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Appendix B.9

LTE Band 14



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	23.27	22.3	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	23.38	22.41	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	23.22	22.25	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	22.38	21.41	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	23.25	22.28	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	23.26	22.29	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	23.26	22.29	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	22.35	21.38	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	23.23	22.26	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	23.27	22.3	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	23.21	22.24	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	22.29	21.32	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	22.68	21.71	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	22.62	21.65	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	22.62	21.65	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	21.39	20.42	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	22.65	21.68	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	22.72	21.75	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	22.62	21.65	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	21.35	20.38	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	22.54	21.57	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	22.54	21.57	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	22.46	21.49	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	21.31	20.34	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#0	21.5	20.53	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#12	21.52	20.55	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#24	21.49	20.52	34.77	PASS
Band14	5MHz	64QAM	23305	25RB#0	20.46	19.49	34.77	PASS



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Band14	5MHz	64QAM	23330	1RB#0	21.57	20.6	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#12	21.6	20.63	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#24	21.52	20.55	34.77	PASS
Band14	5MHz	64QAM	23330	25RB#0	20.37	19.4	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#0	21.43	20.46	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#12	21.5	20.53	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#24	21.42	20.45	34.77	PASS
Band14	5MHz	64QAM	23355	25RB#0	20.26	19.29	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	23.38	22.41	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	23.25	22.28	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	23.29	22.32	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	22.38	21.41	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	22.7	21.73	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	22.52	21.55	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	22.55	21.58	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	21.47	20.5	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#0	21.59	20.62	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#24	21.41	20.44	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#49	21.39	20.42	34.77	PASS
Band14	10MHz	64QAM	23330	50RB#0	20.5	19.53	34.77	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

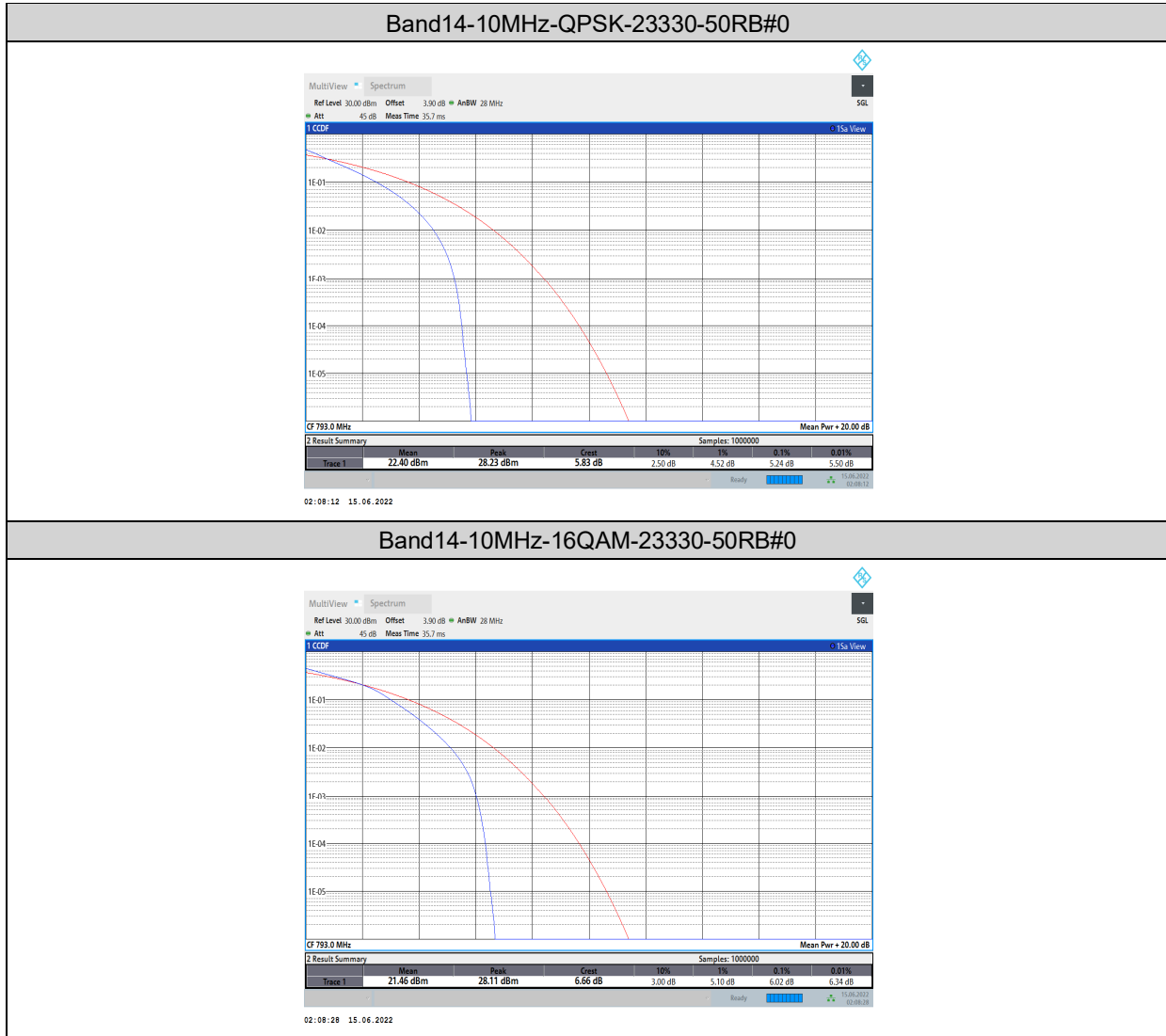
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	5.24	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	6.02	13	PASS
Band14	10MHz	64QAM	23330	50RB#0	6.58	13	PASS



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Test Graphs



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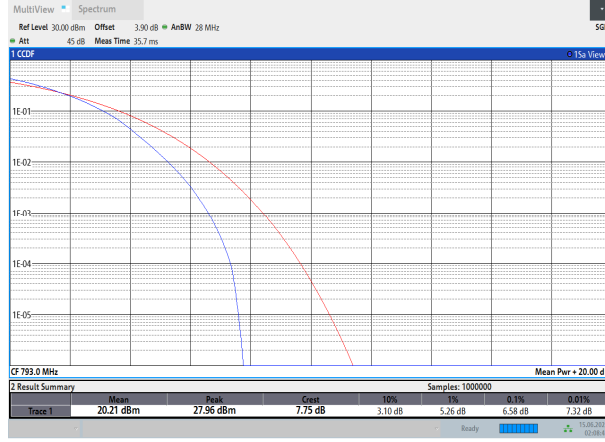


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Band14-10MHz-64QAM-23330-50RB#0



