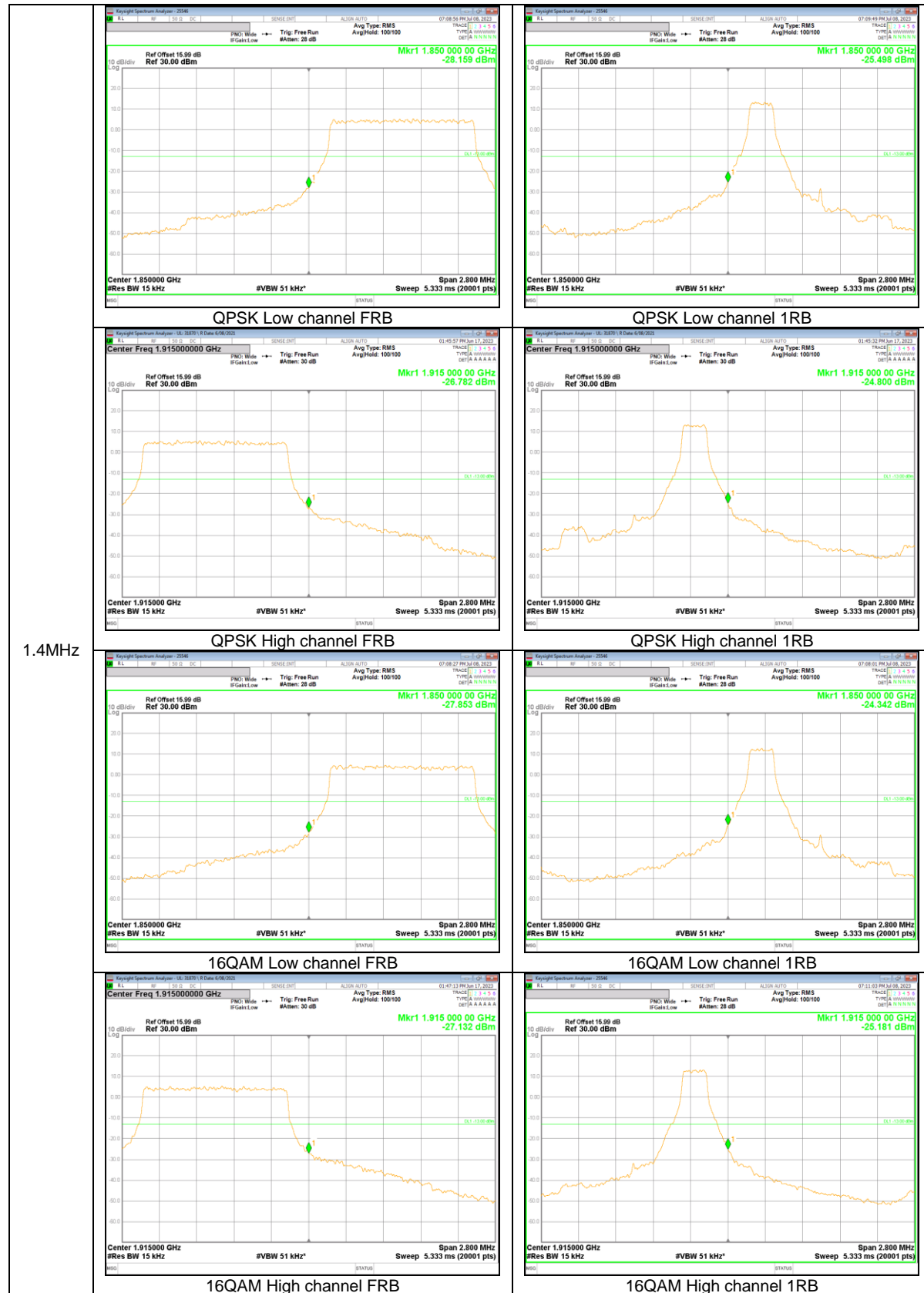
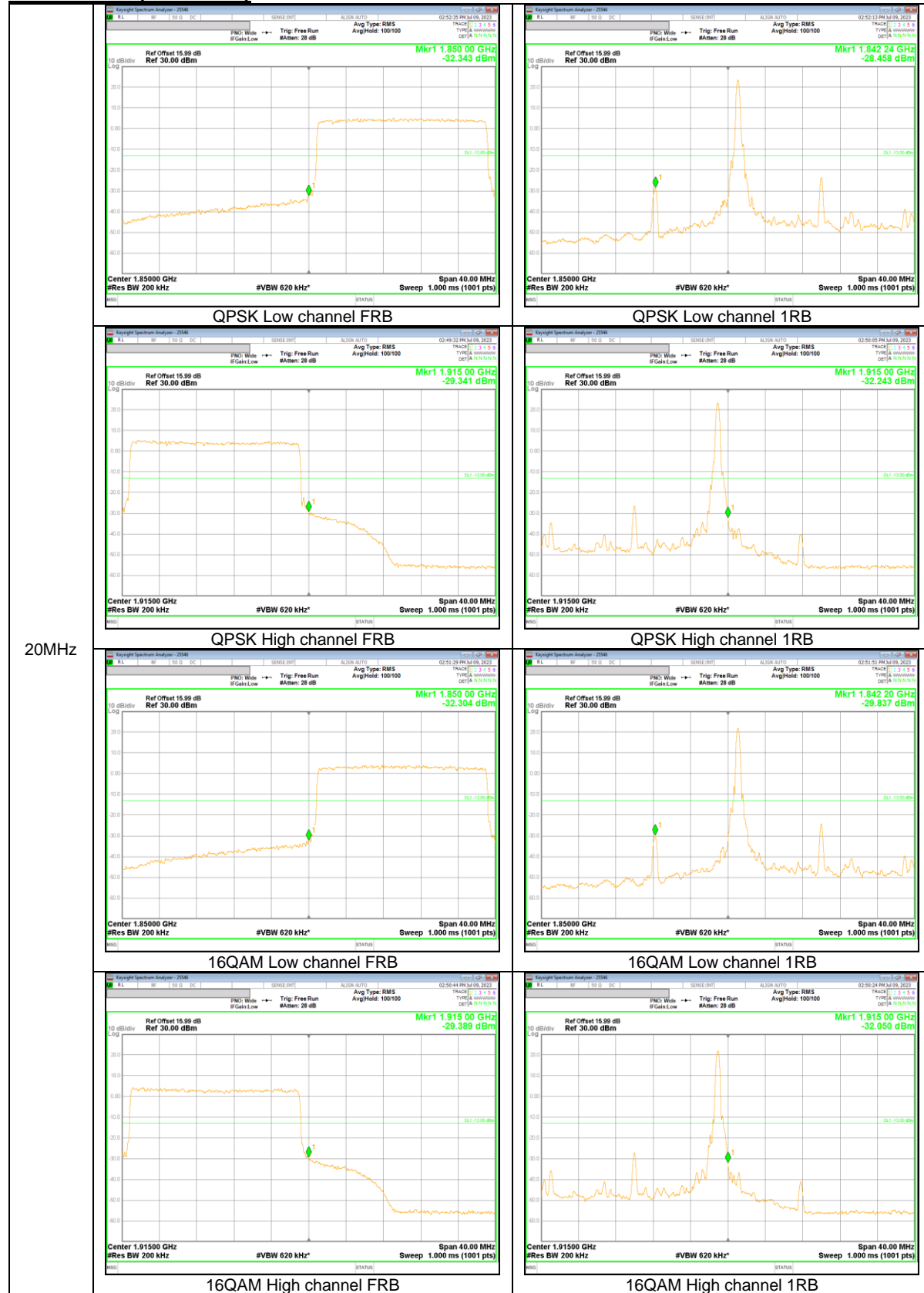
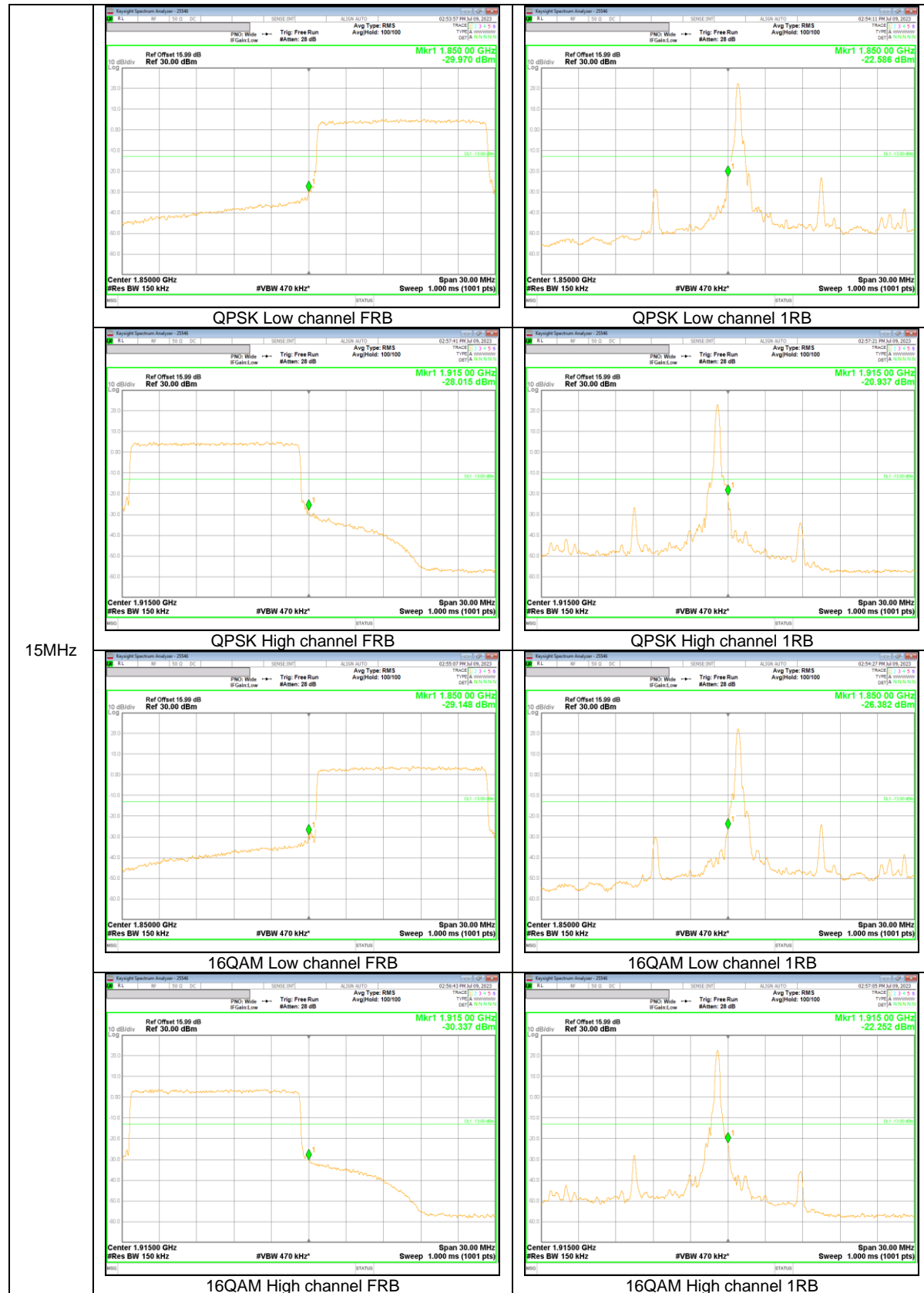


