

Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

LTE FDD Band 4				
TX Channel Bandwidth	RB Size/Offset	Frequency (MHz)	Average Power [dBm]	
			QPSK	16QAM
1.4 MHz	1 RB low	1710.7	22.52	21.94
		1732.5	23.17	22.51
		1754.3	23.30	22.79
	1 RB mid	1710.7	22.14	21.72
		1732.5	23.21	22.76
		1754.3	22.20	21.81
	1 RB high	1710.7	23.12	22.65
		1732.5	23.45	22.84
		1754.3	22.00	21.47
	50% RB low	1710.7	21.62	21.18
		1732.5	21.76	21.32
		1754.3	23.41	22.74
	50% RB mid	1710.7	21.72	21.14
		1732.5	23.28	22.69
		1754.3	21.70	20.92
	50% RB High	1710.7	23.05	22.23
		1732.5	21.89	21.41
		1754.3	23.20	22.42
	100% RB	1710.7	23.13	22.56
		1732.5	22.65	22.16
		1754.3	23.17	22.36
3 MHz	1 RB low	1711.5	22.37	21.65
		1732.5	21.78	21.36
		1753.5	23.38	22.70
	1 RB mid	1711.5	21.84	21.20
		1732.5	23.49	23.12
		1753.5	23.20	22.68
	1 RB high	1711.5	21.75	21.38
		1732.5	22.84	22.29
		1753.5	23.23	22.47
	50% RB low	1711.5	22.97	22.29
		1732.5	21.50	20.68
		1753.5	21.92	21.09
	50% RB mid	1711.5	22.63	21.82
		1732.5	22.08	21.51
		1753.5	22.97	22.58

	50% RB High	1711.5	22.79	22.35
		1732.5	22.36	21.84
		1753.5	22.38	21.64
	100% RB	1711.5	22.78	22.27
		1732.5	22.10	21.71
		1753.5	22.45	21.61
5 MHz	1 RB low	1712.5	21.75	20.94
		1732.5	23.36	22.81
		1752.5	21.57	21.13
	1 RB mid	1712.5	22.86	22.30
		1732.5	22.84	22.03
		1752.5	21.82	21.20
	1 RB high	1712.5	22.00	21.22
		1732.5	22.04	21.43
		1752.5	21.95	21.17
	50% RB low	1712.5	22.94	22.16
		1732.5	21.55	21.11
		1752.5	23.08	22.29
	50% RB mid	1712.5	22.09	21.31
		1732.5	23.12	22.68
		1752.5	21.64	21.10
	50% RB High	1712.5	21.80	21.00
		1732.5	22.16	21.48
		1752.5	23.23	22.44
	100% RB	1712.5	22.44	21.70
		1732.5	23.25	22.64
		1752.5	22.70	22.02
10 MHz	1 RB low	1715.0	21.54	21.17
		1732.5	22.70	22.31
		1750.0	23.07	22.39
	1 RB mid	1715.0	22.19	21.59
		1732.5	23.24	22.79
		1750.0	22.63	21.92
	1 RB high	1715.0	22.18	21.75
		1732.5	22.87	22.26
		1750.0	23.11	22.37
	50% RB low	1715.0	21.95	21.59
		1732.5	22.65	22.20
		1750.0	22.83	22.22
	50% RB mid	1715.0	23.08	22.40
		1732.5	23.46	22.74
		1750.0	22.65	22.00
	50% RB High	1715.0	23.06	22.45

	100% RB	1732.5	22.74	22.13
		1750.0	21.56	21.07
		1715.0	22.77	21.99
		1732.5	22.42	21.69
		1750.0	23.03	22.37
15 MHz	1 RB low	1717.5	23.47	22.92
		1732.5	22.79	22.19
		1747.5	22.04	21.56
	1 RB mid	1717.5	22.18	21.42
		1732.5	22.05	21.24
		1747.5	22.36	21.98
	1 RB high	1717.5	21.96	21.19
		1732.5	22.22	21.75
		1747.5	22.07	21.26
	50% RB low	1717.5	21.71	21.23
		1732.5	22.54	22.04
		1747.5	23.20	22.56
	50% RB mid	1717.5	23.15	22.58
		1732.5	22.11	21.40
		1747.5	22.55	21.91
	50% RB High	1717.5	23.12	22.63
		1732.5	21.89	21.48
		1747.5	22.90	22.45
	100% RB	1717.5	21.78	21.25
		1732.5	22.17	21.66
		1747.5	22.47	21.62
20 MHz	1 RB low	1720.0	21.93	21.22
		1732.5	22.05	21.57
		1745.0	22.19	21.60
	1 RB mid	1720.0	21.55	20.71
		1732.5	22.66	22.30
		1745.0	22.45	22.03
	1 RB high	1720.0	23.29	22.85
		1732.5	21.72	20.96
		1745.0	23.49	22.76
	50% RB low	1720.0	22.55	22.19
		1732.5	22.13	21.47
		1745.0	22.14	21.79
	50% RB mid	1720.0	23.49	22.82
		1732.5	21.55	20.86
		1745.0	22.99	22.14
	50% RB High	1720.0	21.82	21.09
		1732.5	21.80	21.21

		1745.0	22.34	21.95
	100% RB	1720.0	22.38	21.65
		1732.5	23.07	22.67
		1745.0	22.22	21.72

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

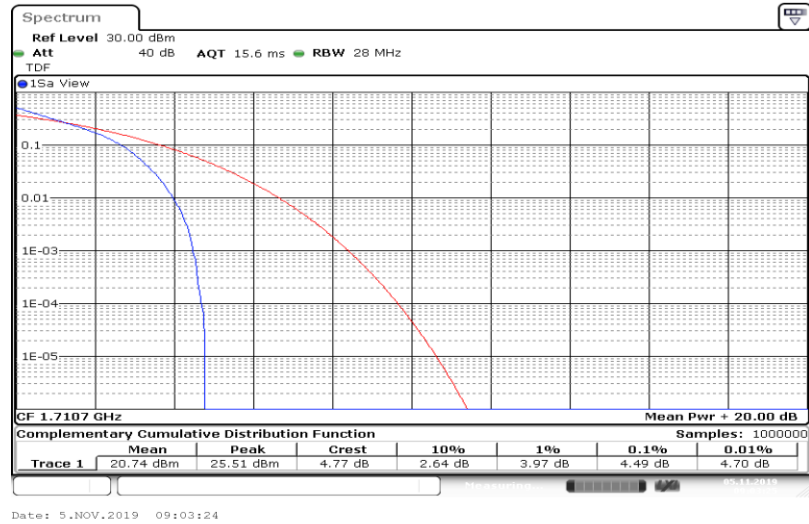
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	4.49	13	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	4.67	13	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	4.61	13	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	5.57	13	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	5.57	13	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	5.48	13	PASS
Band4	3MHz	QPSK	19965	15RB#0	4.99	13	PASS
Band4	3MHz	QPSK	20175	15RB#0	4.96	13	PASS
Band4	3MHz	QPSK	20385	15RB#0	4.96	13	PASS
Band4	3MHz	16QAM	19965	15RB#0	6.03	13	PASS
Band4	3MHz	16QAM	20175	15RB#0	5.83	13	PASS
Band4	3MHz	16QAM	20385	15RB#0	5.83	13	PASS
Band4	5MHz	QPSK	19975	25RB#0	5.10	13	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.87	13	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.96	13	PASS
Band4	5MHz	16QAM	19975	25RB#0	5.91	13	PASS
Band4	5MHz	16QAM	20175	25RB#0	5.74	13	PASS
Band4	5MHz	16QAM	20375	25RB#0	5.88	13	PASS
Band4	10MHz	QPSK	20000	50RB#0	5.04	13	PASS
Band4	10MHz	QPSK	20175	50RB#0	4.99	13	PASS
Band4	10MHz	QPSK	20350	50RB#0	5.01	13	PASS
Band4	10MHz	16QAM	20000	50RB#0	5.94	13	PASS
Band4	10MHz	16QAM	20175	50RB#0	5.88	13	PASS
Band4	10MHz	16QAM	20350	50RB#0	5.88	13	PASS
Band4	15MHz	QPSK	20025	75RB#0	5.28	13	PASS
Band4	15MHz	QPSK	20175	75RB#0	5.19	13	PASS
Band4	15MHz	QPSK	20325	75RB#0	5.25	13	PASS
Band4	15MHz	16QAM	20025	75RB#0	6.06	13	PASS
Band4	15MHz	16QAM	20175	75RB#0	5.94	13	PASS
Band4	15MHz	16QAM	20325	75RB#0	5.97	13	PASS
Band4	20MHz	QPSK	20050	100RB#0	5.13	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	4.87	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	4.87	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.83	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.80	13	PASS

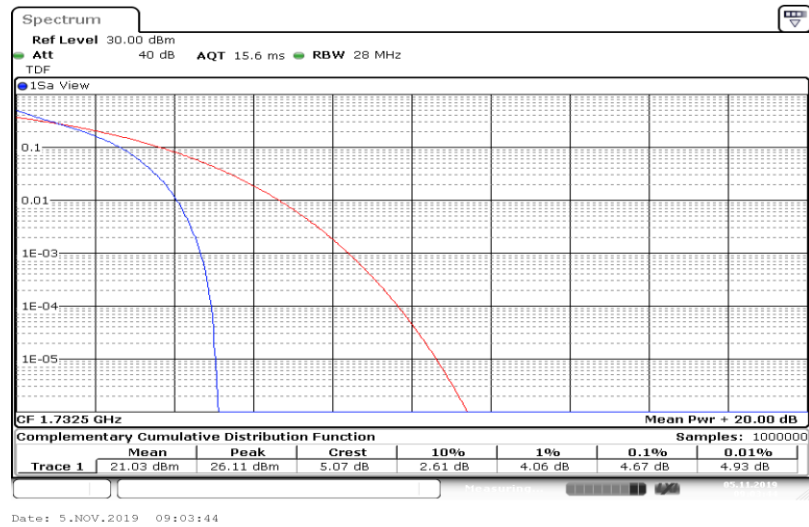
Band4	20MHz	16QAM	20300	100RB#0	5.86	13	PASS
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Test Graphs

