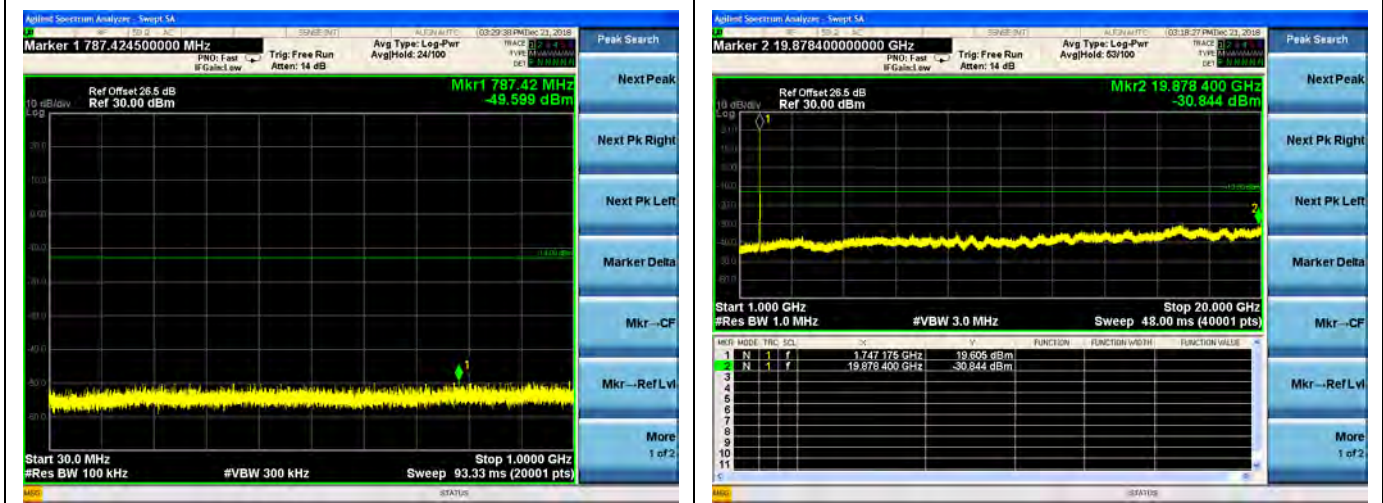


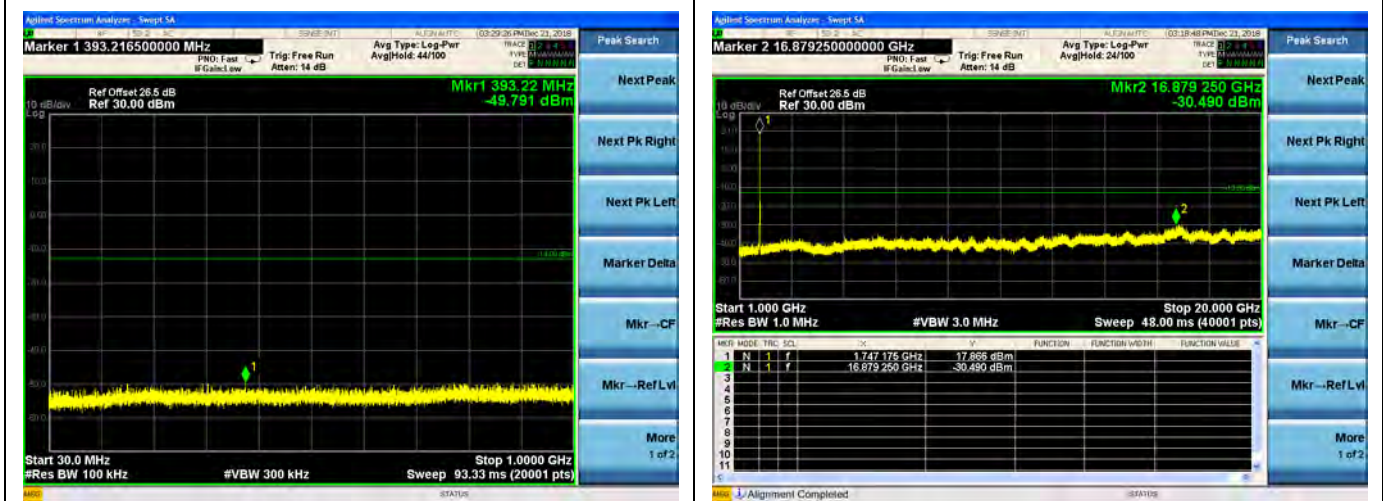


LTE Band 4 10MHz BW High Channel

QPSK



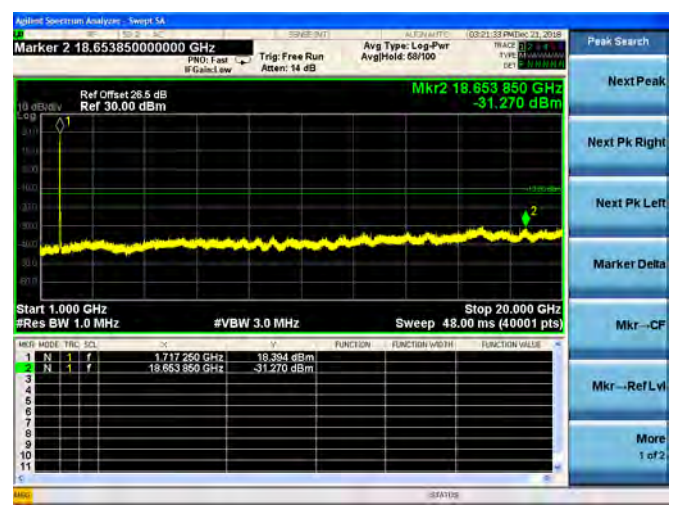
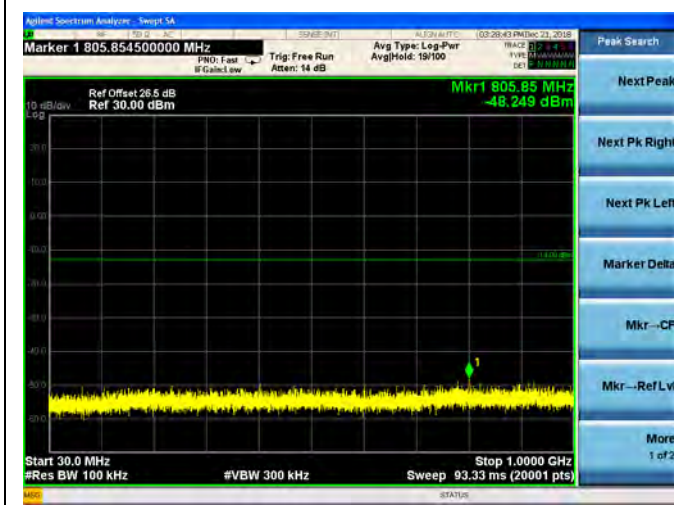
16QAM



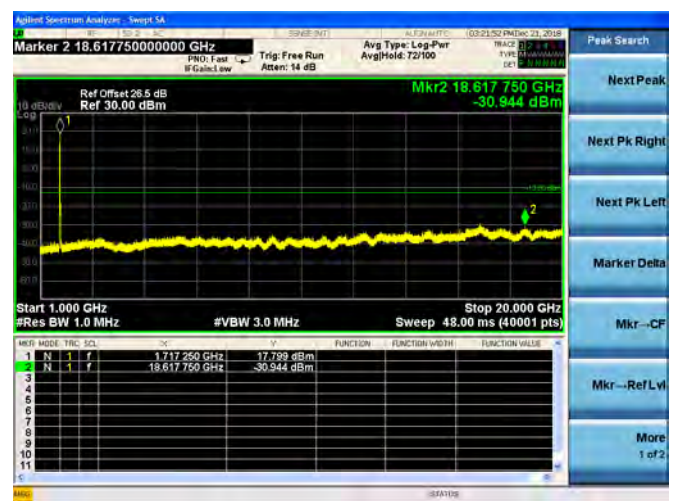
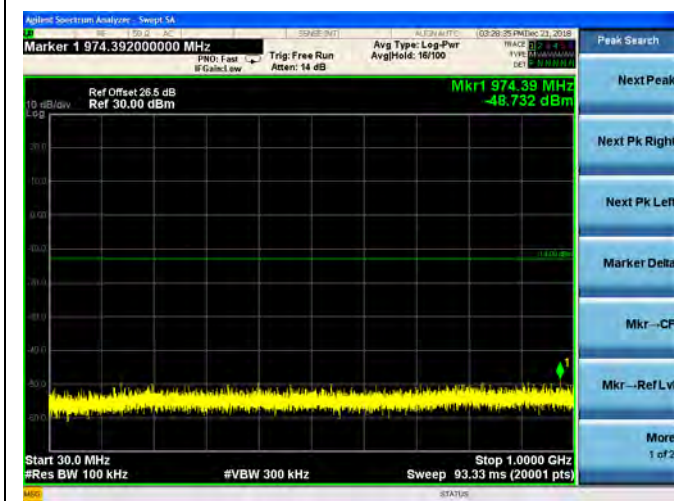


LTE Band 4 15MHz BW Low Channel

QPSK



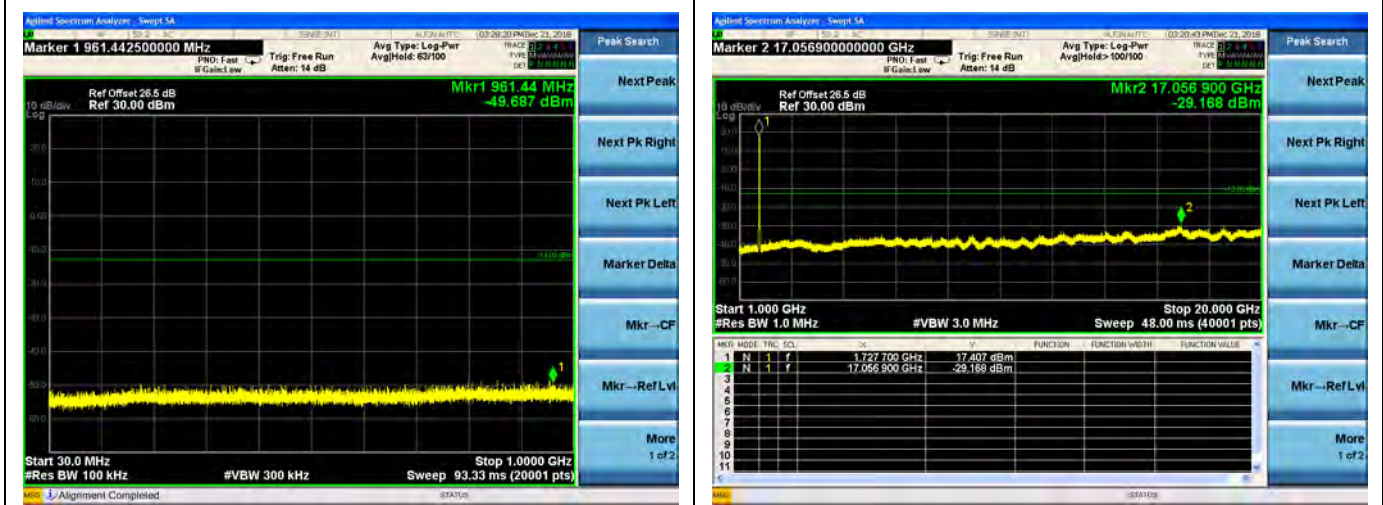
16QAM



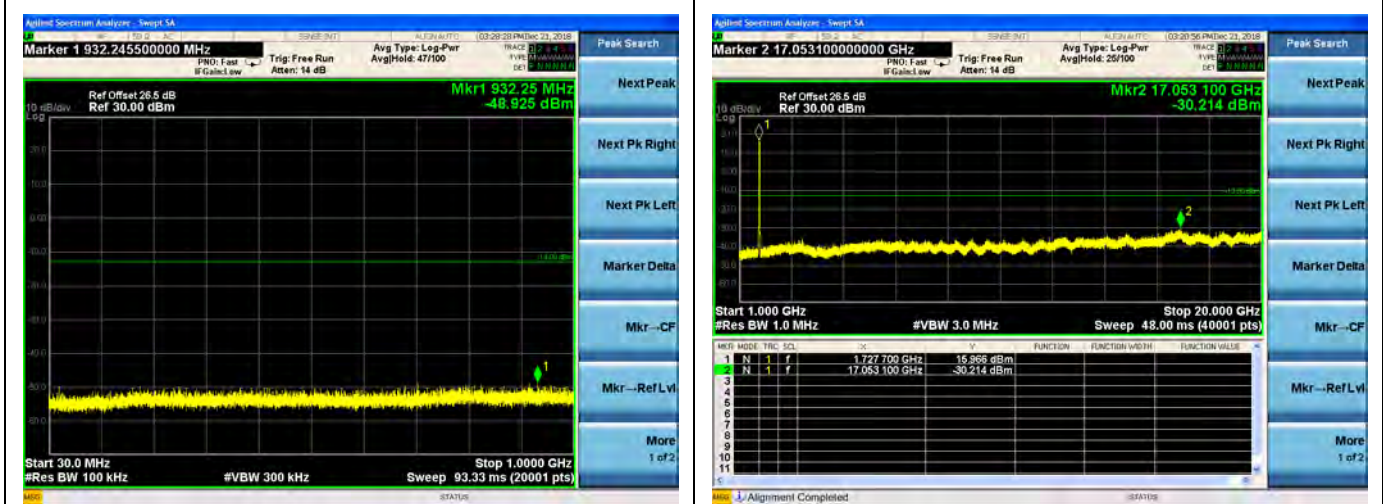


LTE Band 4 15MHz BW Mid Channel

QPSK



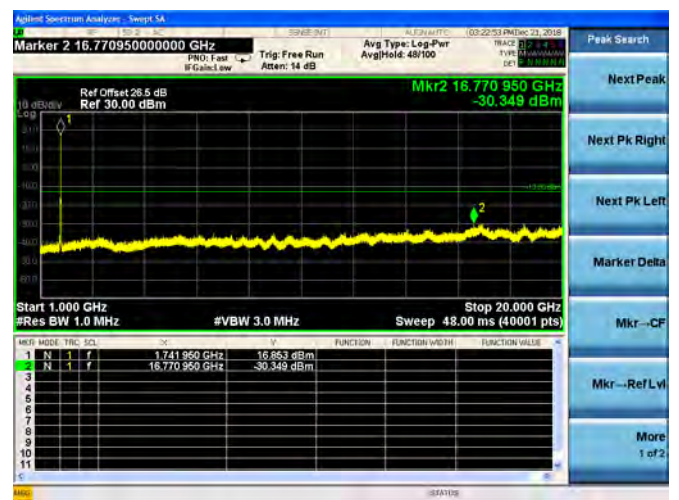
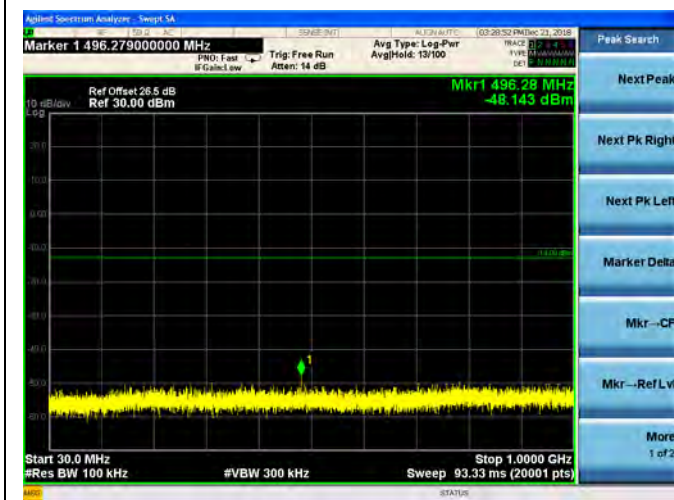
16QAM



