

Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

LTE FDD Band 12				
TX Channel Bandwidth	Channel	RB Size/Offset	Average Power [dBm]	
			QPSK	16QAM
1.4 MHz	23017	1 RB low	22.43	21.98
		1 RB high	22.23	21.41
		50% RB mid	22.11	21.69
		100% RB	23.31	22.81
	23095	1 RB low	22.10	21.29
		1 RB high	22.09	21.65
		50% RB mid	21.58	20.78
		100% RB	22.17	21.40
	23173	1 RB low	21.93	21.33
		1 RB high	22.71	22.36
		50% RB mid	21.72	21.20
		100% RB	22.66	22.19
3 MHz	23025	1 RB low	22.59	21.76
		1 RB high	22.76	22.05
		50% RB mid	22.62	22.20
		100% RB	23.33	22.84
	23095	1 RB low	22.60	21.93
		1 RB high	22.95	22.33
		50% RB mid	22.90	22.33
		100% RB	22.06	21.65
	23165	1 RB low	23.12	22.49
		1 RB high	21.66	21.02
		50% RB mid	21.79	21.17
		100% RB	22.02	21.42
5 MHz	23035	1 RB low	21.79	21.36
		1 RB high	22.58	21.74
		50% RB mid	22.73	22.29
		100% RB	22.40	21.65
	23095	1 RB low	23.07	22.41
		1 RB high	21.67	21.08
		50% RB mid	22.74	22.22
		100% RB	21.61	20.90
	23155	1 RB low	22.72	22.15
		1 RB high	22.49	21.83
		50% RB mid	21.94	21.26

		100% RB	21.77	21.35
10 MHz	23060	1 RB low	21.60	20.97
		1 RB high	22.03	21.42
		50% RB mid	21.77	20.95
		100% RB	23.05	22.23
	23095	1 RB low	22.11	21.72
		1 RB high	22.15	21.62
		50% RB mid	22.60	22.13
		100% RB	22.22	21.49
	23130	1 RB low	22.05	21.32
		1 RB high	21.89	21.37
		50% RB mid	23.02	22.62
		100% RB	22.46	22.02

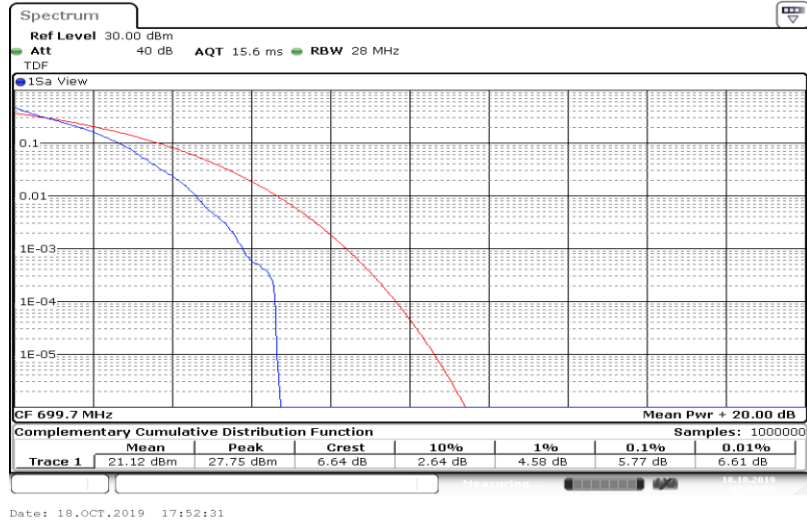
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

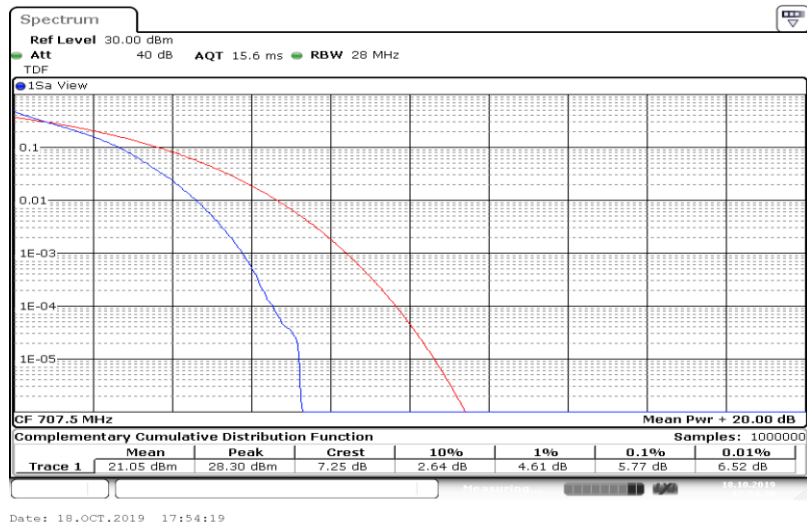
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	5.77	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.77	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	5.33	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	6.32	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	6.35	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	5.83	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.39	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.74	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.19	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	6.32	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.52	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	6.06	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.48	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.74	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.36	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	6.26	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.52	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	6.12	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.45	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.68	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.62	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.35	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.46	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.35	13	PASS

Test Graphs

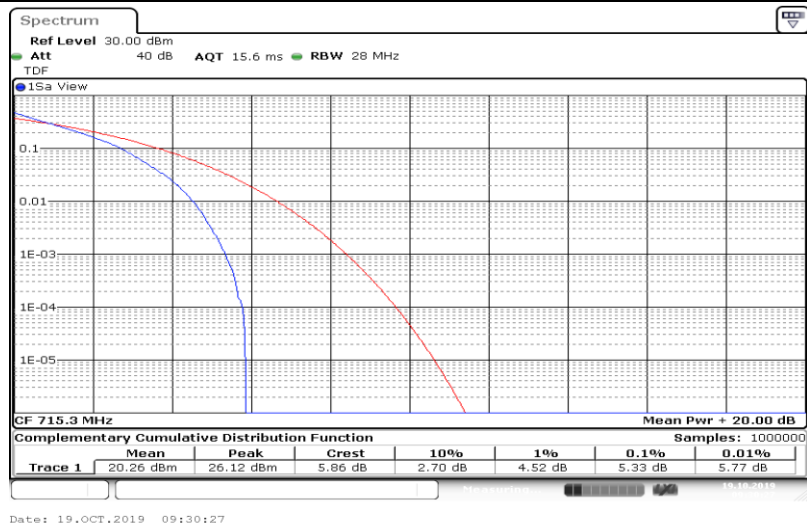
Band12-1.4MHz-QPSK-23017-6RB#0



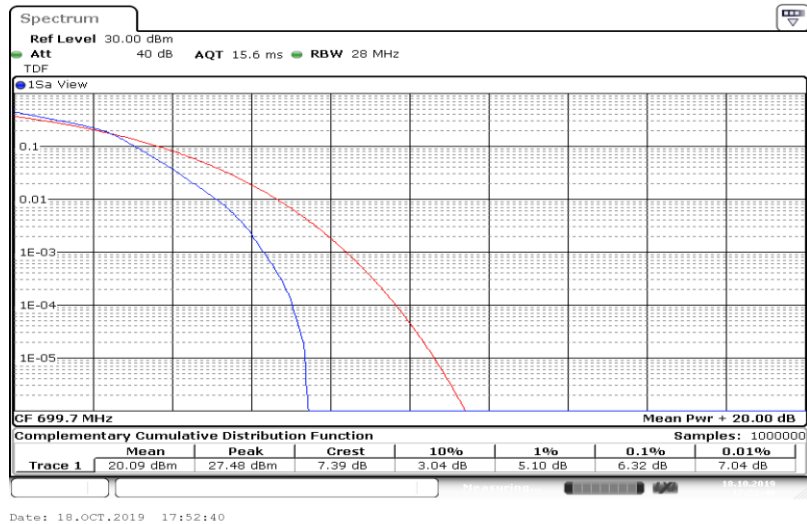
Band12-1.4MHz-QPSK-23095-6RB#0



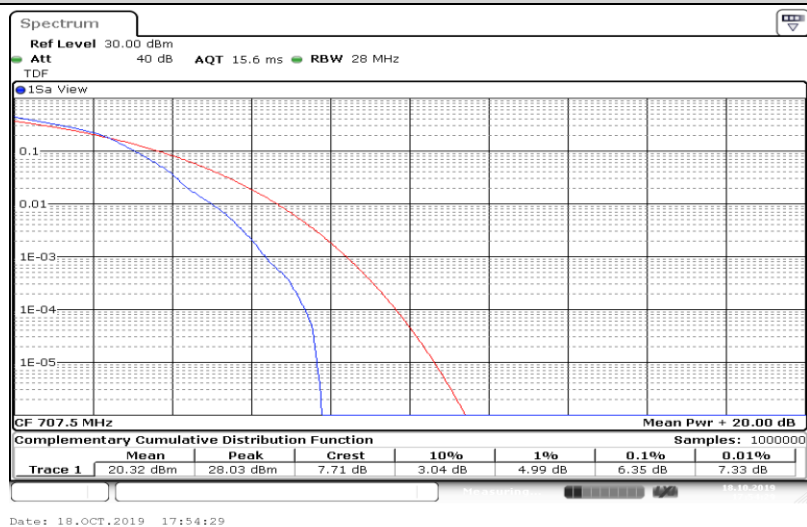
Band12-1.4MHz-QPSK-23173-6RB#0



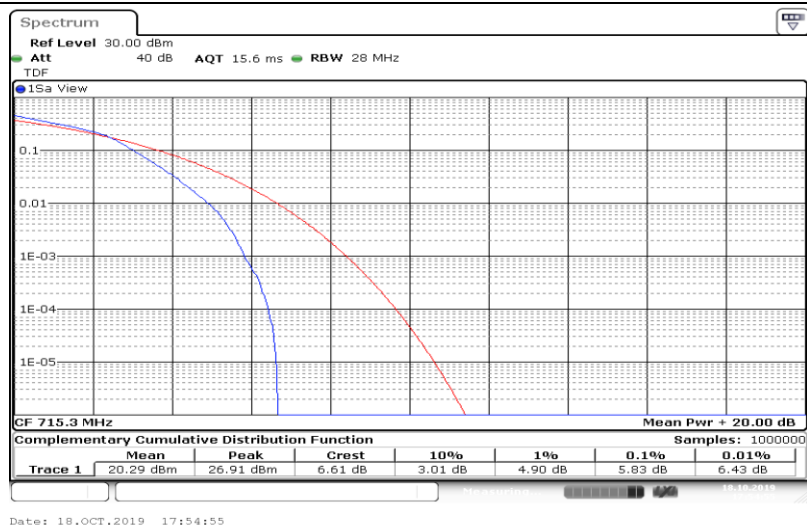
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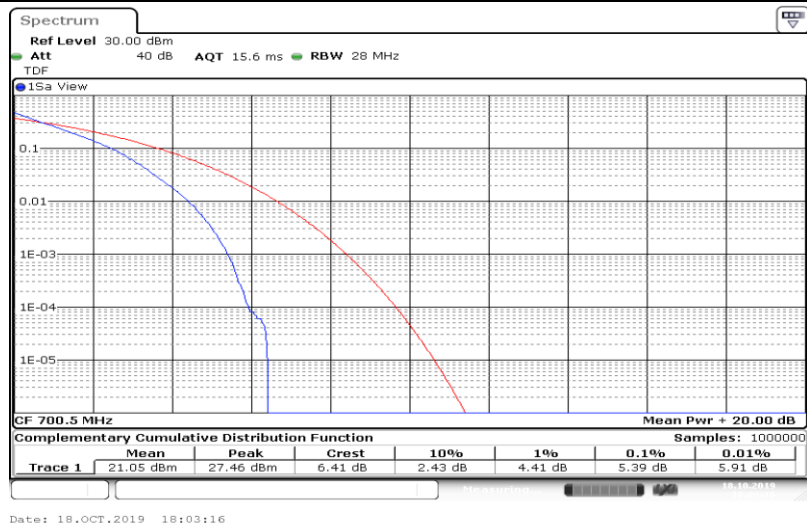
Band12-1.4MHz-16QAM-23095-6RB#0



