

Appendix

LTE Band 14 Test Data

Conducted Test Data

Conducted Output Power and ERP

Condition	Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Gain (dBm)	ERP (dBm)	ERP Limit (dBm)	Verdict
NVNT	Band14	5	23305	1	#0	QPSK	25.47	2.60	25.92	34.77	PASS
NVNT	Band14	5	23305	1	#Mid	QPSK	25.57	2.60	26.02	34.77	PASS
NVNT	Band14	5	23305	1	#Max	QPSK	25.25	2.60	25.70	34.77	PASS
NVNT	Band14	5	23305	12	#0	QPSK	24.31	2.60	24.76	34.77	PASS
NVNT	Band14	5	23305	12	#Mid	QPSK	24.35	2.60	24.80	34.77	PASS
NVNT	Band14	5	23305	12	#Max	QPSK	24.22	2.60	24.67	34.77	PASS
NVNT	Band14	5	23305	25	#0	QPSK	24.21	2.60	24.66	34.77	PASS
NVNT	Band14	5	23305	1	#0	QAM16	24.02	2.60	24.47	34.77	PASS
NVNT	Band14	5	23305	1	#Mid	QAM16	23.61	2.60	24.06	34.77	PASS
NVNT	Band14	5	23305	1	#Max	QAM16	23.57	2.60	24.02	34.77	PASS
NVNT	Band14	5	23305	12	#0	QAM16	22.90	2.60	23.35	34.77	PASS
NVNT	Band14	5	23305	12	#Mid	QAM16	22.93	2.60	23.38	34.77	PASS
NVNT	Band14	5	23305	12	#Max	QAM16	22.90	2.60	23.35	34.77	PASS
NVNT	Band14	5	23305	25	#0	QAM16	23.16	2.60	23.61	34.77	PASS
NVNT	Band14	5	23330	1	#0	QPSK	25.10	2.60	25.55	34.77	PASS
NVNT	Band14	5	23330	1	#Mid	QPSK	25.18	2.60	25.63	34.77	PASS
NVNT	Band14	5	23330	1	#Max	QPSK	25.08	2.60	25.53	34.77	PASS
NVNT	Band14	5	23330	12	#0	QPSK	24.08	2.60	24.53	34.77	PASS
NVNT	Band14	5	23330	12	#Mid	QPSK	24.02	2.60	24.47	34.77	PASS
NVNT	Band14	5	23330	12	#Max	QPSK	24.04	2.60	24.49	34.77	PASS
NVNT	Band14	5	23330	25	#0	QPSK	24.09	2.60	24.54	34.77	PASS
NVNT	Band14	5	23330	1	#0	QAM16	24.02	2.60	24.47	34.77	PASS
NVNT	Band14	5	23330	1	#Mid	QAM16	24.09	2.60	24.54	34.77	PASS
NVNT	Band14	5	23330	1	#Max	QAM16	23.76	2.60	24.21	34.77	PASS
NVNT	Band14	5	23330	12	#0	QAM16	23.05	2.60	23.50	34.77	PASS
NVNT	Band14	5	23330	12	#Mid	QAM16	23.01	2.60	23.46	34.77	PASS
NVNT	Band14	5	23330	12	#Max	QAM16	22.84	2.60	23.29	34.77	PASS
NVNT	Band14	5	23330	25	#0	QAM16	23.04	2.60	23.49	34.77	PASS
NVNT	Band14	5	23355	1	#0	QPSK	24.72	2.60	25.17	34.77	PASS
NVNT	Band14	5	23355	1	#Mid	QPSK	25.52	2.60	25.97	34.77	PASS
NVNT	Band14	5	23355	1	#Max	QPSK	25.17	2.60	25.62	34.77	PASS
NVNT	Band14	5	23355	12	#0	QPSK	23.94	2.60	24.39	34.77	PASS
NVNT	Band14	5	23355	12	#Mid	QPSK	23.91	2.60	24.36	34.77	PASS
NVNT	Band14	5	23355	12	#Max	QPSK	24.08	2.60	24.53	34.77	PASS
NVNT	Band14	5	23355	25	#0	QPSK	24.01	2.60	24.46	34.77	PASS
NVNT	Band14	5	23355	1	#0	QAM16	23.96	2.60	24.41	34.77	PASS

NVNT	Band14	5	23355	1	#Mid	QAM16	23.91	2.60	24.36	34.77	PASS
NVNT	Band14	5	23355	1	#Max	QAM16	23.87	2.60	24.32	34.77	PASS
NVNT	Band14	5	23355	12	#0	QAM16	22.93	2.60	23.38	34.77	PASS
NVNT	Band14	5	23355	12	#Mid	QAM16	22.91	2.60	23.36	34.77	PASS
NVNT	Band14	5	23355	12	#Max	QAM16	22.99	2.60	23.44	34.77	PASS
NVNT	Band14	5	23355	25	#0	QAM16	23.06	2.60	23.51	34.77	PASS
NVNT	Band14	10	23330	1	#0	QPSK	24.97	2.60	25.42	34.77	PASS
NVNT	Band14	10	23330	1	#Mid	QPSK	25.00	2.60	25.45	34.77	PASS
NVNT	Band14	10	23330	1	#Max	QPSK	24.93	2.60	25.38	34.77	PASS
NVNT	Band14	10	23330	25	#0	QPSK	23.91	2.60	24.36	34.77	PASS
NVNT	Band14	10	23330	25	#Mid	QPSK	23.84	2.60	24.29	34.77	PASS
NVNT	Band14	10	23330	25	#Max	QPSK	23.84	2.60	24.29	34.77	PASS
NVNT	Band14	10	23330	50	#0	QPSK	23.86	2.60	24.31	34.77	PASS
NVNT	Band14	10	23330	1	#0	QAM16	24.09	2.60	24.54	34.77	PASS
NVNT	Band14	10	23330	1	#Mid	QAM16	24.70	2.60	25.15	34.77	PASS
NVNT	Band14	10	23330	1	#Max	QAM16	24.34	2.60	24.79	34.77	PASS
NVNT	Band14	10	23330	25	#0	QAM16	22.71	2.60	23.16	34.77	PASS
NVNT	Band14	10	23330	25	#Mid	QAM16	22.81	2.60	23.26	34.77	PASS
NVNT	Band14	10	23330	25	#Max	QAM16	22.83	2.60	23.28	34.77	PASS
NVNT	Band14	10	23330	50	#0	QAM16	22.86	2.60	23.31	34.77	PASS

