Appendix B

E-UTRA Band 17

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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	limit (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#24	23.07	23.92	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.28	24.13	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#0	23.00	23.85	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#13	22.34	23.19	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#6	22.43	23.28	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.32	23.17	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.39	23.24	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.04	23.89	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.07	23.92	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.31	24.16	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#13	22.32	23.17	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#6	22.46	23.31	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#0	22.30	23.15	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.33	23.18	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	22.98	23.83	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.27	24.12	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.02	23.87	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#0	22.29	23.14	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#13	22.30	23.15	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#6	22.35	23.2	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.27	23.12	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	21.31	22.16	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	21.46	22.31	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	21.22	22.07	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#0	20.37	21.22	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#13	20.44	21.29	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#6	20.51	21.36	34.77	PASS

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Band17	5MHz	64QAM	23755	25RB#0	20.43	21.28	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	21.28	22.13	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	21.50	22.35	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	21.29	22.14	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#0	20.38	21.23	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#6	20.56	21.41	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#13	20.37	21.22	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	20.42	21.27	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	21.12	21.97	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	21.41	22.26	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	21.26	22.11	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#0	20.33	21.18	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#6	20.39	21.24	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#13	20.32	21.17	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	20.31	21.16	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.50	23.35	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.53	23.38	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.33	23.18	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#13	21.42	22.27	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#0	21.33	22.18	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#6	21.48	22.33	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.35	22.2	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.26	23.11	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.70	23.55	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.37	23.22	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#13	21.38	22.23	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#6	21.47	22.32	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#0	21.34	22.19	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.33	22.18	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.53	23.38	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.24	23.09	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.40	23.25	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#0	21.30	22.15	34.77	PASS

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Band17	5MHz	16QAM	23825	12RB#6	21.40	22.25	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#13	21.30	22.15	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.32	22.17	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	22.42	23.27	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	22.71	23.56	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.10	23.95	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.20	23.05	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.30	23.15	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#25	22.01	22.86	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.11	22.96	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	22.70	23.55	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	22.38	23.23	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.28	24.13	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.20	23.05	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#12	22.35	23.2	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#25	22.01	22.86	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.11	22.96	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.16	24.01	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	22.74	23.59	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	22.39	23.24	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#25	22.04	22.89	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#0	22.19	23.04	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#12	22.32	23.17	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.12	22.97	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	20.63	21.48	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	21.37	22.22	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	20.77	21.62	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#25	20.31	21.16	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#12	20.35	21.2	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#0	20.32	21.17	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	20.45	21.3	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	22.96	23.81	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	22.88	23.73	34.77	PASS

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Band17	10MHz	64QAM	23790	1RB#0	20.91	21.76	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#25	21.65	22.5	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#12	21.91	22.76	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#0	21.77	22.62	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	21.67	22.52	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	22.84	23.69	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	23.06	23.91	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	22.87	23.72	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#0	21.78	22.63	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#12	21.89	22.74	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#25	21.67	22.52	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	21.74	22.59	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.50	23.35	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	21.71	22.56	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	21.87	22.72	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#0	21.17	22.02	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#12	21.34	22.19	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#25	21.04	21.89	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.09	21.94	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.46	23.31	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	21.91	22.76	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	21.63	22.48	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#12	21.31	22.16	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#0	21.14	21.99	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#25	21.03	21.88	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.12	21.97	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	21.64	22.49	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.58	23.43	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	21.81	22.66	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#0	21.18	22.03	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#12	21.33	22.18	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#25	21.09	21.94	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.10	21.95	34.77	PASS

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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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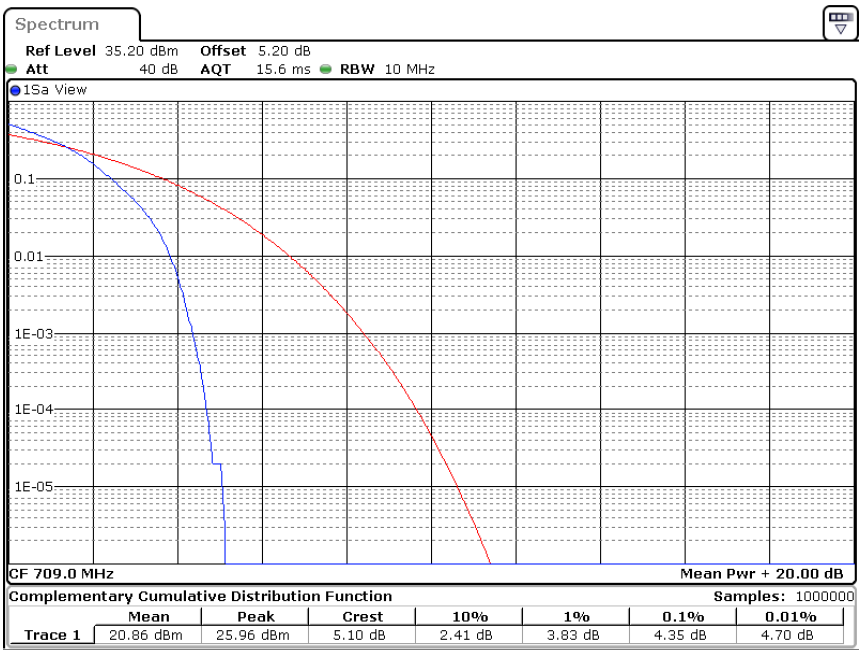
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	4.35	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	4.41	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	4.64	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	6.14	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	6.09	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	6.09	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	5.51	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	5.51	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	5.54	13	PASS

2.2. Test Plots

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



Date: 16.JUL.2020 02:31:49

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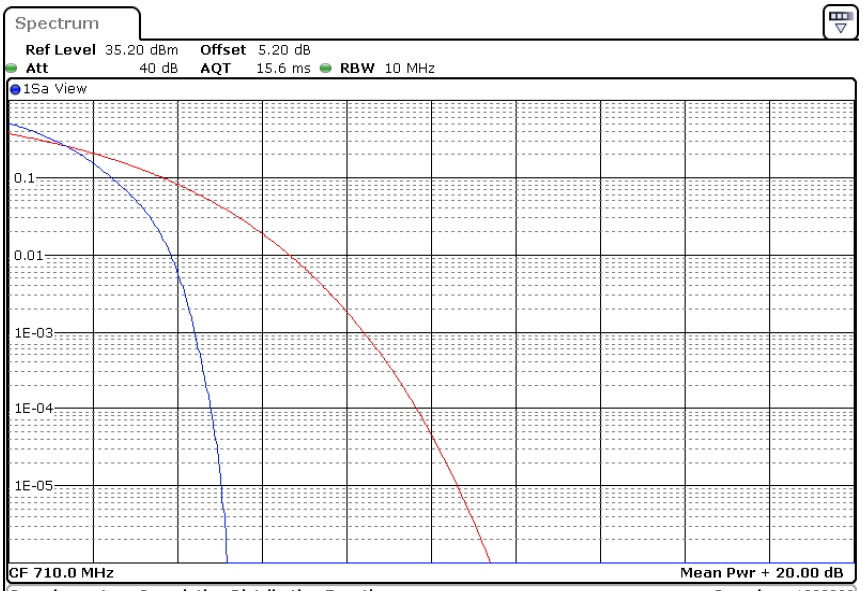
Band17-10MHz-QPSK-23790-50RB#0

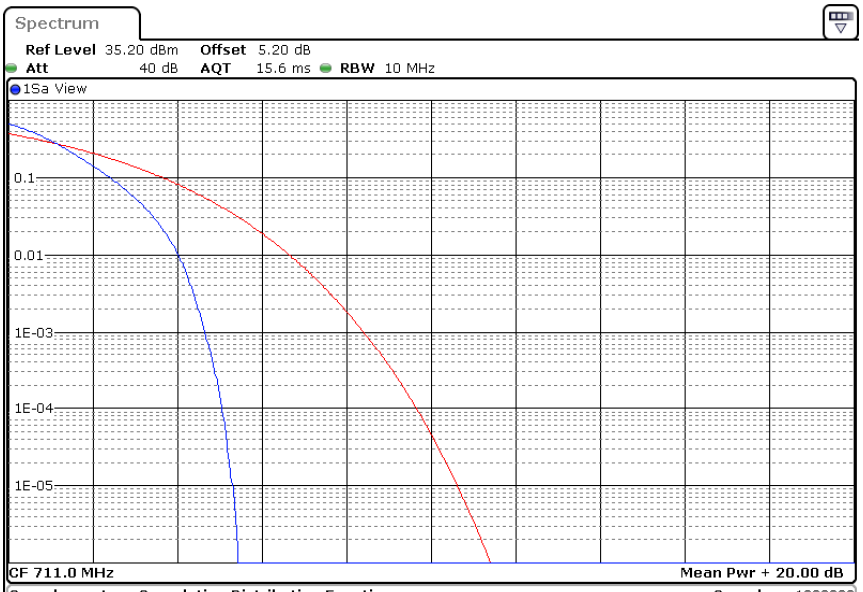


Complementary Cumulative Distribution Function — Samples: 1000000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.91 dBm	26.16 dBm	5.25 dB	2.43 dB	3.83 dB	4.41 dB	4.78 dB

Date: 16.JUL.2020 02:32:11

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



Complementary Cumulative Distribution Function — Samples: 1000000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	17.51 dBm	22.91 dBm	5.40 dB	2.41 dB	4.00 dB	4.64 dB	5.04 dB

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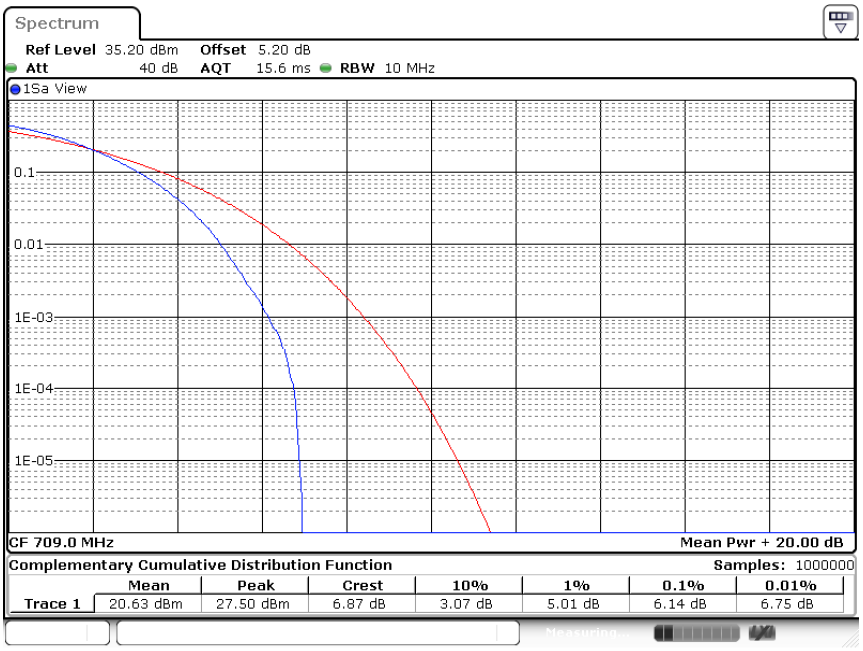
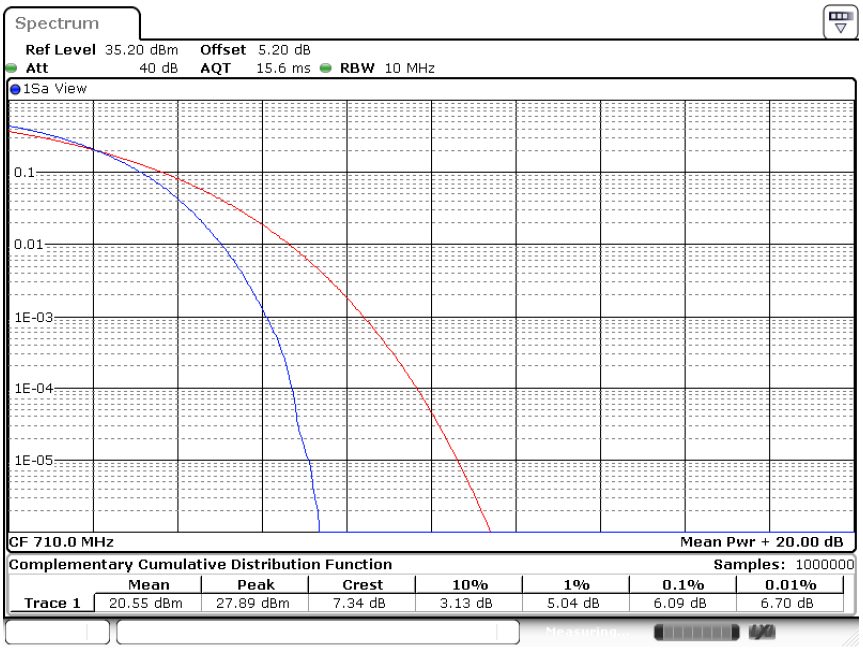
Band17-10MHz-64QAM-23780-50RB#0



Date: 11.AUG.2020 09:05:25

Band17-10MHz-64QAM-23790-50RB#0



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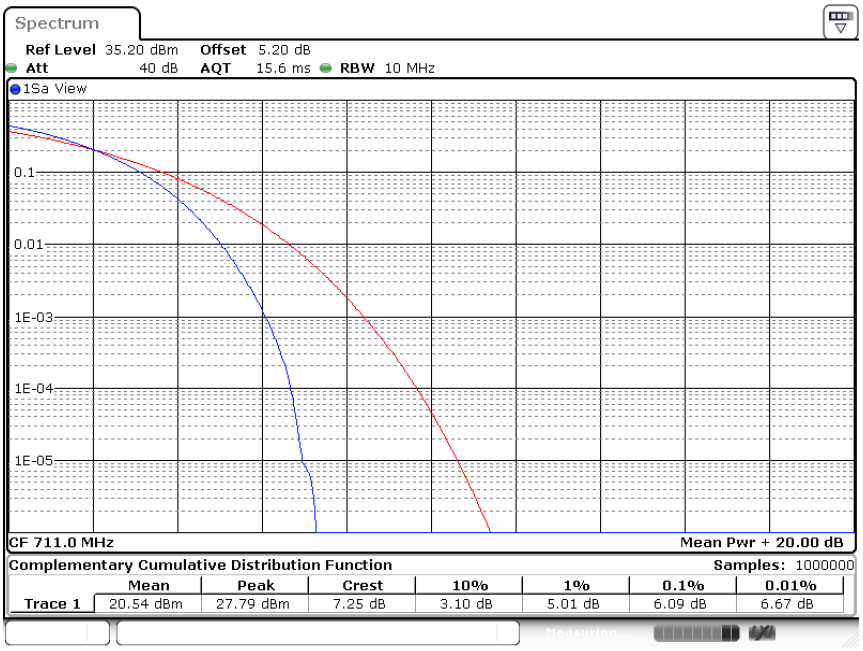
Band17-10MHz-64QAM-23800-50RB#0



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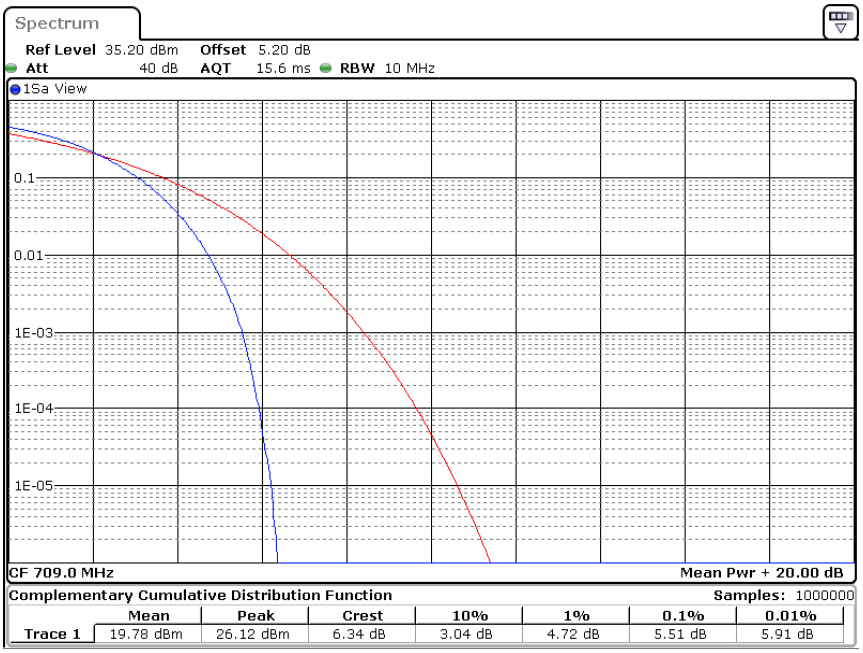
Band17-10MHz-16QAM-23780-50RB#0



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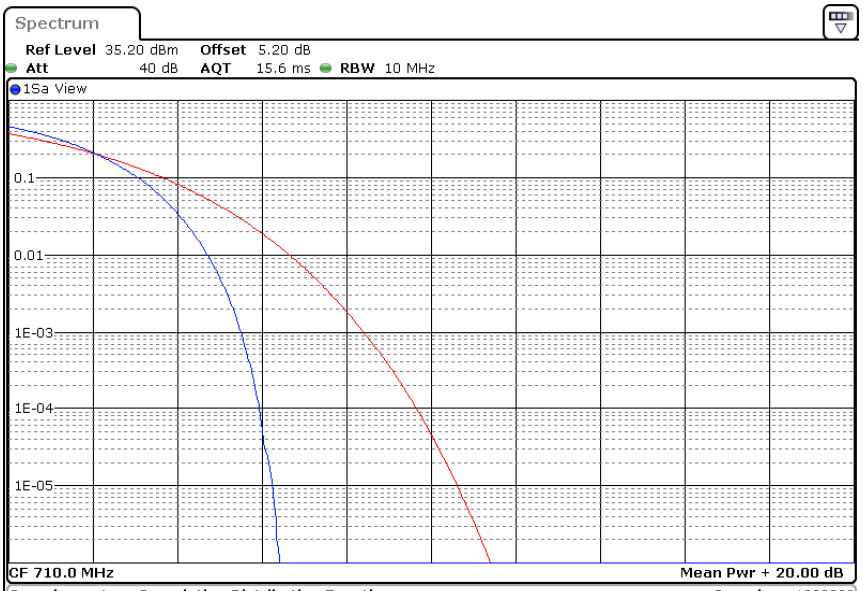
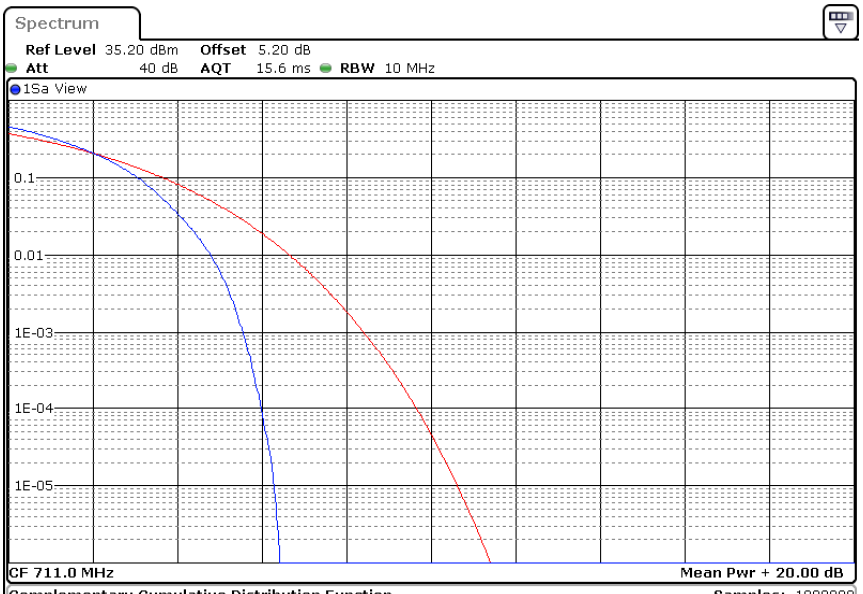


Complementary Cumulative Distribution Function — Samples: 1000000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	19.83 dBm	26.29 dBm	6.46 dB	3.04 dB	4.70 dB	5.51 dB	5.94 dB

Date: 16.JUL.2020 02:32:23

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



Complementary Cumulative Distribution Function — Samples: 1000000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	16.45 dBm	22.88 dBm	6.43 dB	3.04 dB	4.78 dB	5.54 dB	5.97 dB

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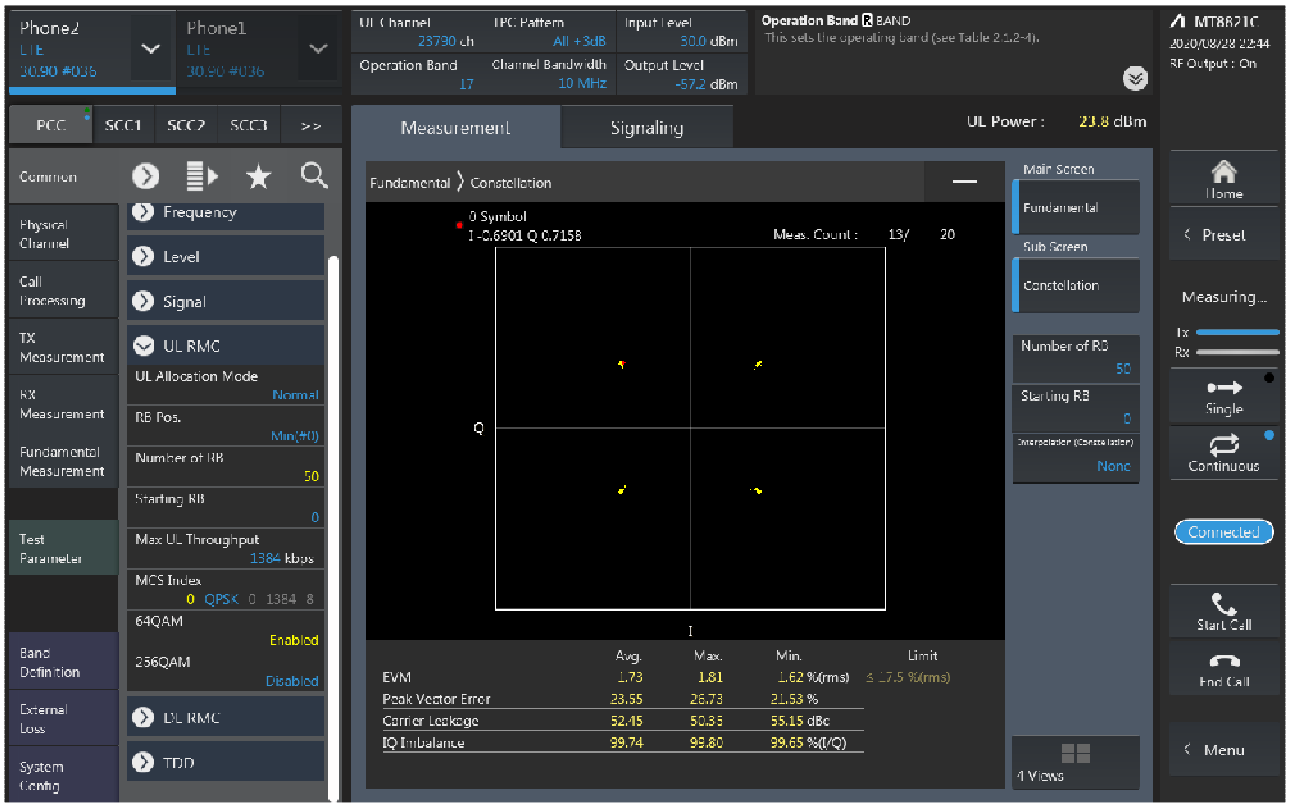
3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1.Test Channel = MCH



