

Appendix B.12

E-UTRA Band 26 (824-849)

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 26.....	13
5.2. TEST MODE = LTE /TM1 15MHZ	13
5.2.1. TEST CHANNEL = MCH	13
5.3. TEST MODE = LTE /TM2 15MHZ	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	26
7.1. TEST PLOTS	26
8. SPURIOUS EMISSION AT ANTENNA TERMINAL	40
8.1. TEST PLOTS	40
9. FREQUENCY STABILITY	45
9.1. FREQUENCY VS VOLTAGE	45
9.2. FREQUENCY VS TEMPERATURE	45

1. Main Test Instruments

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date
				(yyyy-mm-dd)	(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	2018/4/13	2021/4/12
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 Communication Tester	Anritsu	MT8821C	6201462742	2019/4/3	2020/4/3
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	W005-02	2019/1/13	2020/1/12
RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date
				(yyyy-mm-dd)	(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 Communication Tester	Anritsu	MT8821C	6201462742	2019/3/2	2020/3/1
Wideband Radio Communication Tester	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]	$U = \pm 0.37$ dB
Bandwidth	Magnitude [%]	$U = \pm 0.2\%$
Band Edge Compliance	Disturbance Power [dBm]	$U = \pm 2.0$ dB
Spurious Emissions, Conducted	Disturbance Power [dBm]	$U = \pm 2.0$ dB
Frequency Stability	Frequency Accuracy [ppm]	$U = \pm 0.24$ ppm

3. Effective (Isotropic) Radiated Power

3.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band26	1.4MHz	QPSK	26797	1RB#0	23.20	25.05	38.45	PASS
Band26	1.4MHz	QPSK	26797	1RB#2	23.01	24.86	38.45	PASS
Band26	1.4MHz	QPSK	26797	1RB#5	22.89	24.74	38.45	PASS
Band26	1.4MHz	QPSK	26797	3RB#0	22.98	24.83	38.45	PASS
Band26	1.4MHz	QPSK	26797	3RB#1	22.95	24.80	38.45	PASS
Band26	1.4MHz	QPSK	26797	3RB#3	23.01	24.86	38.45	PASS
Band26	1.4MHz	QPSK	26797	6RB#0	22.10	23.95	38.45	PASS
Band26	1.4MHz	QPSK	26915	1RB#0	23.42	25.27	38.45	PASS
Band26	1.4MHz	QPSK	26915	1RB#2	23.40	25.25	38.45	PASS
Band26	1.4MHz	QPSK	26915	1RB#5	23.37	25.22	38.45	PASS
Band26	1.4MHz	QPSK	26915	3RB#0	23.28	25.13	38.45	PASS
Band26	1.4MHz	QPSK	26915	3RB#1	23.42	25.27	38.45	PASS
Band26	1.4MHz	QPSK	26915	3RB#3	23.33	25.18	38.45	PASS
Band26	1.4MHz	QPSK	26915	6RB#0	22.39	24.24	38.45	PASS
Band26	1.4MHz	QPSK	27033	1RB#0	23.50	25.35	38.45	PASS
Band26	1.4MHz	QPSK	27033	1RB#2	23.48	25.33	38.45	PASS
Band26	1.4MHz	QPSK	27033	1RB#5	23.49	25.34	38.45	PASS
Band26	1.4MHz	QPSK	27033	3RB#0	23.36	25.21	38.45	PASS
Band26	1.4MHz	QPSK	27033	3RB#1	23.33	25.18	38.45	PASS
Band26	1.4MHz	QPSK	27033	3RB#3	23.34	25.19	38.45	PASS
Band26	1.4MHz	QPSK	27033	6RB#0	22.34	24.19	38.45	PASS
Band26	1.4MHz	16QAM	26797	1RB#0	22.35	24.20	38.45	PASS
Band26	1.4MHz	16QAM	26797	1RB#2	22.14	23.99	38.45	PASS
Band26	1.4MHz	16QAM	26797	1RB#5	22.15	24.00	38.45	PASS
Band26	1.4MHz	16QAM	26797	3RB#0	22.10	23.95	38.45	PASS
Band26	1.4MHz	16QAM	26797	3RB#1	22.09	23.94	38.45	PASS
Band26	1.4MHz	16QAM	26797	3RB#3	22.07	23.92	38.45	PASS
Band26	1.4MHz	16QAM	26797	6RB#0	21.12	22.97	38.45	PASS
Band26	1.4MHz	16QAM	26915	1RB#0	22.71	24.56	38.45	PASS
Band26	1.4MHz	16QAM	26915	1RB#2	22.61	24.46	38.45	PASS
Band26	1.4MHz	16QAM	26915	1RB#5	22.56	24.41	38.45	PASS
Band26	1.4MHz	16QAM	26915	3RB#0	22.39	24.24	38.45	PASS
Band26	1.4MHz	16QAM	26915	3RB#1	22.49	24.34	38.45	PASS
Band26	1.4MHz	16QAM	26915	3RB#3	22.41	24.26	38.45	PASS
Band26	1.4MHz	16QAM	26915	6RB#0	21.42	23.27	38.45	PASS
Band26	1.4MHz	16QAM	27033	1RB#0	22.55	24.40	38.45	PASS
Band26	1.4MHz	16QAM	27033	1RB#2	22.53	24.38	38.45	PASS

Band26	1.4MHz	16QAM	27033	1RB#5	22.50	24.35	38.45	PASS
Band26	1.4MHz	16QAM	27033	3RB#0	22.44	24.29	38.45	PASS
Band26	1.4MHz	16QAM	27033	3RB#1	22.56	24.41	38.45	PASS
Band26	1.4MHz	16QAM	27033	3RB#3	22.44	24.29	38.45	PASS
Band26	1.4MHz	16QAM	27033	6RB#0	21.46	23.31	38.45	PASS
Band26	3MHz	QPSK	26805	1RB#0	23.06	24.91	38.45	PASS
Band26	3MHz	QPSK	26805	1RB#8	23.07	24.92	38.45	PASS
Band26	3MHz	QPSK	26805	1RB#14	22.99	24.84	38.45	PASS
Band26	3MHz	QPSK	26805	8RB#0	22.06	23.91	38.45	PASS
Band26	3MHz	QPSK	26805	8RB#4	21.98	23.83	38.45	PASS
Band26	3MHz	QPSK	26805	8RB#7	22.03	23.88	38.45	PASS
Band26	3MHz	QPSK	26805	15RB#0	22.04	23.89	38.45	PASS
Band26	3MHz	QPSK	26915	1RB#0	23.34	25.19	38.45	PASS
Band26	3MHz	QPSK	26915	1RB#8	23.38	25.23	38.45	PASS
Band26	3MHz	QPSK	26915	1RB#14	23.31	25.16	38.45	PASS
Band26	3MHz	QPSK	26915	8RB#0	22.43	24.28	38.45	PASS
Band26	3MHz	QPSK	26915	8RB#4	22.41	24.26	38.45	PASS
Band26	3MHz	QPSK	26915	8RB#7	22.32	24.17	38.45	PASS
Band26	3MHz	QPSK	26915	15RB#0	22.39	24.24	38.45	PASS
Band26	3MHz	QPSK	27025	1RB#0	23.49	25.34	38.45	PASS
Band26	3MHz	QPSK	27025	1RB#8	23.68	25.53	38.45	PASS
Band26	3MHz	QPSK	27025	1RB#14	23.60	25.45	38.45	PASS
Band26	3MHz	QPSK	27025	8RB#0	22.51	24.36	38.45	PASS
Band26	3MHz	QPSK	27025	8RB#4	22.39	24.24	38.45	PASS
Band26	3MHz	QPSK	27025	8RB#7	22.45	24.30	38.45	PASS
Band26	3MHz	QPSK	27025	15RB#0	22.45	24.30	38.45	PASS
Band26	3MHz	16QAM	26805	1RB#0	22.19	24.04	38.45	PASS
Band26	3MHz	16QAM	26805	1RB#8	22.17	24.02	38.45	PASS
Band26	3MHz	16QAM	26805	1RB#14	22.27	24.12	38.45	PASS
Band26	3MHz	16QAM	26805	8RB#0	21.12	22.97	38.45	PASS
Band26	3MHz	16QAM	26805	8RB#4	21.01	22.86	38.45	PASS
Band26	3MHz	16QAM	26805	8RB#7	21.06	22.91	38.45	PASS
Band26	3MHz	16QAM	26805	15RB#0	21.12	22.97	38.45	PASS
Band26	3MHz	16QAM	26915	1RB#0	22.48	24.33	38.45	PASS
Band26	3MHz	16QAM	26915	1RB#8	22.54	24.39	38.45	PASS
Band26	3MHz	16QAM	26915	1RB#14	22.45	24.30	38.45	PASS
Band26	3MHz	16QAM	26915	8RB#0	21.40	23.25	38.45	PASS
Band26	3MHz	16QAM	26915	8RB#4	21.41	23.26	38.45	PASS
Band26	3MHz	16QAM	26915	8RB#7	21.45	23.30	38.45	PASS
Band26	3MHz	16QAM	26915	15RB#0	21.34	23.19	38.45	PASS
Band26	3MHz	16QAM	27025	1RB#0	22.67	24.52	38.45	PASS
Band26	3MHz	16QAM	27025	1RB#8	22.62	24.47	38.45	PASS
Band26	3MHz	16QAM	27025	1RB#14	22.74	24.59	38.45	PASS
Band26	3MHz	16QAM	27025	8RB#0	21.53	23.38	38.45	PASS

Band26	3MHz	16QAM	27025	8RB#4	21.45	23.30	38.45	PASS
Band26	3MHz	16QAM	27025	8RB#7	21.57	23.42	38.45	PASS
Band26	3MHz	16QAM	27025	15RB#0	21.55	23.40	38.45	PASS
Band26	5MHz	QPSK	26815	1RB#0	23.02	24.87	38.45	PASS
Band26	5MHz	QPSK	26815	1RB#12	23.10	24.95	38.45	PASS
Band26	5MHz	QPSK	26815	1RB#24	22.77	24.62	38.45	PASS
Band26	5MHz	QPSK	26815	12RB#0	22.11	23.96	38.45	PASS
Band26	5MHz	QPSK	26815	12RB#6	21.99	23.84	38.45	PASS
Band26	5MHz	QPSK	26815	12RB#13	21.94	23.79	38.45	PASS
Band26	5MHz	QPSK	26815	25RB#0	21.97	23.82	38.45	PASS
Band26	5MHz	QPSK	26915	1RB#0	23.28	25.13	38.45	PASS
Band26	5MHz	QPSK	26915	1RB#12	23.45	25.30	38.45	PASS
Band26	5MHz	QPSK	26915	1RB#24	23.10	24.95	38.45	PASS
Band26	5MHz	QPSK	26915	12RB#0	22.41	24.26	38.45	PASS
Band26	5MHz	QPSK	26915	12RB#6	22.27	24.12	38.45	PASS
Band26	5MHz	QPSK	26915	12RB#13	22.24	24.09	38.45	PASS
Band26	5MHz	QPSK	26915	25RB#0	22.48	24.33	38.45	PASS
Band26	5MHz	QPSK	27015	1RB#0	23.52	25.37	38.45	PASS
Band26	5MHz	QPSK	27015	1RB#12	23.64	25.49	38.45	PASS
Band26	5MHz	QPSK	27015	1RB#24	23.43	25.28	38.45	PASS
Band26	5MHz	QPSK	27015	12RB#0	22.46	24.31	38.45	PASS
Band26	5MHz	QPSK	27015	12RB#6	22.56	24.41	38.45	PASS
Band26	5MHz	QPSK	27015	12RB#13	22.45	24.30	38.45	PASS
Band26	5MHz	QPSK	27015	25RB#0	22.45	24.30	38.45	PASS
Band26	5MHz	16QAM	26815	1RB#0	22.32	24.17	38.45	PASS
Band26	5MHz	16QAM	26815	1RB#12	22.20	24.05	38.45	PASS
Band26	5MHz	16QAM	26815	1RB#24	22.20	24.05	38.45	PASS
Band26	5MHz	16QAM	26815	12RB#0	21.16	23.01	38.45	PASS
Band26	5MHz	16QAM	26815	12RB#6	21.02	22.87	38.45	PASS
Band26	5MHz	16QAM	26815	12RB#13	21.05	22.90	38.45	PASS
Band26	5MHz	16QAM	26815	25RB#0	21.05	22.90	38.45	PASS
Band26	5MHz	16QAM	26915	1RB#0	22.64	24.49	38.45	PASS
Band26	5MHz	16QAM	26915	1RB#12	22.69	24.54	38.45	PASS
Band26	5MHz	16QAM	26915	1RB#24	22.47	24.32	38.45	PASS
Band26	5MHz	16QAM	26915	12RB#0	21.43	23.28	38.45	PASS
Band26	5MHz	16QAM	26915	12RB#6	21.34	23.19	38.45	PASS
Band26	5MHz	16QAM	26915	12RB#13	21.35	23.20	38.45	PASS
Band26	5MHz	16QAM	26915	25RB#0	21.38	23.23	38.45	PASS
Band26	5MHz	16QAM	27015	1RB#0	22.86	24.71	38.45	PASS
Band26	5MHz	16QAM	27015	1RB#12	22.75	24.60	38.45	PASS
Band26	5MHz	16QAM	27015	1RB#24	22.61	24.46	38.45	PASS
Band26	5MHz	16QAM	27015	12RB#0	21.62	23.47	38.45	PASS
Band26	5MHz	16QAM	27015	12RB#6	21.59	23.44	38.45	PASS
Band26	5MHz	16QAM	27015	12RB#13	21.56	23.41	38.45	PASS

Band26	5MHz	16QAM	27015	25RB#0	21.62	23.47	38.45	PASS
Band26	10MHz	QPSK	26840	1RB#0	23.35	25.20	38.45	PASS
Band26	10MHz	QPSK	26840	1RB#24	23.39	25.24	38.45	PASS
Band26	10MHz	QPSK	26840	1RB#49	23.02	24.87	38.45	PASS
Band26	10MHz	QPSK	26840	25RB#0	22.14	23.99	38.45	PASS
Band26	10MHz	QPSK	26840	25RB#12	22.07	23.92	38.45	PASS
Band26	10MHz	QPSK	26840	25RB#25	22.09	23.94	38.45	PASS
Band26	10MHz	QPSK	26840	50RB#0	22.08	23.93	38.45	PASS
Band26	10MHz	QPSK	26915	1RB#0	23.20	25.05	38.45	PASS
Band26	10MHz	QPSK	26915	1RB#24	23.91	25.76	38.45	PASS
Band26	10MHz	QPSK	26915	1RB#49	22.66	24.51	38.45	PASS
Band26	10MHz	QPSK	26915	25RB#0	22.77	24.62	38.45	PASS
Band26	10MHz	QPSK	26915	25RB#12	22.44	24.29	38.45	PASS
Band26	10MHz	QPSK	26915	25RB#25	22.04	23.89	38.45	PASS
Band26	10MHz	QPSK	26915	50RB#0	22.38	24.23	38.45	PASS
Band26	10MHz	QPSK	26990	1RB#0	23.77	25.62	38.45	PASS
Band26	10MHz	QPSK	26990	1RB#24	23.59	25.44	38.45	PASS
Band26	10MHz	QPSK	26990	1RB#49	23.26	25.11	38.45	PASS
Band26	10MHz	QPSK	26990	25RB#0	22.64	24.49	38.45	PASS
Band26	10MHz	QPSK	26990	25RB#12	22.52	24.37	38.45	PASS
Band26	10MHz	QPSK	26990	25RB#25	22.42	24.27	38.45	PASS
Band26	10MHz	QPSK	26990	50RB#0	22.55	24.40	38.45	PASS
Band26	10MHz	16QAM	26840	1RB#0	22.50	24.35	38.45	PASS
Band26	10MHz	16QAM	26840	1RB#24	22.21	24.06	38.45	PASS
Band26	10MHz	16QAM	26840	1RB#49	22.55	24.40	38.45	PASS
Band26	10MHz	16QAM	26840	25RB#0	21.16	23.01	38.45	PASS
Band26	10MHz	16QAM	26840	25RB#12	21.04	22.89	38.45	PASS
Band26	10MHz	16QAM	26840	25RB#25	21.08	22.93	38.45	PASS
Band26	10MHz	16QAM	26840	50RB#0	21.07	22.92	38.45	PASS
Band26	10MHz	16QAM	26915	1RB#0	22.90	24.75	38.45	PASS
Band26	10MHz	16QAM	26915	1RB#24	22.70	24.55	38.45	PASS
Band26	10MHz	16QAM	26915	1RB#49	22.79	24.64	38.45	PASS
Band26	10MHz	16QAM	26915	25RB#0	21.31	23.16	38.45	PASS
Band26	10MHz	16QAM	26915	25RB#12	21.39	23.24	38.45	PASS
Band26	10MHz	16QAM	26915	25RB#25	21.28	23.13	38.45	PASS
Band26	10MHz	16QAM	26915	50RB#0	21.43	23.28	38.45	PASS
Band26	10MHz	16QAM	26990	1RB#0	23.10	24.95	38.45	PASS
Band26	10MHz	16QAM	26990	1RB#24	22.69	24.54	38.45	PASS
Band26	10MHz	16QAM	26990	1RB#49	23.33	25.18	38.45	PASS
Band26	10MHz	16QAM	26990	25RB#0	21.56	23.41	38.45	PASS
Band26	10MHz	16QAM	26990	25RB#12	21.50	23.35	38.45	PASS
Band26	10MHz	16QAM	26990	25RB#25	21.62	23.47	38.45	PASS
Band26	10MHz	16QAM	26990	50RB#0	21.53	23.38	38.45	PASS
Band26	15MHz	QPSK	26865	1RB#0	23.56	25.41	38.45	PASS

