Appendix B

E-UTRA Band 17

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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Down Antenna:

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	23.65	19.90	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.60	19.85	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.74	19.99	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.73	18.98	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#6	22.70	18.95	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#13	22.76	19.01	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.74	18.99	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.58	19.83	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.70	19.95	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.74	19.99	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#0	22.63	18.88	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#6	22.76	19.01	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#13	22.76	19.01	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.75	19.00	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.78	20.03	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.84	20.09	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.67	19.92	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#0	22.74	18.99	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#6	22.84	19.09	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#13	22.84	19.09	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.79	19.04	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	23.07	19.32	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.56	18.81	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.75	19.00	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#0	21.69	17.94	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#6	21.68	17.93	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#13	21.67	17.92	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.67	17.92	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	23.16	19.41	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	23.07	19.32	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	23.08	19.33	34.77	PASS

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Band17	5MHz	16QAM	23790	12RB#0	21.58	17.83	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#6	21.64	17.89	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#13	21.68	17.93	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.58	17.83	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.87	19.12	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	23.08	19.33	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.72	18.97	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#0	21.62	17.87	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#6	21.81	18.06	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#13	21.70	17.95	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.77	18.02	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.85	20.10	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.73	19.98	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.06	19.31	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.73	18.98	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.75	19.00	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#25	22.85	19.10	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.79	19.04	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.76	20.01	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.87	20.12	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.13	19.38	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.78	19.03	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#12	22.80	19.05	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#25	22.84	19.09	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.81	19.06	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.80	20.05	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.74	19.99	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.04	19.29	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#0	22.75	19.00	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#12	22.84	19.09	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#25	22.97	19.22	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.94	19.19	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.82	19.07	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.59	18.84	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	23.33	19.58	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#0	21.60	17.85	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#12	21.68	17.93	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#25	21.69	17.94	34.77	PASS

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Band17	10MHz	16QAM	23780	50RB#0	21.64	17.89	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.88	19.13	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	23.03	19.28	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	23.05	19.30	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#0	21.76	18.01	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#12	21.74	17.99	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#25	21.77	18.02	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.78	18.03	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.79	19.04	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.76	19.01	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	23.24	19.49	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#0	21.59	17.84	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#12	21.62	17.87	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#25	21.93	18.18	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.78	18.03	34.77	PASS

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Up Antenna:

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	23.20	18.25	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.42	18.47	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.30	18.35	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.38	17.43	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#6	22.47	17.52	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#13	22.48	17.53	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.51	17.56	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.30	18.35	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.42	18.47	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.42	18.47	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#0	22.51	17.56	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#6	22.51	17.56	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#13	22.65	17.70	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.54	17.59	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.52	18.57	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.39	18.44	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.45	18.50	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#0	22.52	17.57	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#6	22.64	17.69	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#13	22.66	17.71	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.57	17.62	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.83	17.88	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.72	17.77	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.88	17.93	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#0	21.37	16.42	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#6	21.42	16.47	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#13	21.35	16.40	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.34	16.39	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.44	17.49	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.82	17.87	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.33	17.38	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#0	21.27	16.32	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#6	21.44	16.49	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#13	21.49	16.54	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.41	16.46	34.77	PASS

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Band17	5MHz	16QAM	23825	1RB#0	22.94	17.99	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.83	17.88	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.95	18.00	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#0	21.45	16.50	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#6	21.58	16.63	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#13	21.45	16.50	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.54	16.59	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.39	18.44	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.48	18.53	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.05	18.10	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.67	17.72	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.66	17.71	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#25	22.72	17.77	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.68	17.73	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.33	18.38	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.58	18.63	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.03	18.08	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.66	17.71	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#12	22.66	17.71	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#25	22.76	17.81	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.72	17.77	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.46	18.51	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.62	18.67	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.00	18.05	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#0	22.65	17.70	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#12	22.68	17.73	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#25	22.87	17.92	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.78	17.83	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.65	17.70	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.85	17.90	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	23.11	18.16	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#0	21.66	16.71	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#12	21.65	16.70	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#25	21.81	16.86	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.76	16.81	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.76	17.81	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.86	17.91	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	23.00	18.05	34.77	PASS

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Band17	10MHz	16QAM	23790	25RB#0	21.62	16.67	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#12	21.70	16.75	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#25	21.73	16.78	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.78	16.83	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.43	17.48	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	23.03	18.08	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	23.05	18.10	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#0	21.57	16.62	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#12	21.75	16.80	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#25	21.74	16.79	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.96	17.01	34.77	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

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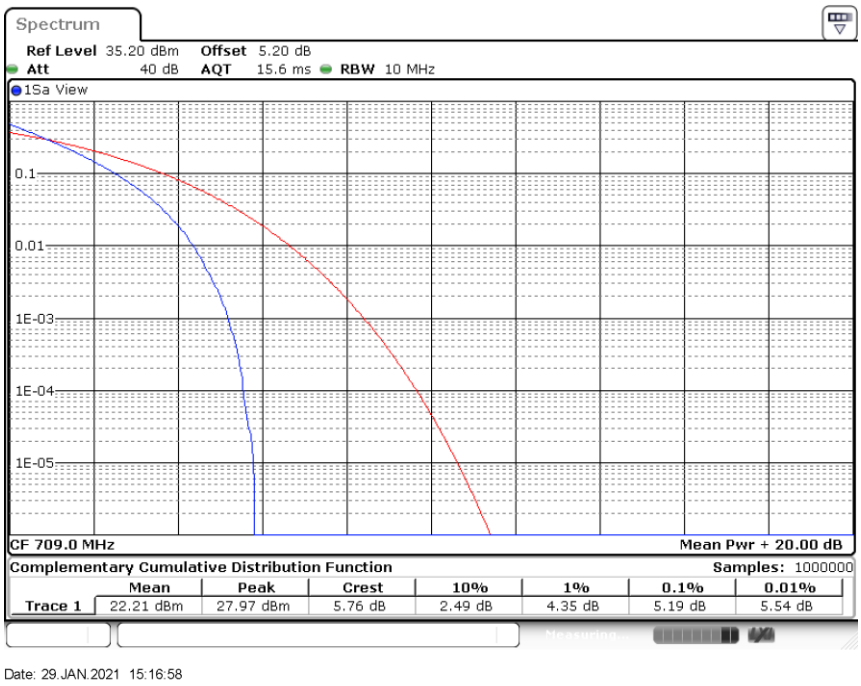
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	5.19	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.13	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	4.99	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.00	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	5.94	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	5.88	13	PASS

2.2. Test Plots

Band17-10MHz-QPSK-23780-50RB#0



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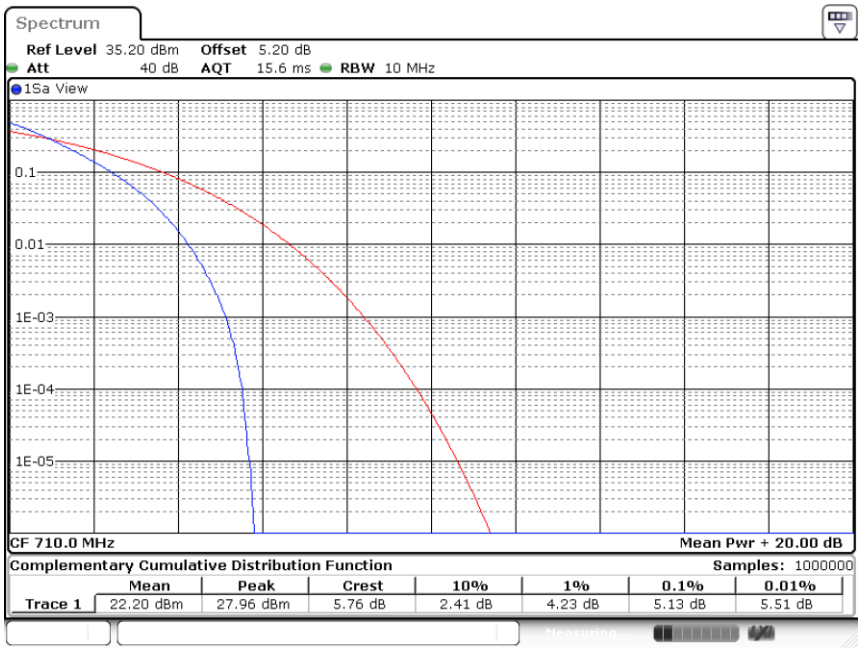
Band17-10MHz-QPSK-23790-50RB#0



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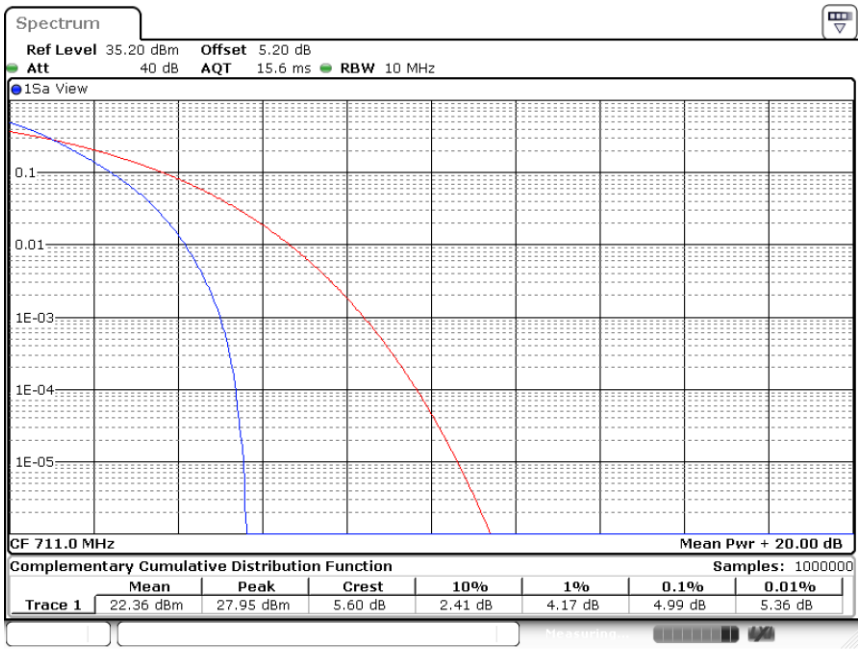
Band17-10MHz-QPSK-23800-50RB#0



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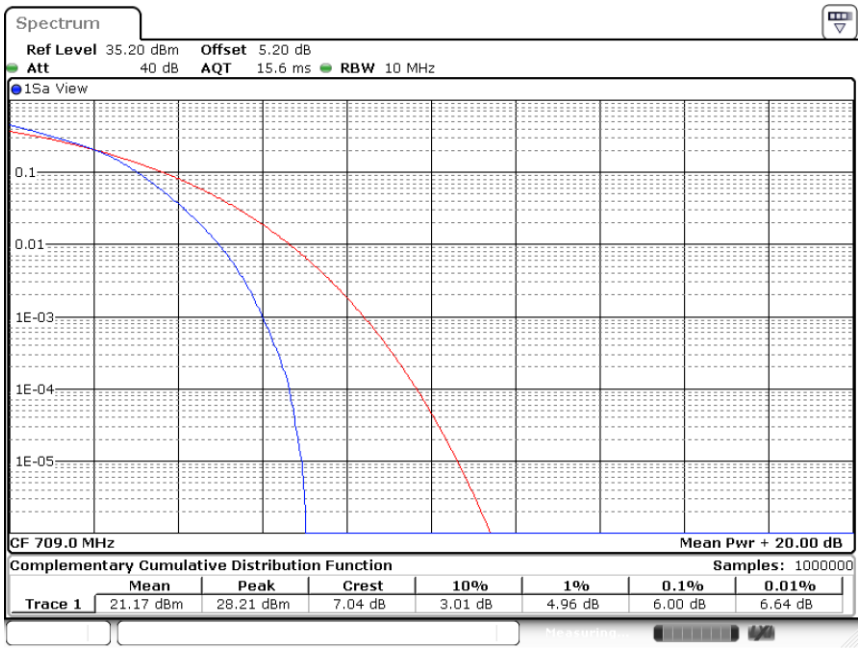
Band17-10MHz-16QAM-23780-50RB#0



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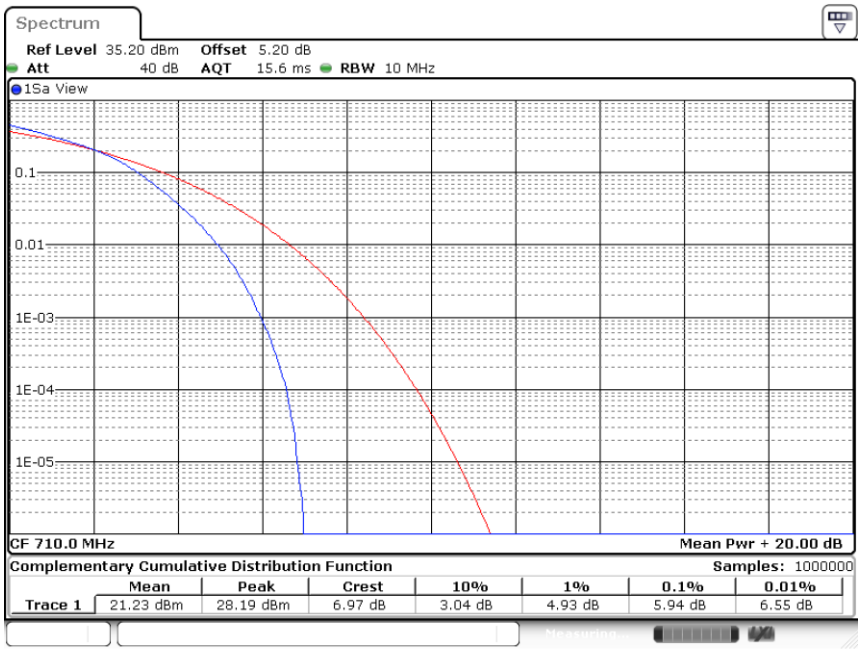
Band17-10MHz-16QAM-23790-50RB#0



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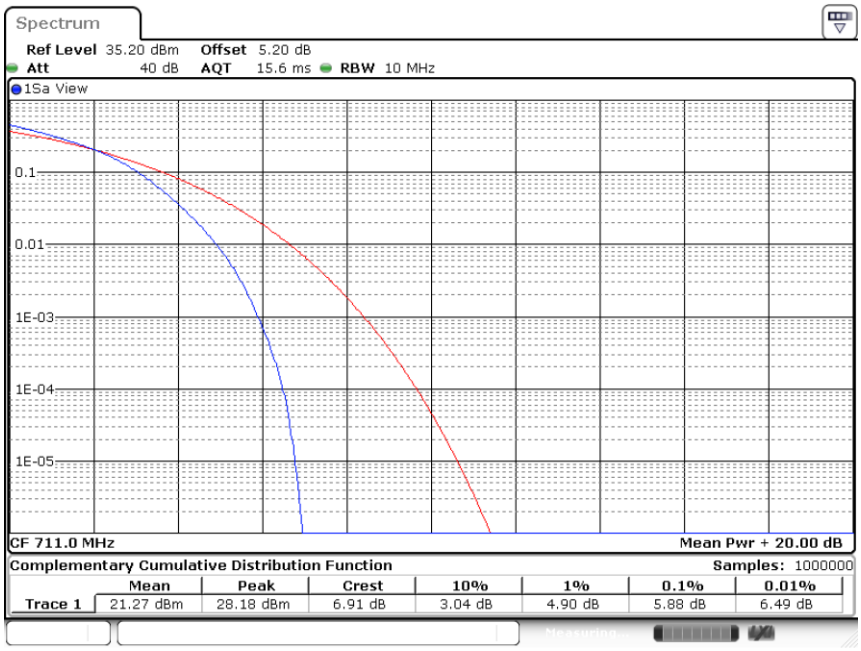
Band17-10MHz-16QAM-23800-50RB#0



