Appendix B

E-UTRA Band 5

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CONTENT

1 EFFECTIVE (ISOTROPIC) RADIATED POWER....3

1.1. TEST RESULT....3

2. PEAK-TO-AVERAGE RATIO (CCDF)....9

2.1. TEST RESULT....9

2.2. TEST PLOTS....9

3. MODULATION CHARACTERISTICS....13

3.1. TEST MODE = LTE /TM1 10MHZ....13

3.1.1. TEST CHANNEL = MCH....13

3.2. TEST MODE = LTE /TM2 10MHZ....14

3.2.1. TEST CHANNEL = MCH....14

4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH....15

4.1. TEST RESULT....15

4.2. TEST PLOTS....16

5. BAND EDGE COMPLIANCE....28

5.1. TEST PLOTS....28

6. SPURIOUS EMISSION AT ANTENNA TERMINAL....52

6.1. TEST PLOTS....52

7. FIELD STRENGTH OF SPURIOUS RADIATION....59

7.1. TEST MODE =LTE/TM1 10MHZ....59

7.1.1. TEST CHANNEL = LCH....59

7.1.2. TEST CHANNEL = MCH....59

7.1.3. TEST CHANNEL = HCH....60

8. FREQUENCY STABILITY....61

8.1. FREQUENCY VS VOLTAGE....61

8.2. FREQUENCY VS TEMPERATURE....61

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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	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.3	18.11	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.38	18.19	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.21	18.02	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.41	18.22	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.57	18.38	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.42	18.23	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.4	17.21	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.23	18.04	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.36	18.17	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.4	18.21	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.39	18.2	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.4	18.21	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.56	18.37	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.38	17.19	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.29	18.1	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.49	18.3	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.4	18.21	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.46	18.27	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.52	18.33	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.48	18.29	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.45	17.26	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.24	17.05	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.66	17.47	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.37	17.18	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.31	17.12	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.5	17.31	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.47	17.28	38.45	PASS

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Band5	1.4MHz	16QAM	20407	6RB#0	21.53	16.34	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.55	17.36	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.47	17.28	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.33	17.14	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.39	17.2	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.28	17.09	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	22.26	17.07	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.67	16.48	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.47	17.28	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.64	17.45	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.87	17.68	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	22.39	17.2	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	22.48	17.29	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	22.5	17.31	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.57	16.38	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.2	18.01	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.56	18.37	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.39	18.2	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.4	17.21	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.32	17.13	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.37	17.18	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.38	17.19	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.36	18.17	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.56	18.37	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.28	18.09	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.4	17.21	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.33	17.14	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.41	17.22	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.46	17.27	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.28	18.09	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.68	18.49	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.34	18.15	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.47	17.28	38.45	PASS

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Band5	3MHz	QPSK	20635	8RB#7	22.59	17.4	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.52	17.33	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.55	17.36	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.84	17.65	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.95	17.76	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.33	17.14	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.41	16.22	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.44	16.25	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.41	16.22	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.27	16.08	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.29	17.1	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.77	17.58	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.57	17.38	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.53	16.34	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.57	16.38	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.36	16.17	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.45	16.26	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.67	17.48	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.74	17.55	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.78	17.59	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.48	16.29	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	21.6	16.41	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.6	16.41	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.65	16.46	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.28	18.09	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.52	18.33	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.33	18.14	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.4	17.21	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.39	17.2	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.34	17.15	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.37	17.18	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.19	18	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.37	18.18	38.45	PASS

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Band5	5MHz	QPSK	20525	1RB#12	23.26	18.07	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.37	17.18	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.4	17.21	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.41	17.22	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.4	17.21	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.29	18.1	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.51	18.32	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.35	18.16	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.44	17.25	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.42	17.23	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.39	17.2	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.49	17.3	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.23	17.04	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.86	17.67	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.84	17.65	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.37	16.18	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#0	21.54	16.35	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.59	16.4	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.41	16.22	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.57	17.38	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.39	17.2	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.48	17.29	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.44	16.25	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.41	16.22	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.46	16.27	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.34	16.15	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.28	17.09	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.6	17.41	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.19	17	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.54	16.35	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.62	16.43	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.33	16.14	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.4	16.21	38.45	PASS

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Band5	10MHz	QPSK	20450	1RB#49	23.39	18.2	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.49	18.3	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.39	18.2	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.38	17.19	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.47	17.28	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.42	17.23	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.45	17.26	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.35	18.16	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.58	18.39	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.4	18.21	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.5	17.31	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.45	17.26	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.59	17.4	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.43	17.24	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.32	18.13	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.52	18.33	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.36	18.17	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.54	17.35	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.45	17.26	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.41	17.22	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.49	17.3	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.47	17.28	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.54	17.35	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.64	17.45	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.53	16.34	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.47	16.28	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.41	16.22	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.56	16.37	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.87	17.68	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.65	17.46	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.92	17.73	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.6	16.41	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.5	16.31	38.45	PASS

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Band5	10MHz	16QAM	20525	25RB#12	21.64	16.45	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.46	16.27	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.64	17.45	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.85	17.66	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.56	17.37	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.58	16.39	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.56	16.37	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.38	16.19	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.55	16.36	38.45	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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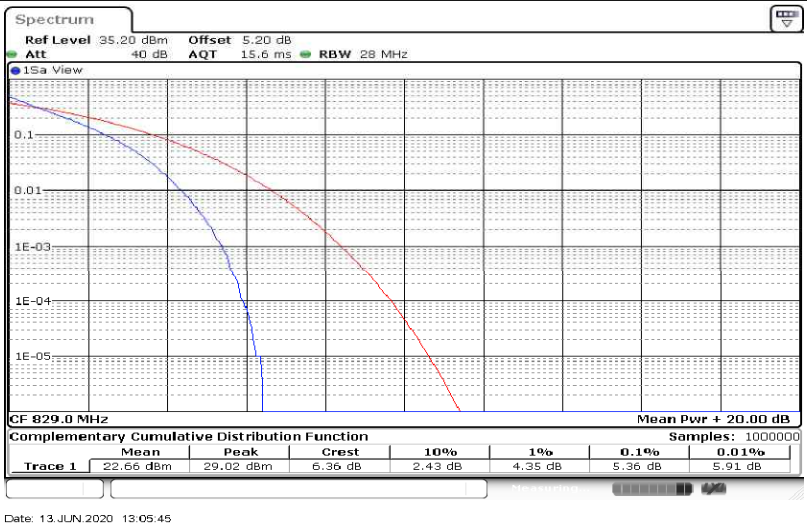
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.36	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.59	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.33	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.12	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.26	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.00	13	PASS

2.2. Test Plots

Band5-10MHz-QPSK-20450-50RB#0



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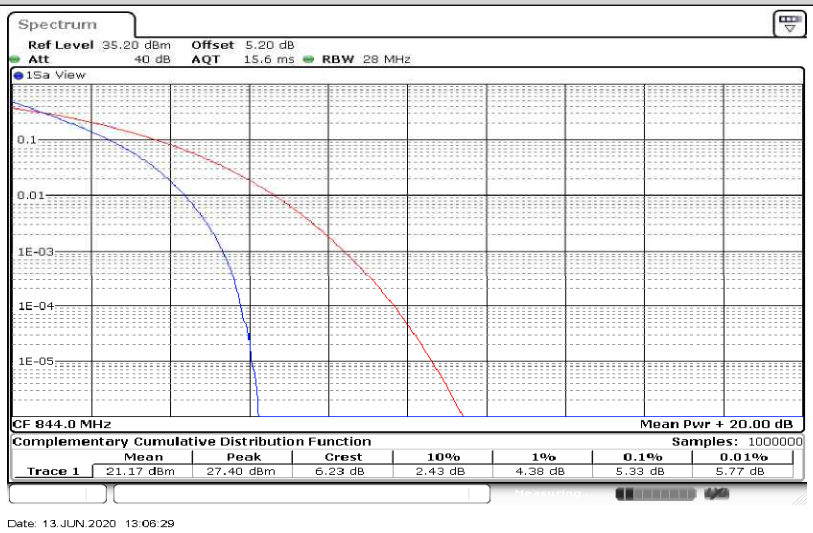
Band5-10MHz-QPSK-20525-50RB#0

Band5-10MHz-QPSK-20600-50RB#0



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Band5-10MHz-16QAM-20450-50RB#0

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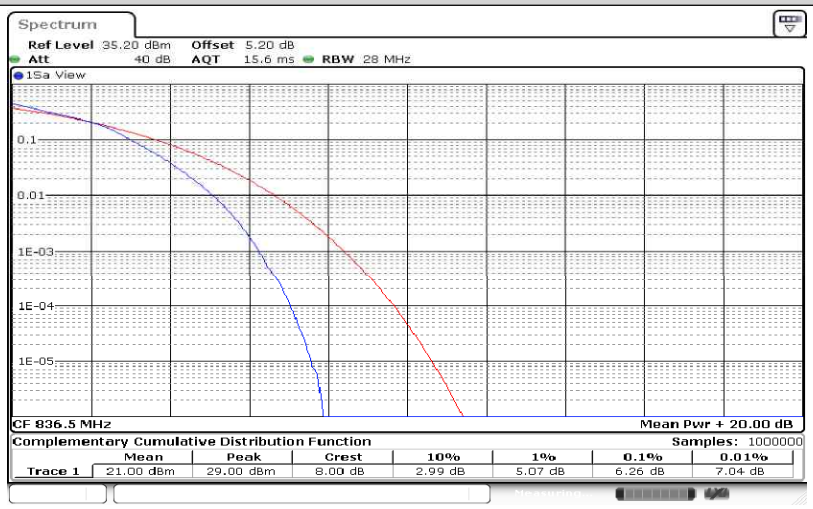
Band5-10MHz-16QAM-20525-50RB#0



Date: 13.JUN.2020 13:06:18

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Band5-10MHz-16QAM-20600-50RB#0

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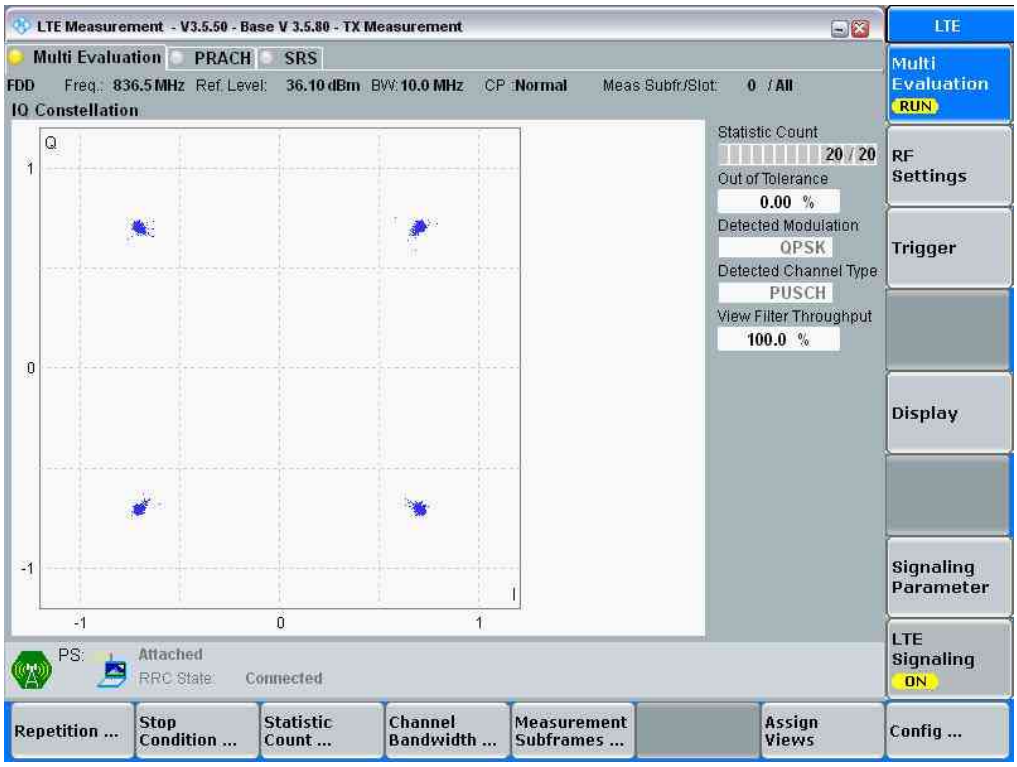
3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1.Test Channel = MCH



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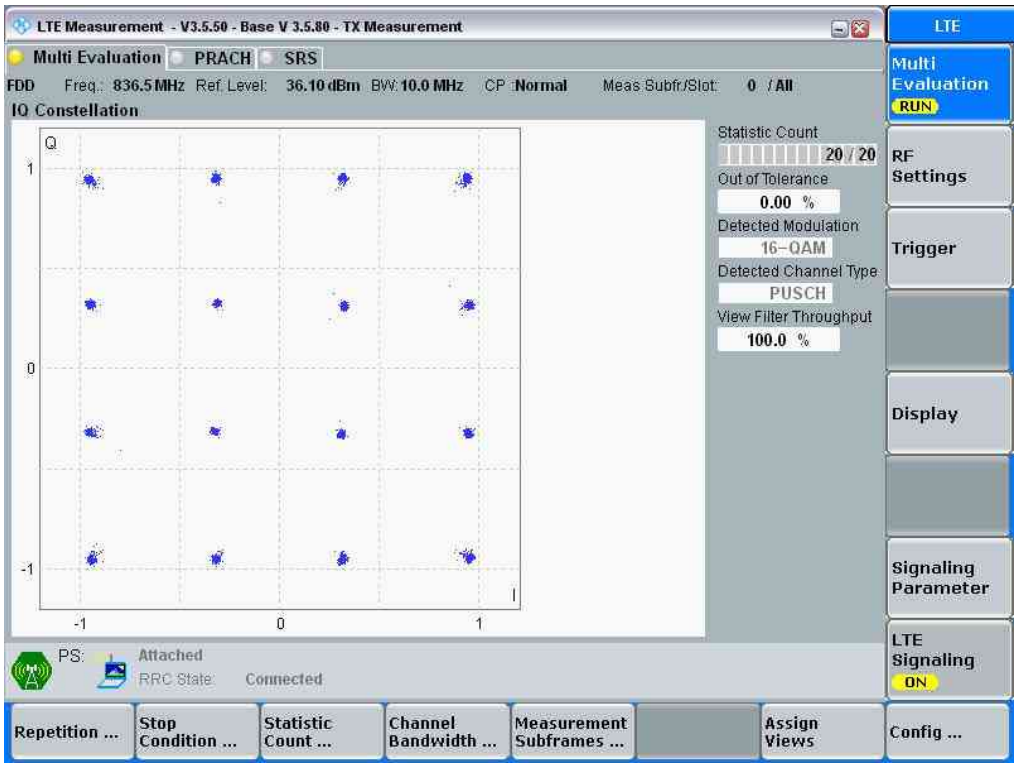
3.2. Test Mode = LTE /TM2 10MHz

3.2.1.Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.091	1.290	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.091	1.284	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.091	1.293	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.091	1.305	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.091	1.284	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.091	1.290	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.691	2.886	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.685	2.904	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.685	2.880	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.673	2.868	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.685	2.880	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.679	2.862	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.466	4.760	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.466	4.730	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.466	4.770	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.486	4.740	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.486	4.780	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.486	4.780	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.951	9.420	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.951	9.440	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.951	9.500	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.911	9.420	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.951	9.400	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.931	9.440	PASS