Band26	15MHz	QPSK	26865	1RB#38	23.50	25.35	38.45	PASS
Band26	15MHz	QPSK	26865	1RB#74	23.33	25.18	38.45	PASS
Band26	15MHz	QPSK	26865	36RB#0	22.52	24.37	38.45	PASS
Band26	15MHz	QPSK	26865	36RB#18	22.41	24.26	38.45	PASS
Band26	15MHz	QPSK	26865	36RB#39	22.27	24.12	38.45	PASS
Band26	15MHz	QPSK	26865	75RB#0	22.32	24.17	38.45	PASS
Band26	15MHz	QPSK	26915	1RB#0	23.62	25.47	38.45	PASS
Band26	15MHz	QPSK	26915	1RB#38	23.98	25.83	38.45	PASS
Band26	15MHz	QPSK	26915	1RB#74	22.90	24.75	38.45	PASS
Band26	15MHz	QPSK	26915	36RB#0	22.73	24.58	38.45	PASS
Band26	15MHz	QPSK	26915	36RB#18	22.75	24.60	38.45	PASS
Band26	15MHz	QPSK	26915	36RB#39	22.33	24.18	38.45	PASS
Band26	15MHz	QPSK	26915	75RB#0	22.42	24.27	38.45	PASS
Band26	15MHz	QPSK	26965	1RB#0	23.89	25.74	38.45	PASS
Band26	15MHz	QPSK	26965	1RB#38	23.48	25.33	38.45	PASS
Band26	15MHz	QPSK	26965	1RB#74	23.23	25.08	38.45	PASS
Band26	15MHz	QPSK	26965	36RB#0	22.91	24.76	38.45	PASS
Band26	15MHz	QPSK	26965	36RB#18	22.57	24.42	38.45	PASS
Band26	15MHz	QPSK	26965	36RB#39	22.45	24.30	38.45	PASS
Band26	15MHz	QPSK	26965	75RB#0	22.68	24.53	38.45	PASS
Band26	15MHz	16QAM	26865	1RB#0	22.74	24.59	38.45	PASS
Band26	15MHz	16QAM	26865	1RB#38	22.51	24.36	38.45	PASS
Band26	15MHz	16QAM	26865	1RB#74	22.88	24.73	38.45	PASS
Band26	15MHz	16QAM	26865	36RB#0	21.53	23.38	38.45	PASS
Band26	15MHz	16QAM	26865	36RB#18	21.32	23.17	38.45	PASS
Band26	15MHz	16QAM	26865	36RB#39	21.15	23.00	38.45	PASS
Band26	15MHz	16QAM	26865	75RB#0	21.31	23.16	38.45	PASS
Band26	15MHz	16QAM	26915	1RB#0	22.77	24.62	38.45	PASS
Band26	15MHz	16QAM	26915	1RB#38	22.56	24.41	38.45	PASS
Band26	15MHz	16QAM	26915	1RB#74	23.07	24.92	38.45	PASS
Band26	15MHz	16QAM	26915	36RB#0	21.82	23.67	38.45	PASS
Band26	15MHz	16QAM	26915	36RB#18	21.56	23.41	38.45	PASS
Band26	15MHz	16QAM	26915	36RB#39	21.21	23.06	38.45	PASS
Band26	15MHz	16QAM	26915	75RB#0	21.49	23.34	38.45	PASS
Band26	15MHz	16QAM	26965	1RB#0	23.12	24.97	38.45	PASS
Band26	15MHz	16QAM	26965	1RB#38	22.58	24.43	38.45	PASS
Band26	15MHz	16QAM	26965	1RB#74	23.01	24.86	38.45	PASS
Band26	15MHz	16QAM	26965	36RB#0	21.92	23.77	38.45	PASS
Band26	15MHz	16QAM	26965	36RB#18	21.65	23.50	38.45	PASS
Band26	15MHz	16QAM	26965	36RB#39	21.34	23.19	38.45	PASS
Band26	15MHz	16QAM	26965	75RB#0	21.75	23.60	38.45	PASS

Remark:

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

$$\text{ERP [dBm]} = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

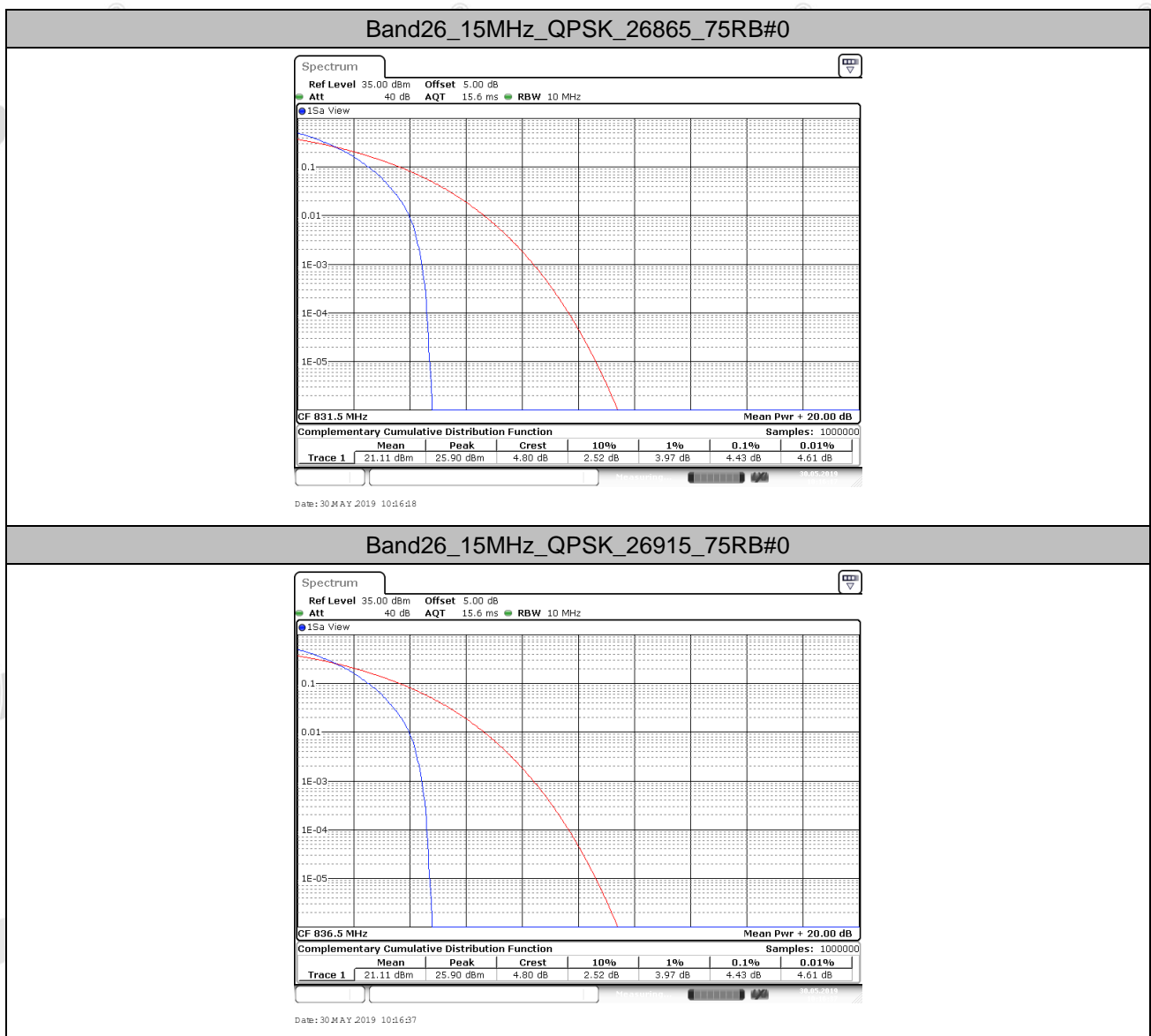
EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

4. Peak-to-Average Ratio(CCDF)

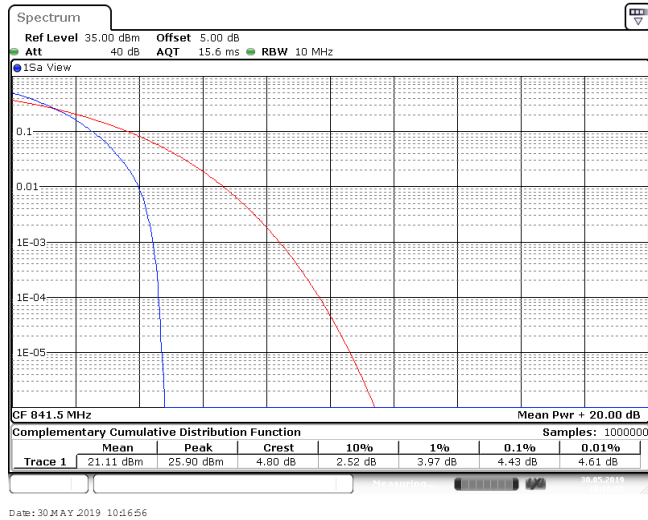
4.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band26	15MHz	QPSK	26865	75RB#0	4.43	13	PASS
Band26	15MHz	QPSK	26915	75RB#0	4.43	13	PASS
Band26	15MHz	QPSK	26965	75RB#0	4.43	13	PASS
Band26	15MHz	16QAM	26865	75RB#0	4.43	13	PASS
Band26	15MHz	16QAM	26915	75RB#0	4.43	13	PASS
Band26	15MHz	16QAM	26965	75RB#0	4.43	13	PASS

