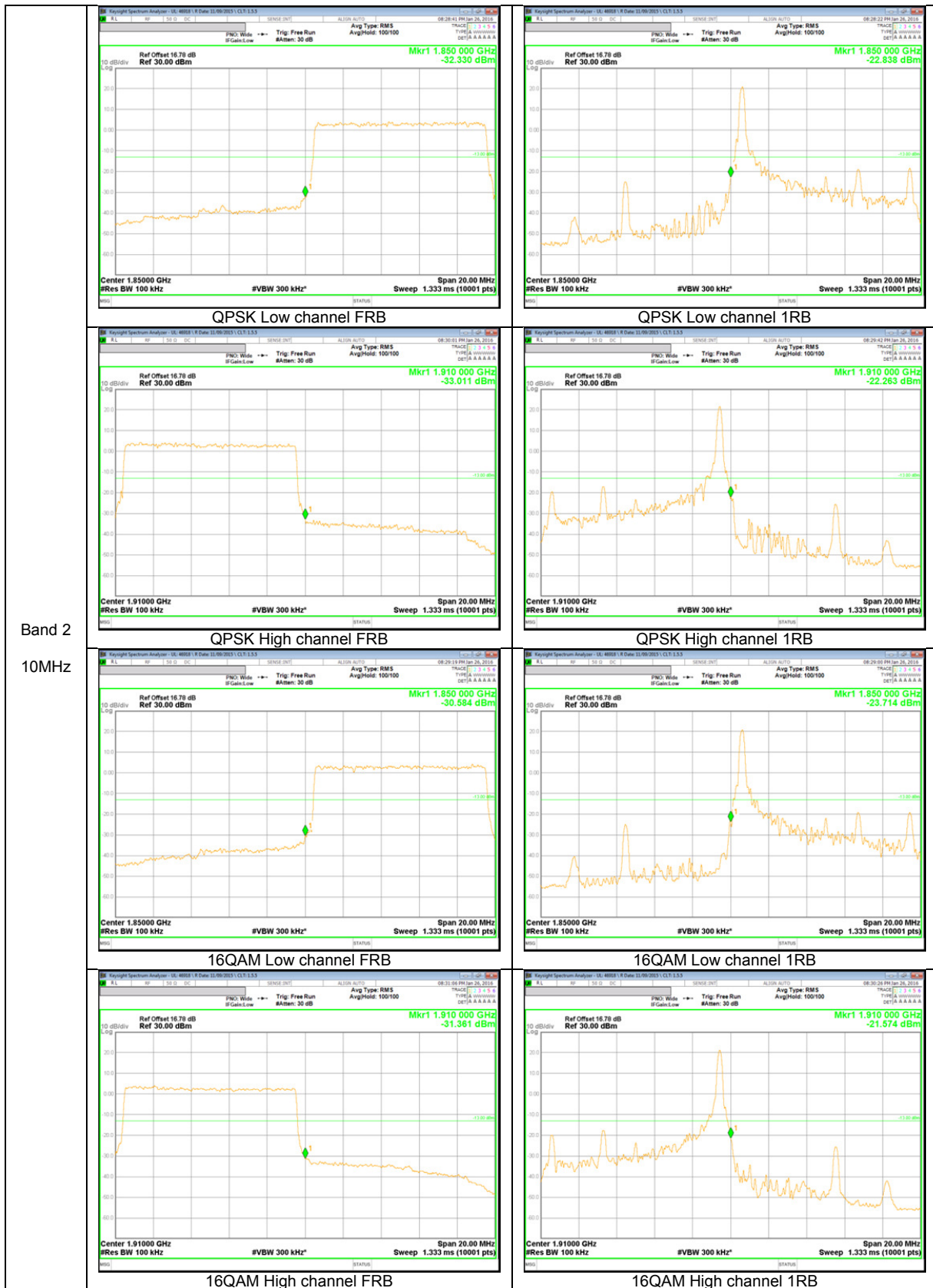
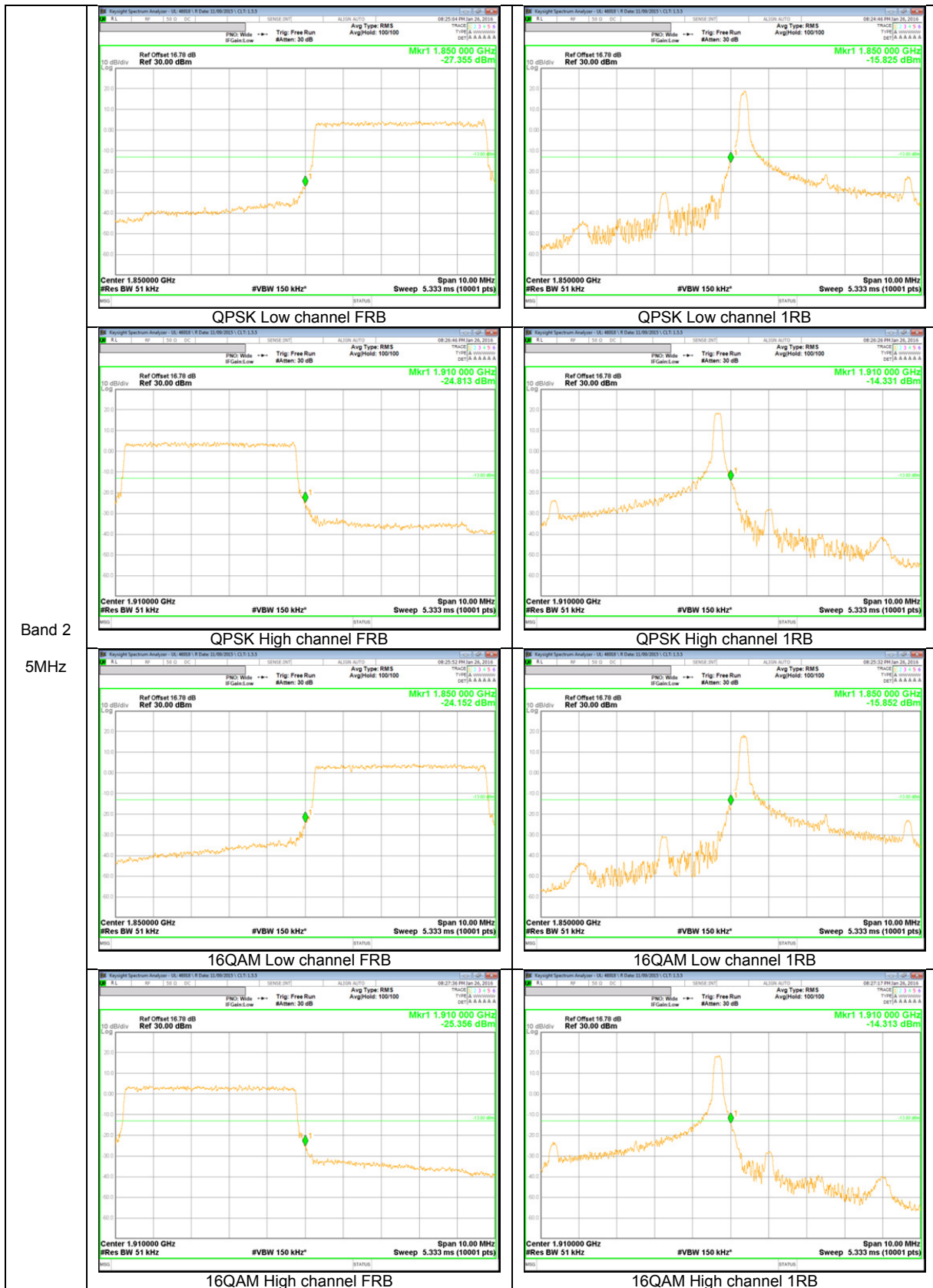