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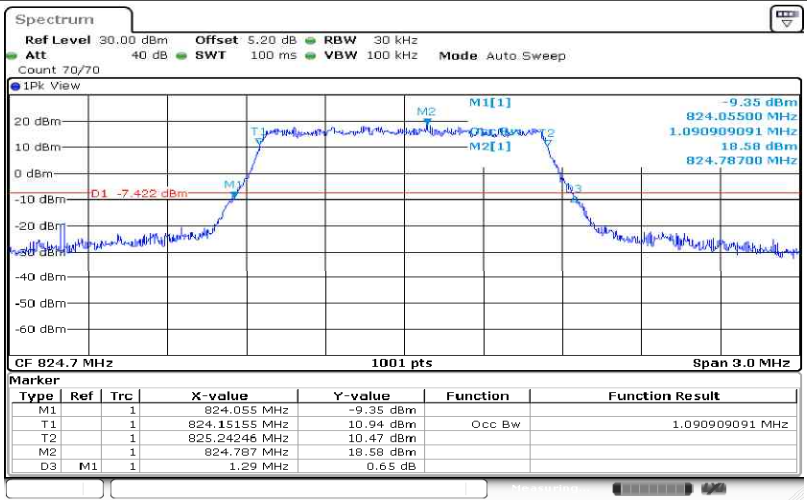
4.2. Test Plots

Band5-1.4MHz-QPSK-20407-6RB#0-1.091



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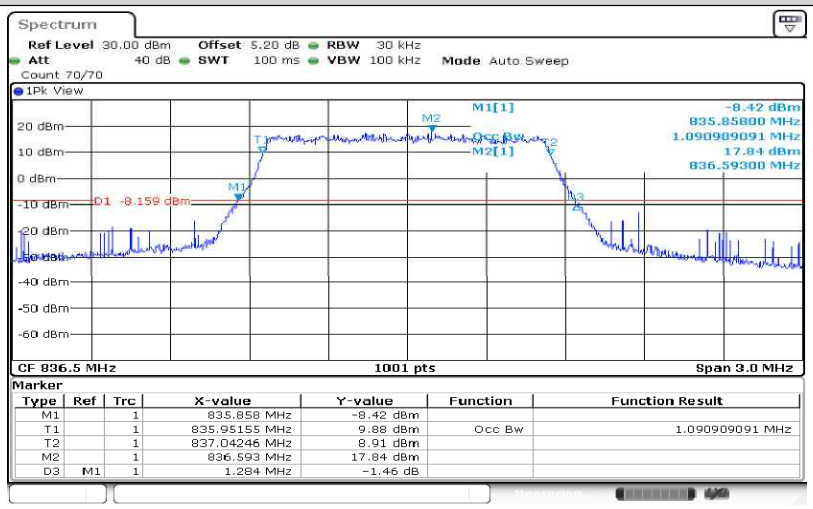

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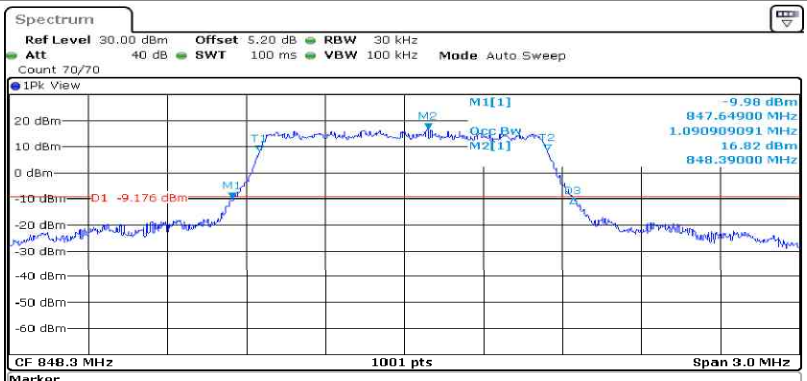
Band5-1.4MHz-QPSK-20643-6RB#0-1.091



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	847.649 MHz	-9.98 dBm		
T1		1	847.75155 MHz	8.27 dBm	Occ Bw	1.090909091 MHz
T2		1	848.84246 MHz	8.45 dBm		
M2		1	848.39 MHz	16.82 dBm		
D3	M1	1	1.293 MHz	0.43 dB		

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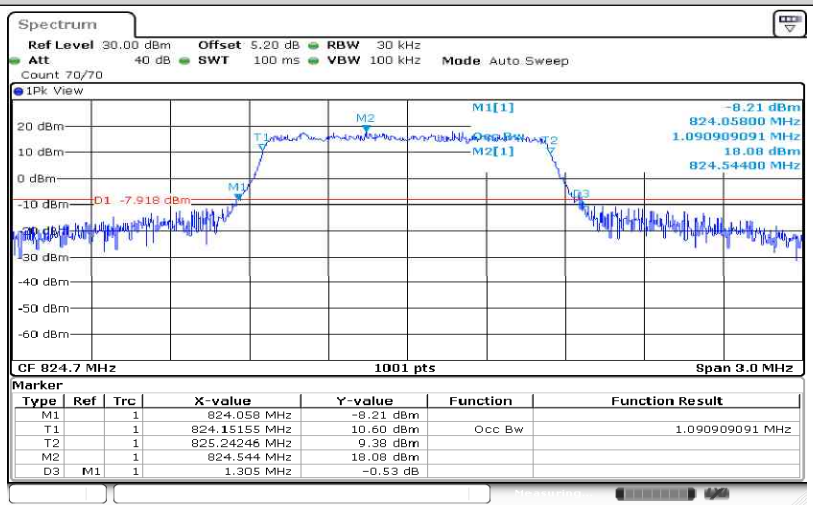
Band5-1.4MHz-16QAM-20407-6RB#0-1.091



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	824.058 MHz	-8.21 dBm		
T1		1	824.15155 MHz	10.60 dBm	Occ Bw	1.090909091 MHz
T2		1	825.24246 MHz	9.38 dBm		
M2		1	824.544 MHz	18.08 dBm		
D3	M1	1	1.305 MHz	-0.53 dB		

Date: 13.JUN.2020 12:29:29

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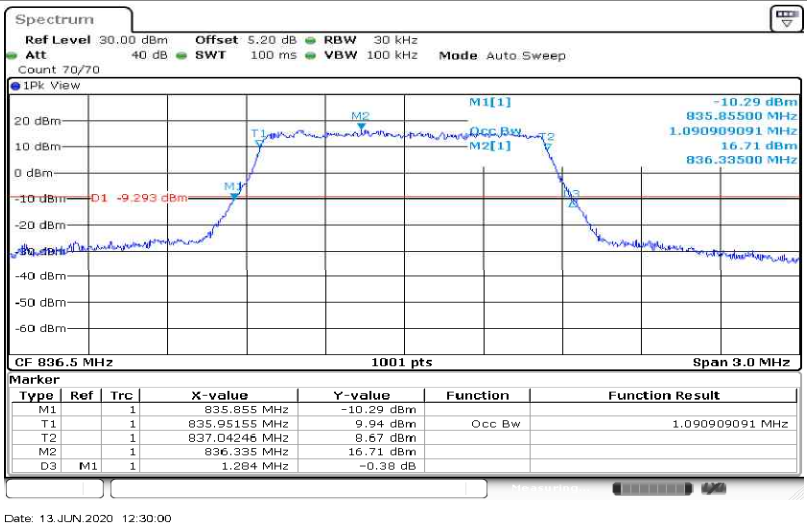
Band5-1.4MHz-16QAM-20525-6RB#0-1.091



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	835.855 MHz	-10.29 dBm		
T1		1	835.95155 MHz	9.94 dBm	Occ Bw	1.090909091 MHz
T2		1	837.04246 MHz	8.67 dBm		
M2		1	836.335 MHz	16.71 dBm		
D3	M1	1	1.284 MHz	-0.38 dB		

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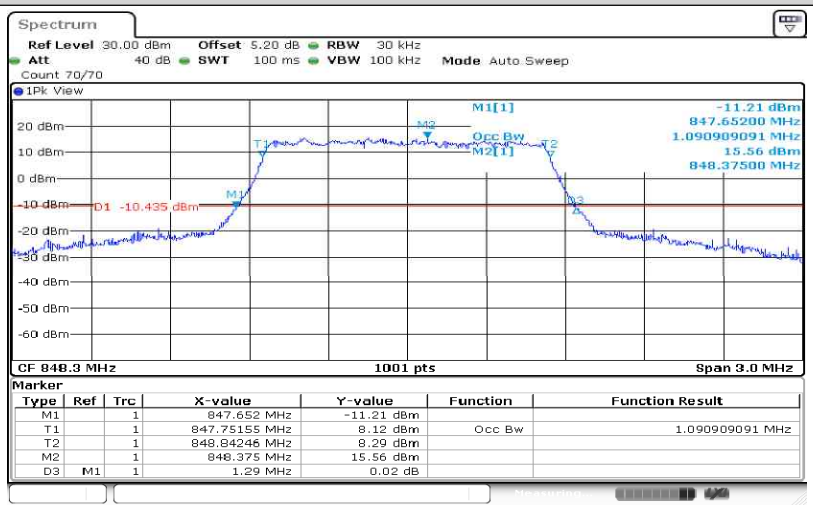
Band5-1.4MHz-16QAM-20643-6RB#0-1.091



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	847.652 MHz	-11.21 dBm		
T1		1	847.75155 MHz	8.12 dBm	Occ Bw	1.090909091 MHz
T2		1	848.84246 MHz	8.29 dBm		
M2		1	848.375 MHz	15.56 dBm		
D3	M1	1	1.29 MHz	0.02 dB		

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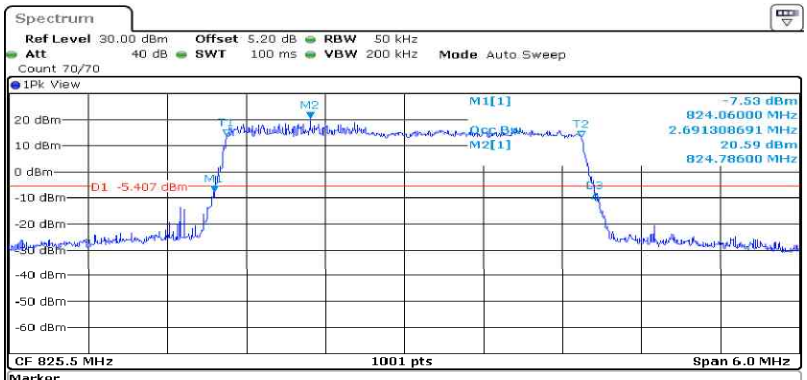
Band5-3MHz-QPSK-20415-15RB#0-2.691



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	824.06 MHz	-7.53 dBm		
T1		1	824.15135 MHz	13.91 dBm	Occ Bw	2.691308691 MHz
T2		1	826.84266 MHz	13.19 dBm		
M2		1	824.786 MHz	20.59 dBm		
D3	M1	1	2.886 MHz	-0.49 dB		

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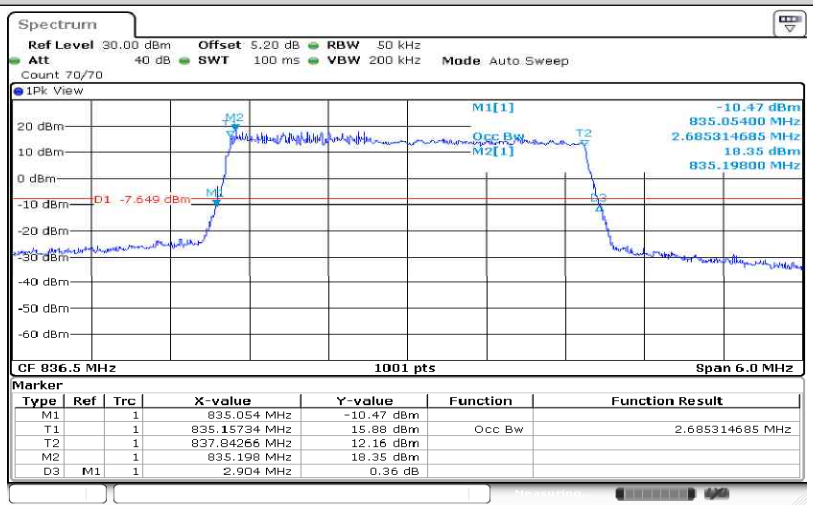
Band5-3MHz-QPSK-20525-15RB#0-2.685



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	835.054 MHz	-10.47 dBm		
T1		1	835.15734 MHz	15.88 dBm	Occ Bw	2.685314685 MHz
T2		1	837.84266 MHz	12.16 dBm		
M2		1	835.198 MHz	18.35 dBm		
D3	M1	1	2.904 MHz	0.36 dB		

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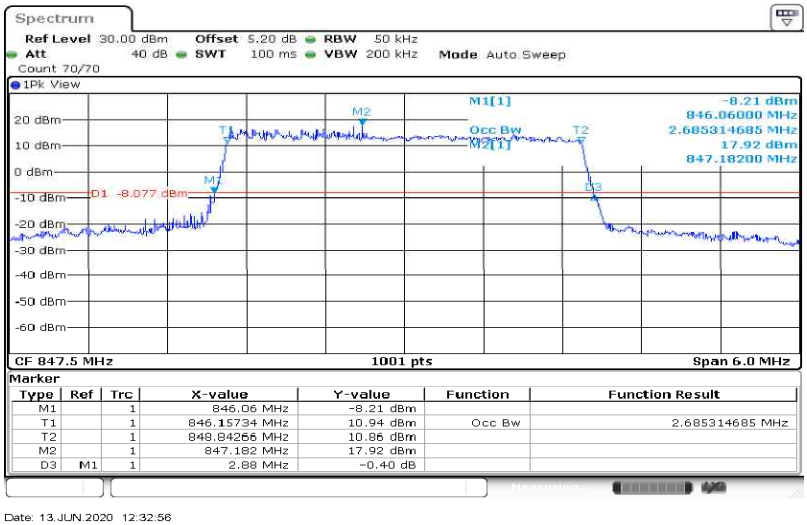
Band5-3MHz-QPSK-20635-15RB#0-2.685



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	846.06 MHz	-8.21 dBm		
T1		1	846.15734 MHz	10.94 dBm	Occ Bw	2.685314685 MHz
T2		1	848.84266 MHz	10.86 dBm		
M2		1	847.182 MHz	17.92 dBm		
D3	M1	1	2.88 MHz	-0.40 dB		

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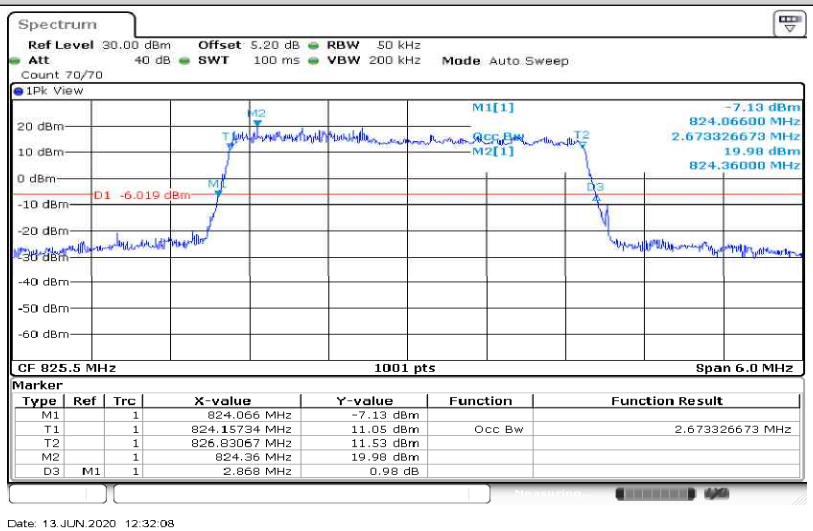
Band5-3MHz-16QAM-20415-15RB#0-2.673