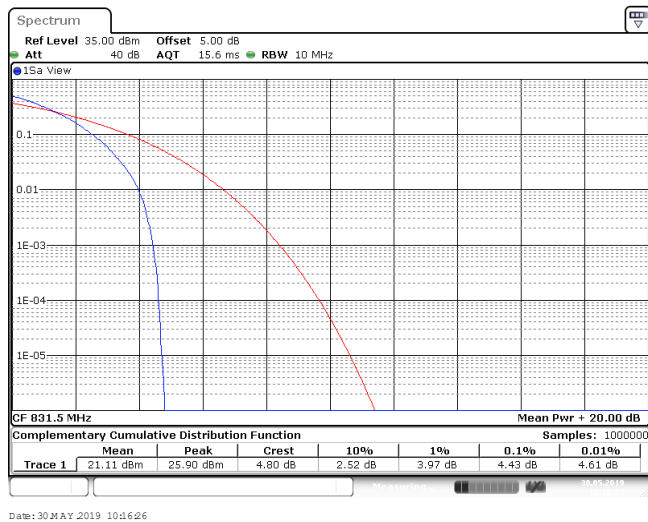
4.2. Test Plots



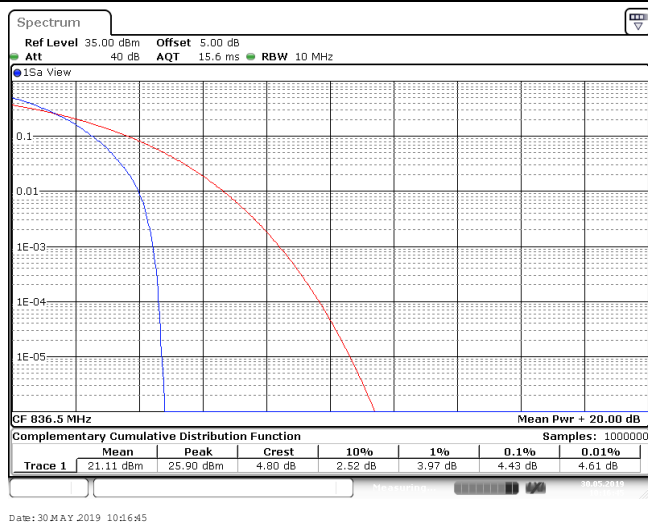
Band26_15MHz_QPSK_26965_75RB#0



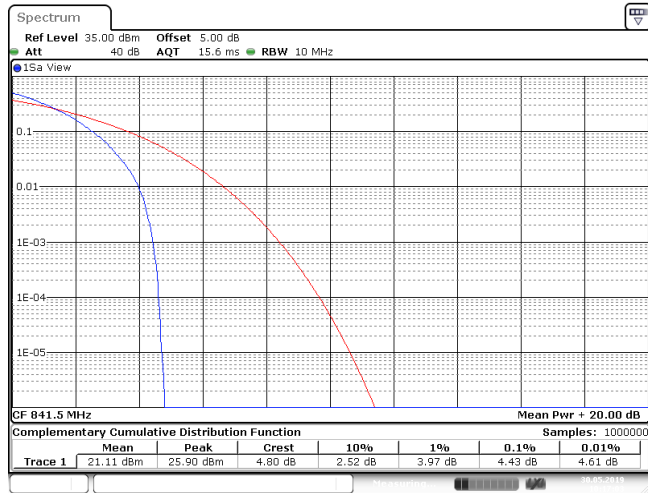
Band26_15MHz_16QAM_26865_75RB#0



Band26_15MHz_16QAM_26915_75RB#0



Band26_15MHz_16QAM_26965_75RB#0



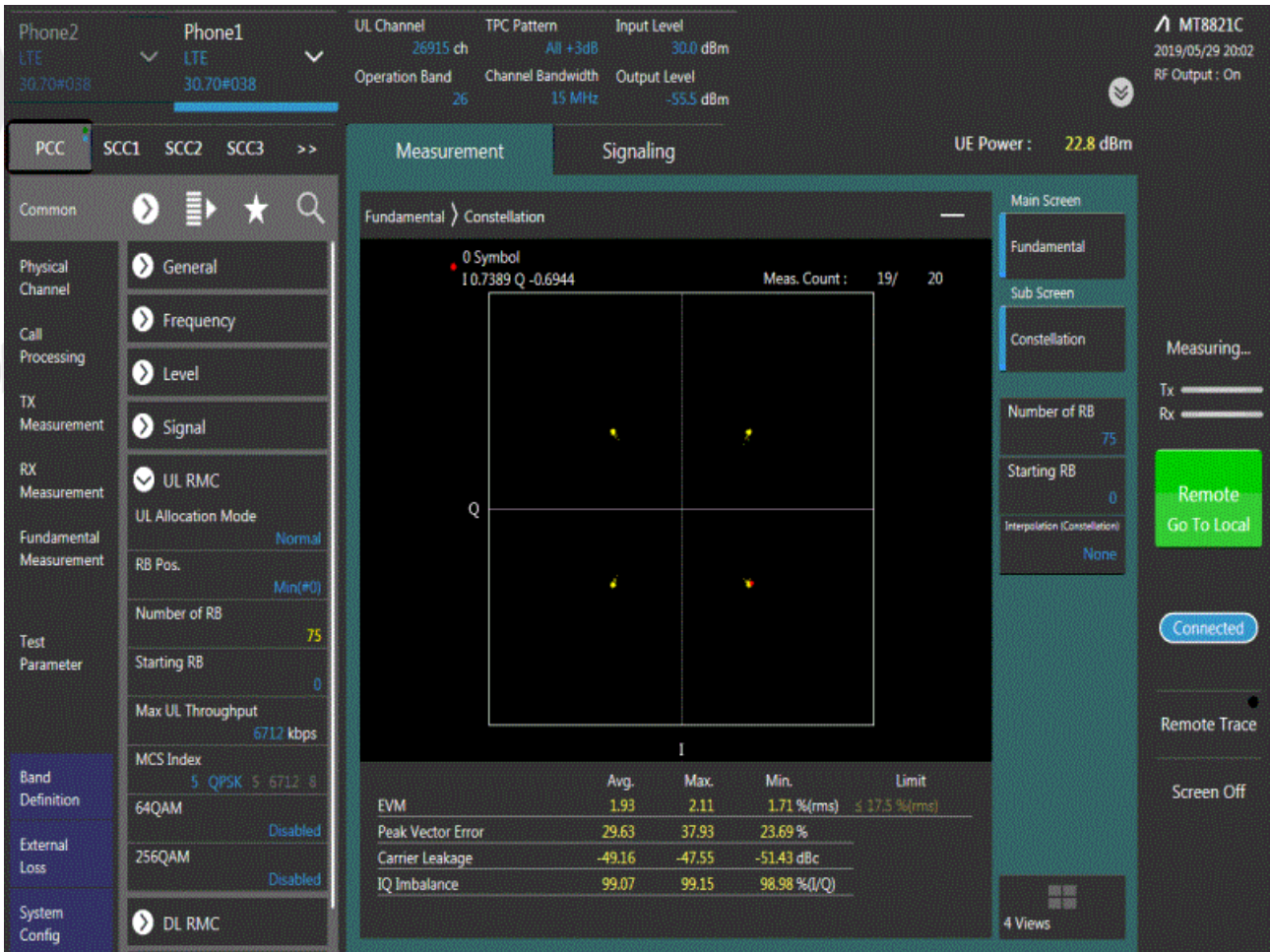
Date: 30 MAY 2019 10:17:04

5. Modulation Characteristics

5.1. Test BAND = LTE Band 26

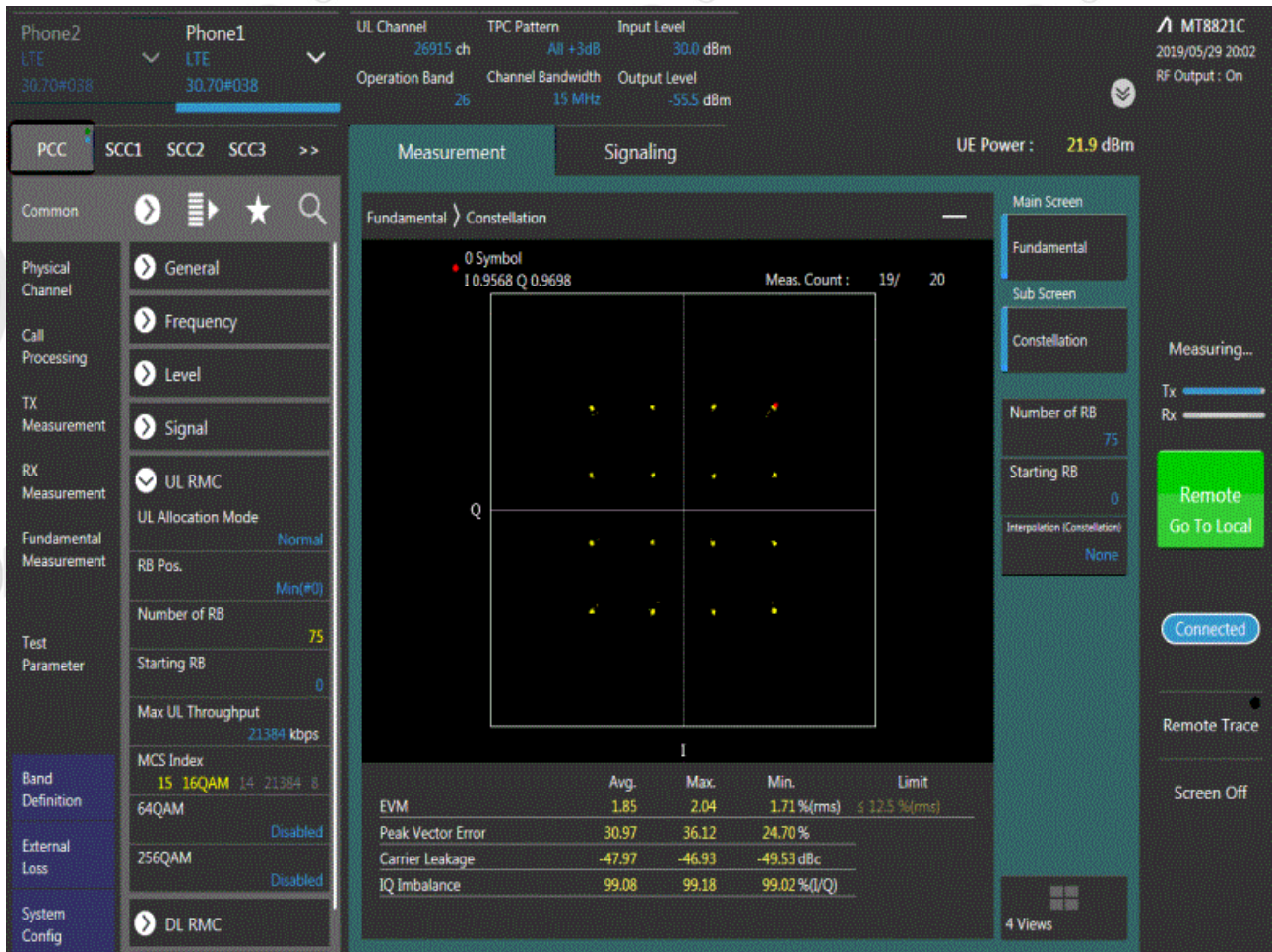
5.2. Test Mode = LTE /TM1 15MHz

5.2.1. Test Channel = MCH



5.3. Test Mode = LTE /TM2 15MHz

5.3.1. Test Channel = MCH

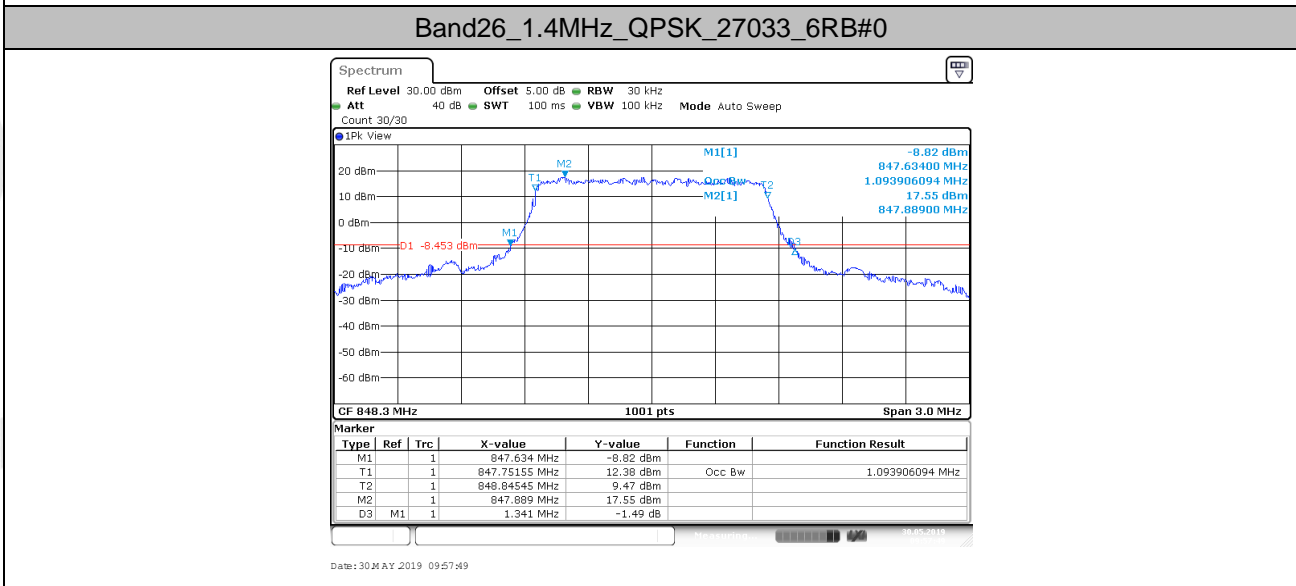
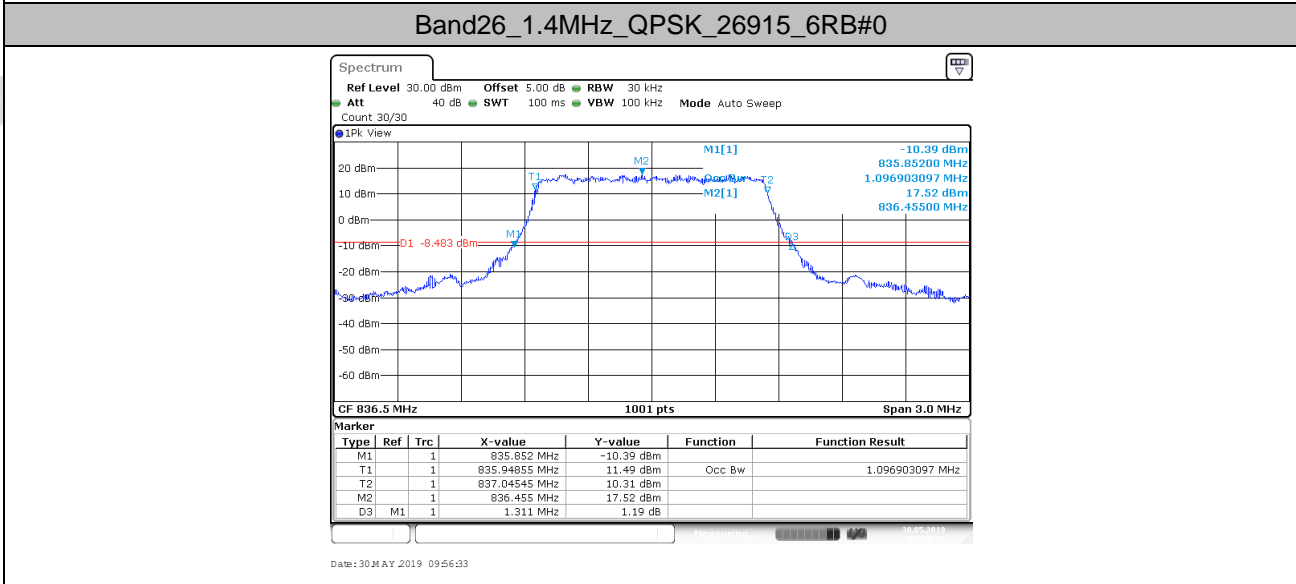
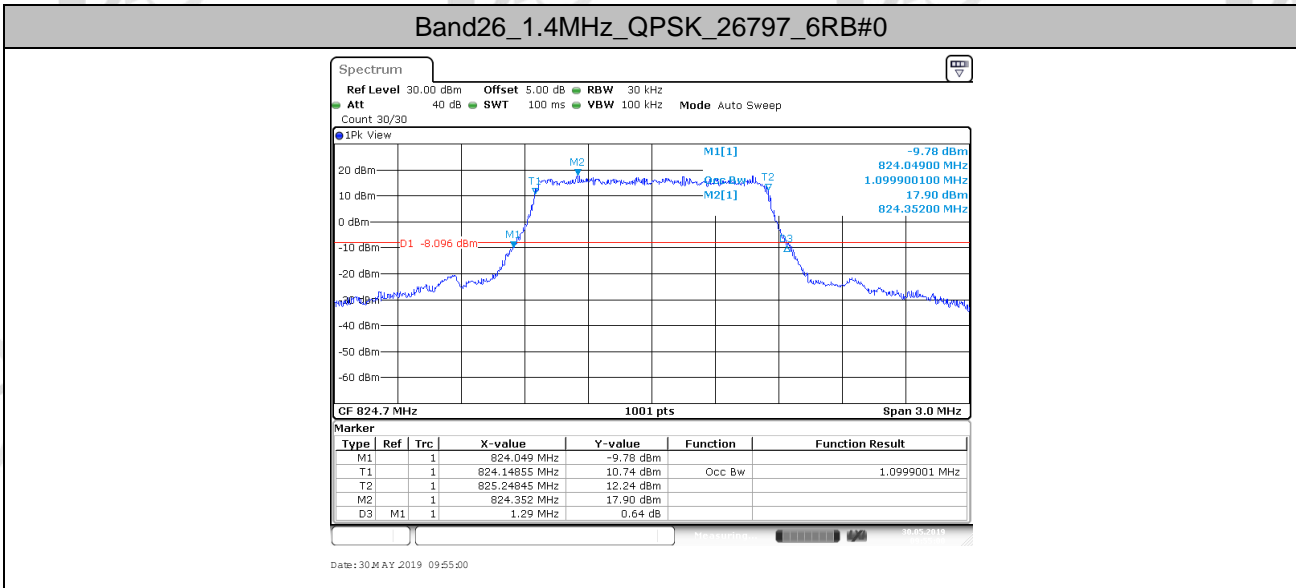


6. 26dB Bandwidth and Occupied Bandwidth

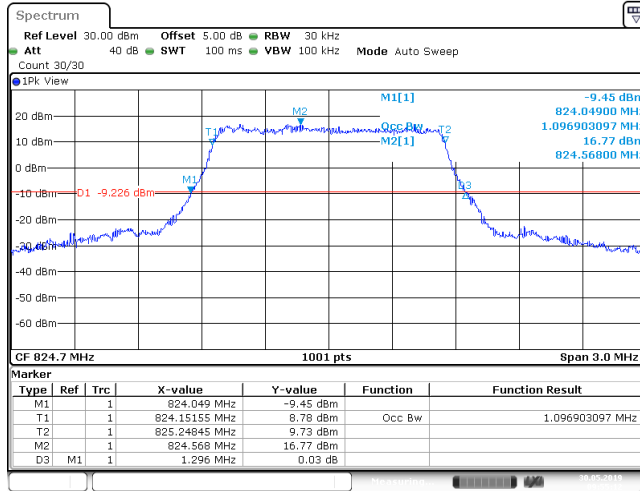
6.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band26	1.4MHz	QPSK	26797	6RB#0	1.100	1.290	PASS
Band26	1.4MHz	QPSK	26915	6RB#0	1.097	1.311	PASS
Band26	1.4MHz	QPSK	27033	6RB#0	1.094	1.341	PASS
Band26	1.4MHz	16QAM	26797	6RB#0	1.097	1.296	PASS
Band26	1.4MHz	16QAM	26915	6RB#0	1.103	1.317	PASS
Band26	1.4MHz	16QAM	27033	6RB#0	1.100	1.311	PASS
Band26	3MHz	QPSK	26805	15RB#0	2.703	2.976	PASS
Band26	3MHz	QPSK	26915	15RB#0	2.703	2.994	PASS
Band26	3MHz	QPSK	27025	15RB#0	2.703	2.994	PASS
Band26	3MHz	16QAM	26805	15RB#0	2.703	3.012	PASS
Band26	3MHz	16QAM	26915	15RB#0	2.691	3.000	PASS
Band26	3MHz	16QAM	27025	15RB#0	2.691	2.988	PASS
Band26	5MHz	QPSK	26815	25RB#0	4.486	4.960	PASS
Band26	5MHz	QPSK	26915	25RB#0	4.486	4.930	PASS
Band26	5MHz	QPSK	27015	25RB#0	4.466	4.930	PASS
Band26	5MHz	16QAM	26815	25RB#0	4.476	4.920	PASS
Band26	5MHz	16QAM	26915	25RB#0	4.476	4.930	PASS
Band26	5MHz	16QAM	27015	25RB#0	4.466	4.880	PASS
Band26	10MHz	QPSK	26840	50RB#0	8.931	9.840	PASS
Band26	10MHz	QPSK	26915	50RB#0	8.931	9.720	PASS
Band26	10MHz	QPSK	26990	50RB#0	8.911	9.740	PASS
Band26	10MHz	16QAM	26840	50RB#0	8.931	9.620	PASS
Band26	10MHz	16QAM	26915	50RB#0	8.911	9.660	PASS
Band26	10MHz	16QAM	26990	50RB#0	8.911	9.760	PASS
Band26	15MHz	QPSK	26865	75RB#0	13.457	14.790	PASS
Band26	15MHz	QPSK	26915	75RB#0	13.427	14.760	PASS
Band26	15MHz	QPSK	26965	75RB#0	13.427	14.790	PASS
Band26	15MHz	16QAM	26865	75RB#0	13.457	14.790	PASS
Band26	15MHz	16QAM	26915	75RB#0	13.457	14.820	PASS
Band26	15MHz	16QAM	26965	75RB#0	13.457	14.730	PASS