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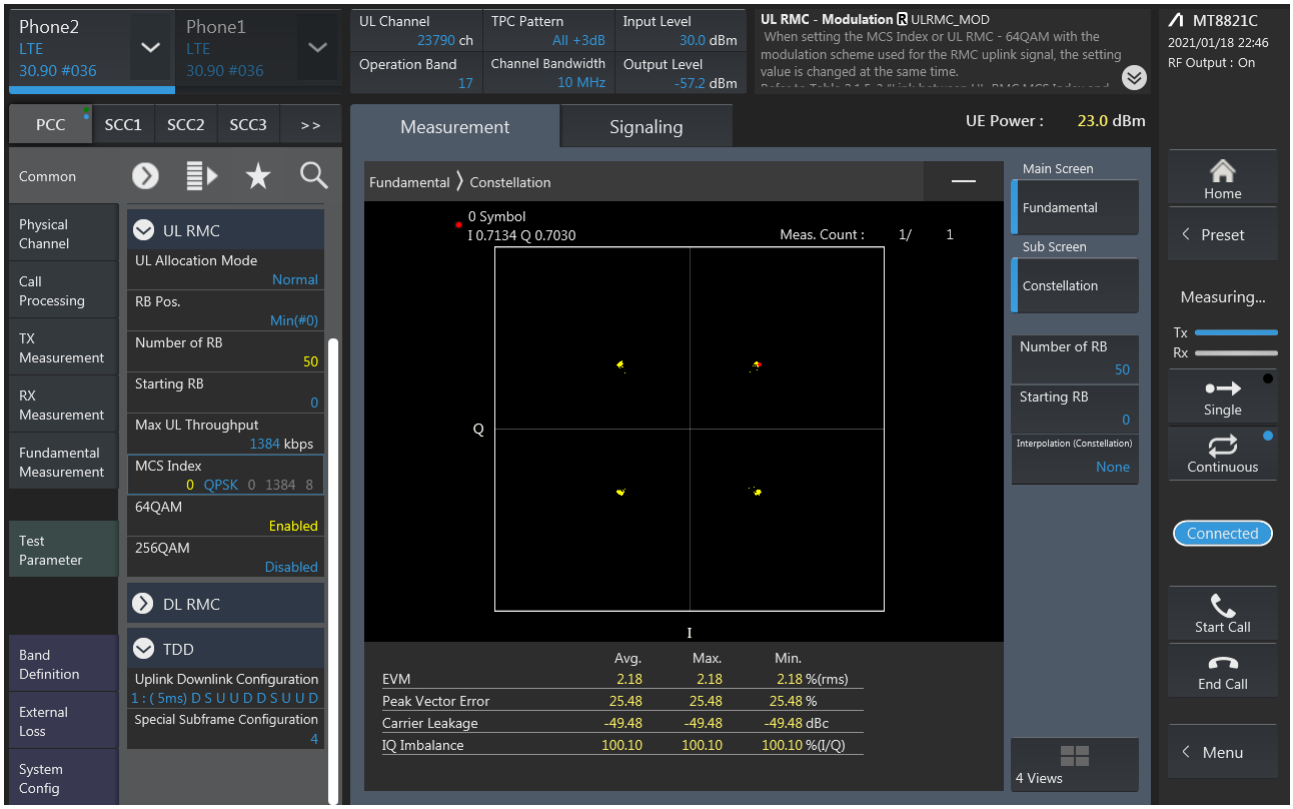
3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1.Test Channel = MCH



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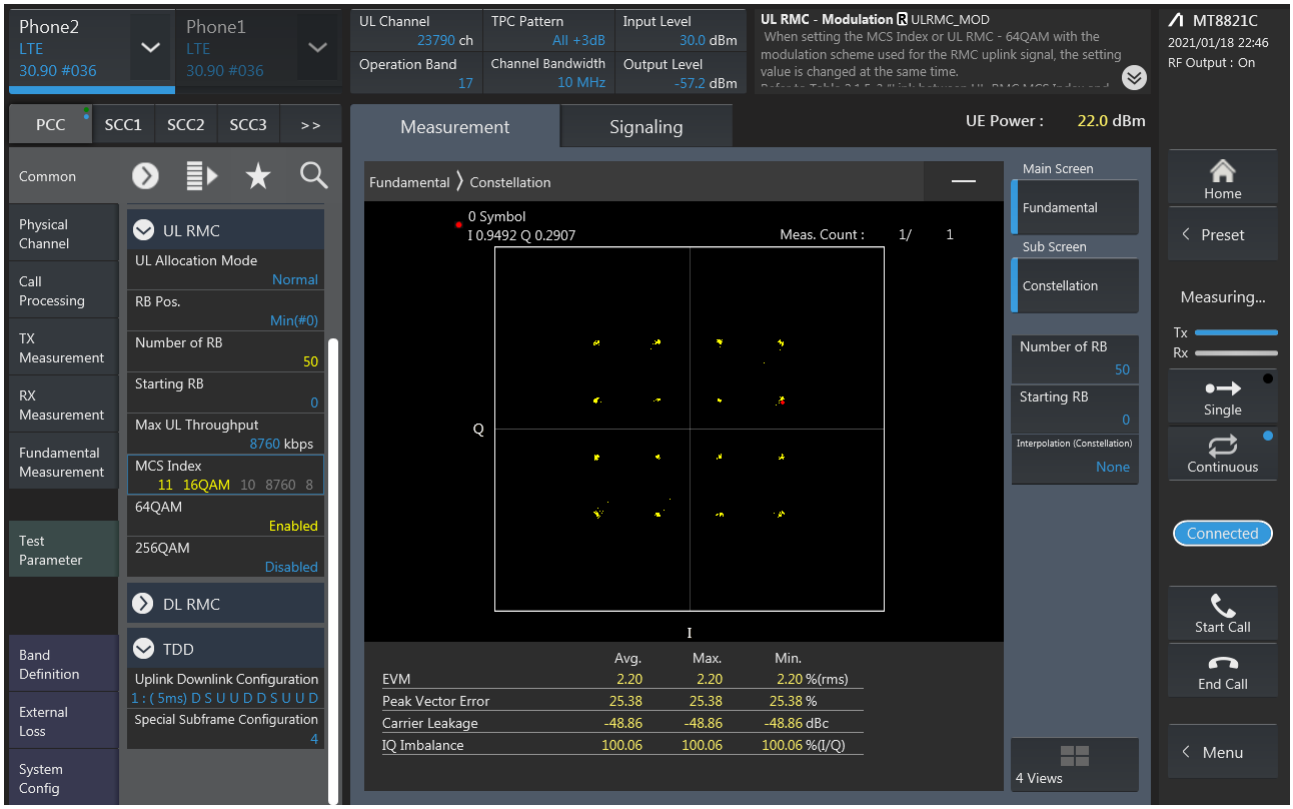
3.2. Test Mode = LTE /TM2 10MHz

3.2.1.Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.476	4.960	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.476	4.940	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.476	4.910	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.486	4.940	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.486	4.950	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.486	4.960	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.951	9.760	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.931	9.800	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.931	9.720	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.951	9.800	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.951	9.780	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.951	9.760	PASS

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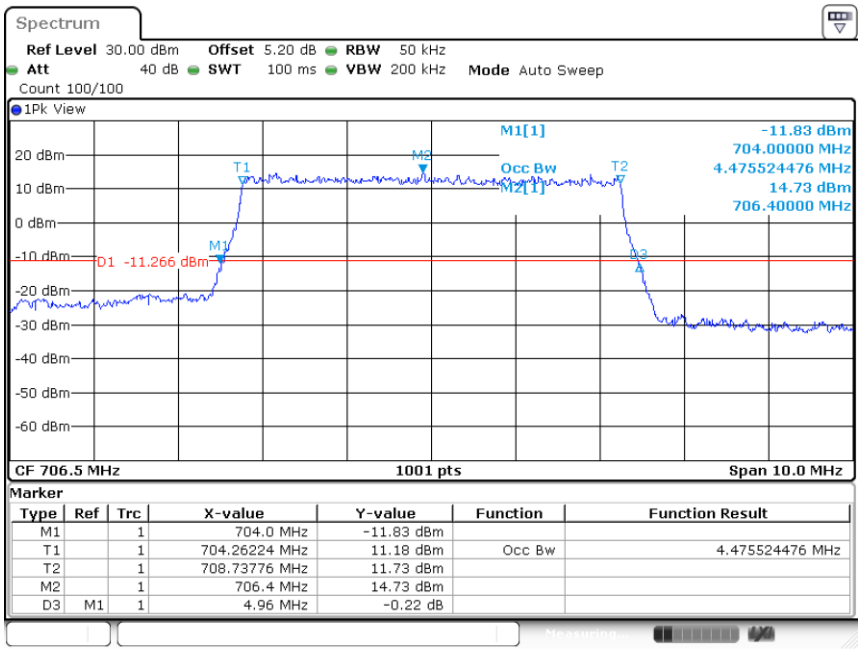
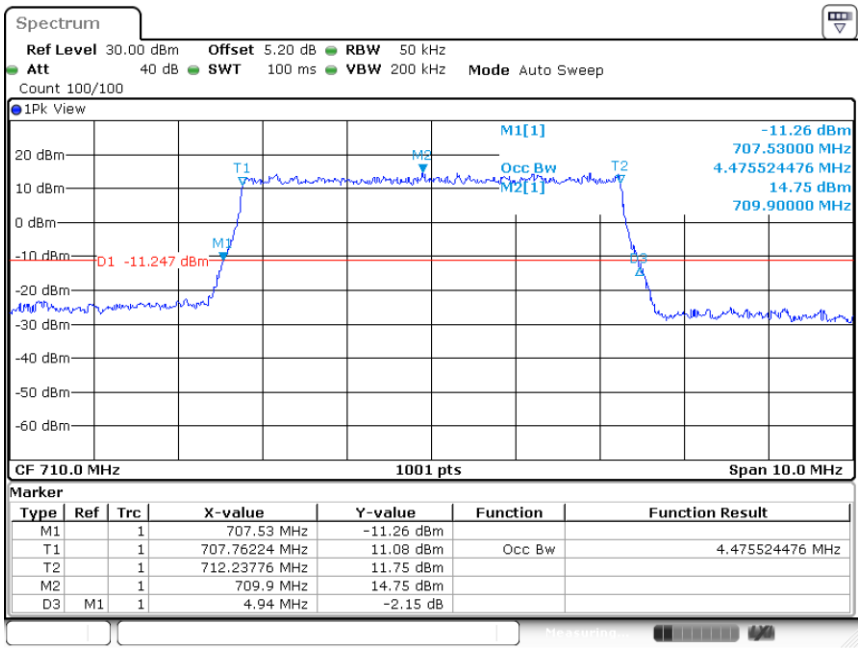
4.2. Test Plots

Band17-5MHz-QPSK-23755-25RB#0-4.476



Band17-5MHz-QPSK-23790-25RB#0-4.476



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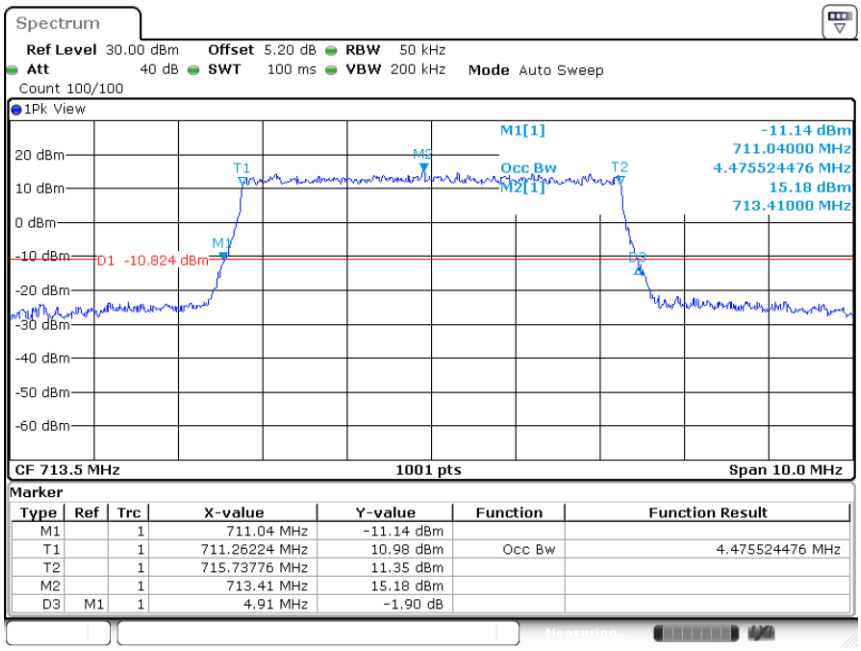
Band17-5MHz-QPSK-23825-25RB#0-4.476



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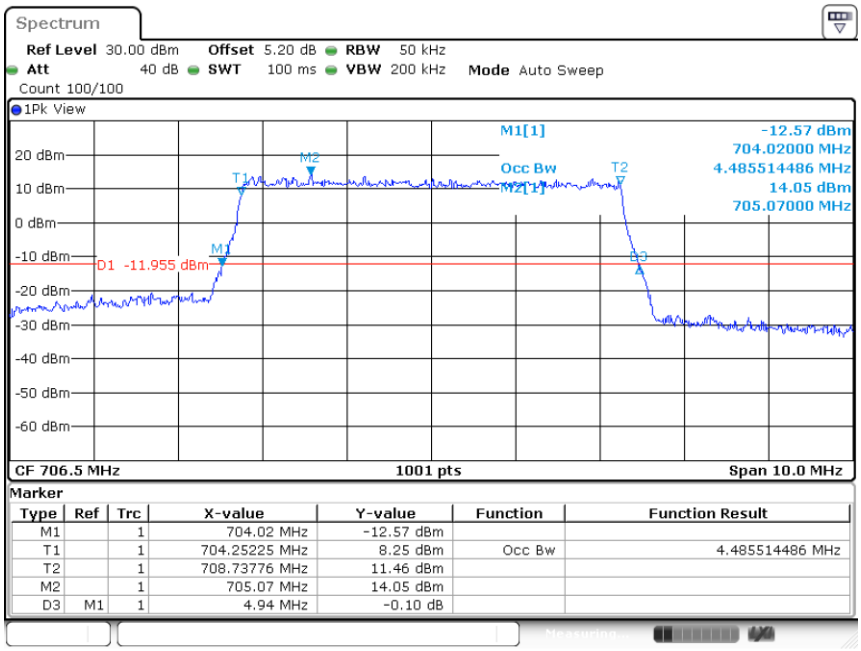
Band17-5MHz-16QAM-23755-25RB#0-4.486



Date: 29.JAN.2021 14:59:25

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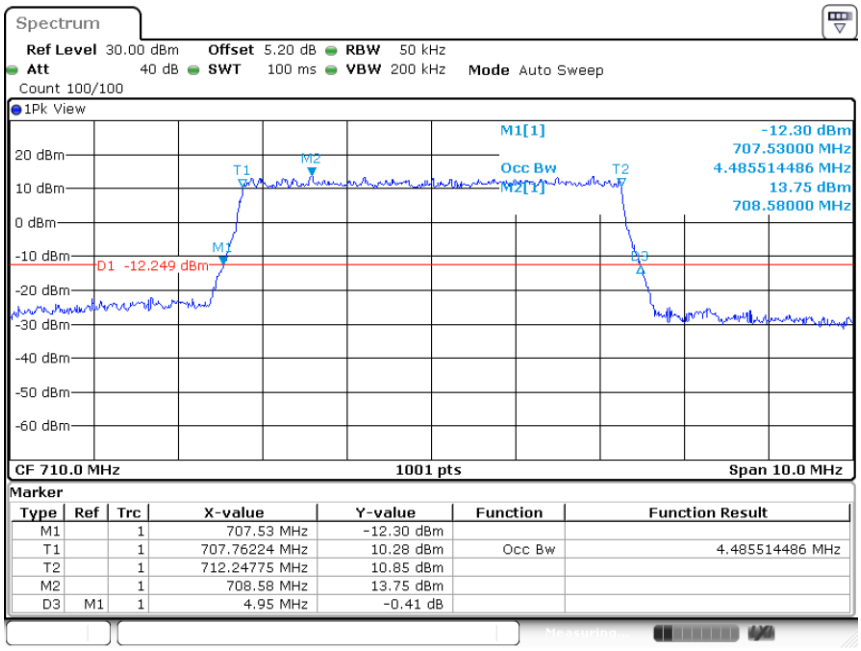
Band17-5MHz-16QAM-23790-25RB#0-4.486

