Appendix B

E-UTRA Band 13

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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.08	19.43	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#13	23.37	19.72	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.05	19.40	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#0	22.16	18.51	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#6	22.11	18.46	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#13	21.94	18.29	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.14	18.49	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.20	19.55	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#13	23.63	19.98	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.09	19.44	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#0	22.28	18.63	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#6	22.27	18.62	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#13	22.19	18.54	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.35	18.70	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	22.90	19.25	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#13	23.16	19.51	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	22.87	19.22	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#0	21.92	18.27	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#6	21.92	18.27	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#13	21.81	18.16	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.06	18.41	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.23	18.58	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#13	22.12	18.47	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	21.78	18.13	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#0	21.04	17.39	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#6	21.19	17.54	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#13	21.02	17.37	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.08	17.43	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.40	18.75	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#13	22.25	18.60	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	21.83	18.18	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#0	21.27	17.62	34.77	PASS

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Band13	5MHz	16QAM	23230	12RB#6	21.34	17.69	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#13	21.19	17.54	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.27	17.62	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.14	18.49	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#13	21.93	18.28	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	21.74	18.09	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#0	20.89	17.24	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#6	20.98	17.33	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#13	20.91	17.26	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	20.97	17.32	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.38	19.73	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#25	**23.75**	20.10	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.28	19.63	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#0	**22.45**	18.80	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#13	22.42	18.77	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#25	22.32	18.67	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.45	18.80	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.52	18.87	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#25	22.39	18.74	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	21.89	18.24	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#0	21.42	17.77	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#13	21.47	17.82	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#25	21.36	17.71	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.41	17.76	34.77	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]

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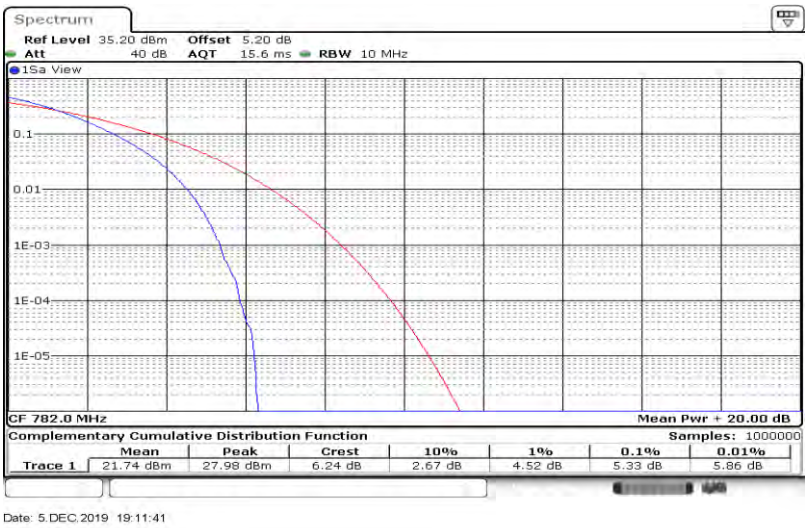
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

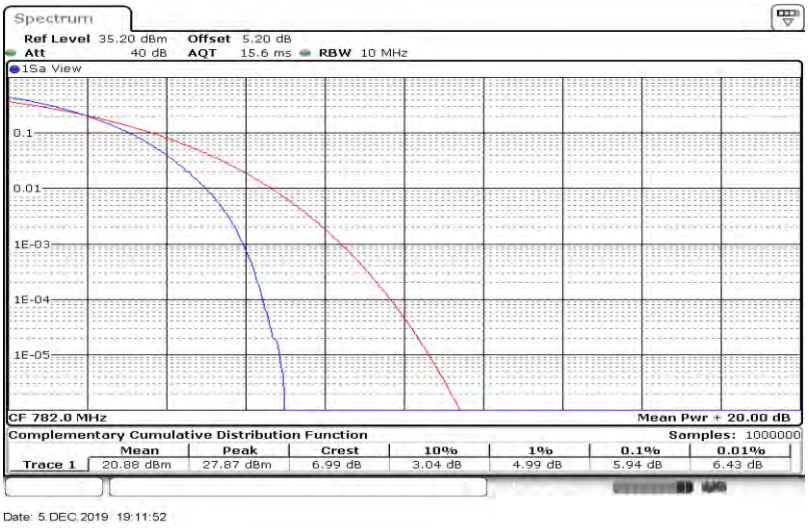
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	5.33	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	5.94	13	PASS

