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#12	24.85	19.90	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#0	24.58	19.63	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	24.54	19.59	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#6	23.77	18.82	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#0	23.75	18.80	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#13	23.68	18.73	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	23.71	18.76	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	24.61	19.66	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	24.56	19.61	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	24.85	19.90	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#0	23.76	18.81	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#13	23.69	18.74	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#6	23.76	18.81	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	23.73	18.78	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	24.49	19.54	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	24.78	19.83	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	24.55	19.60	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#6	23.73	18.78	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#0	23.67	18.72	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#13	23.56	18.61	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	23.65	18.70	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	22.66	17.71	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	22.68	17.73	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	22.91	17.96	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#13	21.57	16.62	34.77	PASS

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Band17	5MHz	64QAM	23755	12RB#6	21.67	16.72	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#0	21.66	16.71	34.77	PASS
Band17	5MHz	64QAM	23755	25RB#0	21.64	16.69	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	22.54	17.59	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	22.90	17.95	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	22.62	17.67	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#13	21.63	16.68	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#6	21.71	16.76	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#0	21.70	16.75	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	21.68	16.73	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	22.59	17.64	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	22.52	17.57	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	22.89	17.94	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#6	21.65	16.70	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#13	21.52	16.57	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#0	21.63	16.68	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	21.60	16.65	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	23.82	18.87	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	23.76	18.81	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	24.11	19.16	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#13	22.66	17.71	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#6	22.76	17.81	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#0	22.72	17.77	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	22.69	17.74	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	23.78	18.83	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	24.04	19.09	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	23.74	18.79	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#0	22.75	17.80	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#13	22.69	17.74	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#6	22.75	17.80	34.77	PASS

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Band17	5MHz	16QAM	23790	25RB#0	22.72	17.77	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	24.04	19.09	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	23.71	18.76	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	23.72	18.77	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#0	22.66	17.71	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#6	22.71	17.76	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#13	22.59	17.64	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	22.65	17.70	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	24.68	19.73	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	24.60	19.65	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	24.78	19.83	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#0	23.83	18.88	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#25	23.75	18.80	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#12	23.79	18.84	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	23.79	18.84	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	24.60	19.65	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	24.72	19.77	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	24.79	19.84	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#0	23.84	18.89	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#12	23.77	18.82	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#25	23.73	18.78	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	23.82	18.87	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	24.69	19.74	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	24.74	19.79	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	24.61	19.66	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#25	23.71	18.76	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#0	23.86	18.91	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#12	23.75	18.80	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	23.78	18.83	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	22.69	17.74	34.77	PASS

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Band17	10MHz	64QAM	23780	1RB#0	22.79	17.84	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#25	21.66	16.71	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#0	21.77	16.82	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#12	21.72	16.77	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	21.74	16.79	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	22.85	17.90	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	22.73	17.78	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	22.75	17.80	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#12	21.72	16.77	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#0	21.77	16.82	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#25	21.68	16.73	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	21.75	16.80	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	22.78	17.83	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	22.82	17.87	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	22.61	17.66	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#0	21.81	16.86	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#12	21.71	16.76	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#25	21.68	16.73	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	21.73	16.78	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	24.00	19.05	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	23.86	18.91	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	23.84	18.89	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#0	22.81	17.86	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#25	22.73	17.78	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#12	22.75	17.80	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	22.79	17.84	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	23.89	18.94	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	23.97	19.02	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	23.82	18.87	34.77	PASS

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Band17	10MHz	16QAM	23790	25RB#25	22.72	17.77	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#0	22.80	17.85	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	22.80	17.85	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	23.88	18.93	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	23.91	18.96	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	23.80	18.85	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#0	22.82	17.87	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#12	22.74	17.79	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#25	22.69	17.74	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	22.75	17.80	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	5.25	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.22	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.22	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	6.32	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	6.32	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	6.35	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	5.91	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	5.94	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.00	13	PASS

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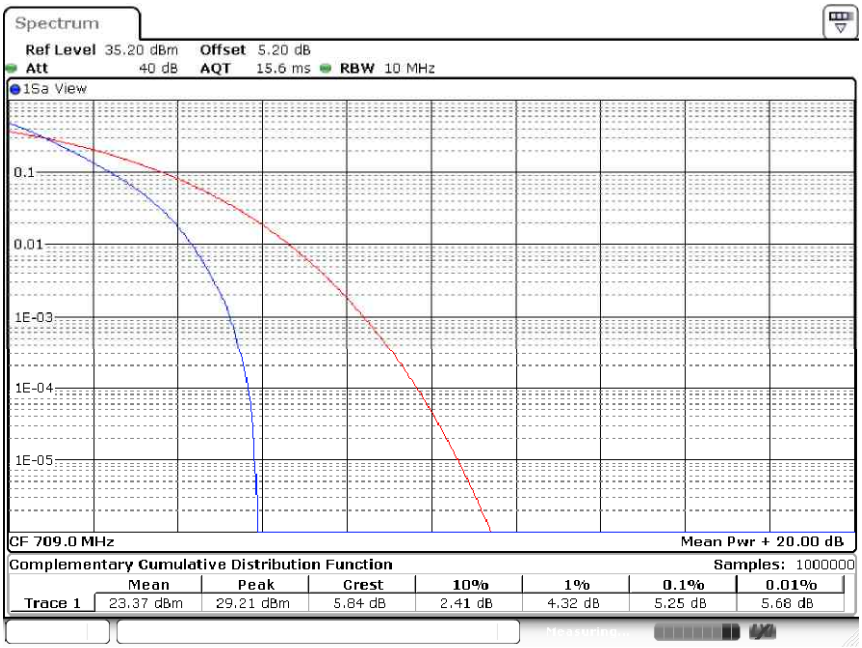
2.2. Test Plots

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



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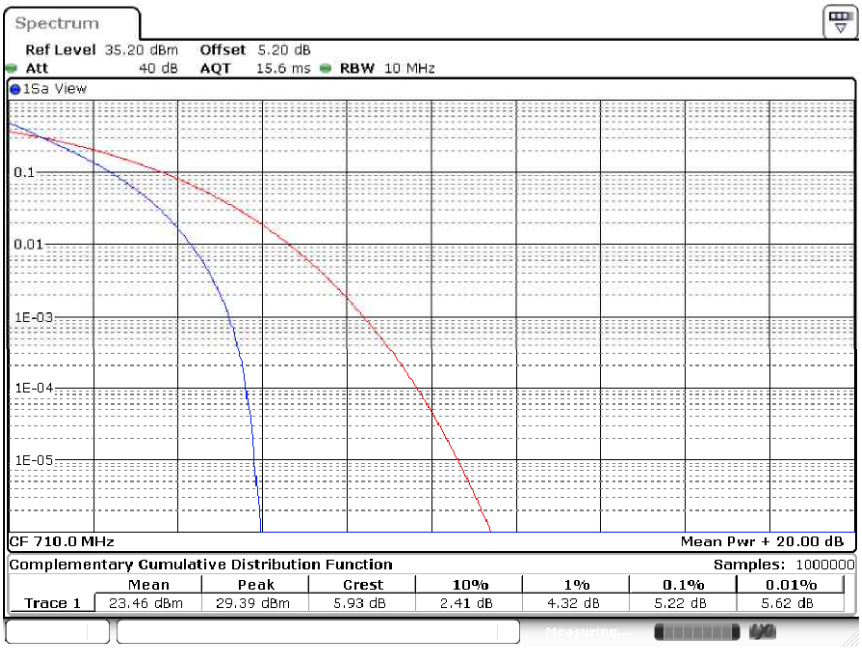
Band17-10MHz-QPSK-23790-50RB#0



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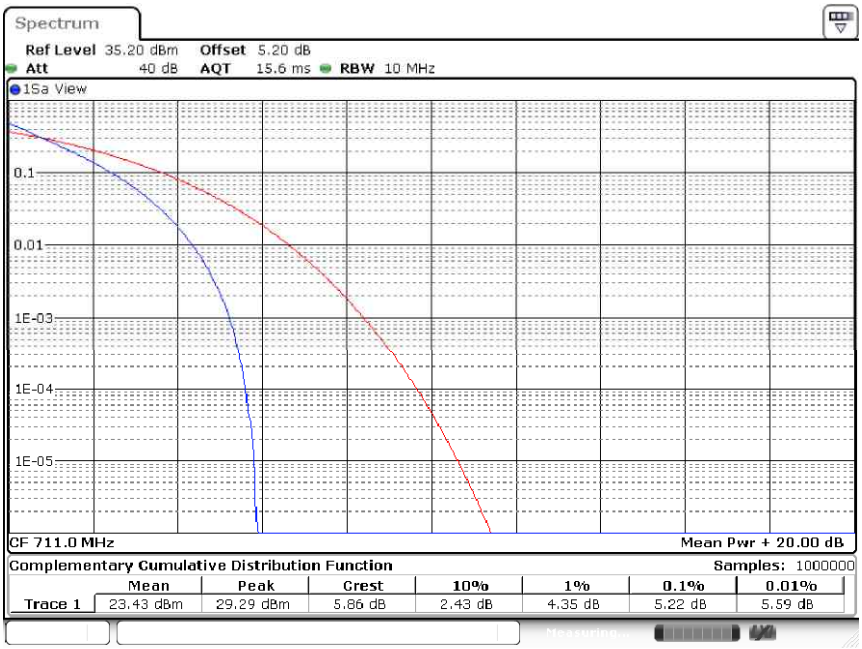
Band17-10MHz-QPSK-23800-50RB#0



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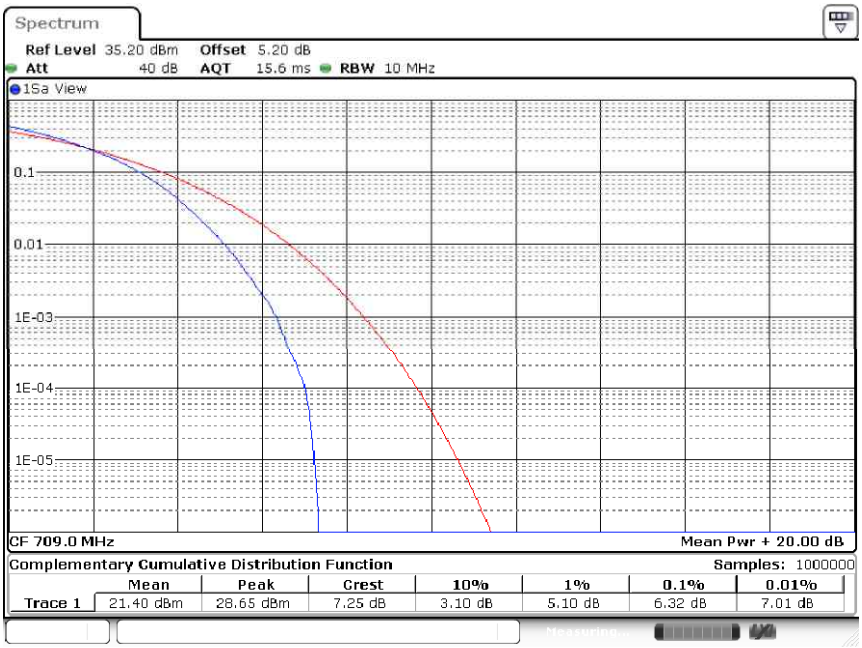
Band17-10MHz-64QAM-23780-50RB#0



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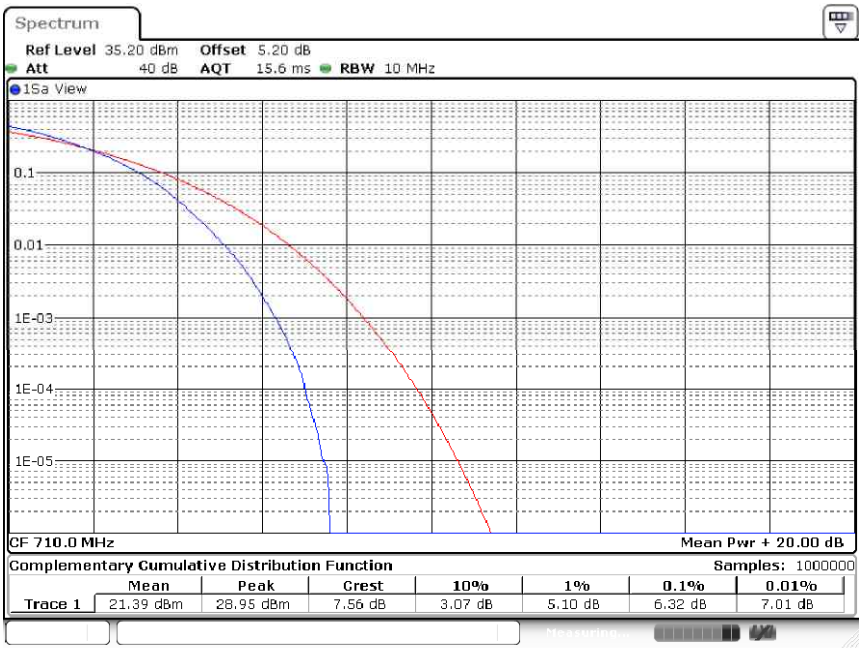
Band17-10MHz-64QAM-23790-50RB#0



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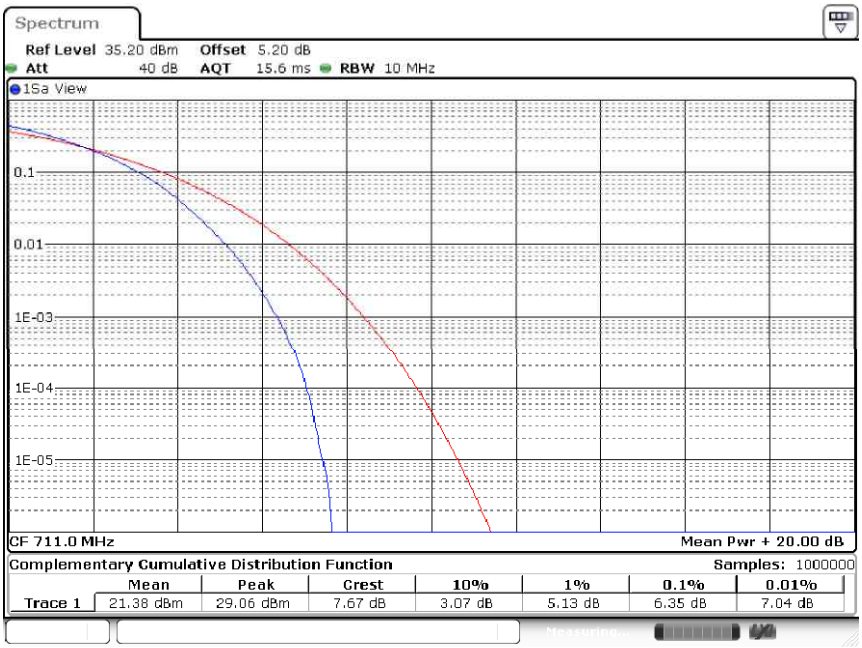
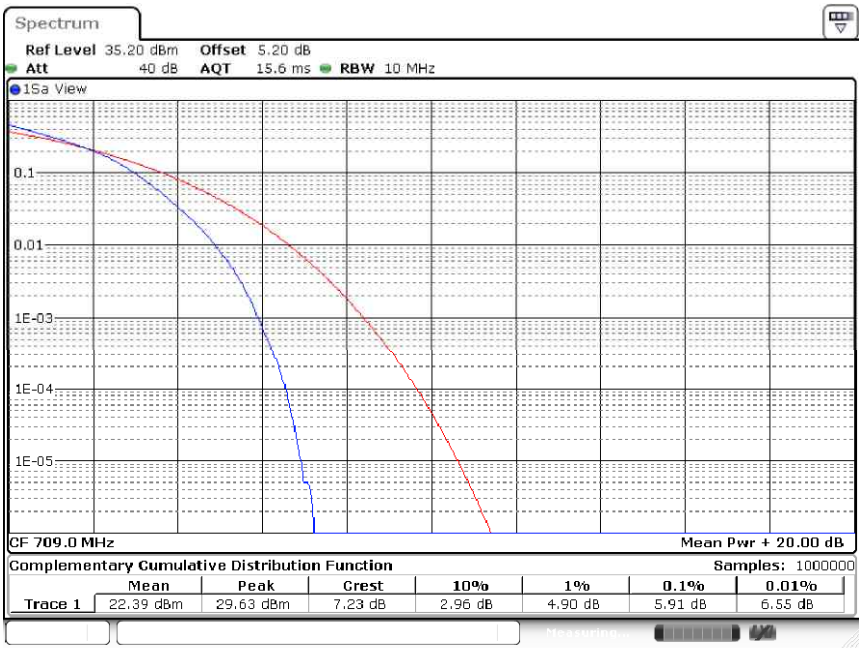
Band17-10MHz-64QAM-23800-50RB#0



Date: 24.JUN.2020 09:59:57

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



Date: 23.JUN.2020 13:31:07

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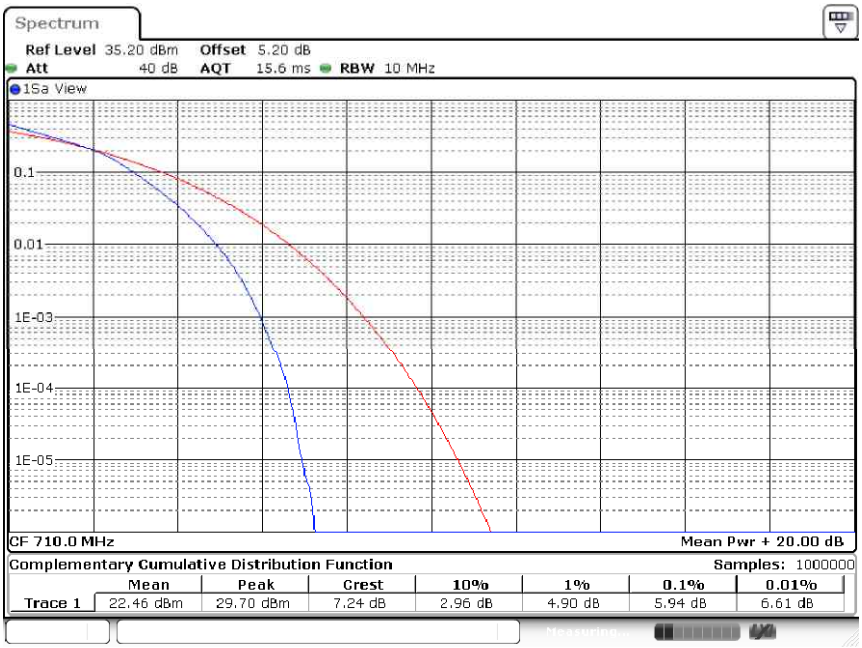
Band17-10MHz-16QAM-23790-50RB#0