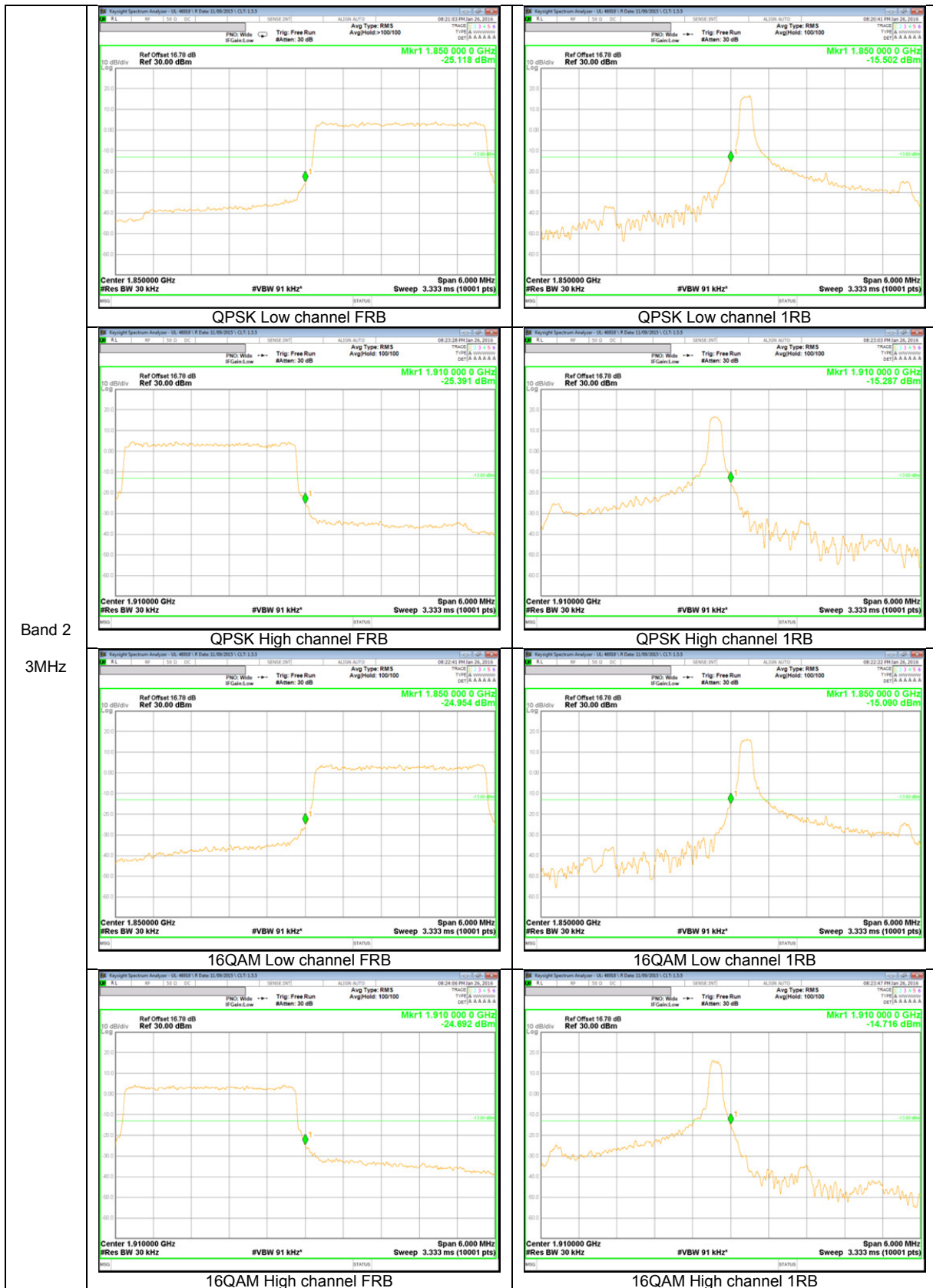