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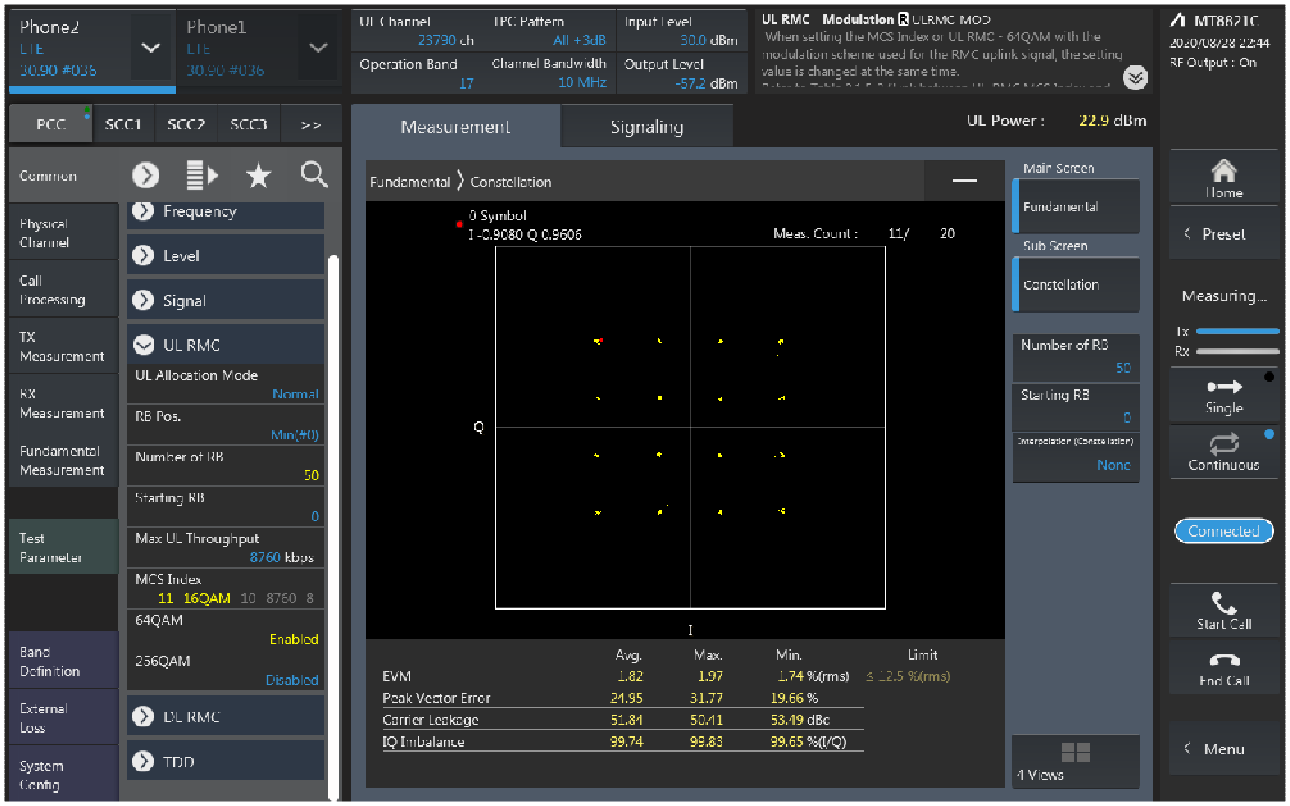
3.2. Test Mode = LTE /TM2 10MHz

3.2.1.Test Channel = MCH



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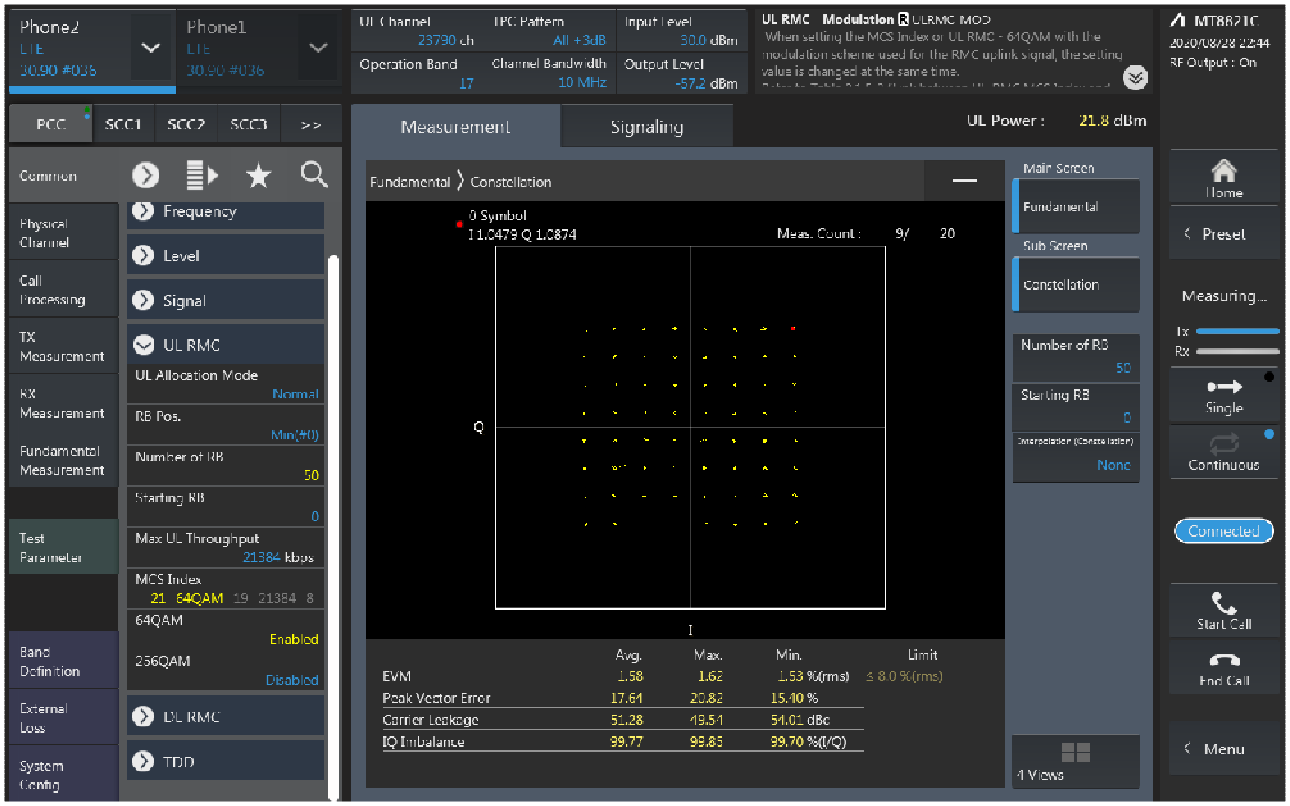
3.3. Test Mode = LTE /TM3 10MHz

3.3.1.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	4.466	4.870	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.456	4.850	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.476	4.910	PASS
Band17	5MHz	64QAM	23755	25RB#0	4.476	4.880	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.466	4.860	PASS
Band17	5MHz	64QAM	23825	25RB#0	4.466	4.890	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.476	4.900	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.476	4.900	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.496	4.930	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.911	9.580	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.891	9.600	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.911	9.640	PASS
Band17	10MHz	64QAM	23780	50RB#0	8.911	9.580	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.891	9.620	PASS
Band17	10MHz	64QAM	23800	50RB#0	8.911	9.560	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.891	9.600	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.911	9.660	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.911	9.700	PASS

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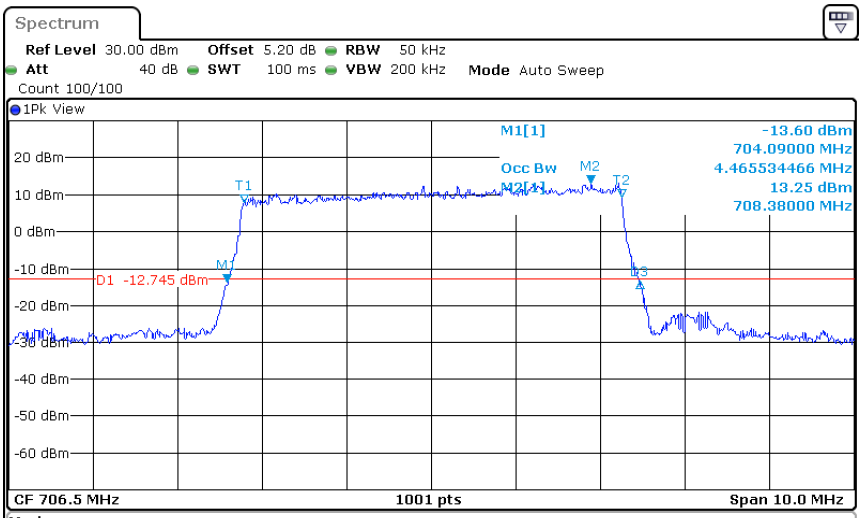
4.2. Test Plots

Band17-5MHz-QPSK-23755-25RB#0-4.466



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	704.09 MHz	-13.60 dBm		
T1		1	704.28222 MHz	8.02 dBm	Occ Bw	4.465534466 MHz
T2		1	708.74775 MHz	9.35 dBm		
M2		1	708.38 MHz	13.25 dBm		
D3	M1	1	4.87 MHz	0.21 dB		

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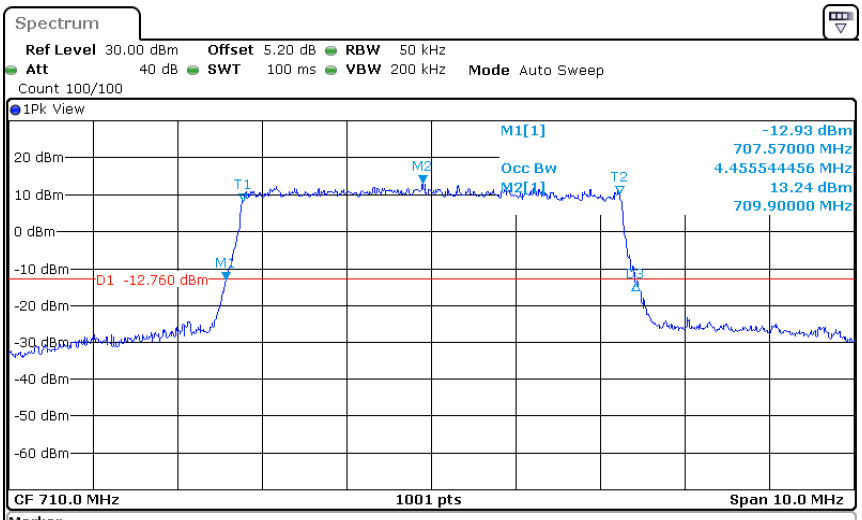
Band17-5MHz-QPSK-23790-25RB#0-4.456



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	707.57 MHz	-12.93 dBm		
T1		1	707.77223 MHz	8.19 dBm	Occ Bw	4.455544456 MHz
T2		1	712.22777 MHz	10.13 dBm		
M2		1	709.9 MHz	13.24 dBm		
D3	M1	1	4.85 MHz	-0.84 dB		

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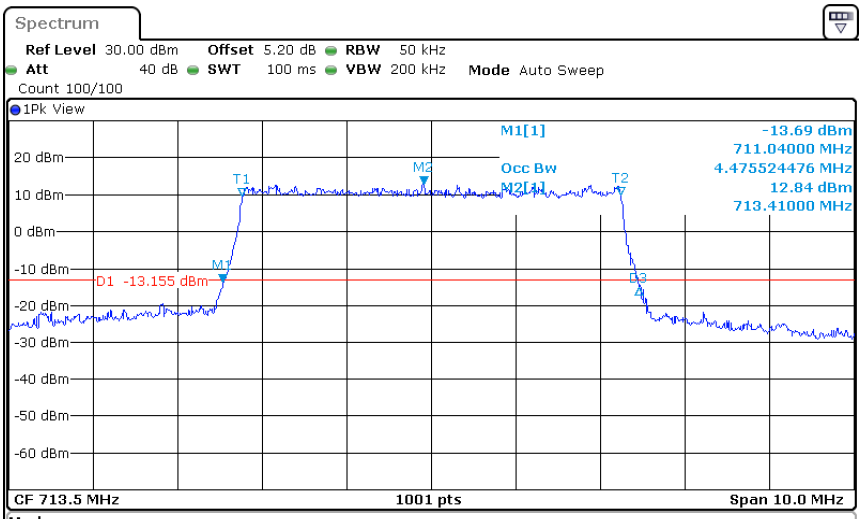
Band17-5MHz-QPSK-23825-25RB#0-4.476

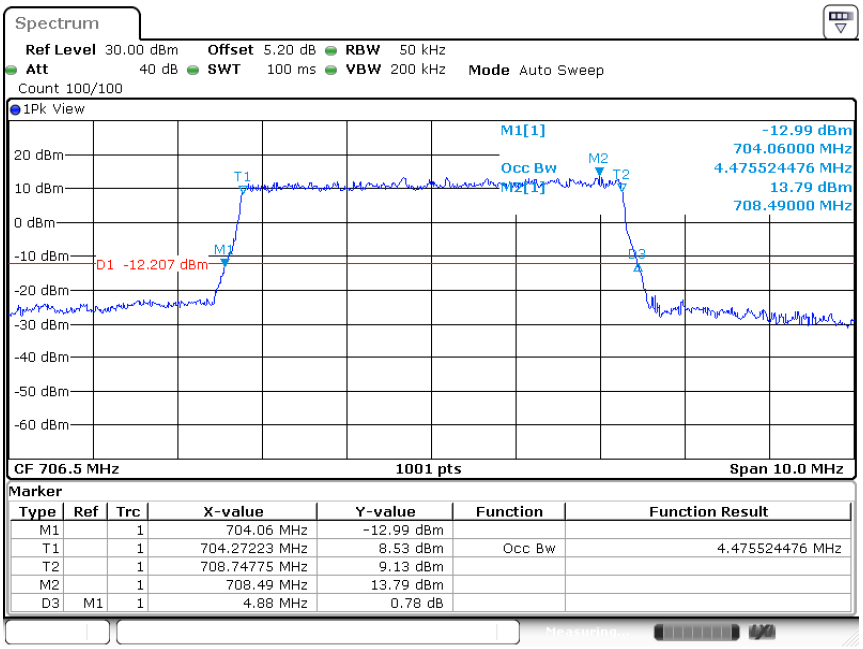


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	711.04 MHz	-13.69 dBm		
T1		1	711.26224 MHz	9.72 dBm	Occ Bw	4.475524476 MHz
T2		1	715.73776 MHz	9.92 dBm		
M2		1	713.41 MHz	12.84 dBm		
D3	M1	1	4.91 MHz	-1.24 dB		

Date: 16.JUL.2020 02:16:15

Band17-5MHz-64QAM-23755-25RB#0-4.476



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	704.06 MHz	-12.99 dBm		
T1		1	704.27223 MHz	8.53 dBm	Occ Bw	4.475524476 MHz
T2		1	708.74775 MHz	9.13 dBm		
M2		1	708.49 MHz	13.79 dBm		
D3	M1	1	4.88 MHz	0.78 dB		

Date: 11.AUG.2020 08:56:03

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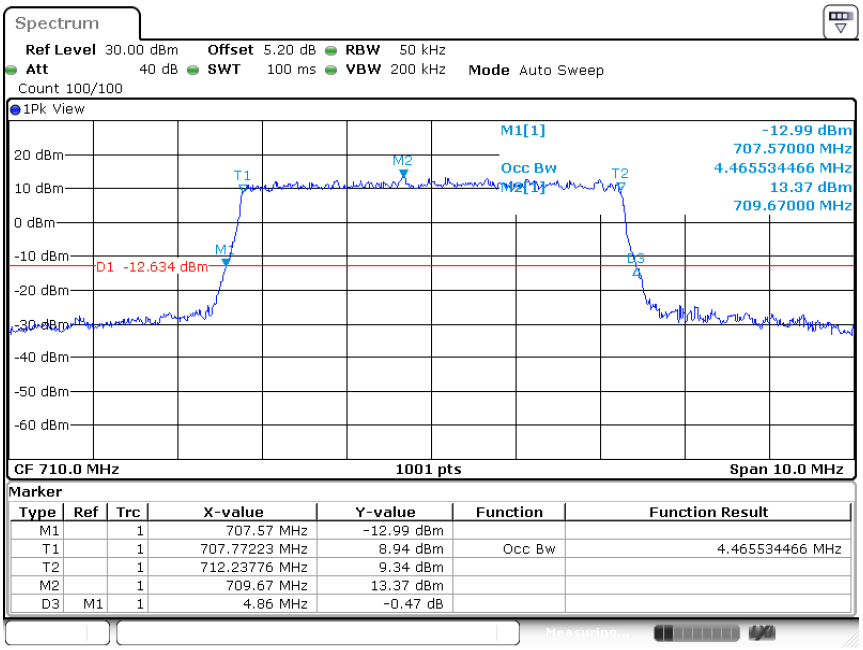
Band17-5MHz-64QAM-23790-25RB#0-4.466

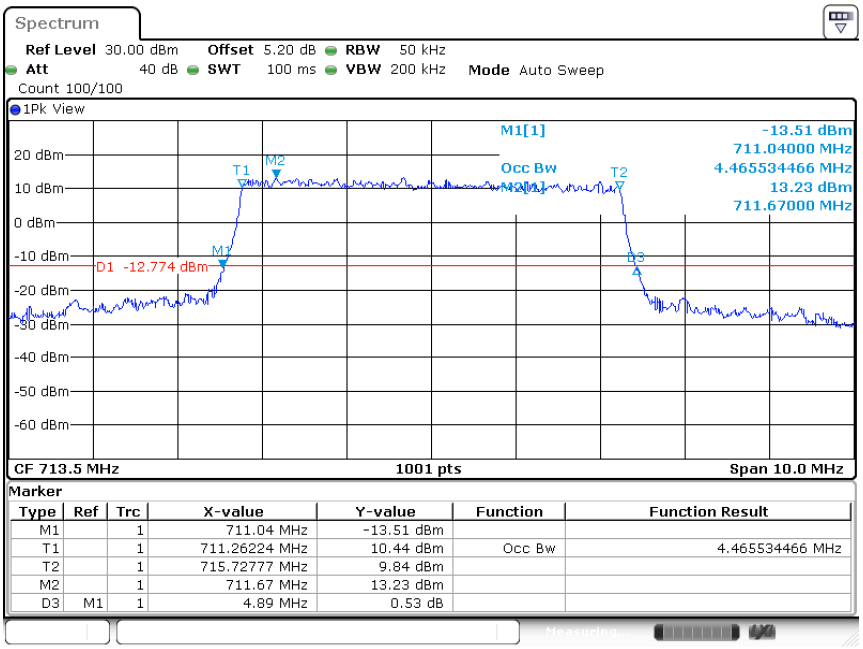


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	707.57 MHz	-12.99 dBm		
T1		1	707.77223 MHz	8.94 dBm	Occ Bw	4.465534466 MHz
T2		1	712.23776 MHz	9.34 dBm		
M2		1	709.67 MHz	13.37 dBm		
D3	M1	1	4.86 MHz	-0.47 dB		

Date: 11.AUG.2020 08:56:23

Band17-5MHz-64QAM-23825-25RB#0-4.466



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	711.04 MHz	-13.51 dBm		
T1		1	711.26224 MHz	10.44 dBm	Occ Bw	4.465534466 MHz
T2		1	715.72777 MHz	9.84 dBm		
M2		1	711.67 MHz	13.23 dBm		
D3	M1	1	4.89 MHz	0.53 dB		

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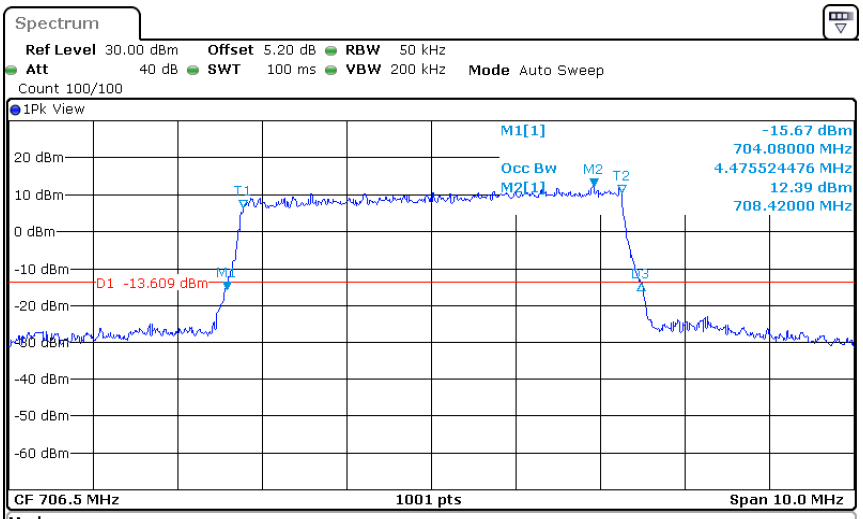
Band17-5MHz-16QAM-23755-25RB#0-4.476

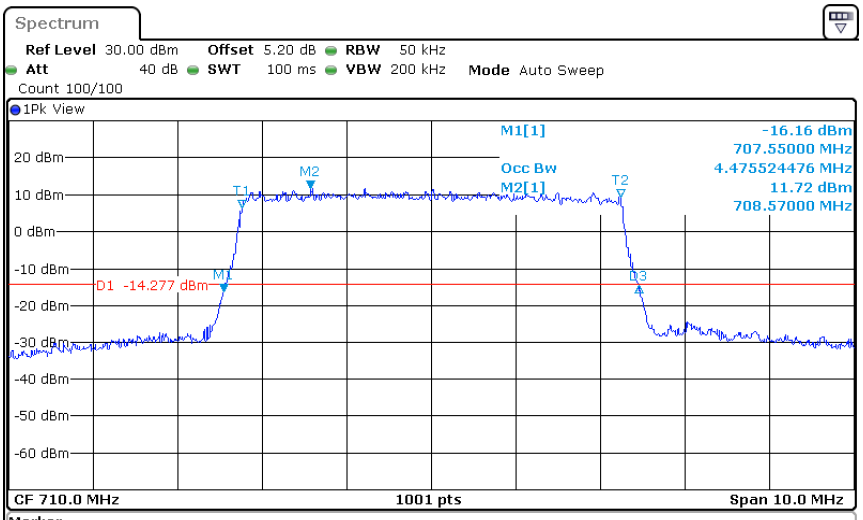


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	704.08 MHz	-15.67 dBm		
T1		1	704.27223 MHz	6.57 dBm	Occ Bw	4.475524476 MHz
T2		1	708.74775 MHz	10.42 dBm		
M2		1	708.42 MHz	12.39 dBm		
D3	M1	1	4.9 MHz	1.87 dB		