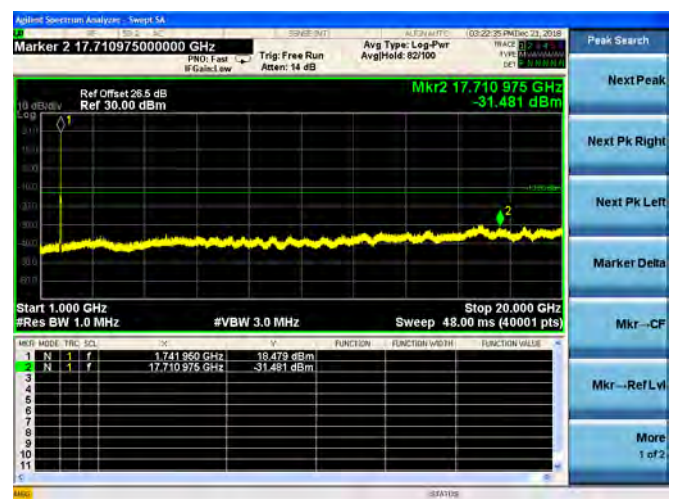
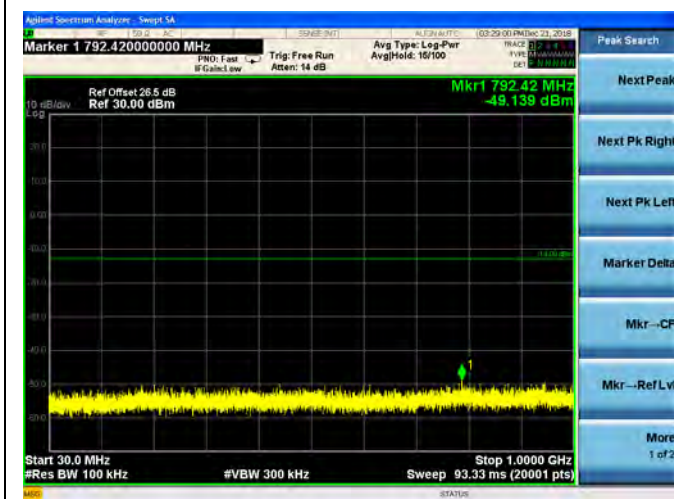


LTE Band 4 15MHz BW High Channel

QPSK



16QAM



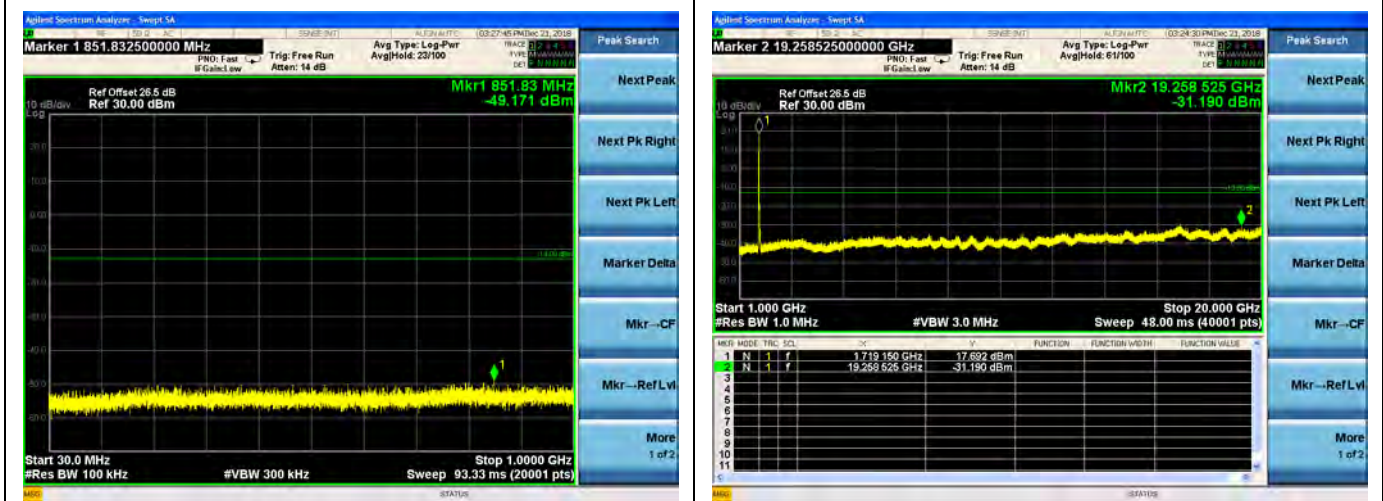


LTE Band 4 20MHz BW Low Channel

QPSK



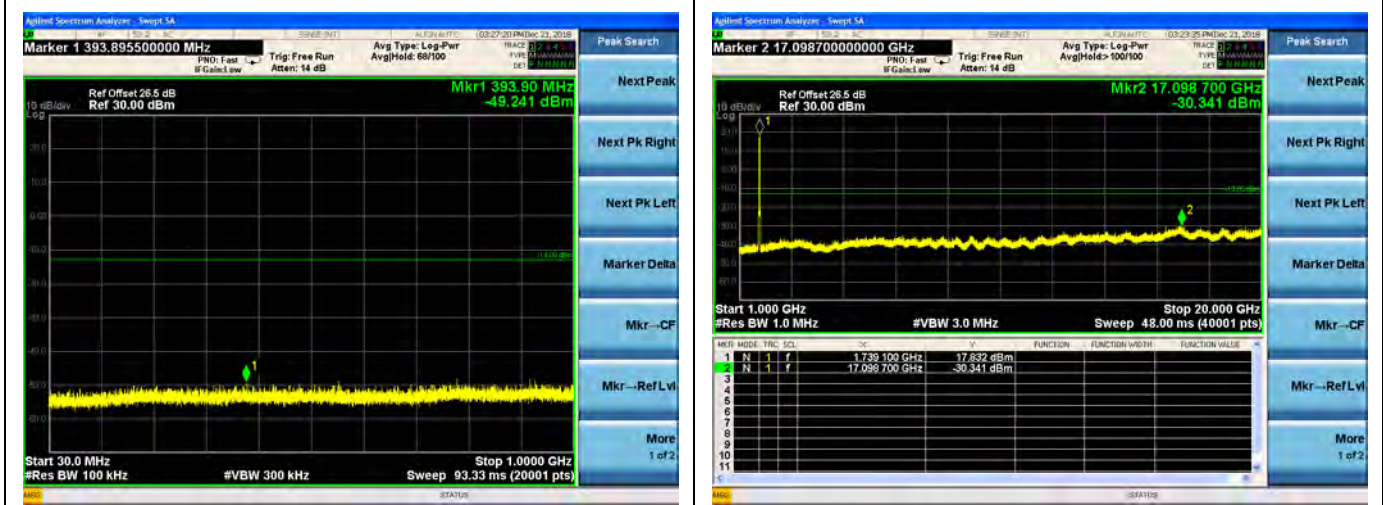
16QAM



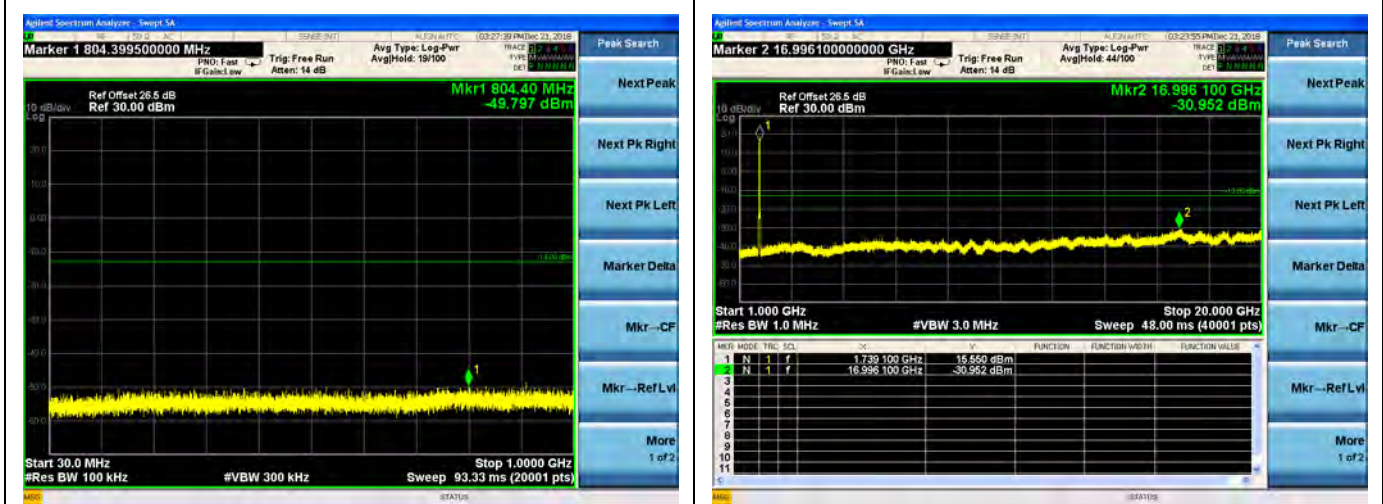


LTE Band 4 20MHz BW Mid Channel

QPSK



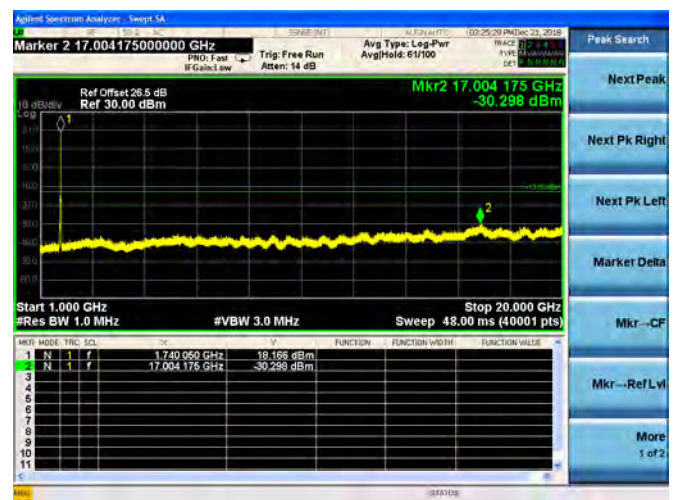
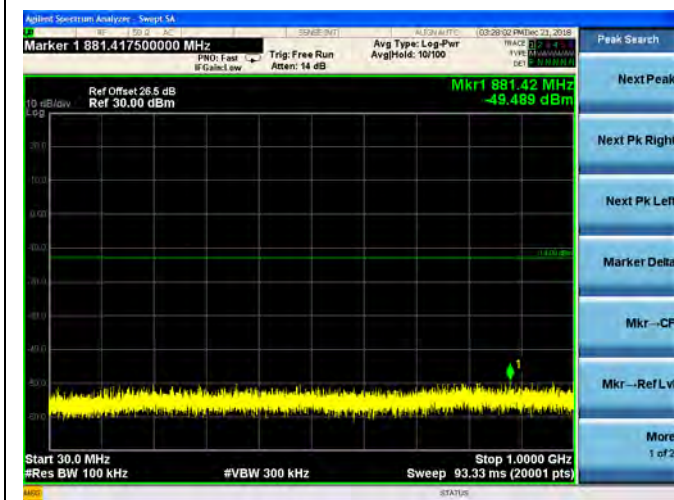
16QAM



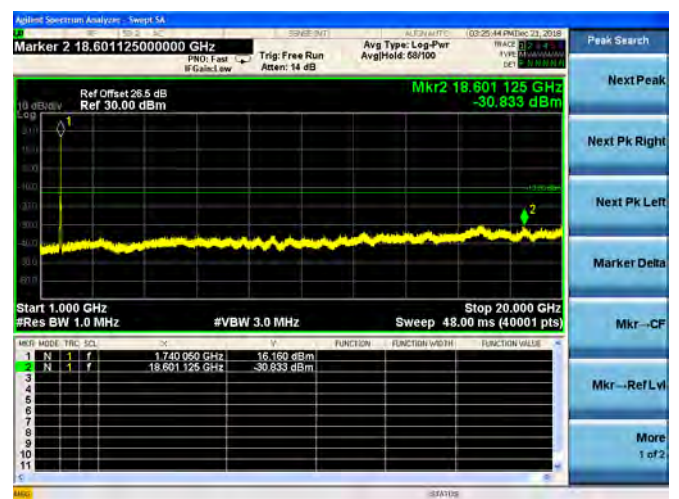
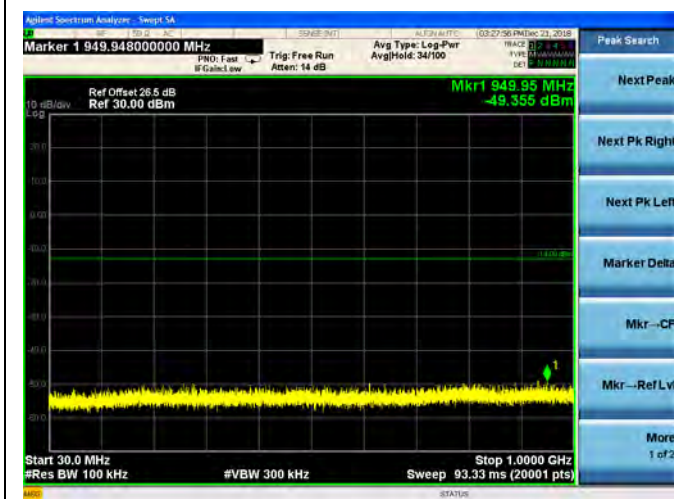


