

Appendix B.5

E-UTRA Band 66

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	2019/6/12	2020/6/11
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	2019/6/12	2020/6/11
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]	$U = \pm 0.37 \text{ dB}$
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)	EIRP (dBm)	limit (dBm)	Verdict
Band66	1.4MHz	QPSK	131979	1RB#0	21.91	20.71	30.00	PASS
Band66	1.4MHz	QPSK	131979	1RB#2	21.52	20.32	30.00	PASS
Band66	1.4MHz	QPSK	131979	1RB#5	21.54	20.34	30.00	PASS
Band66	1.4MHz	QPSK	131979	3RB#0	20.81	19.61	30.00	PASS
Band66	1.4MHz	QPSK	131979	3RB#1	20.69	19.49	30.00	PASS
Band66	1.4MHz	QPSK	131979	3RB#3	20.66	19.46	30.00	PASS
Band66	1.4MHz	QPSK	131979	6RB#0	20.78	19.58	30.00	PASS
Band66	1.4MHz	QPSK	132322	1RB#0	21.98	20.78	30.00	PASS
Band66	1.4MHz	QPSK	132322	1RB#2	21.85	20.65	30.00	PASS
Band66	1.4MHz	QPSK	132322	1RB#5	21.50	20.30	30.00	PASS
Band66	1.4MHz	QPSK	132322	3RB#0	20.79	19.59	30.00	PASS
Band66	1.4MHz	QPSK	132322	3RB#1	20.72	19.52	30.00	PASS
Band66	1.4MHz	QPSK	132322	3RB#3	20.53	19.33	30.00	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	20.81	19.61	30.00	PASS
Band66	1.4MHz	QPSK	132665	1RB#0	21.80	20.60	30.00	PASS
Band66	1.4MHz	QPSK	132665	1RB#2	21.82	20.62	30.00	PASS
Band66	1.4MHz	QPSK	132665	1RB#5	21.64	20.44	30.00	PASS
Band66	1.4MHz	QPSK	132665	3RB#0	20.72	19.52	30.00	PASS
Band66	1.4MHz	QPSK	132665	3RB#1	20.72	19.52	30.00	PASS
Band66	1.4MHz	QPSK	132665	3RB#3	20.73	19.53	30.00	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	20.82	19.62	30.00	PASS
Band66	1.4MHz	16QAM	131979	1RB#0	20.48	19.28	30.00	PASS
Band66	1.4MHz	16QAM	131979	1RB#2	20.62	19.42	30.00	PASS
Band66	1.4MHz	16QAM	131979	1RB#5	20.50	19.30	30.00	PASS
Band66	1.4MHz	16QAM	131979	3RB#0	19.75	18.55	30.00	PASS
Band66	1.4MHz	16QAM	131979	3RB#1	19.64	18.44	30.00	PASS
Band66	1.4MHz	16QAM	131979	3RB#3	19.65	18.45	30.00	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	19.70	18.50	30.00	PASS
Band66	1.4MHz	16QAM	132322	1RB#0	20.51	19.31	30.00	PASS
Band66	1.4MHz	16QAM	132322	1RB#2	20.10	18.90	30.00	PASS
Band66	1.4MHz	16QAM	132322	1RB#5	20.15	18.95	30.00	PASS
Band66	1.4MHz	16QAM	132322	3RB#0	19.96	18.76	30.00	PASS
Band66	1.4MHz	16QAM	132322	3RB#1	19.61	18.41	30.00	PASS
Band66	1.4MHz	16QAM	132322	3RB#3	19.54	18.34	30.00	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	19.74	18.54	30.00	PASS
Band66	1.4MHz	16QAM	132665	1RB#0	20.64	19.44	30.00	PASS
Band66	1.4MHz	16QAM	132665	1RB#2	20.98	19.78	30.00	PASS

Band66	1.4MHz	16QAM	132665	1RB#5	20.80	19.60	30.00	PASS
Band66	1.4MHz	16QAM	132665	3RB#0	19.65	18.45	30.00	PASS
Band66	1.4MHz	16QAM	132665	3RB#1	19.80	18.60	30.00	PASS
Band66	1.4MHz	16QAM	132665	3RB#3	19.91	18.71	30.00	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	19.88	18.68	30.00	PASS
Band66	3MHz	QPSK	131987	1RB#0	21.97	20.77	30.00	PASS
Band66	3MHz	QPSK	131987	1RB#8	21.53	20.33	30.00	PASS
Band66	3MHz	QPSK	131987	1RB#14	21.52	20.32	30.00	PASS
Band66	3MHz	QPSK	131987	8RB#0	20.80	19.60	30.00	PASS
Band66	3MHz	QPSK	131987	8RB#4	20.67	19.47	30.00	PASS
Band66	3MHz	QPSK	131987	8RB#7	20.70	19.50	30.00	PASS
Band66	3MHz	QPSK	131987	15RB#0	20.71	19.51	30.00	PASS
Band66	3MHz	QPSK	132322	1RB#0	21.94	20.74	30.00	PASS
Band66	3MHz	QPSK	132322	1RB#8	21.81	20.61	30.00	PASS
Band66	3MHz	QPSK	132322	1RB#14	21.56	20.36	30.00	PASS
Band66	3MHz	QPSK	132322	8RB#0	20.82	19.62	30.00	PASS
Band66	3MHz	QPSK	132322	8RB#4	20.66	19.46	30.00	PASS
Band66	3MHz	QPSK	132322	8RB#7	20.57	19.37	30.00	PASS
Band66	3MHz	QPSK	132322	15RB#0	20.81	19.61	30.00	PASS
Band66	3MHz	QPSK	132657	1RB#0	21.80	20.60	30.00	PASS
Band66	3MHz	QPSK	132657	1RB#8	21.77	20.57	30.00	PASS
Band66	3MHz	QPSK	132657	1RB#14	21.57	20.37	30.00	PASS
Band66	3MHz	QPSK	132657	8RB#0	20.81	19.61	30.00	PASS
Band66	3MHz	QPSK	132657	8RB#4	20.71	19.51	30.00	PASS
Band66	3MHz	QPSK	132657	8RB#7	20.71	19.51	30.00	PASS
Band66	3MHz	QPSK	132657	15RB#0	20.83	19.63	30.00	PASS
Band66	3MHz	16QAM	131987	1RB#0	20.46	19.26	30.00	PASS
Band66	3MHz	16QAM	131987	1RB#8	20.62	19.42	30.00	PASS
Band66	3MHz	16QAM	131987	1RB#14	20.47	19.27	30.00	PASS
Band66	3MHz	16QAM	131987	8RB#0	19.81	18.61	30.00	PASS
Band66	3MHz	16QAM	131987	8RB#4	19.58	18.38	30.00	PASS
Band66	3MHz	16QAM	131987	8RB#7	19.63	18.43	30.00	PASS
Band66	3MHz	16QAM	131987	15RB#0	19.74	18.54	30.00	PASS
Band66	3MHz	16QAM	132322	1RB#0	20.48	19.28	30.00	PASS
Band66	3MHz	16QAM	132322	1RB#8	20.10	18.90	30.00	PASS
Band66	3MHz	16QAM	132322	1RB#14	20.20	19.00	30.00	PASS
Band66	3MHz	16QAM	132322	8RB#0	19.96	18.76	30.00	PASS
Band66	3MHz	16QAM	132322	8RB#4	19.64	18.44	30.00	PASS
Band66	3MHz	16QAM	132322	8RB#7	19.56	18.36	30.00	PASS
Band66	3MHz	16QAM	132322	15RB#0	19.76	18.56	30.00	PASS
Band66	3MHz	16QAM	132657	1RB#0	20.68	19.48	30.00	PASS
Band66	3MHz	16QAM	132657	1RB#8	21.02	19.82	30.00	PASS
Band66	3MHz	16QAM	132657	1RB#14	20.78	19.58	30.00	PASS
Band66	3MHz	16QAM	132657	8RB#0	19.71	18.51	30.00	PASS

Band66	3MHz	16QAM	132657	8RB#4	19.77	18.57	30.00	PASS
Band66	3MHz	16QAM	132657	8RB#7	19.93	18.73	30.00	PASS
Band66	3MHz	16QAM	132657	15RB#0	19.92	18.72	30.00	PASS
Band66	5MHz	QPSK	131997	1RB#0	21.53	20.33	30.00	PASS
Band66	5MHz	QPSK	131997	1RB#12	21.50	20.30	30.00	PASS
Band66	5MHz	QPSK	131997	1RB#24	21.41	20.21	30.00	PASS
Band66	5MHz	QPSK	131997	12RB#0	20.80	19.60	30.00	PASS
Band66	5MHz	QPSK	131997	12RB#6	20.80	19.60	30.00	PASS
Band66	5MHz	QPSK	131997	12RB#13	20.71	19.51	30.00	PASS
Band66	5MHz	QPSK	131997	25RB#0	20.74	19.54	30.00	PASS
Band66	5MHz	QPSK	132322	1RB#0	21.43	20.23	30.00	PASS
Band66	5MHz	QPSK	132322	1RB#12	21.22	20.02	30.00	PASS
Band66	5MHz	QPSK	132322	1RB#24	21.19	19.99	30.00	PASS
Band66	5MHz	QPSK	132322	12RB#0	20.59	19.39	30.00	PASS
Band66	5MHz	QPSK	132322	12RB#6	20.51	19.31	30.00	PASS
Band66	5MHz	QPSK	132322	12RB#13	20.43	19.23	30.00	PASS
Band66	5MHz	QPSK	132322	25RB#0	20.47	19.27	30.00	PASS
Band66	5MHz	QPSK	132647	1RB#0	21.86	20.66	30.00	PASS
Band66	5MHz	QPSK	132647	1RB#12	21.36	20.16	30.00	PASS
Band66	5MHz	QPSK	132647	1RB#24	21.23	20.03	30.00	PASS
Band66	5MHz	QPSK	132647	12RB#0	20.81	19.61	30.00	PASS
Band66	5MHz	QPSK	132647	12RB#6	20.74	19.54	30.00	PASS
Band66	5MHz	QPSK	132647	12RB#13	20.63	19.43	30.00	PASS
Band66	5MHz	QPSK	132647	25RB#0	20.81	19.61	30.00	PASS
Band66	5MHz	16QAM	131997	1RB#0	20.44	19.24	30.00	PASS
Band66	5MHz	16QAM	131997	1RB#12	20.38	19.18	30.00	PASS
Band66	5MHz	16QAM	131997	1RB#24	20.62	19.42	30.00	PASS
Band66	5MHz	16QAM	131997	12RB#0	19.72	18.52	30.00	PASS
Band66	5MHz	16QAM	131997	12RB#6	19.79	18.59	30.00	PASS
Band66	5MHz	16QAM	131997	12RB#13	19.82	18.62	30.00	PASS
Band66	5MHz	16QAM	131997	25RB#0	19.72	18.52	30.00	PASS
Band66	5MHz	16QAM	132322	1RB#0	20.36	19.16	30.00	PASS
Band66	5MHz	16QAM	132322	1RB#12	20.03	18.83	30.00	PASS
Band66	5MHz	16QAM	132322	1RB#24	20.65	19.45	30.00	PASS
Band66	5MHz	16QAM	132322	12RB#0	19.40	18.20	30.00	PASS
Band66	5MHz	16QAM	132322	12RB#6	19.35	18.15	30.00	PASS
Band66	5MHz	16QAM	132322	12RB#13	19.48	18.28	30.00	PASS
Band66	5MHz	16QAM	132322	25RB#0	19.60	18.40	30.00	PASS
Band66	5MHz	16QAM	132647	1RB#0	20.03	18.83	30.00	PASS
Band66	5MHz	16QAM	132647	1RB#12	20.30	19.10	30.00	PASS
Band66	5MHz	16QAM	132647	1RB#24	19.79	18.59	30.00	PASS
Band66	5MHz	16QAM	132647	12RB#0	19.68	18.48	30.00	PASS
Band66	5MHz	16QAM	132647	12RB#6	19.58	18.38	30.00	PASS
Band66	5MHz	16QAM	132647	12RB#13	19.36	18.16	30.00	PASS

Band66	5MHz	16QAM	132647	25RB#0	19.62	18.42	30.00	PASS
Band66	10MHz	QPSK	132022	1RB#0	21.50	20.30	30.00	PASS
Band66	10MHz	QPSK	132022	1RB#24	21.49	20.29	30.00	PASS
Band66	10MHz	QPSK	132022	1RB#49	21.41	20.21	30.00	PASS
Band66	10MHz	QPSK	132022	25RB#0	20.84	19.64	30.00	PASS
Band66	10MHz	QPSK	132022	25RB#12	20.69	19.49	30.00	PASS
Band66	10MHz	QPSK	132022	25RB#25	20.78	19.58	30.00	PASS
Band66	10MHz	QPSK	132022	50RB#0	20.72	19.52	30.00	PASS
Band66	10MHz	QPSK	132322	1RB#0	21.69	20.49	30.00	PASS
Band66	10MHz	QPSK	132322	1RB#24	21.68	20.48	30.00	PASS
Band66	10MHz	QPSK	132322	1RB#49	21.46	20.26	30.00	PASS
Band66	10MHz	QPSK	132322	25RB#0	20.88	19.68	30.00	PASS
Band66	10MHz	QPSK	132322	25RB#12	20.61	19.41	30.00	PASS
Band66	10MHz	QPSK	132322	25RB#25	20.42	19.22	30.00	PASS
Band66	10MHz	QPSK	132322	50RB#0	20.61	19.41	30.00	PASS
Band66	10MHz	QPSK	132622	1RB#0	21.80	20.60	30.00	PASS
Band66	10MHz	QPSK	132622	1RB#24	22.10	20.90	30.00	PASS
Band66	10MHz	QPSK	132622	1RB#49	21.49	20.29	30.00	PASS
Band66	10MHz	QPSK	132622	25RB#0	20.84	19.64	30.00	PASS
Band66	10MHz	QPSK	132622	25RB#12	20.82	19.62	30.00	PASS
Band66	10MHz	QPSK	132622	25RB#25	20.75	19.55	30.00	PASS
Band66	10MHz	QPSK	132622	50RB#0	20.84	19.64	30.00	PASS
Band66	10MHz	16QAM	132022	1RB#0	20.98	19.78	30.00	PASS
Band66	10MHz	16QAM	132022	1RB#24	20.44	19.24	30.00	PASS
Band66	10MHz	16QAM	132022	1RB#49	19.68	18.48	30.00	PASS
Band66	10MHz	16QAM	132022	25RB#0	19.88	18.68	30.00	PASS
Band66	10MHz	16QAM	132022	25RB#12	19.78	18.58	30.00	PASS
Band66	10MHz	16QAM	132022	25RB#25	19.63	18.43	30.00	PASS
Band66	10MHz	16QAM	132022	50RB#0	19.61	18.41	30.00	PASS
Band66	10MHz	16QAM	132322	1RB#0	21.30	20.10	30.00	PASS
Band66	10MHz	16QAM	132322	1RB#24	20.24	19.04	30.00	PASS
Band66	10MHz	16QAM	132322	1RB#49	20.29	19.09	30.00	PASS
Band66	10MHz	16QAM	132322	25RB#0	20.01	18.81	30.00	PASS
Band66	10MHz	16QAM	132322	25RB#12	19.76	18.56	30.00	PASS
Band66	10MHz	16QAM	132322	25RB#25	19.50	18.30	30.00	PASS
Band66	10MHz	16QAM	132322	50RB#0	19.52	18.32	30.00	PASS
Band66	10MHz	16QAM	132622	1RB#0	20.44	19.24	30.00	PASS
Band66	10MHz	16QAM	132622	1RB#24	20.87	19.67	30.00	PASS
Band66	10MHz	16QAM	132622	1RB#49	20.18	18.98	30.00	PASS
Band66	10MHz	16QAM	132622	25RB#0	19.93	18.73	30.00	PASS
Band66	10MHz	16QAM	132622	25RB#12	19.92	18.72	30.00	PASS
Band66	10MHz	16QAM	132622	25RB#25	19.66	18.46	30.00	PASS
Band66	10MHz	16QAM	132622	50RB#0	19.71	18.51	30.00	PASS
Band66	15MHz	QPSK	132047	1RB#0	21.62	20.42	30.00	PASS

Band66	15MHz	QPSK	132047	1RB#38	21.49	20.29	30.00	PASS
Band66	15MHz	QPSK	132047	1RB#74	21.64	20.44	30.00	PASS
Band66	15MHz	QPSK	132047	36RB#0	20.79	19.59	30.00	PASS
Band66	15MHz	QPSK	132047	36RB#18	20.78	19.58	30.00	PASS
Band66	15MHz	QPSK	132047	36RB#39	20.66	19.46	30.00	PASS
Band66	15MHz	QPSK	132047	75RB#0	20.79	19.59	30.00	PASS
Band66	15MHz	QPSK	132322	1RB#0	21.62	20.42	30.00	PASS
Band66	15MHz	QPSK	132322	1RB#38	21.59	20.39	30.00	PASS
Band66	15MHz	QPSK	132322	1RB#74	21.63	20.43	30.00	PASS
Band66	15MHz	QPSK	132322	36RB#0	20.75	19.55	30.00	PASS
Band66	15MHz	QPSK	132322	36RB#18	20.56	19.36	30.00	PASS
Band66	15MHz	QPSK	132322	36RB#39	20.60	19.40	30.00	PASS
Band66	15MHz	QPSK	132322	75RB#0	20.74	19.54	30.00	PASS
Band66	15MHz	QPSK	132597	1RB#0	21.57	20.37	30.00	PASS
Band66	15MHz	QPSK	132597	1RB#38	21.61	20.41	30.00	PASS
Band66	15MHz	QPSK	132597	1RB#74	21.57	20.37	30.00	PASS
Band66	15MHz	QPSK	132597	36RB#0	20.71	19.51	30.00	PASS
Band66	15MHz	QPSK	132597	36RB#18	20.74	19.54	30.00	PASS
Band66	15MHz	QPSK	132597	36RB#39	20.73	19.53	30.00	PASS
Band66	15MHz	QPSK	132597	75RB#0	20.68	19.48	30.00	PASS
Band66	15MHz	16QAM	132047	1RB#0	20.56	19.36	30.00	PASS
Band66	15MHz	16QAM	132047	1RB#38	20.33	19.13	30.00	PASS
Band66	15MHz	16QAM	132047	1RB#74	20.38	19.18	30.00	PASS
Band66	15MHz	16QAM	132047	36RB#0	19.77	18.57	30.00	PASS
Band66	15MHz	16QAM	132047	36RB#18	19.73	18.53	30.00	PASS
Band66	15MHz	16QAM	132047	36RB#39	19.58	18.38	30.00	PASS
Band66	15MHz	16QAM	132047	75RB#0	19.66	18.46	30.00	PASS
Band66	15MHz	16QAM	132322	1RB#0	20.84	19.64	30.00	PASS
Band66	15MHz	16QAM	132322	1RB#38	20.16	18.96	30.00	PASS
Band66	15MHz	16QAM	132322	1RB#74	20.18	18.98	30.00	PASS
Band66	15MHz	16QAM	132322	36RB#0	19.72	18.52	30.00	PASS
Band66	15MHz	16QAM	132322	36RB#18	19.32	18.12	30.00	PASS
Band66	15MHz	16QAM	132322	36RB#39	19.42	18.22	30.00	PASS
Band66	15MHz	16QAM	132322	75RB#0	19.56	18.36	30.00	PASS
Band66	15MHz	16QAM	132597	1RB#0	20.50	19.30	30.00	PASS
Band66	15MHz	16QAM	132597	1RB#38	20.20	19.00	30.00	PASS
Band66	15MHz	16QAM	132597	1RB#74	20.04	18.84	30.00	PASS
Band66	15MHz	16QAM	132597	36RB#0	19.63	18.43	30.00	PASS
Band66	15MHz	16QAM	132597	36RB#18	19.73	18.53	30.00	PASS
Band66	15MHz	16QAM	132597	36RB#39	19.70	18.50	30.00	PASS
Band66	15MHz	16QAM	132597	75RB#0	19.83	18.63	30.00	PASS
Band66	20MHz	QPSK	132072	1RB#0	21.89	20.69	30.00	PASS
Band66	20MHz	QPSK	132072	1RB#49	21.47	20.27	30.00	PASS
Band66	20MHz	QPSK	132072	1RB#99	21.46	20.26	30.00	PASS