02:08:45 15.06.2022



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Modulation Characteristics

Test Result

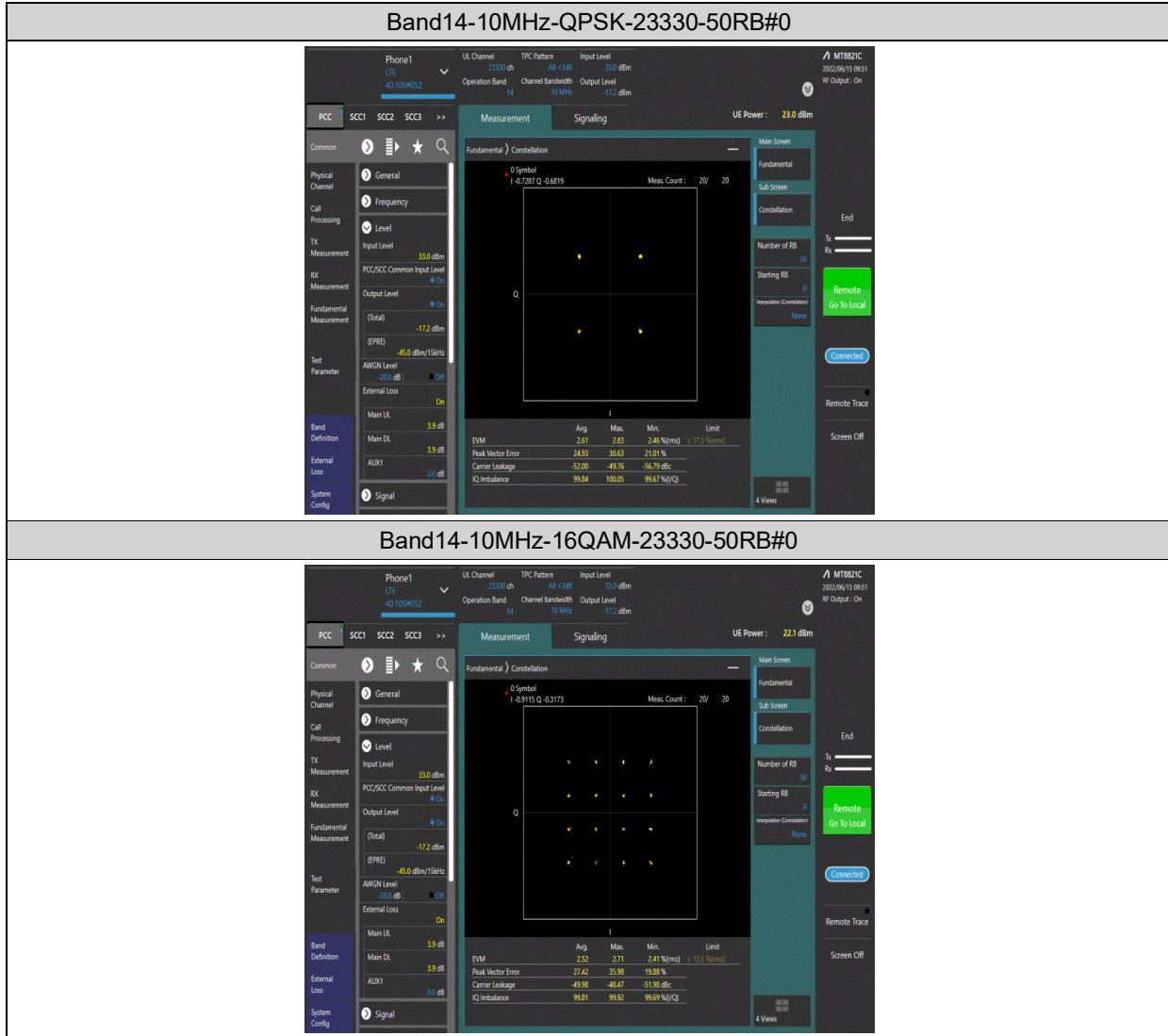
Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band14	10MHz	QPSK	23330	50RB#0	PASS	PASS
Band14	10MHz	16QAM	23330	50RB#0	PASS	PASS
Band14	10MHz	64QAM	23330	50RB#0	PASS	PASS



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Test Graphs



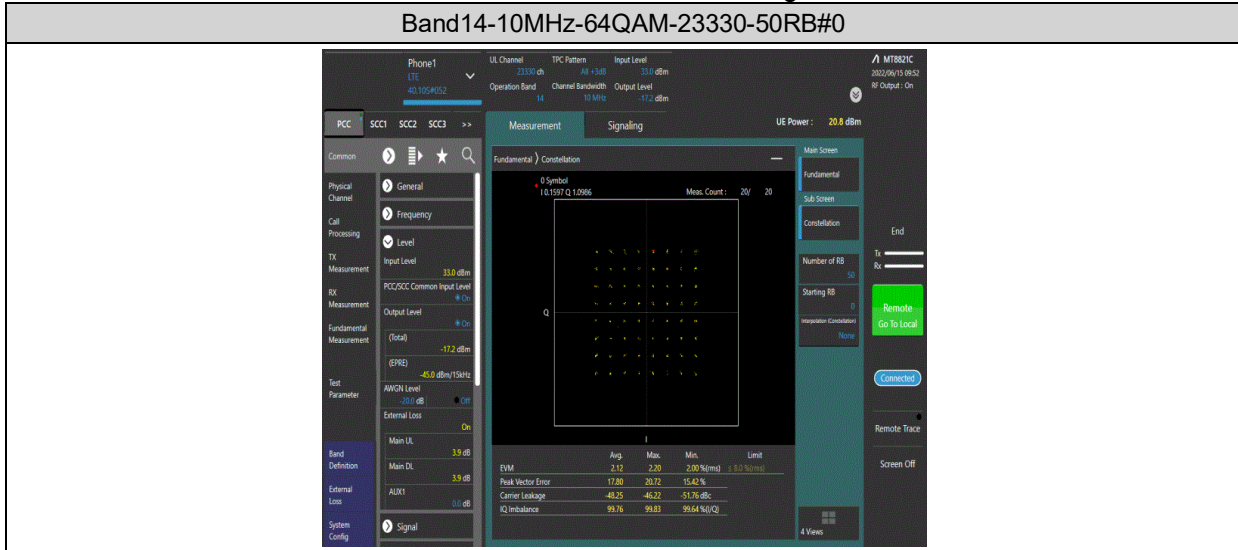
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Band14-10MHz-64QAM-23330-50RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

