Appendix B

E-UTRA BAND 13

CONTENT

1. Effective (Isotropic) Radiated Power

1.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
BAND 13	5MHz	QPSK	23205	1RB#0	23.17	24.02	34.77	PASS
BAND 13	5MHz	QPSK	23205	1RB#12	23.11	23.96	34.77	PASS
BAND 13	5MHz	QPSK	23205	1RB#24	23.22	24.07	34.77	PASS
BAND 13	5MHz	QPSK	23205	12RB#0	22.43	23.28	34.77	PASS
BAND 13	5MHz	QPSK	23205	12RB#6	22.38	23.23	34.77	PASS
BAND 13	5MHz	QPSK	23205	12RB#13	22.31	23.16	34.77	PASS
BAND 13	5MHz	QPSK	23205	25RB#0	22.35	23.20	34.77	PASS
BAND 13	5MHz	QPSK	23230	1RB#0	23.20	24.05	34.77	PASS
BAND 13	5MHz	QPSK	23230	1RB#12	23.24	24.09	34.77	PASS
BAND 13	5MHz	QPSK	23230	1RB#24	23.16	24.01	34.77	PASS
BAND 13	5MHz	QPSK	23230	12RB#0	22.38	23.23	34.77	PASS
BAND 13	5MHz	QPSK	23230	12RB#6	22.34	23.19	34.77	PASS
BAND 13	5MHz	QPSK	23230	12RB#13	22.34	23.19	34.77	PASS
BAND 13	5MHz	QPSK	23230	25RB#0	22.43	23.28	34.77	PASS
BAND 13	5MHz	QPSK	23255	1RB#0	23.36	24.21	34.77	PASS
BAND 13	5MHz	QPSK	23255	1RB#12	23.18	24.03	34.77	PASS
BAND 13	5MHz	QPSK	23255	1RB#24	23.06	23.91	34.77	PASS
BAND 13	5MHz	QPSK	23255	12RB#0	22.30	23.15	34.77	PASS
BAND 13	5MHz	QPSK	23255	12RB#6	22.41	23.26	34.77	PASS
BAND 13	5MHz	QPSK	23255	12RB#13	22.32	23.17	34.77	PASS
BAND 13	5MHz	QPSK	23255	25RB#0	22.38	23.23	34.77	PASS
BAND 13	5MHz	64QAM	23205	1RB#0	22.63	23.48	34.77	PASS
BAND 13	5MHz	64QAM	23205	1RB#12	22.37	23.22	34.77	PASS
BAND 13	5MHz	64QAM	23205	1RB#24	22.27	23.12	34.77	PASS
BAND 13	5MHz	64QAM	23205	12RB#0	21.46	22.31	34.77	PASS
BAND 13	5MHz	64QAM	23205	12RB#6	21.41	22.26	34.77	PASS
BAND 13	5MHz	64QAM	23205	12RB#13	21.33	22.18	34.77	PASS
BAND 13	5MHz	64QAM	23205	25RB#0	21.38	22.23	34.77	PASS
BAND 13	5MHz	64QAM	23230	1RB#0	22.36	23.21	34.77	PASS
BAND 13	5MHz	64QAM	23230	1RB#12	22.34	23.19	34.77	PASS
BAND 13	5MHz	64QAM	23230	1RB#24	22.30	23.15	34.77	PASS
BAND 13	5MHz	64QAM	23230	12RB#0	21.41	22.26	34.77	PASS
BAND 13	5MHz	64QAM	23230	12RB#6	21.34	22.19	34.77	PASS
BAND 13	5MHz	64QAM	23230	12RB#13	21.37	22.22	34.77	PASS

BAND 13	5MHz	64QAM	23230	25RB#0	21.41	22.26	34.77	PASS
BAND 13	5MHz	64QAM	23255	1RB#0	22.36	23.21	34.77	PASS
BAND 13	5MHz	64QAM	23255	1RB#12	22.36	23.21	34.77	PASS
BAND 13	5MHz	64QAM	23255	1RB#24	22.37	23.22	34.77	PASS
BAND 13	5MHz	64QAM	23255	12RB#0	21.28	22.13	34.77	PASS
BAND 13	5MHz	64QAM	23255	12RB#6	21.40	22.25	34.77	PASS
BAND 13	5MHz	64QAM	23255	12RB#13	21.31	22.16	34.77	PASS
BAND 13	5MHz	64QAM	23255	25RB#0	21.33	22.18	34.77	PASS
BAND 13	5MHz	16QAM	23205	1RB#0	22.74	23.59	34.77	PASS
BAND 13	5MHz	16QAM	23205	1RB#12	22.49	23.34	34.77	PASS
BAND 13	5MHz	16QAM	23205	1RB#24	22.51	23.36	34.77	PASS
BAND 13	5MHz	16QAM	23205	12RB#0	21.48	22.33	34.77	PASS
BAND 13	5MHz	16QAM	23205	12RB#6	21.44	22.29	34.77	PASS
BAND 13	5MHz	16QAM	23205	12RB#13	21.39	22.24	34.77	PASS
BAND 13	5MHz	16QAM	23205	25RB#0	21.42	22.27	34.77	PASS
BAND 13	5MHz	16QAM	23230	1RB#0	22.47	23.32	34.77	PASS
BAND 13	5MHz	16QAM	23230	1RB#12	22.47	23.32	34.77	PASS
BAND 13	5MHz	16QAM	23230	1RB#24	22.42	23.27	34.77	PASS
BAND 13	5MHz	16QAM	23230	12RB#0	21.45	22.30	34.77	PASS
BAND 13	5MHz	16QAM	23230	12RB#6	21.38	22.23	34.77	PASS
BAND 13	5MHz	16QAM	23230	12RB#13	21.43	22.28	34.77	PASS
BAND 13	5MHz	16QAM	23230	25RB#0	21.41	22.26	34.77	PASS
BAND 13	5MHz	16QAM	23255	1RB#0	22.48	23.33	34.77	PASS
BAND 13	5MHz	16QAM	23255	1RB#12	22.45	23.30	34.77	PASS
BAND 13	5MHz	16QAM	23255	1RB#24	22.39	23.24	34.77	PASS
BAND 13	5MHz	16QAM	23255	12RB#0	21.41	22.26	34.77	PASS
BAND 13	5MHz	16QAM	23255	12RB#6	21.48	22.33	34.77	PASS
BAND 13	5MHz	16QAM	23255	12RB#13	21.36	22.21	34.77	PASS
BAND 13	5MHz	16QAM	23255	25RB#0	21.32	22.17	34.77	PASS
BAND 13	10MHz	QPSK	23230	1RB#0	23.22	24.07	34.77	PASS
BAND 13	10MHz	QPSK	23230	1RB#24	23.32	24.17	34.77	PASS
BAND 13	10MHz	QPSK	23230	1RB#49	23.14	23.99	34.77	PASS
BAND 13	10MHz	QPSK	23230	25RB#0	22.46	23.31	34.77	PASS
BAND 13	10MHz	QPSK	23230	25RB#12	22.47	23.32	34.77	PASS
BAND 13	10MHz	QPSK	23230	25RB#25	22.40	23.25	34.77	PASS
BAND 13	10MHz	QPSK	23230	50RB#0	22.46	23.31	34.77	PASS
BAND 13	10MHz	64QAM	23230	1RB#0	22.39	23.24	34.77	PASS
BAND 13	10MHz	64QAM	23230	1RB#24	22.41	23.26	34.77	PASS
BAND 13	10MHz	64QAM	23230	1RB#49	22.20	23.05	34.77	PASS
BAND 13	10MHz	64QAM	23230	25RB#0	21.46	22.31	34.77	PASS
BAND 13	10MHz	64QAM	23230	25RB#12	21.39	22.24	34.77	PASS

BAND 13	10MHz	64QAM	23230	25RB#25	21.34	22.19	34.77	PASS
BAND 13	10MHz	64QAM	23230	50RB#0	21.47	22.32	34.77	PASS
BAND 13	10MHz	16QAM	23230	1RB#0	22.53	23.38	34.77	PASS
BAND 13	10MHz	16QAM	23230	1RB#24	22.50	23.35	34.77	PASS
BAND 13	10MHz	16QAM	23230	1RB#49	22.50	23.35	34.77	PASS
BAND 13	10MHz	16QAM	23230	25RB#0	21.44	22.29	34.77	PASS
BAND 13	10MHz	16QAM	23230	25RB#12	21.46	22.31	34.77	PASS
BAND 13	10MHz	16QAM	23230	25RB#25	21.35	22.20	34.77	PASS
BAND 13	10MHz	16QAM	23230	50RB#0	21.50	22.35	34.77	PASS

Note:

a: For getting the EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]

EIRP [dBm] = SGP [dBm] – Cable Loss [dB] + Gain [dBi]

b: SGP=Signal Generator Level

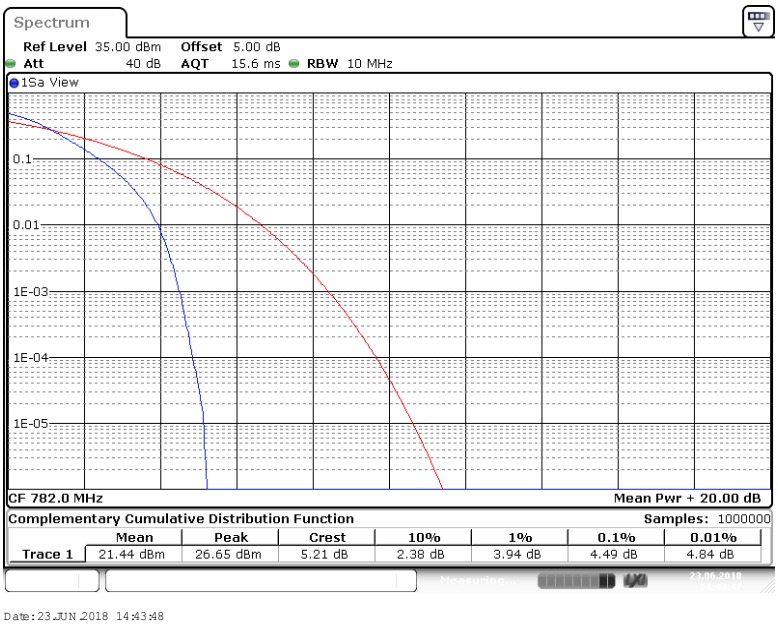
2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

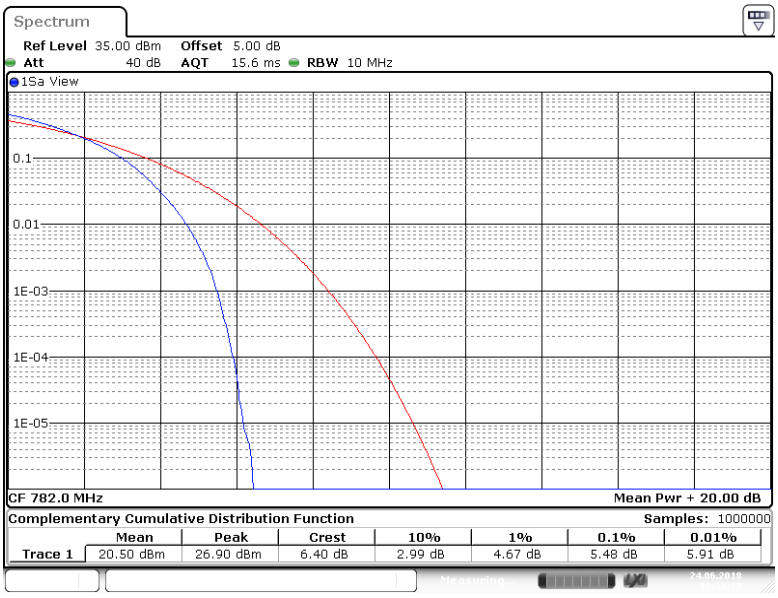
BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
BAND 13	10MHz	QPSK	23230	50RB#0	4.49	13	PASS
BAND 13	10MHz	64QAM	23230	50RB#0	5.48	13	PASS
BAND 13	10MHz	16QAM	23230	50RB#0	5.48	13	PASS