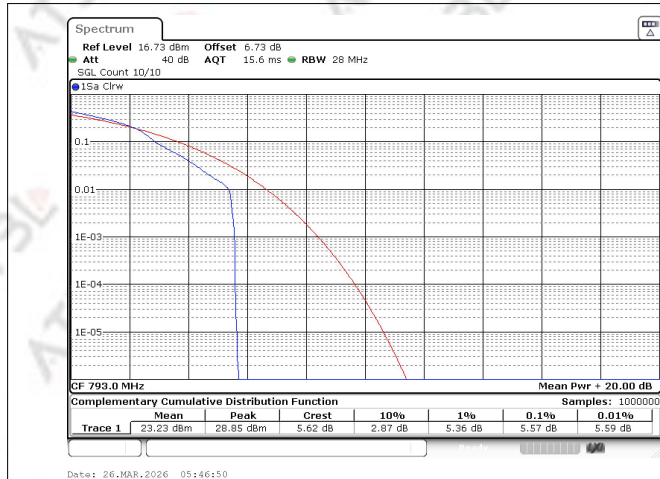
Frequency stability

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Voltage (Vdc)	Temperature (°C)	Result (Hz)	Result (ppm)	Verdict
Band14	10	23330	50	#0	QPSK	VL	NT	-1.28	-0.002	PASS
Band14	10	23330	50	#0	QPSK	VN	NT	0.00	0.000	PASS
Band14	10	23330	50	#0	QPSK	VH	NT	-1.70	-0.002	PASS

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Voltage (Vdc)	Temperature (°C)	Result (Hz)	Result (ppm)	Verdict
Band14	10	23330	50	#0	QPSK	NV	-30	-0.43	-0.001	PASS
Band14	10	23330	50	#0	QPSK	NV	-20	-1.76	-0.002	PASS
Band14	10	23330	50	#0	QPSK	NV	-10	-0.54	-0.001	PASS
Band14	10	23330	50	#0	QPSK	NV	0	-0.80	-0.001	PASS
Band14	10	23330	50	#0	QPSK	NV	10	-1.47	-0.002	PASS
Band14	10	23330	50	#0	QPSK	NV	20	-1.69	-0.002	PASS
Band14	10	23330	50	#0	QPSK	NV	30	-1.00	-0.001	PASS
Band14	10	23330	50	#0	QPSK	NV	40	-1.26	-0.002	PASS
Band14	10	23330	50	#0	QPSK	NV	50	-0.93	-0.001	PASS

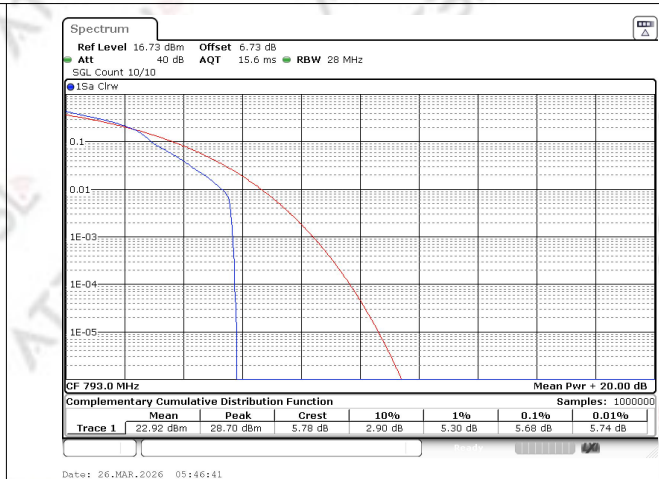
Peak-to-Average Ratio

Condition	Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
NVNT	Band14	5	23330	1	#0	QPSK	4.75	13	PASS
NVNT	Band14	5	23330	1	#0	QAM16	5.68	13	PASS
NVNT	Band14	10	23330	1	#0	QPSK	4.70	13	PASS
NVNT	Band14	10	23330	1	#0	QAM16	5.57	13	PASS



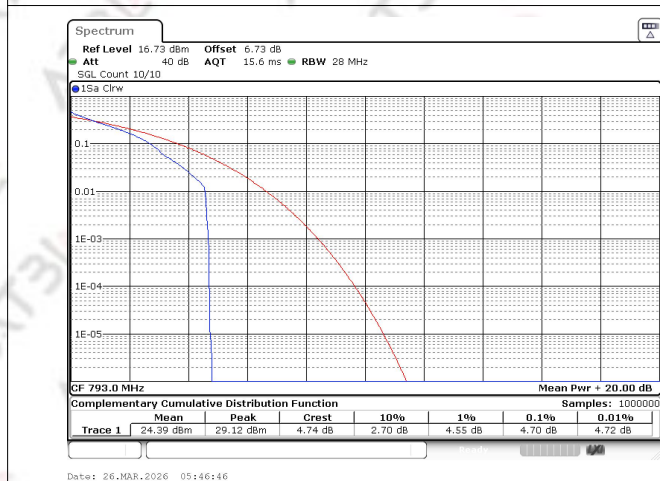
Band14 QAM16 BW=10MHz Channel=23330 RB Size=1 Position=#0

