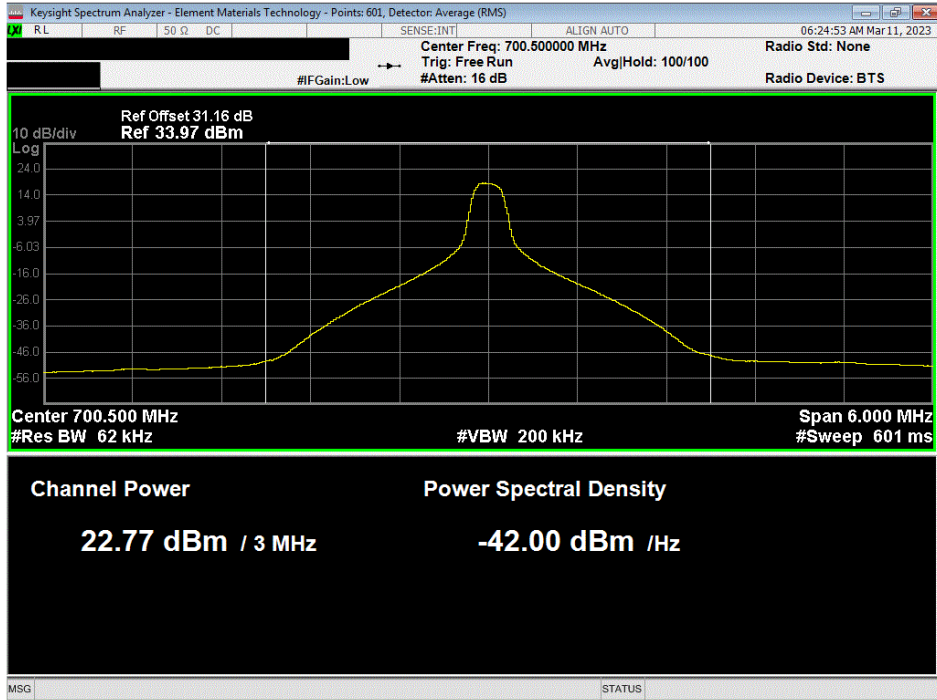


CONDUCTED OUTPUT POWER

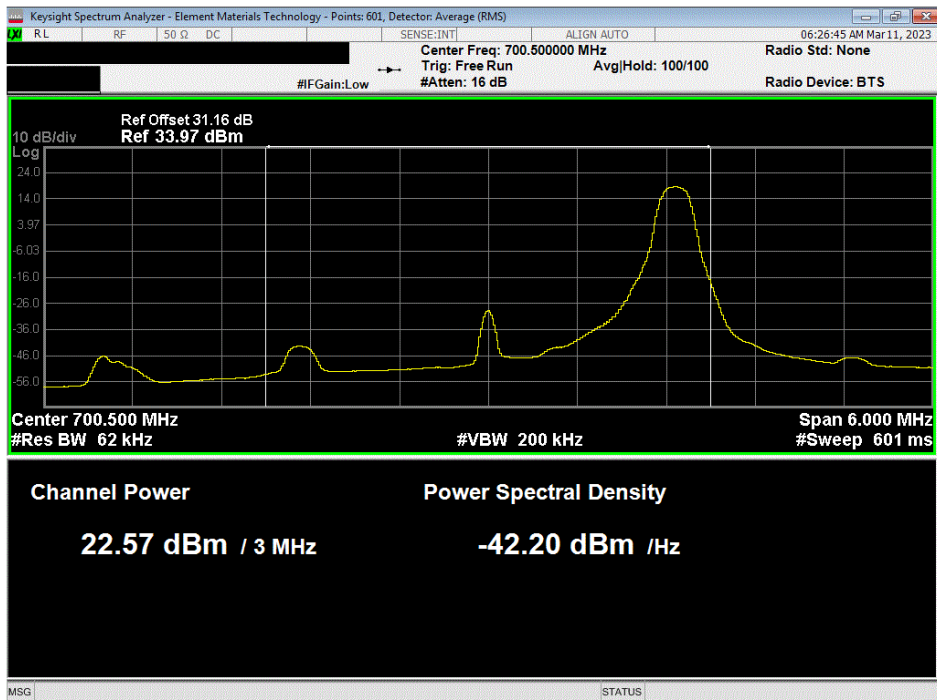


XMM 2022.12.28.0

LTE, QPSK, Band 12, 3 MHz Channel Bandwidth, 1RB / 7 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.77	-4.09	N/A	16.53	0.0450	3	Pass



LTE, QPSK, Band 12, 3 MHz Channel Bandwidth, 1RB / 14 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.57	-4.09	N/A	16.33	0.0430	3	Pass

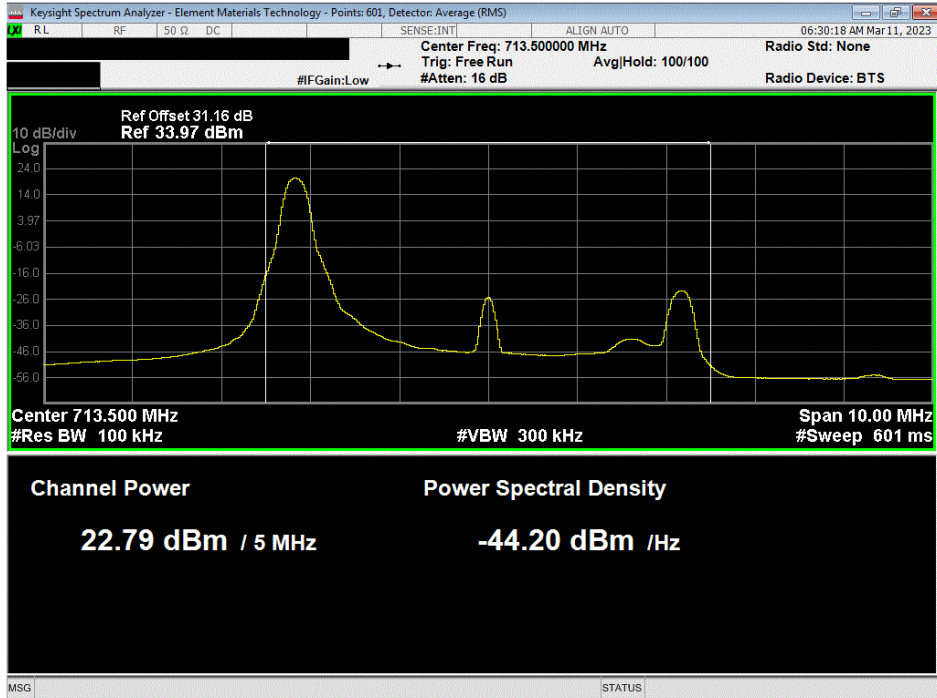


CONDUCTED OUTPUT POWER

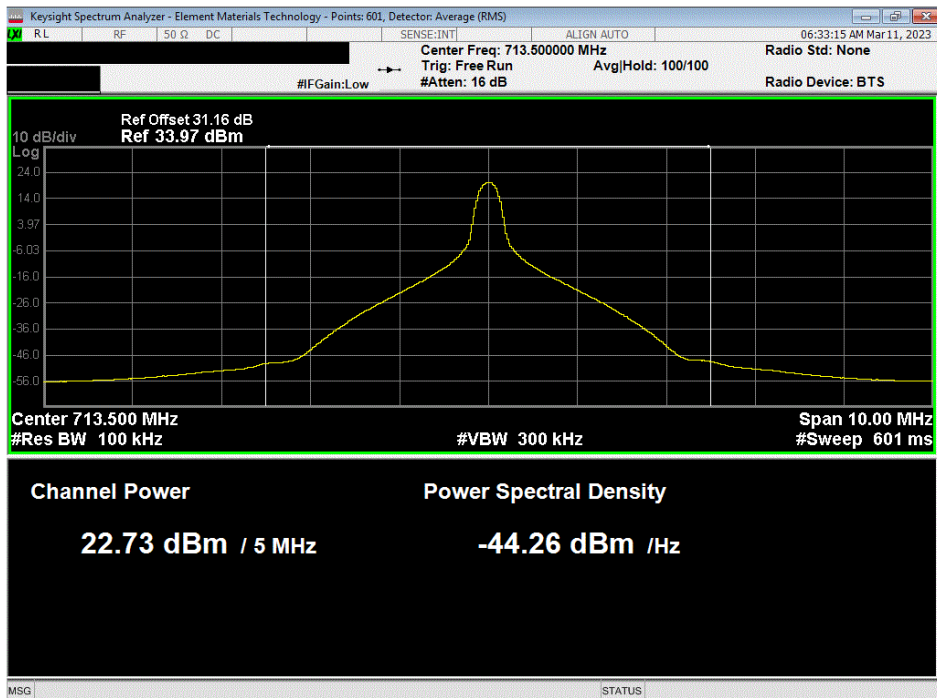


XMM 2022.12.28.0

LTE, QPSK, Band 12, 5 MHz Channel Bandwidth, 1RB / 0 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.79	-4.09	N/A	16.55	0.0452	3	Pass



LTE, QPSK, Band 12, 5 MHz Channel Bandwidth, 1RB / 12 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.73	-4.09	N/A	16.49	0.0446	3	Pass

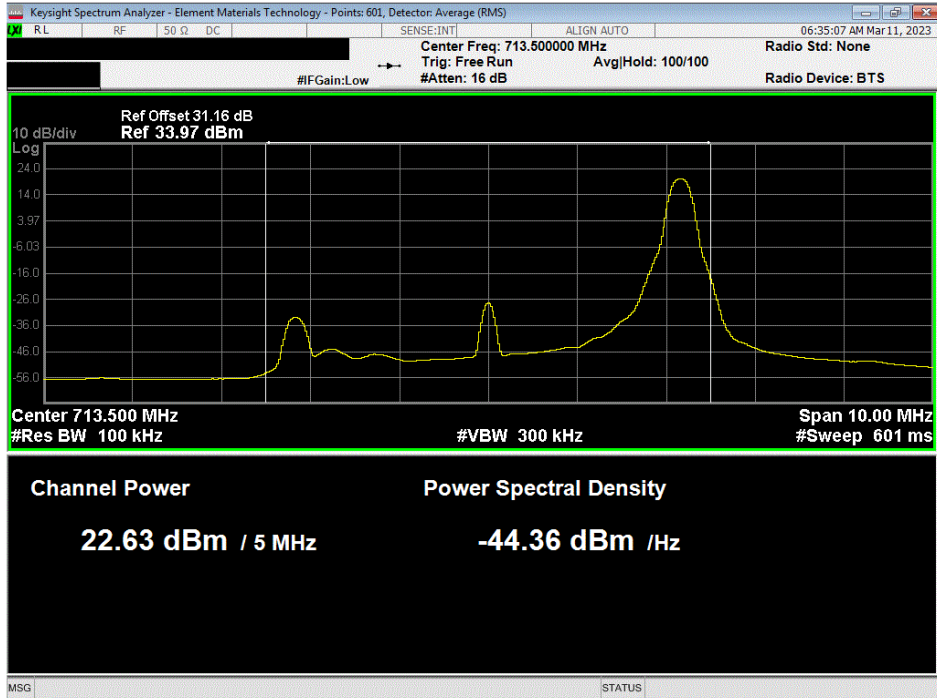


CONDUCTED OUTPUT POWER

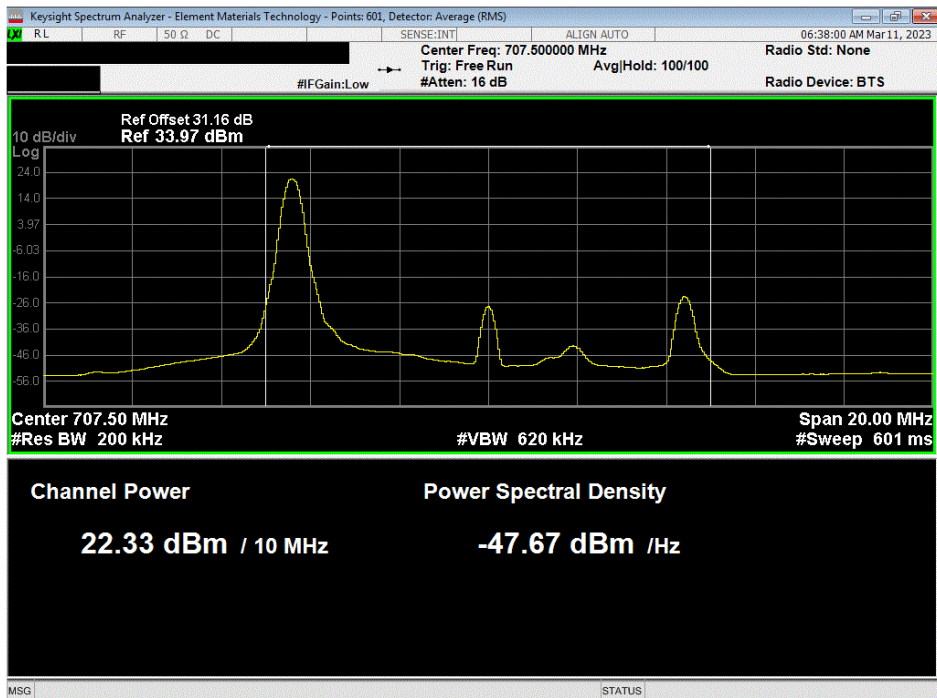


XMM 2022.12.28.0

LTE, QPSK, Band 12, 5 MHz Channel Bandwidth, 1RB / 24 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.63	-4.09	N/A	16.39	0.0436	3	Pass



LTE, QPSK, Band 12, 10 MHz Channel Bandwidth, 1RB / 0 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.33	-4.09	N/A	16.09	0.0406	3	Pass

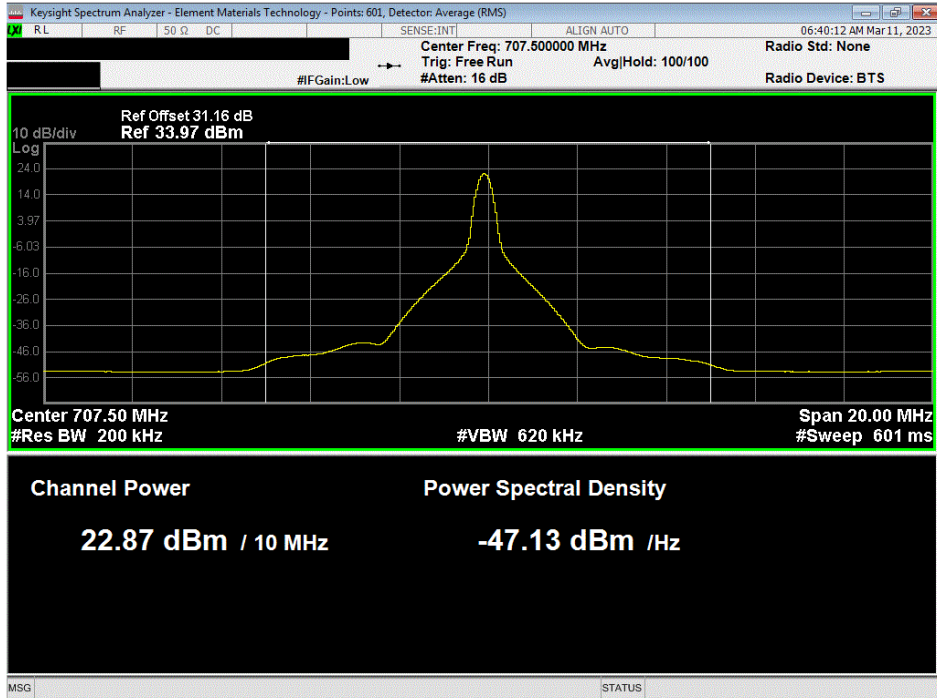


CONDUCTED OUTPUT POWER

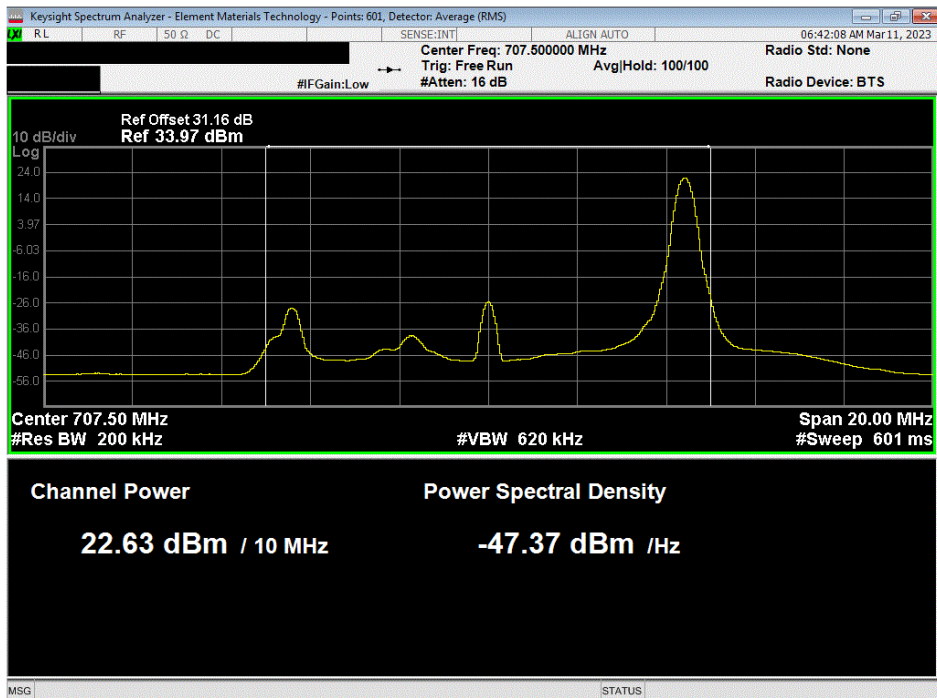


XMM 2022.12.28.0

LTE, QPSK, Band 12, 10 MHz Channel Bandwidth, 1RB / 24 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.87	-4.09	N/A	16.63	0.0460	3	Pass



LTE, QPSK, Band 12, 10 MHz Channel Bandwidth, 1RB / 49 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.63	-4.09	N/A	16.39	0.0436	3	Pass

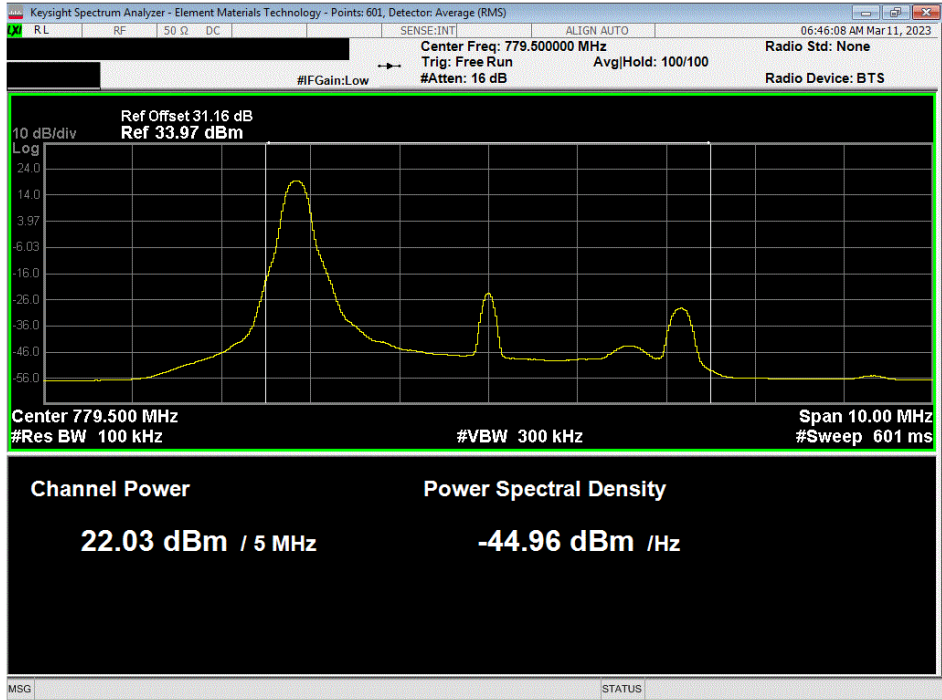


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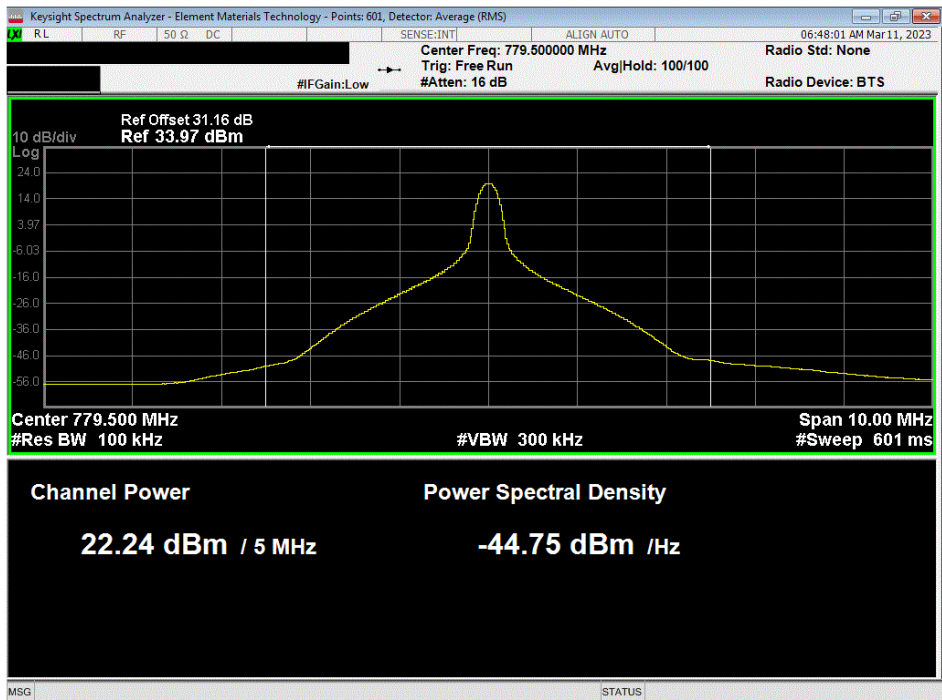


XMM 2022.12.28.0

LTE, QPSK, Band 13, 5 MHz Channel Bandwidth, 1RB / 0 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.03	-2.75	N/A	17.13	0.0516	3	Pass



LTE, QPSK, Band 13, 5 MHz Channel Bandwidth, 1RB / 12 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.24	-2.75	N/A	17.34	0.0542	3	Pass

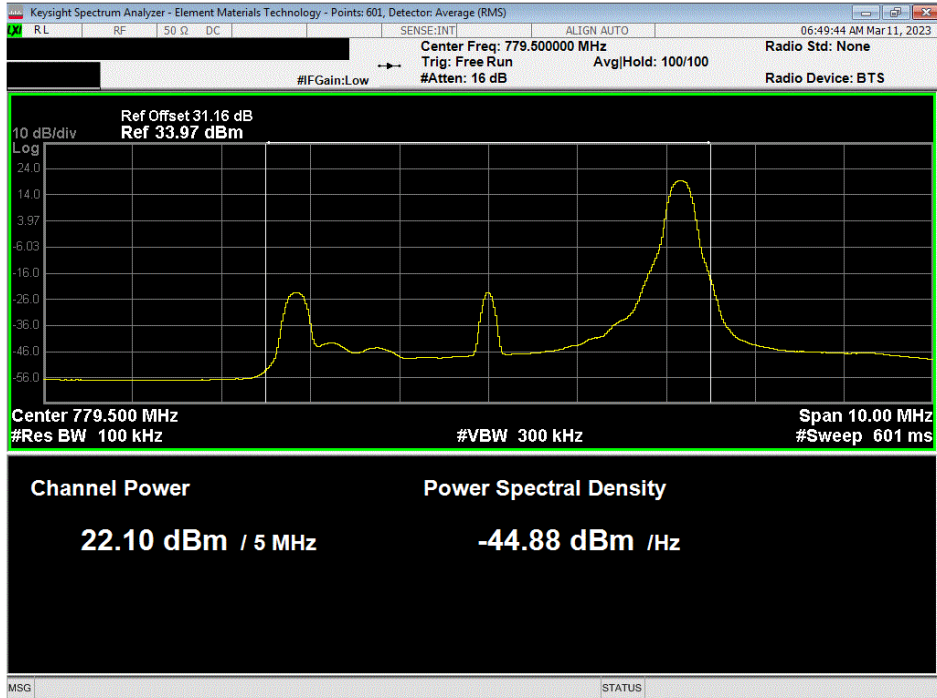


CONDUCTED OUTPUT POWER

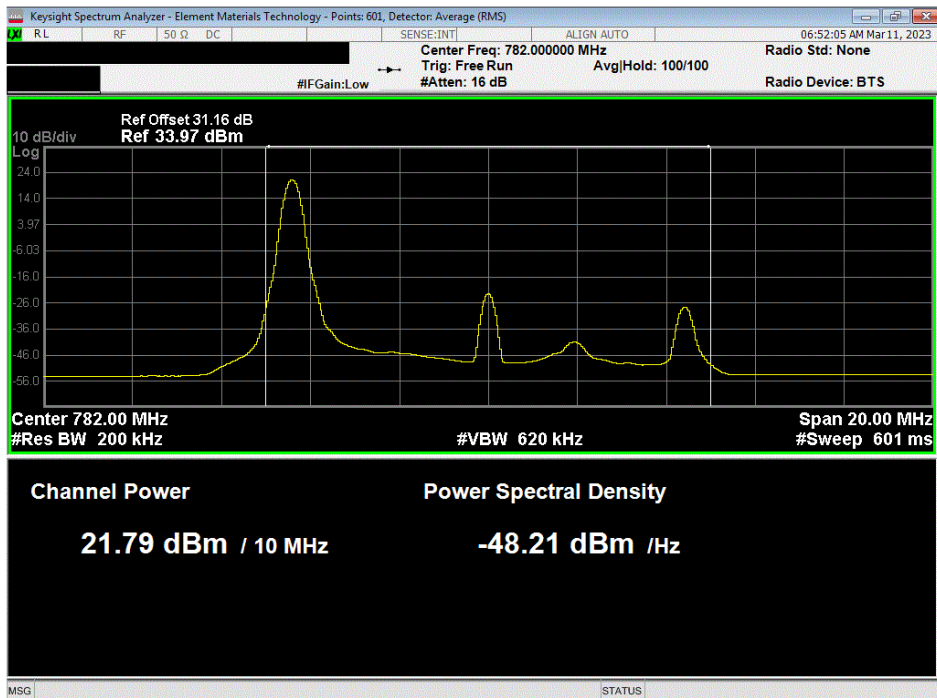


XMM 2022.12.28.0

LTE, QPSK, Band 13, 5 MHz Channel Bandwidth, 1RB / 24 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.1	-2.75	N/A	17.2	0.0525	3	Pass



LTE, QPSK, Band 13, 10 MHz Channel Bandwidth, 1RB / 0 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
21.79	-2.75	N/A	16.89	0.0489	3	Pass

