

# Appendix A: RF Power Output

## Test Results

### Conducted Power

Test Band	Test Mode	Test Channel	Measured( dbm)	Limit (dbm)	Verdict
GSM850	GSM/TM1	LCH	32.31	38.5	PASS
		MCH	32.33	38.5	PASS
		HCH	32.37	38.5	PASS

Test Band	Test Mode	Test Channel	Measured( dbm)	Limit (dbm)	Verdict
GSM1900	GSM/TM1	LCH	29.09	33	PASS
		MCH	29.22	33	PASS
		HCH	28.65	33	PASS

Test Band	Test Mode	Test Channel	Measured( dbm)	Limit (dbm)	Verdict
WCDMA850	UMTS/TM1	LCH	22.97	38.5	PASS
		MCH	22.62	38.5	PASS
		HCH	23.02	38.5	PASS

Test Band	Test Mode	Test Channel	Measured( dbm)	Limit (dbm)	Verdict
WCDMA1700	UMTS/TM1	LCH	22.54	30	PASS
		MCH	22.91	30	PASS
		HCH	22.56	30	PASS

Test Band	Test Mode	Test Channel	Measured( dbm)	Limit (dbm)	Verdict
WCDMA1900	UMTS/TM1	LCH	22.13	33	PASS
		MCH	21.93	33	PASS
		HCH	21.59	33	PASS

## Radiated Power (ERP/EIRP)

Test Band	Test Mode	Antenna Pol.	ERP Measured(dbm)	Limit (dbm)	Verdict
GSM850	GSM/TM1/MCH	H	30.25	38.5	PASS
		V	32.35	38.5	PASS

Test Band	Test Mode	Test Channel	EIRP Measured(dbm)	Limit (dbm)	Verdict
GSM1900	GSM/TM1/LCH	H	29.14	33	PASS
		V	30.35	33	PASS

Test Band	Test Mode	Test Channel	ERP Measured(dbm)	Limit (dbm)	Verdict
WCDMA850	UMTS/TM1/MCH	H	22.24	38.5	PASS
		V	23.44	38.5	PASS

Test Band	Test Mode	Test Channel	EIRP Measured(dbm)	Limit (dbm)	Verdict
WCDMA1700	UMTS/TM1/MCH	H	21.89	33	PASS
		V	23.11	33	PASS

Test Band	Test Mode	Test Channel	EIRP Measured(dbm)	Limit (dbm)	Verdict
WCDMA1900	UMTS/TM1/HCH	H	22.15	33	PASS
		V	23.65	33	PASS

# Appendix B:Peak-to-Average Ratio

## Test Results

Test Band	Test Mode	Test Channel	Measured (db)	Limit (db)	Verdict
GSM1900	GSM/TM1	LCH	0.14	13	PASS
		MCH	0.12	13	PASS
		HCH	0.13	13	PASS

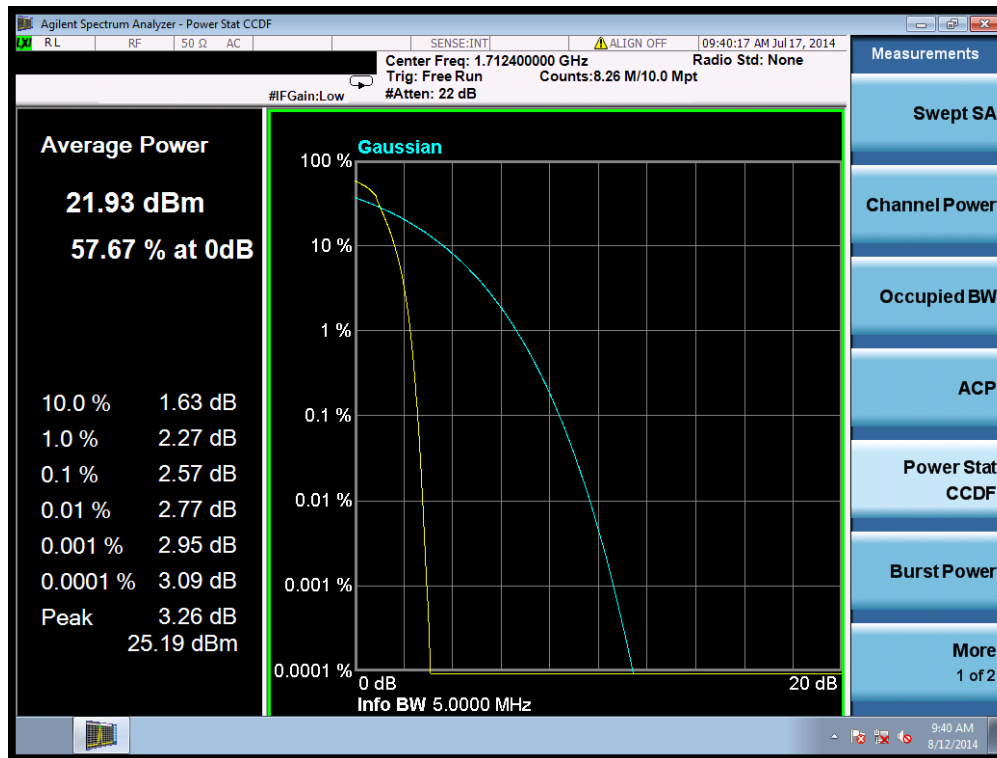
Test Band	Test Mode	Test Channel	Measured (db)	Limit (db)	Verdict
WCDMA1700	UMTS/TM1	LCH	3.31	13	PASS
		MCH	3.25	13	PASS
		HCH	3.30	13	PASS

Test Band	Test Mode	Test Channel	Measured (db)	Limit (db)	Verdict
WCDMA1900	UMTS/TM1	LCH	2.89	13	PASS
		MCH	3.19	13	PASS
		HCH	3.00	13	PASS

# Test Band=WCDMA1700

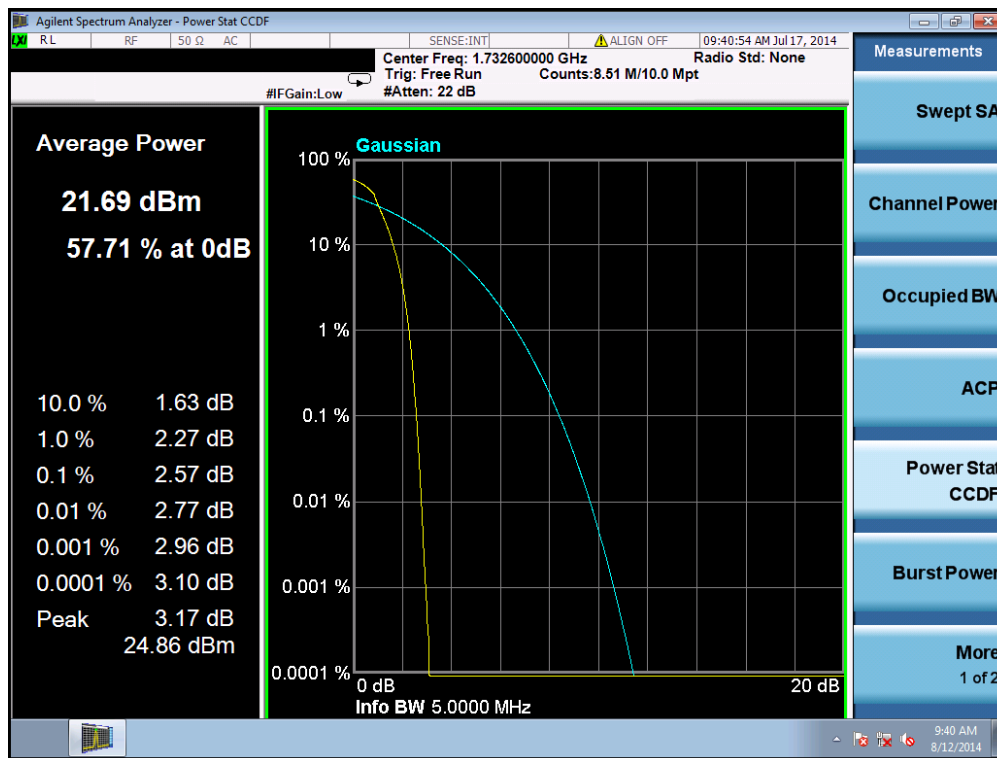
Test Mode=UMTS/TM1

Test Channel=LCH



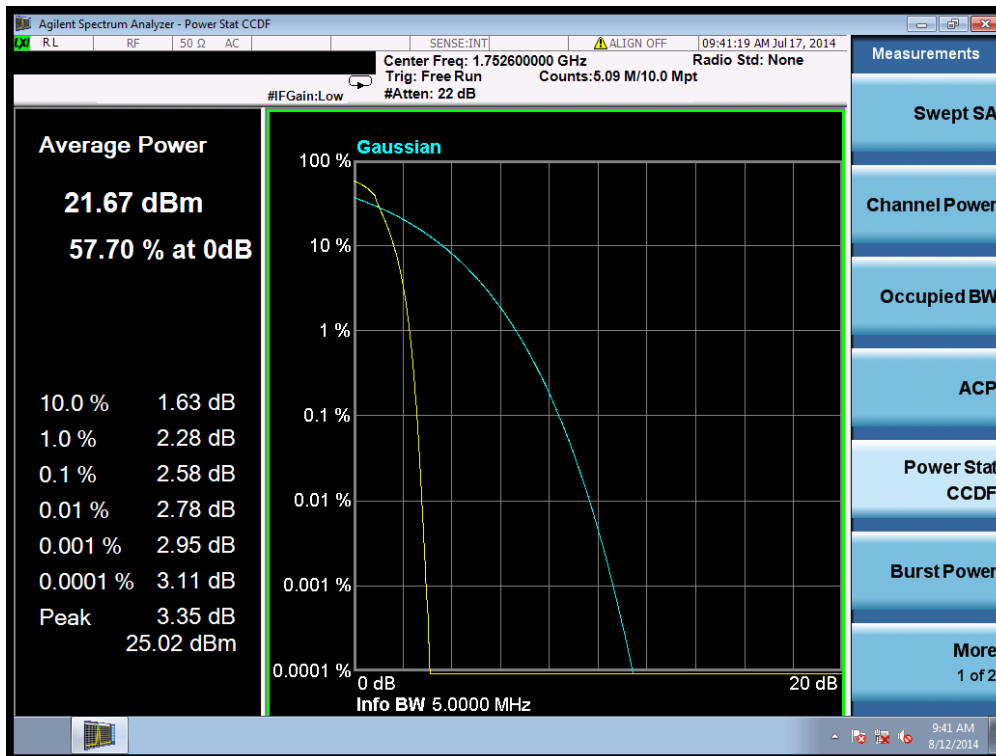
Test Mode=UMTS/TM1

Test Channel=MCH



Test Mode=UMTS/TM1

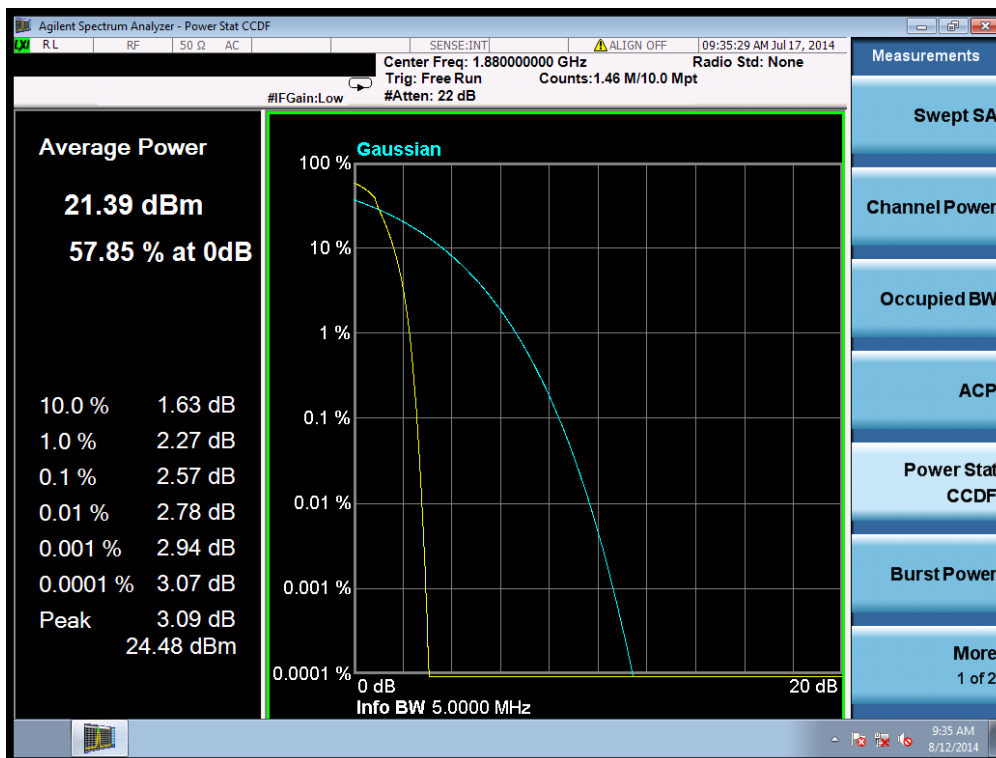
Test Channel=HCH



Test Band=WCDMA1900

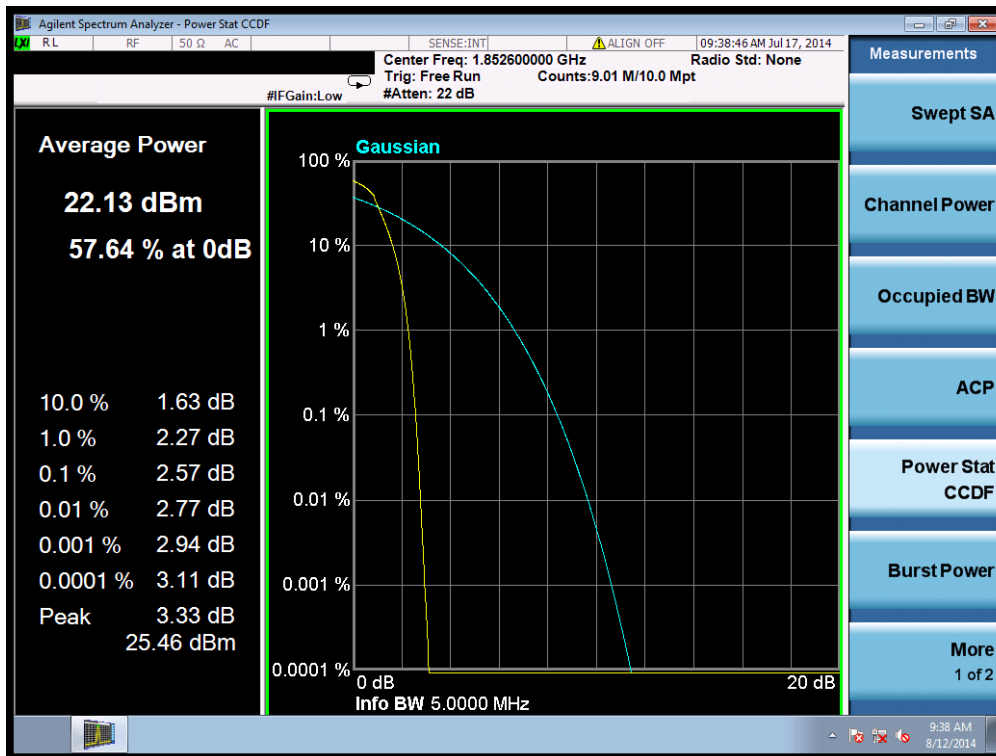
Test Mode=UMTS/TM1

Test Channel=LCH



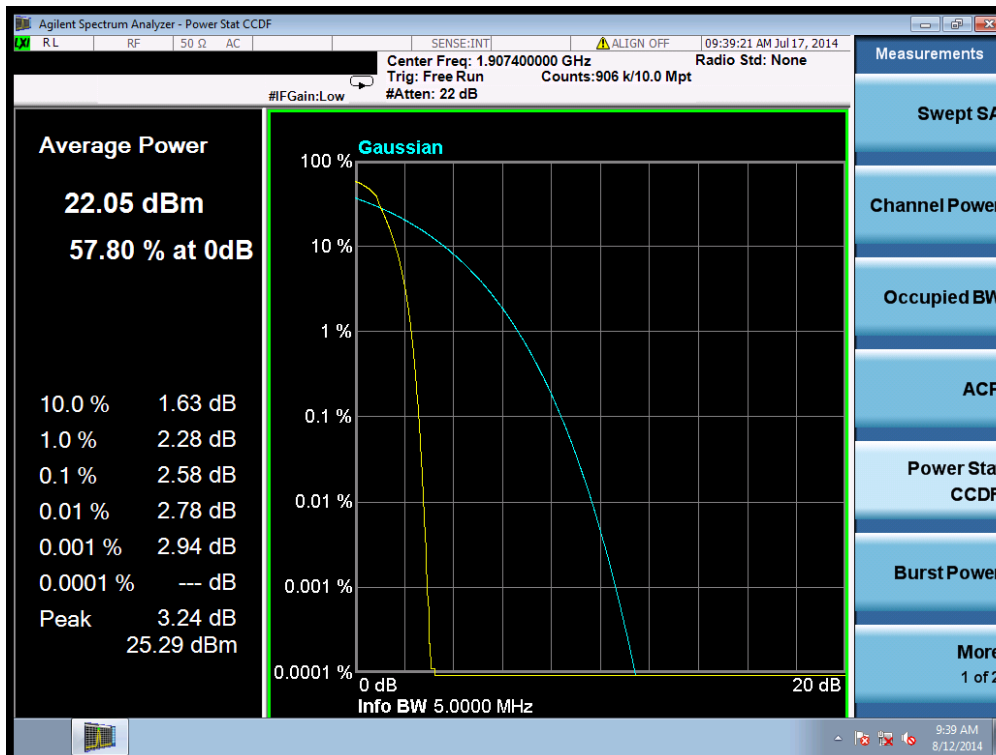
Test Mode=UMTS/TM1

Test Channel=MCH



Test Mode=UMTS/TM1

Test Channel=HCH



# Appendix C: Modulation Characteristics

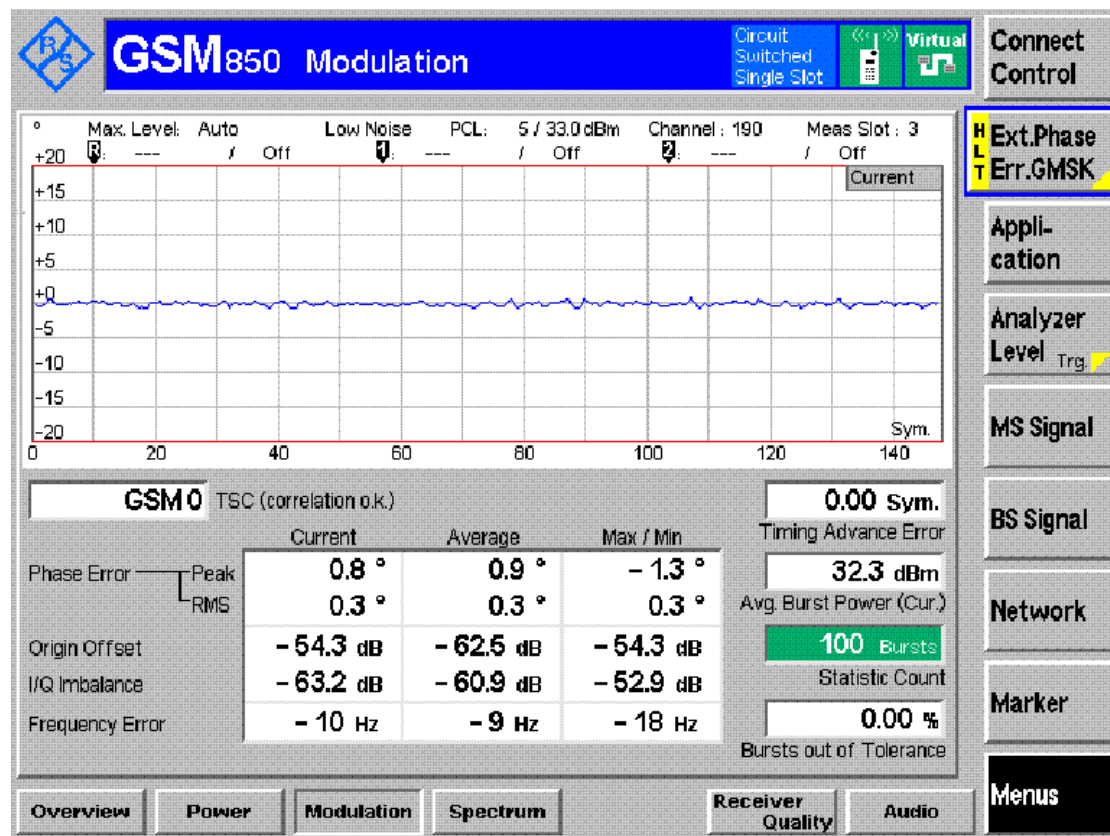
## Test Results

For GSM

Test Band=GSM850

Test Mode=GSM/TM1

Test Channel=MCH



# Test Band=GSM1900

Test Mode=GSM/TM1

Test Channel=MCH

**GSM1900 Modulation**

Circuit Switched Single Slot
 Virtual

Connect Control

° Max. Level: Auto / Off
Low Noise: --- / Off
PCL: 0 / 30.0 dBm
Channel: 661
Meas Slot: 3

+20
---
---
---
---

Current
Sym.

0
20
40
60
80
100
120
140

**GSM0** TSC (correlation o.k.)

	Current	Average	Max / Min
Phase Error — Peak	-1.8 °	1.6 °	2.2 °
RMS	0.5 °	0.5 °	0.6 °
Origin Offset	-59.4 dB	-59.0 dB	-51.0 dB
I/Q Imbalance	-57.7 dB	-60.4 dB	-51.3 dB
Frequency Error	-15 Hz	-6 Hz	-21 Hz

-0.04 Sym.

Timing Advance Error

29.1 dBm

Avg. Burst Power (Cur.)

