Appendix B.12

LTE Band 41

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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	23.04	26.64	33	PASS
Band41	5MHz	QPSK	39675	1RB#12	23.08	26.68	33	PASS
Band41	5MHz	QPSK	39675	1RB#24	23.03	26.63	33	PASS
Band41	5MHz	QPSK	39675	25RB#0	22.12	25.72	33	PASS
Band41	5MHz	QPSK	40620	1RB#0	22.95	26.55	33	PASS
Band41	5MHz	QPSK	40620	1RB#12	22.96	26.56	33	PASS
Band41	5MHz	QPSK	40620	1RB#24	22.97	26.57	33	PASS
Band41	5MHz	QPSK	40620	25RB#0	22.01	25.61	33	PASS
Band41	5MHz	QPSK	41565	1RB#0	22.85	26.45	33	PASS
Band41	5MHz	QPSK	41565	1RB#12	22.77	26.37	33	PASS
Band41	5MHz	QPSK	41565	1RB#24	22.77	26.37	33	PASS
Band41	5MHz	QPSK	41565	25RB#0	21.88	25.48	33	PASS
Band41	5MHz	16QAM	39675	1RB#0	22.11	25.71	33	PASS
Band41	5MHz	16QAM	39675	1RB#12	22.12	25.72	33	PASS
Band41	5MHz	16QAM	39675	1RB#24	22.1	25.7	33	PASS
Band41	5MHz	16QAM	39675	25RB#0	21.13	24.73	33	PASS
Band41	5MHz	16QAM	40620	1RB#0	22.05	25.65	33	PASS
Band41	5MHz	16QAM	40620	1RB#12	22.03	25.63	33	PASS
Band41	5MHz	16QAM	40620	1RB#24	22.05	25.65	33	PASS
Band41	5MHz	16QAM	40620	25RB#0	21.05	24.65	33	PASS
Band41	5MHz	16QAM	41565	1RB#0	21.83	25.43	33	PASS
Band41	5MHz	16QAM	41565	1RB#12	21.8	25.4	33	PASS
Band41	5MHz	16QAM	41565	1RB#24	21.82	25.42	33	PASS
Band41	5MHz	16QAM	41565	25RB#0	20.86	24.46	33	PASS
Band41	10MHz	QPSK	39700	1RB#0	23.14	26.74	33	PASS
Band41	10MHz	QPSK	39700	1RB#24	23.13	26.73	33	PASS
Band41	10MHz	QPSK	39700	1RB#49	23.16	26.76	33	PASS
Band41	10MHz	QPSK	39700	50RB#0	22.24	25.84	33	PASS
Band41	10MHz	QPSK	40620	1RB#0	22.99	26.59	33	PASS
Band41	10MHz	QPSK	40620	1RB#24	22.99	26.59	33	PASS
Band41	10MHz	QPSK	40620	1RB#49	23	26.6	33	PASS

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Band41	10MHz	QPSK	40620	50RB#0	22.04	25.64	33	PASS
Band41	10MHz	QPSK	41540	1RB#0	22.85	26.45	33	PASS
Band41	10MHz	QPSK	41540	1RB#24	22.83	26.43	33	PASS
Band41	10MHz	QPSK	41540	1RB#49	22.78	26.38	33	PASS
Band41	10MHz	QPSK	41540	50RB#0	21.93	25.53	33	PASS
Band41	10MHz	16QAM	39700	1RB#0	22.21	25.81	33	PASS
Band41	10MHz	16QAM	39700	1RB#24	22.19	25.79	33	PASS
Band41	10MHz	16QAM	39700	1RB#49	22.16	25.76	33	PASS
Band41	10MHz	16QAM	39700	50RB#0	21.26	24.86	33	PASS
Band41	10MHz	16QAM	40620	1RB#0	22.07	25.67	33	PASS
Band41	10MHz	16QAM	40620	1RB#24	22.04	25.64	33	PASS
Band41	10MHz	16QAM	40620	1RB#49	22.05	25.65	33	PASS
Band41	10MHz	16QAM	40620	50RB#0	21.1	24.7	33	PASS
Band41	10MHz	16QAM	41540	1RB#0	21.86	25.46	33	PASS
Band41	10MHz	16QAM	41540	1RB#24	21.85	25.45	33	PASS
Band41	10MHz	16QAM	41540	1RB#49	21.84	25.44	33	PASS
Band41	10MHz	16QAM	41540	50RB#0	20.93	24.53	33	PASS
Band41	15MHz	QPSK	39725	1RB#0	23.08	26.68	33	PASS
Band41	15MHz	QPSK	39725	1RB#38	23.03	26.63	33	PASS
Band41	15MHz	QPSK	39725	1RB#74	23.09	26.69	33	PASS
Band41	15MHz	QPSK	39725	75RB#0	22.15	25.75	33	PASS
Band41	15MHz	QPSK	40620	1RB#0	22.98	26.58	33	PASS
Band41	15MHz	QPSK	40620	1RB#38	22.97	26.57	33	PASS
Band41	15MHz	QPSK	40620	1RB#74	23.01	26.61	33	PASS
Band41	15MHz	QPSK	40620	75RB#0	22.03	25.63	33	PASS
Band41	15MHz	QPSK	41515	1RB#0	22.81	26.41	33	PASS
Band41	15MHz	QPSK	41515	1RB#38	22.82	26.42	33	PASS
Band41	15MHz	QPSK	41515	1RB#74	22.78	26.38	33	PASS
Band41	15MHz	QPSK	41515	75RB#0	21.88	25.48	33	PASS
Band41	15MHz	16QAM	39725	1RB#0	22.13	25.73	33	PASS
Band41	15MHz	16QAM	39725	1RB#38	22.11	25.71	33	PASS
Band41	15MHz	16QAM	39725	1RB#74	22.14	25.74	33	PASS
Band41	15MHz	16QAM	39725	75RB#0	21.17	24.77	33	PASS
Band41	15MHz	16QAM	40620	1RB#0	22.09	25.69	33	PASS
Band41	15MHz	16QAM	40620	1RB#38	22.05	25.65	33	PASS
Band41	15MHz	16QAM	40620	1RB#74	22.08	25.68	33	PASS
Band41	15MHz	16QAM	40620	75RB#0	21.11	24.71	33	PASS

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Band41	15MHz	16QAM	41515	1RB#0	21.82	25.42	33	PASS
Band41	15MHz	16QAM	41515	1RB#38	21.84	25.44	33	PASS
Band41	15MHz	16QAM	41515	1RB#74	21.81	25.41	33	PASS
Band41	15MHz	16QAM	41515	75RB#0	20.9	24.5	33	PASS
Band41	20MHz	QPSK	39750	1RB#0	23.09	26.69	33	PASS
Band41	20MHz	QPSK	39750	1RB#49	23.1	26.7	33	PASS
Band41	20MHz	QPSK	39750	1RB#99	23.15	26.75	33	PASS
Band41	20MHz	QPSK	39750	100RB#0	22.23	25.83	33	PASS
Band41	20MHz	QPSK	40620	1RB#0	22.96	26.56	33	PASS
Band41	20MHz	QPSK	40620	1RB#49	22.97	26.57	33	PASS
Band41	20MHz	QPSK	40620	1RB#99	22.92	26.52	33	PASS
Band41	20MHz	QPSK	40620	100RB#0	22.06	25.66	33	PASS
Band41	20MHz	QPSK	41490	1RB#0	22.92	26.52	33	PASS
Band41	20MHz	QPSK	41490	1RB#49	22.81	26.41	33	PASS
Band41	20MHz	QPSK	41490	1RB#99	22.78	26.38	33	PASS
Band41	20MHz	QPSK	41490	100RB#0	21.92	25.52	33	PASS
Band41	20MHz	16QAM	39750	1RB#0	22.17	25.77	33	PASS
Band41	20MHz	16QAM	39750	1RB#49	22.18	25.78	33	PASS
Band41	20MHz	16QAM	39750	1RB#99	22.16	25.76	33	PASS
Band41	20MHz	16QAM	39750	100RB#0	21.23	24.83	33	PASS
Band41	20MHz	16QAM	40620	1RB#0	22.05	25.65	33	PASS
Band41	20MHz	16QAM	40620	1RB#49	22.03	25.63	33	PASS
Band41	20MHz	16QAM	40620	1RB#99	22.04	25.64	33	PASS
Band41	20MHz	16QAM	40620	100RB#0	21.08	24.68	33	PASS
Band41	20MHz	16QAM	41490	1RB#0	21.86	25.46	33	PASS
Band41	20MHz	16QAM	41490	1RB#49	21.85	25.45	33	PASS
Band41	20MHz	16QAM	41490	1RB#99	21.79	25.39	33	PASS
Band41	20MHz	16QAM	41490	100RB#0	20.94	24.54	33	PASS

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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	7.36	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	7.32	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	6.70	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	7.98	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	8.14	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	7.52	13	PASS

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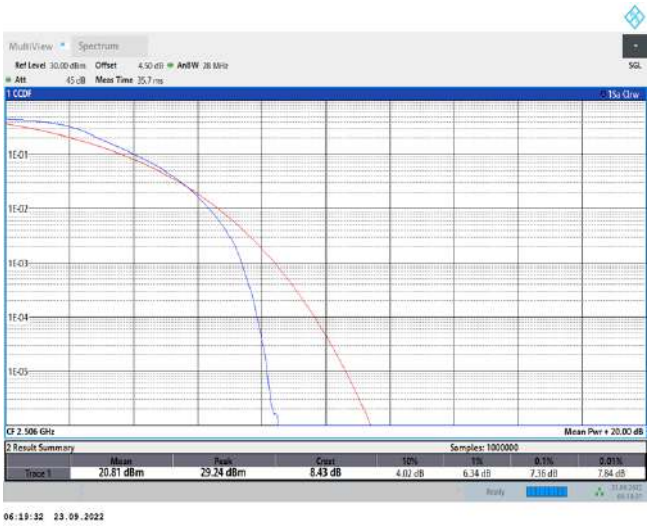
Test Graphs

Band41-20MHz-QPSK-39750-100RB#0



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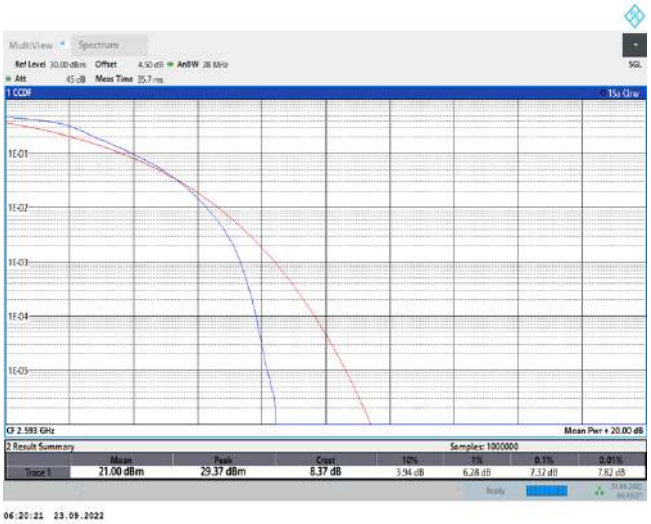