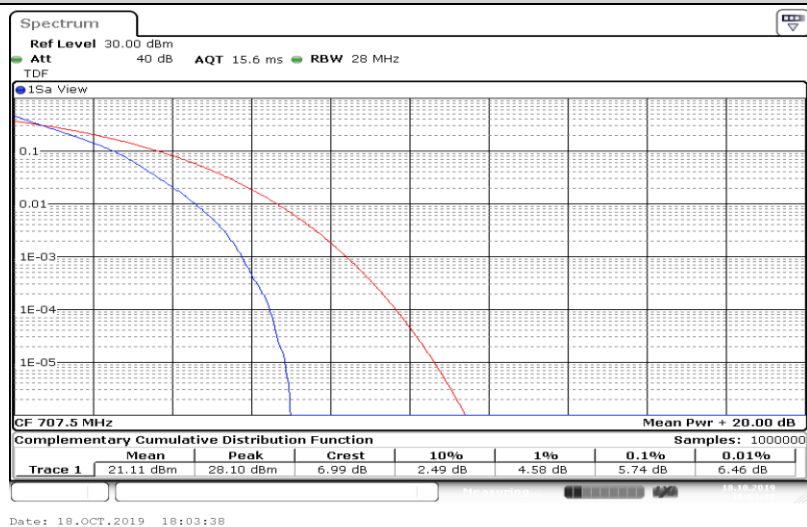
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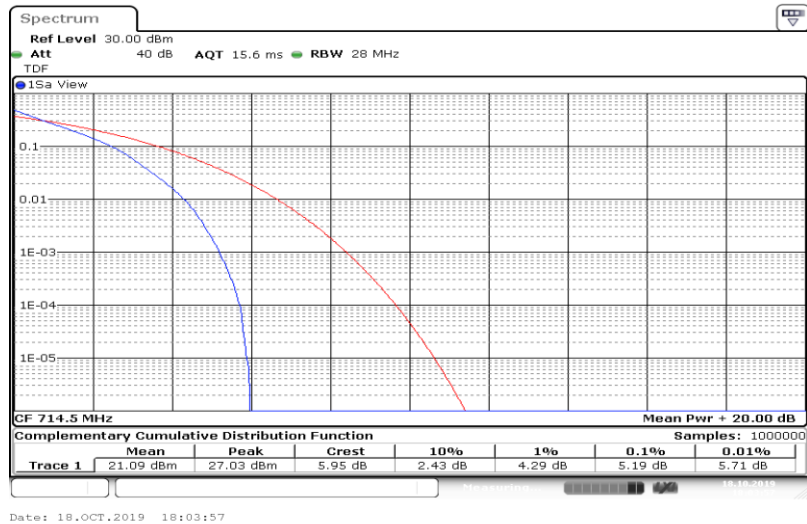
Band12-3MHz-QPSK-23025-15RB#0