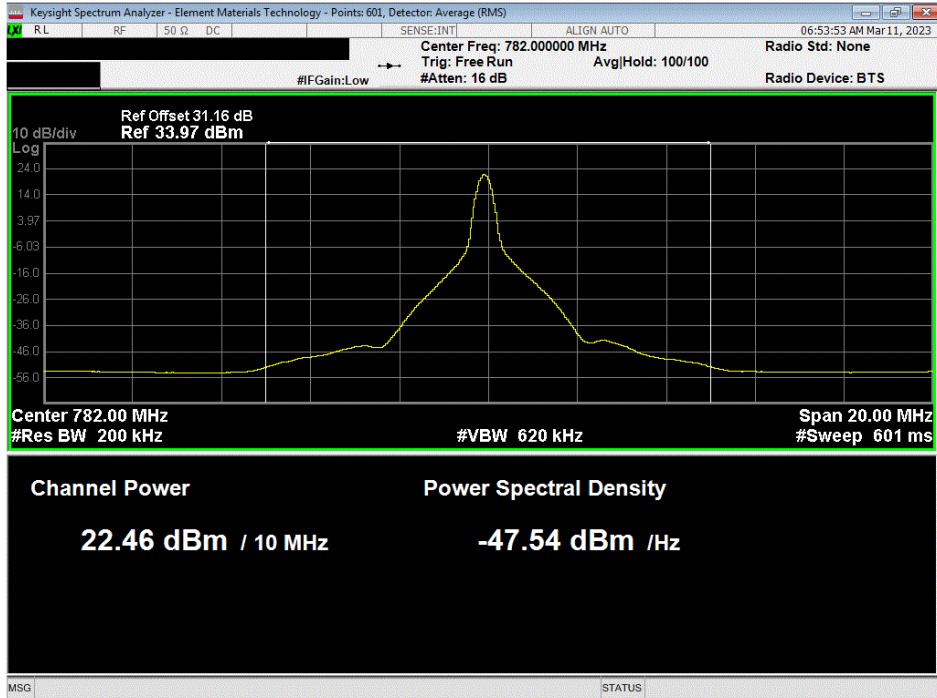


CONDUCTED OUTPUT POWER

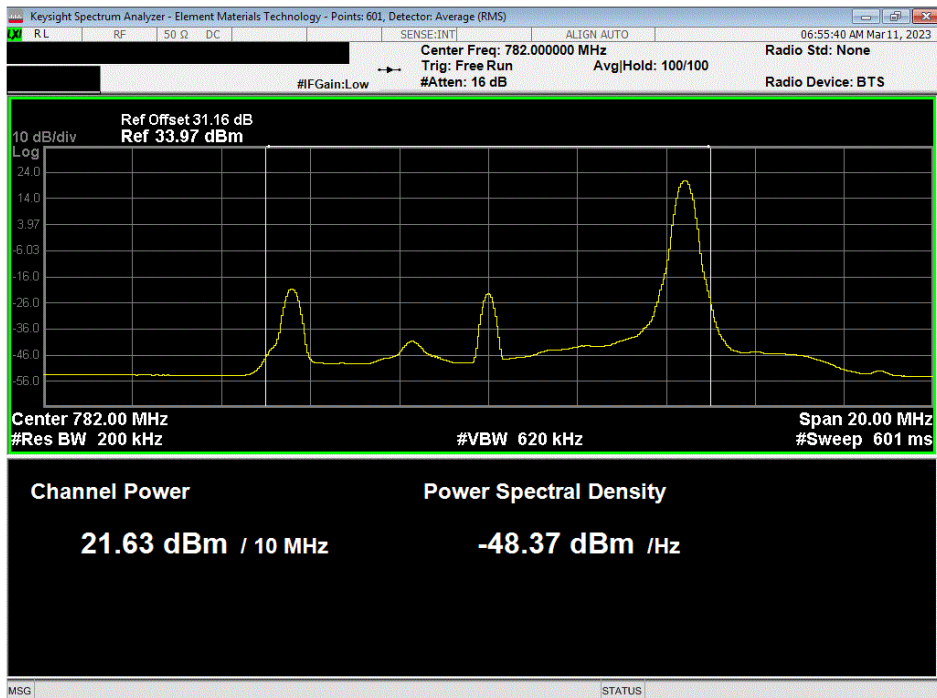


XMM 2022.12.28.0

LTE, QPSK, Band 13, 10 MHz Channel Bandwidth, 1RB / 24 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.46	-2.75	N/A	17.56	0.0570	3	Pass



LTE, QPSK, Band 13, 10 MHz Channel Bandwidth, 1RB / 49 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
21.63	-2.75	N/A	16.73	0.0471	3	Pass

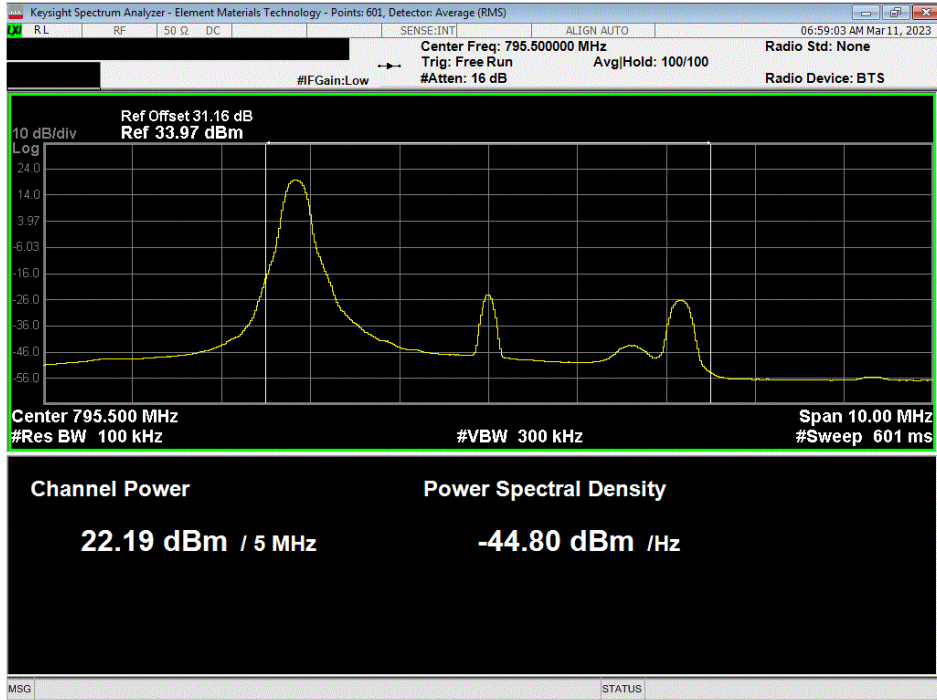


CONDUCTED OUTPUT POWER

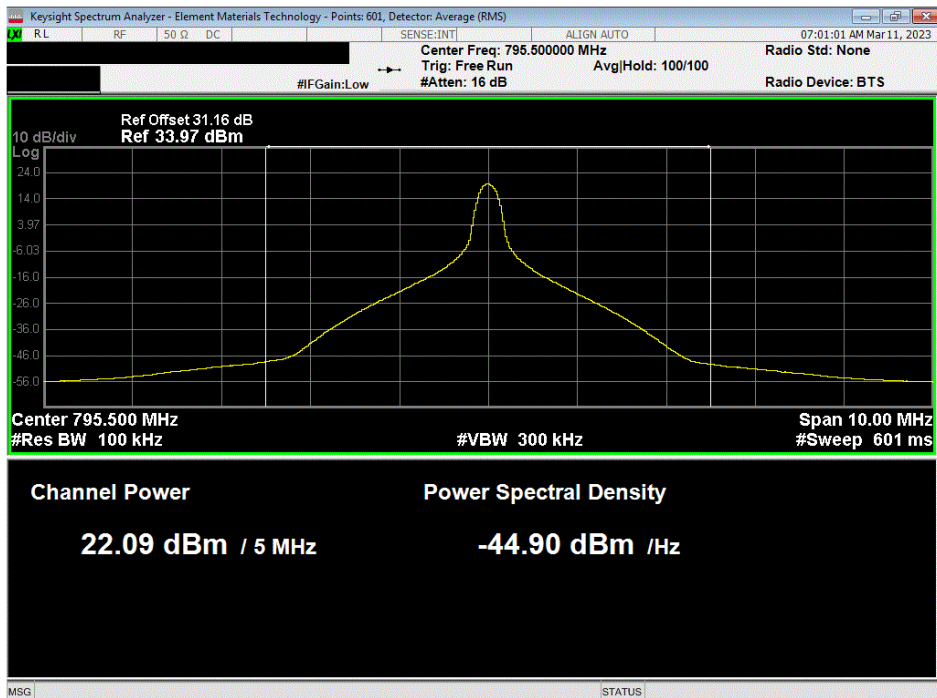


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LTE, QPSK, Band 14, 5 MHz Channel Bandwidth, 1RB / 0 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.19	-2.75	19.44	N/A	0.0879	2	Pass



LTE, QPSK, Band 14, 5 MHz Channel Bandwidth, 1RB / 12 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.09	-2.75	19.34	N/A	0.0859	2	Pass

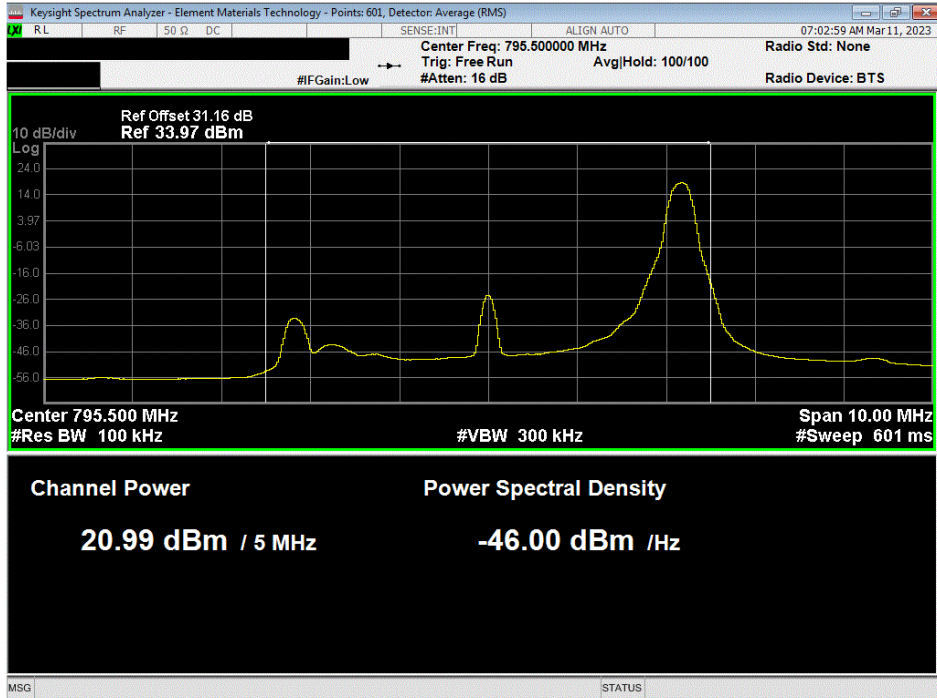


CONDUCTED OUTPUT POWER

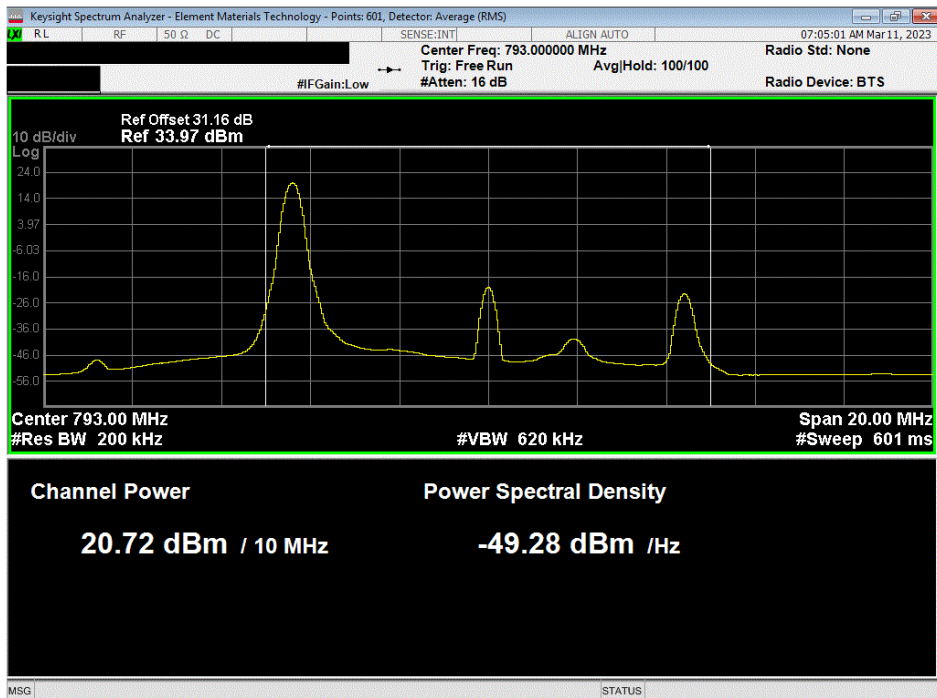


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LTE, QPSK, Band 14, 5 MHz Channel Bandwidth, 1RB / 24 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
20.99	-2.75	18.24	N/A	0.0667	2	Pass



LTE, QPSK, Band 14, 10 MHz Channel Bandwidth, 1RB / 0 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
20.72	-2.75	17.97	N/A	0.0627	2	Pass

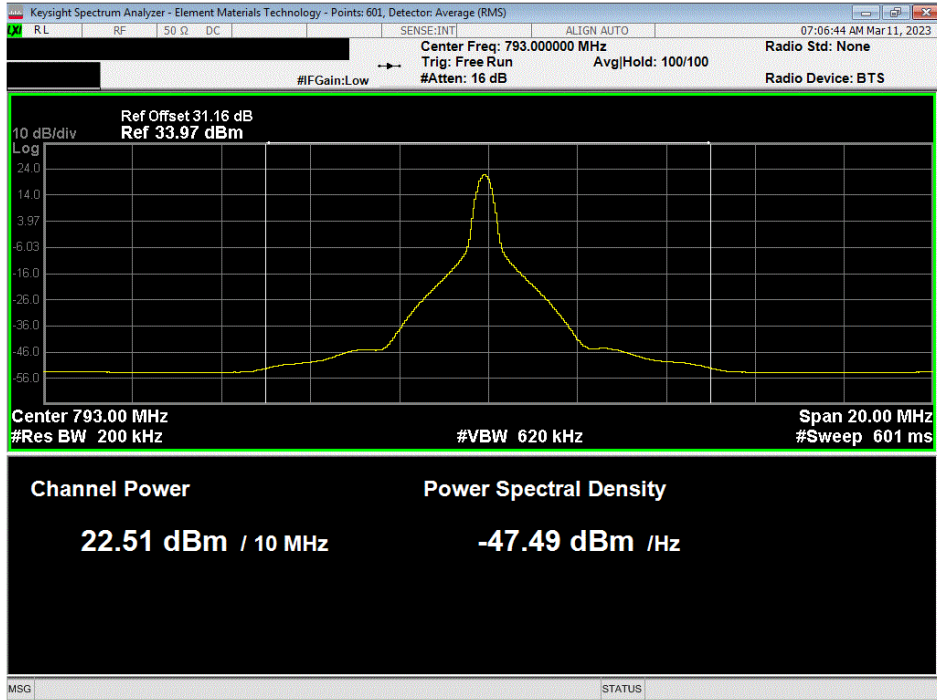


CONDUCTED OUTPUT POWER

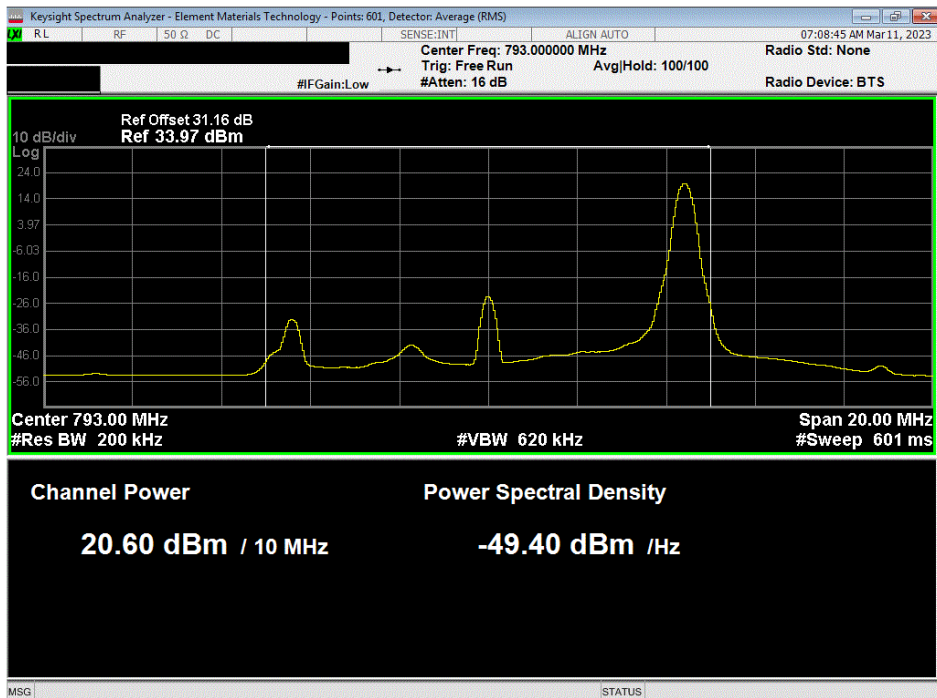


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LTE, QPSK, Band 14, 10 MHz Channel Bandwidth, 1RB / 24 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.51	-2.75	19.76	N/A	0.0946	2	Pass



LTE, QPSK, Band 14, 10 MHz Channel Bandwidth, 1RB / 49 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
20.60	-2.75	17.85	N/A	0.0610	2	Pass

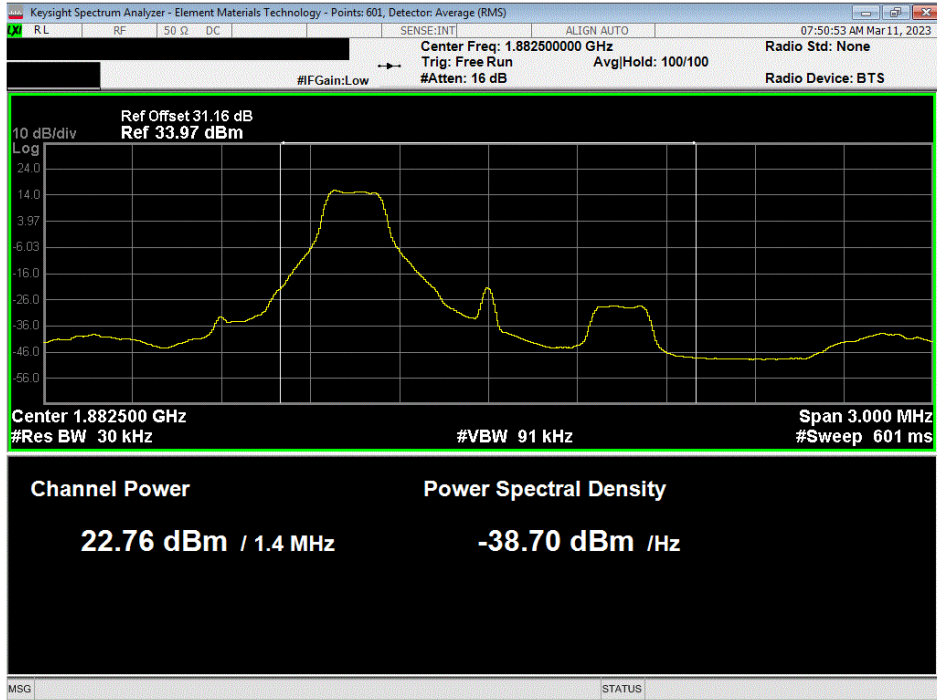


CONDUCTED OUTPUT POWER

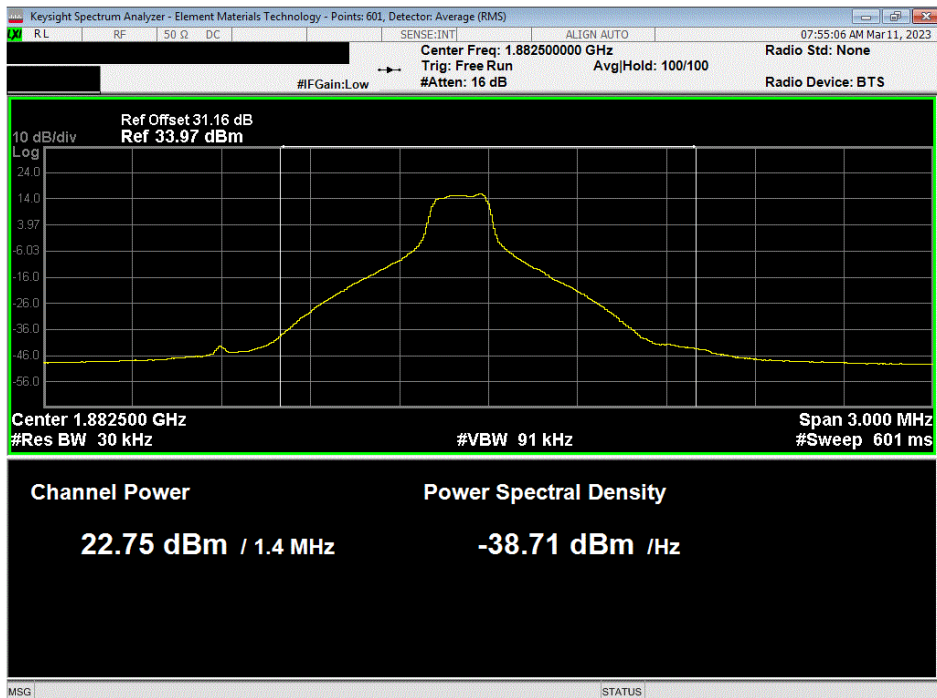


XMM 2022.12.28.0

LTE, QPSK, Band 25, 1.4 MHz Channel Bandwidth, 1RB / 0 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.76	0.10	22.86	N/A	0.1932	2	Pass



LTE, QPSK, Band 25, 1.4 MHz Channel Bandwidth, 1RB / 2 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.75	0.10	22.85	N/A	0.1928	2	Pass

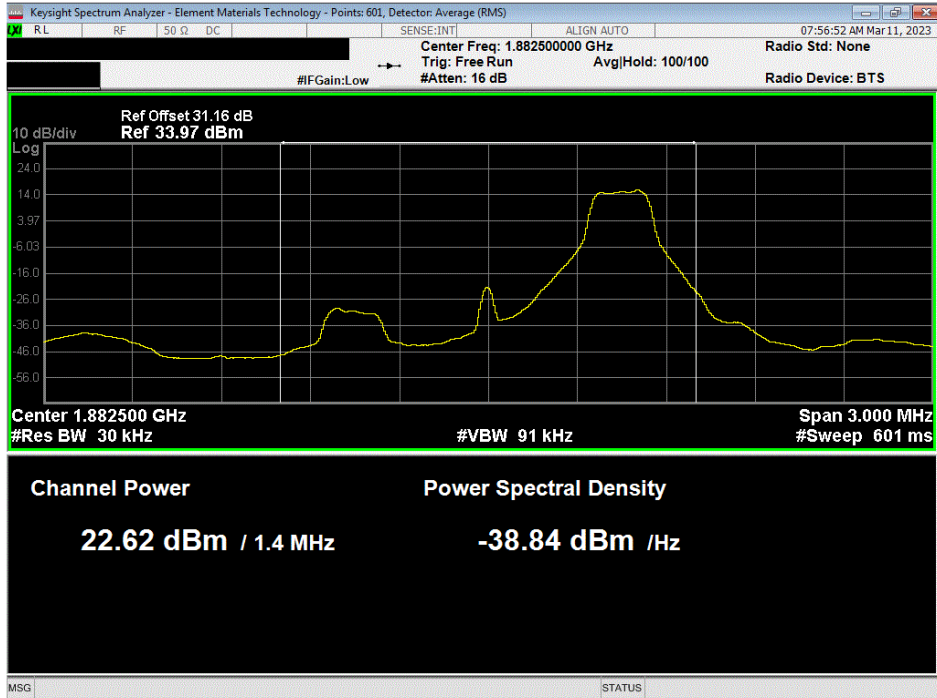


CONDUCTED OUTPUT POWER

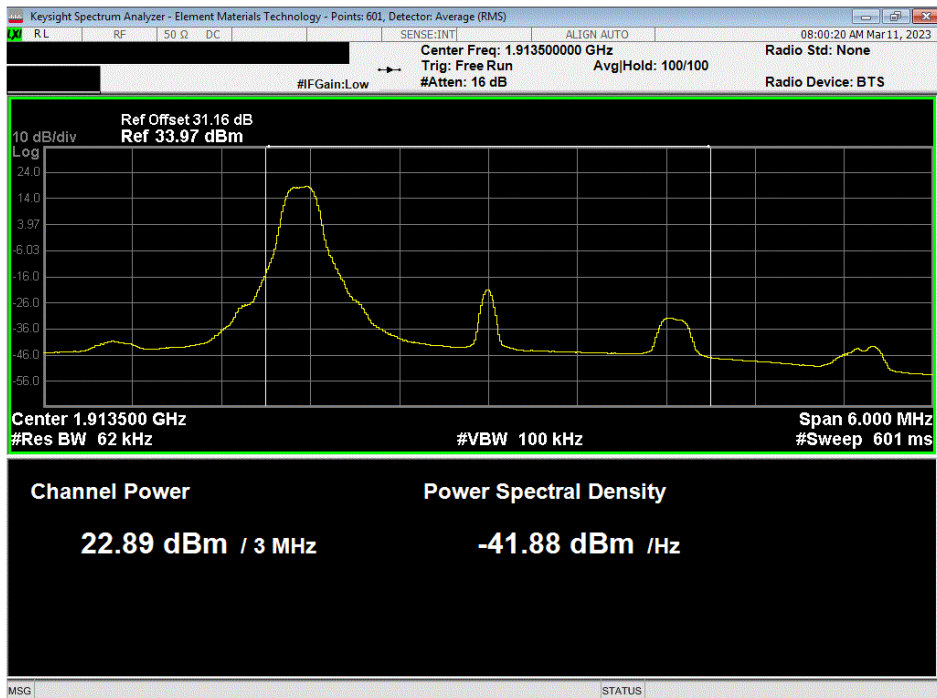


XMM 2022.12.28.0

LTE, QPSK, Band 25, 1.4 MHz Channel Bandwidth, 1RB / 5 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.62	0.10	22.72	N/A	0.1871	2	Pass



LTE, QPSK, Band 25, 3 MHz Channel Bandwidth, 1RB / 0 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.89	0.10	22.99	N/A	0.1991	2	Pass

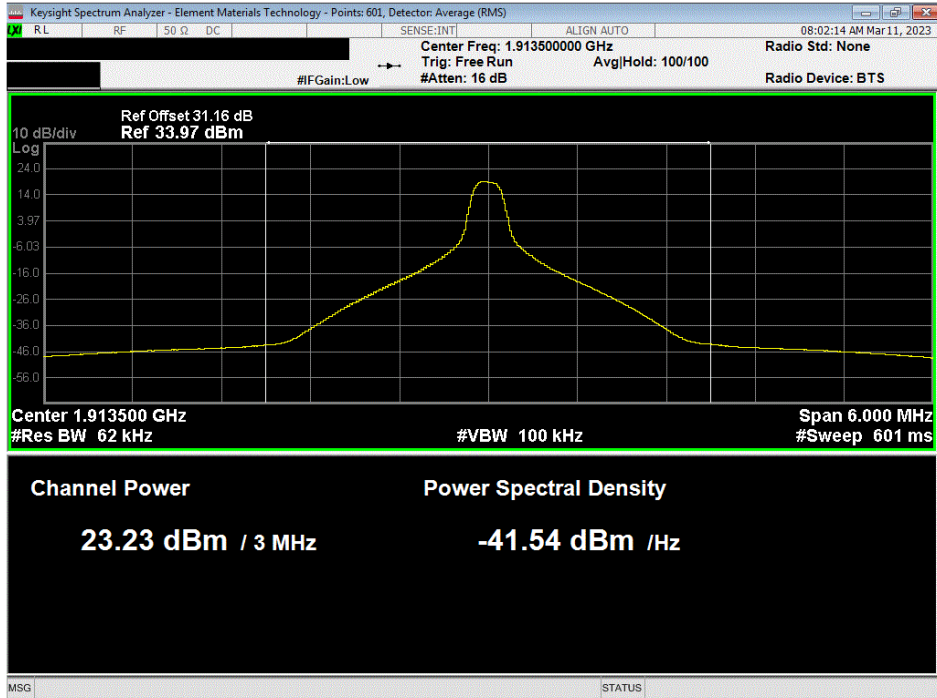


CONDUCTED OUTPUT POWER

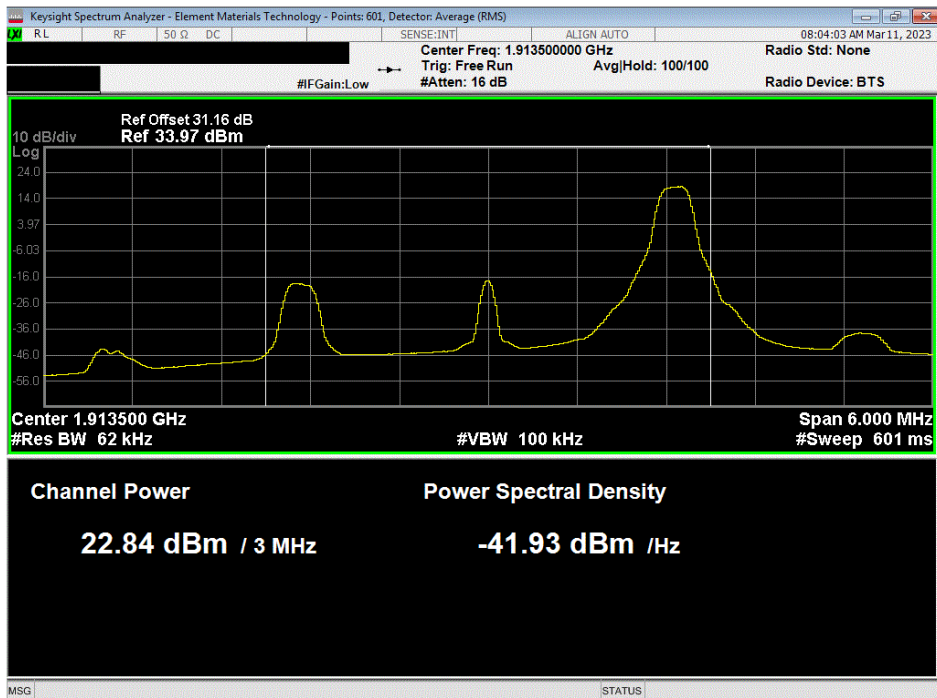


XMM 2022.12.28.0

LTE, QPSK, Band 25, 3 MHz Channel Bandwidth, 1RB / 7 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
23.23	0.10	23.33	N/A	0.2153	2	Pass