2.2. Test Plots

Band13-10MHz-QPSK-23230-50RB#0



Band13-10MHz-16QAM-23230-50RB#0



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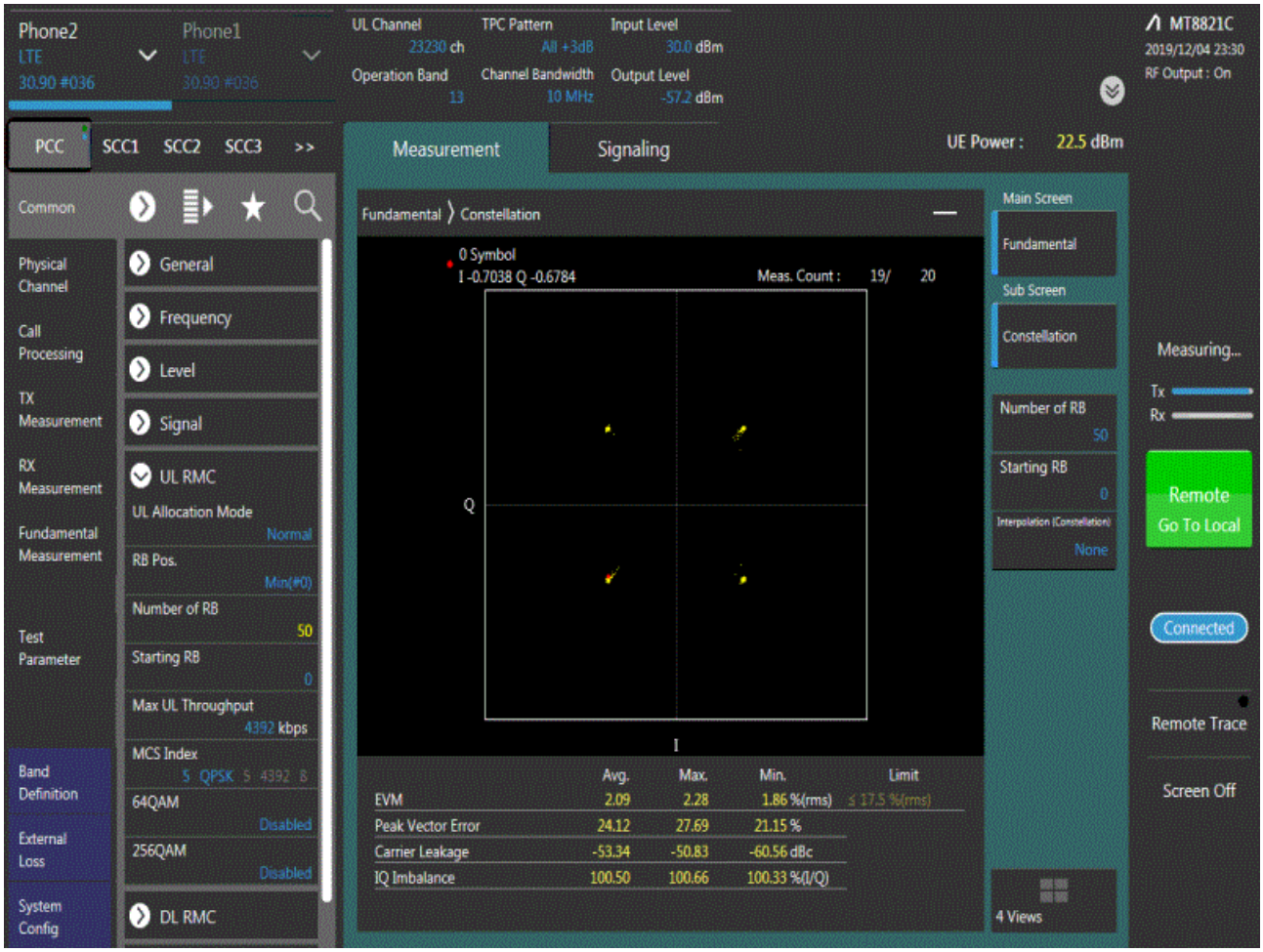
3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1. Test Channel = MCH