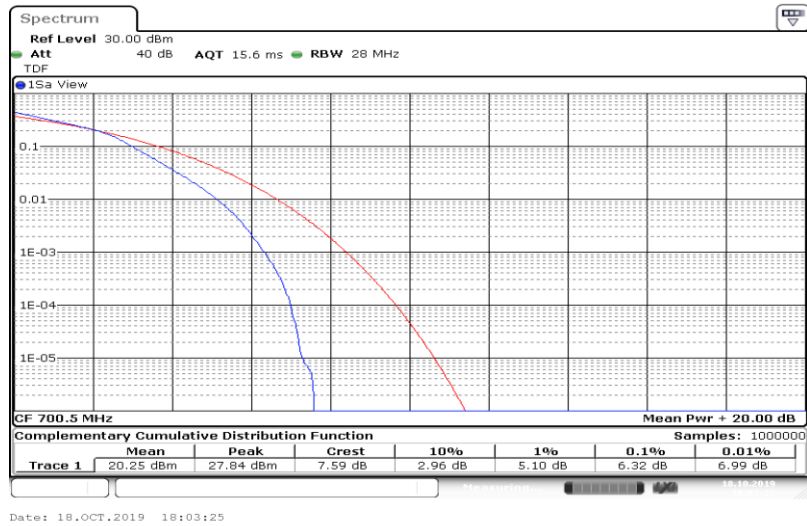
Band12-3MHz-QPSK-23095-15RB#0



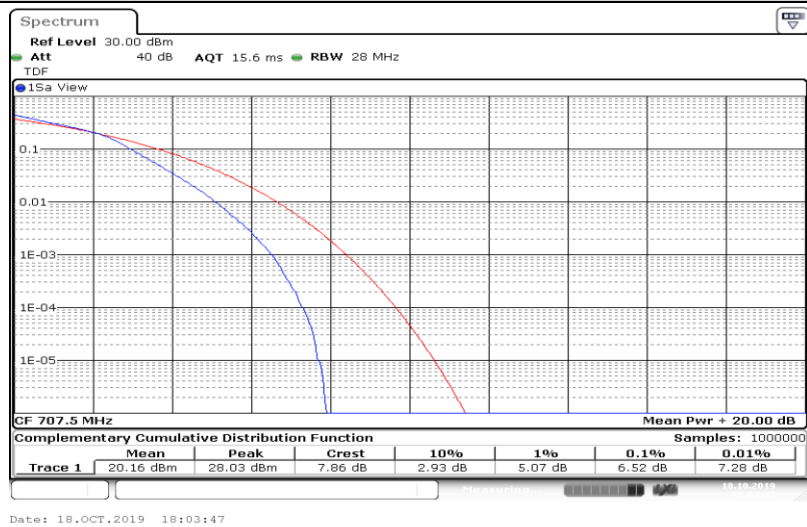
Band12-3MHz-QPSK-23165-15RB#0



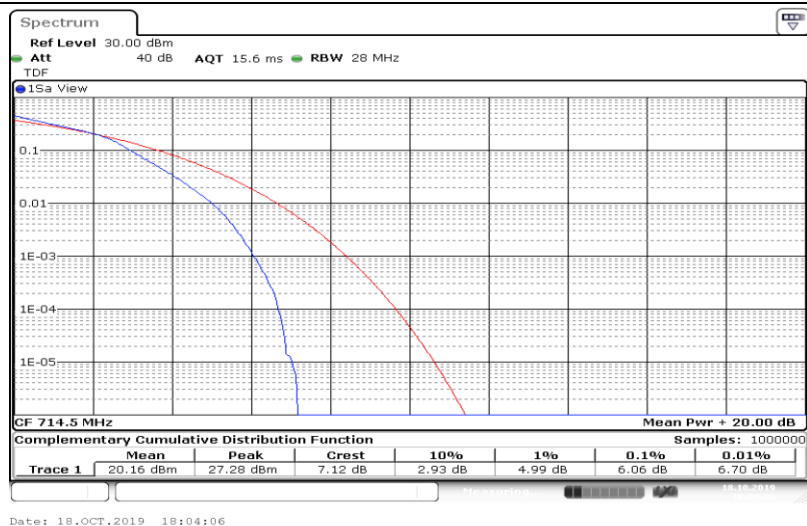
Band12-3MHz-16QAM-23025-15RB#0



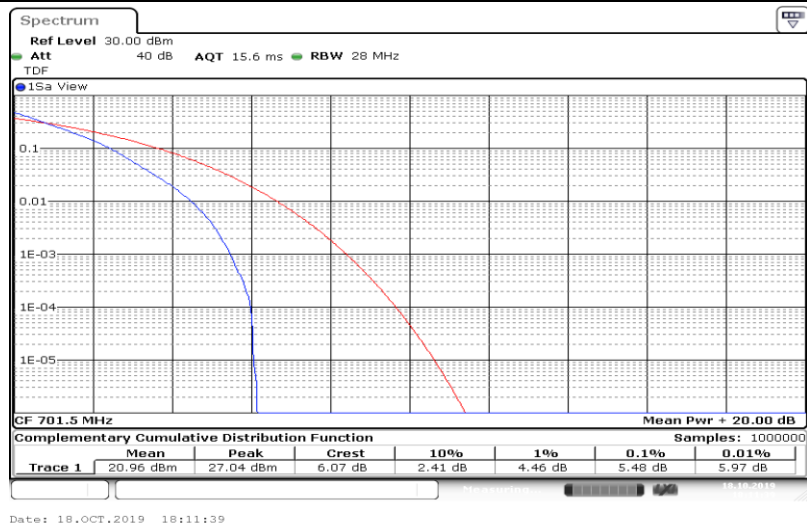
Band12-3MHz-16QAM-23095-15RB#0



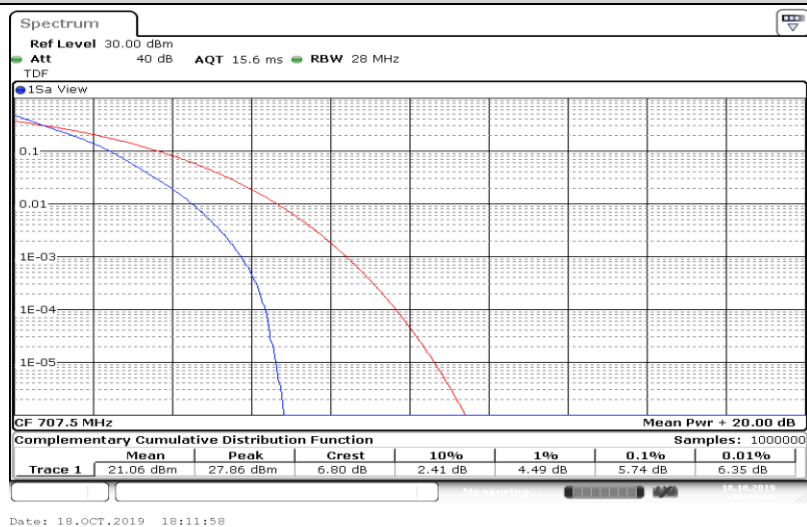
Band12-3MHz-16QAM-23165-15RB#0



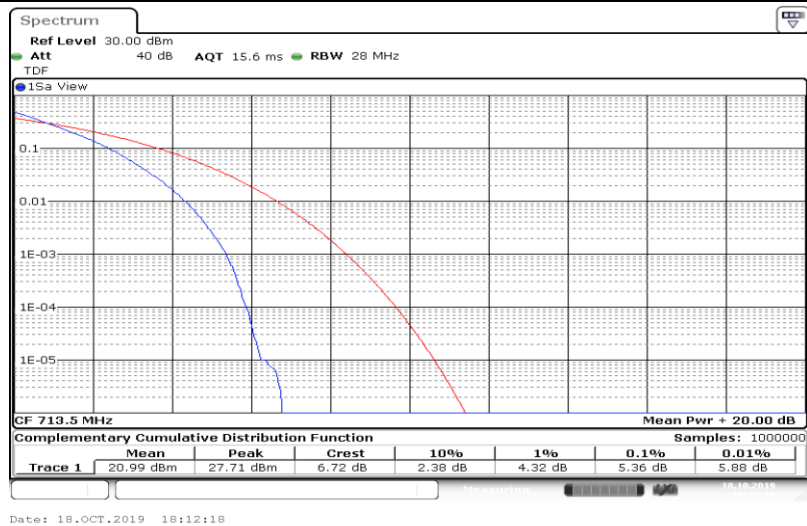
Band12-5MHz-QPSK-23035-25RB#0



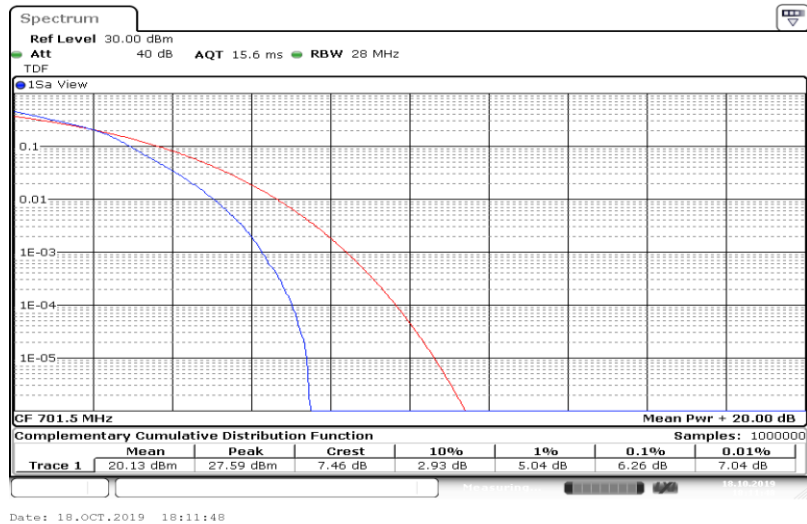
Band12-5MHz-QPSK-23095-25RB#0



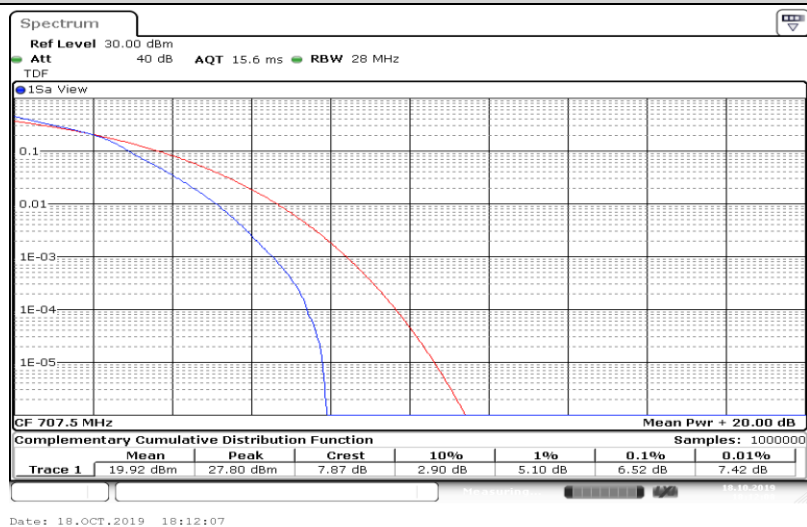
Band12-5MHz-QPSK-23155-25RB#0



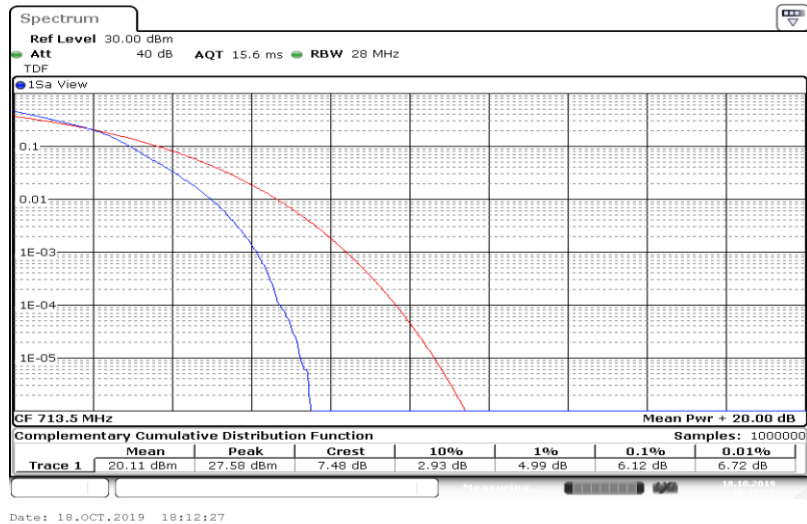
Band12-5MHz-16QAM-23035-25RB#0



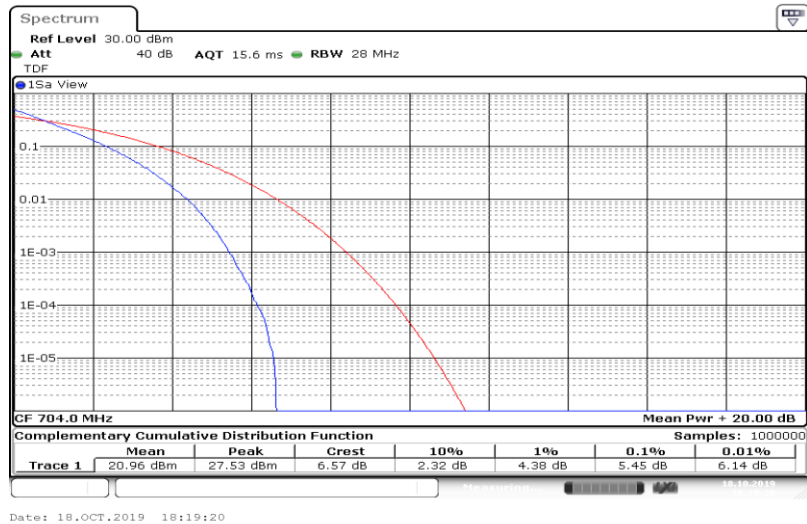
Band12-5MHz-16QAM-23095-25RB#0



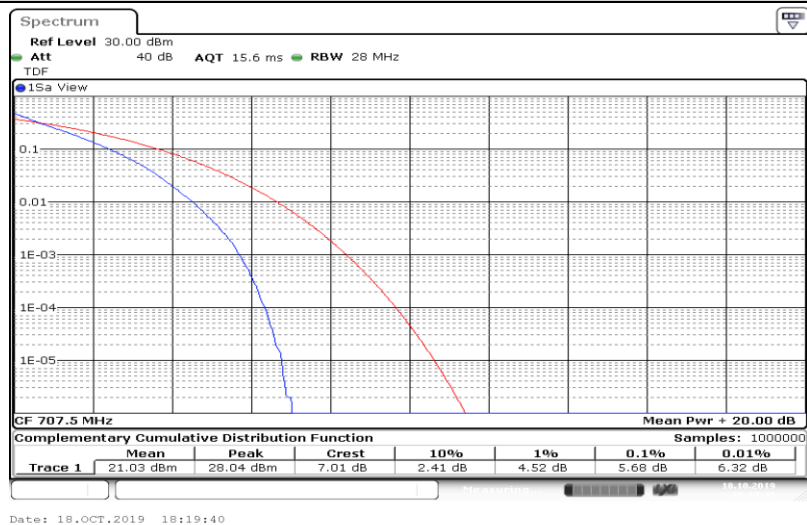
Band12-5MHz-16QAM-23155-25RB#0



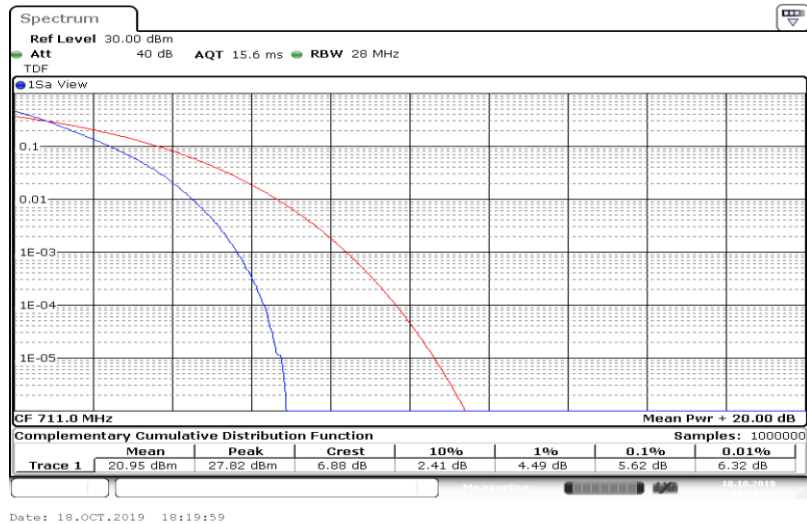
Band12-10MHz-QPSK-23060-50RB#0



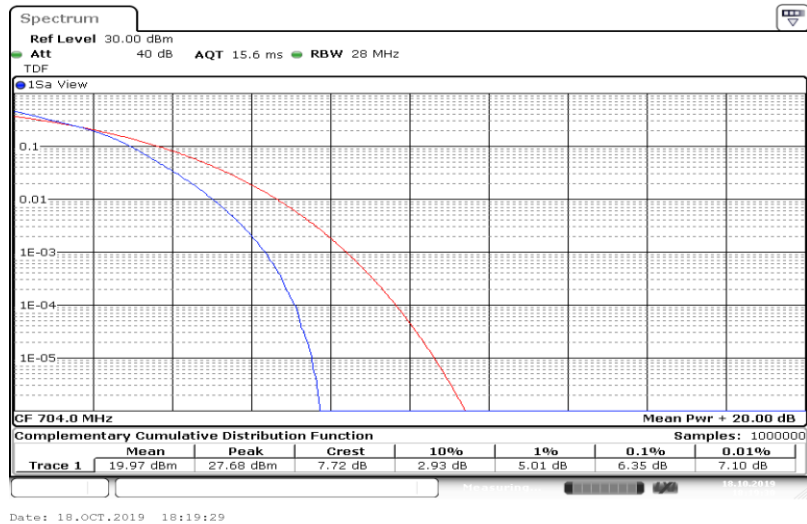
Band12-10MHz-QPSK-23095-50RB#0



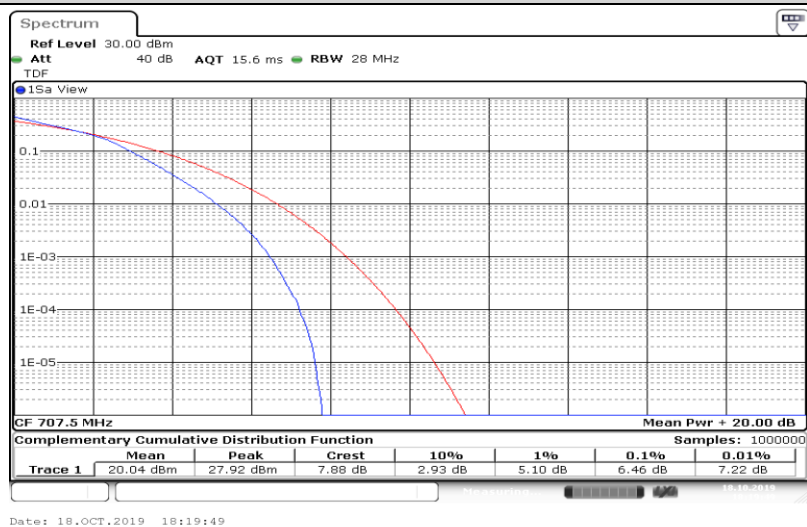
Band12-10MHz-QPSK-23130-50RB#0



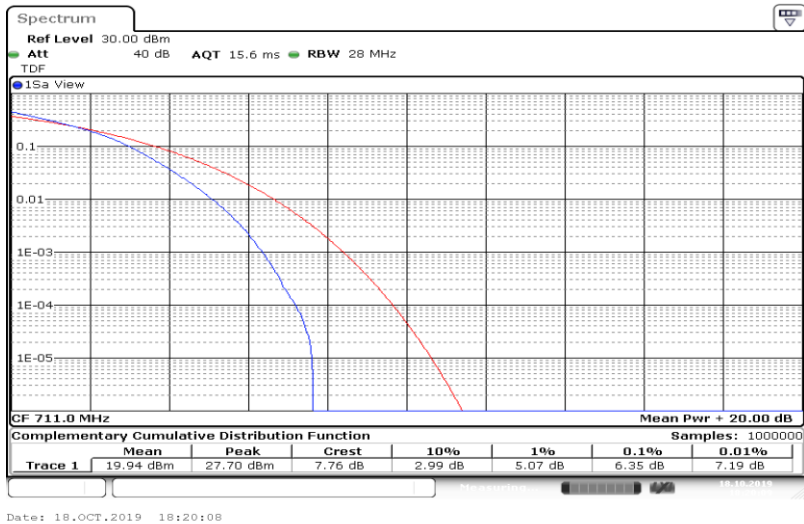
Band12-10MHz-16QAM-23060-50RB#0



Band12-10MHz-16QAM-23095-50RB#0



Band12-10MHz-16QAM-23130-50RB#0



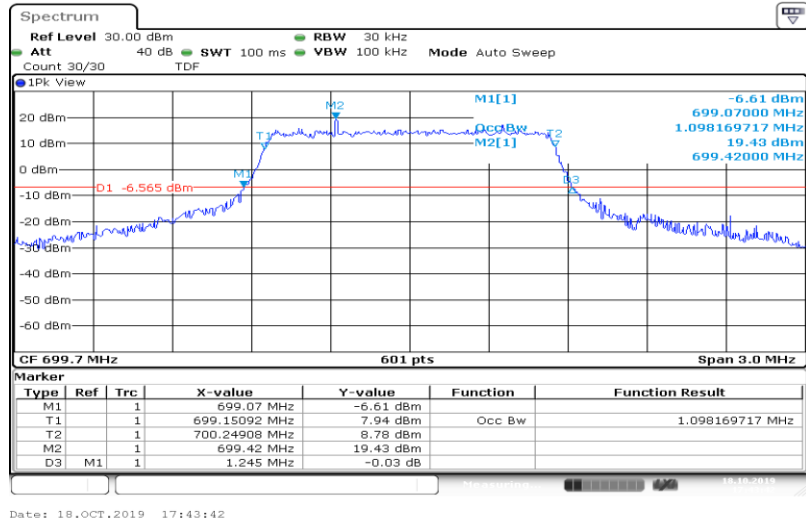
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

