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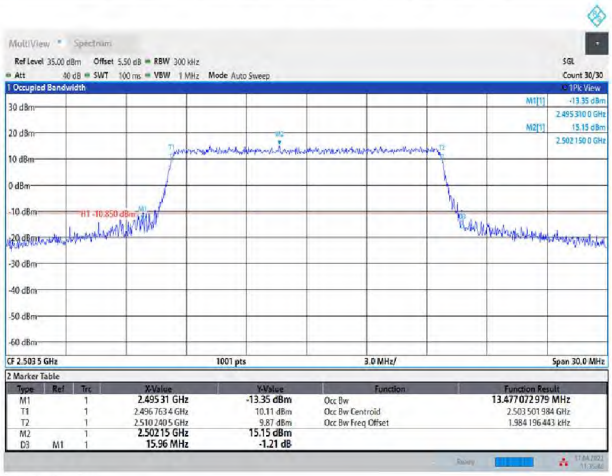

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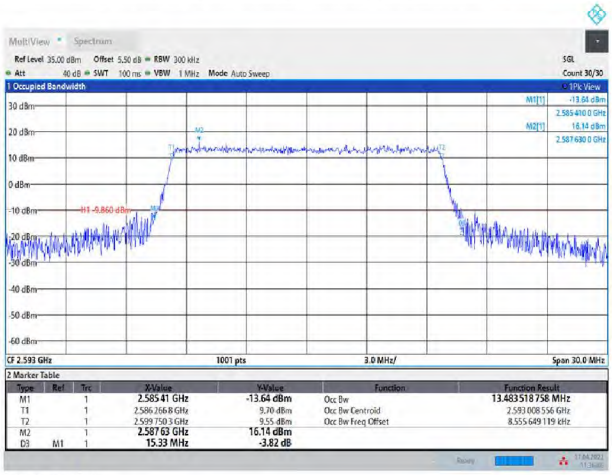

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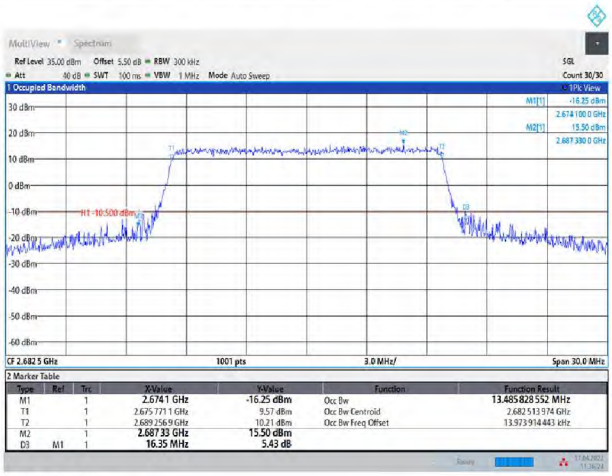

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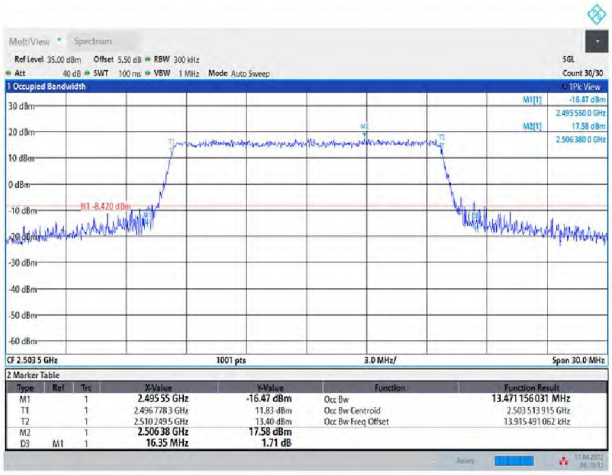

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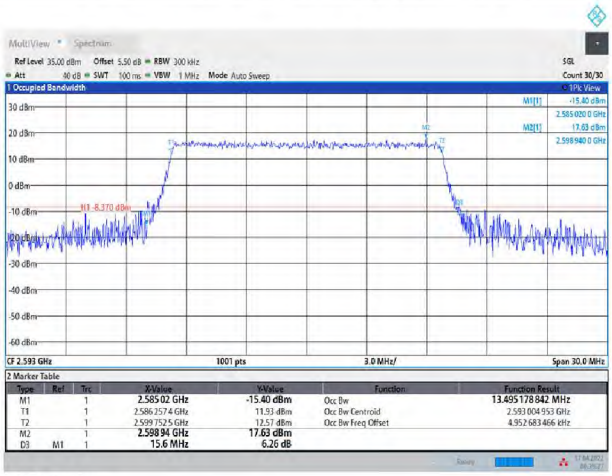

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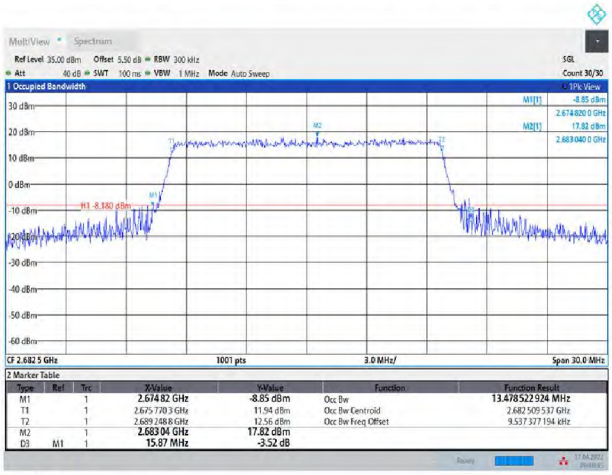

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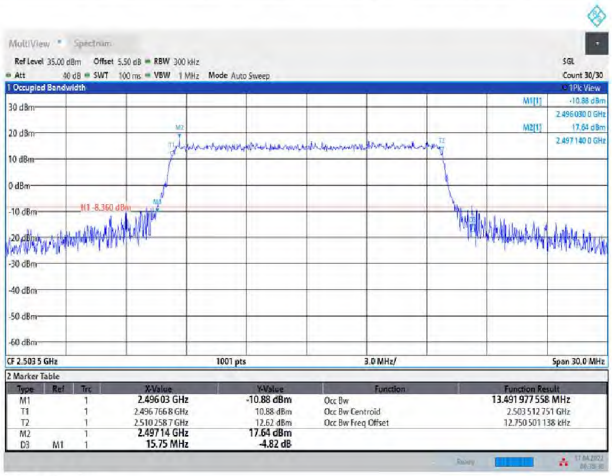