LTE, QPSK, Band 25, 3 MHz Channel Bandwidth, 1RB / 14 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.84	0.10	22.94	N/A	0.1968	2	Pass

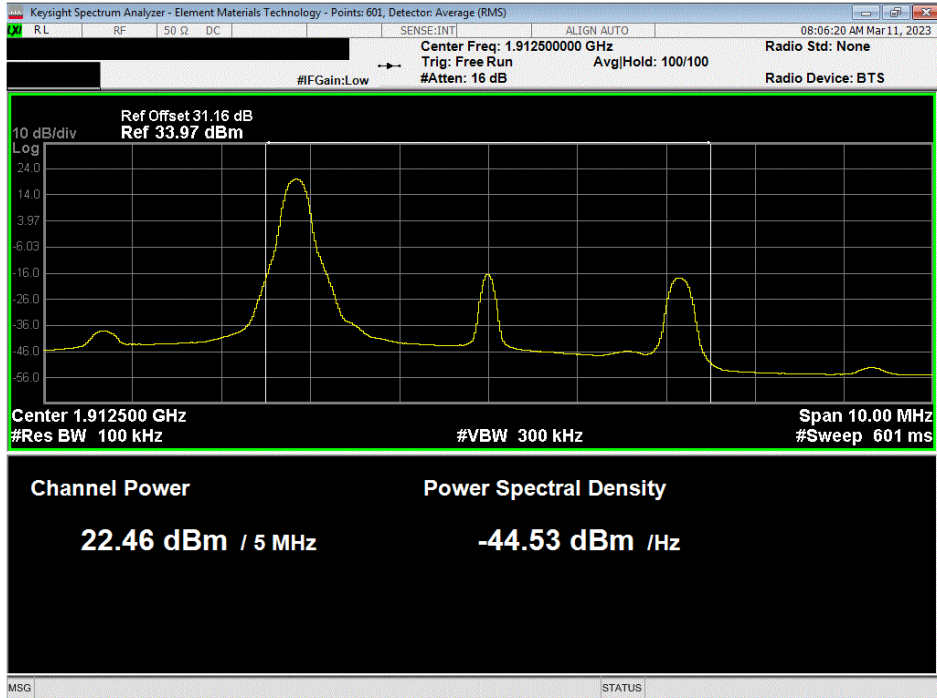


CONDUCTED OUTPUT POWER

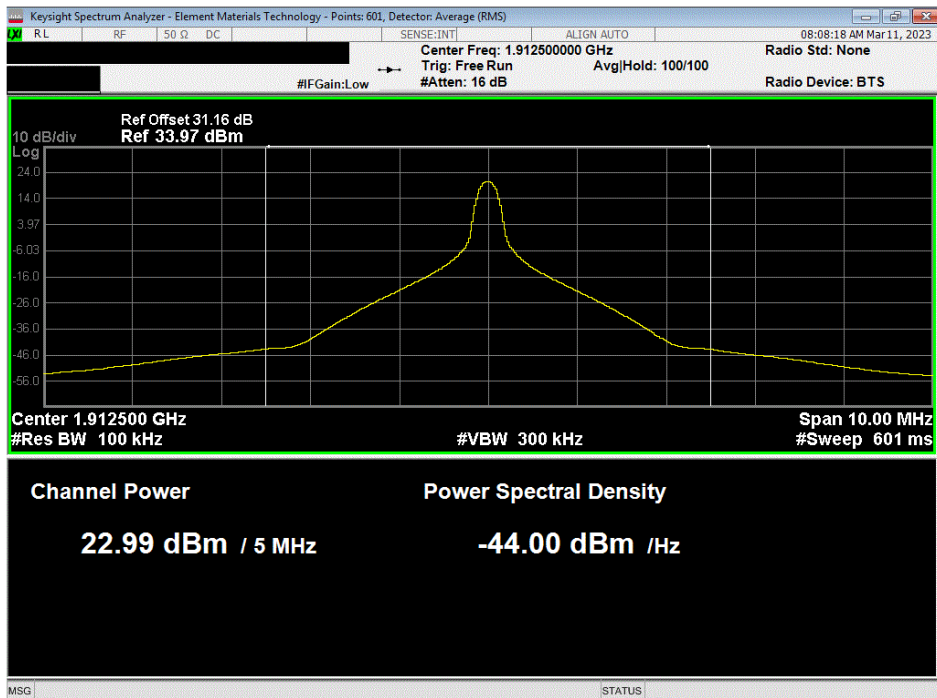


XMM 2022.12.28.0

LTE, QPSK, Band 25, 5 MHz Channel Bandwidth, 1RB / 0 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.46	0.10	22.56	N/A	0.1803	2	Pass



LTE, QPSK, Band 25, 5 MHz Channel Bandwidth, 1RB / 12 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.99	0.10	23.09	N/A	0.2037	2	Pass

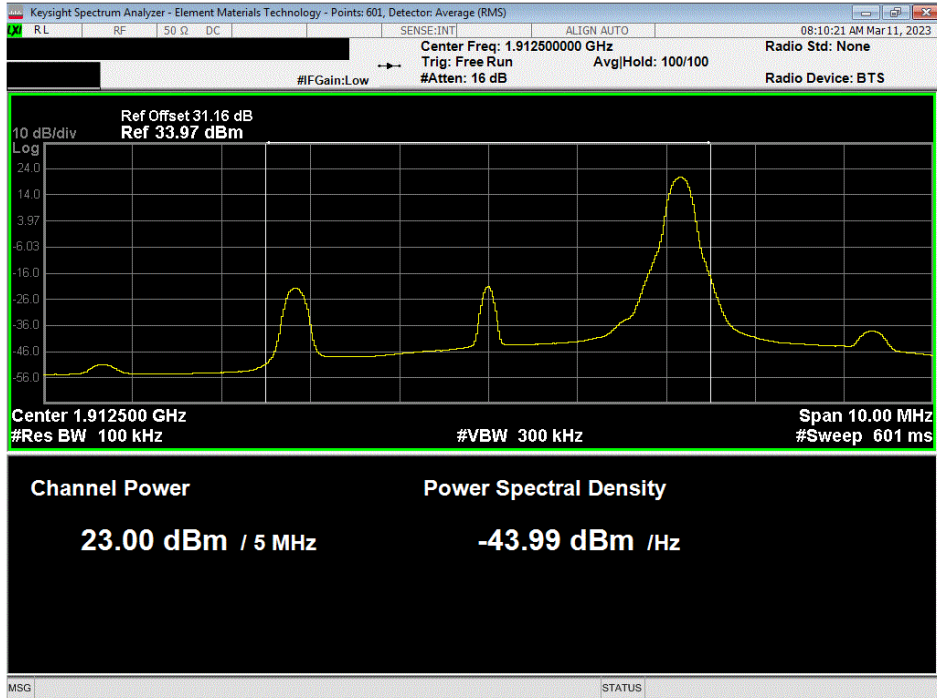


CONDUCTED OUTPUT POWER

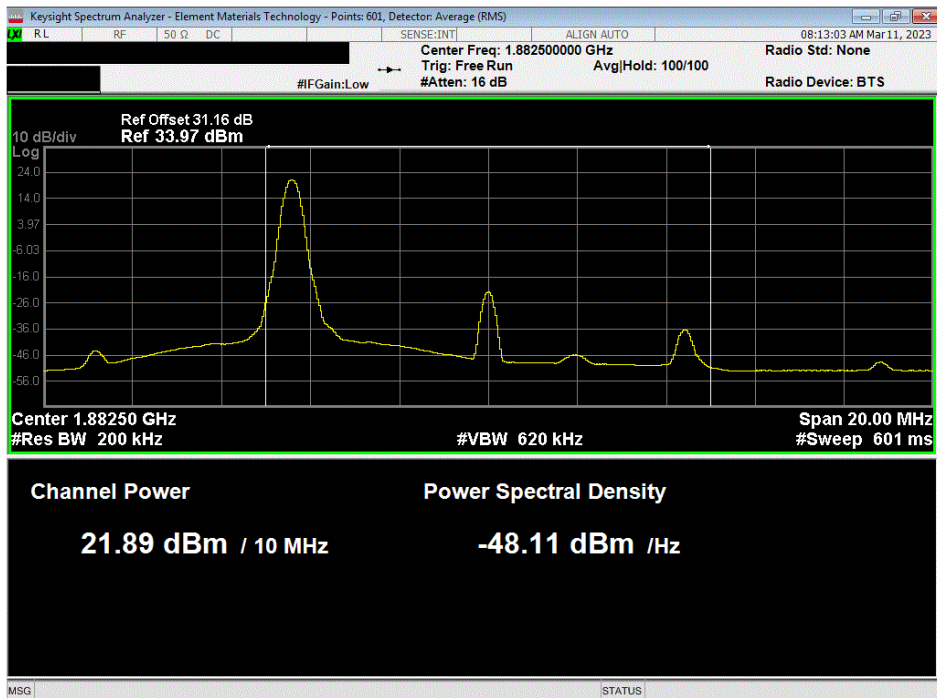


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LTE, QPSK, Band 25, 5 MHz Channel Bandwidth, 1RB / 24 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
23.00	0.10	23.1	N/A	0.2042	2	Pass



LTE, QPSK, Band 25, 10 MHz Channel Bandwidth, 1RB / 0 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
21.89	0.10	21.99	N/A	0.1581	2	Pass

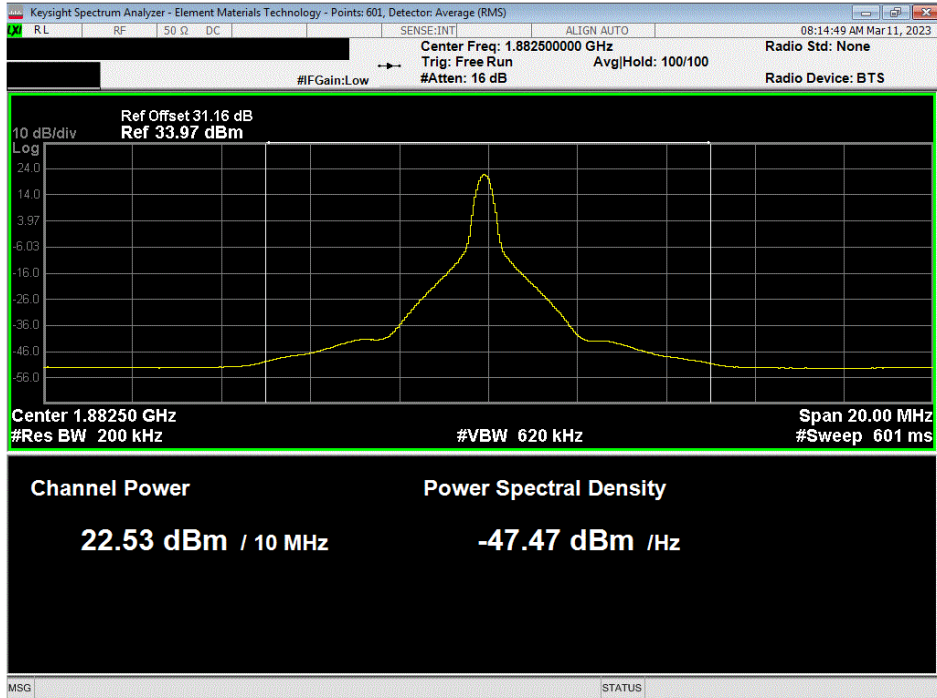


CONDUCTED OUTPUT POWER

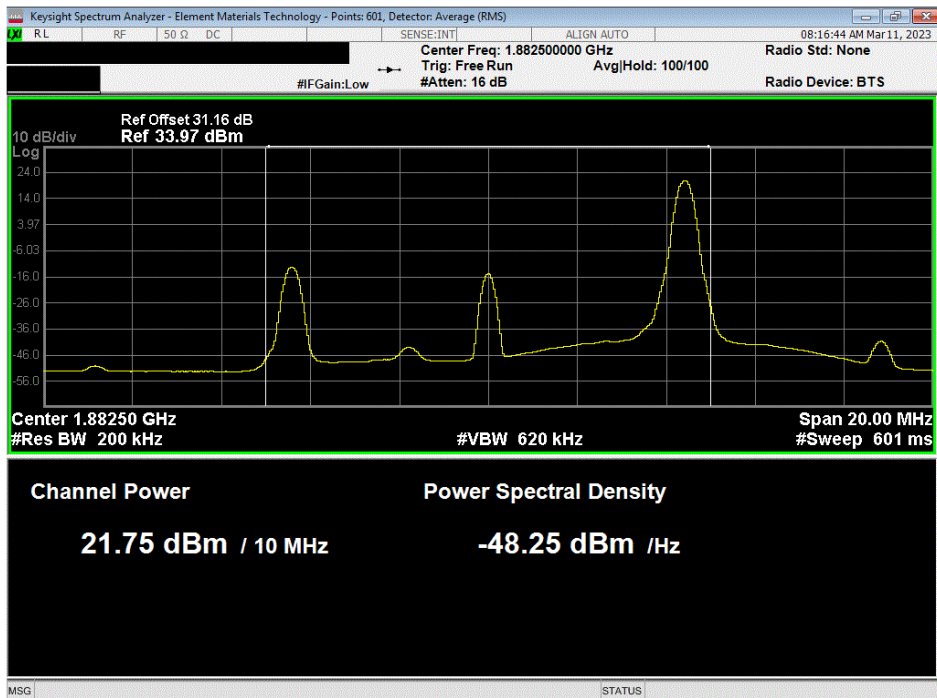


XMM 2022.12.28.0

LTE, QPSK, Band 25, 10 MHz Channel Bandwidth, 1RB / 24 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.53	0.10	22.63	N/A	0.1832	2	Pass



LTE, QPSK, Band 25, 10 MHz Channel Bandwidth, 1RB / 49 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
21.75	0.10	21.85	N/A	0.1531	2	Pass

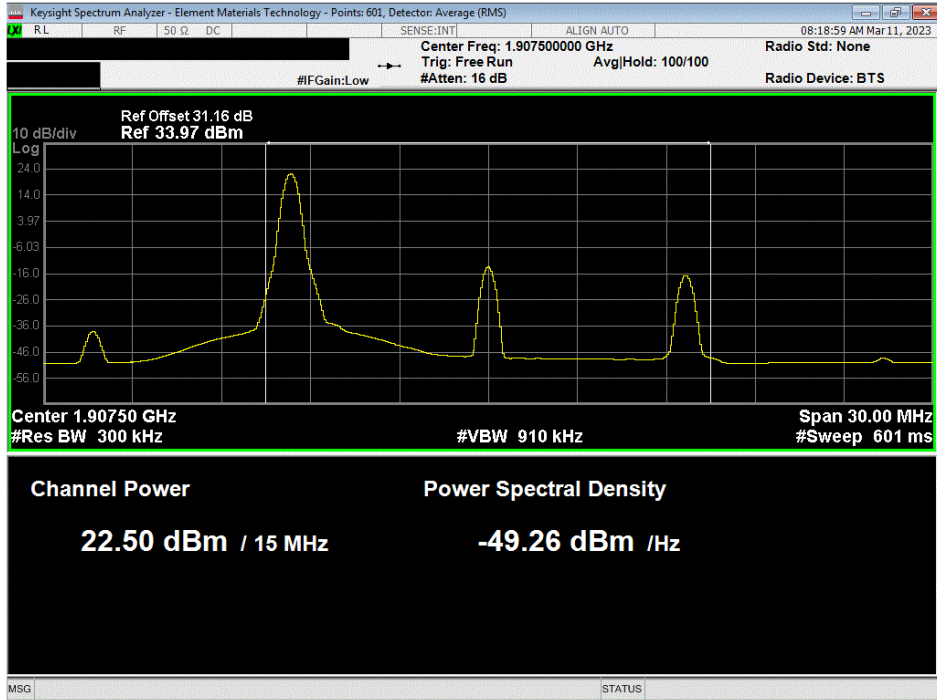


CONDUCTED OUTPUT POWER

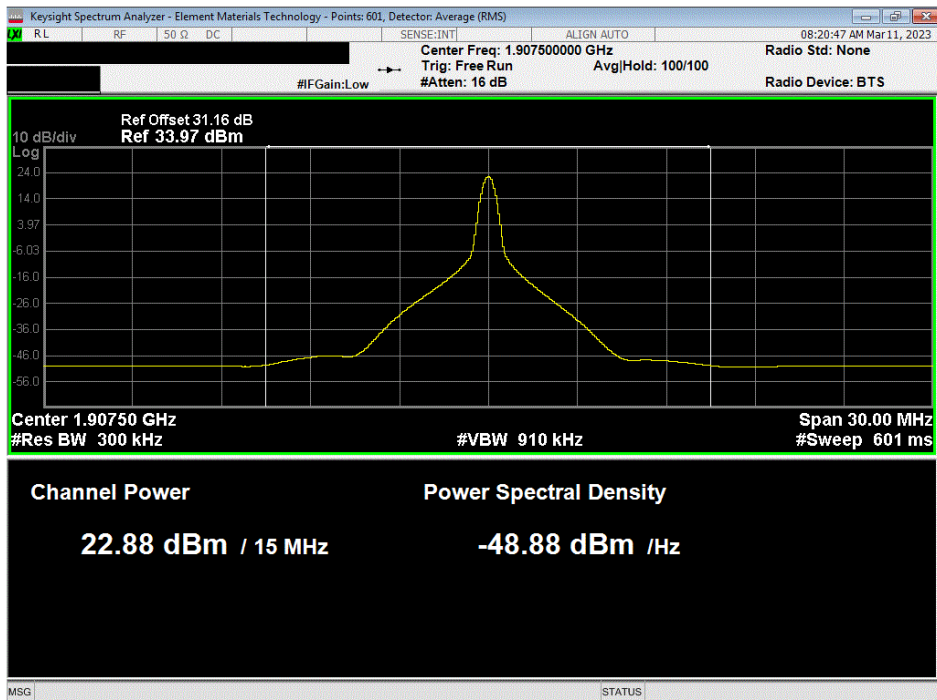


XMM 2022.12.28.0

LTE, QPSK, Band 25, 15 MHz Channel Bandwidth, 1RB / 0 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.50	0.10	22.6	N/A	0.1820	2	Pass



LTE, QPSK, Band 25, 15 MHz Channel Bandwidth, 1RB / 37 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.88	0.10	22.98	N/A	0.1986	2	Pass

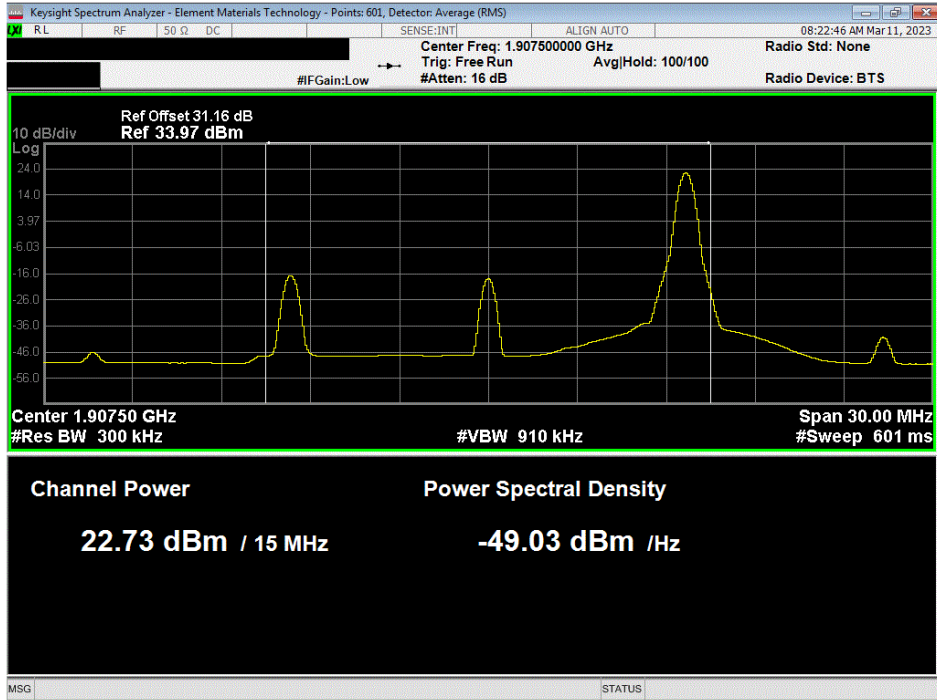


CONDUCTED OUTPUT POWER

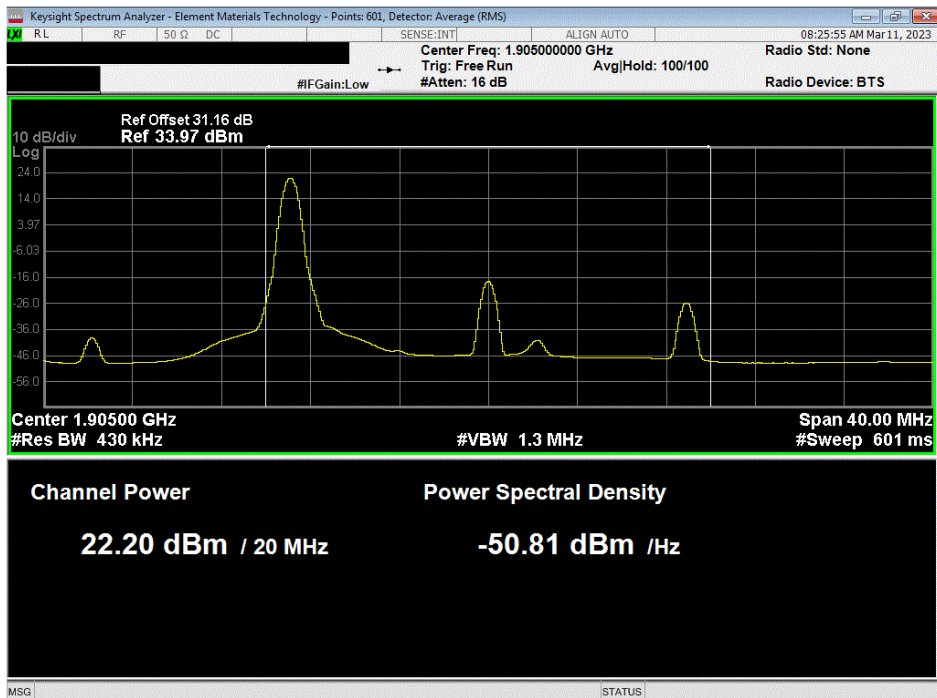


XMM 2022.12.28.0

LTE, QPSK, Band 25, 15 MHz Channel Bandwidth, 1RB / 74 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.73	0.10	22.83	N/A	0.1919	2	Pass



LTE, QPSK, Band 25, 20 MHz Channel Bandwidth, 1RB / 0 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.20	0.10	22.3	N/A	0.1698	2	Pass

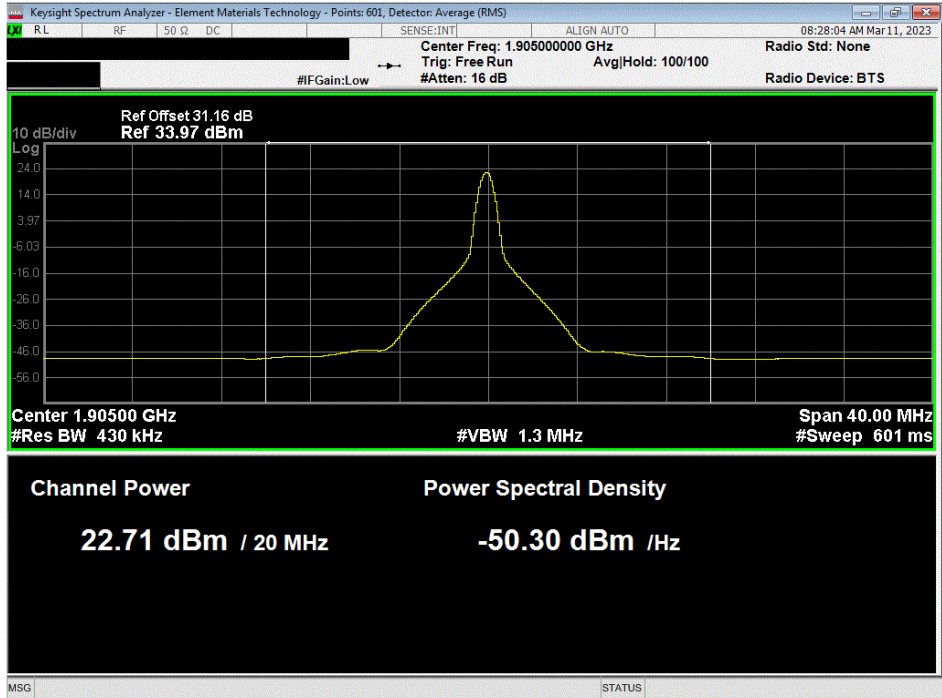


CONDUCTED OUTPUT POWER

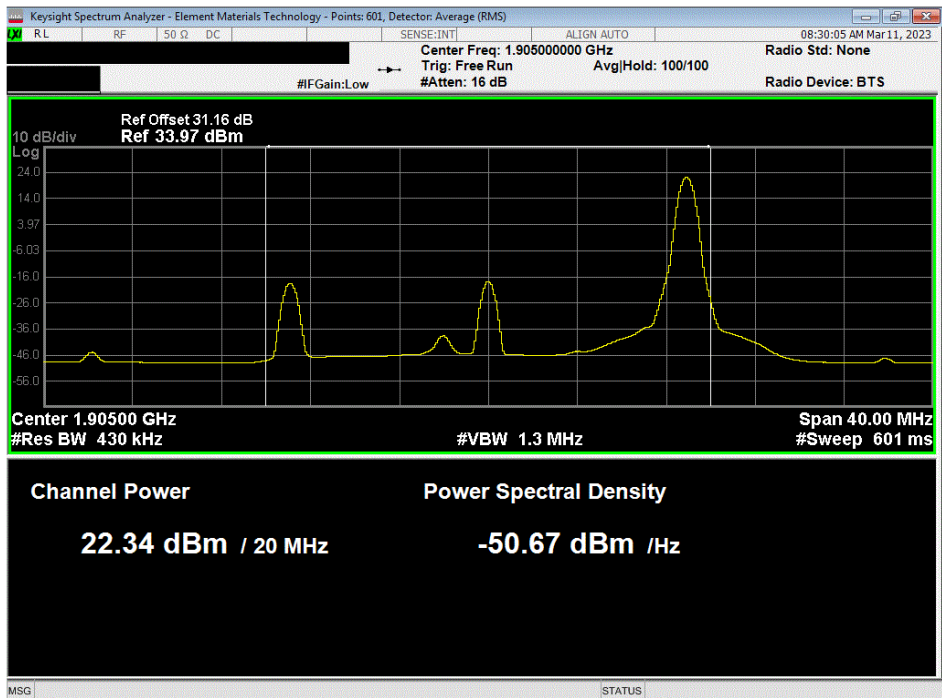


XMM 2022.12.28.0

LTE, QPSK, Band 25, 20 MHz Channel Bandwidth, 1RB / 49 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.71	0.10	22.81	N/A	0.1910	2	Pass



LTE, QPSK, Band 25, 20 MHz Channel Bandwidth, 1RB / 99 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.34	0.10	22.44	N/A	0.1754	2	Pass

