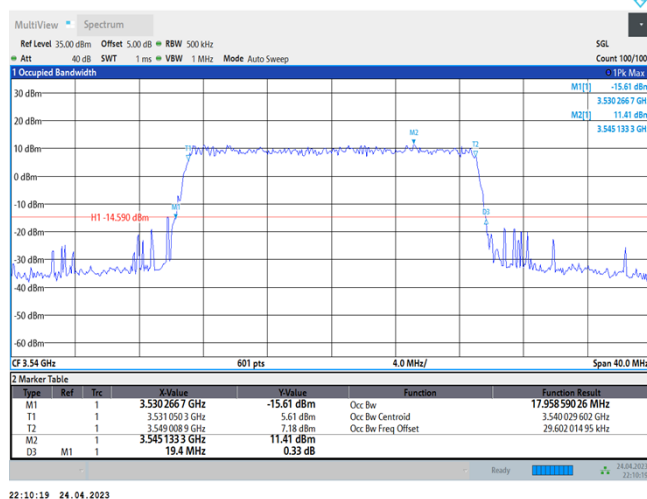


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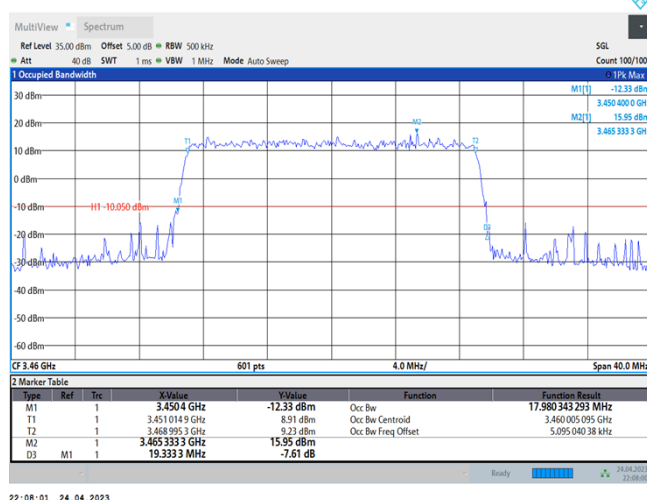
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22:10:19 24.04.2023

Band42-20MHz-16QAM-42190-100RB#0



22:08:01 24.04.2023



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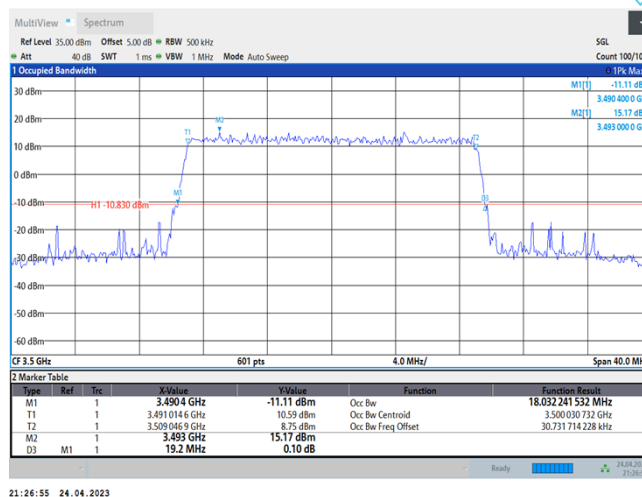
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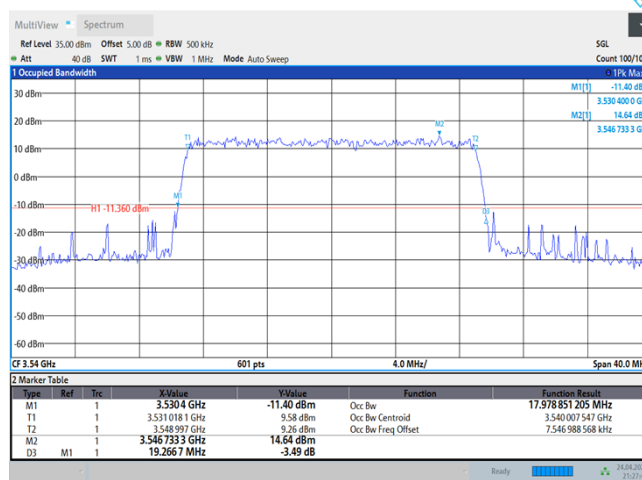
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21:26:55 24.04.2023

Band42-20MHz-16QAM-42990-100RB#0



21:27:50 24.04.2023



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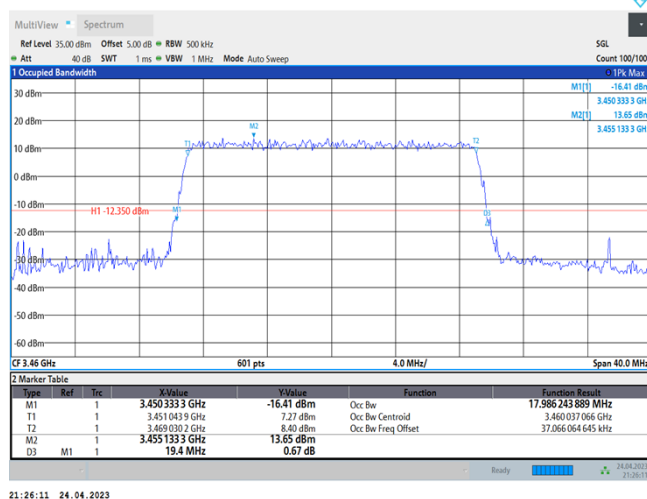
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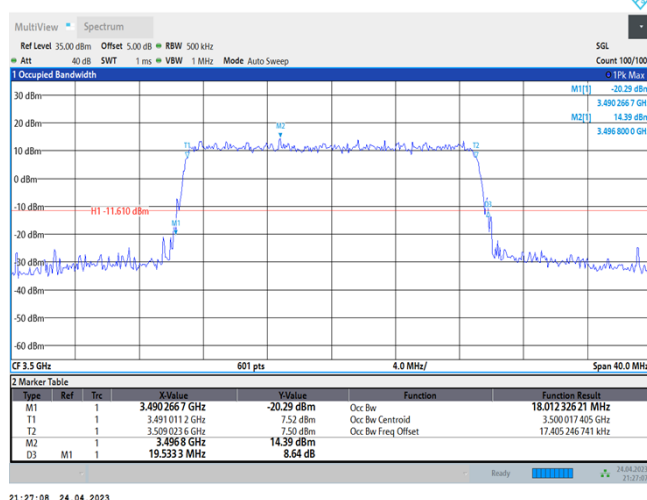
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Band42-20MHz-64QAM-42190-100RB#0