2.2. Test Plots

BAND 13_10MHz_QPSK_23230_50RB#0

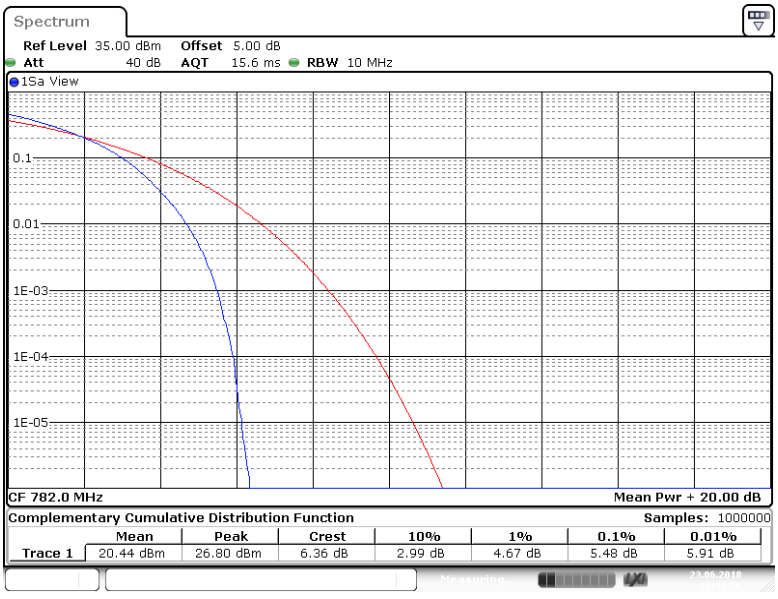


BAND 13_10MHz_64QAM_23230_50RB#0



Date: 24.JUN.2018 10:34:37

BAND 13_10MHz_16QAM_23230_50RB#0



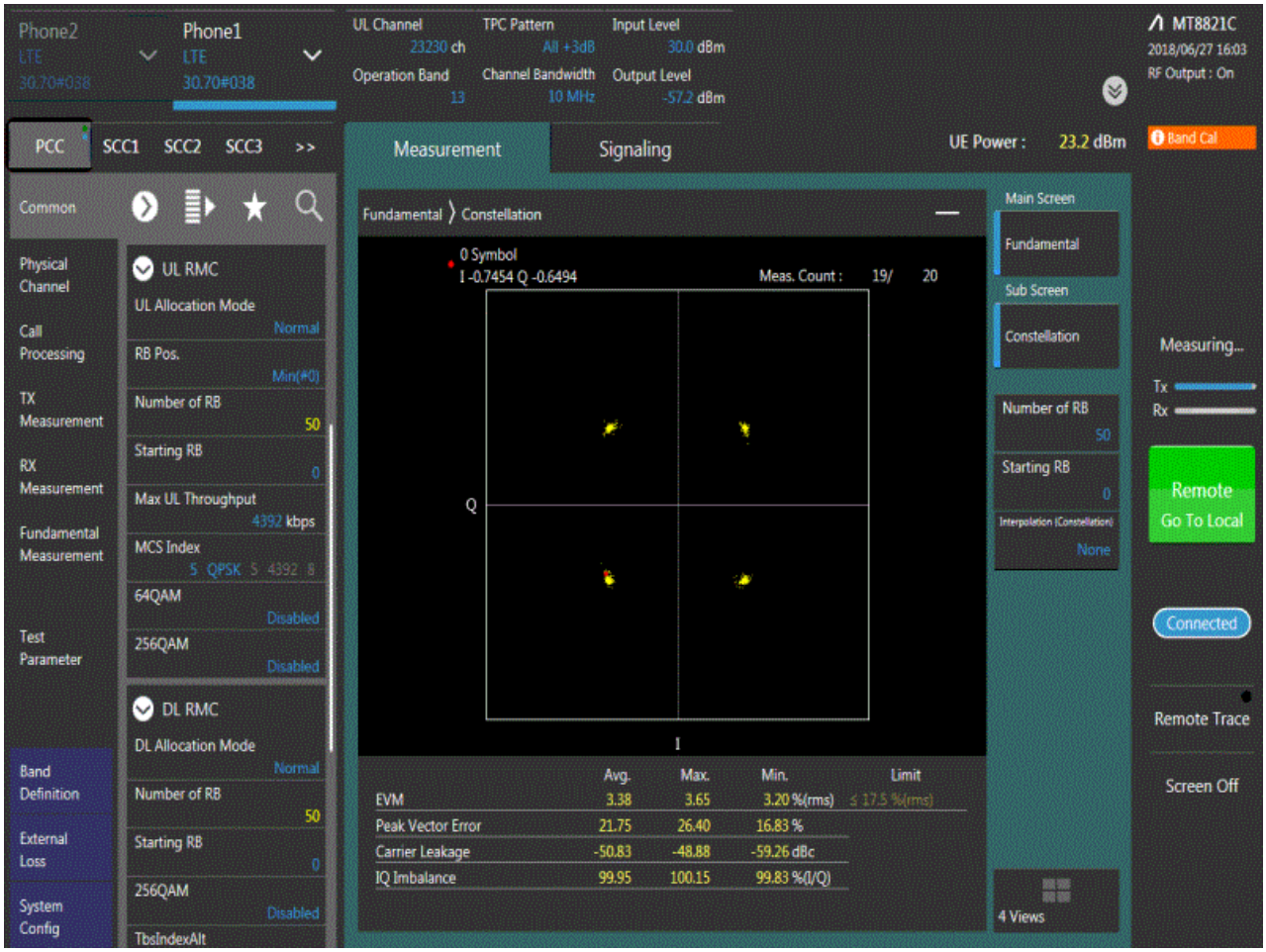
Date: 23.JUN.2018 14:43:57

3. Modulation Characteristics

3.1. Test BAND = LTE BAND 13

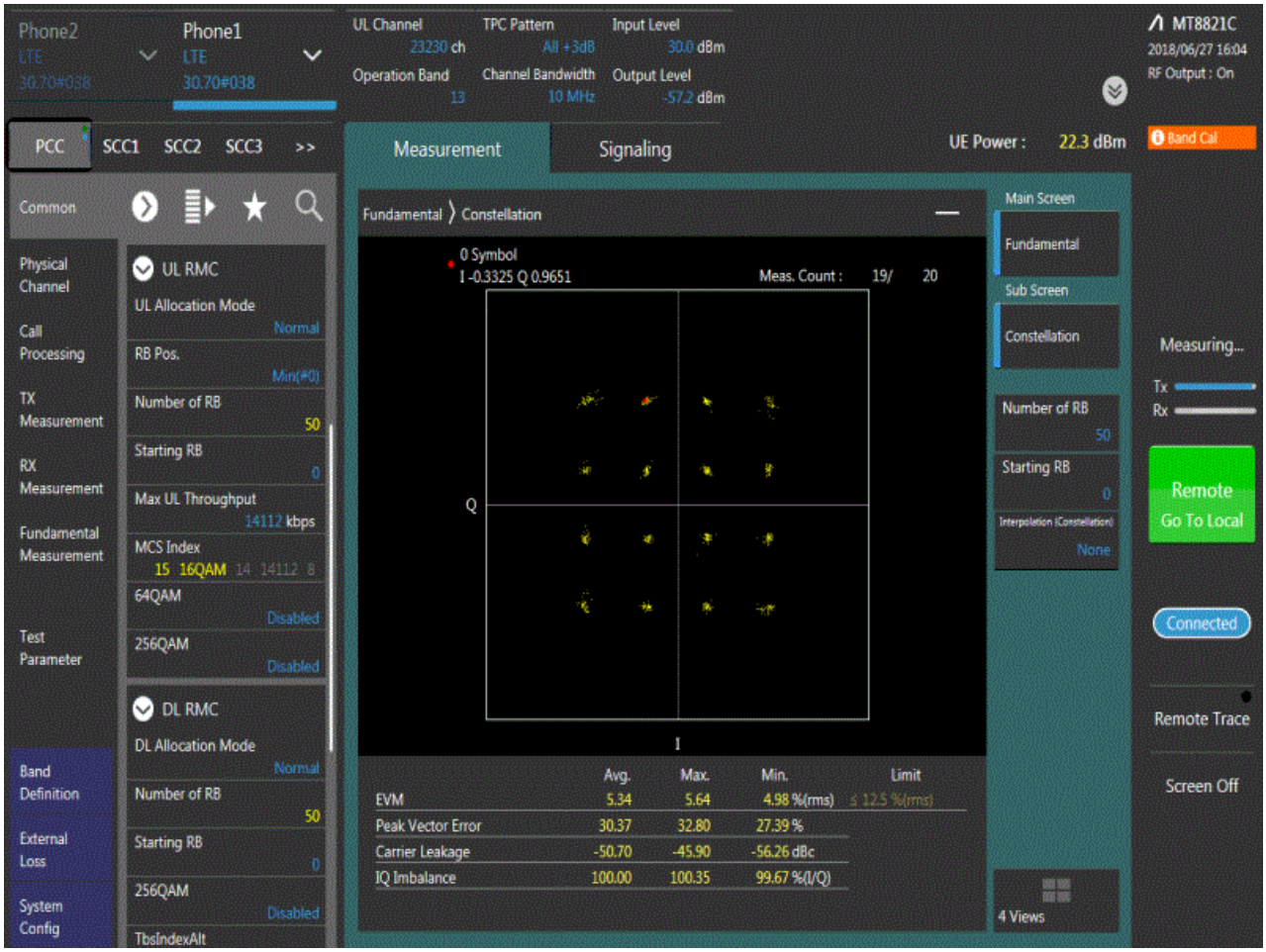
3.1.1. Test Mode = LTE /TM1 10MHz

3.1.1.1. Test Channel = MCH



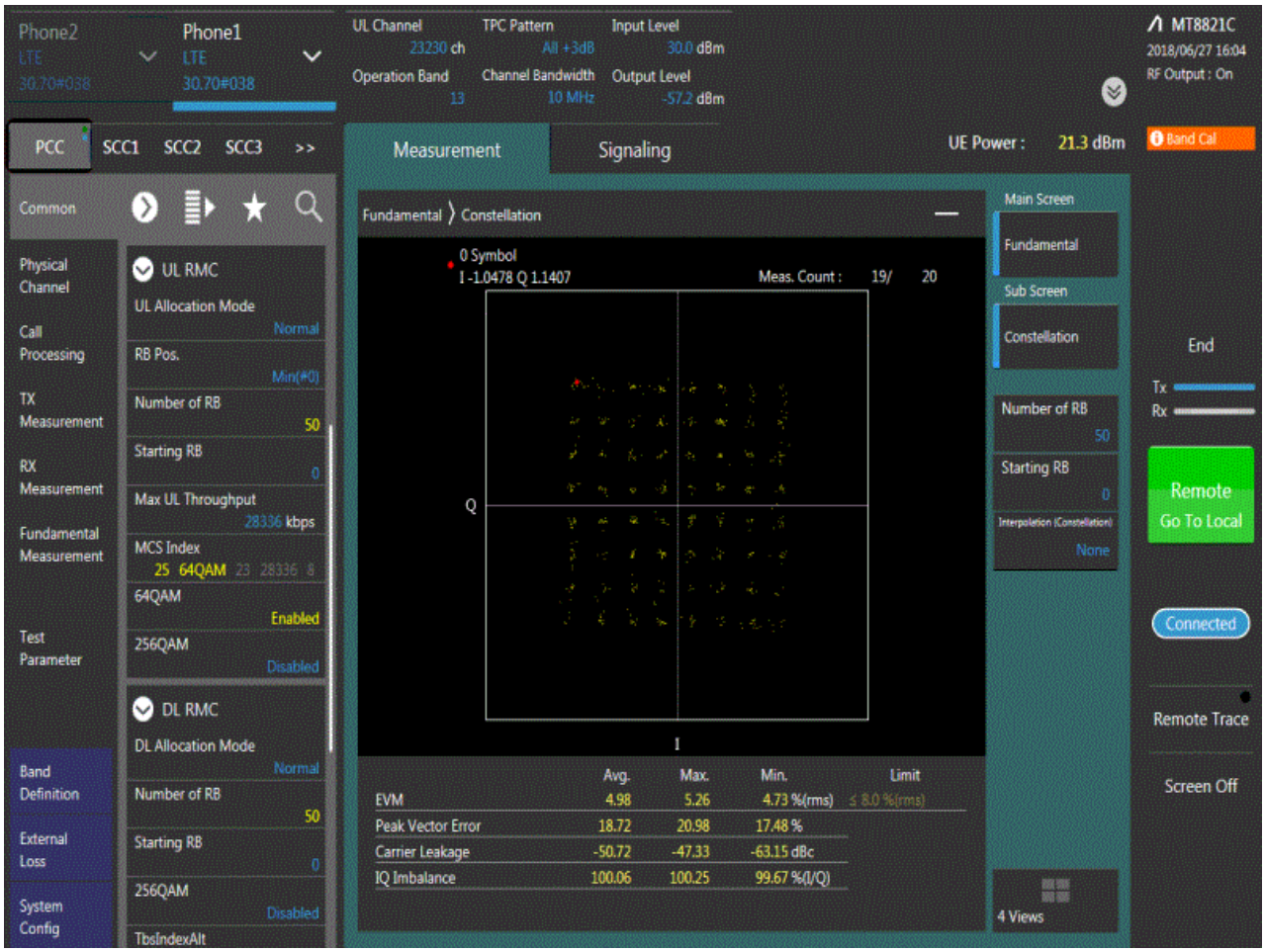
3.1.2. Test Mode = LTE /TM2 10MHz

3.1.2.1. Test Channel = MCH



3.1.3. Test Mode = LTE /TM3 10MHz

3.1.3.1. Test Channel = MCH



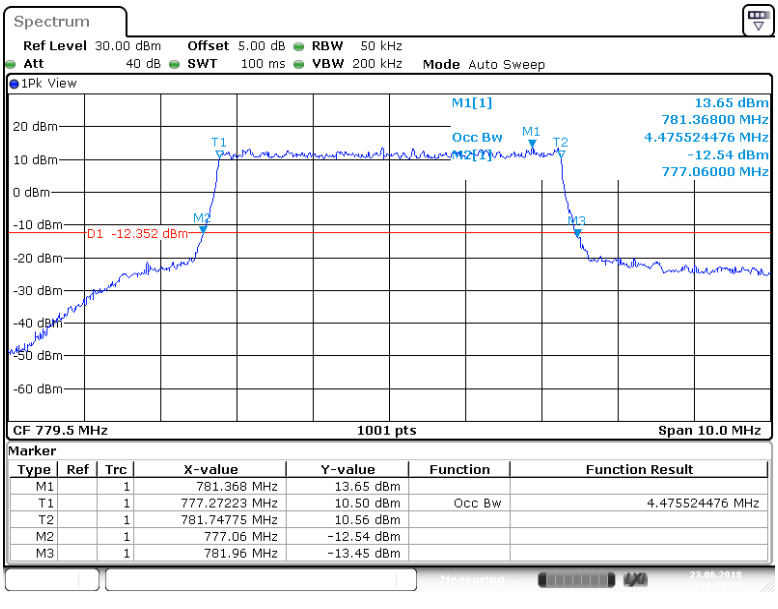
4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
BAND 13	5MHz	QPSK	23205	25RB#0	4.476	4.900	PASS
BAND 13	5MHz	QPSK	23230	25RB#0	4.476	4.870	PASS
BAND 13	5MHz	QPSK	23255	25RB#0	4.466	4.860	PASS
BAND 13	5MHz	64QAM	23205	25RB#0	4.476	4.940	PASS
BAND 13	5MHz	64QAM	23230	25RB#0	4.466	4.900	PASS
BAND 13	5MHz	64QAM	23255	25RB#0	4.466	4.950	PASS
BAND 13	5MHz	16QAM	23205	25RB#0	4.486	4.950	PASS
BAND 13	5MHz	16QAM	23230	25RB#0	4.486	4.920	PASS
BAND 13	5MHz	16QAM	23255	25RB#0	4.476	4.910	PASS
BAND 13	10MHz	QPSK	23230	50RB#0	8.931	9.660	PASS
BAND 13	10MHz	64QAM	23230	50RB#0	8.931	9.700	PASS
BAND 13	10MHz	16QAM	23230	50RB#0	8.931	9.660	PASS