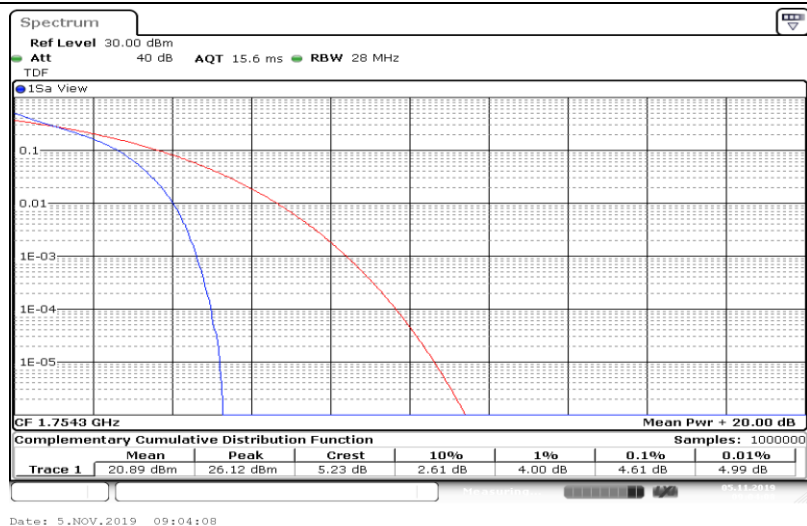
Band4-1.4MHz-QPSK-19957-6RB#0



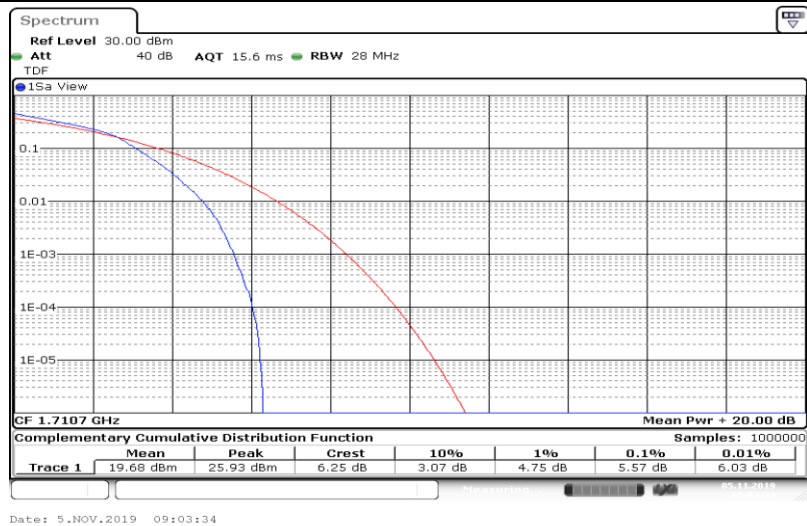
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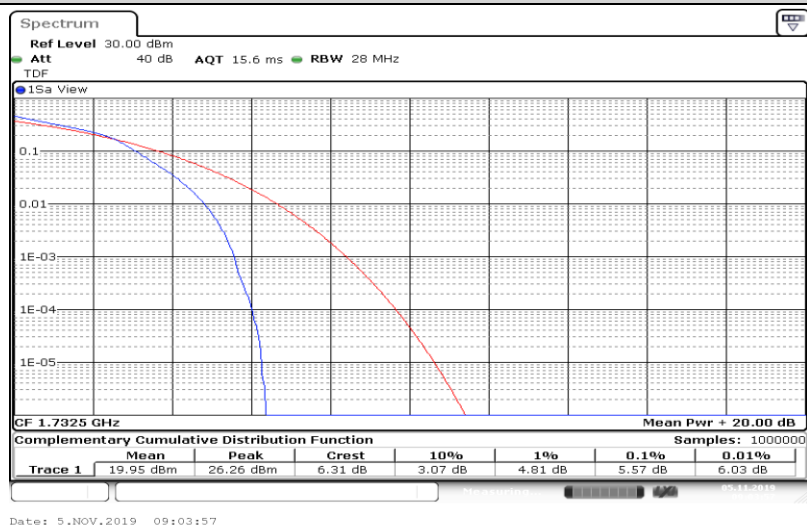
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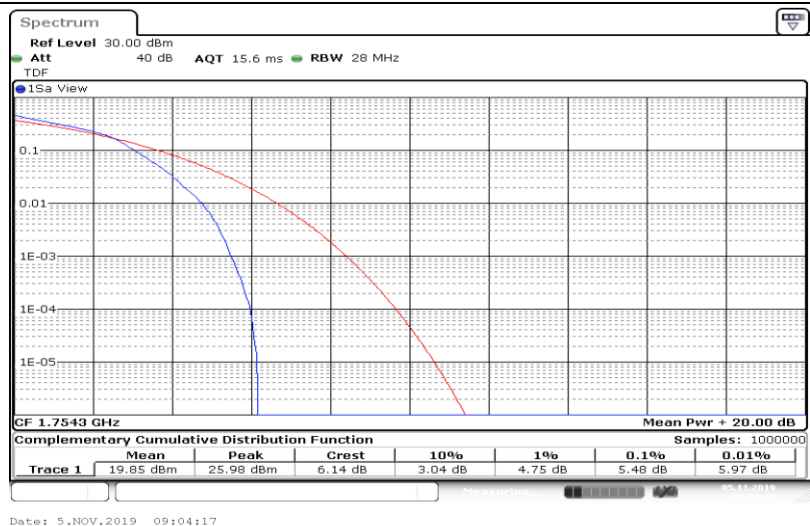
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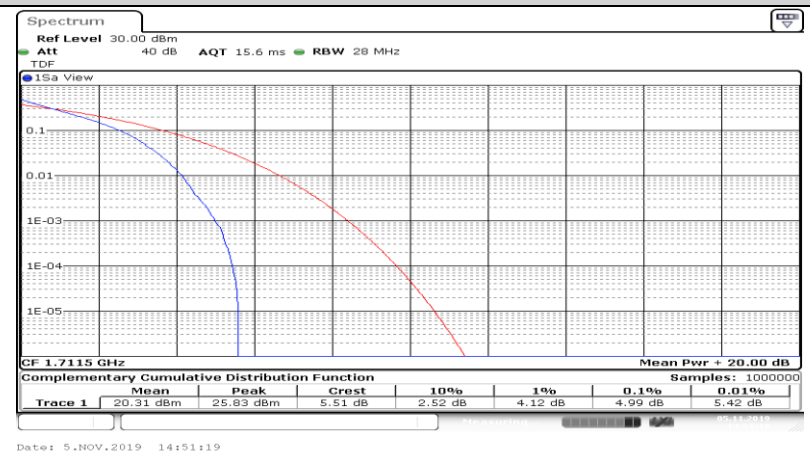
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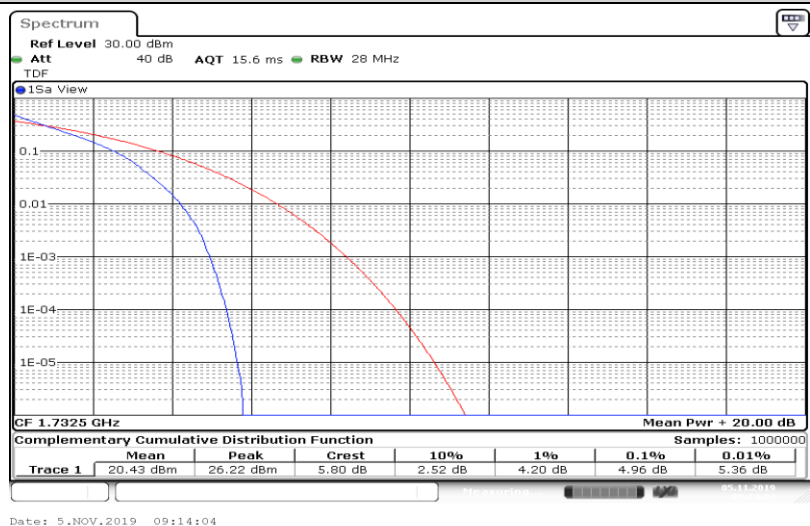
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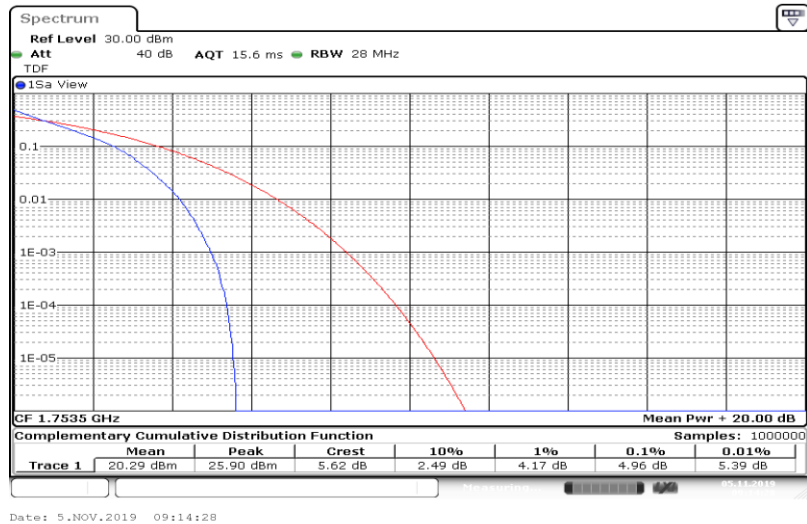
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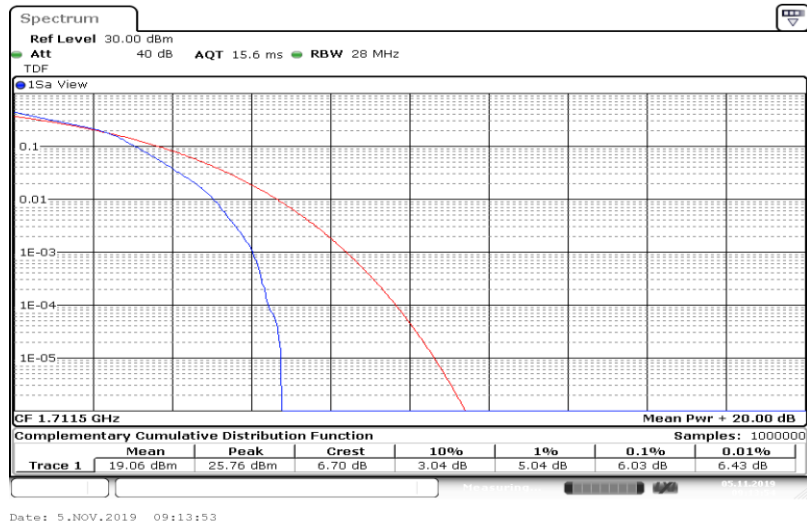
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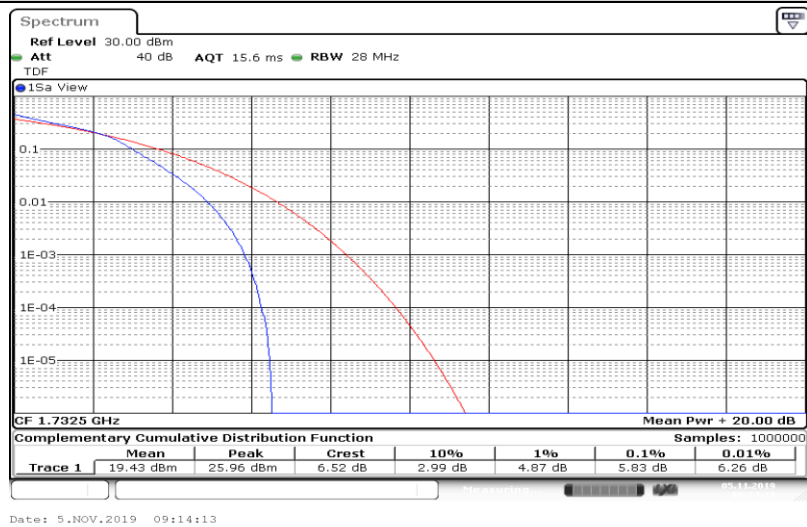
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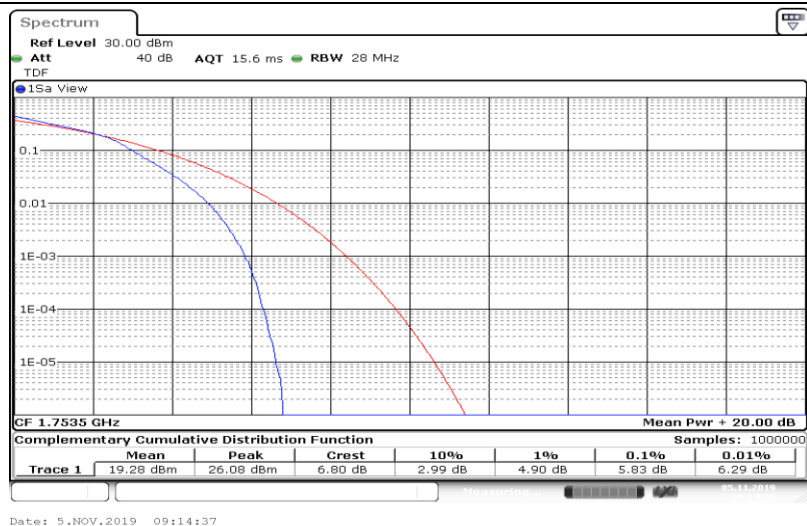
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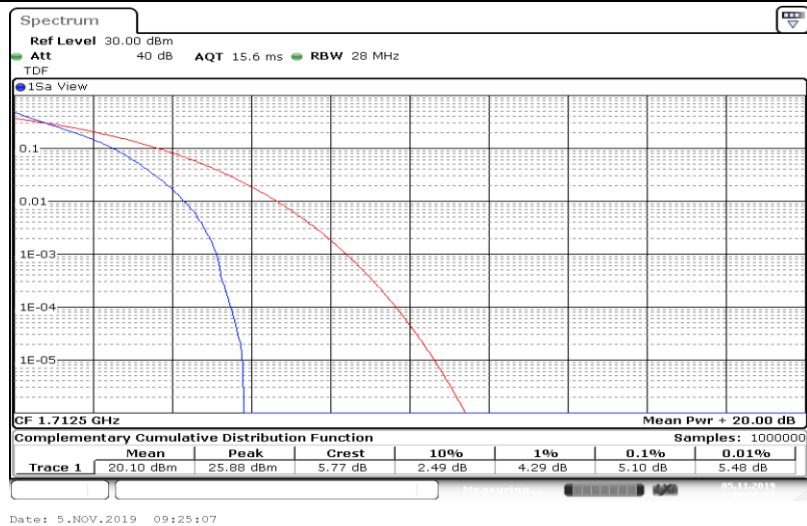
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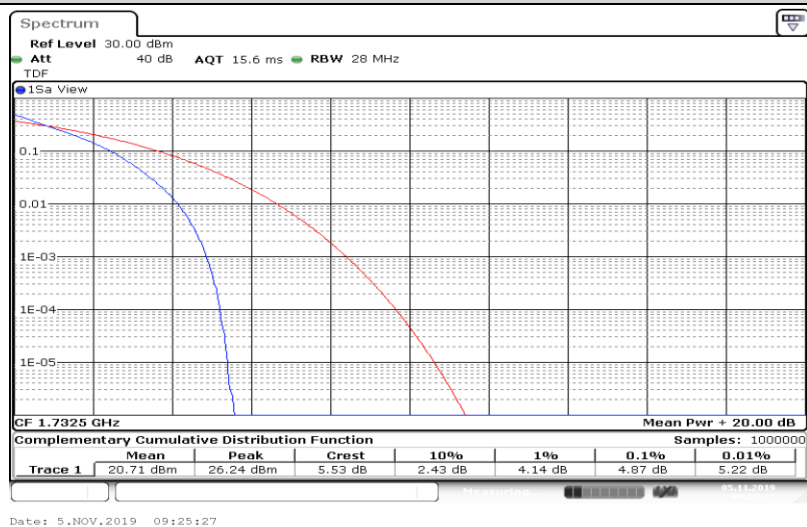
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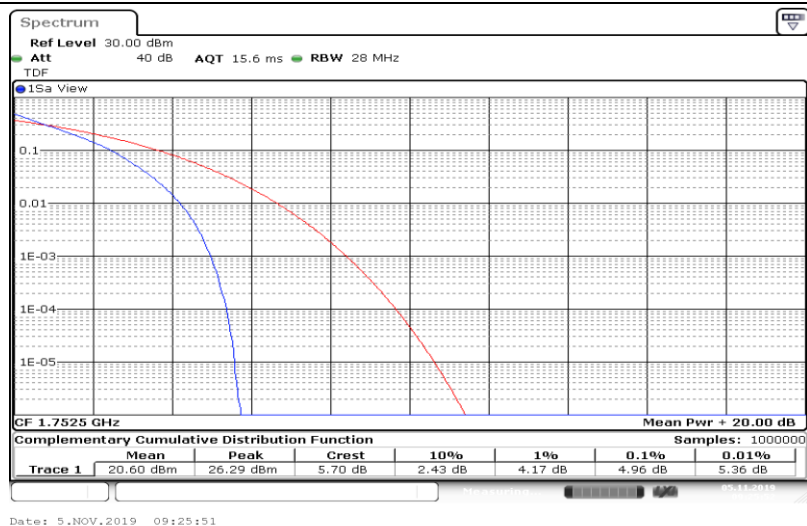
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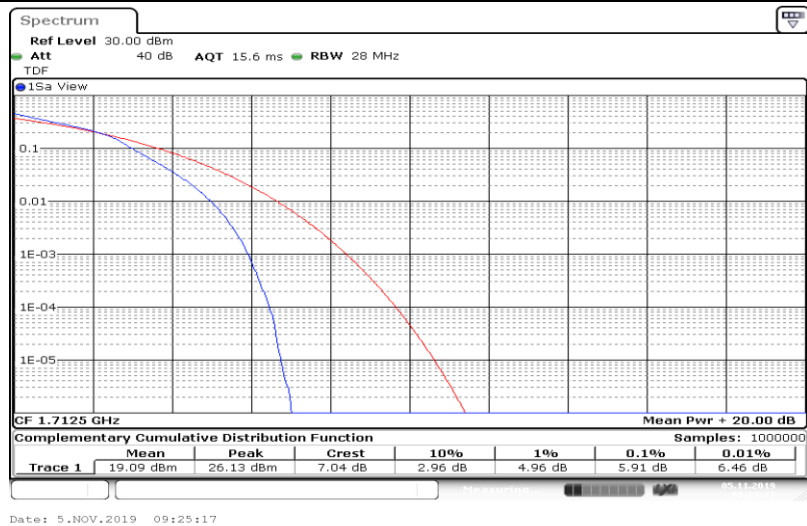
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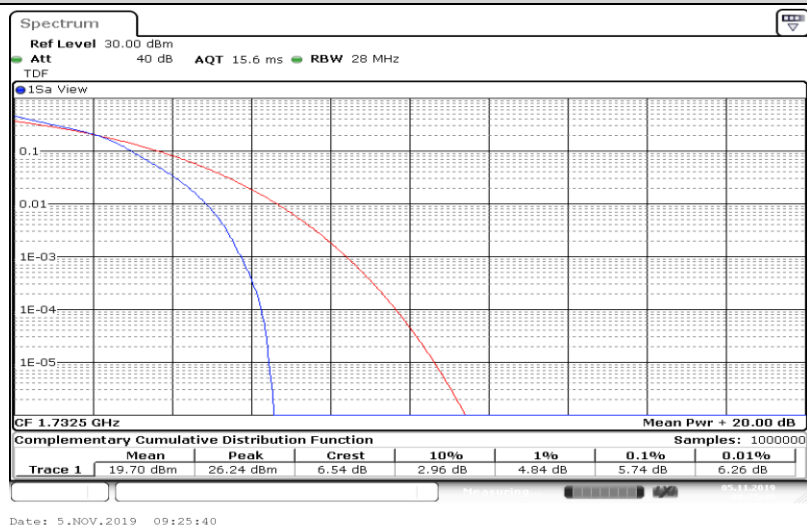
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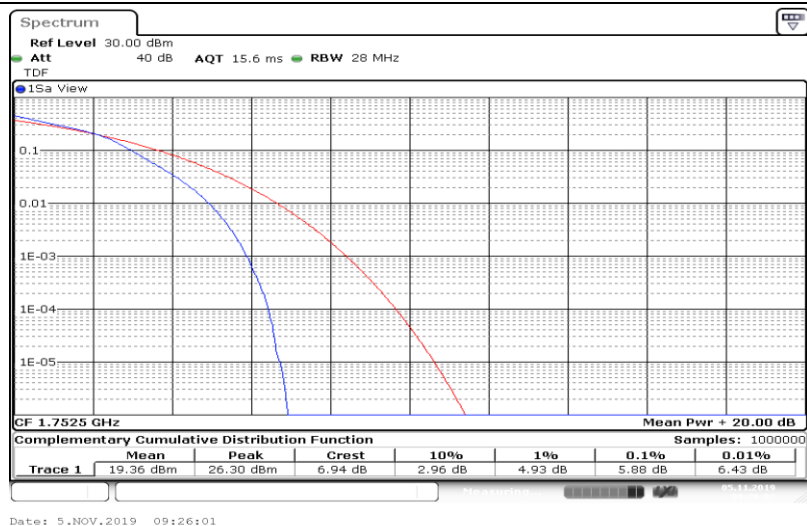
Band4-5MHz-16QAM-19975-25RB#0