NVNT



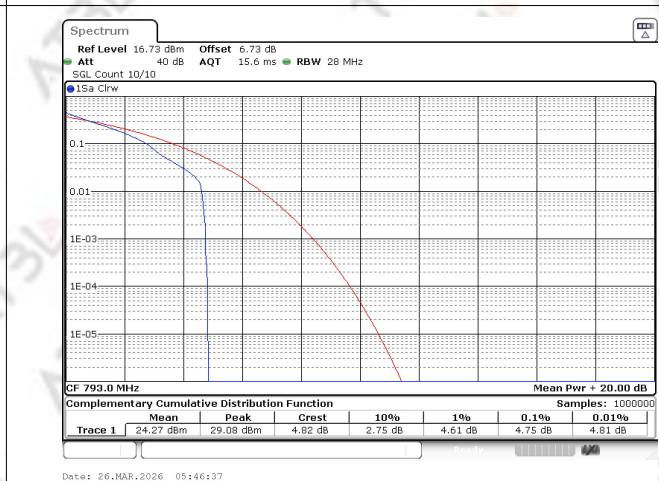
Band14 QAM16 BW=5MHz Channel=23330 RB Size=1 Position=#0

NVNT



Band14 QPSK BW=10MHz Channel=23330 RB Size=1 Position=#0

NVNT

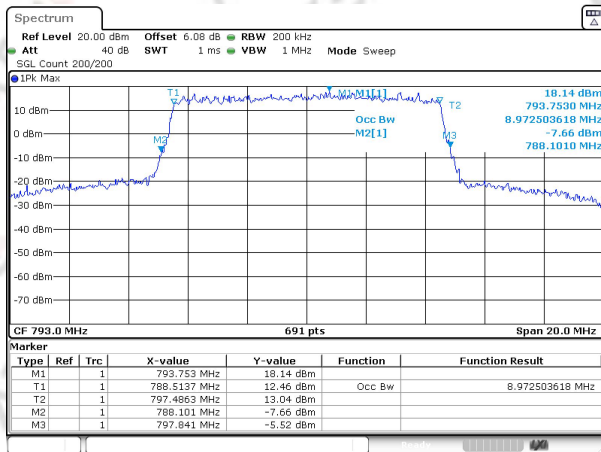


Band14 QPSK BW=5MHz Channel=23330 RB Size=1 Position=#0

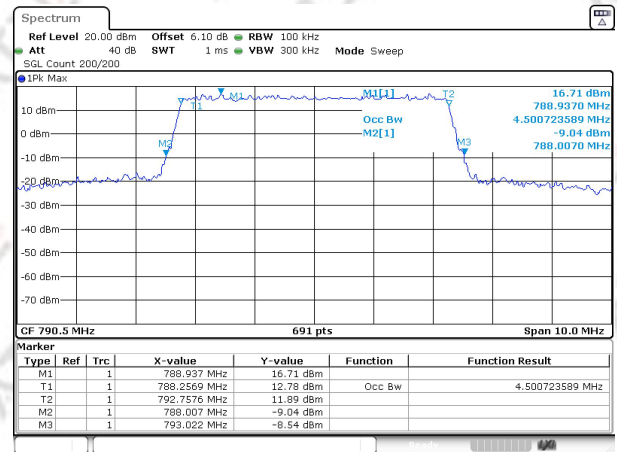
NVNT

Occupied bandwidth

Condition	Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
NVNT	Band14	5	23305	25	#0	QPSK	4.515	4.971	PASS
NVNT	Band14	5	23305	25	#0	QAM16	4.501	5.014	PASS
NVNT	Band14	5	23330	25	#0	QPSK	4.515	4.957	PASS
NVNT	Band14	5	23330	25	#0	QAM16	4.486	4.957	PASS
NVNT	Band14	5	23355	25	#0	QPSK	4.501	4.942	PASS
NVNT	Band14	5	23355	25	#0	QAM16	4.501	4.942	PASS
NVNT	Band14	10	23330	50	#0	QPSK	8.973	9.884	PASS
NVNT	Band14	10	23330	50	#0	QAM16	8.973	9.739	PASS



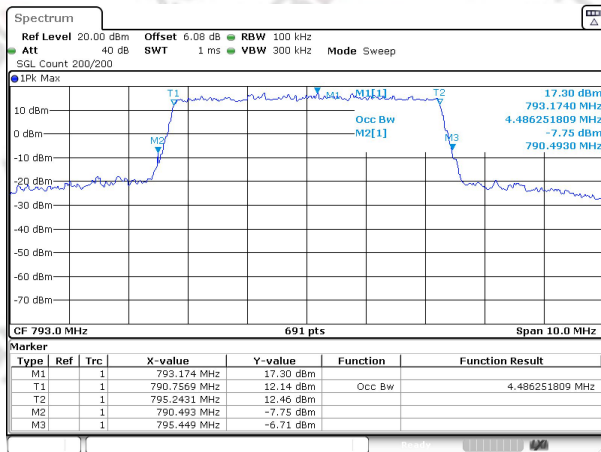
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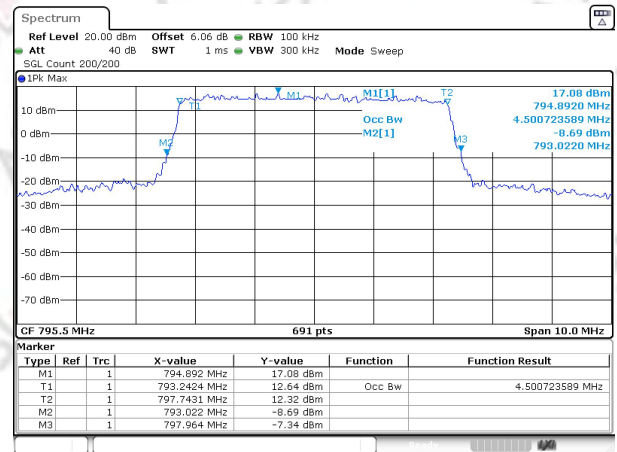
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Band14 QAM16 BW=10MHz Channel=23330 RB Size=50 Position=#0