Date: 16.JUL.2020 02:15:16

Band17-5MHz-16QAM-23790-25RB#0-4.476



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	707.55 MHz	-16.16 dBm		
T1		1	707.76224 MHz	6.34 dBm	Occ Bw	4.475524476 MHz
T2		1	712.23776 MHz	9.38 dBm		
M2		1	708.57 MHz	11.72 dBm		
D3	M1	1	4.9 MHz	1.58 dB		

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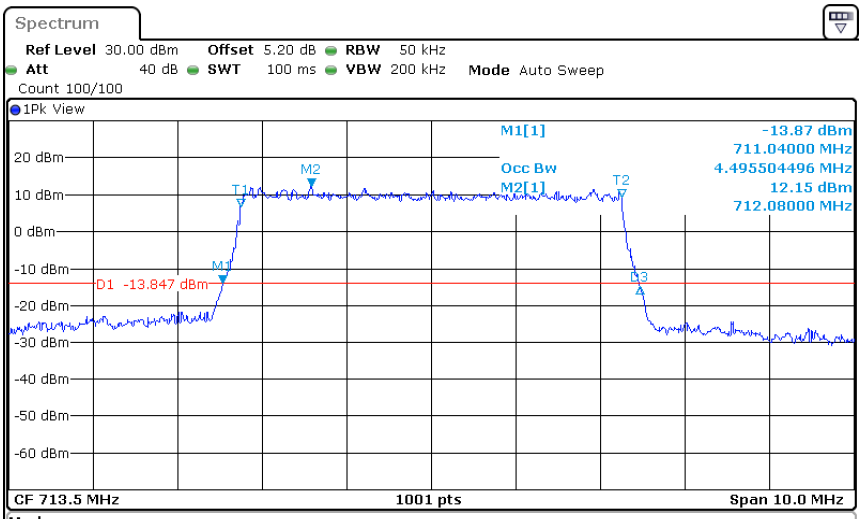
Band17-5MHz-16QAM-23825-25RB#0-4.496

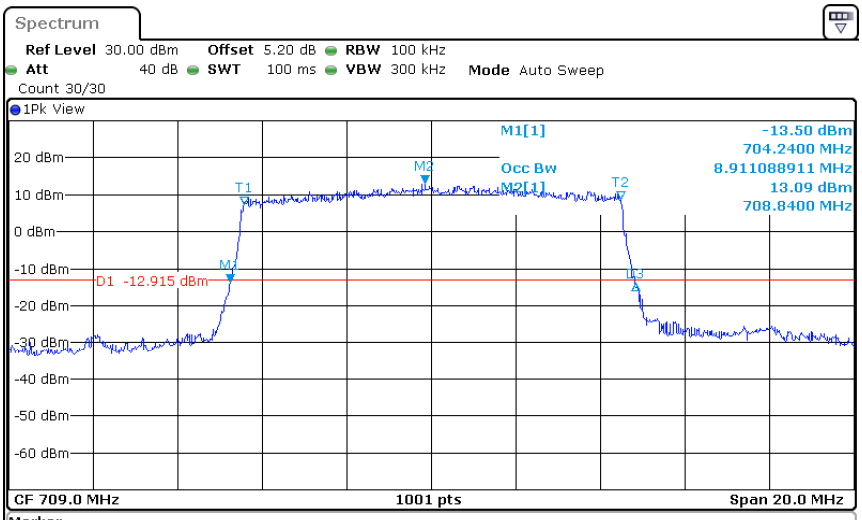


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	711.04 MHz	-13.87 dBm		
T1		1	711.25225 MHz	6.67 dBm	Occ Bw	4.495504496 MHz
T2		1	715.74775 MHz	9.49 dBm		
M2		1	712.08 MHz	12.15 dBm		
D3	M1	1	4.93 MHz	-0.90 dB		

Date: 16.JUL.2020 02:16:35

Band17-10MHz-QPSK-23780-50RB#0-8.911



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	704.24 MHz	-13.50 dBm		
T1		1	704.5644 MHz	7.32 dBm	Occ Bw	8.911088911 MHz
T2		1	713.4755 MHz	8.72 dBm		
M2		1	708.84 MHz	13.09 dBm		
D3	M1	1	9.58 MHz	-0.35 dB		

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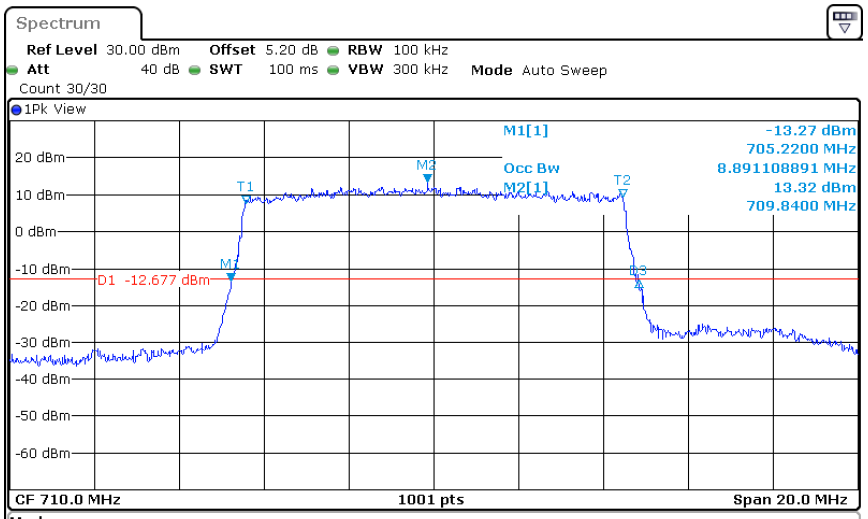
Band17-10MHz-QPSK-23790-50RB#0-8.891



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	705.22 MHz	-13.27 dBm		
T1		1	705.5644 MHz	7.63 dBm	Occ Bw	8.891108891 MHz
T2		1	714.4555 MHz	9.35 dBm		
M2		1	709.84 MHz	13.32 dBm		
D3	M1	1	9.6 MHz	0.38 dB		

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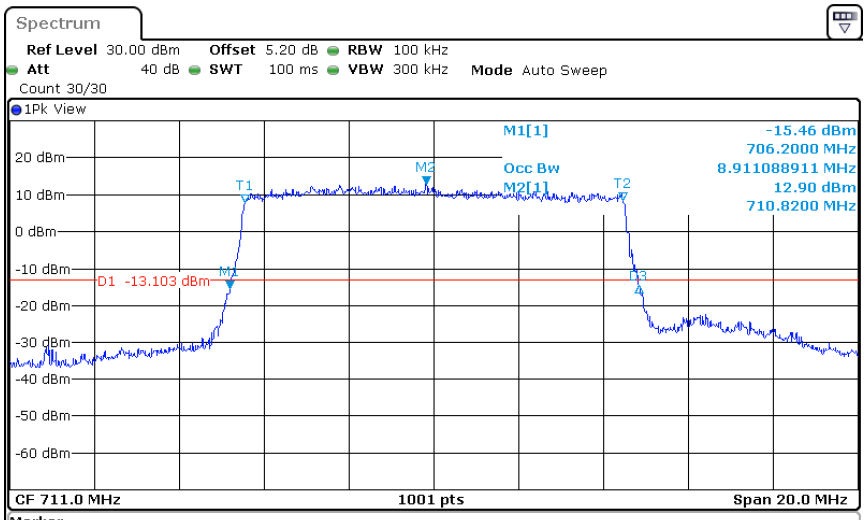
Band17-10MHz-QPSK-23800-50RB#0-8.911



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	706.2 MHz	-15.46 dBm		
T1		1	706.5445 MHz	8.02 dBm	Occ Bw	8.911088911 MHz
T2		1	715.4555 MHz	8.39 dBm		
M2		1	710.82 MHz	12.90 dBm		
D3	M1	1	9.64 MHz	0.99 dB		

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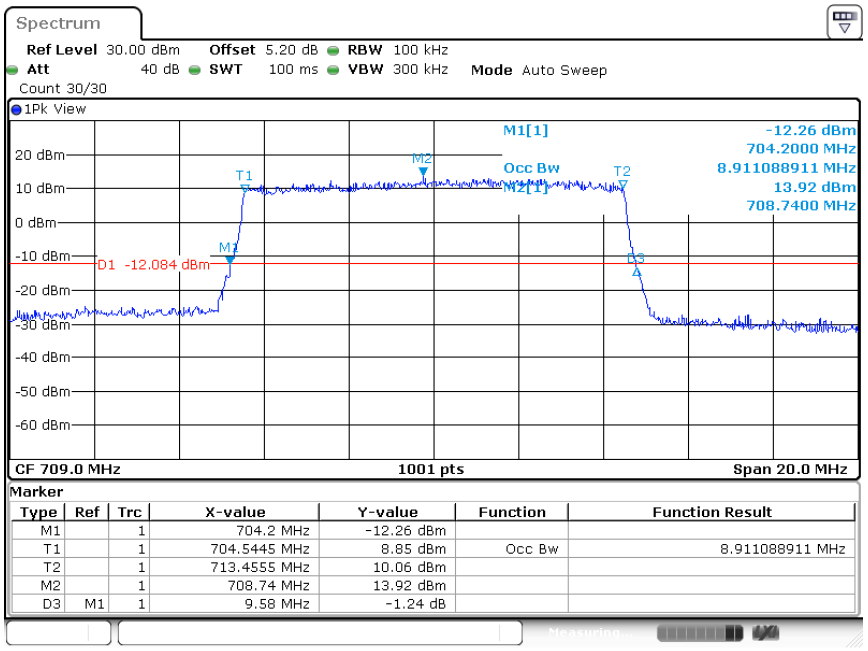

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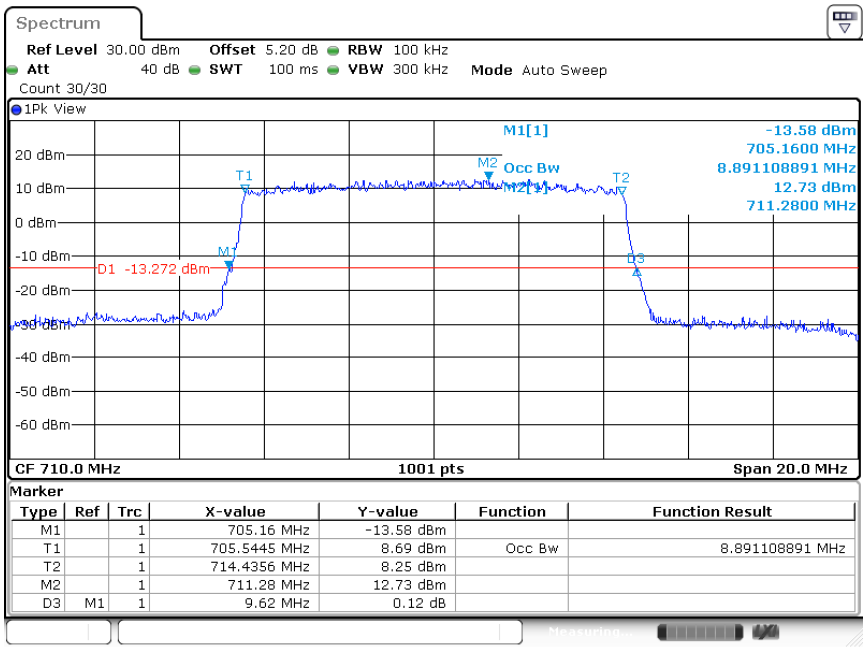
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	704.2 MHz	-12.26 dBm		
T1		1	704.5445 MHz	8.85 dBm	Occ Bw	8.911088911 MHz
T2		1	713.4555 MHz	10.06 dBm		
M2		1	708.74 MHz	13.92 dBm		
D3	M1	1	9.58 MHz	-1.24 dB		

Date: 11.AUG.2020 08:57:03

Band17-10MHz-64QAM-23790-50RB#0-8.891



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	705.16 MHz	-13.58 dBm		
T1		1	705.5445 MHz	8.69 dBm	Occ Bw	8.891108891 MHz
T2		1	714.4356 MHz	8.25 dBm		
M2		1	711.28 MHz	12.73 dBm		
D3	M1	1	9.62 MHz	0.12 dB		

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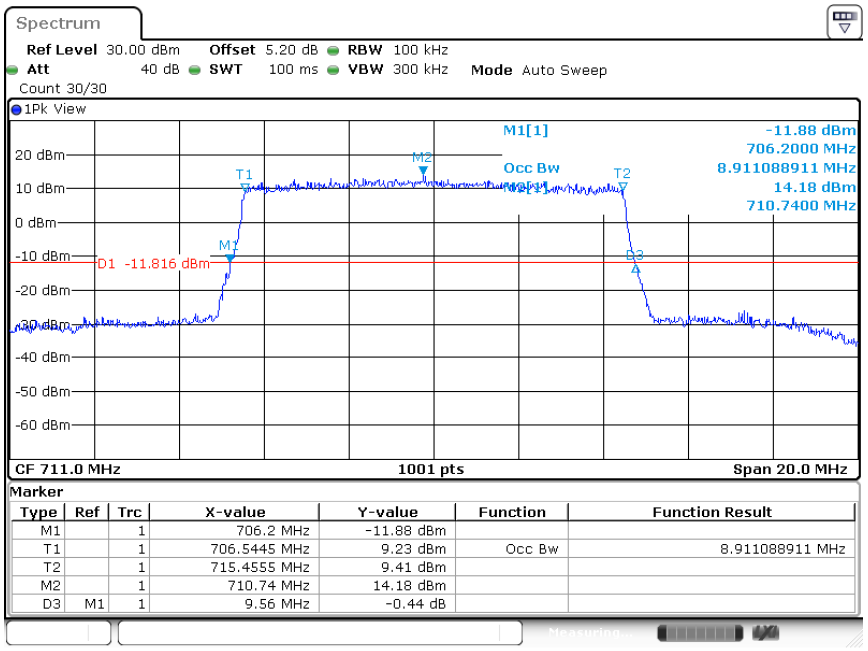

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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	706.2 MHz	-11.88 dBm		
T1		1	706.5445 MHz	9.23 dBm	Occ Bw	8.911088911 MHz
T2		1	715.4555 MHz	9.41 dBm		
M2		1	710.74 MHz	14.18 dBm		
D3	M1	1	9.56 MHz	-0.44 dB		

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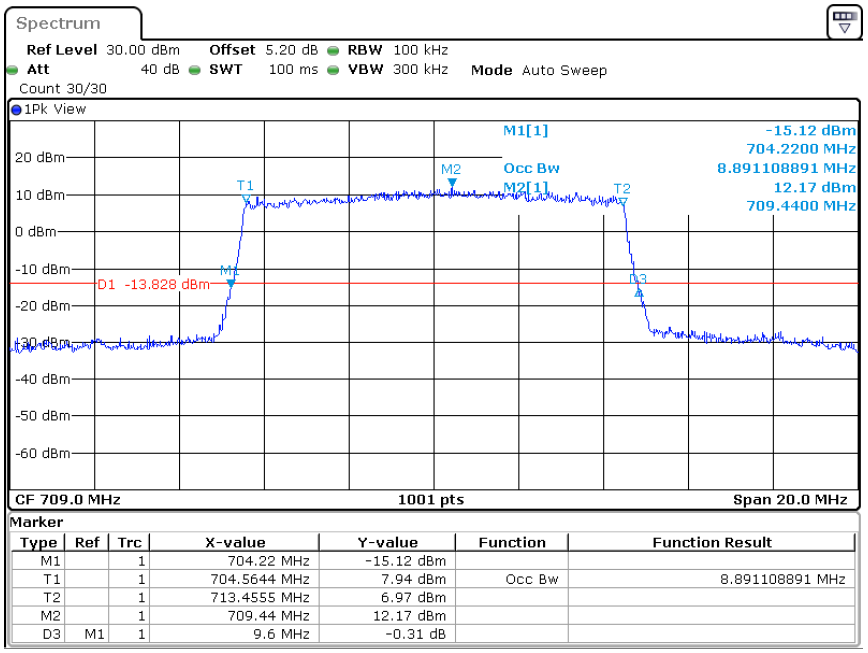
Band17-10MHz-16QAM-23780-50RB#0-8.891



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	704.22 MHz	-15.12 dBm		
T1		1	704.5644 MHz	7.94 dBm	Occ Bw	8.891108891 MHz
T2		1	713.4555 MHz	6.97 dBm		
M2		1	709.44 MHz	12.17 dBm		
D3	M1	1	9.6 MHz	-0.31 dB		

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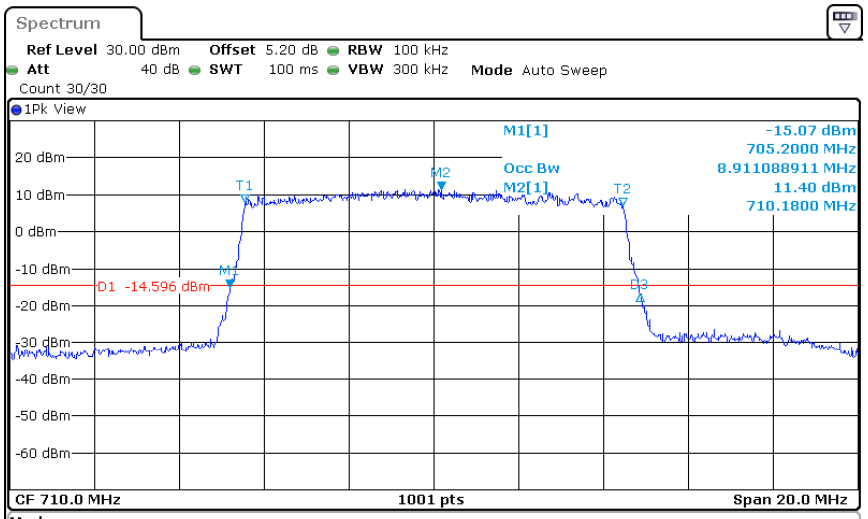

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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	705.2 MHz	-15.07 dBm		
T1		1	705.5445 MHz	7.83 dBm	Occ Bw	8.911088911 MHz
T2		1	714.4555 MHz	7.11 dBm		
M2		1	710.18 MHz	11.40 dBm		
D3	M1	1	9.66 MHz	-1.72 dB		

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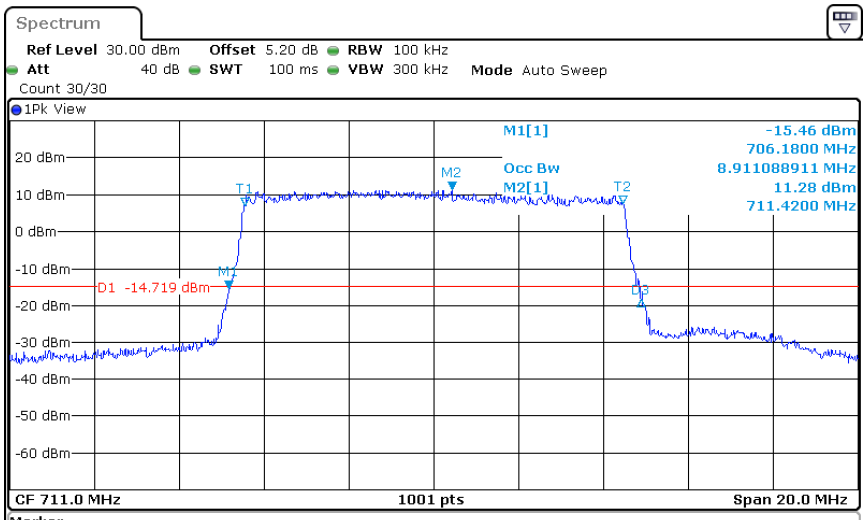
Band17-10MHz-16QAM-23800-50RB#0-8.911



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	706.18 MHz	-15.46 dBm		
T1		1	706.5445 MHz	7.02 dBm	Occ Bw	8.911088911 MHz
T2		1	715.4555 MHz	7.74 dBm		
M2		1	711.42 MHz	11.28 dBm		
D3	M1	1	9.7 MHz	-2.82 dB		

Date: 16.JUL.2020 02:17:57

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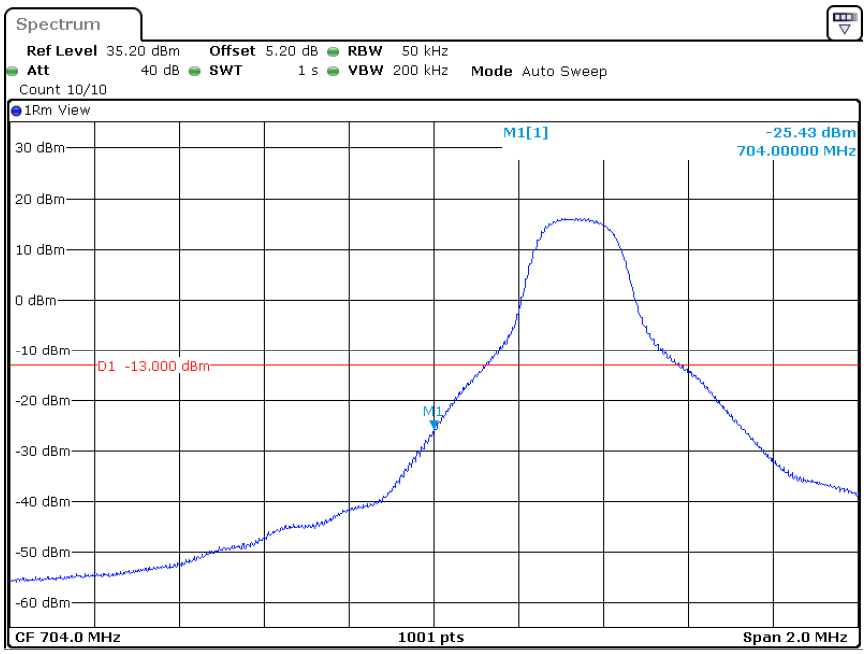
5. Band Edge Compliance

5.1. Test Plots

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


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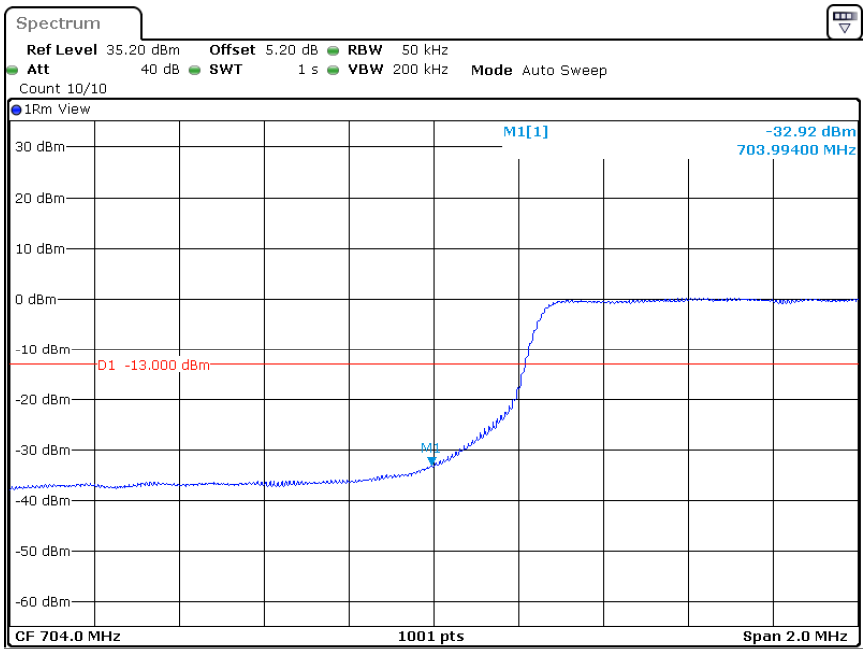
Band17-5MHz-QPSK-23755-25RB#0



