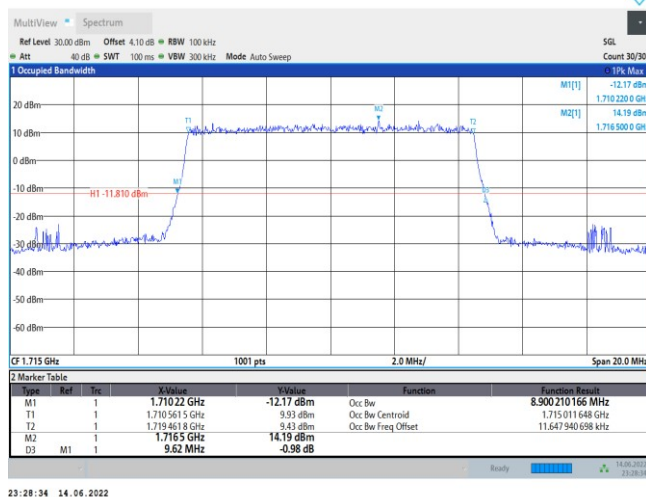


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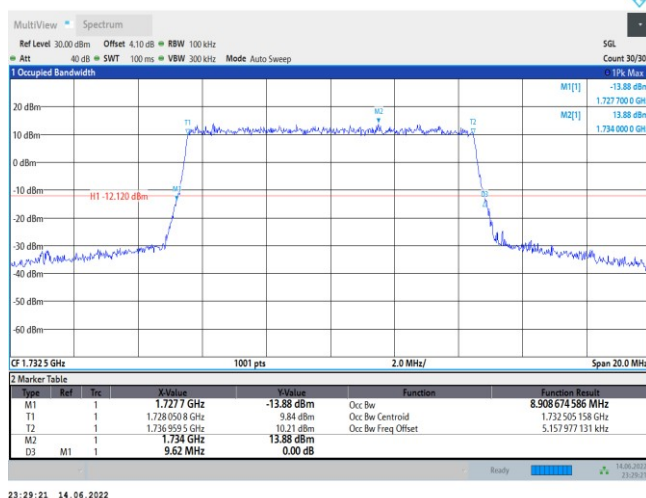
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Band4-10MHz-64QAM-20000-50RB#0



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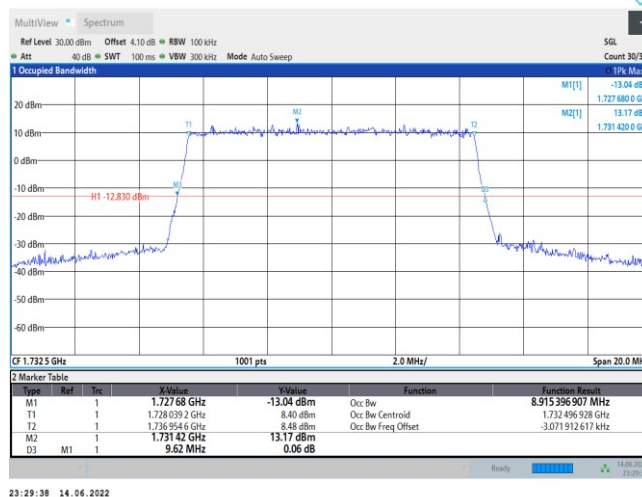
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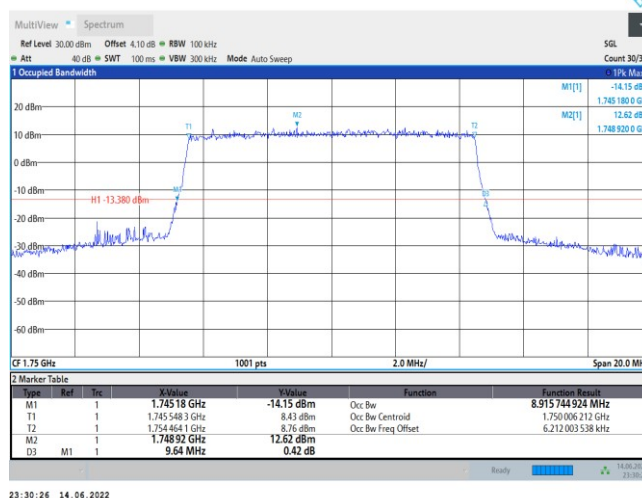
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23:30:26 14.06.2022



