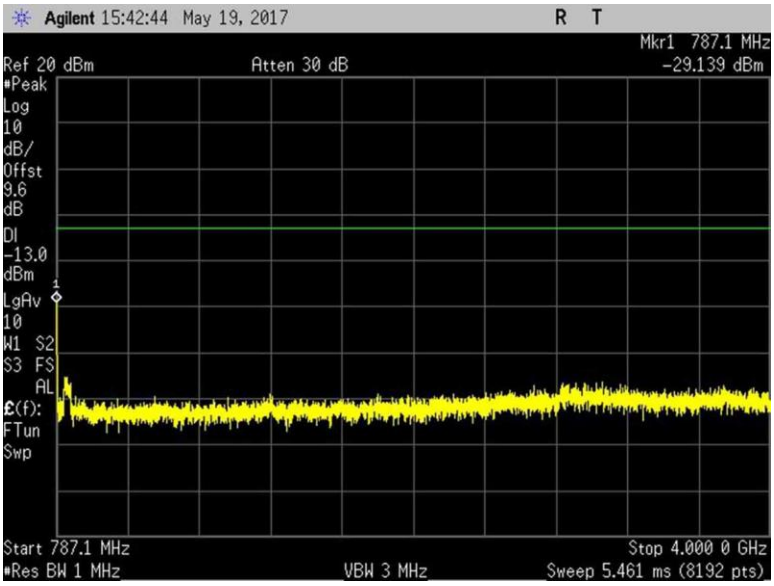
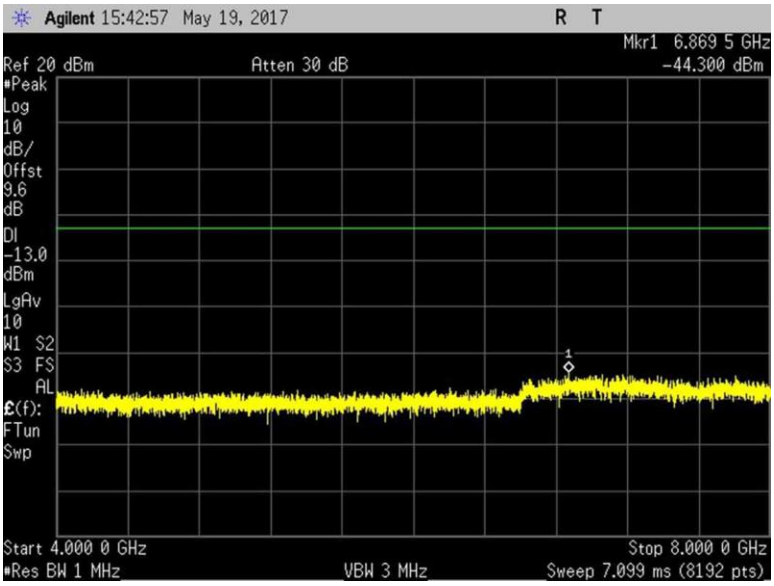
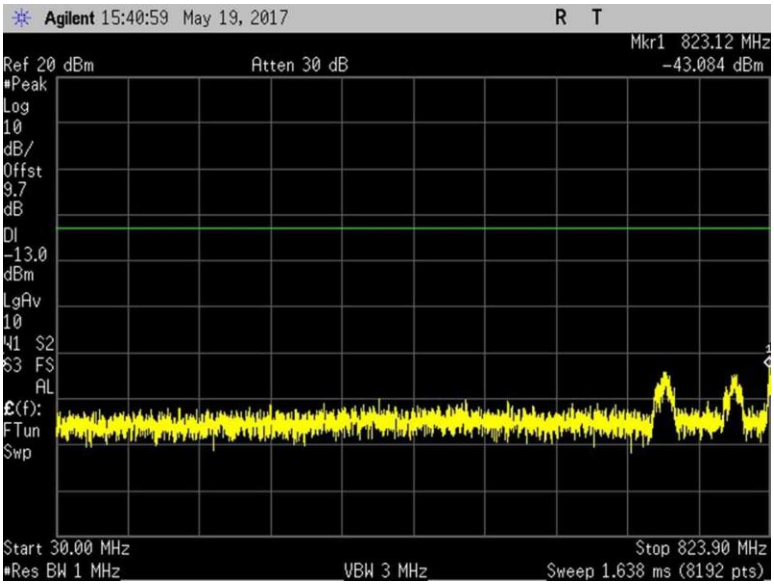


