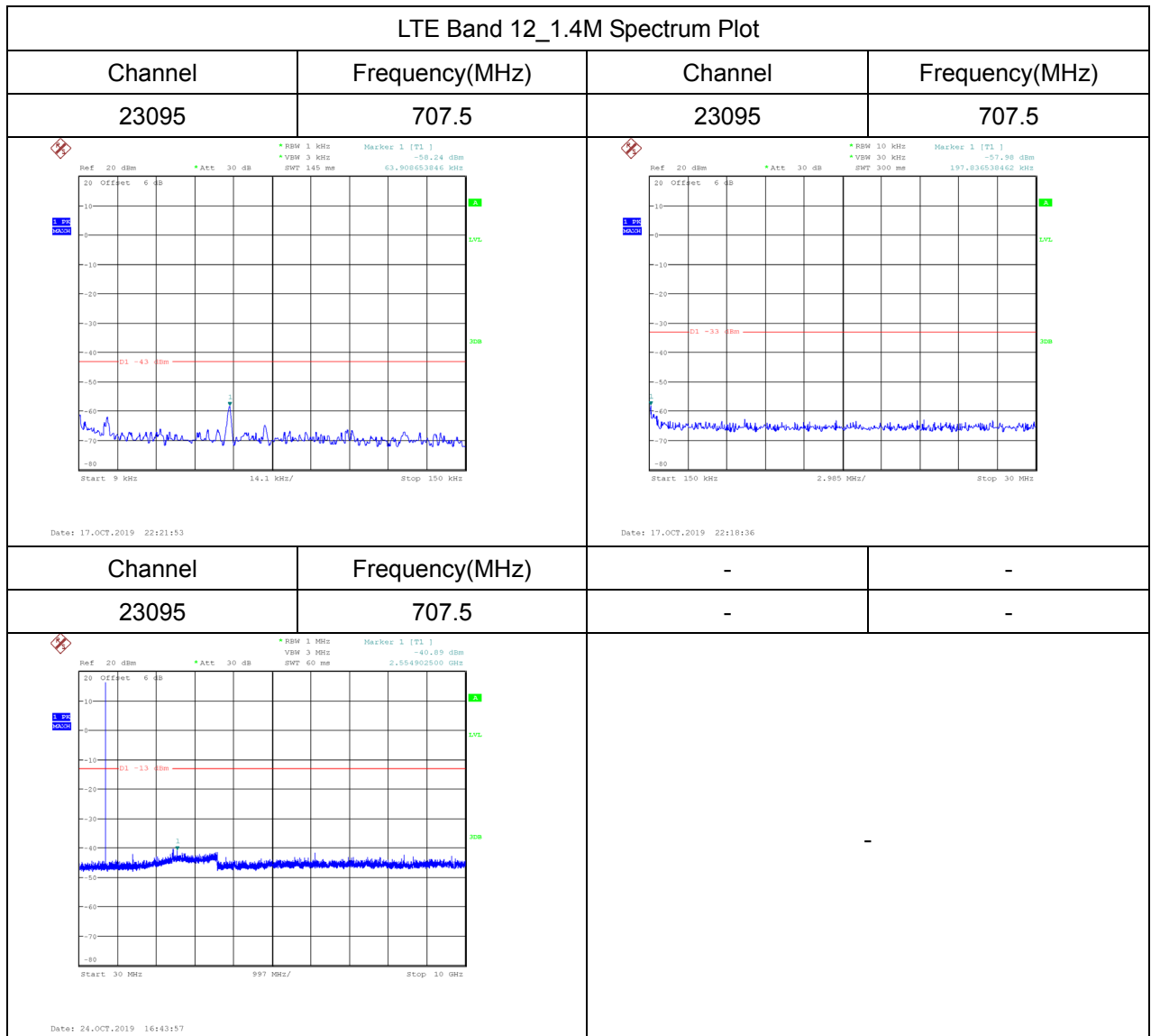
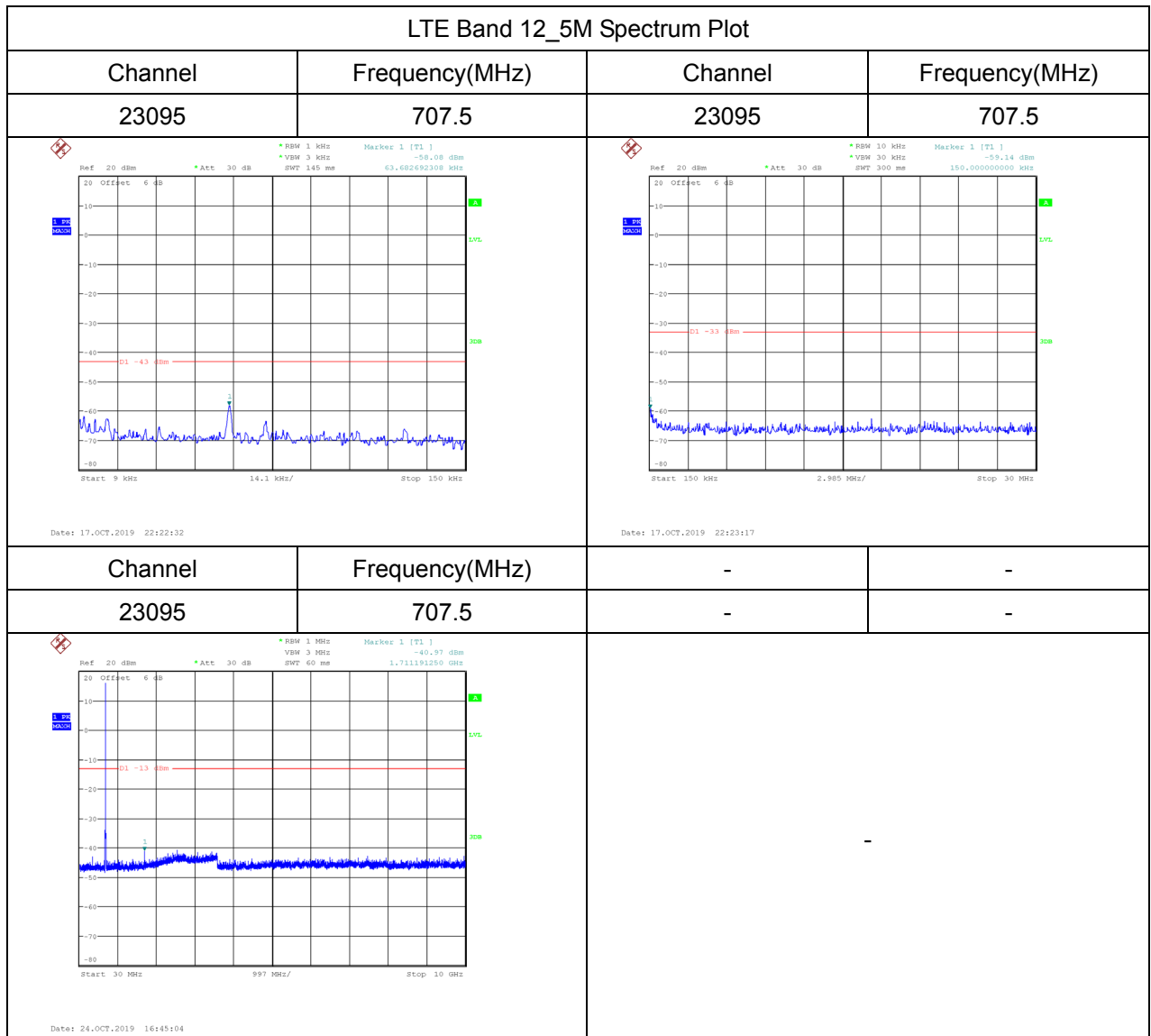
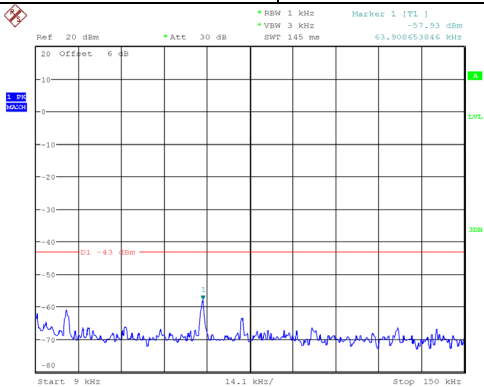
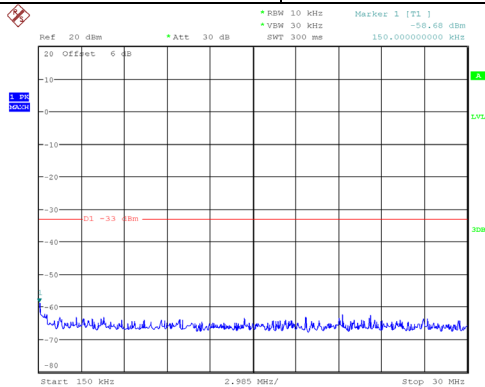
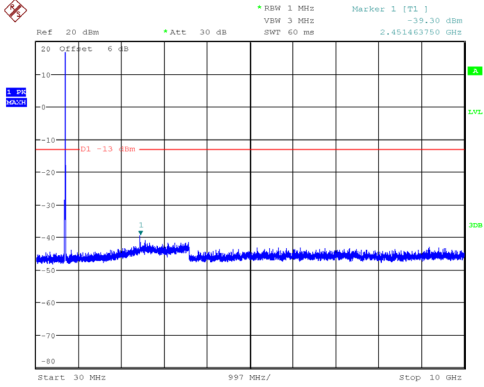




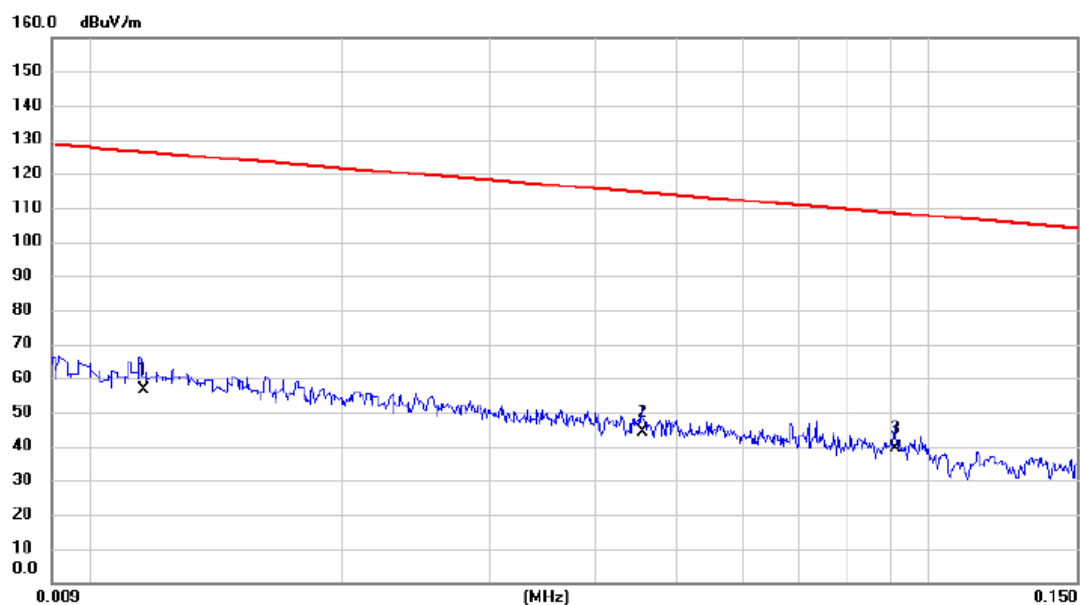


LTE Band 12_10M Spectrum Plot			
Channel	Frequency(MHz)	Channel	Frequency(MHz)
23095	707.5	23095	707.5
 Ref: 20 dBm *Att: 30 dB *FSW: 1 kHz *VSW: 3 kHz *SFT: 145 ms Marker 1 [T1] -57.33 dBm 63.908653846 kHz Start: 9 kHz 14.1 kHz/ Stop: 150 kHz Date: 17.OCT.2019 22:29:34		 Ref: 20 dBm *Att: 30 dB *FSW: 10 kHz *VSW: 30 kHz *SFT: 300 ms Marker 1 [T1] -56.48 dBm 150.000000000 kHz Start: 150 kHz 2.985 MHz/ Stop: 30 MHz Date: 17.OCT.2019 22:29:01	
Channel	Frequency(MHz)	-	-
23095	707.5	-	-
 Ref: 20 dBm *Att: 30 dB *FSW: 1 MHz *VSW: 3 MHz *SFT: 60 ms Marker 1 [T1] -39.30 dBm 2.451463750 GHz Start: 30 MHz 997 MHz/ Stop: 30 GHz Date: 24.OCT.2019 16:46:22		-	

APPENDIX D - RADIATED SPURIOUS EMISSIONS (9KHZ TO 30MHZ)

Test Mode	TX Mode
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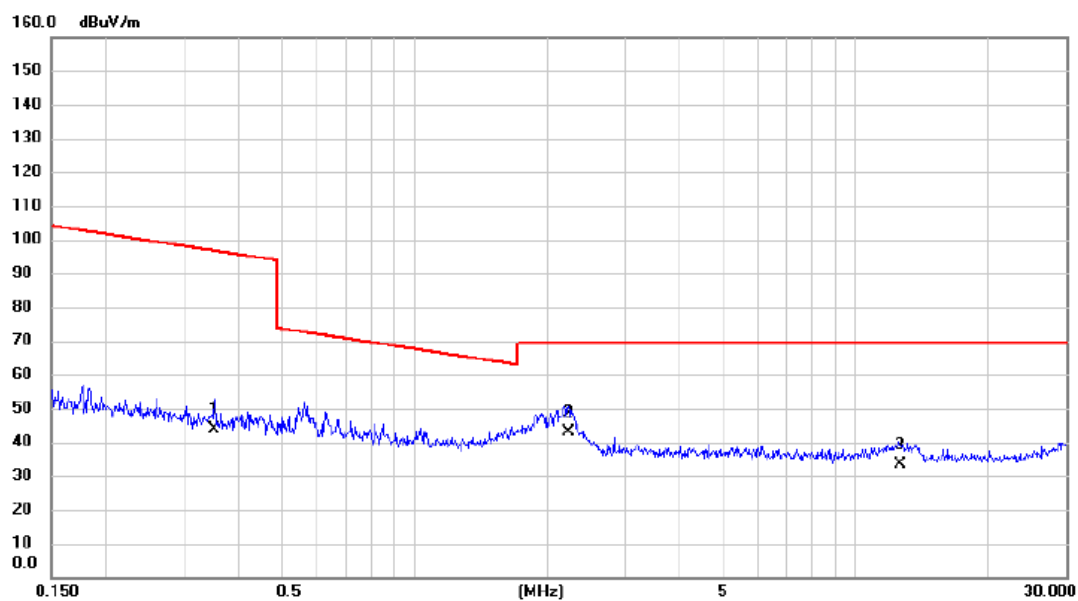
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0116	40.20	16.34	56.54	126.32	-69.78	AVG	
2		0.0456	30.12	13.92	44.04	114.43	-70.39	AVG	
3	*	0.0912	25.69	13.54	39.23	108.41	-69.18	QP	