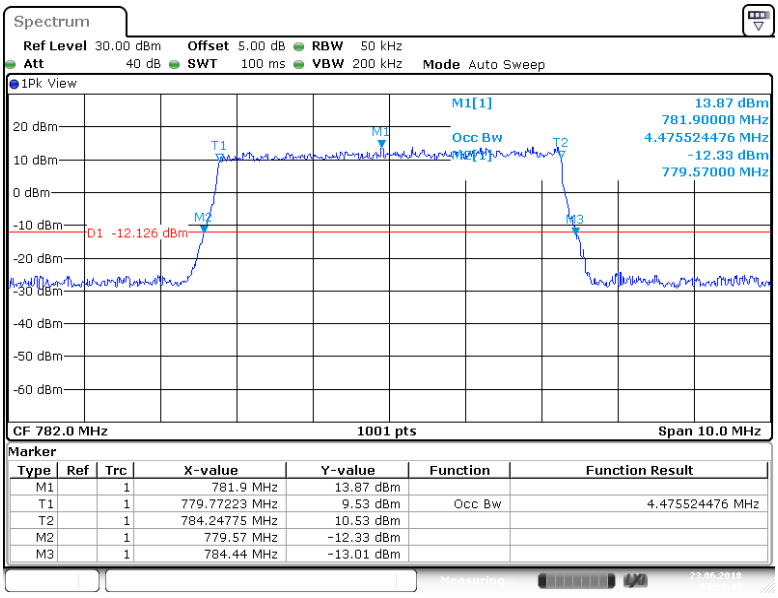
4.2. Test Plots

BAND 13_5MHz_QPSK_23205_25RB#0

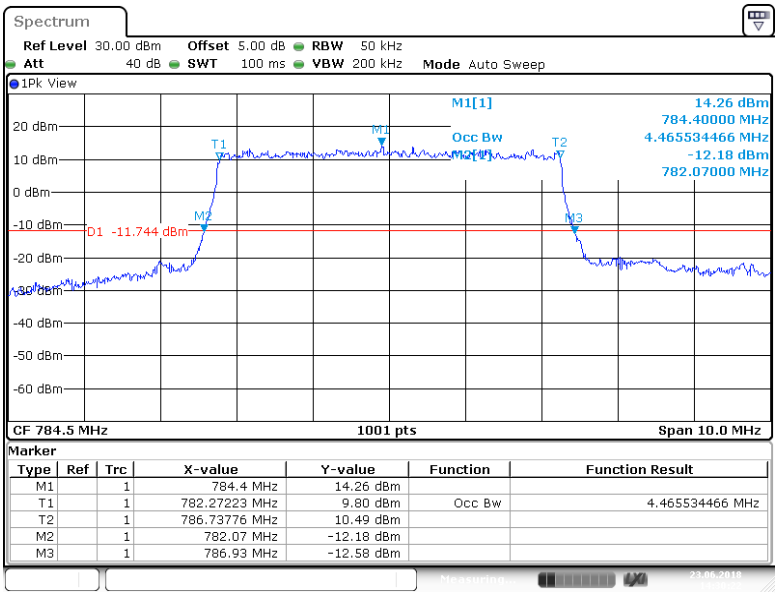


Date: 23.JUN.2018 14:29:03

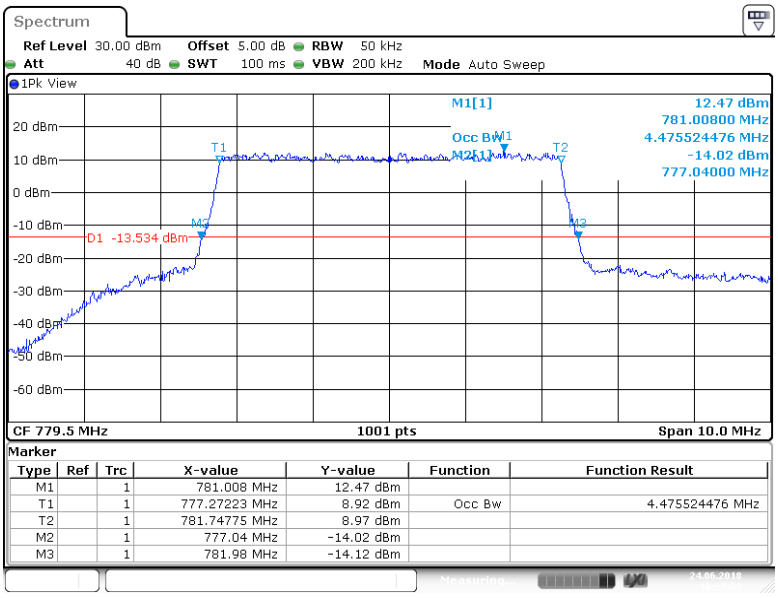
BAND 13_5MHz_QPSK_23230_25RB#0



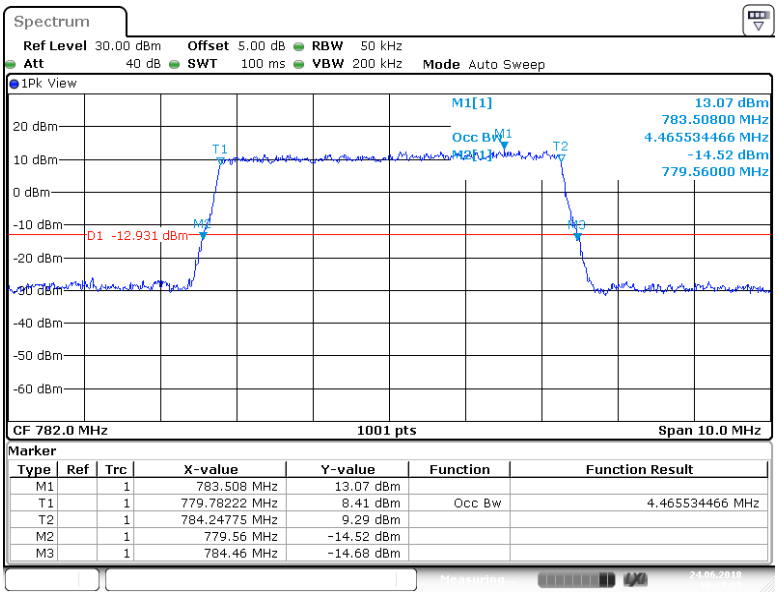
BAND 13_5MHz_QPSK_23255_25RB#0



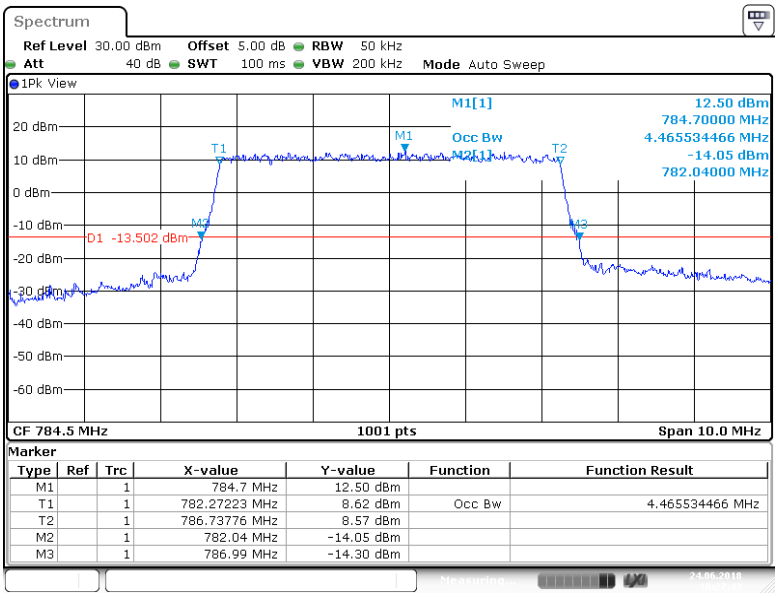
BAND 13_5MHz_64QAM_23205_25RB#0



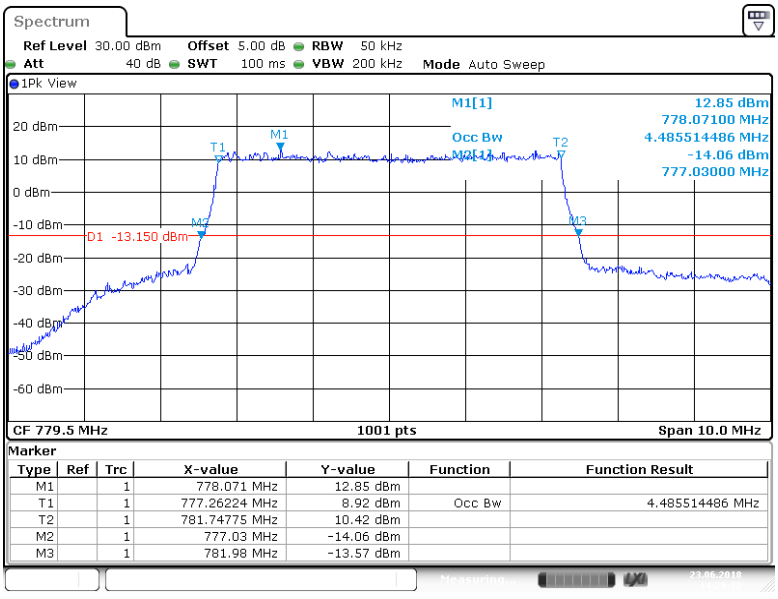
BAND 13_5MHz_64QAM_23230_25RB#0



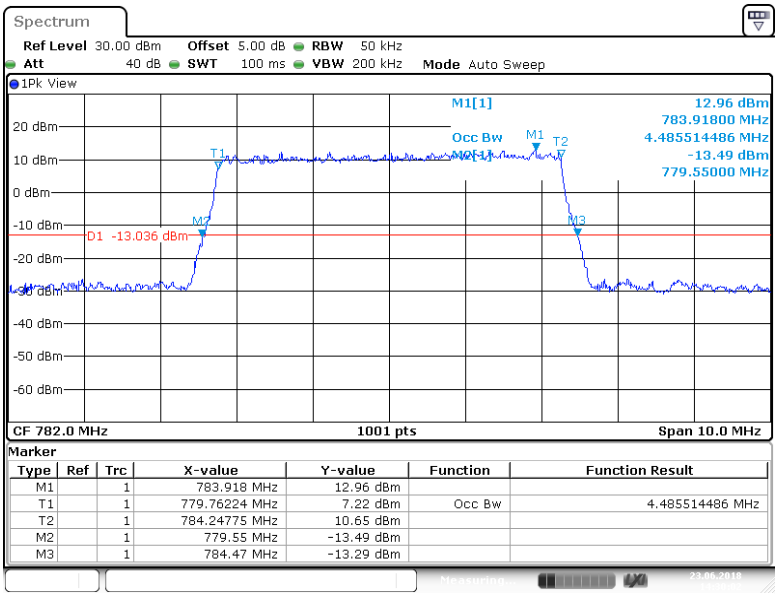
BAND 13_5MHz_64QAM_23255_25RB#0



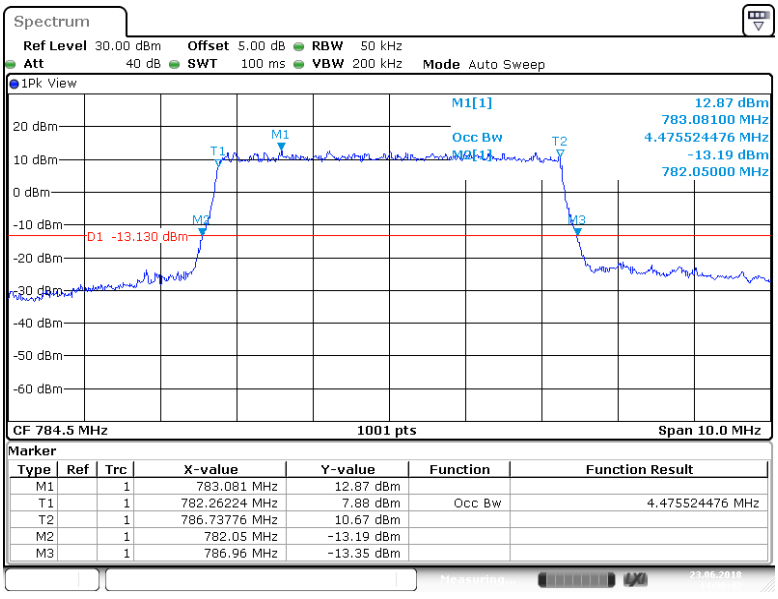
BAND 13_5MHz_16QAM_23205_25RB#0



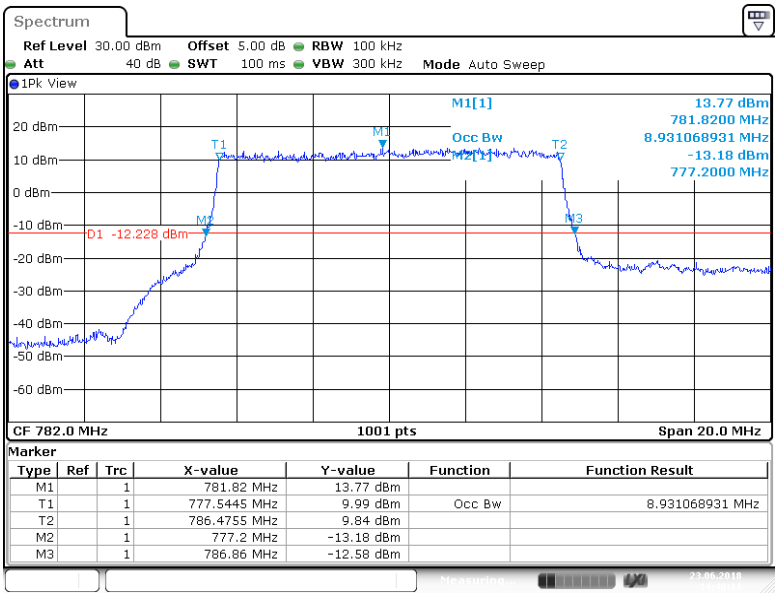
BAND 13_5MHz_16QAM_23230_25RB#0



BAND 13_5MHz_16QAM_23255_25RB#0

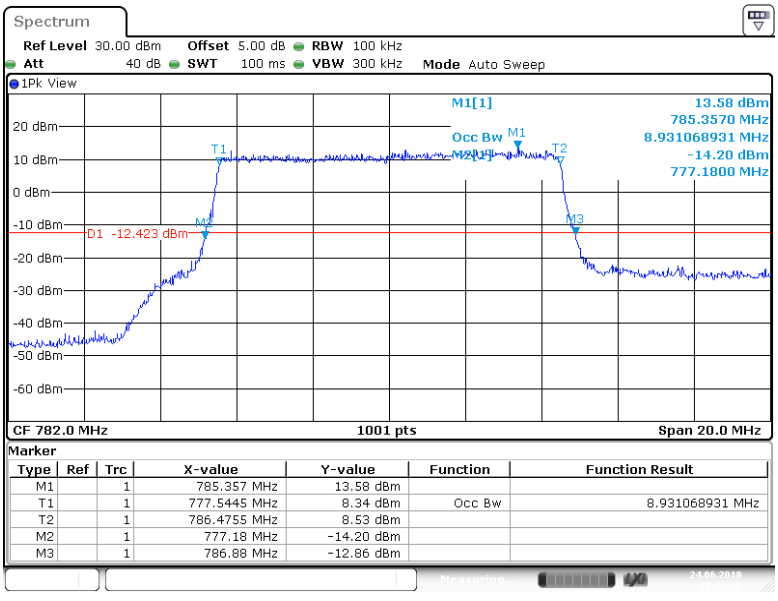


BAND 13_10MHz_QPSK_23230_50RB#0



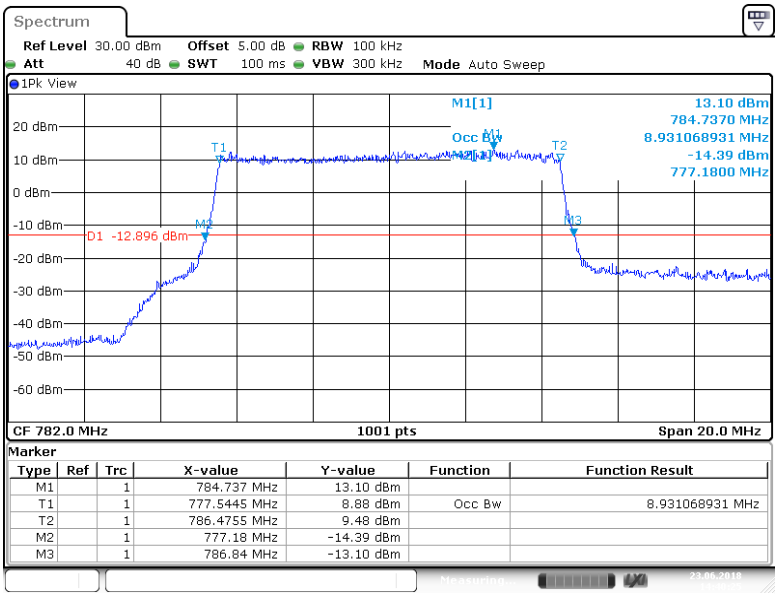
Date: 23.JUN.2018 14:40:12

BAND 13_10MHz_64QAM_23230_50RB#0



Date: 24.JUN.2018 10:32:40

BAND 13_10MHz_16QAM_23230_50RB#0



5. Band Edge Compliance

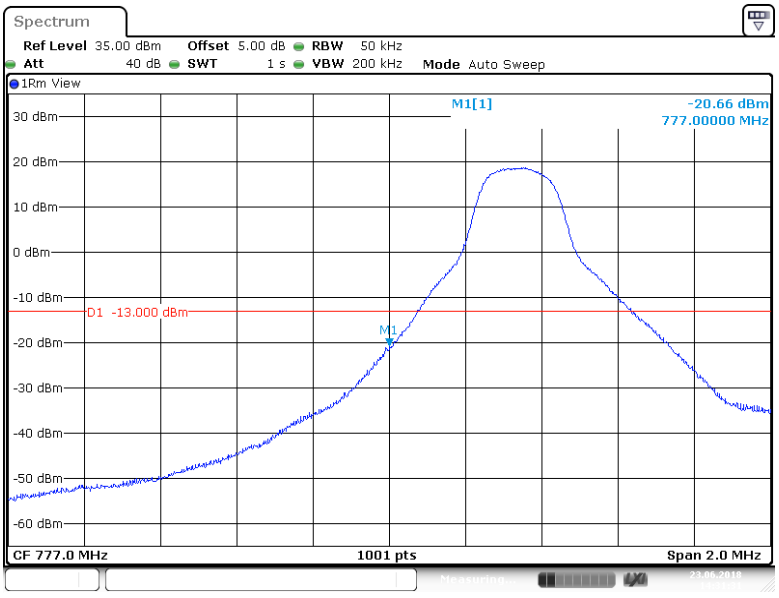
5.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
BAND 13	5MHz	QPSK	23205	1RB#0	-20.66	PASS
BAND 13	5MHz	QPSK	23205	1RB#24	-54.22	PASS
BAND 13	5MHz	QPSK	23205	25RB#0	-27.73	PASS
BAND 13	5MHz	QPSK	23255	1RB#0	-55.29	PASS
BAND 13	5MHz	QPSK	23255	1RB#24	-21.87	PASS
BAND 13	5MHz	QPSK	23255	25RB#0	-28.79	PASS
BAND 13	5MHz	64QAM	23205	1RB#0	-21.07	PASS
BAND 13	5MHz	64QAM	23205	1RB#24	-54.55	PASS
BAND 13	5MHz	64QAM	23205	25RB#0	-30.10	PASS
BAND 13	5MHz	64QAM	23255	1RB#0	-55.70	PASS
BAND 13	5MHz	64QAM	23255	1RB#24	-22.41	PASS
BAND 13	5MHz	64QAM	23255	25RB#0	-29.94	PASS
BAND 13	5MHz	16QAM	23205	1RB#0	-21.77	PASS
BAND 13	5MHz	16QAM	23205	1RB#24	-54.79	PASS
BAND 13	5MHz	16QAM	23205	25RB#0	-29.62	PASS
BAND 13	5MHz	16QAM	23255	1RB#0	-54.46	PASS
BAND 13	5MHz	16QAM	23255	1RB#24	-22.24	PASS
BAND 13	5MHz	16QAM	23255	25RB#0	-29.12	PASS
BAND13	10MHz	QPSK	23230_Left	1RB#0	-28.80	PASS
BAND13	10MHz	QPSK	23230_Left	1RB#49	-51.52	PASS
BAND13	10MHz	QPSK	23230_Left	50RB#0	-28.14	PASS
BAND13	10MHz	QPSK	23230_Right	1RB#0	-52.03	PASS
BAND13	10MHz	QPSK	23230_Right	1RB#49	-28.89	PASS
BAND13	10MHz	QPSK	23230_Right	50RB#0	-27.42	PASS
BAND13	10MHz	16QAM	23230_Left	1RB#0	-29.67	PASS
BAND13	10MHz	16QAM	23230_Left	1RB#49	-51.22	PASS
BAND13	10MHz	16QAM	23230_Left	50RB#0	-30.68	PASS
BAND13	10MHz	16QAM	23230_Right	1RB#0	-51.99	PASS
BAND13	10MHz	16QAM	23230_Right	1RB#49	-29.52	PASS
BAND13	10MHz	16QAM	23230_Right	50RB#0	-30.44	PASS
BAND13	10MHz	64QAM	23230_Left	1RB#0	-28.94	PASS
BAND13	10MHz	64QAM	23230_Left	1RB#49	-51.35	PASS
BAND13	10MHz	64QAM	23230_Left	50RB#0	-28.04	PASS
BAND13	10MHz	64QAM	23230_Right	1RB#0	-51.47	PASS
BAND13	10MHz	64QAM	23230_Right	1RB#49	-28.91	PASS

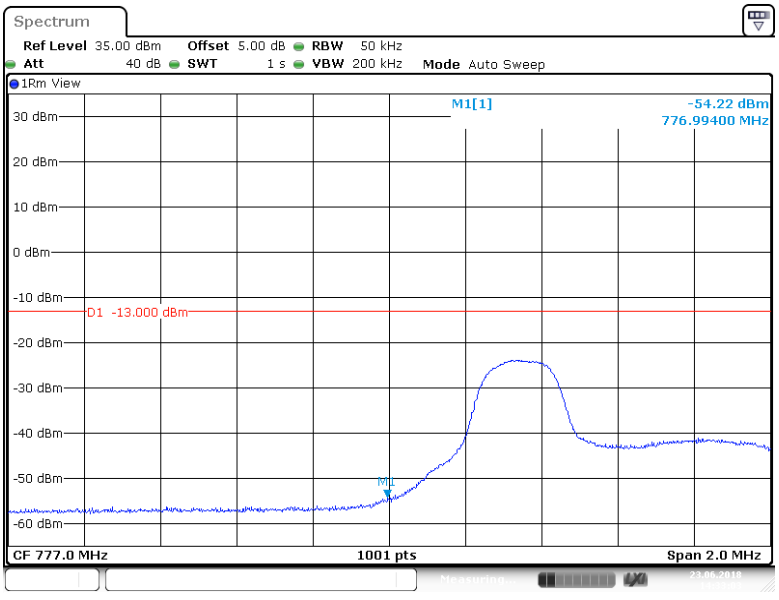
BAND13	10MHz	64QAM	23230_Right	50RB#0	-27.53	PASS

