

Appendix B

E-UTRA BAND 26 (824MHz-849MHz)

TABLE OF CONTENTS

1	MAIN TEST INSTRUMENTS.....	3
2	MEASUREMENT UNCERTAINTY	3
3.	EFFECTIVE (ISOTROPIC) RADIATED POWER	4
3.1.	<i>Test Result</i>	4
4.	PEAK-TO-AVERAGE RATIO(CCDF).....	9
4.1.	<i>Test Result</i>	9
4.2.	<i>Test Plots</i>	9
5.	MODULATION CHARACTERISTICS	12
5.1.	<i>Test BAND = LTE BAND 26</i>	12
5.1.1.	<i>Test Mode = LTE /TM1 15MHz</i>	12
5.1.1.1.	<i>Test Channel = MCH</i>	12
5.1.2.	<i>Test Mode = LTE /TM2 15MHz</i>	12
5.1.2.1.	<i>Test Channel = MCH</i>	12
6.	26dB BANDWIDTH AND OCCUPIED BANDWIDTH	13
6.1.	<i>Test Result</i>	13
6.2.	<i>Test Plots</i>	14
7.	BAND EDGE COMPLIANCE.....	24
7.1.	<i>Test Plots</i>	24
8.	SPURIOUS EMISSION AT ANTENNA TERMINAL	38
8.1.	<i>Test Plots</i>	38
9.	FREQUENCY STABILITY.....	43
9.1.	<i>Frequency Vs Voltage</i>	43
9.2.	<i>Frequency Vs Temperature</i>	43

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	2018/4/2	2019/4/1
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	2018/4/2	2019/4/1
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	Anristu	MT8821C	6201462742	2018/5/2	2019/5/1
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	W005-02	2018/3/13	2019/3/12

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	2018/9/15	2019/9/15
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2018/3/13	2019/3/12
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	2018/9/2	2019/9/2
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	W006-17	2018/9/10	2019/9/10
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2018/11/27	2019/11/27
Wideband Radio Communication Tester	Anristu	MT8821C	6201462742	2018/5/2	2019/5/1
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	W005-02	2018/3/13	2019/3/12

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]	$U = \pm 0.37 \text{ dB}$
Bandwidth	Magnitude [%]	$U = \pm 0.2\%$
Band Edge Compliance	Disturbance Power [dBm]	$U = \pm 2.0 \text{ dB}$
Spurious Emissions, Conducted	Disturbance Power [dBm]	$U = \pm 2.0 \text{ dB}$
Frequency Stability	Frequency Accuracy [ppm]	$U = \pm 0.24 \text{ ppm}$

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	22.93	19.42	38.45	PASS
Band26	1.4MHz	QPSK	26797	1RB#2	22.9	19.39	38.45	PASS
Band26	1.4MHz	QPSK	26797	1RB#5	22.83	19.32	38.45	PASS
Band26	1.4MHz	QPSK	26797	3RB#0	22.79	19.28	38.45	PASS
Band26	1.4MHz	QPSK	26797	3RB#1	23.04	19.53	38.45	PASS
Band26	1.4MHz	QPSK	26797	3RB#3	23.26	19.75	38.45	PASS
Band26	1.4MHz	QPSK	26797	6RB#0	22.04	18.53	38.45	PASS
Band26	1.4MHz	QPSK	26915	1RB#0	22.94	19.43	38.45	PASS
Band26	1.4MHz	QPSK	26915	1RB#2	22.92	19.41	38.45	PASS
Band26	1.4MHz	QPSK	26915	1RB#5	22.87	19.36	38.45	PASS
Band26	1.4MHz	QPSK	26915	3RB#0	23.18	19.67	38.45	PASS
Band26	1.4MHz	QPSK	26915	3RB#1	23.15	19.64	38.45	PASS
Band26	1.4MHz	QPSK	26915	3RB#3	23.29	19.78	38.45	PASS
Band26	1.4MHz	QPSK	26915	6RB#0	22.07	18.56	38.45	PASS
Band26	1.4MHz	QPSK	27033	1RB#0	23.05	19.54	38.45	PASS
Band26	1.4MHz	QPSK	27033	1RB#2	22.79	19.28	38.45	PASS
Band26	1.4MHz	QPSK	27033	1RB#5	22.66	19.15	38.45	PASS
Band26	1.4MHz	QPSK	27033	3RB#0	22.94	19.43	38.45	PASS
Band26	1.4MHz	QPSK	27033	3RB#1	22.92	19.41	38.45	PASS
Band26	1.4MHz	QPSK	27033	3RB#3	22.78	19.27	38.45	PASS
Band26	1.4MHz	QPSK	27033	6RB#0	22.13	18.62	38.45	PASS
Band26	1.4MHz	16QAM	26797	1RB#0	21.61	18.10	38.45	PASS
Band26	1.4MHz	16QAM	26797	1RB#2	21.77	18.26	38.45	PASS
Band26	1.4MHz	16QAM	26797	1RB#5	21.64	18.13	38.45	PASS
Band26	1.4MHz	16QAM	26797	3RB#0	21.96	18.45	38.45	PASS
Band26	1.4MHz	16QAM	26797	3RB#1	22.26	18.75	38.45	PASS
Band26	1.4MHz	16QAM	26797	3RB#3	22.12	18.61	38.45	PASS
Band26	1.4MHz	16QAM	26797	6RB#0	21.12	17.61	38.45	PASS
Band26	1.4MHz	16QAM	26915	1RB#0	21.8	18.29	38.45	PASS
Band26	1.4MHz	16QAM	26915	1RB#2	21.79	18.28	38.45	PASS
Band26	1.4MHz	16QAM	26915	1RB#5	21.58	18.07	38.45	PASS
Band26	1.4MHz	16QAM	26915	3RB#0	22.06	18.55	38.45	PASS
Band26	1.4MHz	16QAM	26915	3RB#1	22.2	18.69	38.45	PASS
Band26	1.4MHz	16QAM	26915	3RB#3	22.16	18.65	38.45	PASS
Band26	1.4MHz	16QAM	26915	6RB#0	21.17	17.66	38.45	PASS
Band26	1.4MHz	16QAM	27033	1RB#0	21.95	18.44	38.45	PASS

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Report No: JYTSZ-R12-2200353

Band26	1.4MHz	16QAM	27033	1RB#2	21.46	17.95	38.45	PASS
Band26	1.4MHz	16QAM	27033	1RB#5	21.42	17.91	38.45	PASS
Band26	1.4MHz	16QAM	27033	3RB#0	21.98	18.47	38.45	PASS
Band26	1.4MHz	16QAM	27033	3RB#1	21.9	18.39	38.45	PASS
Band26	1.4MHz	16QAM	27033	3RB#3	21.9	18.39	38.45	PASS
Band26	1.4MHz	16QAM	27033	6RB#0	21.19	17.68	38.45	PASS
Band26	3MHz	QPSK	26805	1RB#0	23.02	19.51	38.45	PASS
Band26	3MHz	QPSK	26805	1RB#8	23.12	19.61	38.45	PASS
Band26	3MHz	QPSK	26805	1RB#14	22.94	19.43	38.45	PASS
Band26	3MHz	QPSK	26805	8RB#0	22.01	18.50	38.45	PASS
Band26	3MHz	QPSK	26805	8RB#4	22.06	18.55	38.45	PASS
Band26	3MHz	QPSK	26805	8RB#7	22.08	18.57	38.45	PASS
Band26	3MHz	QPSK	26805	15RB#0	22.09	18.58	38.45	PASS
Band26	3MHz	QPSK	26915	1RB#0	22.94	19.43	38.45	PASS
Band26	3MHz	QPSK	26915	1RB#8	22.90	19.39	38.45	PASS
Band26	3MHz	QPSK	26915	1RB#14	22.86	19.35	38.45	PASS
Band26	3MHz	QPSK	26915	8RB#0	22.14	18.63	38.45	PASS
Band26	3MHz	QPSK	26915	8RB#4	21.91	18.40	38.45	PASS
Band26	3MHz	QPSK	26915	8RB#7	21.96	18.45	38.45	PASS
Band26	3MHz	QPSK	26915	15RB#0	22.13	18.62	38.45	PASS
Band26	3MHz	QPSK	27025	1RB#0	23.15	19.64	38.45	PASS
Band26	3MHz	QPSK	27025	1RB#8	22.68	19.17	38.45	PASS
Band26	3MHz	QPSK	27025	1RB#14	22.6	19.09	38.45	PASS
Band26	3MHz	QPSK	27025	8RB#0	22.34	18.83	38.45	PASS
Band26	3MHz	QPSK	27025	8RB#4	21.81	18.30	38.45	PASS
Band26	3MHz	QPSK	27025	8RB#7	21.78	18.27	38.45	PASS
Band26	3MHz	QPSK	27025	15RB#0	22.15	18.64	38.45	PASS
Band26	3MHz	16QAM	26805	1RB#0	21.82	18.31	38.45	PASS
Band26	3MHz	16QAM	26805	1RB#8	21.79	18.28	38.45	PASS
Band26	3MHz	16QAM	26805	1RB#14	21.63	18.12	38.45	PASS
Band26	3MHz	16QAM	26805	8RB#0	20.80	17.29	38.45	PASS
Band26	3MHz	16QAM	26805	8RB#4	20.96	17.45	38.45	PASS
Band26	3MHz	16QAM	26805	8RB#7	20.98	17.47	38.45	PASS
Band26	3MHz	16QAM	26805	15RB#0	21.02	17.51	38.45	PASS
Band26	3MHz	16QAM	26915	1RB#0	21.99	18.48	38.45	PASS
Band26	3MHz	16QAM	26915	1RB#8	21.71	18.20	38.45	PASS
Band26	3MHz	16QAM	26915	1RB#14	21.63	18.12	38.45	PASS
Band26	3MHz	16QAM	26915	8RB#0	20.99	17.48	38.45	PASS
Band26	3MHz	16QAM	26915	8RB#4	20.84	17.33	38.45	PASS
Band26	3MHz	16QAM	26915	8RB#7	20.90	17.39	38.45	PASS
Band26	3MHz	16QAM	26915	15RB#0	21.13	17.62	38.45	PASS
Band26	3MHz	16QAM	27025	1RB#0	21.91	18.40	38.45	PASS
Band26	3MHz	16QAM	27025	1RB#8	21.36	17.85	38.45	PASS
Band26	3MHz	16QAM	27025	1RB#14	21.79	18.28	38.45	PASS

JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZ-R12-2200353

Band26	3MHz	16QAM	27025	8RB#0	21.35	17.84	38.45	PASS
Band26	3MHz	16QAM	27025	8RB#4	20.61	17.10	38.45	PASS
Band26	3MHz	16QAM	27025	8RB#7	20.70	17.19	38.45	PASS
Band26	3MHz	16QAM	27025	15RB#0	21.23	17.72	38.45	PASS
Band26	5MHz	QPSK	26815	1RB#0	22.84	19.33	38.45	PASS
Band26	5MHz	QPSK	26815	1RB#12	23.17	19.66	38.45	PASS
Band26	5MHz	QPSK	26815	1RB#24	22.89	19.38	38.45	PASS
Band26	5MHz	QPSK	26815	12RB#0	21.92	18.41	38.45	PASS
Band26	5MHz	QPSK	26815	12RB#6	22.12	18.61	38.45	PASS
Band26	5MHz	QPSK	26815	12RB#13	22.06	18.55	38.45	PASS
Band26	5MHz	QPSK	26815	25RB#0	22.00	18.49	38.45	PASS
Band26	5MHz	QPSK	26915	1RB#0	23.06	19.55	38.45	PASS
Band26	5MHz	QPSK	26915	1RB#12	22.82	19.31	38.45	PASS
Band26	5MHz	QPSK	26915	1RB#24	22.79	19.28	38.45	PASS
Band26	5MHz	QPSK	26915	12RB#0	22.22	18.71	38.45	PASS
Band26	5MHz	QPSK	26915	12RB#6	21.98	18.47	38.45	PASS
Band26	5MHz	QPSK	26915	12RB#13	21.86	18.35	38.45	PASS
Band26	5MHz	QPSK	26915	25RB#0	22.12	18.61	38.45	PASS
Band26	5MHz	QPSK	27015	1RB#0	23.04	19.53	38.45	PASS
Band26	5MHz	QPSK	27015	1RB#12	23.17	19.66	38.45	PASS
Band26	5MHz	QPSK	27015	1RB#24	22.89	19.38	38.45	PASS
Band26	5MHz	QPSK	27015	12RB#0	22.79	19.28	38.45	PASS
Band26	5MHz	QPSK	27015	12RB#6	22.03	18.52	38.45	PASS
Band26	5MHz	QPSK	27015	12RB#13	21.57	18.06	38.45	PASS
Band26	5MHz	QPSK	27015	25RB#0	22.03	18.52	38.45	PASS
Band26	5MHz	16QAM	26815	1RB#0	21.76	18.25	38.45	PASS
Band26	5MHz	16QAM	26815	1RB#12	21.74	18.23	38.45	PASS
Band26	5MHz	16QAM	26815	1RB#24	21.79	18.28	38.45	PASS
Band26	5MHz	16QAM	26815	12RB#0	20.67	17.16	38.45	PASS
Band26	5MHz	16QAM	26815	12RB#6	20.90	17.39	38.45	PASS
Band26	5MHz	16QAM	26815	12RB#13	20.80	17.29	38.45	PASS
Band26	5MHz	16QAM	26815	25RB#0	20.71	17.20	38.45	PASS
Band26	5MHz	16QAM	26915	1RB#0	21.91	18.40	38.45	PASS
Band26	5MHz	16QAM	26915	1RB#12	21.77	18.26	38.45	PASS
Band26	5MHz	16QAM	26915	1RB#24	21.71	18.20	38.45	PASS
Band26	5MHz	16QAM	26915	12RB#0	20.98	17.47	38.45	PASS
Band26	5MHz	16QAM	26915	12RB#6	20.73	17.22	38.45	PASS
Band26	5MHz	16QAM	26915	12RB#13	20.75	17.24	38.45	PASS
Band26	5MHz	16QAM	26915	25RB#0	20.56	17.05	38.45	PASS
Band26	5MHz	16QAM	27015	1RB#0	21.71	18.20	38.45	PASS
Band26	5MHz	16QAM	27015	1RB#12	22.06	18.55	38.45	PASS
Band26	5MHz	16QAM	27015	1RB#24	22.08	18.57	38.45	PASS
Band26	5MHz	16QAM	27015	12RB#0	21.06	17.55	38.45	PASS
Band26	5MHz	16QAM	27015	12RB#6	21.12	17.61	38.45	PASS

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Report No: JYTSZ-R12-2200353

Band26	5MHz	16QAM	27015	12RB#13	21.36	17.85	38.45	PASS
Band26	5MHz	16QAM	27015	25RB#0	21.12	17.61	38.45	PASS
Band26	10MHz	QPSK	26840	1RB#0	22.85	19.34	38.45	PASS
Band26	10MHz	QPSK	26840	1RB#24	23.61	20.10	38.45	PASS
Band26	10MHz	QPSK	26840	1RB#49	22.34	18.83	38.45	PASS
Band26	10MHz	QPSK	26840	25RB#0	22.02	18.51	38.45	PASS
Band26	10MHz	QPSK	26840	25RB#12	22.17	18.66	38.45	PASS
Band26	10MHz	QPSK	26840	25RB#25	21.86	18.35	38.45	PASS
Band26	10MHz	QPSK	26840	50RB#0	21.88	18.37	38.45	PASS
Band26	10MHz	QPSK	26915	1RB#0	23.08	19.57	38.45	PASS
Band26	10MHz	QPSK	26915	1RB#24	23.21	19.70	38.45	PASS
Band26	10MHz	QPSK	26915	1RB#49	22.63	19.12	38.45	PASS
Band26	10MHz	QPSK	26915	25RB#0	22.19	18.68	38.45	PASS
Band26	10MHz	QPSK	26915	25RB#12	22.00	18.49	38.45	PASS
Band26	10MHz	QPSK	26915	25RB#25	21.77	18.26	38.45	PASS
Band26	10MHz	QPSK	26915	50RB#0	22.03	18.52	38.45	PASS
Band26	10MHz	QPSK	26990	1RB#0	22.73	19.22	38.45	PASS
Band26	10MHz	QPSK	26990	1RB#24	23.01	19.50	38.45	PASS
Band26	10MHz	QPSK	26990	1RB#49	22.86	19.35	38.45	PASS
Band26	10MHz	QPSK	26990	25RB#0	22.38	18.87	38.45	PASS
Band26	10MHz	QPSK	26990	25RB#12	22.52	19.01	38.45	PASS
Band26	10MHz	QPSK	26990	25RB#25	21.83	18.32	38.45	PASS
Band26	10MHz	QPSK	26990	50RB#0	22.01	18.50	38.45	PASS
Band26	10MHz	16QAM	26840	1RB#0	21.90	18.39	38.45	PASS
Band26	10MHz	16QAM	26840	1RB#24	21.83	18.32	38.45	PASS
Band26	10MHz	16QAM	26840	1RB#49	21.79	18.28	38.45	PASS
Band26	10MHz	16QAM	26840	27RB#0	21.16	17.65	38.45	PASS
Band26	10MHz	16QAM	26915	1RB#0	21.94	18.43	38.45	PASS
Band26	10MHz	16QAM	26915	1RB#24	21.75	18.24	38.45	PASS
Band26	10MHz	16QAM	26915	1RB#49	21.72	18.21	38.45	PASS
Band26	10MHz	16QAM	26915	27RB#0	21.13	17.62	38.45	PASS
Band26	10MHz	16QAM	26990	1RB#0	21.81	18.30	38.45	PASS
Band26	10MHz	16QAM	26990	1RB#24	21.77	18.26	38.45	PASS
Band26	10MHz	16QAM	26990	1RB#49	21.87	18.36	38.45	PASS
Band26	10MHz	16QAM	26990	27RB#0	21.17	17.66	38.45	PASS
Band26	15MHz	QPSK	26865	1RB#0	23.02	19.51	38.45	PASS
Band26	15MHz	QPSK	26865	1RB#38	23.47	19.96	38.45	PASS
Band26	15MHz	QPSK	26865	1RB#74	22.31	18.80	38.45	PASS
Band26	15MHz	QPSK	26865	36RB#0	22.16	18.65	38.45	PASS
Band26	15MHz	QPSK	26865	36RB#18	22.05	18.54	38.45	PASS
Band26	15MHz	QPSK	26865	36RB#39	21.81	18.30	38.45	PASS
Band26	15MHz	QPSK	26865	75RB#0	21.88	18.37	38.45	PASS
Band26	15MHz	QPSK	26915	1RB#0	22.87	19.36	38.45	PASS
Band26	15MHz	QPSK	26915	1RB#38	22.96	19.45	38.45	PASS