100 Bursts

Statistic Count

0.00 %

Bursts out of Tolerance

Overview

Power

Modulation

Spectrum

Receiver Quality

Audio

Menus

Ext.Phase Err.GMSK

Application

Analyzer Level Trg

MS Signal

BS Signal

Network

Marker

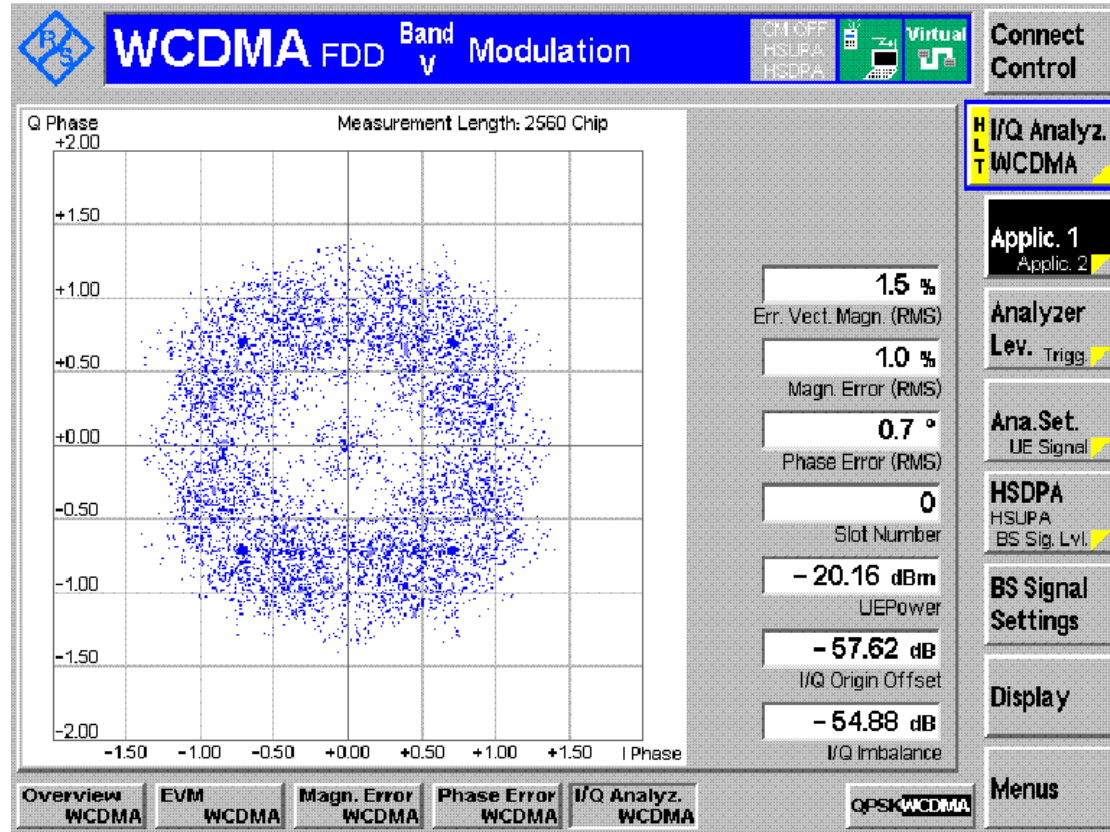


# For WCDMA

## Test Band=WCDMA850

Test Mode=UMTS/TM1

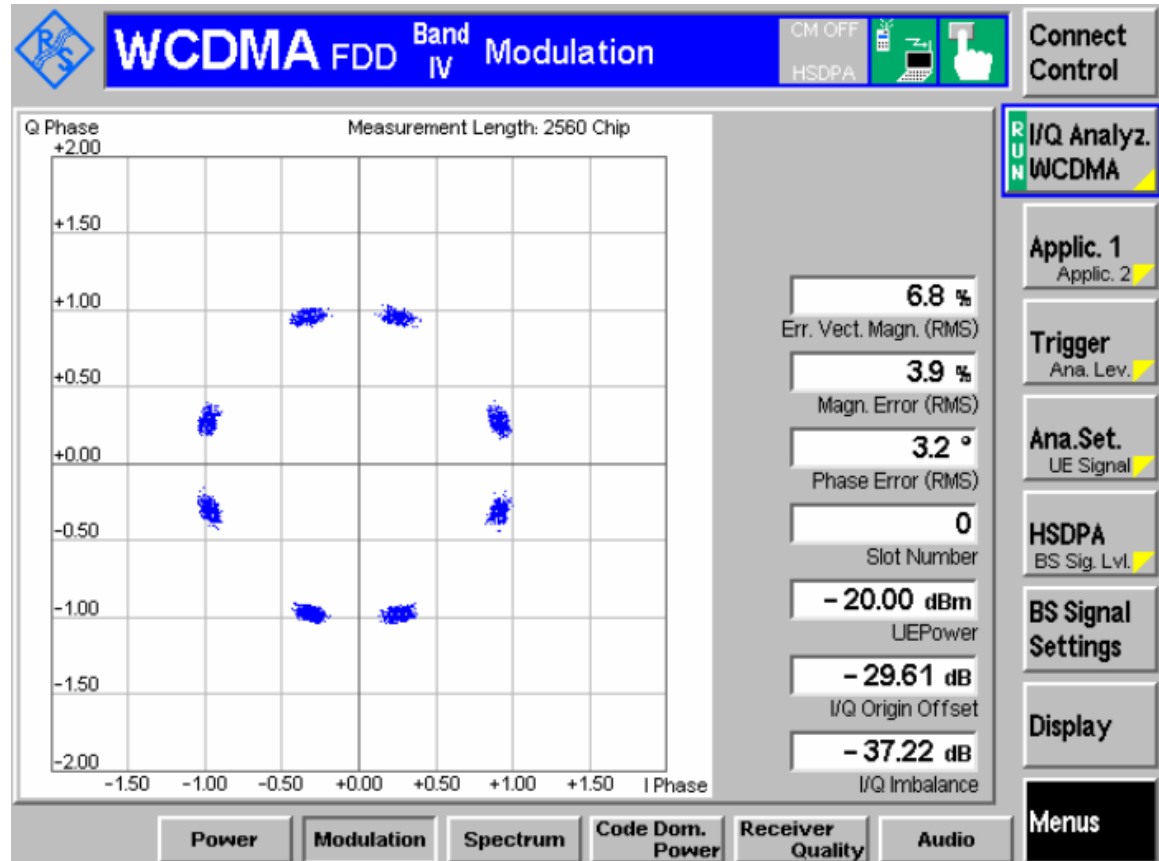
Test Channel=MCH



Test Band=WCDMA1700

Test Mode=UMTS/TM1

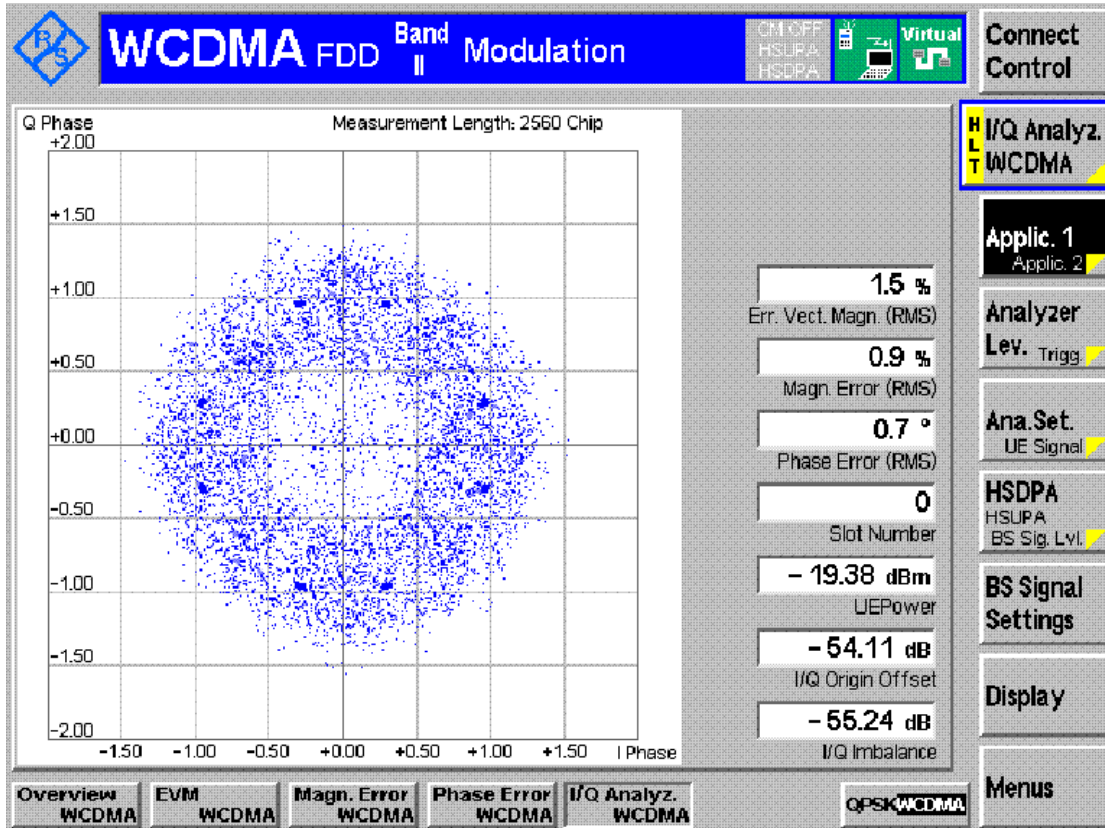
Test Channel=MCH



# Test Band=WCDMA1900

Test Mode=UMTS/TM1

Test Channel=MCH



# Appendix D:BandWidth

## Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth (KHZ)	Emission Bandwidth (KHZ)	Verdict
GSM850	GSM/TM1	LCH	247.35	318.44	PASS
		MCH	245.09	307.80	PASS
		HCH	245.99	309.63	PASS

Test Band	Test Mode	Test Channel	Occupied Bandwidth (KHZ)	Emission Bandwidth (KHZ)	Verdict
GSM1900	GSM/TM1	LCH	244.89	313.02	PASS
		MCH	247.72	302.90	PASS
		HCH	245.19	319.07	PASS

Test Band	Test Mode	Test Channel	Occupied Bandwidth (KHZ)	Emission Bandwidth (KHZ)	Verdict
WCDMA850	UMTS/TM1	LCH	4174.11	4702.50	PASS
		MCH	4166.30	4702.27	PASS
		HCH	4173.88	4707.66	PASS

Test Band	Test Mode	Test Channel	Occupied Bandwidth (KHZ)	Emission Bandwidth (KHZ)	Verdict
WCDMA1700	UMTS/TM1	LCH	418.9	468.5	PASS
		MCH	417.6	467.6	PASS
		HCH	416.8	467.6	PASS

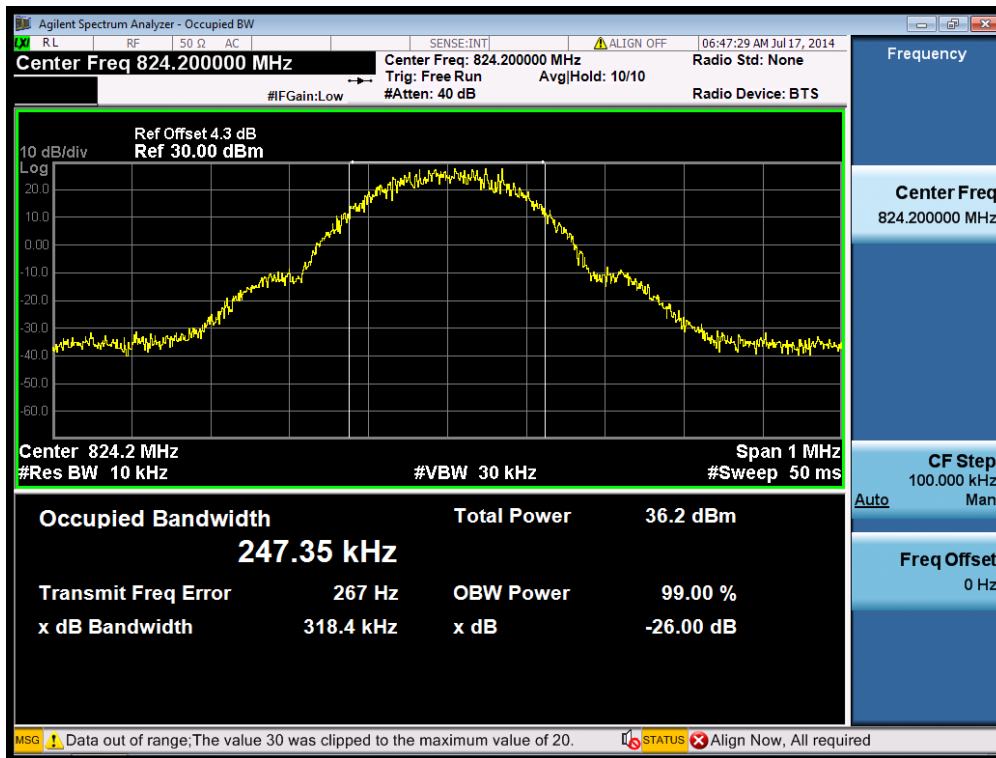
Test Band	Test Mode	Test Channel	Occupied Bandwidth (KHZ)	Emission Bandwidth (KHZ)	Verdict
WCDMA1900	UMTS/TM1	LCH	4175.11	4705.99	PASS
		MCH	4174.07	4702.30	PASS
		HCH	4169.43	4717.33	PASS