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	824.066 MHz	-7.13 dBm		
T1		1	824.15734 MHz	11.05 dBm	Occ Bw	2.673326673 MHz
T2		1	826.83067 MHz	11.53 dBm		
M2		1	824.36 MHz	19.98 dBm		
D3	M1	1	2.868 MHz	0.98 dB		

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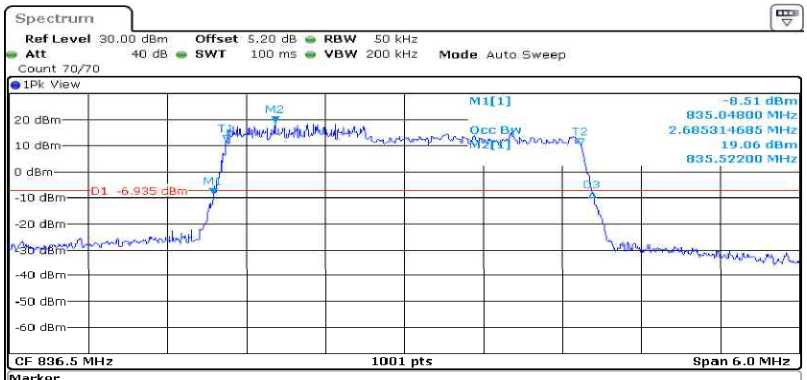
Band5-3MHz-16QAM-20525-15RB#0-2.685



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	835.048 MHz	-8.51 dBm		
T1		1	835.15135 MHz	11.58 dBm	Occ Bw	2.685314685 MHz
T2		1	837.83666 MHz	10.52 dBm		
M2		1	835.522 MHz	19.06 dBm		
D3	M1	1	2.88 MHz	0.95 dB		

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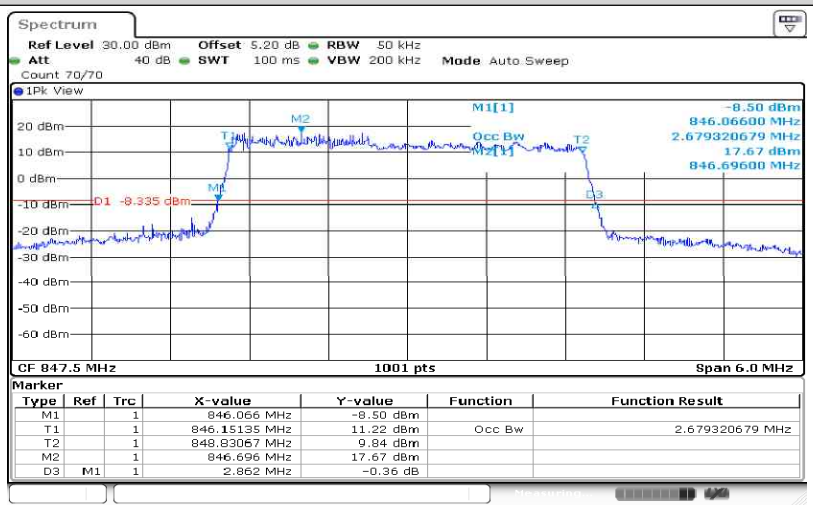
Band5-3MHz-16QAM-20635-15RB#0-2.679



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	846.066 MHz	-8.50 dBm		
T1		1	846.15135 MHz	11.22 dBm	Occ Bw	2.679320679 MHz
T2		1	848.83067 MHz	9.84 dBm		
M2		1	846.696 MHz	17.67 dBm		
D3	M1	1	2.862 MHz	-0.36 dB		

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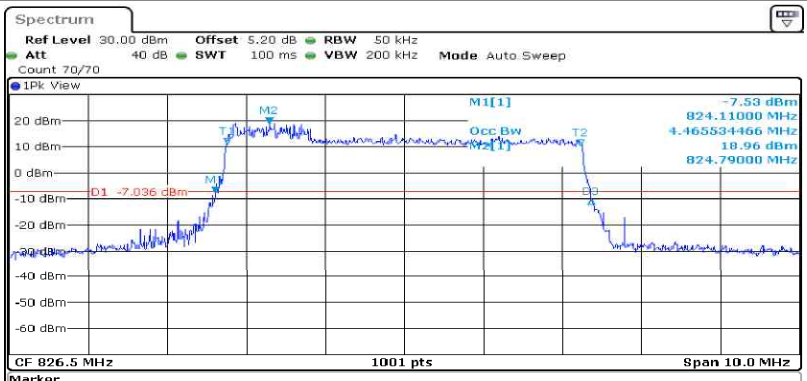
Band5-5MHz-QPSK-20425-25RB#0-4.466



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	824.11 MHz	-7.53 dBm		
T1		1	824.26224 MHz	11.13 dBm	Occ Bw	4.465534466 MHz
T2		1	828.72777 MHz	10.41 dBm		
M2		1	824.79 MHz	18.96 dBm		
D3	M1	1	4.76 MHz	-2.42 dB		

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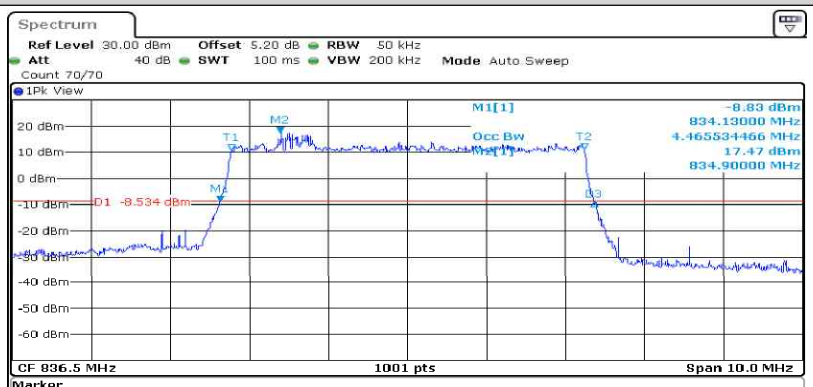
Band5-5MHz-QPSK-20525-25RB#0-4.466



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	834.13 MHz	-8.83 dBm		
T1		1	834.27223 MHz	10.66 dBm	Occ Bw	4.465534466 MHz
T2		1	838.73776 MHz	11.12 dBm		
M2		1	834.9 MHz	17.47 dBm		
D3	M1	1	4.73 MHz	0.29 dB		

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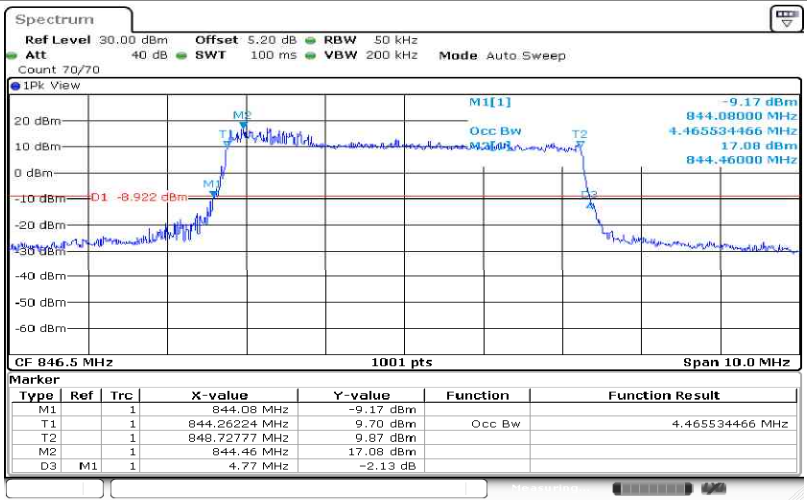

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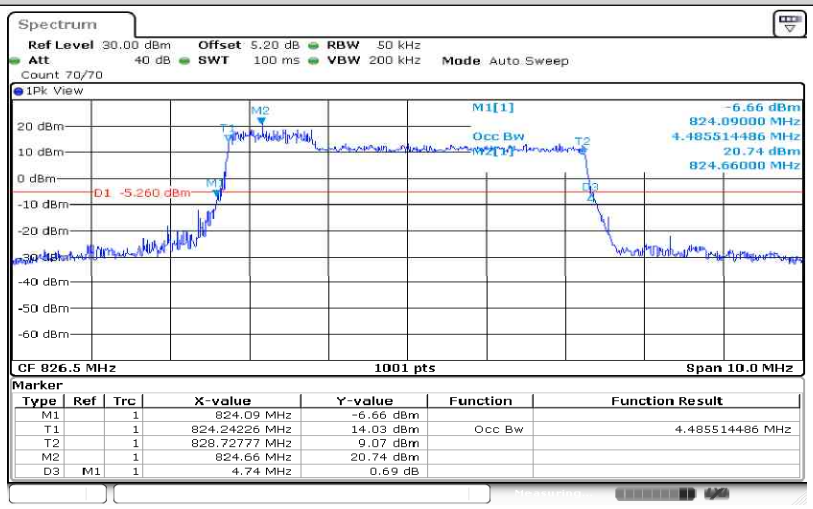
Band5-5MHz-16QAM-20425-25RB#0-4.486



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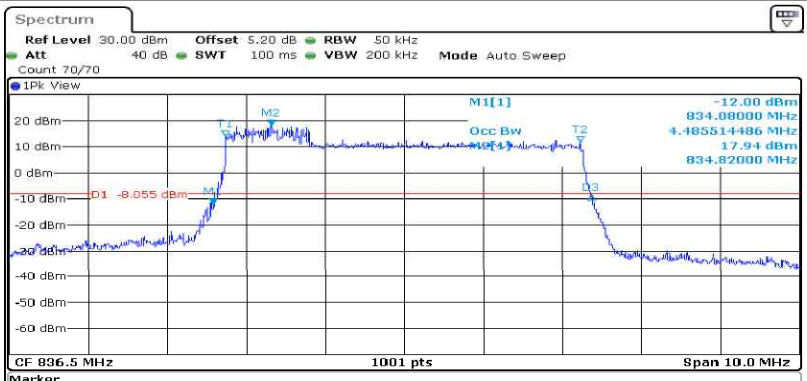
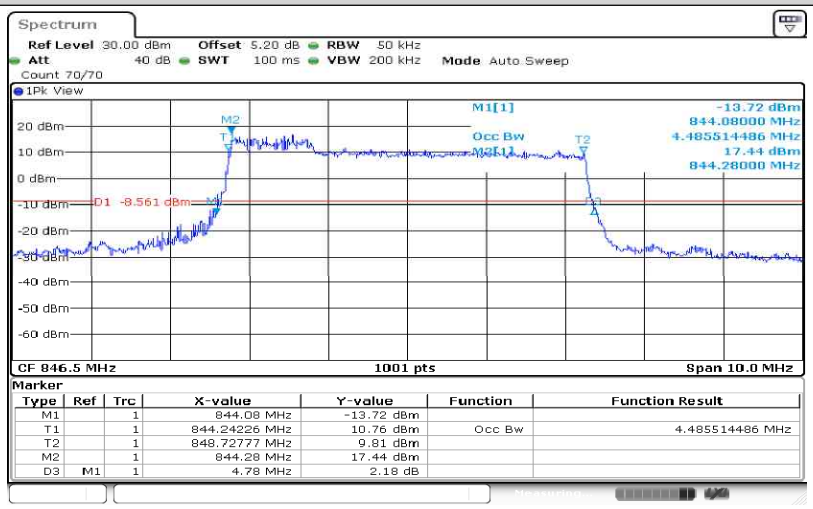


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	834.08 MHz	-12.00 dBm		
T1		1	834.24226 MHz	13.77 dBm	Occ Bw	4.485514486 MHz
T2		1	838.72777 MHz	11.50 dBm		
M2		1	834.82 MHz	17.94 dBm		
D3	M1	1	4.78 MHz	3.65 dB		

Date: 13.JUN.2020 12:34:58

Band5-5MHz-16QAM-20625-25RB#0-4.486



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	844.08 MHz	-13.72 dBm		
T1		1	844.24226 MHz	10.76 dBm	Occ Bw	4.485514486 MHz
T2		1	848.72777 MHz	9.81 dBm		
M2		1	844.28 MHz	17.44 dBm		
D3	M1	1	4.78 MHz	2.18 dB		

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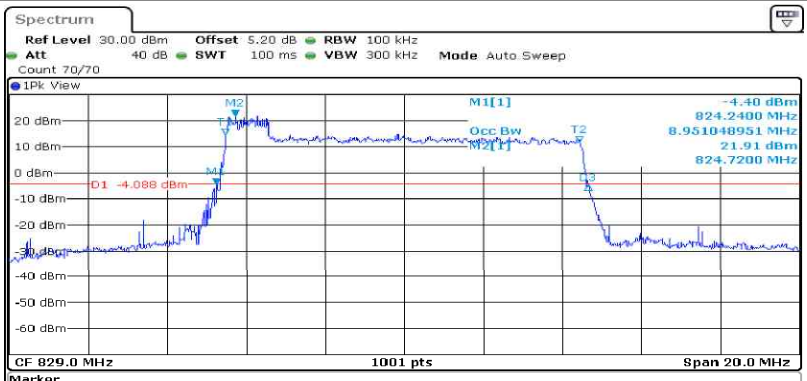
Band5-10MHz-QPSK-20450-50RB#0-8.951

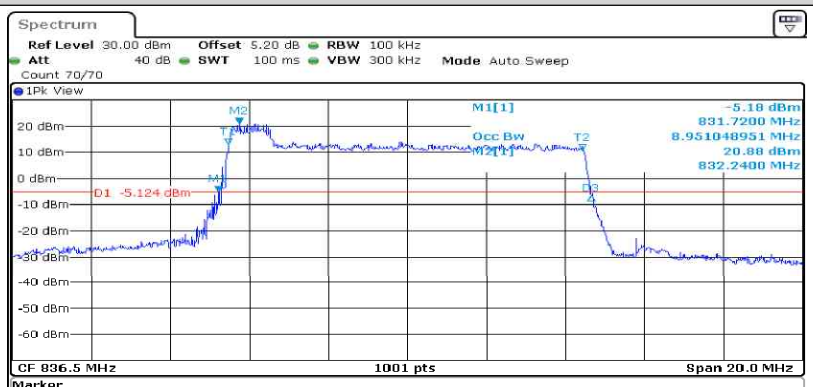


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	824.24 MHz	-4.40 dBm		
T1		1	824.4845 MHz	14.58 dBm	Occ Bw	8.951048951 MHz
T2		1	833.4356 MHz	11.50 dBm		
M2		1	824.72 MHz	21.91 dBm		
D3	M1	1	9.42 MHz	-0.14 dB		

Date: 13.JUN.2020 12:36:40

Band5-10MHz-QPSK-20525-50RB#0-8.951



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	831.72 MHz	-5.18 dBm		
T1		1	831.9845 MHz	13.01 dBm	Occ Bw	8.951048951 MHz
T2		1	840.9356 MHz	10.56 dBm		
M2		1	832.24 MHz	20.88 dBm		
D3	M1	1	9.44 MHz	-1.19 dB		