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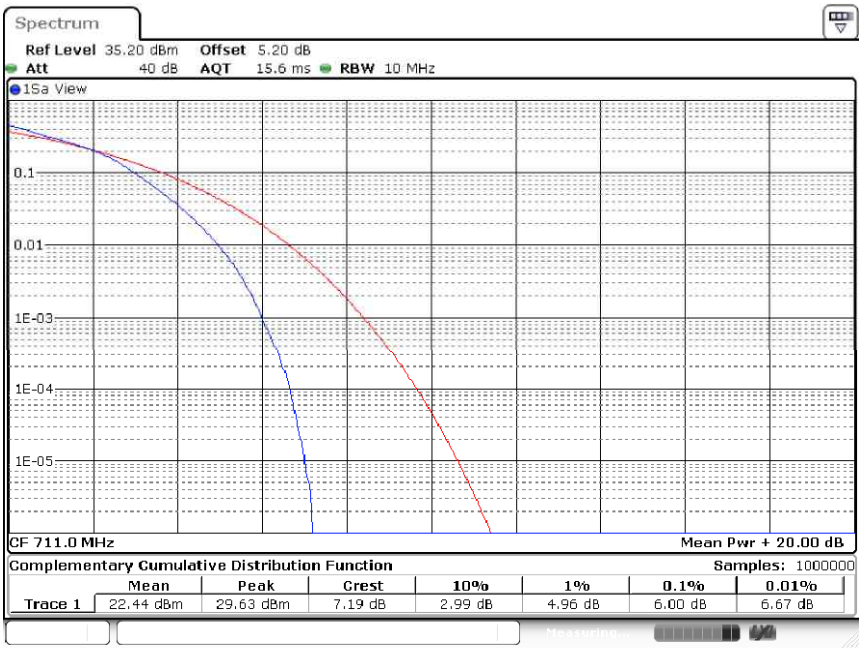
Band17-10MHz-16QAM-23800-50RB#0



Date: 23.JUN.2020 13:31:57

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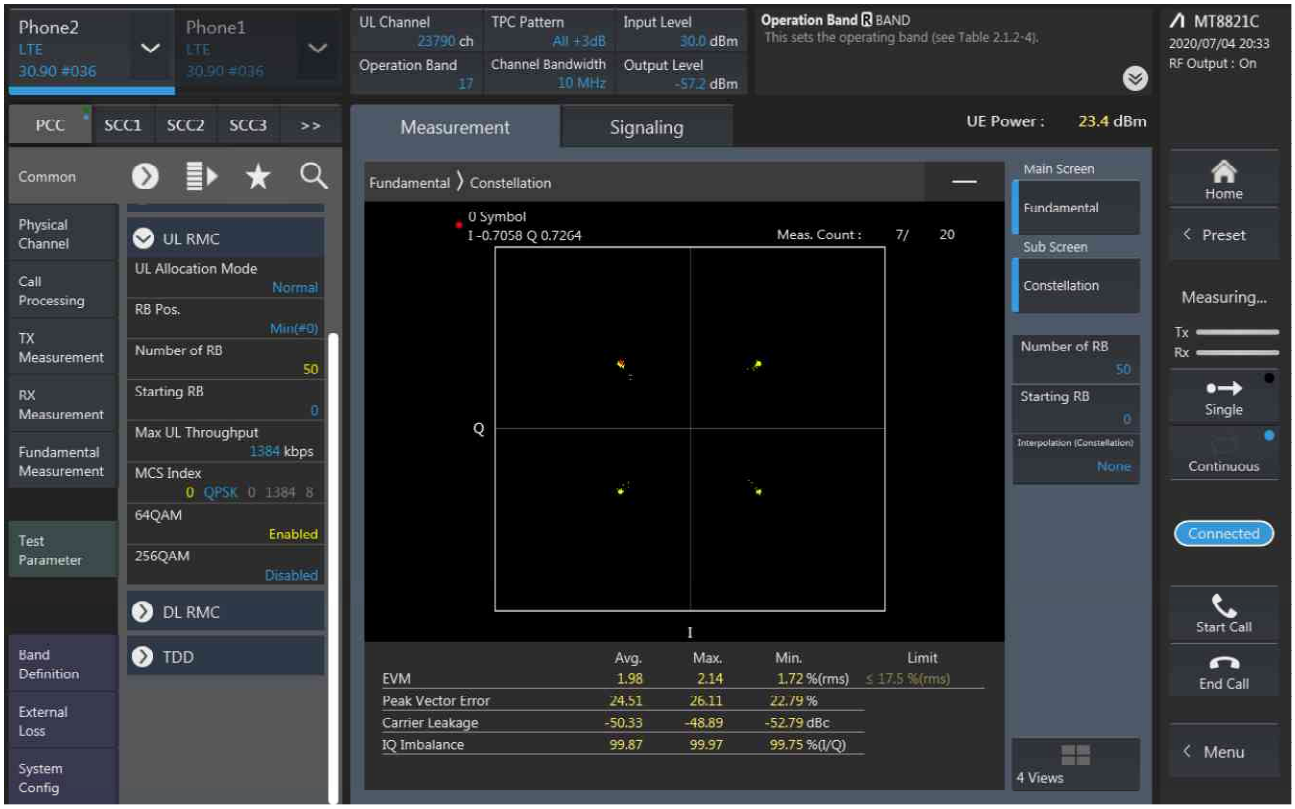
3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1.Test Channel = MCH



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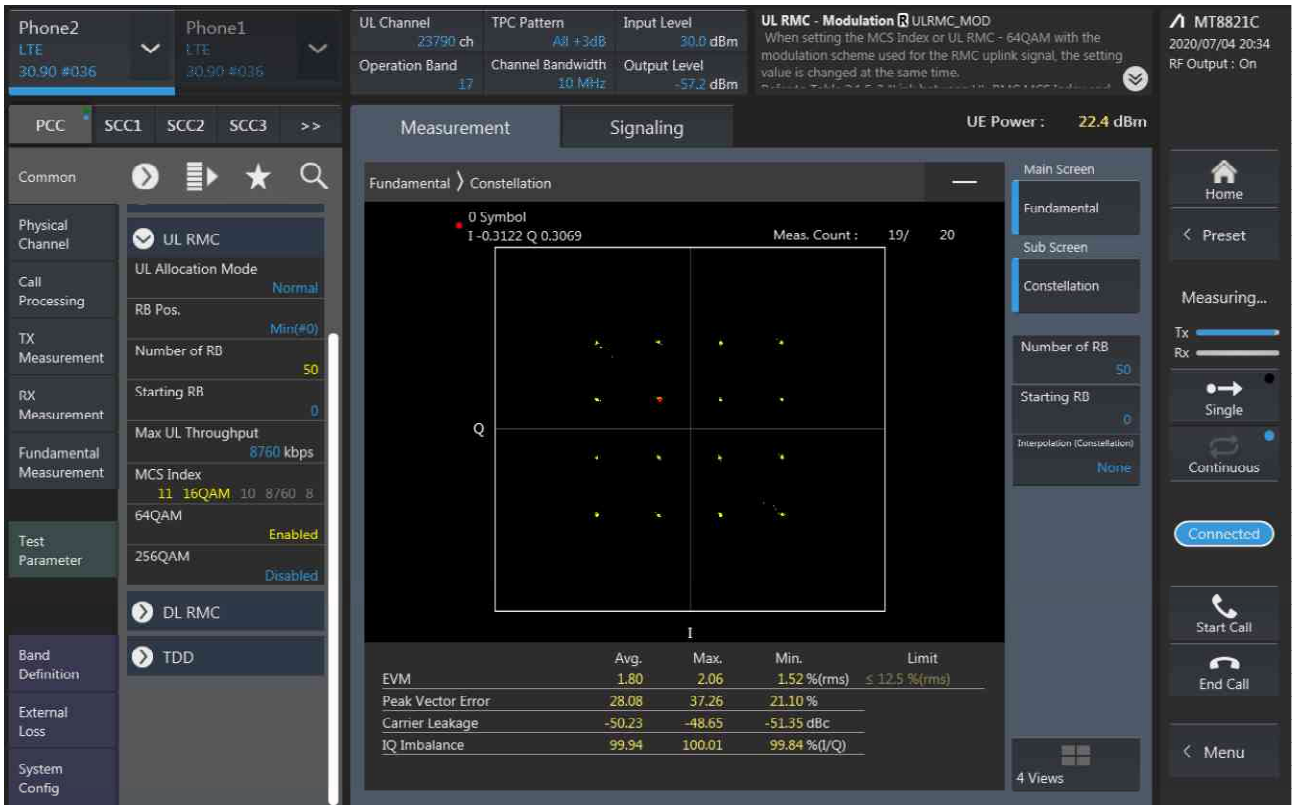
3.2. Test Mode = LTE /TM2 10MHz

3.2.1.Test Channel = MCH



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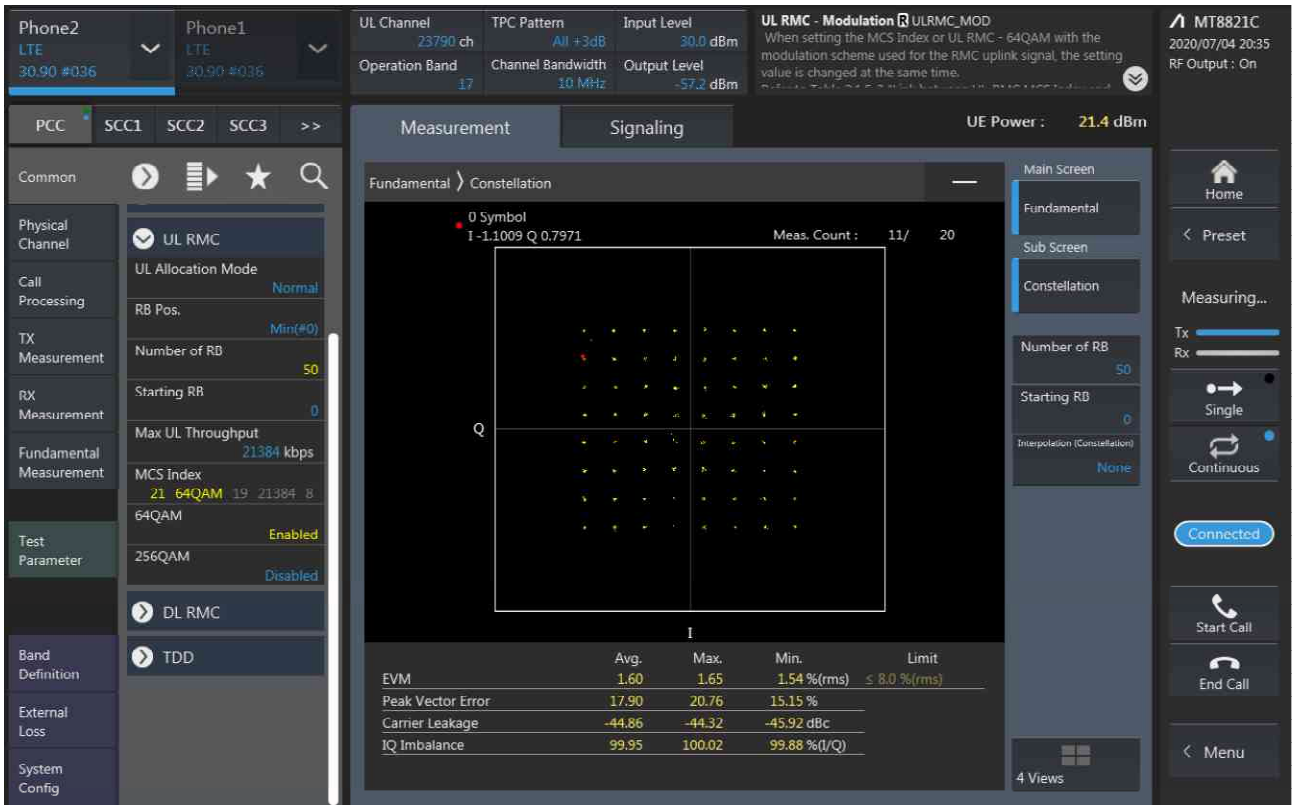
3.3. Test Mode = LTE /TM3 10MHz

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	4.476	5.030	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.486	5.070	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.486	5.070	PASS
Band17	5MHz	64QAM	23755	25RB#0	4.476	4.980	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.476	5.040	PASS
Band17	5MHz	64QAM	23825	25RB#0	4.476	5.140	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.496	5.050	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.496	5.080	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.496	5.090	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.951	9.880	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.971	9.920	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.951	9.920	PASS
Band17	10MHz	64QAM	23780	50RB#0	8.931	9.760	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.971	9.780	PASS

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Band17	10MHz	64QAM	23800	50RB#0	8.971	9.880	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.951	9.880	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.951	10.140	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.951	9.900	PASS

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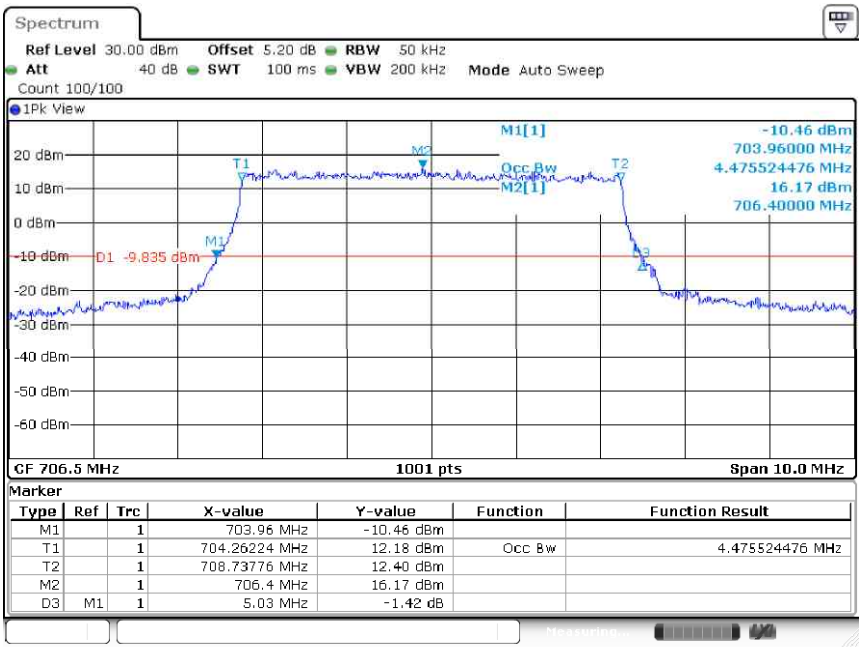
4.2. Test Plots

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



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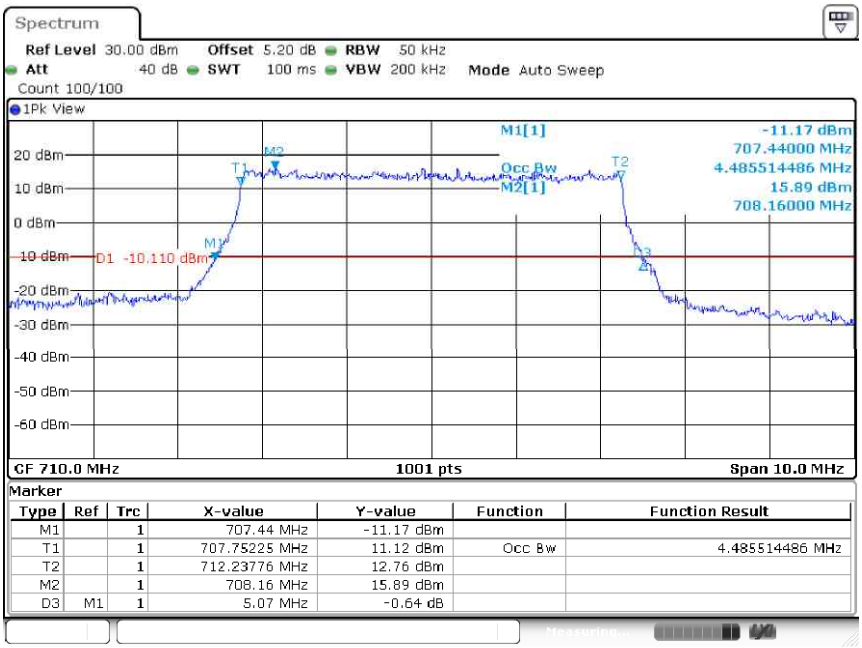
Band17-5MHz-QPSK-23790-25RB#0-4.486

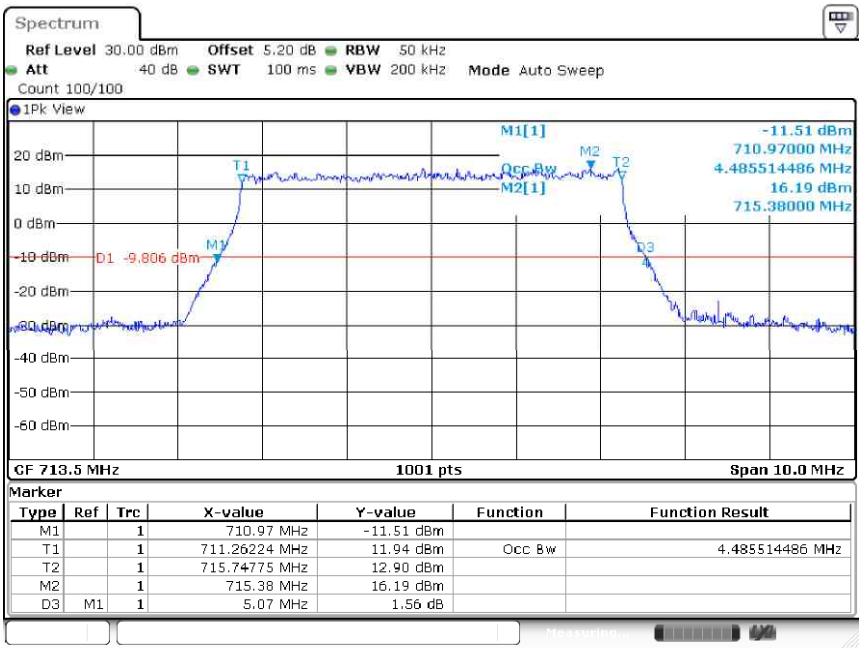


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	707.44 MHz	-11.17 dBm		
T1		1	707.75225 MHz	11.12 dBm	Occ Bw	4.485514486 MHz
T2		1	712.23776 MHz	12.76 dBm		
M2		1	708.16 MHz	15.89 dBm		
D3	M1	1	5.07 MHz	-0.64 dB		