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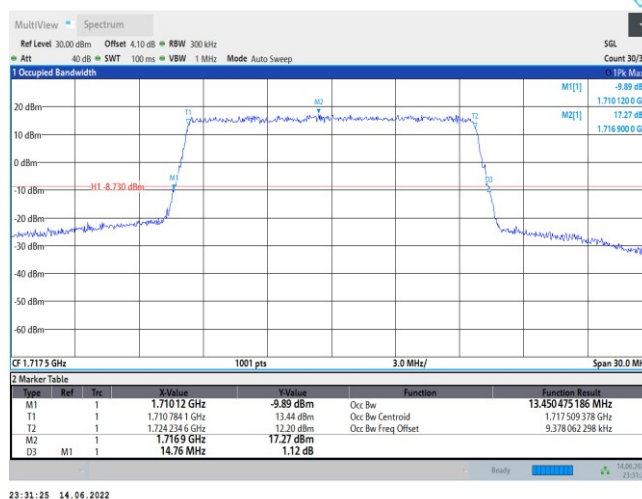
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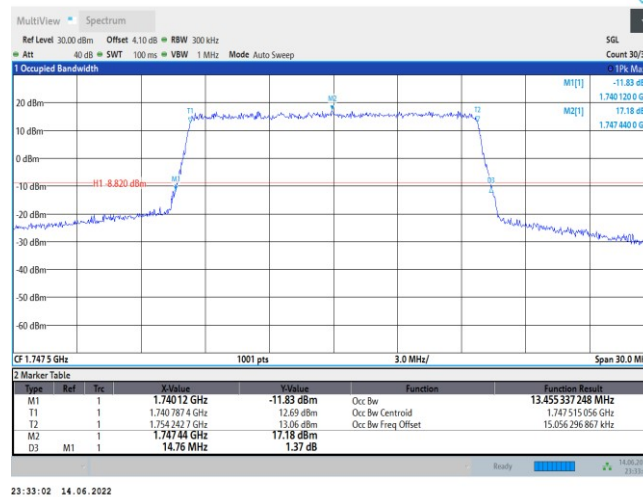
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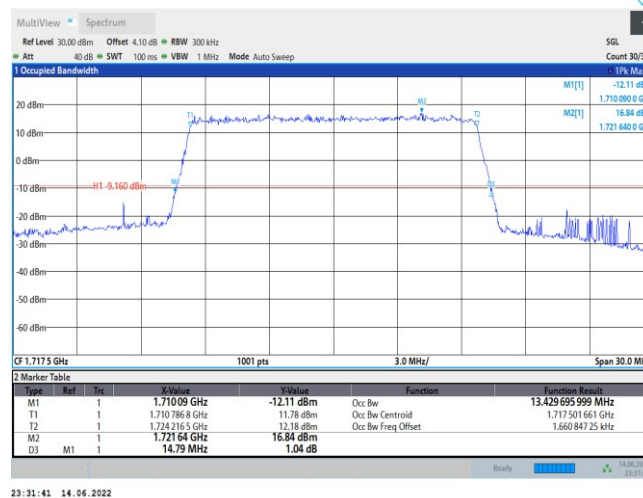
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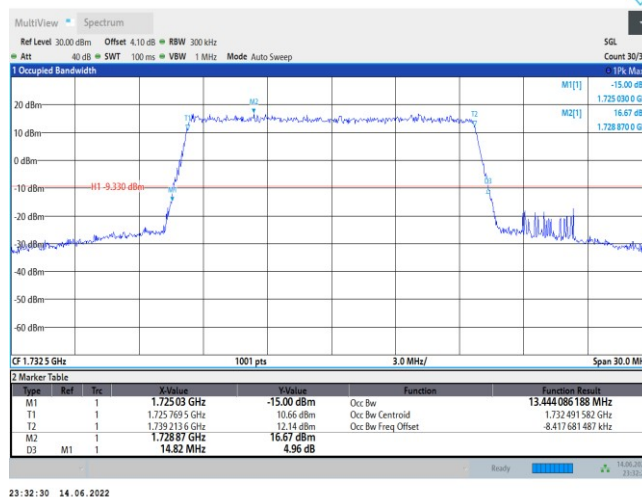
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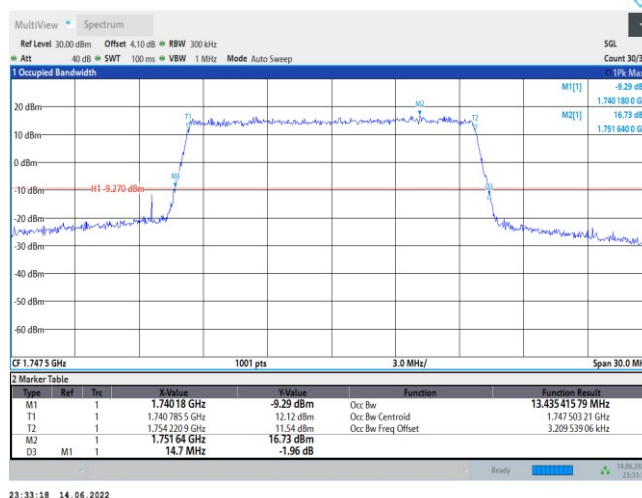
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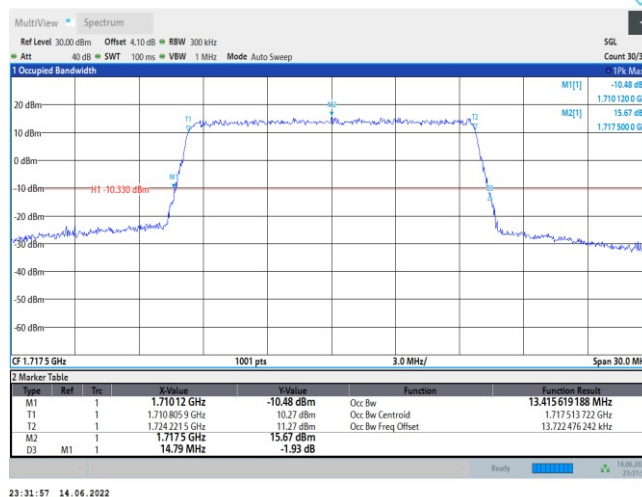
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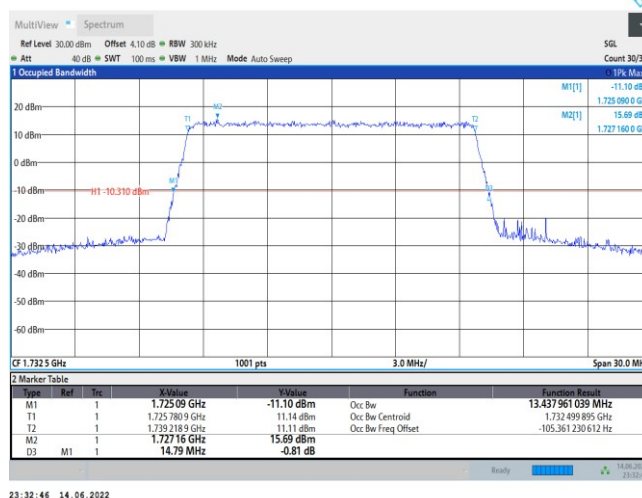
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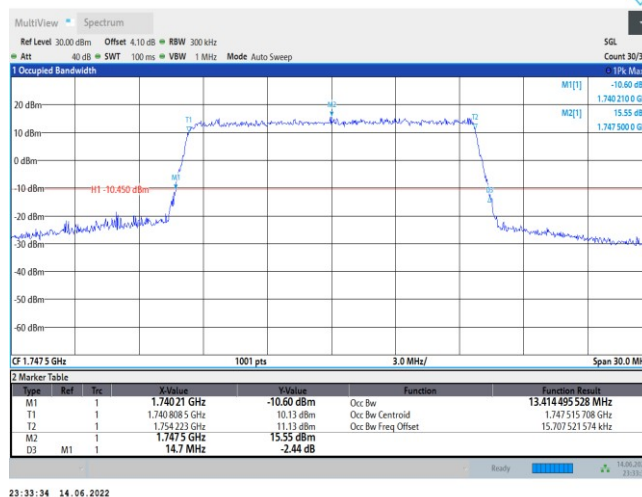
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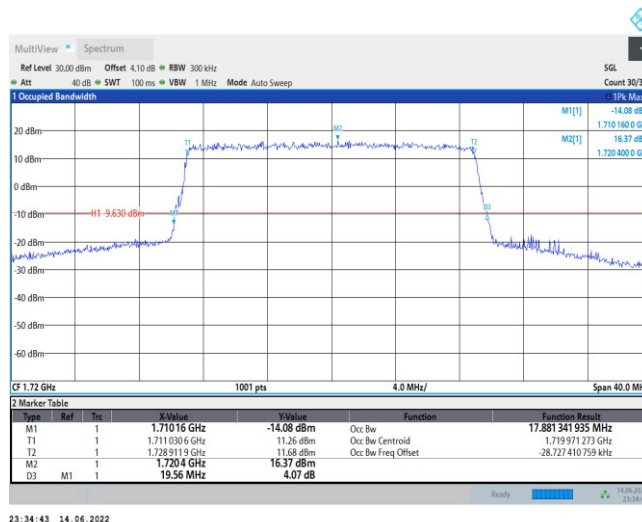
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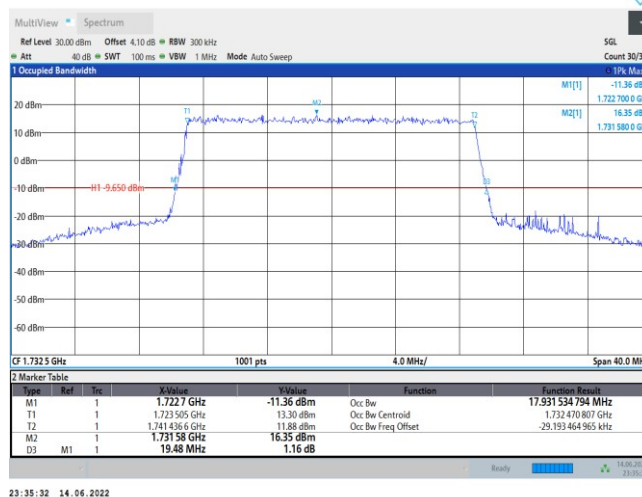
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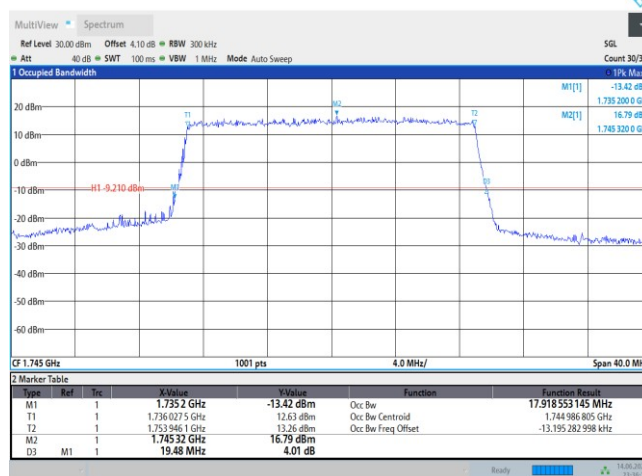
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Band4-20MHz-QPSK-20300-100RB#0