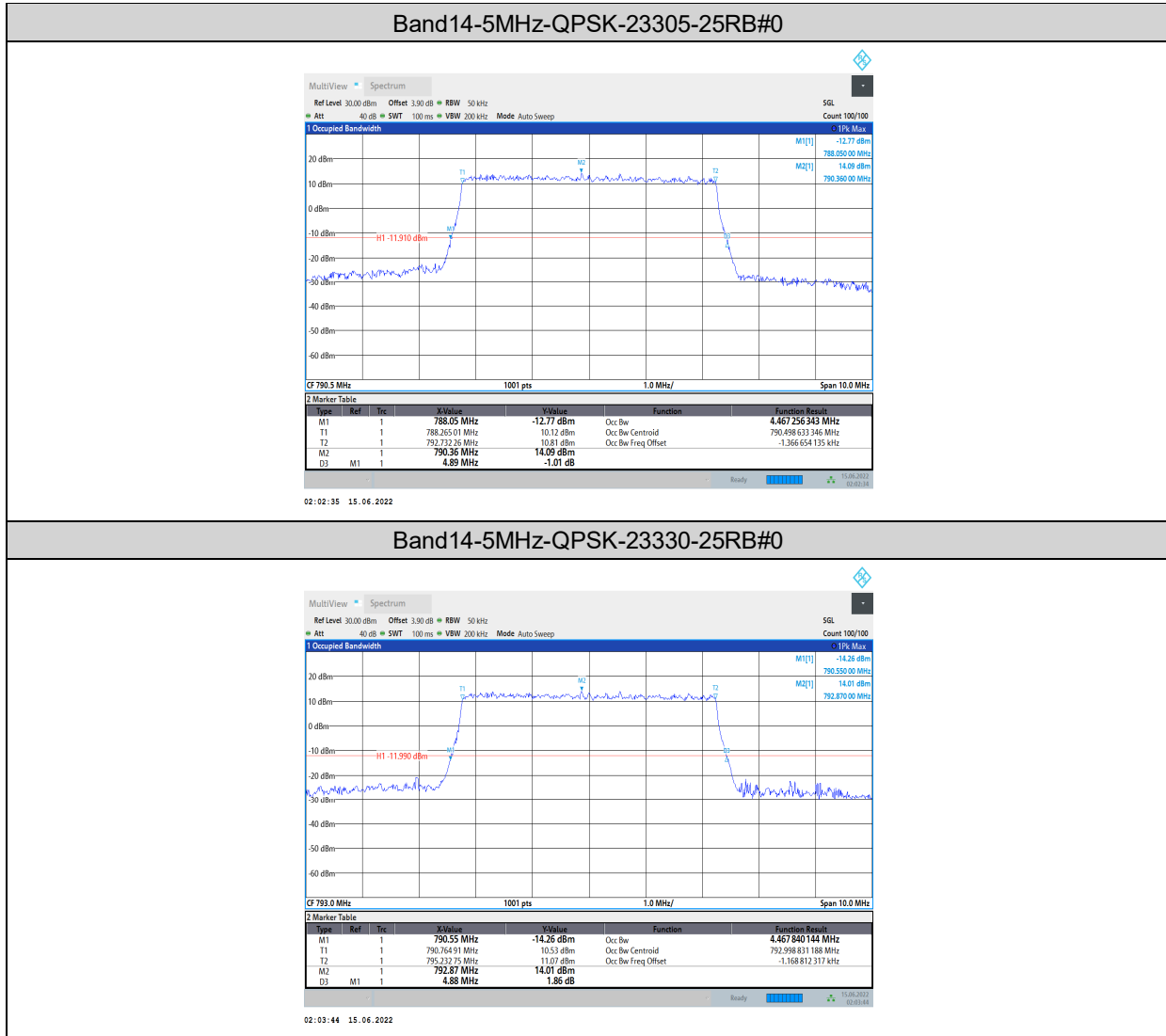
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	4.467	4.89	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.468	4.88	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.471	4.87	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.464	4.90	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.467	4.90	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.468	4.89	PASS
Band14	5MHz	64QAM	23305	25RB#0	4.475	4.91	PASS
Band14	5MHz	64QAM	23330	25RB#0	4.477	4.90	PASS
Band14	5MHz	64QAM	23355	25RB#0	4.482	4.89	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.935	9.70	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.937	9.63	PASS
Band14	10MHz	64QAM	23330	50RB#0	8.939	9.63	PASS



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Test Graphs



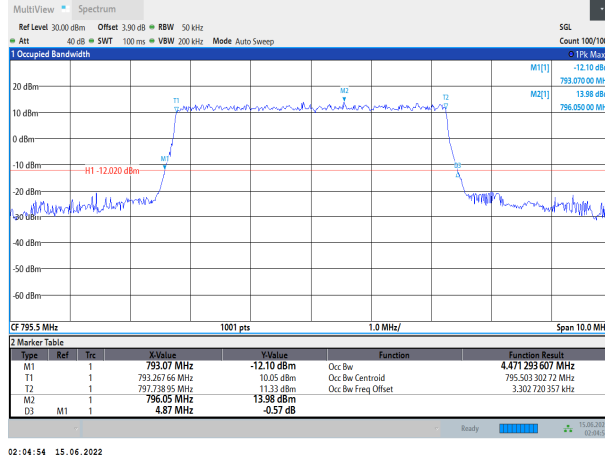
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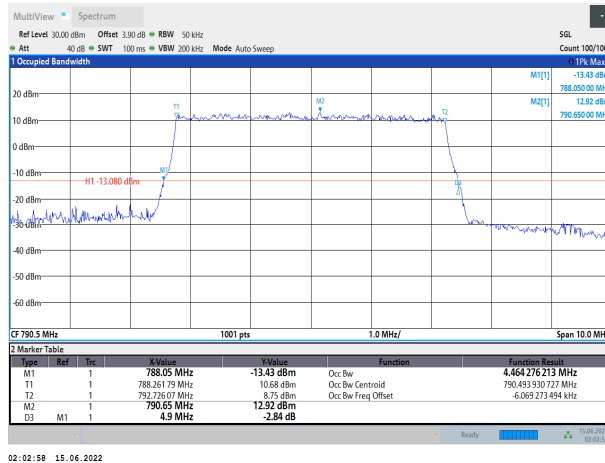
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Band14-5MHz-QPSK-23355-25RB#0



Band14-5MHz-16QAM-23305-25RB#0

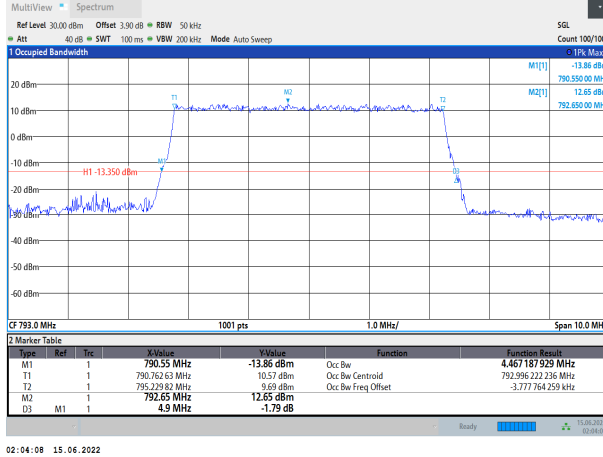


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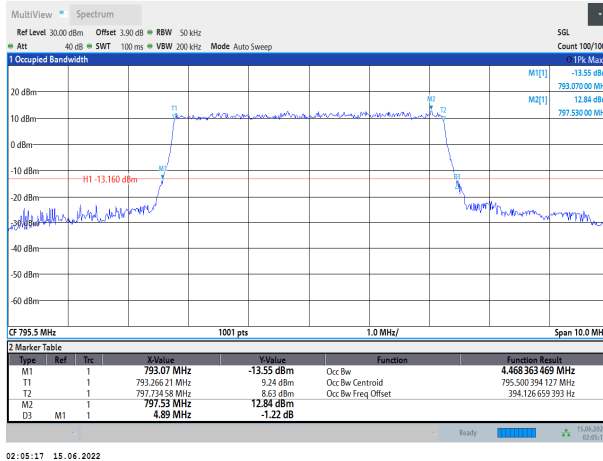
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Band14-5MHz-16QAM-23330-25RB#0



