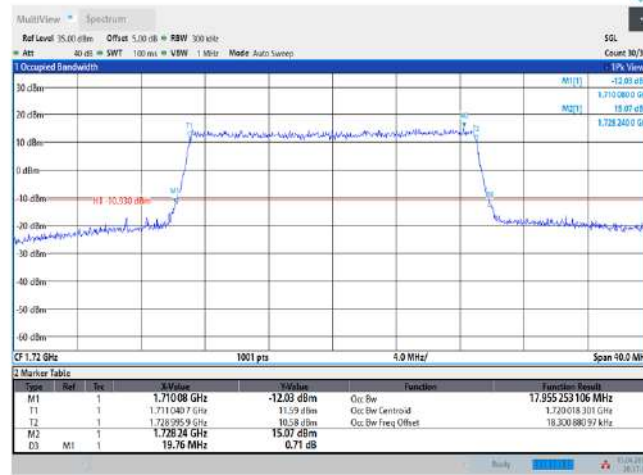


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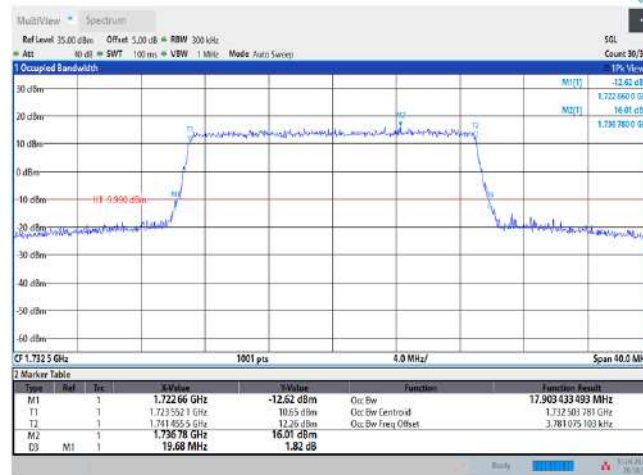
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20:37:39 15.04.2022

Band4-20MHz-64QAM-20175-100RB#0



20:38:54 15.04.2022



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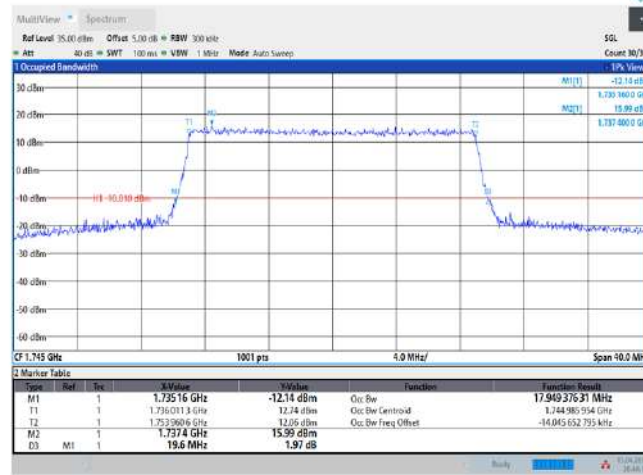
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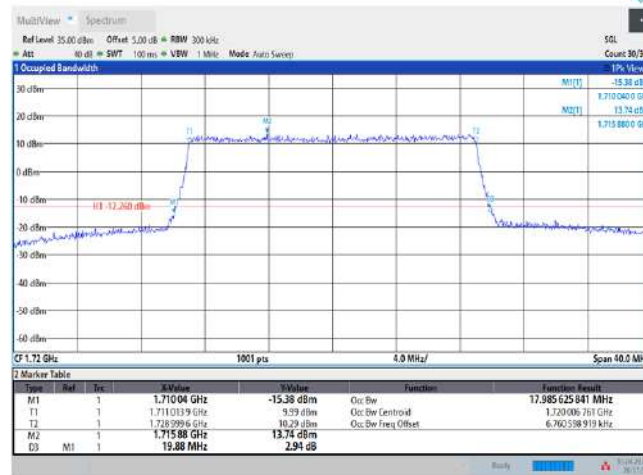
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Band4-20MHz-256QAM-20050-100RB#0



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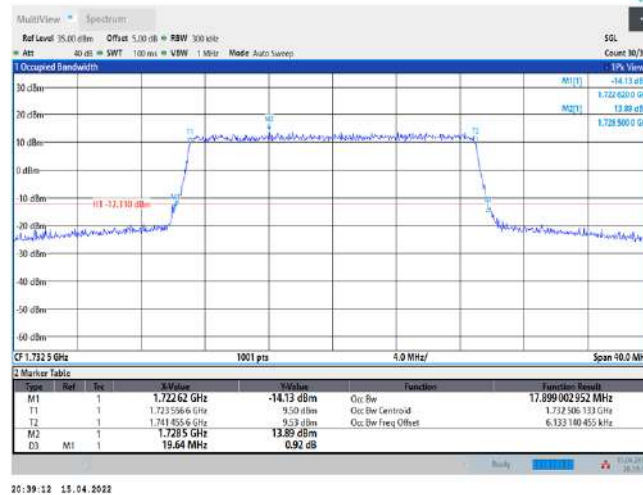
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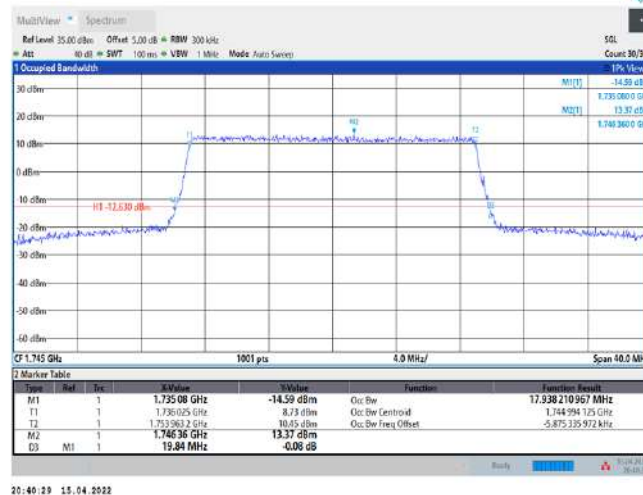
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Band4-20MHz-256QAM-20300-100RB#0



