Appendix B.14

E-UTRA Band 66

Table of Contents

1. MAIN TEST INSTRUMENTS 3

2. MEASUREMENT UNCERTAINTY 3

3. EFFECTIVE (ISOTROPIC) RADIATED POWER 4

3.1. TEST RESULT 4

4. PEAK-TO-AVERAGE RATIO(CCDF) 10

4.1. TEST RESULT 10

4.2. TEST PLOTS 10

5. MODULATION CHARACTERISTICS 13

5.1. TEST BAND = LTE BAND 66 13

5.2. TEST MODE = LTE /TM1 20MHZ 13

5.2.1. TEST CHANNEL = MCH 13

5.3. TEST MODE = LTE /TM2 20MHZ 14

5.3.1. TEST CHANNEL = MCH 14

6. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH 15

6.1. TEST RESULT 15

6.2. TEST PLOTS 16

7. BAND EDGE COMPLIANCE 28

7.1. TEST PLOTS 28

8. SPURIOUS EMISSION AT ANTENNA TERMINAL 45

8.1. TEST PLOTS 45

9. FREQUENCY STABILITY 50

9.1. FREQUENCY VS VOLTAGE 50

9.2. FREQUENCY VS TEMPERATURE 51

1. Main Test Instruments

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12
Spectrum Analyzer (20Hz-43GHz)	Rohde & Schwarz	FSU43	SEM004-08	2019/3/2	2020/3/1
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017/6/27	2020/6/26
Horn Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/413	2021/412
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017/10/17	2020/10/16
Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2018/9/2	2019/9/2
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2018/9/2	2019/9/2
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	EMC2063	2018/10/20	2019/10/19
Pre-amplifier (26-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019/3/2	2020/3/1
Band filter	N/A	N/A	N/A	N/A	N/A
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2018/7/12	2019/7/11
Wideband Radio CommunicationTeste	Anristu	MT8821C	6201462742	2019/4/3	2020/4/3
Wideband Radio CommunicationTester	Rohde & Schwarz	CMW500	W005-02	2019/1/13	2020/1/12

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
Dual Output Mobile Communication DC Source	Agilent Technologies Inc	66311B	W009-09	2018/11/2	2019/11/1
Signal Analyzer	Rohde & Schwarz	FSV	W005-02	2019/3/2	2020/3/1
Coaxial Cable	SGS	N/A	SEM031-01	2018/7/12	2019/7/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018/11/2	2019/11/1
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	W006-17	2018/11/2	2019/11/1
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2018/11/2	2019/11/1
Wideband Radio CommunicationTeste	Anristu	MT8821C	6201462742	2019/3/2	2020/3/1
Wideband Radio CommunicationTester	Rohde & Schwarz	CMW500	W005-02	2018/11/2	2019/11/1

2. Measurement Uncertainty

For a 95% confidence level (k = 2), the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 as following:

Test Item	Extended Uncertainty	Data
Transmit Output Power Data	Power [dBm]	U =±0.37 dB
Bandwidth	Magnitude [%]	U =± 0.2%
Band Edge Compliance	Disturbance Power [dBm]	U = ±2.0 dB
Spurious Emissions, Conducted	Disturbance Power [dBm]	U = ±2.0 dB
Frequency Stability	Frequency Accuracy [ppm]	U = ±0.24 ppm

3. Effective (Isotropic) Radiated Power

3.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band66	1.4MHz	QPSK	131979	1RB#0	23.31	27.31	30.00	PASS
Band66	1.4MHz	QPSK	131979	1RB#2	23.50	27.50	30.00	PASS
Band66	1.4MHz	QPSK	131979	1RB#5	23.42	27.42	30.00	PASS
Band66	1.4MHz	QPSK	131979	3RB#0	23.32	27.32	30.00	PASS
Band66	1.4MHz	QPSK	131979	3RB#1	23.30	27.30	30.00	PASS
Band66	1.4MHz	QPSK	131979	3RB#3	23.38	27.38	30.00	PASS
Band66	1.4MHz	QPSK	131979	6RB#0	22.26	26.26	30.00	PASS
Band66	1.4MHz	QPSK	132322	1RB#0	23.18	27.18	30.00	PASS
Band66	1.4MHz	QPSK	132322	1RB#2	23.32	27.32	30.00	PASS
Band66	1.4MHz	QPSK	132322	1RB#5	23.23	27.23	30.00	PASS
Band66	1.4MHz	QPSK	132322	3RB#0	23.08	27.08	30.00	PASS
Band66	1.4MHz	QPSK	132322	3RB#1	23.12	27.12	30.00	PASS
Band66	1.4MHz	QPSK	132322	3RB#3	23.07	27.07	30.00	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	22.09	26.09	30.00	PASS
Band66	1.4MHz	QPSK	132665	1RB#0	23.14	27.14	30.00	PASS
Band66	1.4MHz	QPSK	132665	1RB#2	23.26	27.26	30.00	PASS
Band66	1.4MHz	QPSK	132665	1RB#5	23.22	27.22	30.00	PASS
Band66	1.4MHz	QPSK	132665	3RB#0	23.12	27.12	30.00	PASS
Band66	1.4MHz	QPSK	132665	3RB#1	23.07	27.07	30.00	PASS
Band66	1.4MHz	QPSK	132665	3RB#3	23.05	27.05	30.00	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	22.04	26.04	30.00	PASS
Band66	1.4MHz	16QAM	131979	1RB#0	22.40	26.40	30.00	PASS
Band66	1.4MHz	16QAM	131979	1RB#2	22.32	26.32	30.00	PASS
Band66	1.4MHz	16QAM	131979	1RB#5	22.30	26.30	30.00	PASS
Band66	1.4MHz	16QAM	131979	3RB#0	22.31	26.31	30.00	PASS
Band66	1.4MHz	16QAM	131979	3RB#1	22.45	26.45	30.00	PASS
Band66	1.4MHz	16QAM	131979	3RB#3	22.36	26.36	30.00	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	21.32	25.32	30.00	PASS
Band66	1.4MHz	16QAM	132322	1RB#0	22.23	26.23	30.00	PASS
Band66	1.4MHz	16QAM	132322	1RB#2	22.21	26.21	30.00	PASS
Band66	1.4MHz	16QAM	132322	1RB#5	22.12	26.12	30.00	PASS
Band66	1.4MHz	16QAM	132322	3RB#0	22.24	26.24	30.00	PASS
Band66	1.4MHz	16QAM	132322	3RB#1	22.25	26.25	30.00	PASS
Band66	1.4MHz	16QAM	132322	3RB#3	22.18	26.18	30.00	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	21.15	25.15	30.00	PASS
Band66	1.4MHz	16QAM	132665	1RB#0	22.17	26.17	30.00	PASS
Band66	1.4MHz	16QAM	132665	1RB#2	22.21	26.21	30.00	PASS

Band66	1.4MHz	16QAM	132665	1RB#5	22.14	26.14	30.00	PASS
Band66	1.4MHz	16QAM	132665	3RB#0	22.23	26.23	30.00	PASS
Band66	1.4MHz	16QAM	132665	3RB#1	22.16	26.16	30.00	PASS
Band66	1.4MHz	16QAM	132665	3RB#3	22.07	26.07	30.00	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	21.07	25.07	30.00	PASS
Band66	3MHz	QPSK	131987	1RB#0	23.35	27.35	30.00	PASS
Band66	3MHz	QPSK	131987	1RB#8	23.38	27.38	30.00	PASS
Band66	3MHz	QPSK	131987	1RB#14	23.35	27.35	30.00	PASS
Band66	3MHz	QPSK	131987	8RB#0	22.24	26.24	30.00	PASS
Band66	3MHz	QPSK	131987	8RB#4	22.31	26.31	30.00	PASS
Band66	3MHz	QPSK	131987	8RB#7	22.17	26.17	30.00	PASS
Band66	3MHz	QPSK	131987	15RB#0	22.20	26.20	30.00	PASS
Band66	3MHz	QPSK	132322	1RB#0	23.28	27.28	30.00	PASS
Band66	3MHz	QPSK	132322	1RB#8	23.24	27.24	30.00	PASS
Band66	3MHz	QPSK	132322	1RB#14	23.12	27.12	30.00	PASS
Band66	3MHz	QPSK	132322	8RB#0	22.13	26.13	30.00	PASS
Band66	3MHz	QPSK	132322	8RB#4	22.16	26.16	30.00	PASS
Band66	3MHz	QPSK	132322	8RB#7	22.04	26.04	30.00	PASS
Band66	3MHz	QPSK	132322	15RB#0	22.06	26.06	30.00	PASS
Band66	3MHz	QPSK	132657	1RB#0	23.03	27.03	30.00	PASS
Band66	3MHz	QPSK	132657	1RB#8	23.14	27.14	30.00	PASS
Band66	3MHz	QPSK	132657	1RB#14	23.06	27.06	30.00	PASS
Band66	3MHz	QPSK	132657	8RB#0	22.07	26.07	30.00	PASS
Band66	3MHz	QPSK	132657	8RB#4	22.04	26.04	30.00	PASS
Band66	3MHz	QPSK	132657	8RB#7	22.03	26.03	30.00	PASS
Band66	3MHz	QPSK	132657	15RB#0	22.00	26.00	30.00	PASS
Band66	3MHz	16QAM	131987	1RB#0	22.36	26.36	30.00	PASS
Band66	3MHz	16QAM	131987	1RB#8	22.29	26.29	30.00	PASS
Band66	3MHz	16QAM	131987	1RB#14	22.17	26.17	30.00	PASS
Band66	3MHz	16QAM	131987	8RB#0	21.26	25.26	30.00	PASS
Band66	3MHz	16QAM	131987	8RB#4	21.34	25.34	30.00	PASS
Band66	3MHz	16QAM	131987	8RB#7	21.19	25.19	30.00	PASS
Band66	3MHz	16QAM	131987	15RB#0	21.13	25.13	30.00	PASS
Band66	3MHz	16QAM	132322	1RB#0	22.18	26.18	30.00	PASS
Band66	3MHz	16QAM	132322	1RB#8	22.14	26.14	30.00	PASS
Band66	3MHz	16QAM	132322	1RB#14	22.10	26.10	30.00	PASS
Band66	3MHz	16QAM	132322	8RB#0	21.18	25.18	30.00	PASS
Band66	3MHz	16QAM	132322	8RB#4	21.20	25.20	30.00	PASS
Band66	3MHz	16QAM	132322	8RB#7	21.17	25.17	30.00	PASS
Band66	3MHz	16QAM	132322	15RB#0	21.16	25.16	30.00	PASS
Band66	3MHz	16QAM	132657	1RB#0	22.30	26.30	30.00	PASS
Band66	3MHz	16QAM	132657	1RB#8	22.22	26.22	30.00	PASS
Band66	3MHz	16QAM	132657	1RB#14	22.23	26.23	30.00	PASS
Band66	3MHz	16QAM	132657	8RB#0	21.12	25.12	30.00	PASS

Band66	3MHz	16QAM	132657	8RB#4	21.08	25.08	30.00	PASS
Band66	3MHz	16QAM	132657	8RB#7	21.10	25.10	30.00	PASS
Band66	3MHz	16QAM	132657	15RB#0	21.11	25.11	30.00	PASS
Band66	5MHz	QPSK	131997	1RB#0	23.17	27.17	30.00	PASS
Band66	5MHz	QPSK	131997	1RB#12	23.56	27.56	30.00	PASS
Band66	5MHz	QPSK	131997	1RB#24	23.23	27.23	30.00	PASS
Band66	5MHz	QPSK	131997	12RB#0	22.31	26.31	30.00	PASS
Band66	5MHz	QPSK	131997	12RB#6	22.26	26.26	30.00	PASS
Band66	5MHz	QPSK	131997	12RB#13	22.24	26.24	30.00	PASS
Band66	5MHz	QPSK	131997	25RB#0	22.23	26.23	30.00	PASS
Band66	5MHz	QPSK	132322	1RB#0	23.22	27.22	30.00	PASS
Band66	5MHz	QPSK	132322	1RB#12	23.28	27.28	30.00	PASS
Band66	5MHz	QPSK	132322	1RB#24	22.89	26.89	30.00	PASS
Band66	5MHz	QPSK	132322	12RB#0	22.19	26.19	30.00	PASS
Band66	5MHz	QPSK	132322	12RB#6	22.15	26.15	30.00	PASS
Band66	5MHz	QPSK	132322	12RB#13	22.08	26.08	30.00	PASS
Band66	5MHz	QPSK	132322	25RB#0	22.11	26.11	30.00	PASS
Band66	5MHz	QPSK	132647	1RB#0	23.17	27.17	30.00	PASS
Band66	5MHz	QPSK	132647	1RB#12	23.31	27.31	30.00	PASS
Band66	5MHz	QPSK	132647	1RB#24	22.71	26.71	30.00	PASS
Band66	5MHz	QPSK	132647	12RB#0	22.10	26.10	30.00	PASS
Band66	5MHz	QPSK	132647	12RB#6	22.13	26.13	30.00	PASS
Band66	5MHz	QPSK	132647	12RB#13	22.03	26.03	30.00	PASS
Band66	5MHz	QPSK	132647	25RB#0	22.04	26.04	30.00	PASS
Band66	5MHz	16QAM	131997	1RB#0	22.54	26.54	30.00	PASS
Band66	5MHz	16QAM	131997	1RB#12	22.56	26.56	30.00	PASS
Band66	5MHz	16QAM	131997	1RB#24	22.43	26.43	30.00	PASS
Band66	5MHz	16QAM	131997	12RB#0	21.32	25.32	30.00	PASS
Band66	5MHz	16QAM	131997	12RB#6	21.27	25.27	30.00	PASS
Band66	5MHz	16QAM	131997	12RB#13	21.20	25.20	30.00	PASS
Band66	5MHz	16QAM	131997	25RB#0	21.14	25.14	30.00	PASS
Band66	5MHz	16QAM	132322	1RB#0	22.35	26.35	30.00	PASS
Band66	5MHz	16QAM	132322	1RB#12	22.41	26.41	30.00	PASS
Band66	5MHz	16QAM	132322	1RB#24	22.34	26.34	30.00	PASS
Band66	5MHz	16QAM	132322	12RB#0	21.32	25.32	30.00	PASS
Band66	5MHz	16QAM	132322	12RB#6	21.20	25.20	30.00	PASS
Band66	5MHz	16QAM	132322	12RB#13	21.21	25.21	30.00	PASS
Band66	5MHz	16QAM	132322	25RB#0	21.17	25.17	30.00	PASS
Band66	5MHz	16QAM	132647	1RB#0	22.50	26.50	30.00	PASS
Band66	5MHz	16QAM	132647	1RB#12	22.55	26.55	30.00	PASS
Band66	5MHz	16QAM	132647	1RB#24	22.26	26.26	30.00	PASS
Band66	5MHz	16QAM	132647	12RB#0	21.19	25.19	30.00	PASS
Band66	5MHz	16QAM	132647	12RB#6	21.08	25.08	30.00	PASS
Band66	5MHz	16QAM	132647	12RB#13	21.10	25.10	30.00	PASS

Band66	5MHz	16QAM	132647	25RB#0	21.05	25.05	30.00	PASS
Band66	10MHz	QPSK	132022	1RB#0	22.58	26.58	30.00	PASS
Band66	10MHz	QPSK	132022	1RB#24	23.61	27.61	30.00	PASS
Band66	10MHz	QPSK	132022	1RB#49	23.11	27.11	30.00	PASS
Band66	10MHz	QPSK	132022	25RB#0	22.22	26.22	30.00	PASS
Band66	10MHz	QPSK	132022	25RB#12	22.61	26.61	30.00	PASS
Band66	10MHz	QPSK	132022	25RB#25	22.06	26.06	30.00	PASS
Band66	10MHz	QPSK	132022	50RB#0	22.16	26.16	30.00	PASS
Band66	10MHz	QPSK	132322	1RB#0	22.62	26.62	30.00	PASS
Band66	10MHz	QPSK	132322	1RB#24	23.10	27.10	30.00	PASS
Band66	10MHz	QPSK	132322	1RB#49	22.64	26.64	30.00	PASS
Band66	10MHz	QPSK	132322	25RB#0	22.24	26.24	30.00	PASS
Band66	10MHz	QPSK	132322	25RB#12	22.20	26.20	30.00	PASS
Band66	10MHz	QPSK	132322	25RB#25	22.16	26.16	30.00	PASS
Band66	10MHz	QPSK	132322	50RB#0	22.16	26.16	30.00	PASS
Band66	10MHz	QPSK	132622	1RB#0	22.62	26.62	30.00	PASS
Band66	10MHz	QPSK	132622	1RB#24	22.94	26.94	30.00	PASS
Band66	10MHz	QPSK	132622	1RB#49	22.67	26.67	30.00	PASS
Band66	10MHz	QPSK	132622	25RB#0	22.26	26.26	30.00	PASS
Band66	10MHz	QPSK	132622	25RB#12	22.12	26.12	30.00	PASS
Band66	10MHz	QPSK	132622	25RB#25	22.06	26.06	30.00	PASS
Band66	10MHz	QPSK	132622	50RB#0	22.16	26.16	30.00	PASS
Band66	10MHz	16QAM	132022	1RB#0	22.02	26.02	30.00	PASS
Band66	10MHz	16QAM	132022	1RB#24	22.83	26.83	30.00	PASS
Band66	10MHz	16QAM	132022	1RB#49	22.95	26.95	30.00	PASS
Band66	10MHz	16QAM	132022	25RB#0	21.13	25.13	30.00	PASS
Band66	10MHz	16QAM	132022	25RB#12	21.13	25.13	30.00	PASS
Band66	10MHz	16QAM	132022	25RB#25	21.28	25.28	30.00	PASS
Band66	10MHz	16QAM	132022	50RB#0	21.25	25.25	30.00	PASS
Band66	10MHz	16QAM	132322	1RB#0	21.95	25.95	30.00	PASS
Band66	10MHz	16QAM	132322	1RB#24	22.44	26.44	30.00	PASS
Band66	10MHz	16QAM	132322	1RB#49	22.97	26.97	30.00	PASS
Band66	10MHz	16QAM	132322	25RB#0	21.07	25.07	30.00	PASS
Band66	10MHz	16QAM	132322	25RB#12	21.19	25.19	30.00	PASS
Band66	10MHz	16QAM	132322	25RB#25	21.13	25.13	30.00	PASS
Band66	10MHz	16QAM	132322	50RB#0	21.14	25.14	30.00	PASS
Band66	10MHz	16QAM	132622	1RB#0	21.77	25.77	30.00	PASS
Band66	10MHz	16QAM	132622	1RB#24	22.27	26.27	30.00	PASS
Band66	10MHz	16QAM	132622	1RB#49	22.94	26.94	30.00	PASS
Band66	10MHz	16QAM	132622	25RB#0	21.06	25.06	30.00	PASS
Band66	10MHz	16QAM	132622	25RB#12	21.16	25.16	30.00	PASS
Band66	10MHz	16QAM	132622	25RB#25	21.26	25.26	30.00	PASS
Band66	10MHz	16QAM	132622	50RB#0	21.18	25.18	30.00	PASS
Band66	15MHz	QPSK	132047	1RB#0	23.69	27.69	30.00	PASS