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Report No: JYTSZ-R12-2200353

Band26	15MHz	QPSK	26915	1RB#74	22.72	19.21	38.45	PASS
Band26	15MHz	QPSK	26915	36RB#0	22.18	18.67	38.45	PASS
Band26	15MHz	QPSK	26915	36RB#18	22.12	18.61	38.45	PASS
Band26	15MHz	QPSK	26915	36RB#39	21.83	18.32	38.45	PASS
Band26	15MHz	QPSK	26915	75RB#0	21.77	18.26	38.45	PASS
Band26	15MHz	QPSK	26965	1RB#0	23.33	19.82	38.45	PASS
Band26	15MHz	QPSK	26965	1RB#38	23.19	19.68	38.45	PASS
Band26	15MHz	QPSK	26965	1RB#74	23.39	19.88	38.45	PASS
Band26	15MHz	QPSK	26965	36RB#0	22.14	18.63	38.45	PASS
Band26	15MHz	QPSK	26965	36RB#18	22.19	18.68	38.45	PASS
Band26	15MHz	QPSK	26965	36RB#39	22.14	18.63	38.45	PASS
Band26	15MHz	QPSK	26965	75RB#0	22.37	18.86	38.45	PASS
Band26	15MHz	16QAM	26865	1RB#0	21.82	18.31	38.45	PASS
Band26	15MHz	16QAM	26865	1RB#38	22.07	18.56	38.45	PASS
Band26	15MHz	16QAM	26865	1RB#74	21.75	18.24	38.45	PASS
Band26	15MHz	16QAM	26865	27RB#0	20.79	17.28	38.45	PASS
Band26	15MHz	16QAM	26915	1RB#0	21.78	18.27	38.45	PASS
Band26	15MHz	16QAM	26915	1RB#38	21.68	18.17	38.45	PASS
Band26	15MHz	16QAM	26915	1RB#74	21.42	17.91	38.45	PASS
Band26	15MHz	16QAM	26915	27RB#0	20.76	17.25	38.45	PASS
Band26	15MHz	16QAM	26965	1RB#0	21.75	18.24	38.45	PASS
Band26	15MHz	16QAM	26965	1RB#38	21.81	18.30	38.45	PASS
Band26	15MHz	16QAM	26965	1RB#74	21.20	17.69	38.45	PASS
Band26	15MHz	16QAM	26965	27RB#0	20.80	17.29	38.45	PASS

Remark:

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

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

$$\text{EIRP [dBm]} = \text{Conducted power[dBm]} + \text{Gain [dBi]}$$

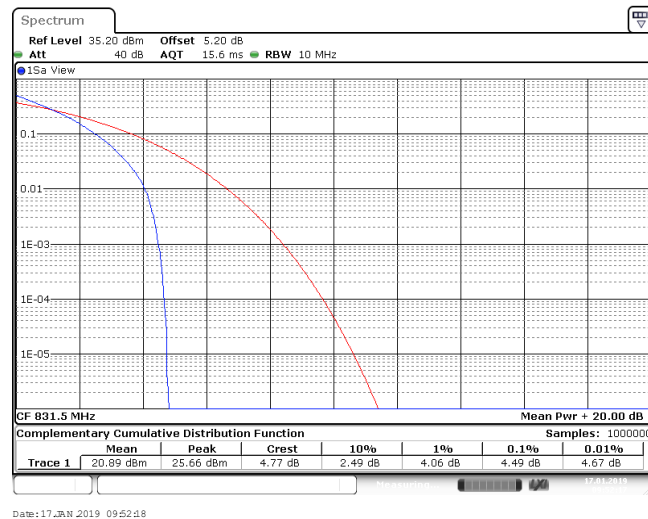
4. Peak-to-Average Ratio(CCDF)

4.1. Test Result

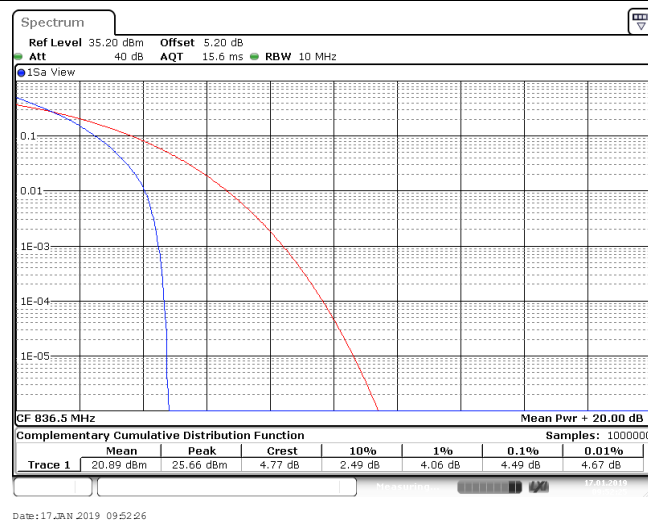
BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band26	15MHz	QPSK	26865	75RB#0	4.49	13	PASS
Band26	15MHz	QPSK	26915	75RB#0	4.49	13	PASS
Band26	15MHz	QPSK	26965	75RB#0	4.49	13	PASS
Band26	15MHz	16QAM	26865	27RB#0	4.41	13	PASS
Band26	15MHz	16QAM	26915	27RB#0	4.41	13	PASS
Band26	15MHz	16QAM	26965	27RB#0	4.32	13	PASS

4.2. Test Plots

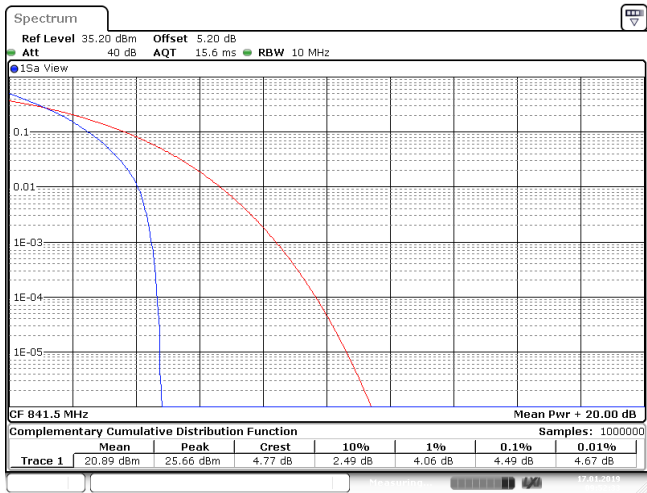
Band26_15MHz_QPSK_26865_75RB#0



Band26_15MHz_QPSK_26915_75RB#0

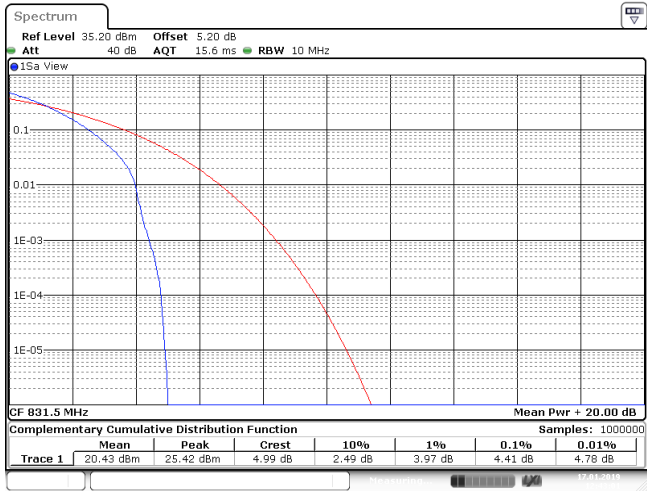


Band26_15MHz_QPSK_26965_75RB#0



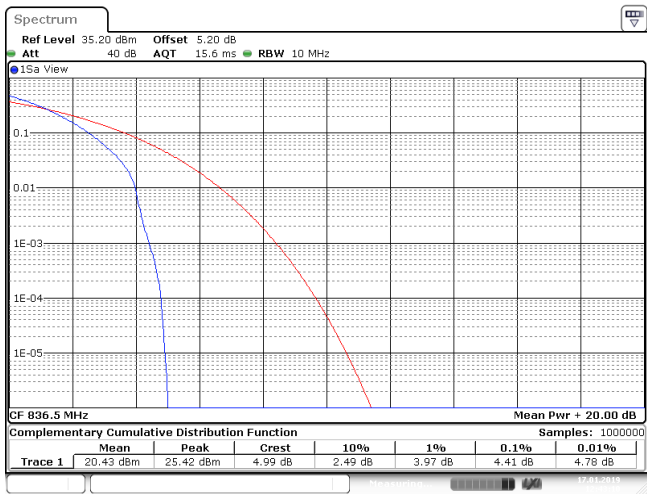
Date:17_JAN 2019 09:52:33

Band26_15MHz_16QAM_26865_27RB#0



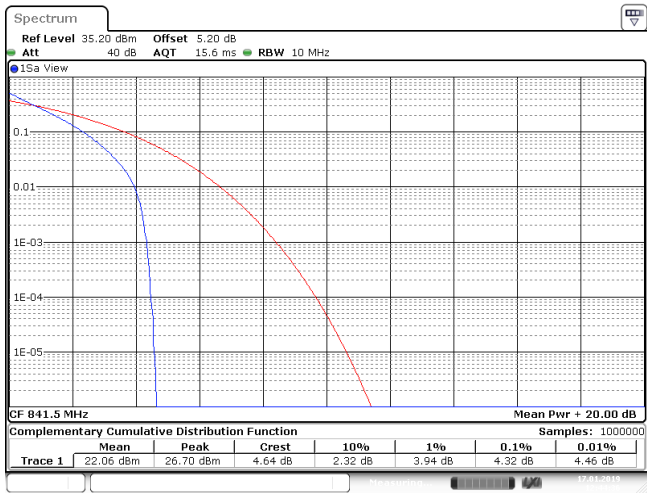
Date:17_JAN 2019 12:43:02

Band26_15MHz_16QAM_26915_27RB#0



Date:17_JAN 2019 12:43:10

Band26_15MHz_16QAM_26965_27RB#0



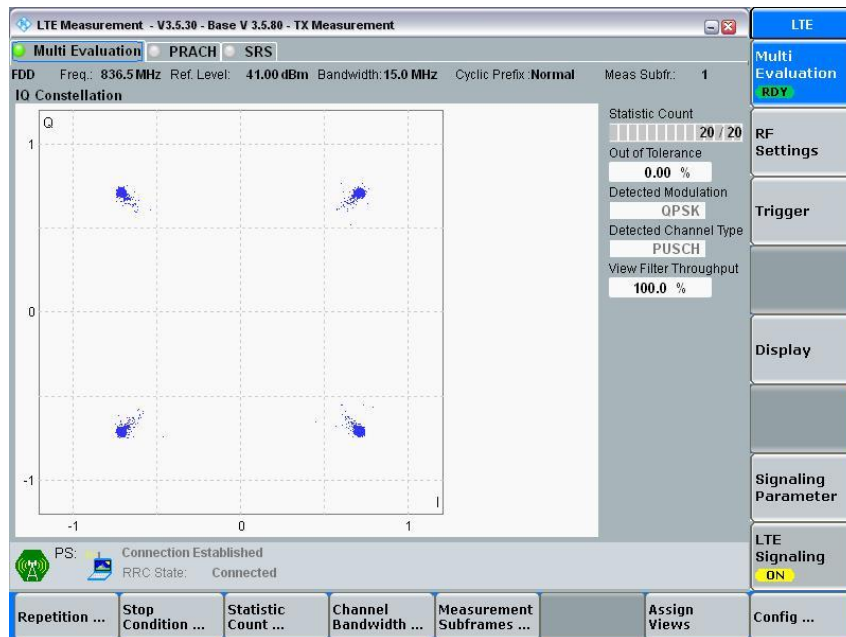
Date:17_JAN 2019 12:44:36

5. Modulation Characteristics

5.1. Test BAND = LTE BAND 26

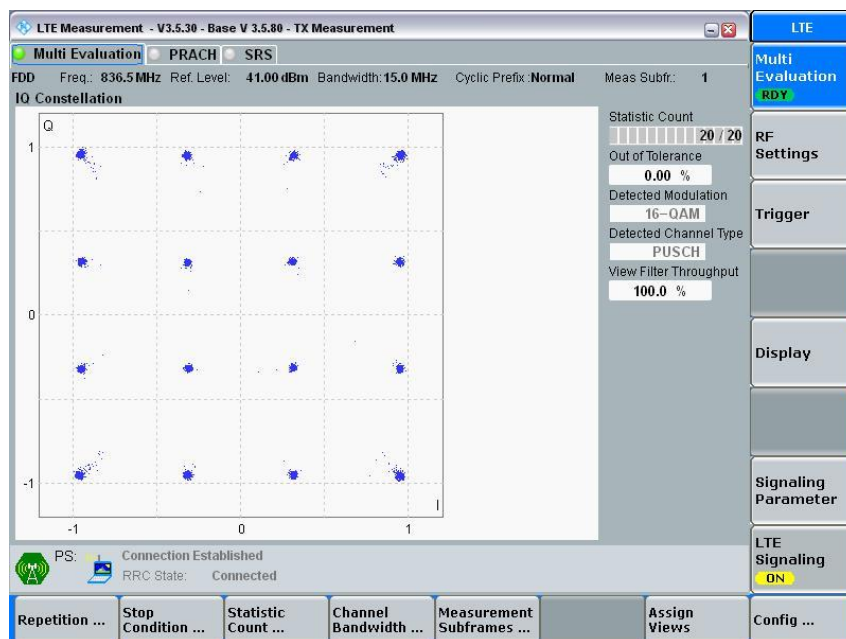
5.1.1. Test Mode = LTE /TM1 15MHz

5.1.1.1. Test Channel = MCH



5.1.2. Test Mode = LTE /TM2 15MHz

5.1.2.1. Test Channel = MCH



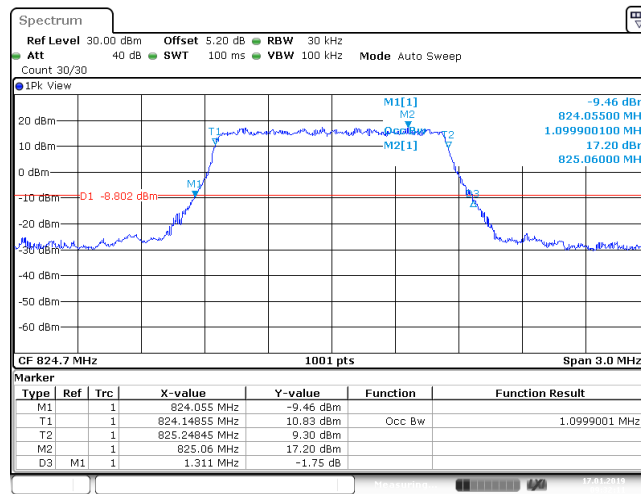
6. 26dB Bandwidth and Occupied Bandwidth