Band66	20MHz	QPSK	132072	50RB#0	20.73	19.53	30.00	PASS
Band66	20MHz	QPSK	132072	50RB#25	20.61	19.41	30.00	PASS
Band66	20MHz	QPSK	132072	50RB#50	20.63	19.43	30.00	PASS
Band66	20MHz	QPSK	132072	100RB#0	20.69	19.49	30.00	PASS
Band66	20MHz	QPSK	132322	1RB#0	21.90	20.70	30.00	PASS
Band66	20MHz	QPSK	132322	1RB#49	21.79	20.59	30.00	PASS
Band66	20MHz	QPSK	132322	1RB#99	21.46	20.26	30.00	PASS
Band66	20MHz	QPSK	132322	50RB#0	20.77	19.57	30.00	PASS
Band66	20MHz	QPSK	132322	50RB#25	20.62	19.42	30.00	PASS
Band66	20MHz	QPSK	132322	50RB#50	20.50	19.30	30.00	PASS
Band66	20MHz	QPSK	132322	100RB#0	20.77	19.57	30.00	PASS
Band66	20MHz	QPSK	132572	1RB#0	21.76	20.56	30.00	PASS
Band66	20MHz	QPSK	132572	1RB#49	21.74	20.54	30.00	PASS
Band66	20MHz	QPSK	132572	1RB#99	21.55	20.35	30.00	PASS
Band66	20MHz	QPSK	132572	50RB#0	20.71	19.51	30.00	PASS
Band66	20MHz	QPSK	132572	50RB#25	20.70	19.50	30.00	PASS
Band66	20MHz	QPSK	132572	50RB#50	20.68	19.48	30.00	PASS
Band66	20MHz	QPSK	132572	100RB#0	20.76	19.56	30.00	PASS
Band66	20MHz	16QAM	132072	1RB#0	20.39	19.19	30.00	PASS
Band66	20MHz	16QAM	132072	1RB#49	20.59	19.39	30.00	PASS
Band66	20MHz	16QAM	132072	1RB#99	20.45	19.25	30.00	PASS
Band66	20MHz	16QAM	132072	50RB#0	19.71	18.51	30.00	PASS
Band66	20MHz	16QAM	132072	50RB#25	19.57	18.37	30.00	PASS
Band66	20MHz	16QAM	132072	50RB#50	19.60	18.40	30.00	PASS
Band66	20MHz	16QAM	132072	100RB#0	19.68	18.48	30.00	PASS
Band66	20MHz	16QAM	132322	1RB#0	20.43	19.23	30.00	PASS
Band66	20MHz	16QAM	132322	1RB#49	20.06	18.86	30.00	PASS
Band66	20MHz	16QAM	132322	1RB#99	20.12	18.92	30.00	PASS
Band66	20MHz	16QAM	132322	50RB#0	19.94	18.74	30.00	PASS
Band66	20MHz	16QAM	132322	50RB#25	19.56	18.36	30.00	PASS
Band66	20MHz	16QAM	132322	50RB#50	19.51	18.31	30.00	PASS
Band66	20MHz	16QAM	132322	100RB#0	19.67	18.47	30.00	PASS
Band66	20MHz	16QAM	132572	1RB#0	20.60	19.40	30.00	PASS
Band66	20MHz	16QAM	132572	1RB#49	20.96	19.76	30.00	PASS
Band66	20MHz	16QAM	132572	1RB#99	20.77	19.57	30.00	PASS
Band66	20MHz	16QAM	132572	50RB#0	19.62	18.42	30.00	PASS
Band66	20MHz	16QAM	132572	50RB#25	19.72	18.52	30.00	PASS
Band66	20MHz	16QAM	132572	50RB#50	19.86	18.66	30.00	PASS
Band66	20MHz	16QAM	132572	100RB#0	19.84	18.64	30.00	PASS

Remark:

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

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

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

4. Peak-to-Average Ratio(CCDF)

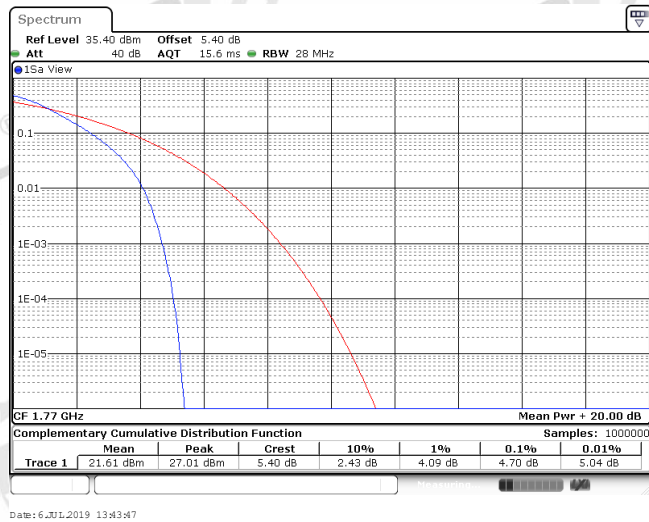
4.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band66	20MHz	QPSK	132072	100RB#0	5.01	13	PASS
Band66	20MHz	QPSK	132322	100RB#0	4.84	13	PASS
Band66	20MHz	QPSK	132572	100RB#0	4.70	13	PASS
Band66	20MHz	16QAM	132072	100RB#0	5.86	13	PASS
Band66	20MHz	16QAM	132322	100RB#0	5.74	13	PASS
Band66	20MHz	16QAM	132572	100RB#0	5.54	13	PASS

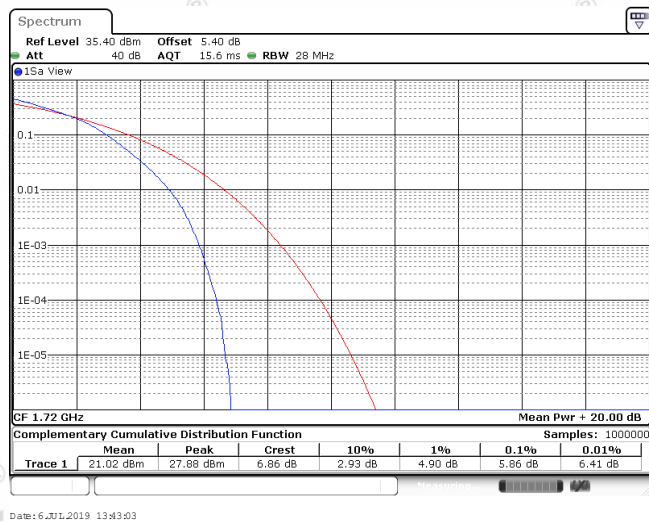
4.2. Test Plots



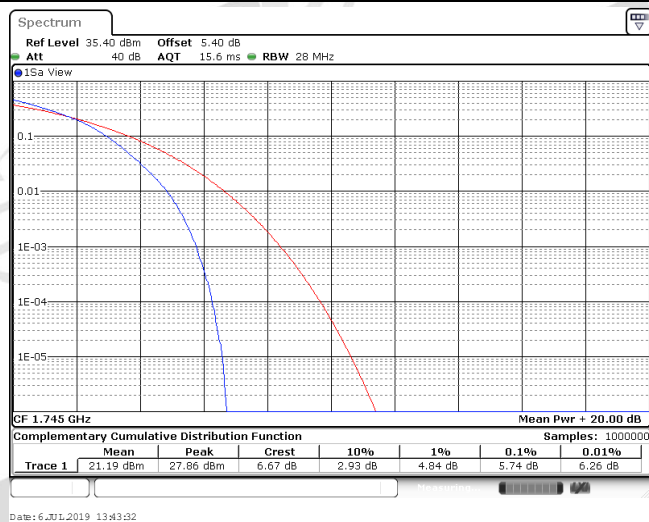
Band66_20MHz_QPSK_132572_100RB#0



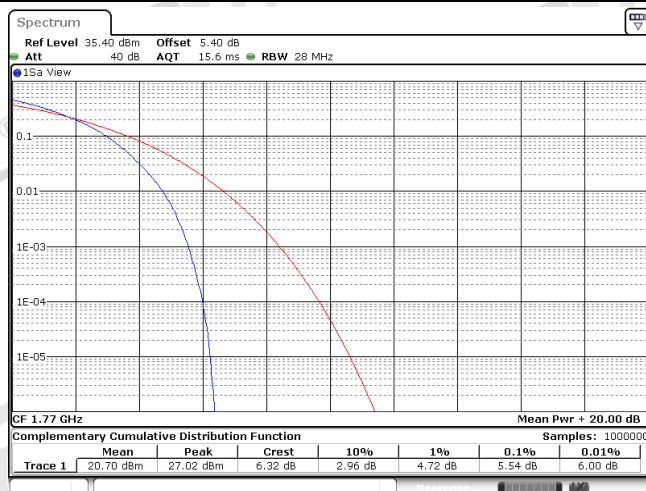
Band66_20MHz_16QAM_132072_100RB#0



Band66_20MHz_16QAM_132322_100RB#0



Band66_20MHz_16QAM_132572_100RB#0

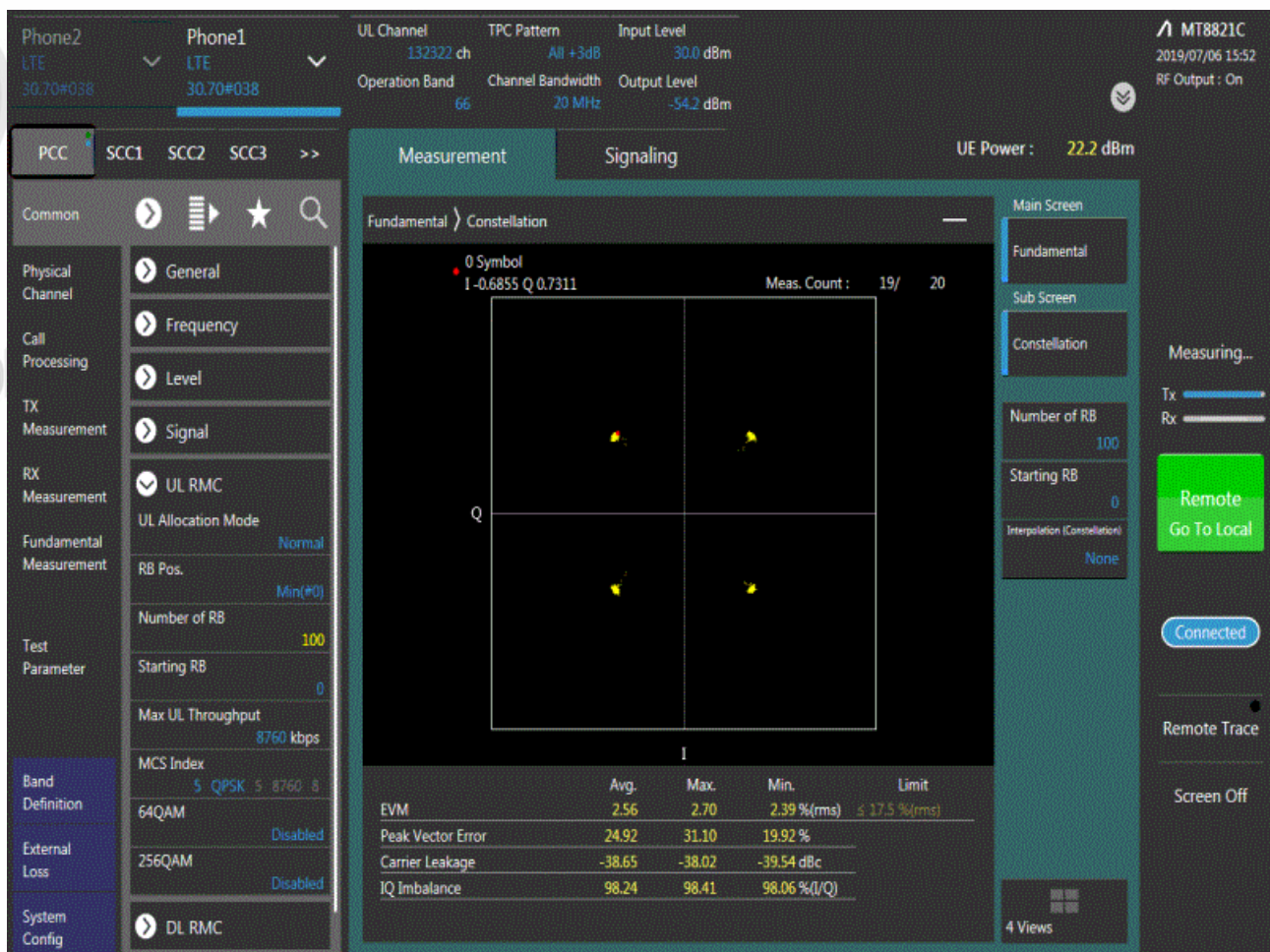


5. Modulation Characteristics

5.1. Test BAND = LTE Band 66

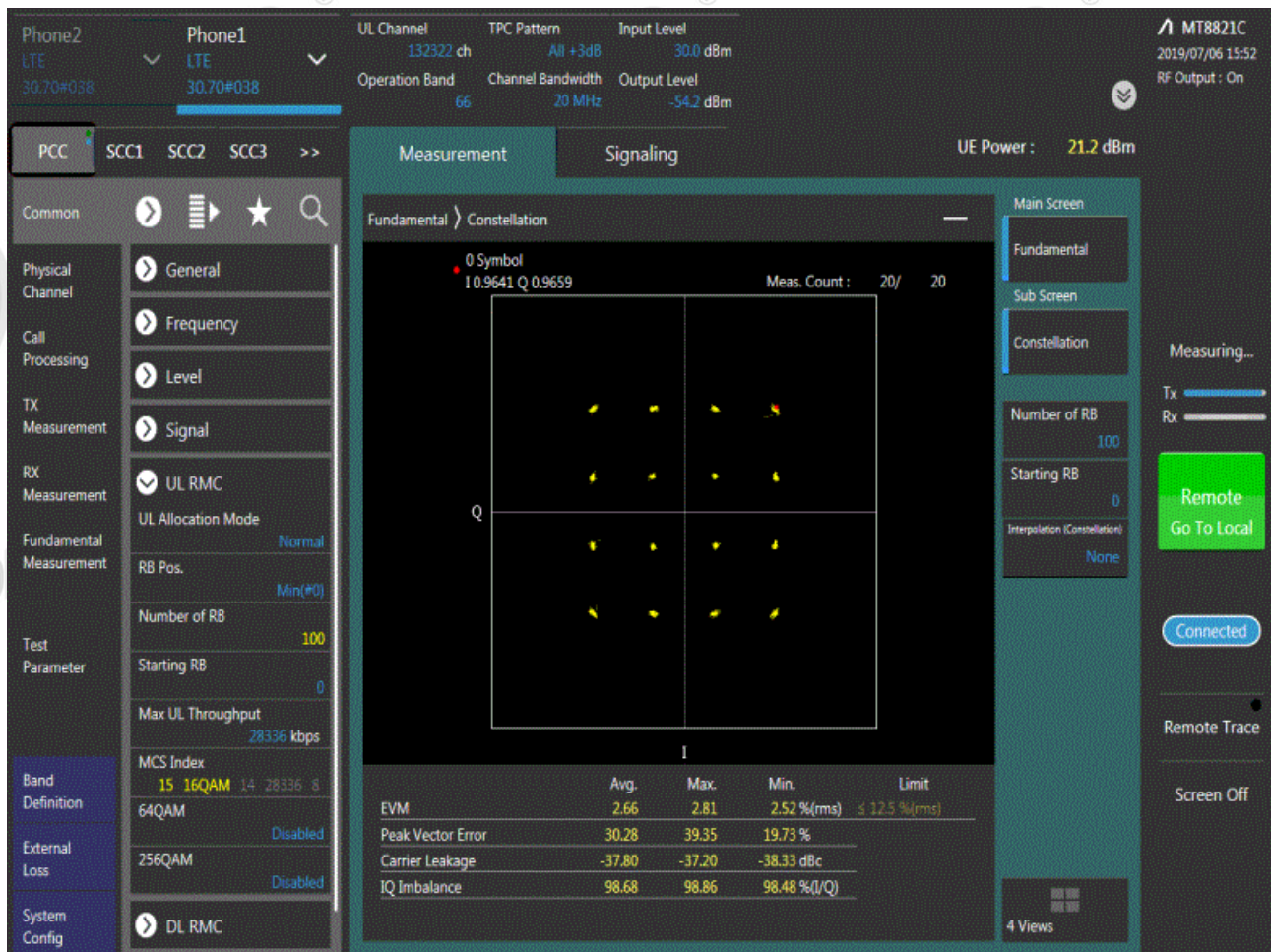
5.2. Test Mode = LTE /TM1 20MHz

5.2.1. Test Channel = MCH



5.3. Test Mode = LTE /TM2 20MHz

5.3.1. Test Channel = MCH



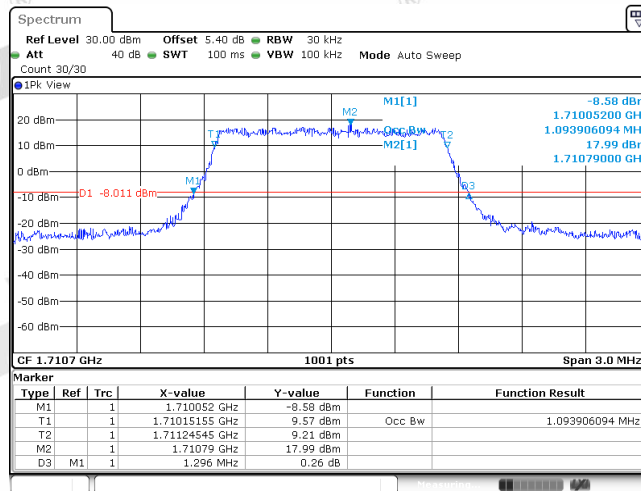
6. 26dB Bandwidth and Occupied Bandwidth