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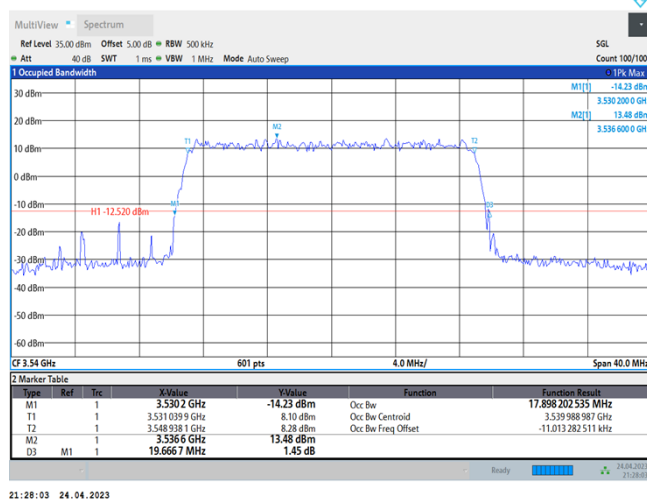
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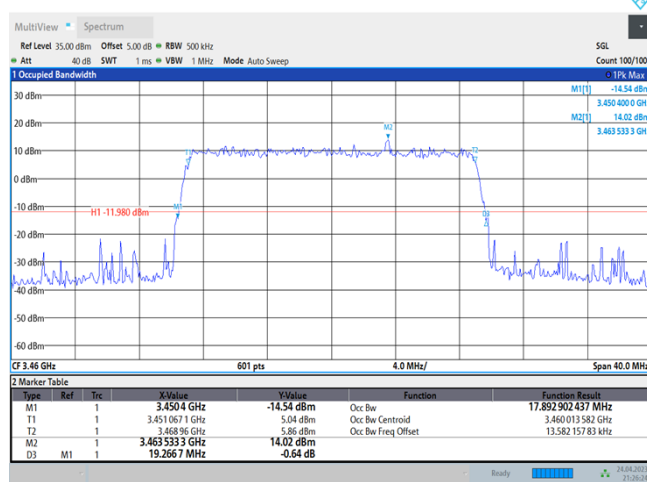
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21:28:03 24.04.2023

Band42-20MHz-256QAM-42190-100RB#0



21:26:24 24.04.2023



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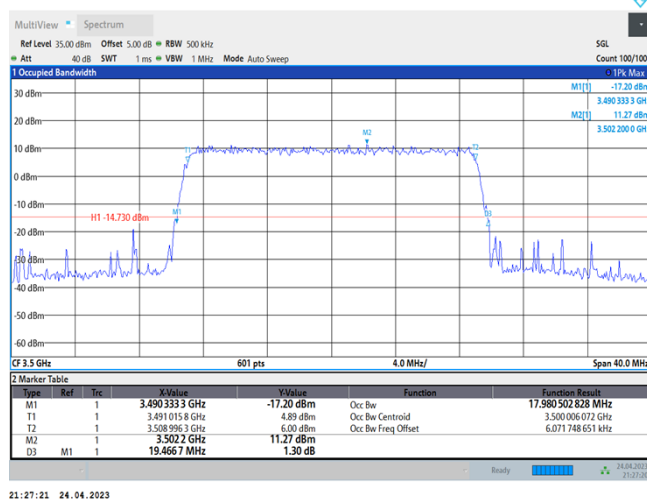
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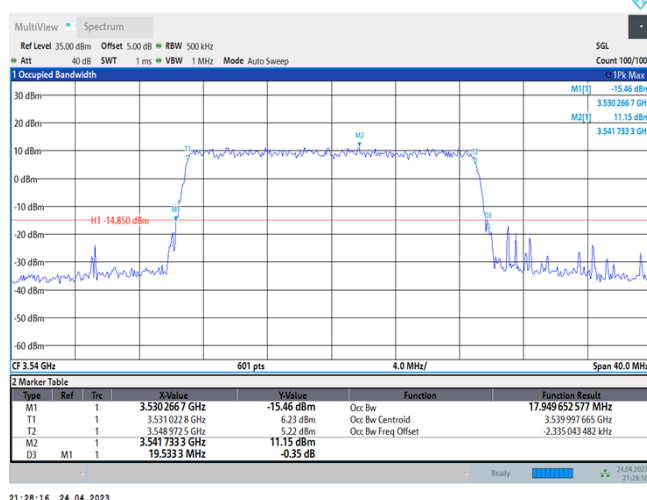
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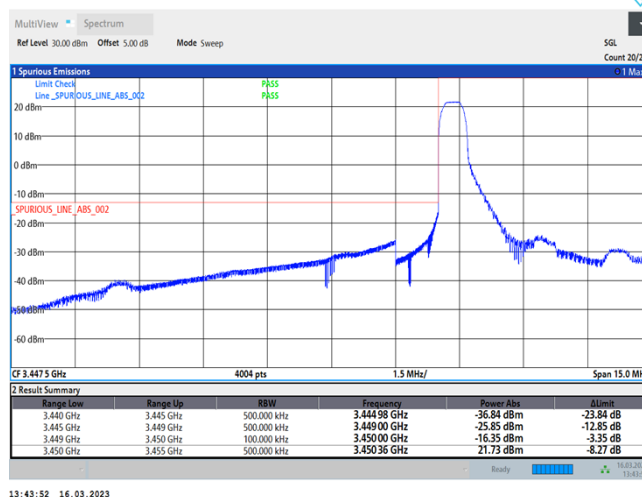
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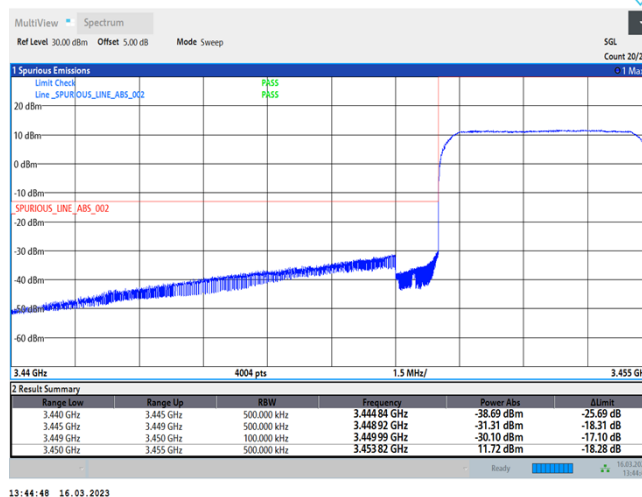
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Test Graphs