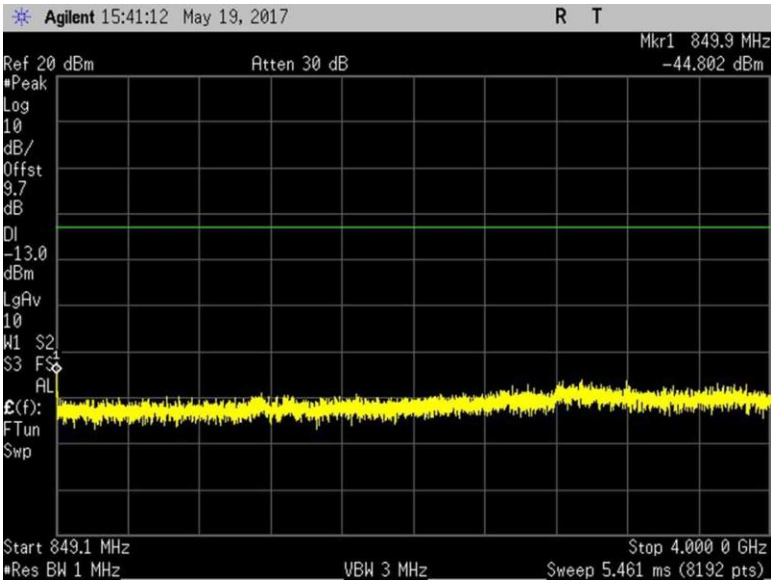
7.6_CSE_UL_776-787MHz_R1



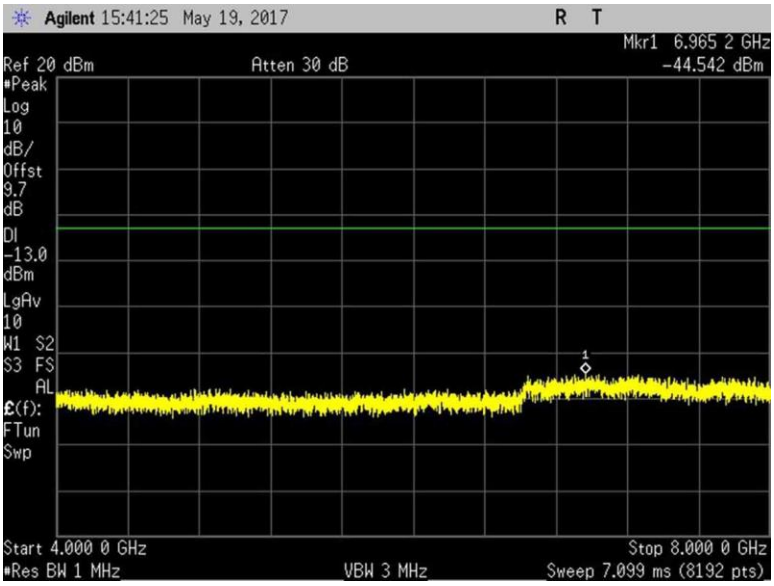
7.6_CSE_UL_776-787MHz_R2



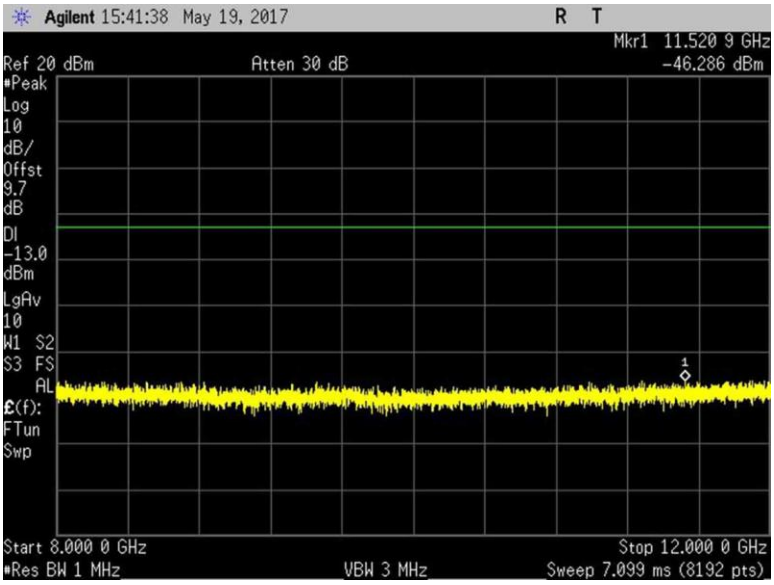
7.6_CSE_UL_824-849MHz_L



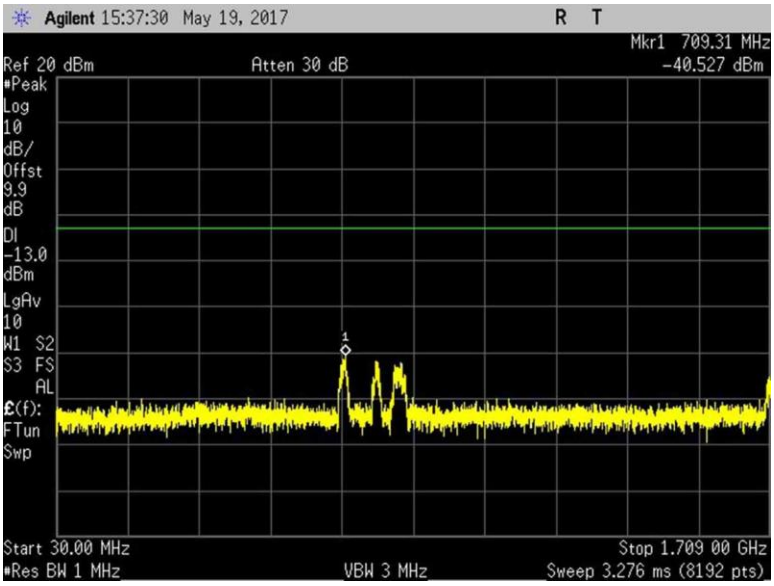
7.6_CSE_UL_824-849MHz_R1



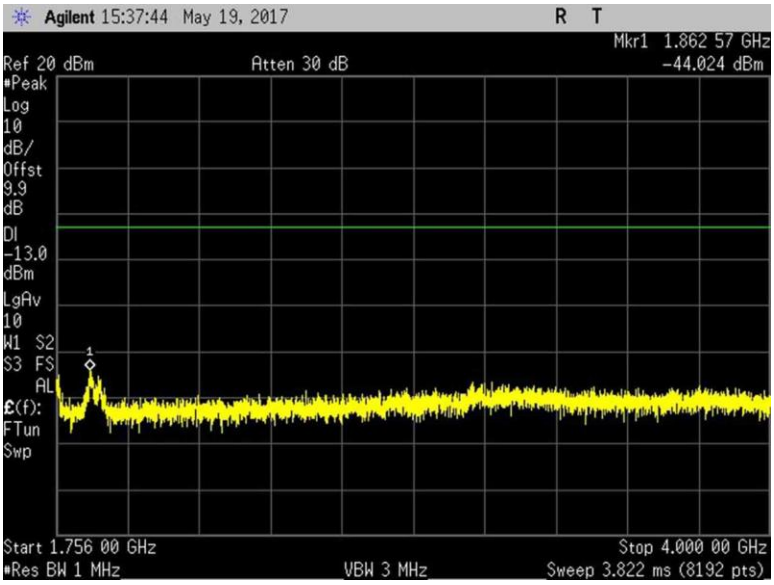
7.6_CSE_UL_824-849MHz_R2



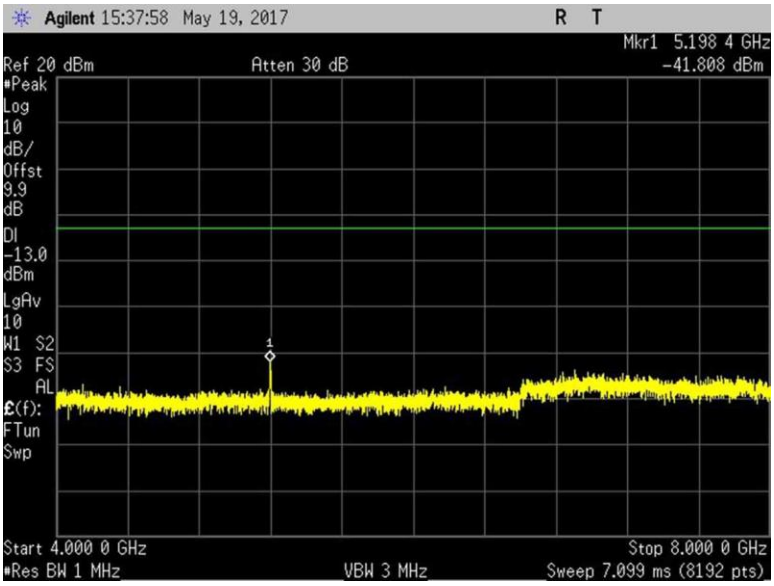
7.6_CSE_UL_824-849MHz_R3



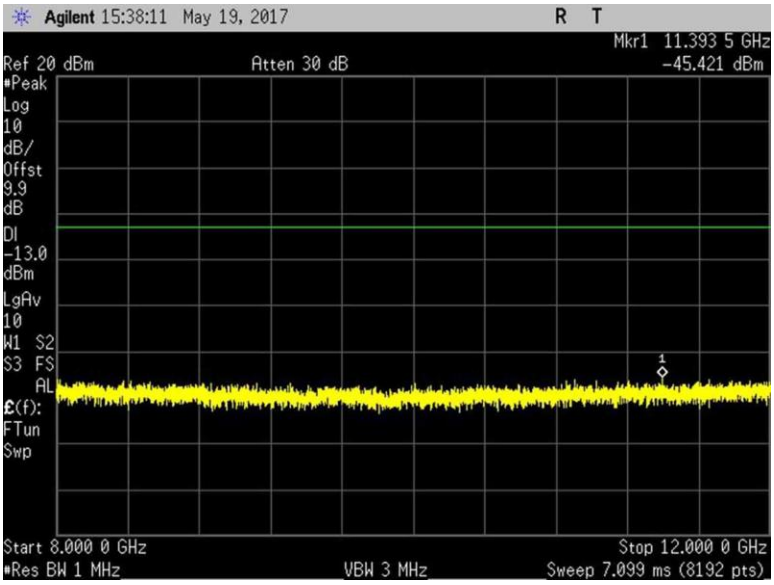
7.6_CSE_UL_1710-1755MHz_L



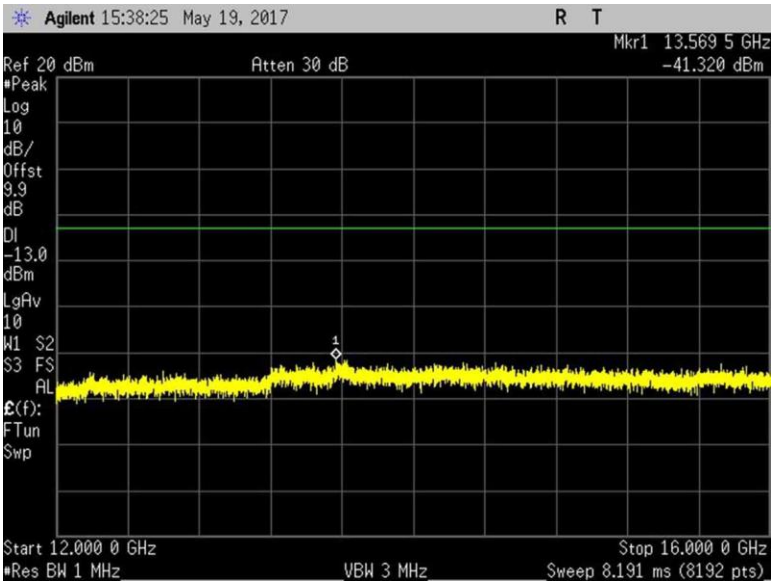
7.6_CSE_UL_1710-1755MHz_R1



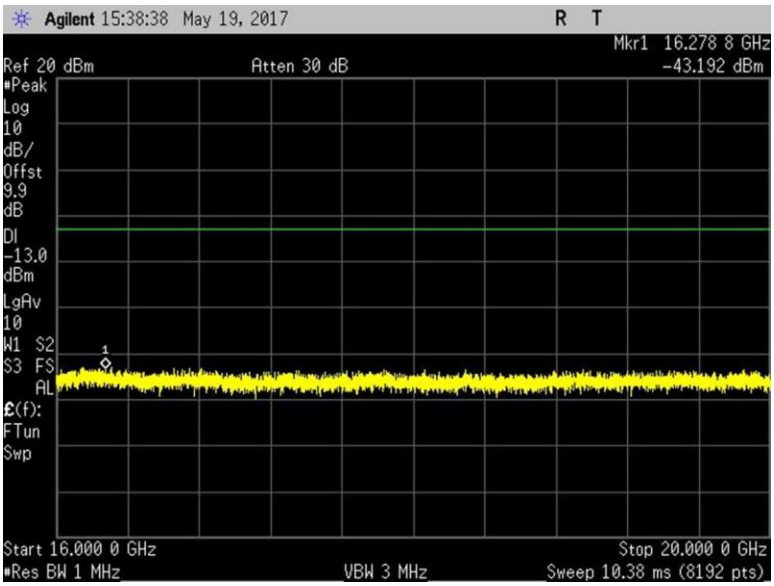
7.6_CSE_UL_1710-1755MHz_R2



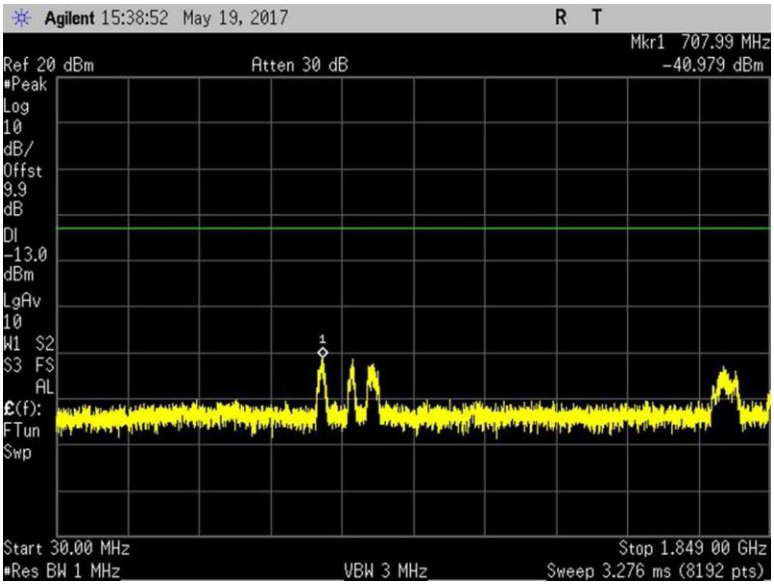
7.6_CSE_UL_1710-1755MHz_R3



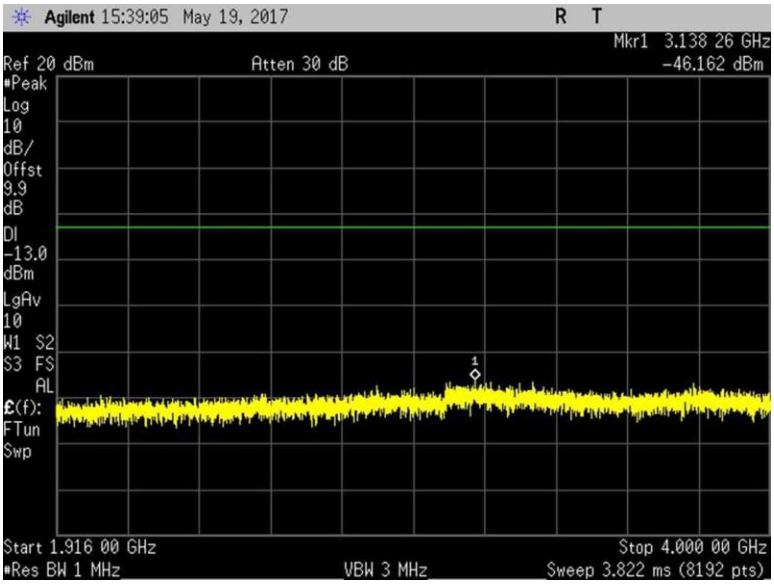
7.6_CSE_UL_1710-1755MHz_R4



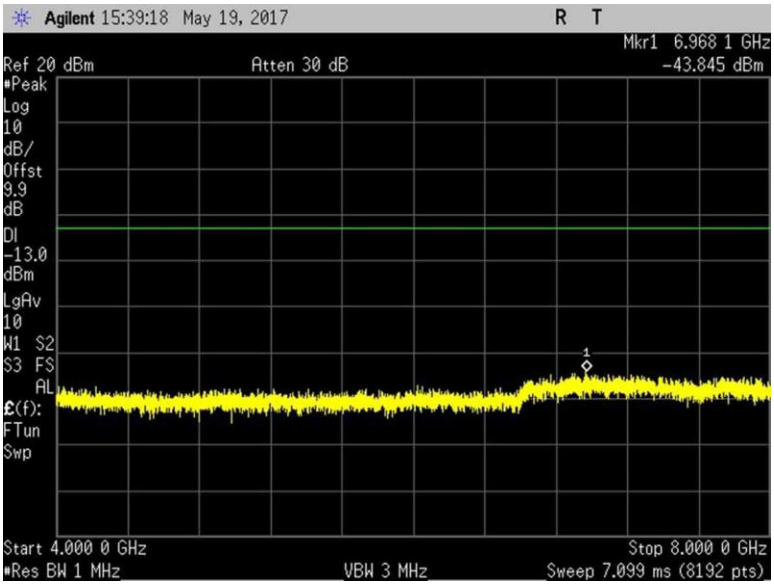
7.6_CSE_UL_1710-1755MHz_R5



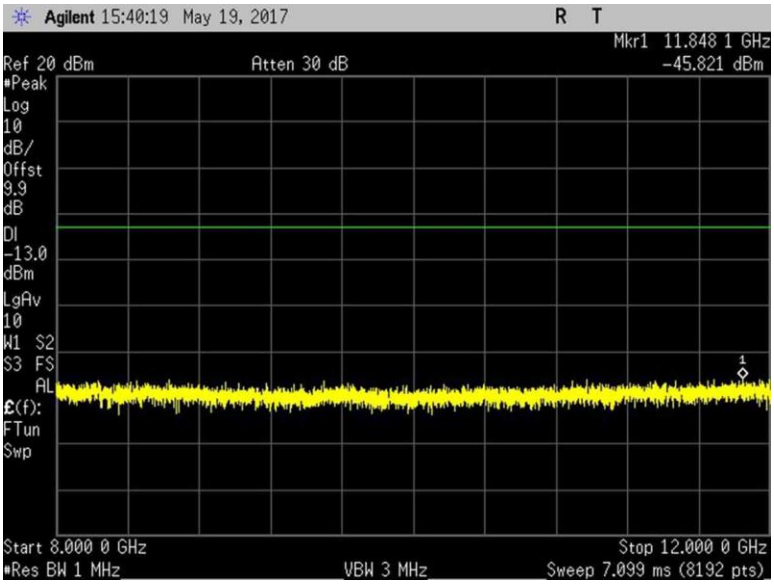
7.6_CSE_UL_1850-1915MHz_L1



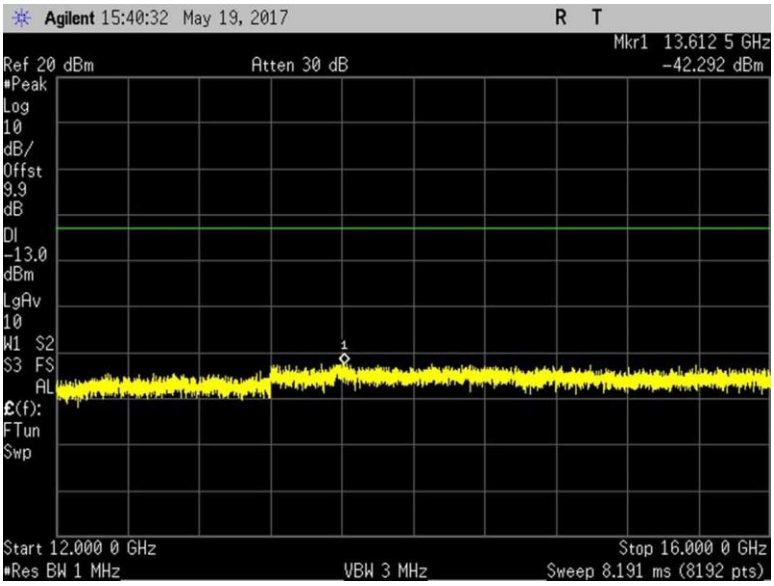
7.6_CSE_UL_1850-1915MHz_R1



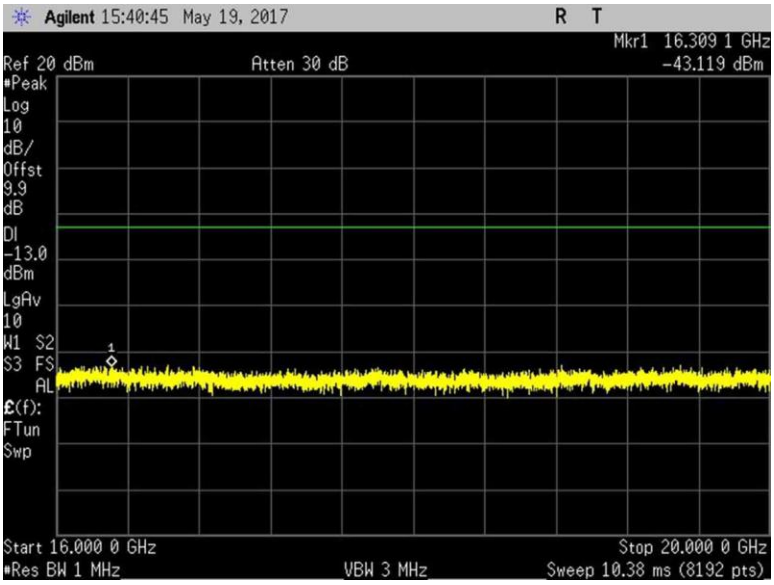
7.6_CSE_UL_1850-1915MHz_R2



7.6_CSE_UL_1850-1915MHz_R3



7.6_CSE_UL_1850-1915MHz_R4



7.6_CSE_UL_1850-1915MHz_R5

7.7 Noise limit

Test Conditions / Setup

Test Location:	CKC Laboratories, Inc • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170		
Customer:	Cellphone-Mate, Inc		
Specification:	**7.7 Noise Limit (Maximum Transmitter Noise Power Level / Variable UL Noise Timing)**		
Work Order #:	**99983**	Date:	5/22/2017
Test Type:	**Conducted Emissions**	Time:	8:28:00 AM
Tested By:	**Daniel Bertran**	Sequence#:	1
Software:	EMITest 5.03.02		

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N

Test Conditions / Notes:

The equipment under test (EUT) is a Mobile Wideband Consumer Booster.
The EUT is placed on the test bench. Evaluation performed at the Outside (Donor) and Inside (Server) antenna port.
The EUT Server port is a type FME connector and 50-ohm impedance.
The EUT Donor port is type FME connector and 50-ohm impedance.

Part 22
UL: 824-849MHz
DL: 869-894MHz
Part 24
UL: 1850-1915MHz
DL: 1930-1995MHz
Part 27
UL: 1710-1755MHz, 698-716MHz, 776-787MHz
DL: 2110-2155MHz, 728-746MHz, 746-757MHz

Test procedure:
The test was performed in accordance with section 7.7 of the FCC document: 935210 D03 Wideband Consumer Signal Booster Measurement Guidance v04 Dated February 12, 2016.
Firmware: 1.7
Test environment conditions: Test environment conditions: 25°C, 45% Relative Humidity, 101.5kPa
Note:
7.7.1 Maximum Transmitter Noise Power Level
Per figure 3, input port was terminated with 50 Ohm Pasternack load (MN: PE6187 and SN: 1443).
Input donor port was terminated with 50 Ohm Pasternack load via a 75/50 Ohm impedance matching pad.

7.7.2 Variable UL Noise Timing
Per figure 4, server port was terminated with 50 Ohm Pasternack load (MN: PE6187 and SN: 1443).

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN03418	Signal Generator	E4438C	7/30/2015	7/30/2017
	ANP06239	Attenuator	54A-10	8/8/2016	8/8/2018
	ANP06897	Cable	32022-29094K-29094K-48TC	12/30/2015	12/30/2017
	ANP06898	Cable	32022-29094K-29094K-48TC	12/30/2015	12/30/2017
	ANP05411	Attenuator	54A-10	1/18/2016	1/18/2018
	AN03471	Spectrum Analyzer	E4440A	1/4/2016	1/4/2018
	ANC00082	RF Coupler	722-10-1.500V	8/26/2015	8/26/2017

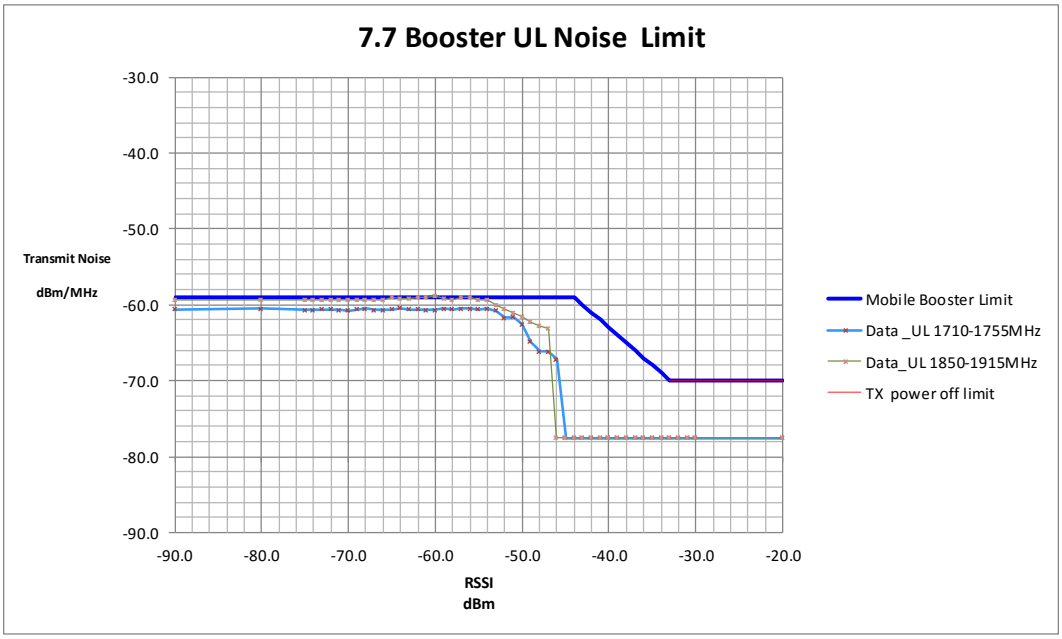
Summary of Results

7.7.1 Maximum transmitter noise power level

- 7.7.1 a-g: Maximum transmitter noise with 50-ohm shielded load

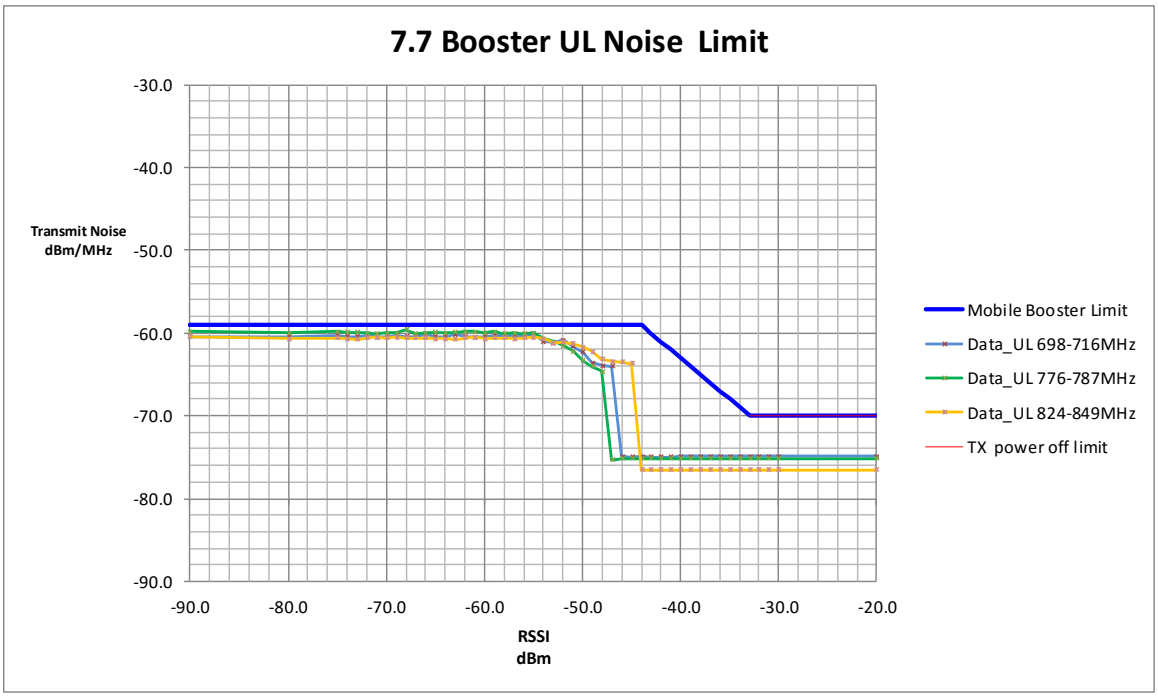
Maximum Noise Power			
Freq	Measured	Limit	Margin
MHz	dBm./MHz	dBm/MHz	
UL 1710-1755	-60.0	-59.0	-1.0
UL 1850-1915	-60.9	-59.0	-1.9
UL 824-849	-60.6	-59.0	-1.6
UL 698-716	-59.5	-59.0	-0.5
UL 776-787	-59.7	-59.0	-0.7
DL 2110-2155	-60.1	-59.0	-1.1
DL 1930-1995	-60.5	-59.0	-1.5
DL 869-894	-60.1	-59.0	-1.1
DL 728-746	-60.8	-59.0	-1.8
DL 746-757	-59.6	-59.0	-0.5

- 7.7.1 h-n: Maximum transmitter noise when varying the DL signal generator output level with a 4.1MHz AWGN signal



1710.0	1755.0	MHz			
		Limit			Margin
RSSI (dBm)	Measured Noise (dBm/MHz)	RSSI Dependent	Mobile Booster Limit	TX off	
-80.0	-60.5		-59.0		-1.5
-68.0	-60.5		-59.0		-1.5
-53.0	-60.8	-50.0			-10.8
-52.0	-61.7	-51.0			-10.7
-51.0	-61.6	-52.0			-9.6
-50.0	-62.6	-53.0			-9.6
-32.0	-77.6			-70	-18.6

1850.0	1915.0	MHz			
		Limit			Margin
RSSI (dBm)	Measured Noise (dBm/MHz)	RSSI Dependent	Mobile Booster Limit	TX off	
-75.0	-59.4		-59.0		-0.4
-70.0	-59.4		-59.0		-0.4
-50.0	-61.6	-53.0			-8.6
-49.0	-62.3	-54.0			-8.3
-48.0	-62.8	-55.0			-7.8
-47.0	-63.1	-56.0			-7.1
-32.0	-77.6			-70	-18.6



824.0	849.0	MHz			
		Limit			Margin
RSSI (dBm)	Measured Noise (dBm/MHz)	RSSI Dependent	Mobile Booster Limit	TX off	
-69.0	-60.5		-59.0		-1.5
-61.0	-60.5		-59.0		-1.5
-48.0	-63.2	-55.0			-8.2
-47.0	-63.4	-56.0			-7.4
-46.0	-63.5	-57.0			-6.5
-45.0	-63.7	-58.0			-5.7
-32.0	-76.5			-70	-17.5

698.0	716.0	MHz			
		Limit			Margin
RSSI (dBm)	Measured Noise (dBm/MHz)	RSSI Dependent	Mobile Booster Limit	TX off	
-63.0	-60.2		-59.0		-1.2
-58.0	-60.3		-59.0		-1.3
-50.0	-62.3	-53.0			-9.3
-49.0	-63.6	-54.0			-9.6
-48.0	-63.9	-55.0			-8.9
-47.0	-64.0	-56.0			-8.0
-32.0	-74.9			-70	-15.9

776.0	787.0	MHz			
		Limit			Margin
RSSI (dBm)	Measured Noise (dBm/MHz)	RSSI Dependent	Mobile Booster Limit	TX off	
-68.0	-59.6		-59.0		-0.6
-62.0	-59.8		-59.0		-0.8
-51.0	-62.2	-52.0			-10.2
-50.0	-63.3	-53.0			-10.3
-49.0	-64.0	-54.0			-10.0
-48.0	-64.6	-55.0			-9.6
-32.0	-75.2			-70	-16.2