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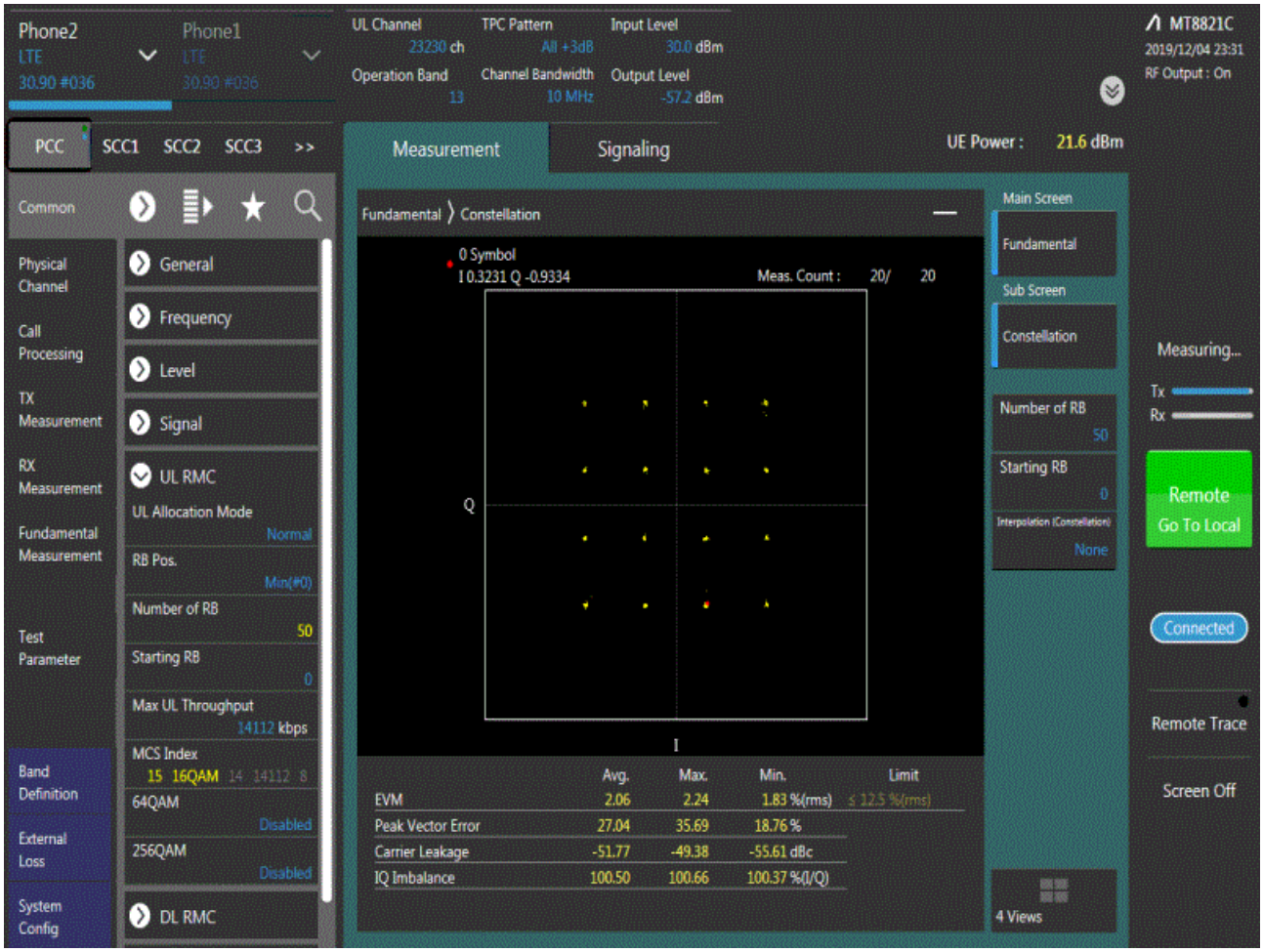
3.2. Test Mode = LTE /TM2 10MHz

3.2.1.Test Channel = MCH



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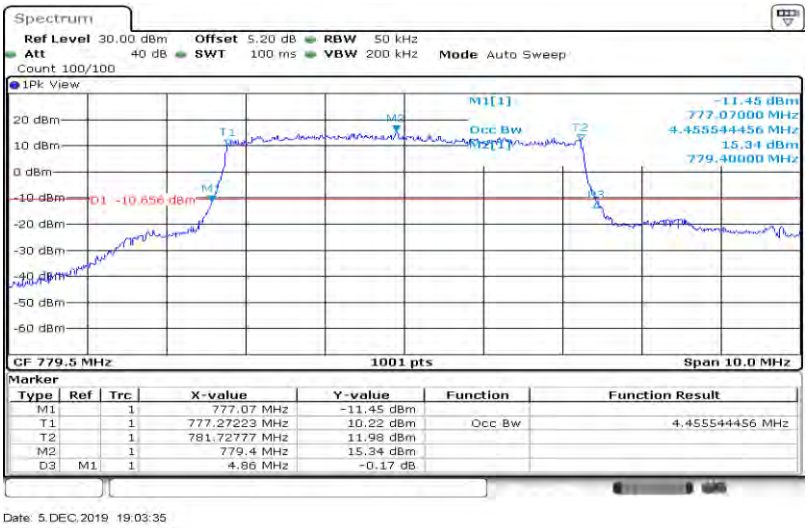
4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.456	4.860	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.476	4.980	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.476	4.910	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.476	4.890	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.505	5.000	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.476	4.940	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.931	9.700	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.931	9.740	PASS