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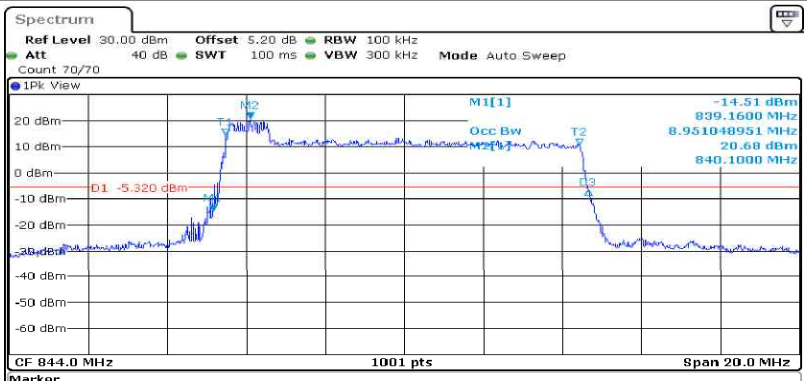
Band5-10MHz-QPSK-20600-50RB#0-8.951



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	839.16 MHz	-14.51 dBm		
T1		1	839.4845 MHz	14.43 dBm	Occ Bw	8.951048951 MHz
T2		1	848.4356 MHz	10.76 dBm		
M2		1	840.1 MHz	20.68 dBm		
D3	M1	1	9.5 MHz	8.12 dB		

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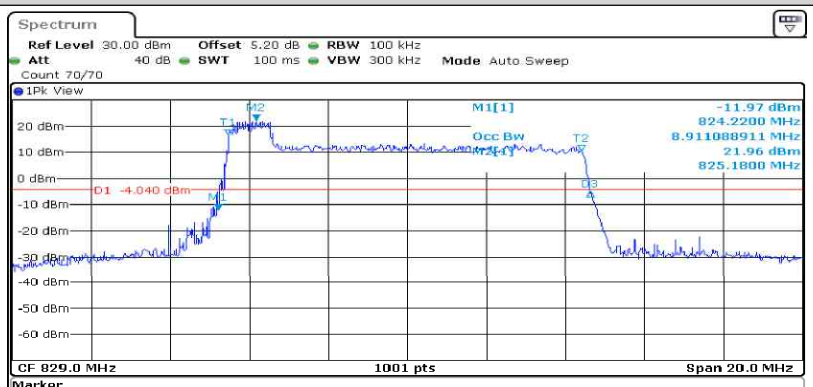
Band5-10MHz-16QAM-20450-50RB#0-8.911



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	824.22 MHz	-11.97 dBm		
T1		1	824.4845 MHz	16.54 dBm	Occ Bw	8.911088911 MHz
T2		1	833.3956 MHz	10.39 dBm		
M2		1	825.18 MHz	21.96 dBm		
D3	M1	1	9.42 MHz	7.19 dB		

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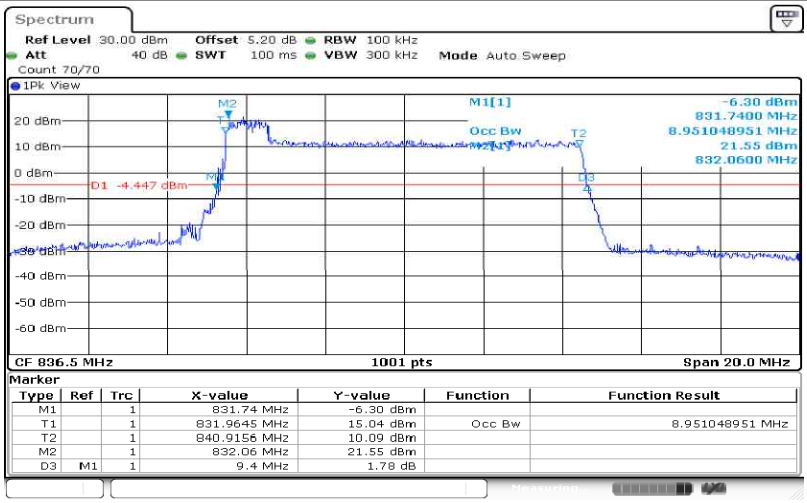

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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	831.74 MHz	-6.30 dBm		
T1		1	831.9645 MHz	15.04 dBm	Occ Bw	8.951048951 MHz
T2		1	840.9156 MHz	10.09 dBm		
M2		1	832.06 MHz	21.55 dBm		
D3	M1	1	9.4 MHz	1.78 dB		

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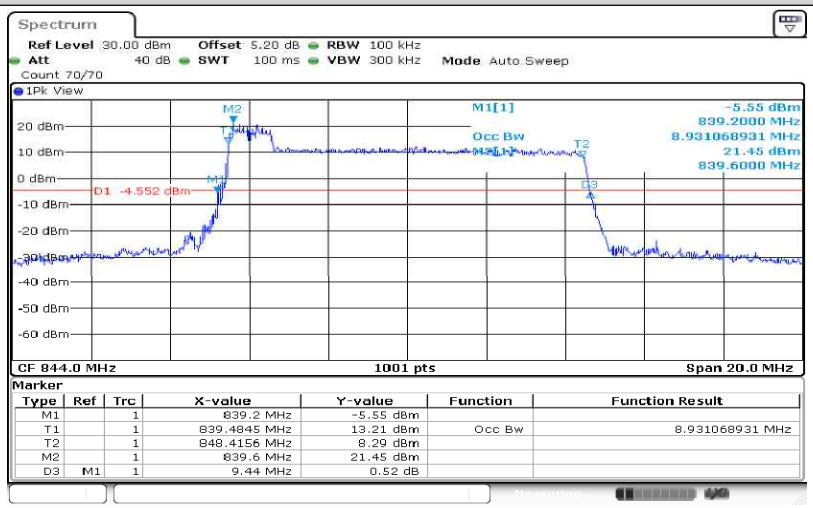
Band5-10MHz-16QAM-20600-50RB#0-8.931



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	839.2 MHz	-5.55 dBm		
T1		1	839.4845 MHz	13.21 dBm	Occ Bw	8.931068931 MHz
T2		1	848.4156 MHz	8.29 dBm		
M2		1	839.6 MHz	21.45 dBm		
D3	M1	1	9.44 MHz	0.52 dB		

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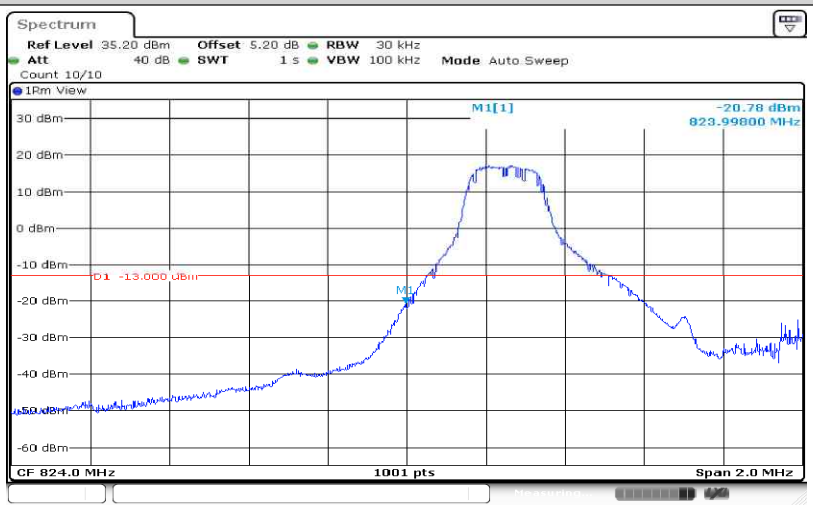
5. Band Edge Compliance

5.1. Test Plots

Band5-1.4MHz-QPSK-20407-1RB#0



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Band5-1.4MHz-QPSK-20407-6RB#0

Date: 13.JUN.2020 12:39:19

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Band5-1.4MHz-QPSK-20643-1RB#5

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Band5-1.4MHz-QPSK-20643-6RB#0

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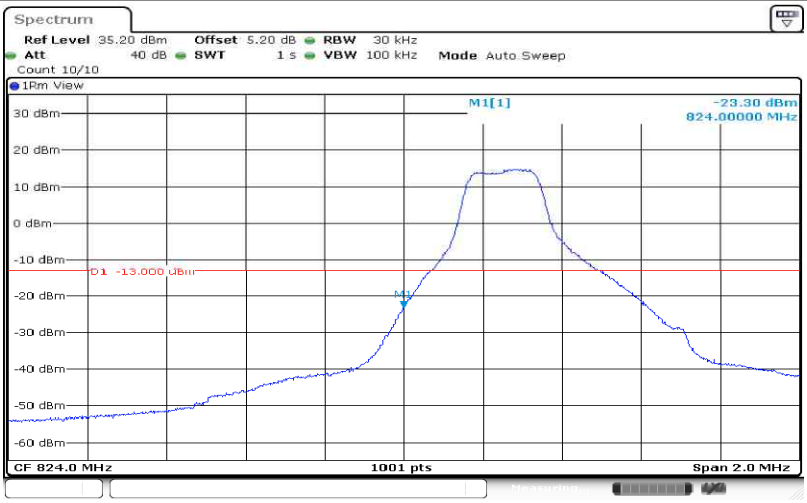
Band5-1.4MHz-64QAM-20407-1RB#0



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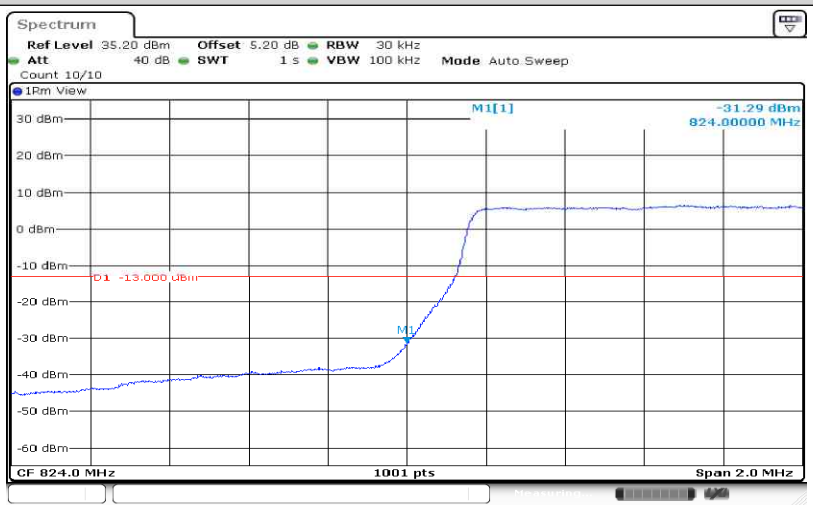
Band5-1.4MHz-64QAM-20407-6RB#0



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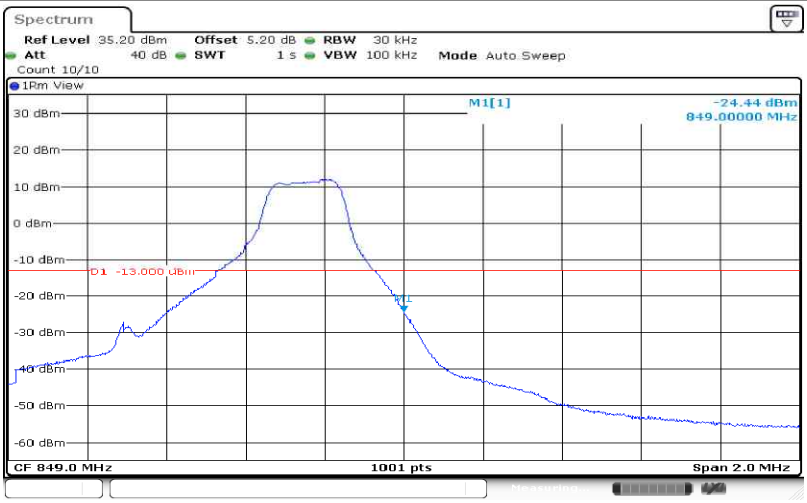
Band5-1.4MHz-64QAM-20643-1RB#5



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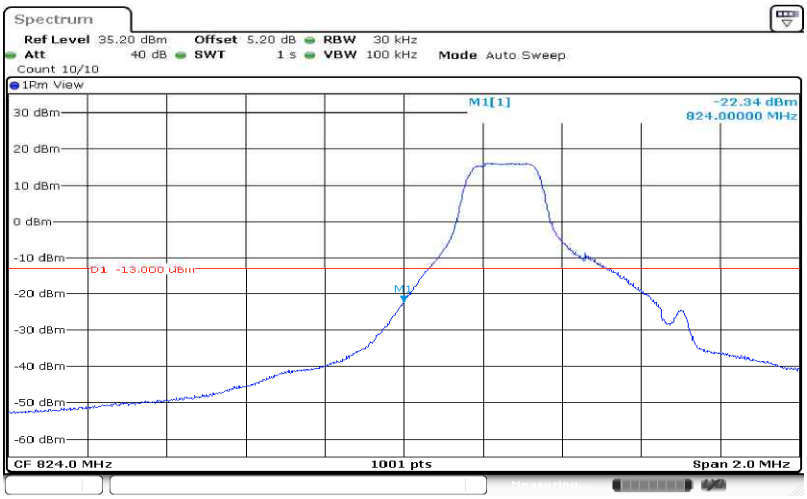

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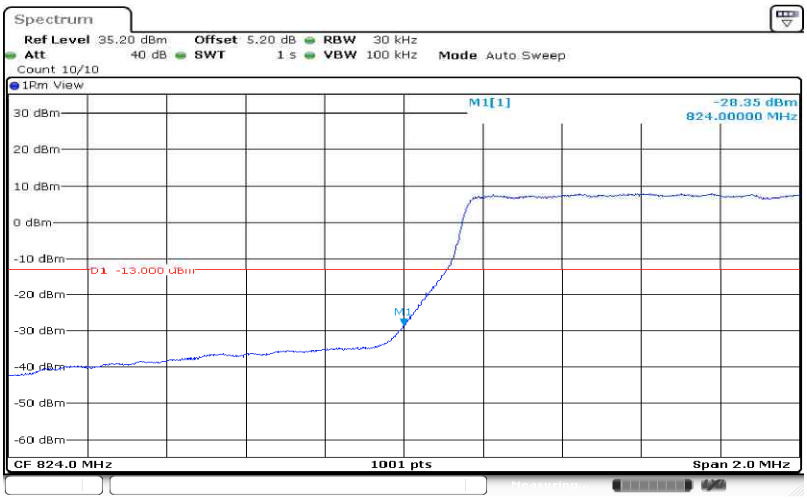

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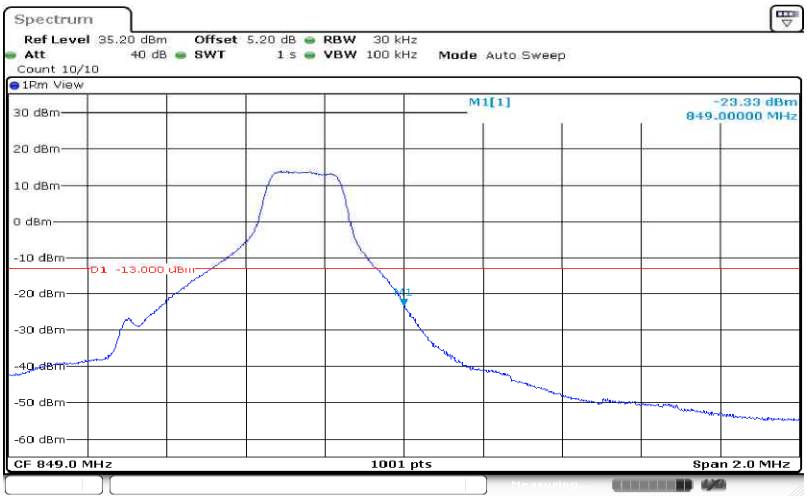

