

Appendix B.5

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

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
Hom Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/4/13	2021/4/12
Hom 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	2018/5/2	2019/5/1
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 (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 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

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]	$U = \pm 0.24 \text{ ppm}$

1. Effective (Isotropic) Radiated Power

1.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Conducted power (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band26	1.4MHz	QPSK	26797	1RB#0	24.37	24.00	38.45	PASS
Band26	1.4MHz	QPSK	26797	1RB#2	24.43	24.06	38.45	PASS
Band26	1.4MHz	QPSK	26797	1RB#5	24.32	23.95	38.45	PASS
Band26	1.4MHz	QPSK	26797	3RB#0	24.47	24.10	38.45	PASS
Band26	1.4MHz	QPSK	26797	3RB#1	24.52	24.15	38.45	PASS
Band26	1.4MHz	QPSK	26797	3RB#3	24.56	24.19	38.45	PASS
Band26	1.4MHz	QPSK	26797	6RB#0	23.39	23.02	38.45	PASS
Band26	1.4MHz	QPSK	26915	1RB#0	24.39	24.02	38.45	PASS
Band26	1.4MHz	QPSK	26915	1RB#2	24.58	24.21	38.45	PASS
Band26	1.4MHz	QPSK	26915	1RB#5	24.53	24.16	38.45	PASS
Band26	1.4MHz	QPSK	26915	3RB#0	24.53	24.16	38.45	PASS
Band26	1.4MHz	QPSK	26915	3RB#1	24.55	24.18	38.45	PASS
Band26	1.4MHz	QPSK	26915	3RB#3	24.47	24.10	38.45	PASS
Band26	1.4MHz	QPSK	26915	6RB#0	23.42	23.05	38.45	PASS
Band26	1.4MHz	QPSK	27033	1RB#0	24.43	24.06	38.45	PASS
Band26	1.4MHz	QPSK	27033	1RB#2	24.22	23.85	38.45	PASS
Band26	1.4MHz	QPSK	27033	1RB#5	24.08	23.71	38.45	PASS
Band26	1.4MHz	QPSK	27033	3RB#0	24.20	23.83	38.45	PASS
Band26	1.4MHz	QPSK	27033	3RB#1	24.54	24.17	38.45	PASS
Band26	1.4MHz	QPSK	27033	3RB#3	24.20	23.83	38.45	PASS
Band26	1.4MHz	QPSK	27033	6RB#0	23.35	22.98	38.45	PASS
Band26	1.4MHz	16QAM	26797	1RB#0	22.91	22.54	38.45	PASS
Band26	1.4MHz	16QAM	26797	1RB#2	23.08	22.71	38.45	PASS
Band26	1.4MHz	16QAM	26797	1RB#5	22.97	22.60	38.45	PASS
Band26	1.4MHz	16QAM	26797	3RB#0	23.64	23.27	38.45	PASS
Band26	1.4MHz	16QAM	26797	3RB#1	23.53	23.16	38.45	PASS
Band26	1.4MHz	16QAM	26797	3RB#3	23.58	23.21	38.45	PASS
Band26	1.4MHz	16QAM	26797	6RB#0	22.80	22.43	38.45	PASS
Band26	1.4MHz	16QAM	26915	1RB#0	22.84	22.47	38.45	PASS
Band26	1.4MHz	16QAM	26915	1RB#2	23.04	22.67	38.45	PASS
Band26	1.4MHz	16QAM	26915	1RB#5	22.66	22.29	38.45	PASS
Band26	1.4MHz	16QAM	26915	3RB#0	23.72	23.35	38.45	PASS
Band26	1.4MHz	16QAM	26915	3RB#1	23.50	23.13	38.45	PASS
Band26	1.4MHz	16QAM	26915	3RB#3	23.52	23.15	38.45	PASS
Band26	1.4MHz	16QAM	26915	6RB#0	22.56	22.19	38.45	PASS
Band26	1.4MHz	16QAM	27033	1RB#0	22.70	22.33	38.45	PASS

Band26	1.4MHz	16QAM	27033	1RB#2	22.76	22.39	38.45	PASS
Band26	1.4MHz	16QAM	27033	1RB#5	22.92	22.55	38.45	PASS
Band26	1.4MHz	16QAM	27033	3RB#0	23.58	23.21	38.45	PASS
Band26	1.4MHz	16QAM	27033	3RB#1	23.46	23.09	38.45	PASS
Band26	1.4MHz	16QAM	27033	3RB#3	23.88	23.51	38.45	PASS
Band26	1.4MHz	16QAM	27033	6RB#0	22.33	21.96	38.45	PASS
Band26	3MHz	QPSK	26805	1RB#0	24.52	24.15	38.45	PASS
Band26	3MHz	QPSK	26805	1RB#8	24.22	23.85	38.45	PASS
Band26	3MHz	QPSK	26805	1RB#14	24.67	24.30	38.45	PASS
Band26	3MHz	QPSK	26805	8RB#0	23.20	22.83	38.45	PASS
Band26	3MHz	QPSK	26805	8RB#4	23.41	23.04	38.45	PASS
Band26	3MHz	QPSK	26805	8RB#7	23.55	23.18	38.45	PASS
Band26	3MHz	QPSK	26805	15RB#0	23.45	23.08	38.45	PASS
Band26	3MHz	QPSK	26915	1RB#0	24.68	24.31	38.45	PASS
Band26	3MHz	QPSK	26915	1RB#8	24.02	23.65	38.45	PASS
Band26	3MHz	QPSK	26915	1RB#14	24.39	24.02	38.45	PASS
Band26	3MHz	QPSK	26915	8RB#0	23.35	22.98	38.45	PASS
Band26	3MHz	QPSK	26915	8RB#4	23.36	22.99	38.45	PASS
Band26	3MHz	QPSK	26915	8RB#7	23.35	22.98	38.45	PASS
Band26	3MHz	QPSK	26915	15RB#0	23.43	23.06	38.45	PASS
Band26	3MHz	QPSK	27025	1RB#0	24.47	24.10	38.45	PASS
Band26	3MHz	QPSK	27025	1RB#8	24.20	23.83	38.45	PASS
Band26	3MHz	QPSK	27025	1RB#14	24.18	23.81	38.45	PASS
Band26	3MHz	QPSK	27025	8RB#0	23.68	23.31	38.45	PASS
Band26	3MHz	QPSK	27025	8RB#4	23.22	22.85	38.45	PASS
Band26	3MHz	QPSK	27025	8RB#7	23.16	22.79	38.45	PASS
Band26	3MHz	QPSK	27025	15RB#0	23.46	23.09	38.45	PASS
Band26	3MHz	16QAM	26805	1RB#0	22.82	22.45	38.45	PASS
Band26	3MHz	16QAM	26805	1RB#8	22.83	22.46	38.45	PASS
Band26	3MHz	16QAM	26805	1RB#14	23.10	22.73	38.45	PASS
Band26	3MHz	16QAM	26805	8RB#0	22.21	21.84	38.45	PASS
Band26	3MHz	16QAM	26805	8RB#4	22.28	21.91	38.45	PASS
Band26	3MHz	16QAM	26805	8RB#7	22.34	21.97	38.45	PASS
Band26	3MHz	16QAM	26805	15RB#0	22.57	22.20	38.45	PASS
Band26	3MHz	16QAM	26915	1RB#0	23.05	22.68	38.45	PASS
Band26	3MHz	16QAM	26915	1RB#8	22.92	22.55	38.45	PASS
Band26	3MHz	16QAM	26915	1RB#14	22.87	22.50	38.45	PASS
Band26	3MHz	16QAM	26915	8RB#0	22.27	21.90	38.45	PASS
Band26	3MHz	16QAM	26915	8RB#4	22.20	21.83	38.45	PASS
Band26	3MHz	16QAM	26915	8RB#7	22.42	22.05	38.45	PASS
Band26	3MHz	16QAM	26915	15RB#0	22.45	22.08	38.45	PASS
Band26	3MHz	16QAM	27025	1RB#0	22.56	22.19	38.45	PASS
Band26	3MHz	16QAM	27025	1RB#8	22.86	22.49	38.45	PASS
Band26	3MHz	16QAM	27025	1RB#14	23.27	22.90	38.45	PASS

Band26	3MHz	16QAM	27025	8RB#0	22.27	21.90	38.45	PASS
Band26	3MHz	16QAM	27025	8RB#4	22.23	21.86	38.45	PASS
Band26	3MHz	16QAM	27025	8RB#7	22.42	22.05	38.45	PASS
Band26	3MHz	16QAM	27025	15RB#0	22.44	22.07	38.45	PASS
Band26	5MHz	QPSK	26815	1RB#0	24.29	23.92	38.45	PASS
Band26	5MHz	QPSK	26815	1RB#12	24.29	23.92	38.45	PASS
Band26	5MHz	QPSK	26815	1RB#24	24.52	24.15	38.45	PASS
Band26	5MHz	QPSK	26815	12RB#0	23.25	22.88	38.45	PASS
Band26	5MHz	QPSK	26815	12RB#6	23.48	23.11	38.45	PASS
Band26	5MHz	QPSK	26815	12RB#13	23.39	23.02	38.45	PASS
Band26	5MHz	QPSK	26815	25RB#0	23.36	22.99	38.45	PASS
Band26	5MHz	QPSK	26915	1RB#0	24.47	24.10	38.45	PASS
Band26	5MHz	QPSK	26915	1RB#12	24.24	23.87	38.45	PASS
Band26	5MHz	QPSK	26915	1RB#24	24.59	24.22	38.45	PASS
Band26	5MHz	QPSK	26915	12RB#0	23.25	22.88	38.45	PASS
Band26	5MHz	QPSK	26915	12RB#6	23.45	23.08	38.45	PASS
Band26	5MHz	QPSK	26915	12RB#13	23.34	22.97	38.45	PASS
Band26	5MHz	QPSK	26915	25RB#0	23.36	22.99	38.45	PASS
Band26	5MHz	QPSK	27015	1RB#0	24.62	24.25	38.45	PASS
Band26	5MHz	QPSK	27015	1RB#12	23.98	23.61	38.45	PASS
Band26	5MHz	QPSK	27015	1RB#24	24.01	23.64	38.45	PASS
Band26	5MHz	QPSK	27015	12RB#0	23.62	23.25	38.45	PASS
Band26	5MHz	QPSK	27015	12RB#6	23.24	22.87	38.45	PASS
Band26	5MHz	QPSK	27015	12RB#13	23.19	22.82	38.45	PASS
Band26	5MHz	QPSK	27015	25RB#0	23.57	23.20	38.45	PASS
Band26	5MHz	16QAM	26815	1RB#0	22.79	22.42	38.45	PASS
Band26	5MHz	16QAM	26815	1RB#12	23.51	23.14	38.45	PASS
Band26	5MHz	16QAM	26815	1RB#24	22.91	22.54	38.45	PASS
Band26	5MHz	16QAM	26815	12RB#0	22.34	21.97	38.45	PASS
Band26	5MHz	16QAM	26815	12RB#6	22.35	21.98	38.45	PASS
Band26	5MHz	16QAM	26815	12RB#13	22.35	21.98	38.45	PASS
Band26	5MHz	16QAM	26815	25RB#0	22.47	22.10	38.45	PASS
Band26	5MHz	16QAM	26915	1RB#0	22.72	22.35	38.45	PASS
Band26	5MHz	16QAM	26915	1RB#12	23.03	22.66	38.45	PASS
Band26	5MHz	16QAM	26915	1RB#24	22.59	22.22	38.45	PASS
Band26	5MHz	16QAM	26915	12RB#0	22.56	22.19	38.45	PASS
Band26	5MHz	16QAM	26915	12RB#6	22.40	22.03	38.45	PASS
Band26	5MHz	16QAM	26915	12RB#13	22.37	22.00	38.45	PASS
Band26	5MHz	16QAM	26915	25RB#0	22.50	22.13	38.45	PASS
Band26	5MHz	16QAM	27015	1RB#0	22.86	22.49	38.45	PASS
Band26	5MHz	16QAM	27015	1RB#12	23.35	22.98	38.45	PASS
Band26	5MHz	16QAM	27015	1RB#24	23.25	22.88	38.45	PASS
Band26	5MHz	16QAM	27015	12RB#0	22.18	21.81	38.45	PASS
Band26	5MHz	16QAM	27015	12RB#6	22.44	22.07	38.45	PASS

Band26	5MHz	16QAM	27015	12RB#13	22.41	22.04	38.45	PASS
Band26	5MHz	16QAM	27015	25RB#0	22.47	22.10	38.45	PASS
Band26	10MHz	QPSK	26840	1RB#0	24.53	24.16	38.45	PASS
Band26	10MHz	QPSK	26840	1RB#24	24.49	24.12	38.45	PASS
Band26	10MHz	QPSK	26840	1RB#49	24.51	24.14	38.45	PASS
Band26	10MHz	QPSK	26840	25RB#0	23.57	23.20	38.45	PASS
Band26	10MHz	QPSK	26840	25RB#12	23.51	23.14	38.45	PASS
Band26	10MHz	QPSK	26840	25RB#25	23.48	23.11	38.45	PASS
Band26	10MHz	QPSK	26840	50RB#0	23.48	23.11	38.45	PASS
Band26	10MHz	QPSK	26915	1RB#0	24.44	24.07	38.45	PASS
Band26	10MHz	QPSK	26915	1RB#24	24.55	24.18	38.45	PASS
Band26	10MHz	QPSK	26915	1RB#49	24.39	24.02	38.45	PASS
Band26	10MHz	QPSK	26915	25RB#0	23.54	23.17	38.45	PASS
Band26	10MHz	QPSK	26915	25RB#12	23.48	23.11	38.45	PASS
Band26	10MHz	QPSK	26915	25RB#25	23.41	23.04	38.45	PASS
Band26	10MHz	QPSK	26915	50RB#0	23.40	23.03	38.45	PASS
Band26	10MHz	QPSK	26990	1RB#0	24.52	24.15	38.45	PASS
Band26	10MHz	QPSK	26990	1RB#24	24.42	24.05	38.45	PASS
Band26	10MHz	QPSK	26990	1RB#49	24.00	23.63	38.45	PASS
Band26	10MHz	QPSK	26990	25RB#0	23.51	23.14	38.45	PASS
Band26	10MHz	QPSK	26990	25RB#12	23.34	22.97	38.45	PASS
Band26	10MHz	QPSK	26990	25RB#25	23.45	23.08	38.45	PASS
Band26	10MHz	QPSK	26990	50RB#0	23.39	23.02	38.45	PASS
Band26	10MHz	16QAM	26840	1RB#0	22.66	22.29	38.45	PASS
Band26	10MHz	16QAM	26840	1RB#24	22.94	22.57	38.45	PASS
Band26	10MHz	16QAM	26840	1RB#49	22.99	22.62	38.45	PASS
Band26	10MHz	16QAM	26840	25RB#0	22.59	22.22	38.45	PASS
Band26	10MHz	16QAM	26840	25RB#12	22.43	22.06	38.45	PASS
Band26	10MHz	16QAM	26840	25RB#25	22.60	22.23	38.45	PASS
Band26	10MHz	16QAM	26840	50RB#0	22.45	22.08	38.45	PASS
Band26	10MHz	16QAM	26915	1RB#0	22.81	22.44	38.45	PASS
Band26	10MHz	16QAM	26915	1RB#24	22.70	22.33	38.45	PASS
Band26	10MHz	16QAM	26915	1RB#49	23.05	22.68	38.45	PASS
Band26	10MHz	16QAM	26915	25RB#0	22.73	22.36	38.45	PASS
Band26	10MHz	16QAM	26915	25RB#12	22.64	22.27	38.45	PASS
Band26	10MHz	16QAM	26915	25RB#25	22.40	22.03	38.45	PASS
Band26	10MHz	16QAM	26915	50RB#0	22.34	21.97	38.45	PASS
Band26	10MHz	16QAM	26990	1RB#0	22.88	22.51	38.45	PASS
Band26	10MHz	16QAM	26990	1RB#24	23.10	22.73	38.45	PASS
Band26	10MHz	16QAM	26990	1RB#49	23.35	22.98	38.45	PASS
Band26	10MHz	16QAM	26990	25RB#0	22.47	22.10	38.45	PASS
Band26	10MHz	16QAM	26990	25RB#12	22.53	22.16	38.45	PASS
Band26	10MHz	16QAM	26990	25RB#25	22.51	22.14	38.45	PASS
Band26	10MHz	16QAM	26990	50RB#0	22.43	22.06	38.45	PASS