6.1. Test Result

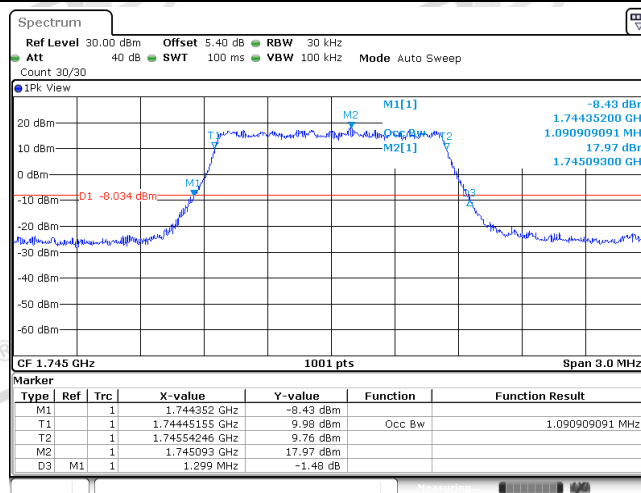
BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band66	1.4MHz	QPSK	131979	6RB#0	1.094	1.296	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	1.091	1.299	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	1.097	1.311	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	1.091	1.284	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	1.091	1.278	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	1.091	1.284	PASS
Band66	3MHz	QPSK	131987	15RB#0	2.697	3.000	PASS
Band66	3MHz	QPSK	132322	15RB#0	2.691	2.976	PASS
Band66	3MHz	QPSK	132657	15RB#0	2.703	3.000	PASS
Band66	3MHz	16QAM	131987	15RB#0	2.685	2.970	PASS
Band66	3MHz	16QAM	132322	15RB#0	2.685	2.964	PASS
Band66	3MHz	16QAM	132657	15RB#0	2.691	2.982	PASS
Band66	5MHz	QPSK	131997	25RB#0	4.476	4.930	PASS
Band66	5MHz	QPSK	132322	25RB#0	4.476	4.930	PASS
Band66	5MHz	QPSK	132647	25RB#0	4.476	4.940	PASS
Band66	5MHz	16QAM	131997	25RB#0	4.496	4.970	PASS
Band66	5MHz	16QAM	132322	25RB#0	4.486	4.980	PASS
Band66	5MHz	16QAM	132647	25RB#0	4.496	4.990	PASS
Band66	10MHz	QPSK	132022	50RB#0	8.911	9.720	PASS
Band66	10MHz	QPSK	132322	50RB#0	8.931	9.700	PASS
Band66	10MHz	QPSK	132622	50RB#0	8.891	9.620	PASS
Band66	10MHz	16QAM	132022	50RB#0	8.911	9.700	PASS
Band66	10MHz	16QAM	132322	50RB#0	8.911	9.740	PASS
Band66	10MHz	16QAM	132622	50RB#0	8.911	9.700	PASS
Band66	15MHz	QPSK	132047	75RB#0	13.457	14.670	PASS
Band66	15MHz	QPSK	132322	75RB#0	13.397	14.730	PASS
Band66	15MHz	QPSK	132597	75RB#0	13.397	14.670	PASS
Band66	15MHz	16QAM	132047	75RB#0	13.427	14.550	PASS
Band66	15MHz	16QAM	132322	75RB#0	13.427	14.670	PASS
Band66	15MHz	16QAM	132597	75RB#0	13.397	14.730	PASS
Band66	20MHz	QPSK	132072	100RB#0	17.822	19.440	PASS
Band66	20MHz	QPSK	132322	100RB#0	17.782	19.360	PASS
Band66	20MHz	QPSK	132572	100RB#0	17.822	19.360	PASS
Band66	20MHz	16QAM	132072	100RB#0	17.862	19.400	PASS
Band66	20MHz	16QAM	132322	100RB#0	17.822	19.320	PASS
Band66	20MHz	16QAM	132572	100RB#0	17.822	19.360	PASS