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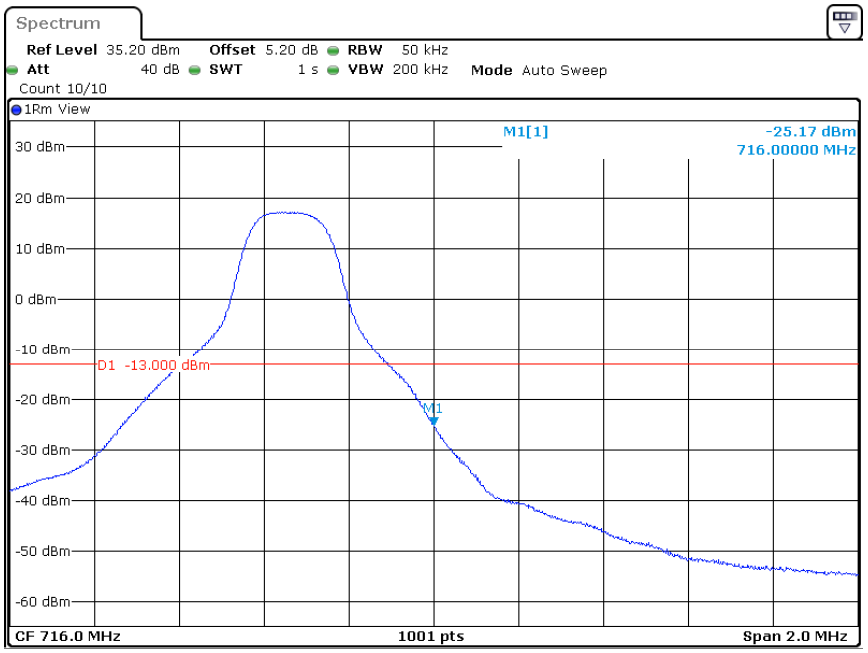
Band17-5MHz-QPSK-23825-1RB#24



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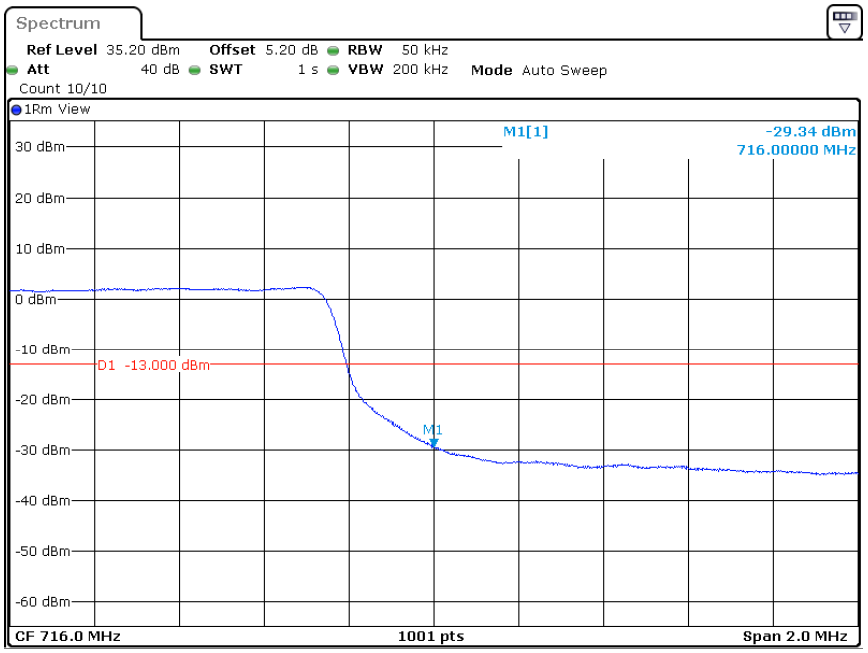

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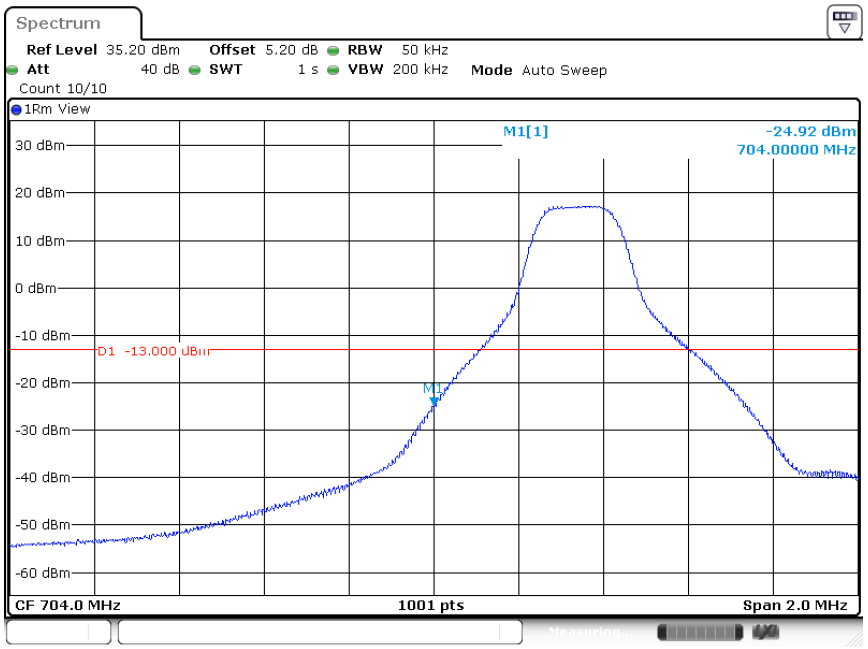
Band17-5MHz-64QAM-23755-1RB#0



Date: 11.AUG.2020 08:57:56

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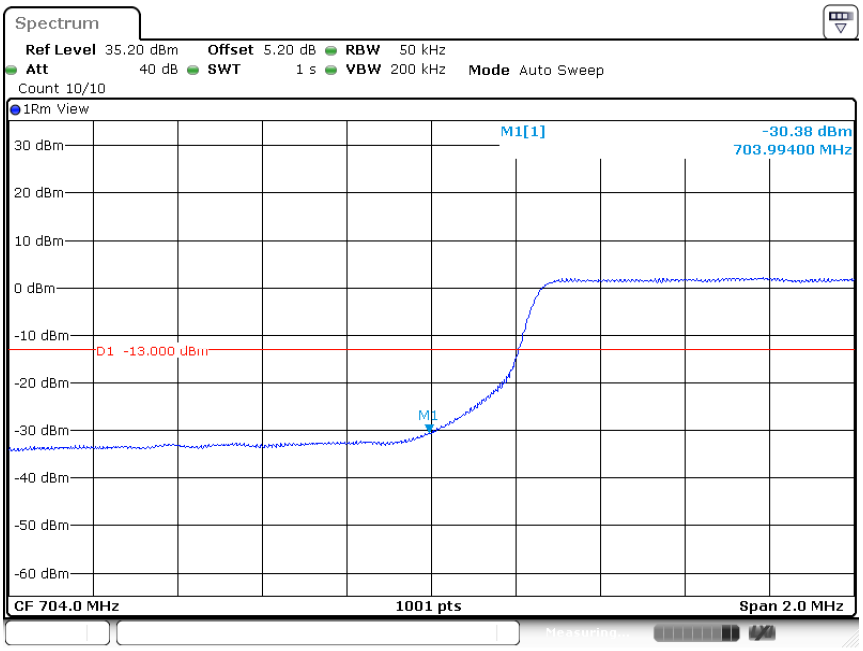
Band17-5MHz-64QAM-23755-25RB#0



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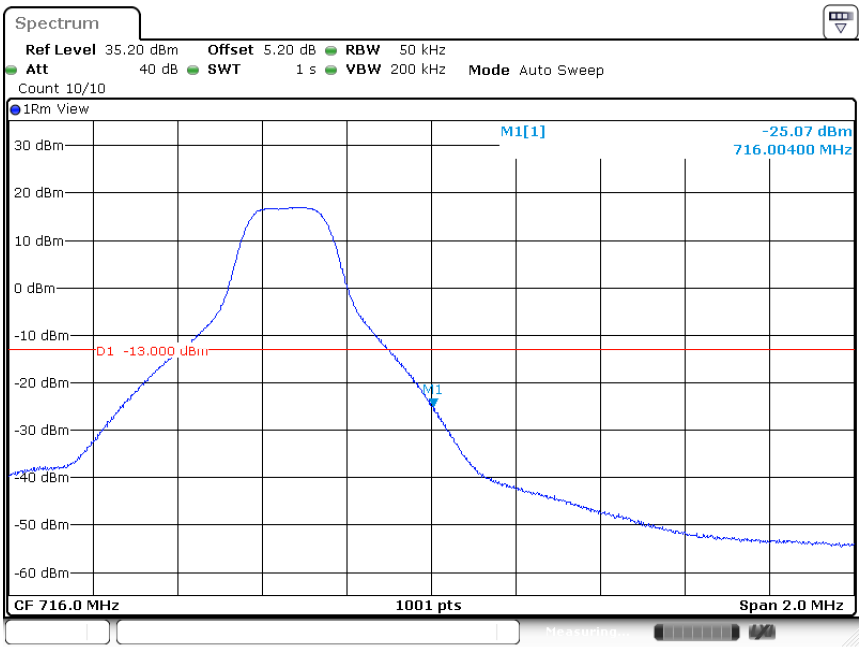
Band17-5MHz-64QAM-23825-1RB#24



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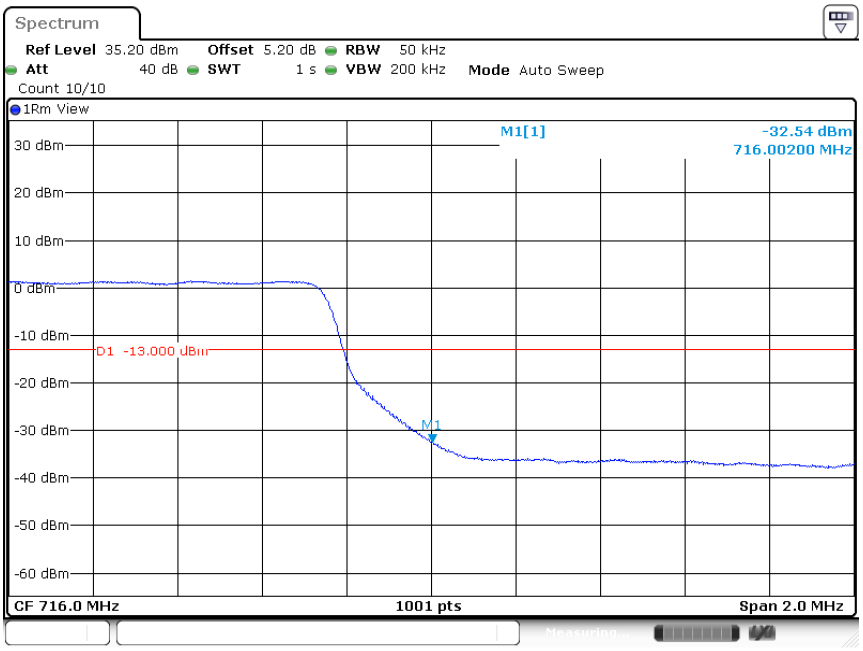

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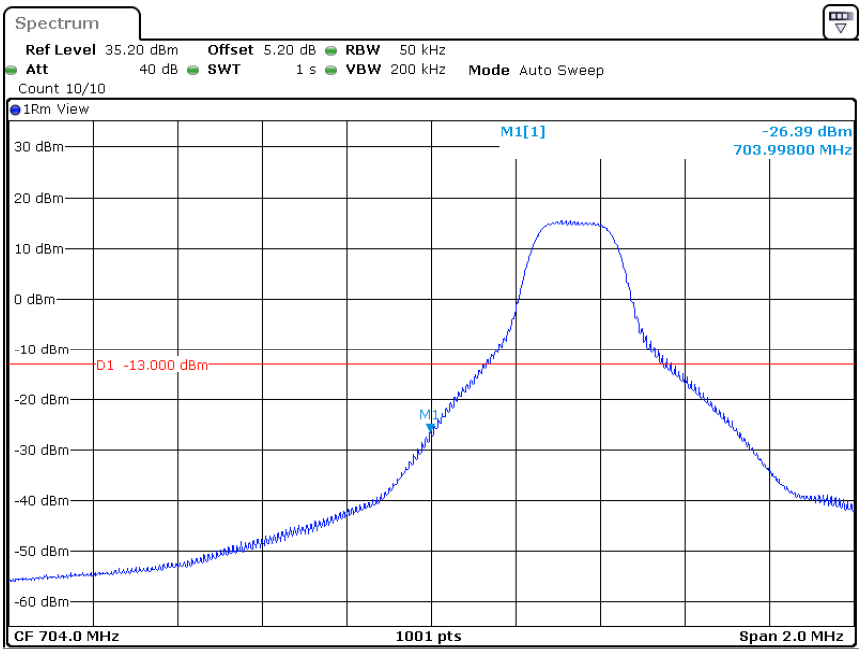
Band17-5MHz-16QAM-23755-1RB#0



Date: 16.JUL.2020 02:18:43

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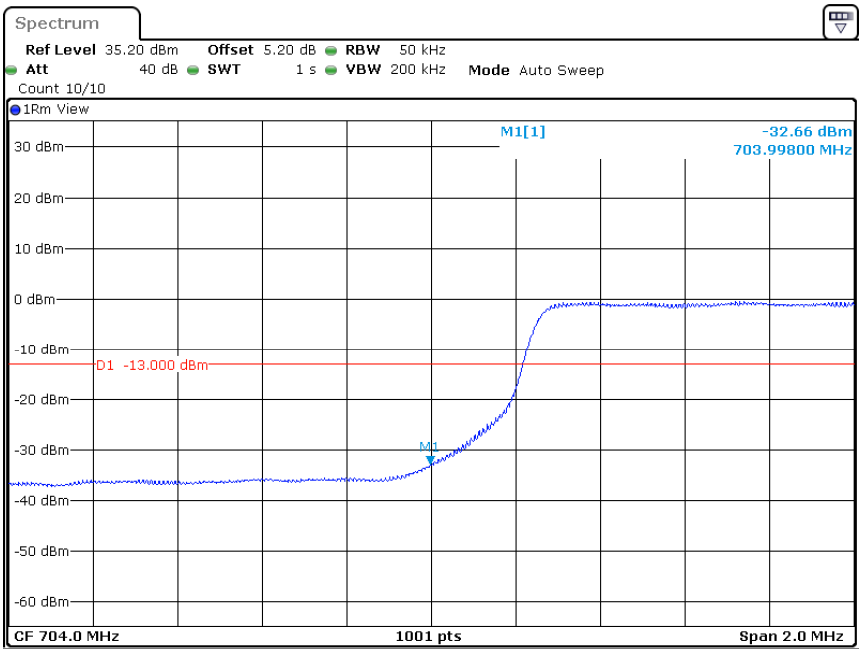

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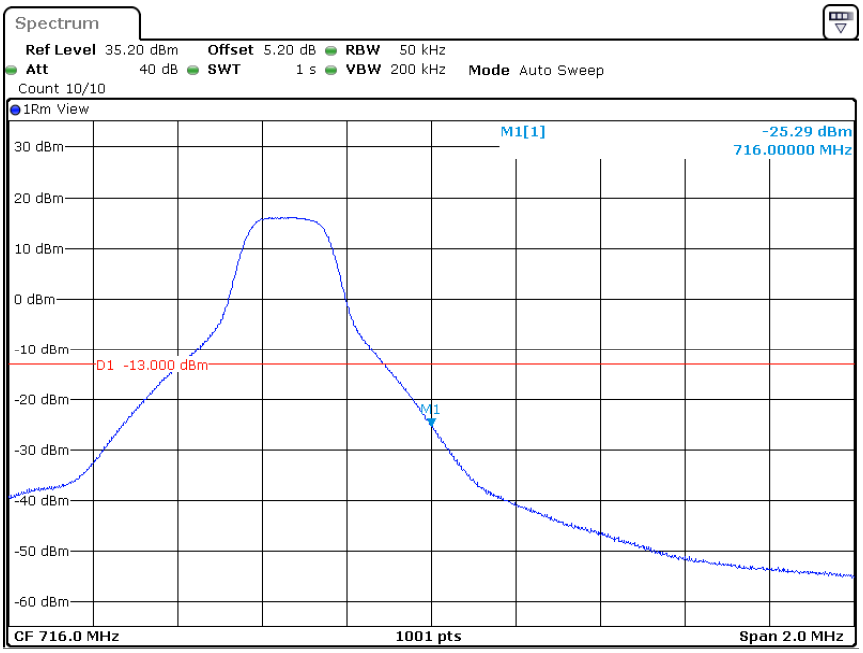

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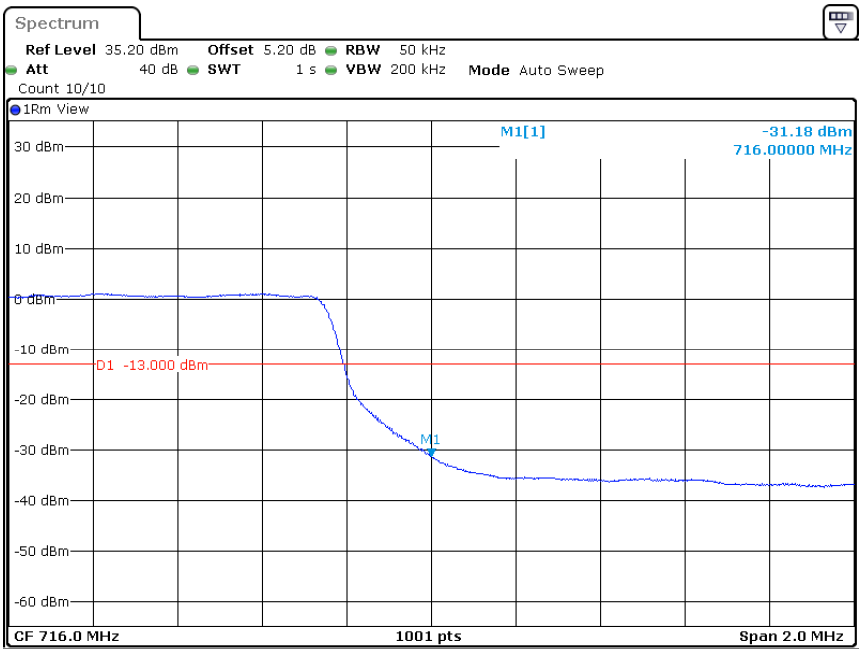

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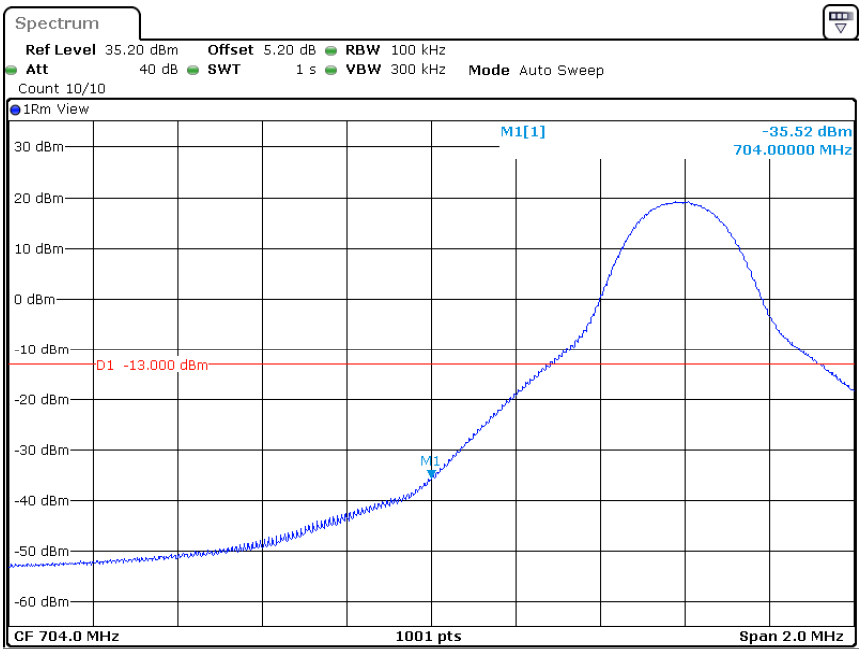

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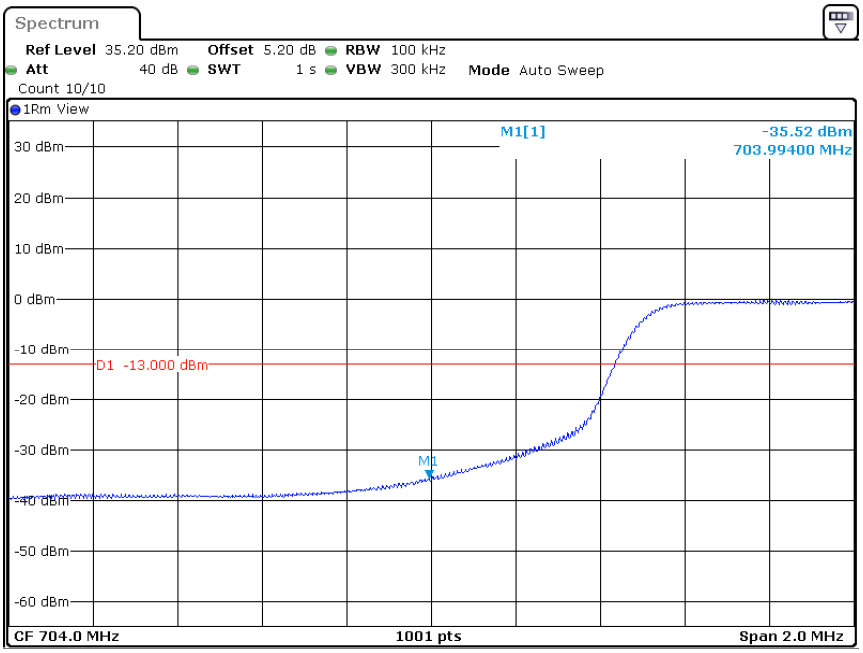
Band17-10MHz-QPSK-23780-50RB#0