LTE Band 4 20MHz BW High Channel

QPSK



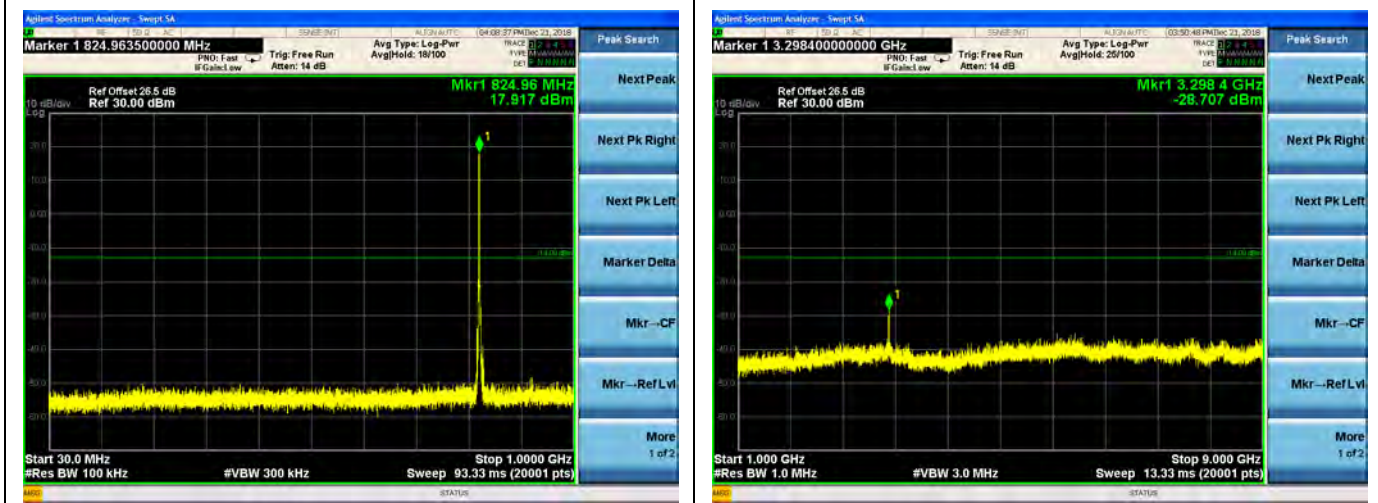
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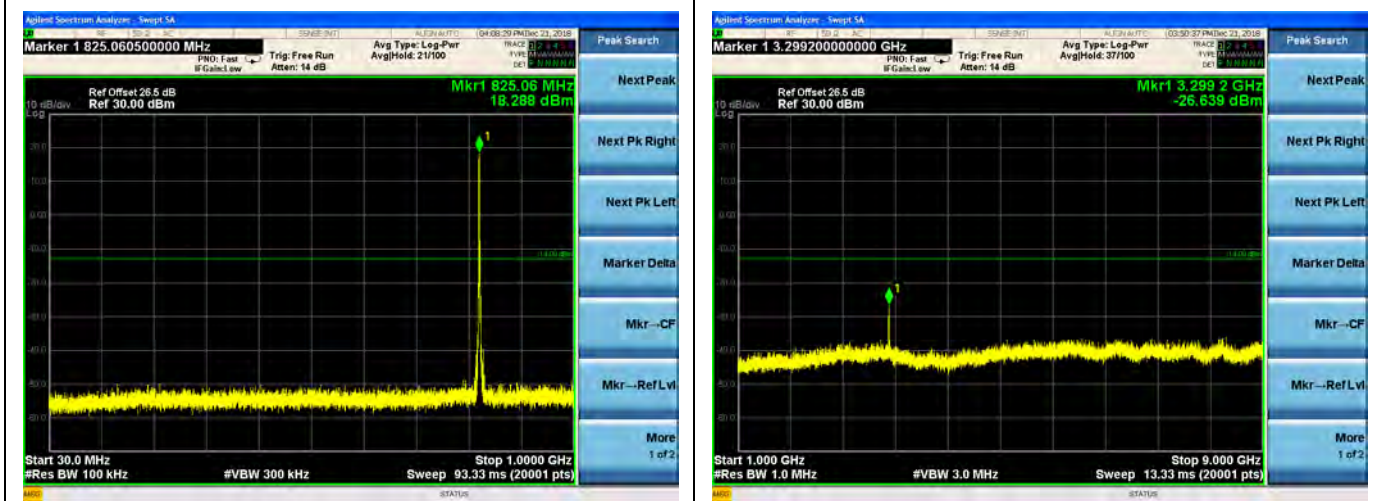


LTE Band 5 1.4MHz BW Low Channel

QPSK



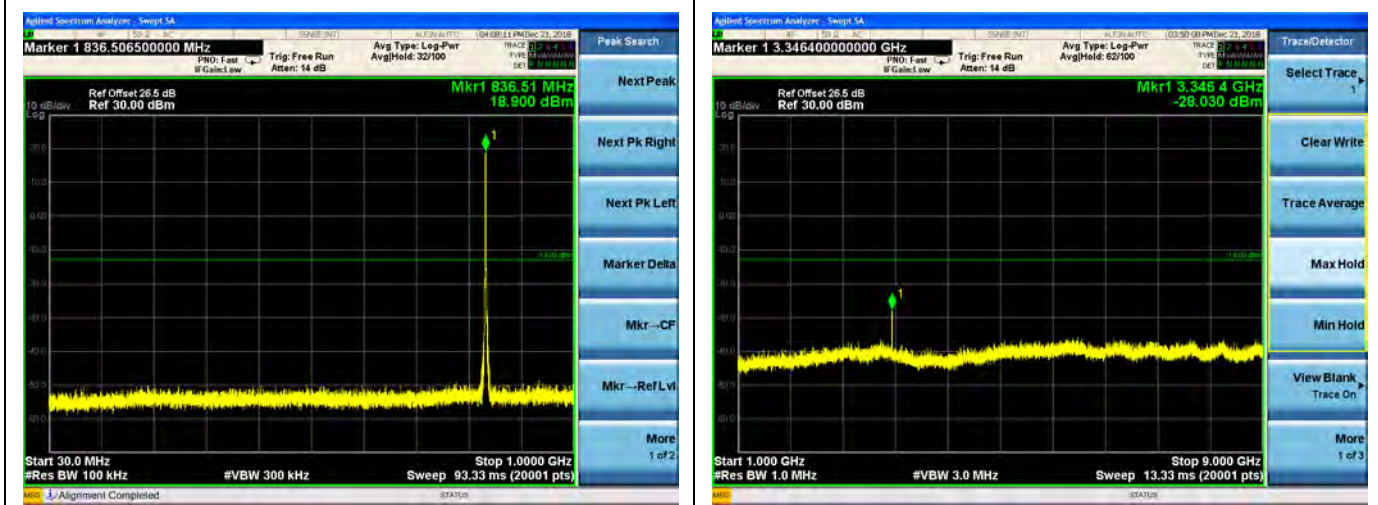
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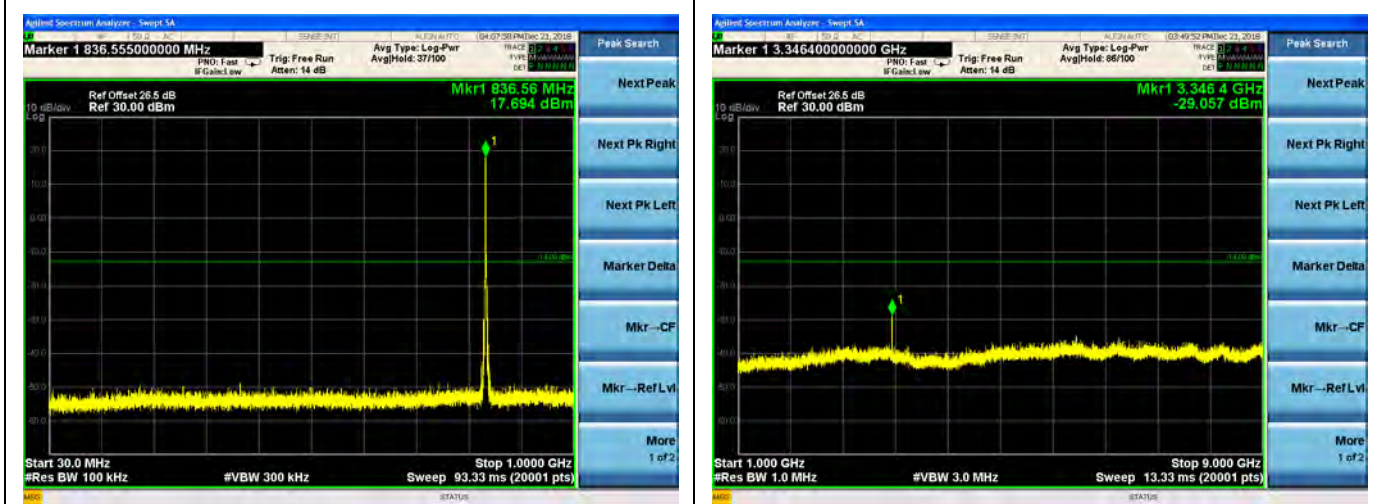


LTE Band 5 1.4MHz BW Mid Channel

QPSK



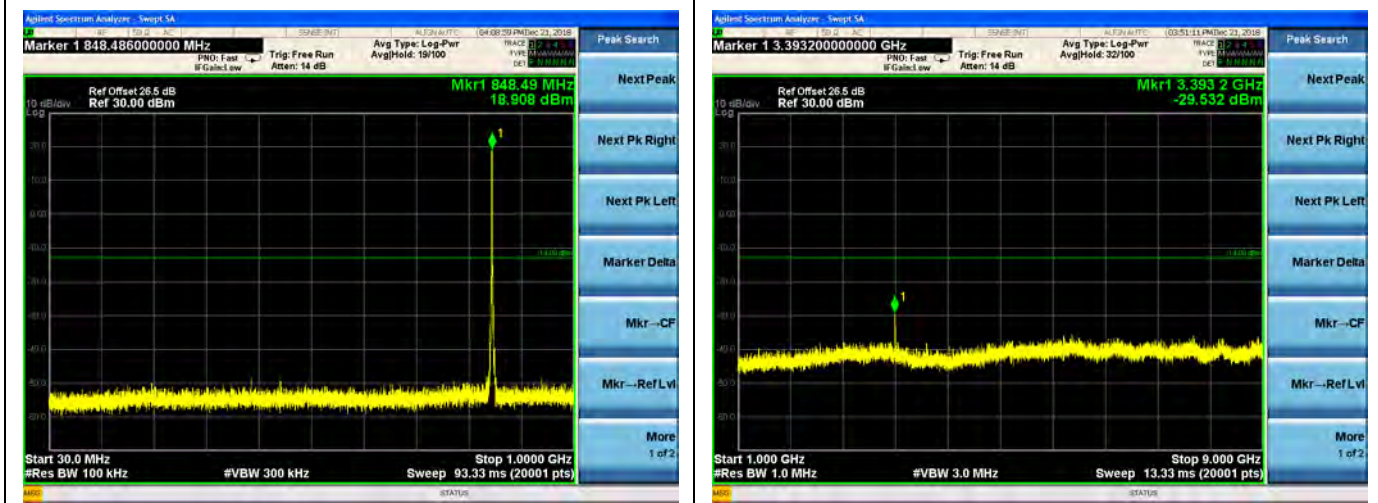
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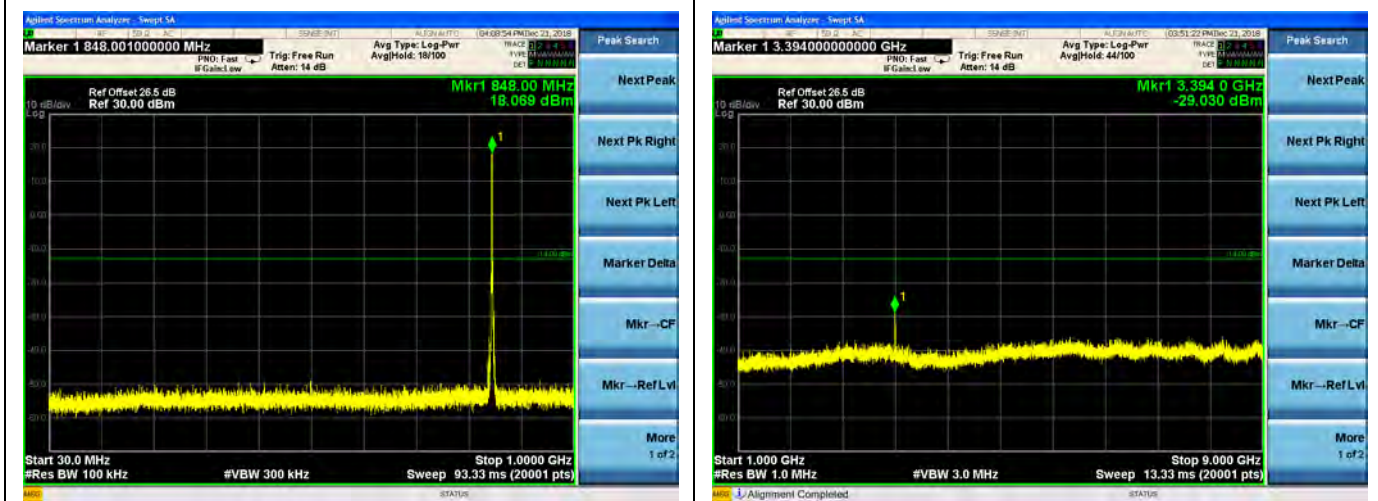