6.2. Test Plots

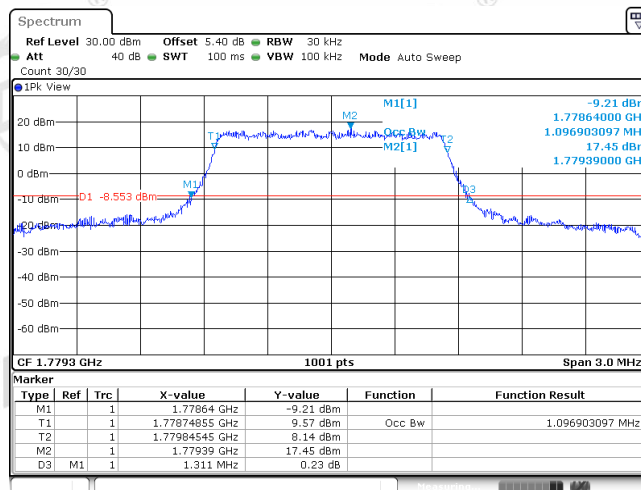
Band66_1.4MHz_QPSK_131979_6RB#0



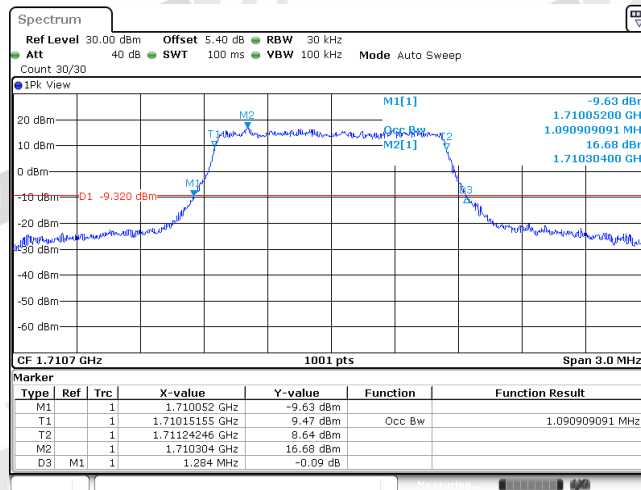
Band66_1.4MHz_QPSK_132322_6RB#0



Band66_1.4MHz_QPSK_132665_6RB#0

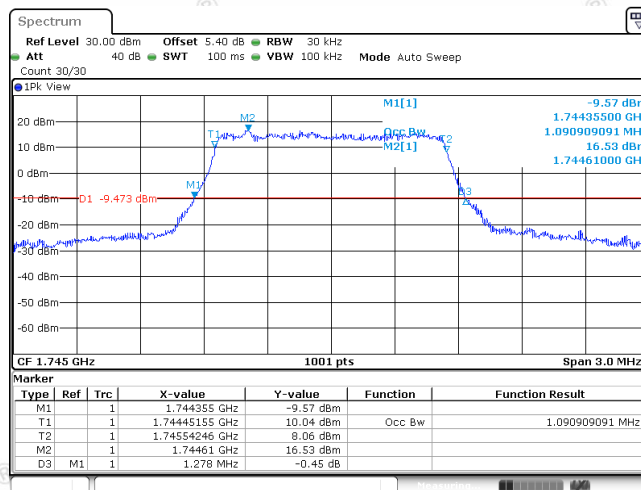


Band66_1.4MHz_16QAM_131979_6RB#0



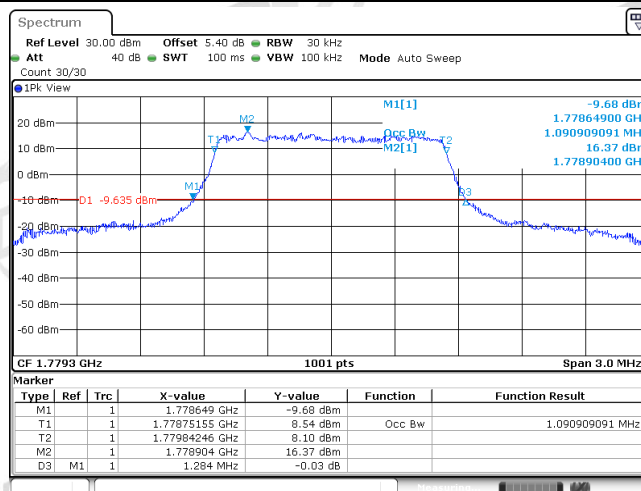
Date: 6 JUL 2019 13:09:12

Band66_1.4MHz_16QAM_132322_6RB#0



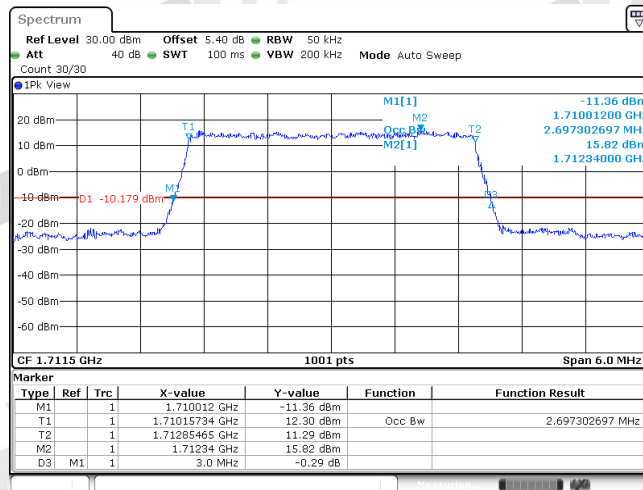
Date: 6 JUL 2019 13:09:44

Band66_1.4MHz_16QAM_132665_6RB#0



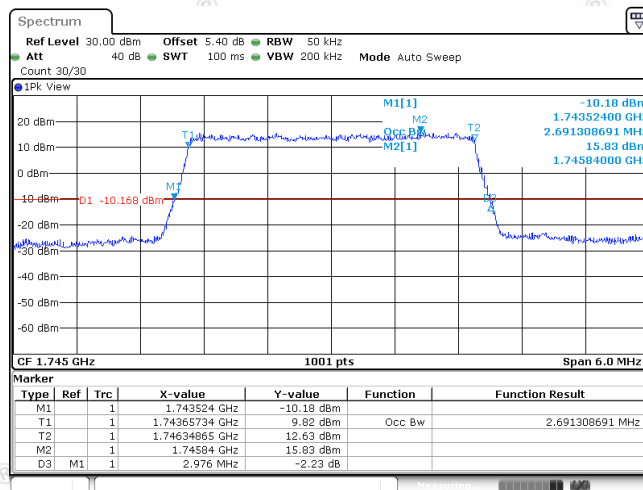
Date: 6 JUL 2019 13:10:16

Band66_3MHz_QPSK_131987_15RB#0



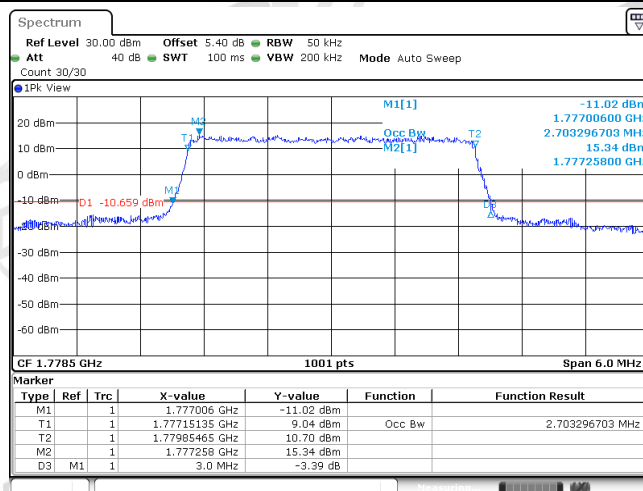
Date: 6 JUL 2019 13:00:36

Band66_3MHz_QPSK_132322_15RB#0



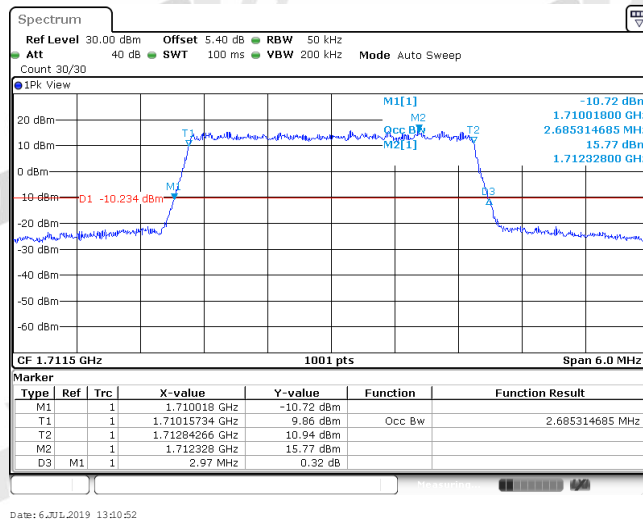
Date: 6 JUL 2019 13:11:08

Band66_3MHz_QPSK_132657_15RB#0

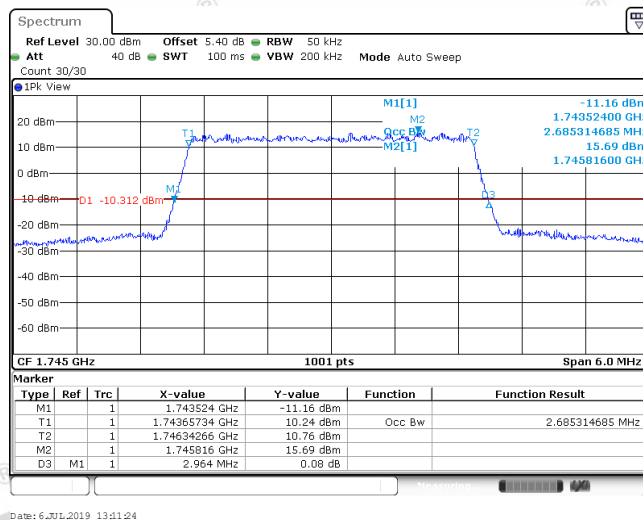


Date: 6 JUL 2019 13:11:40

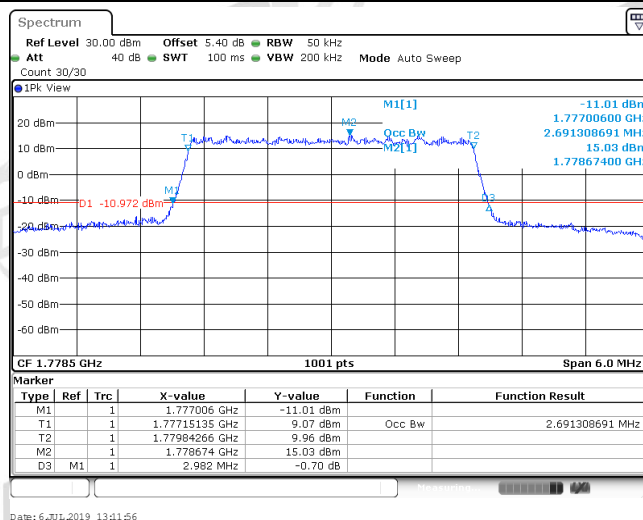
Band66_3MHz_16QAM_131987_15RB#0



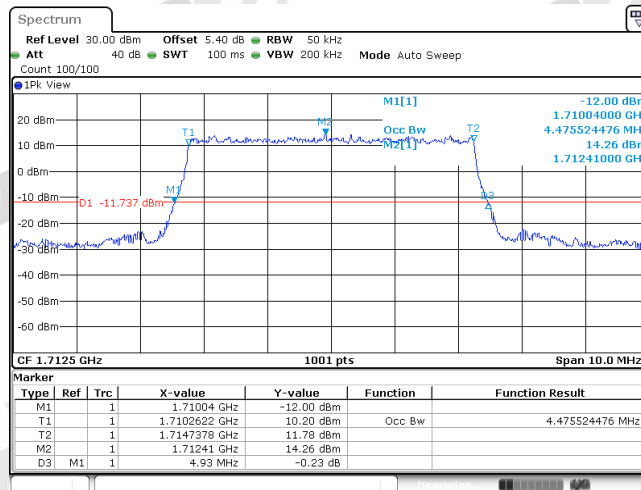
Band66_3MHz_16QAM_132322_15RB#0



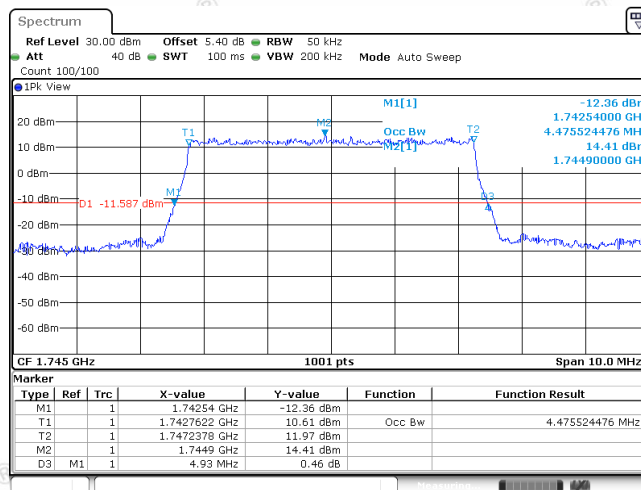
Band66_3MHz_16QAM_132657_15RB#0



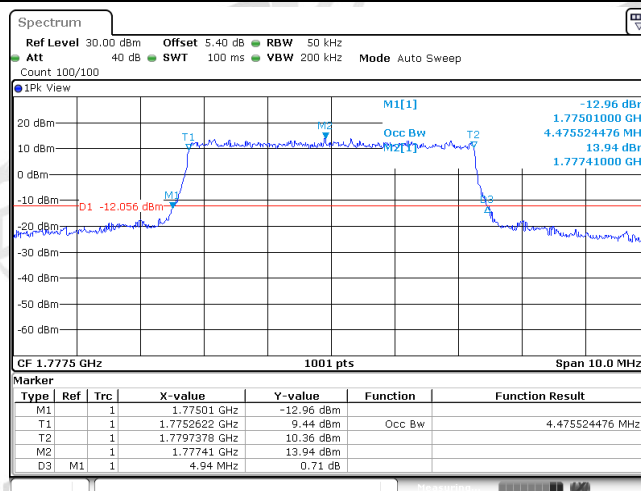
Band66_5MHz_QPSK_131997_25RB#0



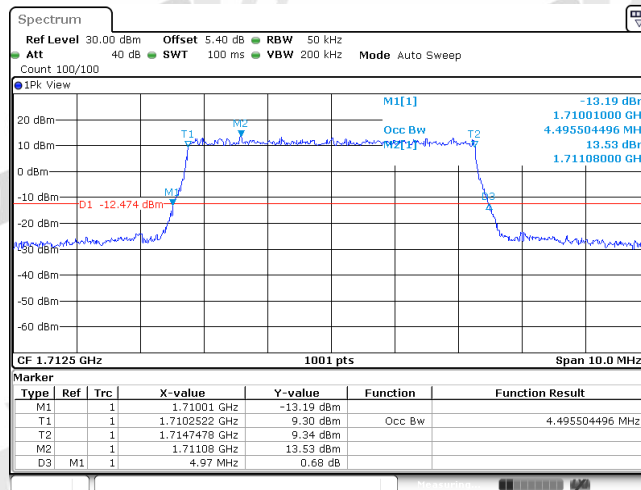
Band66_5MHz_QPSK_132322_25RB#0



Band66_5MHz_QPSK_132647_25RB#0

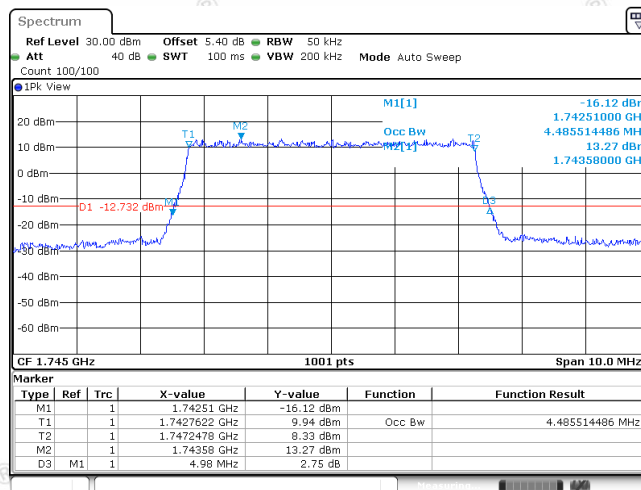


Band66_5MHz_16QAM_131997_25RB#0



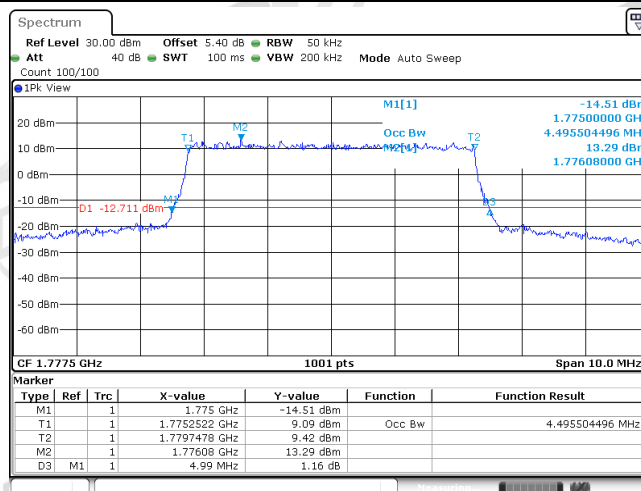
Date: 6 JUL 2019 13:12:46

Band66_5MHz_16QAM_132322_25RB#0



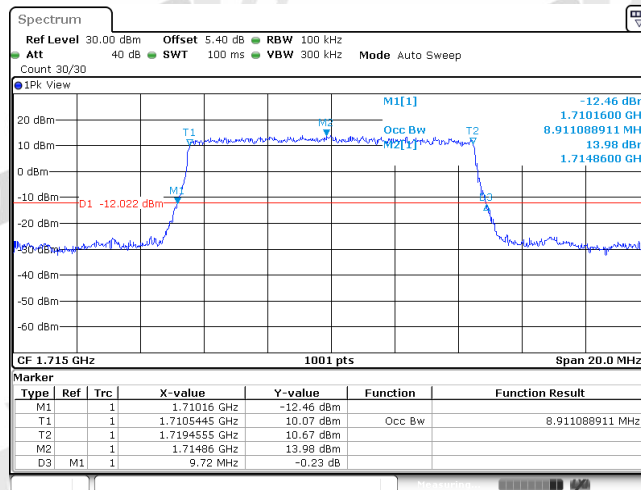
Date: 6 JUL 2019 13:13:32

Band66_5MHz_16QAM_132647_25RB#0



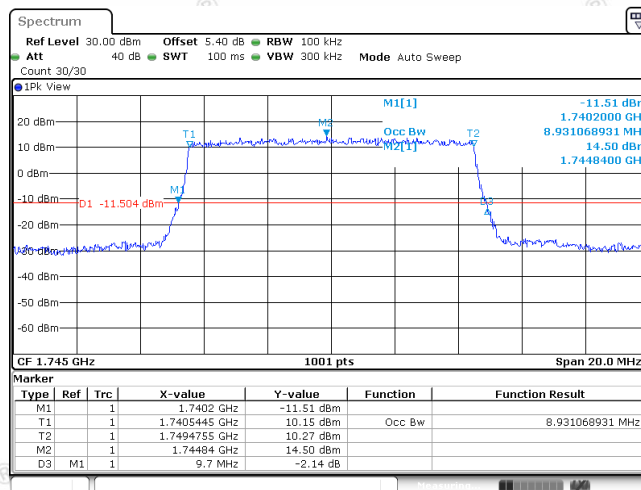
Date: 6 JUL 2019 13:14:18

Band66_10MHz_QPSK_132022_50RB#0



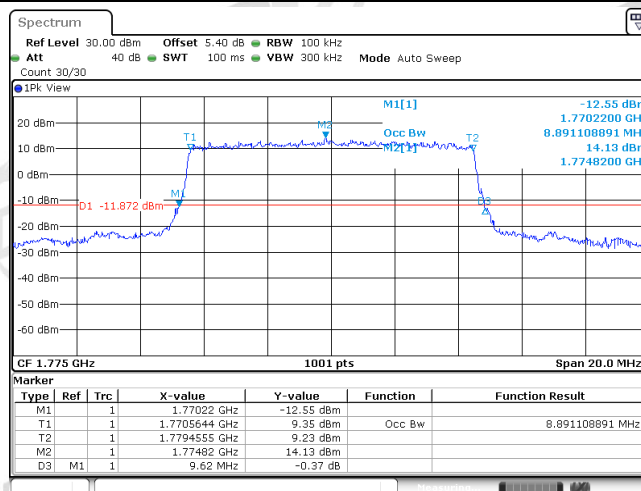
Date: 6 JUL 2019 13:14:39

Band66_10MHz_QPSK_132322_50RB#0



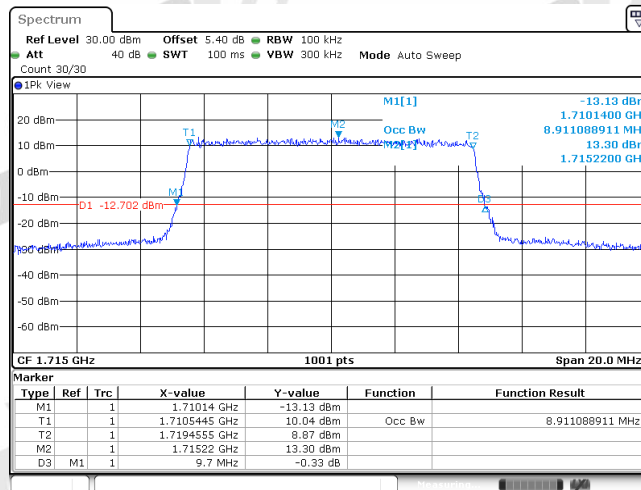
Date: 6 JUL 2019 13:15:10

Band66_10MHz_QPSK_132622_50RB#0



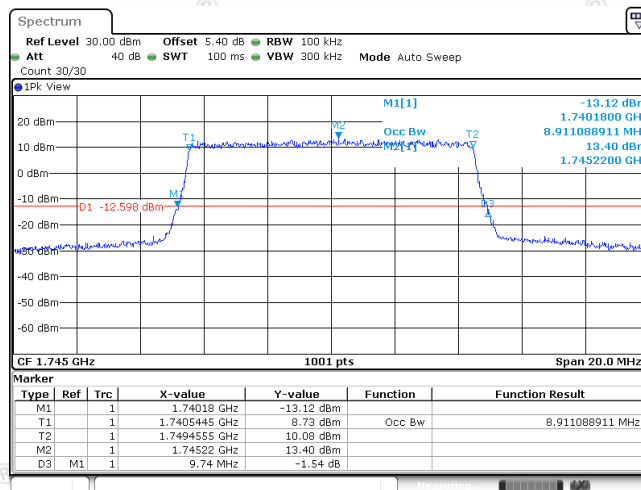
Date: 6 JUL 2019 13:15:42

Band66_10MHz_16QAM_132022_50RB#0



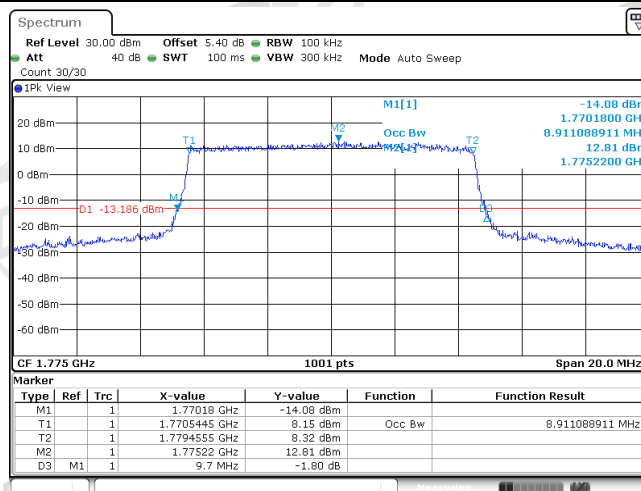
Date: 6 JUL 2019 13:14:54

Band66_10MHz_16QAM_132322_50RB#0



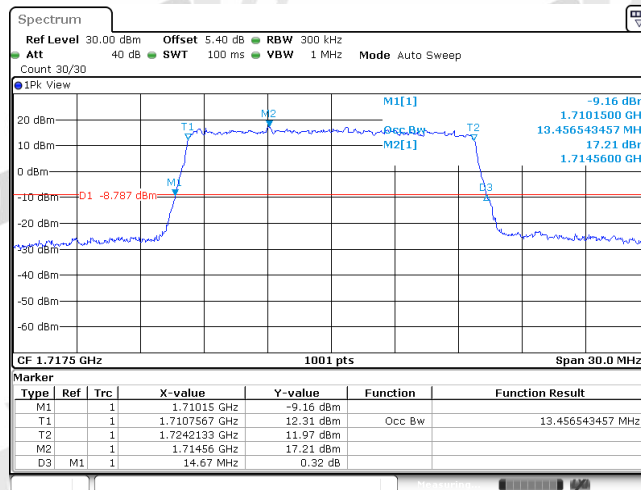
Date: 6 JUL 2019 13:15:26

Band66_10MHz_16QAM_132622_50RB#0



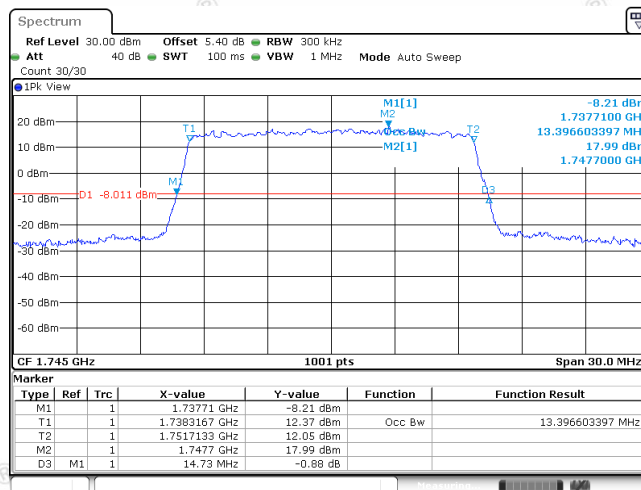
Date: 6 JUL 2019 13:15:58

Band66_15MHz_QPSK_132047_75RB#0