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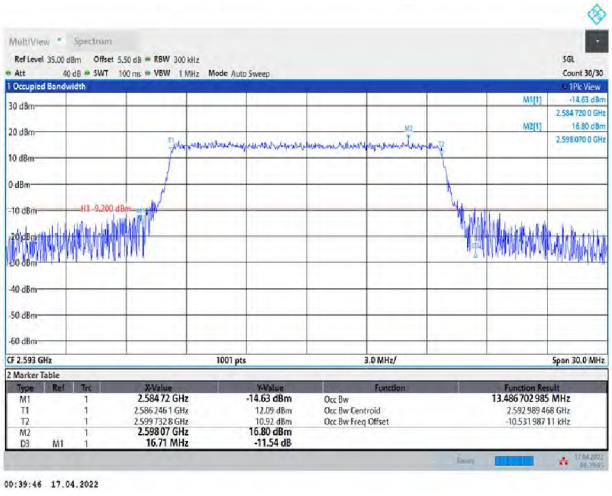

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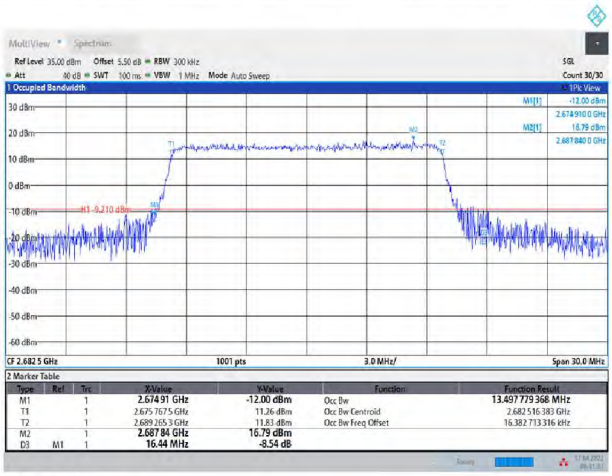

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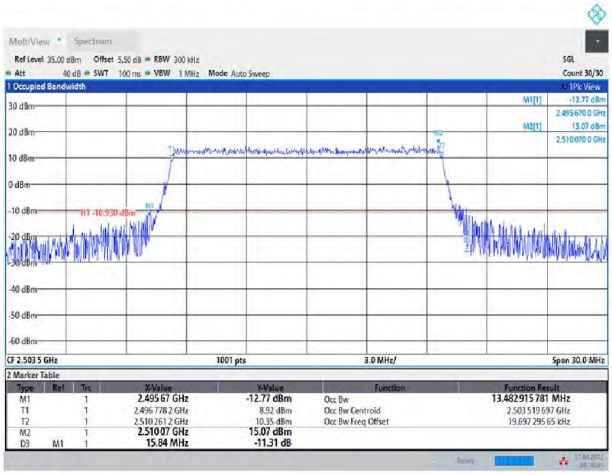

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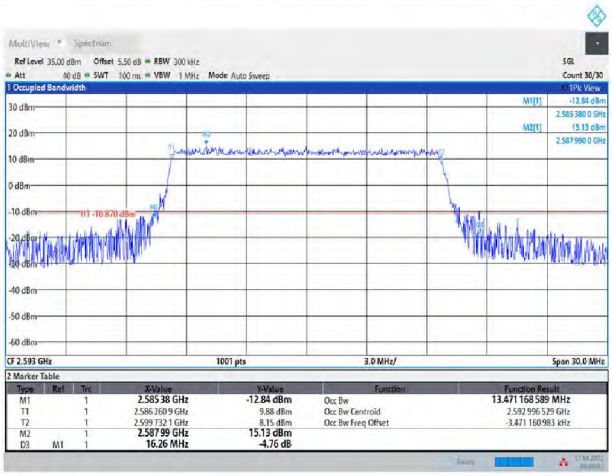

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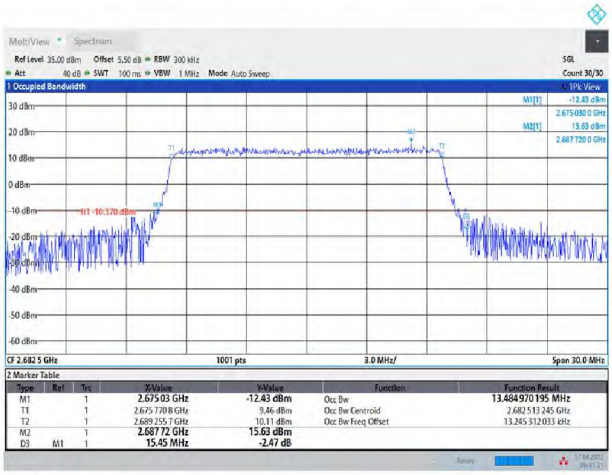

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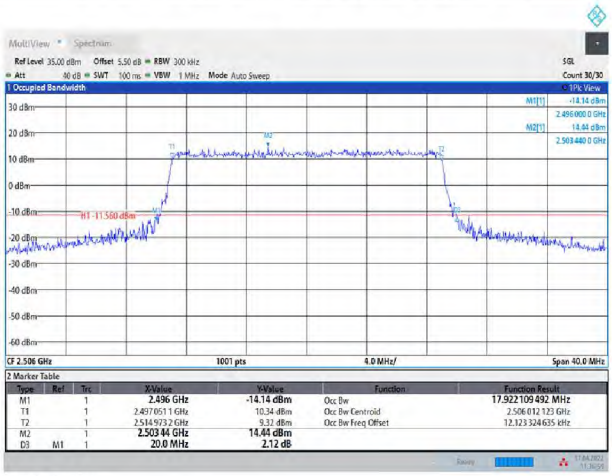

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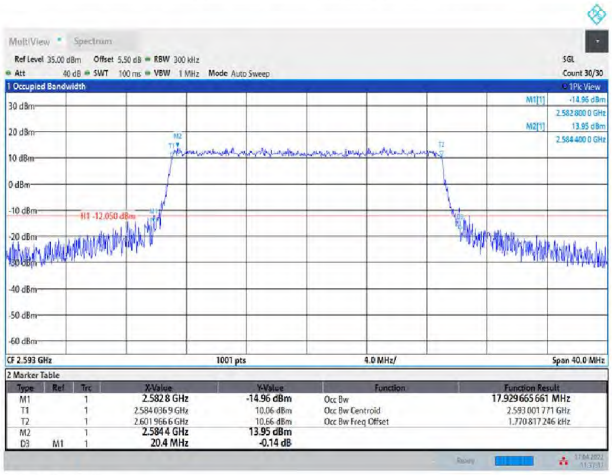