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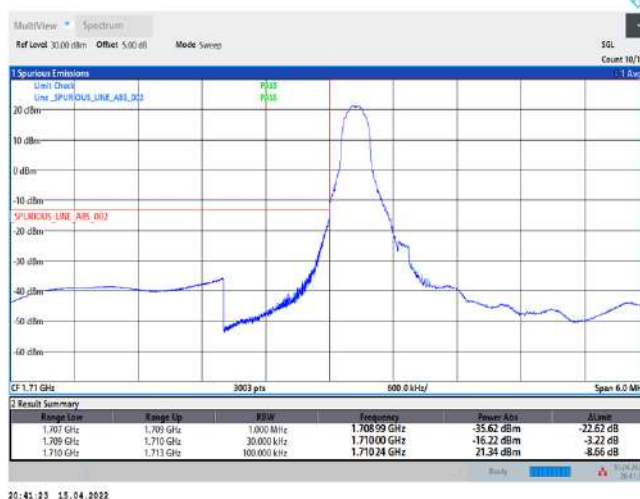
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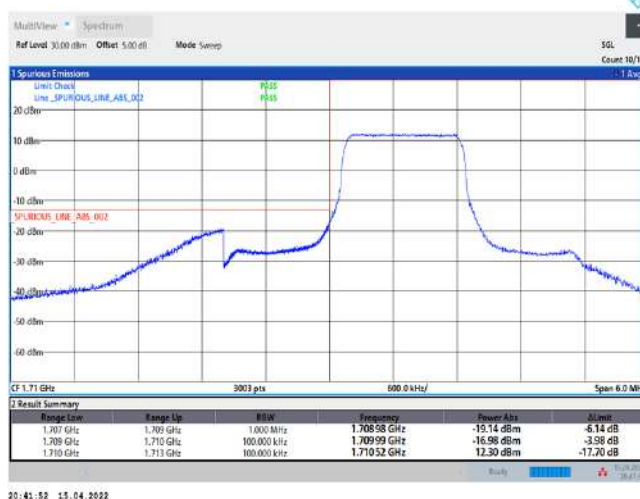
Band Edge

Test Graphs

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



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



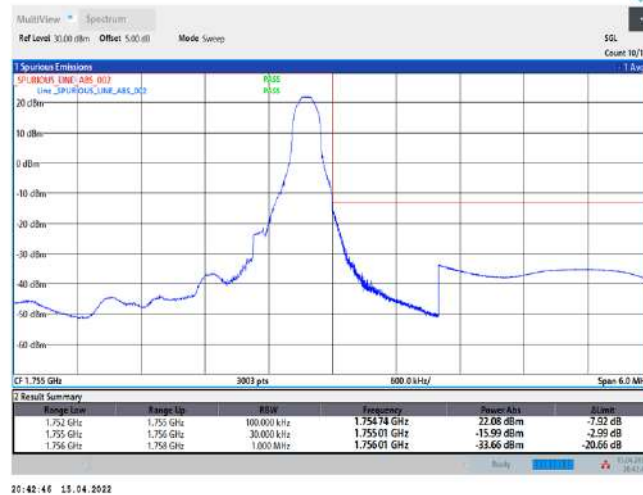
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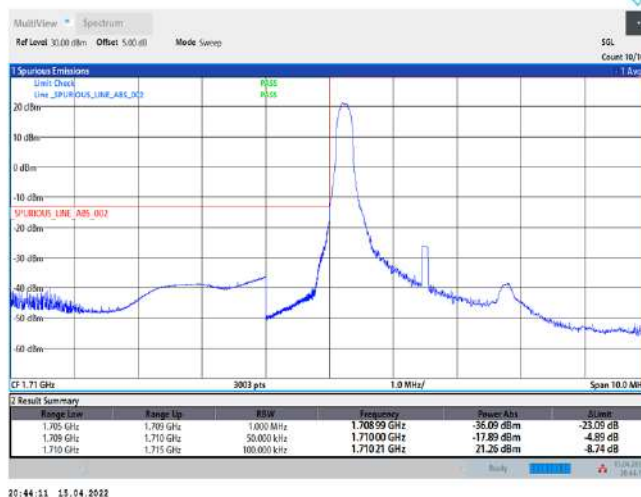
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Band4-3MHz-QPSK-19965-15RB#0