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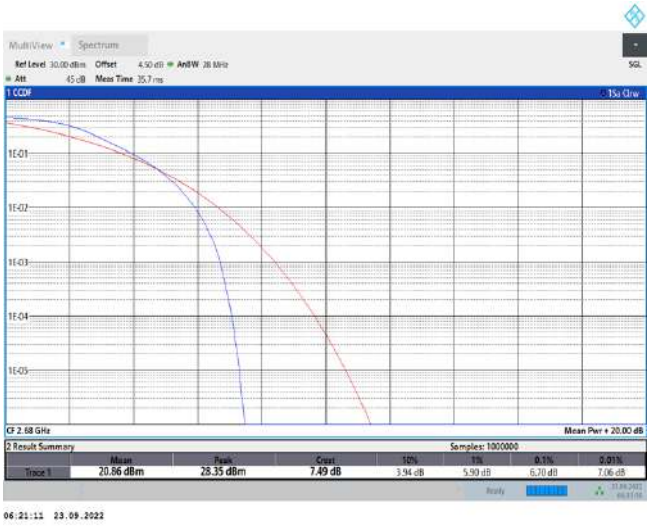
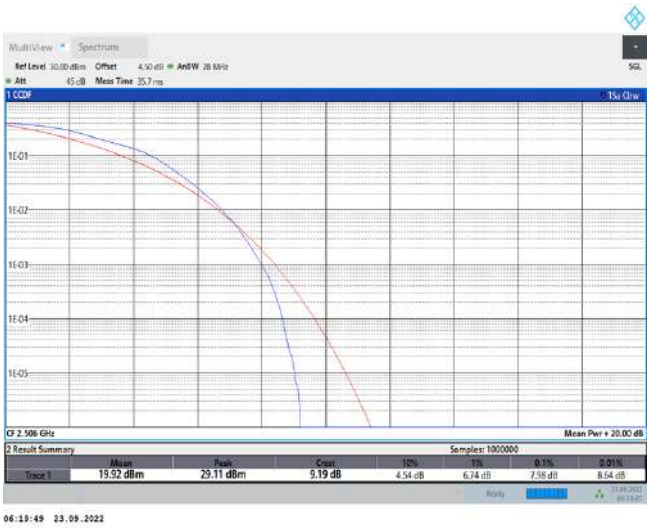
Band41-20MHz-QPSK-41490-100RB#0



Band41-20MHz-16QAM-39750-100RB#0



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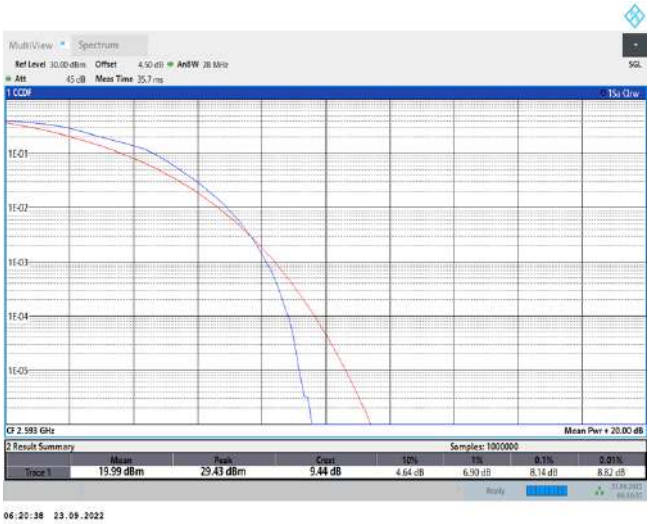
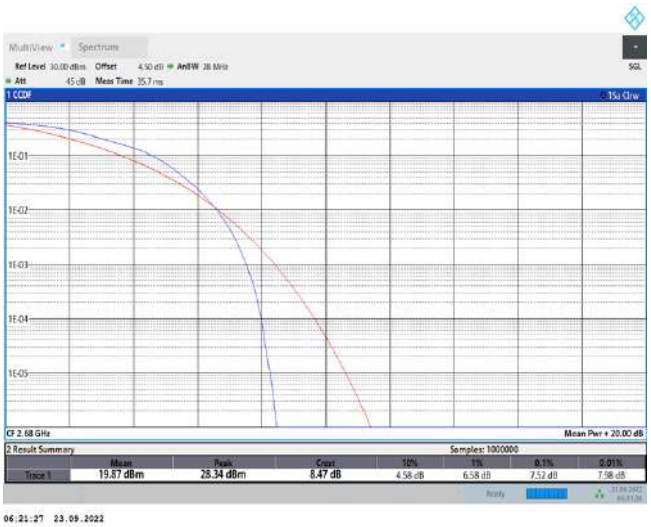
Band41-20MHz-16QAM-40620-100RB#0



Band41-20MHz-16QAM-41490-100RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band41	20MHz	QPSK	40620	100RB#0	PASS	PASS
Band41	20MHz	16QAM	40620	100RB#0	PASS	PASS

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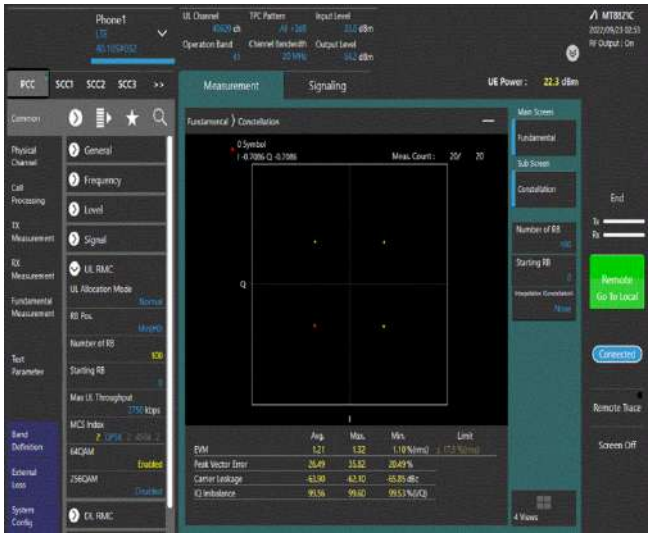
Test Graphs

Band41-20MHz-QPSK-40620-100RB#0

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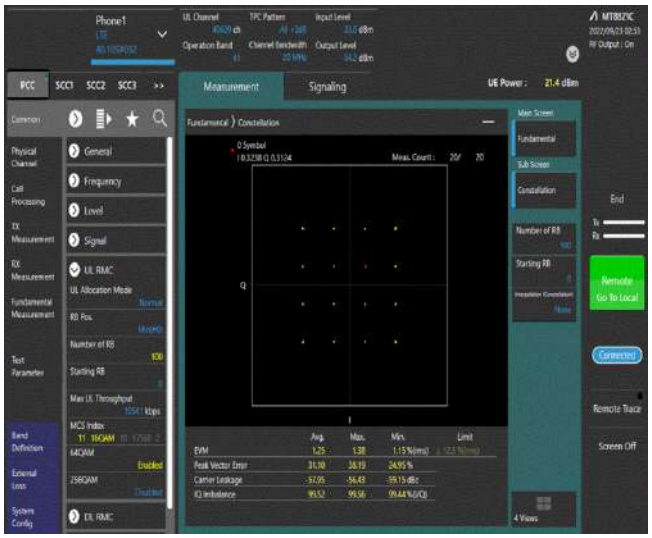

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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.469	4.88	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.474	4.87	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.475	4.89	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.471	4.88	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.474	4.89	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.474	4.93	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.924	9.70	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.925	9.66	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.931	9.66	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.914	9.60	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.912	9.62	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.917	9.66	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.466	14.82	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.46	14.73	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.462	14.82	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.438	14.73	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.439	14.76	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.451	14.79	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.893	19.36	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.878	19.32	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.835	19.20	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.826	19.24	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.817	19.28	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.798	19.08	PASS

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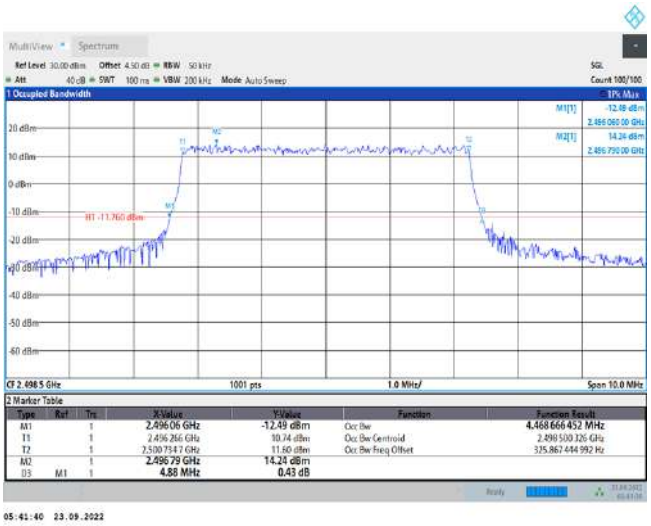
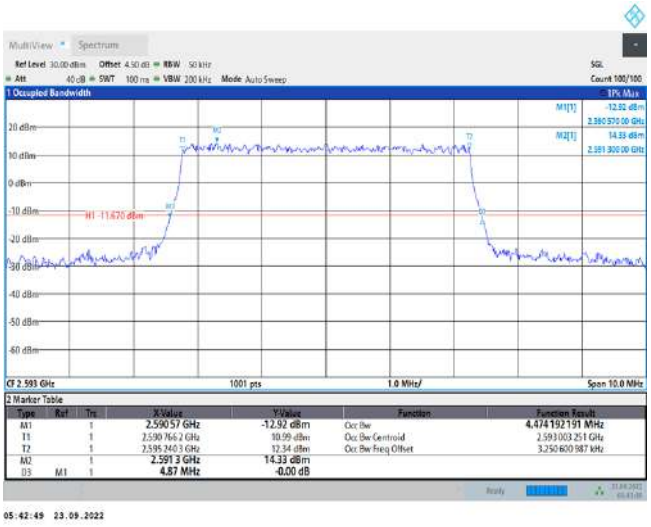
Test Graphs