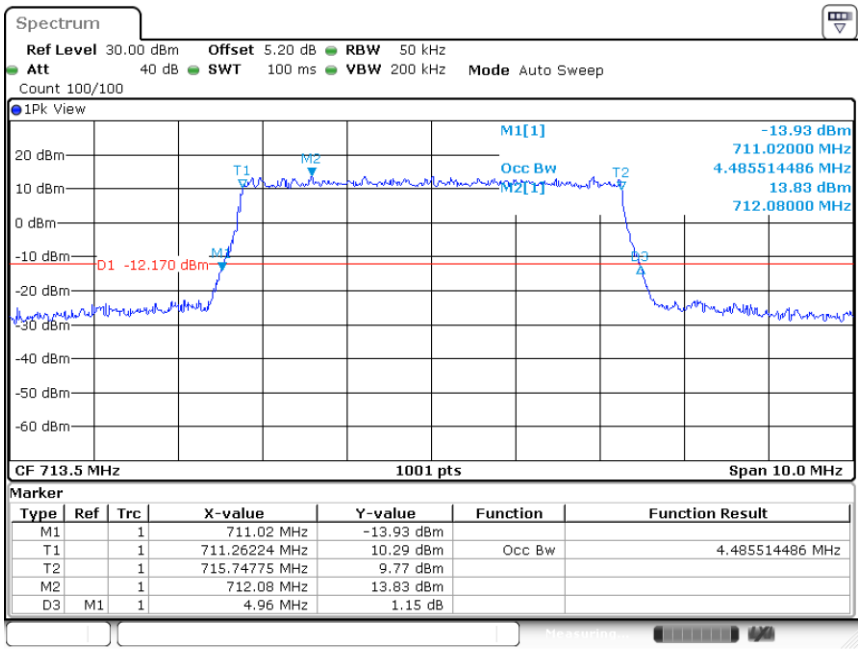


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	707.53 MHz	-12.30 dBm		
T1		1	707.76224 MHz	10.28 dBm	Occ Bw	4.485514486 MHz
T2		1	712.24775 MHz	10.85 dBm		
M2		1	708.58 MHz	13.75 dBm		
D3	M1	1	4.95 MHz	-0.41 dB		

Date: 29.JAN.2021 15:00:05

Band17-5MHz-16QAM-23825-25RB#0-4.486



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	711.02 MHz	-13.93 dBm		
T1		1	711.26224 MHz	10.29 dBm	Occ Bw	4.485514486 MHz
T2		1	715.74775 MHz	9.77 dBm		
M2		1	712.08 MHz	13.83 dBm		
D3	M1	1	4.96 MHz	1.15 dB		

Date: 29.JAN.2021 15:00:44

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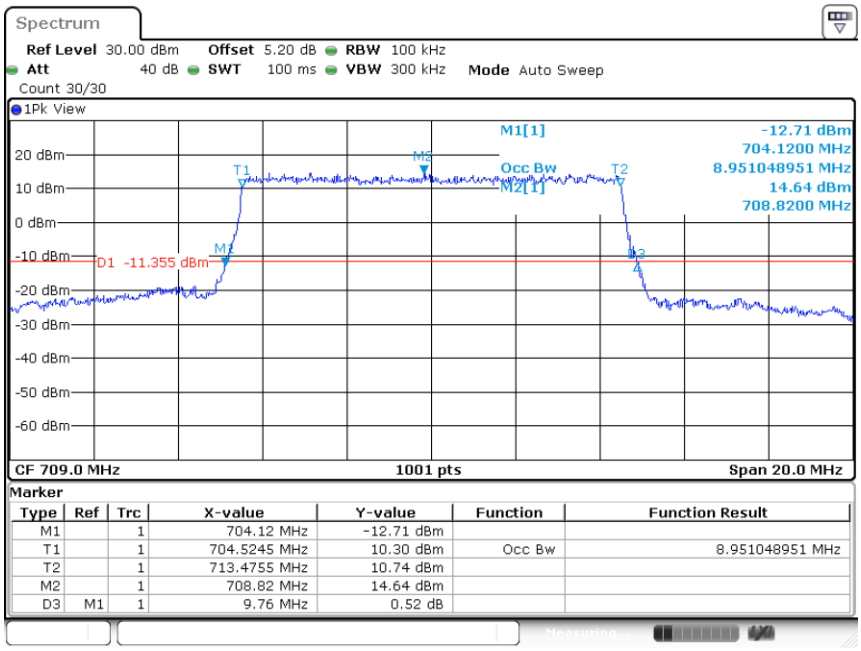
Band17-10MHz-QPSK-23780-50RB#0-8.951



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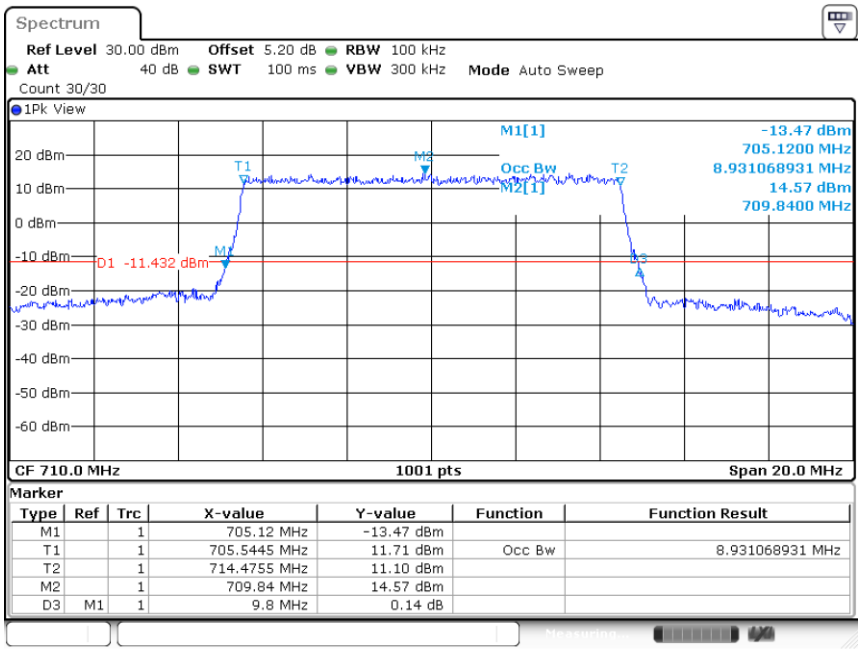
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	704.12 MHz	-12.71 dBm		
T1		1	704.5245 MHz	10.30 dBm	Occ Bw	8.951048951 MHz
T2		1	713.4755 MHz	10.74 dBm		
M2		1	708.82 MHz	14.64 dBm		
D3	M1	1	9.76 MHz	0.52 dB		

Date: 29.JAN.2021 15:01:02

Band17-10MHz-QPSK-23790-50RB#0-8.931



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	705.12 MHz	-13.47 dBm		
T1		1	705.5445 MHz	11.71 dBm	Occ Bw	8.931068931 MHz
T2		1	714.4755 MHz	11.10 dBm		
M2		1	709.84 MHz	14.57 dBm		
D3	M1	1	9.8 MHz	0.14 dB		

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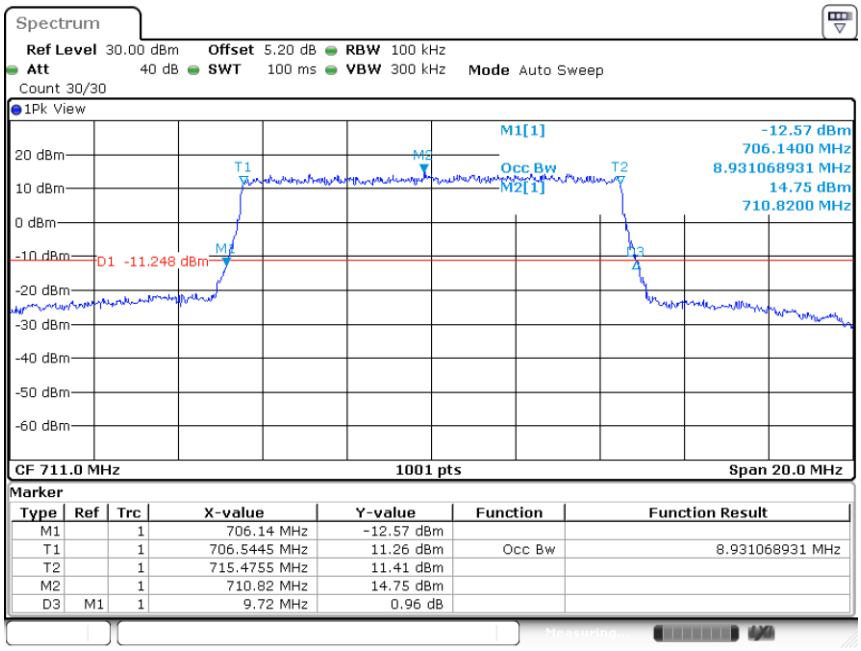
Band17-10MHz-QPSK-23800-50RB#0-8.931



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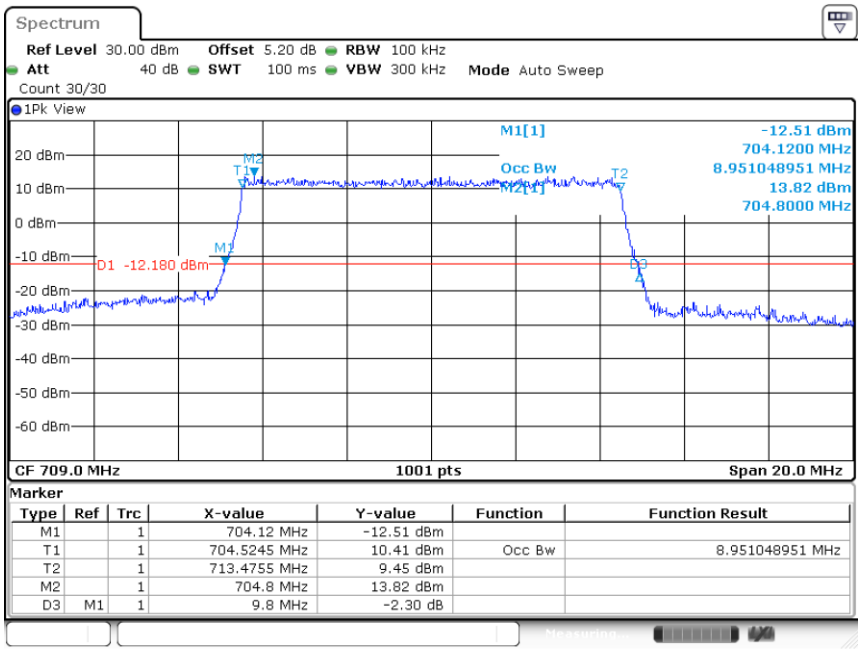
Band17-10MHz-16QAM-23780-50RB#0-8.951



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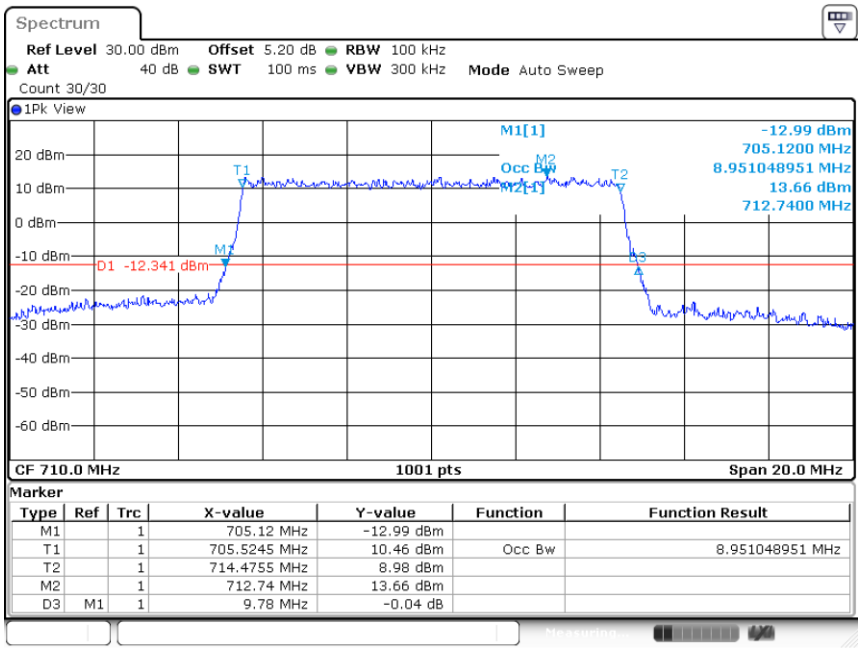

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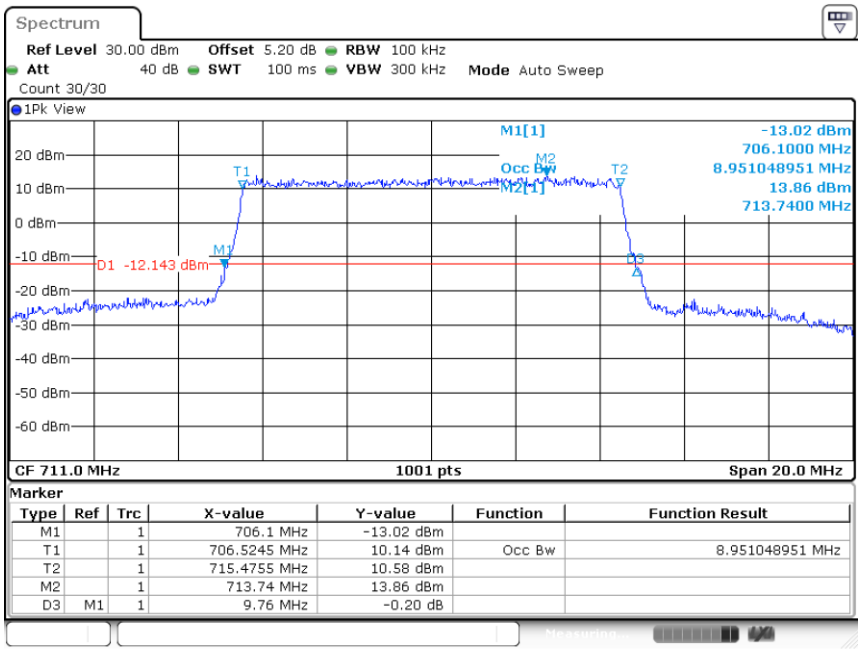
Band17-10MHz-16QAM-23800-50RB#0-8.951



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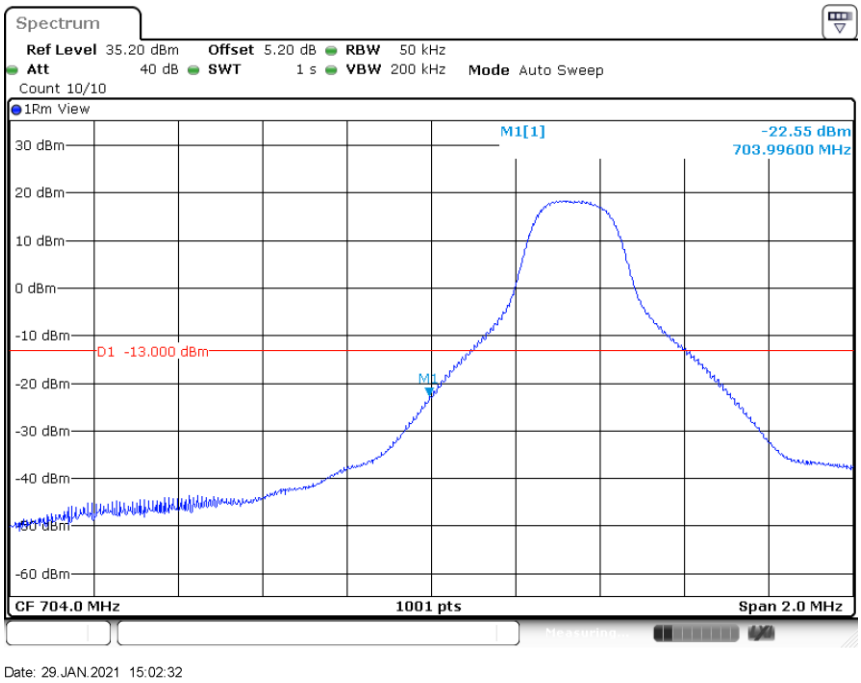
5. Band Edge Compliance