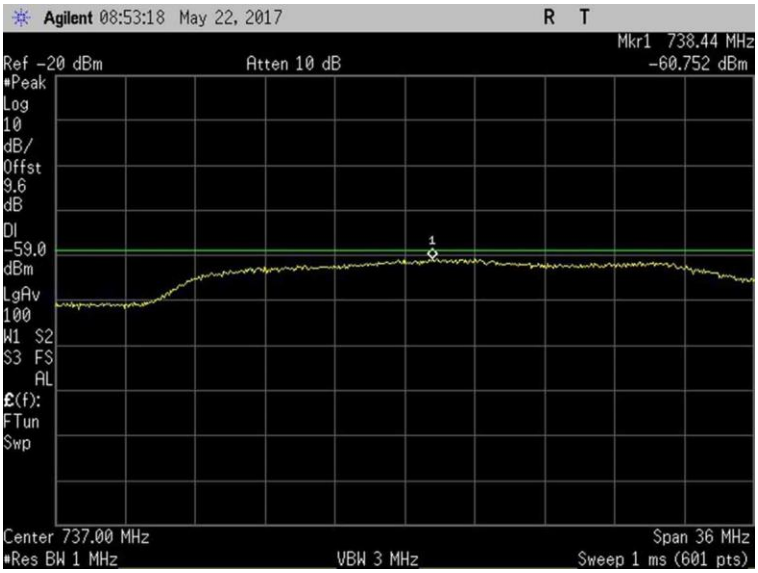
7.7.2 Variable uplink noise timing

Uplink Noise timing		
Freq	**Measured**	**Limit**
MHz	**Sec**	**sec**
UL1710-1755	0.45	1
UL1850-1915	0.42	1
UL824-849	0.43	1
UL 698-716	0.50	1
UL776-787	0.41	1

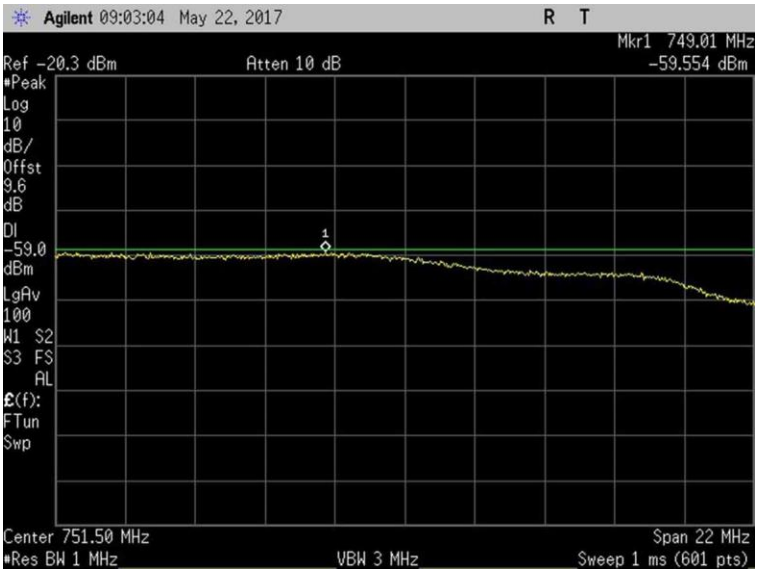
7.7.1 Maximum Transmitter Noise Power Level