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Band5-1.4MHz-16QAM-20643-6RB#0

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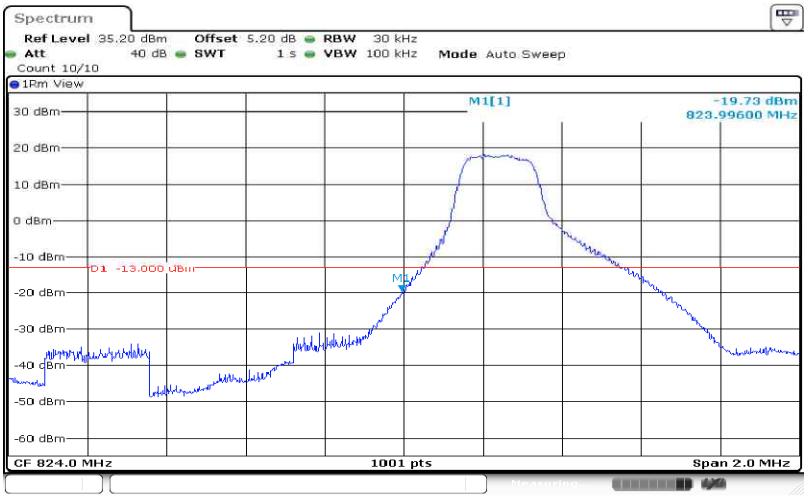
Band5-3MHz-QPSK-20415-1RB#0



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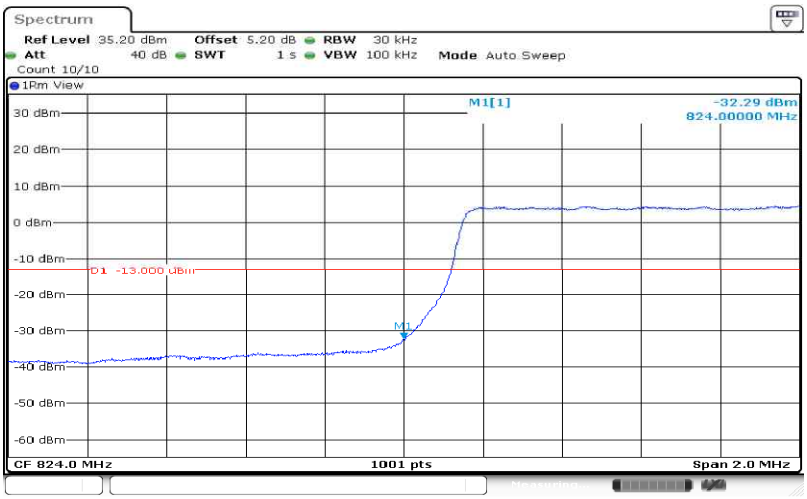
Band5-3MHz-QPSK-20415-15RB#0



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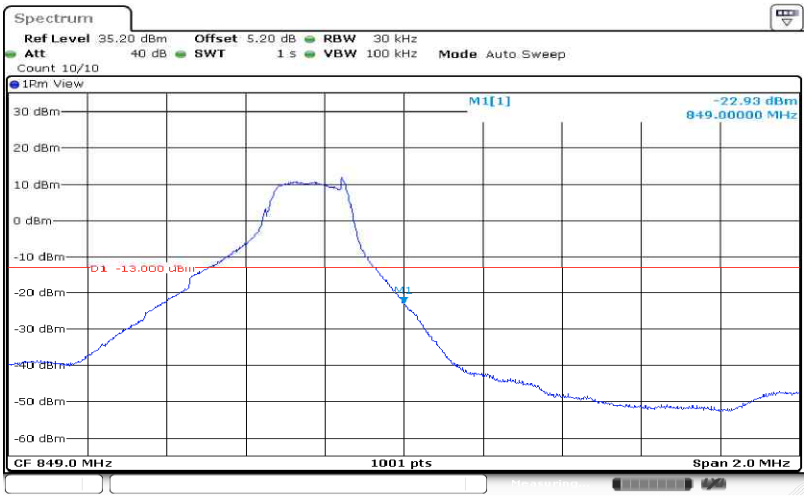

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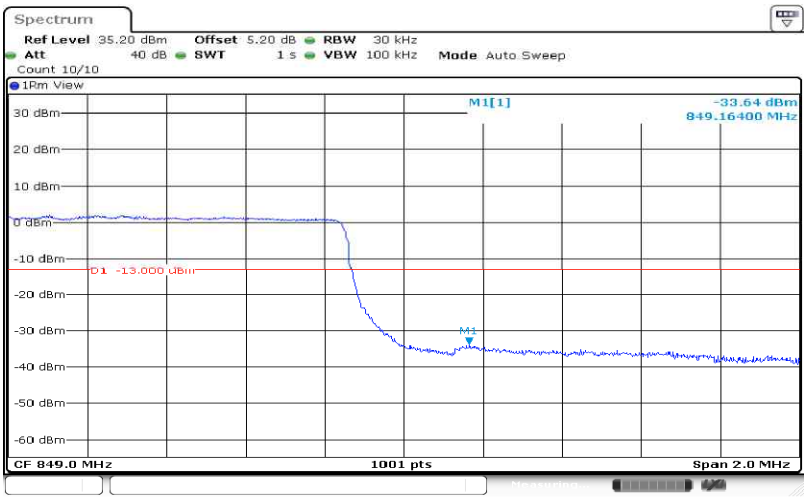
Band5-3MHz-QPSK-20635-15RB#0



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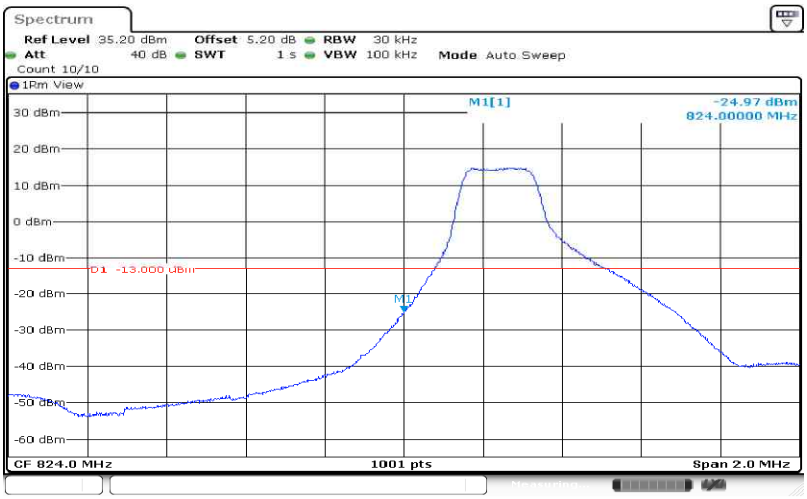
Band5-3MHz-64QAM-20415-1RB#0



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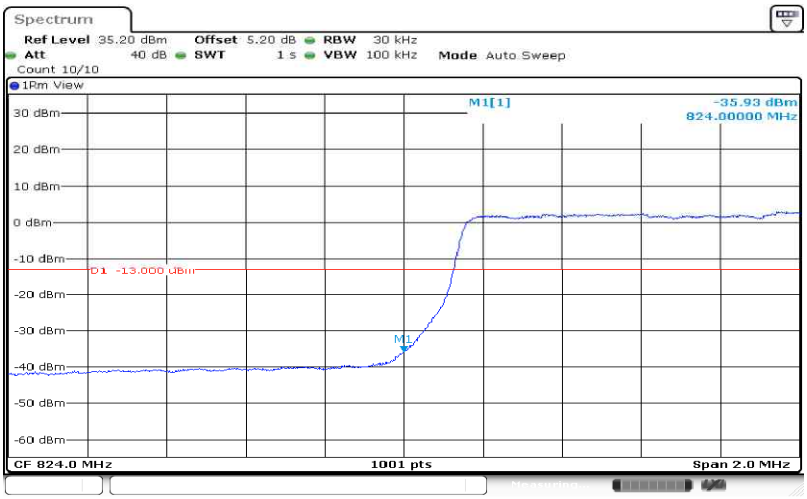
Band5-3MHz-64QAM-20415-15RB#0



Date: 13.JUN.2020 13:25:02

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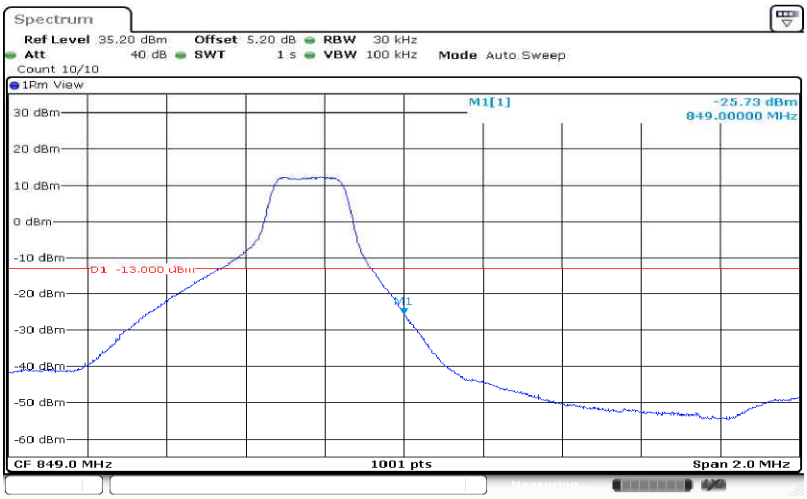

Band5-3MHz-64QAM-20635-15RB#0

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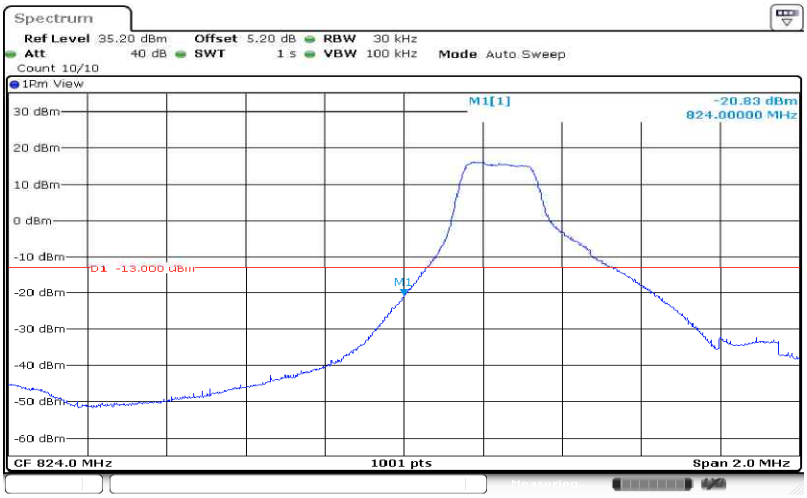
Band5-3MHz-16QAM-20415-1RB#0



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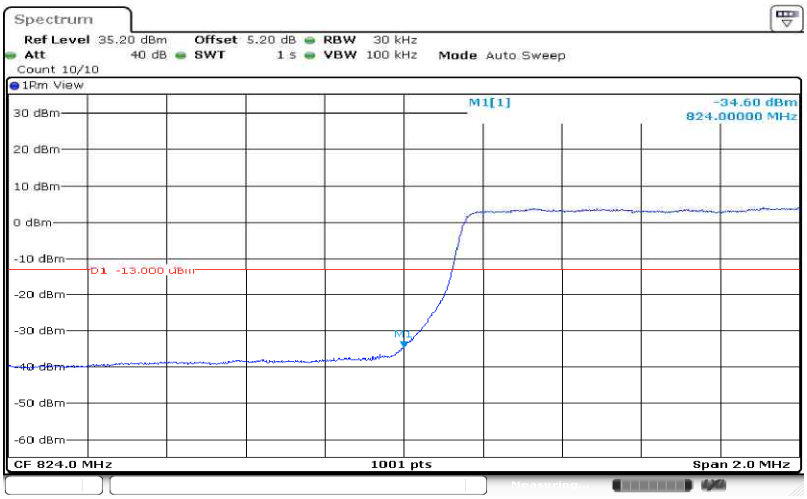
Band5-3MHz-16QAM-20415-15RB#0



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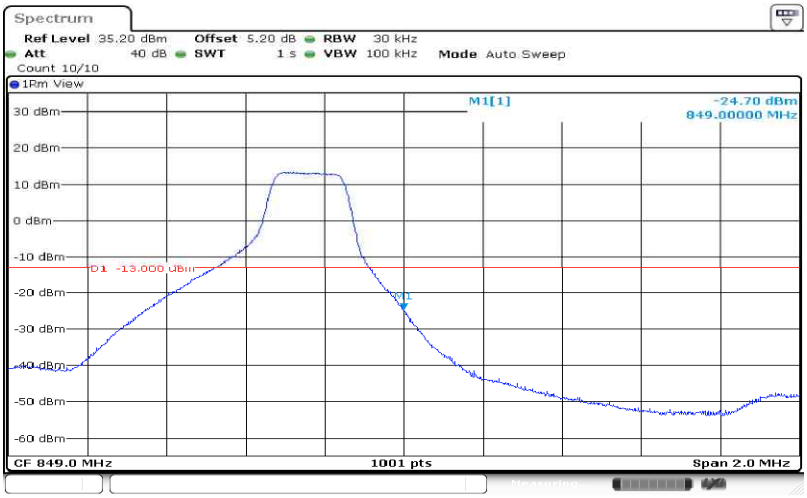

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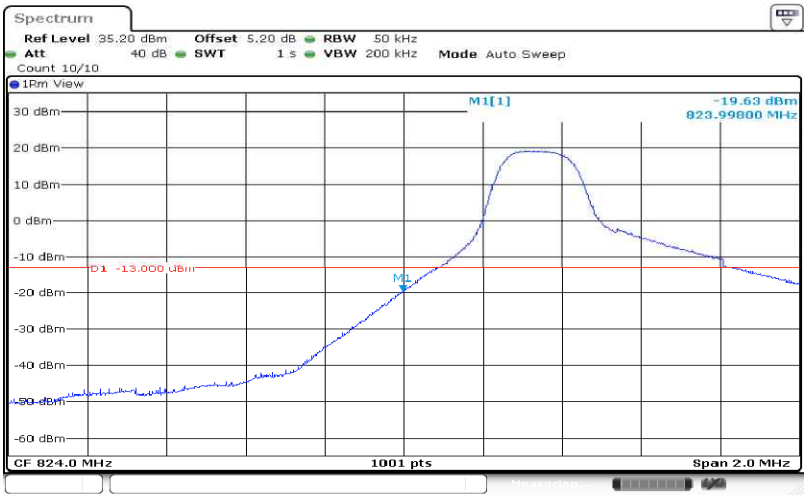