6.1. Test Result

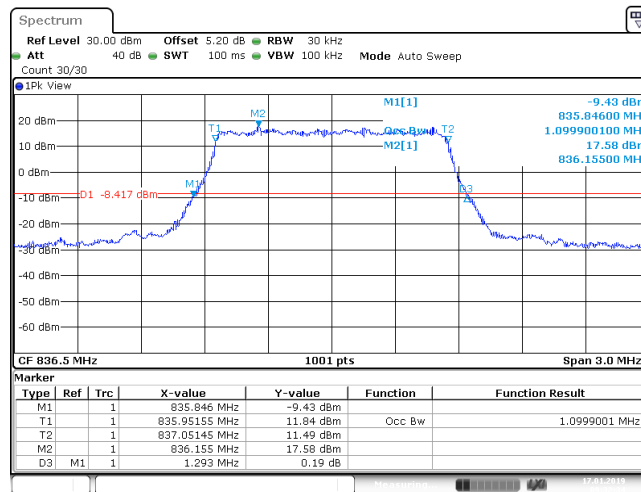
BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band26	1.4MHz	QPSK	26797	6RB#0	1.100	1.311	PASS
Band26	1.4MHz	QPSK	26915	6RB#0	1.100	1.293	PASS
Band26	1.4MHz	QPSK	27033	6RB#0	1.097	1.305	PASS
Band26	1.4MHz	16QAM	26797	6RB#0	1.100	1.305	PASS
Band26	1.4MHz	16QAM	26915	6RB#0	1.097	1.314	PASS
Band26	1.4MHz	16QAM	27033	6RB#0	1.091	1.281	PASS
Band26	3MHz	QPSK	26805	15RB#0	2.697	2.970	PASS
Band26	3MHz	QPSK	26915	15RB#0	2.697	2.988	PASS
Band26	3MHz	QPSK	27025	15RB#0	2.697	2.976	PASS
Band26	3MHz	16QAM	26805	15RB#0	2.703	3.006	PASS
Band26	3MHz	16QAM	26915	15RB#0	2.697	2.988	PASS
Band26	3MHz	16QAM	27025	15RB#0	2.691	2.988	PASS
Band26	5MHz	QPSK	26815	25RB#0	4.486	4.930	PASS
Band26	5MHz	QPSK	26915	25RB#0	4.466	4.910	PASS
Band26	5MHz	QPSK	27015	25RB#0	4.486	4.940	PASS
Band26	5MHz	16QAM	26815	25RB#0	4.476	4.910	PASS
Band26	5MHz	16QAM	26915	25RB#0	4.476	4.940	PASS
Band26	5MHz	16QAM	27015	25RB#0	4.476	4.940	PASS
Band26	10MHz	QPSK	26840	50RB#0	8.931	9.700	PASS
Band26	10MHz	QPSK	26915	50RB#0	8.911	9.720	PASS
Band26	10MHz	QPSK	26990	50RB#0	8.931	9.800	PASS
Band26	10MHz	16QAM	26840	27RB#0	4.875	5.580	PASS
Band26	10MHz	16QAM	26915	27RB#0	4.895	5.740	PASS
Band26	10MHz	16QAM	26990	27RB#0	4.895	5.760	PASS
Band26	15MHz	QPSK	26865	75RB#0	13.457	14.910	PASS
Band26	15MHz	QPSK	26915	75RB#0	13.457	14.910	PASS
Band26	15MHz	QPSK	26965	75RB#0	13.397	14.760	PASS
Band26	15MHz	16QAM	26865	27RB#0	5.155	6.210	PASS
Band26	15MHz	16QAM	26915	27RB#0	5.095	6.150	PASS
Band26	15MHz	16QAM	26965	27RB#0	5.155	6.330	PASS