Band42-5MHz-QPSK-42115-1RB#0



Band42-5MHz-QPSK-42115-25RB#0



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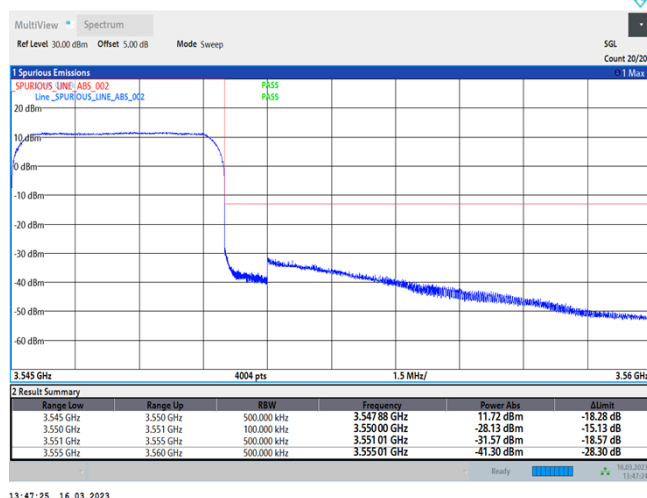
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Band42-5MHz-QPSK-43065-1RB#24



Band42-5MHz-QPSK-43065-25RB#0



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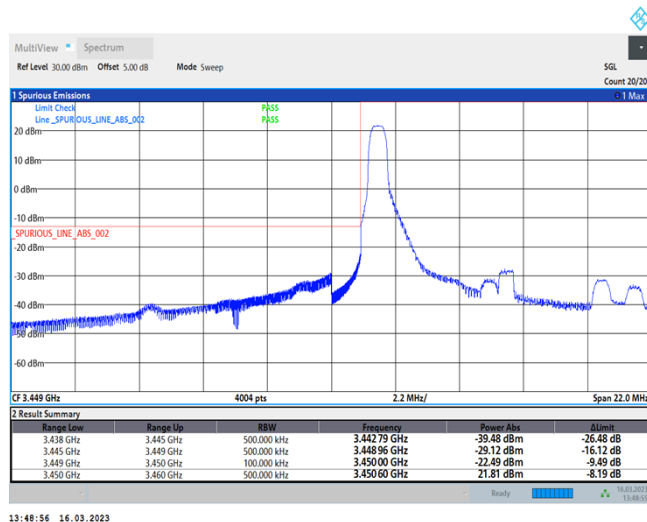
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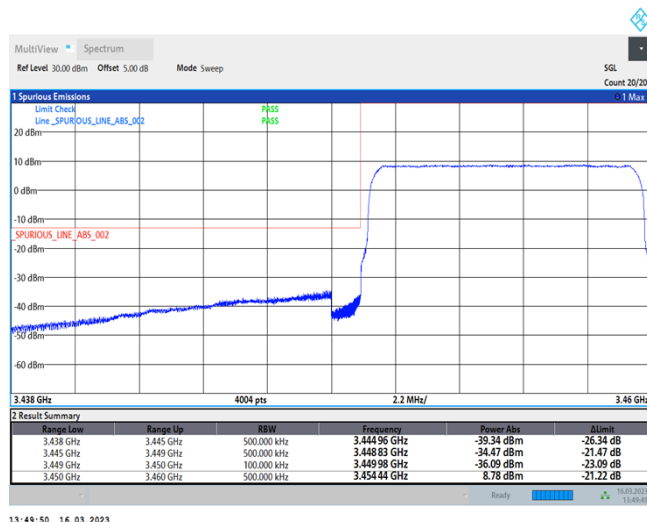
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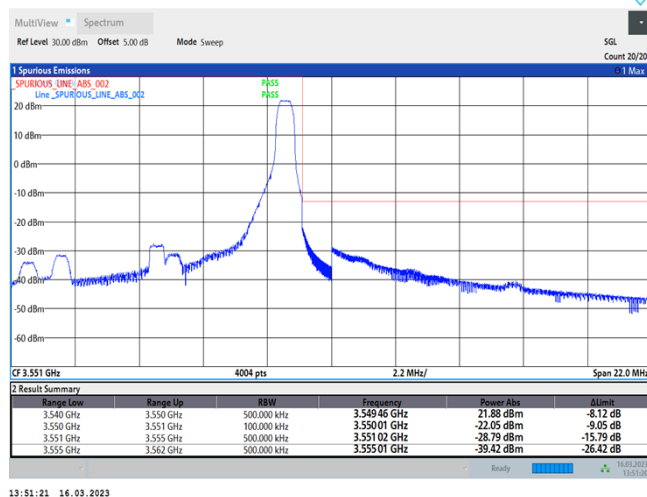
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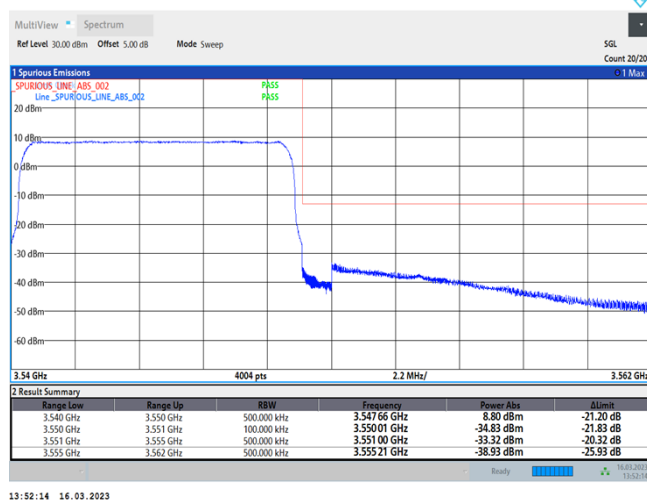
