

Report No.: SEWM2212000312RG01

Rev.: 01

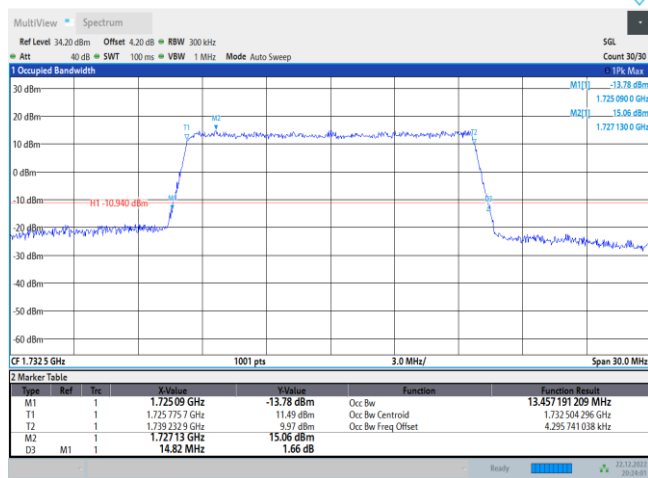
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Band4-15MHz-64QAM-20025-75RB#0



20:23:12 22.12.2022

Band4-15MHz-64QAM-20175-75RB#0



20:24:01 22.12.2022



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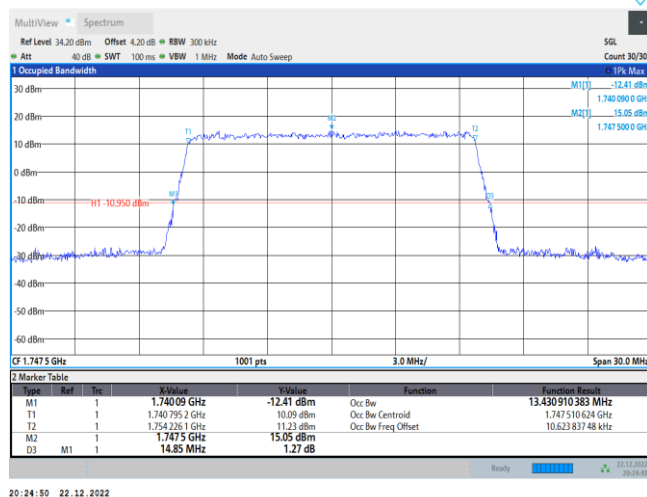
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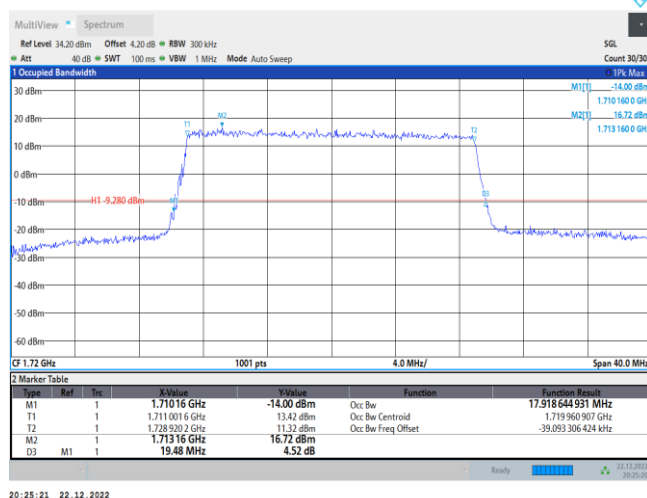
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Band4-15MHz-64QAM-20325-75RB#0



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Band4-20MHz-QPSK-20050-100RB#0



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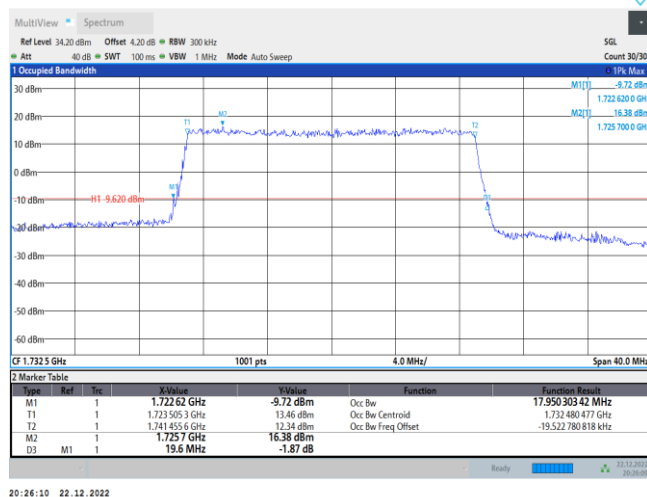
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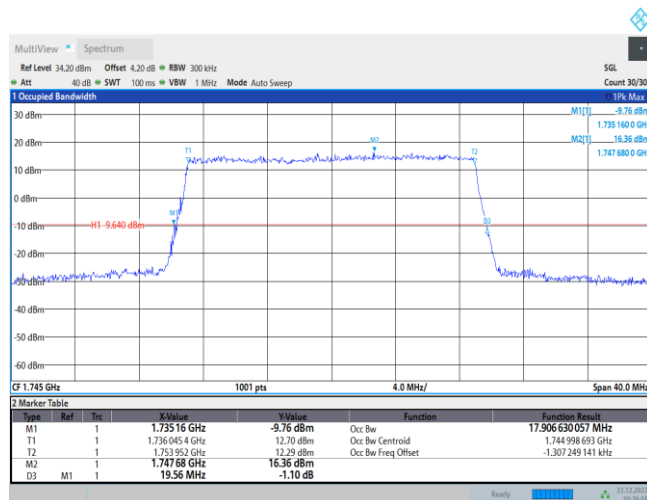
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Band4-20MHz-QPSK-20175-100RB#0



20:26:10 22.12.2022

Band4-20MHz-QPSK-20300-100RB#0



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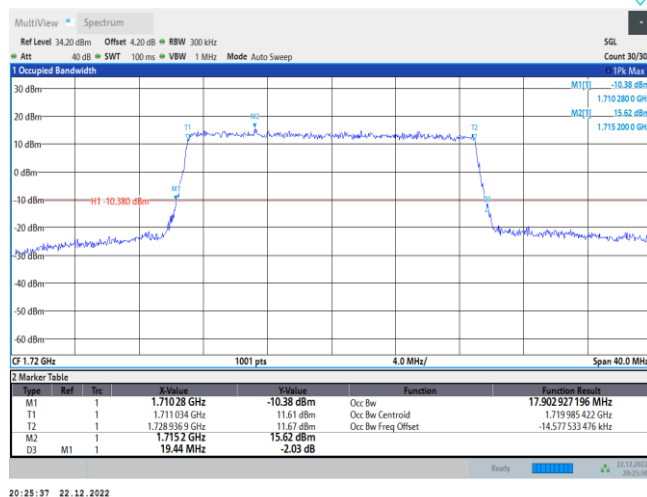
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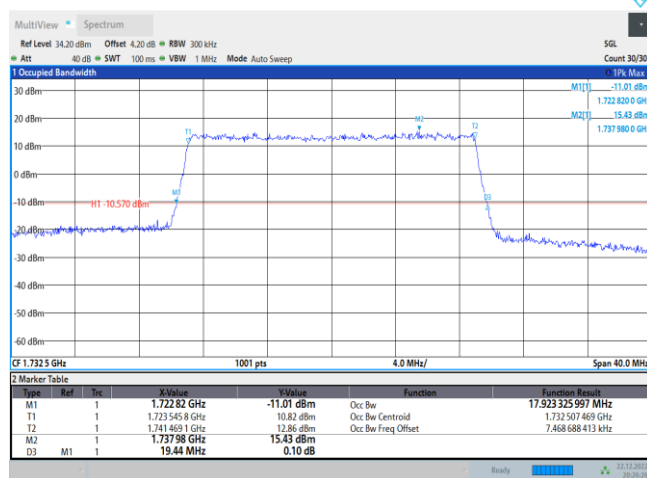
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Band4-20MHz-16QAM-20050-100RB#0



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Band4-20MHz-16QAM-20175-100RB#0



