

Annex B. Subcontracted Test Results

The results in this annex are issued from the subcontractor test report reference 45006RRF003

B.1.1 Frequency stability over temperature variations.

FDD Band 7, channel frequency 2535 MHz

MODULATION QPSK (20MHz, RB 100)

Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
+50	-21.09	-0,00832	-0,0000008319527
+40	-19.54	-0,00771	-0,0000007708087
+30	-20.20	-0,00797	-0,0000007968442
+20	-22.29	-0,00879	-0,0000008792899
+10	-19.54	-0,00771	-0,0000007708087
0	-21.50	-0,00848	-0,0000008481262
-10	-21.33	-0,00841	-0,0000008414201
-20	-20.33	-0,00802	-0,0000008019724
-30	-16.69	-0,00658	-0,0000006583826

FDD Band 7, channel frequency 2535 MHz

MODULATION 16QAM (20MHz, RB 100)

Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
+50	-21.90	-0,00864	-0,0000008639053
+40	-25.13	-0,00991	-0,0000009913215
+30	-25.98	-0,01025	-0,0000010248521
+20	-22.90	-0,00903	-0,0000009033531
+10	-18.48	-0,00729	-0,0000007289941
0	-20.04	-0,00791	-0,0000007905325
-10	-20.73	-0,00818	-0,0000008177515
-20	-16.34	-0,00645	-0,0000006445759
-30	26.91	0,01062	0,0000010615385

FDD Band 12, channel frequency 707 MHz

MODULATION QPSK (10MHz, RB 50)

Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
+50	6.41	0,00907	0,0000009066478
+40	6.52	0,00922	0,0000009222065
+30	7.05	0,00997	0,0000009971711
+20	6.29	0,00890	0,0000008896747
+10	6.61	0,00935	0,0000009349364
0	6.14	0,00868	0,0000008684583
-10	7.10	0,01004	0,0000010042433
-20	7.41	0,01048	0,0000010480905
-30	6.45	0,00912	0,0000009123055

FDD Band 12, channel frequency 707 MHz

MODULATION 16QAM (10MHz, RB 50)

Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
+50	6.85	0,00969	0,0000009688826
+40	8.08	0,01143	0,0000011428571
+30	5.69	0,00805	0,0000008048091
+20	7.31	0,01034	0,0000010339463
+10	6.27	0,00887	0,0000008868458
0	6.69	0,00946	0,0000009462518
-10	7.02	0,00993	0,0000009929279
-20	7.02	0,00993	0,0000009929279
-30	7.00	0,00990	0,0000009900990

FDD Band 13, channel frequency 782 MHz

MODULATION QPSK (10MHz, RB 50)

Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
+50	6.91	0,00884	0,0000008836317
+40	6.31	0,00807	0,0000008069054
+30	7.78	0,00995	0,0000009948849
+20	6.28	0,00803	0,0000008030691
+10	6.15	0,00786	0,0000007864450
0	6.28	0,00799	0,0000007992327
-10	5.42	0,00693	0,0000006930946
-20	7.14	0,00913	0,0000009130435
-30	6.38	0,00816	0,0000008158568

FDD Band 13, channel frequency 782 MHz

MODULATION 16QAM (10MHz, RB 50)

Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
+50	8.61	0,01101	0,0000011010230
+40	8.45	0,01081	0,0000010805627
+30	6.17	0,00789	0,0000007890026
+20	7.68	0,00982	0,0000009820972
+10	5.78	0,00739	0,0000007391304
0	6.52	0,00834	0,0000008337596
-10	5.45	0,00697	0,0000006969309
-20	5.62	0,00719	0,0000007186701
-30	5.71	0,00730	0,0000007301790

FDD Band 26, channel frequency 831.5 MHz
 MODULATION QPSK (15 MHz, RB 75)

Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
+50	-7.98	-0,00960	-0,0000009597114
+40	6.58	0,00791	0,0000007913410
+30	-7.08	-0,00851	-0,0000008514732
+20	-6.38	-0,00767	-0,0000007672880
+10	7.00	0,00842	0,0000008418521
0	7.12	0,00856	0,0000008562838
-10	-6.27	-0,00754	-0,0000007540589
-20	6.27	0,00754	0,0000007540589
-30	-7.38	-0,00888	-0,0000008875526

FDD Band 26, channel frequency 831.5 MHz
 MODULATION 16QAM (15 MHz, RB 75)

Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
+50	-6.90	-0,00830	-0,0000008298256
+40	-7.15	-0,00860	-0,0000008598918
+30	-7.37	-0,00886	-0,0000008863500
+20	5.98	0,00719	0,0000007191822
+10	7.11	0,00855	0,0000008550812
0	6.02	0,00724	0,0000007239928
-10	7.65	0,00920	0,0000009200241
-20	-6.54	-0,00787	-0,0000007865304
-30	5.48	0,00659	0,0000006590499

TDD Band 41, channel frequency 2593 MHz
 MODULATION QPSK (20MHz, RB=100)

Temperature (°C)	Frequency Error (Hz)	Timing Error (Ts)	Frequency Error (ppm)	Frequency Error (%)
+50	10.87	-4.40	0,00419	0,0000004192056
+40	-7.61	-4.62	-0,00293	-0,0000002934825
+30	-12.87	-4.51	-0,00496	-0,0000004963363
+20	-12.46	-4.69	-0,00481	-0,0000004805245
+10	-11.16	-4.21	-0,00430	-0,0000004303895
0	15.38	-4.56	0,00593	0,0000005931354
-10	-8.88	-4.55	-0,00342	-0,0000003424605
-20	-10.11	-4.67	-0,00390	-0,0000003898959
-30	-10.13	-4.62	-0,00391	-0,0000003906672

TDD Band 41, channel frequency 2593 MHz
 MODULATION 16QAM (20MHz, RB=100)

Temperature (°C)	Frequency Error (Hz)	Timing Error (Ts)	Frequency Error (ppm)	Frequency Error (%)
+50	-9.63	-4.79	-0,00371	-0,0000003713845
+40	-10.96	-4.70	-0,00423	-0,0000004226764
+30	-12.35	-4.83	-0,00476	-0,0000004762823
+20	-11.62	-4.69	-0,00448	-0,0000004481296
+10	11.62	-4.49	0,00448	0,0000004481296
0	-11.37	-4.91	-0,00438	-0,0000004384882
-10	9.57	-4.77	0,00369	0,0000003690706
-20	-10.57	-4.41	-0,00408	-0,0000004076359
-30	8.08	-4.77	0,00312	0,0000003116082

B.1.2 Frequency stability over voltage variations.

FDD Band 7, channel frequency 2535 MHz

MODULATION QPSK (20MHz, RB 100)

Battery Supply voltage	Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
Vmax	3.8	-21.40	-0,00844	-0,0000008441815
Vmin	2.8	-20.76	-0,00819	-0,0000008189349

FDD Band 7, channel frequency 2535 MHz

MODULATION 16QAM (20MHz, RB 100)

Battery Supply voltage	Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
Vmax	3.8	-19.90	-0,00785	-0,0000007850099
Vmin	2.8	-25.48	-0,01005	-0,0000010051282

FDD Band 12, channel frequency 707 MHz

MODULATION QPSK (10MHz, RB 50)

Battery Supply voltage	Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
Vmax	3.8	7.02	0,00993	0,0000009929279
Vmin	2.8	7.25	0,01025	0,0000010254597

FDD Band 12, channel frequency 707 MHz

MODULATION 16QAM (10MHz, RB 50)

Battery Supply voltage	Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
Vmax	3.8	6.88	0,00973	0,0000009731259
Vmin	2.8	6.79	0,00960	0,0000009603960

FDD Band 13, channel frequency 782 MHz

MODULATION QPSK (10MHz, RB 50)

Battery Supply voltage	Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
Vmax	3.8	6.44	0.00824	0.0000008235294
Vmin	2.8	6.49	0.00830	0.0000008299233

FDD Band 13, channel frequency 782 MHz

MODULATION 16QAM (10MHz, RB 50)

Battery Supply voltage	Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
Vmax	3.8	6.37	0.00815	0.0000008145780
Vmin	2.8	7.01	0.00896	0.0000008964194

FDD Band 26, channel frequency 831.5 MHz

MODULATION QPSK (15 MHz, RB 75)

Battery Supply voltage	Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
Vmax	3.8	6.59	0,00793	0,0000007925436
Vmin	2.8	-7.22	-0,00868	-0,0000008683103

FDD Band 26, channel frequency 831.5 MHz

MODULATION 16QAM (15 MHz, RB 75)

Battery Supply voltage	Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
Vmax	3.8	7.15	0,00860	0,0000008598918
Vmin	2.8	-7.40	-0,00890	-0,0000008899579

FDD Band 41, channel frequency 2593 MHz

MODULATION QPSK (20MHz, RB=100)

Battery Supply voltage	Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
Vmax	3.8	-12.57	-0,00485	-0,0000003763980
Vmin	2.8	-9.76	-0,00376	-0,0000004847667

FDD Band 41, channel frequency 2593 MHz

MODULATION 16QAM (20MHz, RB=100)

Battery Supply voltage	Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
Vmax	3.8	-13.53	-0,00522	-0,0000005217894
Vmin	2.8	-10.76	-0,00415	-0,0000004149634

Annex C. Spot Check

C.1.1 Conducted RF output power

Band	BW [MHz]	Channel Number	Frequency [MHz]	Modulation	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 2	1.4	18607	1850.7	QPSK	1	0	22.3	27.7
						2	21.9	27.9
						5	22.3	27.8
		18900	1880.0			0	22.4	27.1
						2	21.9	28.0
						5	22.3	27.6
		19193	1909.3			0	22.2	26.1
						2	21.8	26.4
						5	22.1	26.1
	3	18615	1851.5			0	22.3	27.7
						7	22.4	27.8
						14	22.2	27.8
		18900	1880.0			0	22.2	27.5
						7	22.3	27.0
						14	22.2	27.6
		19185	1908.5			0	22.2	26.8
						7	22.3	26.8
						14	22.0	26.5
	5	18625	1852.5			0	22.0	27.6
						12	22.1	27.8
						24	21.9	27.8
		18900	1880.0			0	22.0	27.0
						12	22.1	27.2
						24	22.0	27.2
		19175	1907.5			0	22.0	26.8
						12	22.0	26.6
						24	21.9	26.1
	10	18650	1855.0			0	22.3	27.8
						24	22.2	28.0
						49	22.0	27.8
18900		1880.0	0	22.1	27.5			
			24	22.1	27.7			
			49	22.1	27.2			
19150		1905.0	0	22.3	27.0			
			24	22.2	26.7			
			49	21.9	26.3			

Min Values
Max Values

Band	BW [MHz]	Channel Number	Frequency [MHz]	Modulation	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 2	15	18675	1857.5	QPSK	1	0	22.0	27.3
						37	21.9	27.5
						74	21.8	26.9
		18900	1880.0			0	22.0	26.5
						37	21.9	26.9
						74	21.9	27.0
		19125	1902.5			0	22.0	26.4
						37	22.0	26.1
						74	21.6	25.6
LTE 2	20	18700	1860.0			0	21.7	27.2
						49	21.8	27.4
						99	21.3	26.5
		18900	1880.0			0	21.6	26.8
						49	21.9	27.2
						99	21.5	27.1
		19100	1900.0			0	21.8	26.8
						49	22.0	26.4
						99	21.3	25.5

Min Values
Max Values

Band	BW [MHz]	Channel Number	Frequency [MHz]	Modulation	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 4	1.4	19957	1710.7	QPSK	1	0	23.2	28.5
						2	22.8	28.6
						5	23.2	28.3
		20175	1732.5			0	23.2	28.3
						2	22.7	28.2
						5	23.2	28.2
		20393	1754.3			0	23.1	28.0
						2	22.6	28.0
						5	23.1	28.3
	3	19965	1711.5			0	23.1	28.6
						7	23.2	28.0
						14	23.1	28.7
		20175	1732.5			0	23.1	28.3
						7	23.1	28.3
						14	23.0	28.1
		20385	1753.5			0	22.9	28.0
						7	23.1	28.4
						14	22.9	27.9

Min Values
Max Values

Band	BW [MHz]	Channel Number	Frequency [MHz]	Modulation	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 4	5	19975	1712.5	QPSK	1	0	22.8	27.8
						12	22.9	27.9
						24	22.7	27.9
		20175	1732.5			0	22.8	28.2
						12	22.8	28.3
						24	22.7	28.1
		20375	1752.5			0	22.7	28.0
						12	22.7	28.1
						24	22.6	27.9
LTE 4	10	20000	1715.0	QPSK	1	0	23.0	28.1
						24	23.0	28.2
						49	22.8	28.2
		20175	1732.5			0	23.1	28.2
						24	22.9	28.3
						49	22.8	28.2
		20350	1750.0			0	23.0	28.4
						24	22.9	28.2
						49	22.7	28.0
	15	20025	1717.5			0	22.8	27.7
						37	22.9	27.9
						74	22.7	27.9
		20175	1732.5			0	22.9	28.0
						37	22.8	27.9
						74	22.6	27.8
		20325	1747.5			0	22.9	27.7
						37	22.7	27.6
						74	22.5	27.0
	20	20050	1720.0			0	22.6	27.5
						49	22.7	27.9
						99	22.3	27.7
		20175	1732.5			0	22.6	27.8
						49	22.7	28.0
						99	22.3	27.6
		20300	1745.0			0	22.6	27.6
						49	22.7	27.8
						99	22.2	27.0

Min Values
Max Values

Band	BW [MHz]	Channel Number	Frequency [MHz]	Modulation	#RB	RB position	Avg [dBm]	Peak [dBm]		
LTE 5	1.4	20407	824.7	QPSK	1	0	23.3	28.8		
						2	22.9	28.9		
						5	23.3	28.8		
		3	20525			836.5	0	23.1	27.6	
							2	22.7	27.7	
							5	23.0	27.6	
			5			20643	848.3	0	22.8	27.2
								2	22.4	27.1
								5	22.8	26.6
	10					20415	825.5	0	23.3	28.8
								7	23.3	28.6
								14	23.2	23.2
		5				20525	836.5	0	23.0	27.5
								7	23.1	27.8
								14	23.0	27.8
			10			20635	847.5	0	22.8	27.5
								7	22.9	27.7
								14	22.7	27.3
	5					20425	826.5	0	22.9	28.4
								12	23.0	28.2
								24	22.8	28.0
		10				20525	836.5	0	22.7	27.4
								12	22.8	27.6
								24	22.7	27.7
			10			20625	846.5	0	22.6	27.8
								12	22.7	27.1
								24	22.4	26.4
	10					20450	829.0	0	23.2	28.6
								24	23.1	28.4
								49	23.0	27.3
10		20525		836.5	0	23.0	27.8			
					24	22.9	27.7			
					49	22.9	28.2			
		20600	844.0	0	23.0	27.7				
				24	22.8	28.0				
				49	22.6	26.4				

Min Values
Max Values

Band	BW [MHz]	Channel Number	Frequency [MHz]	Modulation	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 17	5	23755	706.5	QPSK	1	0	22.5	28.2
						12	22.6	28.7
						24	22.5	28.8
		23790	710.0			0	22.6	29.0
						12	22.6	28.8
						24	22.4	28.4
		23825	713.5			0	22.4	27.9
						12	22.5	28.1
						24	22.4	27.9
	10	23780	709.0			0	22.8	28.5
						24	22.7	29.1
						49	22.6	27.7
		23790	710.0			0	22.6	27.8
						24	22.7	28.7
						49	22.5	27.8
		23800	711.0			0	22.8	29.0
						24	22.7	28.7
						49	22.5	27.9

Min Values

Max Values

C.1.2 Occupied bandwidth

Band	BW [MHz]	Modulation	Channel	Channel Number	Frequency [MHz]	#RB	RB position	OBW [MHz]	EBW [MHz]
LTE 2	1.4	QPSK	Low	18607	1850.7	6	0	1.098	1.320
			High	19193	1909.3		0	1.103	1.314
	3		Low	18615	1851.5	15	0	2.730	3.075
			High	19185	1908.5		0	2.730	3.065
	5		Low	18625	1852.5	25	0	4.509	5.177
			High	19175	1907.5		0	4.510	5.140
	10		Low	18650	1855.0	50	0	8.997	10.098
			High	19150	1905.0		0	8.995	10.326
	15		Low	18675	1857.5	75	0	13.492	15.708
			High	19125	1902.5		0	13.455	15.296
20	Low	18700	1860.0	100	0	17.862	20.038		
	High	19100	1900.0		0	17.858	20.326		

Band	BW [MHz]	Modulation	Channel	Channel Number	Frequency [MHz]	#RB	RB position	OBW [MHz]	EBW [MHz]
LTE 4	1.4	QPSK	Low	19957	1710.7	6	0	1.094	1.324
			High	20393	1754.3		0	1.102	1.331
	3		Low	19965	1711.5	15	0	2.737	3.078
			High	20385	1753.5		0	2.737	3.076
	5		Low	19975	1712.5	25	0	4.510	5.197
			High	20375	1752.5		0	4.503	5.141
	10		Low	20000	1715.0	50	0	9.003	10.307
			High	20350	1750.0		0	8.996	10.356
	15		Low	20025	1717.5	75	0	13.521	15.271
			High	20325	1747.5		0	13.474	15.248
20	Low	20050	1720.0	100	0	17.821	19.848		
	High	20300	1745.0		0	17.869	20.201		

Band	BW [MHz]	Modulation	Channel	Channel Number	Frequency [MHz]	#RB	RB position	OBW [MHz]	EBW [MHz]
LTE 5	1.4	QPSK	Low	20407	824.7	6	0	1.099	1.330
			High	20643	848.3		0	1.101	1.324
	3		Low	20415	825.5	15	0	2.730	3.083
			High	20635	847.5		0	2.725	3.057
	5		Low	20425	826.5	25	0	4.498	5.141
			High	20625	846.5		0	4.494	5.137
10	Low	20450	829.0	50	0	8.968	10.184		
	High	20600	844.0		0	8.943	10.122		

Band	BW [MHz]	Modulation	Channel	Channel Number	Frequency [MHz]	#RB	RB position	OBW [MHz]	EBW [MHz]
LTE 17	5	QPSK	Low	23755	706.5	25	0	4.489	5.149
			High	23825	713.5		0	4.500	5.112
	10		Low	23780	709.0	50	0	9.019	10.117
			High	23800	711.0		0	8.981	10.075

Max Values

C.1.3 Peak to average ratio

GSM

Band	Mode	Modulation	Channel Number	Frequency [MHz]	#UL Slots	Result [dB]
GSM850	GPRS	GMSK	190	836.6	1	0.25
GSM1900			661	1880.0	1	0.17

WCDMA

Band	Mode	Channel Number	Frequency [MHz]	Result [dB]
WCDMA II	RMC	9400	1880.0	3.32
WCDMA V		4183	836.6	3.21
WCDMA IV		1413	1732.6	3.52

LTE

Band	Mode	Modulation	Bandwidth [MHz]	Channel Number	Frequency [MHz]	#RB	RB position	Result [dB]
LTE 2	FDD	QPSK	1.4	18900	1880.0	1	0	4.76
							2	6.10
							5	5.29
			3				0	5.28
							7	4.66
							14	5.46
			5				0	5.03
							12	5.06
							24	5.17
			10				0	5.38
							24	5.59
							49	5.17
			15				0	4.51
							37	5.03
							74	5.13
			20				0	5.20
49	5.24							
99	5.61							

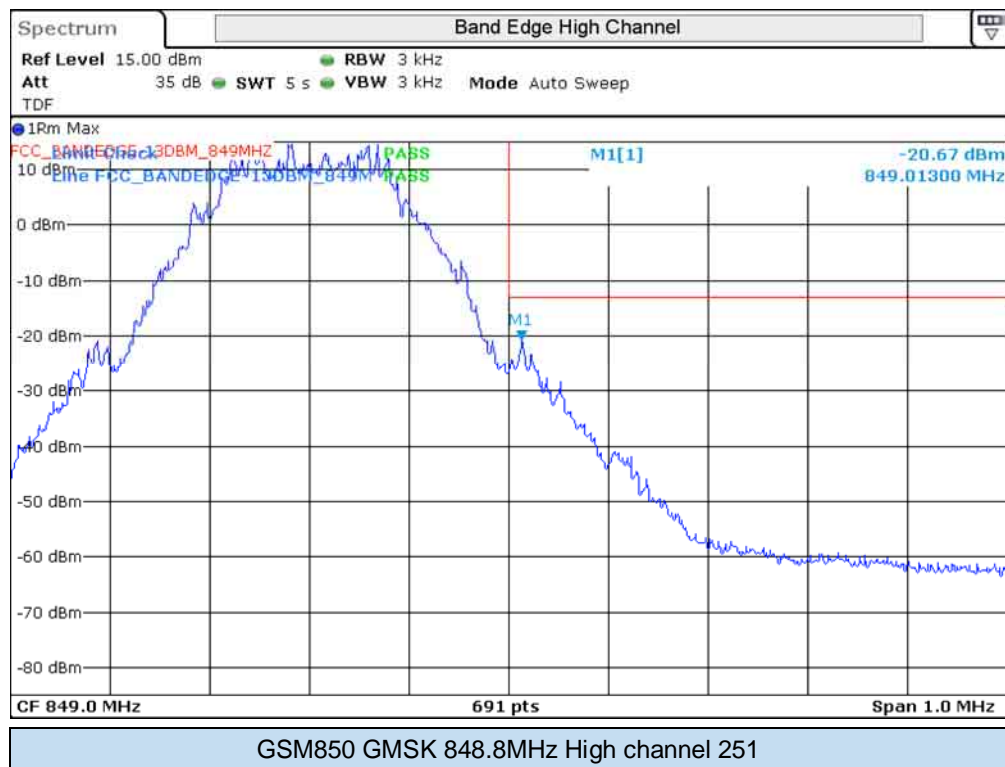
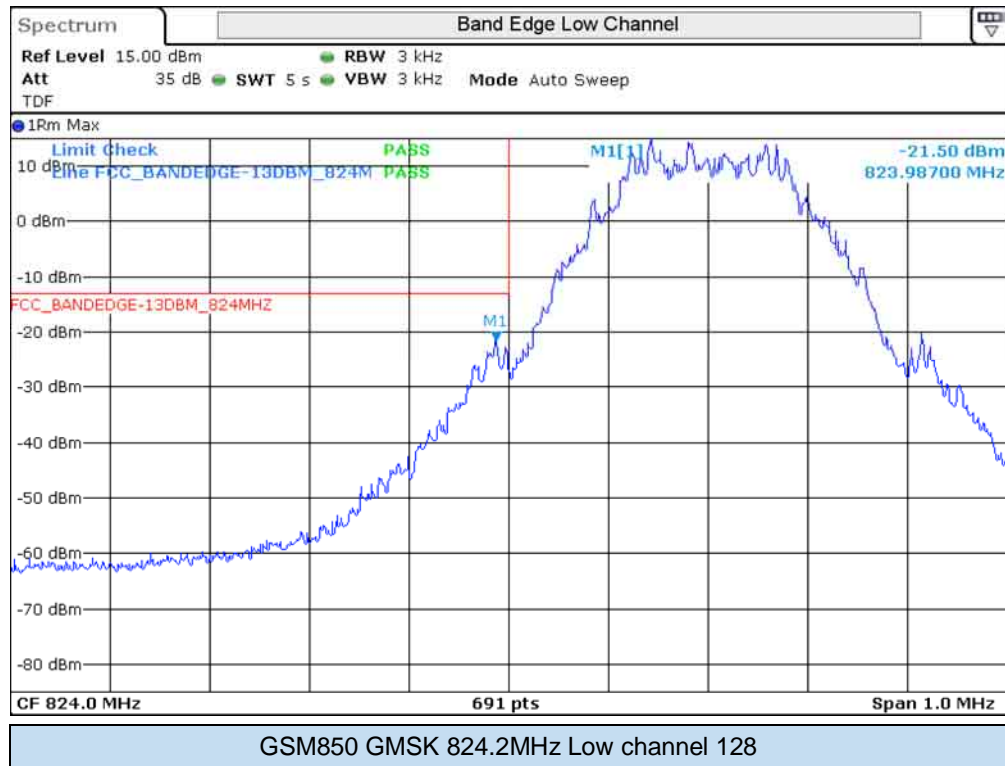
Band	Mode	Modulation	Bandwidth [MHz]	Channel Number	Frequency [MHz]	#RB	RB position	Result [dB]
LTE 4	FDD	QPSK	1.4	20175	1732.5	1	0	5.13
							2	5.46
							5	5.06
			3				0	5.22
							7	5.14
							14	5.16
			5				0	5.35
							12	5.49
			10				24	5.40
							0	5.18
			15				24	5.41
							49	5.35
			20				0	5.07
							37	5.10
74	5.17							
			0	5.22				
			49	5.29				
			99	5.39				

Band	Mode	Modulation	Bandwidth [MHz]	Channel Number	Frequency [MHz]	#RB	RB position	Result [dB]		
LTE 5	FDD	QPSK	1.4	20525	836.5	1	0	4.55		
							2	5.07		
							5	4.58		
			3				0	4.52		
							7	4.68		
			5				14	4.87		
							0	4.66		
			10				12	4.79		
							24	4.96		
							0	4.78		
									24	4.71
									49	5.33

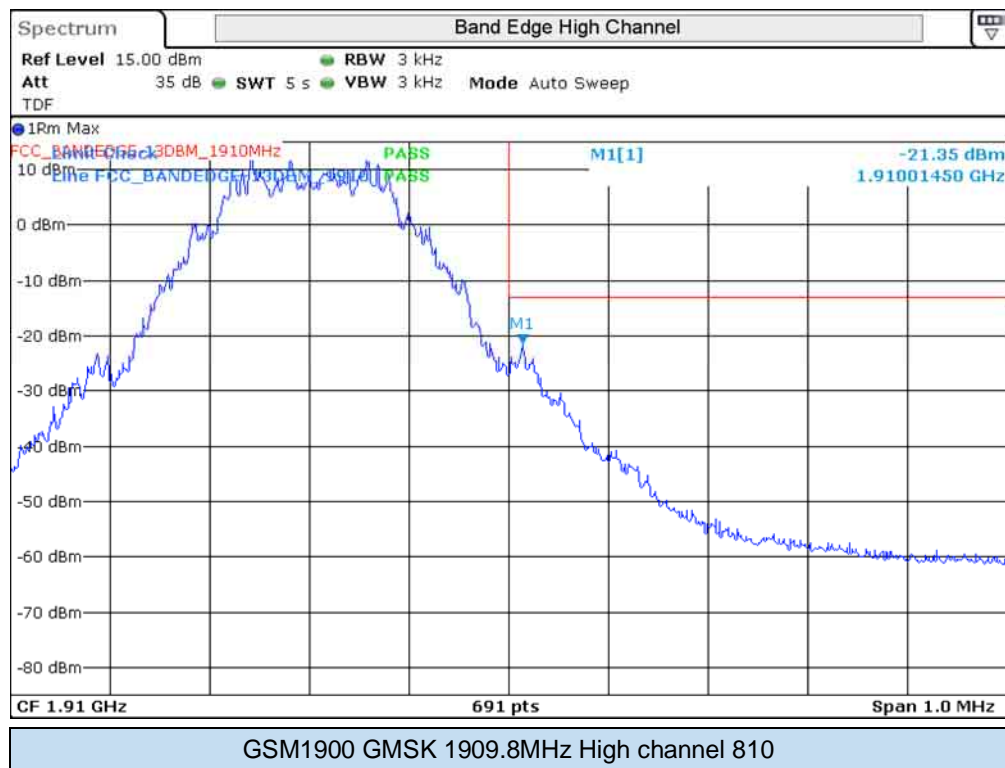
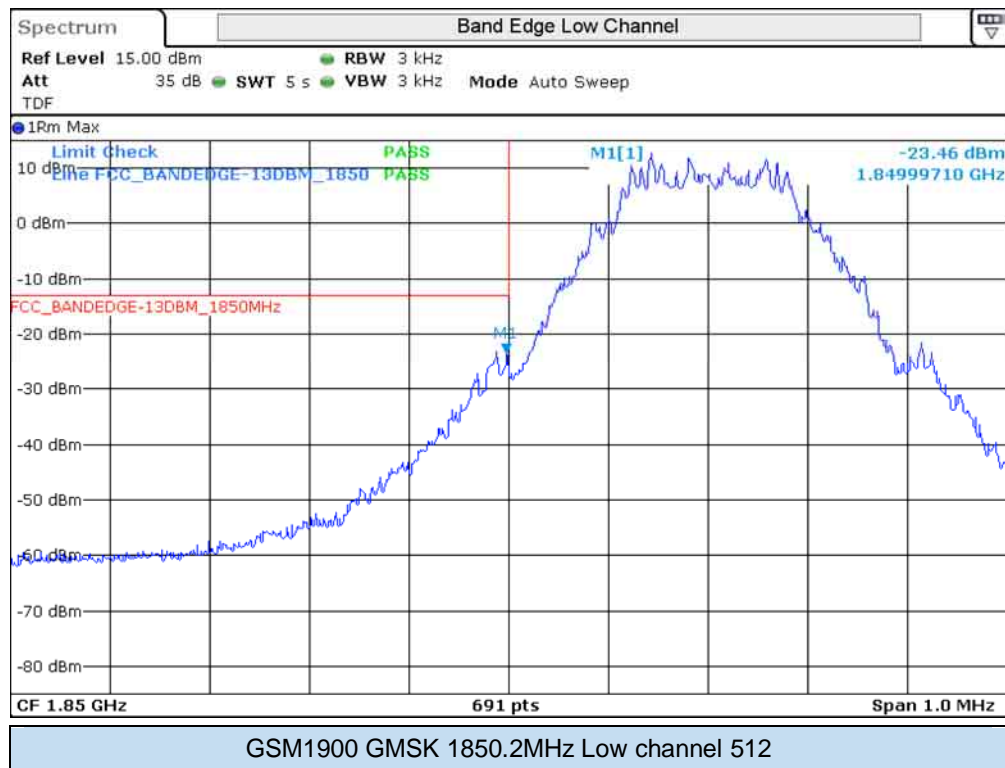
Band	Mode	Modulation	Bandwidth [MHz]	Channel Number	Frequency [MHz]	#RB	RB position	Result [dB]
LTE 17	FDD	QPSK	5	23790	710.0	1	0	6.39
							12	6.21
							24	5.93
			10				0	5.18
							24	6.01
							49	5.26

C.1.4 Conducted band-edge and spurious emission

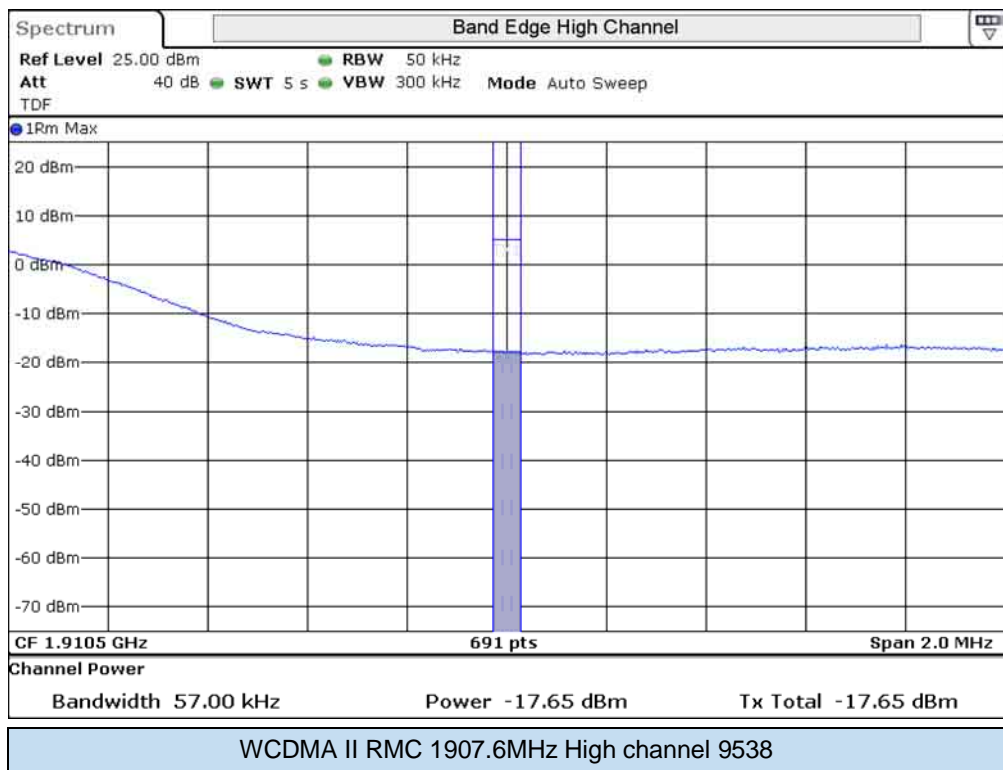
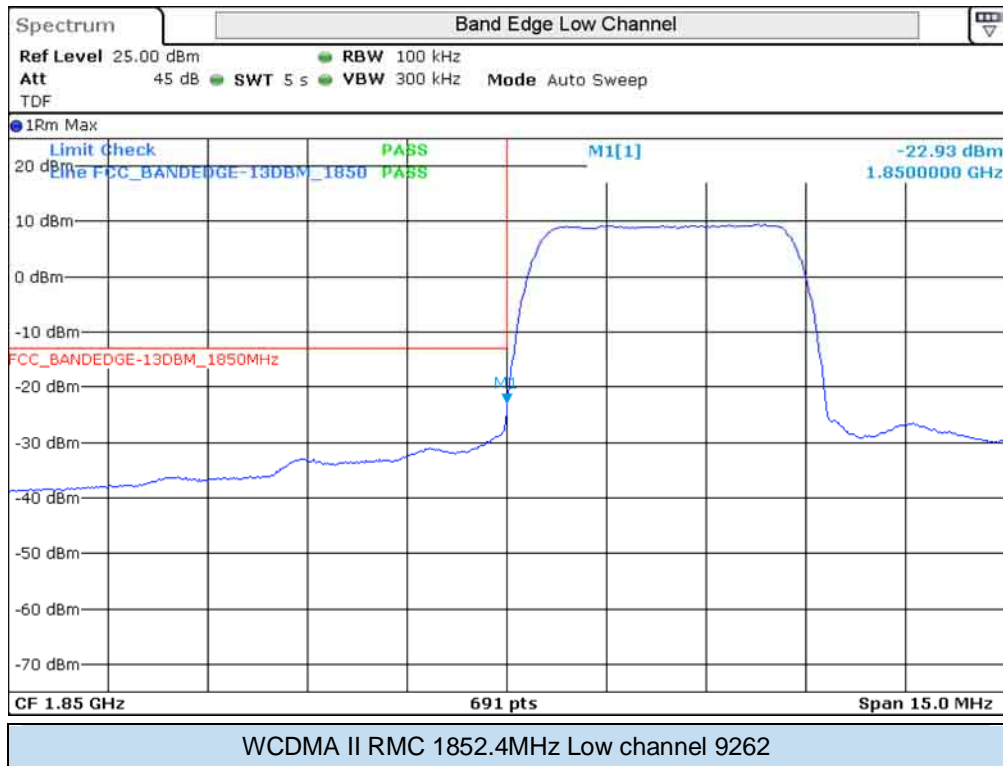
GSM850



