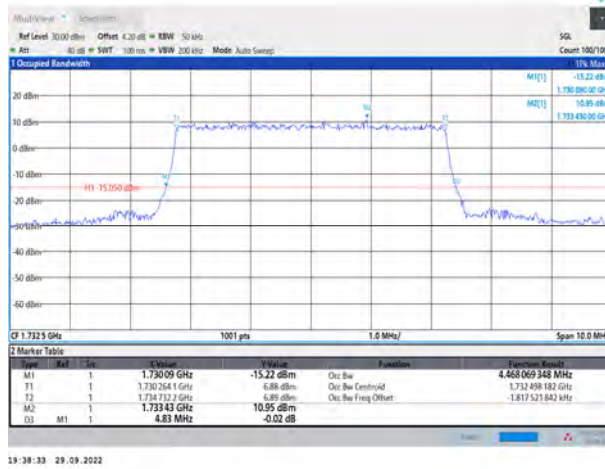
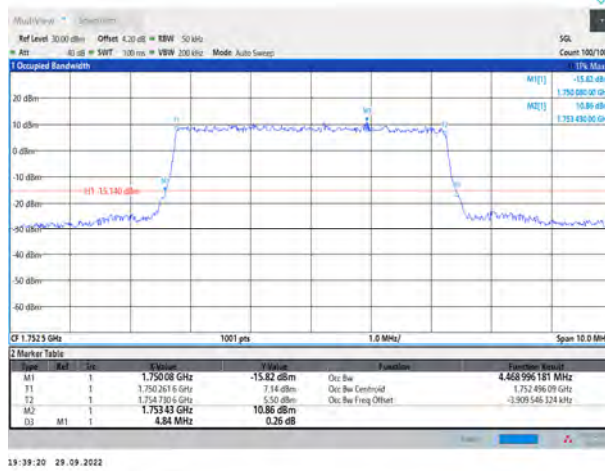


Band4-5MHz-256QAM-20175-25RB#0



Band4-5MHz-256QAM-20375-25RB#0

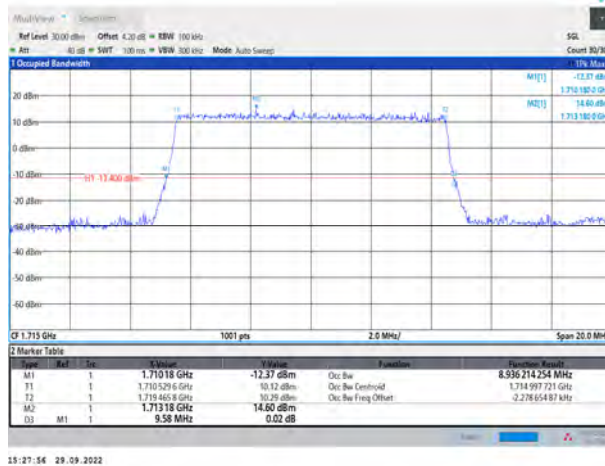


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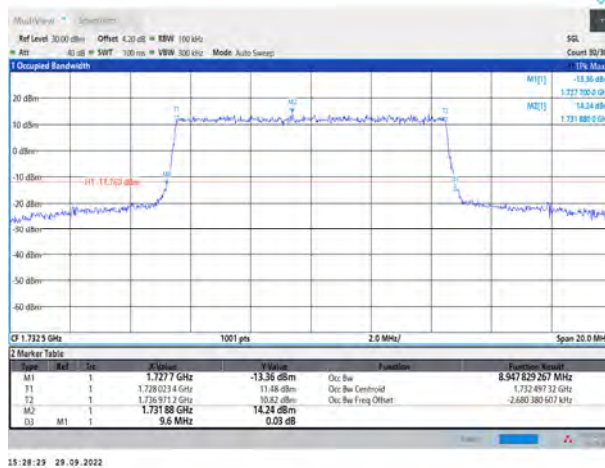
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Band4-10MHz-QPSK-20000-50RB#0



Band4-10MHz-QPSK-20175-50RB#0

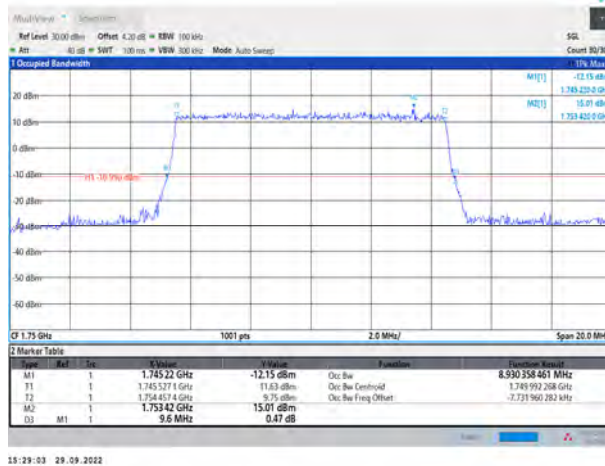


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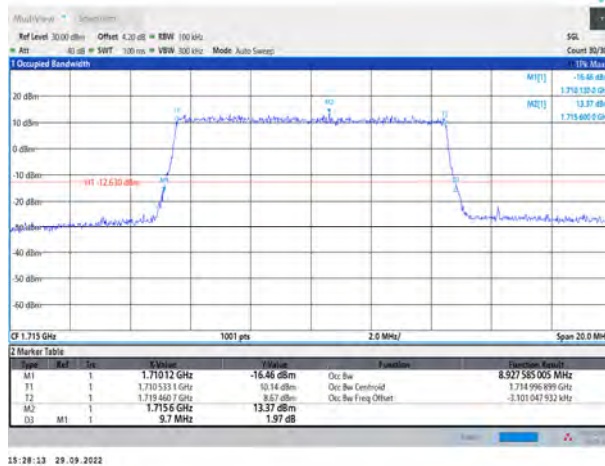
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Band4-10MHz-QPSK-20350-50RB#0



Band4-10MHz-16QAM-20000-50RB#0

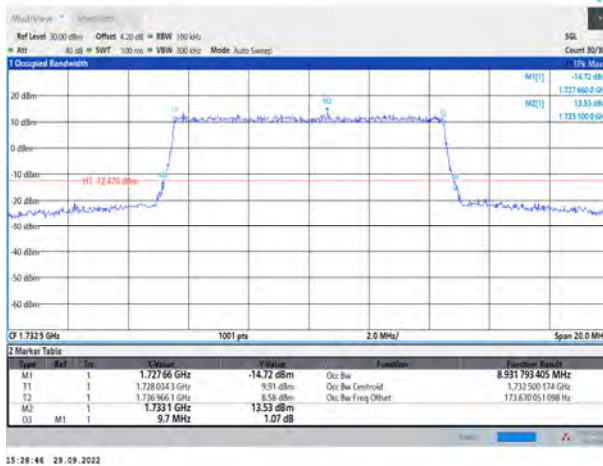


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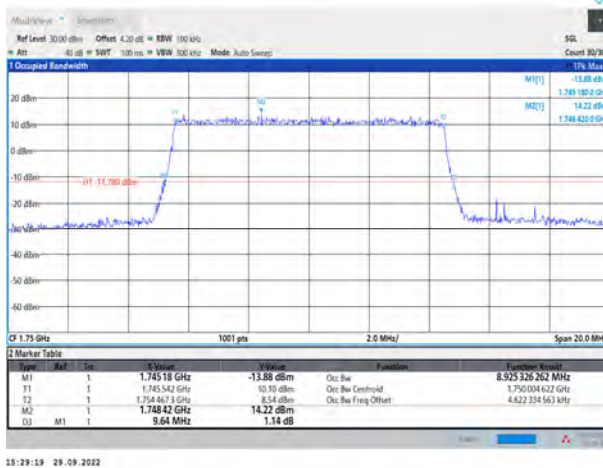
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Band4-10MHz-16QAM-20175-50RB#0