Band66	15MHz	QPSK	132047	1RB#38	24.16	28.16	30.00	PASS
Band66	15MHz	QPSK	132047	1RB#74	22.60	26.60	30.00	PASS
Band66	15MHz	QPSK	132047	36RB#0	22.53	26.53	30.00	PASS
Band66	15MHz	QPSK	132047	36RB#18	22.26	26.26	30.00	PASS
Band66	15MHz	QPSK	132047	36RB#39	22.20	26.20	30.00	PASS
Band66	15MHz	QPSK	132047	75RB#0	22.17	26.17	30.00	PASS
Band66	15MHz	QPSK	132322	1RB#0	23.45	27.45	30.00	PASS
Band66	15MHz	QPSK	132322	1RB#38	23.48	27.48	30.00	PASS
Band66	15MHz	QPSK	132322	1RB#74	23.19	27.19	30.00	PASS
Band66	15MHz	QPSK	132322	36RB#0	22.25	26.25	30.00	PASS
Band66	15MHz	QPSK	132322	36RB#18	22.30	26.30	30.00	PASS
Band66	15MHz	QPSK	132322	36RB#39	22.13	26.13	30.00	PASS
Band66	15MHz	QPSK	132322	75RB#0	22.20	26.20	30.00	PASS
Band66	15MHz	QPSK	132597	1RB#0	23.54	27.54	30.00	PASS
Band66	15MHz	QPSK	132597	1RB#38	23.23	27.23	30.00	PASS
Band66	15MHz	QPSK	132597	1RB#74	22.73	26.73	30.00	PASS
Band66	15MHz	QPSK	132597	36RB#0	22.39	26.39	30.00	PASS
Band66	15MHz	QPSK	132597	36RB#18	22.22	26.22	30.00	PASS
Band66	15MHz	QPSK	132597	36RB#39	22.14	26.14	30.00	PASS
Band66	15MHz	QPSK	132597	75RB#0	22.24	26.24	30.00	PASS
Band66	15MHz	16QAM	132047	1RB#0	22.69	26.69	30.00	PASS
Band66	15MHz	16QAM	132047	1RB#38	22.29	26.29	30.00	PASS
Band66	15MHz	16QAM	132047	1RB#74	22.46	26.46	30.00	PASS
Band66	15MHz	16QAM	132047	36RB#0	21.38	25.38	30.00	PASS
Band66	15MHz	16QAM	132047	36RB#18	21.27	25.27	30.00	PASS
Band66	15MHz	16QAM	132047	36RB#39	21.14	25.14	30.00	PASS
Band66	15MHz	16QAM	132047	75RB#0	21.45	25.45	30.00	PASS
Band66	15MHz	16QAM	132322	1RB#0	22.48	26.48	30.00	PASS
Band66	15MHz	16QAM	132322	1RB#38	22.29	26.29	30.00	PASS
Band66	15MHz	16QAM	132322	1RB#74	22.43	26.43	30.00	PASS
Band66	15MHz	16QAM	132322	36RB#0	21.28	25.28	30.00	PASS
Band66	15MHz	16QAM	132322	36RB#18	21.23	25.23	30.00	PASS
Band66	15MHz	16QAM	132322	36RB#39	21.12	25.12	30.00	PASS
Band66	15MHz	16QAM	132322	75RB#0	21.28	25.28	30.00	PASS
Band66	15MHz	16QAM	132597	1RB#0	22.60	26.60	30.00	PASS
Band66	15MHz	16QAM	132597	1RB#38	22.26	26.26	30.00	PASS
Band66	15MHz	16QAM	132597	1RB#74	22.54	26.54	30.00	PASS
Band66	15MHz	16QAM	132597	36RB#0	21.33	25.33	30.00	PASS
Band66	15MHz	16QAM	132597	36RB#18	21.16	25.16	30.00	PASS
Band66	15MHz	16QAM	132597	36RB#39	21.18	25.18	30.00	PASS
Band66	15MHz	16QAM	132597	75RB#0	21.26	25.26	30.00	PASS
Band66	20MHz	QPSK	132072	1RB#0	23.23	27.23	30.00	PASS
Band66	20MHz	QPSK	132072	1RB#49	23.83	27.83	30.00	PASS
Band66	20MHz	QPSK	132072	1RB#99	22.60	26.60	30.00	PASS

Band66	20MHz	QPSK	132072	50RB#0	22.52	26.52	30.00	PASS
Band66	20MHz	QPSK	132072	50RB#25	22.30	26.30	30.00	PASS
Band66	20MHz	QPSK	132072	50RB#50	21.89	25.89	30.00	PASS
Band66	20MHz	QPSK	132072	100RB#0	22.36	26.36	30.00	PASS
Band66	20MHz	QPSK	132322	1RB#0	23.31	27.31	30.00	PASS
Band66	20MHz	QPSK	132322	1RB#49	23.20	27.20	30.00	PASS
Band66	20MHz	QPSK	132322	1RB#99	22.97	26.97	30.00	PASS
Band66	20MHz	QPSK	132322	50RB#0	22.17	26.17	30.00	PASS
Band66	20MHz	QPSK	132322	50RB#25	22.24	26.24	30.00	PASS
Band66	20MHz	QPSK	132322	50RB#50	22.15	26.15	30.00	PASS
Band66	20MHz	QPSK	132322	100RB#0	22.22	26.22	30.00	PASS
Band66	20MHz	QPSK	132572	1RB#0	23.28	27.28	30.00	PASS
Band66	20MHz	QPSK	132572	1RB#49	22.95	26.95	30.00	PASS
Band66	20MHz	QPSK	132572	1RB#99	23.09	27.09	30.00	PASS
Band66	20MHz	QPSK	132572	50RB#0	22.22	26.22	30.00	PASS
Band66	20MHz	QPSK	132572	50RB#25	22.23	26.23	30.00	PASS
Band66	20MHz	QPSK	132572	50RB#50	22.12	26.12	30.00	PASS
Band66	20MHz	QPSK	132572	100RB#0	22.31	26.31	30.00	PASS
Band66	20MHz	16QAM	132072	1RB#0	22.23	26.23	30.00	PASS
Band66	20MHz	16QAM	132072	1RB#49	22.30	26.30	30.00	PASS
Band66	20MHz	16QAM	132072	1RB#99	22.70	26.70	30.00	PASS
Band66	20MHz	16QAM	132072	50RB#0	21.20	25.20	30.00	PASS
Band66	20MHz	16QAM	132072	50RB#25	21.38	25.38	30.00	PASS
Band66	20MHz	16QAM	132072	50RB#50	21.26	25.26	30.00	PASS
Band66	20MHz	16QAM	132072	100RB#0	21.27	25.27	30.00	PASS
Band66	20MHz	16QAM	132322	1RB#0	22.23	26.23	30.00	PASS
Band66	20MHz	16QAM	132322	1RB#49	22.34	26.34	30.00	PASS
Band66	20MHz	16QAM	132322	1RB#99	22.73	26.73	30.00	PASS
Band66	20MHz	16QAM	132322	50RB#0	21.18	25.18	30.00	PASS
Band66	20MHz	16QAM	132322	50RB#25	21.24	25.24	30.00	PASS
Band66	20MHz	16QAM	132322	50RB#50	21.21	25.21	30.00	PASS
Band66	20MHz	16QAM	132322	100RB#0	21.29	25.29	30.00	PASS
Band66	20MHz	16QAM	132572	1RB#0	22.09	26.09	30.00	PASS
Band66	20MHz	16QAM	132572	1RB#49	22.21	26.21	30.00	PASS
Band66	20MHz	16QAM	132572	1RB#99	22.77	26.77	30.00	PASS
Band66	20MHz	16QAM	132572	50RB#0	21.24	25.24	30.00	PASS
Band66	20MHz	16QAM	132572	50RB#25	21.33	25.33	30.00	PASS
Band66	20MHz	16QAM	132572	50RB#50	21.29	25.29	30.00	PASS
Band66	20MHz	16QAM	132572	100RB#0	21.32	25.32	30.00	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]

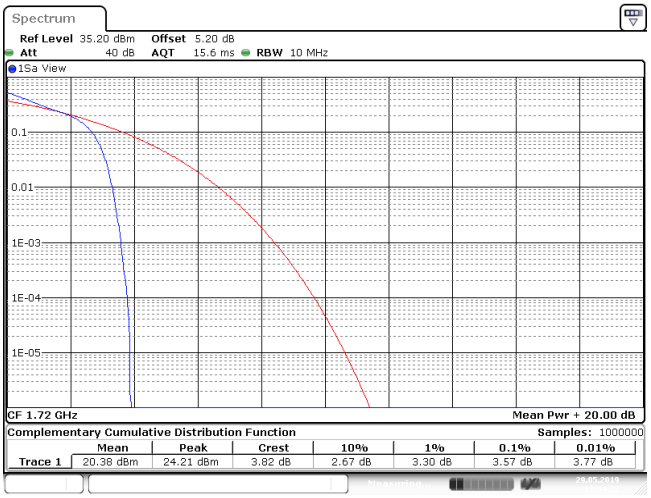
4. Peak-to-Average Ratio(CCDF)

4.1. Test Result

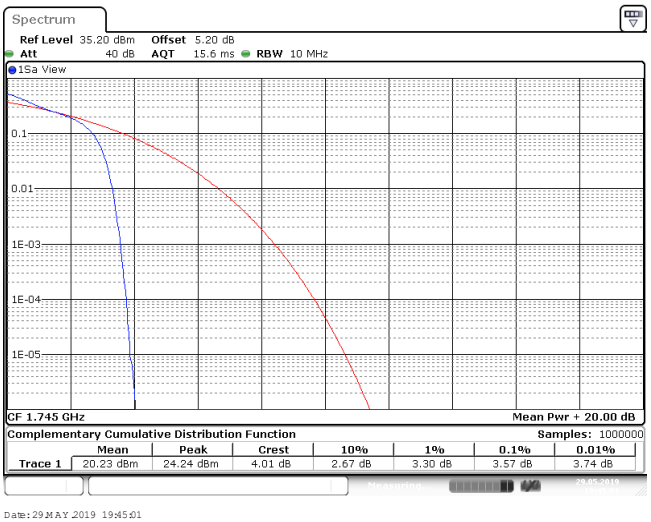
BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band66	20MHz	QPSK	132072	100RB#0	3.57	13	PASS
Band66	20MHz	QPSK	132322	100RB#0	3.57	13	PASS
Band66	20MHz	QPSK	132572	100RB#0	3.59	13	PASS
Band66	20MHz	16QAM	132072	100RB#0	5.28	13	PASS
Band66	20MHz	16QAM	132322	100RB#0	5.30	13	PASS
Band66	20MHz	16QAM	132572	100RB#0	5.33	13	PASS