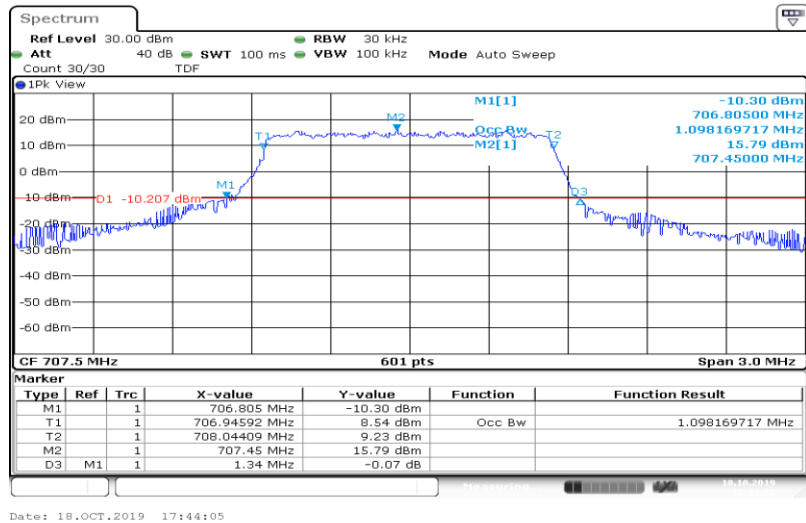
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.098	1.245	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.098	1.340	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.098	1.320	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.098	1.405	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.108	1.320	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.103	1.265	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.715	3.270	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.705	3.010	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.715	3.120	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.725	3.240	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.705	2.960	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.705	2.920	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.515	5.480	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.515	4.870	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.535	5.410	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.535	5.460	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.555	5.400	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.525	5.300	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.985	9.667	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.985	10.767	PASS
Band12	10MHz	QPSK	23130	50RB#0	9.018	10.100	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.985	10.500	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.985	9.600	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.985	9.500	PASS