Band4-10MHz-16QAM-20350-50RB#0



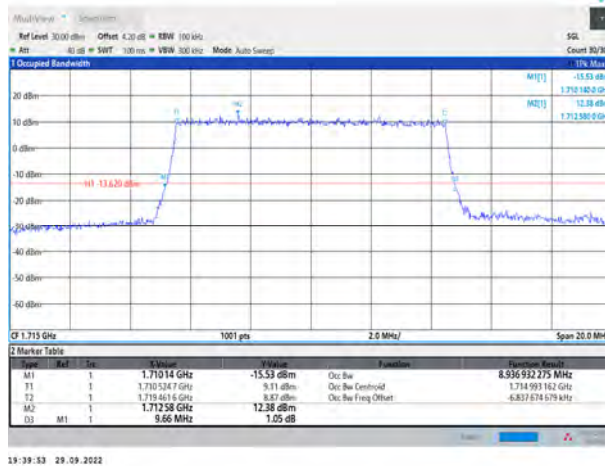
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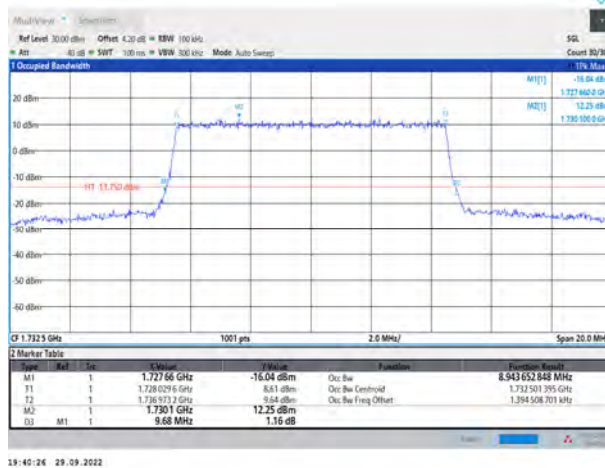
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Band4-10MHz-64QAM-20000-50RB#0



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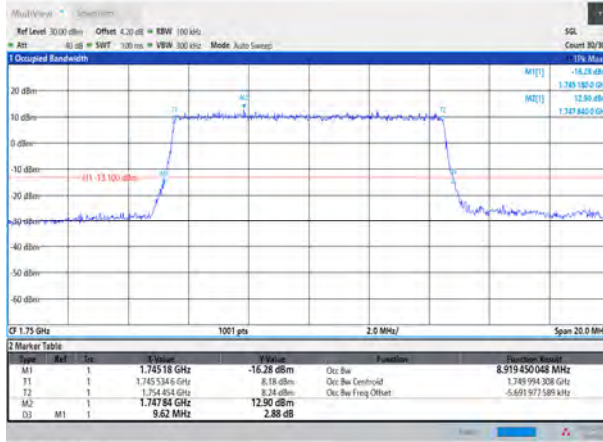


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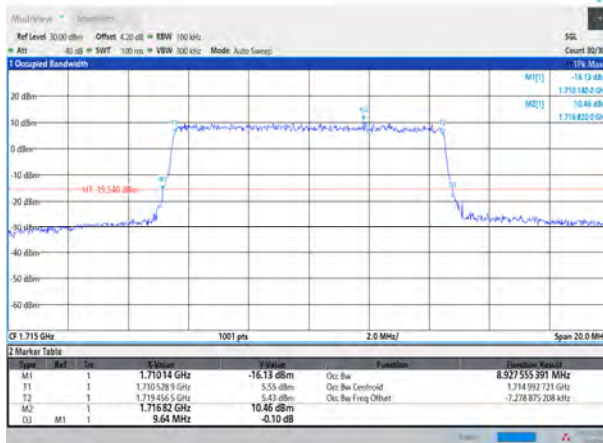
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Band4-10MHz-64QAM-20350-50RB#0



19:40:59 29.09.2022

Band4-10MHz-256QAM-20000-50RB#0



19:40:09 29.09.2022

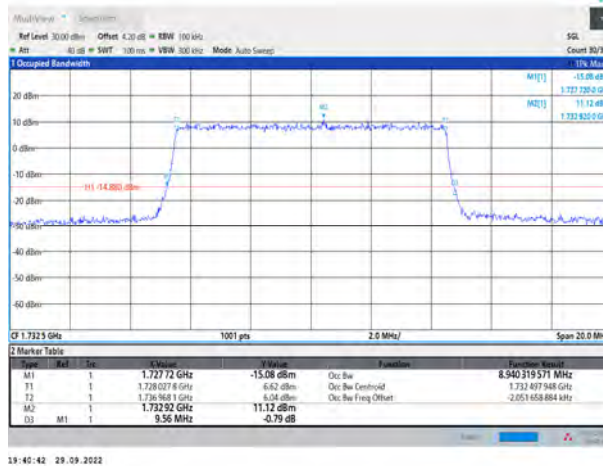


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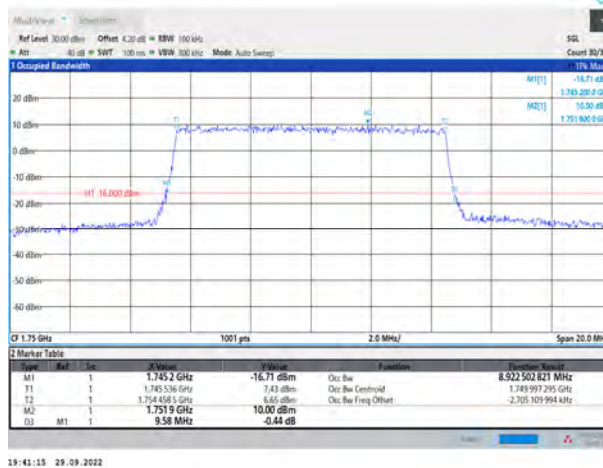
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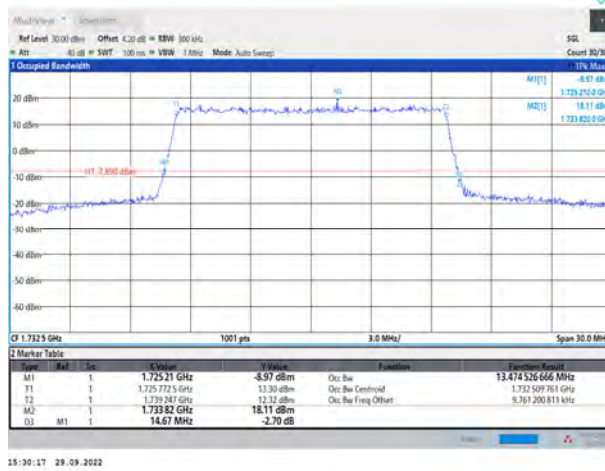
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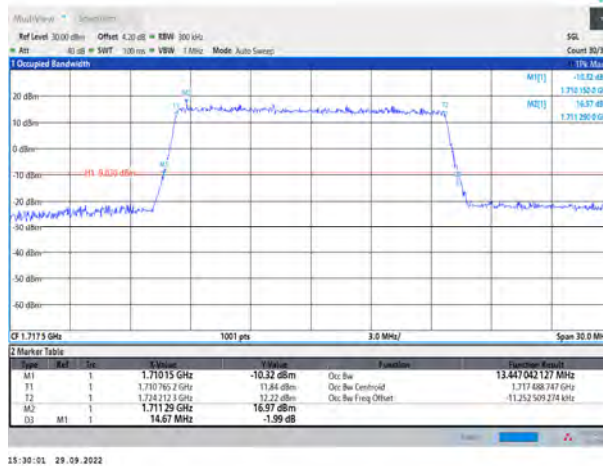
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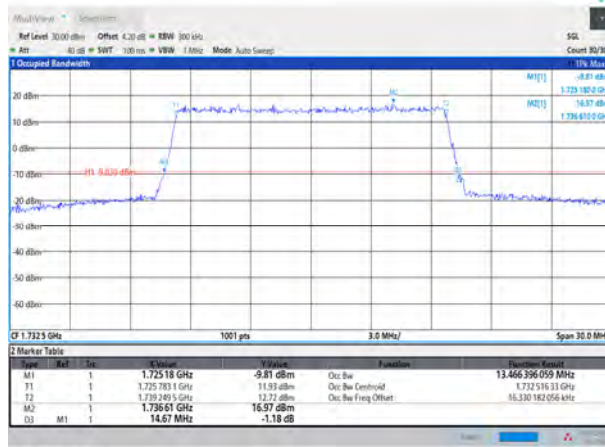