### For GSM

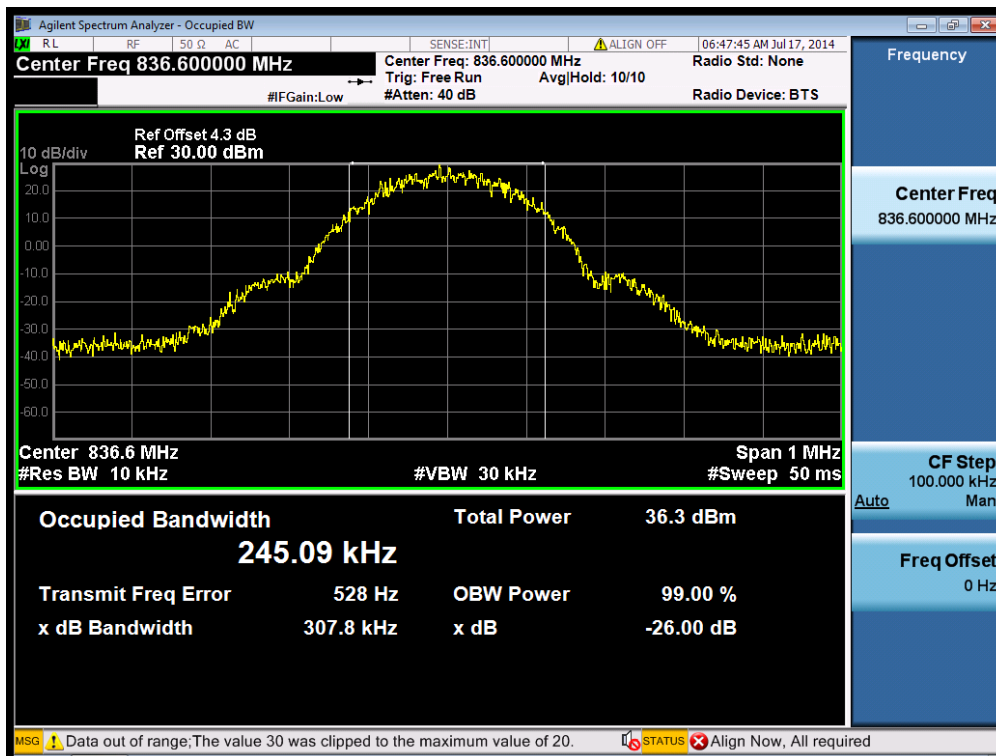
**Test Band=GSM850**

**Test Mode=GSM/TM1**

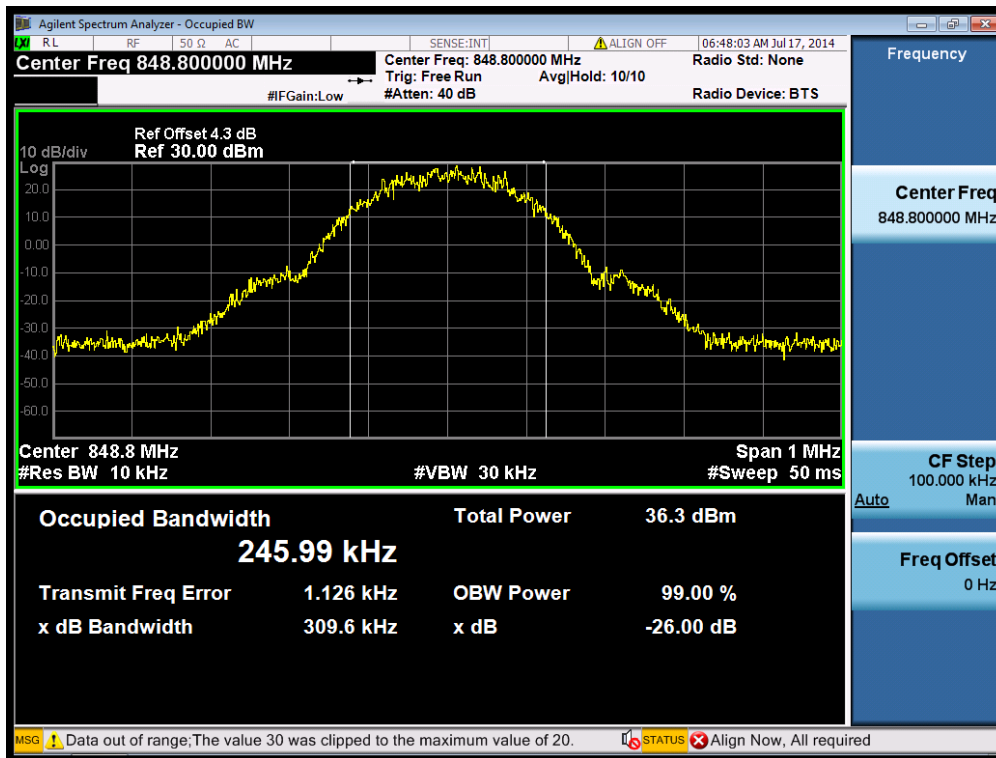
### Test Channel=LCH



### Test Channel=MCH



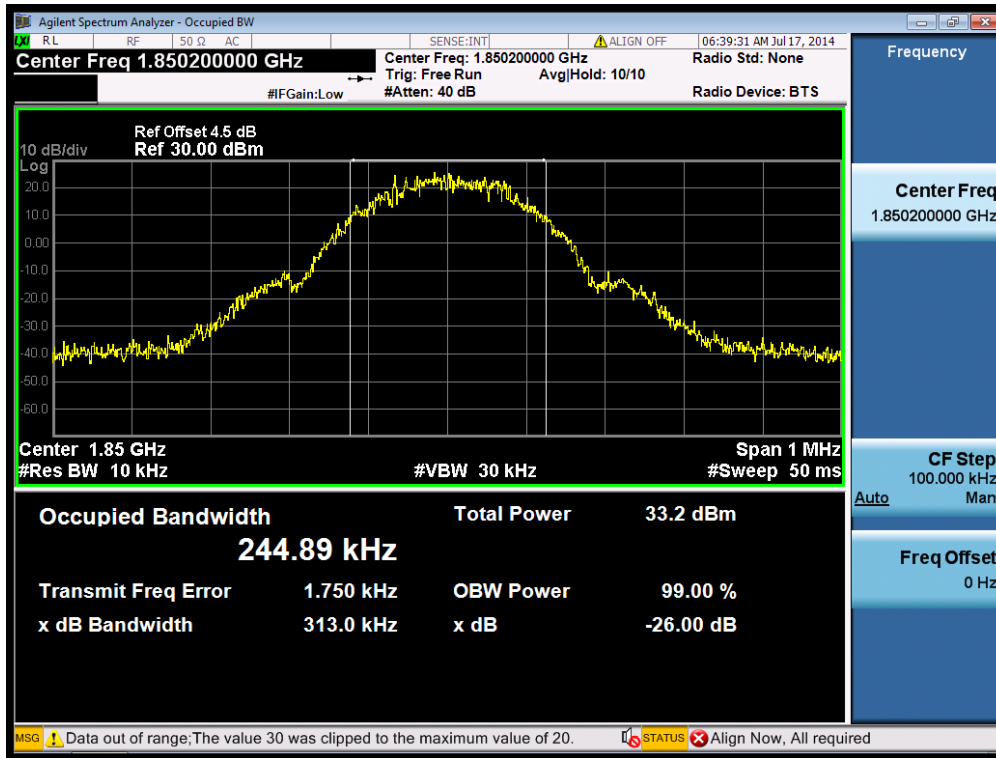
### Test Channel=HCH



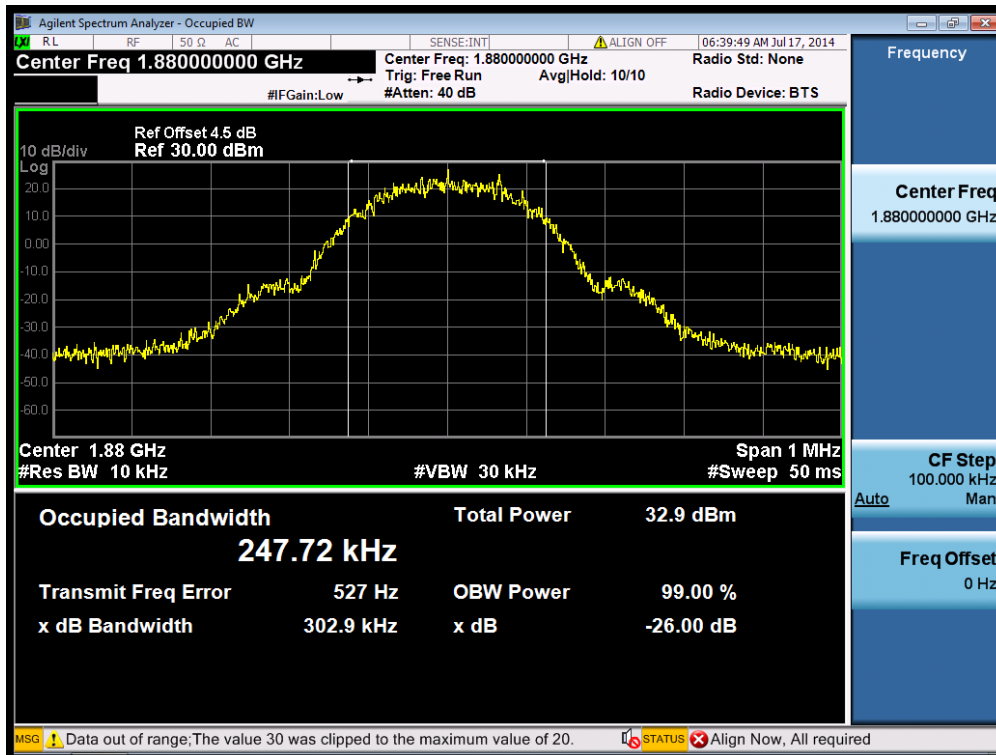
# Test Band=GSM1900

Test Mode=GSM/TM1

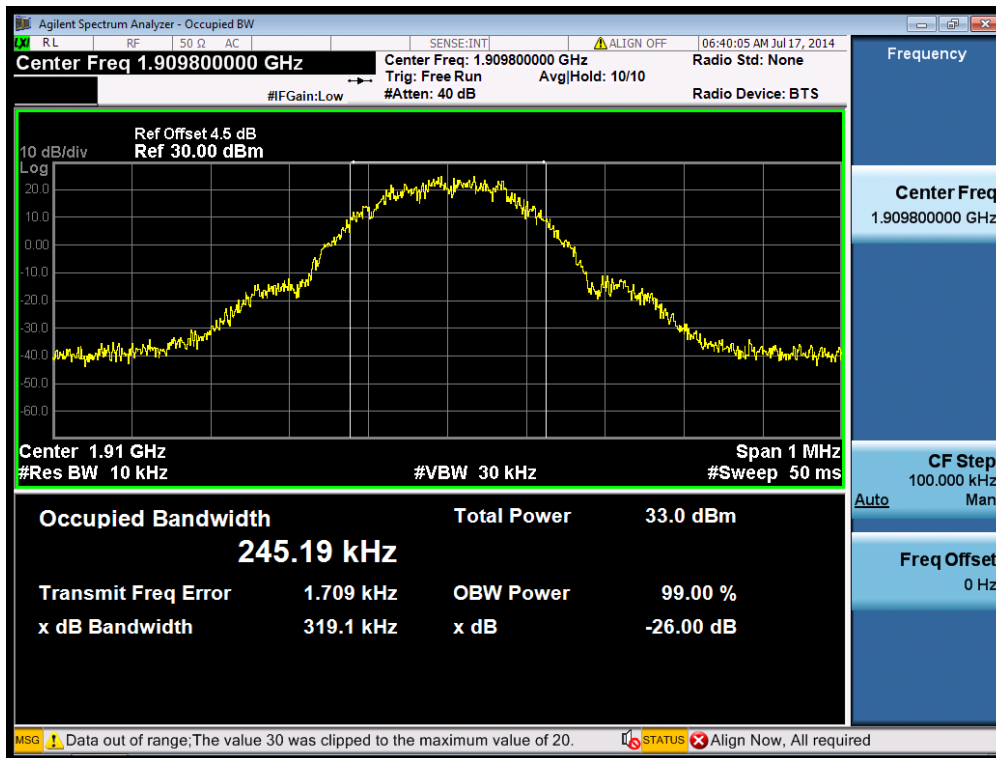
Test Channel=LCH



Test Channel=MCH



Test Channel=HCH

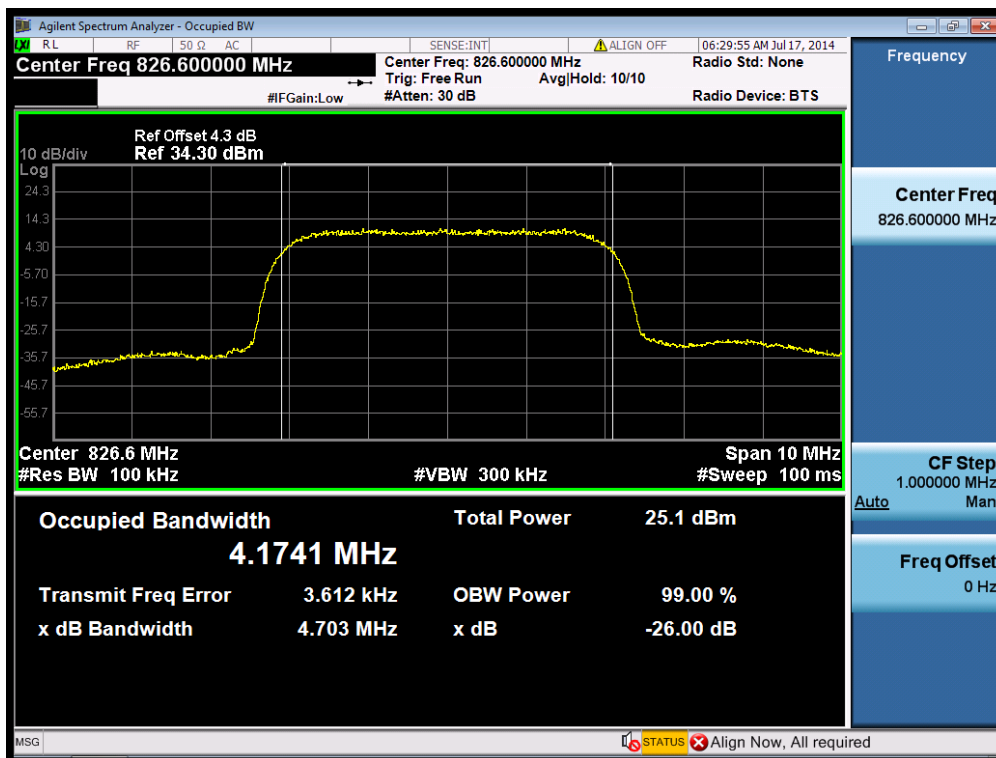


For WCDMA

Test Band=WCDMA850

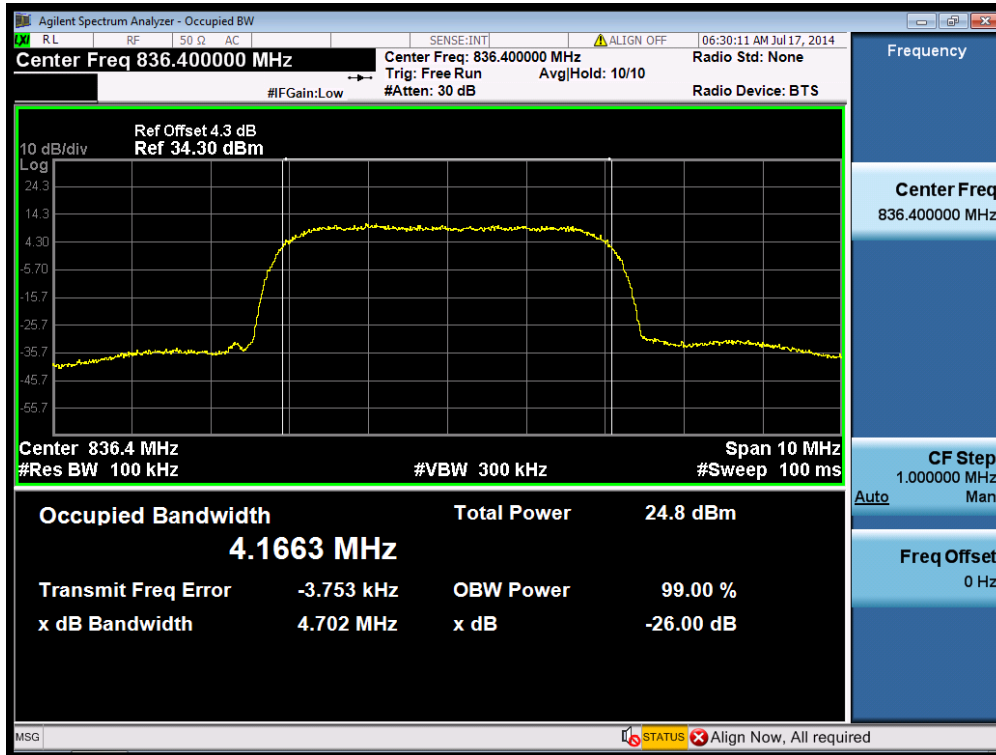
Test Mode=UMTS/TM1

Test Channel=LCH

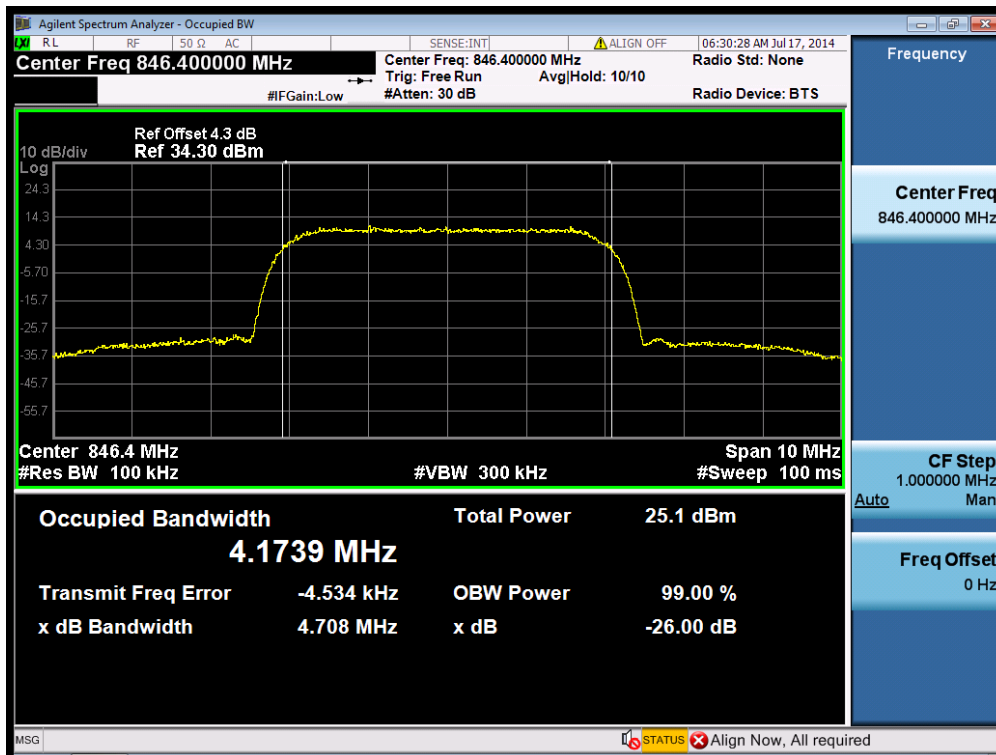




Test Channel=MCH



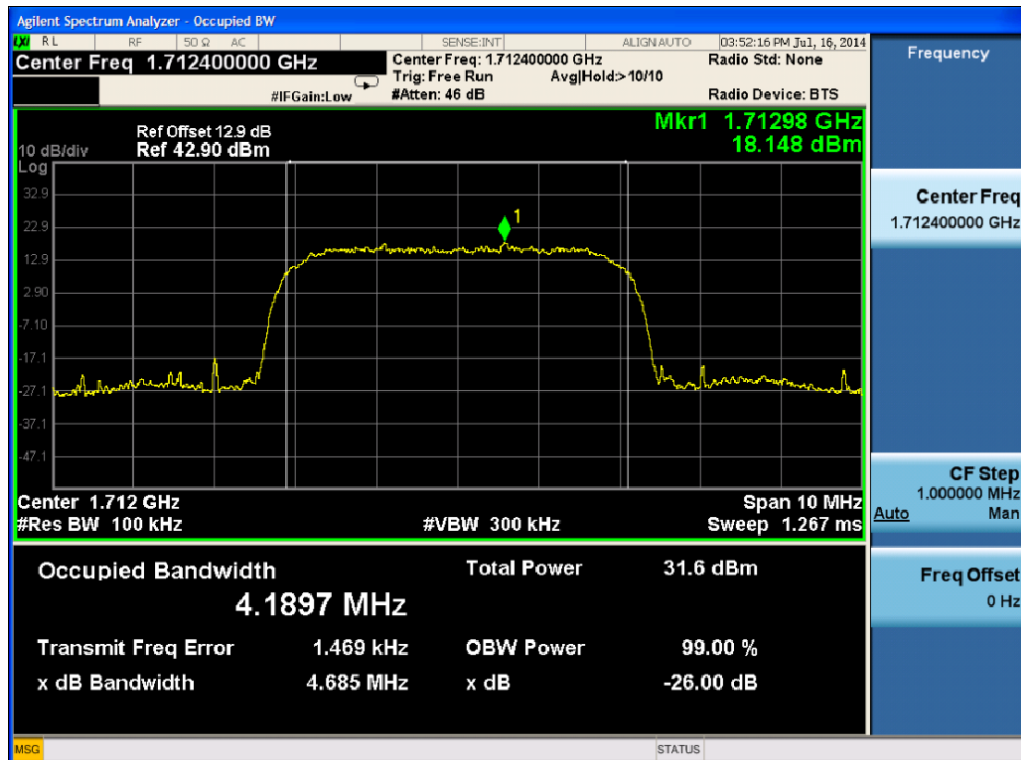
Test Channel=HCH



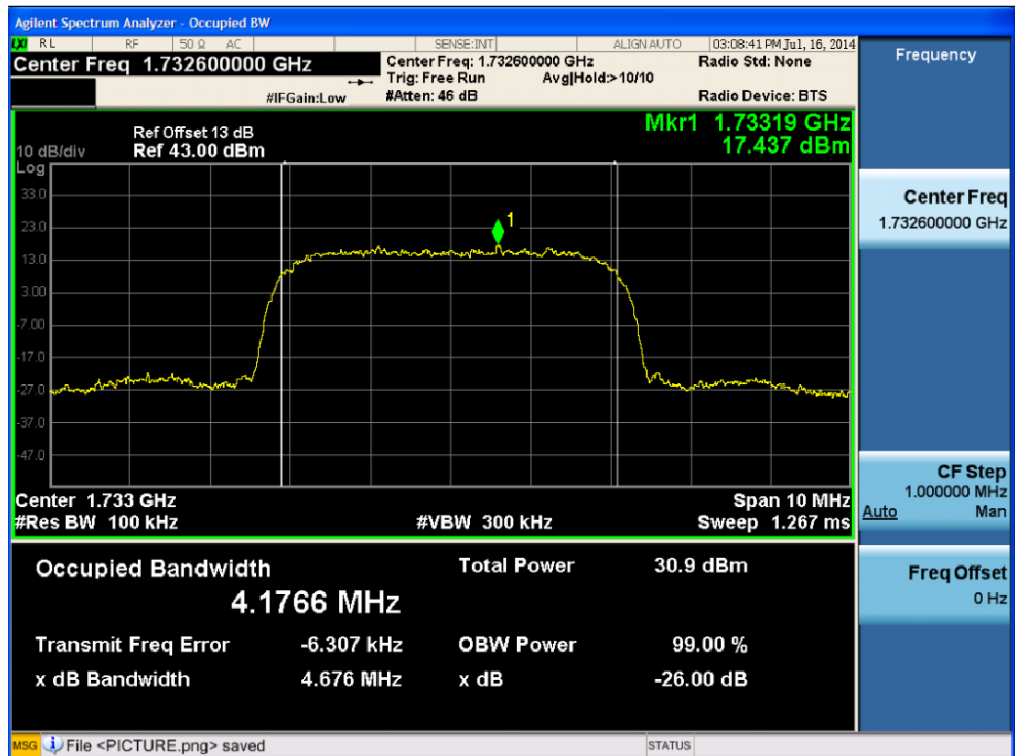
Test Band=WCDMA1700

Test Mode=UMTS/TM1

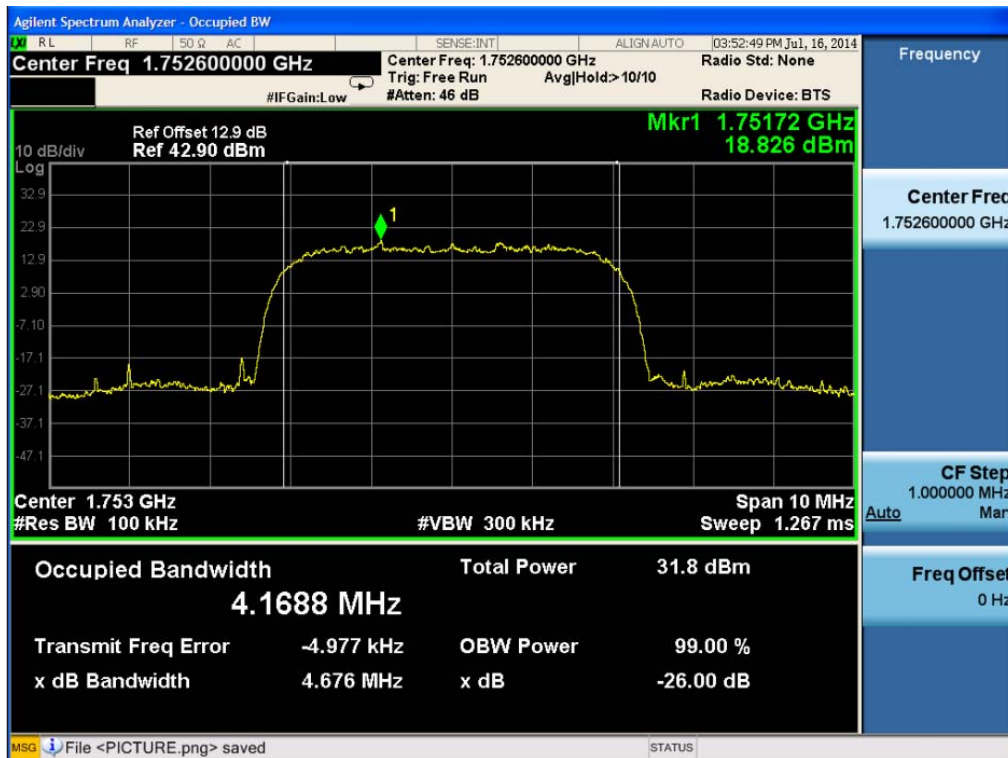
Test Channel=LCH



Test Channel=MCH



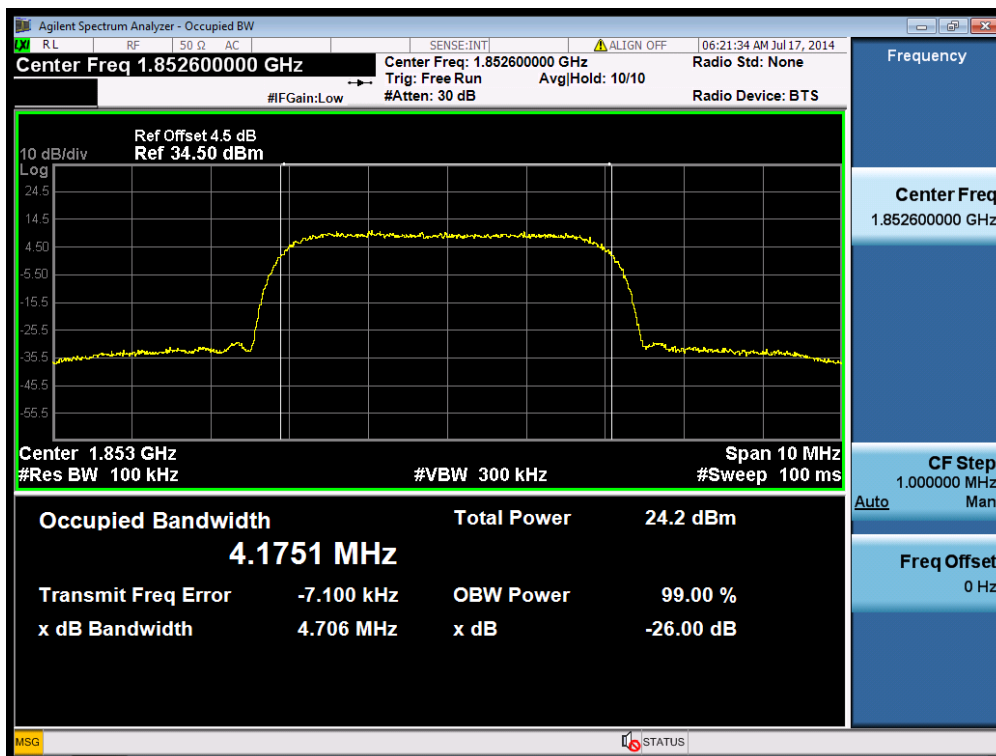
Test Channel=HCH



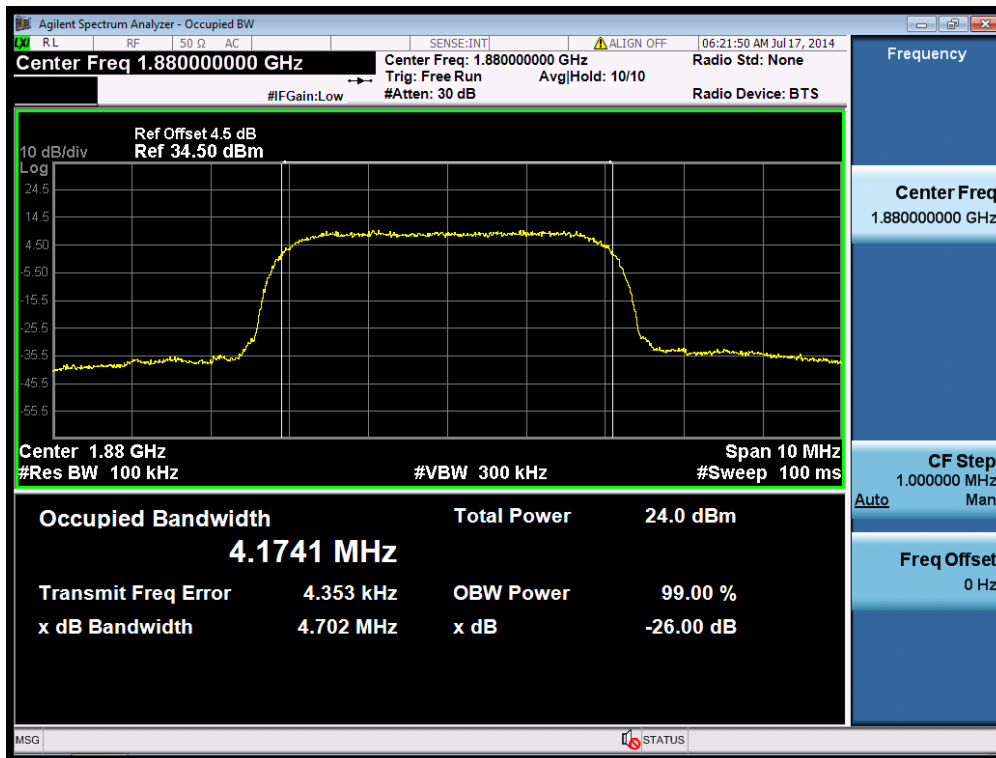
## Test Band=WCDMA1900

Test Mode=UMTS/TM1

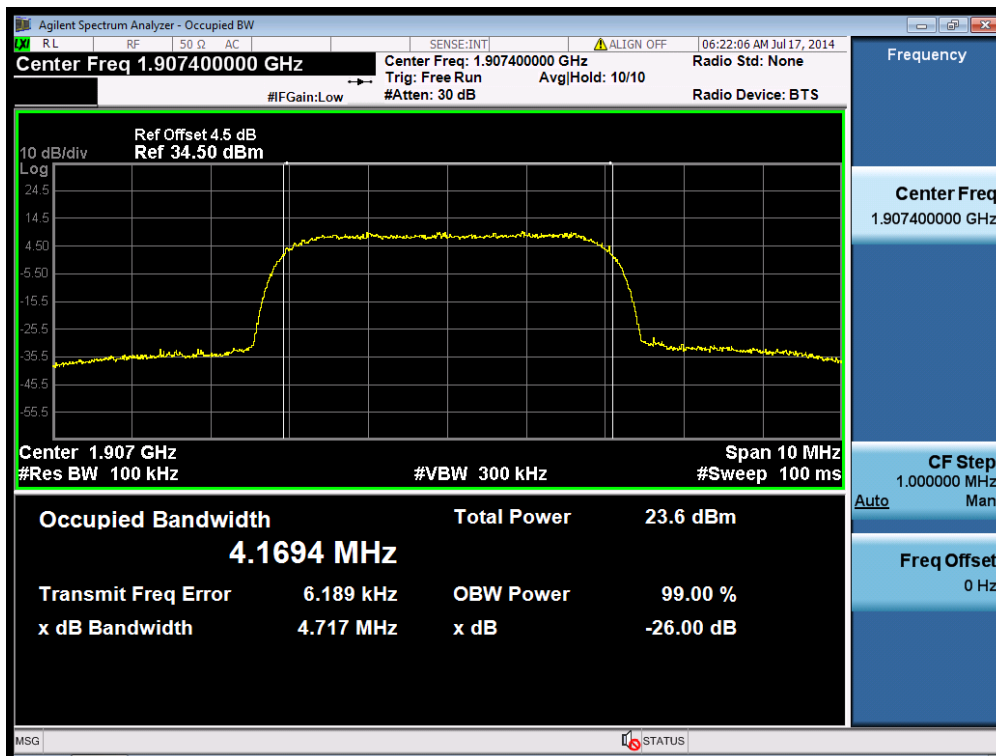
Test Channel=LCH