Band 2
 15MHz

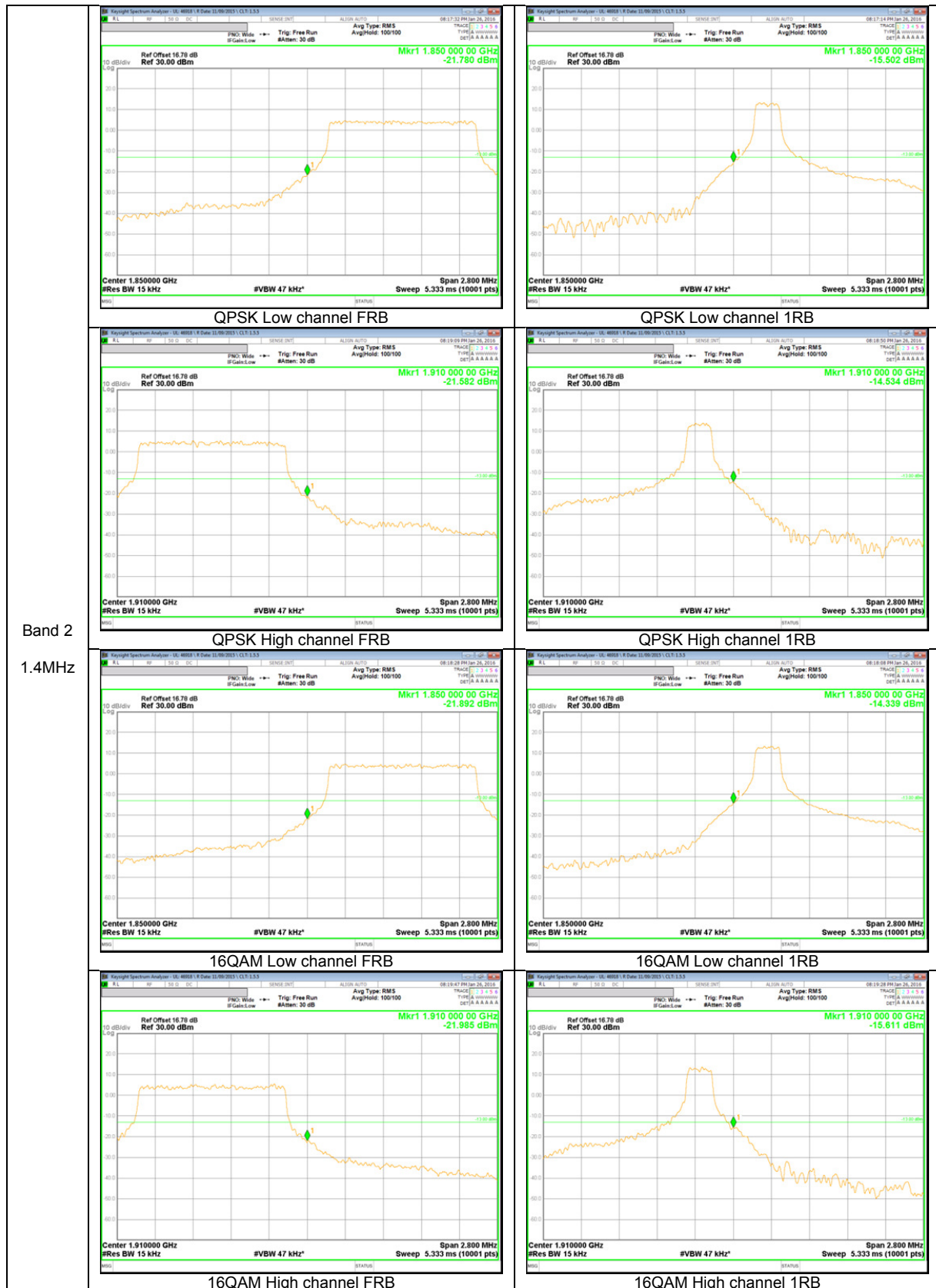


Band 2
 10MHz





Band 2
 3MHz



Band 2
 1.4MHz

10.3. OUT OF BAND EMISSIONS

RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238 and §27. 53

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 v02r02
 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.

RESULTS

10.3.1. OUT OF BAND EMISSIONS RESULT

GSM

Band	Mode	f [MHz]	Spurious [dBm]	Limit [dBm]	Margin [dB]
GSM850	GPRS	824.2	-23.34	-13.00	10.34
		836.6	-22.65		9.65
		848.8	-22.50		9.50
	EGPRS	824.2	-22.89		9.89
		836.6	-22.88		9.88
		848.8	-22.75		9.75
GSM1900	GPRS	1850.2	-22.48		9.48
		1880.0	-22.22		9.22
		1909.8	-22.39		9.39
	EGPRS	1850.2	-22.28	9.28	
		1880.0	-22.55	9.55	
		1909.8	-22.39	9.39	

WCDMA

Band	Mode	f [MHz]	Spurious [dBm]	Limit [dBm]	Margin [dB]
Band 5	REL99	826.4	-33.56	-13.00	20.56
		836.6	-33.07		20.07
		846.6	-32.93		19.93
	HSDPA	826.4	-33.18		20.18
		836.6	-32.46		19.46
		846.6	-32.87		19.87
Band 4	REL99	1712.4	-31.35		18.35
		1732.6	-32.91		19.91
		1752.6	-32.65		19.65
	HSDPA	1712.4	-31.92		18.92
		1732.6	-32.39		19.39
		1752.6	-33.02		20.02
Band 2	REL99	1852.4	-32.57	19.57	
		1880.0	-32.76	19.76	
		1907.6	-32.47	19.47	
	HSDPA	1852.4	-32.42	19.42	
		1880.0	-31.93	18.93	
		1907.6	-32.89	19.89	

LTE 17

Bandwidth	Mode	f [MHz]	Spurious [dBm]	Limit [dBm]	Margin [dB]
10 MHz	QPSK	709.0	-26.58	-13.00	13.58
		710.0	-26.72		13.72
		711.0	-25.64		12.64
	16QAM	709.0	-26.91		13.91
		710.0	-27.41		14.41
		711.0	-26.62		13.62
5 MHz	QPSK	706.5	-26.87		13.87
		710.0	-27.13		14.13
		713.5	-27.12		14.12
	16QAM	706.5	-25.80		12.80
		710.0	-26.40		13.40
		713.5	-27.32		14.32