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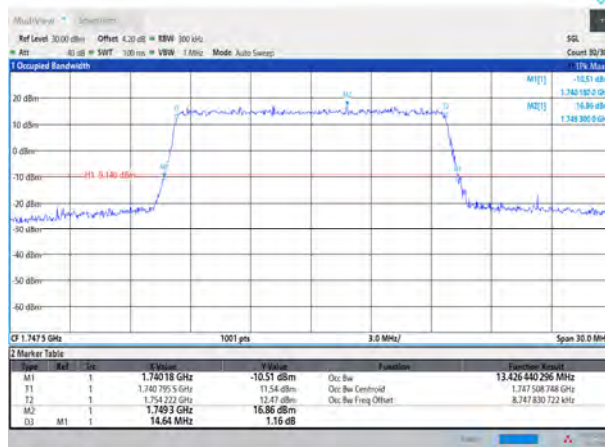
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Band4-15MHz-16QAM-20325-75RB#0



15:31:07 29.09.2022

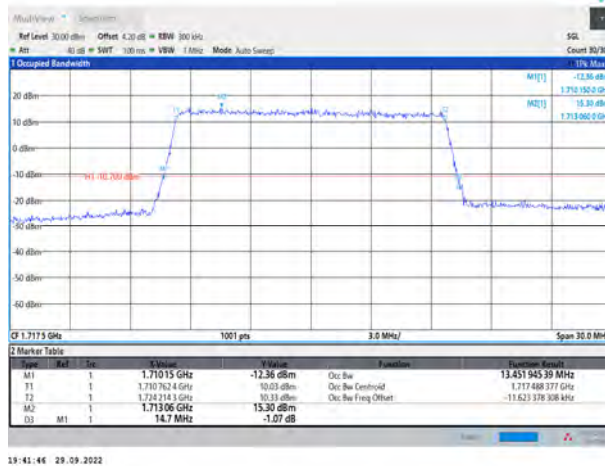


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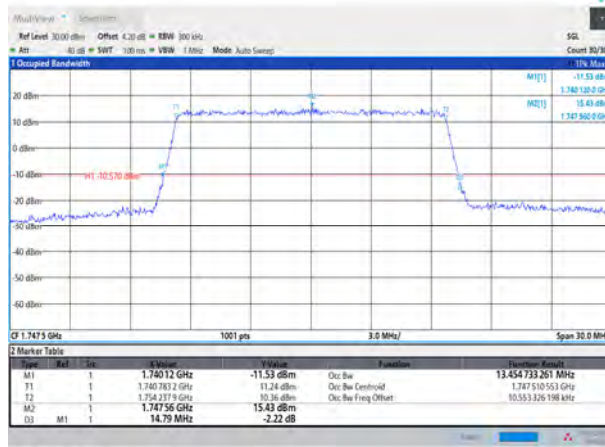


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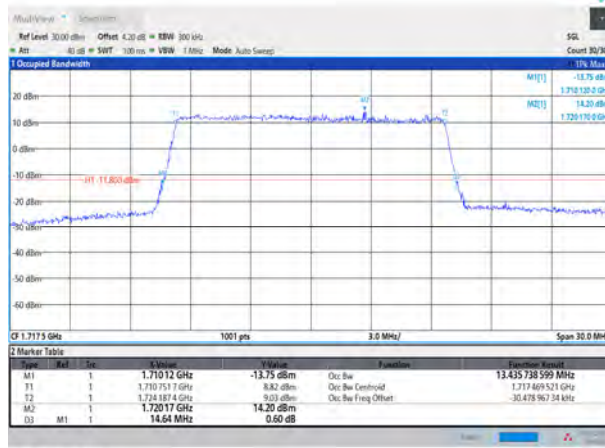
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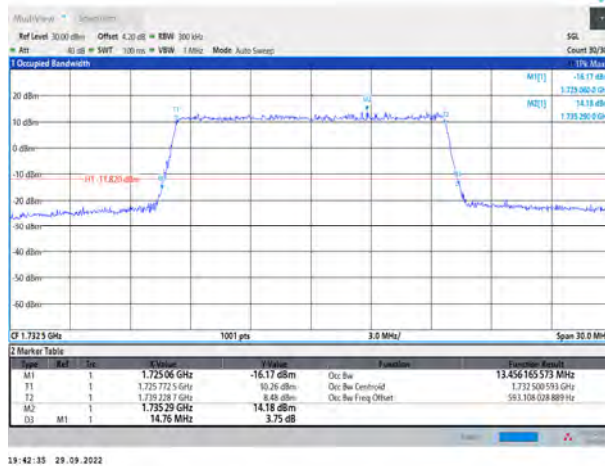
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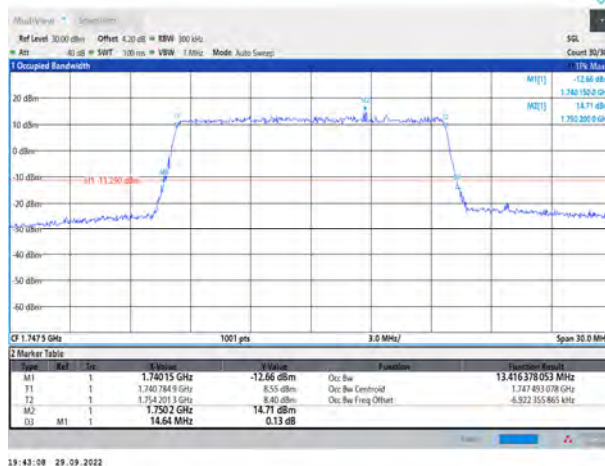
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Band4-15MHz-256QAM-20175-75RB#0



Band4-15MHz-256QAM-20325-75RB#0



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



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

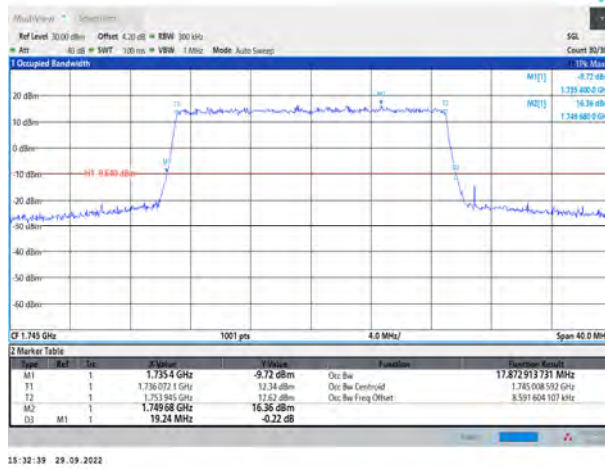


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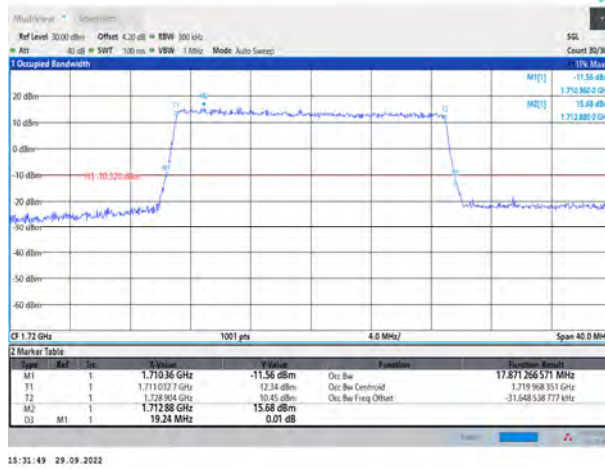
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Band4-20MHz-QPSK-20300-100RB#0