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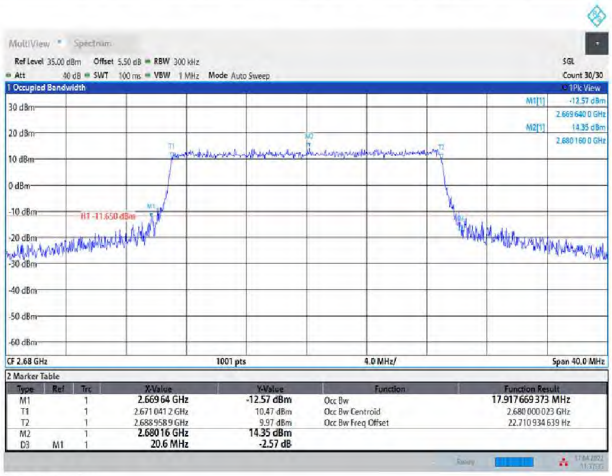

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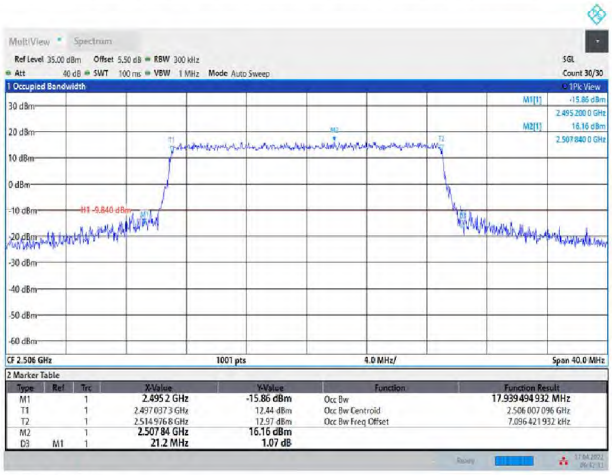

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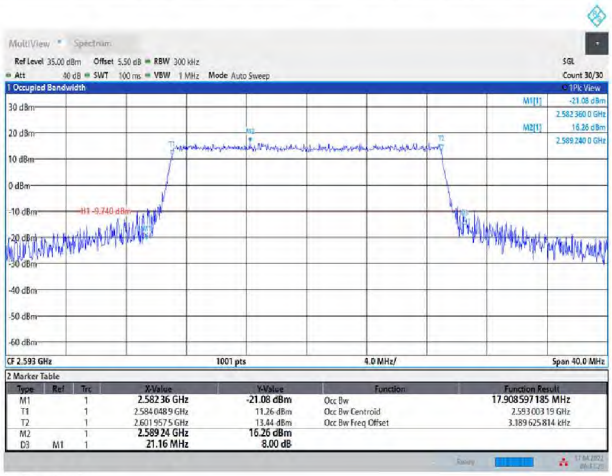

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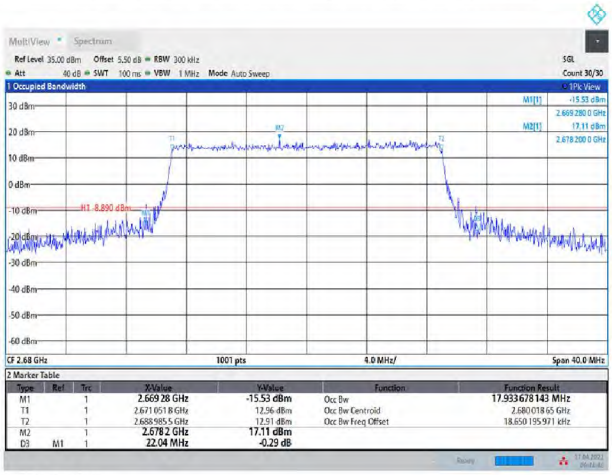

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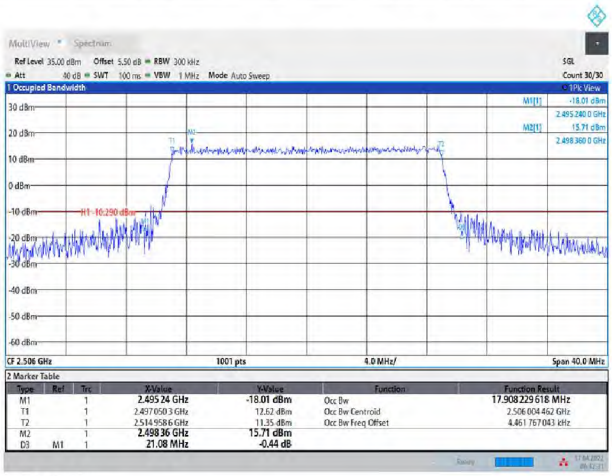

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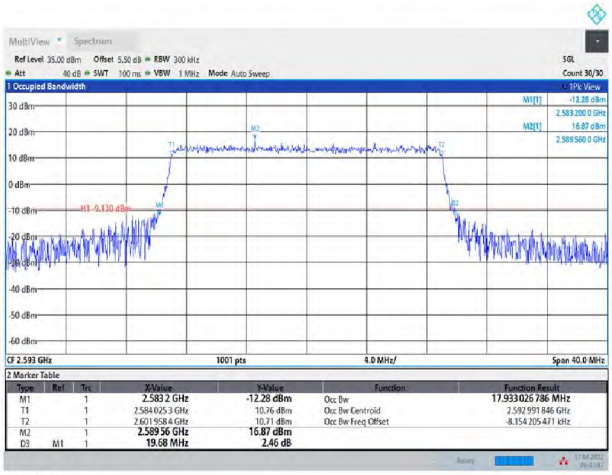

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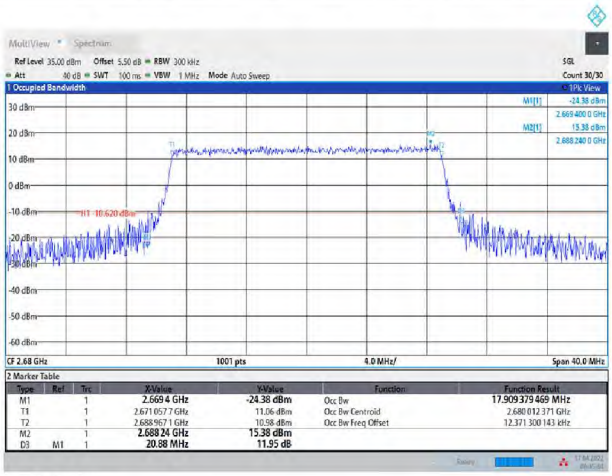

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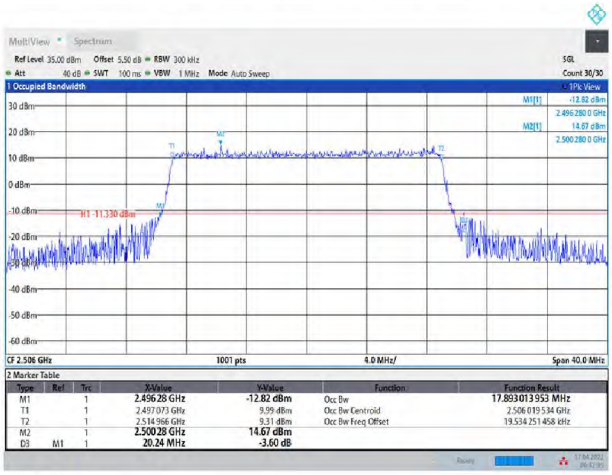