6.2. Test Plots

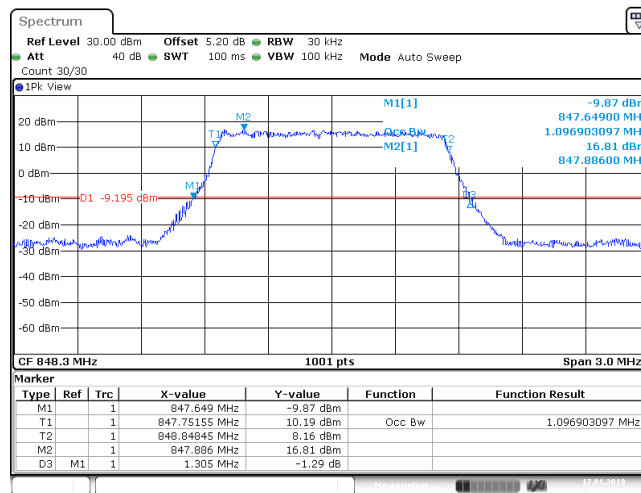
Band26_1.4MHz_QPSK_26797_6RB#0



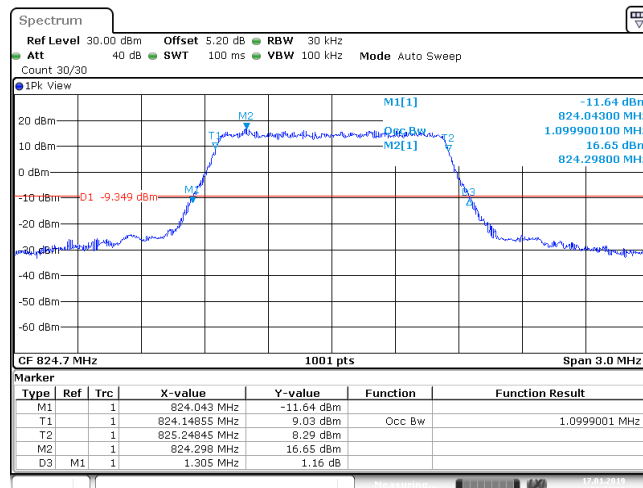
Band26_1.4MHz_QPSK_26915_6RB#0



Band26_1.4MHz_QPSK_27033_6RB#0

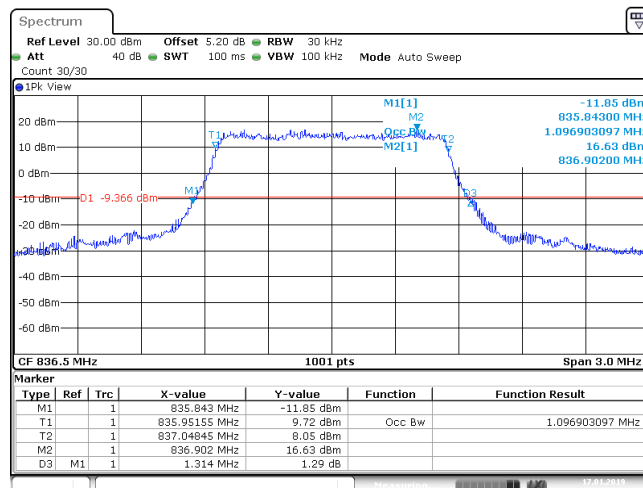


Band26_1.4MHz_16QAM_26797_6RB#0



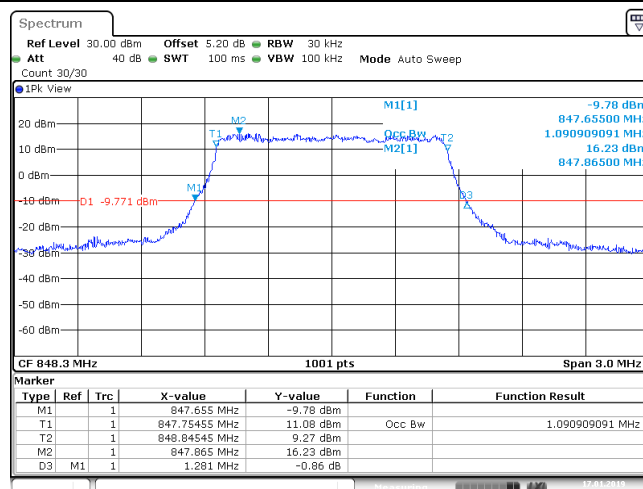
Date:17_JAN 2019 09:32:22

Band26_1.4MHz_16QAM_26915_6RB#0



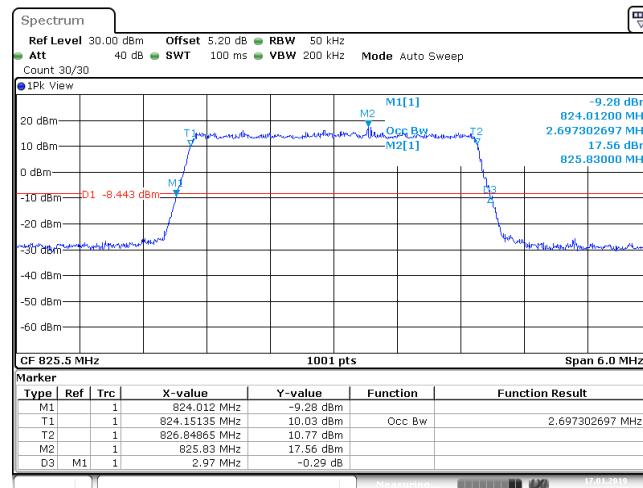
Date:17_JAN 2019 09:32:44

Band26_1.4MHz_16QAM_27033_6RB#0



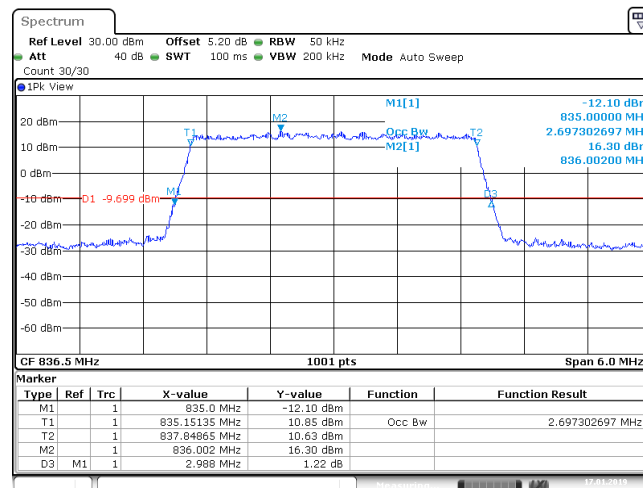
Date:17_JAN 2019 09:33:07

Band26_3MHz_QPSK_26805_15RB#0



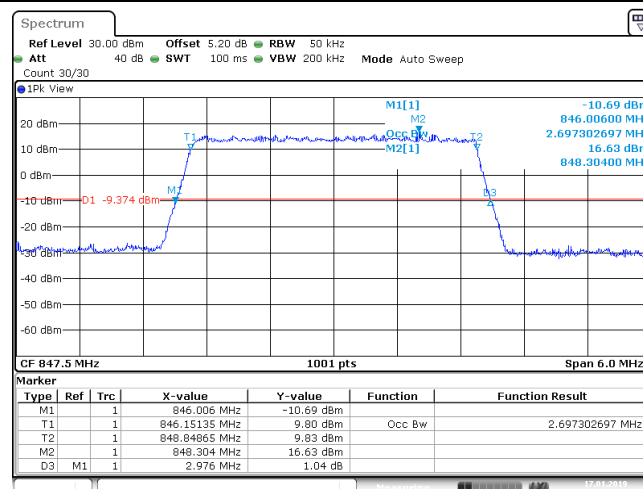
Date: 17_JAN 2019 09:34:17

Band26_3MHz_QPSK_26915_15RB#0



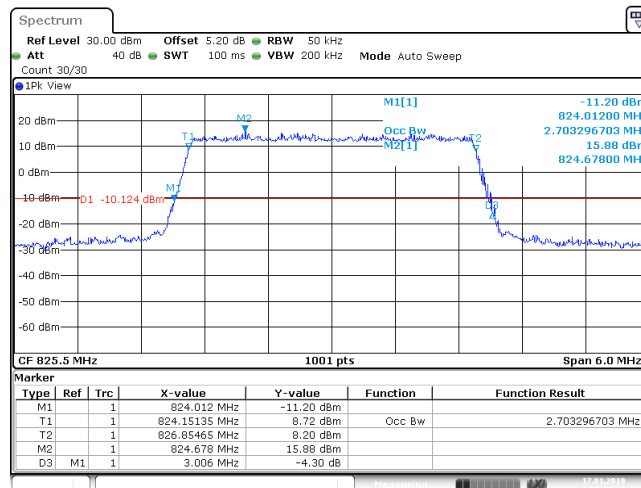
Date: 17_JAN 2019 09:34:40

Band26_3MHz_QPSK_27025_15RB#0



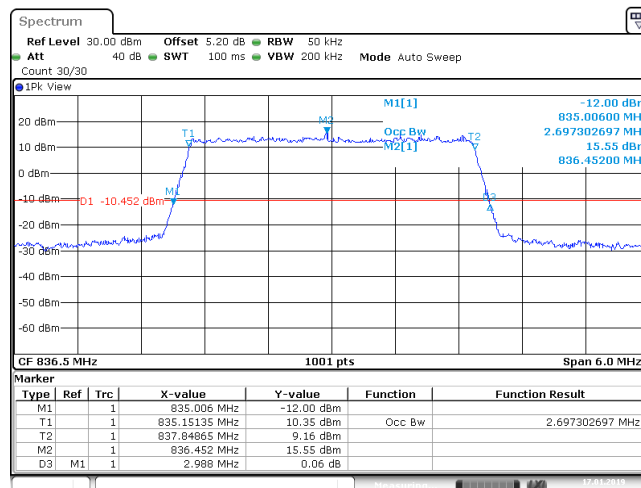
Date: 17_JAN 2019 09:35:03

Band26_3MHz_16QAM_26805_15RB#0



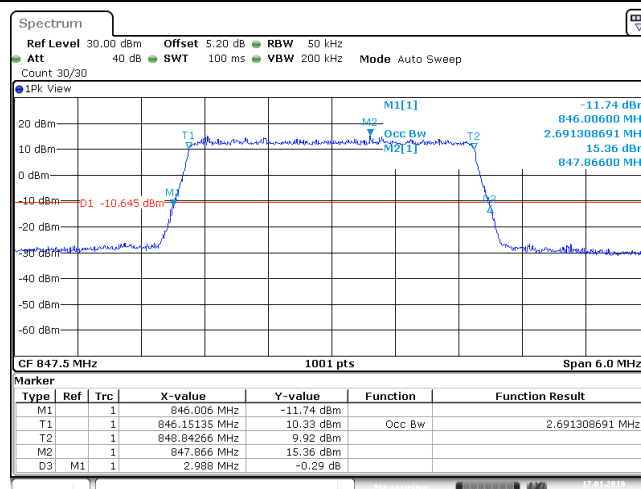
Date:17_JAN 2019 09:34:27

Band26_3MHz_16QAM_26915_15RB#0



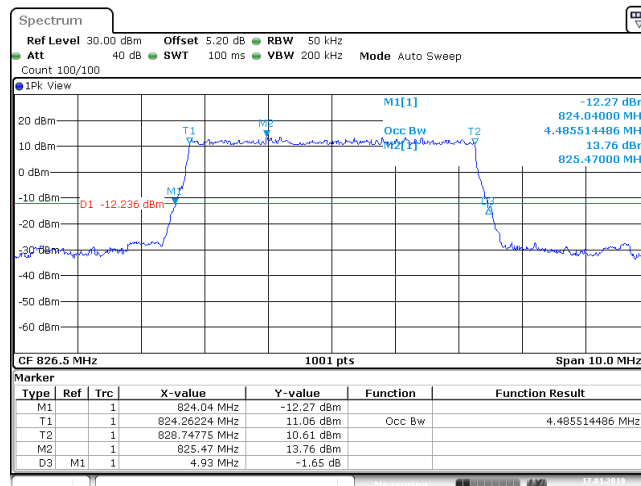
Date:17_JAN 2019 09:34:50

Band26_3MHz_16QAM_27025_15RB#0



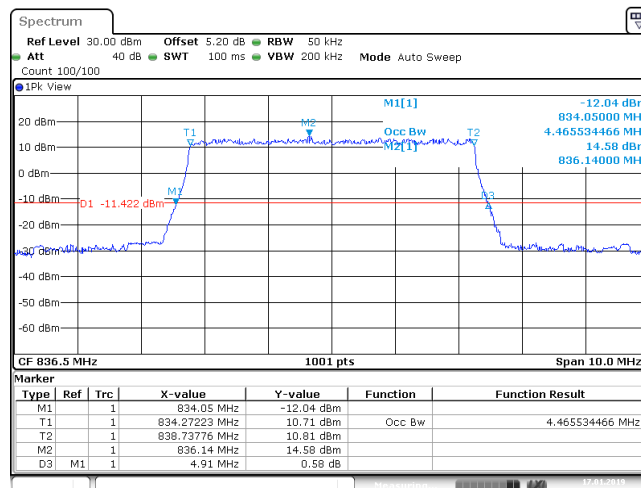
Date:17_JAN 2019 09:35:13

Band26_5MHz_QPSK_26815_25RB#0



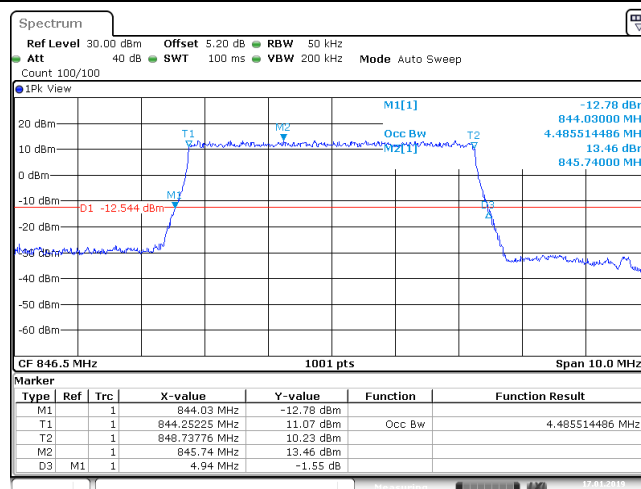
Date:17_JAN 2019 09:38:41

Band26_5MHz_QPSK_26915_25RB#0



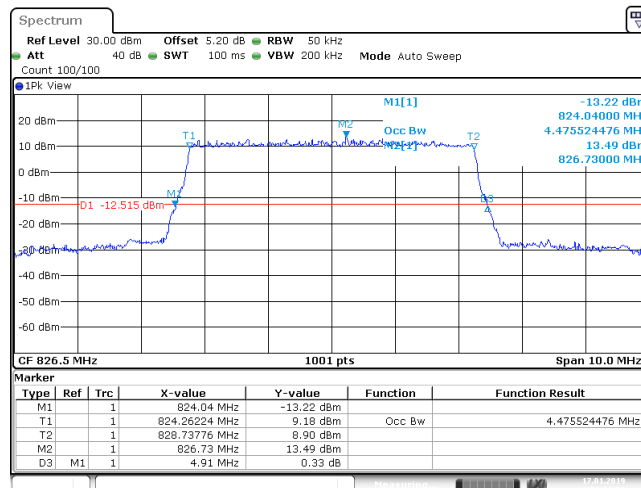
Date:17_JAN 2019 09:39:18

Band26_5MHz_QPSK_27015_25RB#0



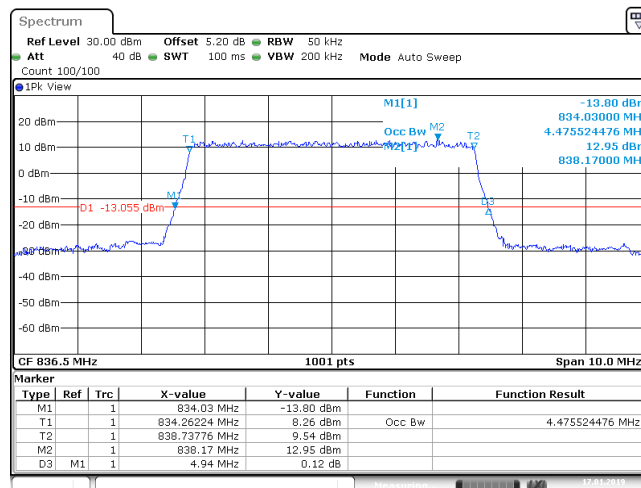
Date:17_JAN 2019 09:39:54

Band26_5MHz_16QAM_26815_25RB#0



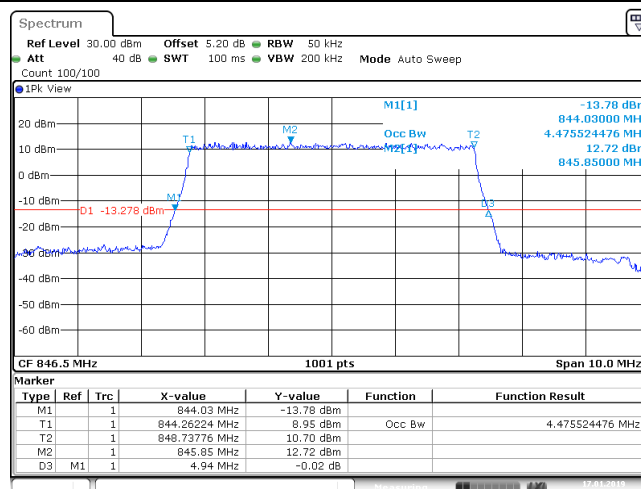