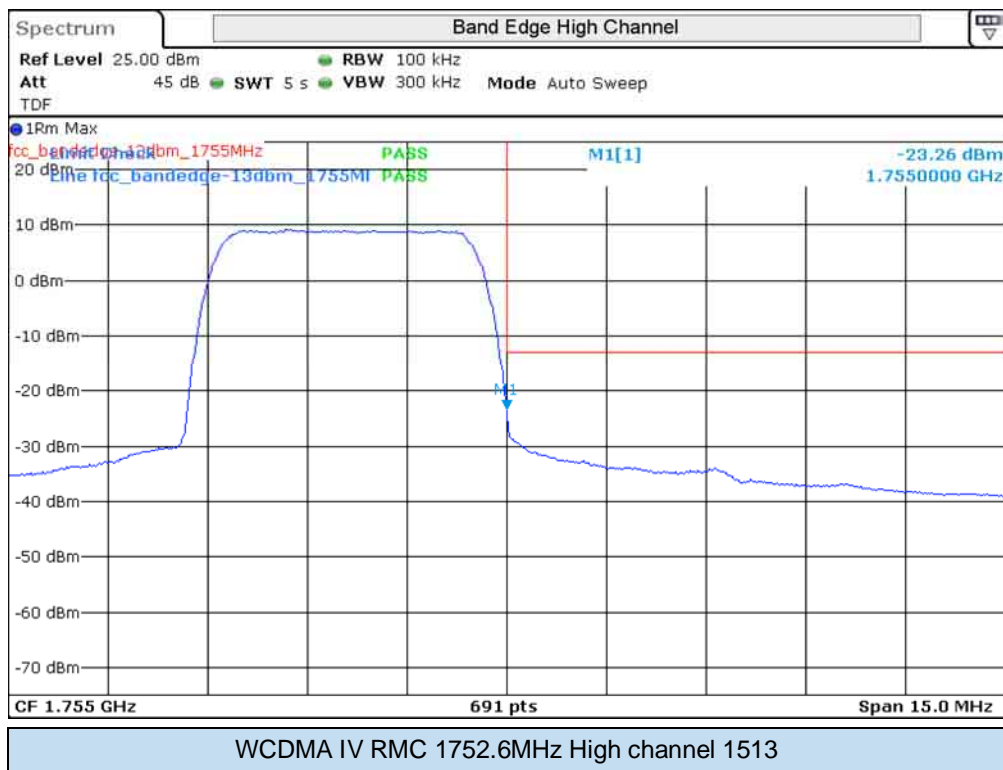
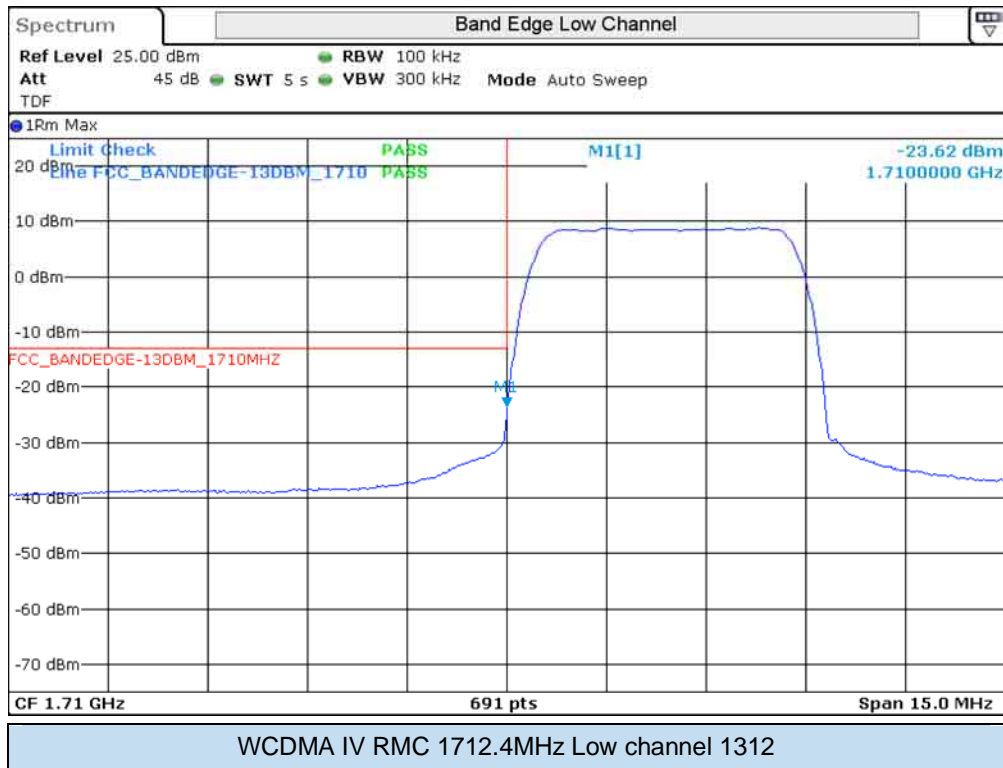
GSM1900



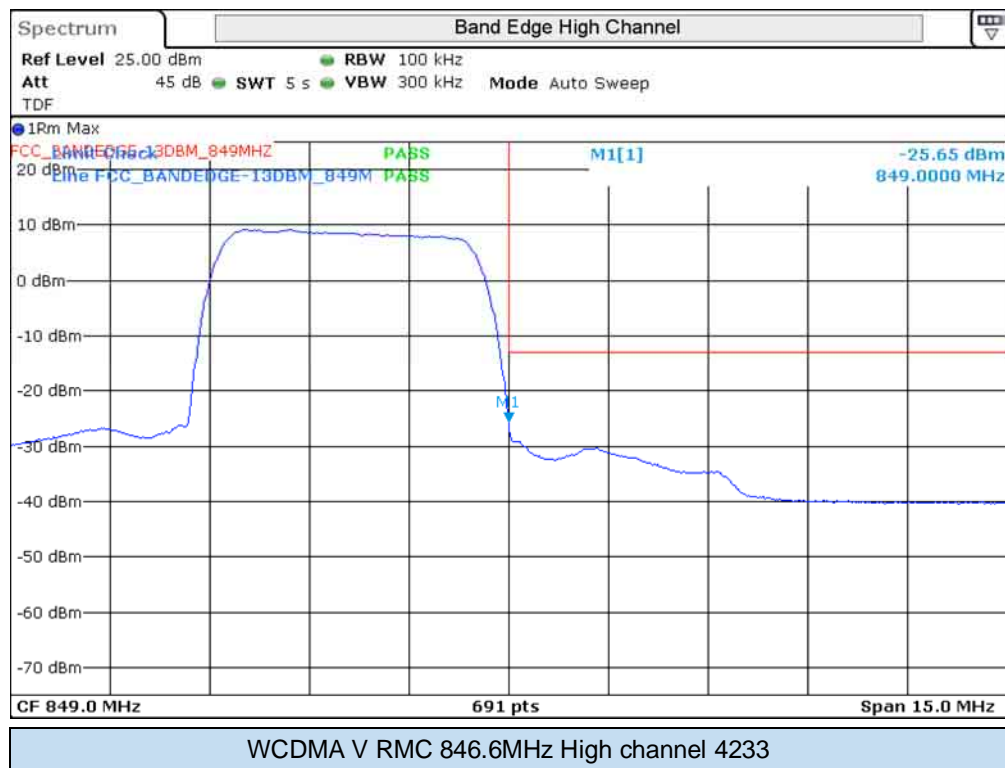
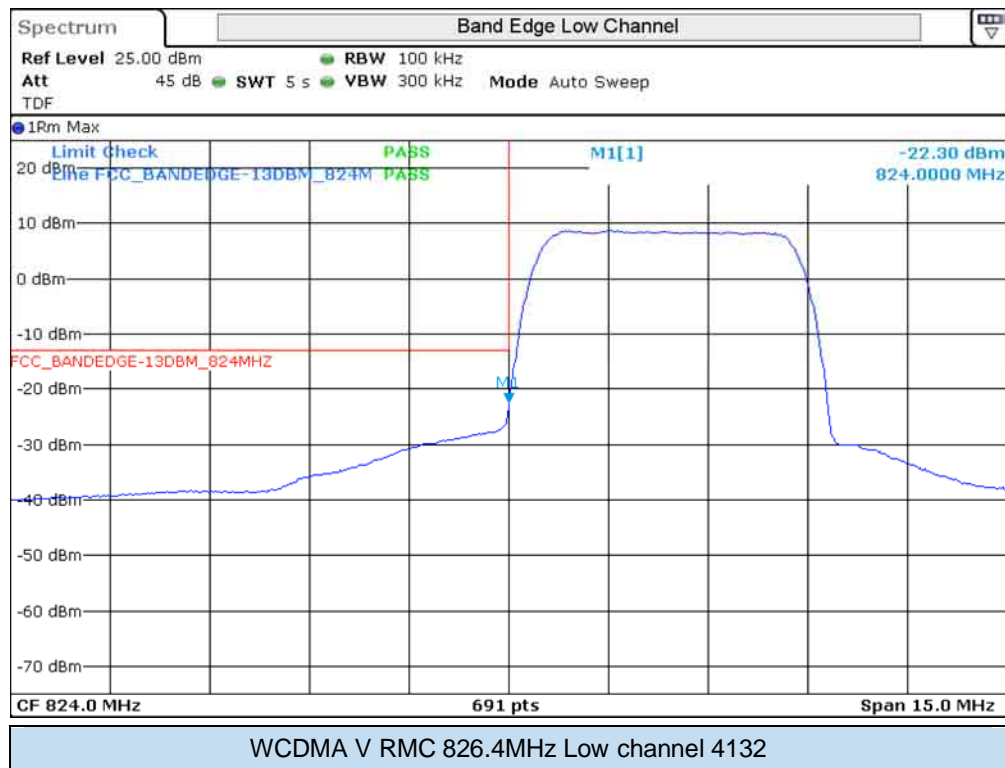
WCDMA II



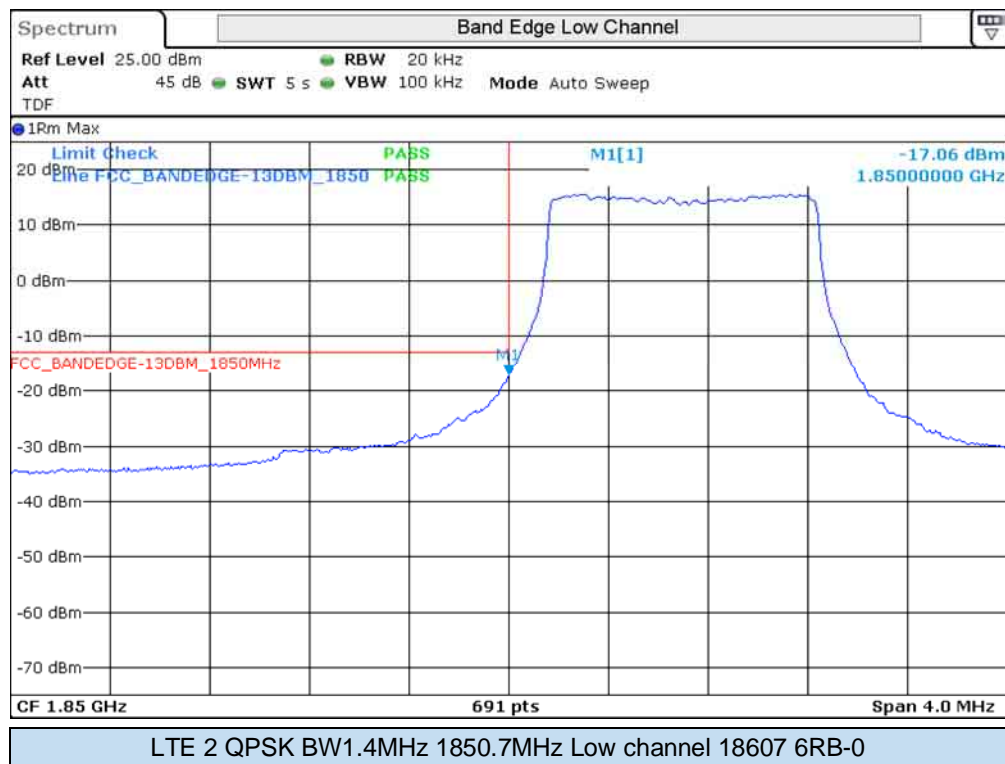
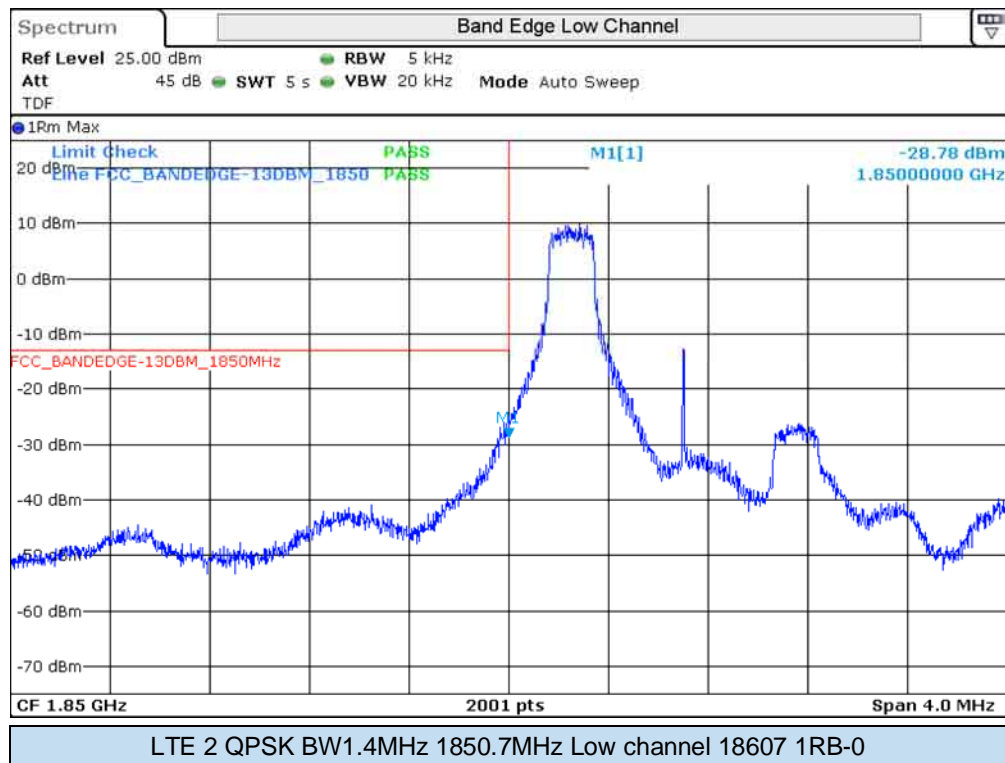
WCDMA IV

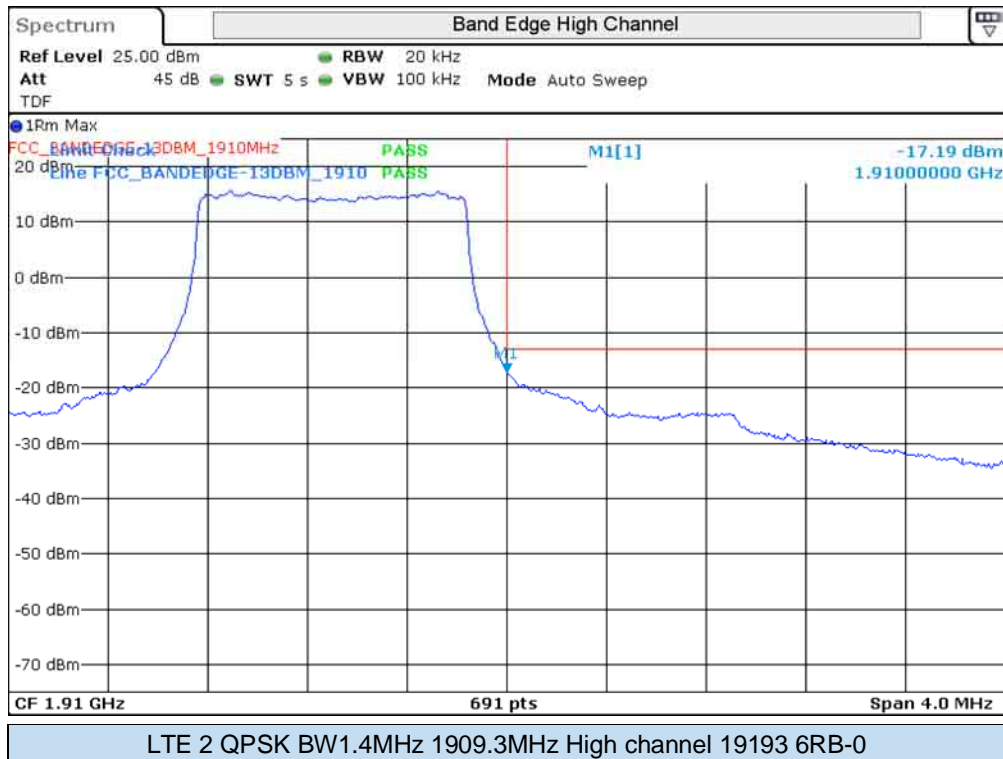
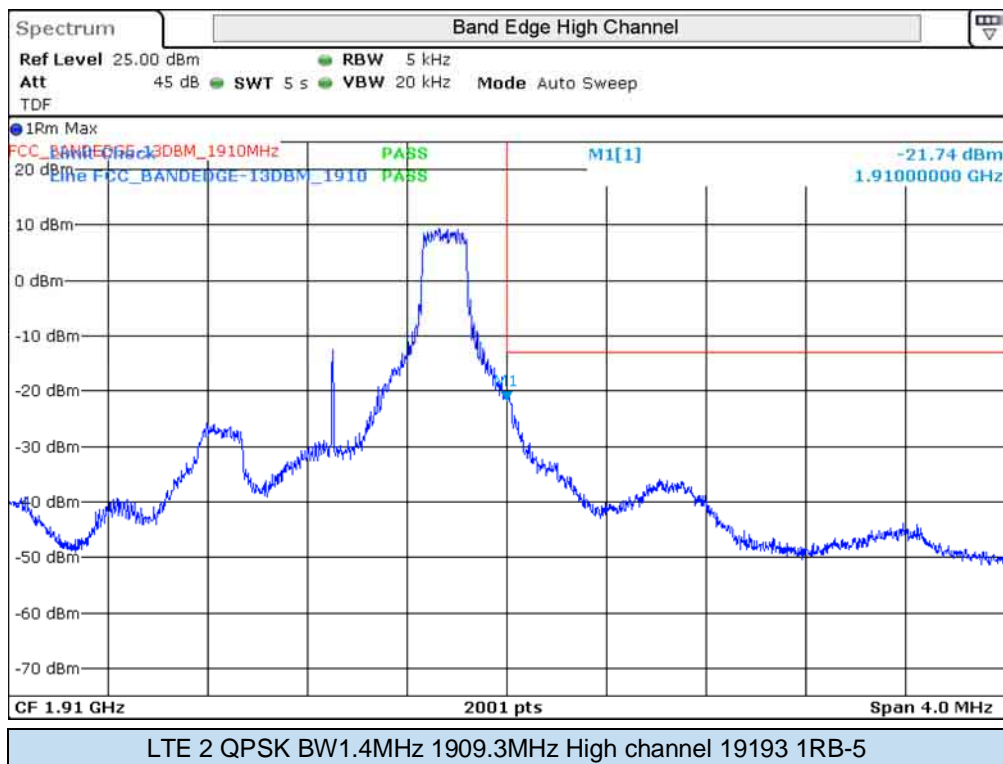


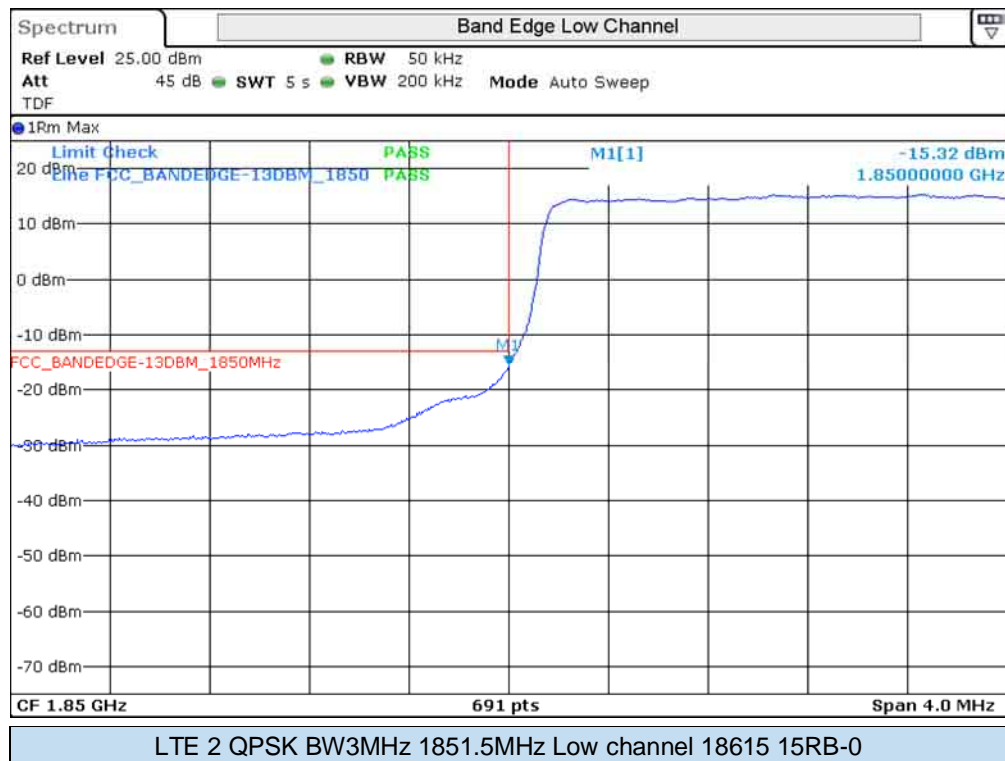
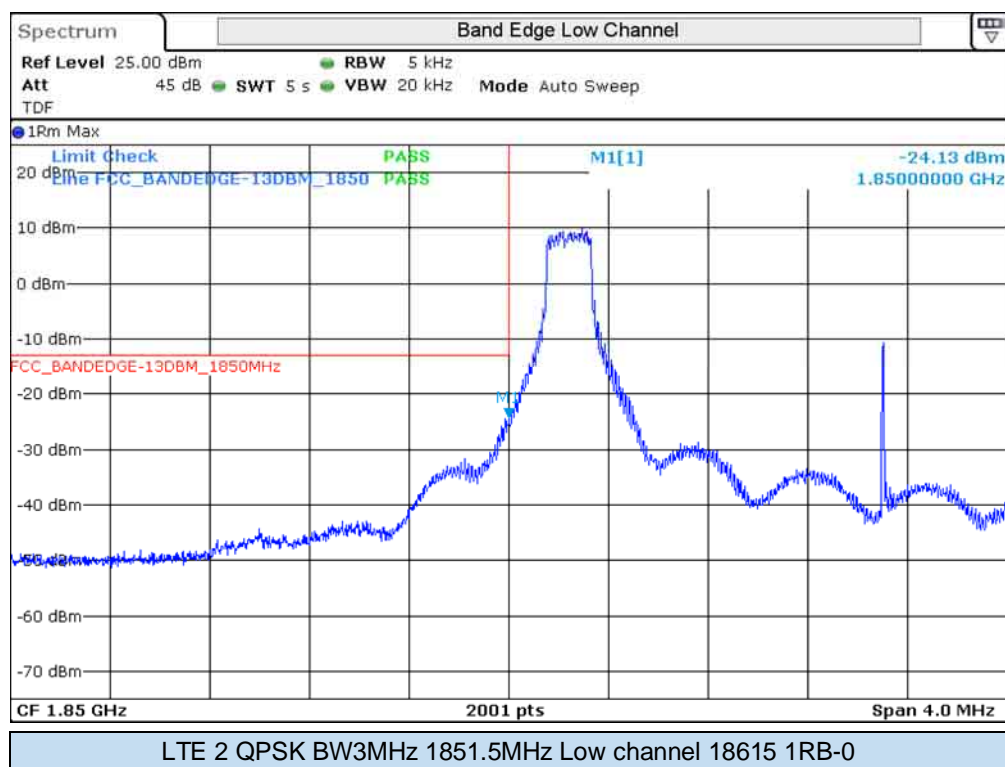
WCDMAV

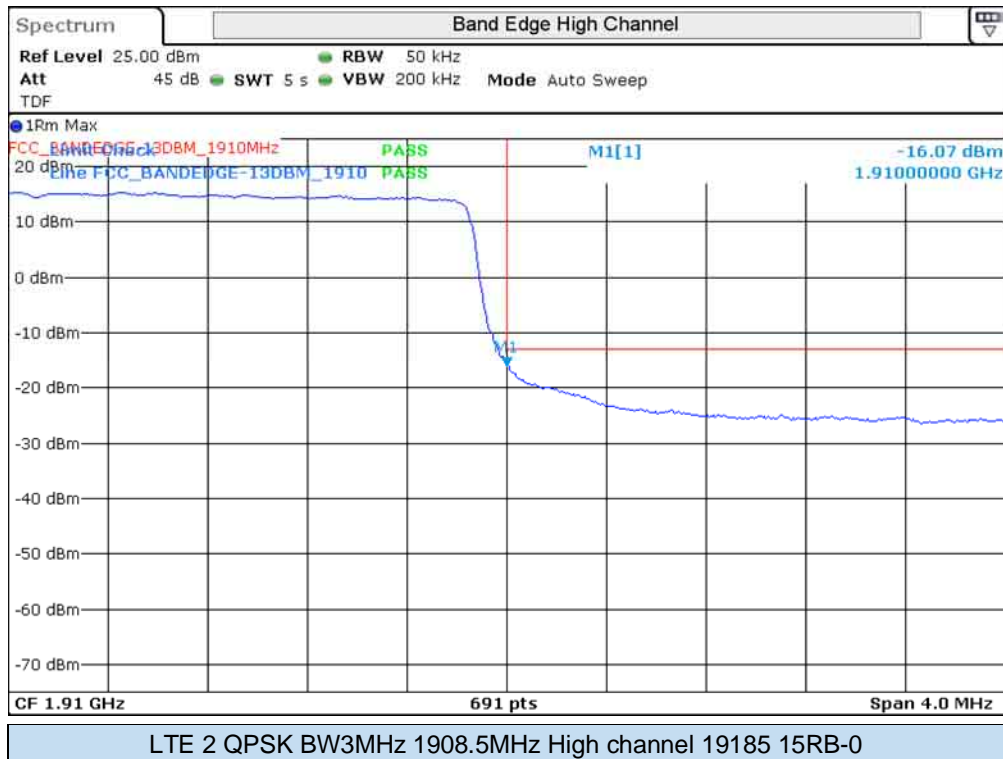
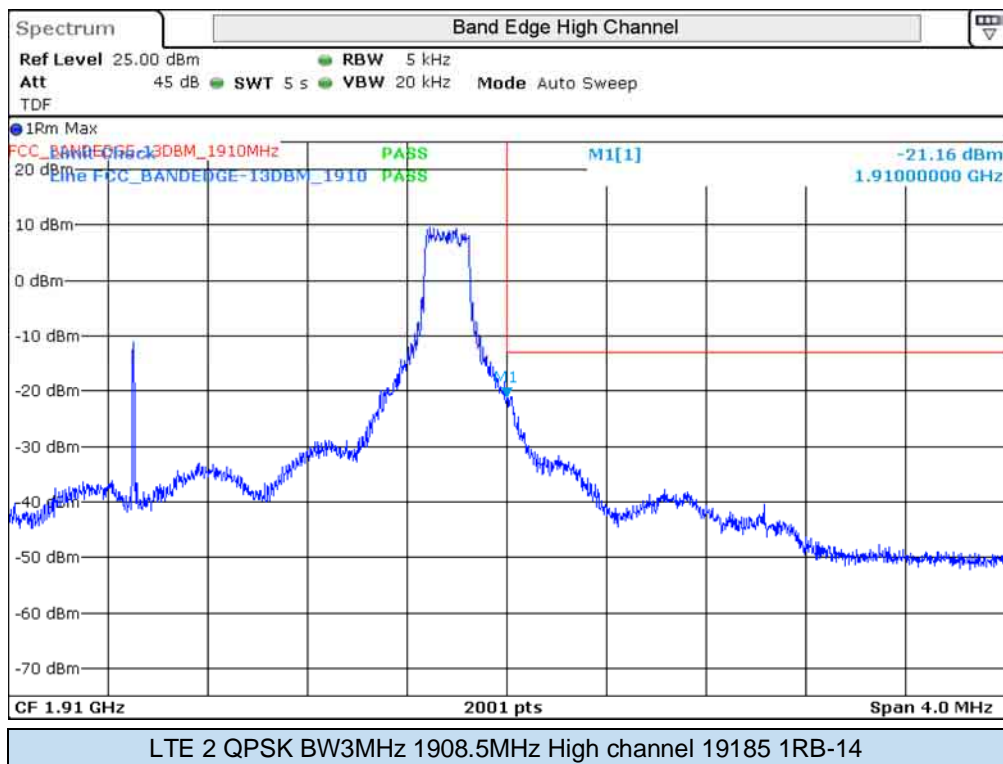


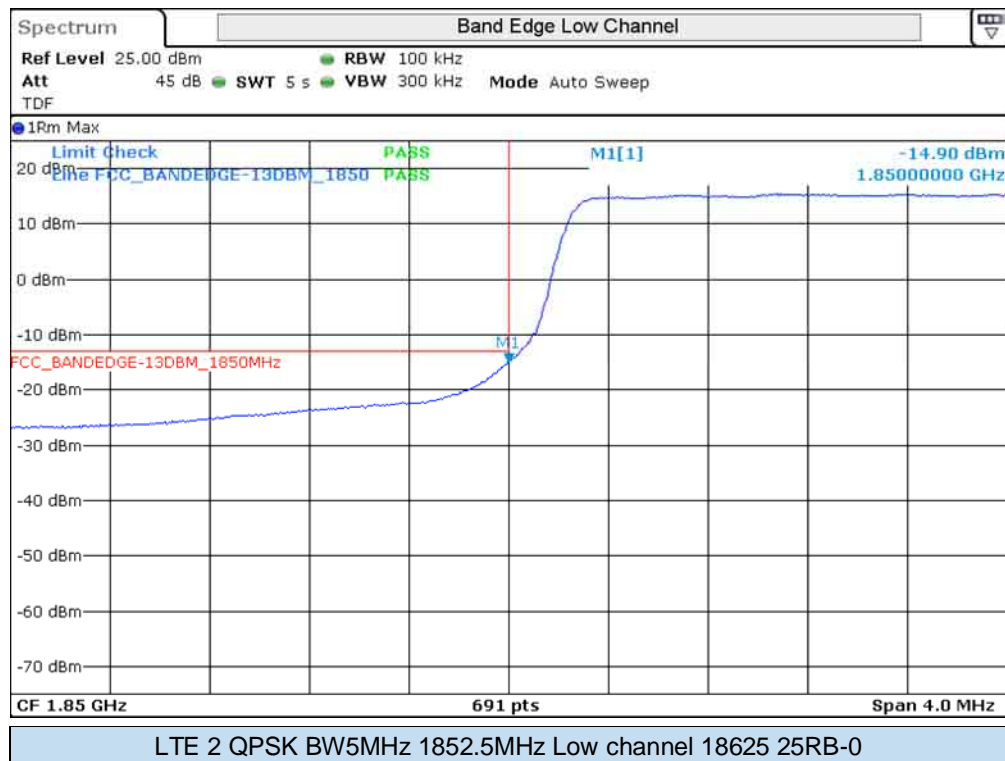
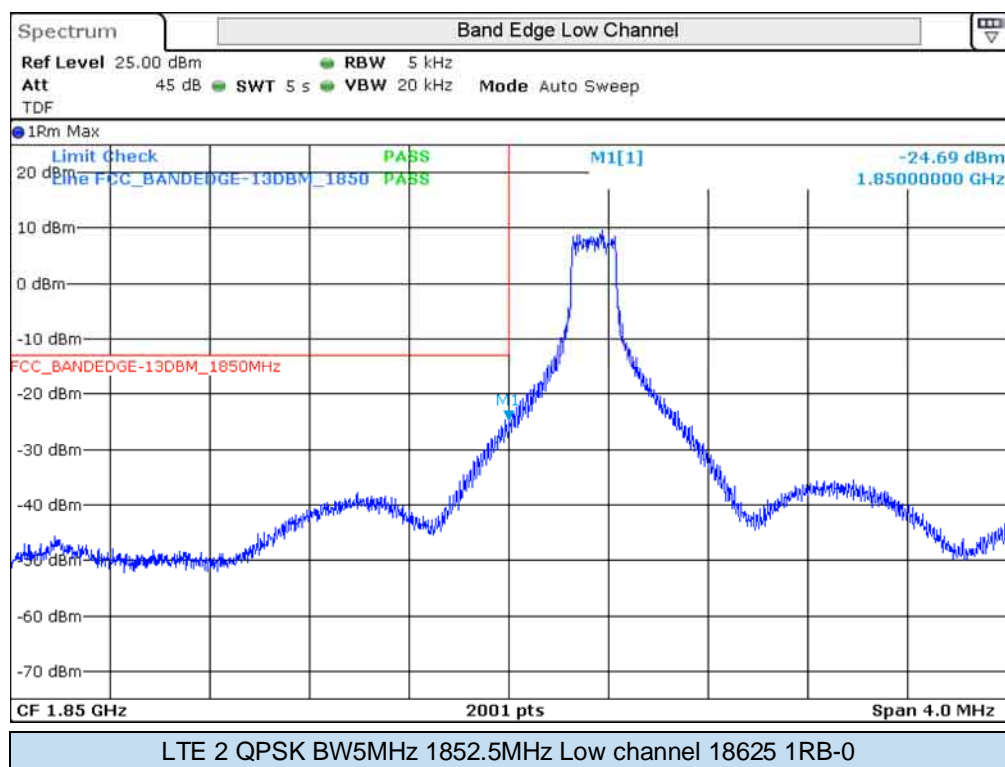
LTE2

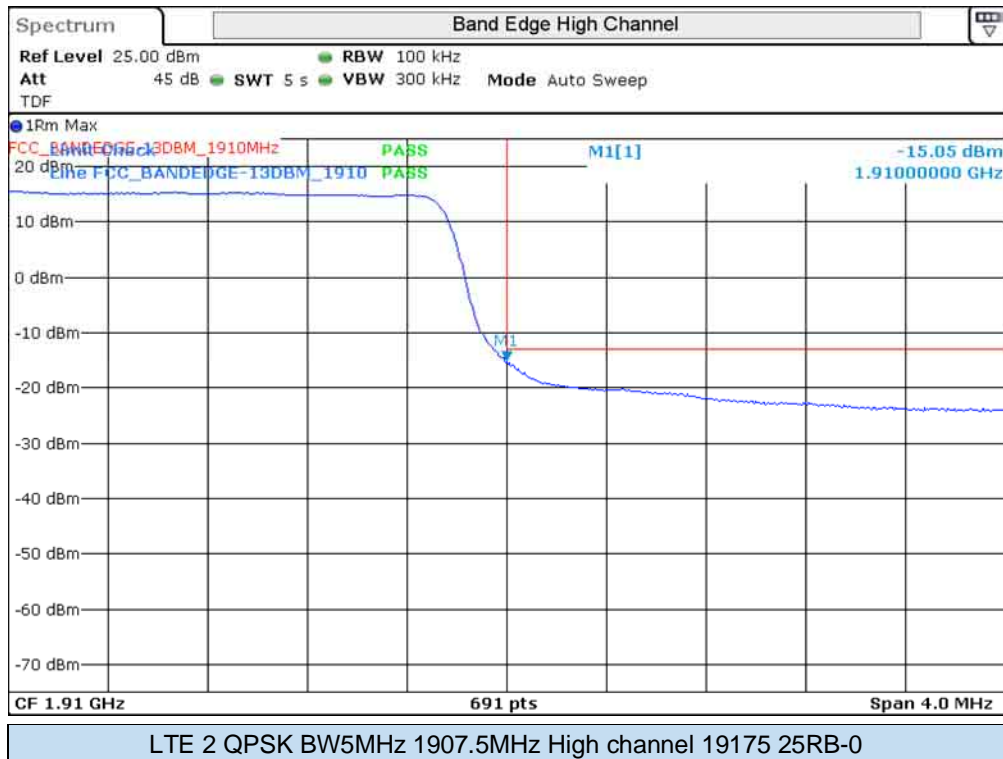
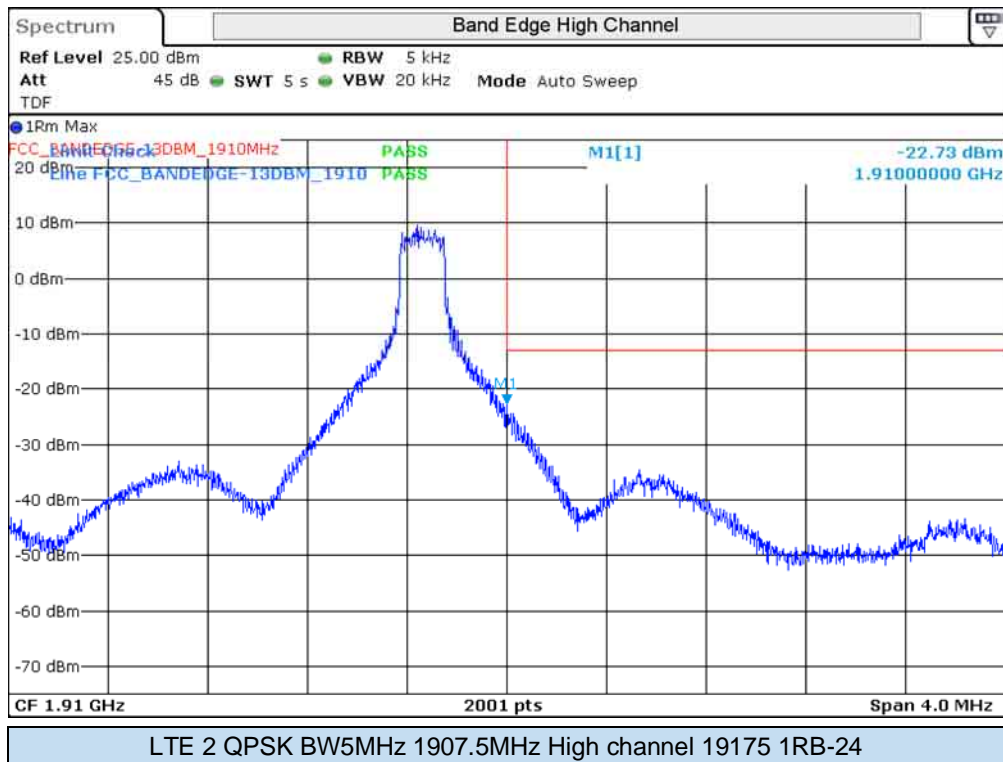