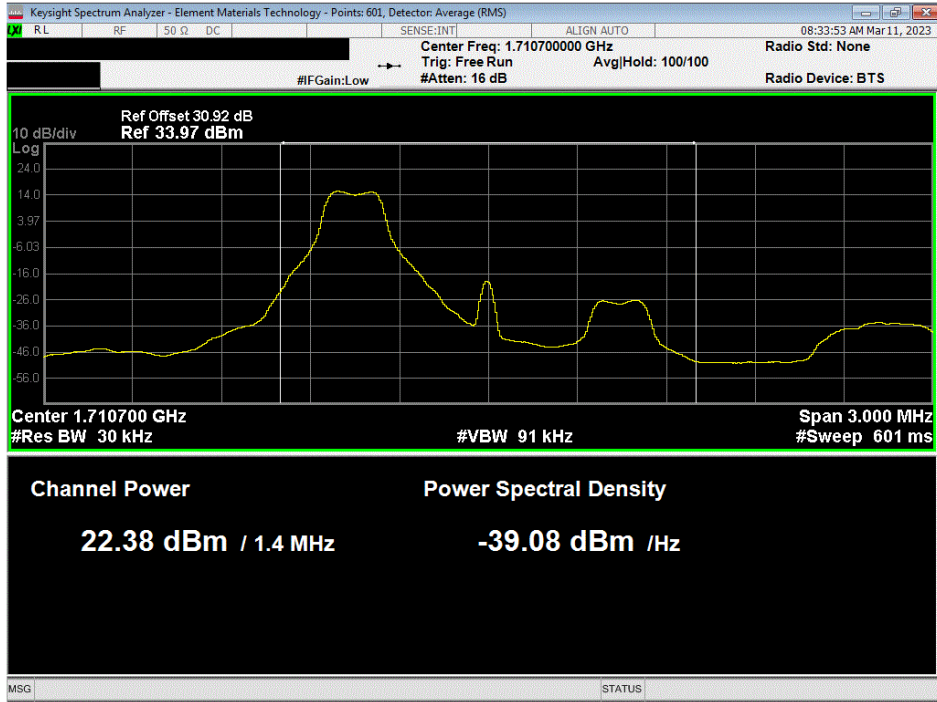


CONDUCTED OUTPUT POWER

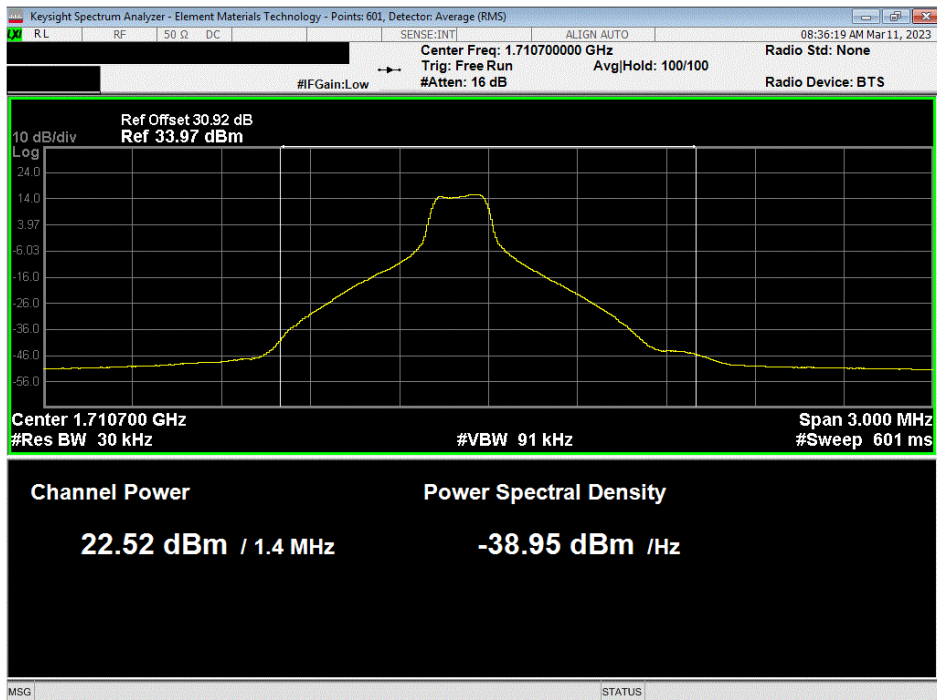


XMM 2022.12.28.0

LTE, QPSK, Band 66, 1.4 MHz Channel Bandwidth, 1RB / 0 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.38	-0.34	22.04	N/A	0.1600	1	Pass



LTE, QPSK, Band 66, 1.4 MHz Channel Bandwidth, 1RB / 2 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.52	-0.34	22.18	N/A	0.1652	1	Pass

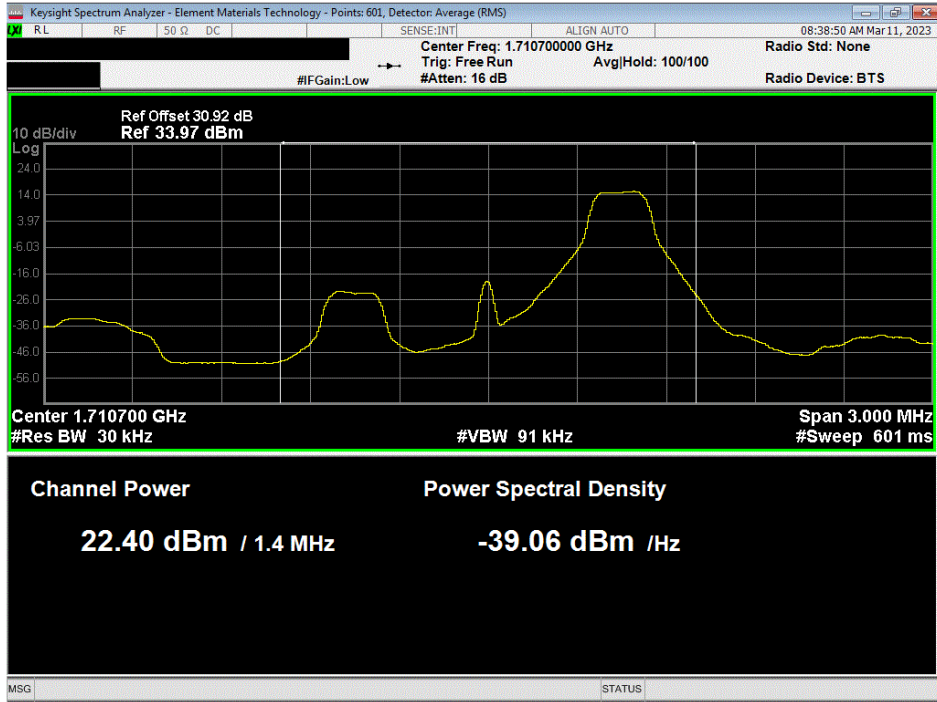


CONDUCTED OUTPUT POWER

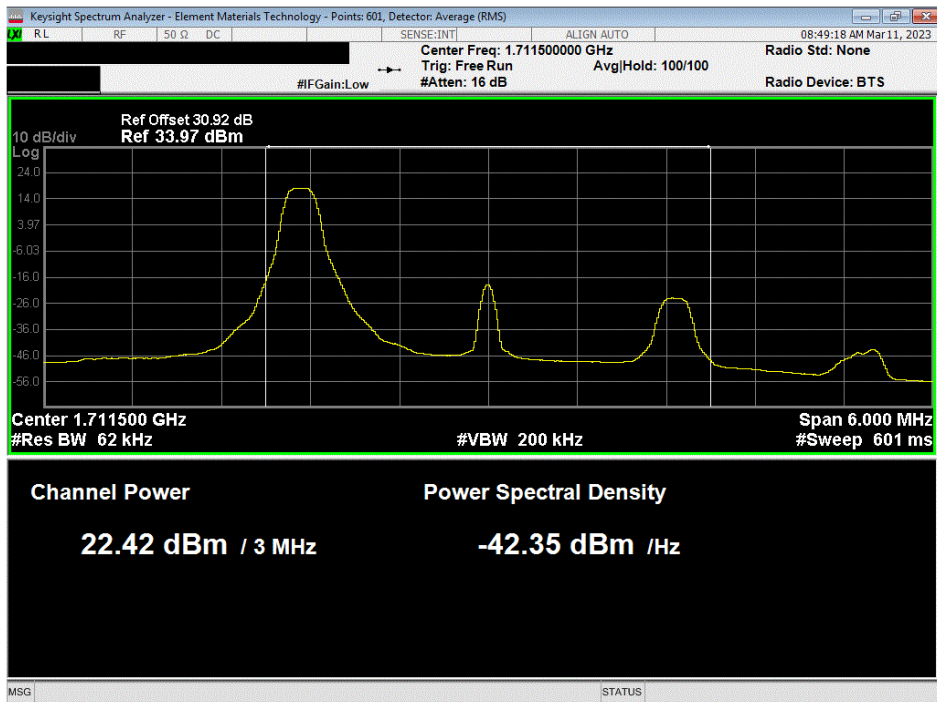


XMM 2022.12.28.0

LTE, QPSK, Band 66, 1.4 MHz Channel Bandwidth, 1RB / 5 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.40	-0.34	22.06	N/A	0.1607	1	Pass



LTE, QPSK, Band 66, 3 MHz Channel Bandwidth, 1RB / 0 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.42	-0.34	22.08	N/A	0.1614	1	Pass

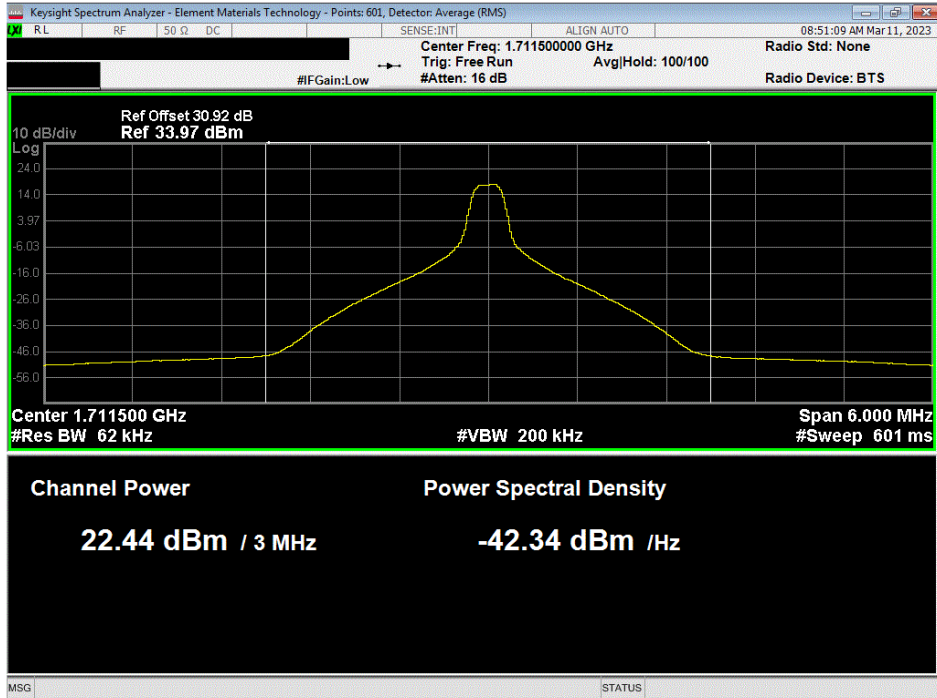


CONDUCTED OUTPUT POWER

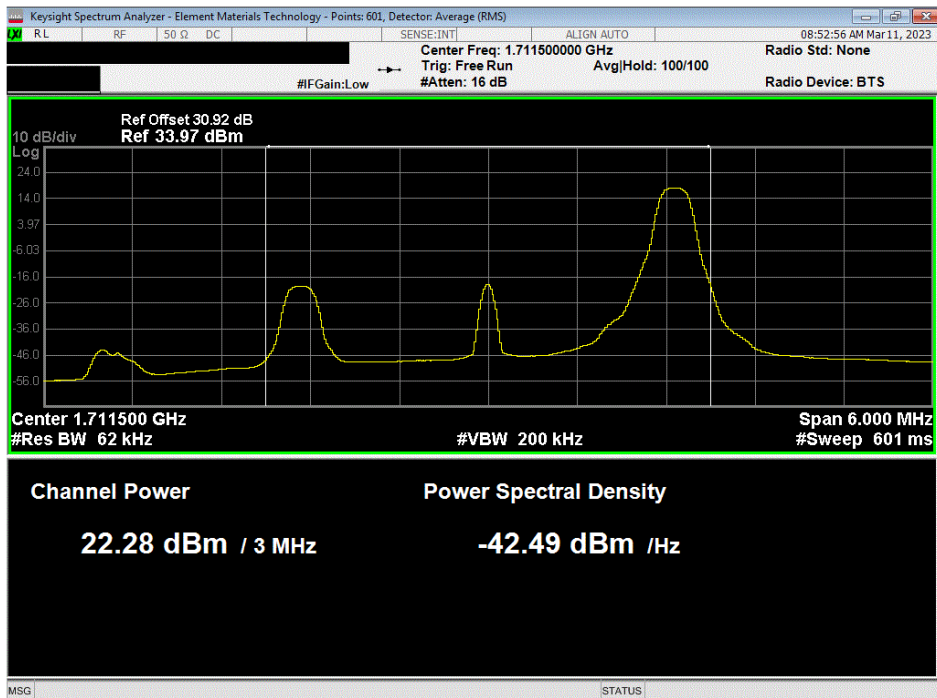


XMM 2022.12.28.0

LTE, QPSK, Band 66, 3 MHz Channel Bandwidth, 1RB / 7 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.44	-0.34	22.1	N/A	0.1622	1	Pass



LTE, QPSK, Band 66, 3 MHz Channel Bandwidth, 1RB / 14 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.28	-0.34	21.94	N/A	0.1563	1	Pass

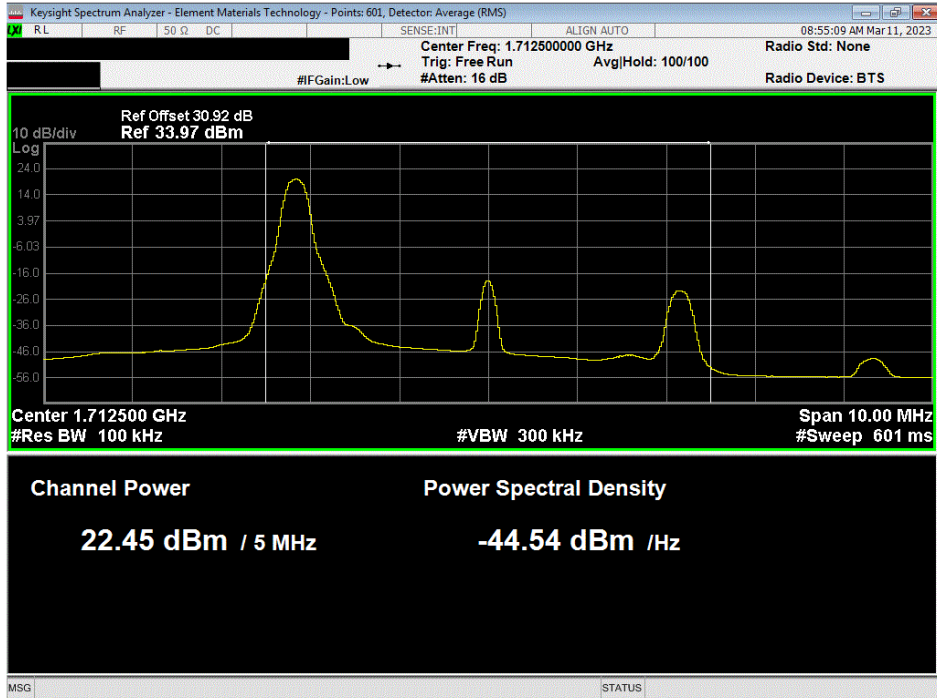


CONDUCTED OUTPUT POWER

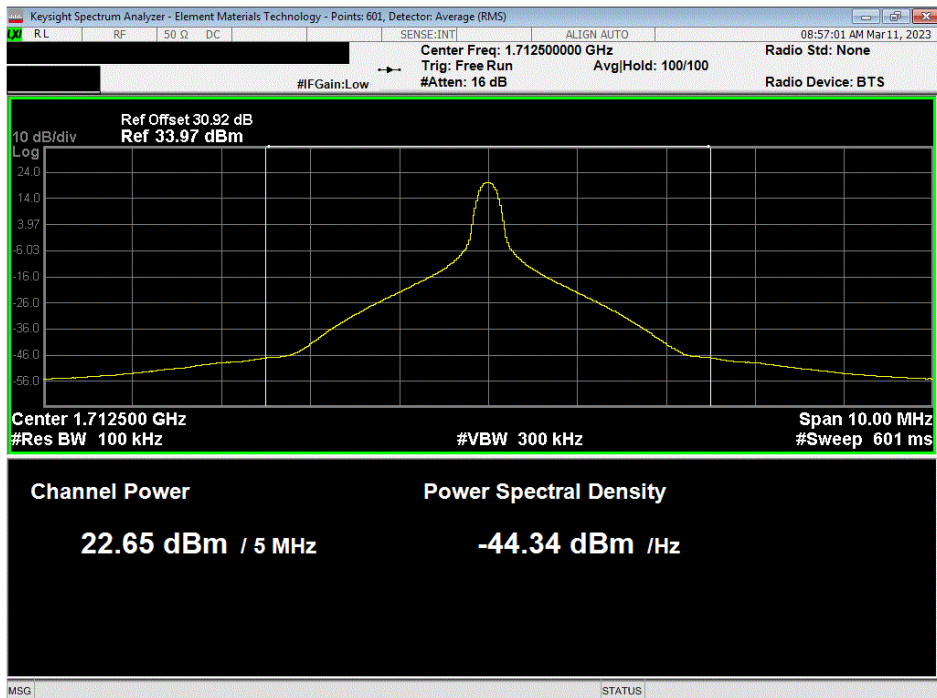


XMM 2022.12.28.0

LTE, QPSK, Band 66, 5 MHz Channel Bandwidth, 1RB / 0 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.45	-0.34	22.11	N/A	0.1626	1	Pass



LTE, QPSK, Band 66, 5 MHz Channel Bandwidth, 1RB / 12 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.65	-0.34	22.31	N/A	0.1702	1	Pass

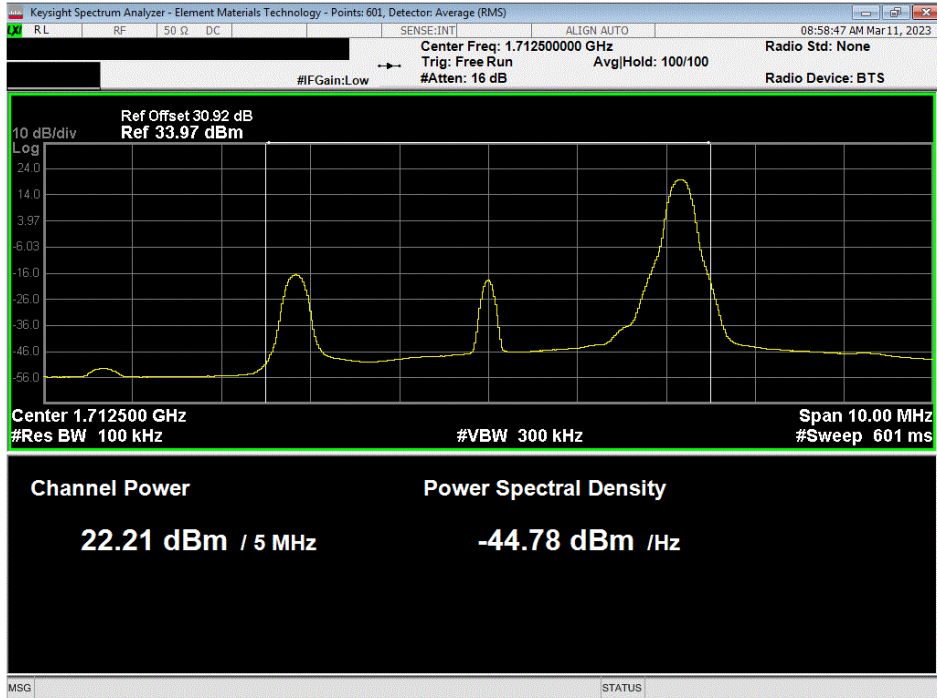


CONDUCTED OUTPUT POWER

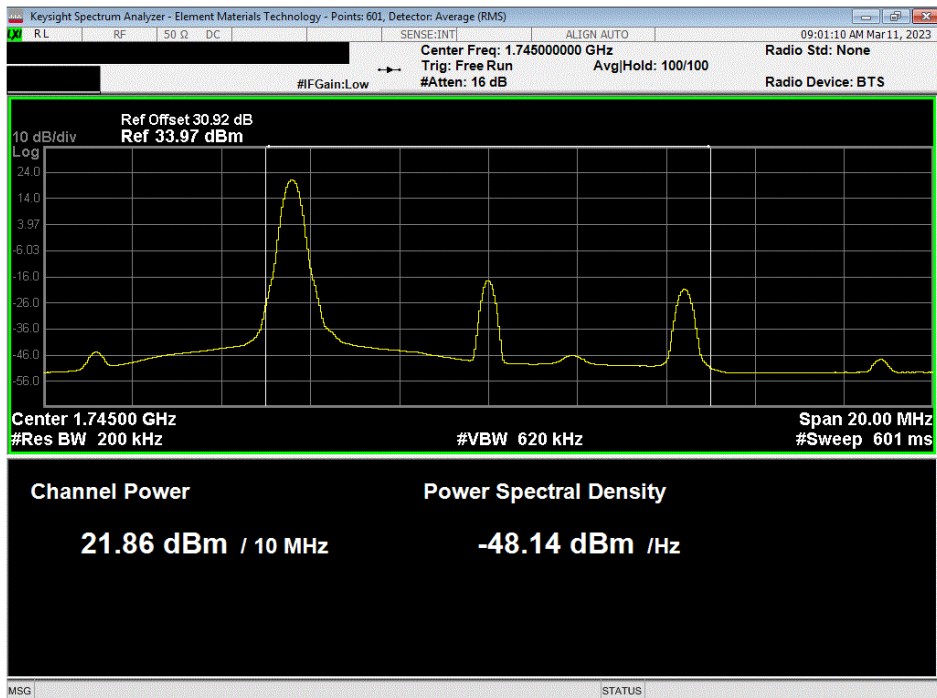


XMM 2022.12.28.0

LTE, QPSK, Band 66, 5 MHz Channel Bandwidth, 1RB / 24 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.21	-0.34	21.87	N/A	0.1538	1	Pass



LTE, QPSK, Band 66, 10 MHz Channel Bandwidth, 1RB / 0 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
21.86	-0.34	21.52	N/A	0.1419	1	Pass

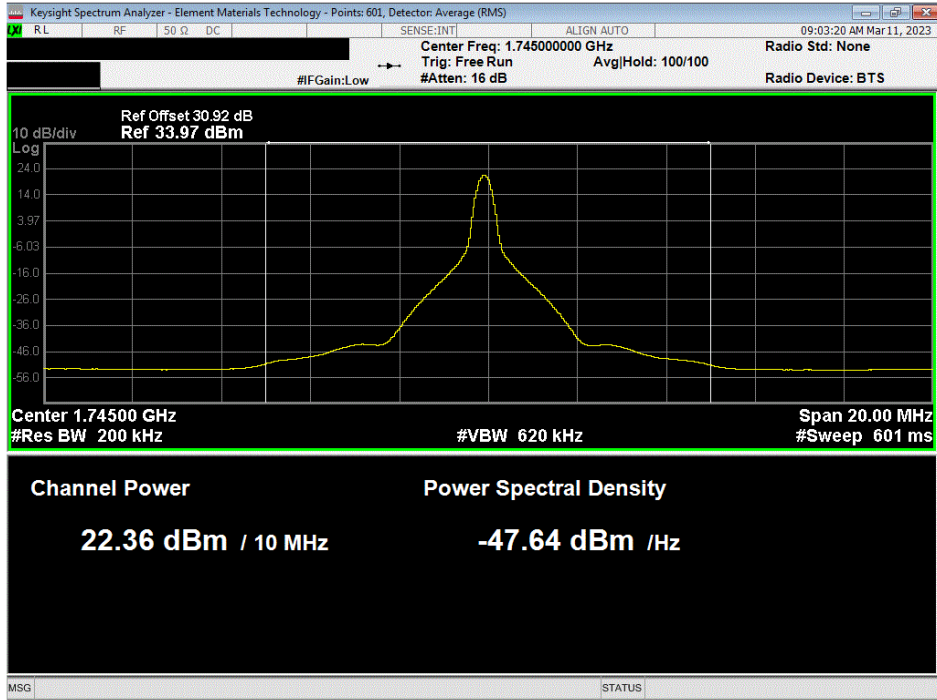


CONDUCTED OUTPUT POWER

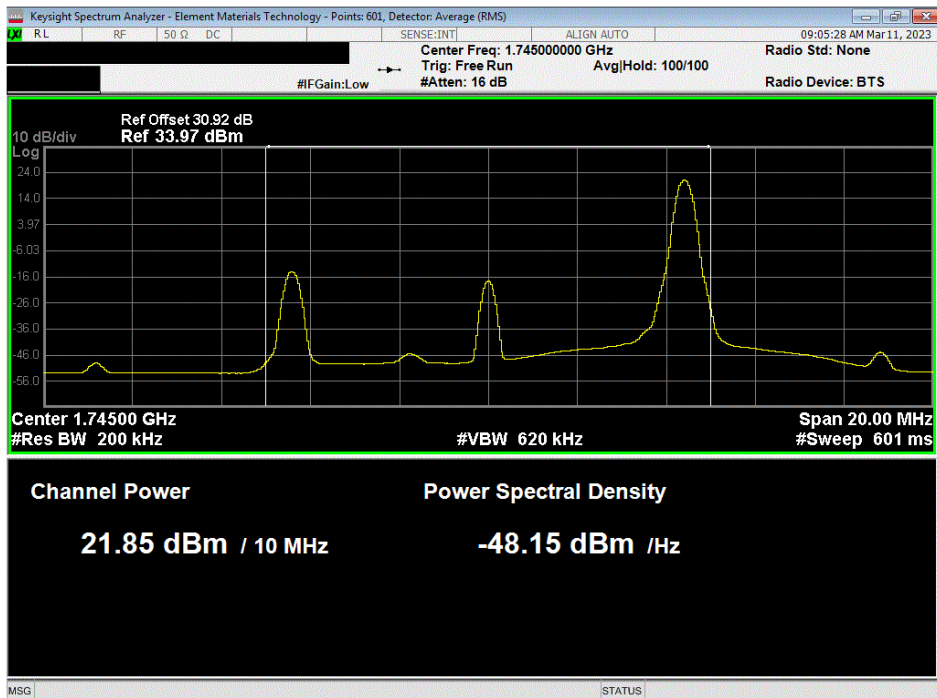


XMM 2022.12.28.0

LTE, QPSK, Band 66, 10 MHz Channel Bandwidth, 1RB / 24 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.36	-0.34	22.02	N/A	0.1592	1	Pass



LTE, QPSK, Band 66, 10 MHz Channel Bandwidth, 1RB / 49 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
21.85	-0.34	21.51	N/A	0.1416	1	Pass

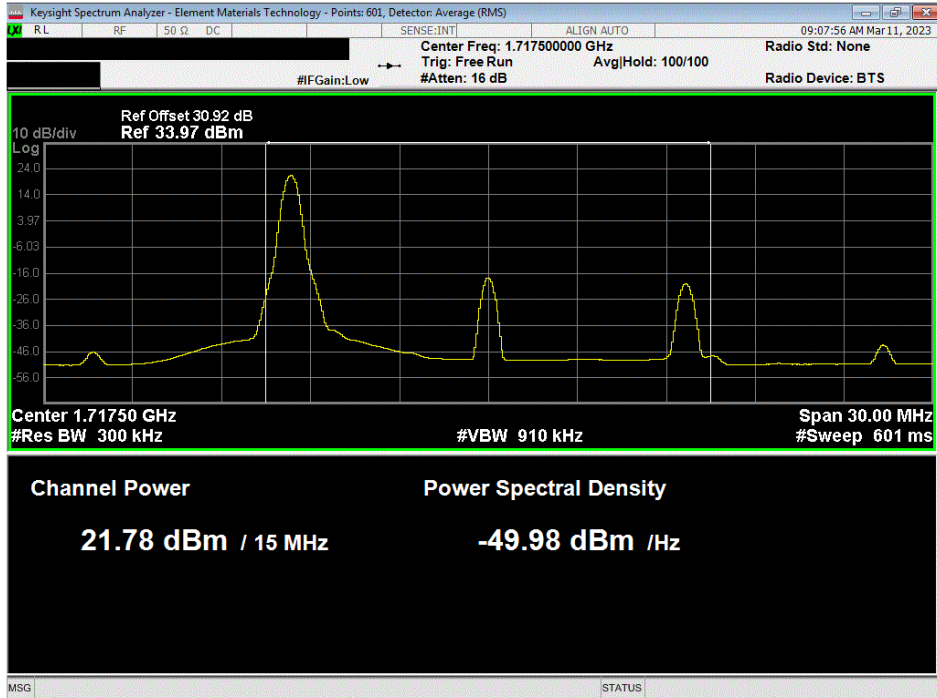


CONDUCTED OUTPUT POWER

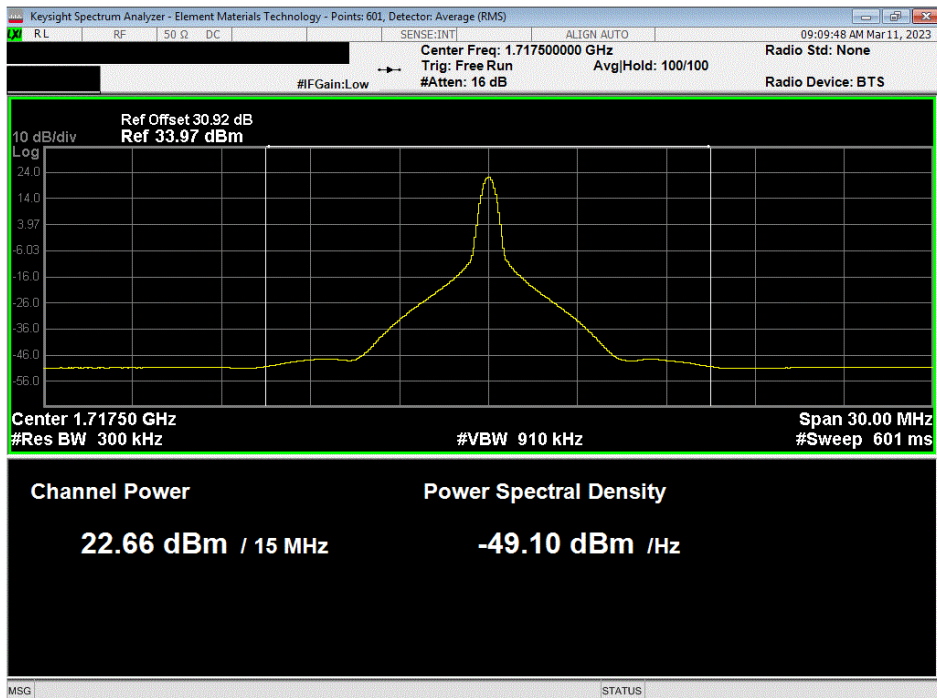


XMM 2022.12.28.0

LTE, QPSK, Band 66, 15 MHz Channel Bandwidth, 1RB / 0 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
21.78	-0.34	21.44	N/A	0.1393	1	Pass