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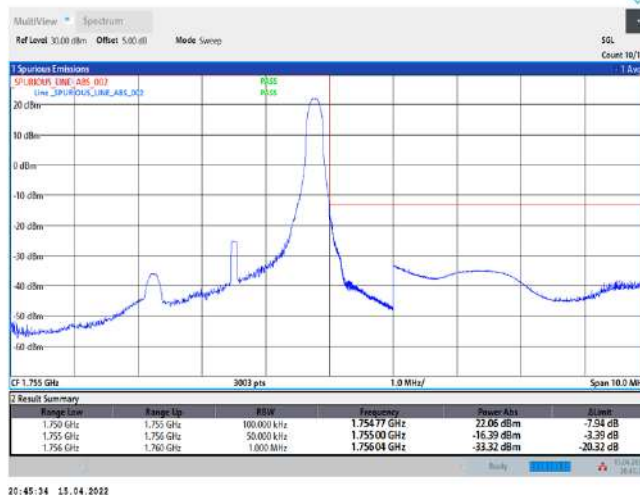
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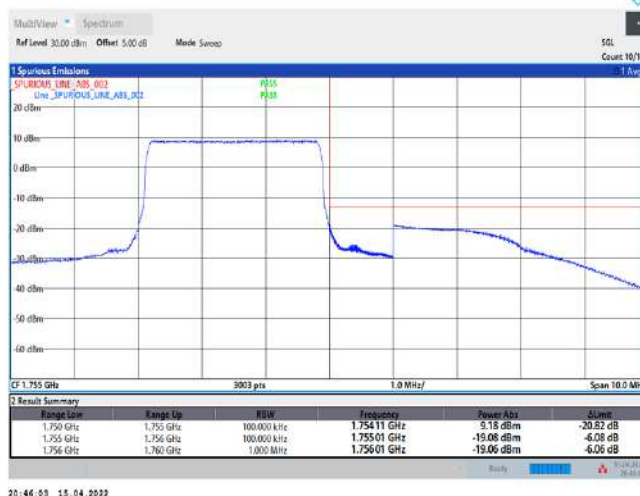
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Band4-3MHz-QPSK-20385-15RB#0



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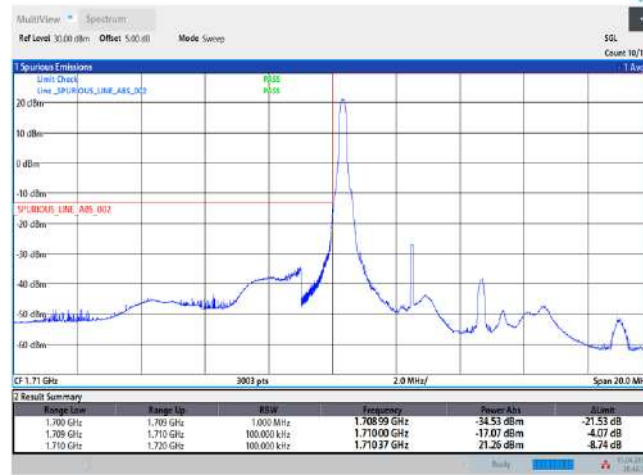
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Band4-5MHz-QPSK-19975-25RB#0