Test Graphs

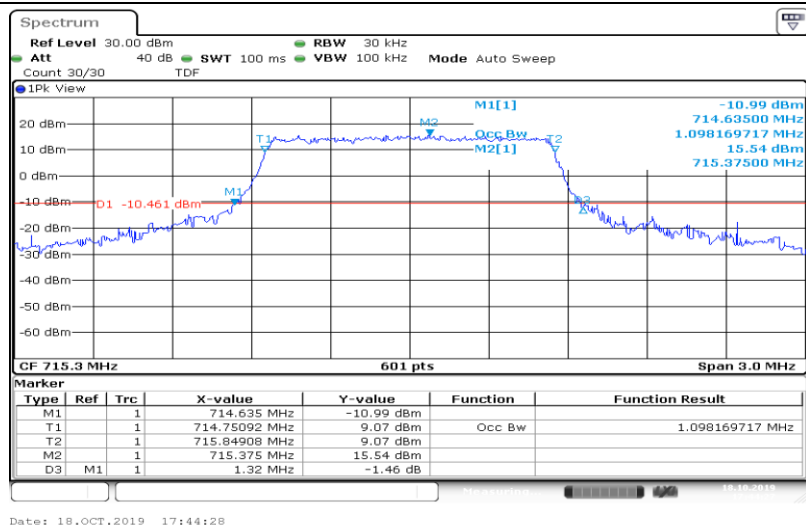
Band12-1.4MHz-QPSK-23017-6RB#0-1.098



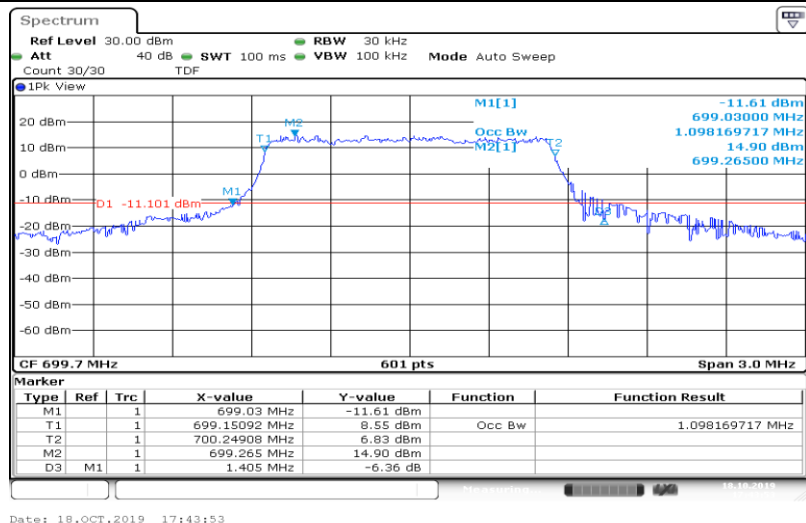
Band12-1.4MHz-QPSK-23095-6RB#0-1.098



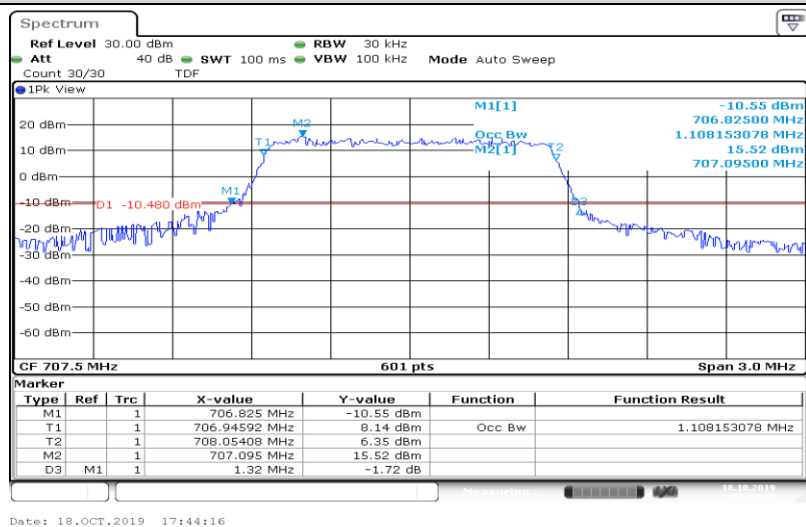
Band12-1.4MHz-QPSK-23173-6RB#0-1.098



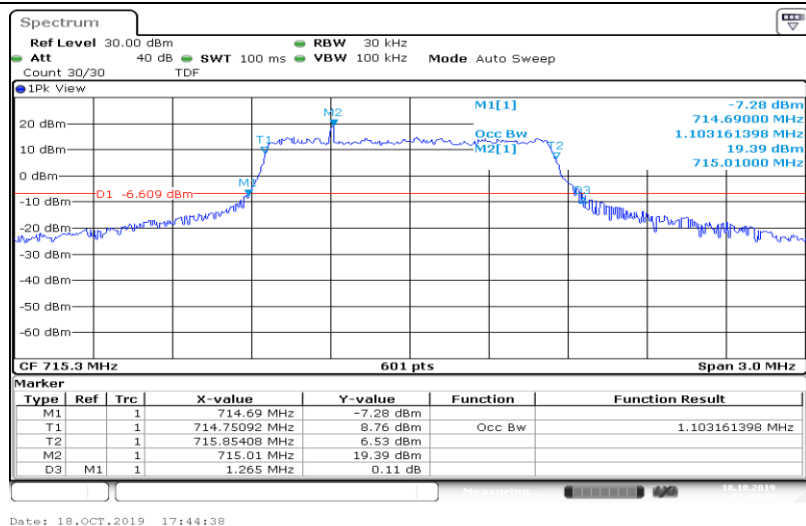
Band12-1.4MHz-16QAM-23017-6RB#0-1.098



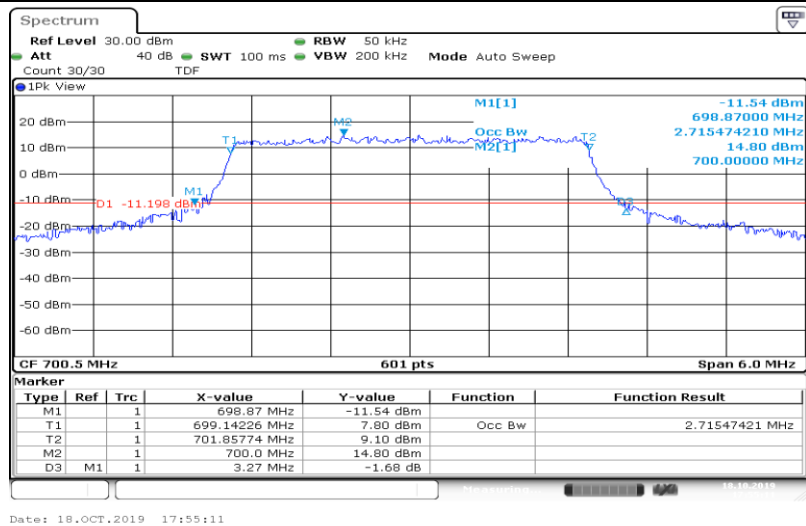
Band12-1.4MHz-16QAM-23095-6RB#0-1.108



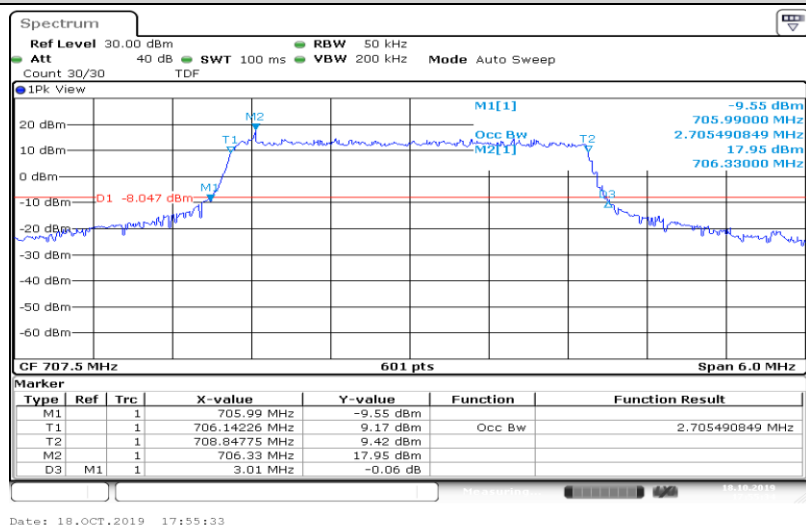
Band12-1.4MHz-16QAM-23173-6RB#0-1.103



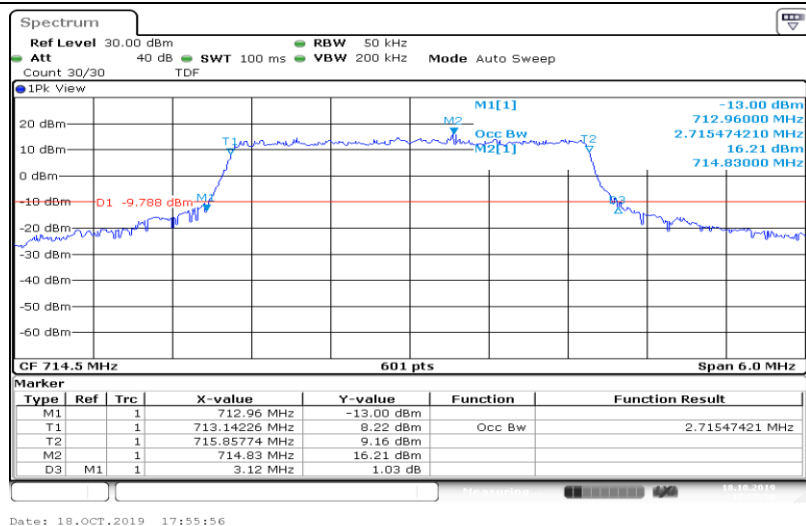
Band12-3MHz-QPSK-23025-15RB#0-2.715



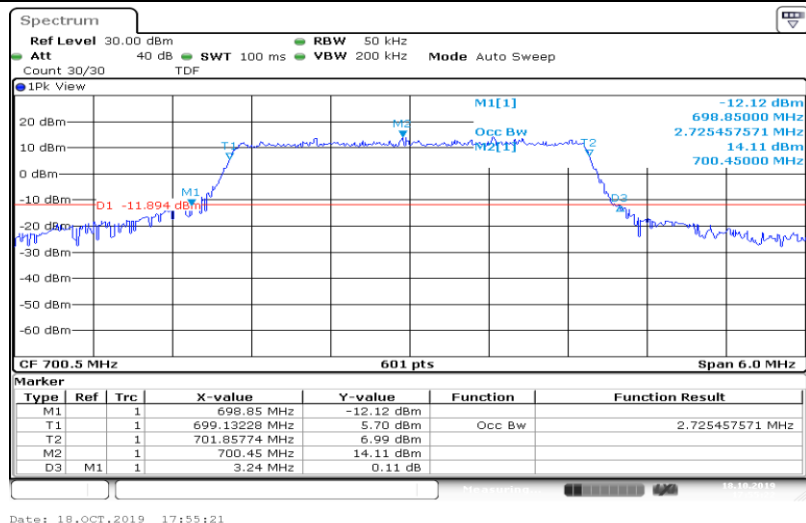
Band12-3MHz-QPSK-23095-15RB#0-2.705



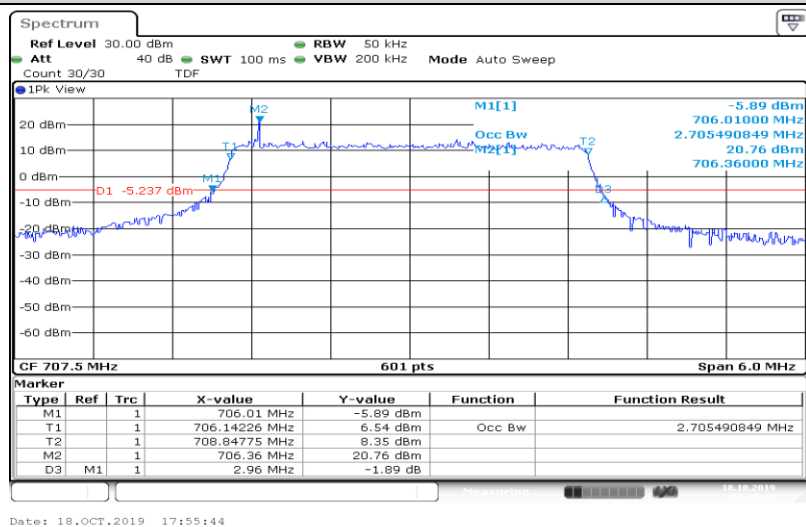
Band12-3MHz-QPSK-23165-15RB#0-2.715



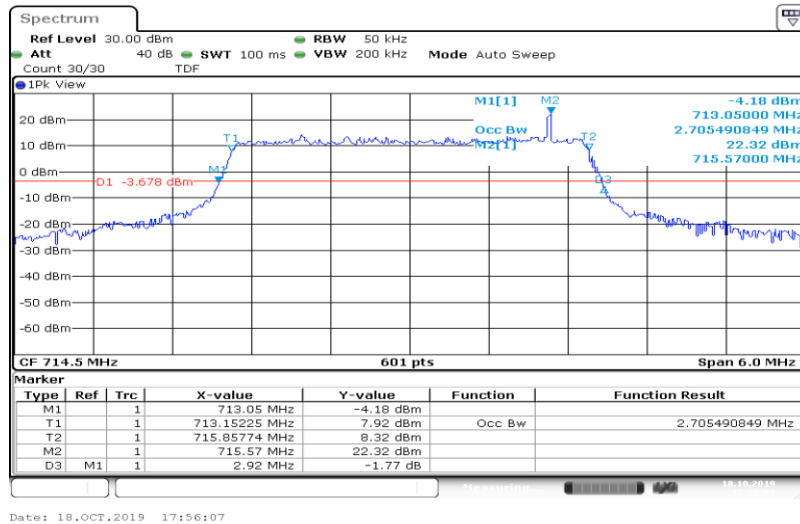
Band12-3MHz-16QAM-23025-15RB#0-2.725



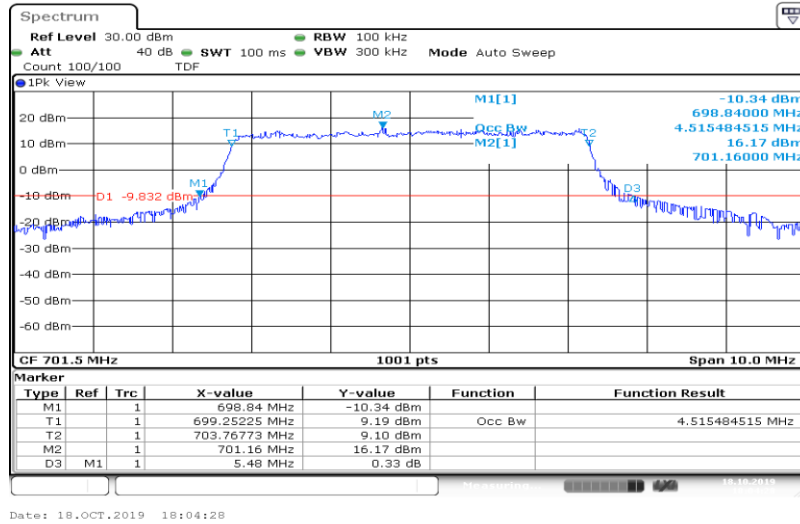
Band12-3MHz-16QAM-23095-15RB#0-2.705



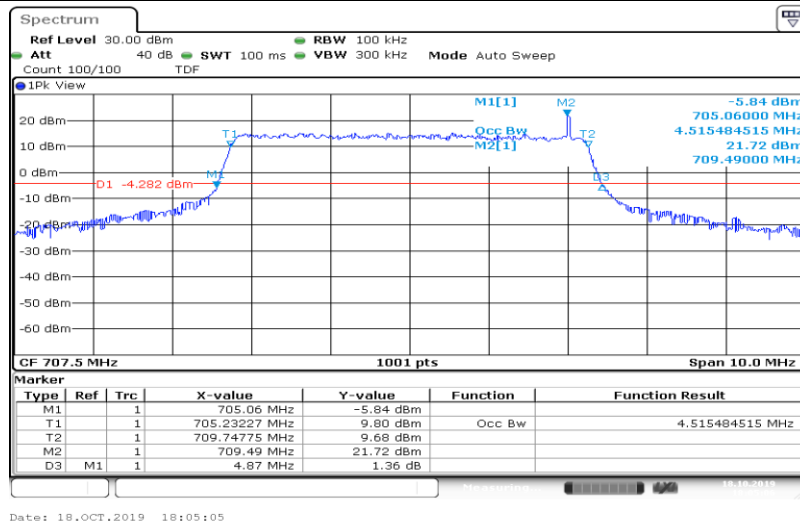
Band12-3MHz-16QAM-23165-15RB#0-2.705



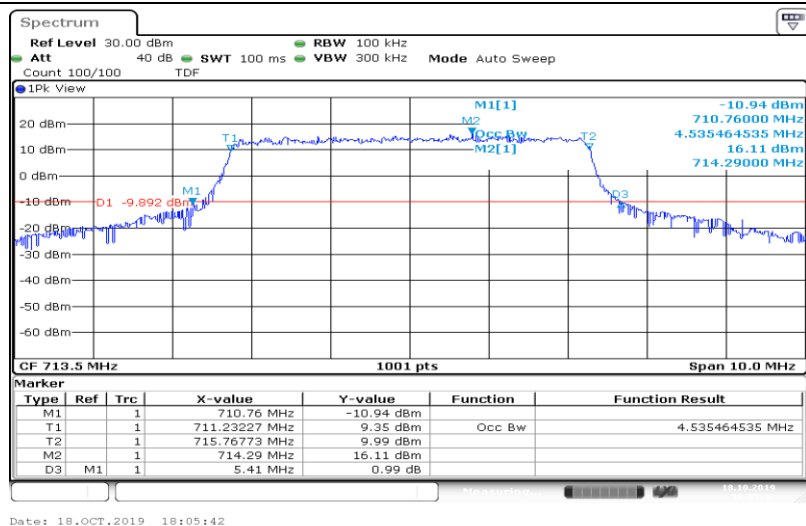
Band12-5MHz-QPSK-23035-25RB#0-4.515



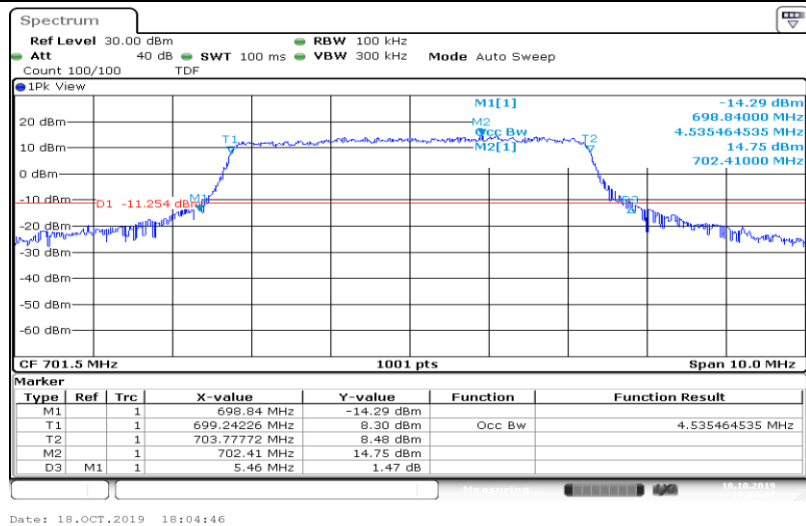
Band12-5MHz-QPSK-23095-25RB#0-4.515



Band12-5MHz-QPSK-23155-25RB#0-4.535



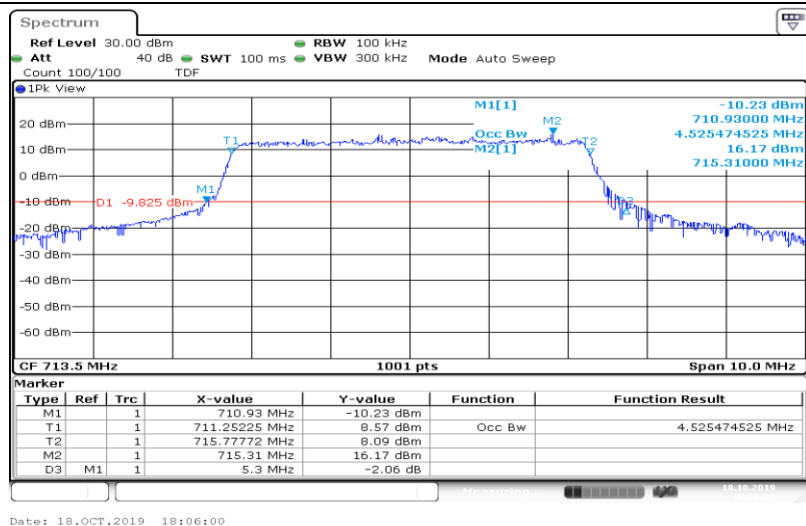
Band12-5MHz-16QAM-23035-25RB#0-4.535



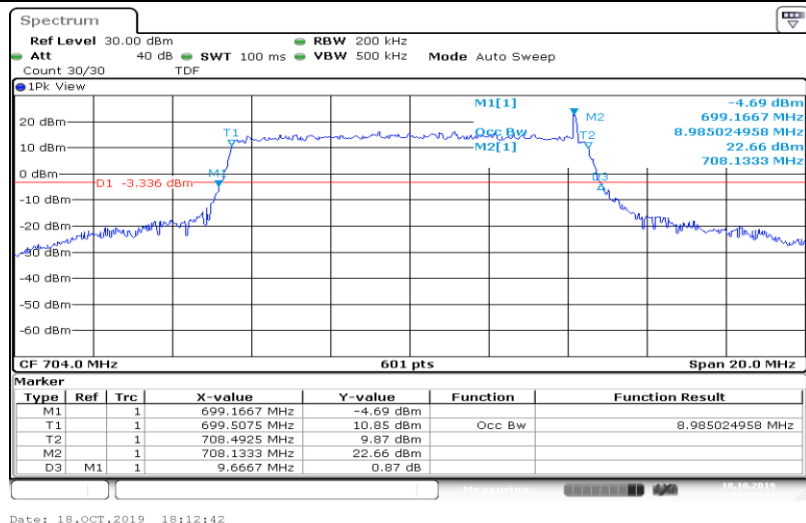
Band12-5MHz-16QAM-23095-25RB#0-4.555



Band12-5MHz-16QAM-23155-25RB#0-4.525