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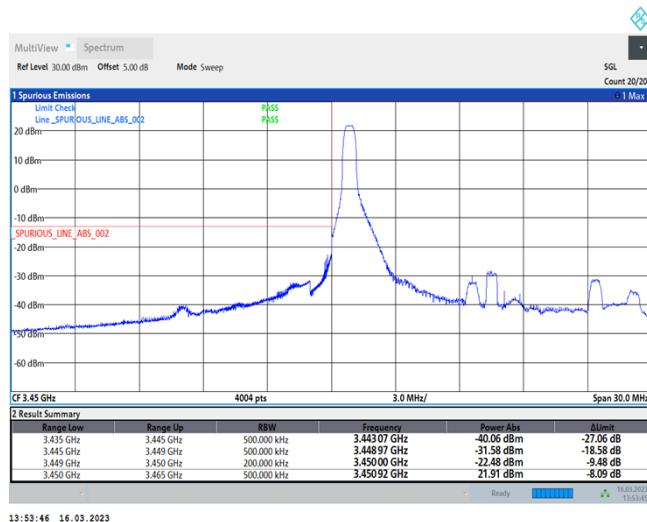
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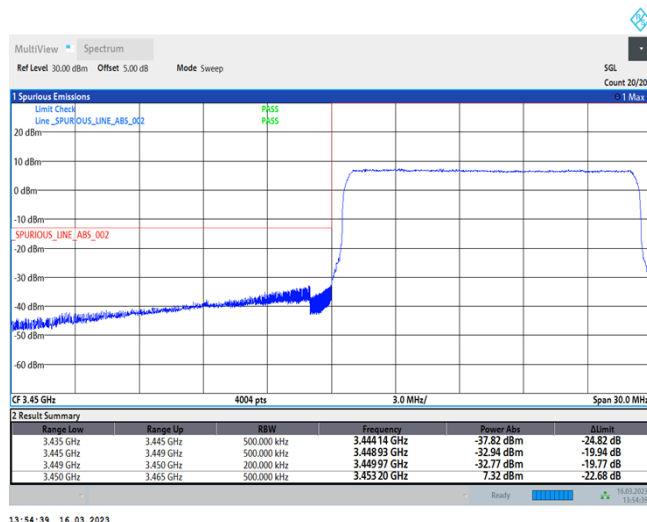
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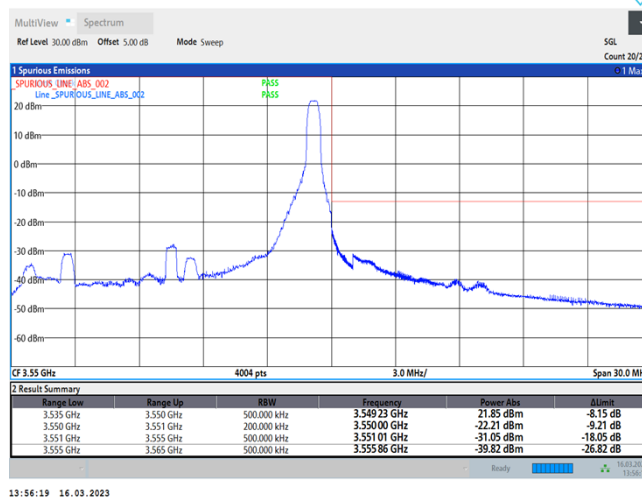
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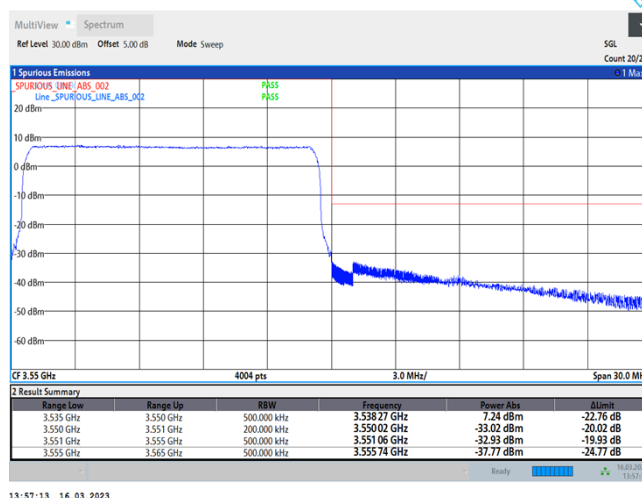
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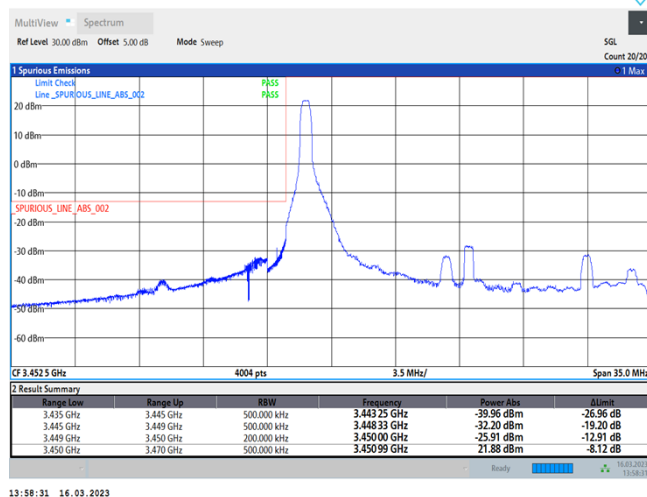
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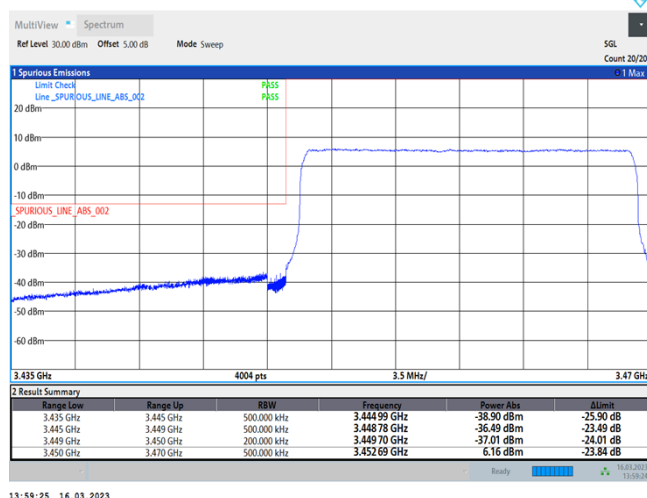
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Band42-20MHz-QPSK-42190-100RB#0



