

Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

LTE FDD Band 13				
TX Channel Bandwidth	RB Size/Offset	Frequency (MHz)	Average Power [dBm]	
			QPSK	16QAM
5 MHz	1 RB low	779.5	22.82	22.15
		782.0	22.91	22.45
		784.5	22.34	21.65
	1 RB mid	779.5	22.14	21.40
		782.0	22.56	21.75
		784.5	22.07	21.25
	1 RB high	779.5	22.94	22.56
		782.0	22.68	21.95
		784.5	22.09	21.56
	50% RB low	779.5	22.81	22.06
		782.0	22.85	22.33
		784.5	22.46	21.90
	50% RB mid	779.5	23.28	22.57
		782.0	21.73	21.30
		784.5	22.81	22.34
	50% RB High	779.5	21.82	21.47
		782.0	22.86	22.22
		784.5	22.77	21.99
	100% RB	779.5	21.60	21.04
		782.0	22.53	22.13
		784.5	21.79	21.36
10 MHz	1 RB low	782 .0	21.73	21.07
	1 RB mid	782 .0	22.76	22.35
	1 RB high	782 .0	22.24	21.60
	50% RB low	782 .0	22.73	21.89
	50% RB mid	782 .0	22.22	21.74
	50% RB High	782 .0	23.40	22.93
	100% RB	782 .0	21.60	20.89

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

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	5.22	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.62	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.29	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	5.25	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	5.59	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	5.25	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	4.32	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	5.30	13	PASS

Test Graphs

Band13-5MHz-QPSK-23205-25RB#0



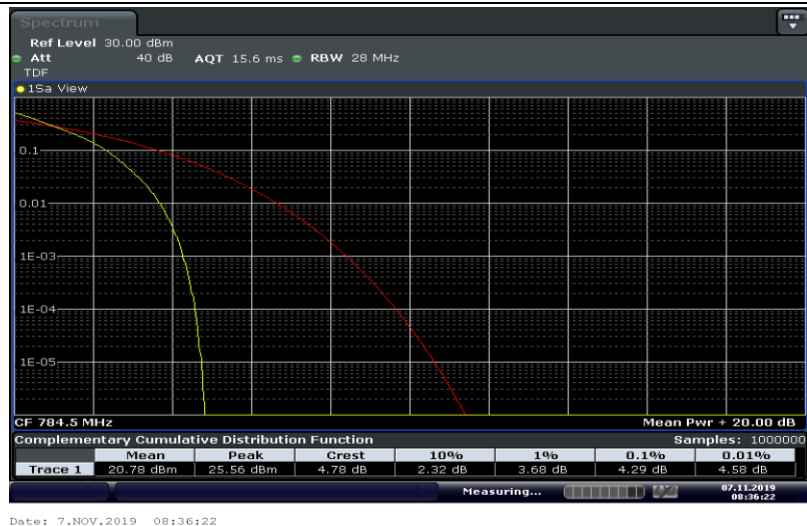
Date: 7.NOV.2019 08:35:44

Band13-5MHz-QPSK-23230-25RB#0



Date: 7.NOV.2019 08:36:04

Band13-5MHz-QPSK-23255-25RB#0



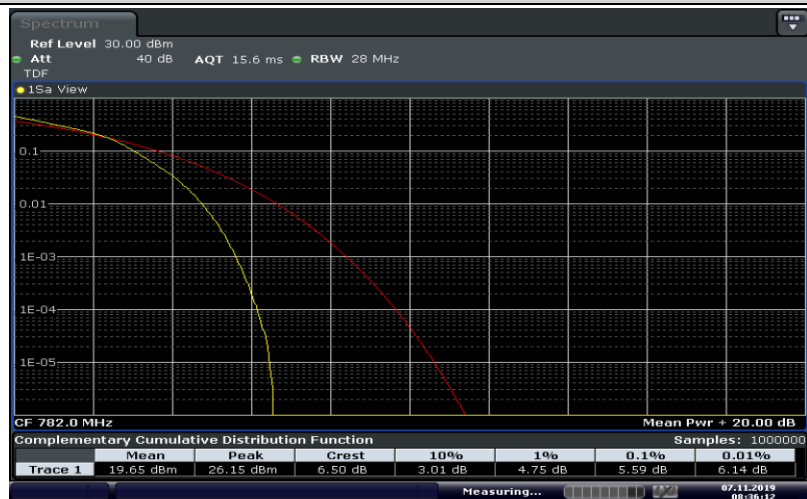
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Band13-5MHz-16QAM-23205-25RB#0



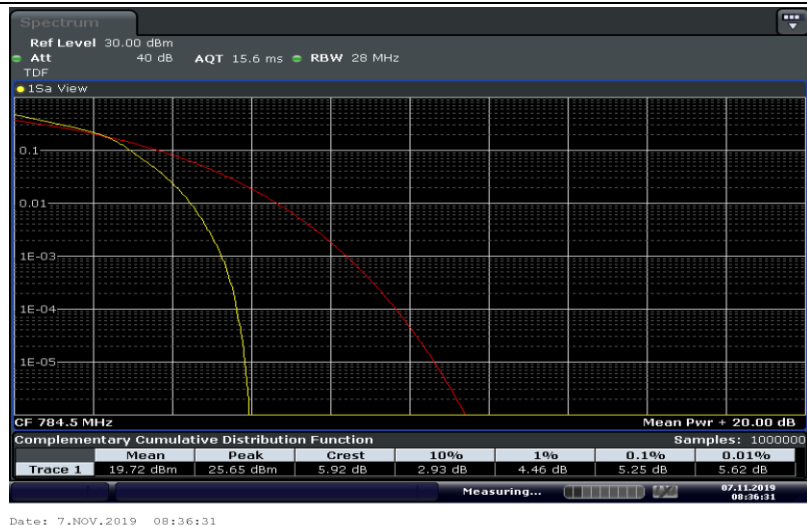
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Band13-5MHz-16QAM-23230-25RB#0



Date: 7.NOV.2019 08:36:12

Band13-5MHz-16QAM-23255-25RB#0



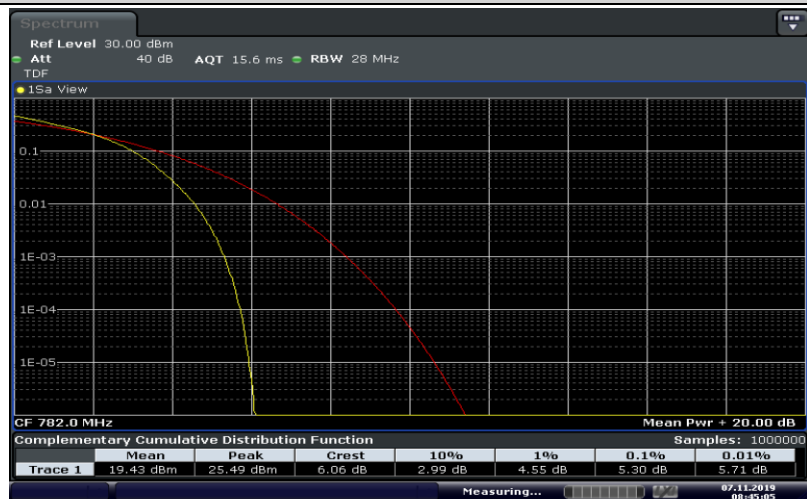
Date: 7.NOV.2019 08:36:31

Band13-10MHz-QPSK-23230-50RB#0



Date: 7.NOV.2019 08:44:56

Band13-10MHz-16QAM-23230-50RB#0



Date: 7.NOV.2019 08:45:06

Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.525	5.280	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.535	5.200	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.535	5.260	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.505	5.130	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.545	5.210	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.555	5.210	PASS
Band13	10MHz	QPSK	23230	50RB#0	9.018	10.400	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.985	10.100	PASS