3MHz

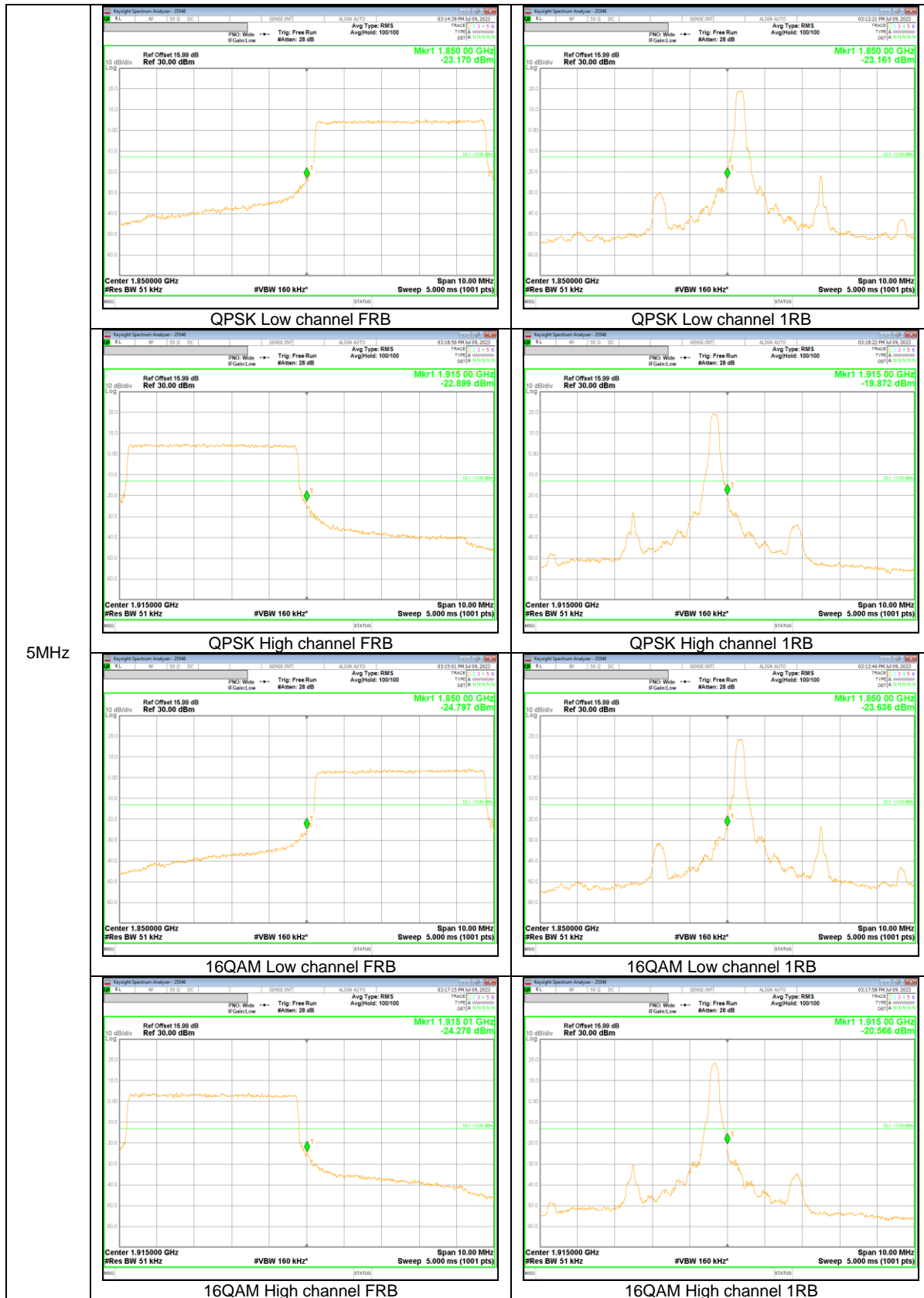


LTE Band 25 (ANT Sub2)