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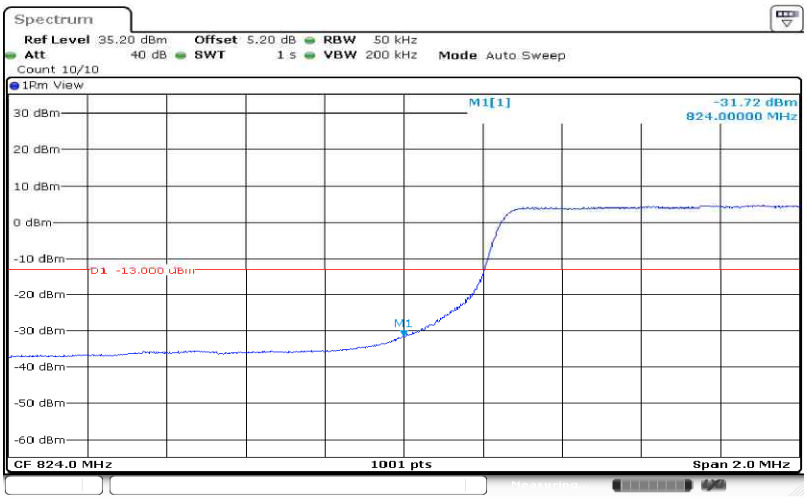
Band5-5MHz-QPSK-20425-25RB#0



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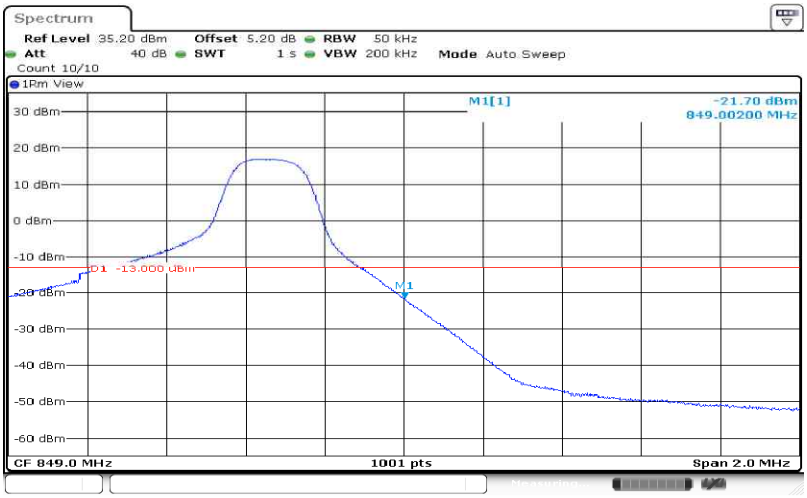

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Band5-5MHz-QPSK-20625-25RB#0

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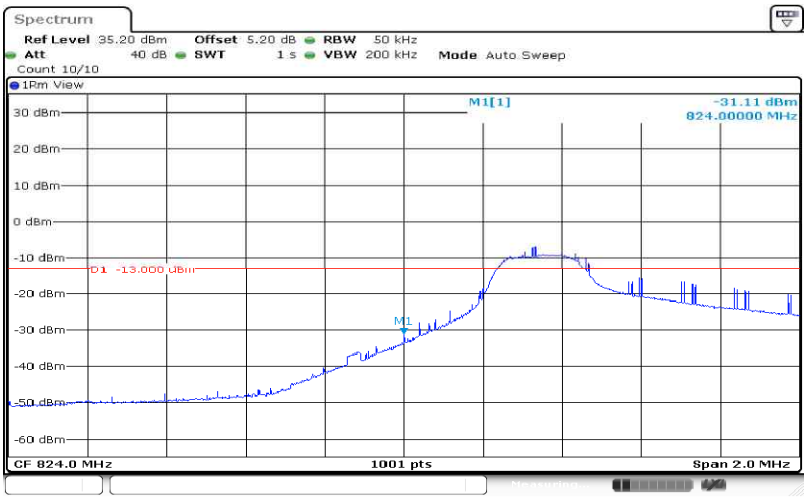

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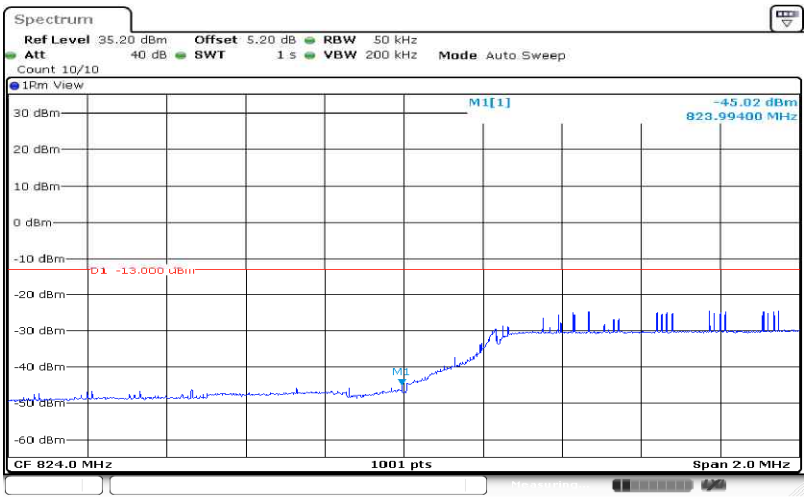

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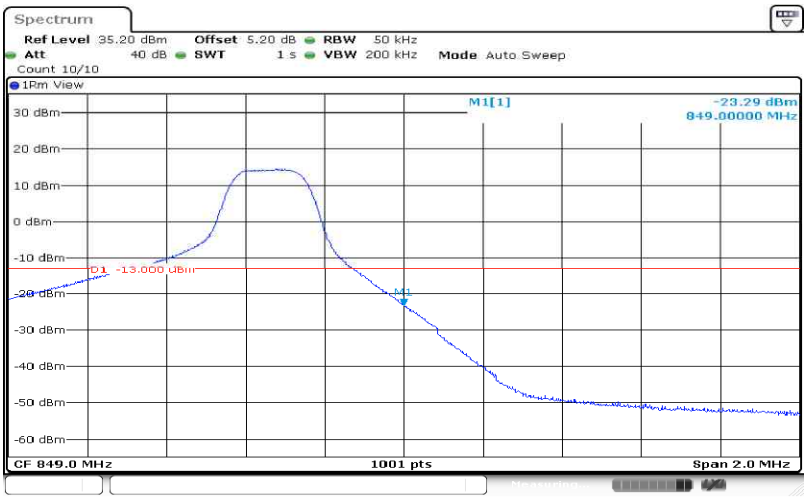

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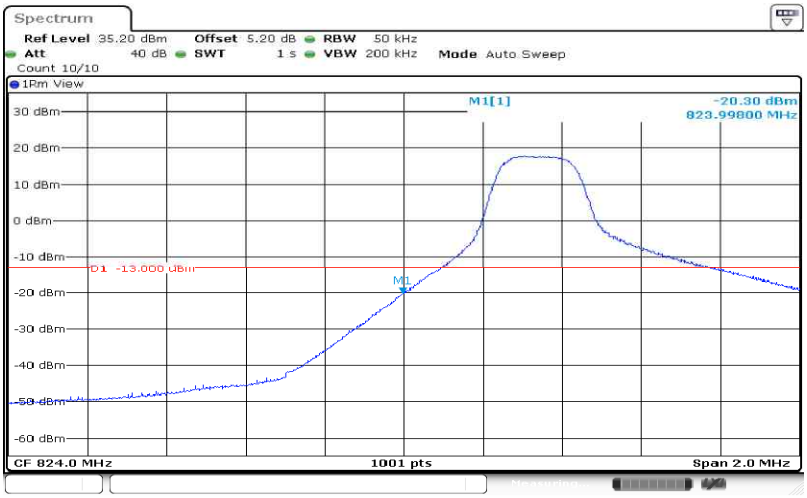

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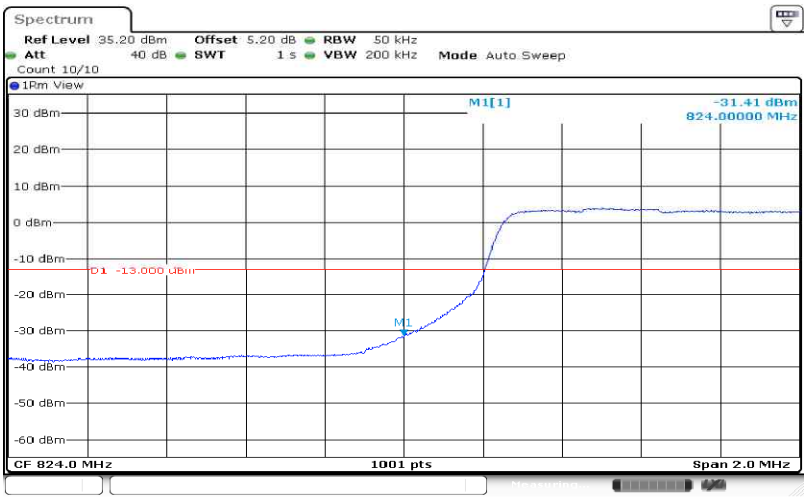

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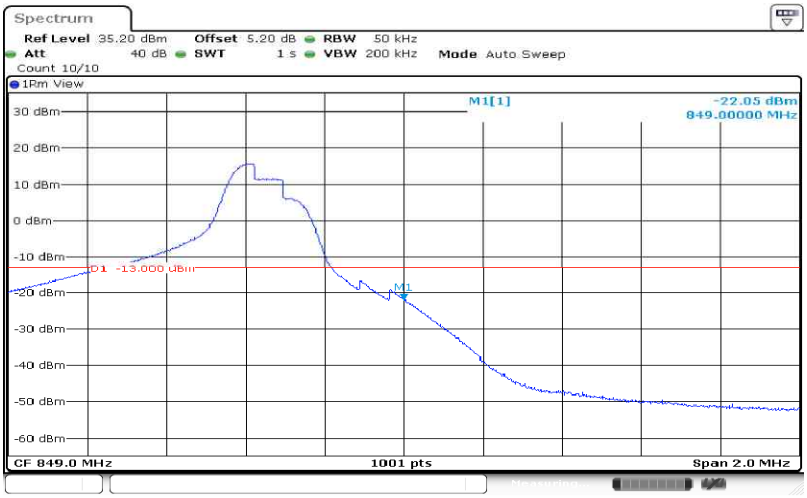

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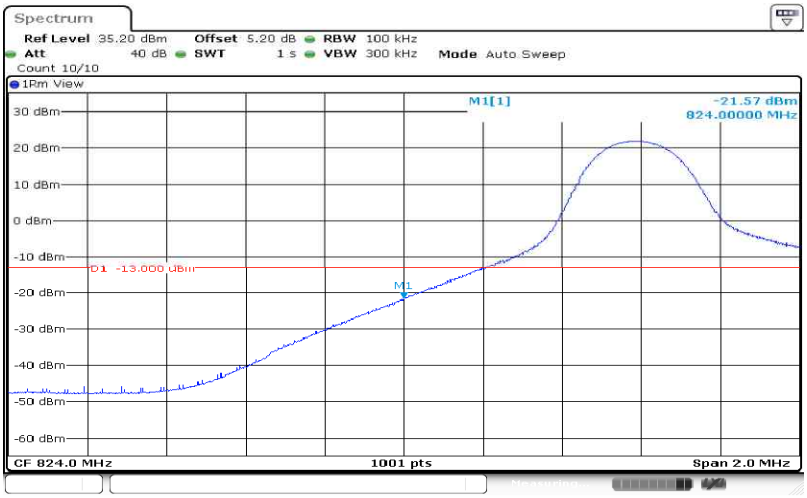
Band5-10MHz-QPSK-20450-1RB#0



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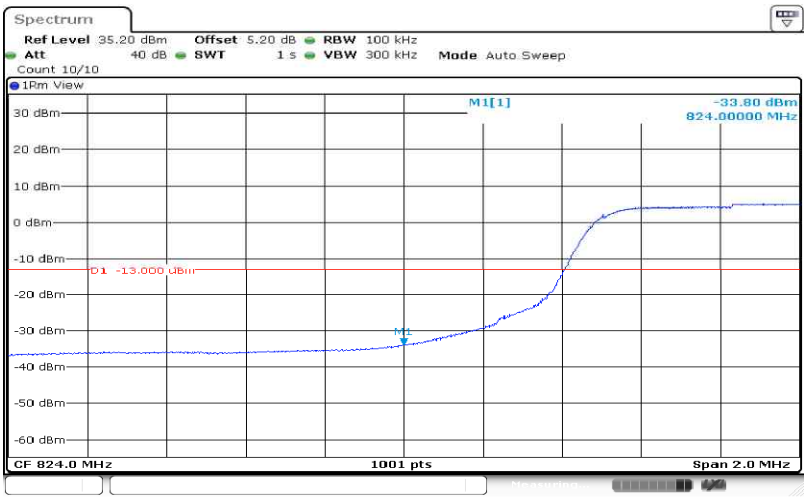
Band5-10MHz-QPSK-20450-50RB#0



Date: 13.JUN.2020 12:50:03

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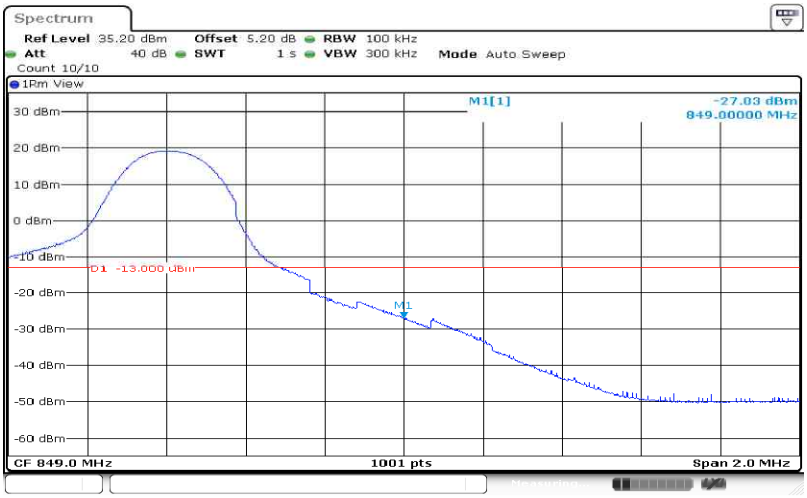
Band5-10MHz-QPSK-20600-1RB#49



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Band5-10MHz-QPSK-20600-50RB#0

Date: 13.JUN.2020 12:51:29

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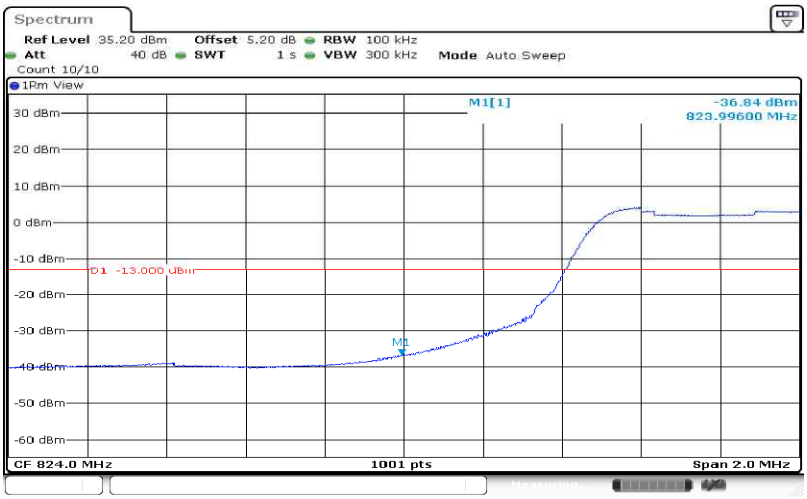
Band5-10MHz-64QAM-20450-1RB#0