Test Graphs

Band13-5MHz-QPSK-23205-25RB#0-4.525



Date: 7.NOV.2019 08:28:45

Band13-5MHz-QPSK-23230-25RB#0-4.535



Date: 7.NOV.2019 08:29:21

Band13-5MHz-QPSK-23255-25RB#0-4.535



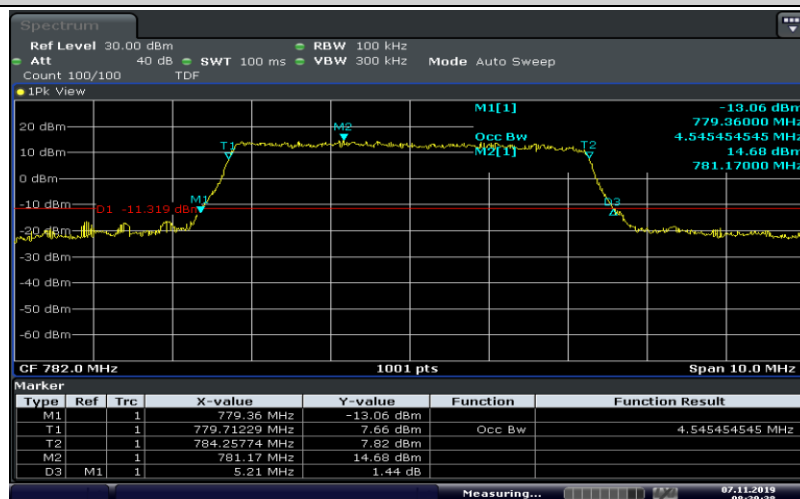
Date: 7.NOV.2019 08:29:57

Band13-5MHz-16QAM-23205-25RB#0-4.505



Date: 7.NOV.2019 08:29:03

Band13-5MHz-16QAM-23230-25RB#0-4.545



Date: 7.NOV.2019 08:29:38

Band13-5MHz-16QAM-23255-25RB#0-4.555



Date: 7.NOV.2019 08:30:15

Band13-10MHz-QPSK-23230-50RB#0-9.018



Date: 7.NOV.2019 08:30:57

Band13-10MHz-16QAM-23230-50RB#0-8.985



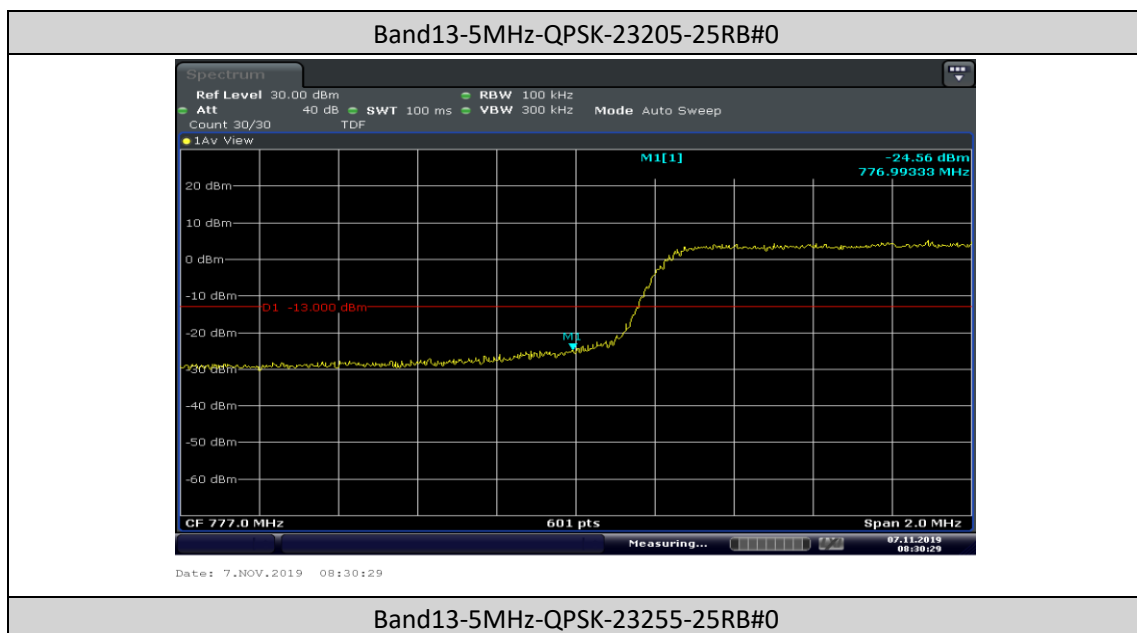
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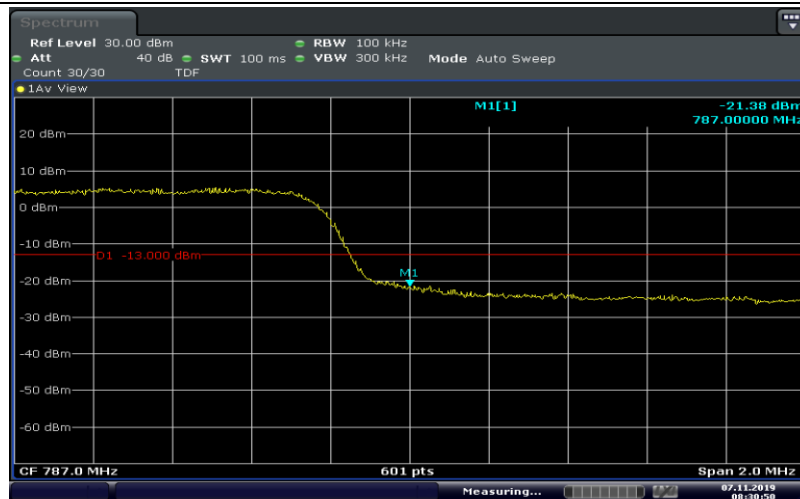
Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	-24.56	PASS
Band13	5MHz	QPSK	23255	25RB#0	-21.38	PASS
Band13	5MHz	16QAM	23205	25RB#0	-24.49	PASS
Band13	5MHz	16QAM	23255	25RB#0	-21.70	PASS
Band13	10MHz	QPSK	23230	50RB#0	-25.42,-23.17	PASS
Band13	10MHz	QPSK	2323023230	50RB#0	-26.18,-24.08	PASS
Band13	10MHz	16QAM	23230	50RB#0	-27.45,-26.62	PASS
Band13	10MHz	16QAM	2323023230	50RB#0	-28.68,-27.07	PASS

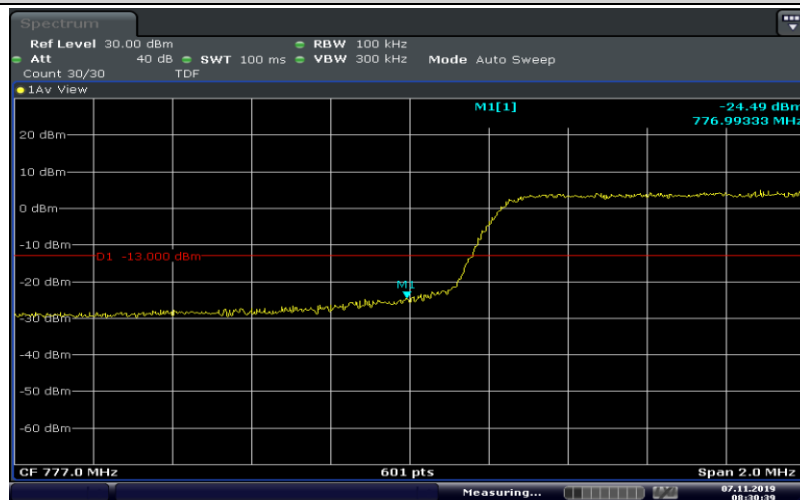
Test Graphs





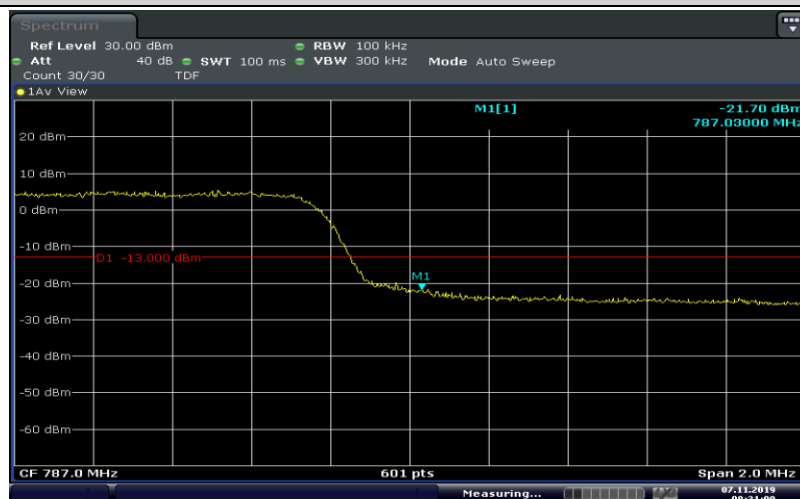
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Band13-5MHz-16QAM-23205-25RB#0



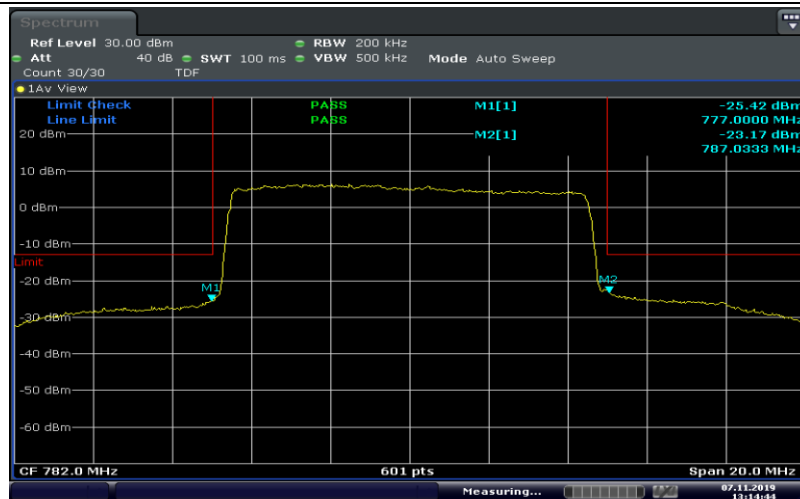
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Band13-5MHz-16QAM-23255-25RB#0