LTE 5

Bandwidth	Mode	f [MHz]	Spurious [dBm]	Limit [dBm]	Margin [dB]
10 MHz	QPSK	829.0	-25.91	-13.00	12.91
		836.5	-26.35		13.35
		844.0	-26.38		13.38
	16QAM	829.0	-26.91		13.91
		836.5	-26.79		13.79
		844.0	-26.13		13.13
5 MHz	QPSK	826.5	-26.72		13.72
		836.5	-26.55		13.55
		846.5	-27.10		14.10
	16QAM	826.5	-27.42		14.42
		836.5	-25.77		12.77
		846.5	-26.90		13.90
3 MHz	QPSK	825.5	-26.91	13.91	
		836.5	-27.06	14.06	
		847.5	-26.13	13.13	
	16QAM	825.5	-26.42	13.42	
		836.5	-26.16	13.16	
		847.5	-26.82	13.82	
1.4 MHz	QPSK	824.7	-26.63	13.63	
		836.5	-26.18	13.18	
		848.3	-27.06	14.06	
	16QAM	824.7	-25.91	12.91	
		836.5	-26.66	13.66	
		848.3	-27.14	14.14	

LTE 4

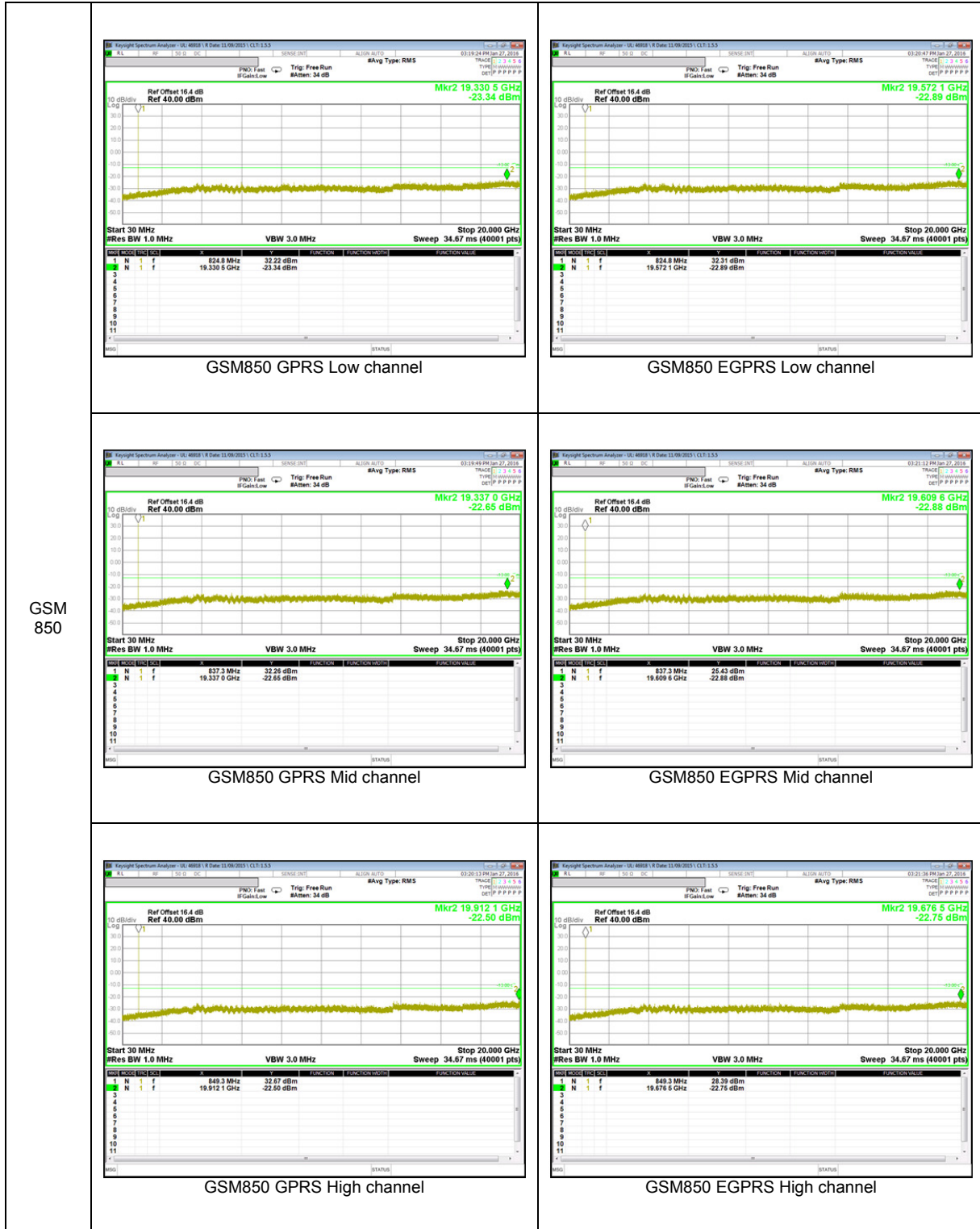
Bandwidth	Mode	f [MHz]	Spurious [dBm]	Limit [dBm]	Margin [dB]
20 MHz	QPSK	1720.0	-26.81	-13.00	13.81
		1732.5	-25.84		12.84
		1745.0	-26.22		13.22
	16QAM	1720.0	-25.55		12.55
		1732.5	-26.02		13.02
		1745.0	-26.73		13.73
15 MHz	QPSK	1717.5	-26.12		13.12
		1732.5	-26.46		13.46
		1747.5	-26.56		13.56
	16QAM	1717.5	-26.70		13.70
		1732.5	-26.62		13.62
		1747.5	-25.98		12.98
10 MHz	QPSK	1715.0	-26.10		13.10
		1732.5	-26.46		13.46
		1750.0	-26.83		13.83
	16QAM	1715.0	-26.75		13.75
		1732.5	-26.04		13.04
		1750.0	-24.99		11.99
5 MHz	QPSK	1712.5	-26.89	13.89	
		1732.5	-26.36	13.36	
		1752.5	-25.91	12.91	
	16QAM	1712.5	-26.64	13.64	
		1732.5	-26.09	13.09	
		1752.5	-26.61	13.61	
3 MHz	QPSK	1711.5	-26.19	13.19	
		1732.5	-26.04	13.04	
		1753.5	-26.27	13.27	
	16QAM	1711.5	-26.11	13.11	
		1732.5	-26.46	13.46	
		1753.5	-25.74	12.74	
1.4 MHz	QPSK	1710.7	-25.66	12.66	
		1732.5	-26.10	13.10	
		1754.3	-26.78	13.78	
	16QAM	1710.7	-25.28	12.28	
		1732.5	-25.98	12.98	
		1754.3	-26.30	13.30	