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

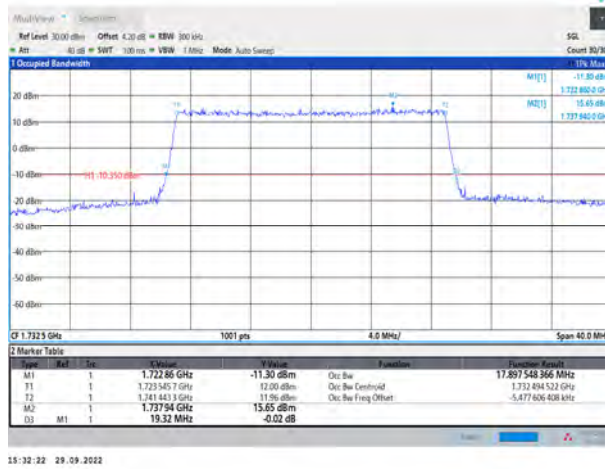


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Band4-20MHz-16QAM-20175-100RB#0



Band4-20MHz-16QAM-20300-100RB#0



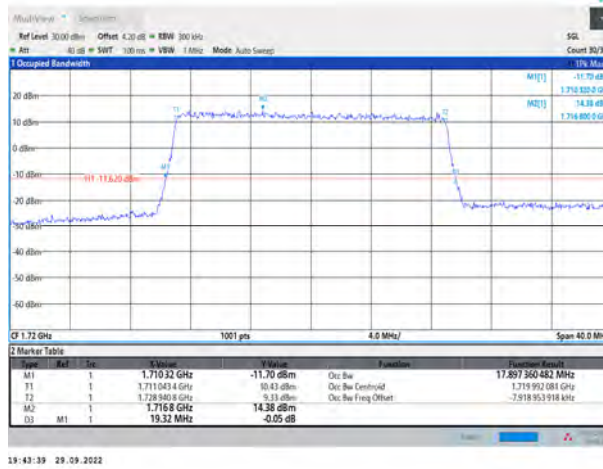
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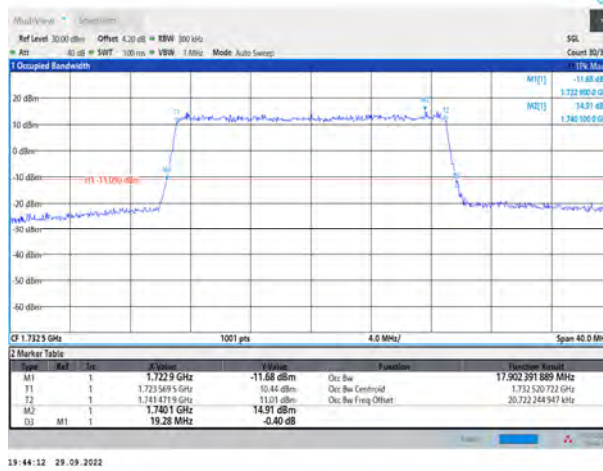
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Band4-20MHz-64QAM-20050-100RB#0



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

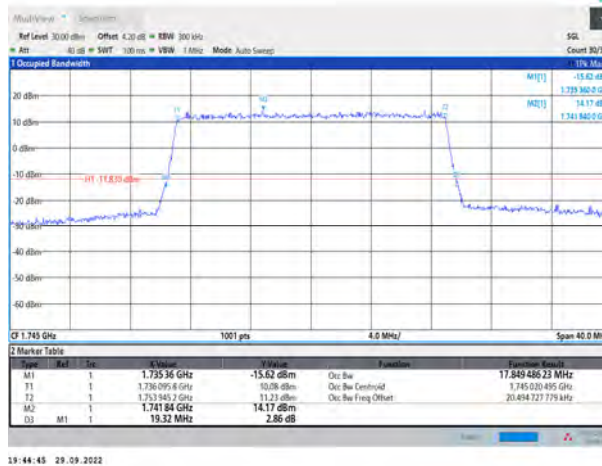


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Band4-20MHz-64QAM-20300-100RB#0



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



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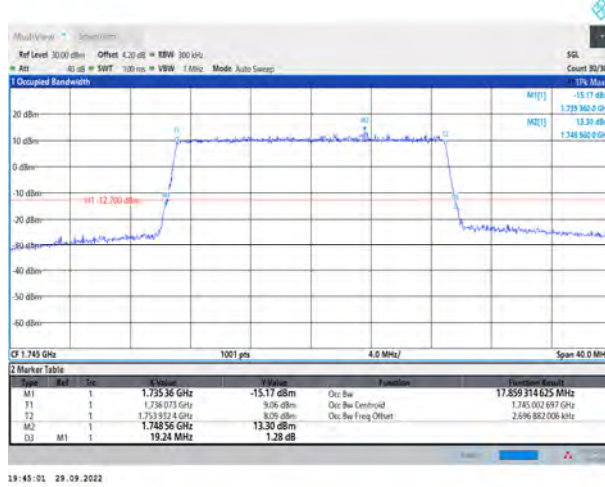
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Band4-20MHz-256QAM-20175-100RB#0



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



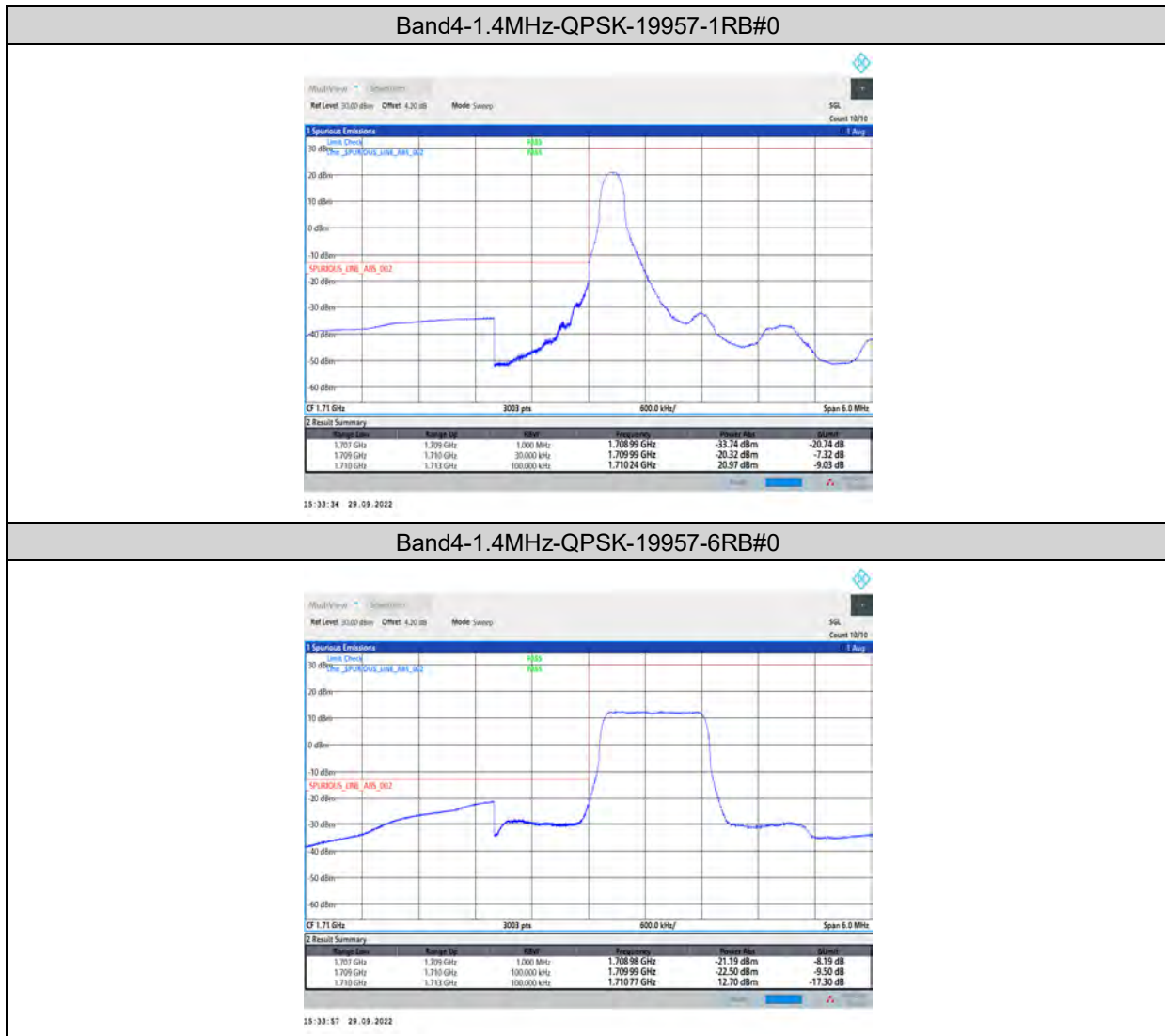
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## Band Edge