Band14 QAM16 BW=5MHz Channel=23305 RB Size=25 Position=#0



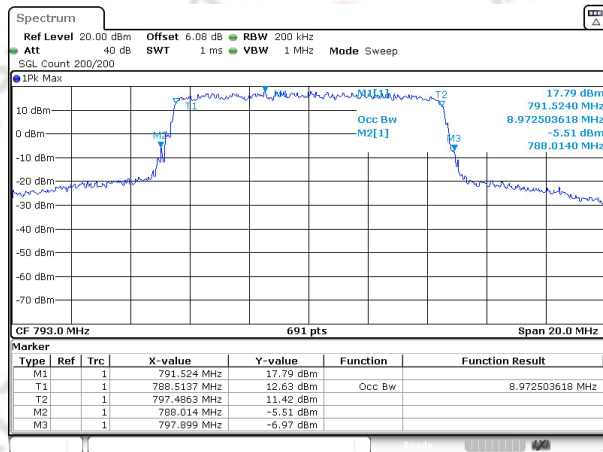
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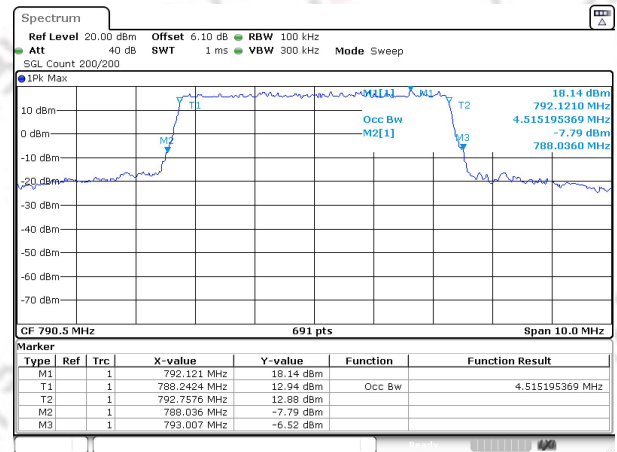
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Band14 QAM16 BW=5MHz Channel=23330 RB Size=25 Position=#0

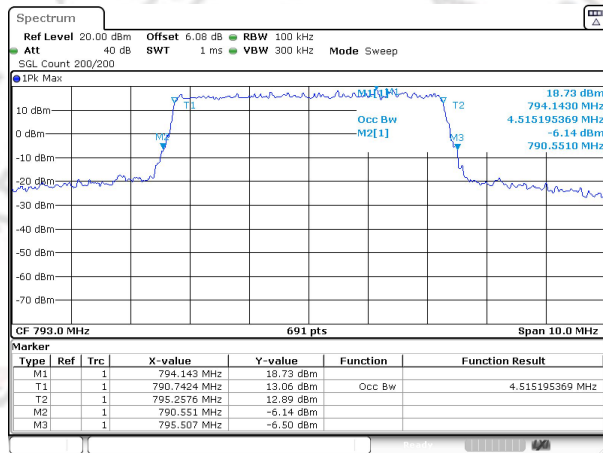
Band14 QAM16 BW=5MHz Channel=23355 RB Size=25 Position=#0



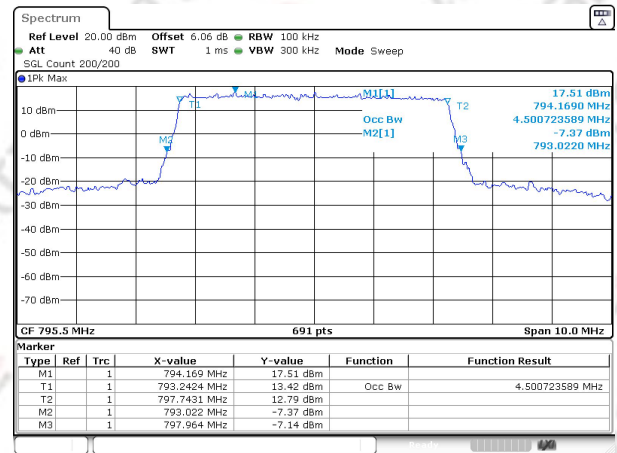
Band14 QPSK BW=10MHz Channel=23330 RB Size=50 Position=#0



Band14 QPSK BW=5MHz Channel=23305 RB Size=25 Position=#0



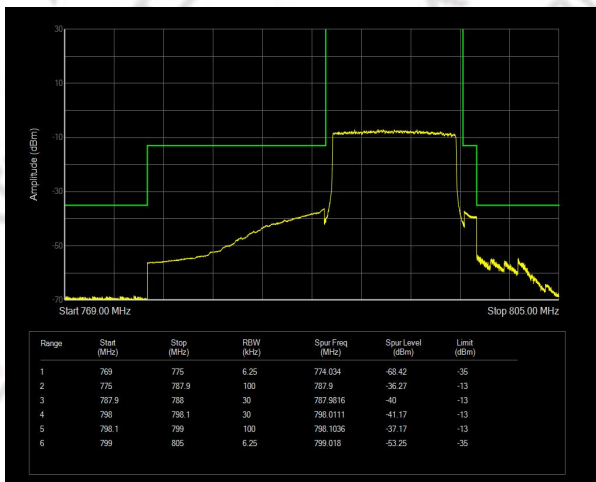
Band14 QPSK BW=5MHz Channel=23330 RB Size=25 Position=#0