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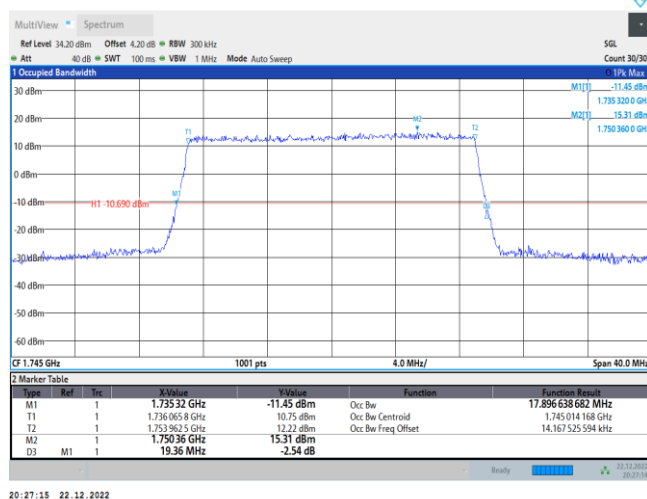
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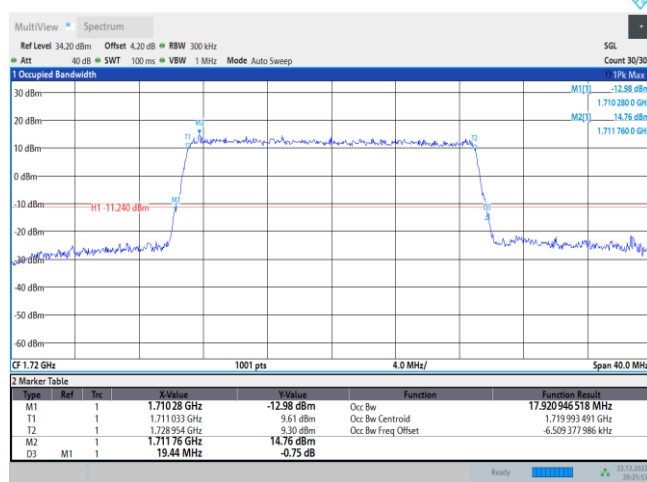
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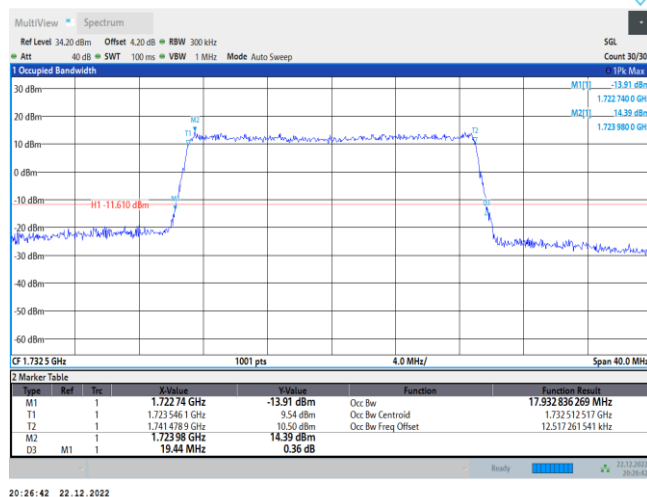
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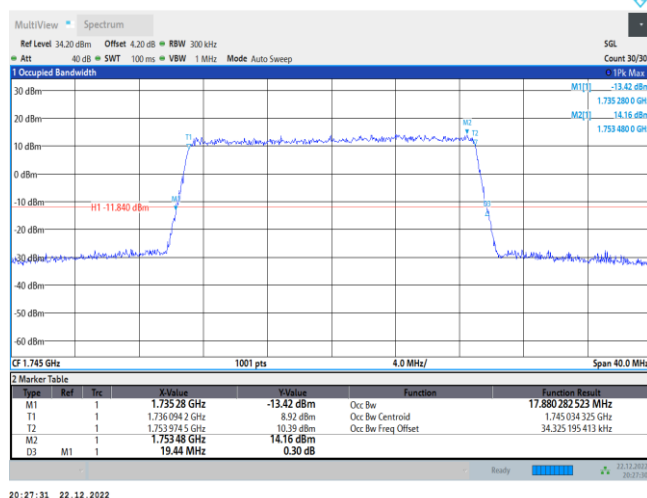
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Band4-20MHz-64QAM-20300-100RB#0



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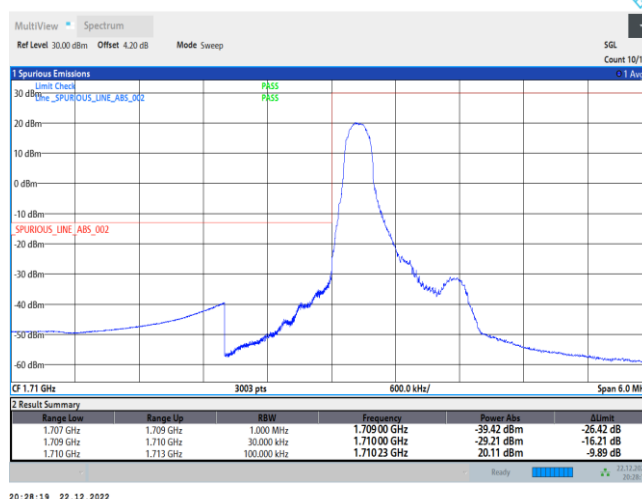
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Band Edge

Test Graphs

Band4-1.4MHz-QPSK-19957-1RB#0



Band4-1.4MHz-QPSK-19957-6RB#0



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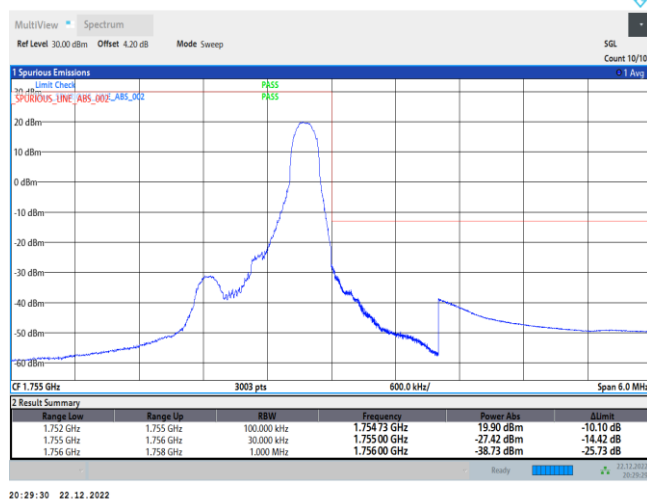
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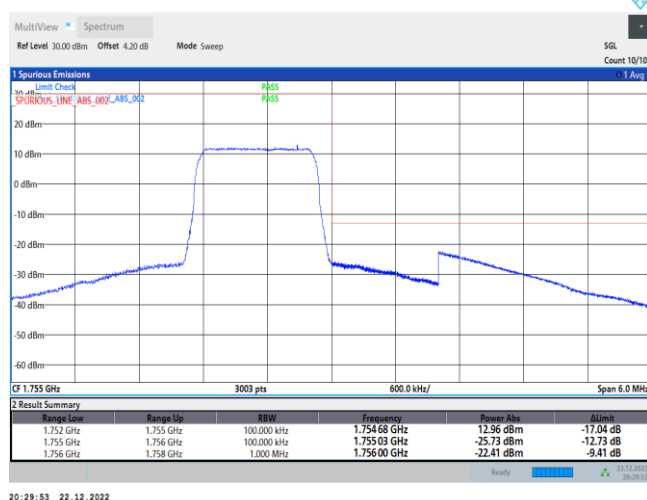
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Band4-1.4MHz-QPSK-20393-1RB#5