LTE Band 5 1.4MHz BW High Channel

QPSK



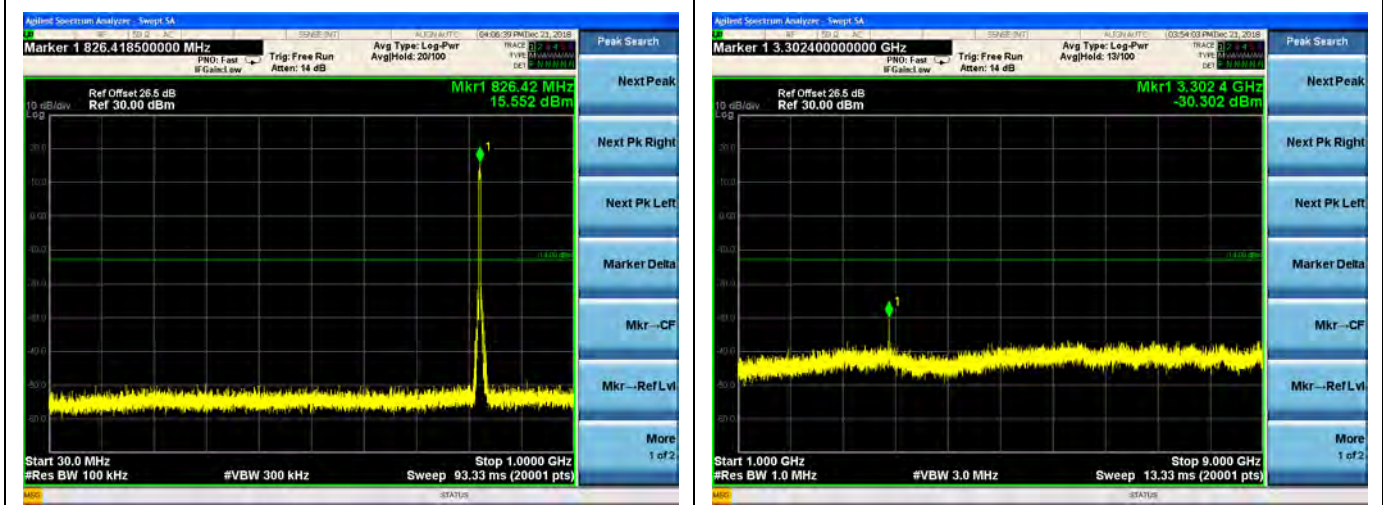
16QAM



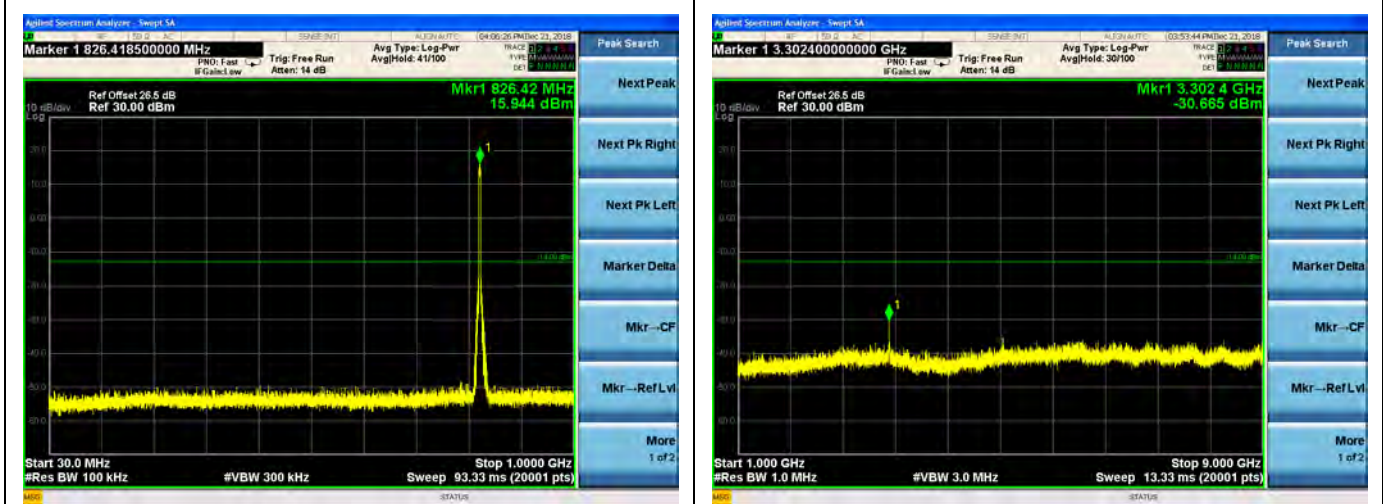


LTE Band 5 3MHz BW Low Channel

QPSK



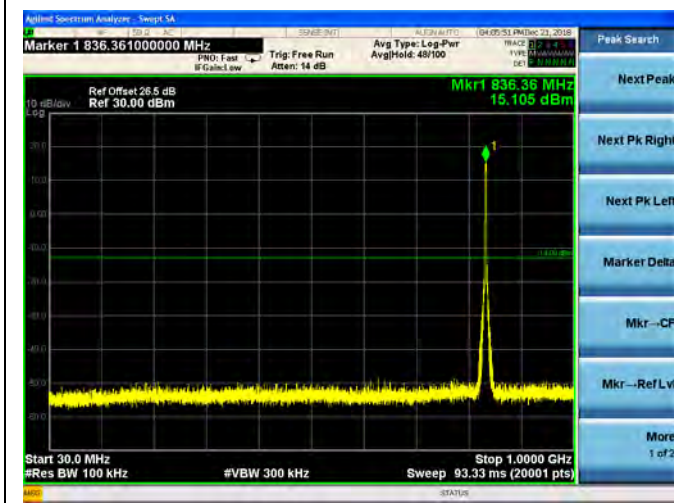
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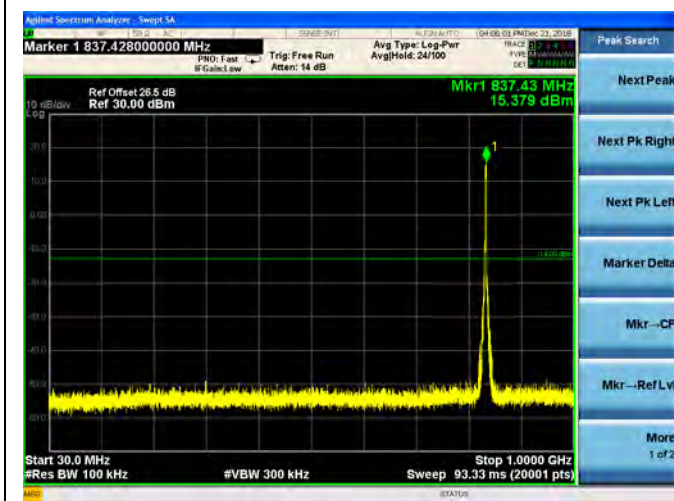


LTE Band 5 3MHz BW Mid Channel

QPSK



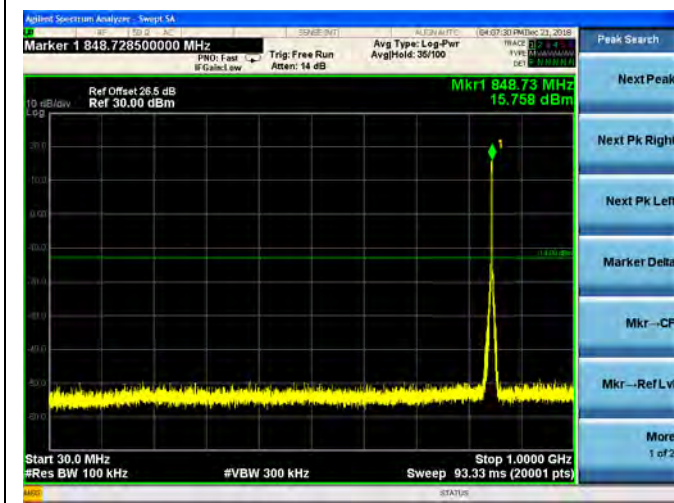
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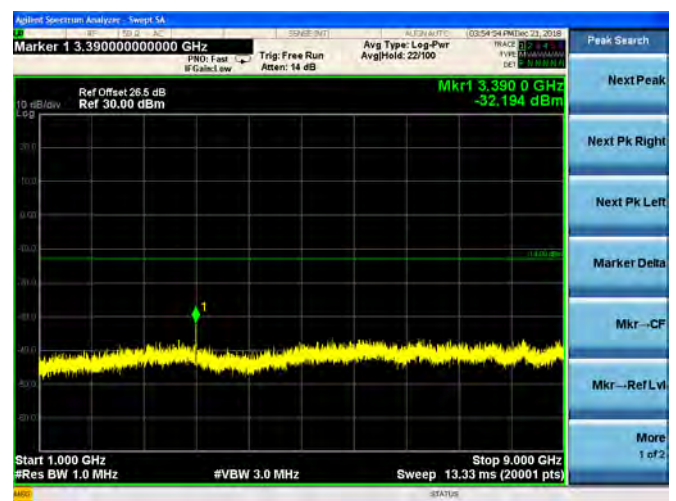
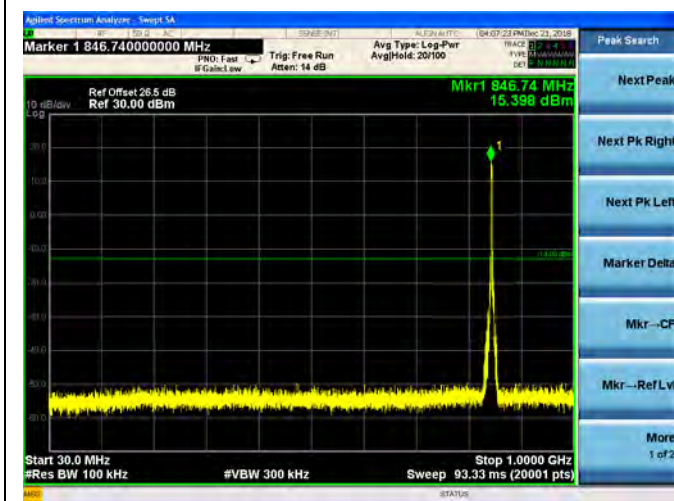


LTE Band 5 3MHz BW High Channel

QPSK



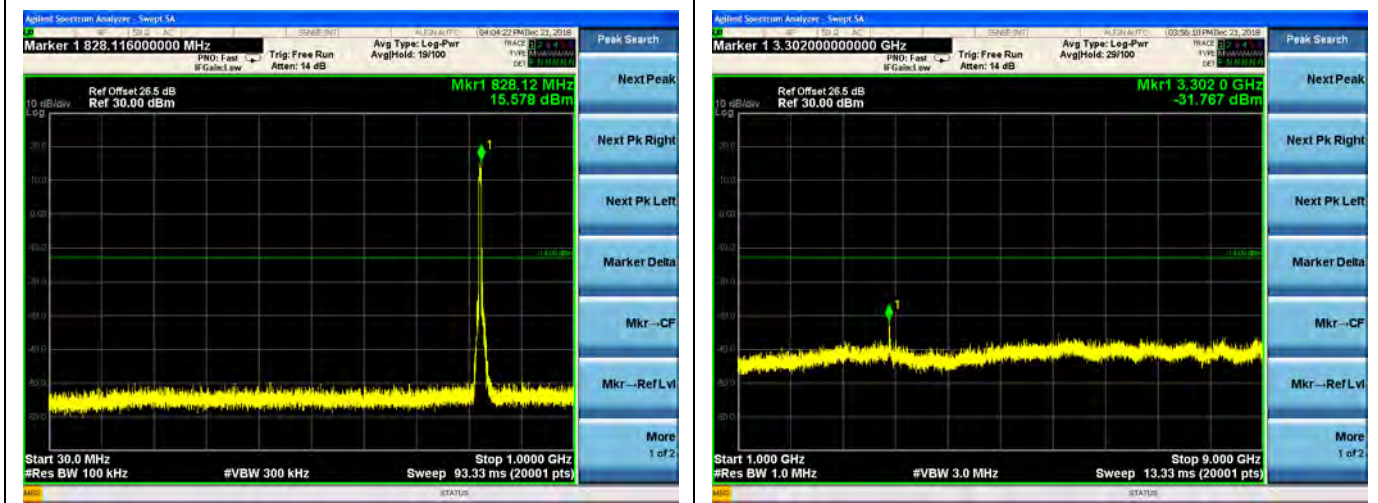
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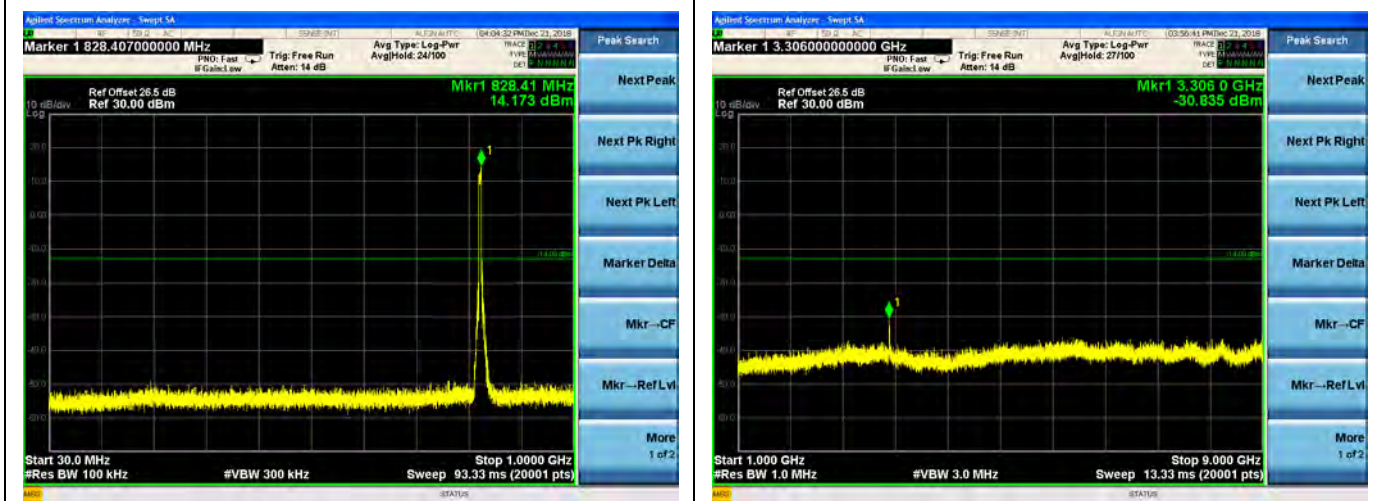