5.2. Test Plots

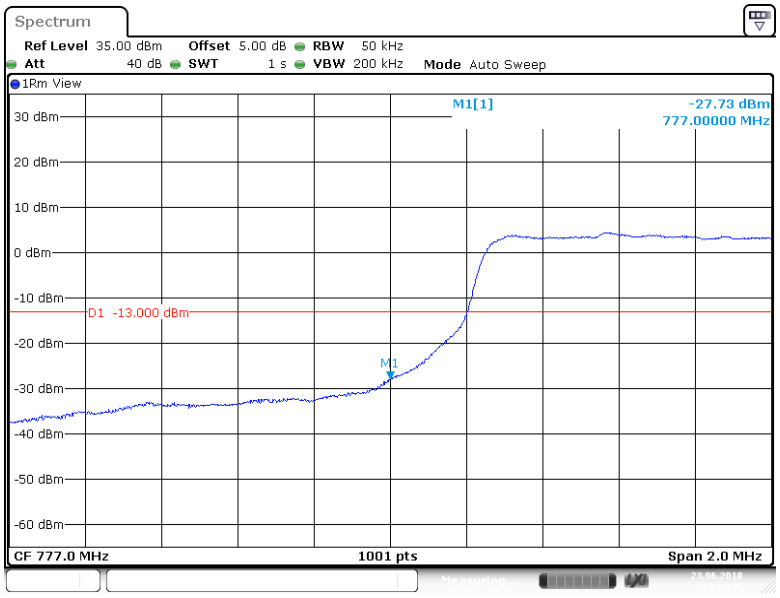
BAND 13_5MHz_QPSK_23205_1RB#0



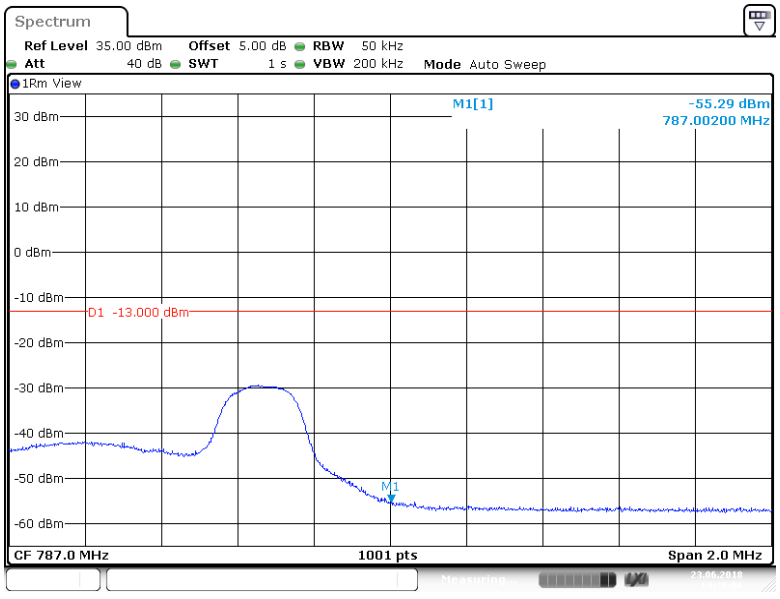
BAND 13_5MHz_QPSK_23205_1RB#24



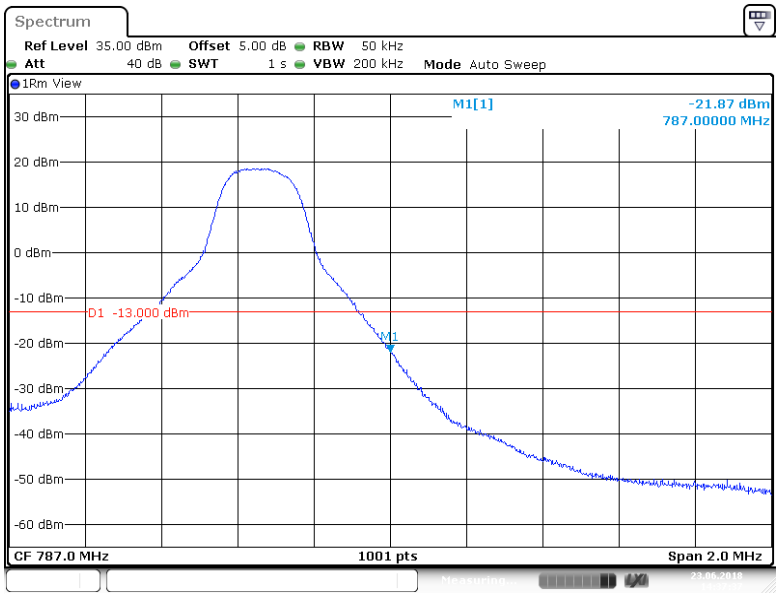
BAND 13_5MHz_QPSK_23205_25RB#0



BAND 13_5MHz_QPSK_23255_1RB#0

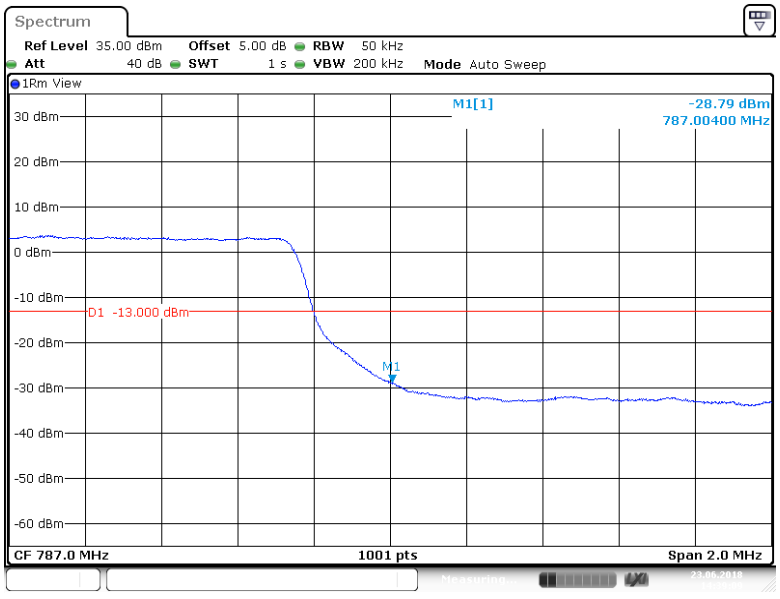


BAND 13_5MHz_QPSK_23255_1RB#24



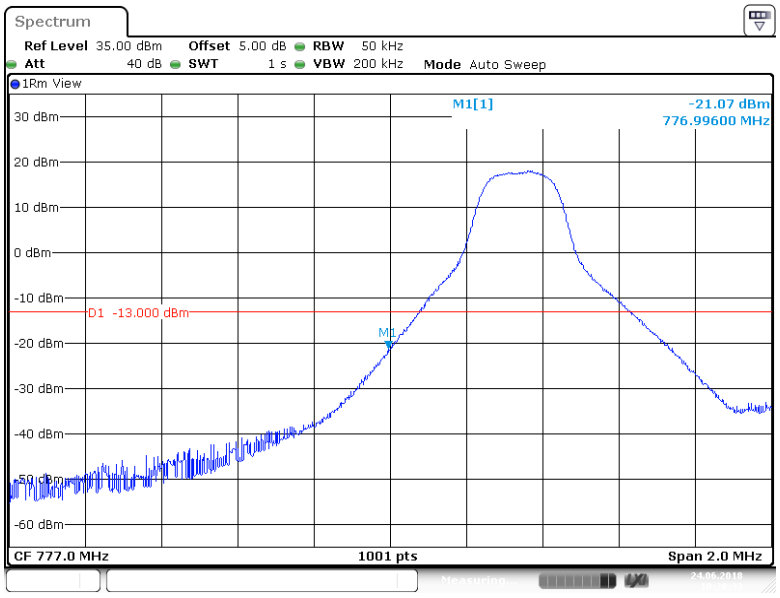
Date: 23.JUN.2018 14:37:38

BAND 13_5MHz_QPSK_23255_25RB#0

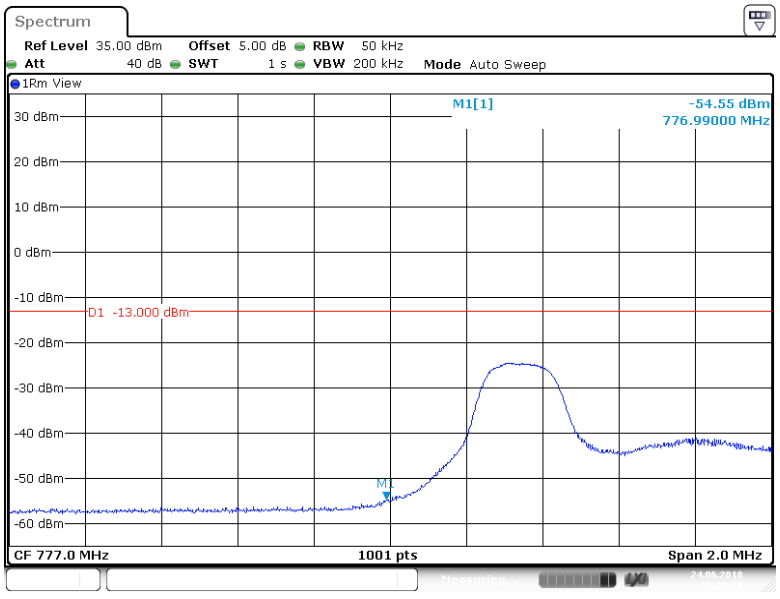


Date: 23.JUN.2018 14:39:09

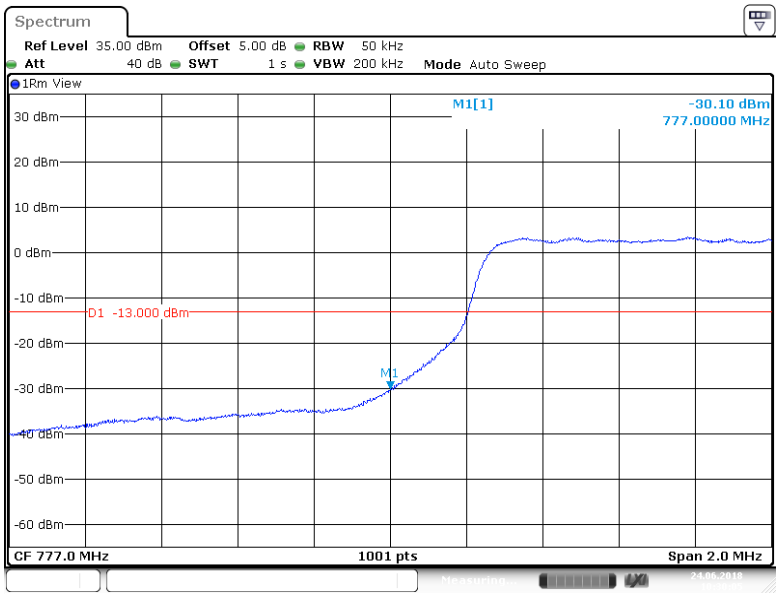
BAND 13_5MHz_64QAM_23205_1RB#0



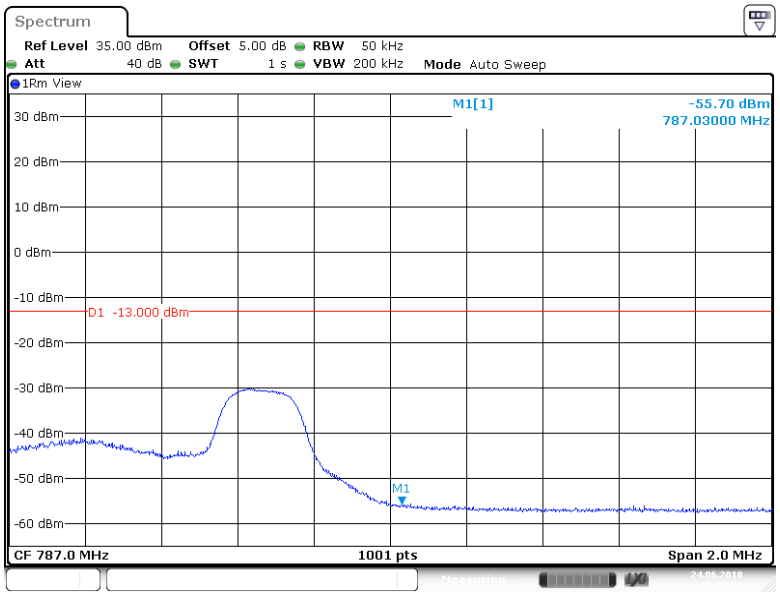
BAND 13_5MHz_64QAM_23205_1RB#24



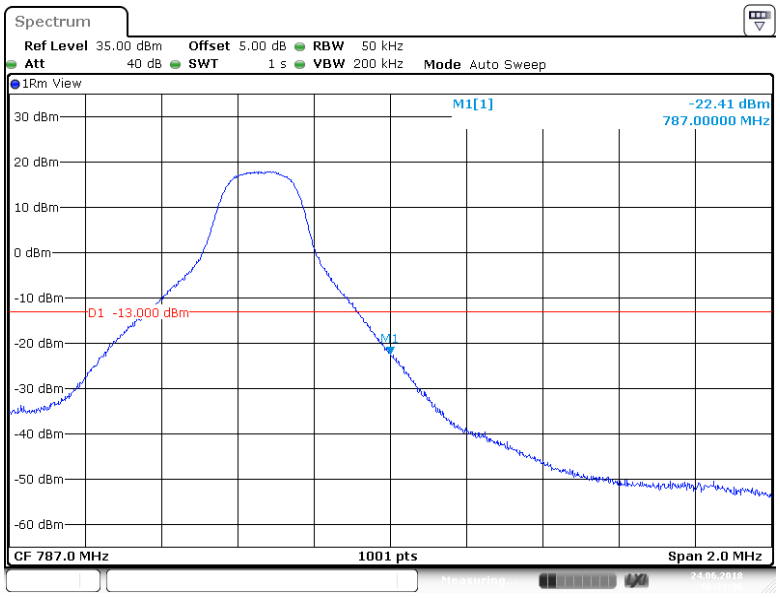
BAND 13_5MHz_64QAM_23205_25RB#0



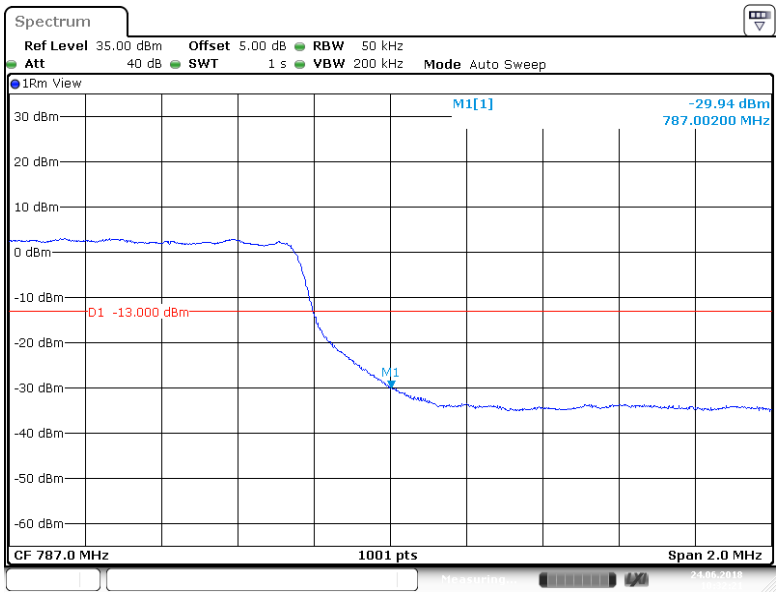
BAND 13_5MHz_64QAM_23255_1RB#0



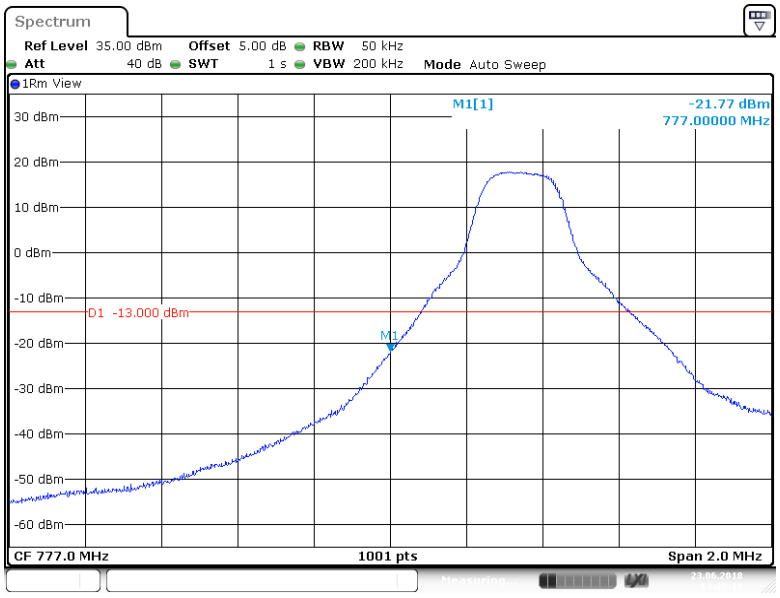
BAND 13_5MHz_64QAM_23255_1RB#24



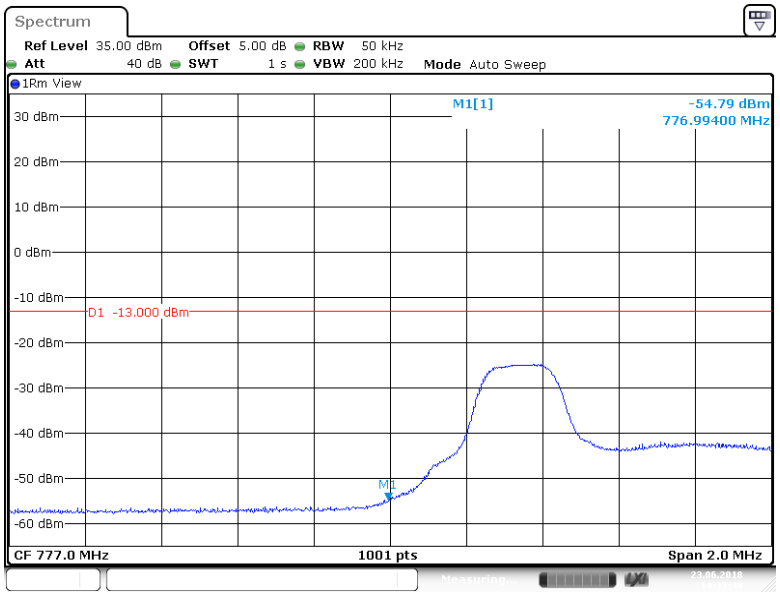
BAND 13_5MHz_64QAM_23255_25RB#0



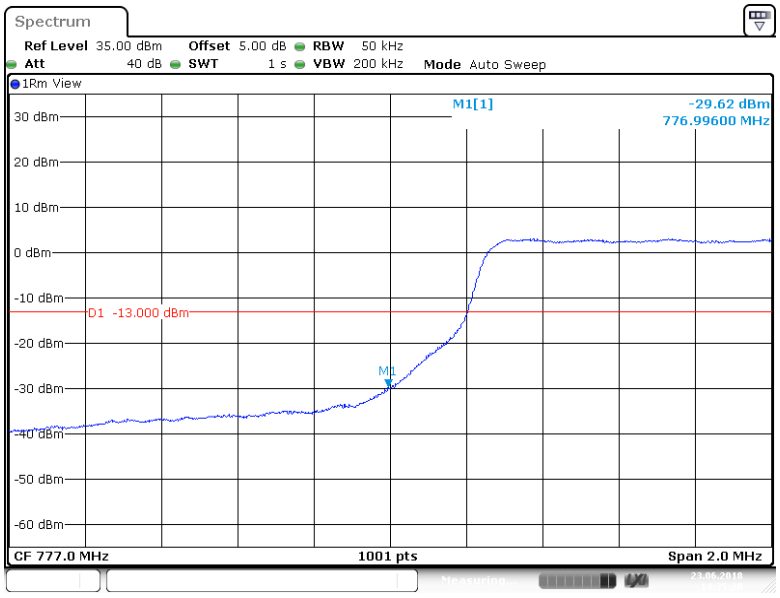
BAND 13_5MHz_16QAM_23205_1RB#0