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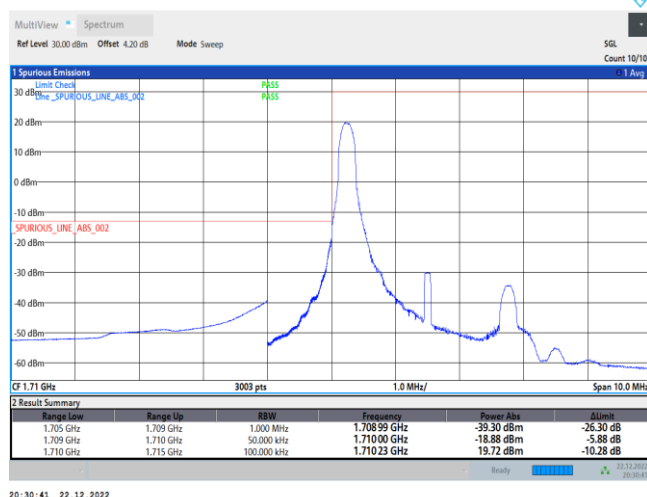
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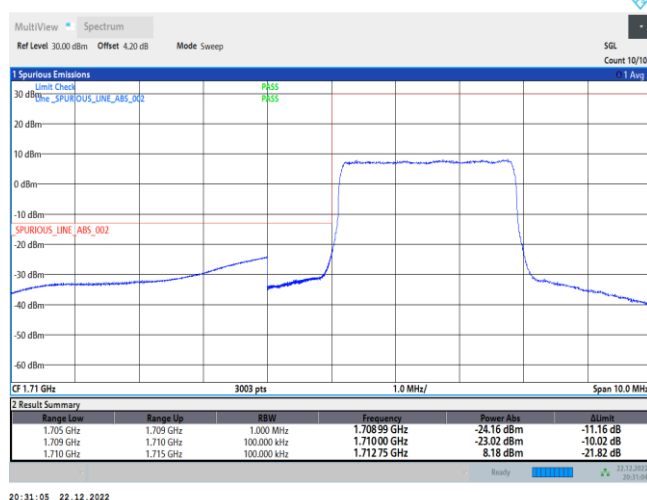
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Band4-3MHz-QPSK-19965-1RB#0



Band4-3MHz-QPSK-19965-15RB#0



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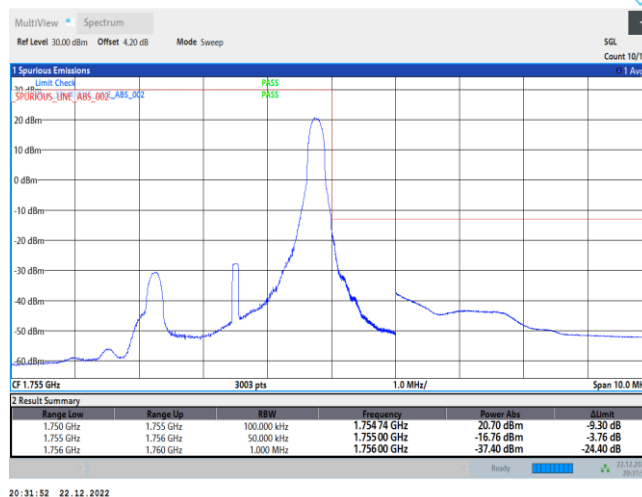
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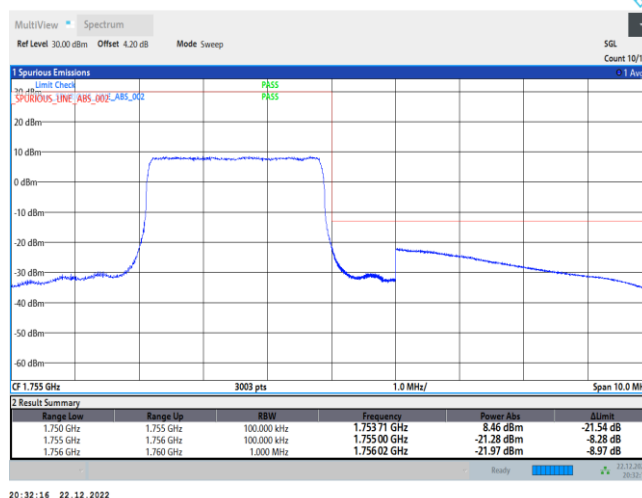
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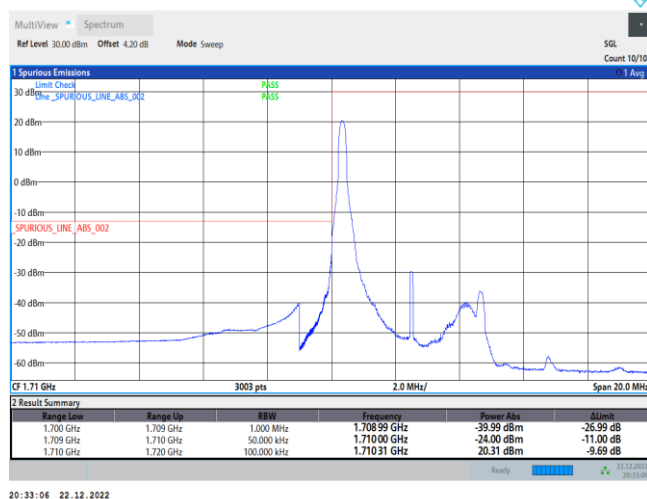
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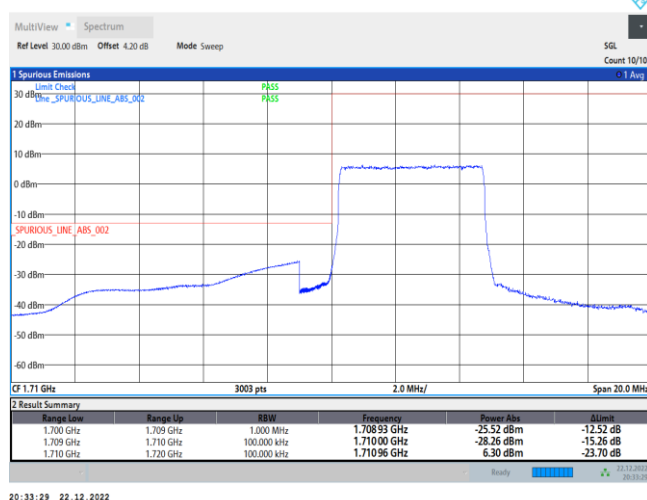
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Band4-5MHz-QPSK-19975-25RB#0



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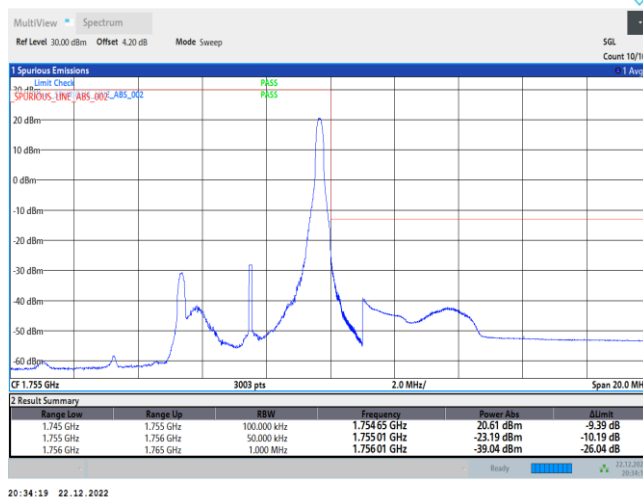
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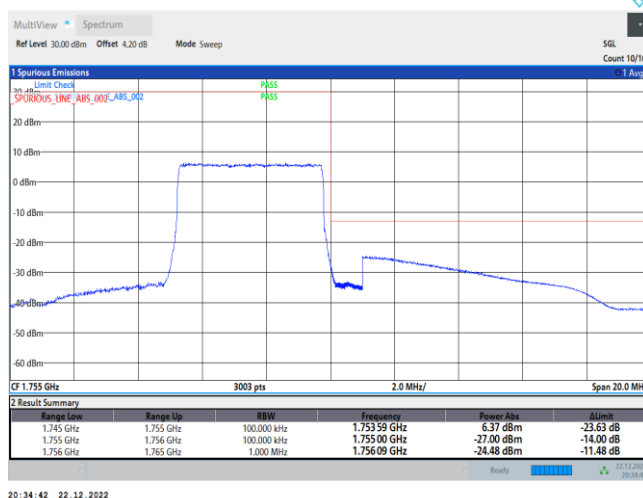
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Band4-5MHz-QPSK-20375-25RB#0



