

RADIO TEST REPORT
For
Shenzhen Etross telecom Co., ltd.
GSM FIXED WIRELESS TERMINAL
Test Model: SA125
Additional Model No.: 8848

Prepared for : Shenzhen Etross telecom Co., ltd.
Address : 301, Block B, Yuetong Comprehensive Bldg, Meilong Road,
Longhua Town, Bao' an District Shenzhen, Guangdong
Province, China, 518109

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Date of receipt of test sample : September 28, 2017
Number of tested samples : 1
Serial number : Prototype
Date of Test : September 28, 2017~October 21, 2017
Date of Report : October 21, 2017



RADIO TEST REPORT**ETSI EN 301 511 V12.5.1 (2017-03)**

Global System for Mobile communications (GSM); Mobile Stations (MS) equipment; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

Report Reference No. : **LCS170928004AE2**

Date of Issue : October 21, 2017

Testing Laboratory Name : **Shenzhen LCS Compliance Testing Laboratory Ltd.**

Address : 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue,
Bao'an District, Shenzhen, Guangdong, China

Testing Location/ Procedure : Full application of Harmonised standards ☒
Partial application of Harmonised standards ☐
Other standard testing method ☐

Applicant's Name : **Shenzhen Etross telecom Co., Ltd.**

Address : 301, Block B, Yuetong Comprehensive Bldg, Meilong Road,
Longhua Town, Bao' an District Shenzhen, Guangdong
Province, China, 518109

Test Specification

Standard : ETSI EN 301 511 V12.5.1 (2017-03)

Test Report Form No. : LCSEMC-1.0

TRF Originator : Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF : Dated 2017-03

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Test Item Description. : **GSM FIXED WIRELESS TERMINAL**

Trade Mark : smartwares /ETROSS

Test Model : SA125

Ratings : DC 7.4V by Battery(800mAh)
Adapter: Input:100-240VAC, 50/60Hz, 0.2A
Output: 12VDC, 500mA

Result : **Positive**

Compiled by:

Linda He

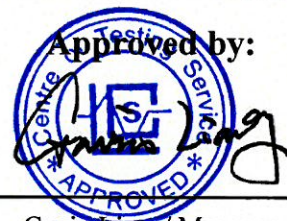
Linda He/ Administrators

Supervised by:

Dick Su

Dick Su/ Technique principal

Approved by:



Gavin Liang/ Manager

RADIO -- TEST REPORT**Test Report No. : LCS170928004AE2**October 21, 2017

Date of issue

Test Model..... : SA125

EUT..... : GSM FIXED WIRELESS TERMINAL

Applicant..... : Shenzhen Etross telecom Co., ltd.Address..... : 301, Block B, Yuetong Comprehensive Bldg, Meilong Road,
Longhua Town, Bao' an District Shenzhen, Guangdong
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Longhua Town, Bao' an District Shenzhen, Guangdong
Province, China, 518109

Telephone..... : /

Fax..... : /

Test Result**Positive**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revision History

Revision	Issue Date	Revisions	Revised By
000	October 21, 2017	Initial Issue	Gavin Liang

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1. GENERAL INFORMATION

1.1. Product Description for Equipment Under Test (EUT)

EUT	GSM FIXED WIRELESS TERMINAL	
Test Model	SA125	
Additional Model	8848	
Model Declaration	PCB board, structure and internal of these model(s) are the same, So no additional models were tested.	
Power Supply	DC 7.4V by Battery(800mAh) Adapter: Input:100-240VAC, 50/60Hz, 0.2A Output: 12VDC, 500mA	
Hardware Version	R2.0	
Software Version	V3.1	
2G		
Support Band	<input checked="" type="checkbox"/> GSM 900 (EU-Band) <input checked="" type="checkbox"/> GSM 850 (U.S.-Band)	<input checked="" type="checkbox"/> DCS 1800 (EU-Band) <input checked="" type="checkbox"/> PCS 1900 (U.S.-Band)
Release Version	R99	
GPRS Class	Class 12	
EGPRS Class	Class 12	
Uplink	GSM 900: 880MHz ~ 915MHz DCS 1800: 1710MHz ~ 1785MHz	
Downlink	GSM 900: 925MHz ~ 960MHz DCS 1800: 1805MHz ~ 1880MHz	
Type Of Modulation	GMSK for GSM/GPRS, GMSK/8PSK for EGPRS	
Antenna Description	External Antenna, 2.5dBi(Max.)	
Power Class	GSM 900: Class 4, DCS 1800: Class 1	

1.2. Support equipment List

Manufacturer	Description	Model	Serial Number	Certificate
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1.3. External I/O

I/O Port Description	Quantity	Cable
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1.4. Objective

Standard Referenced	Standard Title	Standard Version
ETSI EN 301 511	Global System for Mobile communications (GSM); Mobile Stations (MS) equipment; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	V12.5.1 (2017-03)
ETSI TS 151 010-1	Digital cellular telecommunications system (Phase 2+) (GSM); Mobile Station (MS) conformance specification; Part 1: Conformance specification (3GPP TS 51.010-1 version 13.3.0 Release 13)	V13.3.0 (2017-03)

The objective is to determine compliance with ETSI EN 301 511 V12.5.1 (2017-03).

1.5. Test Conditions

Conditions	Temperature	Voltage
Normal	21-25℃	DC 7.4V
Low extreme temperature/low extreme voltage (LT/LV);	-10℃	DC 6.7V
Low extreme temperature/high extreme voltage (LT/HV);	-10℃	DC 8.14V
High extreme temperature/low extreme voltage (HT/LV);	+45℃	DC 6.7V
High extreme temperature/high extreme voltage (HT/HV).	+45℃	DC 8.14V
Note1: For all conditions, the humidity range is:40-75%, the pressure range is 86-106kPa. The High Voltage DC 8.14V and Low Voltage DC 6.7V was declared by manufacturer		

1.6. Description Of Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level in each test mode and channel as below:

Mode	Channel	Frequency(MHz)
GSM 900	975	880.2
	37	897.4
	124	914.8

Mode	Channel	Frequency(MHz)
DCS 1800	512	1710.2
	698	1747.4
	885	1784.8

Operating modes of EUT during test	
Traffic Mode	A communication link is set up with a System Simulator (ss). The Absolute Radio Frequency Channel Number is allocated to the lowest, middle and highest channel during the test for all working frequency bands. The EUT is commanded to operate at maximum transmitting power. A call has been established.
Idle Mode	The EUT is synchronized to SS, and able to respond to paging messages and incoming call. An established call has been released.

1.7. List Of Measuring Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1	X-series USB Peak and Average Power Sensor Aglient	Agilent	U2021XA	MY54080022	2016-10-27	2017-10-26
2	4 CH. Simultaneous Sampling 14 Bits 2MS/s	Agilent	U2531A	MY54080016	2016-10-27	2017-10-26
3	Test Software	Ascentest	AT890-SW	20160630	N/A	N/A
4	RF Control Unit	Ascentest	AT890-RFB	N/A	2017-06-17	2018-06-16
5	ESA-E SERIES SPECTRUM ANALYZER	Agilent	E4407B	MY41440754	2016-11-18	2017-11-17
6	MXA Signal Analyzer	Agilent	N9020A	MY49100040	2017-06-17	2018-06-16
7	SPECTRUM ANALYZER	R&S	FSP	100503	2017-06-17	2018-06-16
8	MXG Vector Signal Generator	Agilent	N5182A	MY47071151	2016-11-18	2017-11-17
9	ESG VECTOR SIGNAL GENERATOR	Agilent	E4438C	MY42081396	2016-11-18	2017-11-17
10	PSG Analog Signal Generator	Agilent	E8257D	MY4520521	2016-11-18	2017-11-17
11	Universal Radio Communication Tester	R&S	CMU 200	105788	2017-06-17	2018-06-16
12	WIDEBAND RADIO COMMUNICATION TESTER	R&S	CMW 500	103818	2017-06-17	2018-06-16
13	RF Control Unit	Tonscend	JS0806-1	N/A	2017-06-17	2018-06-16
14	DC Power Supply	Agilent	E3642A	N/A	2016-11-18	2017-11-17
15	LTE Test Software	Tonscend	JS1120-1	N/A	N/A	N/A
16	Temperature & Humidity Chamber	GUANGZHOU GOGNWEN	GDS-100	70932	2017-10-11	2018-10-10
17	DC Source	CHROMA	62012P-80-60	34782951	2017-10-11	2018-10-10
18	RF Filter	Micro-Tronics	BRC50718	S/N-017	2017-06-17	2018-06-16
19	RF Filter	Micro-Tronics	BRC50719	S/N-011	2017-06-17	2018-06-16
20	RF Filter	Micro-Tronics	BRC50720	S/N-011	2017-06-17	2018-06-16
21	RF Filter	Micro-Tronics	BRC50721	S/N-013	2017-06-17	2018-06-16
22	RF Filter	Micro-Tronics	BRM50702	S/N-195	2017-06-17	2018-06-16
23	Splitter/Combiner	Micro-Tronics	PS2-15	CB11-20	2017-06-17	2018-06-16
24	Splitter/Combiner	Micro-Tronics	CB11-20	N/A	2017-06-17	2018-06-16
25	Attenuator	Micro-Tronics	PAS-8-10	S/N23466	2017-06-17	2018-06-16
26	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2017-06-17	2018-06-16
27	Positioning Controller	MF	MF-7082	/	2017-06-17	2018-06-16
28	EMI Test Software	AUDIX	E3	N/A	2017-06-17	2018-06-16
29	EMI Test Receiver	R&S	ESR 7	101181	2017-06-17	2018-06-16
30	AMPLIFIER	QuieTek	QTK-A2525G	CHM10809065	2016-11-18	2017-11-17
31	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2017-06-23	2018-06-22
32	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2017-05-02	2018-05-01
33	Horn Antenna	EMCO	3115	6741	2017-06-23	2018-06-22
34	RF Cable-R03m	Jye Bao	RG142	CB021	2017-06-17	2018-06-16
35	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	2017-06-17	2018-06-16
36	TEST RECEIVER	R&S	ESCI	101142	2017-06-17	2018-06-16
37	RF Cable-CON	UTIFLEX	3102-26886-4	CB049	2017-06-17	2018-06-16

38	10dB Attenuator	SCHWARZBECK	MTS-IMP136	261115-001-0032	2017-06-17	2018-06-16
39	Artificial Mains	R&S	ENV216	101288	2017-06-17	2018-06-16
40	Power Analyzer Test System	Voltech	PM6000	20000670053	2017-06-17	2018-06-16
41	ESD Simulator	SCHLODER	SESD 230	604035	2017-06-17	2018-06-16
42	RF POWER AMPLIFIER	OPHIR	5225R	1052	2017-03-22	2018-03-21
43	RF POWER AMPLIFIER	OPHIR	5273F	1019	2017-03-24	2018-03-23
44	Stacked Broadband Log Periodic Antenna	SCHWARZBECK	STLP 9128	9128ES-145	2017-04-28	2018-04-27
45	Stacked Mikrowellen Log.-Per Antenna	SCHWARZBECK	STLP 9149	9149-482	2017-04-28	2018-04-27
46	Electric field probe	Narda S.TS./PMM	EP601	611WX70332	2017-02-05	2018-02-05
47	Power Meter	Agilent	E4419B	MY45104493	2017-06-17	2018-06-16
48	Power Sensor	Agilent	E9301H	MY41495234	2017-06-17	2018-06-16
49	Power Sensor	Agilent	E4412A	MY41500229	2017-06-17	2018-06-16
50	Immunity Simulative Generator	EM TEST	UCS500-M4	0101-34	2016-11-18	2017-11-17
51	Simulator	FRANKONIA	CIT-10	A126A1195	2017-06-17	2018-06-16
52	CDN	FRANKONIA	CDN-M2	5100100100	2017-06-17	2018-06-16
53	CDN	FRANKONIA	CDN-M3	0900-11	2017-06-17	2018-06-16
54	Attenuator	FRANKONIA	ATT6	0010222A	2017-06-17	2018-06-16
55	Infuse tongs	EM TEST	EM-Clamp	0513A031201	2017-06-17	2018-06-16
56	Voltage dips and up generator	3CTEST	VDG-1105G	EC0171014	2017-06-17	2018-06-16

Note: All equipment is calibrated through GUANGZHOU LISAI CALIBRATION AND TEST CO.,LTD.

1.8. Measurement Uncertainty (95% confidence levels, k=2)

Test Item		Uncertainty
Radio Frequency	:	0.9×10^{-4}
Total RF Power, Conducted	:	1.0 dB
RF Power Density, Conducted	:	1.8 dB
Spurious Emissions, Conducted	:	1.8 dB
All Emissions, Radiated	:	3.1 dB
Temperature	:	0.5 °C
Humidity	:	1 %
DC And Low Frequency Voltages	:	1 %

1.9. Description of Test Facility

FCC Registration Number. is 254912.
Industry Canada Registration Number. is 9642A-1.
ESMD Registration Number. is ARCB0108.
UL Registration Number. is 100571-492.
TUV SUD Registration Number. is SCN1081.
TUV RH Registration Number. is UA 50296516-001.
NVLAP Registration Code is 600167-0.

2. SYSTEM TEST CONFIGURATION

2.1. Justification

N/A

2.2. EUT Exercise Software

N/A

2.3. Special Accessories

The special accessories were supplied by Shenzhen LCS Compliance Testing Laboratory Ltd.

2.4. Block Diagram/Schematics

Please refer to the related document.

2.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

2.6. Test Setup

Please refer to the test setup photo.

3. SUMMARY OF TEST RESULTS

Reference Clause No. (ETSI TS 151 010-1)	Reference Clause No. (ETSI EN 301 511)	Description of Test Items	GSM 900	DCS 1800
			Result	Result
13.1	4.2.1	Transmitter - Frequency error and phase error		
		NT / NV	Pass	Pass
		LT / LV	Pass	Pass
		LT / HV	Pass	Pass
		HT / LV	Pass	Pass
		HT / HV	Pass	Pass
		Vibration X-axis	Pass	Pass
		Vibration Y-axis	Pass	Pass
		Vibration Z-axis	Pass	Pass
13.2	4.2.2	Transmitter - Frequency error under multipath and interference conditions		
		NT / NV	Pass	Pass
		LT / LV	Pass	Pass
		LT / HV	Pass	Pass
		HT / LV	Pass	Pass
		HT / HV	Pass	Pass
13.16.1	4.2.4	Frequency error and phase error in GPRS multislot configuration		
		NT / NV	Pass	Pass
		LT / LV	Pass	Pass
		LT / HV	Pass	Pass
		HT / LV	Pass	Pass
		HT / HV	Pass	Pass
		Vibration X-axis	Pass	Pass
		Vibration Y-axis	Pass	Pass
13.3	4.2.5	Transmitter output power and burst timing		
		NT / NV	Pass	Pass
		LT / LV	Pass	Pass
		LT / HV	Pass	Pass
		HT / LV	Pass	Pass
		HT / HV	Pass	Pass
13.4	4.2.6	Transmitter - Output RF spectrum		
		NT / NV	Pass	Pass
		LT / LV	Pass	Pass
		LT / HV	Pass	Pass
		HT / LV	Pass	Pass
		HT / HV	Pass	Pass
13.16.2	4.2.10	Transmitter output power in GPRS multislot configuration		
		NT / NV	Pass	Pass
		LT / LV	Pass	Pass
		LT / HV	Pass	Pass
		HT / LV	Pass	Pass
		HT / HV	Pass	Pass

13.16.3	4.2.11	Output RF spectrum in GPRS multislot configuration		
		NT / NV	Pass	Pass
		LT / LV	Pass	Pass
		LT / HV	Pass	Pass
		HT / LV	Pass	Pass
		HT / HV	Pass	Pass
12.1.1	4.2.12	Conducted spurious emissions - MS allocated a channel		
		NT / NV	Pass	Pass
		NT / LV	Pass	Pass
		NT / HV	Pass	Pass
12.1.2	4.2.13	Conducted spurious emissions - MS in idle mode		
		NT / NV	Pass	Pass
		NT / LV	Pass	Pass
		NT / HV	Pass	Pass
12.2.1	4.2.16	Radiated spurious emissions - MS allocated a channel		
		NT / NV	Pass	Pass
		NT / LV	Pass	Pass
		NT / HV	Pass	Pass
12.2.2	4.2.17	Radiated spurious emissions - MS in idle mode		
		NT / NV	Pass	Pass
		NT / LV	Pass	Pass
		NT / HV	Pass	Pass
14.7.1	4.2.20	Receiver Blocking and spurious response - speech channels		
		NT / NV	Pass	Pass
13.17.1	4.2.22	Frequency error and Modulation accuracy in EGPRS Configuration		
		NT / NV	Pass	Pass
		LT / LV	Pass	Pass
		LT / HV	Pass	Pass
		HT / LV	Pass	Pass
		HT / HV	Pass	Pass
13.17.2	4.2.23	Frequency error under multipath and interference conditions in EGPRS Configuration		
		NT / NV	Pass	Pass
		LT / LV	Pass	Pass
		LT / HV	Pass	Pass
		HT / LV	Pass	Pass
		HT / HV	Pass	Pass
13.17.3	4.2.24	EGPRS Transmitter output power		
		NT / NV	Pass	Pass
		LT / LV	Pass	Pass
		LT / HV	Pass	Pass
		HT / LV	Pass	Pass
		HT / HV	Pass	Pass
13.17.4	4.2.25	Output RF spectrum in EGPRS configuration		
		NT / NV	Pass	Pass
		LT / LV	Pass	Pass

		LT / HV	Pass	Pass
		HT / LV	Pass	Pass
		HT / HV	Pass	Pass
14.18.5	4.2.26	Blocking and spurious response in EGPRS configuration		
		NT / NV	Pass	Pass

***Note:

Result: Describes test result of Test Case.

Pass: Test Case passed on specified conformance test platform.