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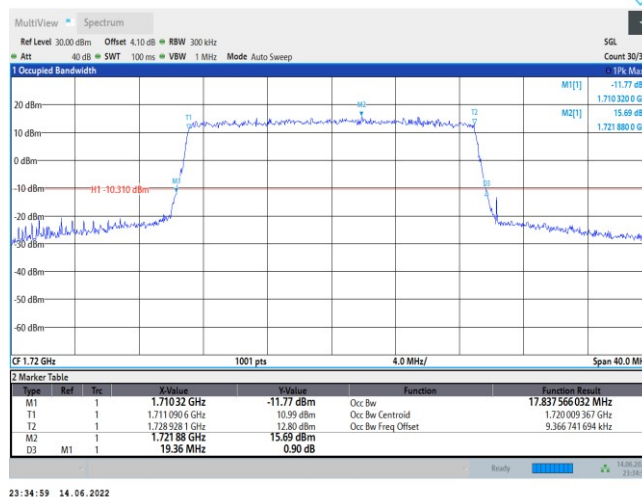
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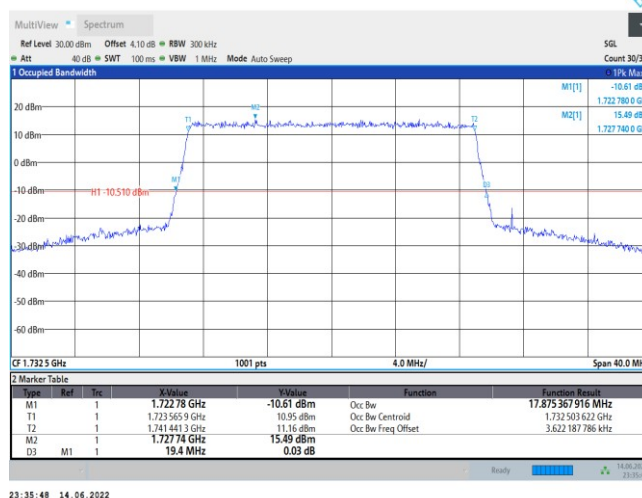
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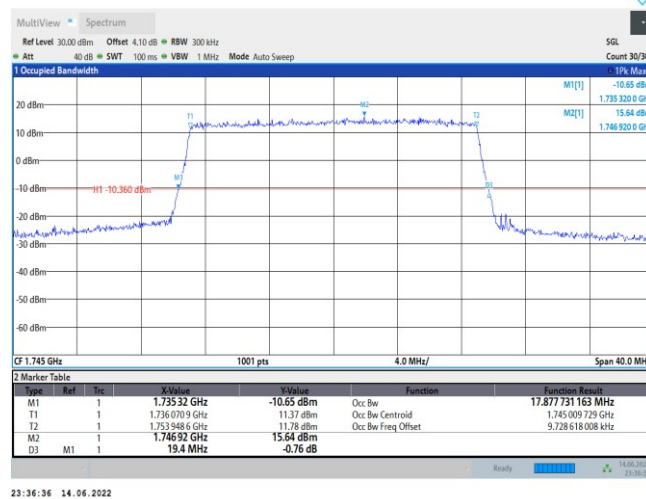
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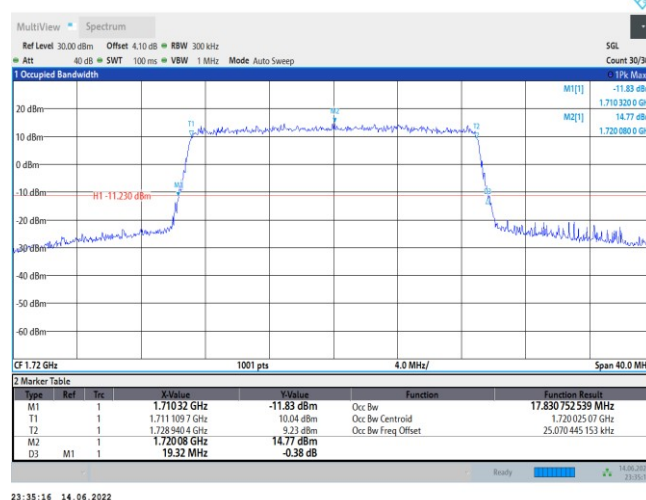
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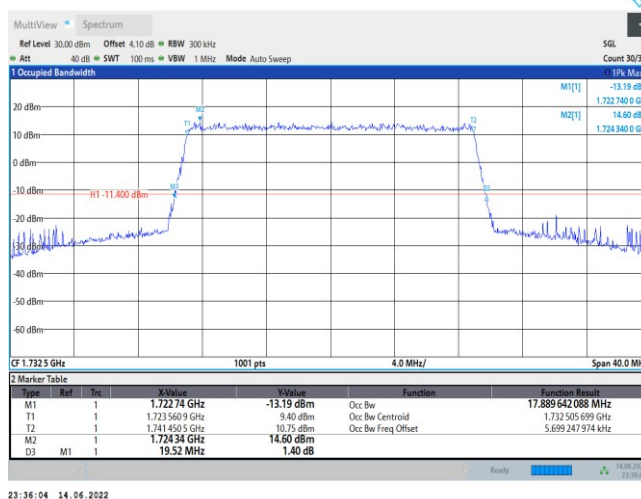
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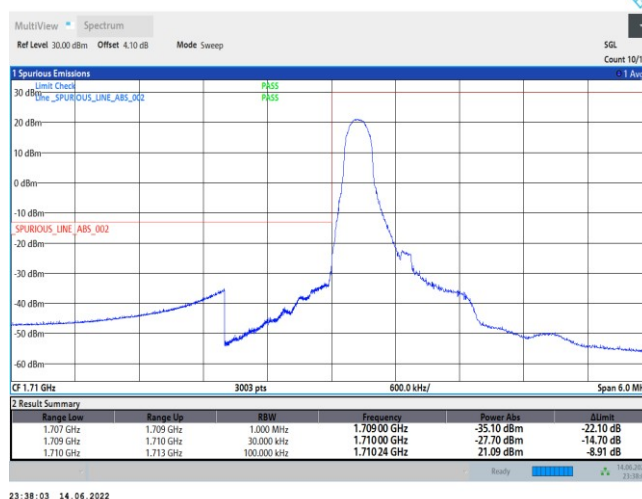
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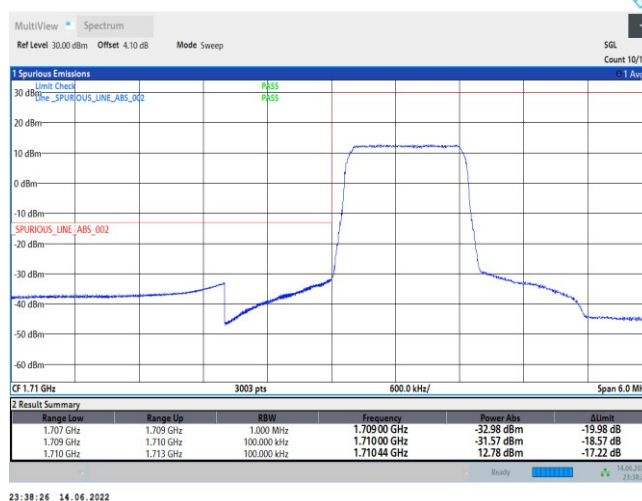
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Test Graphs