Test Channel=MCH



### Test Channel=HCH



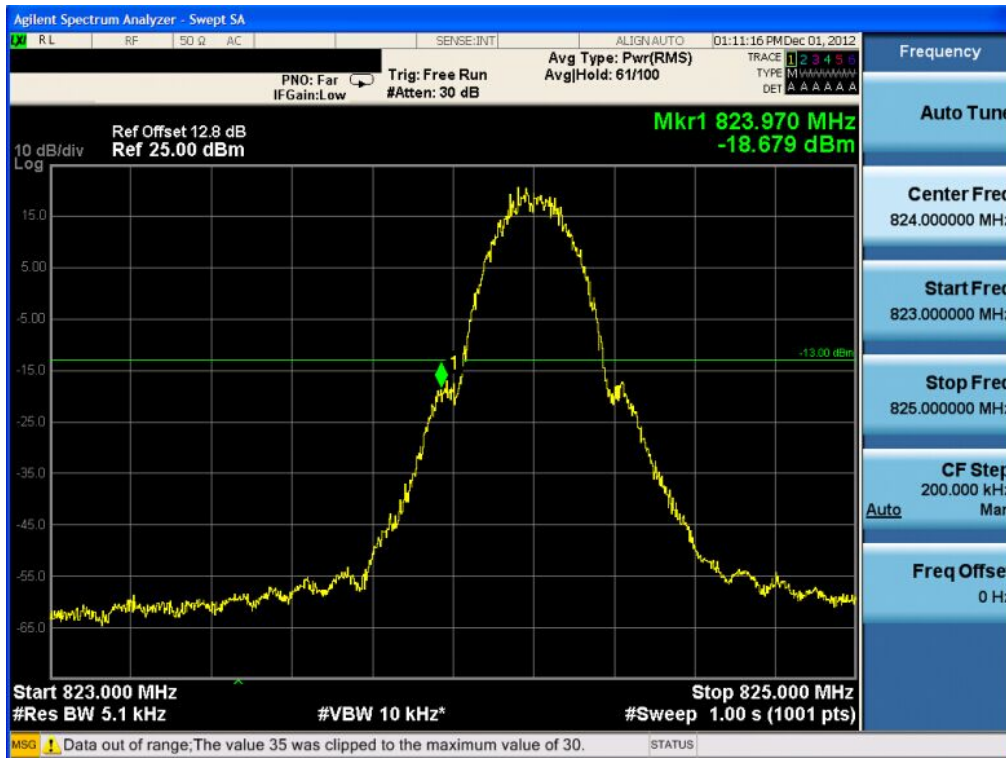
# Appendix E:Band Edges Compliance

## Test Results

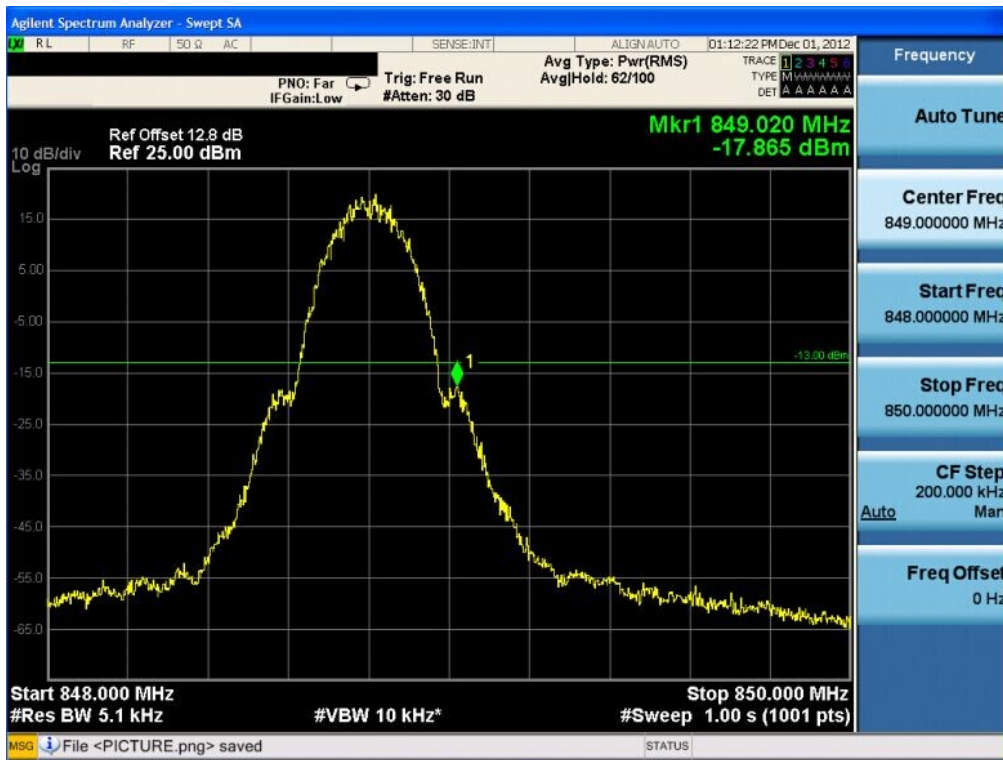
Test Band=GSM850

Test Mode=GSM/TM1

Test Channel=LCH



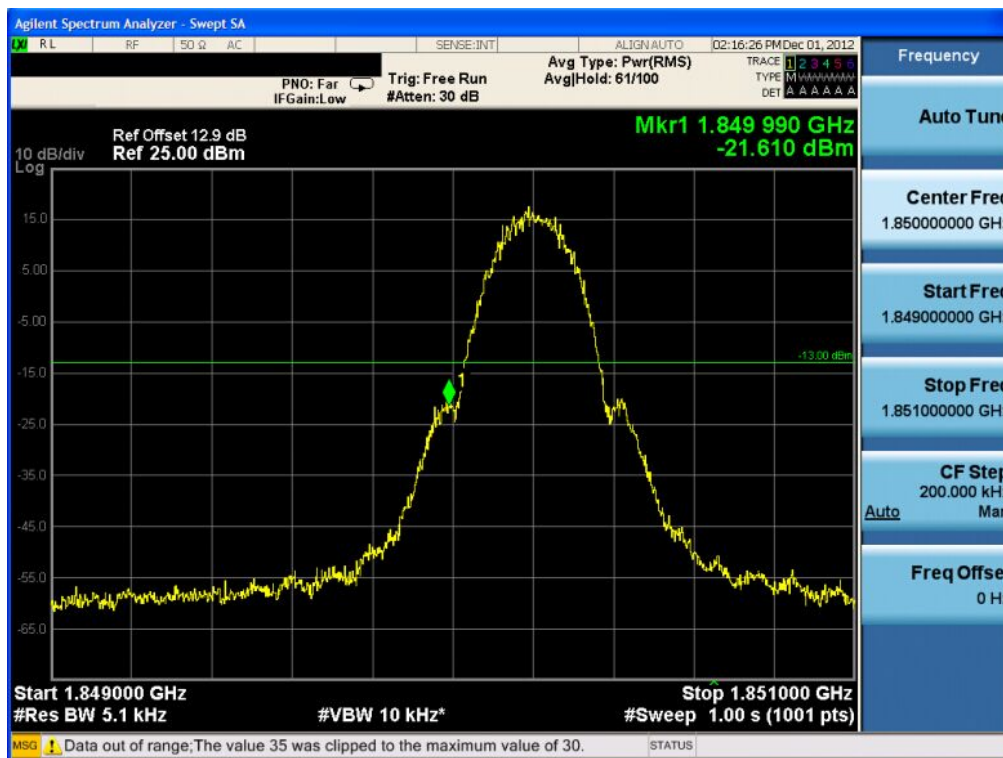
Test Channel=HCH



## Test Band=GSM1900

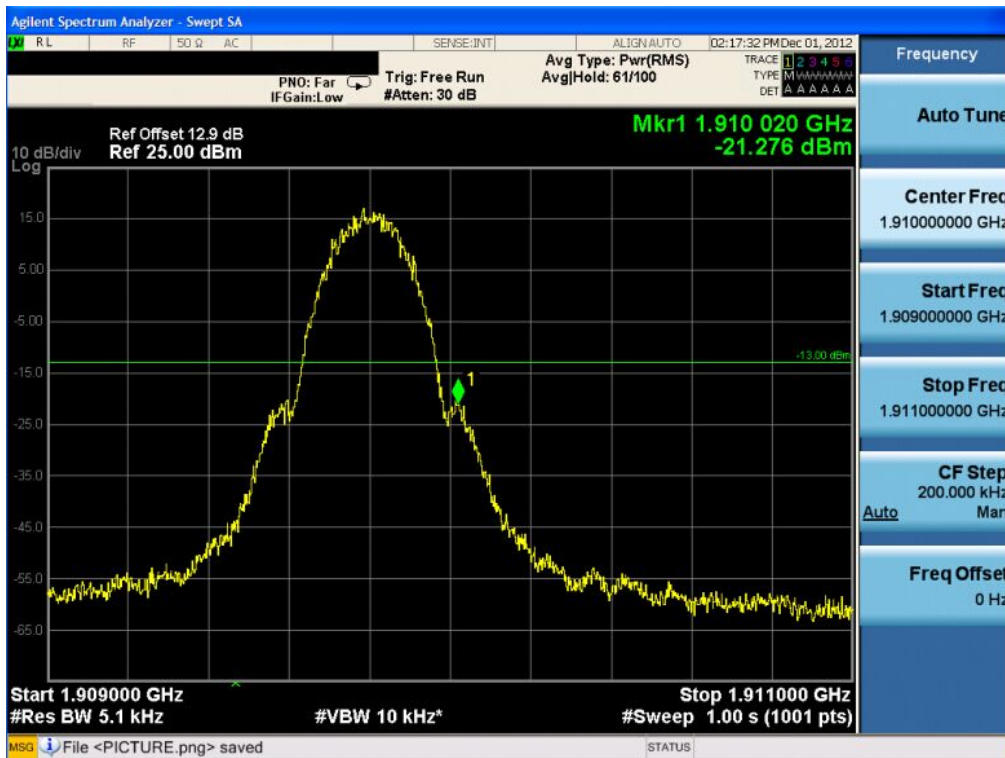
Test Mode=GSM/TM1

Test Channel=LCH



Test Channel=HCH



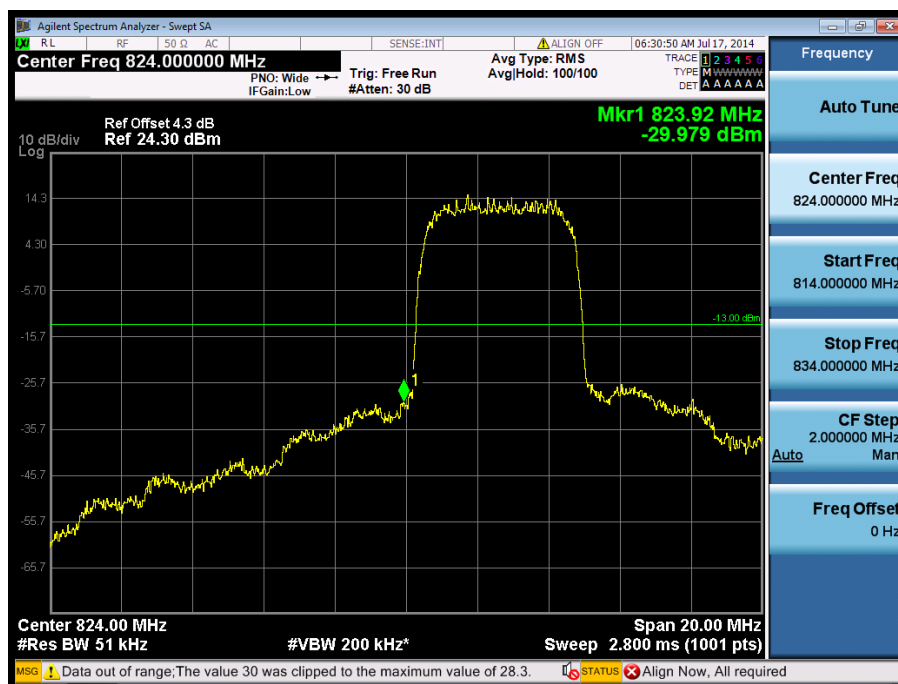


For WCDMA

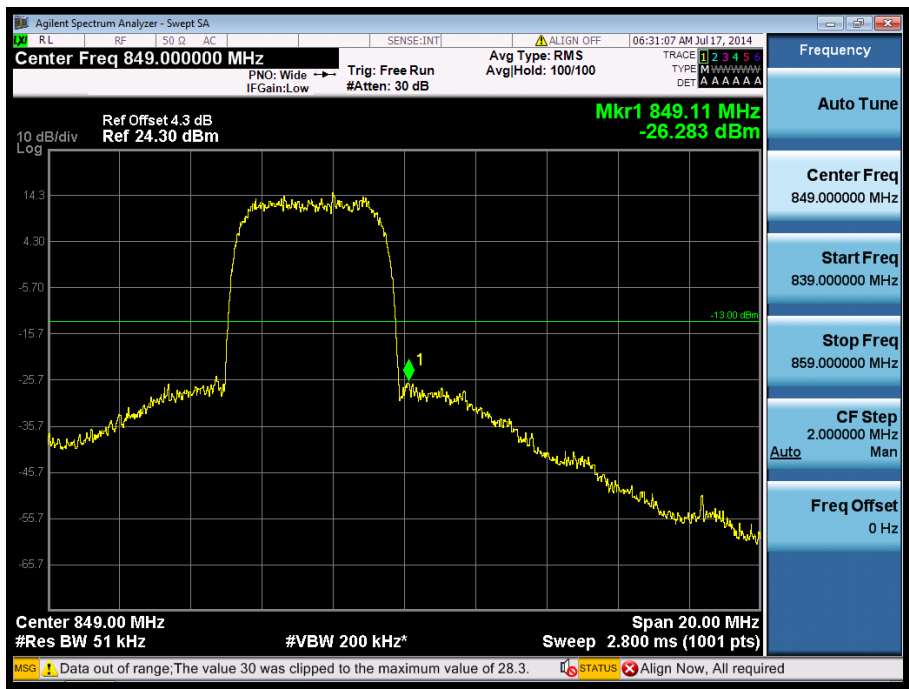
Test Band=WCDMA850

Test Mode=UMTS/TM1

Test Channel=LCH



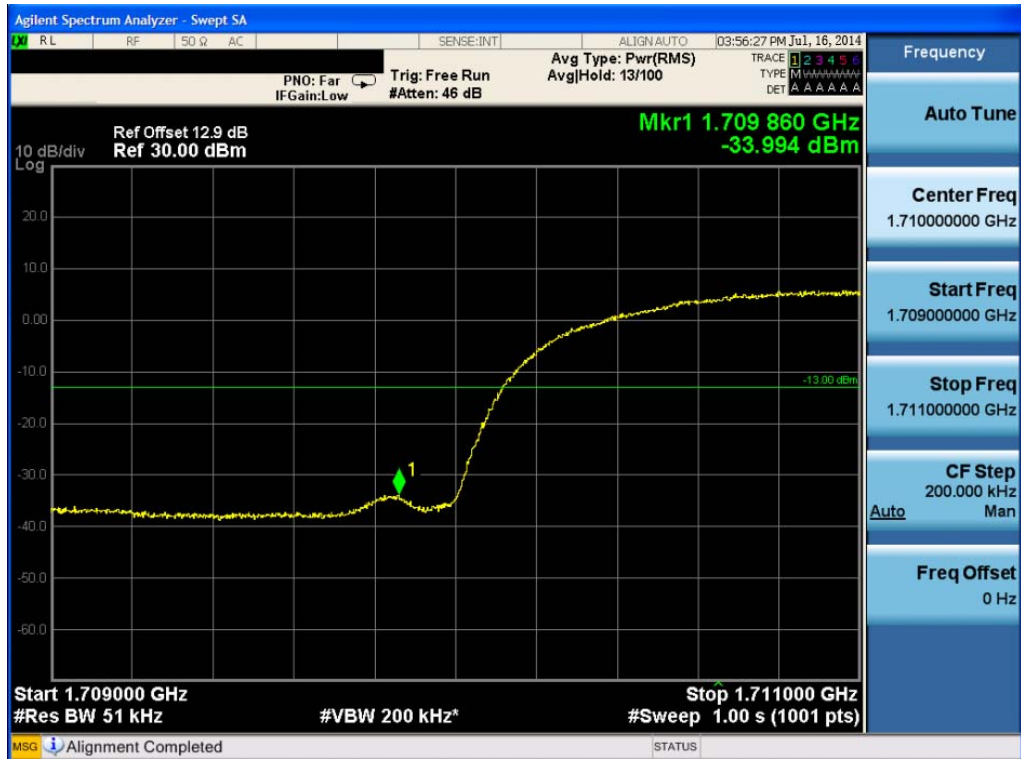
Test Channel=HCH



Test Band=WCDMA1700

Test Mode=UMTS/TM1

Test Channel=LCH



Test Channel=HCH

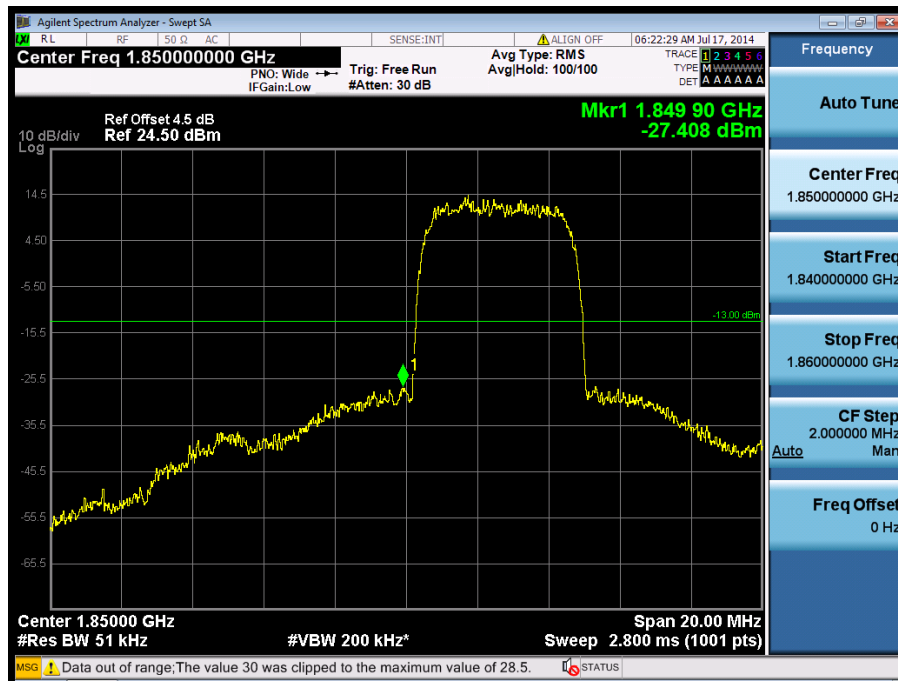




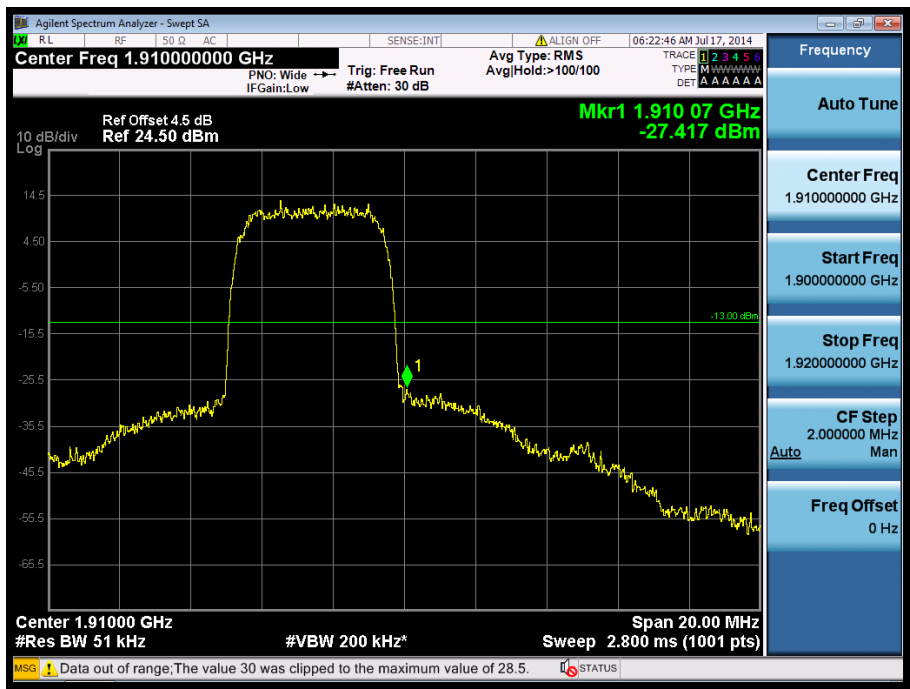
## Test Band=WCDMA1900

Test Mode=UMTSTM1

Test Channel=LCH



Test Channel=HCH



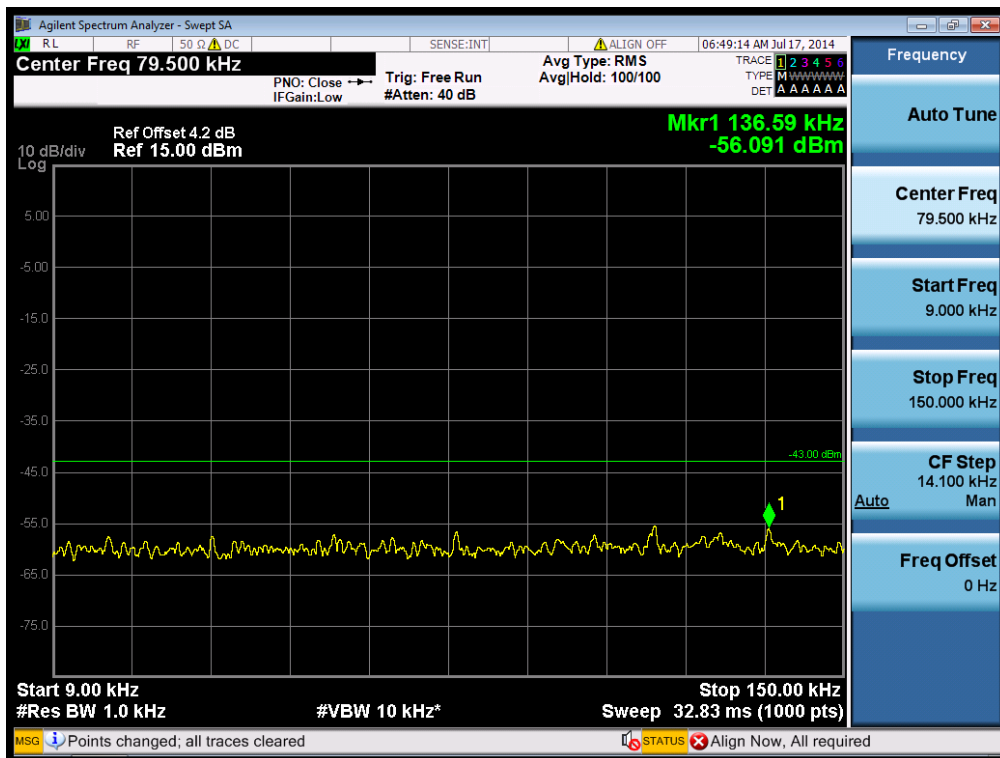
# Appendix F: Spurious Emission at Antenna Terminal

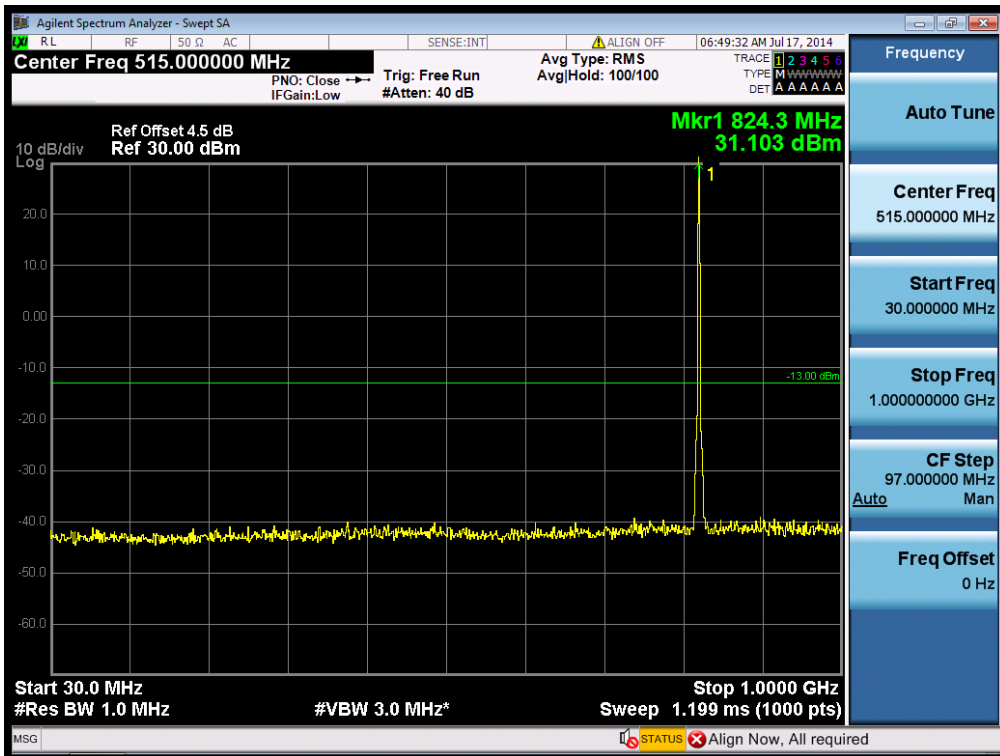
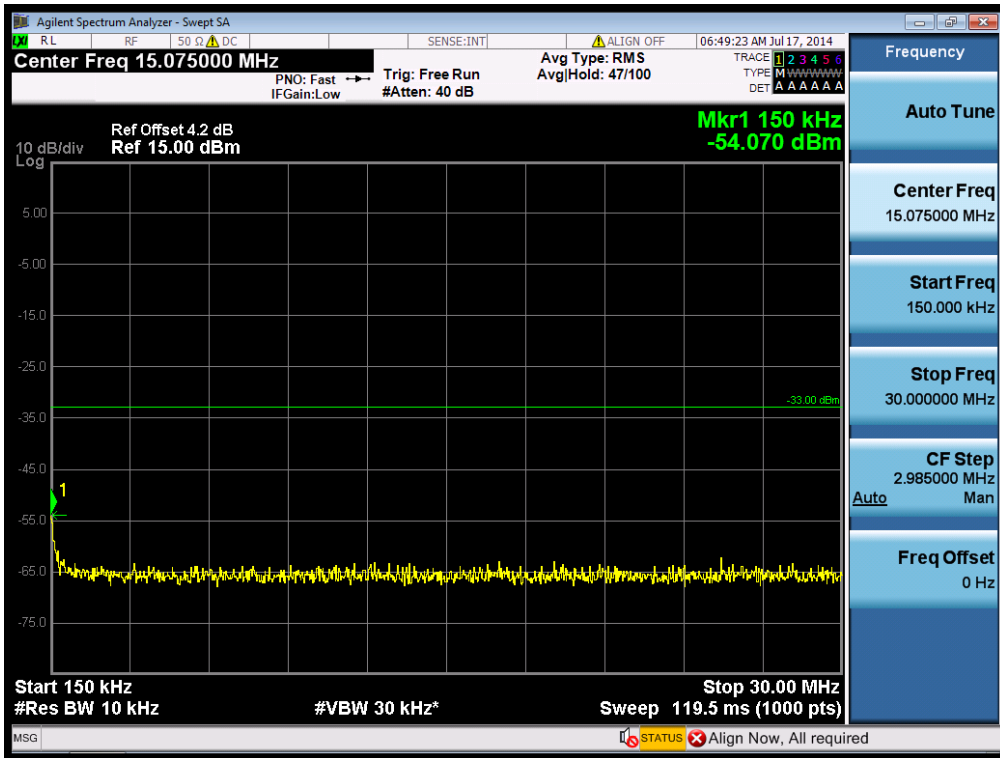
## Test Results