Band14 QPSK BW=5MHz Channel=23355 RB Size=25 Position=#0

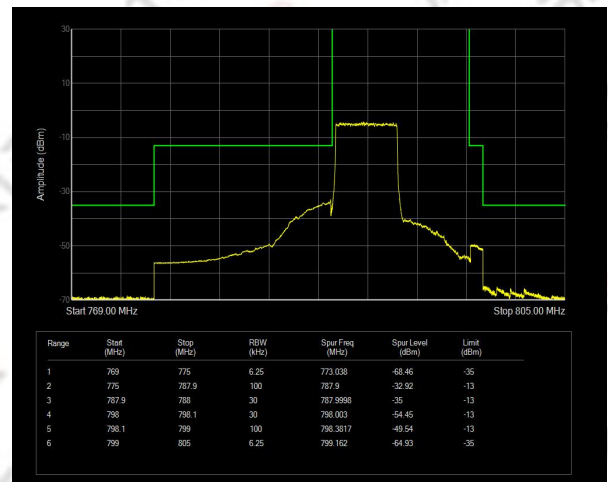
Band edge

Condition	Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
NVNT	Band14	5	23305	25	#0	QPSK	787.89	-31.38	-13	PASS
NVNT	Band14	5	23305	25	#0	QAM16	787.90	-32.92	-13	PASS
NVNT	Band14	5	23355	25	#0	QPSK	799.06	-50.71	-35	PASS
NVNT	Band14	5	23355	25	#0	QAM16	799.08	-51.82	-35	PASS
NVNT	Band14	10	23330	50	#0	QPSK	799.01	-52.33	-35	PASS
NVNT	Band14	10	23330	50	#0	QAM16	799.02	-53.25	-35	PASS



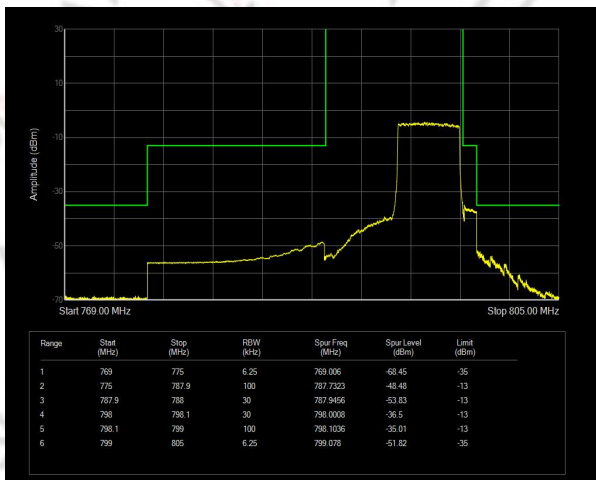
Band14 QAM16 BW=10MHz Channel=23330 RB Size=50 Position=#0

NVNT



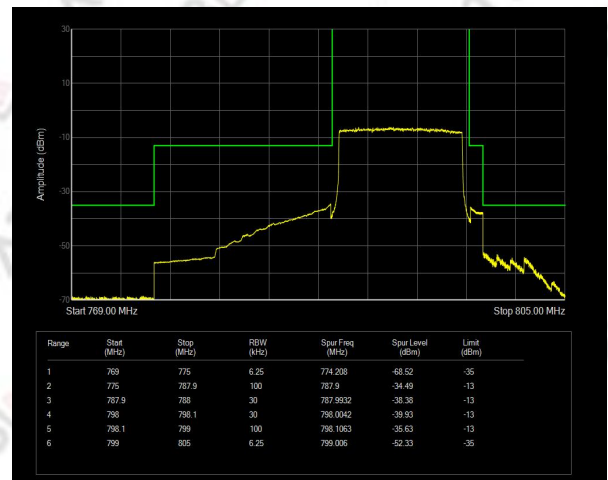
Band14 QAM16 BW=5MHz Channel=23305 RB Size=25 Position=#0

NVNT



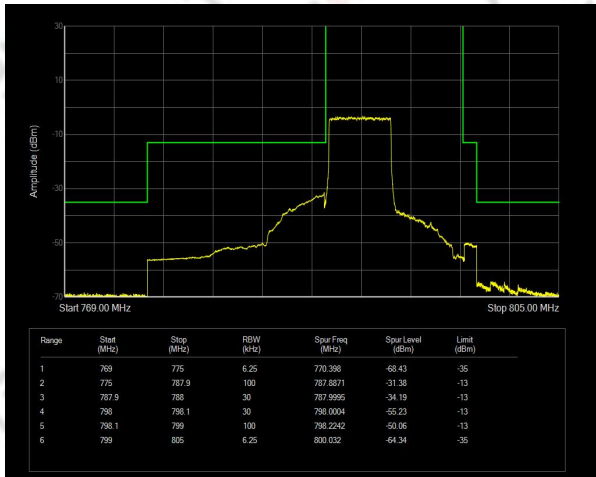
Band14 QAM16 BW=5MHz Channel=23355 RB Size=25 Position=#0