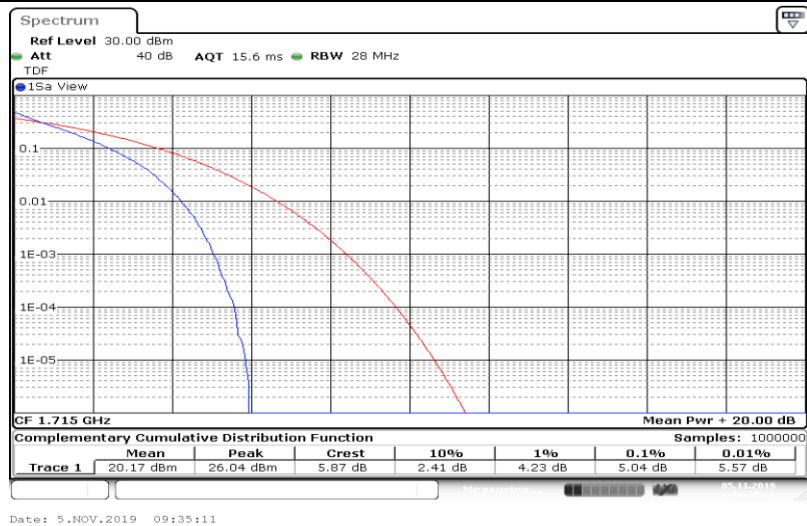
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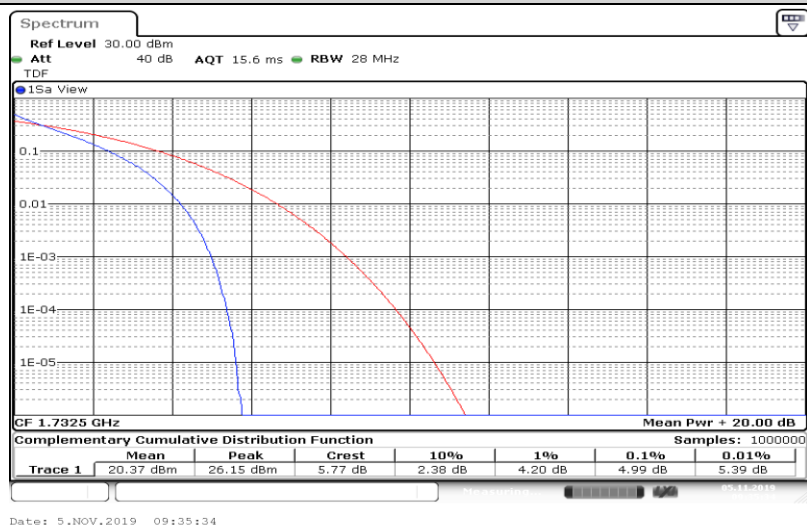
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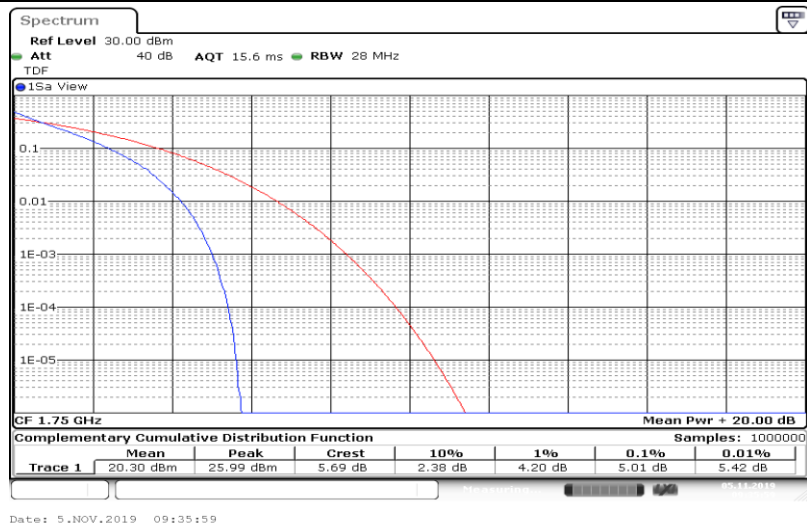
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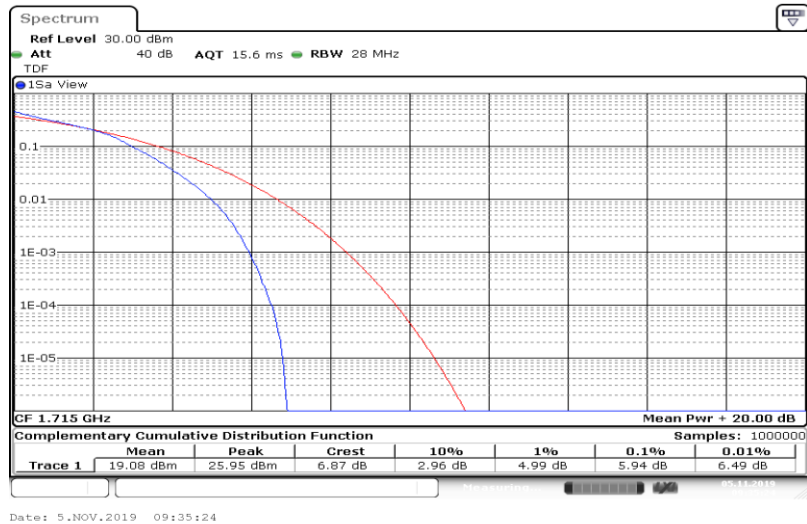
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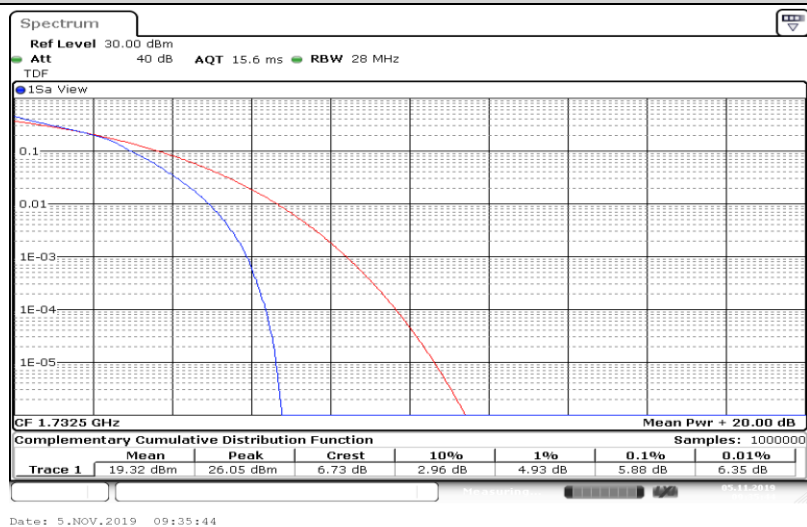
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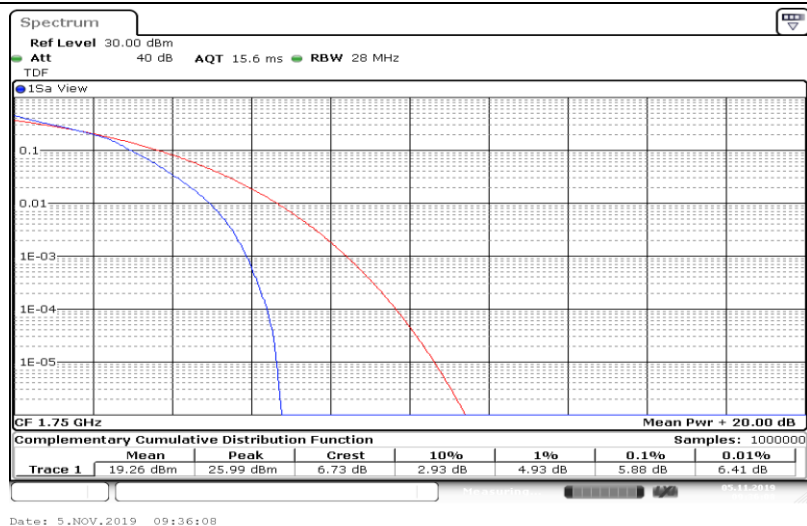
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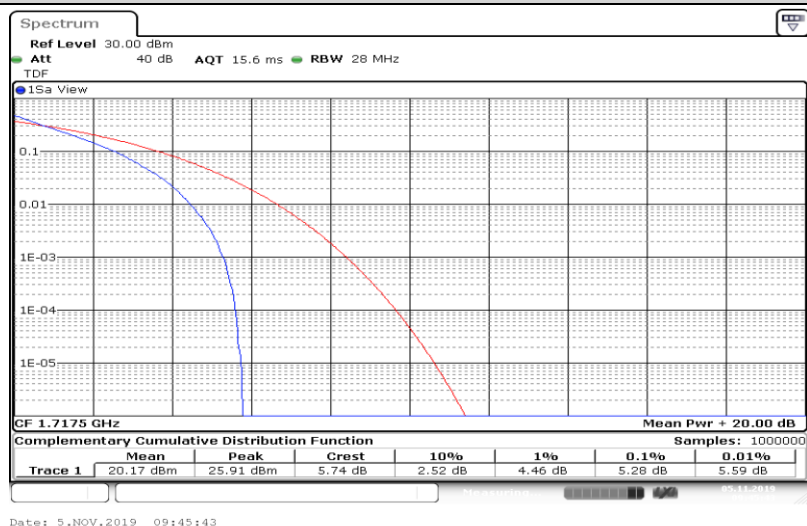
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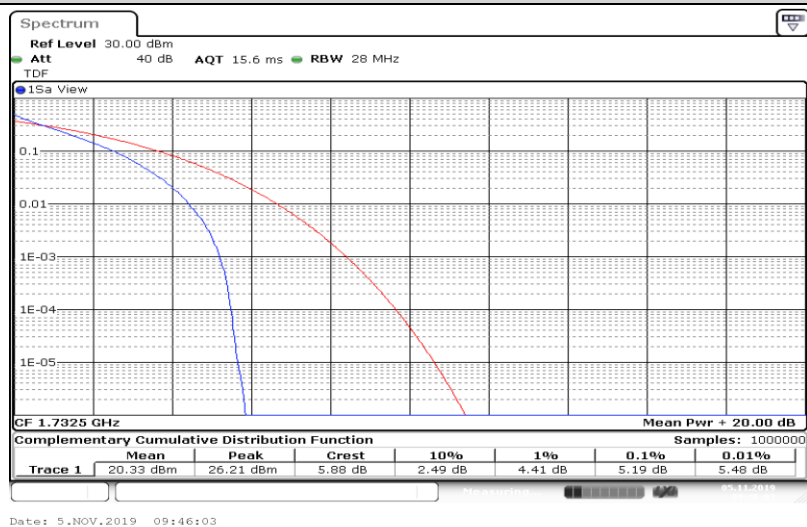
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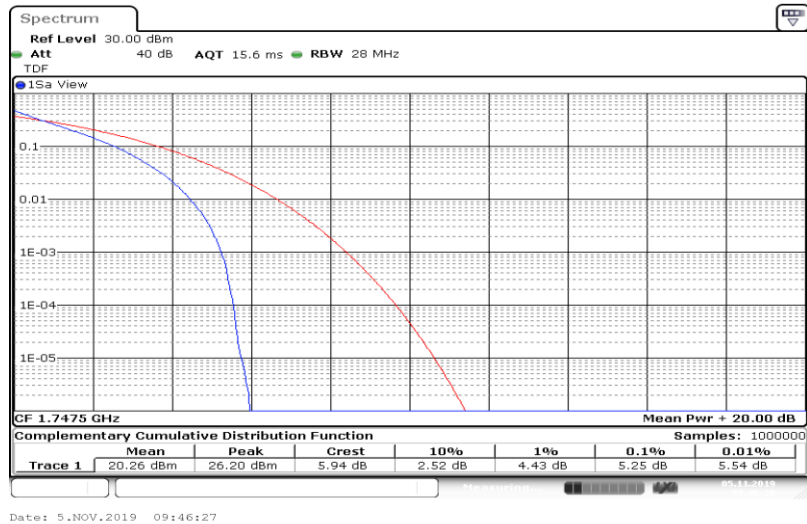