Date: 23.JUN.2020 13:12:37

Band17-5MHz-QPSK-23825-25RB#0-4.486



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	710.97 MHz	-11.51 dBm		
T1		1	711.26224 MHz	11.94 dBm	Occ Bw	4.485514486 MHz
T2		1	715.74775 MHz	12.90 dBm		
M2		1	715.38 MHz	16.19 dBm		
D3	M1	1	5.07 MHz	1.56 dB		

Date: 23.JUN.2020 13:13:17

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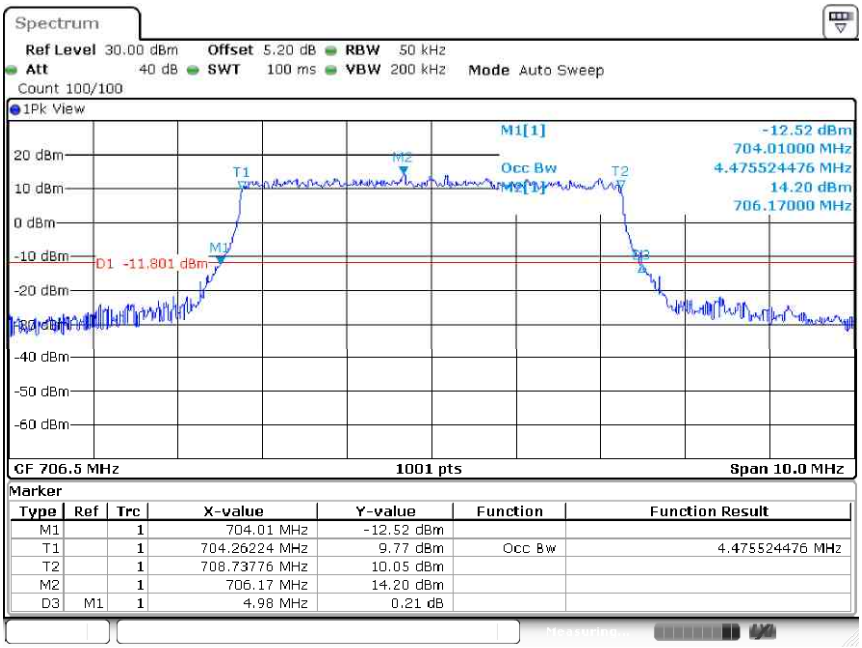
Band17-5MHz-64QAM-23755-25RB#0-4.476

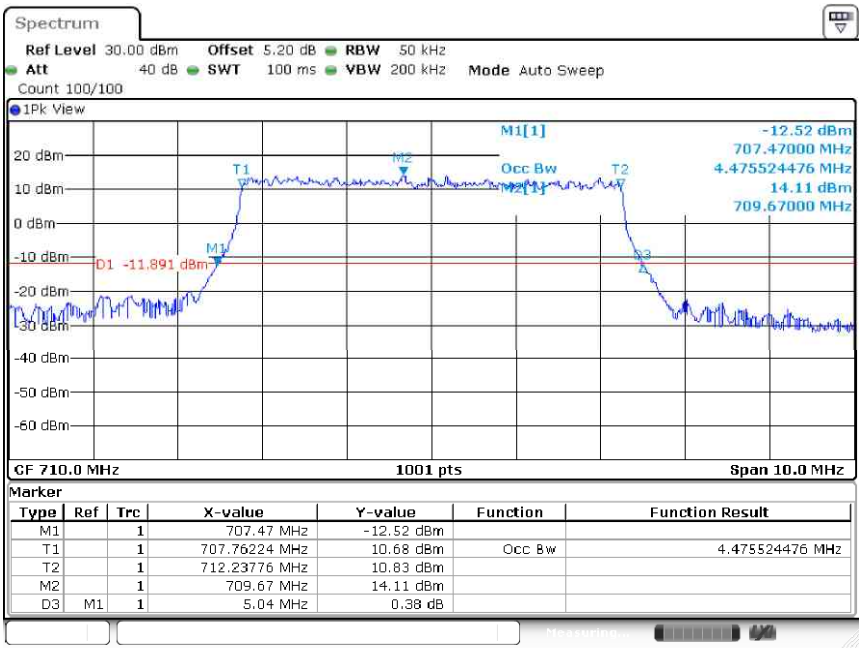


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	704.01 MHz	-12.52 dBm		
T1		1	704.26224 MHz	9.77 dBm	Occ Bw	4.475524476 MHz
T2		1	708.73776 MHz	10.05 dBm		
M2		1	706.17 MHz	14.20 dBm		
D3	M1	1	4.98 MHz	0.21 dB		

Date: 24.JUN.2020 09:50:23

Band17-5MHz-64QAM-23790-25RB#0-4.476



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	707.47 MHz	-12.52 dBm		
T1		1	707.76224 MHz	10.68 dBm	Occ Bw	4.475524476 MHz
T2		1	712.23776 MHz	10.83 dBm		
M2		1	709.67 MHz	14.11 dBm		
D3	M1	1	5.04 MHz	0.38 dB		

Date: 24.JUN.2020 09:50:43

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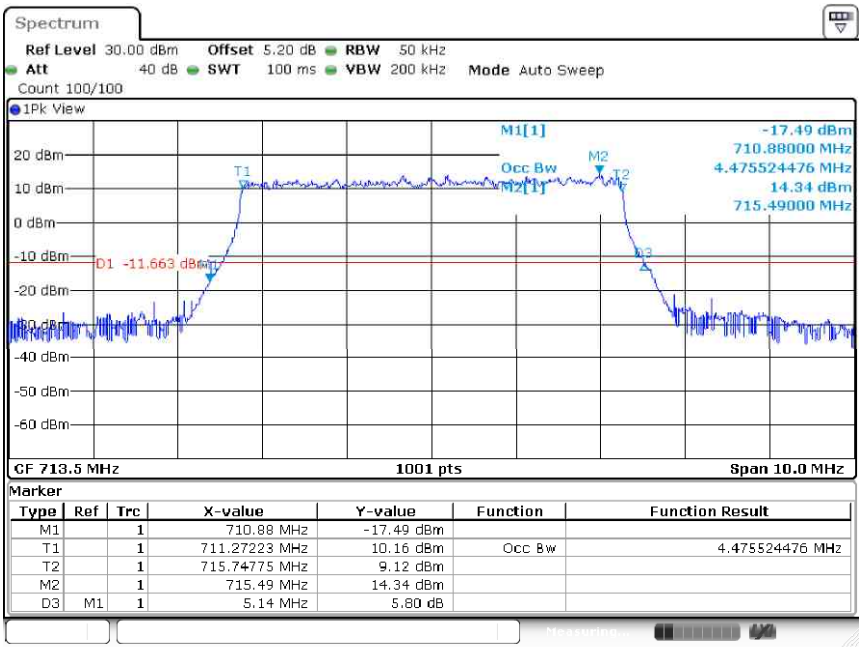
Band17-5MHz-64QAM-23825-25RB#0-4.476



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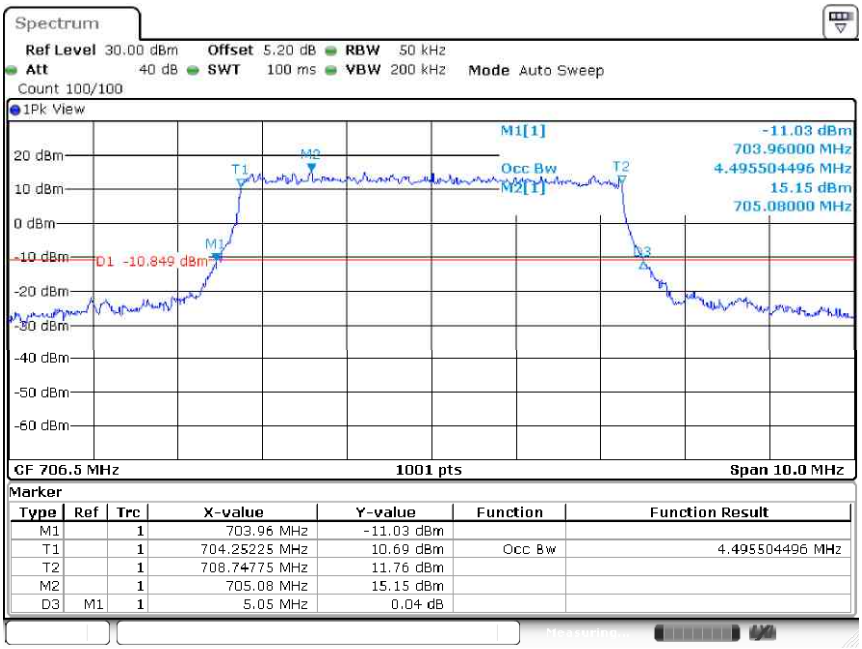
Band17-5MHz-16QAM-23755-25RB#0-4.496



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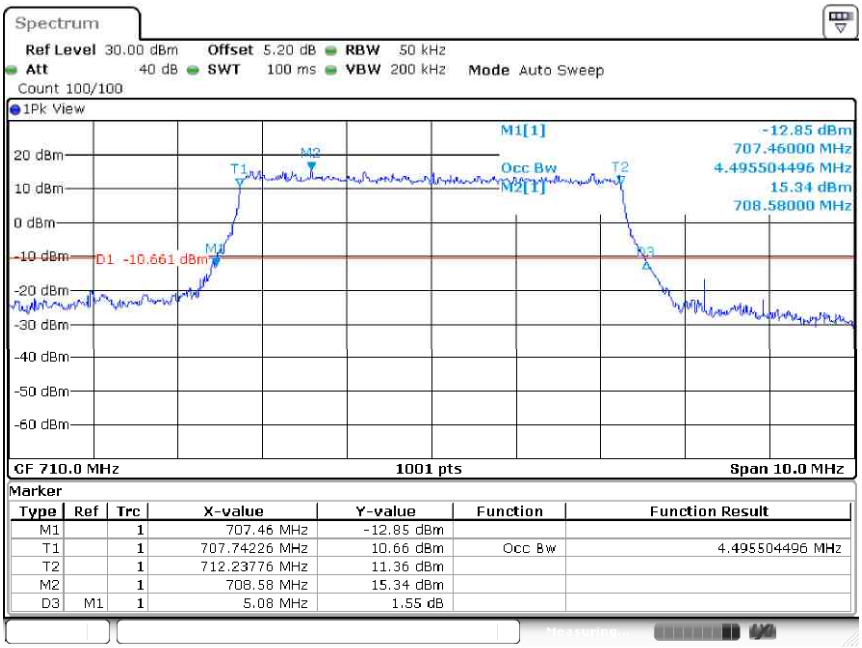
Band17-5MHz-16QAM-23790-25RB#0-4.496



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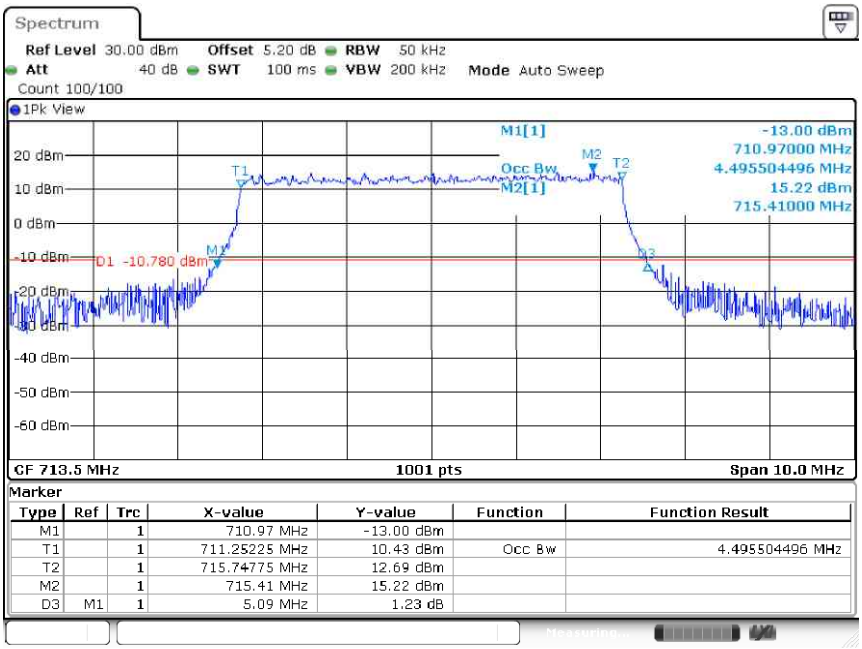
Band17-5MHz-16QAM-23825-25RB#0-4.496



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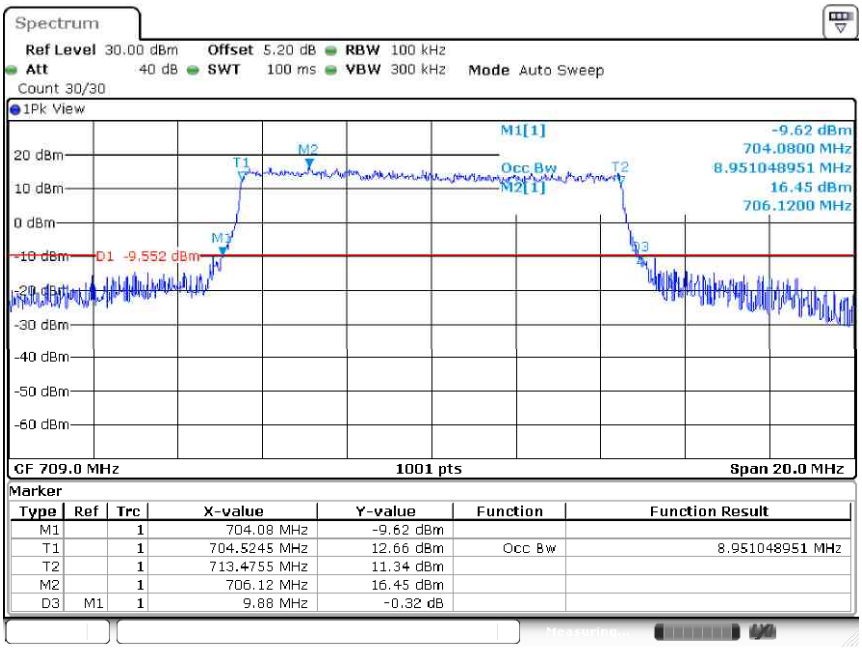
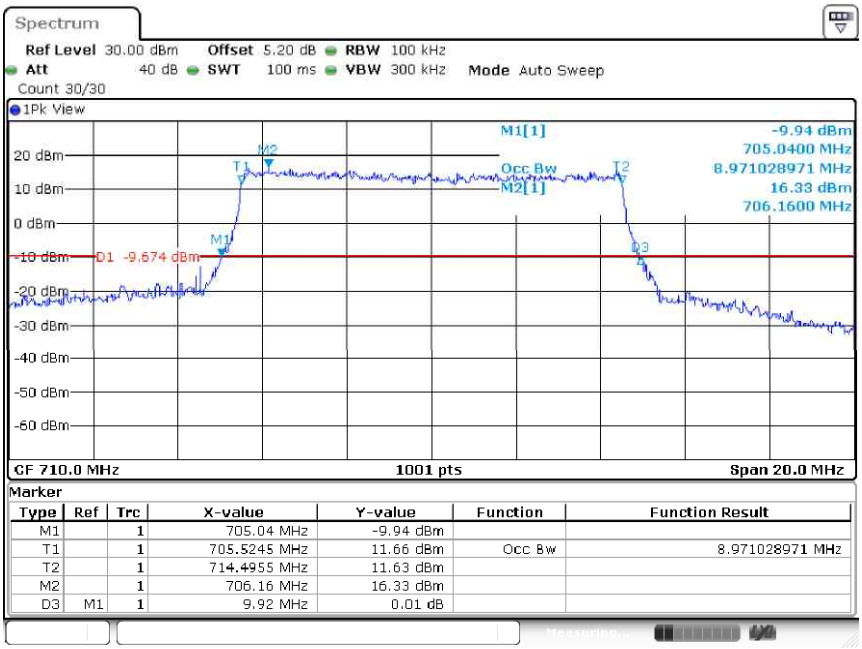
Band17-10MHz-QPSK-23780-50RB#0-8.951



Band17-10MHz-QPSK-23790-50RB#0-8.971



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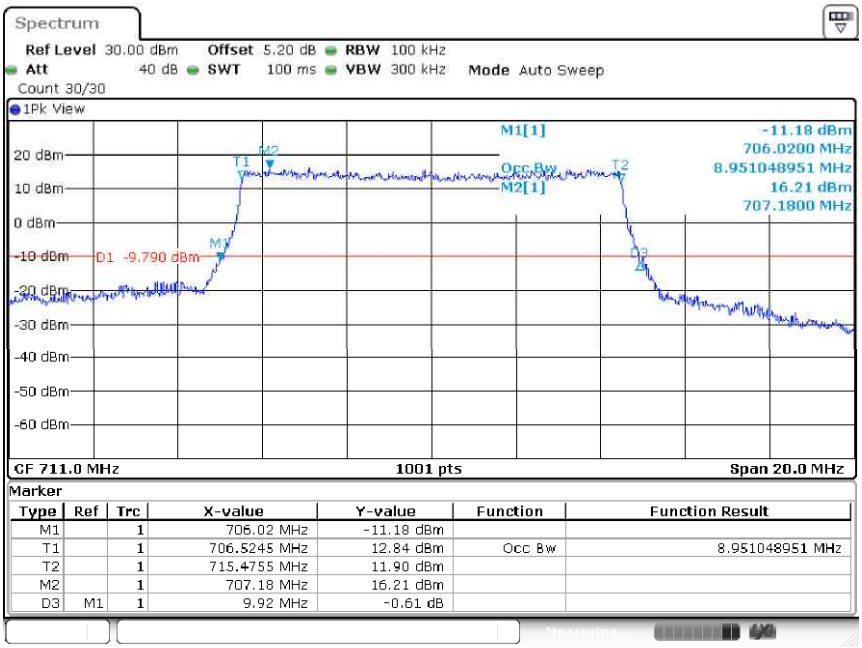
Band17-10MHz-QPSK-23800-50RB#0-8.951