Band26	15MHz	QPSK	26865	1RB#0	24.51	24.14	38.45	PASS
Band26	15MHz	QPSK	26865	1RB#38	24.45	24.08	38.45	PASS
Band26	15MHz	QPSK	26865	1RB#74	24.61	24.24	38.45	PASS
Band26	15MHz	QPSK	26865	36RB#0	23.40	23.03	38.45	PASS
Band26	15MHz	QPSK	26865	36RB#18	23.54	23.17	38.45	PASS
Band26	15MHz	QPSK	26865	36RB#39	23.35	22.98	38.45	PASS
Band26	15MHz	QPSK	26865	75RB#0	23.44	23.07	38.45	PASS
Band26	15MHz	QPSK	26915	1RB#0	24.49	24.12	38.45	PASS
Band26	15MHz	QPSK	26915	1RB#38	24.17	23.80	38.45	PASS
Band26	15MHz	QPSK	26915	1RB#74	24.42	24.05	38.45	PASS
Band26	15MHz	QPSK	26915	36RB#0	23.61	23.24	38.45	PASS
Band26	15MHz	QPSK	26915	36RB#18	23.50	23.13	38.45	PASS
Band26	15MHz	QPSK	26915	36RB#39	23.44	23.07	38.45	PASS
Band26	15MHz	QPSK	26915	75RB#0	23.45	23.08	38.45	PASS
Band26	15MHz	QPSK	26965	1RB#0	24.63	24.26	38.45	PASS
Band26	15MHz	QPSK	26965	1RB#38	24.20	23.83	38.45	PASS
Band26	15MHz	QPSK	26965	1RB#74	24.09	23.72	38.45	PASS
Band26	15MHz	QPSK	26965	36RB#0	23.38	23.01	38.45	PASS
Band26	15MHz	QPSK	26965	36RB#18	23.33	22.96	38.45	PASS
Band26	15MHz	QPSK	26965	36RB#39	23.19	22.82	38.45	PASS
Band26	15MHz	QPSK	26965	75RB#0	23.34	22.97	38.45	PASS
Band26	15MHz	16QAM	26865	1RB#0	22.85	22.48	38.45	PASS
Band26	15MHz	16QAM	26865	1RB#38	22.94	22.57	38.45	PASS
Band26	15MHz	16QAM	26865	1RB#74	22.80	22.43	38.45	PASS
Band26	15MHz	16QAM	26865	36RB#0	22.49	22.12	38.45	PASS
Band26	15MHz	16QAM	26865	36RB#18	22.40	22.03	38.45	PASS
Band26	15MHz	16QAM	26865	36RB#39	22.38	22.01	38.45	PASS
Band26	15MHz	16QAM	26865	75RB#0	22.46	22.09	38.45	PASS
Band26	15MHz	16QAM	26915	1RB#0	23.18	22.81	38.45	PASS
Band26	15MHz	16QAM	26915	1RB#38	23.41	23.04	38.45	PASS
Band26	15MHz	16QAM	26915	1RB#74	22.95	22.58	38.45	PASS
Band26	15MHz	16QAM	26915	36RB#0	22.61	22.24	38.45	PASS
Band26	15MHz	16QAM	26915	36RB#18	22.46	22.09	38.45	PASS
Band26	15MHz	16QAM	26915	36RB#39	22.44	22.07	38.45	PASS
Band26	15MHz	16QAM	26915	75RB#0	22.49	22.12	38.45	PASS
Band26	15MHz	16QAM	26965	1RB#0	22.89	22.52	38.45	PASS
Band26	15MHz	16QAM	26965	1RB#38	23.00	22.63	38.45	PASS
Band26	15MHz	16QAM	26965	1RB#74	22.78	22.41	38.45	PASS
Band26	15MHz	16QAM	26965	36RB#0	22.42	22.05	38.45	PASS
Band26	15MHz	16QAM	26965	36RB#18	22.48	22.11	38.45	PASS
Band26	15MHz	16QAM	26965	36RB#39	22.26	21.89	38.45	PASS
Band26	15MHz	16QAM	26965	75RB#0	22.38	22.01	38.45	PASS

Remark:

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

it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

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

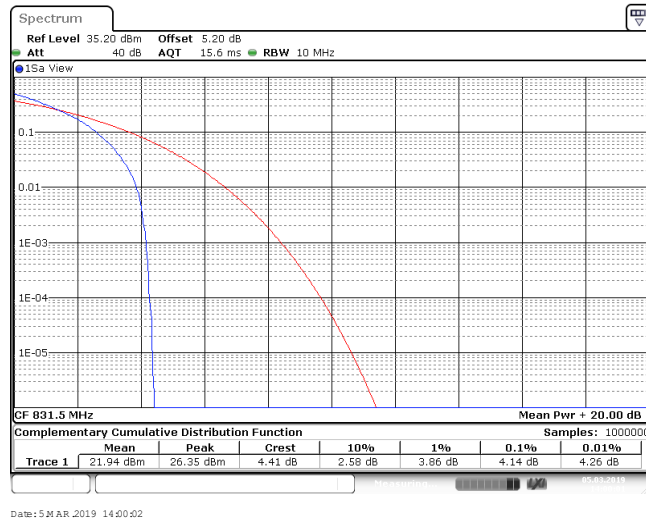
2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

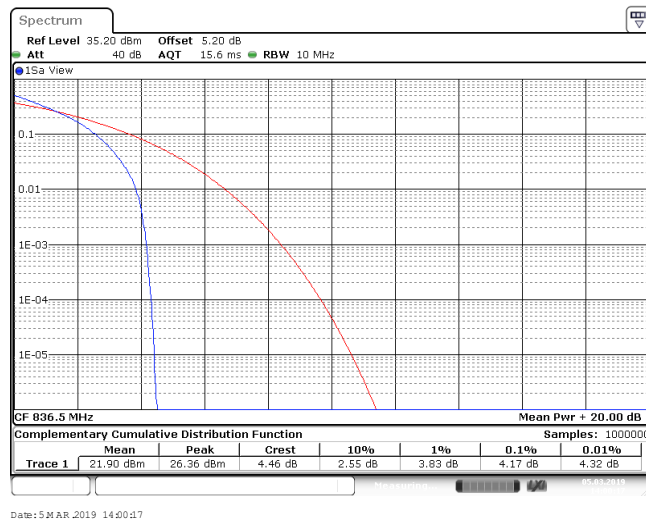
BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band26	15MHz	QPSK	26865	75RB#0	4.14	13	PASS
Band26	15MHz	QPSK	26915	75RB#0	4.17	13	PASS
Band26	15MHz	QPSK	26965	75RB#0	4.43	13	PASS
Band26	15MHz	16QAM	26865	75RB#0	5.51	13	PASS
Band26	15MHz	16QAM	26915	75RB#0	5.51	13	PASS
Band26	15MHz	16QAM	26965	75RB#0	5.62	13	PASS

2.2. Test Plots

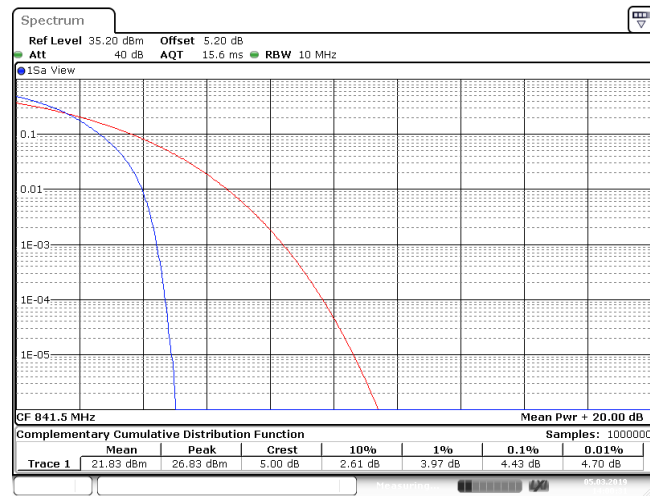
Band26_15MHz_QPSK_26865_75RB#0



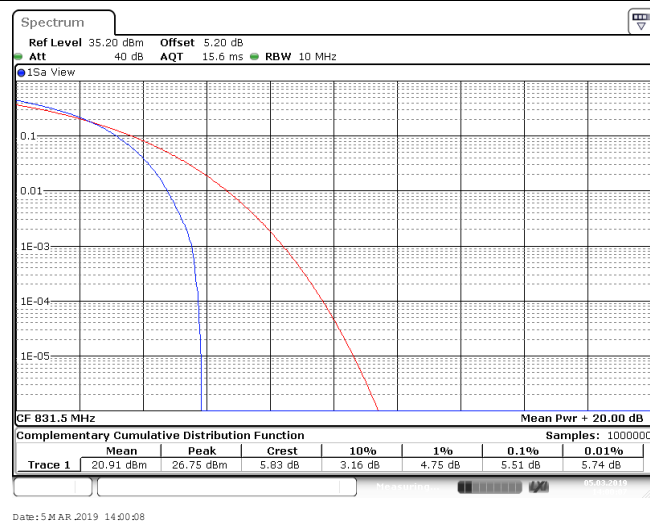
Band26_15MHz_QPSK_26915_75RB#0



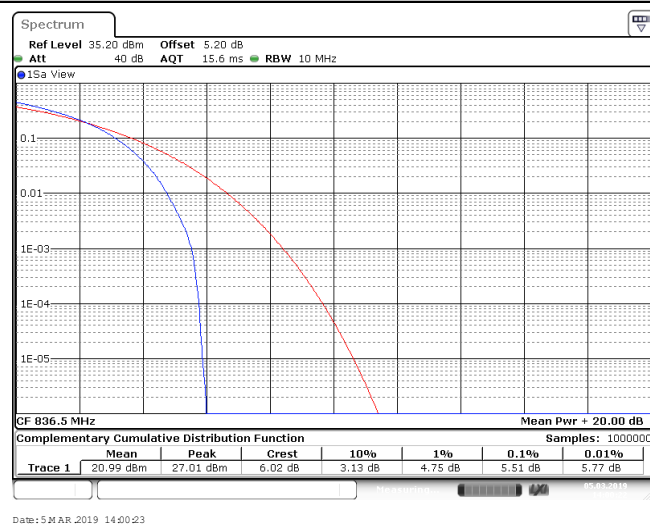
Band26_15MHz_QPSK_26965_75RB#0



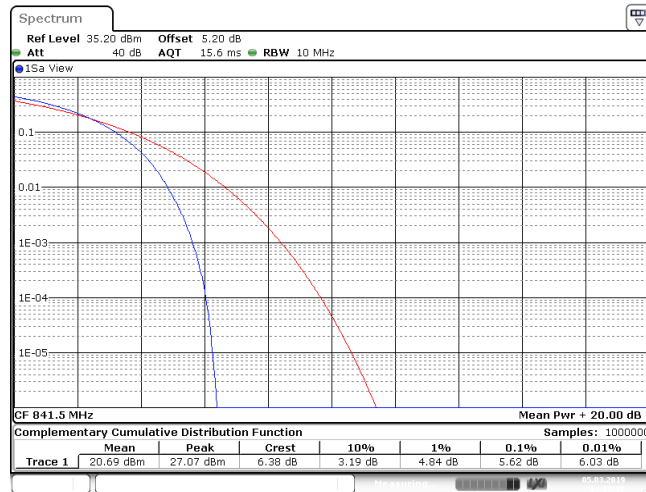
Band26_15MHz_16QAM_26865_75RB#0



Band26_15MHz_16QAM_26915_75RB#0



Band26_15MHz_16QAM_26965_75RB#0

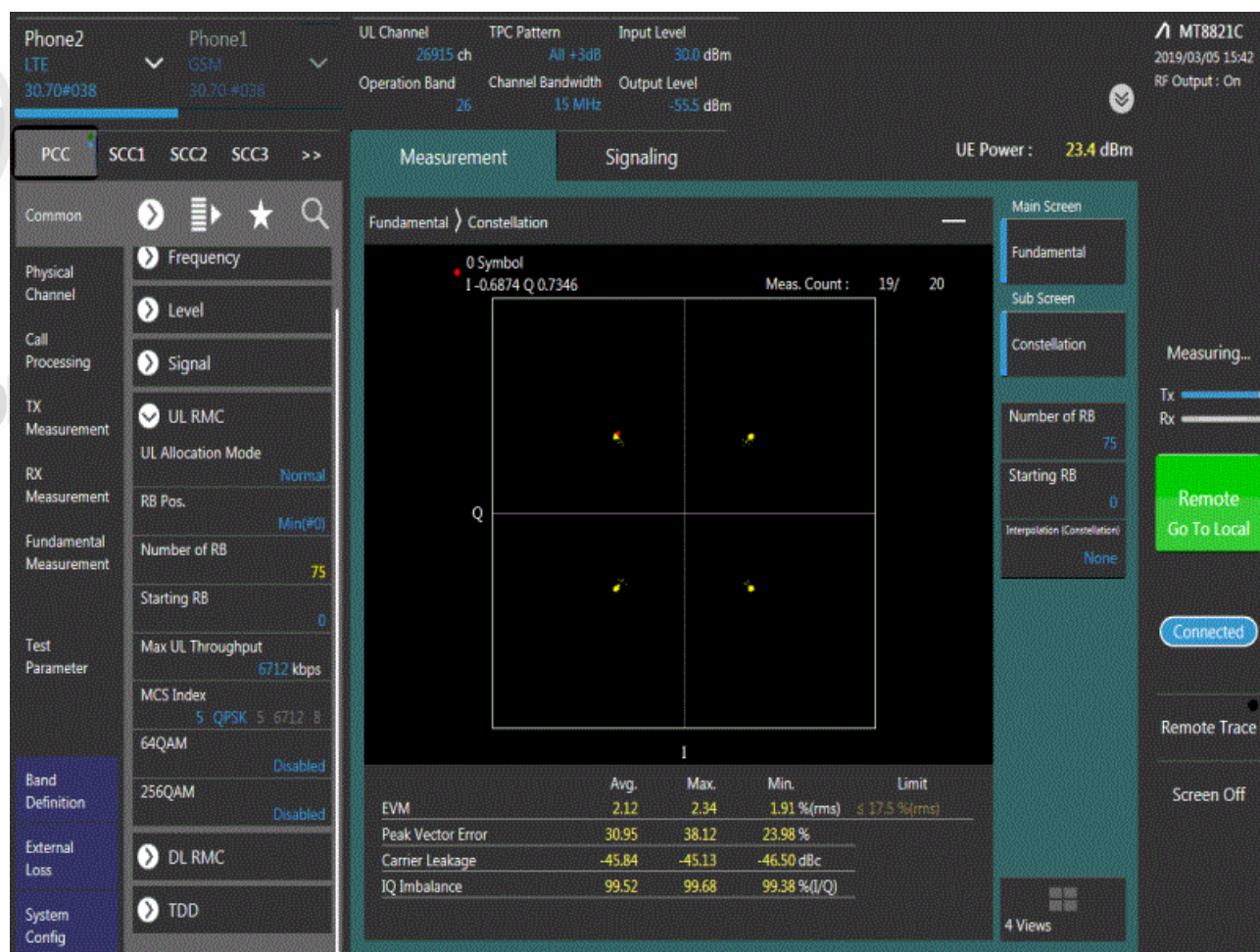


3. Modulation Characteristics

3.1. Test BAND = LTE BAND 26

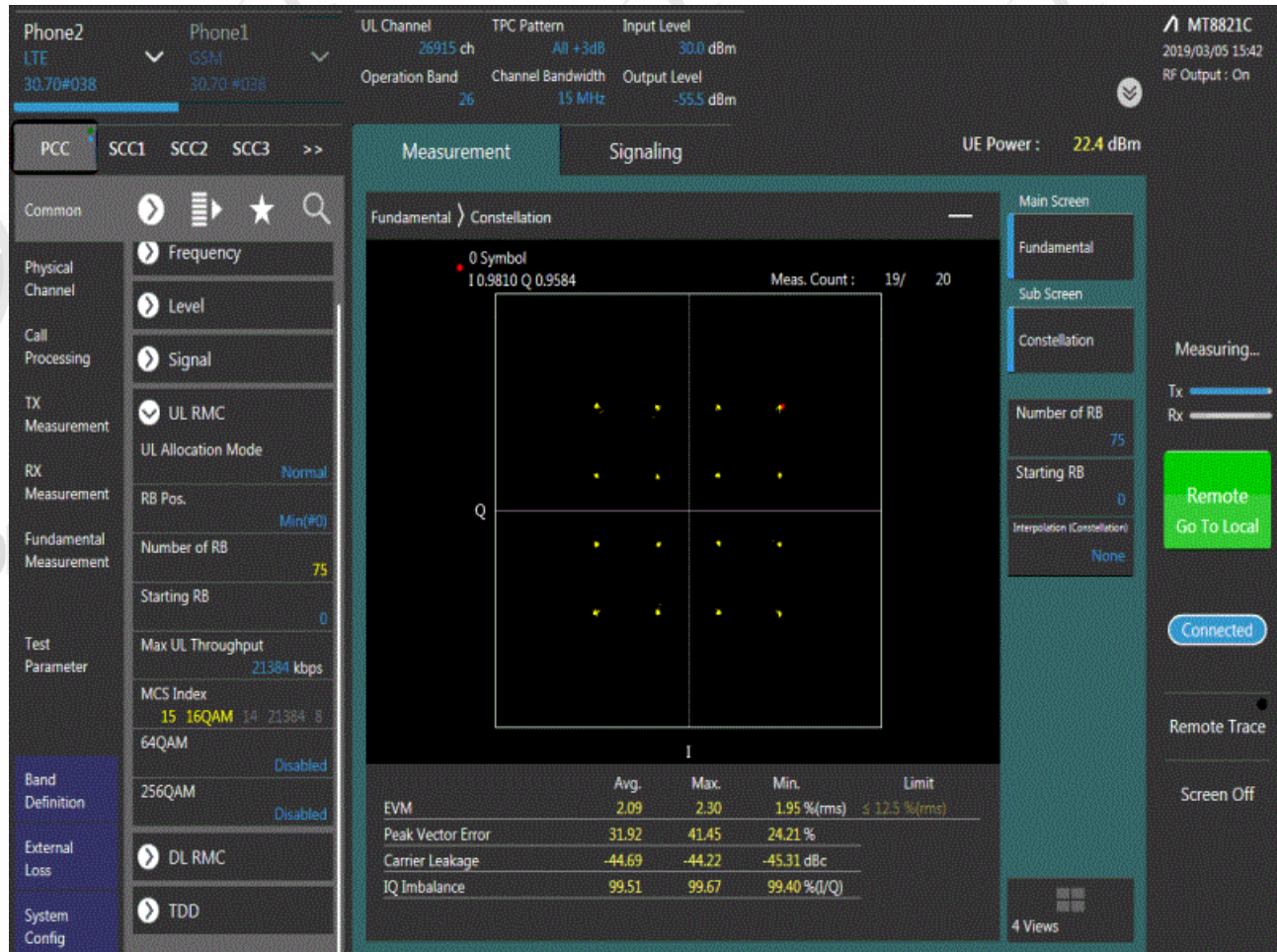
3.1.1. Test Mode = LTE /TM1 15MHz

3.1.1.1. Test Channel = MCH



3.1.2. Test Mode = LTE /TM2 15MHz

3.1.2.1. Test Channel = MCH



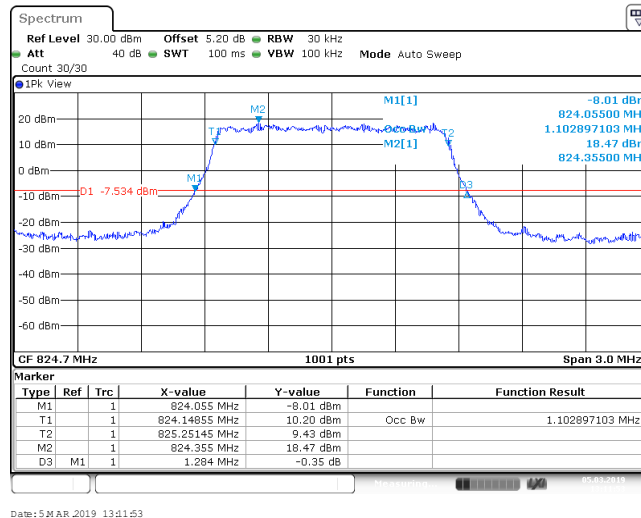
4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