5.1. Test Plots

Band17-5MHz-QPSK-23755-1RB#0



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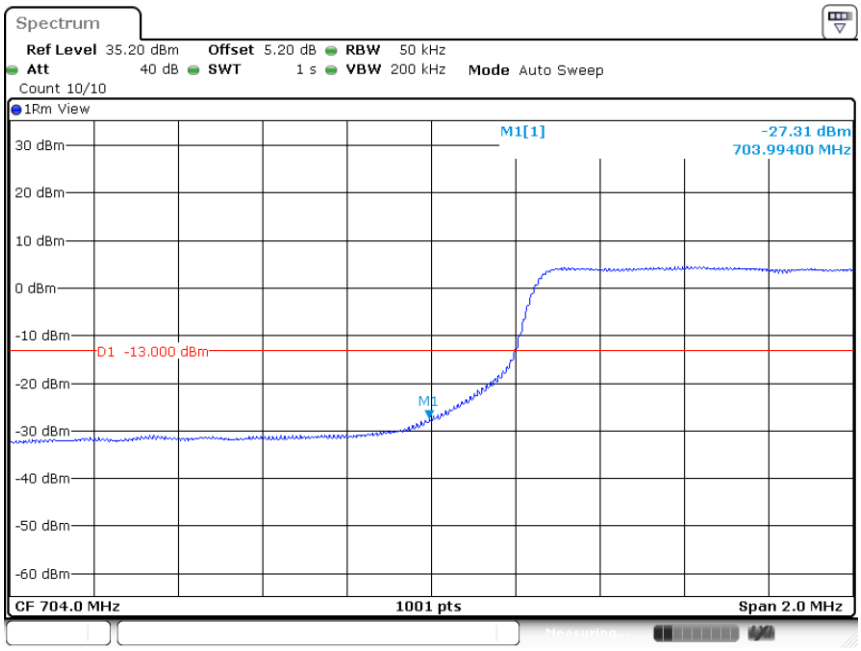

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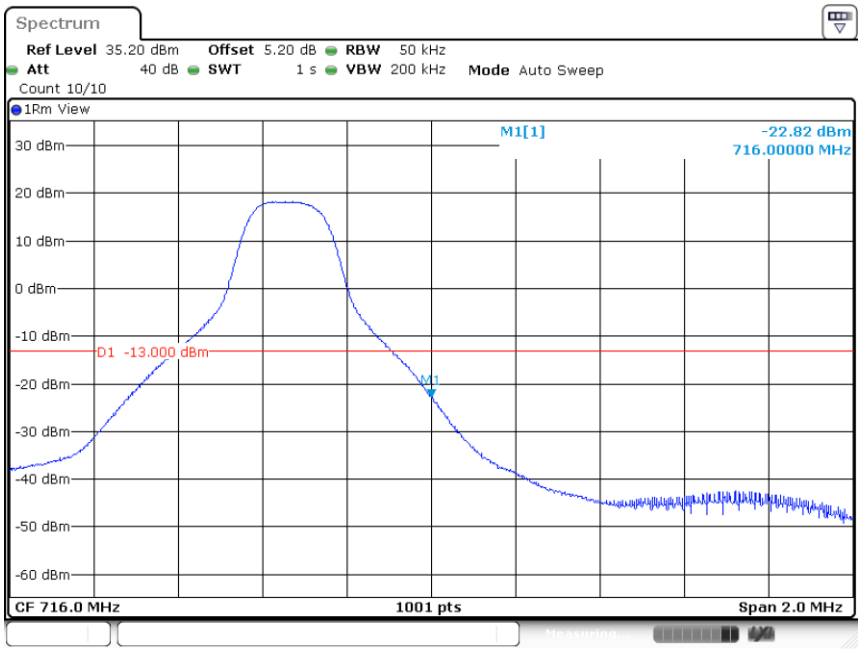
Band17-5MHz-QPSK-23825-1RB#24



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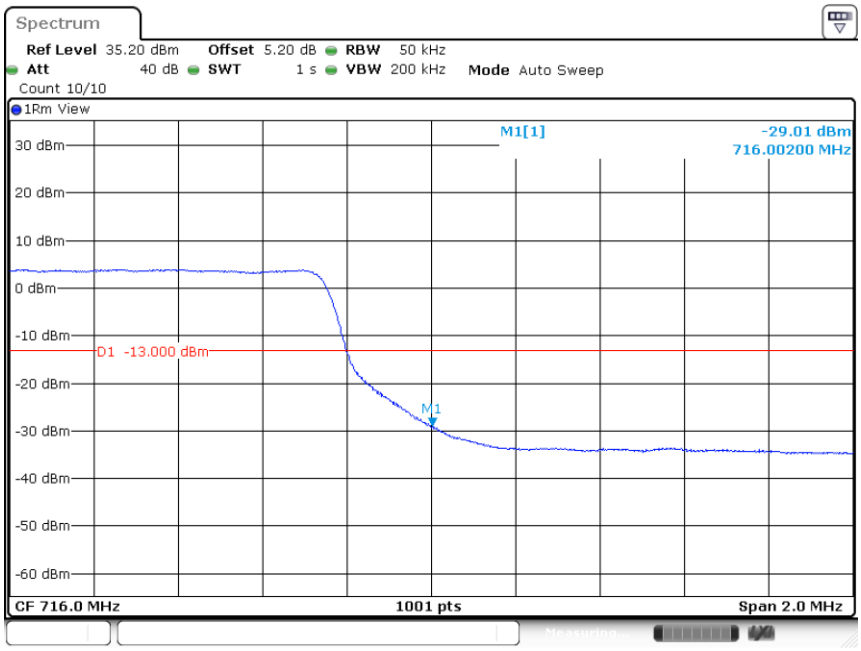

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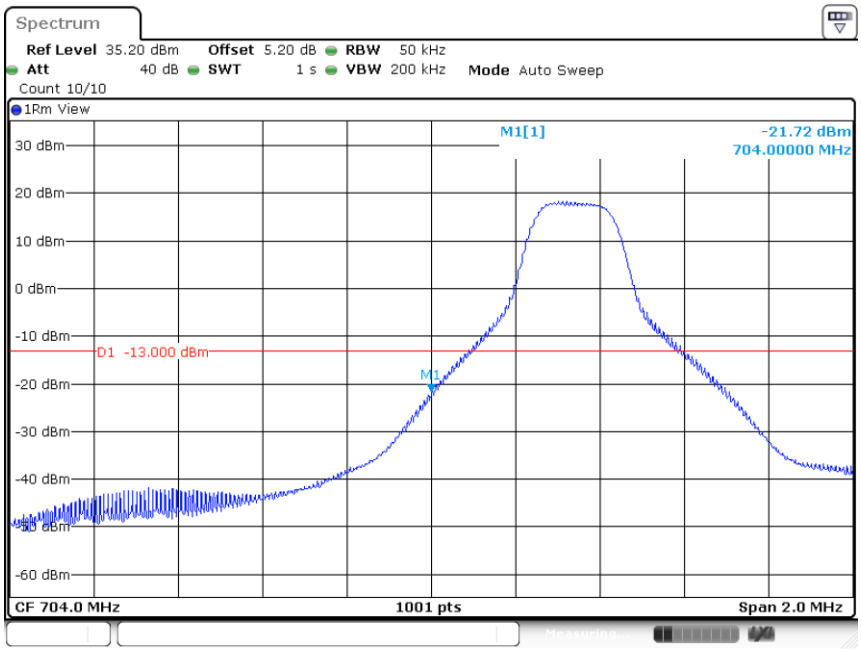
Band17-5MHz-16QAM-23755-1RB#0



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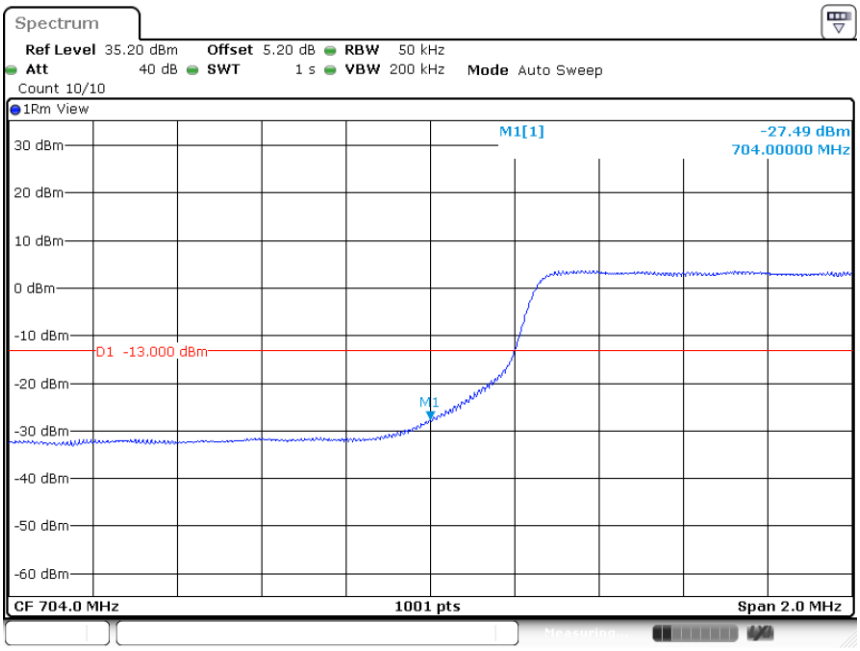

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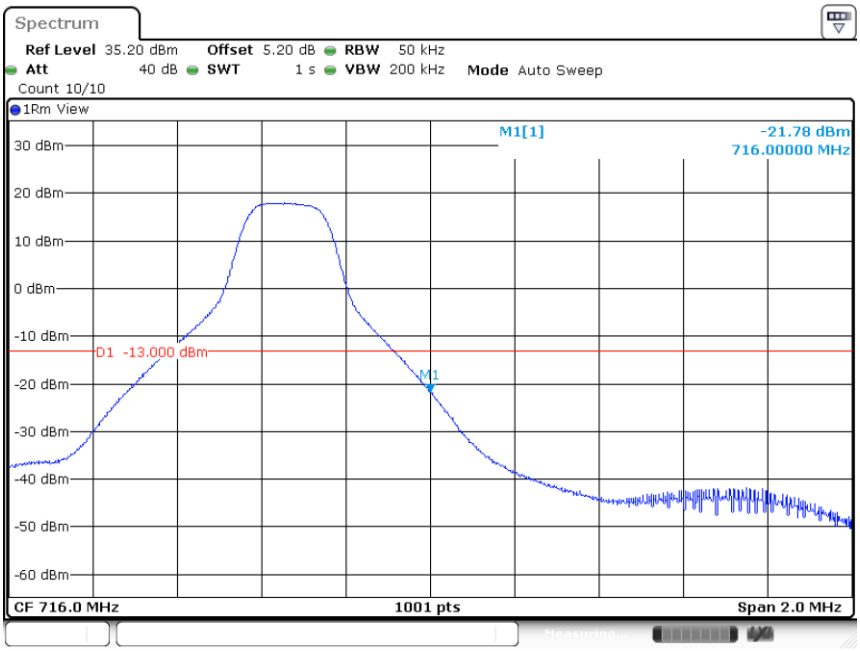
Band17-5MHz-16QAM-23825-1RB#24



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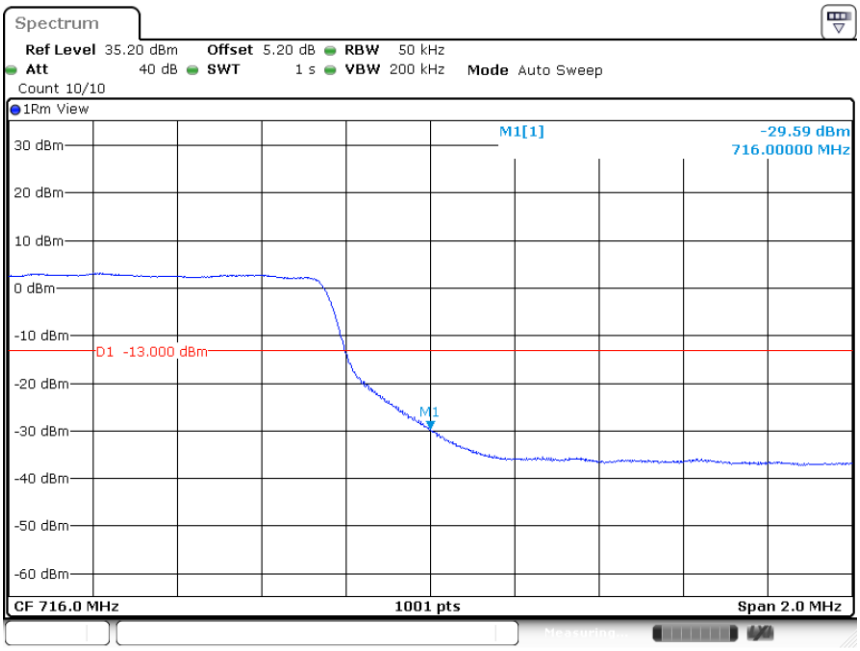
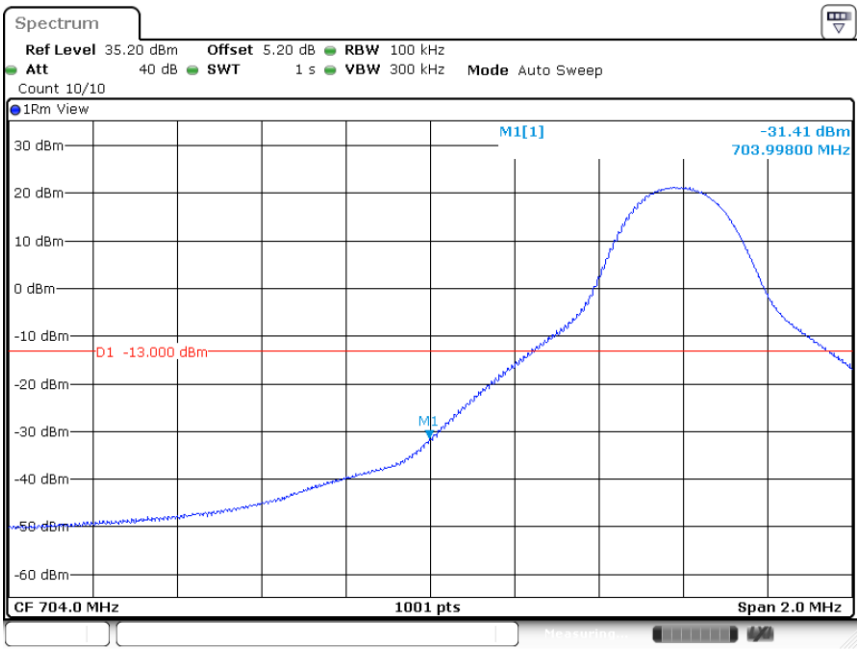
Band17-5MHz-16QAM-23825-25RB#0



Date: 29.JAN.2021 15:05:00

Band17-10MHz-QPSK-23780-1RB#0



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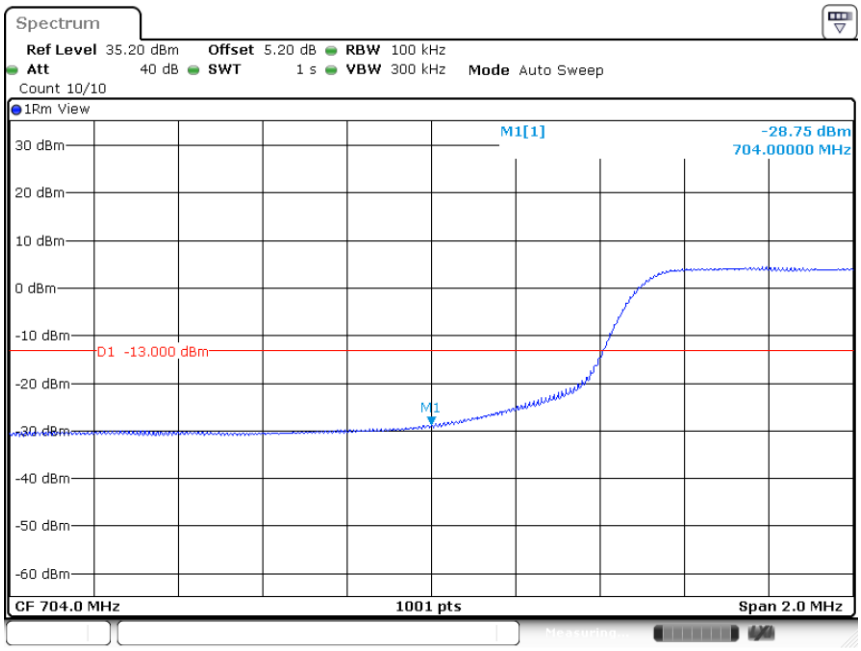
Band17-10MHz-QPSK-23780-50RB#0