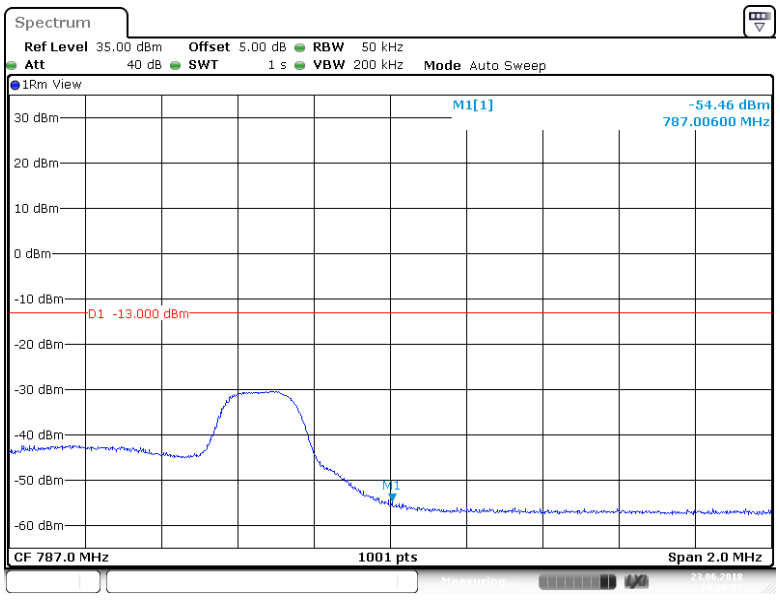
BAND 13_5MHz_16QAM_23205_1RB#24



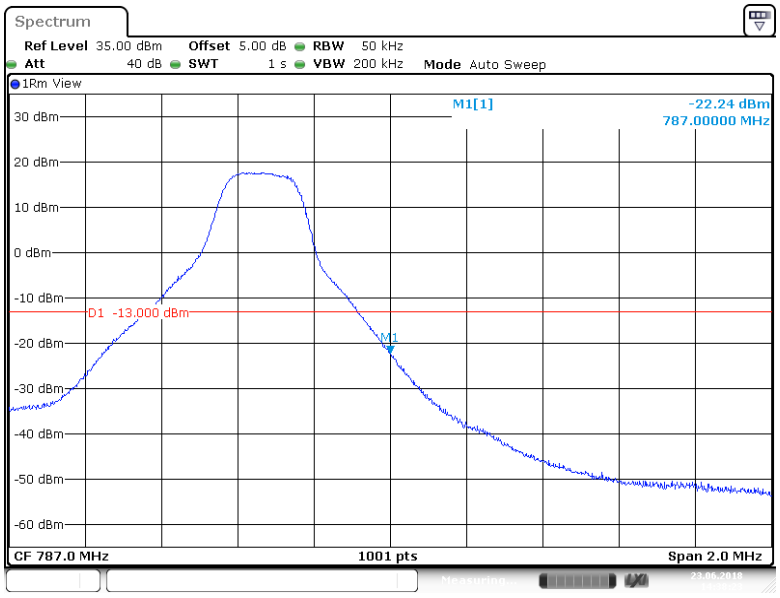
BAND 13_5MHz_16QAM_23205_25RB#0



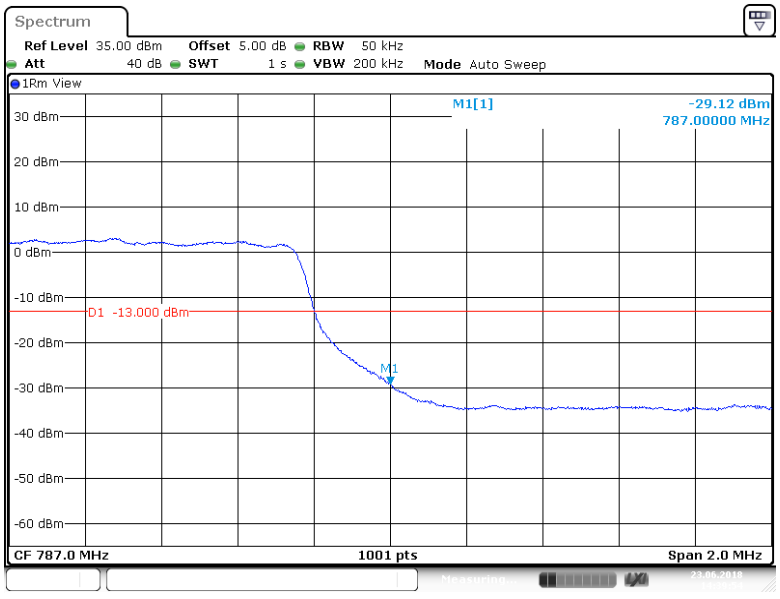
BAND 13_5MHz_16QAM_23255_1RB#0



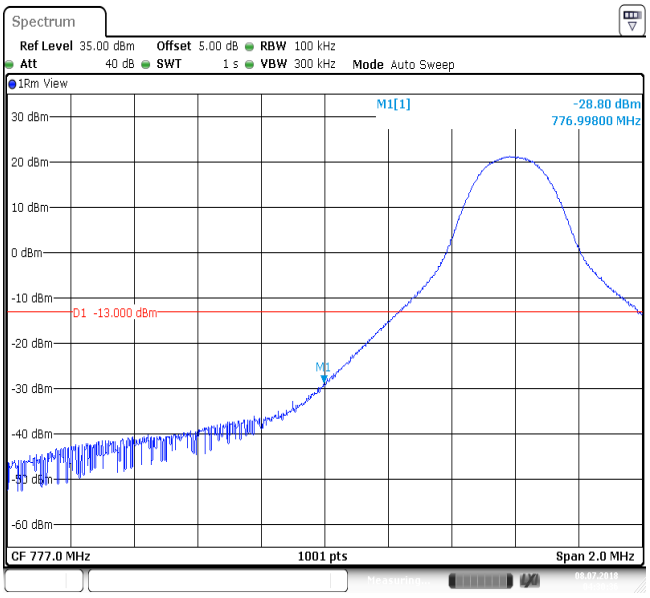
BAND 13_5MHz_16QAM_23255_1RB#24



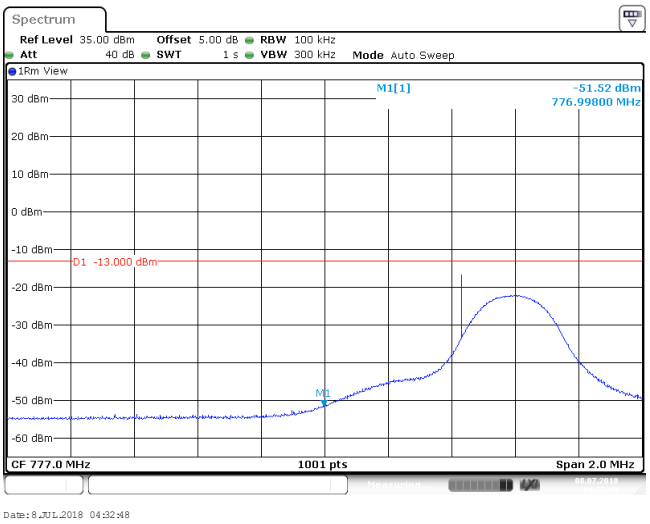
BAND 13_5MHz_16QAM_23255_25RB#0



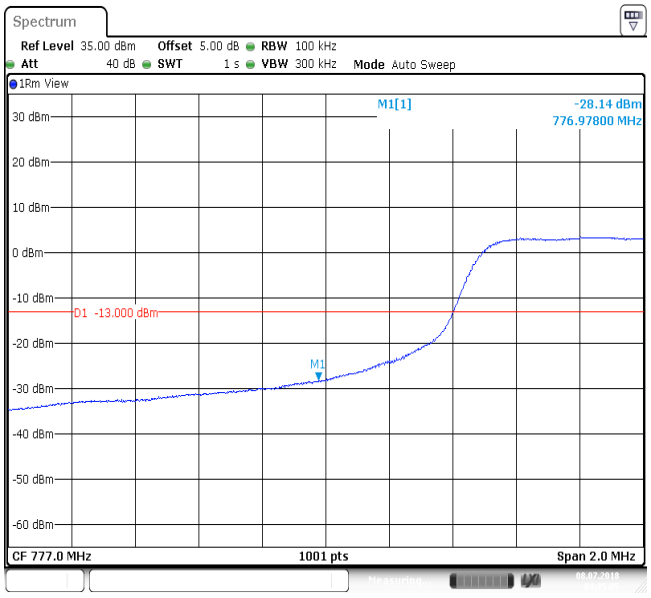
BAND13_10MHz_QPSK_23230_Left_1RB#0



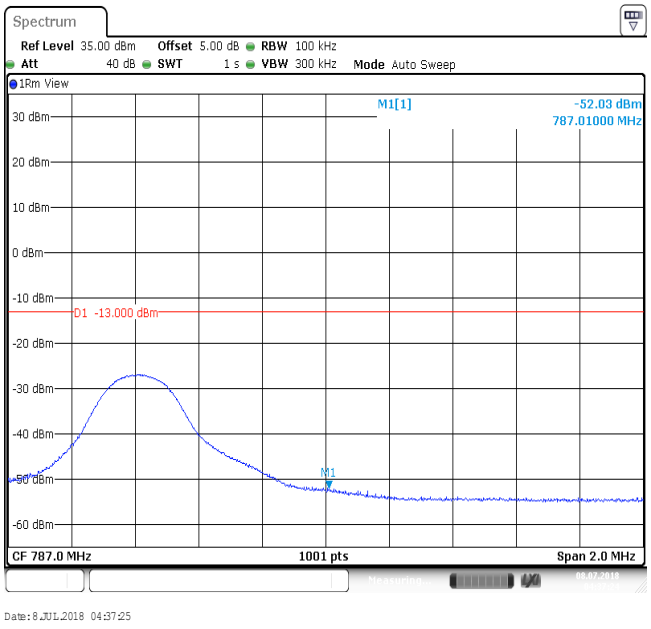
BAND13_10MHz_QPSK_23230_Left_1RB#49



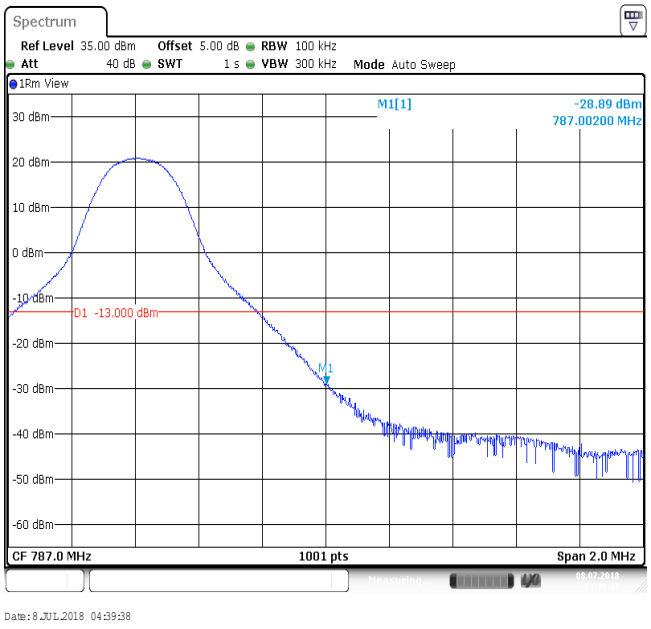
BAND13_10MHz_QPSK_23230_Left_50RB#0



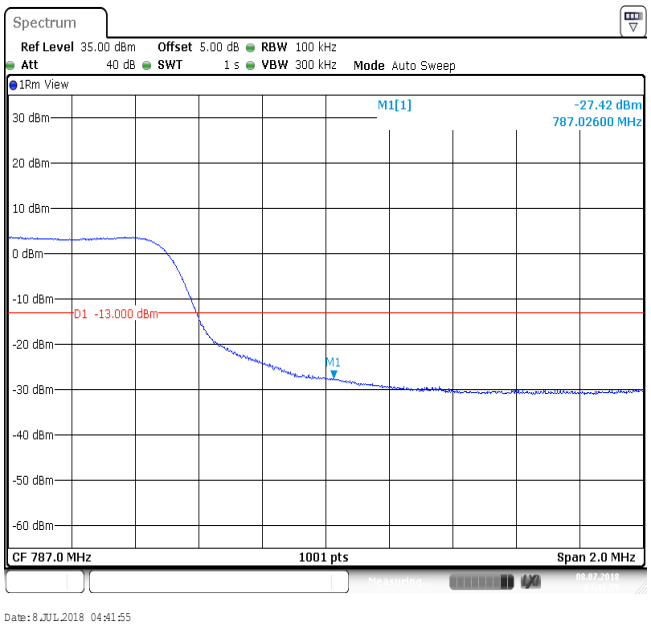
BAND13_10MHz_QPSK_23230_Right_1RB#0



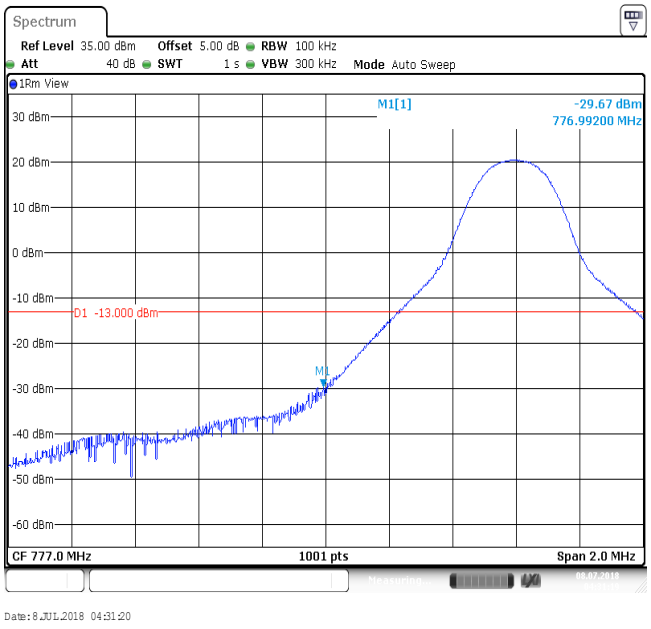
BAND13_10MHz_QPSK_23230_Right_1RB#49



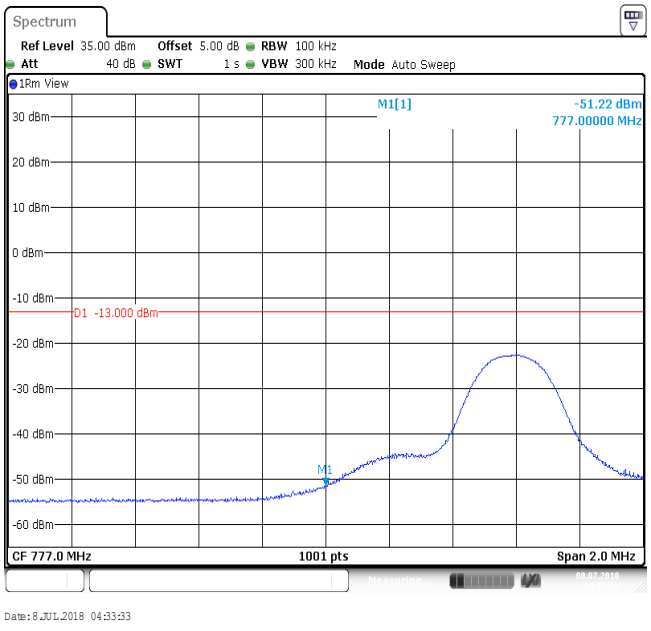
BAND13_10MHz_QPSK_23230_Right_50RB#0



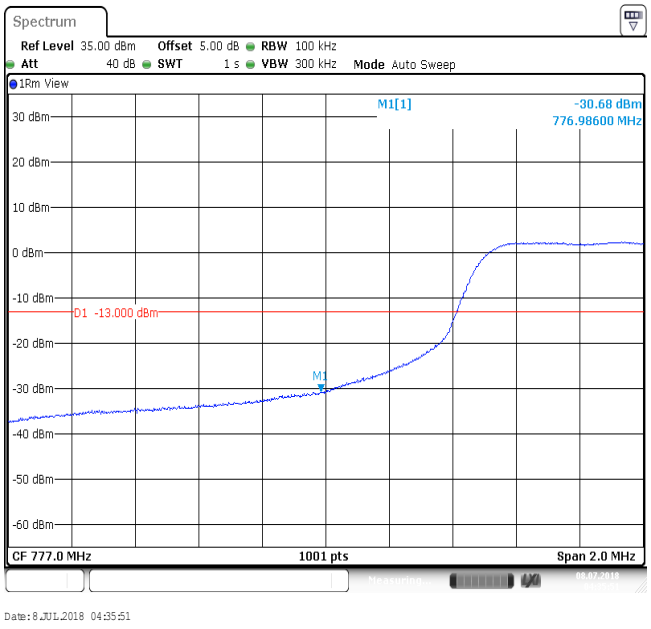
BAND13_10MHz_16QAM_23230_Left_1RB#0



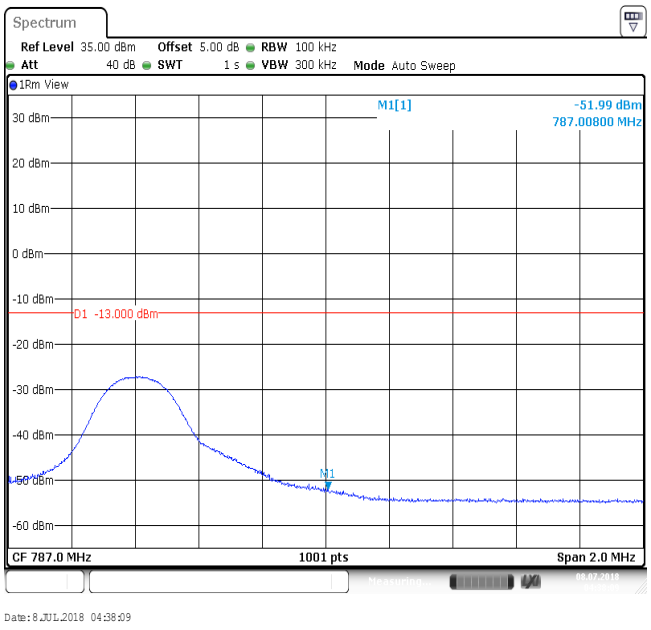
BAND13_10MHz_16QAM_23230_Left_1RB#49