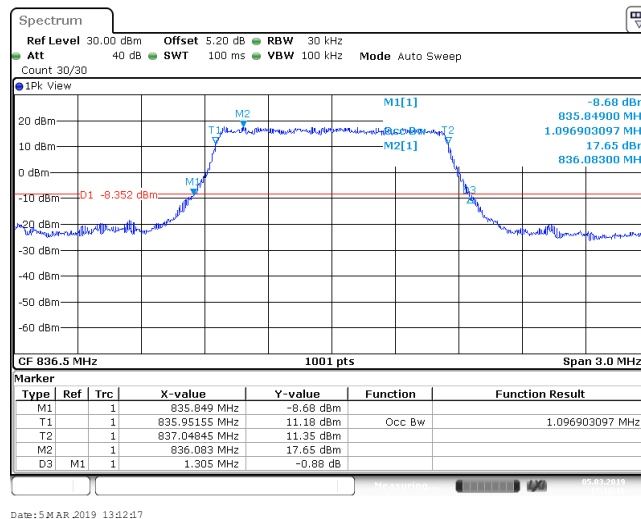
BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band26	1.4MHz	QPSK	26797	6RB#0	1.103	1.284	PASS
Band26	1.4MHz	QPSK	26915	6RB#0	1.097	1.305	PASS
Band26	1.4MHz	QPSK	27033	6RB#0	1.097	1.302	PASS
Band26	1.4MHz	16QAM	26797	6RB#0	1.097	1.299	PASS
Band26	1.4MHz	16QAM	26915	6RB#0	1.088	1.290	PASS
Band26	1.4MHz	16QAM	27033	6RB#0	1.1	1.308	PASS
Band26	3MHz	QPSK	26805	15RB#0	2.703	2.982	PASS
Band26	3MHz	QPSK	26915	15RB#0	2.691	2.988	PASS
Band26	3MHz	QPSK	27025	15RB#0	2.697	2.976	PASS
Band26	3MHz	16QAM	26805	15RB#0	2.697	2.982	PASS
Band26	3MHz	16QAM	26915	15RB#0	2.697	2.988	PASS
Band26	3MHz	16QAM	27025	15RB#0	2.697	2.982	PASS
Band26	5MHz	QPSK	26815	25RB#0	4.476	4.920	PASS
Band26	5MHz	QPSK	26915	25RB#0	4.486	4.950	PASS
Band26	5MHz	QPSK	27015	25RB#0	4.486	4.920	PASS
Band26	5MHz	16QAM	26815	25RB#0	4.476	4.980	PASS
Band26	5MHz	16QAM	26915	25RB#0	4.486	4.940	PASS
Band26	5MHz	16QAM	27015	25RB#0	4.466	4.870	PASS
Band26	10MHz	QPSK	26840	50RB#0	8.951	9.680	PASS
Band26	10MHz	QPSK	26915	50RB#0	8.911	9.700	PASS
Band26	10MHz	QPSK	26990	50RB#0	8.911	9.640	PASS
Band26	10MHz	16QAM	26840	50RB#0	8.931	9.740	PASS
Band26	10MHz	16QAM	26915	50RB#0	8.911	9.700	PASS
Band26	10MHz	16QAM	26990	50RB#0	8.911	9.700	PASS
Band26	15MHz	QPSK	26865	75RB#0	13.427	14.760	PASS
Band26	15MHz	QPSK	26915	75RB#0	13.397	14.730	PASS
Band26	15MHz	QPSK	26965	75RB#0	13.427	14.880	PASS
Band26	15MHz	16QAM	26865	75RB#0	13.427	14.790	PASS
Band26	15MHz	16QAM	26915	75RB#0	13.427	14.730	PASS
Band26	15MHz	16QAM	26965	75RB#0	13.457	14.700	PASS