NVNT



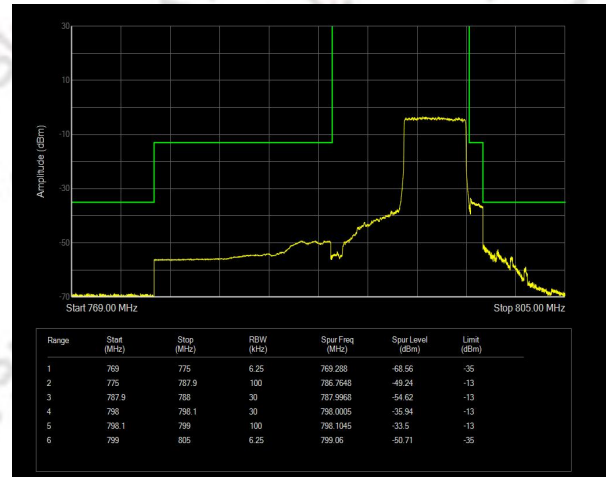
Band14 QPSK BW=10MHz Channel=23330 RB Size=50 Position=#0

NVNT



Band14 QPSK BW=5MHz Channel=23305 RB Size=25 Position=#0

NVNT

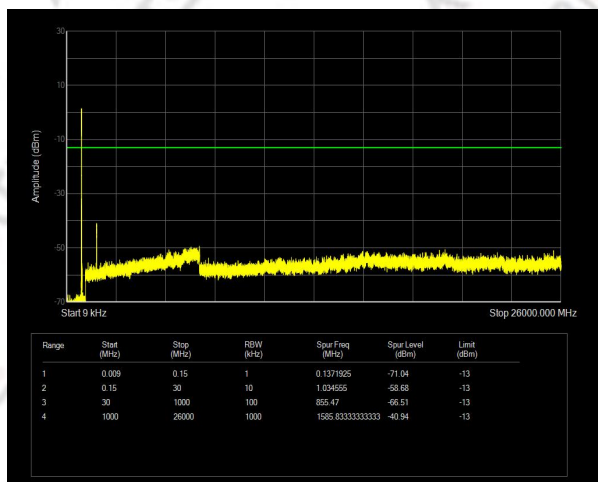


Band14 QPSK BW=5MHz Channel=23355 RB Size=25 Position=#0

NVNT

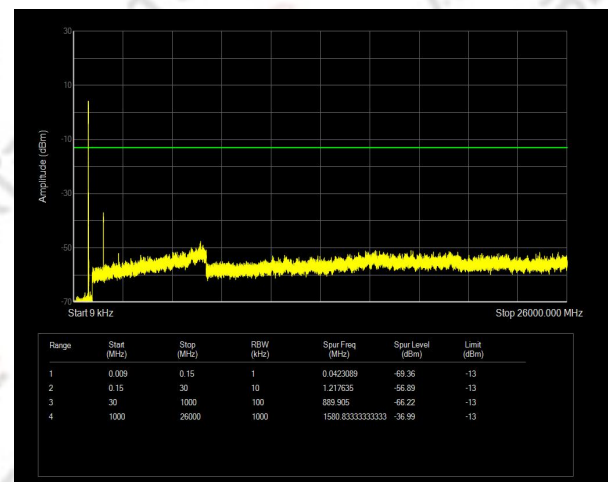
Out-of-band emissions

Condition	Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
NVNT	Band14	5	23305	25	#0	QPSK	1580.83	-37.94	-13	PASS
NVNT	Band14	5	23305	25	#0	QAM16	1580.83	-36.99	-13	PASS
NVNT	Band14	5	23355	25	#0	QPSK	1588.33	-38.30	-13	PASS
NVNT	Band14	5	23355	25	#0	QAM16	1590.00	-37.72	-13	PASS
NVNT	Band14	10	23330	50	#0	QPSK	1586.67	-41.20	-13	PASS
NVNT	Band14	10	23330	50	#0	QAM16	1585.83	-40.94	-13	PASS



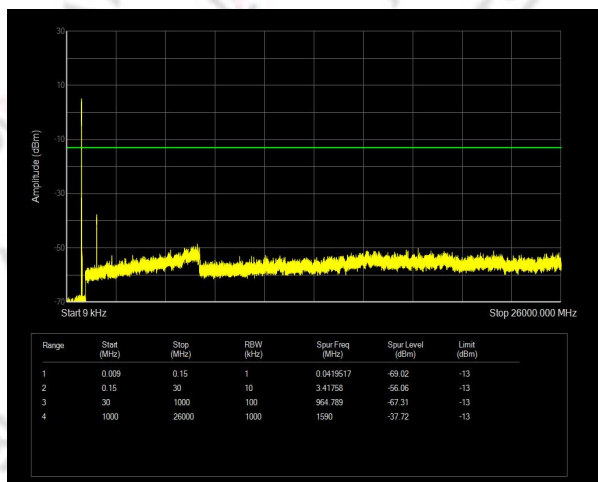
Band14 QAM16 BW=10MHz Channel=23330 RB Size=50 Position=#0

NVNT



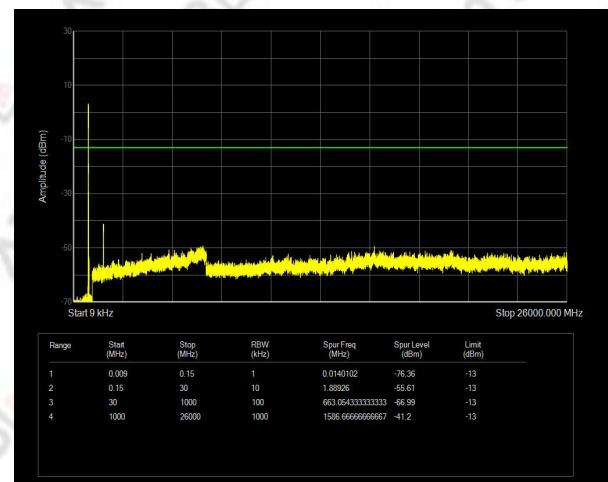
Band14 QAM16 BW=5MHz Channel=23305 RB Size=25 Position=#0