Band41-5MHz-QPSK-39675-25RB#0



Band41-5MHz-QPSK-40620-25RB#0



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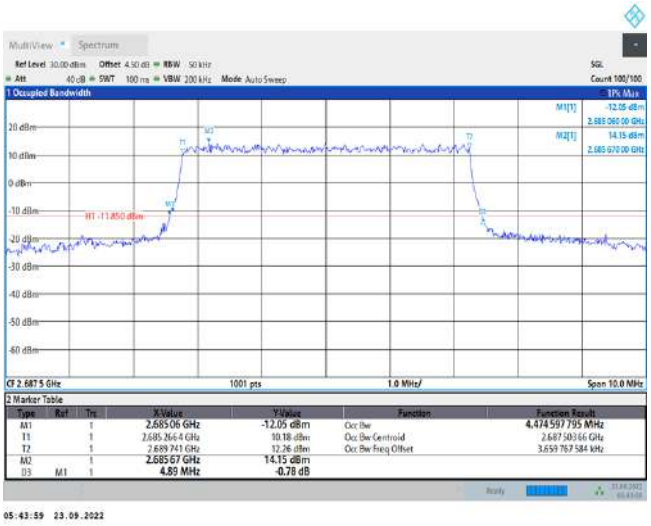
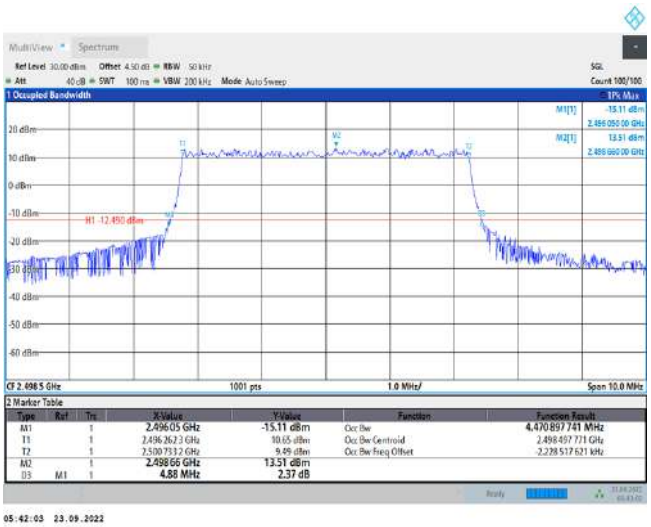
Band41-5MHz-QPSK-41565-25RB#0



Band41-5MHz-16QAM-39675-25RB#0



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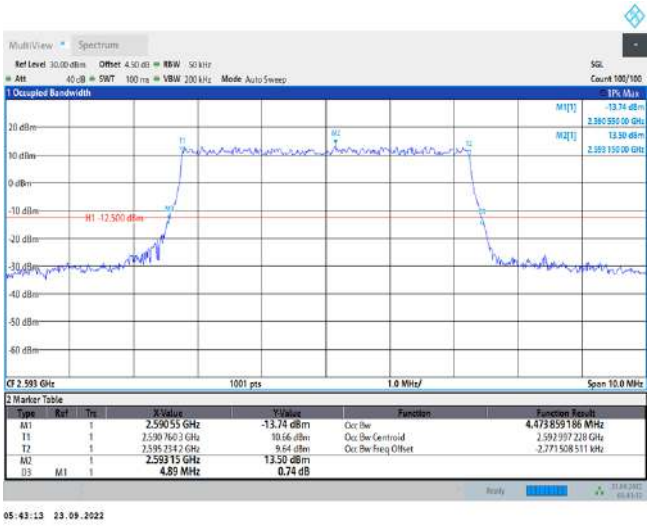
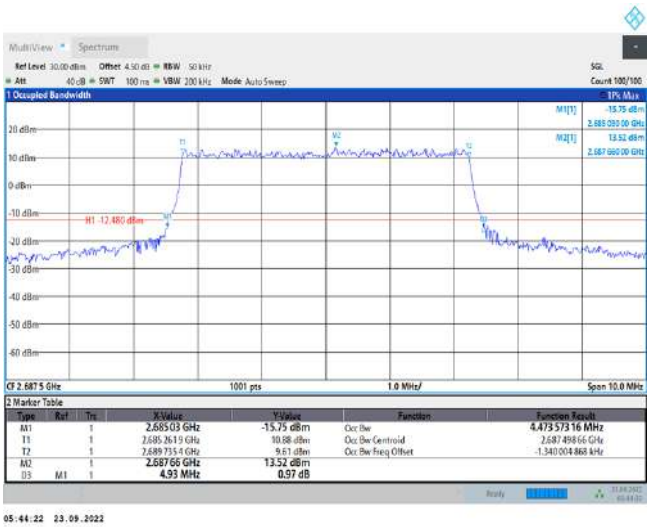
Band41-5MHz-16QAM-40620-25RB#0



Band41-5MHz-16QAM-41565-25RB#0



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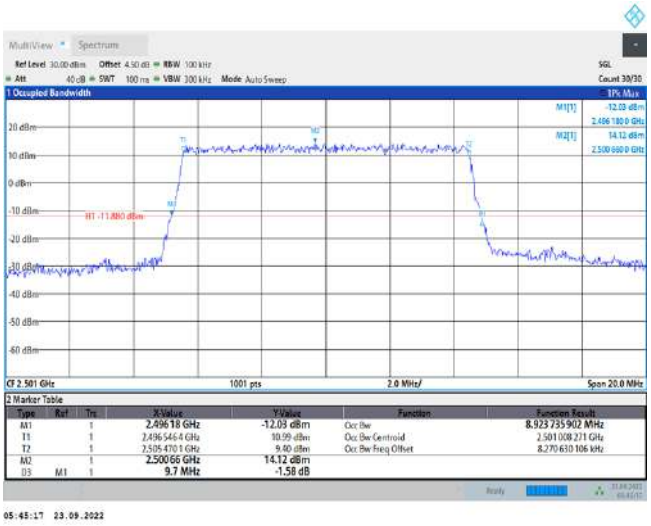
Band41-10MHz-QPSK-39700-50RB#0



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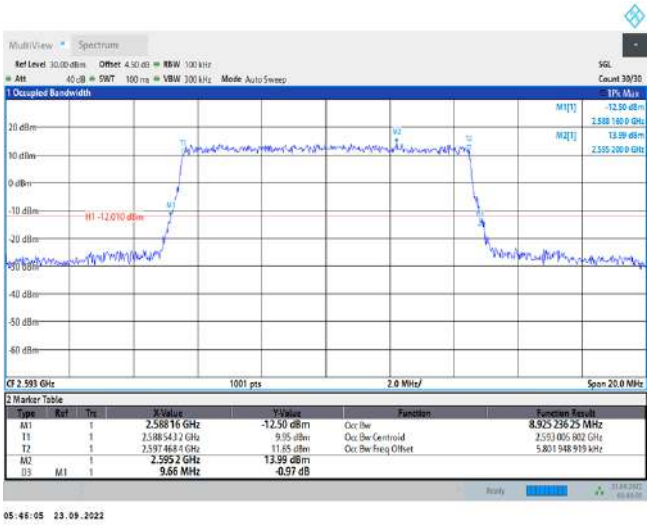
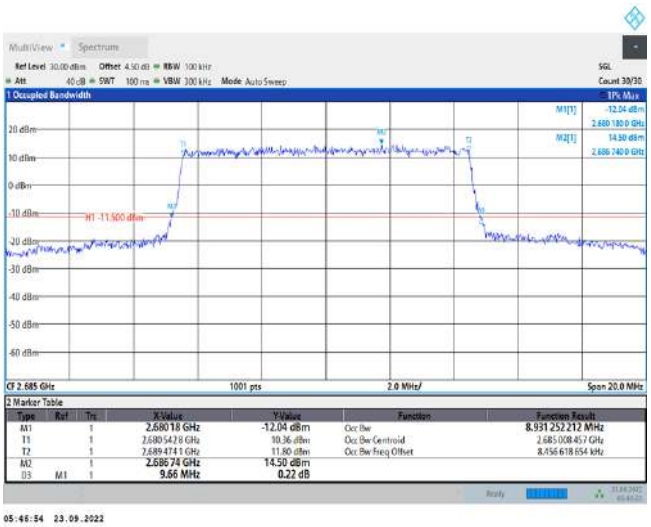
Band41-10MHz-QPSK-40620-50RB#0



Band41-10MHz-QPSK-41540-50RB#0



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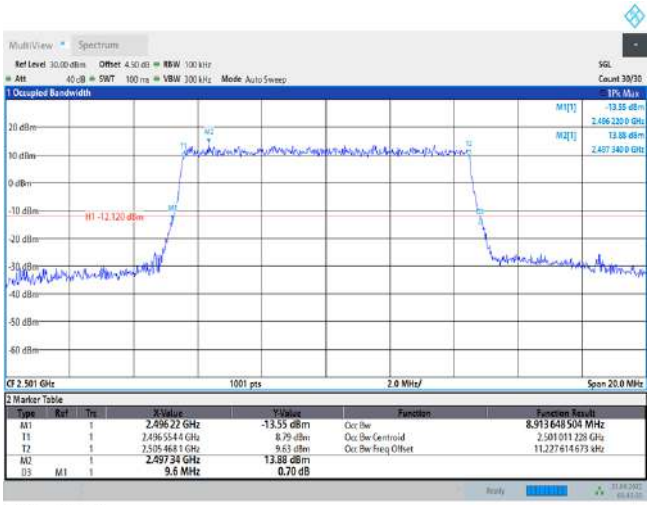
Band41-10MHz-16QAM-39700-50RB#0



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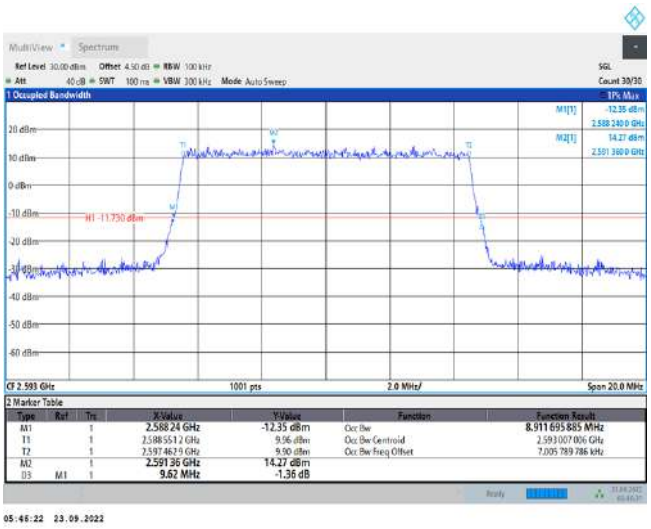

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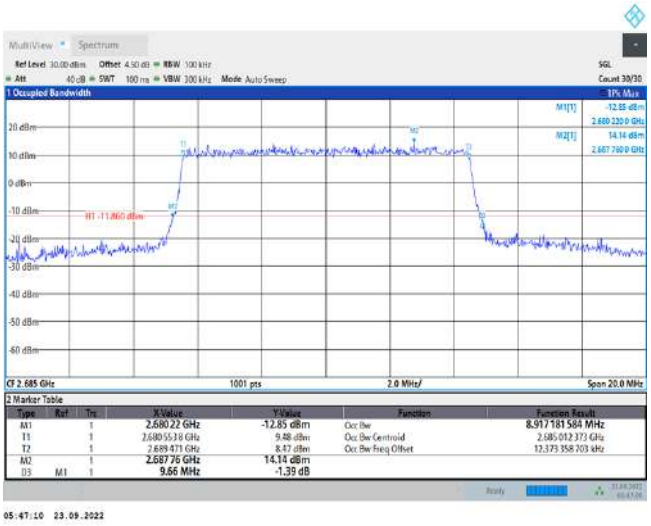
Band41-10MHz-16QAM-41540-50RB#0