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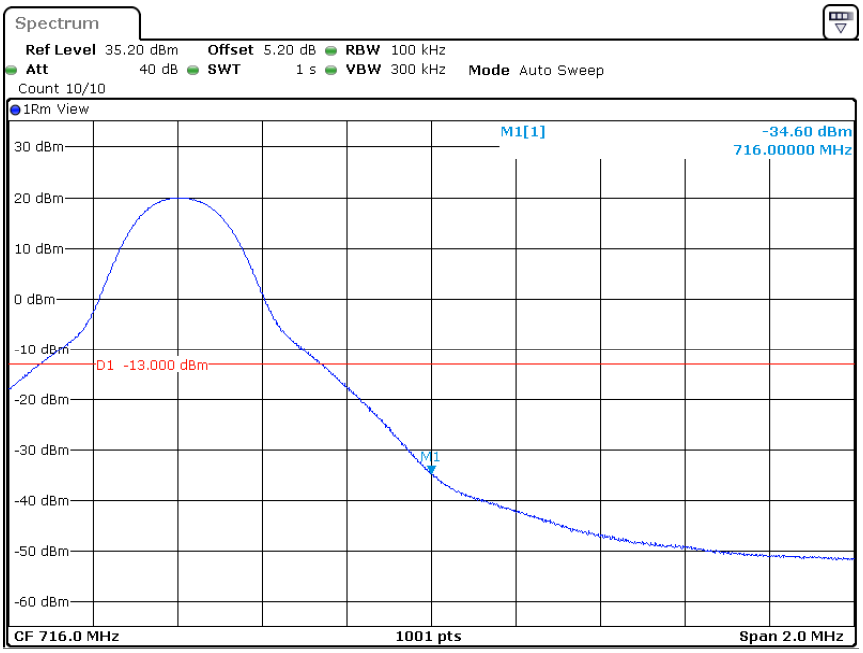

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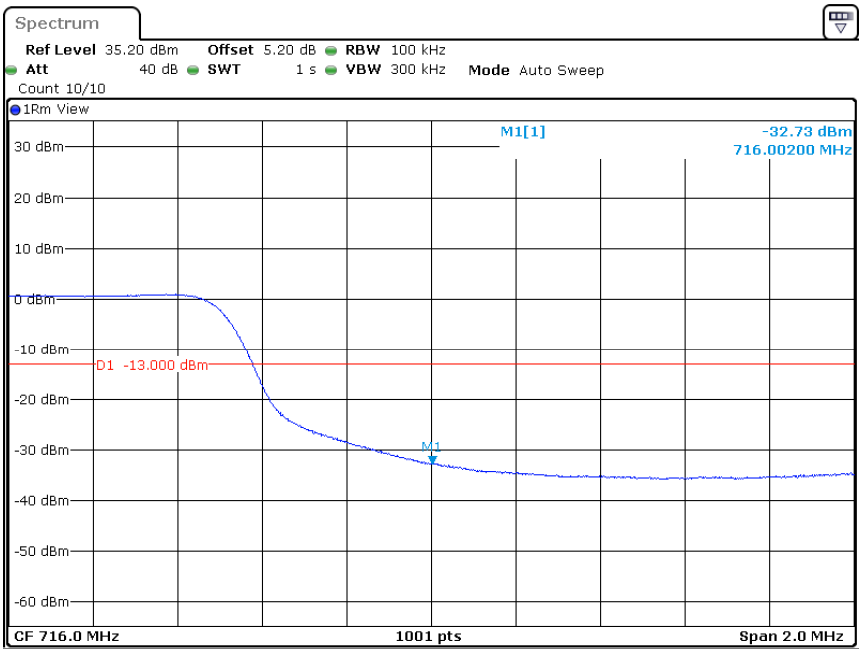

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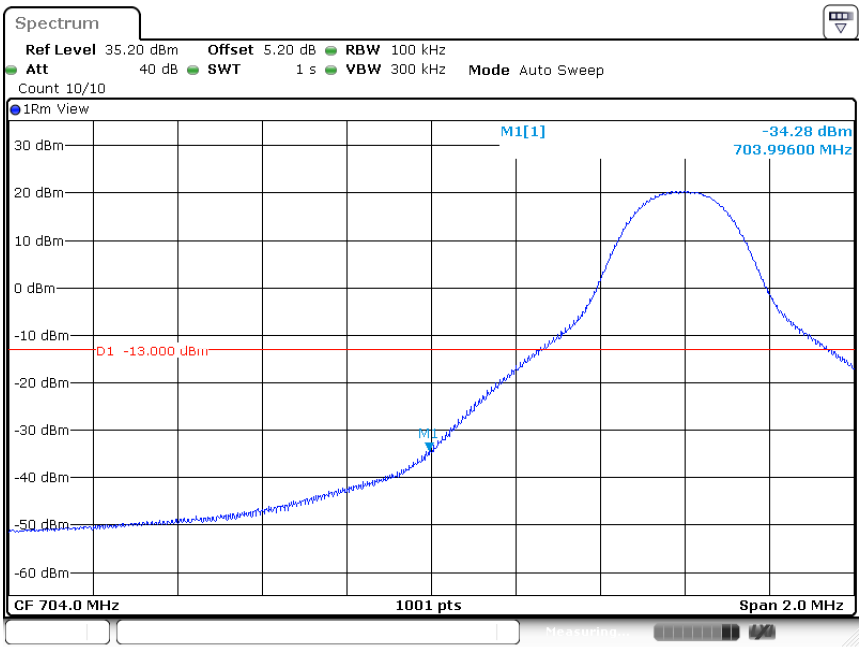

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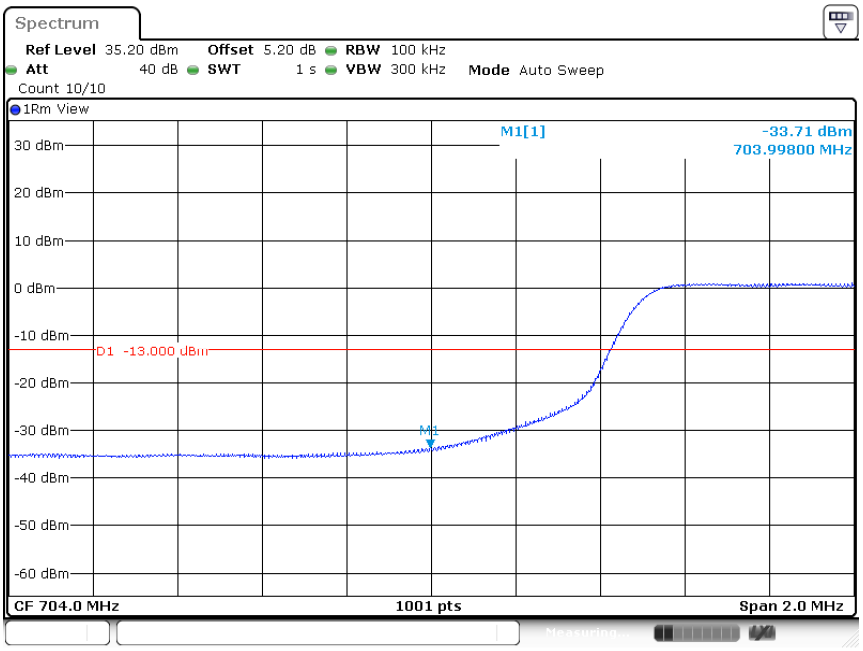

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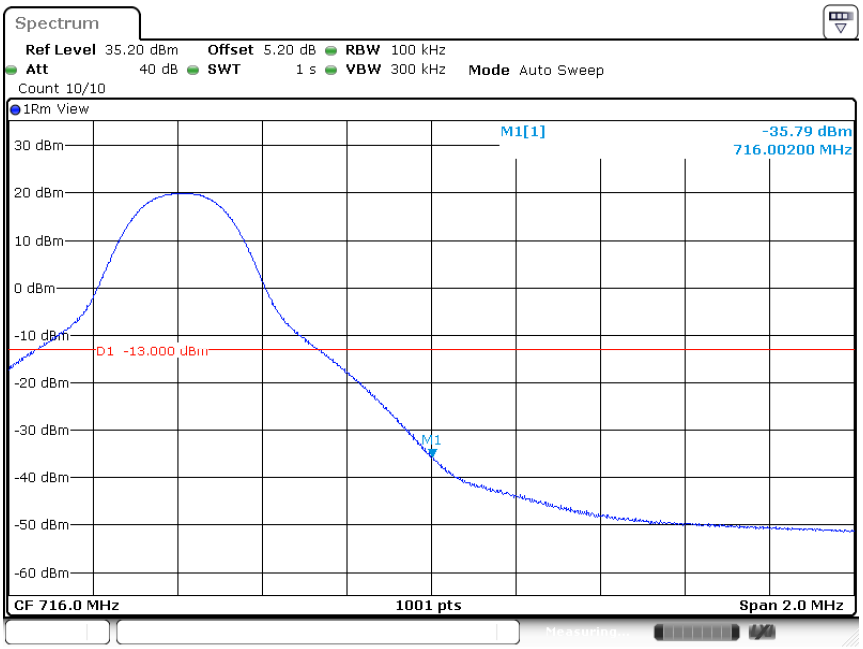

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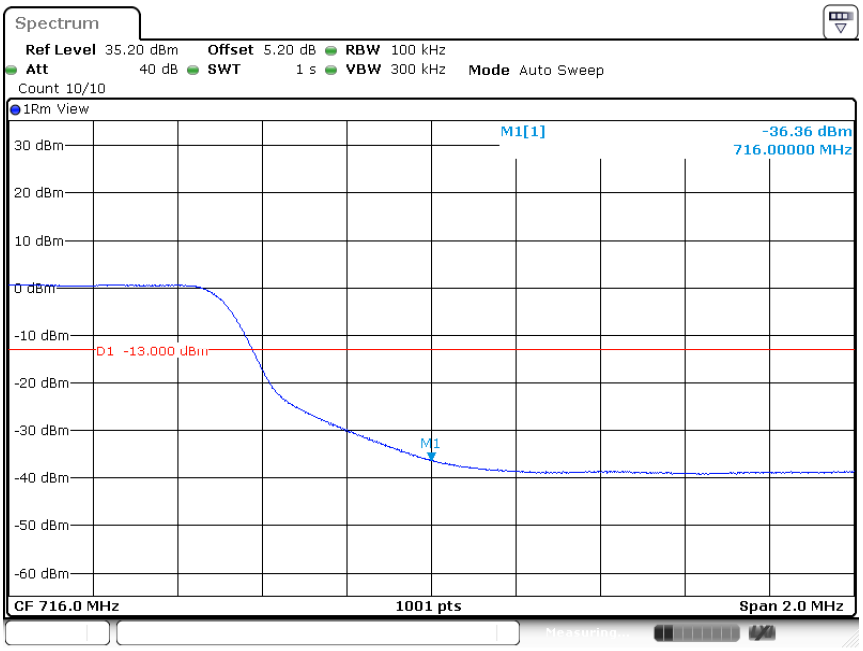
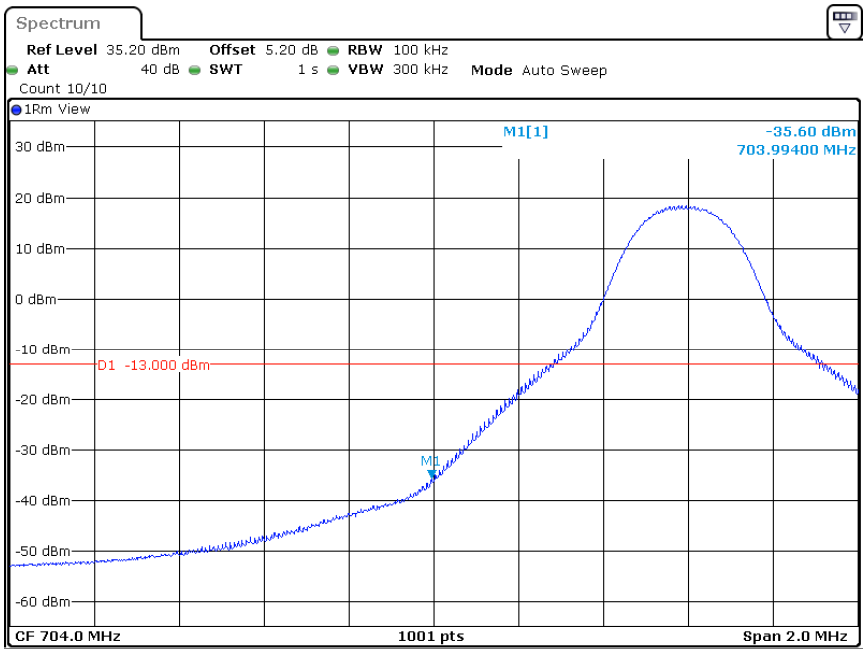
Band17-10MHz-64QAM-23800-50RB#0



Date: 11.AUG.2020 09:00:39

Band17-10MHz-16QAM-23780-1RB#0



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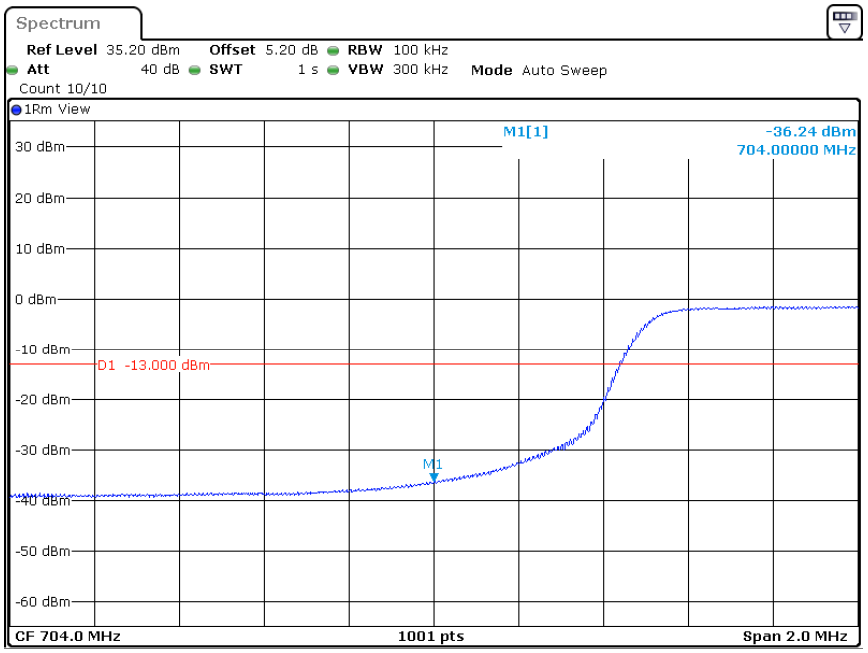
Band17-10MHz-16QAM-23780-50RB#0



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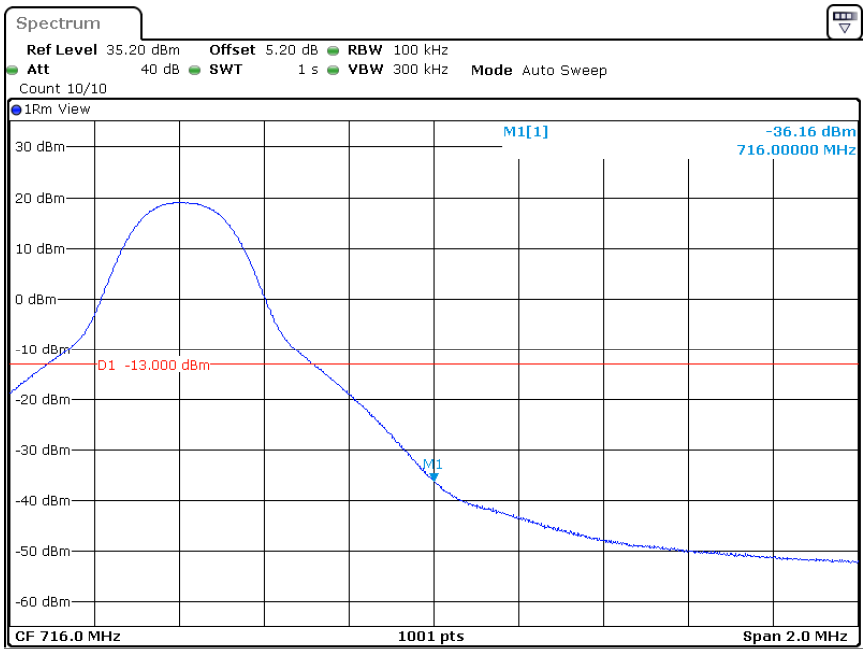
Band17-10MHz-16QAM-23800-1RB#49



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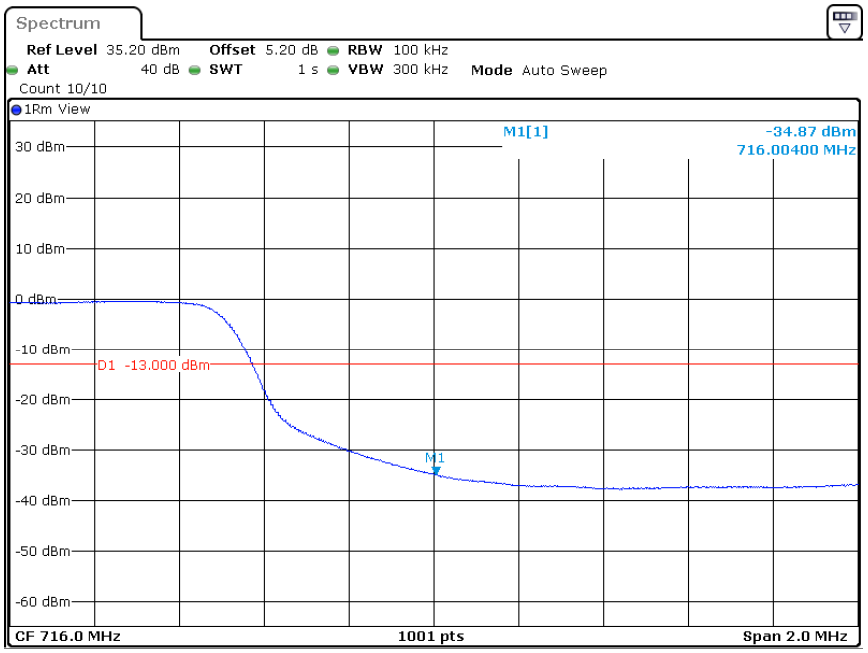
Band17-10MHz-16QAM-23800-50RB#0



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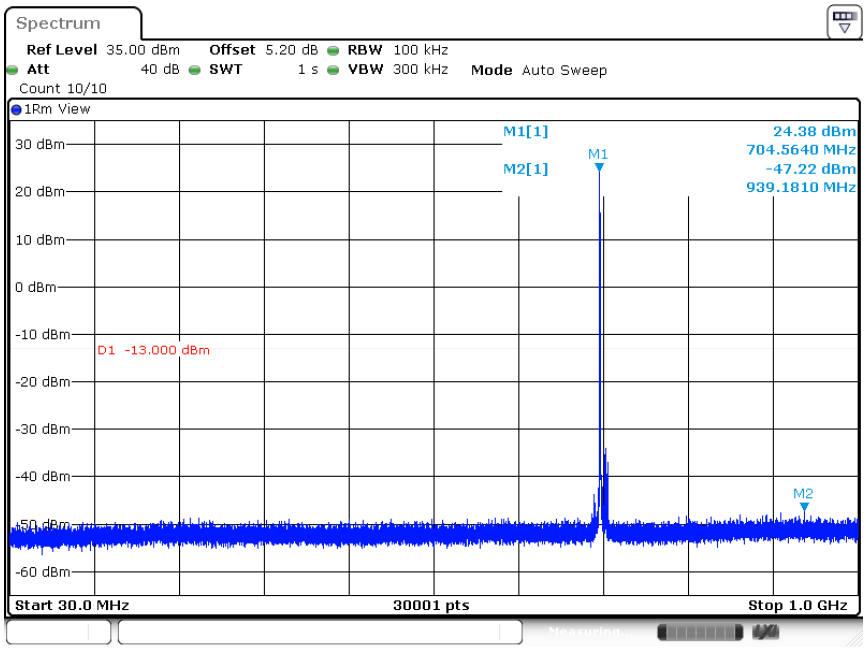
6. Spurious Emission at Antenna Terminal

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: only the worst case data displayed in this report.