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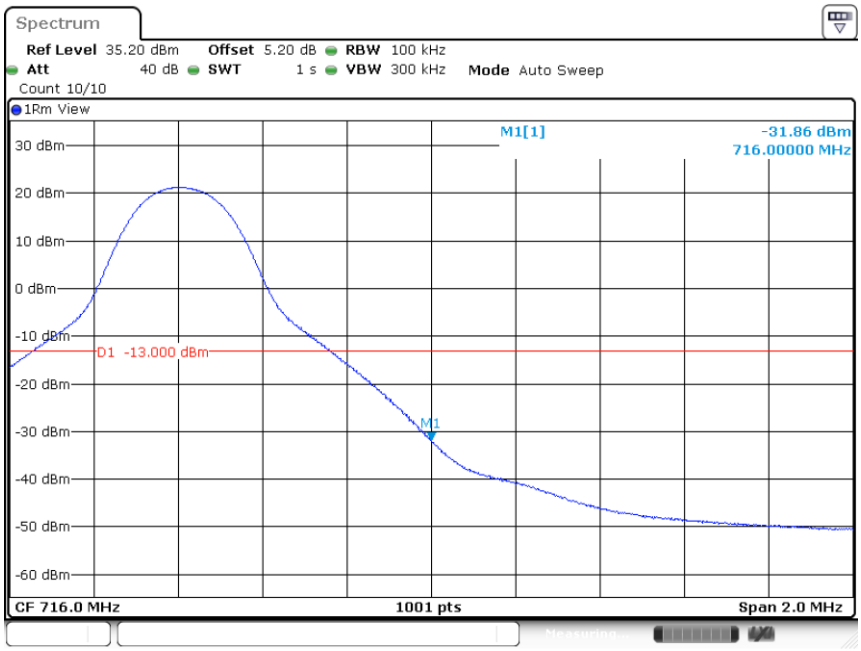

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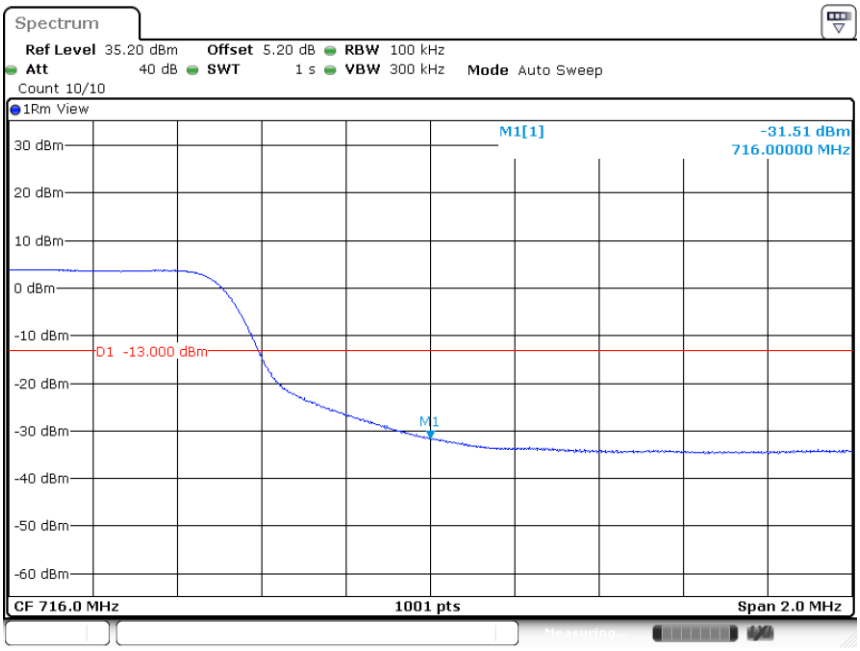

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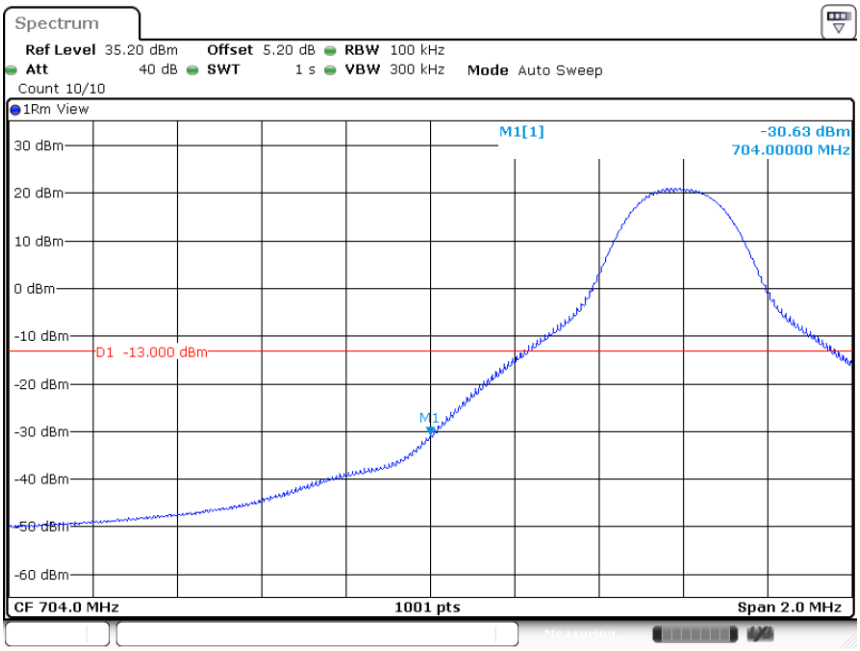

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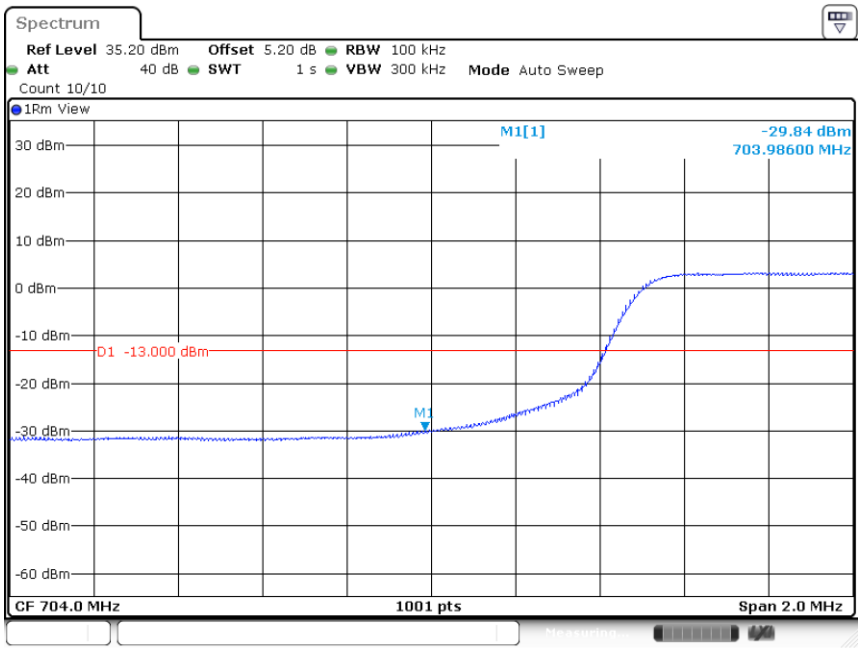
Band17-10MHz-16QAM-23780-50RB#0



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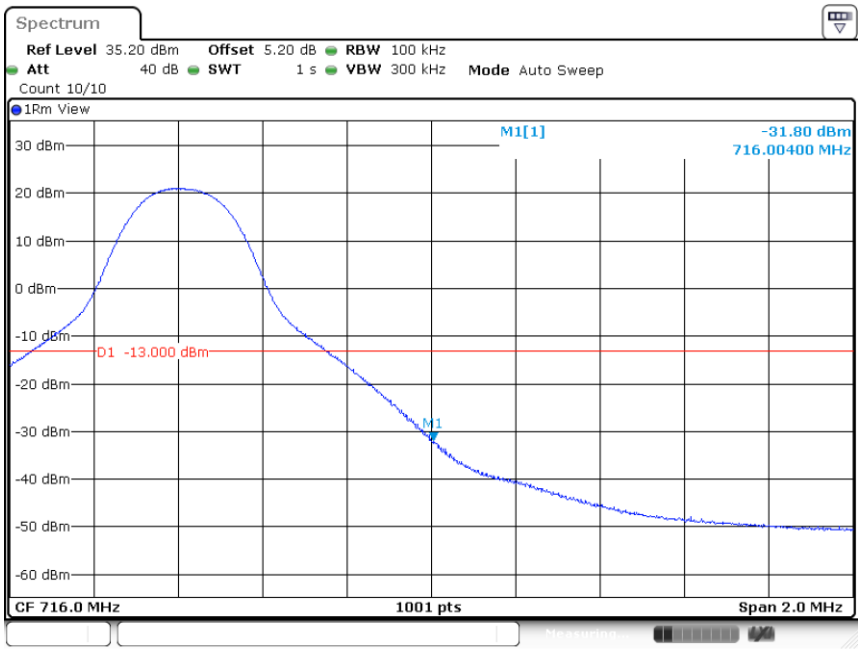
Band17-10MHz-16QAM-23800-1RB#49



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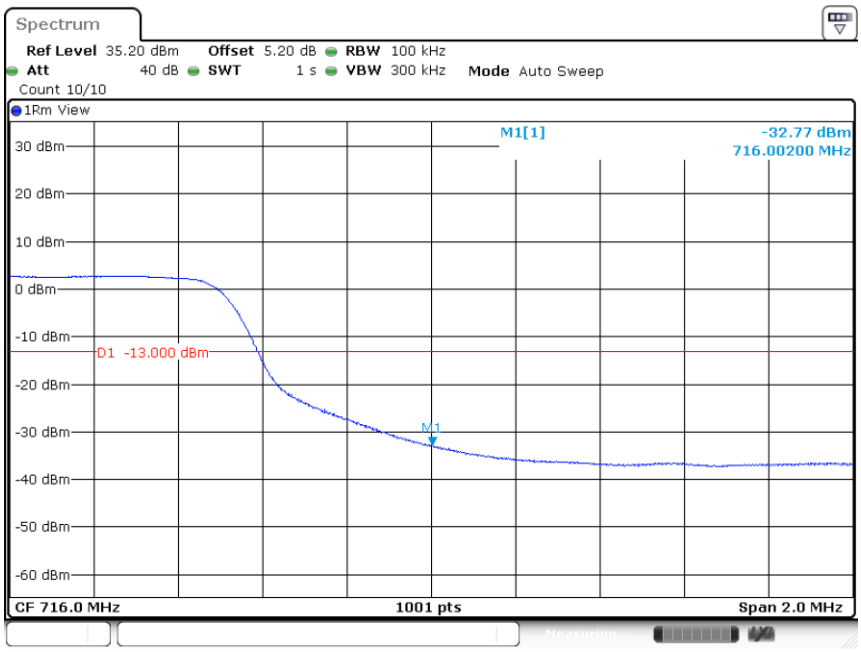

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6. Spurious Emission at Antenna Terminal

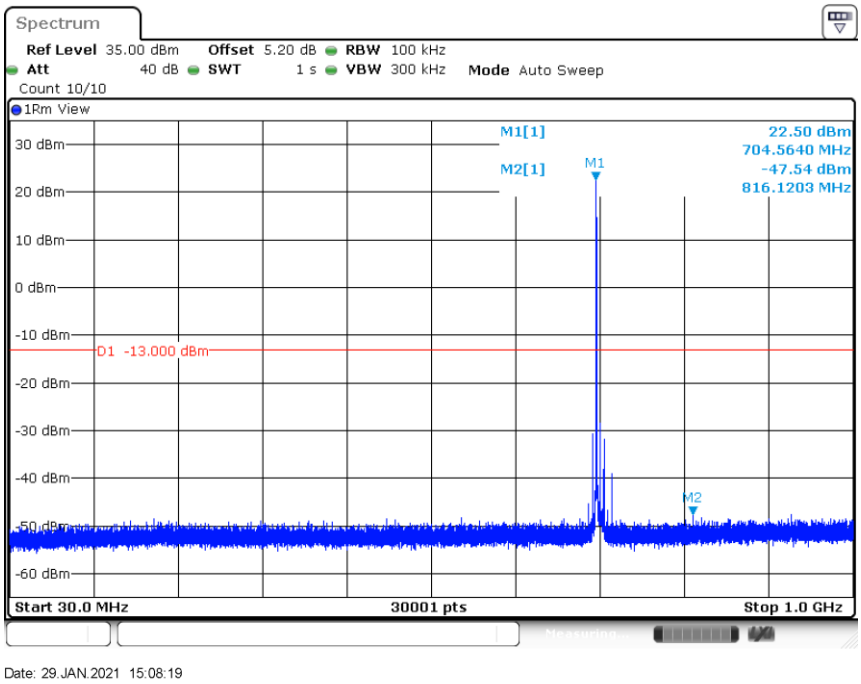
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

Remark3: The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

6.1. Test Plots

Band17-10MHz-QPSK-23780-1RB#0-Range1:30~1000MHz



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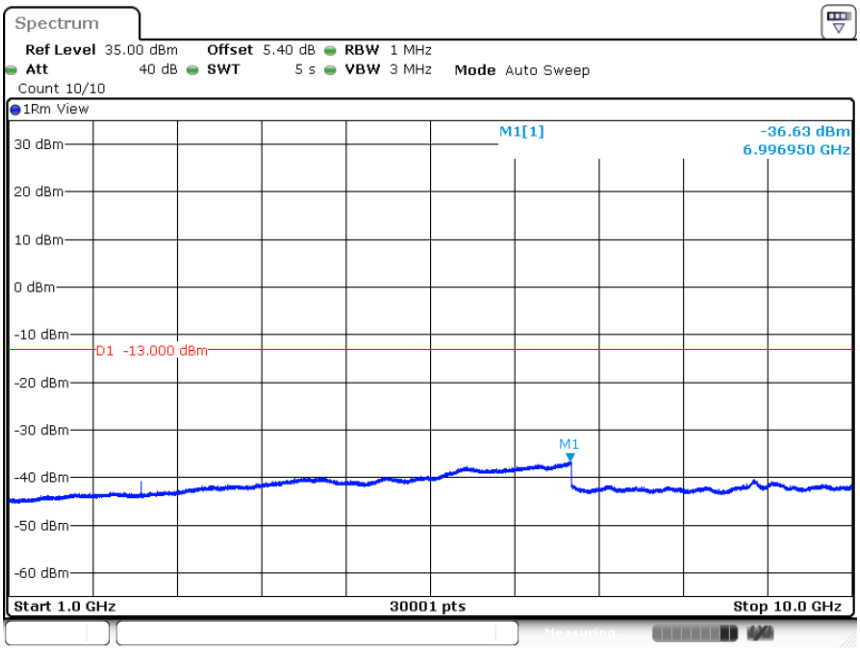
Band17-10MHz-QPSK-23780-1RB#0-Range2:1000~10000MHz