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Wireless Laboratory

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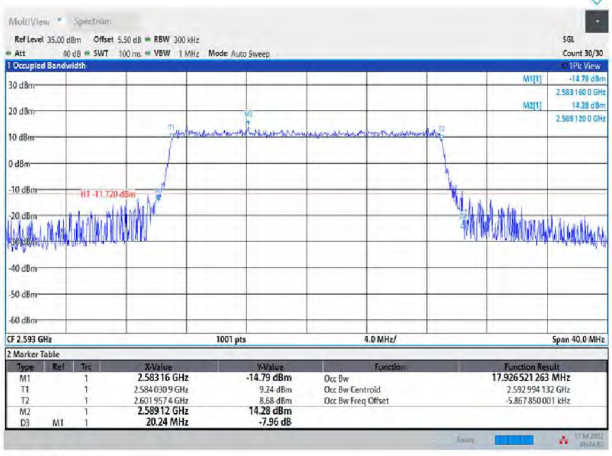
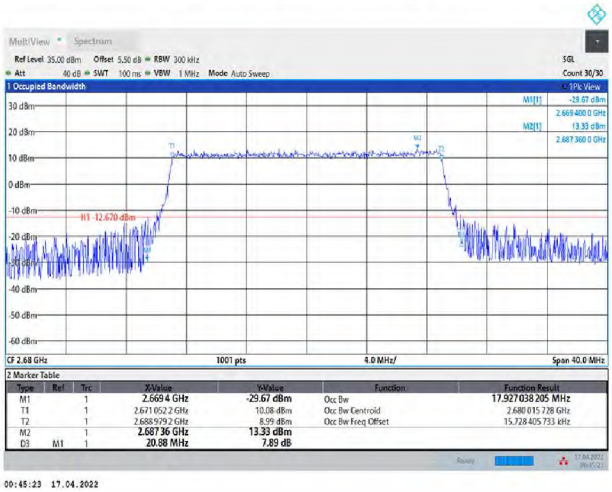
Band41-20MHz-256QAM-40620-100RB#0



Band41-20MHz-256QAM-41490-100RB#0



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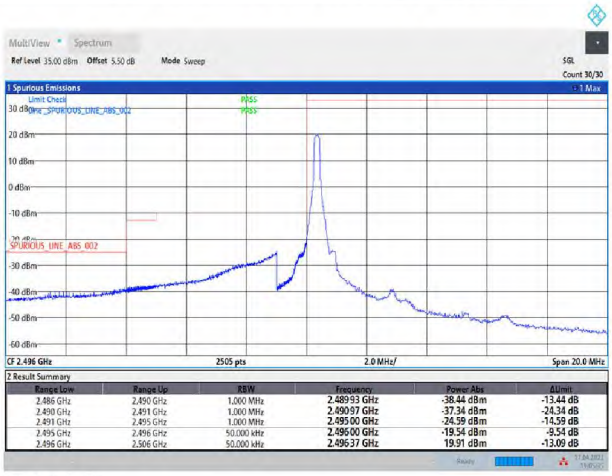
Band Edge

Test Graphs

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



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

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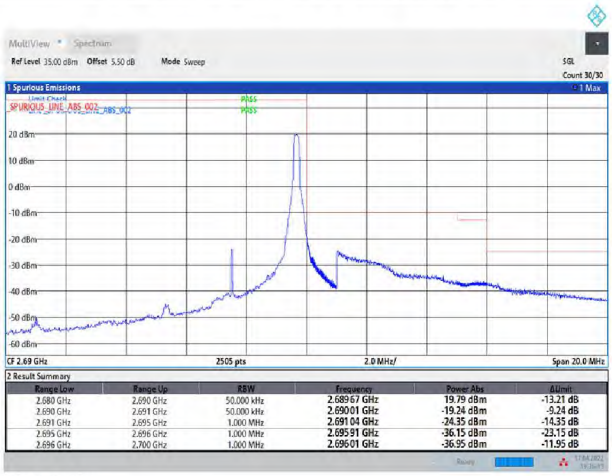

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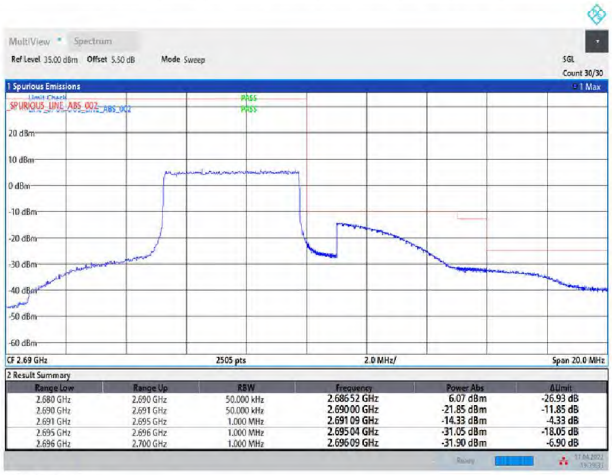

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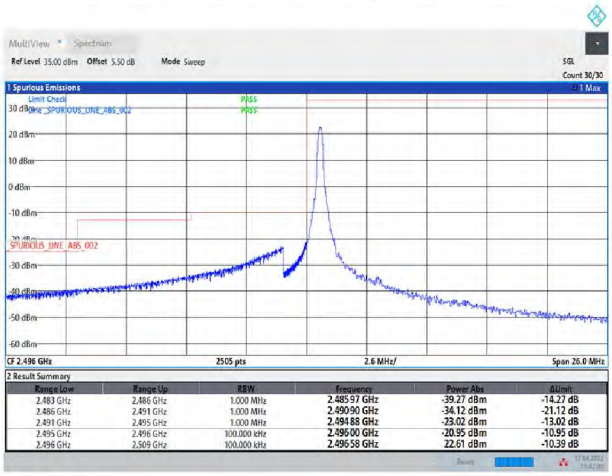
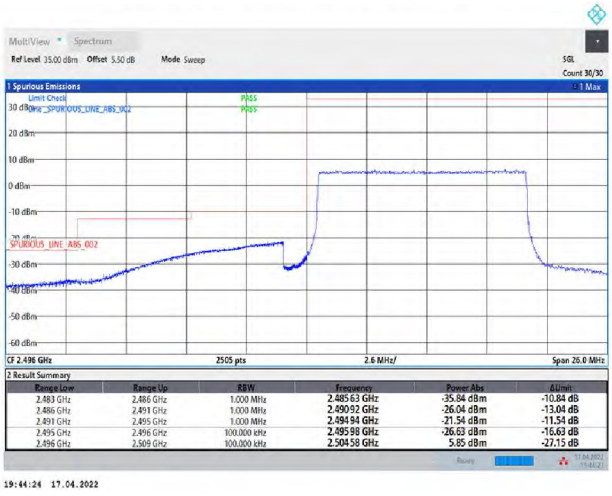
Band41-10MHz-QPSK-39700-1RB#0