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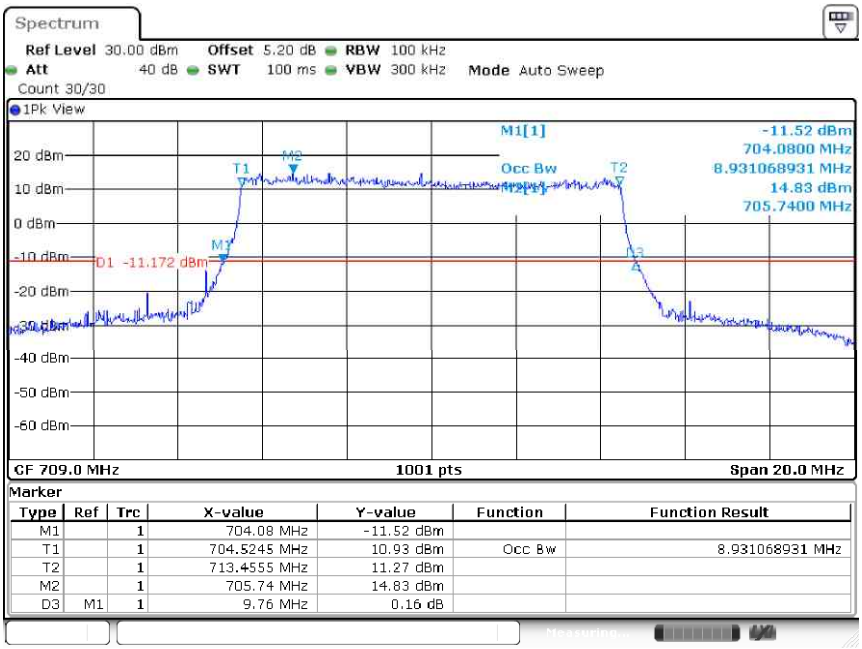
Band17-10MHz-64QAM-23780-50RB#0-8.931



Date: 24.JUN.2020 09:51:21

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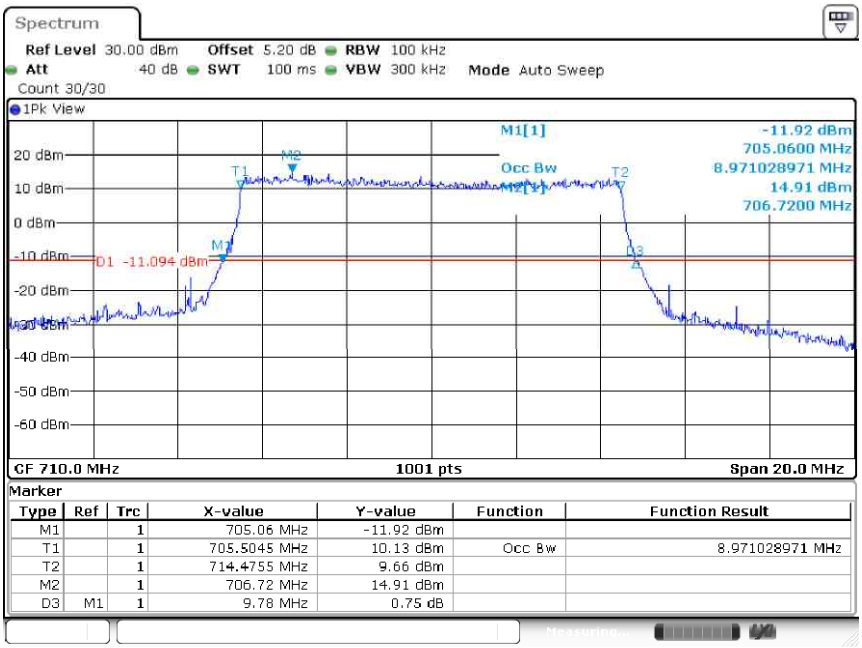
Band17-10MHz-64QAM-23790-50RB#0-8.971



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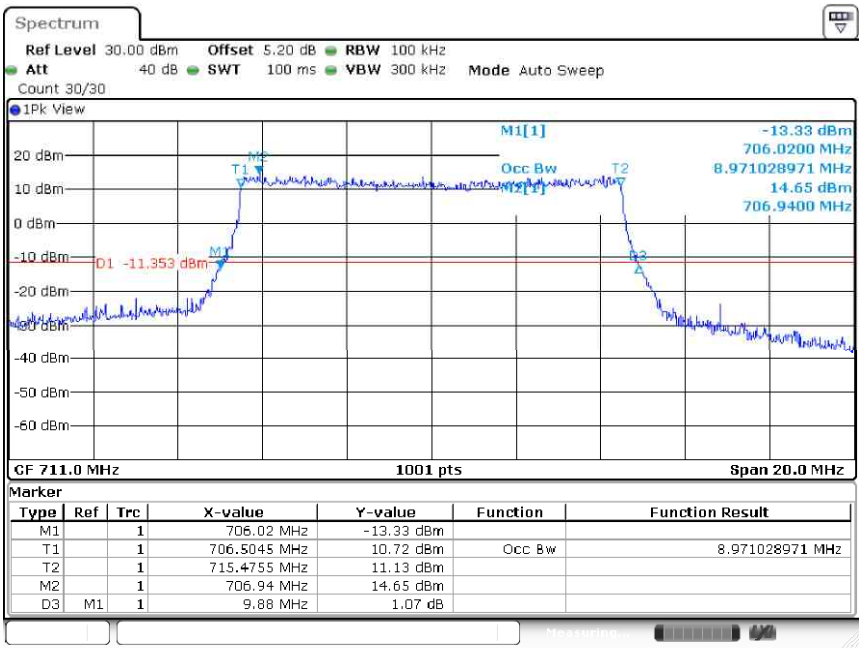
Band17-10MHz-64QAM-23800-50RB#0-8.971



Date: 24.JUN.2020 09:51:47

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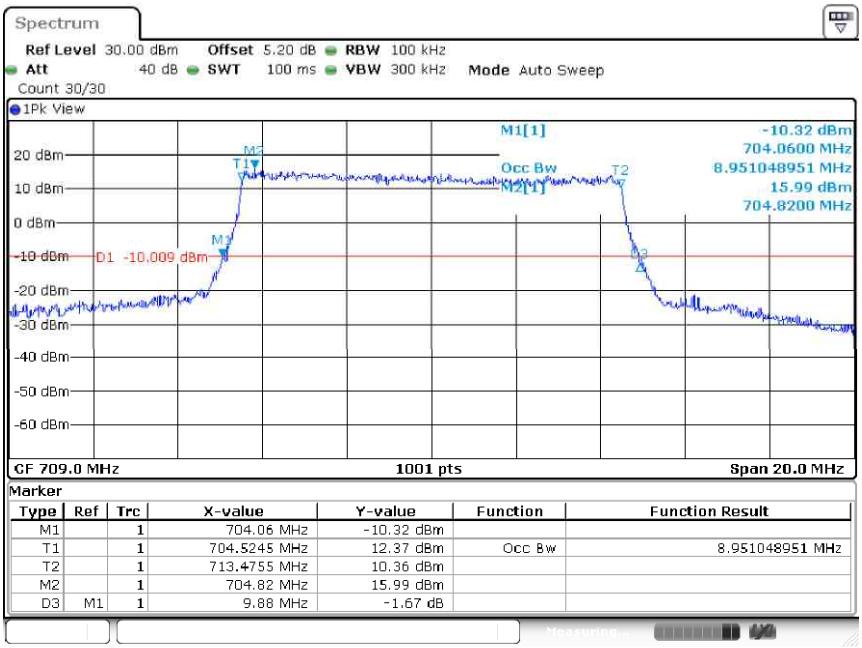
Band17-10MHz-16QAM-23780-50RB#0-8.951



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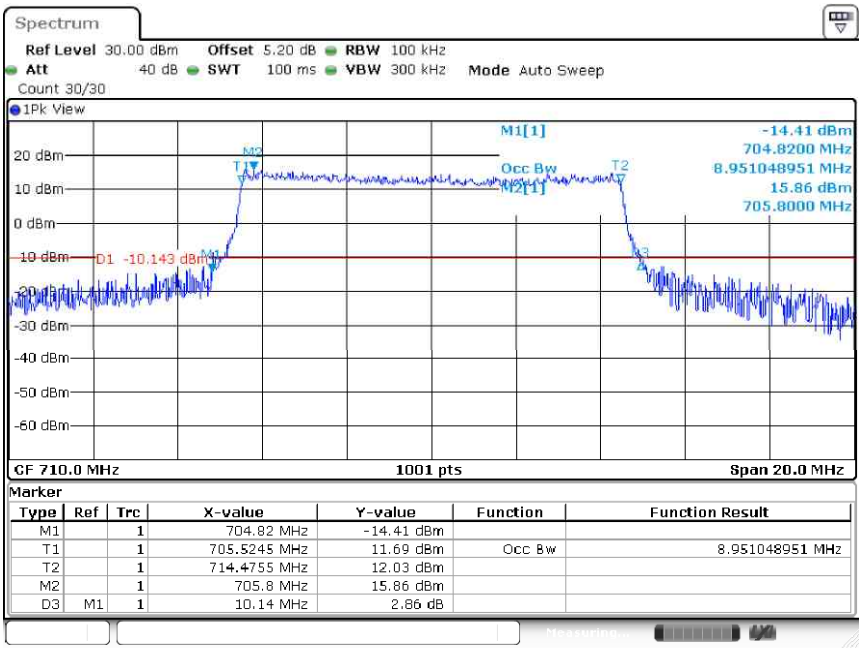
Band17-10MHz-16QAM-23790-50RB#0-8.951



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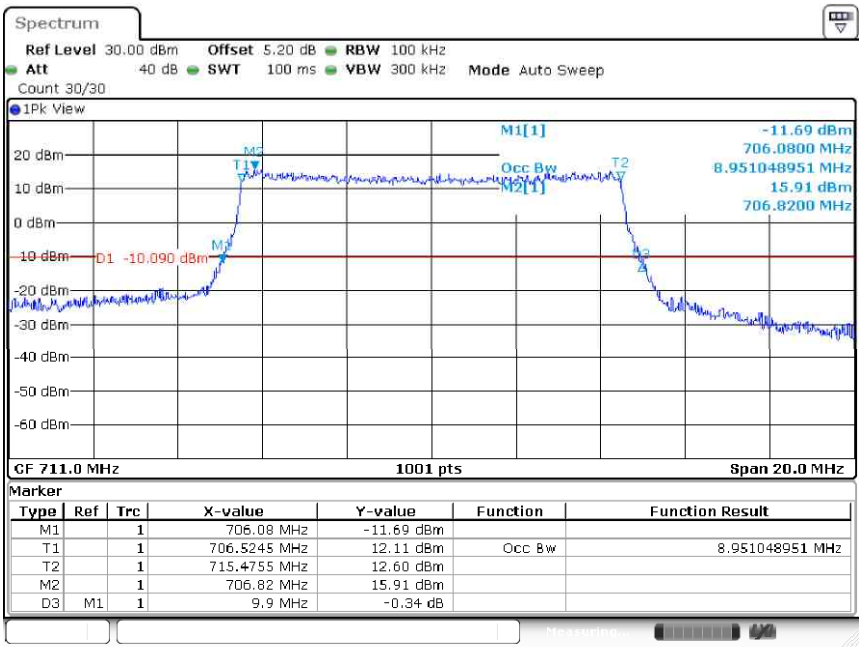
Band17-10MHz-16QAM-23800-50RB#0-8.951



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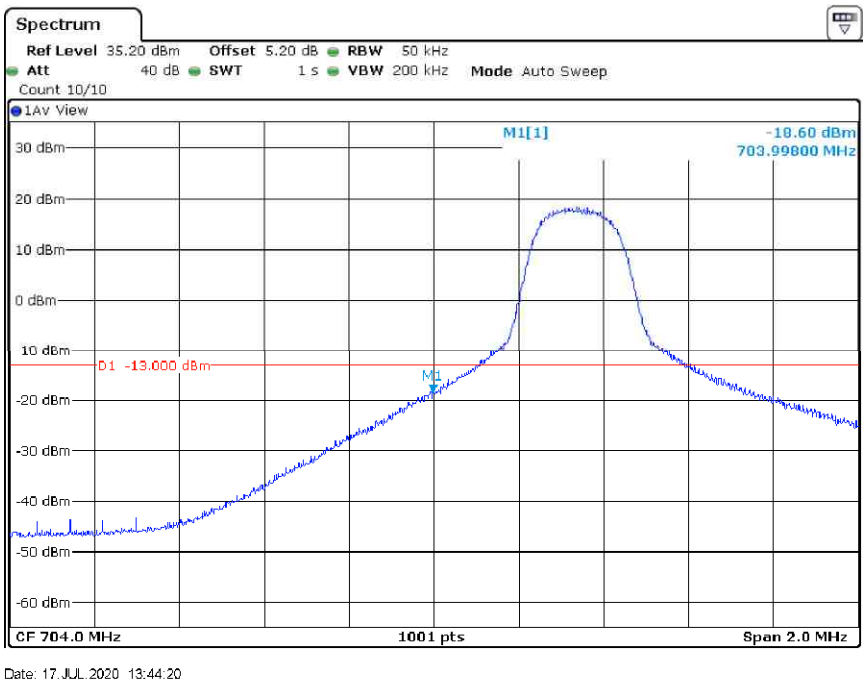
5. Band Edge Compliance

5.1. Test Plots

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



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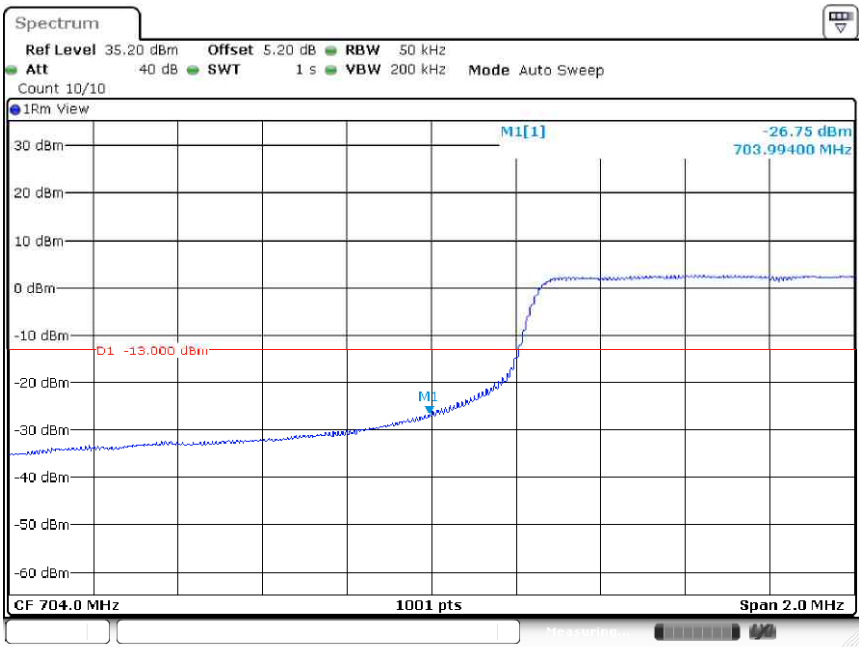
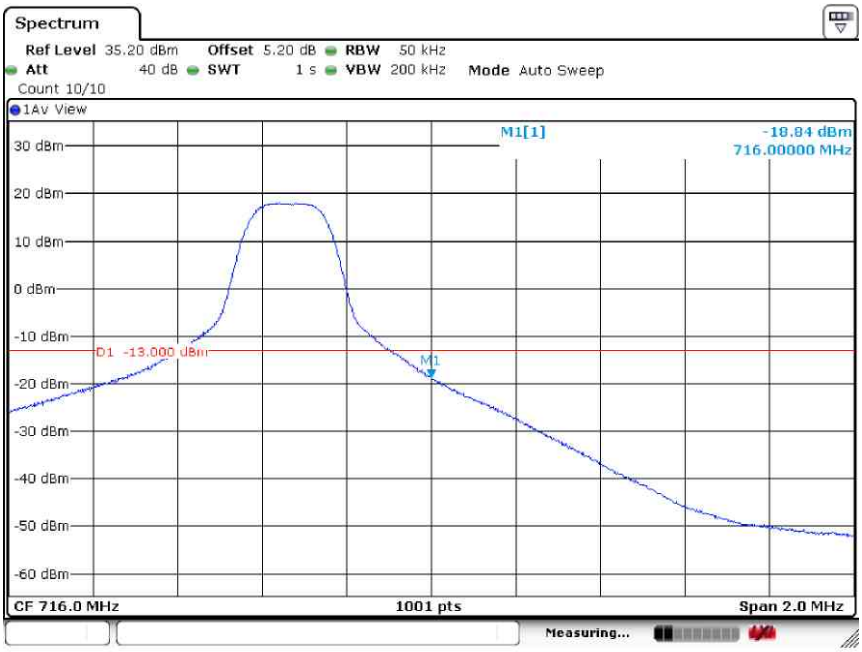
Band17-5MHz-QPSK-23755-25RB#0