NVNT



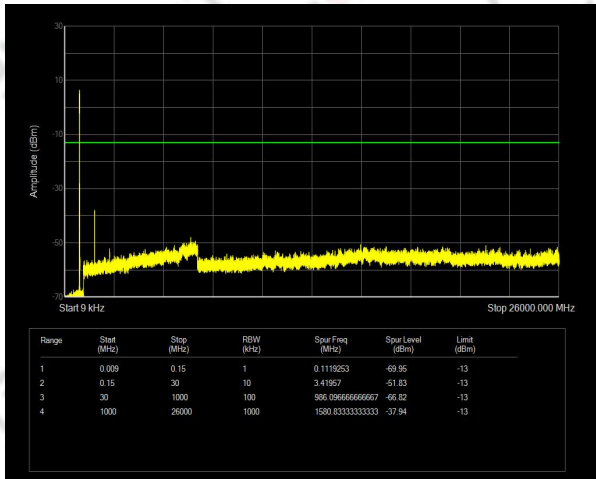
Band14 QAM16 BW=5MHz Channel=23355 RB Size=25 Position=#0

NVNT



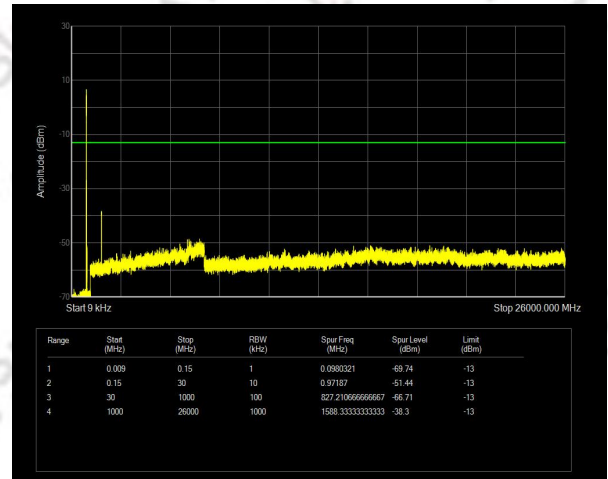
Band14 QPSK BW=10MHz Channel=23330 RB Size=50 Position=#0

NVNT



Band14 QPSK BW=5MHz Channel=23305 RB Size=25 Position=#0

NVNT



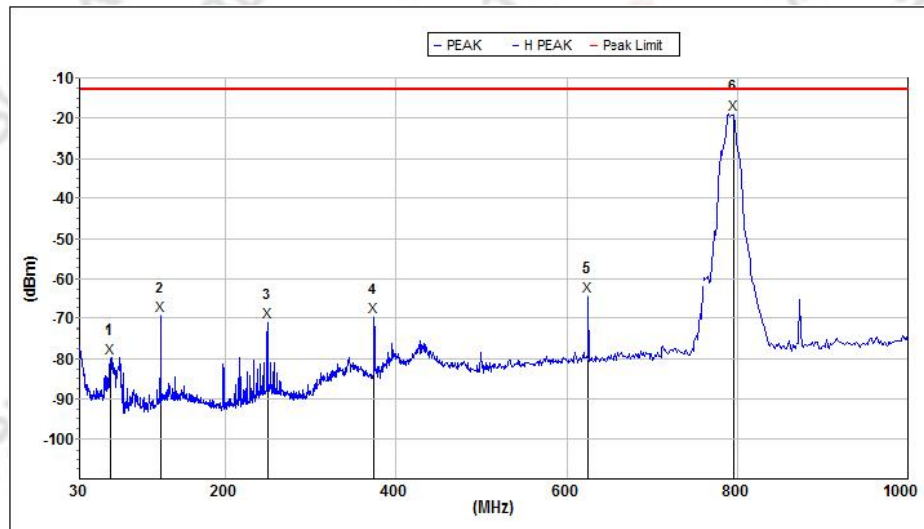
Band14 QPSK BW=5MHz Channel=23355 RB Size=25 Position=#0

NVNT

Radiated Test Data

For 30 MHz ~ 1 GHz

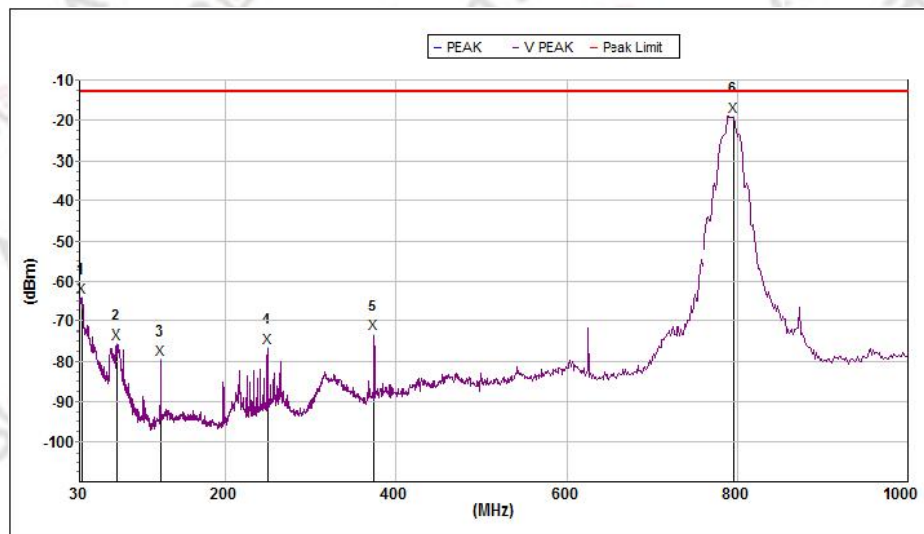
Mode:QPSK / Middle Channel / Horizontal



Mk.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	66.266	-79.7	-13.0	66.7	-22.2	40.4	1.2	H
2	125.007	-69.3	-13.0	56.3	-21.9	40.3	1.4	H
3	249.863	-70.8	-13.0	57.8	-20.6	40.1	1.9	H
4	374.623	-69.5	-13.0	56.5	-16.2	39.2	2.2	H
5	625.078	-64.4	-13.0	51.4	-10.3	39.4	2.9	H
6	796.183	-18.8	-13.0	5.8	-7.2	38.9	3.3	H