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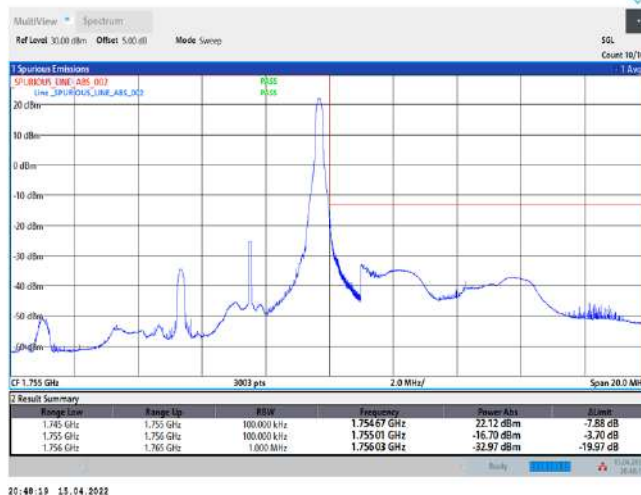
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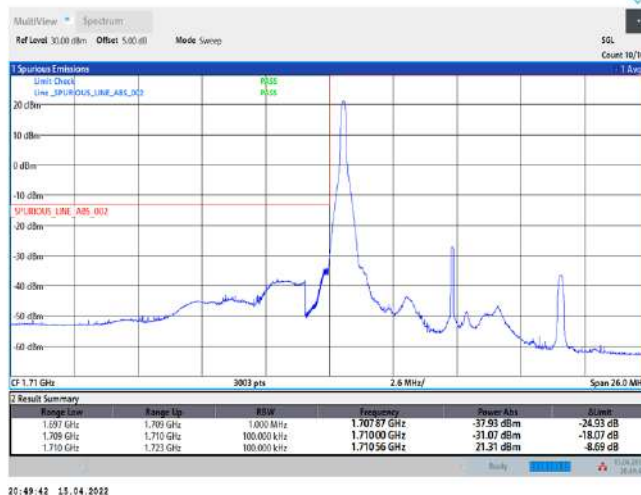
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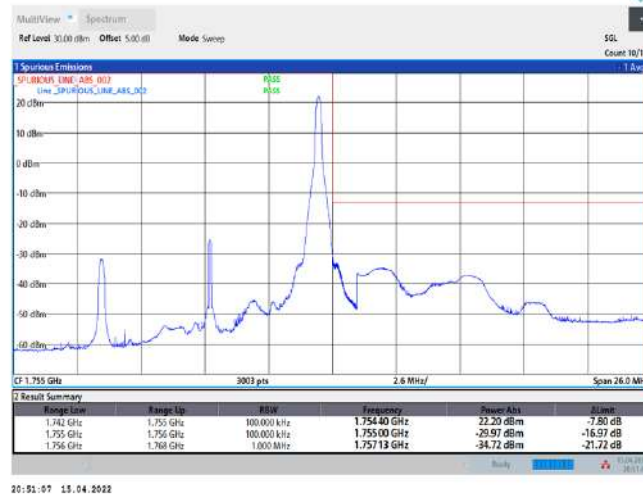
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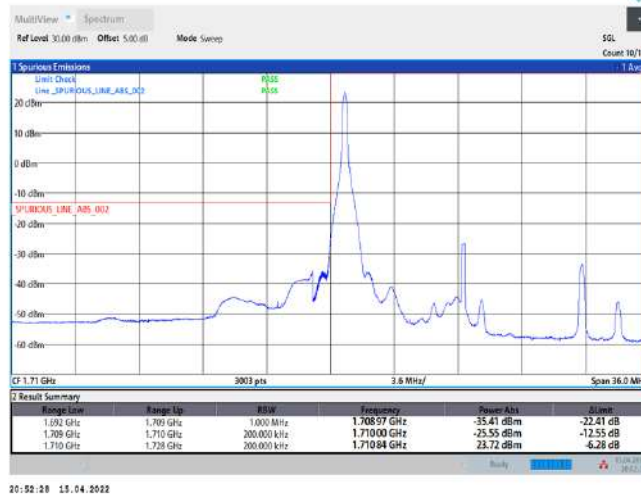
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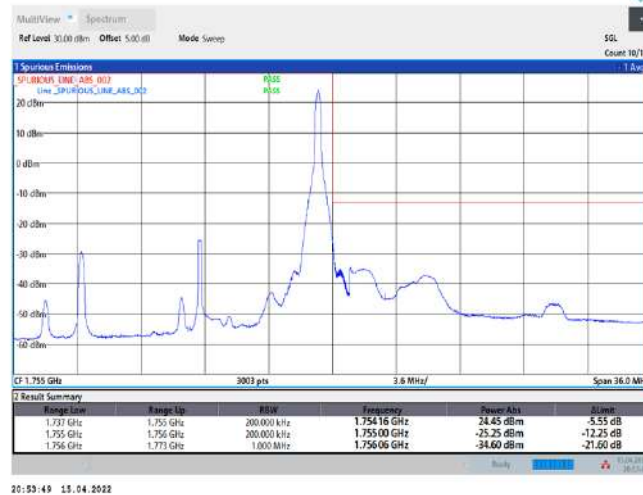
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Band4-15MHz-QPSK-20325-1RB#74



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



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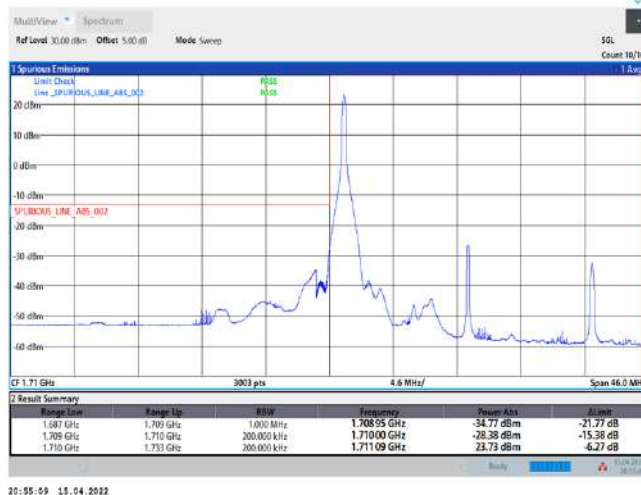
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Band4-20MHz-QPSK-20050-1RB#0



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



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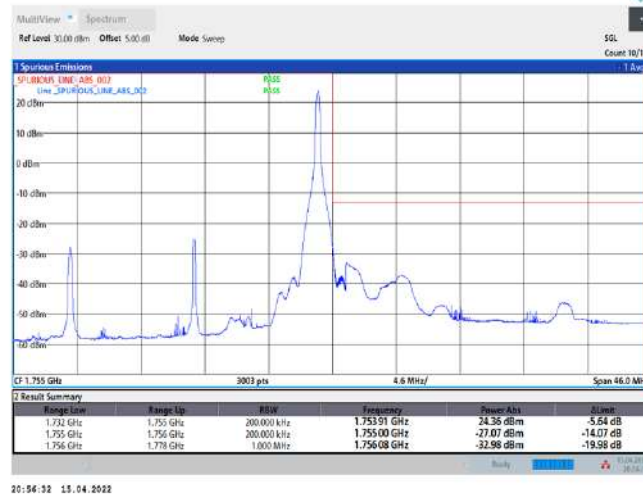
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Band4-20MHz-QPSK-20300-1RB#99