13:59:25 16.03.2023



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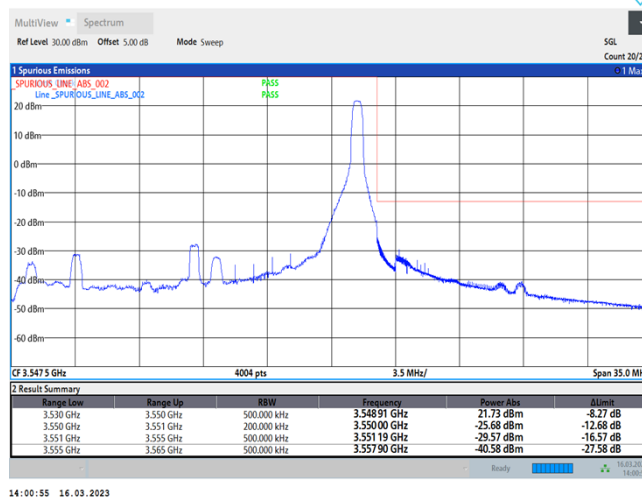
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Rev.: 01

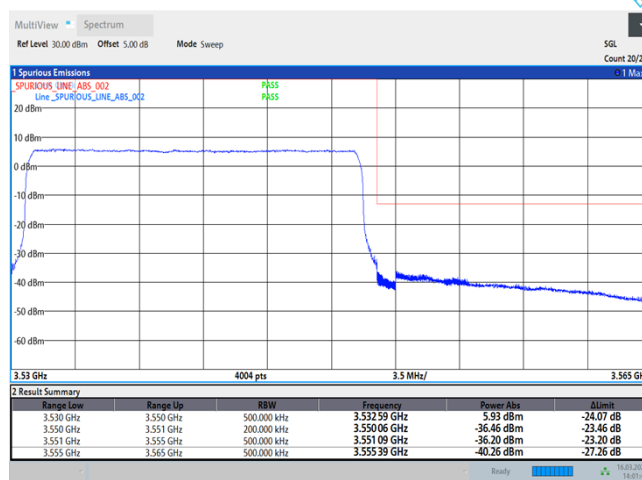
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Band42-20MHz-QPSK-42990-1RB#99



14:00:55 16.03.2023

Band42-20MHz-QPSK-42990-100RB#0



14:01:48 16.03.2023



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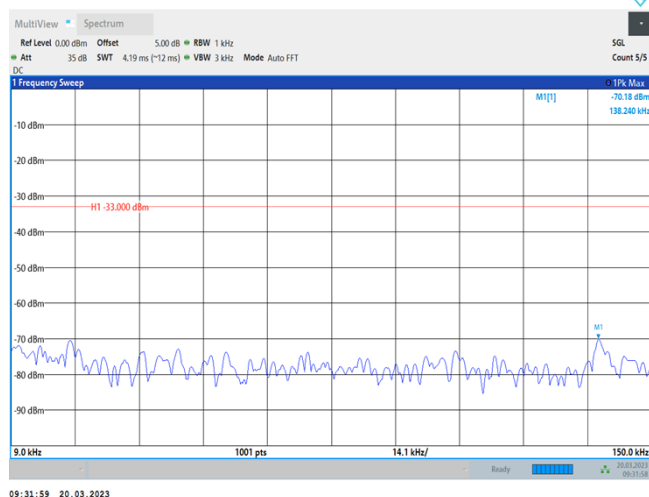
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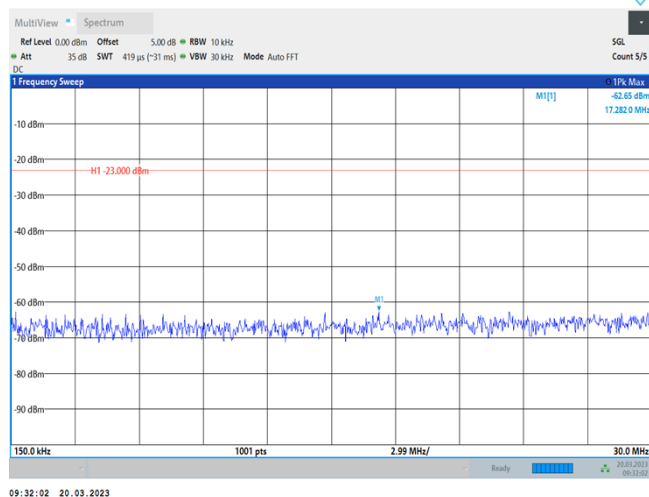
Conducted Spurious Emission

Test Graphs

Band42-20MHz-QPSK-42190-1RB#0-Range1:0.009~0.15MHz



Band42-20MHz-QPSK-42190-1RB#0-Range2:0.15~30MHz



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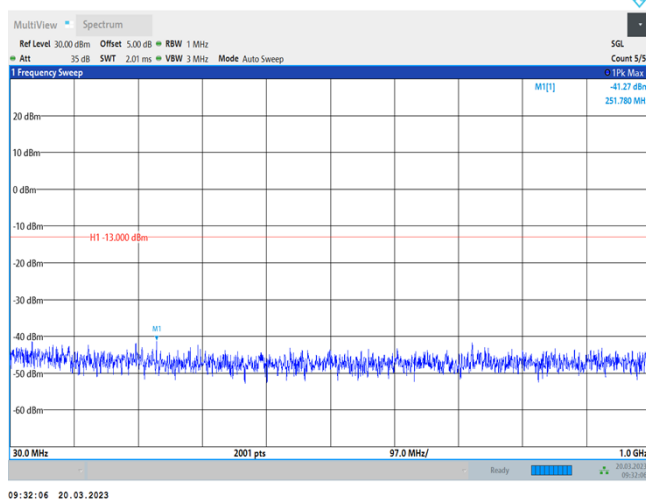
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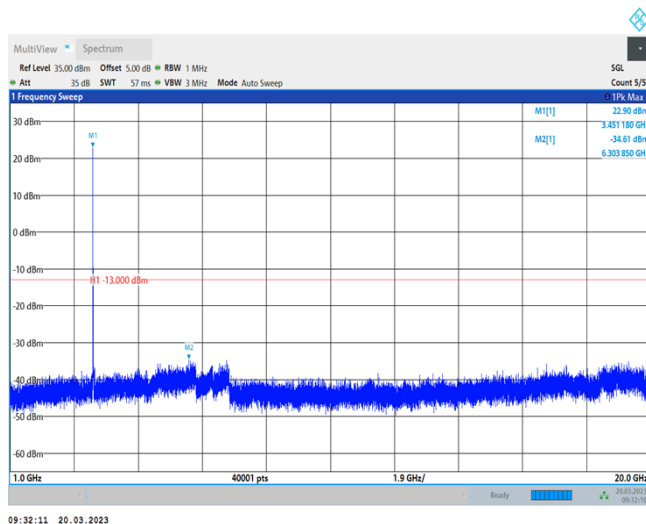
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Band42-20MHz-QPSK-42190-1RB#0-Range3:30~1000MHz