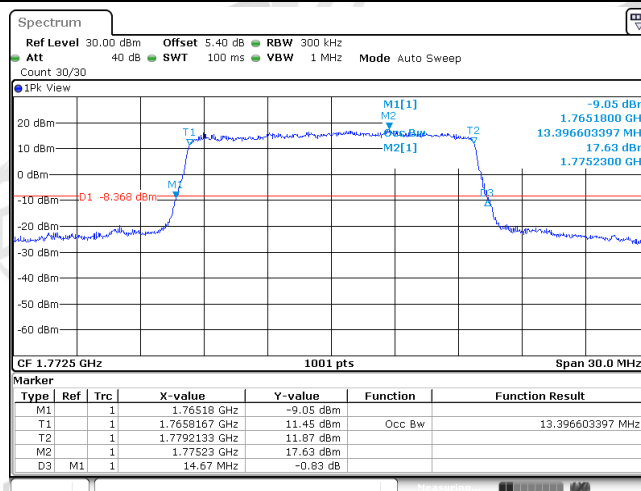
Date: 6 JUL 2019 13:16:19

Band66_15MHz_QPSK_132322_75RB#0



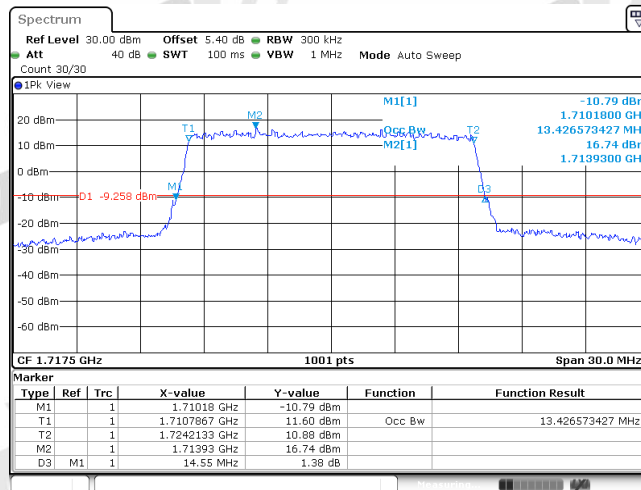
Date: 6 JUL 2019 13:16:50

Band66_15MHz_QPSK_132597_75RB#0



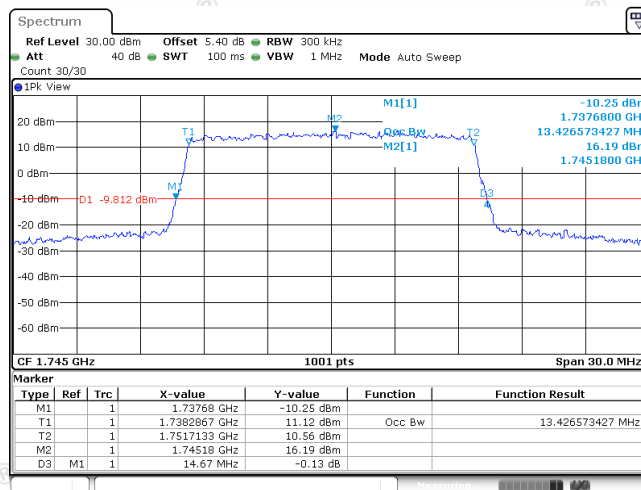
Date: 6 JUL 2019 13:17:22

Band66_15MHz_16QAM_132047_75RB#0



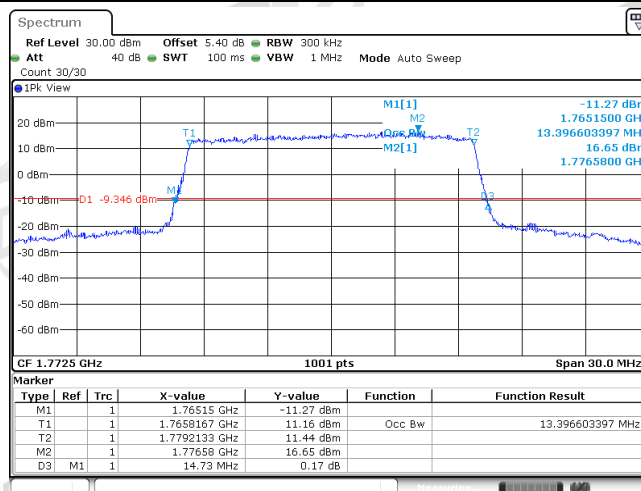
Date: 6 JUL 2019 13:16:34

Band66_15MHz_16QAM_132322_75RB#0



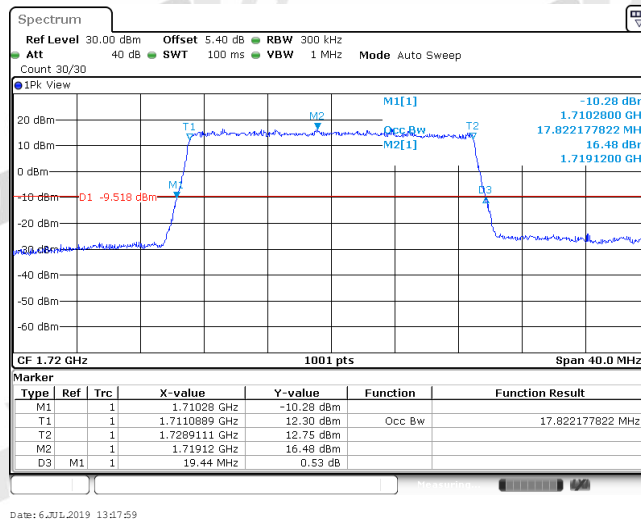
Date: 6 JUL 2019 13:17:06

Band66_15MHz_16QAM_132597_75RB#0

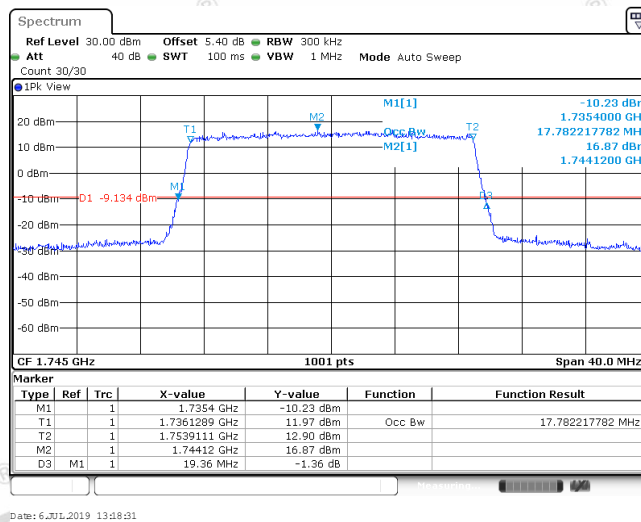


Date: 6 JUL 2019 13:17:38

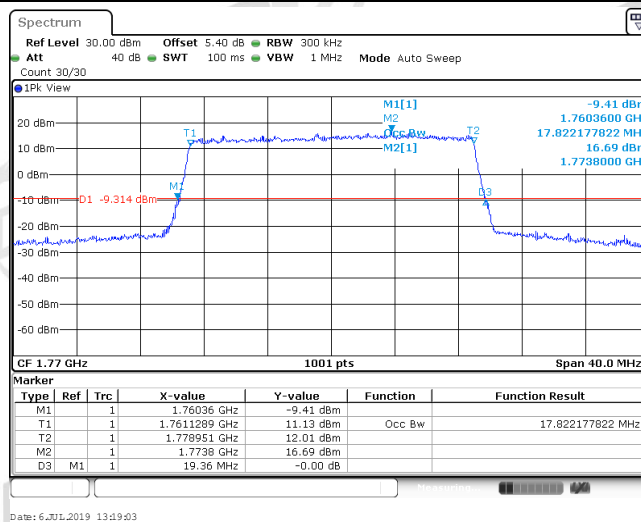
Band66_20MHz_QPSK_132072_100RB#0



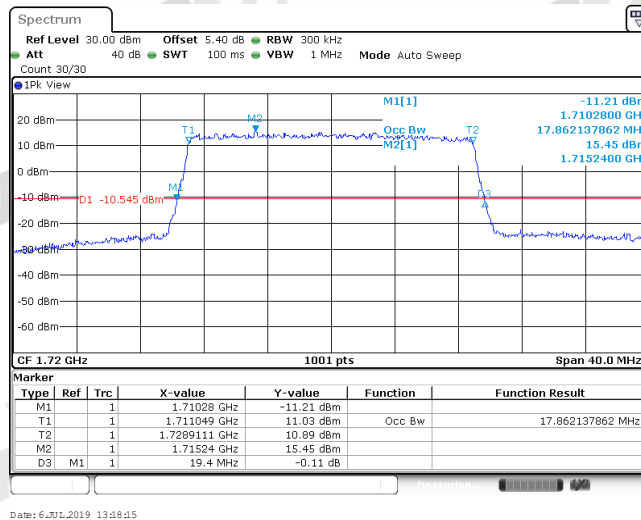
Band66_20MHz_QPSK_132322_100RB#0



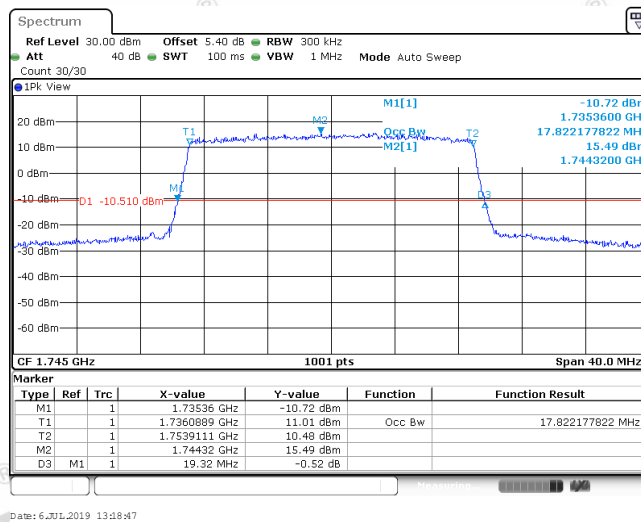
Band66_20MHz_QPSK_132572_100RB#0



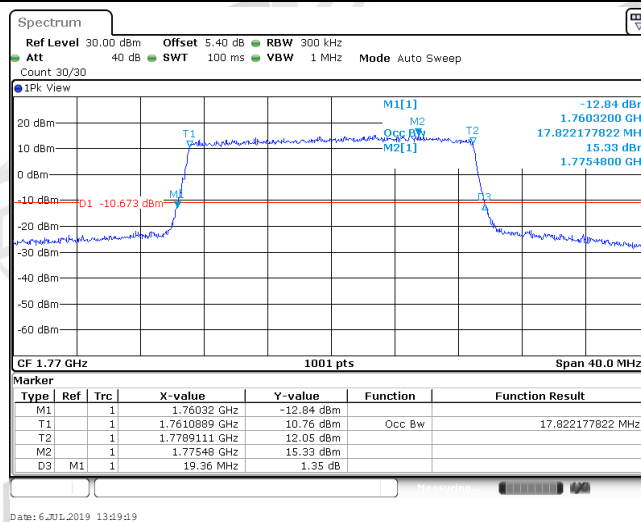
Band66_20MHz_16QAM_132072_100RB#0



Band66_20MHz_16QAM_132322_100RB#0



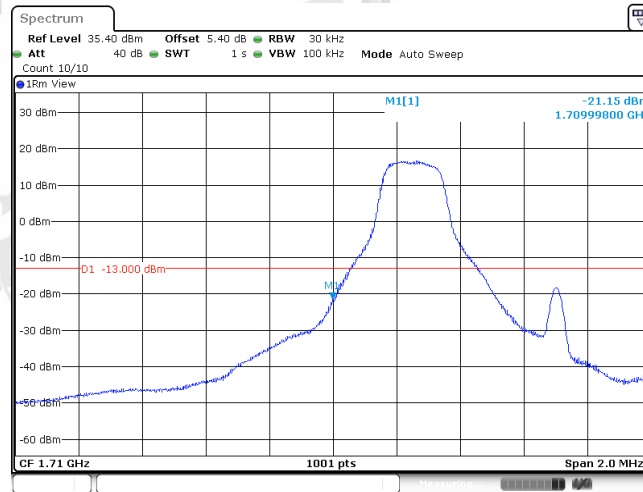
Band66_20MHz_16QAM_132572_100RB#0



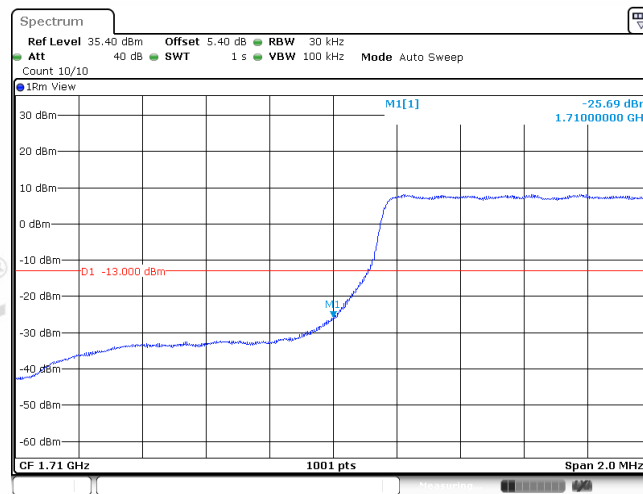
7. Band Edge Compliance

7.1. Test Plots

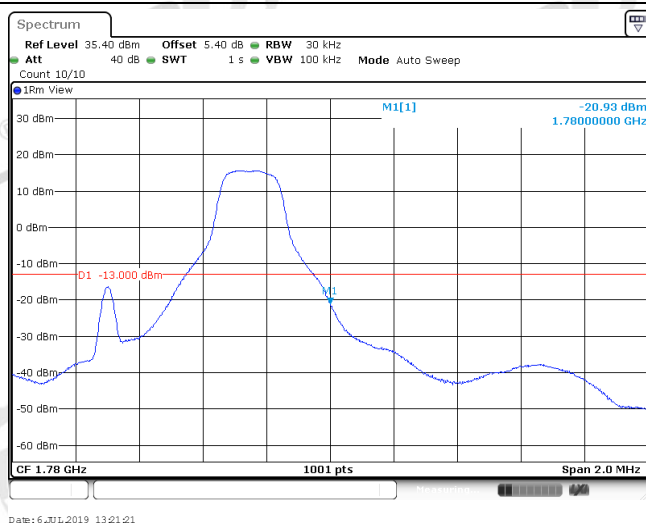
Band66_1.4MHz_QPSK_131979_1RB#0



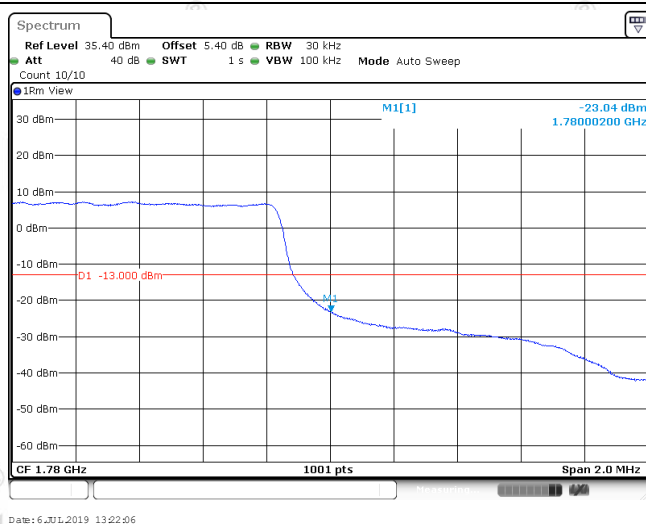
Band66_1.4MHz_QPSK_131979_6RB#0



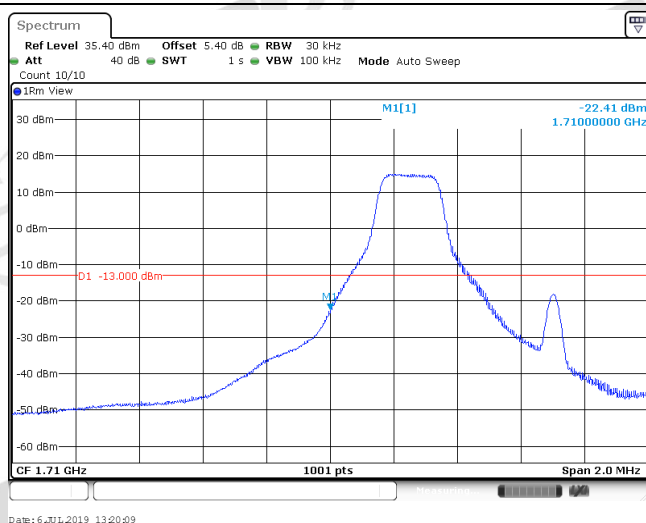
Band66_1.4MHz_QPSK_132665_1RB#5



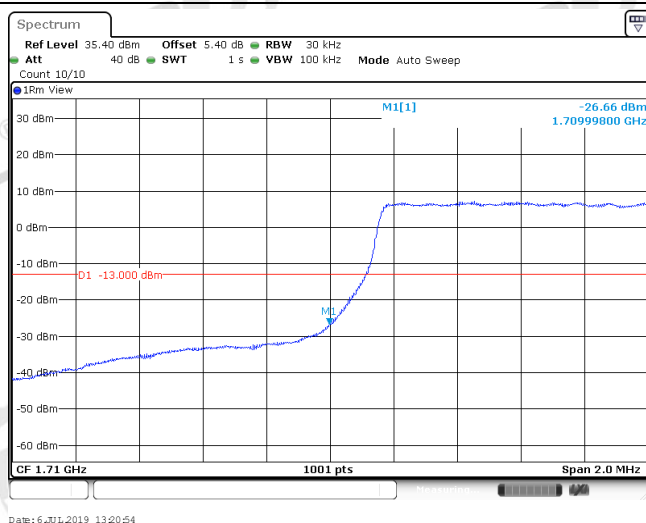
Band66_1.4MHz_QPSK_132665_6RB#0



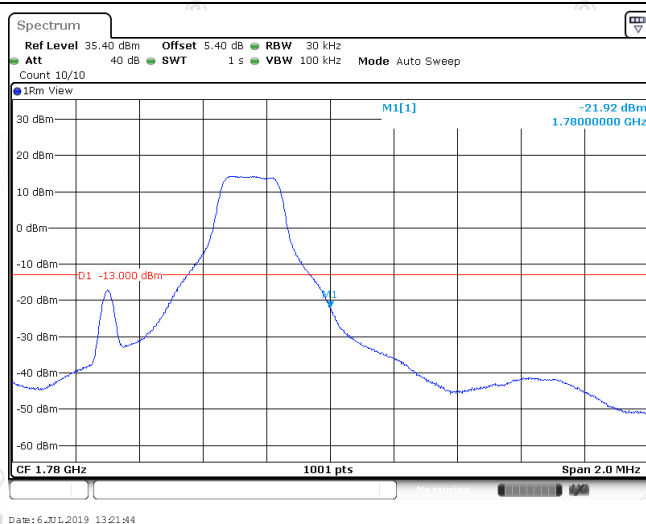
Band66_1.4MHz_16QAM_131979_1RB#0



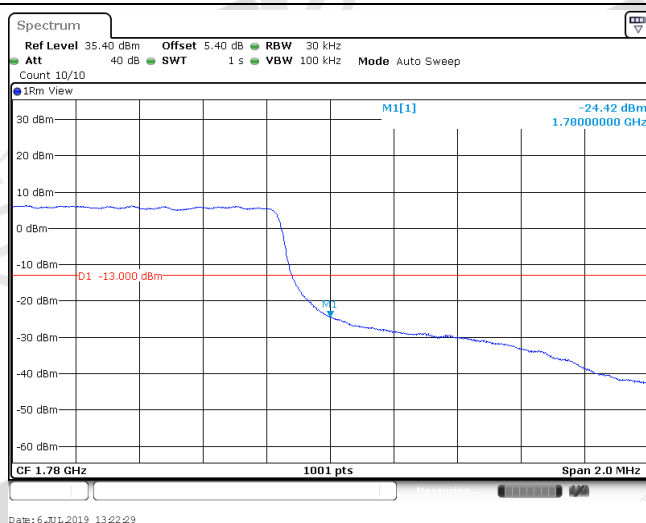
Band66_1.4MHz_16QAM_131979_6RB#0



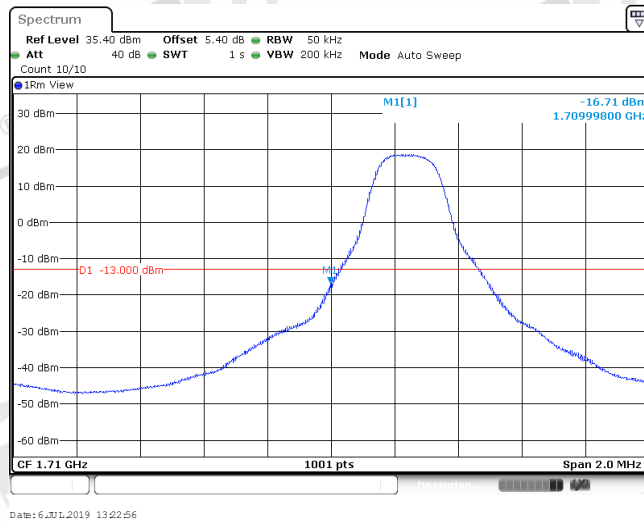
Band66_1.4MHz_16QAM_132665_1RB#5



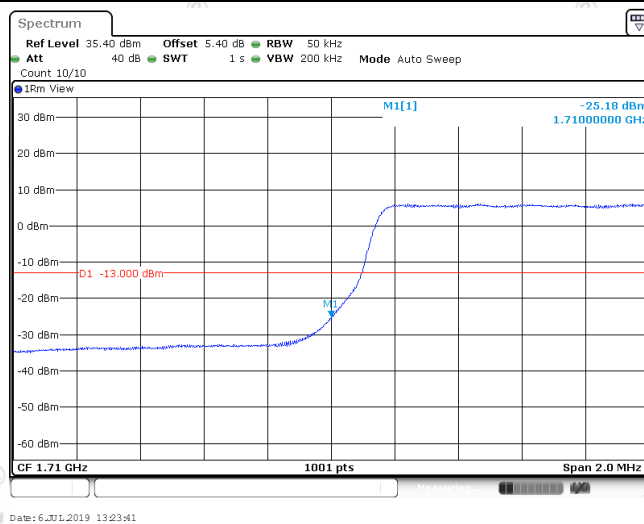
Band66_1.4MHz_16QAM_132665_6RB#0



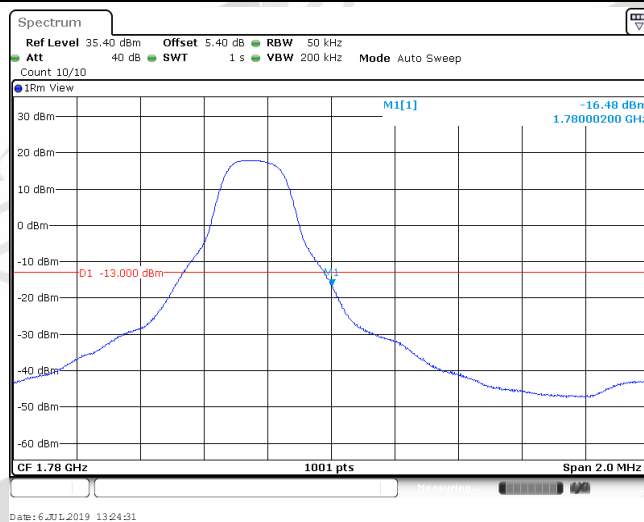
Band66_3MHz_QPSK_131987_1RB#0



Band66_3MHz_QPSK_131987_15RB#0



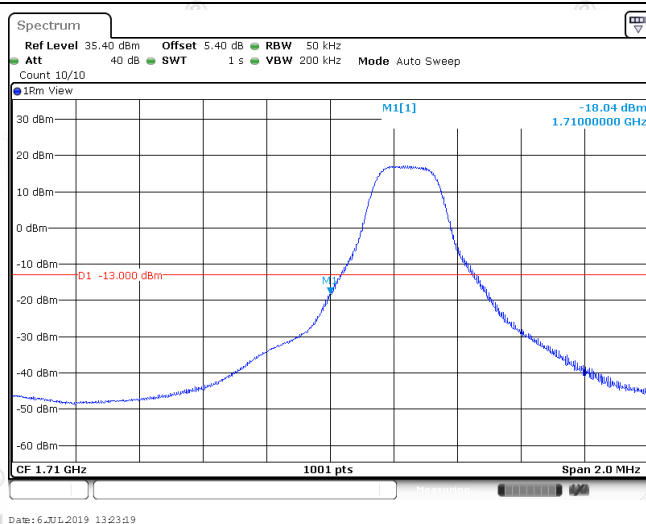
Band66_3MHz_QPSK_132657_1RB#14



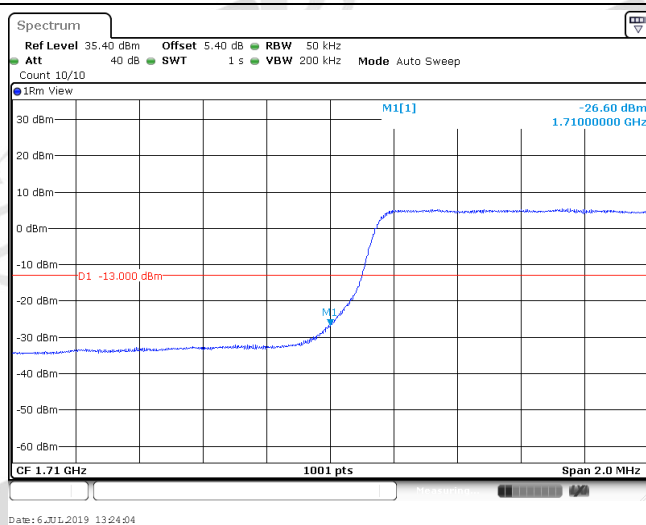
Band66_3MHz_QPSK_132657_15RB#0



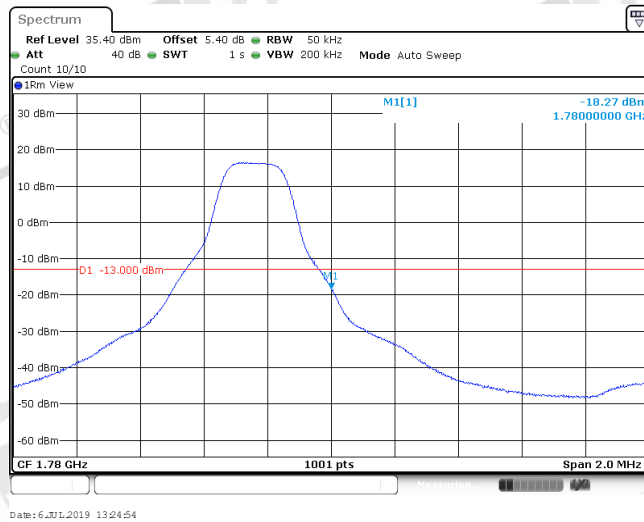
Band66_3MHz_16QAM_131987_1RB#0



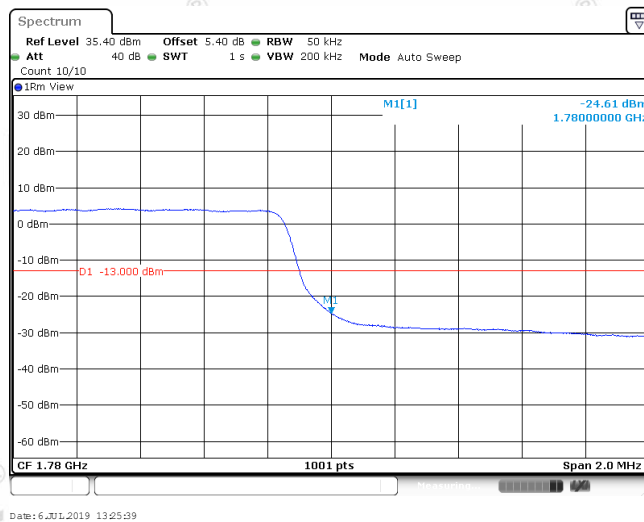
Band66_3MHz_16QAM_131987_15RB#0



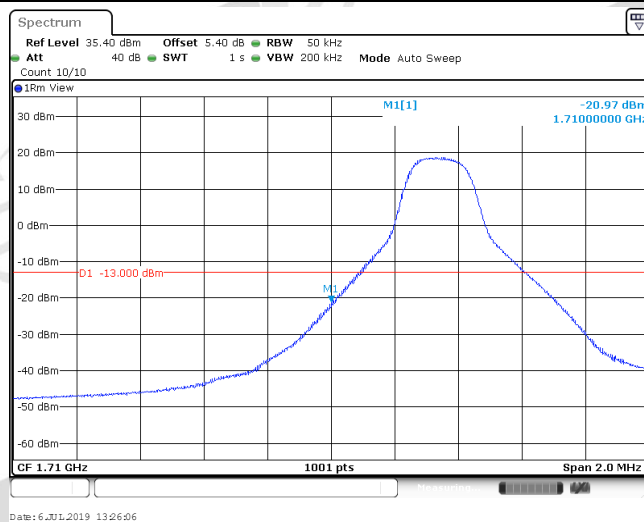
Band66_3MHz_16QAM_132657_1RB#14



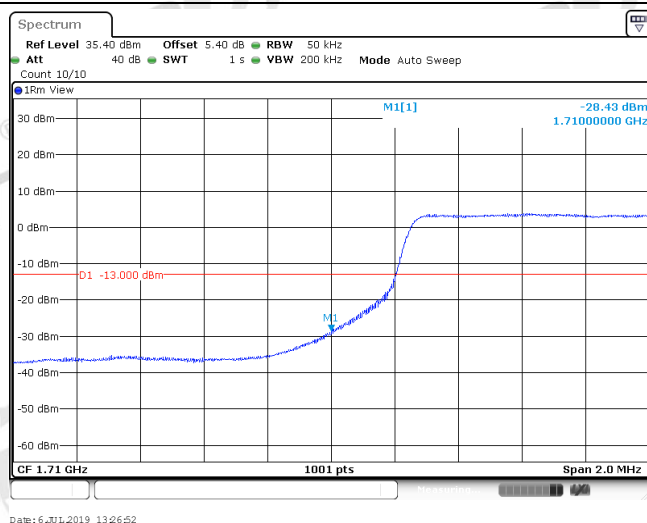
Band66_3MHz_16QAM_132657_15RB#0