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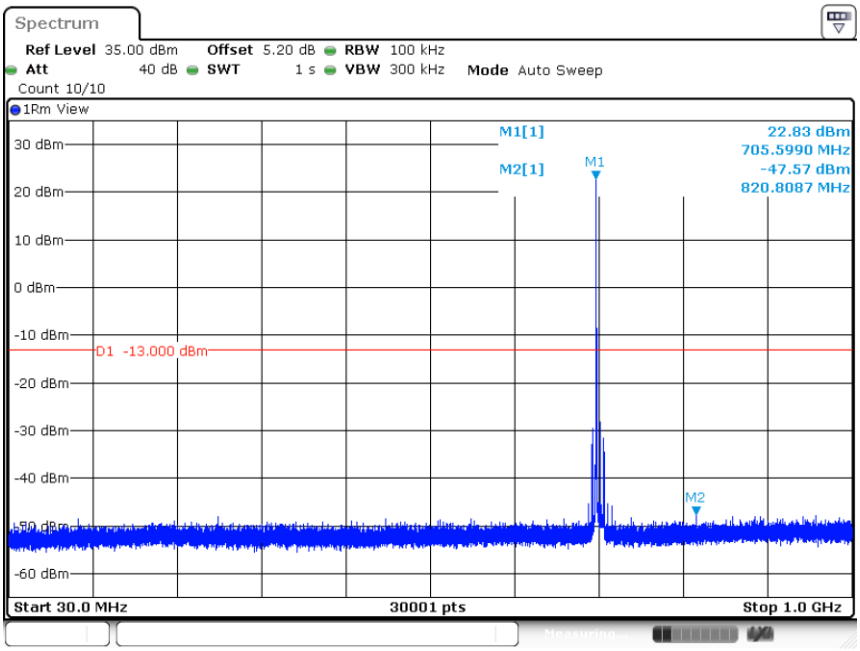
Band17-10MHz-QPSK-23790-1RB#0-Range1:30~1000MHz



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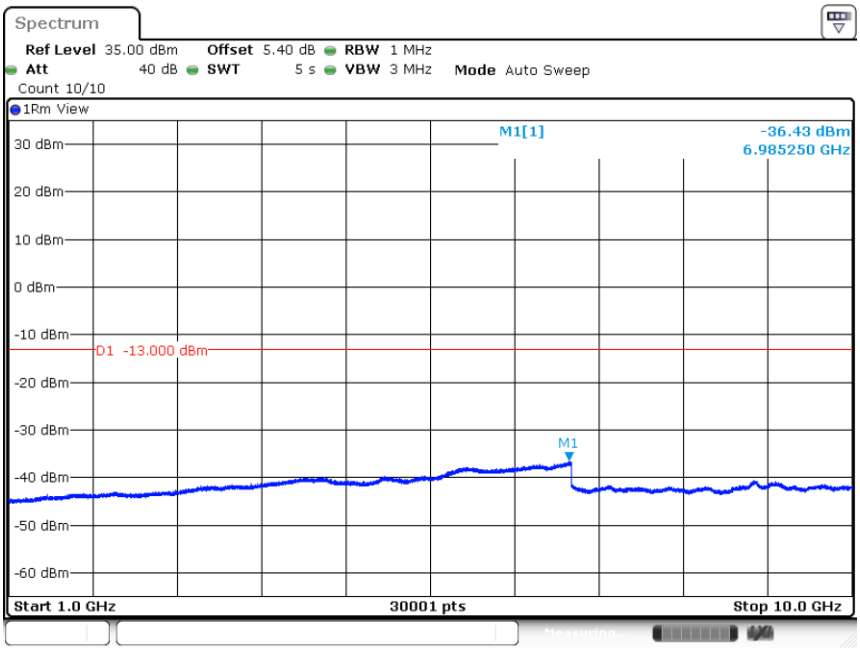

Date: 29.JAN.2021 15:12:21

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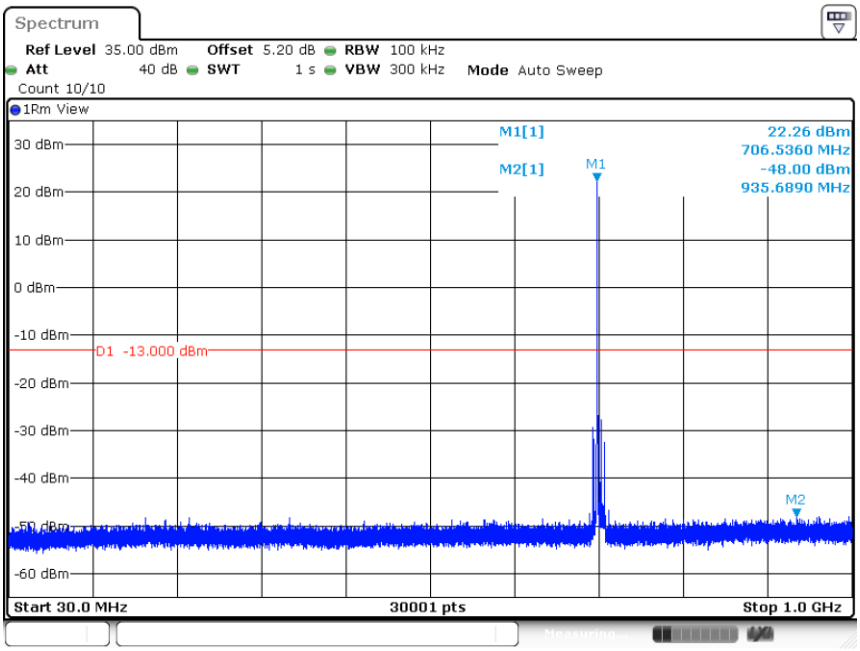

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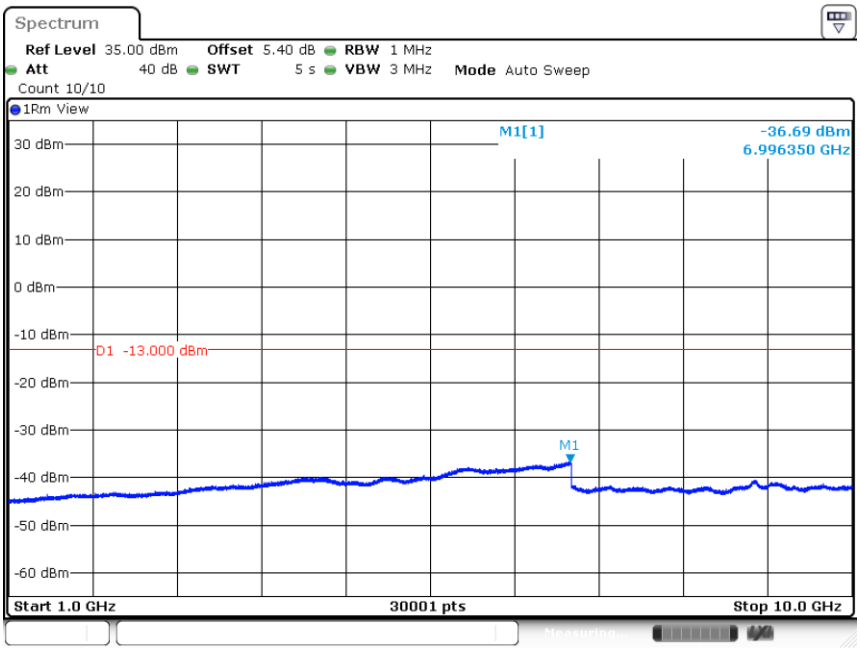

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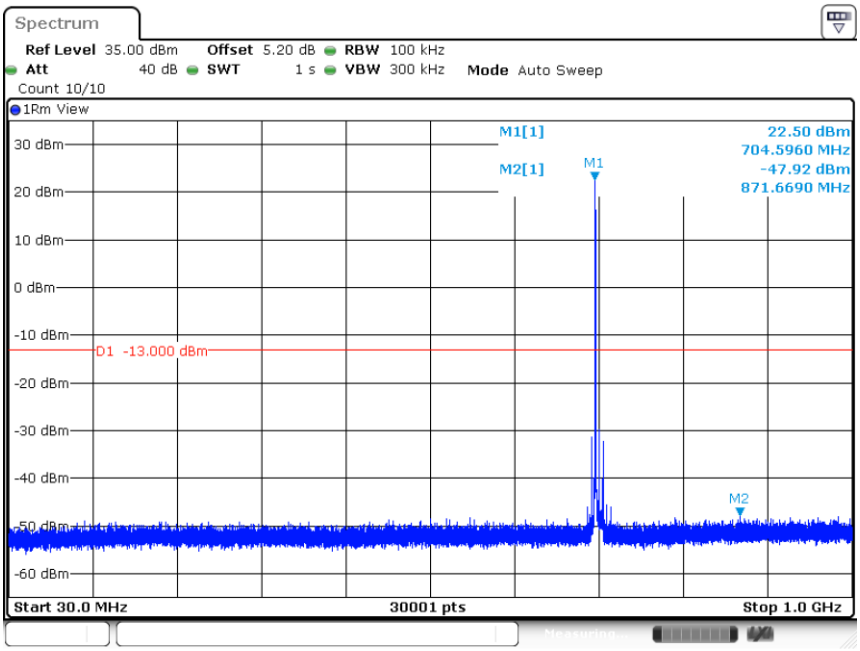

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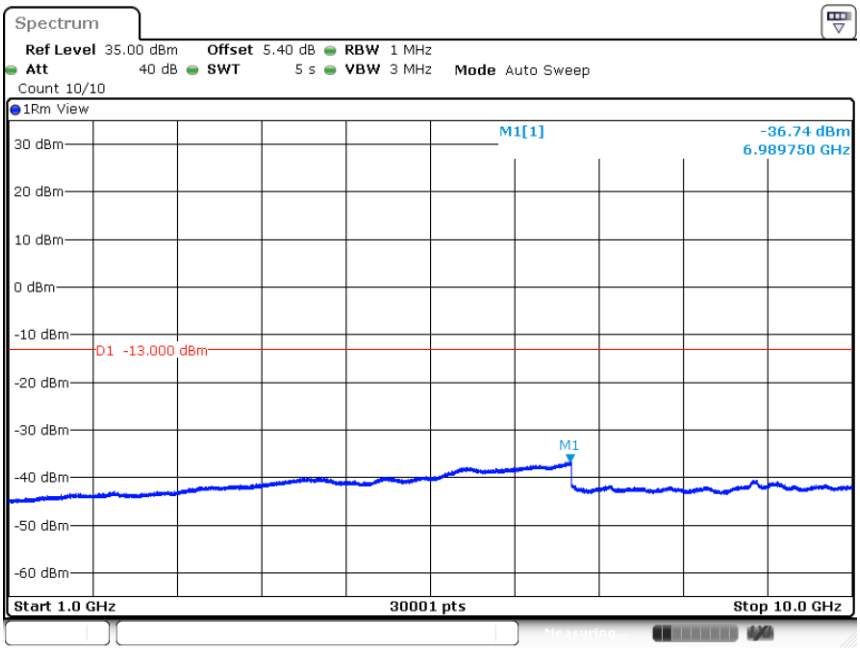

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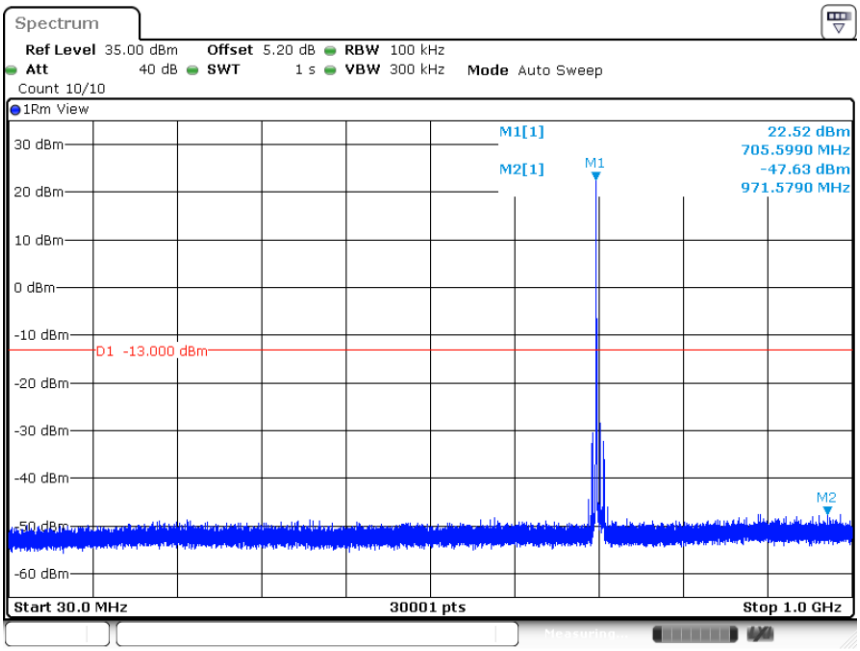

Date: 29.JAN.2021 15:12:41

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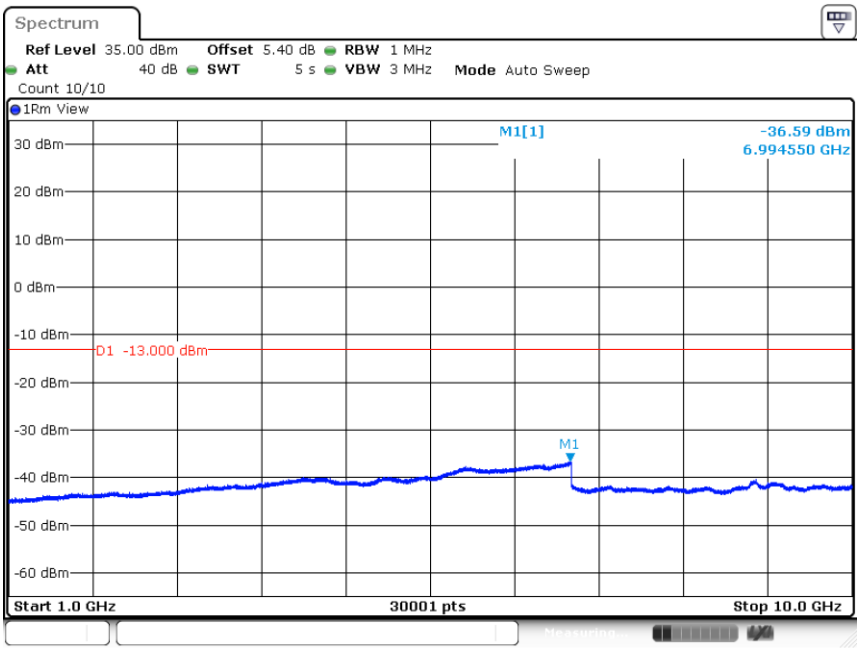
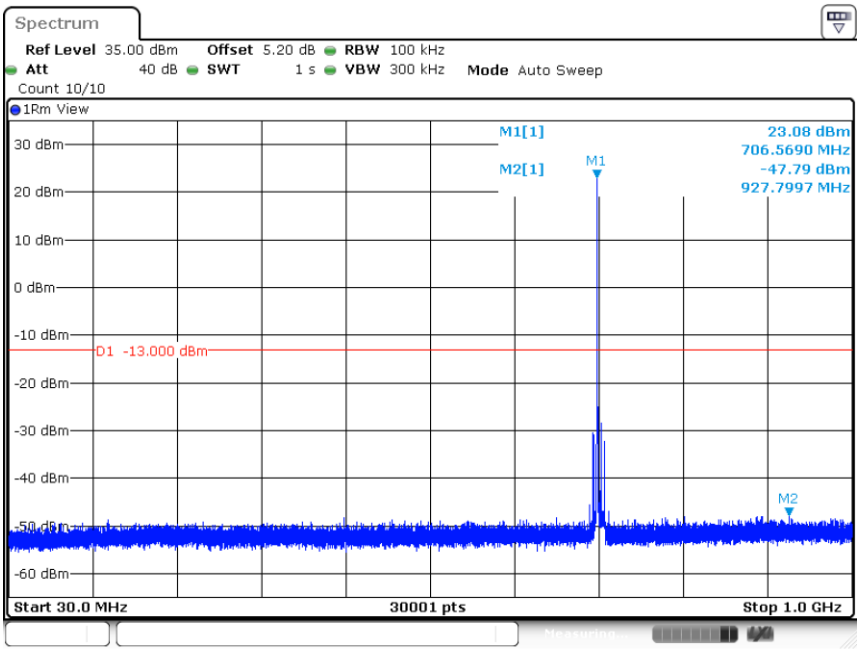
Band17-10MHz-16QAM-23790-1RB#0-Range2:1000~10000MHz