Test Mode	TX Mode
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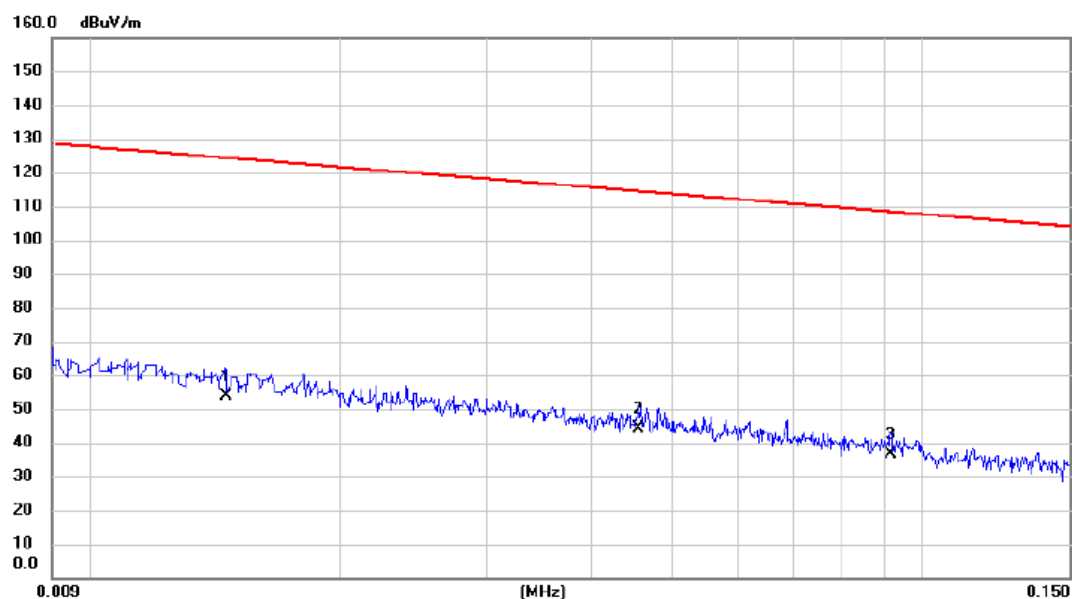
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.3520	30.25	13.42	43.67	96.67	-53.00	AVG	
2	*	2.2367	31.45	11.68	43.13	69.54	-26.41	QP	
3		12.5821	21.84	11.60	33.44	69.54	-36.10	QP	

Test Mode	TX Mode
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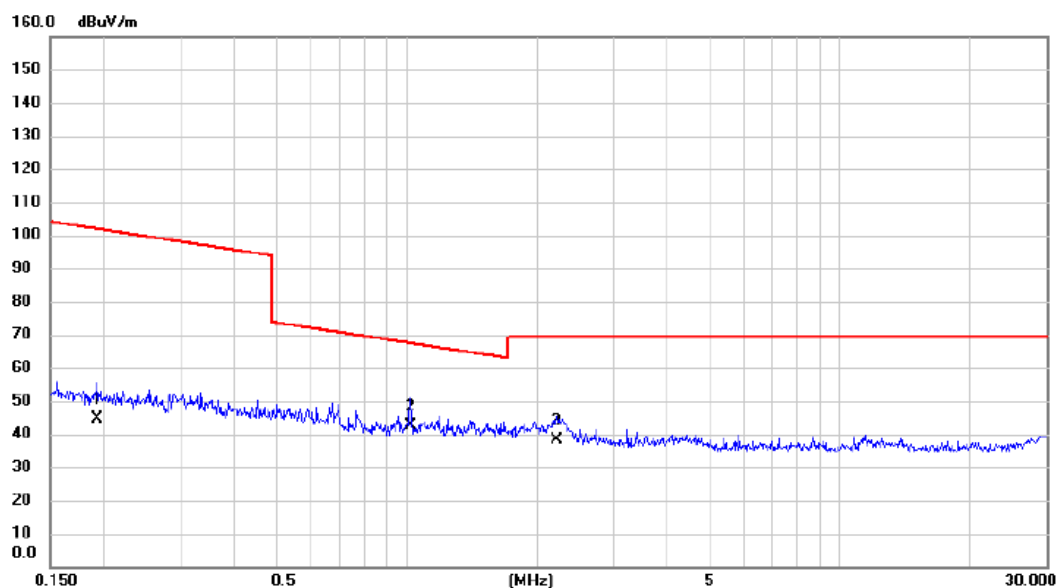
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0146	38.45	15.44	53.89	124.32	-70.43	AVG	
2	*	0.0456	30.47	13.92	44.39	114.43	-70.04	AVG	
3		0.0916	22.90	13.54	36.44	108.37	-71.93	QP	

Test Mode	TX Mode
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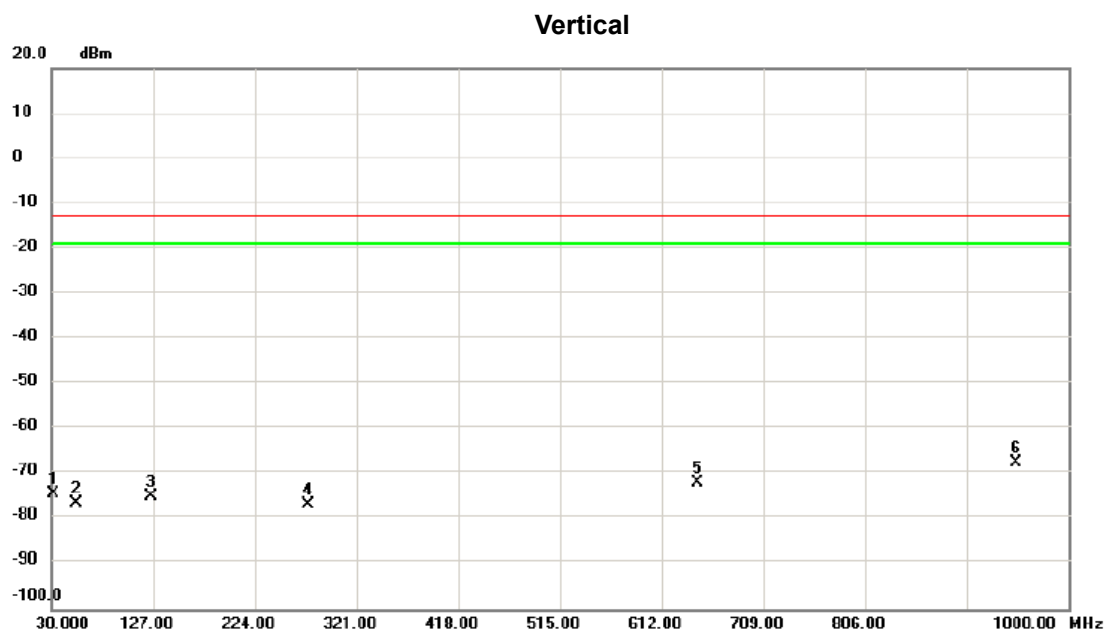
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.1934	31.15	13.60	44.75	101.88	-57.13	AVG	
2	*	1.0211	30.25	12.49	42.74	67.42	-24.68	QP	
3		2.2250	26.49	11.68	38.17	69.54	-31.37	QP	

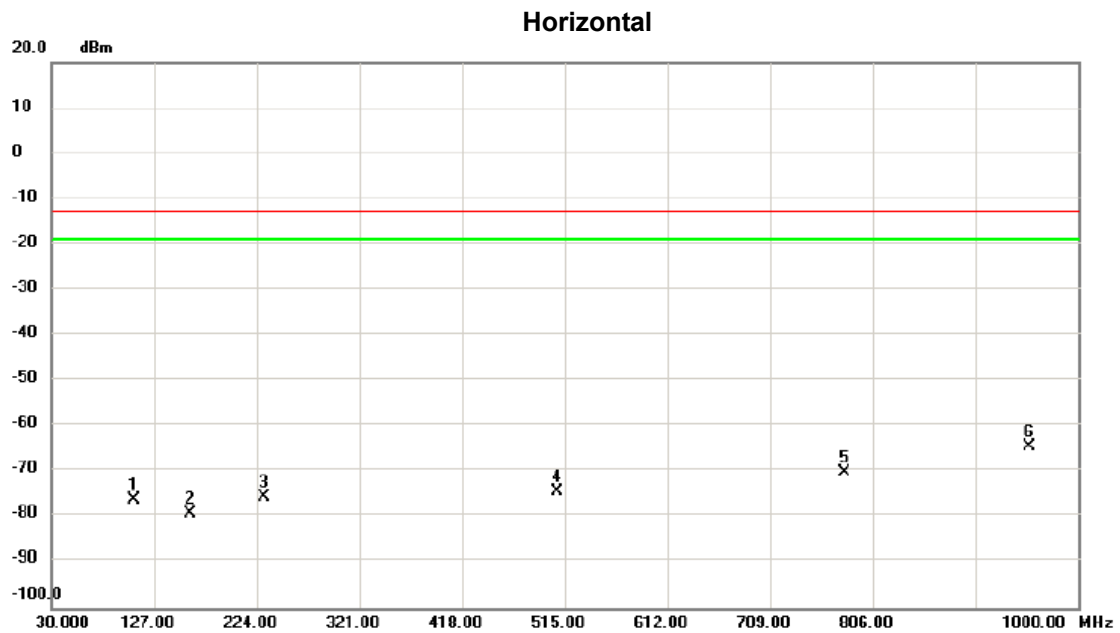
APPENDIX E - RADIATED SPURIOUS EMISSIONS (30MHZ TO 1GHZ)

Test Mode	LTE Band 4_TX CH20175_1.4M
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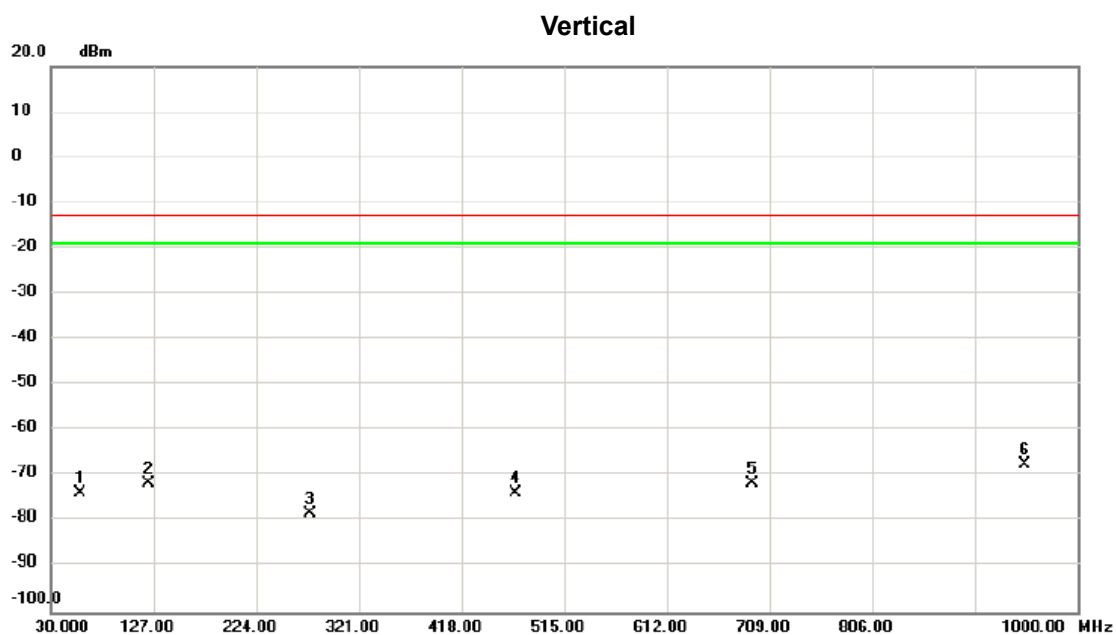
No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		31.940	-59.43	-14.81	-74.24	-13.00	-61.24	peak	
2		53.280	-62.61	-13.96	-76.57	-13.00	-63.57	peak	
3		125.060	-61.81	-13.10	-74.91	-13.00	-61.91	peak	
4		274.440	-63.83	-12.95	-76.78	-13.00	-63.78	peak	
5		645.950	-67.04	-4.80	-71.84	-13.00	-58.84	peak	
6	*	950.530	-66.82	-0.70	-67.52	-13.00	-54.52	peak	

Test Mode	LTE Band 4_TX CH20175_1.4M
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No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		108.570	-61.59	-14.68	-76.27	-13.00	-63.27	peak	
2		160.950	-68.10	-11.20	-79.30	-13.00	-66.30	peak	
3		230.790	-61.18	-14.30	-75.48	-13.00	-62.48	peak	
4		507.240	-66.75	-7.69	-74.44	-13.00	-61.44	peak	
5		778.840	-66.85	-3.29	-70.14	-13.00	-57.14	peak	
6	*	953.440	-63.81	-0.65	-64.46	-13.00	-51.46	peak	

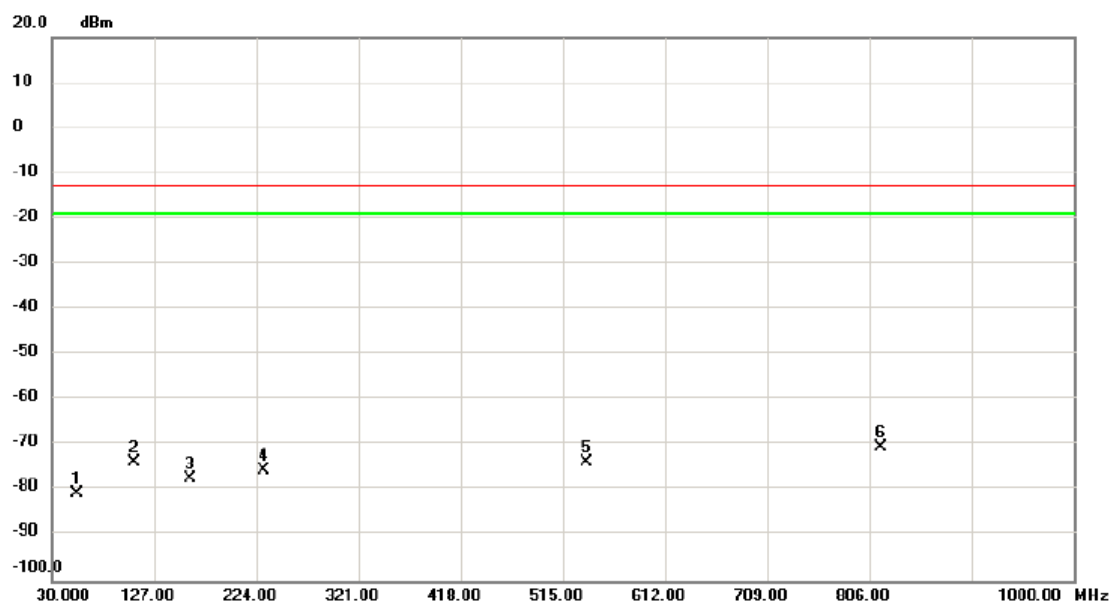
Test Mode	LTE Band 4_TX CH20175_5M
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No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	58.130	-58.96	-14.68	-73.64	-13.00	-60.64	peak	
2	122.150	-58.62	-13.10	-71.72	-13.00	-58.72	peak	
3	274.440	-65.33	-12.95	-78.28	-13.00	-65.28	peak	
4	469.410	-65.74	-7.99	-73.73	-13.00	-60.73	peak	
5	692.510	-67.60	-4.13	-71.73	-13.00	-58.73	peak	
6 *	950.530	-66.82	-0.70	-67.52	-13.00	-54.52	peak	

Test Mode	LTE Band 4_TX CH20175_5M
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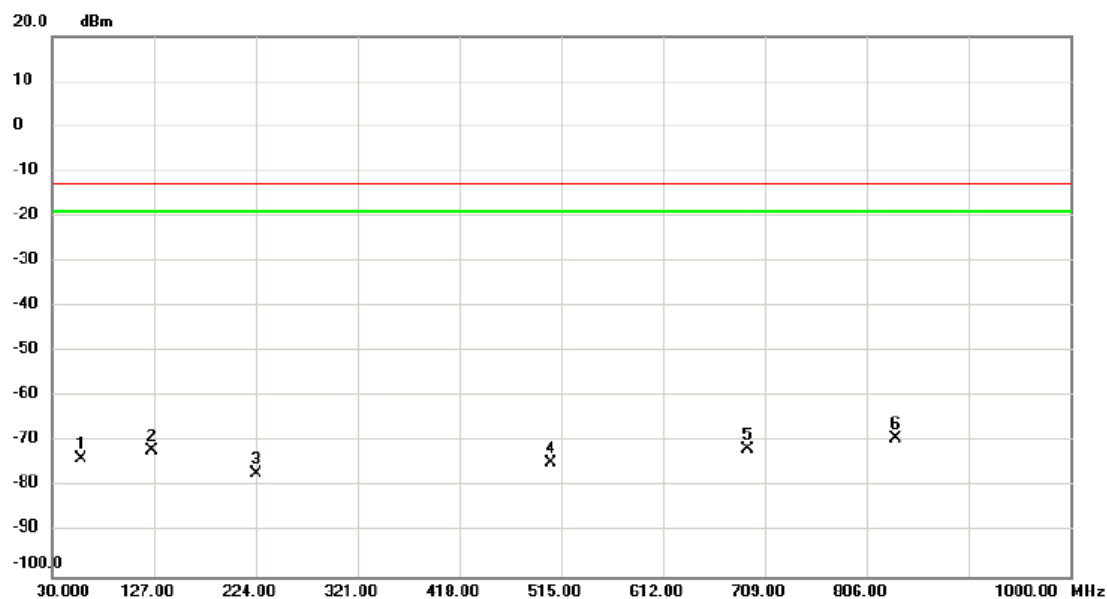
Horizontal