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


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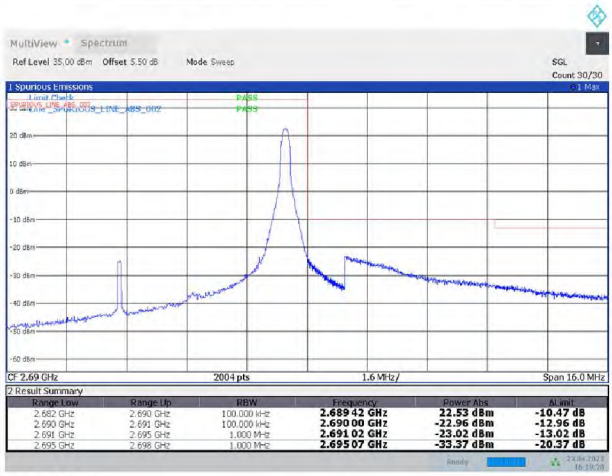
Band41-10MHz-QPSK-41540-1RB#49


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

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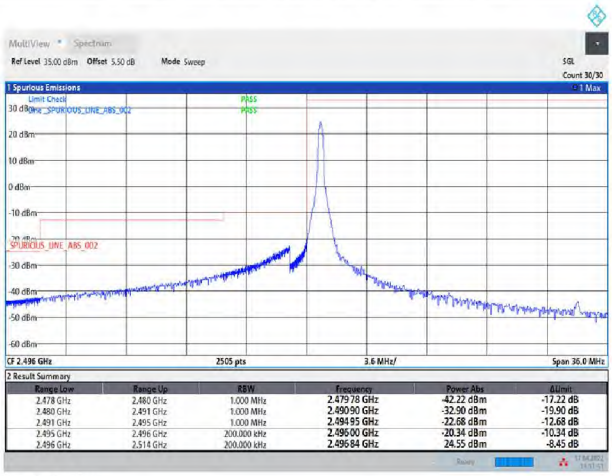
Band41-15MHz-QPSK-39725-1RB#0


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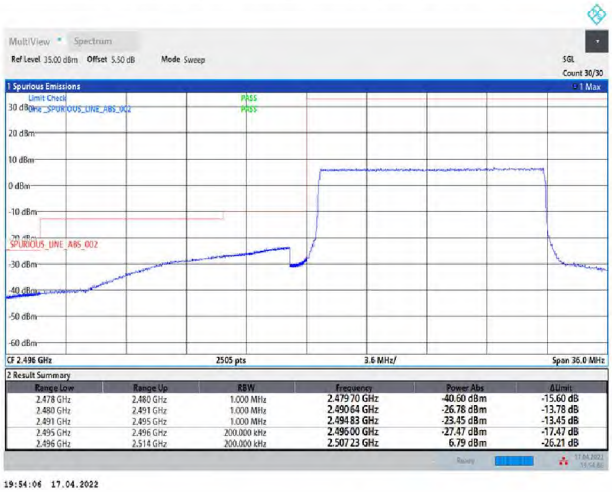

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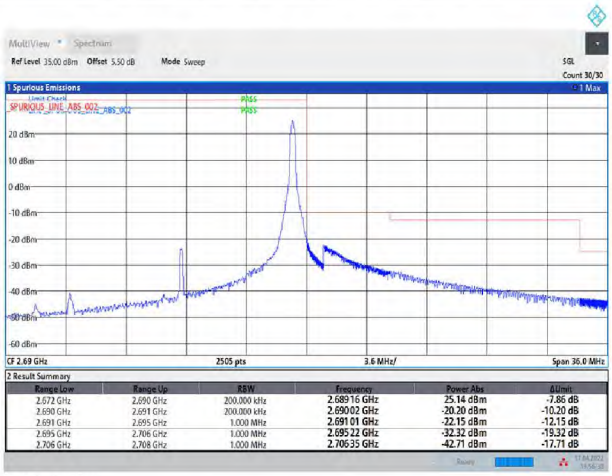
Band41-15MHz-QPSK-41515-1RB#74


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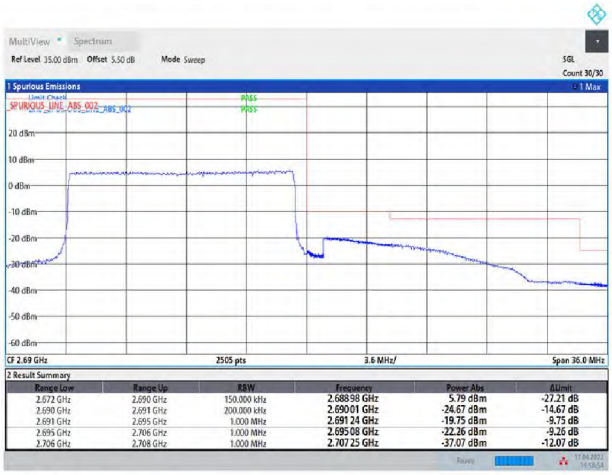

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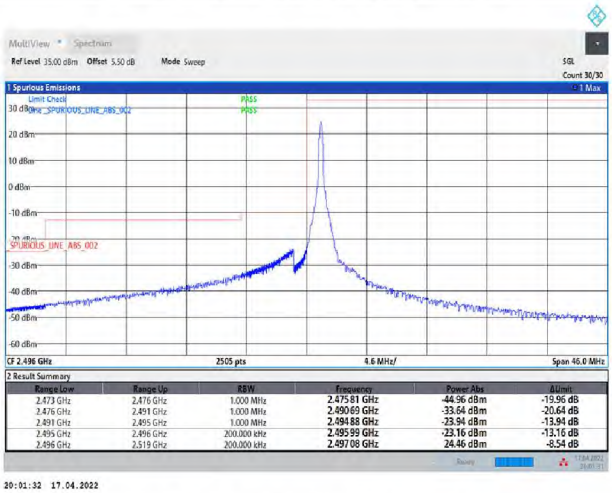

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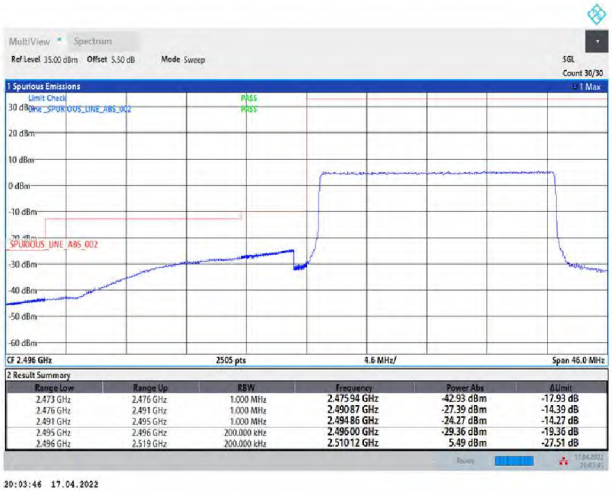