Plots

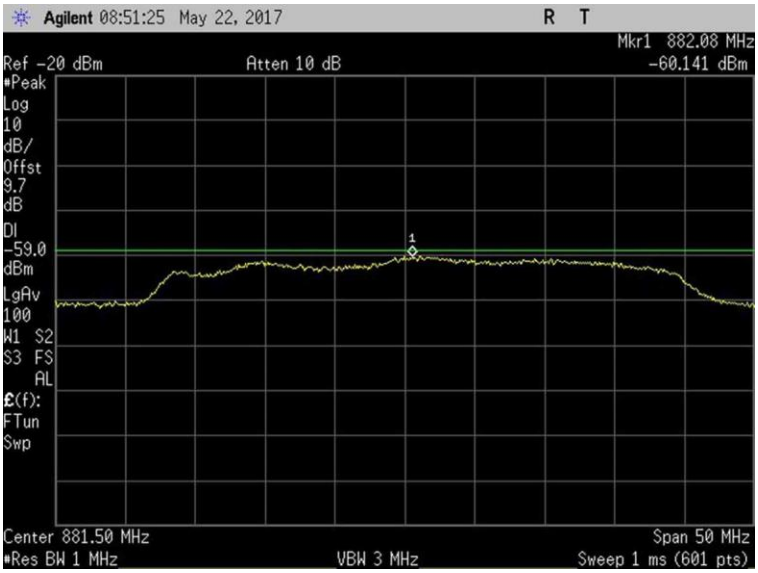
DL



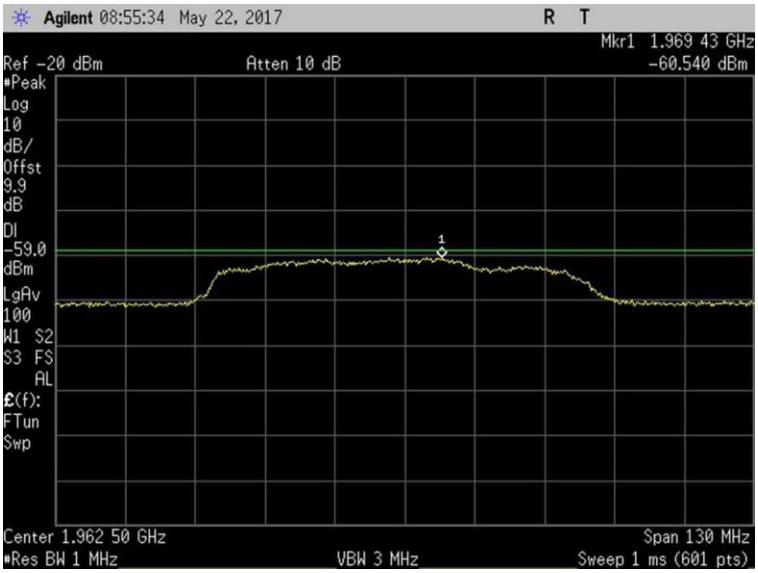
7.7.1_Noise_DL_728-746MHz



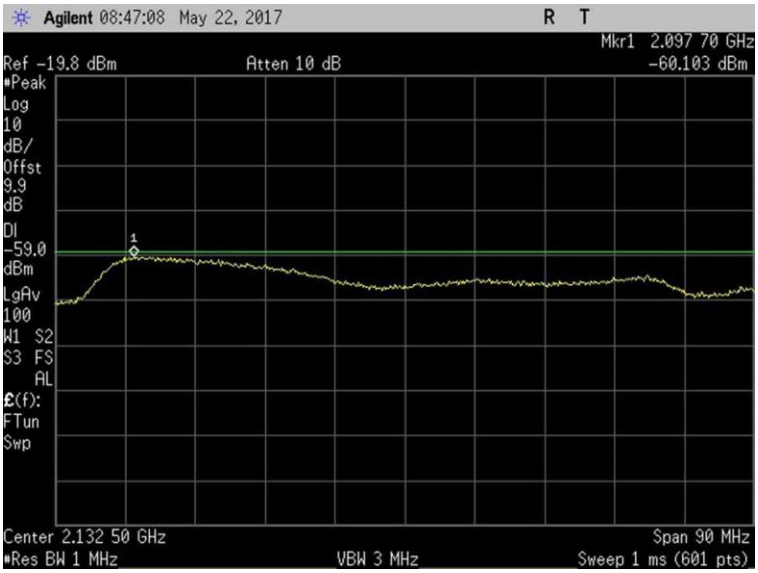
7.7.1_Noise_DL_746-757MHz



7.7.1_Noise_DL_869-894MHz

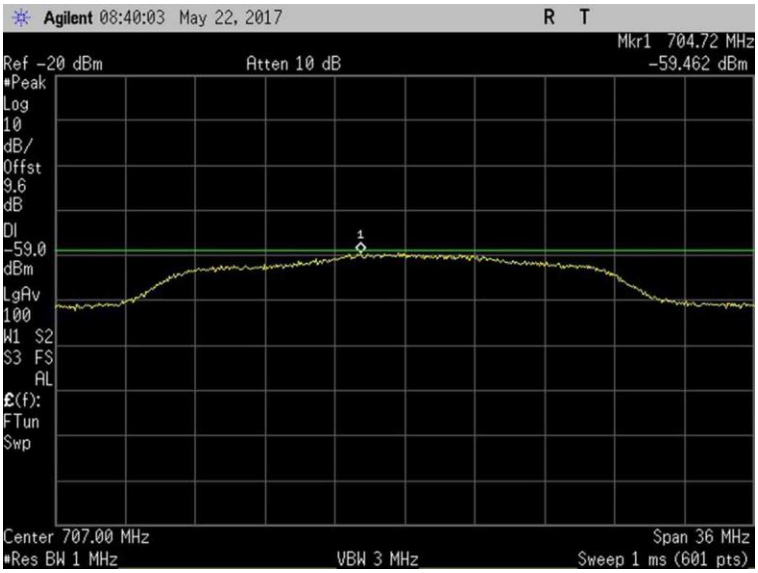


7.7.1_Noise_DL_1930-1995MHz

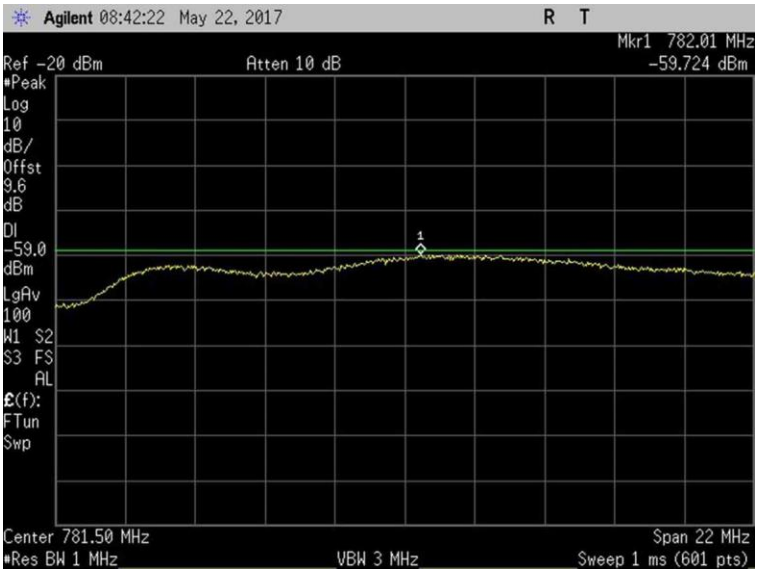


7.7.1_Noise_DL_2110-2155MHz

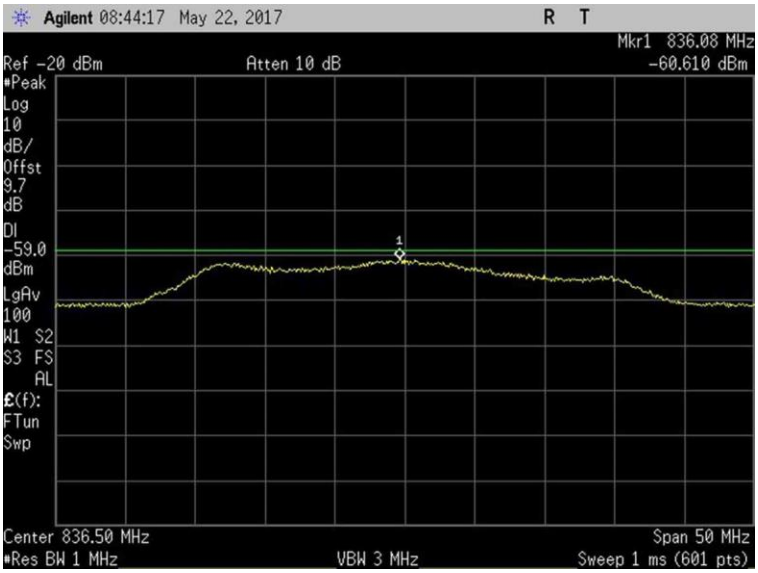
UL



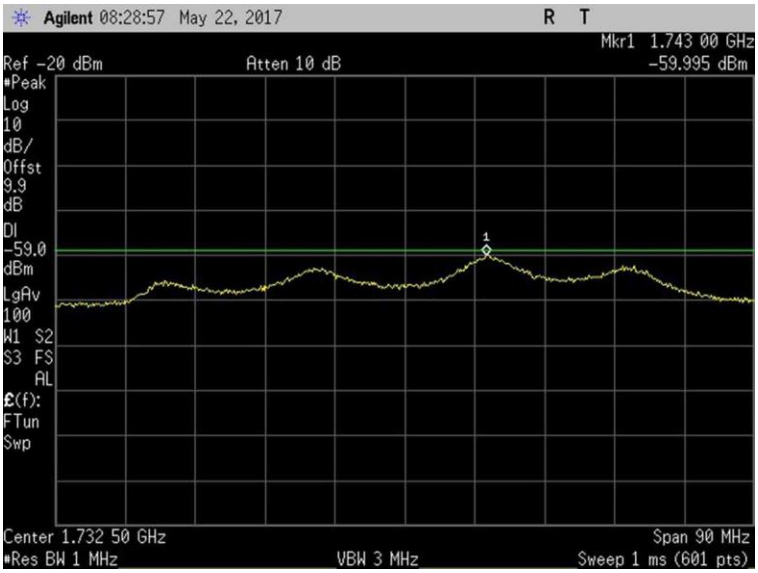
7.7.1_Noise_UL_698-716MHz



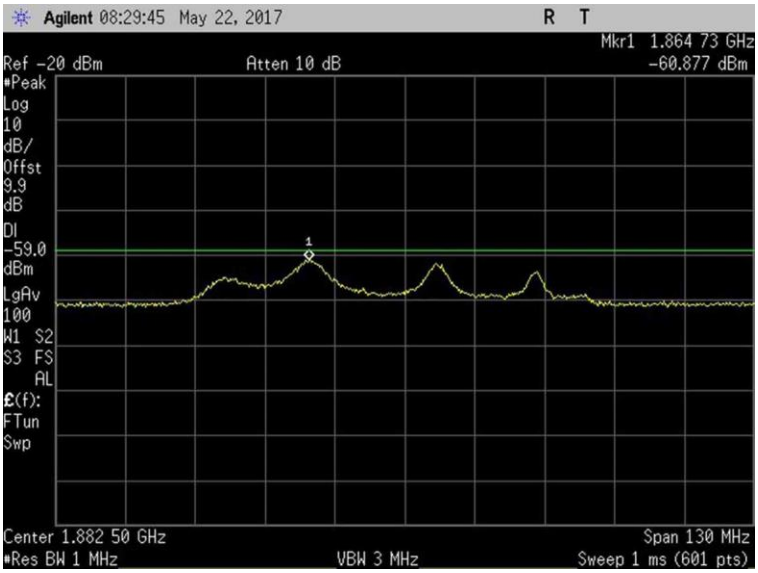
7.7.1_Noise_UL_776-787MHz



7.7.1_Noise_UL_824-849MHz



7.7.1_Noise_UL_1710-1755MHz

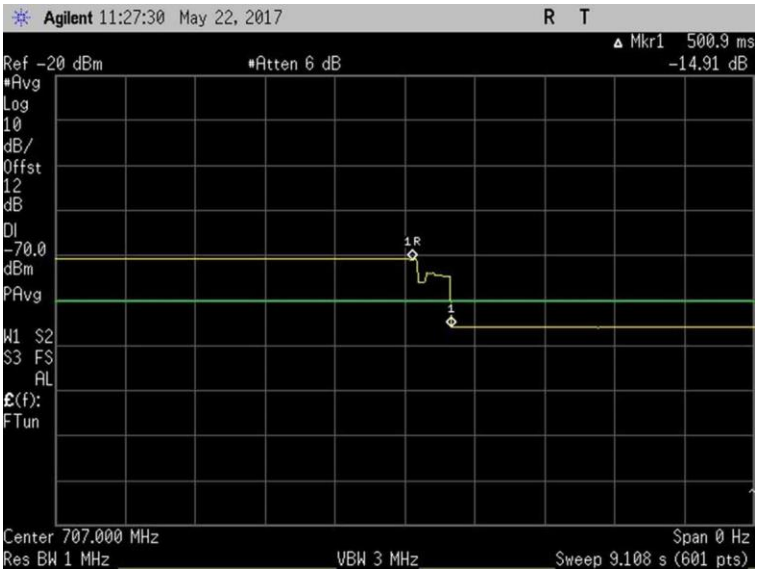


7.7.1_Noise_UL_1850-1915MHz

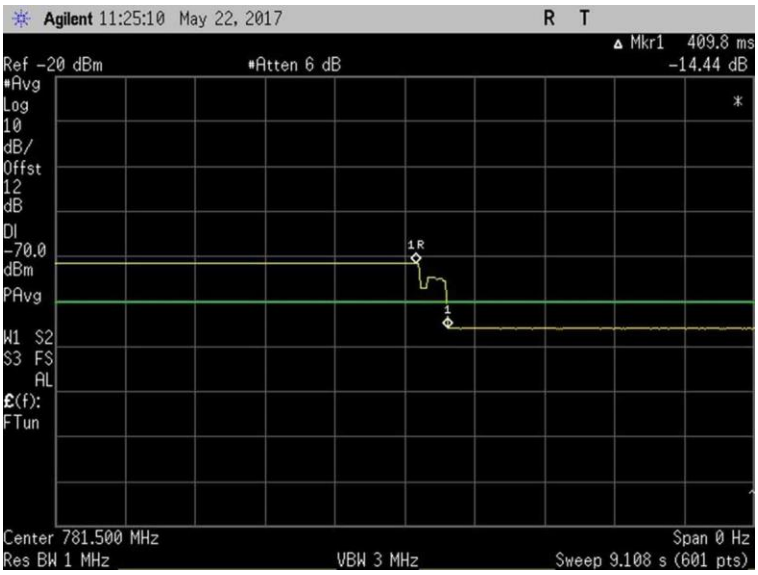
7.7.2 Variable UL Noise Timing

Plots

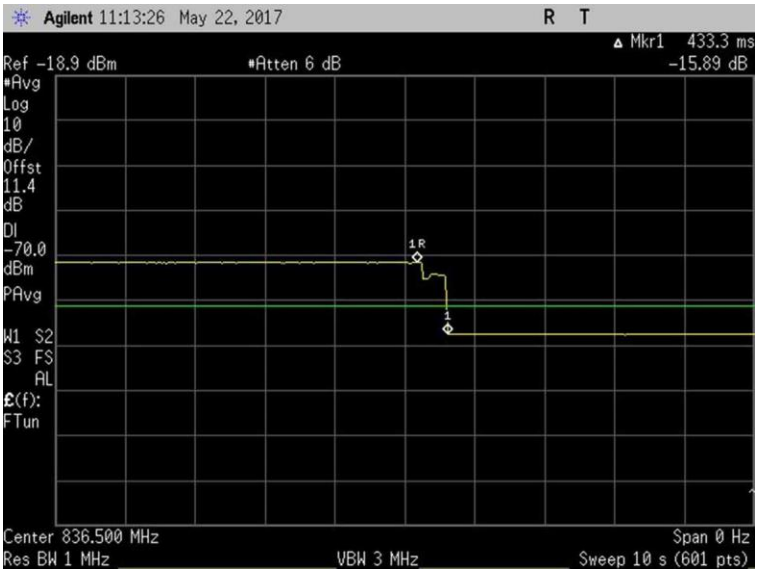
UL



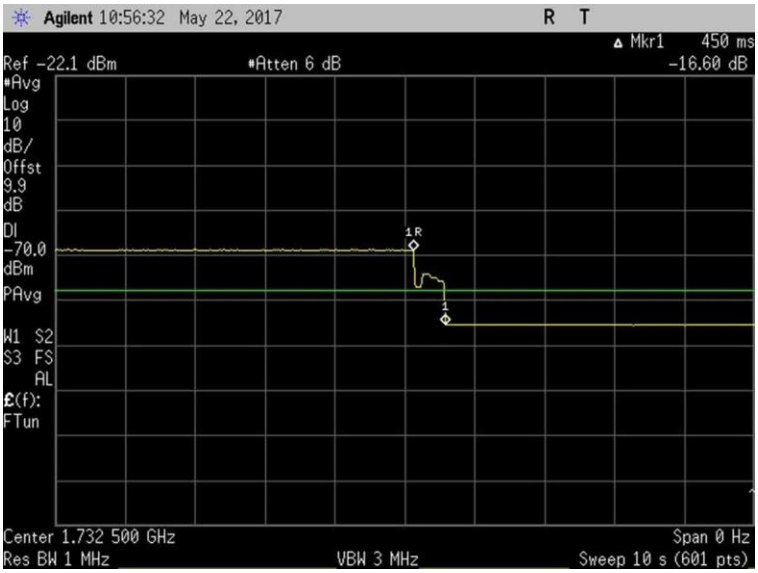
7.7.2_VarNoise_UL_698-716MHz



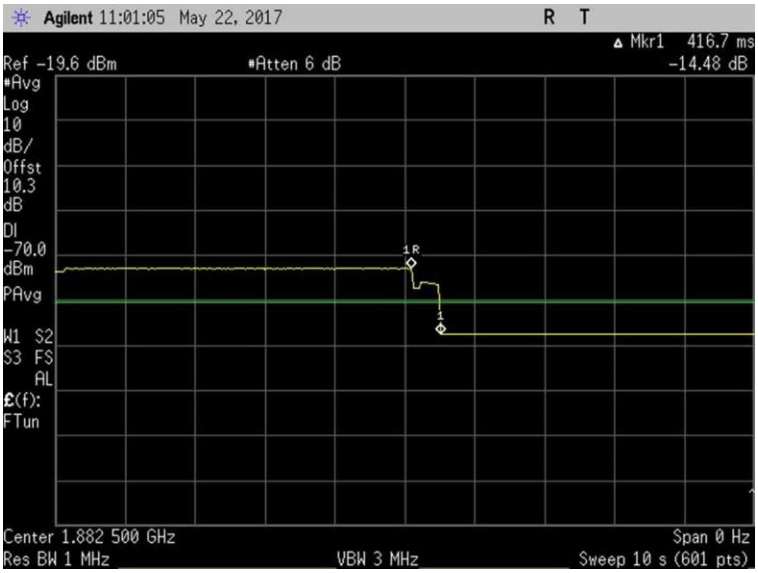
7.7.2_VarNoise_UL_776-787MHz



7.7.2_VarNoise_UL_824-849MHz



7.7.2_VarNoise_UL_1710-1755MHz



7.7.2_VarNoise_UL_1850-1915MHz

7.8 Uplink Inactivity

Test Conditions / Setup

Test Location:	CKC Laboratories, Inc • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170		
Customer:	Cellphone-Mate, Inc		
Specification:	**7.8 Uplink Inactivity**		
Work Order #:	**99983**	Date:	5/22/2017
Test Type:	**Conducted Emissions**	Time:	11:49:00 AM
Tested By:	**Daniel Bertran**	Sequence#:	1
Software:	EMITest 5.03.02		

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N

Test Conditions / Notes:

The equipment under test (EUT) is a Mobile Wideband Consumer Booster.
The EUT is placed on the test bench. Evaluation performed at the Outside (Donor) and Inside (Server) antenna port.
The EUT Server port is a type FME connector and 50-ohm impedance.
The EUT Donor port is type FME connector and 50-ohm impedance.
Part 22
UL: 824-849MHz
DL: 869-894MHz
Part 24
UL: 1850-1915MHz
DL: 1930-1995MHz
Part 27
UL: 1710-1755MHz, 698-716MHz, 776-787MHz
DL: 2110-2155MHz, 728-746MHz, 746-757MHz

Test procedure:
The test was performed in accordance with section 7.8 of the FCC document: 935210 D03 Wideband Consumer Signal Booster Measurement Guidance v04 Dated February 12, 2016.
Firmware: 1.7
Test environment conditions: Test environment conditions: 25°C, 45% Relative Humidity, 101.5kPa

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN03418	Signal Generator	E4438C	7/30/2015	7/30/2017
	ANP06239	Attenuator	54A-10	8/8/2016	8/8/2018
	ANP06897	Cable	32022-29094K-29094K-48TC	12/30/2015	12/30/2017
	ANP06898	Cable	32022-29094K-29094K-48TC	12/30/2015	12/30/2017
	ANP05411	Attenuator	54A-10	1/18/2016	1/18/2018
	AN03471	Spectrum Analyzer	E4440A	1/4/2016	1/4/2018

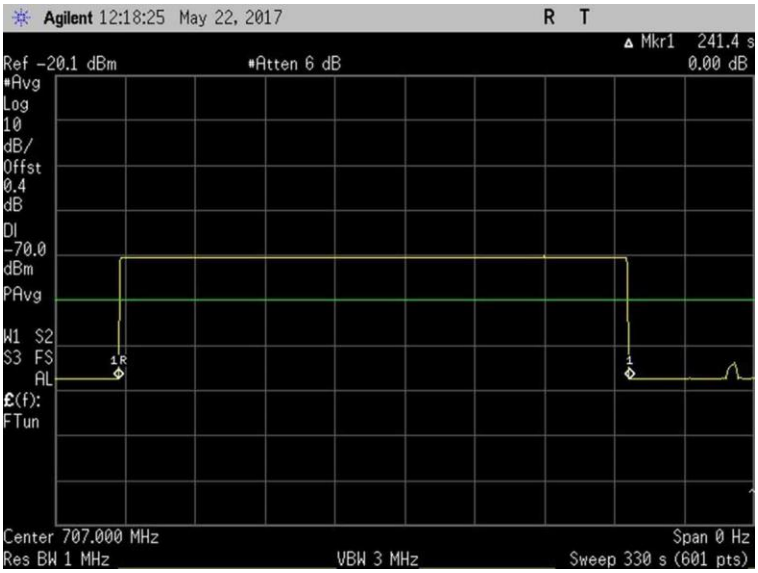
Summary of Results

Pass: As demonstrated, when the booster is not serving an active device connection after 5 minutes the uplink noise power does not exceed -70dBm/MHz.

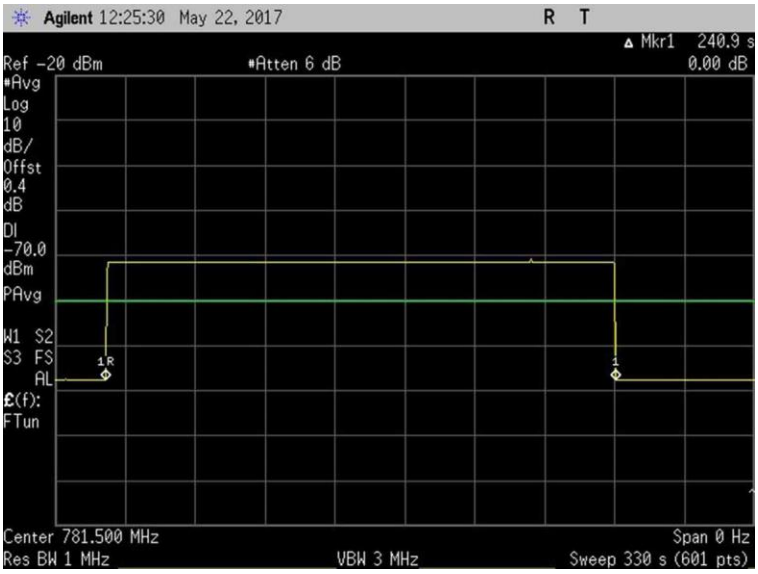
Uplink Inactivity		
Freq	**Measured**	**Limit**
MHz	**Min**	**Min**
UL1710-1755	4.0	5.0
UL1850-1915	4.0	5.0
UL824-849	4.0	5.0
UL 698-716	4.0	5.0
UL776-787	4.0	5.0

Plots

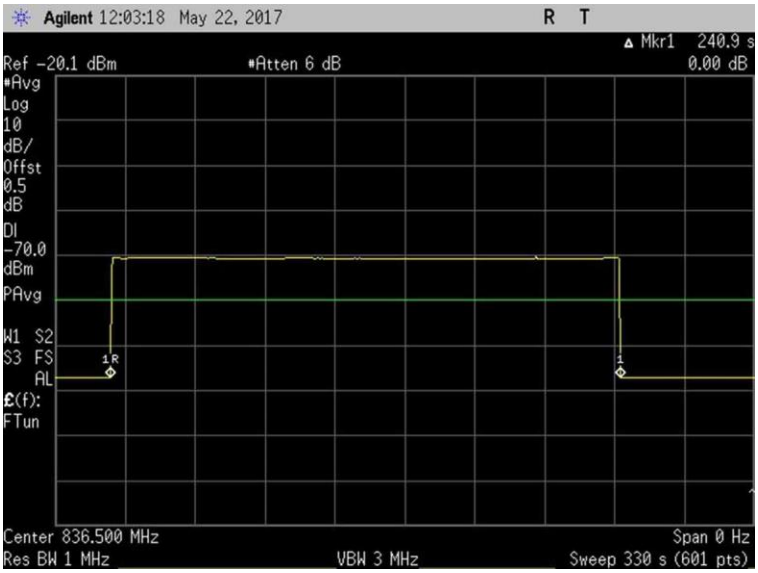
UL



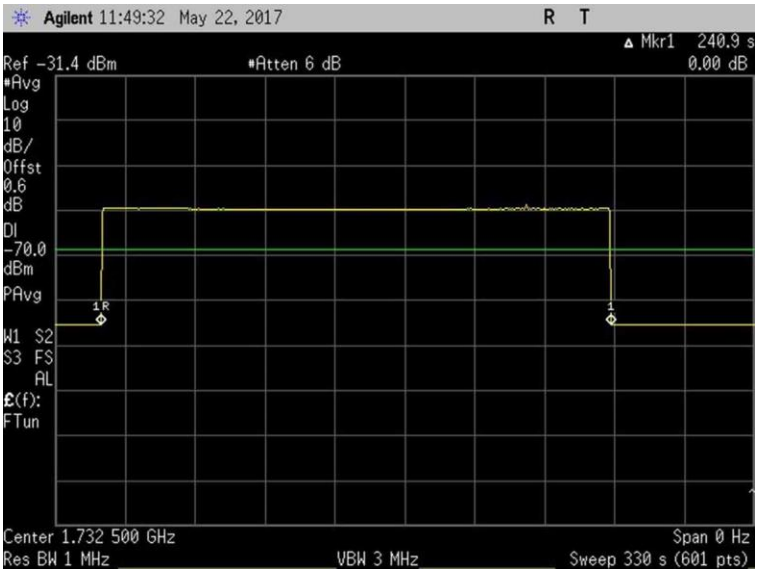
7.8_InactivityUL_698-716MHz



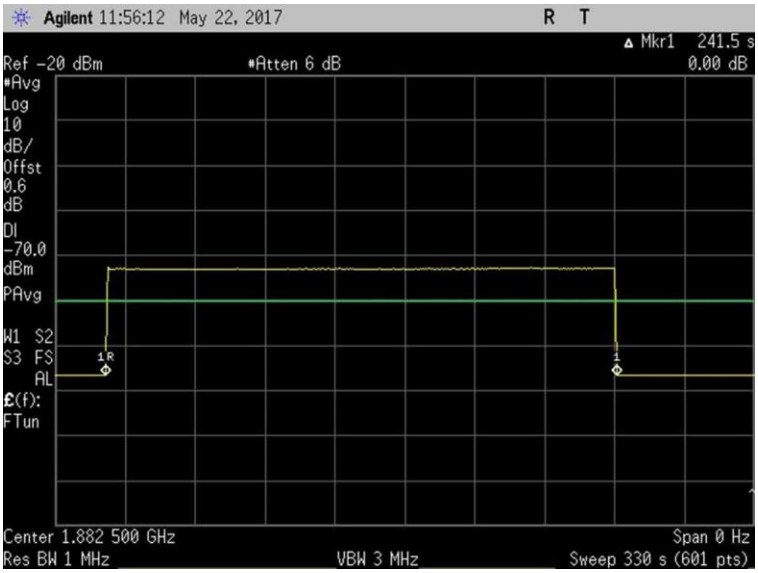
7.8_InactivityUL_776-787MHz



7.8_InactivityUL_824-849MHz



7.8_InactivityUL_1710-1755MHz



7.8_InactivityUL_1850-1915MHz

7.9 Booster Gain Limit

Test Conditions / Setup

Test Location:	CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170		
Customer:	Cellphone-Mate, Inc		
Specification:	**7.9 Variable Booster gain(Max Gain / Variable Uplink Gain Timing)**		
Work Order #:	**99983**	Date:	5/23/2017
Test Type:	**Conducted Emissions**	Time:	13:53:00 PM
Tested By:	**Daniel Bertran**	Sequence#:	1
Software:	EMITest 5.03.02		

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N

Test Conditions / Notes:

The equipment under test (EUT) is a Mobile Wideband Consumer Booster.
The EUT is placed on the test bench. Evaluation performed at the Outside (Donor) and Inside (Server) antenna port.
The EUT Server port is a type FME connector and 50-ohm impedance.
The EUT Donor port is type FME connector and 50-ohm impedance.
Part 22
UL: 824-849MHz
DL: 869-894MHz
Part 24
UL: 1850-1915MHz
DL: 1930-1995MHz
Part 27
UL: 1710-1755MHz, 698-716MHz, 776-787MHz
DL: 2110-2155MHz, 728-746MHz, 746-757MHz

Test procedure:
The test was performed in accordance with section 7.9 of the FCC document: 935210 D03 Wideband Consumer Signal Booster Measurement Guidance v04 Dated February 12, 2016.
Firmware: 1.7
Test environment conditions: Test environment conditions: 25°C, 45% Relative Humidity, 101.5kPa
Note:
Used MSCL provided by the manufacture's antenna kitting.

Mobile station coupling loss (MSCL): *the minimum coupling loss (in dB) between the wireless device and the input (server) port of the consumer booster. MSCL must be calculated or measured for each band of operation and provided in compliance test reports. MSCL includes the path loss from the wireless device, and the booster's server antenna gain and cable loss. The wireless device is assumed to be an isotropic (0 dBi) antenna reference. Minimum standoff distances from inside wireless devices to the booster's server antenna must be reasonable and specified by the manufacturer in customer provided installation manuals.*

L P = 20logf + 20logd – 27.5
Where:
L P = basic free space path loss,
f = Center frequency,
d = 1 meter.