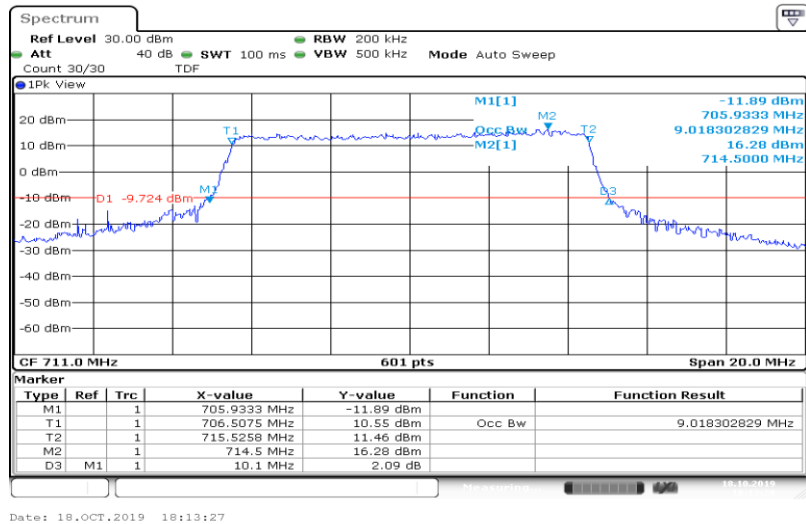
Band12-10MHz-QPSK-23060-50RB#0-8.985



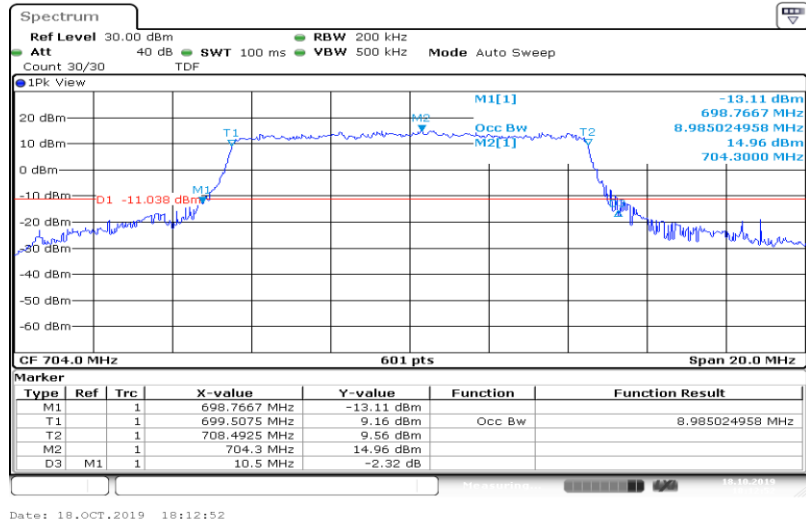
Band12-10MHz-QPSK-23095-50RB#0-8.985



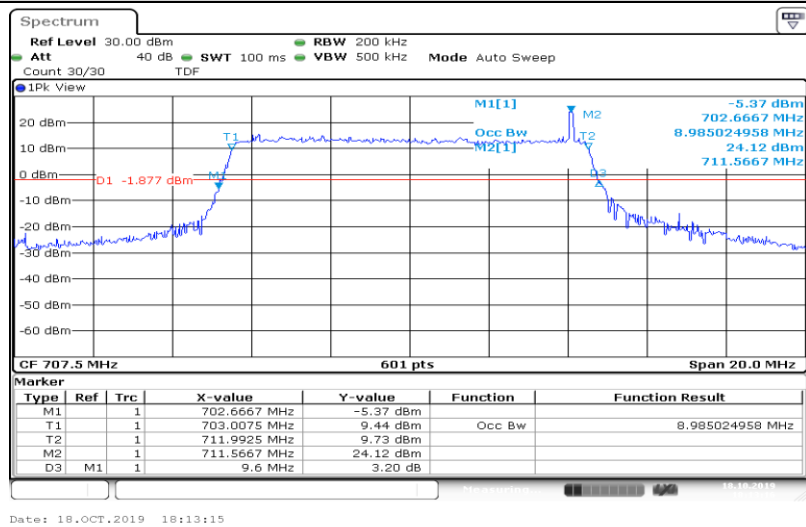
Band12-10MHz-QPSK-23130-50RB#0-9.018



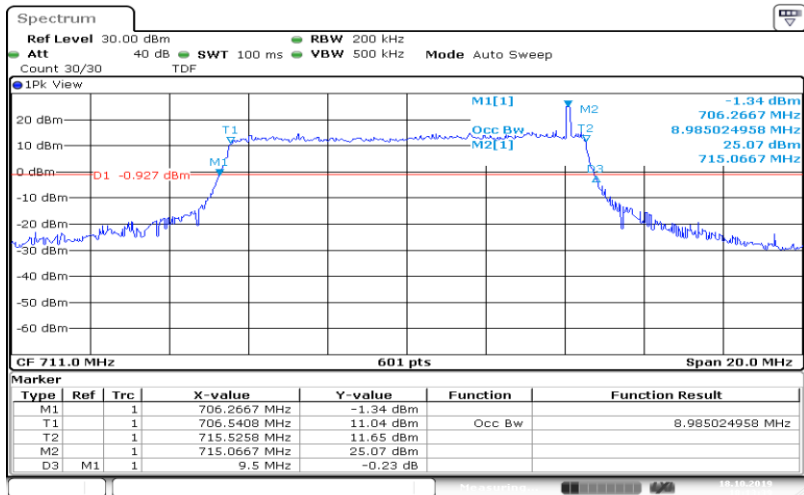
Band12-10MHz-16QAM-23060-50RB#0-8.985



Band12-10MHz-16QAM-23095-50RB#0-8.985



Band12-10MHz-16QAM-23130-50RB#0-8.985



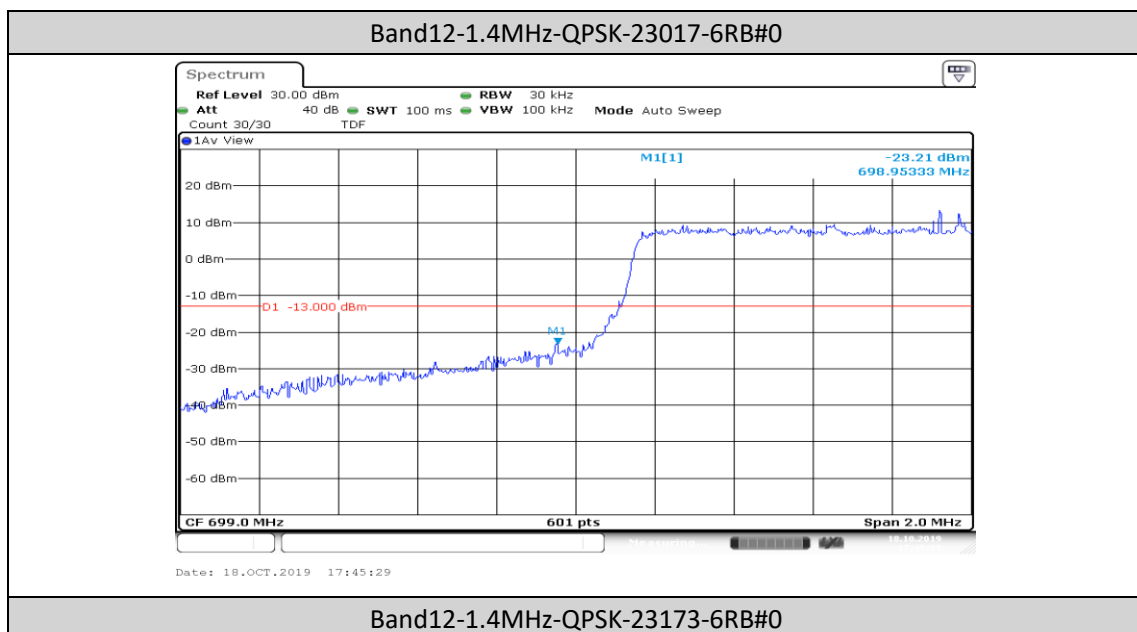
Date: 18.OCT.2019 18:13:38

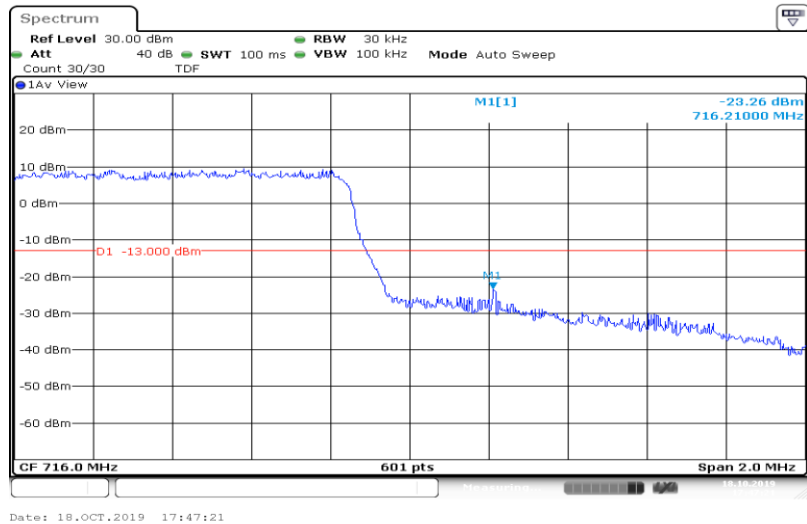
Appendix D: Band Edge

Test Result

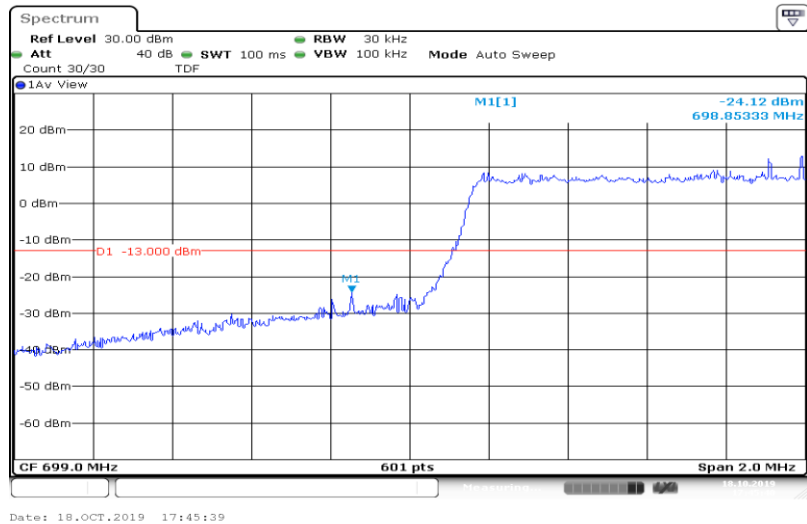
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	-23.21	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	-23.26	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	-24.12	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	-23.36	PASS
Band12	3MHz	QPSK	23025	15RB#0	-21.72	PASS
Band12	3MHz	QPSK	23165	15RB#0	-23.19	PASS
Band12	3MHz	16QAM	23025	15RB#0	-23.26	PASS
Band12	3MHz	16QAM	23165	15RB#0	-23.21	PASS
Band12	5MHz	QPSK	23035	25RB#0	-26.96	PASS
Band12	5MHz	QPSK	23155	25RB#0	-25.22	PASS
Band12	5MHz	16QAM	23035	25RB#0	-28.34	PASS
Band12	5MHz	16QAM	23155	25RB#0	-25.87	PASS
Band12	10MHz	QPSK	23060	50RB#0	-30.95	PASS
Band12	10MHz	QPSK	23130	50RB#0	-27.88	PASS
Band12	10MHz	16QAM	23060	50RB#0	-31.90	PASS
Band12	10MHz	16QAM	23130	50RB#0	-30.11	PASS