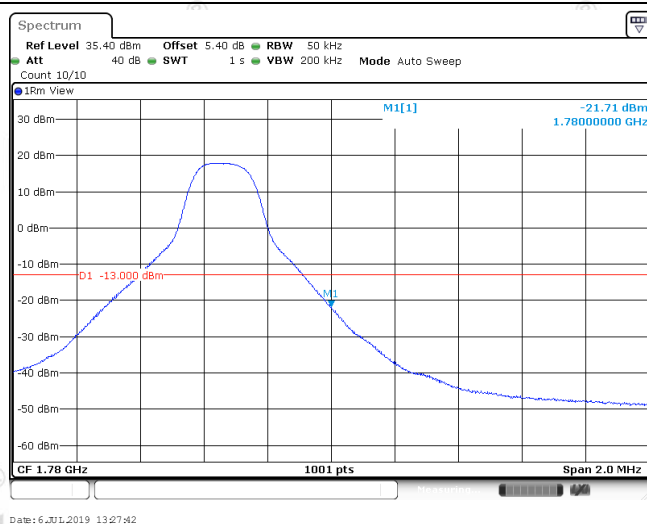
Band66_5MHz_QPSK_131997_1RB#0



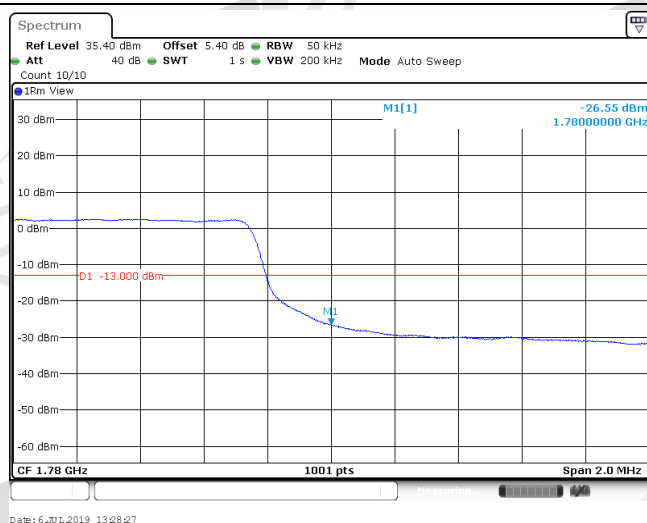
Band66_5MHz_QPSK_131997_25RB#0



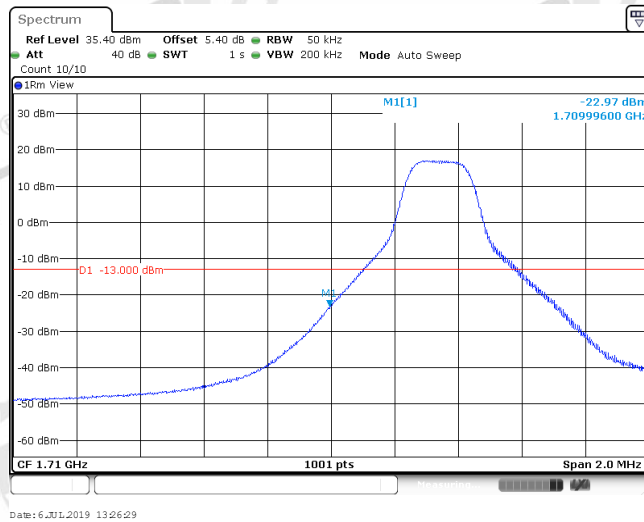
Band66_5MHz_QPSK_132647_1RB#24



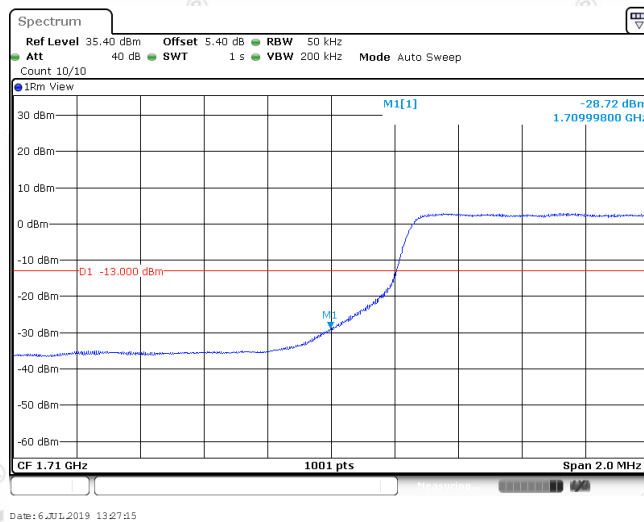
Band66_5MHz_QPSK_132647_25RB#0



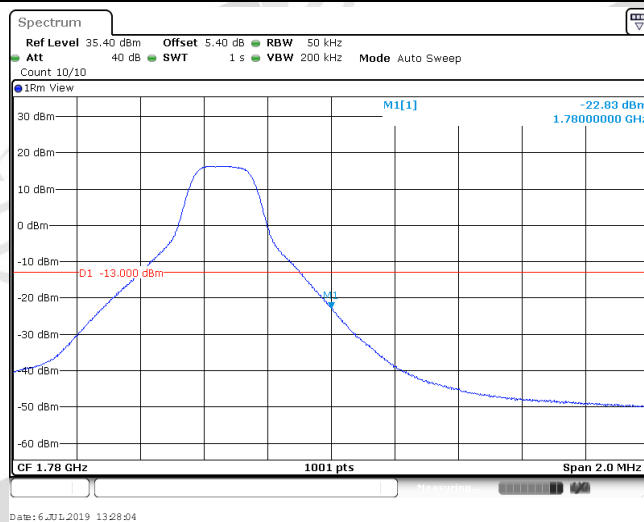
Band66_5MHz_16QAM_131997_1RB#0



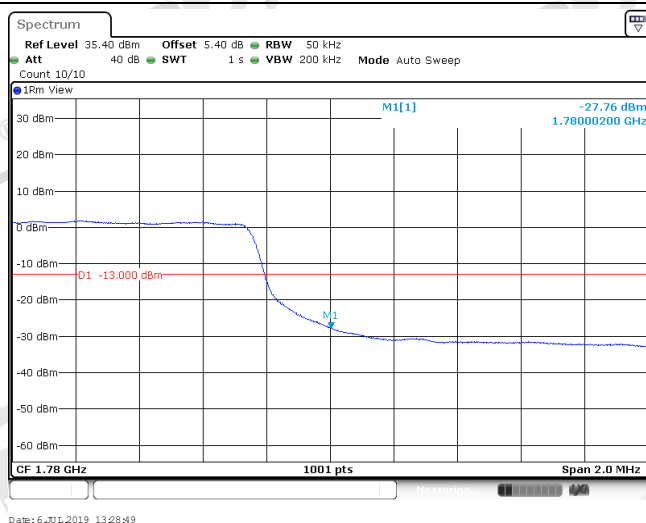
Band66_5MHz_16QAM_131997_25RB#0



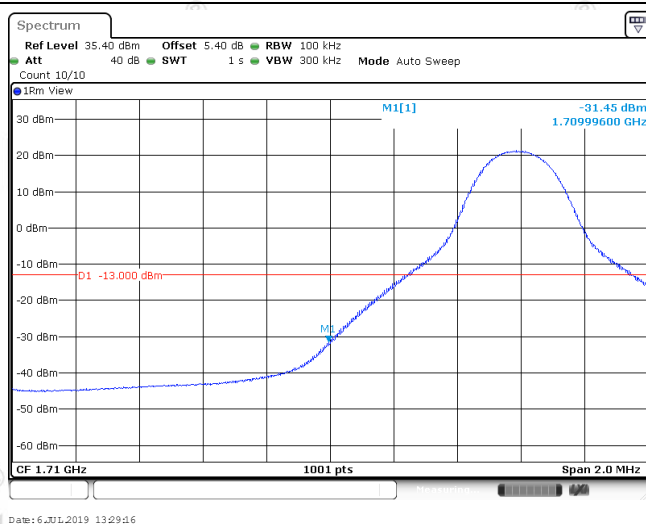
Band66_5MHz_16QAM_132647_1RB#24



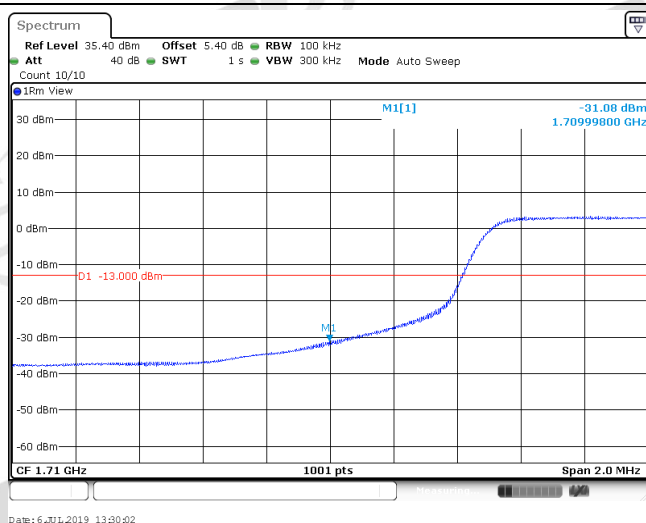
Band66_5MHz_16QAM_132647_25RB#0



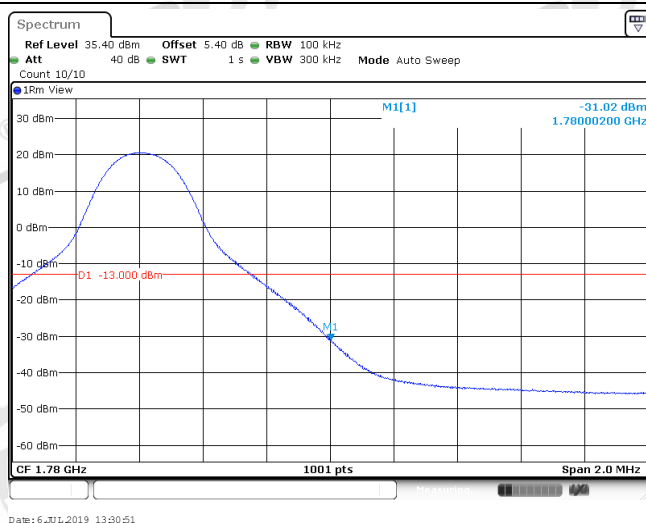
Band66_10MHz_QPSK_132022_1RB#0



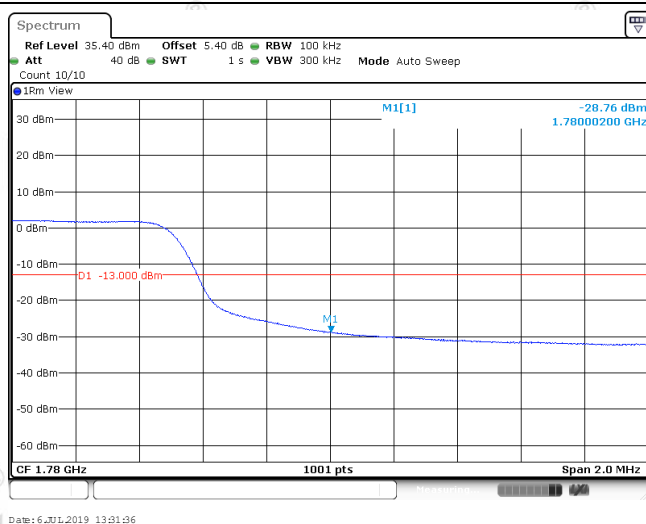
Band66_10MHz_QPSK_132022_50RB#0



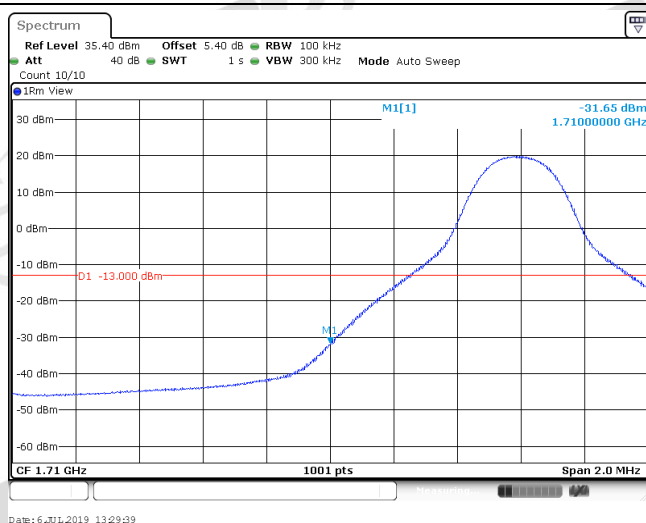
Band66_10MHz_QPSK_132622_1RB#49



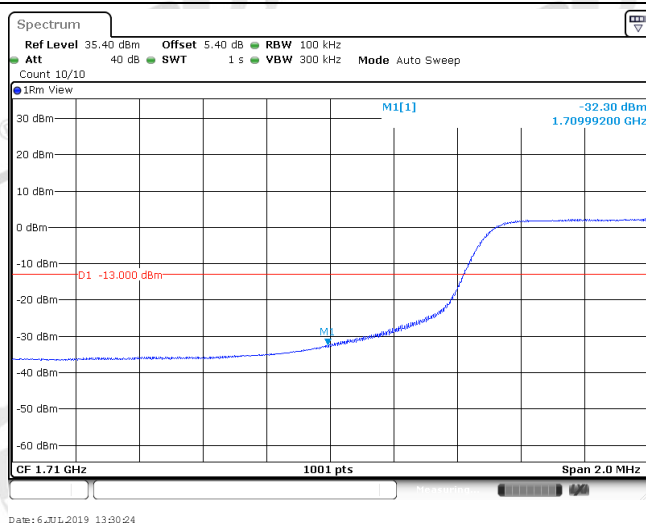
Band66_10MHz_QPSK_132622_50RB#0



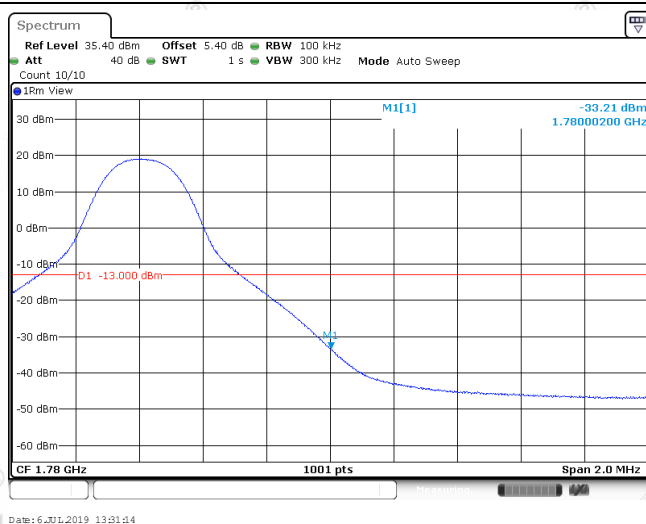
Band66_10MHz_16QAM_132022_1RB#0



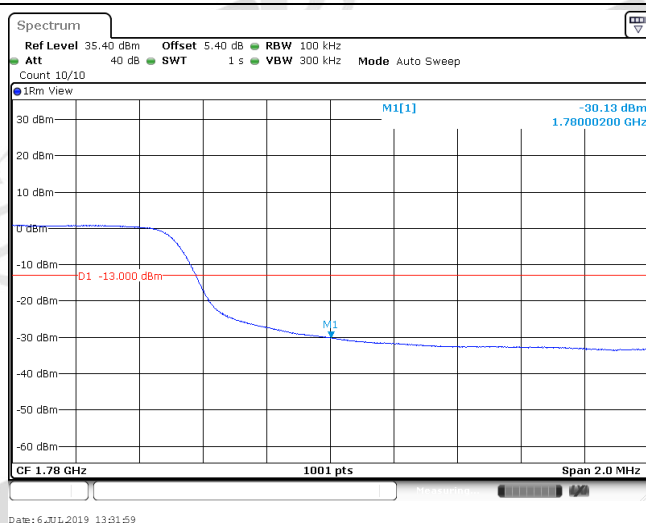
Band66_10MHz_16QAM_132022_50RB#0



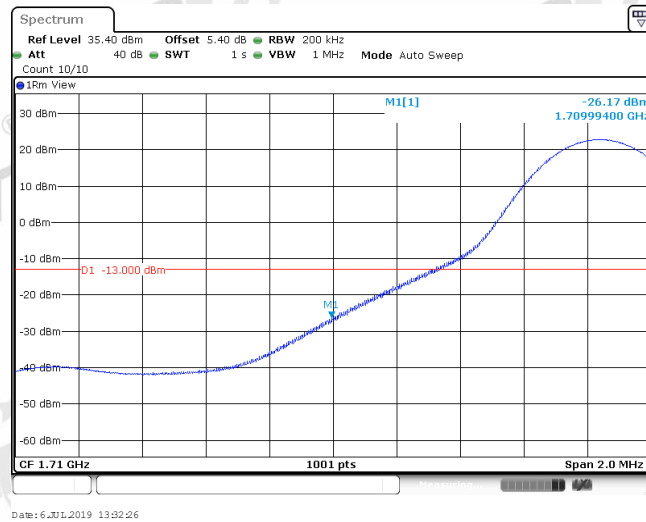
Band66_10MHz_16QAM_132622_1RB#49



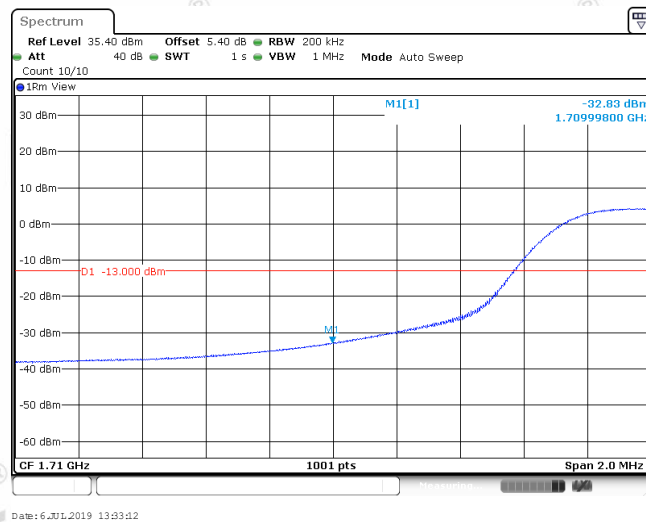
Band66_10MHz_16QAM_132622_50RB#0



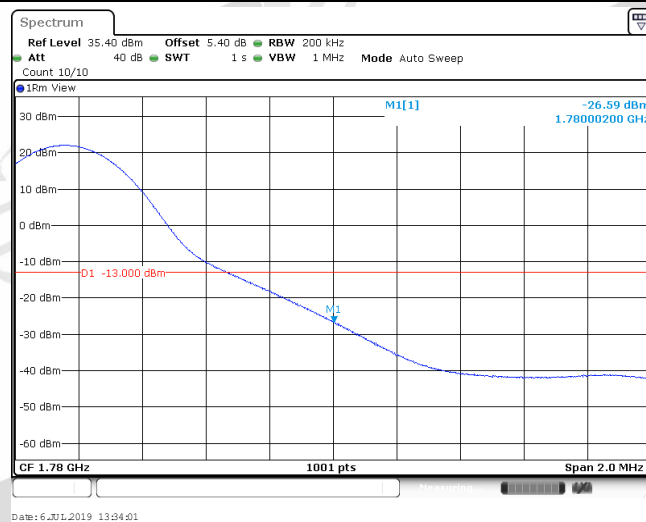
Band66_15MHz_QPSK_132047_1RB#0



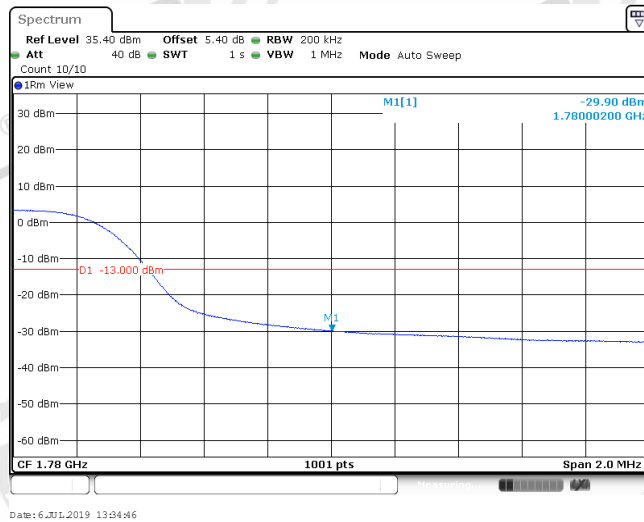
Band66_15MHz_QPSK_132047_75RB#0



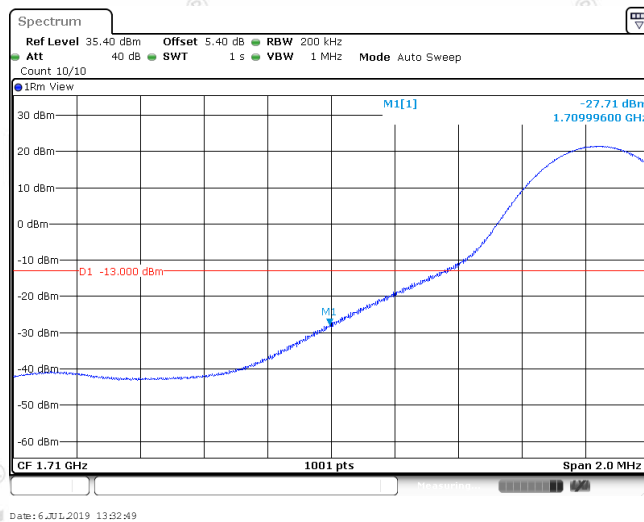
Band66_15MHz_QPSK_132597_1RB#74



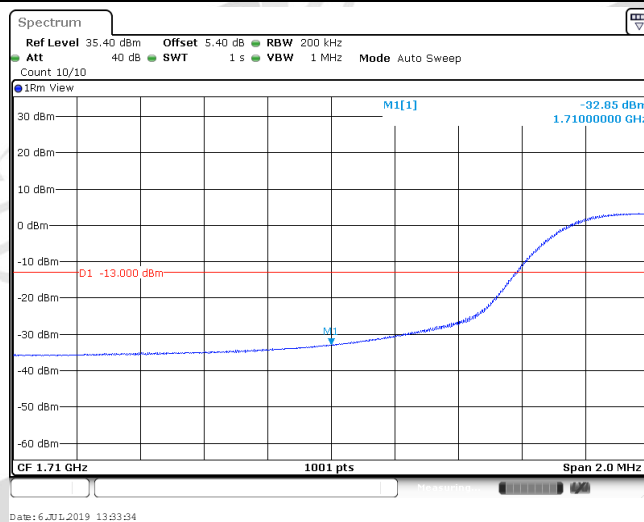
Band66_15MHz_QPSK_132597_75RB#0



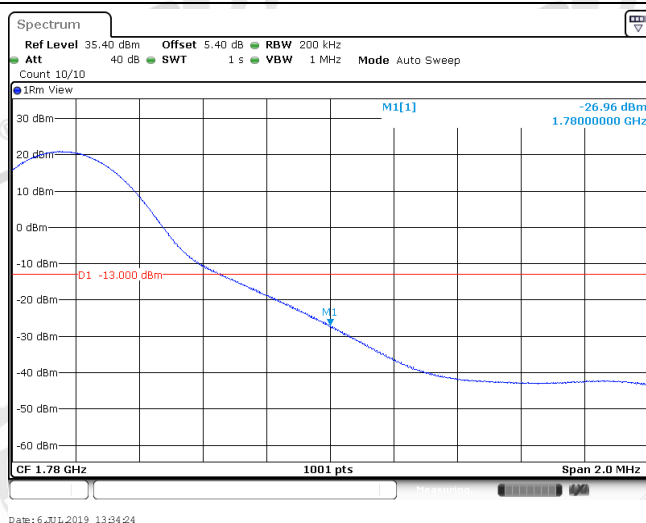
Band66_15MHz_16QAM_132047_1RB#0



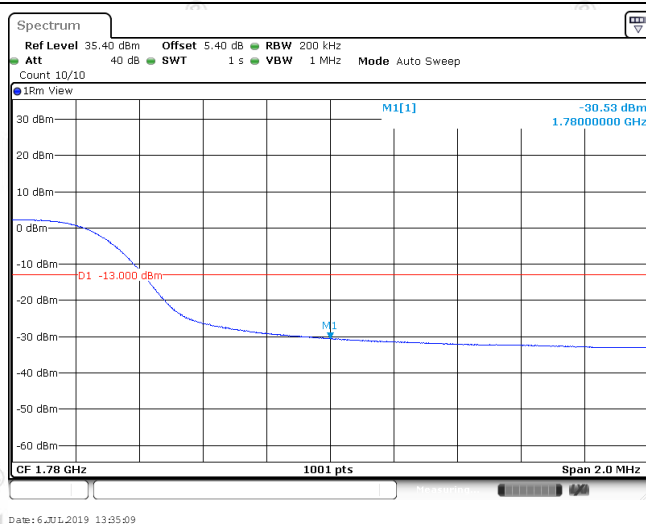
Band66_15MHz_16QAM_132047_75RB#0



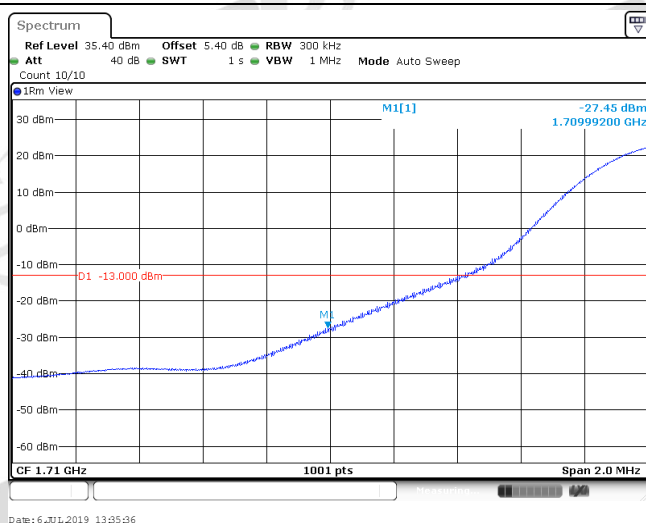
Band66_15MHz_16QAM_132597_1RB#74



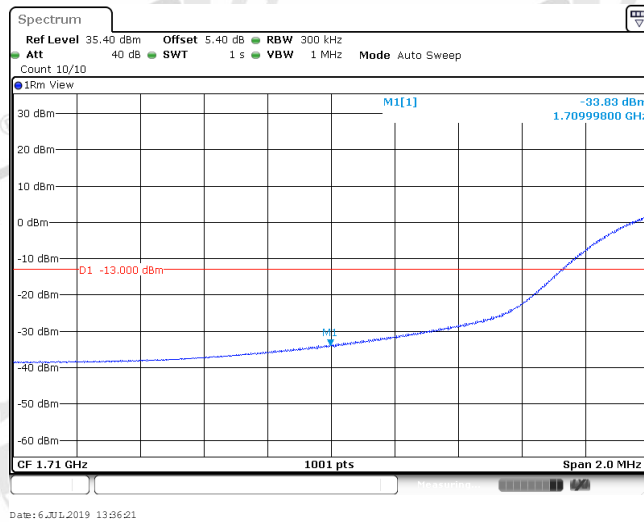
Band66_15MHz_16QAM_132597_75RB#0



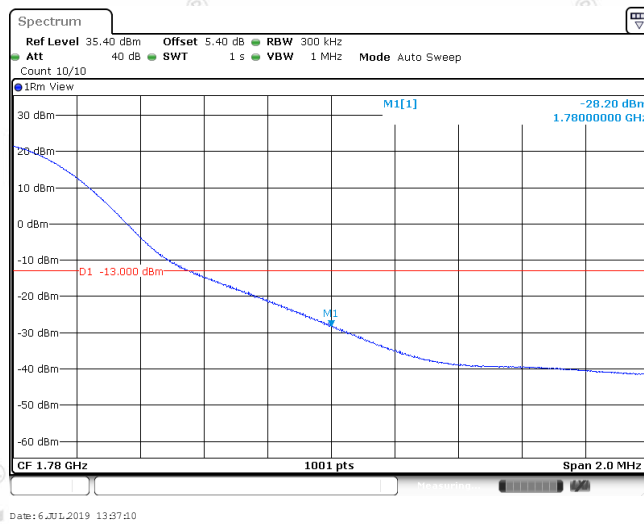
Band66_20MHz_QPSK_132072_1RB#0



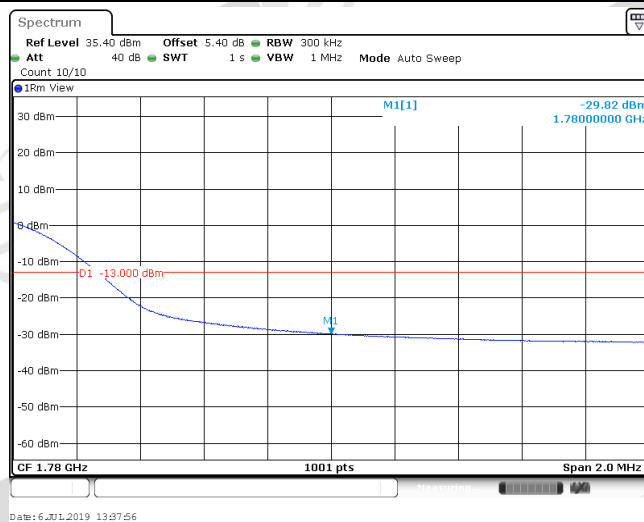
Band66_20MHz_QPSK_132072_100RB#0



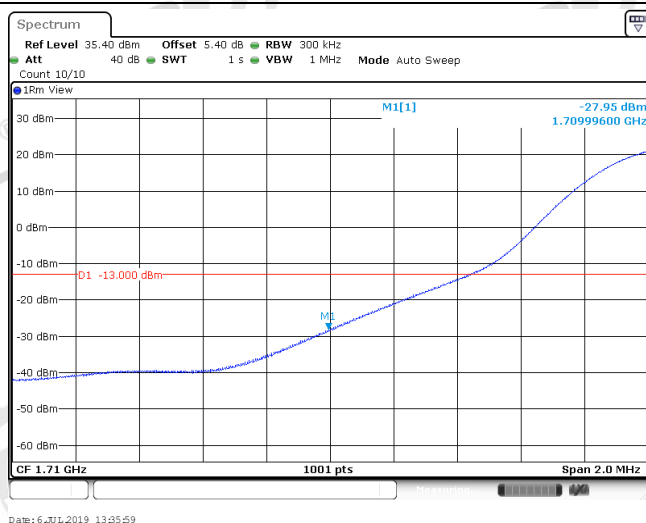
Band66_20MHz_QPSK_132572_1RB#99



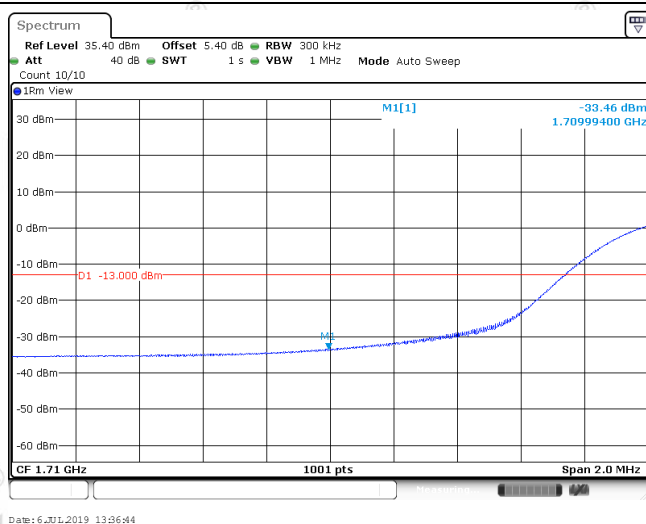
Band66_20MHz_QPSK_132572_100RB#0



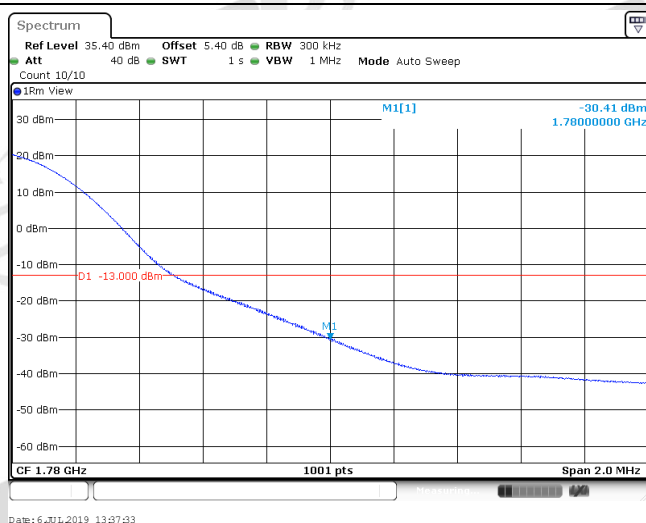
Band66_20MHz_16QAM_132072_1RB#0



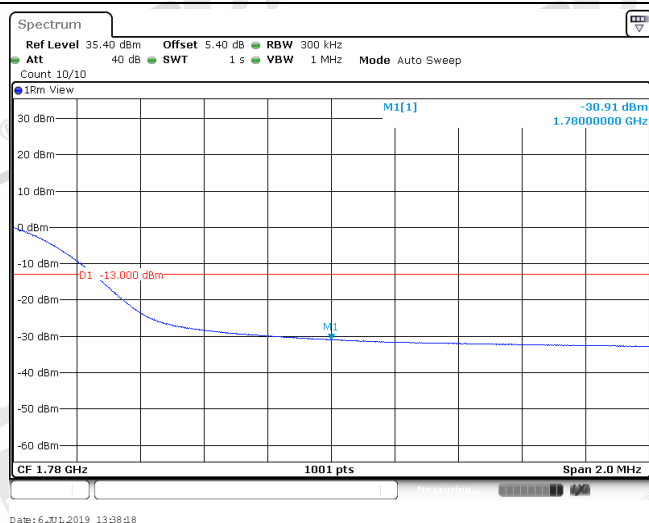
Band66_20MHz_16QAM_132072_100RB#0