Date: 27.JUN.2020 11:23:08

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



Date: 28.JUN.2020 10:23:37

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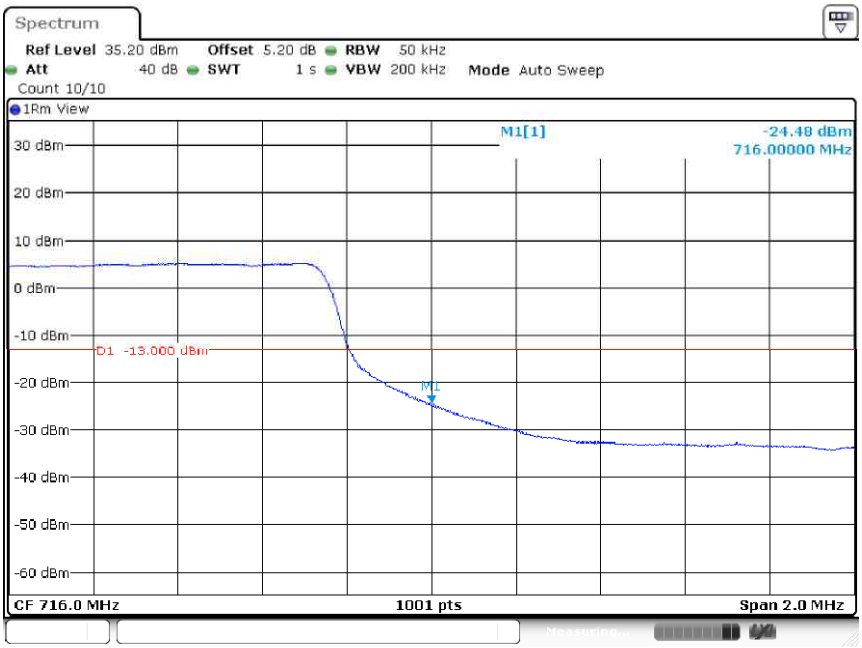
Band17-5MHz-QPSK-23825-25RB#0



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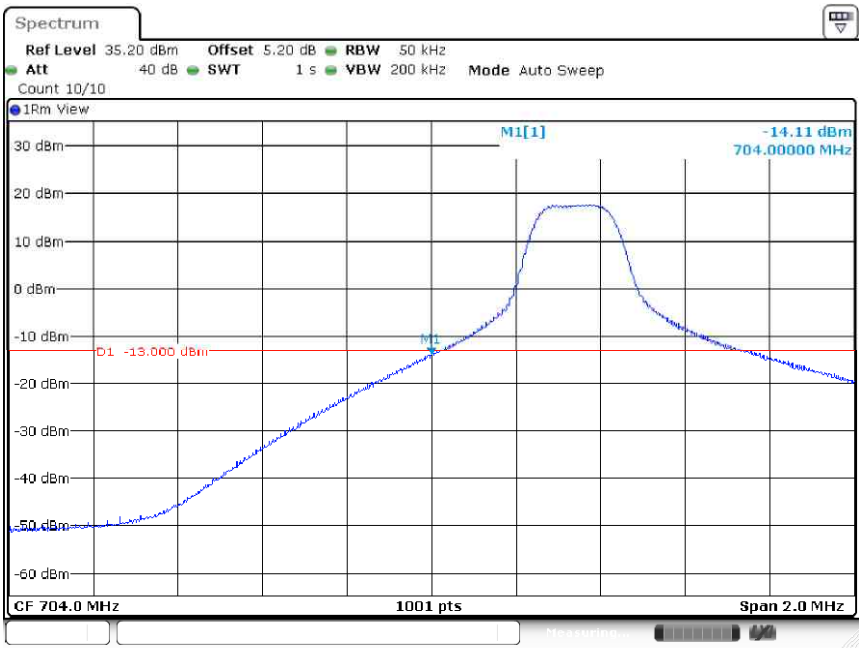

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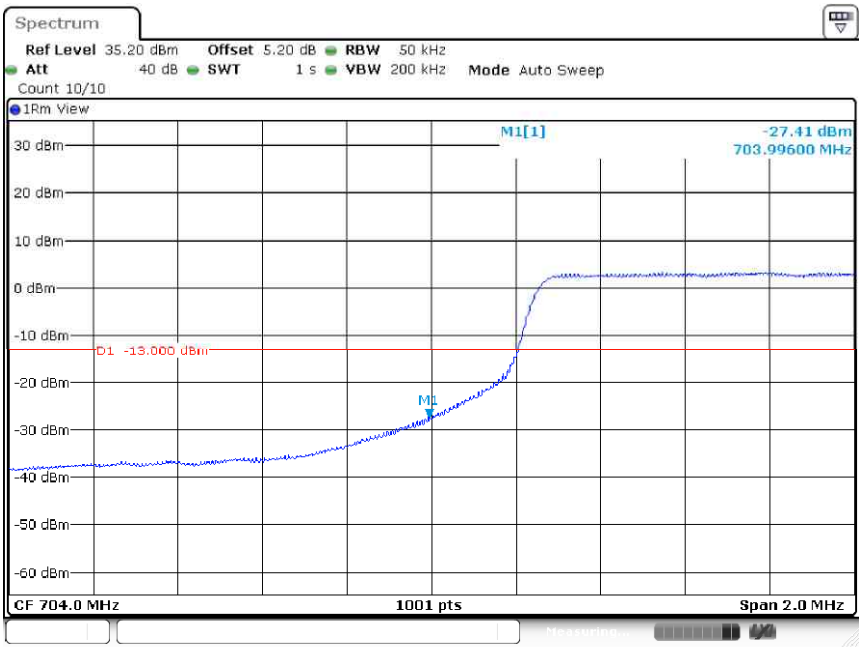

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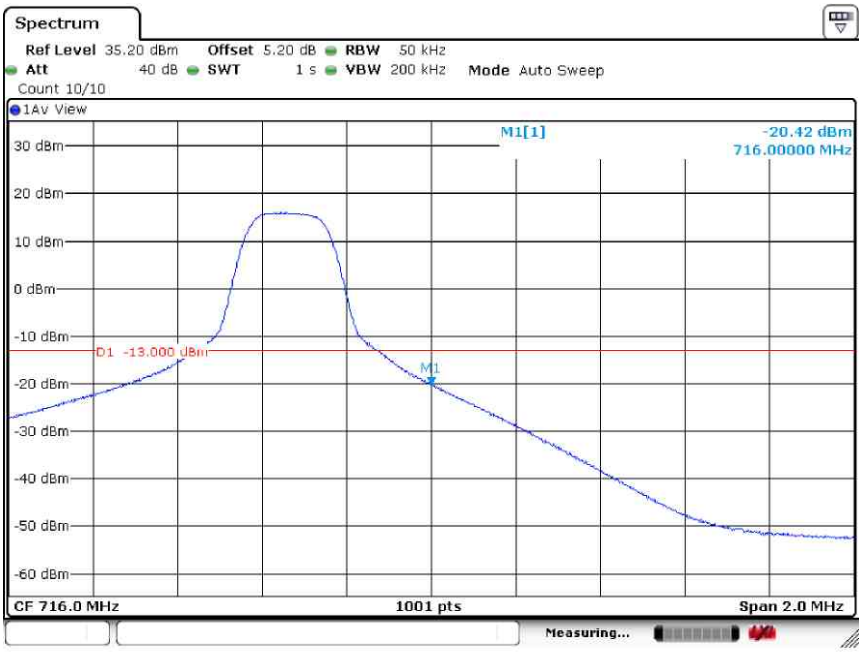

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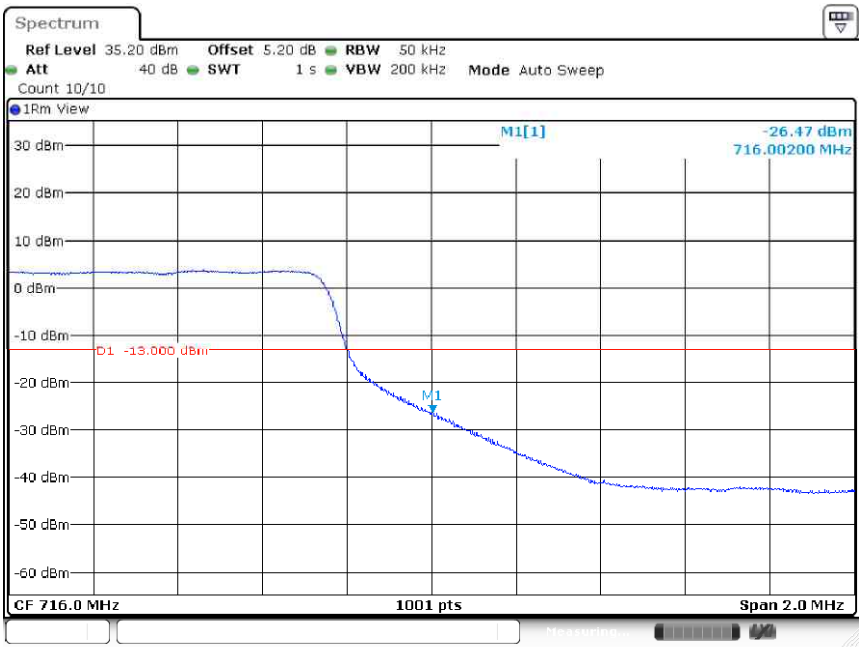

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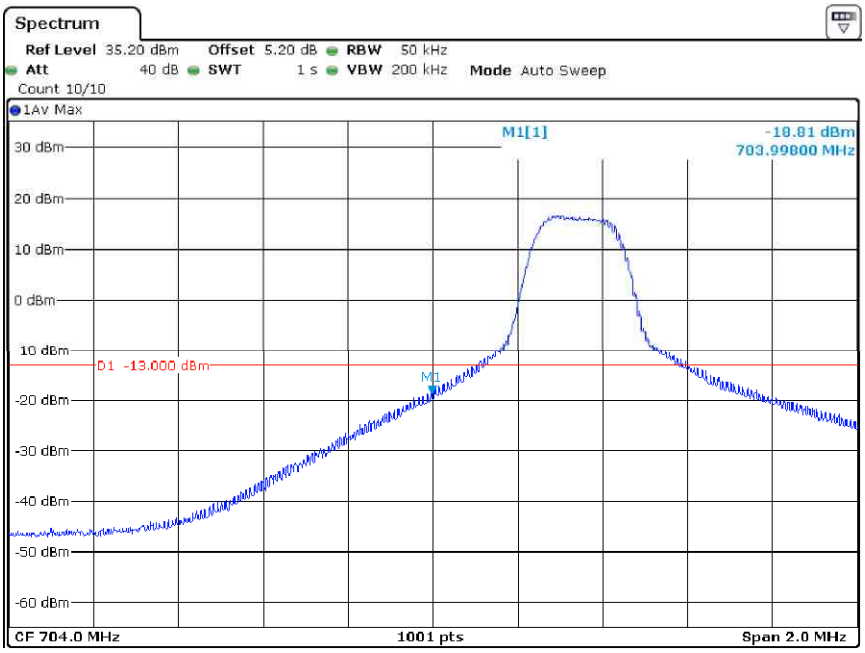

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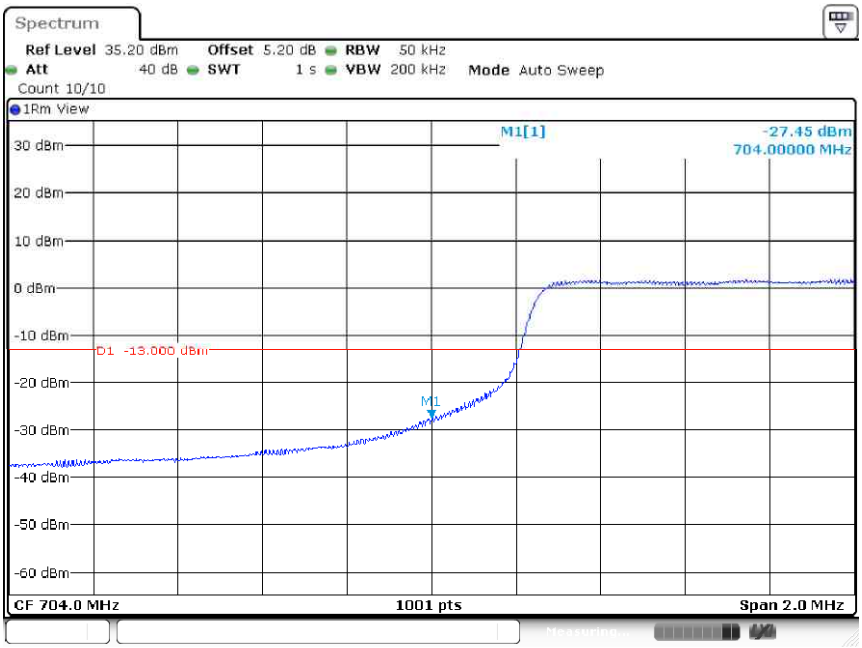
Band17-5MHz-16QAM-23755-25RB#0



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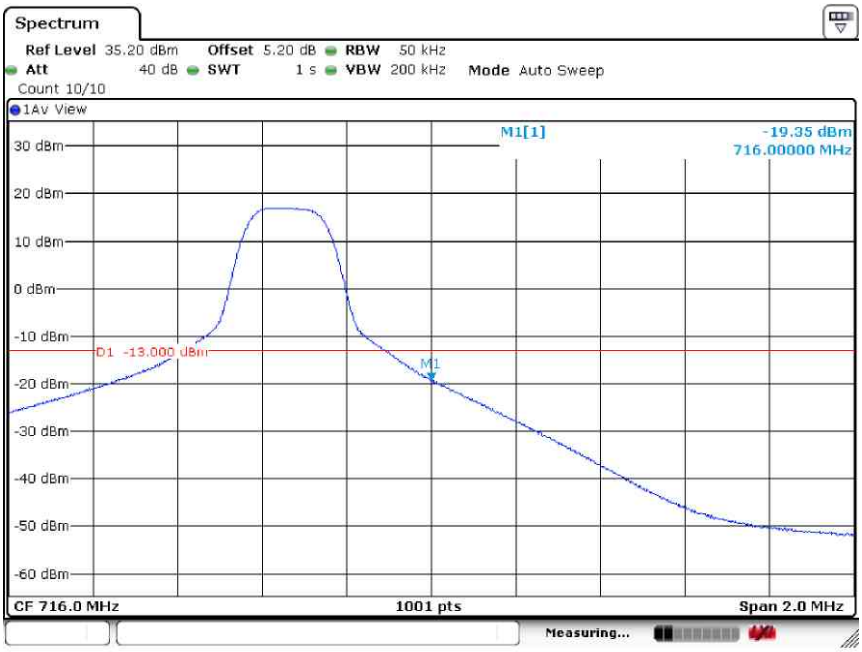
Band17-5MHz-16QAM-23825-1RB#24



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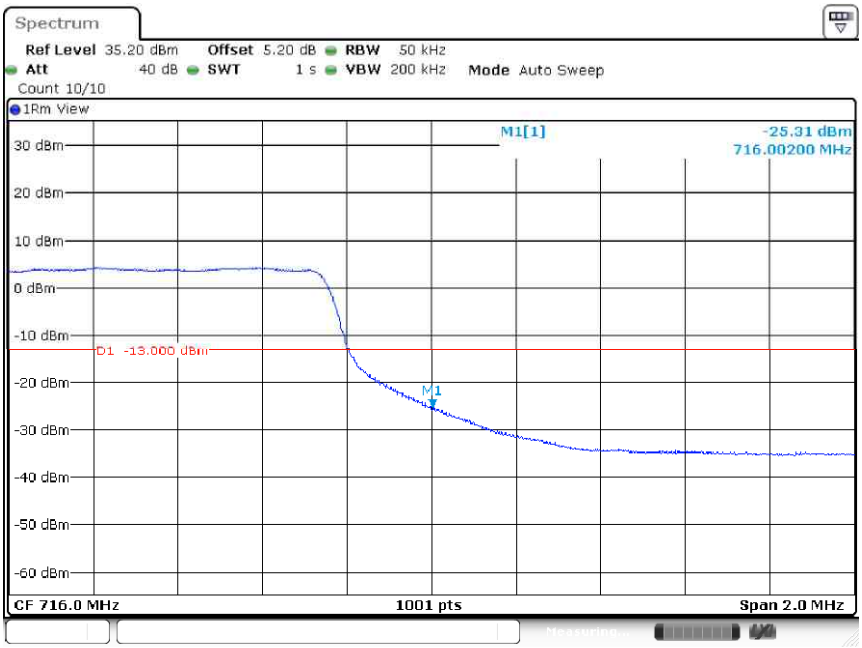
Band17-5MHz-16QAM-23825-25RB#0



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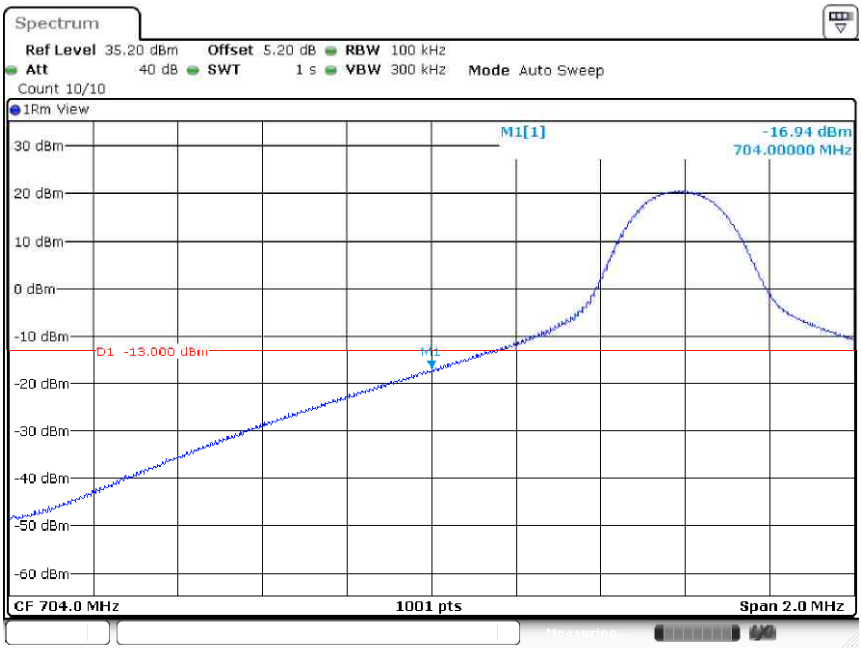
Band17-10MHz-QPSK-23780-1RB#0