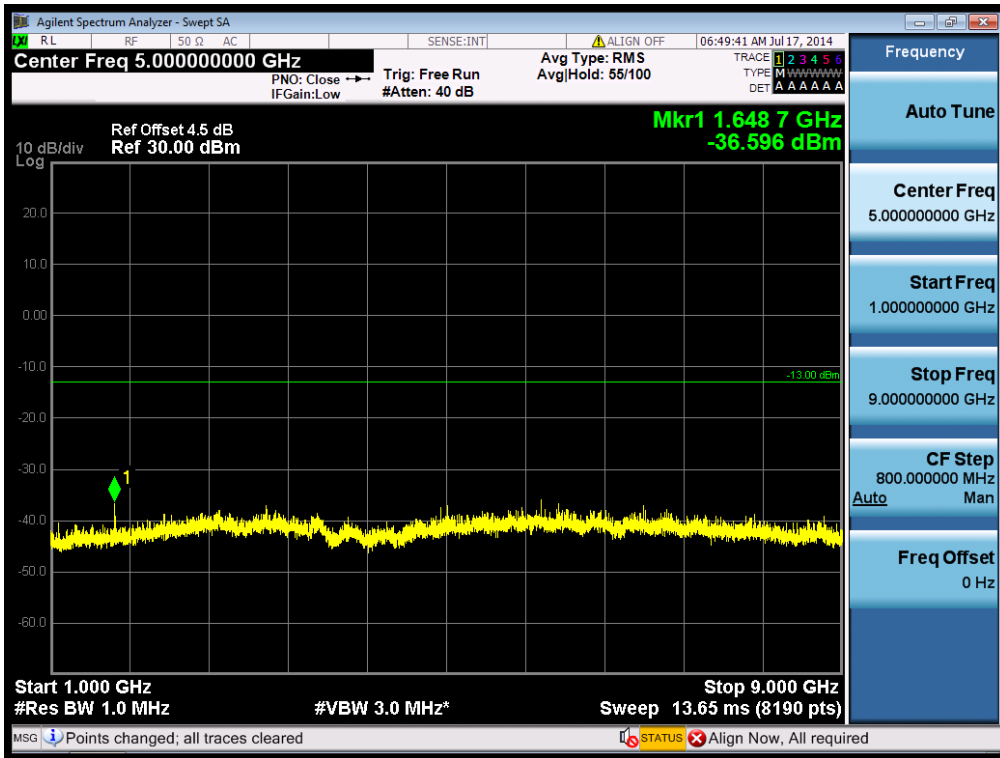
Test Band=GSM850

Test Mode=GSM/TM1

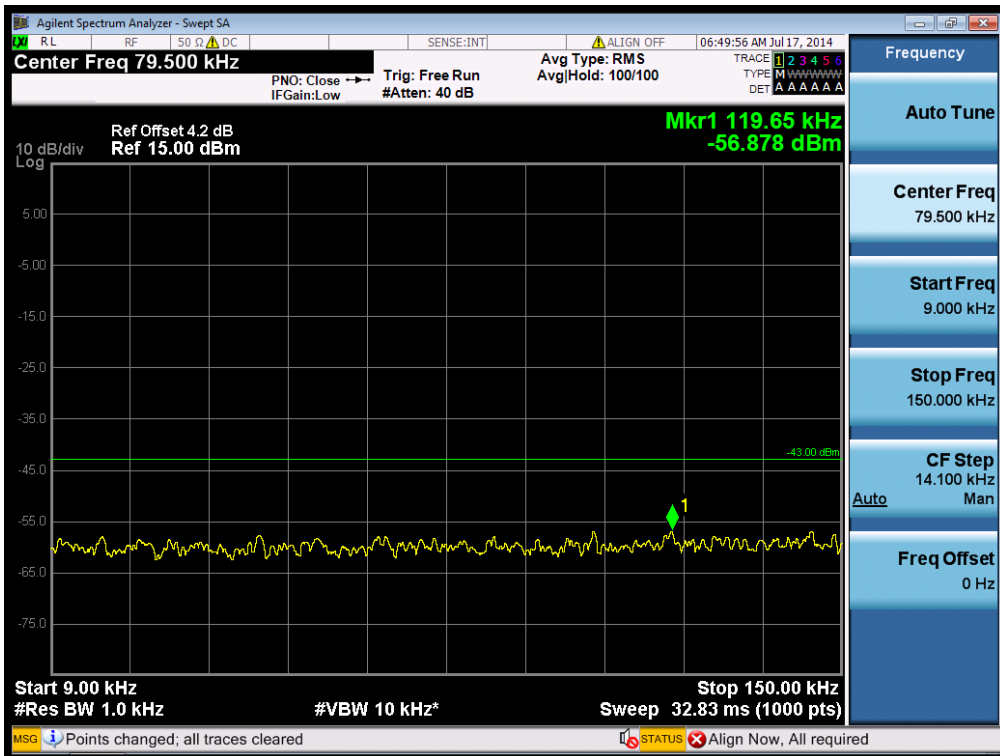
Test Channel=LCH

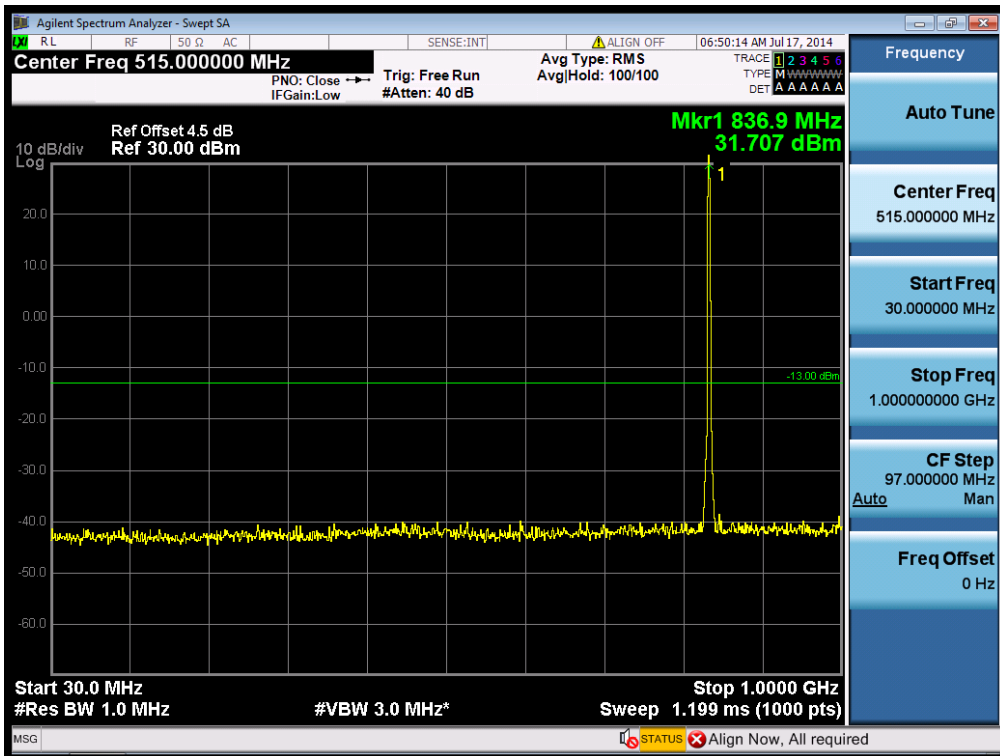
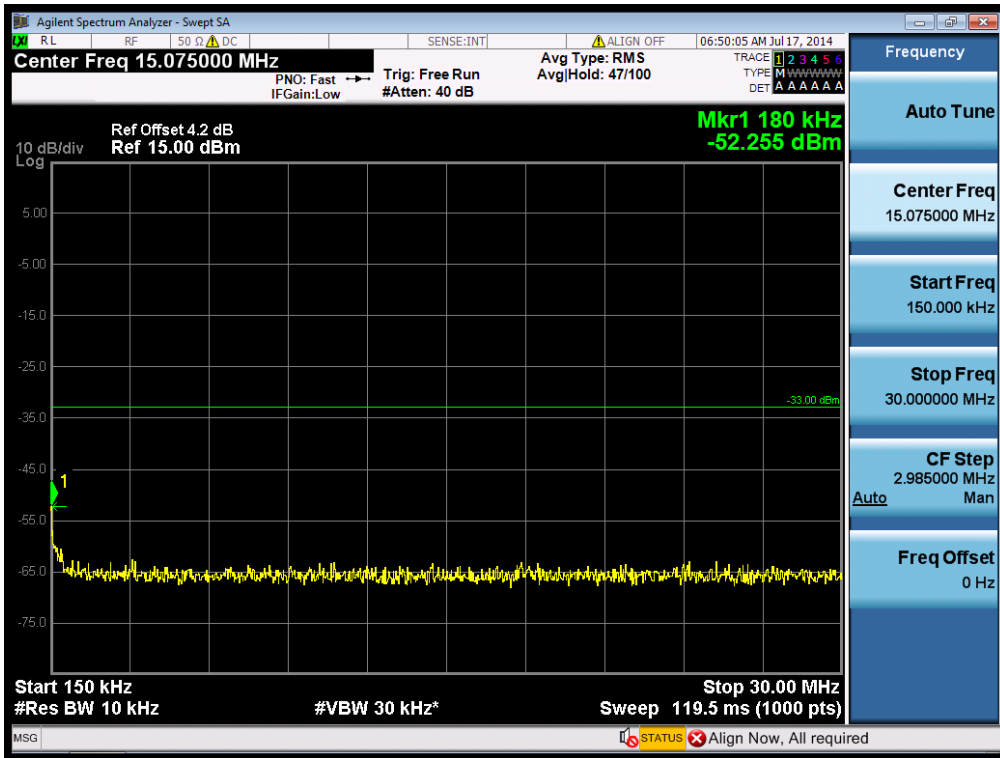


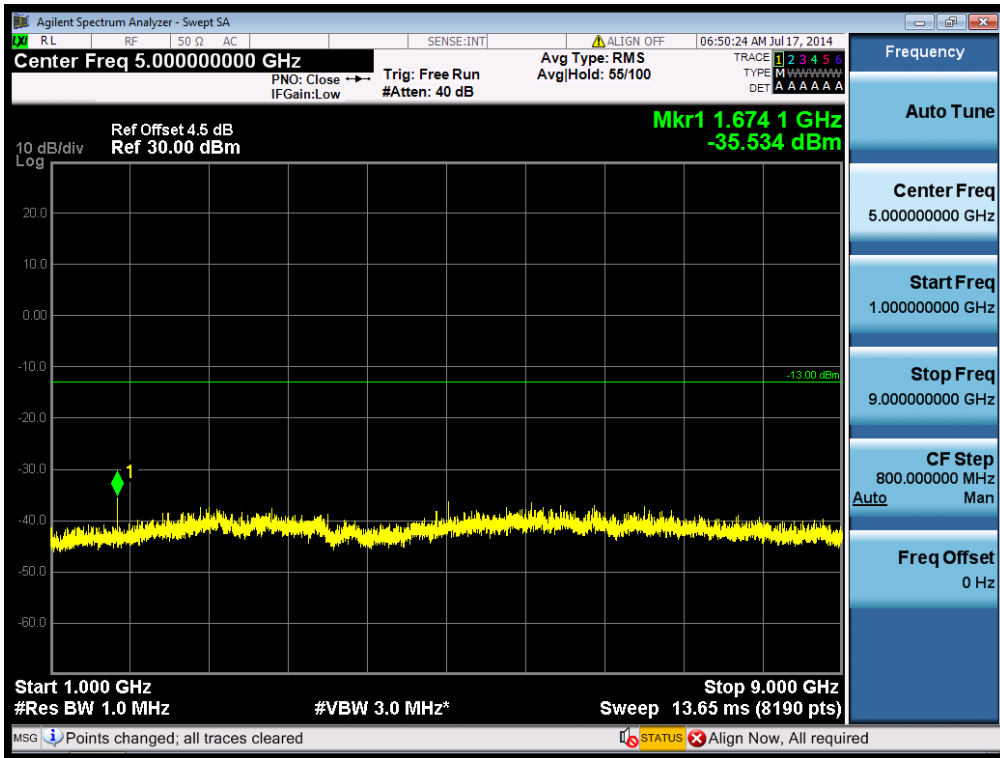




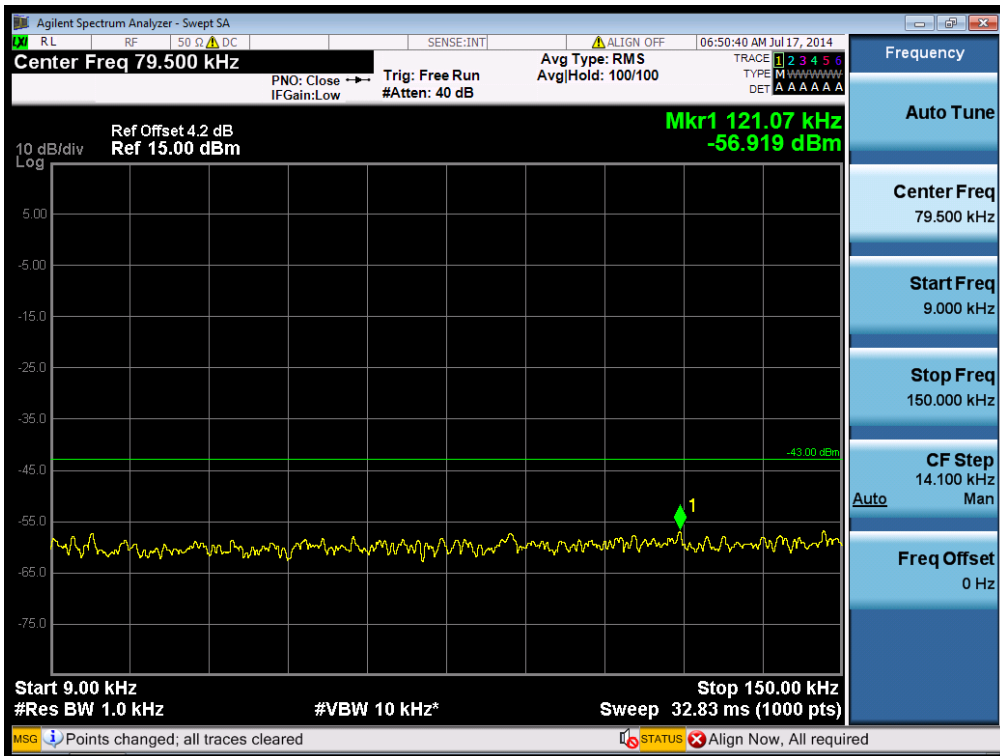
Test Channel=MCH

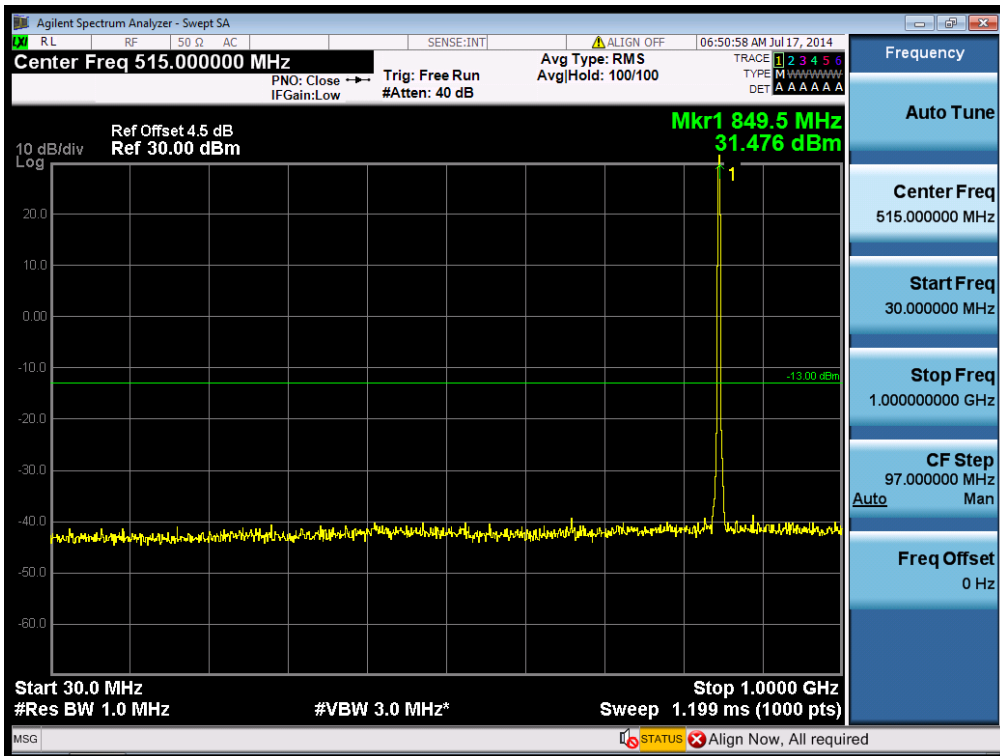
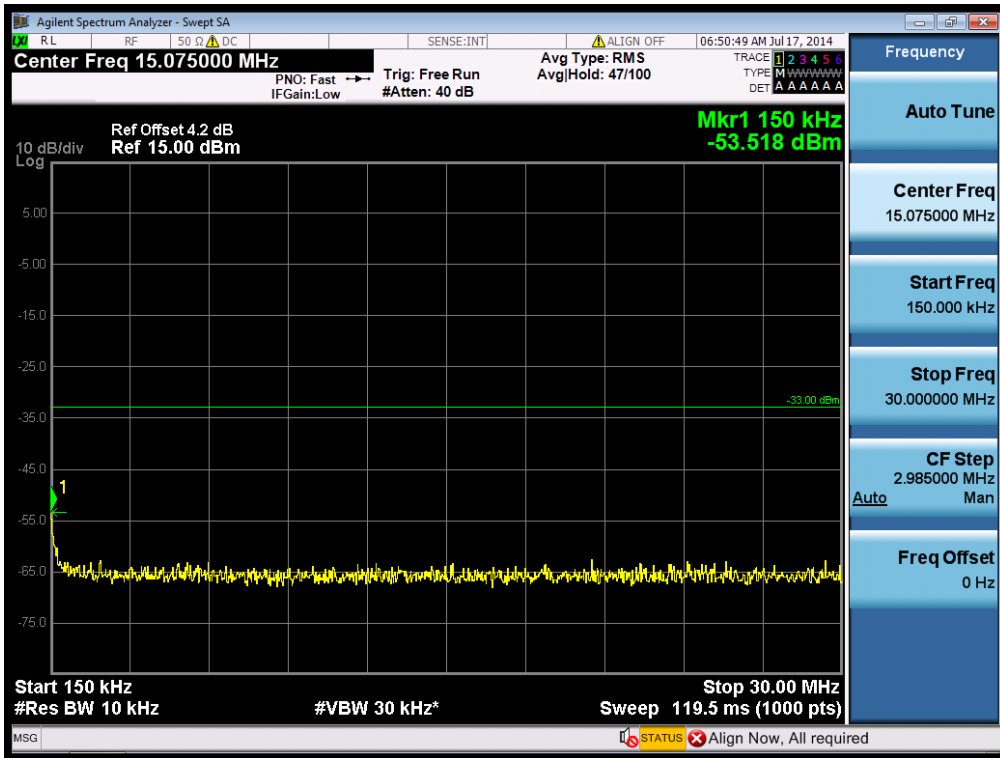