LTE Band 5 5MHz BW Low Channel

QPSK



16QAM

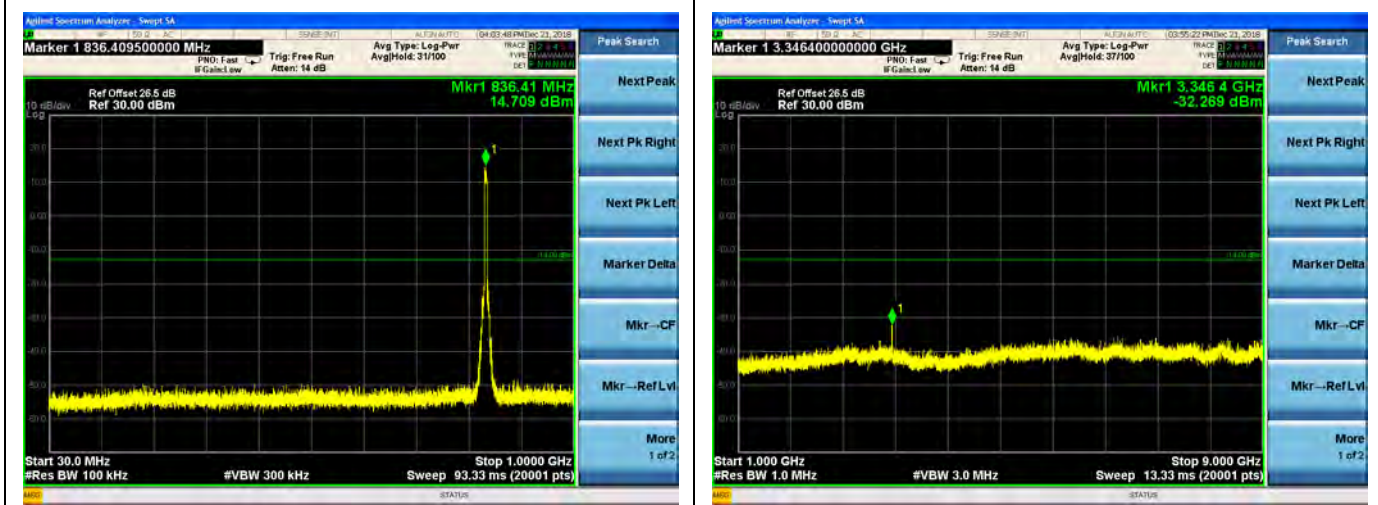




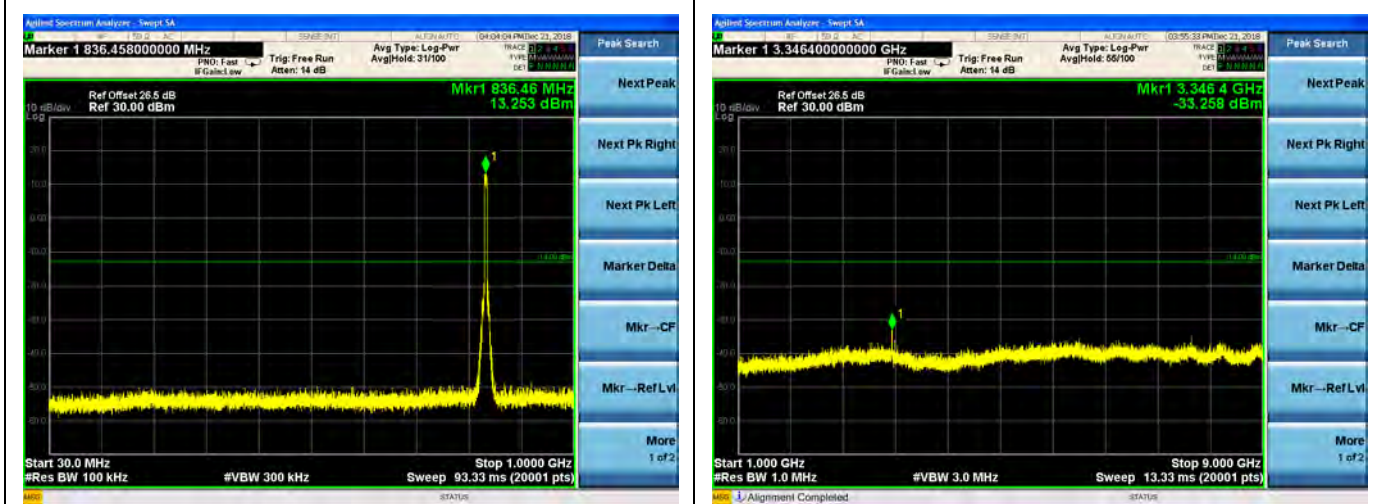
REPORT No.: SZ18090337W08

LTE Band 5 5MHz BW Mid Channel

QPSK



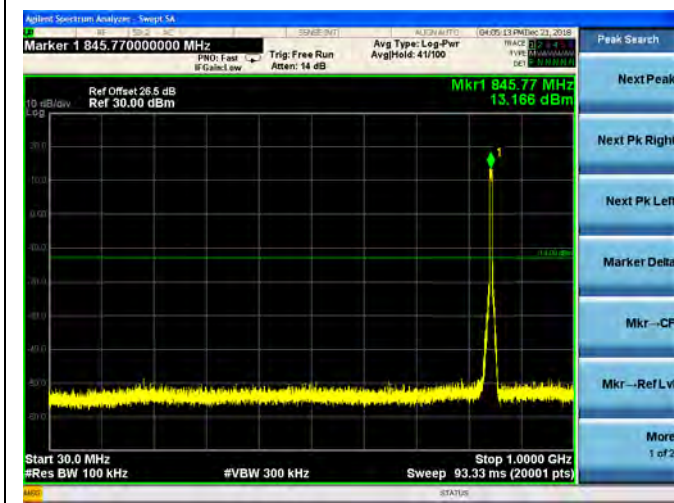
16QAM



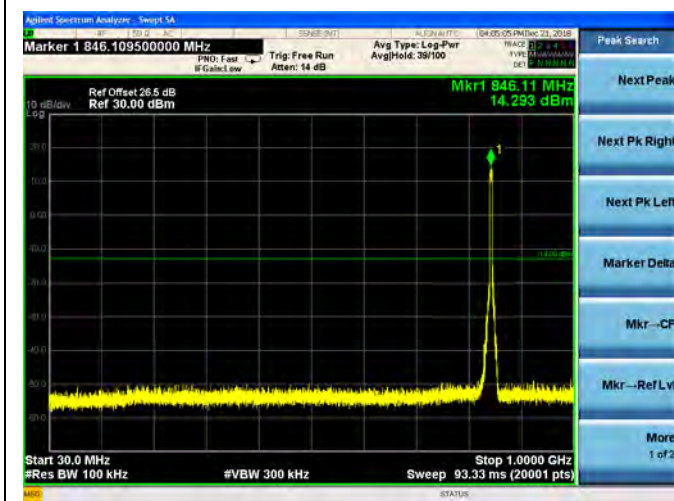


LTE Band 5 5MHz BW High Channel

QPSK



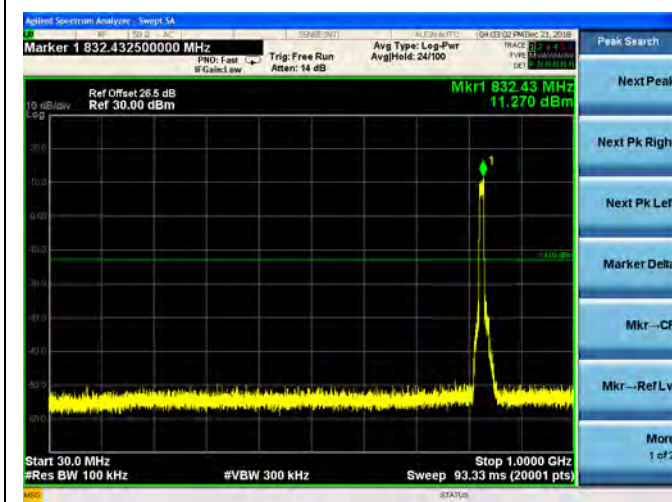
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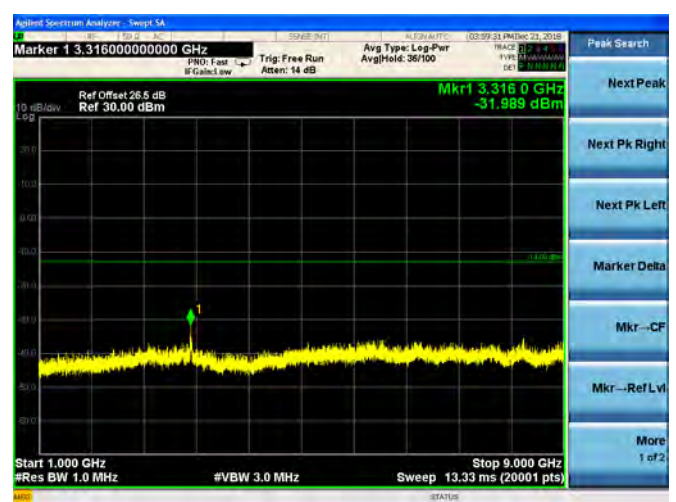
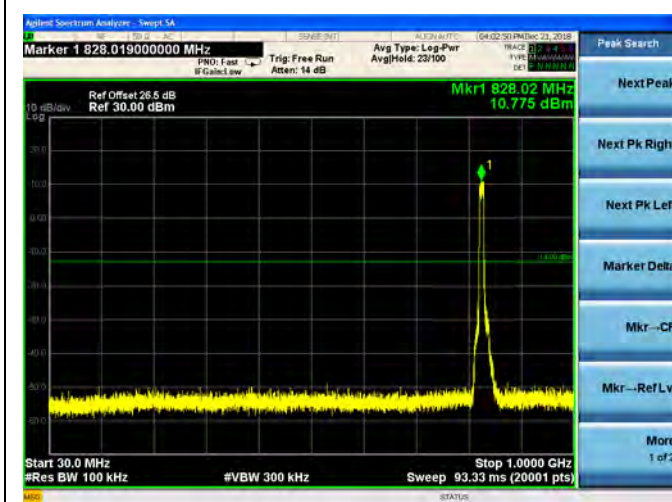


LTE Band 5 10MHz BW Low Channel

QPSK



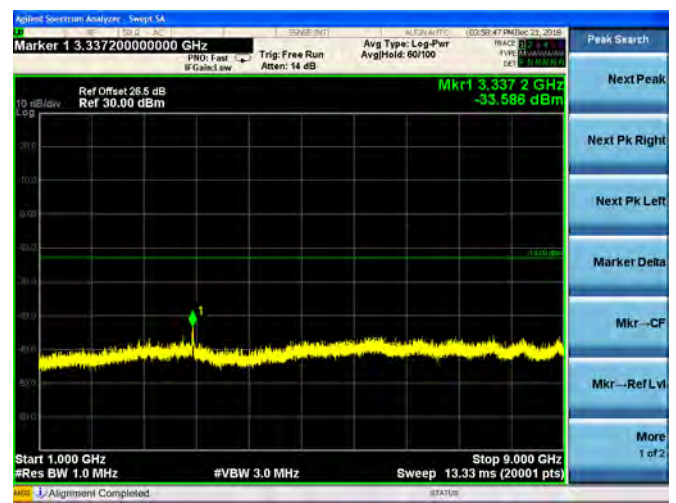
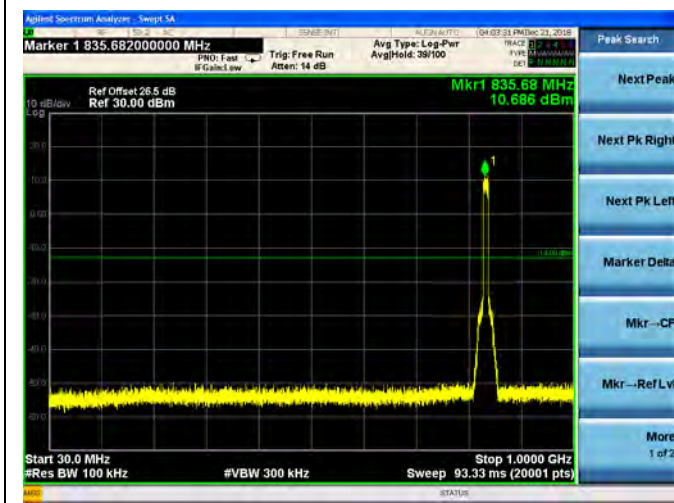
16QAM