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



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



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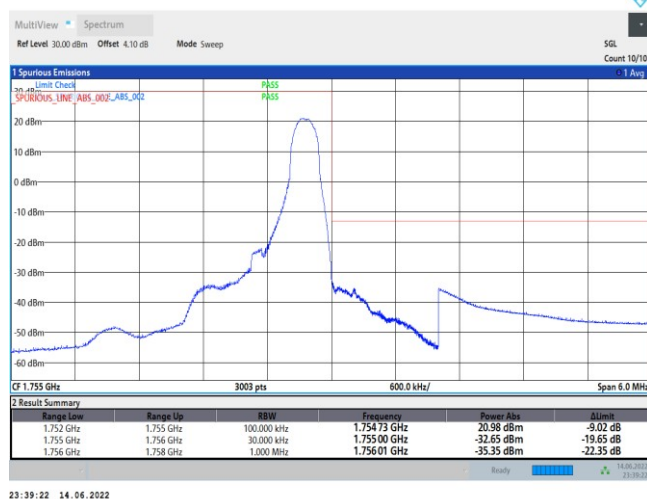
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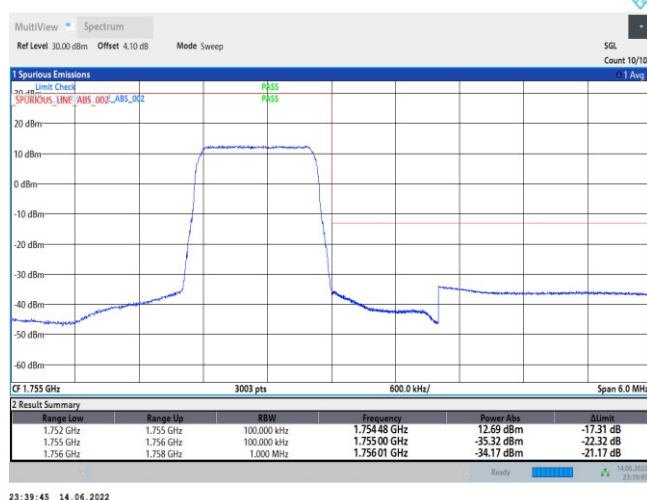
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Band4-1.4MHz-QPSK-20393-1RB#5



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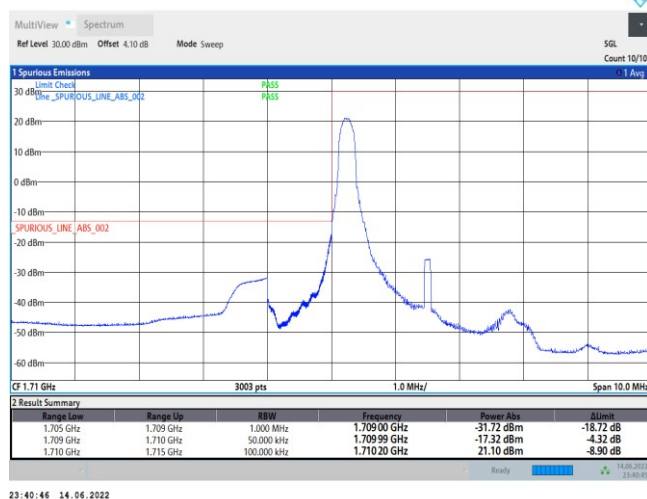
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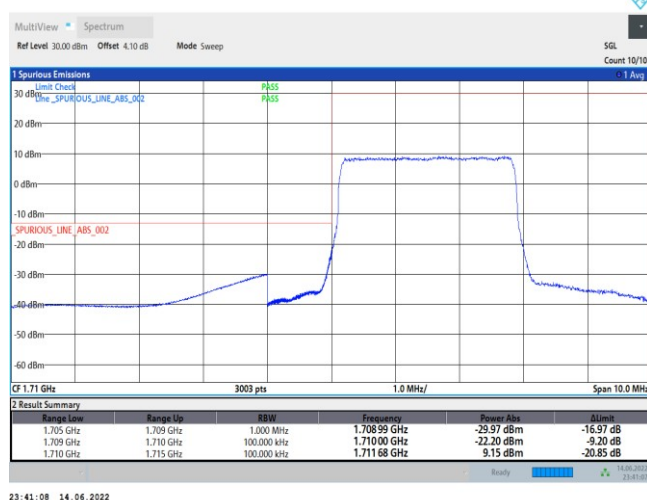
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Band4-3MHz-QPSK-19965-1RB#0