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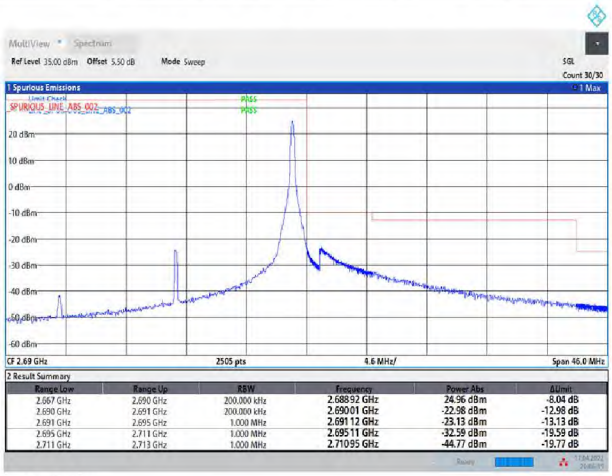
Band41-20MHz-QPSK-41490-1RB#99


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

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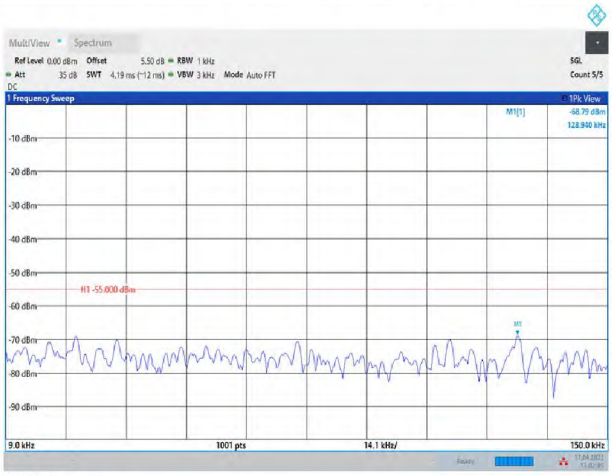
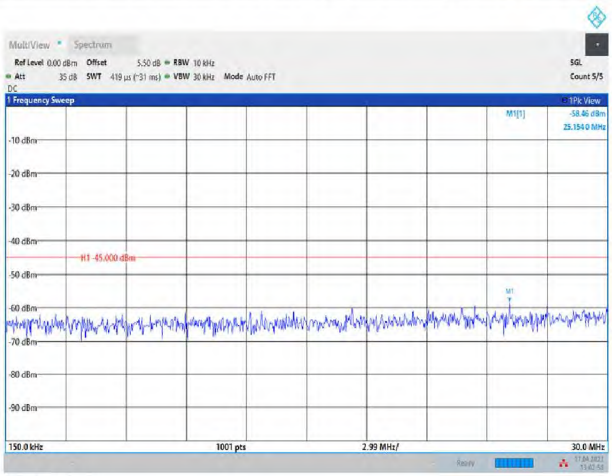
Conducted Spurious Emission

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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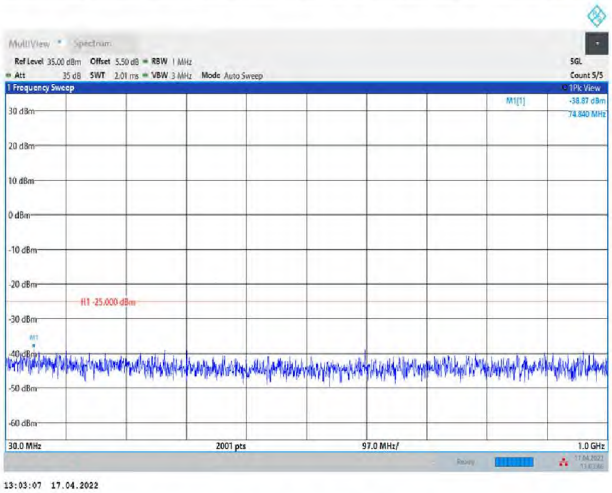
Member of the SGS Group (SGS SA)

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

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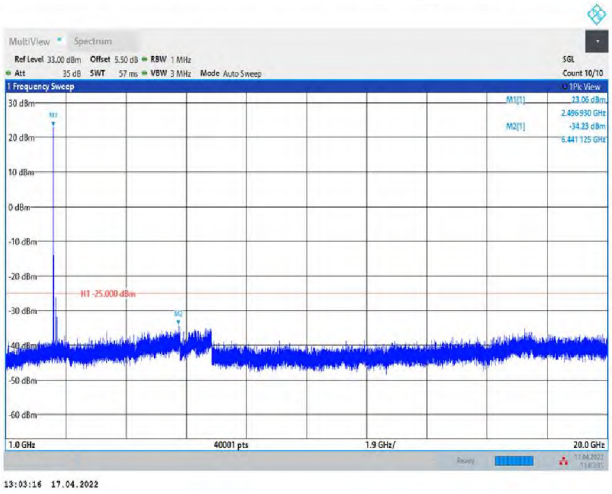

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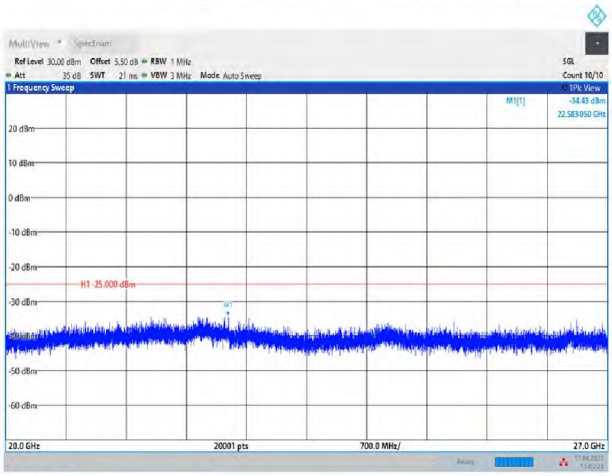
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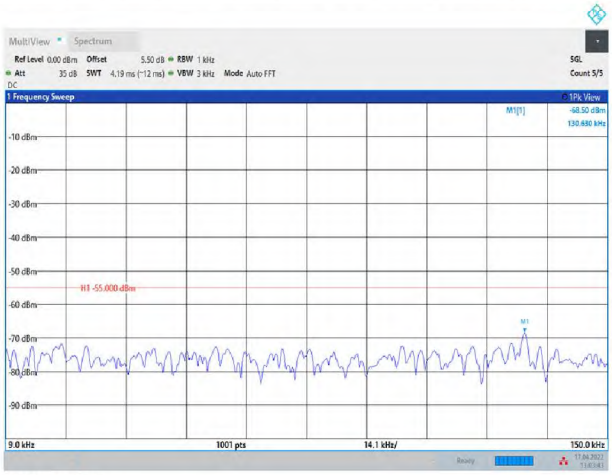