Band14-5MHz-16QAM-23355-25RB#0

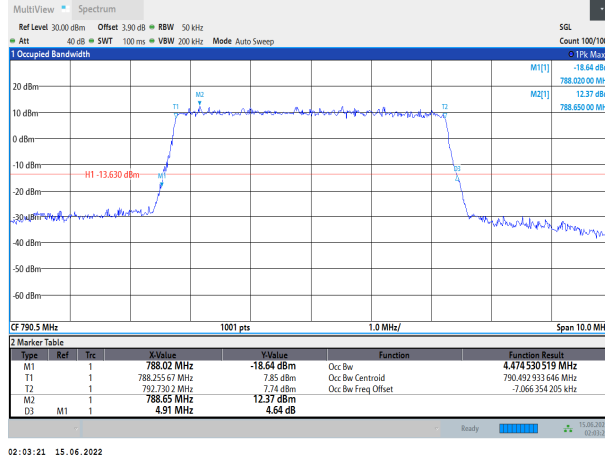


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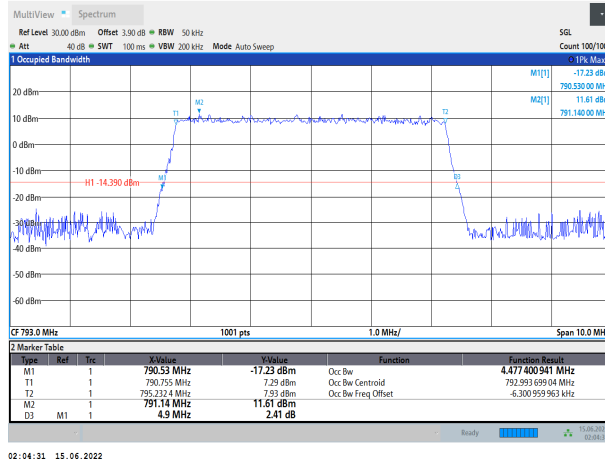
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Band14-5MHz-64QAM-23330-25RB#0



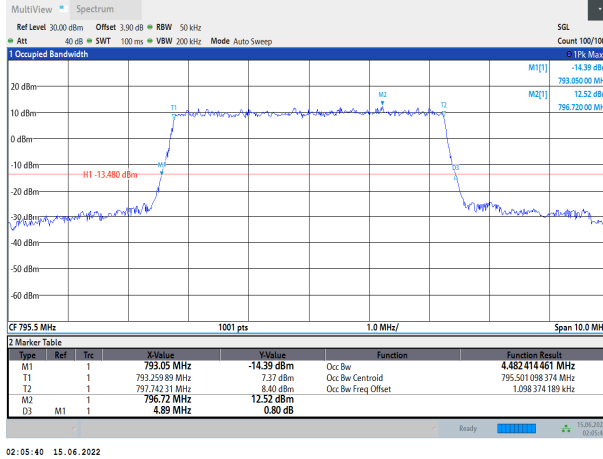
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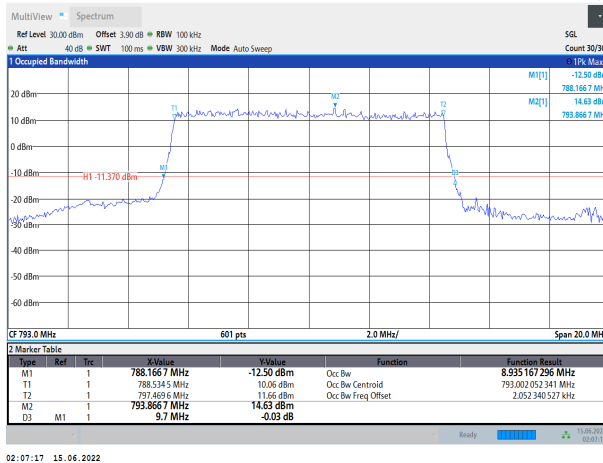
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Band14-5MHz-64QAM-23355-25RB#0



Band14-10MHz-QPSK-23330-50RB#0

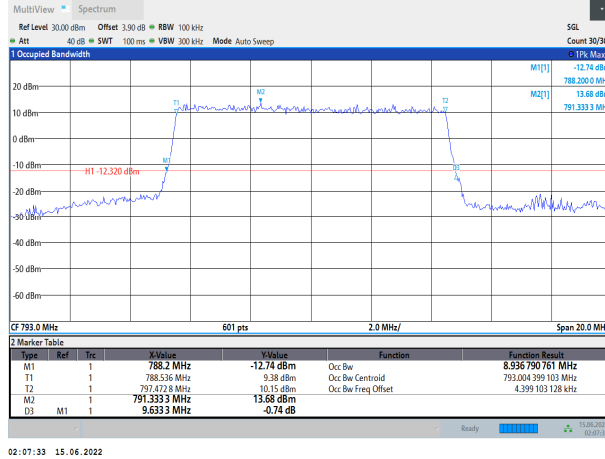


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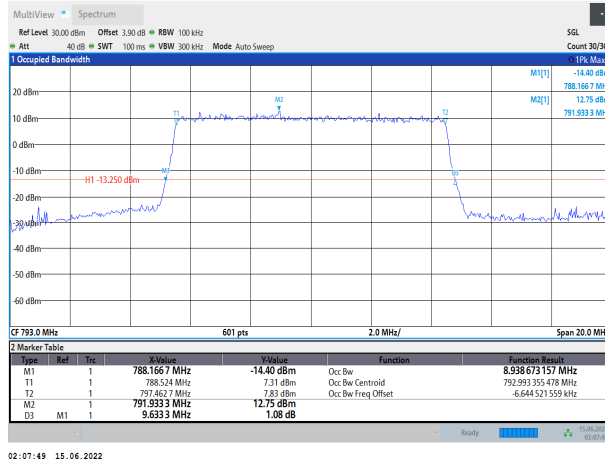
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Band14-10MHz-64QAM-23330-50RB#0