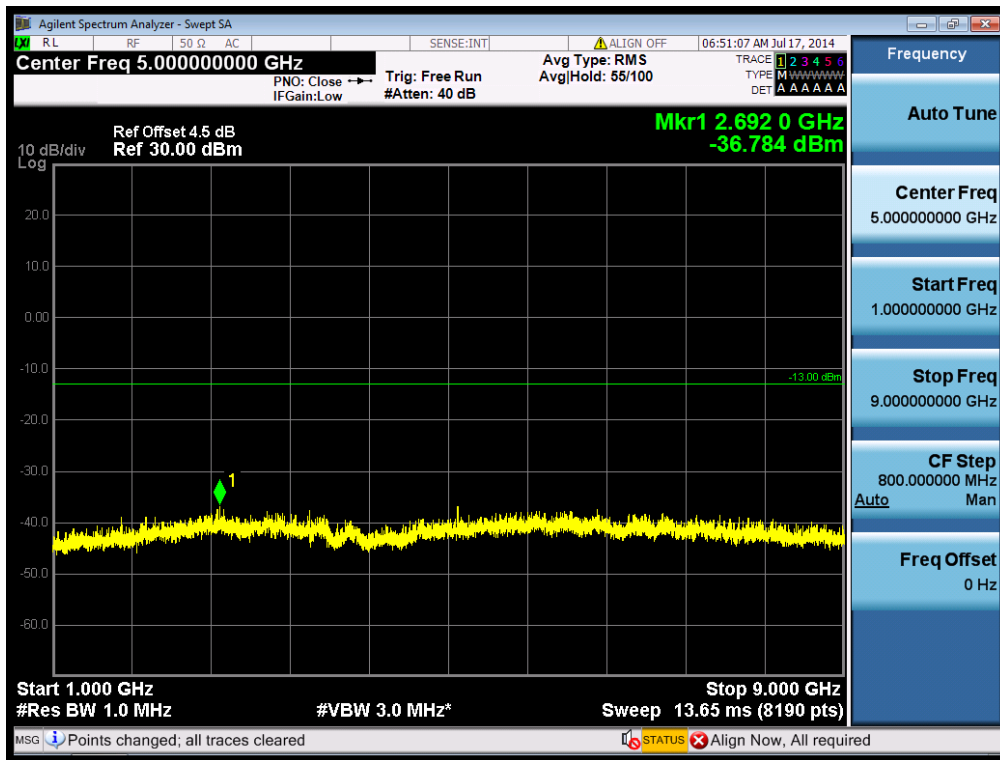


Test Channel=HCH



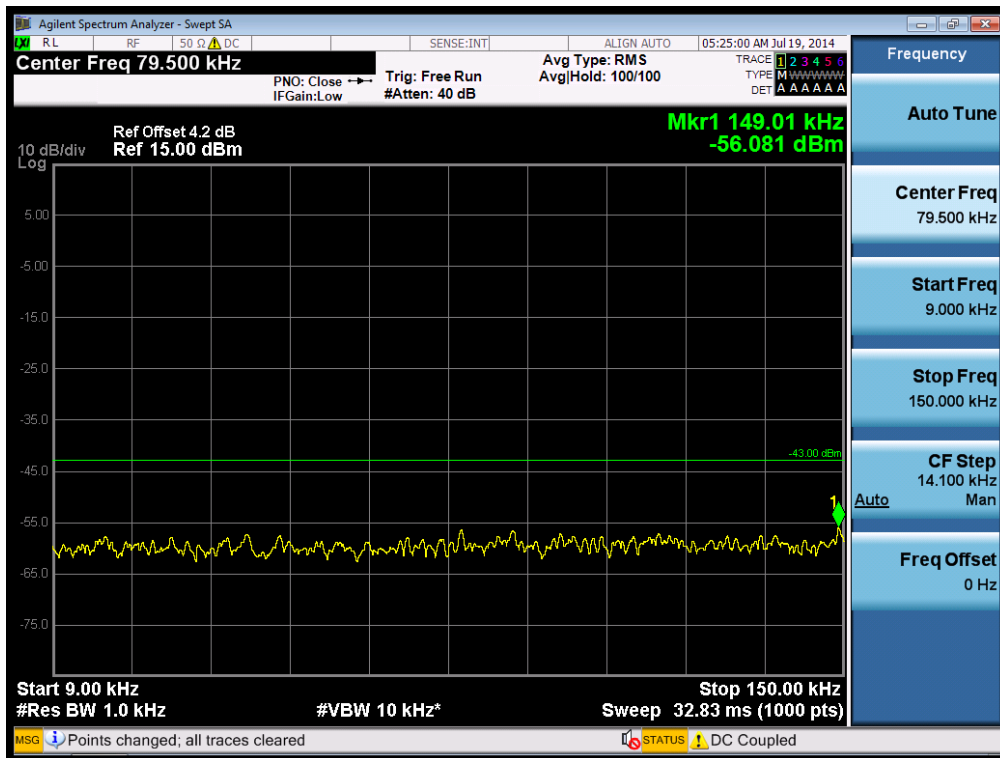


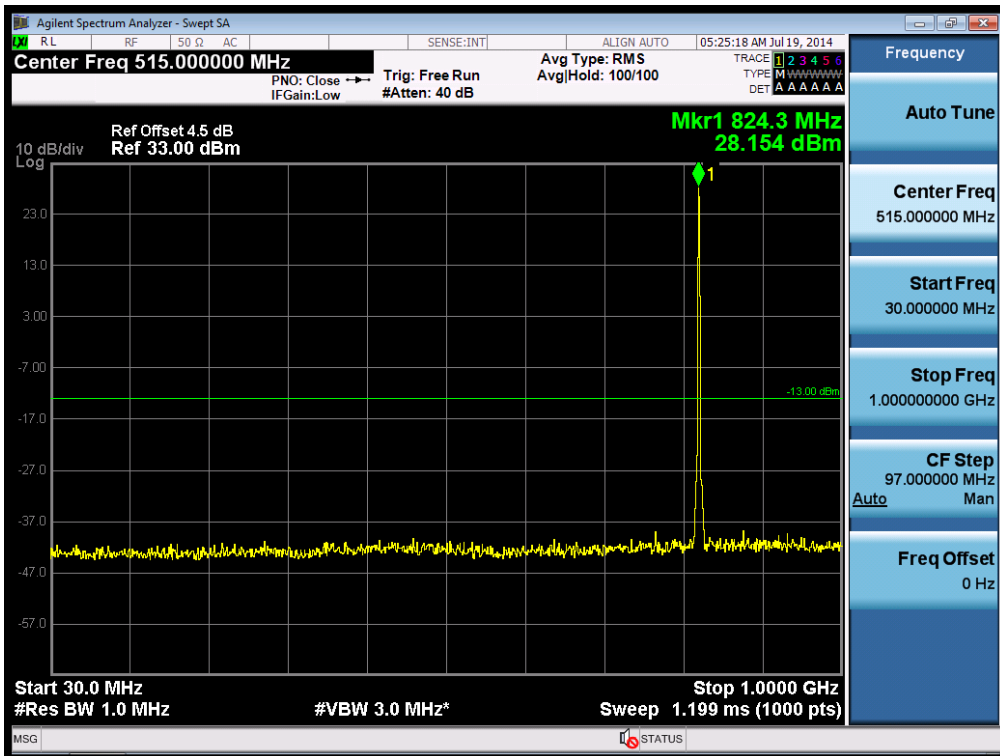
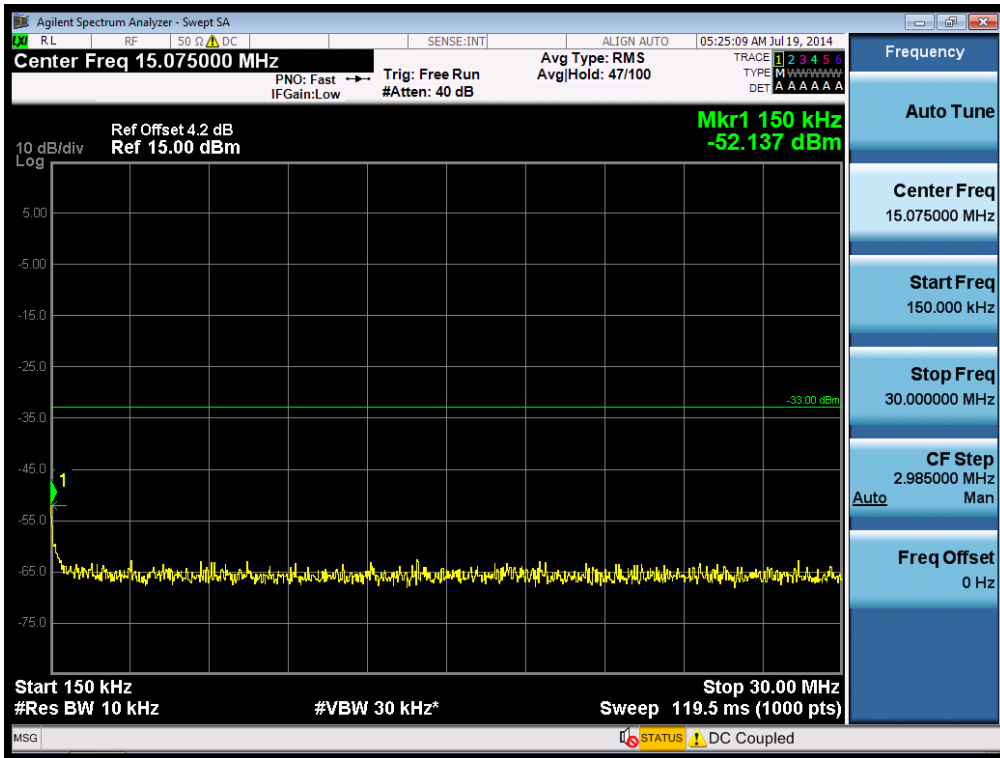


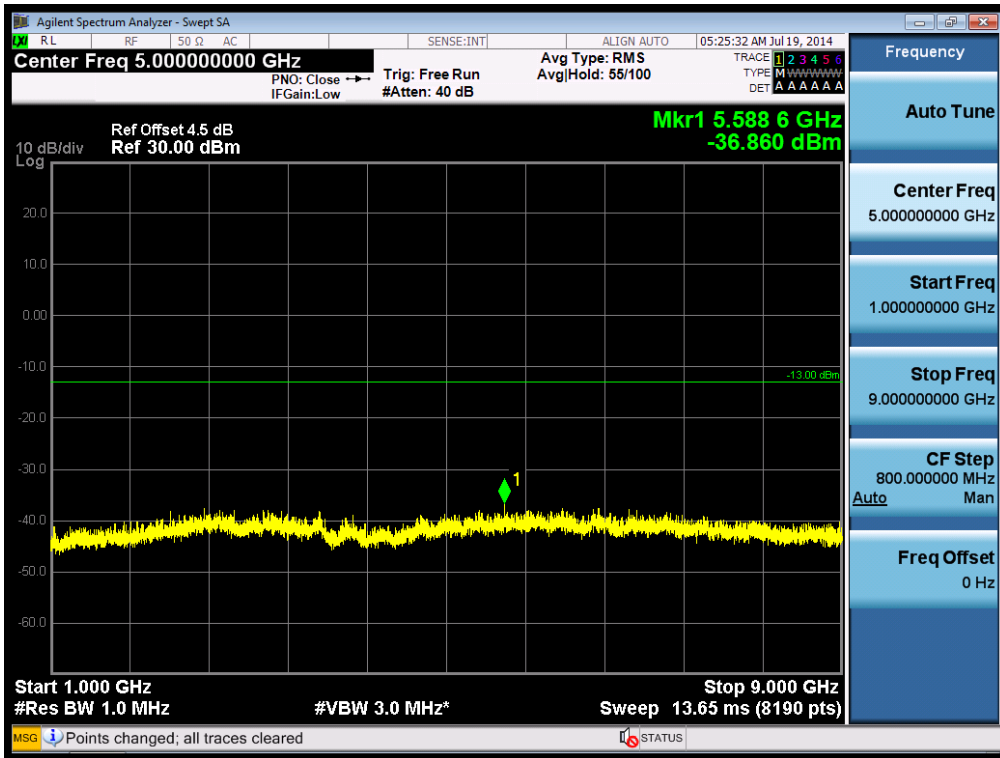


Test Mode=GSM/TM2

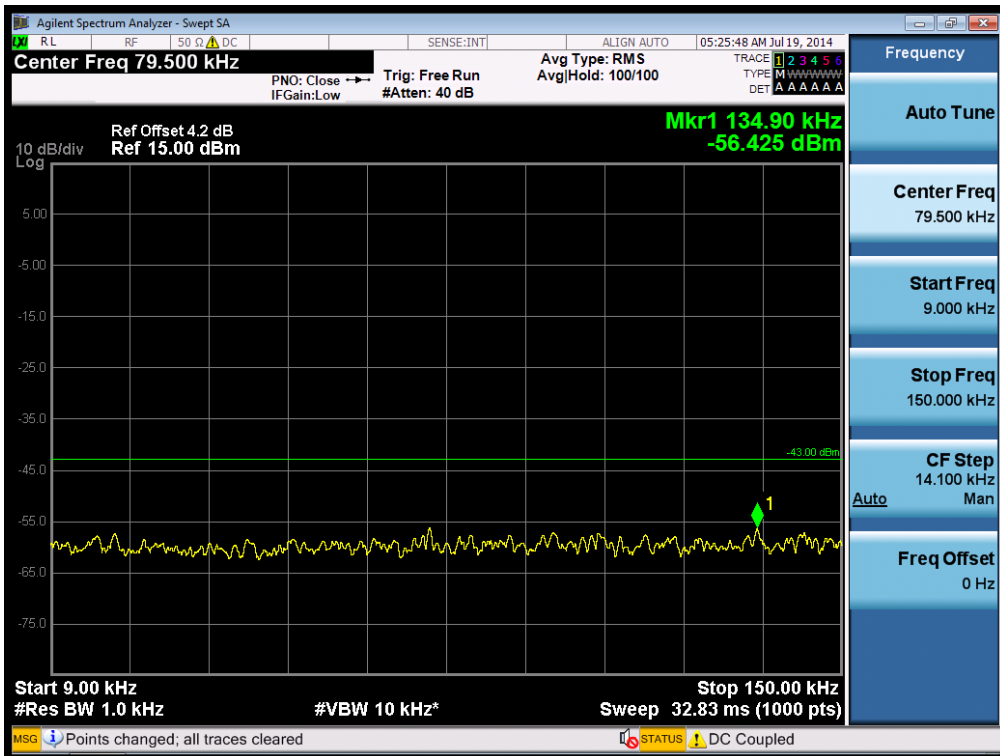
Test Channel=LCH

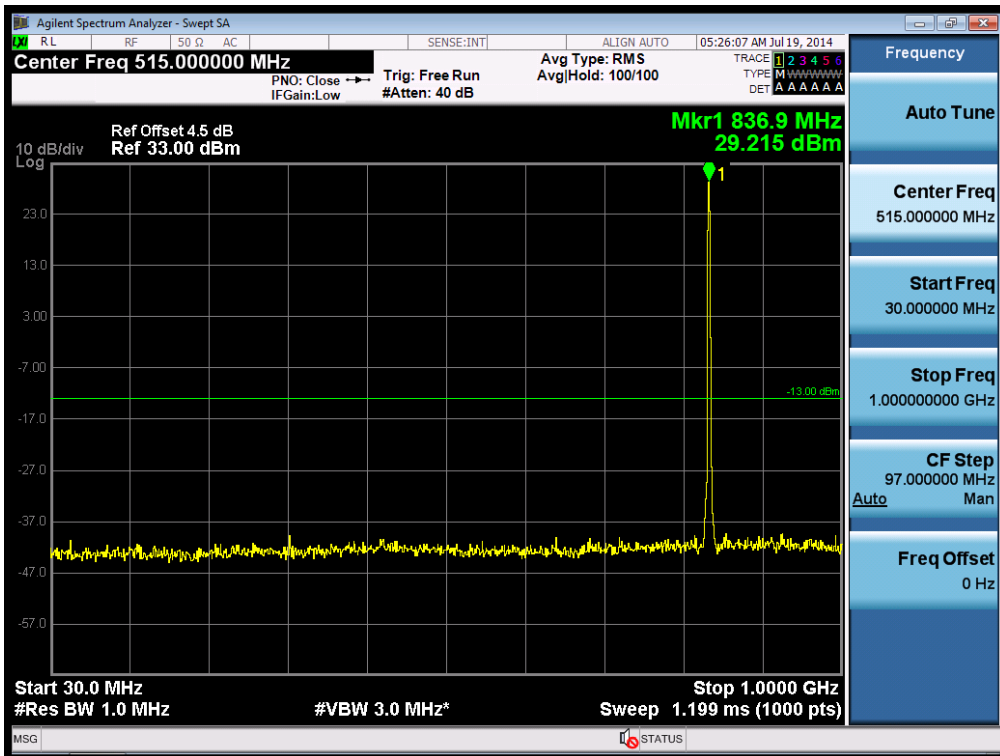
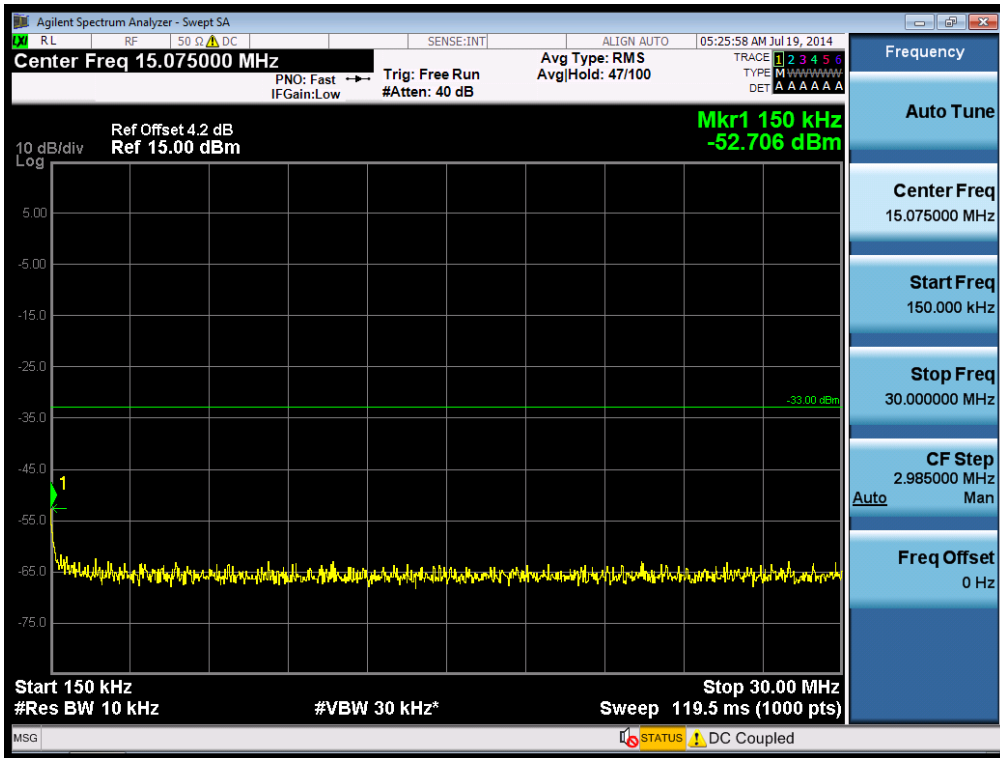


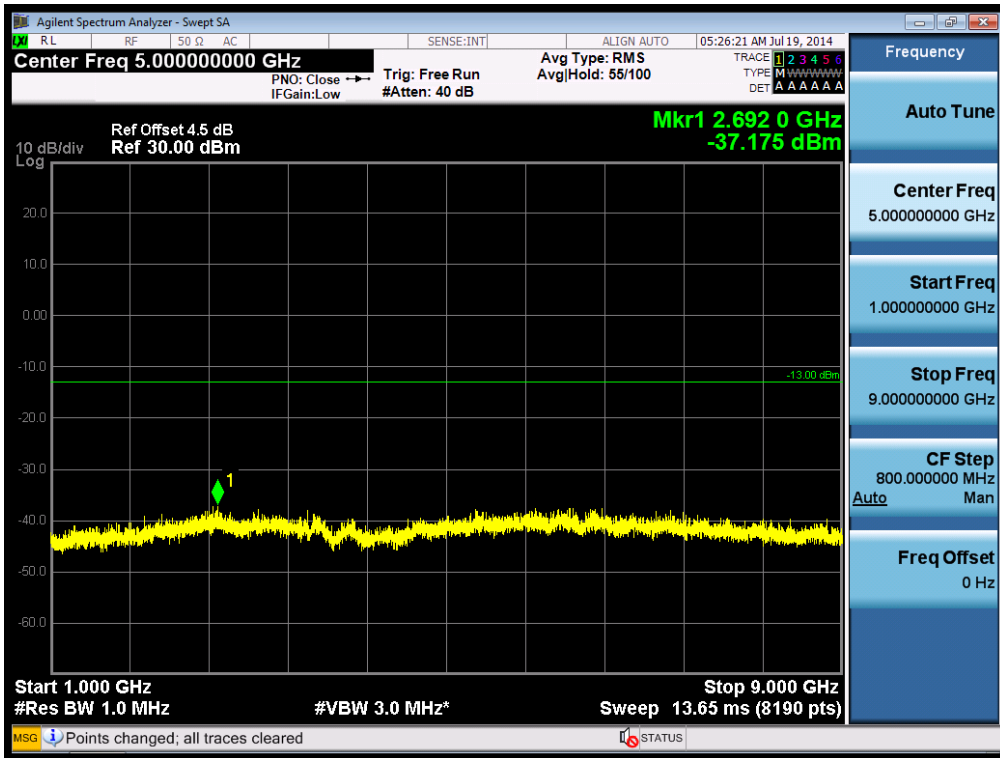




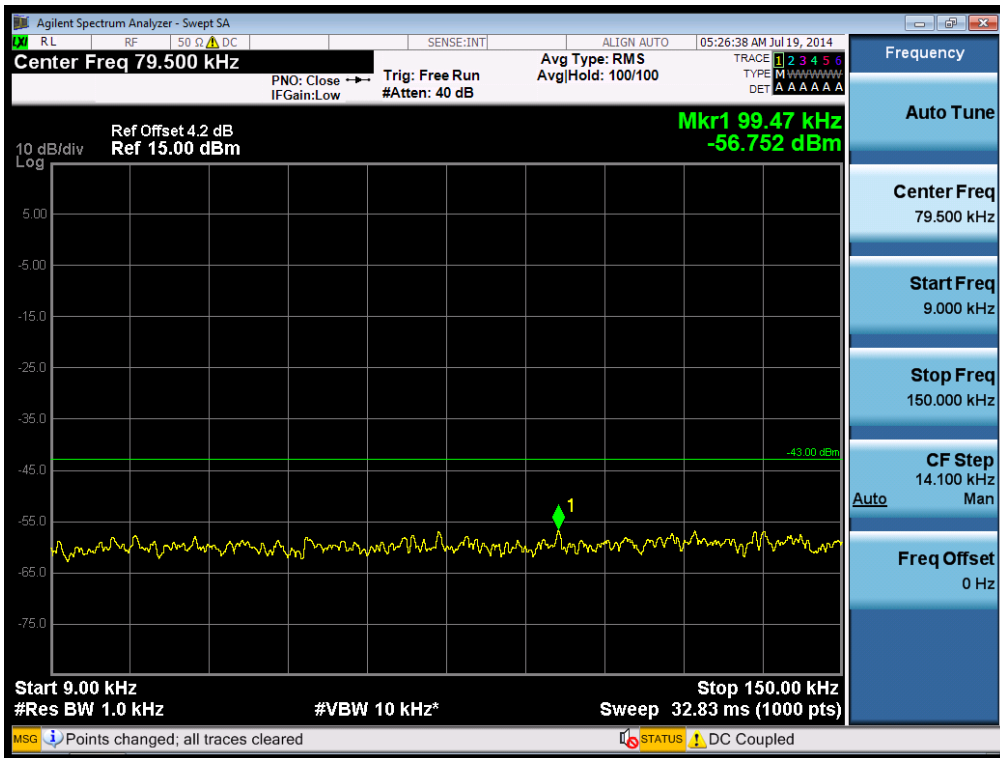
Test Channel=MCH

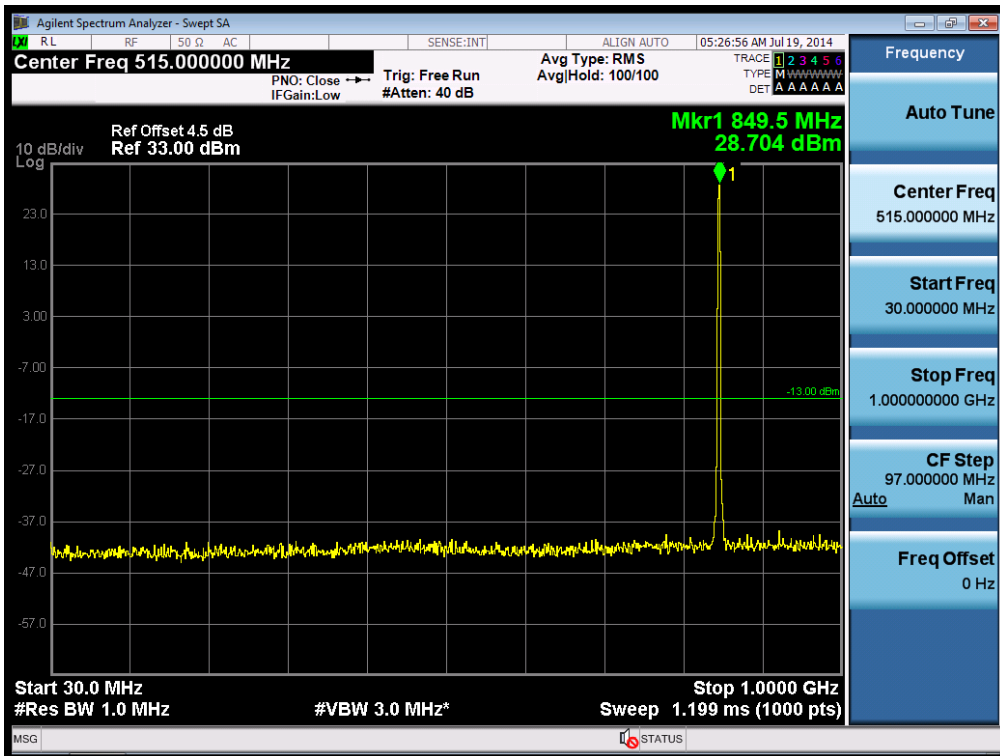
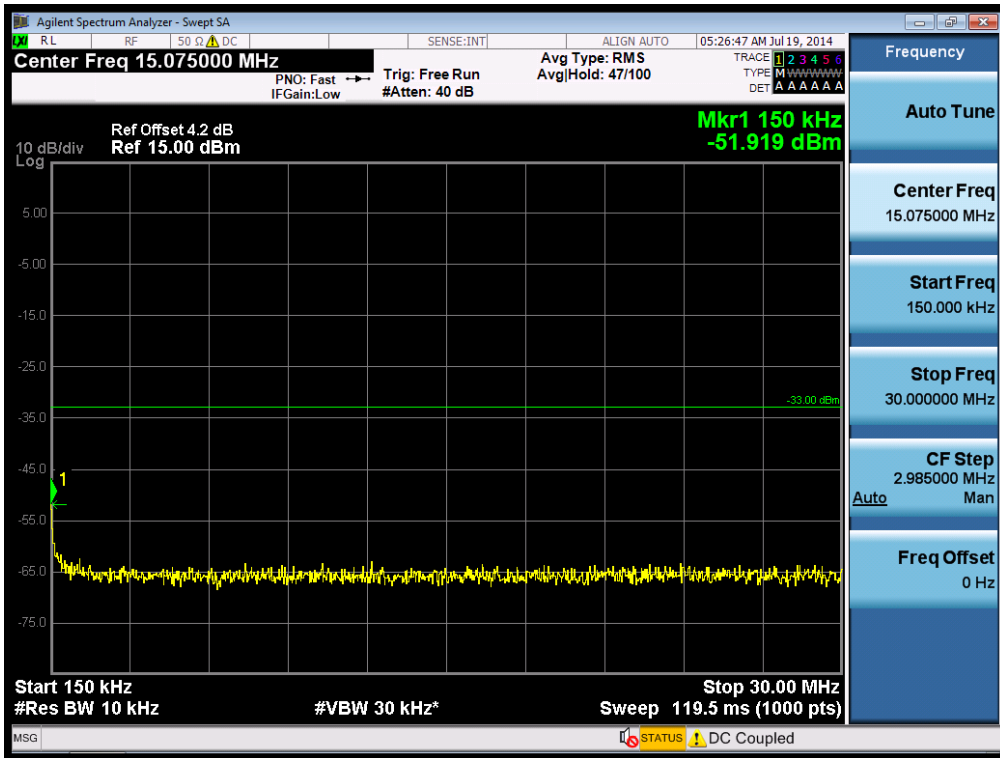