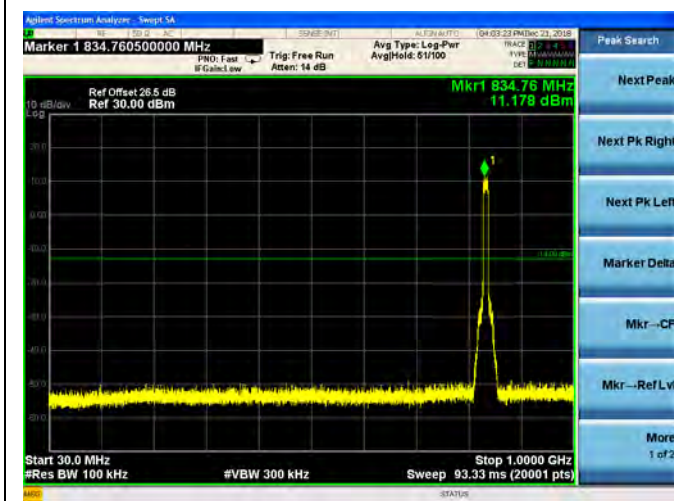


LTE Band 5 10MHz BW Mid Channel

QPSK



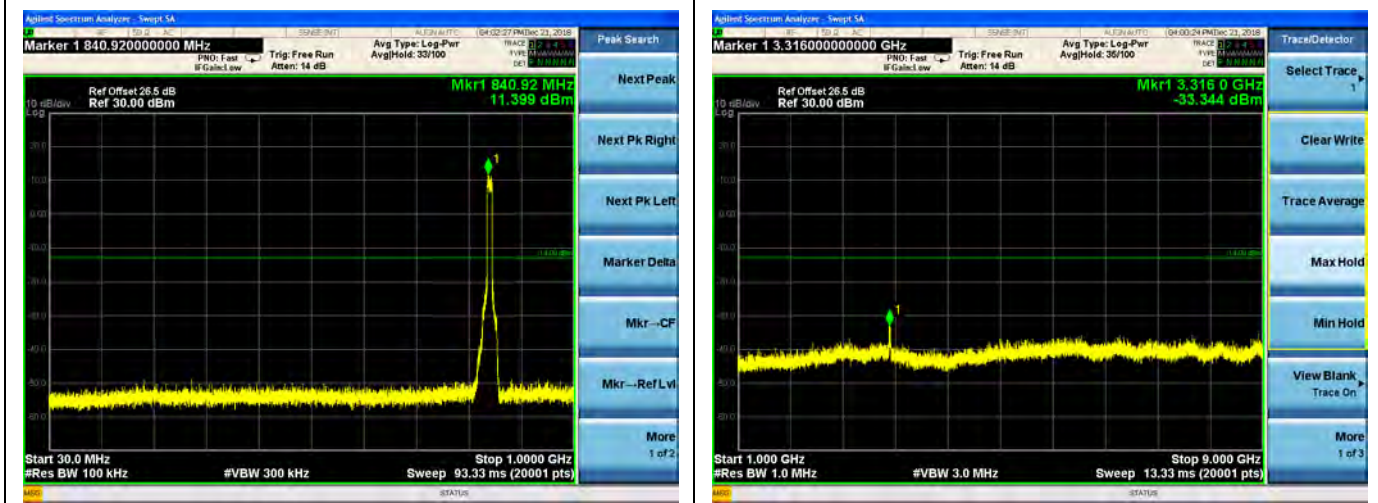
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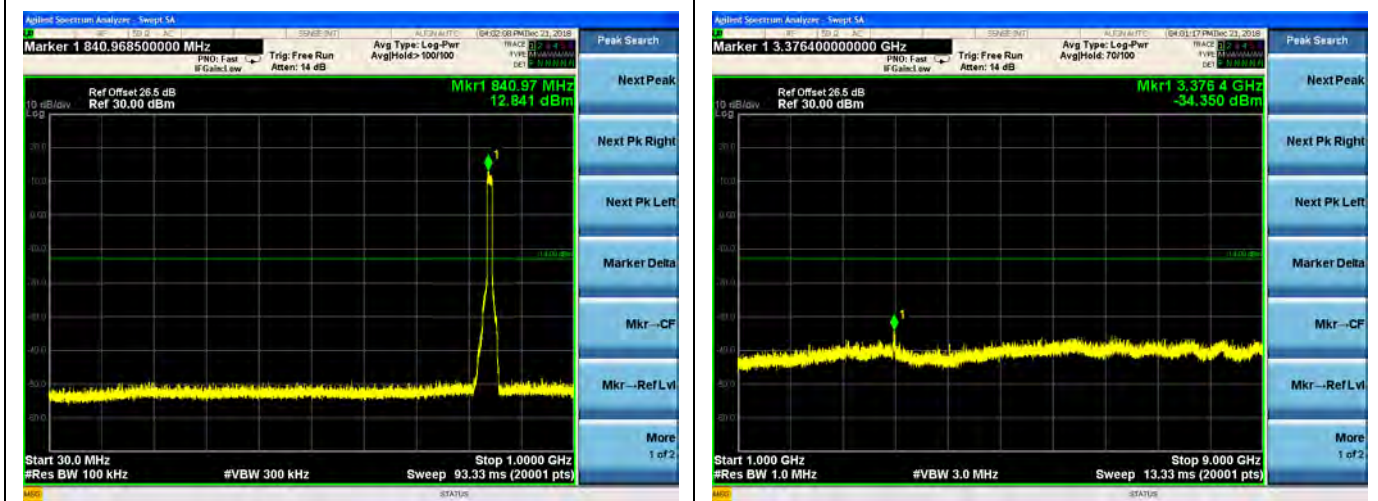