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



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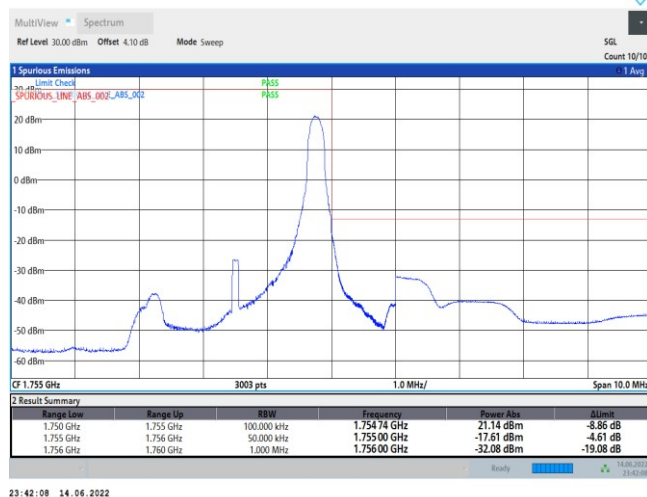
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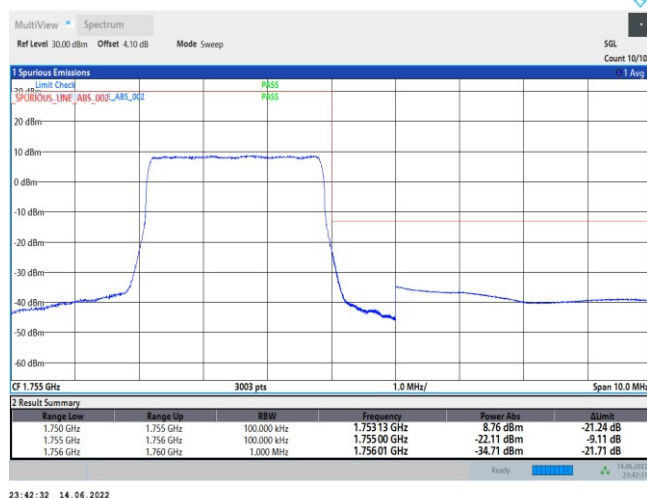
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Band4-3MHz-QPSK-20385-1RB#14



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



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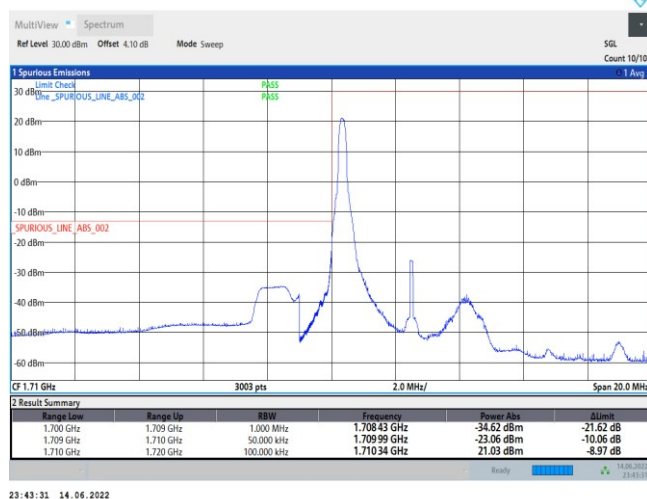
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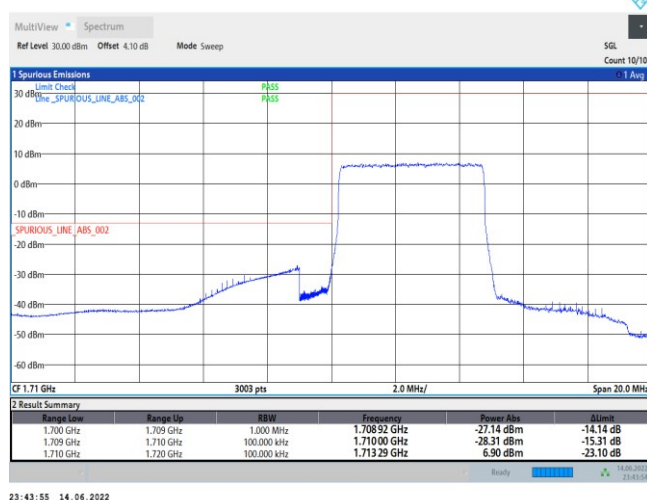
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Band4-5MHz-QPSK-19975-1RB#0



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



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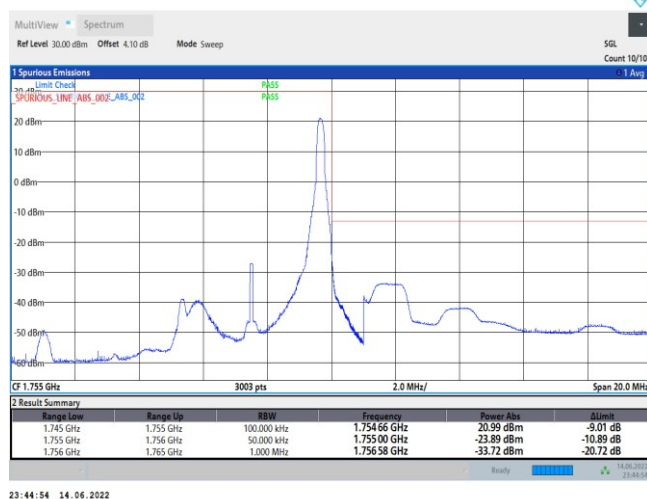
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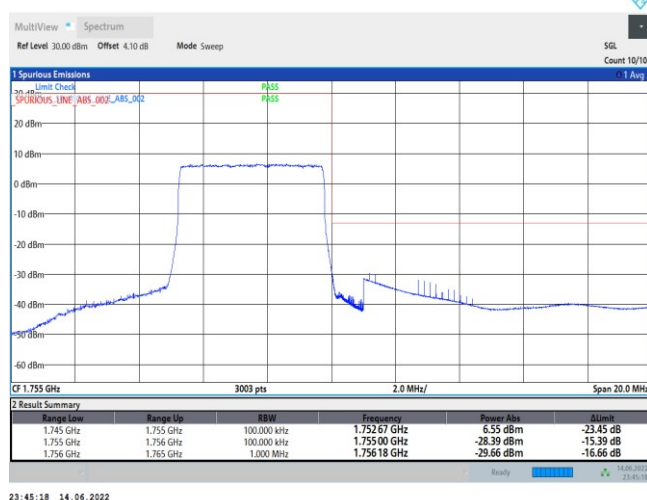
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Band4-5MHz-QPSK-20375-1RB#24