6.1. Test Plots

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



Date: 10.AUG.2020 22:30:15

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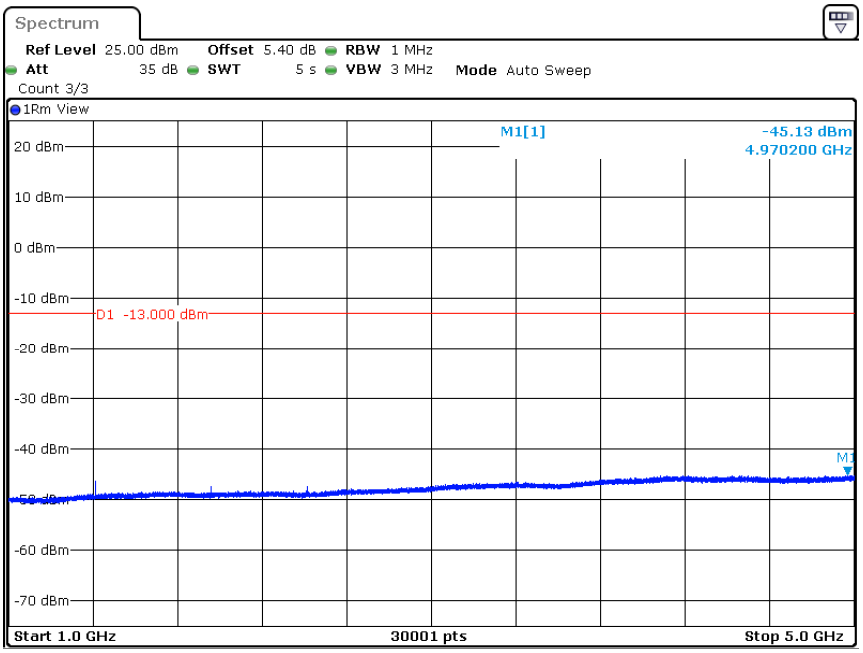
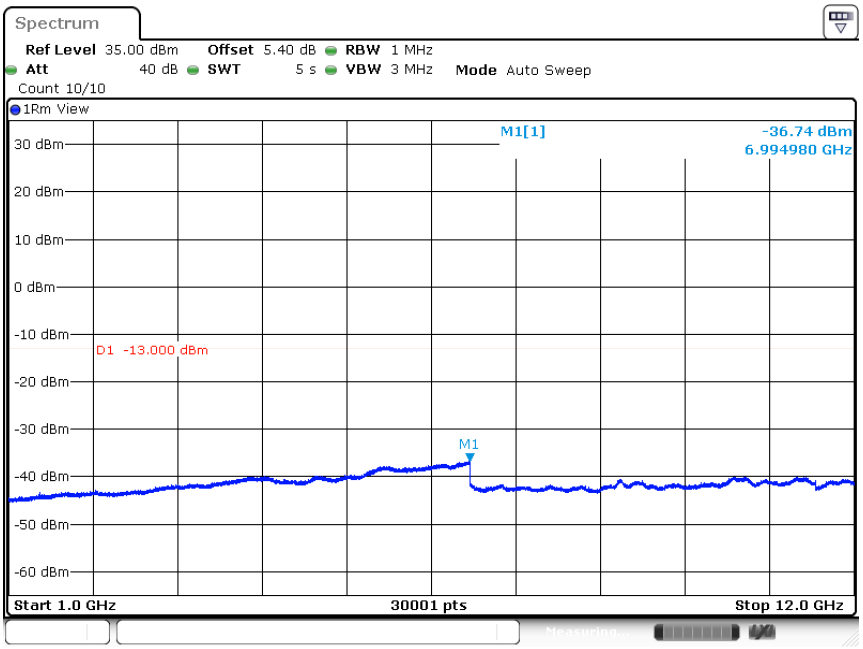
Band17-10MHz-QPSK-23780-1RB#0-Range2:1000~5000MHz



Date: 16.JUL.2020 02:24:21

Band17-10MHz-QPSK-23780-1RB#0-Range2:1000~12000MHz



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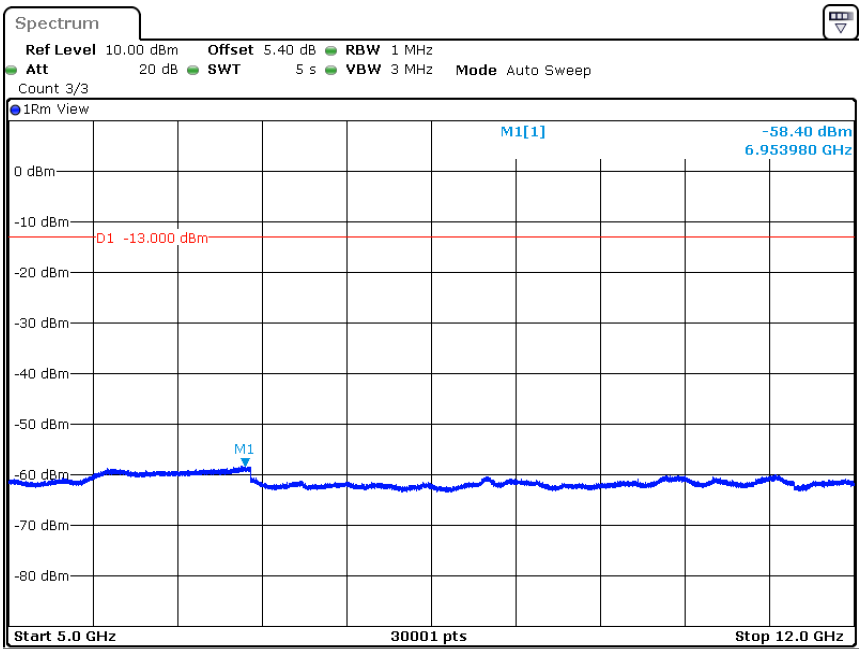
Band17-10MHz-QPSK-23780-1RB#0-Range3:5000~12000MHz



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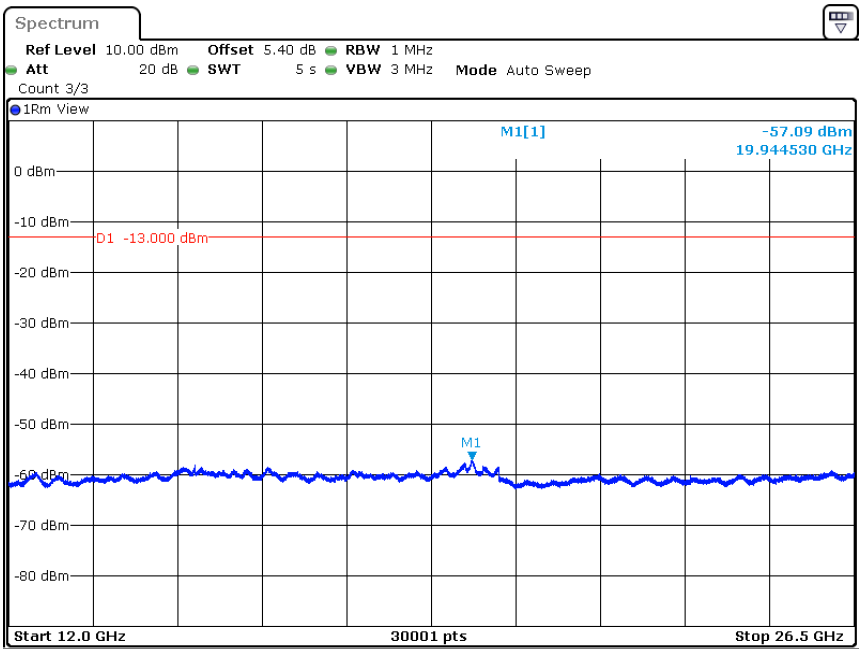

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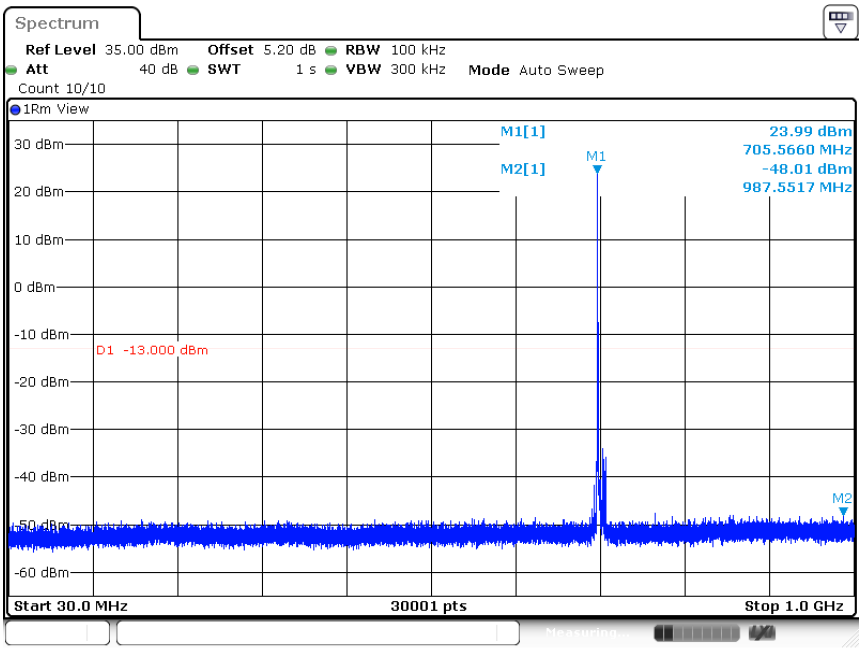
Band17-10MHz-QPSK-23790-1RB#0-Range1:30~1000MHz



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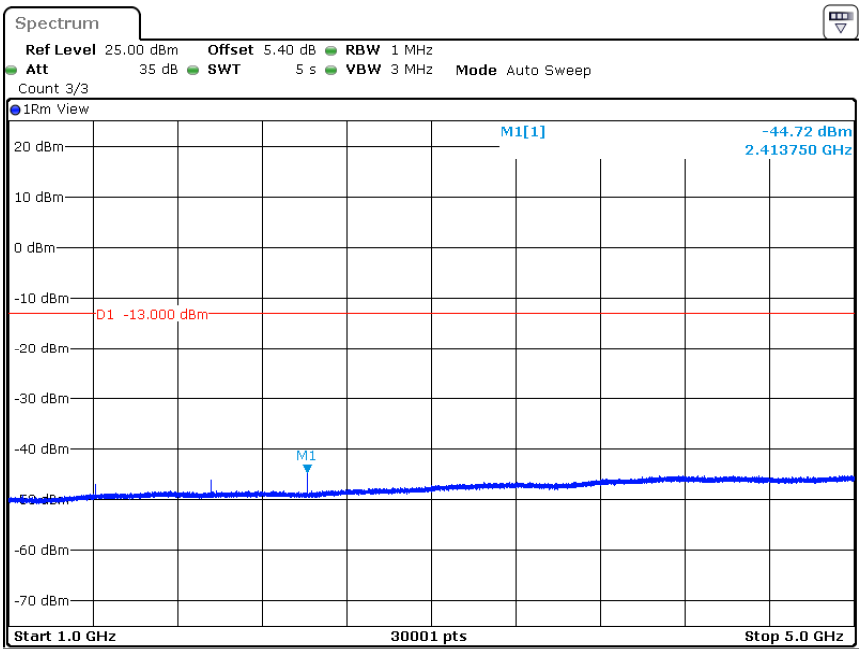
Band17-10MHz-QPSK-23790-1RB#0-Range2:1000~5000MHz



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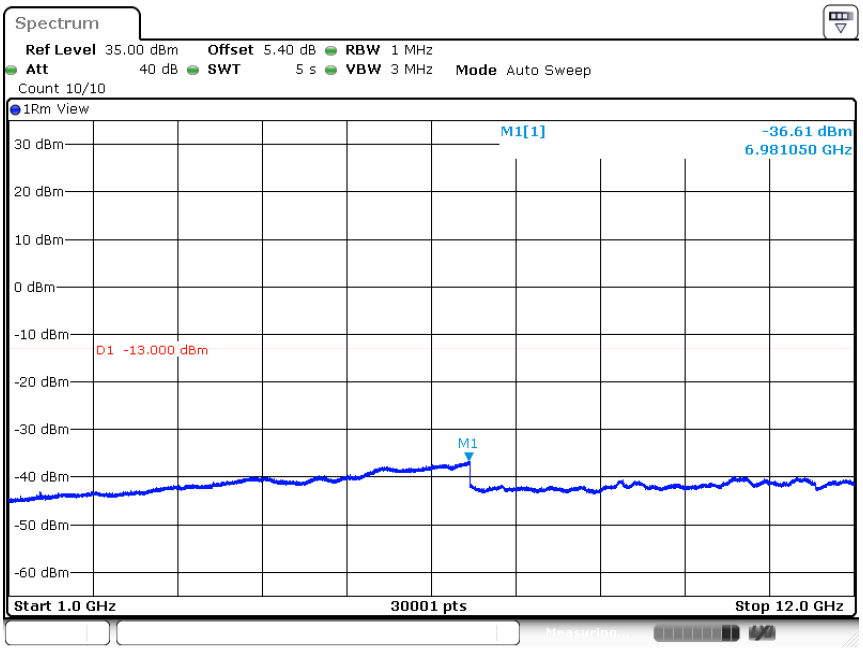
Band17-10MHz-QPSK-23790-1RB#0-Range2:1000~12000MHz



Date: 10.AUG.2020 22:34:17

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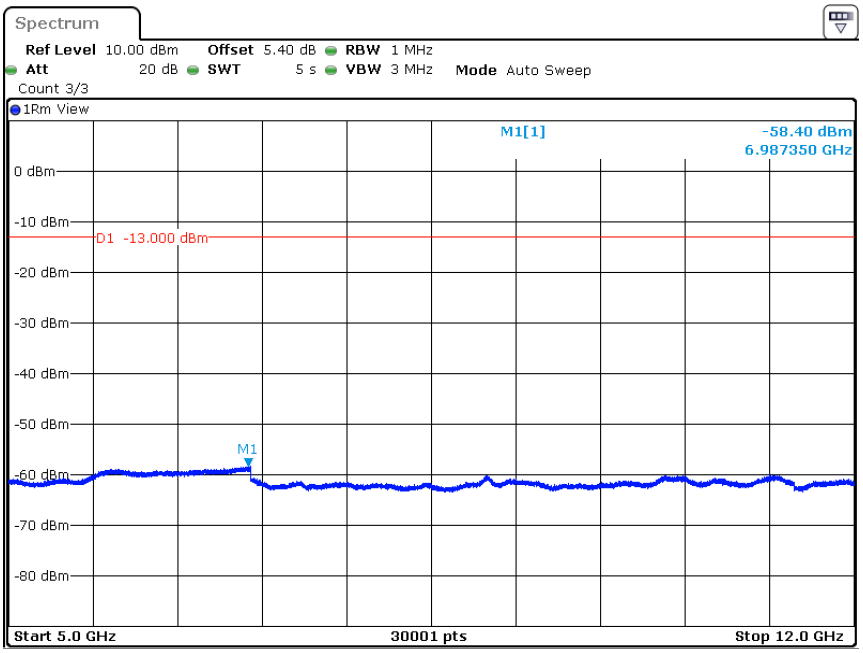

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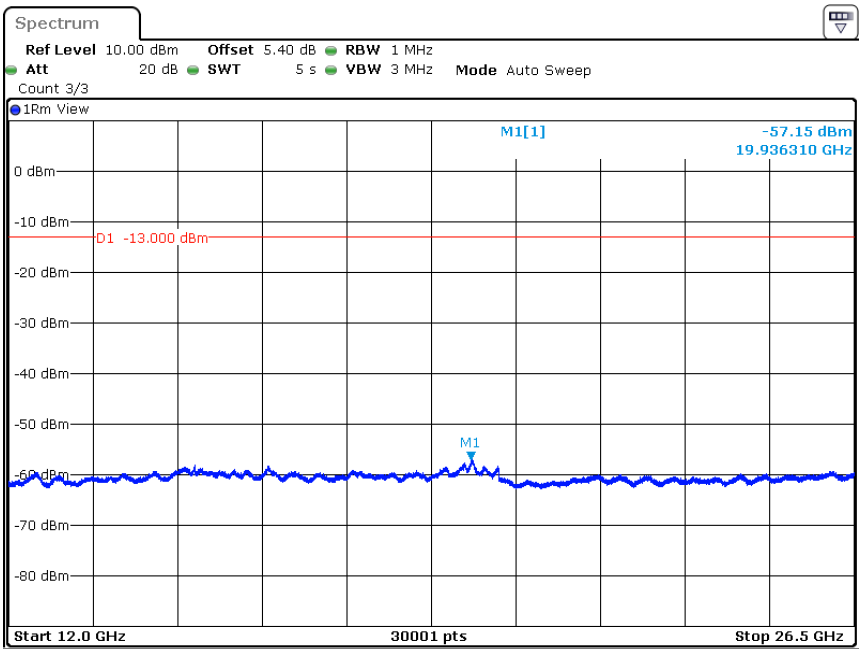
Band17-10MHz-QPSK-23790-1RB#0-Range4:12000~26500MHz



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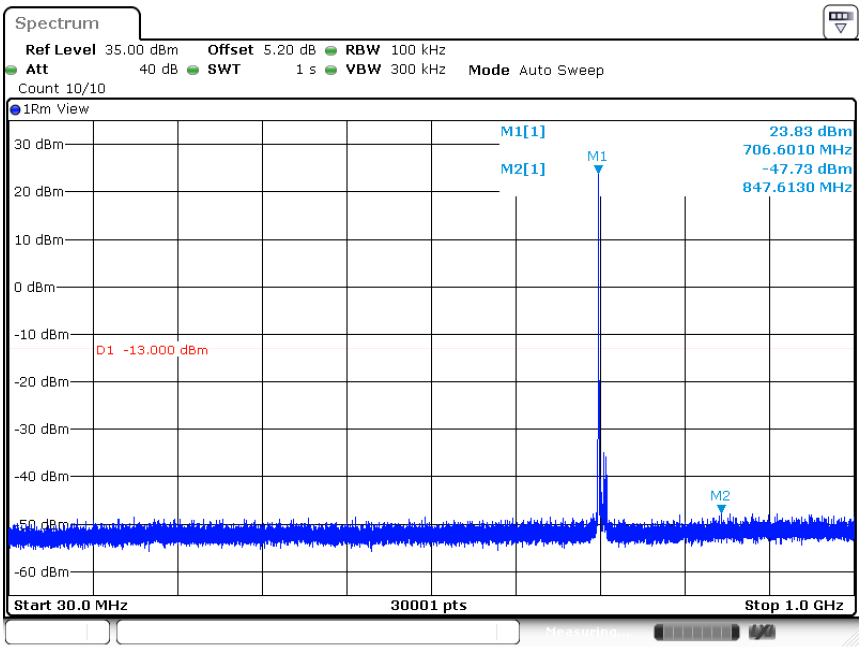
Band17-10MHz-QPSK-23800-1RB#0-Range1:30~1000MHz



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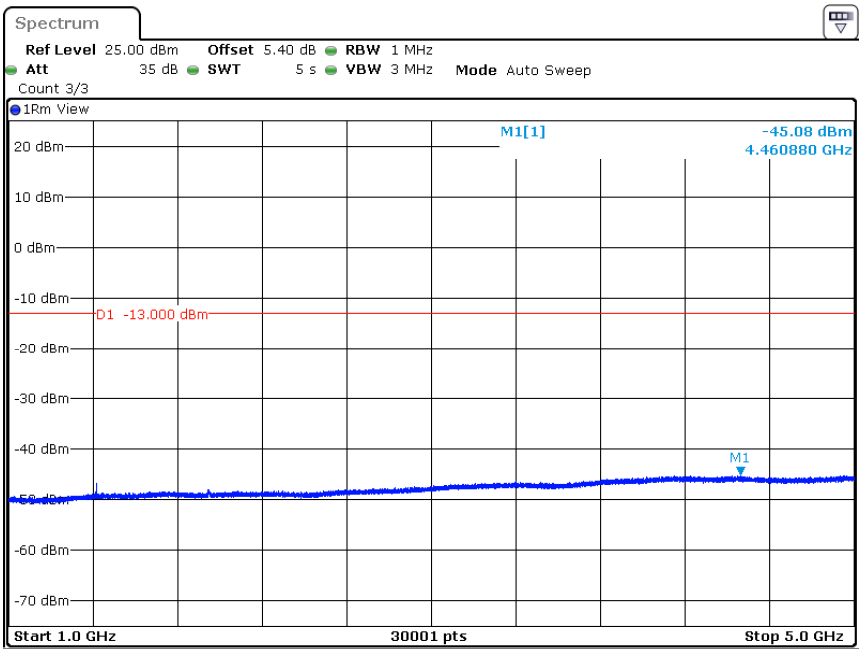
Band17-10MHz-QPSK-23800-1RB#0-Range2:1000~5000MHz



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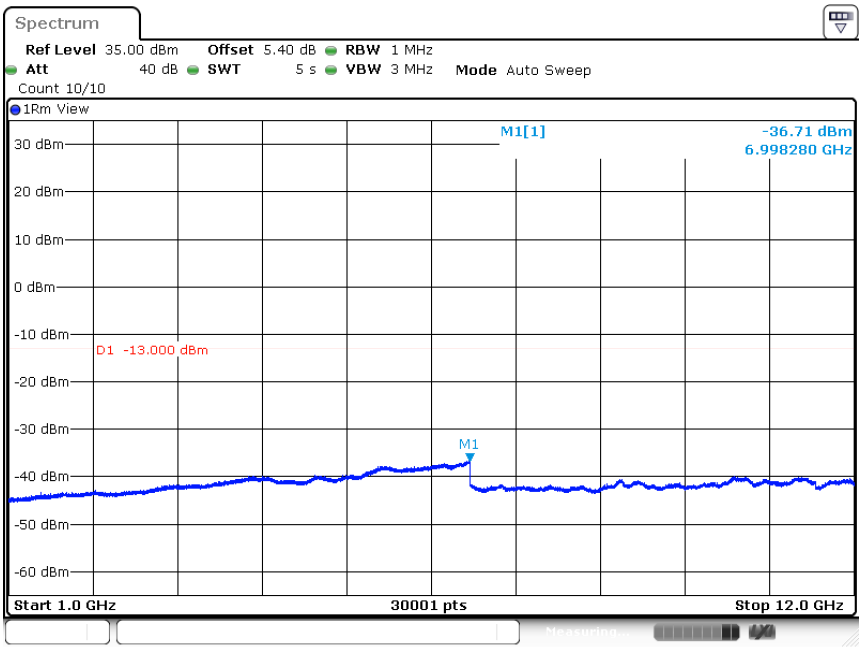

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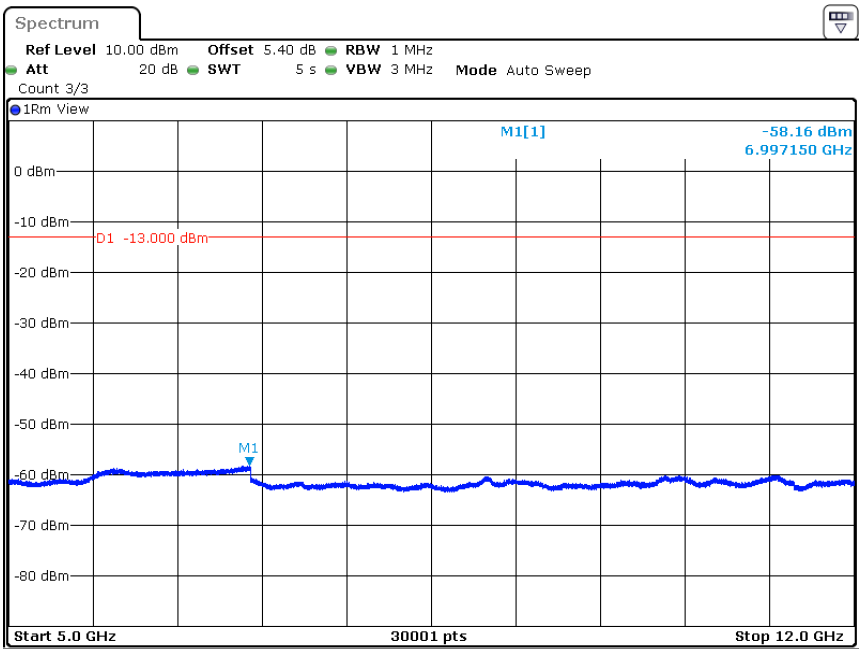
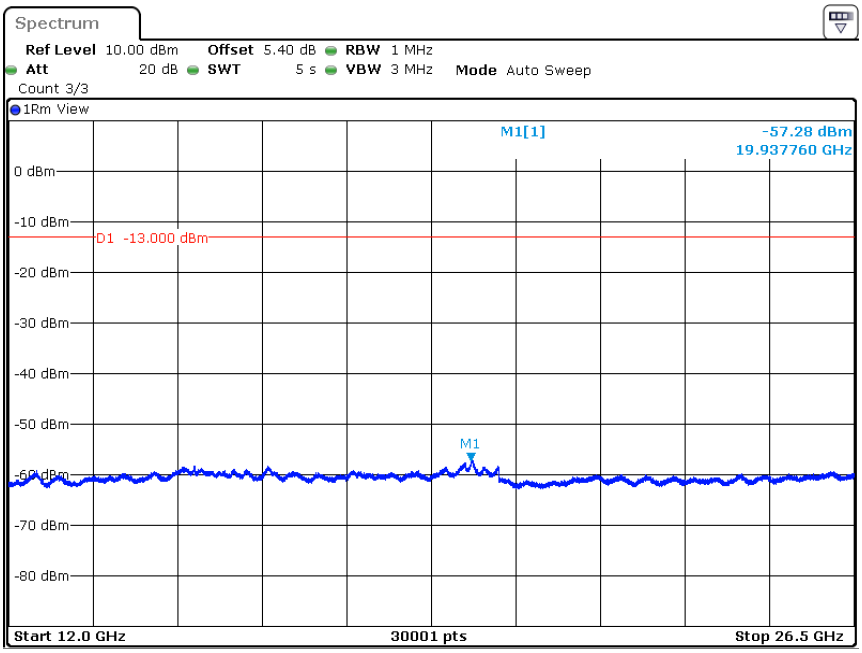
Band17-10MHz-QPSK-23800-1RB#0-Range3:5000~12000MHz