LTE Band 5 10MHz BW High Channel

QPSK



16QAM





LTE Band 7 5MHz BW Low Channel

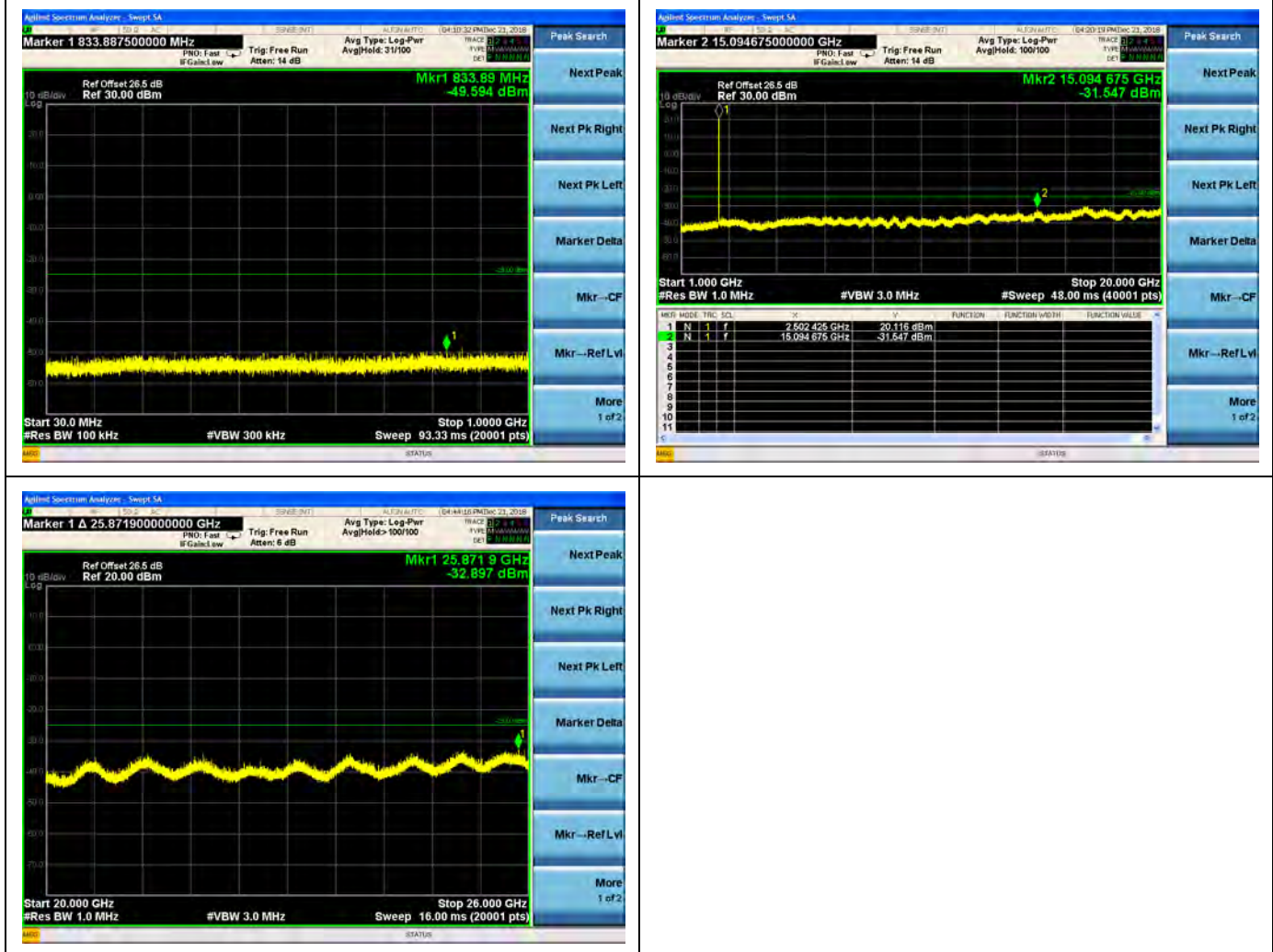
QPSK





LTE Band 7 5MHz BW Low Channel

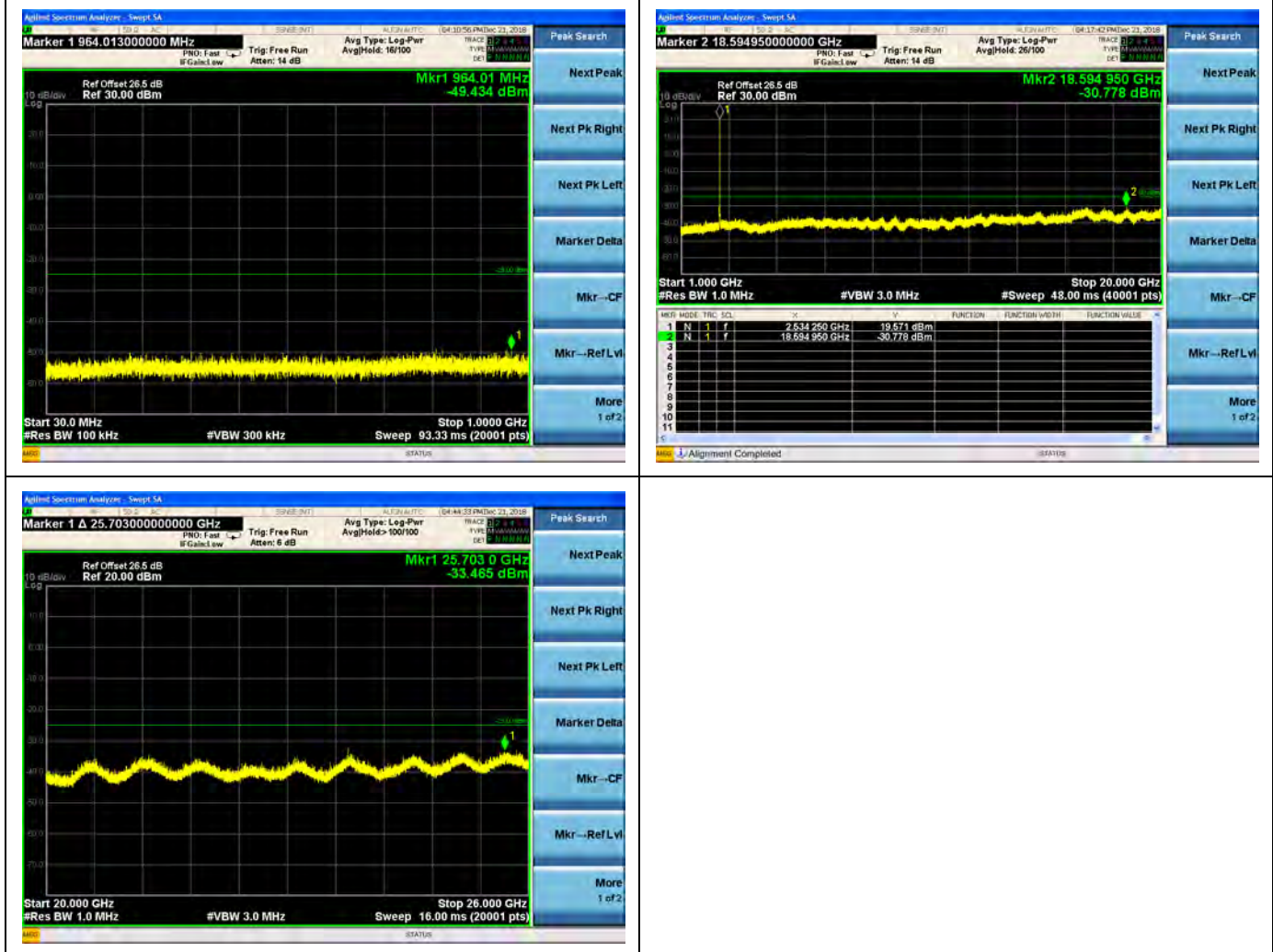
16QAM





LTE Band 7 5MHz BW Mid Channel

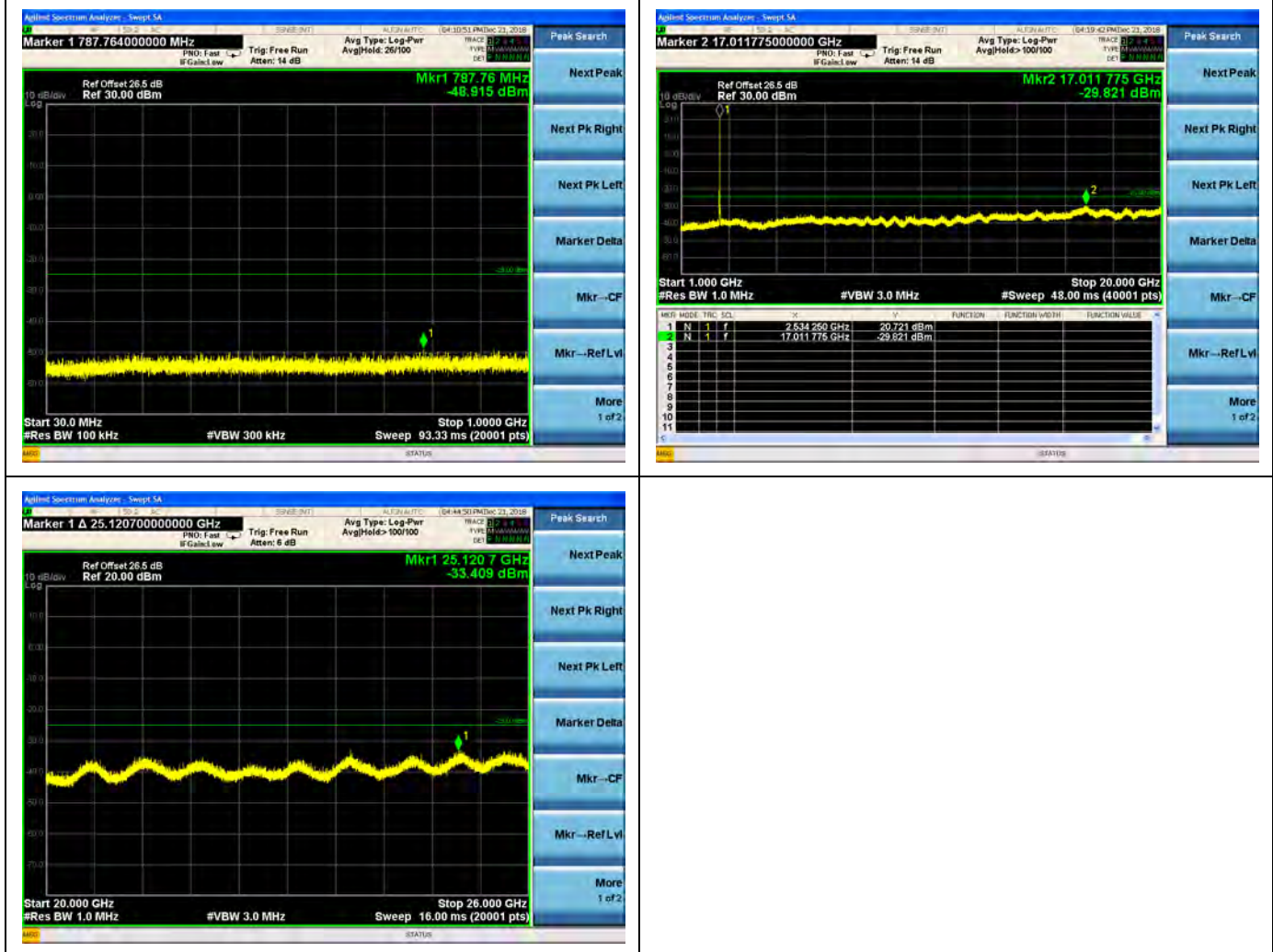
QPSK





LTE Band 7 5MHz BW Mid Channel

16QAM





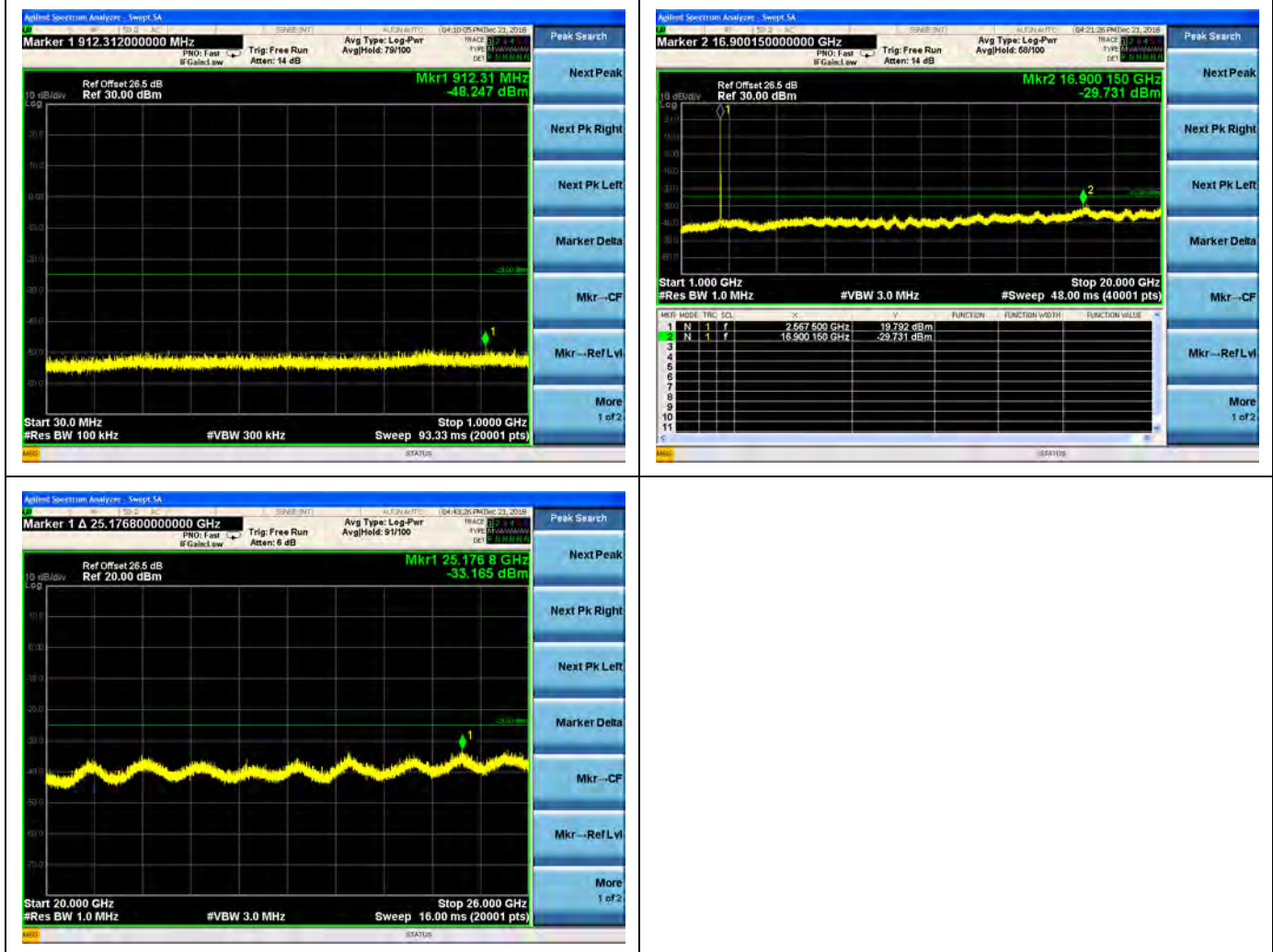
QPSK

REF ID	MODE	TRF	EQ	X	Y	FUNCTION	FUNCTION VALUE	FUNCTION VALUE
1	N	1	f	2.567 500 GHz	19.454 dBm			
2	N	1	f	9.395 625 GHz	-33.193 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								



LTE Band 7 5MHz BW High Channel

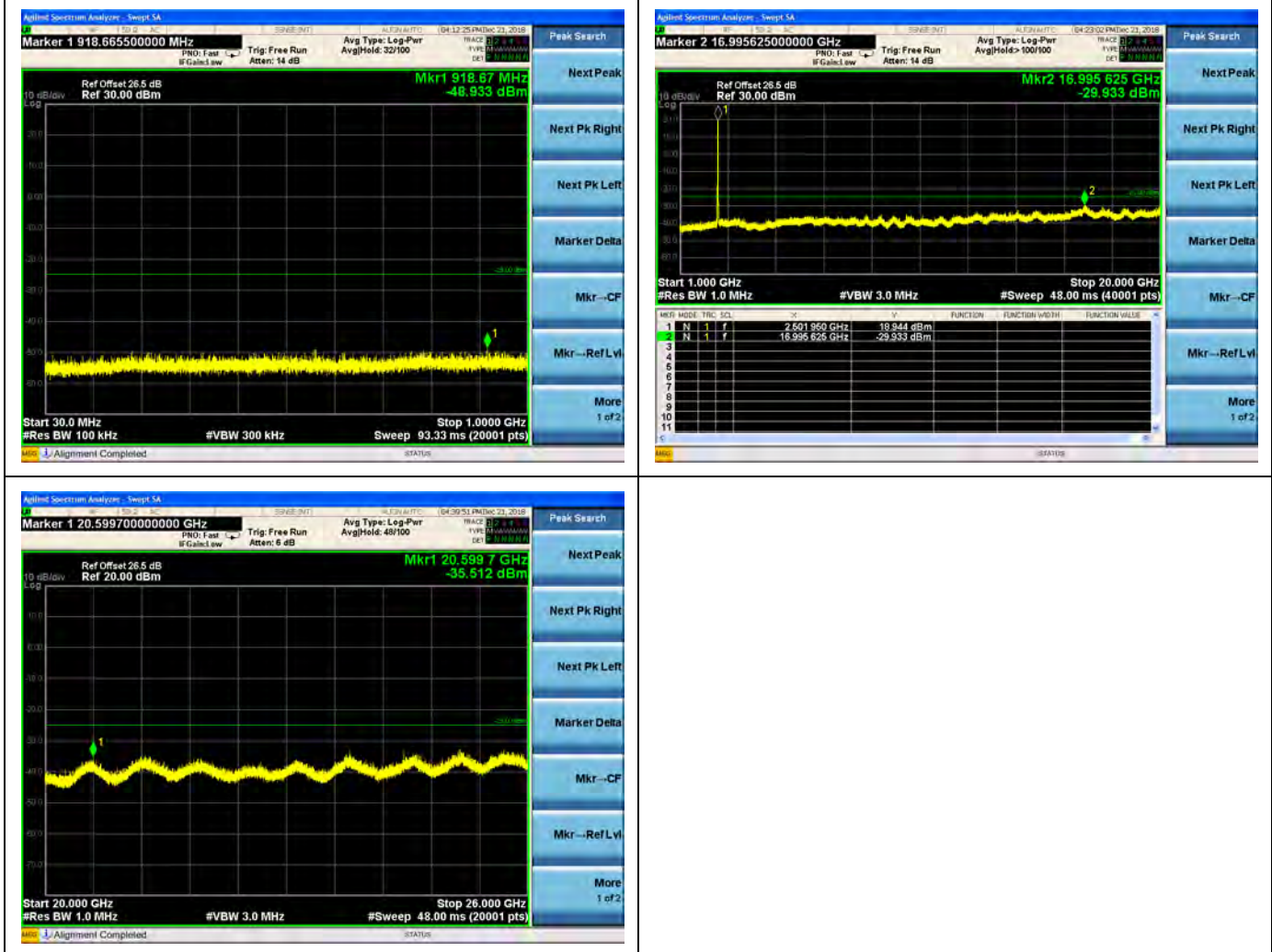
16QAM





LTE Band 7 10MHz BW Low Channel

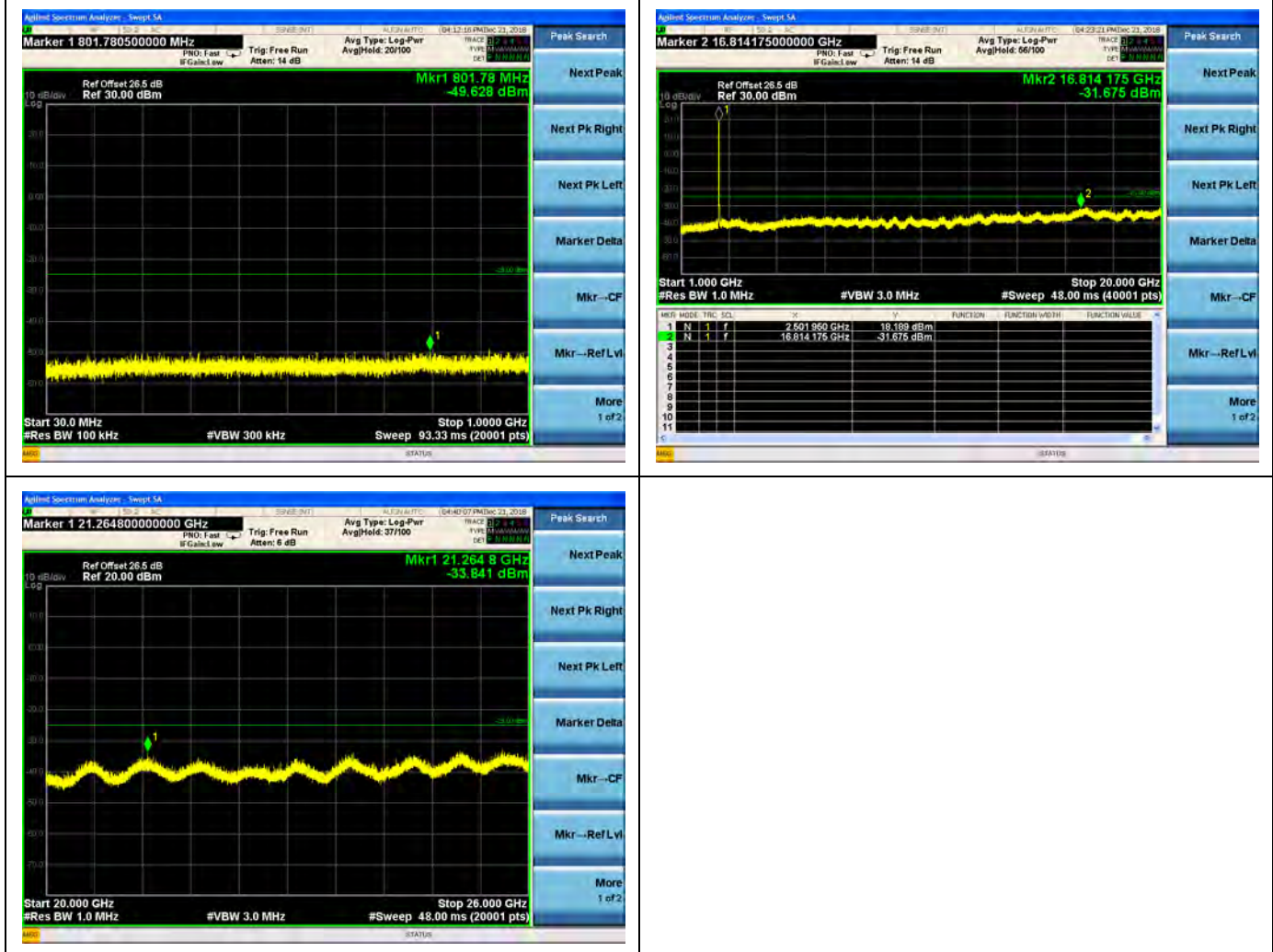
QPSK





LTE Band 7 10MHz BW Low Channel

16QAM





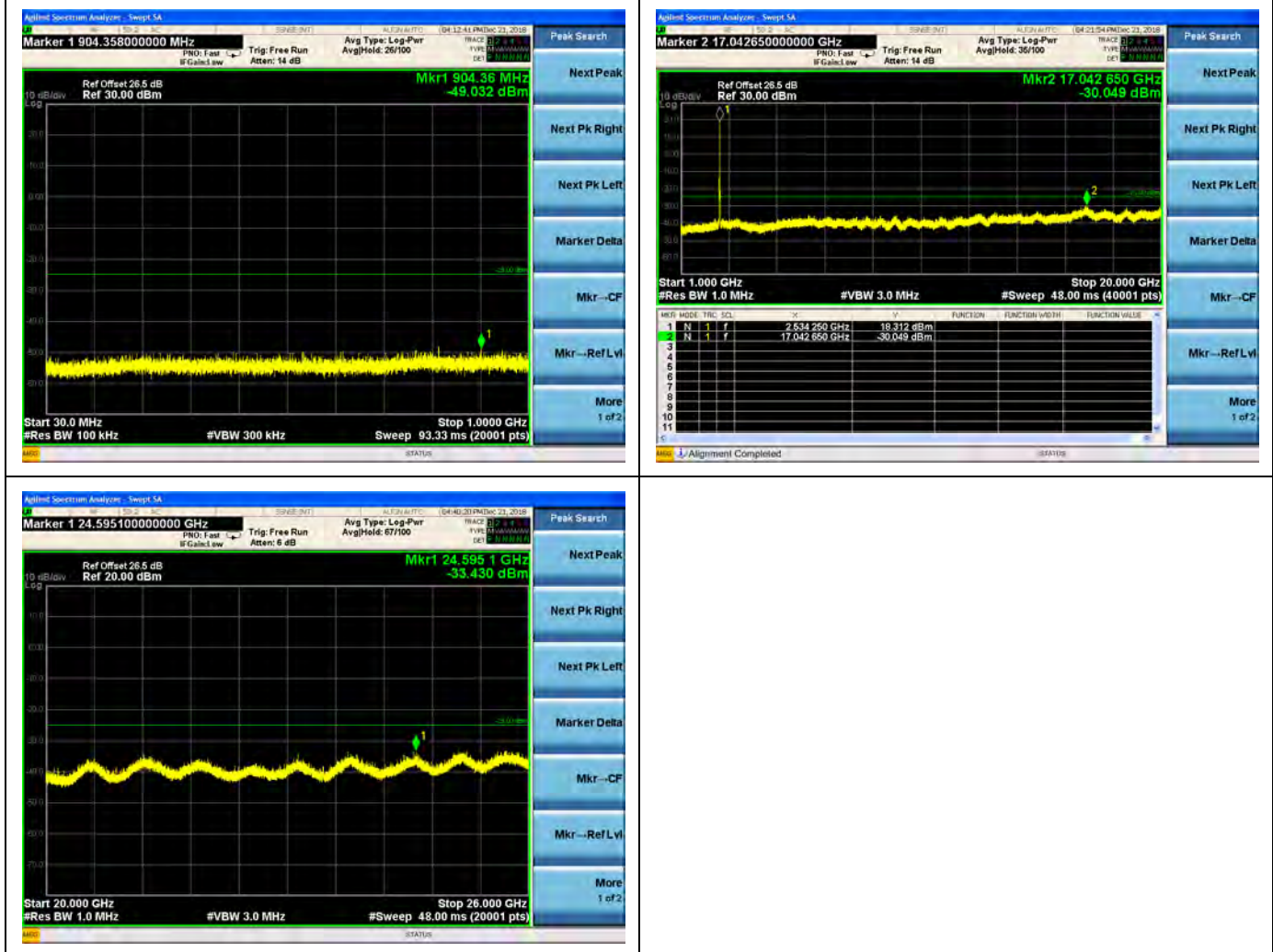
QPSK

REF	MODE	TRIG	SL	F	FUNCTION	FUNCTION VALUE	FUNCTION VALUE
1	N	1	f	2.634 260 GHz	-17.687 dBm		
2	N	1	f	18.612 526 GHz	-31.620 dBm		
3							
4							
5							
6							
7							
8							
9							
10							
11							