Band5-10MHz-64QAM-20450-50RB#0


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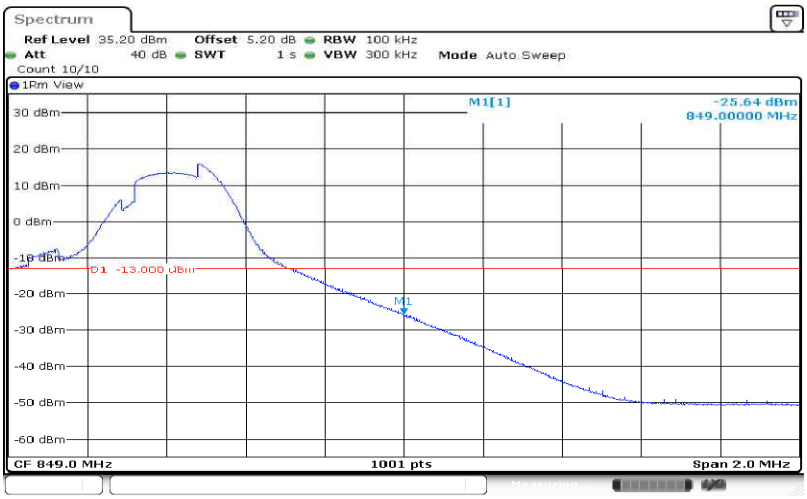
Band5-10MHz-64QAM-20600-1RB#49



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Band5-10MHz-64QAM-20600-50RB#0

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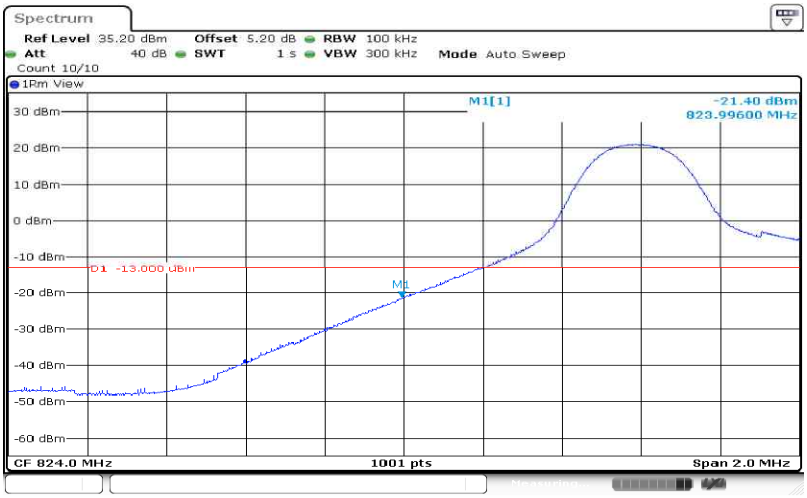
Band5-10MHz-16QAM-20450-1RB#0



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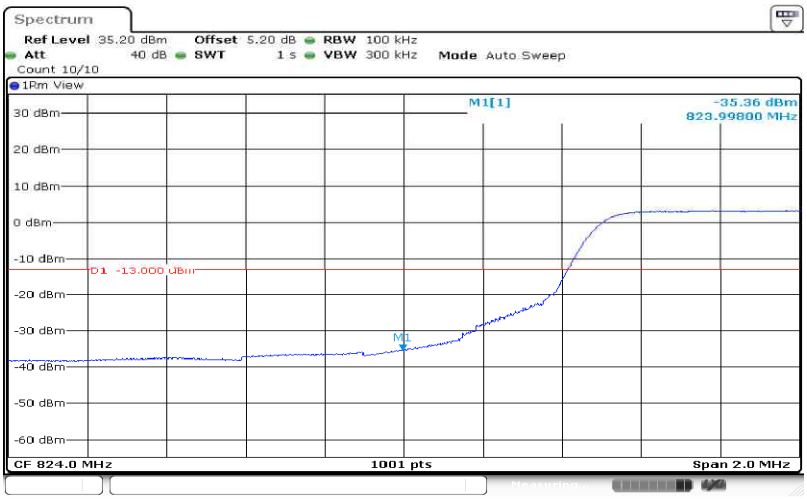
Band5-10MHz-16QAM-20450-50RB#0



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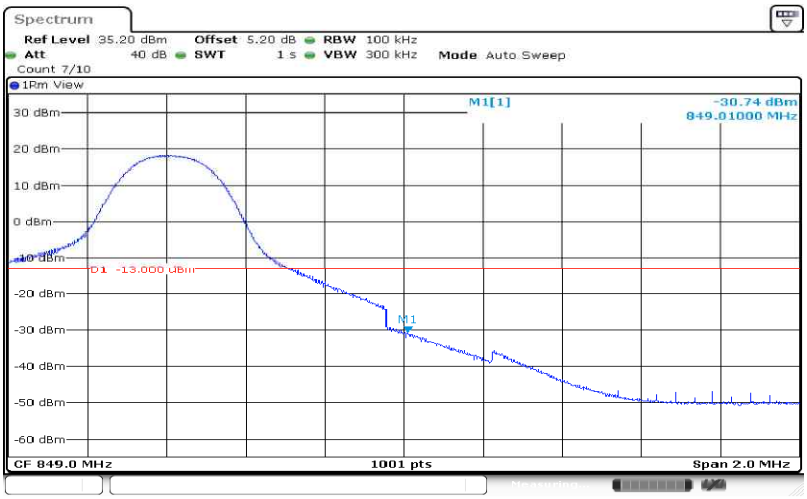
Band5-10MHz-16QAM-20600-1RB#49



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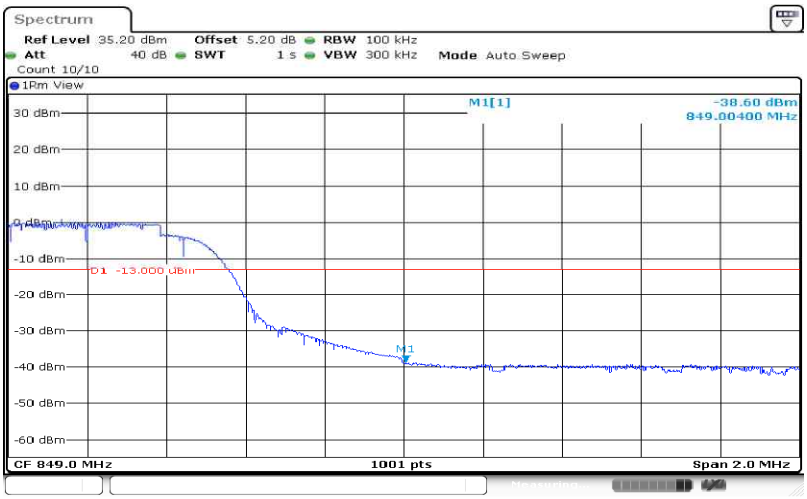
Band5-10MHz-16QAM-20600-50RB#0



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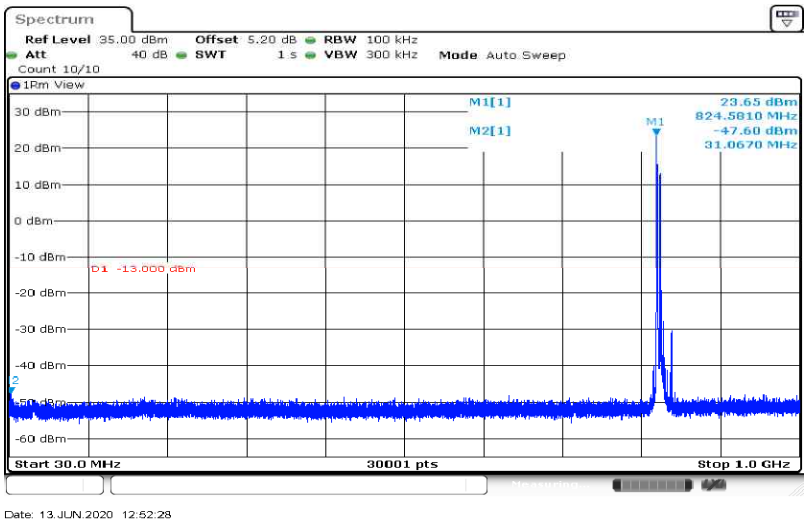
6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

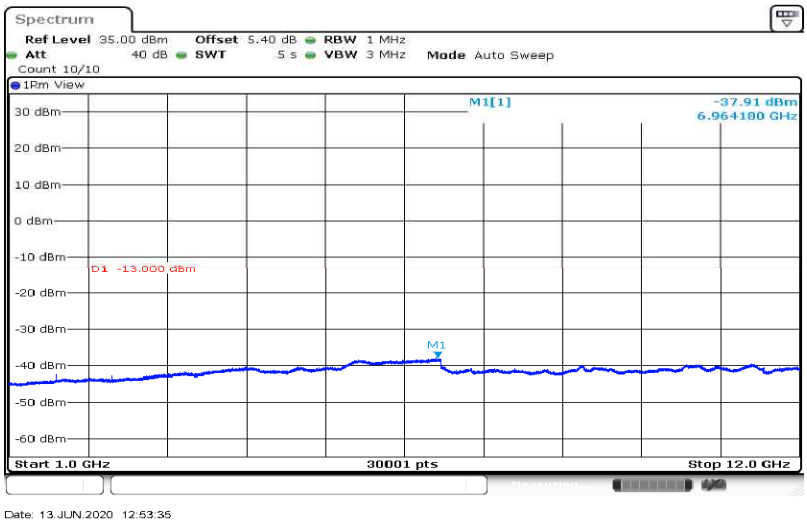
Remark2: only the worst case data displayed in this report.

6.1. Test Plots

Band5-10MHz-QPSK-20450-1RB#0-Range1:30~1000MHz



Band5-10MHz-QPSK-20450-1RB#0-Range2:1000~12000MHz



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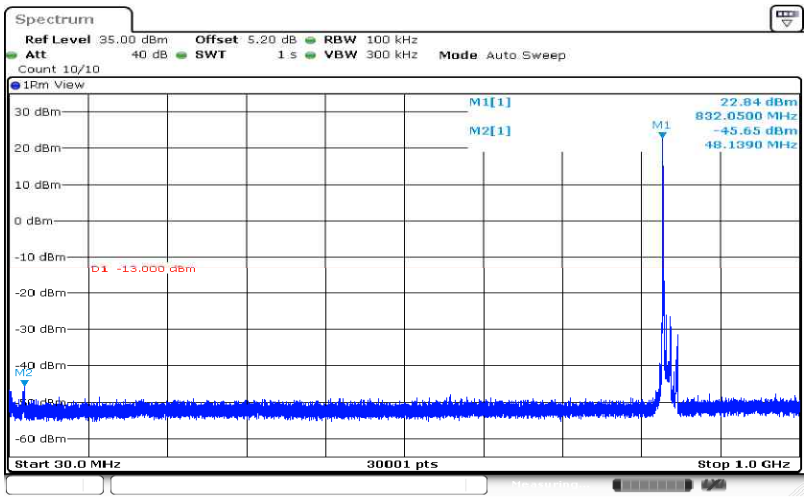
Band5-10MHz-QPSK-20525-1RB#0-Range1:30~1000MHz



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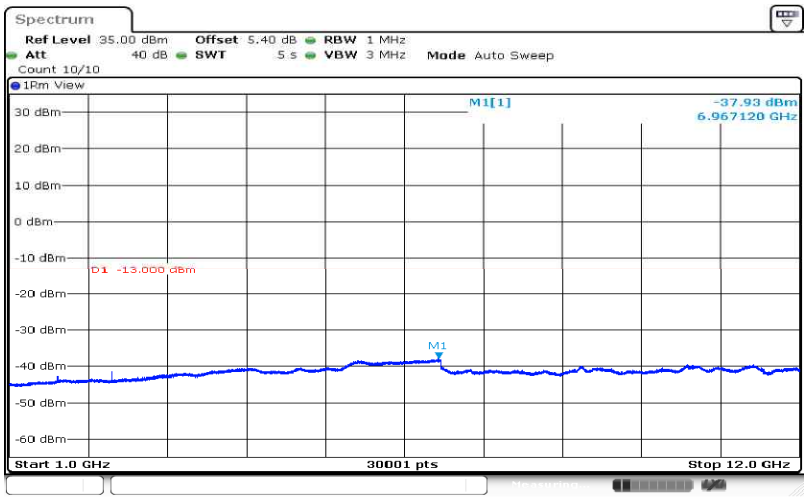

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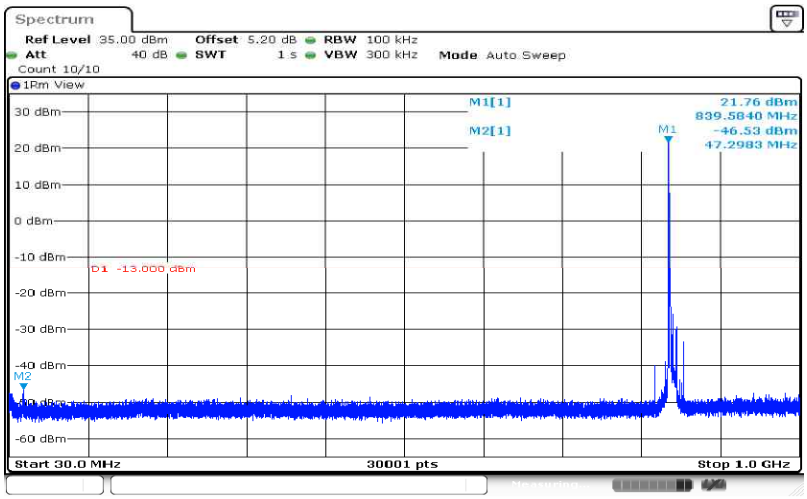
Band5-10MHz-QPSK-20600-1RB#0-Range1:30~1000MHz



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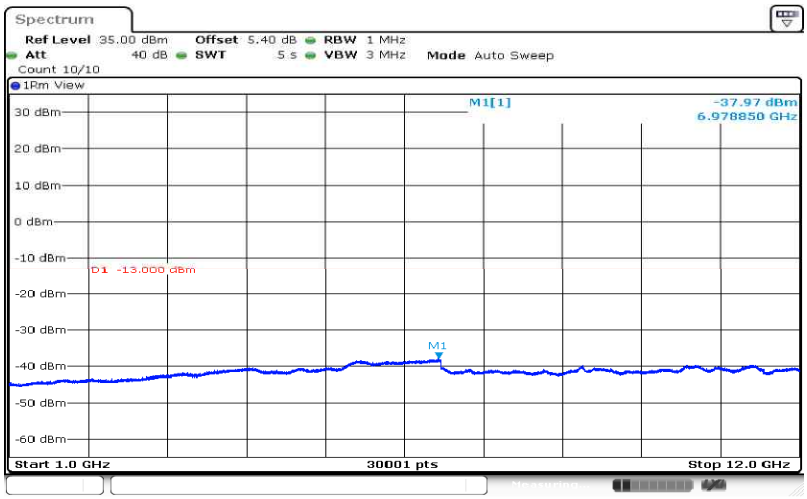