LTE 2

Bandwidth	Mode	f [MHz]	Spurious [dBm]	Limit [dBm]	Margin [dB]
20 MHz	QPSK	1860.0	-26.32	-13.00	13.32
		1880.0	-26.34		13.34
		1900.0	-26.34		13.34
	16QAM	1860.0	-25.59		12.59
		1880.0	-26.79		13.79
		1900.0	-25.76		12.76
15 MHz	QPSK	1857.5	-25.85		12.85
		1880.0	-26.80		13.80
		1902.5	-26.50		13.50
	16QAM	1857.5	-26.52		13.52
		1880.0	-26.50		13.50
		1902.5	-26.61		13.61
10 MHz	QPSK	1855.0	-25.63		12.63
		1880.0	-26.03		13.03
		1905.0	-26.69		13.69
	16QAM	1855.0	-26.31		13.31
		1880.0	-26.34		13.34
		1905.0	-26.97		13.97
5 MHz	QPSK	1852.5	-25.97	12.97	
		1880.0	-26.55	13.55	
		1907.5	-26.62	13.62	
	16QAM	1852.5	-26.54	13.54	
		1880.0	-26.31	13.31	
		1907.5	-26.27	13.27	
3 MHz	QPSK	1851.5	-25.89	12.89	
		1880.0	-26.32	13.32	
		1908.5	-26.29	13.29	
	16QAM	1851.5	-26.91	13.91	
		1880.0	-25.81	12.81	
		1908.5	-26.27	13.27	
1.4 MHz	QPSK	1850.7	-26.26	13.26	
		1880.0	-24.58	11.58	
		1909.3	-26.44	13.44	
	16QAM	1850.7	-26.37	13.37	
		1880.0	-25.20	12.20	
		1909.3	-26.43	13.43	