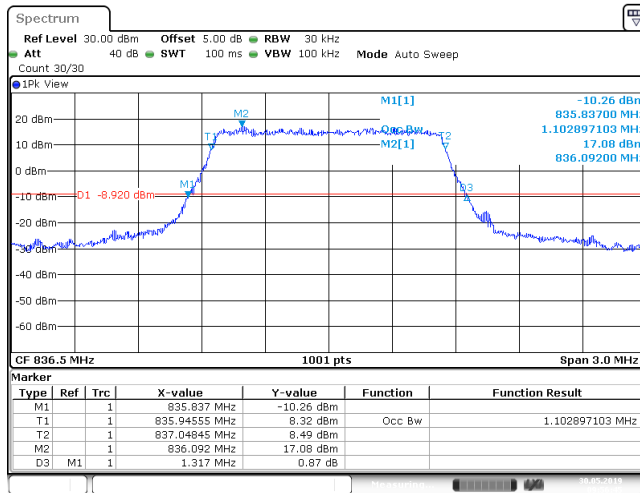
6.2. Test Plots



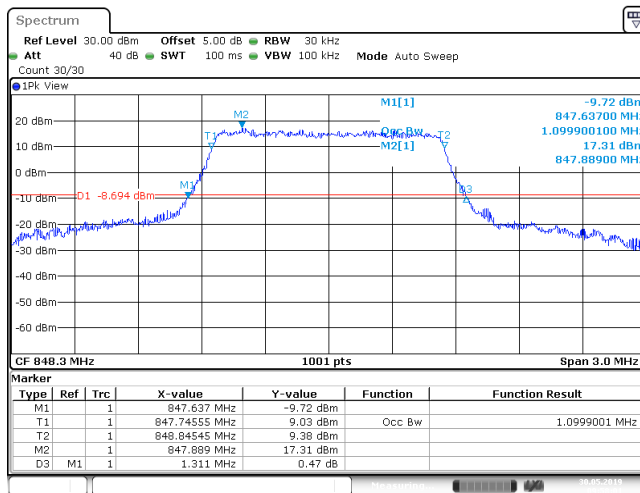
Band26_1.4MHz_16QAM_26797_6RB#0



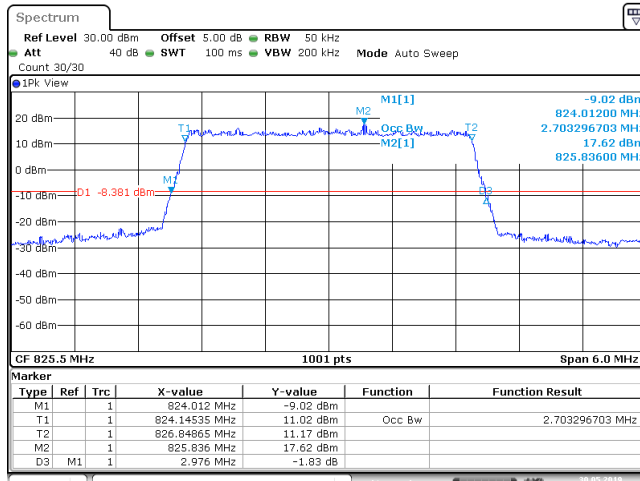
Band26_1.4MHz_16QAM_26915_6RB#0



Band26_1.4MHz_16QAM_27033_6RB#0

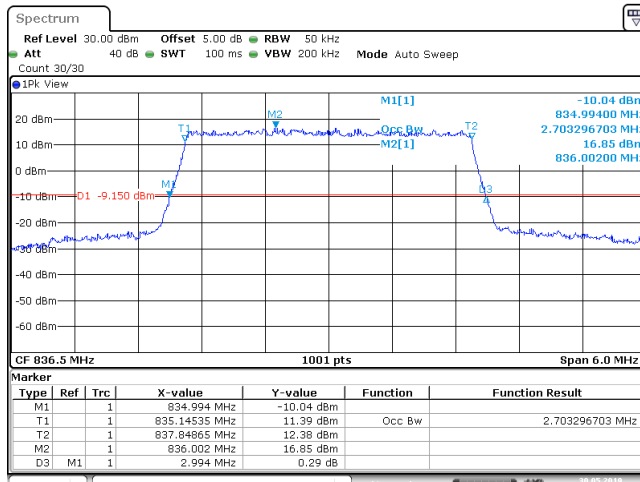


Band26_3MHz_QPSK_26805_15RB#0



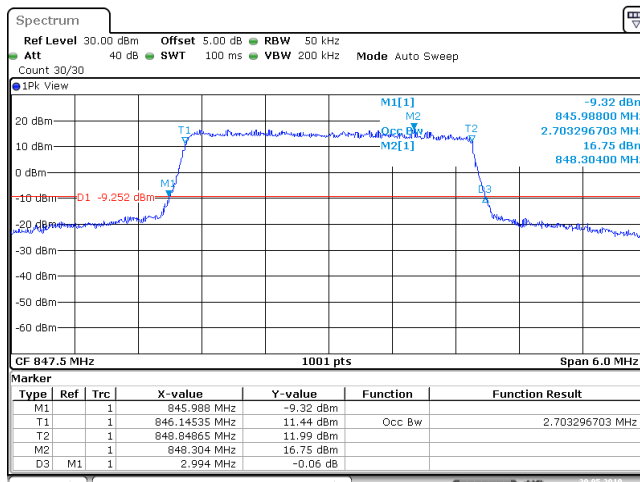
Date: 30 MAY 2019 09:58:44

Band26_3MHz_QPSK_26915_15RB#0



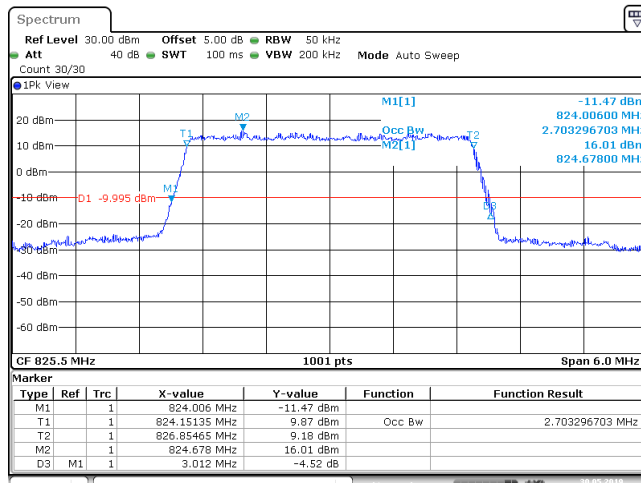
Date: 30 MAY 2019 09:59:11

Band26_3MHz_QPSK_27025_15RB#0

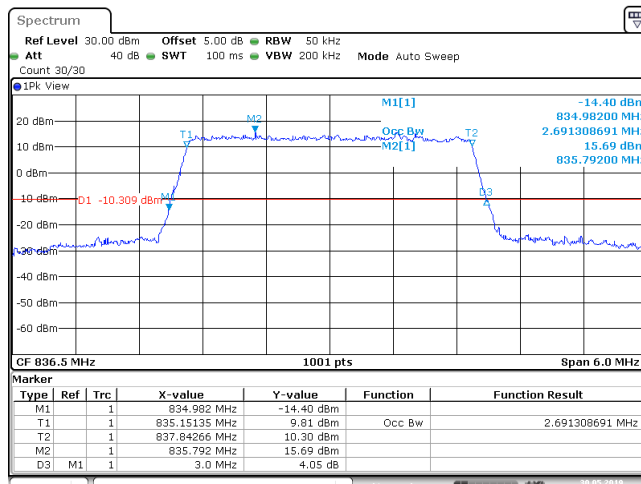


Date: 30 MAY 2019 09:59:39

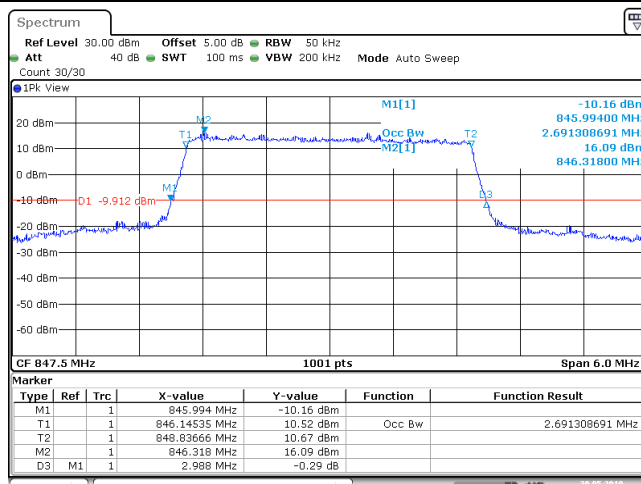
Band26_3MHz_16QAM_26805_15RB#0



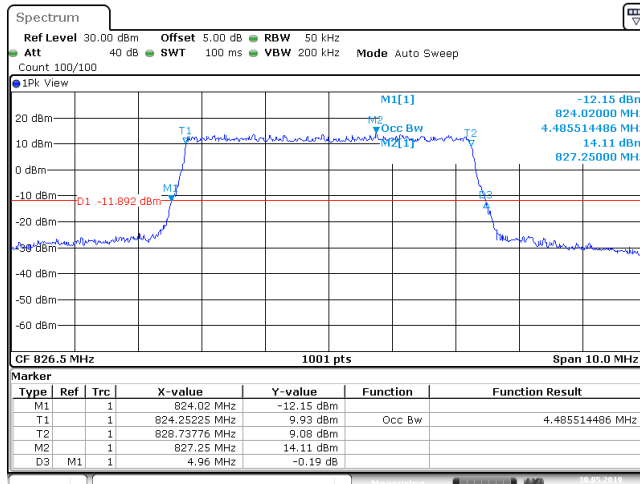
Band26_3MHz_16QAM_26915_15RB#0



Band26_3MHz_16QAM_27025_15RB#0

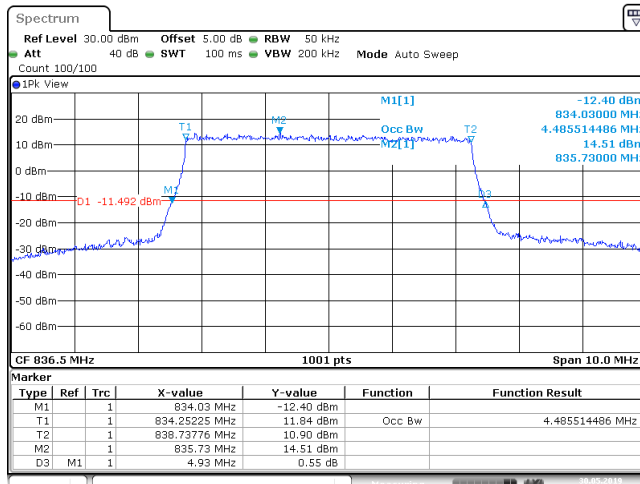


Band26_5MHz_QPSK_26815_25RB#0



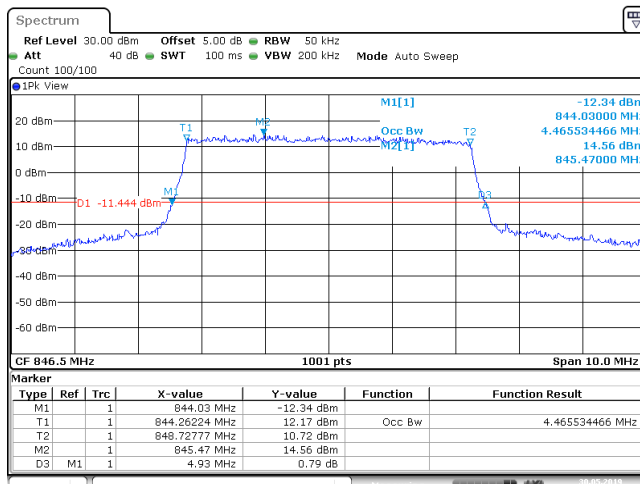
Date: 30 MAY 2019 10:00:49

Band26_5MHz_QPSK_26915_25RB#0



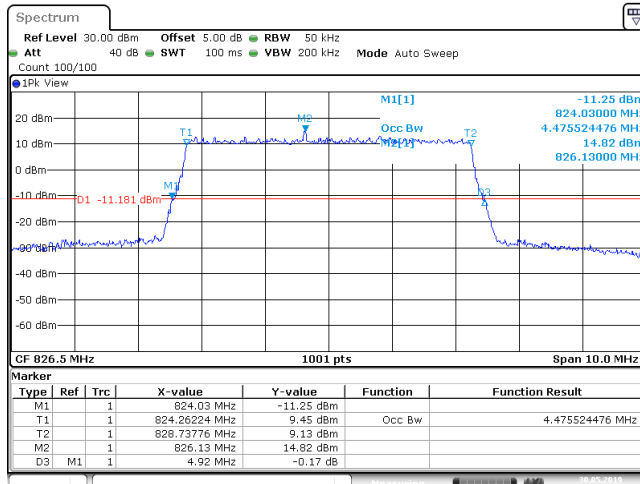
Date: 30 MAY 2019 10:01:42

Band26_5MHz_QPSK_27015_25RB#0



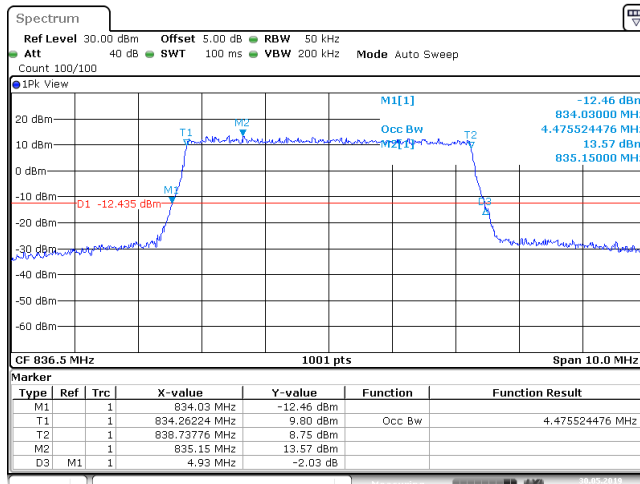
Date: 30 MAY 2019 10:02:24

Band26_5MHz_16QAM_26815_25RB#0



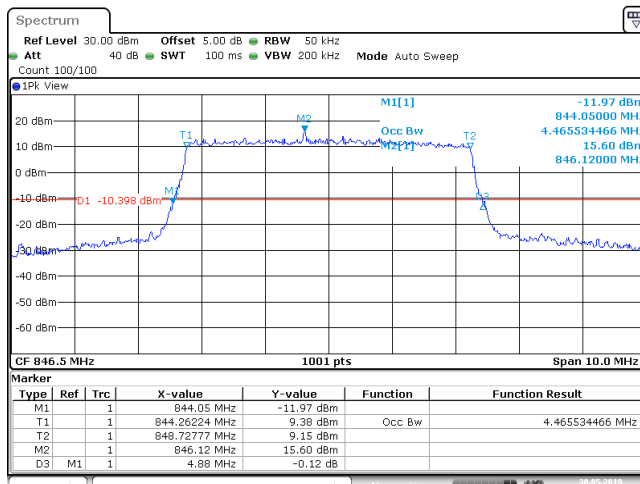
Date: 30 MAY 2019 10:01:09

Band26_5MHz_16QAM_26915_25RB#0



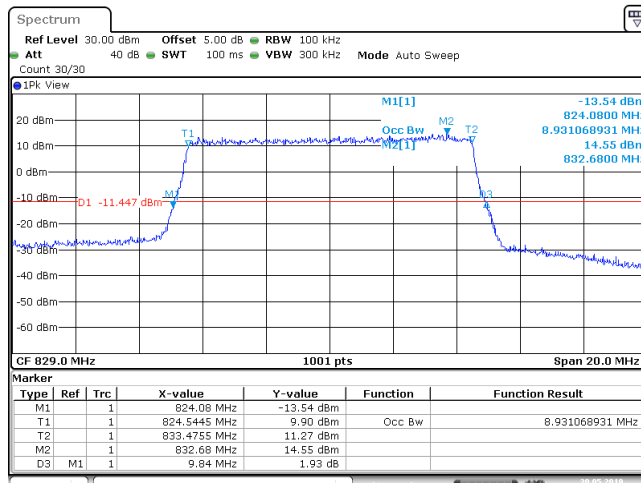
Date: 30 MAY 2019 10:02:01