NT: Normal temperature - 25°C

NV: Normal voltage. - DC 7.4V

HT: High temperature - +45°C

HV: High voltage - DC 8.14V

LT: Low temperature - -10°C

LV: Low voltage - DC 6.7V

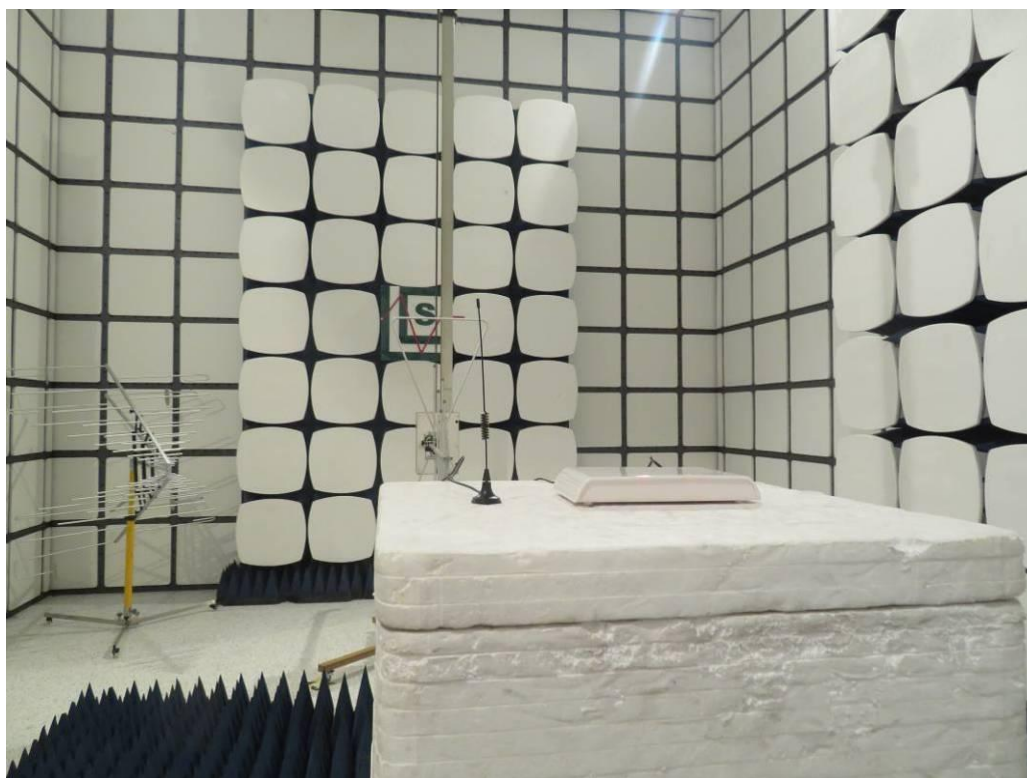
Vibration X-axis/ Y-axis/ Z-axis: Vibration test condition for X/Y/Z axis.

N/A: Not applicable.

—: Not test.

The EUT support EGPRS downlink only.

4. PHOTOGRAPHS OF TEST SETUP



Spurious Emission below 1GHz



Spurious Emission above 1GHz

Annex A

Transmitter output power and burst timing(Worst Case)

Mode: GSM 900 , Low channel CH 975:880.2MHz						
Power Control level	Output power(dBm)					Conclusion
	Normal	L.V. L.T	L.V. H.T.	H.V L.T	H.V. H.T	
5	32.86	32.84	32.87	32.91	32.84	PASS
6	31.11	31.18	31.27	31.36	31.38	PASS
7	28.97	29.05	29.03	29.00	28.93	PASS
8	27.07	27.03	27.02	27.09	27.10	PASS
9	25.12	25.07	25.13	25.05	25.01	PASS
10	22.99	23.02	23.06	23.01	22.98	PASS
11	21.01	20.98	20.90	20.90	20.89	PASS
12	19.08	19.02	18.95	18.90	18.98	PASS
13	17.08	17.09	17.06	17.15	17.11	PASS
14	14.93	14.85	14.91	14.89	14.85	PASS
15	13.12	13.12	13.09	13.02	12.97	PASS
16	11.01	10.93	10.94	10.84	10.76	PASS
17	8.92	8.89	8.96	9.01	9.06	PASS
18	6.91	6.96	6.88	6.79	6.82	PASS
19	5.04	5.10	5.09	5.11	5.03	PASS

Mode: GSM 900 , middle channel CH 37:897.4MHz						
Power Control level	Output power(dBm)					Conclusion
	Normal	L.V. L.T	L.V. H.T.	H.V L.T	H.V. H.T	
5	32.79	32.75	32.65	32.67	32.58	PASS
6	31.08	31.13	31.07	31.04	31.09	PASS
7	28.83	28.83	28.83	28.83	28.88	PASS
8	27.01	26.93	26.90	26.89	26.89	PASS
9	24.94	24.94	24.89	24.81	24.82	PASS
10	23.04	23.13	23.17	23.08	23.07	PASS
11	21.00	21.05	21.14	21.16	21.06	PASS
12	19.04	18.96	18.92	18.88	18.79	PASS
13	16.96	17.00	16.96	16.97	16.89	PASS
14	14.97	14.93	14.99	15.09	15.09	PASS
15	13.02	13.01	13.08	13.13	13.08	PASS
16	11.10	11.02	11.04	10.96	11.05	PASS
17	8.96	9.00	8.93	8.88	8.81	PASS
18	6.99	6.97	6.95	7.01	7.00	PASS
19	5.14	5.15	5.06	5.11	5.18	PASS

Mode: GSM 900 , High channel CH 124:914.8MHz

Power Control level	Output power(dBm)					Conclusion
	Normal	L.V. L.T	L.V. H.T.	H.V L.T	H.V. H.T	
5	32.71	32.78	32.83	32.91	32.87	PASS
6	30.89	30.89	30.94	31.03	31.07	PASS
7	29.16	29.07	29.01	28.94	28.88	PASS
8	26.85	26.87	26.94	27.03	26.93	PASS
9	24.98	24.98	25.04	25.12	25.13	PASS
10	23.06	23.05	22.96	23.03	22.98	PASS
11	21.02	20.96	20.98	20.97	20.93	PASS
12	18.99	18.93	18.85	18.93	18.99	PASS
13	16.99	17.07	17.07	17.09	17.10	PASS
14	14.96	15.02	15.02	14.95	14.90	PASS
15	13.19	13.29	13.22	13.15	13.22	PASS
16	10.94	10.89	10.92	10.89	10.89	PASS
17	9.04	9.03	9.01	8.93	8.98	PASS
18	6.90	6.87	6.79	6.84	6.93	PASS
19	5.28	5.30	5.29	5.31	5.40	PASS

Mode: DCS1800, Low channel CH 512:1710.2MHz

Power Control level	Output power(dBm)					Conclusion
	Normal	L.V. L.T	L.V. H.T.	H.V L.T	H.V. H.T	
0	29.83	29.87	29.87	29.87	29.85	PASS
1	27.96	27.87	27.89	27.96	27.89	PASS
2	26.02	26.07	26.12	26.16	26.11	PASS
3	23.91	23.92	23.85	23.83	23.90	PASS
4	22.09	22.18	22.09	22.04	21.99	PASS
5	19.94	19.98	19.90	19.81	19.91	PASS
6	17.99	18.01	17.98	17.95	17.89	PASS
7	16.09	16.13	16.19	16.14	16.06	PASS
8	14.07	13.99	13.91	13.86	13.84	PASS
9	12.07	12.06	12.03	12.10	12.20	PASS
10	10.01	9.93	9.96	10.00	9.97	PASS
11	7.84	7.75	7.80	7.85	7.89	PASS
12	6.02	6.05	6.12	6.08	6.01	PASS
13	3.95	3.94	4.00	4.00	4.07	PASS
14	2.08	2.12	2.05	1.98	2.01	PASS
15	-0.06	-0.03	-0.11	-0.15	-0.11	PASS

Mode: DCS1800, middle channel CH 698:1747.4MHz

Power Control level	Output power(dBm)					Conclusion
	Normal	L.V. L.T	L.V. H.T.	H.V L.T	H.V. H.T	
0	29.67	29.63	29.68	29.66	29.63	PASS
1	28.01	28.01	28.07	28.03	28.08	PASS
2	25.97	25.94	25.89	25.87	25.78	PASS
3	24.00	24.01	24.04	24.03	24.09	PASS
4	22.02	21.92	21.96	22.06	22.02	PASS
5	19.97	20.02	19.98	19.90	19.88	PASS
6	18.06	18.02	18.05	18.15	18.16	PASS
7	16.00	16.09	16.17	16.12	16.16	PASS
8	14.24	14.32	14.35	14.25	14.16	PASS
9	12.15	12.11	12.15	12.10	12.17	PASS
10	9.82	9.84	9.78	9.77	9.67	PASS
11	8.19	8.27	8.27	8.29	8.25	PASS
12	6.03	6.08	6.06	6.01	6.08	PASS
13	3.95	3.98	3.90	3.86	3.89	PASS
14	2.10	2.01	2.06	2.01	1.92	PASS
15	-0.01	0.08	0.05	0.01	0.06	PASS

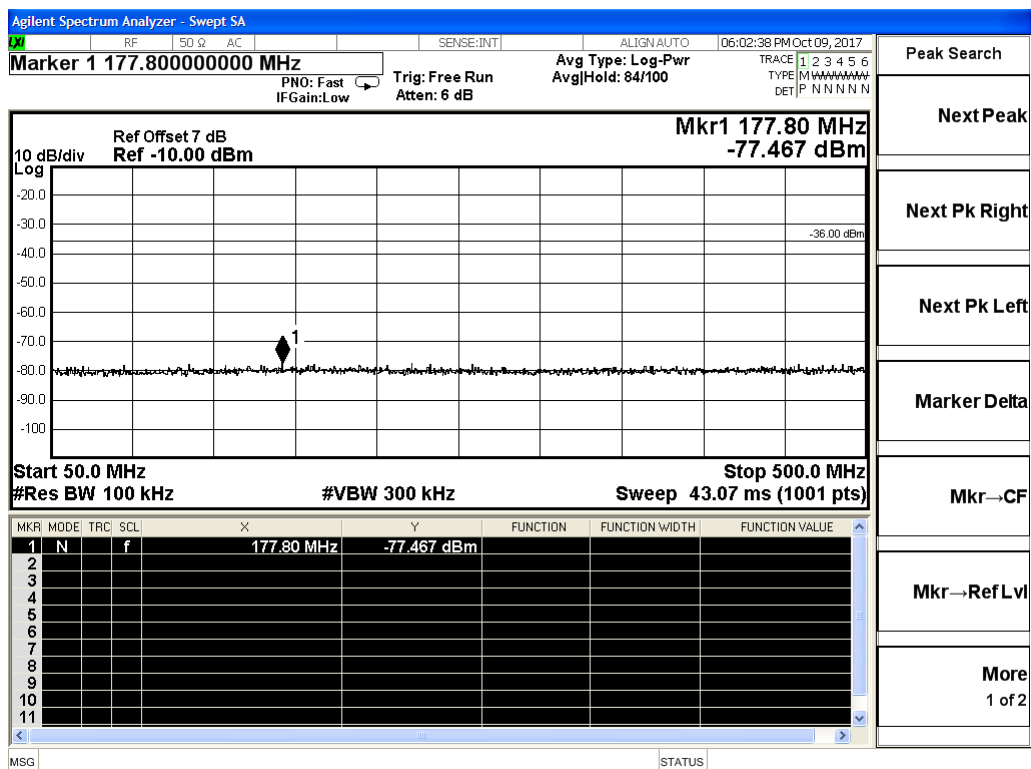
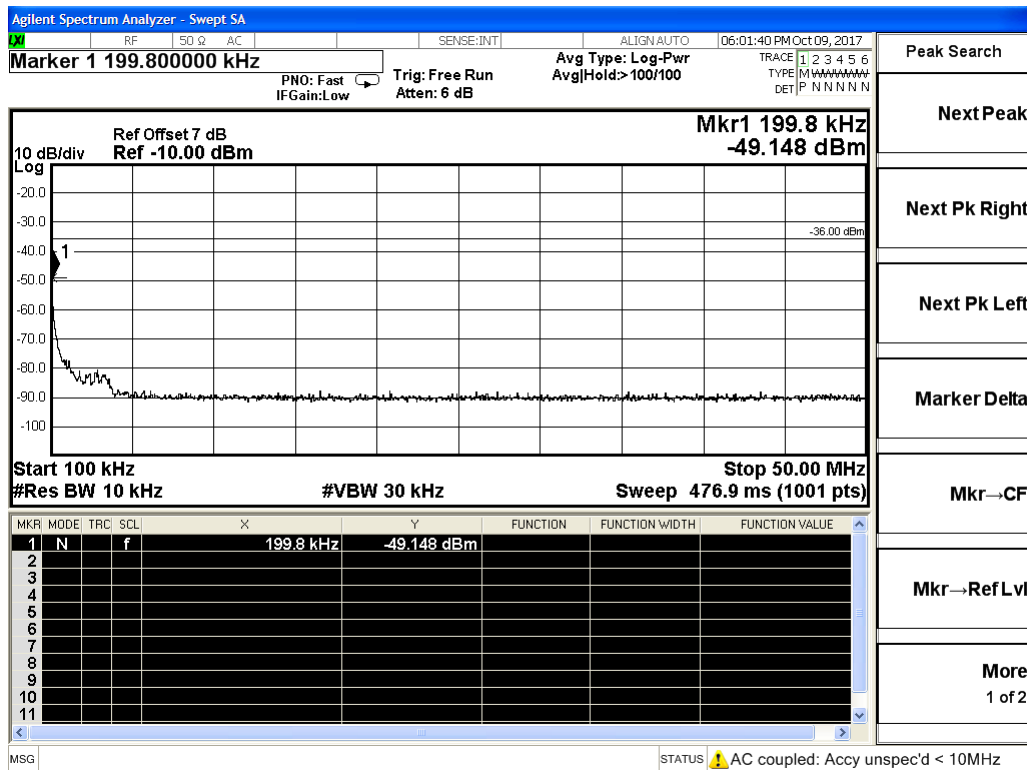
Mode: DCS1800, high channel CH 885:1784.8MHz

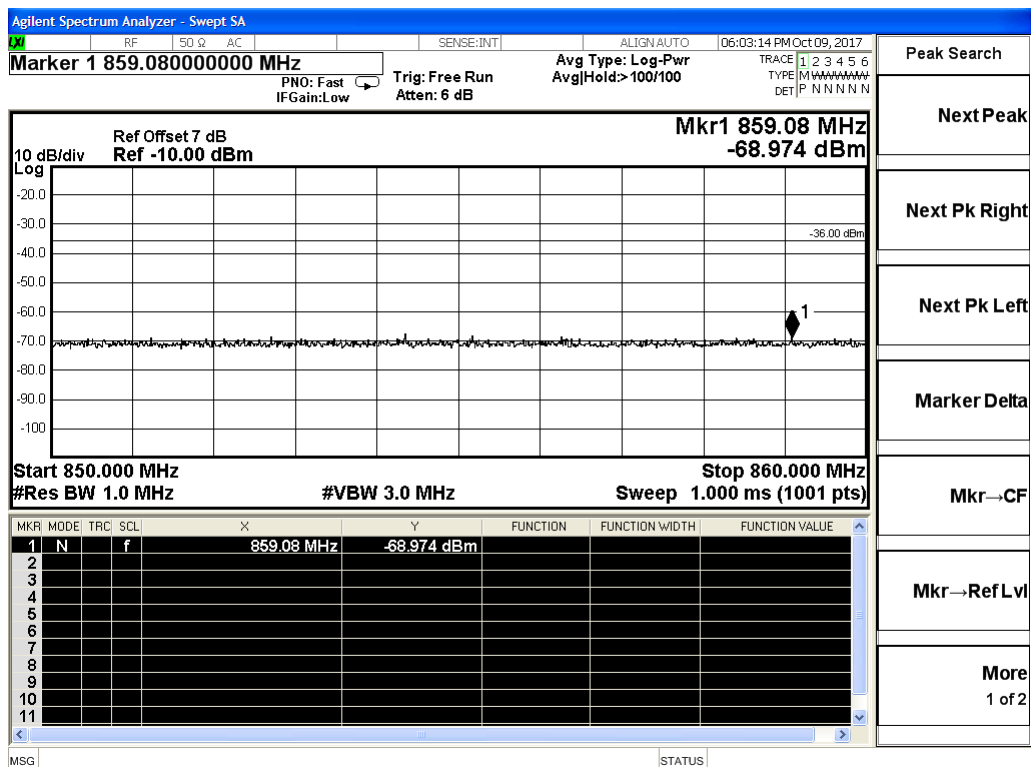
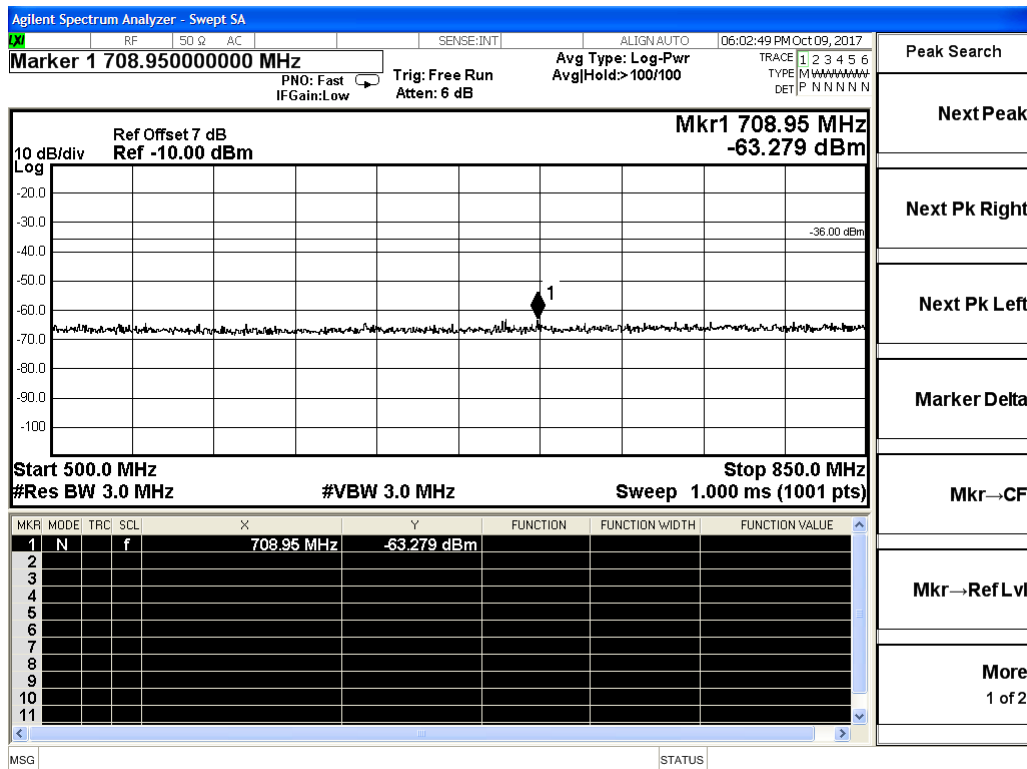
Power Control level	Output power(dBm)					Conclusion
	Normal	L.V. L.T	L.V. H.T.	H.V L.T	H.V. H.T	
0	29.96	29.88	29.79	29.71	29.81	PASS
1	27.82	27.92	28.00	27.95	28.04	PASS
2	25.89	25.81	25.80	25.74	25.72	PASS
3	24.03	23.97	24.02	24.02	23.97	PASS
4	22.08	21.99	22.08	21.98	22.07	PASS
5	19.84	19.93	19.94	19.89	19.79	PASS
6	17.90	17.90	17.88	17.97	17.95	PASS
7	16.11	16.10	16.18	16.16	16.18	PASS
8	13.91	13.98	13.93	13.92	13.94	PASS
9	11.81	11.90	11.93	11.88	11.94	PASS
10	9.83	9.88	9.85	9.90	9.83	PASS
11	8.08	8.02	8.10	8.11	8.16	PASS
12	5.95	5.86	5.91	5.97	5.93	PASS
13	4.05	4.04	4.11	4.13	4.04	PASS
14	1.92	2.01	1.92	1.96	1.96	PASS
15	0.16	0.18	0.19	0.14	0.20	PASS