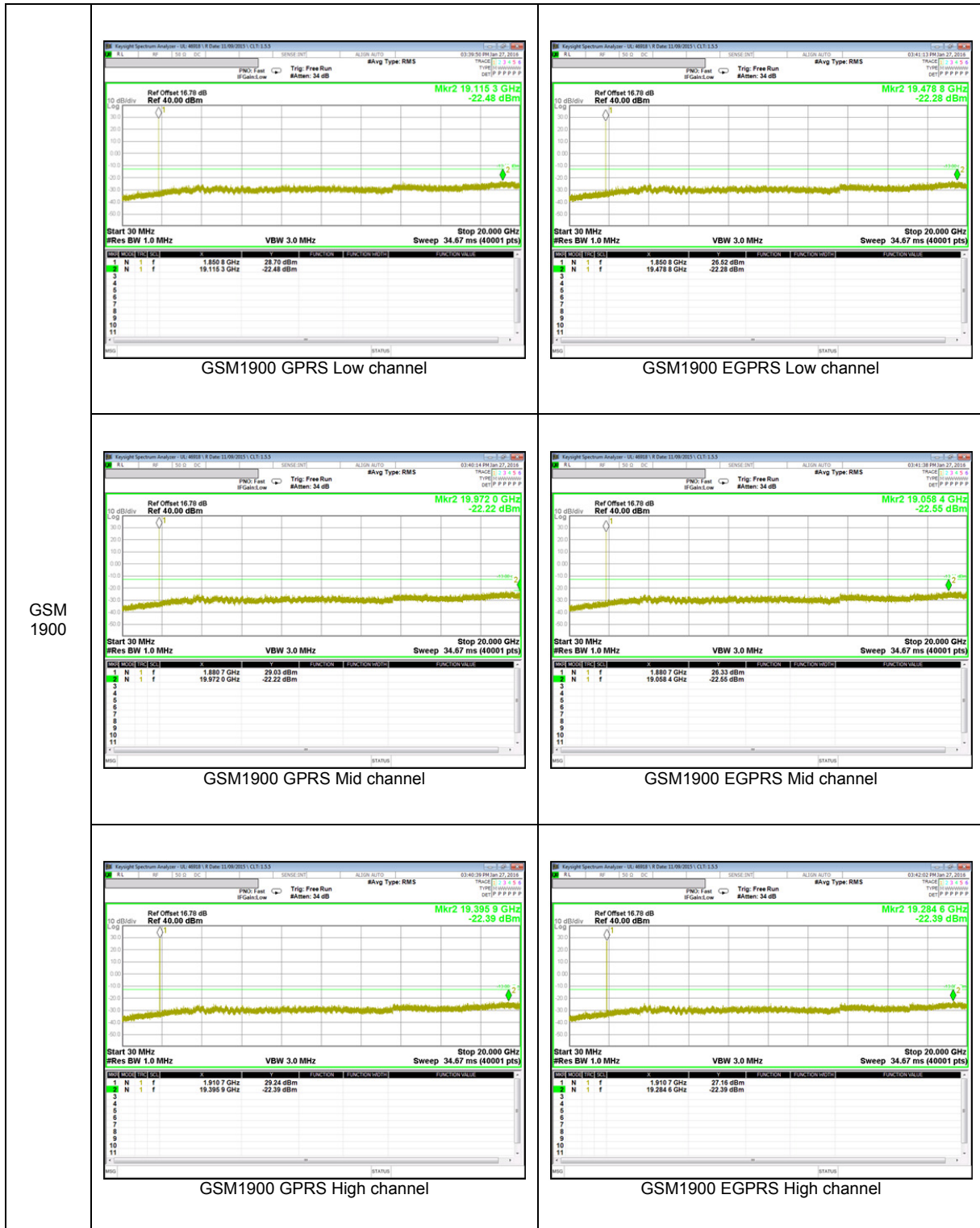
10.3.2. OUT OF BAND EMISSIONS PLOTS

GSM 850

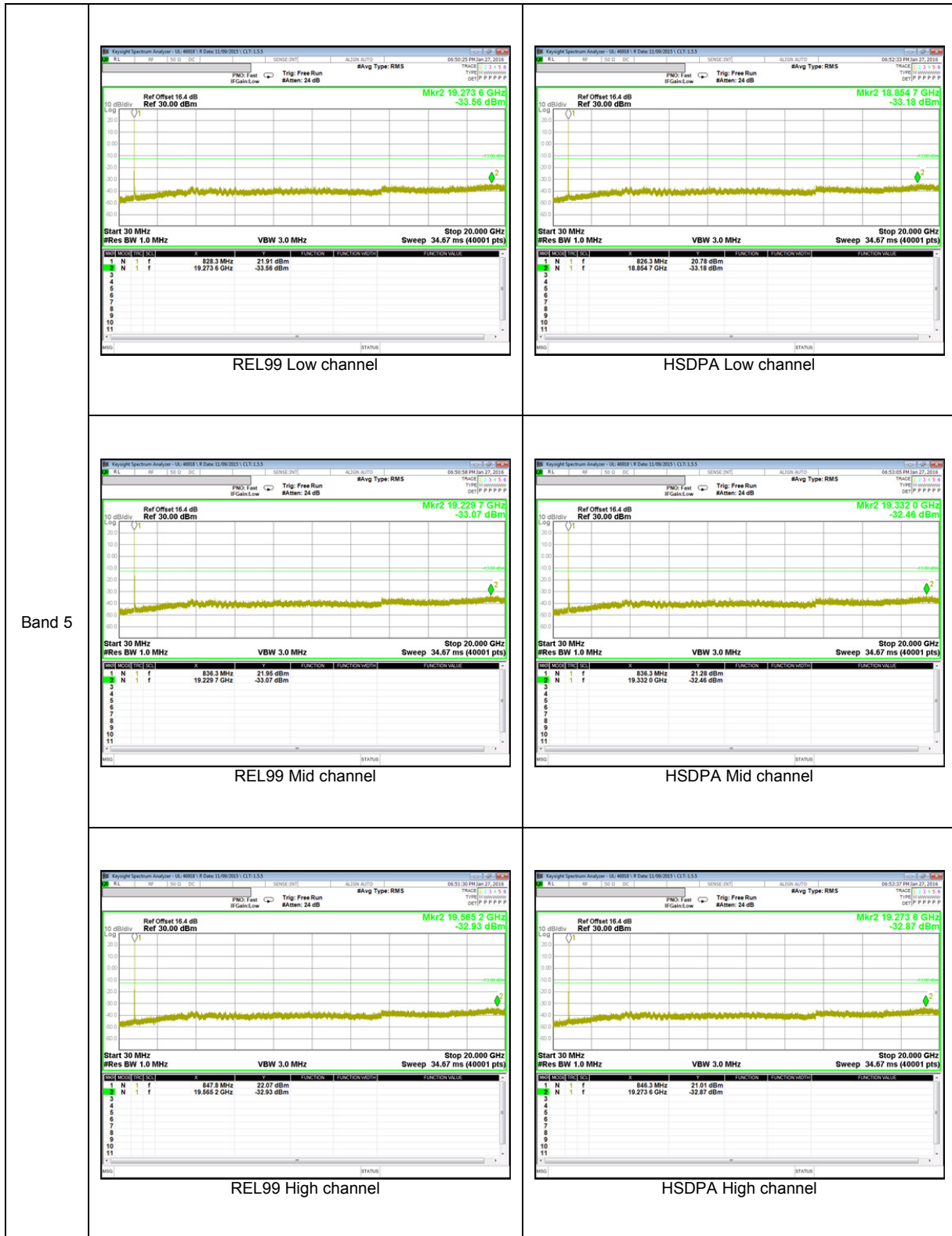