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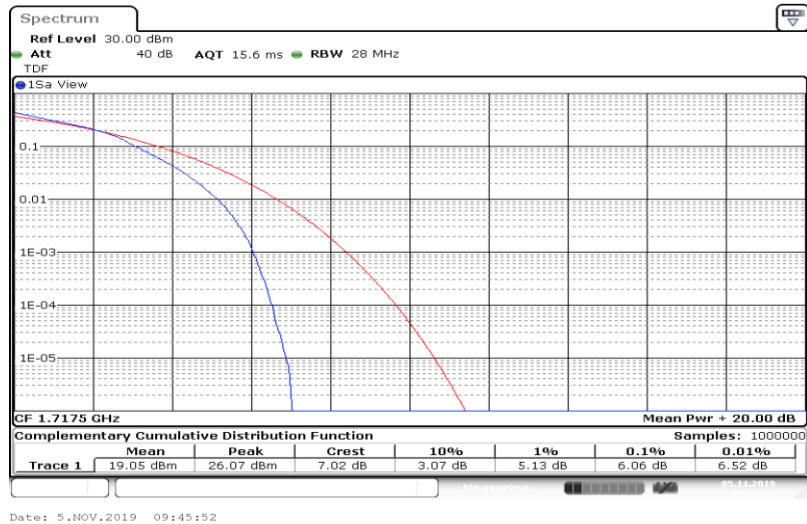
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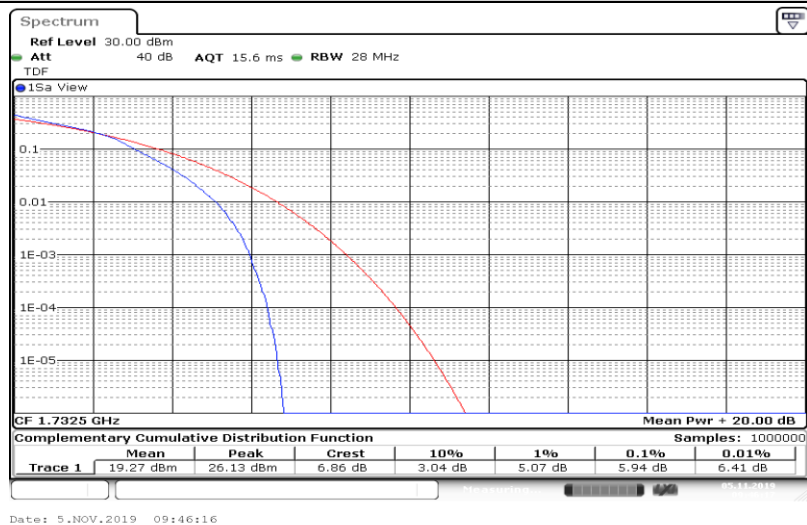
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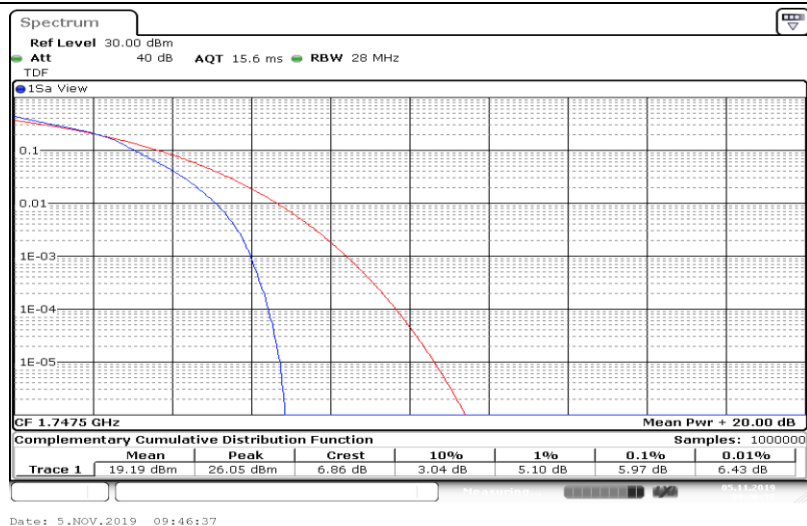
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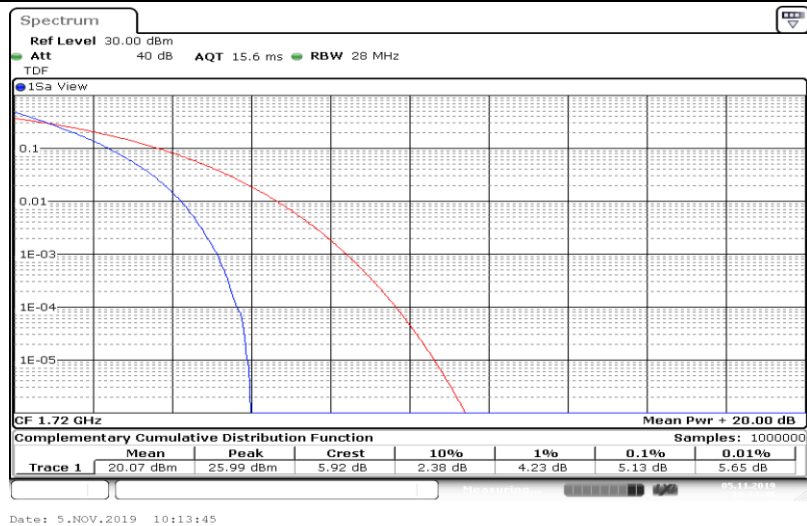
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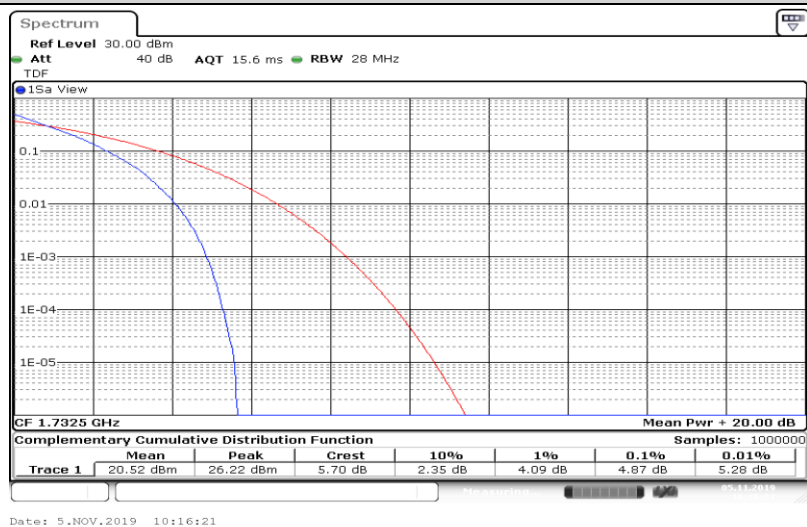
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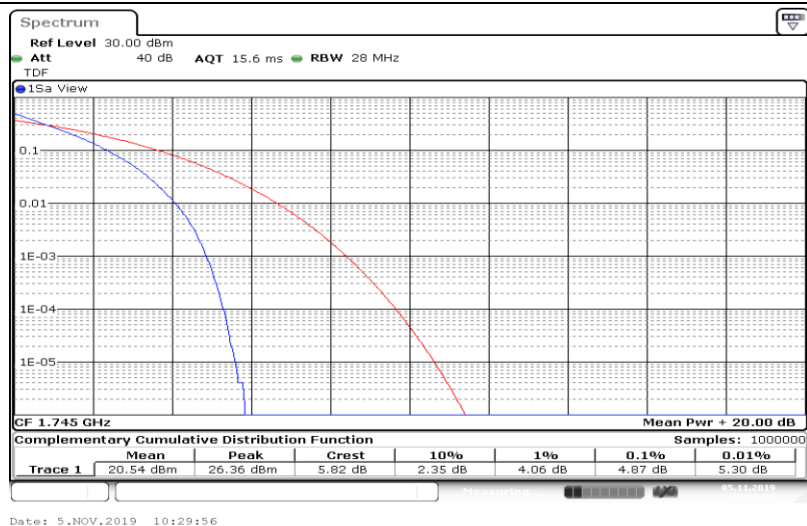
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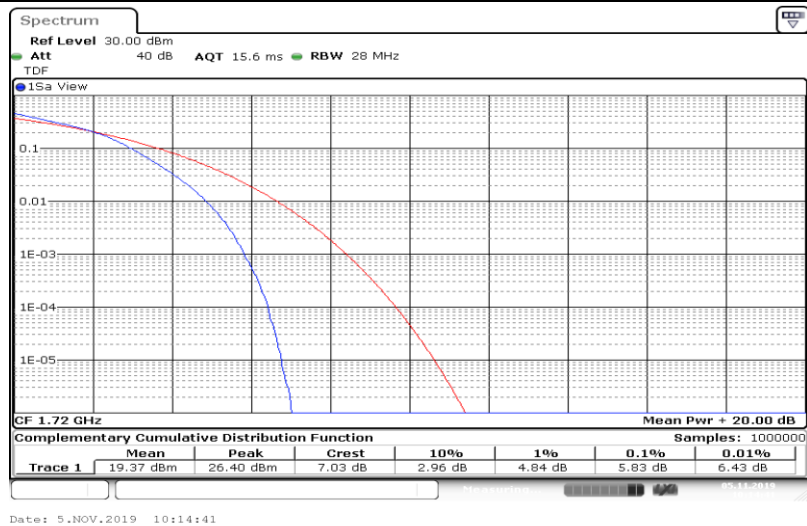
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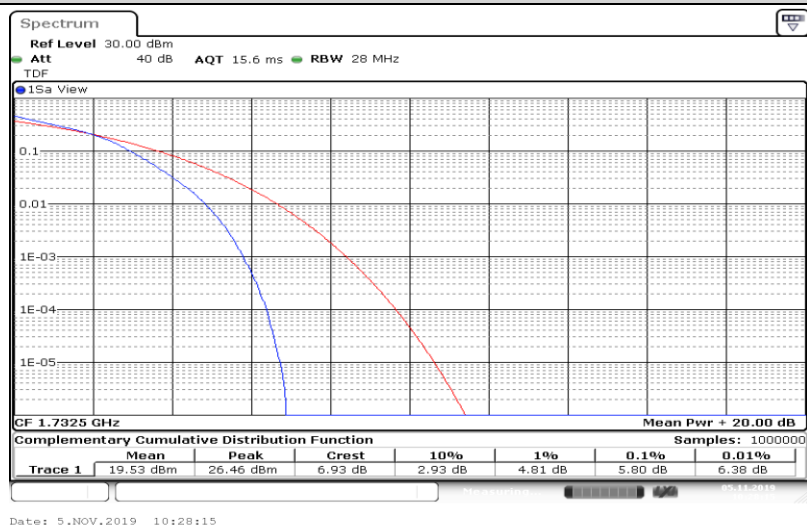
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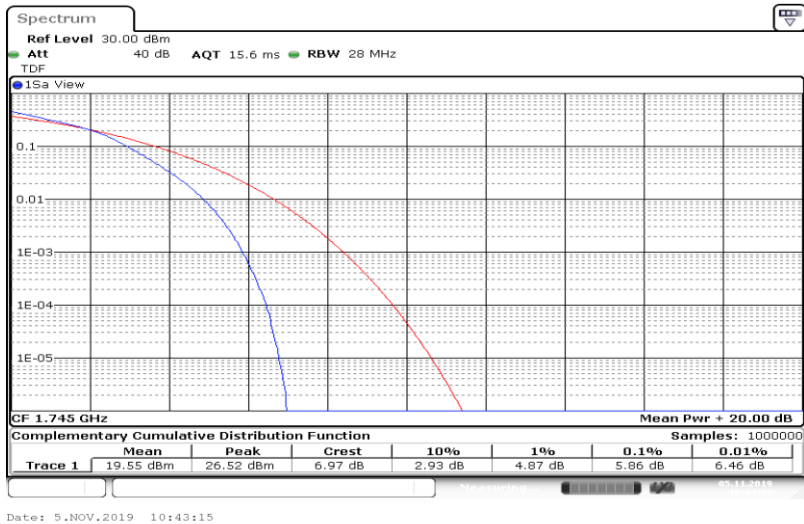
Band4-20MHz-16QAM-20050-100RB#0