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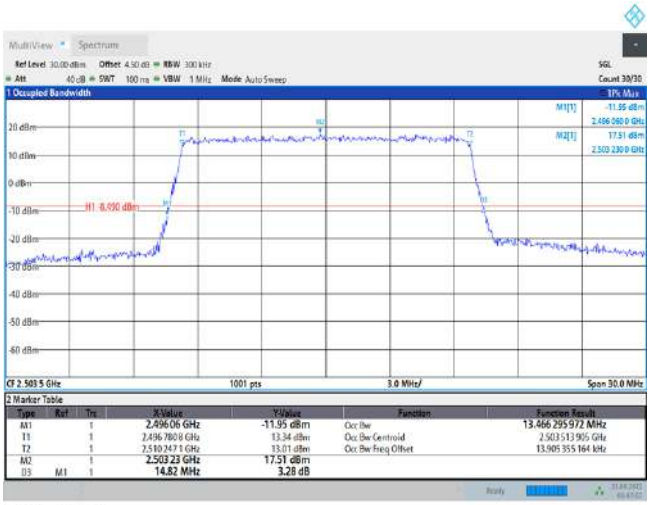
Band41-15MHz-QPSK-39725-75RB#0



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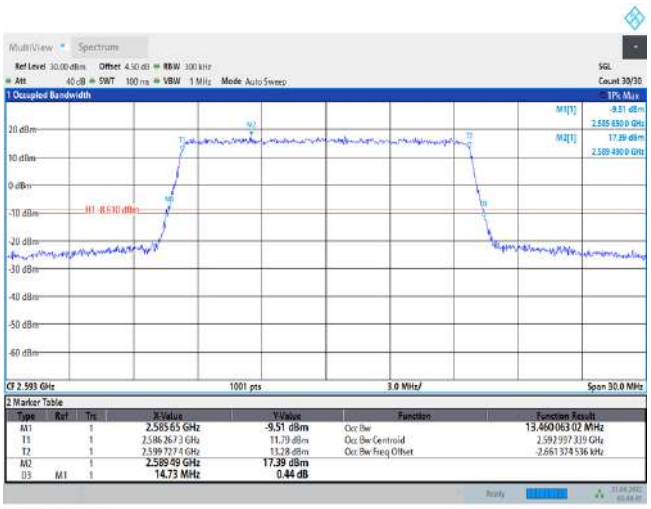

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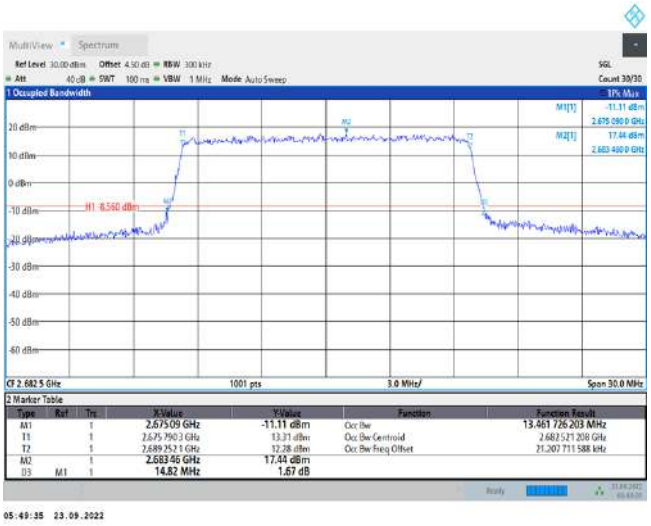
Band41-15MHz-QPSK-41515-75RB#0



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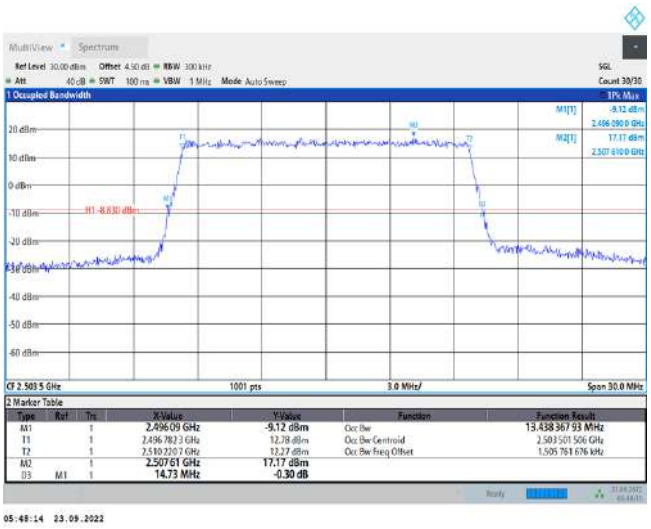

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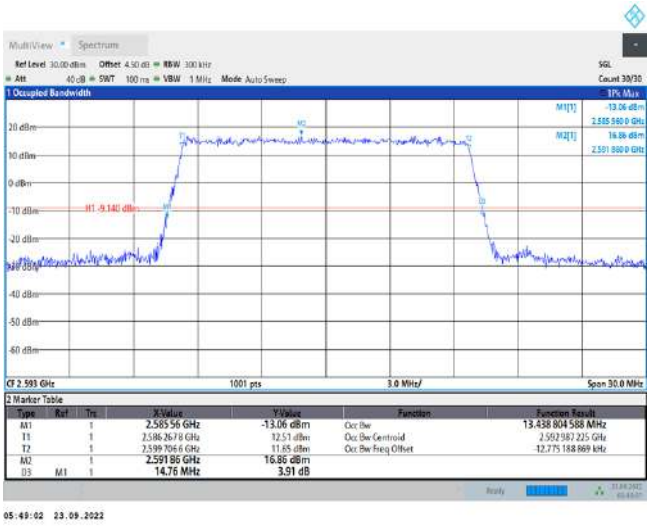
Band41-15MHz-16QAM-40620-75RB#0



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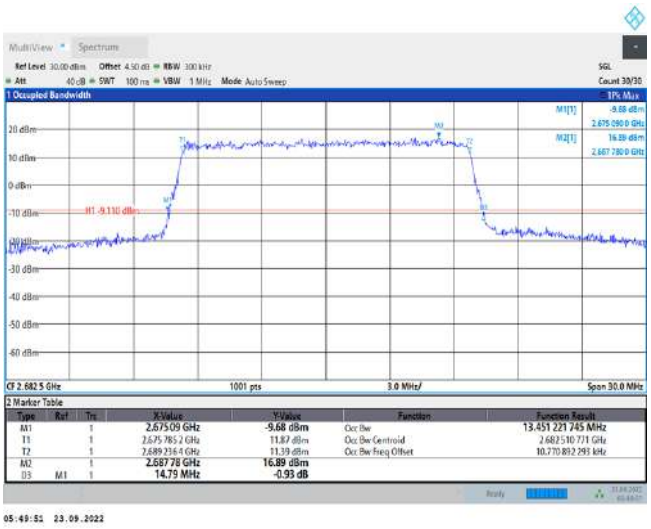

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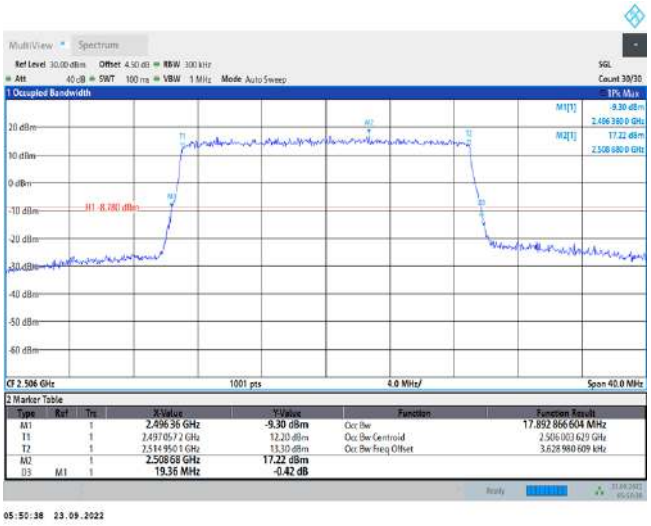
Band41-20MHz-QPSK-39750-100RB#0



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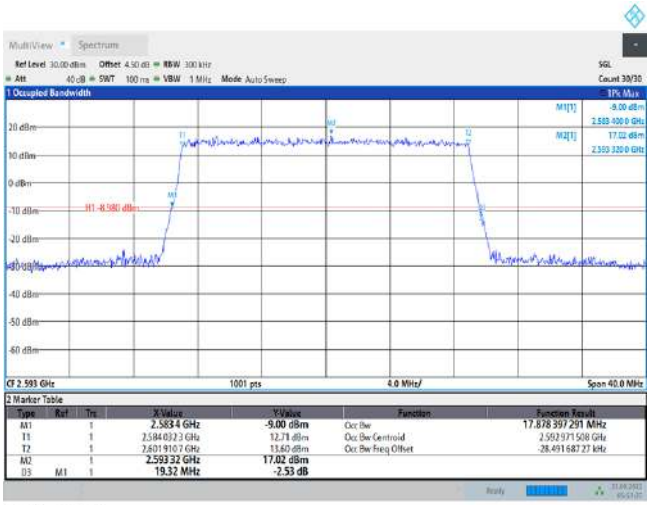
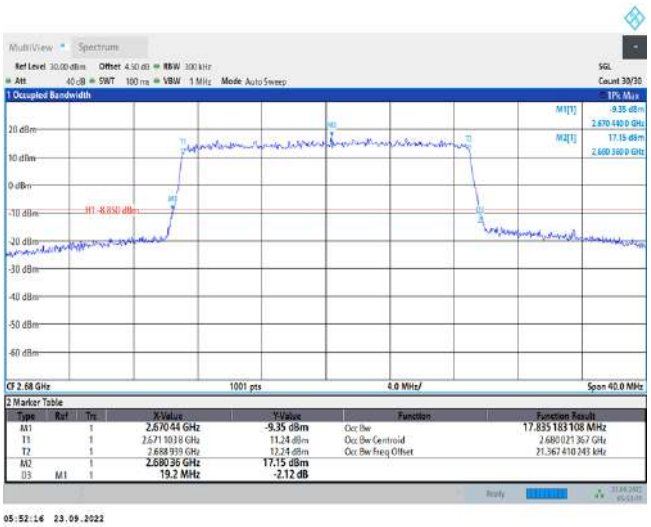
Band41-20MHz-QPSK-40620-100RB#0