Date: 29.JAN.2021 15:13:48

Band17-10MHz-16QAM-23800-1RB#0-Range1:30~1000MHz



Date: 29.JAN.2021 15:15:35

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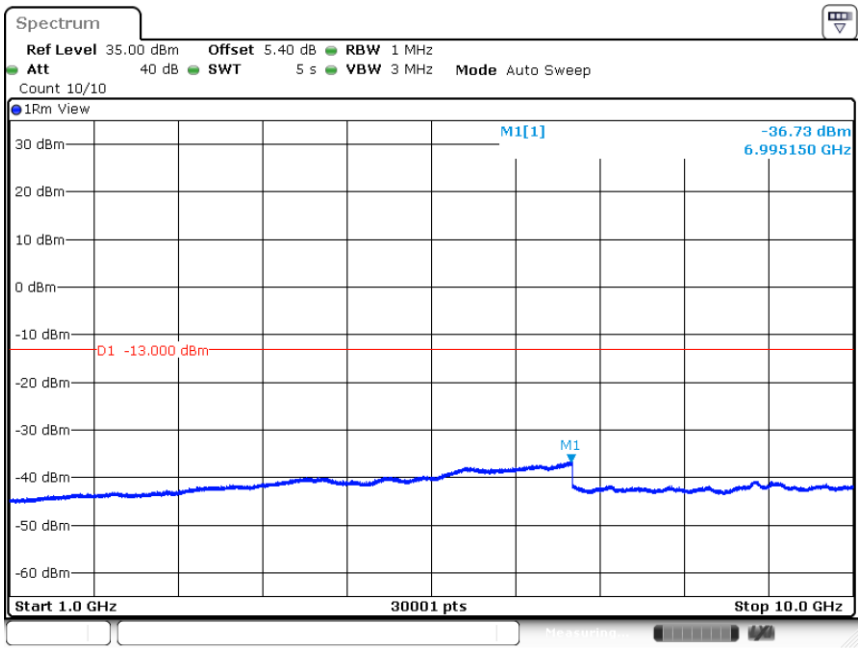
Band17-10MHz-16QAM-23800-1RB#0-Range2:1000~10000MHz


Date: 29.JAN.2021 15:16:43

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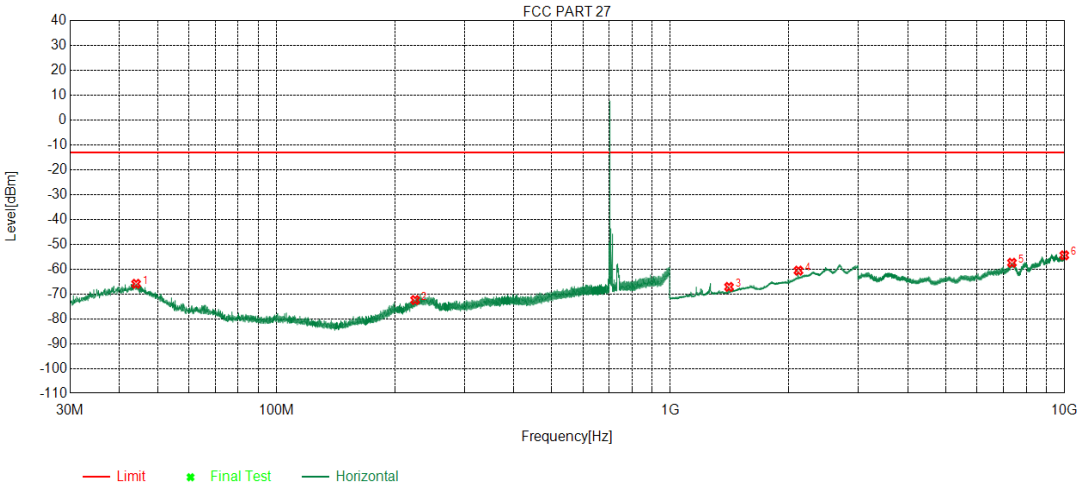
7. Field Strength of Spurious Radiation

7.1. Test Band = LTE_17 _TM1 DOWN ANT

7.1.1. Test Channel = Low Channel

Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.1142	-72.87	-65.90	-13.00	52.90	162	163	Horizontal
2	225.1738	-74.39	-72.43	-13.00	59.43	112	137	Horizontal
3	1408.8818	-69.41	-67.15	-13.00	54.15	175	317	Horizontal
4	2113.8228	-68.46	-60.58	-13.00	47.58	166	335	Horizontal
5	7356.9743	-57.26	-57.43	-13.00	44.43	242	329	Horizontal
6	9987.3995	-59.93	-54.42	-13.00	41.42	286	163	Horizontal

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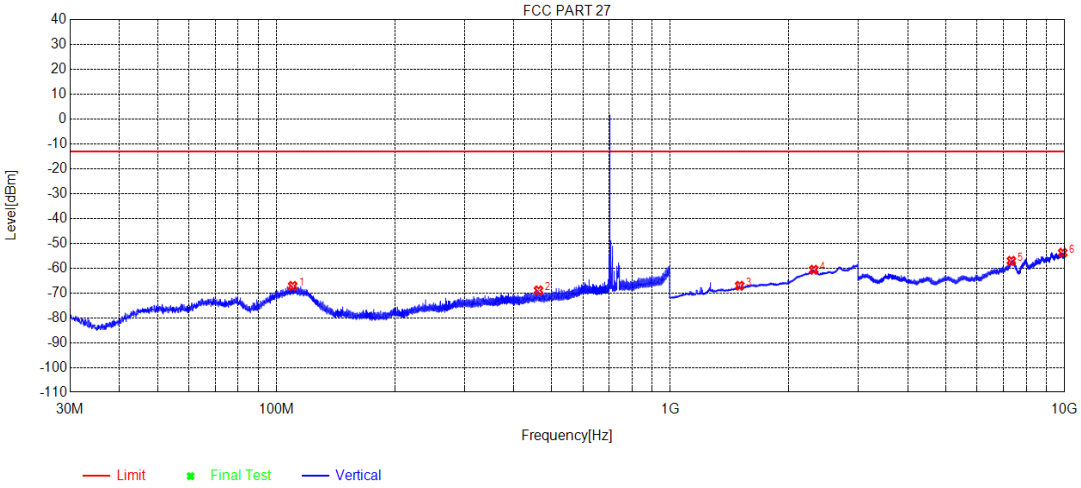
7.2. Test Band = LTE_17 _TM1 DOWN ANT

7.2.1. Test Channel = Low Channel

Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	110.1260	-73.54	-67.14	-13.00	54.14	175	216	Vertical
2	463.0297	-73.27	-68.97	-13.00	55.97	166	350	Vertical
3	1499.6999	-70.70	-67.09	-13.00	54.09	132	164	Vertical
4	2311.8624	-70.75	-60.64	-13.00	47.64	242	346	Vertical
5	7333.1733	-57.52	-57.02	-13.00	44.02	295	270	Vertical
6	9896.3959	-60.18	-53.80	-13.00	40.80	176	163	Vertical

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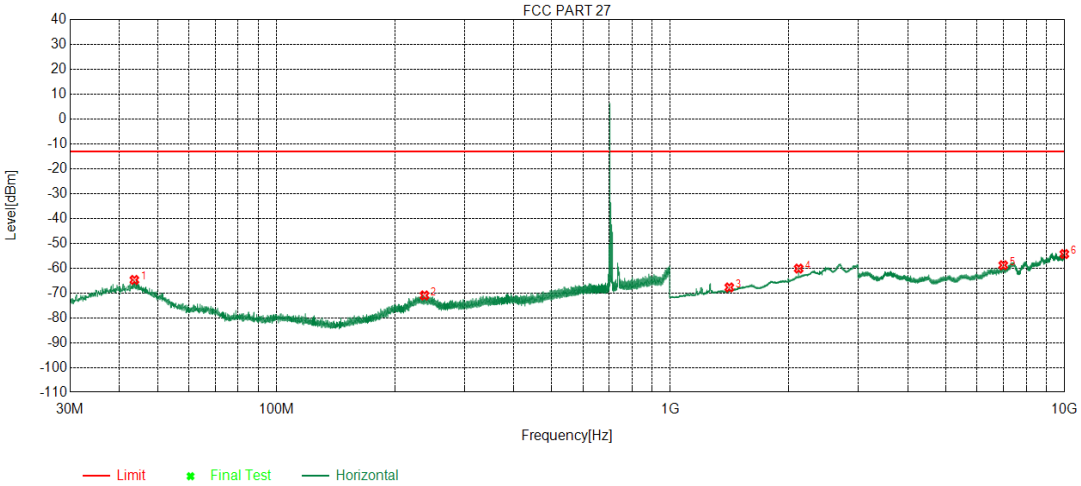
7.3. Test Band = LTE_17 _TM1 DOWN ANT

7.3.1. Test Channel = Mid Channel

Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.6777	-71.69	-64.74	-13.00	51.74	166	31	Horizontal
2	237.8329	-73.78	-70.98	-13.00	57.98	232	357	Horizontal
3	1411.2823	-70.04	-67.75	-13.00	54.75	285	313	Horizontal
4	2116.6233	-68.08	-60.17	-13.00	47.17	296	329	Horizontal
5	6991.8397	-56.86	-58.82	-13.00	45.82	284	110	Horizontal
6	9992.1597	-59.86	-54.32	-13.00	41.32	115	250	Horizontal

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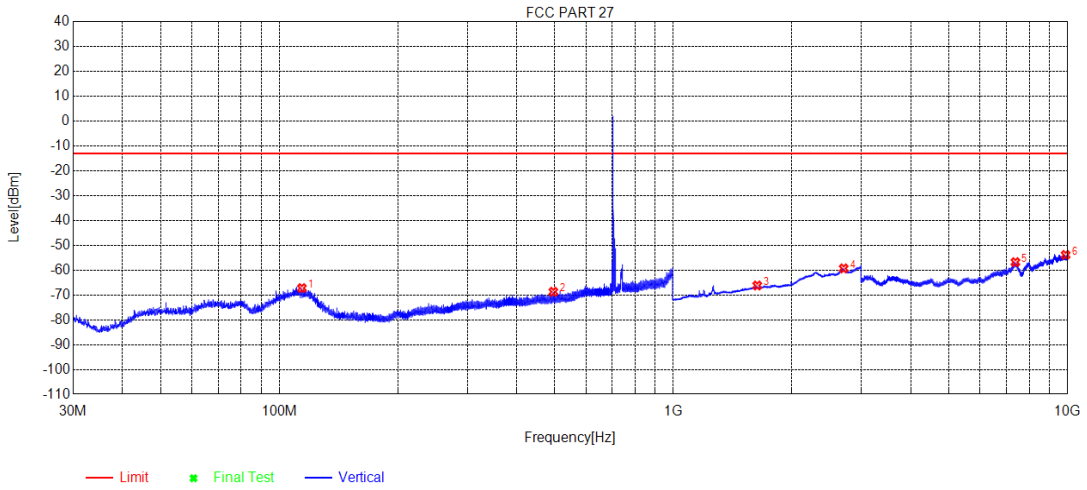
7.4. Test Band = LTE_17 _TM1 DOWN ANT

7.4.1. Test Channel = Mid Channel

Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	114.2002	-73.27	-67.23	-13.00	54.23	269	324	Vertical
2	496.2053	-73.24	-68.72	-13.00	55.72	266	110	Vertical
3	1632.5265	-70.81	-66.19	-13.00	53.19	242	279	Vertical
4	2705.5411	-70.92	-59.30	-13.00	46.30	132	313	Vertical
5	7376.8551	-57.31	-56.77	-13.00	43.77	284	164	Vertical
6	9891.6357	-60.24	-53.85	-13.00	40.85	168	270	Vertical

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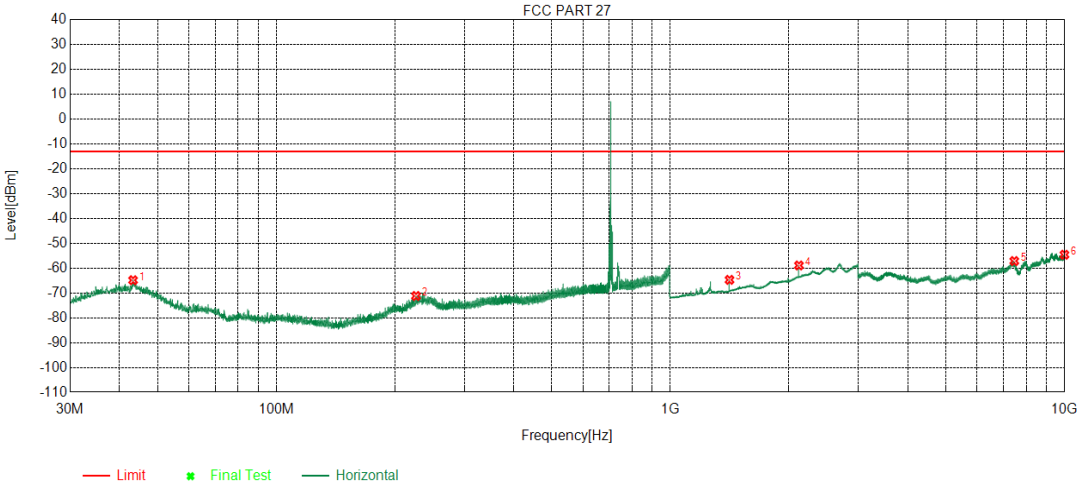
7.5. Test Band = LTE_17 _TM1 DOWN ANT

7.5.1. Test Channel = High Channel

Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.3382	-71.78	-64.85	-13.00	51.85	166	218	Horizontal
2	226.3863	-73.39	-71.21	-13.00	58.21	242	325	Horizontal
3	1412.8826	-67.02	-64.71	-13.00	51.71	284	308	Horizontal
4	2119.8240	-66.85	-58.91	-13.00	45.91	155	324	Horizontal
5	7458.0583	-57.10	-57.13	-13.00	44.13	189	192	Horizontal
6	9996.9199	-60.16	-54.59	-13.00	41.59	146	271	Horizontal

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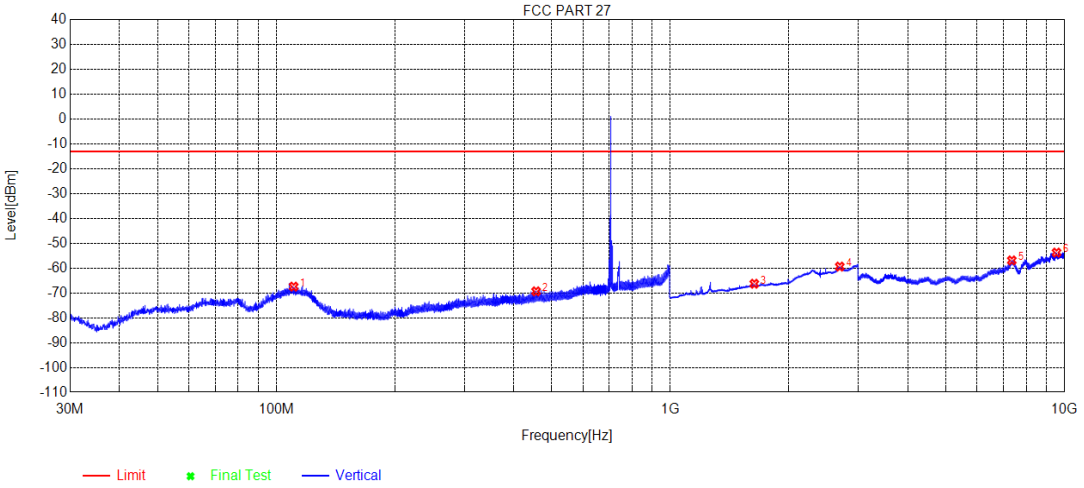
7.6. Test Band = LTE_17 _TM1 DOWN ANT

7.6.1. Test Channel = High Channel

Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	110.7565	-73.78	-67.44	-13.00	54.44	185	31	Vertical
2	456.4333	-73.56	-69.34	-13.00	56.34	166	4	Vertical
3	1632.9266	-70.90	-66.28	-13.00	53.28	132	103	Vertical
4	2691.1382	-70.87	-59.36	-13.00	46.36	251	210	Vertical
5	7351.9341	-57.40	-56.88	-13.00	43.88	266	31	Vertical
6	9546.1018	-59.00	-53.72	-13.00	40.72	294	110	Vertical