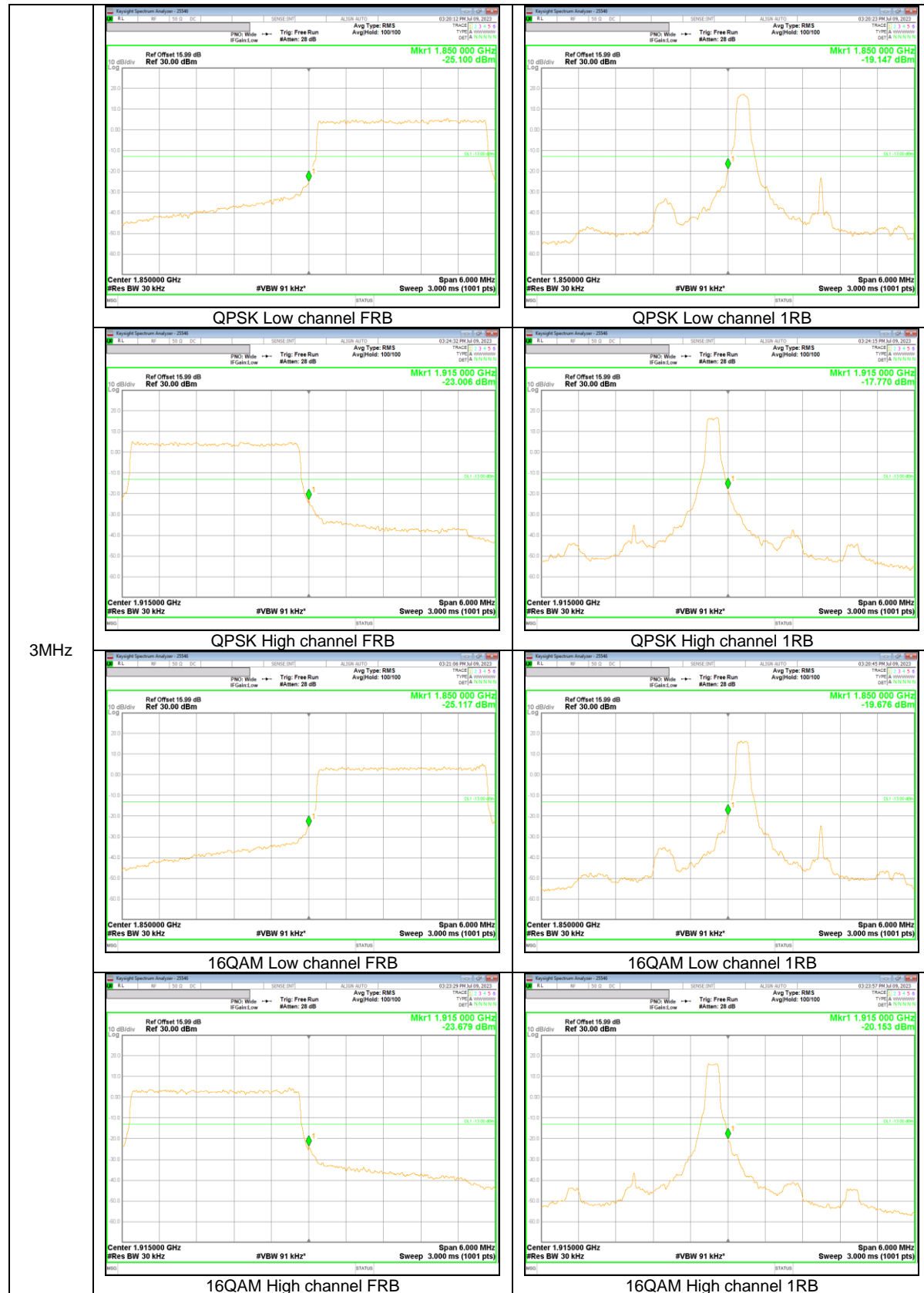




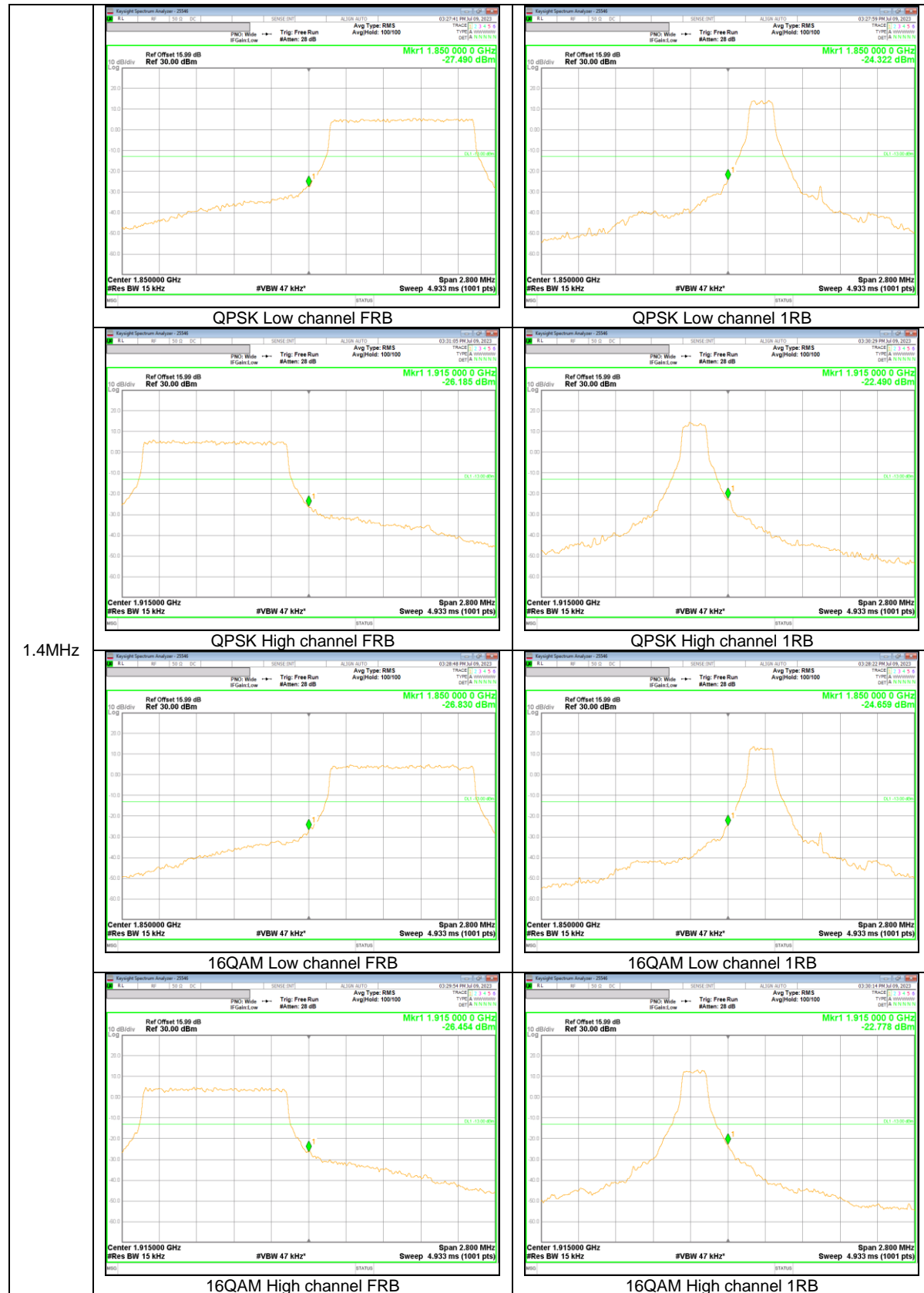




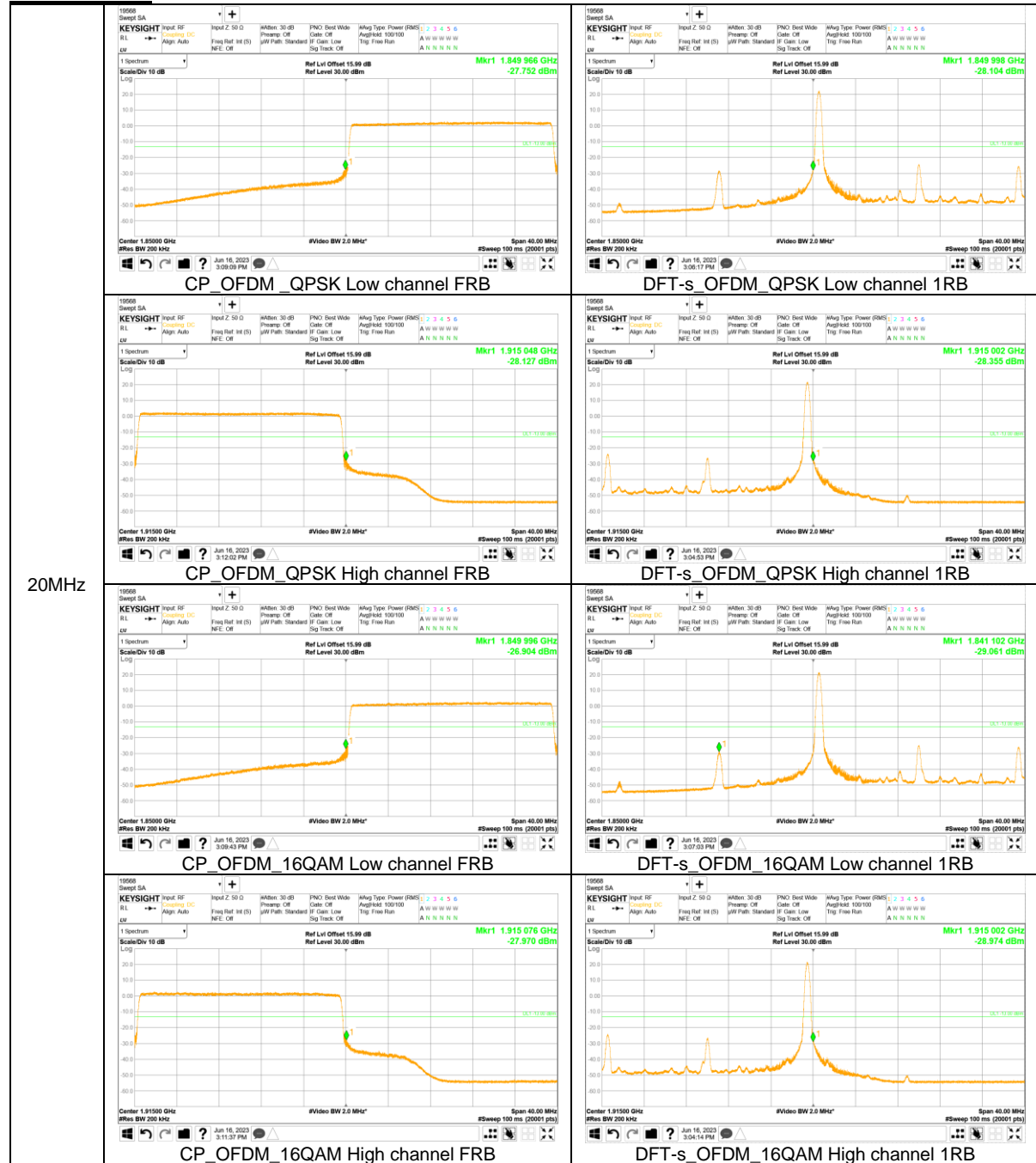
5MHz



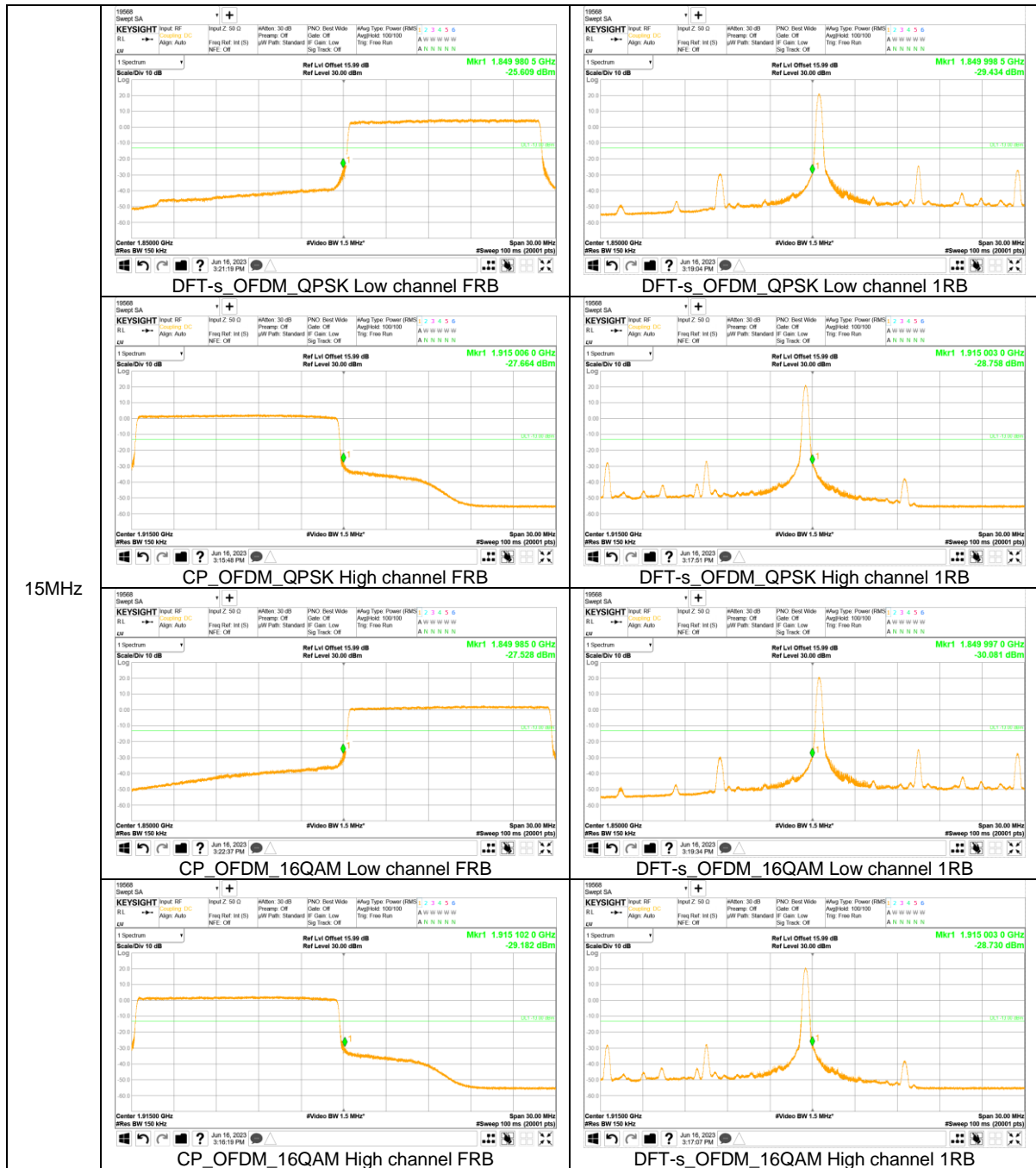
3MHz

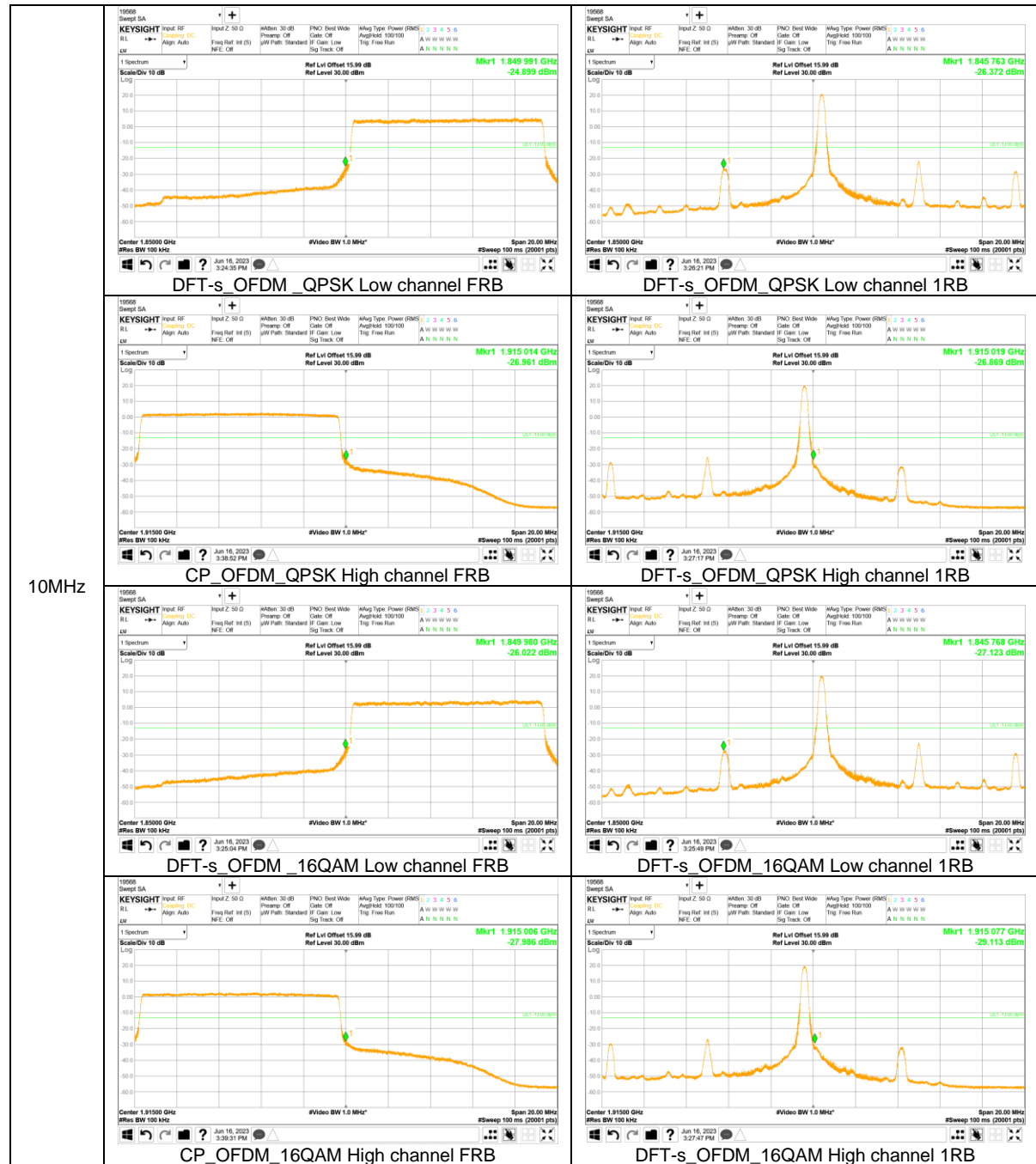


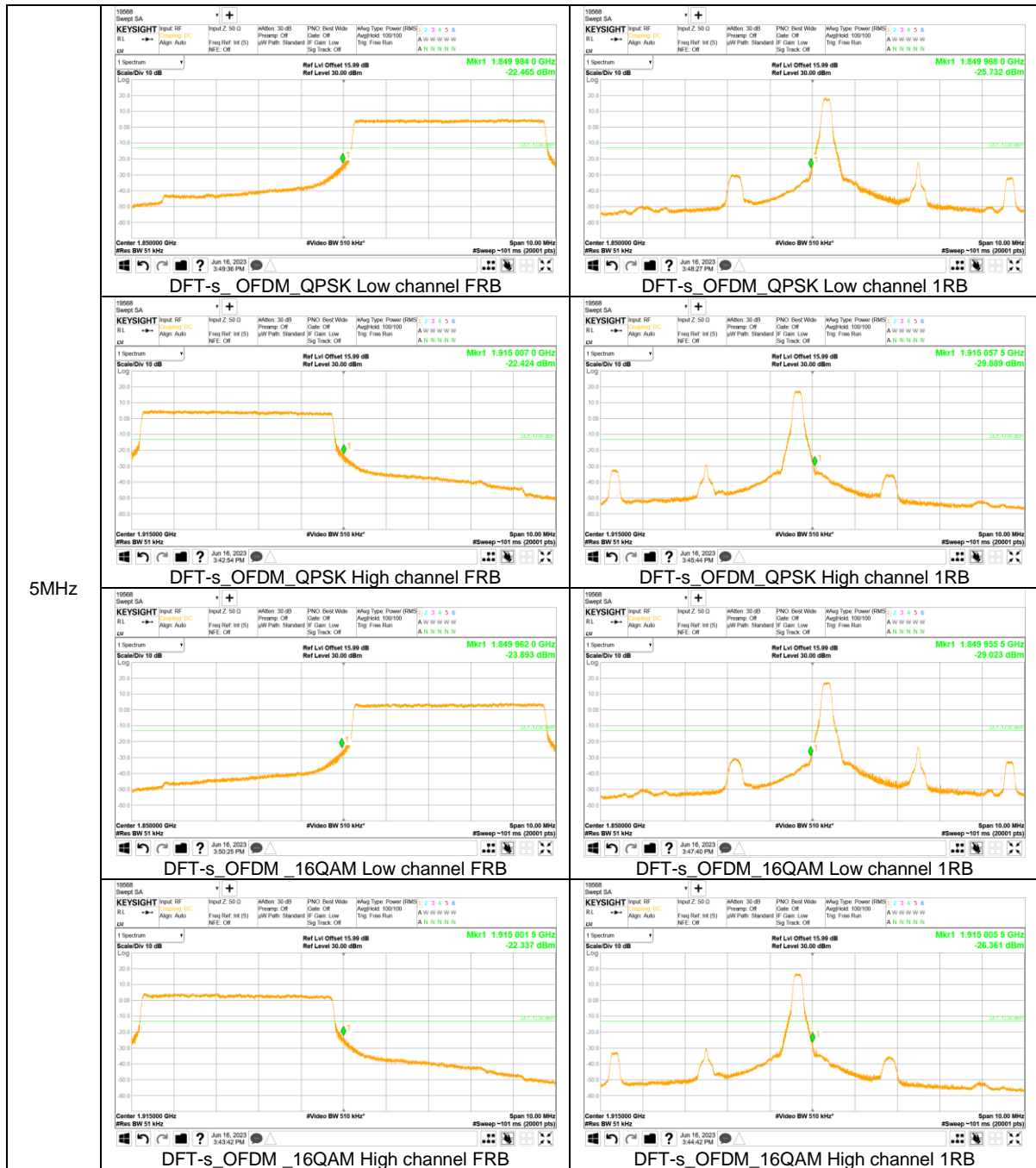
NR Band n25



20MHz







5MHz

8.5. CONDUCTED SPURIOUS EMISSIONS

RULE PART(S)

FCC: §2.1051, §24.238

LIMITS

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v03r01

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold Mode using a peak detector to ensure that the worst-case emissions were caught.

- a) Set the RBW = 1 MHz for emissions above 1 GHz;
(Tests were performed 1MHz [Worst case], to sweep 1 time for all frequency range)
- b) Set VBW $\geq 3 \times$ RBW;
- c) Set span ≥ 1.5 times the OBW;
- d) Sweep time = auto couple;
- e) Detector = rms;
- f) Ensure that the number of measurement points = Max (40001);
- g) Trace Mode = average(WCDMA, LTE, 5G NR);

NOTE1

5G NR: All Waveforms (CP-OFDM vs DFT-s_OFDM) and modulations ($\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM) were investigated to determine the worst case configuration. All Modes of operation were investigated and the worst case configuration results are reported in this section.

NOTE2

Please refer to section 5.4 for bandwidth and RB setting about LTE, 5G NR bands.

RESULTS

See the following pages.