Band42-20MHz-QPSK-42190-1RB#0-Range4:1000~20000MHz



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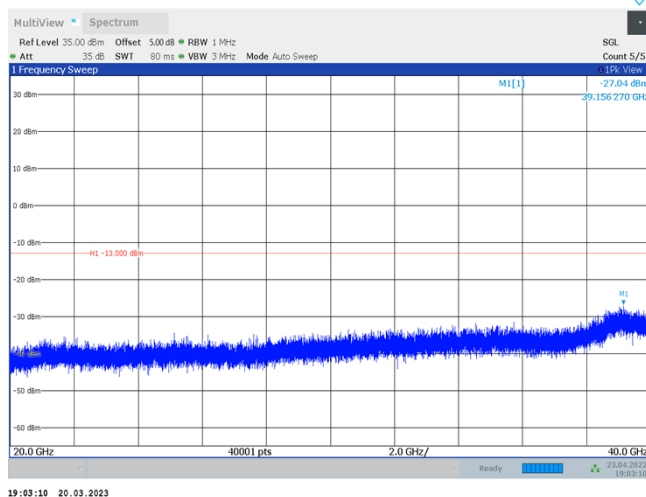
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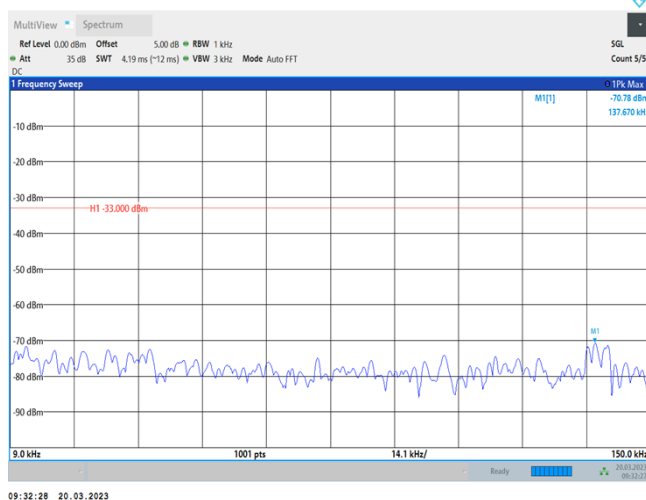
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Band42-20MHz-QPSK-42190-1RB#0-Range5:20000~40000MHz



Band42-20MHz-QPSK-42590-1RB#0-Range1:0.009~0.15MHz



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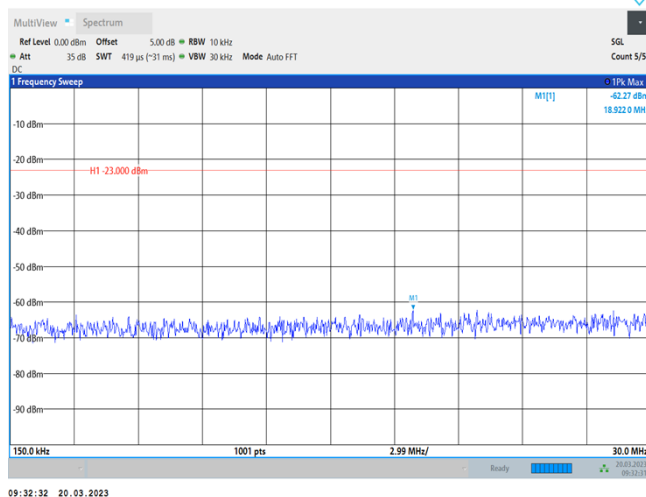
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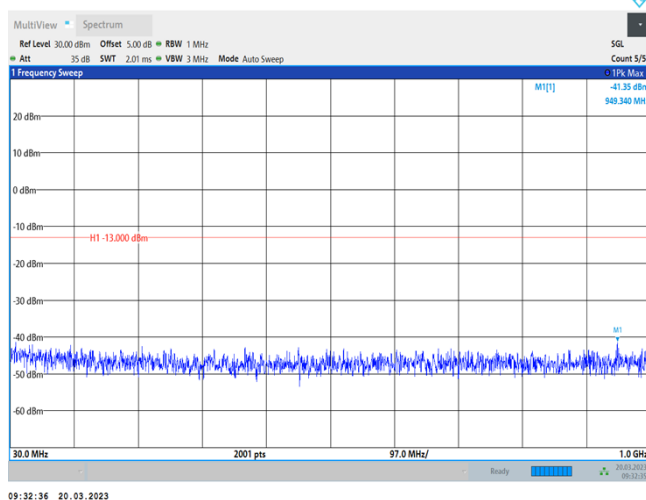
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Band42-20MHz-QPSK-42590-1RB#0-Range2:0.15~30MHz