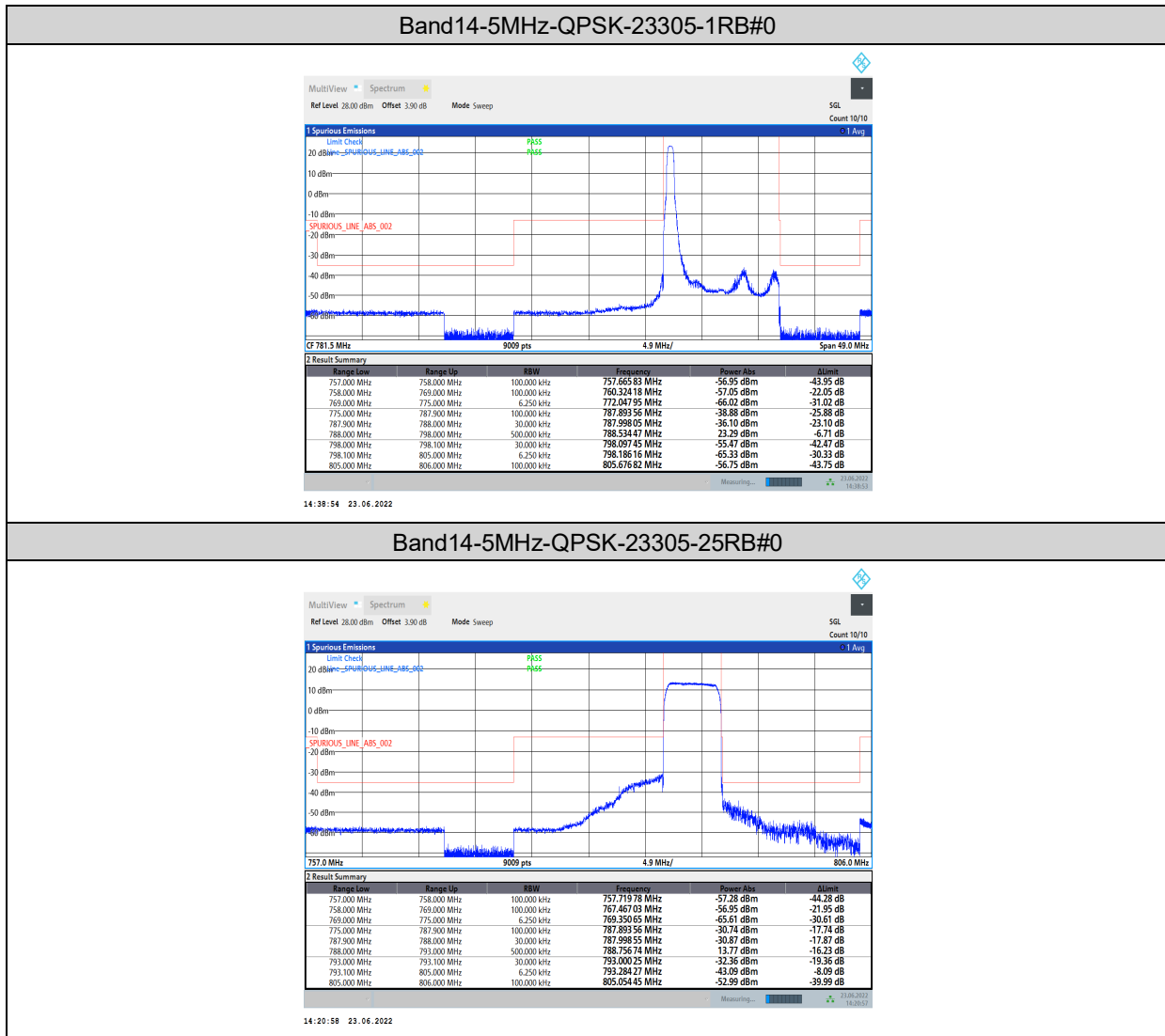


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Band Edge

Test Graphs

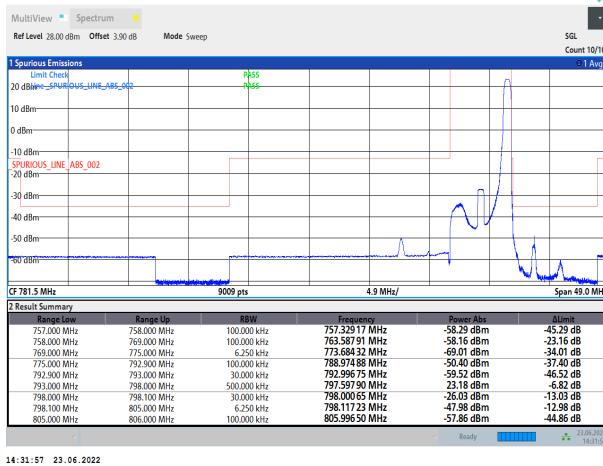


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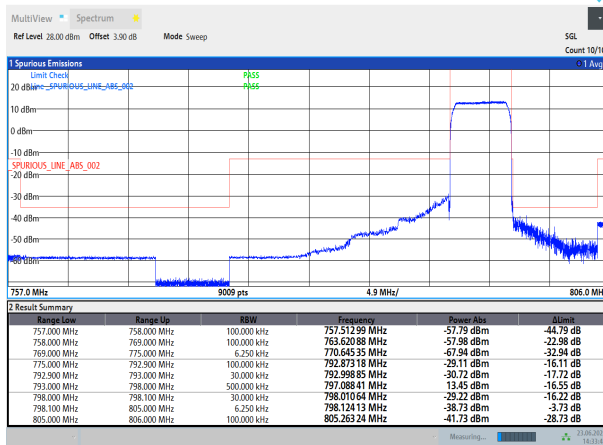
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Band14-5MHz-QPSK-23355-1RB#24



14:31:57 23.06.2022

Band14-5MHz-QPSK-23355-25RB#0



14:33:49 23.06.2022

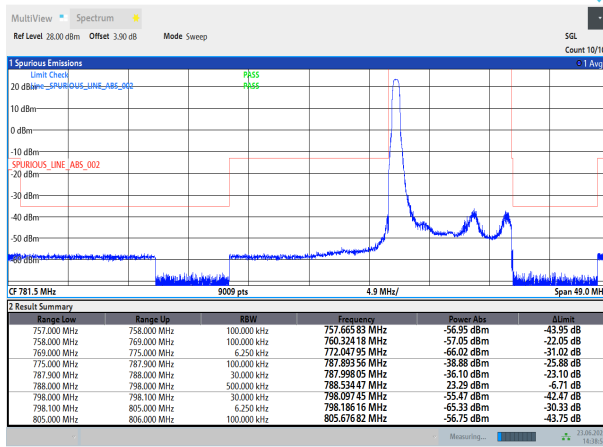


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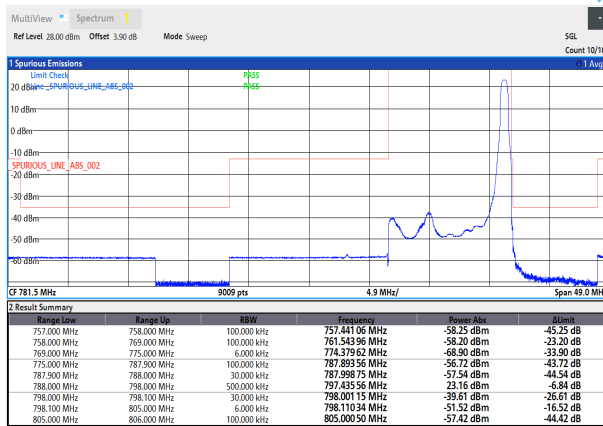
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Band14-10MHz-QPSK-23330-1RB#0