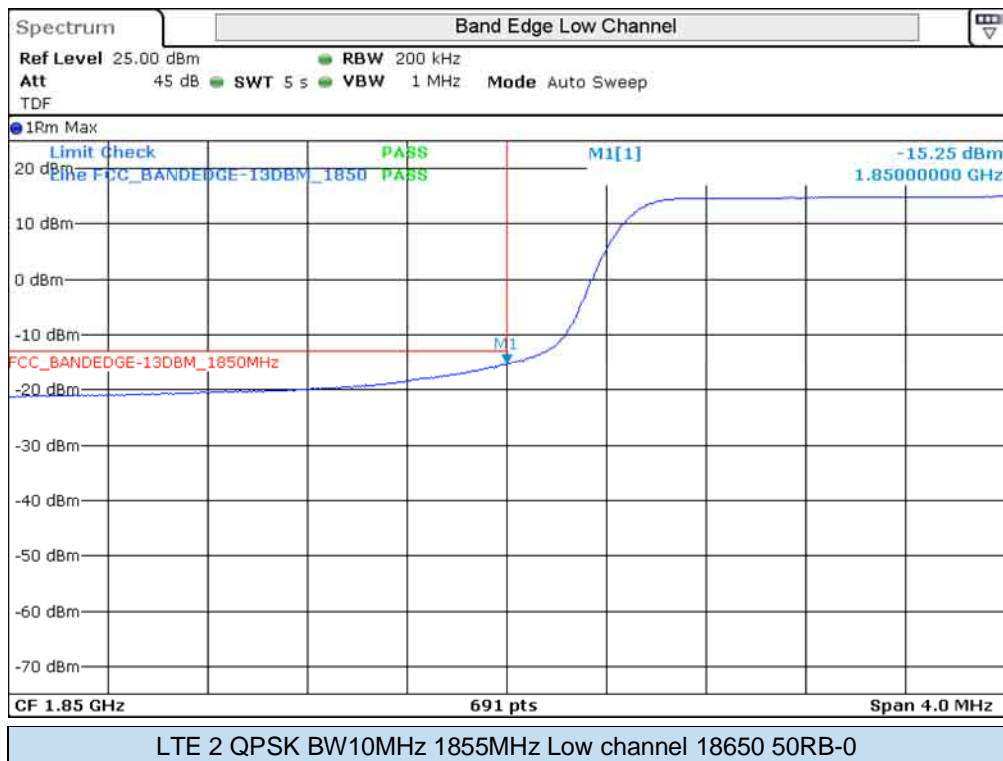
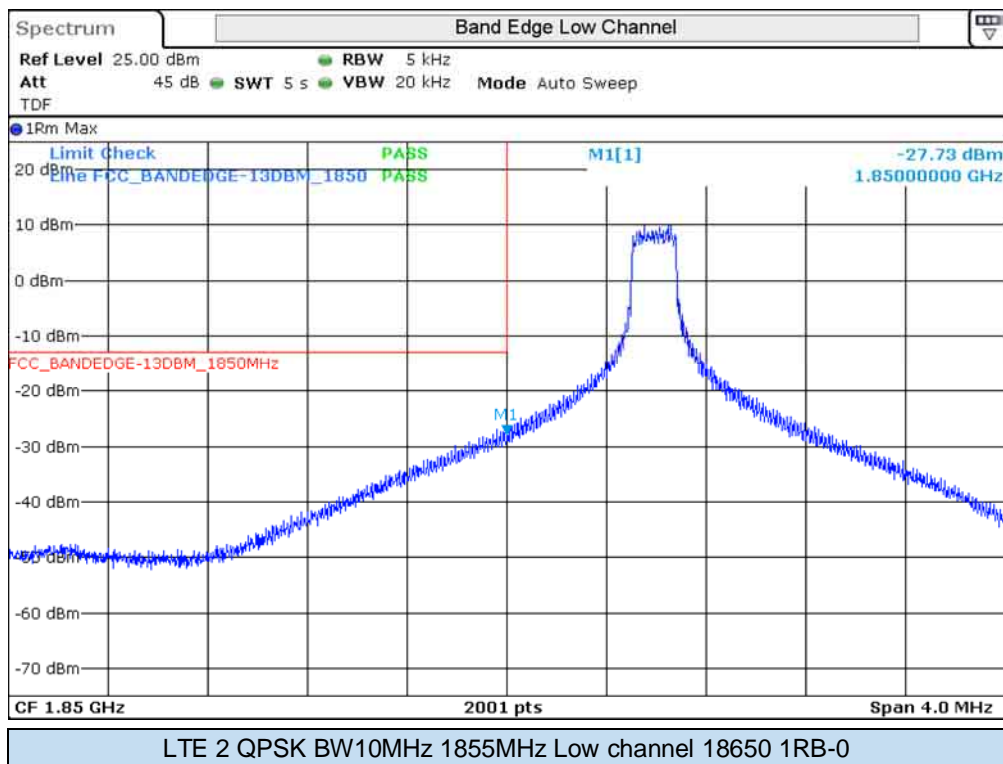


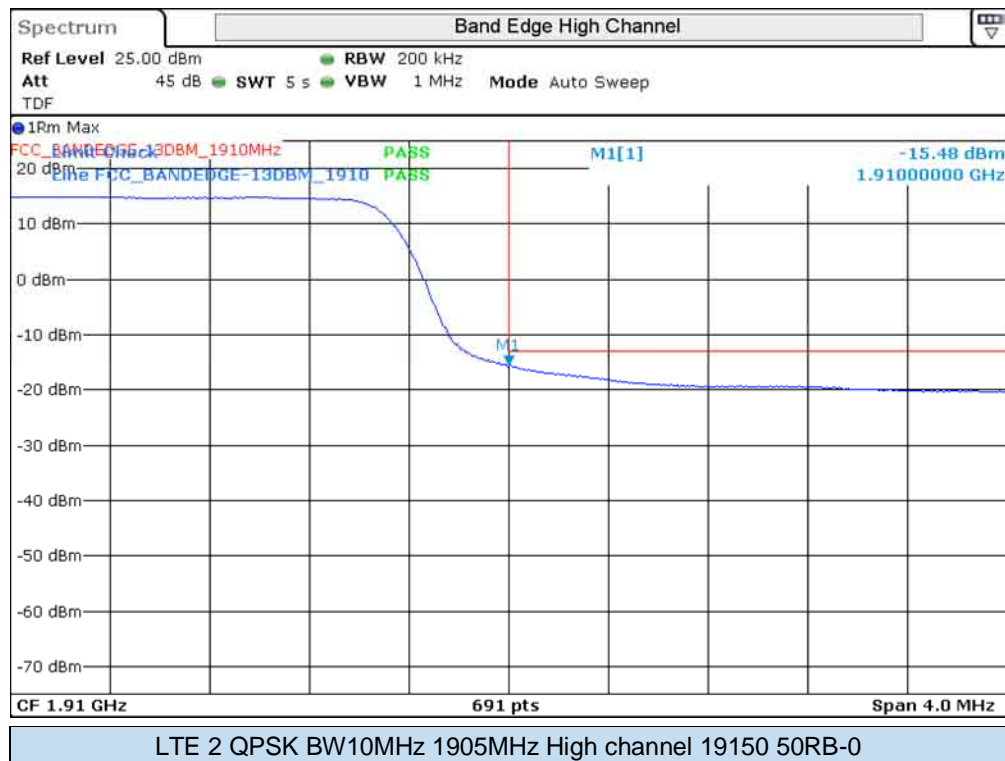
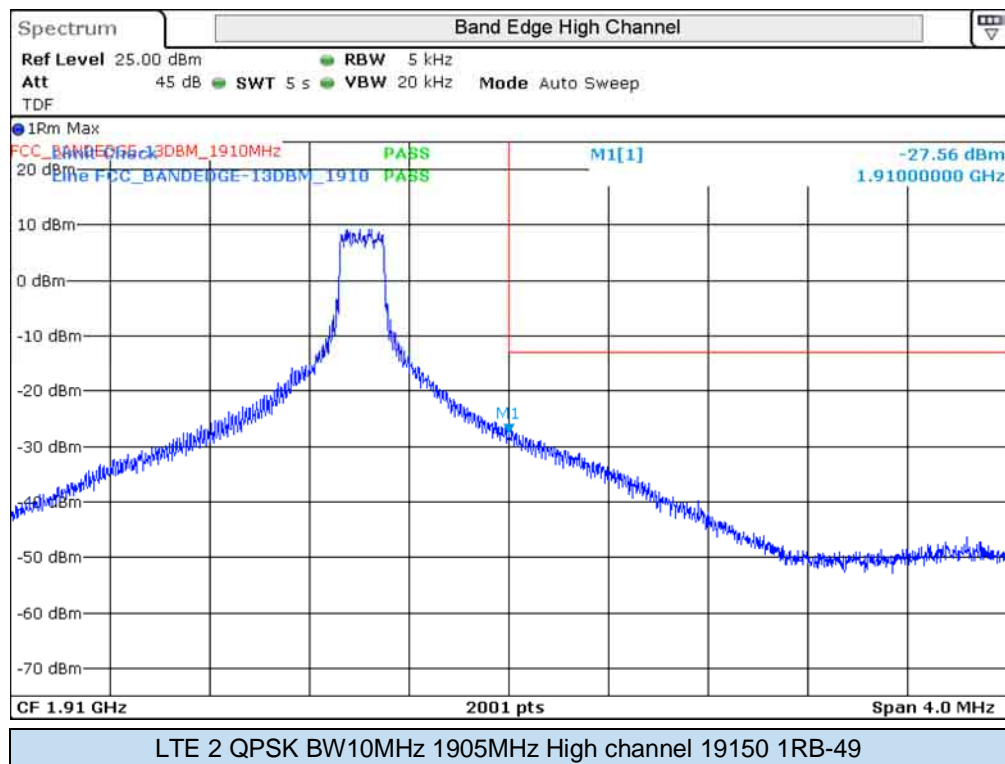


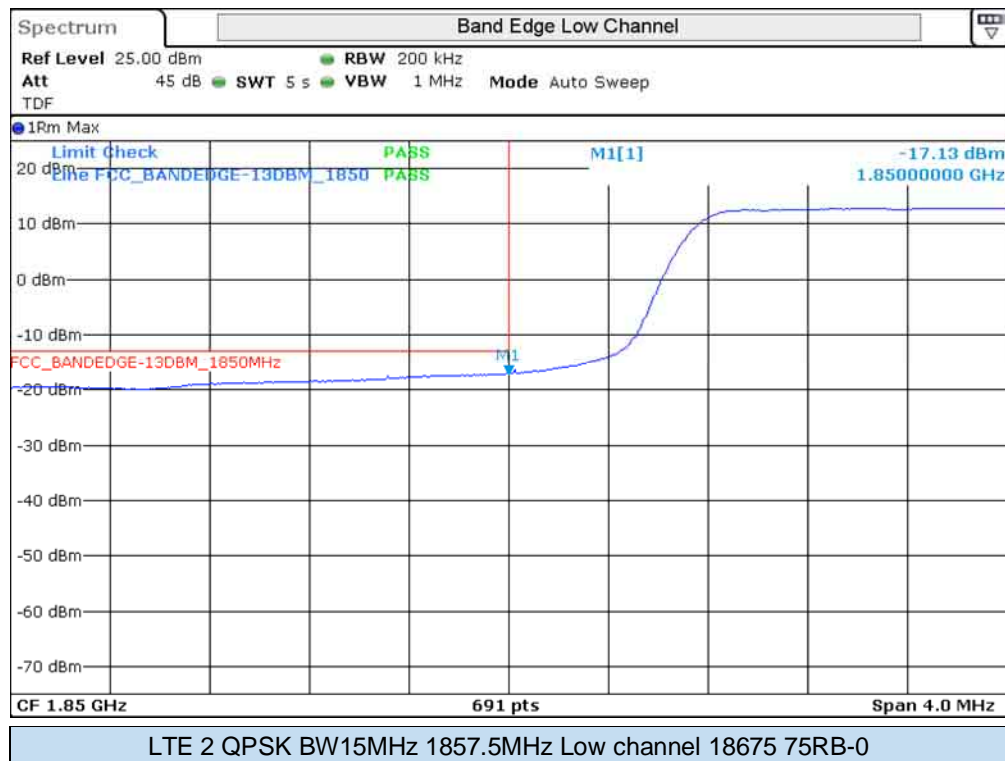
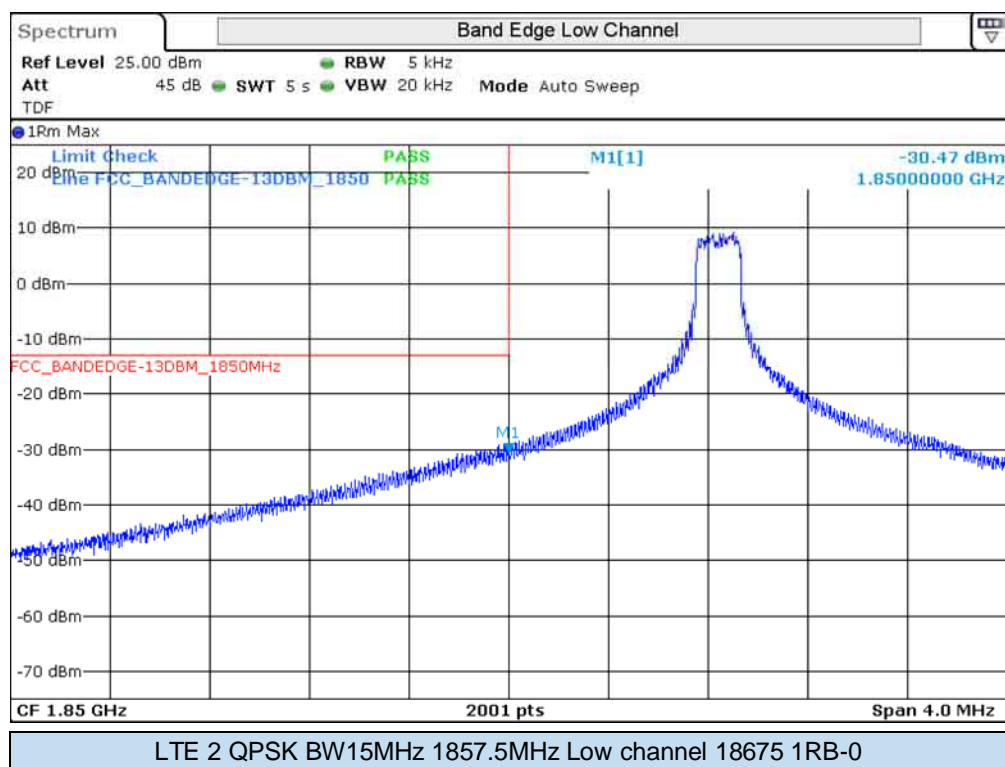


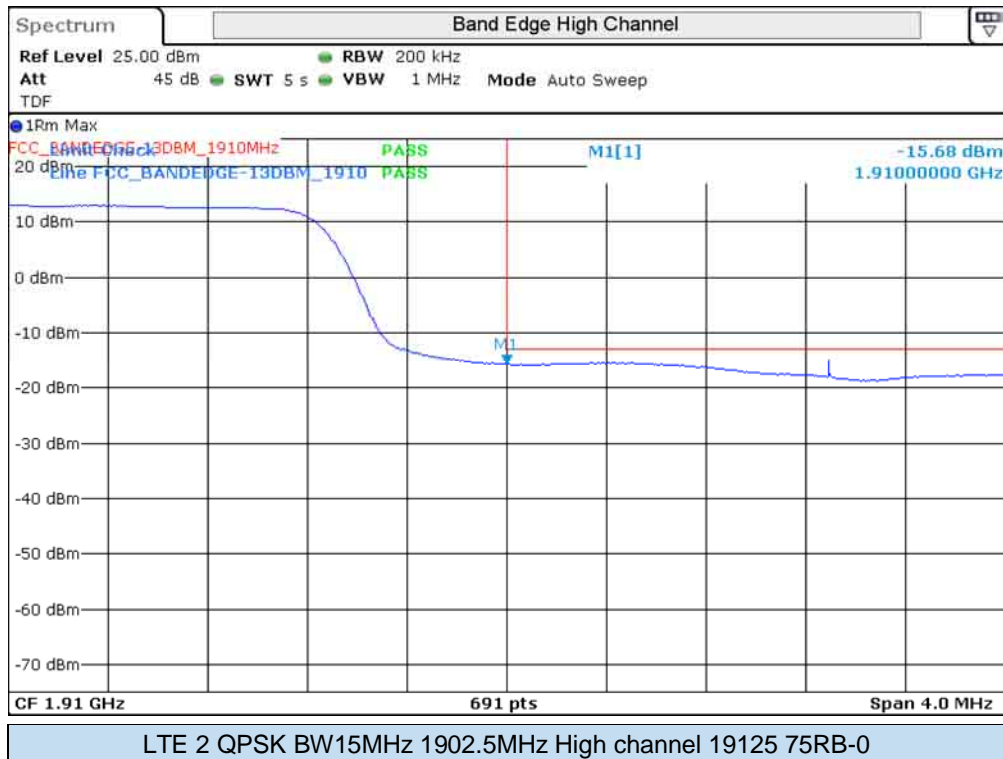
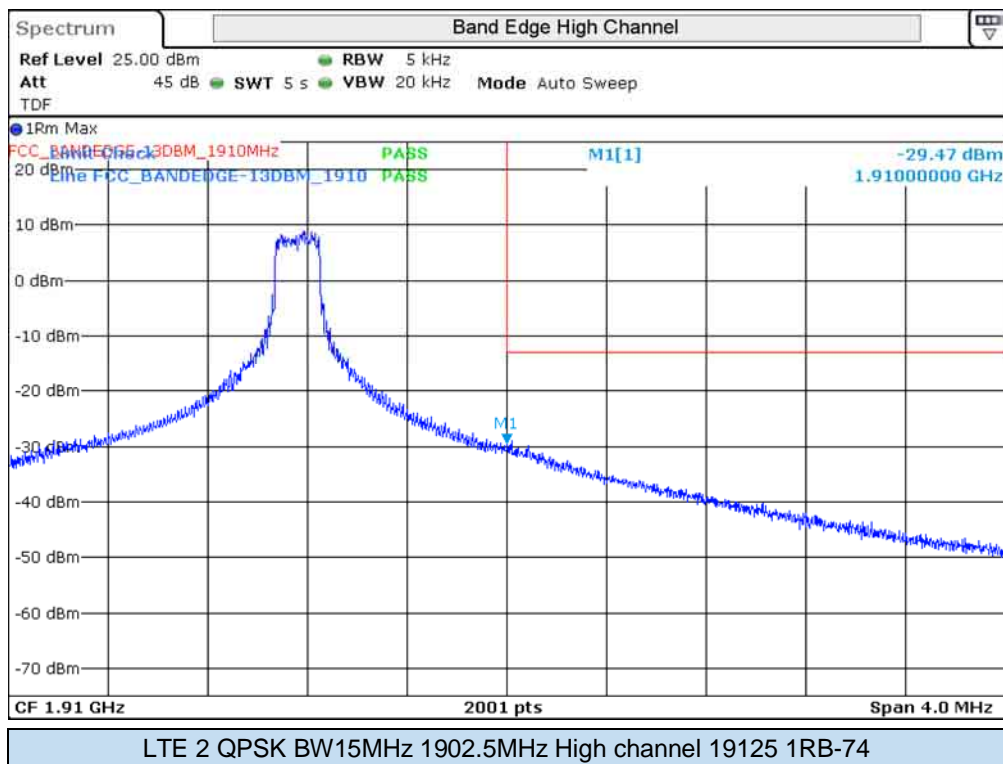


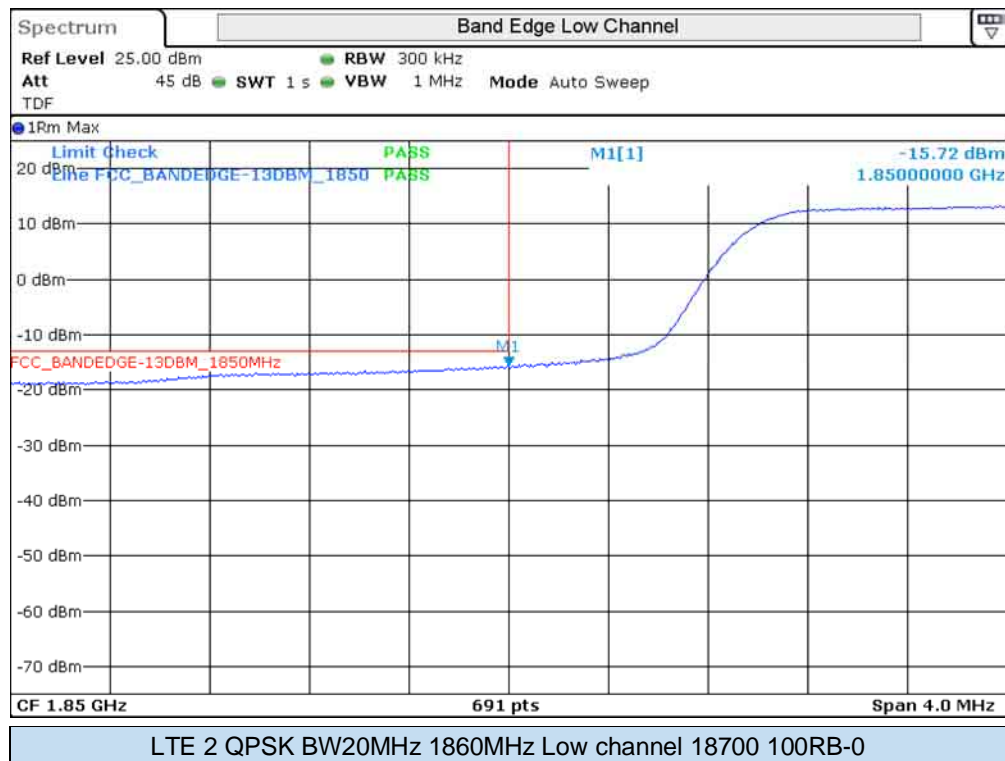
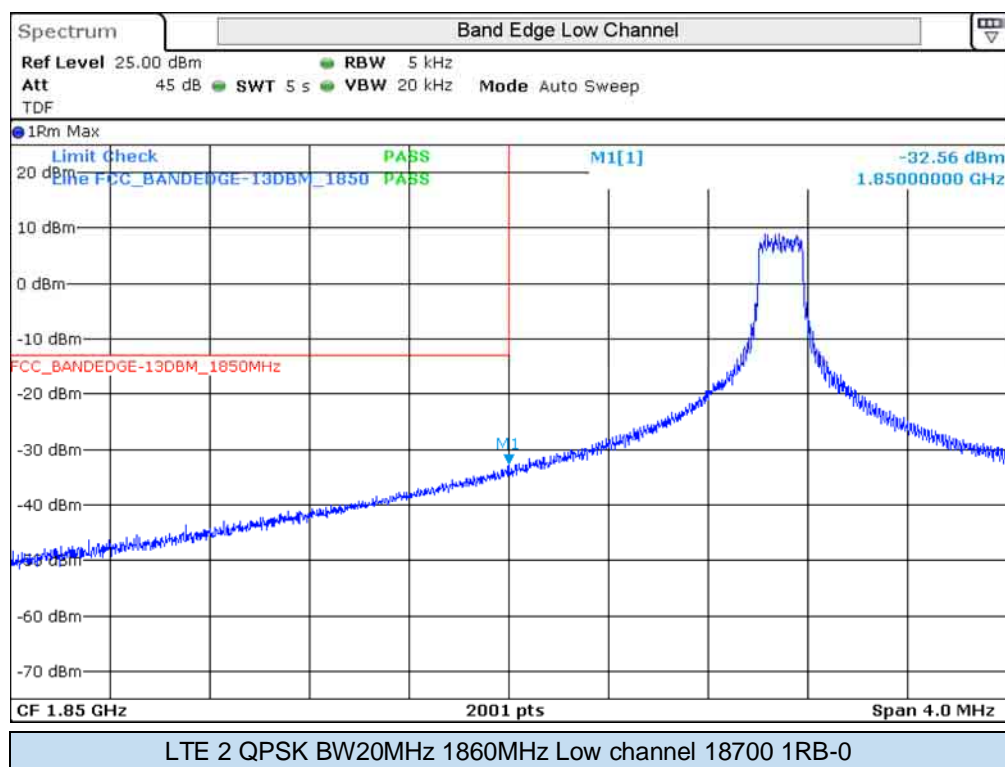


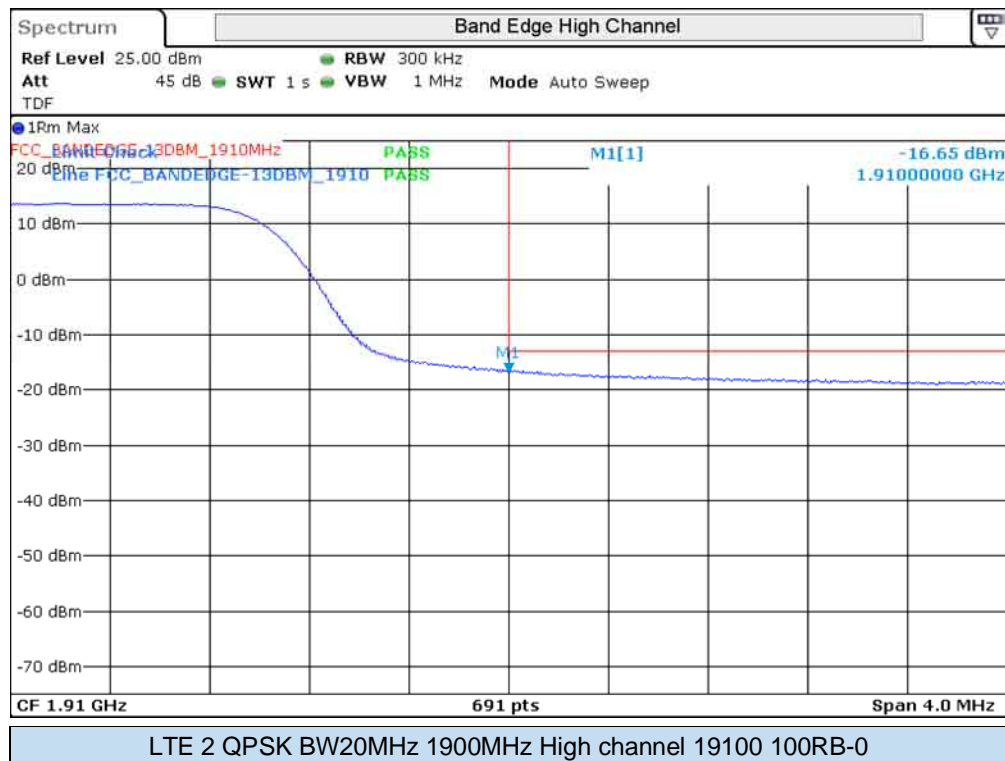
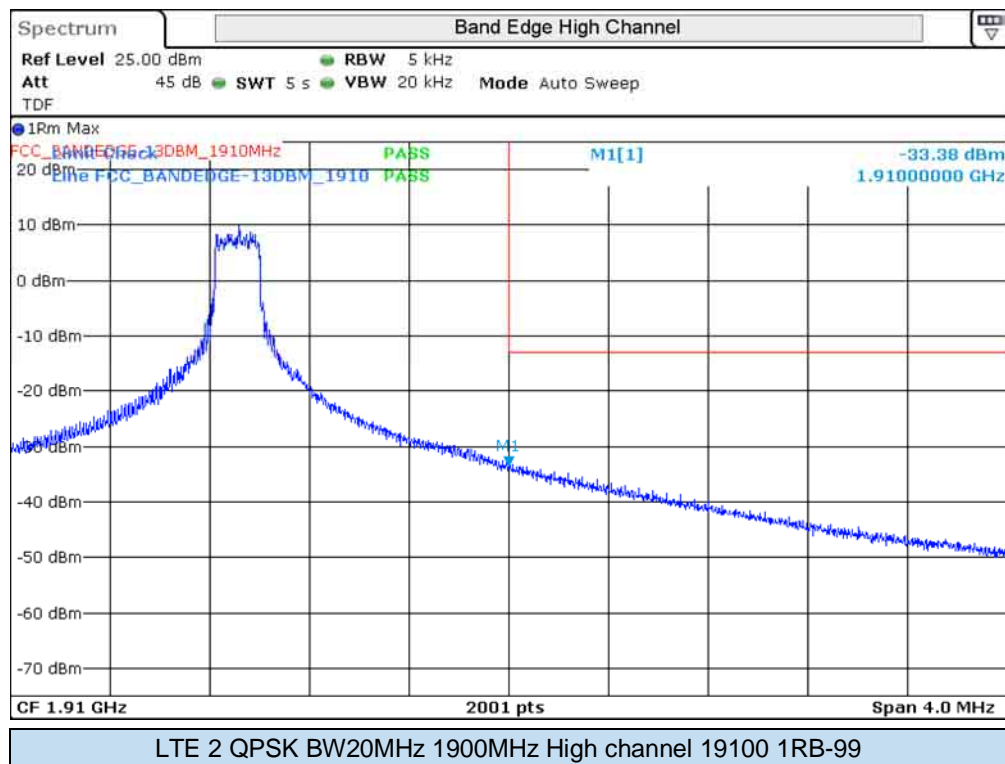




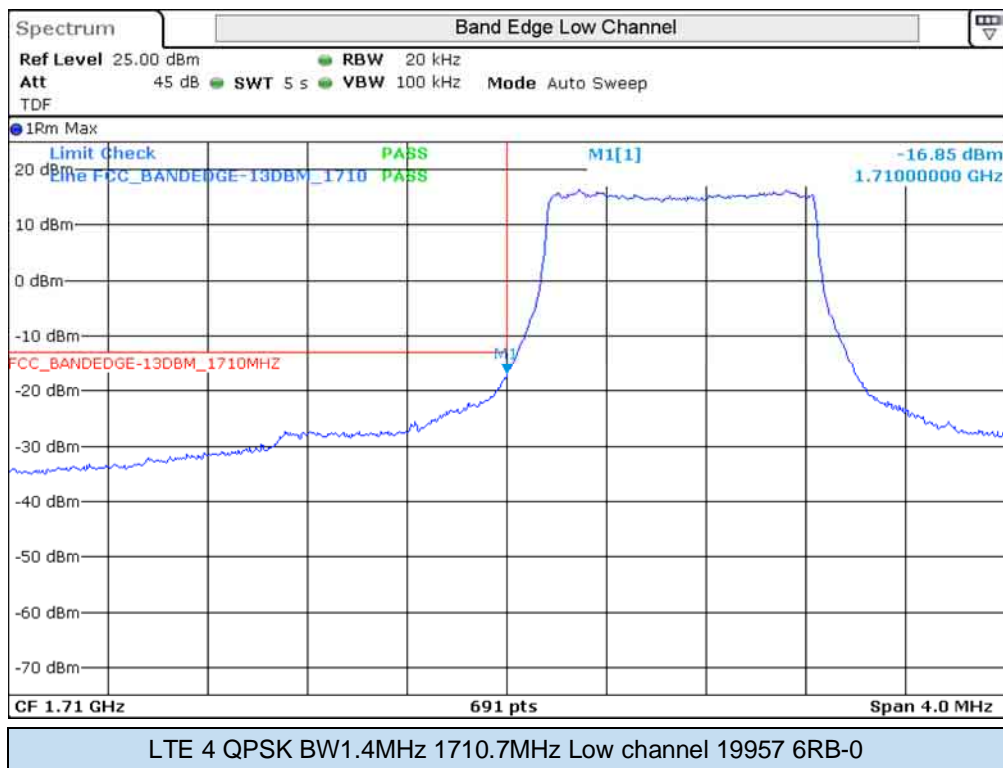
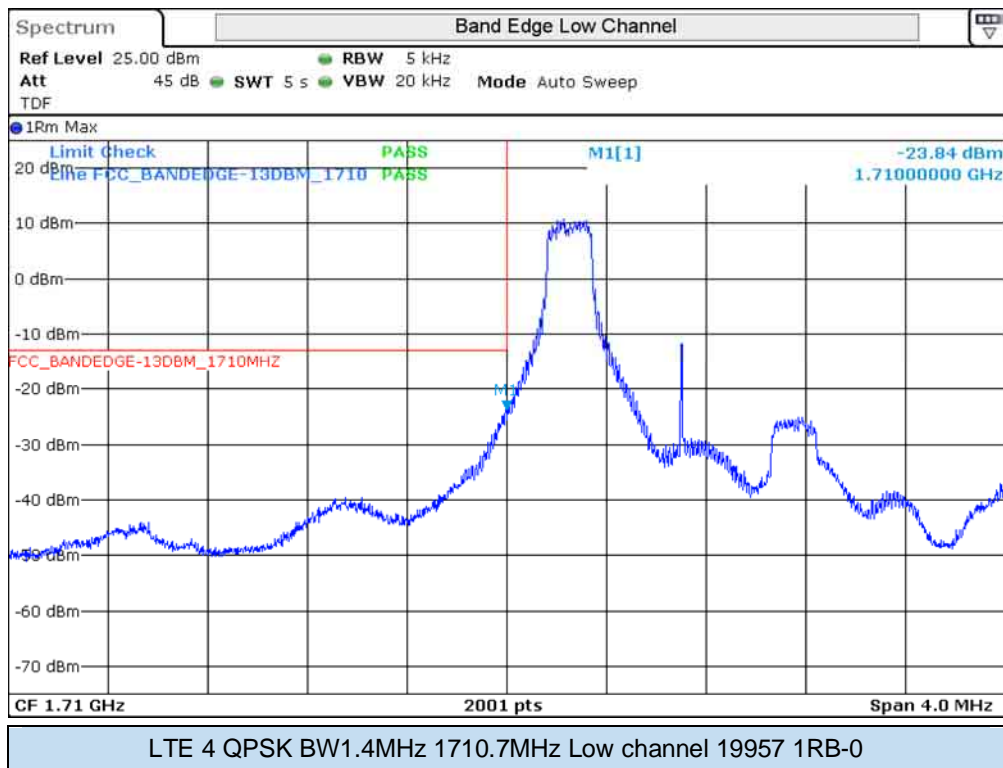