MSCL

Frequency (MHz)	MSCL (dB)
1850-1915	37.9
824-849	32.6
698-716	31.8
779-787	30.9
1710-1755	37.0

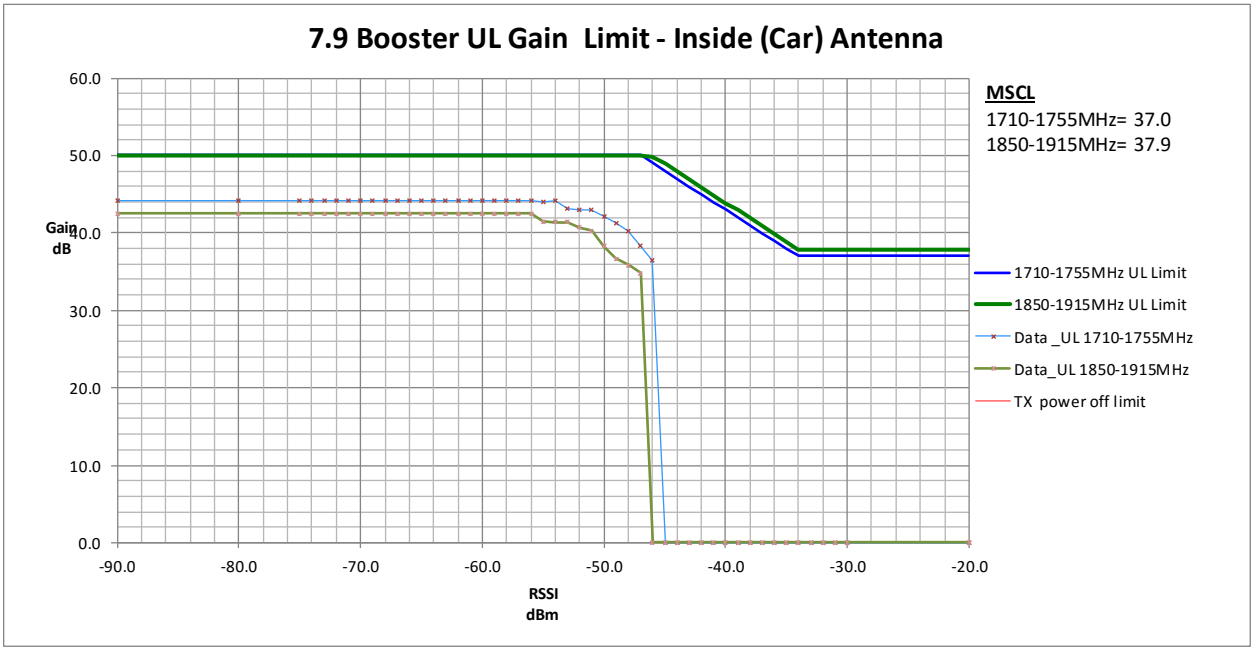
Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN03418	Signal Generator	E4438C	7/30/2015	7/30/2017
	ANP06239	Attenuator	54A-10	8/8/2016	8/8/2018
	ANP06897	Cable	32022-29094K-29094K-48TC	12/30/2015	12/30/2017
	ANP06898	Cable	32022-29094K-29094K-48TC	12/30/2015	12/30/2017
	ANP05411	Attenuator	54A-10	1/18/2016	1/18/2018
	AN03471	Spectrum Analyzer	E4440A	1/4/2016	1/4/2018
	ANC00082	RF Coupler	722-10-1.500V	8/26/2015	8/26/2017
	C00032	Signal Generator	E4438B	2/26/2016	2/26/2018

Summary of Results

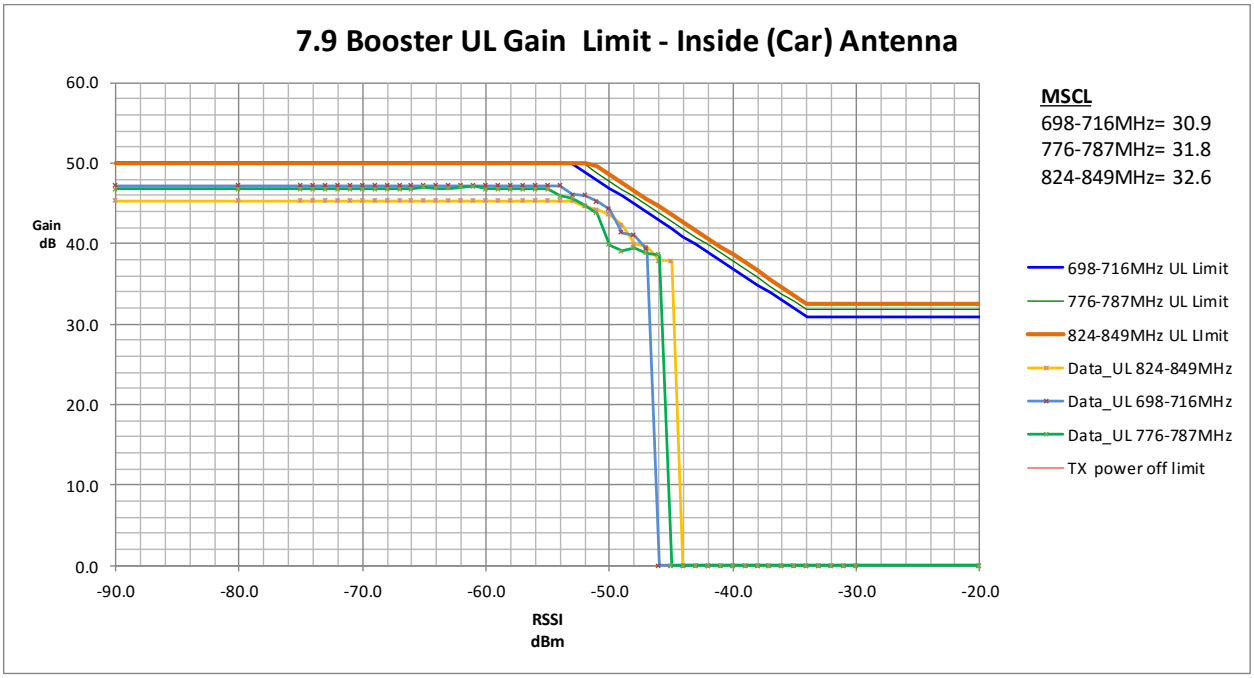
Pass: As demonstrated, computed gains are within the gain limit. All maximum variable uplink gain timings are within 3 second limit.

7.9.1 Maximum gain



1710.0			1755.0 MHz				
				Limit			Margin
RSSI (dBm)	Input (dBm)	Measured Output (dBm)	Measured Gain (dBm)	RSSI Dependent	Mobile Booster Limit	TX off	
-75.0	-27.1	17.1	44.2		50.0		-5.8
-71.0	-27.1	17.1	44.2		50.0		-5.8
-46.0	-27.1	9.3	36.4	49.0			-12.6
-38.0	-27.1	-57.0	0.0	41.0			-41.0
-37.0	-27.1	-57.0	0.0	40.0			-40.0
-36.0	-27.1	-57.0	0.0	39.0			-39.0

1850.0			1915.0 MHz				
				Limit			Margin
RSSI (dBm)	Input (dBm)	Measured Output (dBm)	Measured Gain (dBm)	RSSI Dependent	Mobile Booster Limit	TX off	
-70.0	-28.0	14.5	42.5		50.0		-7.5
-56.0	-28.0	14.5	42.5		50.0		-7.5
-38.0	-28.0	-57.0	0.0	41.9			-41.9
-37.0	-28.0	-57.0	0.0	40.9			-40.9
-36.0	-28.0	-57.0	0.0	39.9			-39.9
-35.0	-28.0	-57.0	0.0	38.9			-38.9



824.0				849.0 MHz			
				Limit			Margin
RSSI (dBm)	Input (dBm)	Measured Output (dBm)	Measured Gain (dBm)	RSSI Dependent	Mobile Booster Limit	TX off	
-70.0	-29	16.3	45.3		50.0		-4.7
-57.0	-29	16.3	45.3		50.0		-4.7
-51.0	-29	15.2	44.2	49.6			-5.4
-50.0	-29	14.6	43.6	48.6			-5.0
-49.0	-29	13.3	42.3	47.6			-5.3
-45.0	-29	8.9	37.9	43.6			-5.7

698.0				716.0 MHz			
				Limit			Margin
RSSI (dBm)	Input (dBm)	Measured Output (dBm)	Measured Gain (dBm)	RSSI Dependent	Mobile Booster Limit	TX off	
-73.0	-31.2	16.0	47.2		50.0		-2.8
-64.0	-31.2	16.0	47.2		50.0		-2.8
-52.0	-31.2	14.8	46.0	48.9			-2.9
-51.0	-31.2	14.0	45.2	47.9			-2.7
-50.0	-31.2	13.1	44.3	46.9			-2.6
-48.0	-31.2	9.8	41.0	44.9			-3.9

776.0				787.0 MHz			
				Limit			Margin
RSSI (dBm)	Input (dBm)	Measured Output (dBm)	Measured Gain (dBm)	RSSI Dependent	Mobile Booster Limit	TX off	
-65.0	-30.0	17.0	47.0		50.0		-3.0
-61.0	-30.0	17.1	47.1		50.0		-2.9
-52.0	-30.0	14.7	44.7	49.8			-5.1
-51.0	-30.0	13.8	43.8	48.8			-5.0
-47.0	-30.0	8.8	38.8	44.8			-6.0
-46.0	-30.0	8.6	38.6	43.8			-5.2

7.9.2 Variable uplink gain timing

Uplink Gain Timing		
Frequency (MHz)	**Measured (Sec)**	**Limit (Sec)**
UL 1710-1755	0.55	1
UL 1850-1915	0.45	1
UL 824-849	0.32	1
UL 698-716	0.40	1
UL 776-787	0.30	1

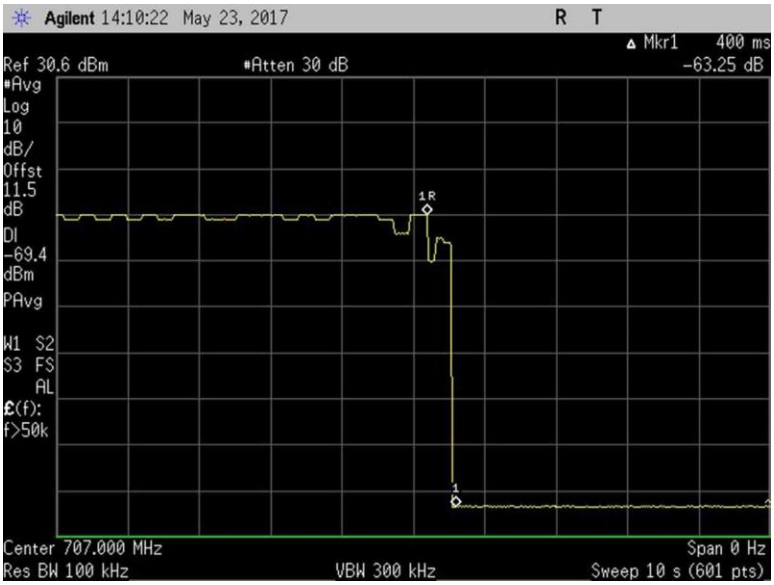
7.9.1 Maximum Gain

For this subsection, see summary of results of 7.9
7.9.1 Maximum gain

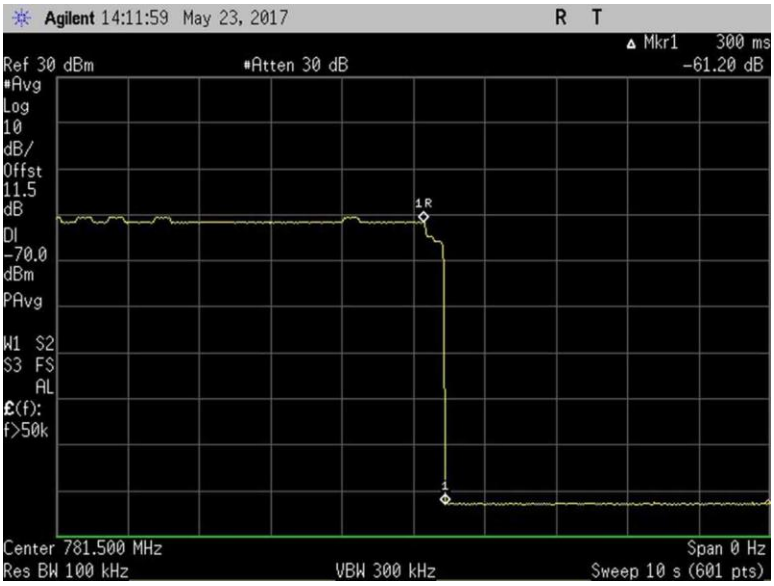
7.9.2 Variable uplink Gain Timing

Plots

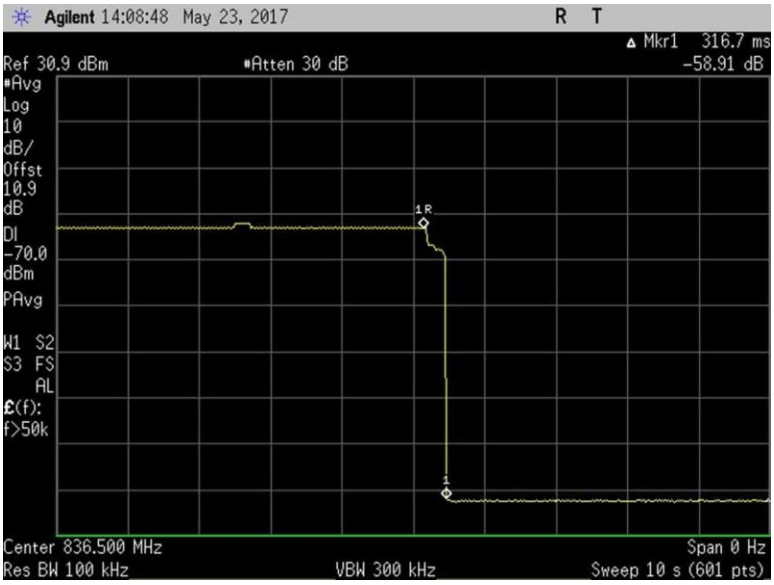
UL



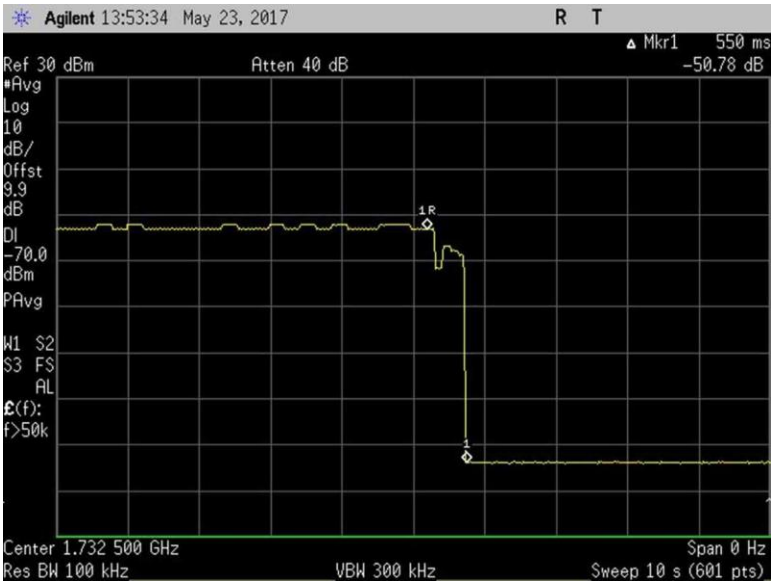
7.9.2_VarULGainTiming_UL_698-716MHz



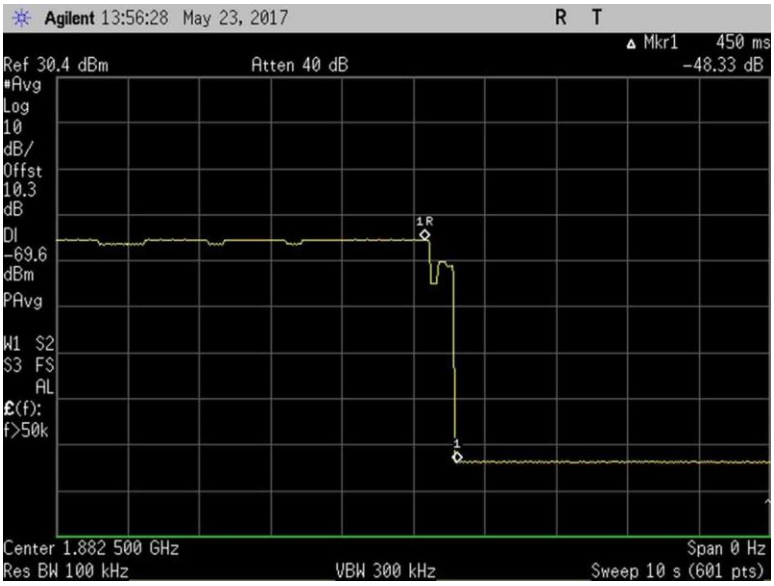
7.9.2_VarULGainTiming_UL_776-787MHz



7.9.2_VarULGainTiming_UL_824-849MHz



7.9.2_VarULGainTiming_UL_1710-1755MHz



7.9.2_VarULGainTiming_UL_1850-1915MHz

7.10 Occupied Band Width

Test Conditions / Setup

Test Location:	CKC Laboratories, Inc • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170		
Customer:	Cellphone-Mate, Inc		
Specification:	**7.10 Occupied Band Width / 47 CFR §2.1049 Occupied Band Width**		
Work Order #:	**99983**	Date:	5/22/2017
Test Type:	**Conducted Emissions**	Time:	13:17:00 PM
Tested By:	**Daniel Bertran**	Sequence#:	1
Software:	EMITest 5.03.02		

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N

Test Conditions / Notes:

The equipment under test (EUT) is a Mobile Wideband Consumer Booster.
The EUT is placed on the test bench. Evaluation performed at the Outside (Donor) and Inside (Server) antenna port.
The EUT Server port is a type FME connector and 50-ohm impedance.
The EUT Donor port is type FME connector and 50-ohm impedance.
Part 22
UL: 824-849MHz
DL: 869-894MHz
Part 24
UL: 1850-1915MHz
DL: 1930-1995MHz
Part 27
UL: 1710-1755MHz, 698-716MHz, 776-787MHz
DL: 2110-2155MHz, 728-746MHz, 746-757MHz

Test procedure:
The test was performed in accordance with section 7.10 of the FCC document: 935210 D03 Wideband Consumer Signal Booster Measurement Guidance v04 Dated February 12, 2016.
Firmware: 1.7
Test environment conditions: Test environment conditions: 22°C, 45% Relative Humidity, 101.5 kPa

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN03418	Signal Generator	E4438C	7/30/2015	7/30/2017
	ANP06239	Attenuator	54A-10	8/8/2016	8/8/2018
	ANP06897	Cable	32022-29094K-29094K-48TC	12/30/2015	12/30/2017
	ANP06898	Cable	32022-29094K-29094K-48TC	12/30/2015	12/30/2017
	ANP05411	Attenuator	54A-10	1/18/2016	1/18/2018
	AN03471	Spectrum Analyzer	E4440A	1/4/2016	1/4/2018

Summary of Results

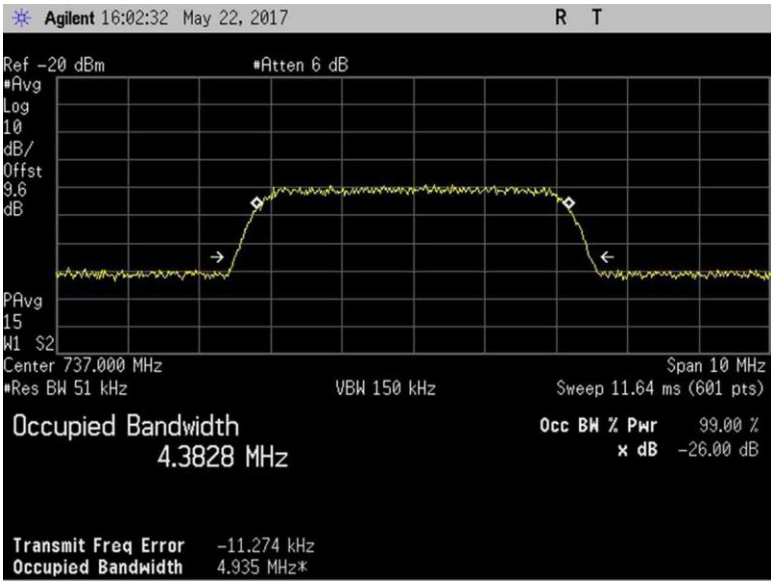
Pass: As summarized in plots and table below, the uniformity of the output signal relative to the input signal are practically identical. Therefore, the comparison is within limits.