4.2. Test Plots

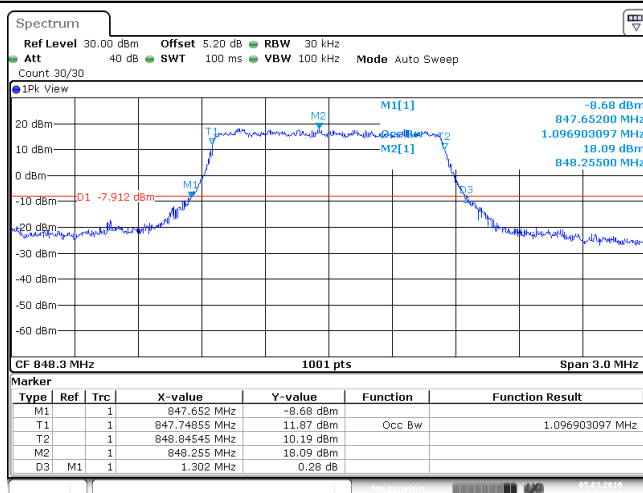
Band26_1.4MHz_QPSK_26797_6RB#0



Band26_1.4MHz_QPSK_26915_6RB#0

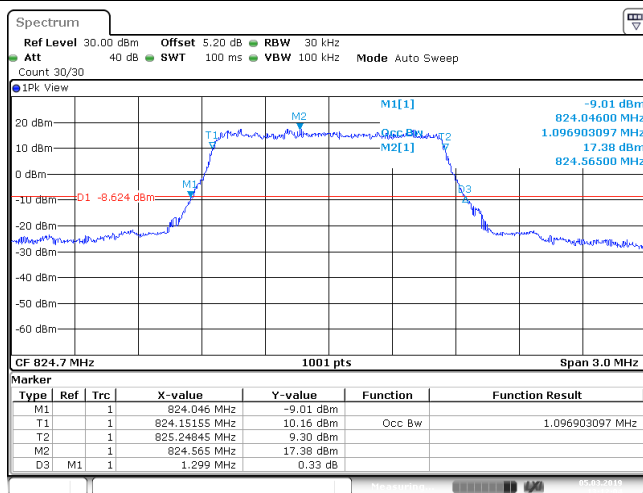


Band26_1.4MHz_QPSK_27033_6RB#0



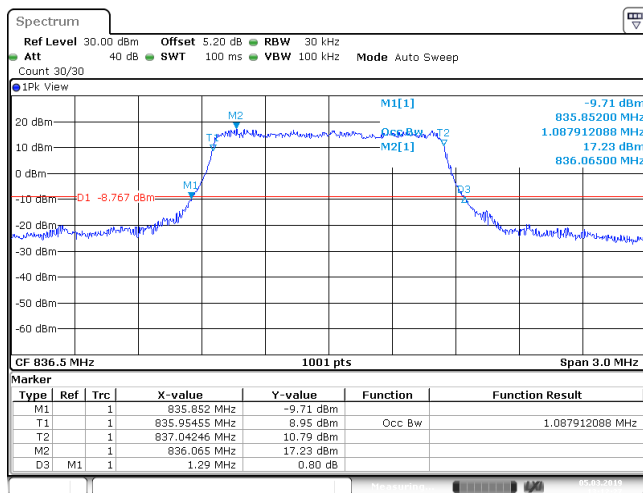
Date: 5 MAR 2019 13:12:40

Band26_1.4MHz_16QAM_26797_6RB#0



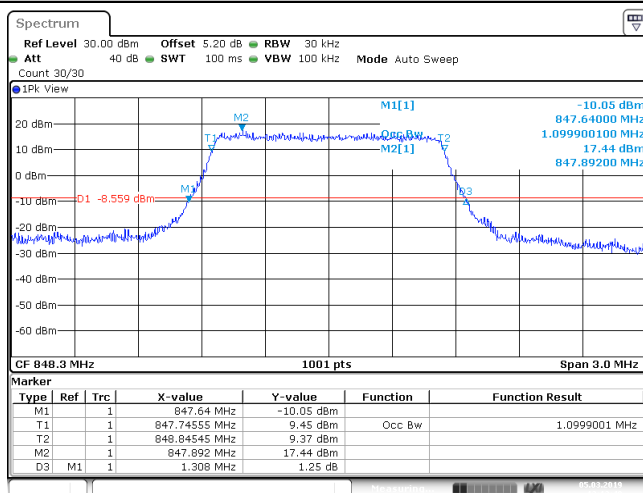
Date: 5 MAR 2019 13:12:04

Band26_1.4MHz_16QAM_26915_6RB#0



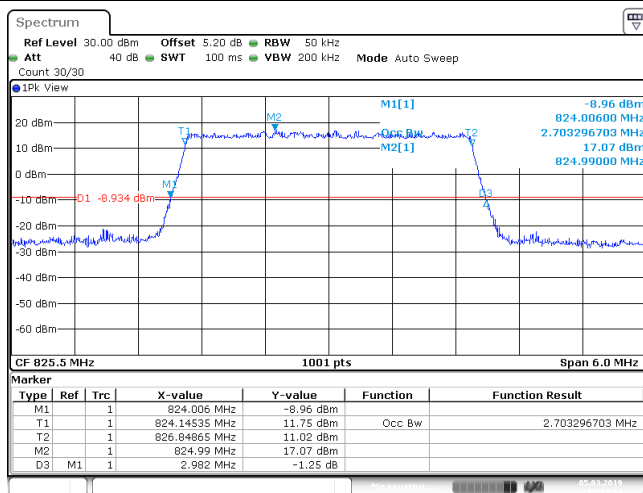
Date: 5 MAR 2019 13:12:27

Band26_1.4MHz_16QAM_27033_6RB#0



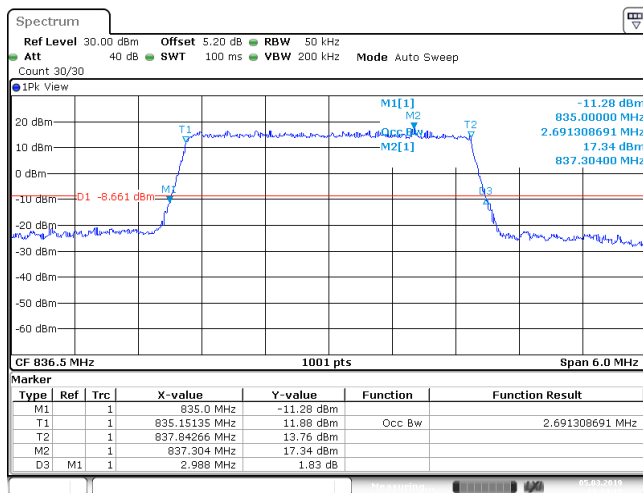
Date: 5 MAR 2019 13:12:50

Band26_3MHz_QPSK_26805_15RB#0



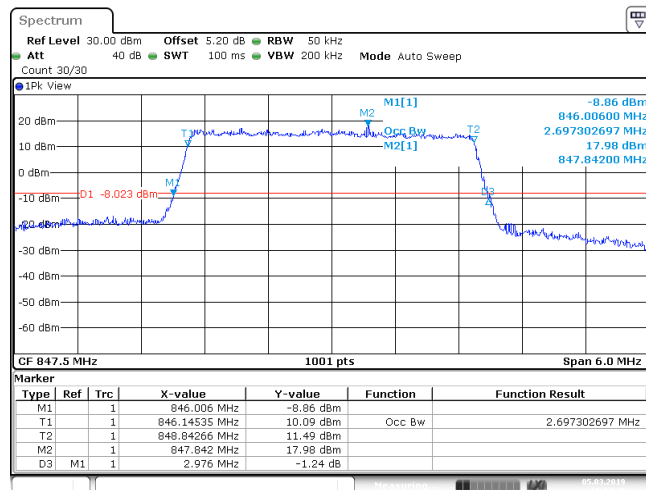
Date: 5 MAR 2019 13:13:54

Band26_3MHz_QPSK_26915_15RB#0



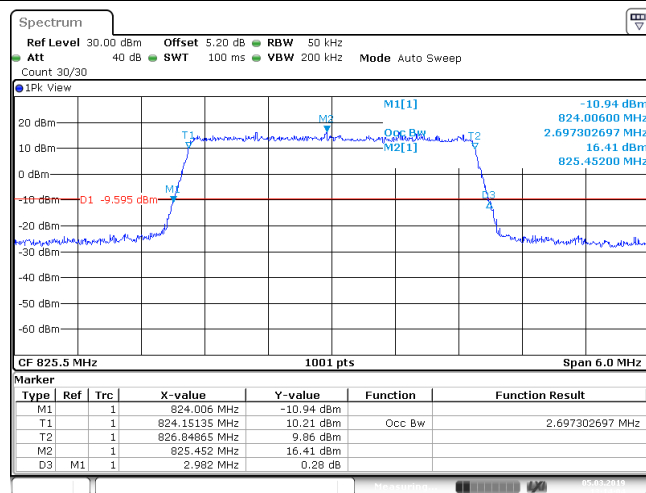
Date: 5 MAR 2019 13:14:17

Band26_3MHz_QPSK_27025_15RB#0



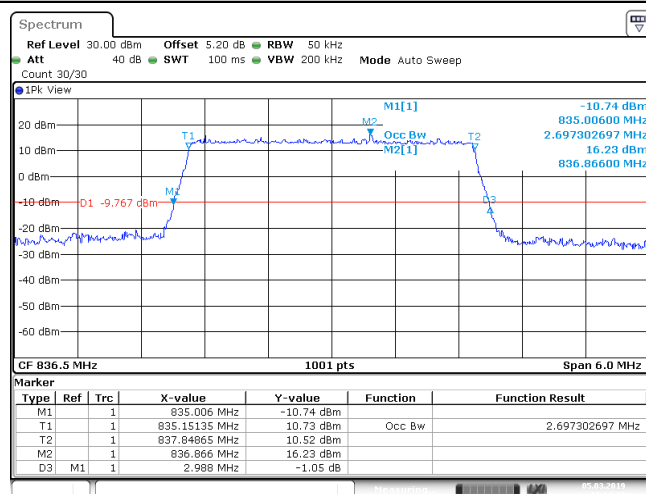
Date: 5 MAR 2019 13:44:40

Band26_3MHz_16QAM_26805_15RB#0



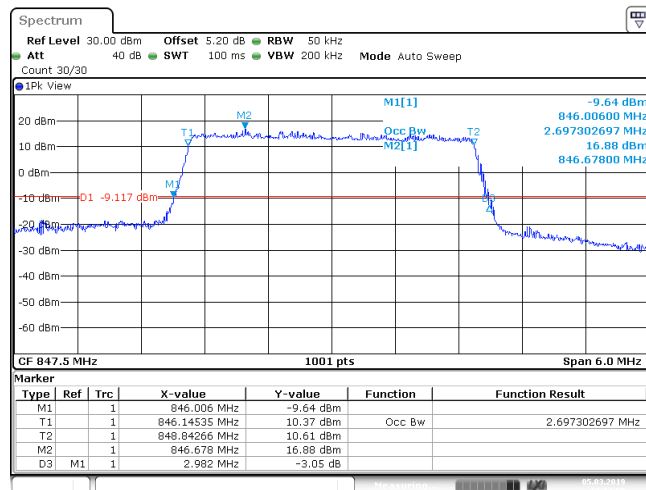
Date: 5 MAR 2019 13:44:05

Band26_3MHz_16QAM_26915_15RB#0



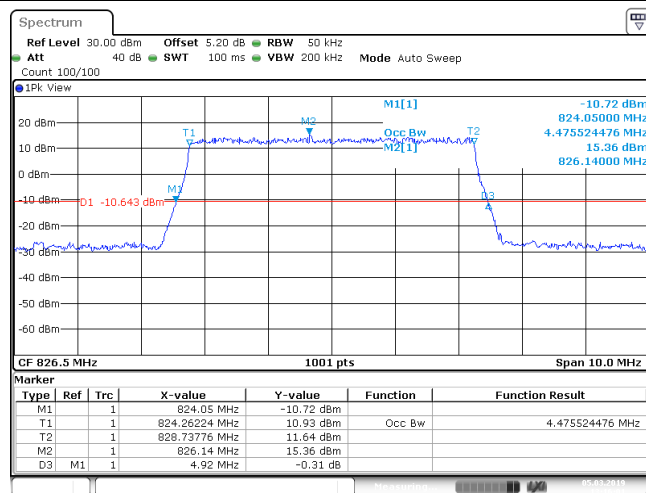
Date: 5 MAR 2019 13:44:28

Band26_3MHz_16QAM_27025_15RB#0



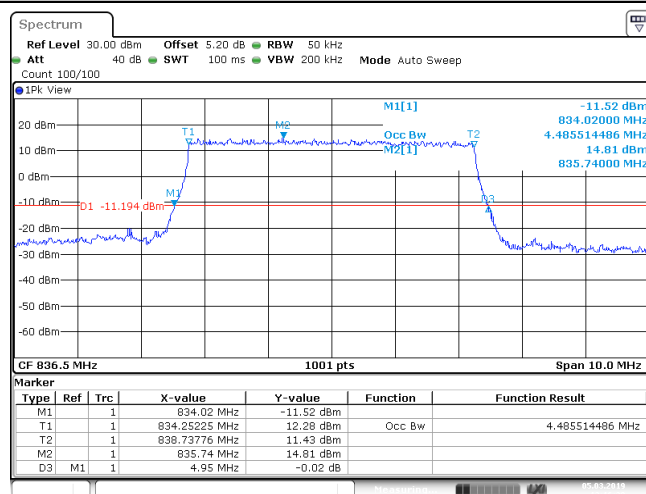
Date: 5 MAR 2019 13:44:51

Band26_5MHz_QPSK_26815_25RB#0



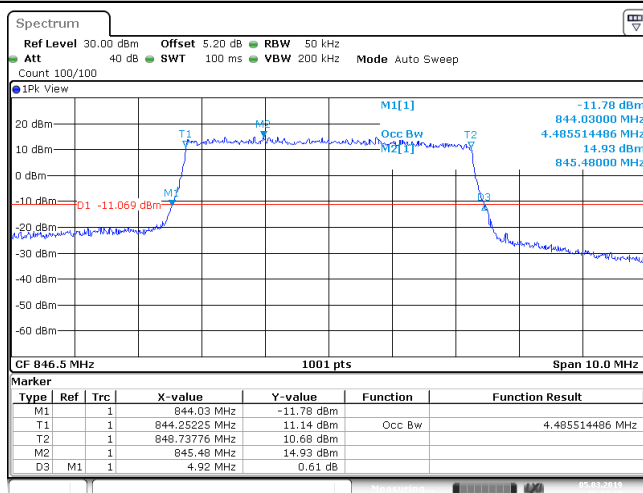
Date: 5 MAR 2019 13:46:01

Band26_5MHz_QPSK_26915_25RB#0



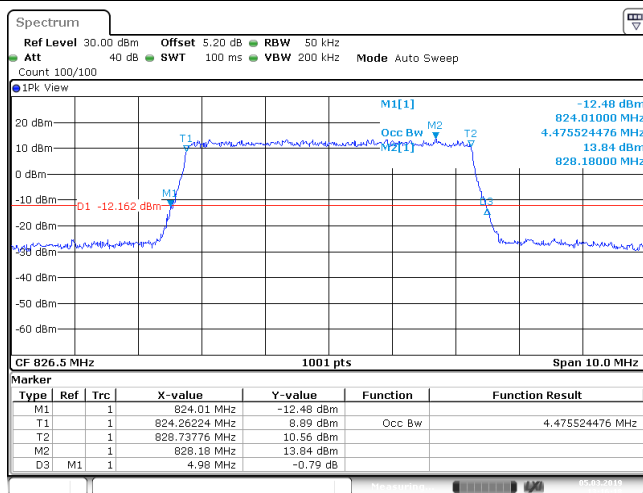
Date: 5 MAR 2019 13:46:38

Band26_5MHz_QPSK_27015_25RB#0



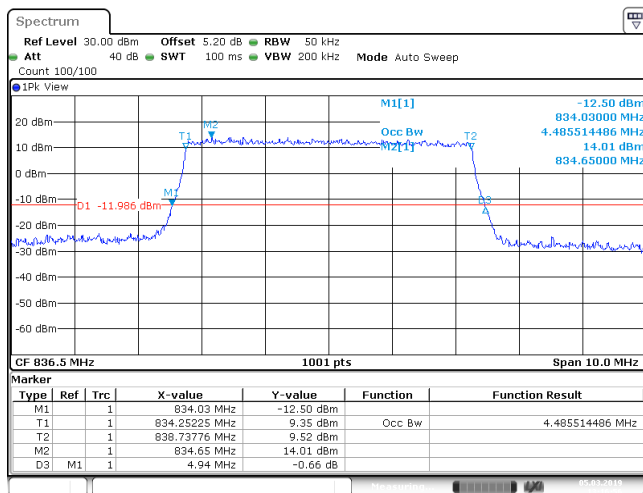
Date: 5 MAR 2019 13:17:15