8.5.1. OUT OF BAND EMISSIONS RESULT

WCDMA



LTE Band 25 (ANT Main1)



LTE Band 25 (ANT Sub2)



NR Band n25



8.6. FREQUENCY STABILITY

RULE PART(S)

FCC: §2.1055, §24.235

LIMITS

24.235

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v03r01

NOTE

Test were performed each lowest or highest frequency on the modulation condition of more wide bandwidth.(Please refer to section 9.1.1 OBW results)

RESULTS

See the following pages.

8.6.1. FREQUENCY STABILITY RESULTS

WCDMA Band 2 (Lowest Frequency: HSDPA / Highest Frequency: Rel99)

Test Date	2023-06-12
Test Engineer	19568

Limit		1850	1910	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ End of OBW	F high @ End of OBW		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	1850.3098	1909.6889		
Extreme (50C)		1850.3098	1909.6889	4.7	0.002
Extreme (40C)		1850.3098	1909.6889	4.7	0.003
Extreme (30C)		1850.3098	1909.6889	4.2	0.002
Extreme (10C)		1850.3098	1909.6889	4.1	0.002
Extreme (0C)		1850.3098	1909.6889	11.4	0.006
Extreme (-10C)		1850.3098	1909.6889	10.9	0.006
Extreme (-20C)		1850.3098	1909.6889	11.8	0.006
Extreme (-30C)		1850.3098	1909.6889	11.5	0.006
20C		15%	1850.3098	1909.6889	6.6
	-15%	1850.3098	1909.6889	6.4	0.003
	End Point	1850.3098	1909.6889	6.3	0.003

LTE Band 25 (Lowest Frequency: 16QAM / Highest Frequency: QPSK)

Test Date	2023-06-21
Test Engineer	19568

Limit		1850	1915	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ End of OBW	F high @ End of OBW		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	1850.1556	1914.8446		
Extreme (50C)		1850.1556	1914.8446	5.9	0.003
Extreme (40C)		1850.1556	1914.8446	6.2	0.003
Extreme (30C)		1850.1556	1914.8446	5.5	0.003
Extreme (10C)		1850.1556	1914.8446	7.2	0.004
Extreme (0C)		1850.1556	1914.8446	5.8	0.003
Extreme (-10C)		1850.1556	1914.8446	5.6	0.003
Extreme (-20C)		1850.1556	1914.8446	6.4	0.003
Extreme (-30C)		1850.1556	1914.8446	6.9	0.004
20C		15%	1850.1556	1914.8446	11.2
	-15%	1850.1556	1914.8446	10.5	0.006
	End Point	1850.1556	1914.8446	6.5	0.003

5G NR Band n25 (Lowest Frequency: 16QAM / Highest Frequency: 16QAM)

Test Date	2023-07-05
Test Engineer	19568

Limit		1850	1915	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ End of OBW (MHz)	F high @ End of OBW (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	1850.2610	1914.7368		
Extreme (50C)		1850.2610	1914.7368	16.2	0.009
Extreme (40C)		1850.2610	1914.7368	17.3	0.009
Extreme (30C)		1850.2610	1914.7368	23.9	0.013
Extreme (10C)		1850.2610	1914.7368	35.4	0.019
Extreme (0C)		1850.2610	1914.7368	27.1	0.014
Extreme (-10C)		1850.2610	1914.7368	26.0	0.014
Extreme (-20C)		1850.2610	1914.7368	15.1	0.008
Extreme (-30C)		1850.2610	1914.7368	23.4	0.012
20C	15%	1850.2610	1914.7368	20.7	0.011
	-15%	1850.2610	1914.7368	34.6	0.018
	End Point	1850.2610	1914.7368	31.2	0.017

9. RADIATED RESULTS

9.1. RADIATED POWER (EIRP)

RULE PART(S)

FCC: §2.1046, §24.232

LIMITS

24.232(c)

Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.

TEST PROCEDURE

ANSI / TIA / EIA 603 E Clause 2.2.17; ESU40 setting reference to 971168 D01 v03r01

For radiated output power measurement with a ESU40:

- a) Set the RBW \geq OBW;
- b) Set VBW $\geq 3 \times$ RBW;
- c) Set span $\geq 2 \times$ OBW;
- d) Sweep time = auto couple or 1 second;
- e) Detector = rms;
- f) Ensure that the number of measurement points \geq span/RBW;
- g) Trace Mode = max hold(WCDMA), average(LTE, 5G NR);

TEST RESULTS

See the following pages.

9.1.1. EIRP Results

WCDMA

Band	Mode	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)
Band 2	REL99	1852.40	19.68	H	4.49	9.32	24.51	282.47	33.00	-8.49
		1880.00	20.76	H	4.52	9.14	25.38	345.02	33.00	-7.62
		1907.60	21.37	H	4.55	8.92	25.73	374.48	33.00	-7.27
	HSDPA	1852.40	18.75	H	4.49	9.32	23.58	228.02	33.00	-9.42
		1880.00	19.72	H	4.52	9.14	24.34	271.55	33.00	-8.66
		1907.60	21.11	H	4.55	8.92	25.47	352.72	33.00	-7.53

LTE Band 25 (ANT Main1)

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
20	QPSK	1860.00	21.72	H	4.49	9.45	26.67	464.52	33.00	-6.33	1/99
		1882.50	19.95	H	4.52	9.27	24.70	295.12	33.00	-8.30	1/0
		1905.00	18.25	H	4.55	9.06	22.76	188.80	33.00	-10.24	1/0
	16-QAM	1860.00	21.17	H	4.49	9.45	26.12	409.26	33.00	-6.88	1/99
		1882.50	19.48	H	4.52	9.27	24.23	264.85	33.00	-8.77	1/0
		1905.00	17.88	H	4.55	9.06	22.39	173.38	33.00	-10.61	1/0
15	QPSK	1857.50	21.31	H	4.49	9.47	26.28	424.62	33.00	-6.72	1/74
		1882.50	19.76	H	4.52	9.27	24.51	282.49	33.00	-8.49	1/0
		1907.50	18.91	H	4.55	9.03	23.39	218.27	33.00	-9.61	1/0
	16-QAM	1857.50	20.87	H	4.49	9.47	25.84	383.71	33.00	-7.16	1/74
		1882.50	19.31	H	4.52	9.27	24.06	254.68	33.00	-8.94	1/0
		1907.50	18.51	H	4.55	9.03	22.99	199.07	33.00	-10.01	1/0
10	QPSK	1855.00	21.23	H	4.49	9.48	26.23	419.76	33.00	-6.77	1/49
		1882.50	19.81	H	4.52	9.27	24.56	285.76	33.00	-8.44	1/25
		1910.00	19.63	H	4.55	8.99	24.08	255.86	33.00	-8.92	1/49
	16-QAM	1855.00	20.72	H	4.49	9.48	25.72	373.25	33.00	-7.28	1/25
		1882.50	19.36	H	4.52	9.27	24.11	257.63	33.00	-8.89	1/25
		1910.00	19.24	H	4.55	8.99	23.69	233.88	33.00	-9.31	1/49
5	QPSK	1852.50	20.88	H	4.49	9.50	25.89	388.15	33.00	-7.11	1/24
		1882.50	20.17	H	4.52	9.27	24.92	310.46	33.00	-8.08	1/24
		1912.50	20.03	H	4.56	8.96	24.43	277.33	33.00	-8.57	1/12
	16-QAM	1852.50	20.52	H	4.49	9.50	25.53	357.27	33.00	-7.47	1/24
		1882.50	19.83	H	4.52	9.27	24.58	287.08	33.00	-8.42	1/0
		1912.50	19.71	H	4.56	8.96	24.11	257.63	33.00	-8.89	1/24
3	QPSK	1851.50	20.88	H	4.49	9.51	25.90	389.05	33.00	-7.10	1/8
		1882.50	19.95	H	4.52	9.27	24.70	295.12	33.00	-8.30	1/0
		1913.50	19.53	H	4.56	8.95	23.92	246.60	33.00	-9.08	1/0
	16-QAM	1851.50	20.46	H	4.49	9.51	25.48	353.18	33.00	-7.52	1/14
		1882.50	19.78	H	4.52	9.27	24.53	283.79	33.00	-8.47	1/14
		1913.50	19.31	H	4.56	8.95	23.70	234.42	33.00	-9.30	1/0
1.4	QPSK	1850.70	20.59	H	4.48	9.52	25.62	364.75	33.00	-7.38	1/5
		1882.50	20.08	H	4.52	9.27	24.83	304.09	33.00	-8.17	1/5
		1914.30	19.10	H	4.56	8.94	23.48	222.84	33.00	-9.52	1/0
	16-QAM	1850.70	20.23	H	4.48	9.52	25.26	335.74	33.00	-7.74	1/5
		1882.50	19.69	H	4.52	9.27	24.44	277.97	33.00	-8.56	1/3
		1914.30	18.69	H	4.56	8.94	23.07	202.77	33.00	-9.93	1/5