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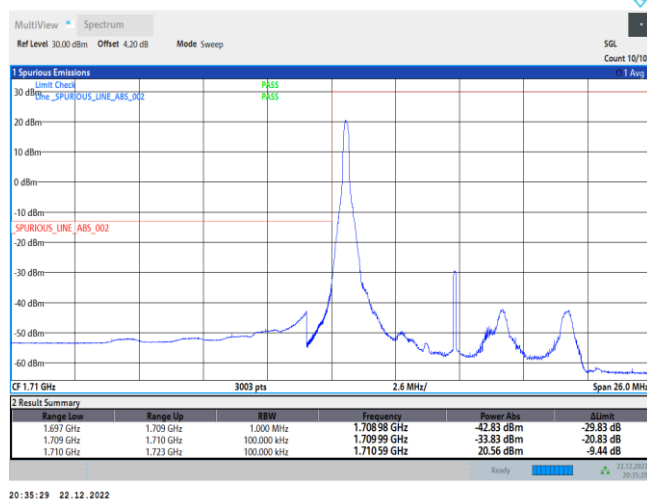
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Band4-10MHz-QPSK-20000-1RB#0



Band4-10MHz-QPSK-20000-50RB#0



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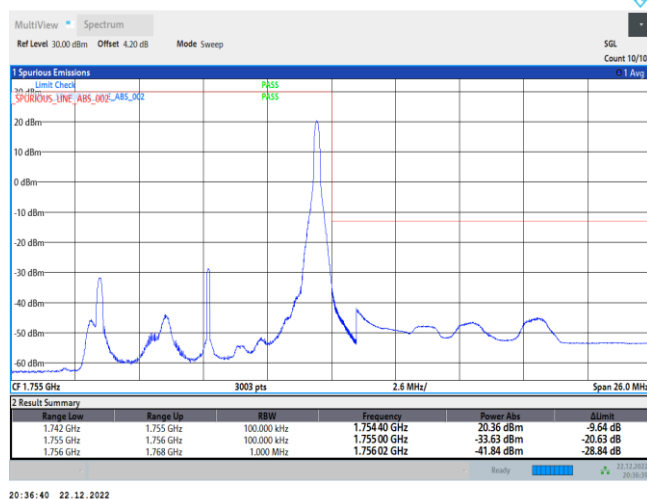
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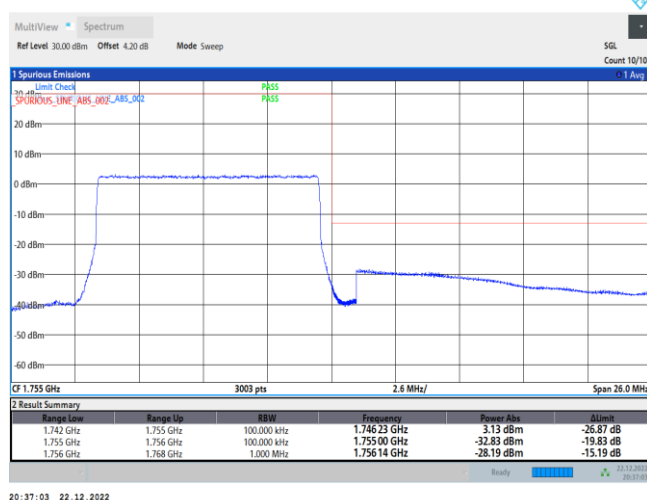
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Band4-10MHz-QPSK-20350-1RB#49



Band4-10MHz-QPSK-20350-50RB#0



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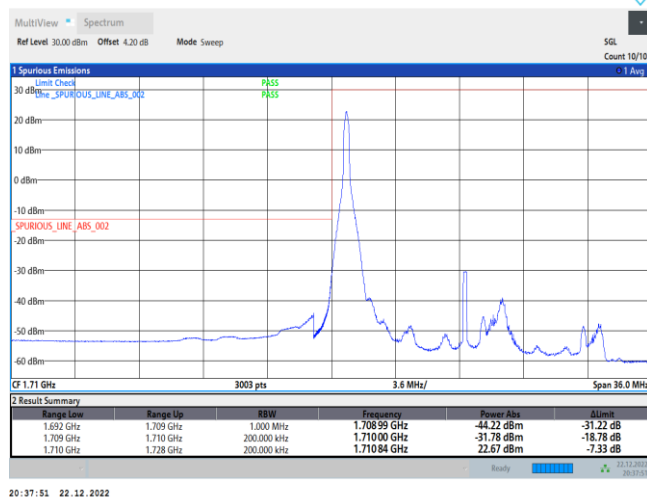
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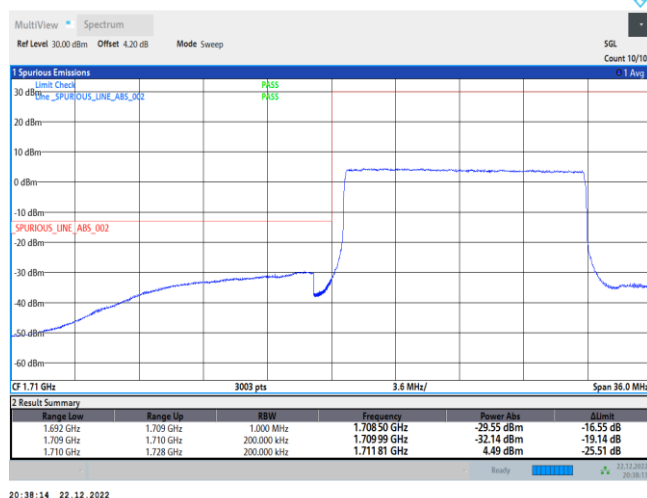
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Band4-15MHz-QPSK-20025-1RB#0



Band4-15MHz-QPSK-20025-75RB#0



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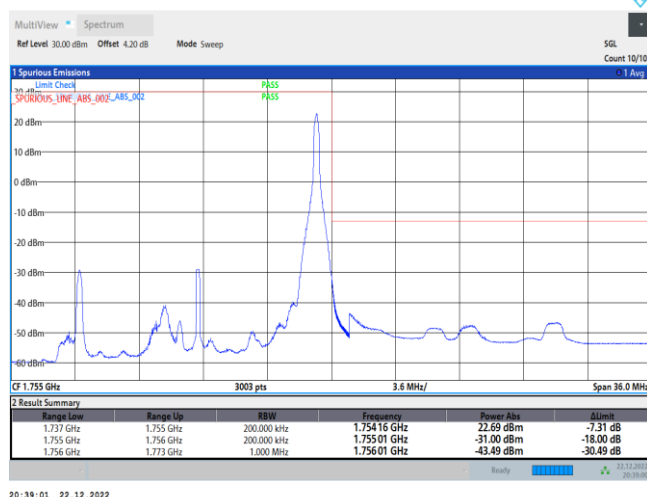
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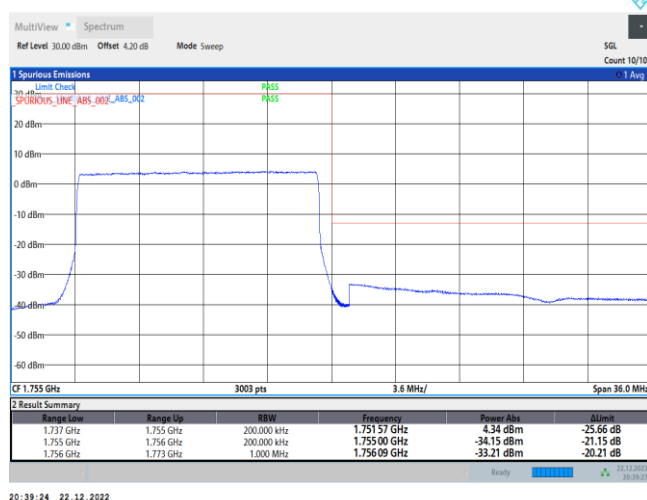
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Band4-15MHz-QPSK-20325-1RB#74