Band26_5MHz_16QAM_26815_25RB#0



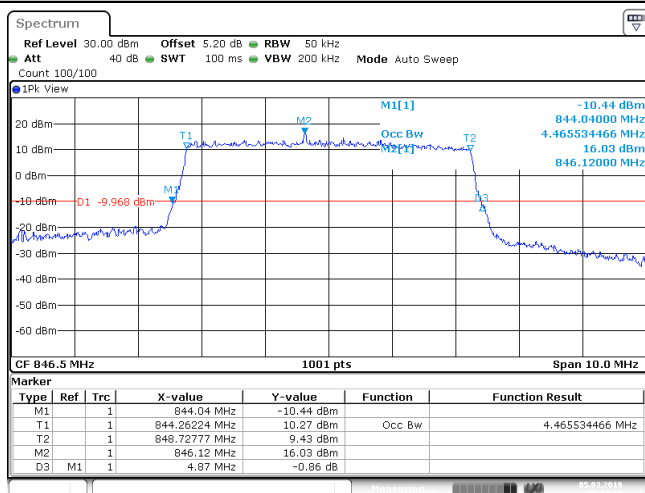
Date: 5 MAR 2019 13:16:18

Band26_5MHz_16QAM_26915_25RB#0



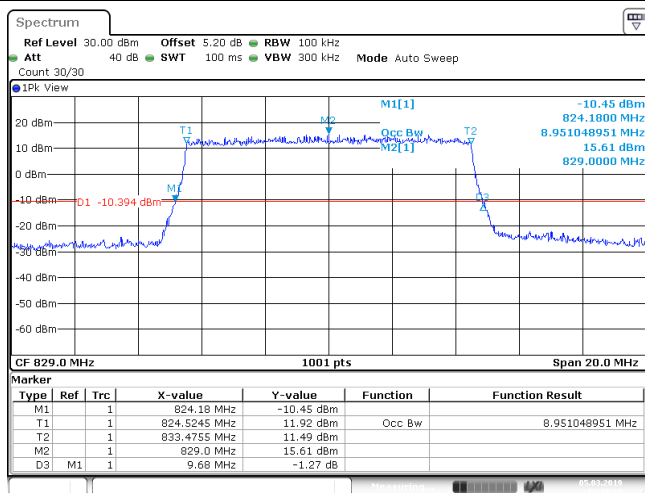
Date: 5 MAR 2019 13:16:56

Band26_5MHz_16QAM_27015_25RB#0



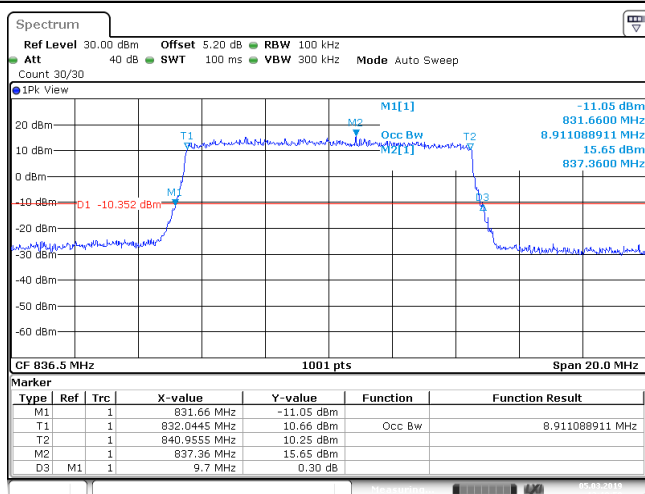
Date: 5 MAR 2019 13:17:33

Band26_10MHz_QPSK_26840_50RB#0



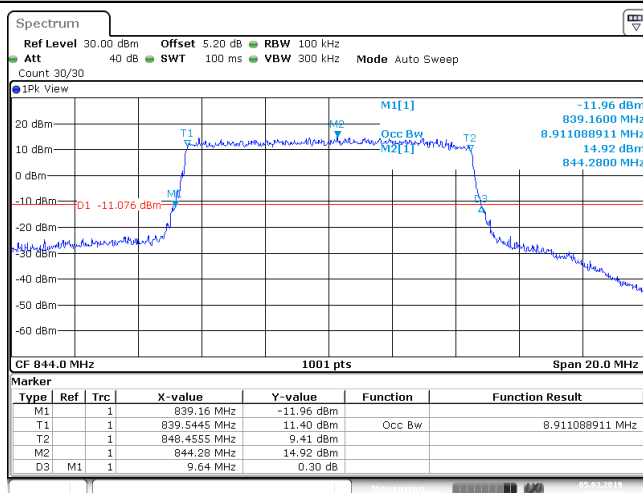
Date: 5 MAR 2019 13:19:27

Band26_10MHz_QPSK_26915_50RB#0



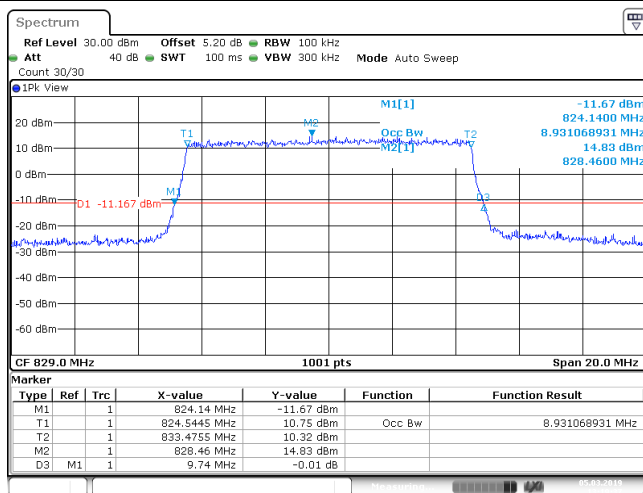
Date: 5 MAR 2019 13:19:50

Band26_10MHz_QPSK_26990_50RB#0



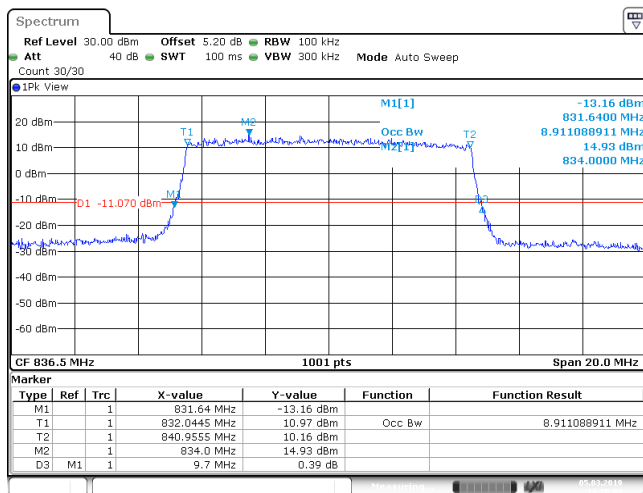
Date: 5 MAR 2019 13:20:13

Band26_10MHz_16QAM_26840_50RB#0



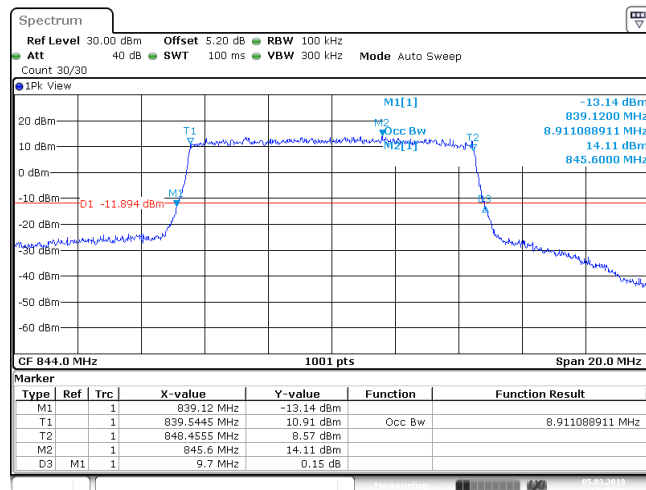
Date: 5 MAR 2019 13:19:37

Band26_10MHz_16QAM_26915_50RB#0



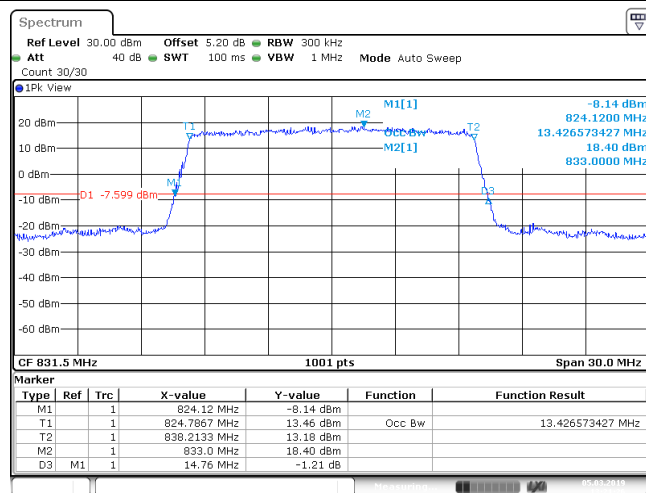
Date: 5 MAR 2019 13:20:01

Band26_10MHz_16QAM_26990_50RB#0



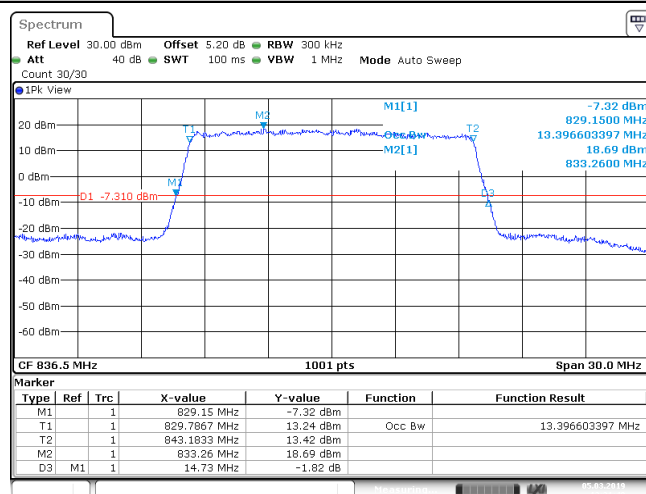
Date: 5 MAR 2019 13:20:23

Band26_15MHz_QPSK_26865_75RB#0



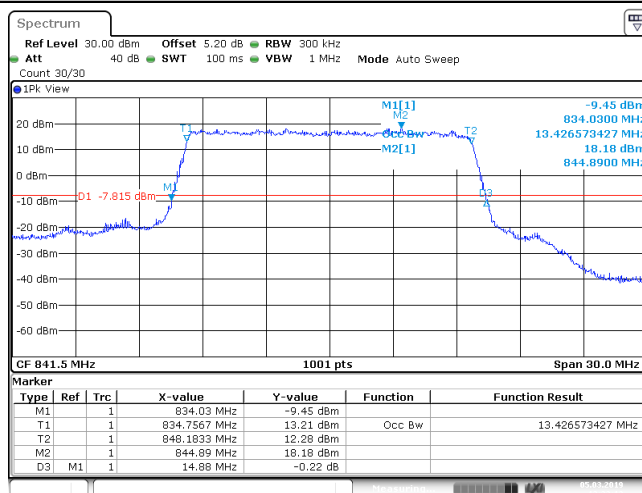
Date: 5 MAR 2019 13:21:27

Band26_15MHz_QPSK_26915_75RB#0



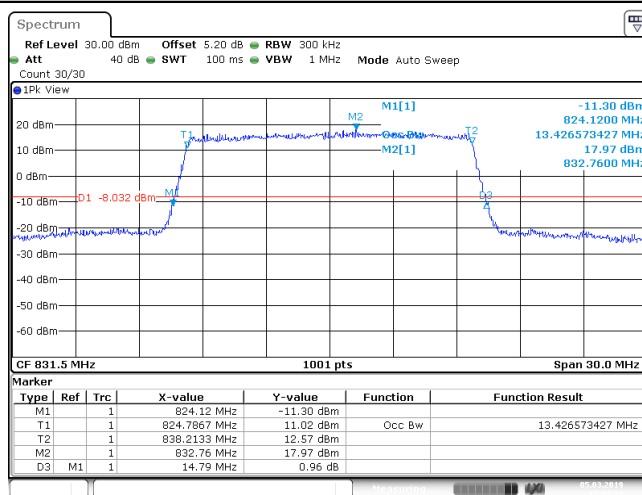
Date: 5 MAR 2019 13:21:49

Band26_15MHz_QPSK_26965_75RB#0



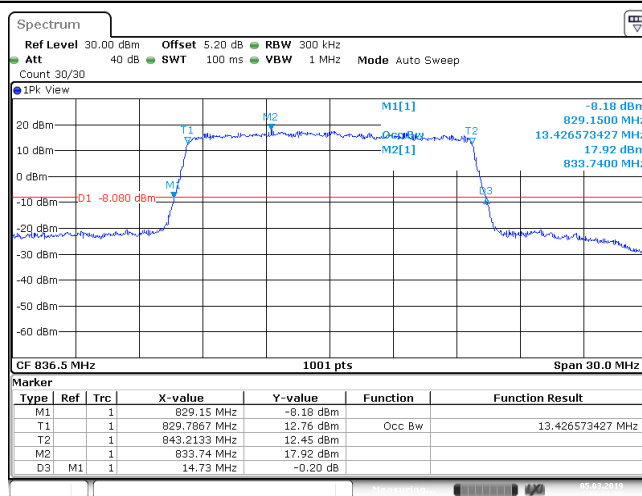
Date: 5 MAR 2019 13:22:12

Band26_15MHz_16QAM_26865_75RB#0

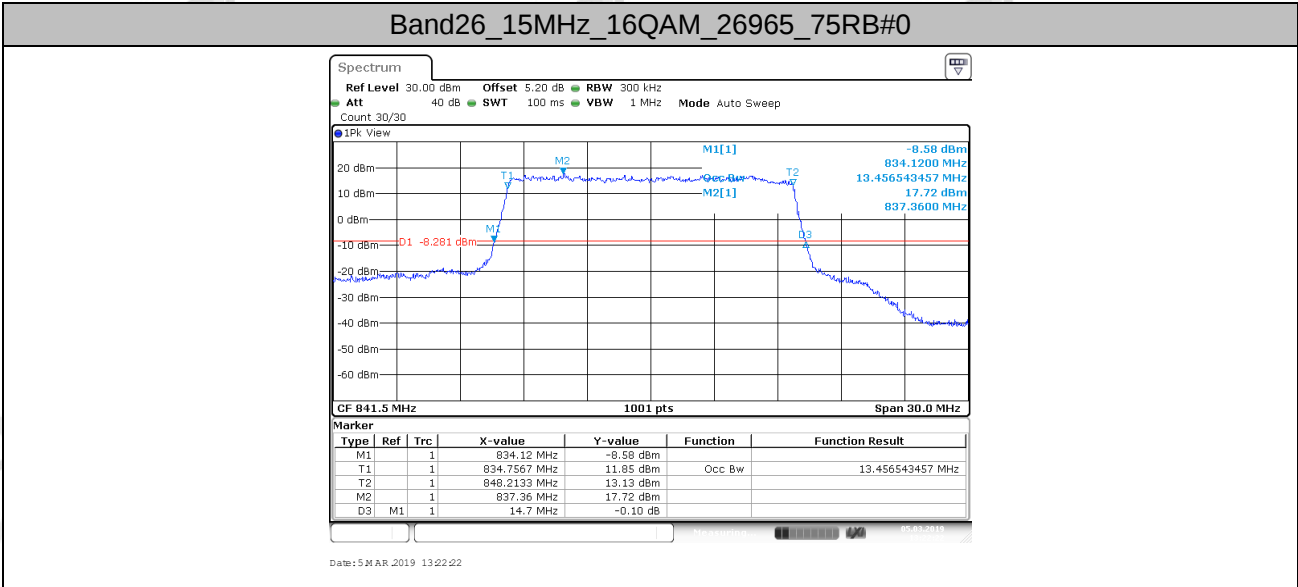


Date: 5 MAR 2019 13:21:37

Band26_15MHz_16QAM_26915_75RB#0



Date: 5 MAR 2019 13:21:59

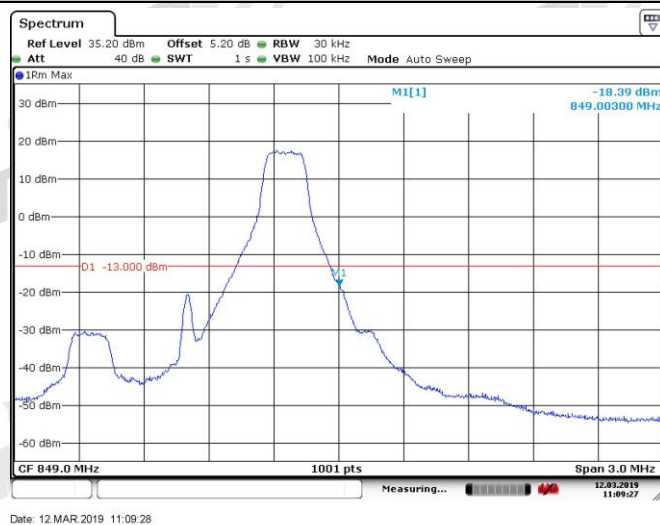


5. Band Edge Compliance

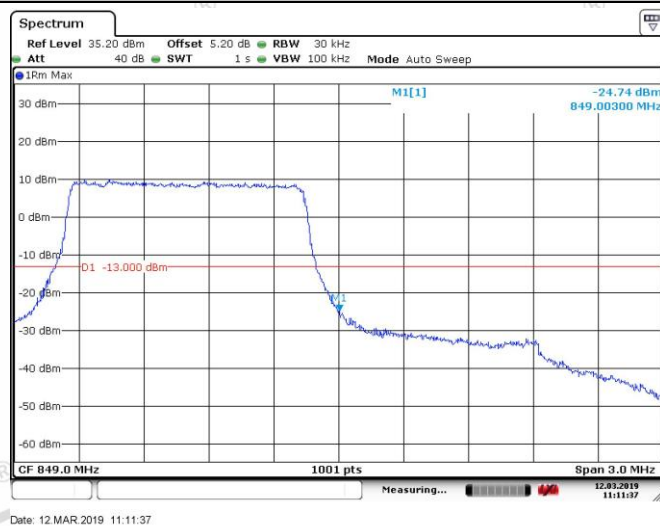