Date:17_JAN 2019 09:38:58

Band26_5MHz_16QAM_26915_25RB#0



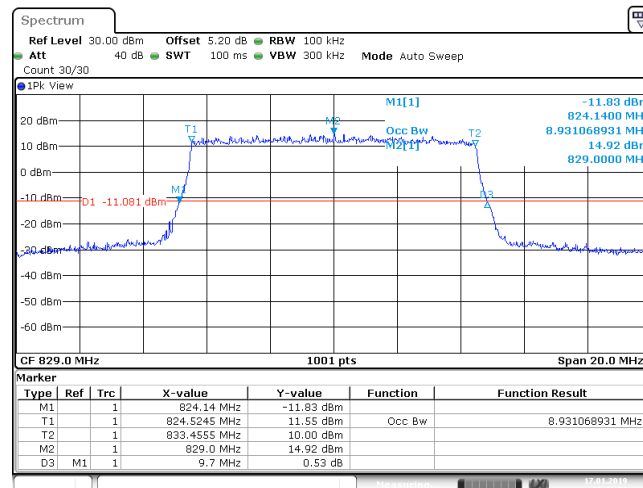
Date:17_JAN 2019 09:39:35

Band26_5MHz_16QAM_27015_25RB#0



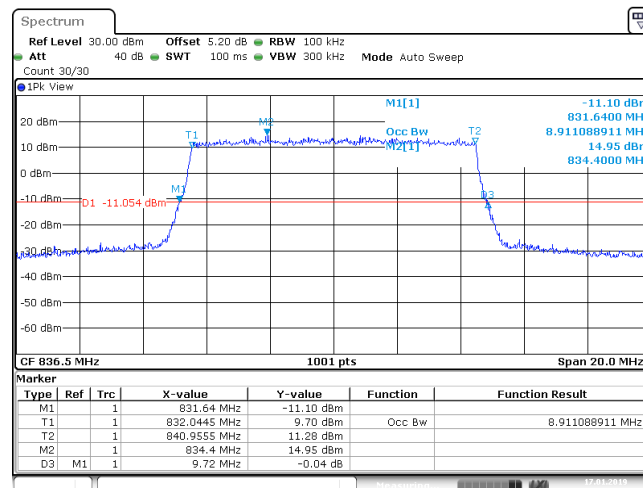
Date:17_JAN 2019 09:40:12

Band26_10MHz_QPSK_26840_50RB#0



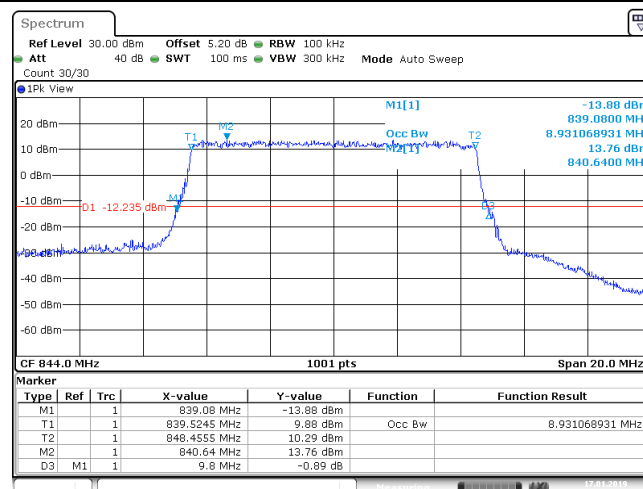
Date:17_JAN 2019 09:41:39

Band26_10MHz_QPSK_26915_50RB#0



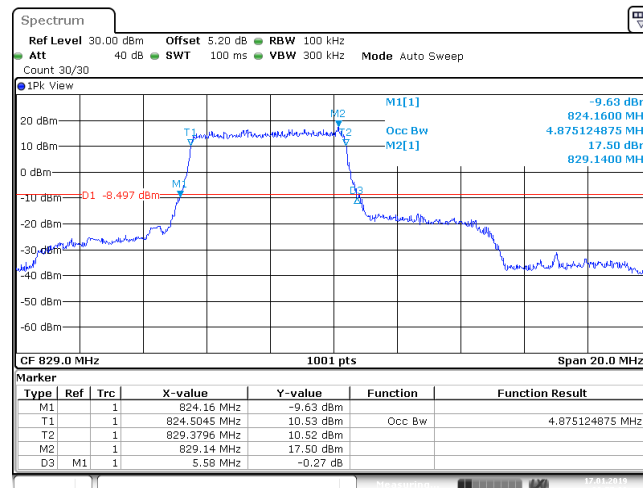
Date:17_JAN 2019 09:41:51

Band26_10MHz_QPSK_26990_50RB#0



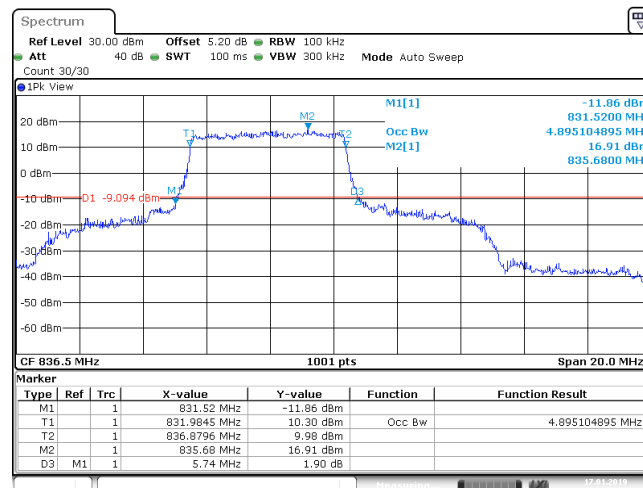
Date:17_JAN 2019 09:42:03

Band26_10MHz_16QAM_26840_27RB#0



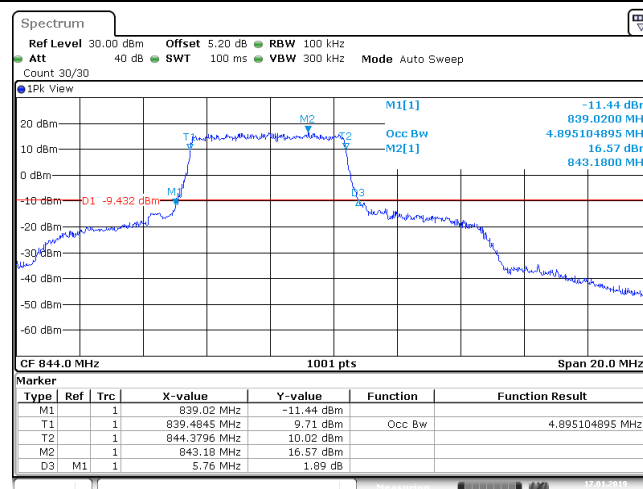
Date:17 JAN 2019 09:57:07

Band26_10MHz_16QAM_26915_27RB#0



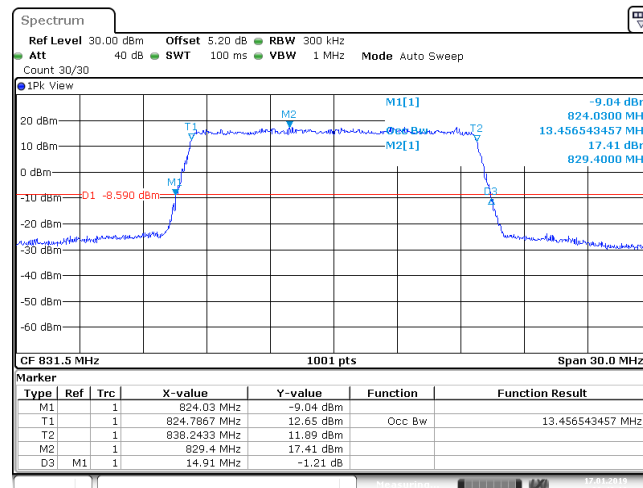
Date:17 JAN 2019 10:01:28

Band26_10MHz_16QAM_26990_27RB#0



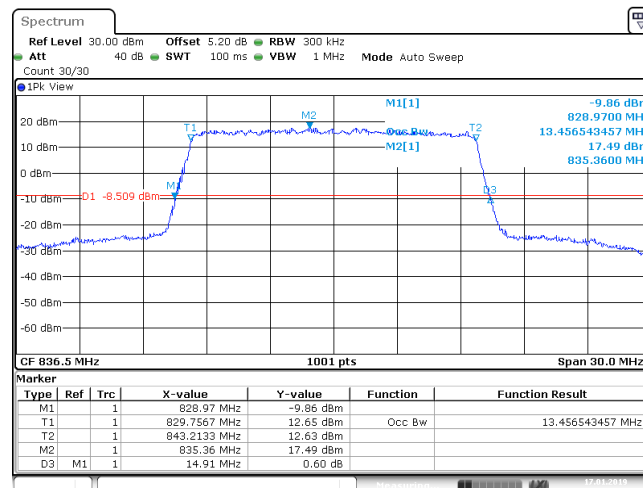
Date:17 JAN 2019 10:02:51

Band26_15MHz_QPSK_26865_75RB#0



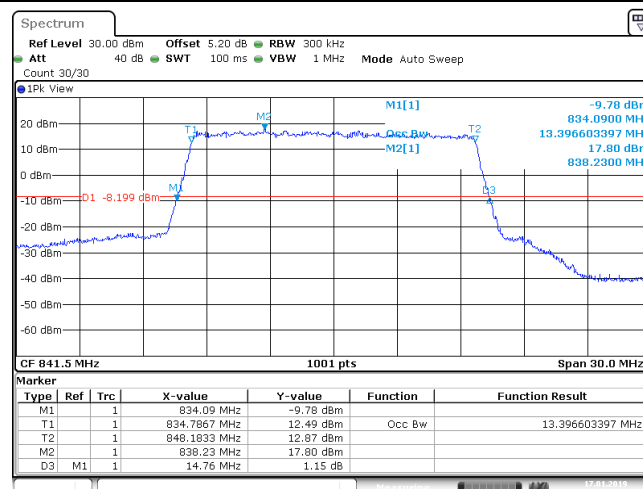
Date:17_JAN 2019 09:43:13

Band26_15MHz_QPSK_26915_75RB#0



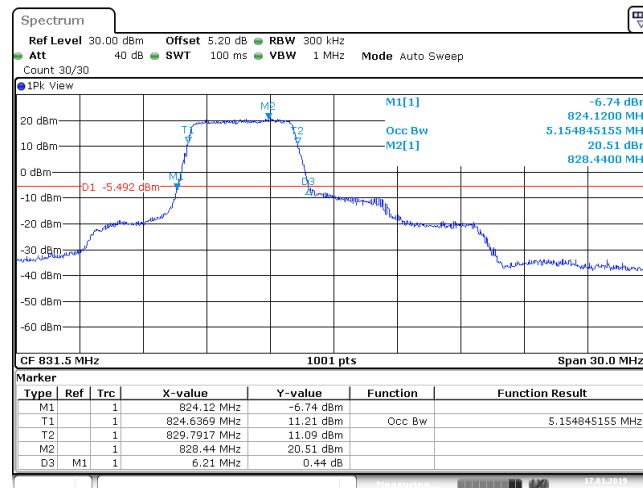
Date:17_JAN 2019 09:43:25

Band26_15MHz_QPSK_26965_75RB#0



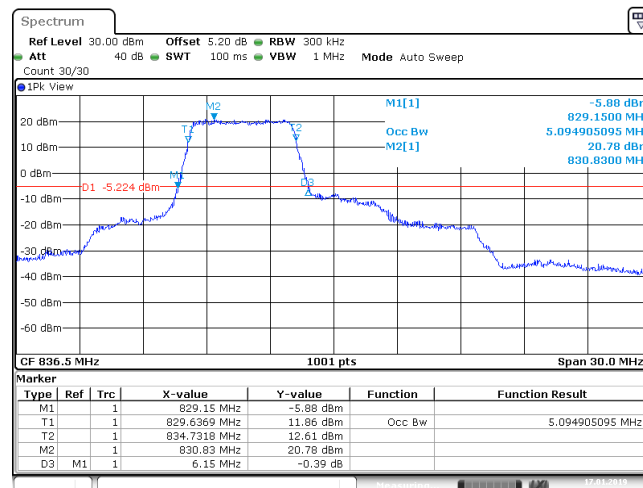
Date:17_JAN 2019 09:43:37

Band26_15MHz_16QAM_26865_27RB#0



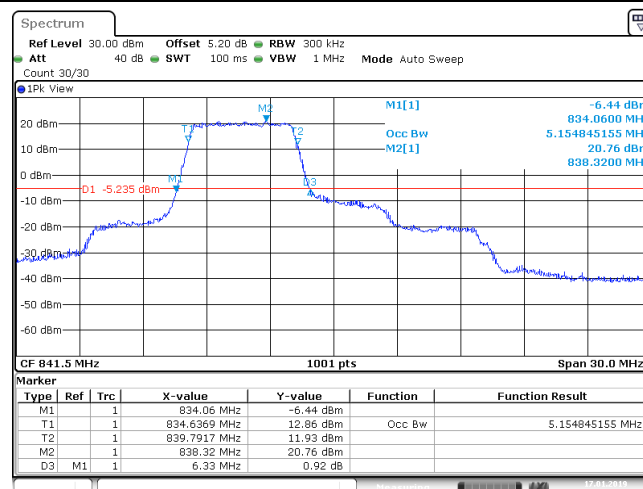
Date:17_JAN 2019 10:03:56

Band26_15MHz_16QAM_26915_27RB#0



Date:17_JAN 2019 10:04:08

Band26_15MHz_16QAM_26965_27RB#0

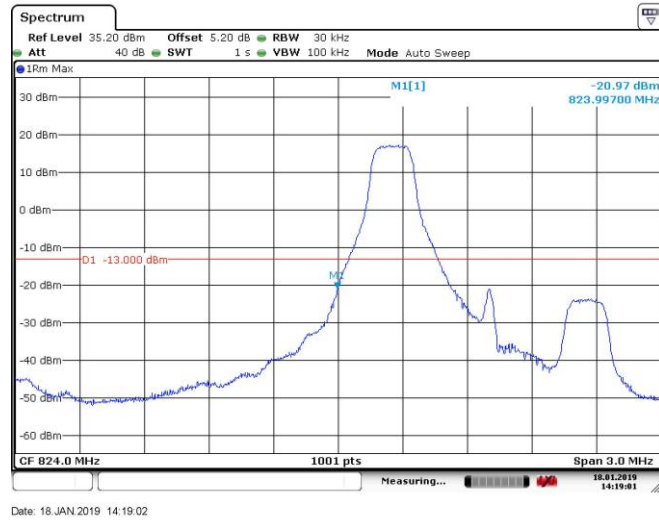


Date:17_JAN 2019 10:04:20

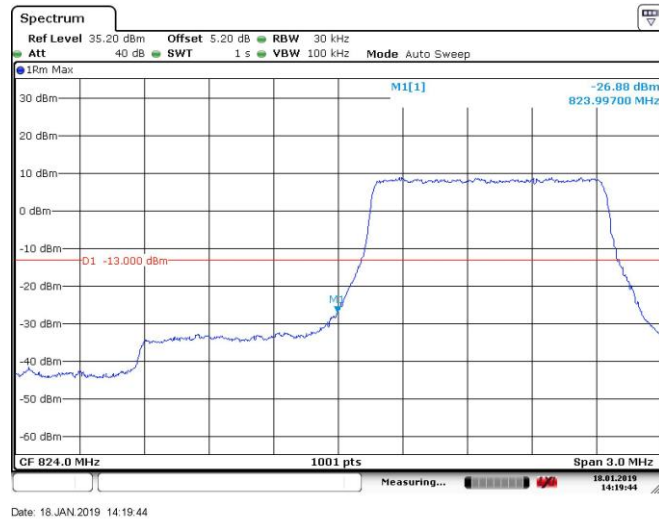
7. Band Edge Compliance

7.1. Test Plots

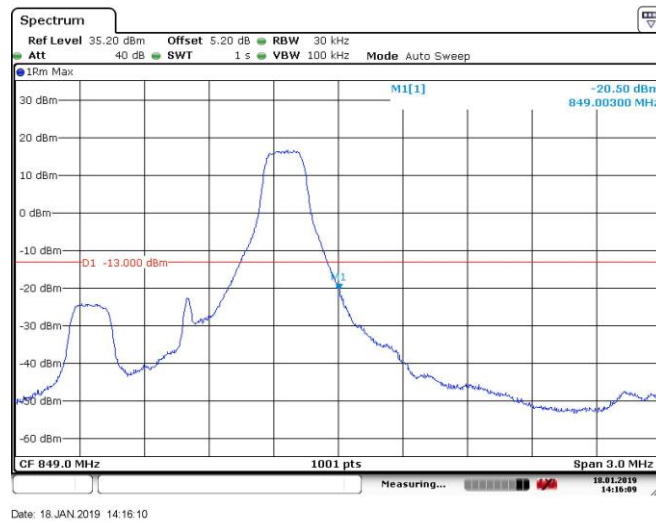