Band4-15MHz-QPSK-20325-75RB#0



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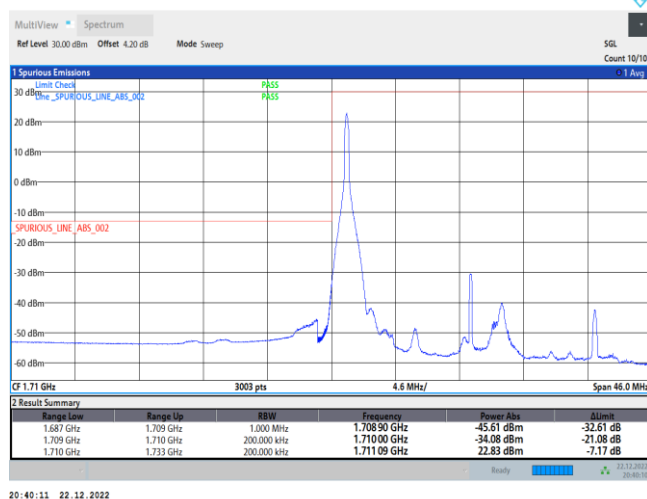
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Band4-20MHz-QPSK-20050-1RB#0



Band4-20MHz-QPSK-20050-100RB#0



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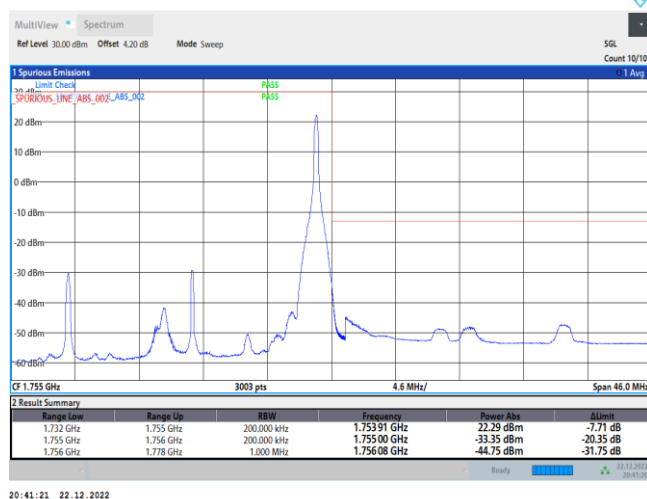
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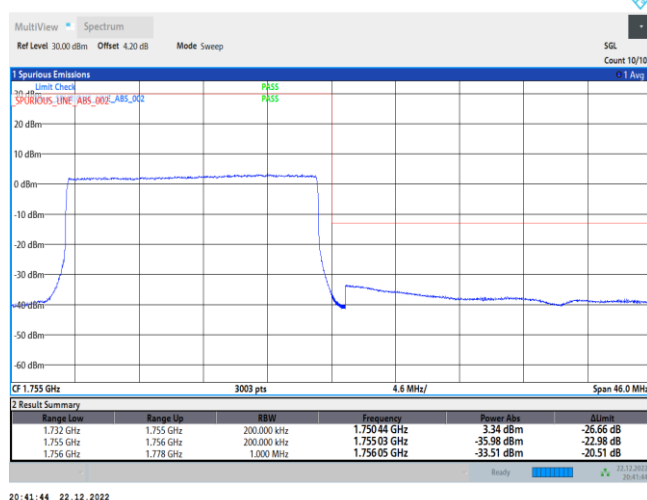
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Band4-20MHz-QPSK-20300-1RB#99



Band4-20MHz-QPSK-20300-100RB#0



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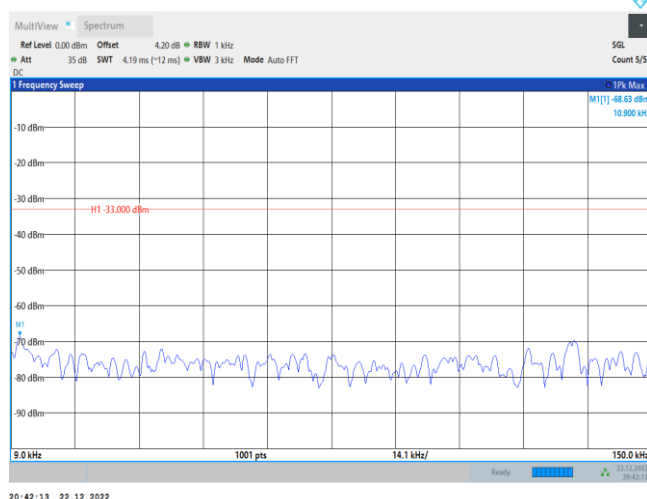
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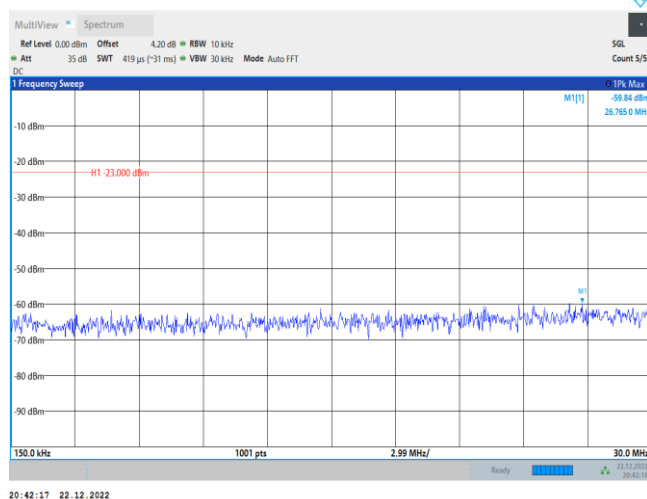
Conducted Spurious Emission

Test Graphs

Band4-20MHz-QPSK-20050-1RB#0-Range1:0.009~0.15MHz



Band4-20MHz-QPSK-20050-1RB#0-Range2:0.15~30MHz

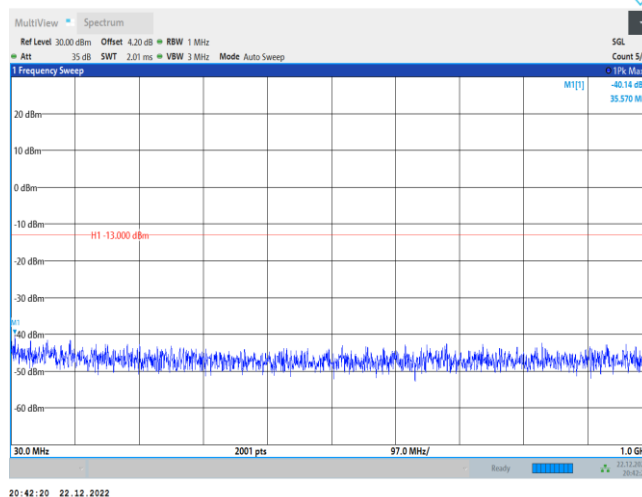


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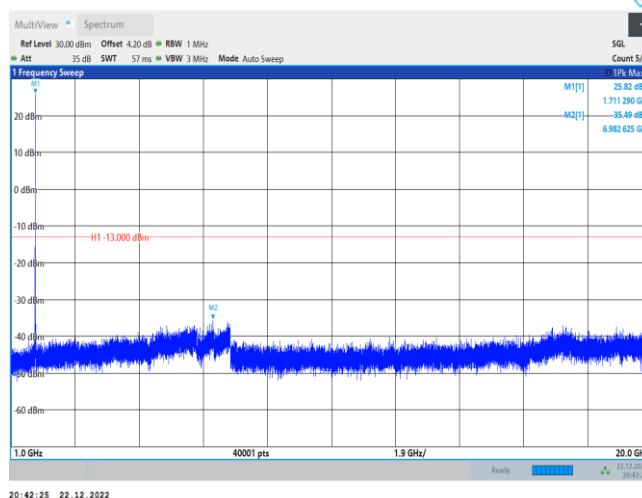
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