GSM
850

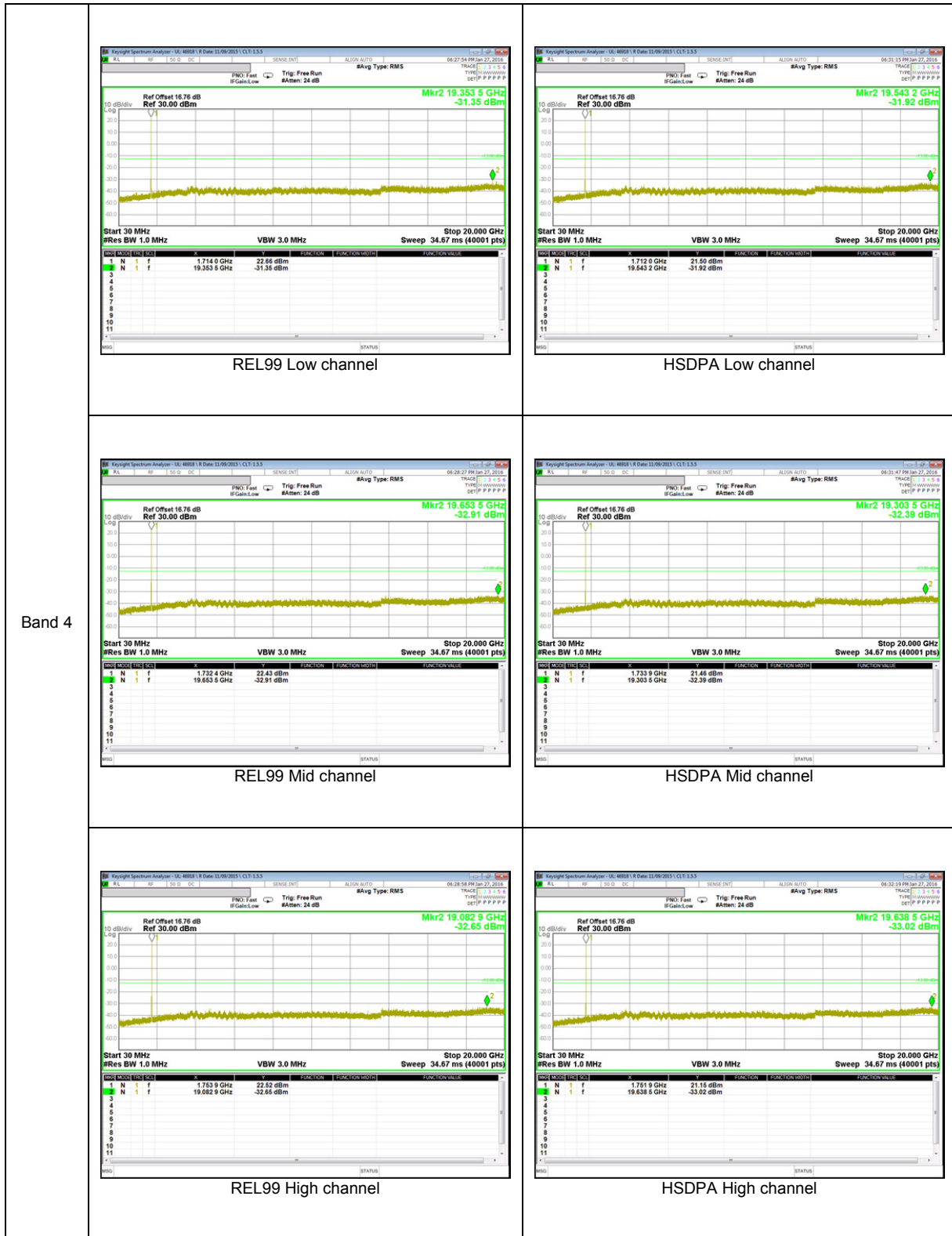
GSM 1900



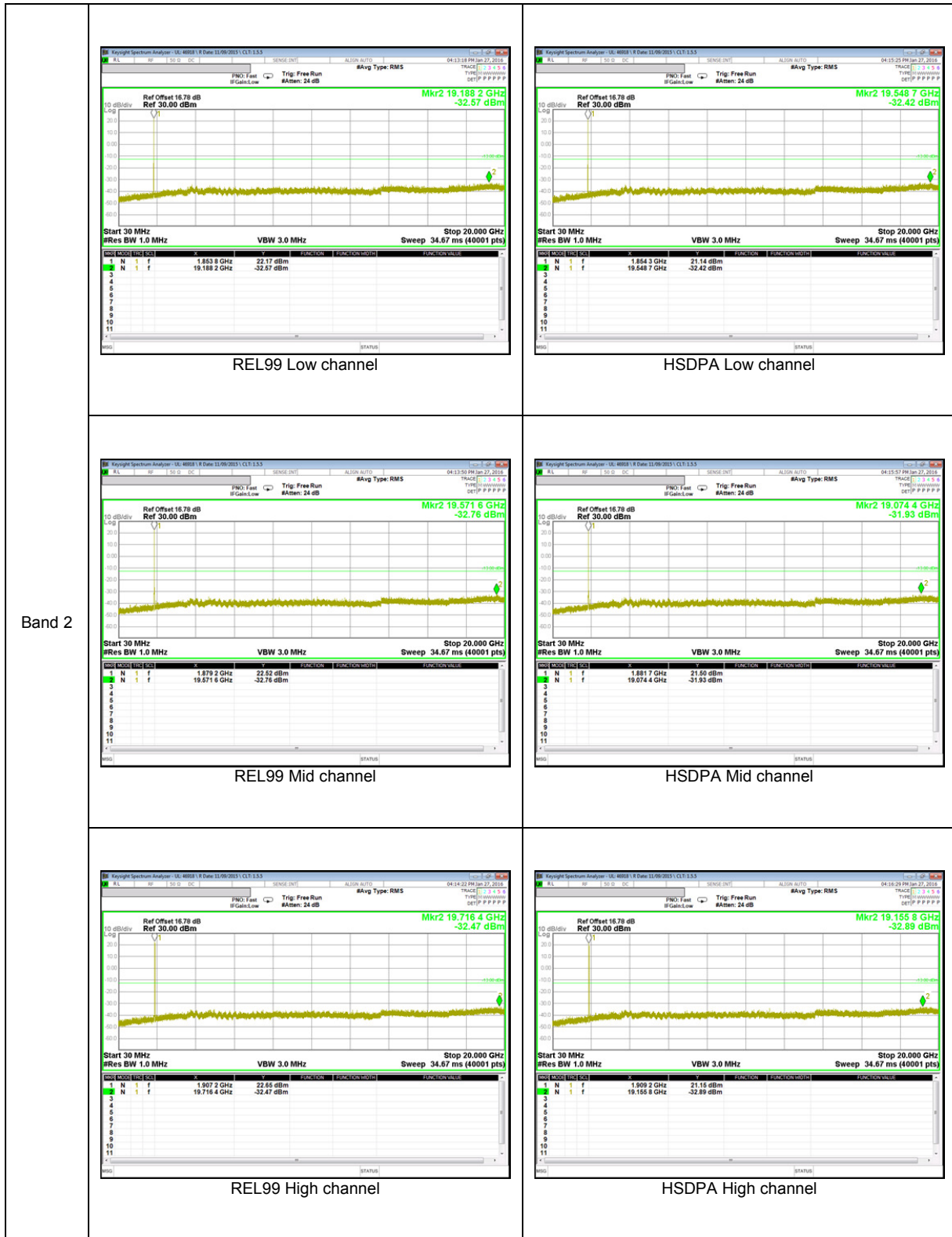
WCDMA Band 5