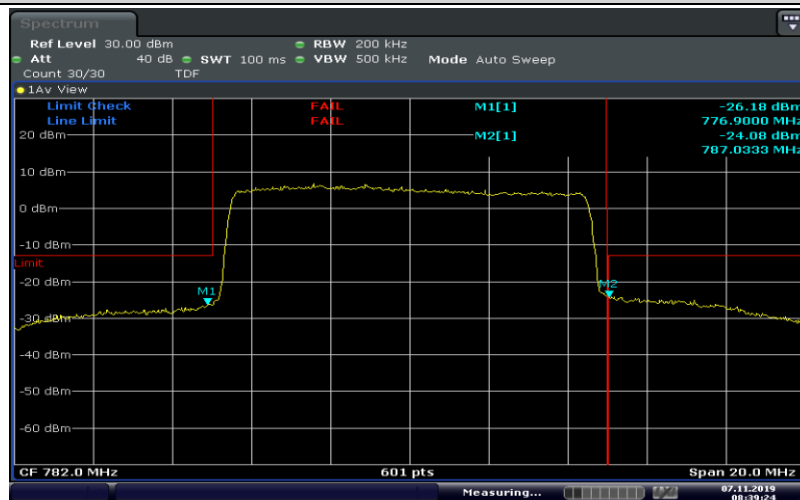
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Band13-10MHz-QPSK-23230-50RB#0



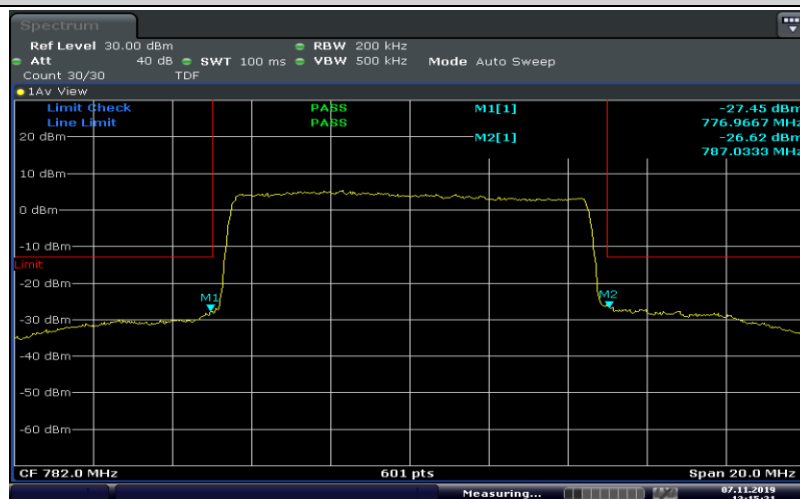
Date: 7.NOV.2019 13:14:45

Band13-10MHz-QPSK-2323023230-50RB#0



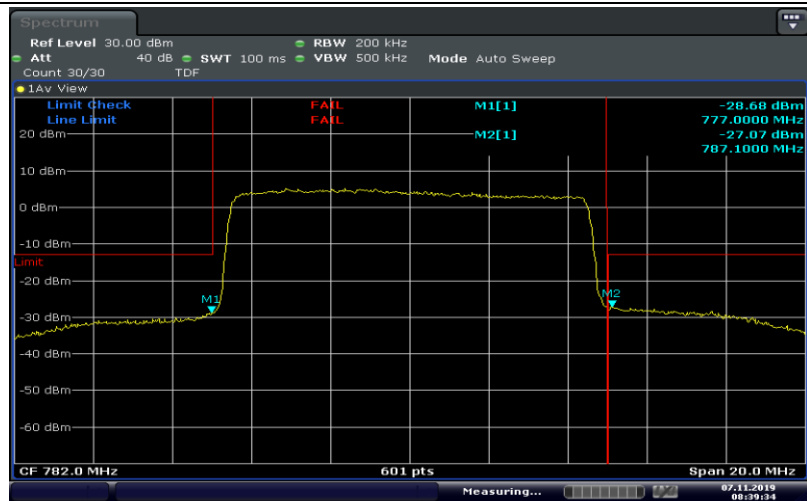
Date: 7.NOV.2019 08:39:24

Band13-10MHz-16QAM-23230-50RB#0



Date: 7.NOV.2019 13:15:21

Band13-10MHz-16QAM-2323023230-50RB#0



Date: 7.NOV.2019 08:39:35

Appendix E: Conducted Spurious Emission

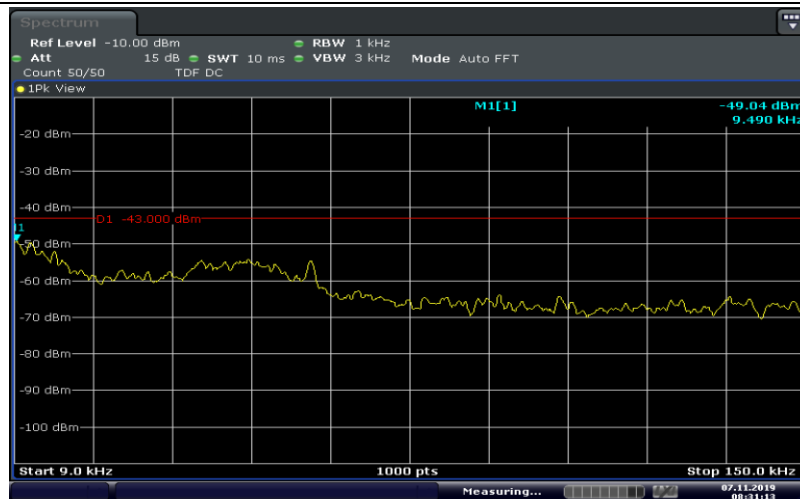
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band1 3	5MHz	QPSK	23205	25RB#0	Range1:0.009~0.15MHz	-49.04	PASS
Band1 3	5MHz	QPSK	23205	25RB#0	Range2:0.15~30MHz	-59.52	PASS
Band1 3	5MHz	QPSK	23205	25RB#0	Range3:30~1000MHz	-36.63	PASS
Band1 3	5MHz	QPSK	23205	25RB#0	Range4:1000~10000MHz	-42.07	PASS
Band1 3	5MHz	QPSK	23230	25RB#0	Range1:0.009~0.15MHz	-48.62	PASS
Band1 3	5MHz	QPSK	23230	25RB#0	Range2:0.15~30MHz	-57.96	PASS
Band1 3	5MHz	QPSK	23230	25RB#0	Range3:30~1000MHz	-35.88	PASS
Band1 3	5MHz	QPSK	23230	25RB#0	Range4:1000~10000MHz	-40.34	PASS
Band1 3	5MHz	QPSK	23255	25RB#0	Range1:0.009~0.15MHz	-49.59	PASS
Band1 3	5MHz	QPSK	23255	25RB#0	Range2:0.15~30MHz	-57.96	PASS
Band1 3	5MHz	QPSK	23255	25RB#0	Range3:30~1000MHz	-36.66	PASS
Band1 3	5MHz	QPSK	23255	25RB#0	Range4:1000~10000MHz	-41.89	PASS
Band1 3	5MHz	16QAM	23205	25RB#0	Range1:0.009~0.15MHz	-45.17	PASS
Band1 3	5MHz	16QAM	23205	25RB#0	Range2:0.15~30MHz	-58.83	PASS
Band1 3	5MHz	16QAM	23205	25RB#0	Range3:30~1000MHz	-35.91	PASS
Band1 3	5MHz	16QAM	23205	25RB#0	Range4:1000~10000MHz	-41.35	PASS
Band1 3	5MHz	16QAM	23230	25RB#0	Range1:0.009~0.15MHz	-49.46	PASS
Band1	5MHz	16QAM	23230	25RB#0	Range2:0.15~30MHz	-59.5	PASS

3						4	
Band1 3	5MHz	16QAM	23230	25RB#0	Range3:30~1000MHz	-36.8	PASS
Band1 3	5MHz	16QAM	23230	25RB#0	Range4:1000~10000M Hz	-40.9 1	PASS
Band1 3	5MHz	16QAM	23255	25RB#0	Range1:0.009~0.15MH z	-49.5 3	PASS
Band1 3	5MHz	16QAM	23255	25RB#0	Range2:0.15~30MHz	-59.7 4	PASS
Band1 3	5MHz	16QAM	23255	25RB#0	Range3:30~1000MHz	-36.0 9	PASS
Band1 3	5MHz	16QAM	23255	25RB#0	Range4:1000~10000M Hz	-41.7 2	PASS
Band1 3	10MHz	QPSK	23230	50RB#0	Range1:0.009~0.15MH z	-49.1 3	PASS
Band1 3	10MHz	QPSK	23230	50RB#0	Range2:0.15~30MHz	-59.4 1	PASS
Band1 3	10MHz	QPSK	23230	50RB#0	Range3:30~1000MHz	-36.7 4	PASS
Band1 3	10MHz	QPSK	23230	50RB#0	Range4:1000~10000M Hz	-44.3 5	PASS
Band1 3	10MHz	16QAM	23230	50RB#0	Range1:0.009~0.15MH z	-47.6 9	PASS
Band1 3	10MHz	16QAM	23230	50RB#0	Range2:0.15~30MHz	-58.2 9	PASS
Band1 3	10MHz	16QAM	23230	50RB#0	Range3:30~1000MHz	-36.8 5	PASS
Band1 3	10MHz	16QAM	23230	50RB#0	Range4:1000~10000M Hz	-45.3 1	PASS