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



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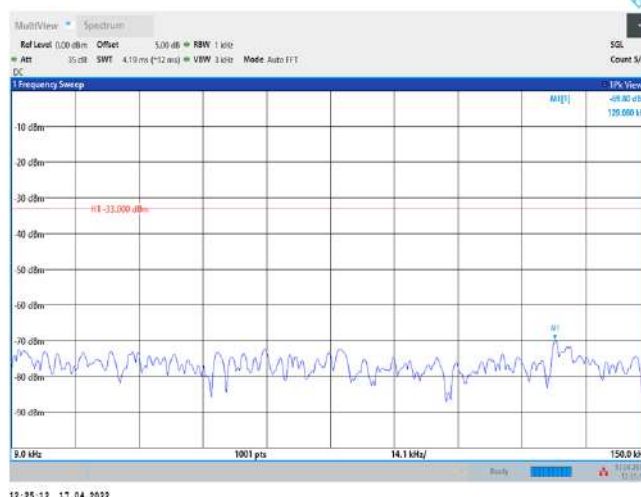
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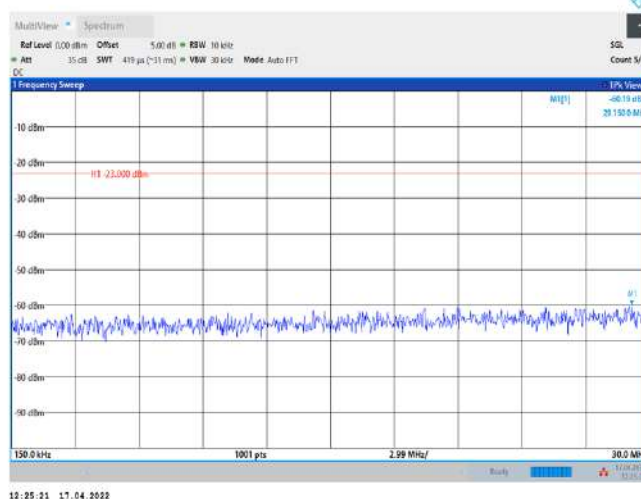
Conducted Spurious Emission

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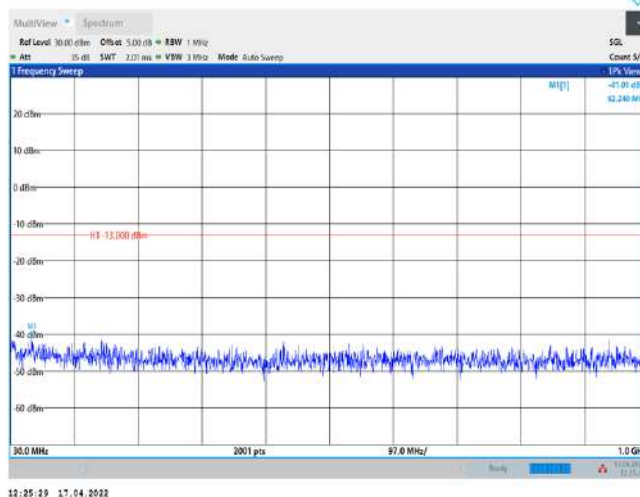
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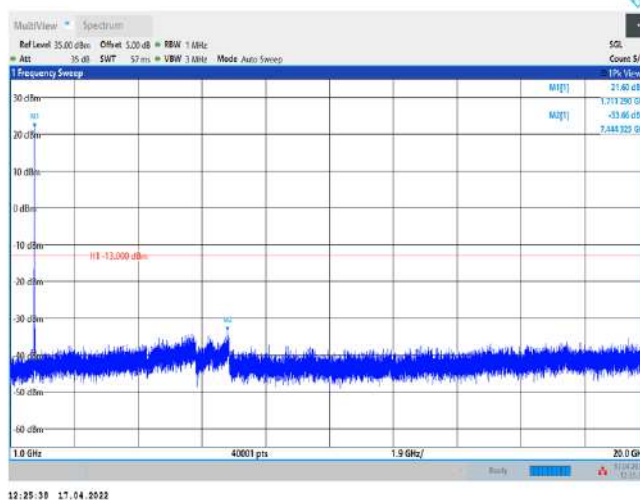
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