Band26_5MHz_16QAM_27015_25RB#0



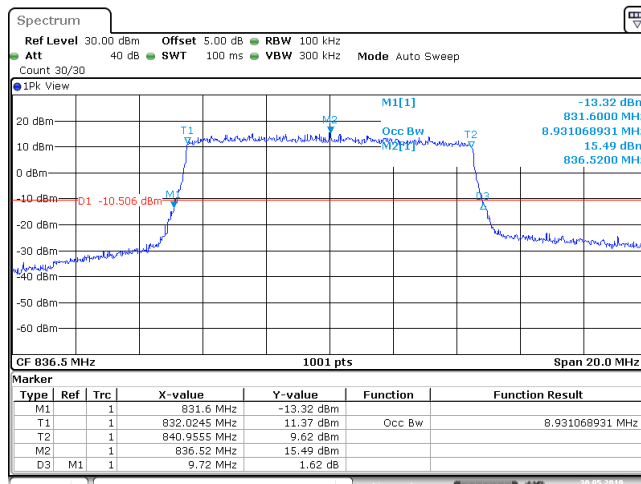
Date: 30 MAY 2019 10:02:43

Band26_10MHz_QPSK_26840_50RB#0



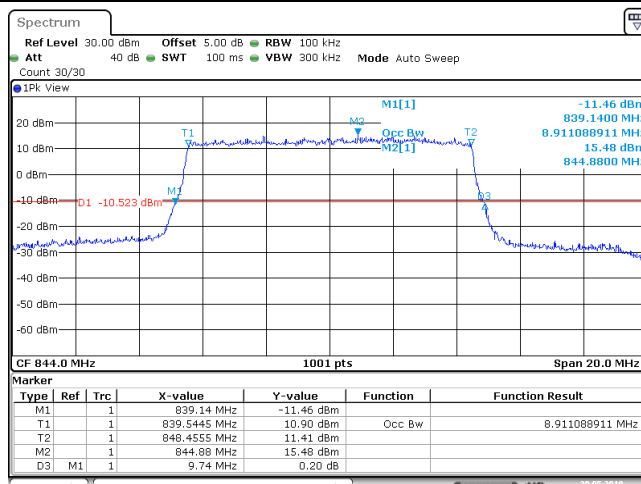
Date: 30 MAY 2019 10:03:40

Band26_10MHz_QPSK_26915_50RB#0



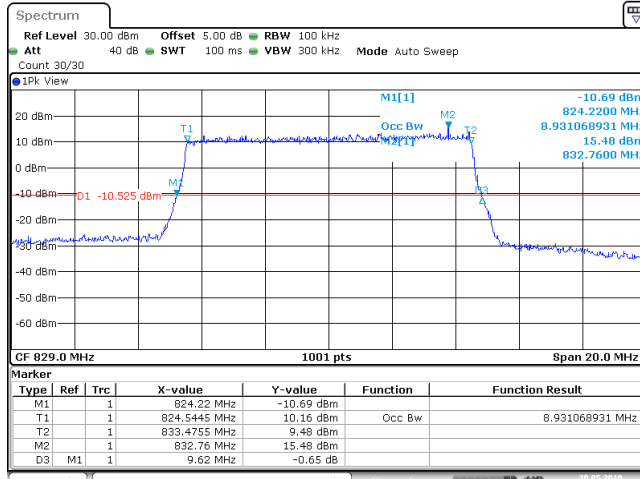
Date: 30 MAY 2019 10:04:08

Band26_10MHz_QPSK_26990_50RB#0



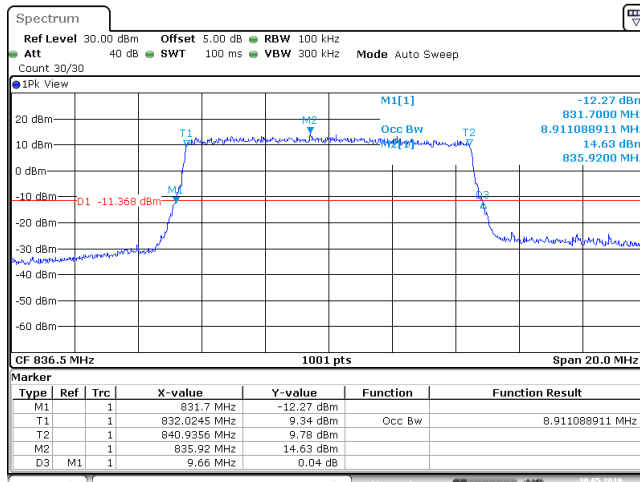
Date: 30 MAY 2019 10:04:36

Band26_10MHz_16QAM_26840_50RB#0



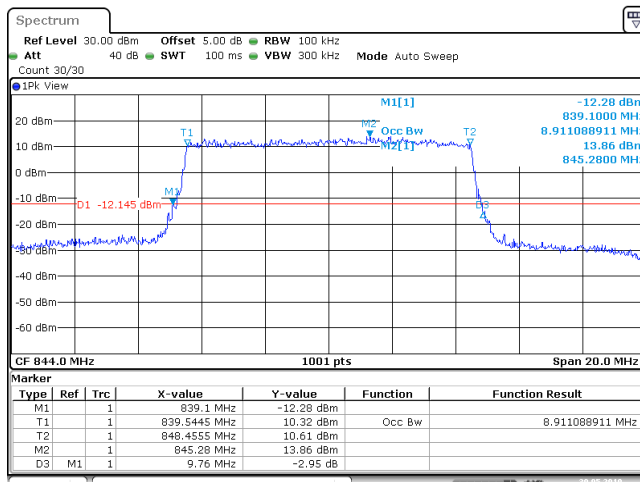
Date: 30 MAY 2019 10:03:52

Band26_10MHz_16QAM_26915_50RB#0



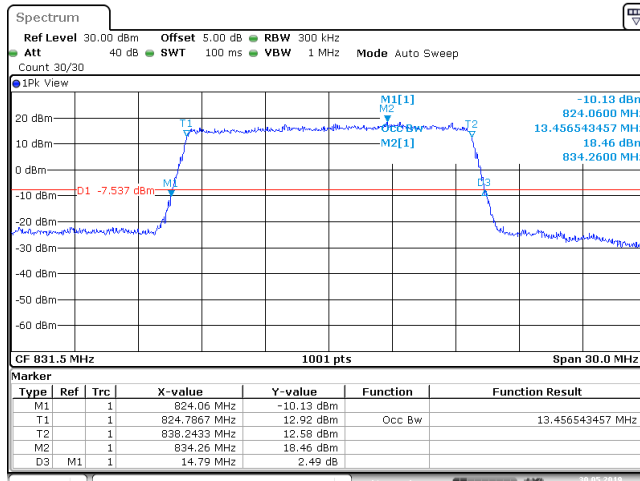
Date: 30 MAY 2019 10:04:21

Band26_10MHz_16QAM_26990_50RB#0



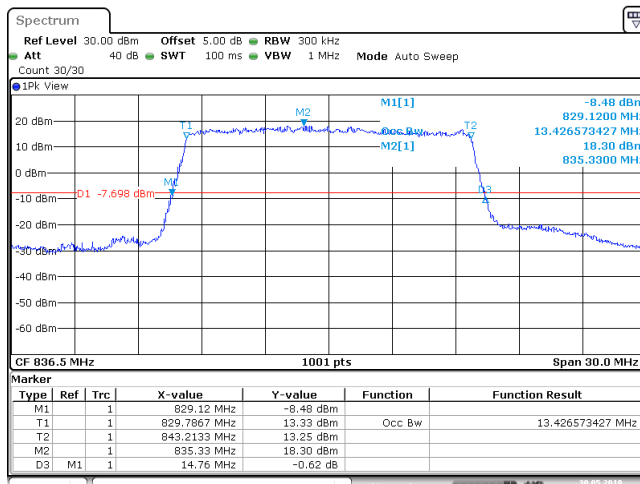
Date: 30 MAY 2019 10:04:49

Band26_15MHz_QPSK_26865_75RB#0



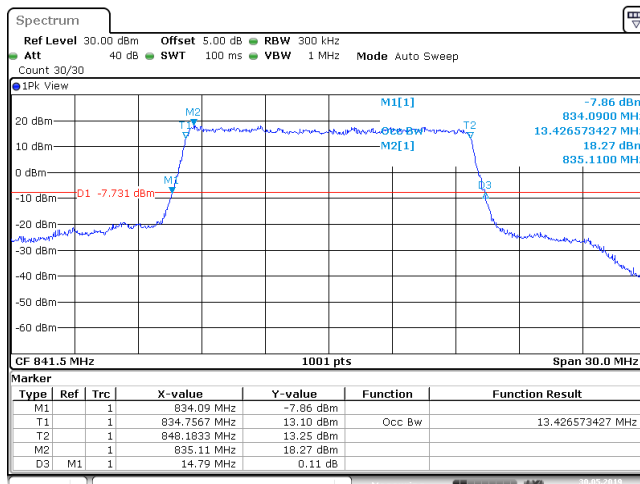
Date: 30 MAY 2019 10:05:50

Band26_15MHz_QPSK_26915_75RB#0



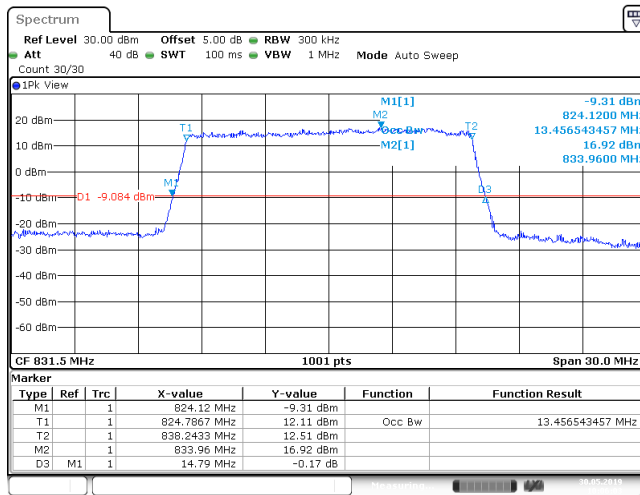
Date: 30 MAY 2019 10:06:18

Band26_15MHz_QPSK_26965_75RB#0



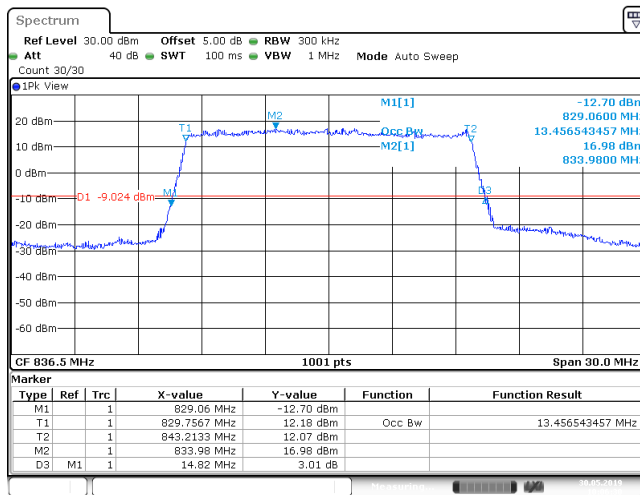
Date: 30 MAY 2019 10:06:46

Band26_15MHz_16QAM_26865_75RB#0



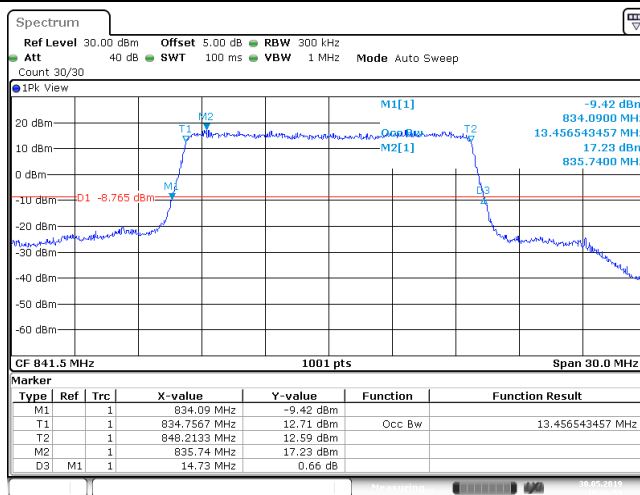
Date: 30 MAY 2019 10:06:03

Band26_15MHz_16QAM_26915_75RB#0



Date: 30 MAY 2019 10:06:31

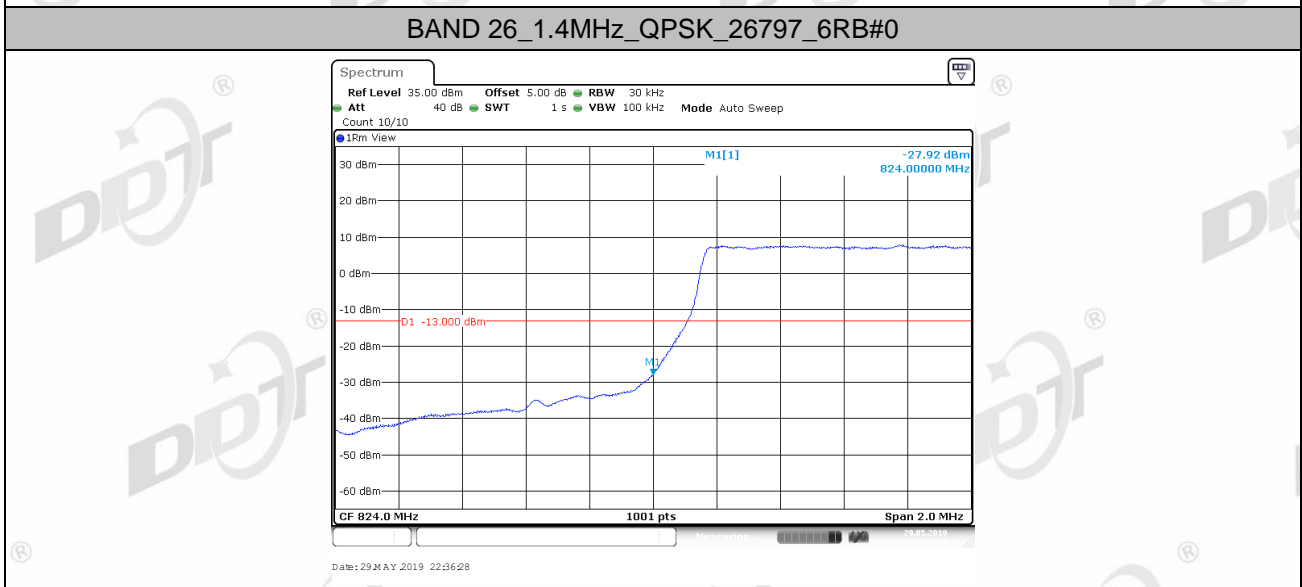
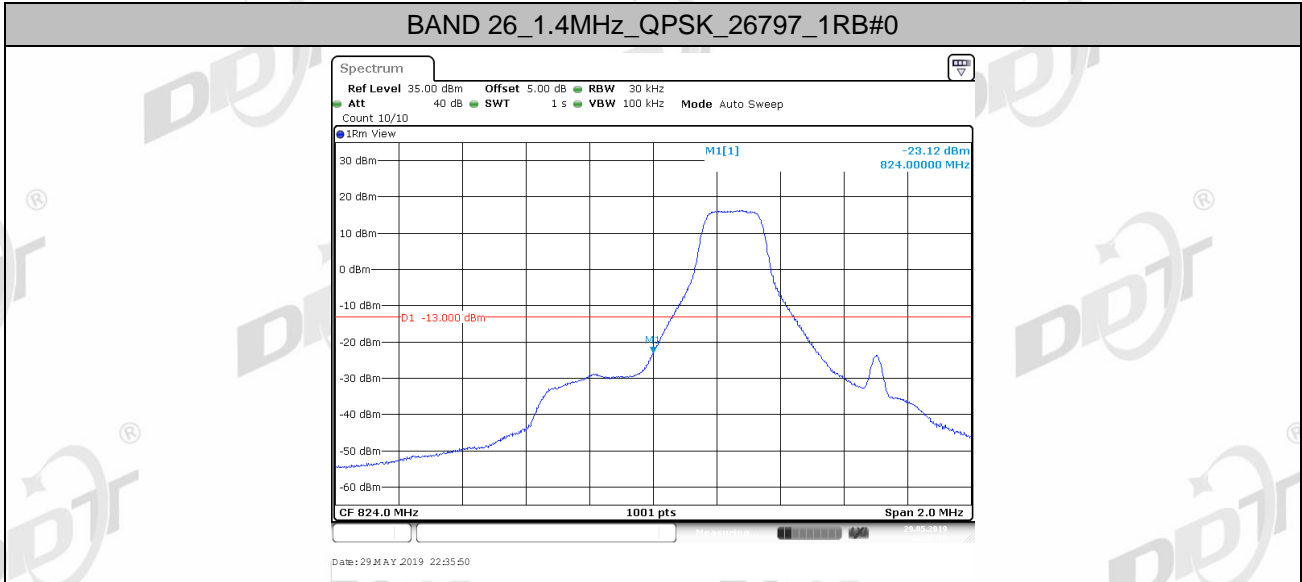
Band26_15MHz_16QAM_26965_75RB#0