## Test Graphs



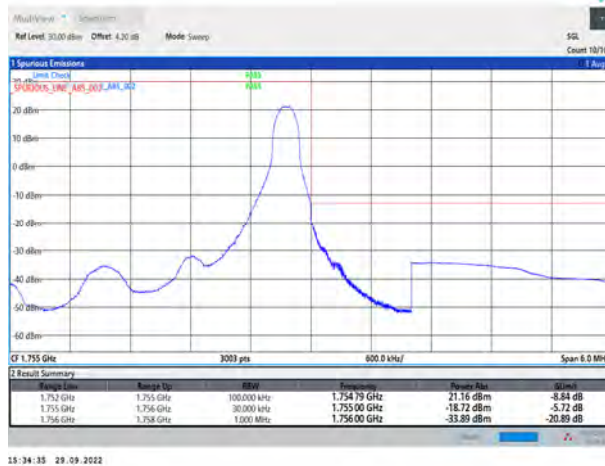
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Band4-1.4MHz-QPSK-20393-1RB#5



Band4-1.4MHz-QPSK-20393-6RB#0

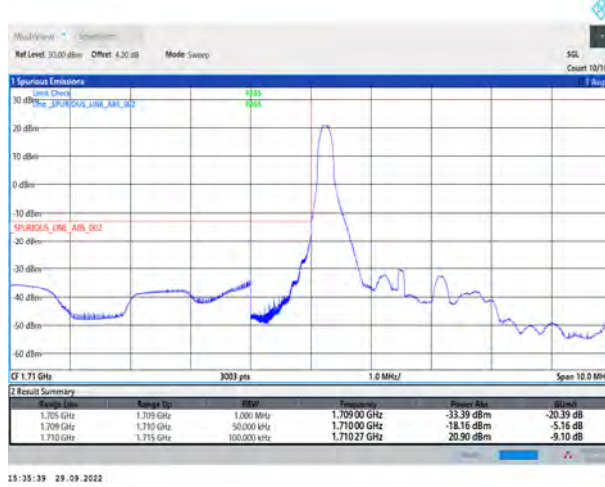


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Band4-3MHz-QPSK-19965-1RB#0



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

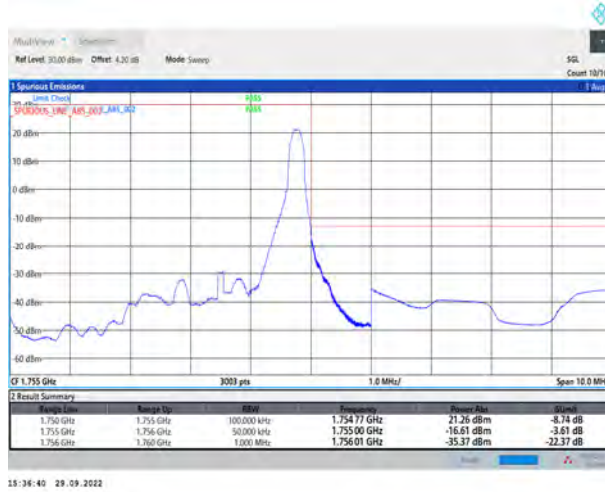


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Band4-3MHz-QPSK-20385-1RB#14



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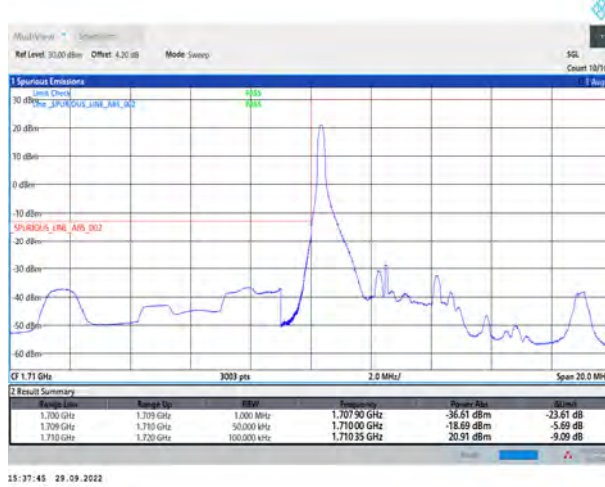


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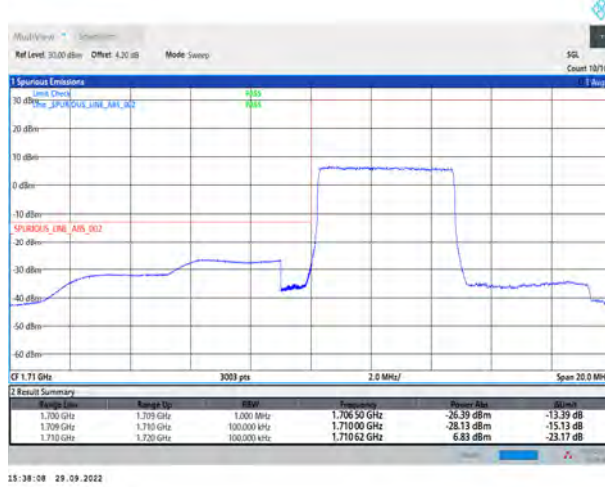
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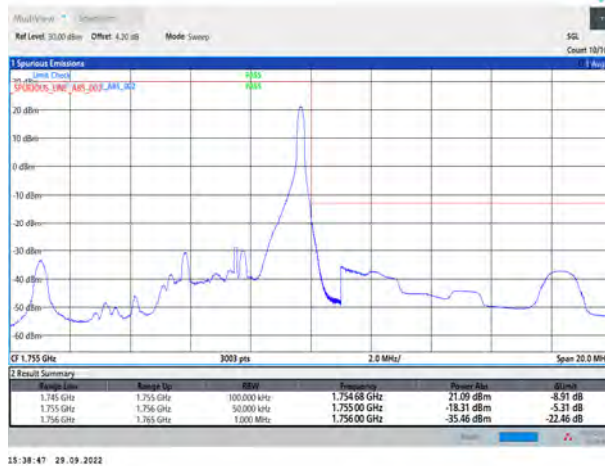
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Band4-5MHz-QPSK-20375-1RB#24



15:38:47 29.09.2022

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



15:39:11 29.09.2022

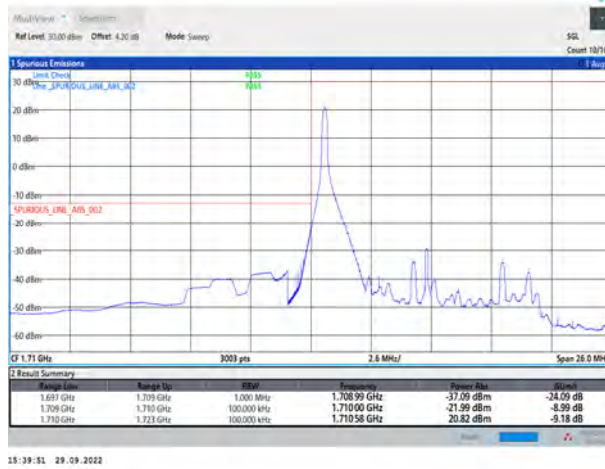


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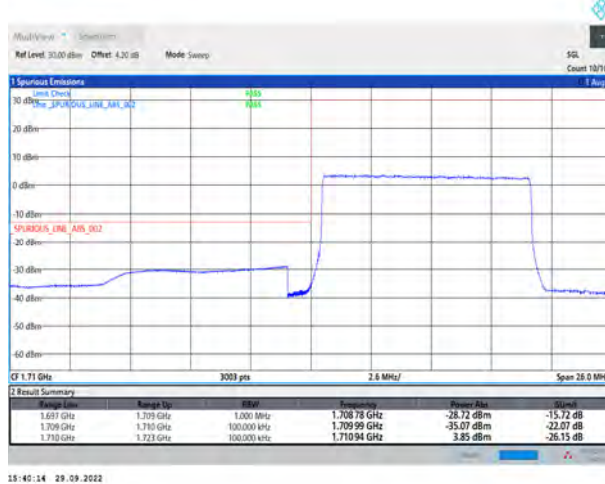
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Band4-10MHz-QPSK-20000-1RB#0