Band4-20MHz-QPSK-20050-1RB#0-Range4:1000~20000MHz



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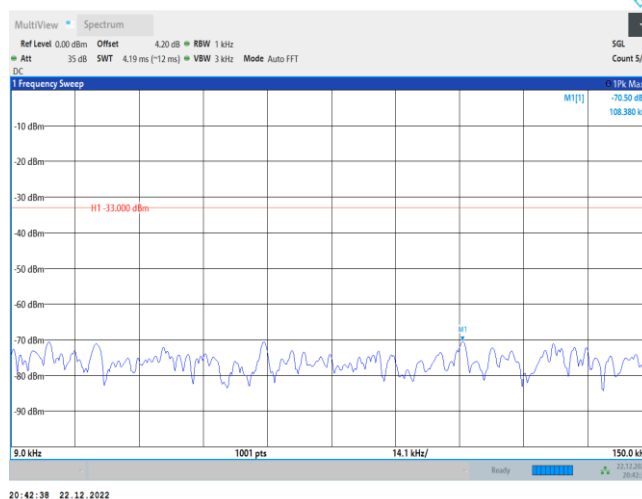
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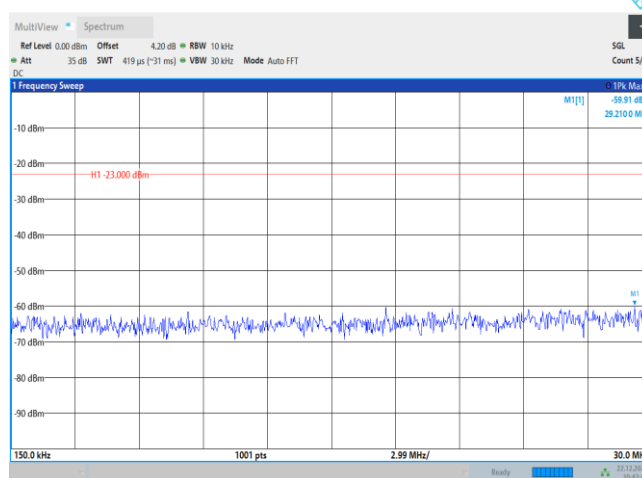
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



20:42:38 22.12.2022

Band4-20MHz-QPSK-20175-1RB#0-Range2:0.15~30MHz



20:42:42 22.12.2022



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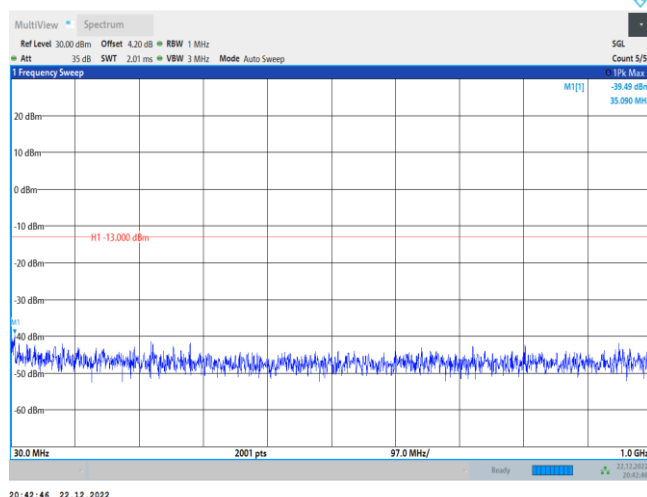
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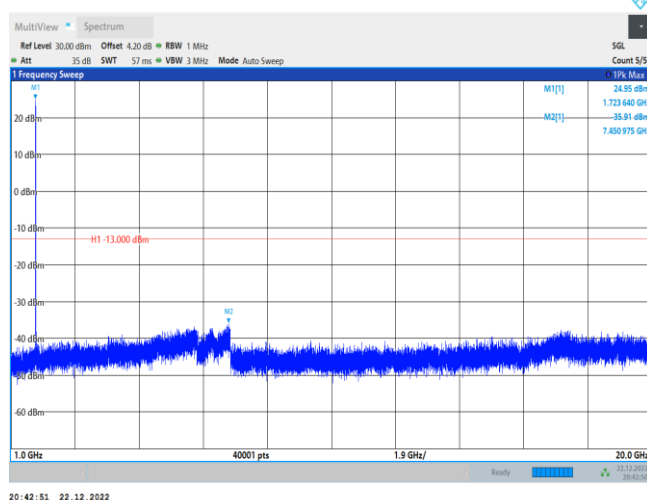
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



Band4-20MHz-QPSK-20175-1RB#0-Range4:1000~20000MHz



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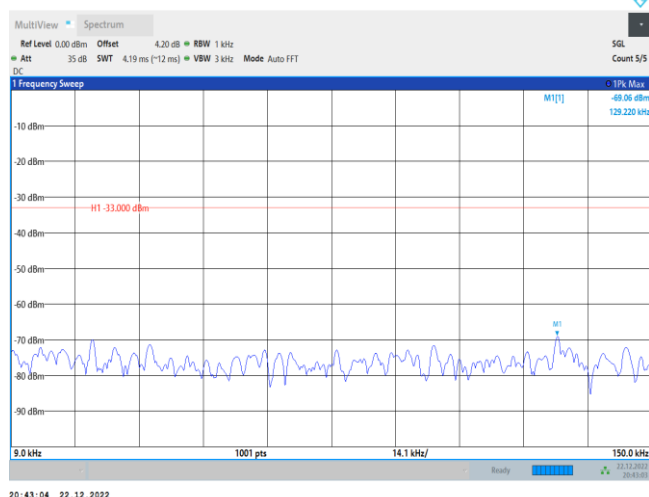
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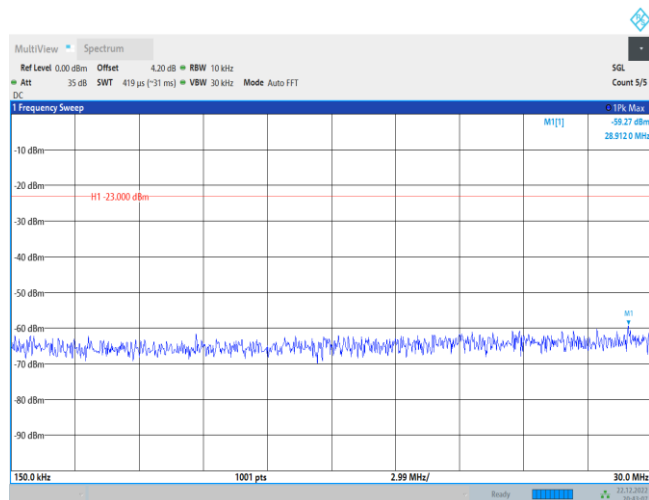
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



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Band4-20MHz-QPSK-20300-1RB#0-Range2:0.15~30MHz



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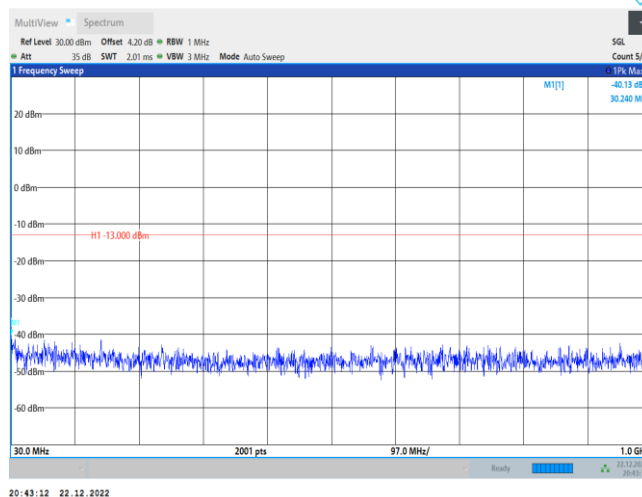
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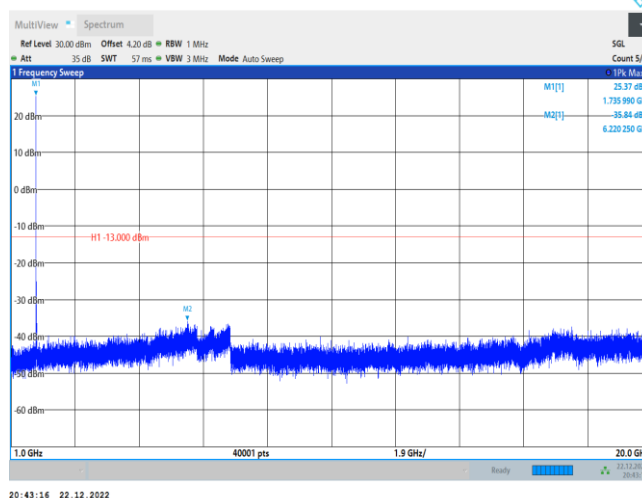
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