4.2. Test Plots

Band13-5MHz-QPSK-23205-25RB#0-4.456



Band13-5MHz-QPSK-23230-25RB#0-4.476

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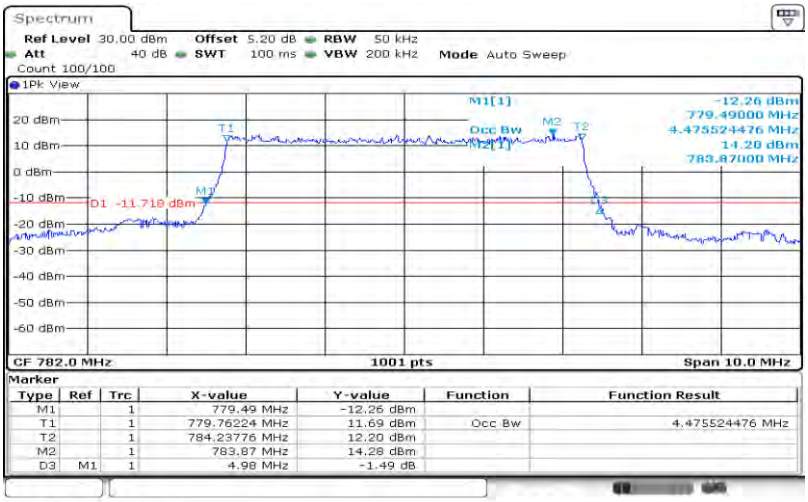
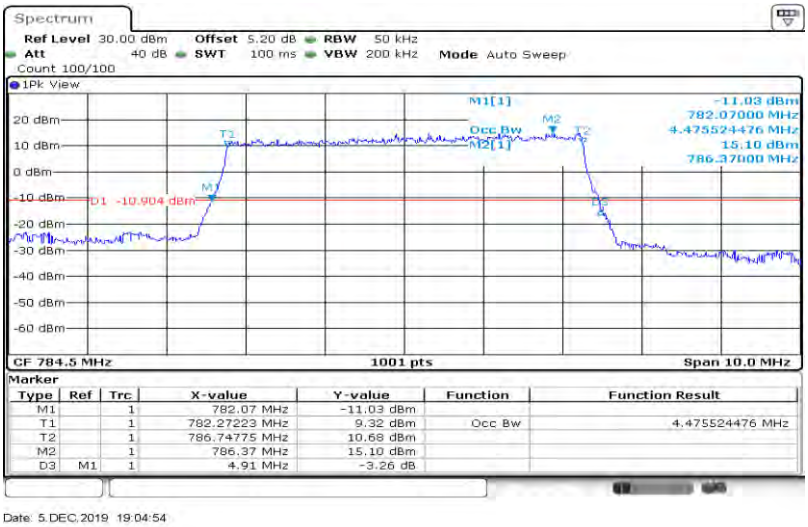


Band13-5MHz-QPSK-23255-25RB#0-4.476



Band13-5MHz-16QAM-23205-25RB#0-4.476

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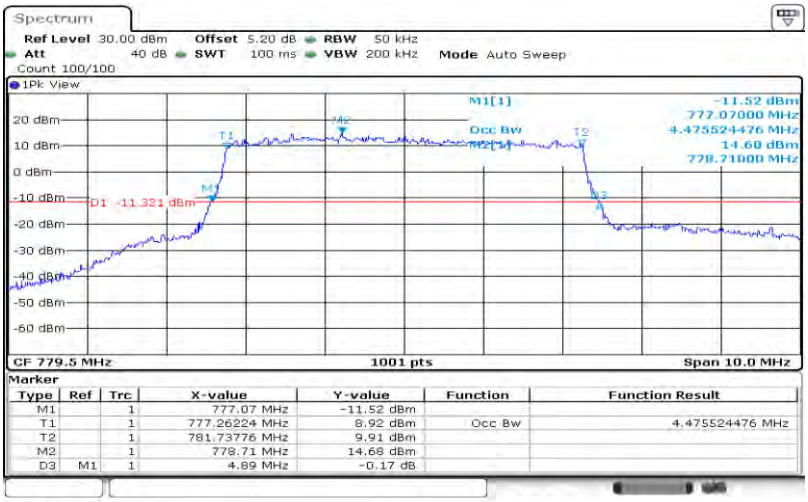
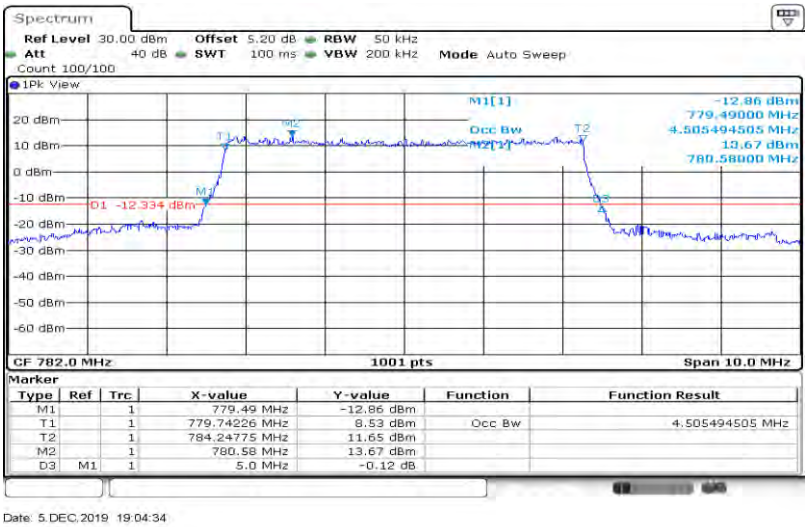