5.1. Test Plots



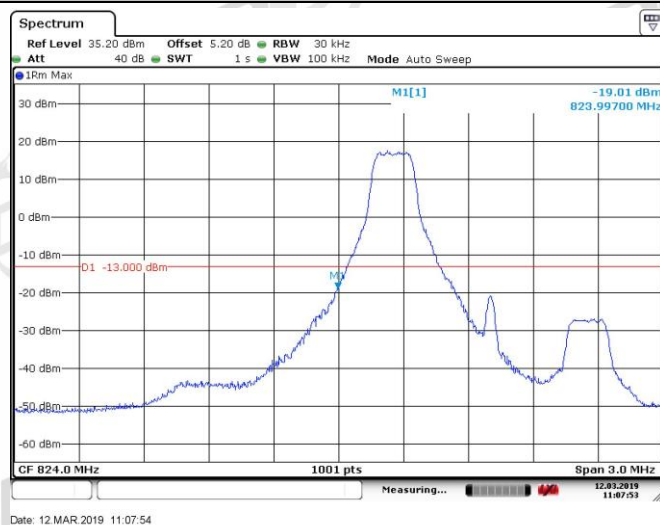
Band26_1.4MHz_QPSK_27033_1RB#5



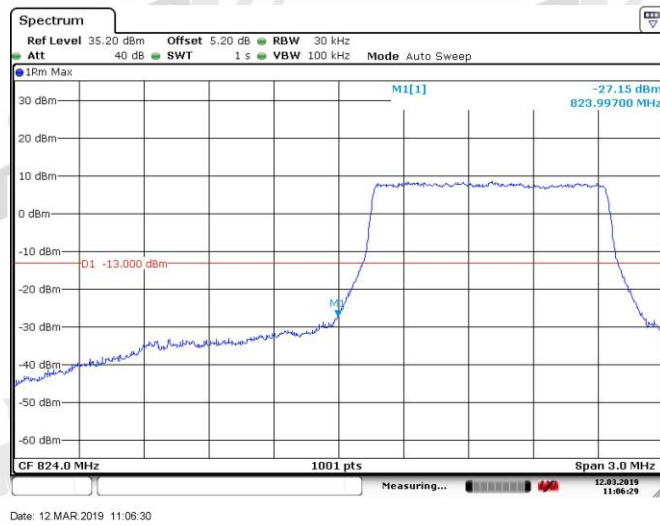
Band26_1.4MHz_QPSK_27033_6RB#0



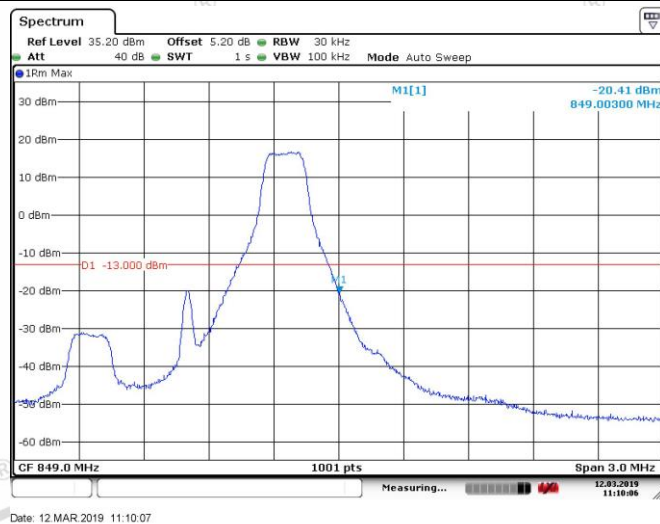
Band26_1.4MHz_16QAM_26797_1RB#0



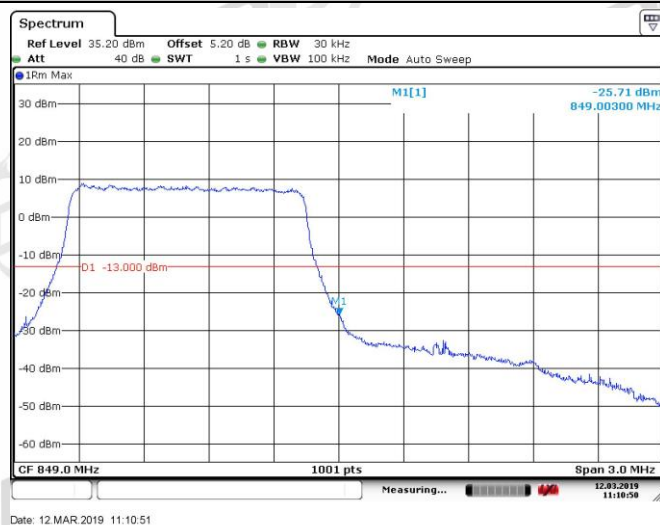
Band26_1.4MHz_16QAM_26797_6RB#0



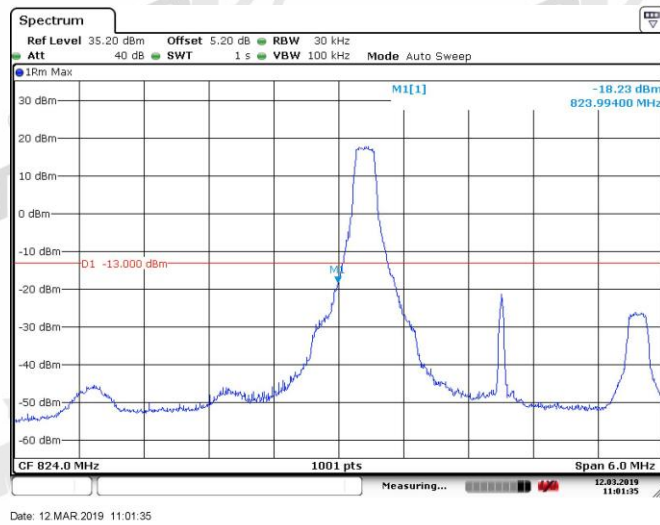
Band26_1.4MHz_16QAM_27033_1RB#5



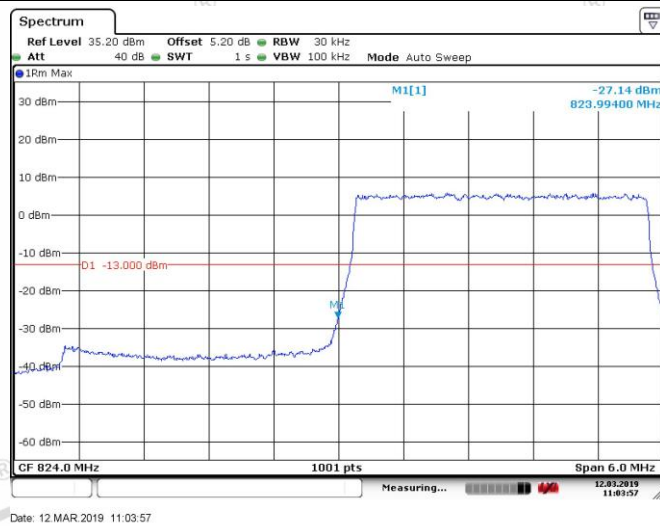
Band26_1.4MHz_16QAM_27033_6RB#0



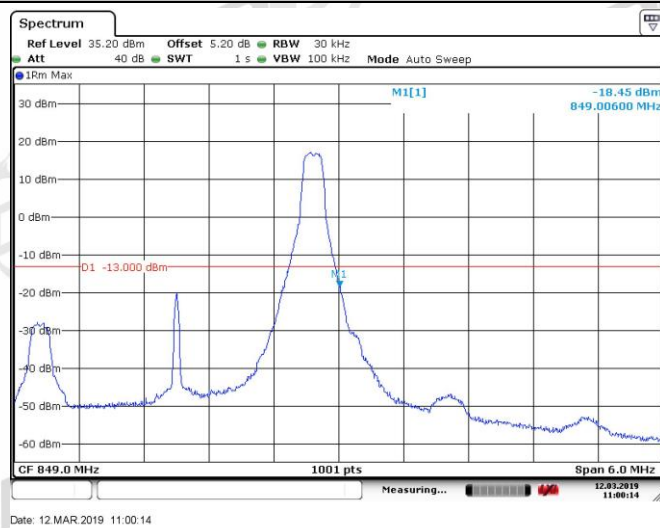
Band26_3MHz_QPSK_26805_1RB#0



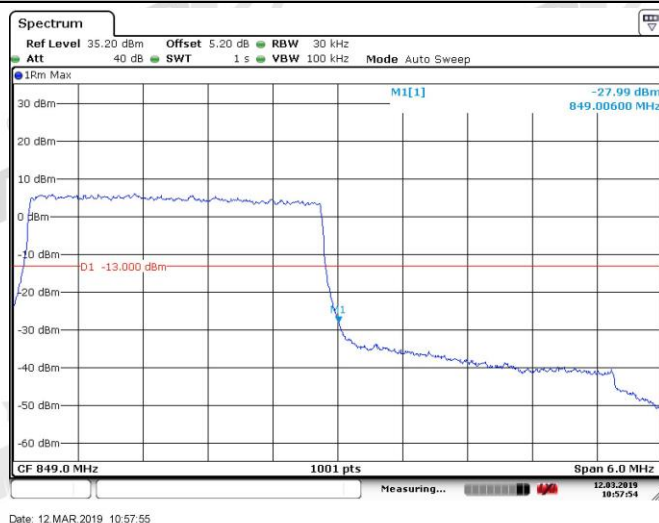
Band26_3MHz_QPSK_26805_15RB#0



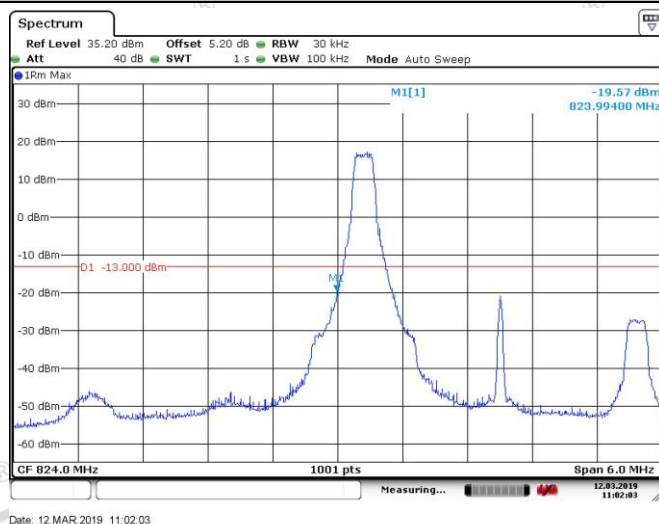
Band26_3MHz_QPSK_27025_1RB#14



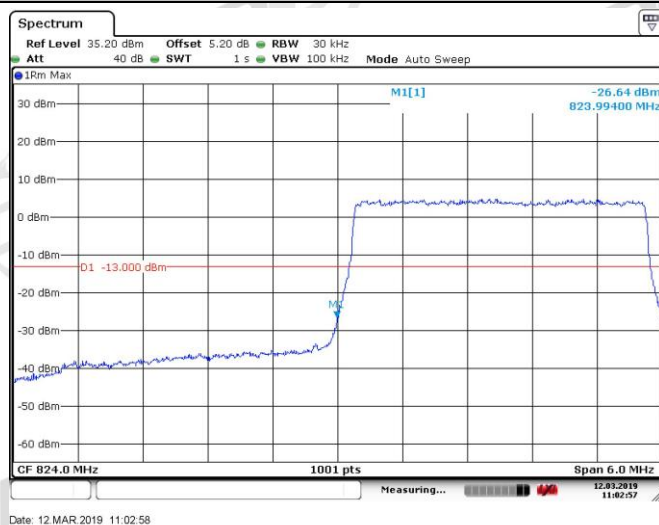
Band26_3MHz_QPSK_27025_15RB#0



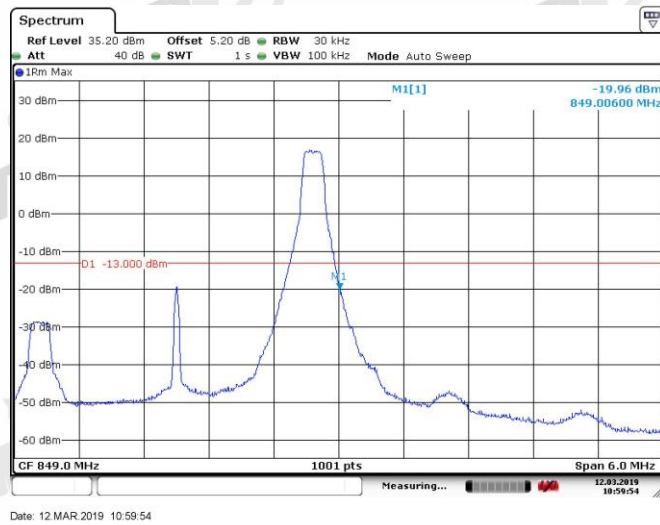
Band26_3MHz_16QAM_26805_1RB#0



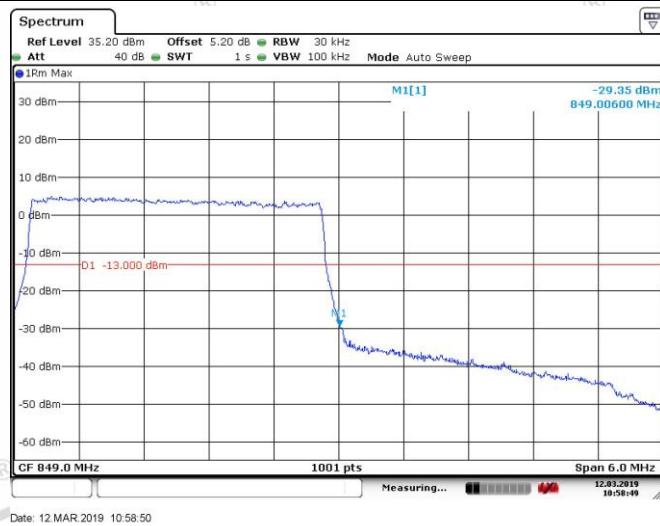
Band26_3MHz_16QAM_26805_15RB#0



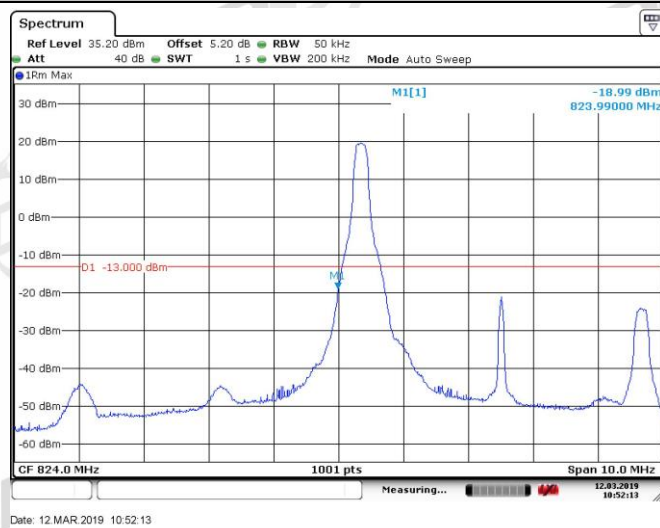
Band26_3MHz_16QAM_27025_1RB#14



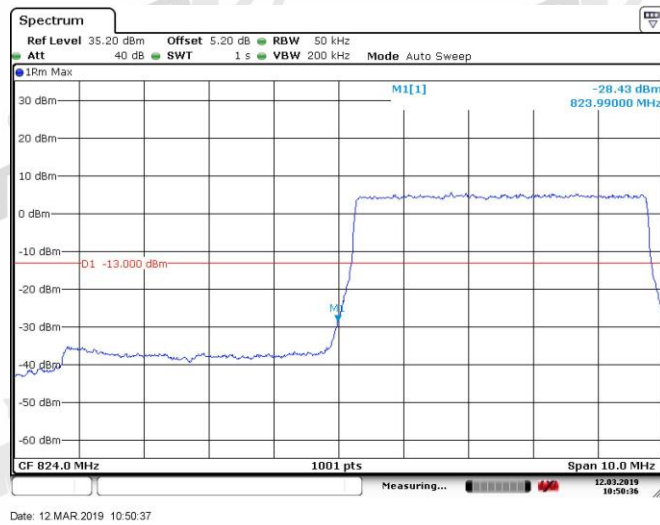
Band26_3MHz_16QAM_27025_15RB#0



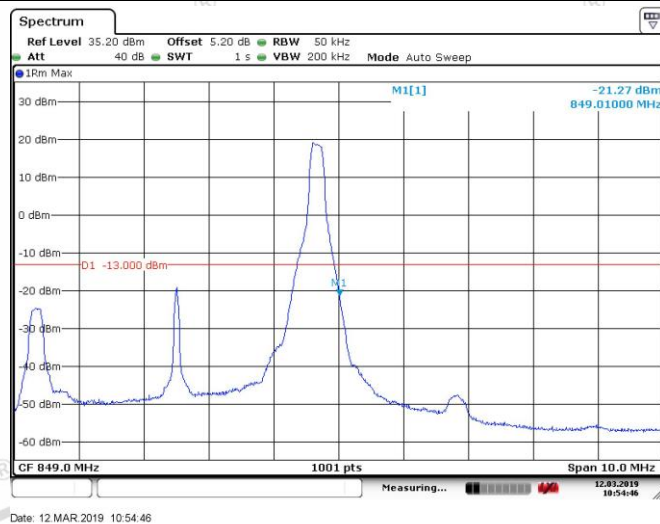
Band26_5MHz_QPSK_26815_1RB#0



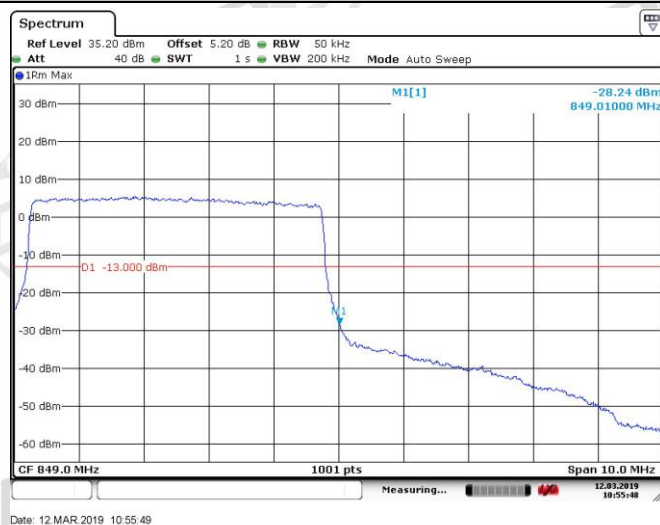
Band26_5MHz_QPSK_26815_25RB#0



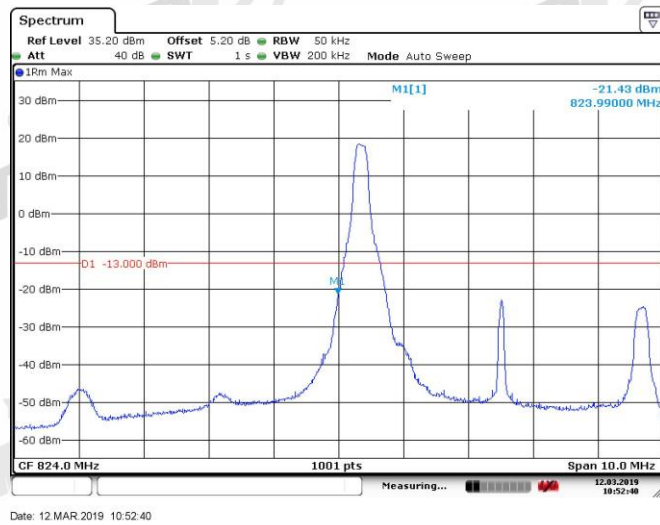
Band26_5MHz_QPSK_27015_1RB#24



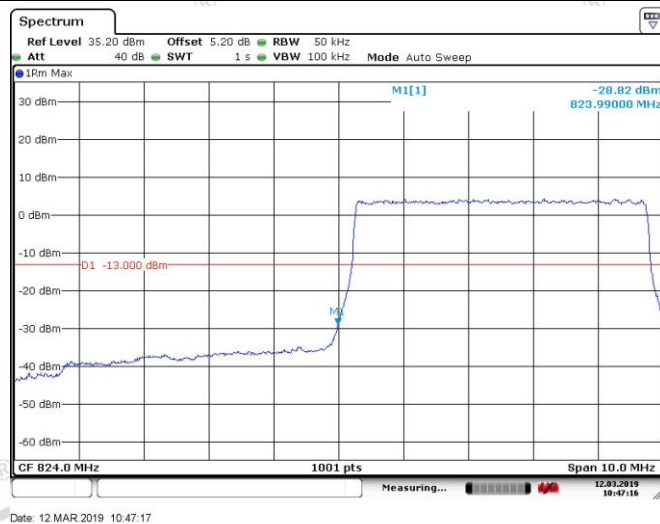
Band26_5MHz_QPSK_27015_25RB#0



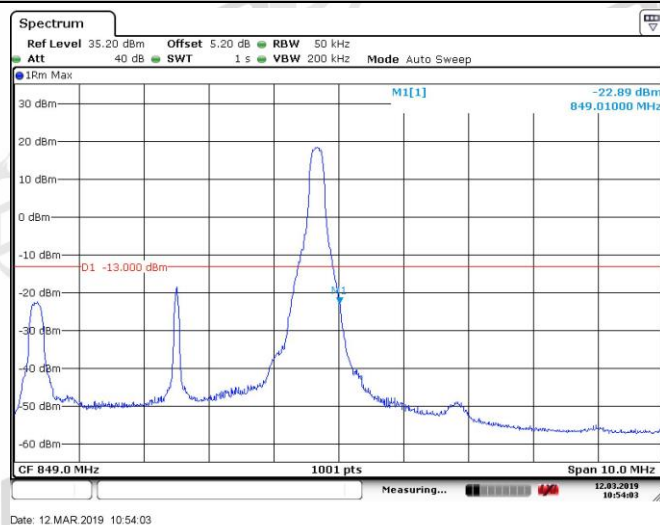
Band26_5MHz_16QAM_26815_1RB#0



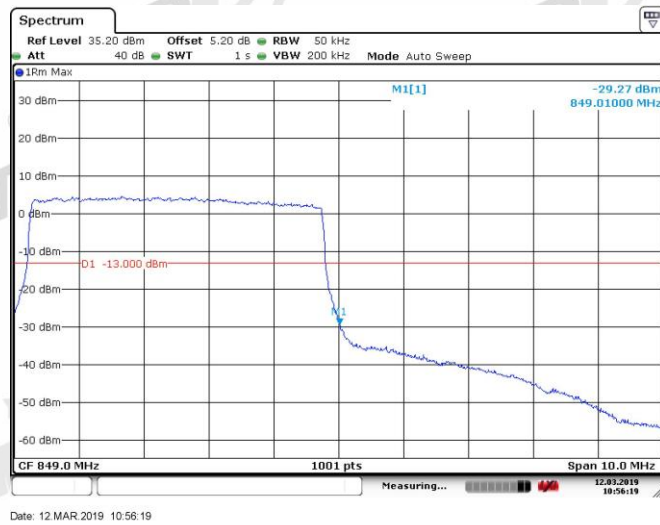
Band26_5MHz_16QAM_26815_25RB#0