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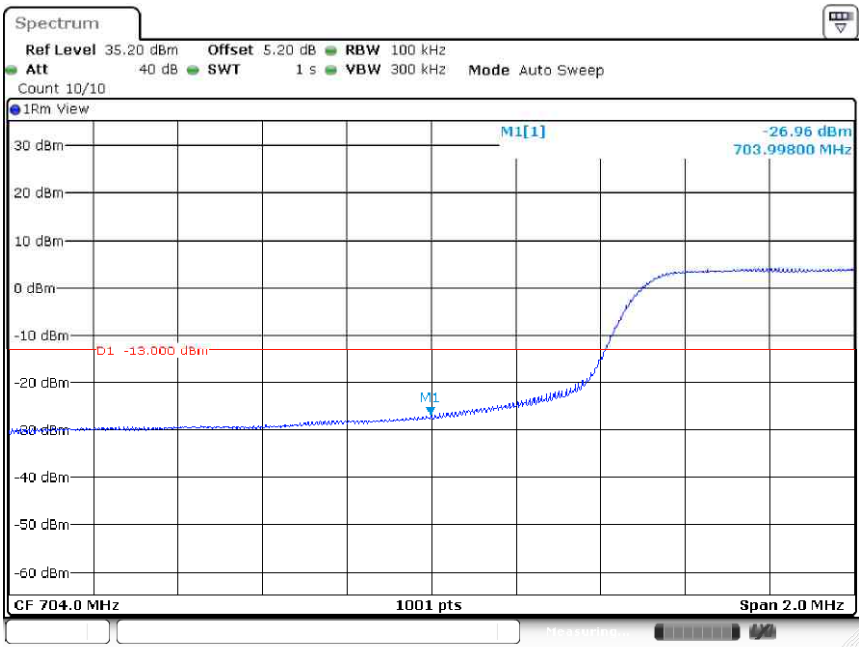
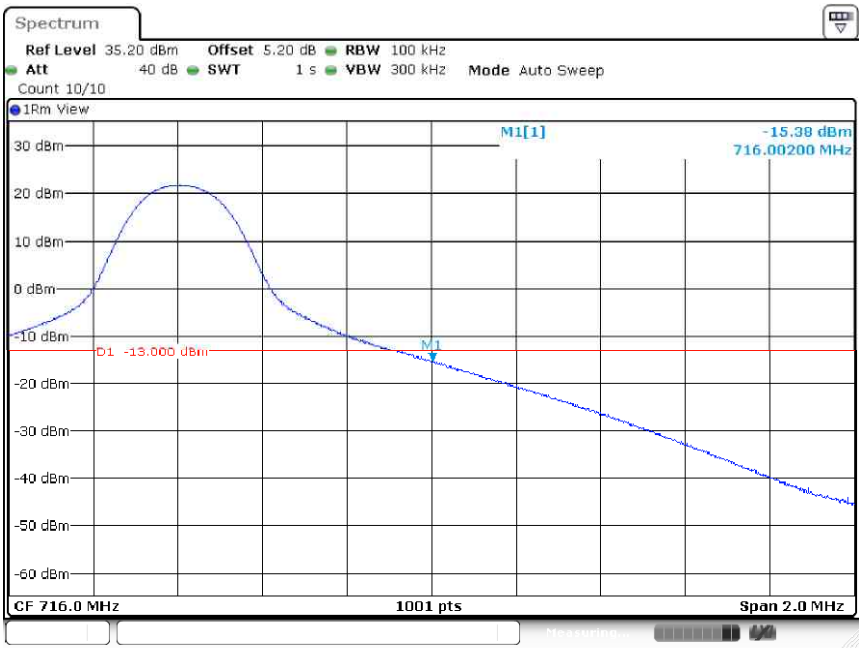
Band17-10MHz-QPSK-23780-50RB#0



Date: 27.JUN.2020 11:26:02

Band17-10MHz-QPSK-23800-1RB#49



Date: 27.JUN.2020 11:26:48

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

Date: 27.JUN.2020 11:27:30

Band17-10MHz-64QAM-23780-1RB#0

Date: 24.JUN.2020 09:53:45

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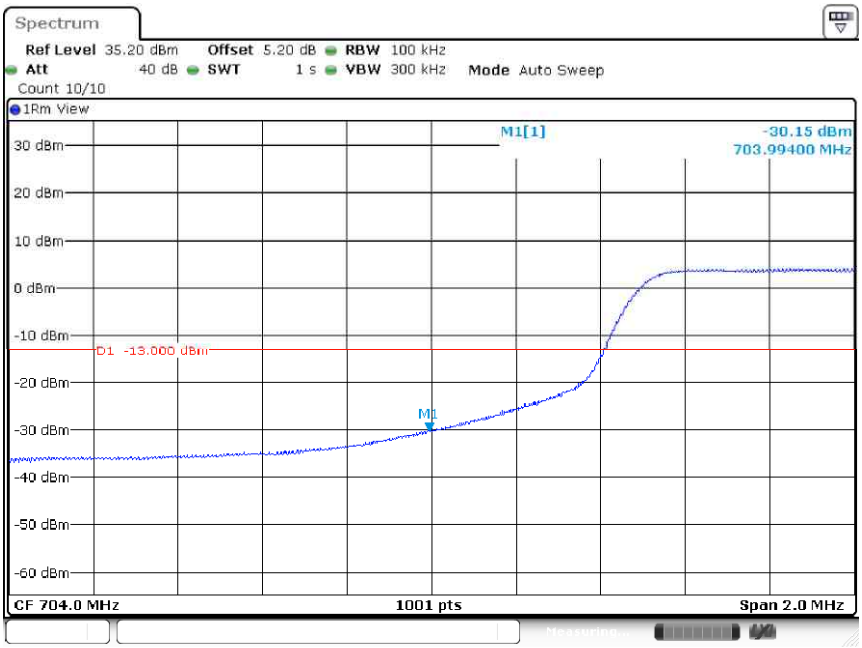

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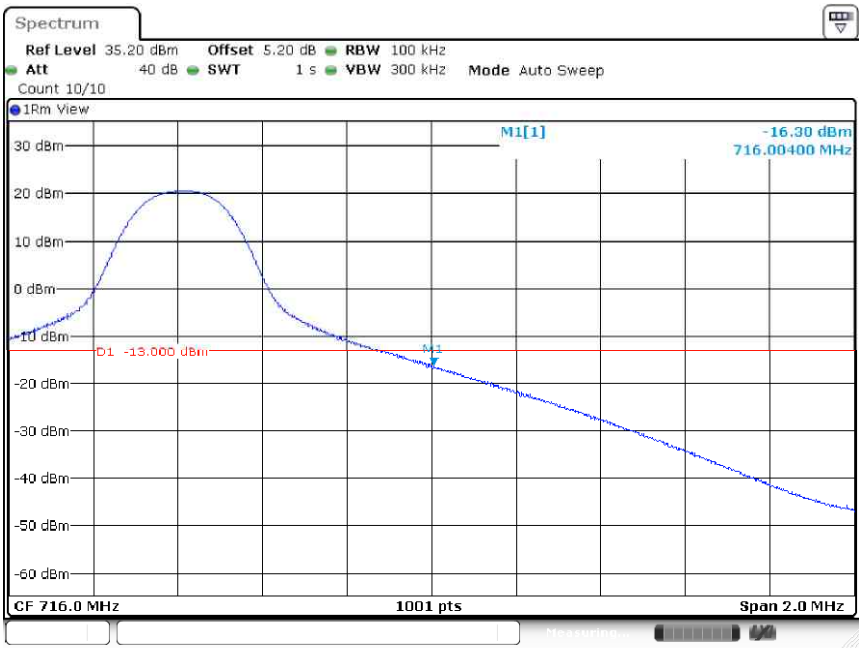

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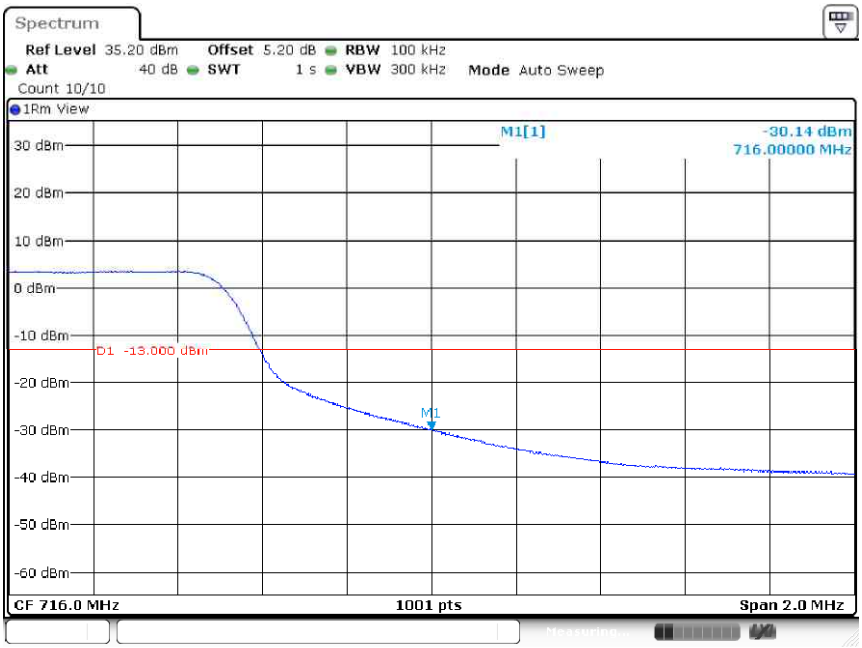

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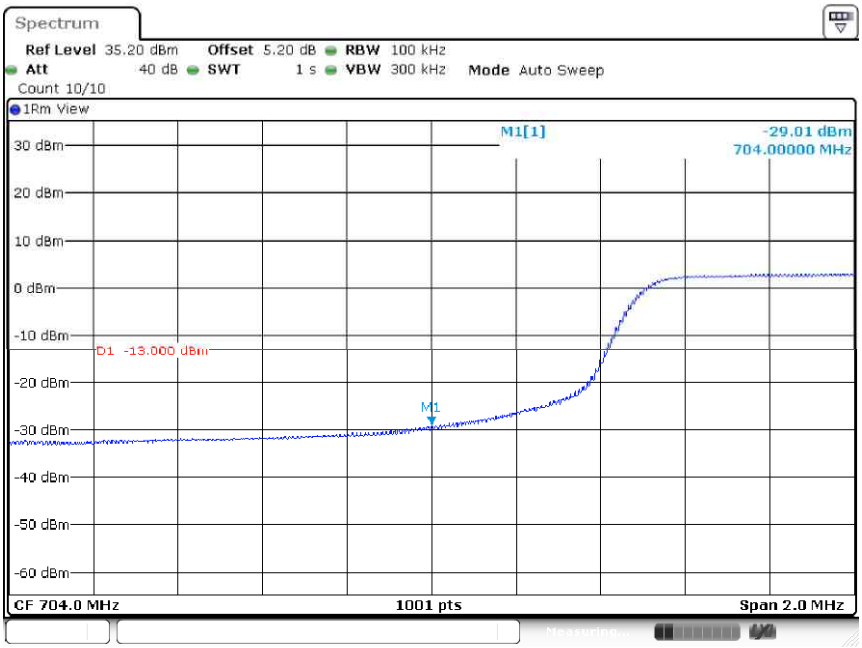

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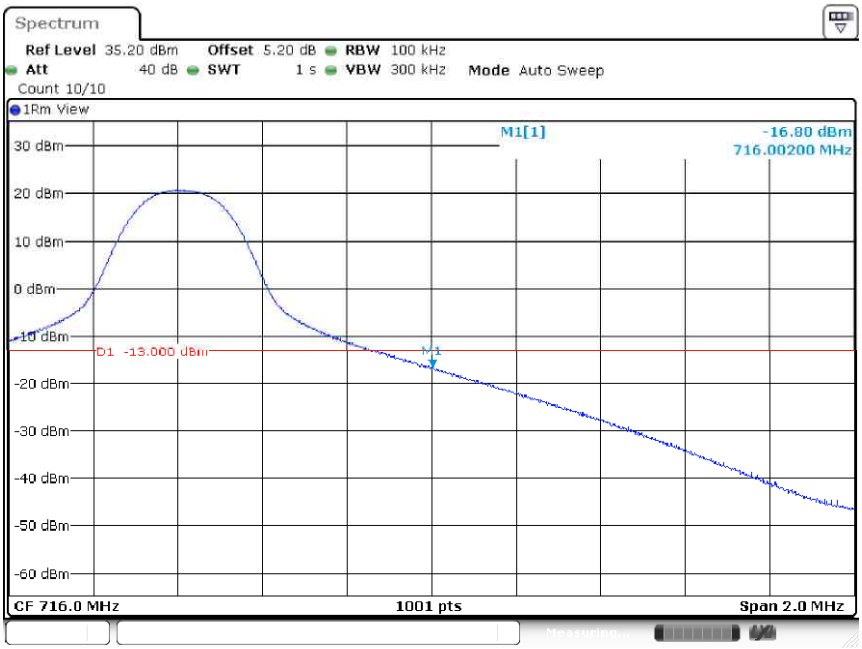

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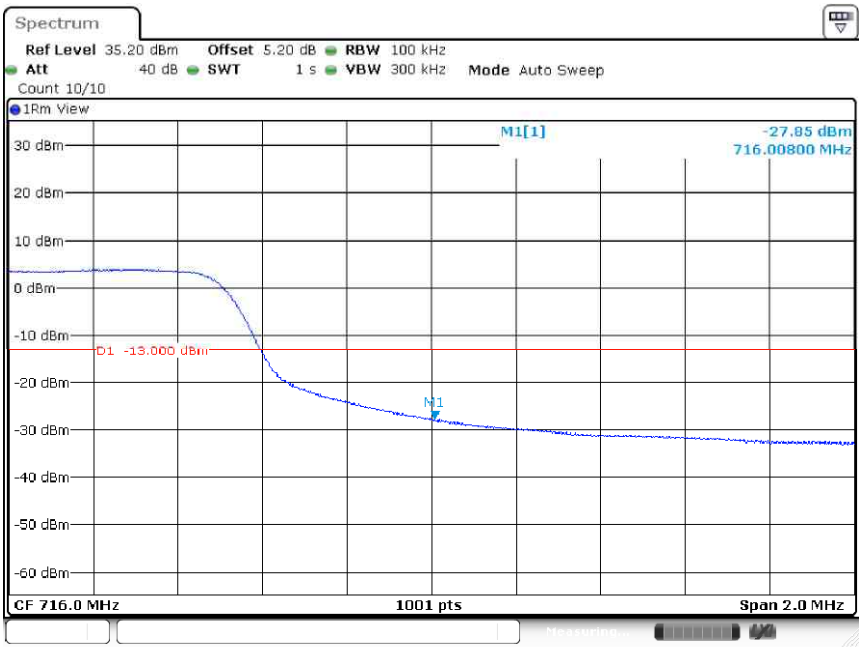

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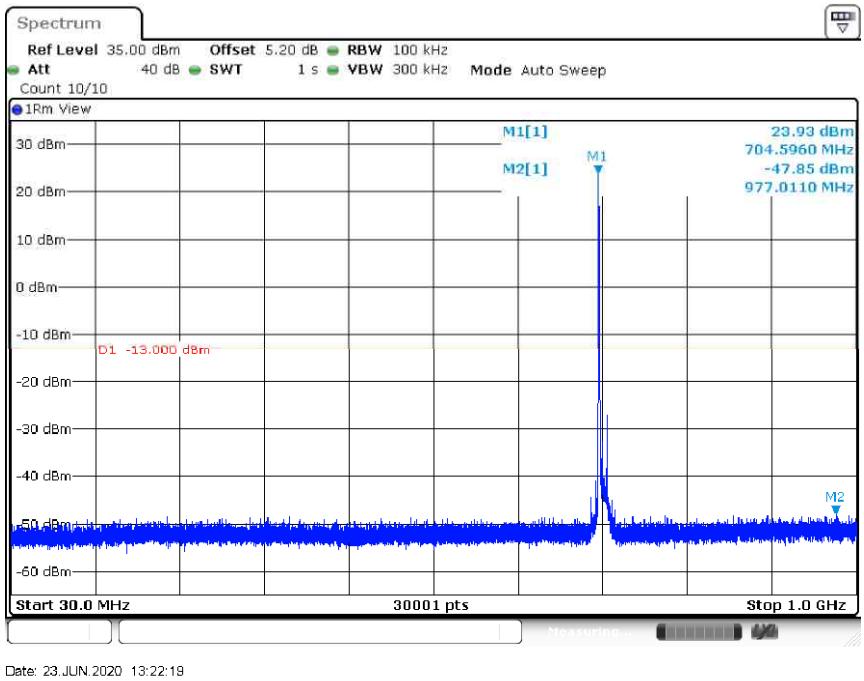
6. Spurious Emission at Antenna Terminal

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: only the worst case data displayed in this report.