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



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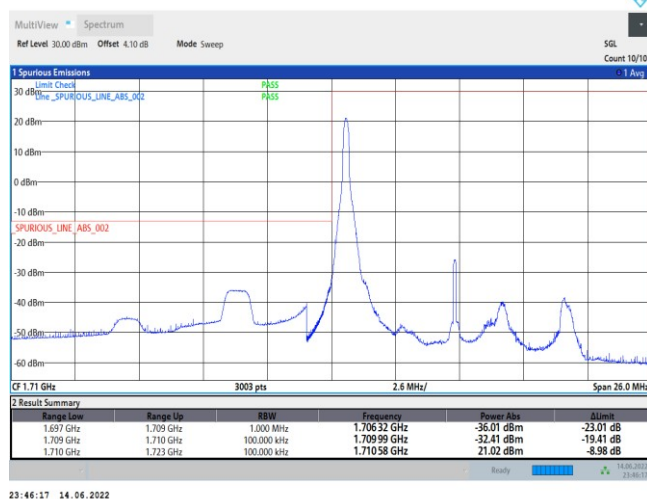
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Band4-10MHz-QPSK-20000-1RB#0



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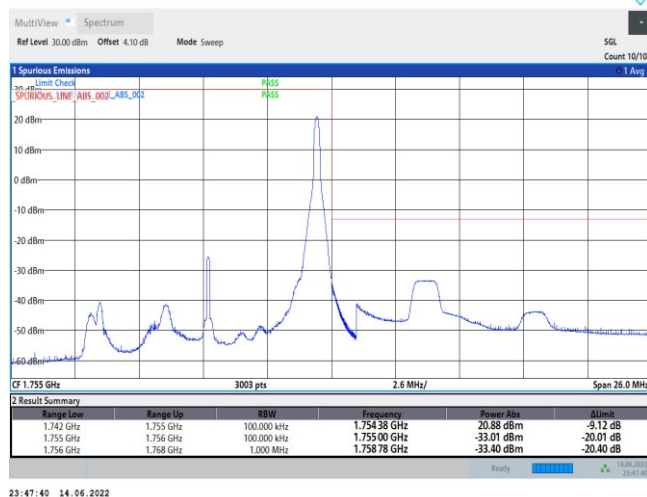
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Band4-10MHz-QPSK-20350-1RB#49



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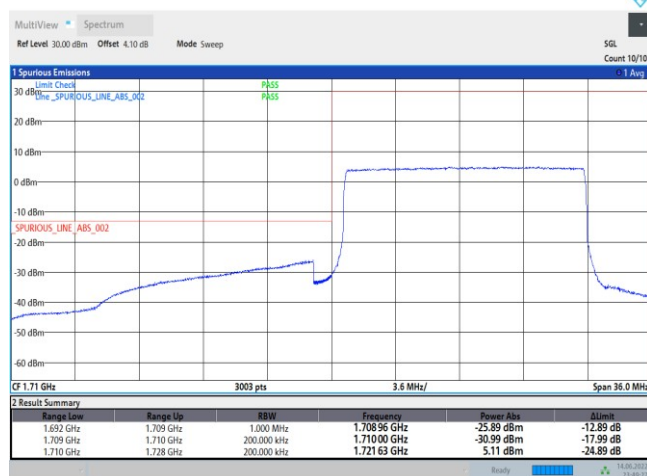
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Band4-15MHz-QPSK-20025-1RB#0



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



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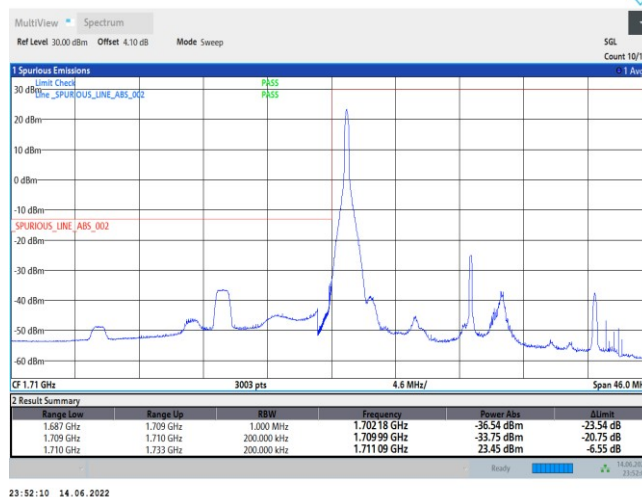
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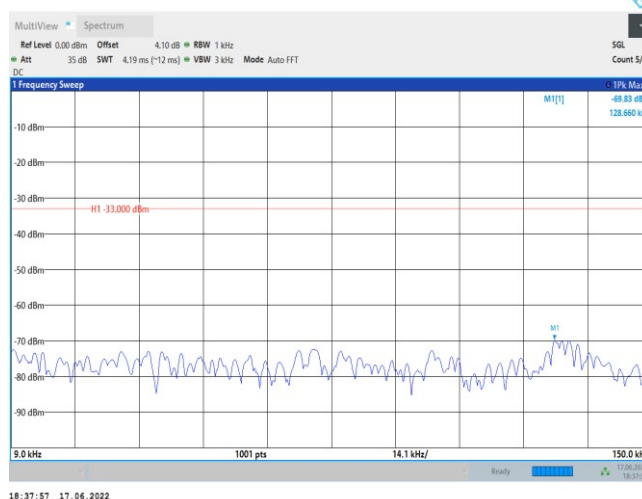
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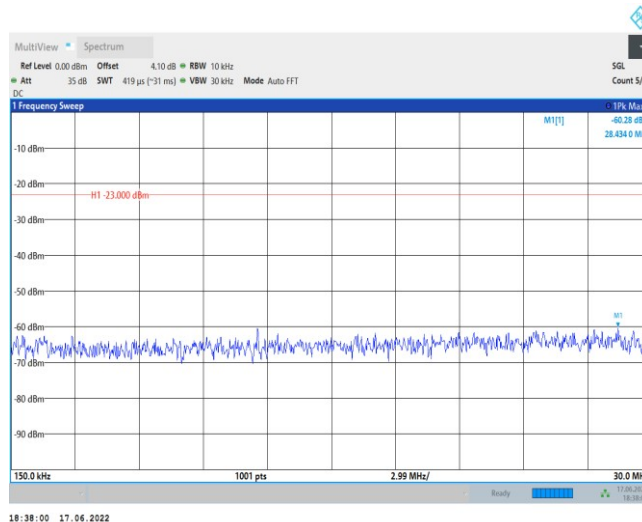
Conducted Spurious Emission