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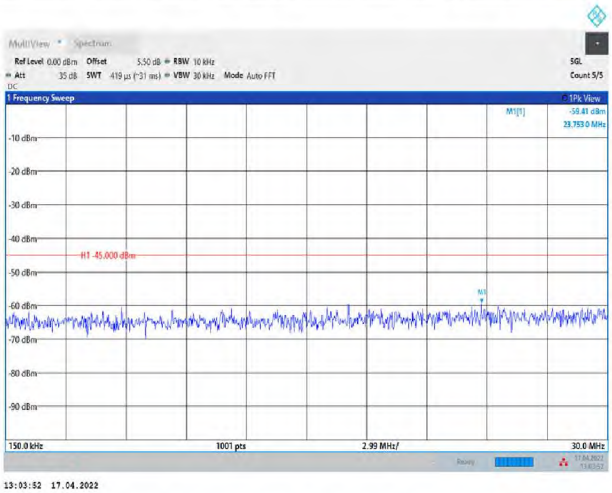
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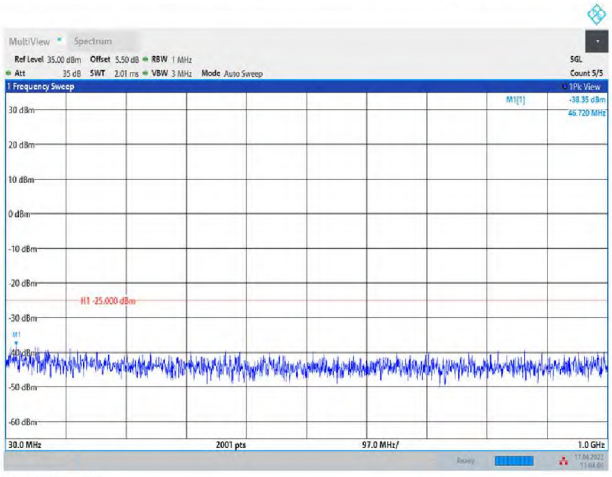

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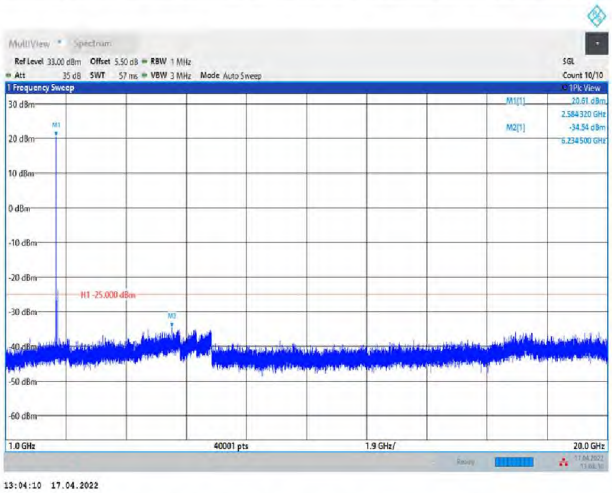
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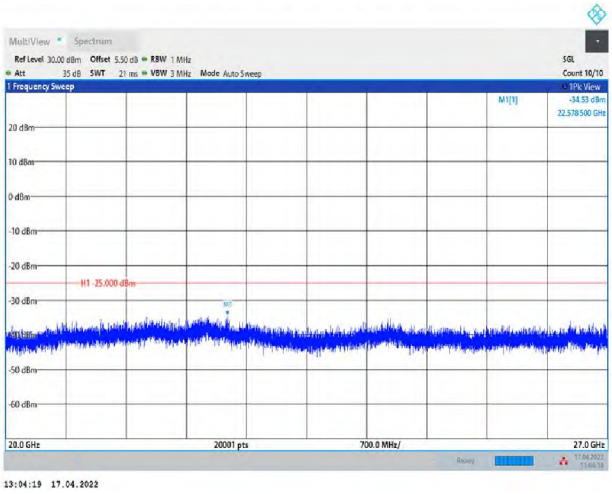

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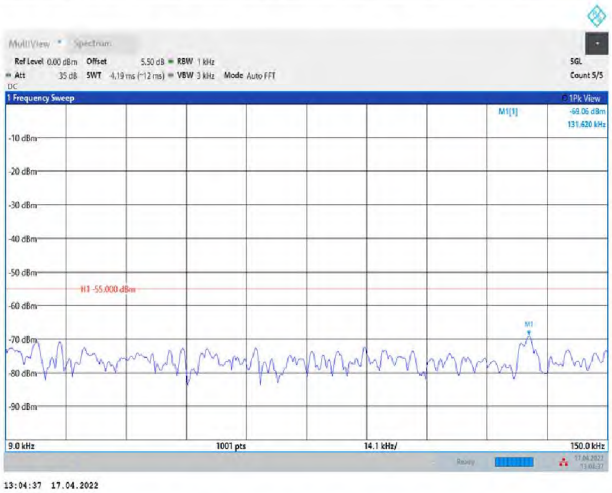
Band41-20MHz-QPSK-41490-1RB#0-Range1:0.009~0.15MHz

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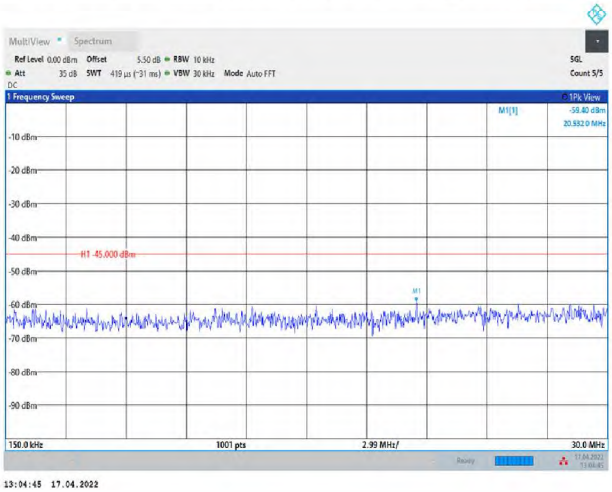