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



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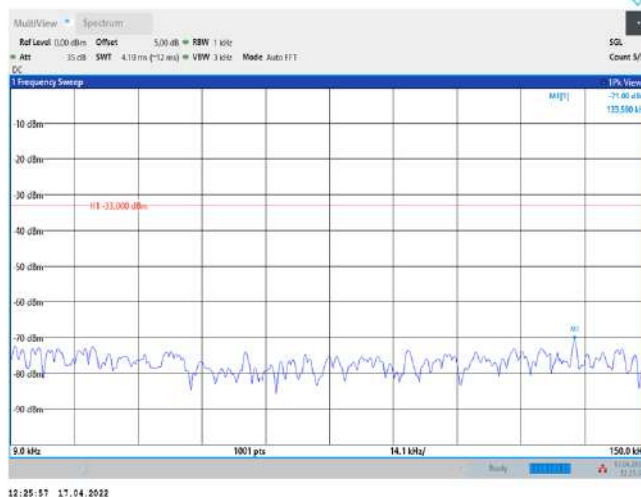
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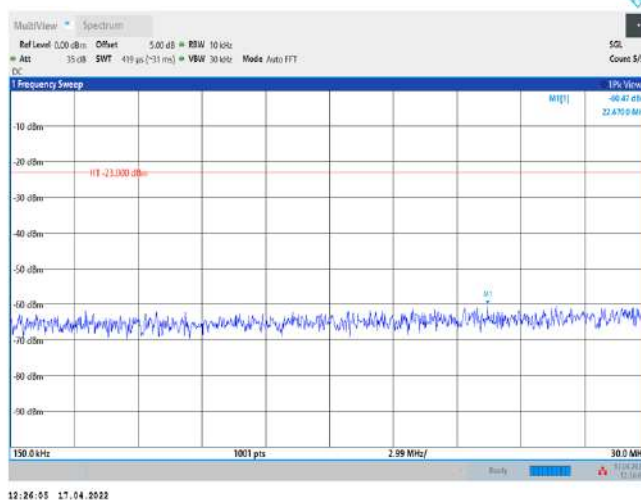
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



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



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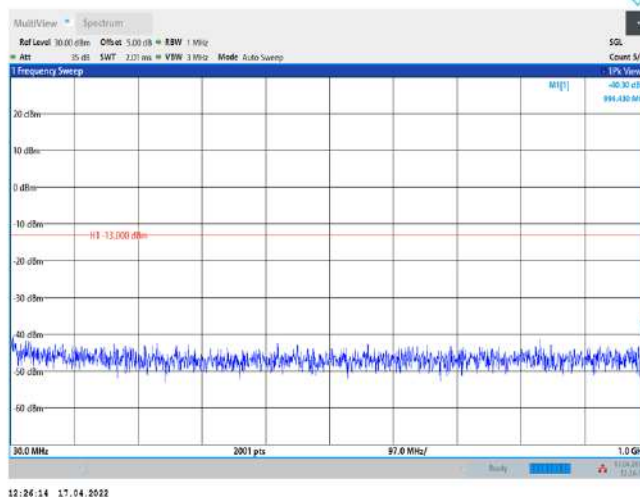
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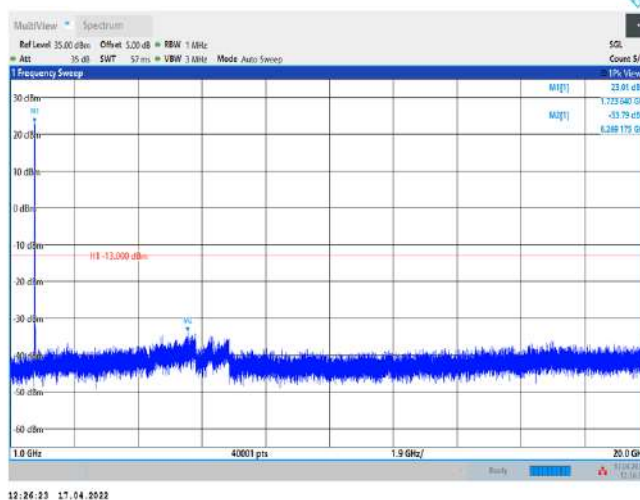
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



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



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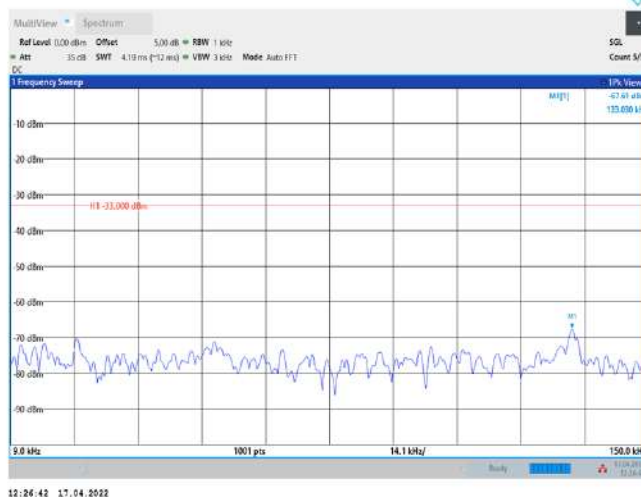
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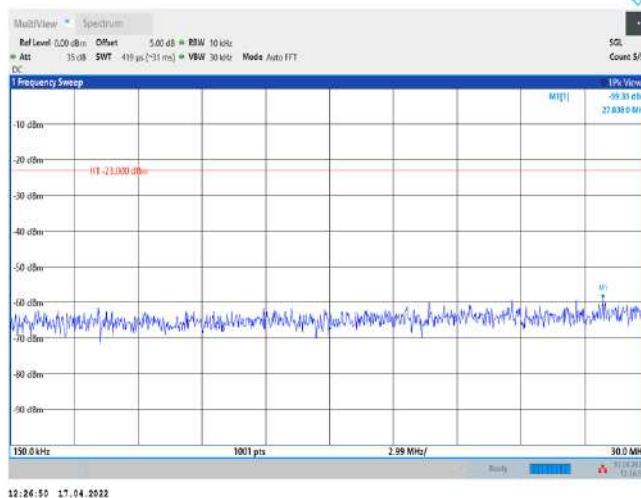
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