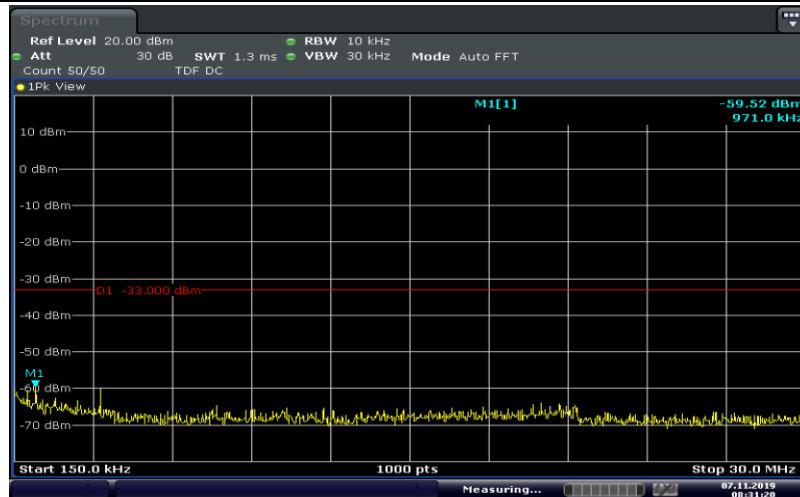
Test Graphs

Band13-5MHz-QPSK-23205-25RB#0-Range1:0.009~0.15MHz



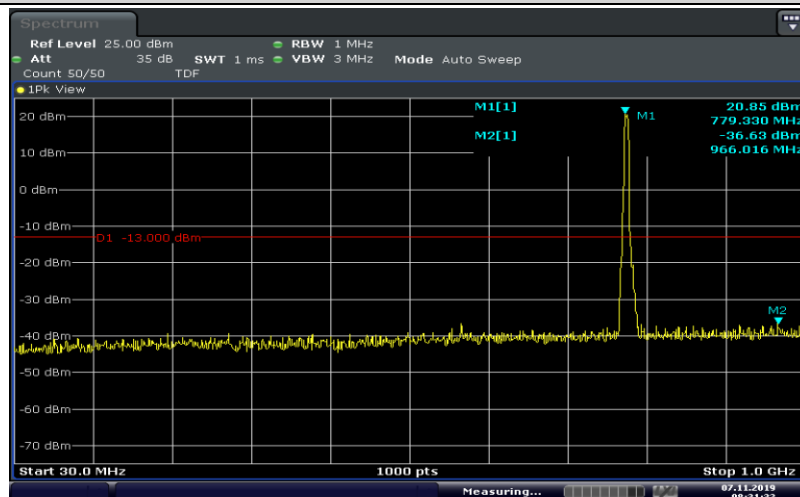
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Band13-5MHz-QPSK-23205-25RB#0-Range2:0.15~30MHz



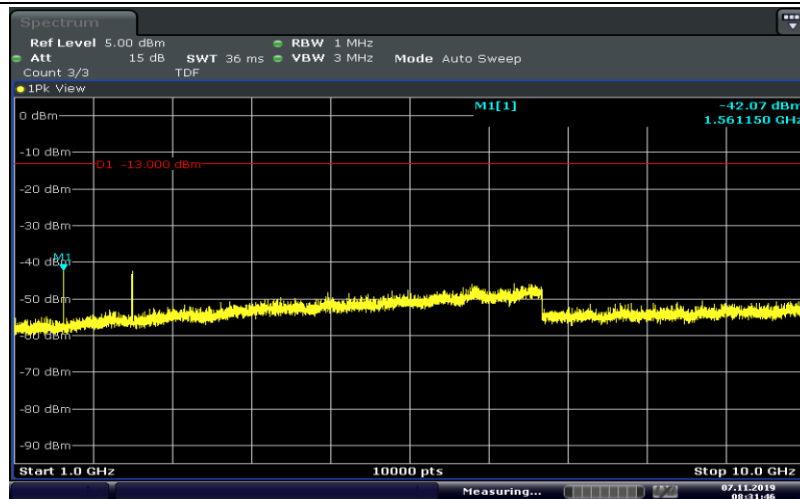
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Band13-5MHz-QPSK-23205-25RB#0-Range3:30~1000MHz



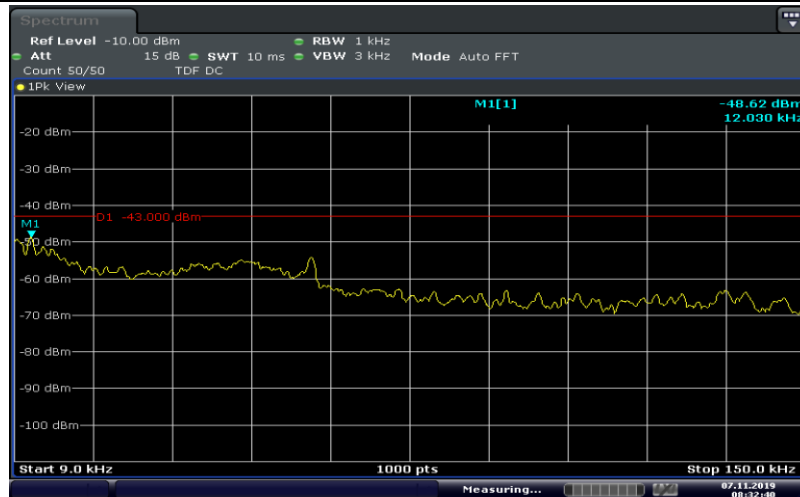
Date: 7.NOV.2019 08:31:32

Band13-5MHz-QPSK-23205-25RB#0-Range4:1000~10000MHz



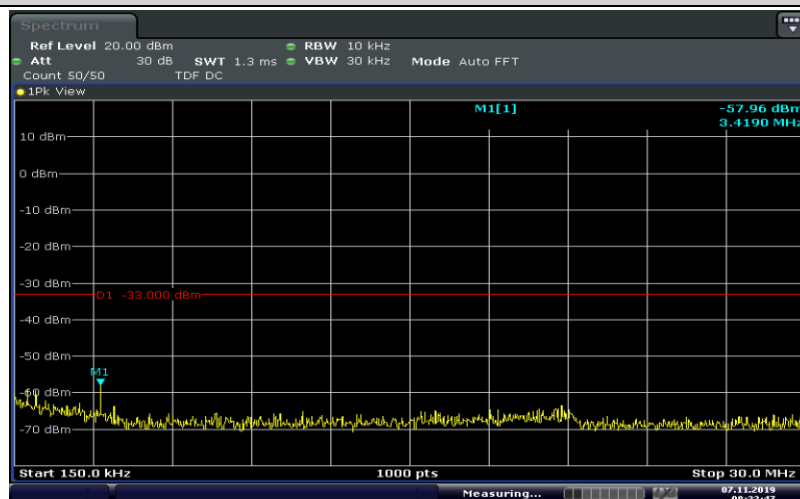
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Band13-5MHz-QPSK-23230-25RB#0-Range1:0.009~0.15MHz



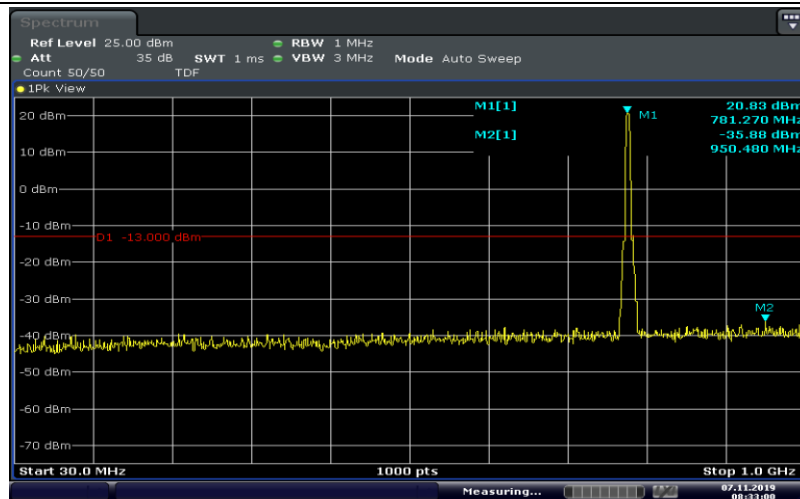
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Band13-5MHz-QPSK-23230-25RB#0-Range2:0.15~30MHz