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

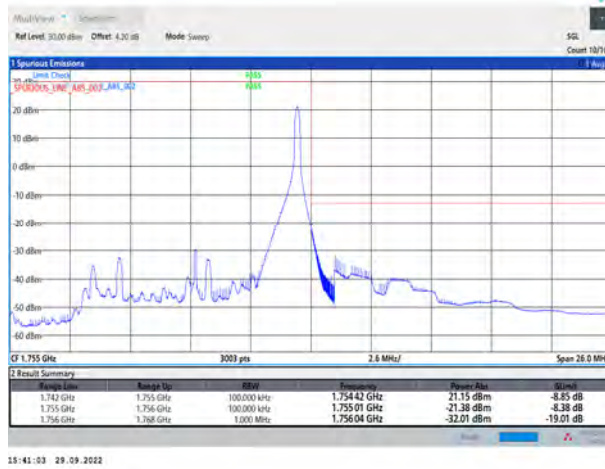


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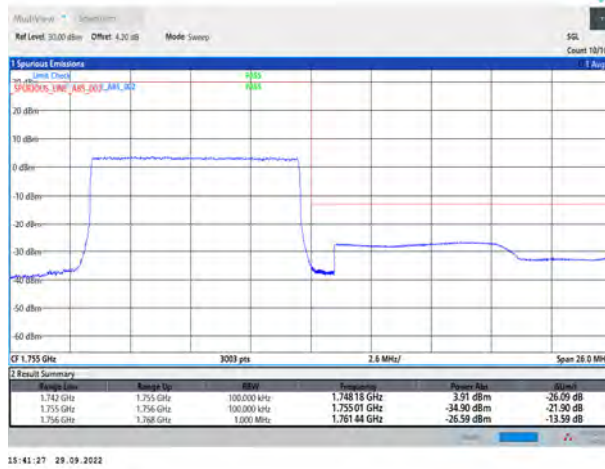
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Band4-10MHz-QPSK-20350-1RB#49



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

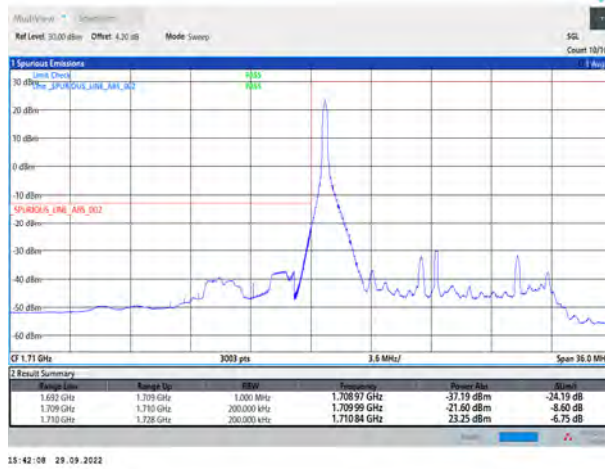


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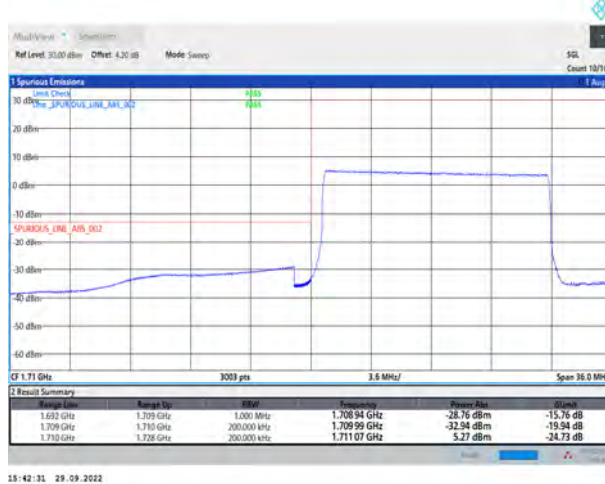
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Band4-15MHz-QPSK-20025-1RB#0



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



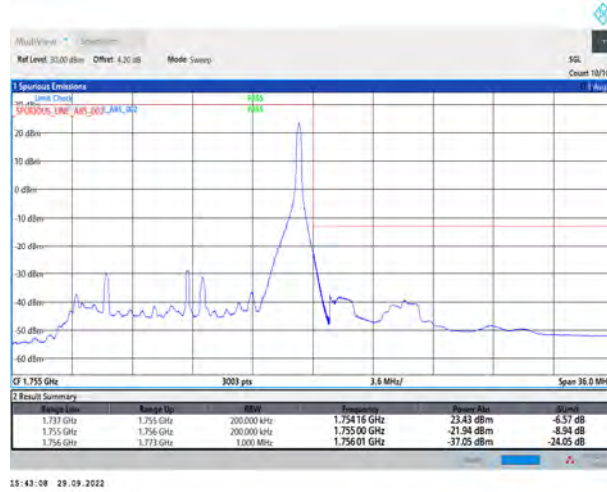
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Band4-15MHz-QPSK-20325-1RB#74



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

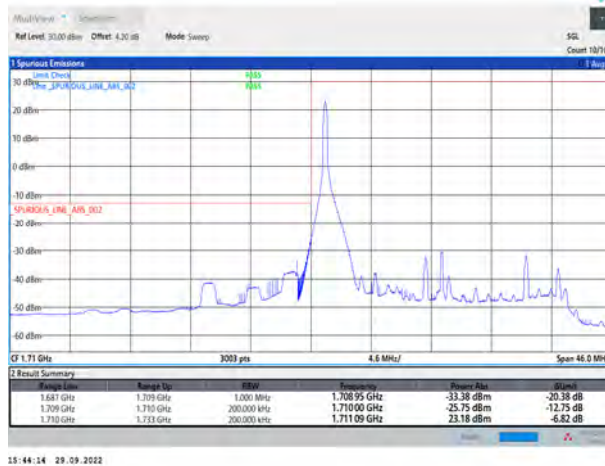


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Band4-20MHz-QPSK-20050-1RB#0



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

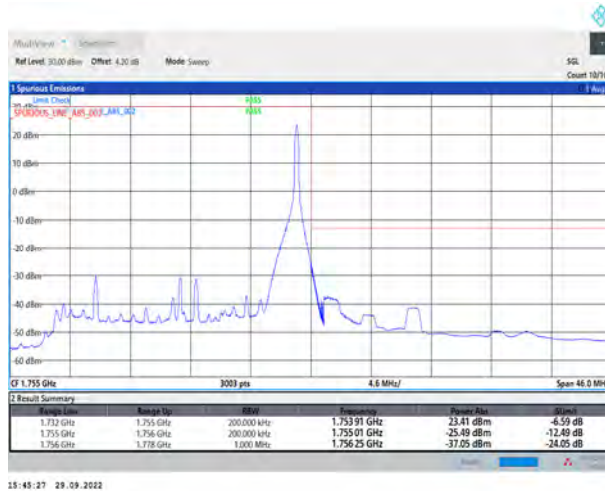


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Band4-20MHz-QPSK-20300-1RB#99