LTE, QPSK, Band 66, 15 MHz Channel Bandwidth, 1RB / 37 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.66	-0.34	22.32	N/A	0.1706	1	Pass

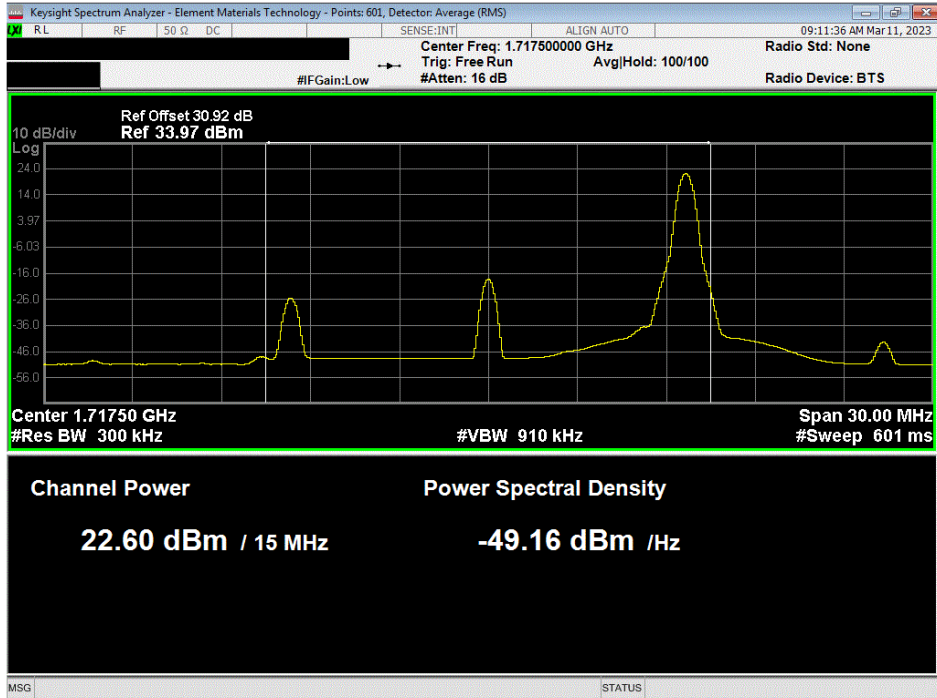


CONDUCTED OUTPUT POWER

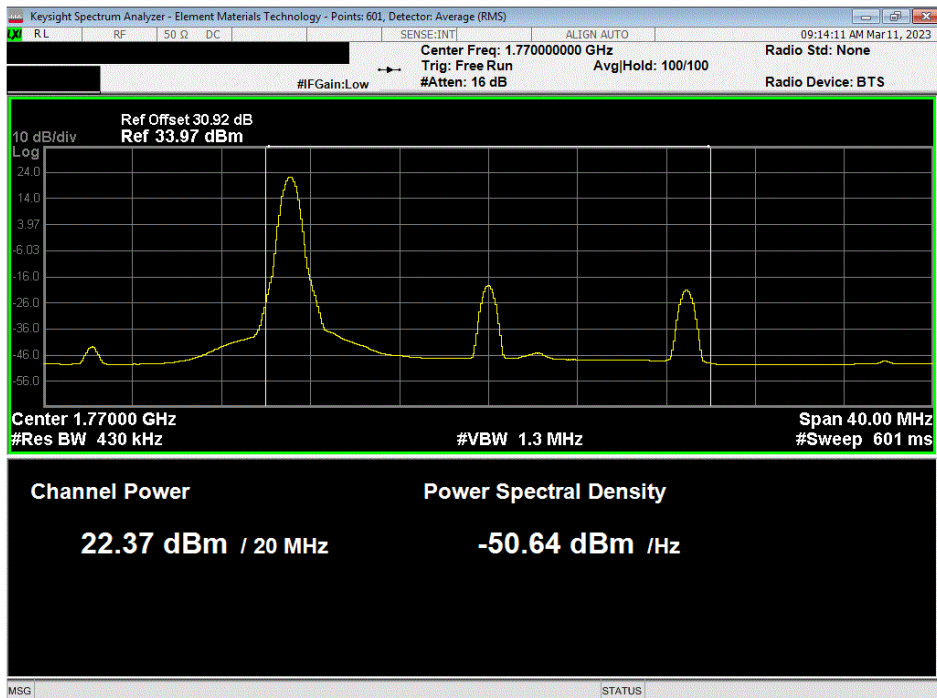


XMM 2022.12.28.0

LTE, QPSK, Band 66, 15 MHz Channel Bandwidth, 1RB / 74 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.60	-0.34	22.26	N/A	0.1683	1	Pass



LTE, QPSK, Band 66, 20 MHz Channel Bandwidth, 1RB / 0 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.38	-0.34	22.04	N/A	0.1600	1	Pass

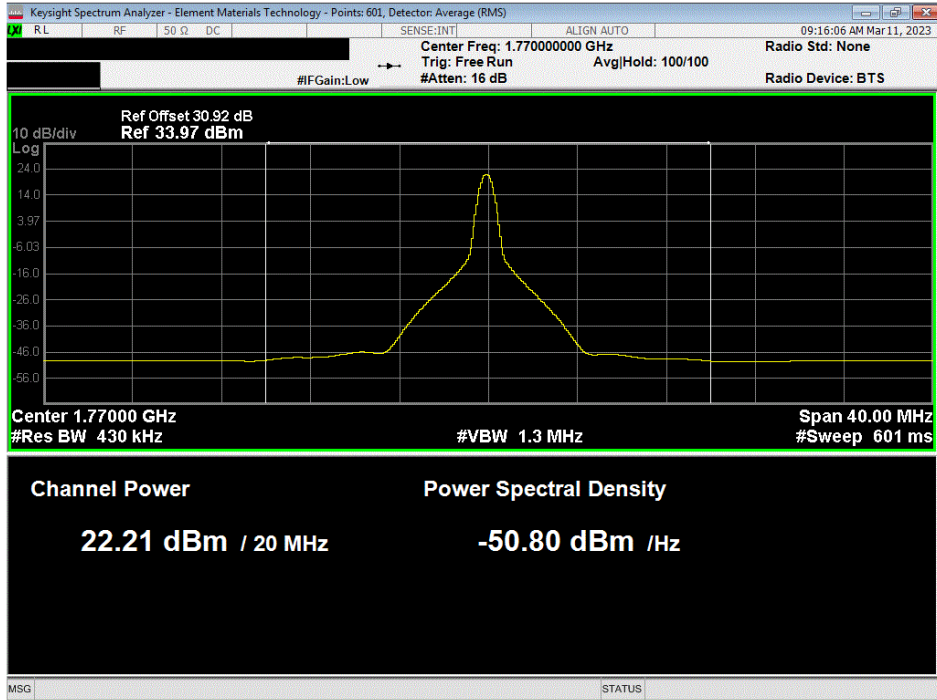


CONDUCTED OUTPUT POWER

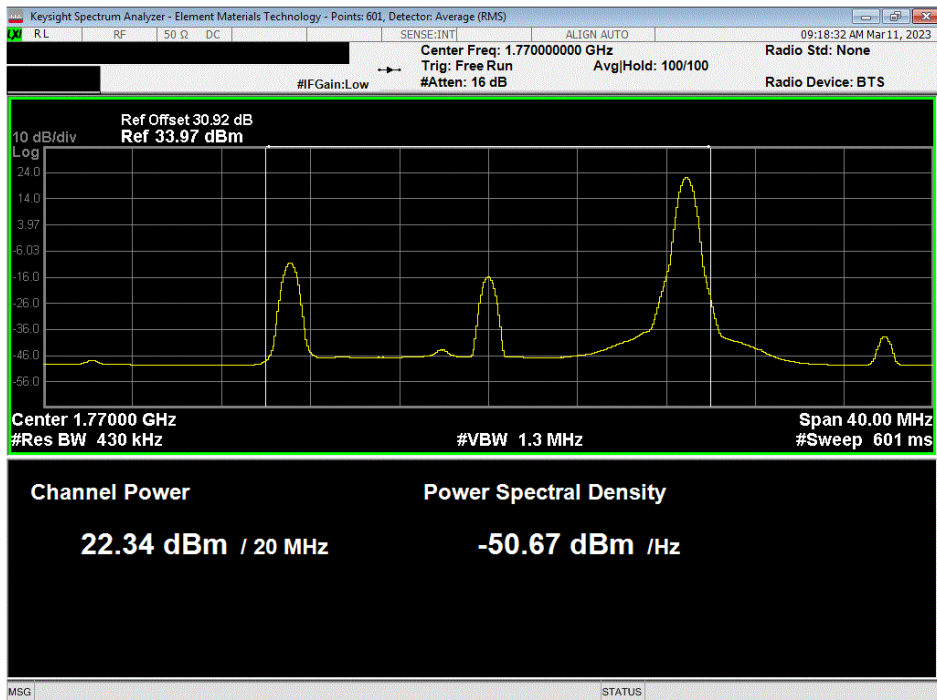


XMM 2022.12.28.0

LTE, QPSK, Band 66, 20 MHz Channel Bandwidth, 1RB / 49 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.21	-0.34	21.87	N/A	0.1538	1	Pass



LTE, QPSK, Band 66, 20 MHz Channel Bandwidth, 1RB / 99 Offset						
Measured Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	EIRP / ERP (W)	Limit (W)	Result
22.34	-0.34	22	N/A	0.1585	1	Pass



OUT OF BAND EMISSIONS – LTE BAND 2



TEST DESCRIPTION

At an approved test site, the transmitter was placed on a remotely controlled turntable, and the measurement antenna was placed 3 meters from the transmitter. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axes. The turntable azimuth was varied to maximize the level of spurious emissions. The height of the measurement antenna was also varied from 1 to 4 meters. A preamp and high pass filter (and notch filter) were used for this test in order to provide sufficient measurement sensitivity. The amplitude and frequency of the highest emissions was noted.

The transmitter was then replaced with a ½ wave dipole that was successively tuned to each of the highest spurious emissions for emissions below 1 GHz, and a horn antenna for emissions above 1 GHz. A signal generator was connected to the dipole (horn antenna for frequencies above 1 GHz), and its output was adjusted to match the level previously noted for each frequency. The output of the signal generator was recorded, and by factoring in the cable loss to the antenna and its gain, the power (dBm) was determined for each radiated spurious emission.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Receiver	Rohde & Schwarz	ESR26	ARQ	2022-05-02	2023-05-02
Antenna - Double Ridge	ETS Lindgren	3115	AJL	2022-10-21	2024-10-21
Amplifier - Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	PAJ	2022-04-19	2023-04-19
Cable	Northwest EMC	1-8.2 GHz	TXC	2022-04-19	2023-04-19
Antenna - Standard Gain	ETS Lindgren	3160-07	AJF	NCR	NCR
Amplifier - Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	PAK	2022-09-09	2023-09-09
Cable	Northwest EMC	8-18GHz	TXD	2022-04-12	2023-04-12
Antenna - Standard Gain	ETS Lindgren	3160-08	AJG	NCR	NCR
Amplifier - Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	PAL	2022-09-09	2023-09-09
Antenna - Double Ridge	A.H. Systems, Inc.	SAS-574	AXW	2022-09-09	2024-09-09
Amplifier - Pre-Amplifier	Miteq	JSDWK42-18004000-60-5P	PAM	2022-09-14	2023-09-14
Cable	Northwest EMC	18-40GHz	TXE	2022-09-09	2023-09-09
Antenna - Biconilog	ETS Lindgren	3143B	AYF	2022-09-02	2024-09-02
Cable	Northwest EMC	RE 9kHz - 1GHz	TXB	2022-06-10	2023-06-10
Amplifier - Pre-Amplifier	Fairview Microwave	FMAM63001	PAS	2022-04-19	2023-04-19
Filter - Low Pass	Micro-Tronics	LPM50004	HHV	2022-07-22	2023-07-22

OUT OF BAND EMISSIONS – LTE BAND 2

MEASUREMENT UNCERTAINTY

Description		
Expanded k=2	5.1 dB	-5.1 dB

FREQUENCY RANGE INVESTIGATED

30 MHz TO 18 GHz

POWER INVESTIGATED

4.2VDC via Battery

CONFIGURATIONS INVESTIGATED

WTVD0085-2

MODES INVESTIGATED

Transmitting LTE, +23 dBm, Band 2, 16QAM, 15 MHz Channel Bandwidth, Low Ch, 1857.5 MHz
Transmitting LTE, +23 dBm, Band 2, QPSK, 1.4 MHz Channel Bandwidth, Low Ch, 1850.7 MHz
Transmitting LTE, +23 dBm, Band 2, QPSK, 10 MHz Channel Bandwidth, Low Ch, 1855.0 MHz
Transmitting LTE, +23 dBm, Band 2, QPSK, 15 MHz Channel Bandwidth, Low Ch, 1857.5 MHz
Transmitting LTE, +23 dBm, Band 2, QPSK, 20 MHz Channel Bandwidth, Low Ch, 1860.0 MHz
Transmitting LTE, +23 dBm, Band 2, QPSK, 3 MHz Channel Bandwidth, Low Ch, 1851.5 MHz
Transmitting LTE, +23 dBm, Band 2, QPSK, 5 MHz Channel Bandwidth, Low Ch, 1852.5 MHz

OUT OF BAND EMISSIONS – LTE BAND 2



EUT:	V700	Work Order:	WTVD0085
Serial Number:	BWL7-000995	Date:	2023-03-13
Customer:	Motorola Solutions, Inc.	Temperature:	23.1°C
Attendees:	Navaid Karimi	Relative Humidity:	31%
Customer Project:	None	Bar. Pressure (PMSL):	1001 mb
Tested By:	Jarrod Brenden	Job Site:	TX02
Power:	4.2VDC via Battery	Configuration:	WTVD0085-2

TEST SPECIFICATIONS

Specification:	Method:
FCC 24.238:2023	ANSI C63.26:2015

TEST PARAMETERS

Run #:	15	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

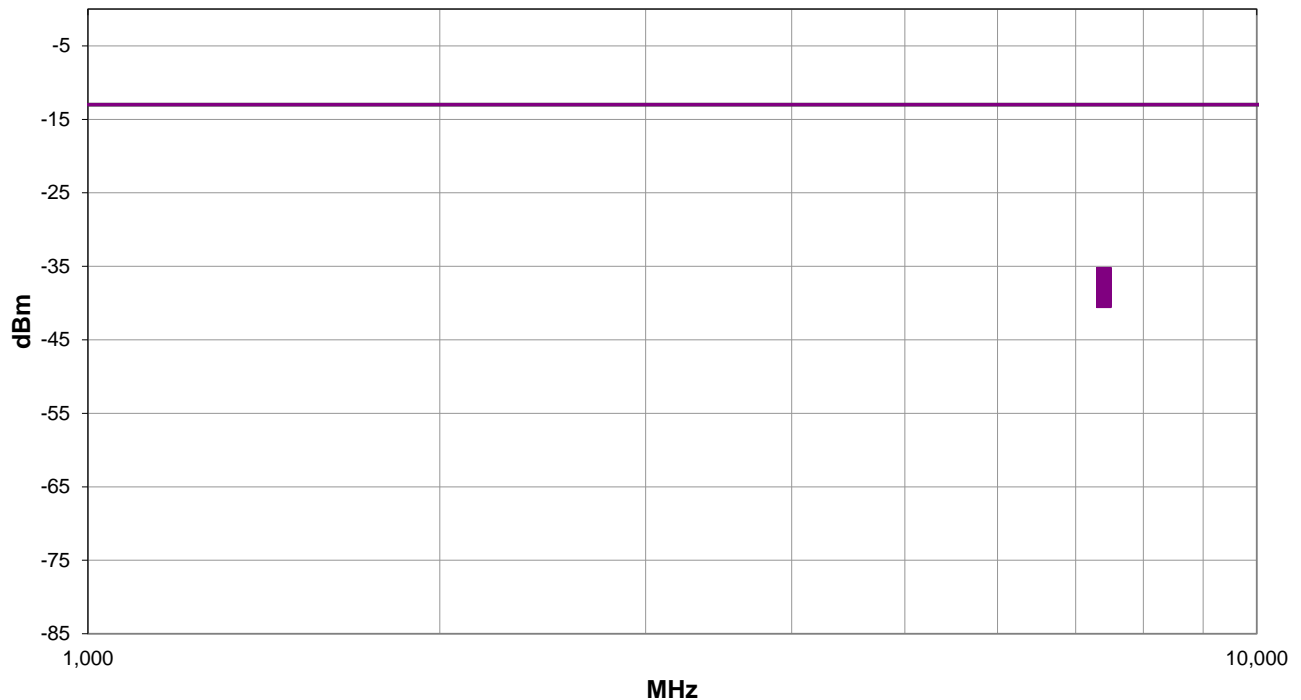
See line comments for EUT orientation, channel, and configuration.

EUT OPERATING MODES

Transmitting LTE, +23 dBm, Band 2, QPSK, 1.4 MHz Channel Bandwidth, Low Ch, 1850.7 MHz

DEVIATIONS FROM TEST STANDARD

None



Run #: 15

■ PK ◆ AV ● QP

OUT OF BAND EMISSIONS – LTE BAND 2



RESULTS - Run #15

Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
7402.358	2.86	298.9	Horz	PK	243.8E-9	-36.1	-13.0	-23.1	EUT on Side, 3RB/1, Low Ch
7400.850	2.88	291.0	Horz	PK	238.3E-9	-36.2	-13.0	-23.2	EUT on Side, 1RB/0, Low Ch
7401.526	2.86	298.9	Horz	PK	238.3E-9	-36.2	-13.0	-23.2	EUT on Side, 3RB/0, Low Ch
7403.958	2.86	296.0	Horz	PK	222.4E-9	-36.5	-13.0	-23.5	EUT on Side, 3RB/3, Low ch
7401.075	2.91	14.0	Horz	PK	212.4E-9	-36.7	-13.0	-23.7	EUT Vert, 1RB/0, Low Ch
7404.566	2.75	3.0	Vert	PK	207.5E-9	-36.8	-13.0	-23.8	EUT Horz, 1RB/5, Low Ch
7401.351	2.65	3.0	Vert	PK	193.7E-9	-37.1	-13.0	-24.1	EUT Horz, 3RB/0, Low Ch
7401.283	1.88	2.0	Vert	PK	172.6E-9	-37.6	-13.0	-24.6	EUT Horz, 1RB/0, Low Ch
7401.008	2.95	36.0	Vert	PK	164.9E-9	-37.8	-13.0	-24.8	EUT Vert, 1RB/0, Low Ch
7402.008	2.47	360.0	Vert	PK	161.1E-9	-37.9	-13.0	-24.9	EUT Horz, 1RB/2, Low Ch
7404.216	1.5	21.0	Vert	PK	161.1E-9	-37.9	-13.0	-24.9	EUT Horz, 3RB/3, Low Ch
7404.857	1.5	244.9	Horz	PK	143.6E-9	-38.4	-13.0	-25.4	EUT on Side, 1RB/5, Low Ch
7400.809	2.58	327.0	Vert	PK	134.0E-9	-38.7	-13.0	-25.7	EUT on Side, 1RB/0, Low Ch
7402.466	1.5	244.9	Horz	PK	134.0E-9	-38.7	-13.0	-25.7	EUT on Side, 1RB/2, Low Ch
7402.516	1.66	21.9	Vert	PK	134.0E-9	-38.7	-13.0	-25.7	EUT Horz, 3RB/1, Low Ch
7402.634	1.5	30.0	Vert	PK	114.1E-9	-39.4	-13.0	-26.4	EUT Horz, 6RB/0, Low Ch
7402.726	1.67	243.9	Horz	PK	111.5E-9	-39.5	-13.0	-26.5	EUT on Side, 6RB/0, Low Ch
7401.042	1.57	153.9	Horz	PK	108.9E-9	-39.6	-13.0	-26.6	EUT Horz, 1RB/0, Low Ch

CONCLUSION

Pass

Tested By

OUT OF BAND EMISSIONS – LTE BAND 2



EUT:	V700	Work Order:	WTVD0085
Serial Number:	BWL7-000995	Date:	2023-03-13
Customer:	Motorola Solutions, Inc.	Temperature:	23.1°C
Attendees:	Navaid Karimi	Relative Humidity:	31%
Customer Project:	None	Bar. Pressure (PMSL):	1001 mb
Tested By:	Jarrold Brenden	Job Site:	TX02
Power:	4.2VDC via Battery	Configuration:	WTVD0085-2

TEST SPECIFICATIONS

Specification:	Method:
FCC 24.238:2023	ANSI C63.26:2015

TEST PARAMETERS

Run #:	27	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

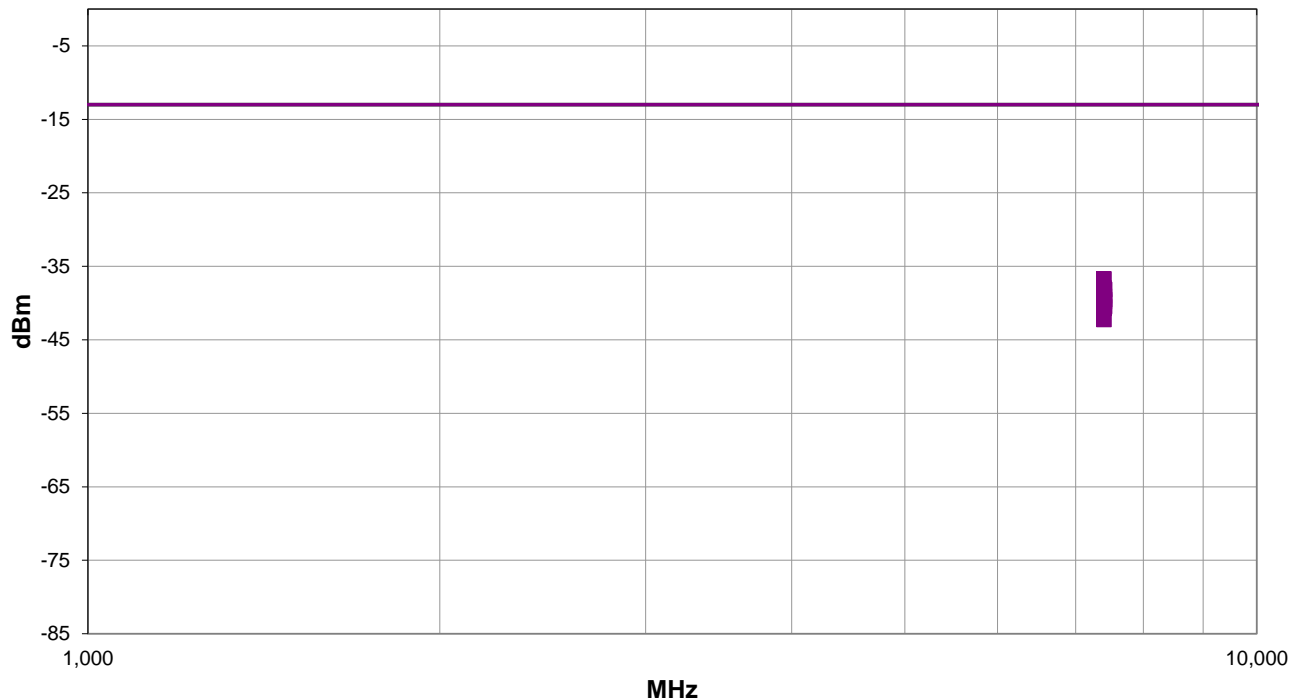
See line comments for EUT orientation, channel, and configuration.