Date: 16.JUL.2020 02:29:54

Band17-10MHz-QPSK-23800-1RB#0-Range4:12000~26500MHz



Date: 16.JUL.2020 02:30:16

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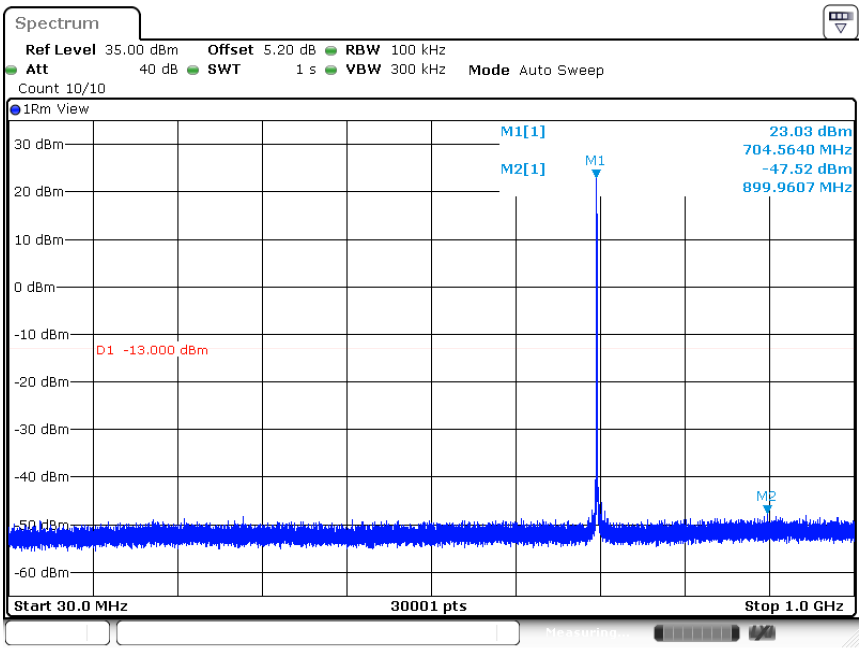
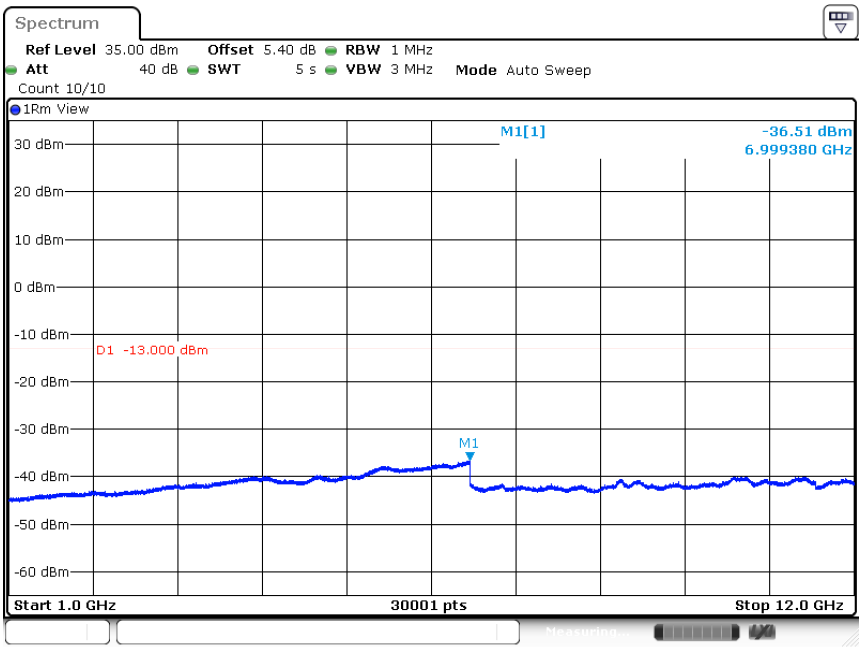
Band17-10MHz-64QAM-23780-1RB#0-Range1:30~1000MHz



Date: 11.AUG.2020 09:01:04

Band17-10MHz-64QAM-23780-1RB#0-Range2:1000~12000MHz



Date: 11.AUG.2020 09:02:12

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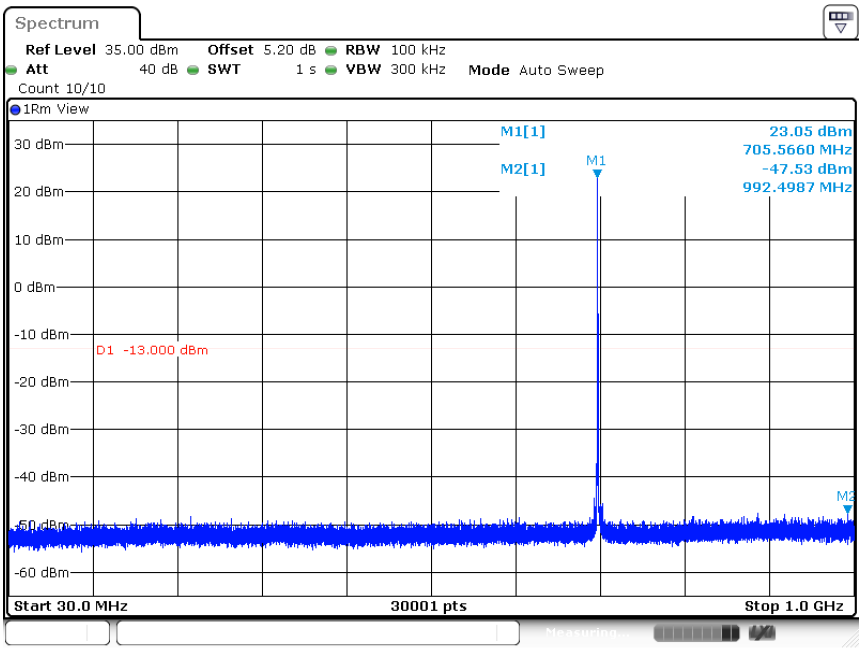
Band17-10MHz-64QAM-23790-1RB#0-Range1:30~1000MHz



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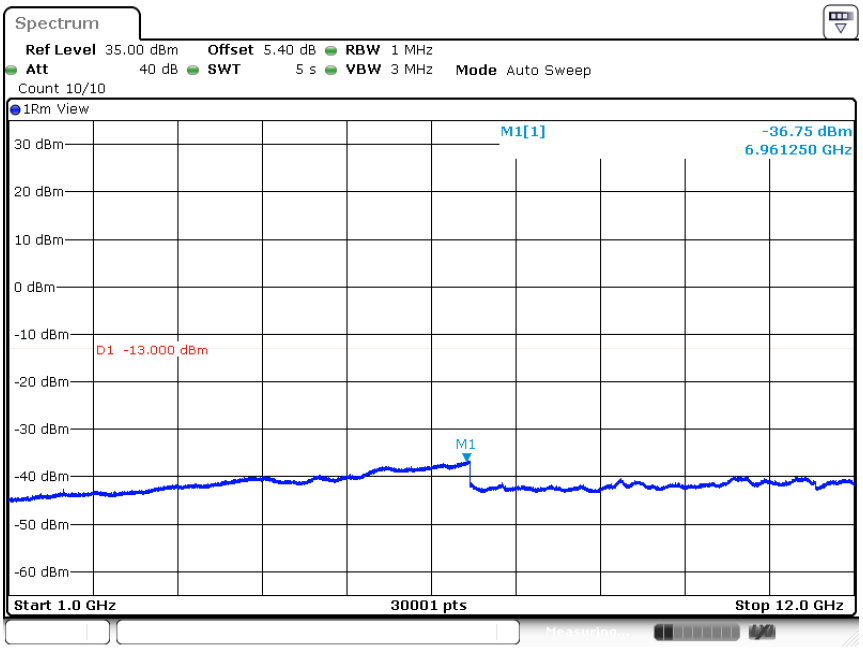
Band17-10MHz-64QAM-23790-1RB#0-Range2:1000~12000MHz



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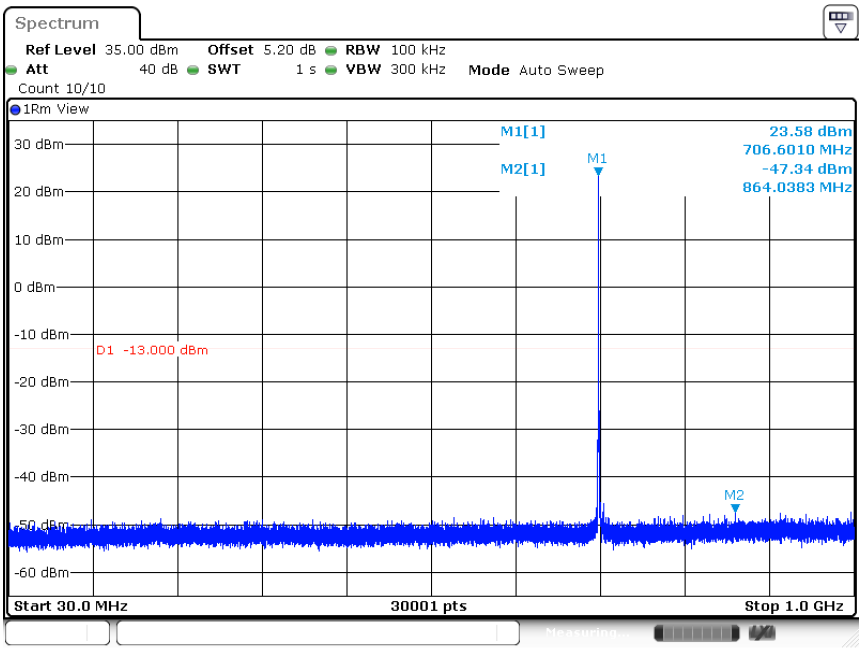
Band17-10MHz-64QAM-23800-1RB#0-Range1:30~1000MHz



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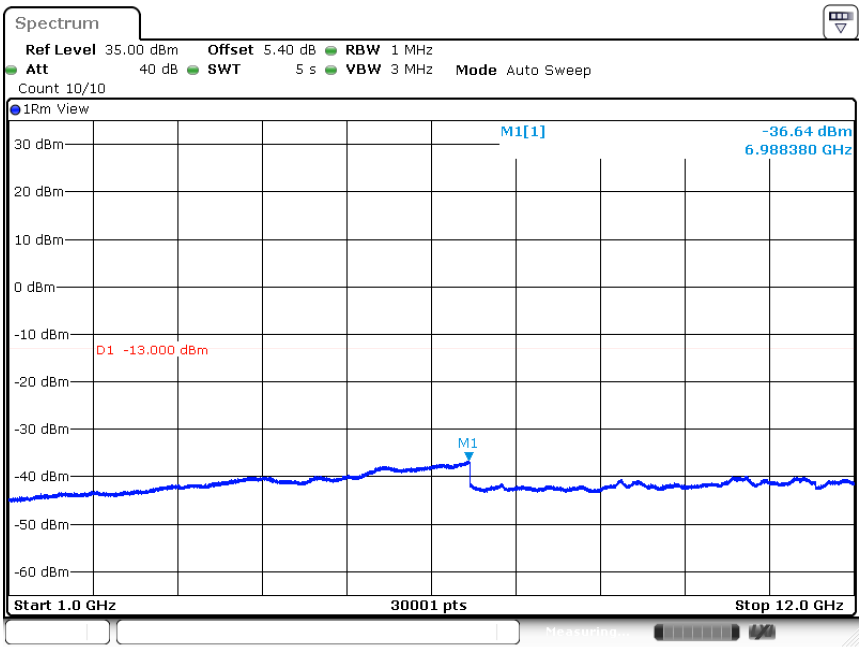
Band17-10MHz-64QAM-23800-1RB#0-Range2:1000~12000MHz



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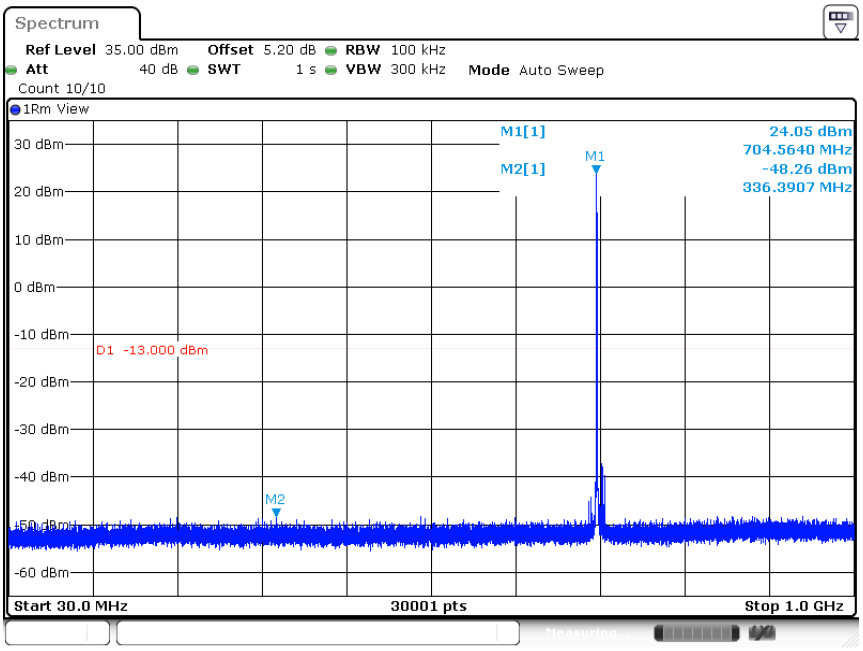
Band17-10MHz-16QAM-23780-1RB#0-Range1:30~1000MHz



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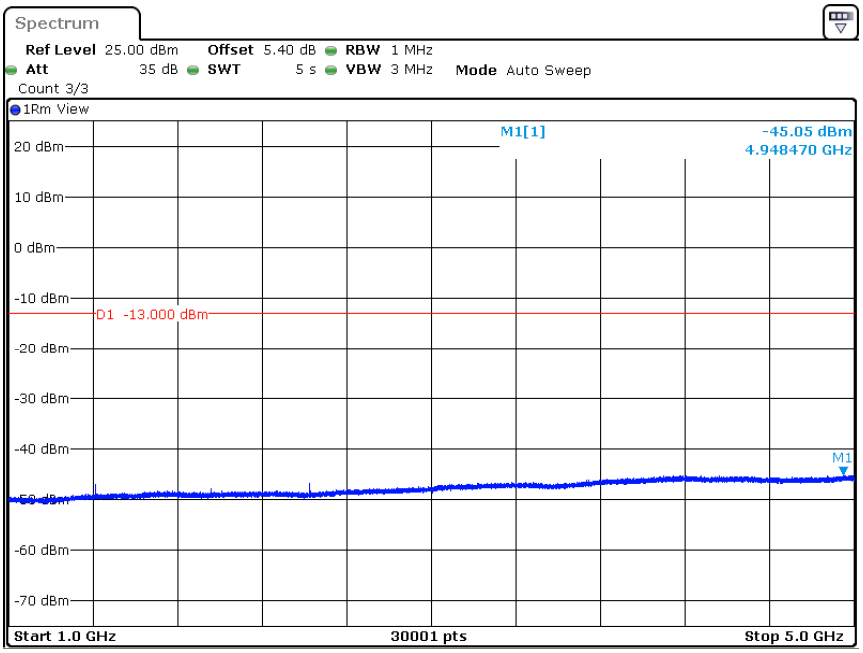
Band17-10MHz-16QAM-23780-1RB#0-Range2:1000~5000MHz



Date: 16.JUL.2020 02:25:38

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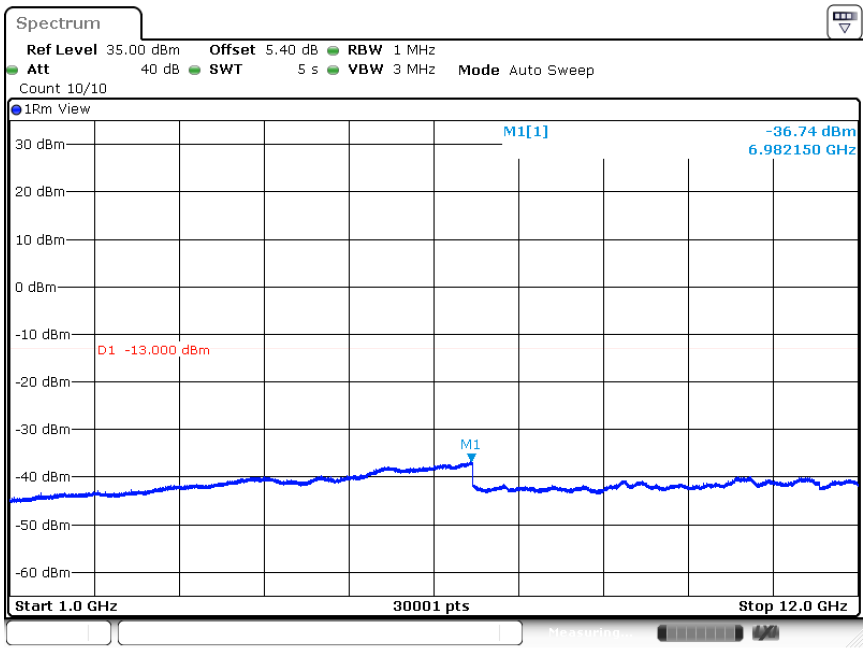
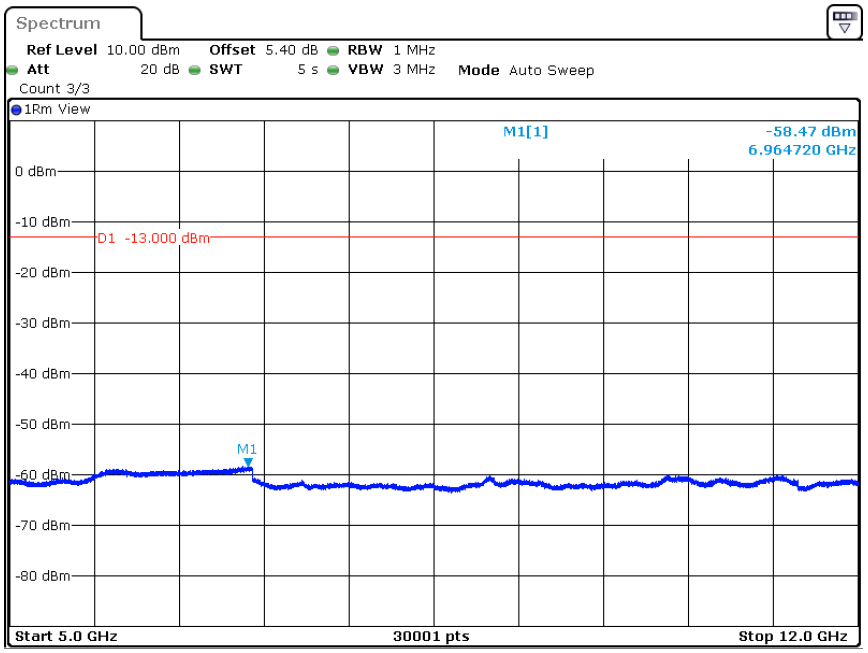
Band17-10MHz-16QAM-23780-1RB#0-Range2:1000~12000MHz



Date: 10.AUG.2020 22:32:49

Band17-10MHz-16QAM-23780-1RB#0-Range3:5000~12000MHz



Date: 16.JUL.2020 02:26:00

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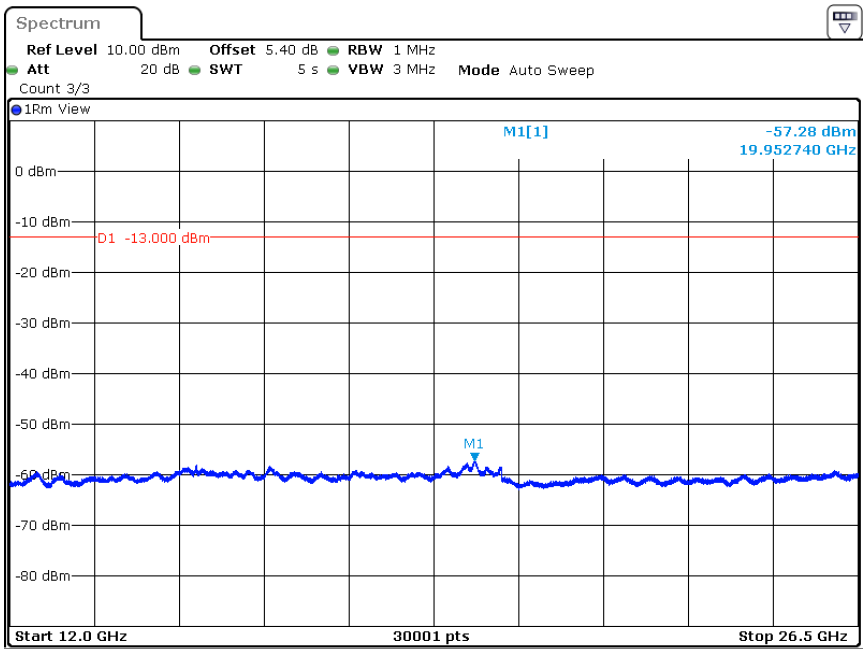
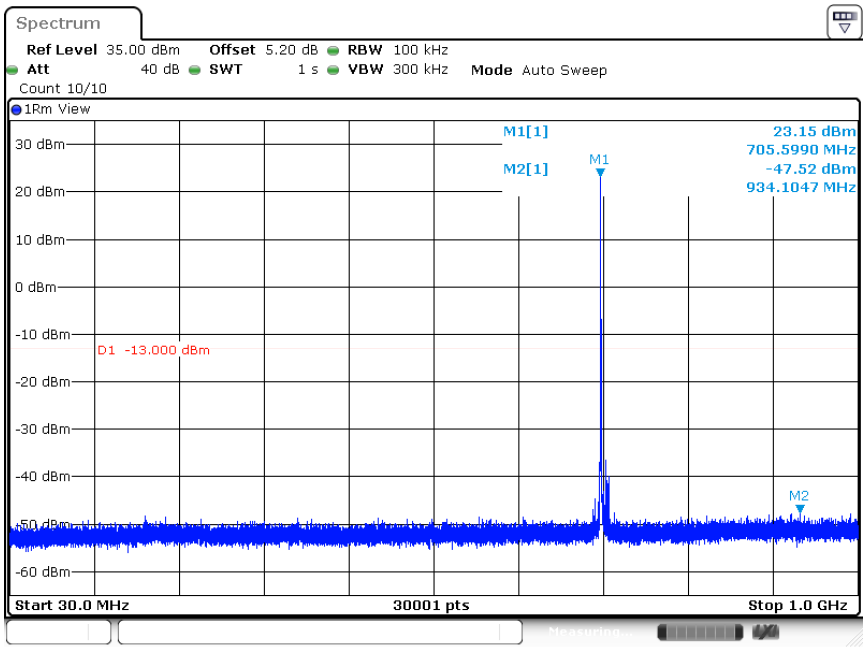
Band17-10MHz-16QAM-23780-1RB#0-Range4:12000~26500MHz