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	54.250	-66.60	-13.94	-80.54	-13.00	-67.54	peak	
2	108.570	-59.09	-14.68	-73.77	-13.00	-60.77	peak	
3	160.950	-66.10	-11.20	-77.30	-13.00	-64.30	peak	
4	230.790	-61.18	-14.30	-75.48	-13.00	-62.48	peak	
5	537.310	-66.47	-7.40	-73.87	-13.00	-60.87	peak	
6 *	816.670	-67.55	-2.78	-70.33	-13.00	-57.33	peak	

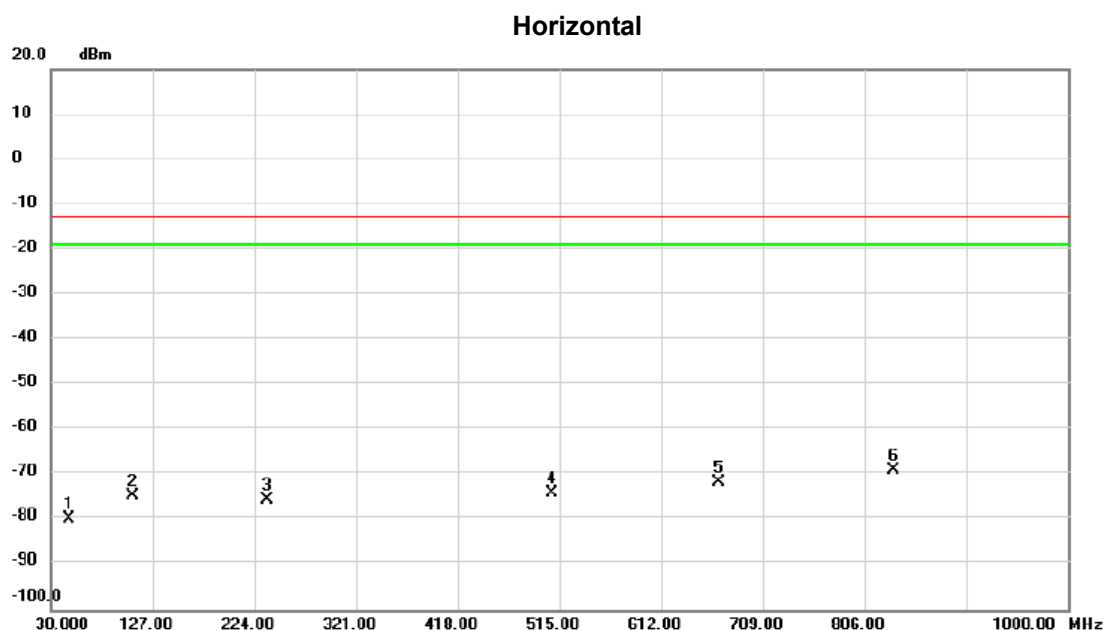
Test Mode	LTE Band 4_TX CH20175_20M
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Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		58.130	-58.96	-14.68	-73.64	-13.00	-60.64	peak	
2		125.060	-58.81	-13.10	-71.91	-13.00	-58.91	peak	
3		224.000	-62.53	-14.55	-77.08	-13.00	-64.08	peak	
4		505.300	-66.95	-7.71	-74.66	-13.00	-61.66	peak	
5		692.510	-67.60	-4.13	-71.73	-13.00	-58.73	peak	
6	*	834.130	-66.55	-2.56	-69.11	-13.00	-56.11	peak	

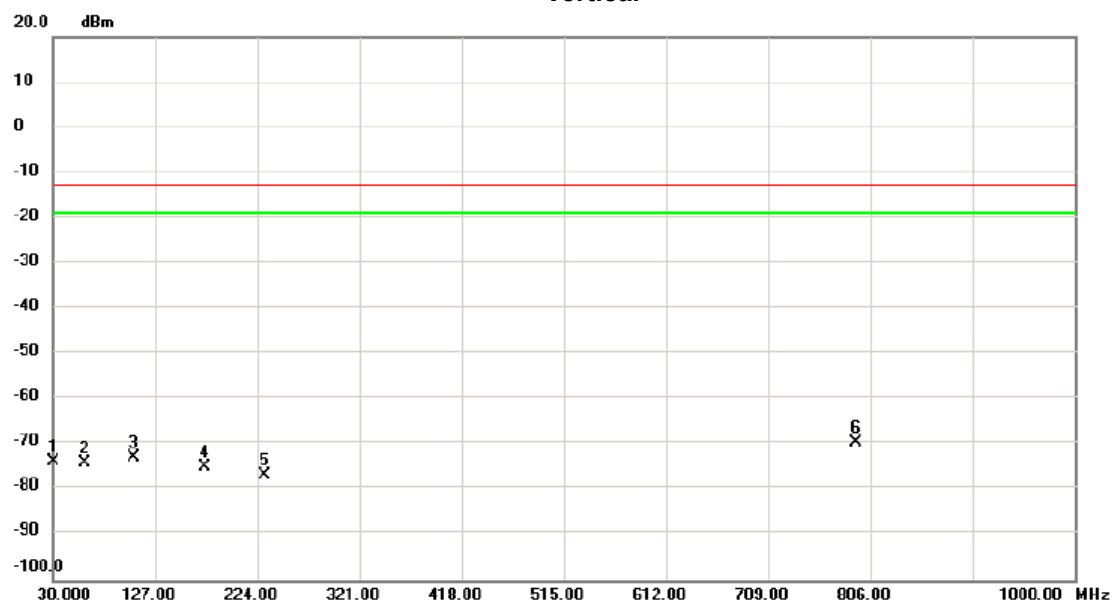
Test Mode	LTE Band 4_TX CH20175_20M
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No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		47.460	-65.39	-14.29	-79.68	-13.00	-66.68	peak	
2		108.570	-60.09	-14.68	-74.77	-13.00	-61.77	peak	
3		235.640	-61.28	-14.19	-75.47	-13.00	-62.47	peak	
4		507.240	-66.25	-7.69	-73.94	-13.00	-60.94	peak	
5		666.320	-67.01	-4.49	-71.50	-13.00	-58.50	peak	
6	*	833.160	-66.30	-2.57	-68.87	-13.00	-55.87	peak	

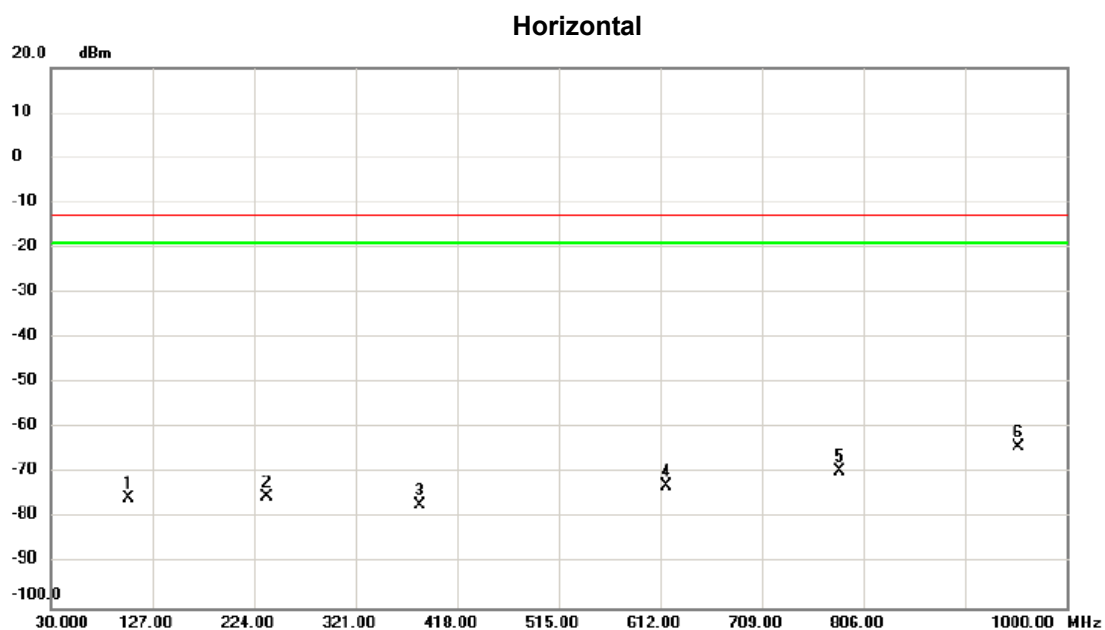
Test Mode	LTE Band 12_TX CH23095_1.4M
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Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		30.970	-58.94	-14.91	-73.85	-13.00	-60.85	peak	
2		60.070	-59.22	-14.85	-74.07	-13.00	-61.07	peak	
3		106.630	-57.94	-14.81	-72.75	-13.00	-59.75	peak	
4		173.560	-62.32	-12.74	-75.06	-13.00	-62.06	peak	
5		230.790	-62.46	-14.30	-76.76	-13.00	-63.76	peak	
6	*	792.420	-66.54	-3.12	-69.66	-13.00	-56.66	peak	

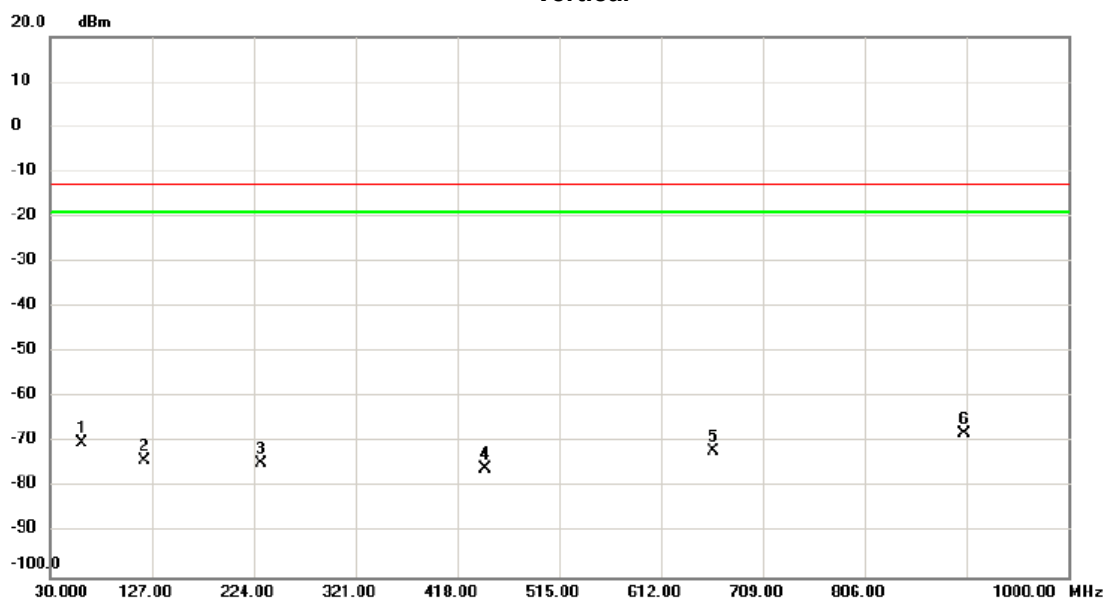
Test Mode	LTE Band 12_TX CH23095_1.4M
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1		103.720	-60.63	-15.01	-75.64	-13.00	-62.64	peak	
2		236.610	-60.95	-14.16	-75.11	-13.00	-62.11	peak	
3		382.110	-67.11	-9.97	-77.08	-13.00	-64.08	peak	
4		617.820	-67.53	-5.42	-72.95	-13.00	-59.95	peak	
5		783.690	-66.19	-3.22	-69.41	-13.00	-56.41	peak	
6	*	953.440	-63.62	-0.65	-64.27	-13.00	-51.27	peak	

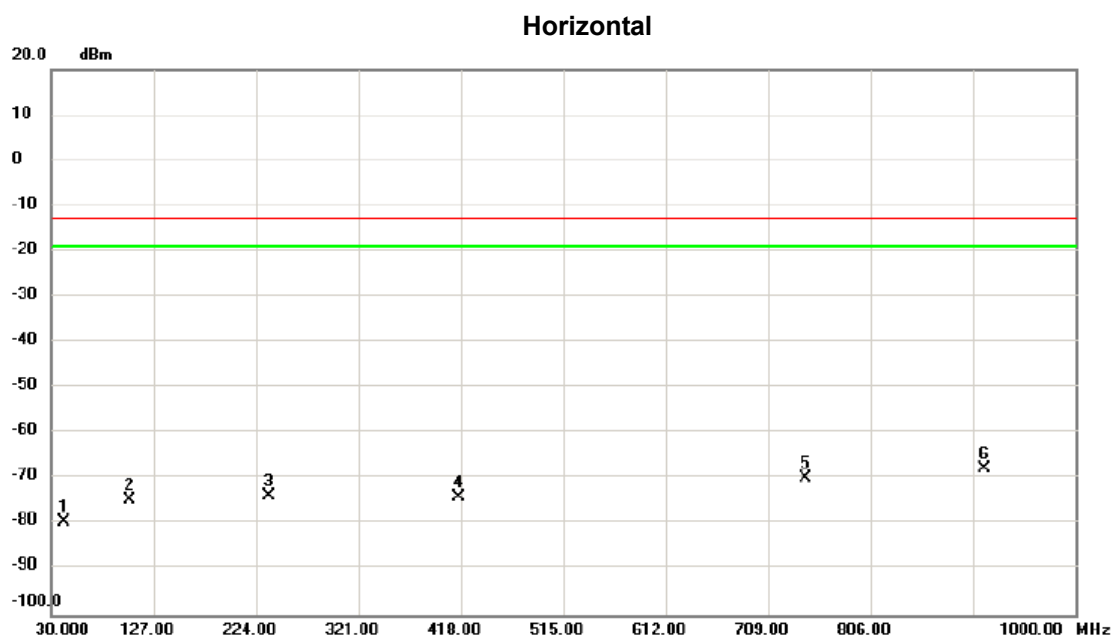
Test Mode	LTE Band 12_TX CH23095_5M
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Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		60.070	-55.22	-14.85	-70.07	-13.00	-57.07	peak	
2		119.240	-60.81	-13.21	-74.02	-13.00	-61.02	peak	
3		230.790	-60.46	-14.30	-74.76	-13.00	-61.76	peak	
4		444.190	-67.51	-8.30	-75.81	-13.00	-62.81	peak	
5		661.470	-67.29	-4.56	-71.85	-13.00	-58.85	peak	
6	*	901.060	-66.13	-1.85	-67.98	-13.00	-54.98	peak	