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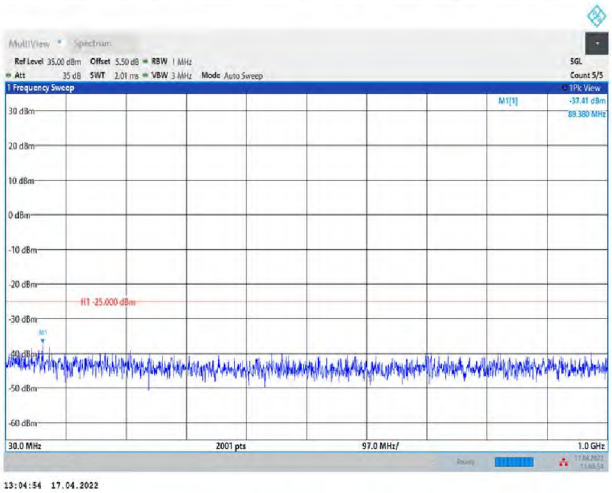
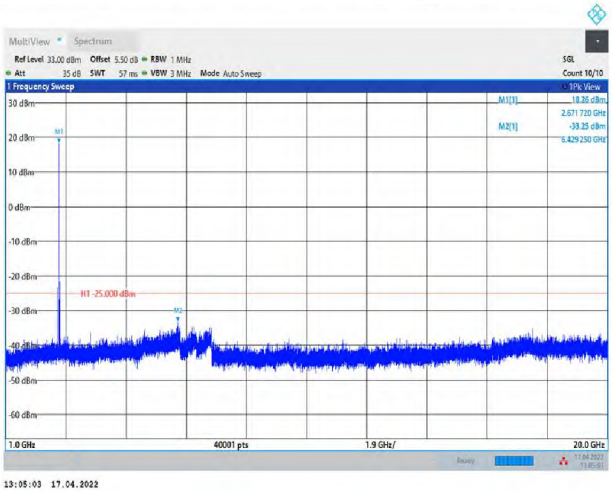
Band41-20MHz-QPSK-41490-1RB#0-Range3:30~1000MHz

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


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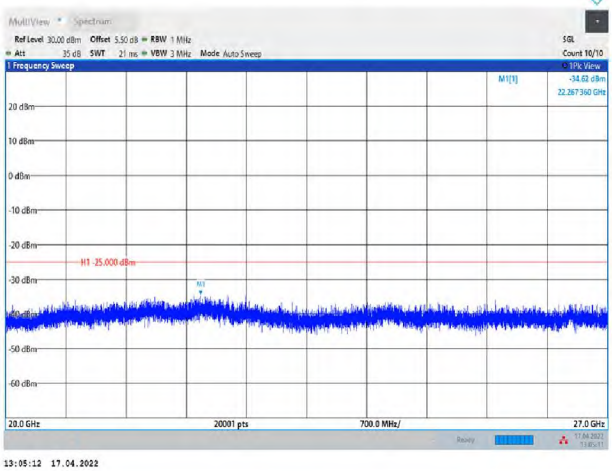
Band41-20MHz-QPSK-41490-1RB#0-Range5:20000~27000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 41_ TM1
Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.18	50.31	-107.58	-57.27	-25.00	32.27	263	0	Horizontal
2	7503.27	52.43	-100.34	-47.91	-25.00	22.91	251	201	Horizontal
3	10004.36	45.76	-93.89	-48.13	-25.00	23.13	176	260	Horizontal
4	12505.45	43.26	-91.38	-48.12	-25.00	23.12	265	52	Horizontal
5	15006.54	42.10	-90.07	-47.97	-25.00	22.97	175	357	Horizontal
6	17507.63	41.71	-86.50	-44.79	-25.00	19.79	284	100	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.18	51.06	-107.58	-56.52	-25.00	31.52	251	2	Vertical
2	7503.27	50.62	-100.34	-49.72	-25.00	24.72	174	40	Vertical
3	10004.36	45.47	-93.89	-48.42	-25.00	23.42	186	270	Vertical
4	12505.45	43.88	-91.38	-47.50	-25.00	22.50	264	0	Vertical
5	15006.54	42.36	-90.07	-47.71	-25.00	22.71	189	247	Vertical
6	17507.63	39.53	-86.50	-46.97	-25.00	21.97	264	211	Vertical

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Test Band = LTE Band 41_ TM1
Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5168.18	49.68	-106.85	-57.17	-25.00	32.17	263	315	Horizontal
2	7752.27	48.70	-99.21	-50.51	-25.00	25.51	241	9	Horizontal
3	10336.36	43.61	-93.09	-49.48	-25.00	24.48	176	95	Horizontal
4	12920.45	43.15	-90.61	-47.46	-25.00	22.46	265	0	Horizontal
5	15504.54	40.82	-90.87	-50.05	-25.00	25.05	241	199	Horizontal
6	17762.1429	42.81	-84.48	-41.67	-25.00	16.67	189	246	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5168.18	51.38	-106.85	-55.47	-25.00	30.47	251	270	Vertical
2	7752.27	49.85	-99.21	-49.36	-25.00	24.36	142	338	Vertical
3	10336.36	43.75	-93.09	-49.34	-25.00	24.34	263	350	Vertical
4	12920.45	43.38	-90.61	-47.23	-25.00	22.23	298	357	Vertical
5	15504.54	40.85	-90.87	-50.02	-25.00	25.02	176	270	Vertical
6	17843.5714	41.85	-84.20	-42.35	-25.00	17.35	240	212	Vertical

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Test Band = LTE Band 41_ TM1
Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5342.18	50.91	-106.75	-55.84	-25.00	30.84	263	62	Horizontal
2	8013.27	45.70	-98.13	-52.43	-25.00	27.43	251	223	Horizontal
3	10684.36	43.53	-91.77	-48.24	-25.00	23.24	142	2	Horizontal
4	13355.45	42.76	-90.59	-47.83	-25.00	22.83	262	327	Horizontal
5	16026.54	43.04	-90.77	-47.73	-25.00	22.73	284	357	Horizontal
6	17880	42.65	-84.15	-41.50	-25.00	16.50	176	186	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5342.18	51.21	-106.75	-55.54	-25.00	30.54	263	235	Vertical
2	8013.27	48.65	-98.13	-49.48	-25.00	24.48	241	178	Vertical
3	10684.36	43.73	-91.77	-48.04	-25.00	23.04	176	178	Vertical
4	13355.45	42.14	-90.59	-48.45	-25.00	23.45	264	132	Vertical
5	16026.54	41.43	-90.77	-49.34	-25.00	24.34	186	0	Vertical
6	17865	42.79	-84.17	-41.38	-25.00	16.38	244	5	Vertical

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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	0.60	0.000231	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	-1.60	-0.000617	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	-2.70	-0.001041	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	-1.40	-0.000540	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	-0.30	-0.000116	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	-0.20	-0.000077	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	-2.60	-0.001003	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	-0.20	-0.000077	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	-0.40	-0.000154	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	-0.50	-0.000193	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	-2.20	-0.000848	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	-1.30	-0.000501	PASS

The End

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