4.2. Test Plots

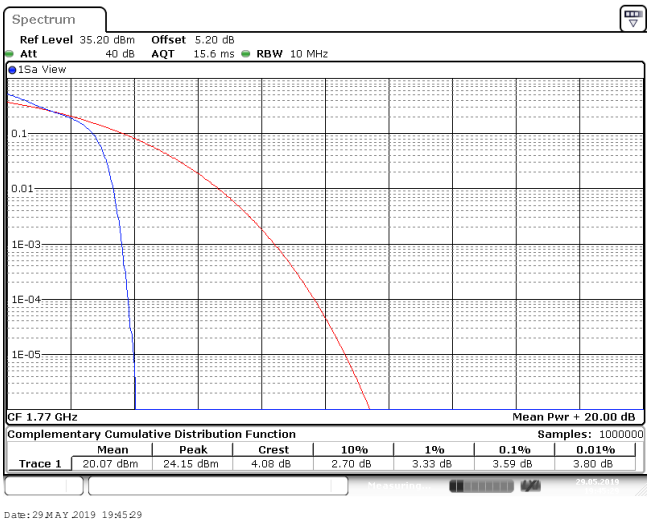
Band66_20MHz_QPSK_132072_100RB#0



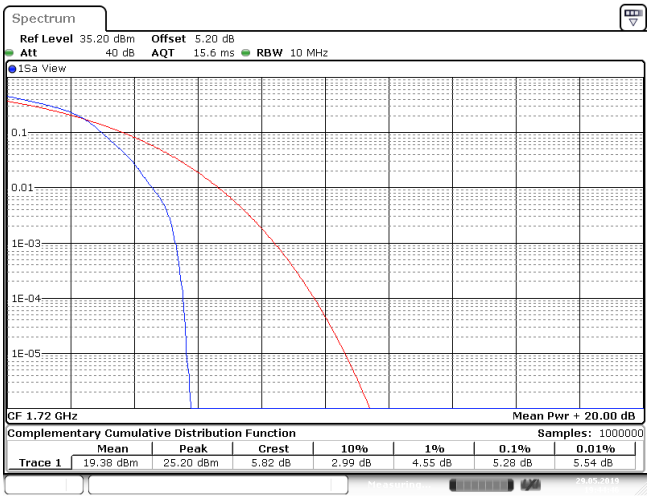
Band66_20MHz_QPSK_132322_100RB#0



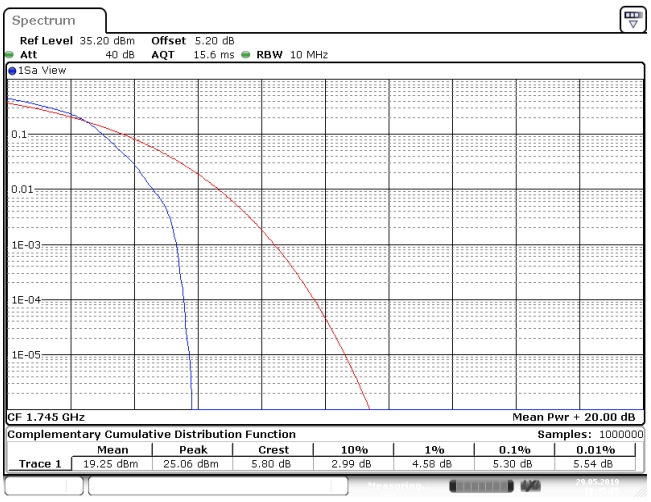
Band66_20MHz_QPSK_132572_100RB#0



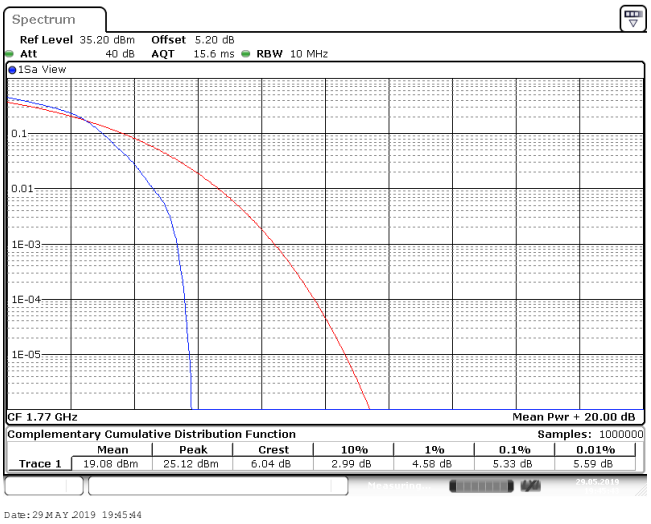
Band66_20MHz_16QAM_132072_100RB#0



Band66_20MHz_16QAM_132322_100RB#0



Band66_20MHz_16QAM_132572_100RB#0

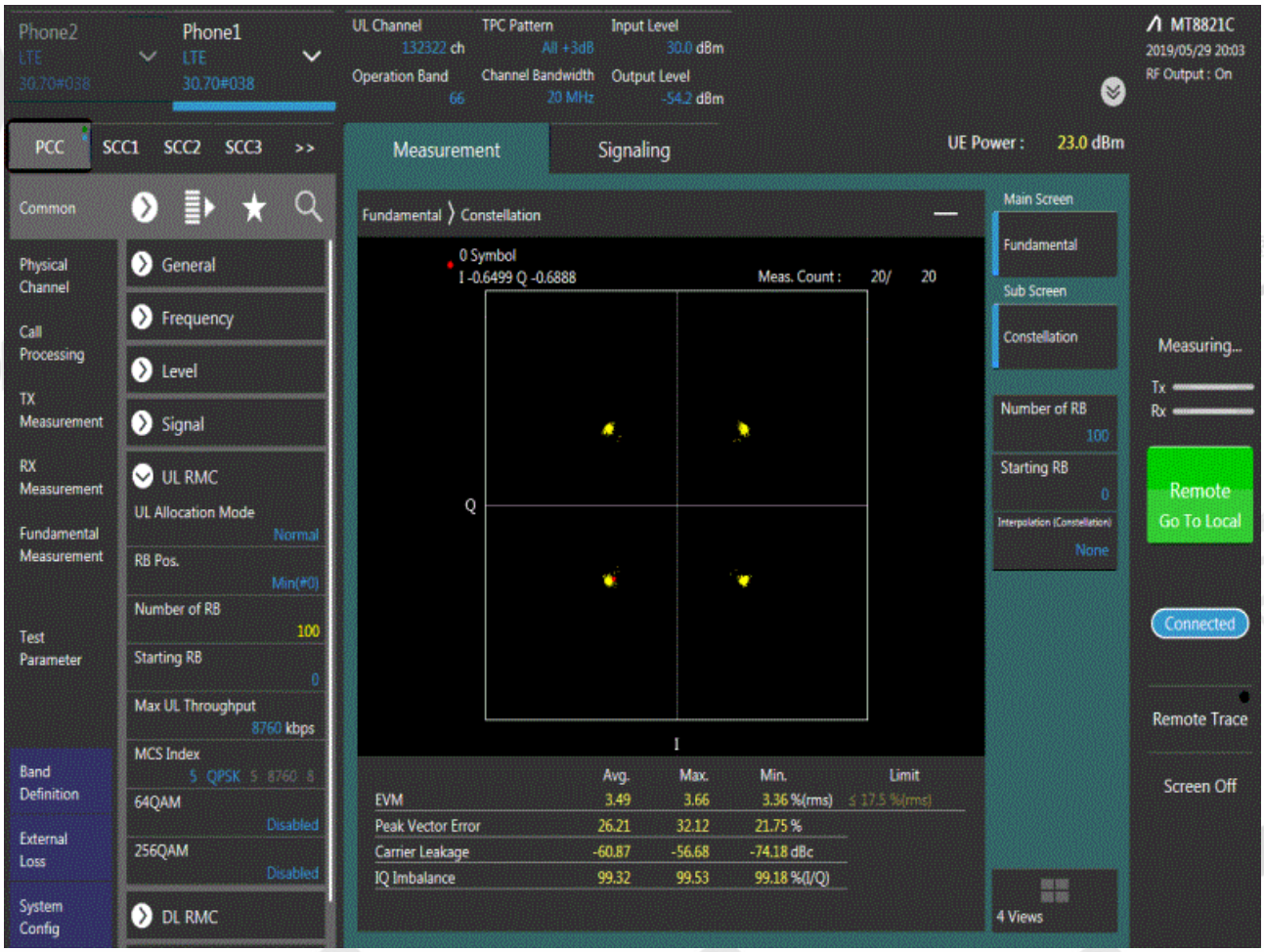


5. Modulation Characteristics

5.1. Test BAND = LTE Band 66

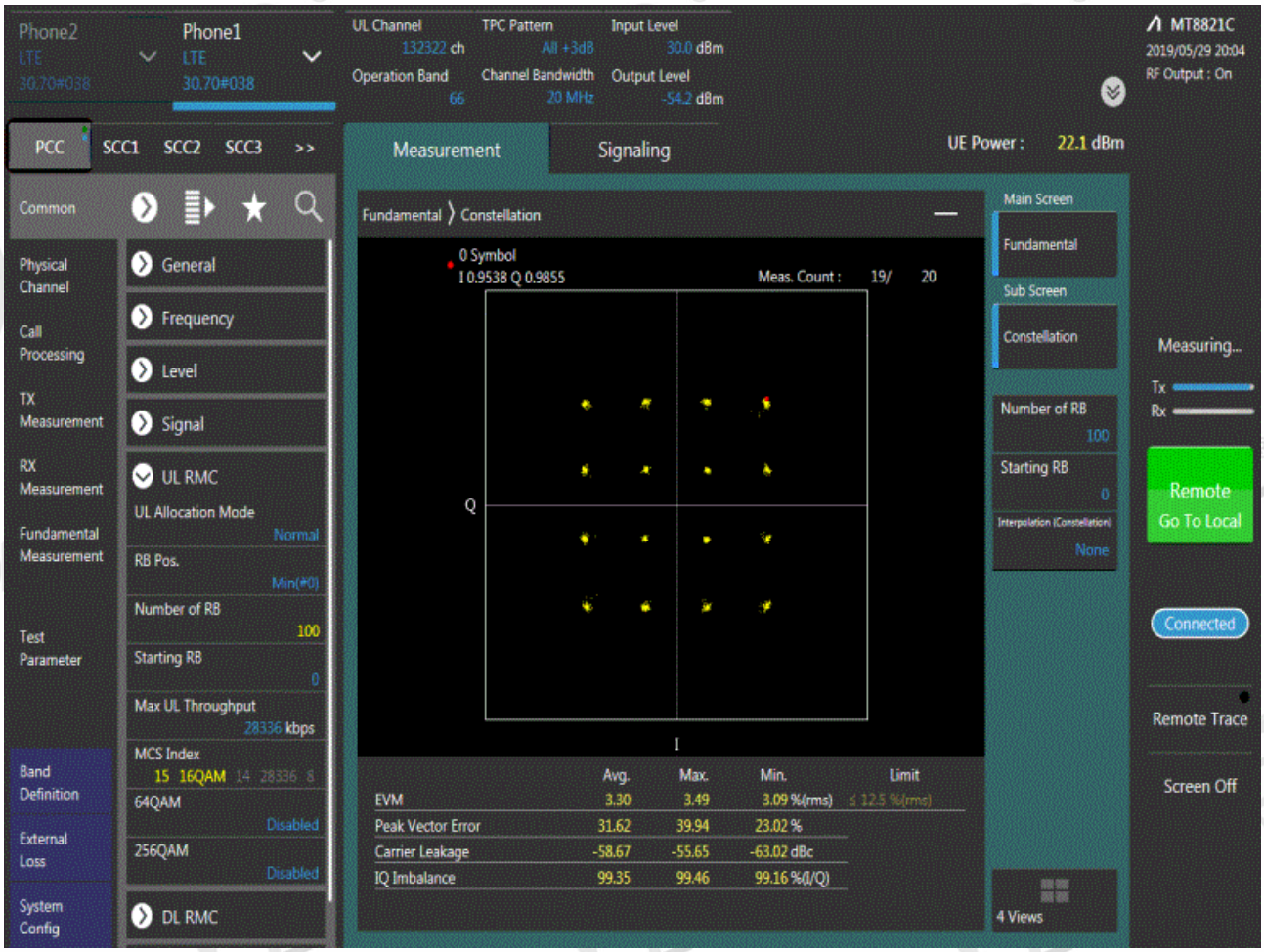
5.2. Test Mode = LTE /TM1 20MHz

5.2.1.Test Channel = MCH



5.3. Test Mode = LTE /TM2 20MHz

5.3.1.Test Channel = MCH



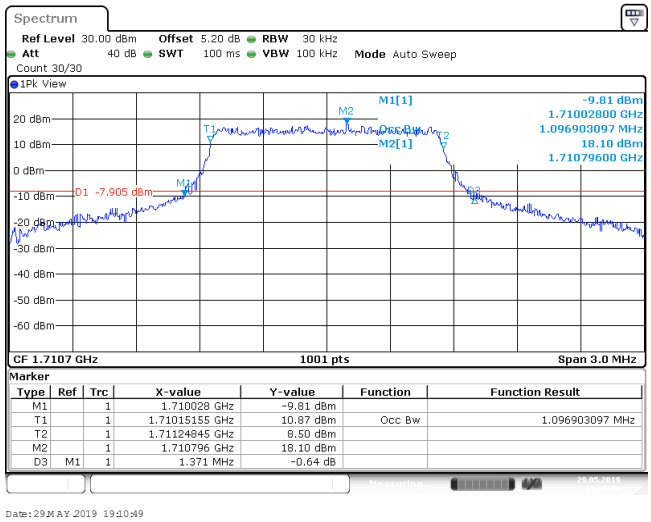
6. 26dB Bandwidth and Occupied Bandwidth

6.1. Test Result

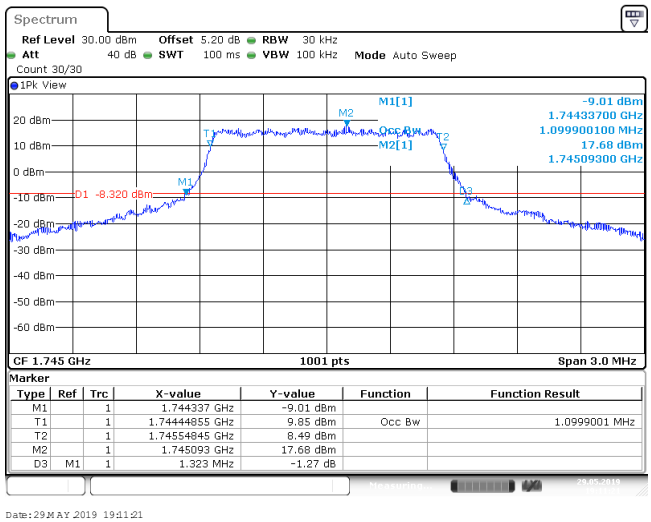
BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band66	1.4MHz	QPSK	131979	6RB#0	1.097	1.371	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	1.1	1.323	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	1.103	1.485	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	1.094	1.356	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	1.097	1.407	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	1.097	1.512	PASS
Band66	3MHz	QPSK	131987	15RB#0	2.697	2.994	PASS
Band66	3MHz	QPSK	132322	15RB#0	2.703	3.018	PASS
Band66	3MHz	QPSK	132657	15RB#0	2.703	3.042	PASS
Band66	3MHz	16QAM	131987	15RB#0	2.691	2.970	PASS
Band66	3MHz	16QAM	132322	15RB#0	2.685	2.982	PASS
Band66	3MHz	16QAM	132657	15RB#0	2.691	3.036	PASS
Band66	5MHz	QPSK	131997	25RB#0	4.466	4.960	PASS
Band66	5MHz	QPSK	132322	25RB#0	4.476	5.000	PASS
Band66	5MHz	QPSK	132647	25RB#0	4.476	5.020	PASS
Band66	5MHz	16QAM	131997	25RB#0	4.486	5.000	PASS
Band66	5MHz	16QAM	132322	25RB#0	4.496	4.990	PASS
Band66	5MHz	16QAM	132647	25RB#0	4.486	5.000	PASS
Band66	10MHz	QPSK	132022	50RB#0	8.911	9.760	PASS
Band66	10MHz	QPSK	132322	50RB#0	8.911	9.760	PASS
Band66	10MHz	QPSK	132622	50RB#0	8.911	9.740	PASS
Band66	10MHz	16QAM	132022	50RB#0	8.931	9.800	PASS
Band66	10MHz	16QAM	132322	50RB#0	8.931	9.840	PASS
Band66	10MHz	16QAM	132622	50RB#0	8.931	9.840	PASS
Band66	15MHz	QPSK	132047	75RB#0	13.457	14.760	PASS
Band66	15MHz	QPSK	132322	75RB#0	13.487	14.730	PASS
Band66	15MHz	QPSK	132597	75RB#0	13.427	14.760	PASS
Band66	15MHz	16QAM	132047	75RB#0	13.457	14.760	PASS
Band66	15MHz	16QAM	132322	75RB#0	13.457	14.790	PASS
Band66	15MHz	16QAM	132597	75RB#0	13.457	14.760	PASS
Band66	20MHz	QPSK	132072	100RB#0	17.862	19.480	PASS
Band66	20MHz	QPSK	132322	100RB#0	17.822	19.480	PASS
Band66	20MHz	QPSK	132572	100RB#0	17.862	19.520	PASS
Band66	20MHz	16QAM	132072	100RB#0	17.862	19.440	PASS
Band66	20MHz	16QAM	132322	100RB#0	17.862	19.440	PASS
Band66	20MHz	16QAM	132572	100RB#0	17.902	19.400	PASS