Test Graphs

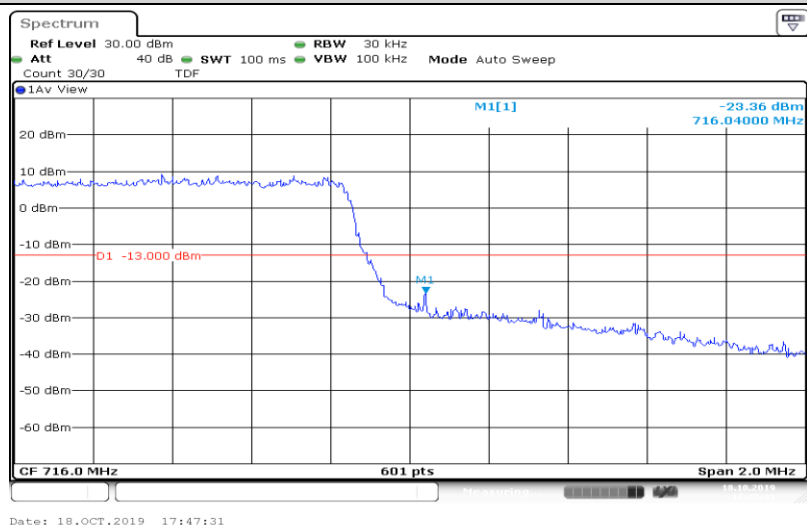




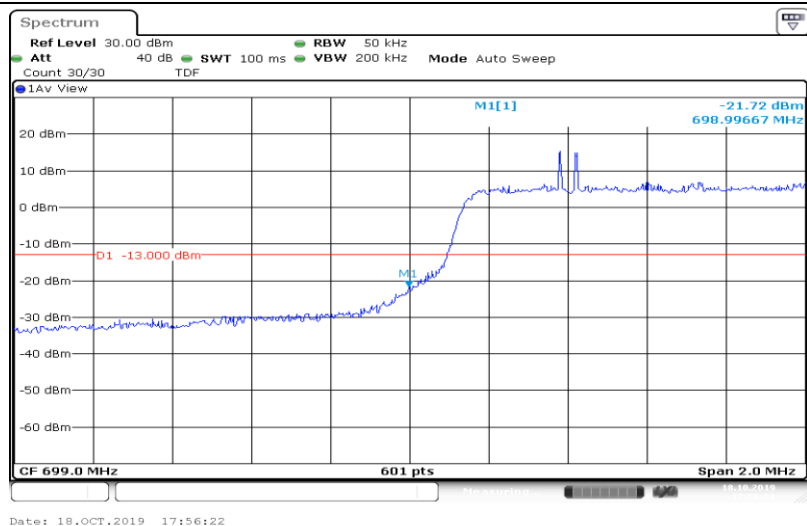
Band12-1.4MHz-16QAM-23017-6RB#0



Band12-1.4MHz-16QAM-23173-6RB#0

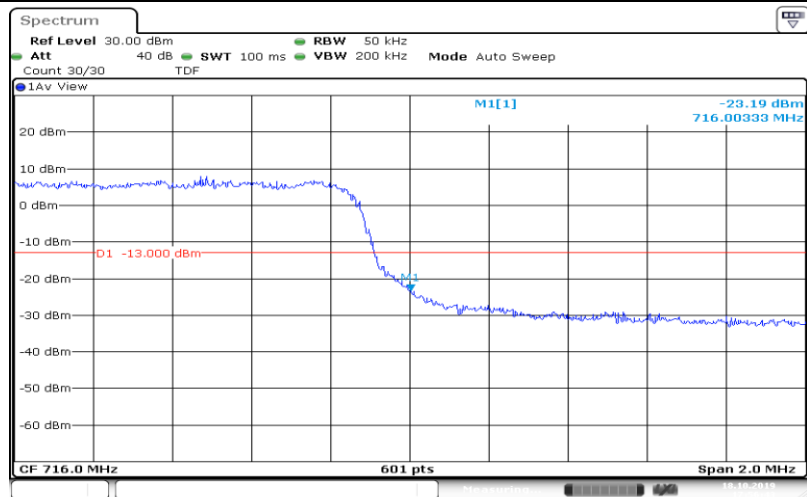


Band12-3MHz-QPSK-23025-15RB#0



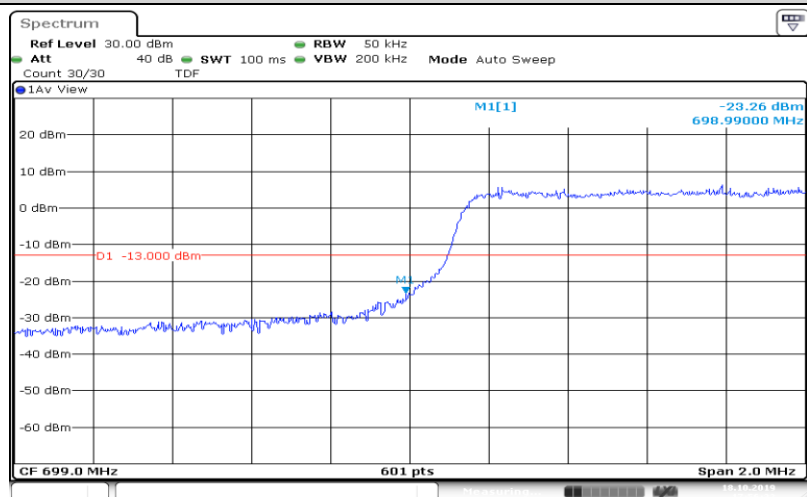
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Band12-3MHz-QPSK-23165-15RB#0



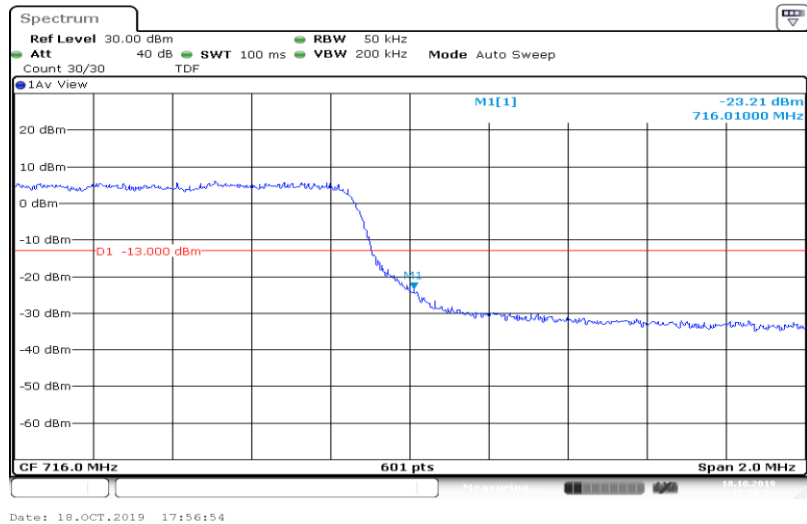
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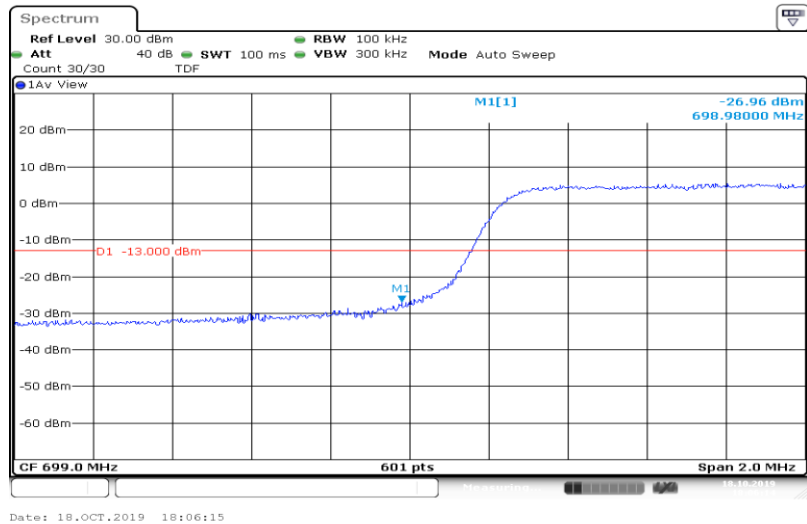


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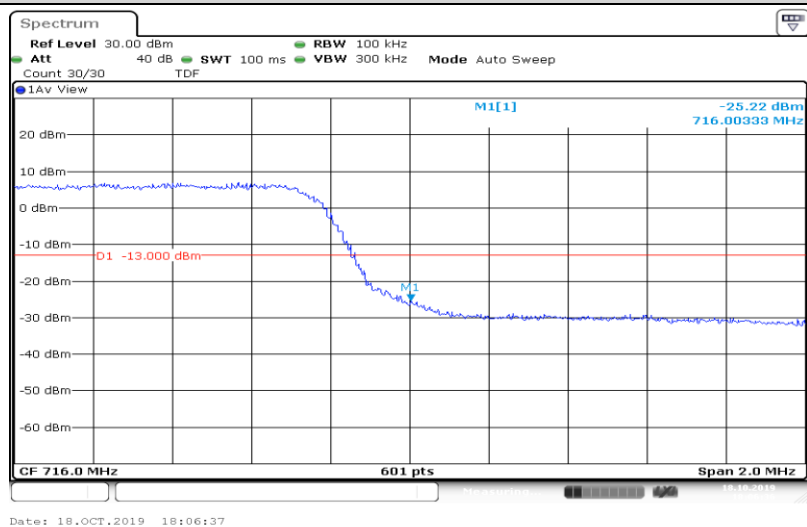
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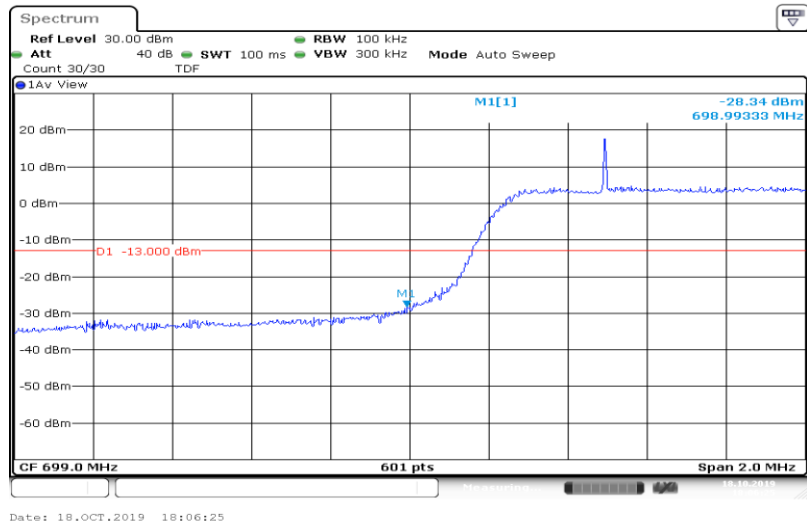
Band12-5MHz-QPSK-23035-25RB#0