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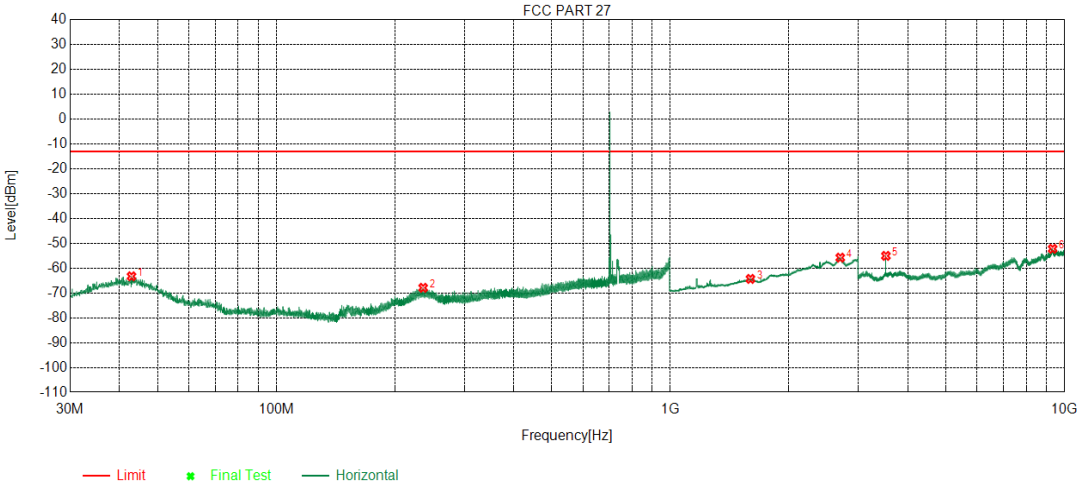
7.7. Test Band = LTE_17 _TM1 UP ANT

7.7.1. Test Channel = Low Channel

Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.9501	-70.19	-63.28	-13.00	50.28	186	113	Horizontal
2	235.9413	-70.72	-67.91	-13.00	54.91	243	113	Horizontal
3	1596.9194	-68.83	-64.33	-13.00	51.33	233	96	Horizontal
4	2698.7397	-68.65	-55.76	-13.00	42.76	241	284	Horizontal
5	3523.0609	-46.30	-55.04	-13.00	42.04	269	167	Horizontal
6	9330.4932	-57.85	-52.20	-13.00	39.20	218	88	Horizontal

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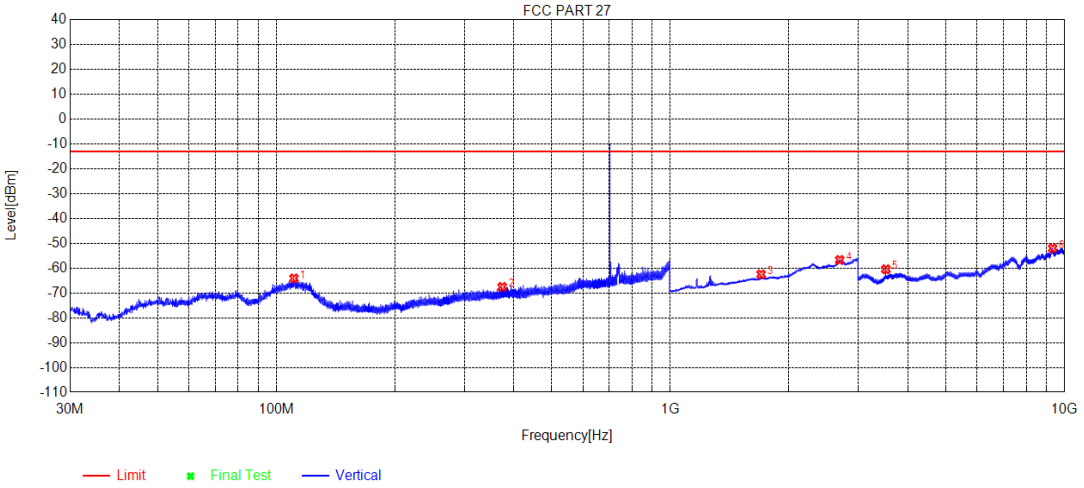
7.8. Test Band = LTE_17 _TM1 UP ANT

7.8.1. Test Channel = Low Channel

Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	110.9505	-70.46	-64.13	-13.00	51.13	163	25	Vertical
2	374.4157	-70.51	-67.56	-13.00	54.56	242	0	Vertical
3	1699.7399	-67.32	-62.47	-13.00	49.47	211	36	Vertical
4	2690.3381	-68.19	-56.70	-13.00	43.70	269	219	Vertical
5	3523.0609	-50.62	-60.45	-13.00	47.45	284	198	Vertical
6	9332.4533	-57.79	-52.00	-13.00	39.00	162	316	Vertical

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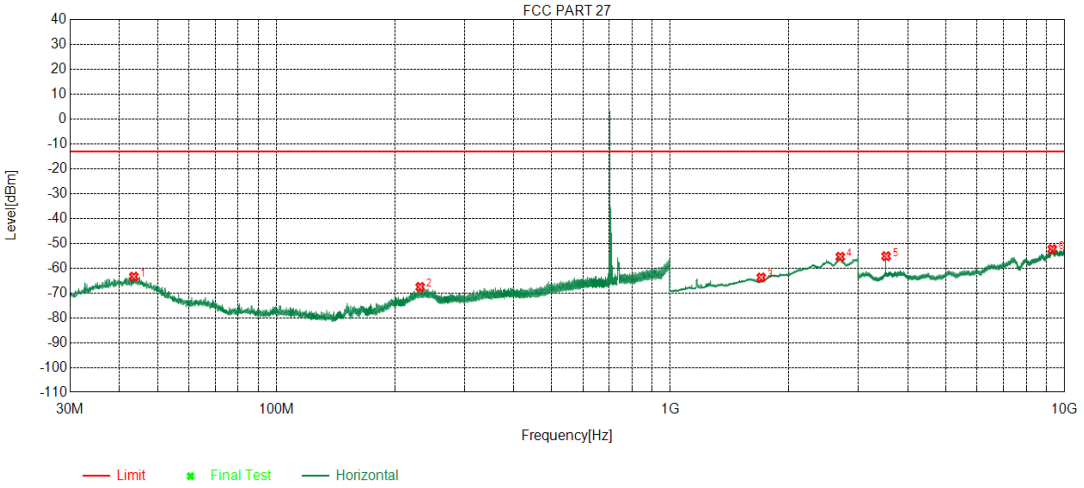
7.9. Test Band = LTE_17 _TM1 UP ANT

7.9.1. Test Channel = Mid Channel

Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.5322	-70.37	-63.43	-13.00	50.43	211	245	Horizontal
2	231.9156	-70.40	-67.58	-13.00	54.58	269	24	Horizontal
3	1700.1400	-67.31	-63.76	-13.00	50.76	212	277	Horizontal
4	2699.1398	-68.33	-55.42	-13.00	42.42	268	43	Horizontal
5	3527.8211	-46.48	-55.18	-13.00	42.18	284	158	Horizontal
6	9307.5323	-58.19	-52.32	-13.00	39.32	233	24	Horizontal

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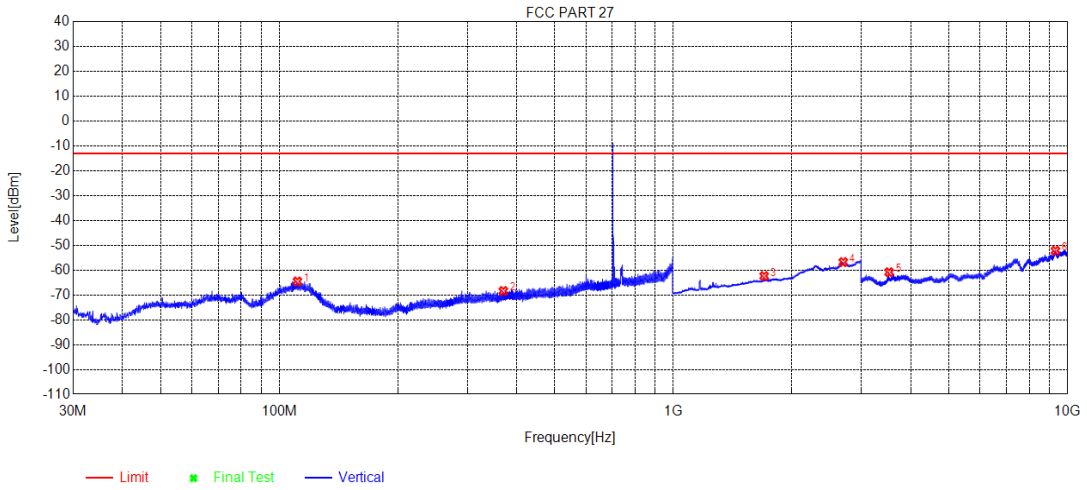
7.10. Test Band = LTE_17 _TM1 UP ANT

7.10.1. Test Channel = Mid Channel

Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	111.2416	-70.83	-64.53	-13.00	51.53	184	62	Vertical
2	370.3900	-71.12	-68.40	-13.00	55.40	269	35	Vertical
3	1699.7399	-67.21	-62.36	-13.00	49.36	121	70	Vertical
4	2697.9396	-68.37	-56.74	-13.00	43.74	211	192	Vertical
5	3527.8211	-51.04	-60.83	-13.00	47.83	265	204	Vertical
6	9319.8528	-58.06	-52.15	-13.00	39.15	174	321	Vertical

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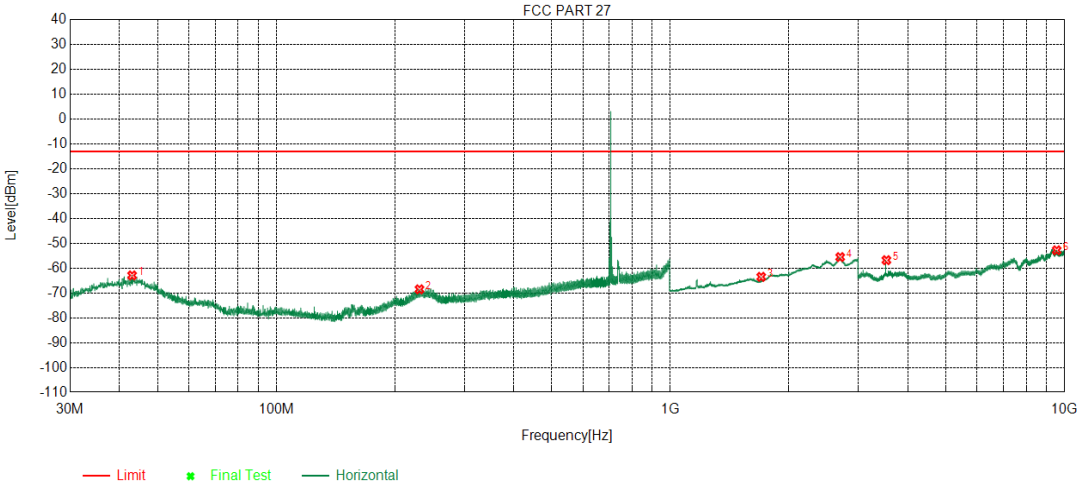
7.11. Test Band = LTE_17 _TM1 UP ANT

7.11.1. Test Channel = High Channel

Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.0957	-69.84	-62.92	-13.00	49.92	112	274	Horizontal
2	230.9455	-71.35	-68.52	-13.00	55.52	196	135	Horizontal
3	1700.1400	-67.05	-63.50	-13.00	50.50	184	227	Horizontal
4	2697.1394	-68.39	-55.54	-13.00	42.54	252	280	Horizontal
5	3533.1413	-48.13	-56.78	-13.00	43.78	266	108	Horizontal
6	9553.6621	-57.78	-52.80	-13.00	39.80	284	0	Horizontal

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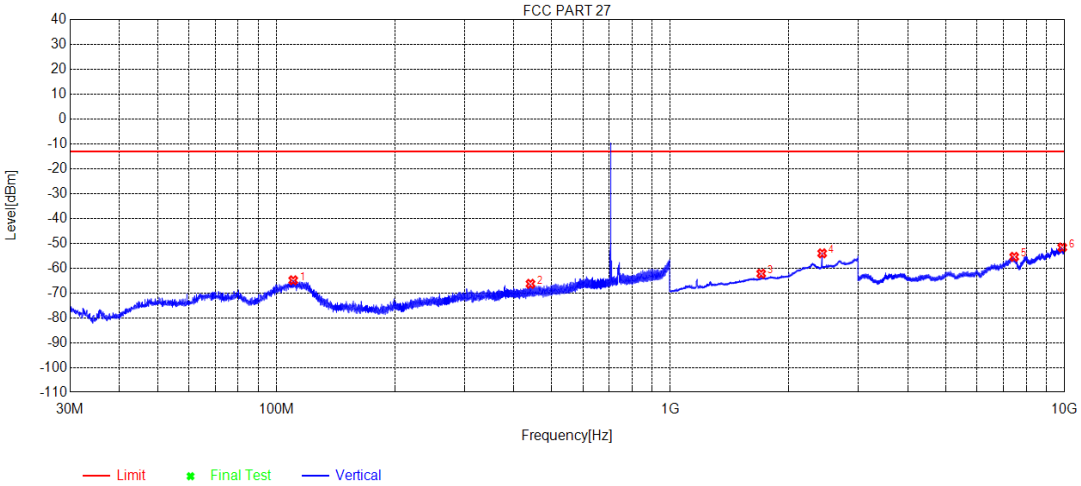
7.12. Test Band = LTE_17 _TM1 UP ANT

7.12.1. Test Channel = High Channel

Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	110.4655	-71.26	-64.89	-13.00	51.89	187	205	Vertical
2	441.7856	-70.10	-66.31	-13.00	53.31	166	69	Vertical
3	1700.1400	-67.07	-62.22	-13.00	49.22	232	4	Vertical
4	2427.4855	-63.18	-54.03	-13.00	41.03	254	263	Vertical
5	7454.1382	-55.74	-55.44	-13.00	42.44	296	95	Vertical
6	9872.5949	-58.07	-51.65	-13.00	38.65	218	69	Vertical

Remark:

1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

2 The disturbance above 18G and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.

3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.

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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	VL	NT	0.10	0.000141	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VN	NT	3.00	0.004231	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VH	NT	2.20	0.003103	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	1.30	0.001831	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	2.30	0.003239	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	2.10	0.002958	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VL	NT	-3.00	-0.004219	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VN	NT	1.70	0.002391	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VH	NT	-0.30	-0.000422	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VL	NT	-0.70	-0.000987	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VN	NT	-0.40	-0.000564	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VH	NT	0.60	0.000846	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VL	NT	0.10	0.000141	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VN	NT	0.90	0.001268	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VH	NT	2.70	0.003803	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VL	NT	-0.60	-0.000844	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VN	NT	-2.70	-0.003797	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VH	NT	0.80	0.001125	±2.5	PASS

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8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	NV	-30	1.50	0.002116	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-20	1.30	0.001834	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-10	0.50	0.000705	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	0	-0.80	-0.001128	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	10	-0.90	-0.001269	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	20	-1.20	-0.001693	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	30	-1.70	-0.002398	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	40	-0.80	-0.001128	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	50	-0.60	-0.000846	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	2.70	0.003803	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	2.80	0.003944	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	0.00	0.000000	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-1.30	-0.001831	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	1.80	0.002535	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-0.90	-0.001268	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-0.10	-0.000141	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	0.10	0.000141	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-0.20	-0.000282	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-30	1.00	0.001406	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-20	0.30	0.000422	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-10	-2.40	-0.003376	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	0	0.20	0.000281	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	10	1.30	0.001828	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	20	-0.70	-0.000985	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	30	0.70	0.000985	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	40	1.10	0.001547	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	50	-0.50	-0.000703	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-30	2.00	0.002821	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-20	0.30	0.000423	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-10	2.10	0.002962	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	0	0.40	0.000564	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	10	1.80	0.002539	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	20	1.10	0.001551	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	30	-0.10	-0.000141	±2.5	PASS

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Band17	10MHz	16QAM	23780	50RB#0	NV	40	0.40	0.000564	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	50	-0.70	-0.000987	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-30	2.60	0.003662	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-20	-0.10	-0.000141	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-10	2.20	0.003099	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	0	0.90	0.001268	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	10	1.00	0.001408	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	20	0.60	0.000845	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	30	1.40	0.001972	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	40	1.60	0.002254	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	50	0.80	0.001127	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-30	0.00	0.000000	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-20	-1.00	-0.001406	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-10	-1.30	-0.001828	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	0	-1.50	-0.002110	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	10	-0.70	-0.000985	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	20	-2.90	-0.004079	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	30	-0.70	-0.000985	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	40	-0.90	-0.001266	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	50	-1.50	-0.002110	±2.5	PASS

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