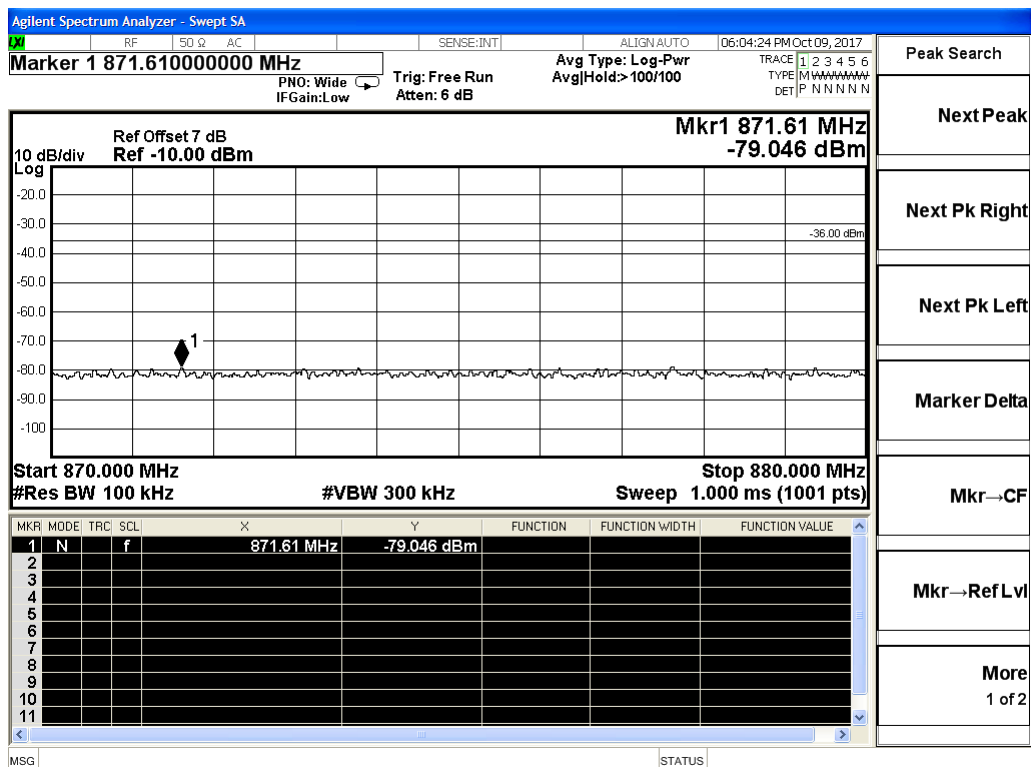
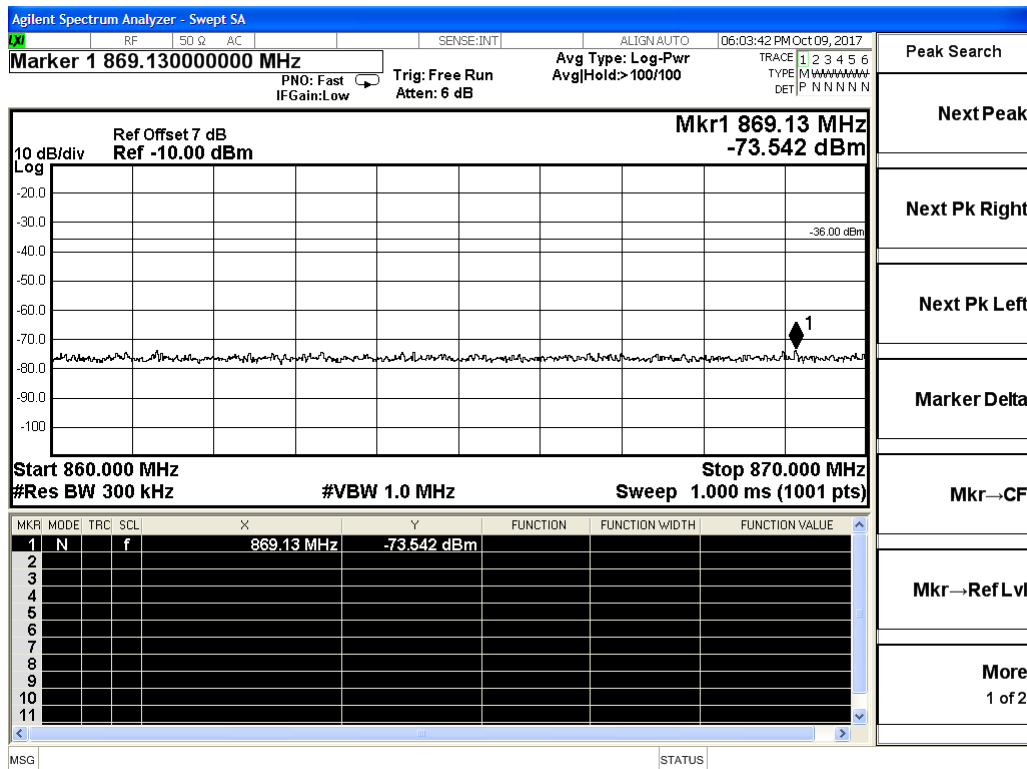
Transmitter spurious emissions

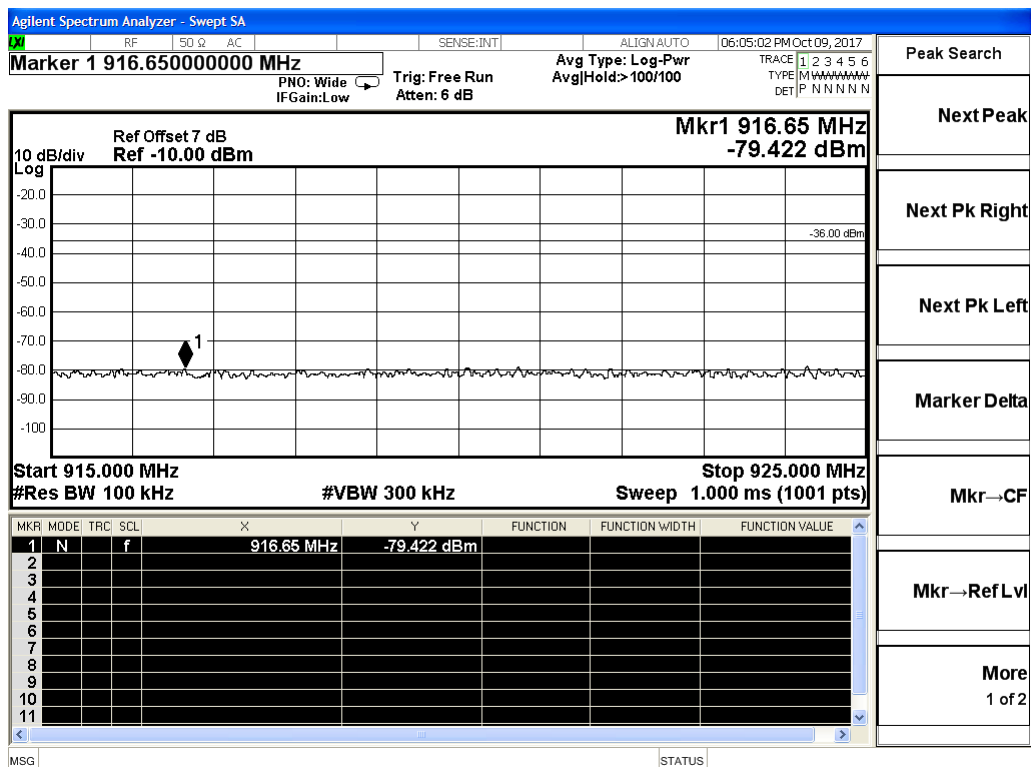
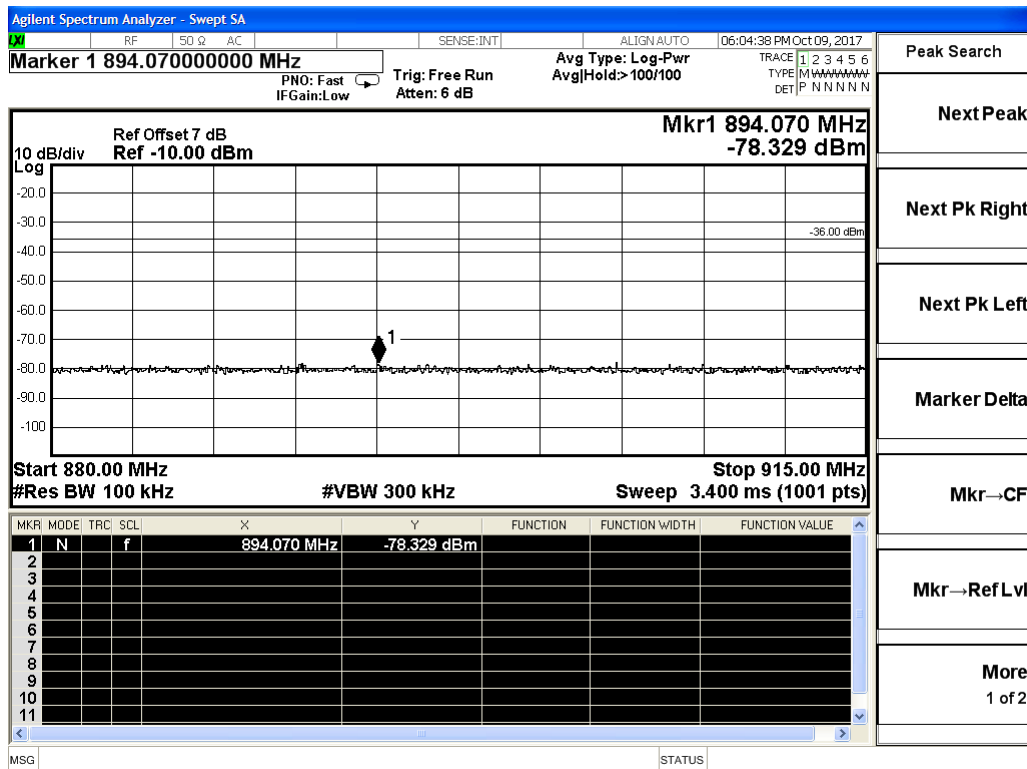
Conducted spurious emissions - MS allocated a channel(Worst Case)

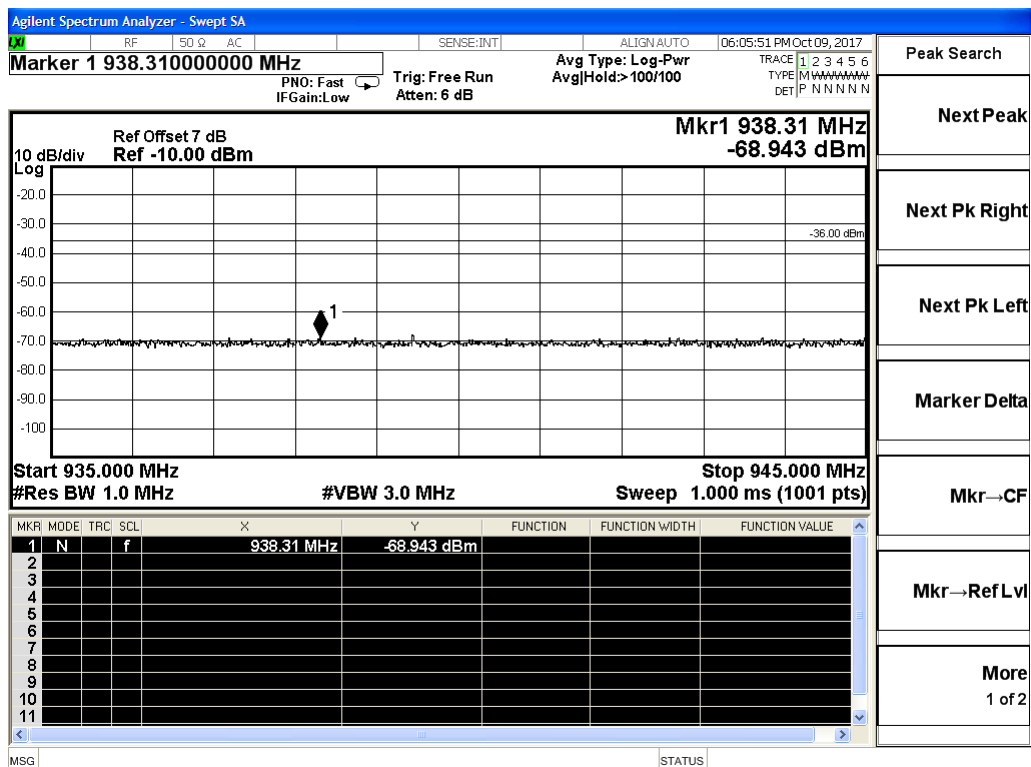
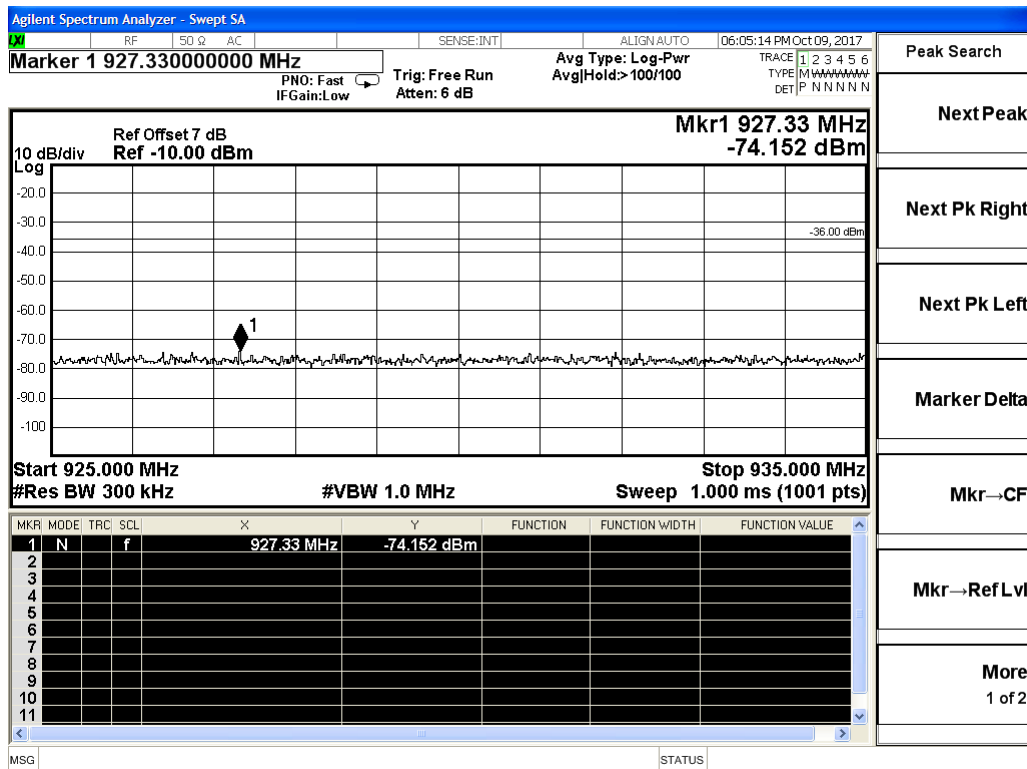
GSM 900 Normal condition Middle channel original test data

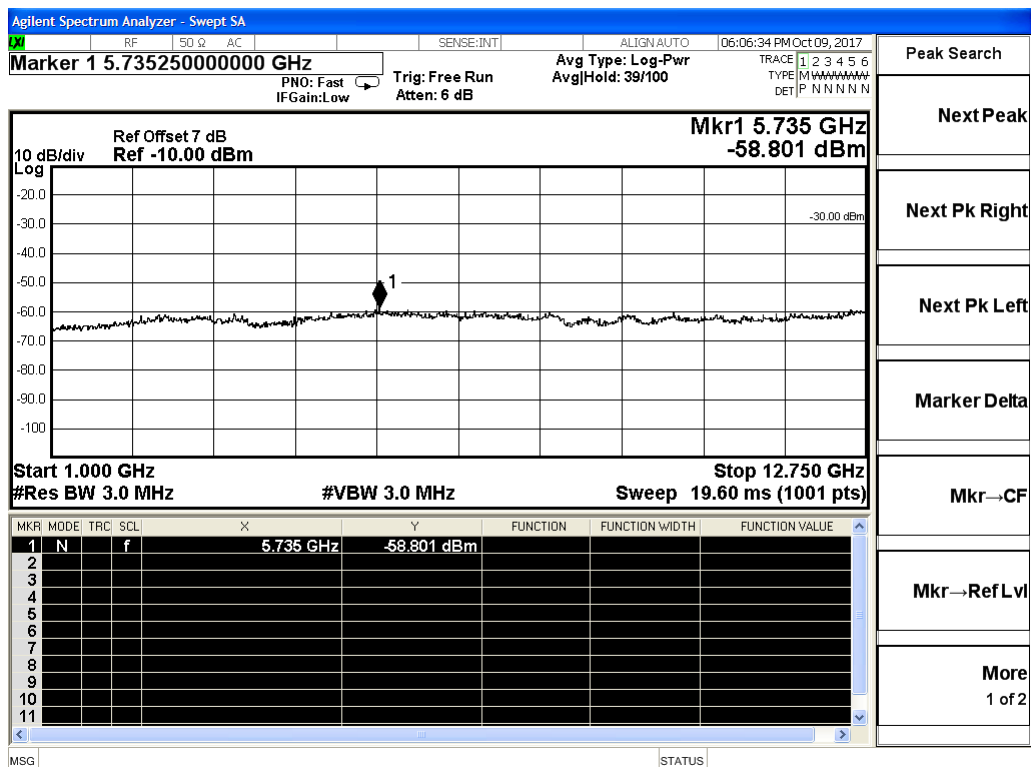
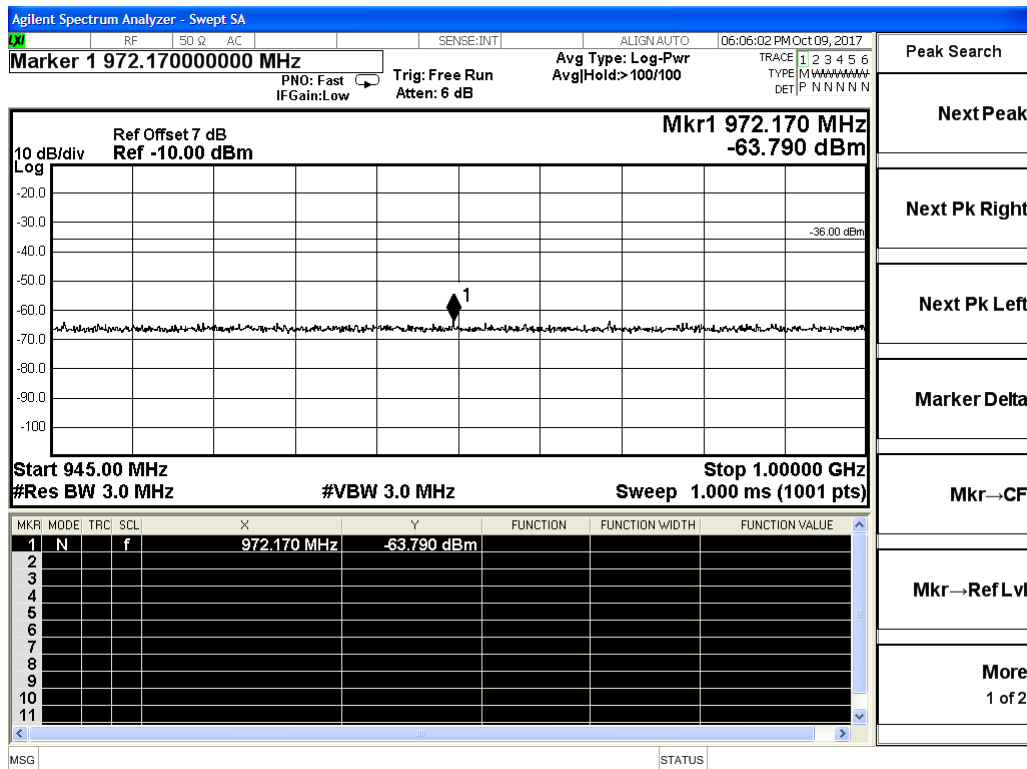