Band41-20MHz-QPSK-41490-100RB#0



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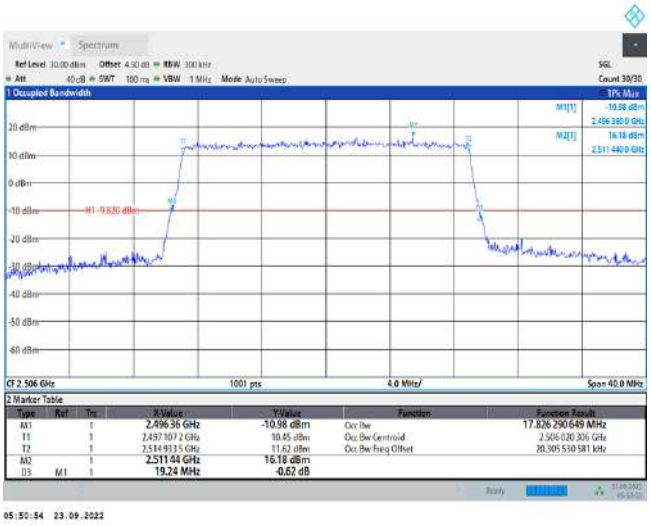
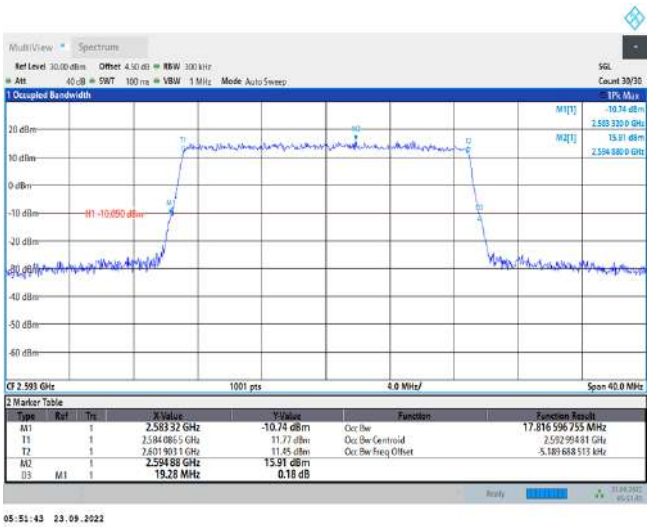
Band41-20MHz-16QAM-39750-100RB#0



Band41-20MHz-16QAM-40620-100RB#0



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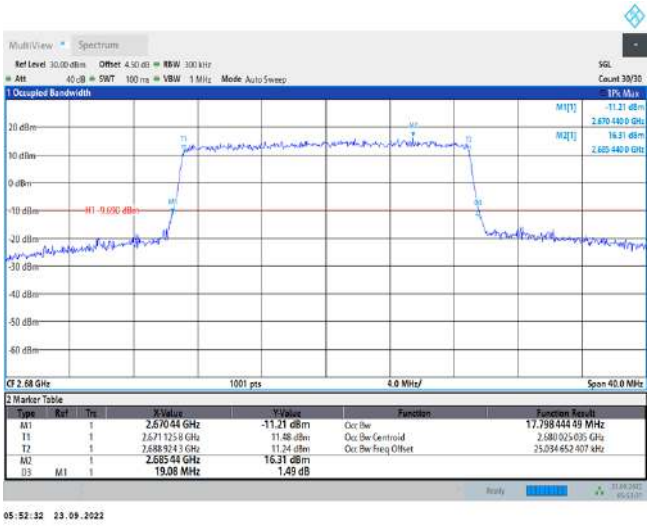
Band41-20MHz-16QAM-41490-100RB#0



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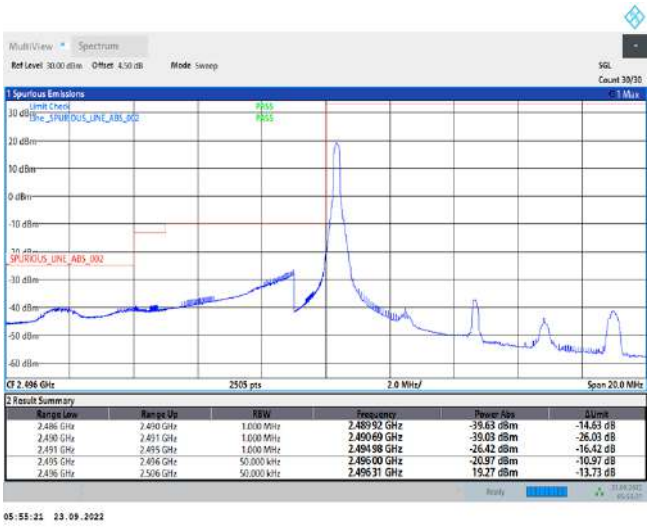
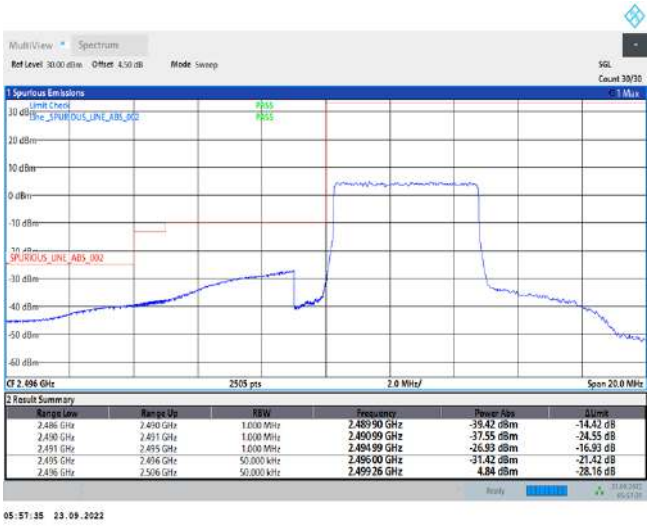
Band Edge

Test Graphs

Band41-5MHz-QPSK-39675-1RB#0



Band41-5MHz-QPSK-39675-25RB#0



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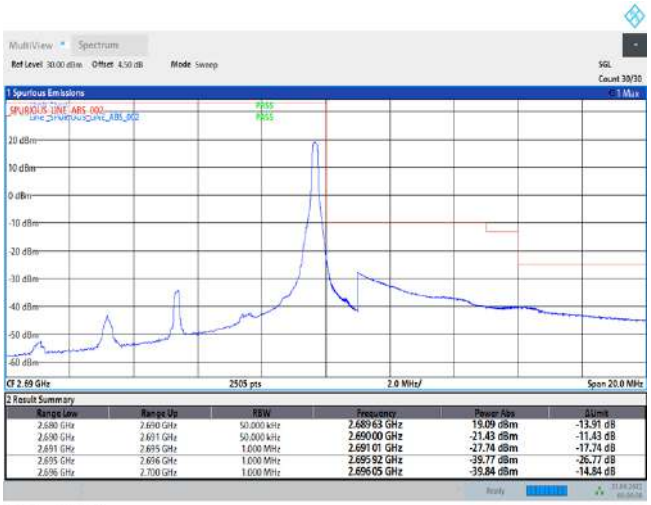
Band41-5MHz-QPSK-41565-1RB#24



Band41-5MHz-QPSK-41565-25RB#0

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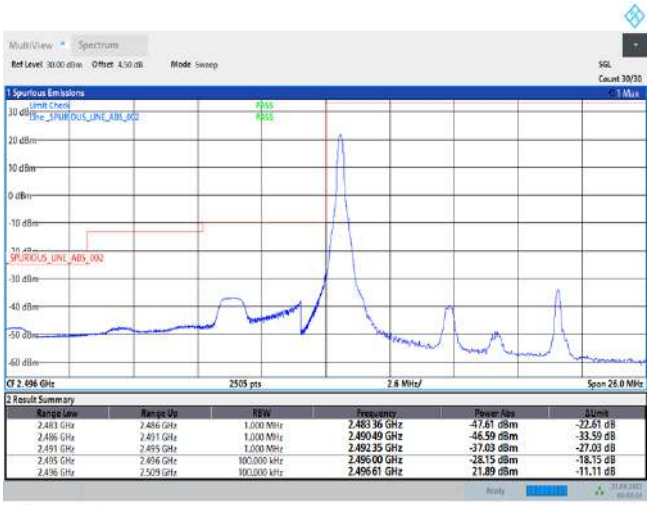
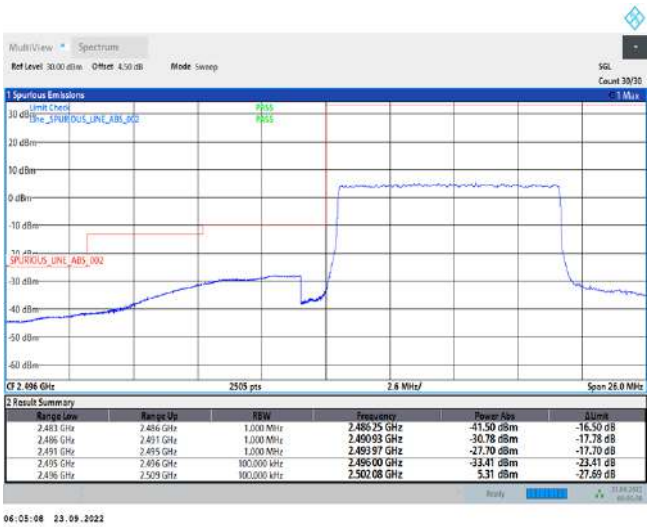
Band41-10MHz-QPSK-39700-1RB#0



Band41-10MHz-QPSK-39700-50RB#0



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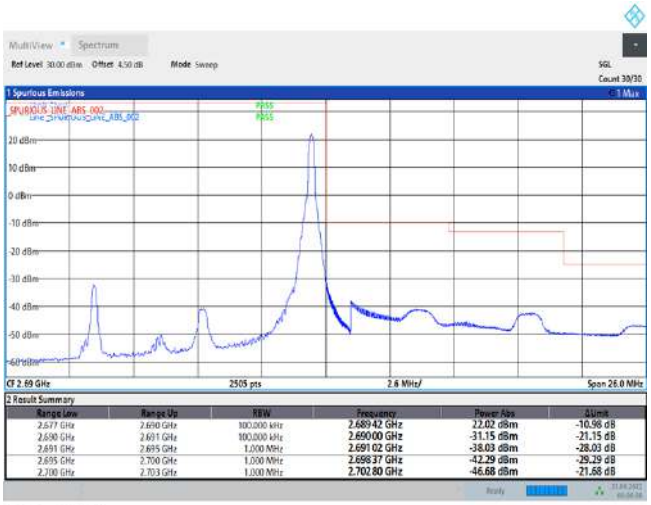
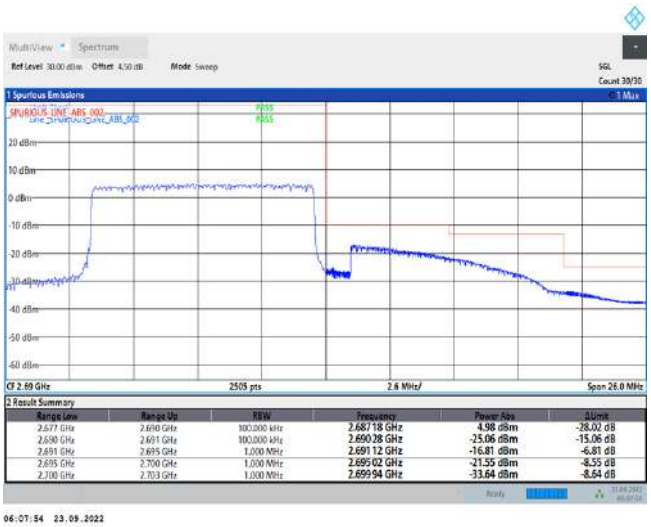
Band41-10MHz-QPSK-41540-1RB#49