Band4-20MHz-16QAM-20175-100RB#0



Band4-20MHz-16QAM-20300-100RB#0



Appendix C: 26dB Bandwidth and Occupied Bandwidth

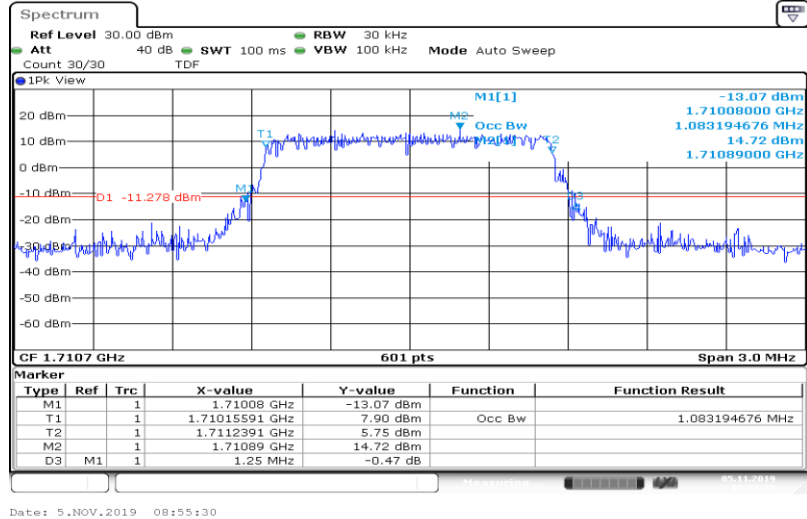
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.083	1.250	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.093	1.285	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.093	1.295	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.093	1.320	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.098	1.295	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.098	1.315	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.666	2.870	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.696	2.920	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.696	2.910	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.676	2.880	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.676	2.860	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.686	2.930	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.535	5.540	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.496	5.170	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.525	5.620	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.515	5.150	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.535	5.240	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.525	5.180	PASS
Band4	10MHz	QPSK	20000	50RB#0	9.052	10.200	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.985	10.133	PASS
Band4	10MHz	QPSK	20350	50RB#0	9.018	11.567	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.985	10.233	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.985	9.833	PASS
Band4	10MHz	16QAM	20350	50RB#0	9.052	10.867	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.527	17.300	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.478	15.350	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.577	15.650	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.527	15.100	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.527	15.250	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.527	16.100	PASS
Band4	20MHz	QPSK	20050	100RB#0	18.103	23.267	PASS
Band4	20MHz	QPSK	20175	100RB#0	18.103	20.000	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.97	19.800	PASS

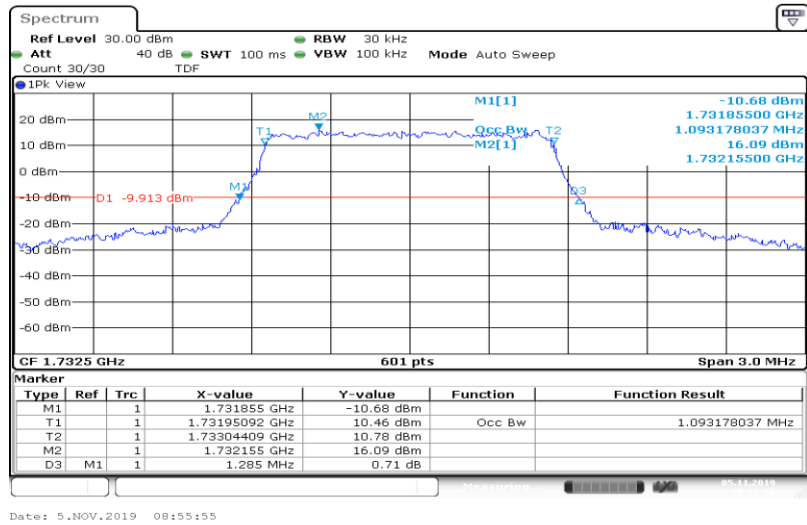
Band4	20MHz	16QAM	20050	100RB#0	18.037	20.133	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.97	19.867	PASS
Band4	20MHz	16QAM	20300	100RB#0	18.103	20.133	PASS