Band42-20MHz-QPSK-42590-1RB#0-Range3:30~1000MHz



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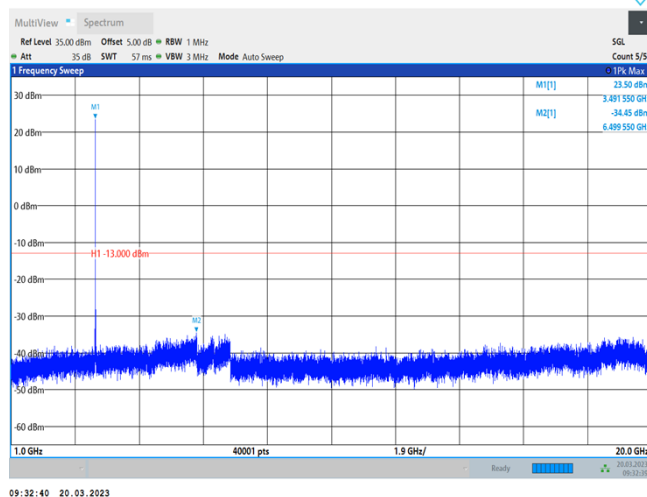
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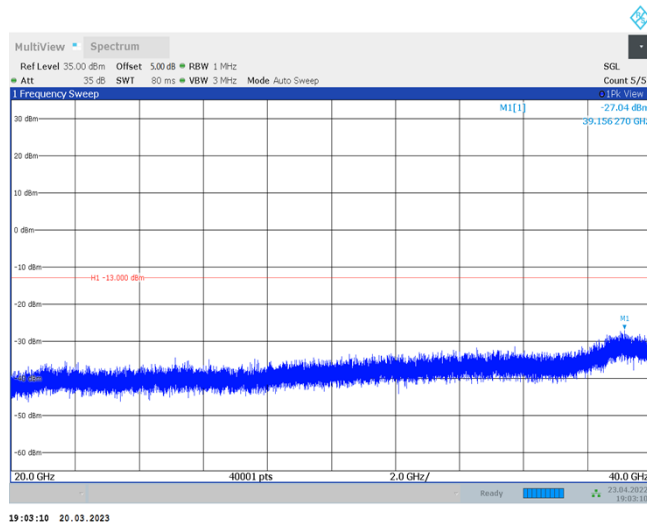
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Band42-20MHz-QPSK-42590-1RB#0-Range4:1000~20000MHz



Band42-20MHz-QPSK-42590-1RB#0-Range5:20000~40000MHz



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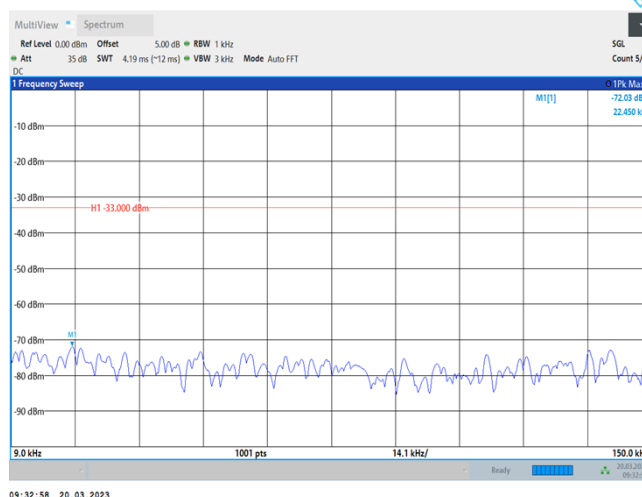
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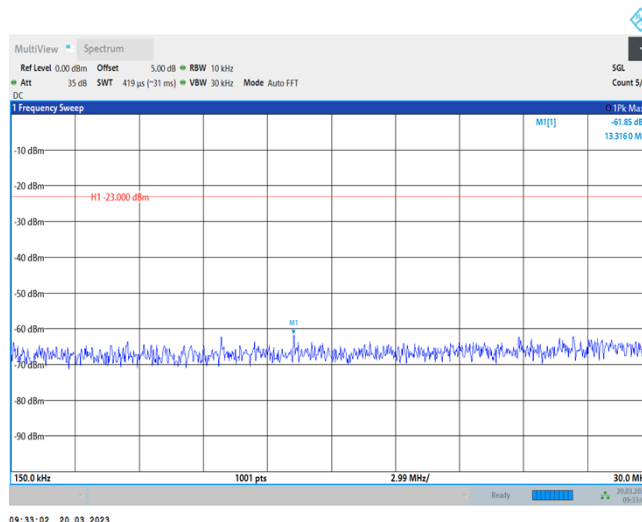
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Band42-20MHz-QPSK-42990-1RB#0-Range1:0.009~0.15MHz



Band42-20MHz-QPSK-42990-1RB#0-Range2:0.15~30MHz



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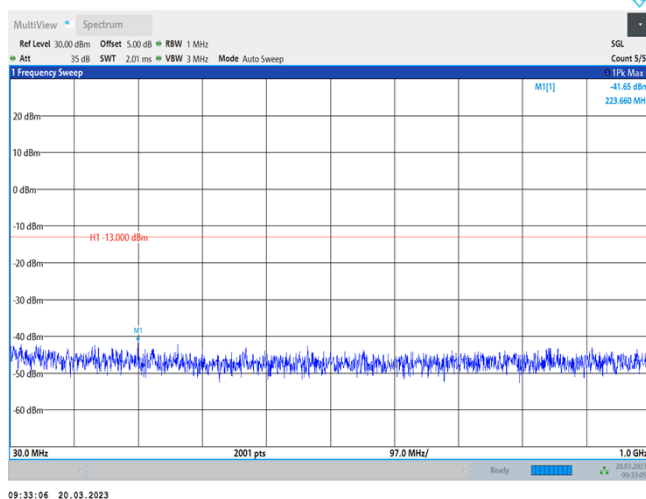
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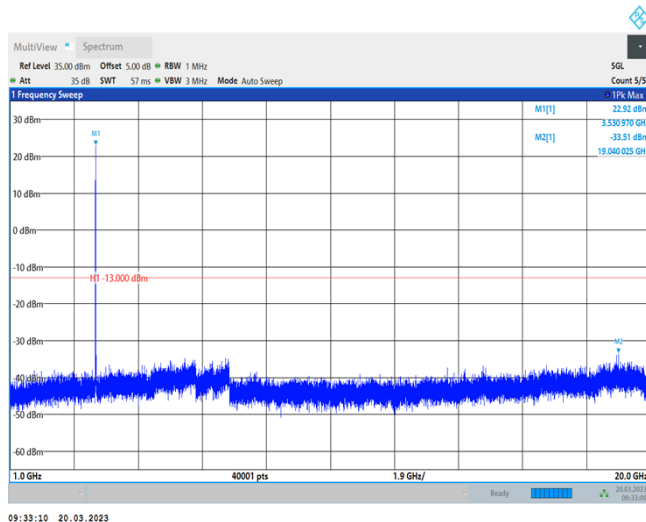
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Band42-20MHz-QPSK-42990-1RB#0-Range3:30~1000MHz