Band4-20MHz-QPSK-20300-1RB#0-Range4:1000~20000MHz



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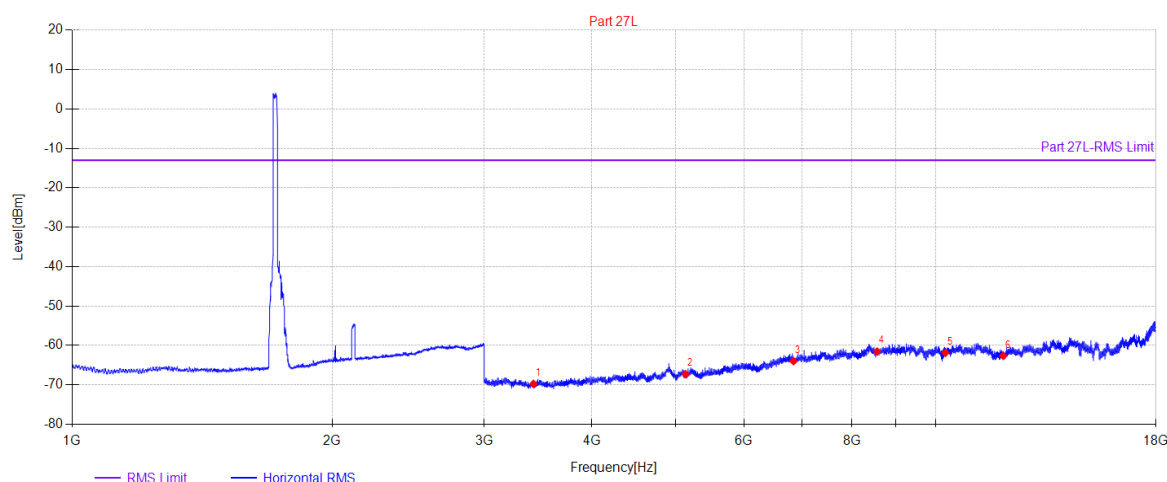
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Field Strength of Spurious Radiation

Test Band = LTE Band4_QPSK_3MHz_TM1

Test Channel = Low



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	42.33	-46.28	29.45	-69.76	-13.00	56.76	210	38	Horizontal
2	5133.2700	40.36	-45.34	32.95	-67.29	-13.00	54.29	236	301	Horizontal
3	6844.3600	39.52	-44.14	35.89	-63.99	-13.00	50.99	256	270	Horizontal
4	8555.4500	37.51	-41.46	37.66	-61.55	-13.00	48.55	251	38	Horizontal
5	10266.5400	33.78	-39.23	38.83	-61.88	-13.00	48.88	148	255	Horizontal
6	11977.6300	31.19	-37.51	38.95	-62.64	-13.00	49.64	199	0	Horizontal



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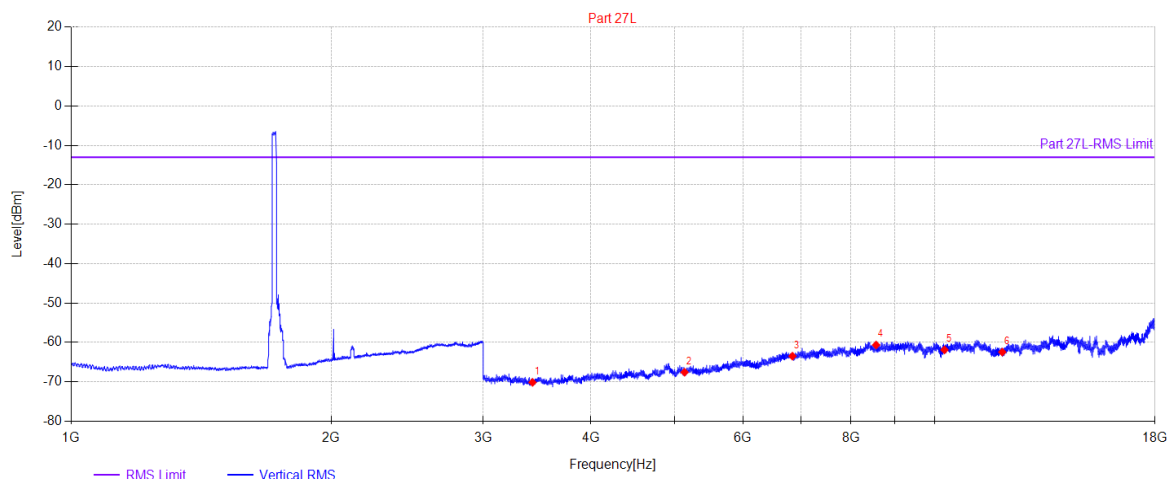
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	41.96	-46.28	29.45	-70.13	-13.00	57.13	251	222	Vertical
2	5133.2700	40.09	-45.34	32.95	-67.56	-13.00	54.56	140	356	Vertical
3	6844.3600	40.03	-44.14	35.89	-63.48	-13.00	50.48	170	11	Vertical
4	8555.4500	38.41	-41.46	37.66	-60.65	-13.00	47.65	251	11	Vertical
5	10266.5400	33.78	-39.23	38.83	-61.88	-13.00	48.88	239	268	Vertical
6	11977.6300	31.39	-37.51	38.95	-62.44	-13.00	49.44	223	129	Vertical



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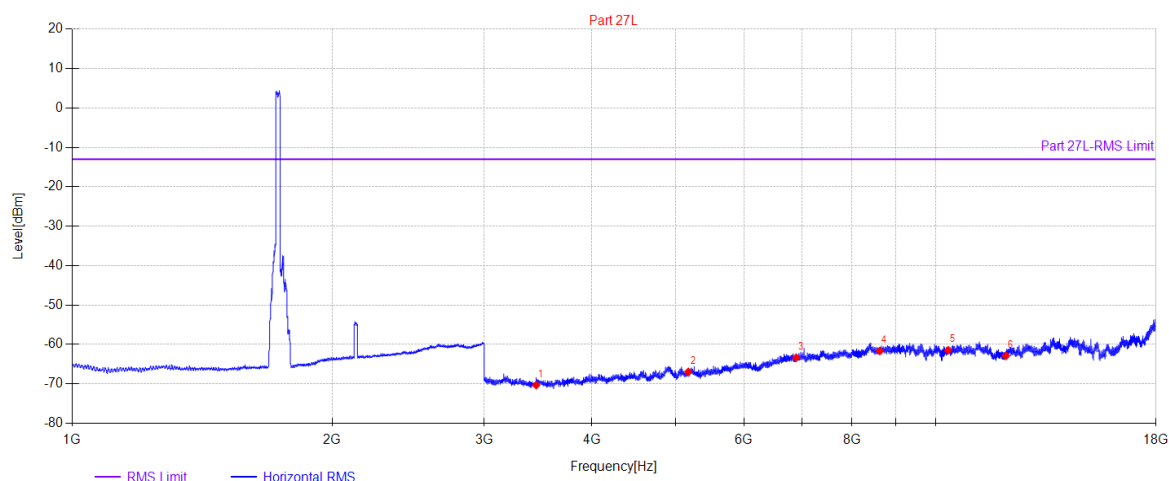
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Test Band = LTE Band4_QPSK_3MHz_TM1

Test Channel = Mid



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	41.74	-46.27	29.47	-70.32	-13.00	57.32	231	184	Horizontal
2	5170.7700	40.64	-45.31	32.97	-66.95	-13.00	53.95	152	360	Horizontal
3	6894.3600	40.05	-44.10	35.95	-63.36	-13.00	50.36	148	277	Horizontal
4	8617.9500	37.22	-41.40	37.78	-61.66	-13.00	48.66	196	124	Horizontal
5	10341.5400	33.99	-39.06	38.85	-61.48	-13.00	48.48	185	263	Horizontal
6	12065.1300	30.79	-37.44	39.02	-62.89	-13.00	49.89	174	139	Horizontal