6.2. Test Plots

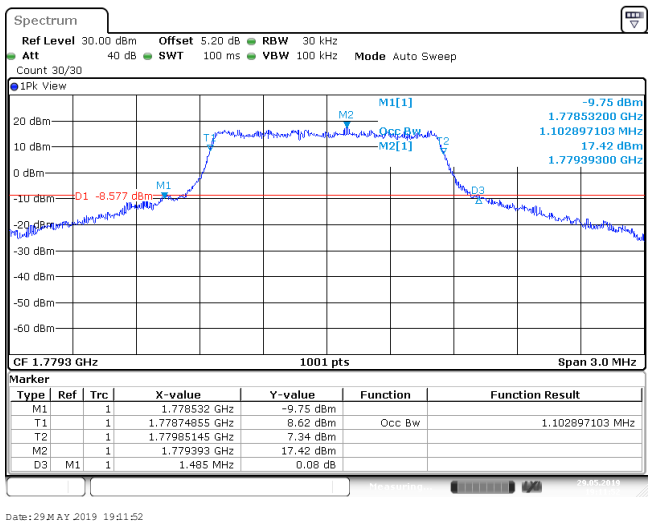
Band66_1.4MHz_QPSK_131979_6RB#0



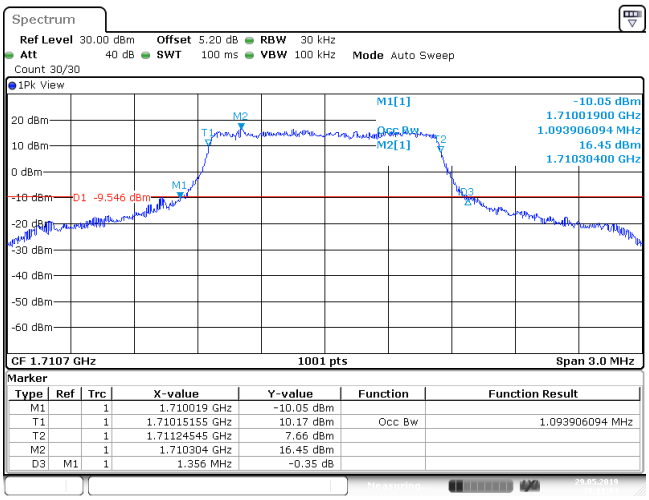
Band66_1.4MHz_QPSK_132322_6RB#0



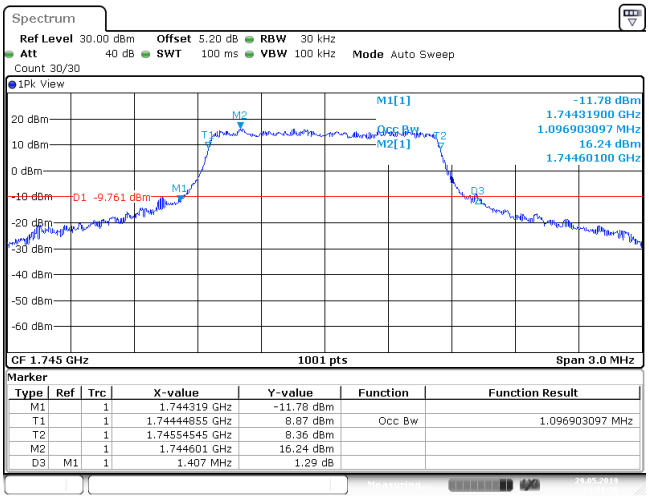
Band66_1.4MHz_QPSK_132665_6RB#0



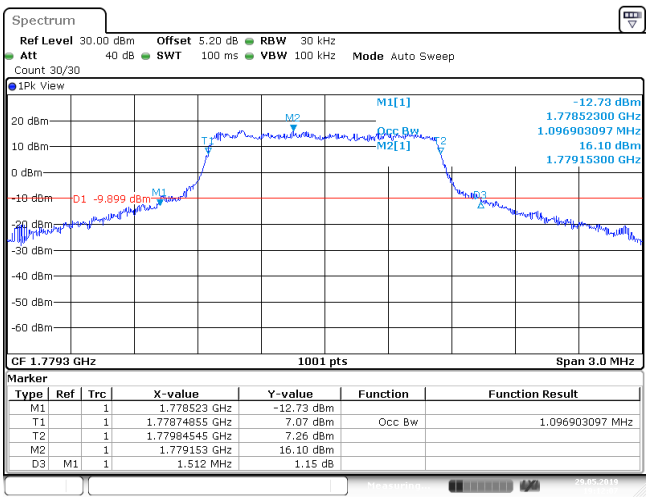
Band66_1.4MHz_16QAM_131979_6RB#0



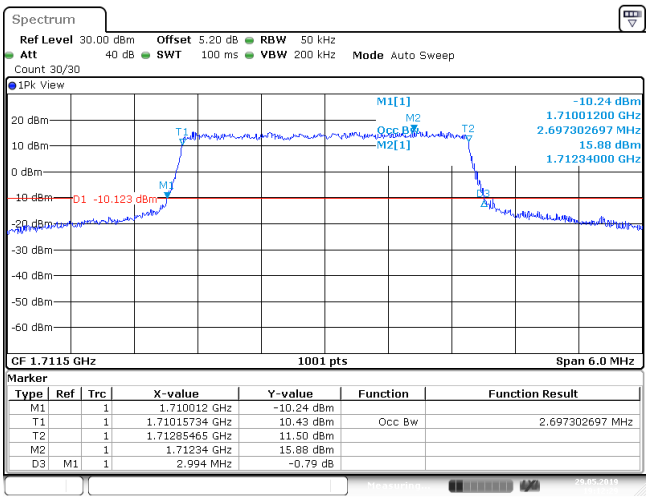
Band66_1.4MHz_16QAM_132322_6RB#0



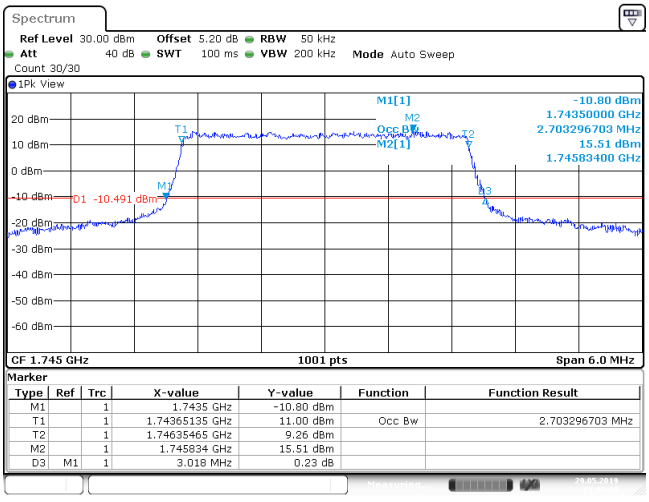
Band66_1.4MHz_16QAM_132665_6RB#0



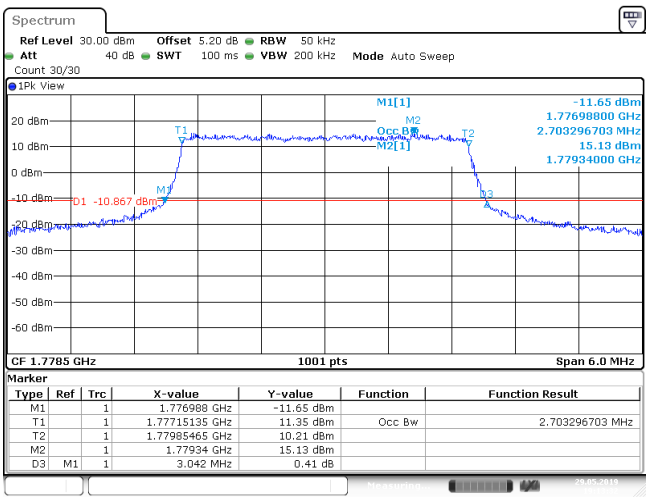
Band66_3MHz_QPSK_131987_15RB#0



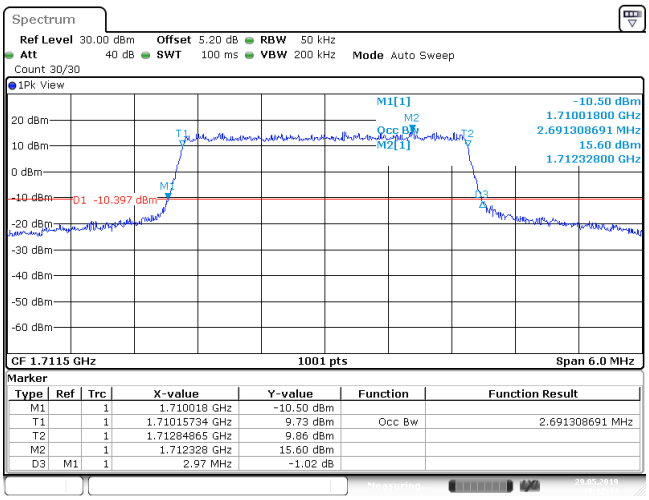
Band66_3MHz_QPSK_132322_15RB#0



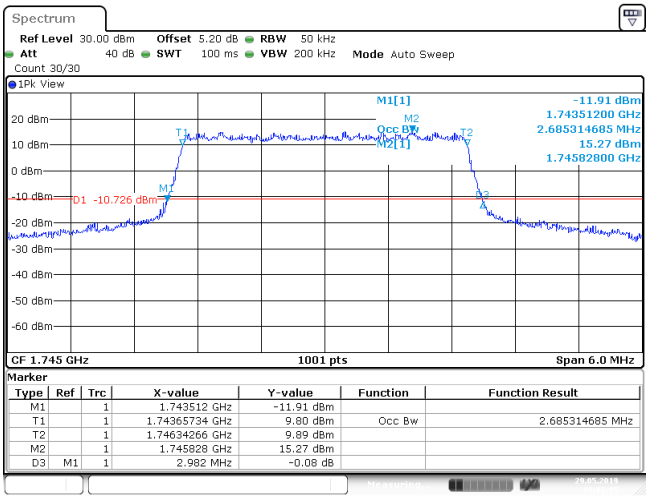
Band66_3MHz_QPSK_132657_15RB#0



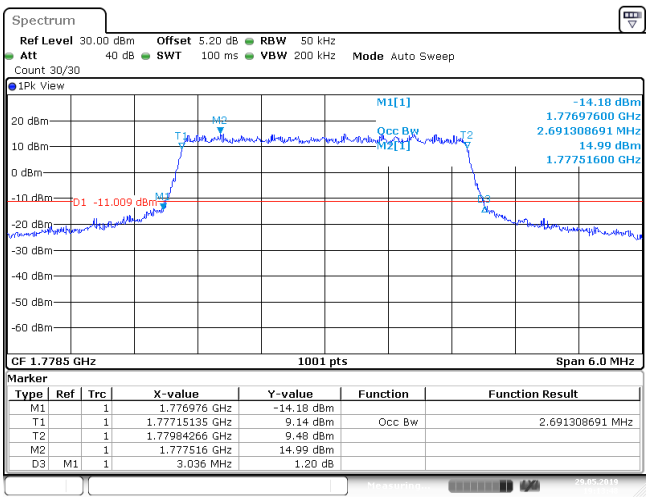
Band66_3MHz_16QAM_131987_15RB#0



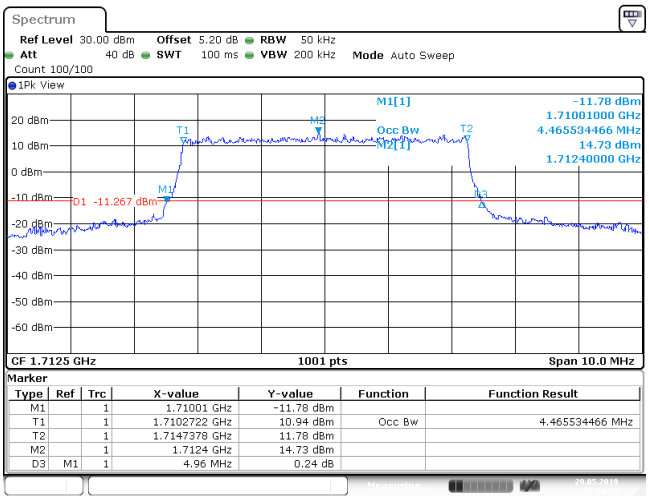
Band66_3MHz_16QAM_132322_15RB#0



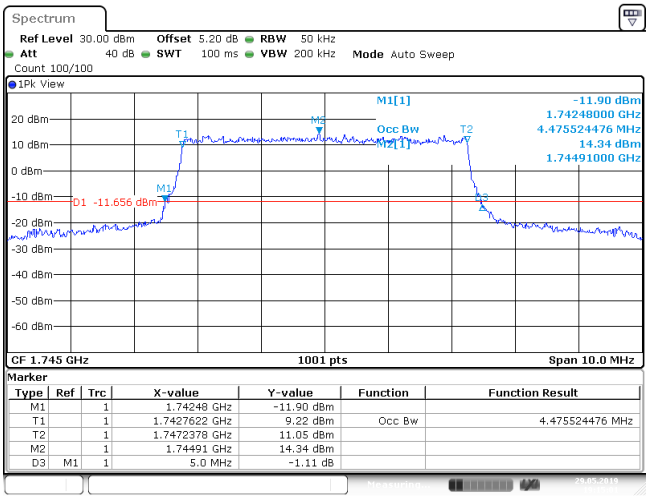
Band66_3MHz_16QAM_132657_15RB#0



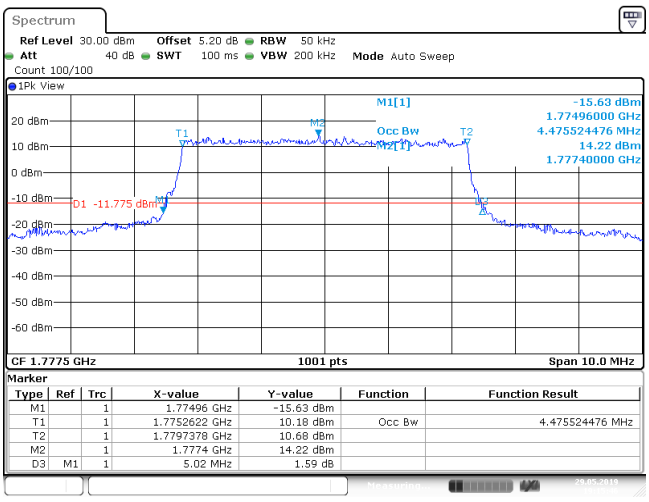
Band66_5MHz_QPSK_131997_25RB#0



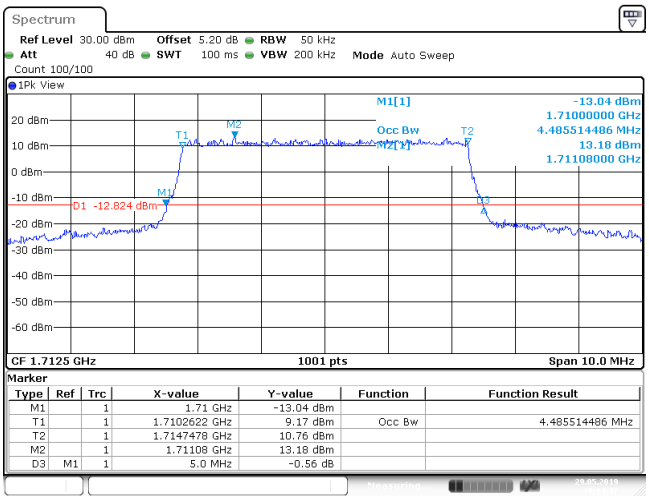
Band66_5MHz_QPSK_132322_25RB#0



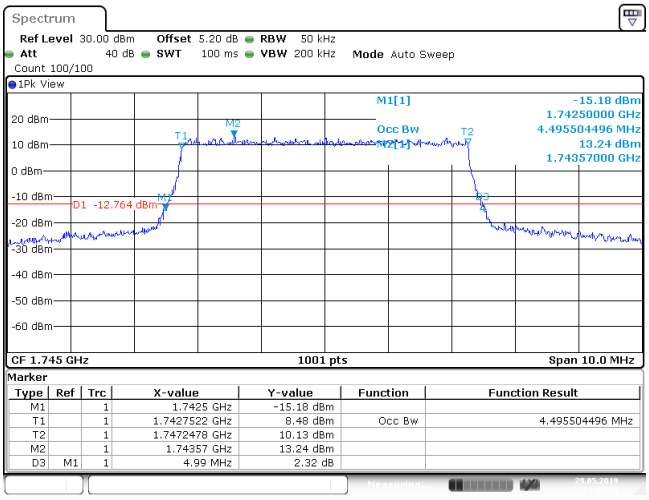
Band66_5MHz_QPSK_132647_25RB#0



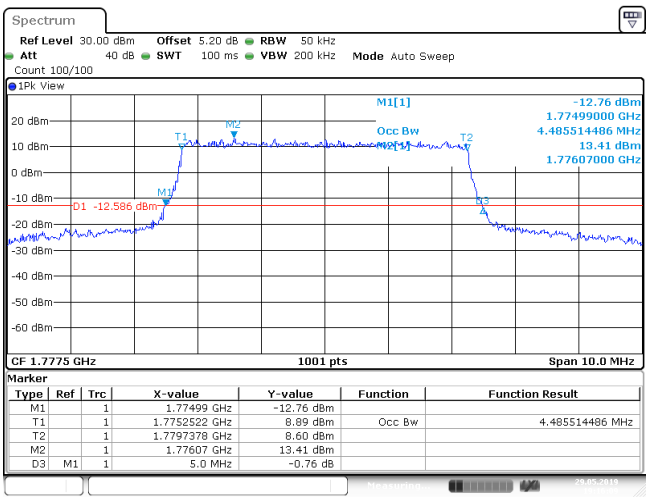
Band66_5MHz_16QAM_131997_25RB#0



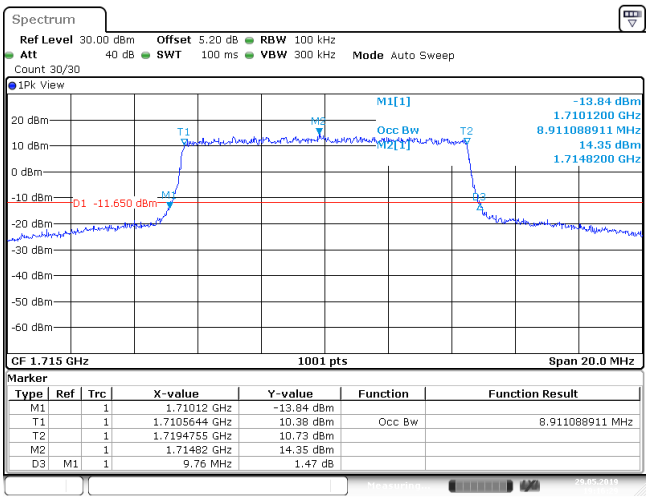
Band66_5MHz_16QAM_132322_25RB#0



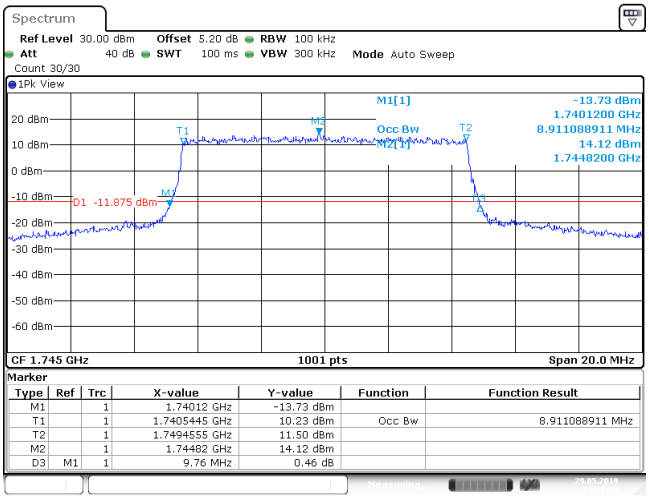
Band66_5MHz_16QAM_132647_25RB#0



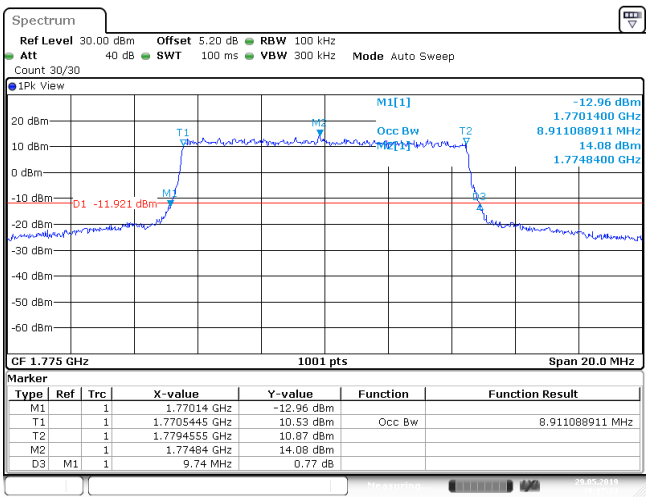
Band66_10MHz_QPSK_132022_50RB#0



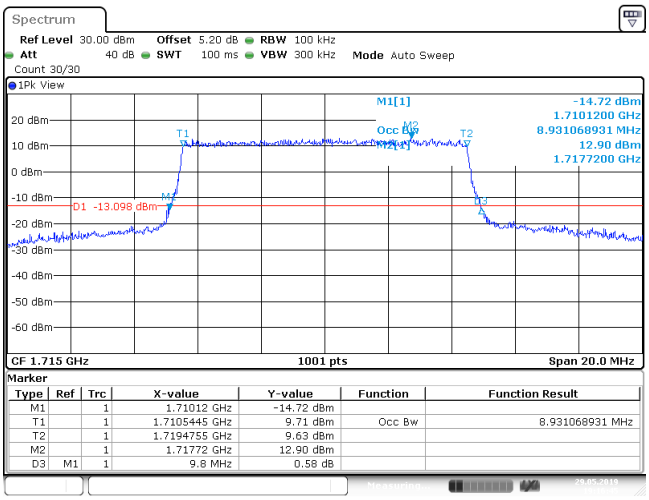
Band66_10MHz_QPSK_132322_50RB#0



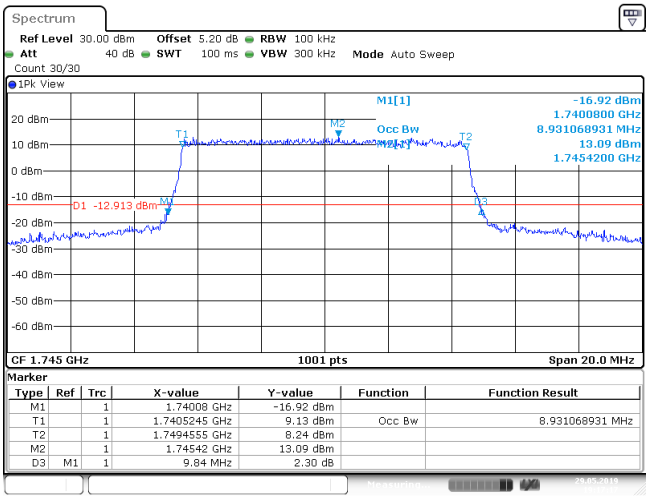
Band66_10MHz_QPSK_132622_50RB#0



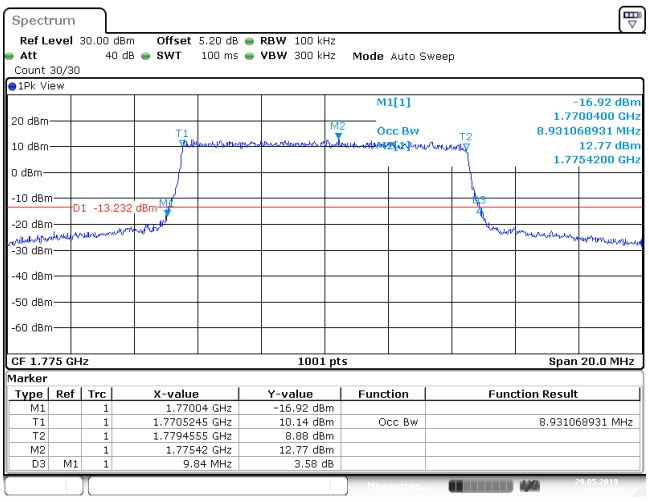
Band66_10MHz_16QAM_132022_50RB#0



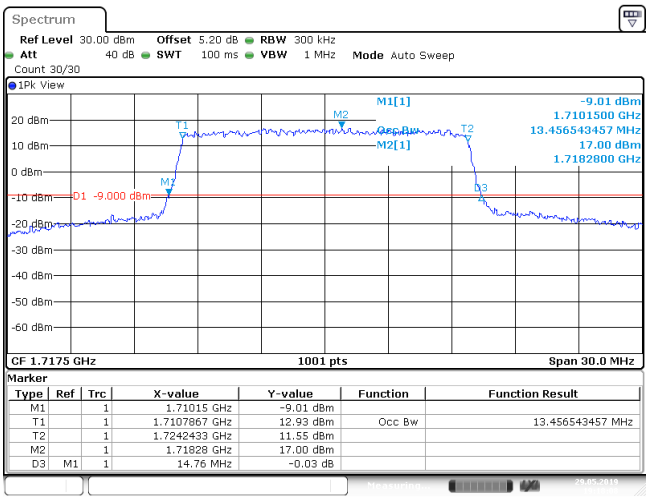
Band66_10MHz_16QAM_132322_50RB#0



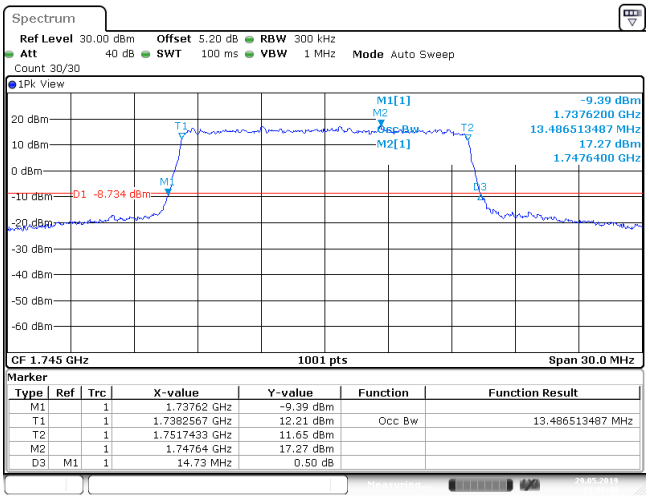
Band66_10MHz_16QAM_132622_50RB#0



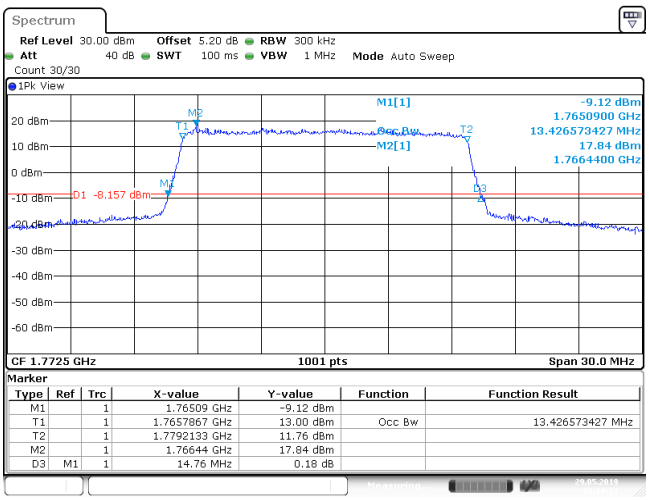
Band66_15MHz_QPSK_132047_75RB#0



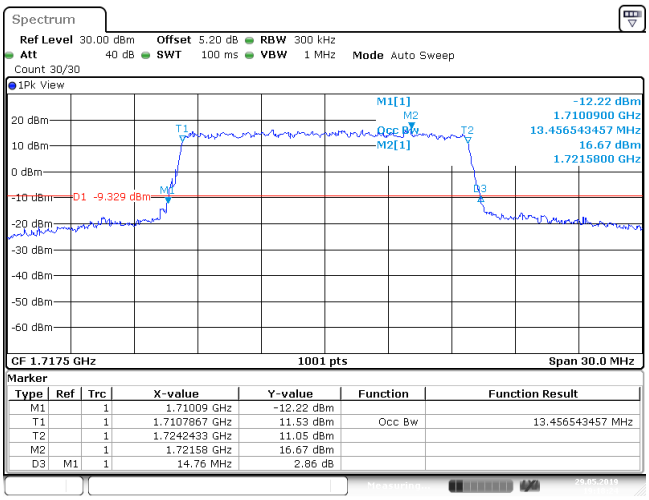
Band66_15MHz_QPSK_132322_75RB#0



Band66_15MHz_QPSK_132597_75RB#0



Band66_15MHz_16QAM_132047_75RB#0



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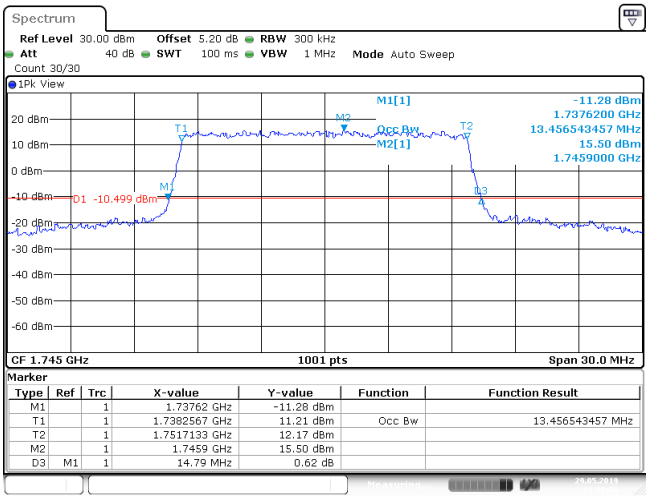