Band26_1.4MHz_QPSK_26797_1RB#0



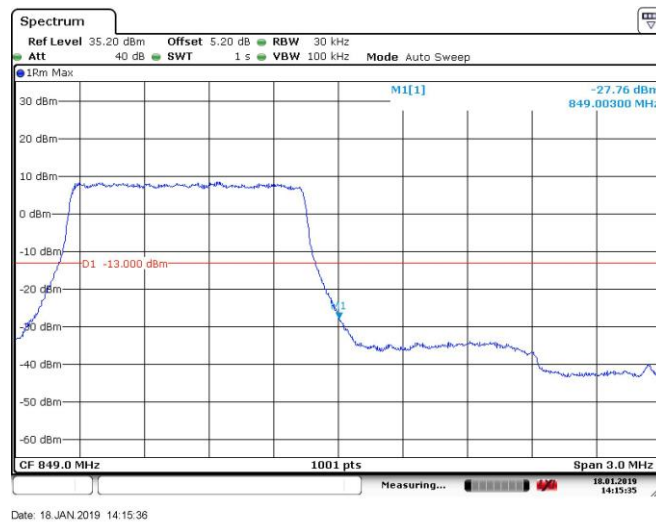
Band26_1.4MHz_QPSK_26797_6RB#0



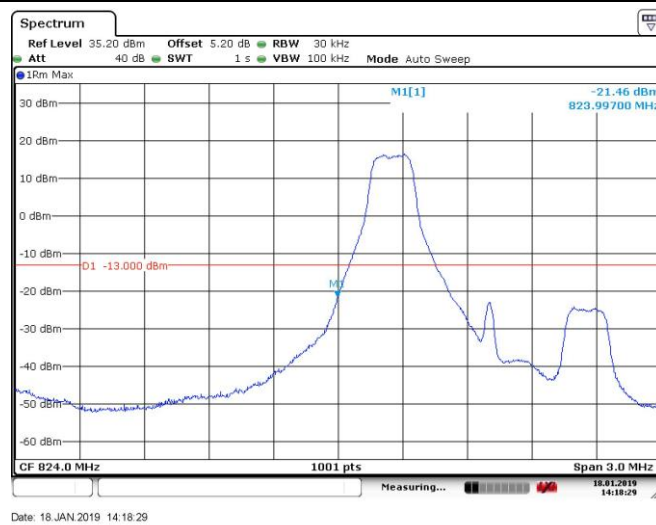
Band26_1.4MHz_QPSK_27033_1RB#5



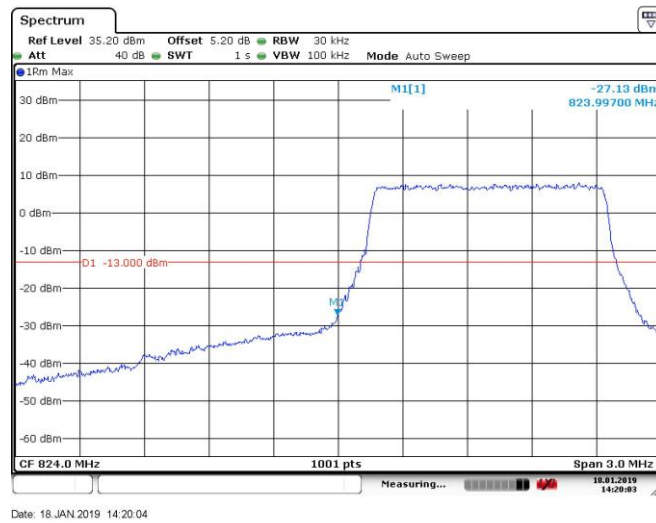
Band26_1.4MHz_QPSK_27033_6RB#0



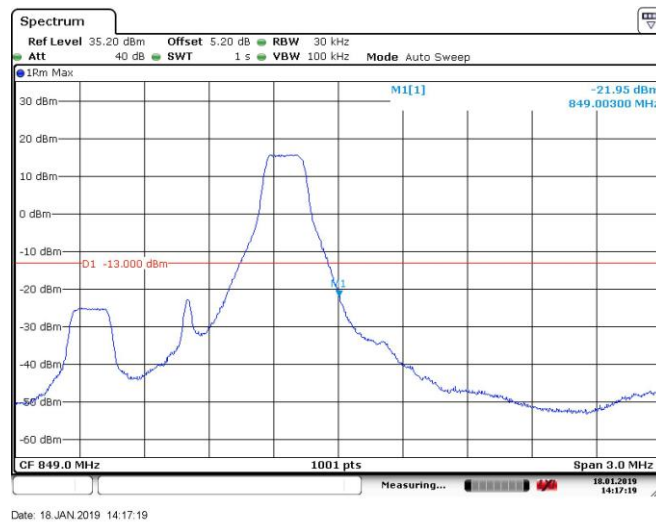
Band26_1.4MHz_16QAM_26797_1RB#0



Band26_1.4MHz_16QAM_26797_6RB#0



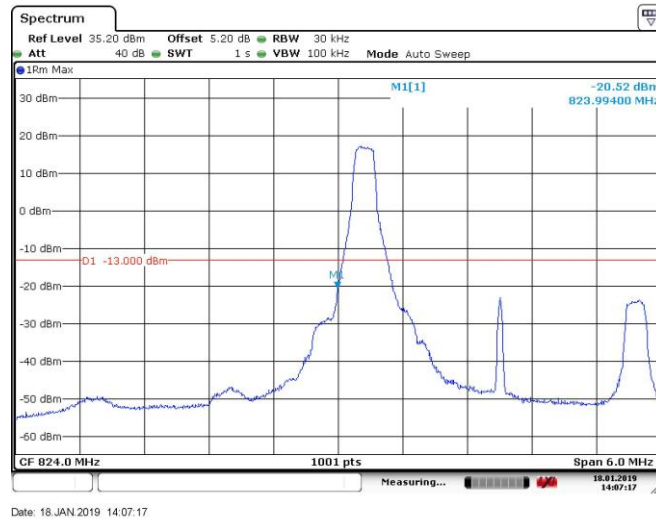
Band26_1.4MHz_16QAM_27033_1RB#5



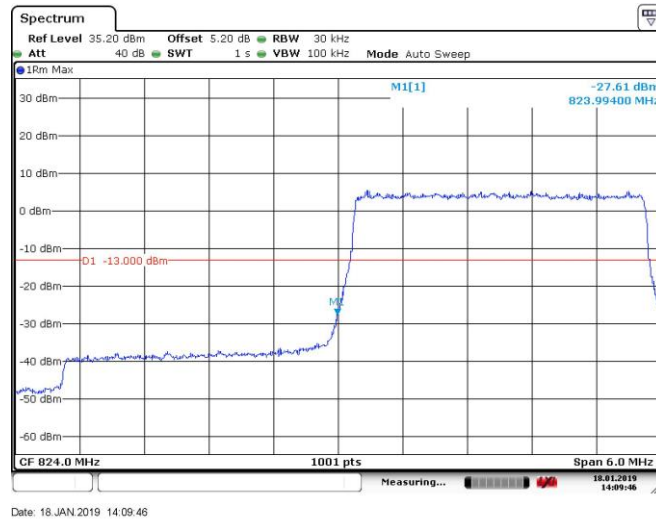
Band26_1.4MHz_16QAM_27033_6RB#0



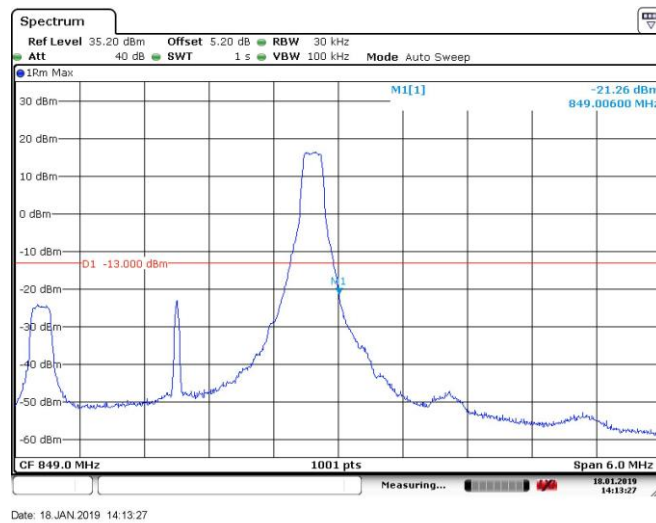
Band26_3MHz_QPSK_26805_1RB#0



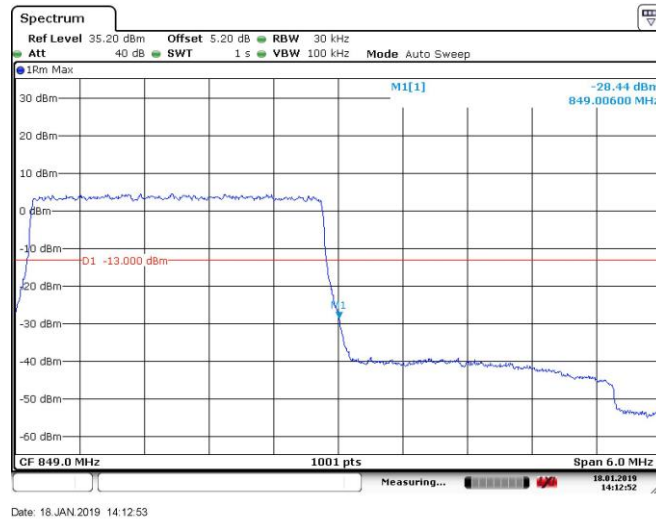
Band26_3MHz_QPSK_26805_15RB#0



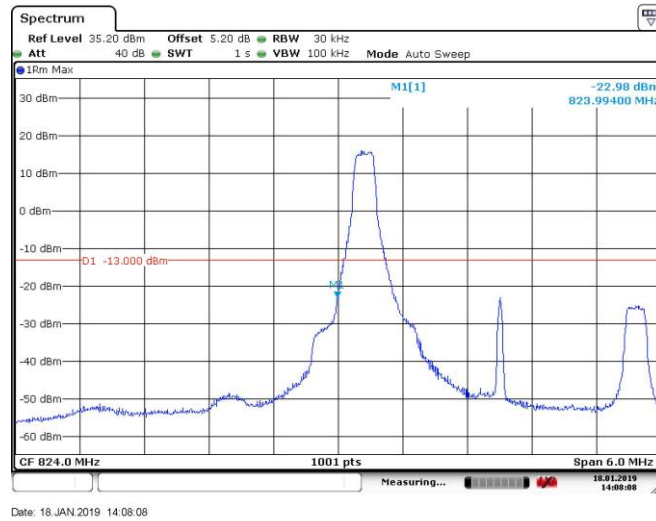
Band26_3MHz_QPSK_27025_1RB#14



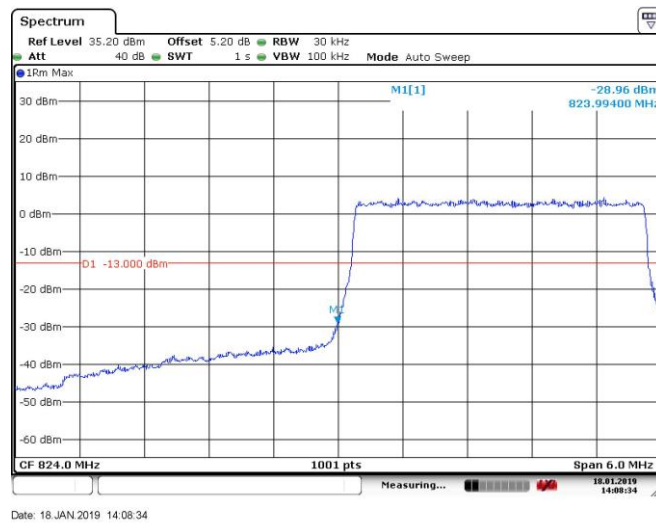
Band26_3MHz_QPSK_27025_15RB#0



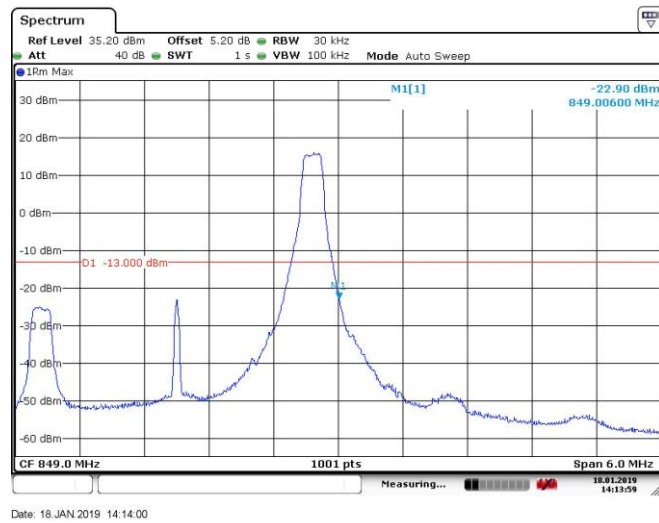
Band26_3MHz_16QAM_26805_1RB#0



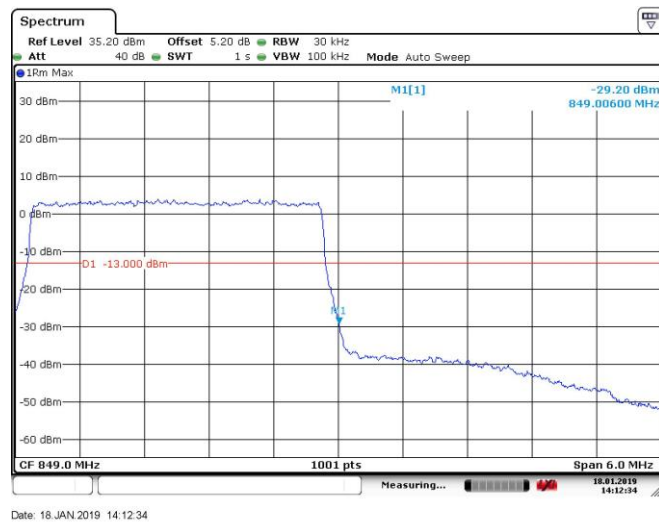
Band26_3MHz_16QAM_26805_15RB#0



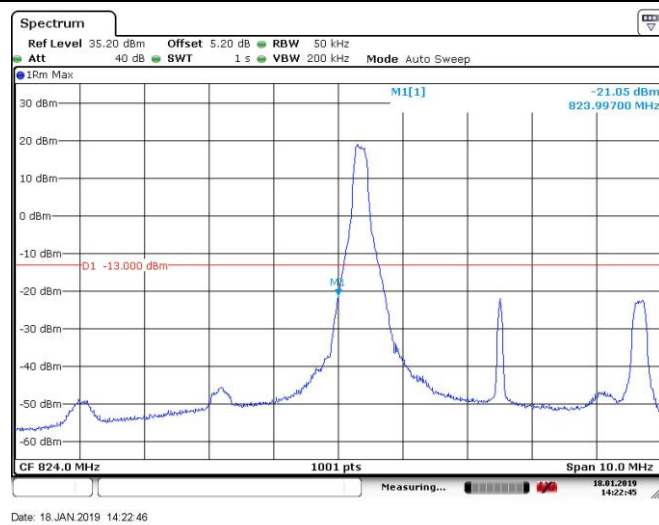
Band26_3MHz_16QAM_27025_1RB#14



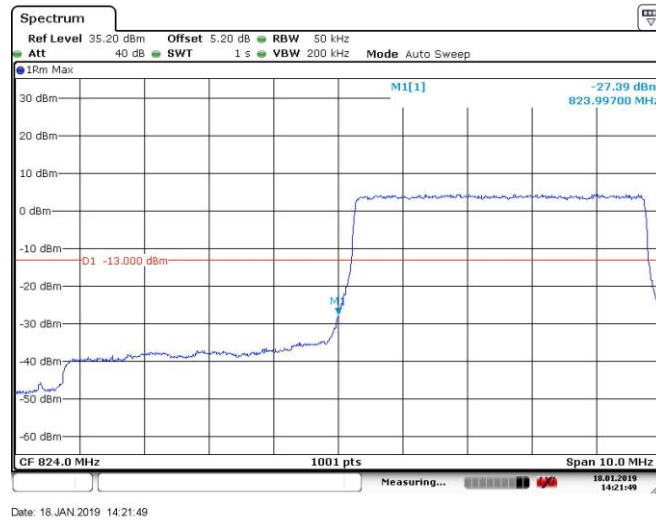
Band26_3MHz_16QAM_27025_15RB#0



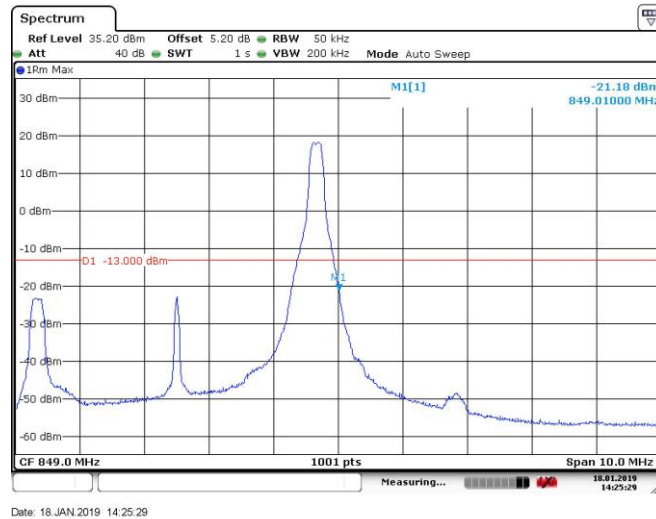
Band26_5MHz_QPSK_26815_1RB#0



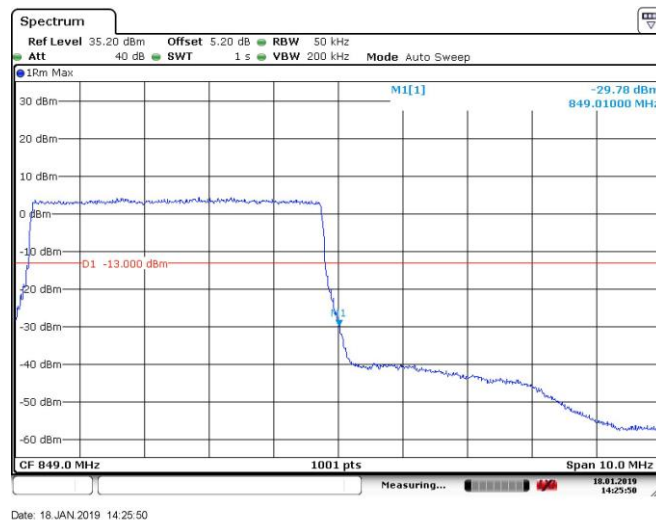
Band26_5MHz_QPSK_26815_25RB#0



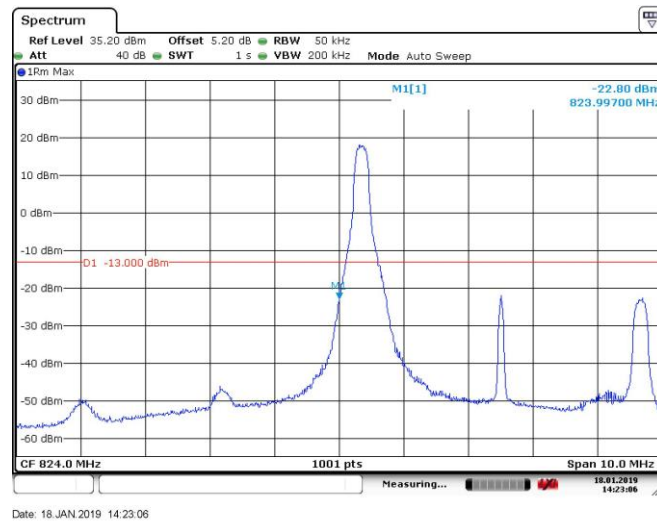
Band26_5MHz_QPSK_27015_1RB#24



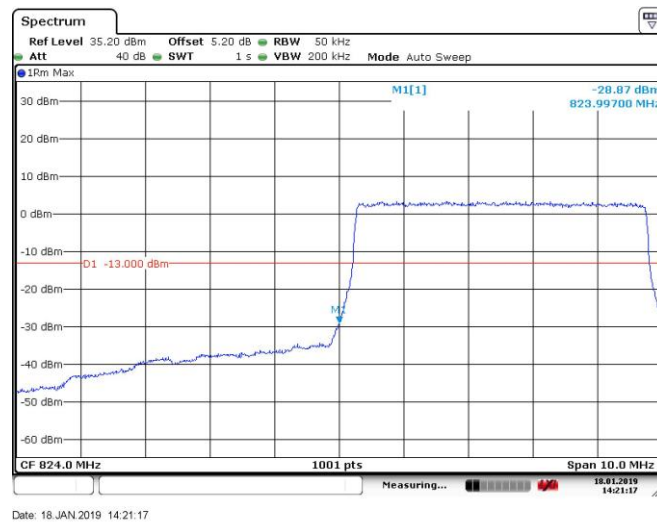
Band26_5MHz_QPSK_27015_25RB#0



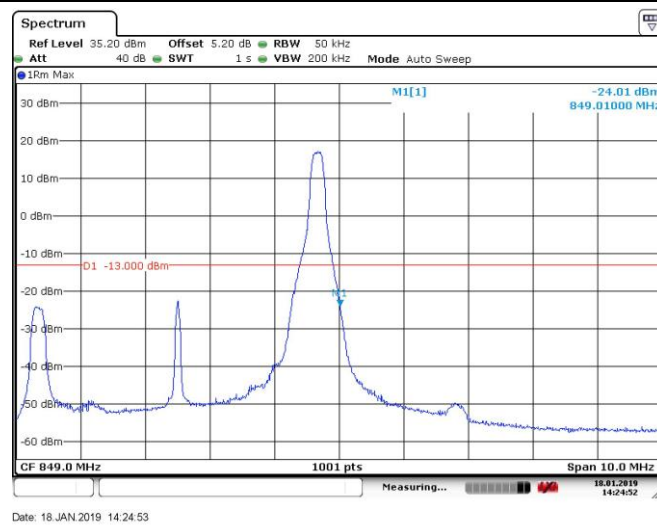
Band26_5MHz_16QAM_26815_1RB#0



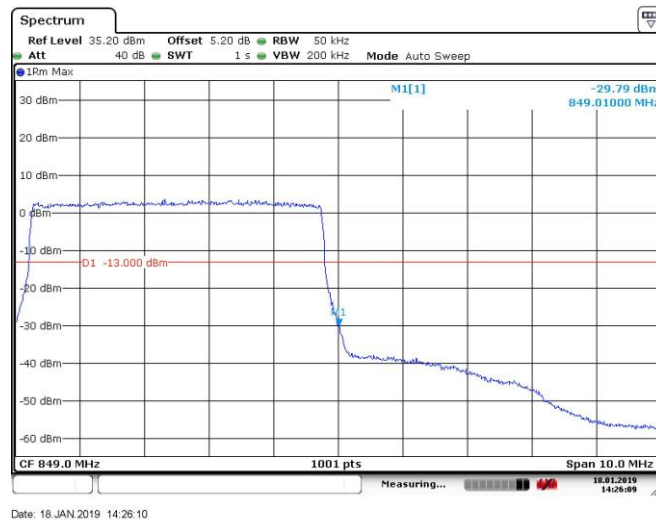