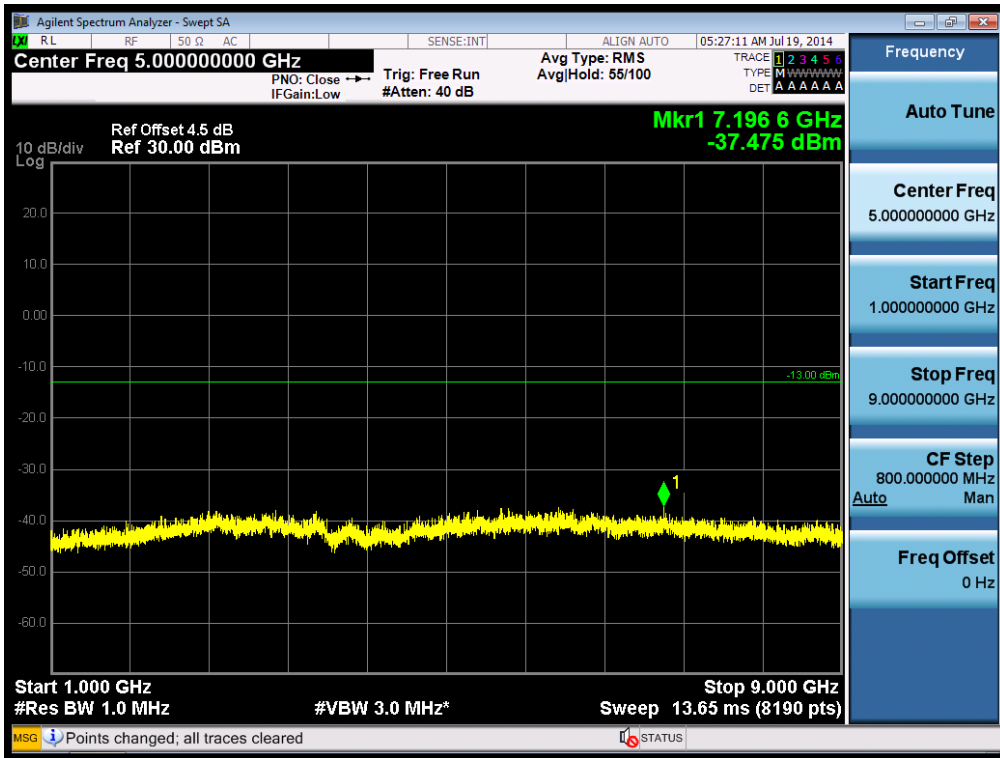




Test Channel=HCH



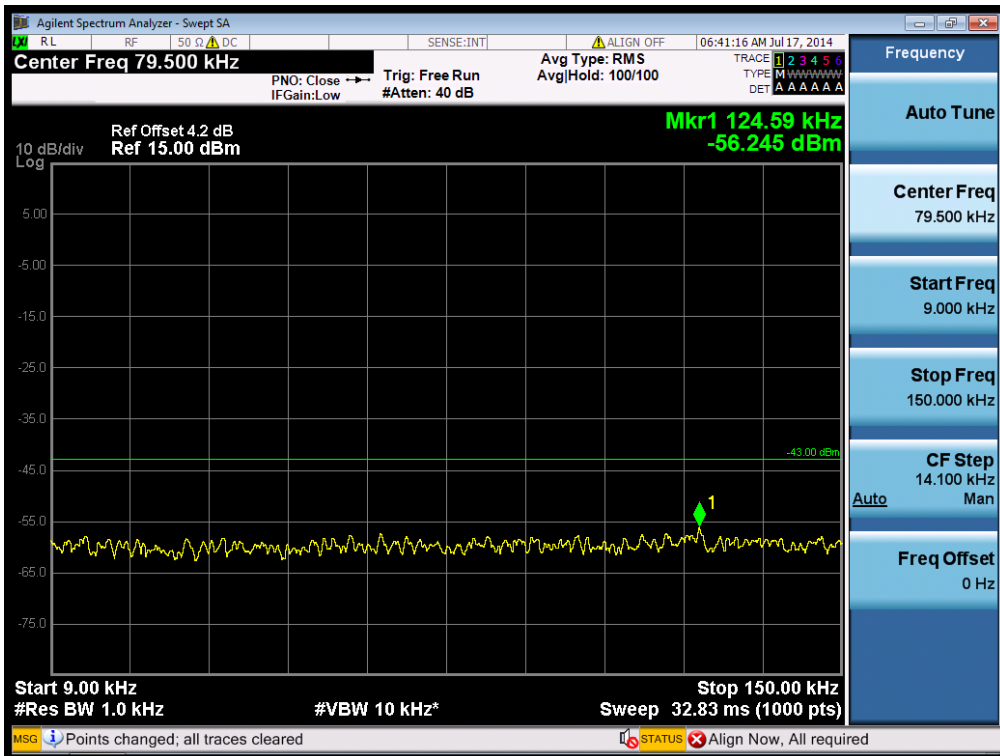


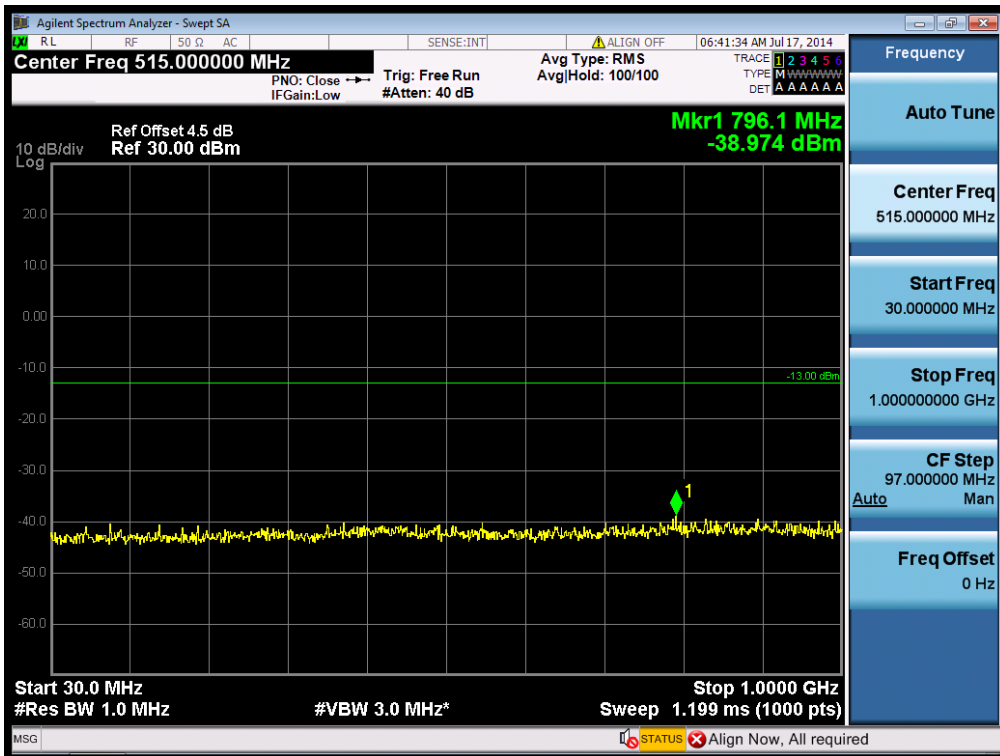
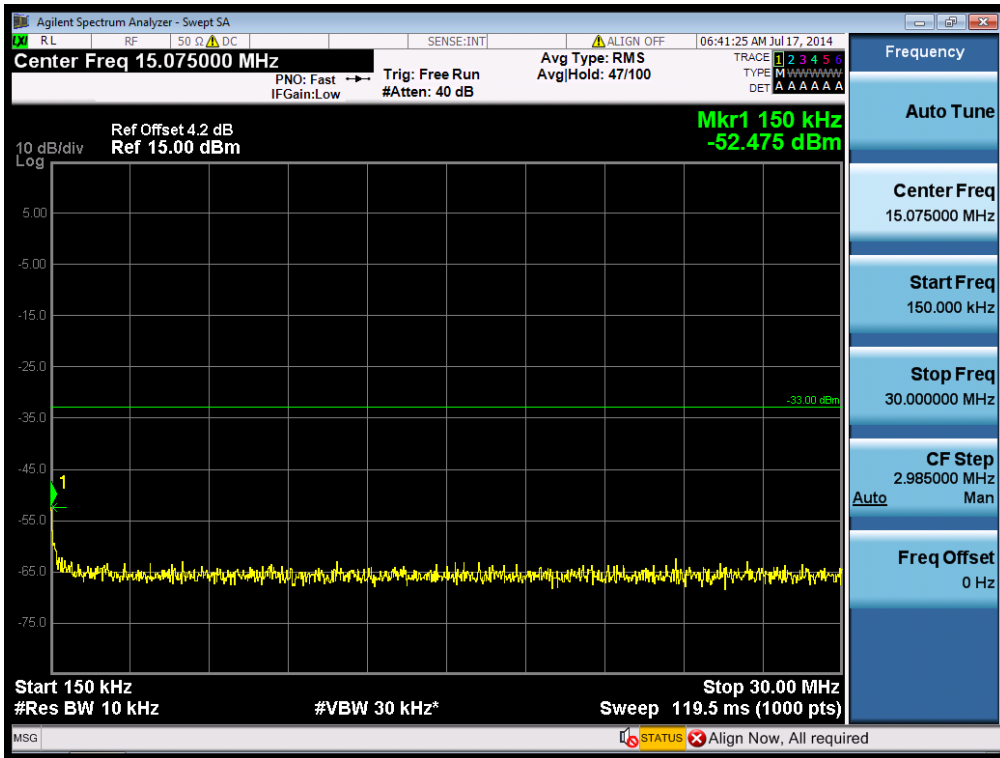


Test Band=GSM1900

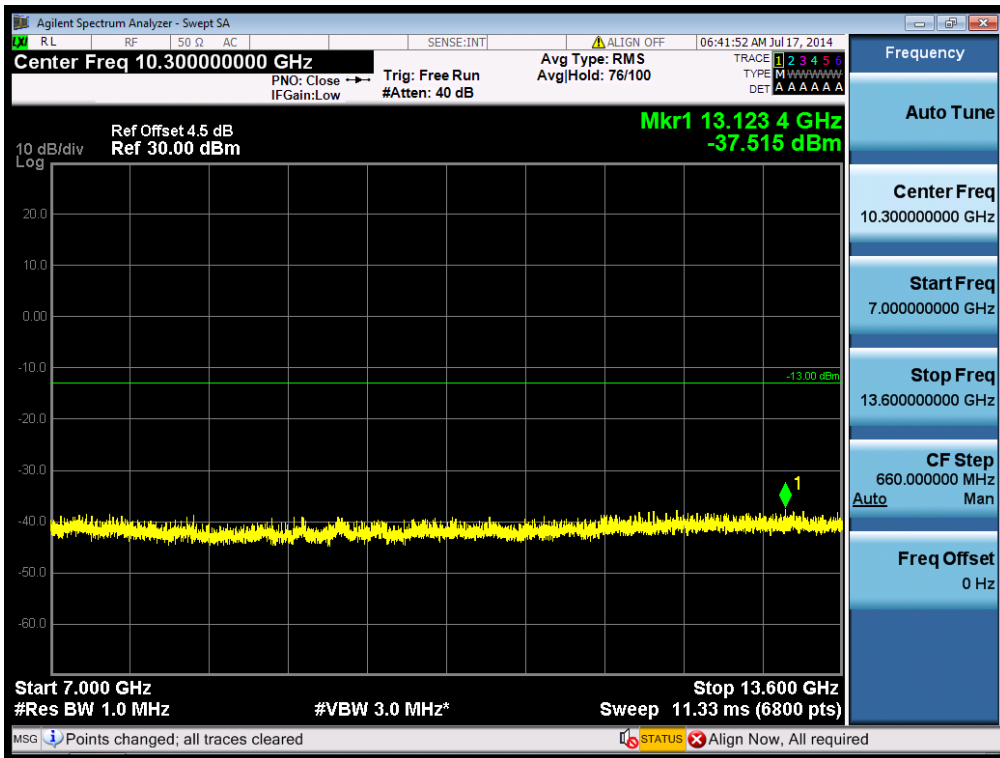
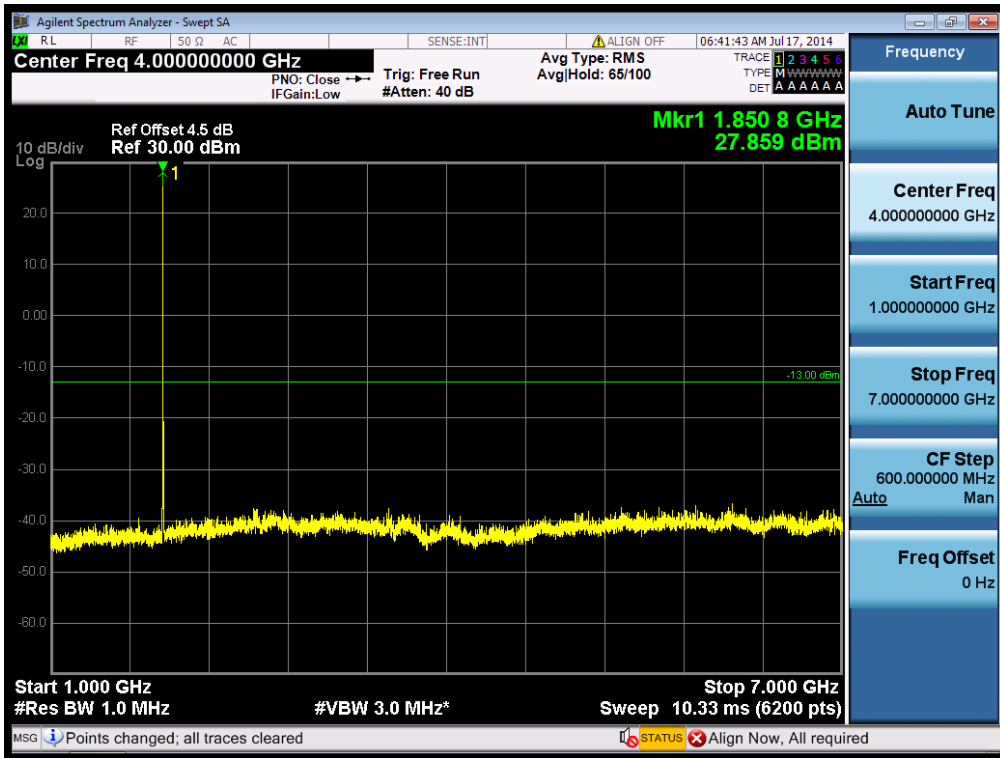
Test Mode=GSM/TM1

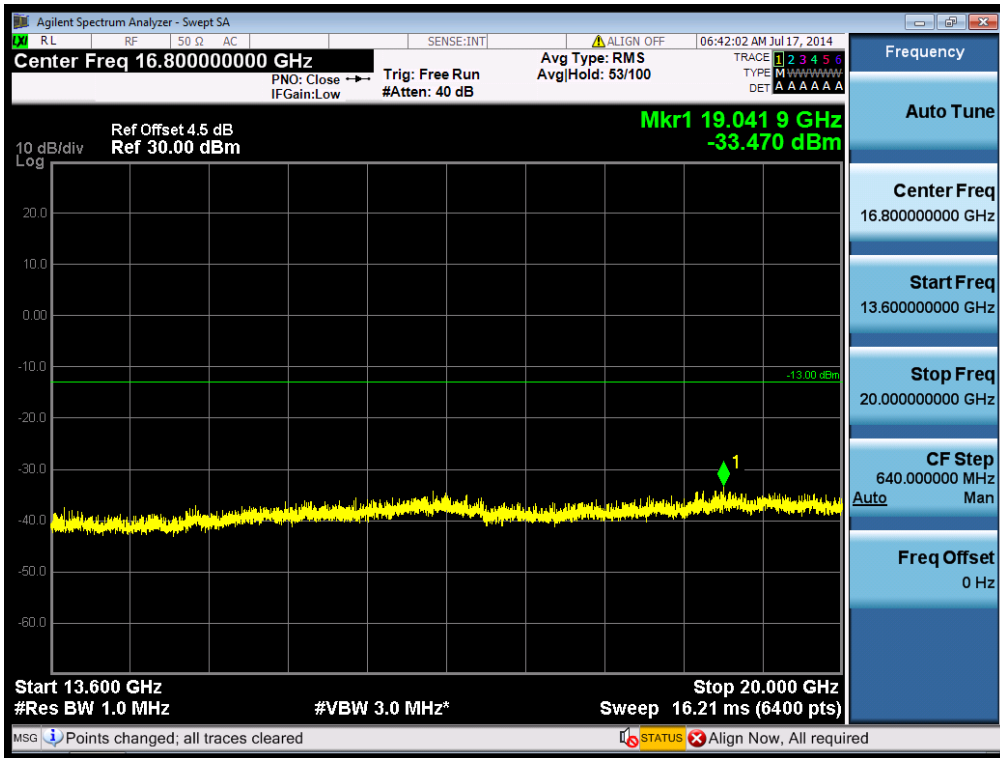
Test Channel=LCH



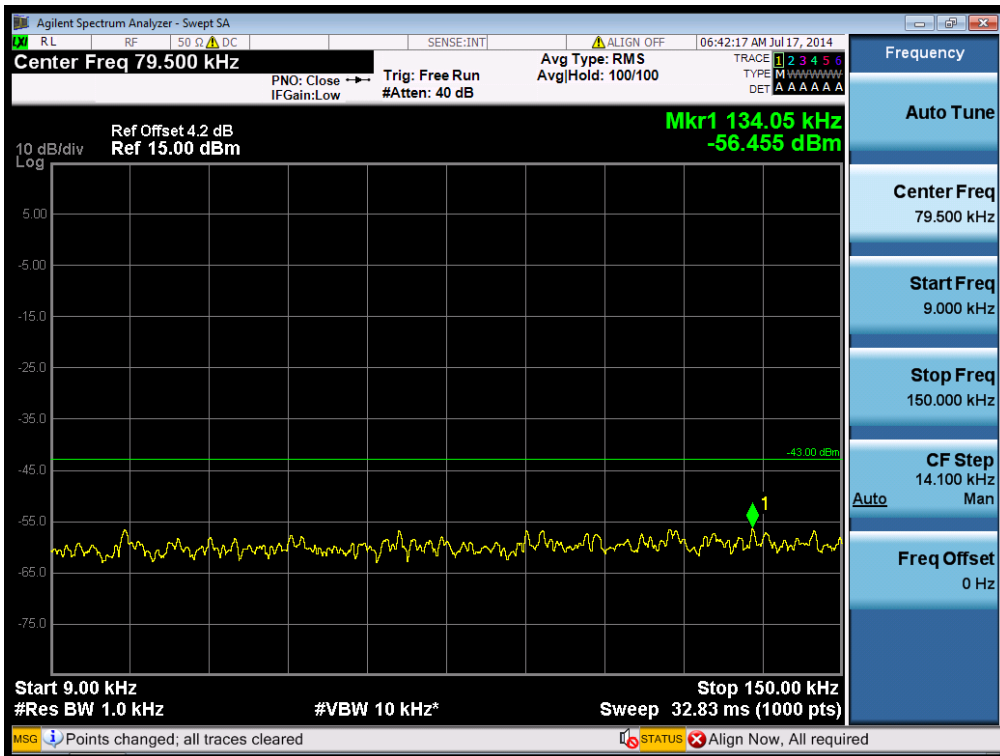


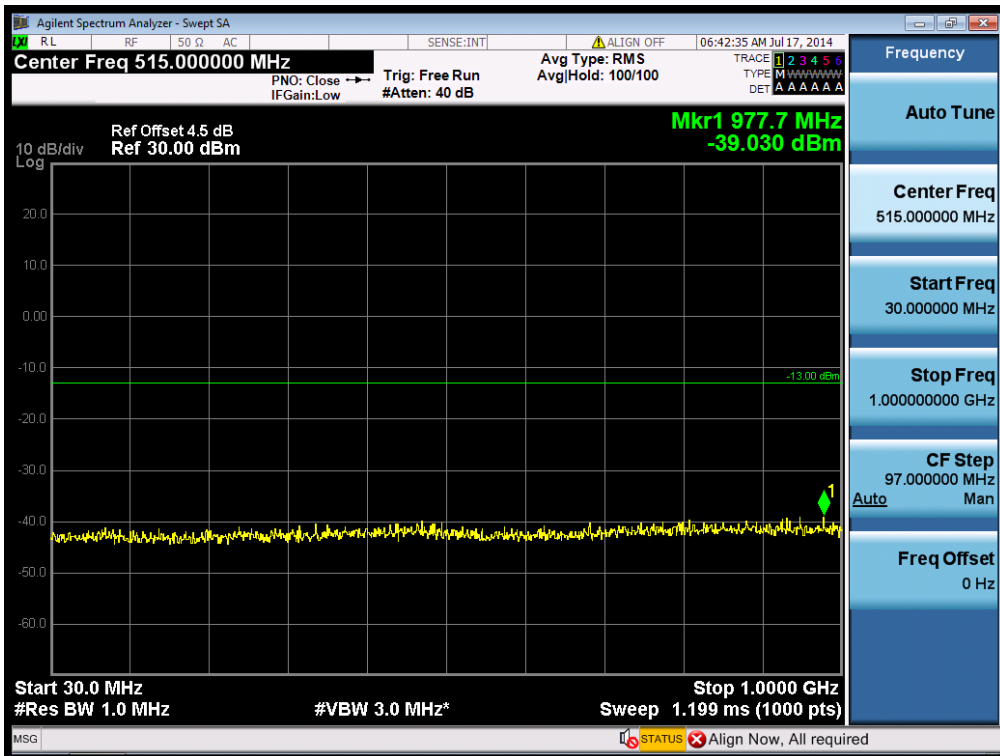
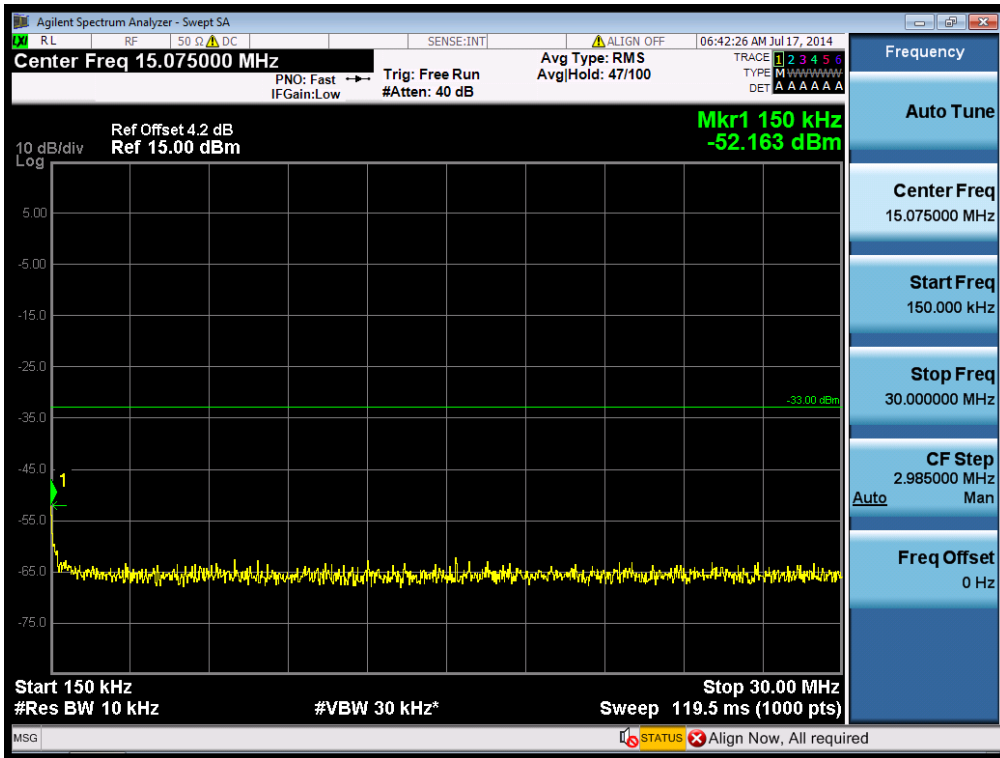