OBW-Input (Hz)							OBW-Output (Hz)				
EDGE	GSM	CDMA	WCDMA	LTE			EDGE	GSM	CDMA	WCDMA	LTE
315788	314370	1358604	4909805	4753502			314140	313541	1364080	4927654	4745439
315148	318521	1358950	4943106	4749138			313370	314358	1367825	4933914	4741862
312644	314723	1363435	4904805	4803807			318072	313344	1365654	4925392	4763371
315449	312534	1361271	4919981	4756300			310944	312601	1363701	4893393	4754433
313984	314310	1356552	4944323	4774959			314241	315156	1320045	4900426	4722457
314962	310087	1367565	4952013	4790679			316123	315134	1367457	4931778	4840708
316466	314467	1363513	4933714	4819468			314740	314641	1356942	4936940	4792990
314587	313775	1367332	4947384	4805381			314763	316359	1369047	4887724	4768251
315760	312635	1358312	4934837	4860923			313384	313743	1366523	4898758	4767731
315165	314430	1371608	4928200	4808815			315523	310124	1354610	4890753	4807922

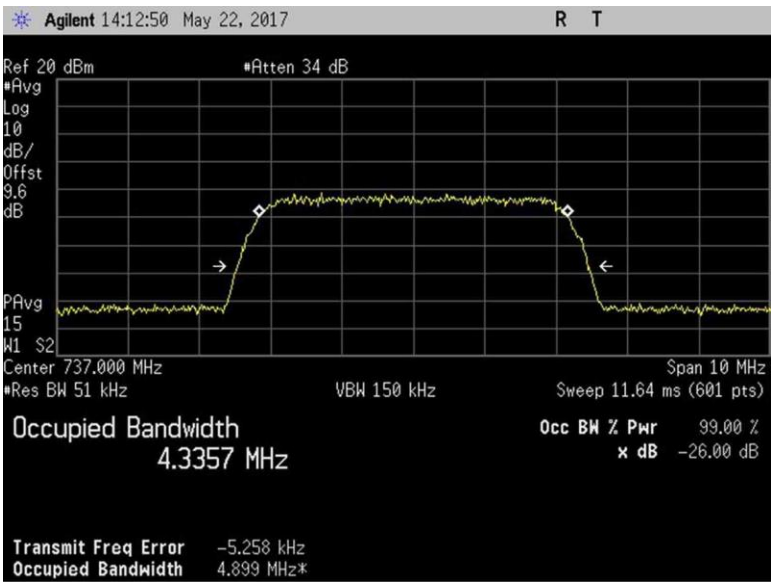
Occupied Bandwidth Difference at -26dB (%)					
Frequency Range	**EDGE**	**GSM**	**CDMA**	**WCDMA**	**LTE**
UL_1710-1755MHz	0.52%	0.26%	0.40%	0.36%	0.17%
UL_1850-1915MHz	0.56%	1.31%	0.65%	0.19%	0.15%
UL_824-849MHz	1.74%	0.44%	0.16%	0.42%	0.84%
UL_698-716MHz	1.43%	0.02%	0.18%	0.54%	0.04%
UL_776-787MHz	0.08%	0.27%	2.69%	0.89%	1.10%
DL_2110-2155MHz	0.37%	1.63%	0.01%	0.41%	1.04%
DL_1930-1995MHz	0.55%	0.06%	0.48%	0.07%	0.55%
DL_869-894MHz	0.06%	0.82%	0.13%	1.21%	0.77%
DL_728-746MHz	0.75%	0.35%	0.60%	0.73%	1.92%
DL_746-757MHz	0.11%	1.37%	1.24%	0.76%	0.02%