Band66_20MHz_16QAM_132572_1RB#99



Band66_20MHz_16QAM_132572_100RB#0



8. Spurious Emission at Antenna Terminal

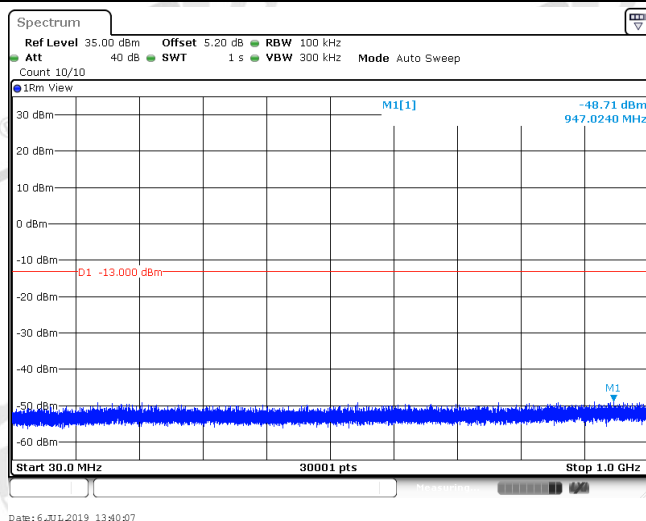
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

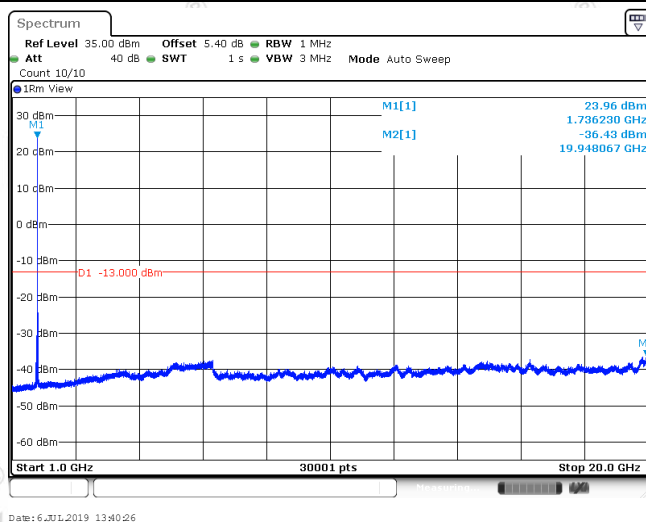
8.1. Test Plots



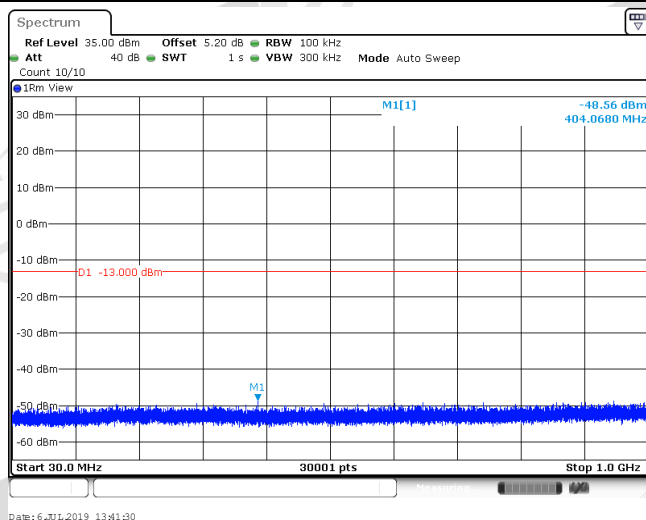
Band66_20MHz_QPSK_132322_1RB#0



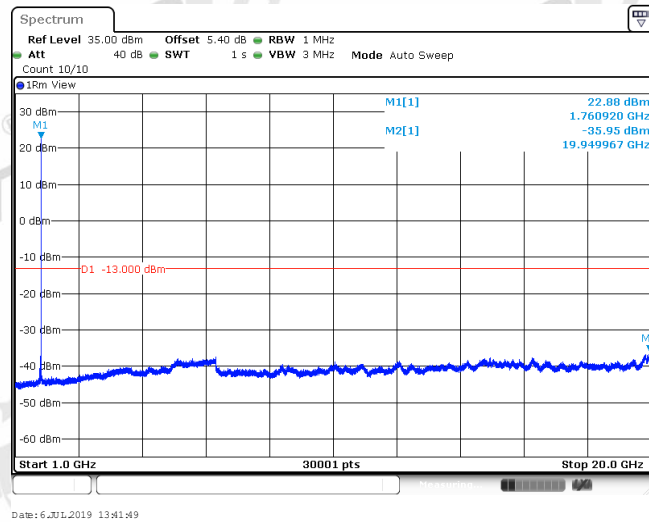
Band66_20MHz_QPSK_132322_1RB#0



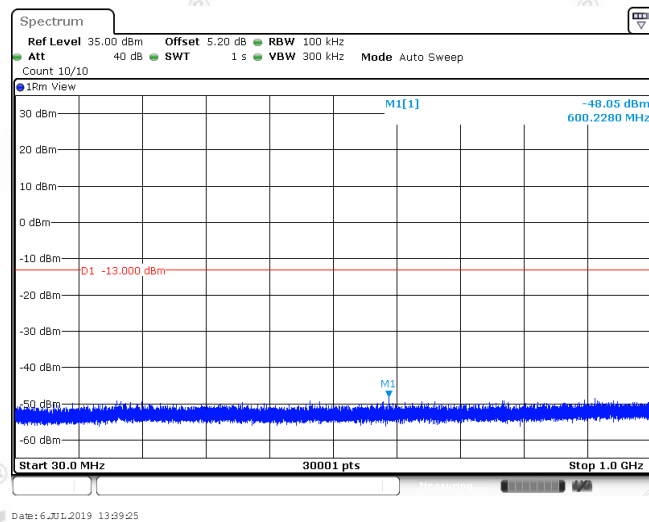
Band66_20MHz_QPSK_132572_1RB#0



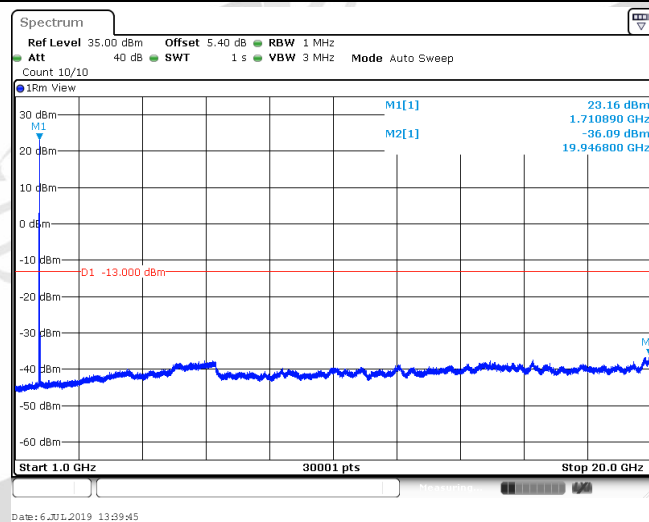
Band66_20MHz_QPSK_132572_1RB#0



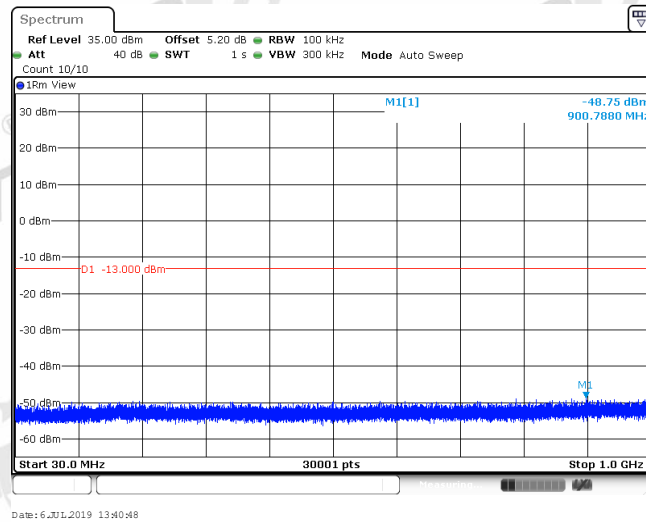
Band66_20MHz_16QAM_132072_1RB#0



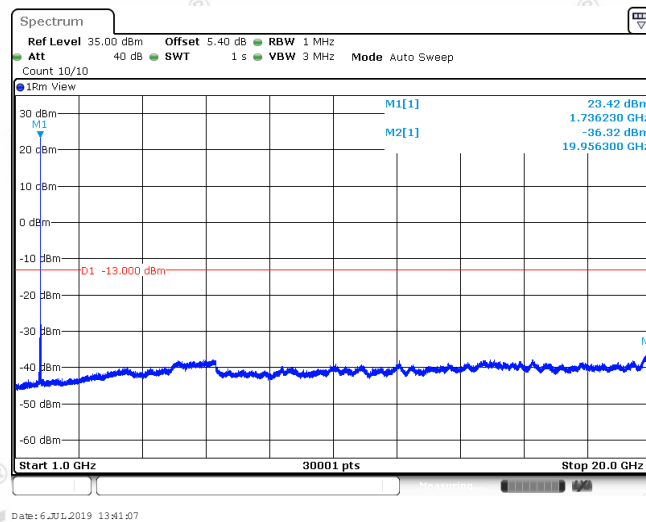
Band66_20MHz_16QAM_132072_1RB#0



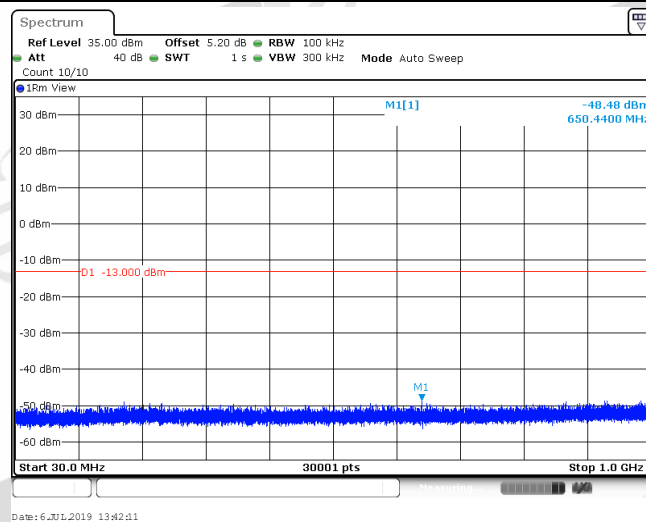
Band66_20MHz_16QAM_132322_1RB#0

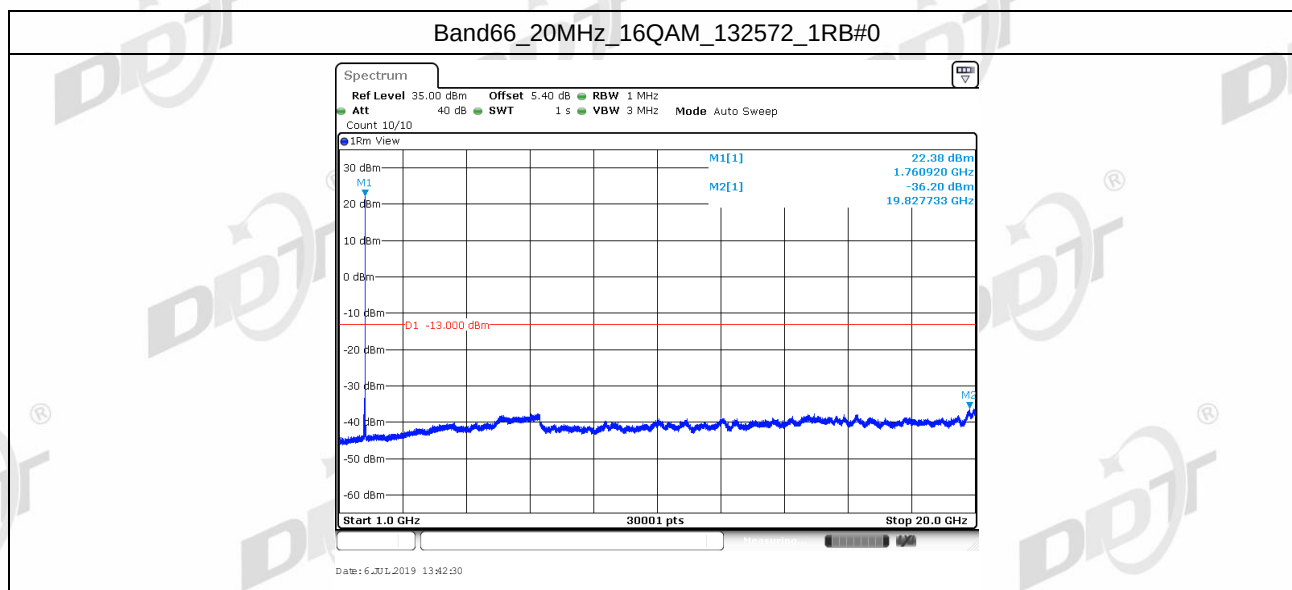


Band66_20MHz_16QAM_132322_1RB#0



Band66_20MHz_16QAM_132572_1RB#0





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
Band66	20MHz	QPSK	132072	100RB#0	VL	NT	1.50	0.000872	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	VN	NT	2.10	0.001221	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	VH	NT	2.20	0.001279	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	VL	NT	-3.10	-0.001777	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	VN	NT	-3.40	-0.001948	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	VH	NT	-2.90	-0.001662	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	VL	NT	0.80	0.000452	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	VN	NT	0.90	0.000508	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	VH	NT	1.50	0.000847	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	VL	NT	1.10	0.000640	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	VN	NT	1.90	0.001105	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	VH	NT	1.90	0.001105	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	VL	NT	-2.90	-0.001662	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	VN	NT	-3.90	-0.002235	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	VH	NT	-1.60	-0.000917	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	VL	NT	0.70	0.000395	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	VN	NT	2.10	0.001186	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	VH	NT	1.60	0.000904	±2.5	PASS