EUT OPERATING MODES

Transmitting LTE, +23 dBm, Band 2, QPSK, 3 MHz Channel Bandwidth, Low Ch, 1851.5 MHz

DEVIATIONS FROM TEST STANDARD

None



Run #: 27

■ PK ◆ AV ● QP

OUT OF BAND EMISSIONS – LTE BAND 2



RESULTS - Run #27

Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
7400.676	3.09	61.0	Horz	PK	212.4E-9	-36.7	-13.0	-23.7	EUT Vert, 1RB/0, Low Ch
7401.008	3.65	39.9	Vert	PK	161.1E-9	-37.9	-13.0	-24.9	EUT Vert, 1RB/0, Low Ch
7410.900	1.4	8.0	Horz	PK	153.9E-9	-38.1	-13.0	-25.1	EUT Vert, 1RB/14, Low Ch
7406.000	1.51	93.0	Horz	PK	143.6E-9	-38.4	-13.0	-25.4	EUT Vert, 1RB/7, Low Ch
7400.958	1.5	24.0	Vert	PK	137.1E-9	-38.6	-13.0	-25.6	EUT Horz, 1RB/0, Low Ch
7400.950	2.58	326.0	Vert	PK	131.0E-9	-38.8	-13.0	-25.8	EUT on Side, 1RB/0, Low Ch
7400.767	1.41	243.9	Horz	PK	125.1E-9	-39.0	-13.0	-26.0	EUT on Side, 1RB/0, Low Ch
7408.166	1.45	183.0	Horz	PK	125.1E-9	-39.0	-13.0	-26.0	EUT Vert, 8RB/7, Low Ch
7411.042	1.64	87.9	Vert	PK	111.5E-9	-39.5	-13.0	-26.5	EUT Vert, 1RB/14, Low Ch
7400.709	1.41	158.0	Horz	PK	108.9E-9	-39.6	-13.0	-26.6	EUT Horz, 1RB/0, Low Ch
7406.316	3.31	206.0	Vert	PK	104.0E-9	-39.8	-13.0	-26.8	EUT Vert, 8RB4, Low Ch
7404.691	1.5	360.0	Horz	PK	101.7E-9	-39.9	-13.0	-26.9	EUT Vert, 8RB/0, Low Ch
7405.501	1.5	99.0	Vert	PK	90.6E-9	-40.4	-13.0	-27.4	EUT Vert, 1RB/7, Low Ch
7408.716	1.5	267.0	Vert	PK	90.6E-9	-40.4	-13.0	-27.4	EUT Vert, 8RB/7, Low Ch
7408.063	1.9	358.9	Horz	PK	88.5E-9	-40.5	-13.0	-27.5	EUT Vert, 8RB4, Low Ch
7404.774	1.5	87.9	Vert	PK	86.5E-9	-40.6	-13.0	-27.6	EUT Vert, 8RB/0, Low Ch
7403.022	1.5	87.0	Horz	PK	84.6E-9	-40.7	-13.0	-27.7	EUT Vert, 15RB/0, Low Ch
7401.865	1.5	63.9	Vert	PK	59.9E-9	-42.2	-13.0	-29.2	EUT Vert, 15RB/0, Low Ch

CONCLUSION

Pass

Tested By

OUT OF BAND EMISSIONS – LTE BAND 2



EUT:	V700	Work Order:	WTVD0085
Serial Number:	BWL7-000995	Date:	2023-03-13
Customer:	Motorola Solutions, Inc.	Temperature:	23.1°C
Attendees:	Navaid Karimi	Relative Humidity:	31%
Customer Project:	None	Bar. Pressure (PMSL):	1001 mb
Tested By:	Jarrold Brenden	Job Site:	TX02
Power:	4.2VDC via Battery	Configuration:	WTVD0085-2

TEST SPECIFICATIONS

Specification:	Method:
FCC 24.238:2023	ANSI C63.26:2015

TEST PARAMETERS

Run #:	39	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

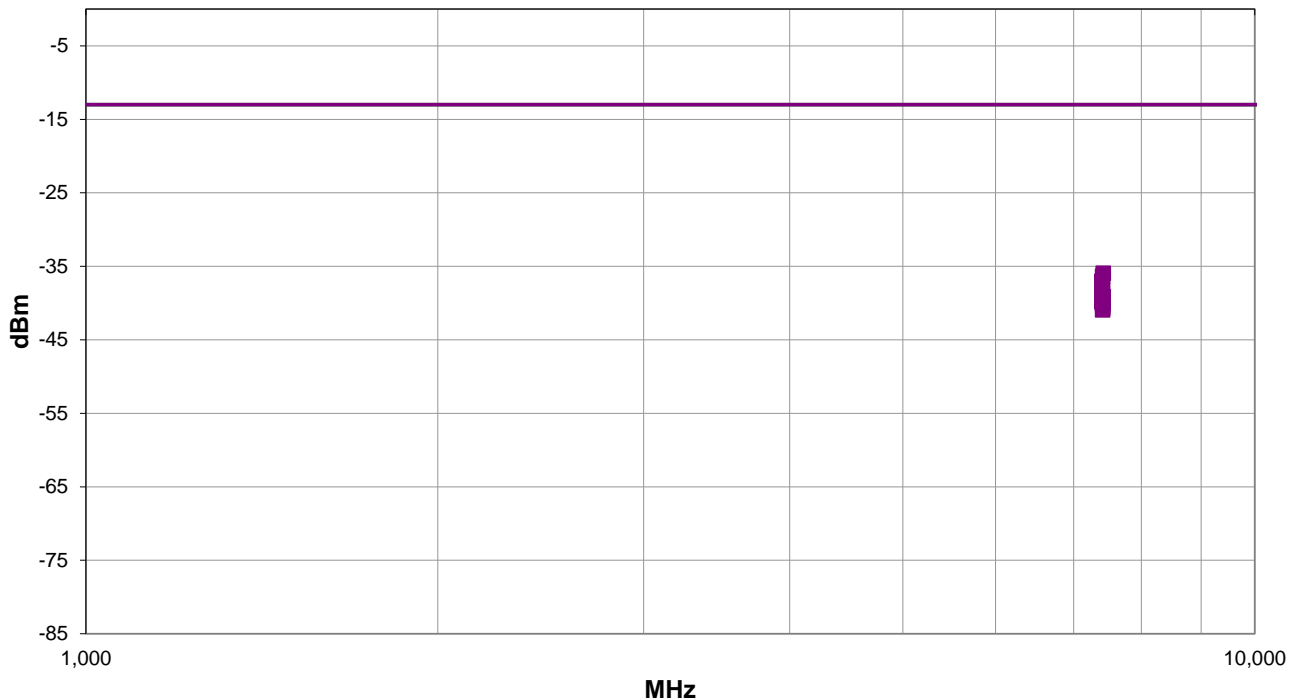
See line comments for EUT orientation, channel, and configuration.

EUT OPERATING MODES

Transmitting LTE, +23 dBm, Band 2, QPSK, 5 MHz Channel Bandwidth, Low Ch, 1852.5 MHz

DEVIATIONS FROM TEST STANDARD

None



Run #: 39

■ PK ◆ AV ● QP

OUT OF BAND EMISSIONS – LTE BAND 2



RESULTS - Run #39

Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
7418.634	1.88	6.0	Vert	PK	255.3E-9	-35.9	-13.0	-22.9	EUT Horz, 1RB/24, Low Ch
7409.900	3.54	33.9	Vert	PK	232.9E-9	-36.3	-13.0	-23.3	EUT Horz, 1RB/12, Low Ch
7401.193	1.87	4.9	Vert	PK	198.2E-9	-37.0	-13.0	-24.0	EUT Horz, 1RB/0, Low Ch
7401.260	1.5	1.0	Horz	PK	153.9E-9	-38.1	-13.0	-25.1	EUT Vert, 1RB/0, Low Ch
7409.542	1.5	355.0	Horz	PK	150.4E-9	-38.2	-13.0	-25.2	EUT Vert, 1RB/12, Low Ch
7401.509	1.5	243.9	Horz	PK	134.0E-9	-38.7	-13.0	-25.7	EUT on Side, 1RB/0, Low Ch
7401.102	2.96	16.9	Horz	PK	131.0E-9	-38.8	-13.0	-25.8	EUT Horz, 1RB/0, Low Ch
7418.526	1.5	0.0	Horz	PK	122.2E-9	-39.1	-13.0	-26.1	EUT Vert, 1RB/24, Low Ch
7405.466	1.78	32.0	Vert	PK	114.1E-9	-39.4	-13.0	-26.4	EUT Horz, 12RB/0, Low Ch
7401.509	2.53	338.0	Vert	PK	111.5E-9	-39.5	-13.0	-26.5	EUT on Side, 1RB/0, Low Ch
7410.058	1.5	8.0	Horz	PK	111.5E-9	-39.5	-13.0	-26.5	EUT Vert, 12RB/6, Low Ch
7401.742	1.5	87.9	Vert	PK	106.4E-9	-39.7	-13.0	-26.7	EUT Vert, 1RB/0, Low Ch
7405.782	1.5	4.9	Horz	PK	104.0E-9	-39.8	-13.0	-26.8	EUT Vert, 12RB/0, Low Ch
7414.609	1.59	20.0	Vert	PK	101.7E-9	-39.9	-13.0	-26.9	EUT Horz, 12RB/13, Low Ch
7410.067	1.63	19.0	Vert	PK	99.3E-9	-40.0	-13.0	-27.0	EUT Horz, 25RB/0, Low Ch
7409.651	1.5	1.0	Vert	PK	97.1E-9	-40.1	-13.0	-27.1	EUT Horz, 12RB/6, Low Ch
7414.451	1.05	358.9	Horz	PK	86.5E-9	-40.6	-13.0	-27.6	EUT Vert, 12RB/13, Low Ch
7410.416	1.5	360.0	Horz	PK	80.7E-9	-40.9	-13.0	-27.9	EUT Vert, 25RB/0, Low Ch

CONCLUSION

Pass

Tested By

OUT OF BAND EMISSIONS – LTE BAND 2



EUT:	V700	Work Order:	WTVD0085
Serial Number:	BWL7-000995	Date:	2023-03-14
Customer:	Motorola Solutions, Inc.	Temperature:	23.1°C
Attendees:	Navaid Karimi	Relative Humidity:	31%
Customer Project:	None	Bar. Pressure (PMSL):	1001 mb
Tested By:	Jarrold Brenden	Job Site:	TX02
Power:	4.2VDC via Battery	Configuration:	WTVD0085-2

TEST SPECIFICATIONS

Specification:	Method:
FCC 24.238:2023	ANSI C63.26:2015

TEST PARAMETERS

Run #:	51	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

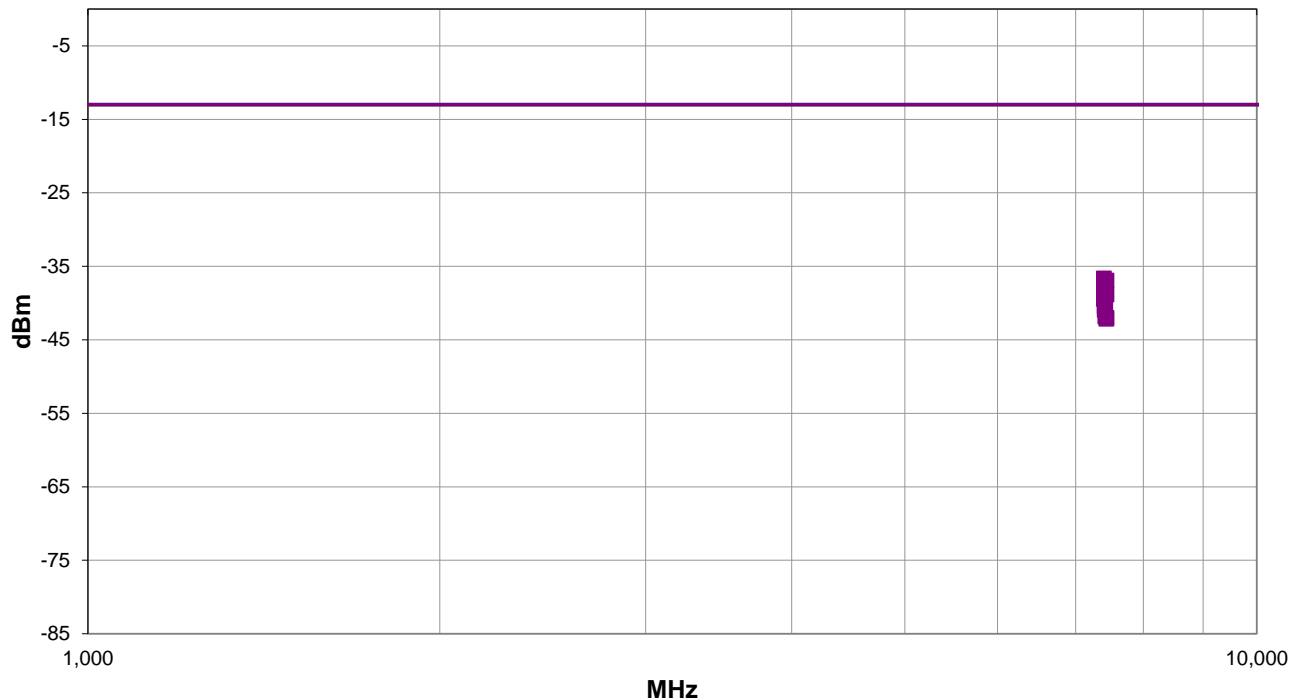
See line comments for EUT orientation, channel, and configuration.

EUT OPERATING MODES

Transmitting LTE, +23 dBm, Band 2, QPSK, 10 MHz Channel Bandwidth, Low Ch, 1855.0 MHz

DEVIATIONS FROM TEST STANDARD

None



Run #: 51

■ PK ◆ AV ● QP

OUT OF BAND EMISSIONS – LTE BAND 2



RESULTS - Run #51

Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
7402.291	1.77	3.9	Vert	PK	217.3E-9	-36.6	-13.0	-23.6	EUT Horz, 1RB/0, Low Ch
7437.374	3.51	32.0	Vert	PK	202.8E-9	-36.9	-13.0	-23.9	EUT Horz, 1RB/49, Low Ch
7419.501	1.33	360.0	Horz	PK	193.7E-9	-37.1	-13.0	-24.1	EUT Vert, 1RB/24, Low Ch
7419.767	3.51	32.0	Vert	PK	172.6E-9	-37.6	-13.0	-24.6	EUT Horz, 1RB/24, Low Ch
7402.333	2.9	28.9	Vert	PK	150.4E-9	-38.2	-13.0	-25.2	EUT Vert, 1RB/0, Low Ch
7402.383	1.5	0.0	Horz	PK	140.3E-9	-38.5	-13.0	-25.5	EUT Vert, 1RB/0, Low Ch
7419.667	1.8	2.0	Vert	PK	134.0E-9	-38.7	-13.0	-25.7	EUT Horz, 25RB/12, Low Ch
7437.458	1.48	90.0	Horz	PK	131.0E-9	-38.8	-13.0	-25.8	EUT Vert, 1RB/49, Low Ch
7402.050	2.73	4.9	Horz	PK	125.1E-9	-39.0	-13.0	-26.0	EUT Horz, 1RB/0, Low Ch
7402.216	1.5	97.0	Horz	PK	114.1E-9	-39.4	-13.0	-26.4	EUT on Sid, 1RB/0, Low Ch
7402.582	2.82	343.0	Vert	PK	114.1E-9	-39.4	-13.0	-26.4	EUT on Sid, 1RB/0, Low Ch
7419.958	1.5	352.9	Horz	PK	101.7E-9	-39.9	-13.0	-26.9	EUT Vert, 25RB/12, Low ch
7420.000	2.76	3.0	Vert	PK	99.3E-9	-40.0	-13.0	-27.0	EUT Horz, 50RB/0, Low Ch
7410.566	1.39	7.0	Horz	PK	90.6E-9	-40.4	-13.0	-27.4	EUT Vert, 25RB/0, Low Ch
7410.948	1.5	360.0	Vert	PK	80.7E-9	-40.9	-13.0	-27.9	EUT Horz, 25RB/0, Low Ch
7420.100	1.5	80.0	Horz	PK	65.6E-9	-41.8	-13.0	-28.8	EUT Vert, 50RB/0, Low Ch
7438.506	1.5	147.0	Vert	PK	62.7E-9	-42.0	-13.0	-29.0	EUT Horz, 25RB/25, Low Ch
7434.762	1.5	2.0	Horz	PK	61.3E-9	-42.1	-13.0	-29.1	EUT Vert, 25RB/25, Low Ch

CONCLUSION

Pass

Tested By

OUT OF BAND EMISSIONS – LTE BAND 2



EUT:	V700	Work Order:	WTVD0085
Serial Number:	BWL7-000995	Date:	2023-03-14
Customer:	Motorola Solutions, Inc.	Temperature:	23.1°C
Attendees:	Navaid Karimi	Relative Humidity:	31%
Customer Project:	None	Bar. Pressure (PMSL):	1001 mb
Tested By:	Jarrold Brenden	Job Site:	TX02
Power:	4.2VDC via Battery	Configuration:	WTVD0085-2

TEST SPECIFICATIONS

Specification:	Method:
FCC 24.238:2023	ANSI C63.26:2015

TEST PARAMETERS

Run #:	63	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

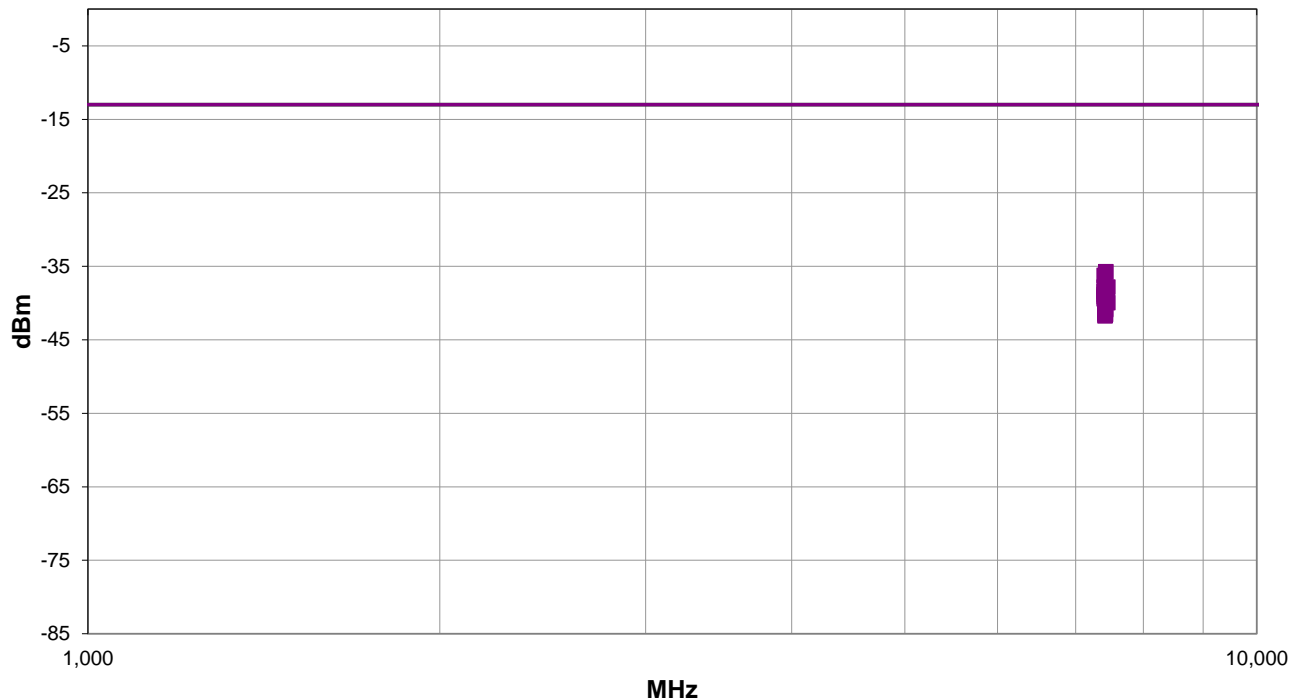
See line comments for EUT orientation, channel, and configuration.

EUT OPERATING MODES

Transmitting LTE, +23 dBm, Band 2, QPSK, 15 MHz Channel Bandwidth, Low Ch, 1857.5 MHz

DEVIATIONS FROM TEST STANDARD

None



Run #: 63

■ PK ◆ AV ● QP

OUT OF BAND EMISSIONS – LTE BAND 2



RESULTS - Run #63

Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
7430.250	2.77	283.0	Horz	PK	267.4E-9	-35.7	-13.0	-22.7	EUT on Side, 1RB/37, Low Ch
7403.200	2.75	290.0	Horz	PK	238.3E-9	-36.2	-13.0	-23.2	EUT on Side, 1RB/0, Low Ch
7403.532	1.39	6.0	Horz	PK	164.9E-9	-37.8	-13.0	-24.8	EUT Vert, 1RB/0, Low Ch
7429.900	3.0	34.9	Vert	PK	164.9E-9	-37.8	-13.0	-24.8	EUT Vert, 1RB/37, Low Ch
7456.551	1.5	243.9	Horz	PK	164.9E-9	-37.8	-13.0	-24.8	EUT on Side, 1RB/74, Low Ch
7403.233	3.99	212.0	Vert	PK	143.6E-9	-38.4	-13.0	-25.4	EUT Vert, 1RB/0, Low Ch
7403.765	1.5	20.0	Vert	PK	131.0E-9	-38.8	-13.0	-25.8	EUT Horz, 1RB/0, Low Ch
7403.483	1.61	152.0	Horz	PK	122.2E-9	-39.1	-13.0	-26.1	EUT Horz, 1RB/0, Low Ch
7403.483	2.52	55.0	Vert	PK	114.1E-9	-39.4	-13.0	-26.4	EUT on Side, 1RB/0, Low Ch
7456.384	3.63	199.0	Vert	PK	101.7E-9	-39.9	-13.0	-26.9	EUT Vert, 1RB/74, Low Ch
7419.023	1.5	189.0	Horz	PK	82.6E-9	-40.8	-13.0	-27.8	EUT on Side, 36RB/19, Low Ch
7424.414	3.15	273.9	Vert	PK	82.6E-9	-40.8	-13.0	-27.8	EUT Vert, 36RB/39, Low Ch
7422.068	1.5	96.0	Horz	PK	80.7E-9	-40.9	-13.0	-27.9	EUT on Side, 36RB/39, Low Ch
7416.033	2.61	99.9	Horz	PK	80.7E-9	-40.9	-13.0	-27.9	EUT on Side, 75RB/0, Low Ch
7416.649	1.5	189.0	Horz	PK	72.0E-9	-41.4	-13.0	-28.4	EUT on Side, 36RB/0, Low Ch
7422.218	3.23	159.0	Vert	PK	70.3E-9	-41.5	-13.0	-28.5	EUT Vert, 36RB/19, Low Ch
7420.193	1.5	99.0	Vert	PK	68.7E-9	-41.6	-13.0	-28.6	EUT Vert, 75RB/0, Low Ch
7417.314	1.5	195.9	Vert	PK	67.2E-9	-41.7	-13.0	-28.7	EUT Vert, 36RB/0, Low Ch

CONCLUSION

Pass

Tested By

OUT OF BAND EMISSIONS – LTE BAND 2



EUT:	V700	Work Order:	WTVD0085
Serial Number:	BWL7-000995	Date:	2023-03-14
Customer:	Motorola Solutions, Inc.	Temperature:	23.1°C
Attendees:	Navaid Karimi	Relative Humidity:	31%
Customer Project:	None	Bar. Pressure (PMSL):	1001 mb
Tested By:	Jarrod Brenden	Job Site:	TX02
Power:	4.2VDC via Battery	Configuration:	WTVD0085-2

TEST SPECIFICATIONS

Specification:	Method:
FCC 24.238:2023	ANSI C63.26:2015

TEST PARAMETERS

Run #:	75	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

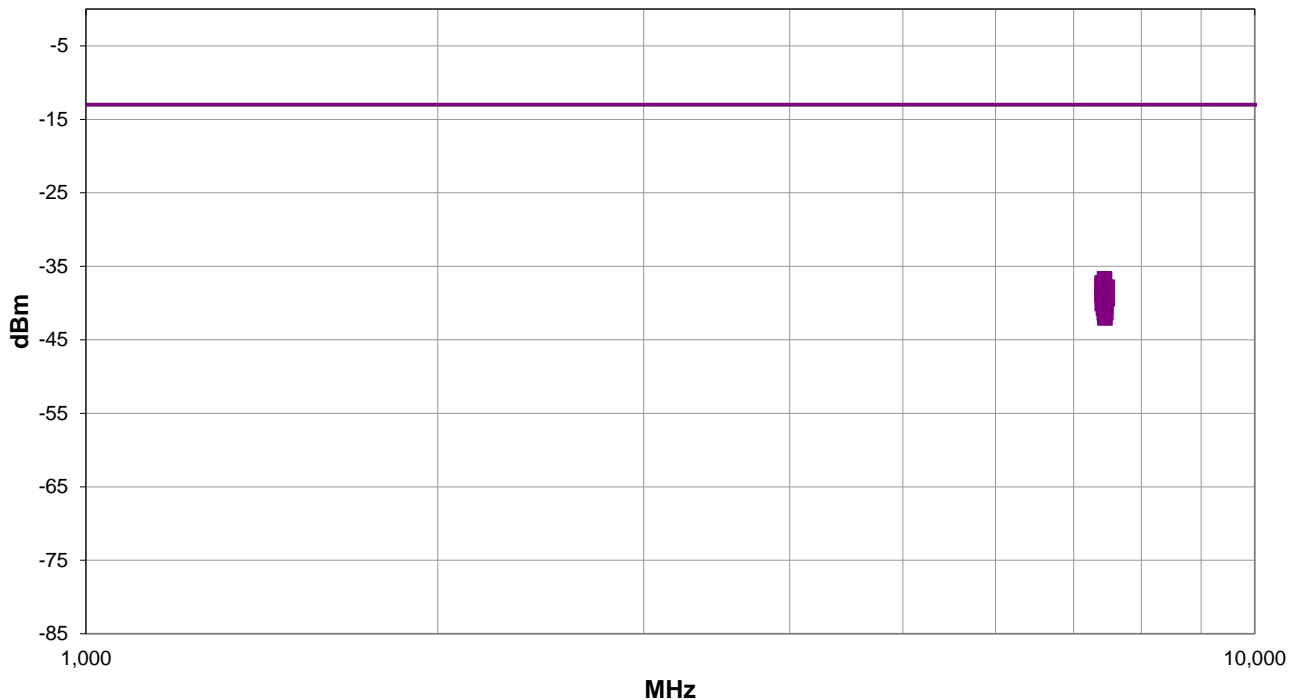
See line comments for EUT orientation, channel, and configuration.

EUT OPERATING MODES

Transmitting LTE, +23 dBm, Band 2, QPSK, 20 MHz Channel Bandwidth, Low Ch, 1860.0 MHz

DEVIATIONS FROM TEST STANDARD

None



Run #: 75

■ PK ◆ AV ● QP

OUT OF BAND EMISSIONS – LTE BAND 2



RESULTS - Run #75

Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
7439.800	3.01	42.0	Vert	PK	212.4E-9	-36.7	-13.0	-23.7	EUT Horz, 1RB/49, Low Ch
7404.267	2.58	1.0	Vert	PK	189.3E-9	-37.2	-13.0	-24.2	EUT Horz, 1RB/0, Low Ch
7404.400	3.01	32.0	Vert	PK	172.6E-9	-37.6	-13.0	-24.6	EUT Vert, 1RB/0, Low Ch
7475.684	2.58	50.0	Vert	PK	164.9E-9	-37.8	-13.0	-24.8	EUT Horz, 1RB/99, Low Ch
7404.816	1.38	6.0	Horz	PK	157.4E-9	-38.0	-13.0	-25.0	EUT Vert, 1RB/0, Low Ch
7439.667	2.72	60.0	Horz	PK	153.9E-9	-38.1	-13.0	-25.1	EUT Vert, 1RB/49, Low Ch
7404.300	2.61	3.9	Horz	PK	131.0E-9	-38.8	-13.0	-25.8	EUT Horz, 1RB/0, Low Ch
7404.417	1.6	242.0	Horz	PK	131.0E-9	-38.8	-13.0	-25.8	EUT on Side, 1RB/0, Low Ch
7475.834	1.51	91.0	Horz	PK	114.1E-9	-39.4	-13.0	-26.4	EUT Vert, 1RB/99, Low Ch
7404.250	3.1	15.0	Vert	PK	99.3E-9	-40.0	-13.0	-27.0	EUT on Side, 1RB/0, Low Ch
7439.601	3.5	33.0	Vert	PK	99.3E-9	-40.0	-13.0	-27.0	EUT Horz, 50RB/25, Low Ch
7421.687	1.87	360.0	Vert	PK	94.9E-9	-40.2	-13.0	-27.2	EUT Horz, 50RB/0, Low Ch
7457.687	1.74	4.9	Vert	PK	88.5E-9	-40.5	-13.0	-27.5	EUT Horz, 50RB/50, Low Ch
7421.754	2.33	58.9	Horz	PK	84.6E-9	-40.7	-13.0	-27.7	EUT Vert, 50RB/0, Low Ch
7439.085	1.5	93.9	Horz	PK	73.6E-9	-41.3	-13.0	-28.3	EUT Vert, 50RB/25, Low Ch
7458.502	2.96	325.0	Horz	PK	73.6E-9	-41.3	-13.0	-28.3	EUT Vert, 50RB/50, Low Ch
7439.351	1.5	39.0	Vert	PK	72.0E-9	-41.4	-13.0	-28.4	EUT Horz, 100RB/0, Low Ch
7444.717	1.5	39.9	Horz	PK	62.7E-9	-42.0	-13.0	-29.0	EUT Vert, 100RB/0, Low Ch

CONCLUSION

Pass

Tested By

OUT OF BAND EMISSIONS – LTE BAND 2



EUT:	V700	Work Order:	WTVD0085
Serial Number:	BWL7-000995	Date:	2023-03-17
Customer:	Motorola Solutions, Inc.	Temperature:	21.3°C
Attendees:	Navaid Karimi	Relative Humidity:	26.7%
Customer Project:	None	Bar. Pressure (PMSL):	998 mb
Tested By:	Jarrod Brenden	Job Site:	TX02
Power:	4.2VDC via Battery	Configuration:	WTVD0085-2

TEST SPECIFICATIONS

Specification:	Method:
FCC 24.238:2023	ANSI C63.26:2015

TEST PARAMETERS

Run #:	153	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

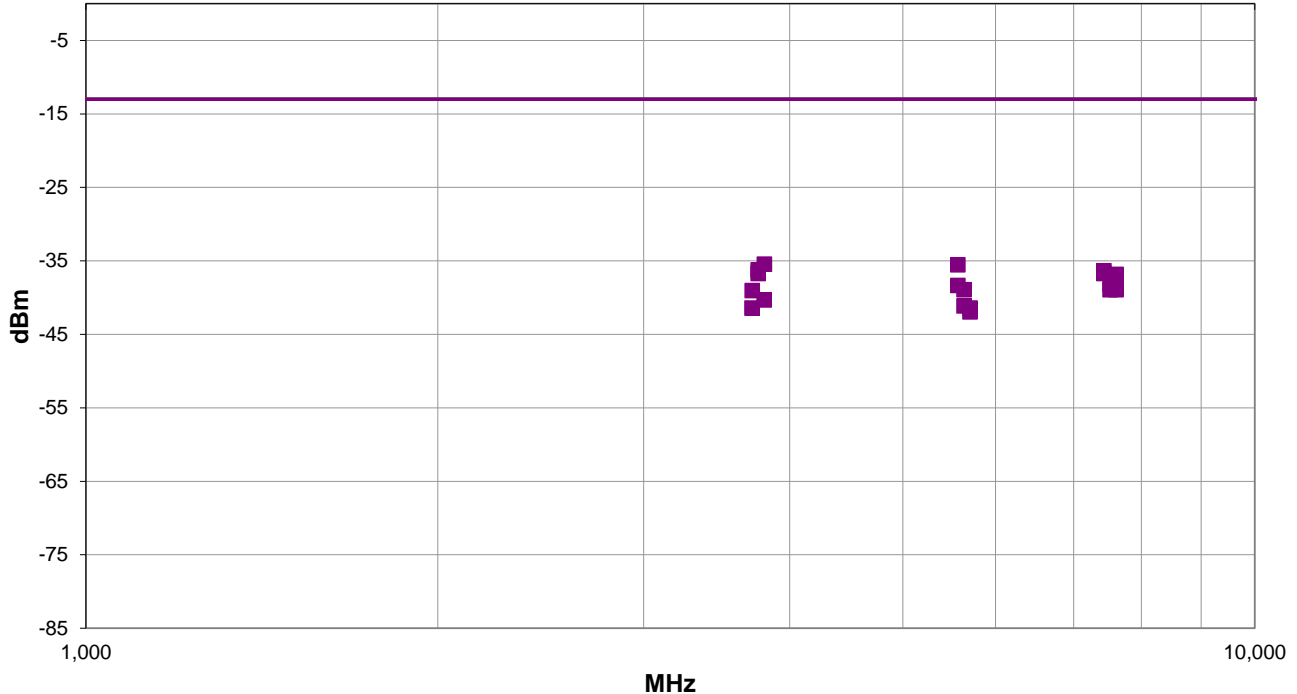
Harmonics measurements based on worst case observed emissions by receive polarity by channel bandwidths and modulations. See line comments for EUT orientation, channel bandwidth, modulation, configuration, and channel.