14:38:54 23.06.2022

Band14-10MHz-QPSK-23330-1RB#49



14:42:06 23.06.2022

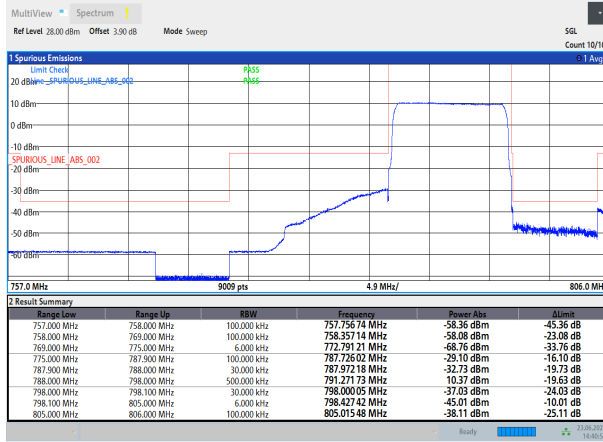


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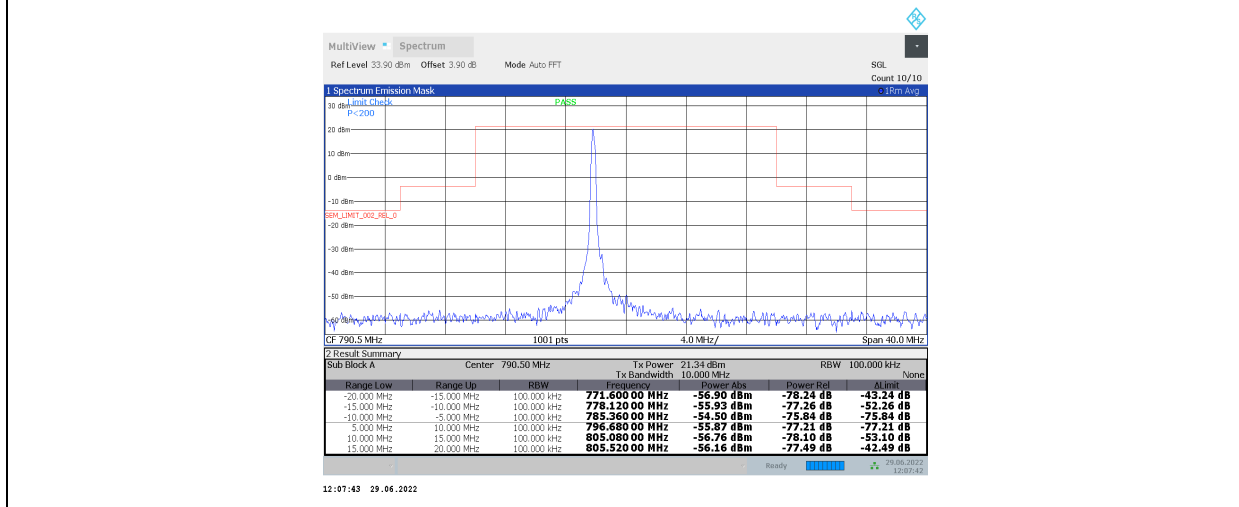
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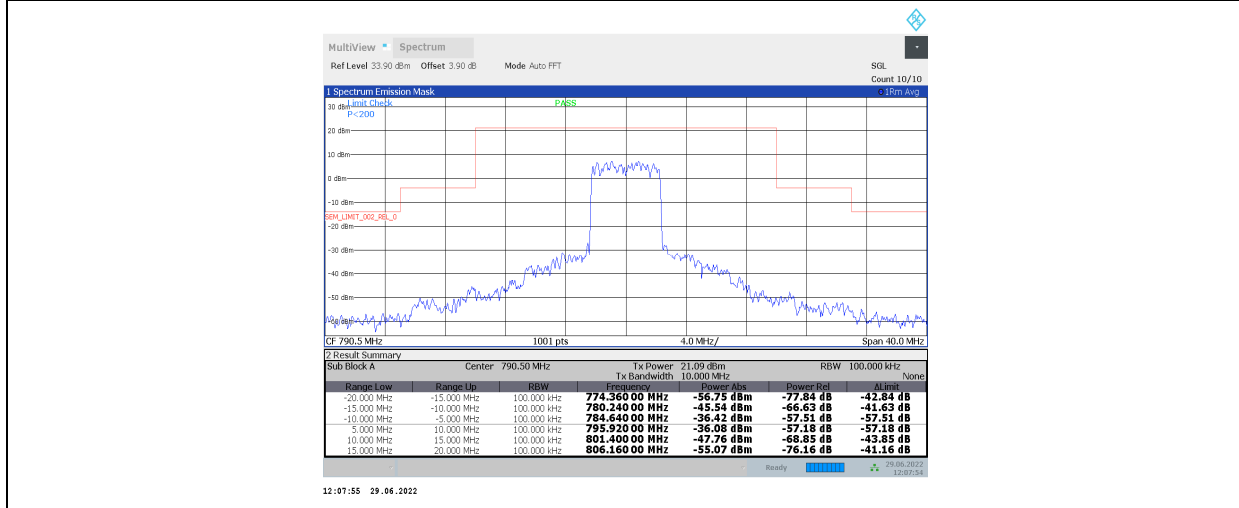
Emission Mask