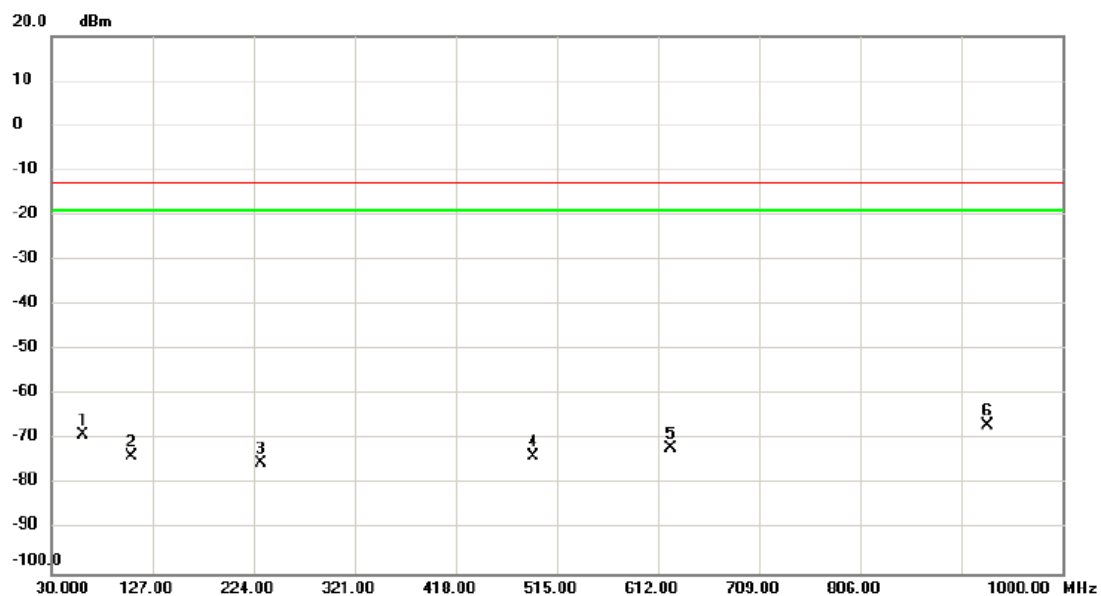
Test Mode	LTE Band 12_TX CH23095_5M
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No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		42.610	-64.87	-14.51	-79.38	-13.00	-66.38	peak	
2		103.720	-59.63	-15.01	-74.64	-13.00	-61.64	peak	
3		236.610	-59.45	-14.16	-73.61	-13.00	-60.61	peak	
4		416.060	-64.97	-9.09	-74.06	-13.00	-61.06	peak	
5		744.890	-66.22	-3.70	-69.92	-13.00	-56.92	peak	
6	*	913.670	-66.27	-1.56	-67.83	-13.00	-54.83	peak	

Test Mode	LTE Band 12_TX CH23095_10M
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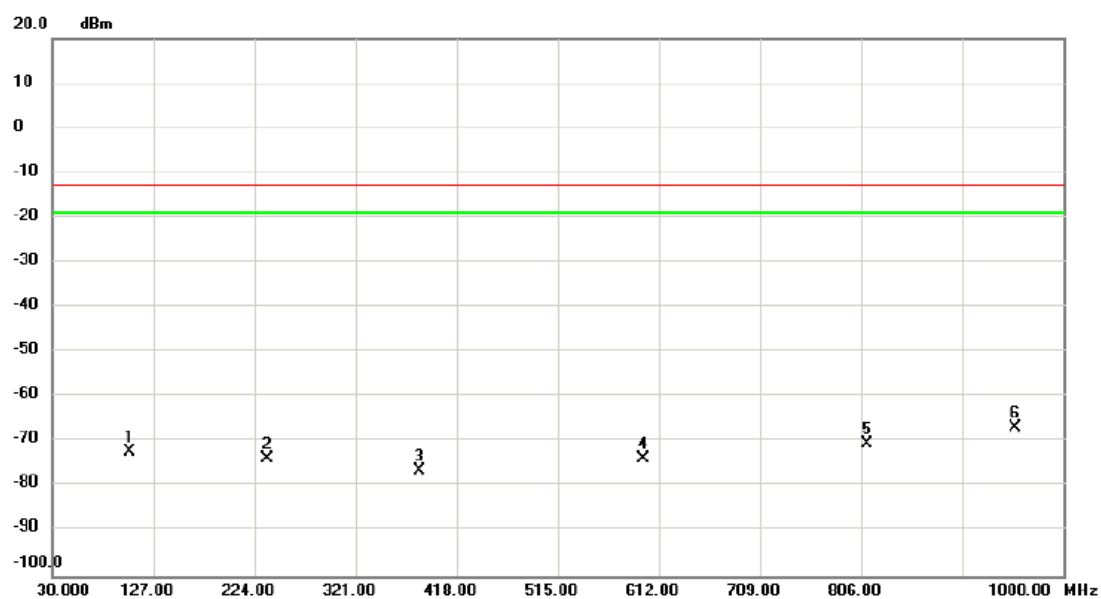
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1		60.070	-54.22	-14.85	-69.07	-13.00	-56.07	peak	
2		106.630	-58.94	-14.81	-73.75	-13.00	-60.75	peak	
3		230.790	-60.96	-14.30	-75.26	-13.00	-62.26	peak	
4		491.720	-66.01	-7.82	-73.83	-13.00	-60.83	peak	
5		624.610	-66.61	-5.27	-71.88	-13.00	-58.88	peak	
6	*	928.220	-65.60	-1.22	-66.82	-13.00	-53.82	peak	

Test Mode	LTE Band 12_TX CH23095_10M
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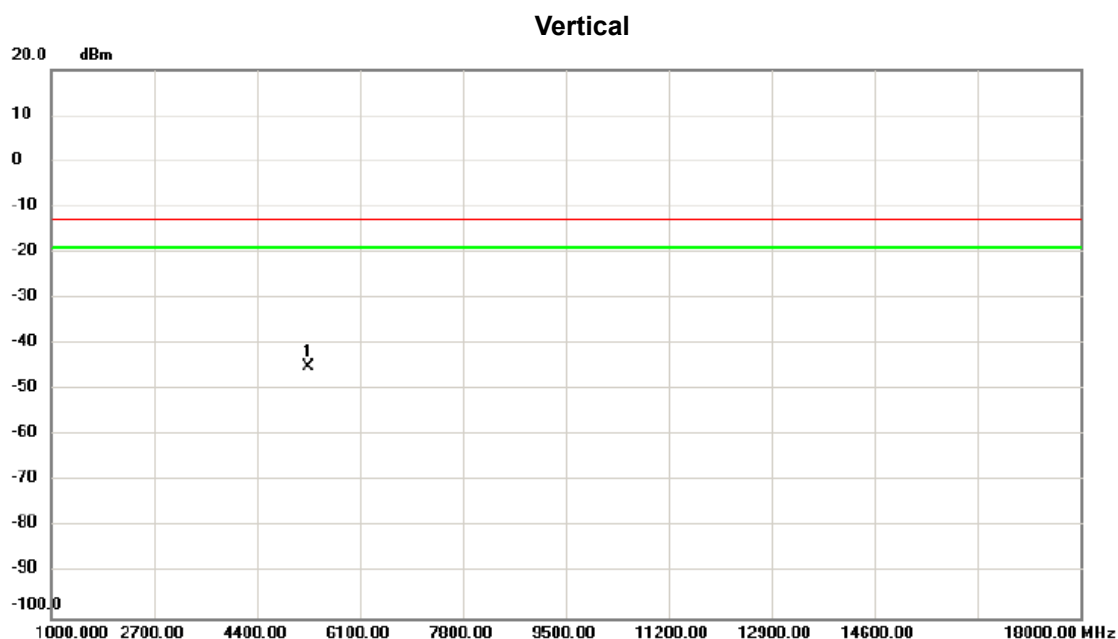
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		103.720	-57.13	-15.01	-72.14	-13.00	-59.14	peak	
2		236.610	-59.45	-14.16	-73.61	-13.00	-60.61	peak	
3		382.110	-66.61	-9.97	-76.58	-13.00	-63.58	peak	
4		597.450	-67.79	-5.88	-73.67	-13.00	-60.67	peak	
5		811.820	-67.46	-2.85	-70.31	-13.00	-57.31	peak	
6	*	953.440	-66.12	-0.65	-66.77	-13.00	-53.77	peak	

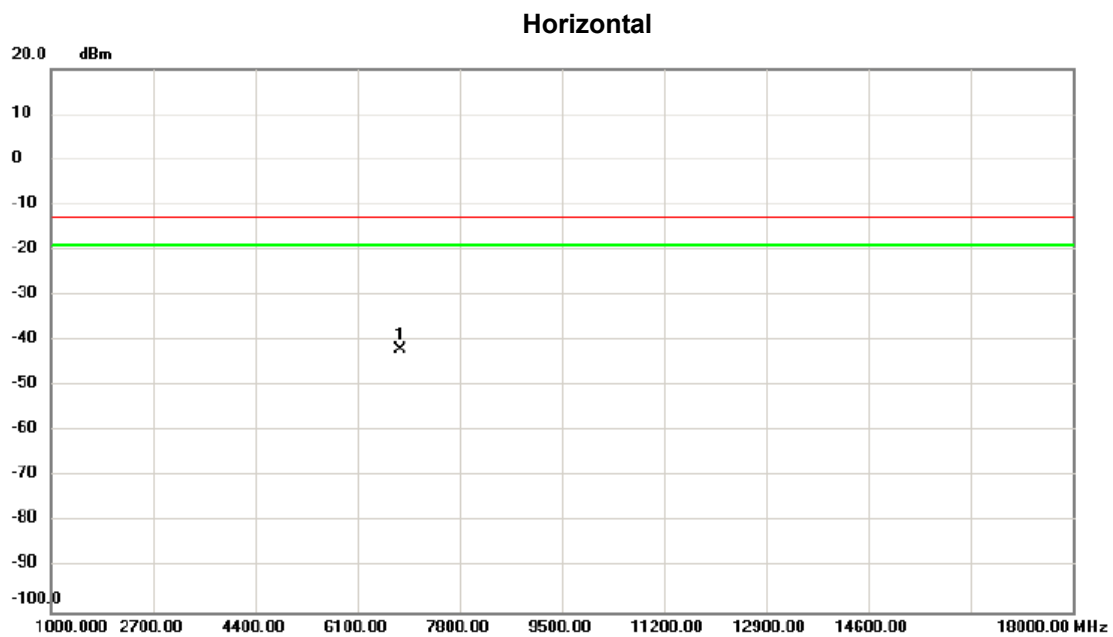
APPENDIX F - RADIATED SPURIOUS EMISSIONS (ABOVE 1GHZ)

Test Mode	LTE Band 4_TX CH20175_1.4M
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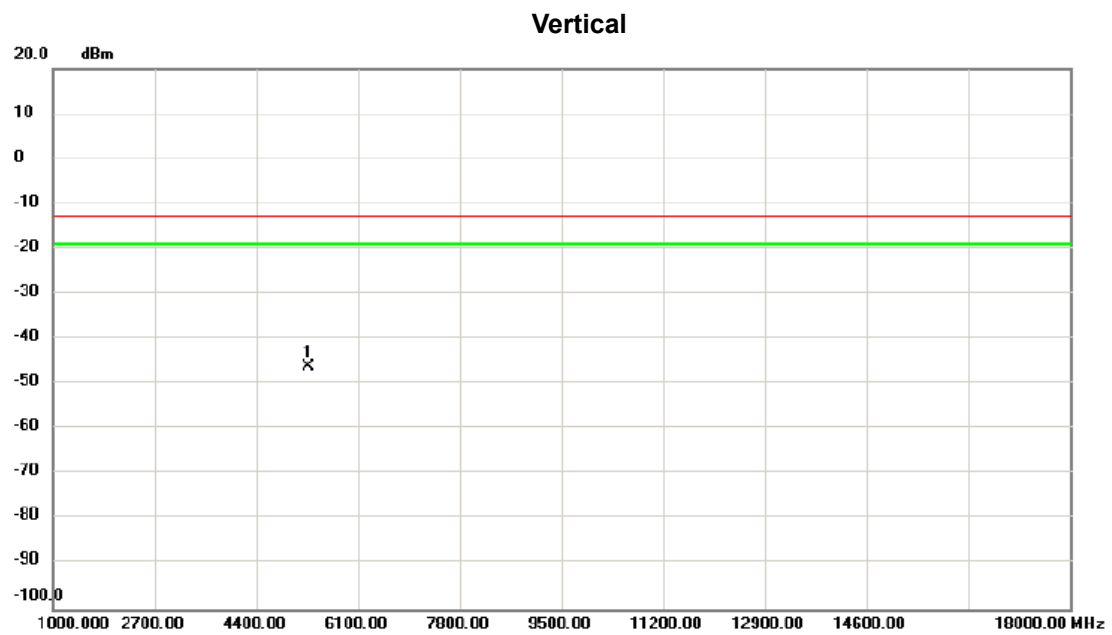
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	5250.000	-54.58	9.55	-45.03	-13.00	-32.03	peak	

Test Mode	LTE Band 4_TX CH20175_1.4M
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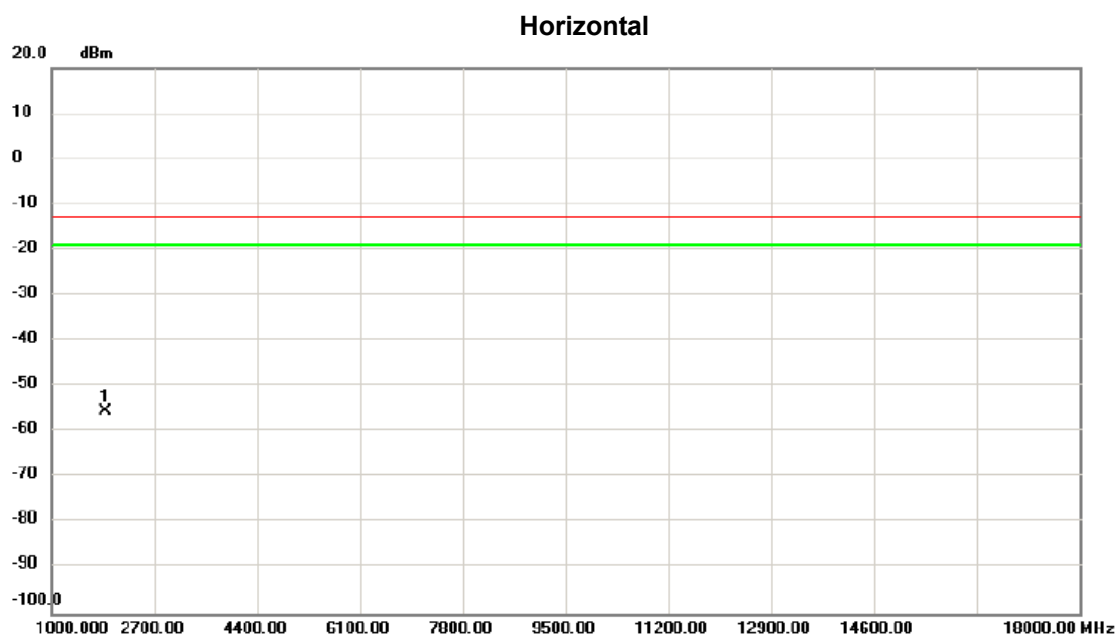
No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	6814.000	-58.08	16.13	-41.95	-13.00	-28.95	peak	

Test Mode	LTE Band 4_TX CH20175_5M
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	5267.000	-55.77	9.61	-46.16	-13.00	-33.16	peak	