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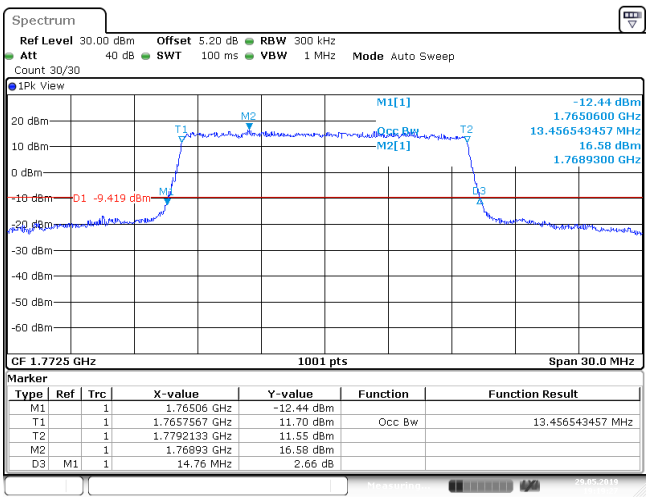
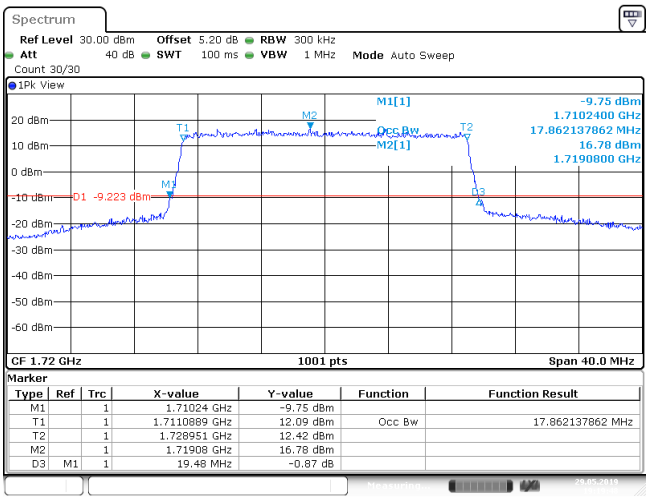


Band66_20MHz_QPSK_132072_100RB#0



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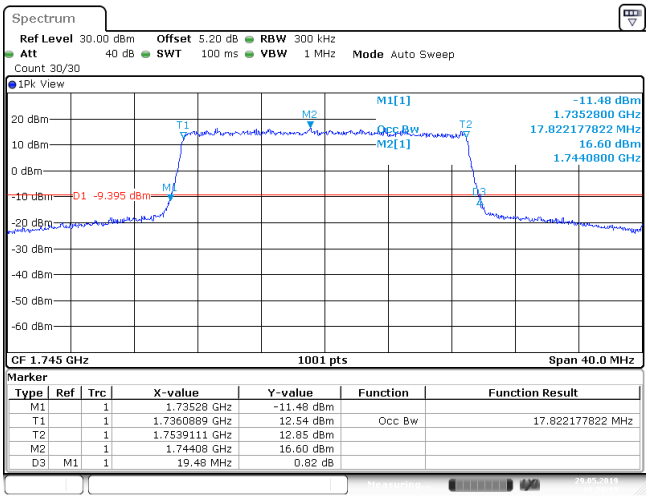

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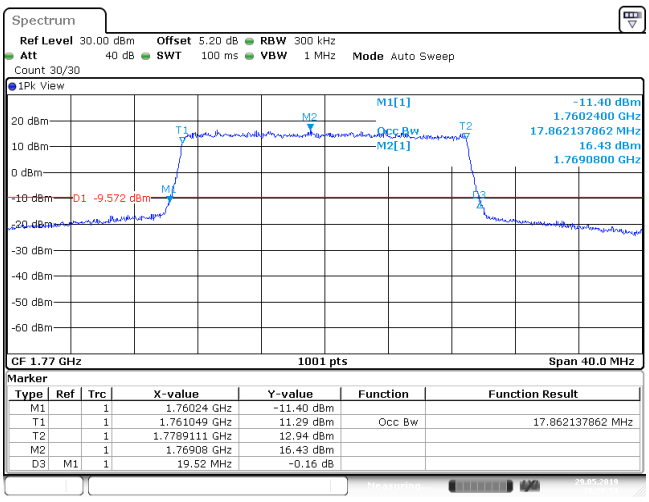

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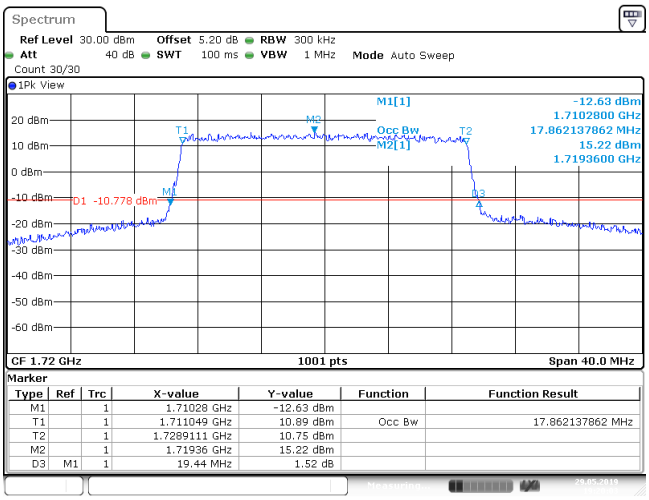

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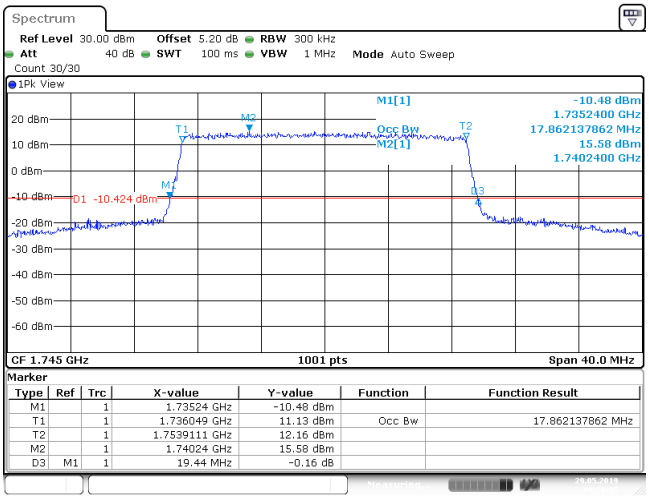
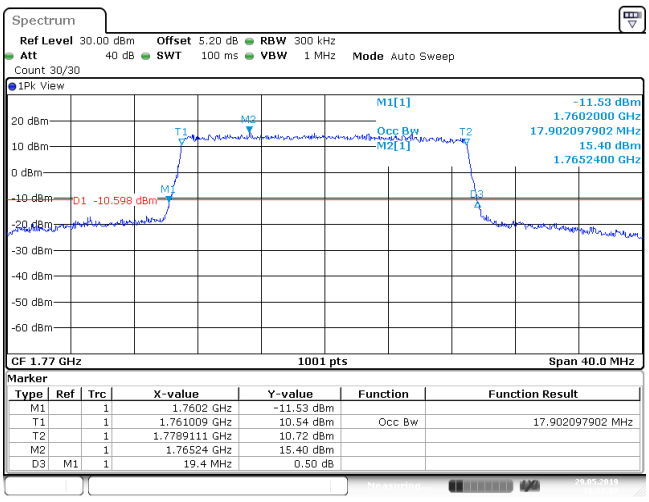
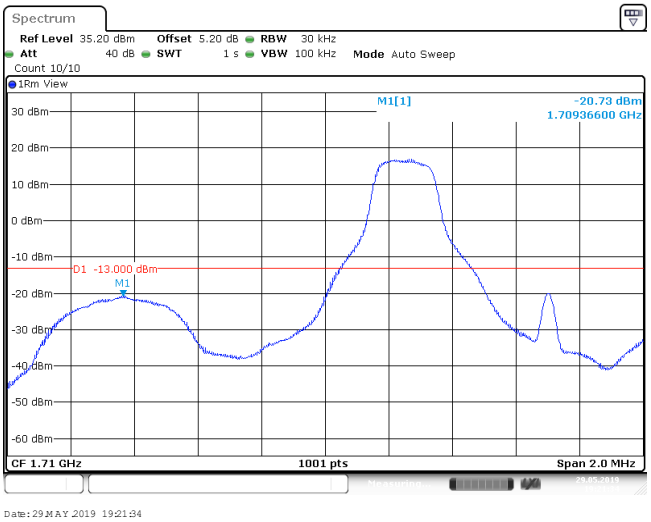


Band66_20MHz_16QAM_132572_100RB#0



7. Band Edge Compliance

7.1. Test Plots

Band66_1.4MHz_QPSK_131979_1RB#0

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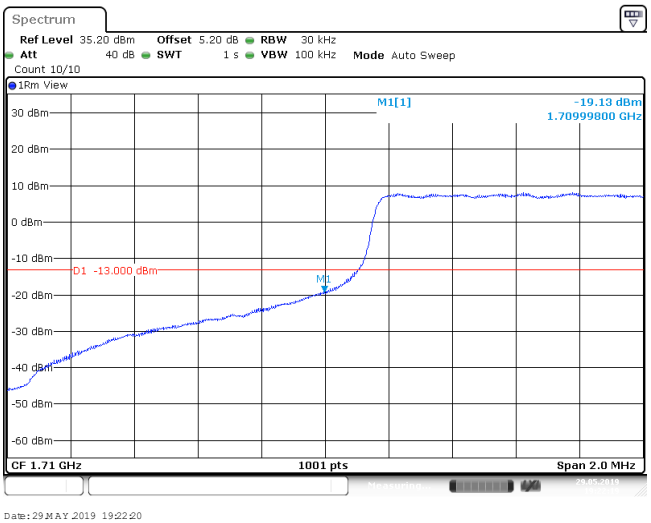
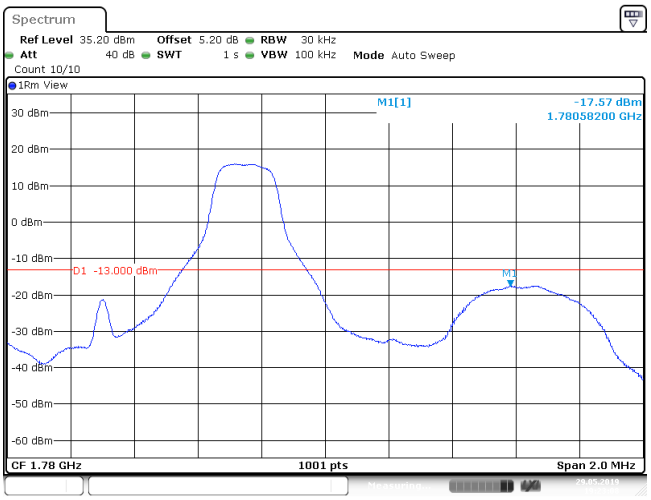
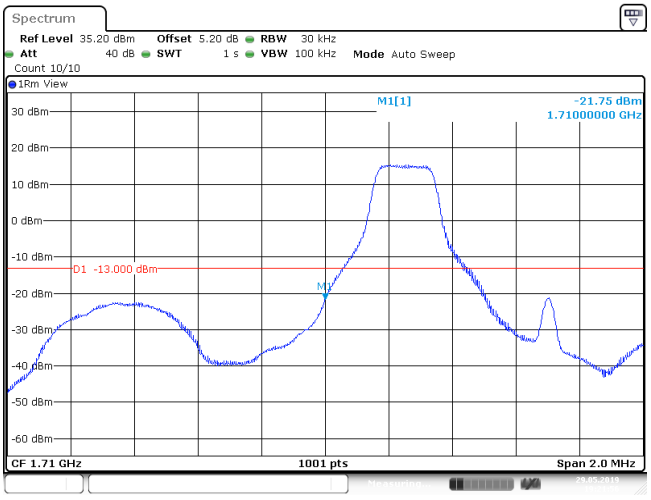


Band66_1.4MHz_QPSK_132665_1RB#5



Band66_1.4MHz_QPSK_132665_6RB#0

Band66_1.4MHz_16QAM_131979_1RB#0



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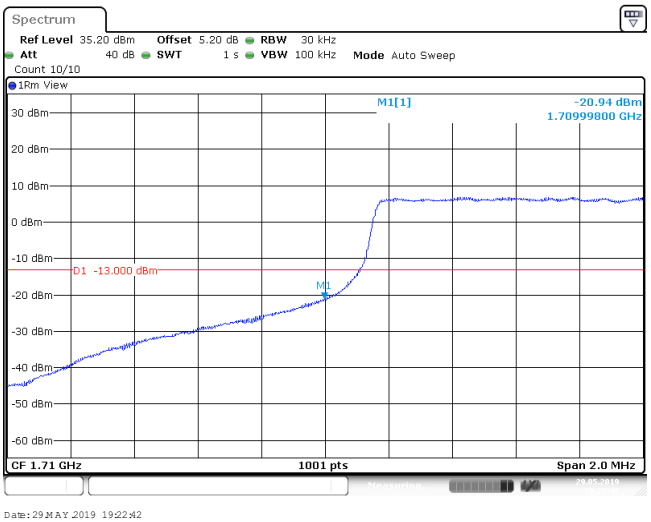

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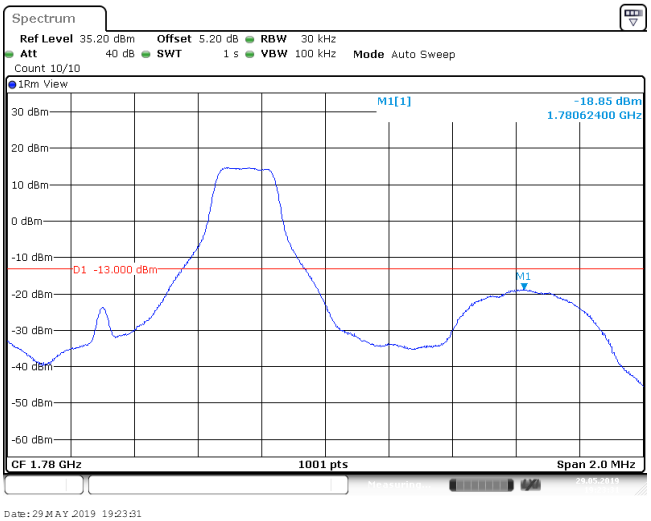
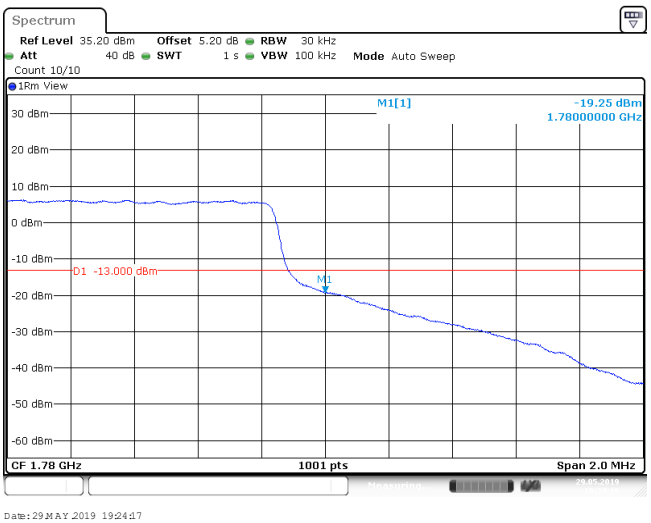
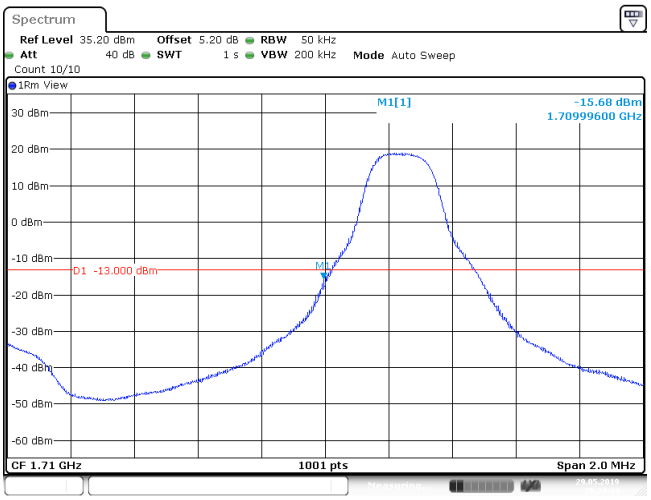


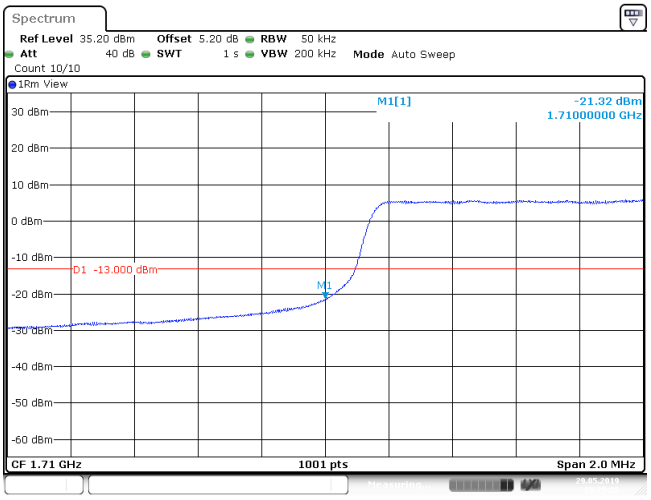
Band66_1.4MHz_16QAM_132665_6RB#0



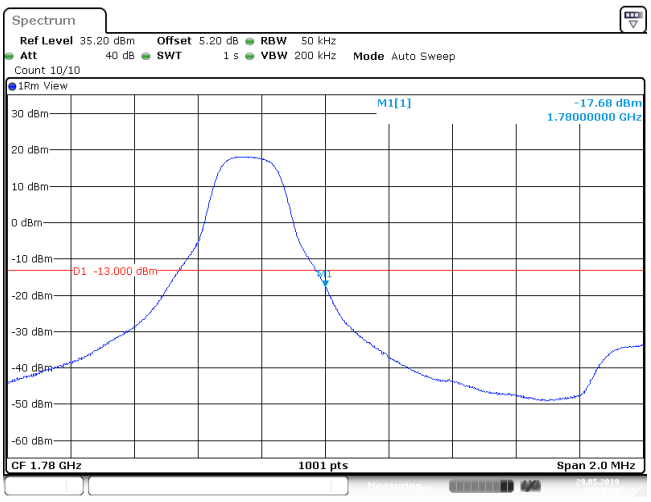
Band66_3MHz_QPSK_131987_1RB#0



Band66_3MHz_QPSK_131987_15RB#0



Band66_3MHz_QPSK_132657_1RB#14



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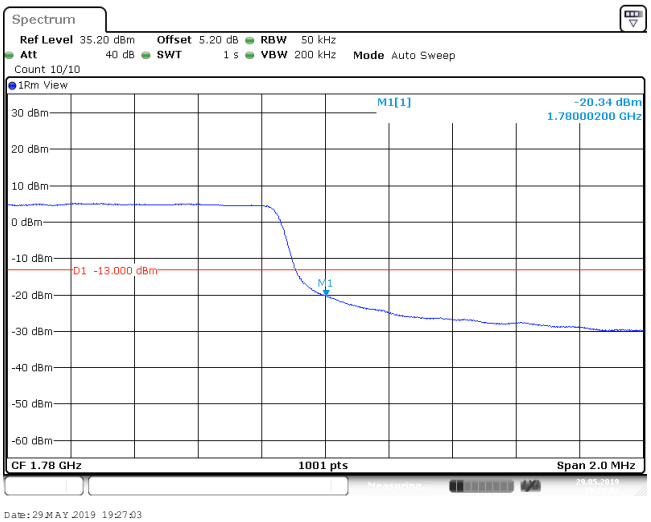