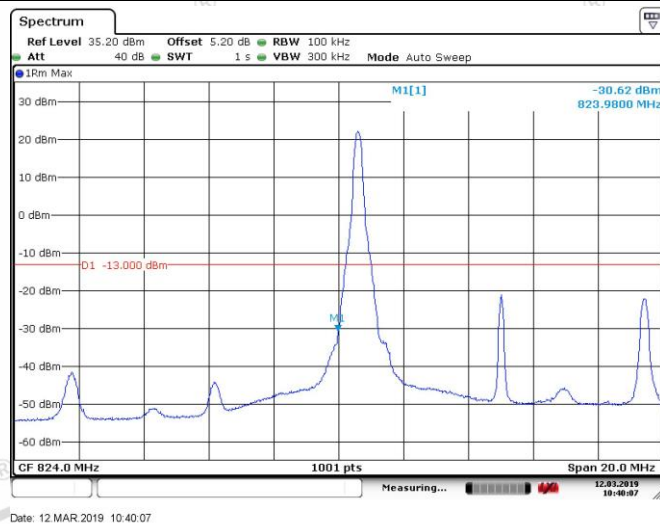
Band26_5MHz_16QAM_27015_1RB#24



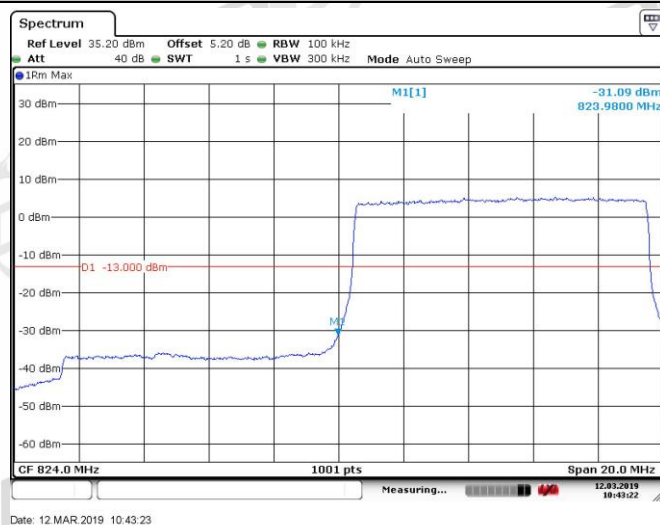
Band26_5MHz_16QAM_27015_25RB#0



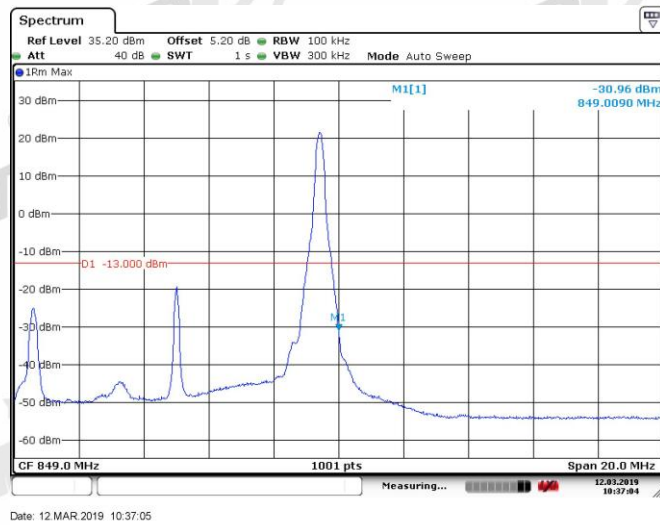
Band26_10MHz_QPSK_26840_1RB#0



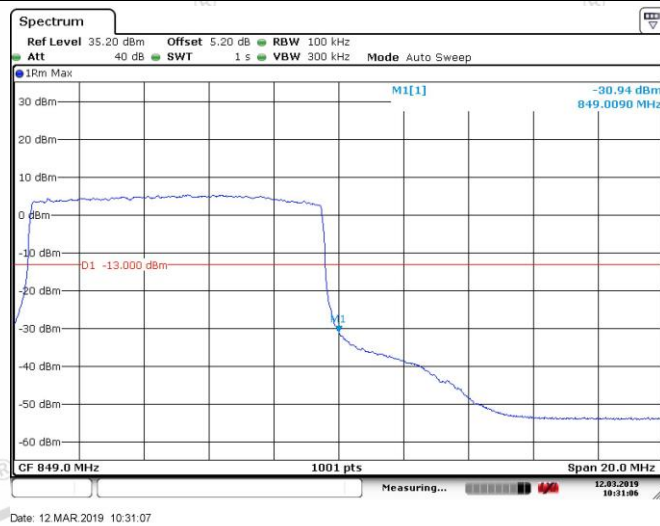
Band26_10MHz_QPSK_26840_50RB#0



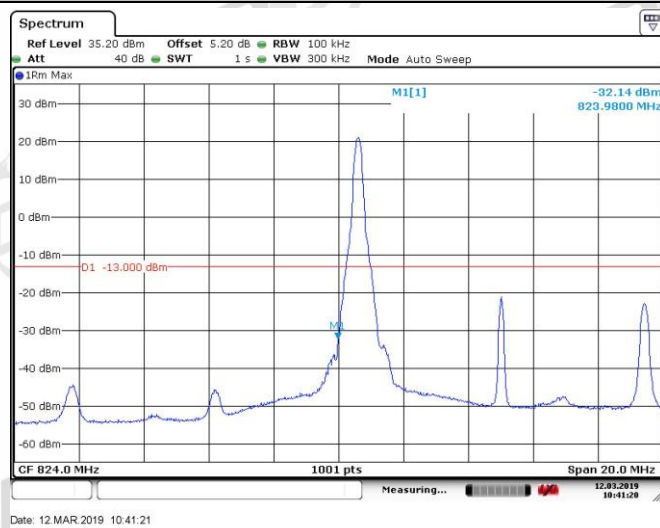
Band26_10MHz_QPSK_26990_1RB#49



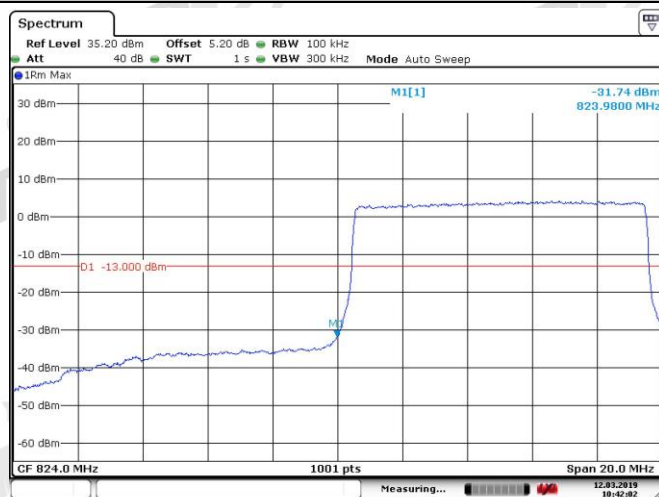
Band26_10MHz_QPSK_26990_50RB#0



Band26_10MHz_16QAM_26840_1RB#0

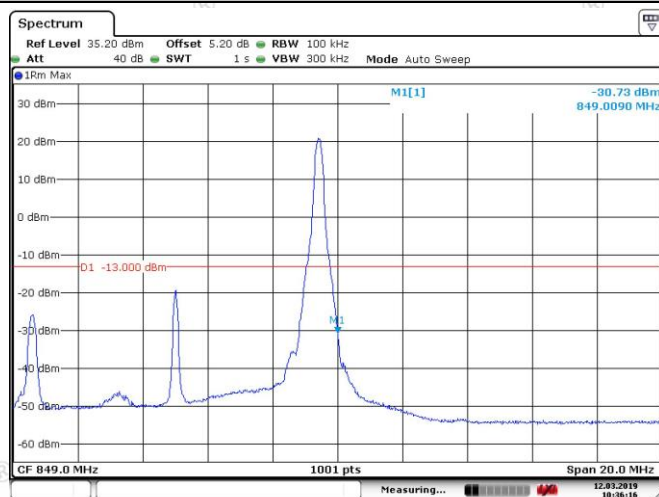


Band26_10MHz_16QAM_26840_50RB#0



Date: 12 MAR 2019 10:42:02

Band26_10MHz_16QAM_26990_1RB#49



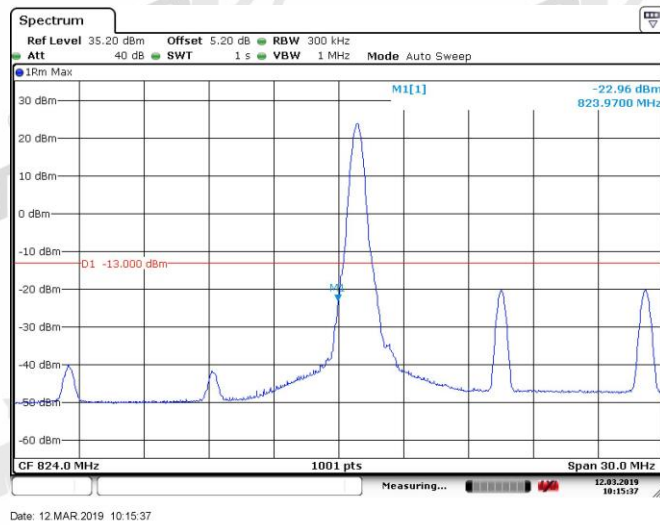
Date: 12 MAR 2019 10:36:16

Band26_10MHz_16QAM_26990_50RB#0

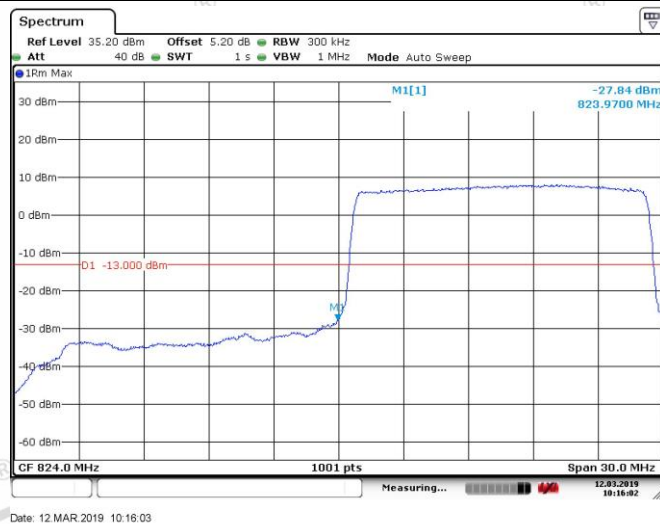


Date: 12 MAR 2019 10:31:30

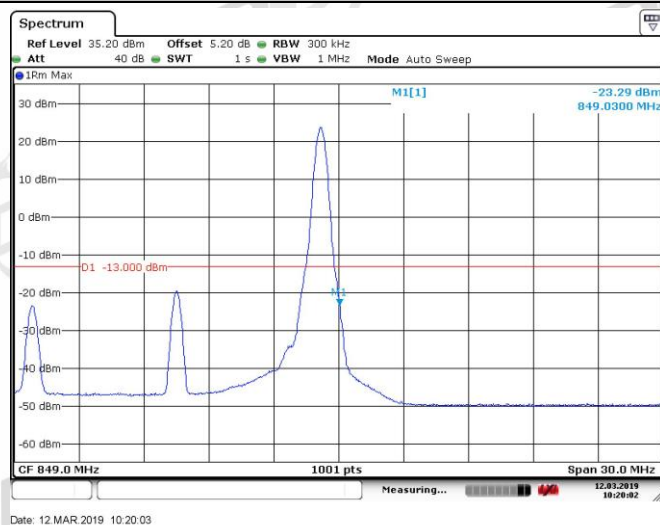
Band26_15MHz_QPSK_26865_1RB#0



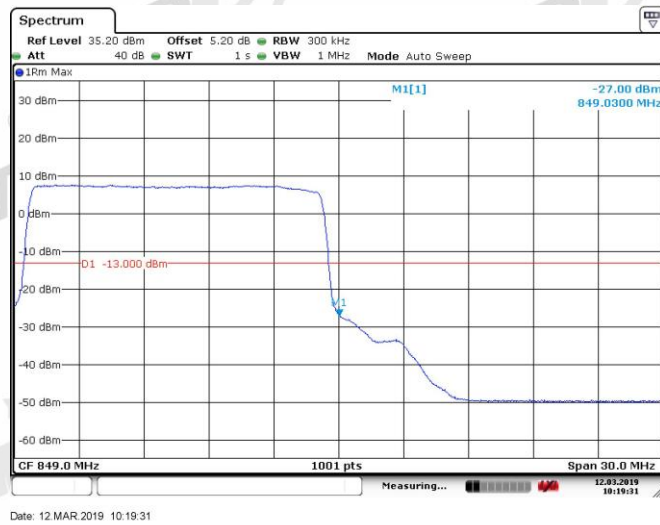
Band26_15MHz_QPSK_26865_75RB#0



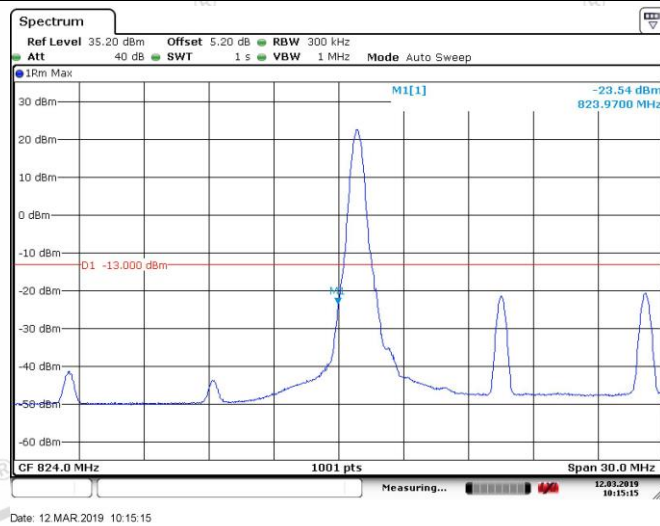
Band26_15MHz_QPSK_26965_1RB#74



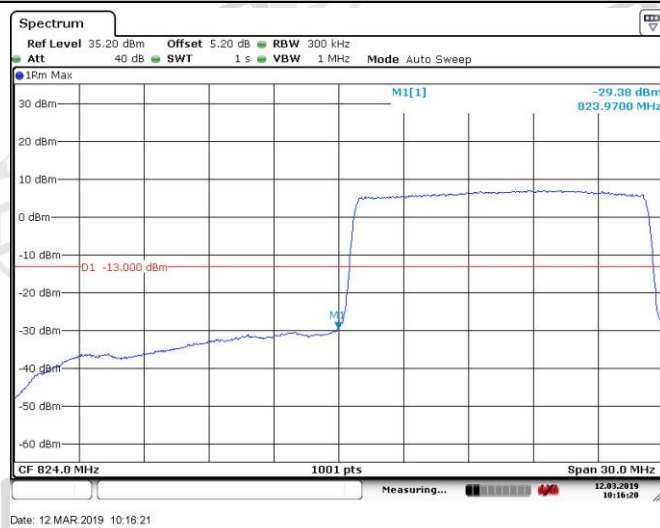
Band26_15MHz_QPSK_26965_75RB#0



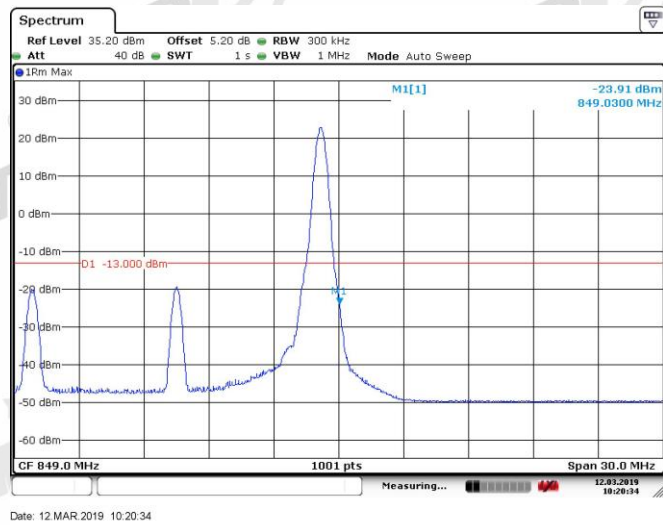
Band26_15MHz_16QAM_26865_1RB#0



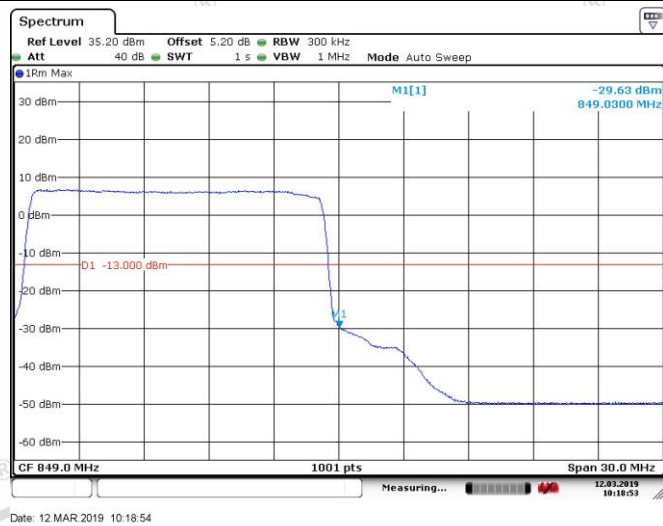
Band26_15MHz_16QAM_26865_75RB#0



Band26_15MHz_16QAM_26965_1RB#74



Band26_15MHz_16QAM_26965_75RB#0

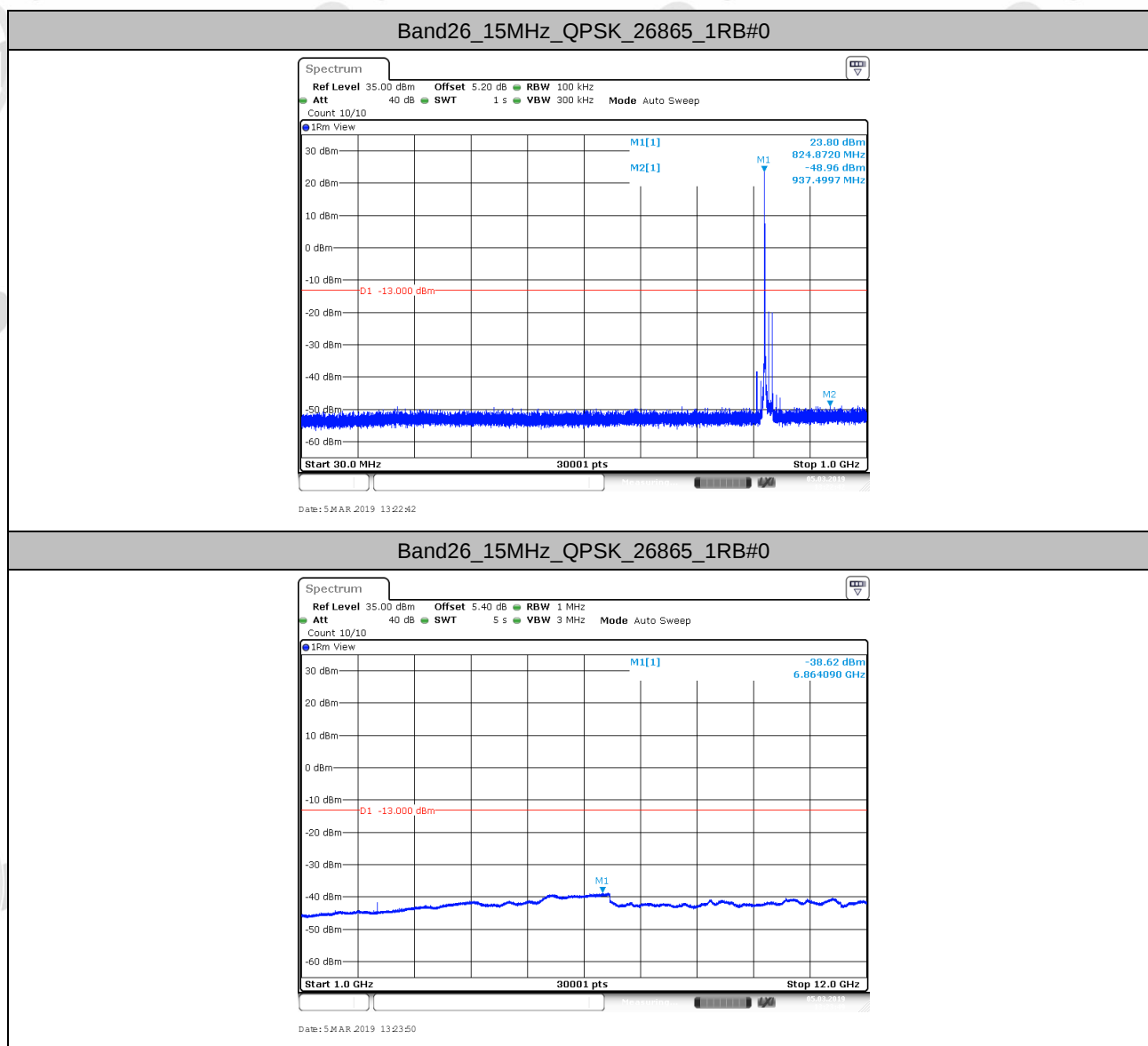


6. Spurious Emission at Antenna Terminal

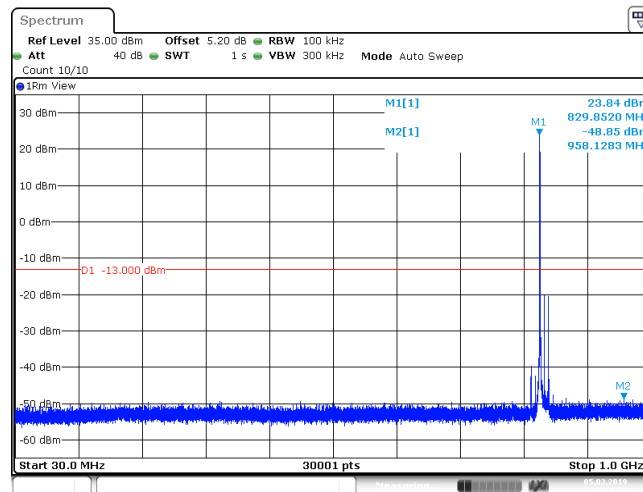
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