Band26_5MHz_16QAM_26815_25RB#0



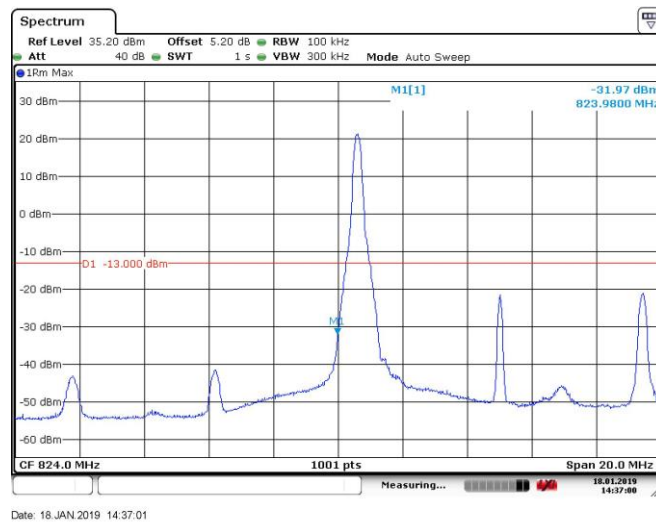
Band26_5MHz_16QAM_27015_1RB#24



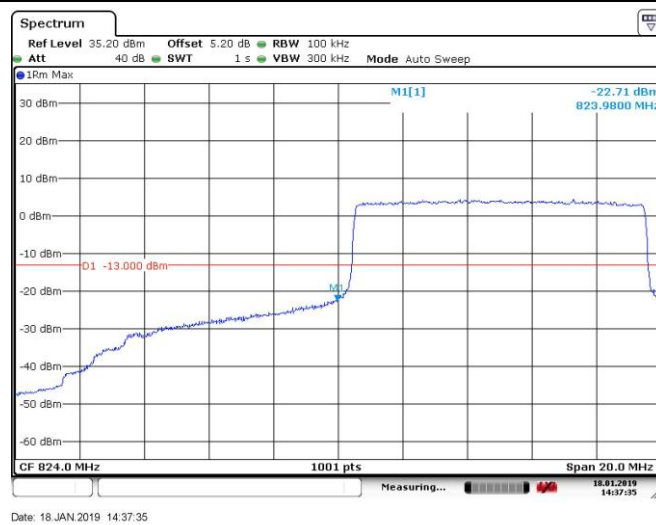
Band26_5MHz_16QAM_27015_25RB#0



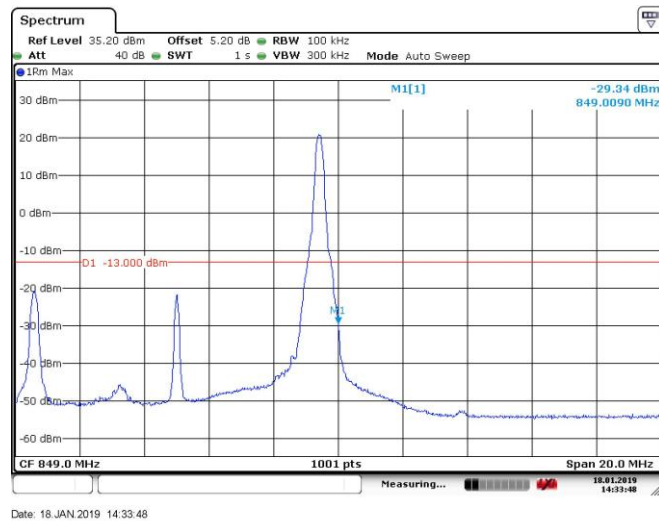
Band26_10MHz_QPSK_26840_1RB#0



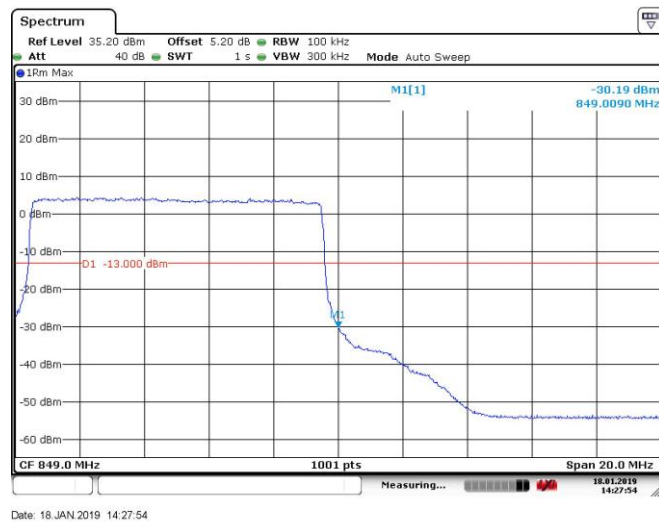
Band26_10MHz_QPSK_26840_50RB#0



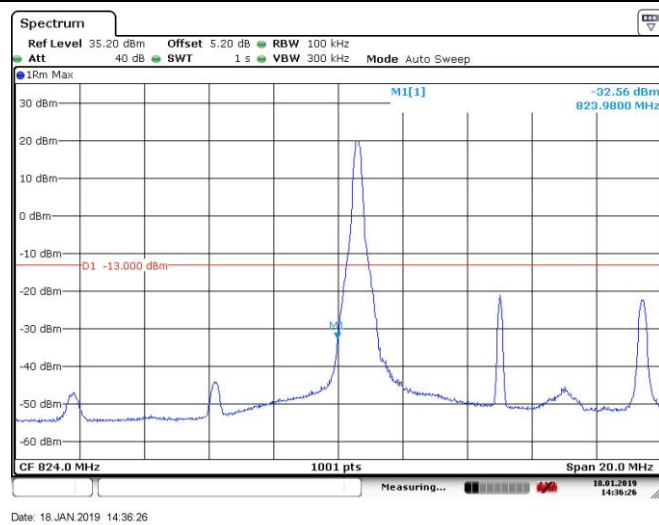
Band26_10MHz_QPSK_26990_1RB#49



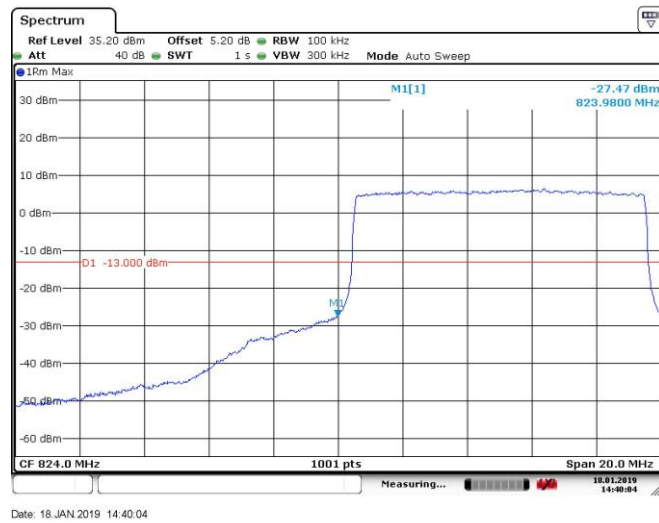
Band26_10MHz_QPSK_26990_50RB#0



Band26_10MHz_16QAM_26840_1RB#0

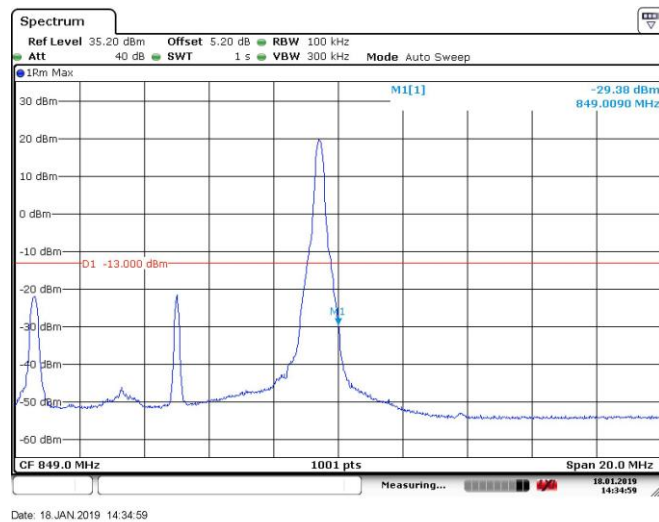


Band26_10MHz_16QAM_26840_27RB#0



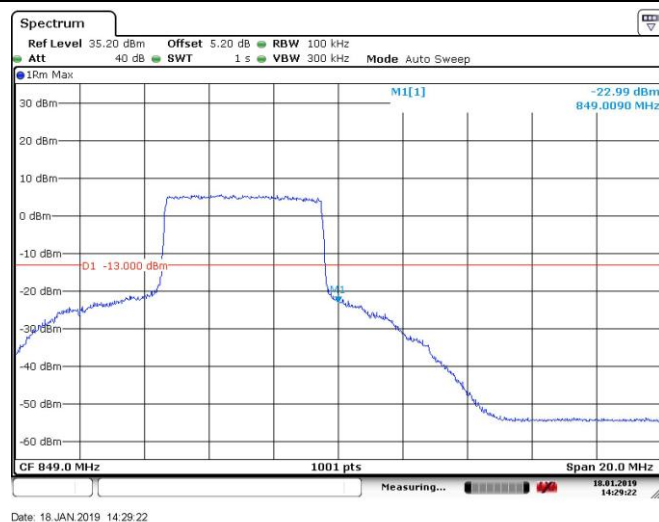
Date: 18.JAN.2019 14:40:04

Band26_10MHz_16QAM_26990_1RB#49



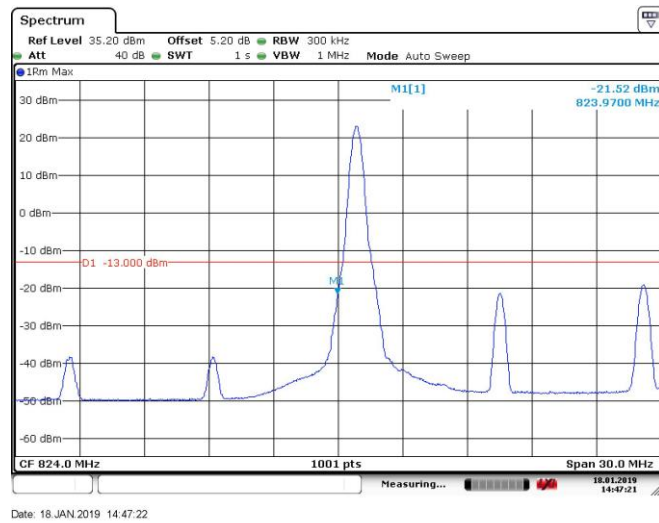
Date: 18.JAN.2019 14:34:59

Band26_10MHz_16QAM_26990_27RB#23

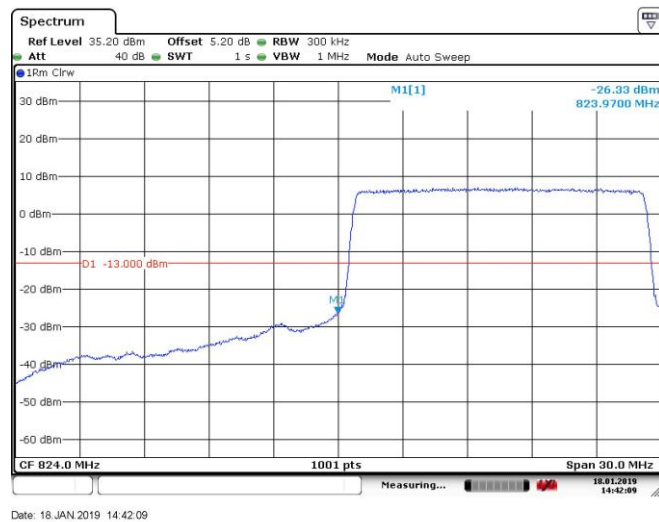


Date: 18.JAN.2019 14:29:22

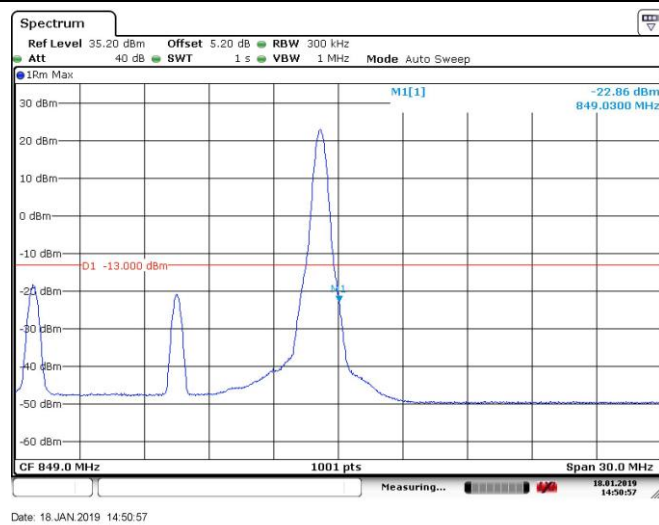
Band26_15MHz_QPSK_26865_1RB#0



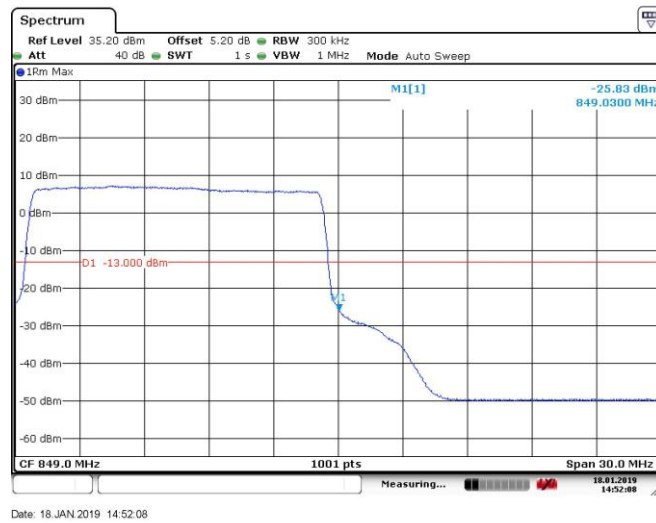
Band26_15MHz_QPSK_26865_75RB#0



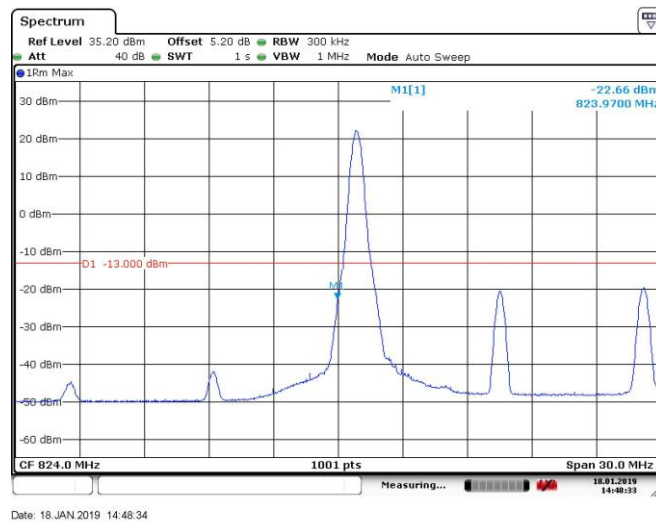
Band26_15MHz_QPSK_26965_1RB#74



Band26_15MHz_QPSK_26965_75RB#0



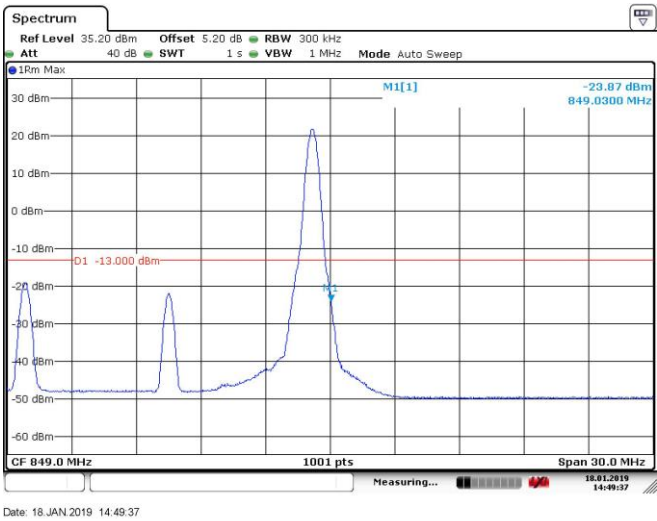
Band26_15MHz_16QAM_26865_1RB#0



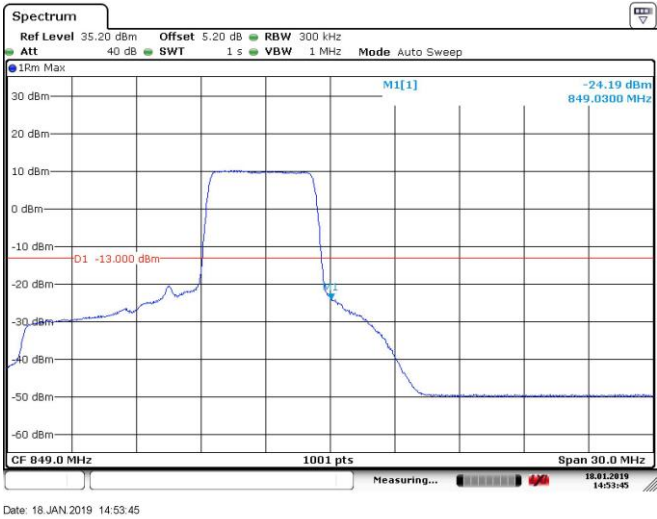
Band26_15MHz_16QAM_26865_27RB#0



Band26_15MHz_16QAM_26965_1RB#74



Band26_15MHz_16QAM_26965_27RB#48

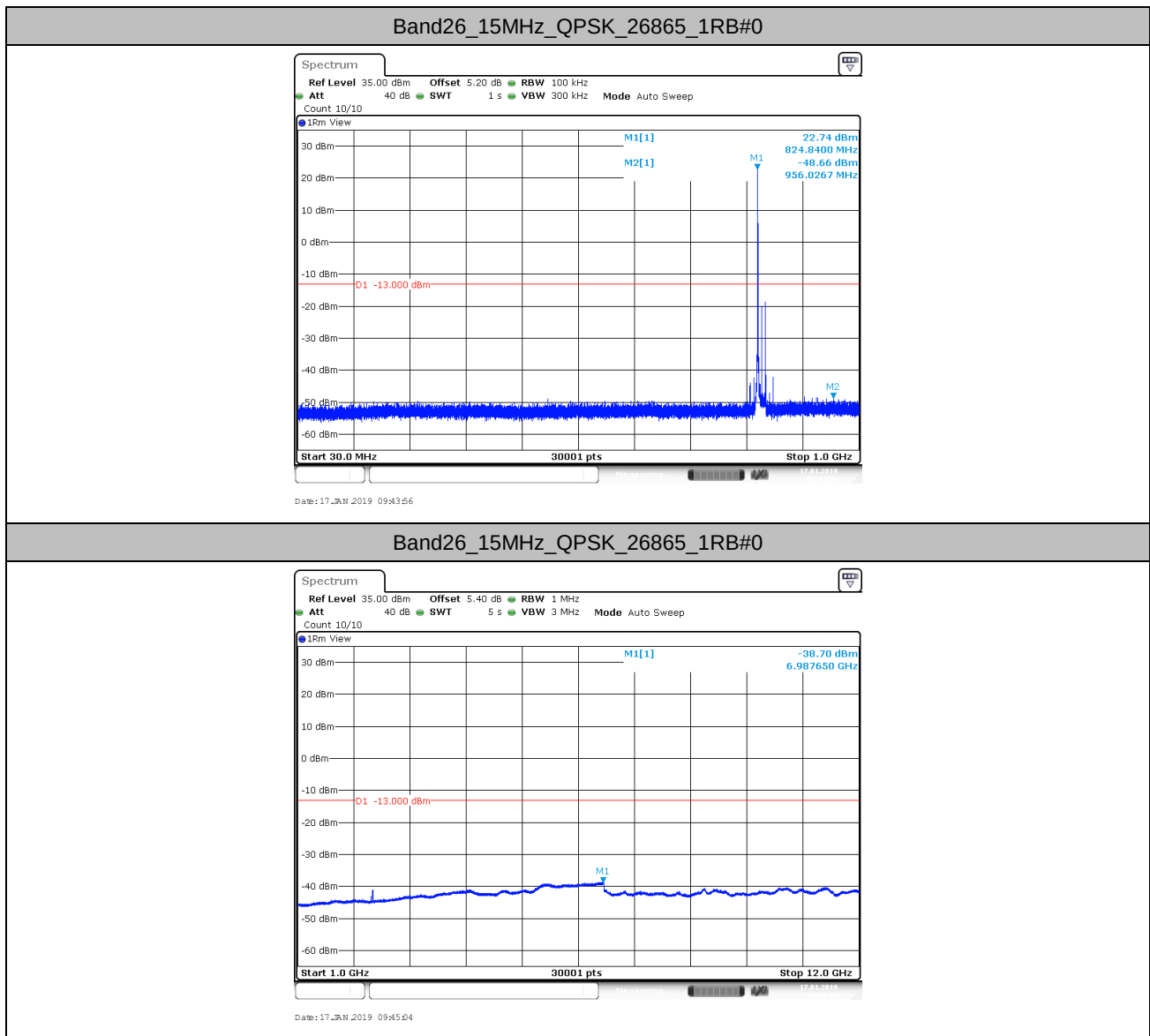


8. Spurious Emission at Antenna Terminal

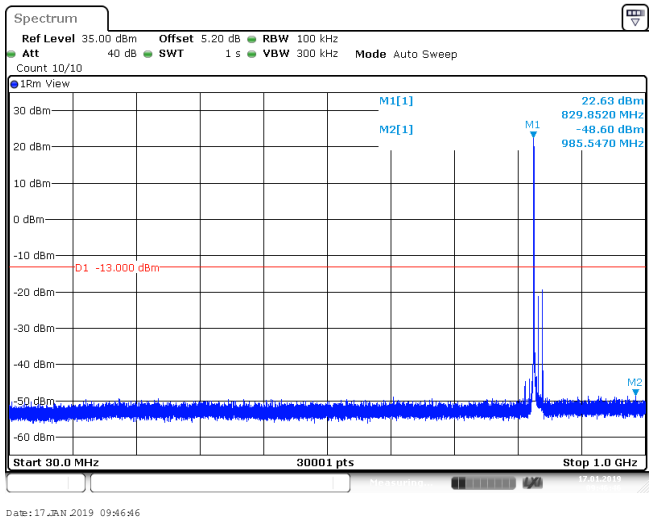
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