Note: Point 6 serves as the primary frequency signal

Mode:QPSK / Middle Channel / Vertical

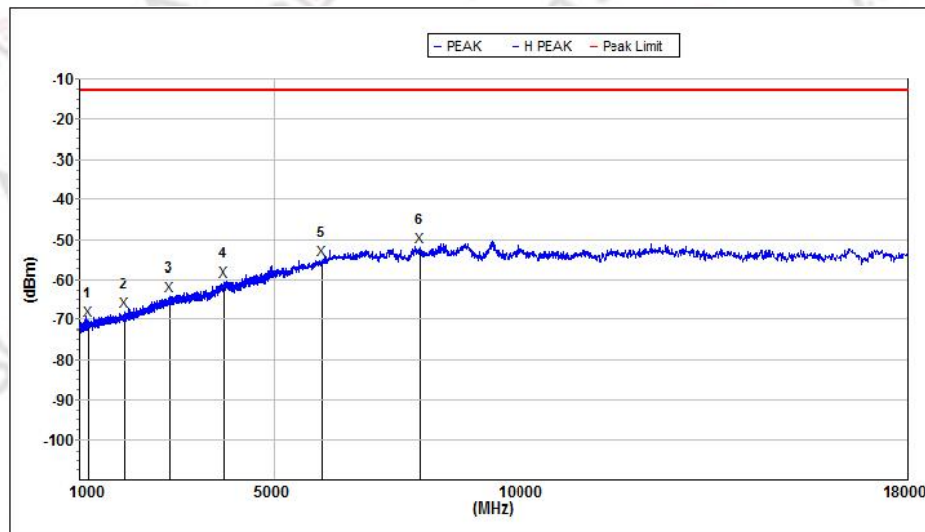


Mk.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	32.406	-63.9	-13.0	50.9	-19.6	39.2	1.1	V
2	72.719	-75.6	-13.0	62.6	-23.2	40.5	1.3	V
3	125.007	-79.4	-13.0	66.4	-21.9	40.3	1.4	V
4	249.863	-76.3	-13.0	63.3	-20.6	40.1	1.9	V
5	374.623	-73.1	-13.0	60.1	-16.2	39.2	2.2	V
6	796.183	-18.8	-13.0	5.8	-7.2	38.9	3.3	V

Note: Point 6 serves as the primary frequency signal

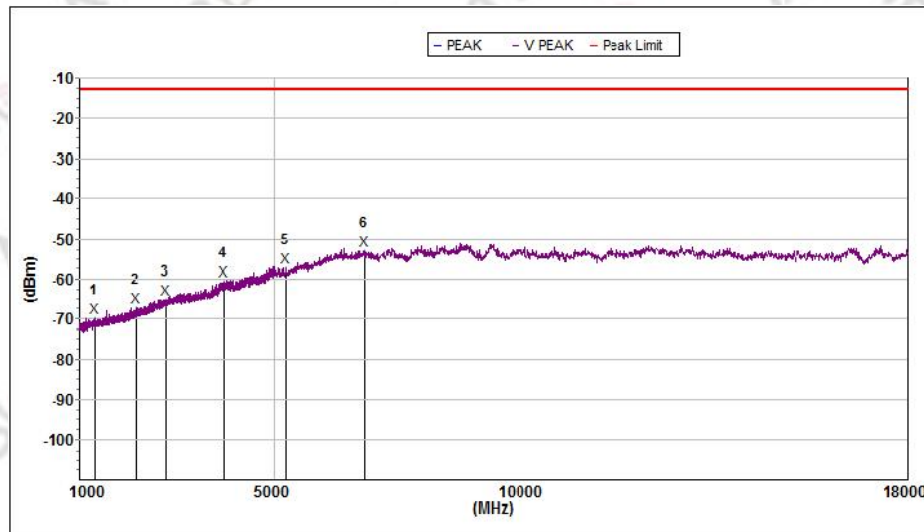
For 1 GHz ~ 18 GHz

Mode:QPSK / Middle Channel / Horizontal



Mk.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1184.991	-70.2	-13.0	57.2	-24.0	53.6	4.0	H
2	1903.676	-67.8	-13.0	54.8	-23.0	53.8	5.0	H
3	2845.899	-64.0	-13.0	51.0	-19.0	54.1	6.3	H
4	3951.925	-60.4	-13.0	47.4	-14.6	53.3	7.9	H
5	5974.424	-55.1	-13.0	42.1	-7.7	51.5	9.8	H
6	7975.213	-51.7	-13.0	38.7	-4.2	52.0	10.9	H

Mode:QPSK / Middle Channel / Vertical



Mk.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1321.870	-69.7	-13.0	56.7	-23.7	53.5	4.2	V
2	2150.570	-67.0	-13.0	54.0	-21.9	54.0	5.3	V
3	2780.993	-65.0	-13.0	52.0	-19.3	54.1	6.2	V
4	3960.008	-60.2	-13.0	47.2	-14.5	53.2	7.9	V
5	5232.615	-56.9	-13.0	43.9	-10.4	52.4	9.0	V
6	6843.277	-52.7	-13.0	39.7	-5.0	51.7	10.9	V

*****END OF THE APPENDIX*****