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



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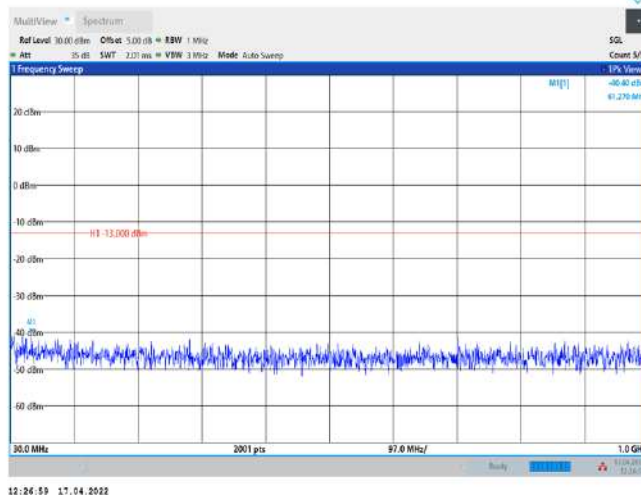
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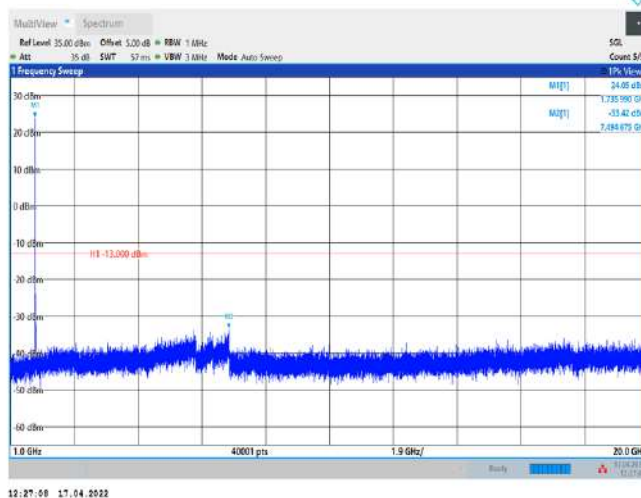
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band 4_ TM1

Test Channel = Low Channel

Final 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	44.86	-46.28	29.45	-67.23	-13.00	54.23	245	341	Horizontal
2	5133.2700	42.84	-45.34	32.95	-64.81	-13.00	51.81	136	267	Horizontal
3	6844.3600	42.47	-44.14	35.89	-61.04	-13.00	48.04	258	147	Horizontal
4	8555.4500	37.47	-41.46	37.66	-61.59	-13.00	48.59	144	117	Horizontal
5	10266.5400	35.03	-39.23	38.83	-60.63	-13.00	47.63	102	192	Horizontal
6	11977.6300	31.47	-37.51	38.95	-62.36	-13.00	49.36	190	58	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	3422.1800	44.18	-46.28	29.45	-67.91	-13.00	54.91	161	360	Vertical
2	5133.2700	45.92	-45.34	32.95	-61.73	-13.00	48.73	123	179	Vertical
3	6844.3600	45.68	-44.14	35.89	-57.83	-13.00	44.83	261	150	Vertical
4	8555.4500	38.35	-41.46	37.66	-60.71	-13.00	47.71	158	208	Vertical
5	10266.5400	34.24	-39.23	38.83	-61.42	-13.00	48.42	191	359	Vertical
6	11977.6300	31.56	-37.51	38.95	-62.27	-13.00	49.27	175	150	Vertical



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Test Band = LTE Band 4_ TM1

Test Channel = Mid Channel

Final 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	44.00	-46.27	29.47	-68.06	-13.00	55.06	222	344	Horizontal
2	5170.7700	42.85	-45.31	32.97	-64.74	-13.00	51.74	155	300	Horizontal
3	6894.3600	40.65	-44.10	35.95	-62.76	-13.00	49.76	147	283	Horizontal
4	8617.9500	38.98	-41.40	37.78	-59.90	-13.00	46.90	153	360	Horizontal
5	10341.5400	34.37	-39.06	38.85	-61.10	-13.00	48.10	259	120	Horizontal
6	12065.1300	31.70	-37.44	39.02	-61.98	-13.00	48.98	193	224	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	3447.1800	43.36	-46.27	29.47	-68.70	-13.00	55.70	245	44	Vertical
2	5170.7700	45.45	-45.31	32.97	-62.14	-13.00	49.14	133	192	Vertical
3	6894.3600	46.90	-44.10	35.95	-56.51	-13.00	43.51	259	149	Vertical
4	8617.9500	37.56	-41.40	37.78	-61.32	-13.00	48.32	175	357	Vertical
5	10341.5400	34.93	-39.06	38.85	-60.54	-13.00	47.54	142	360	Vertical
6	12065.1300	31.71	-37.44	39.02	-61.97	-13.00	48.97	162	352	Vertical