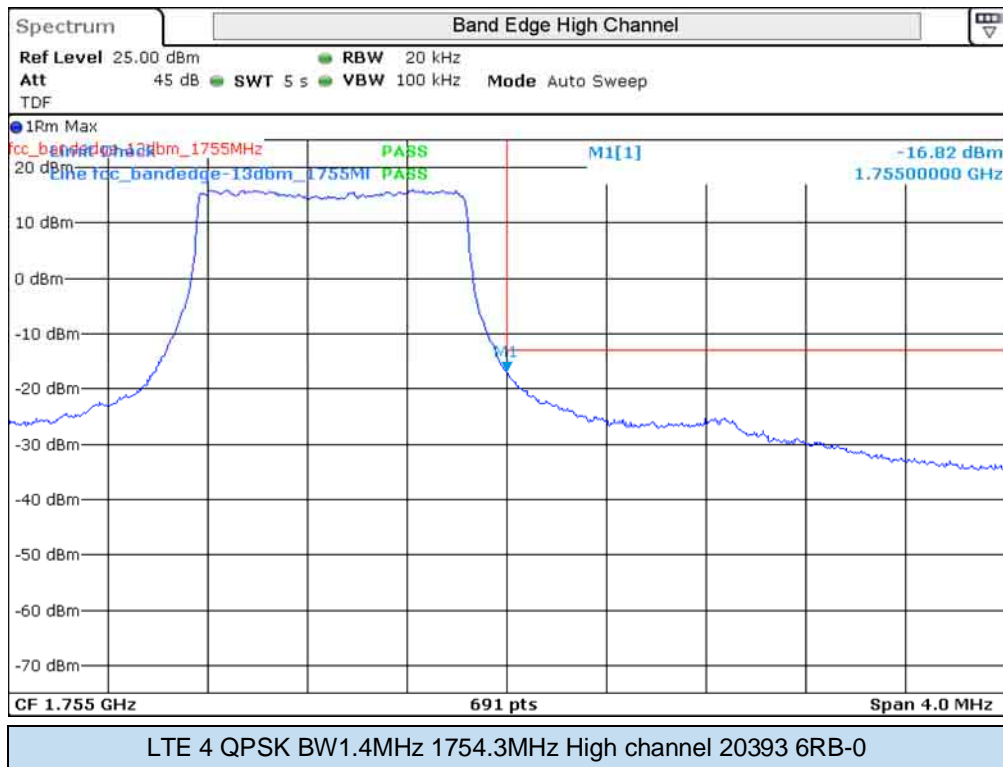
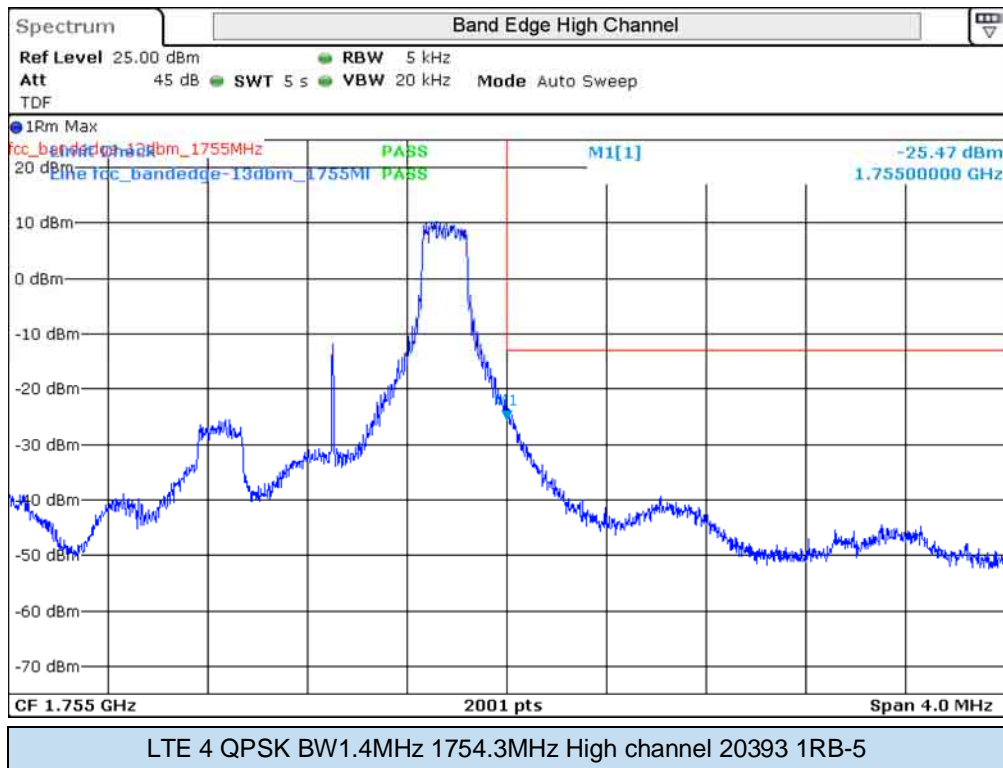


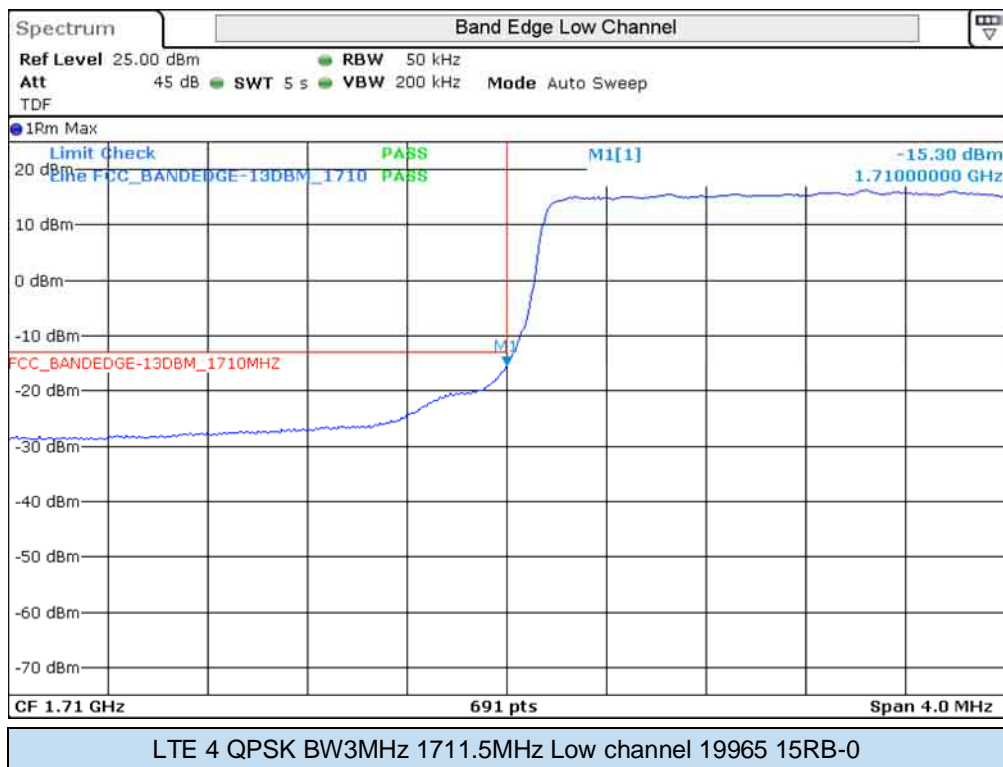
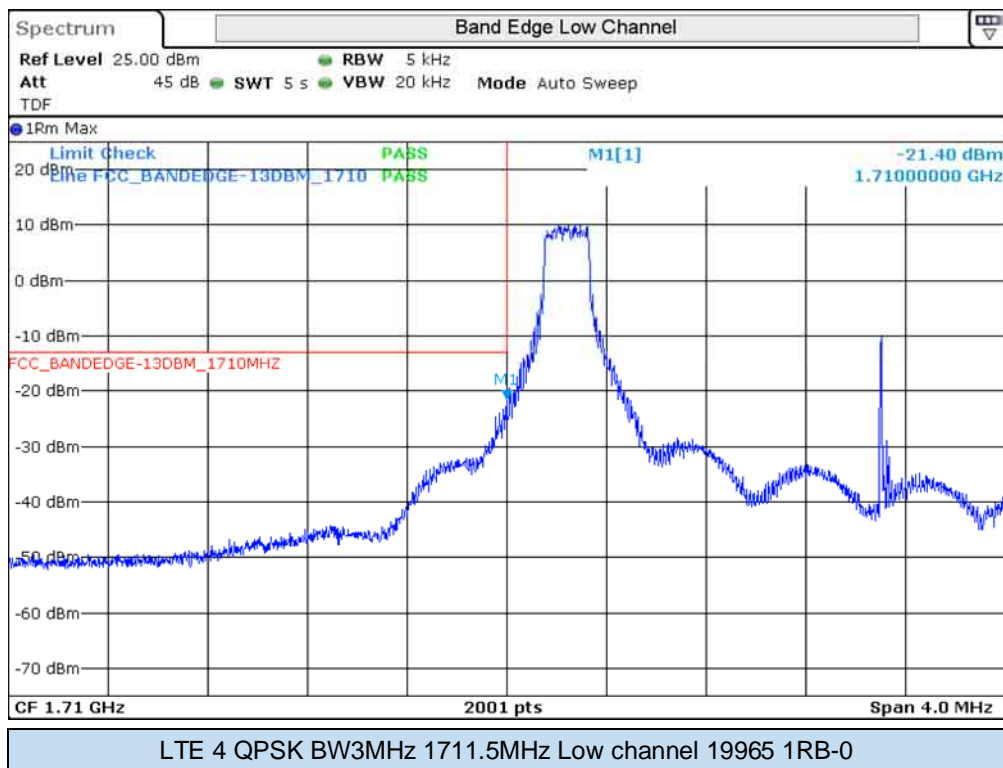


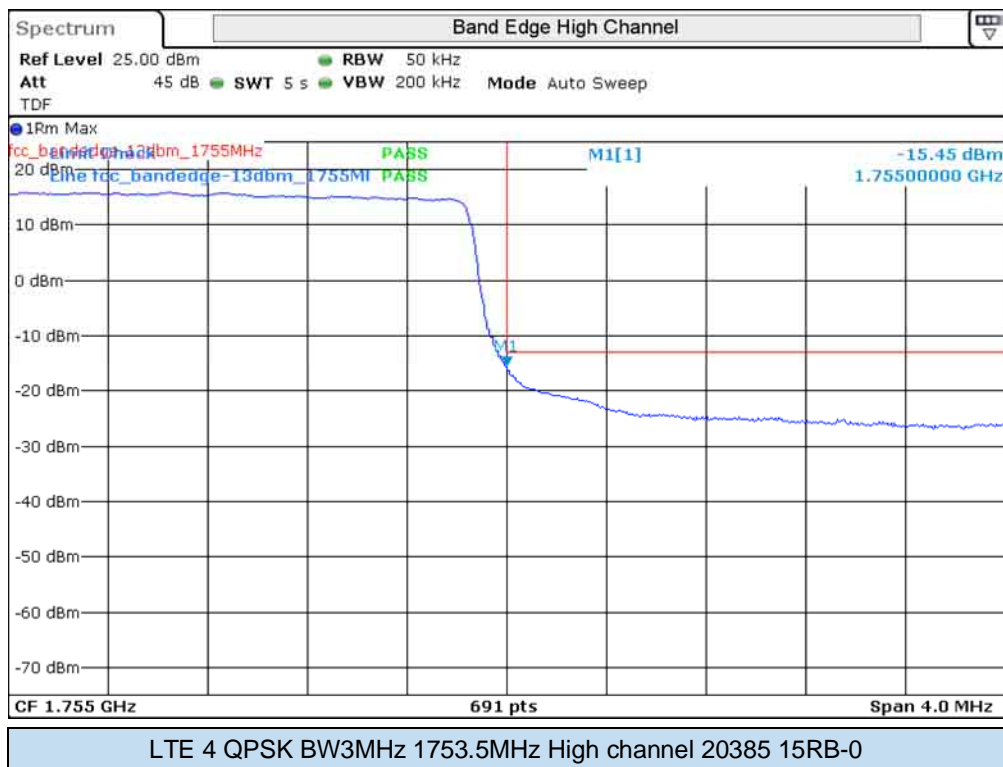
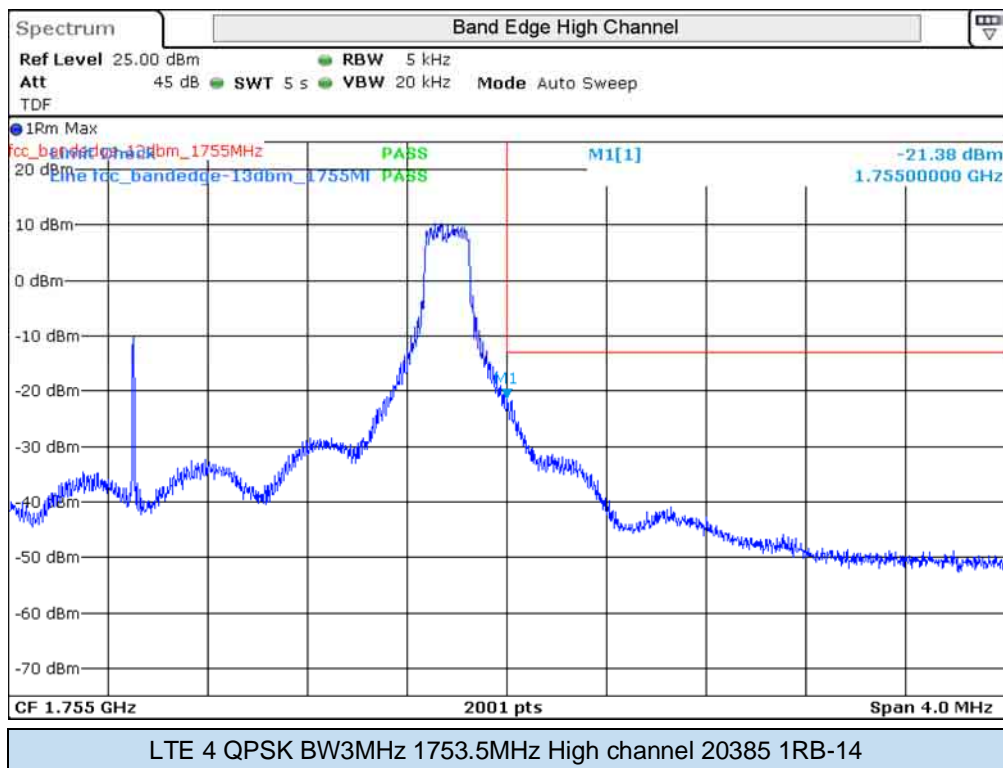


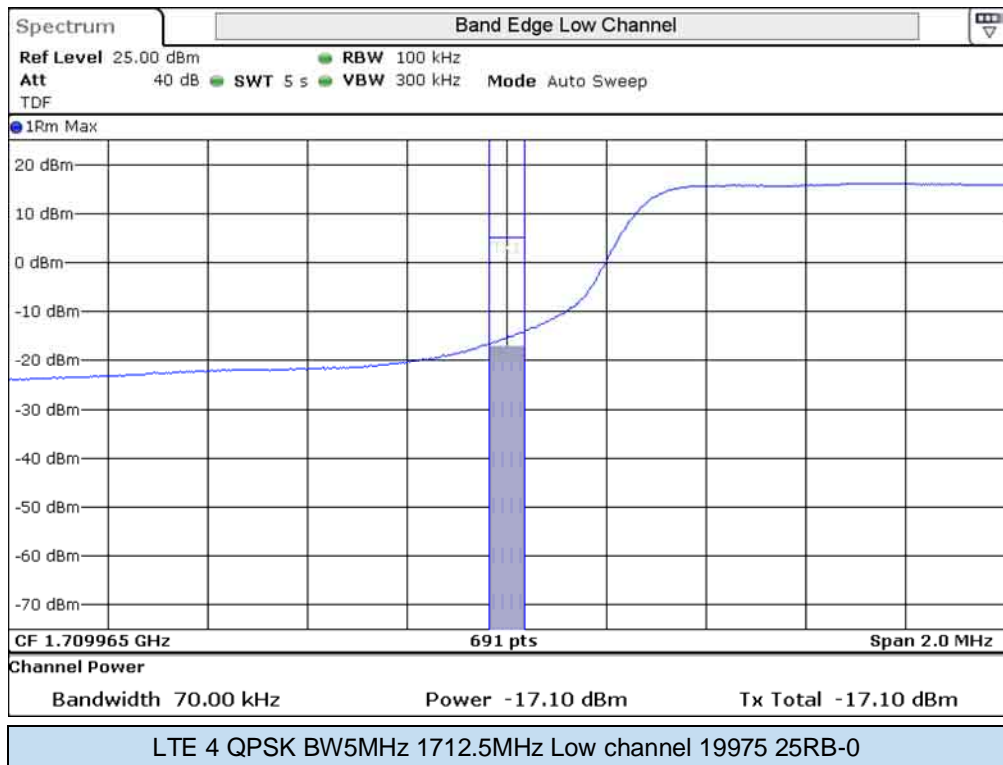
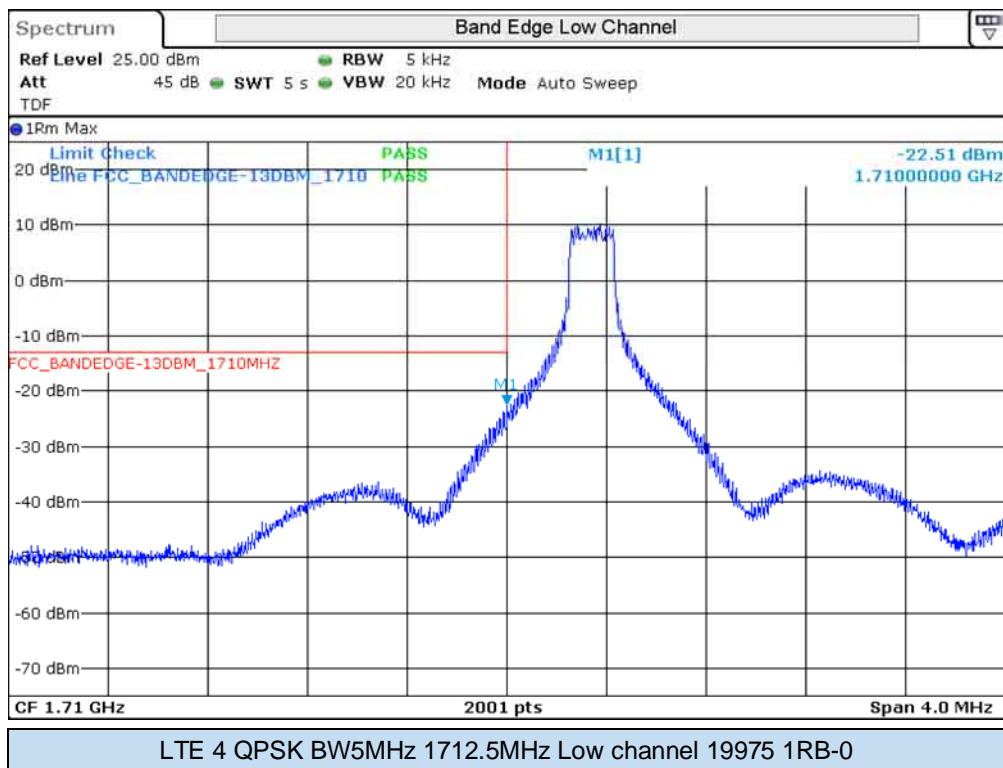
LTE4

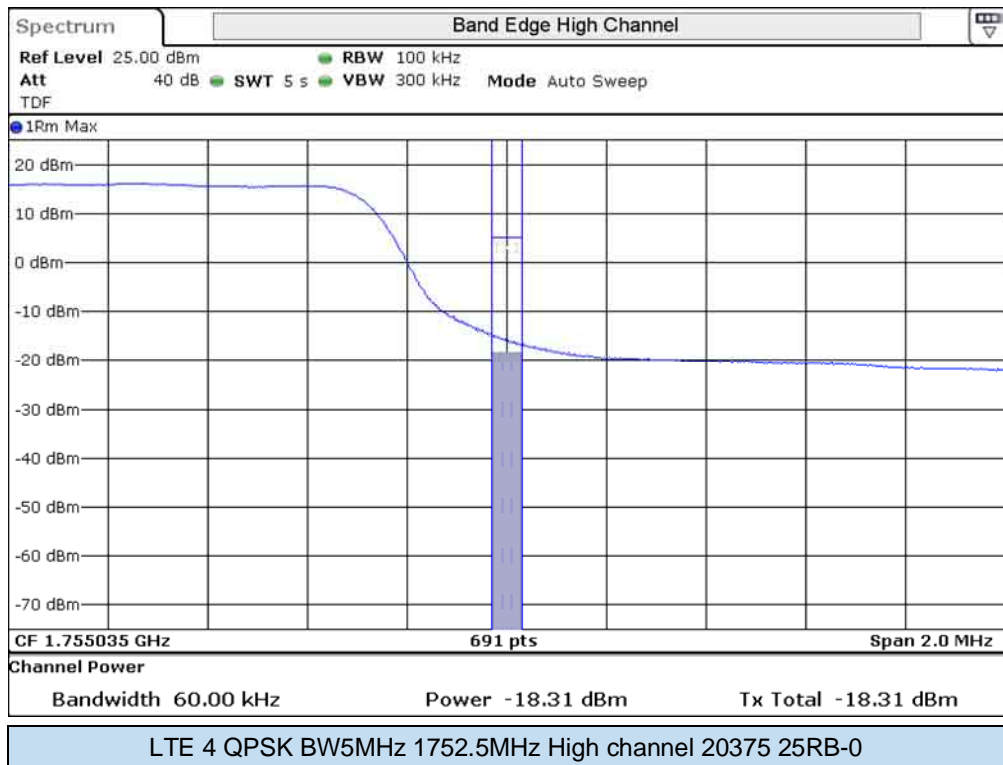
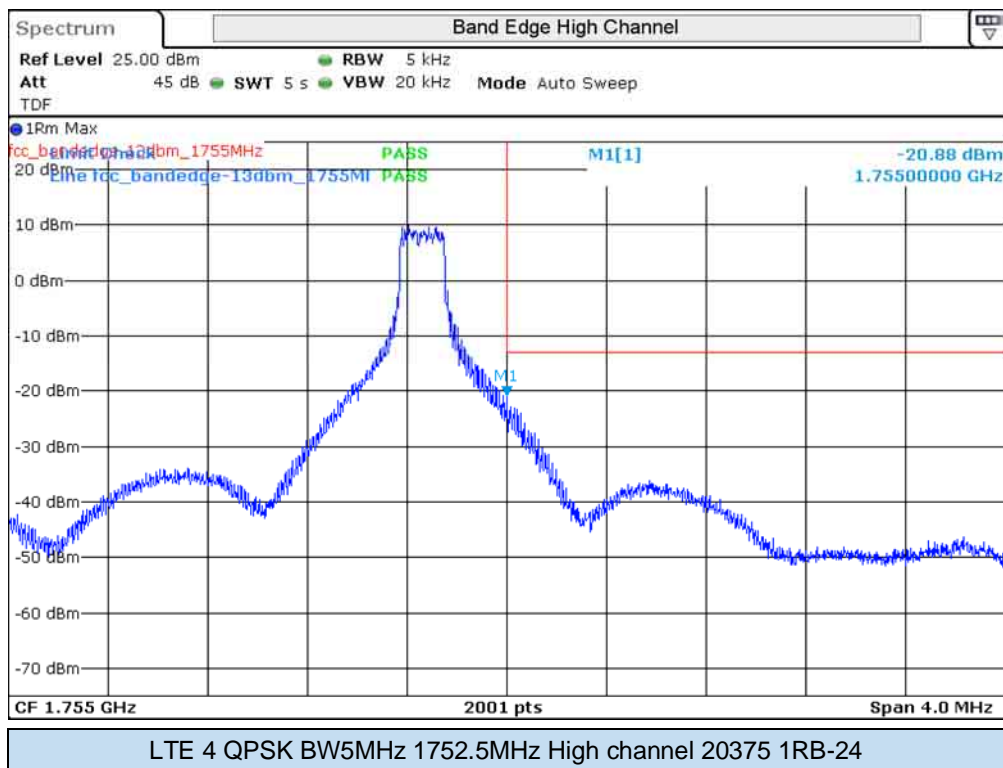


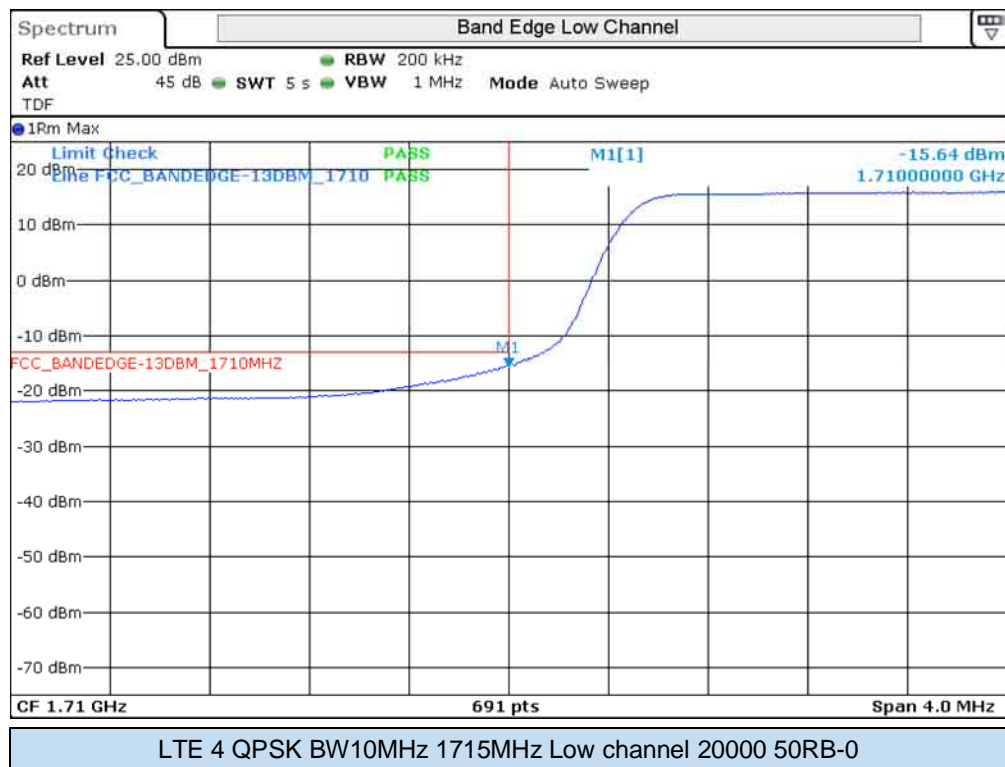
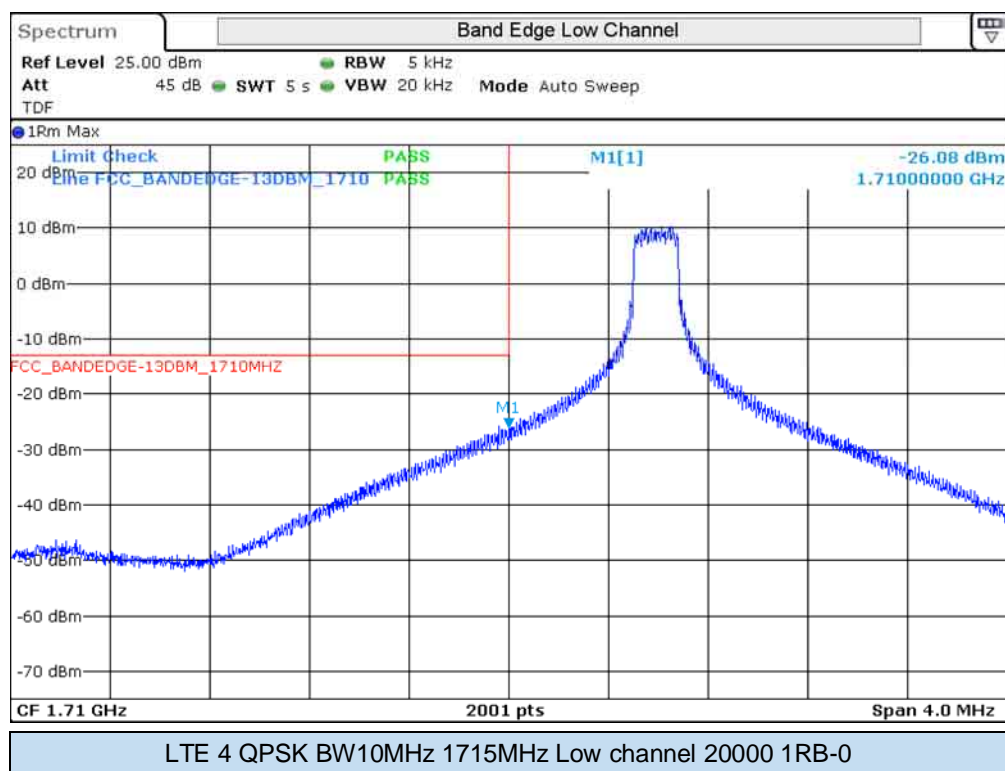


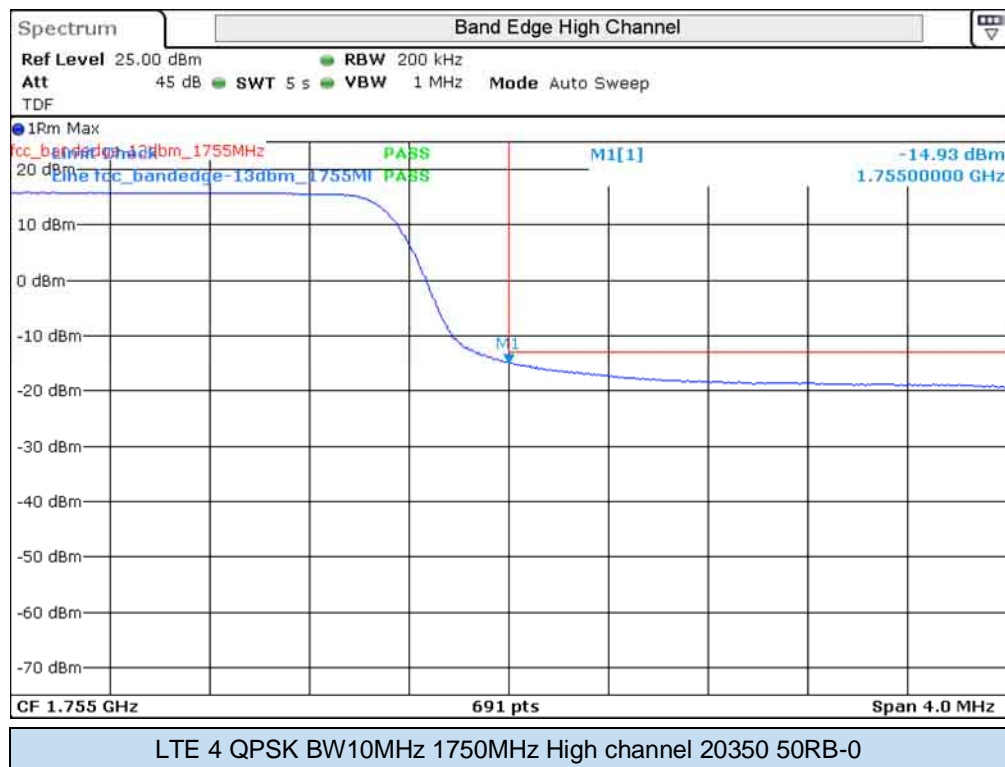
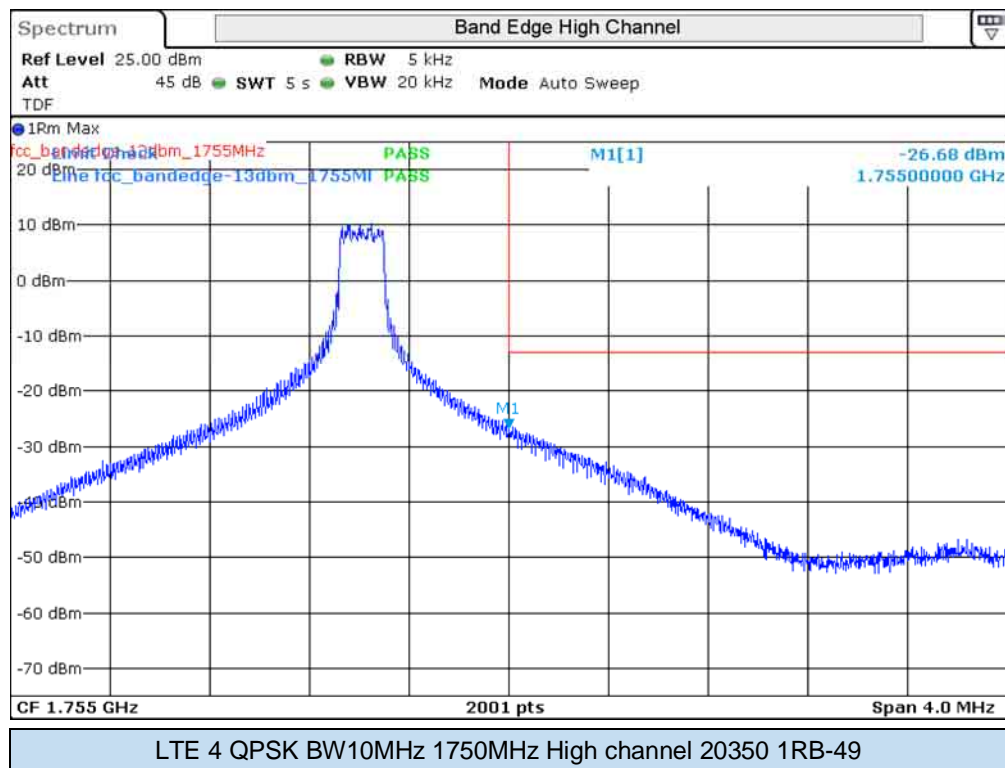