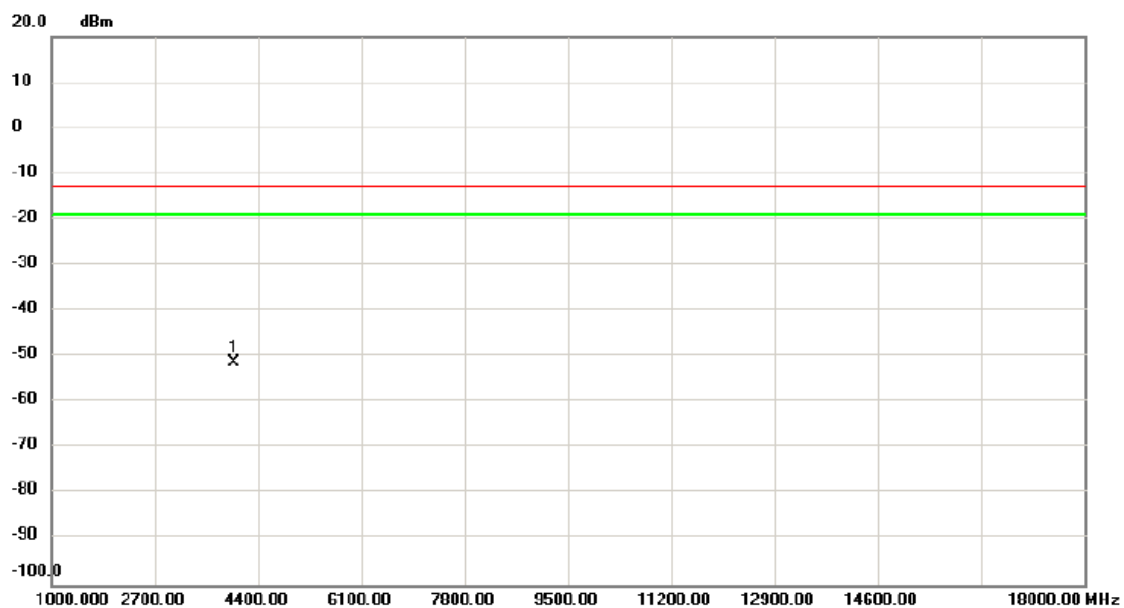
Test Mode	LTE Band 4_TX CH20175_5M
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No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	1901.000	-54.11	-1.38	-55.49	-13.00	-42.49	peak	

Test Mode	LTE Band 4_TX CH20175_20M
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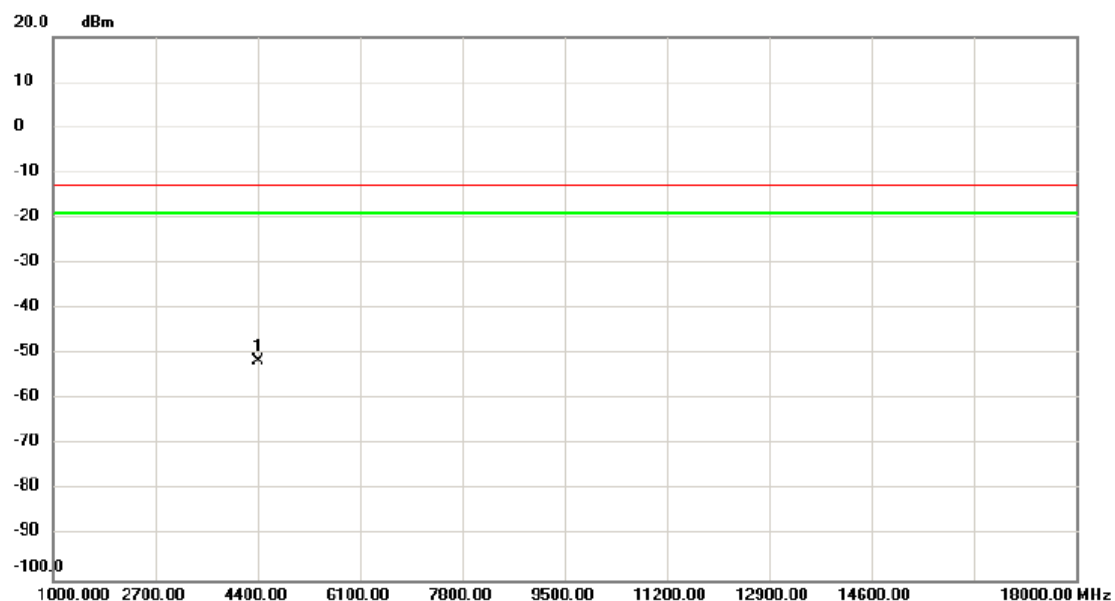
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	3992.000	-57.66	6.39	-51.27	-13.00	-38.27	peak	

Test Mode	LTE Band 4_TX CH20175_20M
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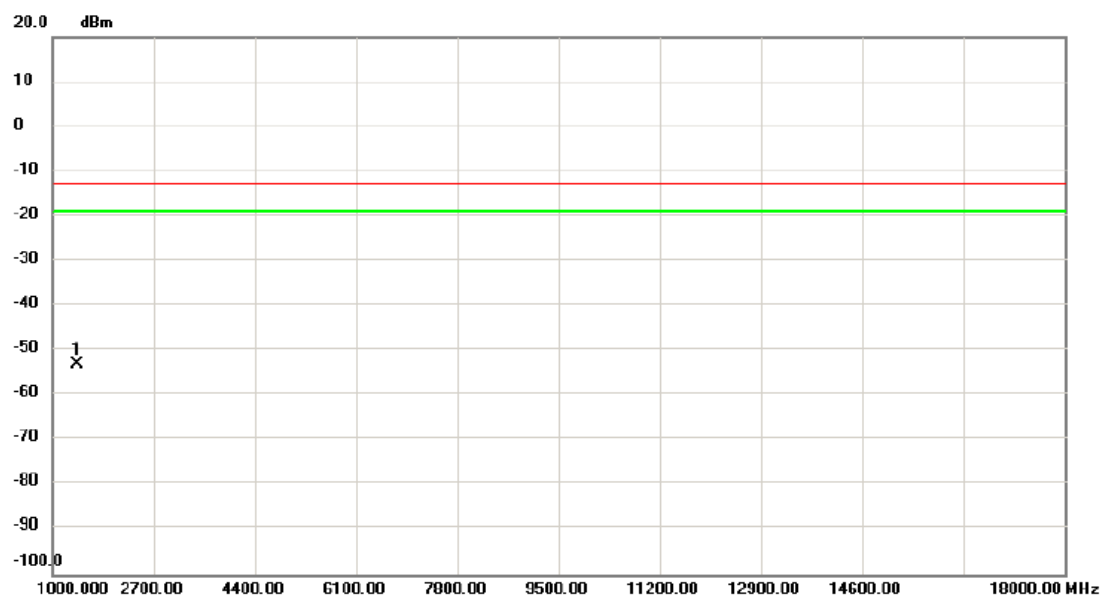
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	4400.000	-58.30	6.85	-51.45	-13.00	-38.45	peak	

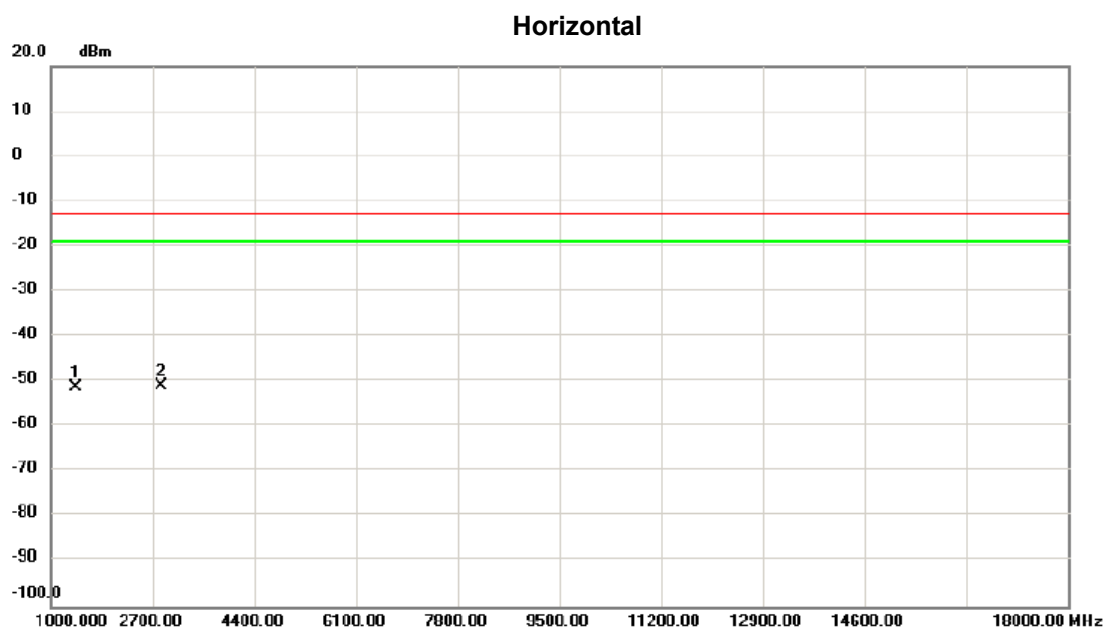
Test Mode	LTE Band 12_TX CH23095_1.4M
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Vertical



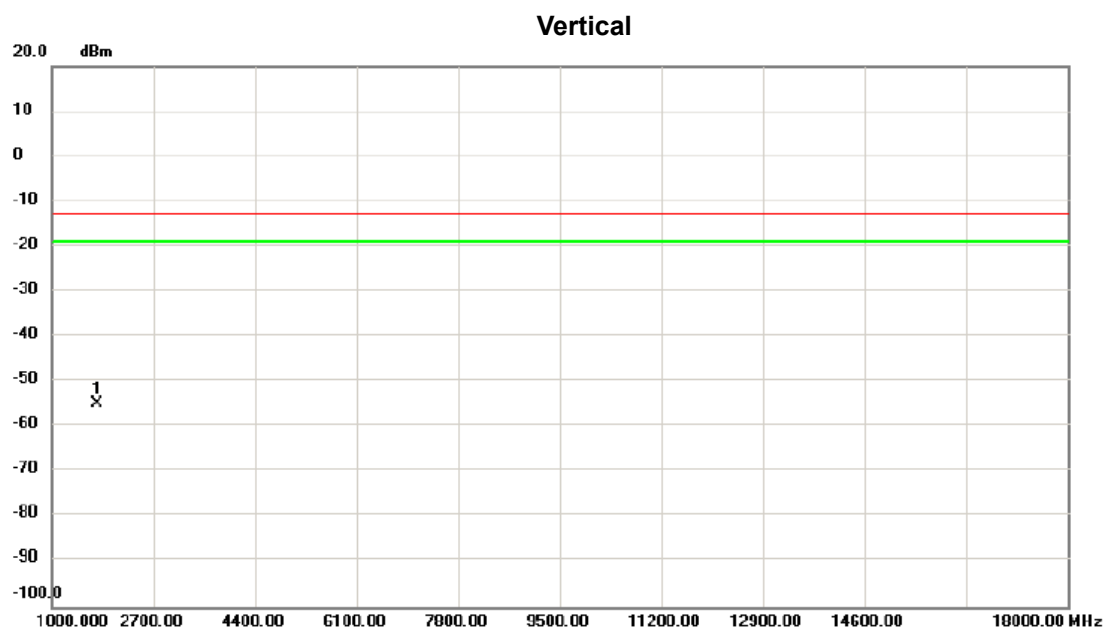
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1408.000	-48.52	-4.66	-53.18	-13.00	-40.18	peak	

Test Mode	LTE Band 12_TX CH23095_1.4M
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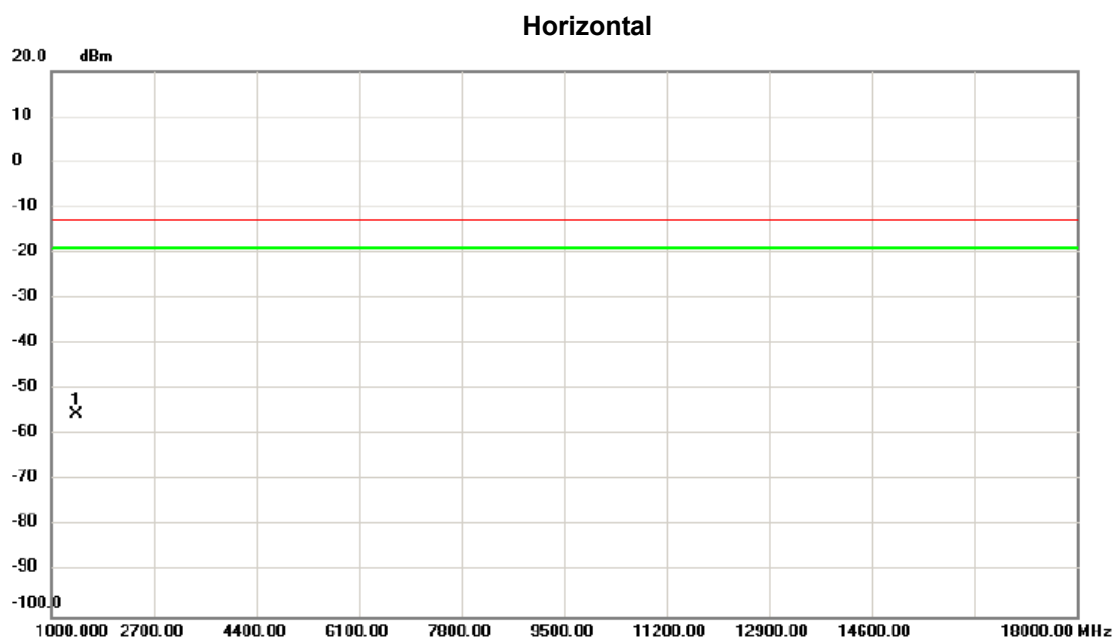
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1		1408.000	-46.72	-4.66	-51.38	-13.00	-38.38	peak	
2	*	2836.000	-52.02	1.10	-50.92	-13.00	-37.92	peak	

Test Mode	LTE Band 12_TX CH23095_5M
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1748.000	-52.46	-2.43	-54.89	-13.00	-41.89	peak	

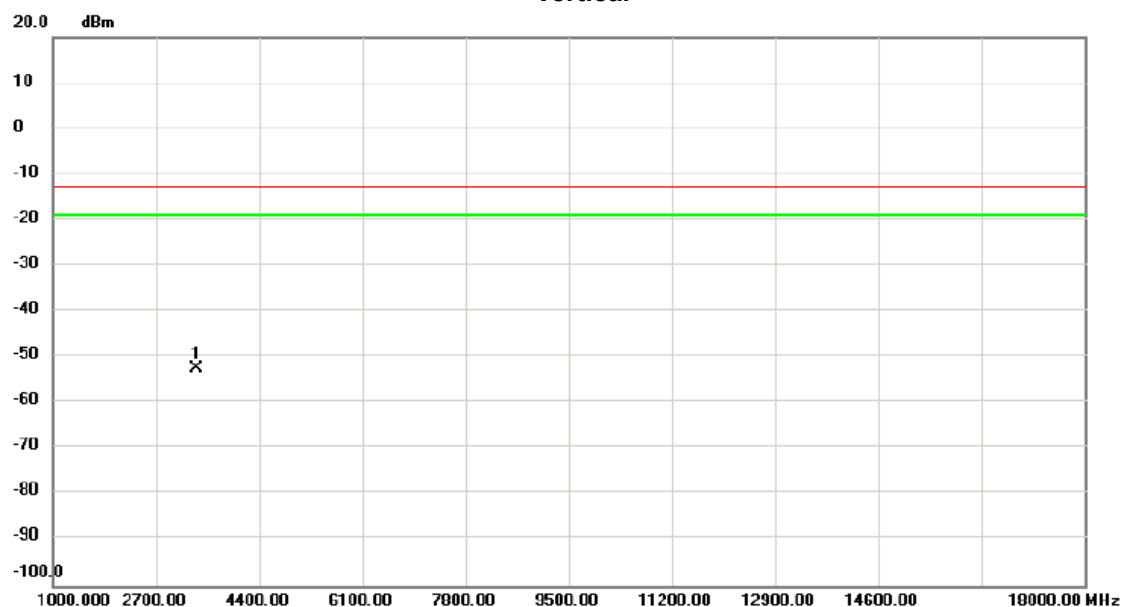
Test Mode	LTE Band 12_TX CH23095_5M
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1408.000	-50.68	-4.66	-55.34	-13.00	-42.34	peak	