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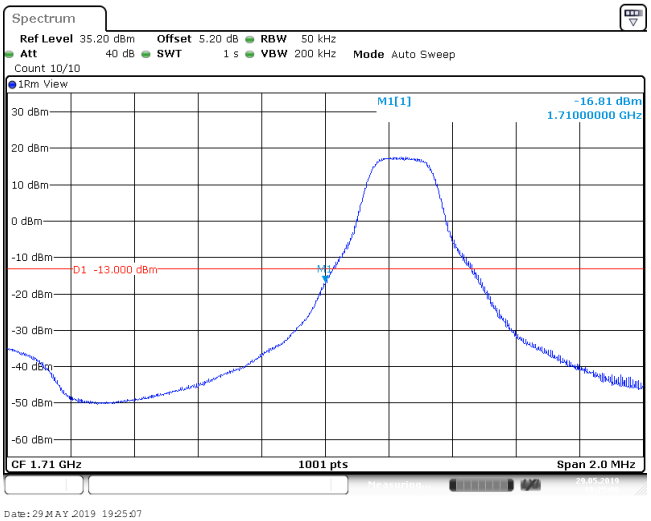
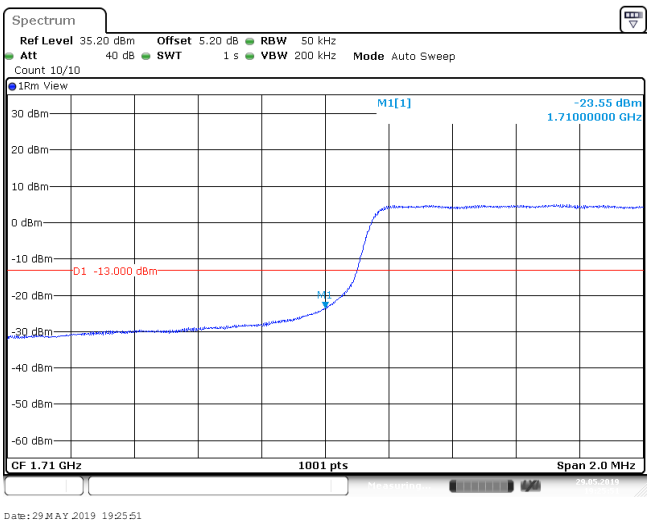
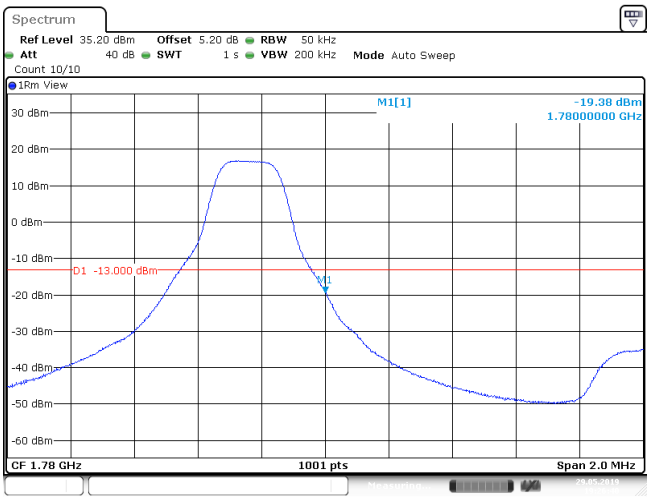


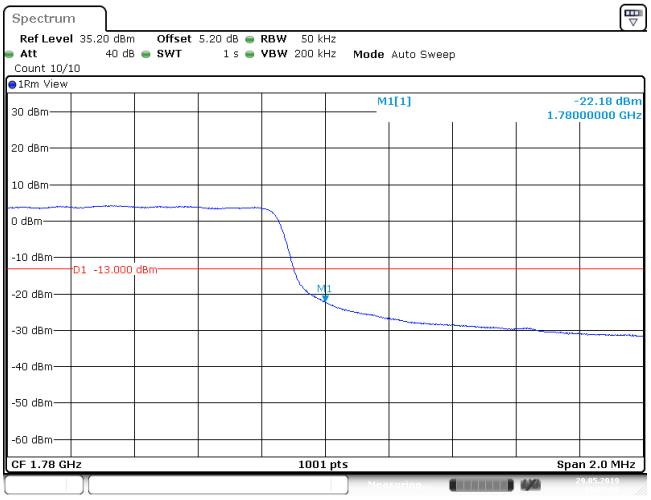
Band66_3MHz_16QAM_131987_15RB#0



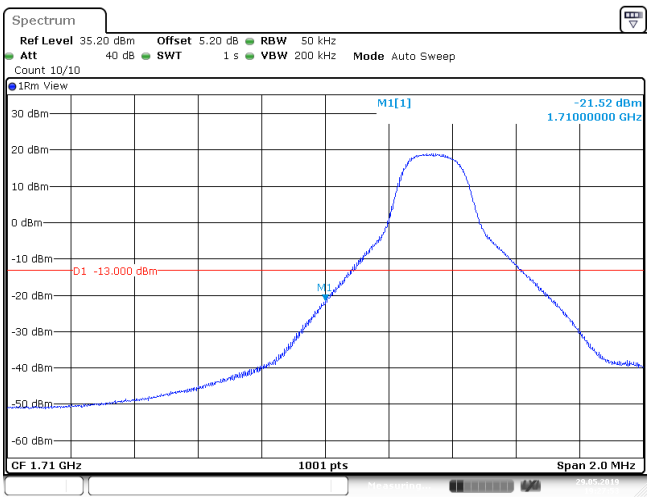
Band66_3MHz_16QAM_132657_1RB#14



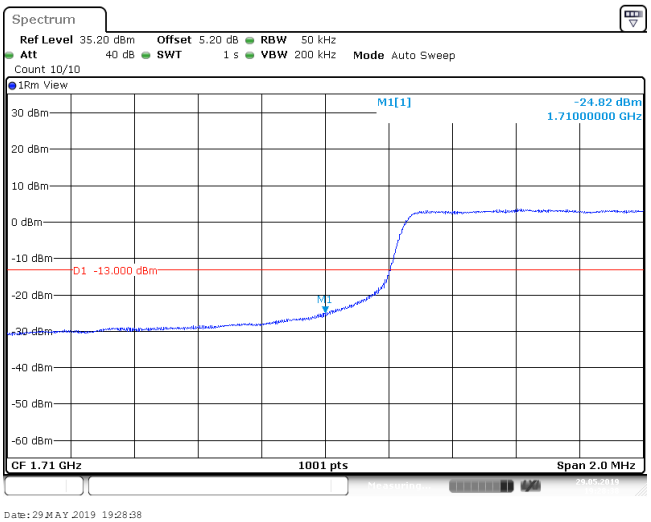
Band66_3MHz_16QAM_132657_15RB#0



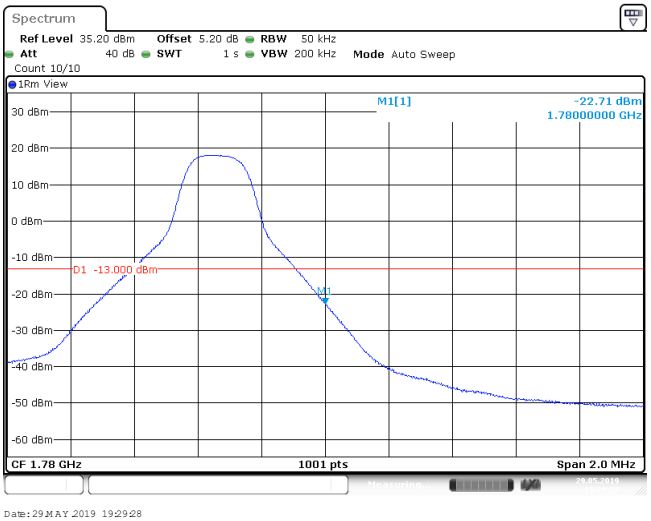
Band66_5MHz_QPSK_131997_1RB#0



Band66_5MHz_QPSK_131997_25RB#0



Band66_5MHz_QPSK_132647_1RB#24



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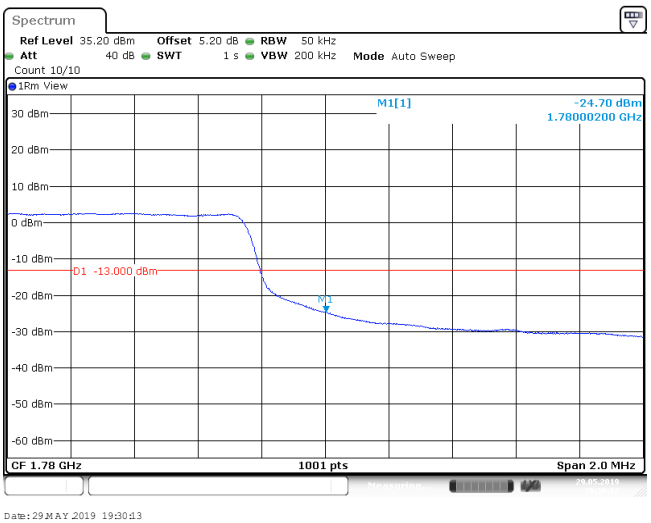

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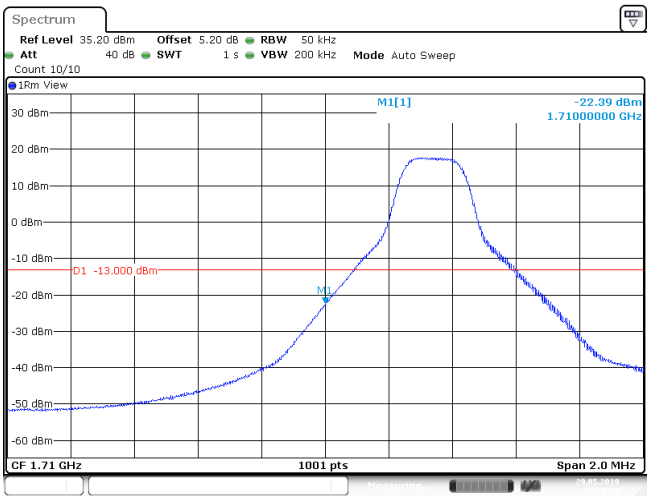

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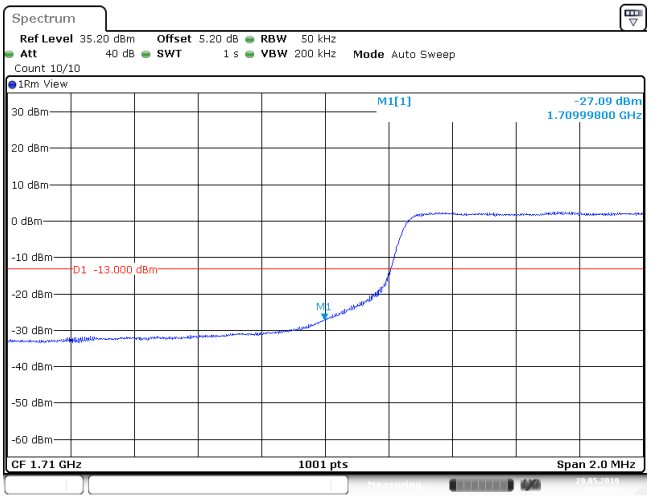
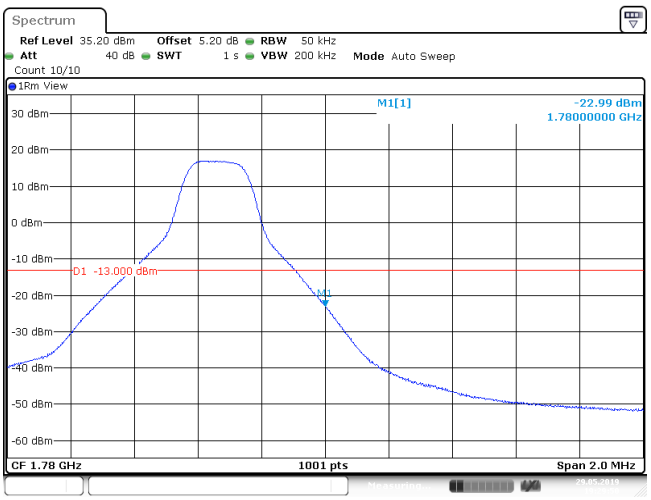
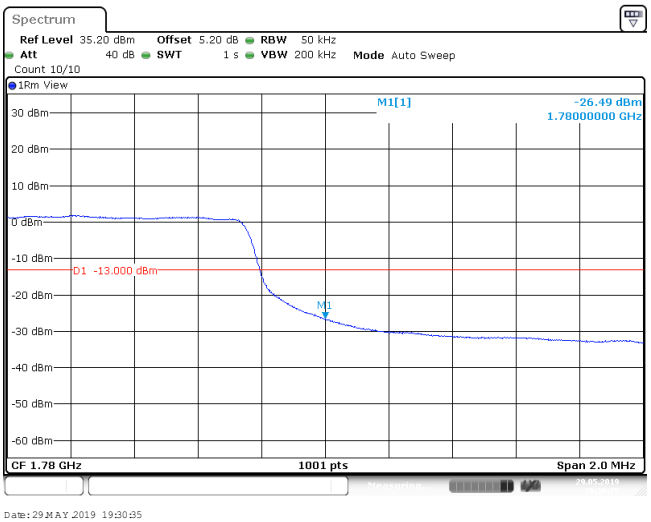