9.2. Frequency Vs Temperature

Temperature										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band66	20MHz	QPSK	132072	100RB#0	NV	-30	1.50	0.000872	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	-20	2.30	0.001337	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	0	3.30	0.001919	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	10	3.00	0.001744	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	20	2.00	0.001163	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-30	-2.00	-0.001146	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-20	-2.80	-0.001605	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	0	-2.30	-0.001318	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	10	-3.90	-0.002235	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	20	-2.00	-0.001146	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	-30	-0.90	-0.000508	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	-20	0.50	0.000282	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	0	0.10	0.000056	±2.5	PASS

Band66	20MHz	QPSK	132572	100RB#0	NV	10	2.80	0.001582	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	20	-0.70	-0.000395	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	-30	0.90	0.000523	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	-20	2.50	0.001453	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	0	1.70	0.000988	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	10	1.70	0.000988	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	20	0.60	0.000349	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	-30	-2.00	-0.001146	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	-20	-2.30	-0.001318	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	0	-3.40	-0.001948	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	10	-4.00	-0.002292	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	20	-3.30	-0.001891	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	-30	-0.40	-0.000226	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	-20	0.60	0.000339	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	0	-1.20	-0.000678	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	10	-1.40	-0.000791	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	20	-1.30	-0.000734	±2.5	PASS

The End