Date: 16.JUL.2020 02:26:22

Band17-10MHz-16QAM-23790-1RB#0-Range1:30~1000MHz



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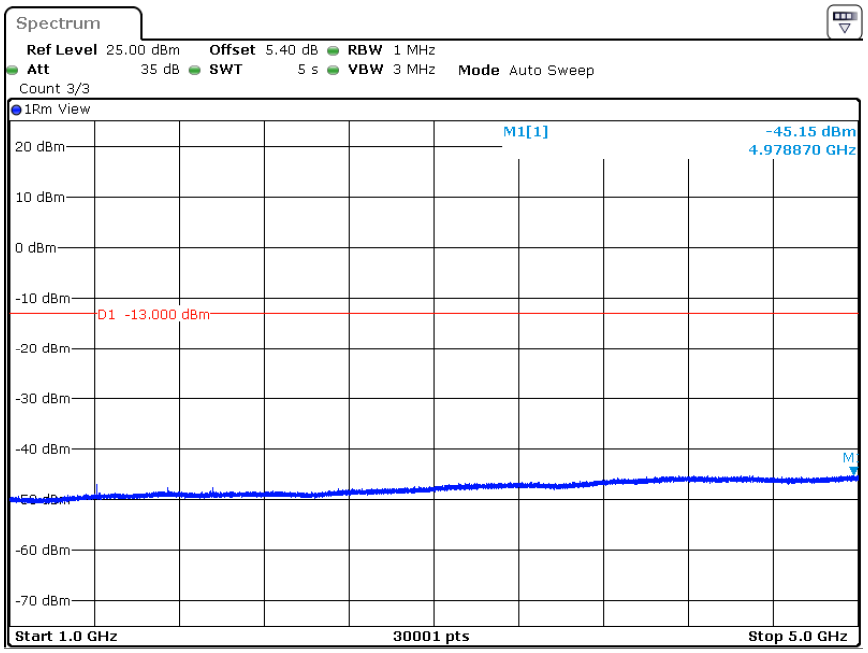
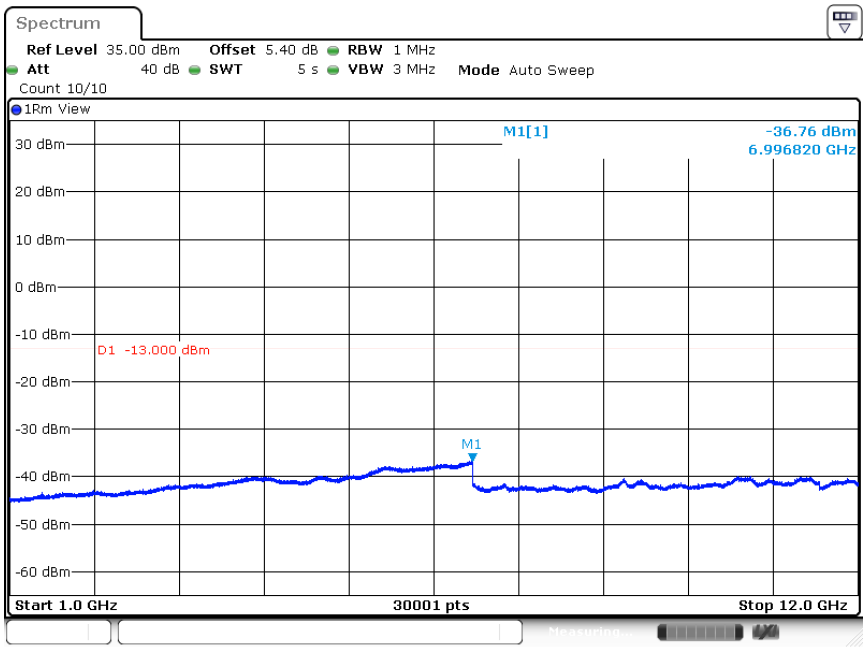
Band17-10MHz-16QAM-23790-1RB#0-Range2:1000~5000MHz



Date: 16.JUL.2020 02:28:14

Band17-10MHz-16QAM-23790-1RB#0-Range2:1000~12000MHz



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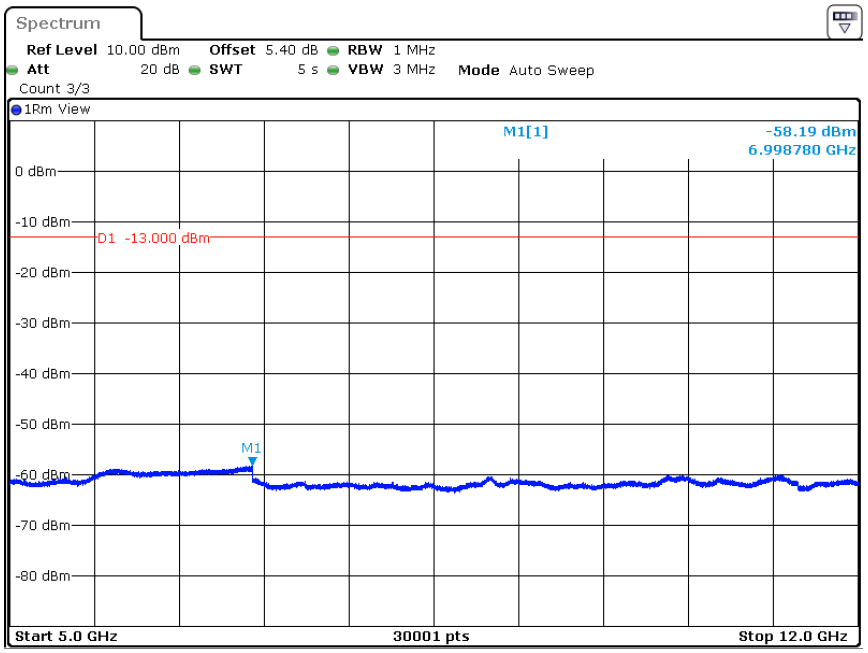
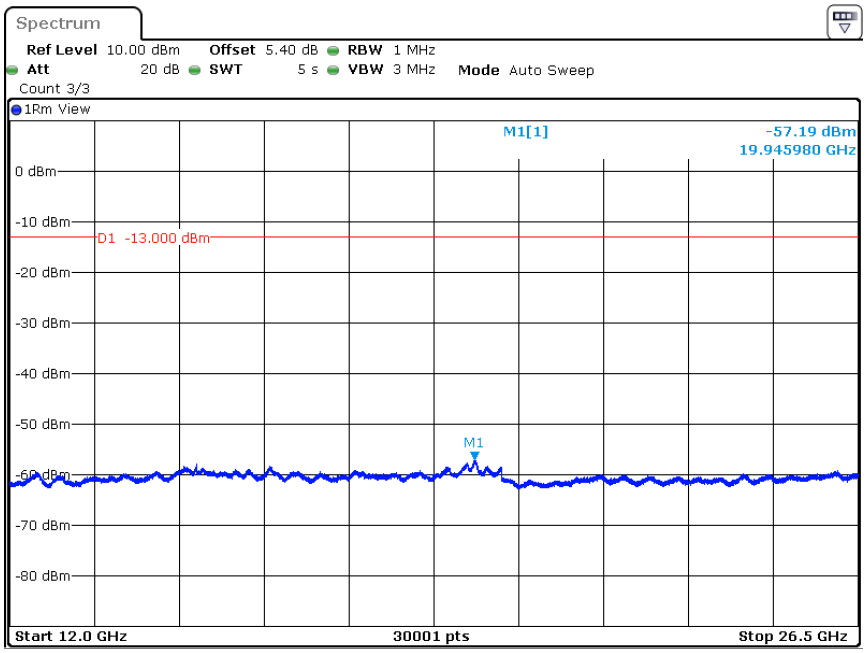
Band17-10MHz-16QAM-23790-1RB#0-Range3:5000~12000MHz



Date: 16.JUL.2020 02:28:36

Band17-10MHz-16QAM-23790-1RB#0-Range4:12000~26500MHz



Date: 16.JUL.2020 02:28:58

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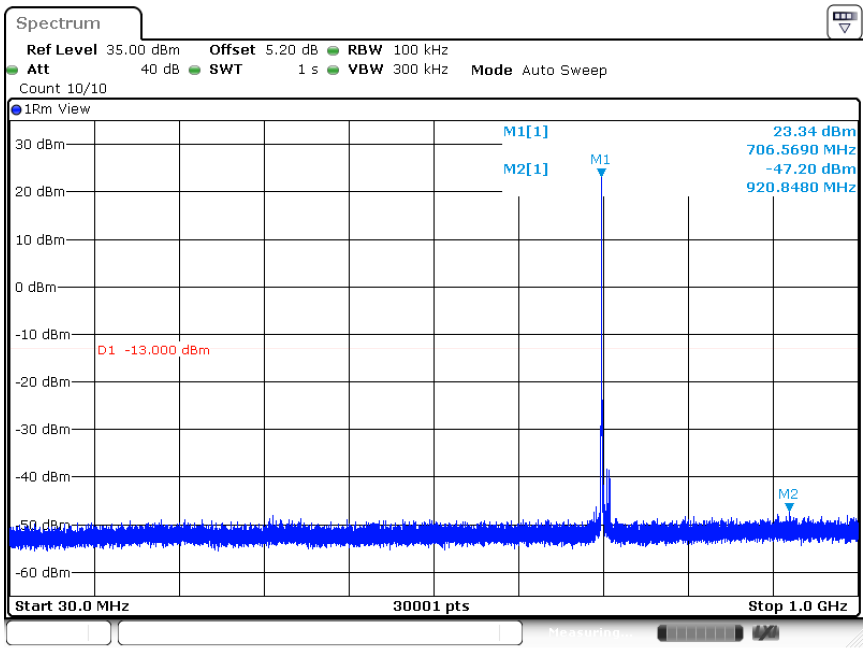
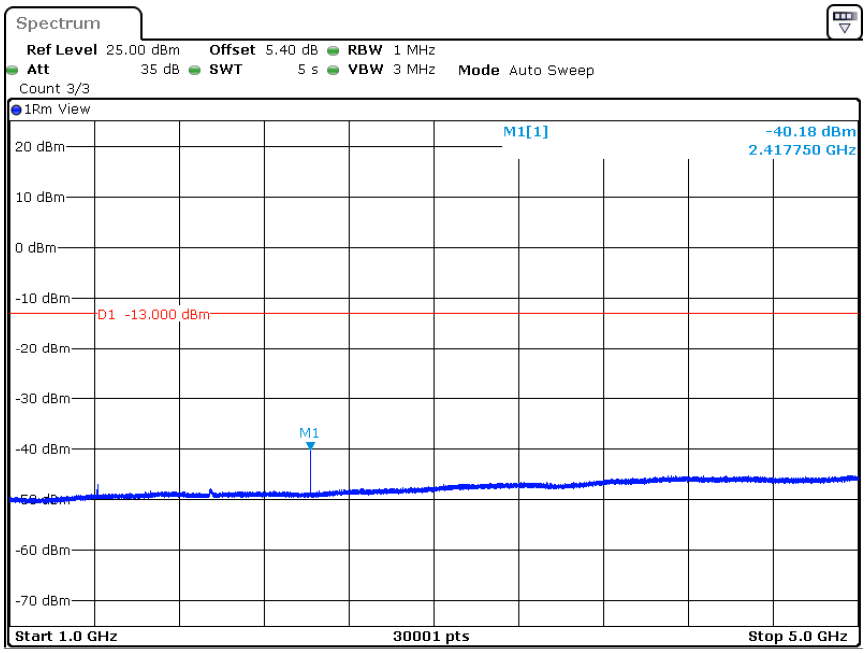
Band17-10MHz-16QAM-23800-1RB#0-Range1:30~1000MHz



Date: 10.AUG.2020 22:37:31

Band17-10MHz-16QAM-23800-1RB#0-Range2:1000~5000MHz



Date: 16.JUL.2020 02:30:50

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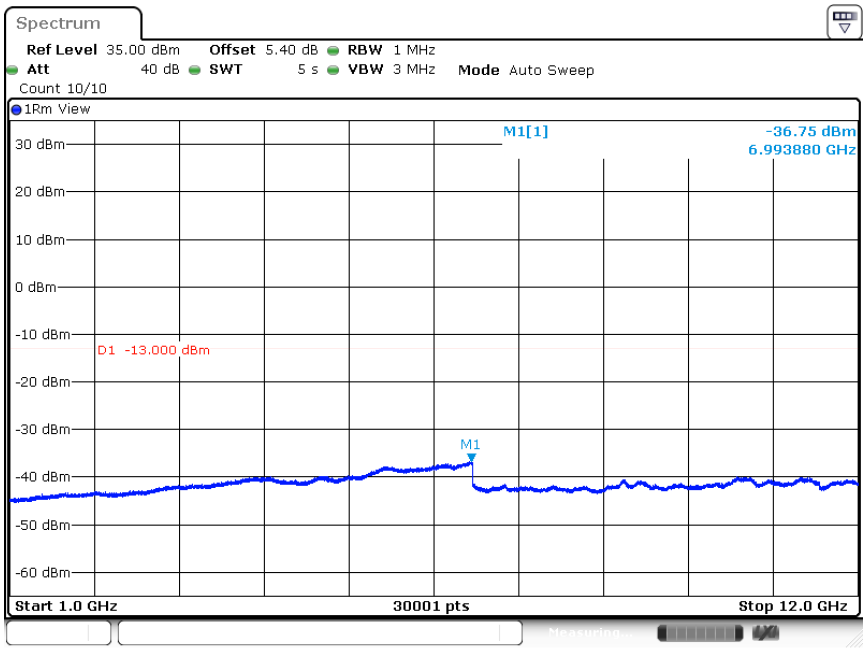
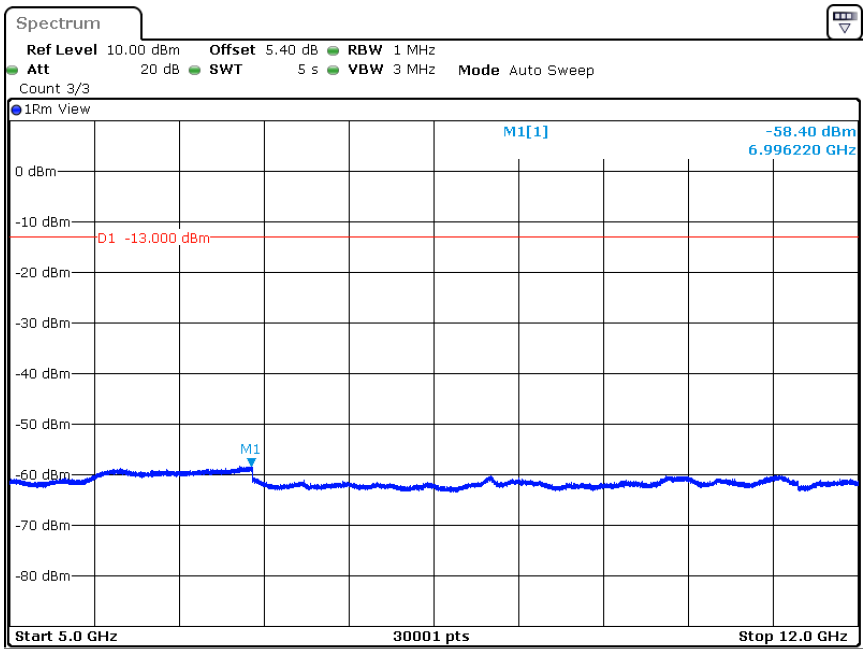
Band17-10MHz-16QAM-23800-1RB#0-Range2:1000~12000MHz



Date: 10.AUG.2020 22:38:38

Band17-10MHz-16QAM-23800-1RB#0-Range3:5000~12000MHz



Date: 16.JUL.2020 02:31:12

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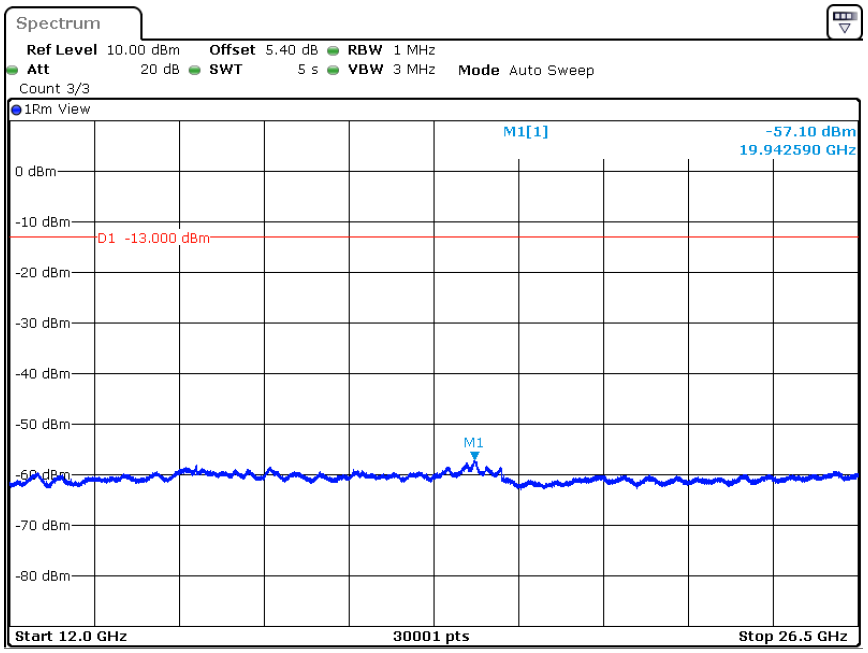
Band17-10MHz-16QAM-23800-1RB#0-Range4:12000~26500MHz



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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 10MHz

7.1.1.Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
74.4282	-61.98	-13.00	48.98	Vertical
108.1859	-64.69	-13.00	51.69	Vertical
295.7933	-69.73	-13.00	56.73	Vertical
1408.8818	-59.61	-13.00	46.61	Vertical
2592.3185	-57.74	-13.00	44.74	Vertical
7349.9740	-55.69	-13.00	42.69	Vertical
43.9687	-64.86	-13.00	51.86	Horizontal
68.0259	-68.55	-13.00	55.55	Horizontal
230.9941	-68.68	-13.00	55.68	Horizontal
1408.8818	-54.94	-13.00	41.94	Horizontal
2113.8228	-59.74	-13.00	46.74	Horizontal
7470.0988	-56.22	-13.00	43.22	Horizontal

7.1.2.Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
74.5737	-63.40	-13.00	50.40	Vertical
387.6084	-68.36	-13.00	55.36	Vertical
1410.8822	-56.91	-13.00	43.91	Vertical
3000.0000	-56.64	-13.00	43.64	Vertical
7372.9749	-55.90	-13.00	42.90	Vertical
17998.1999	-40.56	-13.00	27.56	Vertical
41.2526	-65.14	-13.00	52.14	Horizontal
232.1581	-68.98	-13.00	55.98	Horizontal
1411.2823	-49.68	-13.00	36.68	Horizontal
2117.0234	-57.75	-13.00	44.75	Horizontal
7475.5790	-55.83	-13.00	42.83	Horizontal
16402.7361	-44.10	-13.00	31.10	Horizontal

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7.1.3.Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
74.8162	-62.22	-13.00	49.22	Vertical
110.4170	-65.14	-13.00	52.14	Vertical
250.4435	-71.35	-13.00	58.35	Vertical
1412.8826	-58.65	-13.00	45.65	Vertical
2497.8996	-57.68	-13.00	44.68	Vertical
7353.0541	-55.95	-13.00	42.95	Vertical
41.9801	-63.95	-13.00	50.95	Horizontal
67.5894	-68.39	-13.00	55.39	Horizontal
234.0982	-68.73	-13.00	55.73	Horizontal
1413.2827	-54.40	-13.00	41.40	Horizontal
2119.8240	-57.54	-13.00	44.54	Horizontal
7447.4179	-56.51	-13.00	43.51	Horizontal

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 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 (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	VL	NT	2.60	0.003667	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VN	NT	1.30	0.001834	±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	-4.10	-0.005775	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	1.00	0.001408	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-3.80	-0.005352	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VL	NT	-3.50	-0.004923	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VN	NT	-1.90	-0.002672	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VH	NT	-4.30	-0.006048	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VL	NT	-3.10	-0.004372	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VN	NT	-1.90	-0.002680	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VH	NT	0.00	0.000000	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VL	NT	2.50	0.003521	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VN	NT	2.90	0.004085	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VH	NT	-2.20	-0.003099	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VL	NT	-5.00	-0.007032	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VN	NT	0.90	0.001266	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VH	NT	1.00	0.001406	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VL	NT	-0.80	-0.001128	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VN	NT	2.00	0.002821	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VH	NT	0.40	0.000564	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VL	NT	7.60	0.010704	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VN	NT	-0.50	-0.000704	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VH	NT	5.60	0.007887	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VL	NT	3.30	0.004641	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VN	NT	-0.10	-0.000141	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VH	NT	4.00	0.005626	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict

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Band17	10MHz	QPSK	23780	50RB#0	NV	-20	3.50	0.004937	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	0	5.20	0.007334	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	10	-4.10	-0.005783	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	20	1.50	0.002116	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	30	2.30	0.003244	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	40	-2.70	-0.003808	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	50	-1.20	-0.001693	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-2.40	-0.003380	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-1.10	-0.001549	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-4.40	-0.006197	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	4.90	0.006901	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-4.30	-0.006056	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	3.20	0.004507	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-0.20	-0.000282	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-2.40	-0.003380	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-30	-1.60	-0.002250	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-20	3.40	0.004782	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	0	-4.10	-0.005767	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	10	-3.90	-0.005485	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	20	2.00	0.002813	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	30	3.60	0.005063	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	40	-0.80	-0.001125	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	50	2.90	0.004079	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-30	-2.80	-0.003949	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-20	-2.70	-0.003808	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	0	1.70	0.002398	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	10	2.90	0.004090	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	20	-0.30	-0.000423	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	30	-0.80	-0.001128	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	40	-3.00	-0.004231	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	50	1.80	0.002539	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-30	0.50	0.000704	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-20	-2.70	-0.003803	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	0	-4.20	-0.005915	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	10	3.70	0.005211	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	20	4.10	0.005775	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	30	0.80	0.001127	±2.5	PASS

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Band17	10MHz	64QAM	23790	50RB#0	NV	40	-2.20	-0.003099	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	50	-3.10	-0.004366	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-30	-3.20	-0.004501	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-20	-3.00	-0.004219	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	0	-4.40	-0.006188	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	10	-0.70	-0.000985	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	20	1.20	0.001688	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	30	-4.50	-0.006329	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	40	-6.70	-0.009423	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	50	-4.10	-0.005767	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-30	-0.30	-0.000423	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-20	1.80	0.002539	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	0	0.90	0.001269	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	10	-0.20	-0.000282	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	20	-3.00	-0.004231	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	30	2.60	0.003667	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	40	-2.30	-0.003244	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	50	-1.40	-0.001975	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-30	2.80	0.003944	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-20	-2.30	-0.003239	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	0	-0.30	-0.000423	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	10	-4.00	-0.005634	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	20	1.80	0.002535	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	30	4.40	0.006197	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	40	-2.60	-0.003662	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	50	-3.40	-0.004789	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-30	-0.40	-0.000563	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-20	0.70	0.000985	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	0	1.20	0.001688	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	10	1.40	0.001969	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	20	-0.90	-0.001266	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	30	-2.40	-0.003376	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	40	0.50	0.000703	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	50	-1.30	-0.001828	±2.5	PASS

The End

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