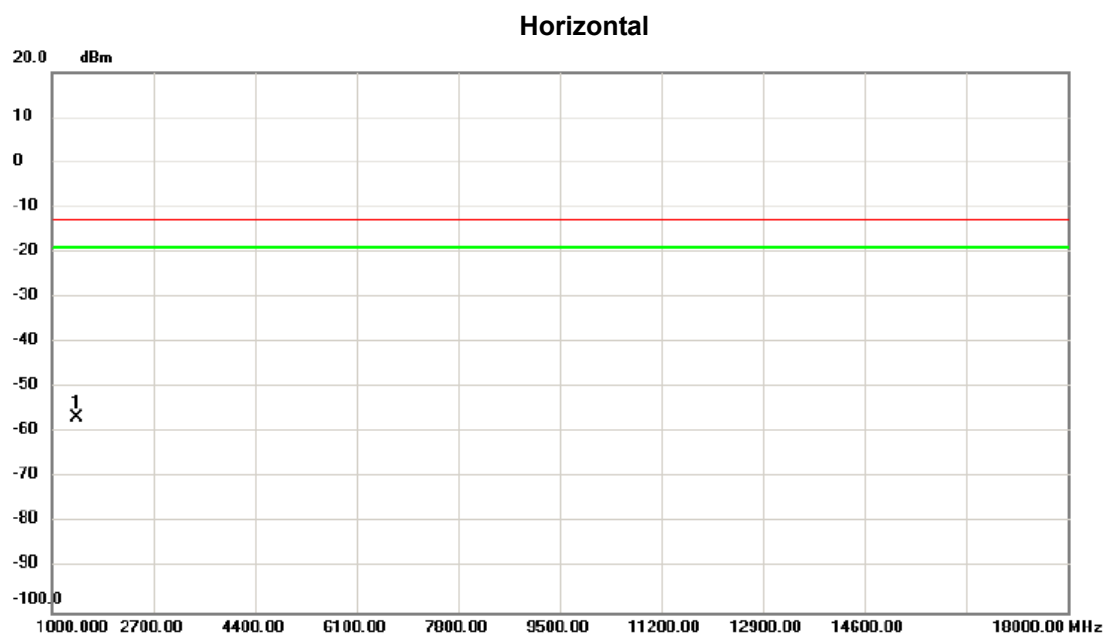
Test Mode	LTE Band 12_TX CH23095_10M
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Vertical



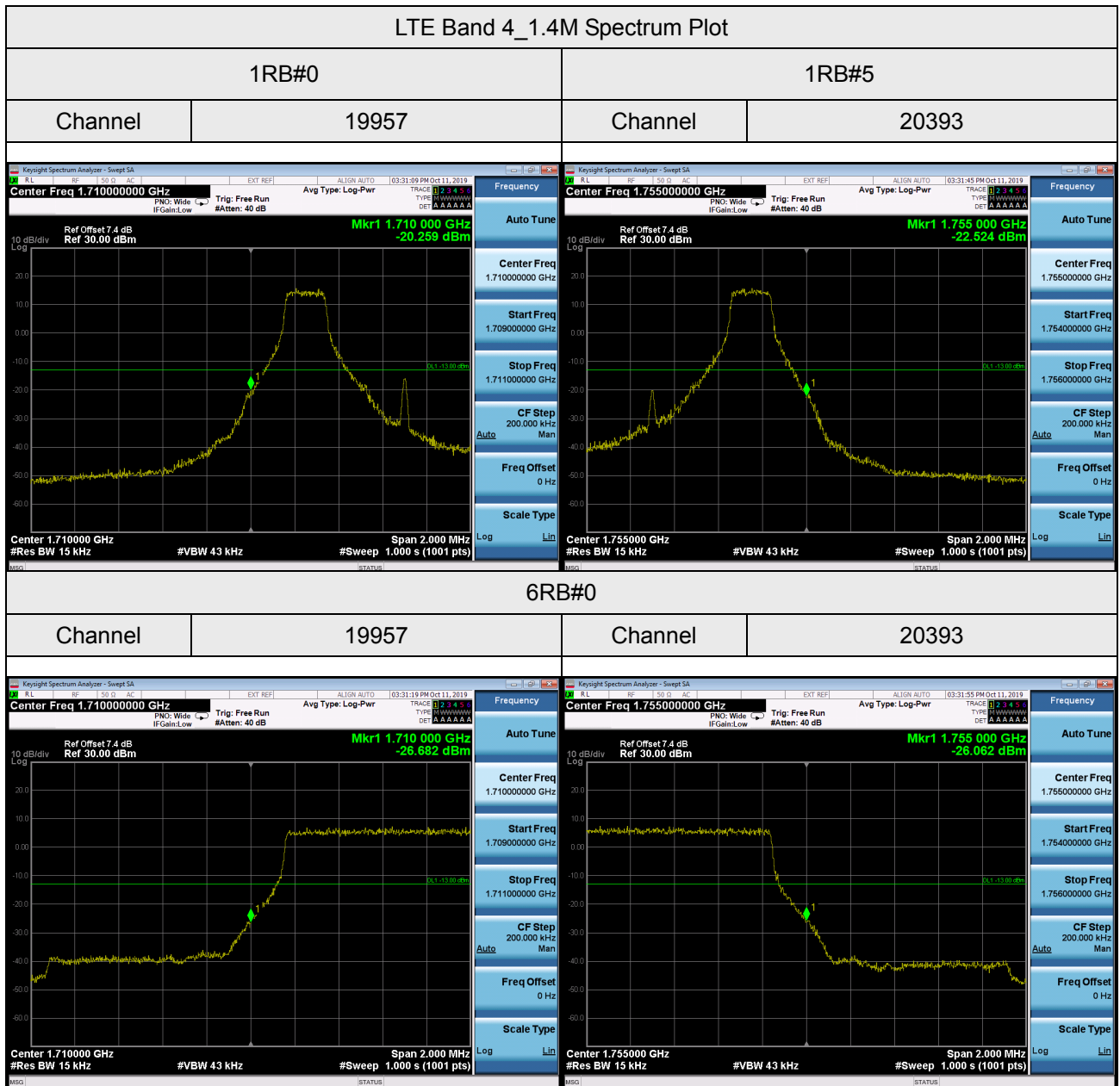
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	3363.000	-56.22	3.89	-52.33	-13.00	-39.33	peak	

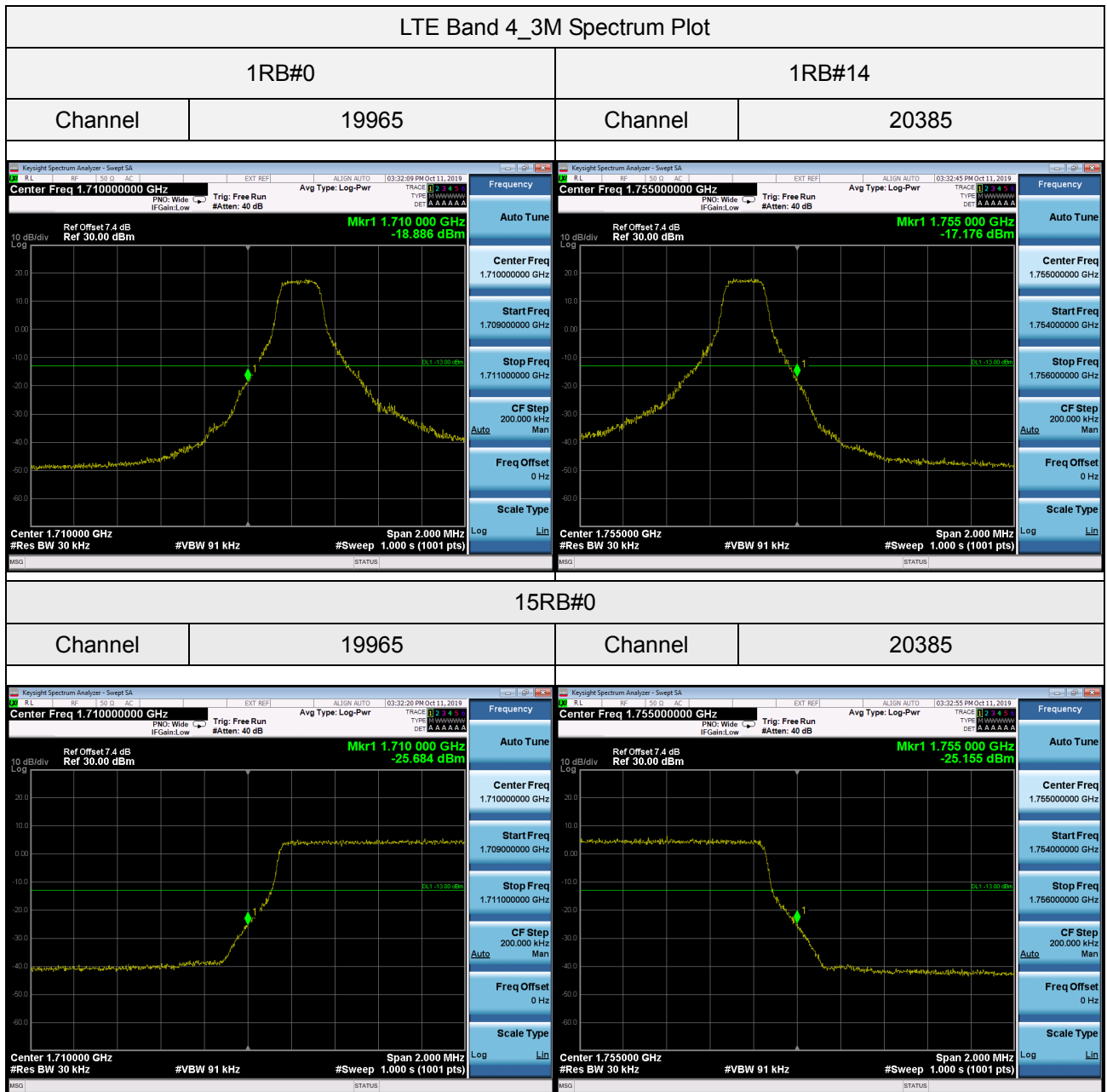
Test Mode	LTE Band 12_TX CH23095_10M
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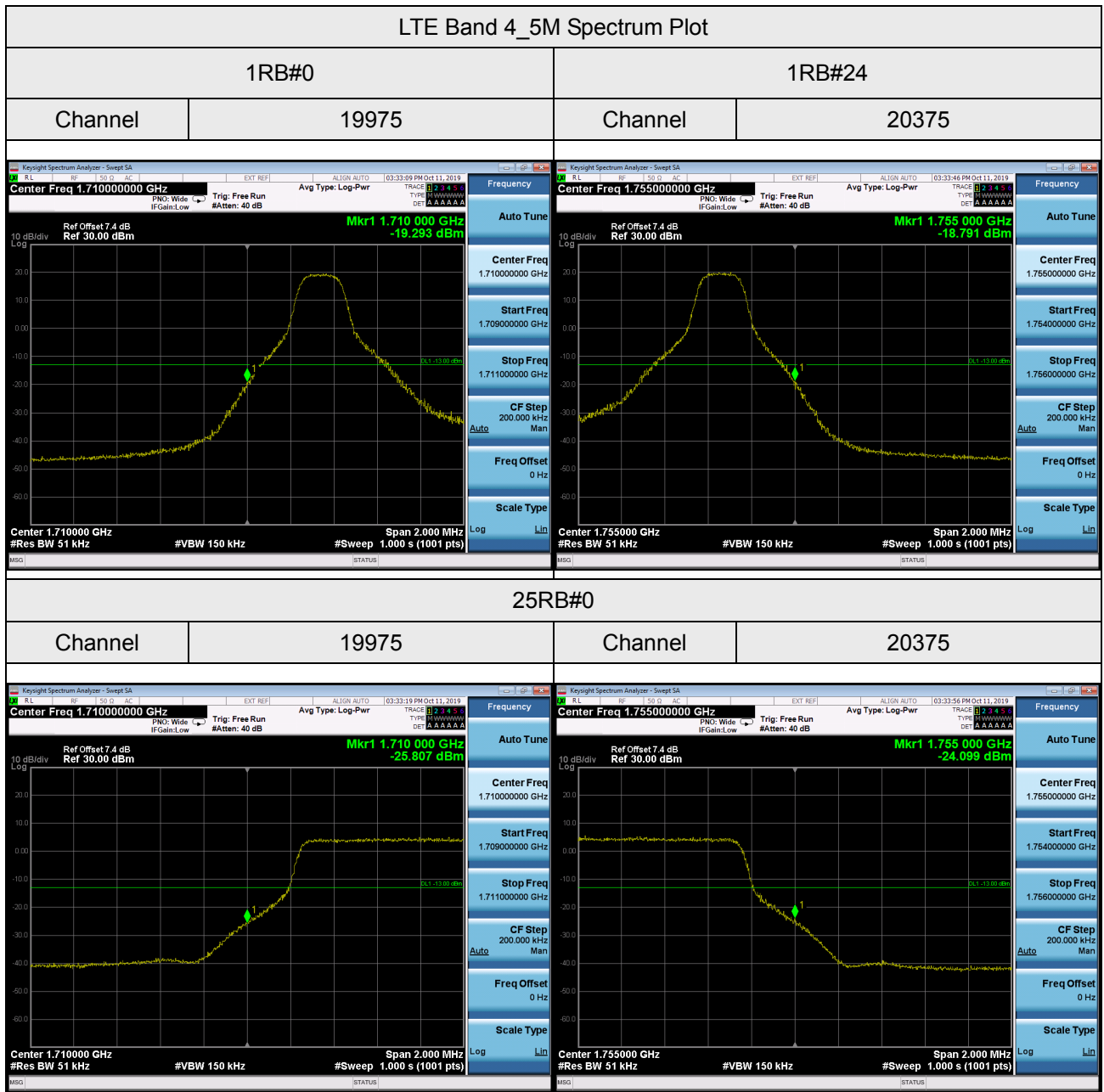


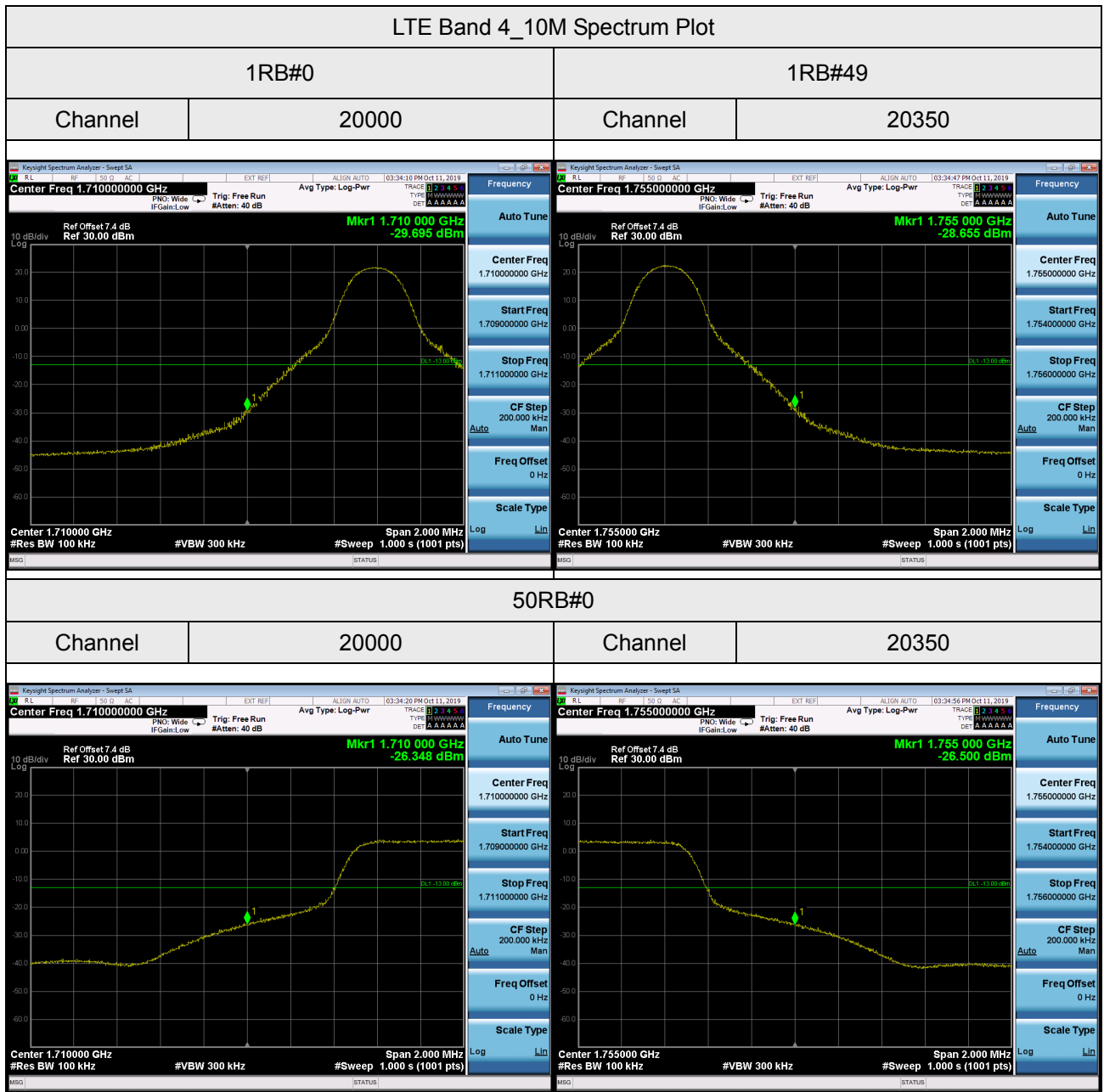
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1408.000	-52.09	-4.66	-56.75	-13.00	-43.75	peak	