EUT OPERATING MODES

Transmitting LTE, +23 dBm, Band 2

DEVIATIONS FROM TEST STANDARD

None



Run #: 153

■ PK ◆ AV ● QP

OUT OF BAND EMISSIONS – LTE BAND 2



RESULTS - Run #153

Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
3805.125	3.4	162.0	Vert	PK	286.5E-9	-35.4	-13.0	-22.4	EUT Vert, 15 MHz BW, 16QAM, 1RB/37, High Ch
5572.348	2.7	70.9	Horz	PK	280.0E-9	-35.5	-13.0	-22.5	EUT on Side, 15 MHz BW, QPSK, 1RB/37, Low Ch
3759.967	3.4	153.9	Vert	PK	238.3E-9	-36.2	-13.0	-23.2	EUT Vert, 15 MHz BW, 16QAM, 1RB/37, Mid Ch
7430.116	1.5	243.0	Horz	PK	232.9E-9	-36.3	-13.0	-23.3	EUT on Side, 15 MHz BW, 16QAM, 1RB/37, Low Ch
3760.191	3.5	165.9	Horz	PK	212.4E-9	-36.7	-13.0	-23.7	EUT on Side, 15 MHz BW, QPSK, 1RB/37, Mid Ch
7430.033	3.0	31.0	Vert	PK	212.4E-9	-36.7	-13.0	-23.7	EUT Vert, 15 MHz BW, 16QAM, 1RB/37, Low Ch
7610.000	2.7	0.0	Vert	PK	207.5E-9	-36.8	-13.0	-23.8	EUT Vert, 15 MHz BW, 16QAM, 1RB/37, High Ch
7519.651	1.5	10.9	Vert	PK	153.9E-9	-38.1	-13.0	-25.1	EUT Vert, 15 MHz BW, 16QAM, 1RB/37, Mid Ch
5572.414	1.7	129.9	Vert	PK	146.9E-9	-38.3	-13.0	-25.3	EUT Vert, 15 MHz BW, 16QAM, 1RB/37, Low Ch
7519.975	1.5	4.9	Horz	PK	128.0E-9	-38.9	-13.0	-25.9	EUT on Side, 15 MHz BW, QPSK, 1RB/37, Mid Ch
7609.842	2.6	8.0	Horz	PK	128.0E-9	-38.9	-13.0	-25.9	EUT on Side, 15 MHz BW, QPSK, 1RB/37, High Ch
5640.050	2.5	73.0	Vert	PK	128.0E-9	-38.9	-13.0	-25.9	EUT Vert, 15 MHz BW, 16QAM, 1RB/37, Mid Ch
3714.982	3.4	333.0	Horz	PK	125.1E-9	-39.0	-13.0	-26.0	EUT on Side, 15 MHz BW, QPSK, 1RB/37, Low Ch
3804.992	1.9	220.9	Horz	PK	92.7E-9	-40.3	-13.0	-27.3	EUT on Side, 15 MHz BW, QPSK, 1RB/37, High Ch
5639.992	1.6	129.0	Horz	PK	77.1E-9	-41.1	-13.0	-28.1	EUT on Side, 15 MHz BW, QPSK, 1RB/37, Mid Ch
5707.492	1.5	133.0	Horz	PK	72.0E-9	-41.4	-13.0	-28.4	EUT on Side, 15 MHz BW, QPSK, 1RB/37, High Ch
3714.948	1.5	123.9	Vert	PK	72.0E-9	-41.4	-13.0	-28.4	EUT Vert, 15 MHz BW, 16QAM, 1RB/37, Low Ch
5707.558	1.5	134.0	Vert	PK	64.1E-9	-41.9	-13.0	-28.9	EUT Vert, 15 MHz BW, 16QAM, 1RB/37, High Ch

CONCLUSION

Pass

Tested By

OUT OF BAND EMISSIONS – LTE BAND 4



TEST DESCRIPTION

At an approved test site, the transmitter was placed on a remotely controlled turntable, and the measurement antenna was placed 3 meters from the transmitter. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axes. The turntable azimuth was varied to maximize the level of spurious emissions. The height of the measurement antenna was also varied from 1 to 4 meters. A preamp and high pass filter (and notch filter) were used for this test in order to provide sufficient measurement sensitivity. The amplitude and frequency of the highest emissions was noted.

The transmitter was then replaced with a ½ wave dipole that was successively tuned to each of the highest spurious emissions for emissions below 1 GHz, and a horn antenna for emissions above 1 GHz. A signal generator was connected to the dipole (horn antenna for frequencies above 1 GHz), and its output was adjusted to match the level previously noted for each frequency. The output of the signal generator was recorded, and by factoring in the cable loss to the antenna and its gain, the power (dBm) was determined for each radiated spurious emission.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Receiver	Rohde & Schwarz	ESR26	ARQ	2022-05-02	2023-05-02
Antenna - Double Ridge	ETS Lindgren	3115	AJL	2022-10-21	2024-10-21
Amplifier - Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	PAJ	2022-04-19	2023-04-19
Cable	Northwest EMC	1-8.2 GHz	TXC	2022-04-19	2023-04-19
Antenna - Standard Gain	ETS Lindgren	3160-07	AJF	NCR	NCR
Amplifier - Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	PAK	2022-09-09	2023-09-09
Cable	Northwest EMC	8-18GHz	TXD	2022-04-12	2023-04-12
Antenna - Standard Gain	ETS Lindgren	3160-08	AJG	NCR	NCR
Amplifier - Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	PAL	2022-09-09	2023-09-09
Antenna - Double Ridge	A.H. Systems, Inc.	SAS-574	AXW	2022-09-09	2024-09-09
Amplifier - Pre-Amplifier	Miteq	JSDWK42-18004000-60-5P	PAM	2022-09-14	2023-09-14
Cable	Northwest EMC	18-40GHz	TXE	2022-09-09	2023-09-09
Antenna - Biconilog	ETS Lindgren	3143B	AYF	2022-09-02	2024-09-02
Cable	Northwest EMC	RE 9kHz - 1GHz	TXB	2022-06-10	2023-06-10
Amplifier - Pre-Amplifier	Fairview Microwave	FMAM63001	PAS	2022-04-19	2023-04-19
Filter - Low Pass	Micro-Tronics	LPM50004	HHV	2022-07-22	2023-07-22

OUT OF BAND EMISSIONS – LTE BAND 4



MEASUREMENT UNCERTAINTY

Description		
Expanded k=2	+ 5.1	-5.1

FREQUENCY RANGE INVESTIGATED

30 MHz TO 26 GHz

POWER INVESTIGATED

4.2VDC via Battery

CONFIGURATIONS INVESTIGATED

WTVD0085-2

MODES INVESTIGATED

Transmitting LTE, +23 dBm, Band 4, 16QAM, 5 MHz Channel Bandwidth, Mid Ch, 1732.5 MHz
Transmitting LTE, +23 dBm, Band 4, QPSK, 1.4 MHz Channel Bandwidth, Low Ch, 1710.7 MHz
Transmitting LTE, +23 dBm, Band 4, QPSK, 1.4 MHz Channel Bandwidth, Mid Ch, 1732.5 MHz
Transmitting LTE, +23 dBm, Band 4, QPSK, 1.4 MHz Channel Bandwidth, High Ch, 1754.3 MHz
Transmitting LTE, +23 dBm, Band 4, QPSK, 10 MHz Channel Bandwidth, Mid Ch, 1732.5 MHz
Transmitting LTE, +23 dBm, Band 4, QPSK, 15 MHz Channel Bandwidth, Mid Ch, 1732.5 MHz
Transmitting LTE, +23 dBm, Band 4, QPSK, 20 MHz Channel Bandwidth, High Ch, 1745.0 MHz
Transmitting LTE, +23 dBm, Band 4, QPSK, 3 MHz Channel Bandwidth, Mid Ch, 1732.5 MHz
Transmitting LTE, +23 dBm, Band 4, QPSK, 5 MHz Channel Bandwidth, Low Ch, 1712.5 MHz
Transmitting LTE, +23 dBm, Band 4, QPSK, 5 MHz Channel Bandwidth, Mid Ch, 1732.5 MHz
Transmitting LTE, +23 dBm, Band 4, QPSK, 5 MHz Channel Bandwidth, High Ch, 1752.5 MHz

OUT OF BAND EMISSIONS – LTE BAND 4



EUT:	V700	Work Order:	WTVD0085
Serial Number:	BWL7-000995	Date:	2023-03-15
Customer:	Motorola Solutions, Inc.	Temperature:	22.2°C
Attendees:	Navaid Karimi	Relative Humidity:	27.2%
Customer Project:	None	Bar. Pressure (PMSL):	999.1 mb
Tested By:	Jarrold Brenden	Job Site:	TX02
Power:	4.2VDC via Battery	Configuration:	WTVD0085-2

TEST SPECIFICATIONS

Specification:	Method:
FCC 27.53:2023	ANSI C63.26:2015

TEST PARAMETERS

Run #:	89	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

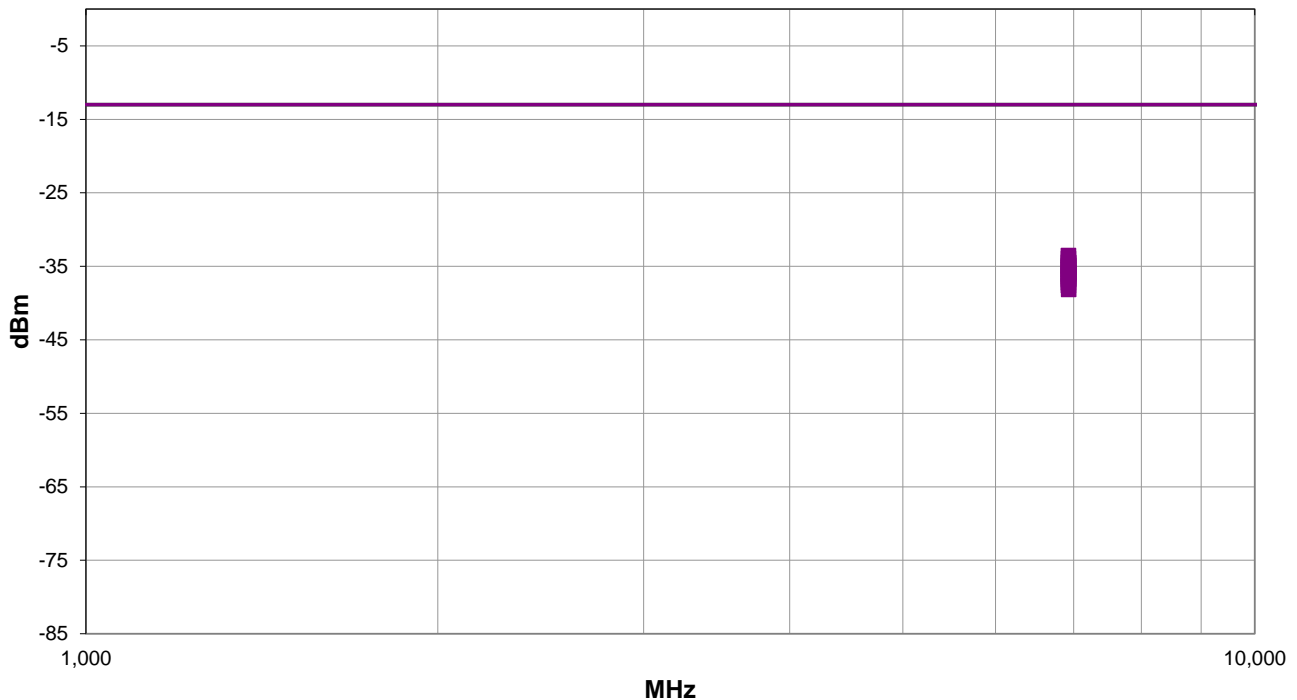
See line comments for EUT orientation, configuration, and channel.

EUT OPERATING MODES

Transmitting LTE, +23 dBm, Band 4, QPSK, 1.4 MHz Channel Bandwidth, Mid Ch, 1732.5 MHz

DEVIATIONS FROM TEST STANDARD

None



Run #: 89

■ PK ◆ AV ● QP

OUT OF BAND EMISSIONS – LTE BAND 4



RESULTS - Run #89

Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
6928.150	2.28	8.0	Vert	PK	443.7E-9	-33.5	-13.0	-20.5	EUT on Side, 1RB/0, Mid Ch
6928.067	2.92	73.0	Horz	PK	404.7E-9	-33.9	-13.0	-20.9	EUT Vert, 1RB/0, Mid Ch
6928.950	3.63	57.9	Vert	PK	360.7E-9	-34.4	-13.0	-21.4	EUT on Side, 3RB/0, Mid Ch
6931.166	2.1	69.0	Vert	PK	352.5E-9	-34.5	-13.0	-21.5	EUT on Side, 6RB/0, Mid Ch
6930.750	2.91	307.0	Horz	PK	328.9E-9	-34.8	-13.0	-21.8	EUT Vert, 6RB/0, Mid Ch
6928.200	2.91	117.0	Horz	PK	321.5E-9	-34.9	-13.0	-21.9	EUT on Side, 1RB/0, Mid Ch
6929.200	3.16	297.0	Horz	PK	307.0E-9	-35.1	-13.0	-22.1	EUT Vert, 3RB/0, Mid Ch
6927.983	3.61	156.0	Horz	PK	286.5E-9	-35.4	-13.0	-22.4	EUT Horz, 1RB/0, Mid Ch
6930.950	2.81	138.0	Horz	PK	261.3E-9	-35.8	-13.0	-22.8	EUT Vert, 3RB/3, Mid Ch
6931.433	3.94	69.9	Vert	PK	255.3E-9	-35.9	-13.0	-22.9	EUT on Side, 3RB/3, Mid Ch
6928.466	1.71	330.0	Vert	PK	243.8E-9	-36.1	-13.0	-23.1	EUT Horz, 1RB/0, Mid Ch
6929.982	3.93	70.9	Vert	PK	243.8E-9	-36.1	-13.0	-23.1	EUT on Side, 3RB/1, Mid Ch
6929.532	1.93	72.0	Vert	PK	227.6E-9	-36.4	-13.0	-23.4	EUT on Side, 1RB/2, Mid Ch
6932.050	2.74	315.0	Horz	PK	212.4E-9	-36.7	-13.0	-23.7	EUT Vert, 1RB/5, Mid Ch
6929.599	1.7	238.9	Horz	PK	207.5E-9	-36.8	-13.0	-23.8	EUT Vert, 3RB/1, Mid Ch
6929.499	1.5	243.9	Horz	PK	189.3E-9	-37.2	-13.0	-24.2	EUT Vert, 1RB/2, Mid Ch
6928.266	1.39	189.0	Vert	PK	172.6E-9	-37.6	-13.0	-24.6	EUT Vert, 1RB/0, Mid Ch
6931.817	1.64	85.0	Vert	PK	153.9E-9	-38.1	-13.0	-25.1	EUT on Side, 1RB/5, Mid Ch

CONCLUSION

Pass

Tested By

OUT OF BAND EMISSIONS – LTE BAND 4



EUT:	V700	Work Order:	WTVD0085
Serial Number:	BWL7-000995	Date:	2023-03-15
Customer:	Motorola Solutions, Inc.	Temperature:	22.2°C
Attendees:	Navaid Karimi	Relative Humidity:	27.2%
Customer Project:	None	Bar. Pressure (PMSL):	999.1 mb
Tested By:	Jarrod Brenden	Job Site:	TX02
Power:	4.2VDC via Battery	Configuration:	WTVD0085-2

TEST SPECIFICATIONS

Specification:	Method:
FCC 27.53:2023	ANSI C63.26:2015

TEST PARAMETERS

Run #:	101	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

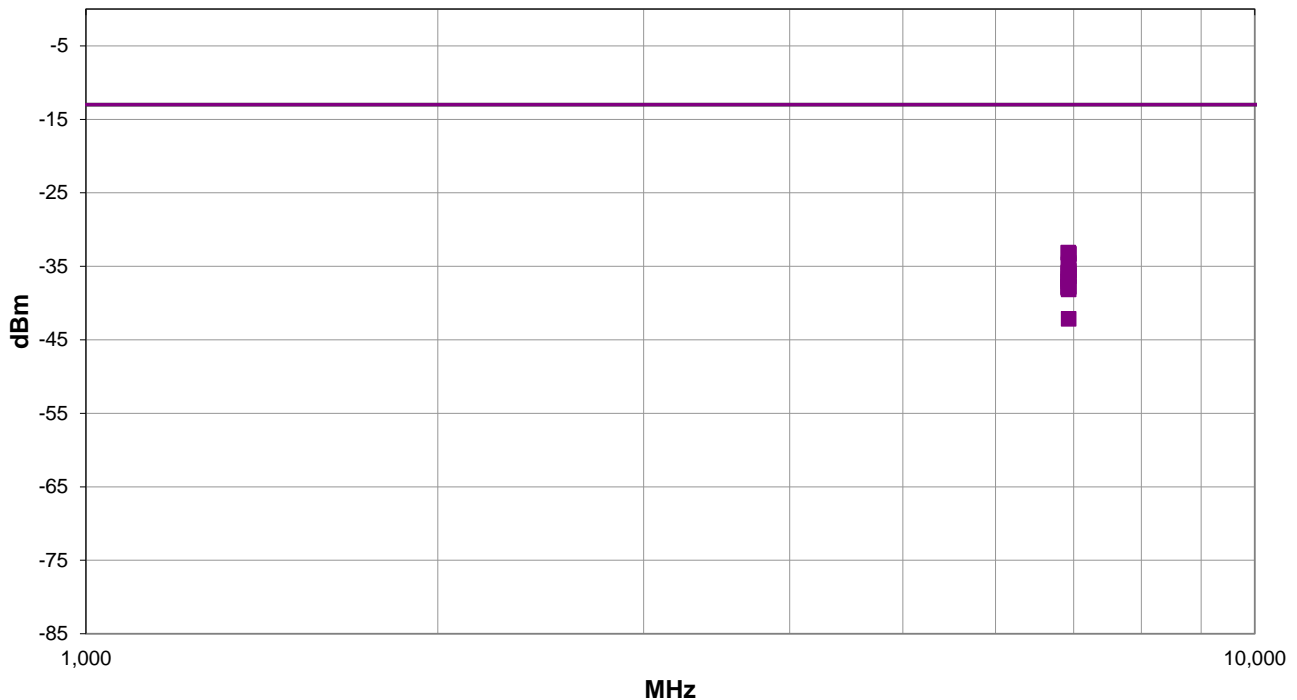
See line comments for EUT orientation, configuration, and channel.

EUT OPERATING MODES

Transmitting LTE, +23 dBm, Band 4, QPSK, 3 MHz Channel Bandwidth, Mid Ch, 1732.5 MHz

DEVIATIONS FROM TEST STANDARD

None



Run #: 101

■ PK ◆ AV ● QP

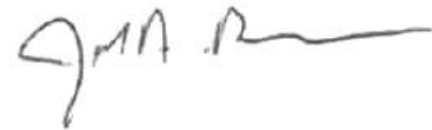
OUT OF BAND EMISSIONS – LTE BAND 4

RESULTS - Run #101

Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
6924.967	2.83	63.9	Horz	PK	486.5E-9	-33.1	-13.0	-20.1	EUT Vert, 1RB/0, Mid Ch
6930.050	2.92	64.9	Horz	PK	475.5E-9	-33.2	-13.0	-20.2	EUT Vert, 1RB/7, Mid Ch
6935.101	2.7	62.0	Horz	PK	464.6E-9	-33.3	-13.0	-20.3	EUT Vert, 1RB14, Mid Ch
6930.116	3.24	69.9	Vert	PK	352.5E-9	-34.5	-13.0	-21.5	EUT Horz, 1RB/7, Mid Ch
6927.451	2.72	62.0	Horz	PK	336.6E-9	-34.7	-13.0	-21.7	EUT Vert, 8RB/0, Mid Ch
6934.869	2.05	31.0	Vert	PK	273.6E-9	-35.6	-13.0	-22.6	EUT Horz, 1RB/14, Mid Ch
6924.784	1.85	144.0	Vert	PK	261.3E-9	-35.8	-13.0	-22.8	EUT Horz, 1RB/0, Mid Ch
6930.413	2.92	63.9	Horz	PK	249.5E-9	-36.0	-13.0	-23.0	EUT Vert, 8RB/4, Mid Ch
6927.301	3.39	159.9	Vert	PK	243.8E-9	-36.1	-13.0	-23.1	EUT Horz, 8RB/0, Mid Ch
6933.431	2.27	138.0	Horz	PK	232.9E-9	-36.3	-13.0	-23.3	EUT Vert, 8RB/7, Mid Ch
6924.917	3.13	120.0	Horz	PK	212.4E-9	-36.7	-13.0	-23.7	EUT Horz, 1RB/0, Mid Ch
6925.100	1.68	238.9	Horz	PK	198.2E-9	-37.0	-13.0	-24.0	EUT on Side, 1RB/0, Mid Ch
6930.113	2.27	151.0	Horz	PK	168.7E-9	-37.7	-13.0	-24.7	EUT Vert, 15RB/0, Mid Ch
6925.166	1.5	339.0	Vert	PK	164.9E-9	-37.8	-13.0	-24.8	EUT on Side, 1RB/0, Mid Ch
6930.030	1.79	27.0	Vert	PK	164.9E-9	-37.8	-13.0	-24.8	EUT Horz, 15RB/0, Mid Ch
6924.983	1.71	154.9	Vert	PK	161.1E-9	-37.9	-13.0	-24.9	EUT Vert, 1RB/0, Mid Ch
6930.546	1.71	14.0	Vert	PK	153.9E-9	-38.1	-13.0	-25.1	EUT Horz, 8RB/4, Mid Ch
6929.970	1.5	151.0	Vert	PK	61.3E-9	-42.1	-13.0	-29.1	EUT Horz, 8RB/7, Mid Ch

CONCLUSION

Pass



Tested By

OUT OF BAND EMISSIONS – LTE BAND 4



EUT:	V700	Work Order:	WTVD0085
Serial Number:	BWL7-000995	Date:	2023-03-15
Customer:	Motorola Solutions, Inc.	Temperature:	22.2°C
Attendees:	Navaid Karimi	Relative Humidity:	27.2%
Customer Project:	None	Bar. Pressure (PMSL):	999.1 mb
Tested By:	Jarrold Brenden	Job Site:	TX02
Power:	4.2VDC via Battery	Configuration:	WTVD0085-2

TEST SPECIFICATIONS

Specification:	Method:
FCC 27.53:2023	ANSI C63.26:2015

TEST PARAMETERS

Run #:	113	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

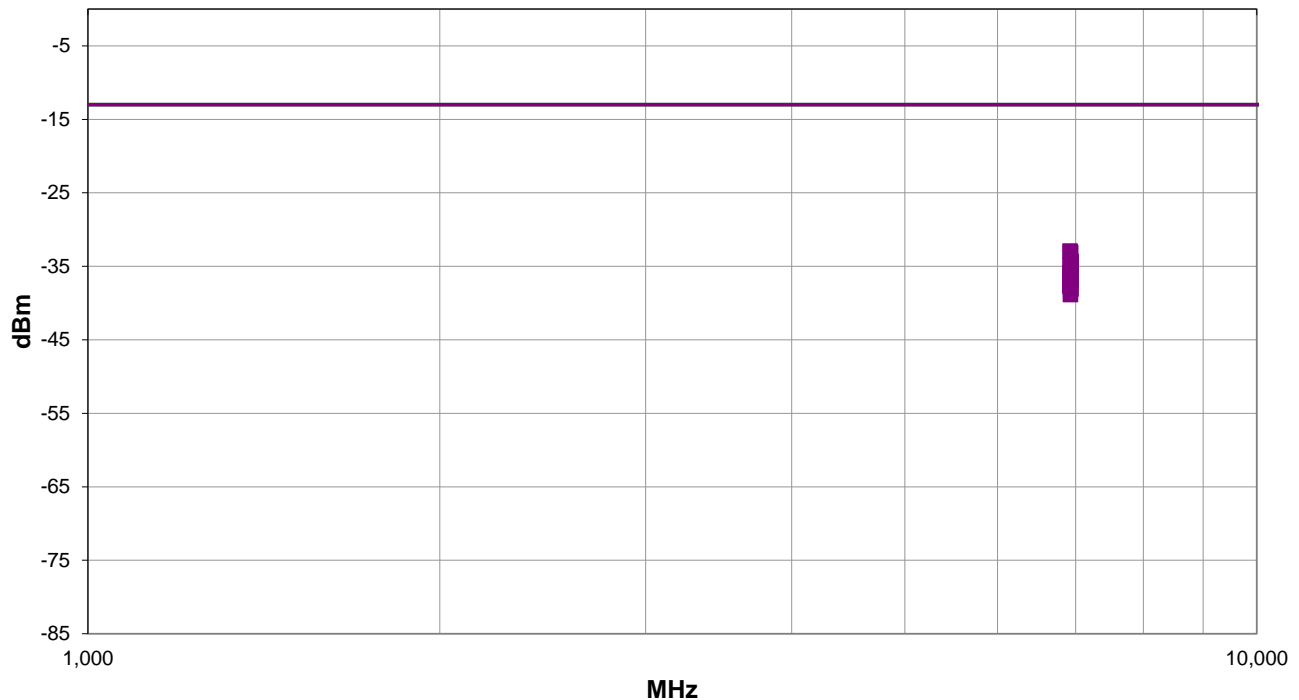
See line comments for EUT orientation, configuration, and channel.