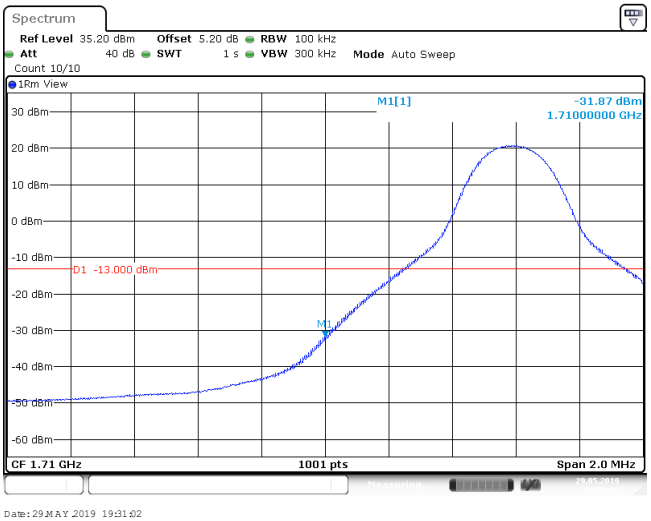
Band66_5MHz_16QAM_132647_1RB#24



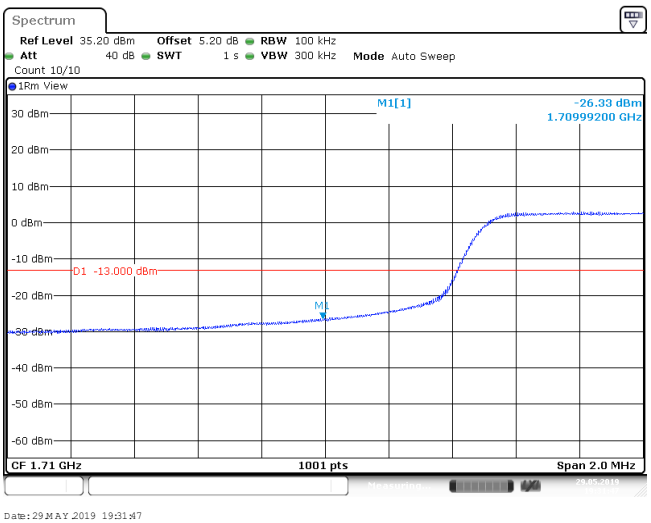
Band66_5MHz_16QAM_132647_25RB#0



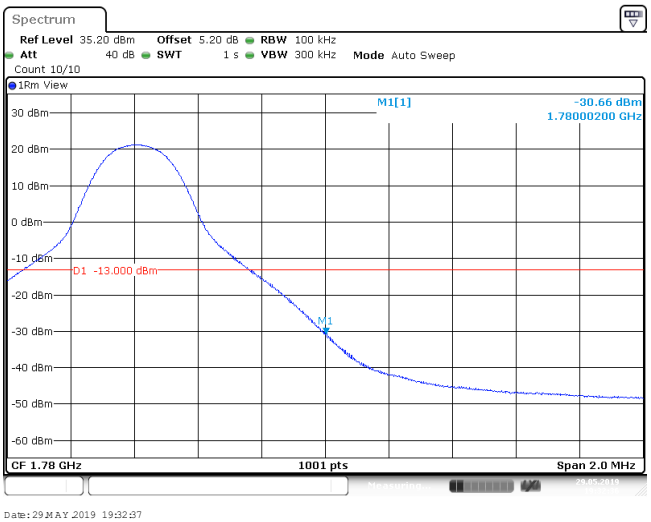
Band66_10MHz_QPSK_132022_1RB#0



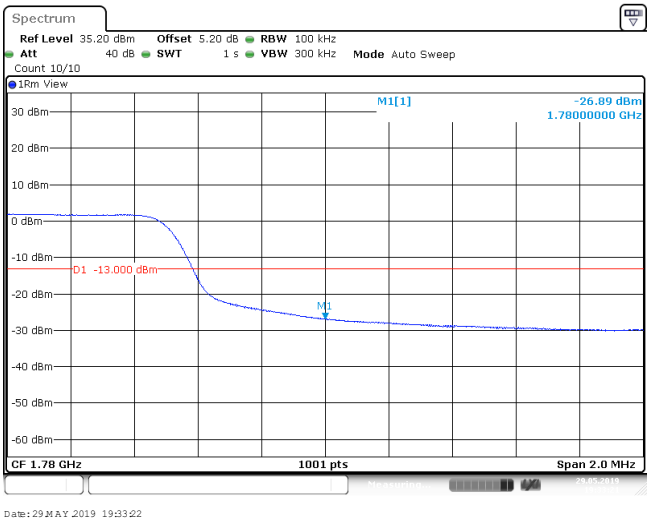
Band66_10MHz_QPSK_132022_50RB#0



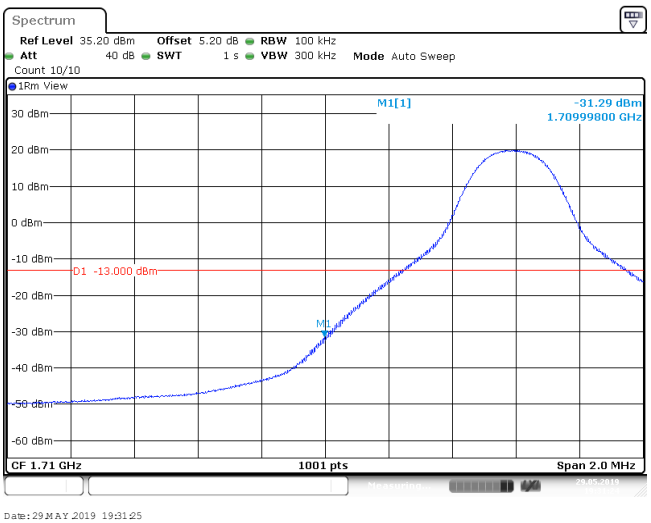
Band66_10MHz_QPSK_132622_1RB#49



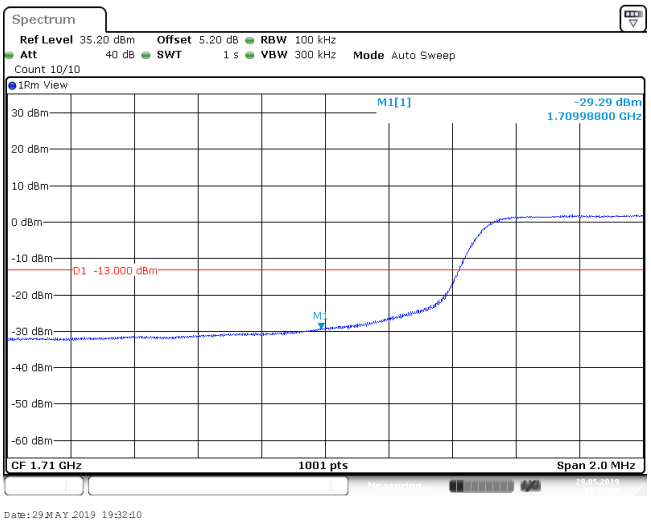
Band66_10MHz_QPSK_132622_50RB#0



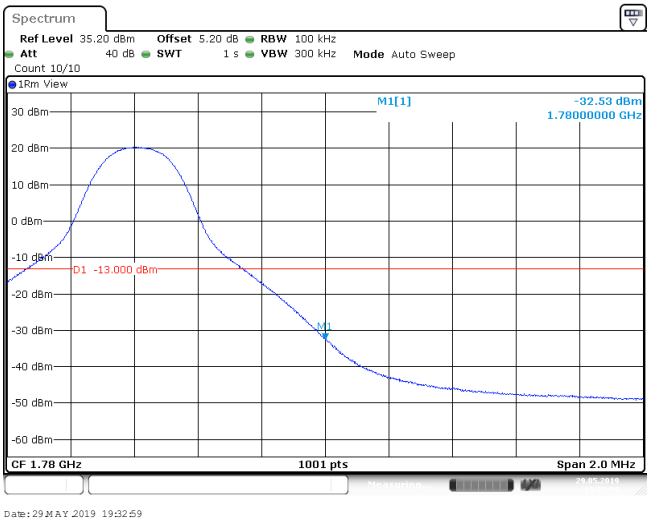
Band66_10MHz_16QAM_132022_1RB#0



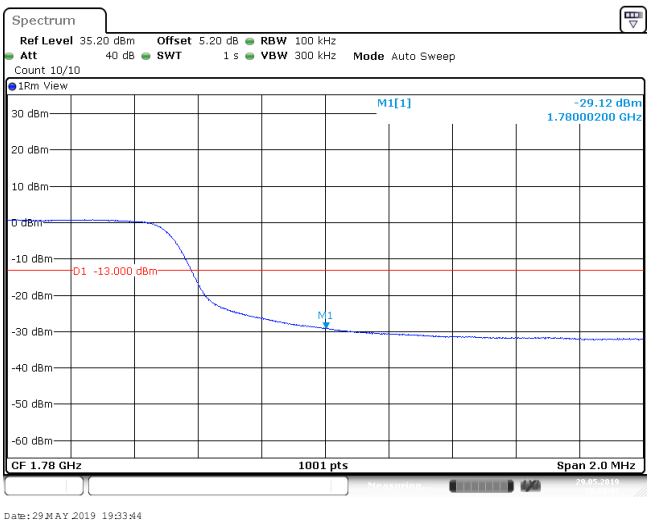
Band66_10MHz_16QAM_132022_50RB#0



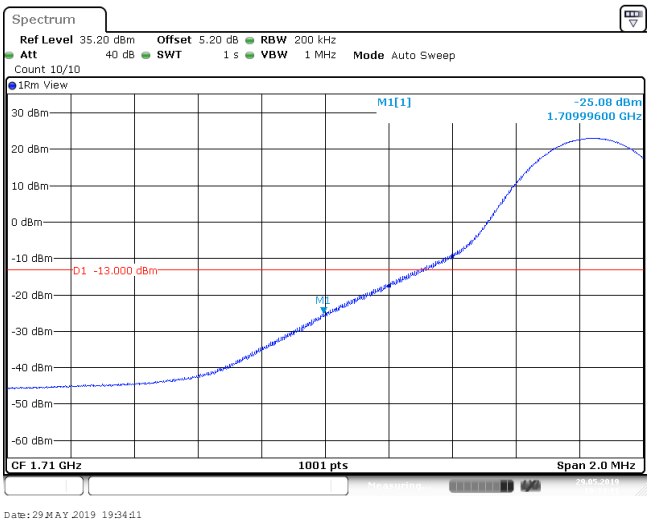
Band66_10MHz_16QAM_132622_1RB#49



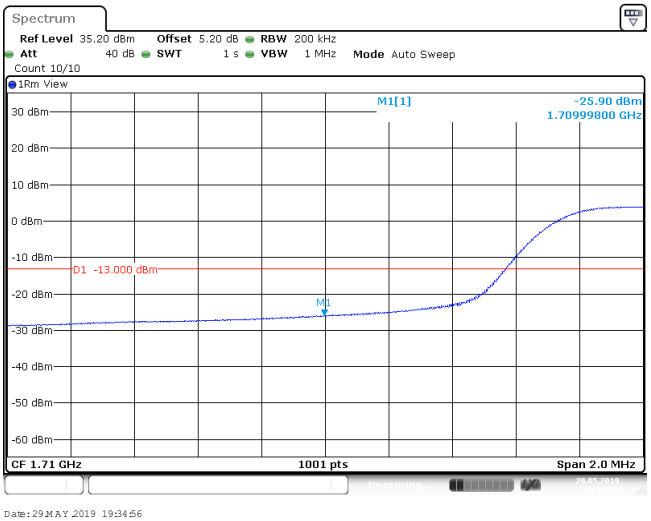
Band66_10MHz_16QAM_132622_50RB#0



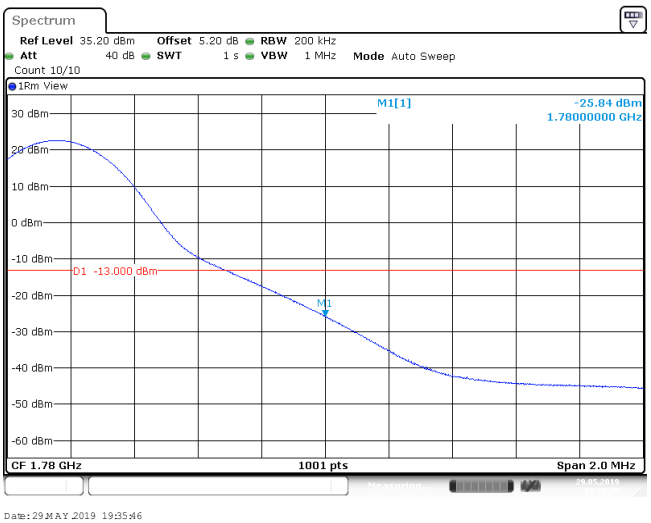
Band66_15MHz_QPSK_132047_1RB#0



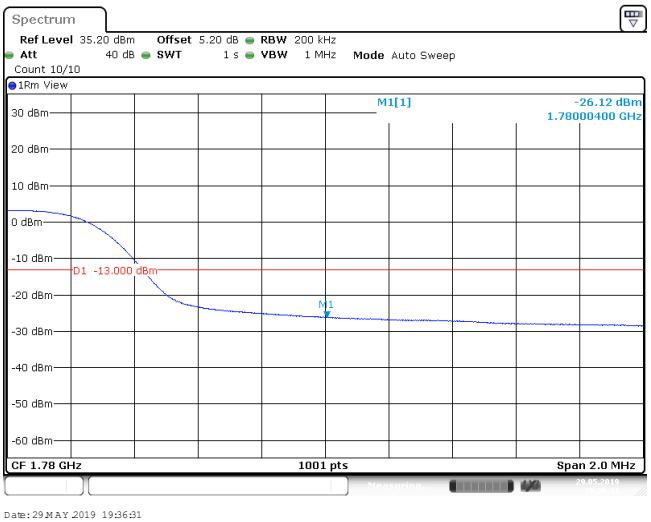
Band66_15MHz_QPSK_132047_75RB#0



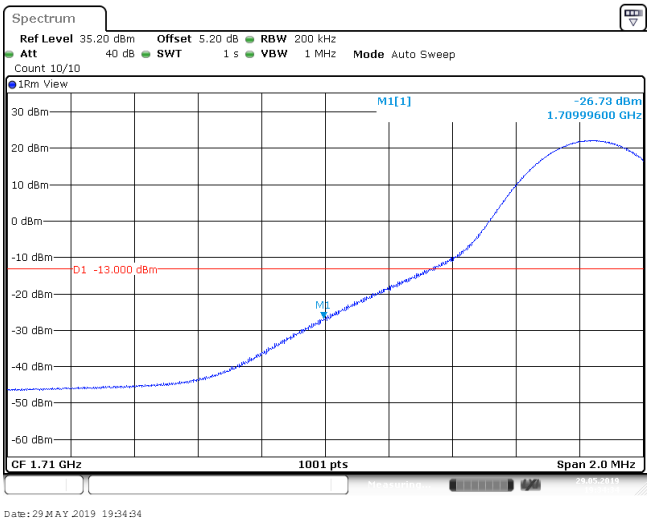
Band66_15MHz_QPSK_132597_1RB#74



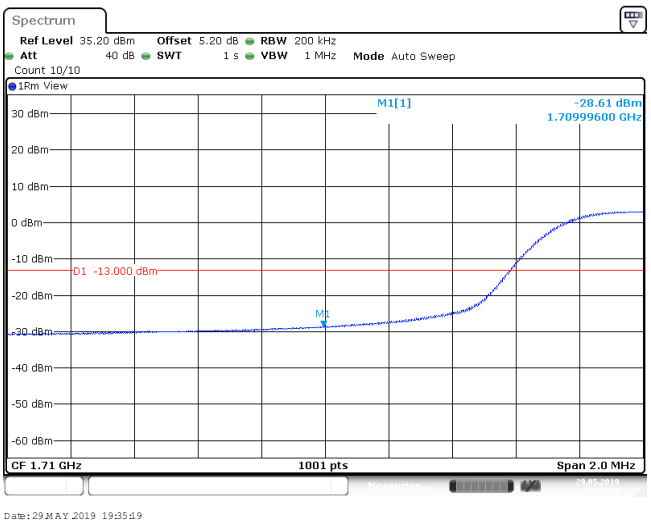
Band66_15MHz_QPSK_132597_75RB#0



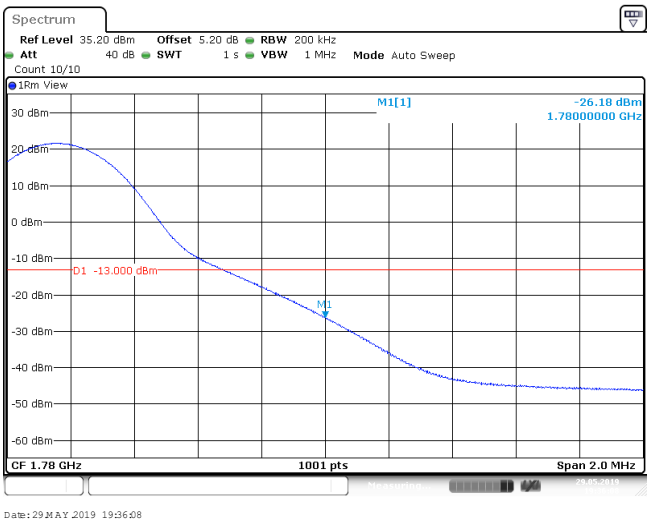
Band66_15MHz_16QAM_132047_1RB#0



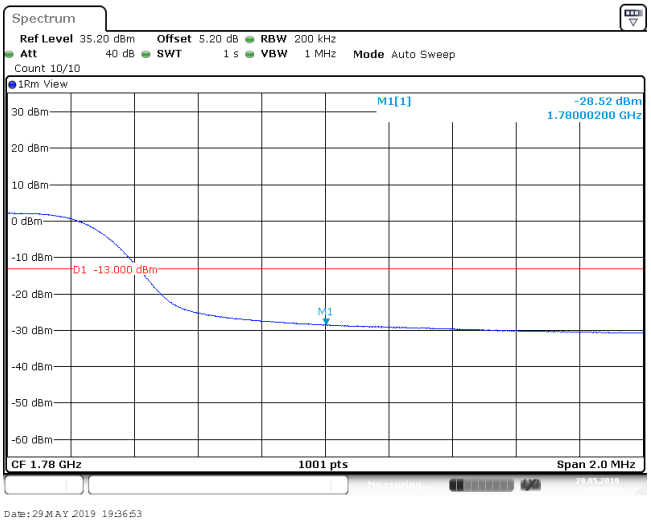
Band66_15MHz_16QAM_132047_75RB#0



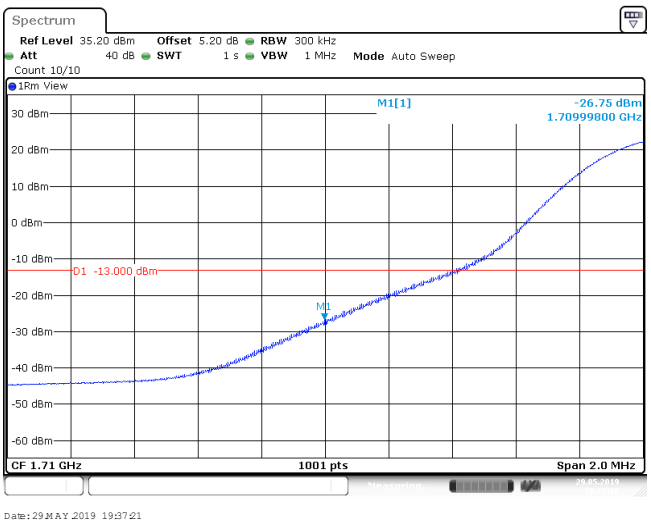
Band66_15MHz_16QAM_132597_1RB#74



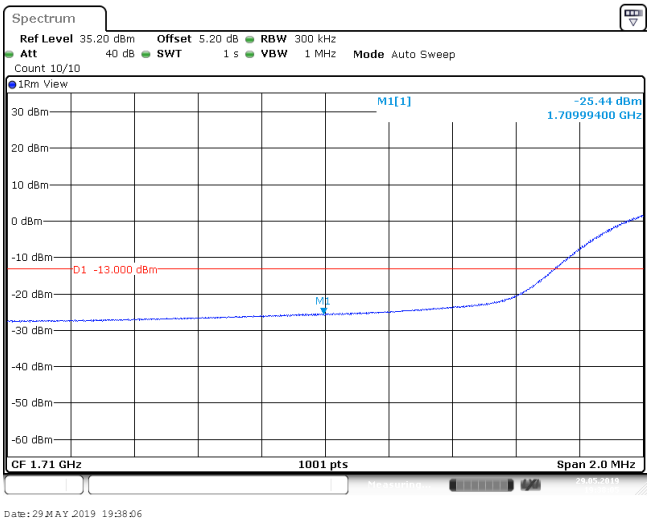
Band66_15MHz_16QAM_132597_75RB#0



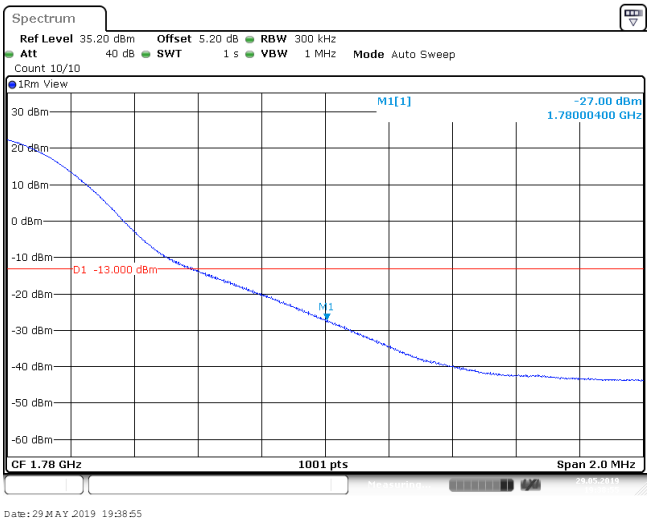
Band66_20MHz_QPSK_132072_1RB#0



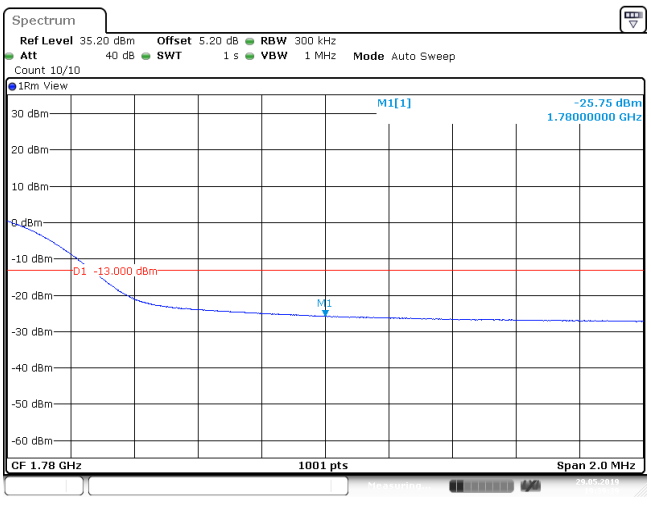
Band66_20MHz_QPSK_132072_100RB#0



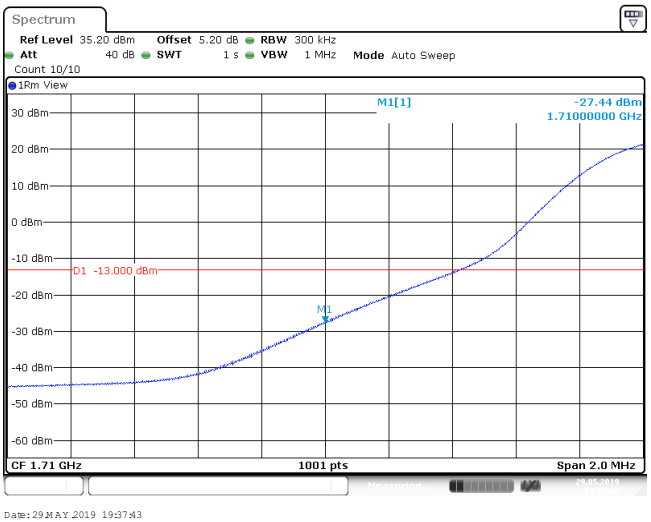
Band66_20MHz_QPSK_132572_1RB#99



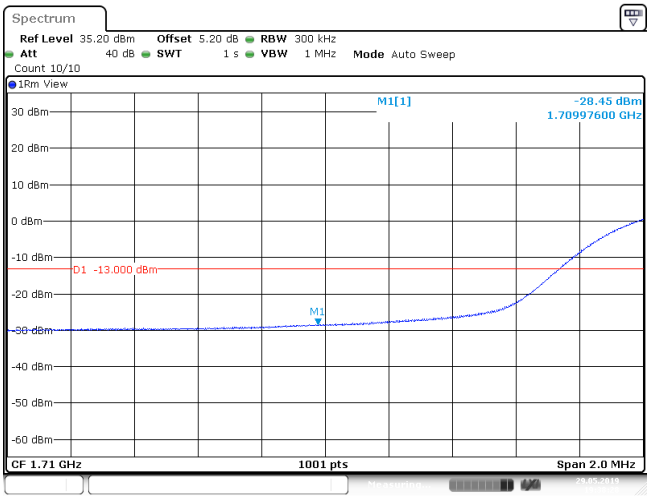
Band66_20MHz_QPSK_132572_100RB#0



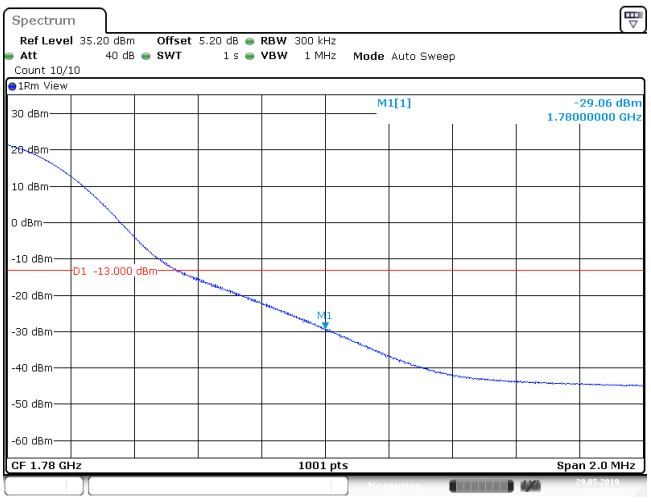
Band66_20MHz_16QAM_132072_1RB#0

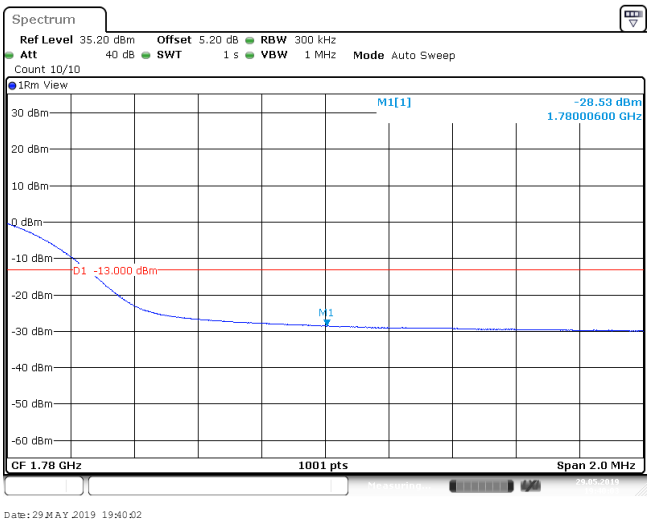


Band66_20MHz_16QAM_132072_100RB#0



Band66_20MHz_16QAM_132572_1RB#99



Band66_20MHz_16QAM_132572_100RB#0


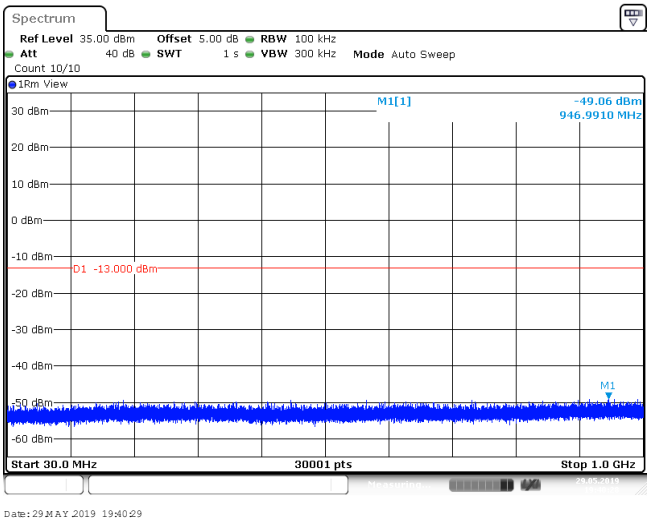
8. Spurious Emission at Antenna Terminal

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.

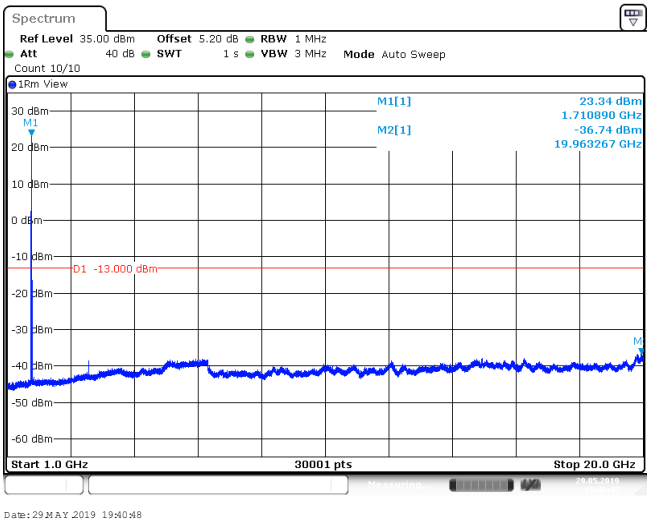
Remark2: only the worst case data displayed in this report.

8.1. Test Plots

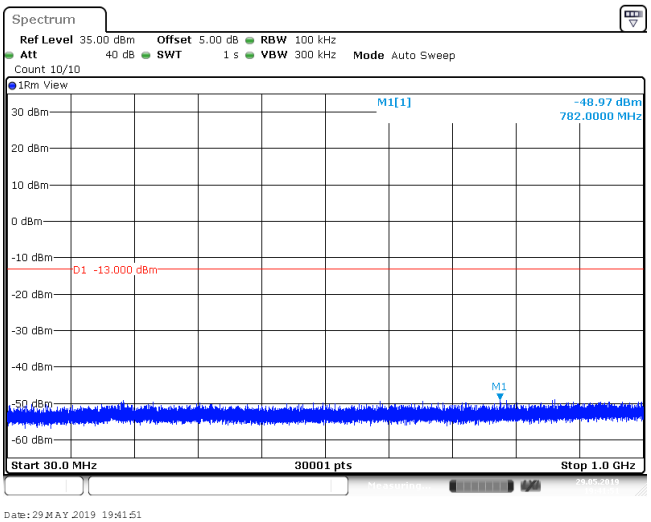
Band66_20MHz_QPSK_132072_1RB#0



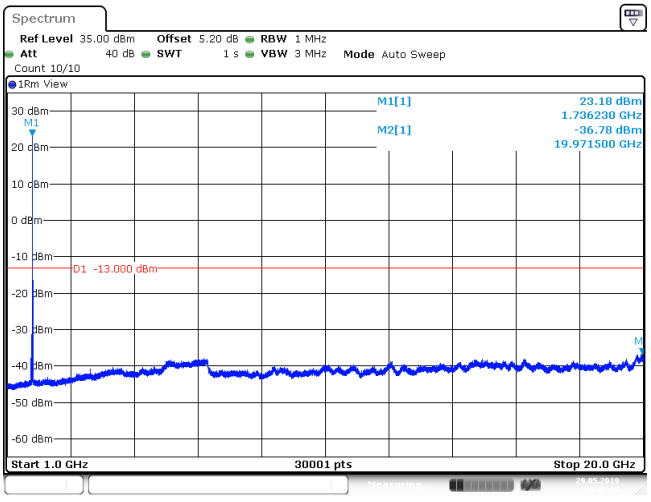
Band66_20MHz_QPSK_132072_1RB#0



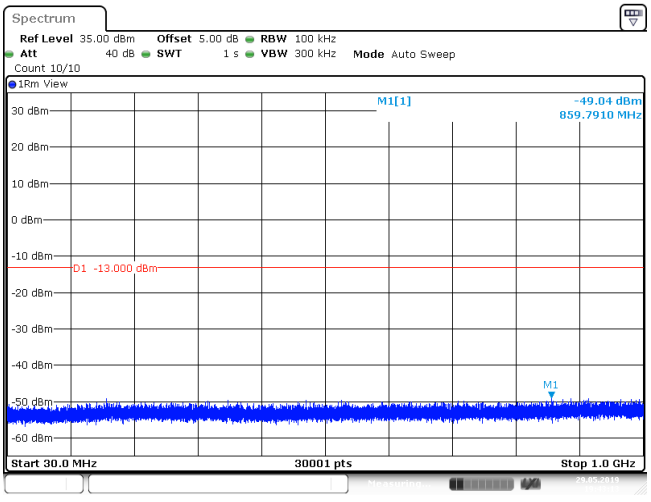
Band66_20MHz_QPSK_132322_1RB#0



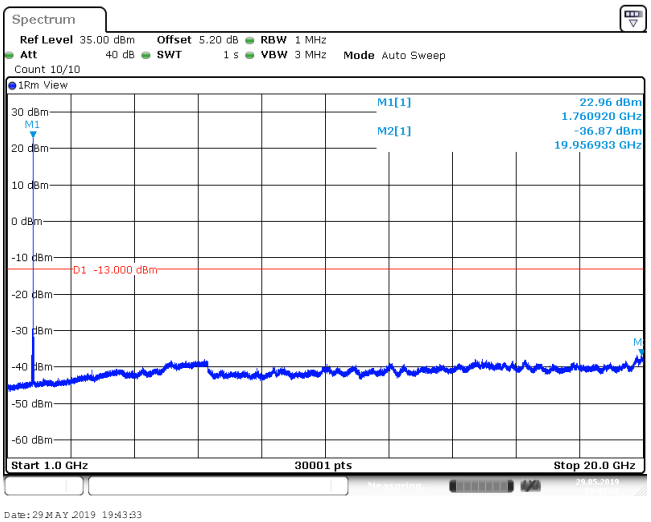
Band66_20MHz_QPSK_132322_1RB#0



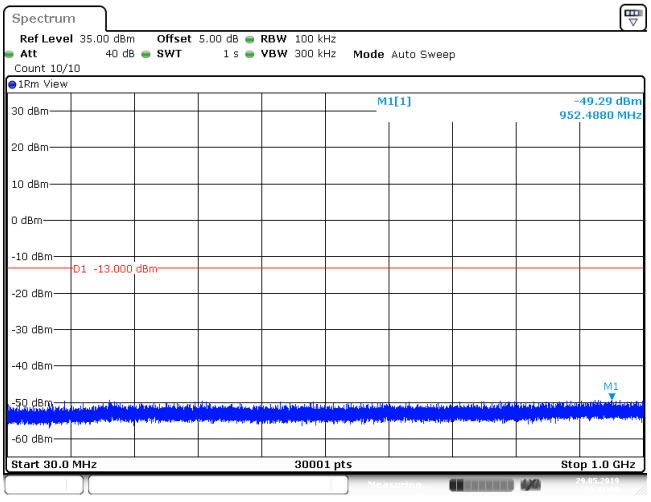
Band66_20MHz_QPSK_132572_1RB#0



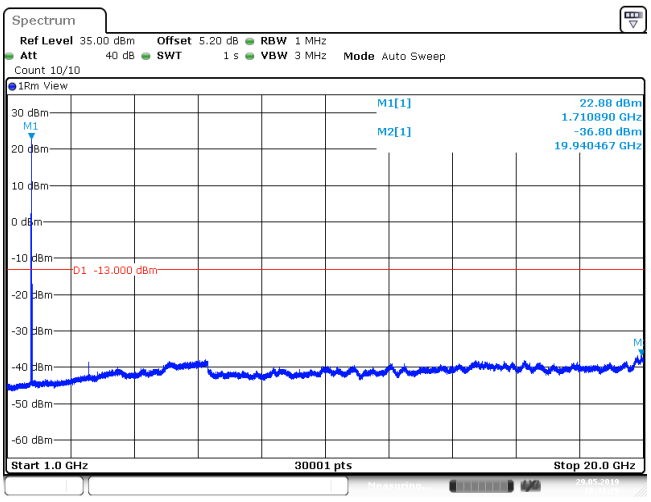
Band66_20MHz_QPSK_132572_1RB#0



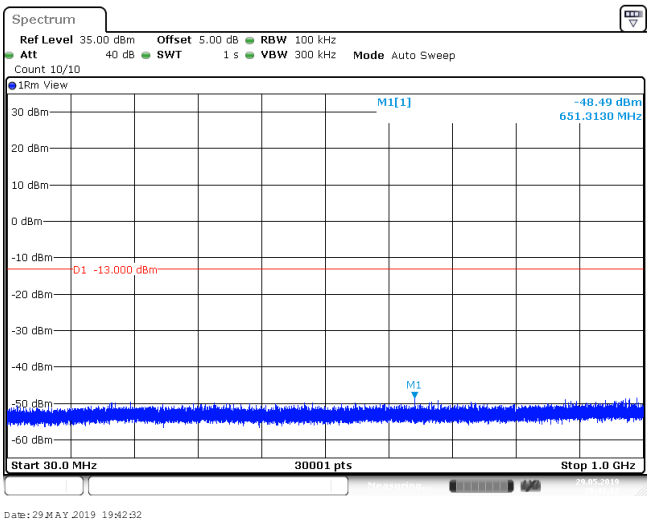
Band66_20MHz_16QAM_132072_1RB#0



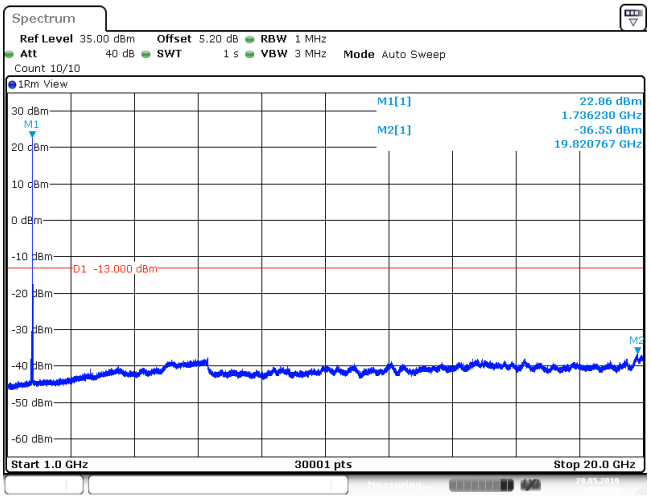
Band66_20MHz_16QAM_132072_1RB#0



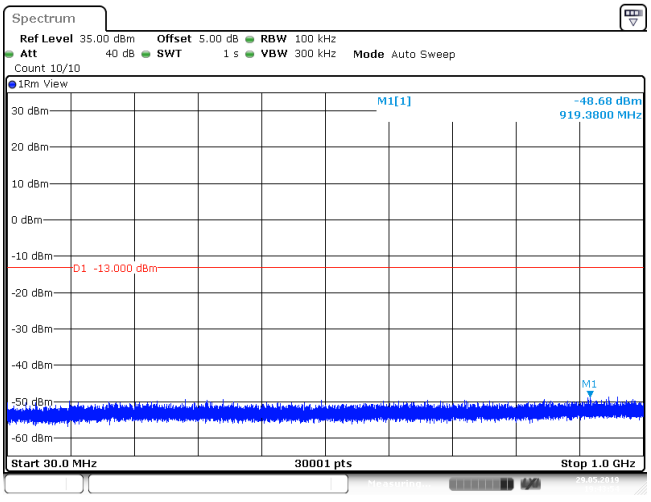
Band66_20MHz_16QAM_132322_1RB#0

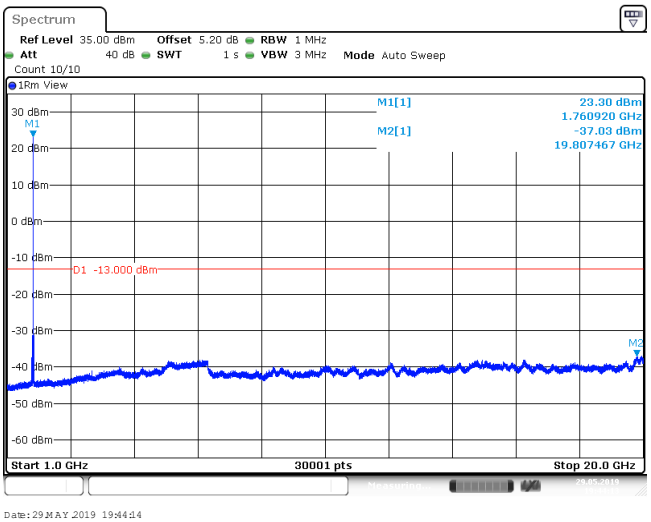


Band66_20MHz_16QAM_132322_1RB#0



Band66_20MHz_16QAM_132572_1RB#0



Band66_20MHz_16QAM_132572_1RB#0


9. Frequency Stability

9.1. Frequency Vs Voltage