LTE Band 25 (ANT Sub2)

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
20	QPSK	1860.00	14.44	H	4.49	9.45	19.39	86.90	33.00	-13.61	1/99
		1882.50	14.96	H	4.52	9.27	19.71	93.54	33.00	-13.29	1/0
		1905.00	15.64	H	4.55	9.06	20.15	103.51	33.00	-12.85	1/0
	16-QAM	1860.00	13.48	H	4.49	9.45	18.43	69.66	33.00	-14.57	1/99
		1882.50	13.90	H	4.52	9.27	18.65	73.28	33.00	-14.35	1/99
		1905.00	14.55	H	4.55	9.06	19.06	80.54	33.00	-13.94	1/49

5G NR n25 DFT-s OFDM

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
20	QPSK	1860.00	20.56	H	4.49	9.45	25.51	355.63	33.00	-7.49	1/1
		1882.50	18.94	H	4.52	9.27	23.69	233.88	33.00	-9.31	1/104
		1905.00	17.64	H	4.55	9.06	22.15	164.06	33.00	-10.85	1/104
	16-QAM	1860.00	20.08	H	4.49	9.45	25.03	318.42	33.00	-7.97	1/53
		1882.50	19.51	H	4.52	9.27	23.26	211.94	33.00	-9.74	1/53
		1905.00	17.25	H	4.55	9.06	21.76	149.97	33.00	-11.24	1/53
15	QPSK	1857.50	20.48	H	4.49	9.47	25.45	350.75	33.00	-7.55	1/1
		1882.50	19.13	H	4.52	9.27	23.88	244.34	33.00	-9.12	1/40
		1907.50	18.45	H	4.55	9.03	22.93	196.34	33.00	-10.07	1/1
	16-QAM	1857.50	19.98	H	4.49	9.47	24.95	312.61	33.00	-8.05	1/40
		1882.50	19.64	H	4.52	9.27	23.39	218.27	33.00	-9.61	1/40
		1907.50	17.94	H	4.55	9.03	22.42	174.58	33.00	-10.58	1/40
10	QPSK	1855.00	20.38	H	4.49	9.48	25.38	345.14	33.00	-7.62	1/26
		1882.50	19.53	H	4.52	9.27	24.28	267.92	33.00	-8.72	1/50
		1910.00	18.68	H	4.55	8.99	23.13	205.59	33.00	-9.87	1/26
	16-QAM	1855.00	19.78	H	4.49	9.48	24.78	300.61	33.00	-8.22	1/26
		1882.50	19.03	H	4.52	9.27	23.78	238.78	33.00	-9.22	1/50
		1910.00	18.21	H	4.55	8.99	22.66	184.50	33.00	-10.34	1/26
5	QPSK	1852.50	19.76	H	4.49	9.50	24.77	299.92	33.00	-8.23	1/23
		1882.50	19.35	H	4.52	9.27	24.10	257.04	33.00	-8.90	1/23
		1912.50	19.34	H	4.56	8.96	23.74	236.59	33.00	-9.26	1/23
	16-QAM	1852.50	19.39	H	4.49	9.50	24.40	275.42	33.00	-8.60	1/23
		1882.50	19.79	H	4.52	9.27	23.54	225.94	33.00	-9.46	1/23
		1912.50	18.83	H	4.56	8.96	23.23	210.38	33.00	-9.77	1/1

9.2. RADIATED SPURIOUS EMISSION

RULE PART(S)

FCC: §2.1053, §24.238

LIMIT

24.238(a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

TEST PROCEDURE

ANSI / TIA / EIA 603 E Clause 2.2.12; ESU40 setting reference to 971168 D01 v03r01

For peak power measurement with a ESU40:

- a) Set the RBW = 1 MHz for emissions above 1 GHz;
- b) Set VBW $\geq 3 \times$ RBW;
- c) Set span ≥ 1.5 times the OBW;
- d) Sweep time = auto couple;
- e) Detector = rms;
- f) Ensure that the number of measurement points \geq span/RBW;
- g) Trace Mode = average(WCDMA, LTE, 5G NR);

NOTE1

5G NR: All Waveforms (CP-OFDM vs DFT-s_OFDM) and modulations ($\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM) were investigated to determine the worst case configuration. All Modes of operation were investigated and the worst case configuration results are reported in this section.

NOTE2

Please refer to section 5.4 for bandwidth and RB setting about LTE, 5G NR bands.

RESULTS

See the following pages.

9.2.1. SPURIOUS RADIATION PLOTS

WCDMA Band 2

REL99		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung Project #: 4790841154 Date: 2023-06-12 Test Engineer: 51078 Configuration: EUT / AC Adapter, Z-Position Location: Chamber 2 Mode: Rel99 Band 2 Harmonics Test Voltage: AC 120 V, 60 Hz									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch, 1852.4MHz											
3704.80	-11.0	V	3.0	42.1	1.0	-52.0	-13.0	-39.0			
5557.20	-7.9	V	3.0	42.9	1.0	-49.8	-13.0	-36.8			
7409.60	-5.3	V	3.0	42.5	1.0	-46.8	-13.0	-33.8			
3704.80	-11.2	H	3.0	42.1	1.0	-52.2	-13.0	-39.2			
5557.20	-8.0	H	3.0	42.9	1.0	-49.9	-13.0	-36.9			
7409.60	-5.4	H	3.0	42.5	1.0	-46.9	-13.0	-33.9			
Mid Ch, 1880MHz											
3760.00	-10.9	V	3.0	42.1	1.0	-52.0	-13.0	-39.0			
5640.00	-7.6	V	3.0	42.9	1.0	-49.5	-13.0	-36.5			
7520.00	-4.6	V	3.0	42.4	1.0	-46.0	-13.0	-33.0			
3760.00	-11.1	H	3.0	42.1	1.0	-52.1	-13.0	-39.1			
5640.00	-7.6	H	3.0	42.9	1.0	-49.5	-13.0	-36.5			
7520.00	-5.1	H	3.0	42.4	1.0	-46.6	-13.0	-33.6			
High Ch, 1907.6MHz											
3815.20	-10.7	V	3.0	42.1	1.0	-51.7	-13.0	-38.7			
5722.80	-7.7	V	3.0	42.9	1.0	-49.6	-13.0	-36.6			
7630.40	-4.9	V	3.0	42.4	1.0	-46.3	-13.0	-33.3			
3815.20	-10.8	H	3.0	42.1	1.0	-51.9	-13.0	-38.9			
5722.80	-7.9	H	3.0	42.9	1.0	-49.8	-13.0	-36.8			
7630.40	-5.0	H	3.0	42.4	1.0	-46.4	-13.0	-33.4			

LTE Band 25 (ANT Main1)