EUT OPERATING MODES

Transmitting LTE, +23 dBm, Band 4, QPSK, 5 MHz Channel Bandwidth, Mid Ch, 1732.5 MHz

DEVIATIONS FROM TEST STANDARD

None



Run #: 113

■ PK ◆ AV ● QP

OUT OF BAND EMISSIONS – LTE BAND 4



RESULTS - Run #113

Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
6921.150	2.61	60.0	Horz	PK	509.5E-9	-32.9	-13.0	-19.9	EUT Vert, 1RB/0, Mid Ch
6929.987	2.72	69.9	Horz	PK	486.5E-9	-33.1	-13.0	-20.1	EUT Vert, 1RB/12, Mid Ch
6938.286	2.83	66.0	Horz	PK	369.1E-9	-34.3	-13.0	-21.3	EUT Vert, 1RB/24, Mid Ch
6921.433	3.0	69.9	Vert	PK	328.9E-9	-34.8	-13.0	-21.8	EUT on Side, 1RB/0, Mid Ch
6938.519	3.35	49.0	Vert	PK	321.5E-9	-34.9	-13.0	-21.9	EUT on Side, 1RB/24, Mid Ch
6921.349	1.5	315.9	Horz	PK	261.3E-9	-35.8	-13.0	-22.8	EUT on Side, 1RB/0, Mid Ch
6934.619	2.93	63.9	Horz	PK	255.3E-9	-35.9	-13.0	-22.9	EUT Vert, 12RB/13, Mid Ch
6930.053	1.74	70.9	Vert	PK	249.5E-9	-36.0	-13.0	-23.0	EUT on Side, 1RB/12 Mid Ch
6929.631	3.36	50.0	Vert	PK	217.3E-9	-36.6	-13.0	-23.6	EUT on Side, 12RB/6, Mid Ch
6929.631	2.41	64.9	Horz	PK	212.4E-9	-36.7	-13.0	-23.7	EUT Vert, 12RB/6, Mid Ch
6921.433	3.03	27.0	Vert	PK	207.5E-9	-36.8	-13.0	-23.8	EUT Horz, 1RB/0, Mid Ch
6934.918	3.0	54.0	Vert	PK	198.2E-9	-37.0	-13.0	-24.0	EUT on Side, 12RB/13, Mid Ch
6921.399	3.11	110.0	Horz	PK	180.8E-9	-37.4	-13.0	-24.4	EUT Horz, 1RB/0, Mid Ch
6921.283	1.5	152.0	Vert	PK	172.6E-9	-37.6	-13.0	-24.6	EUT Vert, 1RB/0, Mid Ch
6925.101	3.0	42.0	Vert	PK	168.7E-9	-37.7	-13.0	-24.7	EUT on Side, 12RB/0, Mid Ch
6934.775	2.93	63.0	Horz	PK	157.4E-9	-38.0	-13.0	-25.0	EUT Vert, 25RB/0, Mid Ch
6929.950	3.12	54.0	Vert	PK	153.9E-9	-38.1	-13.0	-25.1	EUT on Side, 25RB/0, Mid Ch
6927.864	2.1	129.0	Horz	PK	131.0E-9	-38.8	-13.0	-25.8	EUT Vert, 12RB/0, Mid Ch

CONCLUSION

Pass

Tested By

OUT OF BAND EMISSIONS – LTE BAND 4



EUT:	V700	Work Order:	WTVD0085
Serial Number:	BWL7-000995	Date:	2023-03-16
Customer:	Motorola Solutions, Inc.	Temperature:	22.2°C
Attendees:	Navaid Karimi	Relative Humidity:	27.2%
Customer Project:	None	Bar. Pressure (PMSL):	999.1 mb
Tested By:	Jarrod Brenden	Job Site:	TX02
Power:	4.2VDC via Battery	Configuration:	WTVD0085-2

TEST SPECIFICATIONS

Specification:	Method:
FCC 27.53:2023	ANSI C63.26:2015

TEST PARAMETERS

Run #:	125	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

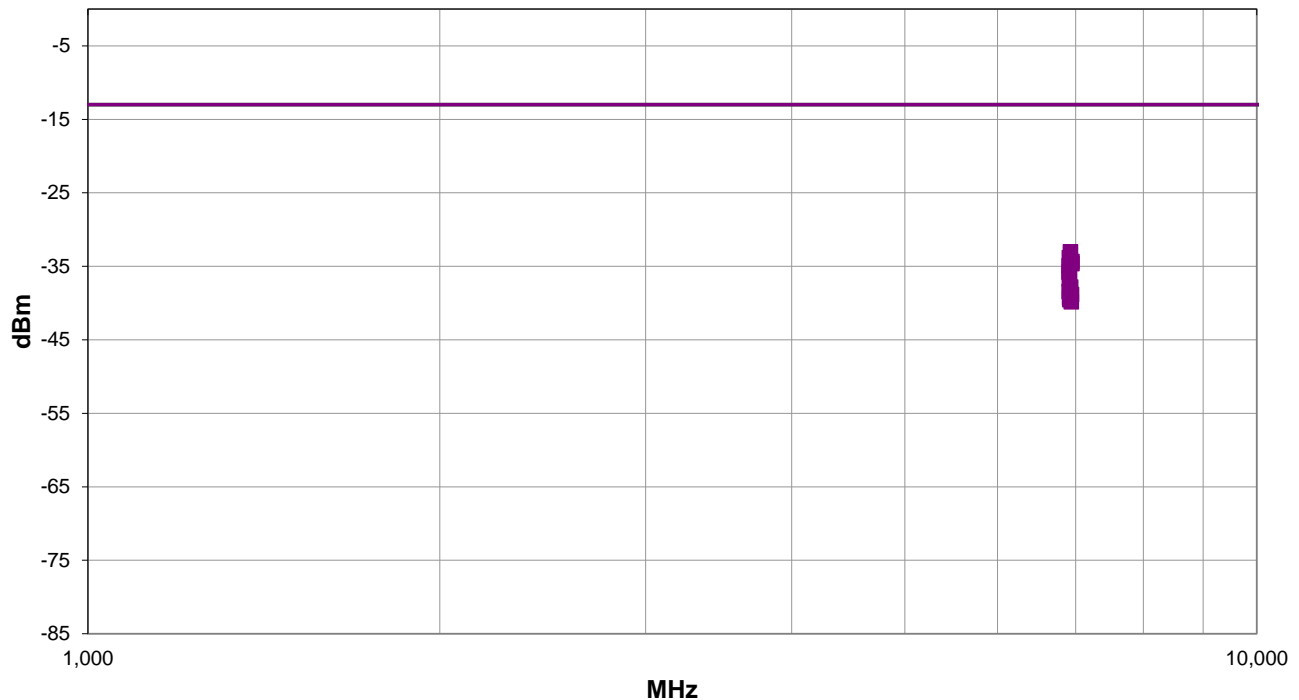
See line comments for EUT orientation, configuration, and channel.

EUT OPERATING MODES

Transmitting LTE, +23 dBm, Band 4, QPSK, 10 MHz Channel Bandwidth, Mid Ch, 1732.5 MHz

DEVIATIONS FROM TEST STANDARD

None



Run #: 125

■ PK ◆ AV ● QP

OUT OF BAND EMISSIONS – LTE BAND 4



RESULTS - Run #125

Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
6929.582	2.95	63.0	Horz	PK	497.9E-9	-33.0	-13.0	-20.0	EUT Vert, 1RB/24, Mid Ch
6912.500	2.95	73.0	Horz	PK	414.1E-9	-33.8	-13.0	-20.8	EUT Vert, 1RB/0, Mid Ch
6947.501	3.0	44.0	Vert	PK	369.1E-9	-34.3	-13.0	-21.3	EU on Side, 1RB/49, Mid Ch
6929.632	3.36	48.0	Vert	PK	360.7E-9	-34.4	-13.0	-21.4	EUT on Side, 1RB/24, Mid Ch
6947.617	2.8	60.0	Horz	PK	344.4E-9	-34.6	-13.0	-21.6	EUT Vert, 1RB/49, Mid Ch
6912.267	2.11	68.0	Vert	PK	321.5E-9	-34.9	-13.0	-21.9	EUT on Side, 1RB/0, Mid Ch
6912.400	1.77	159.9	Vert	PK	267.4E-9	-35.7	-13.0	-22.7	EUT Horz, 1RB/0, Mid Ch
6912.250	3.01	304.9	Horz	PK	261.3E-9	-35.8	-13.0	-22.8	EUT on Side, 1RB/0, Mid Ch
6912.400	3.63	156.0	Horz	PK	212.4E-9	-36.7	-13.0	-23.7	EUT Horz, 1RB/0, Mid Ch
6930.047	2.83	67.0	Horz	PK	164.9E-9	-37.8	-13.0	-24.8	EUT Vert, 50RB/0, Mid Ch
6912.151	1.5	151.0	Vert	PK	143.6E-9	-38.4	-13.0	-25.4	EUT Vert, 1RB/0, Mid Ch
6929.834	2.21	69.9	Vert	PK	131.0E-9	-38.8	-13.0	-25.8	EUT on Side, 25RB/12, Mid Ch
6943.918	2.62	64.9	Horz	PK	131.0E-9	-38.8	-13.0	-25.8	EUT Vert, 25RB/25, Mid Ch
6934.176	2.9	64.9	Horz	PK	128.0E-9	-38.9	-13.0	-25.9	EUT Vert, 25RB/12, Mid Ch
6917.255	3.06	73.0	Horz	PK	119.4E-9	-39.2	-13.0	-26.2	EUT Vert, 25RB/0, Mid Ch
6929.947	3.0	70.9	Vert	PK	116.7E-9	-39.3	-13.0	-26.3	EUT on Side, 50RB/0, Mid Ch
6920.765	2.22	63.9	Vert	PK	111.5E-9	-39.5	-13.0	-26.5	EUT on Side, 25RB/0, Mid Ch
6938.827	3.5	48.0	Vert	PK	104.0E-9	-39.8	-13.0	-26.8	EUT on Side, 25RB/25, Mid Ch

CONCLUSION

Pass

Tested By

OUT OF BAND EMISSIONS – LTE BAND 4



EUT:	V700	Work Order:	WTVD0085
Serial Number:	BWL7-000995	Date:	2023-03-16
Customer:	Motorola Solutions, Inc.	Temperature:	22.2°C
Attendees:	Navaid Karimi	Relative Humidity:	27.2%
Customer Project:	None	Bar. Pressure (PMSL):	999.1 mb
Tested By:	Jarrold Brenden	Job Site:	TX02
Power:	4.2VDC via Battery	Configuration:	WTVD0085-2

TEST SPECIFICATIONS

Specification:	Method:
FCC 27.53:2023	ANSI C63.26:2015

TEST PARAMETERS

Run #:	137	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

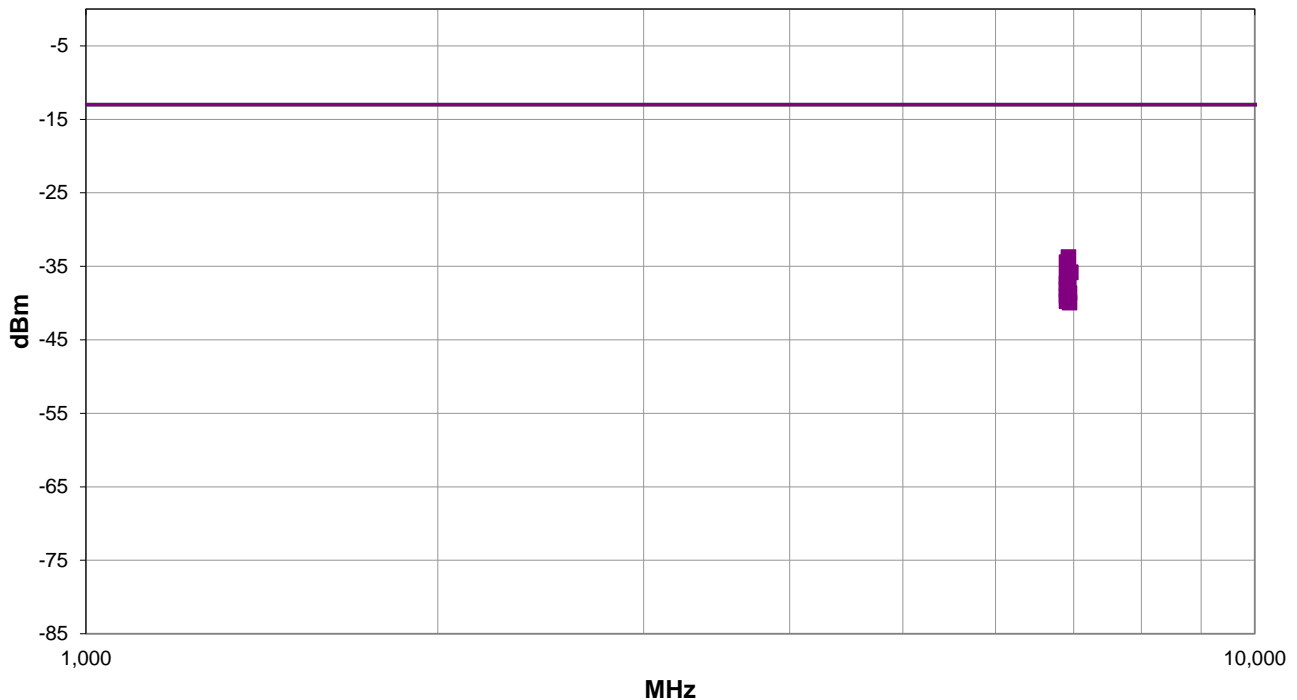
See line comments for EUT orientation, configuration, and channel.

EUT OPERATING MODES

Transmitting LTE, +23 dBm, Band 4, QPSK, 15 MHz Channel Bandwidth, Mid Ch, 1732.5 MHz

DEVIATIONS FROM TEST STANDARD

None



Run #: 137

■ PK ◆ AV ● QP

OUT OF BAND EMISSIONS – LTE BAND 4



RESULTS - Run #137

Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
6929.659	1.62	75.0	Horz	PK	423.8E-9	-33.7	-13.0	-20.7	EUT Vert, 1RB/37, Mid Ch
6903.374	2.97	72.0	Horz	PK	360.7E-9	-34.4	-13.0	-21.4	EUT Vert, 1RB/0, Mid Ch
6956.732	1.76	64.9	Horz	PK	261.3E-9	-35.8	-13.0	-22.8	EUT Vert, 1RB/74, Mid Ch
6956.641	1.84	158.0	Vert	PK	261.3E-9	-35.8	-13.0	-22.8	EUT Horz, 1RB/74, Mid Ch
6903.258	2.81	136.9	Horz	PK	227.6E-9	-36.4	-13.0	-23.4	EUT on Side, 1RB/0, Mid ch
6930.050	1.68	19.0	Vert	PK	202.8E-9	-36.9	-13.0	-23.9	EUT Horz, 1RB/37, Mid Ch
6903.216	1.72	16.9	Vert	PK	185.0E-9	-37.3	-13.0	-24.3	EUT Horz, 1RB/0, Mid Ch
6929.597	2.93	63.9	Horz	PK	176.7E-9	-37.5	-13.0	-24.5	EUT Vert, 36RB/19, Mid Ch
6903.557	1.77	81.0	Vert	PK	153.9E-9	-38.1	-13.0	-25.1	EUT on Side, 1RB/0, Mid Ch
6943.884	3.07	64.9	Horz	PK	137.1E-9	-38.6	-13.0	-25.6	EUT Vert, 36RB/39, Mid Ch
6915.767	2.62	74.0	Horz	PK	131.0E-9	-38.8	-13.0	-25.8	EUT Vert, 36RB/0, Mid Ch
6915.950	2.95	33.0	Vert	PK	131.0E-9	-38.8	-13.0	-25.8	EUT Horz, 36RN/0, Mid Ch
6903.000	1.6	151.0	Vert	PK	125.1E-9	-39.0	-13.0	-26.0	EUT Vert, 1RB/0, Mid Ch
6929.448	2.95	165.9	Vert	PK	125.1E-9	-39.0	-13.0	-26.0	EUT Horz, 36RB/19, Mid Ch
6930.121	2.63	78.0	Horz	PK	116.7E-9	-39.3	-13.0	-26.3	EUT Vert, 75RB/0, Mid Ch
6930.097	1.66	151.0	Vert	PK	108.9E-9	-39.6	-13.0	-26.6	EUT Horz, 75RB/0, Mid Ch
6903.574	1.5	93.0	Horz	PK	106.4E-9	-39.7	-13.0	-26.7	EUT Horz, 1RB/0, Mid Ch
6944.050	1.5	340.9	Vert	PK	101.7E-9	-39.9	-13.0	-26.9	EUT Horz, 36RB/39, Mid Ch

CONCLUSION

Pass

Tested By

OUT OF BAND EMISSIONS – LTE BAND 4



EUT:	V700	Work Order:	WTVD0085
Serial Number:	BWL7-000995	Date:	2023-03-16
Customer:	Motorola Solutions, Inc.	Temperature:	22.2°C
Attendees:	Navaid Karimi	Relative Humidity:	27.2%
Customer Project:	None	Bar. Pressure (PMSL):	999.1 mb
Tested By:	Jarrold Brenden	Job Site:	TX02
Power:	4.2VDC via Battery	Configuration:	WTVD0085-2

TEST SPECIFICATIONS

Specification:	Method:
FCC 27.53:2023	ANSI C63.26:2015

TEST PARAMETERS

Run #:	149	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

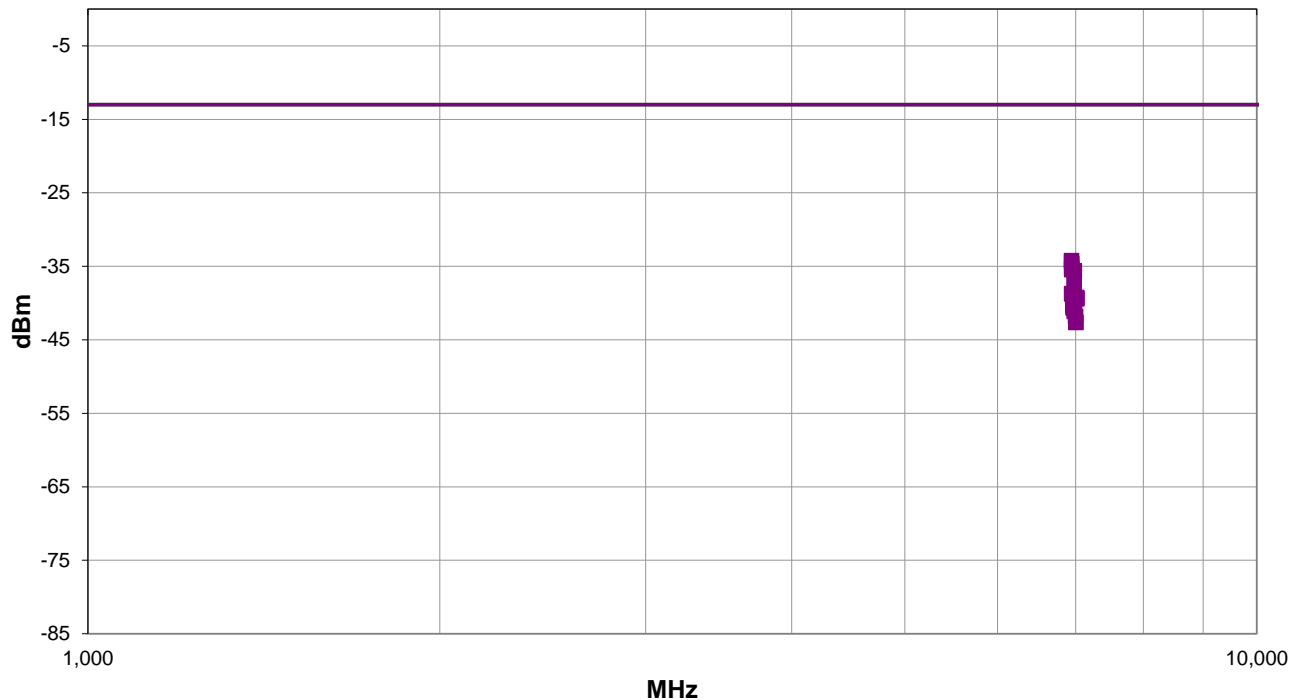
See line comments for EUT orientation, configuration, and channel.

EUT OPERATING MODES

Transmitting LTE, +23 dBm, Band 4, QPSK, 20 MHz Channel Bandwidth, High Ch, 1745.0 MHz

DEVIATIONS FROM TEST STANDARD

None



Run #: 149

■ PK ◆ AV ● QP

OUT OF BAND EMISSIONS – LTE BAND 4



RESULTS - Run #149

Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
6944.201	3.03	64.9	Horz	PK	377.7E-9	-34.2	-13.0	-21.2	EUT Vert, 1RB0, High Ch
6944.426	3.24	45.9	Vert	PK	344.4E-9	-34.6	-13.0	-21.6	EUT on Side, 1RB/0, High Ch
6944.409	3.05	34.9	Vert	PK	300.0E-9	-35.2	-13.0	-22.2	EUT Horz, 1RB/0, High Ch
6944.434	3.01	303.9	Horz	PK	286.5E-9	-35.4	-13.0	-22.4	EUT on Side, 1RB/0, High Ch
6979.676	2.69	73.0	Horz	PK	273.6E-9	-35.6	-13.0	-22.6	EUT Vert, 1RB/49, High Ch
6979.401	1.67	350.0	Vert	PK	189.3E-9	-37.2	-13.0	-24.2	EUT on Side, 1RB/49, High Ch
6944.401	1.49	151.0	Vert	PK	134.0E-9	-38.7	-13.0	-25.7	EUT Vert, 1RB0, High Ch
6944.584	1.5	351.0	Horz	PK	134.0E-9	-38.7	-13.0	-25.7	EUT Horz, 1RB/0, High Ch
7015.317	2.64	63.0	Horz	PK	119.4E-9	-39.2	-13.0	-26.2	EUT Vert, 1RB/99, High Ch
7015.667	3.05	45.9	Vert	PK	114.1E-9	-39.4	-13.0	-26.4	EUT on Side, 1RB/99, High Ch
6980.250	2.81	61.0	Horz	PK	106.4E-9	-39.7	-13.0	-26.7	EUT Vert, 50RB/25, High Ch
6961.847	2.29	134.0	Horz	PK	92.7E-9	-40.3	-13.0	-27.3	EUT Vert, 50RB/0, High Ch
6979.834	3.08	39.9	Vert	PK	88.5E-9	-40.5	-13.0	-27.5	EUT on Side, 100RB/0, High Ch
6962.047	1.5	33.9	Vert	PK	86.5E-9	-40.6	-13.0	-27.6	EUT on Side, 50RB/0, High Ch
6980.233	2.57	60.0	Horz	PK	82.6E-9	-40.8	-13.0	-27.8	EUT Vert, 100RB/0, High Ch
6980.516	1.5	0.0	Vert	PK	77.1E-9	-41.1	-13.0	-28.1	EUT on Side, 50RB/25, High Ch
6998.170	1.5	2.0	Horz	PK	65.6E-9	-41.8	-13.0	-28.8	EUT Vert, 50RB/50, High Ch
7004.542	1.5	87.0	Vert	PK	54.6E-9	-42.6	-13.0	-29.6	EUT on Side, 50RB/50, High Ch

CONCLUSION

Pass

Tested By

OUT OF BAND EMISSIONS – LTE BAND 4



EUT:	V700	Work Order:	WTVD0085
Serial Number:	BWL7-000995	Date:	2023-03-16
Customer:	Motorola Solutions, Inc.	Temperature:	22.2°C
Attendees:	Navaid Karimi	Relative Humidity:	27.2%
Customer Project:	None	Bar. Pressure (PMSL):	999.1 mb
Tested By:	Jarrod Brenden	Job Site:	TX02
Power:	4.2VDC via Battery	Configuration:	WTVD0085-2

TEST SPECIFICATIONS

Specification:	Method:
FCC 27.53:2023	ANSI C63.26:2015

TEST PARAMETERS

Run #:	151	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

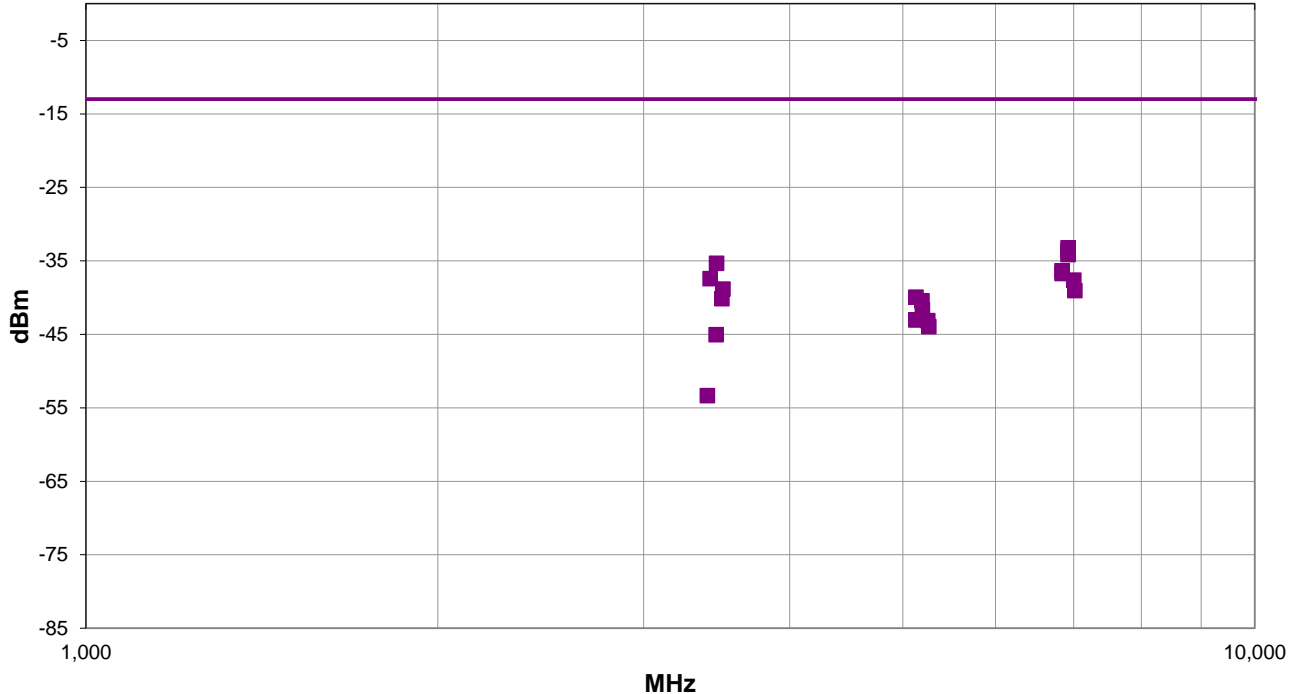
Harmonics measurements based on worst case observed emissions by receive polarity by channel bandwidths and modulations. See line comments for EUT orientation, channel bandwidth, modulation, configuration, and channel.

EUT OPERATING MODES

Transmitting LTE, +23 dBm, Band 4

DEVIATIONS FROM TEST STANDARD

None



Run #: 151

■ PK ◆ AV ● QP

OUT OF BAND EMISSIONS – LTE BAND 4



RESULTS - Run #151

Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
6921.525	2.7	69.0	Horz	PK	475.5E-9	-33.2	-13.0	-20.2	EUT Vert, 5 MHz BW, 16QAM, 1RB/0, Mid Ch
6921.201	3.0	63.0	Horz	PK	423.8E-9	-33.7	-13.0	-20.7	EUT Vert, 5 MHz BW, QPSK, 1RB/0, Mid Ch
6921.276	3.1	39.9	Vert	PK	386.5E-9	-34.1	-13.0	-21.1	EUT on Side, 5 MHz BW, 16QAM, 1RB/0, Mid Ch
3464.250	3.0	180.0	Vert	PK	293.2E-9	-35.3	-13.0	-22.3	EUT on Side, 1.4 MHz BW, QPSK, 1RB/0, Mid Ch
6840.799	3.3	43.0	Vert	PK	232.9E-9	-36.3	-13.0	-23.3	EUT on Side, 1.4 MHz BW, QPSK, 1RB/0, Low Ch
6841.357	2.8	90.0	Horz	PK	212.4E-9	-36.7	-13.0	-23.7	EUT Vert, 5 MHz BW, QPSK, 1RB/0, Low Ch
3420.382	3.1	177.9	Vert	PK	180.8E-9	-37.4	-13.0	-24.4	EUT on Side, 1.4 MHz BW, QPSK, 1RB/0, Low Ch
7001.500	2.8	69.0	Horz	PK	172.6E-9	-37.6	-13.0	-24.6	EUT Vert, 5 MHz BW, QPSK, 1RB/0, High Ch
3507.692	3.3	356.0	Vert	PK	131.0E-9	-38.8	-13.0	-25.8	EUT on Side, 1.4 MHz BW, QPSK, 1RB/0, High Ch
7015.608	1.6	352.9	Vert	PK	125.1E-9	-39.0	-13.0	-26.0	EUT on Side, 1.4 MHz BW, QPSK, 1RB/0, High Ch
5130.986	2.9	26.0	Vert	PK	101.7E-9	-39.9	-13.0	-26.9	EUT on Side, 1.4 MHz BW, QPSK, 1RB/0, Low Ch
3500.492	3.0	27.0	Horz	PK	97.1E-9	-40.1	-13.0	-27.1	EUT Vert, 5 MHz BW, QPSK, 1RB/0, High Ch
5191.109	1.8	360.0	Horz	PK	90.6E-9	-40.4	-13.0	-27.4	EUT Vert, 5 MHz BW, QPSK, 1RB/0, Mid Ch
5195.959	1.8	339.9	Vert	PK	68.7E-9	-41.6	-13.0	-28.6	EUT on Side, 1.4 MHz BW, QPSK, 1RB/0, Mid Ch
5130.891	1.5	27.0	Horz	PK	49.8E-9	-43.0	-13.0	-30.0	EUT Vert, 5 MHz BW, QPSK, 1RB/0, Low Ch
5251.108	1.9	87.9	Horz	PK	48.7E-9	-43.1	-13.0	-30.1	EUT Vert, 5 MHz BW, QPSK, 1RB/0, High Ch
5261.559	1.9	339.9	Vert	PK	40.5E-9	-43.9	-13.0	-30.9	EUT on Side, 1.4 MHz BW, QPSK, 1RB/0, High Ch
3460.534	1.5	133.0	Horz	PK	31.4E-9	-45.0	-13.0	-32.0	EUT Vert, 5 MHz BW, QPSK, 1RB/0, Mid Ch
3401.992	1.5	223.0	Horz	PK	4.6E-9	-53.3	-13.0	-40.3	EUT Vert, 5 MHz BW, QPSK, 1RB/0, Low Ch

CONCLUSION

Pass

Tested By