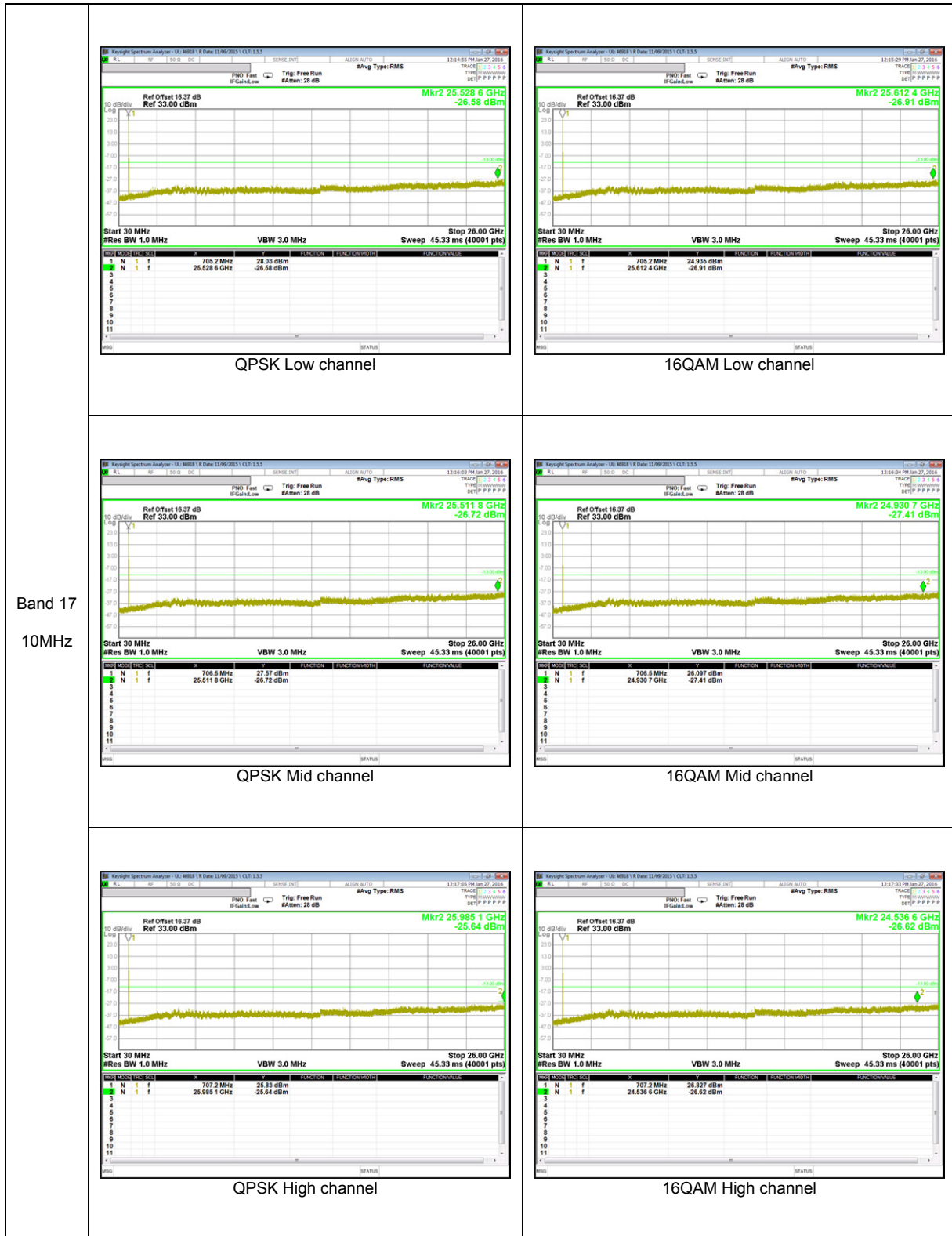
WCDMA Band 4

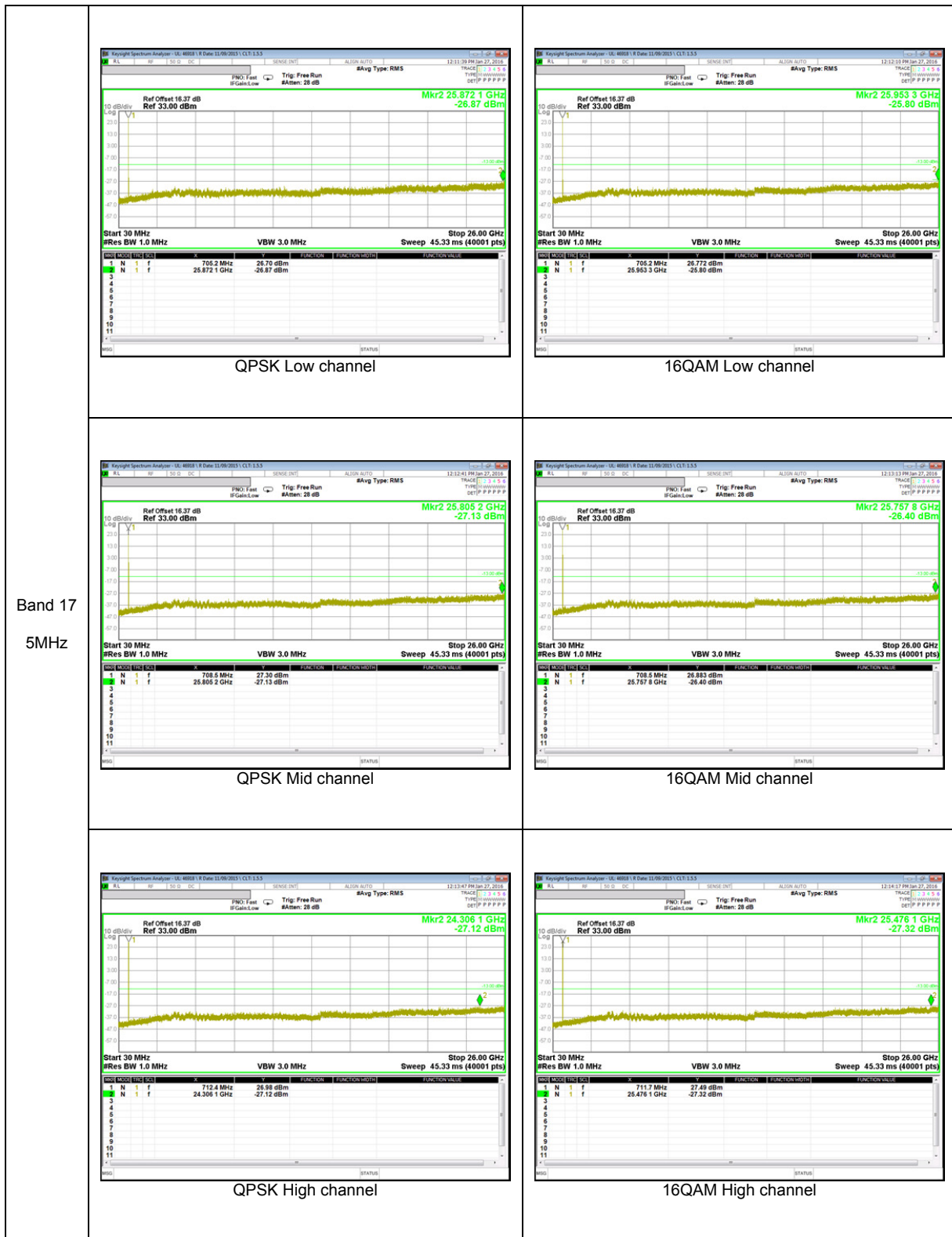


WCDMA Band 2



LTE Band 17





LTE Band 5