Band13-5MHz-16QAM-23230-25RB#0-4.505



Band13-5MHz-16QAM-23255-25RB#0-4.476

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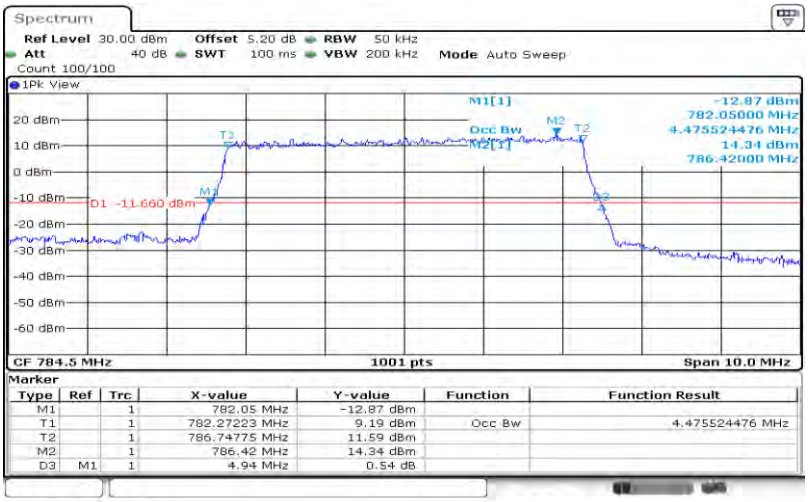
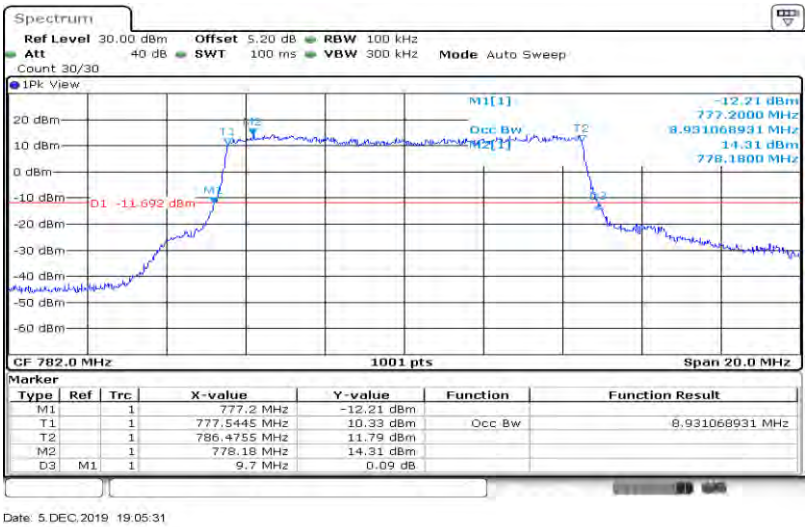


Band13-10MHz-QPSK-23230-50RB#0-8.931



Band13-10MHz-16QAM-23230-50RB#0-8.931

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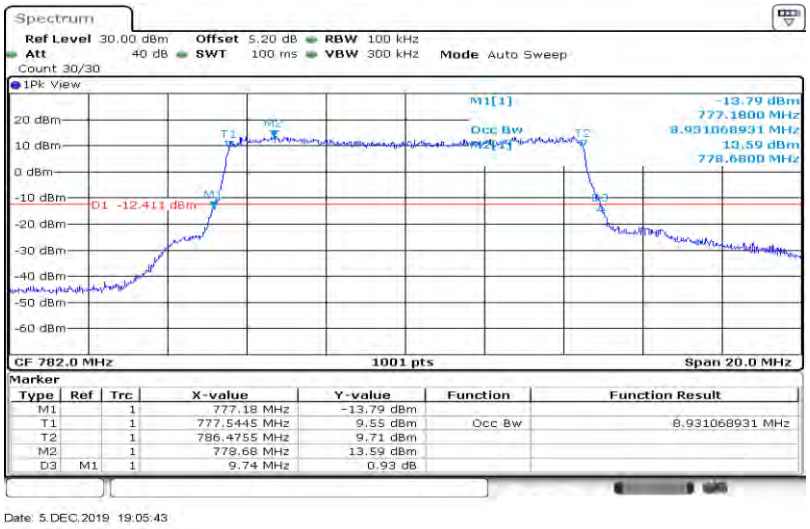

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	777.18 MHz	-13.79 dBm		
T1		1	777.5445 MHz	9.55 dBm	Occ Bw	8.931068931 MHz
T2		1	786.4755 MHz	9.71 dBm		
M2		1	778.68 MHz	13.59 dBm		
D3	M1	1	9.74 MHz	0.93 dB		