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



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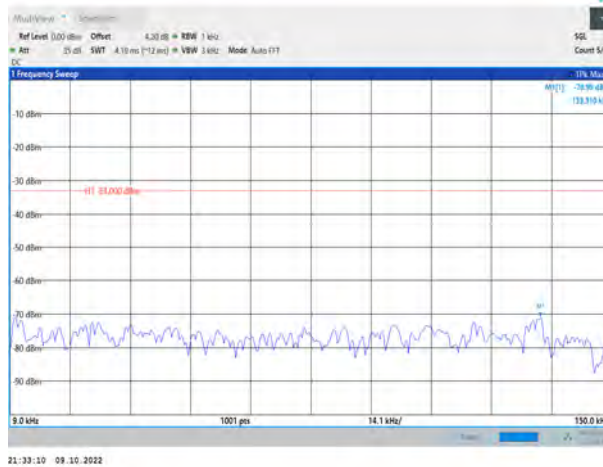
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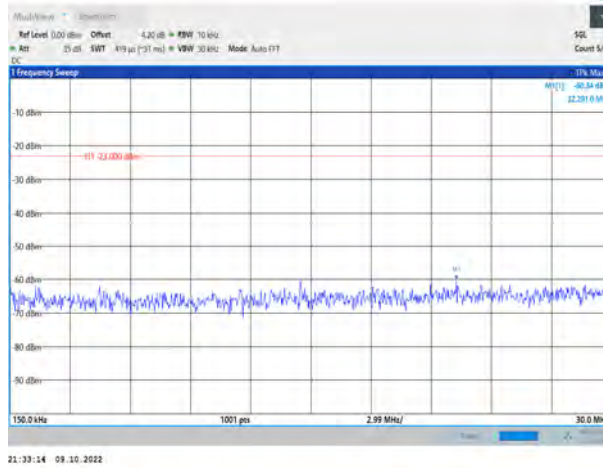
## Conducted Spurious Emission

### Test Graphs

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



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



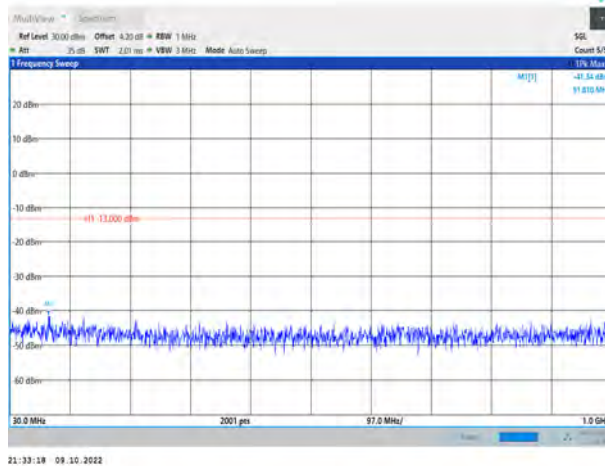
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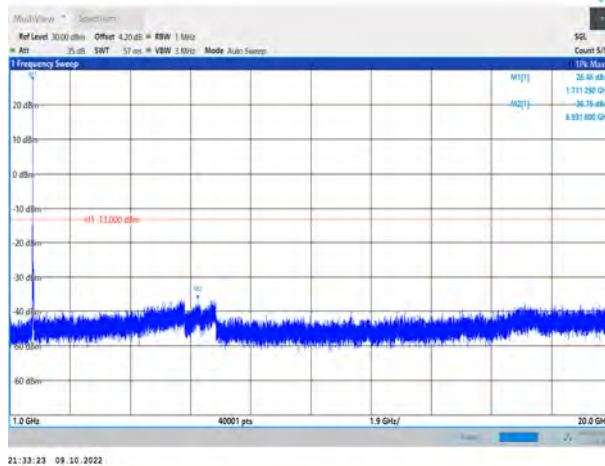
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



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

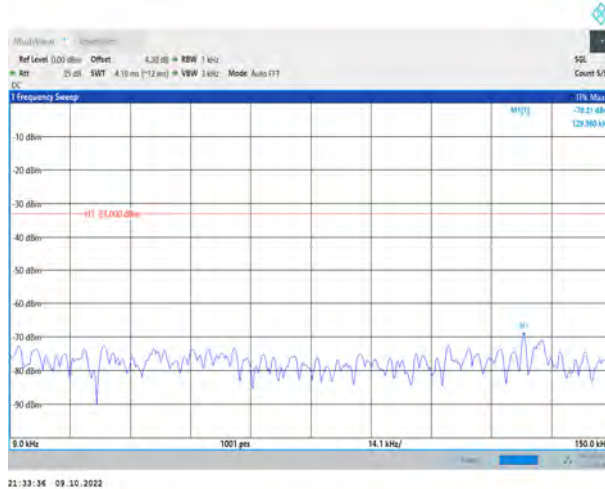


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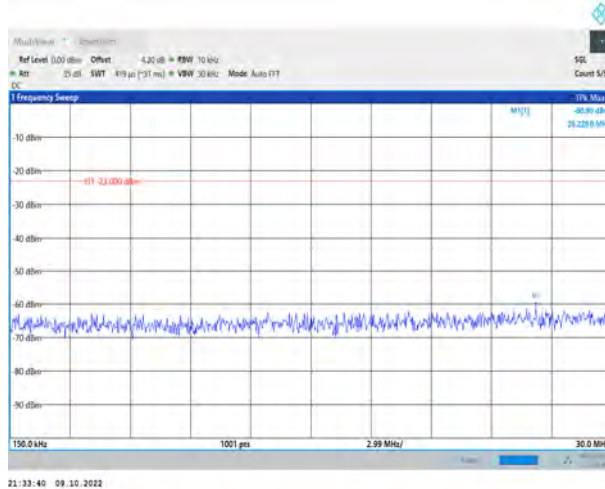
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



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

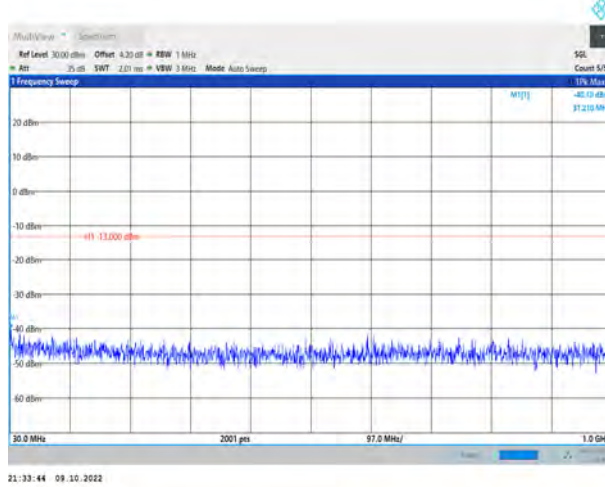


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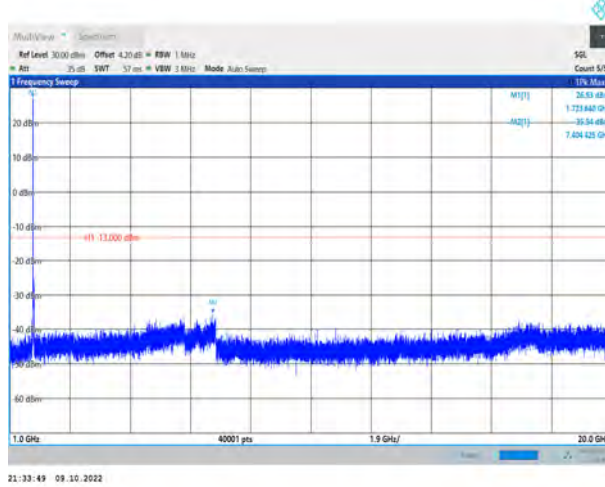
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