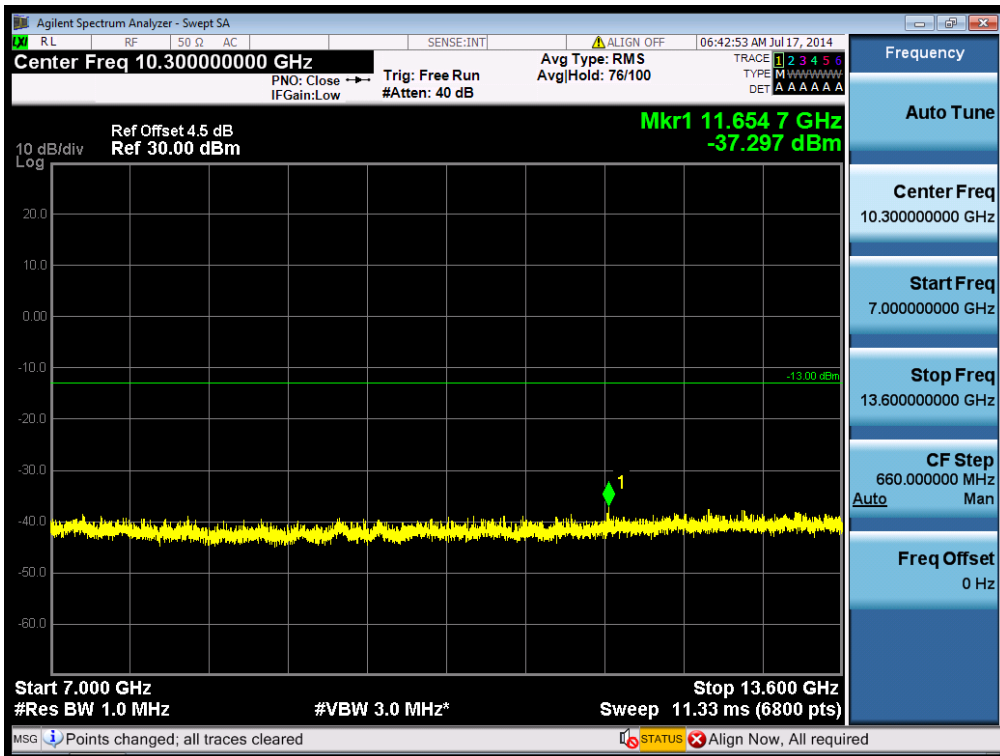
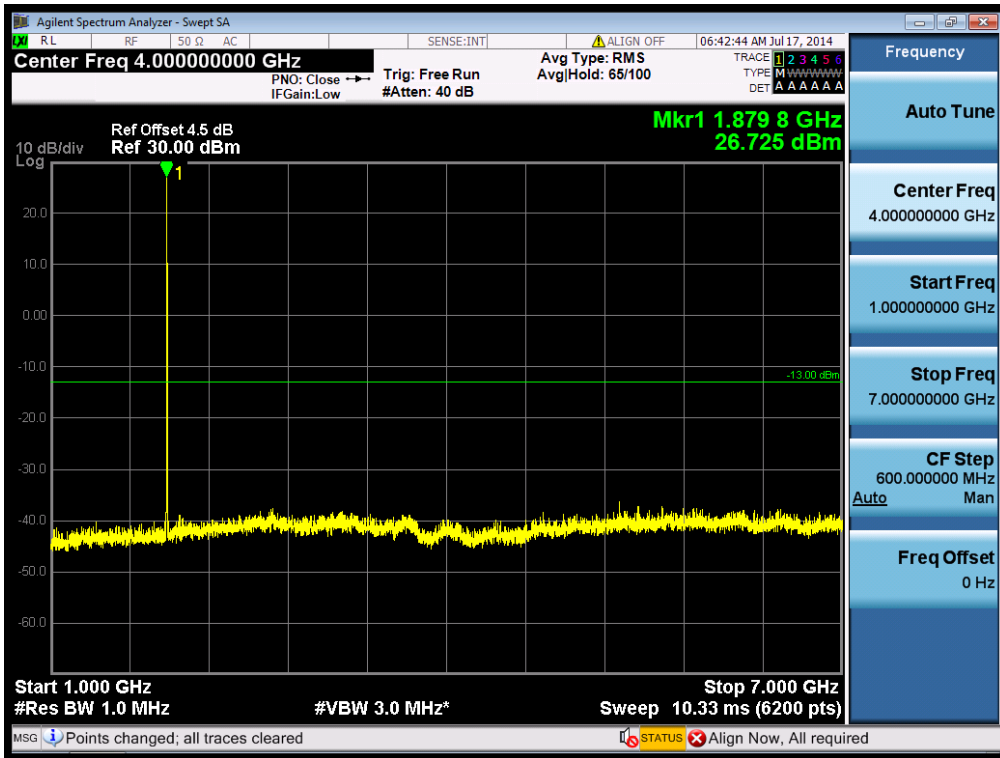


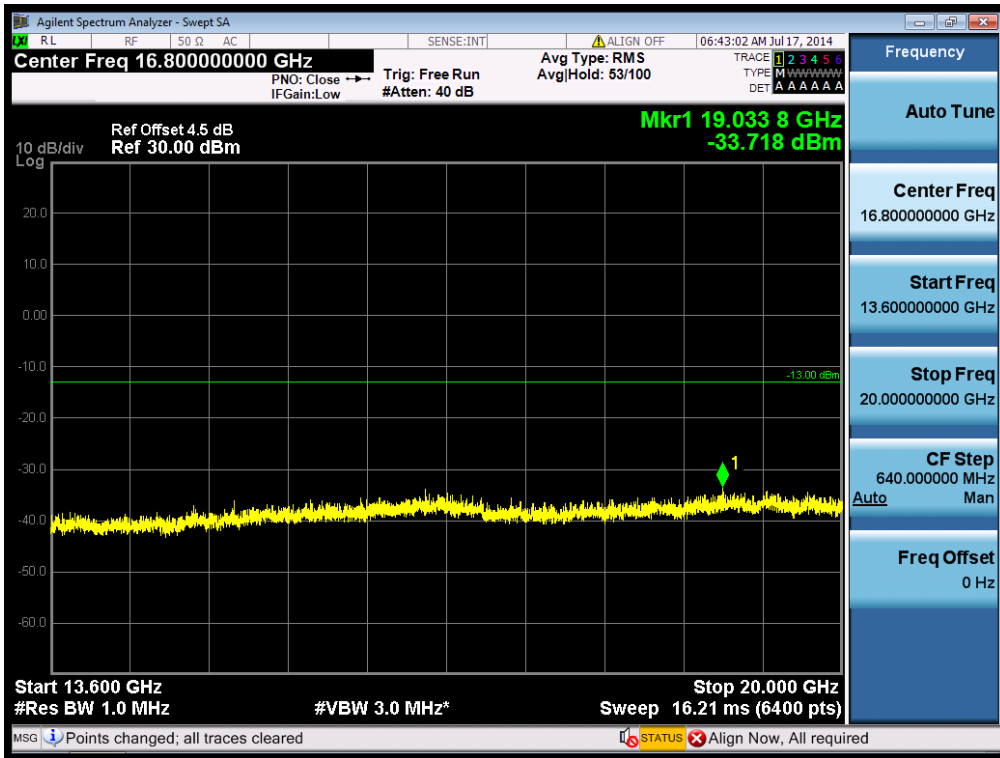


Test Channel=MCH

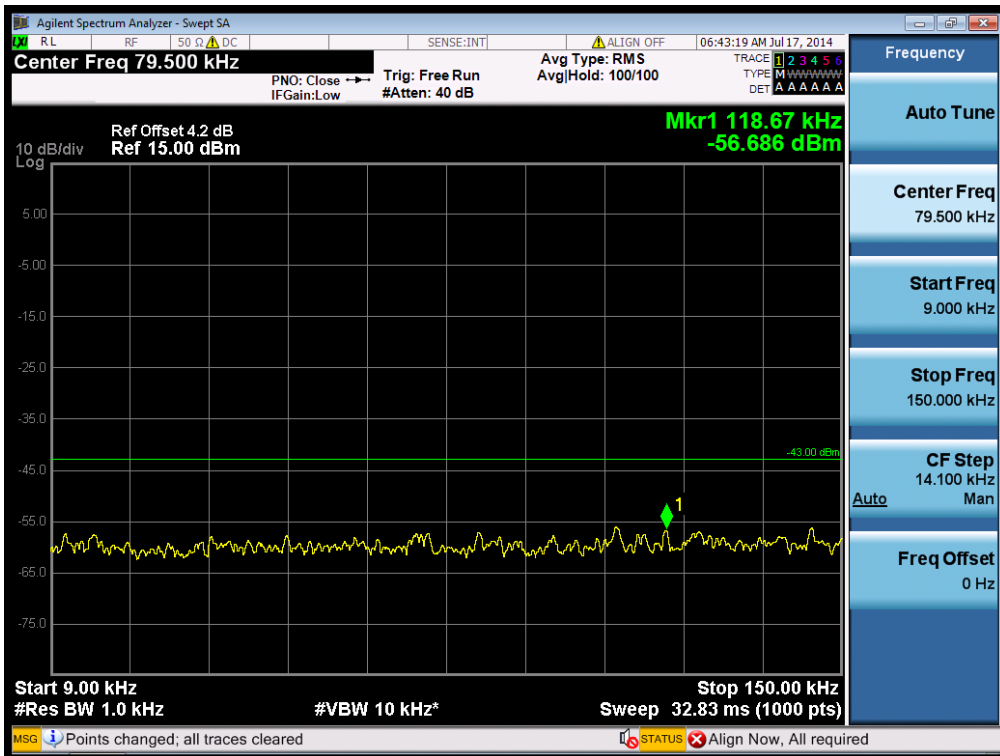


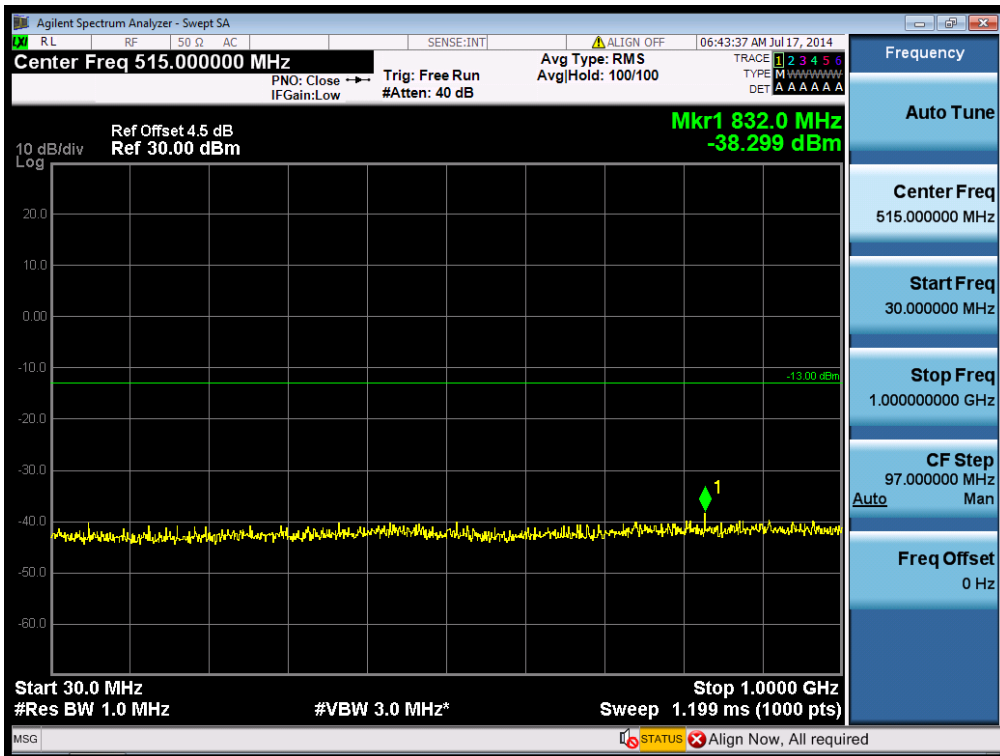
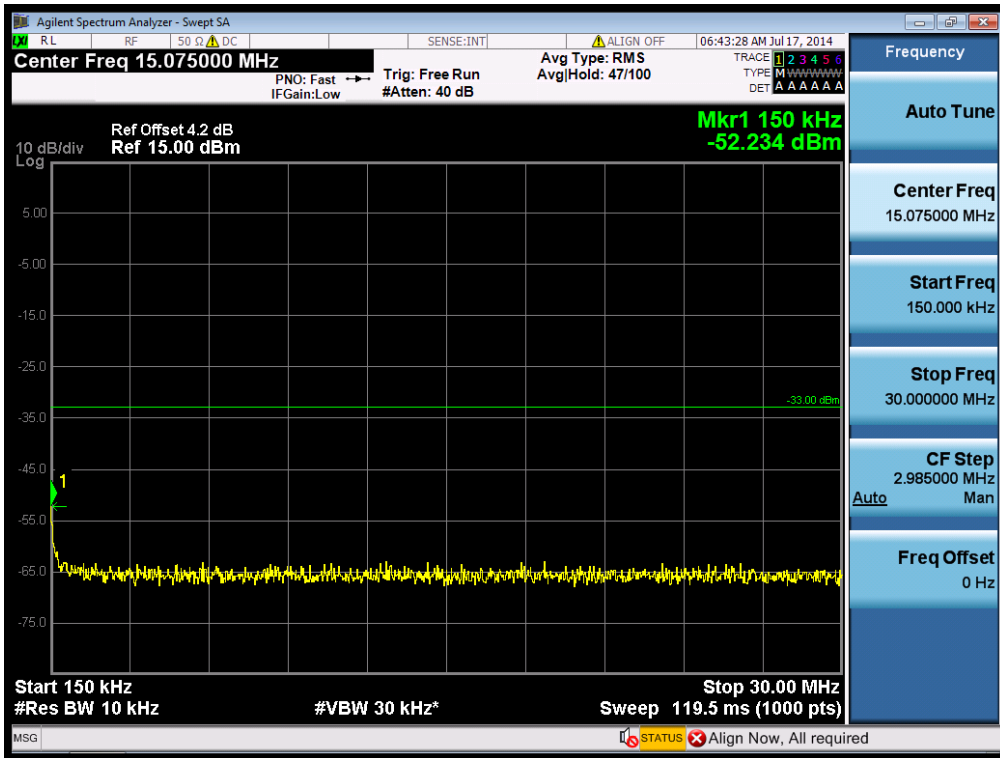


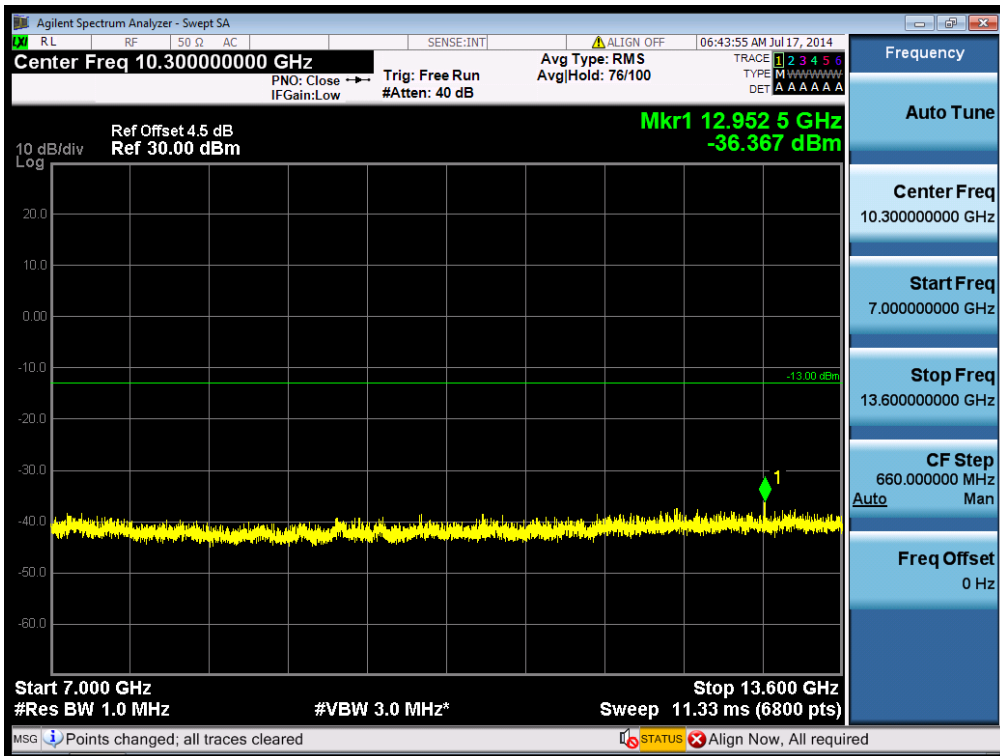
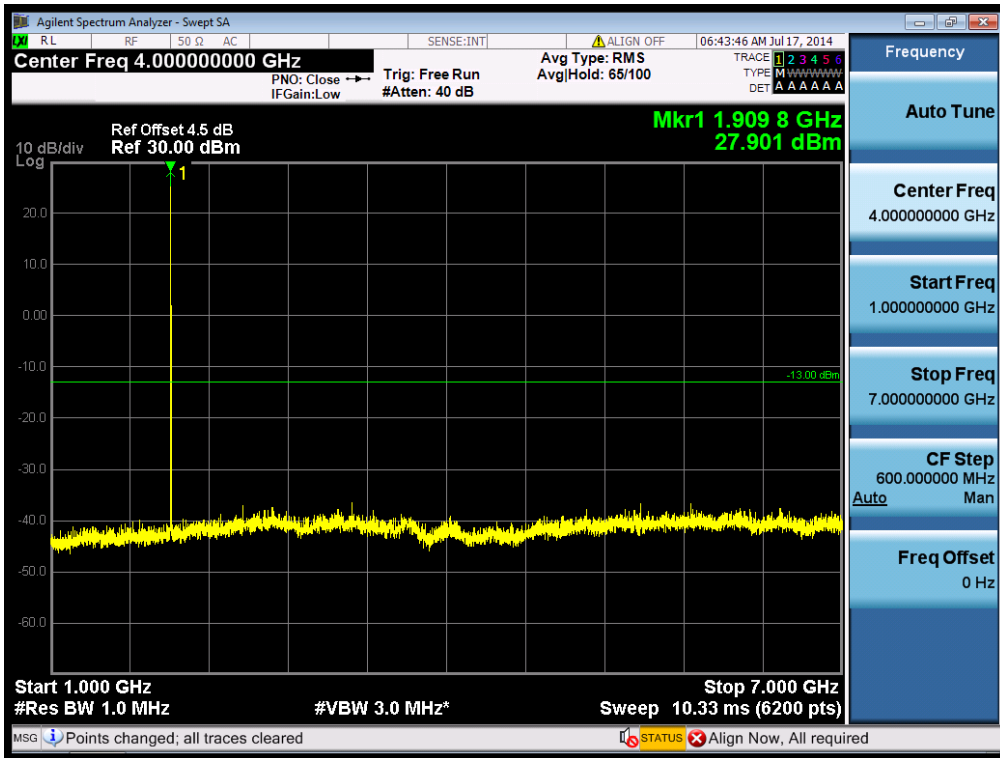


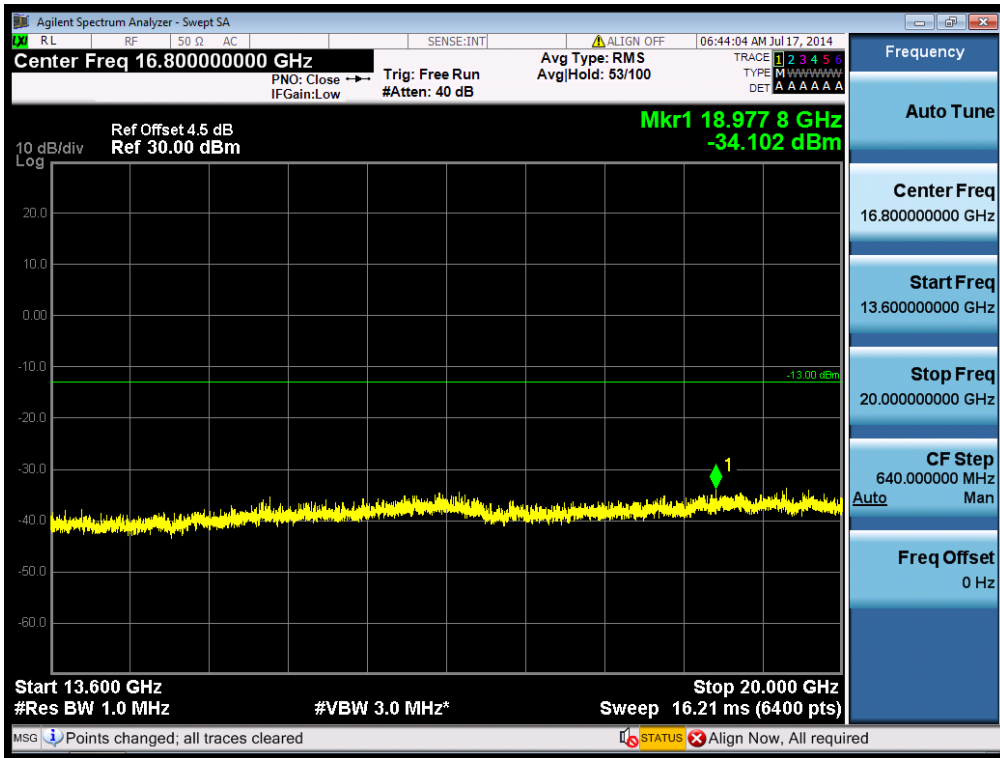


Test Channel=HCH









Test Mode=GSM/TM2

Test Channel=LCH