Test Graphs

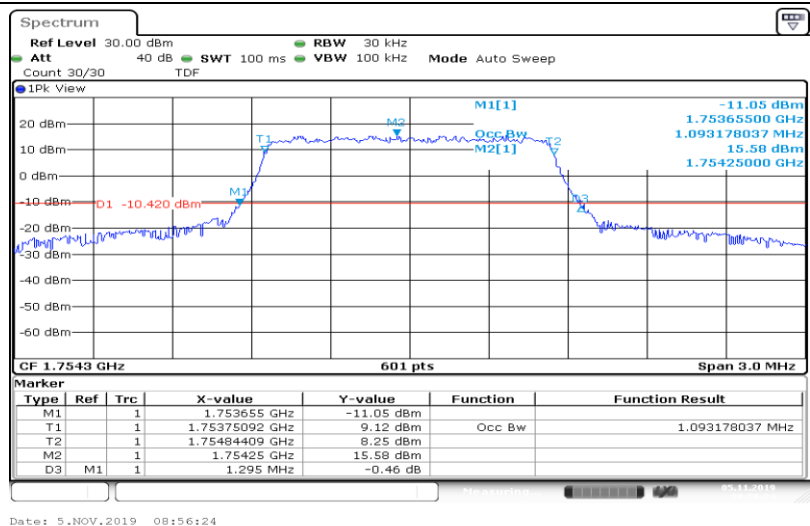
Band4-1.4MHz-QPSK-19957-6RB#0-1.083



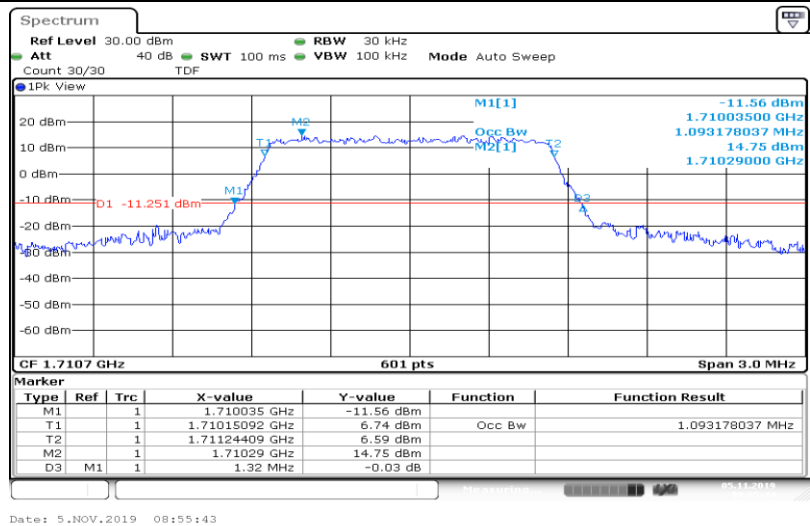
Band4-1.4MHz-QPSK-20175-6RB#0-1.093



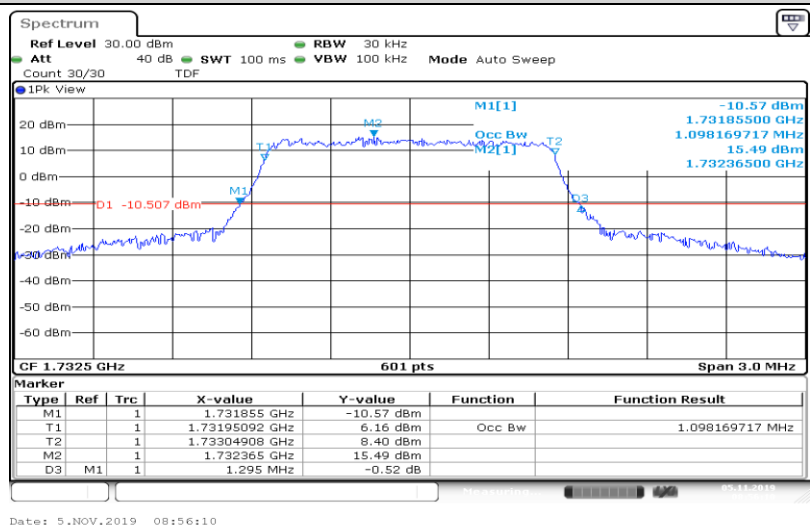
Band4-1.4MHz-QPSK-20393-6RB#0-1.093



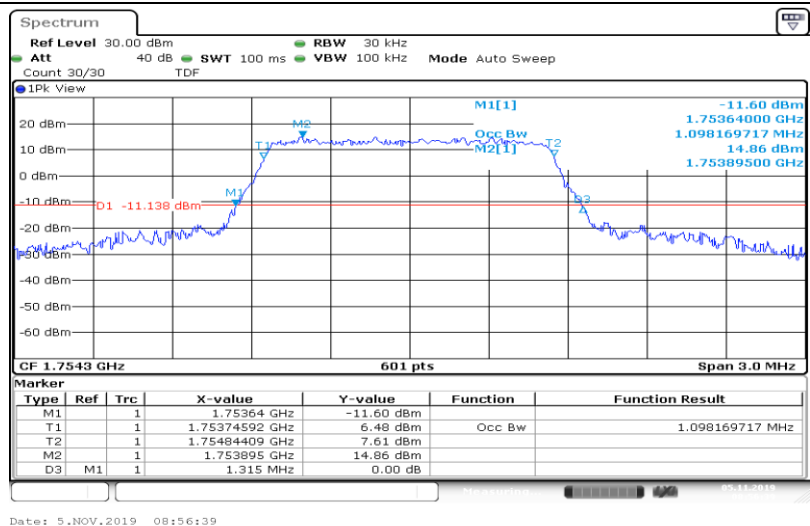
Band4-1.4MHz-16QAM-19957-6RB#0-1.093



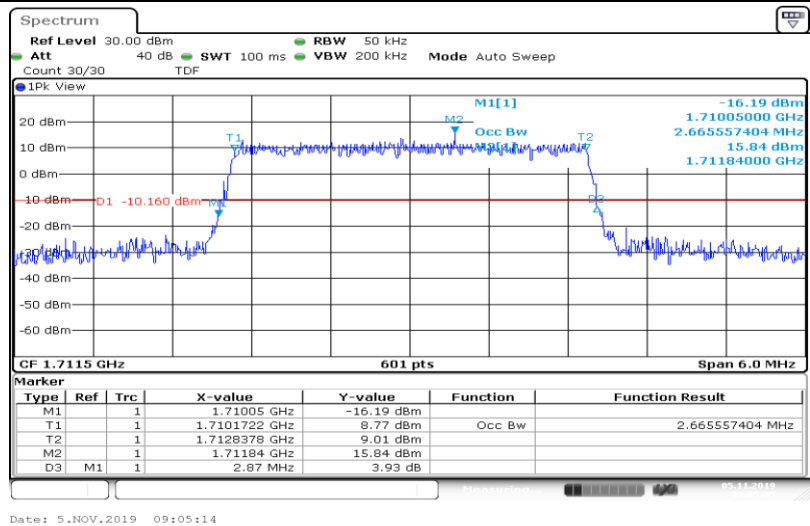
Band4-1.4MHz-16QAM-20175-6RB#0-1.098



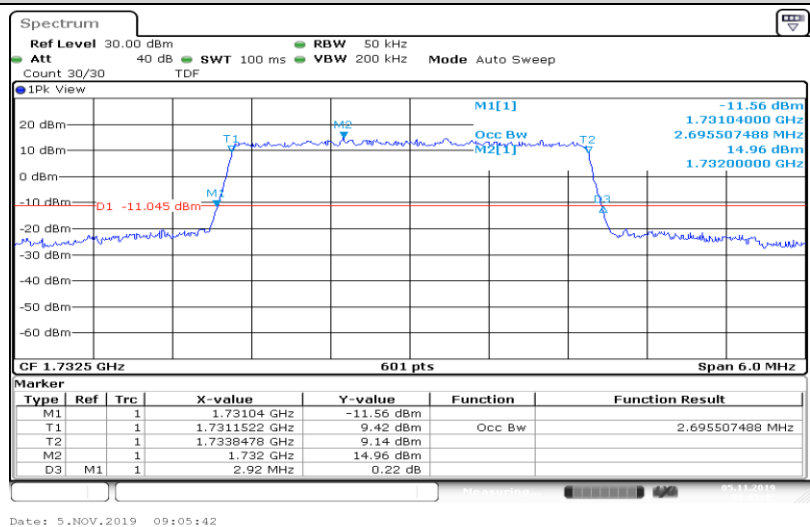
Band4-1.4MHz-16QAM-20393-6RB#0-1.098



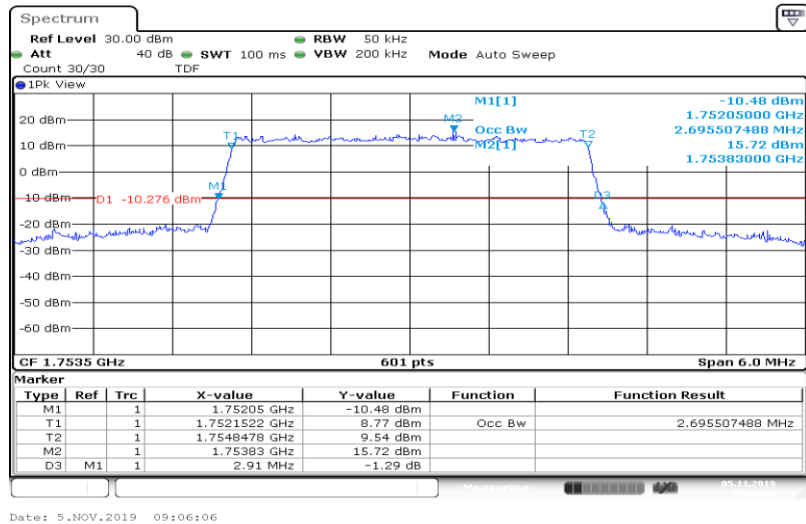
Band4-3MHz-QPSK-19965-15RB#0-2.666



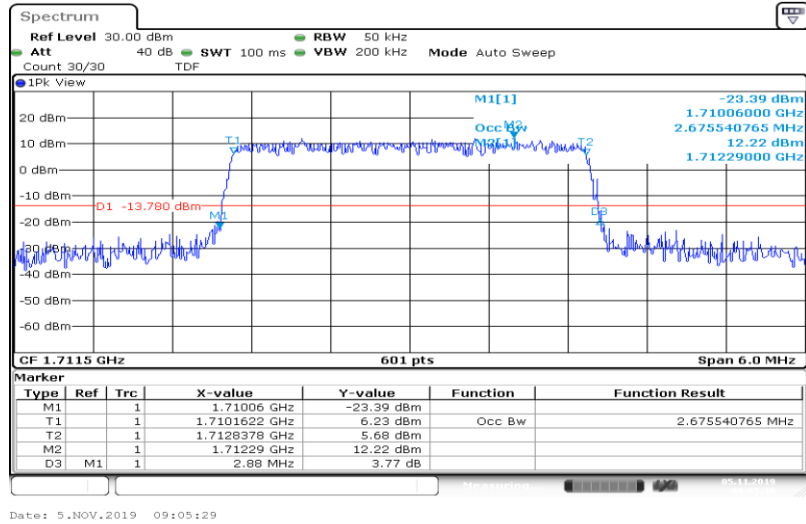
Band4-3MHz-QPSK-20175-15RB#0-2.696



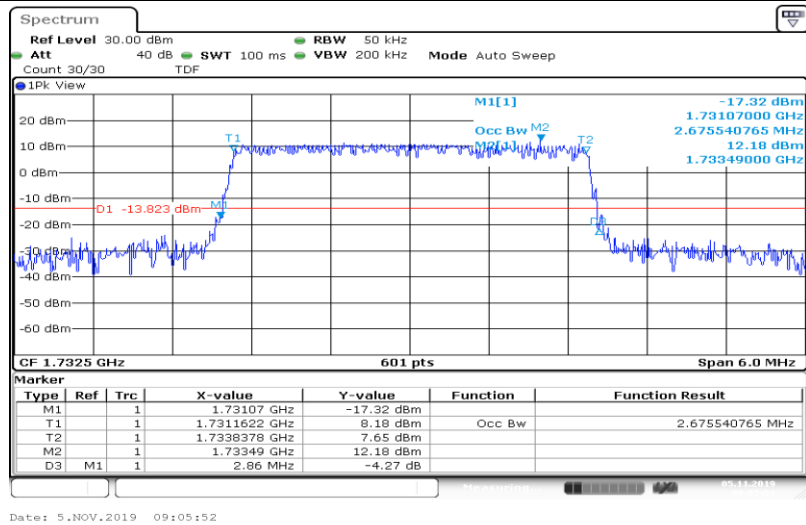
Band4-3MHz-QPSK-20385-15RB#0-2.696



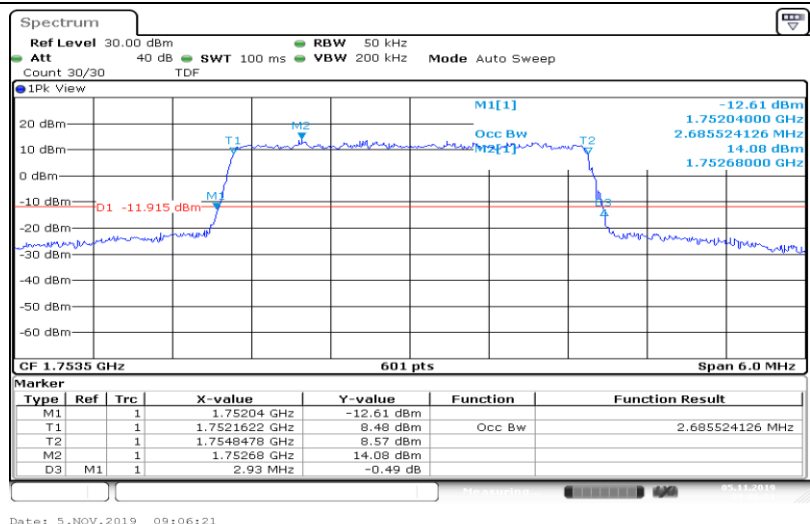
Band4-3MHz-16QAM-19965-15RB#0-2.676



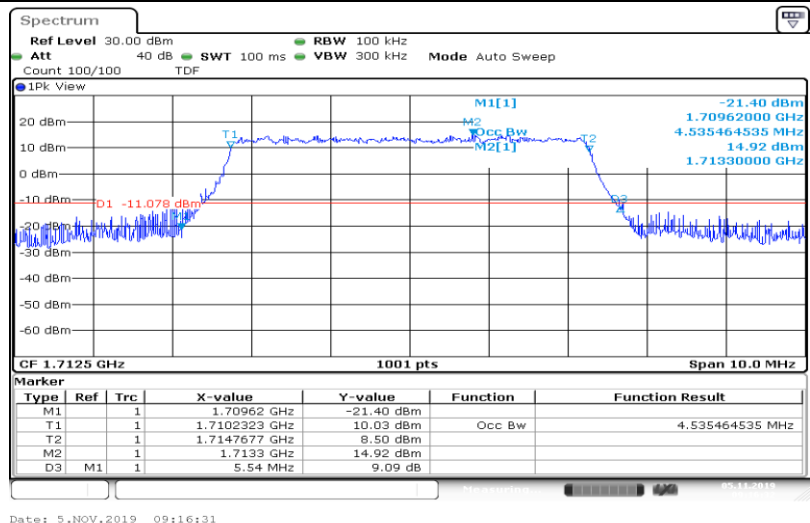
Band4-3MHz-16QAM-20175-15RB#0-2.676



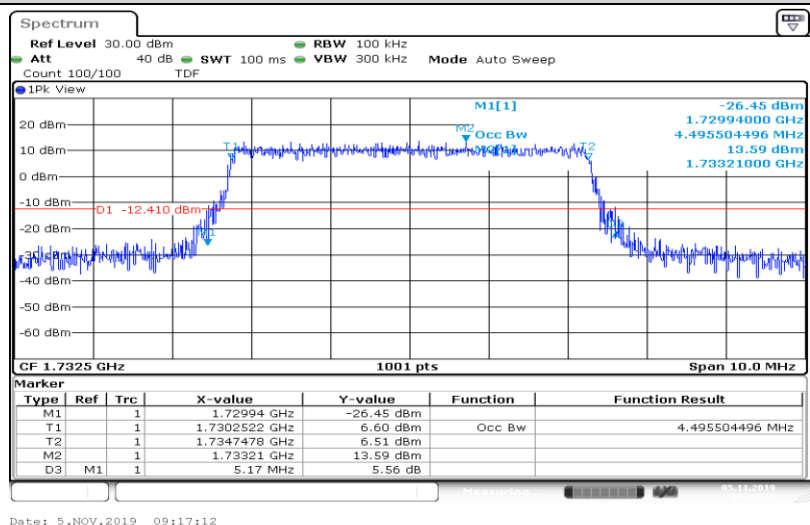
Band4-3MHz-16QAM-20385-15RB#0-2.686



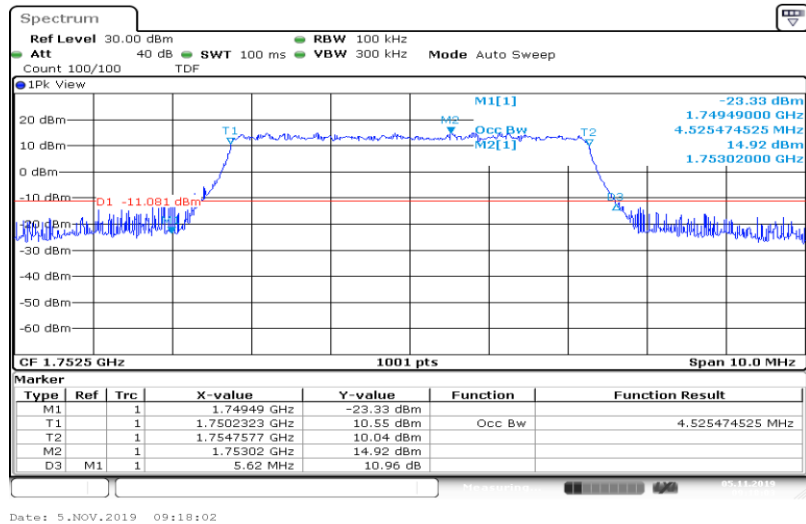
Band4-5MHz-QPSK-19975-25RB#0-4.535



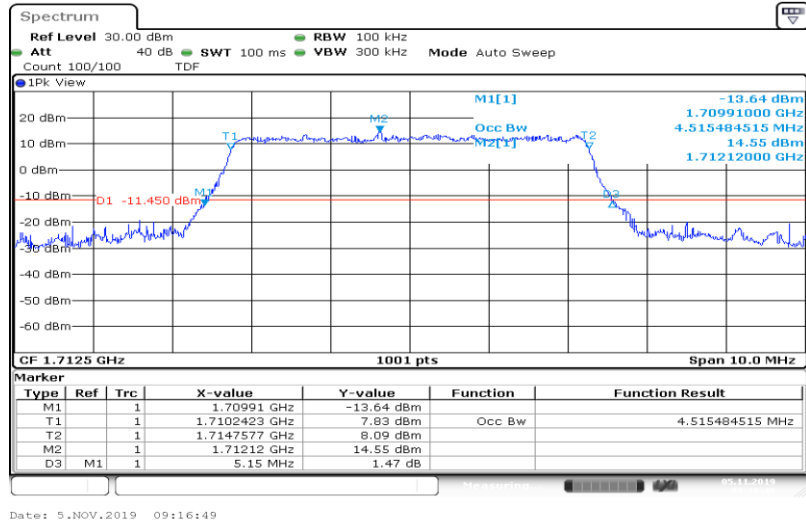
Band4-5MHz-QPSK-20175-25RB#0-4.496



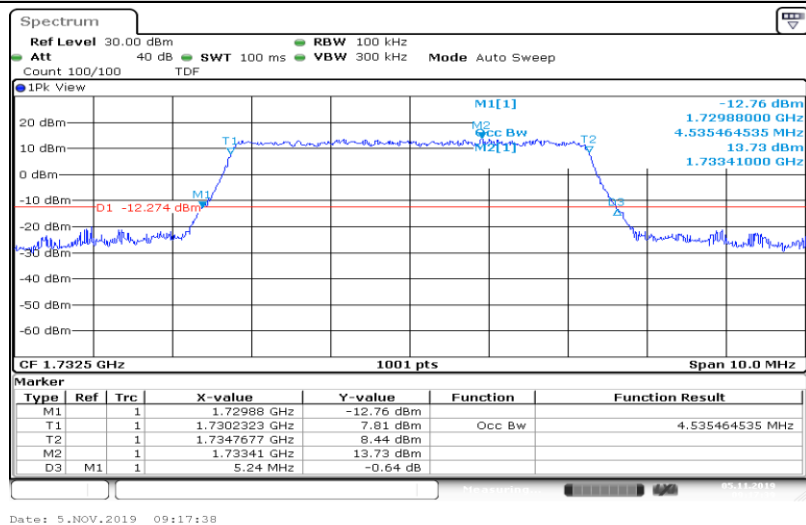
Band4-5MHz-QPSK-20375-25RB#0-4.525



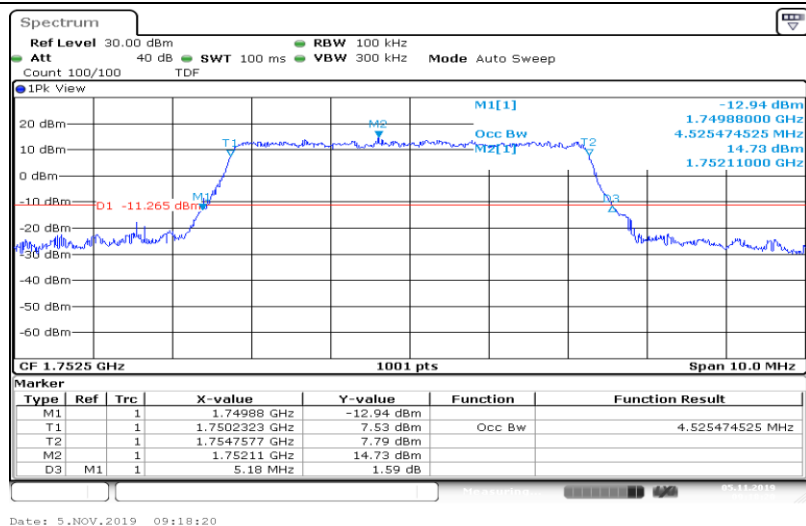
Band4-5MHz-16QAM-19975-25RB#0-4.515



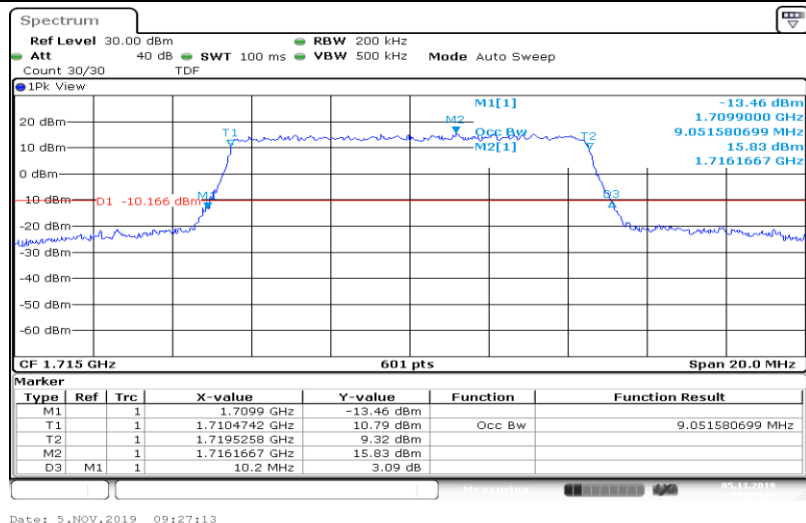