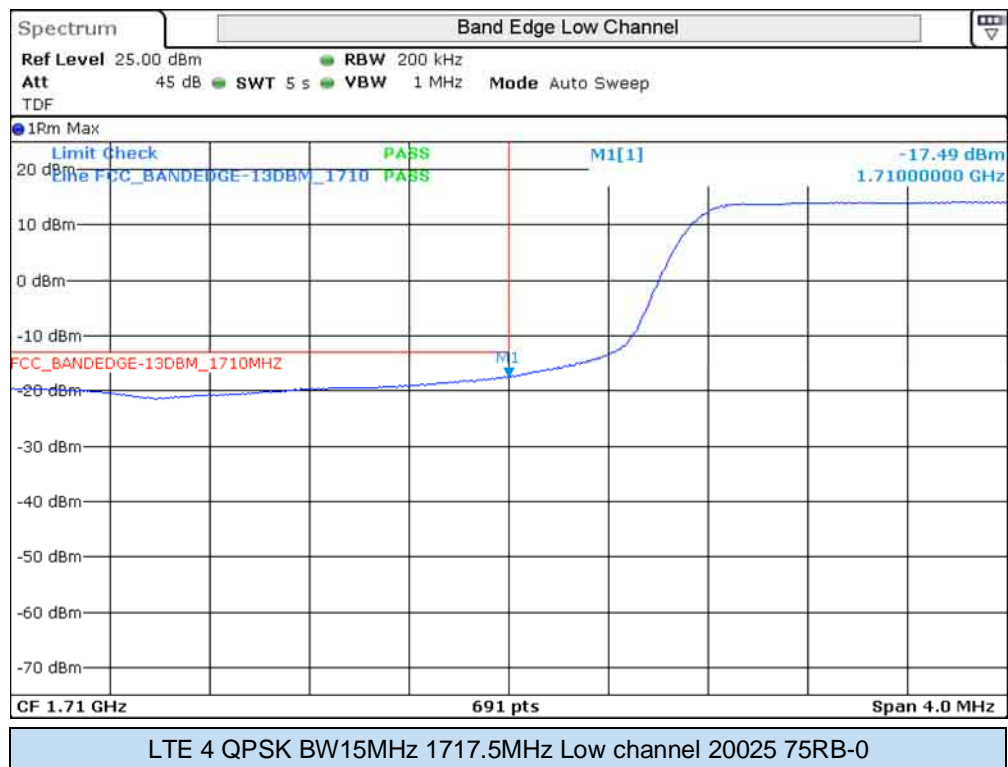
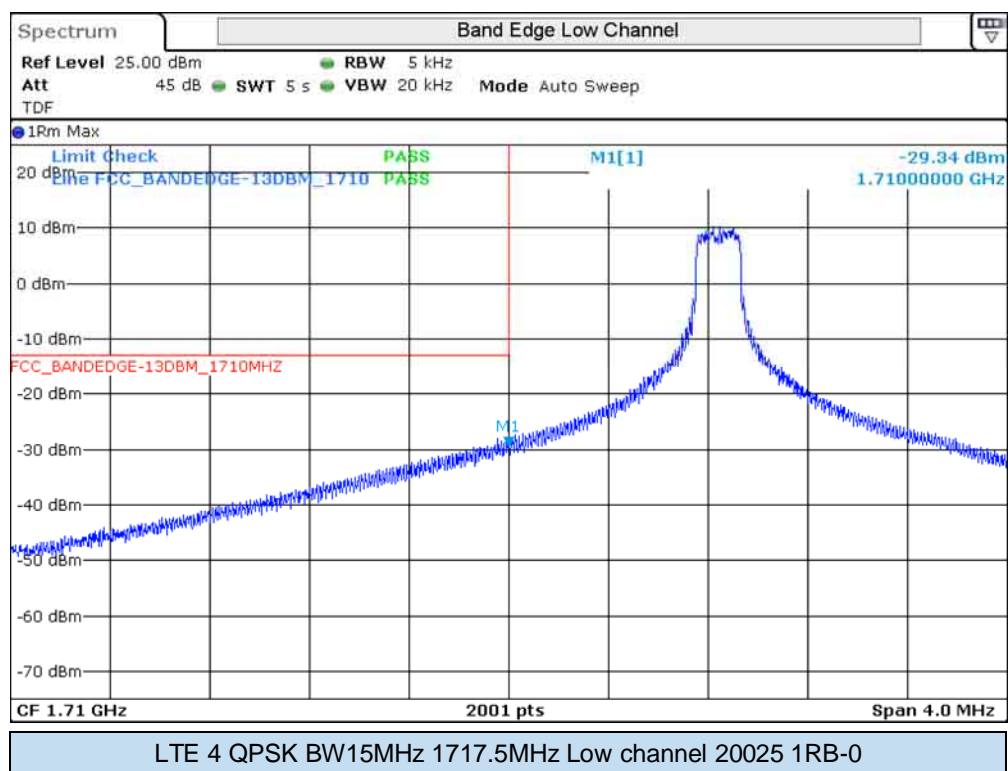


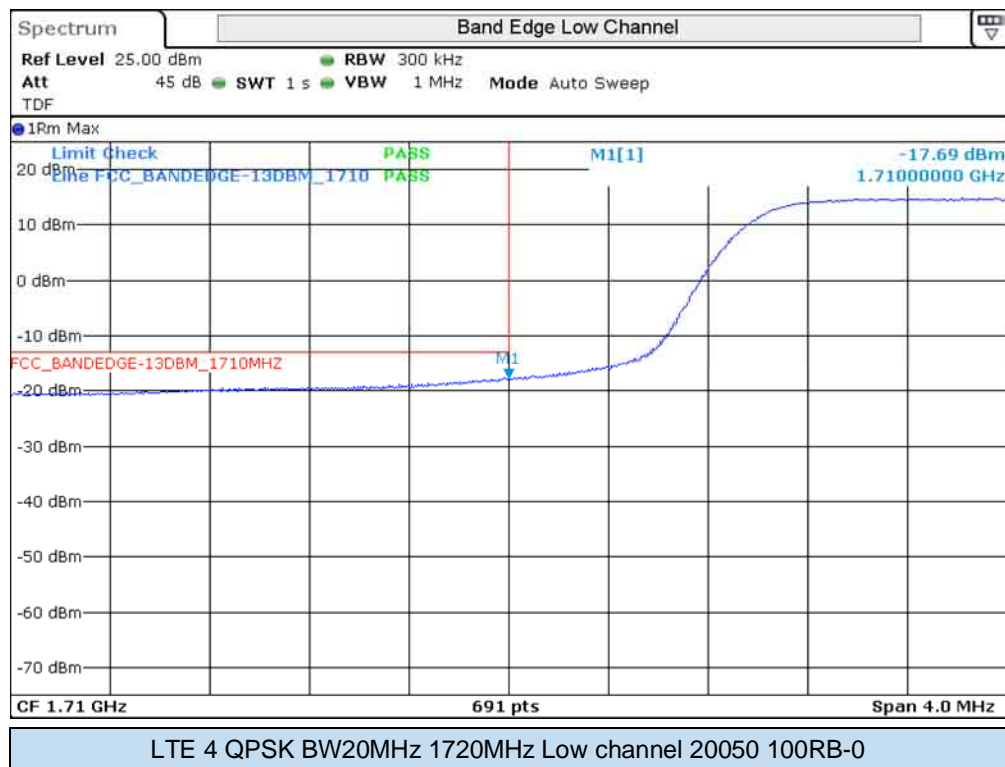
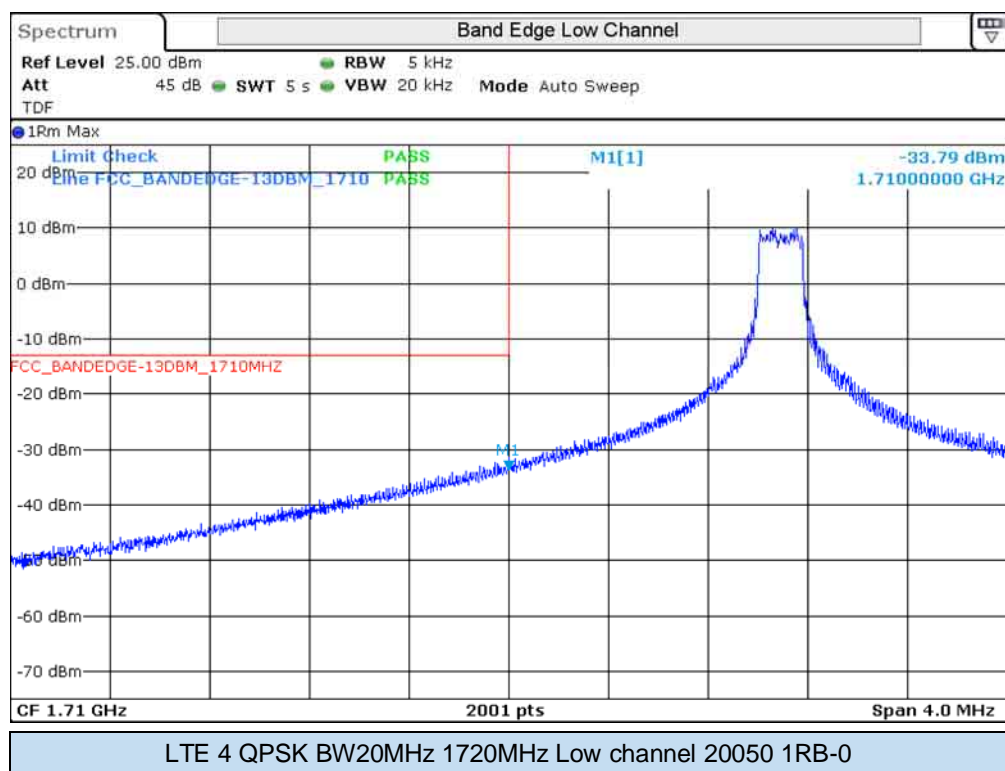




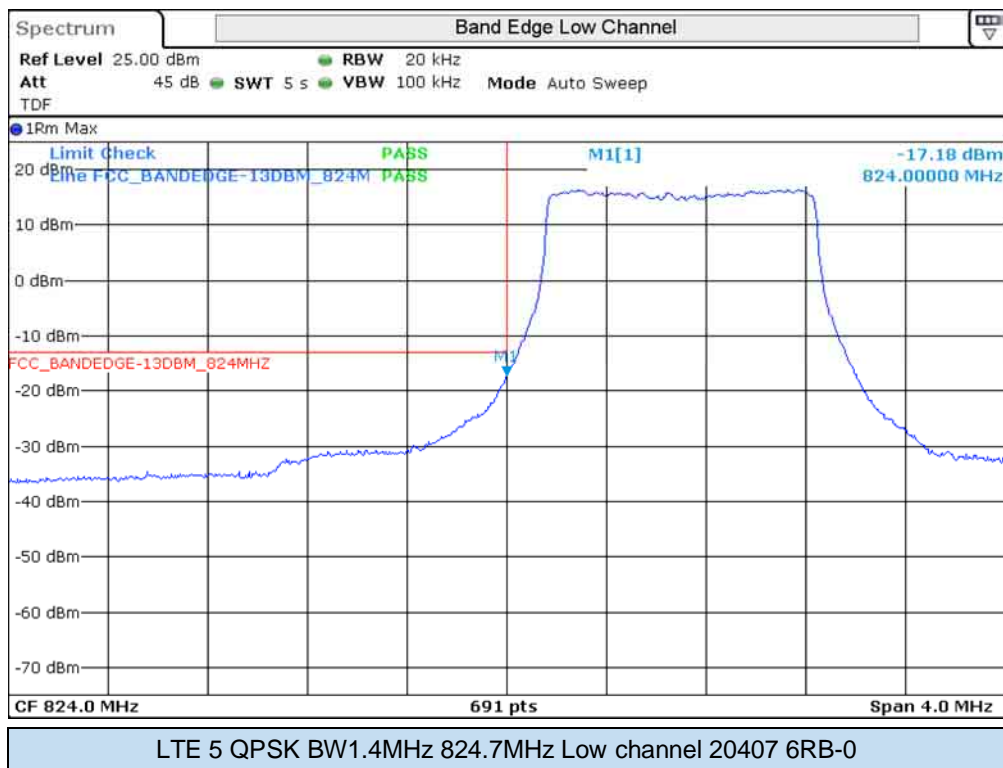
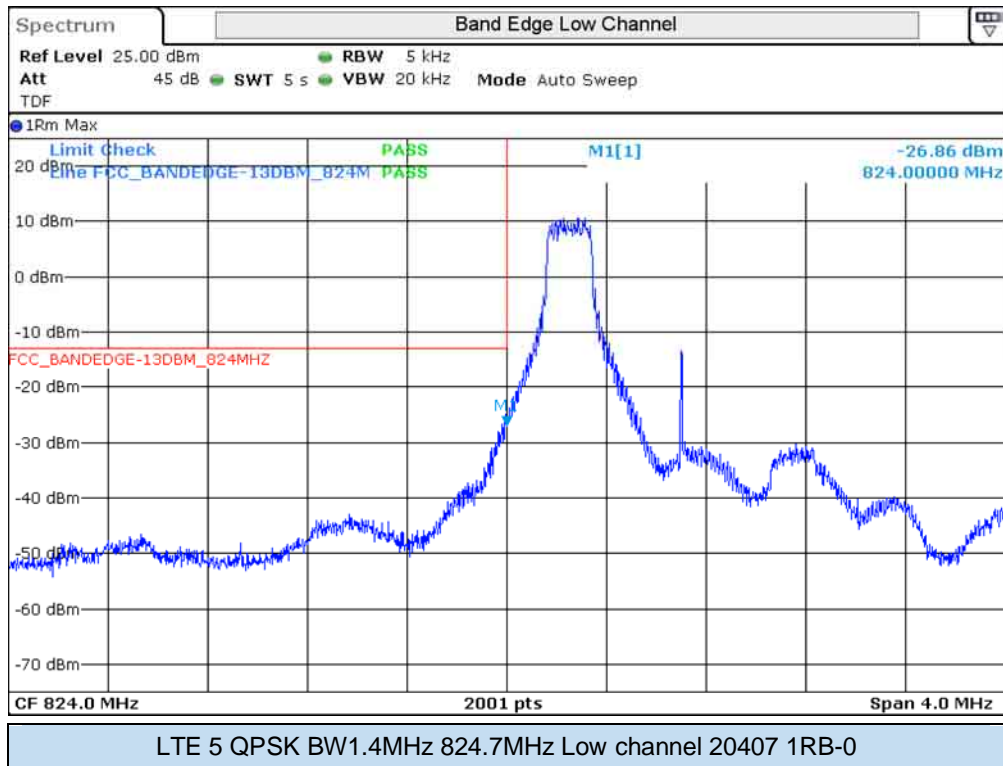


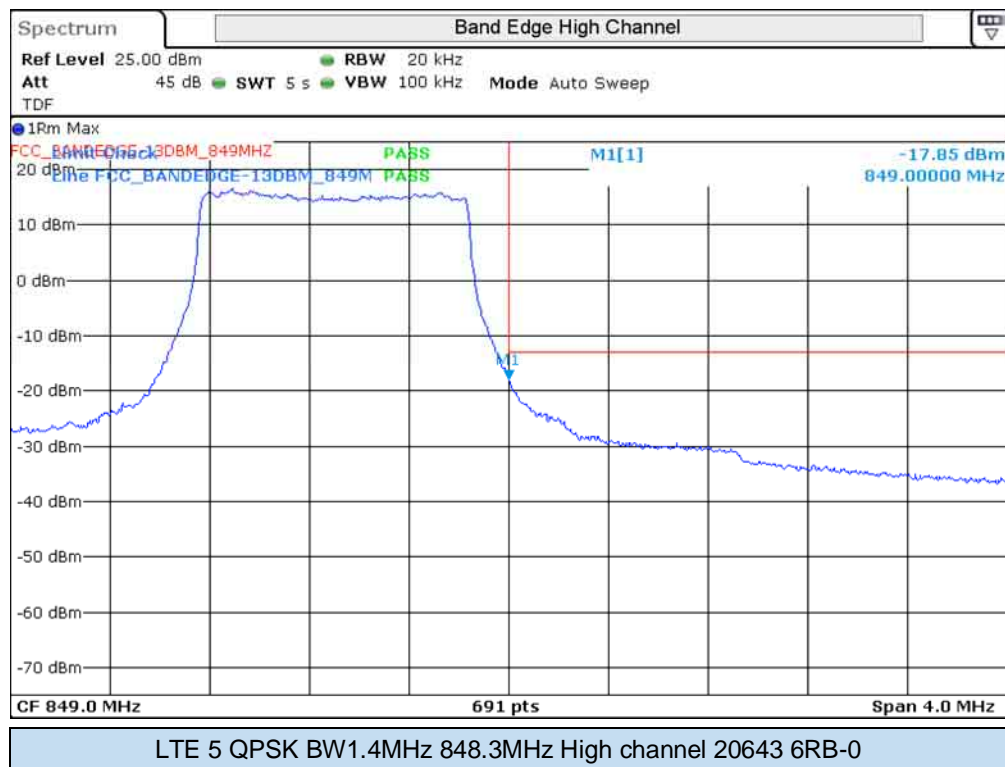
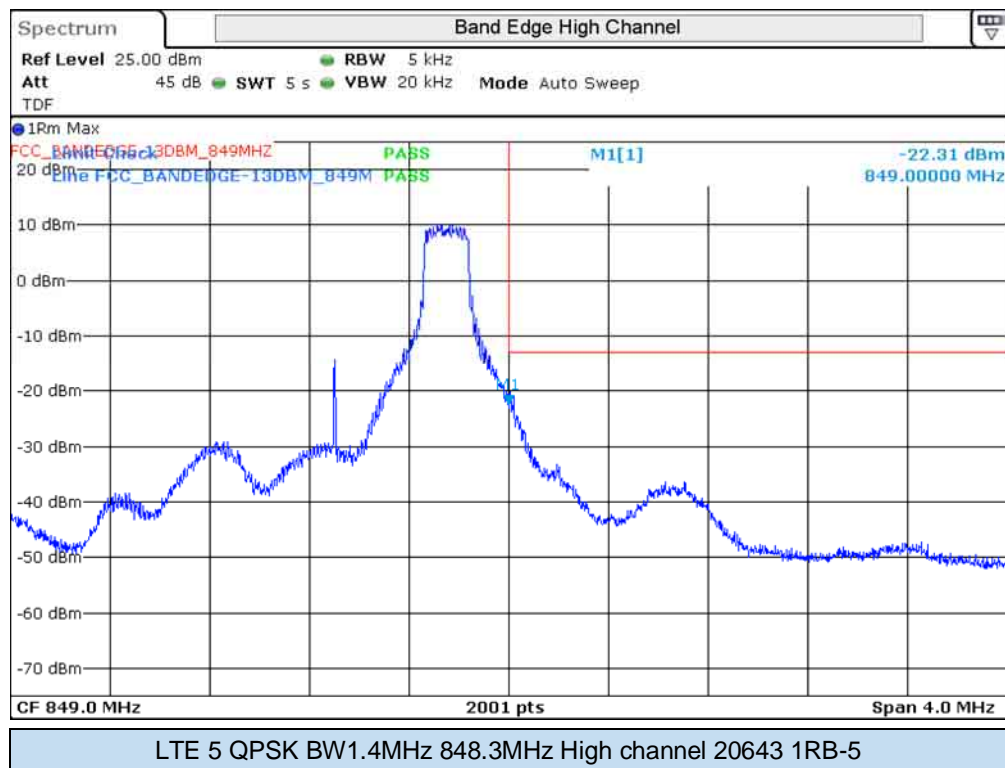


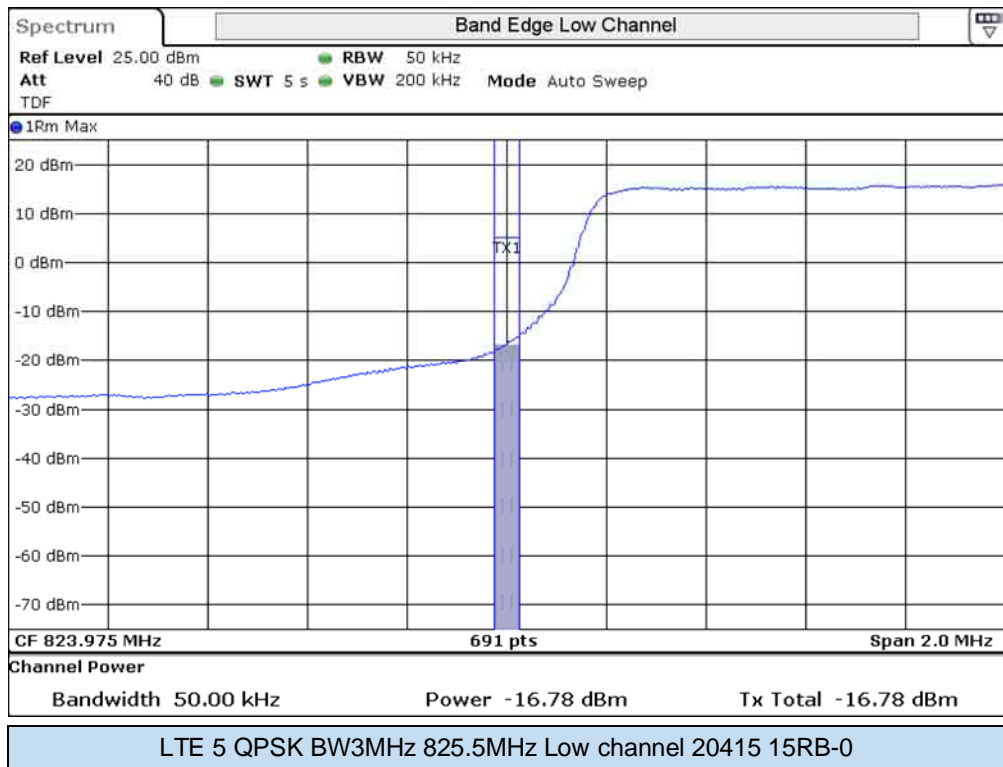
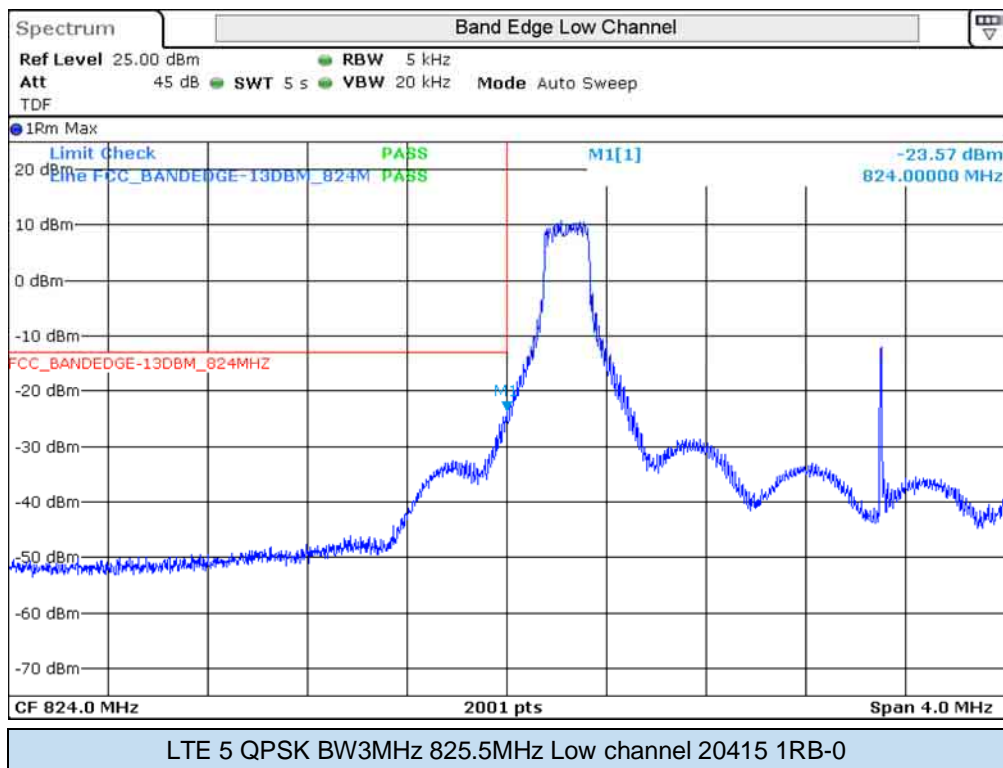


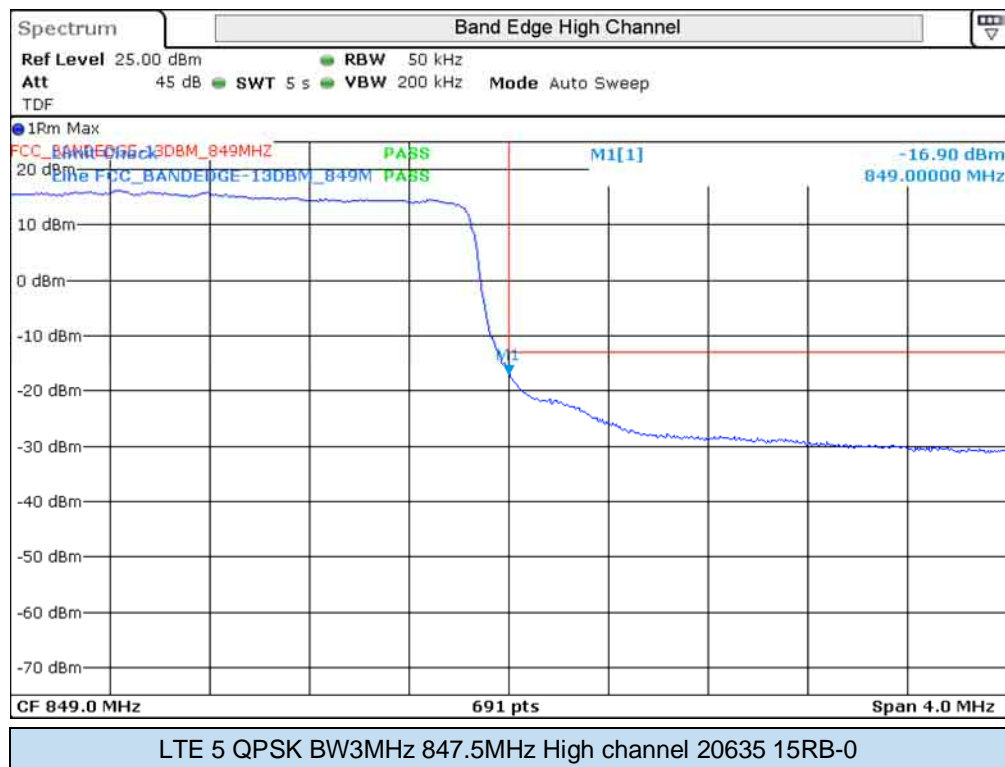
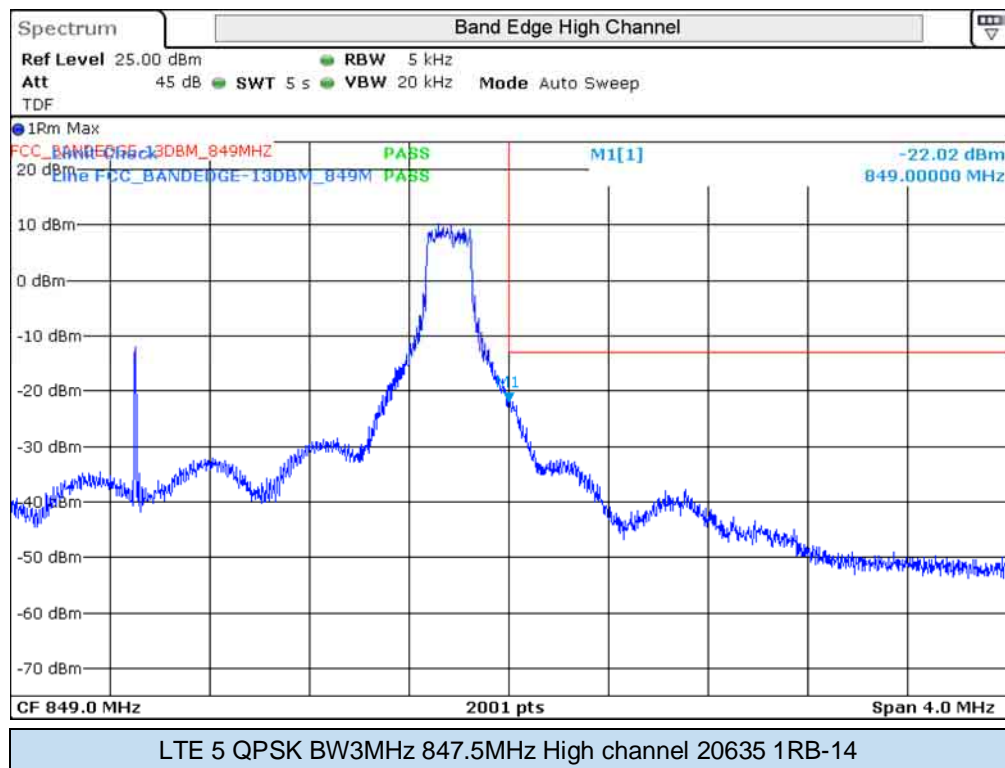


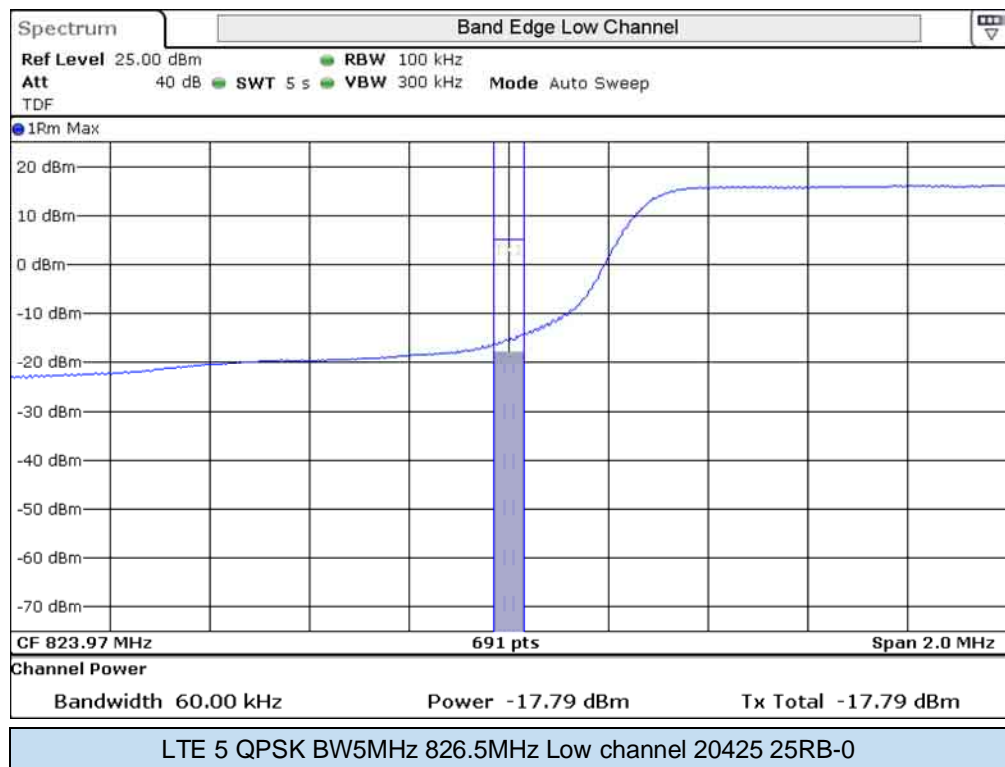
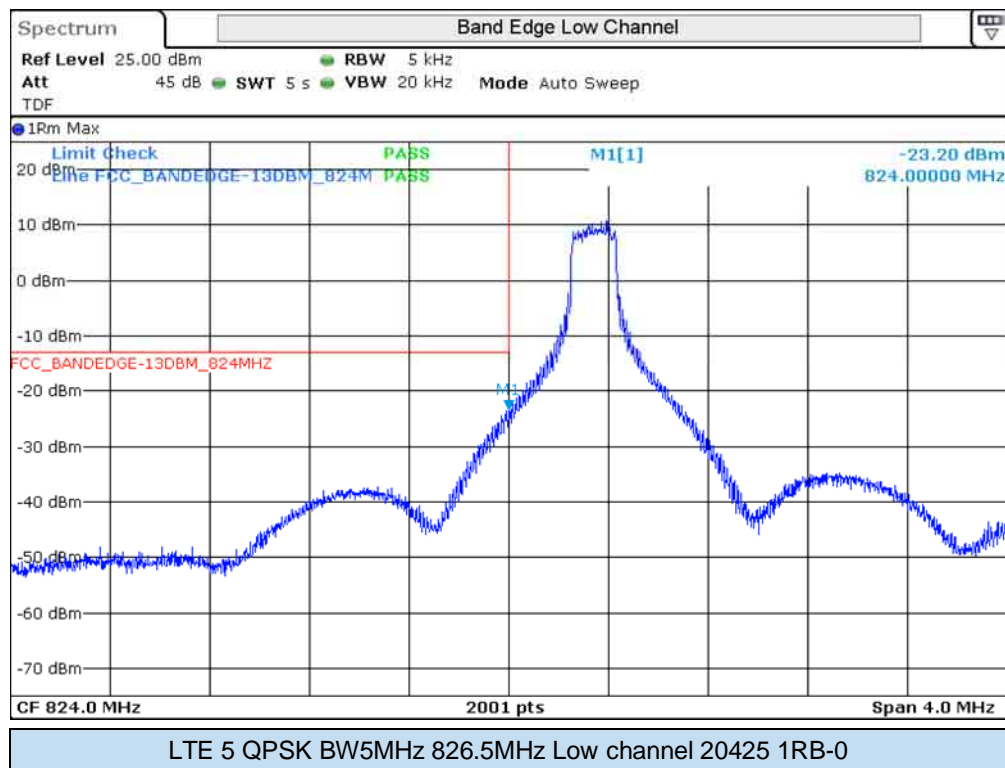
LTE5

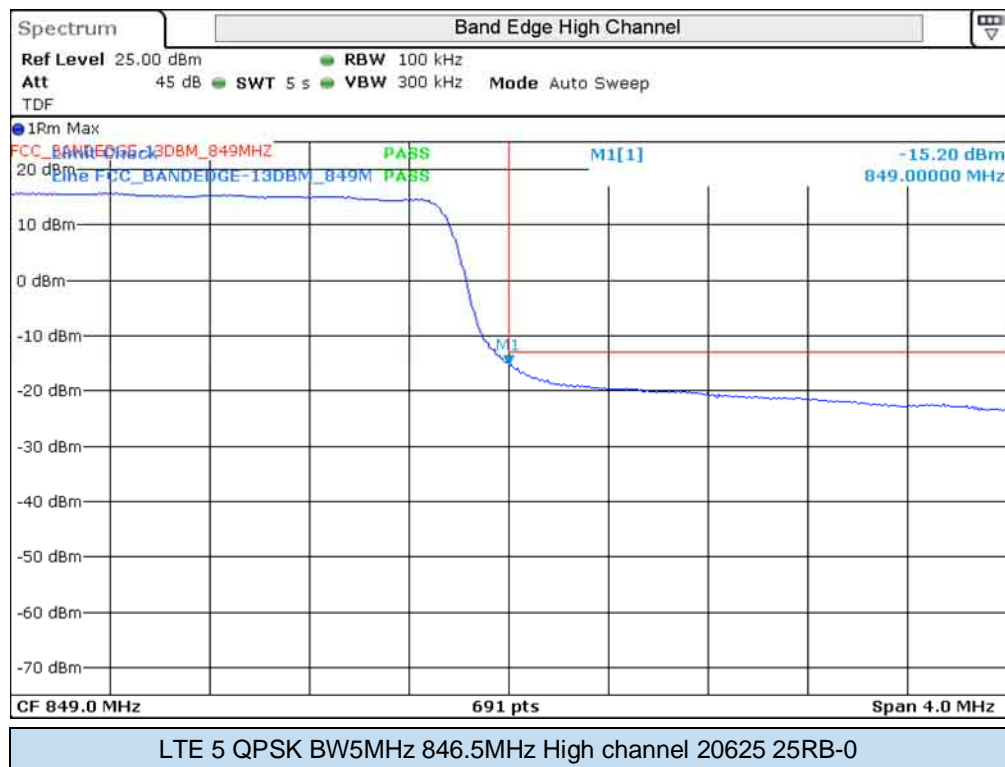
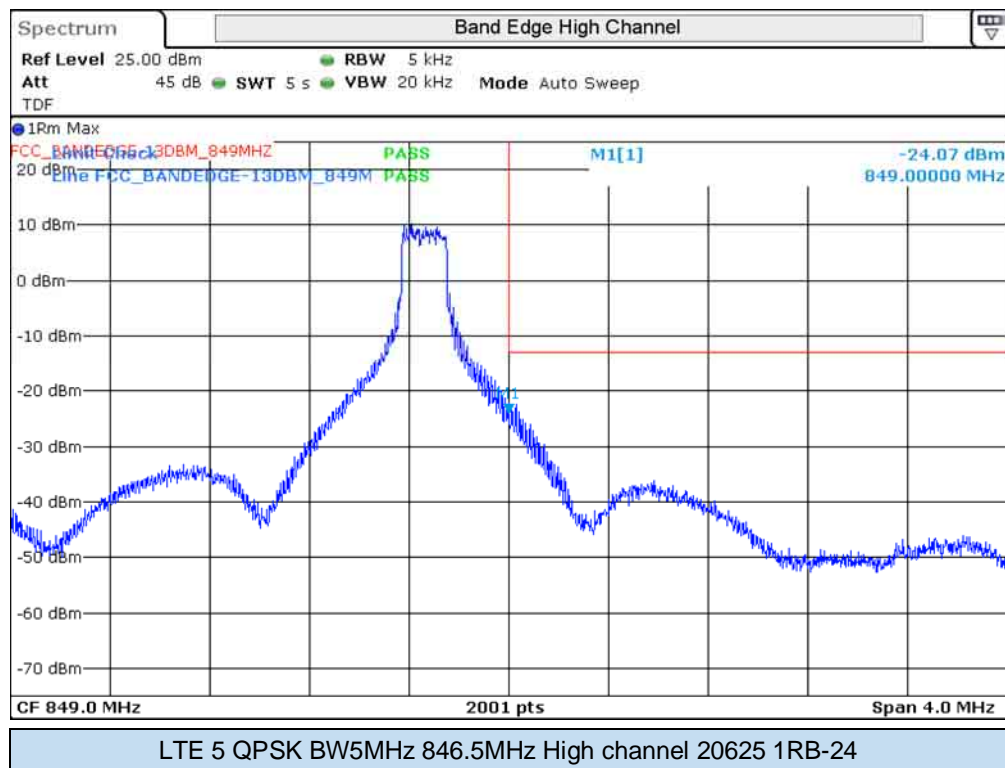