Plots

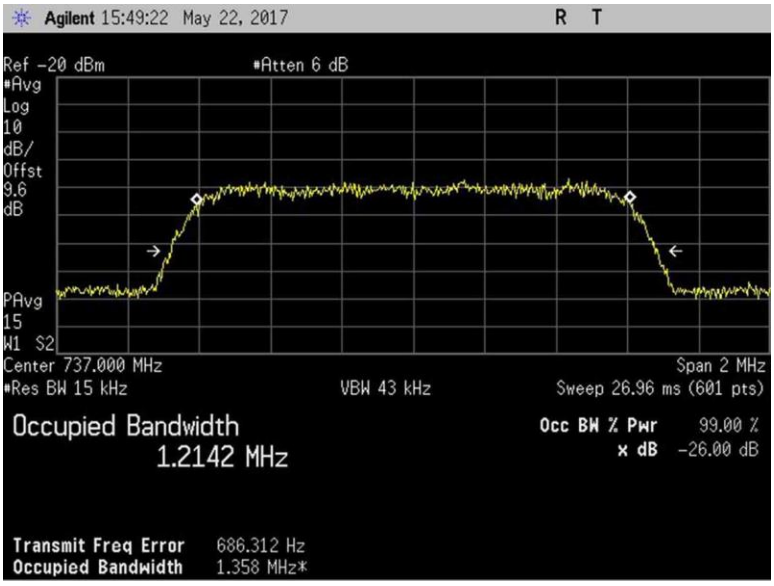
DL
AWGN, CDMA, EDGE, GSM and LTE



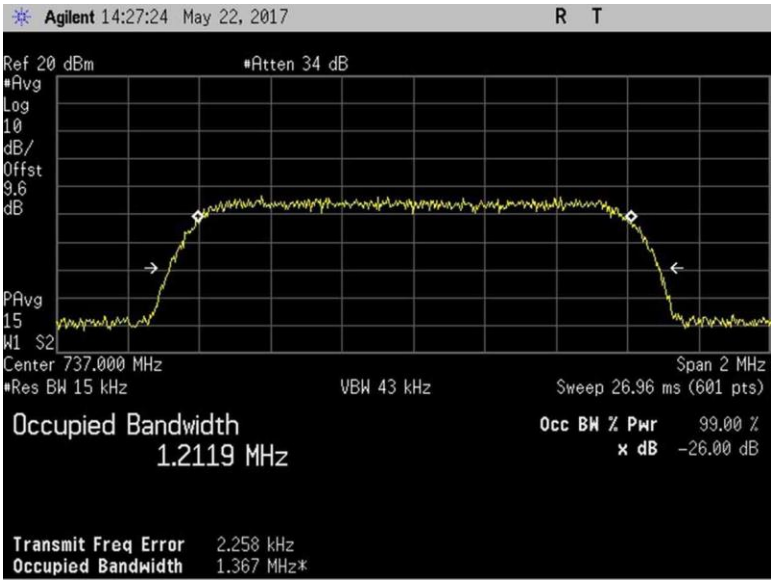
7.10_OBW_DL_728-746MHz_AWGN_In



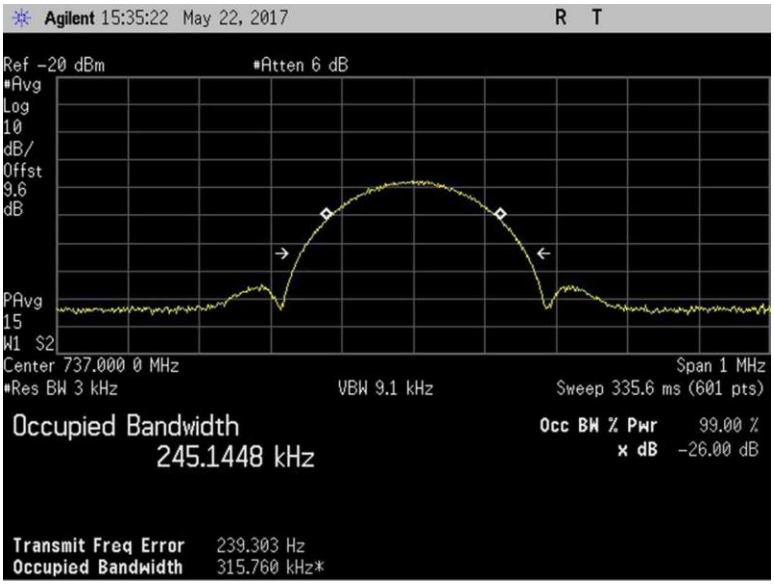
7.10_OBW_DL_728-746MHz_AWGN_Out



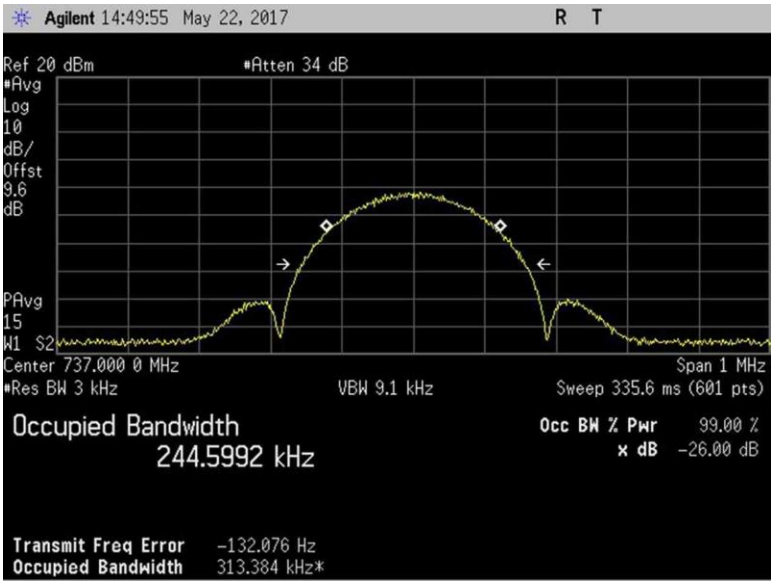
7.10_OBW_DL_728-746MHz_CDMA_In



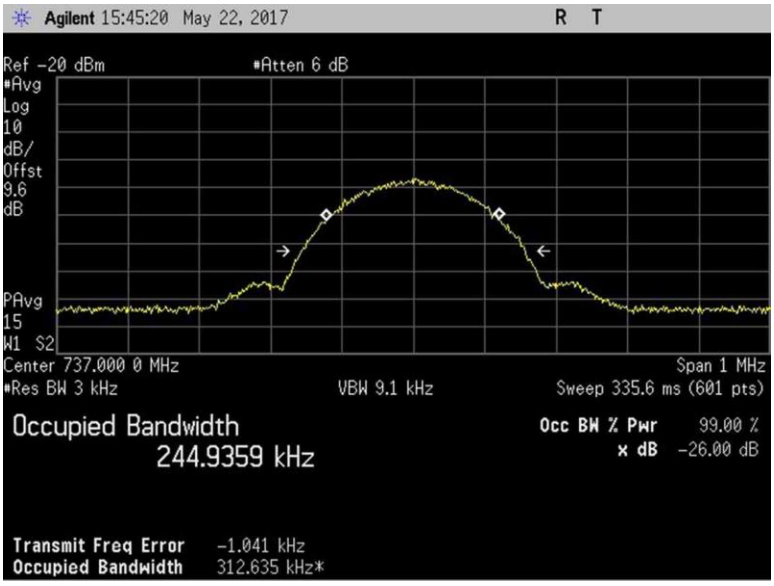
7.10_OBW_DL_728-746MHz_CDMA_Out



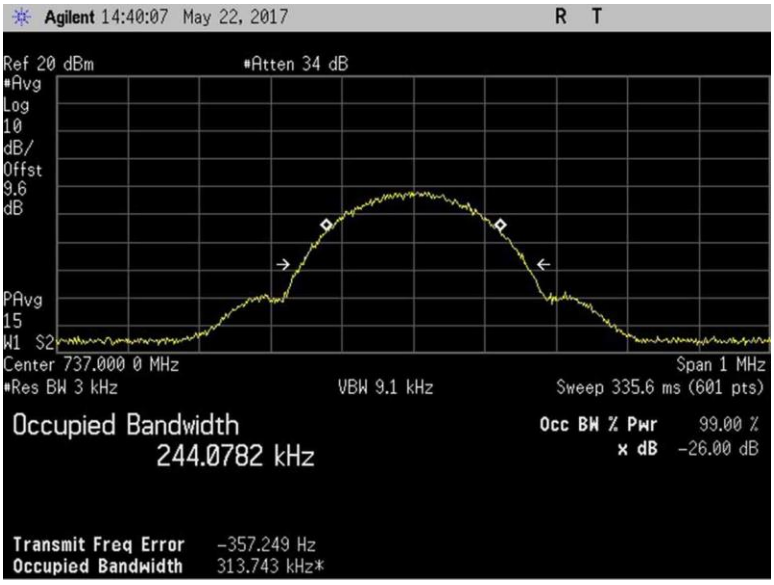
7.10_OBW_DL_728-746MHz_EDGE_In



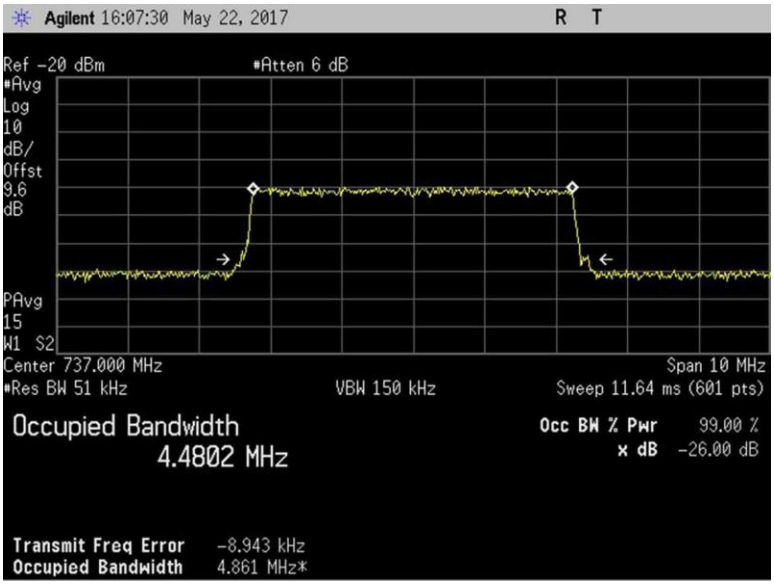
7.10_OBW_DL_728-746MHz_EDGE_Out



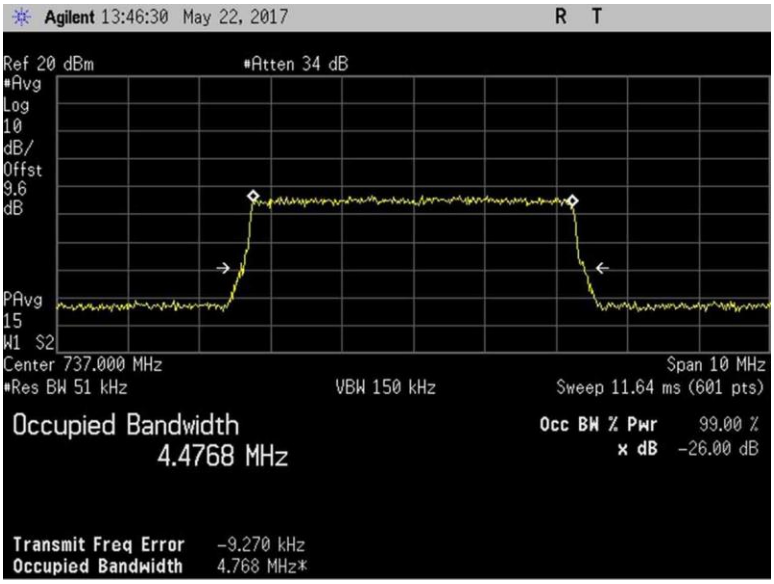
7.10_OBW_DL_728-746MHz_GSM_In



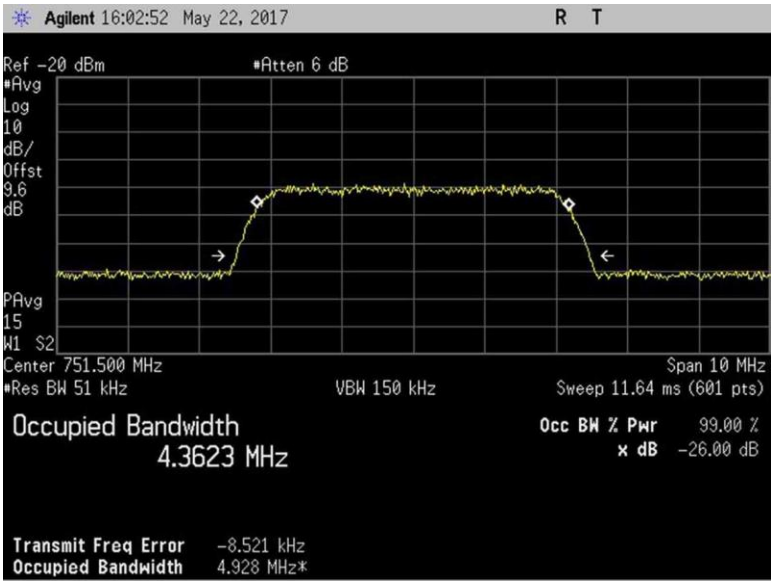
7.10_OBW_DL_728-746MHz_GSM_Out



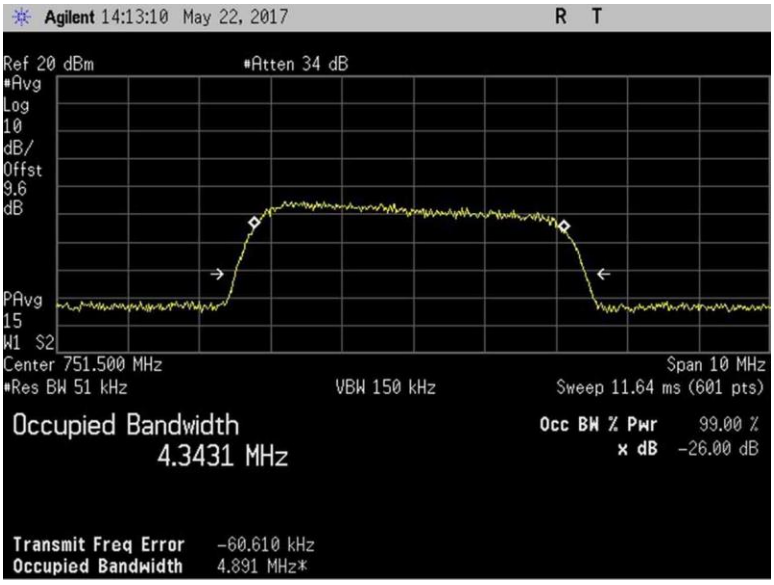
7.10_OBW_DL_728-746MHz_LTE_In



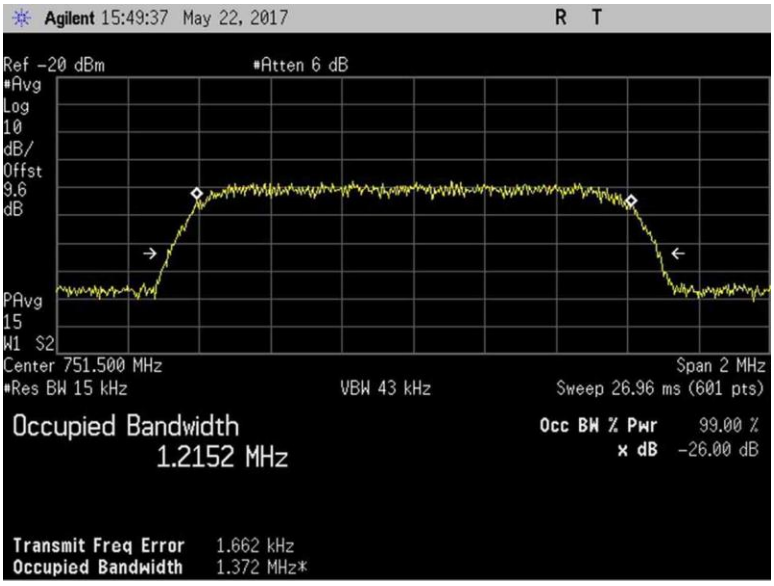
7.10_OBW_DL_728-746MHz_LTE_Out



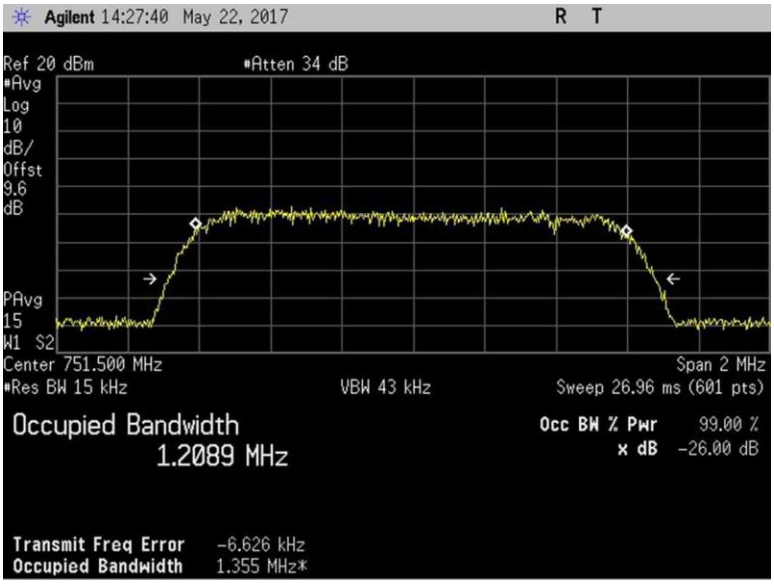
7.10_OBW_DL_746-757MHz_AWGN_In



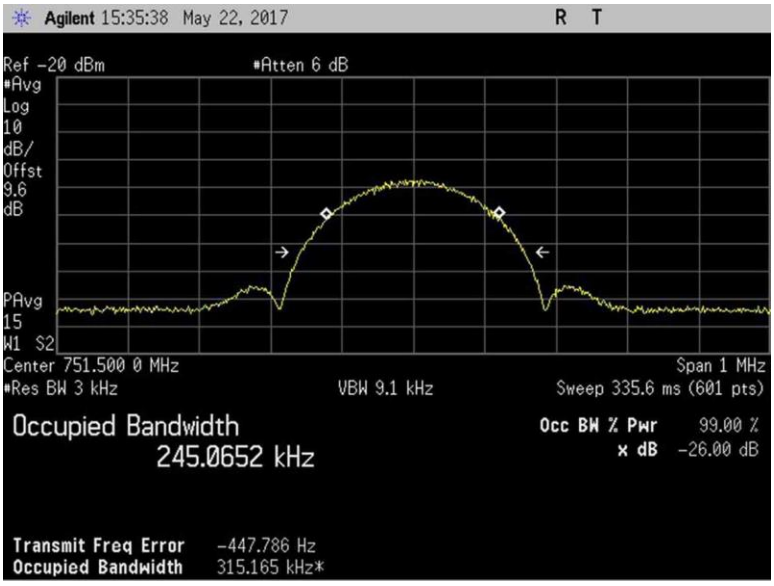
7.10_OBW_DL_746-757MHz_AWGN_Out



7.10_OBW_DL_746-757MHz_CDMA_In

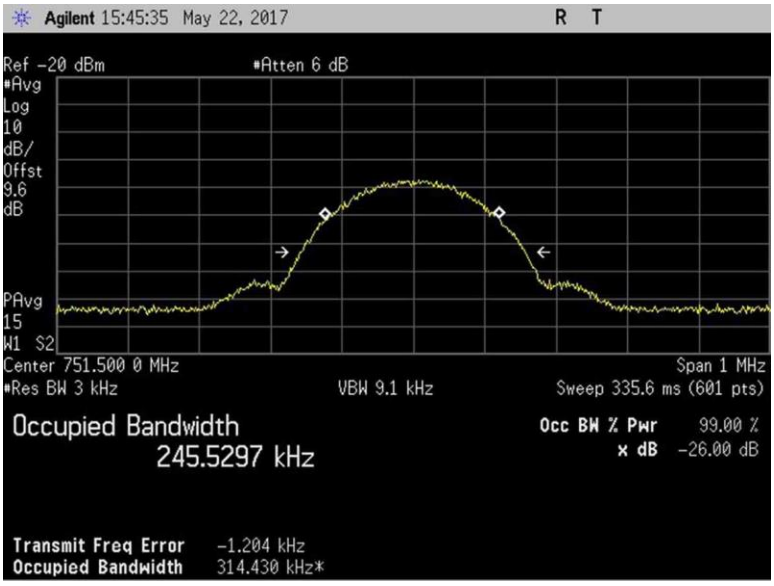


7.10_OBW_DL_746-757MHz_CDMA_Out

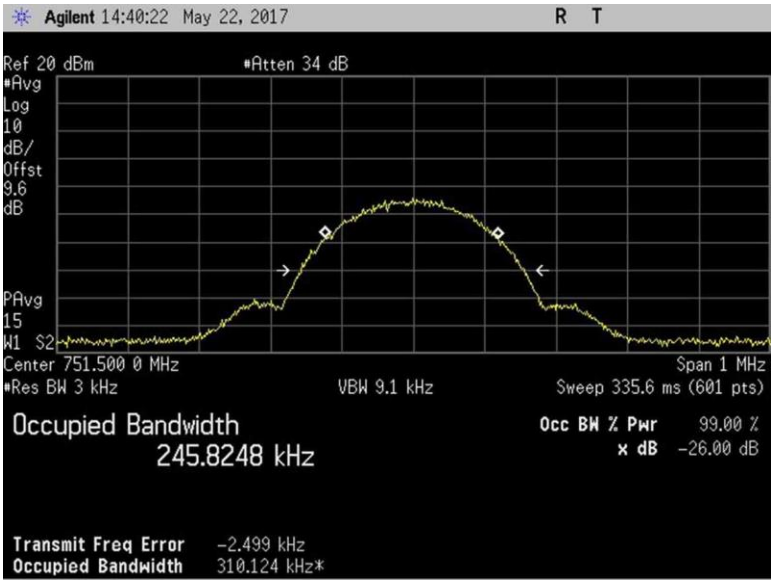


7.10_OBW_DL_746-757MHz_EDGE_In

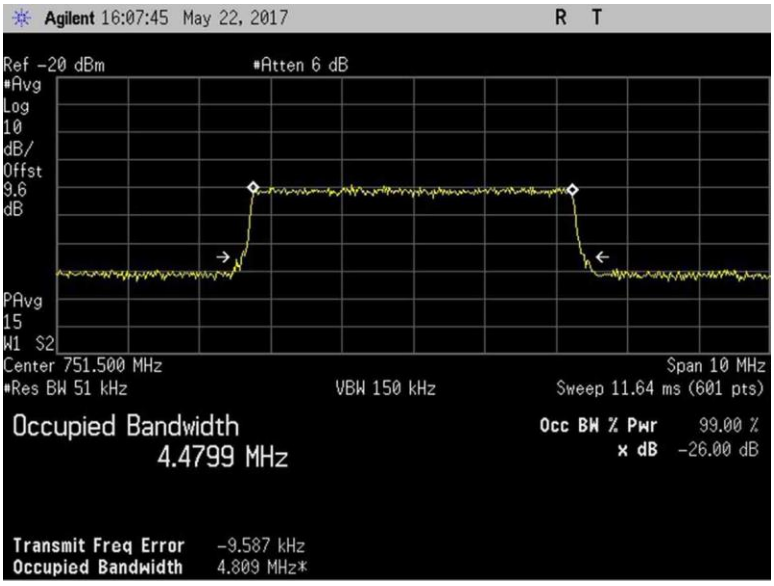
7.10_OBW_DL_746-757MHz_EDGE_Out



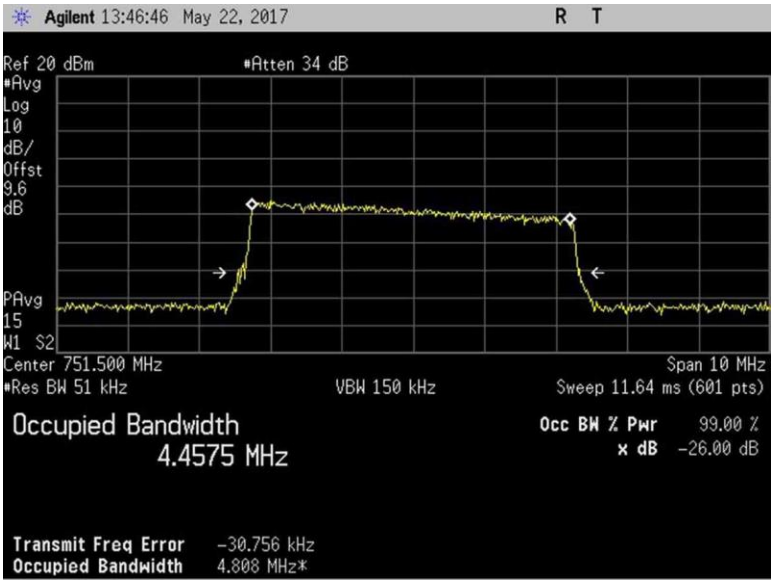
7.10_OBW_DL_746-757MHz_GSM_In



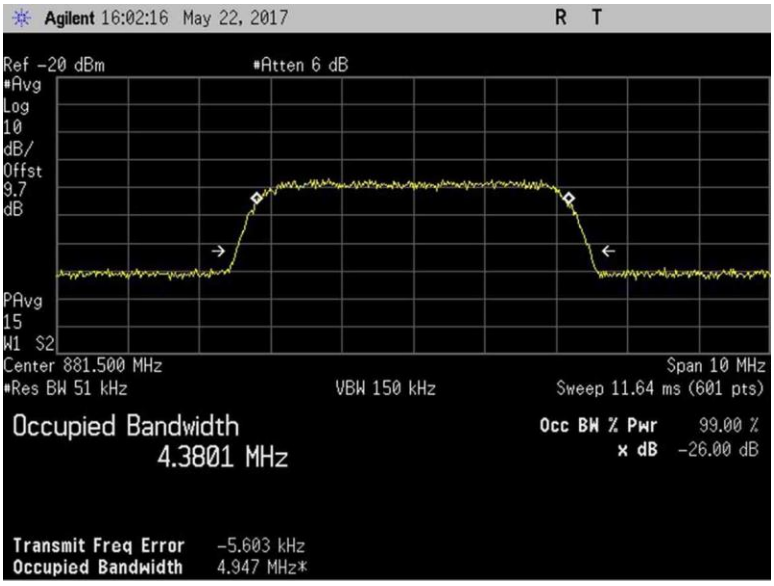
7.10_OBW_DL_746-757MHz_GSM_Out



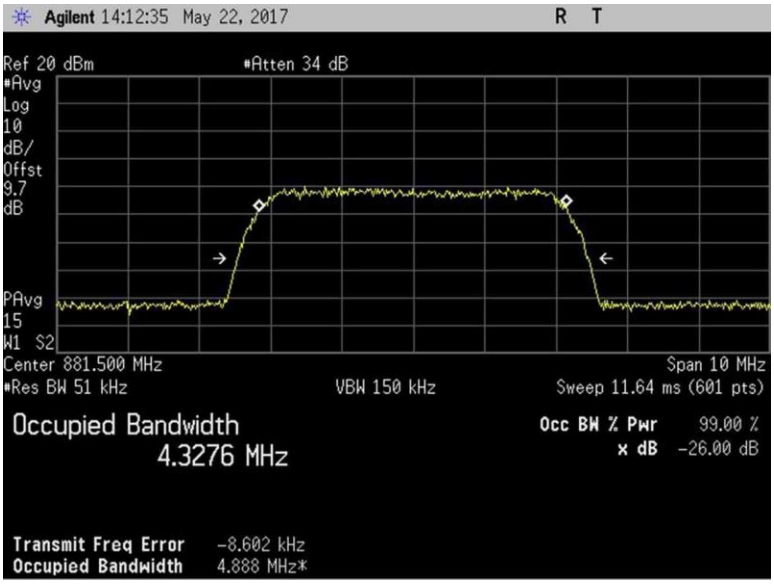