Band4-5MHz-16QAM-20175-25RB#0-4.535



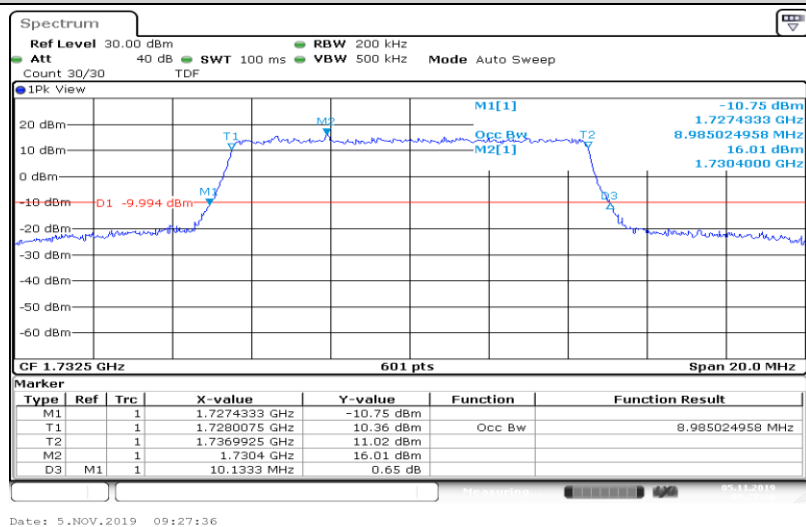
Band4-5MHz-16QAM-20375-25RB#0-4.525



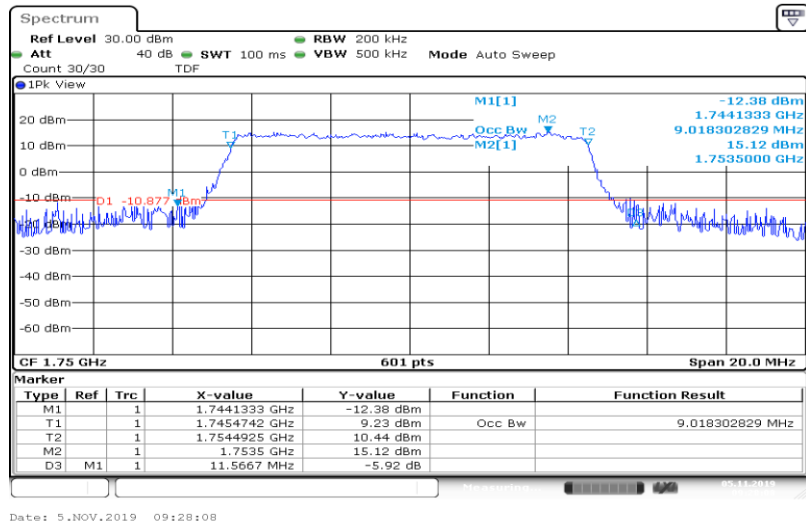
Band4-10MHz-QPSK-20000-50RB#0-9.052



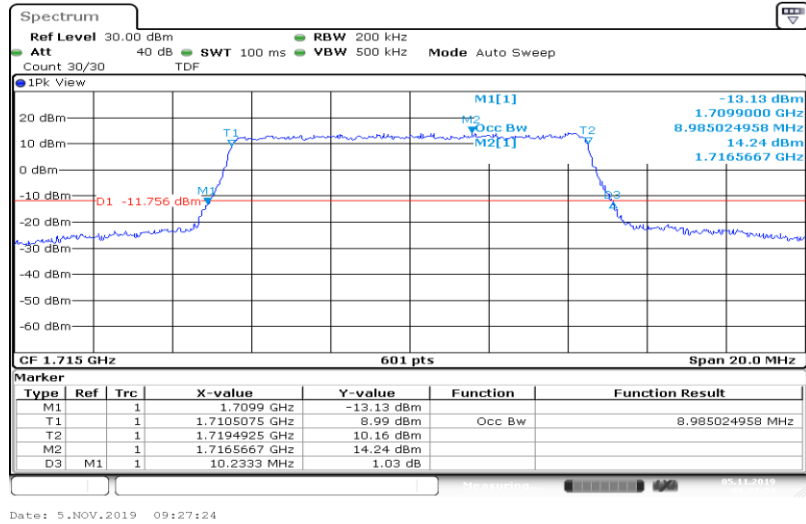
Band4-10MHz-QPSK-20175-50RB#0-8.985



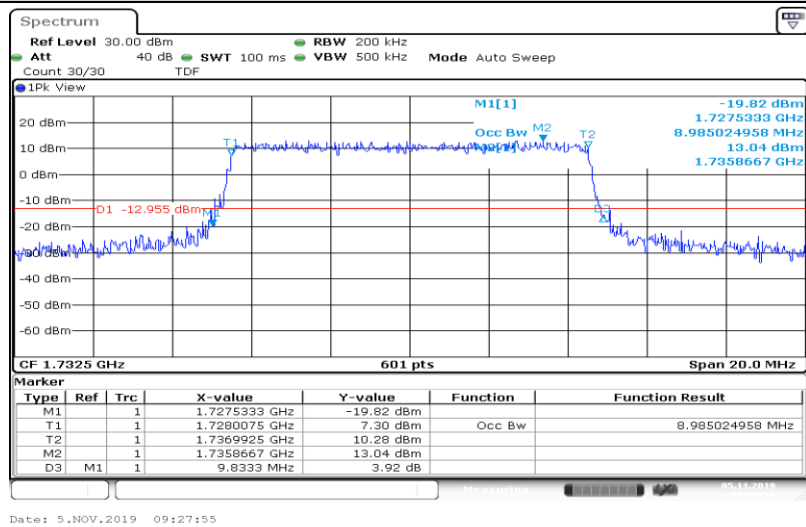
Band4-10MHz-QPSK-20350-50RB#0-9.018



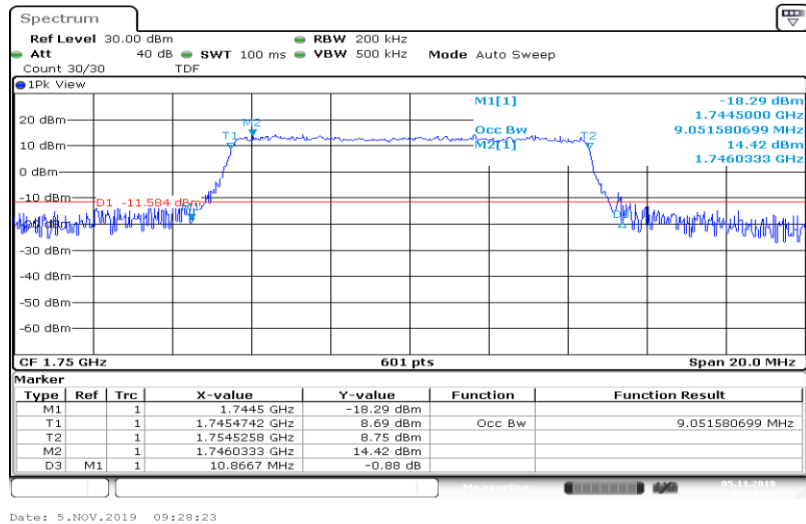
Band4-10MHz-16QAM-20000-50RB#0-8.985



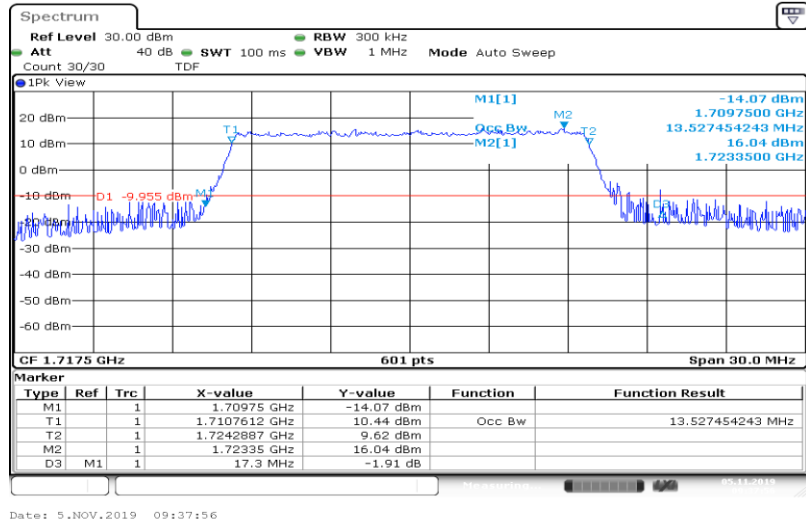
Band4-10MHz-16QAM-20175-50RB#0-8.985



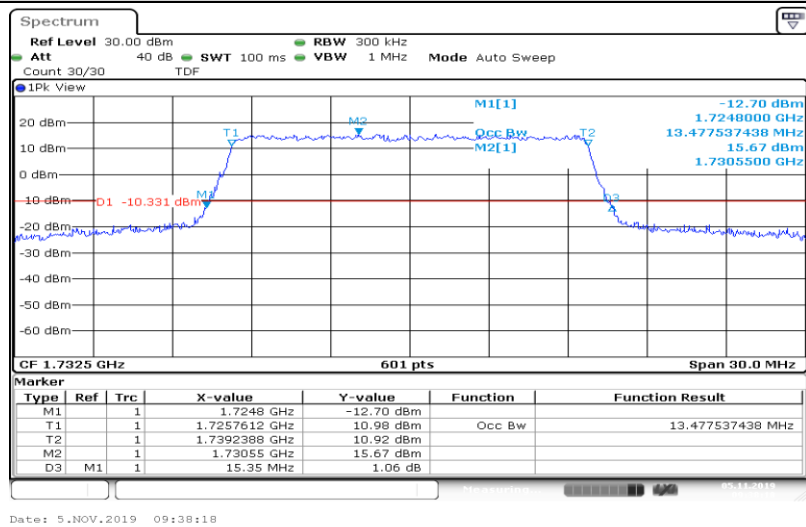
Band4-10MHz-16QAM-20350-50RB#0-9.052



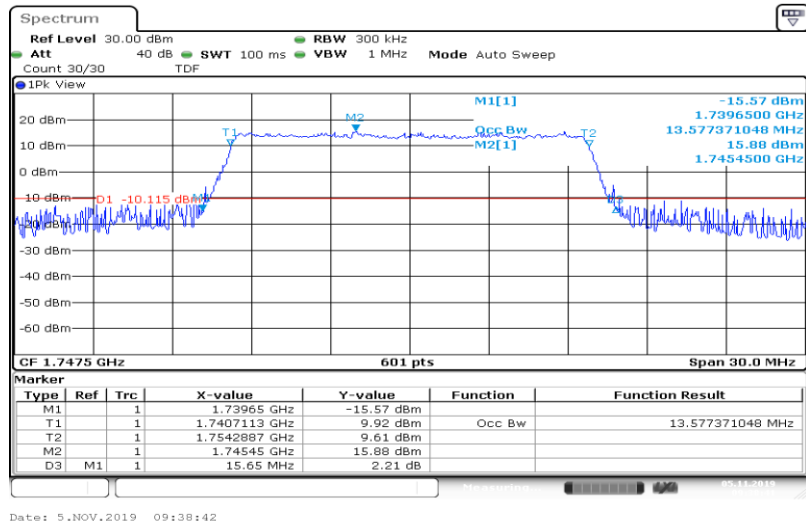
Band4-15MHz-QPSK-20025-75RB#0-13.527



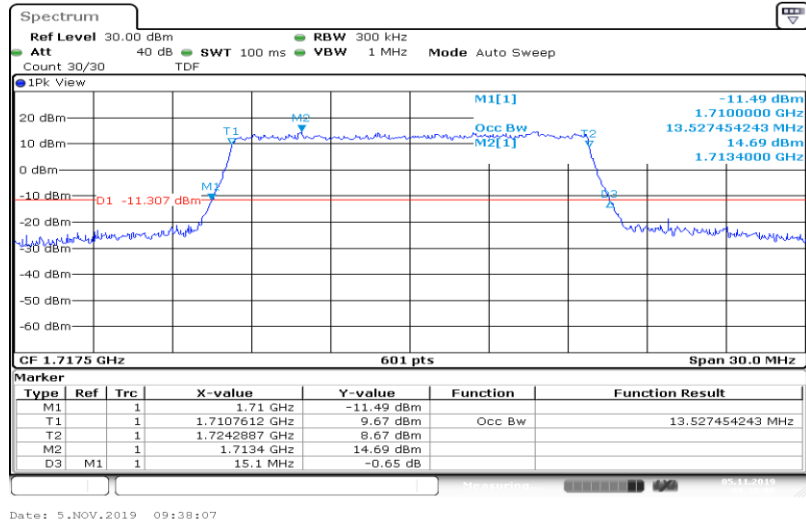
Band4-15MHz-QPSK-20175-75RB#0-13.478



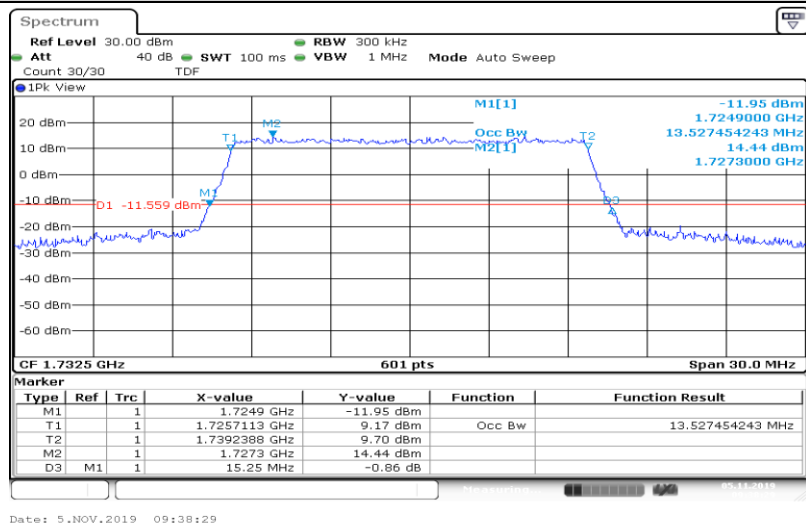
Band4-15MHz-QPSK-20325-75RB#0-13.577



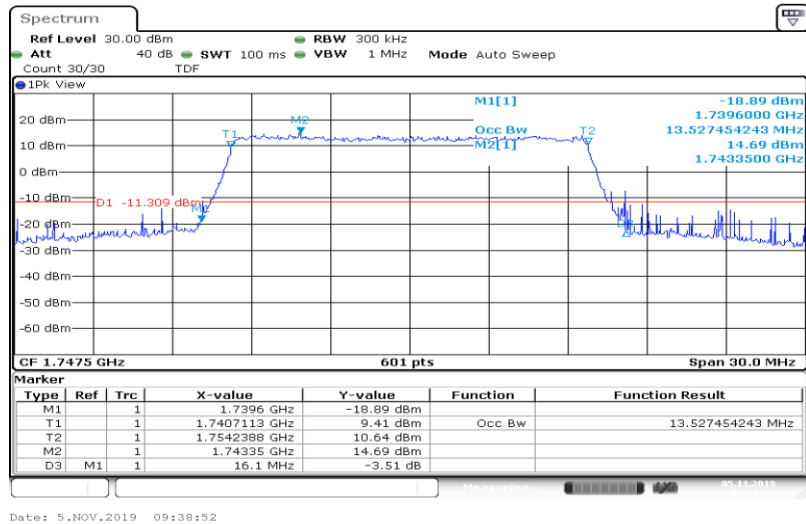
Band4-15MHz-16QAM-20025-75RB#0-13.527



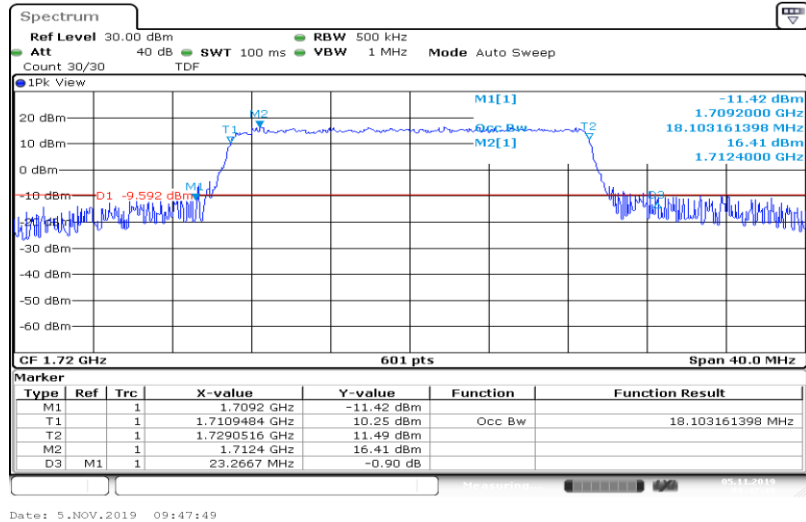
Band4-15MHz-16QAM-20175-75RB#0-13.527



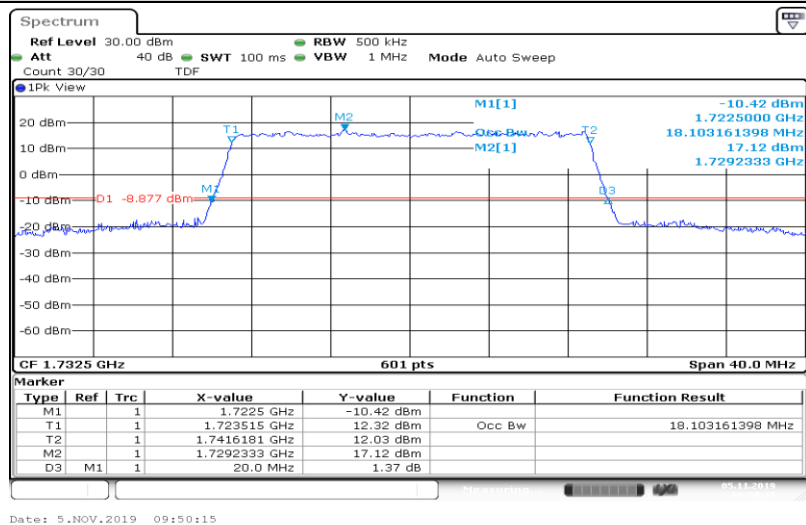
Band4-15MHz-16QAM-20325-75RB#0-13.527



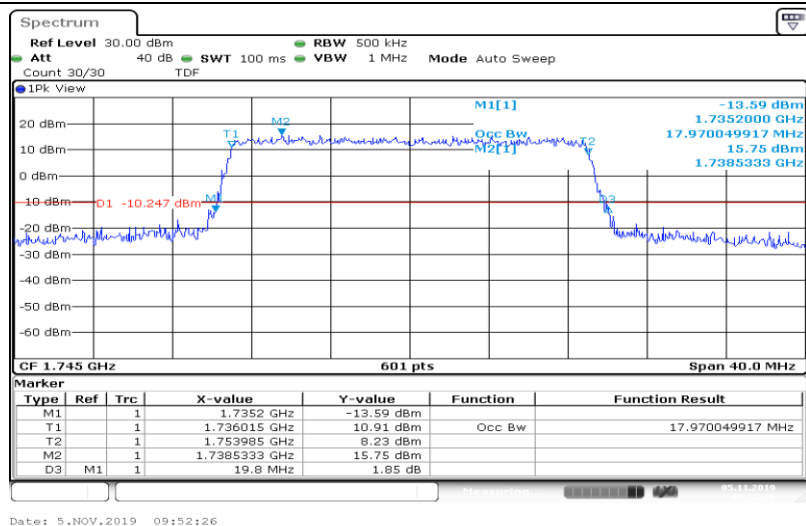
Band4-20MHz-QPSK-20050-100RB#0-18.103



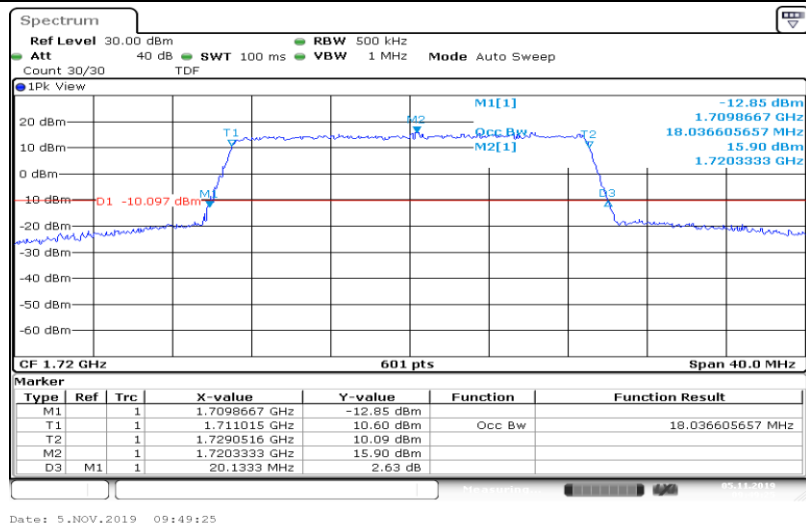
Band4-20MHz-QPSK-20175-100RB#0-18.103



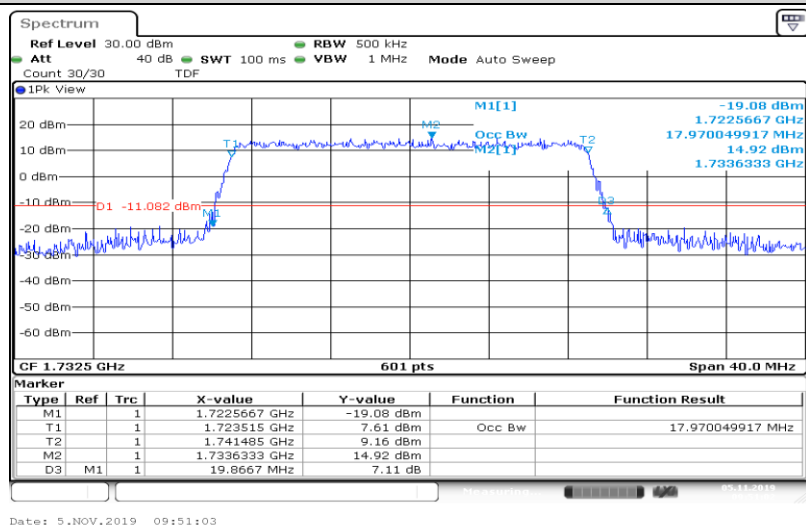