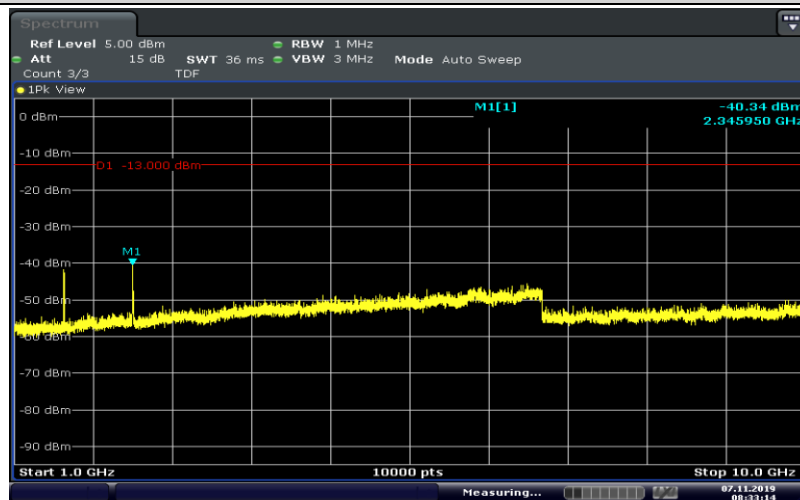
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Band13-5MHz-QPSK-23230-25RB#0-Range3:30~1000MHz



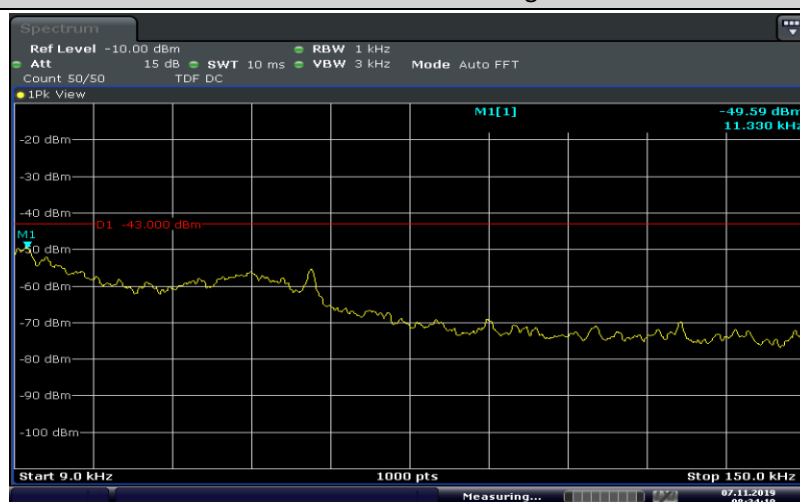
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Band13-5MHz-QPSK-23230-25RB#0-Range4:1000~10000MHz



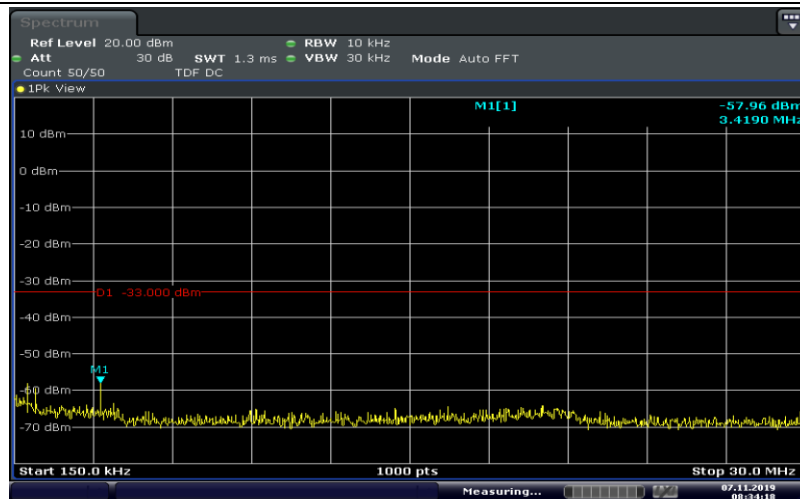
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Band13-5MHz-QPSK-23255-25RB#0-Range1:0.009~0.15MHz



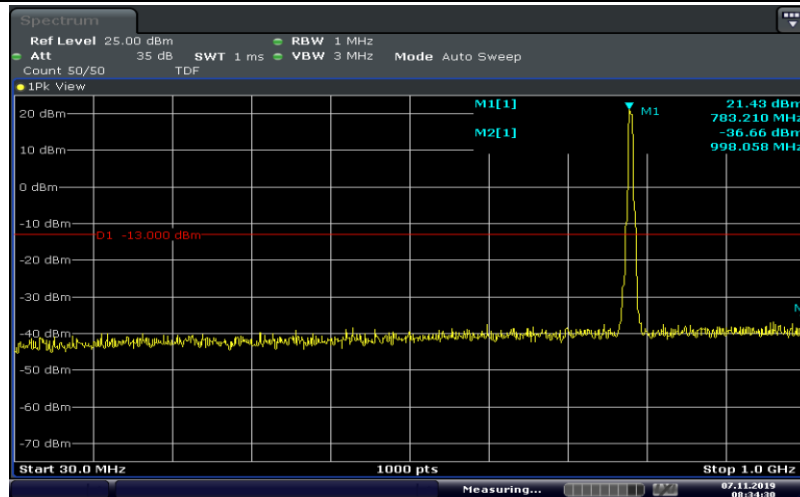
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Band13-5MHz-QPSK-23255-25RB#0-Range2:0.15~30MHz



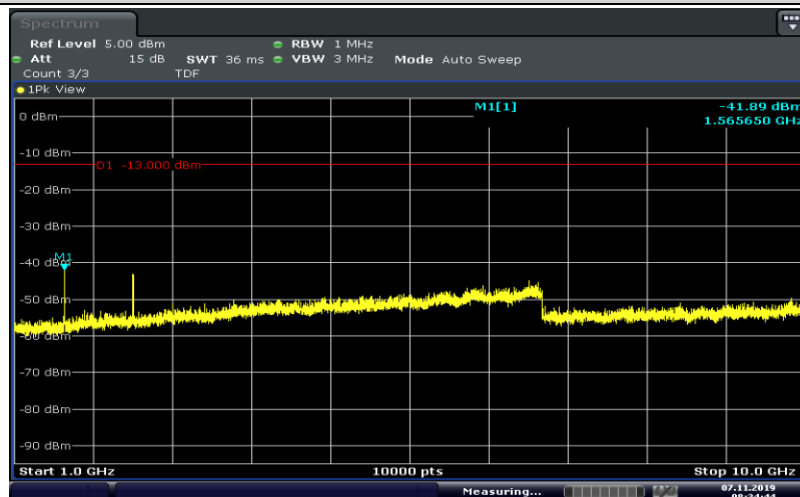
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Band13-5MHz-QPSK-23255-25RB#0-Range3:30~1000MHz



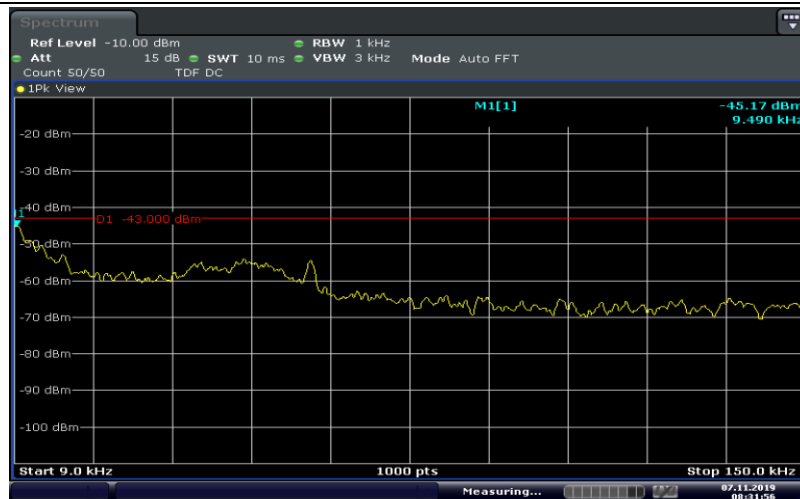
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Band13-5MHz-QPSK-23255-25RB#0-Range4:1000~10000MHz