Band42-20MHz-QPSK-42990-1RB#0-Range4:1000~20000MHz



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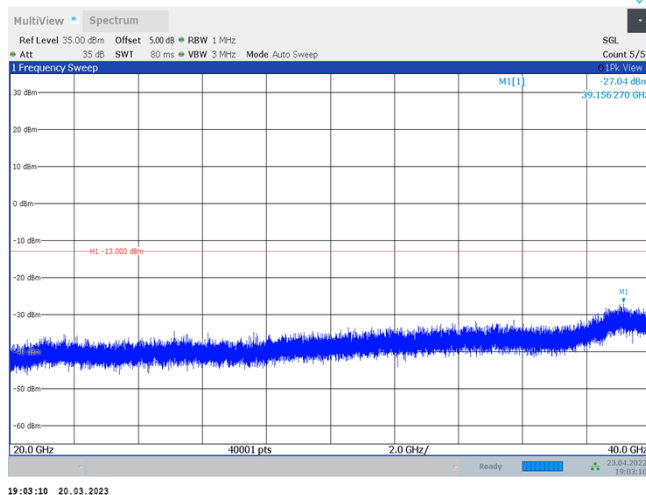
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Band42-20MHz-QPSK-42990-1RB#0-Range5:20000~40000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 42 _20MHz_3450~3550_ 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	6037	43.49	-44.48	34.14	-62.10	-13.00	49.10	179	352	Horizontal
2	6902.1800	41.98	-43.85	35.96	-61.17	-13.00	48.17	217	360	Horizontal
3	9366.0833	40.44	-39.73	38.46	-56.09	-13.00	43.09	148	244	Horizontal
4	10353.2700	36.38	-39.07	38.85	-59.11	-13.00	46.11	229	79	Horizontal
5	13804.3600	35.20	-36.14	39.96	-56.23	-13.00	43.23	265	325	Horizontal
6	17255.4500	34.96	-35.27	38.68	-56.89	-13.00	43.89	173	292	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	5156.1667	46.23	-45.29	32.97	-61.36	-13.00	48.36	274	97	Vertical
2	6902.0833	47.04	-43.86	35.96	-56.11	-13.00	43.11	196	114	Vertical
3	9320.5833	39.80	-39.97	38.43	-57.00	-13.00	44.00	251	244	Vertical
4	10353.2700	36.82	-39.07	38.85	-58.67	-13.00	45.67	168	114	Vertical
5	13804.3600	35.11	-36.14	39.96	-56.32	-13.00	43.32	256	79	Vertical
6	17255.4500	35.04	-35.27	38.68	-56.81	-13.00	43.81	233	359	Vertical



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Test Band = LTE Band 42_20MHz_ 3450~3550_ 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	4843.5	50.61	-45.23	32.44	-57.44	-13.00	44.44	258	64	Horizontal
2	6982.1800	42.58	-43.32	36.06	-59.95	-13.00	46.95	305	245	Horizontal
3	9360.8333	40.37	-39.76	38.46	-56.19	-13.00	43.19	179	195	Horizontal
4	10473.2700	36.39	-38.72	38.93	-58.66	-13.00	45.66	244	357	Horizontal
5	13964.3600	33.84	-35.74	40.11	-57.05	-13.00	44.05	185	64	Horizontal
6	17455.4500	33.87	-35.00	39.05	-57.35	-13.00	44.35	205	260	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	5156.1667	45.42	-45.29	32.97	-62.17	-13.00	49.17	285	82	Vertical
2	6982.1800	44.42	-43.32	36.06	-58.11	-13.00	45.11	169	146	Vertical
3	7969	45.74	-42.42	36.97	-54.97	-13.00	41.97	138	212	Vertical
4	10473.2700	36.55	-38.72	38.93	-58.50	-13.00	45.50	256	359	Vertical
5	13964.3600	34.18	-35.74	40.11	-56.71	-13.00	43.71	274	294	Vertical
6	17455.4500	34.17	-35.00	39.05	-57.05	-13.00	44.05	184	3	Vertical



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Test Band = LTE Band 42 _20MHz_3450~3550_ 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	5300.8333	43.49	-44.86	32.89	-63.74	-13.00	50.74	400	115	Horizontal
2	7062.1800	40.03	-43.75	36.24	-62.74	-13.00	49.74	228	82	Horizontal
3	9367.8333	39.67	-39.72	38.47	-56.84	-13.00	43.84	156	295	Horizontal
4	10593.2700	35.64	-38.68	39.05	-59.25	-13.00	46.25	213	245	Horizontal
5	14124.3600	32.80	-35.49	40.20	-57.76	-13.00	44.76	149	34	Horizontal
6	17655.4500	32.49	-33.30	39.89	-56.18	-13.00	43.18	206	328	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	4843.5	52.46	-45.23	32.44	-55.59	-13.00	42.59	209	48	Vertical
2	7062.1800	41.19	-43.75	36.24	-61.58	-13.00	48.58	189	360	Vertical
3	9409.25	39.48	-39.61	38.49	-56.90	-13.00	43.90	246	360	Vertical
4	10593.2700	35.78	-38.68	39.05	-59.11	-13.00	46.11	218	259	Vertical
5	14124.3600	33.13	-35.49	40.20	-57.43	-13.00	44.43	277	96	Vertical
6	17655.4500	32.51	-33.30	39.89	-56.16	-13.00	43.16	165	146	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
Band42	20MHz	QPSK	42590	100RB#0	VL	NT	-6.80	-0.001943	PASS
Band42	20MHz	QPSK	42590	100RB#0	VN	NT	5.80	0.001657	PASS
Band42	20MHz	QPSK	42590	100RB#0	VH	NT	-11.70	-0.003343	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band42	20MHz	QPSK	42590	100RB#0	NV	-30	4.40	0.001257	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	-20	2.10	0.000600	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	0	6.40	0.001829	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	10	3.50	0.001000	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	20	-9.40	-0.002686	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	30	2.00	0.000571	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	40	1.90	0.000543	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	50	0.60	0.000171	PASS

---End of Attachment---



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Wireless Laboratory

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