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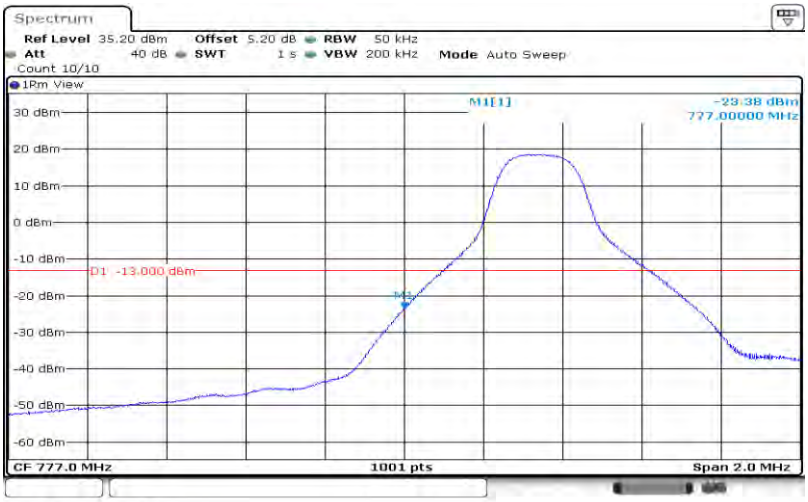
5. Band Edge Compliance

5.1. Test Plots

Band13-5MHz-QPSK-23205-1RB#0



Band13-5MHz-QPSK-23205-25RB#0

Band13-5MHz-QPSK-23255-1RB#24

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Band13-5MHz-QPSK-23255-25RB#0

Band13-5MHz-16QAM-23205-1RB#0

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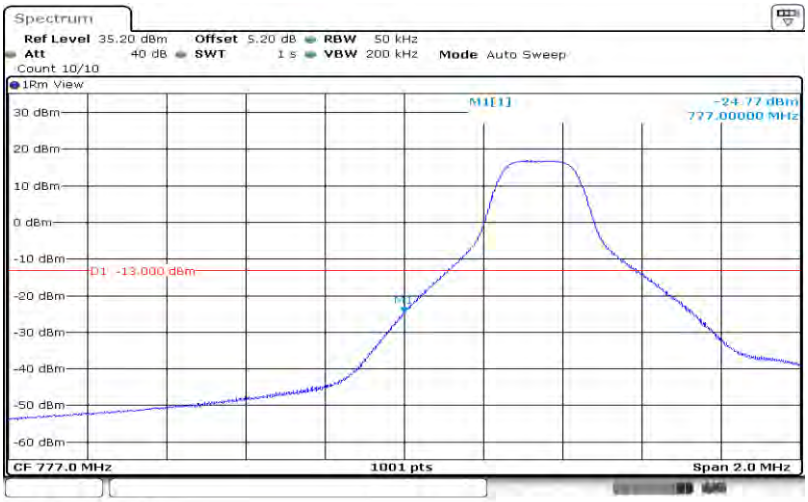

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Band13-5MHz-16QAM-23205-25RB#0

Date: 5.DEC.2019 19:07:06

Band13-5MHz-16QAM-23255-1RB#24

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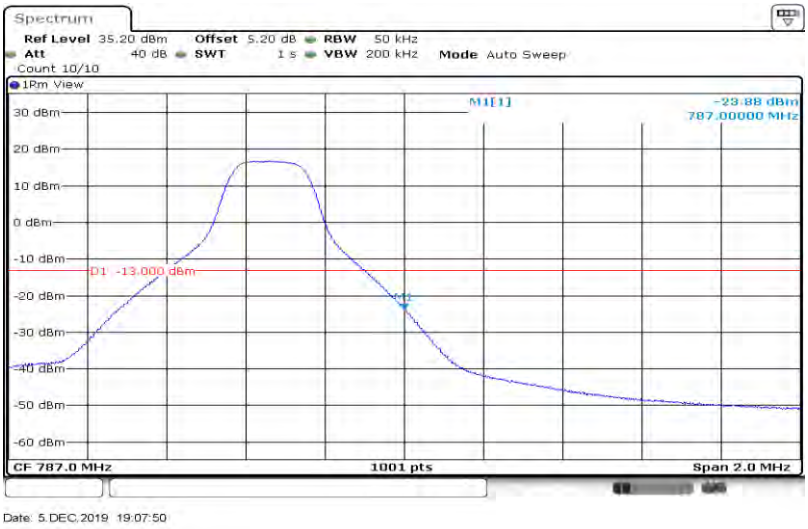

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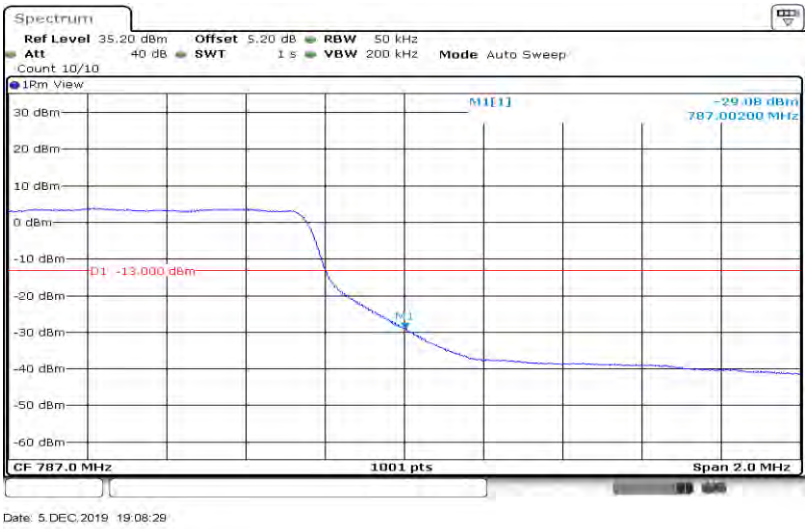