Test Graphs

Band14-5MHz-QPSK-23305-1RB#0



Band14-5MHz-QPSK-23305-25RB#0

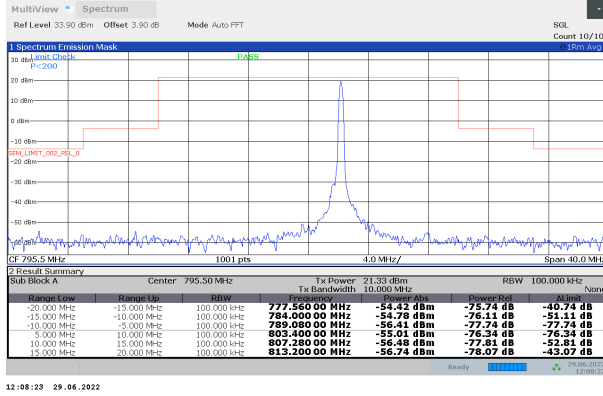


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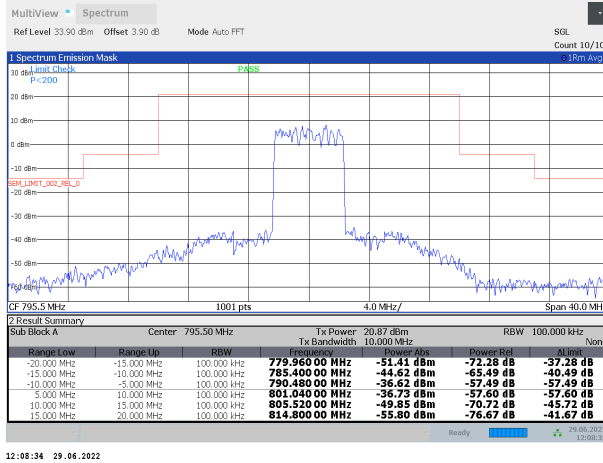
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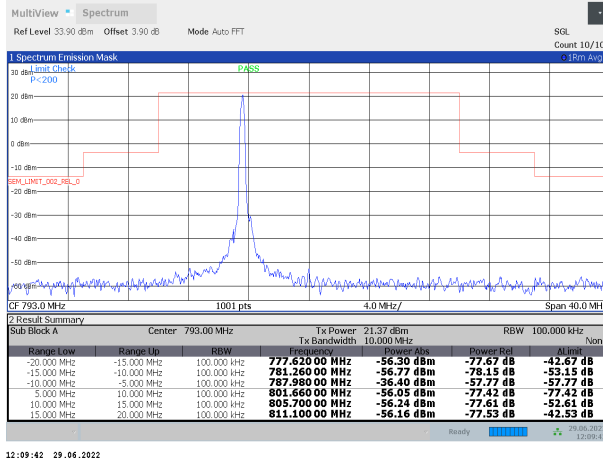
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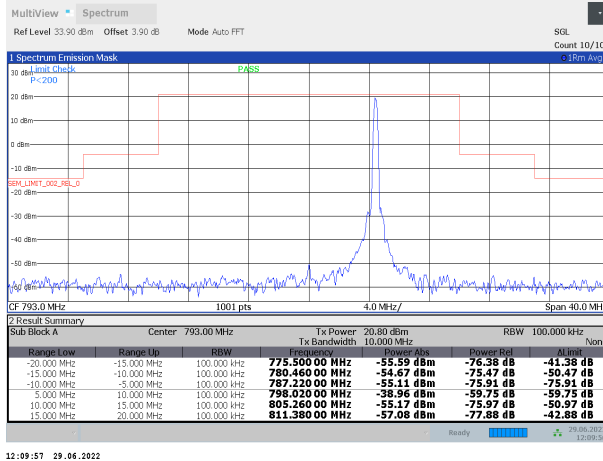
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Band14-10MHz-QPSK-23330-1RB#0



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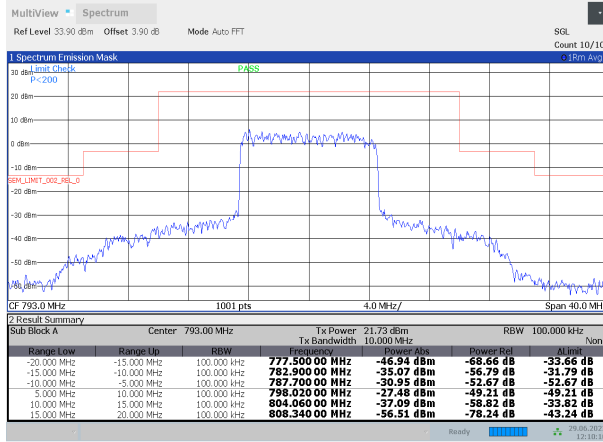


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Band14-10MHz-QPSK-23330-50RB#0



12:10:10 29.06.2022



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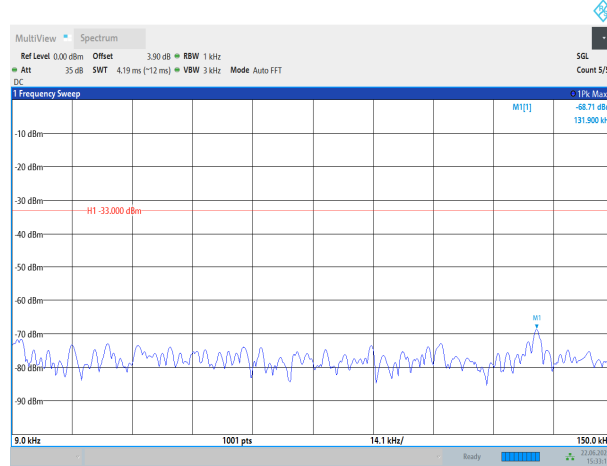
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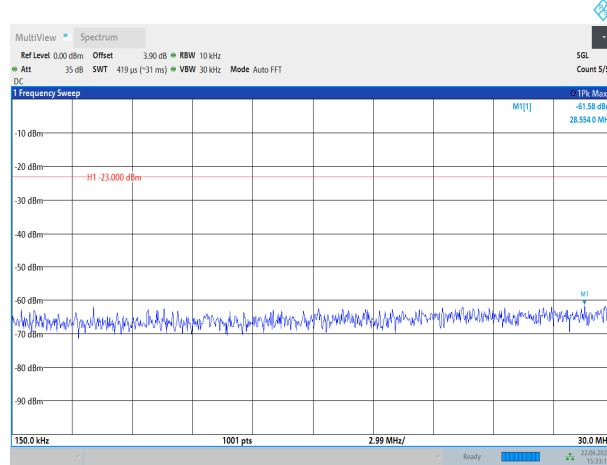
Conducted Spurious Emission