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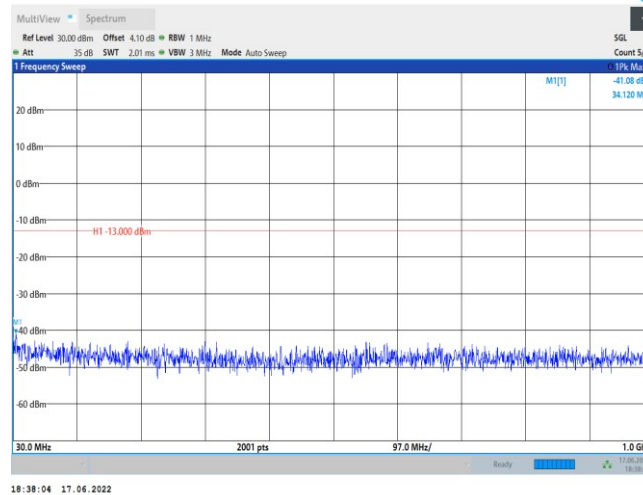
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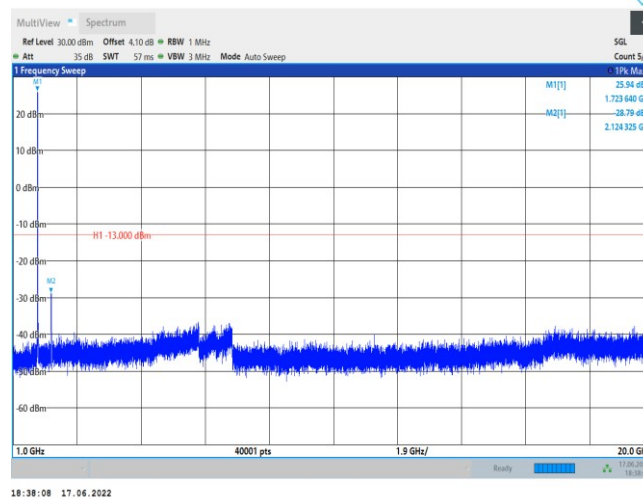
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



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



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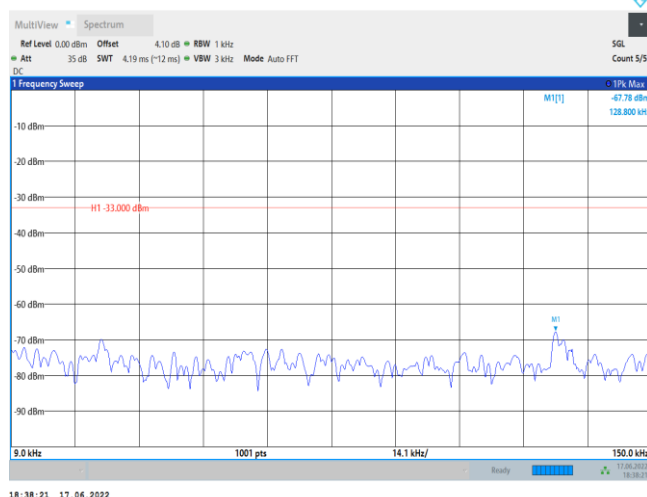
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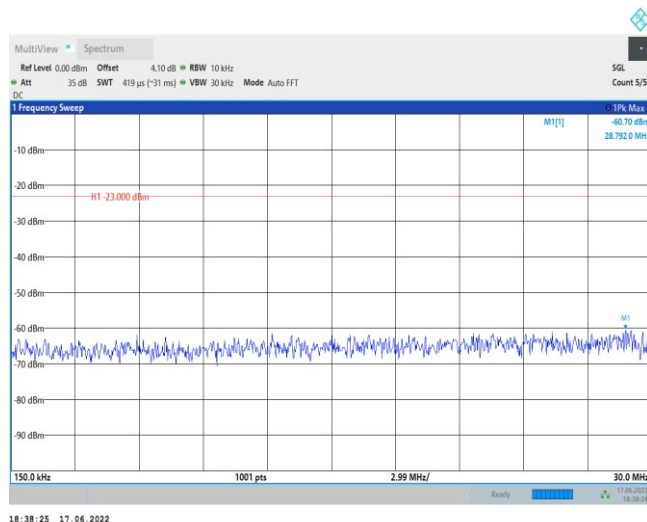
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



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



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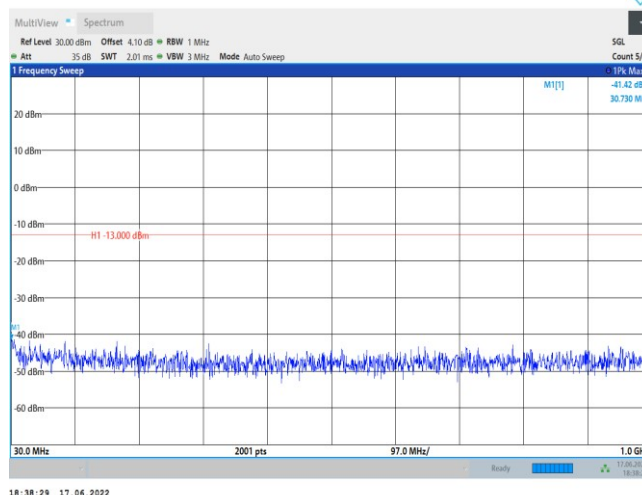
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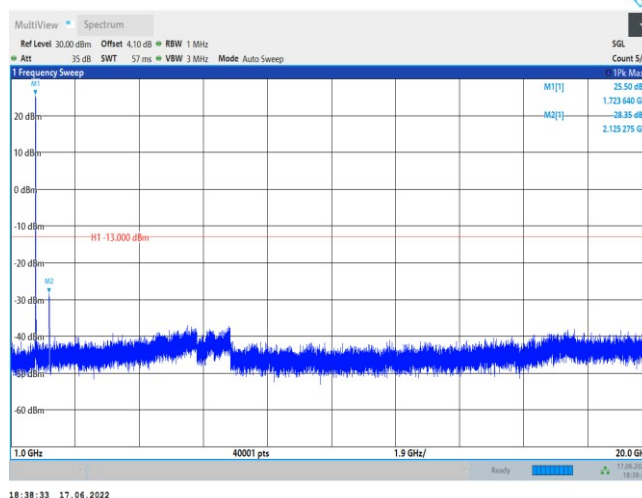
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



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



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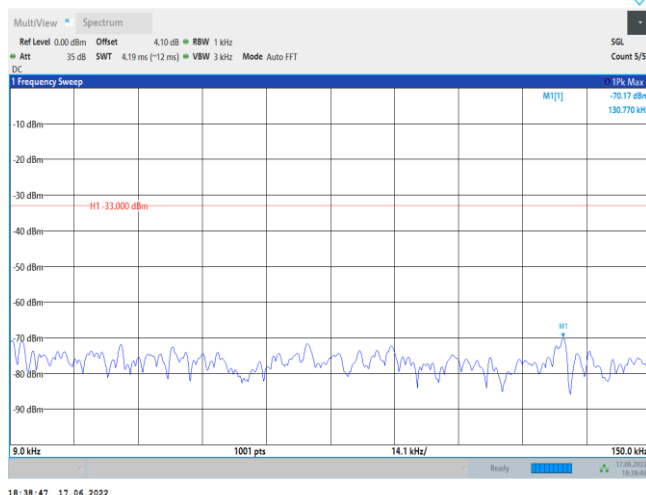
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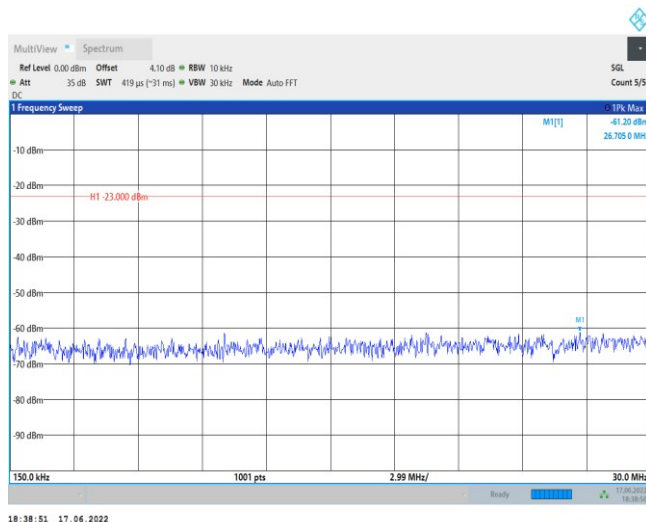
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