Band13-10MHz-QPSK-23230_Left-1RB#0

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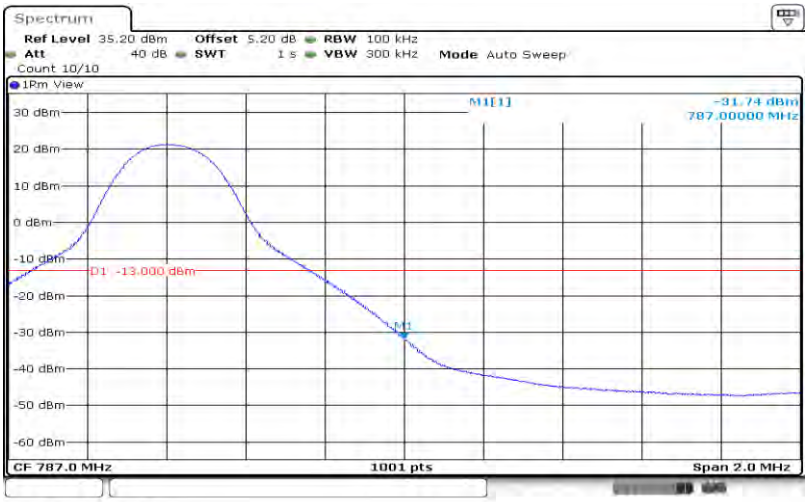
Band13-10MHz-QPSK-23230_Right-1RB#49



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Band13-10MHz-QPSK-23230_Right-50RB#0

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Band13-10MHz-16QAM-23230_Left-1RB#0

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Band13-10MHz-16QAM-23230_Right-1RB#49

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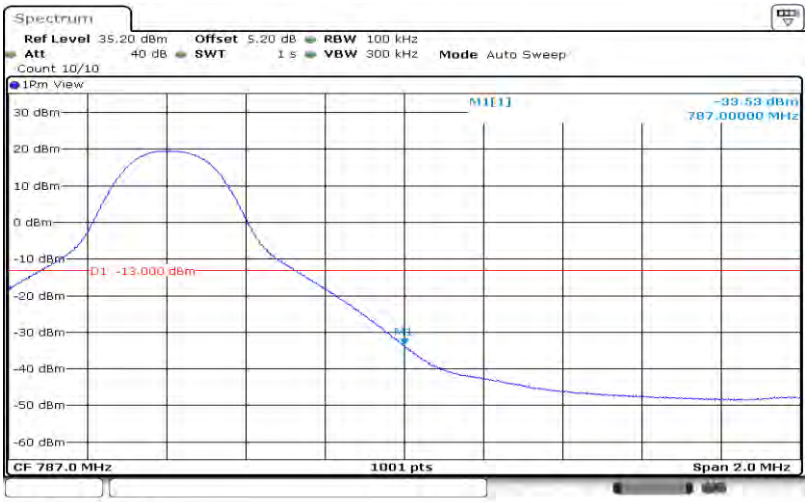

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Band13-10MHz-16QAM-23230_Right-50RB#0

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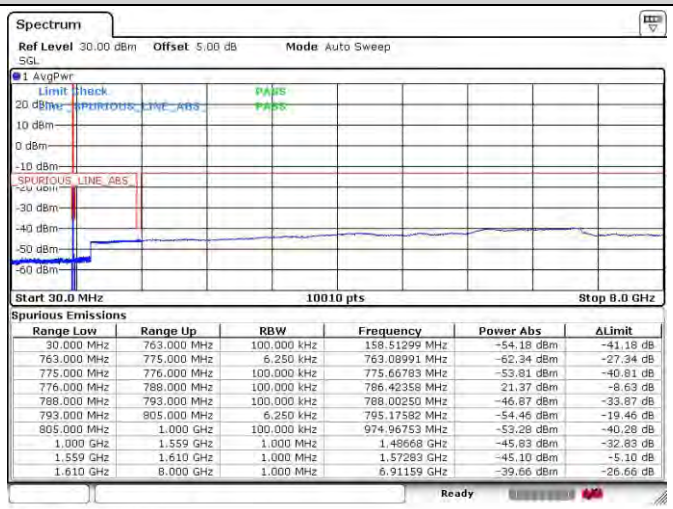
6. Spurious Emission at Antenna Terminal

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 * (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