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Test Band = LTE Band 4_ TM1

Test Channel = High Channel

Final 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	44.59	-46.27	29.50	-67.44	-13.00	54.44	201	342	Horizontal
2	5208.2700	41.81	-45.26	32.98	-65.73	-13.00	52.73	154	57	Horizontal
3	6944.3600	40.30	-43.85	36.01	-62.80	-13.00	49.80	175	4	Horizontal
4	8680.4500	38.17	-41.62	37.88	-60.83	-13.00	47.83	136	117	Horizontal
5	10416.5400	33.66	-38.97	38.88	-61.70	-13.00	48.70	259	360	Horizontal
6	12152.6300	32.75	-37.42	39.09	-60.84	-13.00	47.84	155	359	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	3472.1800	43.19	-46.27	29.50	-68.84	-13.00	55.84	215	43	Vertical
2	5208.2700	46.42	-45.26	32.98	-61.12	-13.00	48.12	148	165	Vertical
3	6944.3600	40.52	-43.85	36.01	-62.58	-13.00	49.58	156	179	Vertical
4	8680.4500	38.45	-41.62	37.88	-60.55	-13.00	47.55	299	360	Vertical
5	10416.5400	33.91	-38.97	38.88	-61.45	-13.00	48.45	182	165	Vertical
6	12152.6300	31.87	-37.42	39.09	-61.72	-13.00	48.72	302	283	Vertical



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Wireless Laboratory

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Test Band = UL CA Band 2A-4A_ 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	3422.18	49.70	-111.71	-62.01	-13.00	49.01	263	3	Horizontal
2	3702.18	50.31	-111.07	-60.76	-13.00	47.76	251	341	Horizontal
3	5133.27	50.07	-106.90	-56.83	-13.00	43.83	174	32	Horizontal
4	5553.27	49.42	-106.36	-56.94	-13.00	43.94	186	113	Horizontal
5	6844.36	48.53	-101.87	-53.34	-13.00	40.34	264	113	Horizontal
6	7404.36	47.66	-100.78	-53.12	-13.00	40.12	188	291	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.18	50.22	-111.71	-61.49	-13.00	48.49	263	360	Vertical
2	3702.18	50.74	-111.07	-60.33	-13.00	47.33	145	247	Vertical
3	5133.27	48.99	-106.90	-57.91	-13.00	44.91	264	66	Vertical
4	5553.27	49.54	-106.36	-56.82	-13.00	43.82	177	166	Vertical
5	6844.36	47.57	-101.87	-54.30	-13.00	41.30	263	314	Vertical
6	7404.36	49.11	-100.78	-51.67	-13.00	38.67	210	297	Vertical



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Test Band = UL CA Band 2A-4A_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	3447.18	50.41	-111.65	-61.24	-13.00	48.24	163	116	Horizontal
2	3742.18	52.01	-110.86	-58.85	-13.00	45.85	251	352	Horizontal
3	5170.77	49.60	-106.85	-57.25	-13.00	44.25	176	229	Horizontal
4	5613.27	49.64	-106.14	-56.50	-13.00	43.50	265	343	Horizontal
5	6894.36	47.20	-101.71	-54.51	-13.00	41.51	185	49	Horizontal
6	7484.36	47.67	-100.43	-52.76	-13.00	39.76	144	3	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.18	50.05	-111.65	-61.60	-13.00	48.60	263	360	Vertical
2	3742.18	50.94	-110.86	-59.92	-13.00	46.92	241	326	Vertical
3	5170.77	50.53	-106.85	-56.32	-13.00	43.32	176	131	Vertical
4	5613.27	50.28	-106.14	-55.86	-13.00	42.86	284	360	Vertical
5	6894.36	48.63	-101.71	-53.08	-13.00	40.08	196	179	Vertical
6	7484.36	49.13	-100.43	-51.30	-13.00	38.30	241	47	Vertical



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Test Band = UL CA Band 2A-4A_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	3472.18	49.65	-111.61	-61.96	-13.00	48.96	281	360	Horizontal
2	3782.18	50.87	-110.66	-59.79	-13.00	46.79	263	162	Horizontal
3	5208.27	50.22	-106.80	-56.58	-13.00	43.58	174	344	Horizontal
4	5673.27	49.60	-105.88	-56.28	-13.00	43.28	248	358	Horizontal
5	6944.36	47.74	-101.67	-53.93	-13.00	40.93	126	359	Horizontal
6	7564.36	48.58	-100.01	-51.43	-13.00	38.43	196	3	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.18	49.75	-111.61	-61.86	-13.00	48.86	264	342	Vertical
2	3782.18	50.61	-110.66	-60.05	-13.00	47.05	263	31	Vertical
3	5208.27	49.65	-106.80	-57.15	-13.00	44.15	188	342	Vertical
4	5673.27	49.55	-105.88	-56.33	-13.00	43.33	214	194	Vertical
5	6944.36	46.68	-101.67	-54.99	-13.00	41.99	174	162	Vertical
6	7564.36	48.97	-100.01	-51.04	-13.00	38.04	123	179	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	-2.30	-0.001328	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-1.20	-0.000693	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-2.20	-0.001270	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	0.00	0.000000	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-1.00	-0.000577	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-0.70	-0.000404	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-2.20	-0.001270	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-2.00	-0.001154	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-0.70	-0.000404	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-1.30	-0.000750	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-1.10	-0.000635	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-0.10	-0.000058	PASS

---End of Attachment---



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