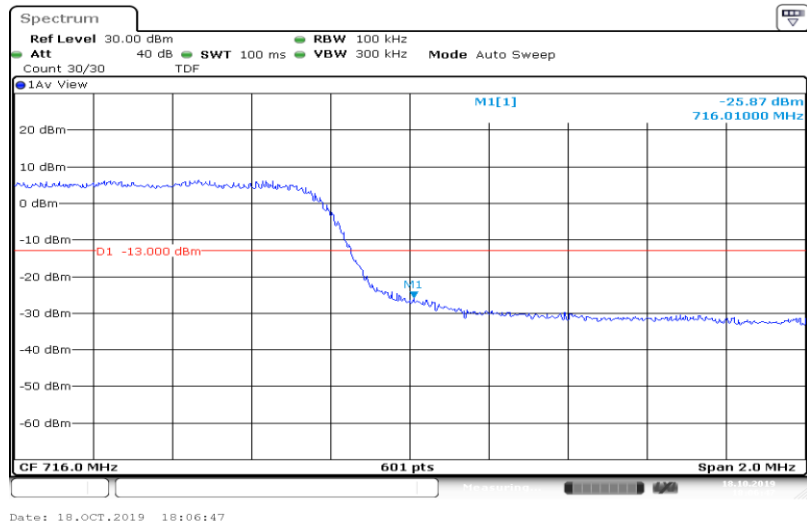
Band12-5MHz-QPSK-23155-25RB#0



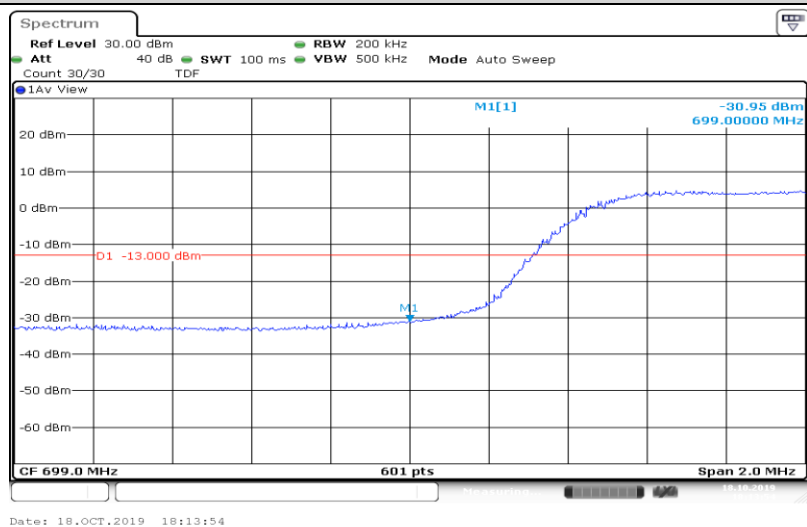
Band12-5MHz-16QAM-23035-25RB#0



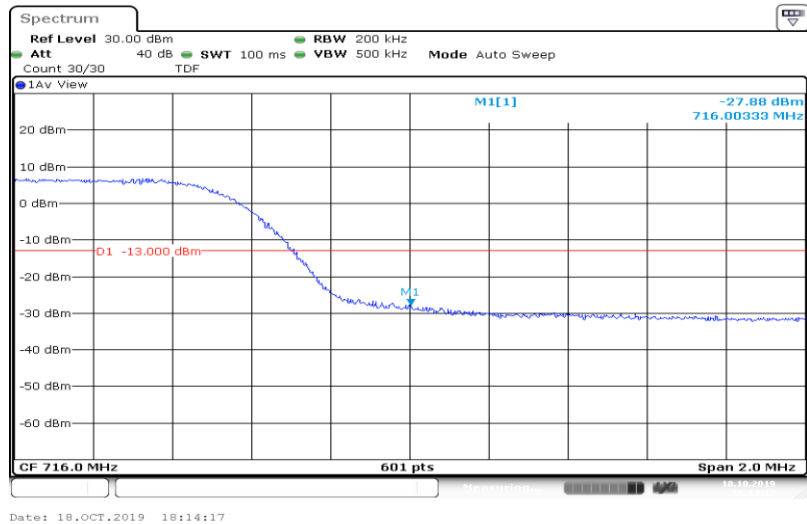
Band12-5MHz-16QAM-23155-25RB#0



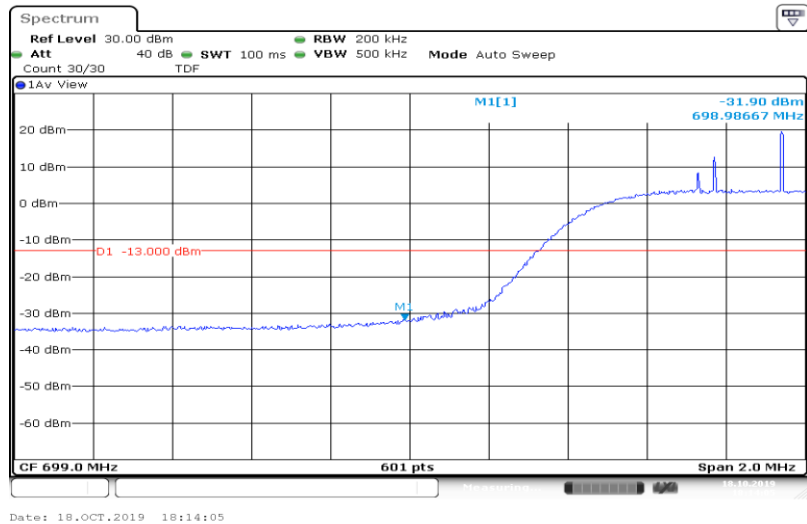
Band12-10MHz-QPSK-23060-50RB#0



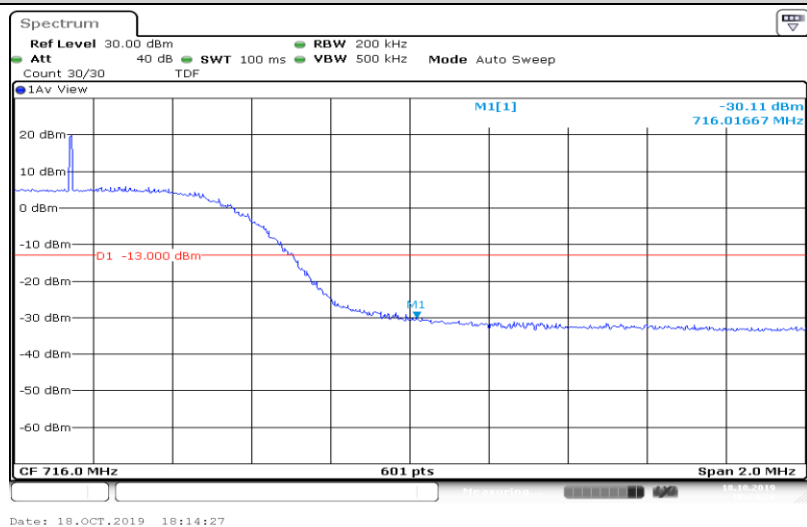
Band12-10MHz-QPSK-23130-50RB#0



Band12-10MHz-16QAM-23060-50RB#0



Band12-10MHz-16QAM-23130-50RB#0



Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band1 2	1.4MHz	QPSK	23017	6RB#0	Range1:0.009~0.15MHz	-54.05	PASS
Band1 2	1.4MHz	QPSK	23017	6RB#0	Range2:0.15~30MHz	-51.53	PASS
Band1 2	1.4MHz	QPSK	23017	6RB#0	Range3:30~1000MHz	-36.92	PASS
Band1 2	1.4MHz	QPSK	23017	6RB#0	Range4:1000~10000MHz	-30.3	PASS
Band1 2	1.4MHz	QPSK	23095	6RB#0	Range1:0.009~0.15MHz	-49.71	PASS
Band1 2	1.4MHz	QPSK	23095	6RB#0	Range2:0.15~30MHz	-55	PASS
Band1 2	1.4MHz	QPSK	23095	6RB#0	Range3:30~1000MHz	-36.8	PASS
Band1 2	1.4MHz	QPSK	23095	6RB#0	Range4:1000~10000MHz	-31.18	PASS
Band1 2	1.4MHz	QPSK	23173	6RB#0	Range1:0.009~0.15MHz	-53.45	PASS
Band1 2	1.4MHz	QPSK	23173	6RB#0	Range2:0.15~30MHz	-52.2	PASS
Band1 2	1.4MHz	QPSK	23173	6RB#0	Range3:30~1000MHz	-37.18	PASS
Band1 2	1.4MHz	QPSK	23173	6RB#0	Range4:1000~10000MHz	-35.22	PASS
Band1 2	1.4MHz	16QAM	23017	6RB#0	Range1:0.009~0.15MHz	-50.8	PASS
Band1 2	1.4MHz	16QAM	23017	6RB#0	Range2:0.15~30MHz	-53.75	PASS
Band1 2	1.4MHz	16QAM	23017	6RB#0	Range3:30~1000MHz	-36.56	PASS
Band1 2	1.4MHz	16QAM	23017	6RB#0	Range4:1000~10000MHz	-28.24	PASS
Band1 2	1.4MHz	16QAM	23095	6RB#0	Range1:0.009~0.15MHz	-50.26	PASS
Band1	1.4MHz	16QAM	23095	6RB#0	Range2:0.15~30MHz	-53.0	PASS

2						9	
Band1 2	1.4MHz	16QAM	23095	6RB#0	Range3:30~1000MHz	-36.7 6	PASS
Band1 2	1.4MHz	16QAM	23095	6RB#0	Range4:1000~10000M Hz	-34.5 5	PASS
Band1 2	1.4MHz	16QAM	23173	6RB#0	Range1:0.009~0.15MH z	-53.8 7	PASS
Band1 2	1.4MHz	16QAM	23173	6RB#0	Range2:0.15~30MHz	-54.1 2	PASS
Band1 2	1.4MHz	16QAM	23173	6RB#0	Range3:30~1000MHz	-36.6 2	PASS
Band1 2	1.4MHz	16QAM	23173	6RB#0	Range4:1000~10000M Hz	-34.0 7	PASS
Band1 2	3MHz	QPSK	23025	15RB#0	Range1:0.009~0.15MH z	-51.0 4	PASS
Band1 2	3MHz	QPSK	23025	15RB#0	Range2:0.15~30MHz	-58.0 8	PASS
Band1 2	3MHz	QPSK	23025	15RB#0	Range3:30~1000MHz	-37.2 3	PASS
Band1 2	3MHz	QPSK	23025	15RB#0	Range4:1000~10000M Hz	-34.2 9	PASS
Band1 2	3MHz	QPSK	23095	15RB#0	Range1:0.009~0.15MH z	-50.3 9	PASS
Band1 2	3MHz	QPSK	23095	15RB#0	Range2:0.15~30MHz	-57.8	PASS
Band1 2	3MHz	QPSK	23095	15RB#0	Range3:30~1000MHz	-36.7	PASS
Band1 2	3MHz	QPSK	23095	15RB#0	Range4:1000~10000M Hz	-36.8 9	PASS
Band1 2	3MHz	QPSK	23165	15RB#0	Range1:0.009~0.15MH z	-51.8 9	PASS
Band1 2	3MHz	QPSK	23165	15RB#0	Range2:0.15~30MHz	-57.9 3	PASS
Band1 2	3MHz	QPSK	23165	15RB#0	Range3:30~1000MHz	-35.4 3	PASS
Band1 2	3MHz	QPSK	23165	15RB#0	Range4:1000~10000M Hz	-37.9 2	PASS
Band1 2	3MHz	16QAM	23025	15RB#0	Range1:0.009~0.15MH z	-46.2 9	PASS
Band1 2	3MHz	16QAM	23025	15RB#0	Range2:0.15~30MHz	-58.8 4	PASS
Band1 2	3MHz	16QAM	23025	15RB#0	Range3:30~1000MHz	-35.6	PASS