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



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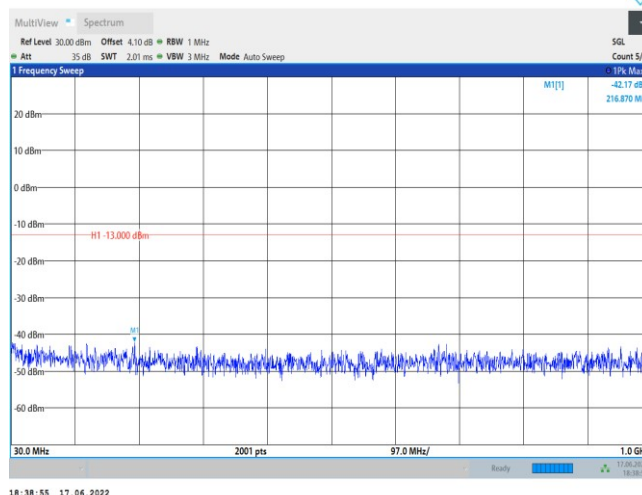
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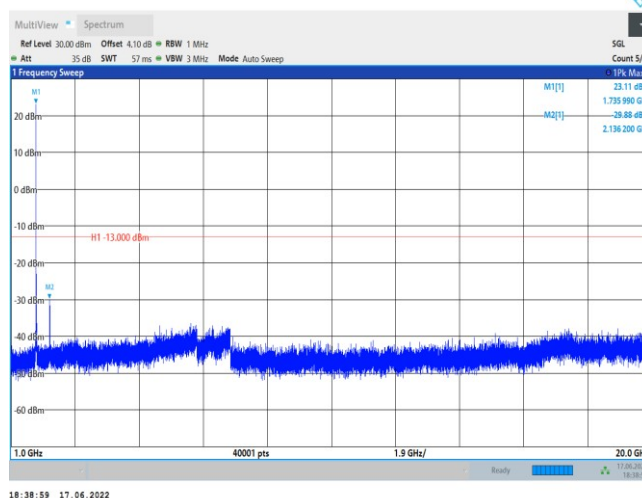
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



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

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	50.50	-112.09	-61.59	-13.00	48.59	194	360	Horizontal
2	5133.2700	49.38	-107.65	-58.27	-13.00	45.27	134	360	Horizontal
3	6844.3600	48.79	-103.51	-54.72	-13.00	41.72	167	358	Horizontal
4	8555.4500	44.40	-99.06	-54.66	-13.00	41.66	134	16	Horizontal
5	10266.5400	40.59	-95.66	-55.07	-13.00	42.07	264	360	Horizontal
6	11977.6300	37.10	-93.83	-56.73	-13.00	43.73	294	359	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	52.17	-112.09	-59.92	-13.00	46.92	261	330	Vertical
2	5133.2700	50.12	-107.65	-57.53	-13.00	44.53	184	360	Vertical
3	6844.3600	51.12	-103.51	-52.39	-13.00	39.39	164	353	Vertical
4	8555.4500	44.64	-99.06	-54.42	-13.00	41.42	137	360	Vertical
5	10266.5400	41.48	-95.66	-54.18	-13.00	41.18	281	358	Vertical
6	11977.6300	37.10	-93.83	-56.73	-13.00	43.73	276	330	Vertical



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Test Band = LTE Band 4_ TM1

Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	51.22	-112.06	-60.84	-13.00	47.84	231	344	Horizontal
2	5170.7700	48.99	-107.59	-58.60	-13.00	45.60	245	360	Horizontal
3	6894.3600	47.91	-103.41	-55.50	-13.00	42.50	294	360	Horizontal
4	8617.9500	45.28	-98.88	-53.60	-13.00	40.60	167	331	Horizontal
5	10341.5400	41.36	-95.47	-54.11	-13.00	41.11	137	4	Horizontal
6	12065.1300	37.44	-93.68	-56.24	-13.00	43.24	164	167	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	50.41	-112.06	-61.65	-13.00	48.65	134	304	Vertical
2	5170.7700	49.64	-107.59	-57.95	-13.00	44.95	184	304	Vertical
3	6894.3600	49.67	-103.41	-53.74	-13.00	40.74	264	44	Vertical
4	8617.9500	46.97	-98.88	-51.91	-13.00	38.91	271	135	Vertical
5	10341.5400	42.15	-95.47	-53.32	-13.00	40.32	237	258	Vertical
6	12065.1300	38.54	-93.68	-55.14	-13.00	42.14	162	318	Vertical



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Test Band = LTE Band 4_ TM1

Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	50.24	-112.03	-61.79	-13.00	48.79	164	276	Horizontal
2	5208.2700	48.52	-107.54	-59.02	-13.00	46.02	234	29	Horizontal
3	6944.3600	47.70	-103.10	-55.40	-13.00	42.40	294	60	Horizontal
4	8680.4500	45.14	-99.00	-53.86	-13.00	40.86	237	245	Horizontal
5	10416.5400	39.03	-95.36	-56.33	-13.00	43.33	163	183	Horizontal
6	12152.6300	37.41	-93.59	-56.18	-13.00	43.18	192	354	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	51.10	-112.03	-60.93	-13.00	47.93	137	302	Vertical
2	5208.2700	51.27	-107.54	-56.27	-13.00	43.27	192	360	Vertical
3	6944.3600	48.93	-103.10	-54.17	-13.00	41.17	167	152	Vertical
4	8680.4500	44.93	-99.00	-54.07	-13.00	41.07	234	76	Vertical
5	10416.5400	41.95	-95.36	-53.41	-13.00	40.41	267	226	Vertical
6	12152.6300	37.60	-93.59	-55.99	-13.00	42.99	291	360	Vertical

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading Level(dBμV) + Factor(dB):

Factor = AF(dB/m) + Cable Factor(dB) - Preamplifier gain(dB)

AF = Antenna Factor(dB/m)

Margin = Limit(dBm) – Level(dBm)



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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	6.30	0.003636	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-2.90	-0.001674	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	4.20	0.002424	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	1.30	0.000750	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	7.30	0.004214	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-8.80	-0.005079	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-6.30	-0.003636	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-8.90	-0.005137	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	6.10	0.003521	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-6.60	-0.003810	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-6.70	-0.003867	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-6.70	-0.003867	PASS

The End



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