6.1. Test Plots

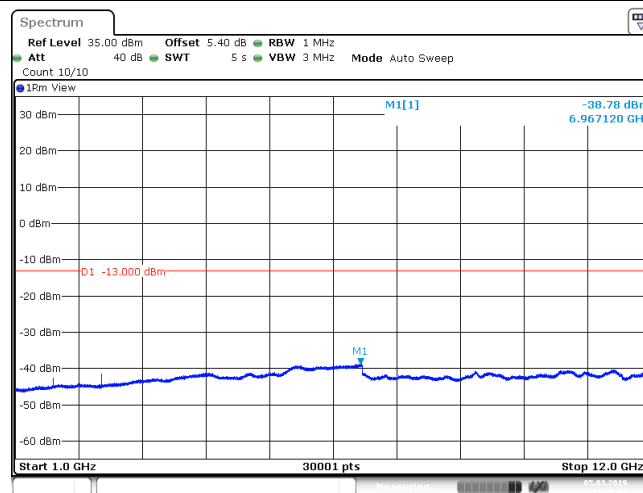


Band26_15MHz_QPSK_26915_1RB#0



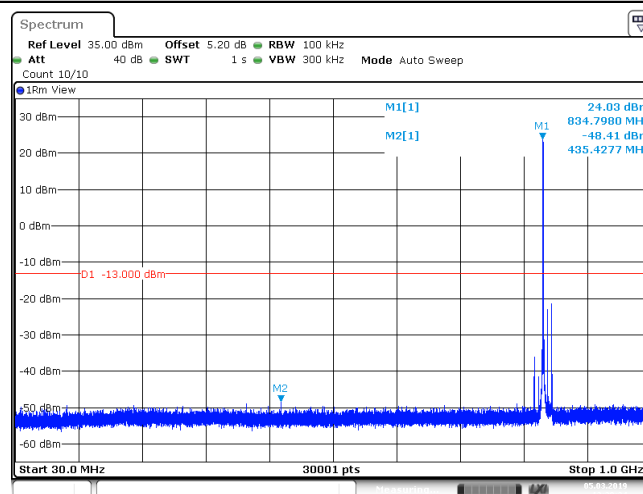
Date: 5 MAR 2019 13:25:33

Band26_15MHz_QPSK_26915_1RB#0



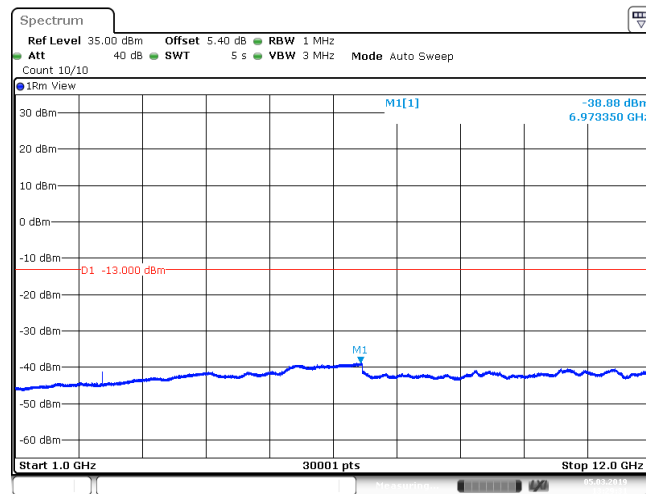
Date: 5 MAR 2019 13:26:41

Band26_15MHz_QPSK_26965_1RB#0



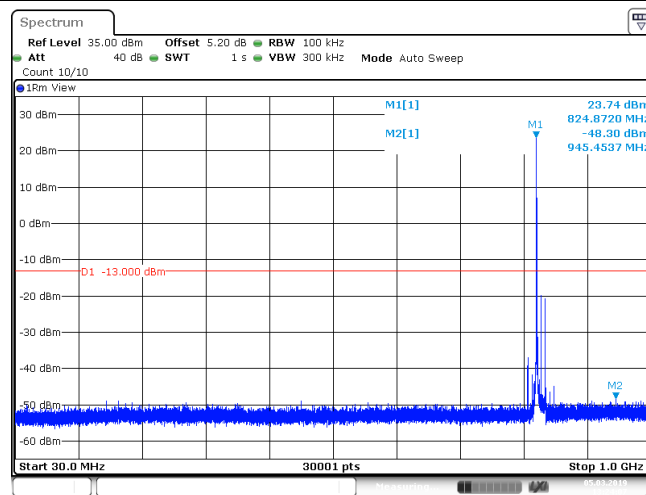
Date: 5 MAR 2019 13:28:24

Band26_15MHz_QPSK_26965_1RB#0



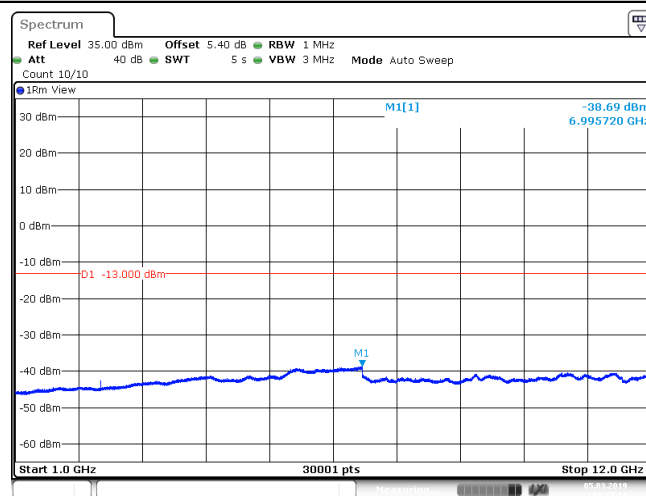
Date: 5 MAR 2019 13:29:32

Band26_15MHz_16QAM_26865_1RB#0



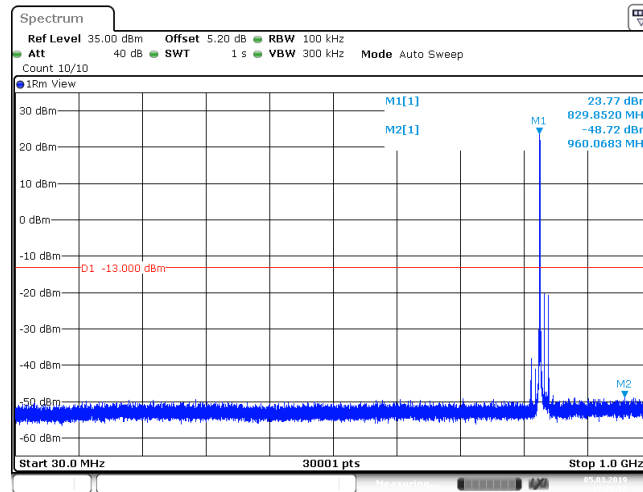
Date: 5 MAR 2019 13:24:07

Band26_15MHz_16QAM_26865_1RB#0



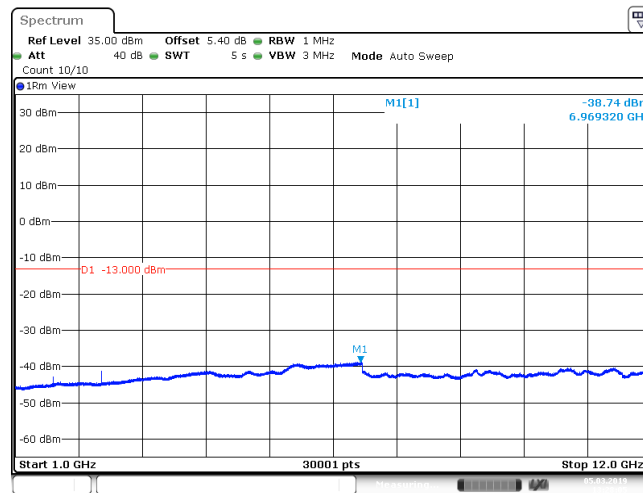
Date: 5 MAR 2019 13:25:14

Band26_15MHz_16QAM_26915_1RB#0



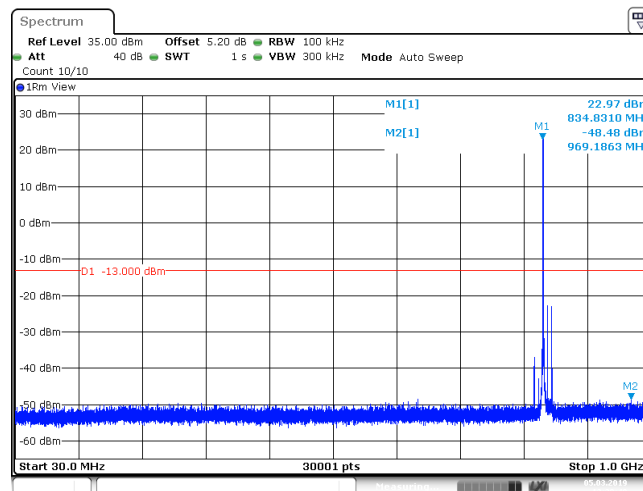
Date: 5 MAR 2019 13:26:58

Band26_15MHz_16QAM_26915_1RB#0



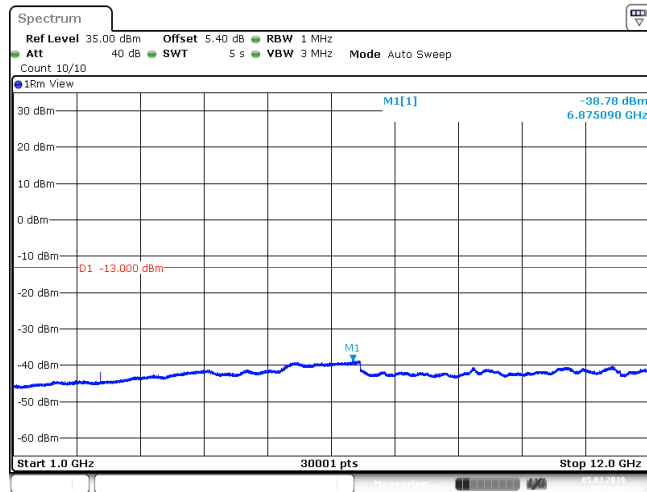
Date: 5 MAR 2019 13:28:05

Band26_15MHz_16QAM_26965_1RB#0



Date: 5 MAR 2019 13:29:49

Band26_15MHz_16QAM_26965_1RB#0



Date: 5 MAR 2019 13:30:56

7. Frequency Stability

7.1. 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	-0.30	-0.000361	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	VN	NT	0.00	0.000000	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	VH	NT	-5.10	-0.006133	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	VL	NT	-0.80	-0.000956	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	VN	NT	-0.50	-0.000598	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	VH	NT	-2.10	-0.002510	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	VL	NT	-2.20	-0.002614	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	VN	NT	-2.20	-0.002614	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	VH	NT	-1.40	-0.001664	±2.5	PASS
Band26	15MHz	16QAM	26865	75RB#0	VL	NT	0.80	0.000962	±2.5	PASS
Band26	15MHz	16QAM	26865	75RB#0	VN	NT	0.20	0.000241	±2.5	PASS
Band26	15MHz	16QAM	26865	75RB#0	VH	NT	1.70	0.002044	±2.5	PASS
Band26	15MHz	16QAM	26915	75RB#0	VL	NT	0.20	0.000239	±2.5	PASS
Band26	15MHz	16QAM	26915	75RB#0	VN	NT	0.90	0.001076	±2.5	PASS
Band26	15MHz	16QAM	26915	75RB#0	VH	NT	-0.50	-0.000598	±2.5	PASS
Band26	15MHz	16QAM	26965	75RB#0	VL	NT	-1.90	-0.002258	±2.5	PASS
Band26	15MHz	16QAM	26965	75RB#0	VN	NT	-2.80	-0.003327	±2.5	PASS
Band26	15MHz	16QAM	26965	75RB#0	VH	NT	-2.30	-0.002733	±2.5	PASS

7.2. 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	0.30	0.000361	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	NV	-20	0.60	0.000722	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	NV	0	-0.50	-0.000601	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	NV	10	-0.40	-0.000481	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	NV	20	0.50	0.000601	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	NV	30	0.10	0.000120	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	NV	40	0.50	0.000601	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	NV	50	-0.50	-0.000601	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	NV	-30	-0.40	-0.000478	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	NV	-20	-0.30	-0.000359	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	NV	0	-0.50	-0.000598	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	NV	10	-1.10	-0.001315	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	NV	20	-0.40	-0.000478	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	NV	30	-1.70	-0.002032	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	NV	40	-1.00	-0.001195	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	NV	50	-1.00	-0.001195	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	NV	-30	-1.00	-0.001188	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	NV	-20	-2.10	-0.002496	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	NV	0	-2.60	-0.003090	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	NV	10	-1.20	-0.001426	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	NV	20	0.10	0.000119	±2.5	PASS

Band26	15MHz	QPSK	26965	75RB#0	NV	30	-3.30	-0.003922	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	NV	40	-0.70	-0.000832	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	NV	50	-0.60	-0.000713	±2.5	PASS
Band26	15MHz	16QAM	26865	75RB#0	NV	-30	0.40	0.000481	±2.5	PASS
Band26	15MHz	16QAM	26865	75RB#0	NV	-20	0.10	0.000120	±2.5	PASS
Band26	15MHz	16QAM	26865	75RB#0	NV	0	-0.10	-0.000120	±2.5	PASS
Band26	15MHz	16QAM	26865	75RB#0	NV	10	-1.40	-0.001684	±2.5	PASS
Band26	15MHz	16QAM	26865	75RB#0	NV	20	0.00	0.000000	±2.5	PASS
Band26	15MHz	16QAM	26865	75RB#0	NV	30	1.00	0.001203	±2.5	PASS
Band26	15MHz	16QAM	26865	75RB#0	NV	40	0.90	0.001082	±2.5	PASS
Band26	15MHz	16QAM	26865	75RB#0	NV	50	-0.10	-0.000120	±2.5	PASS
Band26	15MHz	16QAM	26915	75RB#0	NV	-30	-1.70	-0.002032	±2.5	PASS
Band26	15MHz	16QAM	26915	75RB#0	NV	-20	-1.60	-0.001913	±2.5	PASS
Band26	15MHz	16QAM	26915	75RB#0	NV	0	-0.50	-0.000598	±2.5	PASS
Band26	15MHz	16QAM	26915	75RB#0	NV	10	-0.10	-0.000120	±2.5	PASS
Band26	15MHz	16QAM	26915	75RB#0	NV	20	0.20	0.000239	±2.5	PASS
Band26	15MHz	16QAM	26915	75RB#0	NV	30	0.60	0.000717	±2.5	PASS
Band26	15MHz	16QAM	26915	75RB#0	NV	40	0.00	0.000000	±2.5	PASS
Band26	15MHz	16QAM	26915	75RB#0	NV	50	0.80	0.000956	±2.5	PASS
Band26	15MHz	16QAM	26965	75RB#0	NV	-30	-1.60	-0.001901	±2.5	PASS
Band26	15MHz	16QAM	26965	75RB#0	NV	-20	-1.90	-0.002258	±2.5	PASS
Band26	15MHz	16QAM	26965	75RB#0	NV	0	-0.90	-0.001070	±2.5	PASS
Band26	15MHz	16QAM	26965	75RB#0	NV	10	-2.40	-0.002852	±2.5	PASS
Band26	15MHz	16QAM	26965	75RB#0	NV	20	-1.30	-0.001545	±2.5	PASS
Band26	15MHz	16QAM	26965	75RB#0	NV	30	-1.70	-0.002020	±2.5	PASS
Band26	15MHz	16QAM	26965	75RB#0	NV	40	-1.70	-0.002020	±2.5	PASS
Band26	15MHz	16QAM	26965	75RB#0	NV	50	-1.00	-0.001188	±2.5	PASS

The End