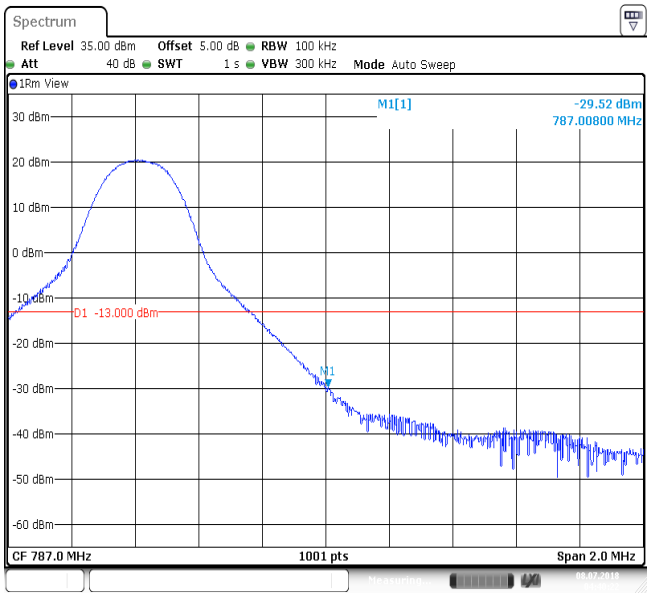
BAND13_10MHz_16QAM_23230_Left_50RB#0



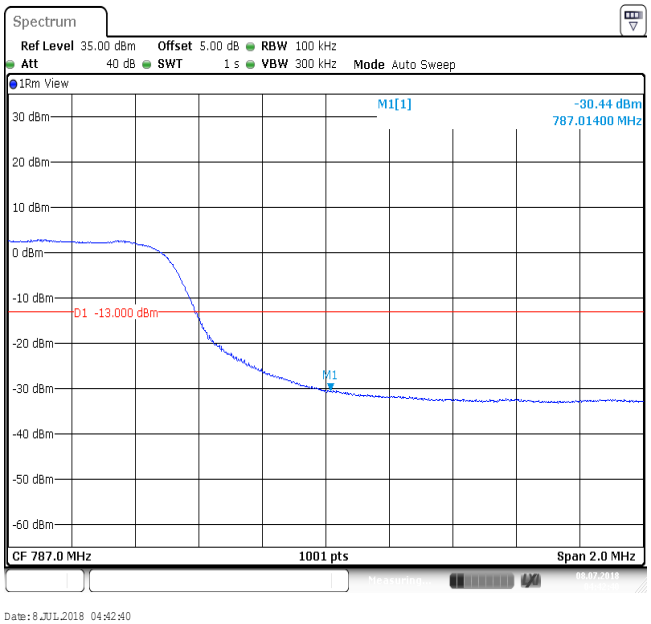
BAND13_10MHz_16QAM_23230_Right_1RB#0



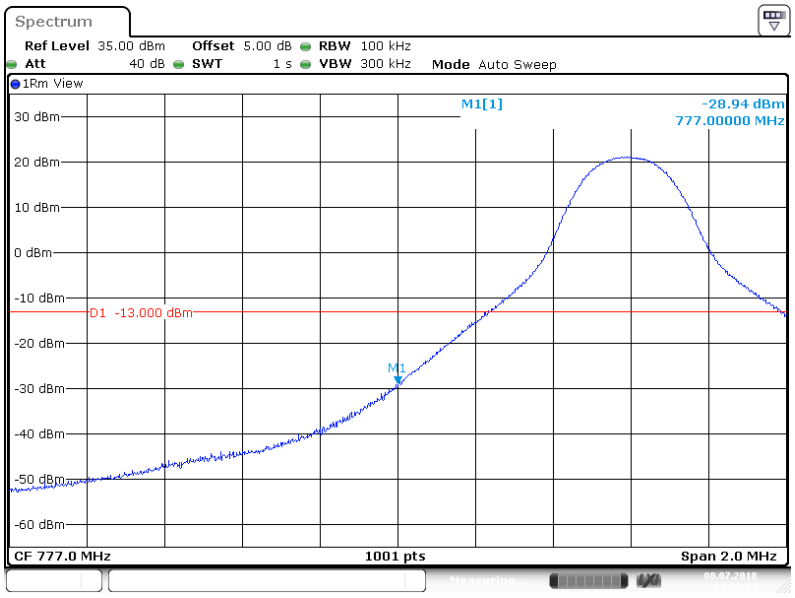
BAND13_10MHz_16QAM_23230_Right_1RB#49



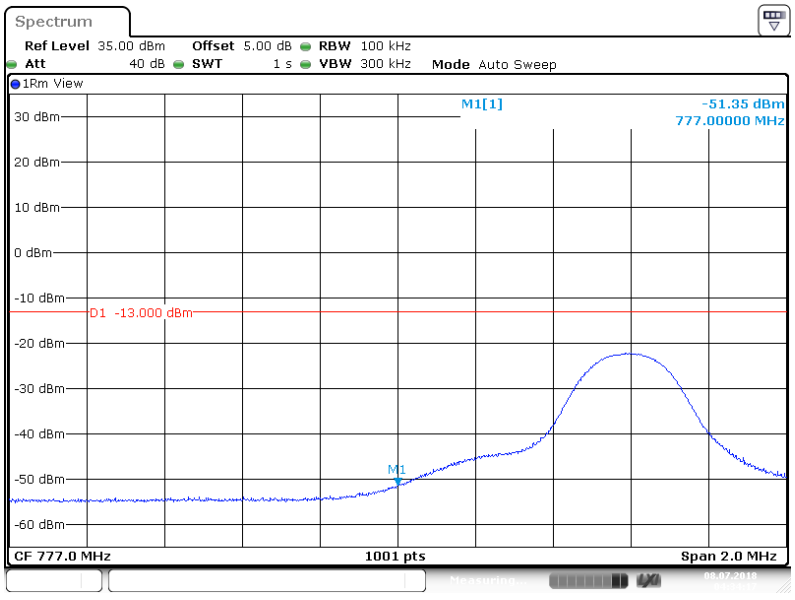
BAND13_10MHz_16QAM_23230_Right_50RB#0



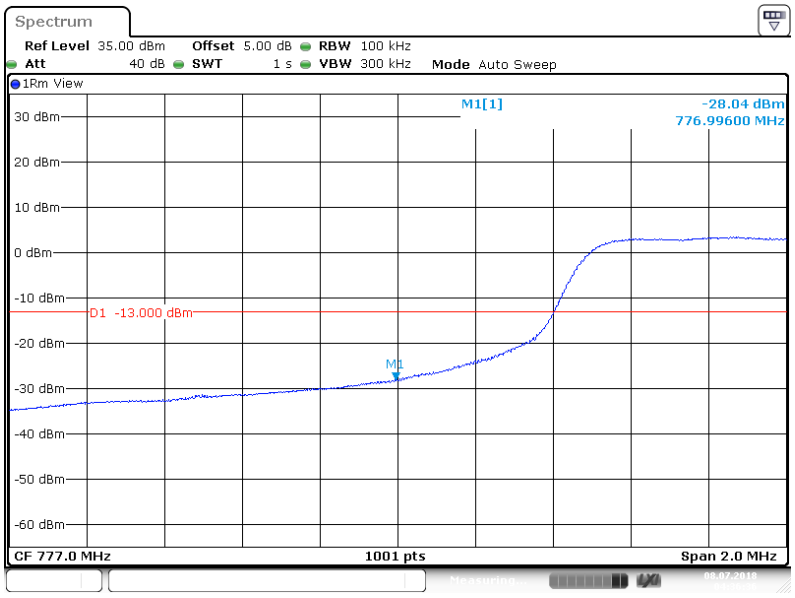
BAND13_10MHz_64QAM_23230_Left_1RB#0



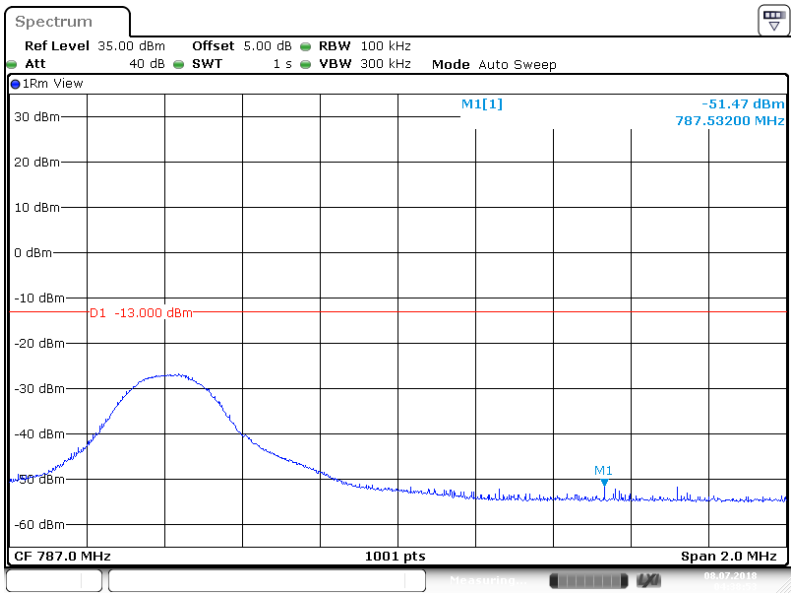
BAND13_10MHz_64QAM_23230_Left_1RB#49



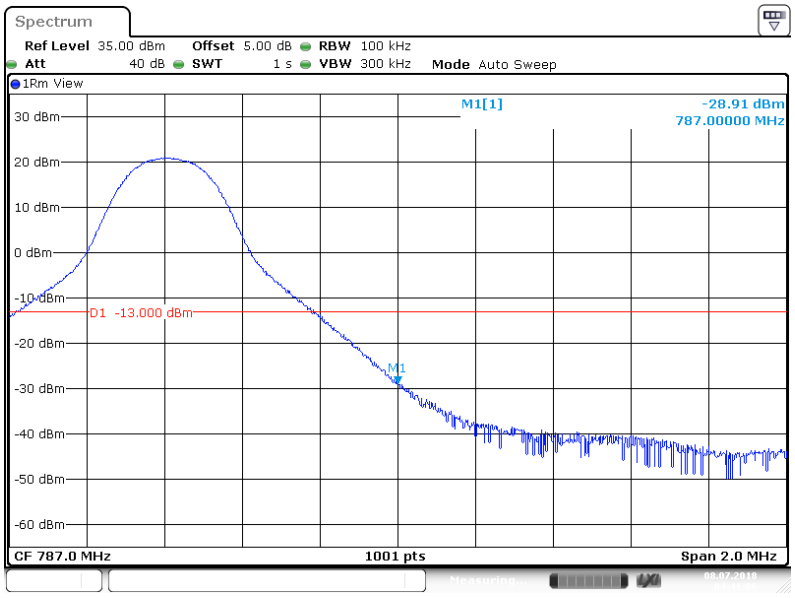
BAND13_10MHz_64QAM_23230_Left_50RB#0



BAND13_10MHz_64QAM_23230_ Right_1RB#0

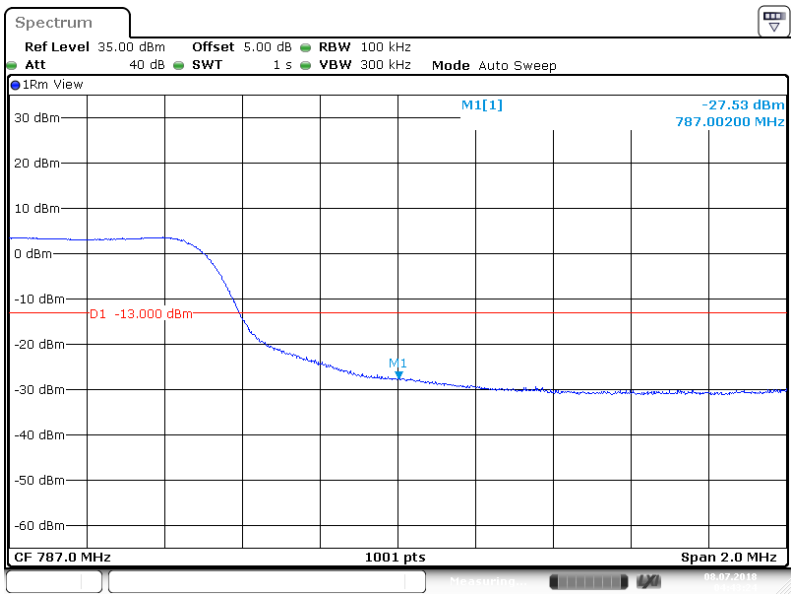


BAND13_10MHz_64QAM_23230_ Right_1RB#49



Date: 8.JUL.2018 04:41:06

BAND13_10MHz_64QAM_23230_Right_50RB#0



Date: 8.JUL.2018 04:43:25

6. Spurious Emission at Antenna Terminal

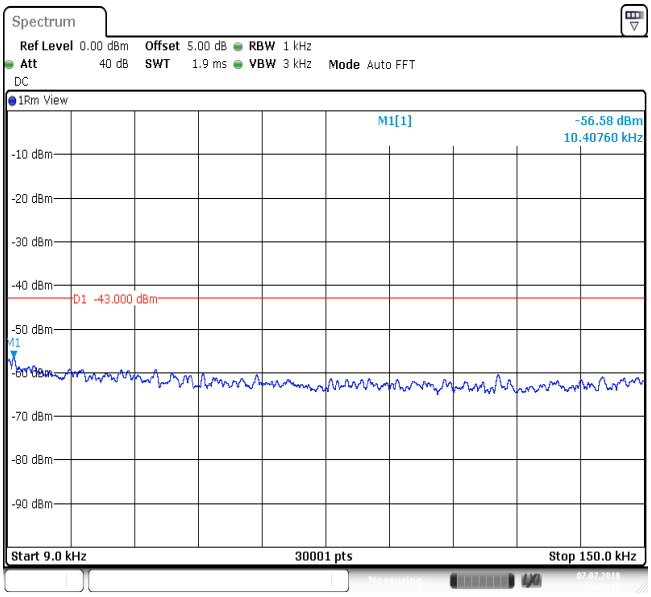
NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowBAND signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span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