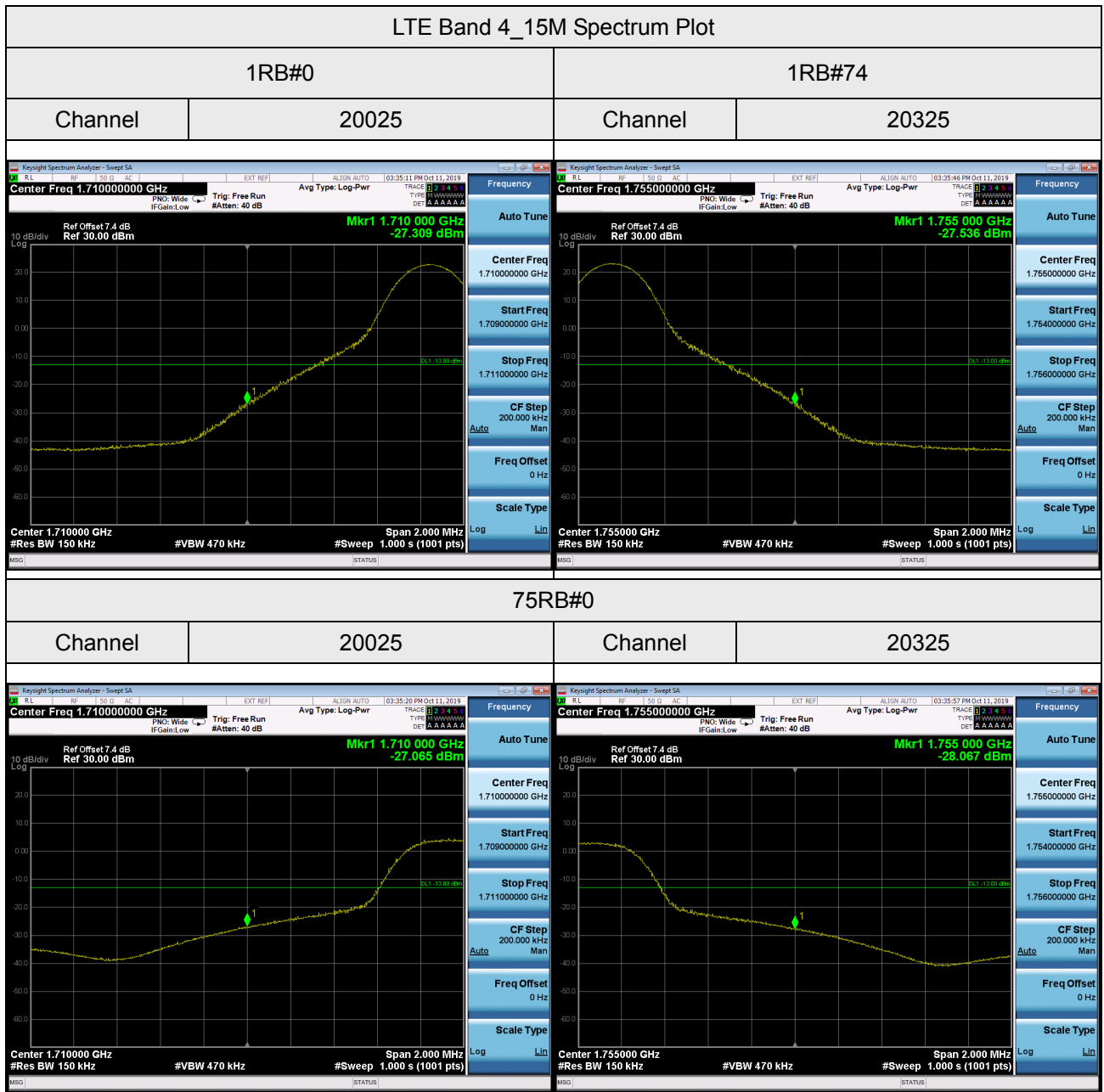
APPENDIX G - BAND EDGE

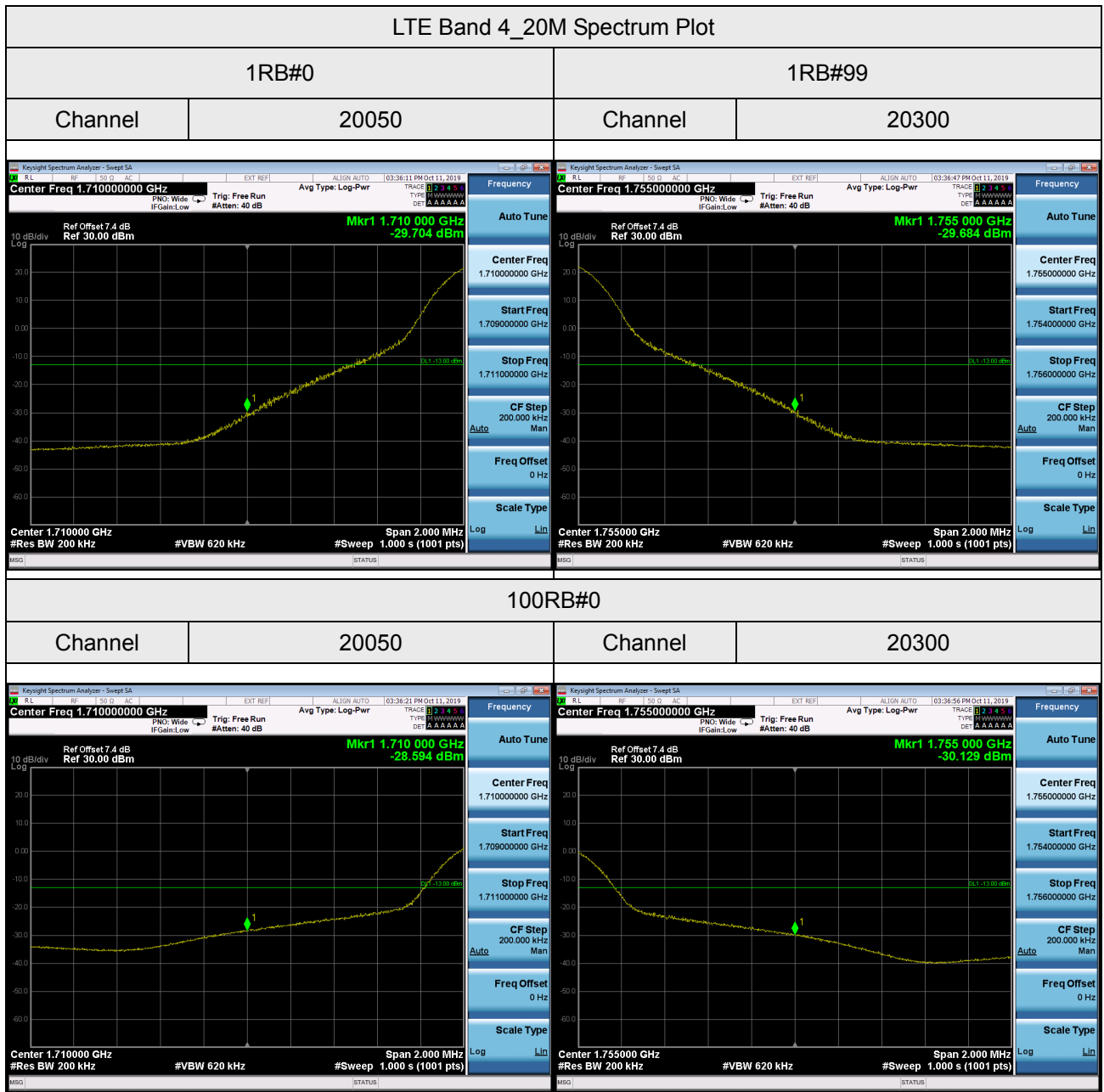


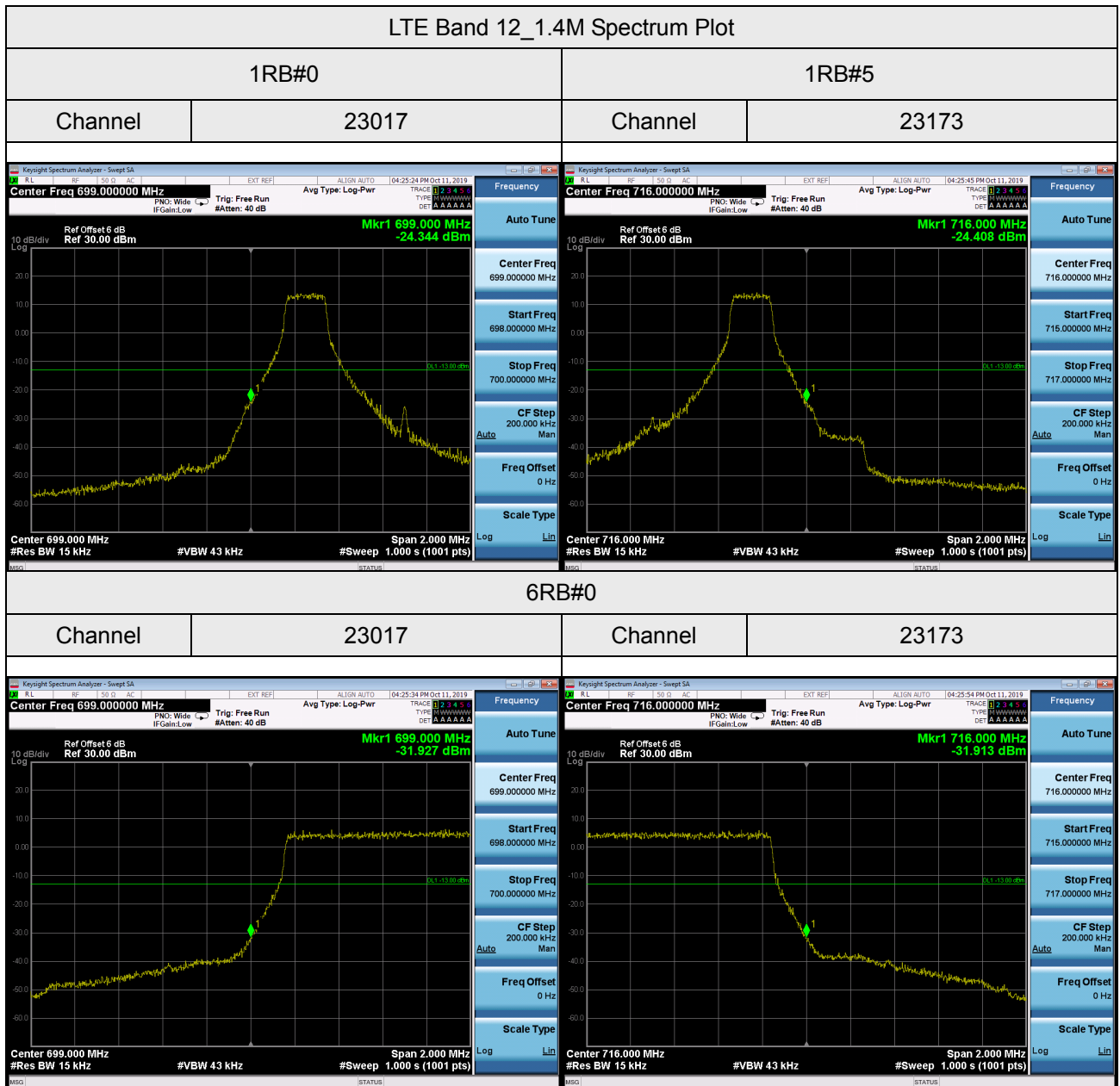


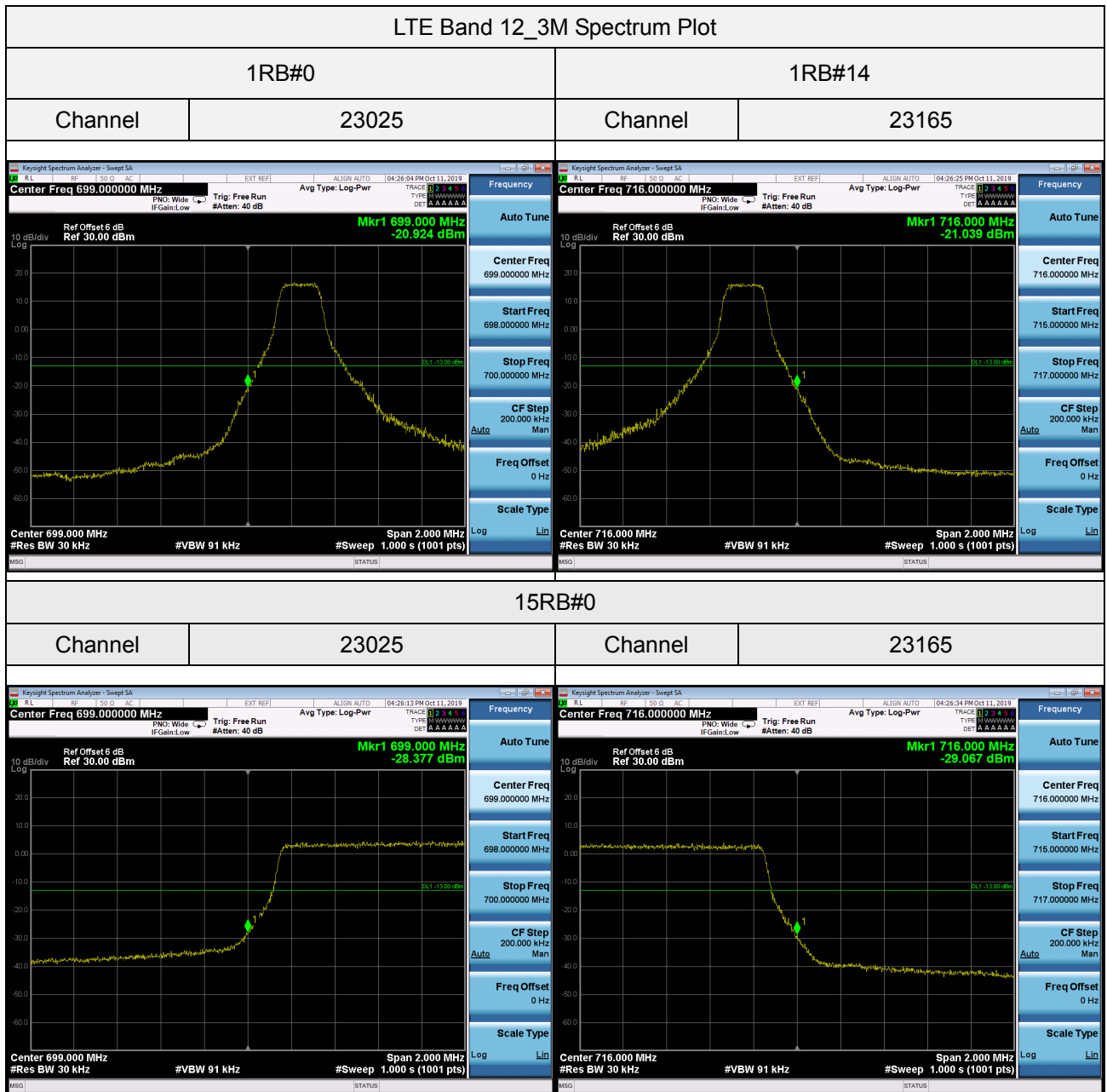


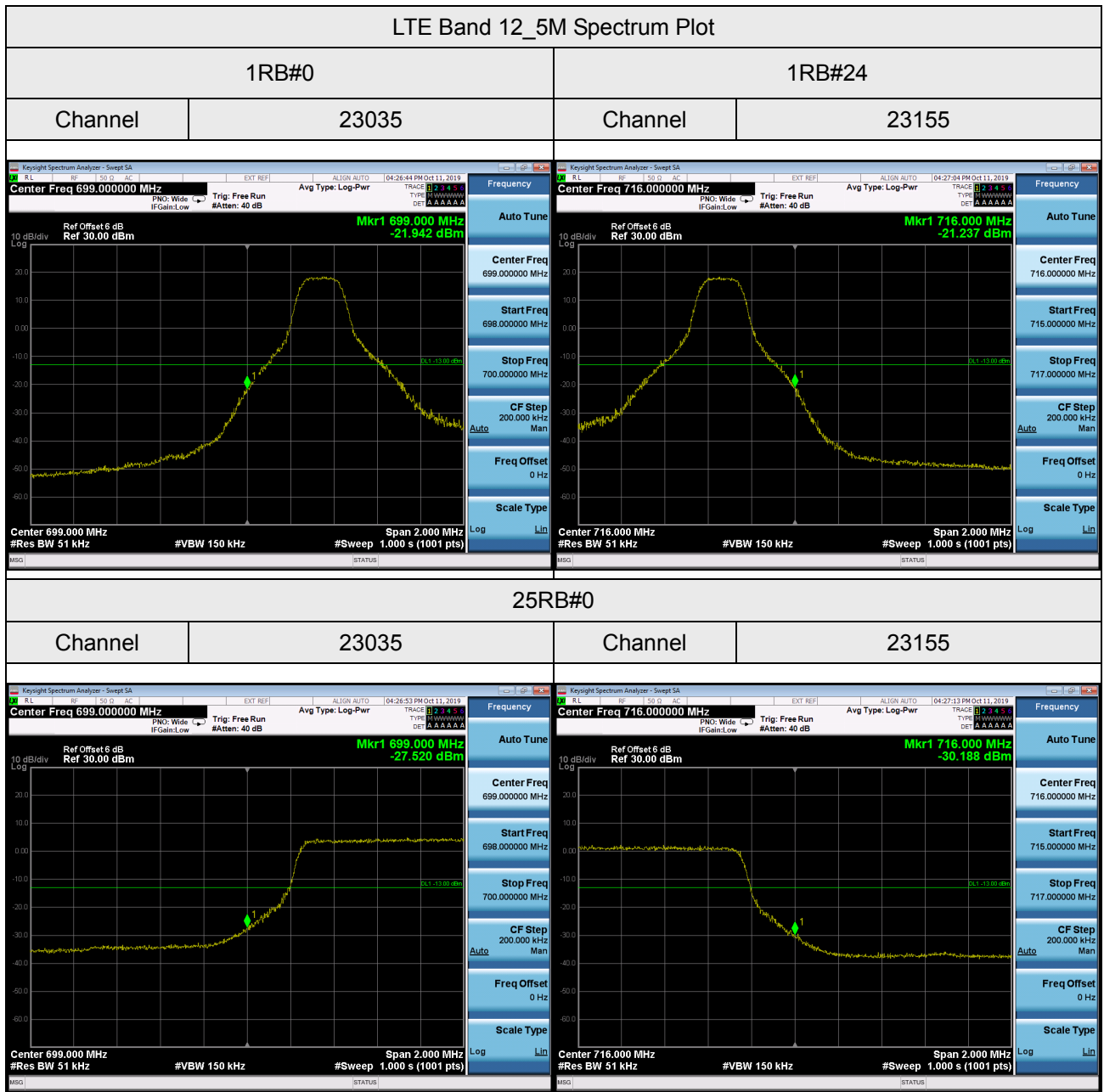


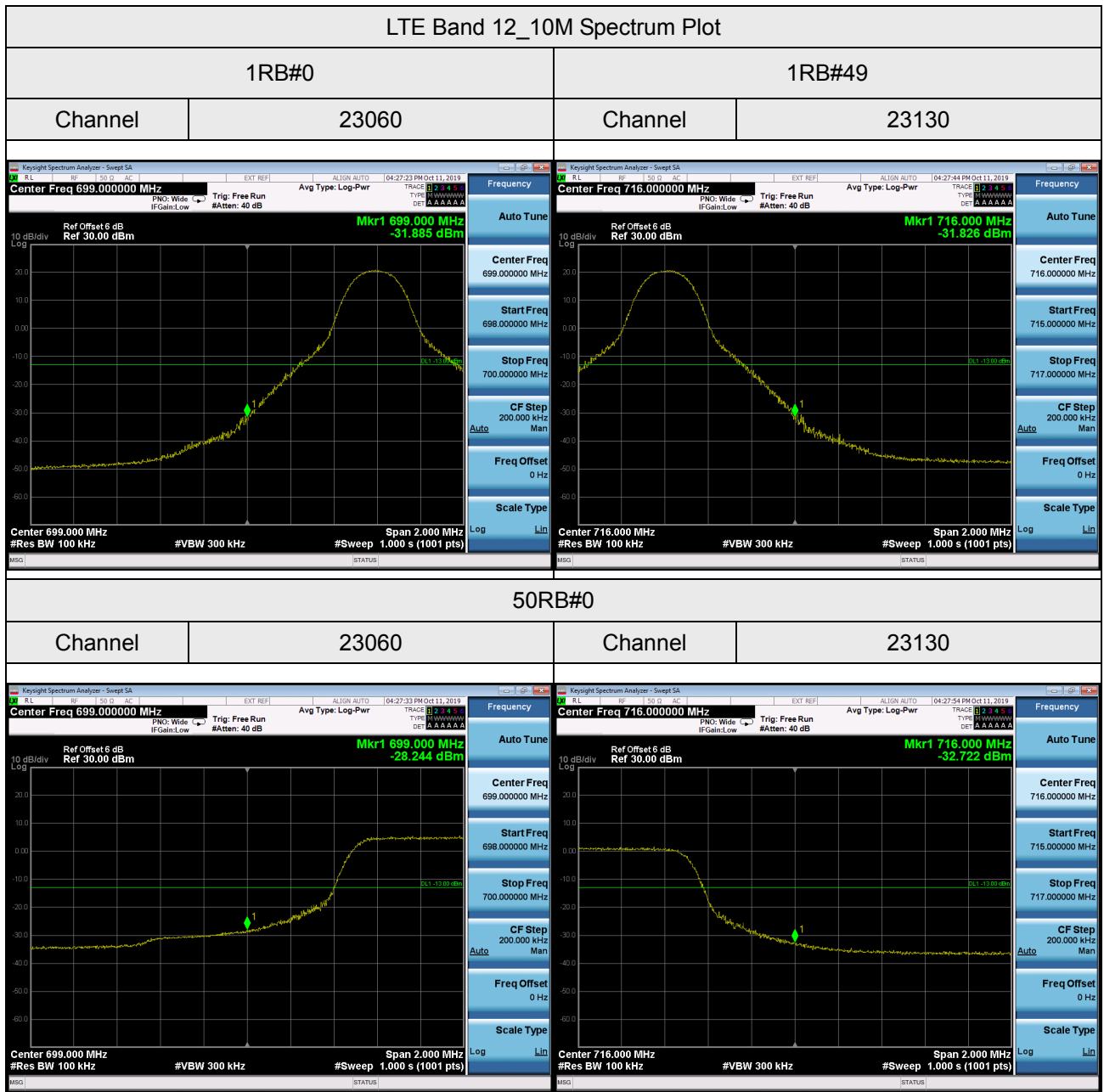