Voltage										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band66	20MHz	QPSK	132072	100RB#0	VL	NT	-0.80	-0.000465	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	VN	NT	2.80	0.001628	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	VH	NT	0.90	0.000523	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	VL	NT	-1.30	-0.000745	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	VN	NT	-3.00	-0.001719	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	VH	NT	-3.90	-0.002235	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	VL	NT	1.50	0.000847	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	VN	NT	-0.40	-0.000226	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	VH	NT	-1.00	-0.000565	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	VL	NT	2.90	0.001686	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	VN	NT	3.40	0.001977	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	VH	NT	1.40	0.000814	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	VL	NT	-4.20	-0.002407	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	VN	NT	-0.60	-0.000344	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	VH	NT	-1.30	-0.000745	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	VL	NT	1.40	0.000791	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	VN	NT	0.80	0.000452	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	VH	NT	1.60	0.000904	±2.5	PASS

9.2. Frequency Vs Temperature

Temperature										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band66	20MHz	QPSK	132072	100RB#0	NV	-30	2.90	0.001686	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	-20	0.30	0.000174	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	0	1.80	0.001047	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	10	0.90	0.000523	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	20	1.70	0.000988	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-30	-1.60	-0.000917	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-20	-3.10	-0.001777	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	0	-1.30	-0.000745	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	10	-0.50	-0.000287	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	20	-0.30	-0.000172	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	-30	1.00	0.000565	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	-20	-0.80	-0.000452	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	0	1.30	0.000734	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	10	-1.00	-0.000565	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	20	0.80	0.000452	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	-30	0.40	0.000233	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	-20	3.00	0.001744	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	0	3.40	0.001977	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	10	1.80	0.001047	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	20	4.50	0.002616	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	-30	-1.30	-0.000745	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	-20	-2.50	-0.001433	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	0	-2.60	-0.001490	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	10	-1.50	-0.000860	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	20	-3.30	-0.001891	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	-30	1.90	0.001073	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	-20	-0.70	-0.000395	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	0	-1.90	-0.001073	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	10	-0.10	-0.000056	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	20	-2.20	-0.001243	±2.5	PASS

The End