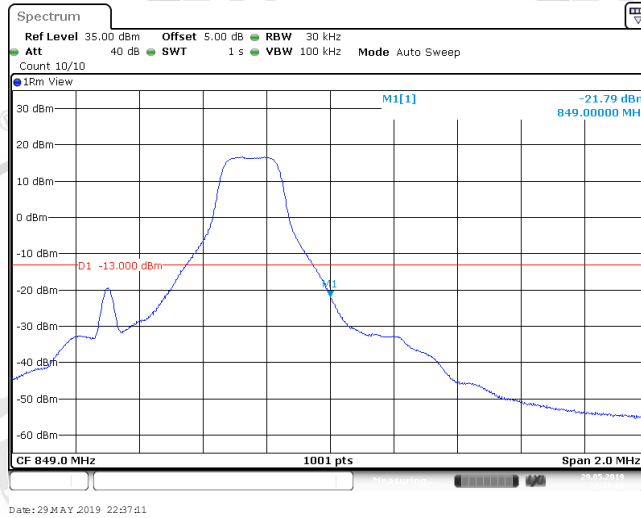
Date: 30 MAY 2019 10:06:59

7. Band Edge Compliance

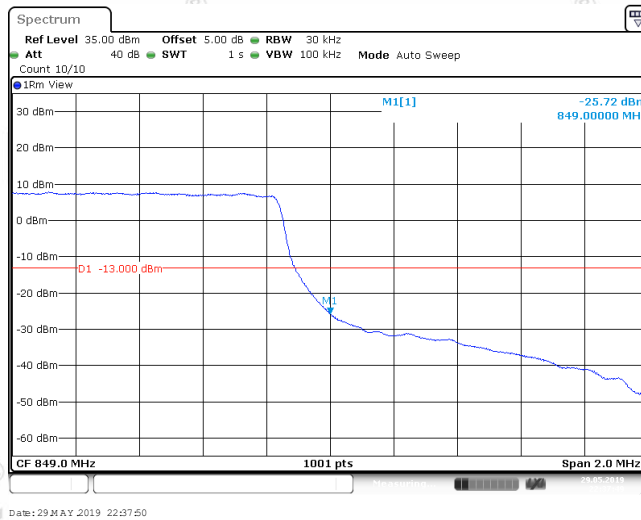
7.1. Test Plots



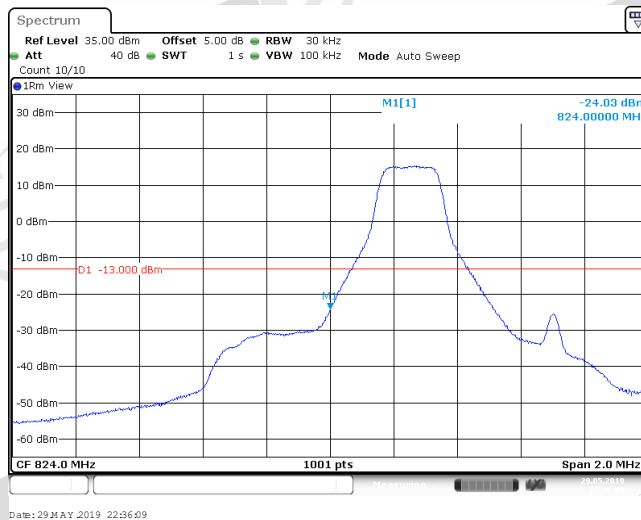
BAND 26_1.4MHz_QPSK_27033_1RB#5



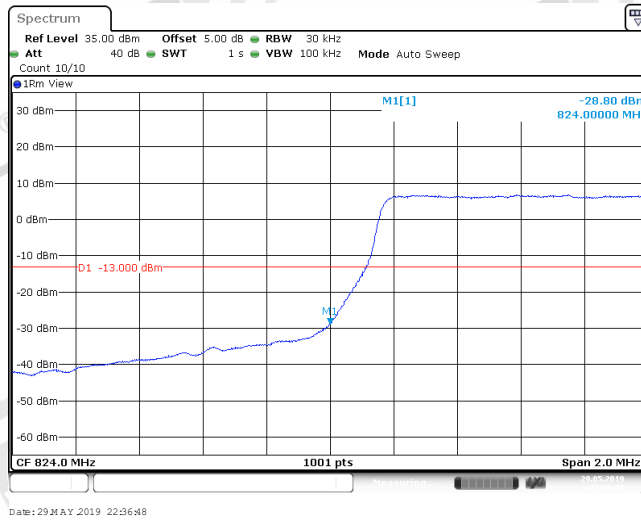
BAND 26_1.4MHz_QPSK_27033_6RB#0



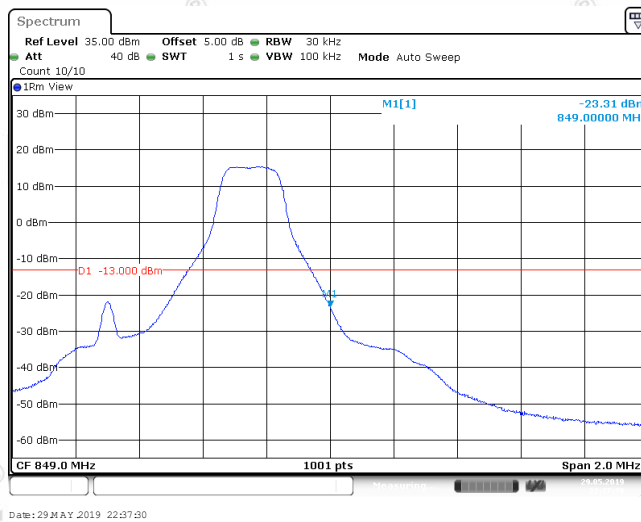
BAND 26_1.4MHz_16QAM_26797_1RB#0



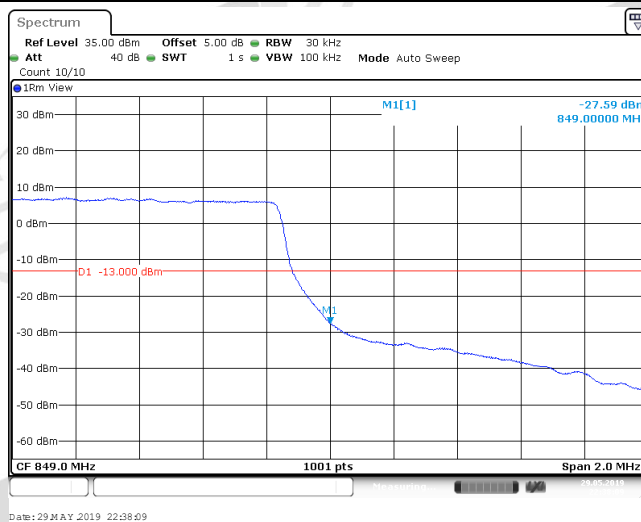
BAND 26_1.4MHz_16QAM_26797_6RB#0



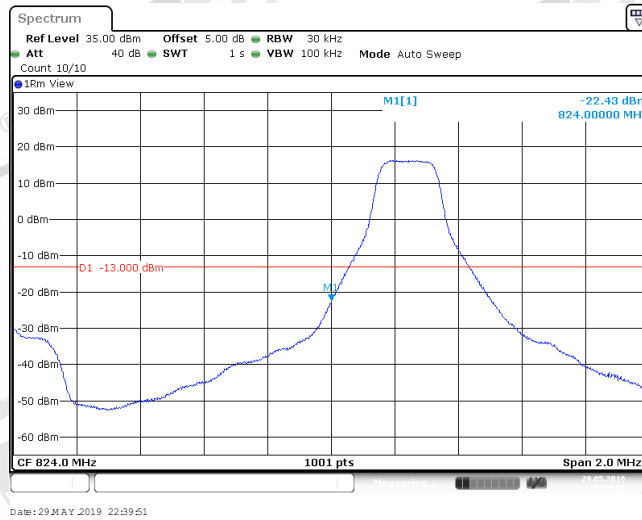
BAND 26_1.4MHz_16QAM_27033_1RB#5



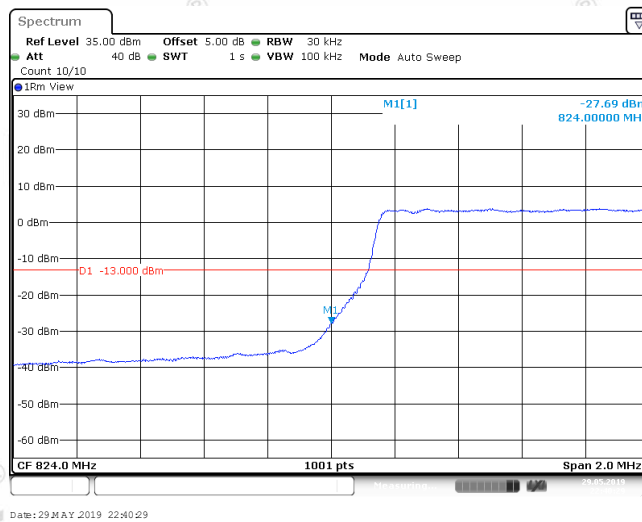
BAND 26_1.4MHz_16QAM_27033_6RB#0



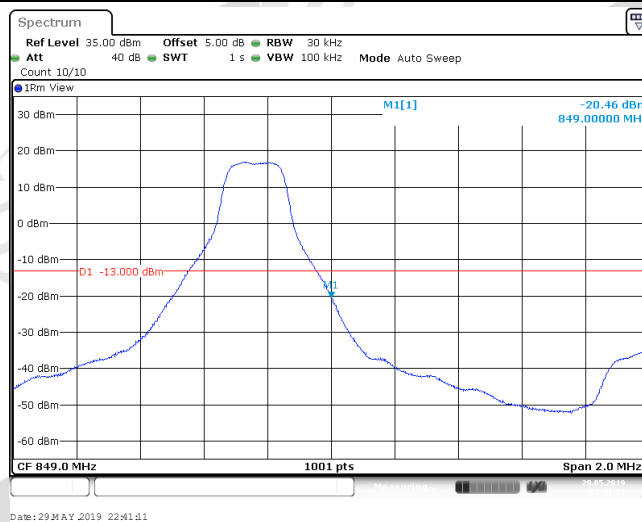
BAND 26_3MHz_QPSK_26805_1RB#0



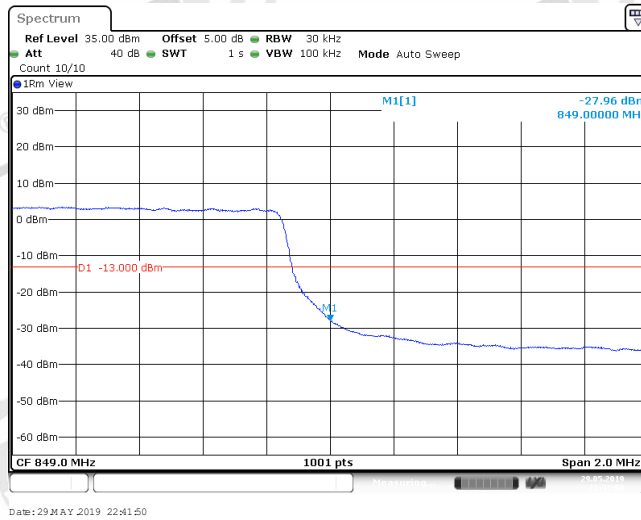
BAND 26_3MHz_QPSK_26805_15RB#0



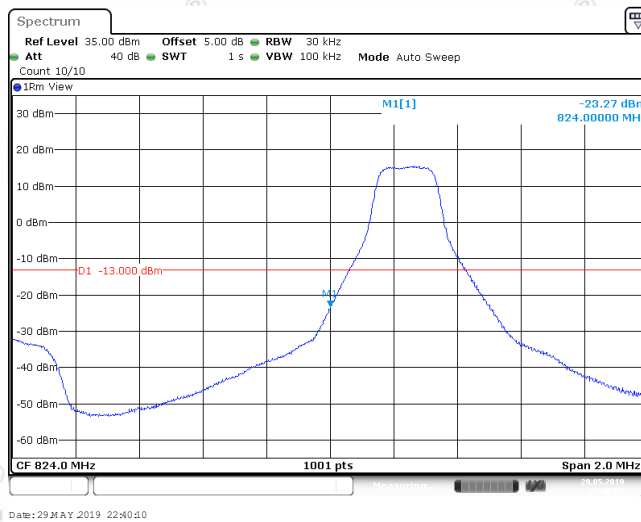
BAND 26_3MHz_QPSK_27025_1RB#14



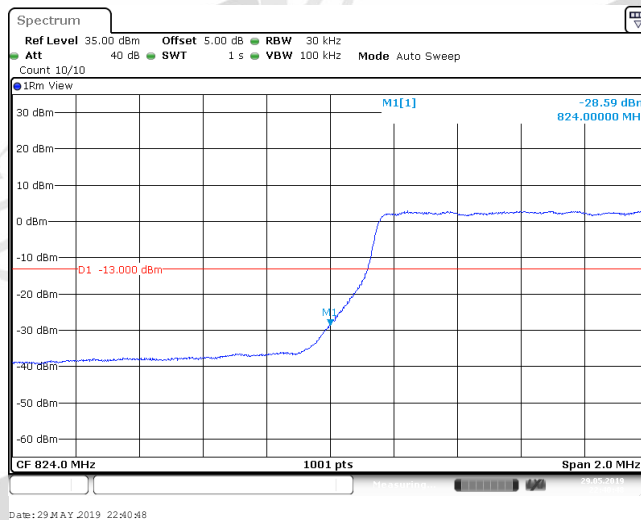
BAND 26_3MHz_QPSK_27025_15RB#0



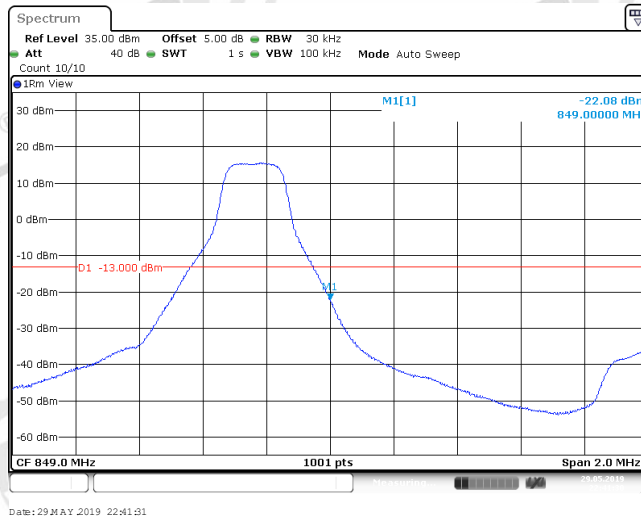
BAND 26_3MHz_16QAM_26805_1RB#0



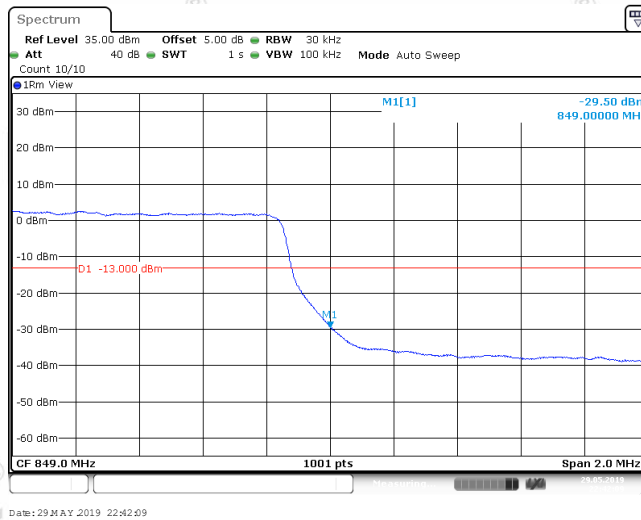
BAND 26_3MHz_16QAM_26805_15RB#0



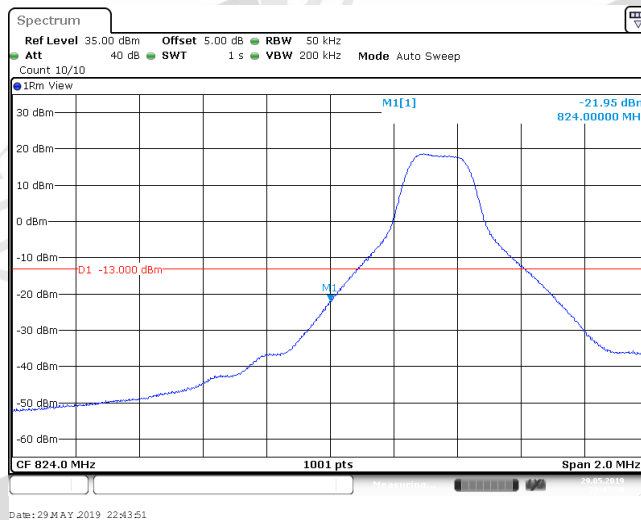
BAND 26_3MHz_16QAM_27025_1RB#14



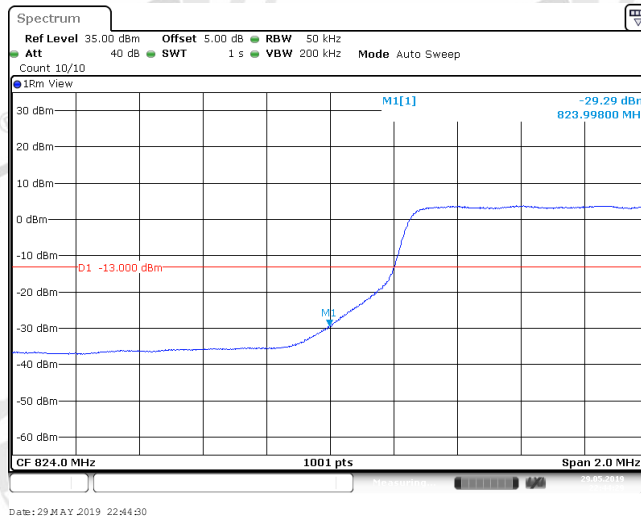
BAND 26_3MHz_16QAM_27025_15RB#0



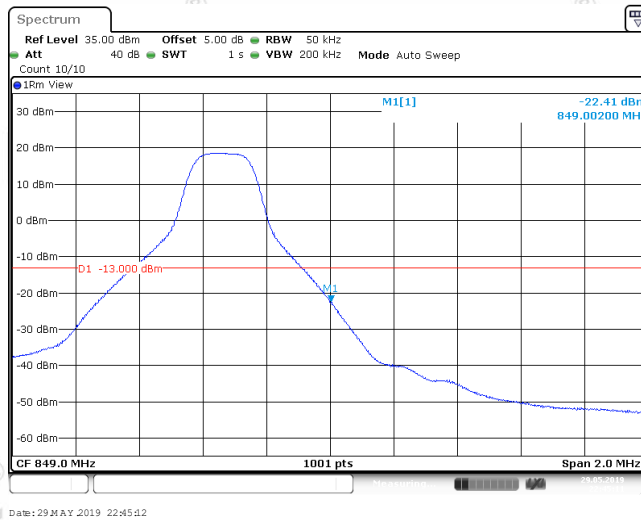
BAND 26_5MHz_QPSK_26815_1RB#0



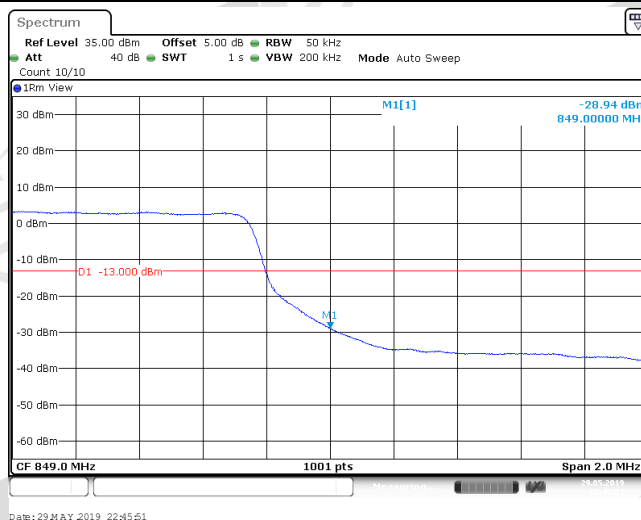
BAND 26_5MHz_QPSK_26815_25RB#0



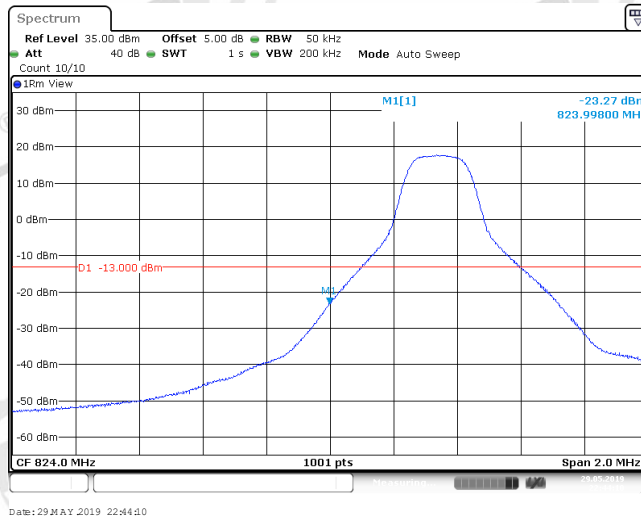
BAND 26_5MHz_QPSK_27015_1RB#24



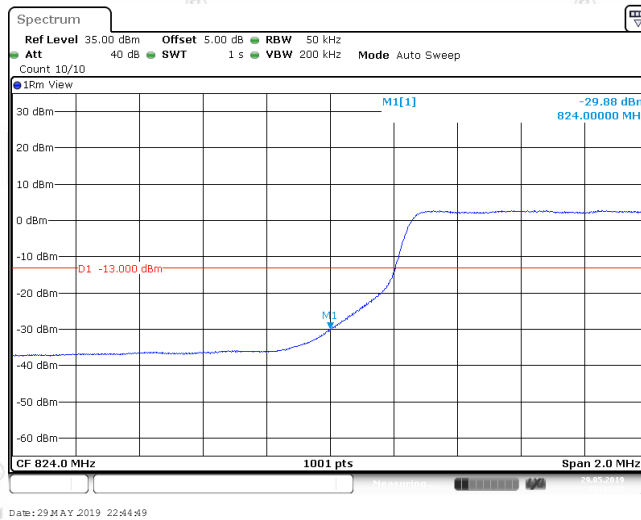
BAND 26_5MHz_QPSK_27015_25RB#0



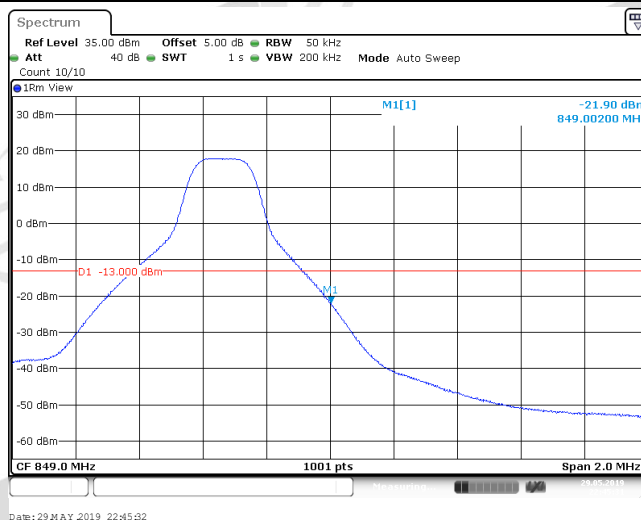
BAND 26_5MHz_16QAM_26815_1RB#0