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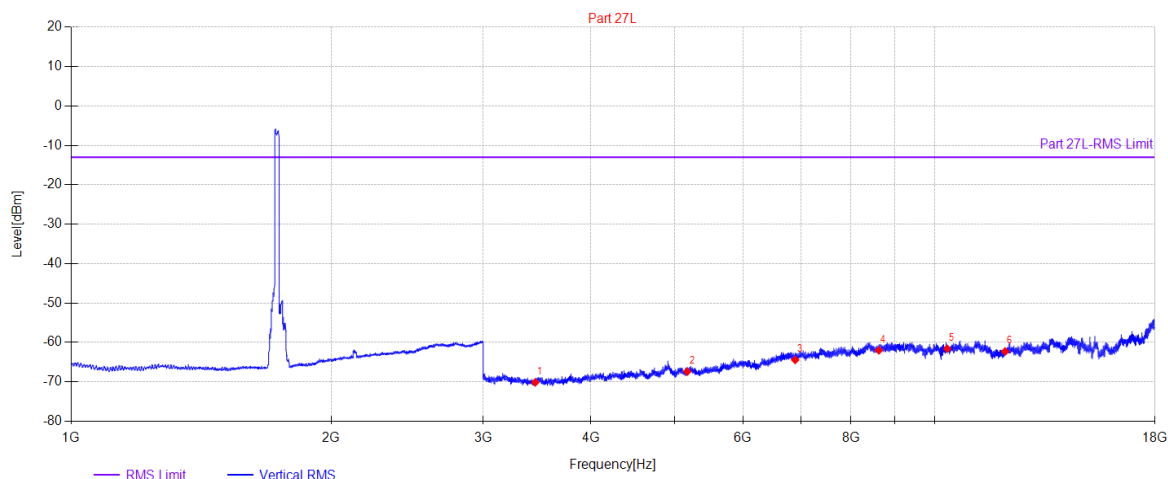
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	41.93	-46.27	29.47	-70.13	-13.00	57.13	221	75	Vertical
2	5170.7700	40.20	-45.31	32.97	-67.39	-13.00	54.39	145	306	Vertical
3	6894.3600	38.98	-44.10	35.95	-64.43	-13.00	51.43	123	292	Vertical
4	8617.9500	36.89	-41.40	37.78	-61.99	-13.00	48.99	258	230	Vertical
5	10341.5400	33.87	-39.06	38.85	-61.60	-13.00	48.60	199	136	Vertical
6	12065.1300	31.40	-37.44	39.02	-62.28	-13.00	49.28	214	349	Vertical



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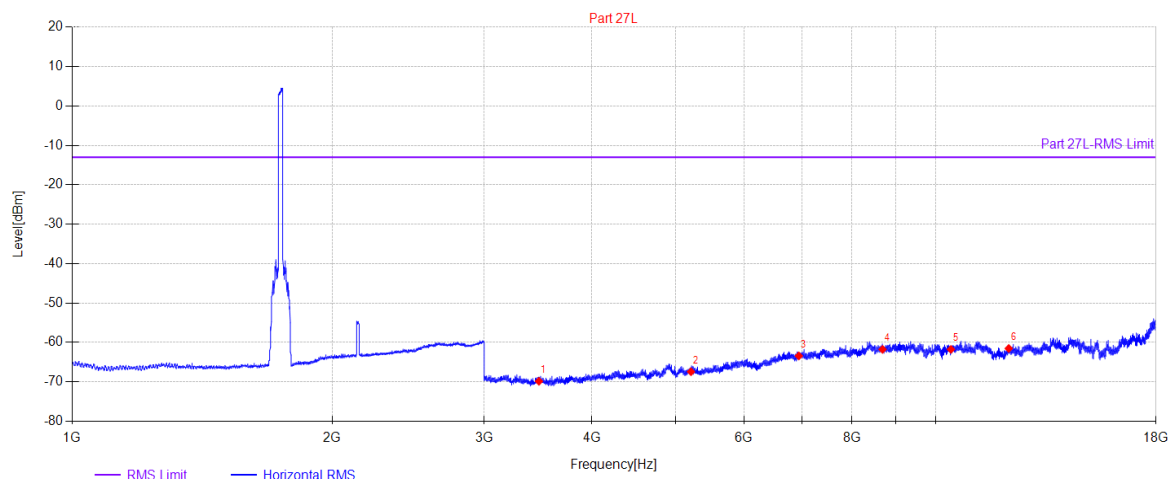
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Test Band = LTE Band4_QPSK_3MHz_TM1

Test Channel = High



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	42.18	-46.27	29.50	-69.85	-13.00	56.85	223	138	Horizontal
2	5208.2700	40.11	-45.26	32.98	-67.43	-13.00	54.43	254	290	Horizontal
3	6944.3600	39.69	-43.85	36.01	-63.41	-13.00	50.41	165	60	Horizontal
4	8680.4500	37.24	-41.62	37.88	-61.76	-13.00	48.76	174	4	Horizontal
5	10416.5400	33.60	-38.97	38.88	-61.76	-13.00	48.76	152	60	Horizontal
6	12152.6300	32.06	-37.42	39.09	-61.53	-13.00	48.53	160	76	Horizontal



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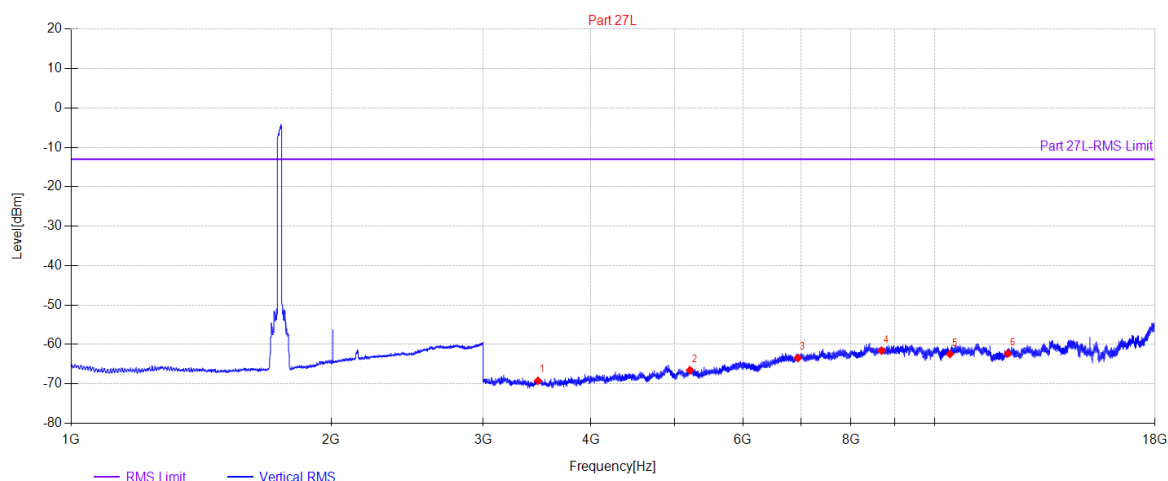
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	42.79	-46.27	29.50	-69.24	-13.00	56.24	124	183	Vertical
2	5208.2700	41.02	-45.26	32.98	-66.52	-13.00	53.52	165	245	Vertical
3	6944.3600	39.67	-43.85	36.01	-63.43	-13.00	50.43	188	60	Vertical
4	8680.4500	37.43	-41.62	37.88	-61.57	-13.00	48.57	168	4	Vertical
5	10416.5400	32.93	-38.97	38.88	-62.43	-13.00	49.43	142	359	Vertical
6	12152.6300	31.27	-37.42	39.09	-62.32	-13.00	49.32	127	276	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
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-2.10	-0.001212	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	0.20	0.000115	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-1.30	-0.000750	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-0.90	-0.000519	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	0.80	0.000462	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	1.10	0.000635	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-2.40	-0.001385	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-1.00	-0.000577	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-1.30	-0.000750	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-1.30	-0.000750	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-1.90	-0.001097	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-2.20	-0.001270	PASS

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