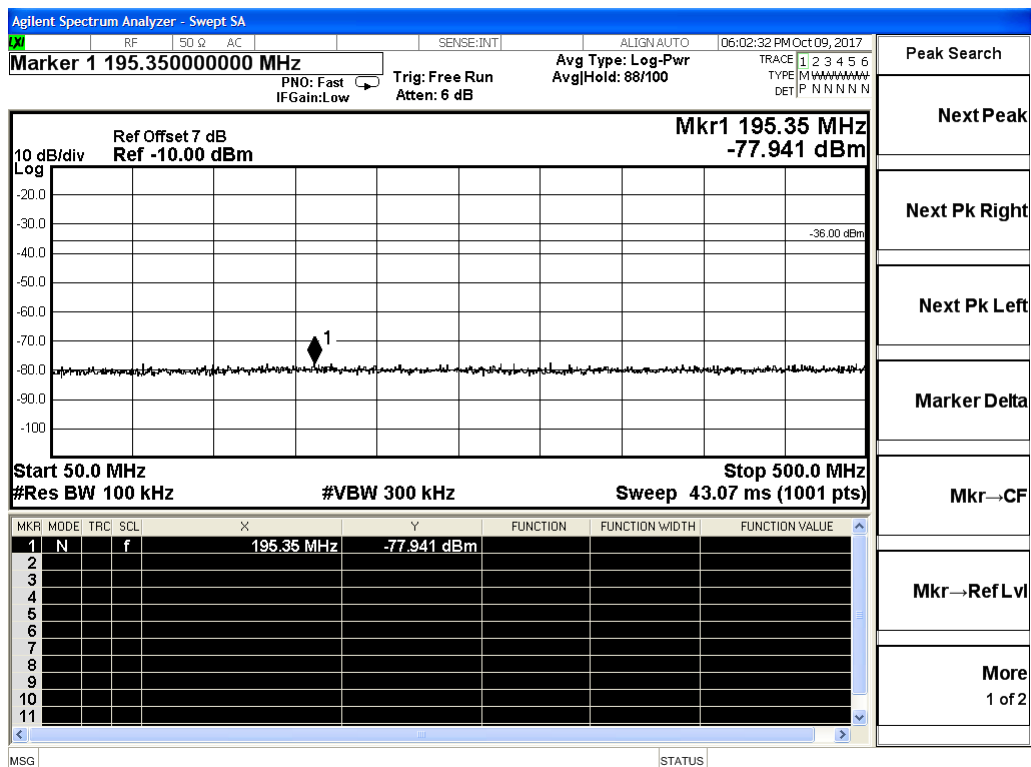
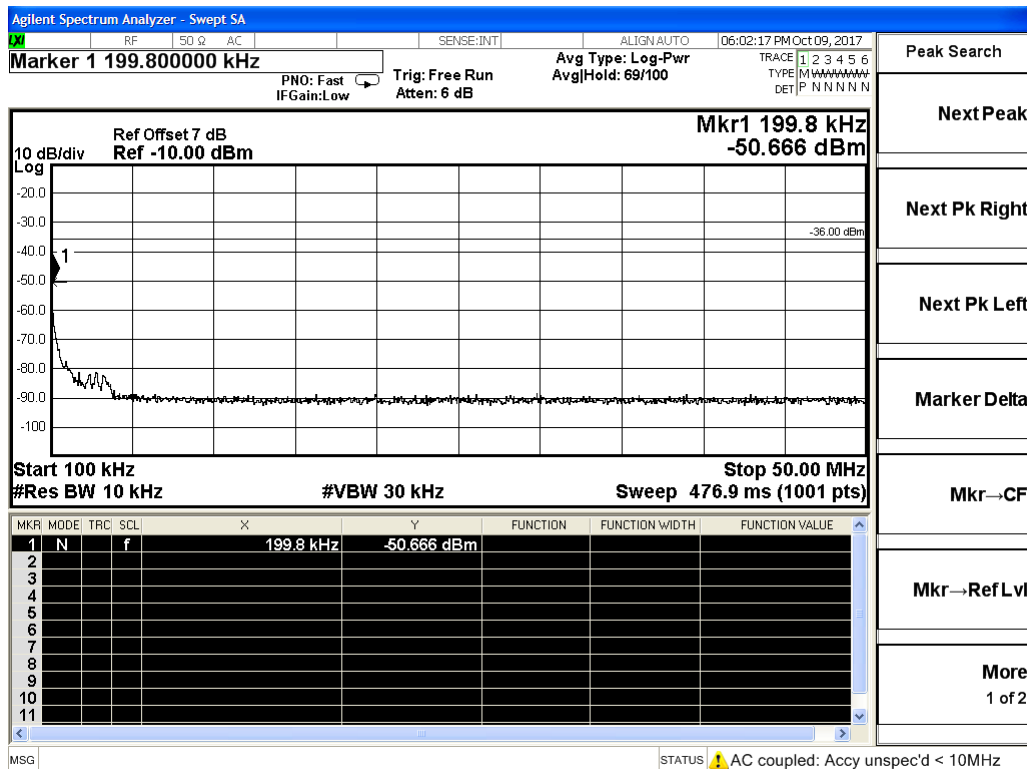


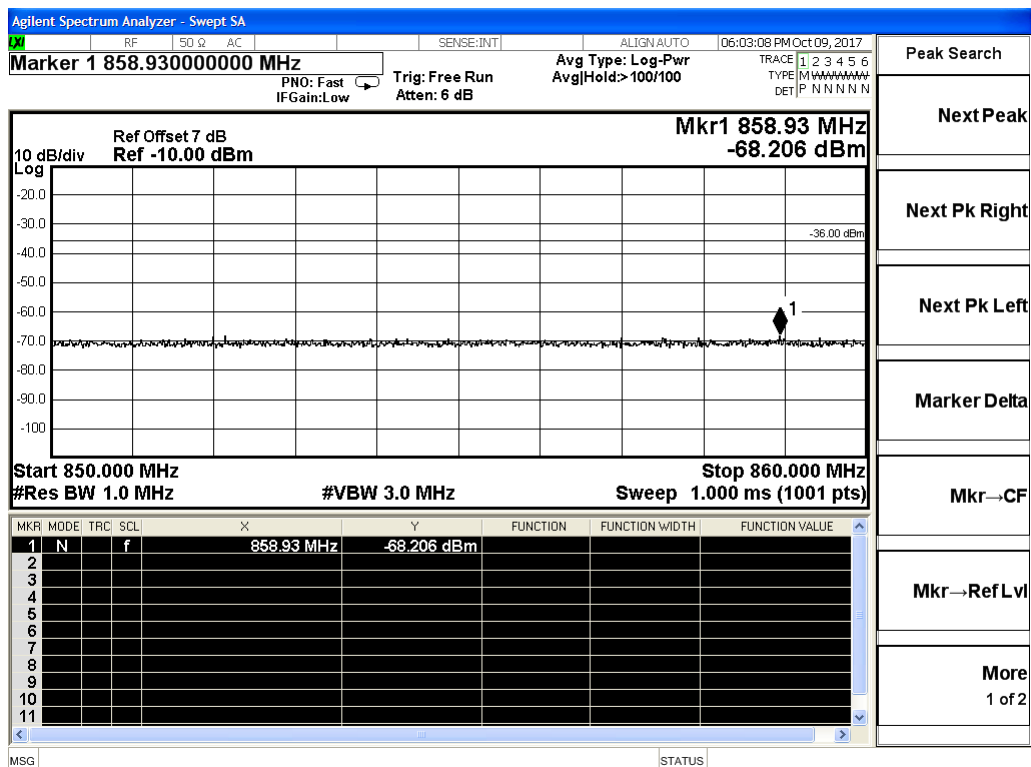
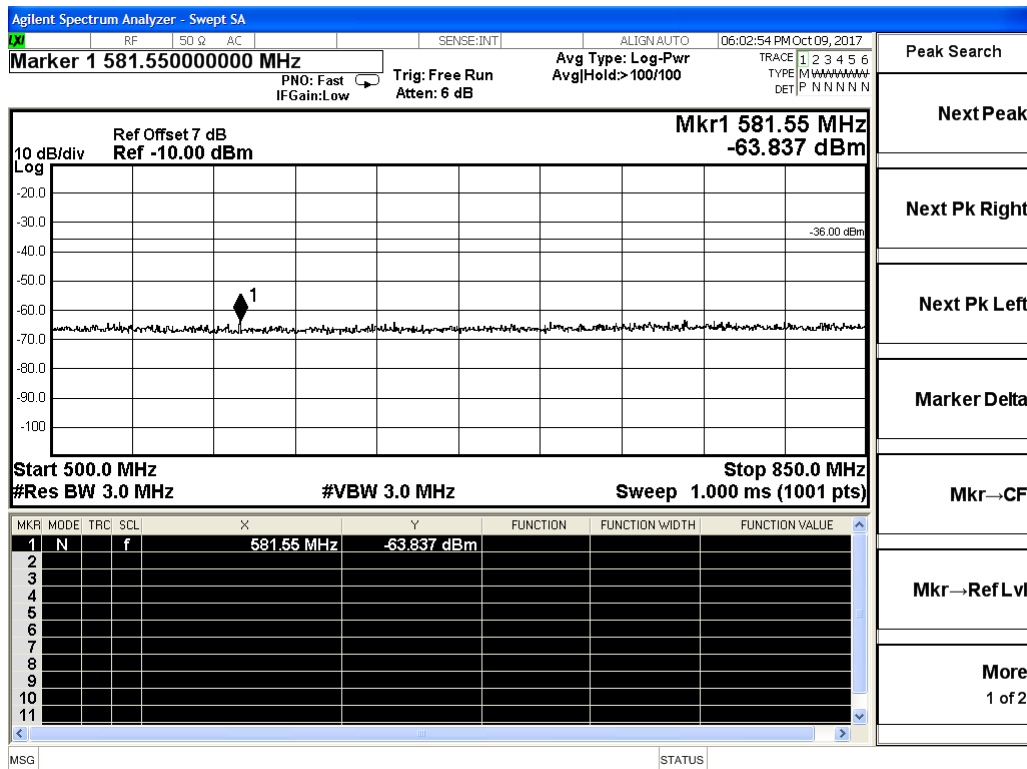


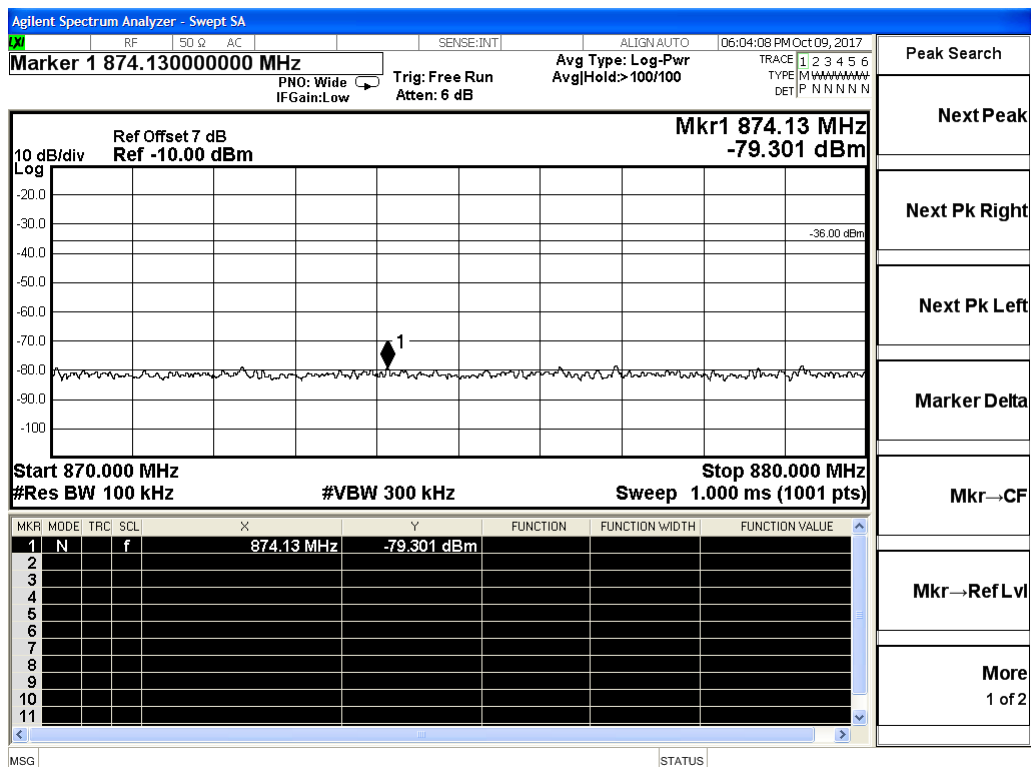
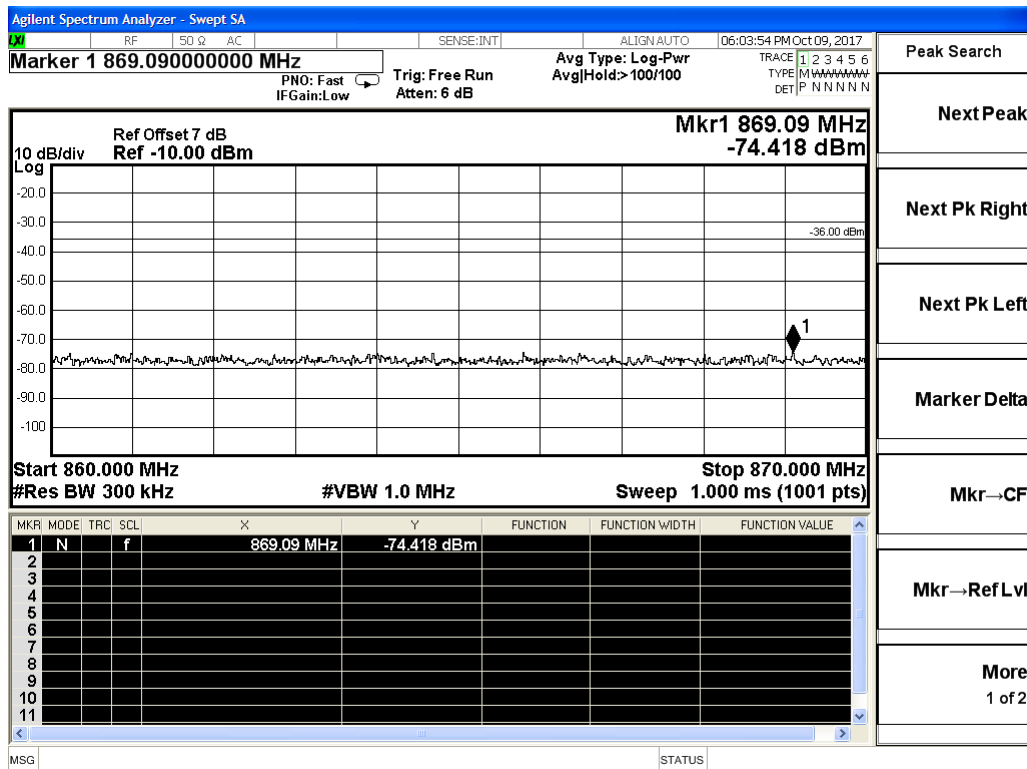