Band41-10MHz-QPSK-41540-50RB#0



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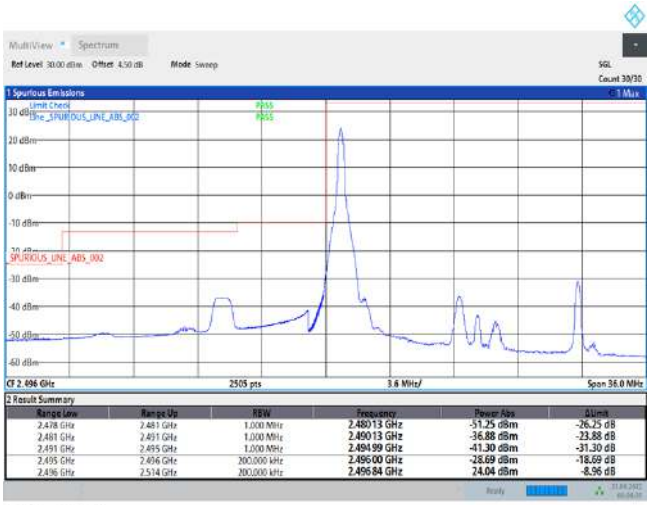
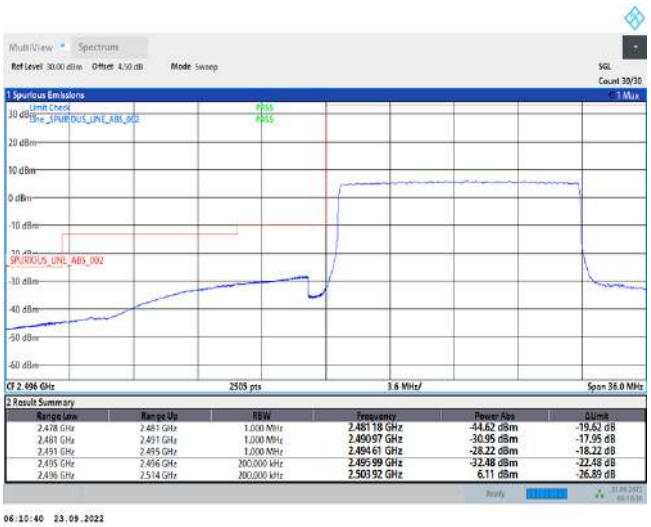
Band41-15MHz-QPSK-39725-1RB#0



Band41-15MHz-QPSK-39725-75RB#0



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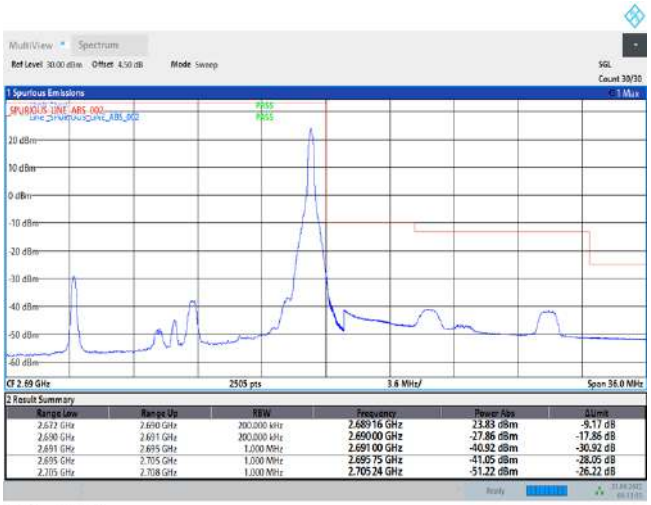
Band41-15MHz-QPSK-41515-1RB#74



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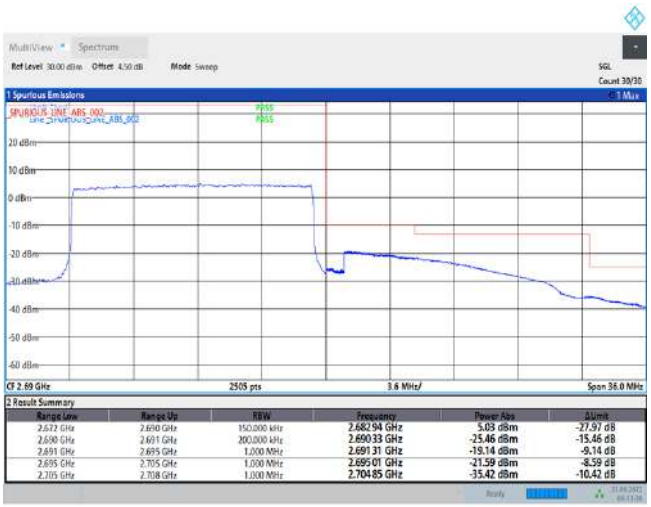
Band41-15MHz-QPSK-41515-75RB#0



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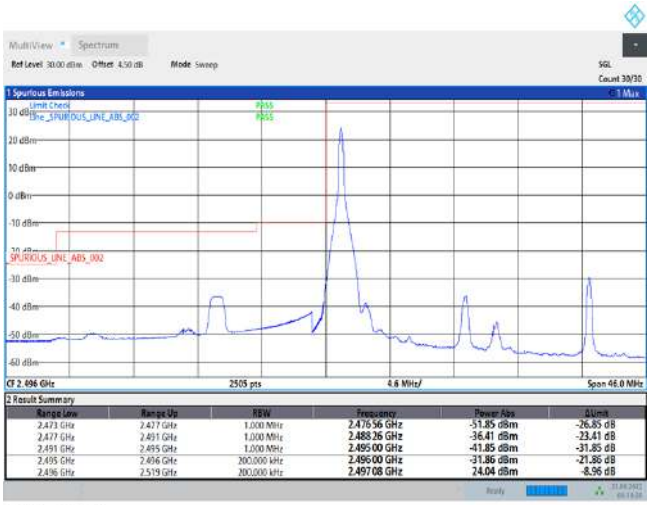
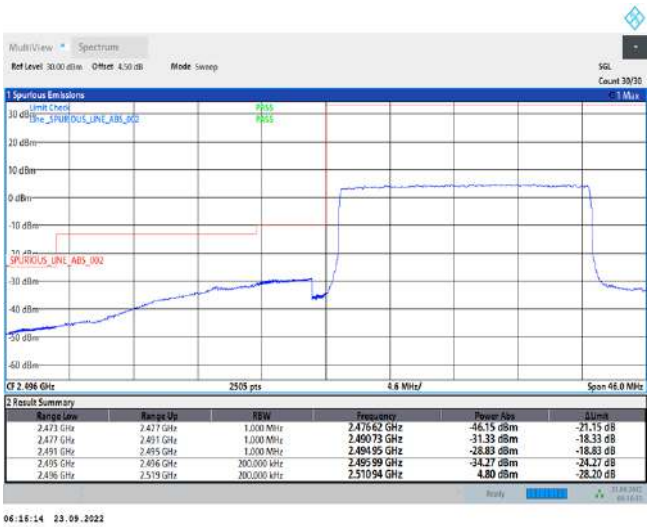
Band41-20MHz-QPSK-39750-1RB#0



Band41-20MHz-QPSK-39750-100RB#0



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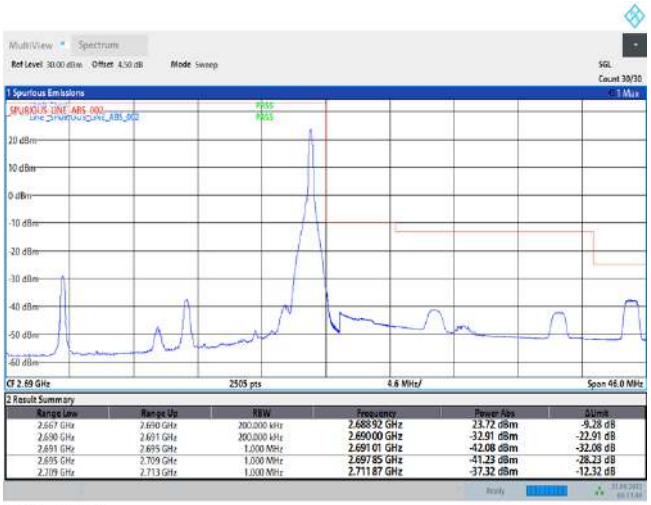
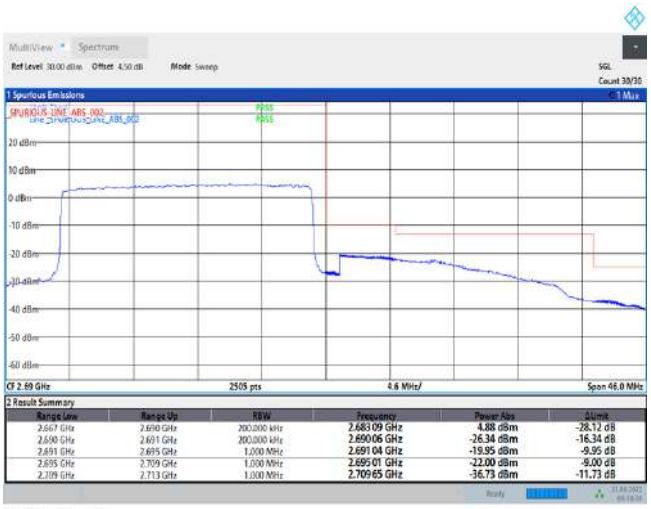
Band41-20MHz-QPSK-41490-1RB#99