6.1. Test Plots

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



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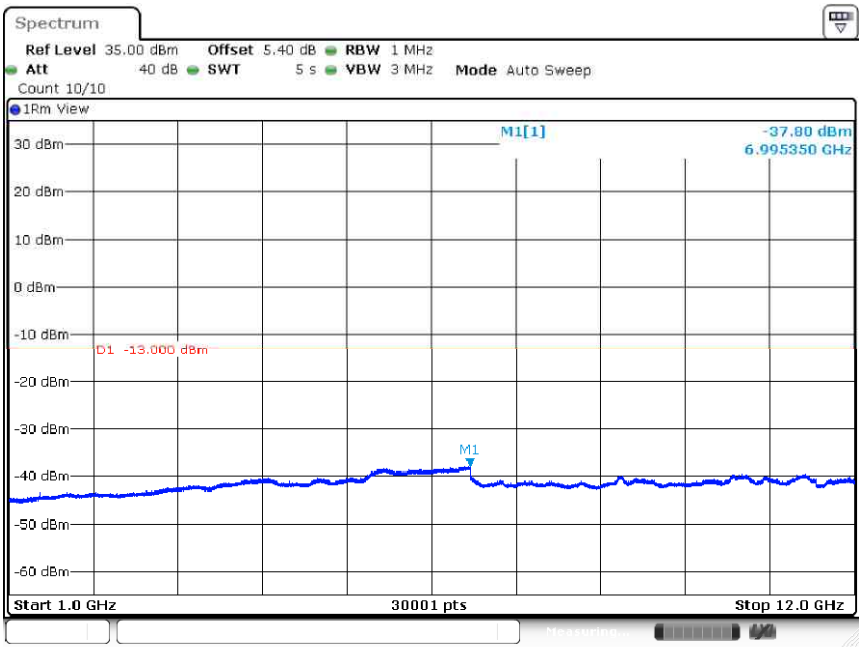
Band17-10MHz-QPSK-23780-1RB#0-Range2:1000~12000MHz



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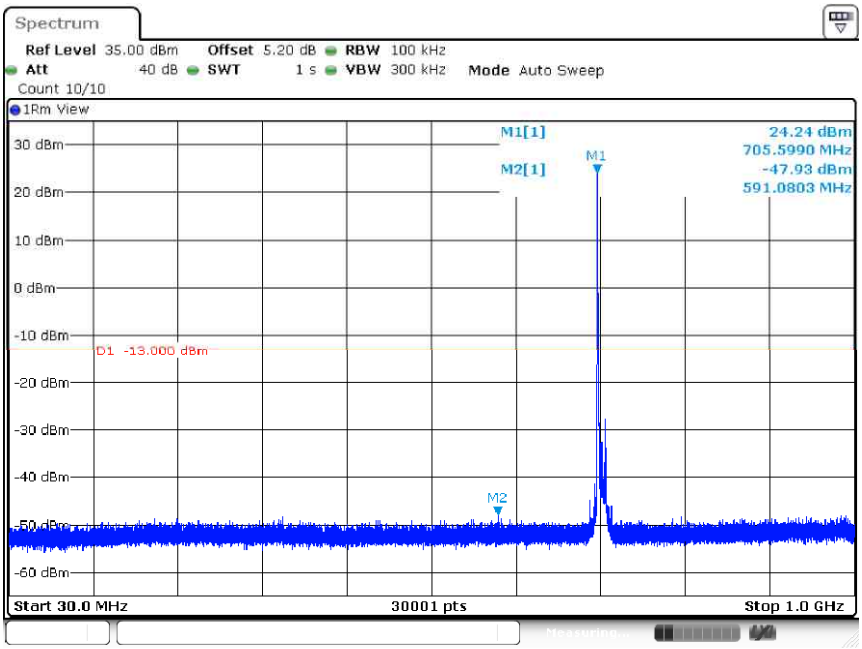
Band17-10MHz-QPSK-23790-1RB#0-Range1:30~1000MHz



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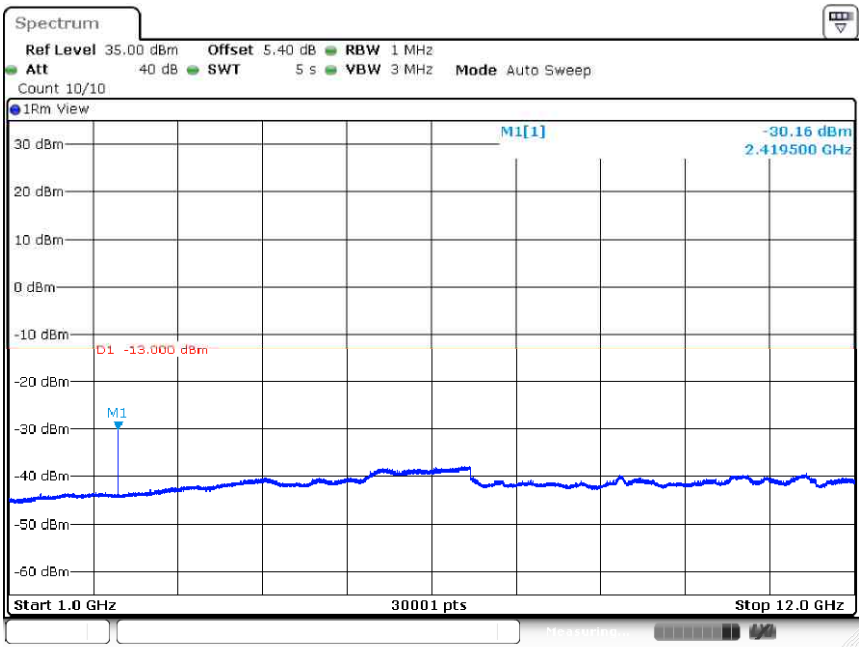
Band17-10MHz-QPSK-23790-1RB#0-Range2:1000~12000MHz



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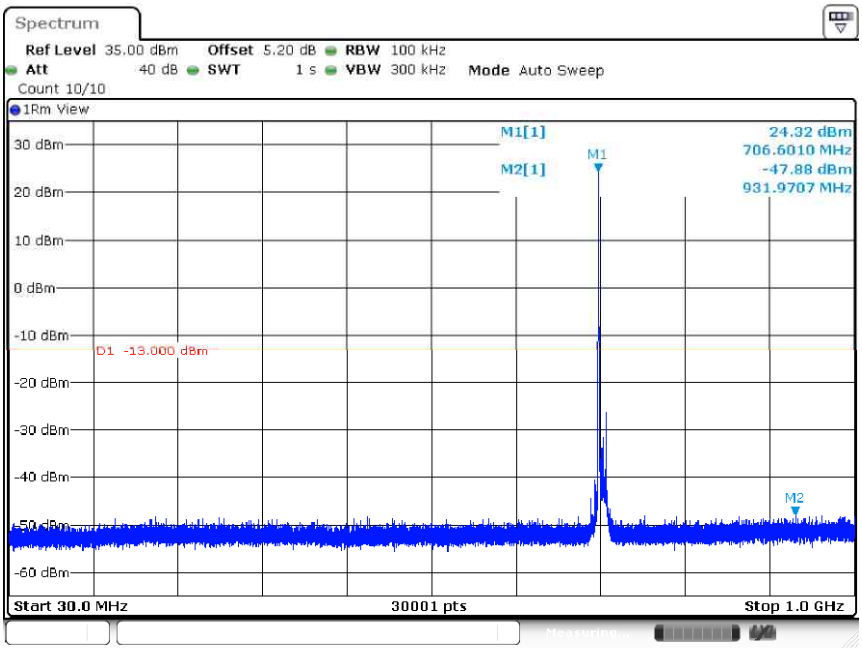
Band17-10MHz-QPSK-23800-1RB#0-Range1:30~1000MHz



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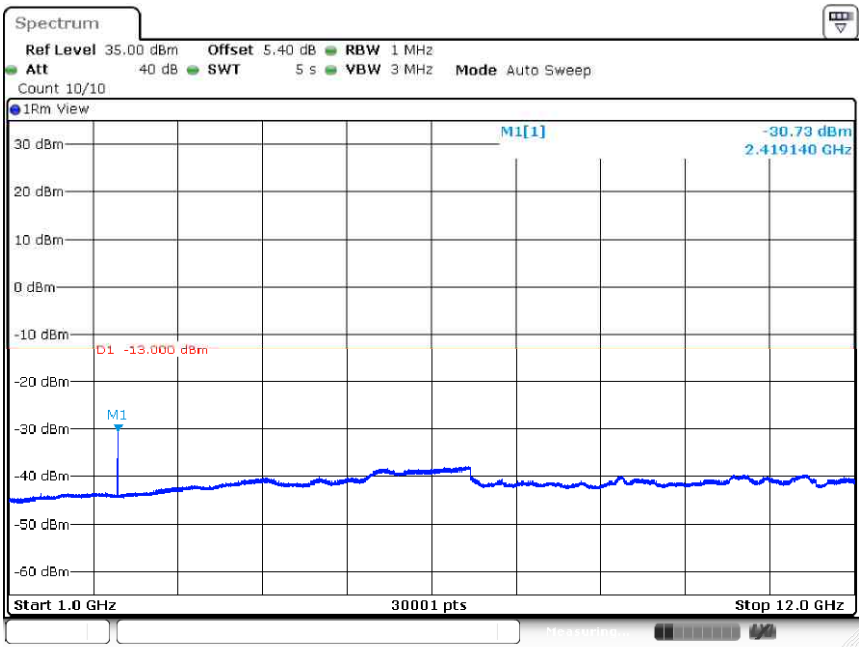
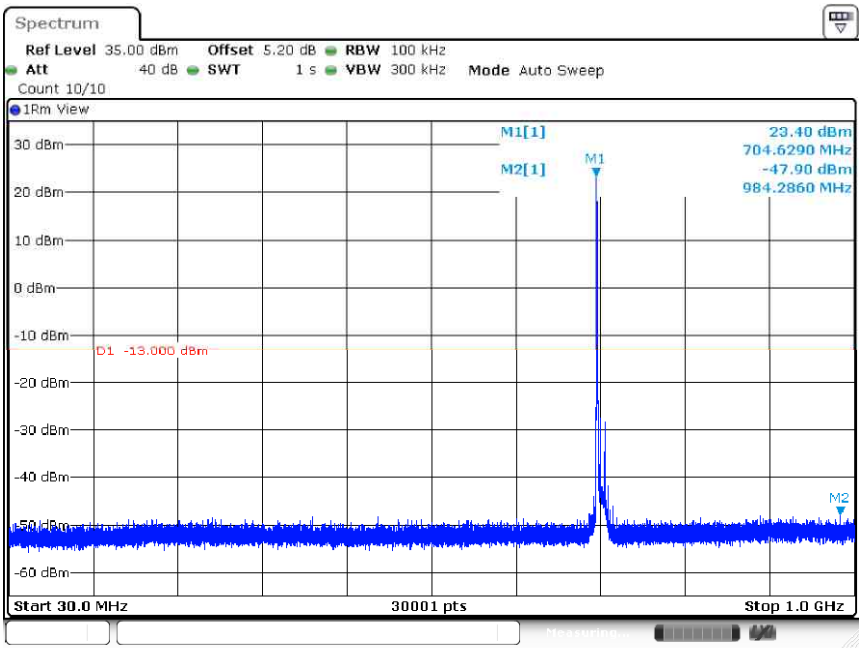
Band17-10MHz-QPSK-23800-1RB#0-Range2:1000~12000MHz



Date: 23.JUN.2020 13:29:13

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



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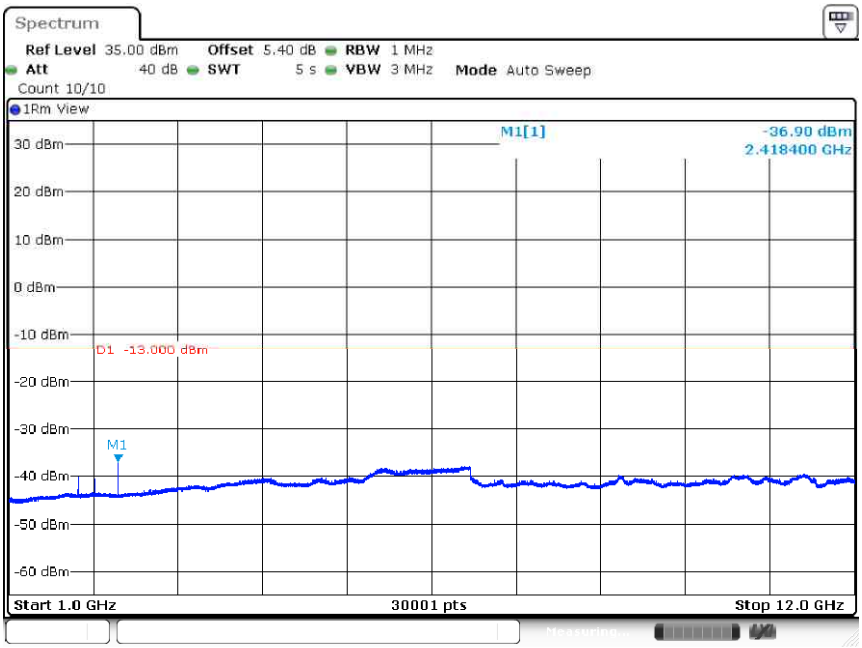
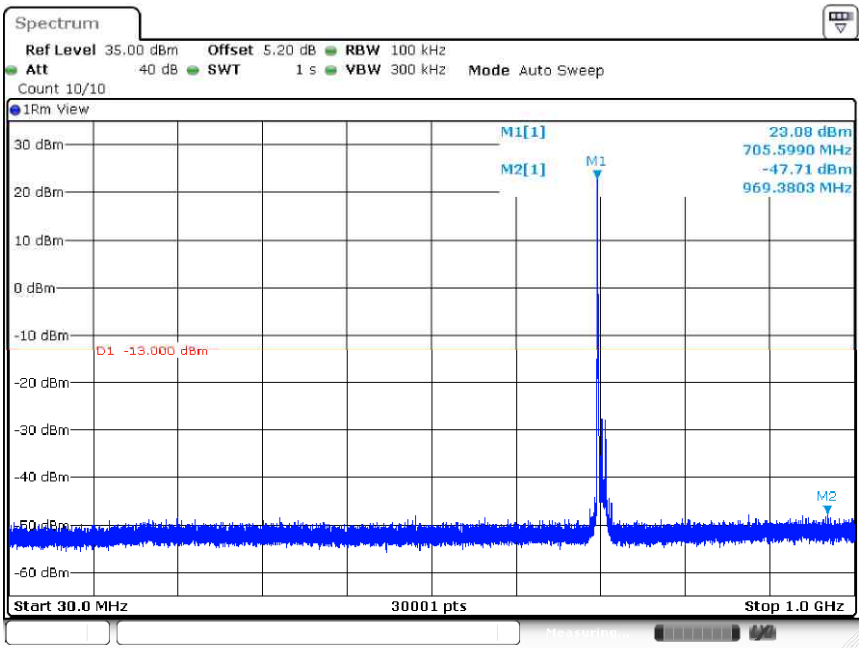
Band17-10MHz-64QAM-23780-1RB#0-Range2:1000~12000MHz



Date: 24.JUN.2020 09:56:23

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



Date: 24.JUN.2020 09:56:43

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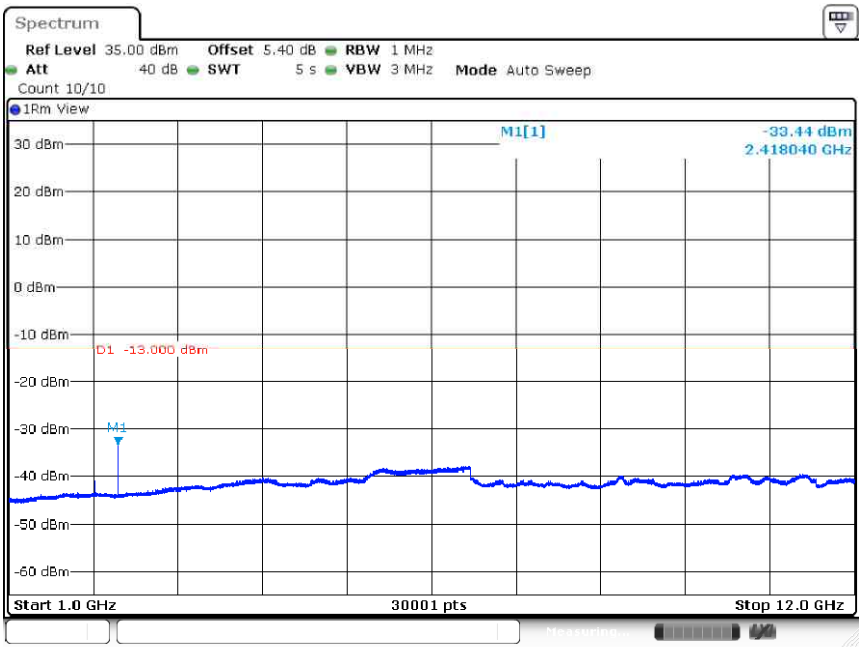
Band17-10MHz-64QAM-23790-1RB#0-Range2:1000~12000MHz



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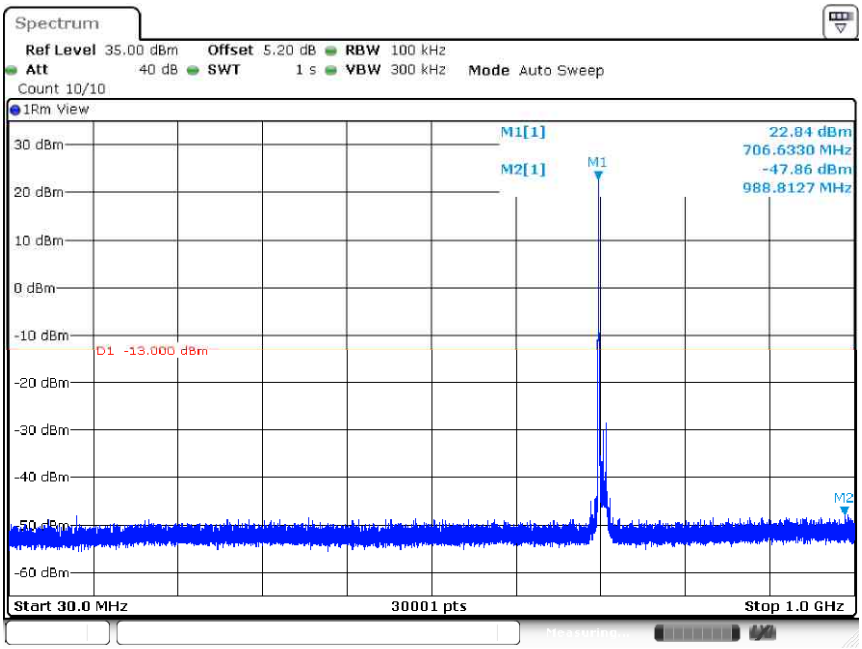
Band17-10MHz-64QAM-23800-1RB#0-Range1:30~1000MHz