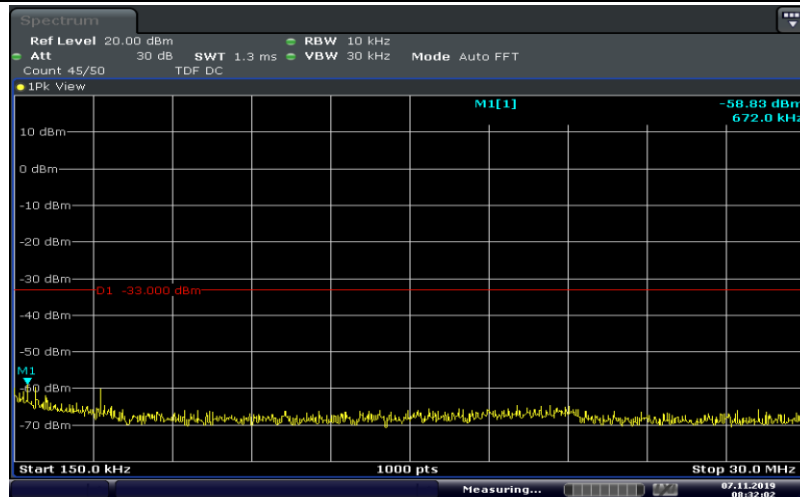
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Band13-5MHz-16QAM-23205-25RB#0-Range1:0.009~0.15MHz



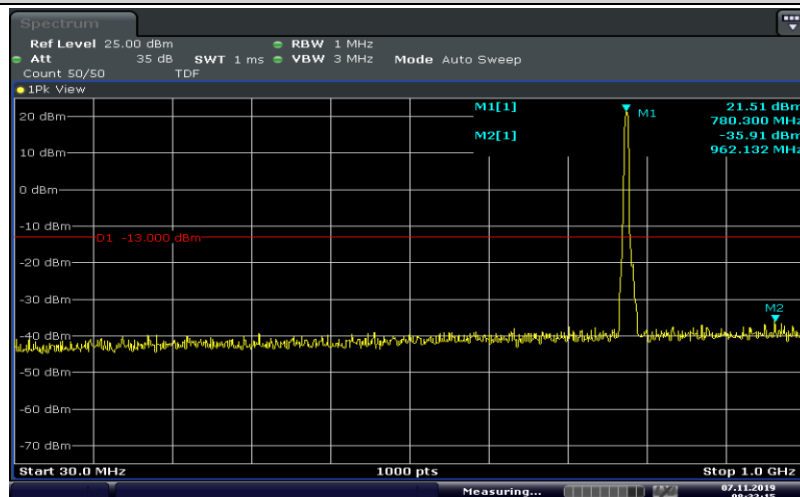
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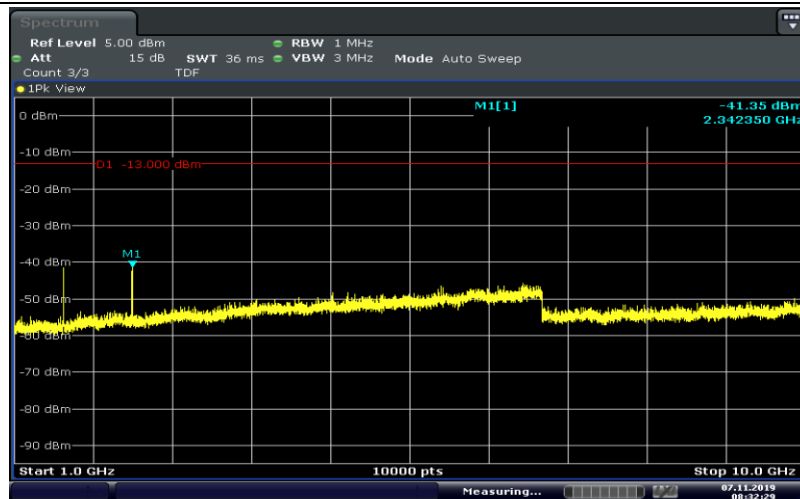
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Band13-5MHz-16QAM-23205-25RB#0-Range3:30~1000MHz



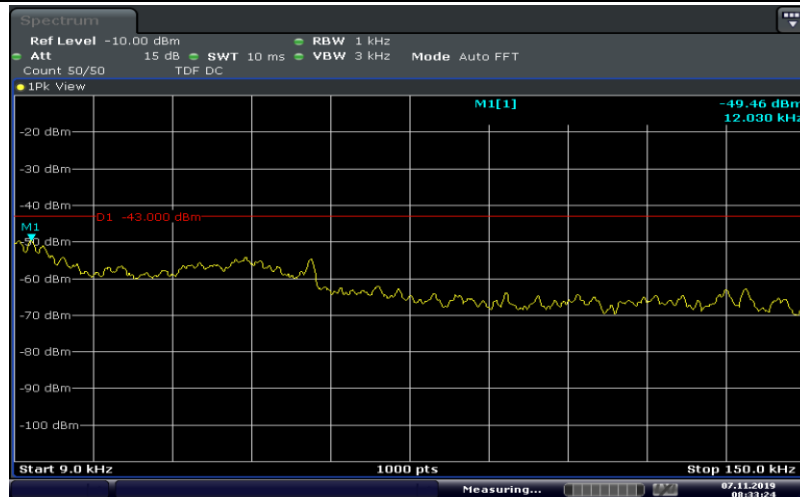
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Band13-5MHz-16QAM-23205-25RB#0-Range4:1000~10000MHz



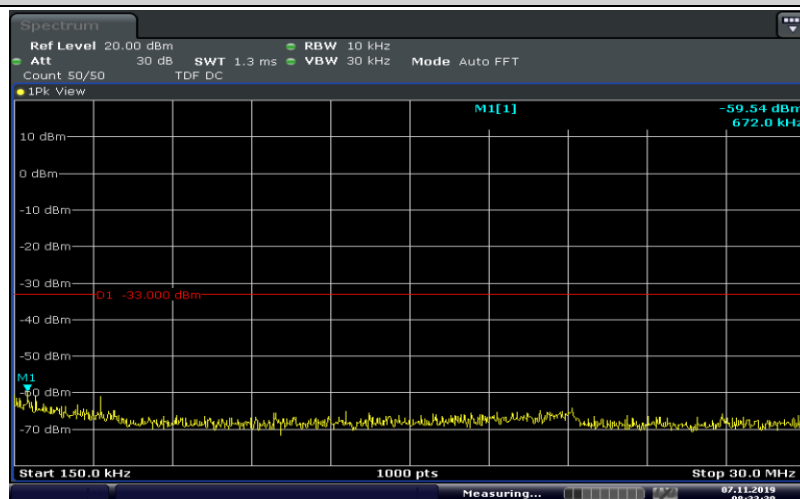
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Band13-5MHz-16QAM-23230-25RB#0-Range1:0.009~0.15MHz