7.10_OBW_DL_746-757MHz_LTE_In



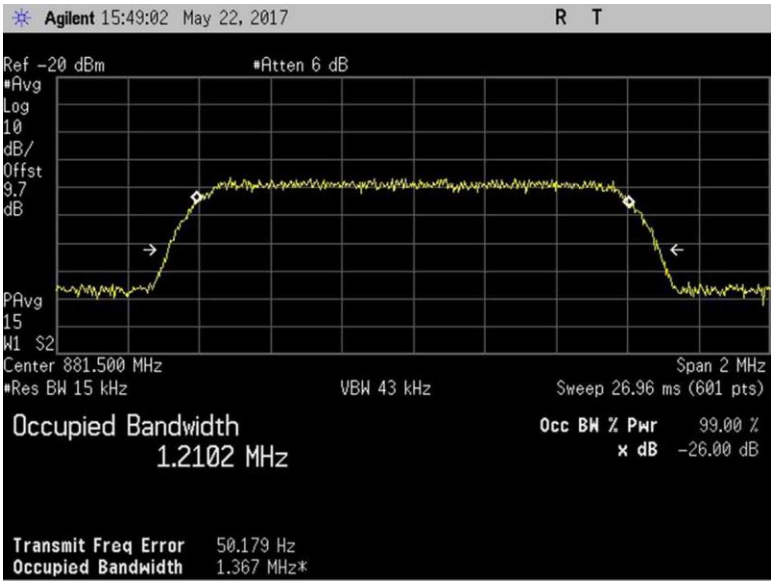
7.10_OBW_DL_746-757MHz_LTE_Out



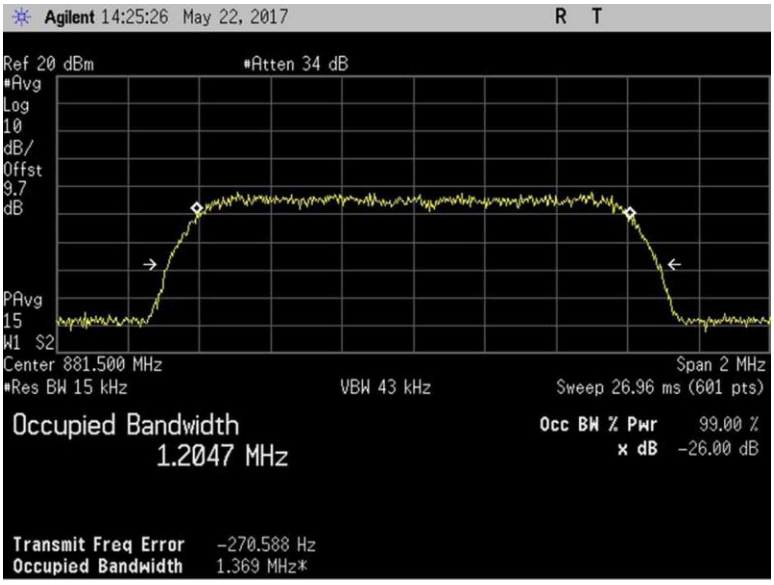
7.10_OBW_DL_869-894MHz_AWGN_In



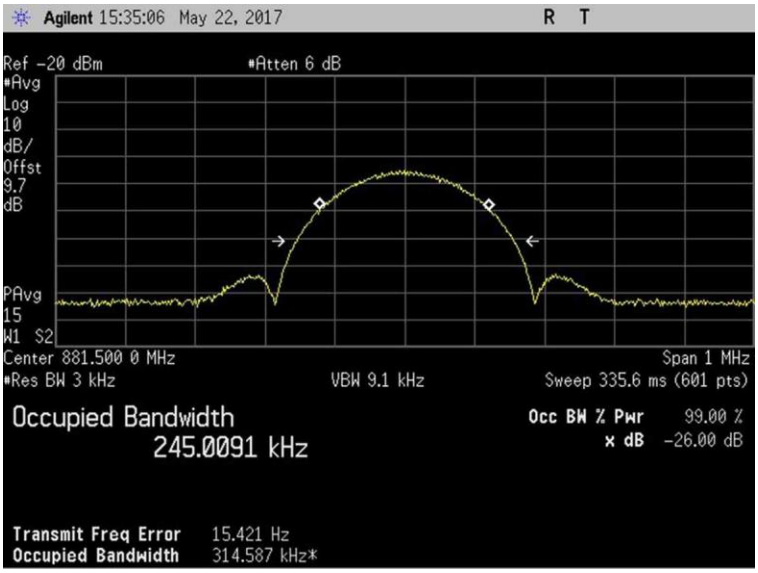
7.10_OBW_DL_869-894MHz_AWGN_Out



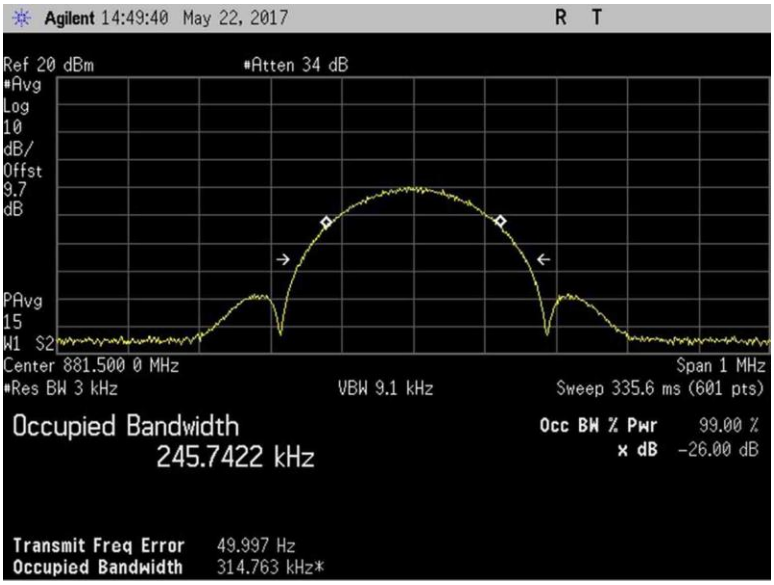
7.10_OBW_DL_869-894MHz_CDMA_In



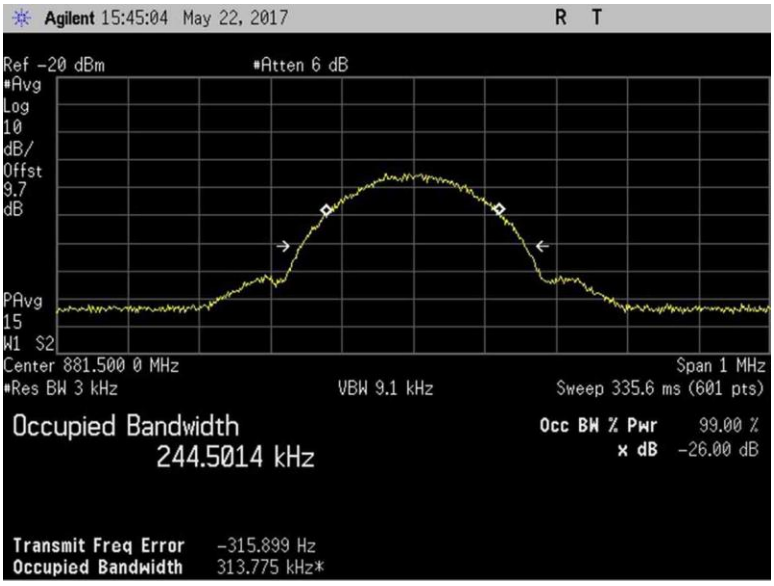
7.10_OBW_DL_869-894MHz_CDMA_Out



7.10_OBW_DL_869-894MHz_EDGE_In

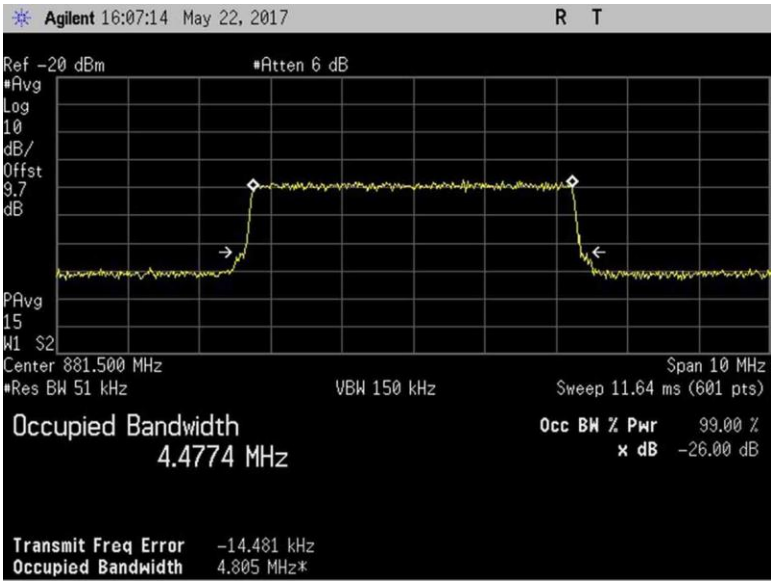


7.10_OBW_DL_869-894MHz_EDGE_Out

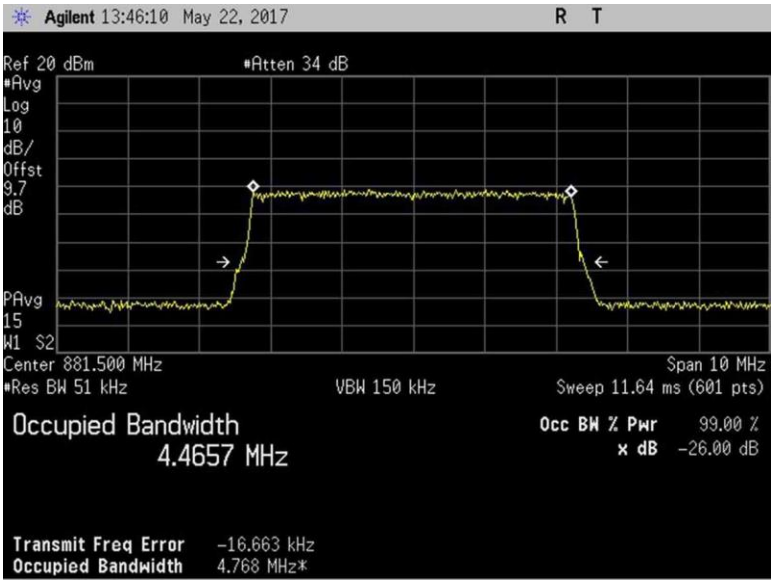


7.10_OBW_DL_869-894MHz_GSM_In

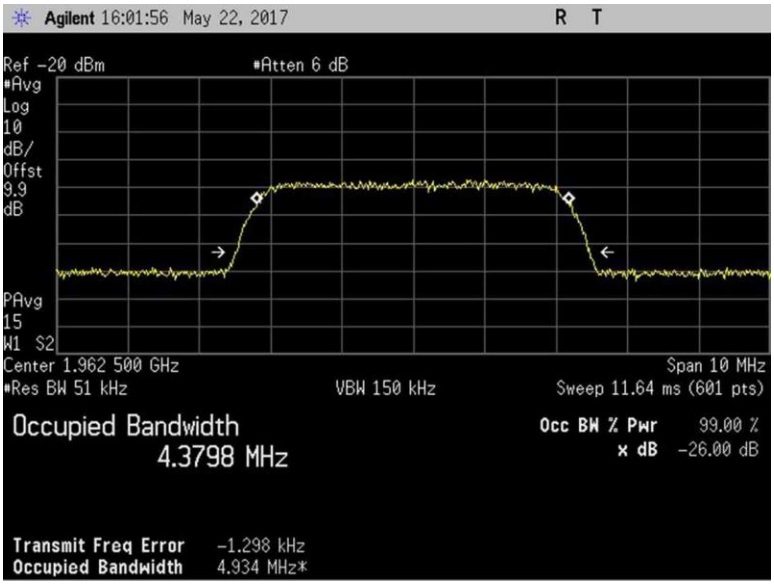
7.10_OBW_DL_869-894MHz_GSM_Out



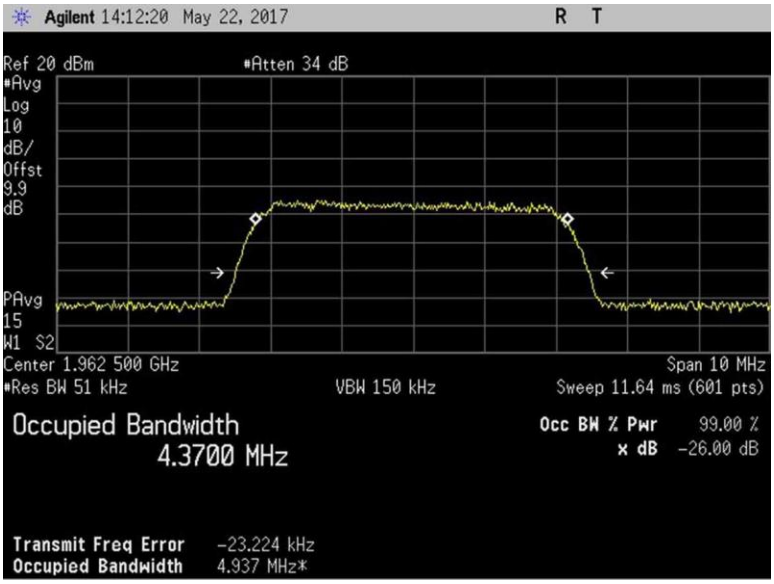
7.10_OBW_DL_869-894MHz_LTE_In



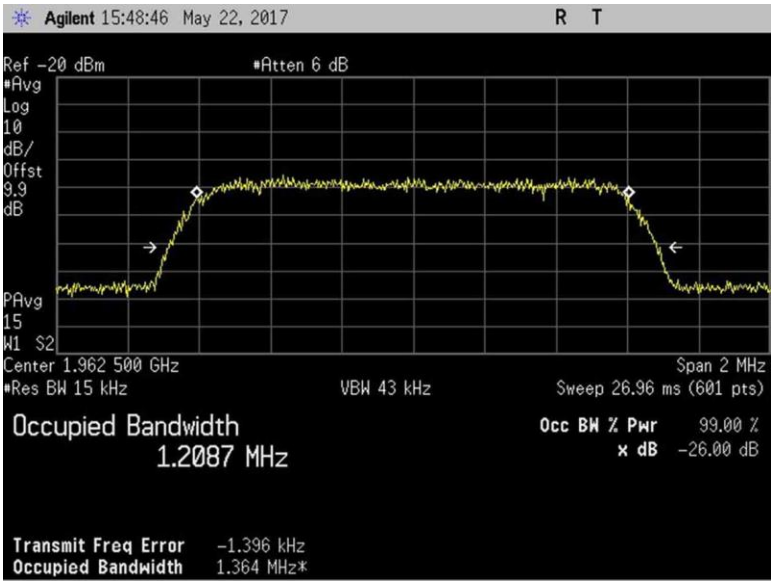
7.10_OBW_DL_869-894MHz_LTE_Out



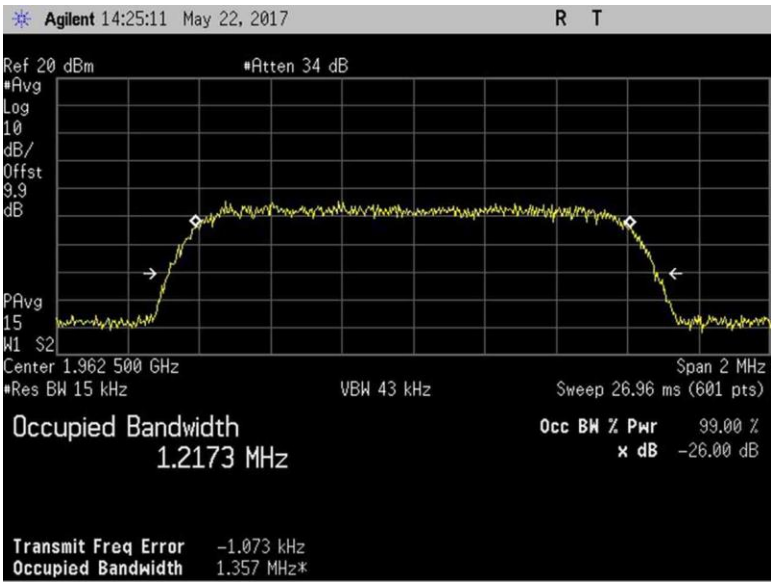
7.10_OBW_DL_1930-1995MHz_AWGN_In



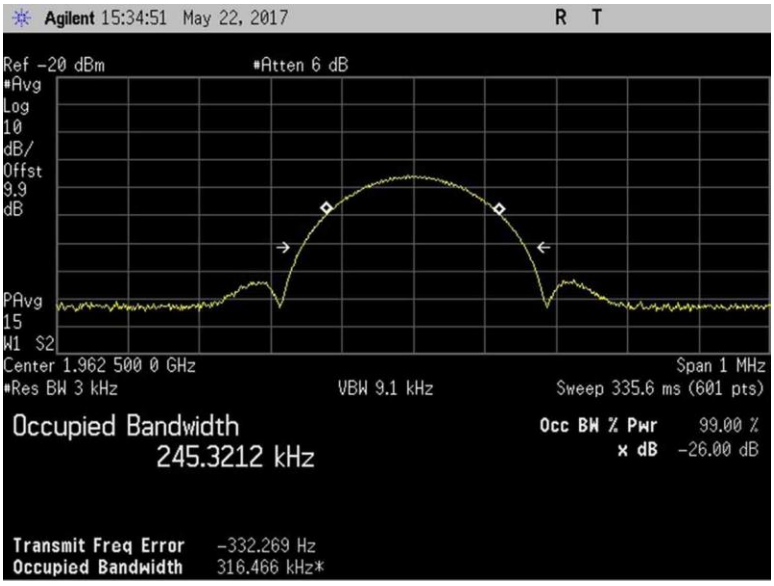
7.10_OBW_DL_1930-1995MHz_AWGN_Out



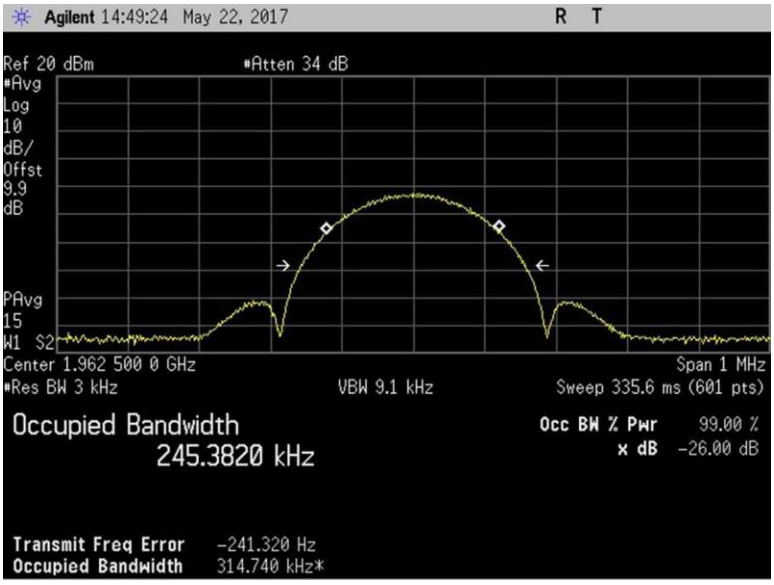
7.10_OBW_DL_1930-1995MHz_CDMA_In



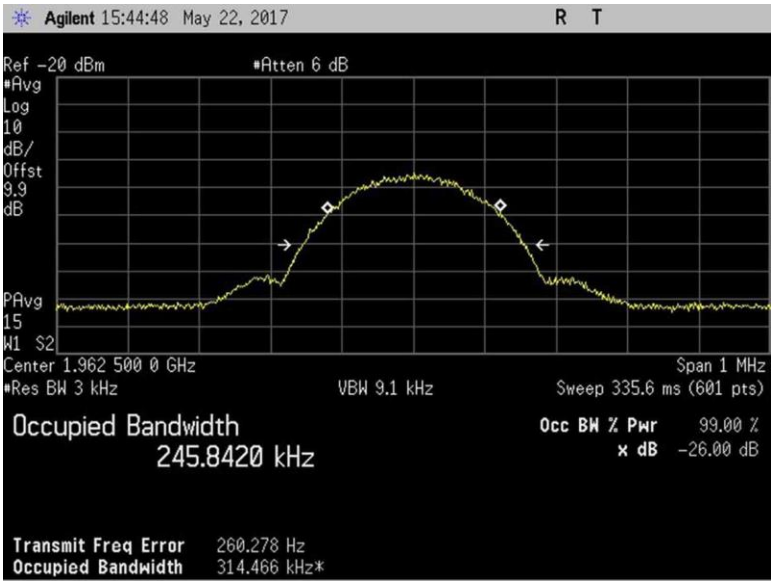
7.10_OBW_DL_1930-1995MHz_CDMA_Out



7.10_OBW_DL_1930-1995MHz_EDGE_In

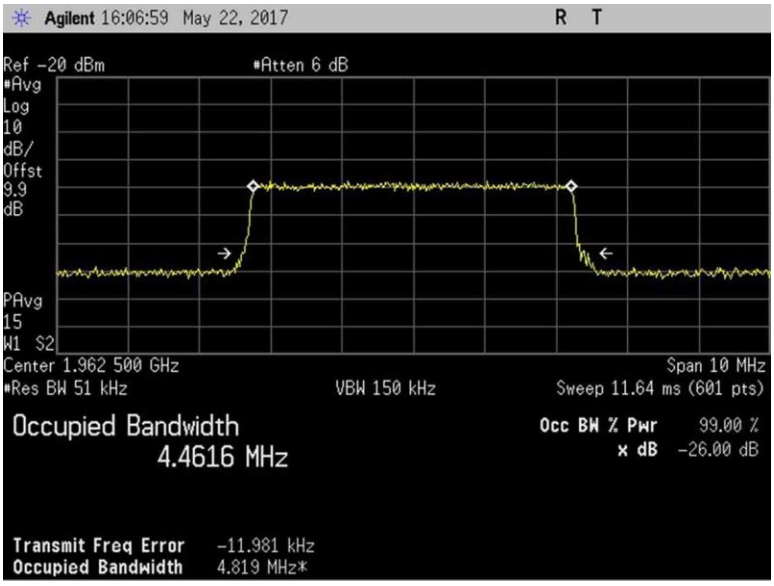


7.10_OBW_DL_1930-1995MHz_EDGE_Out

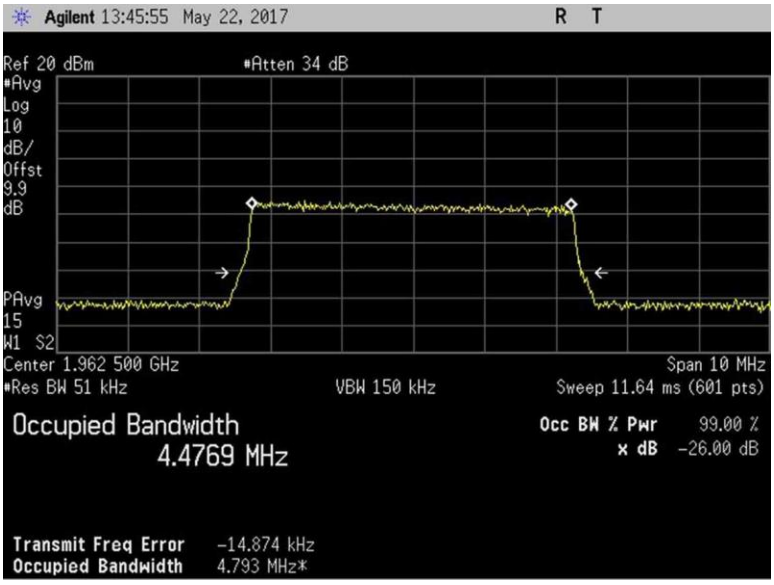


7.10_OBW_DL_1930-1995MHz_GSM_In

7.10_OBW_DL_1930-1995MHz_GSM_Out



7.10_OBW_DL_1930-1995MHz_LTE_In



7.10_OBW_DL_1930-1995MHz_LTE_Out