6.1. Test Result

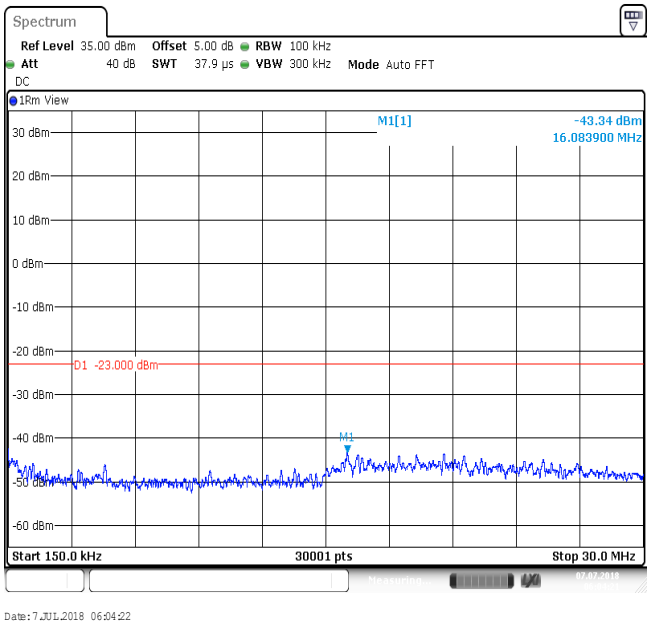
BAND	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
BAND13	10MHz	QPSK	23230	1RB#0	Range1:0.009~0.15MHz	-56.58	PASS
BAND13	10MHz	QPSK	23230	1RB#0	Range2:0.15~30MHz	-43.34	PASS
BAND13	10MHz	QPSK	23230	1RB#0	Range3:30~1000MHz	-33.88	PASS
BAND13	10MHz	QPSK	23230	1RB#0	Range4:1000~1559MHz	-44.73	PASS
BAND13	10MHz	QPSK	23230	1RB#0	Range5:1559~1610MHz	-45.05	PASS
BAND13	10MHz	QPSK	23230	1RB#0	Range6:1610~5000MHz	-41.57	PASS
BAND13	10MHz	QPSK	23230	1RB#0	Range7:5000~12000MHz	-39	PASS
BAND13	10MHz	64QAM	23230	1RB#0	Range1:0.009~0.15MHz	-55.54	PASS
BAND13	10MHz	64QAM	23230	1RB#0	Range2:0.15~30MHz	-43.21	PASS
BAND13	10MHz	64QAM	23230	1RB#0	Range3:30~1000MHz	-33.8	PASS
BAND13	10MHz	64QAM	23230	1RB#0	Range4:1000~1559MHz	-44.81	PASS
BAND13	10MHz	64QAM	23230	1RB#0	Range5:1559~1610MHz	-45.1	PASS
BAND13	10MHz	64QAM	23230	1RB#0	Range6:1610~5000MHz	-41.66	PASS
BAND13	10MHz	64QAM	23230	1RB#0	Range7:5000~12000MHz	-38.67	PASS
BAND13	10MHz	16QAM	23230	1RB#0	Range1:0.009~0.15MHz	-57.02	PASS
BAND13	10MHz	16QAM	23230	1RB#0	Range2:0.15~30MHz	-42.9	PASS
BAND13	10MHz	16QAM	23230	1RB#0	Range3:30~1000MHz	-34.4	PASS
BAND13	10MHz	16QAM	23230	1RB#0	Range4:1000~1559MHz	-44.95	PASS
BAND13	10MHz	16QAM	23230	1RB#0	Range5:1559~1610MHz	-45.1	PASS
BAND13	10MHz	16QAM	23230	1RB#0	Range6:1610~5000MHz	-41.69	PASS
BAND13	10MHz	16QAM	23230	1RB#0	Range7:5000~12000MHz	-39.01	PASS