Date: 24.JUN.2020 09:58:11

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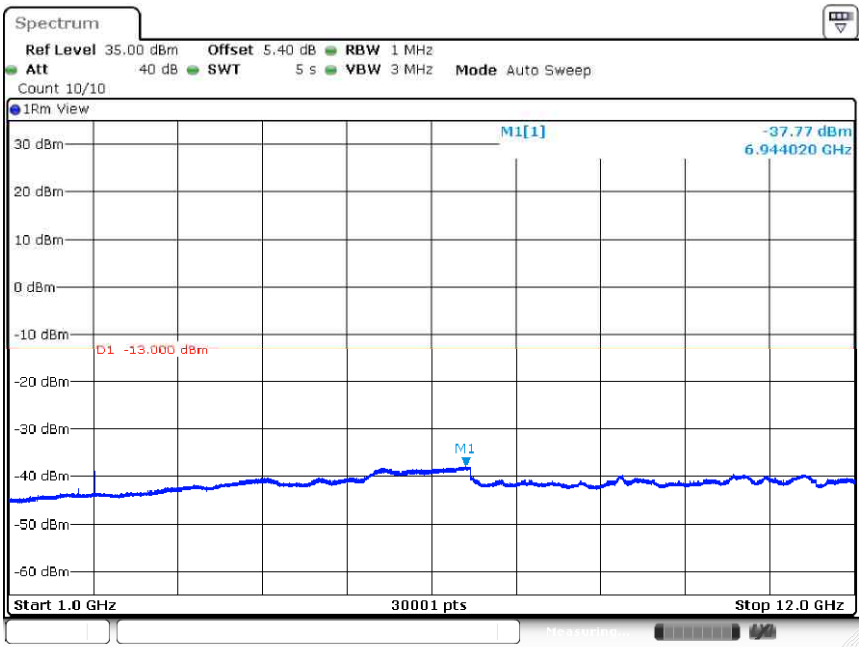
Band17-10MHz-64QAM-23800-1RB#0-Range2:1000~12000MHz



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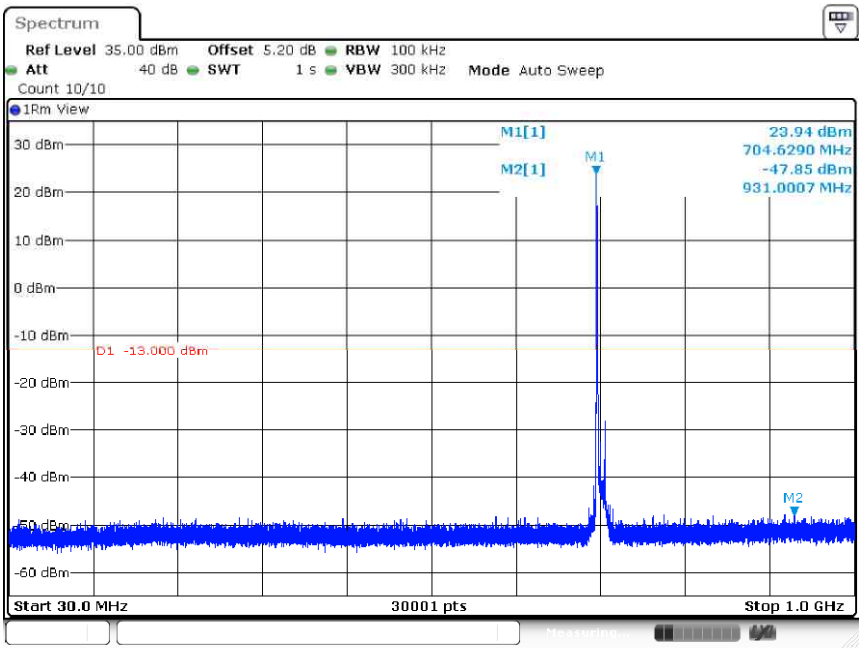

Date: 23.JUN.2020 13:23:45

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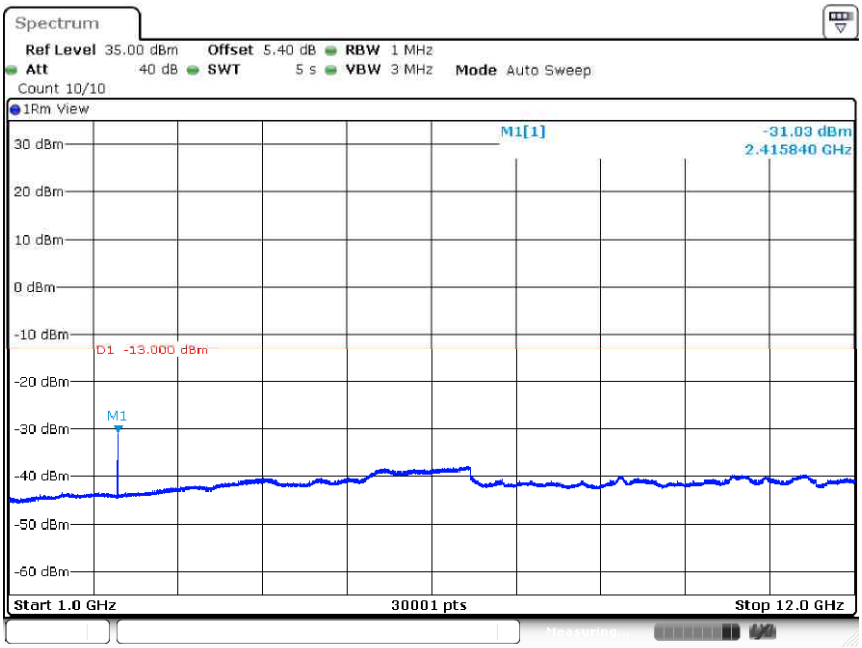
Band17-10MHz-16QAM-23780-1RB#0-Range2:1000~12000MHz



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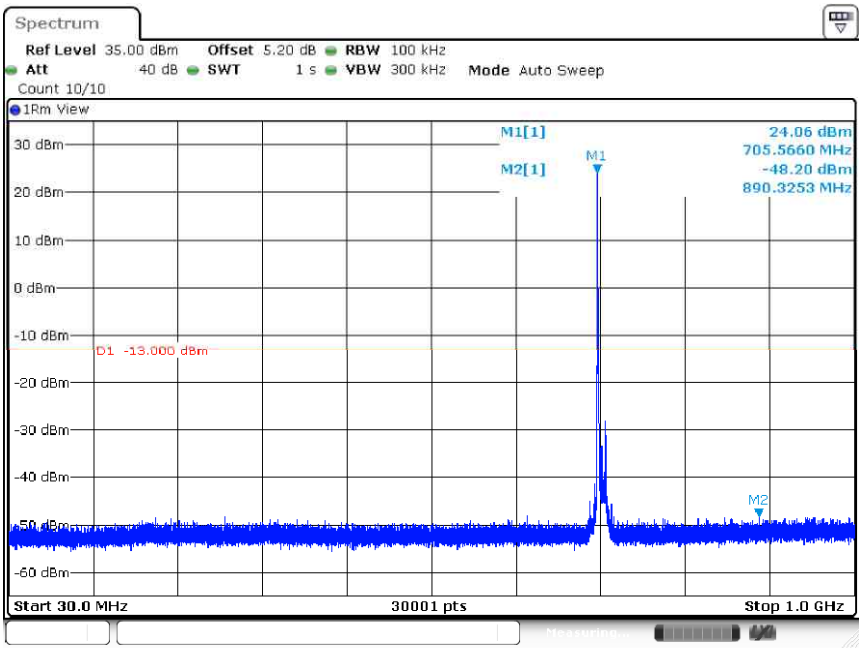

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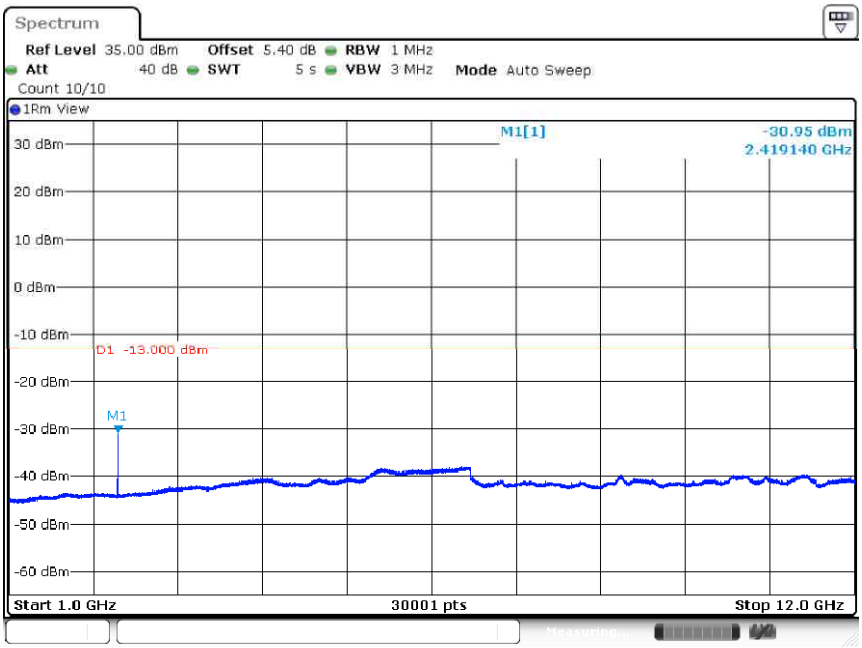
Band17-10MHz-16QAM-23790-1RB#0-Range2:1000~12000MHz



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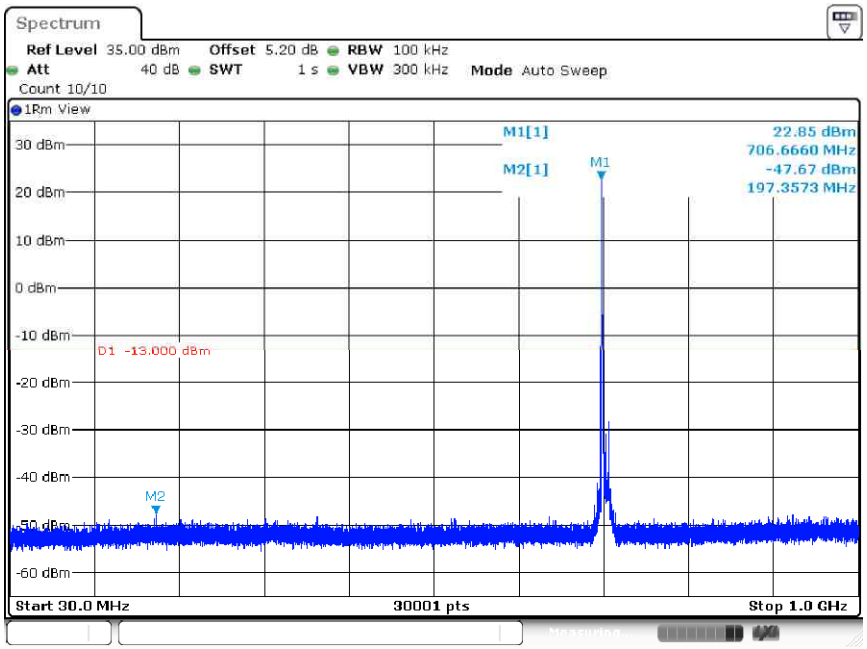
Band17-10MHz-16QAM-23800-1RB#0-Range1:30~1000MHz



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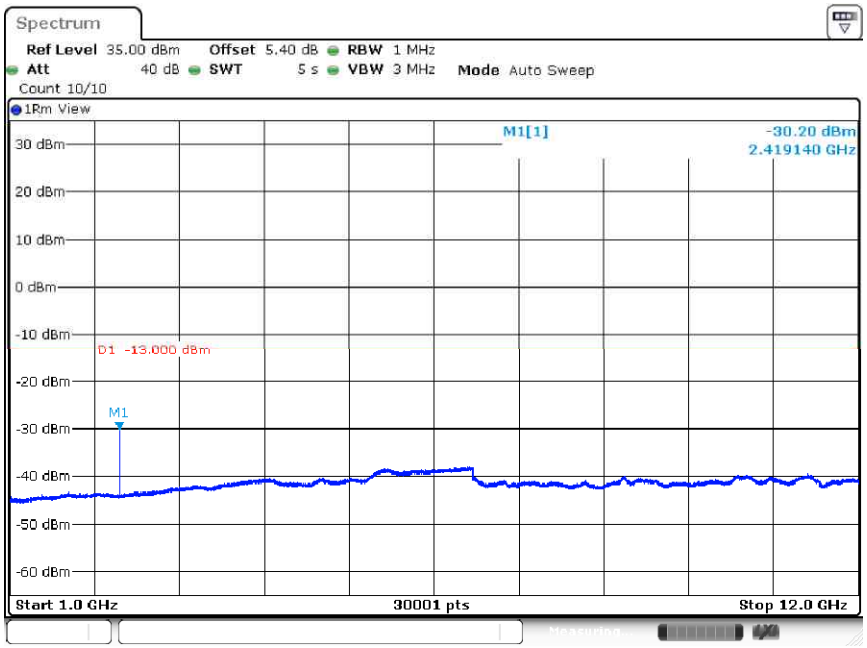

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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 10MHz

7.1.1.Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.1260	-65.24	-13.00	52.24	Vertical
580.7935	-65.15	-13.00	52.15	Vertical
1408.8818	-54.89	-13.00	41.89	Vertical
2113.8228	-55.80	-13.00	42.80	Vertical
14447.2579	-47.54	-13.00	34.54	Vertical
17998.8000	-39.96	-13.00	26.96	Vertical
45.4238	-64.12	-13.00	51.12	Horizontal
392.4101	-67.33	-13.00	54.33	Horizontal
1408.8818	-49.12	-13.00	36.12	Horizontal
2113.8228	-51.68	-13.00	38.68	Horizontal
9331.4533	-52.82	-13.00	39.82	Horizontal
16387.7355	-43.67	-13.00	30.67	Horizontal

7.1.2.Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
109.9320	-65.22	-13.00	52.22	Vertical
456.9668	-67.47	-13.00	54.47	Vertical
1410.8822	-54.58	-13.00	41.58	Vertical
2116.6233	-55.54	-13.00	42.54	Vertical
14495.2598	-47.39	-13.00	34.39	Vertical
17997.5999	-39.63	-13.00	26.63	Vertical
42.1741	-64.08	-13.00	51.08	Horizontal
376.5983	-67.92	-13.00	54.92	Horizontal
1411.2823	-49.13	-13.00	36.13	Horizontal
2117.0234	-51.33	-13.00	38.33	Horizontal
10603.5041	-52.27	-13.00	39.27	Horizontal
16390.1356	-43.49	-13.00	30.49	Horizontal

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7.1.3.Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
111.3386	-64.62	-13.00	51.62	Vertical
496.2538	-67.19	-13.00	54.19	Vertical
1412.8826	-54.81	-13.00	41.81	Vertical
2119.8240	-54.76	-13.00	41.76	Vertical
14468.8588	-47.39	-13.00	34.39	Vertical
17993.3997	-39.50	-13.00	26.50	Vertical
41.1071	-64.29	-13.00	51.29	Horizontal
459.2950	-67.48	-13.00	54.48	Horizontal
1412.8826	-46.75	-13.00	33.75	Horizontal
2119.8240	-49.91	-13.00	36.91	Horizontal
9336.2535	-52.65	-13.00	39.65	Horizontal
16390.1356	-43.48	-13.00	30.48	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 (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	VL	NT	-10.80	-0.015233	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VN	NT	-7.20	-0.010155	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VH	NT	-9.20	-0.012976	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	-2.70	-0.003803	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	-1.60	-0.002254	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-12.20	-0.017183	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VL	NT	-9.60	-0.013502	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VN	NT	-7.00	-0.009845	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VH	NT	-8.70	-0.012236	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VL	NT	-6.00	-0.008463	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VN	NT	-7.60	-0.010719	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VH	NT	-5.00	-0.007052	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VL	NT	-4.50	-0.006338	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VN	NT	-4.70	-0.006620	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VH	NT	-5.50	-0.007746	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VL	NT	-4.80	-0.006751	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VN	NT	-5.00	-0.007032	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VH	NT	-6.80	-0.009564	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VL	NT	-2.90	-0.004090	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VN	NT	-6.60	-0.009309	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VH	NT	-7.00	-0.009873	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VL	NT	-8.60	-0.012113	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VN	NT	-3.20	-0.004507	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VH	NT	-5.70	-0.008028	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VL	NT	-13.00	-0.018284	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VN	NT	-6.70	-0.009423	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VH	NT	-2.40	-0.003376	±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	-2.10	-0.002962	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-20	-1.10	-0.001551	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	0	-6.70	-0.009450	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	10	-7.70	-0.010860	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	20	-3.20	-0.004513	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	30	-1.00	-0.001410	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	40	-1.90	-0.002680	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	50	-9.10	-0.012835	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-5.70	-0.008028	±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	-4.70	-0.006620	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-11.30	-0.015915	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-6.90	-0.009718	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-2.20	-0.003099	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-3.20	-0.004507	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-2.00	-0.002817	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-30	0.10	0.000141	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-20	-9.40	-0.013221	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	0	-4.60	-0.006470	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	10	-10.10	-0.014205	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	20	-8.40	-0.011814	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	30	-5.60	-0.007876	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	40	-3.90	-0.005485	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	50	-5.00	-0.007032	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-30	-6.00	-0.008463	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-20	-13.80	-0.019464	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	0	-6.60	-0.009309	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	10	-6.80	-0.009591	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	20	-7.50	-0.010578	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	30	-7.50	-0.010578	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	40	-8.70	-0.012271	±2.5	PASS

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Band17	10MHz	64QAM	23780	50RB#0	NV	50	-6.20	-0.008745	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-30	-3.30	-0.004648	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-20	-8.50	-0.011972	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	0	-8.40	-0.011831	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	10	-11.00	-0.015493	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	20	-7.30	-0.010282	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	30	-9.10	-0.012817	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	40	-6.80	-0.009577	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	50	-3.90	-0.005493	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-30	-8.80	-0.012377	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-20	-1.90	-0.002672	±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	-1.80	-0.002532	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	20	-1.90	-0.002672	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	30	-14.10	-0.019831	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	40	-3.70	-0.005204	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	50	-5.50	-0.007736	±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	-3.50	-0.004937	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	0	-10.80	-0.015233	±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	20	-0.30	-0.000423	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	30	-5.70	-0.008039	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	40	-5.20	-0.007334	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	50	-0.80	-0.001128	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-30	-1.50	-0.002113	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-20	-4.70	-0.006620	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	0	-3.20	-0.004507	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	10	-2.30	-0.003239	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	20	-3.30	-0.004648	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	30	-4.70	-0.006620	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	40	-5.70	-0.008028	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	50	-3.80	-0.005352	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-30	-4.60	-0.006470	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-20	-3.10	-0.004360	±2.5	PASS

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Band17	10MHz	16QAM	23800	50RB#0	NV	0	-2.90	-0.004079	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	10	-8.00	-0.011252	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	20	-5.00	-0.007032	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	30	-6.10	-0.008579	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	40	-5.30	-0.007454	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	50	-1.70	-0.002391	±2.5	PASS

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