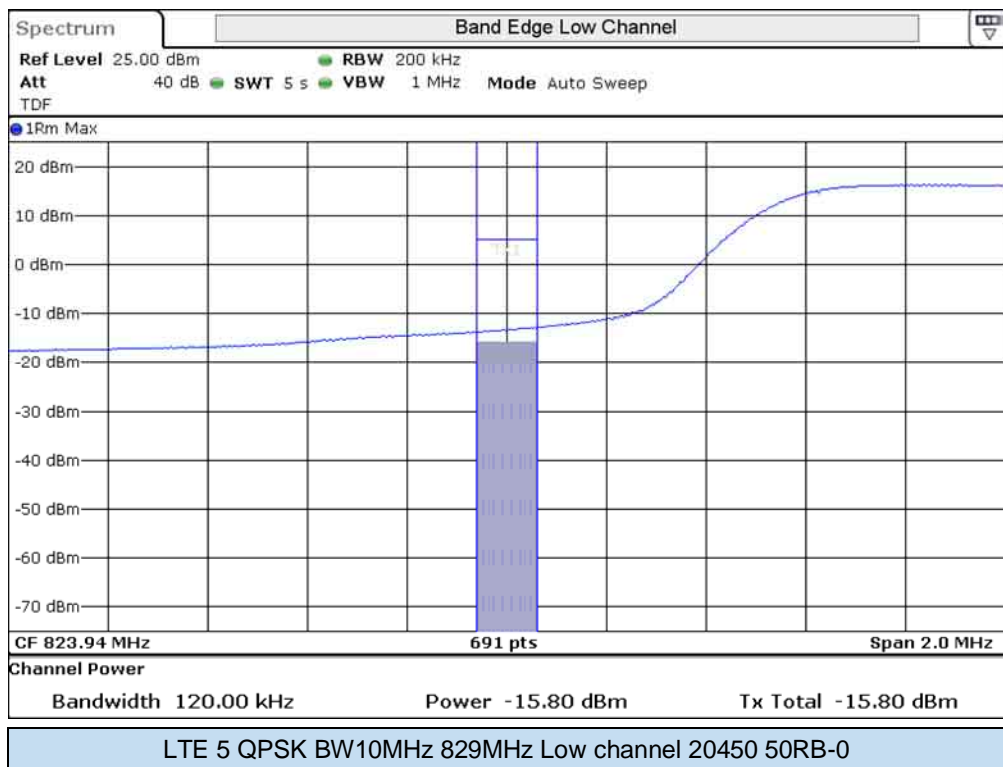
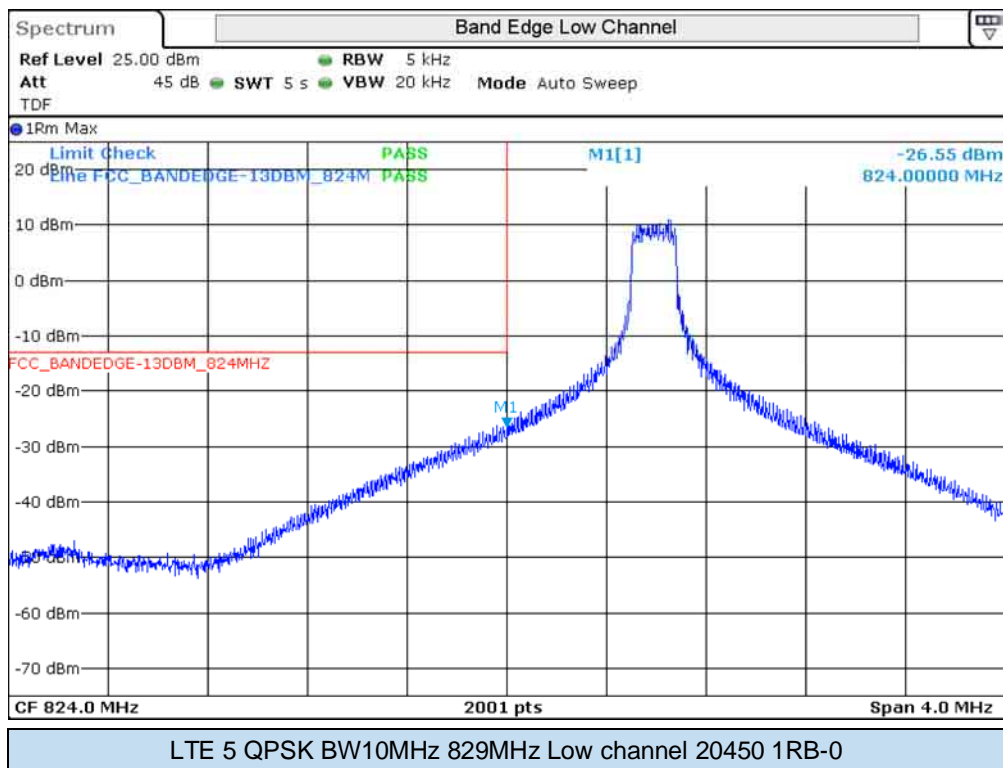


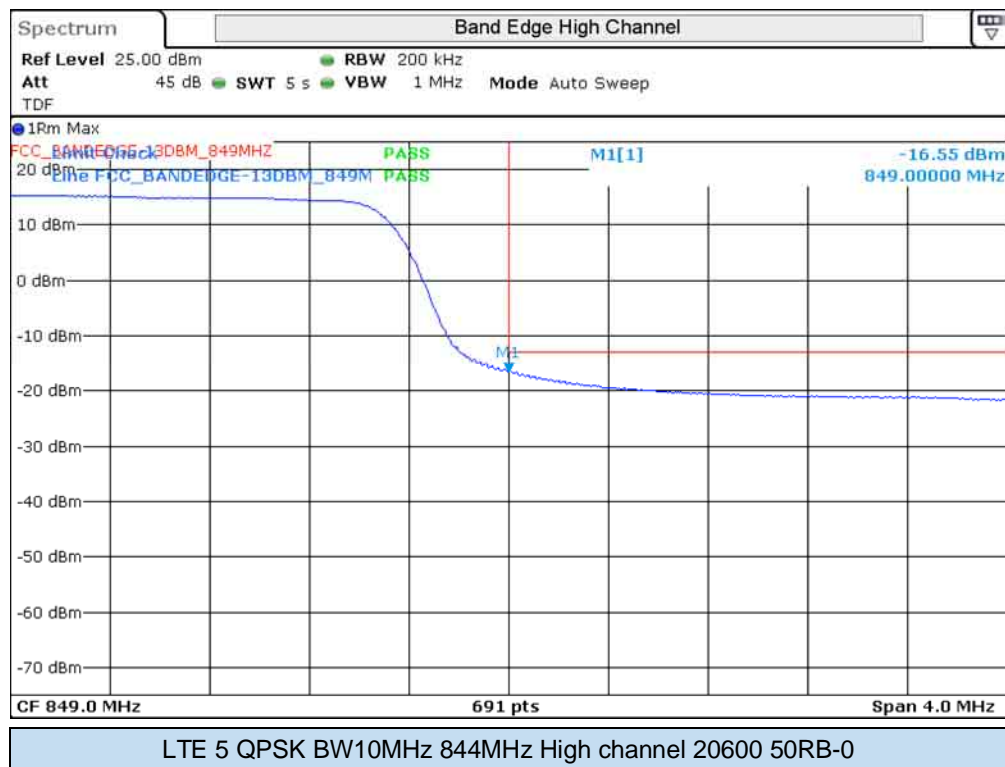
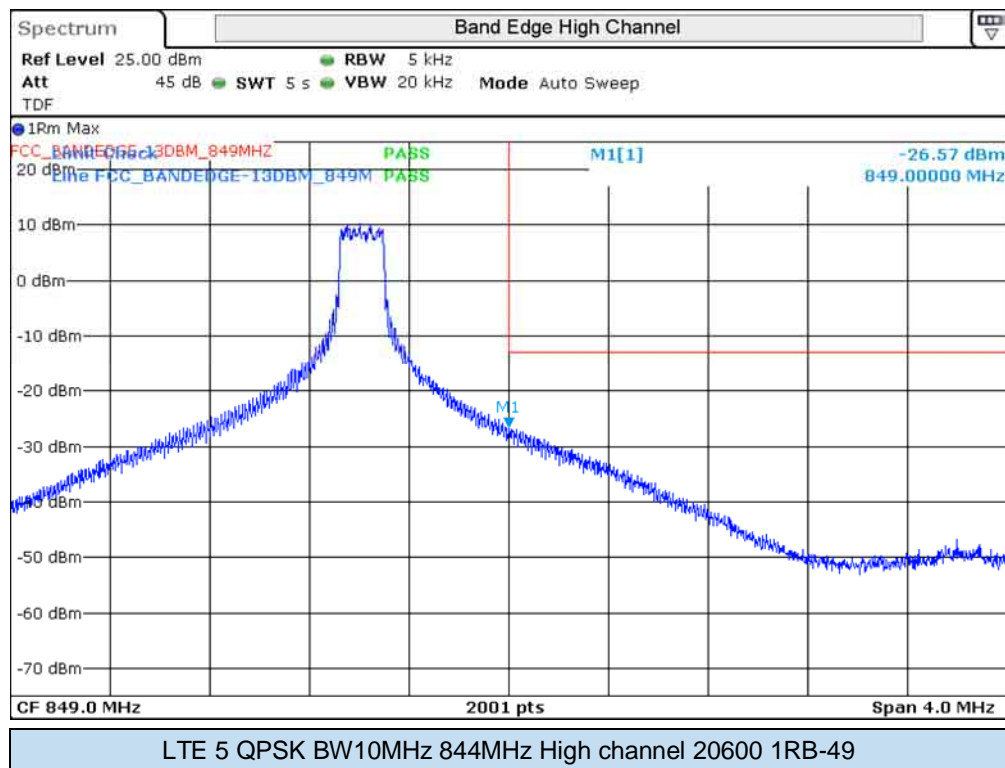




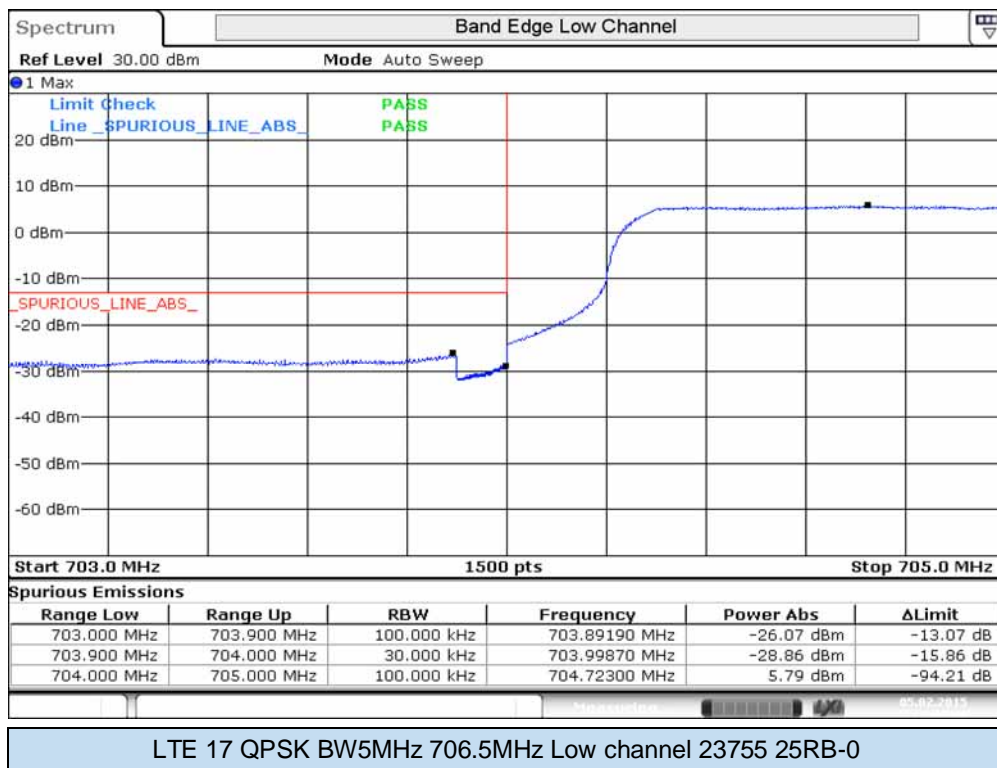
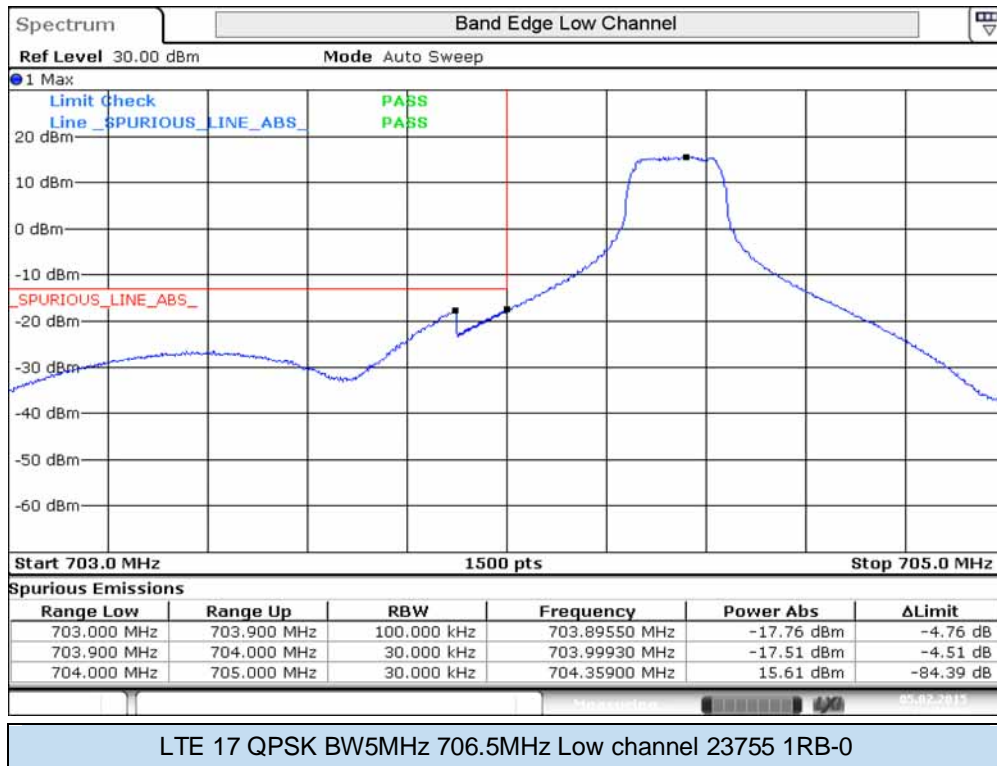


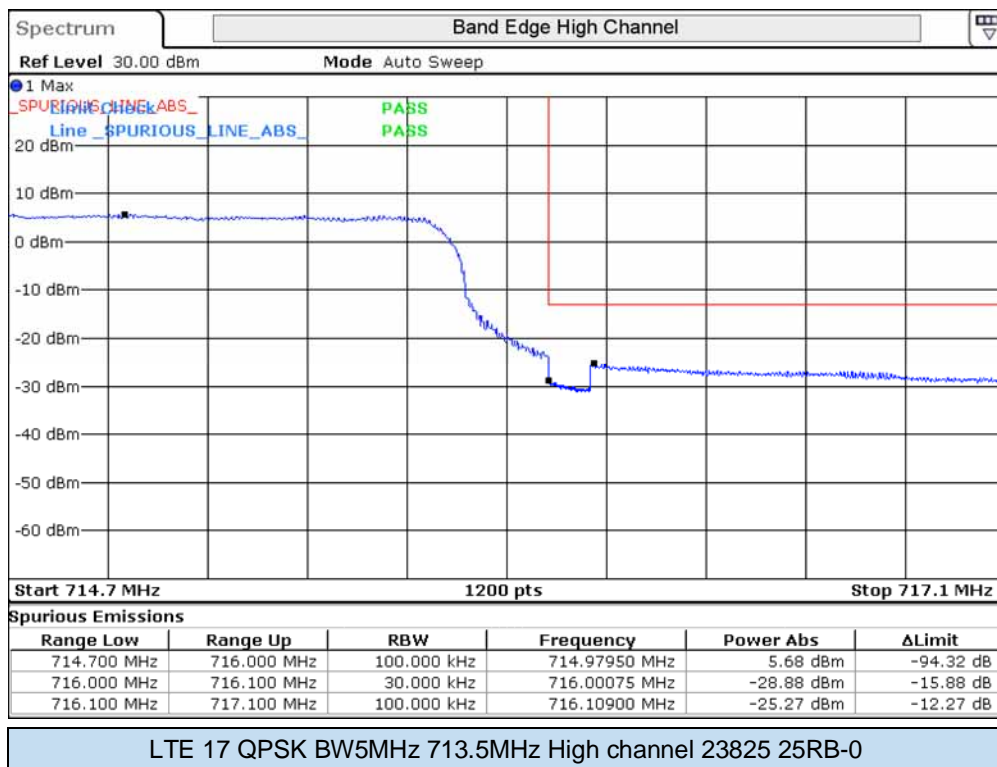
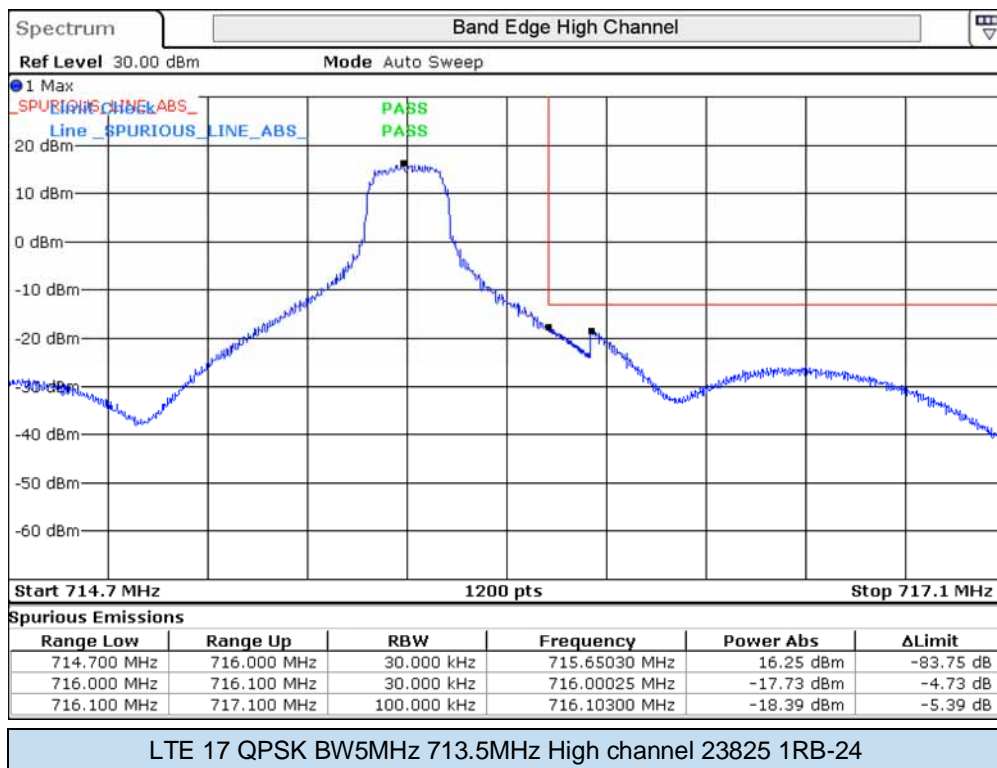


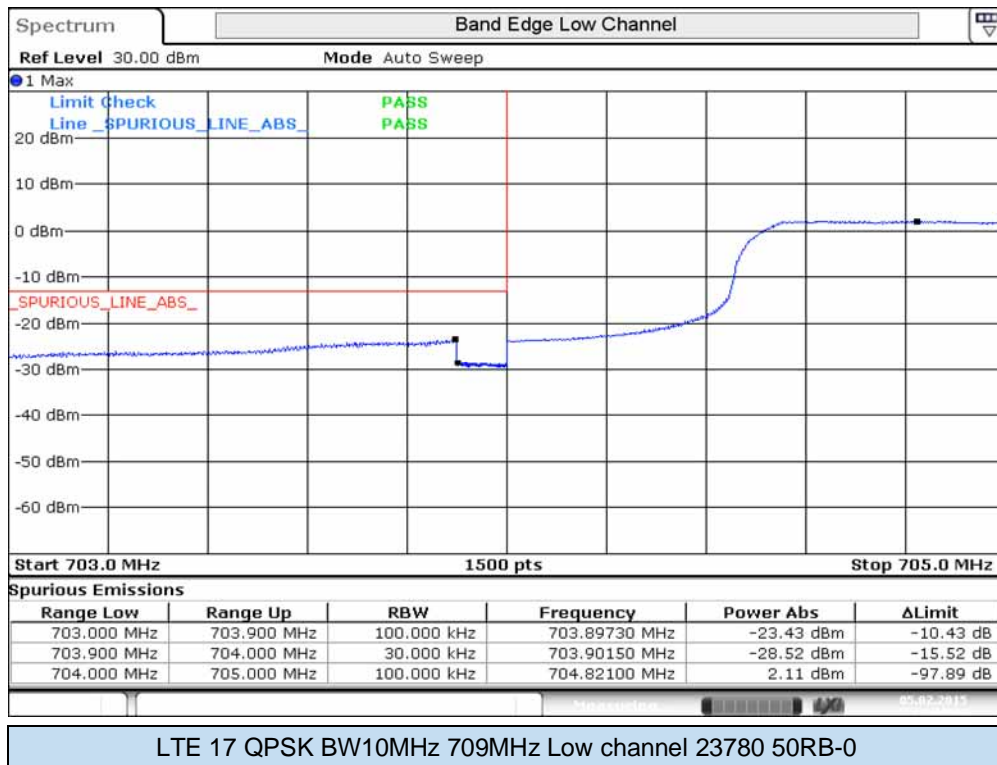
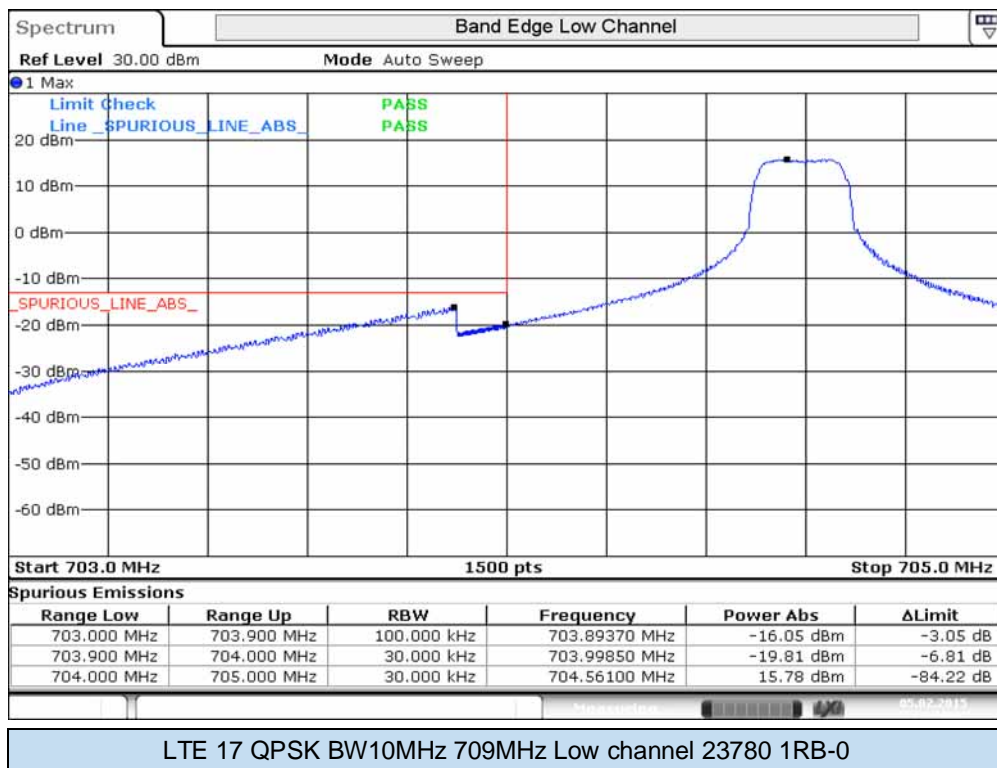


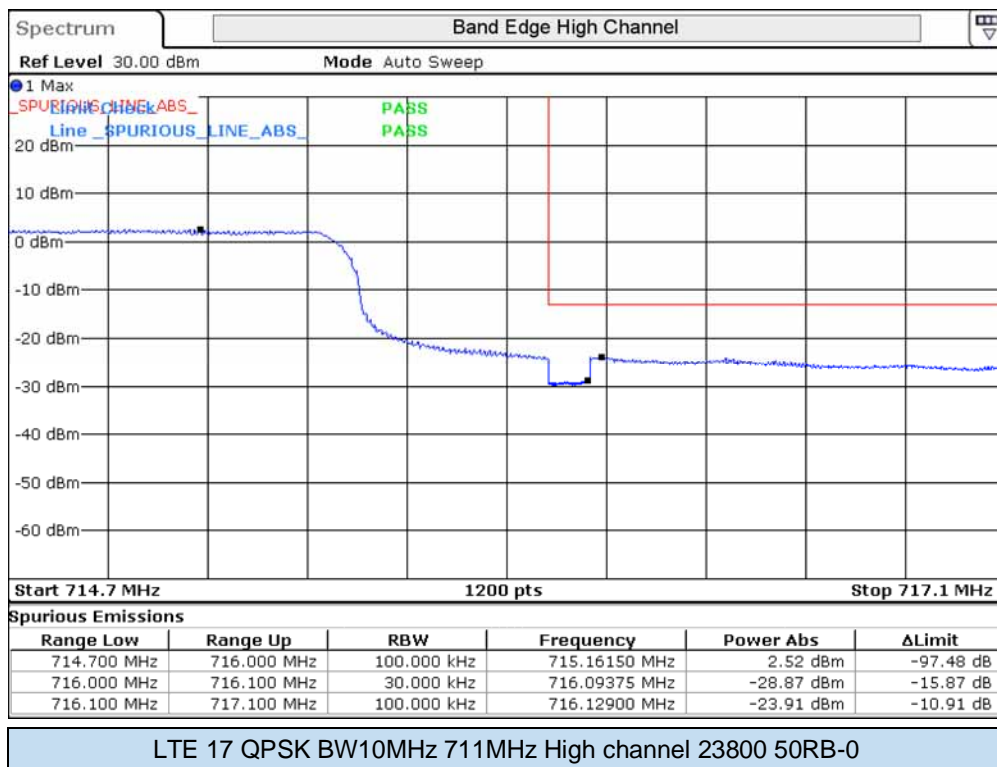
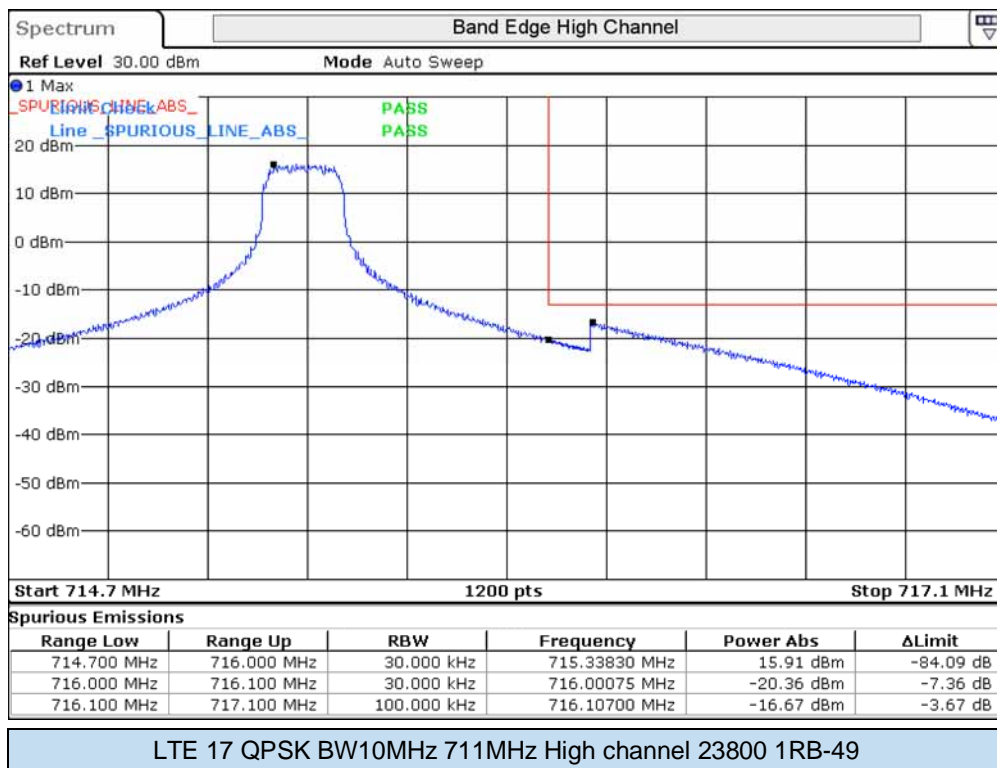


LTE17









Spurious results

GSM850,1900

Band	Mode	Modulation	Frequency Range	Max Level [dBm]	Freq [MHz]
GSM850	GPRS	GMSK	30MHz-10GHz	-38.26	6883.28
GSM1900			30MHz-10GHz	-34.14	3760.34

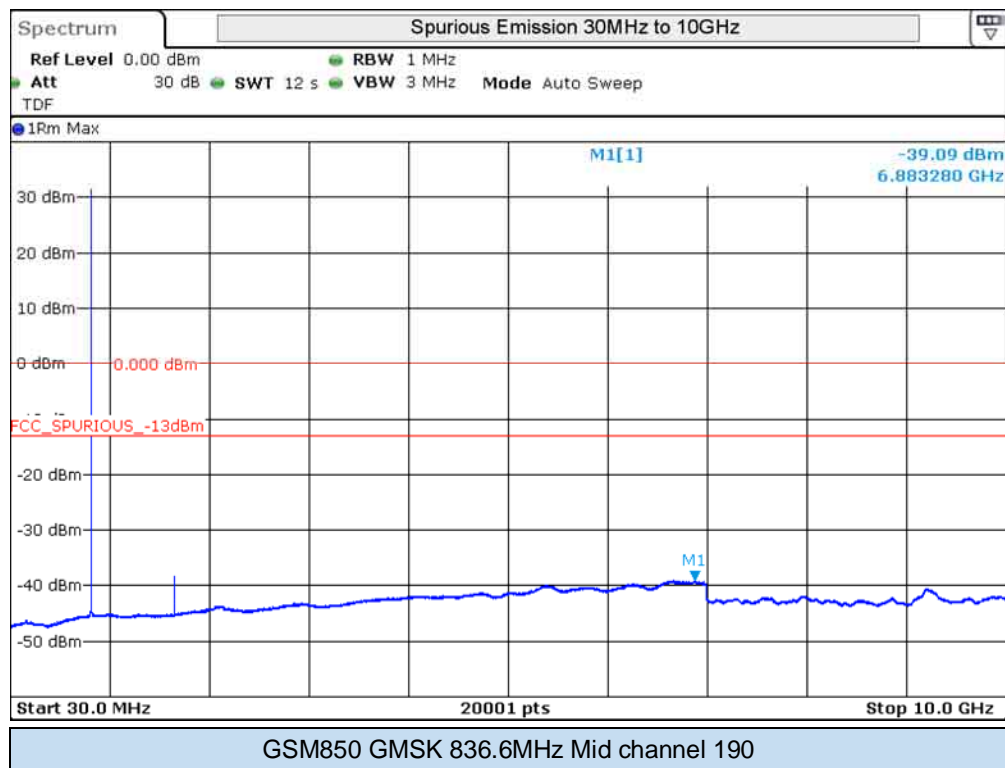
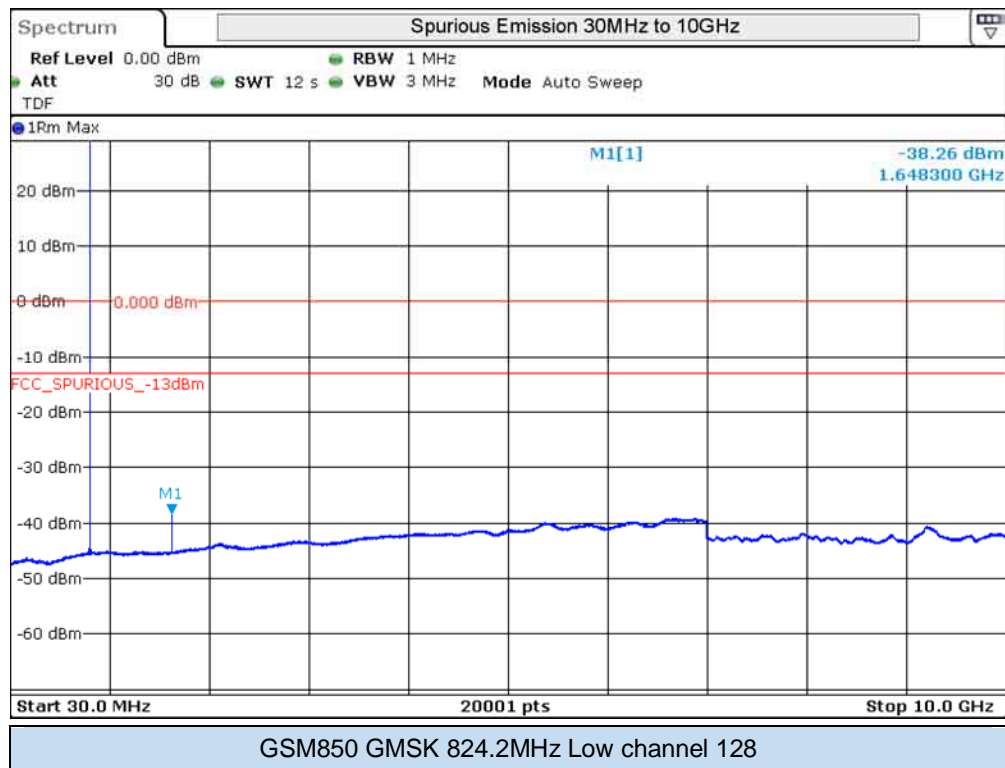
WCDMA II,IV,V