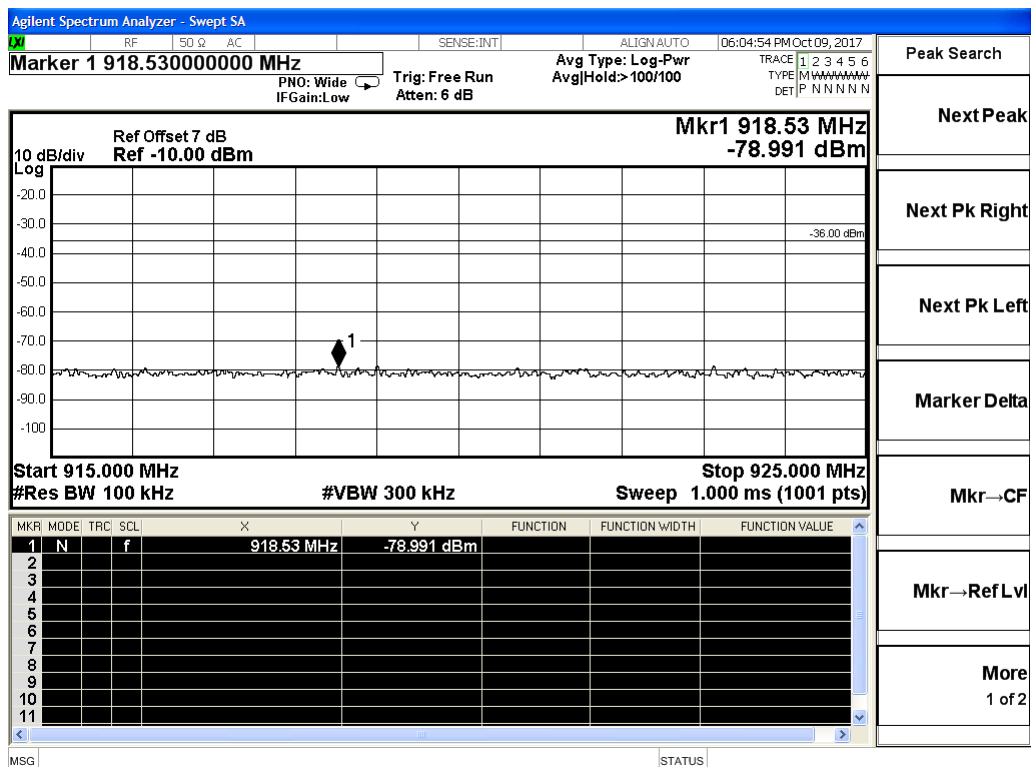
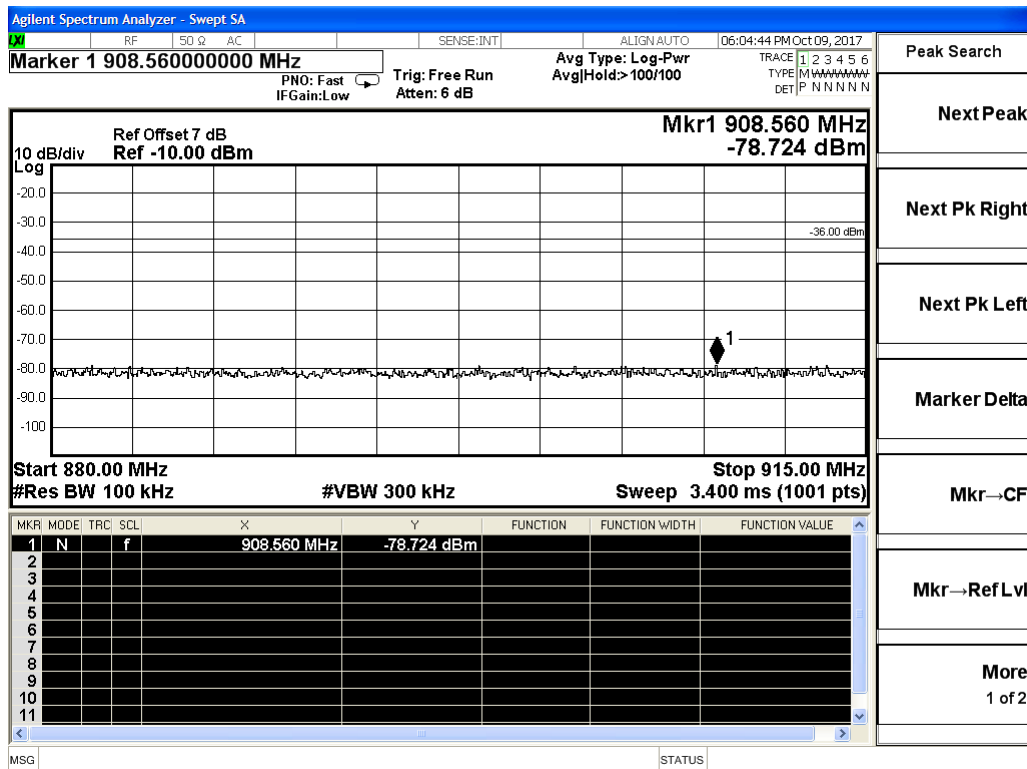


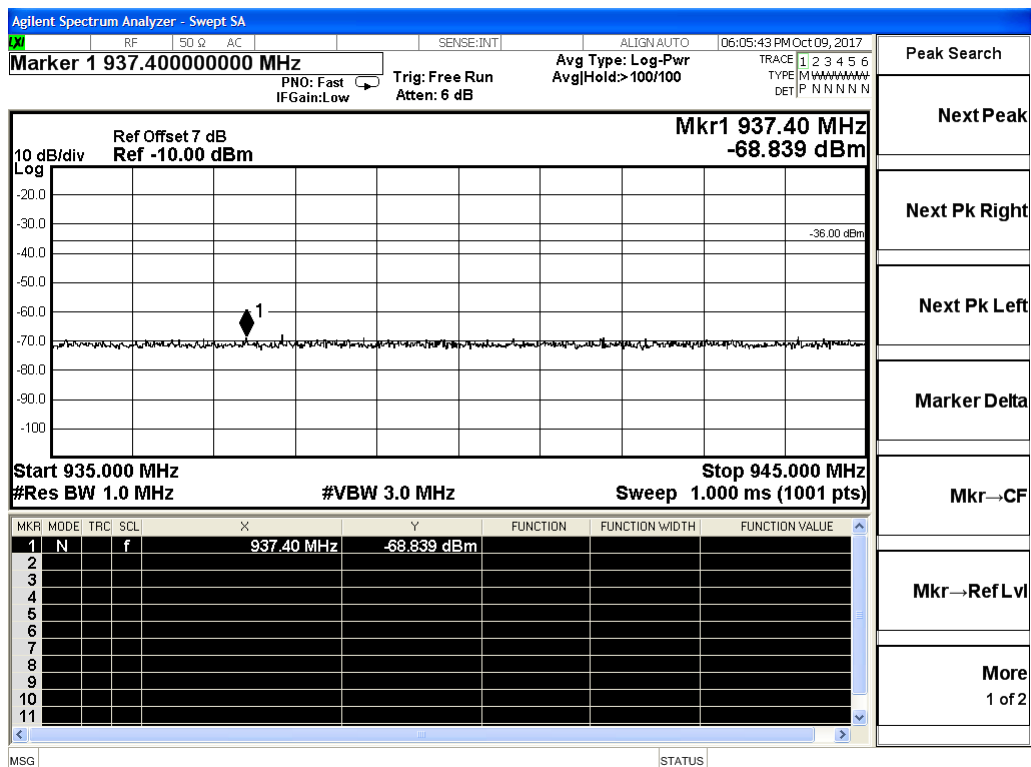
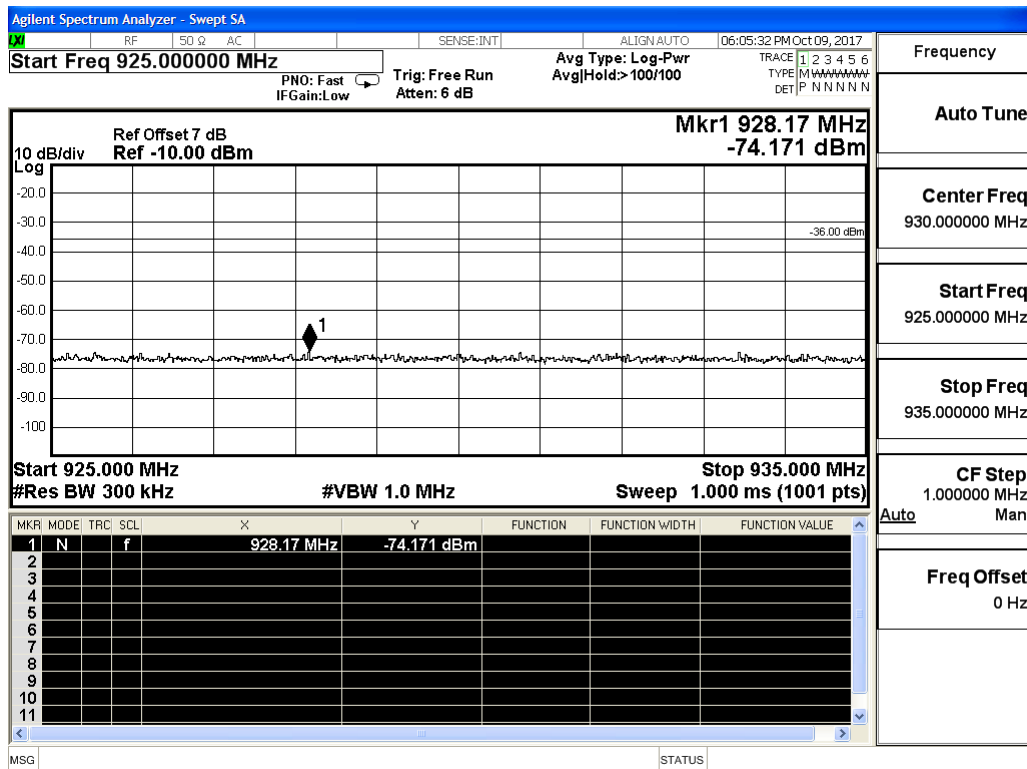
GSM 900 Extreme conditions in Middle channel

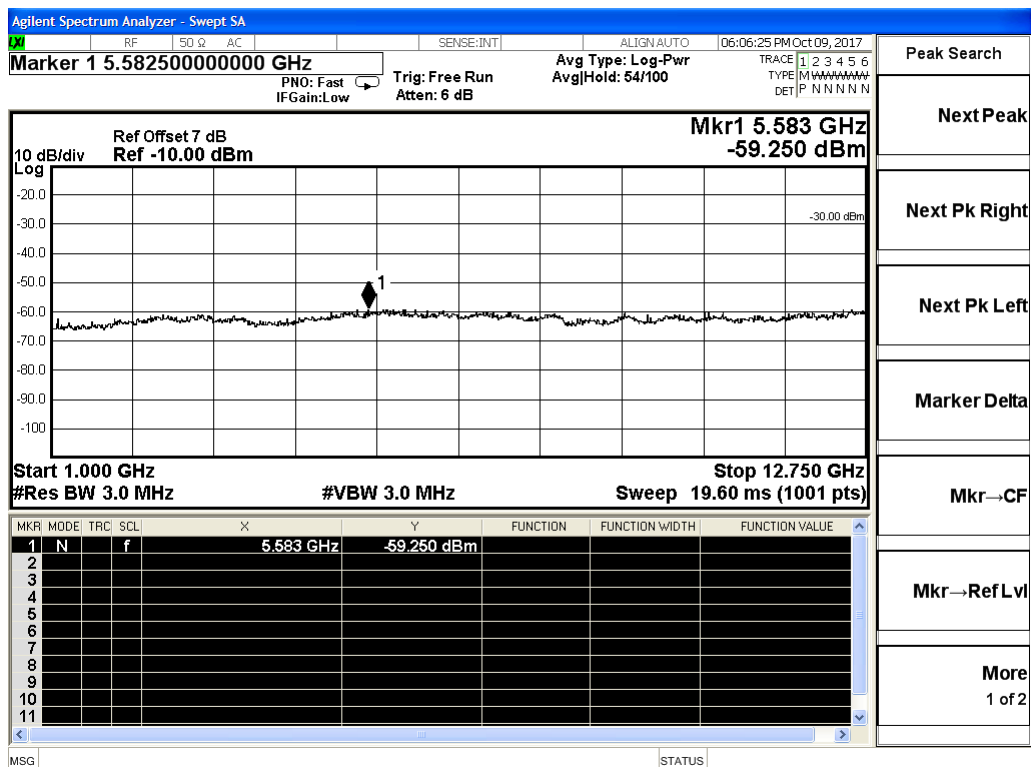
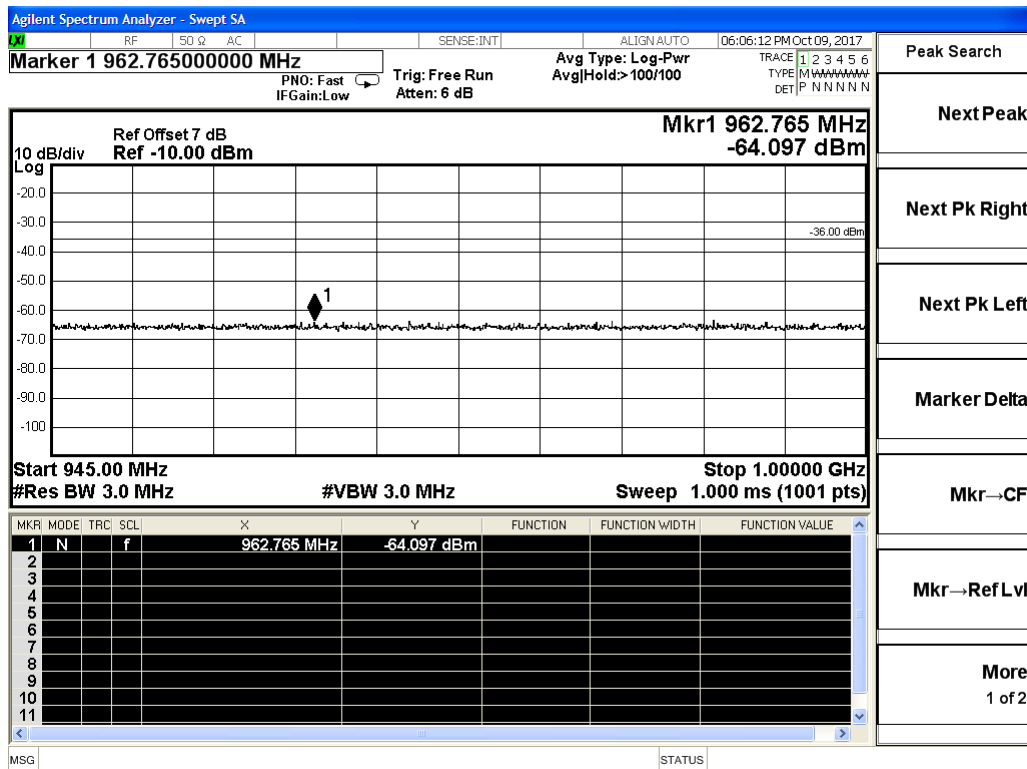




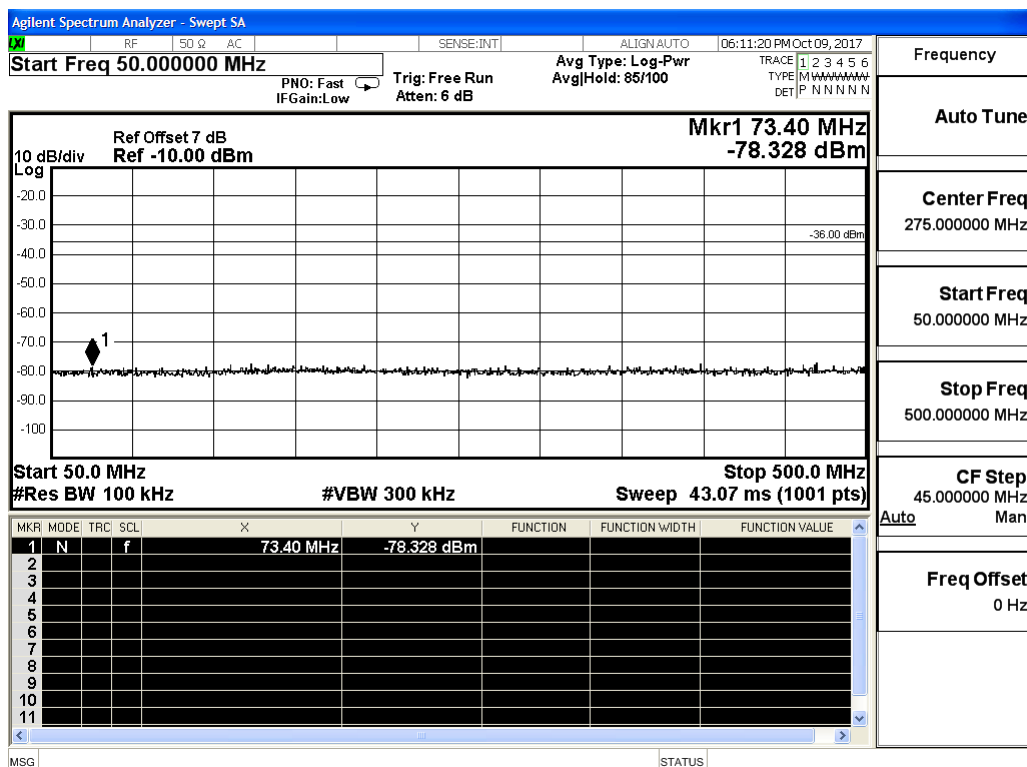
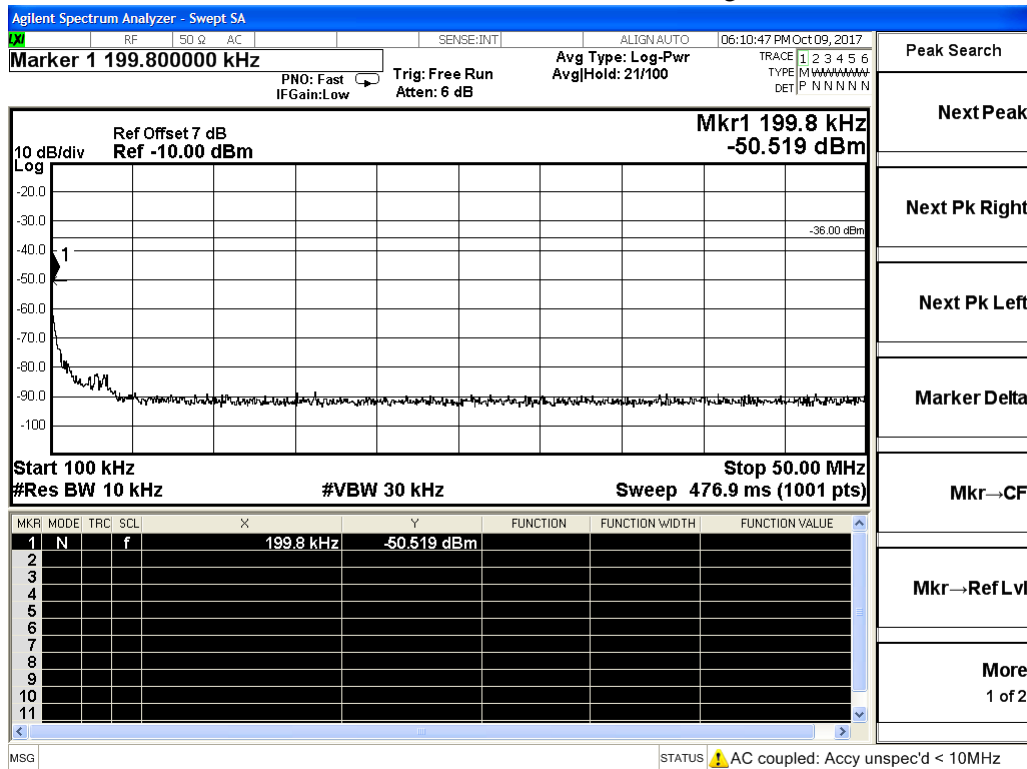