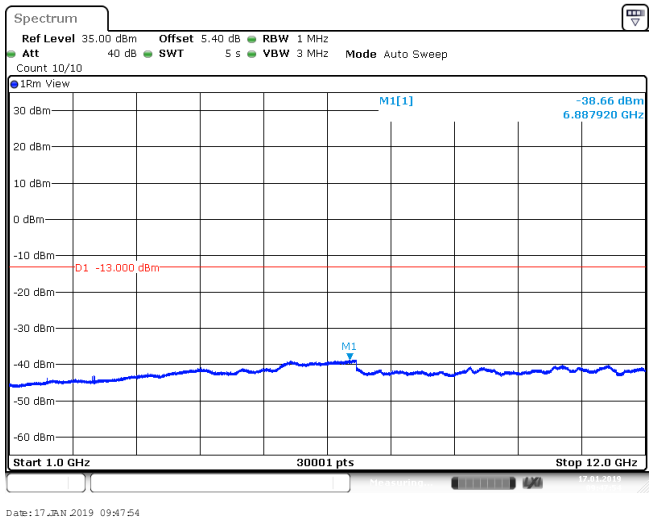
8.1. Test Plots



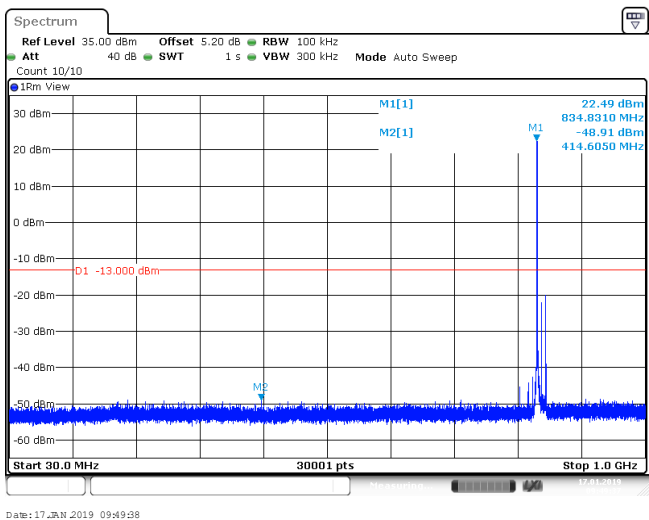
Band26_15MHz_QPSK_26915_1RB#0



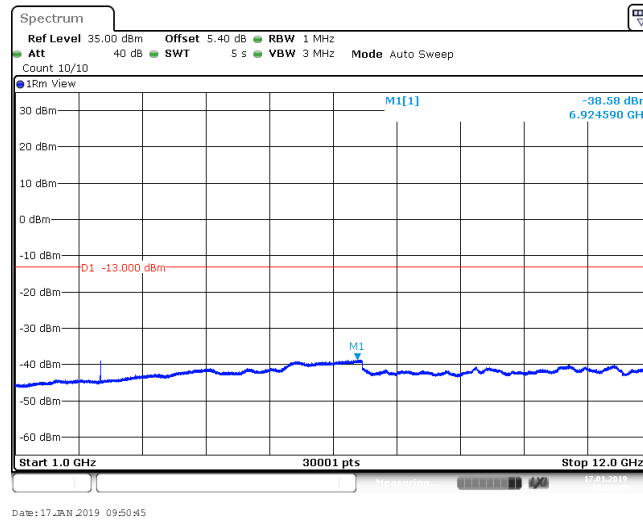
Band26_15MHz_QPSK_26915_1RB#0



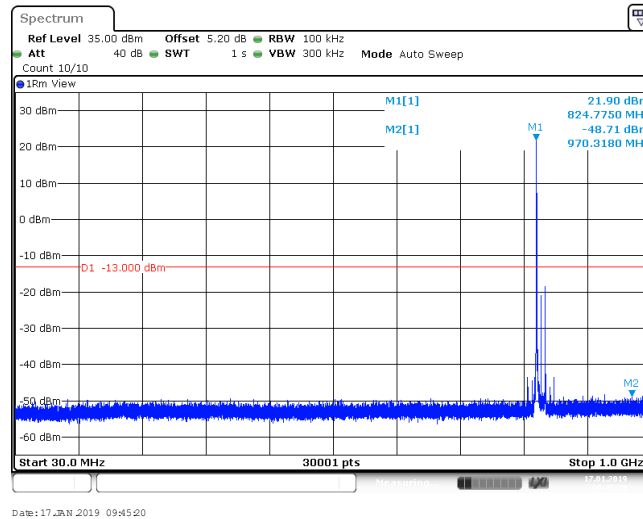
Band26_15MHz_QPSK_26965_1RB#0



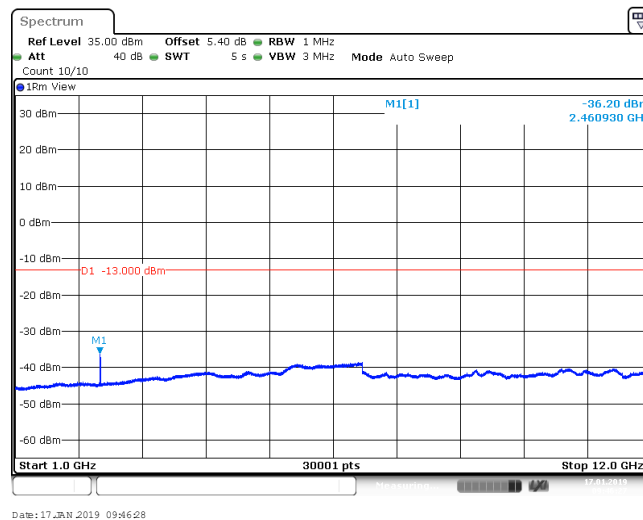
Band26_15MHz_QPSK_26965_1RB#0



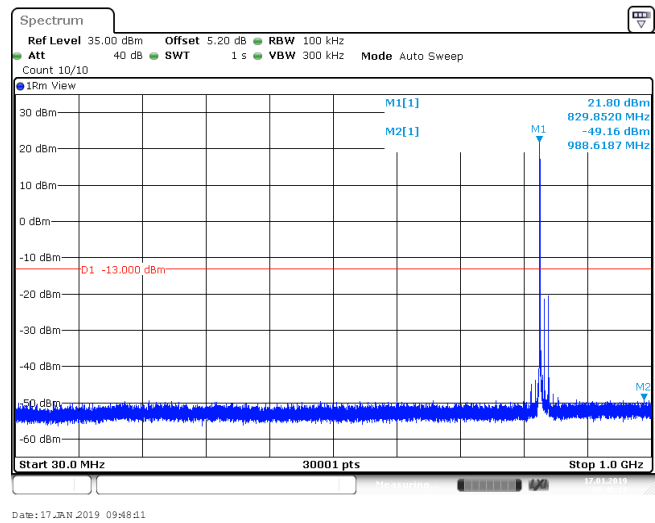
Band26_15MHz_16QAM_26865_1RB#0



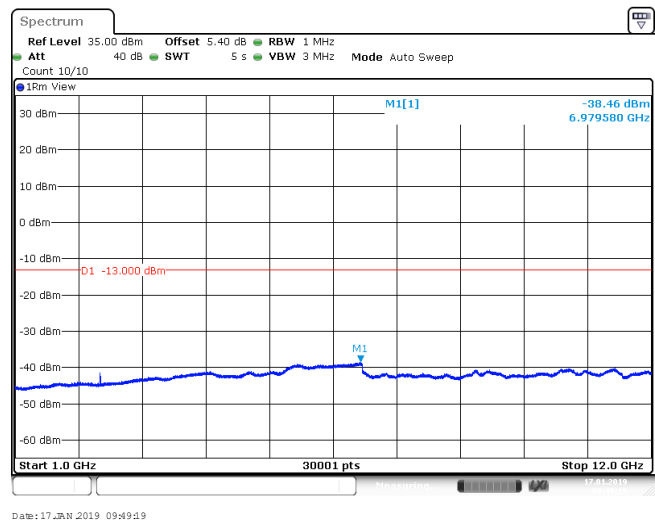
Band26_15MHz_16QAM_26865_1RB#0



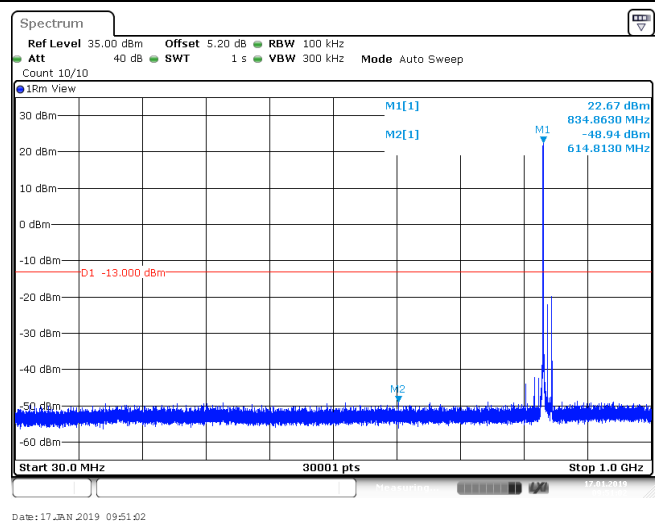
Band26_15MHz_16QAM_26915_1RB#0



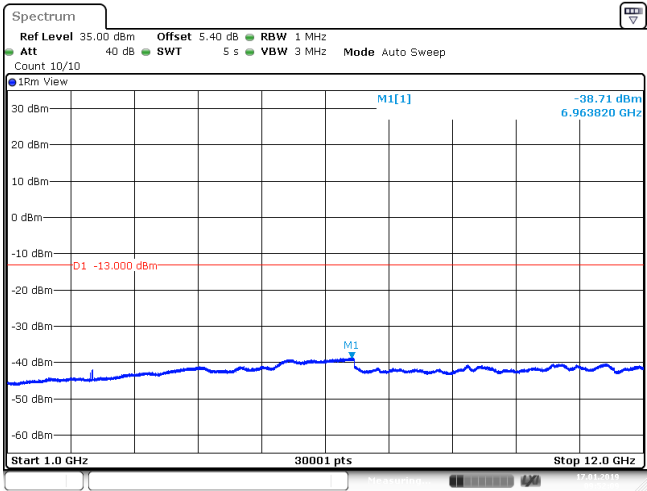
Band26_15MHz_16QAM_26915_1RB#0



Band26_15MHz_16QAM_26965_1RB#0



Band26_15MHz_16QAM_26965_1RB#0



Date: 17 JAN 2019 09:52:10

JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZ-R12-2200353

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	VH	NT	-2.73	-0.003281	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	VL	NT	0.89	0.001074	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	VN	NT	5.34	0.006428	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	VH	NT	-14.38	-0.017192	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	VL	NT	-1.10	-0.001314	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	VN	NT	0.57	0.000686	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	VH	NT	-10.90	-0.012958	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	VL	NT	-6.30	-0.007492	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	VN	NT	-4.79	-0.005688	±2.5	PASS
Band26	15MHz	16QAM	26865	27RB#0	VH	NT	10.56	0.012695	±2.5	PASS
Band26	15MHz	16QAM	26865	27RB#0	VL	NT	12.25	0.014727	±2.5	PASS
Band26	15MHz	16QAM	26865	27RB#0	VN	NT	4.16	0.005005	±2.5	PASS
Band26	15MHz	16QAM	26915	27RB#0	VH	NT	-10.86	-0.012982	±2.5	PASS
Band26	15MHz	16QAM	26915	27RB#0	VL	NT	8.97	0.010723	±2.5	PASS
Band26	15MHz	16QAM	26915	27RB#0	VN	NT	2.18	0.002601	±2.5	PASS
Band26	15MHz	16QAM	26965	27RB#0	VH	NT	14.70	0.017467	±2.5	PASS
Band26	15MHz	16QAM	26965	27RB#0	VL	NT	-2.48	-0.002944	±2.5	PASS
Band26	15MHz	16QAM	26965	27RB#0	VN	NT	-7.92	-0.009412	±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	5.79	0.006962	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	NV	-20	2.06	0.002483	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	NV	0	12.52	0.015053	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	NV	10	4.13	0.004972	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	NV	20	1.86	0.002234	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	NV	30	3.11	0.003742	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	NV	40	-11.94	-0.014364	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	NV	50	7.03	0.008453	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	NV	-30	8.82	0.010542	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	NV	-20	7.93	0.009484	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	NV	0	14.13	0.016896	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	NV	10	14.42	0.017239	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	NV	20	14.45	0.017268	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	NV	30	5.13	0.006132	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	NV	40	-7.30	-0.008726	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	NV	50	-4.79	-0.005725	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	NV	-30	2.93	0.003482	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	NV	-20	-6.53	-0.007763	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	NV	0	-2.50	-0.002965	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	NV	10	-2.22	-0.002642	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	NV	20	14.05	0.016691	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	NV	30	11.21	0.013317	±2.5	PASS

JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZ-R12-2200353

Band26	15MHz	QPSK	26965	75RB#0	NV	40	-5.53	-0.006568	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	NV	50	4.76	0.005653	±2.5	PASS
Band26	15MHz	16QAM	26865	27RB#0	NV	-30	-14.65	-0.017613	±2.5	PASS
Band26	15MHz	16QAM	26865	27RB#0	NV	-20	-12.71	-0.015289	±2.5	PASS
Band26	15MHz	16QAM	26865	27RB#0	NV	0	13.24	0.015920	±2.5	PASS
Band26	15MHz	16QAM	26865	27RB#0	NV	10	9.97	0.011993	±2.5	PASS
Band26	15MHz	16QAM	26865	27RB#0	NV	20	10.16	0.012224	±2.5	PASS
Band26	15MHz	16QAM	26865	27RB#0	NV	30	-5.06	-0.006088	±2.5	PASS
Band26	15MHz	16QAM	26865	27RB#0	NV	40	-5.01	-0.006029	±2.5	PASS
Band26	15MHz	16QAM	26865	27RB#0	NV	50	7.29	0.008763	±2.5	PASS
Band26	15MHz	16QAM	26915	27RB#0	NV	-30	-10.13	-0.012111	±2.5	PASS
Band26	15MHz	16QAM	26915	27RB#0	NV	-20	6.58	0.007871	±2.5	PASS
Band26	15MHz	16QAM	26915	27RB#0	NV	0	0.85	0.001017	±2.5	PASS
Band26	15MHz	16QAM	26915	27RB#0	NV	10	-0.56	-0.000669	±2.5	PASS
Band26	15MHz	16QAM	26915	27RB#0	NV	20	-8.73	-0.010438	±2.5	PASS
Band26	15MHz	16QAM	26915	27RB#0	NV	30	6.79	0.008116	±2.5	PASS
Band26	15MHz	16QAM	26915	27RB#0	NV	40	-1.27	-0.001523	±2.5	PASS
Band26	15MHz	16QAM	26915	27RB#0	NV	50	0.56	0.000673	±2.5	PASS
Band26	15MHz	16QAM	26965	27RB#0	NV	-30	-10.88	-0.012933	±2.5	PASS
Band26	15MHz	16QAM	26965	27RB#0	NV	-20	7.47	0.008874	±2.5	PASS
Band26	15MHz	16QAM	26965	27RB#0	NV	0	10.71	0.012732	±2.5	PASS
Band26	15MHz	16QAM	26965	27RB#0	NV	10	14.26	0.016945	±2.5	PASS
Band26	15MHz	16QAM	26965	27RB#0	NV	20	7.57	0.008999	±2.5	PASS
Band26	15MHz	16QAM	26965	27RB#0	NV	30	-1.39	-0.001651	±2.5	PASS
Band26	15MHz	16QAM	26965	27RB#0	NV	40	-1.84	-0.002192	±2.5	PASS
Band26	15MHz	16QAM	26965	27RB#0	NV	50	-7.53	-0.008953	±2.5	PASS

The End