Band41-20MHz-QPSK-41490-100RB#0



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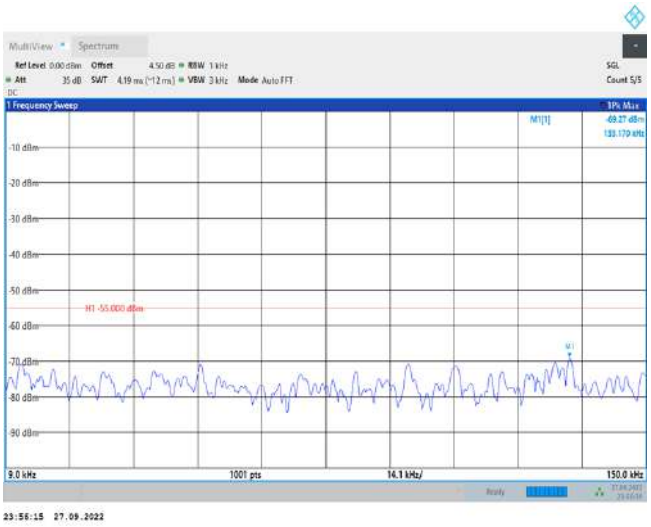
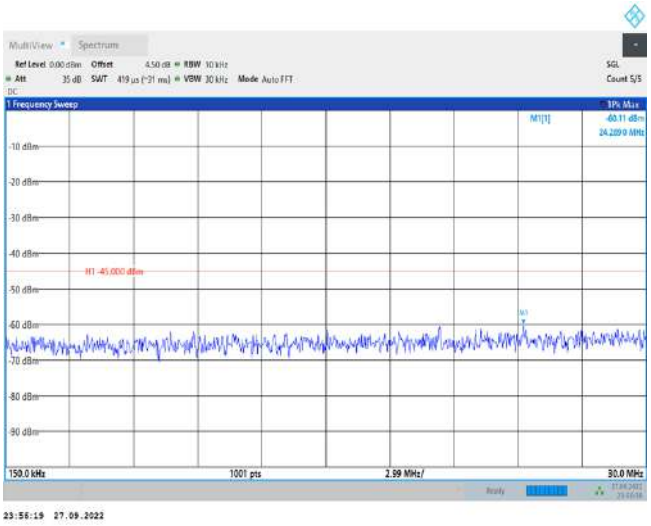
Conducted Spurious Emission

Test Graphs

Band41-20MHz-QPSK-39750-1RB#0-Range1:0.009~0.15MHz



Band41-20MHz-QPSK-39750-1RB#0-Range2:0.15~30MHz



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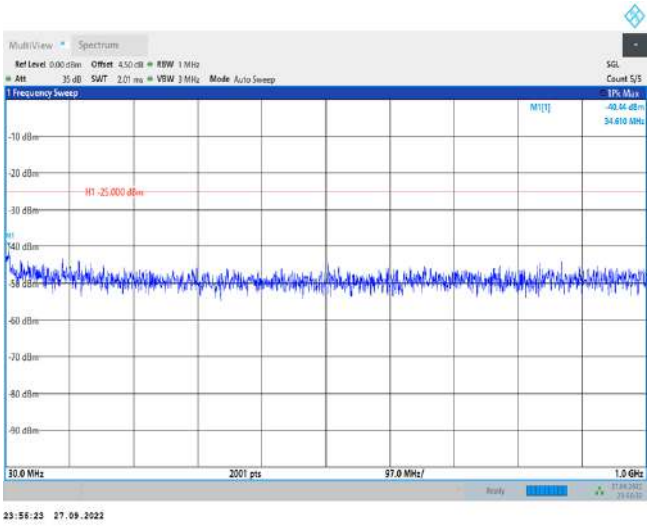
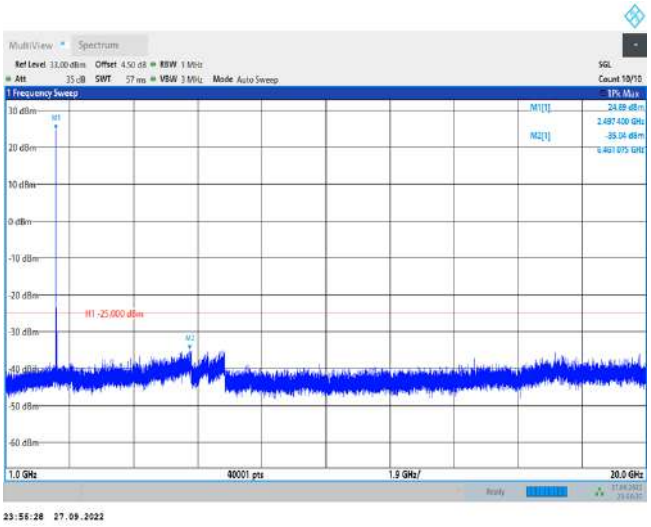
Band41-20MHz-QPSK-39750-1RB#0-Range3:30~1000MHz



Band41-20MHz-QPSK-39750-1RB#0-Range4:1000~20000MHz



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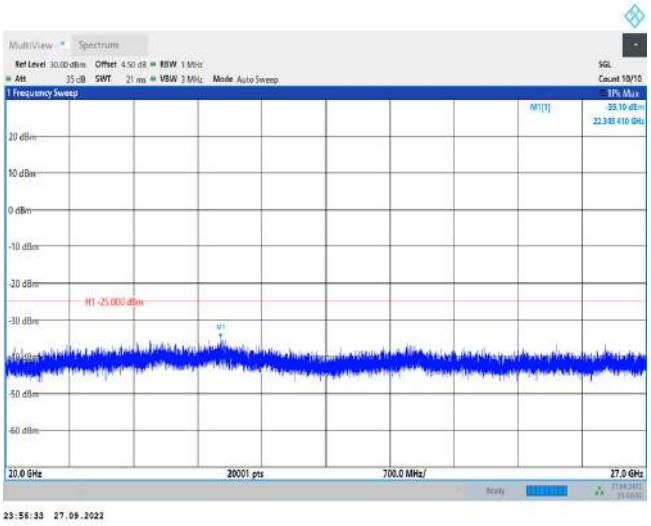
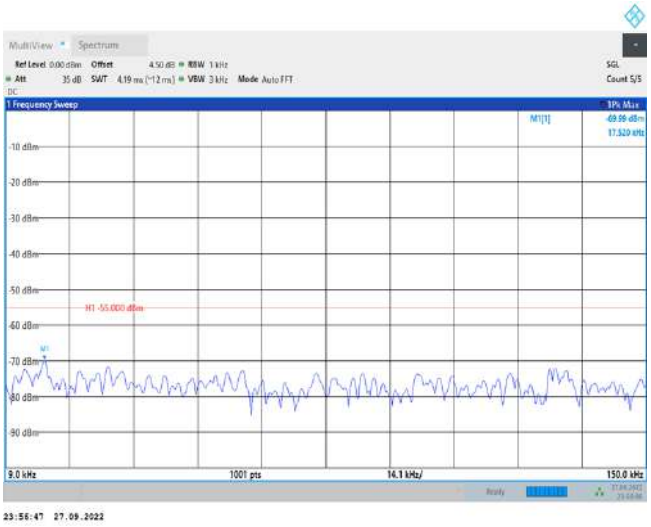
Band41-20MHz-QPSK-39750-1RB#0-Range5:20000~27000MHz



Band41-20MHz-QPSK-40620-1RB#0-Range1:0.009~0.15MHz



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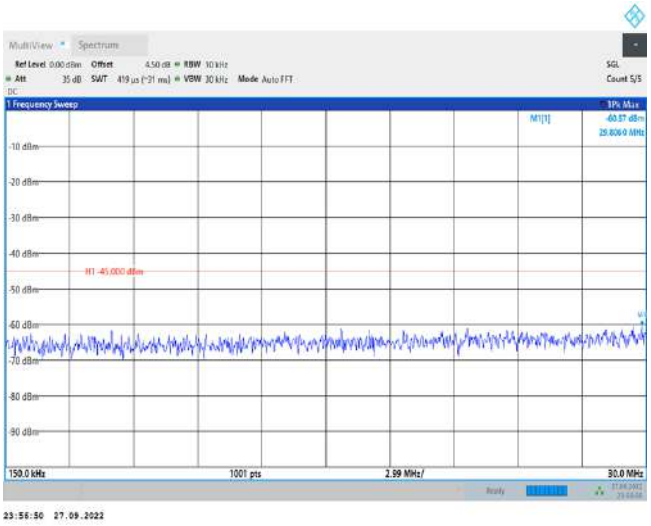
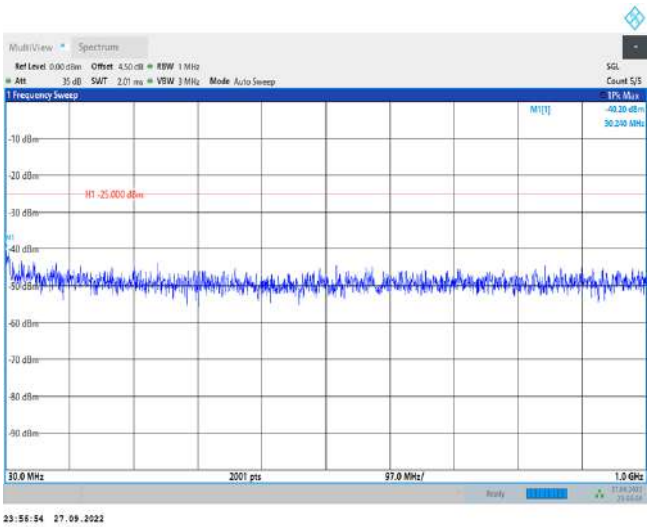
Band41-20MHz-QPSK-40620-1RB#0-Range2:0.15~30MHz



Band41-20MHz-QPSK-40620-1RB#0-Range3:30~1000MHz



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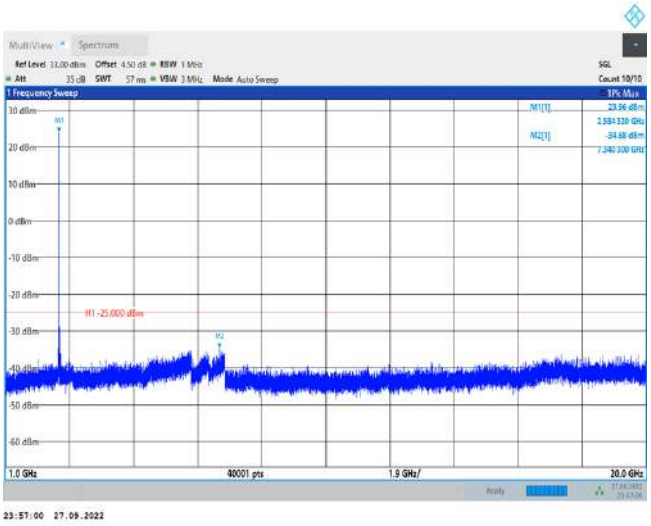
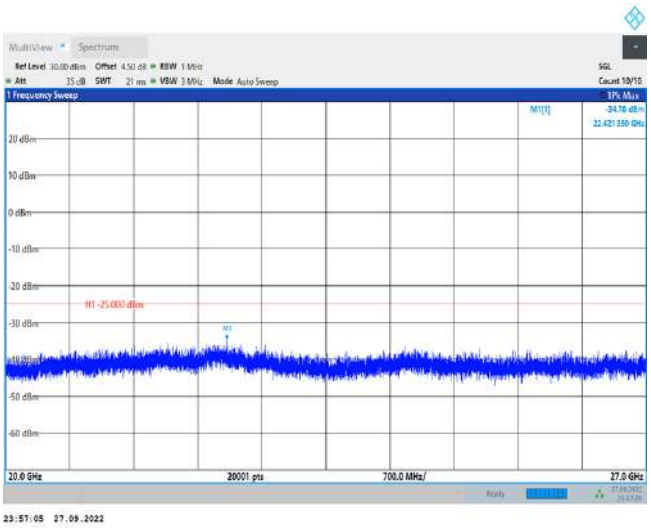
Band41-20MHz-QPSK-40620-1RB#0-Range4:1000~20000MHz