Band4-20MHz-QPSK-20300-100RB#0-17.97



Band4-20MHz-16QAM-20050-100RB#0-18.037



Band4-20MHz-16QAM-20175-100RB#0-17.97



Band4-20MHz-16QAM-20300-100RB#0-18.103



Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	-24.79	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	-25.67	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	-27.77	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	-27.71	PASS
Band4	3MHz	QPSK	19965	15RB#0	-29.64	PASS
Band4	3MHz	QPSK	20385	15RB#0	-29.14	PASS
Band4	3MHz	16QAM	19965	15RB#0	-34.32	PASS
Band4	3MHz	16QAM	20385	15RB#0	-31.47	PASS
Band4	5MHz	QPSK	19975	25RB#0	-28.73	PASS
Band4	5MHz	QPSK	20375	25RB#0	-27.12	PASS
Band4	5MHz	16QAM	19975	25RB#0	-27.61	PASS
Band4	5MHz	16QAM	20375	25RB#0	-28.18	PASS
Band4	10MHz	QPSK	20000	50RB#0	-29.38	PASS
Band4	10MHz	QPSK	20350	50RB#0	-32.42	PASS
Band4	10MHz	16QAM	20000	50RB#0	-31.70	PASS
Band4	10MHz	16QAM	20350	50RB#0	-32.69	PASS
Band4	15MHz	QPSK	20025	75RB#0	-28.90	PASS
Band4	15MHz	QPSK	20325	75RB#0	-28.83	PASS
Band4	15MHz	16QAM	20025	75RB#0	-33.87	PASS
Band4	15MHz	16QAM	20325	75RB#0	-33.01	PASS
Band4	20MHz	QPSK	20050	100RB#0	-31.98	PASS
Band4	20MHz	QPSK	20300	100RB#0	-30.64	PASS
Band4	20MHz	16QAM	20050	100RB#0	-34.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	-32.97	PASS

Test Graphs

Band4-1.4MHz-QPSK-19957-6RB#0