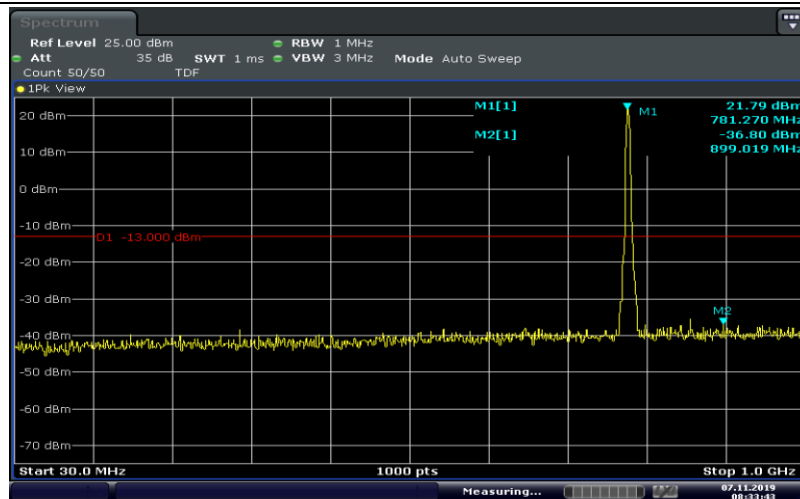
Date: 7.NOV.2019 08:33:24

Band13-5MHz-16QAM-23230-25RB#0-Range2:0.15~30MHz



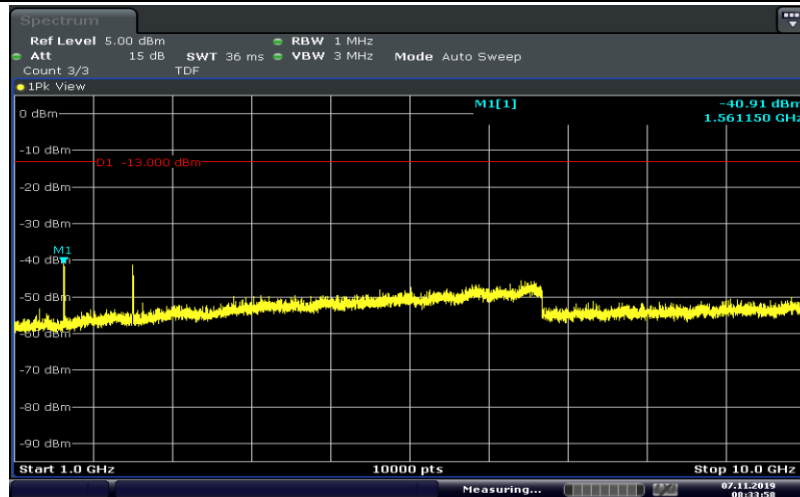
Date: 7.NOV.2019 08:33:31

Band13-5MHz-16QAM-23230-25RB#0-Range3:30~1000MHz



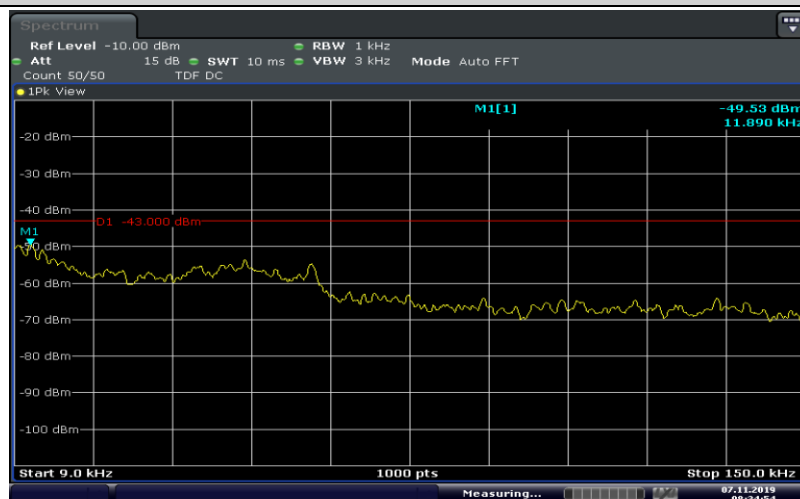
Date: 7.NOV.2019 08:33:43

Band13-5MHz-16QAM-23230-25RB#0-Range4:1000~10000MHz



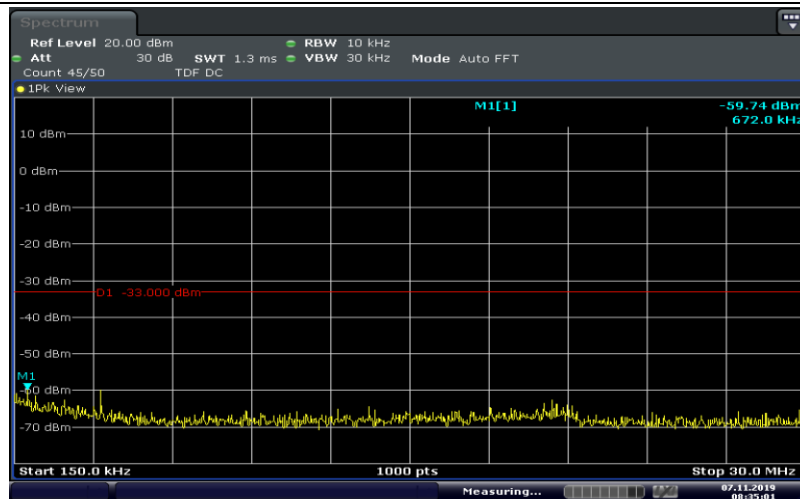
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Band13-5MHz-16QAM-23255-25RB#0-Range1:0.009~0.15MHz



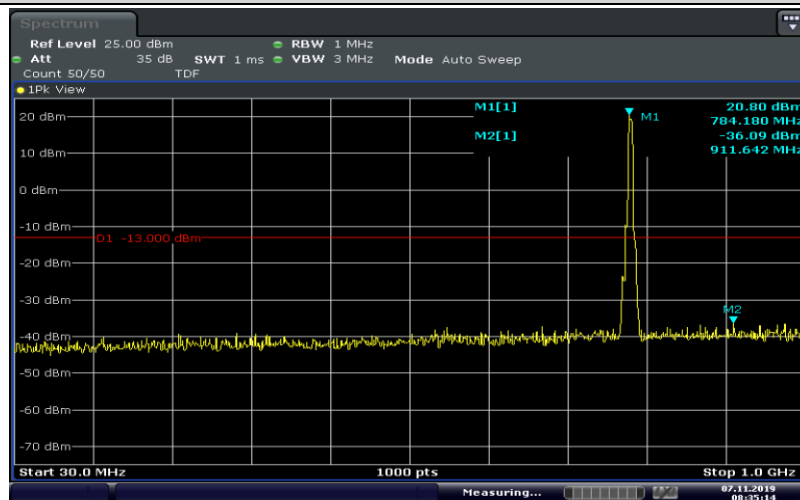
Date: 7.NOV.2019 08:34:55

Band13-5MHz-16QAM-23255-25RB#0-Range2:0.15~30MHz



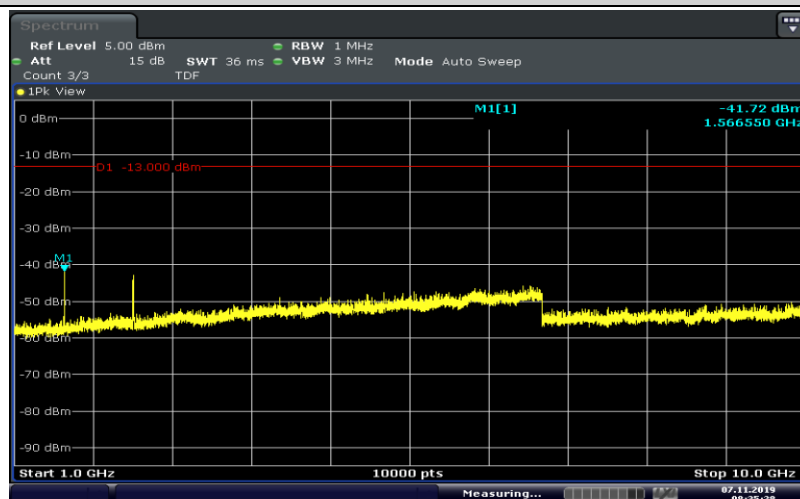
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Band13-5MHz-16QAM-23255-25RB#0-Range3:30~1000MHz



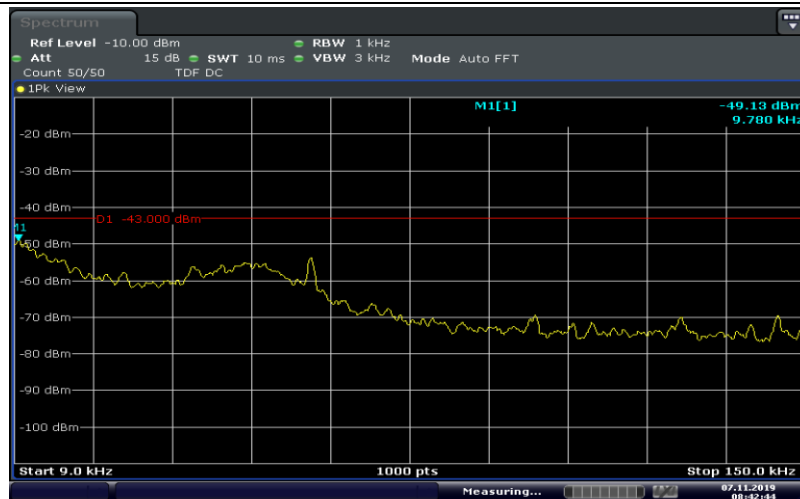
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Band13-5MHz-16QAM-23255-25RB#0-Range4:1000~10000MHz



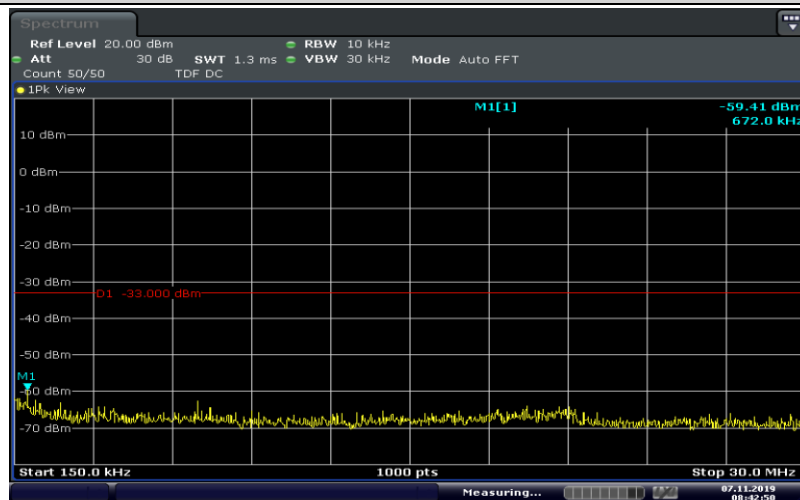
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Band13-10MHz-QPSK-23230-50RB#0-Range1:0.009~0.15MHz