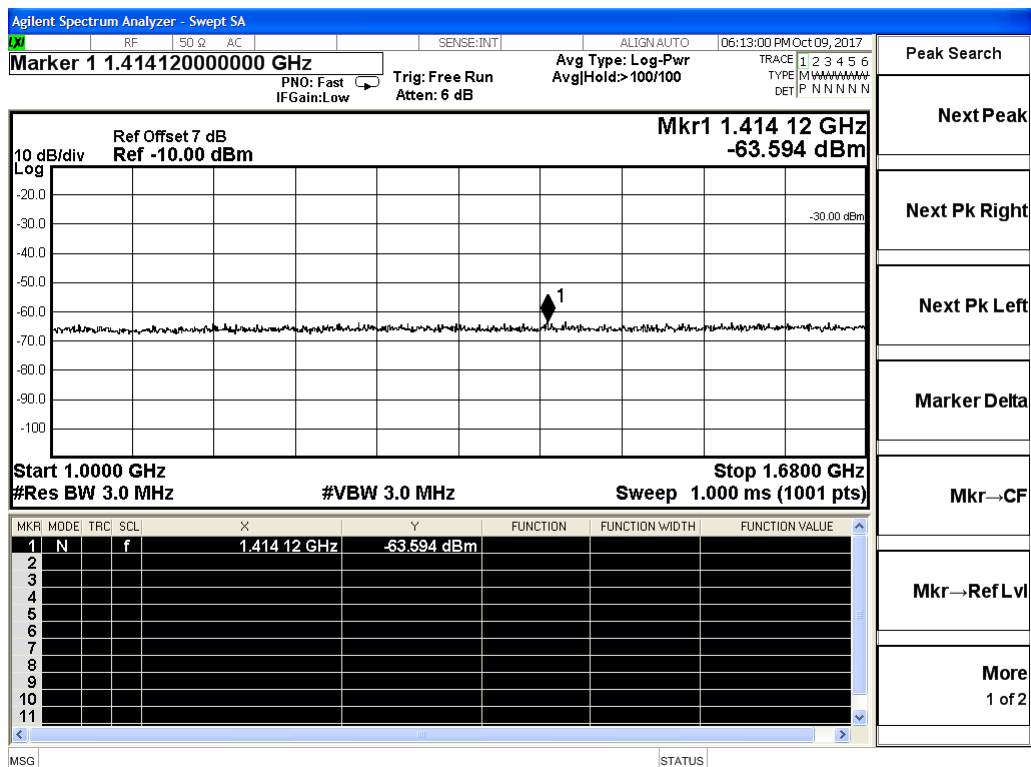
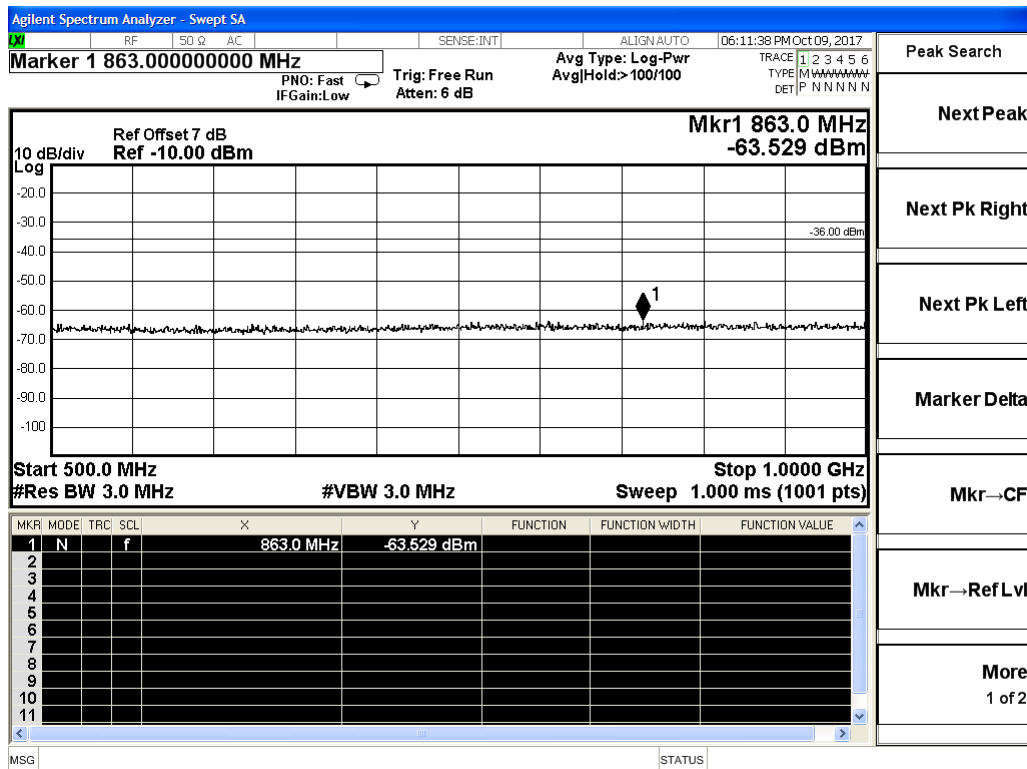


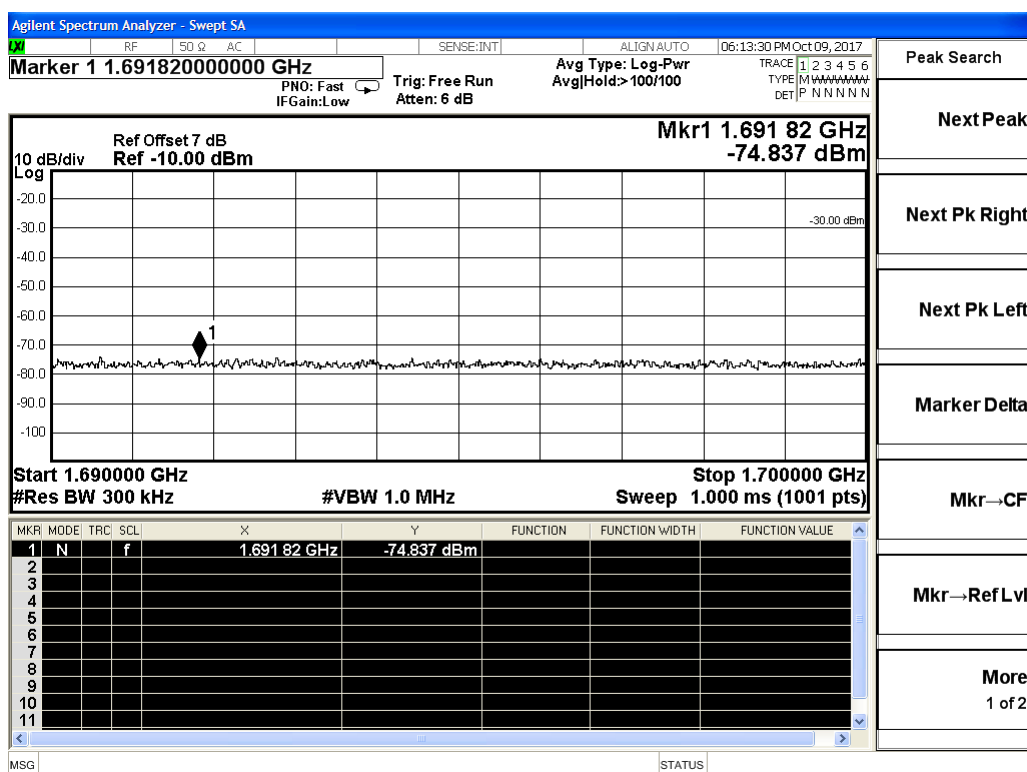


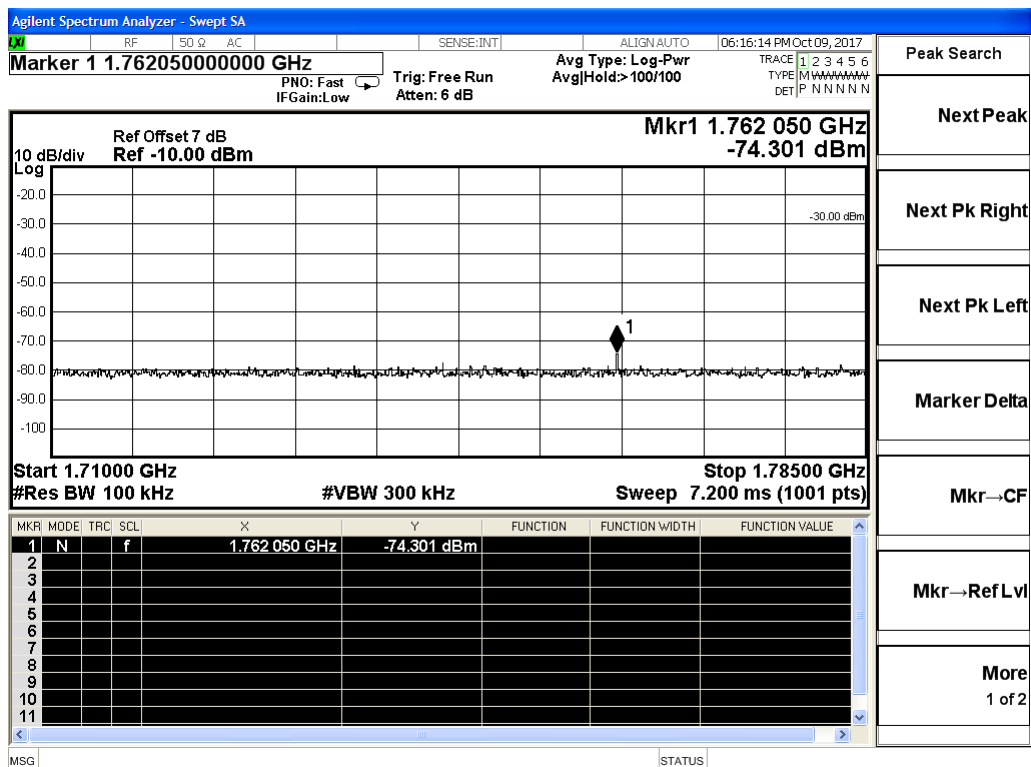
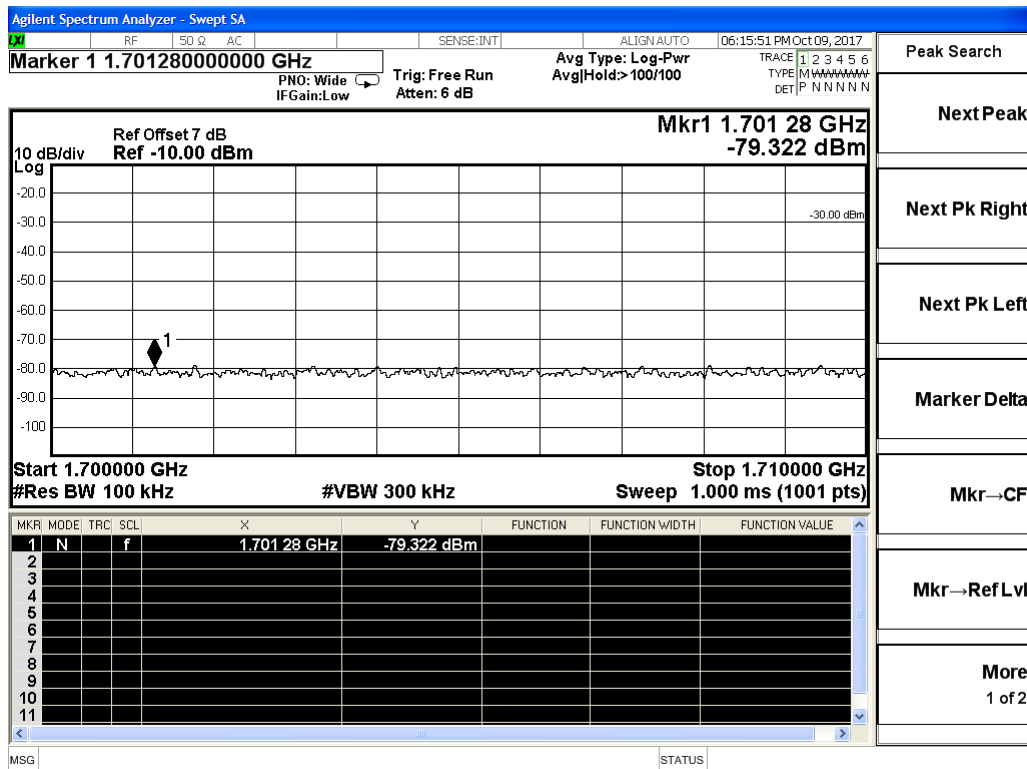


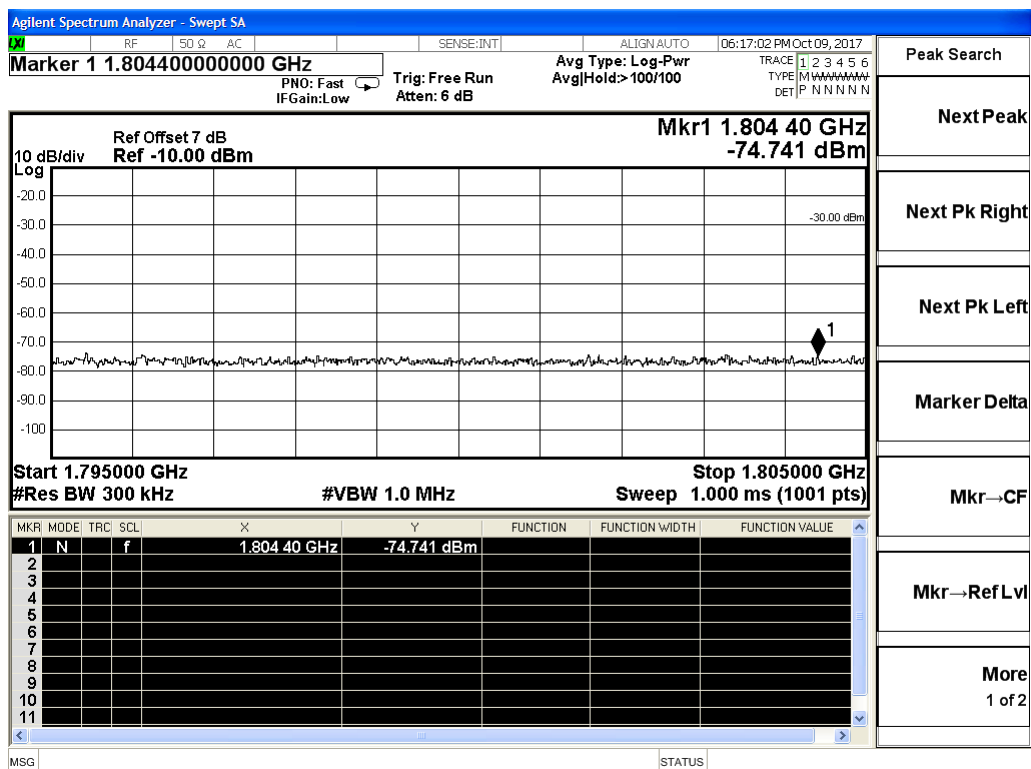
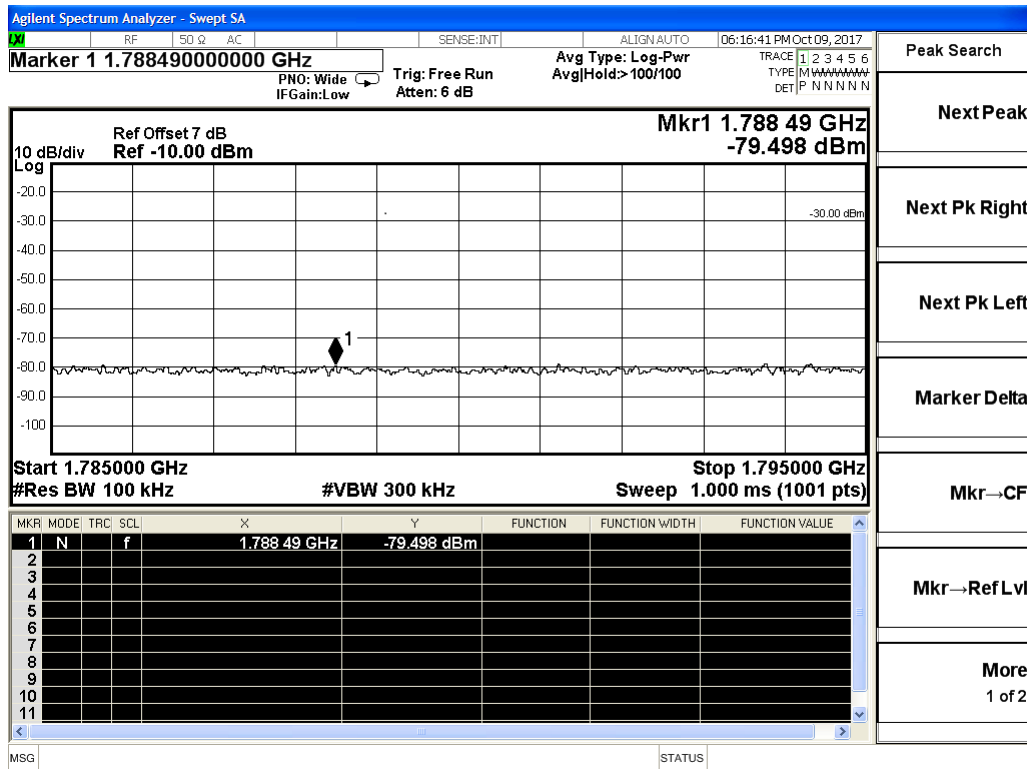
DCS 1800 Normal condition Middle channel original test data