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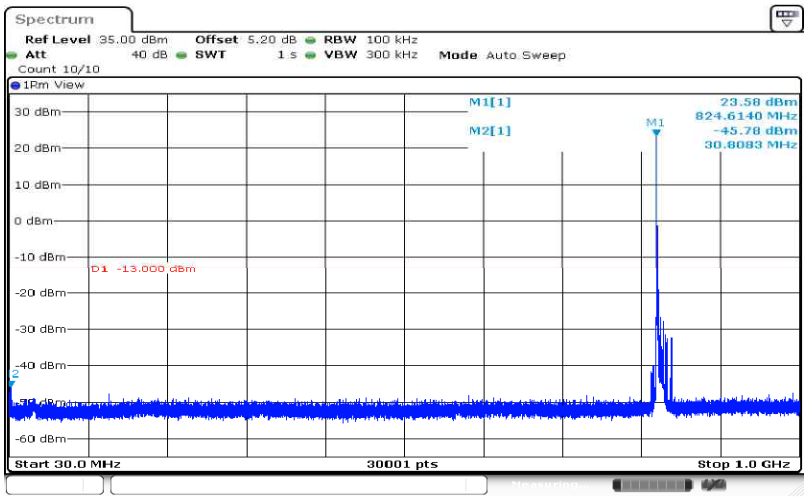
Band5-10MHz-64QAM-20450-1RB#0-Range1:30~1000MHz



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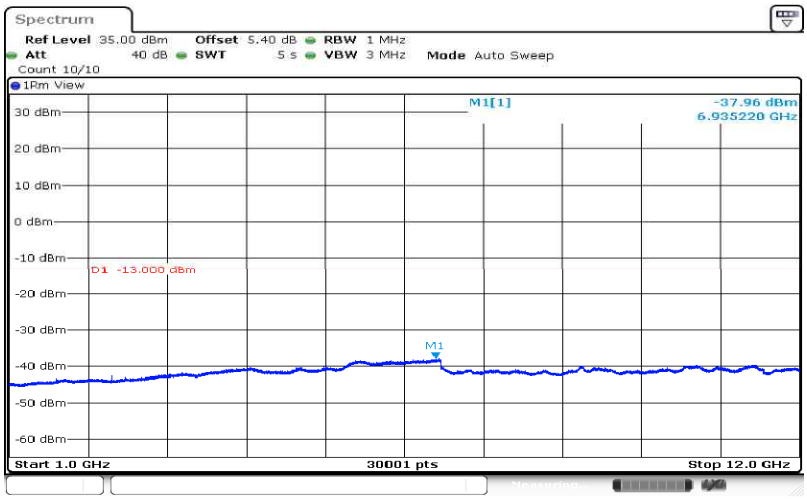
Band5-10MHz-64QAM-20450-1RB#0-Range2:1000~12000MHz



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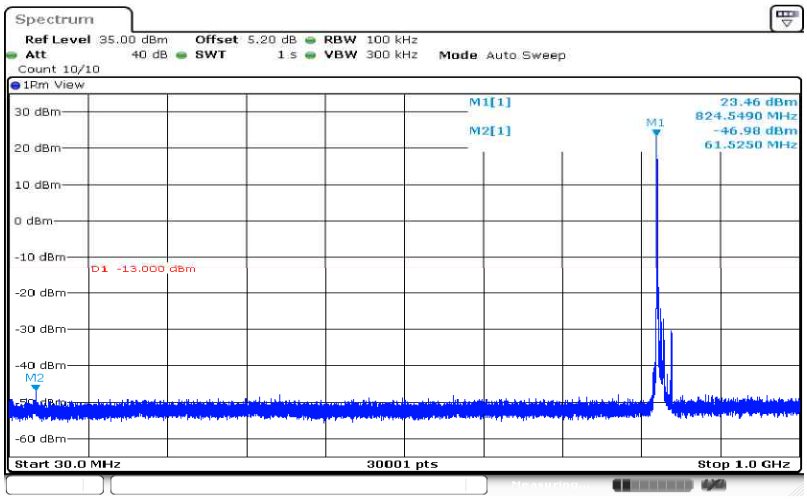
Band5-10MHz-16QAM-20450-1RB#0-Range1:30~1000MHz



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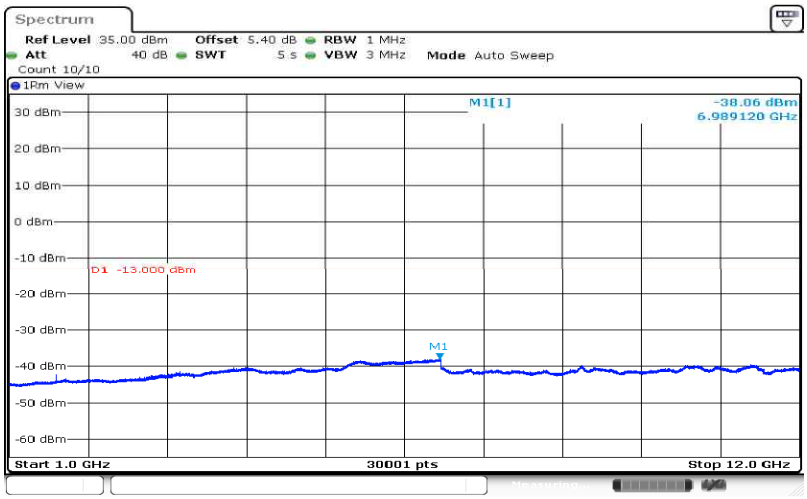

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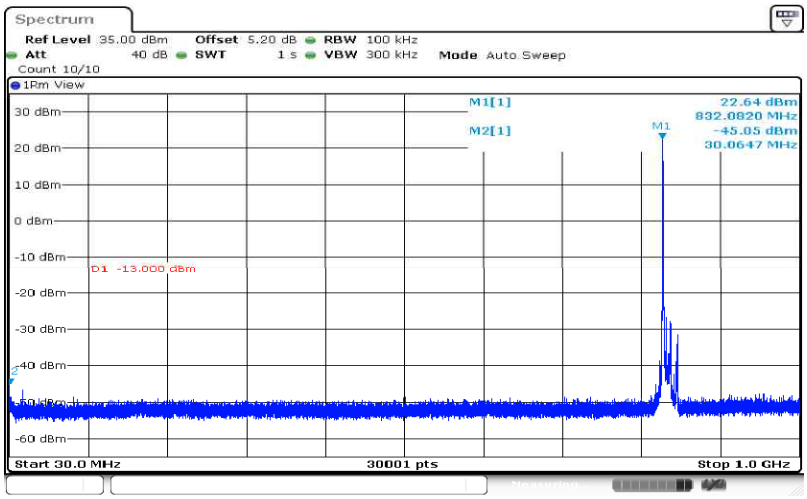
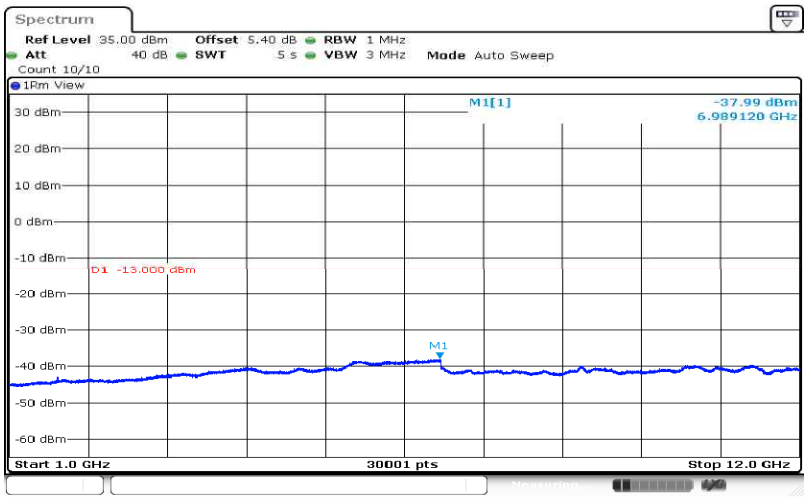
Band5-10MHz-16QAM-20525-1RB#0-Range1:30~1000MHz



Date: 13.JUN.2020 12:57:30

Band5-10MHz-16QAM-20525-1RB#0-Range2:1000~12000MHz



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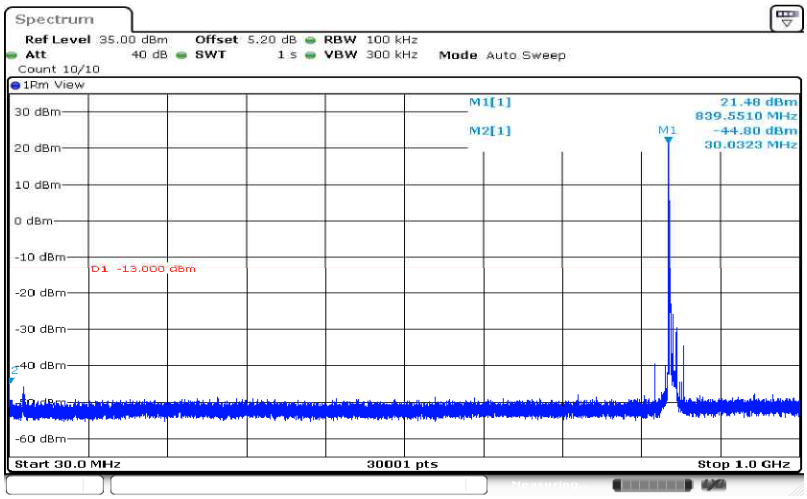
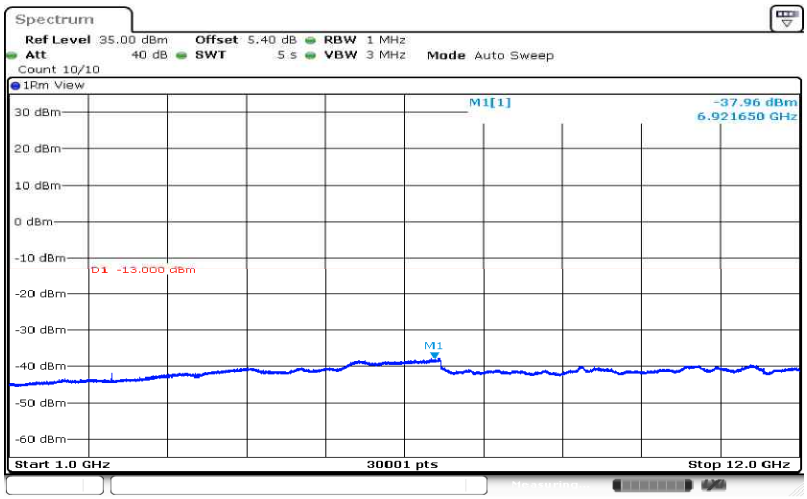
Band5-10MHz-16QAM-20600-1RB#0-Range1:30~1000MHz



Date: 13.JUN.2020 13:00:24

Band5-10MHz-16QAM-20600-1RB#0-Range2:1000~12000MHz



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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
45.5693	-72.47	-13.00	59.47	Vertical
112.2116	-62.60	-13.00	49.60	Vertical
555.7663	-63.20	-13.00	50.20	Vertical
1648.9298	-57.66	-13.00	44.66	Vertical
3000.0000	-56.13	-13.00	43.13	Vertical
8693.3898	-55.47	-13.00	42.47	Vertical
45.2298	-62.25	-13.00	49.25	Horizontal
231.0911	-65.27	-13.00	52.27	Horizontal
493.1982	-64.16	-13.00	51.16	Horizontal
1649.3299	-52.00	-13.00	39.00	Horizontal
2697.5395	-55.91	-13.00	42.91	Horizontal
8778.1926	-54.86	-13.00	41.86	Horizontal

7.1.2.Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
46.8303	-71.94	-13.00	58.94	Vertical
112.7451	-61.86	-13.00	48.86	Vertical
380.5270	-64.98	-13.00	51.98	Vertical
1664.1328	-60.56	-13.00	47.56	Vertical
3000.0000	-56.29	-13.00	43.29	Vertical
7944.7648	-55.79	-13.00	42.79	Vertical
46.6848	-62.89	-13.00	49.89	Horizontal
234.0012	-65.49	-13.00	52.49	Horizontal
498.3394	-62.53	-13.00	49.53	Horizontal
1664.1328	-57.61	-13.00	44.61	Horizontal
3000.0000	-56.52	-13.00	43.52	Horizontal
7475.3492	-56.45	-13.00	43.45	Horizontal

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7.1.3.Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.3339	-71.25	-13.00	58.25	Vertical
107.7979	-61.26	-13.00	48.26	Vertical
437.3234	-64.69	-13.00	51.69	Vertical
1678.9358	-61.99	-13.00	48.99	Vertical
3000.0000	-56.22	-13.00	43.22	Vertical
8840.1947	-54.54	-13.00	41.54	Vertical
37.6634	-60.73	-13.00	47.73	Horizontal
233.1767	-64.89	-13.00	51.89	Horizontal
495.1383	-63.18	-13.00	50.18	Horizontal
1679.3359	-55.46	-13.00	42.46	Horizontal
2697.1394	-56.30	-13.00	43.30	Horizontal
8794.1931	-55.03	-13.00	42.03	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
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	-7.50	-0.009047	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-8.20	-0.009891	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	-7.60	-0.009168	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-8.10	-0.009683	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-6.60	-0.007890	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-8.30	-0.009922	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	-7.30	-0.008649	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-3.60	-0.004265	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	-2.60	-0.003081	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	-10.80	-0.013028	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	-5.50	-0.006634	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	-10.80	-0.013028	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	-2.20	-0.002630	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	-6.50	-0.007770	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	-5.60	-0.006695	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	-5.70	-0.006754	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	-9.60	-0.011374	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	-2.00	-0.002370	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	-7.80	-0.009409	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-5.90	-0.007117	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-7.40	-0.008926	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	1.30	0.001568	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-3.20	-0.003860	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	-6.00	-0.007238	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	-10.00	-0.012063	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	-7.80	-0.009409	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-2.20	-0.002630	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-4.50	-0.005380	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-5.50	-0.006575	±2.5	PASS

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Band5	10MHz	QPSK	20525	50RB#0	NV	10	-9.20	-0.010998	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-6.30	-0.007531	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-7.90	-0.009444	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-10.10	-0.012074	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-9.90	-0.011835	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-4.30	-0.005095	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	-13.70	-0.016232	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-7.00	-0.008294	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-2.60	-0.003081	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-5.80	-0.006872	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	-9.10	-0.010782	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-9.00	-0.010664	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	-7.80	-0.009242	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	-12.00	-0.014475	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	-11.30	-0.013631	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	-10.10	-0.012183	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	-8.80	-0.010615	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	-5.00	-0.006031	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	30	-11.40	-0.013752	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	-10.20	-0.012304	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	-2.10	-0.002533	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	-3.70	-0.004423	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	-9.70	-0.011596	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	-4.30	-0.005140	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	-8.20	-0.009803	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	-4.10	-0.004901	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	-5.80	-0.006934	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	-0.90	-0.001076	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	-2.00	-0.002391	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	-4.20	-0.004976	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	-4.90	-0.005806	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	-6.60	-0.007820	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	-9.90	-0.011730	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	-12.00	-0.014218	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	-7.00	-0.008294	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	40	-6.80	-0.008057	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	-4.50	-0.005332	±2.5	PASS

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