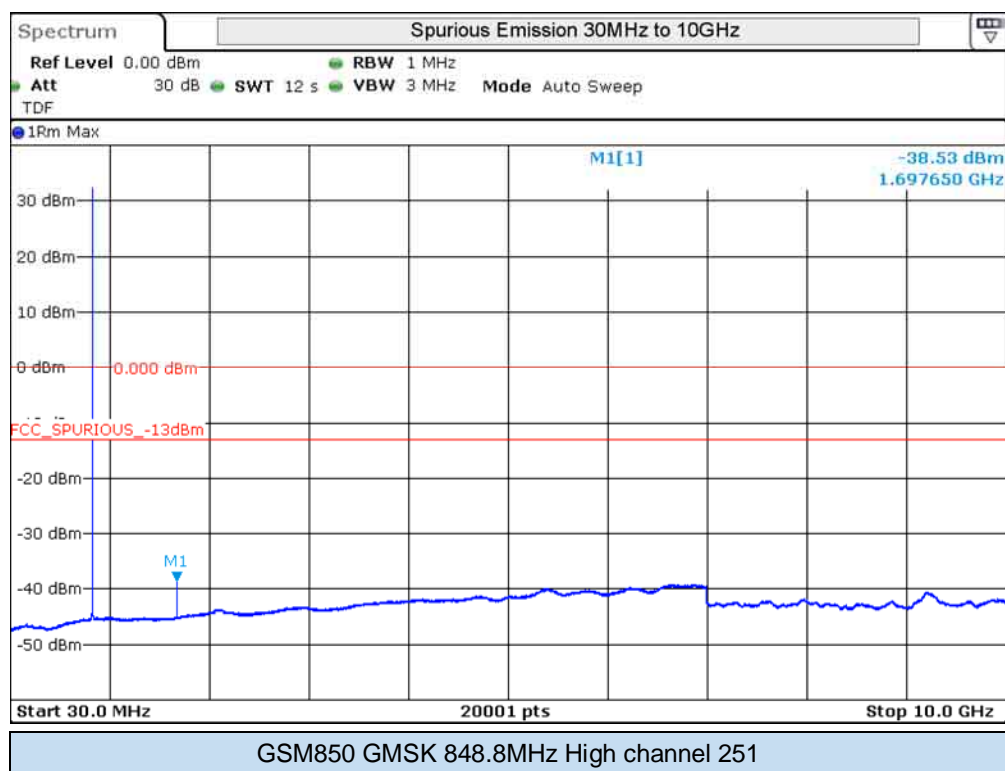
Band	Mode1	Modulation	Frequency Range	#RB	Max Level [dBm]	Freq [MHz]
WCDMA II	REL99	RMC	30MHz-20GHz		-38.00	6721.78
WCDMA IV			30MHz-20GHz		-37.79	6828.45
WCDMA V			30MHz-10GHz		-37.84	6886.77

LTE2,4,5,17

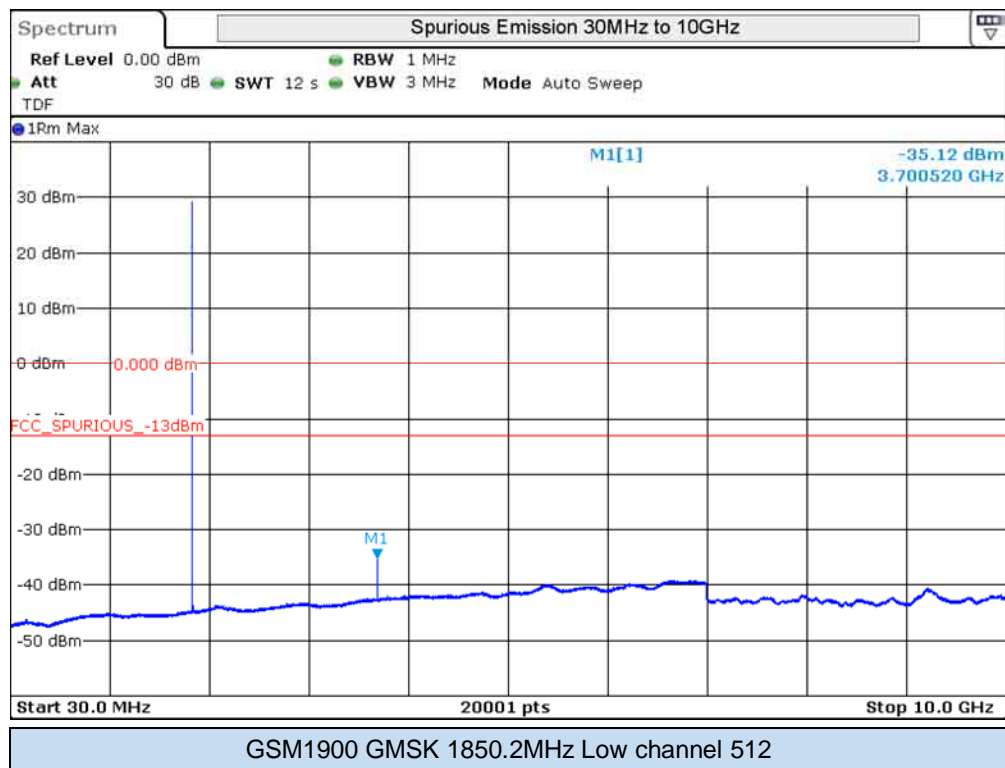
Band	BW [MHz]	Modulation	Frequency Range	#RB	Max Level [dBm]	Freq [MHz]
LTE 2	3	QPSK	30MHz-10GHz	1	-32.39	6713.80
			10GHz-20GHz	1	-37.60	19896.26
LTE 4	1.4		30MHz-10GHz	1	-32.53	6789.05
			10GHz-20GHz	1	-37.52	19828.26
LTE 5	10		30MHz-10GHz	1	-32.44	6780.10
LTE 17				1	-32.11	6574.18

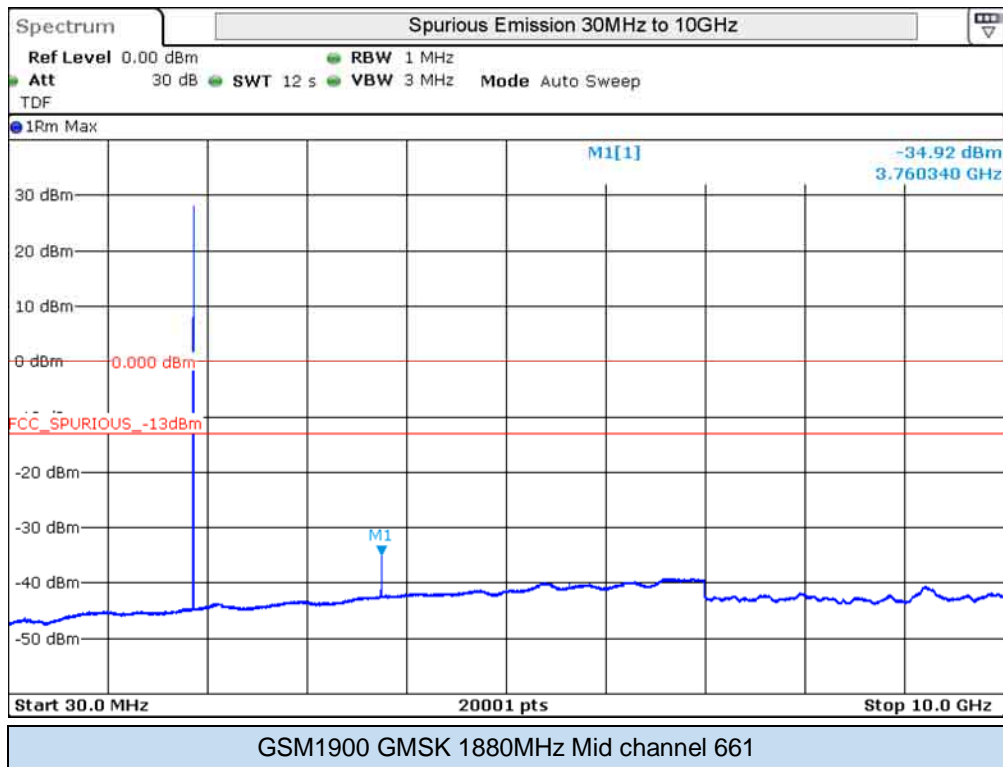
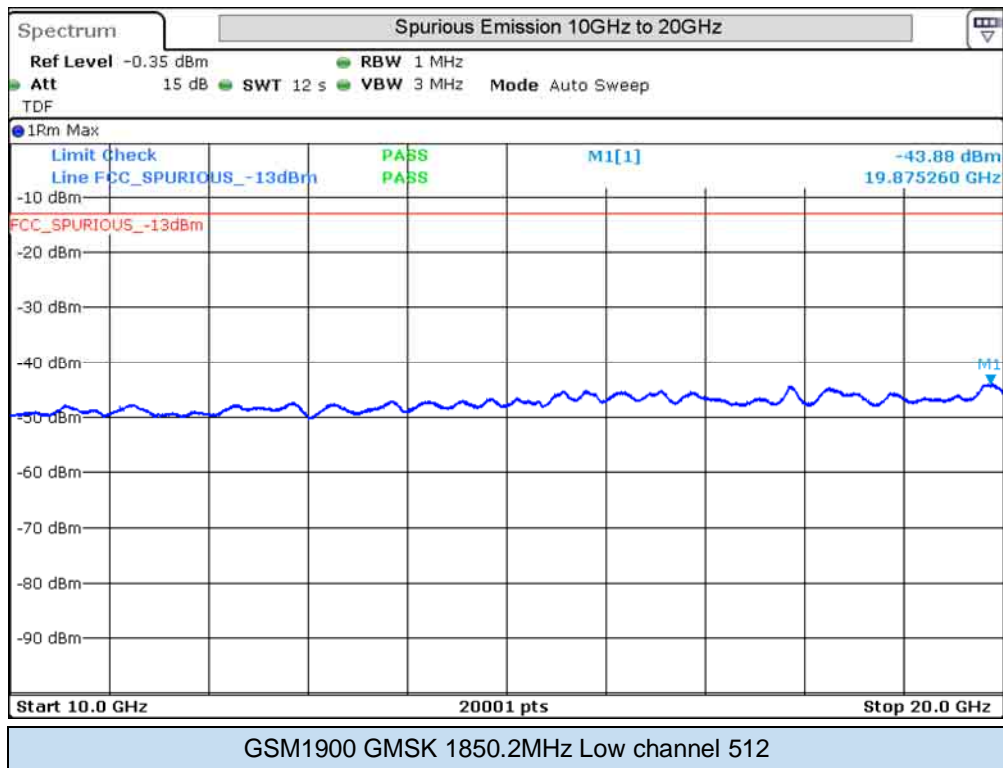
GSM850

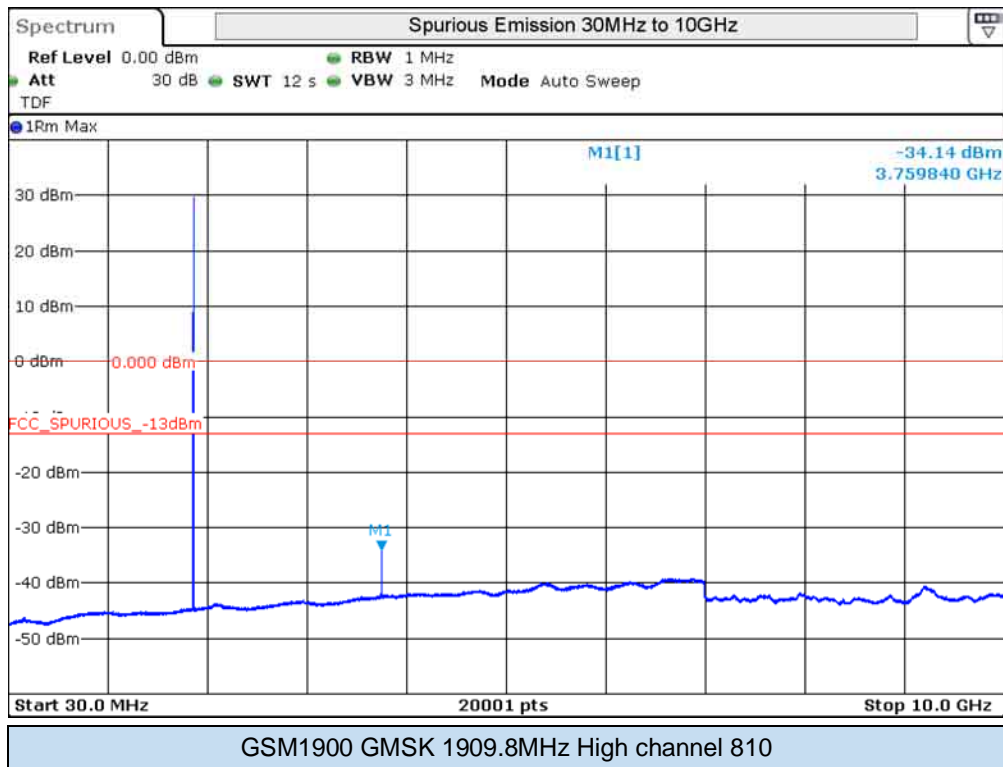
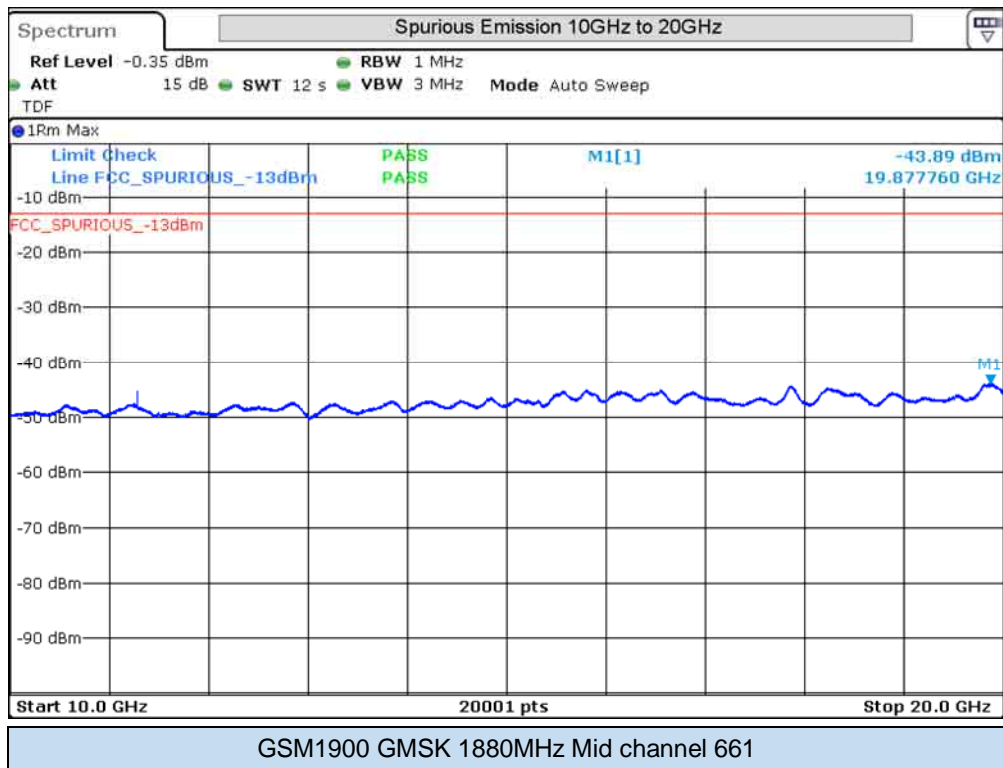


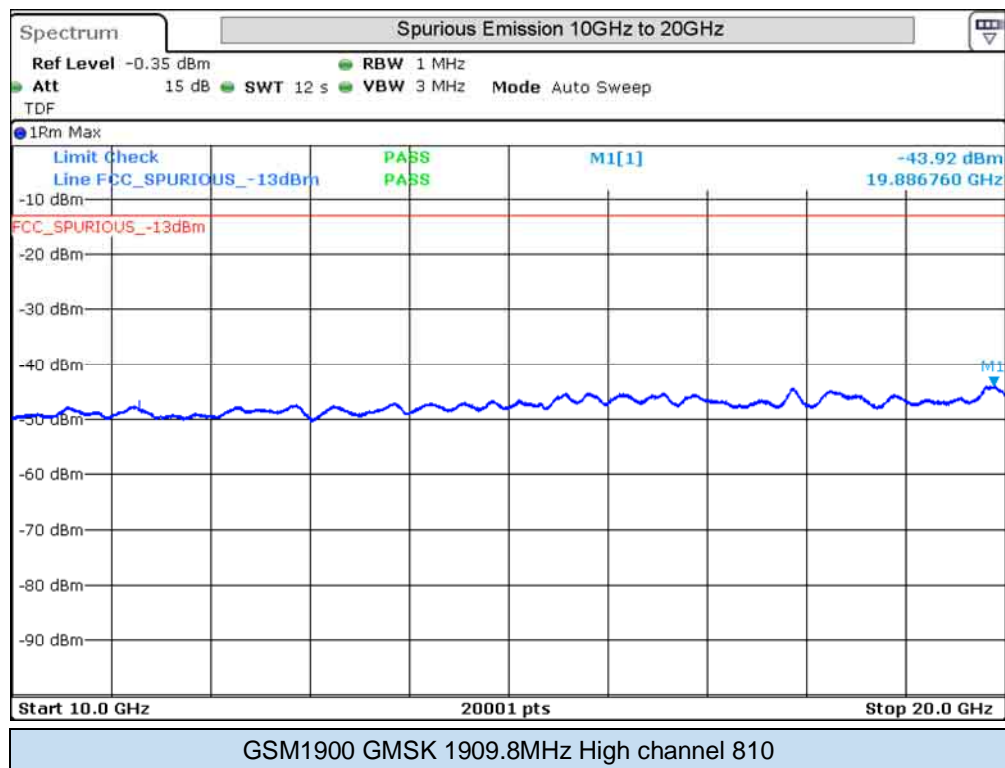


GSM1900

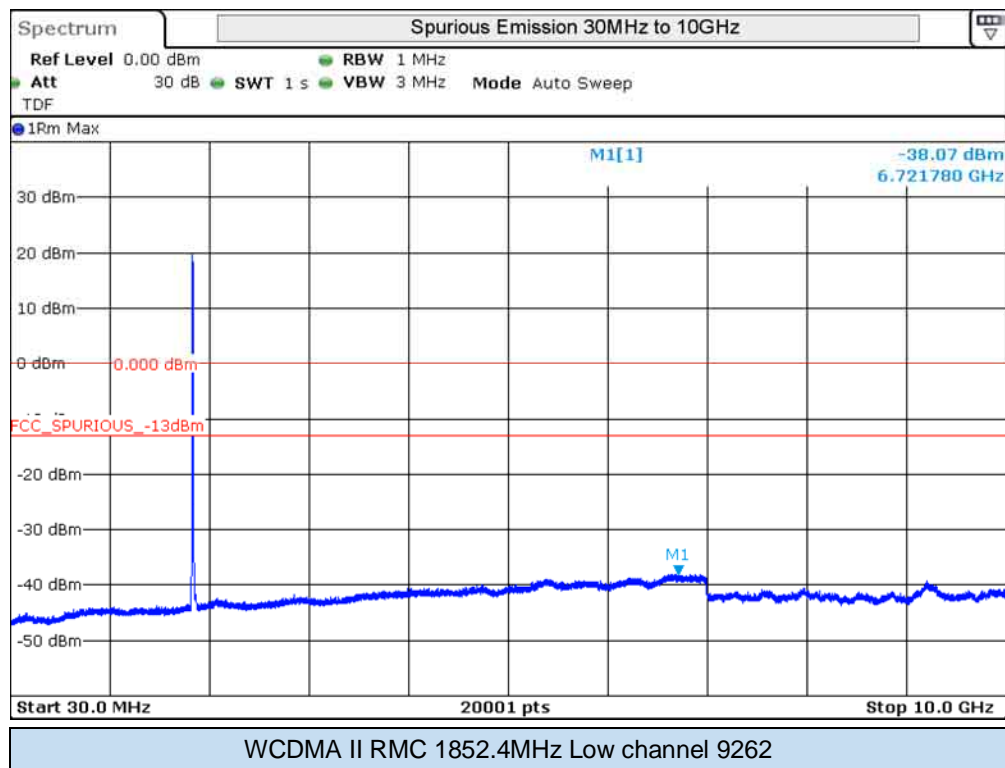


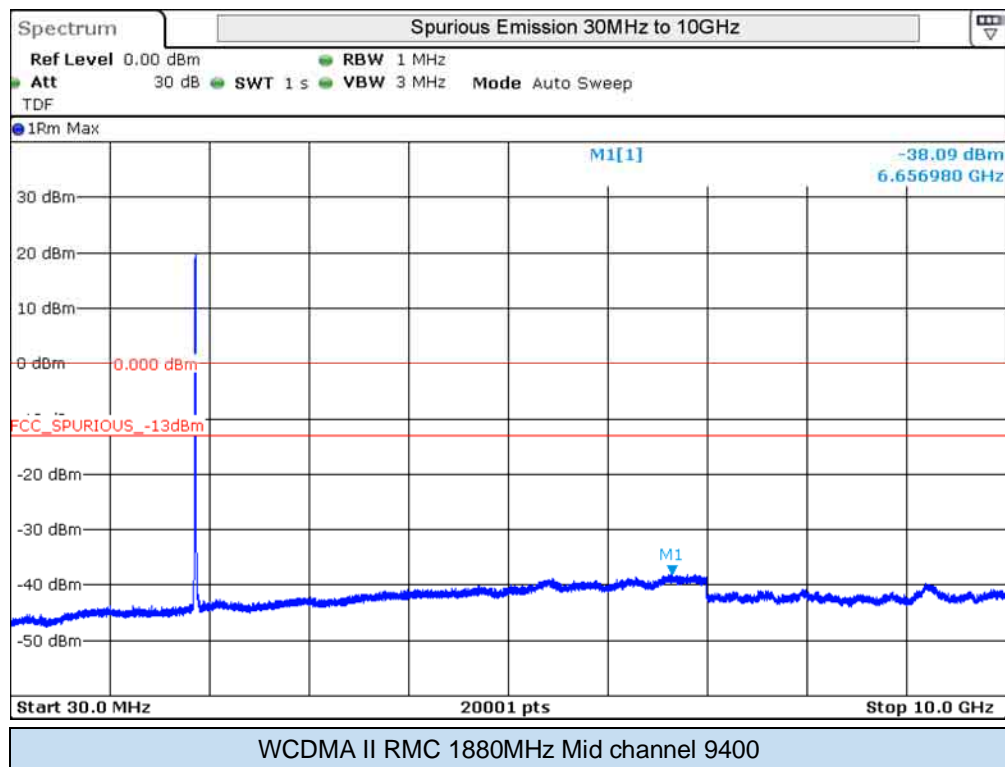
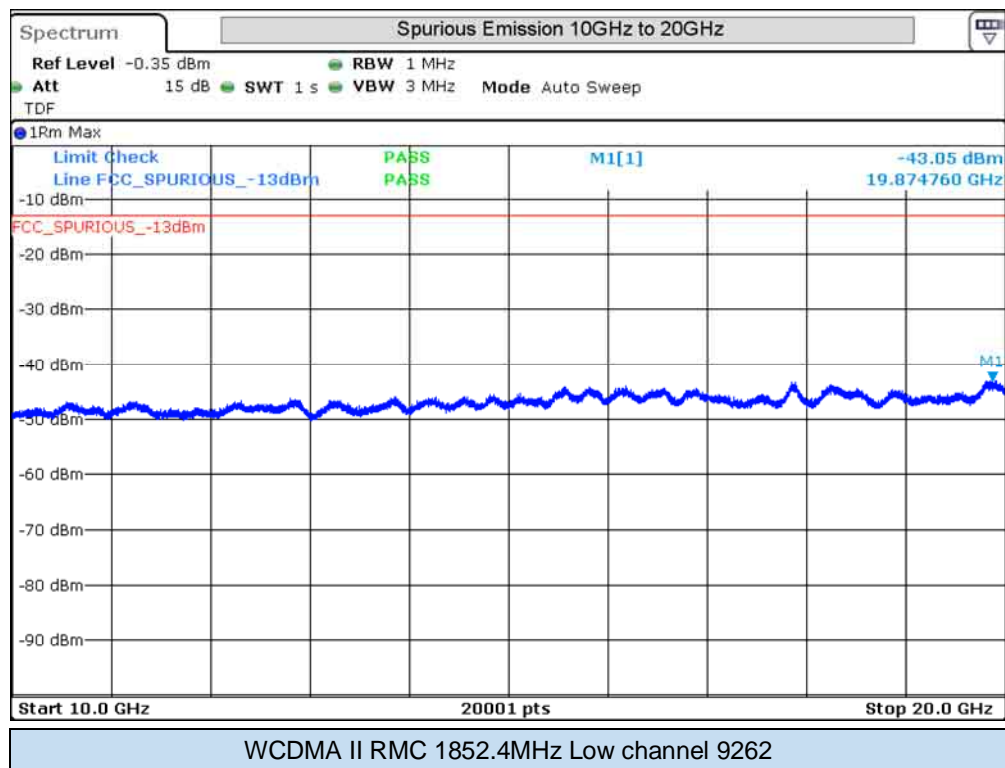


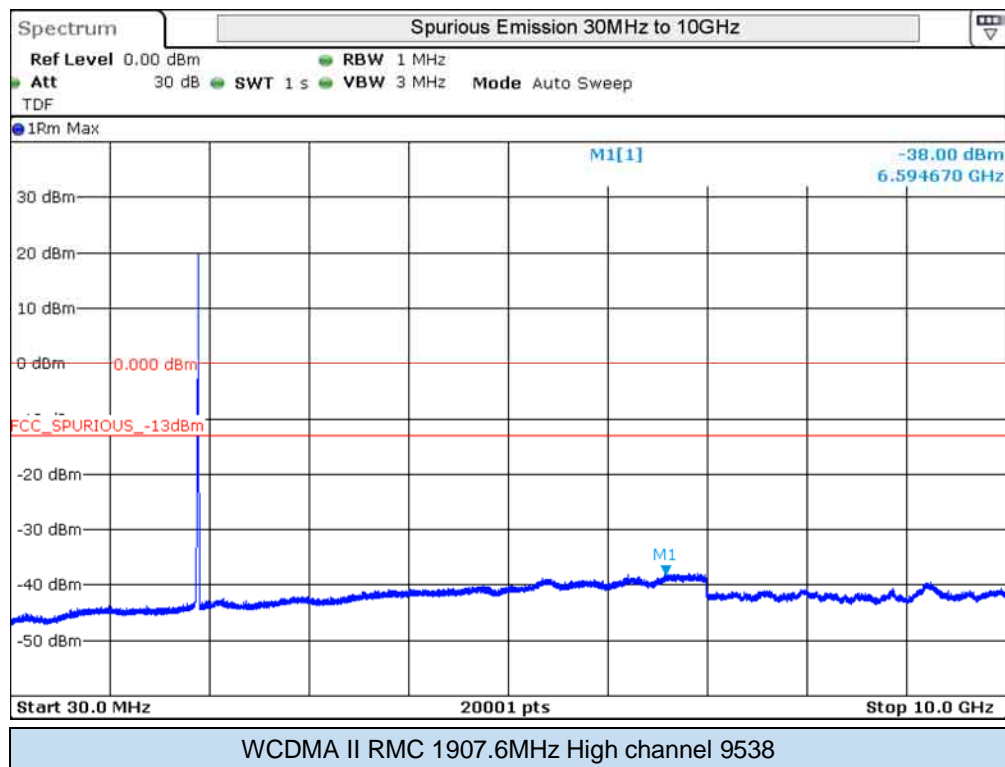
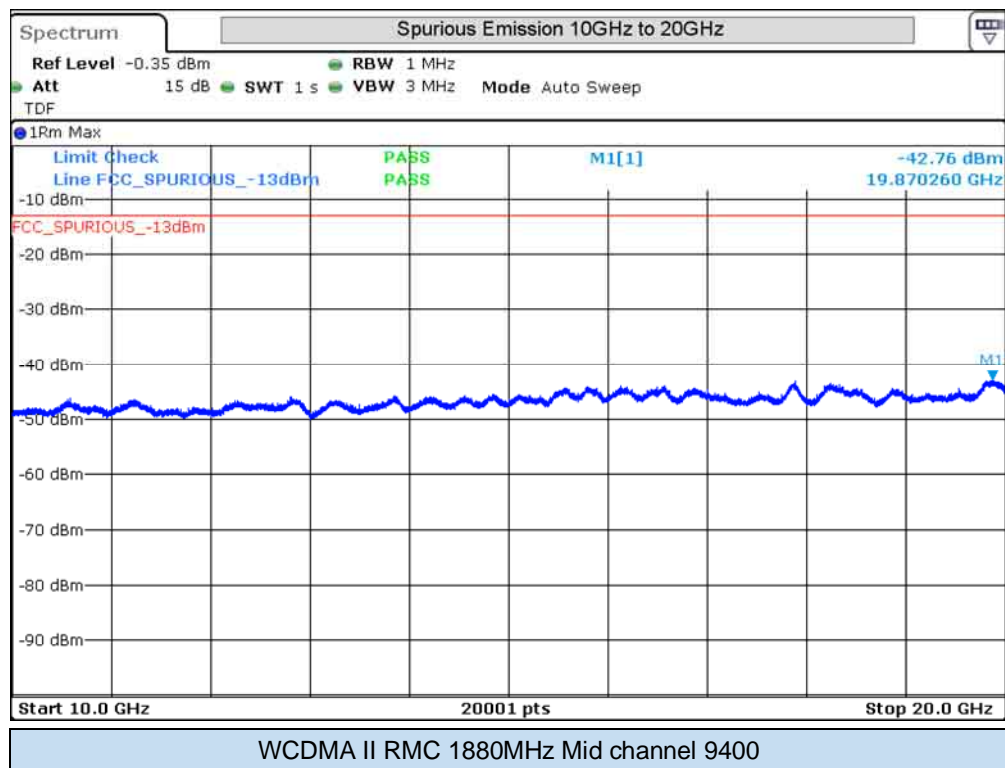


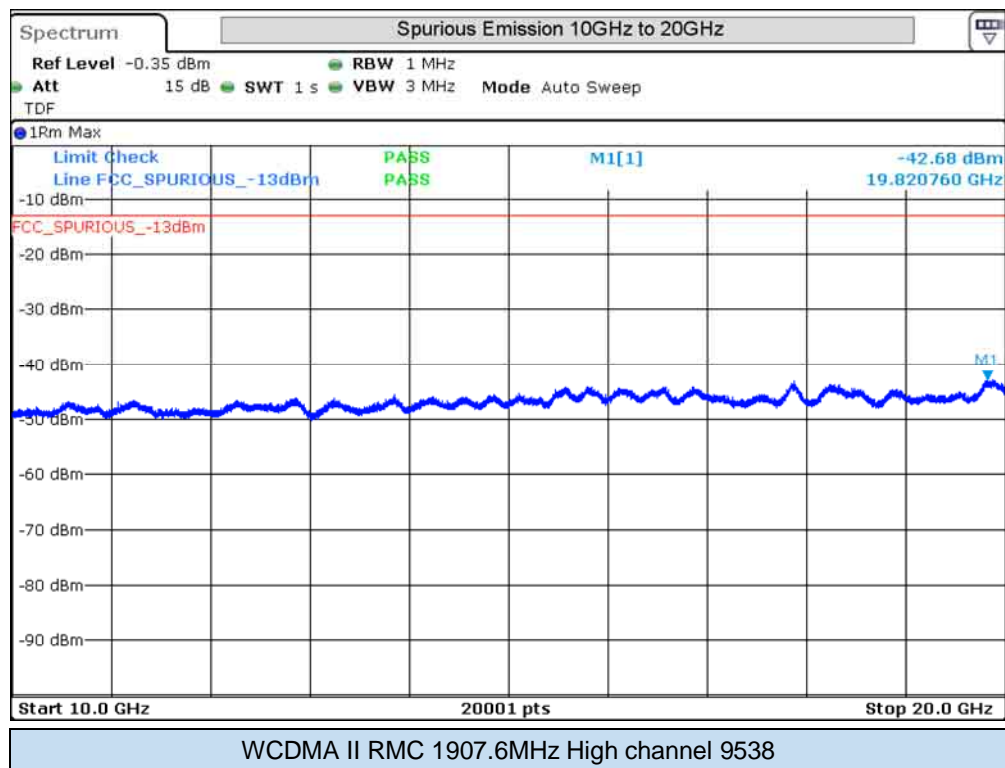


WCDMA II

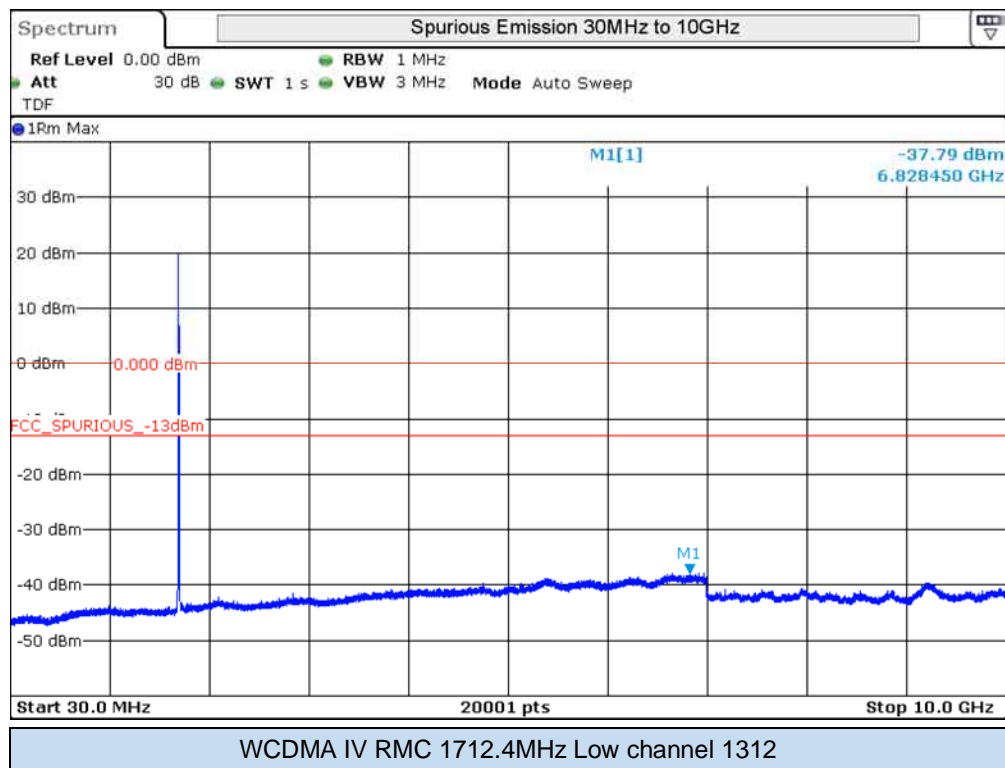


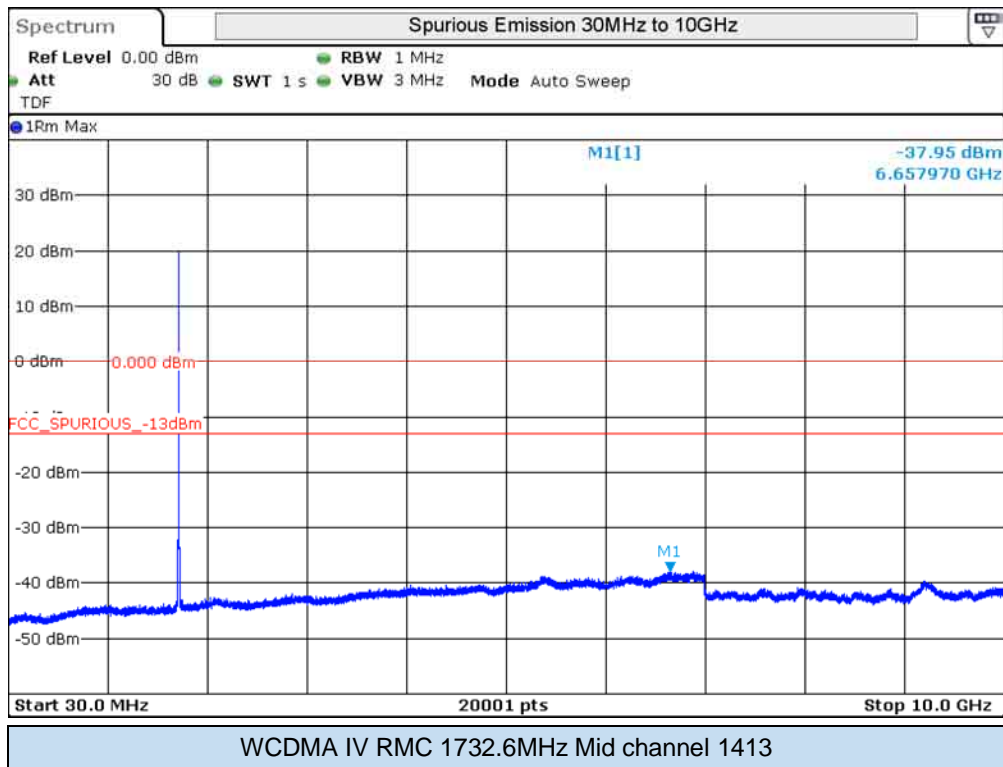
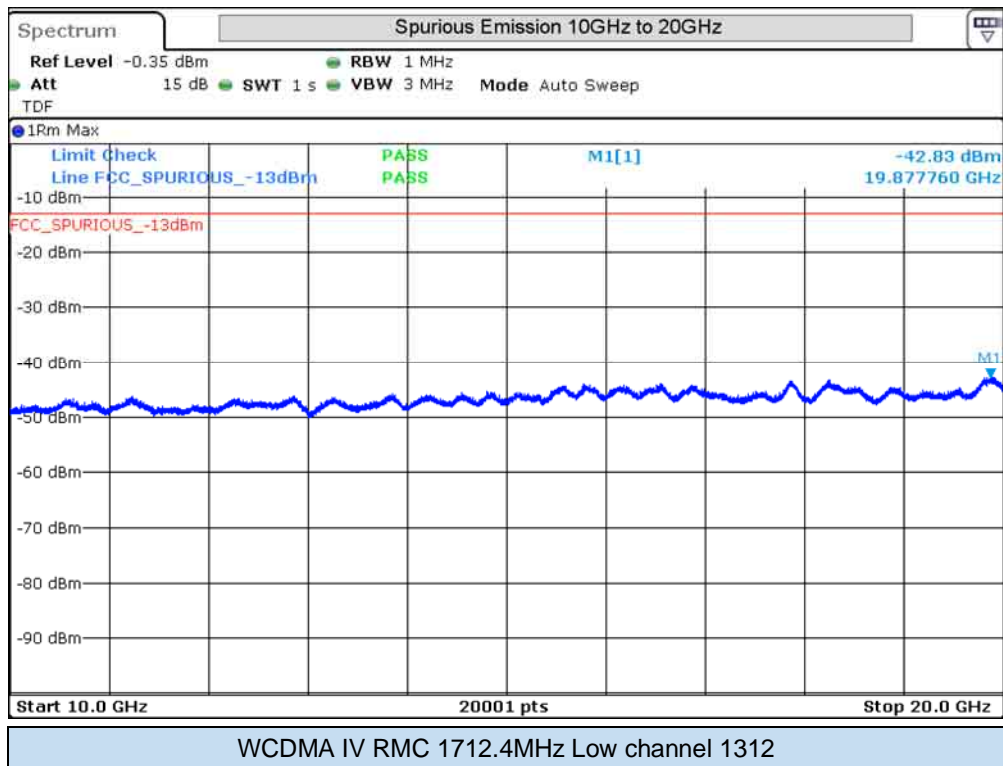