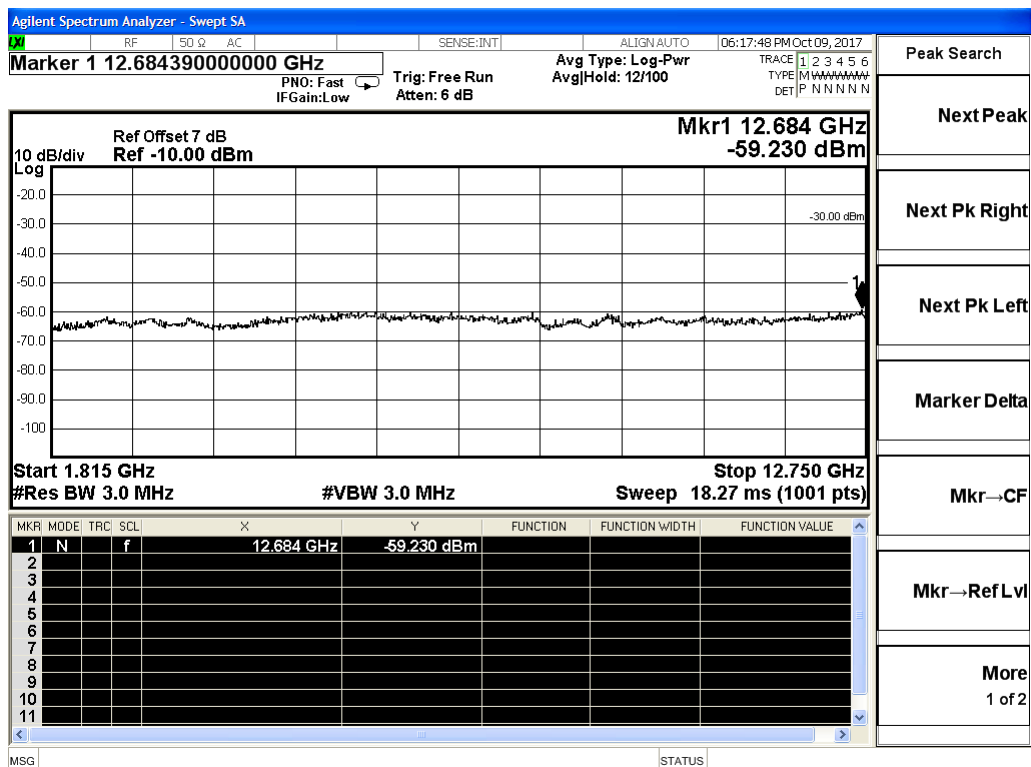
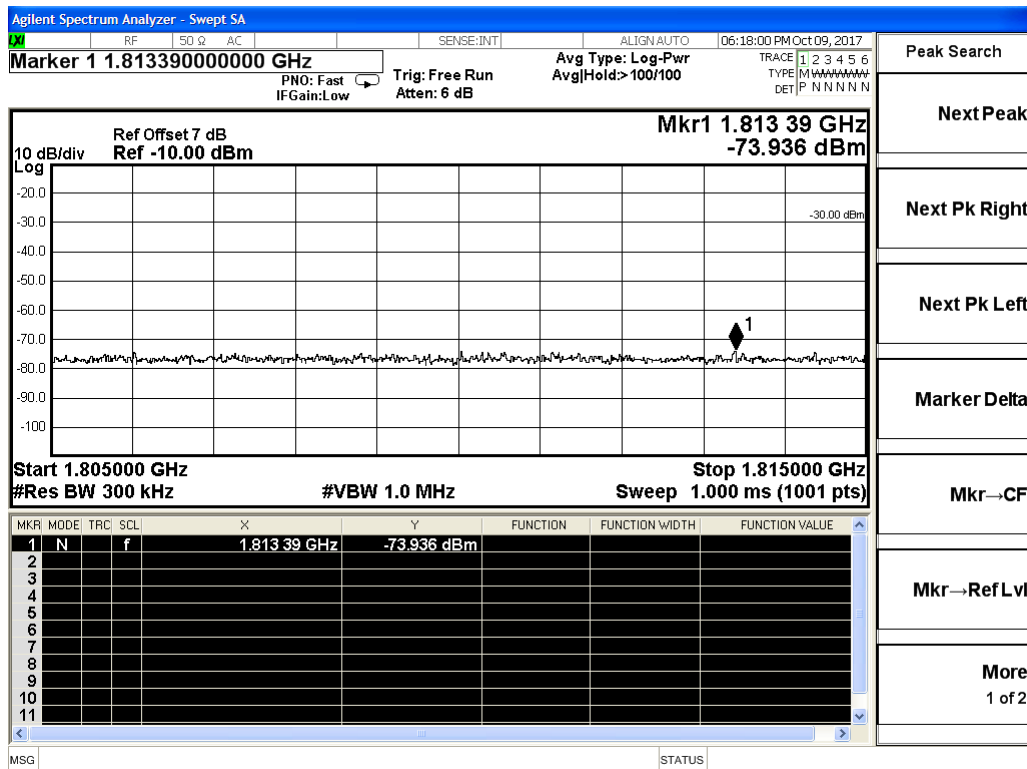




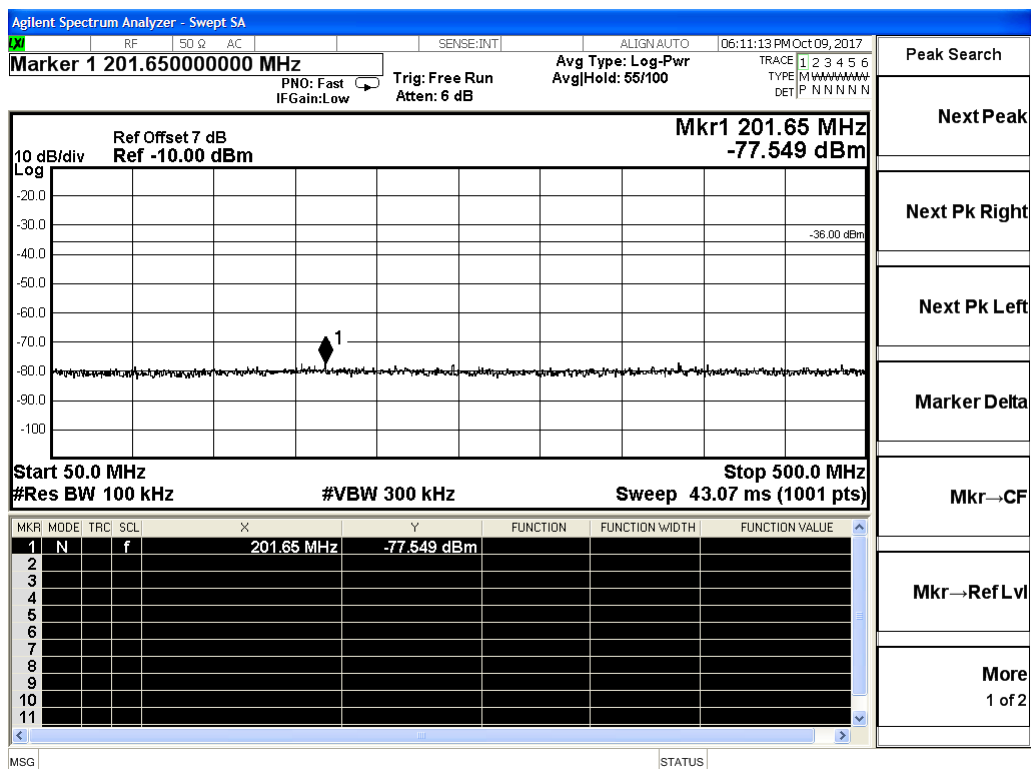
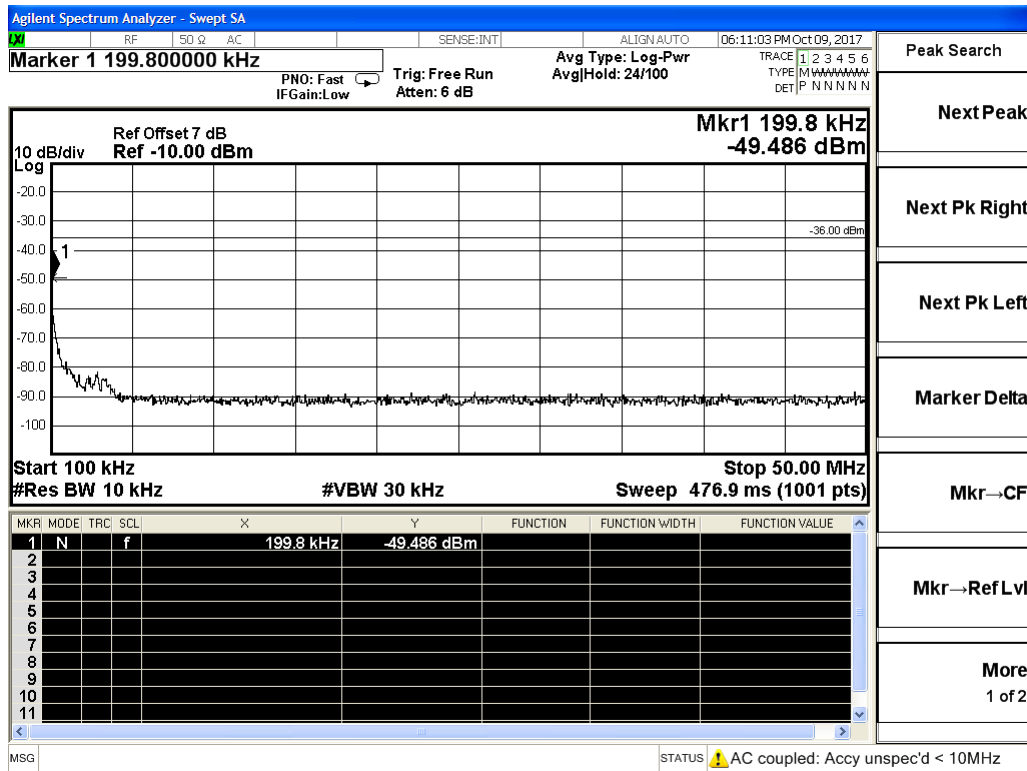


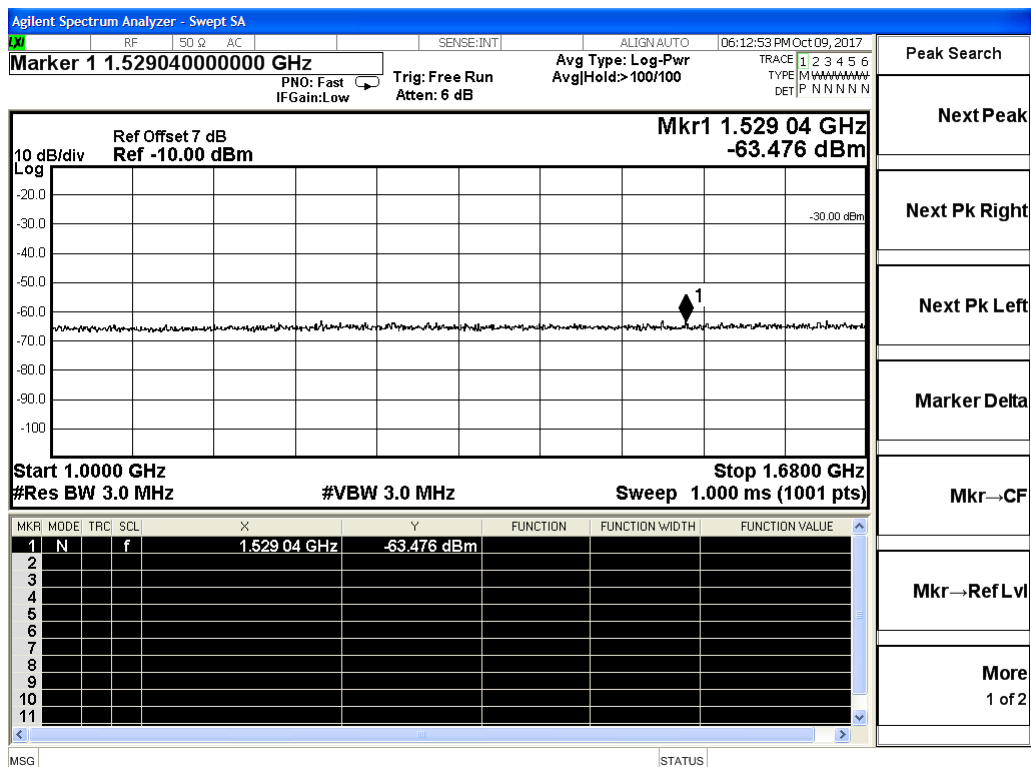
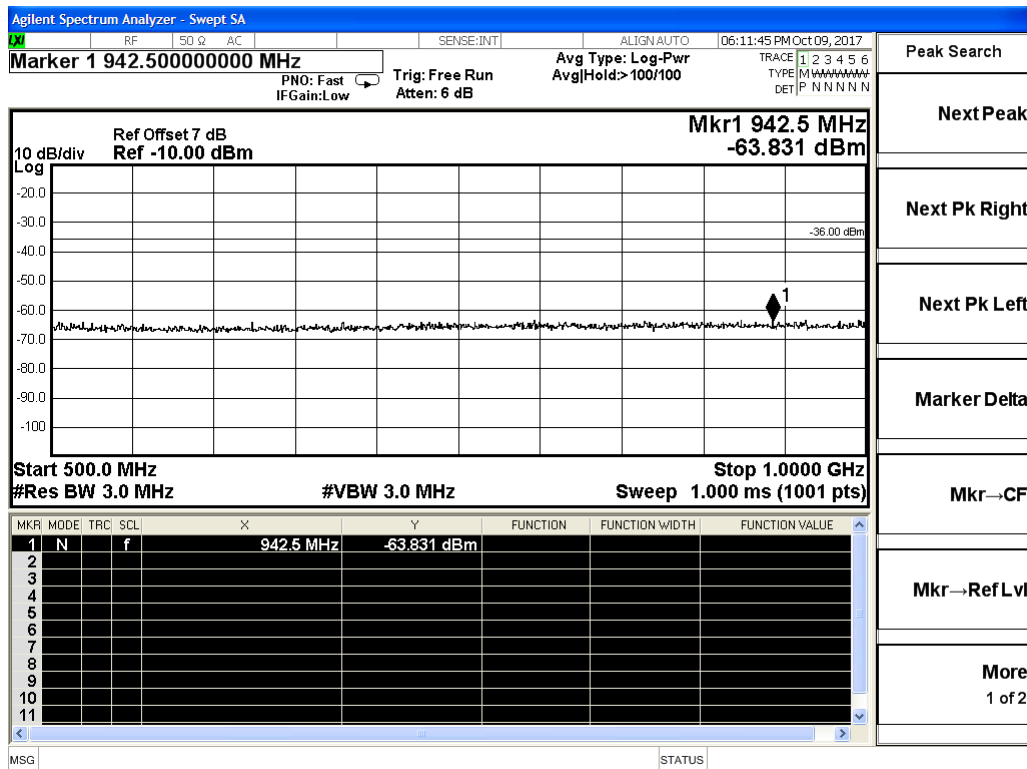


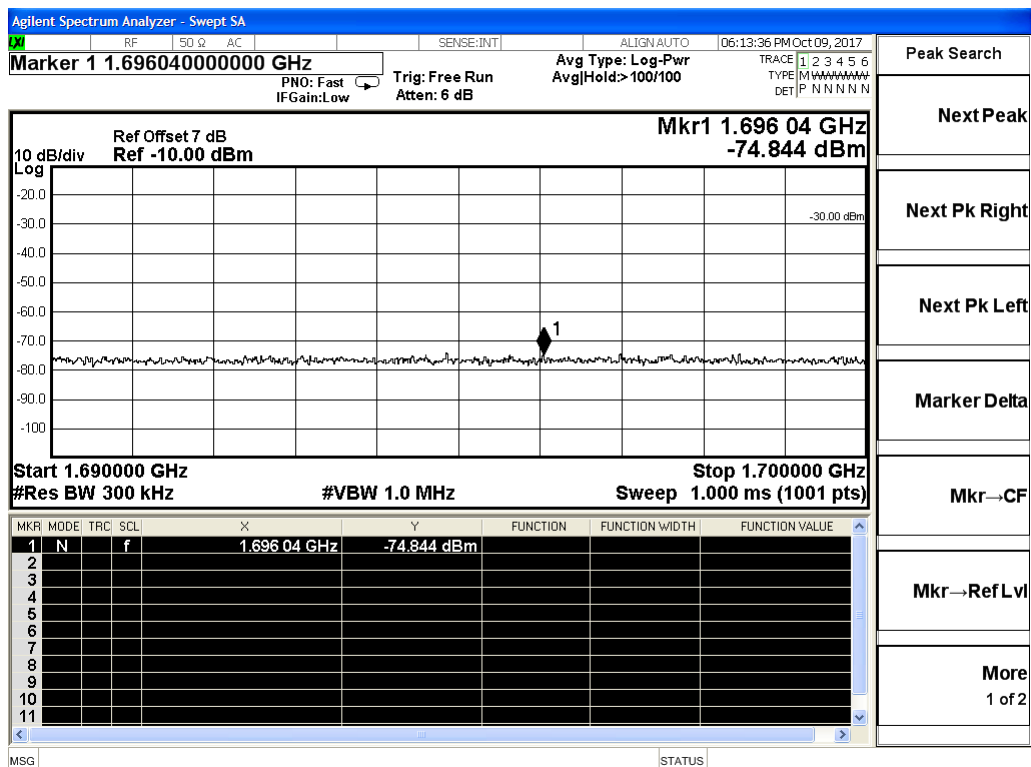
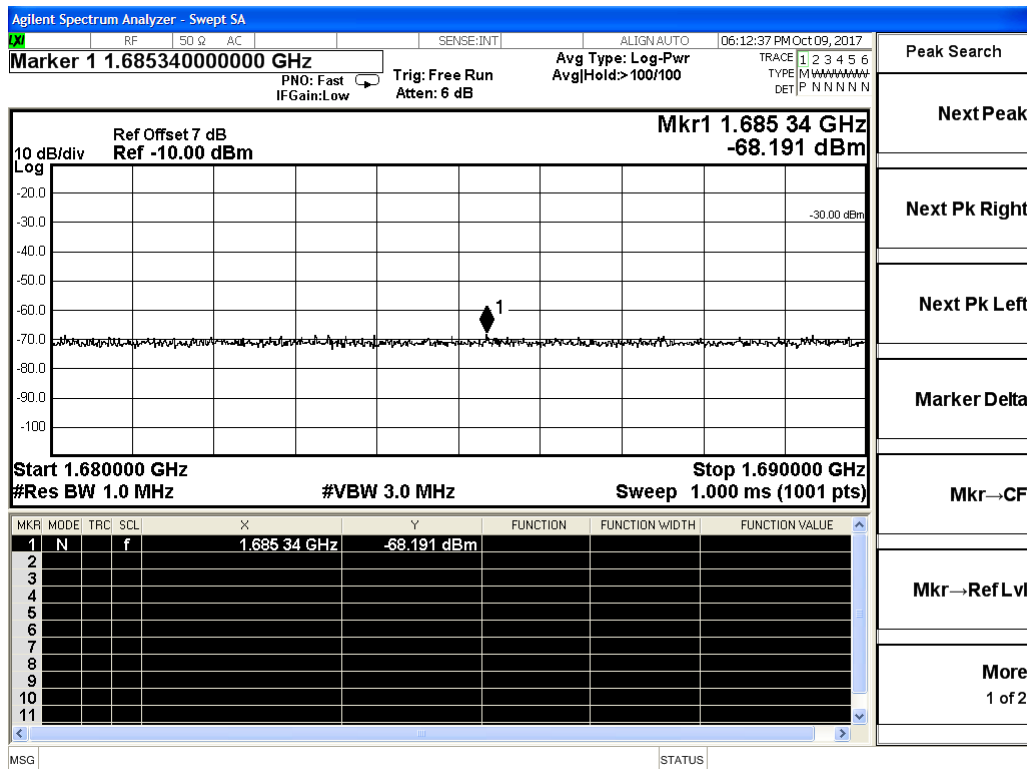