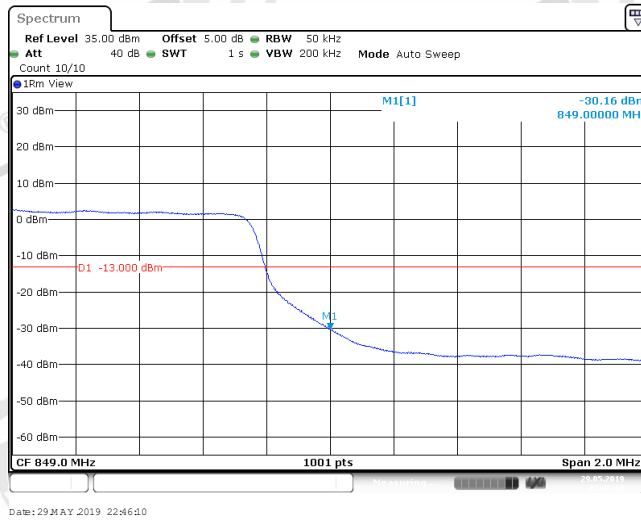
BAND 26_5MHz_16QAM_26815_25RB#0



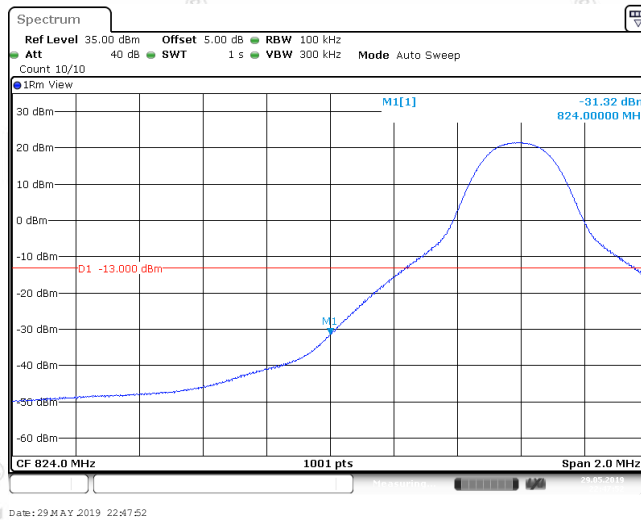
BAND 26_5MHz_16QAM_27015_1RB#24



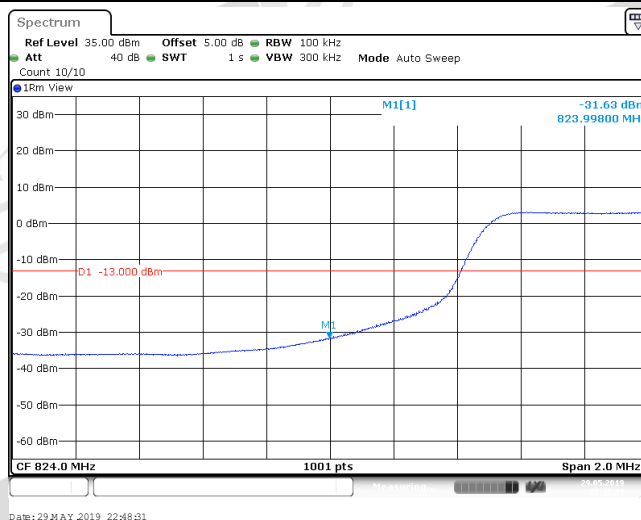
BAND 26_5MHz_16QAM_27015_25RB#0



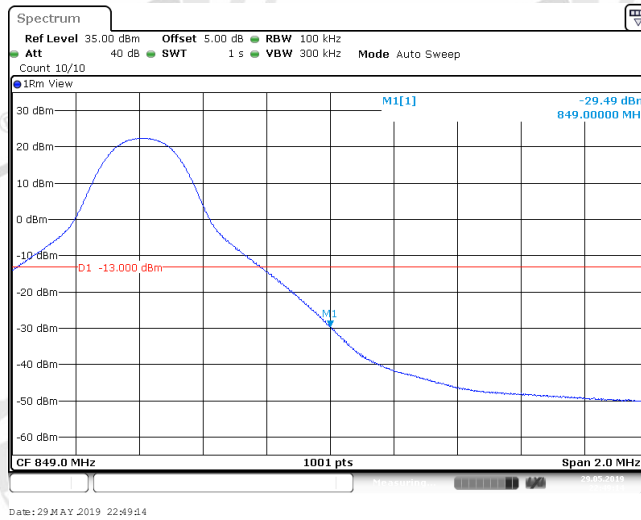
BAND 26_10MHz_QPSK_26840_1RB#0



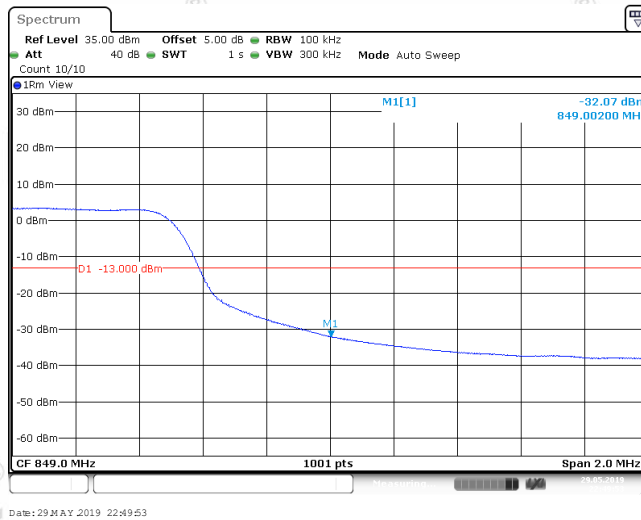
BAND 26_10MHz_QPSK_26840_50RB#0



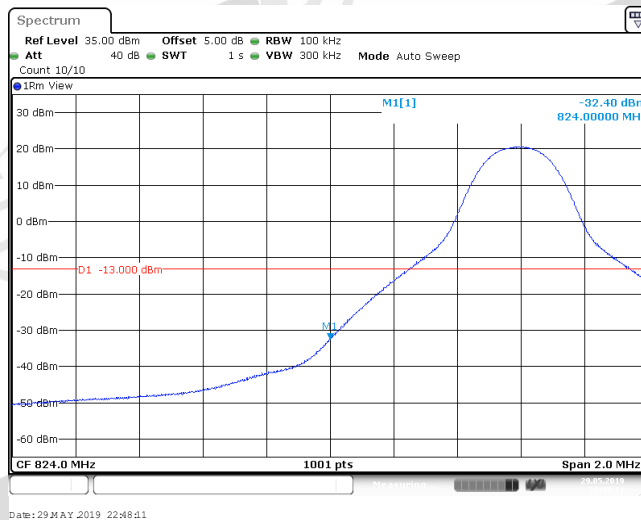
BAND 26_10MHz_QPSK_26990_1RB#49



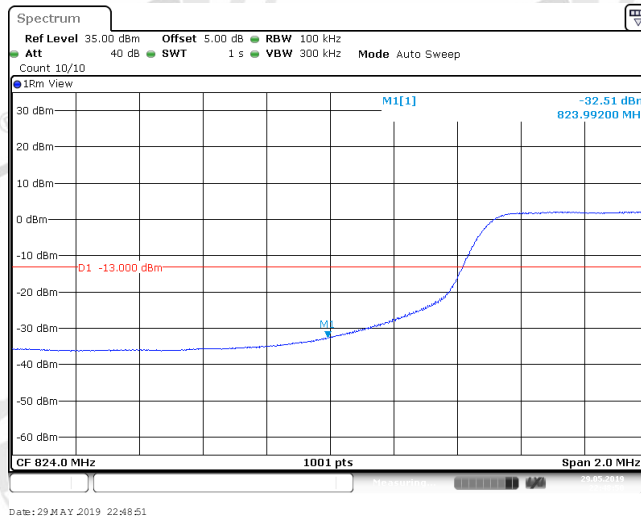
BAND 26_10MHz_QPSK_26990_50RB#0



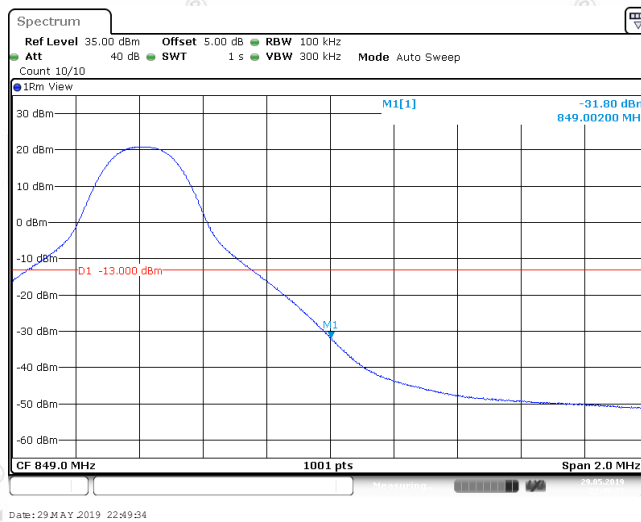
BAND 26_10MHz_16QAM_26840_1RB#0



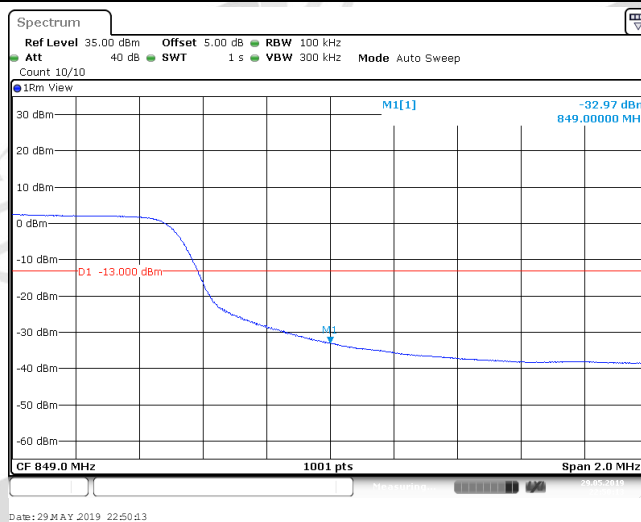
BAND 26_10MHz_16QAM_26840_50RB#0



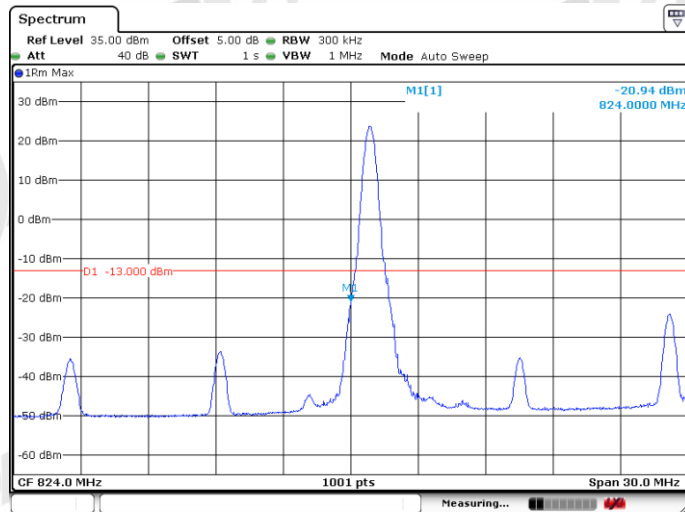
BAND 26_10MHz_16QAM_26990_1RB#49



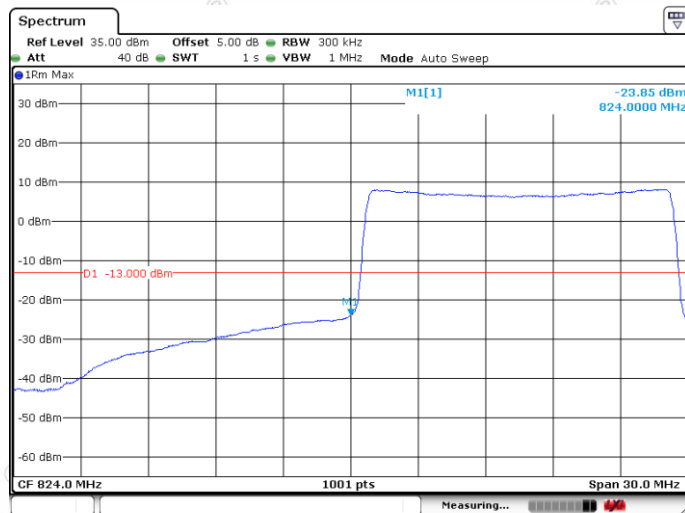
BAND 26_10MHz_16QAM_26990_50RB#0



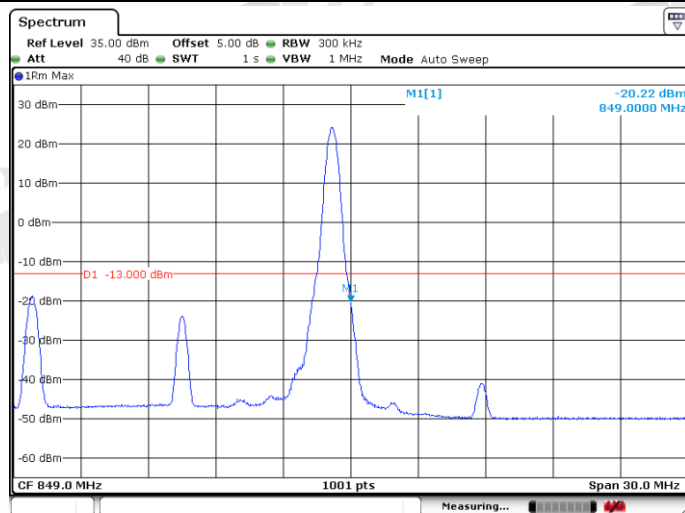
BAND 26_15MHz_QPSK_26865_1RB#0



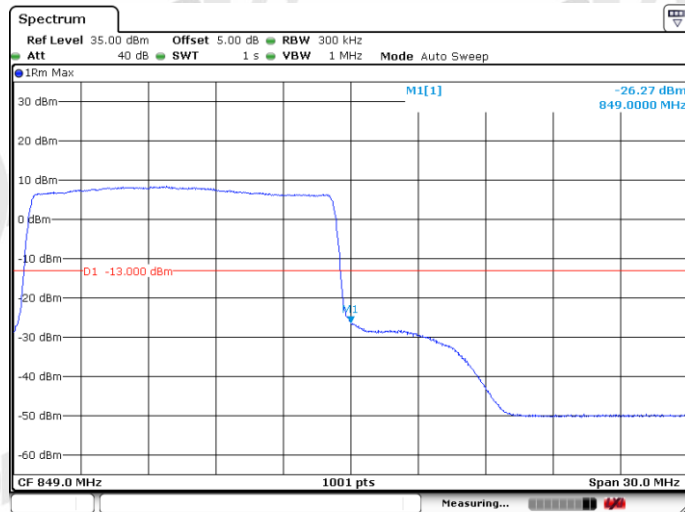
BAND 26_15MHz_QPSK_26865_75RB#0



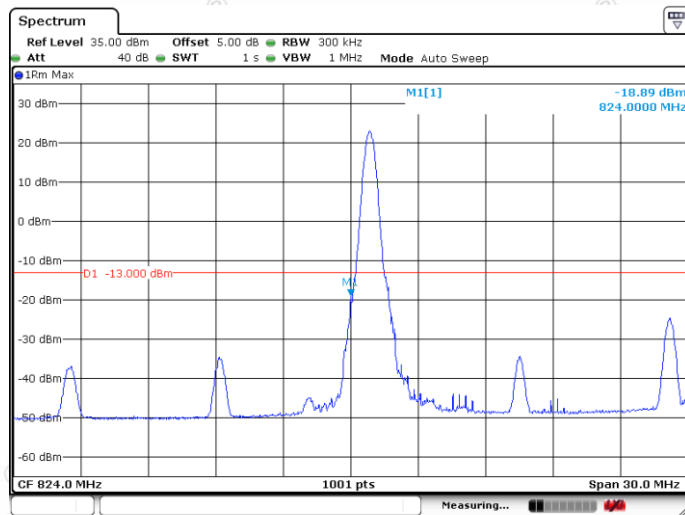
BAND 26_15MHz_QPSK_26965_1RB#74



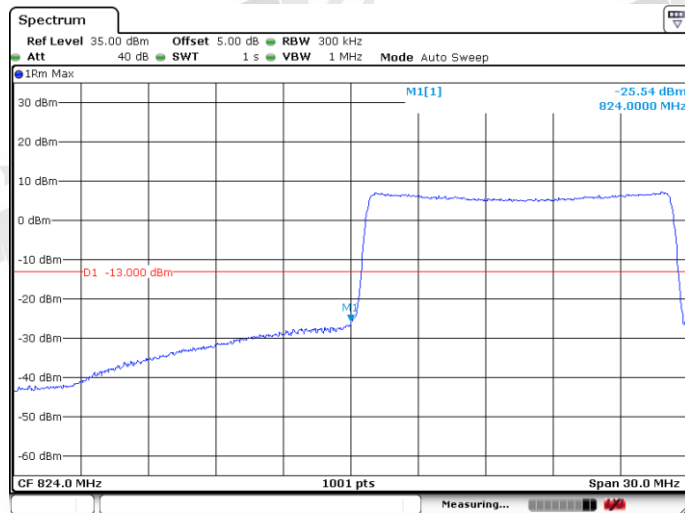
BAND 26_15MHz_QPSK_26965_75RB#0



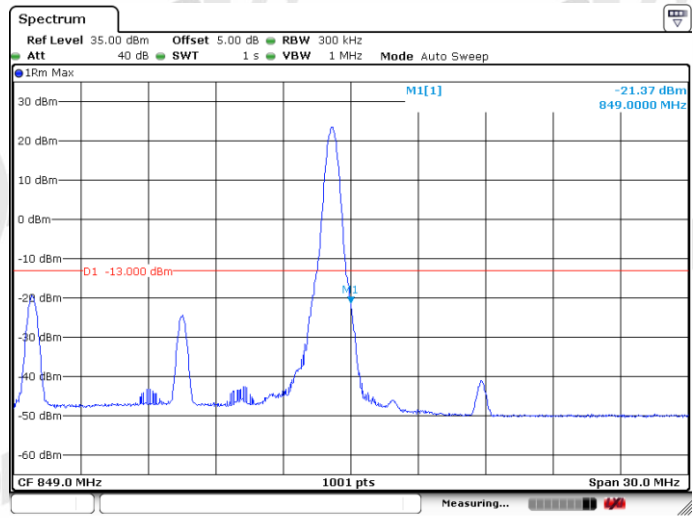
BAND 26_15MHz_16QAM_26865_1RB#0



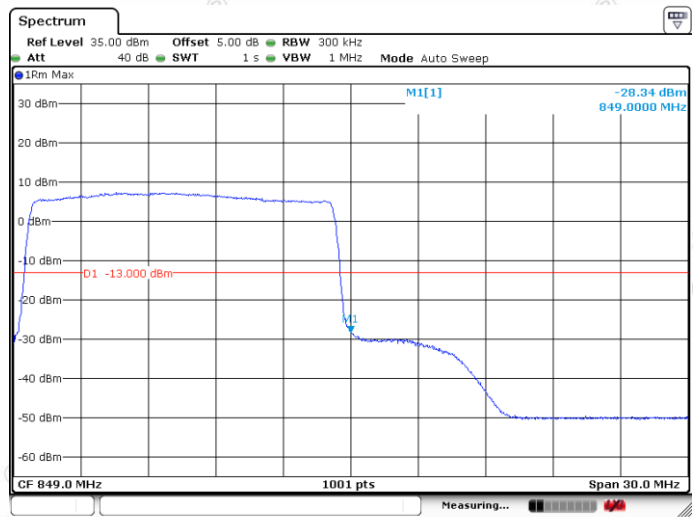
BAND 26_15MHz_16QAM_26865_75RB#0



BAND 26_15MHz_16QAM_26965_1RB#74



BAND 26_15MHz_16QAM_26965_75RB#0

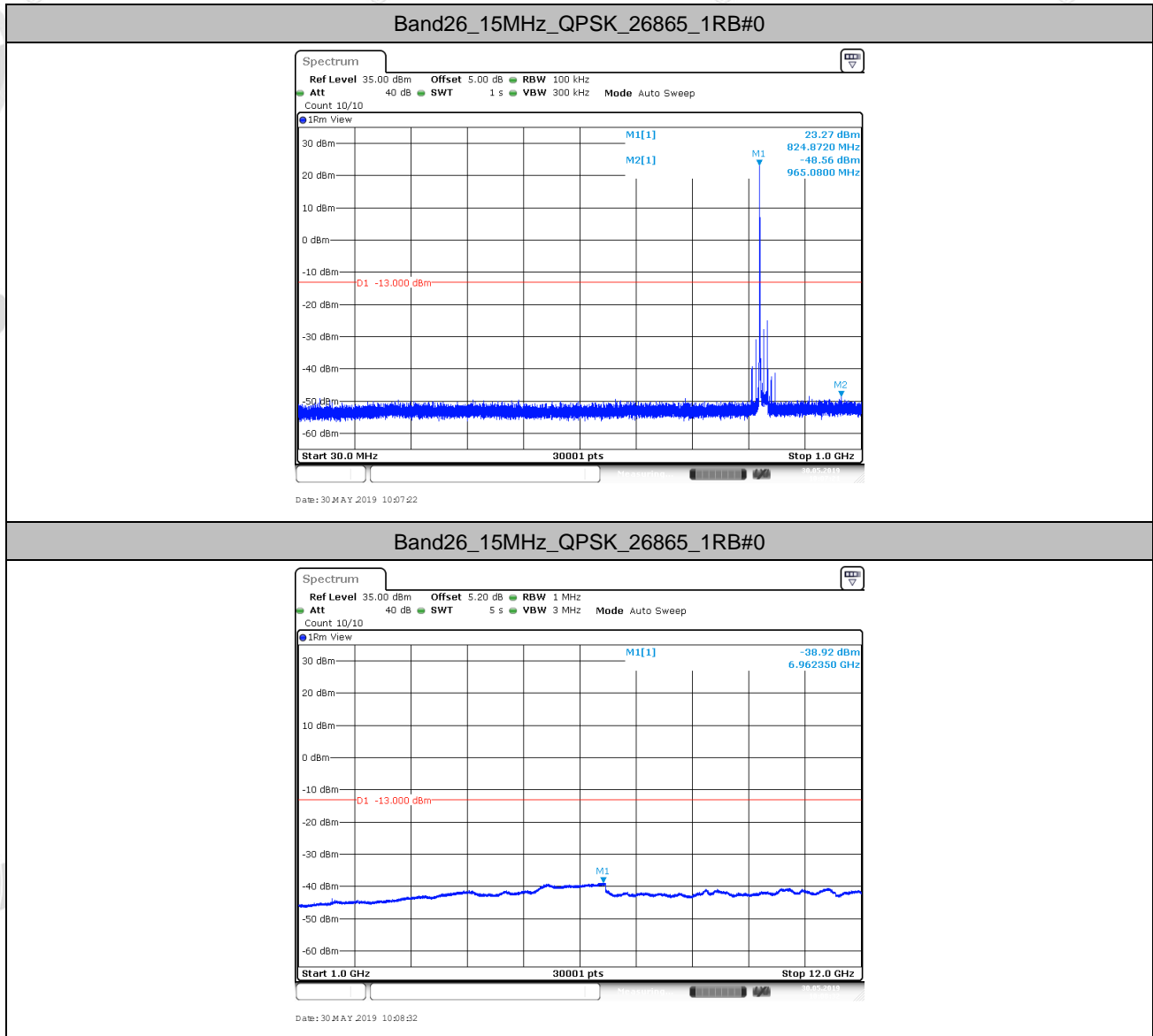


8. Spurious Emission at Antenna Terminal

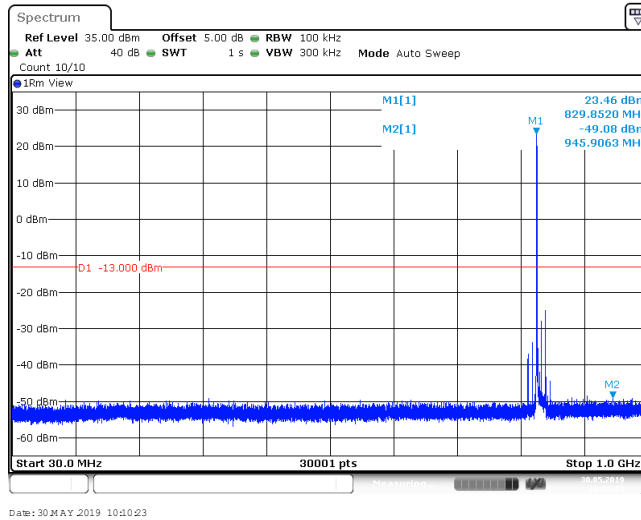
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " 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.