Test Graphs

Band14-10MHz-QPSK-23330-1RB#0-Range1:0.009~0.15MHz



Band14-10MHz-QPSK-23330-1RB#0-Range2:0.15~30MHz



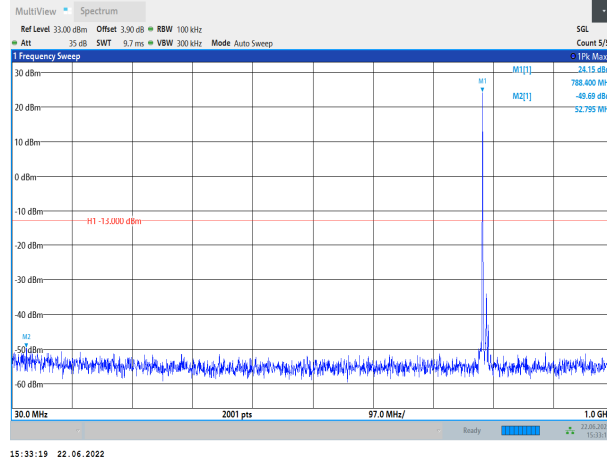
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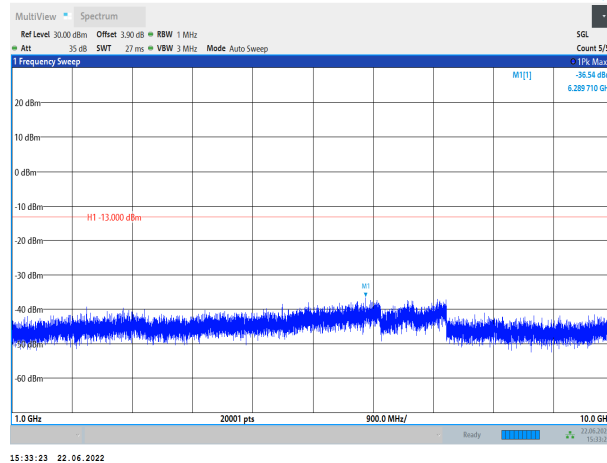
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Band14-10MHz-QPSK-23330-1RB#0-Range3:30~1000MHz



Band14-10MHz-QPSK-23330-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 14_10M_ TM1

Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1577.1800	52.95	-118.17	-65.22	-40.00	25.22	152	360	Horizontal
2	2375.4286	56.76	-115.29	-58.53	-13.00	45.53	300	172	Horizontal
3	3154.3600	50.33	-112.15	-61.82	-13.00	48.82	269	26	Horizontal
4	3942.9500	50.01	-110.81	-60.80	-13.00	47.80	245	188	Horizontal
5	4731.5400	48.82	-108.90	-60.08	-13.00	47.08	289	1	Horizontal
6	5520.1300	48.08	-107.49	-59.41	-13.00	46.41	214	356	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1577.1800	52.48	-118.17	-65.69	-40.00	25.69	286	317	Vertical
2	2374.8571	59.28	-115.30	-56.02	-13.00	43.02	300	132	Vertical
3	3154.3600	49.53	-112.15	-62.62	-13.00	49.62	245	357	Vertical
4	3942.9500	50.08	-110.81	-60.73	-13.00	47.73	185	359	Vertical
5	4731.5400	49.27	-108.90	-59.63	-13.00	46.63	176	294	Vertical
6	5520.1300	49.27	-107.49	-58.22	-13.00	45.22	156	359	Vertical



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Test Band = LTE Band 14_5M_TM1

Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1579.6800	52.81	-118.17	-65.36	-40.00	25.36	295	319	Horizontal
2	2375.4286	56.47	-115.29	-58.82	-13.00	45.82	300	171	Horizontal
3	3153.3600	50.19	-112.16	-61.97	-13.00	48.97	241	331	Horizontal
4	3941.7000	50.32	-110.81	-60.49	-13.00	47.49	185	359	Horizontal
5	4730.0400	49.18	-108.90	-59.72	-13.00	46.72	137	105	Horizontal
6	5518.3800	48.21	-107.49	-59.28	-13.00	46.28	148	214	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1579.6800	52.14	-118.17	-66.03	-40.00	26.03	247	332	Vertical
2	2374.2857	59.75	-115.30	-55.55	-13.00	42.55	300	118	Vertical
3	3153.3600	50.48	-112.16	-61.68	-13.00	48.68	285	29	Vertical
4	3941.7000	49.69	-110.81	-61.12	-13.00	48.12	233	0	Vertical
5	4730.0400	48.88	-108.90	-60.02	-13.00	47.02	175	351	Vertical
6	5518.3800	48.69	-107.49	-58.80	-13.00	45.80	158	1	Vertical



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Test Band = LTE Band 14_5M_TM1

Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1581.6800	52.63	-118.17	-65.54	-40.00	25.54	275	3	Horizontal
2	2375.4286	57.34	-115.29	-57.95	-13.00	44.95	300	184	Horizontal
3	3163.3600	51.18	-112.10	-60.92	-13.00	47.92	247	320	Horizontal
4	3954.2000	49.94	-110.78	-60.84	-13.00	47.84	175	342	Horizontal
5	4745.0400	48.45	-108.84	-60.39	-13.00	47.39	152	201	Horizontal
6	5535.8800	49.20	-107.50	-58.30	-13.00	45.30	174	95	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1581.6800	51.89	-118.17	-66.28	-40.00	26.28	258	215	Vertical
2	2374.8571	58.78	-115.30	-56.52	-13.00	43.52	300	118	Vertical
3	3163.3600	49.67	-112.10	-62.43	-13.00	49.43	274	306	Vertical
4	3954.2000	49.87	-110.78	-60.91	-13.00	47.91	258	343	Vertical
5	4745.0400	48.17	-108.84	-60.67	-13.00	47.67	147	352	Vertical
6	5535.8800	48.70	-107.50	-58.80	-13.00	45.80	157	79	Vertical



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Test Band = LTE Band 14_5M_TM1
 Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1586.6800	53.42	-118.18	-64.76	-40.00	24.76	274	28	Horizontal
2	2374.8571	56.40	-115.30	-58.90	-13.00	45.90	300	185	Horizontal
3	3173.3600	51.72	-112.03	-60.31	-13.00	47.31	236	13	Horizontal
4	3966.7000	49.88	-110.75	-60.87	-13.00	47.87	157	106	Horizontal
5	4760.0400	48.97	-108.76	-59.79	-13.00	46.79	123	52	Horizontal
6	5553.3800	49.55	-107.50	-57.95	-13.00	44.95	175	28	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1586.6800	52.91	-118.18	-65.27	-40.00	25.27	274	347	Vertical
2	2374.8571	59.12	-115.30	-56.18	-13.00	43.18	300	118	Vertical
3	3173.3600	50.66	-112.03	-61.37	-13.00	48.37	254	268	Vertical
4	3966.7000	49.25	-110.75	-61.50	-13.00	48.50	175	0	Vertical
5	4760.0400	48.00	-108.76	-60.76	-13.00	47.76	145	1	Vertical
6	5553.3800	47.95	-107.50	-59.55	-13.00	46.55	174	172	Vertical

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading Level(dBμV) + Factor(dB):

Factor = AF(dB/m) + Cable Factor(dB) - Preamplifier gain(dB)

AF = Antenna Factor(dB/m)

Margin = Limit(dBm) – Level(dBm)



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Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	VL	NT	-0.20	-0.000252	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	0.20	0.000252	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	-1.40	-0.001765	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	-0.20	-0.000252	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	1.10	0.001387	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-10	1.00	0.001261	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	1.40	0.001765	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	-1.50	-0.001892	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	-1.10	-0.001387	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	-0.50	-0.000631	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	0.50	0.000631	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	-1.60	-0.002018	±2.5	PASS

The End



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