APPENDIX H - PEAK TO AVERAGE RATIO

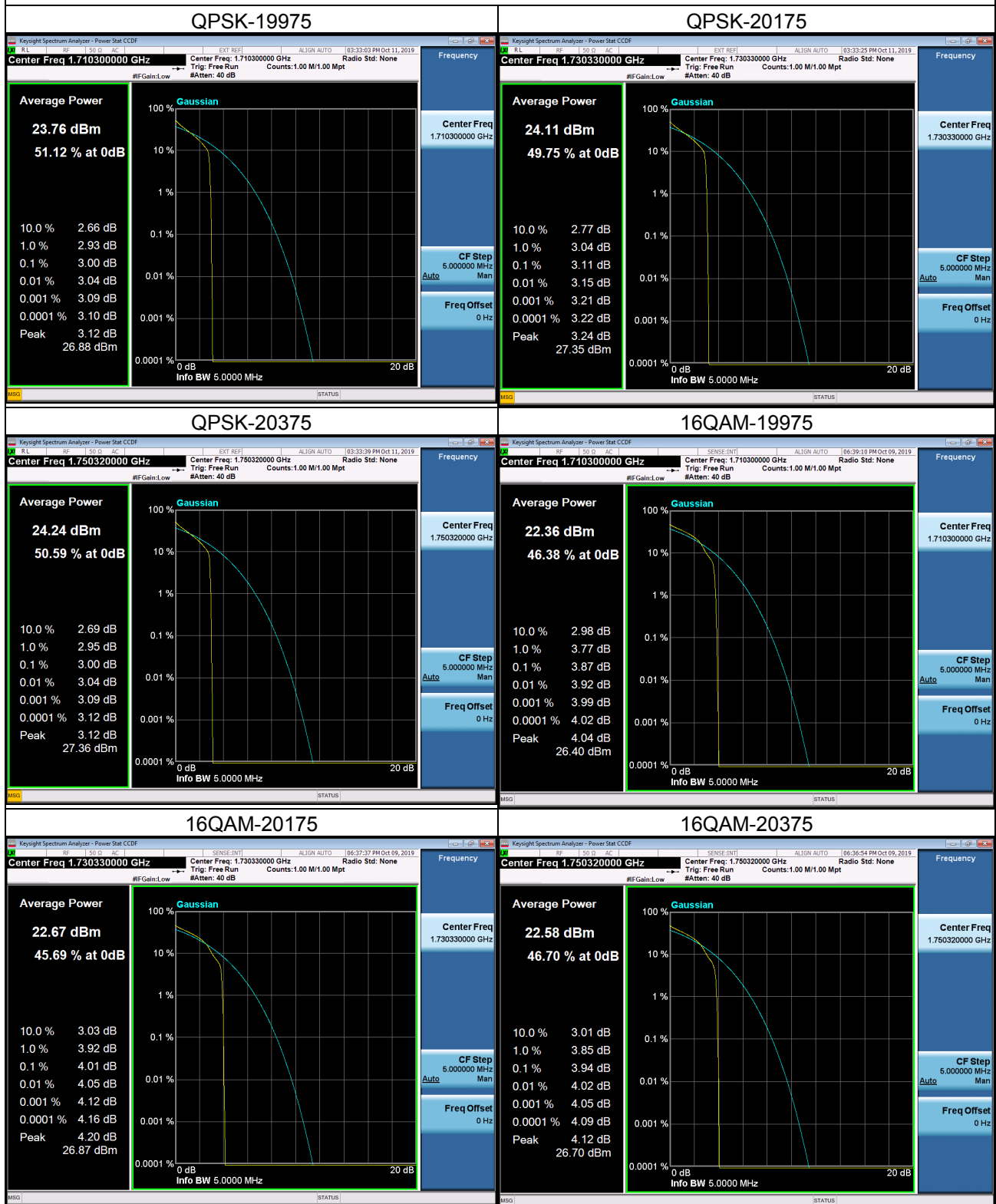
LTE Band 4_1.4M Spectrum Plot



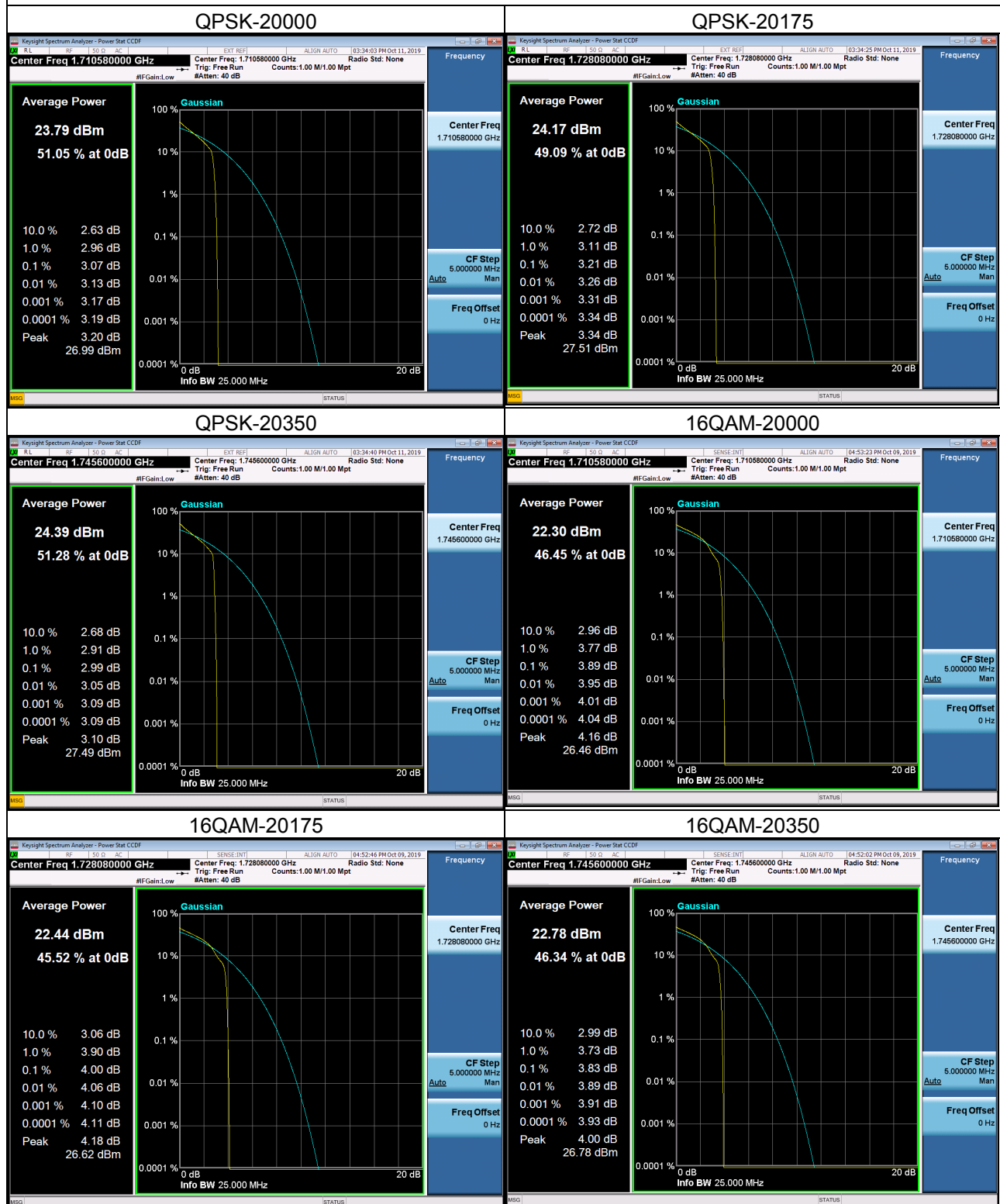
LTE Band 4_3M Spectrum Plot



LTE Band 4_5M Spectrum Plot



LTE Band 4_10M Spectrum Plot



LTE Band 4_15M Spectrum Plot