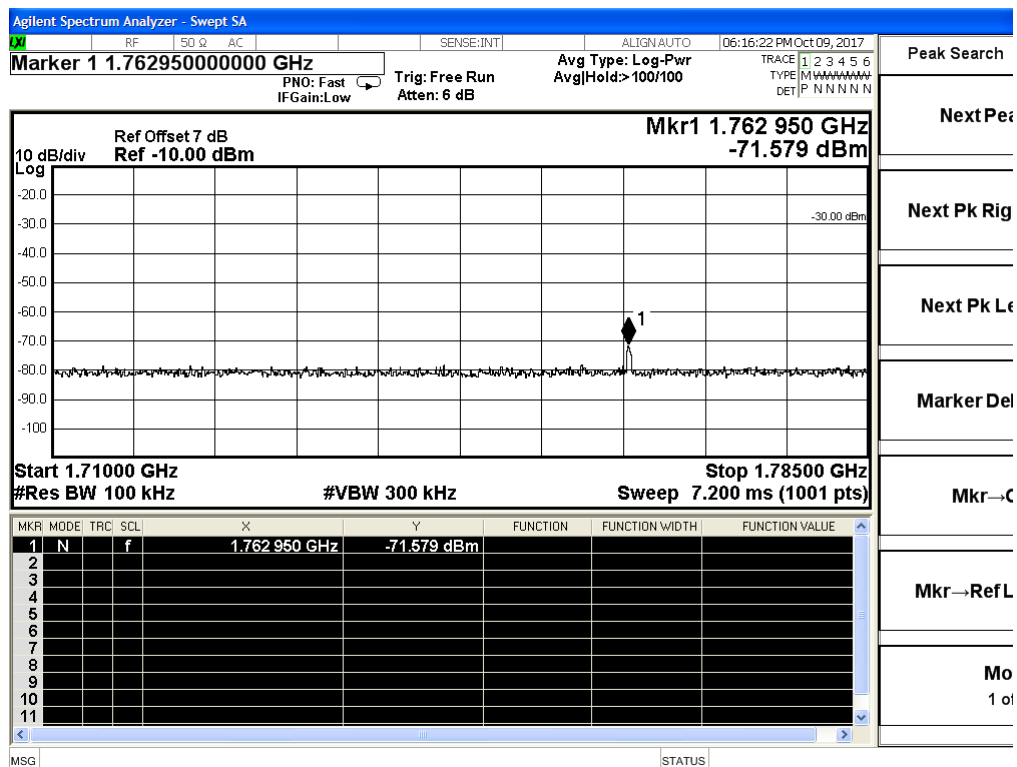
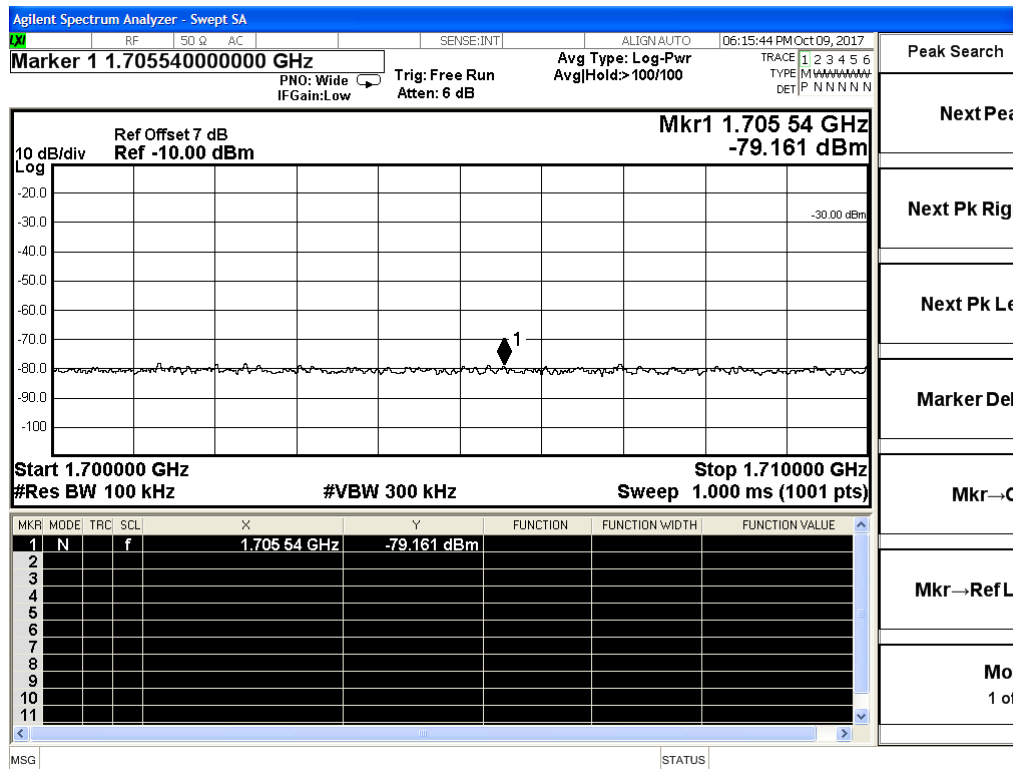


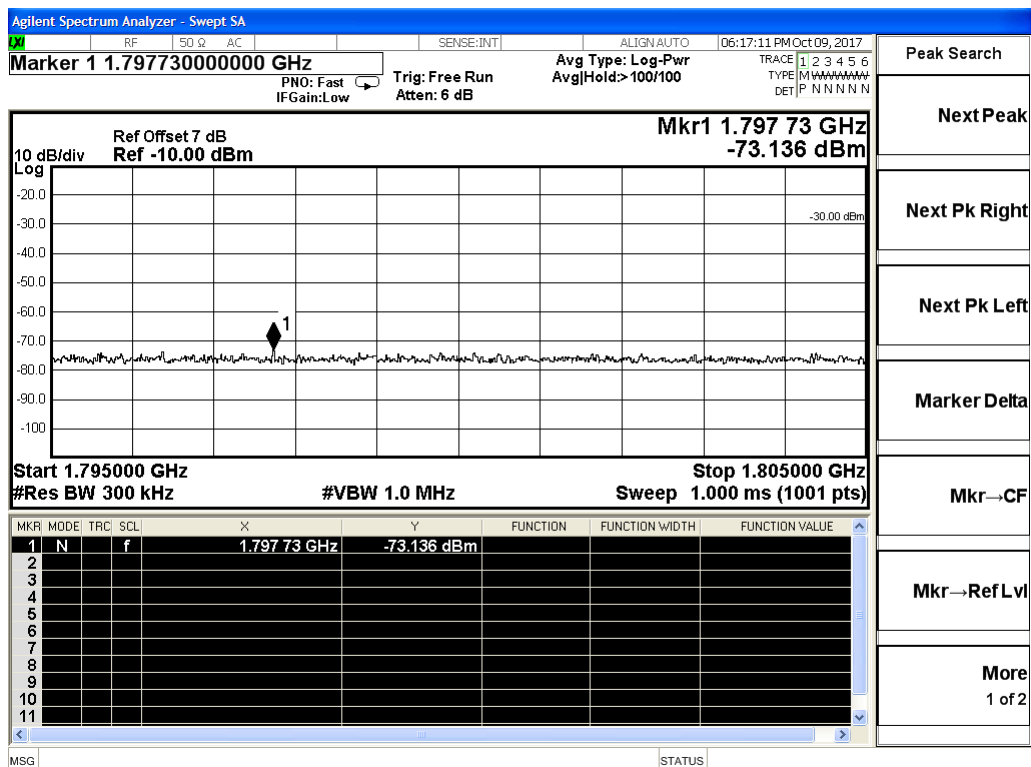
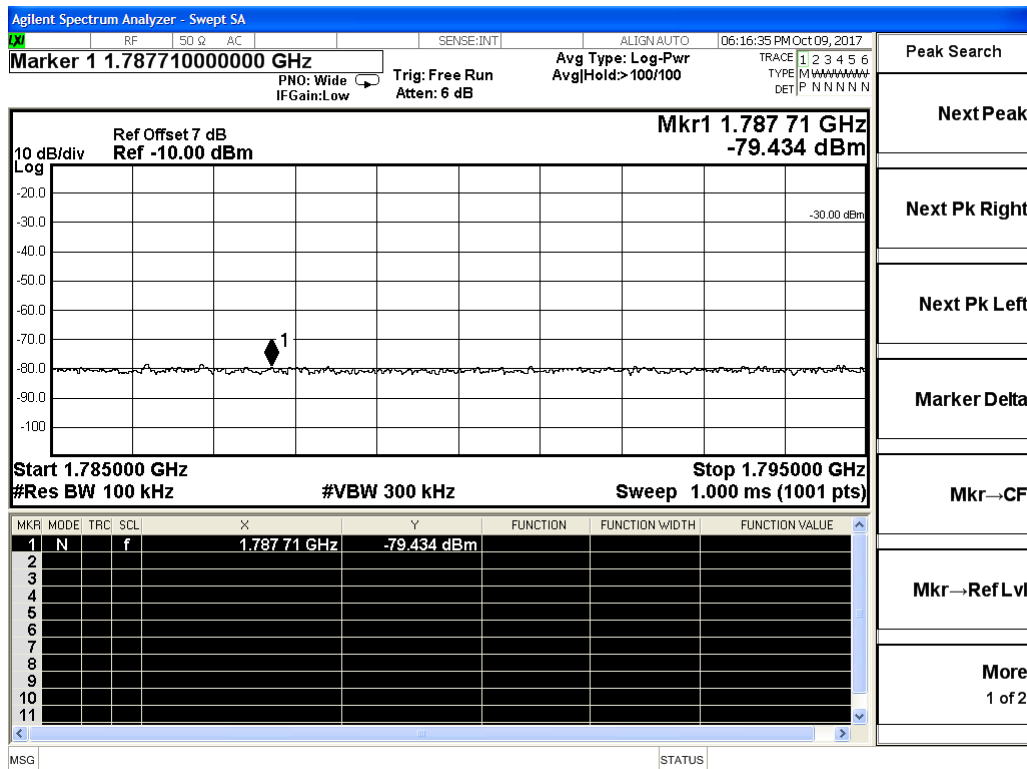
DCS 1800 Extreme conditions in Middle channel

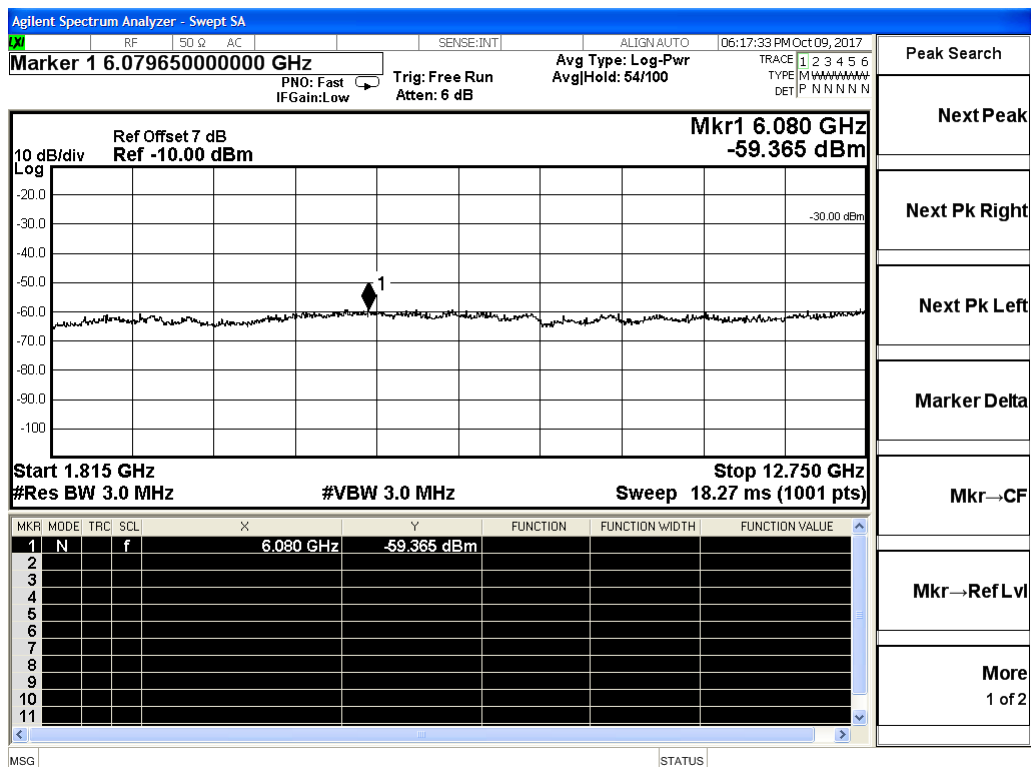
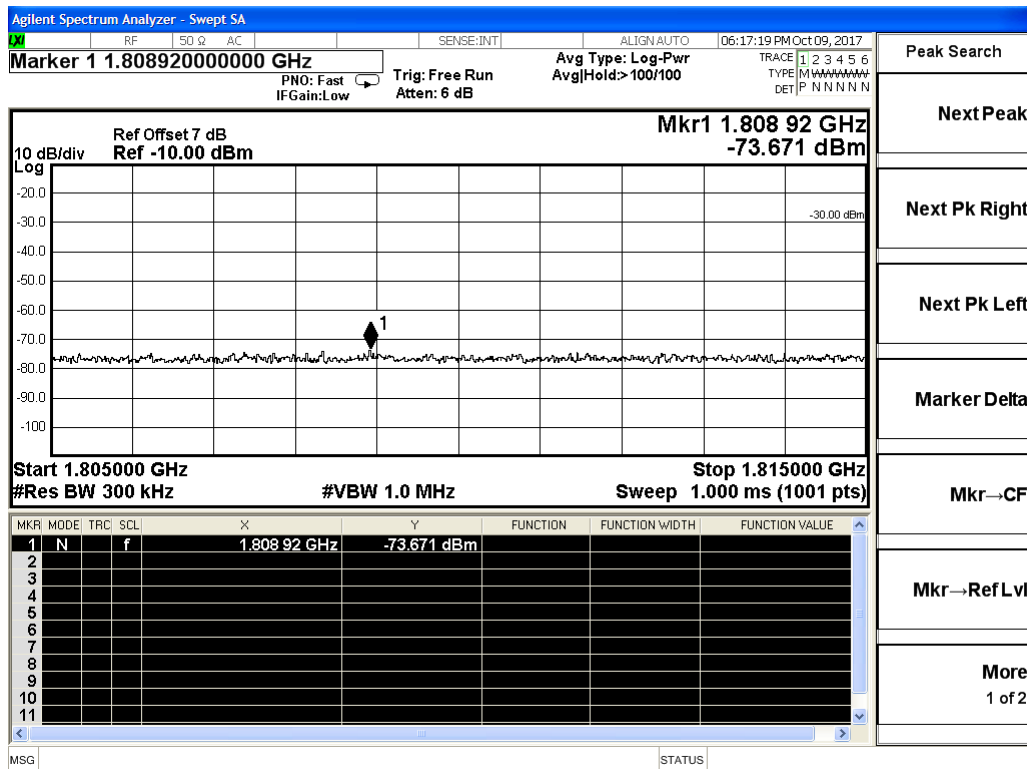












Transmitter spurious emissions

Radiated spurious emissions - MS allocated a channel(Worst Case)

Radiated Spurious Emissions - P1B allocated channel (Worst Case)				
GSM 900 Band: Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
399.83	Horizontal	-51.56	-36.00	Pass
474.55	H	-51.11	-36.00	
1794.63	H	-49.49	-30.00	
2692.14	H	-43.12	-30.00	
3589.45	H	-48.16	-30.00	
GSM 900 Band: Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
395.48	Vertical	-46.75	-36.00	Pass
551.84	V	-48.04	-36.00	
1794.83	V	-44.67	-30.00	
2692.17	V	-47.99	-30.00	
3589.58	V	-49.51	-30.00	

Transmitter spurious emissions

Radiated spurious emissions - MS allocated a channel(Worst Case)

GSM 1800 Band: Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
382.00	Horizontal	-46.84	-36.00	Pass
525.65	H	-53.09	-36.00	
1489.93	H	-45.06	-30.00	
2958.94	H	-45.47	-30.00	
3495.02	H	-40.61	-30.00	
GSM 1800 Band: Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
339.31	Vertical	-52.29	-36.00	Pass
407.77	V	-54.32	-36.00	
1415.06	V	-46.47	-30.00	
2605.86	V	-47.56	-30.00	
3494.90	V	-49.26	-30.00	

Radiated spurious emissions - MS in Idle Mode(Worst Case)

GSM 900 Band: Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
252.87	Horizontal	-69.45	-57.00	Pass
457.21	H	-70.54	-57.00	
1457.82	H	-60.57	-47.00	
2172.72	H	-57.96	-47.00	
3662.68	H	-60.19	-47.00	
GSM 900 Band: Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
62.84	Vertical	-69.59	-57.00	Pass
919.64	V	-69.58	-57.00	
1678.56	V	-60.56	-47.00	
2169.91	V	-60.95	-47.00	
3594.61	V	-60.54	-47.00	

DCS 1800 Band: Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
270.33	Horizontal	-71.90	-57.00	Pass
560.32	H	-68.15	-57.00	
1602.92	H	-66.25	-47.00	
1959.81	H	-62.04	-47.00	
3550.54	H	-59.87	-47.00	
DCS 1800 Band: Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
335.85	Vertical	-69.44	-57.00	Pass
447.78	V	-73.29	-57.00	
1328.63	V	-57.88	-47.00	
2040.37	V	-60.60	-47.00	
3685.07	V	-59.43	-47.00	

-----THE END OF REPORT-----