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

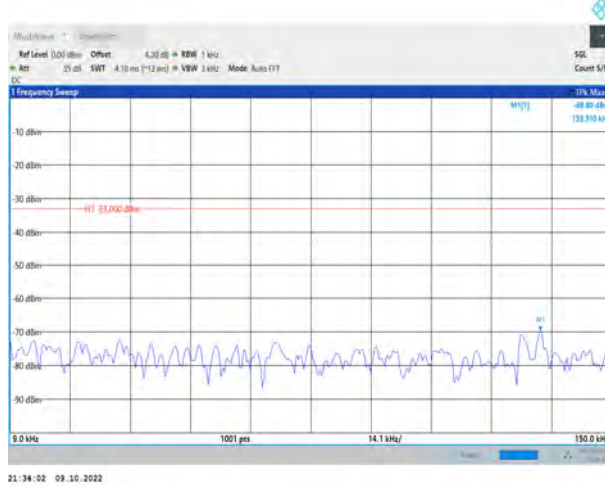


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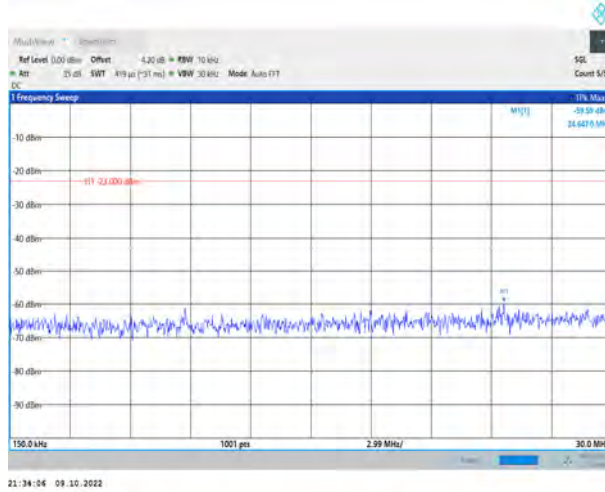
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



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



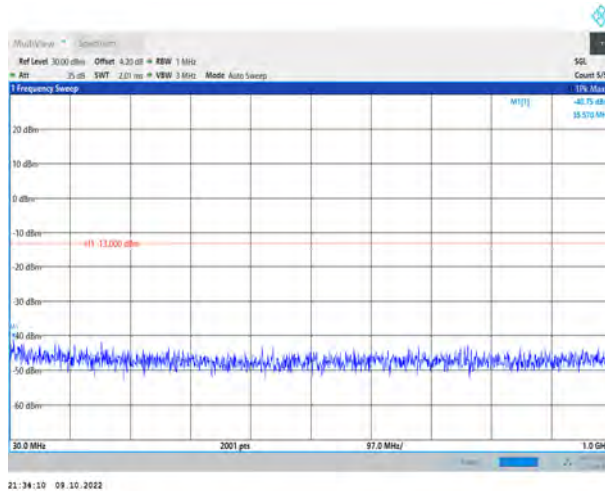
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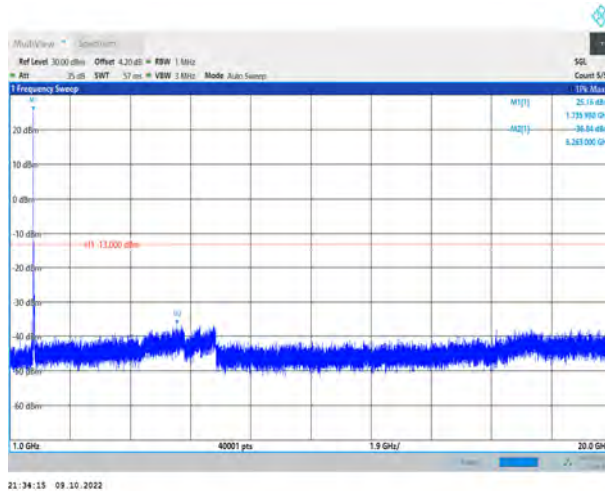
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



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



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### Field Strength of Spurious Radiation

Test Band = LTE Band4\_ 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	3422.1800	57.92	-46.28	29.45	-54.17	-13.00	41.17	156	4	Horizontal
2	5133.2700	47.00	-45.34	32.95	-60.65	-13.00	47.65	213	44	Horizontal
3	6844.3600	49.21	-44.14	35.89	-54.30	-13.00	41.30	145	358	Horizontal
4	8555.4500	42.31	-41.46	37.66	-56.75	-13.00	43.75	166	44	Horizontal
5	10266.5400	36.79	-39.23	38.83	-58.87	-13.00	45.87	291	359	Horizontal
6	11977.6300	31.57	-37.51	38.95	-62.26	-13.00	49.26	142	4	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	64.19	-46.28	29.45	-47.90	-13.00	34.90	158	287	Vertical
2	5133.2700	48.38	-45.34	32.95	-59.27	-13.00	46.27	162	182	Vertical
3	6844.3600	53.06	-44.14	35.89	-50.45	-13.00	37.45	148	104	Vertical
4	8555.4500	43.01	-41.46	37.66	-56.05	-13.00	43.05	132	4	Vertical
5	10266.5400	40.53	-39.23	38.83	-55.13	-13.00	42.13	188	344	Vertical
6	11977.6300	32.09	-37.51	38.95	-61.74	-13.00	48.74	190	182	Vertical



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Test Band = LTE Band4\_ 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	3447.1800	57.26	-46.27	29.47	-54.80	-13.00	41.80	122	258	Horizontal
2	5170.7700	47.18	-45.31	32.97	-60.41	-13.00	47.41	148	273	Horizontal
3	6894.3600	47.81	-44.10	35.95	-55.60	-13.00	42.60	215	138	Horizontal
4	8617.9500	42.41	-41.40	37.78	-56.47	-13.00	43.47	185	227	Horizontal
5	10341.5400	37.28	-39.06	38.85	-58.19	-13.00	45.19	142	61	Horizontal
6	12065.1300	32.35	-37.44	39.02	-61.33	-13.00	48.33	173	242	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	64.11	-46.27	29.47	-47.95	-13.00	34.95	129	360	Vertical
2	5170.7700	50.55	-45.31	32.97	-57.04	-13.00	44.04	175	102	Vertical
3	6894.3600	51.93	-44.10	35.95	-51.48	-13.00	38.48	142	118	Vertical
4	8617.9500	43.15	-41.40	37.78	-55.73	-13.00	42.73	132	102	Vertical
5	10341.5400	42.46	-39.06	38.85	-53.01	-13.00	40.01	166	59	Vertical
6	12065.1300	34.17	-37.44	39.02	-59.51	-13.00	46.51	102	357	Vertical



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Test Band = LTE Band4\_ 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	3472.1800	59.16	-46.27	29.50	-52.87	-13.00	39.87	186	136	Horizontal
2	5208.2700	47.64	-45.26	32.98	-59.90	-13.00	46.90	145	30	Horizontal
3	6944.3600	47.55	-43.85	36.01	-55.55	-13.00	42.55	162	105	Horizontal
4	8680.4500	41.98	-41.62	37.88	-57.02	-13.00	44.02	185	75	Horizontal
5	10416.5400	36.99	-38.97	38.88	-58.37	-13.00	45.37	194	360	Horizontal
6	12152.6300	35.22	-37.42	39.09	-58.37	-13.00	45.37	173	120	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	65.97	-46.27	29.50	-46.06	-13.00	33.06	255	288	Vertical
2	5208.2700	50.37	-45.26	32.98	-57.17	-13.00	44.17	148	105	Vertical
3	6944.3600	48.50	-43.85	36.01	-54.60	-13.00	41.60	168	166	Vertical
4	8680.4500	42.81	-41.62	37.88	-56.19	-13.00	43.19	152	274	Vertical
5	10416.5400	43.37	-38.97	38.88	-51.99	-13.00	38.99	142	335	Vertical
6	12152.6300	33.83	-37.42	39.09	-59.76	-13.00	46.76	139	319	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) - Pre-amplifier (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	3.00	0.001732	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-6.40	-0.003694	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-0.90	-0.000519	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	9.80	0.005657	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-5.20	-0.003001	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-2.40	-0.001385	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-5.40	-0.003117	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-5.10	-0.002944	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	2.70	0.001558	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	0.20	0.000115	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-5.70	-0.003290	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	2.00	0.001154	PASS

---End of Attachment---



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