6.2. Test Plots

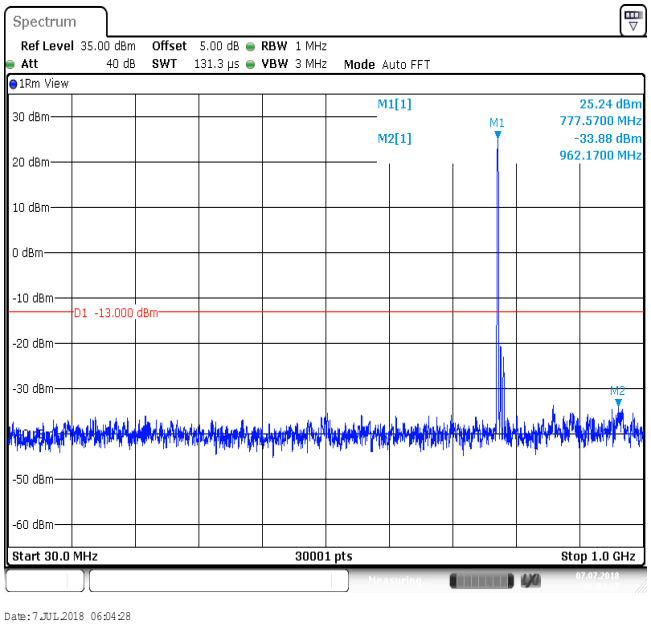
BAND13_10MHz_QPSK_23230_1RB#0



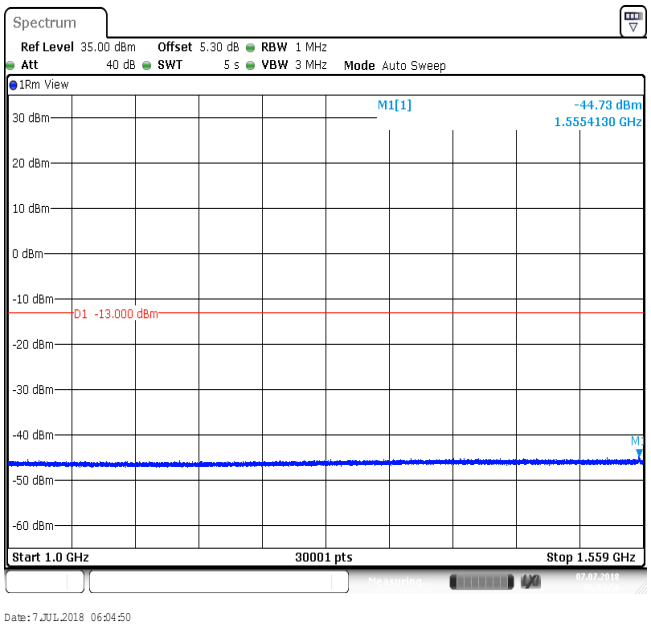
BAND13_10MHz_QPSK_23230_1RB#0



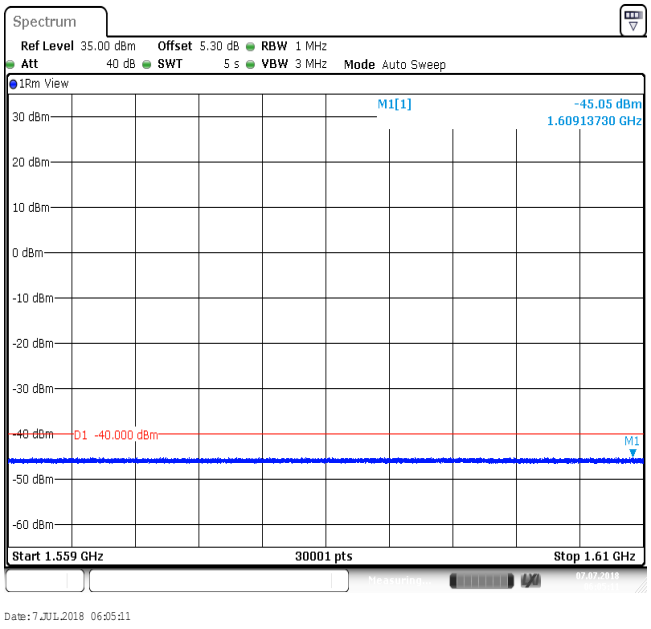
BAND13_10MHz_QPSK_23230_1RB#0



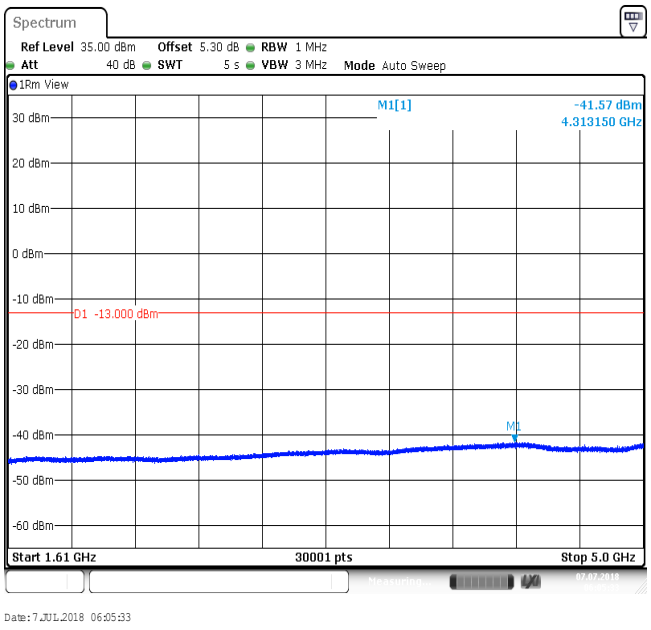
BAND13_10MHz_QPSK_23230_1RB#0



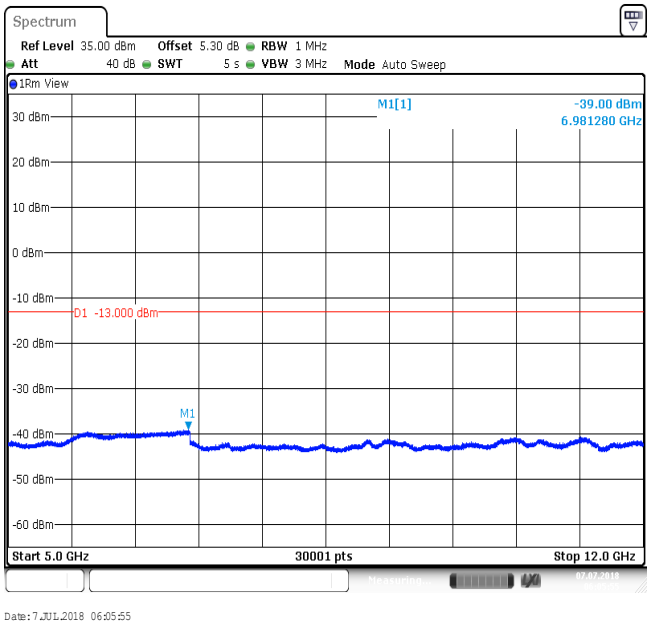
BAND13_10MHz_QPSK_23230_1RB#0



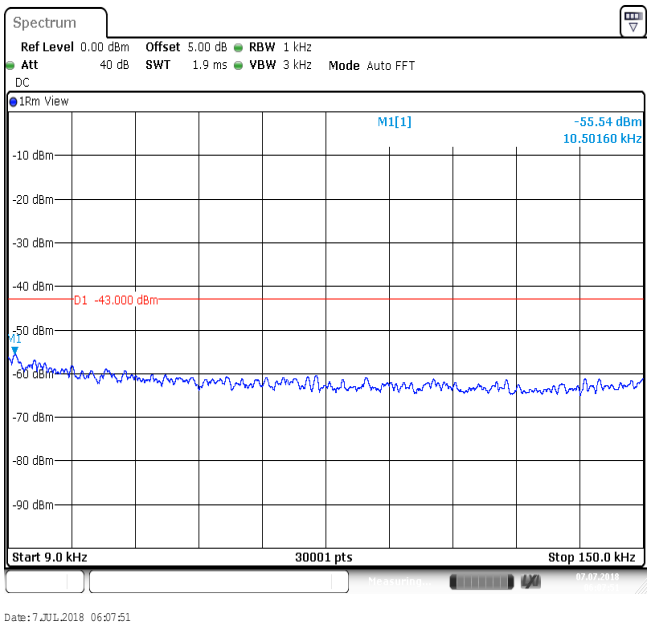
BAND13_10MHz_QPSK_23230_1RB#0



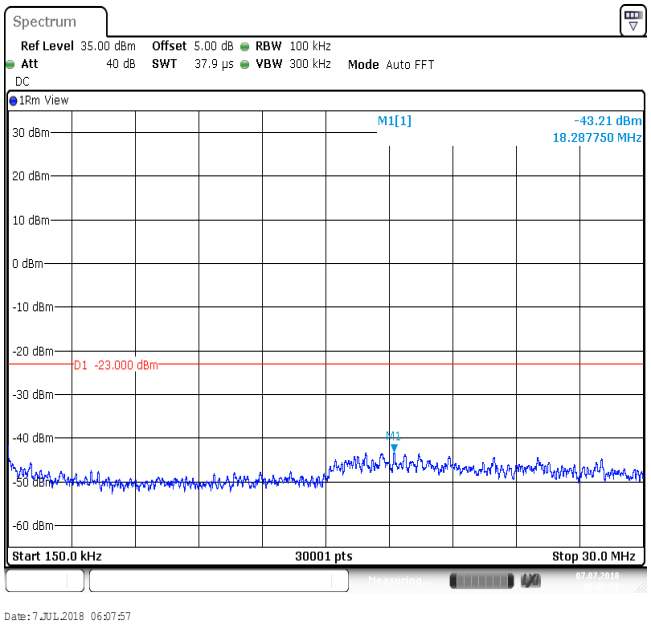
BAND13_10MHz_QPSK_23230_1RB#0



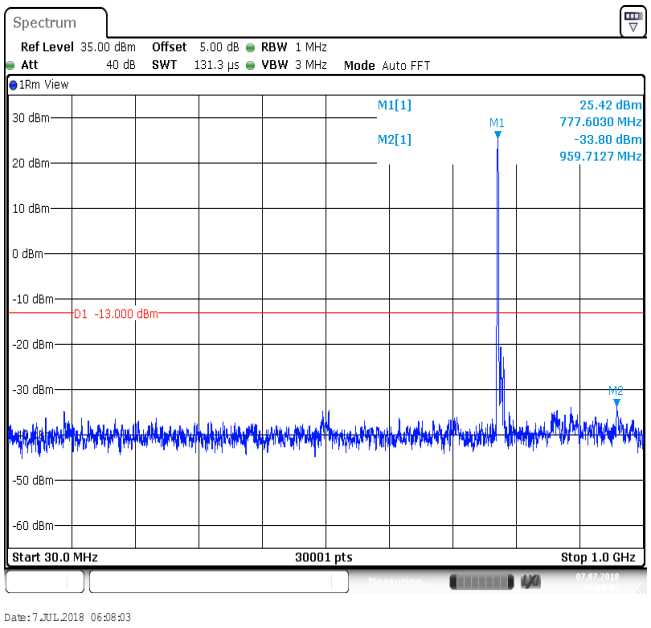
BAND13_10MHz_64QAM_23230_1RB#0



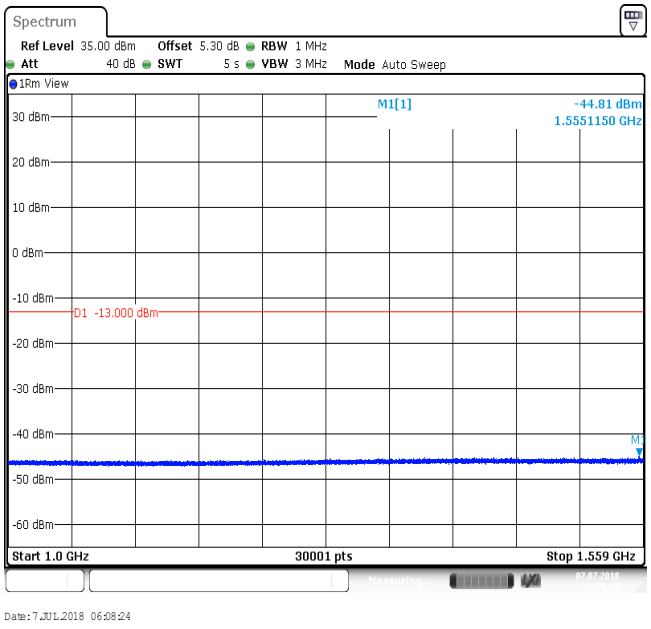
BAND13_10MHz_64QAM_23230_1RB#0



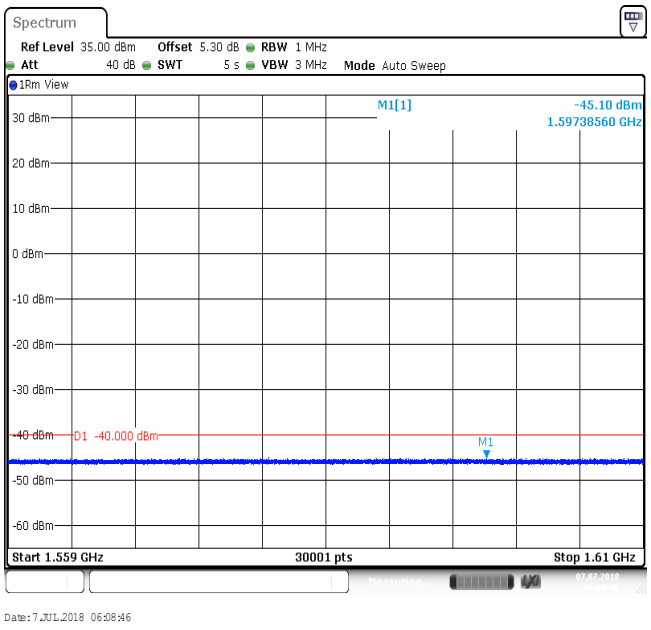
BAND13_10MHz_64QAM_23230_1RB#0



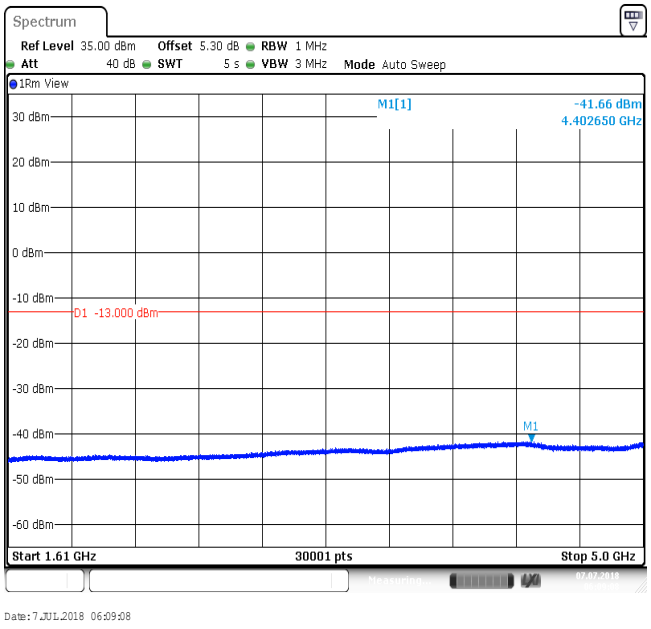
BAND13_10MHz_64QAM_23230_1RB#0



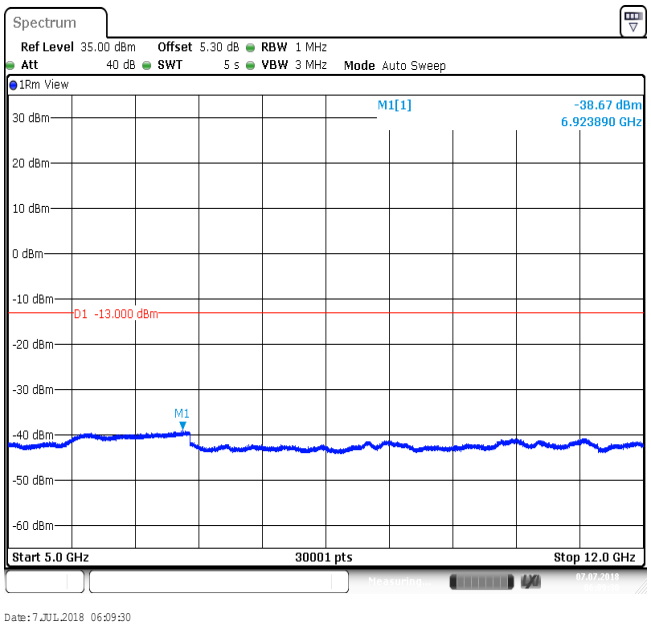
BAND13_10MHz_64QAM_23230_1RB#0



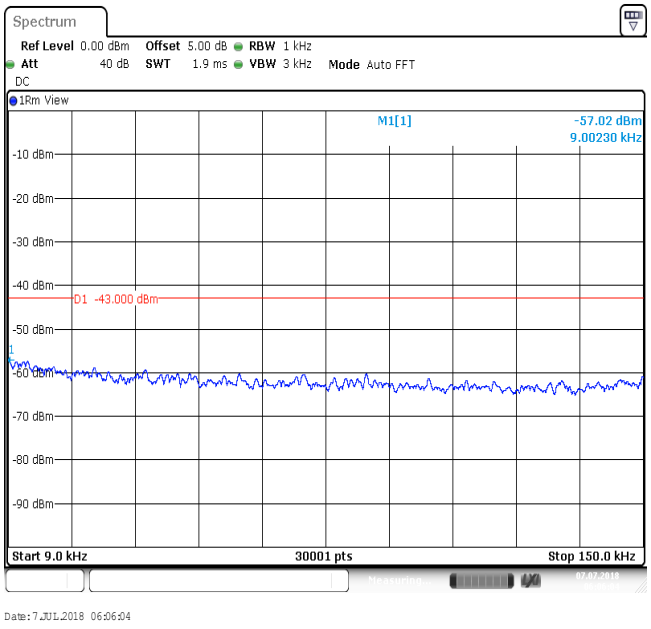
BAND13_10MHz_64QAM_23230_1RB#0



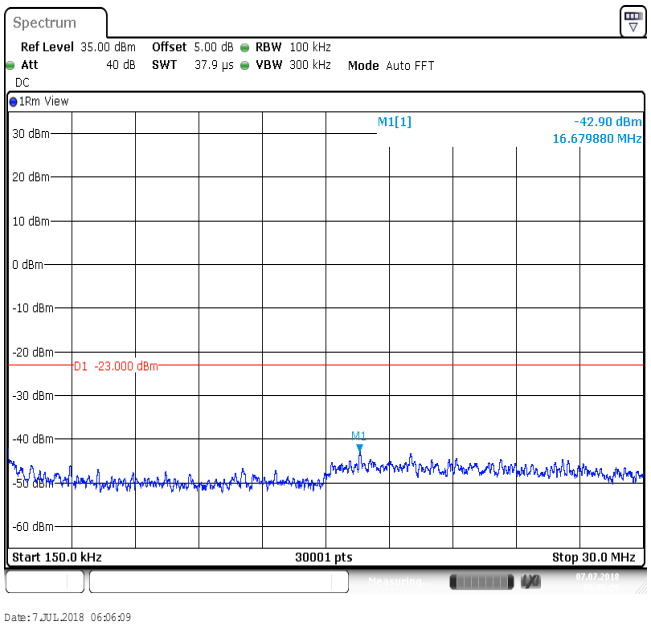
BAND13_10MHz_64QAM_23230_1RB#0



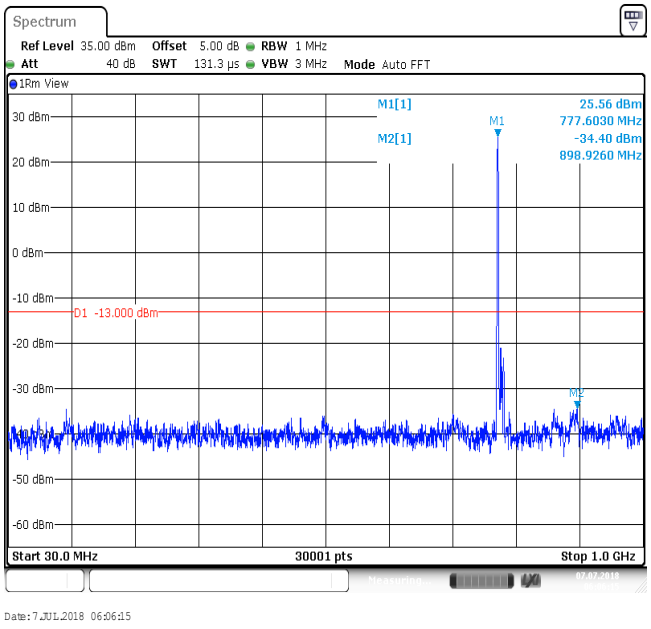
BAND13_10MHz_16QAM_23230_1RB#0



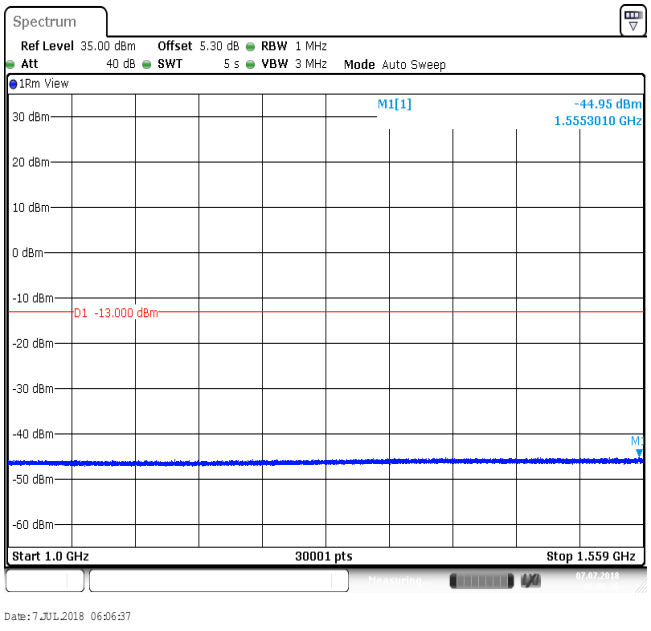
BAND13_10MHz_16QAM_23230_1RB#0



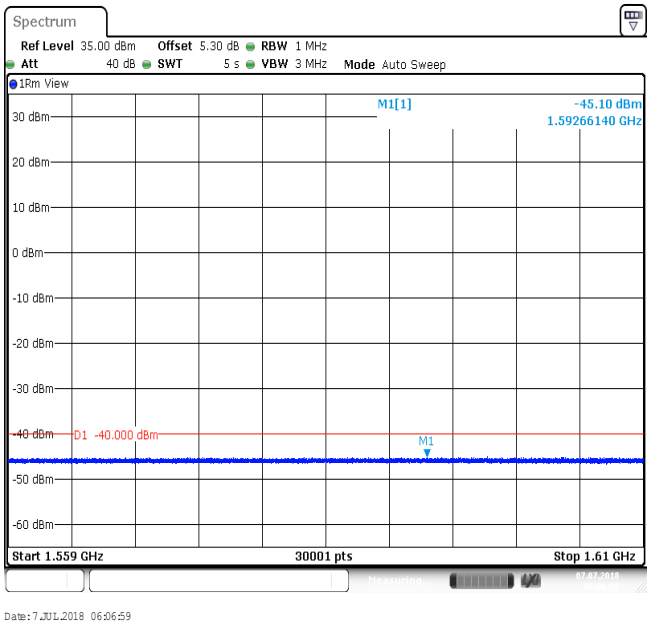
BAND13_10MHz_16QAM_23230_1RB#0



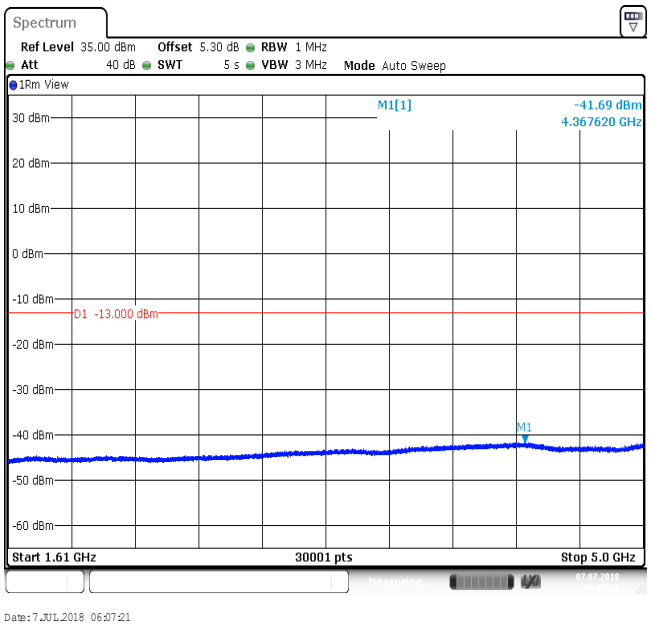
BAND13_10MHz_16QAM_23230_1RB#0



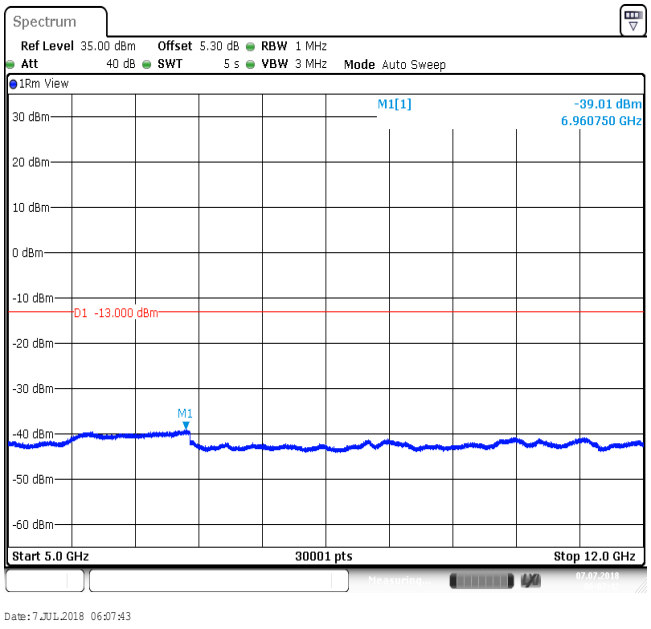
BAND13_10MHz_16QAM_23230_1RB#0



BAND13_10MHz_16QAM_23230_1RB#0



BAND13_10MHz_16QAM_23230_1RB#0



7. Field Strength of Spurious Radiation

7.1. Test BAND = LTE BAND 13

7.1.1. Test Mode =LTE/TM1 10MHz

7.1.1.1. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
72.280000	-74.41	-13	61.41	Vertical
182.646667	-78.49	-13	65.49	Vertical
260.113333	-79.85	-13	66.85	Vertical
1595.500000	-66.09	-13	53.09	Vertical
4219.725000	-67.41	-13	54.41	Vertical
7990.537500	-64.23	-13	51.23	Vertical
63.413333	-73.23	-13	60.23	Horizontal
189.600000	-78.23	-13	65.23	Horizontal
1555.000000	-78.9	-13	65.9	Horizontal
4780.350000	-67.23	-13	54.23	Horizontal
6251.625000	-68.11	-13	55.11	Horizontal
9841.575000	-66.45	-13	53.45	Horizontal

NOTE:

1) All modes are tested, but the data presented above is the worst case.the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
2) We have tested all modulation and all Bandwidth, but only the worst case data presented in this report.

8. Frequency Stability

8.1. Frequency Vs Voltage

Voltage										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BAND 13	10MHz	QPSK	23230	50RB#0	VL	NT	-2.00	-0.002558	±2.5	PASS
BAND 13	10MHz	QPSK	23230	50RB#0	VN	NT	-3.20	-0.004092	±2.5	PASS
BAND 13	10MHz	QPSK	23230	50RB#0	VH	NT	0.40	0.000512	±2.5	PASS
BAND 13	10MHz	64QAM	23230	50RB#0	VL	NT	0.20	0.000256	±2.5	PASS
BAND 13	10MHz	64QAM	23230	50RB#0	VN	NT	1.40	0.001790	±2.5	PASS
BAND 13	10MHz	64QAM	23230	50RB#0	VH	NT	6.70	0.008568	±2.5	PASS
BAND 13	10MHz	16QAM	23230	50RB#0	VL	NT	0.40	0.000512	±2.5	PASS
BAND 13	10MHz	16QAM	23230	50RB#0	VN	NT	1.50	0.001918	±2.5	PASS
BAND 13	10MHz	16QAM	23230	50RB#0	VH	NT	0.40	0.000512	±2.5	PASS

8.2. Frequency Vs Temperature

Temperature										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BAND 13	10MHz	QPSK	23230	50RB#0	NV	-30	-0.30	-0.000384	±2.5	PASS
BAND 13	10MHz	QPSK	23230	50RB#0	NV	-20	0.00	0.000000	±2.5	PASS
BAND 13	10MHz	QPSK	23230	50RB#0	NV	0	-0.70	-0.000895	±2.5	PASS
BAND 13	10MHz	QPSK	23230	50RB#0	NV	10	0.90	0.001151	±2.5	PASS
BAND 13	10MHz	QPSK	23230	50RB#0	NV	20	0.20	0.000256	±2.5	PASS
BAND 13	10MHz	64QAM	23230	50RB#0	NV	-30	1.40	0.001790	±2.5	PASS
BAND 13	10MHz	64QAM	23230	50RB#0	NV	-20	-4.90	-0.006266	±2.5	PASS
BAND 13	10MHz	64QAM	23230	50RB#0	NV	0	3.10	0.003964	±2.5	PASS
BAND 13	10MHz	64QAM	23230	50RB#0	NV	10	3.50	0.004476	±2.5	PASS
BAND 13	10MHz	64QAM	23230	50RB#0	NV	20	3.50	0.004476	±2.5	PASS
BAND 13	10MHz	16QAM	23230	50RB#0	NV	-30	1.10	0.001407	±2.5	PASS
BAND 13	10MHz	16QAM	23230	50RB#0	NV	-20	1.50	0.001918	±2.5	PASS
BAND 13	10MHz	16QAM	23230	50RB#0	NV	0	0.60	0.000767	±2.5	PASS
BAND 13	10MHz	16QAM	23230	50RB#0	NV	10	1.00	0.001279	±2.5	PASS
BAND 13	10MHz	16QAM	23230	50RB#0	NV	20	1.50	0.001918	±2.5	PASS

The End