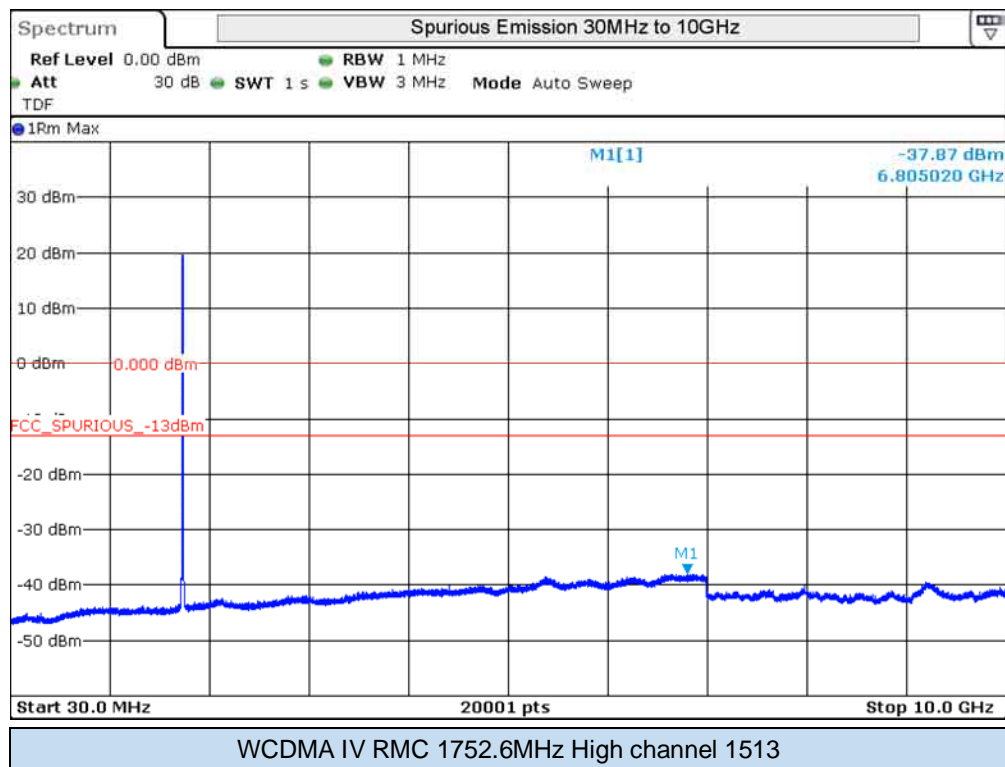
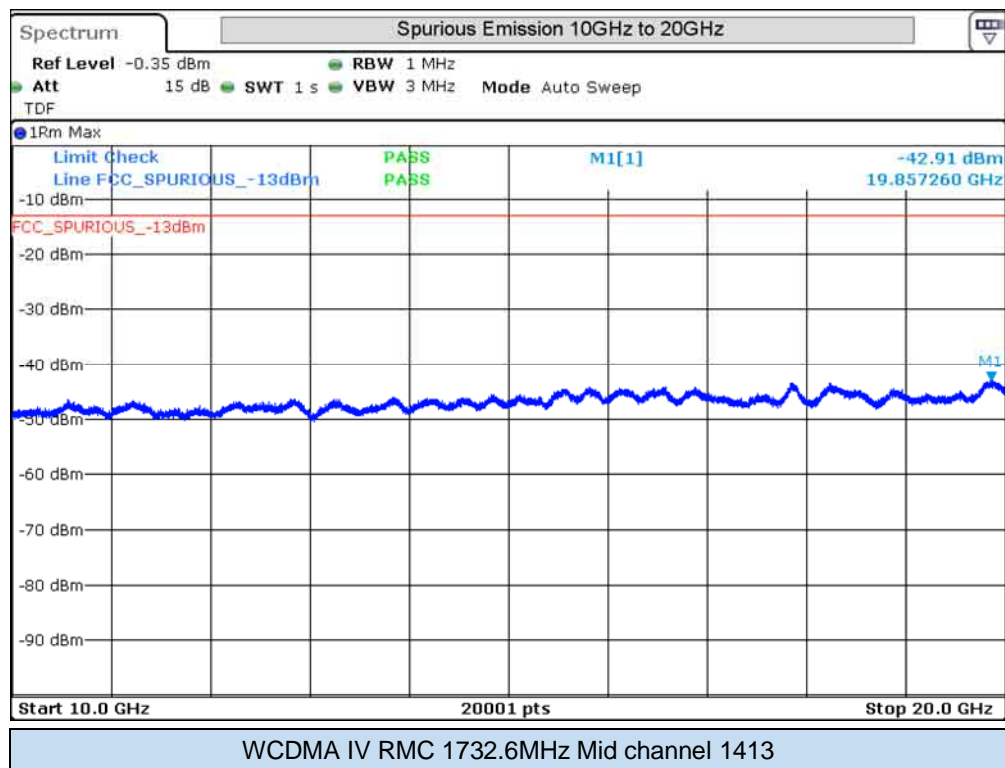


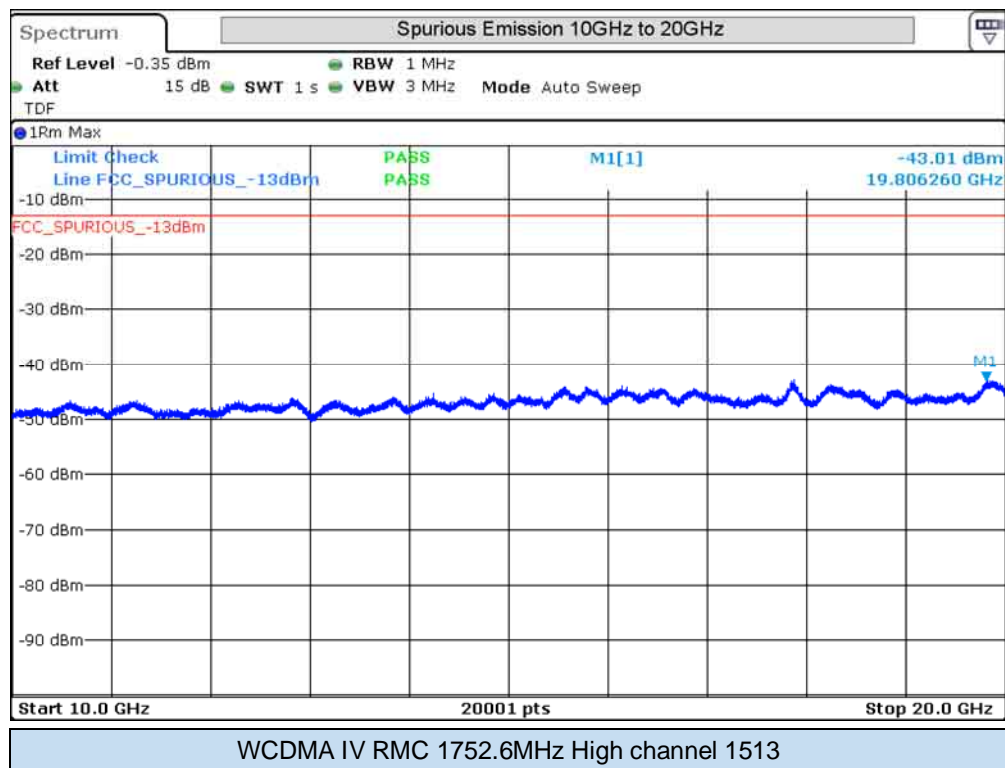


WCDMA IV

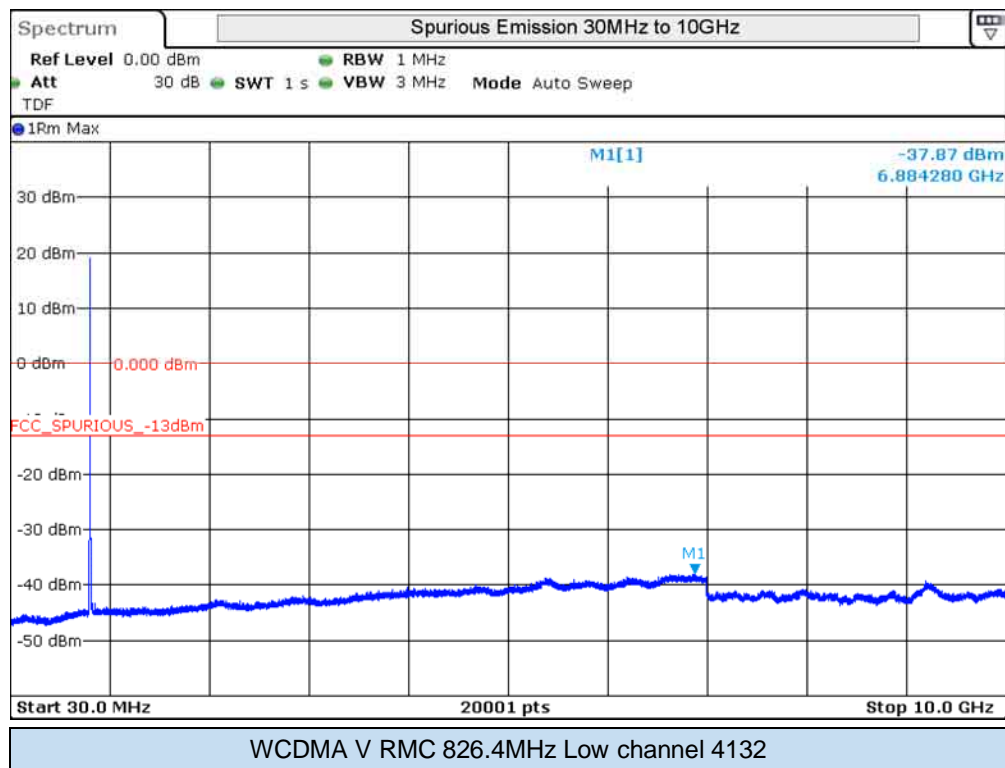


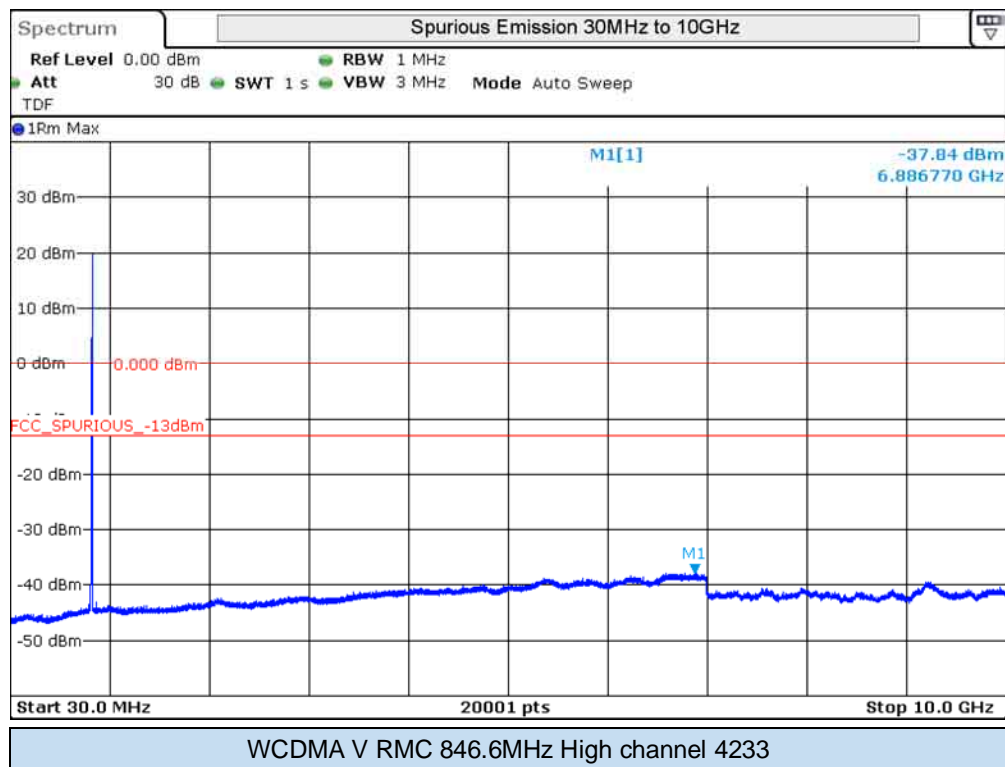
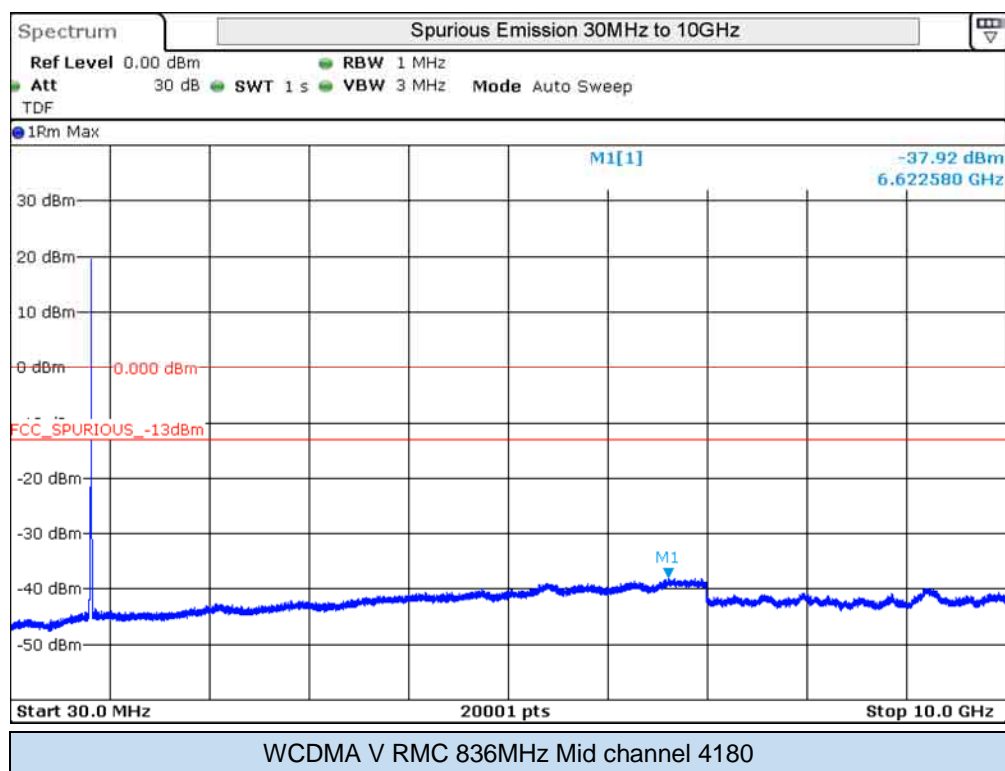




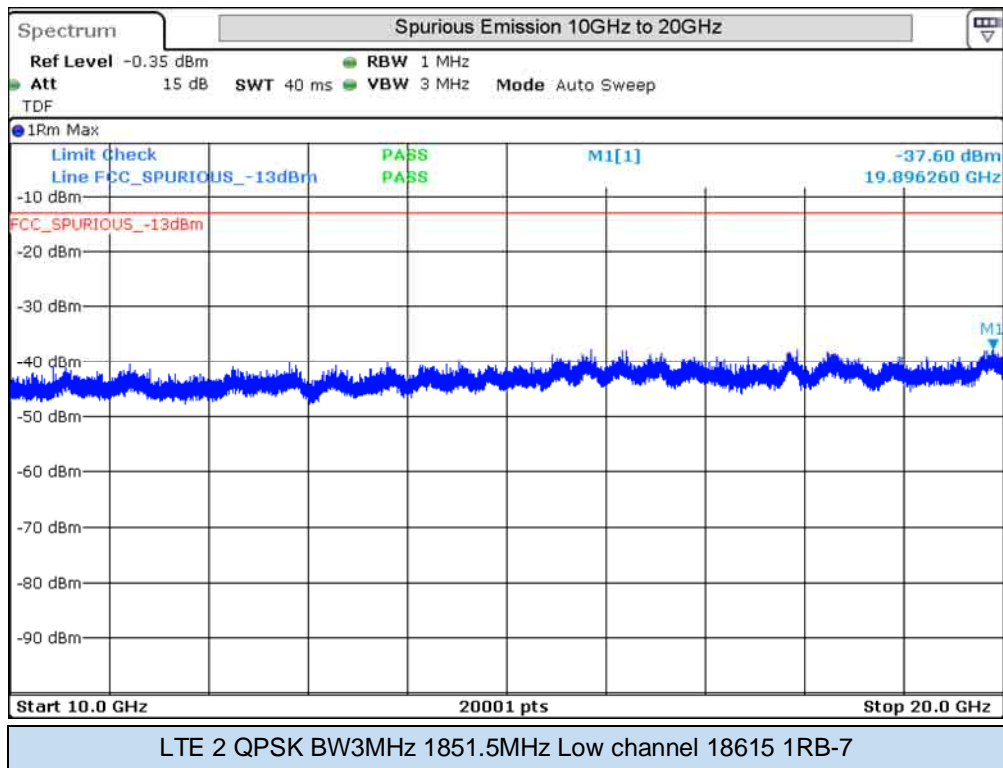
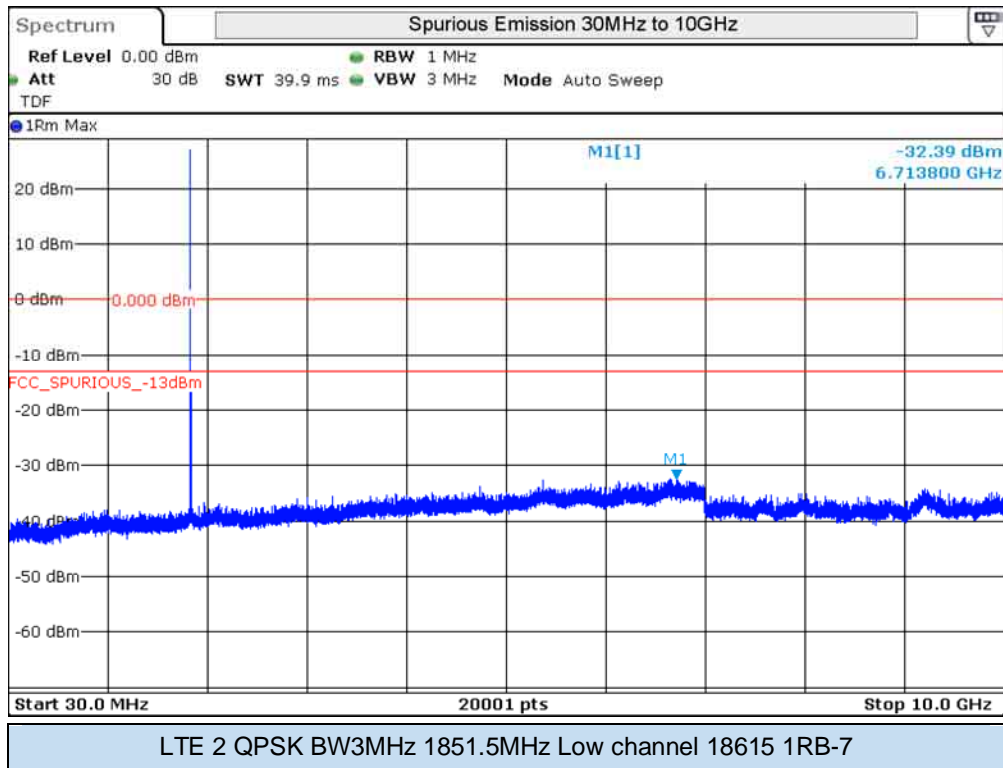


WCDMA V

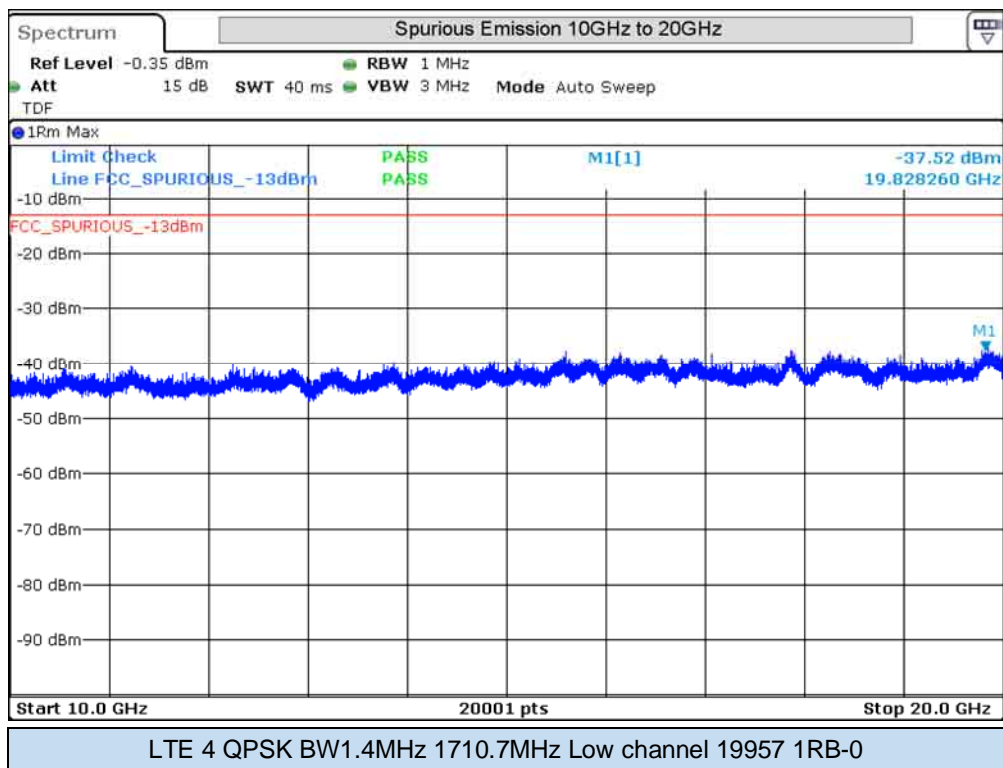
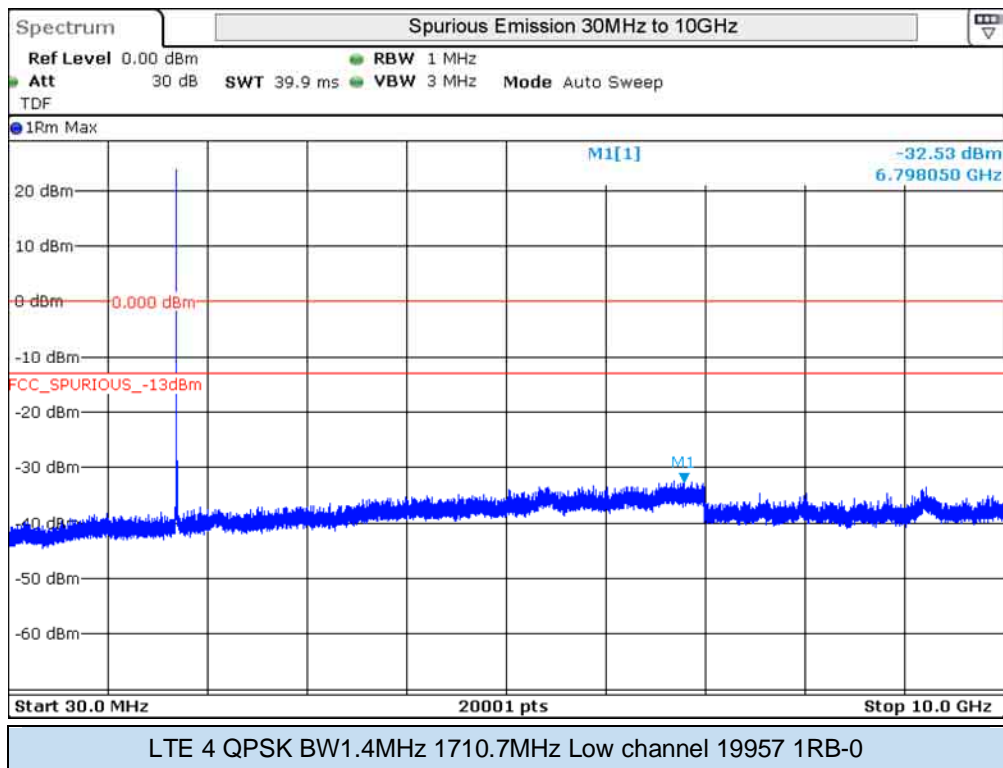




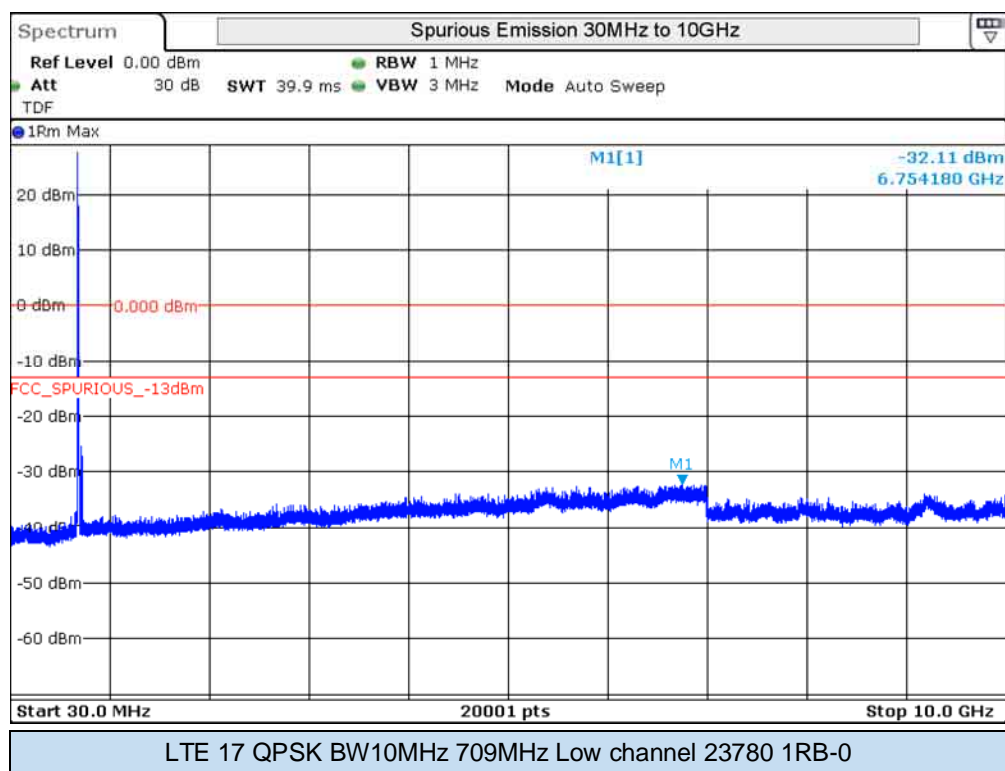
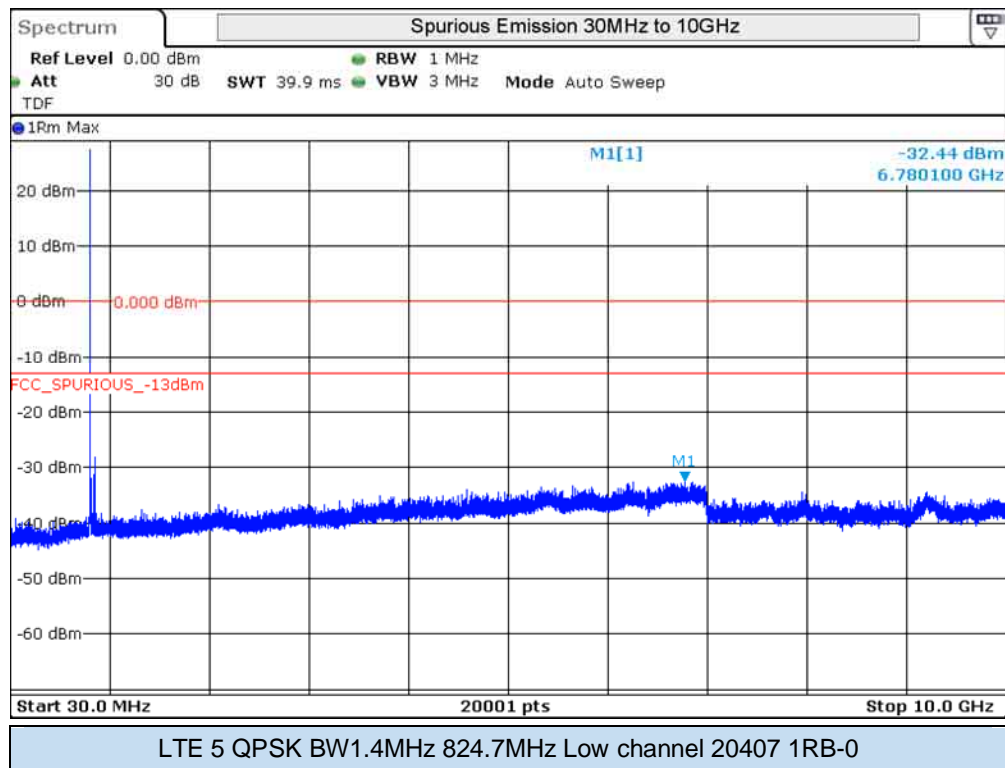
LTE 2



LTE4



LTE 17



C.1.5 Radiated spurious emissions

Test Results – LTE 2

Radiated measurement from 30MHz to 26.5 GHz

LTE 2 High channel 19186

Frequency	MaxPeak	RMS	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	cm		deg	dB
624.933333	-50.74	---	100.0	H	142.0	-94.8
624.933333	---	-62.49	100.0	H	142.0	-94.8
3816.000000	-44.24	---	150.0	V	85.0	-96.5
3816.000000	---	-51.36	150.0	V	85.0	-96.5
7632.500000	-48.03	---	150.0	V	277.0	-98.7
7632.500000	---	-55.95	150.0	V	277.0	-98.7
9539.733333	-45.04	---	150.0	V	64.0	-98.1
9539.733333	---	-55.88	150.0	V	64.0	-98.1
18089.941860	---	-52.73	150.0	V	2.0	-91.0
18090.930233	-42.65	---	150.0	H	37.0	-91.0

Test Results – LTE 4

Radiated measurement from 30MHz to 18 GHz

LTE 4 High channel 20386

Frequency	MaxPeak	RMS	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	cm		deg	dB
624.933333	---	-62.49	100.0	H	207.0	-94.8
626.550000	-50.11	---	100.0	H	284.0	-95.0
3505.277778	-42.47	---	300.0	H	17.0	-97.0
3506.222222	---	-50.40	300.0	H	313.0	-97.0
8764.466667	---	-48.66	150.0	V	132.0	-98.1
8765.433333	-41.51	---	150.0	V	124.0	-98.1
10518.000000	---	-57.59	150.0	V	73.0	-98.1
10518.000000	-46.17	---	150.0	V	73.0	-98.1

Test Results – LTE 5
Radiated measurement from 30MHz to 18GHz

LTE 5 High channel 20635

Frequency	MaxPeak	RMS	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	cm		deg	dB
625.095000	-36.97	---	100.0	H	0.0	-64.5
625.871000	---	-44.71	100.0	H	277.0	-64.6
6369.142857	---	-52.21	300.0	V	305.0	-91.5
6391.321429	-42.17	---	150.0	V	318.0	-91.5
8764.466667	---	-48.66	150.0	V	132.0	-98.1
8765.433333	-41.51	---	150.0	V	124.0	-98.1
10518.000000	---	-57.59	150.0	V	73.0	-98.1
10518.000000	-46.17	---	150.0	V	73.0	-98.1

Test Results – LTE 17
Radiated measurement from 30MHz to 18GHz

LTE 17 Mid channel 23790

Frequency	MaxPeak	RMS	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	cm		deg	dB
626.938000	---	-44.27	250.0	H	118.0	-64.8
627.229000	-37.93	---	250.0	H	124.0	-64.8
1414.642857	-47.98	---	150.0	V	52.0	-105.2
1415.607143	---	-54.09	150.0	V	219.0	-105.2
2568.892857	---	-54.71	150.0	V	351.0	-100.7
2568.892857	-46.00	---	150.0	V	351.0	-100.7
17970.033333	-37.61	---	300.0	H	73.0	-83.7
17980.666667	---	-47.13	300.0	H	22.0	-83.5