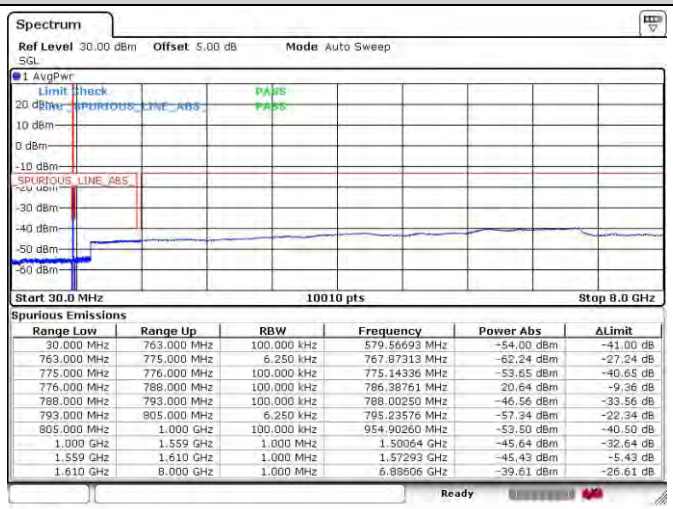
Band13-10MHz-QPSK-23230-1RB#0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	158.51299 MHz	-54.18 dBm	-41.18 dB
763.000 MHz	775.000 MHz	6.250 kHz	763.08991 MHz	-62.34 dBm	-27.34 dB
775.000 MHz	776.000 MHz	100.000 kHz	775.66783 MHz	-53.81 dBm	-40.81 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.42358 MHz	21.37 dBm	-8.63 dB
788.000 MHz	793.000 MHz	100.000 kHz	788.00250 MHz	-46.87 dBm	-33.87 dB
793.000 MHz	805.000 MHz	6.250 kHz	795.17582 MHz	-54.46 dBm	-19.46 dB
805.000 MHz	1.000 GHz	100.000 kHz	974.96753 MHz	-53.28 dBm	-40.28 dB
1.000 GHz	1.559 GHz	1.000 MHz	1.48668 GHz	-45.83 dBm	-32.83 dB
1.559 GHz	1.610 GHz	1.000 MHz	1.57283 GHz	-45.10 dBm	-5.10 dB
1.610 GHz	8.000 GHz	1.000 MHz	6.91159 GHz	-39.66 dBm	-26.66 dB

Band13-10MHz-16QAM-23230-1RB#0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	579.56693 MHz	-54.00 dBm	-41.00 dB
763.000 MHz	775.000 MHz	6.250 kHz	767.87313 MHz	-62.24 dBm	-27.24 dB
775.000 MHz	776.000 MHz	100.000 kHz	775.14336 MHz	-53.65 dBm	-40.65 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.38761 MHz	20.64 dBm	-9.36 dB
788.000 MHz	793.000 MHz	100.000 kHz	788.00250 MHz	-46.56 dBm	-33.56 dB
793.000 MHz	805.000 MHz	6.250 kHz	795.23576 MHz	-57.34 dBm	-22.34 dB
805.000 MHz	1.000 GHz	100.000 kHz	954.90260 MHz	-53.50 dBm	-40.50 dB
1.000 GHz	1.559 GHz	1.000 MHz	1.50064 GHz	-45.64 dBm	-32.64 dB
1.559 GHz	1.610 GHz	1.000 MHz	1.57293 GHz	-45.43 dBm	-5.43 dB
1.610 GHz	8.000 GHz	1.000 MHz	6.88606 GHz	-39.61 dBm	-26.61 dB

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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1

7.1.1. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
114.2002	-65.15	-13.00	52.15	Vertical
1559.9110	-63.43	-40.00	13.43	Vertical
2332.6665	-51.29	-13.00	38.29	Vertical
7776.1910	-49.86	-13.00	36.86	Vertical
14494.6598	-44.63	-13.00	31.63	Vertical
17995.7998	-36.91	-13.00	23.91	Vertical
42.1256	-65.27	-13.00	52.27	Horizontal
1559.3111	-62.70	-40.00	12.70	Horizontal
2333.0666	-47.45	-13.00	34.45	Horizontal
7776.1910	-52.84	-13.00	39.84	Horizontal
16402.7361	-40.25	-13.00	27.25	Horizontal
17995.1998	-41.03	-13.00	28.03	Horizontal

Remark:

1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.

3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.

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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	0.60	0.000767	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-0.70	-0.000895	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-1.10	-0.001407	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VL	NT	-0.60	-0.000767	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VN	NT	0.40	0.000512	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VH	NT	0.20	0.000256	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-1.10	-0.001407	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-0.30	-0.000384	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-1.10	-0.001407	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	0.00	0.000000	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-0.10	-0.000128	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-1.30	-0.001662	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-0.70	-0.000895	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-2.10	-0.002685	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-30	-0.90	-0.001151	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-20	-0.50	-0.000639	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	0	-1.00	-0.001279	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	10	0.10	0.000128	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	20	-0.30	-0.000384	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	30	-1.30	-0.001662	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	40	-0.70	-0.000895	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	50	-0.70	-0.000895	±2.5	PASS

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