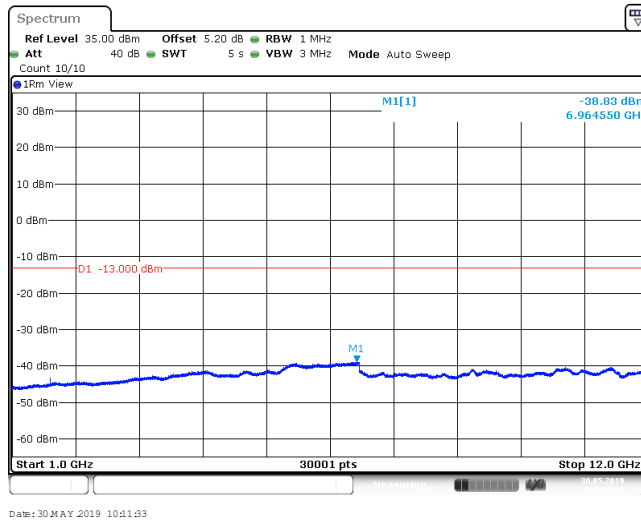
8.1. Test Plots



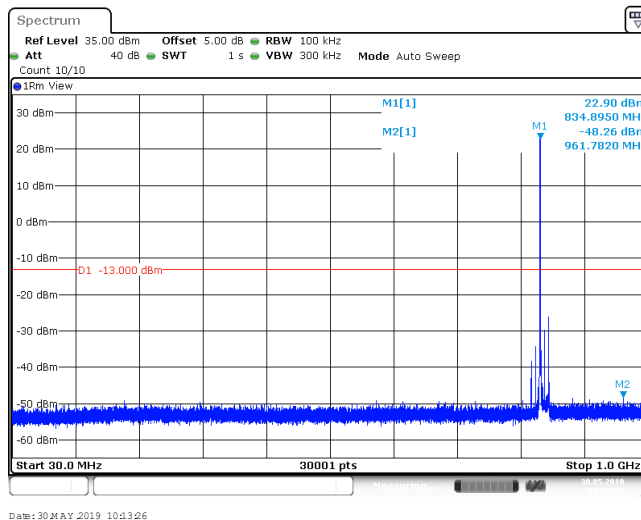
Band26_15MHz_QPSK_26915_1RB#0



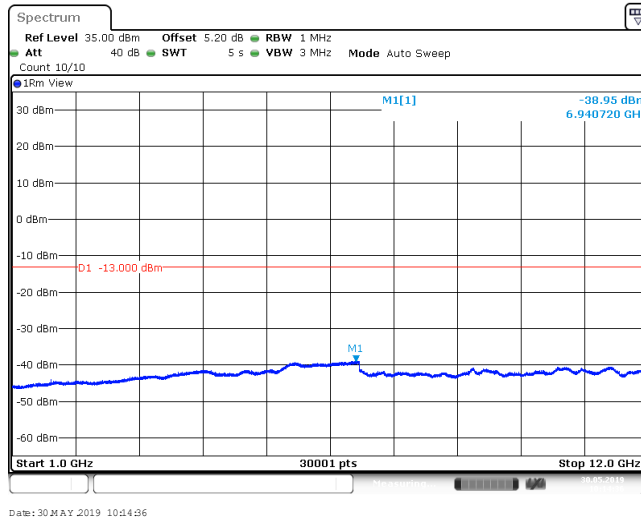
Band26_15MHz_QPSK_26915_1RB#0



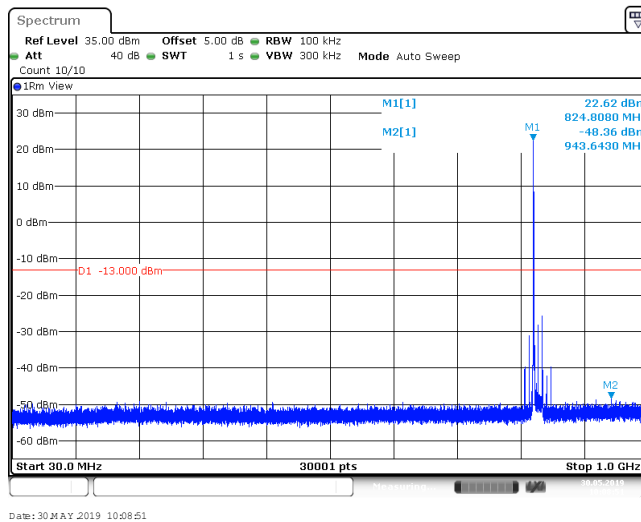
Band26_15MHz_QPSK_26965_1RB#0



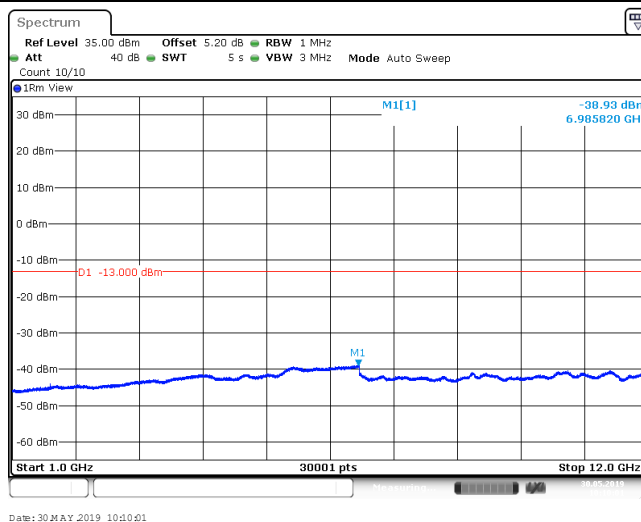
Band26_15MHz_QPSK_26965_1RB#0



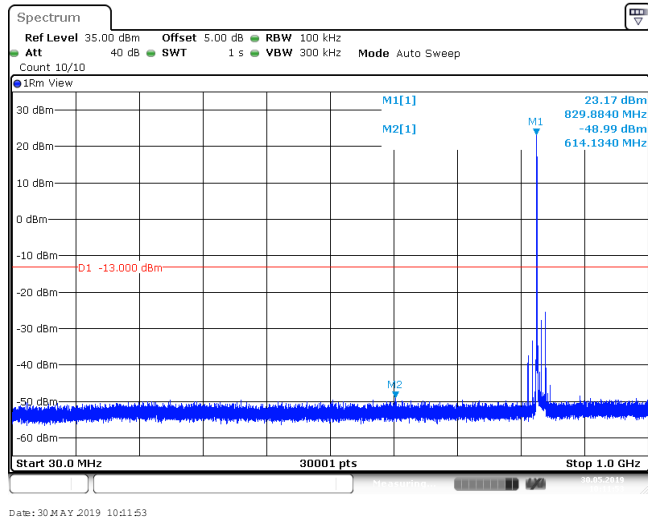
Band26_15MHz_16QAM_26865_1RB#0



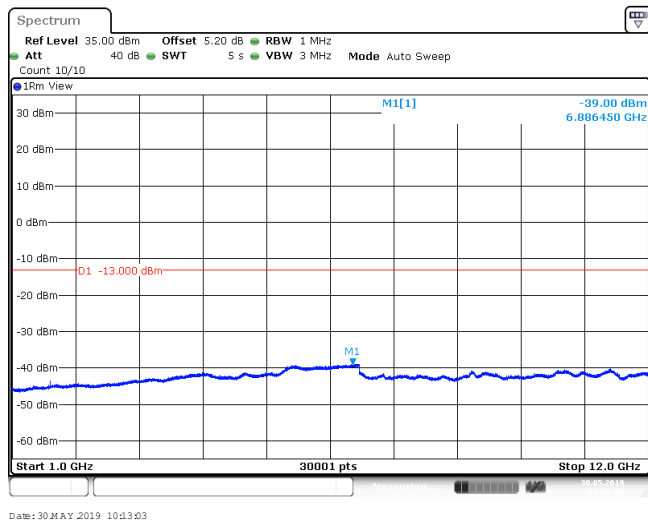
Band26_15MHz_16QAM_26865_1RB#0



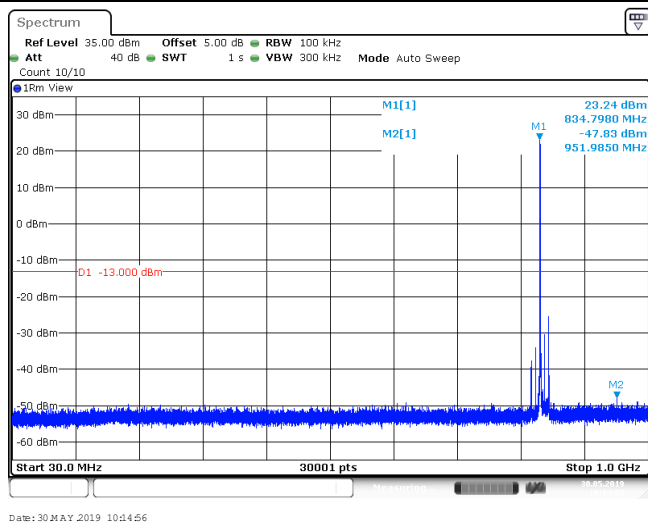
Band26_15MHz_16QAM_26915_1RB#0

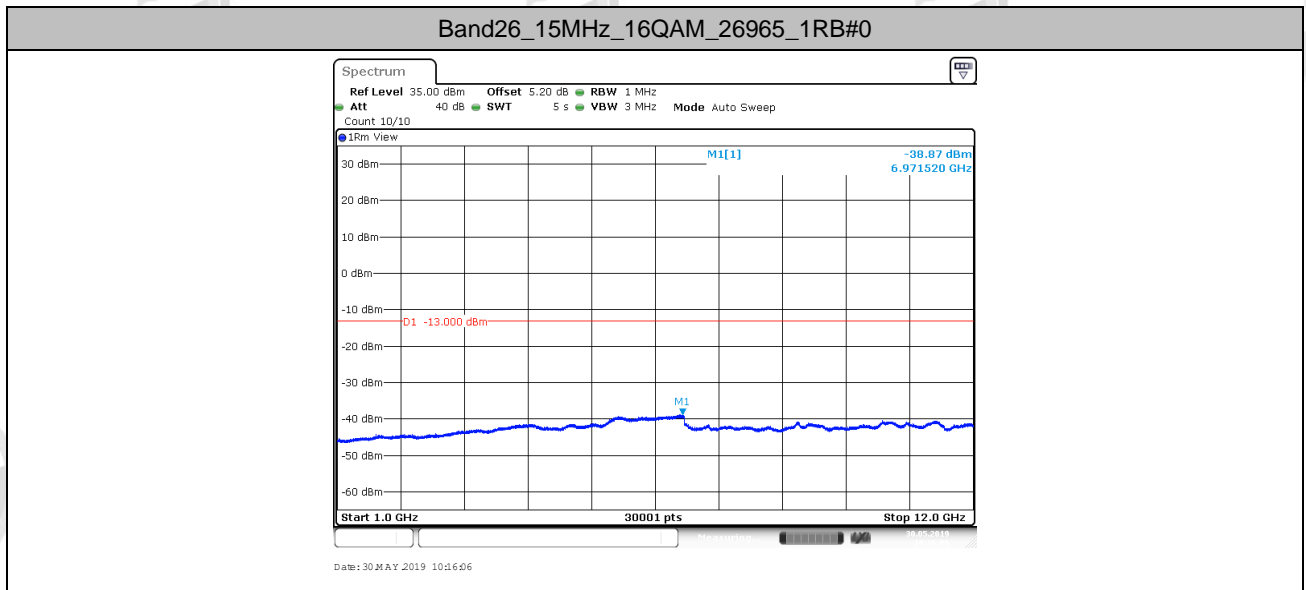


Band26_15MHz_16QAM_26915_1RB#0



Band26_15MHz_16QAM_26965_1RB#0





9. Frequency Stability

9.1. Frequency Vs Voltage

Voltage										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	15MHz	QPSK	26865	75RB#0	VL	NT	0.80	0.000962	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	VN	NT	1.20	0.001443	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	VH	NT	-0.80	-0.000962	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	VL	NT	-2.00	-0.002391	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	VN	NT	1.00	0.001195	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	VH	NT	-0.50	-0.000598	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	VL	NT	-1.50	-0.001783	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	VN	NT	-2.30	-0.002733	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	VH	NT	-0.80	-0.000951	±2.5	PASS
Band26	15MHz	16QAM	26865	75RB#0	VL	NT	-0.10	-0.000120	±2.5	PASS
Band26	15MHz	16QAM	26865	75RB#0	VN	NT	-1.70	-0.002044	±2.5	PASS
Band26	15MHz	16QAM	26865	75RB#0	VH	NT	1.40	0.001684	±2.5	PASS
Band26	15MHz	16QAM	26915	75RB#0	VL	NT	1.70	0.002032	±2.5	PASS
Band26	15MHz	16QAM	26915	75RB#0	VN	NT	0.20	0.000239	±2.5	PASS
Band26	15MHz	16QAM	26915	75RB#0	VH	NT	0.80	0.000956	±2.5	PASS
Band26	15MHz	16QAM	26965	75RB#0	VL	NT	-2.40	-0.002852	±2.5	PASS
Band26	15MHz	16QAM	26965	75RB#0	VN	NT	-0.80	-0.000951	±2.5	PASS
Band26	15MHz	16QAM	26965	75RB#0	VH	NT	0.50	0.000594	±2.5	PASS

9.2. Frequency Vs Temperature

Temperature										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	15MHz	QPSK	26865	75RB#0	NV	-30	-1.60	-0.001924	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	NV	-20	-1.50	-0.001804	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	NV	0	-1.00	-0.001203	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	NV	10	0.30	0.000361	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	NV	20	0.00	0.000000	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	NV	30	0.20	0.000241	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	NV	40	-2.30	-0.002766	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	NV	50	-1.60	-0.001924	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	NV	-30	-0.30	-0.000359	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	NV	-20	-2.40	-0.002869	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	NV	0	-2.80	-0.003347	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	NV	10	-1.60	-0.001913	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	NV	20	-2.20	-0.002630	±2.5	PASS

Band26	15MHz	QPSK	26915	75RB#0	NV	30	-2.40	-0.002869	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	NV	40	0.70	0.000837	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	NV	50	0.20	0.000239	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	NV	-30	-1.10	-0.001307	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	NV	-20	-0.60	-0.000713	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	NV	0	0.20	0.000238	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	NV	10	-3.60	-0.004278	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	NV	20	-0.80	-0.000951	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	NV	30	-3.20	-0.003803	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	NV	40	-1.90	-0.002258	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	NV	50	-0.70	-0.000832	±2.5	PASS
Band26	15MHz	16QAM	26865	75RB#0	NV	-30	-1.80	-0.002165	±2.5	PASS
Band26	15MHz	16QAM	26865	75RB#0	NV	-20	-0.50	-0.000601	±2.5	PASS
Band26	15MHz	16QAM	26865	75RB#0	NV	0	-1.50	-0.001804	±2.5	PASS
Band26	15MHz	16QAM	26865	75RB#0	NV	10	2.50	0.003007	±2.5	PASS
Band26	15MHz	16QAM	26865	75RB#0	NV	20	-1.40	-0.001684	±2.5	PASS
Band26	15MHz	16QAM	26865	75RB#0	NV	30	-0.60	-0.000722	±2.5	PASS
Band26	15MHz	16QAM	26865	75RB#0	NV	40	-0.80	-0.000962	±2.5	PASS
Band26	15MHz	16QAM	26865	75RB#0	NV	50	-1.70	-0.002044	±2.5	PASS
Band26	15MHz	16QAM	26915	75RB#0	NV	-30	0.00	0.000000	±2.5	PASS
Band26	15MHz	16QAM	26915	75RB#0	NV	-20	0.00	0.000000	±2.5	PASS
Band26	15MHz	16QAM	26915	75RB#0	NV	0	-2.80	-0.003347	±2.5	PASS
Band26	15MHz	16QAM	26915	75RB#0	NV	10	0.80	0.000956	±2.5	PASS
Band26	15MHz	16QAM	26915	75RB#0	NV	20	1.00	0.001195	±2.5	PASS
Band26	15MHz	16QAM	26915	75RB#0	NV	30	0.00	0.000000	±2.5	PASS
Band26	15MHz	16QAM	26915	75RB#0	NV	40	0.60	0.000717	±2.5	PASS
Band26	15MHz	16QAM	26915	75RB#0	NV	50	0.50	0.000598	±2.5	PASS
Band26	15MHz	16QAM	26965	75RB#0	NV	-30	1.20	0.001426	±2.5	PASS
Band26	15MHz	16QAM	26965	75RB#0	NV	-20	1.50	0.001783	±2.5	PASS
Band26	15MHz	16QAM	26965	75RB#0	NV	0	0.40	0.000475	±2.5	PASS
Band26	15MHz	16QAM	26965	75RB#0	NV	10	-3.60	-0.004278	±2.5	PASS
Band26	15MHz	16QAM	26965	75RB#0	NV	20	-2.00	-0.002377	±2.5	PASS
Band26	15MHz	16QAM	26965	75RB#0	NV	30	-0.90	-0.001070	±2.5	PASS
Band26	15MHz	16QAM	26965	75RB#0	NV	40	-2.10	-0.002496	±2.5	PASS
Band26	15MHz	16QAM	26965	75RB#0	NV	50	-3.70	-0.004397	±2.5	PASS

The End