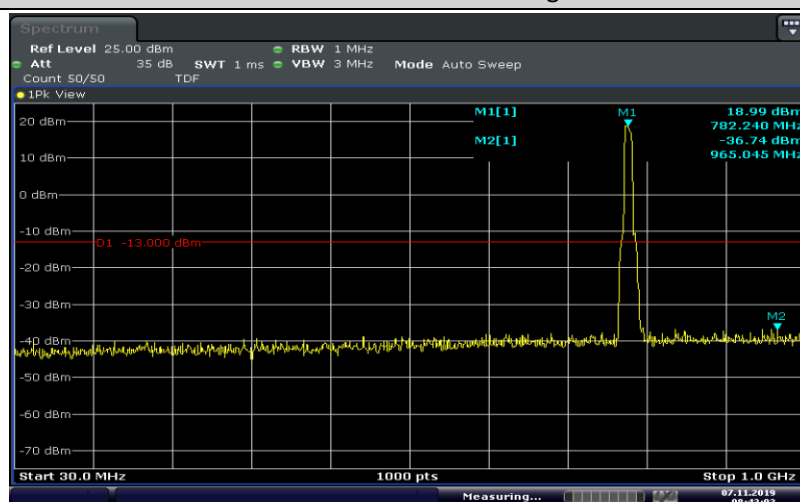
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Band13-10MHz-QPSK-23230-50RB#0-Range2:0.15~30MHz



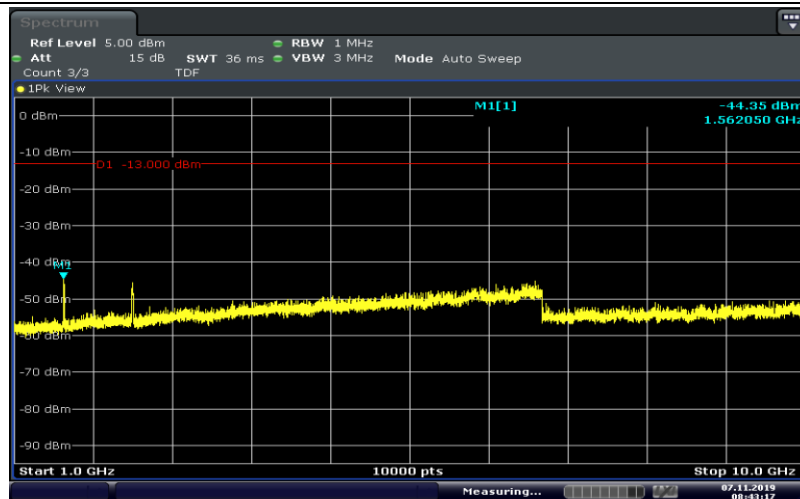
Date: 7.NOV.2019 08:42:50

Band13-10MHz-QPSK-23230-50RB#0-Range3:30~1000MHz



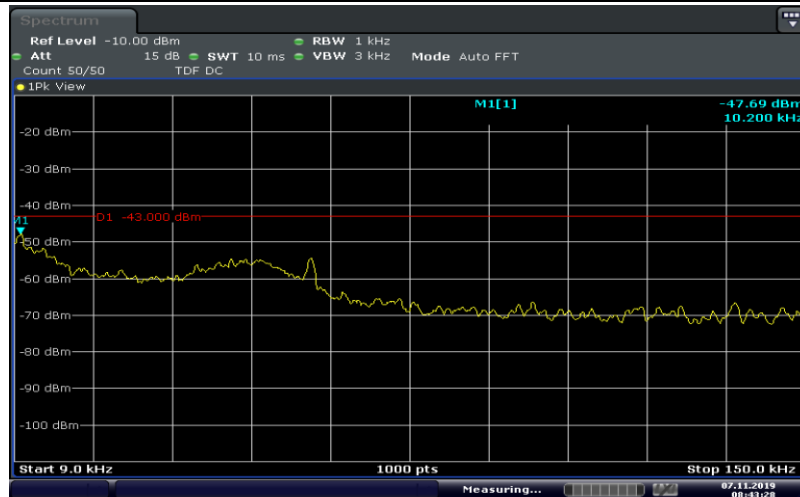
Date: 7.NOV.2019 08:43:03

Band13-10MHz-QPSK-23230-50RB#0-Range4:1000~10000MHz



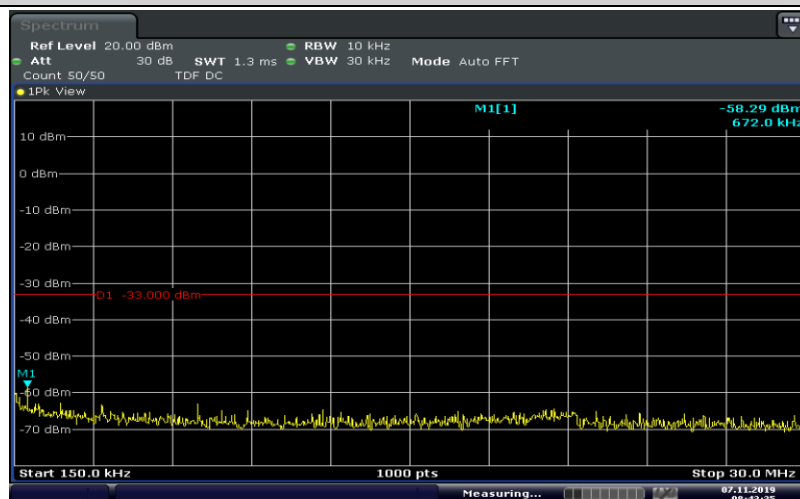
Date: 7.NOV.2019 08:43:17

Band13-10MHz-16QAM-23230-50RB#0-Range1:0.009~0.15MHz



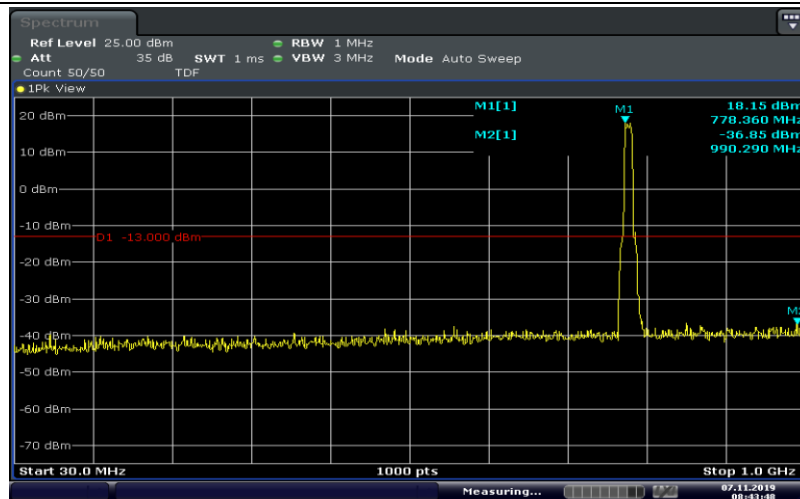
Date: 7.NOV.2019 08:43:28

Band13-10MHz-16QAM-23230-50RB#0-Range2:0.15~30MHz



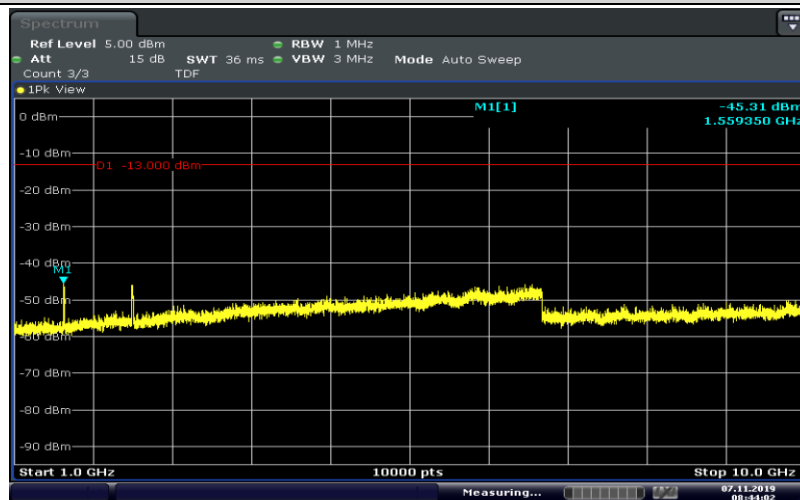
Date: 7.NOV.2019 08:43:35

Band13-10MHz-16QAM-23230-50RB#0-Range3:30~1000MHz



Date: 7.NOV.2019 08:43:48

Band13-10MHz-16QAM-23230-50RB#0-Range4:1000~10000MHz



Date: 7.NOV.2019 08:44:02

Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
@FCC_Frequency_stability@										
BandName	Bandwidth	Modulation	Channel	RBcfg	VolValue	TempValue	ValueHz	ValuePpm	Limit	Verdict

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
@FCC_Frequency_stability_Temperature@										
BandName	Bandwidth	Modulation	Channel	RBcfg	VolValue	TempValue	ValueHz	ValuePpm	Limit	Verdict