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
20 MHz QPSK ANT Main1	Company: Samsung Project #: 4790841154 Date: 2023-06-12 Test Engineer: 24542 Configuration: EUT / AC Adapter, Y-Position Location: Chamber 1 Mode: LTE_QPSK Band 25 Harmonics, 20MHz Bandwidth Test Voltage: AC 120 V, 60 Hz										
	Low Ch, 1860MHz										
	3720.00	-9.8	V	3.0	46.0	1.0	-54.9	-13.0	-41.9		
	5580.00	-6.9	V	3.0	45.7	1.0	-51.6	-13.0	-38.6		
	7440.00	4.3	V	3.0	45.5	1.0	-40.2	-13.0	-27.2		
	3720.00	-9.1	H	3.0	46.0	1.0	-54.2	-13.0	-41.2		
	5580.00	-6.7	H	3.0	45.7	1.0	-51.5	-13.0	-38.5		
	7440.00	1.5	H	3.0	45.5	1.0	-43.1	-13.0	-30.1		
	Mid Ch, 1882.5MHz										
	3765.00	-9.5	V	3.0	46.0	1.0	-54.4	-13.0	-41.4		
	5647.50	-6.3	V	3.0	45.7	1.0	-51.0	-13.0	-38.0		
	7530.00	5.3	V	3.0	45.5	1.0	-39.2	-13.0	-26.2		
	3765.00	-9.1	H	3.0	46.0	1.0	-54.0	-13.0	-41.0		
	5647.50	-6.8	H	3.0	45.7	1.0	-51.4	-13.0	-38.4		
	7530.00	1.3	H	3.0	45.5	1.0	-43.2	-13.0	-30.2		
	High Ch, 1905MHz										
	3810.00	-9.4	V	3.0	45.9	1.0	-54.3	-13.0	-41.3		
	5715.00	-6.2	V	3.0	45.6	1.0	-50.8	-13.0	-37.8		
	7620.00	3.4	V	3.0	45.6	1.0	-41.1	-13.0	-28.1		
	3810.00	-9.0	H	3.0	45.9	1.0	-53.9	-13.0	-40.9		
	5715.00	-6.5	H	3.0	45.6	1.0	-51.2	-13.0	-38.2		
	7620.00	2.9	H	3.0	45.6	1.0	-41.6	-13.0	-28.6		

LTE Band 25 (ANT Sub2)

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
20 MHz QPSK ANT Sub2	Company: Samsung Project #: 4790841154 Date: 2023-06-28 Test Engineer: 26087 Configuration: EUT, Z-Position Location: Chamber 1 Mode: LTE_QPSK Band 25 Harmonics, 20MHz Bandwidth Test Voltage: AC 120 V, 60 Hz										
	Low Ch, 1860MHz										
	3720.00	-8.9	V	3.0	46.0	1.0	-53.9	-13.0	-40.9		
	5580.00	-6.3	V	3.0	45.7	1.0	-51.0	-13.0	-38.0		
	7440.00	-3.7	V	3.0	45.5	1.0	-48.2	-13.0	-35.2		
	9300.00	-2.3	V	3.0	45.5	1.0	-46.9	-13.0	-33.9		
	11160.00	0.9	V	3.0	46.6	1.0	-44.6	-13.0	-31.6		
	3720.00	-5.2	H	3.0	46.0	1.0	-50.2	-13.0	-37.2		
	5580.00	-4.0	H	3.0	45.7	1.0	-48.7	-13.0	-35.7		
	7440.00	-3.3	H	3.0	45.5	1.0	-47.8	-13.0	-34.8		
	9300.00	-2.2	H	3.0	45.5	1.0	-46.8	-13.0	-33.8		
	11160.00	1.0	H	3.0	46.6	1.0	-44.6	-13.0	-31.6		
	Mid Ch, 1882.5MHz										
	3765.00	-8.7	V	3.0	46.0	1.0	-53.7	-13.0	-40.7		
	5647.50	-5.9	V	3.0	45.7	1.0	-50.6	-13.0	-37.6		
	7530.00	-3.4	V	3.0	45.5	1.0	-48.0	-13.0	-35.0		
	9412.50	-2.0	V	3.0	45.5	1.0	-46.5	-13.0	-33.5		
	11295.00	0.9	V	3.0	46.7	1.0	-44.8	-13.0	-31.8		
	3765.00	-5.6	H	3.0	46.0	1.0	-50.5	-13.0	-37.5		
	5647.50	-3.5	H	3.0	45.7	1.0	-48.2	-13.0	-35.2		
	7530.00	-3.1	H	3.0	45.5	1.0	-47.6	-13.0	-34.6		
	9412.50	-1.9	H	3.0	45.5	1.0	-46.4	-13.0	-33.4		
	11295.00	1.0	H	3.0	46.7	1.0	-44.7	-13.0	-31.7		
	High Ch, 1905MHz										
	3810.00	-8.6	V	3.0	45.9	1.0	-53.5	-13.0	-40.5		
	5715.00	-5.8	V	3.0	45.6	1.0	-50.4	-13.0	-37.4		
	7620.00	-2.5	V	3.0	45.6	1.0	-47.0	-13.0	-34.0		
	9525.00	-4.9	V	3.0	45.5	1.0	-49.4	-13.0	-36.4		
	11430.00	0.9	V	3.0	46.8	1.0	-44.9	-13.0	-31.9		
	3810.00	-7.1	H	3.0	45.9	1.0	-51.9	-13.0	-38.9		
	5715.00	-0.9	H	3.0	45.6	1.0	-45.6	-13.0	-32.6		
	7620.00	-1.5	H	3.0	45.6	1.0	-46.0	-13.0	-33.0		
	9525.00	-1.6	H	3.0	45.5	1.0	-46.1	-13.0	-33.1		
	11430.00	0.9	H	3.0	46.8	1.0	-44.9	-13.0	-31.9		

NR Band n25

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
20 MHz DFT-s_OFDM	Company: Samsung										
	Project #: 4790841154										
	Date: 2023-06-23										
	Test Engineer: 24542										
	Configuration: EUT, Y-Position										
	Location: Chamber 1										
	Mode: 5G NR_QPSK NR n25 Harmonics, 20MHz Bandwidth										
	Test Voltage: AC 120 V, 60 Hz										
	Low Ch, 1860MHz										
		3720.00	-9.5	V	3.0	46.0	1.0	-54.5	-13.0	-41.5	
		5580.00	-6.0	V	3.0	45.7	1.0	-50.8	-13.0	-37.8	
		7440.00	3.6	V	3.0	45.5	1.0	-41.0	-13.0	-28.0	
		3720.00	-9.1	H	3.0	46.0	1.0	-54.2	-13.0	-41.2	
		5580.00	-5.7	H	3.0	45.7	1.0	-50.4	-13.0	-37.4	
		7440.00	0.7	H	3.0	45.5	1.0	-43.8	-13.0	-30.8	
	Mid Ch, 1882.5MHz										
		3765.00	-8.8	V	3.0	46.0	1.0	-53.8	-13.0	-40.8	
		5647.50	-4.6	V	3.0	45.7	1.0	-49.3	-13.0	-36.3	
		7530.00	5.2	V	3.0	45.5	1.0	-39.4	-13.0	-26.4	
		3765.00	-8.5	H	3.0	46.0	1.0	-53.5	-13.0	-40.5	
		5647.50	-5.4	H	3.0	45.7	1.0	-50.1	-13.0	-37.1	
		7530.00	0.4	H	3.0	45.5	1.0	-44.1	-13.0	-31.1	
	High Ch, 1905MHz										
		3810.00	-8.9	V	3.0	45.9	1.0	-53.8	-13.0	-40.8	
		5715.00	-4.3	V	3.0	45.6	1.0	-48.9	-13.0	-35.9	
		7620.00	4.7	V	3.0	45.6	1.0	-39.9	-13.0	-26.9	
		3810.00	-8.6	H	3.0	45.9	1.0	-53.5	-13.0	-40.5	
		5715.00	-5.7	H	3.0	45.6	1.0	-50.4	-13.0	-37.4	
		7620.00	3.7	H	3.0	45.6	1.0	-40.9	-13.0	-27.9	

END OF REPORT