Band41-20MHz-QPSK-40620-1RB#0-Range5:20000~27000MHz



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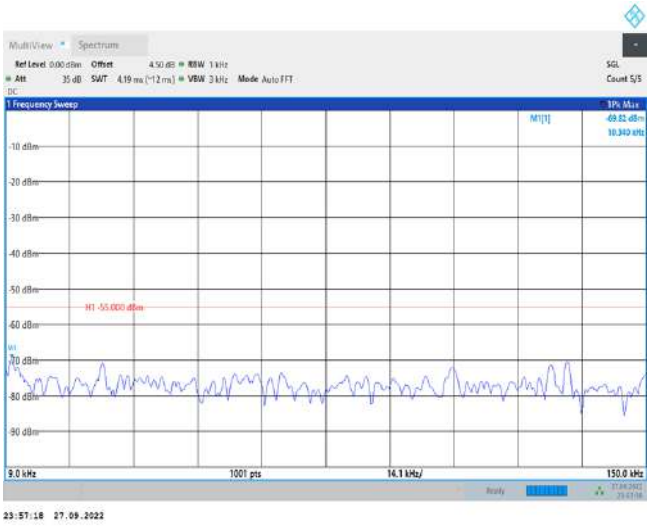
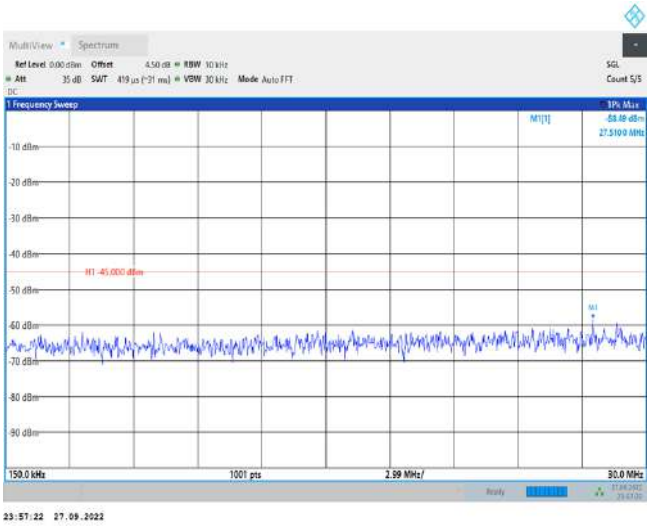
Band41-20MHz-QPSK-41490-1RB#0-Range1:0.009~0.15MHz



Band41-20MHz-QPSK-41490-1RB#0-Range2:0.15~30MHz



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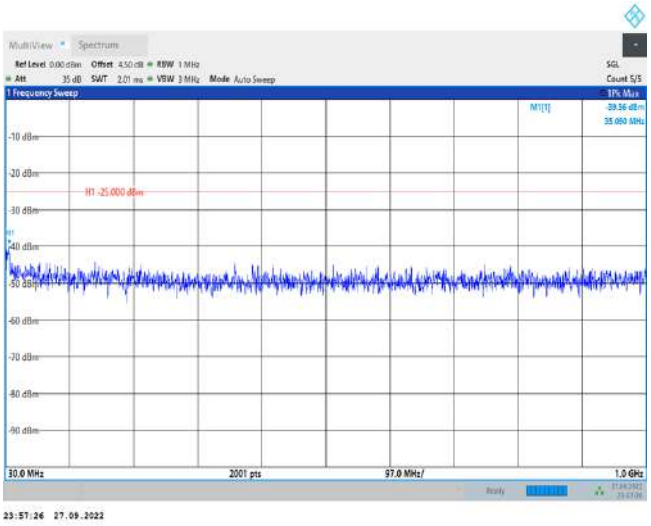
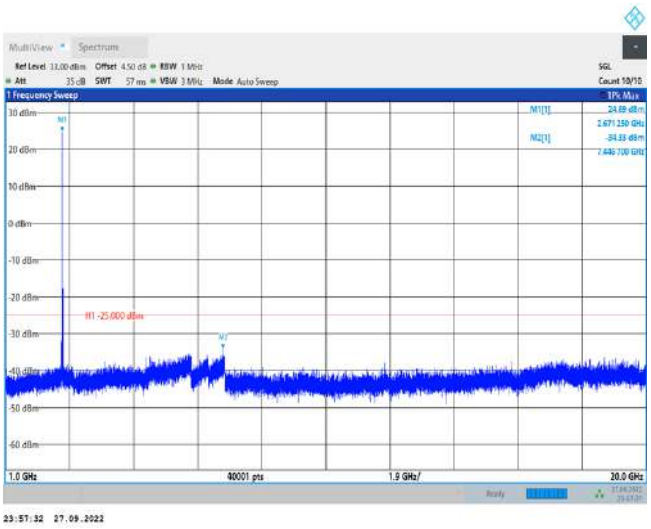
Band41-20MHz-QPSK-41490-1RB#0-Range3:30~1000MHz



Band41-20MHz-QPSK-41490-1RB#0-Range4:1000~20000MHz



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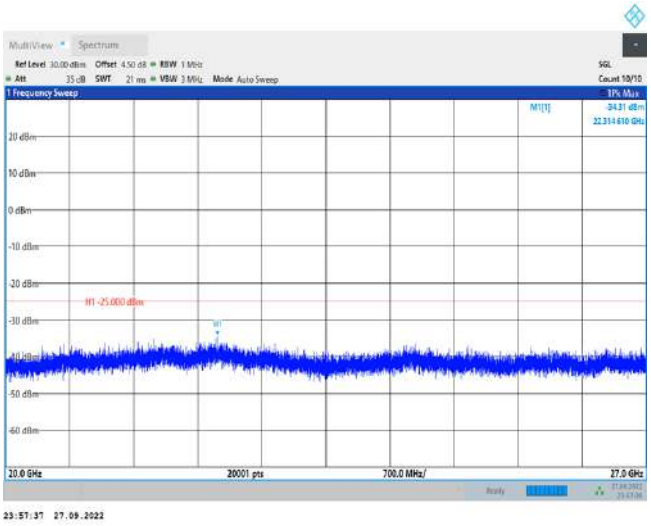
Band41-20MHz-QPSK-41490-1RB#0-Range5:20000~27000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band41_ TM1
Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4994.1800	49.82	-45.63	32.86	-58.21	-25.00	33.21	256	74	Horizontal
2	7491.2700	44.40	-43.16	36.44	-57.58	-25.00	32.58	133	3	Horizontal
3	9988.3600	40.33	-39.25	38.47	-55.71	-25.00	30.71	236	239	Horizontal
4	12485.4500	30.29	-37.04	39.16	-62.85	-25.00	37.85	256	3	Horizontal
5	14982.5400	28.66	-34.64	39.26	-61.98	-25.00	36.98	264	29	Horizontal
6	17479.6300	32.89	-35.10	39.13	-58.34	-25.00	33.34	129	164	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4994.1800	51.85	-45.63	32.86	-56.18	-25.00	31.18	214	360	Vertical
2	7491.2700	47.66	-43.16	36.44	-54.32	-25.00	29.32	125	360	Vertical
3	9988.3600	49.78	-39.25	38.47	-46.26	-25.00	21.26	186	360	Vertical
4	12485.4500	30.97	-37.04	39.16	-62.17	-25.00	37.17	133	353	Vertical
5	14982.5400	29.53	-34.64	39.26	-61.11	-25.00	36.11	263	240	Vertical
6	17479.6300	32.32	-35.10	39.13	-58.91	-25.00	33.91	251	226	Vertical

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Test Band = LTE Band41_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3847.5	50.40	-46.09	30.44	-60.51	-25.00	35.51	248	135	Horizontal
2	5168.1800	47.81	-45.31	32.97	-59.79	-25.00	34.79	159	88	Horizontal
3	7752.2700	49.04	-42.69	36.69	-52.22	-25.00	27.22	165	14	Horizontal
4	10336.3600	38.66	-39.06	38.84	-56.82	-25.00	31.82	145	255	Horizontal
5	12920.4500	33.10	-37.16	39.75	-59.57	-25.00	34.57	129	150	Horizontal
6	15504.5400	30.22	-35.35	38.57	-61.82	-25.00	36.82	199	269	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3645	50.63	-45.85	29.77	-60.70	-25.00	35.70	222	225	Vertical
2	5168.1800	51.96	-45.31	32.97	-55.64	-25.00	30.64	145	256	Vertical
3	7752.2700	52.90	-42.69	36.69	-48.36	-25.00	23.36	132	4	Vertical
4	10336.3600	47.34	-39.06	38.84	-48.14	-25.00	23.14	125	16	Vertical
5	12920.4500	33.07	-37.16	39.75	-59.60	-25.00	34.60	195	345	Vertical
6	15504.5400	29.98	-35.35	38.57	-62.06	-25.00	37.06	148	4	Vertical

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Test Band = LTE Band41_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4014.75	50.46	-46.00	30.82	-59.98	-25.00	34.98	263	358	Horizontal
2	5255.1800	46.52	-45.18	32.94	-60.98	-25.00	35.98	254	90	Horizontal
3	7882.7700	42.76	-42.73	36.88	-58.36	-25.00	33.36	125	44	Horizontal
4	10510.3600	33.23	-38.77	38.97	-61.82	-25.00	36.82	139	104	Horizontal
5	13137.9500	29.54	-37.08	39.89	-62.90	-25.00	37.90	291	242	Horizontal
6	15765.5400	29.18	-33.25	38.24	-61.08	-25.00	36.08	145	44	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3516.75	51.69	-46.24	29.54	-60.27	-25.00	35.27	284	359	Vertical
2	5255.1800	48.42	-45.18	32.94	-59.08	-25.00	34.08	156	360	Vertical
3	8013	56.19	-42.22	37.01	-44.28	-25.00	19.28	132	360	Vertical
4	10510.3600	33.09	-38.77	38.97	-61.96	-25.00	36.96	126	162	Vertical
5	13137.9500	29.29	-37.08	39.89	-63.15	-25.00	38.15	199	74	Vertical
6	15765.5400	29.14	-33.25	38.24	-61.12	-25.00	36.12	145	148	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	16.50	0.006363	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	3.50	0.001350	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	3.80	0.001465	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	12.50	0.004821	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	-2.20	-0.000848	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	4.30	0.001658	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	-0.50	-0.000193	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	13.20	0.005091	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	13.40	0.005168	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	1.00	0.000386	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	8.40	0.003239	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	3.40	0.001311	PASS

---End of Attachment---

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