LTE Band 7 10MHz BW Mid Channel

16QAM





LTE Band 7 10MHz BW High Channel

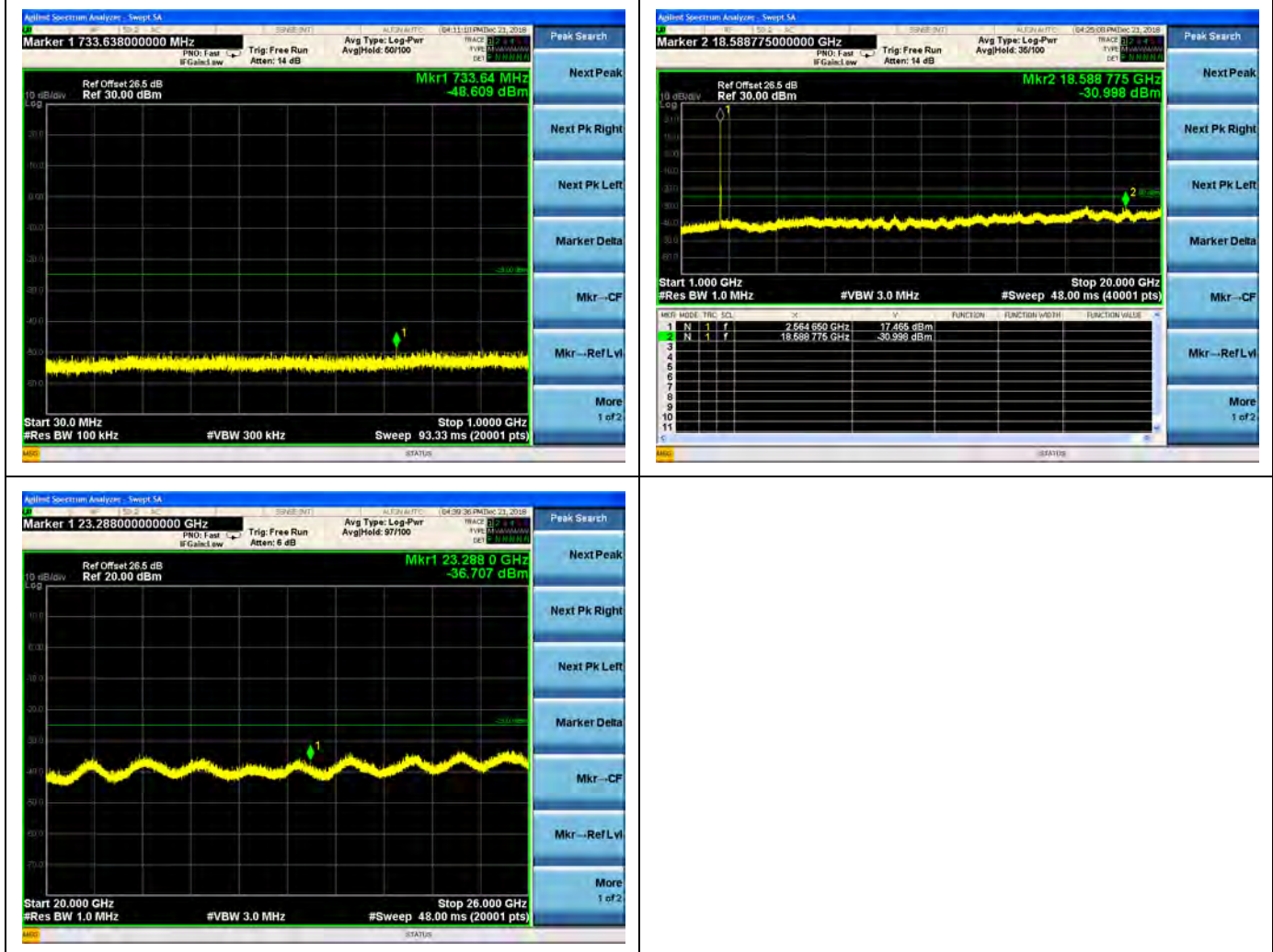
QPSK





LTE Band 7 10MHz BW High Channel

16QAM





LTE Band 7 15MHz BW Low Channel

QPSK





LTE Band 7 15MHz BW Low Channel

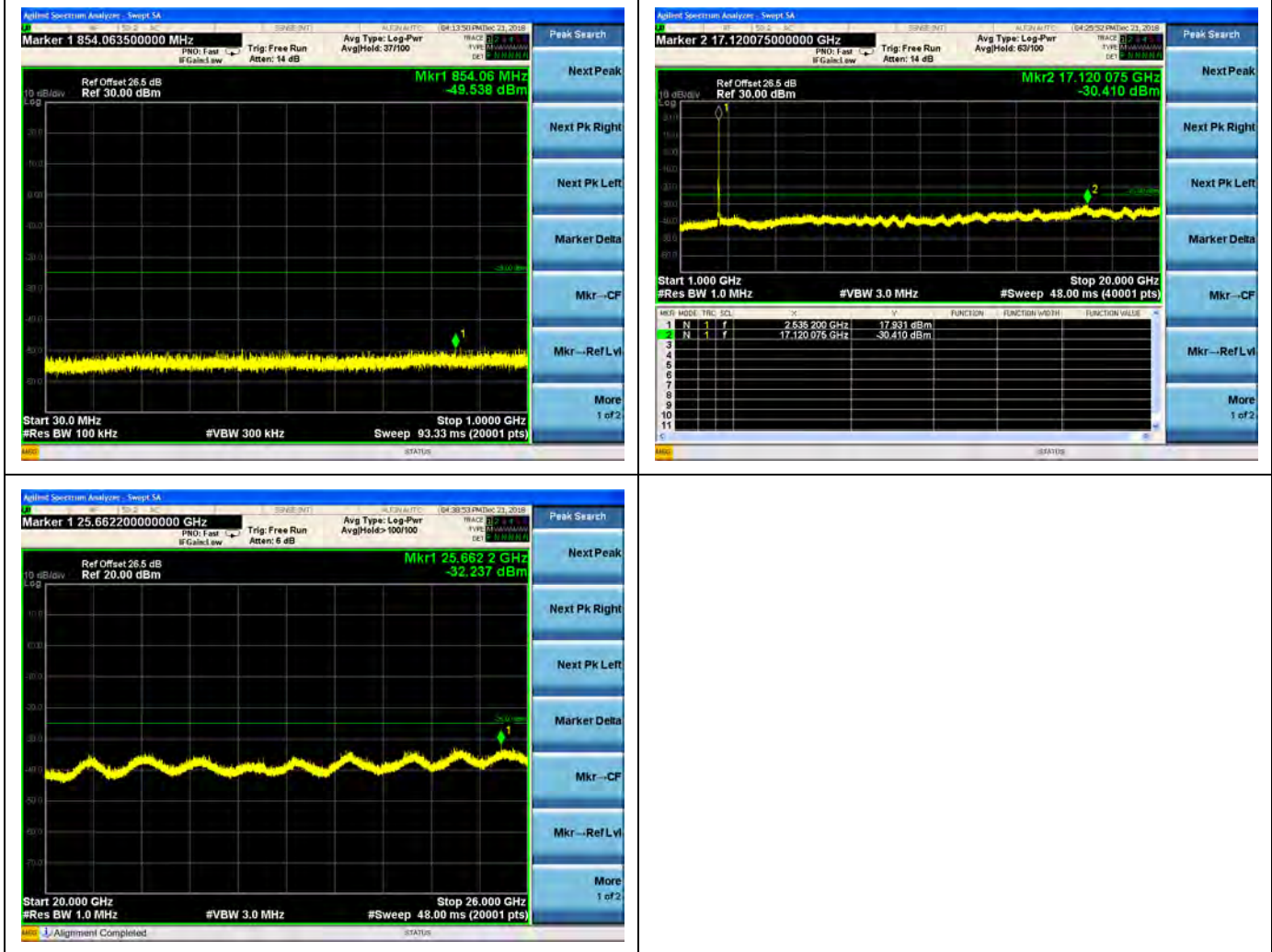
16QAM





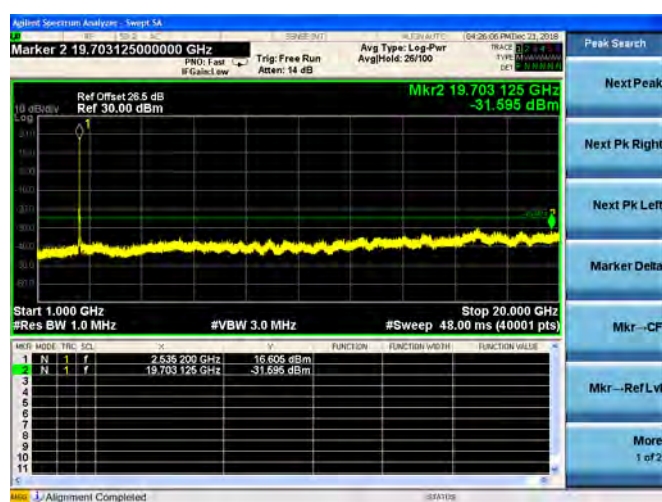
LTE Band 7 15MHz BW Mid Channel

QPSK





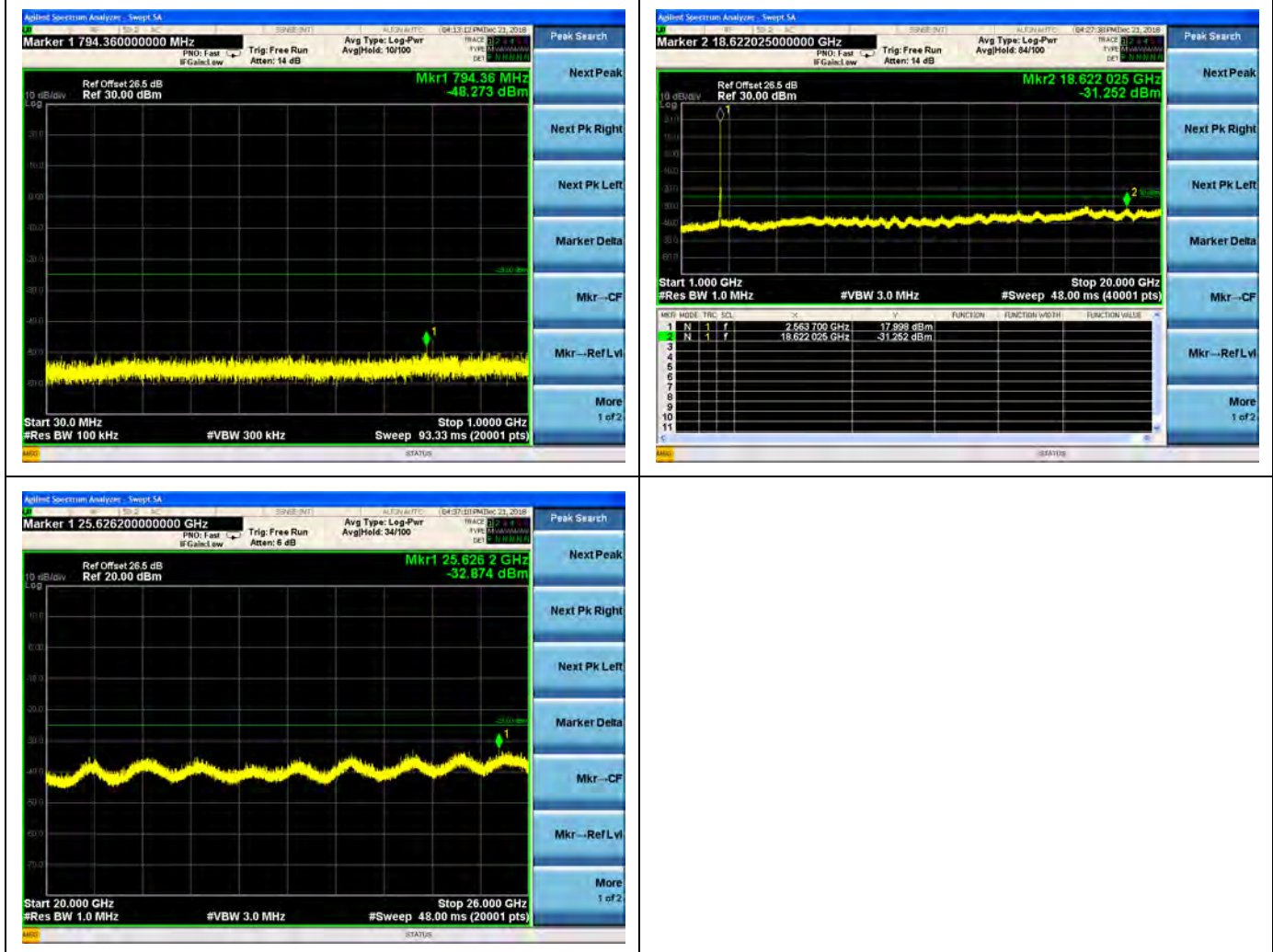
16QAM





LTE Band 7 15MHz BW High Channel

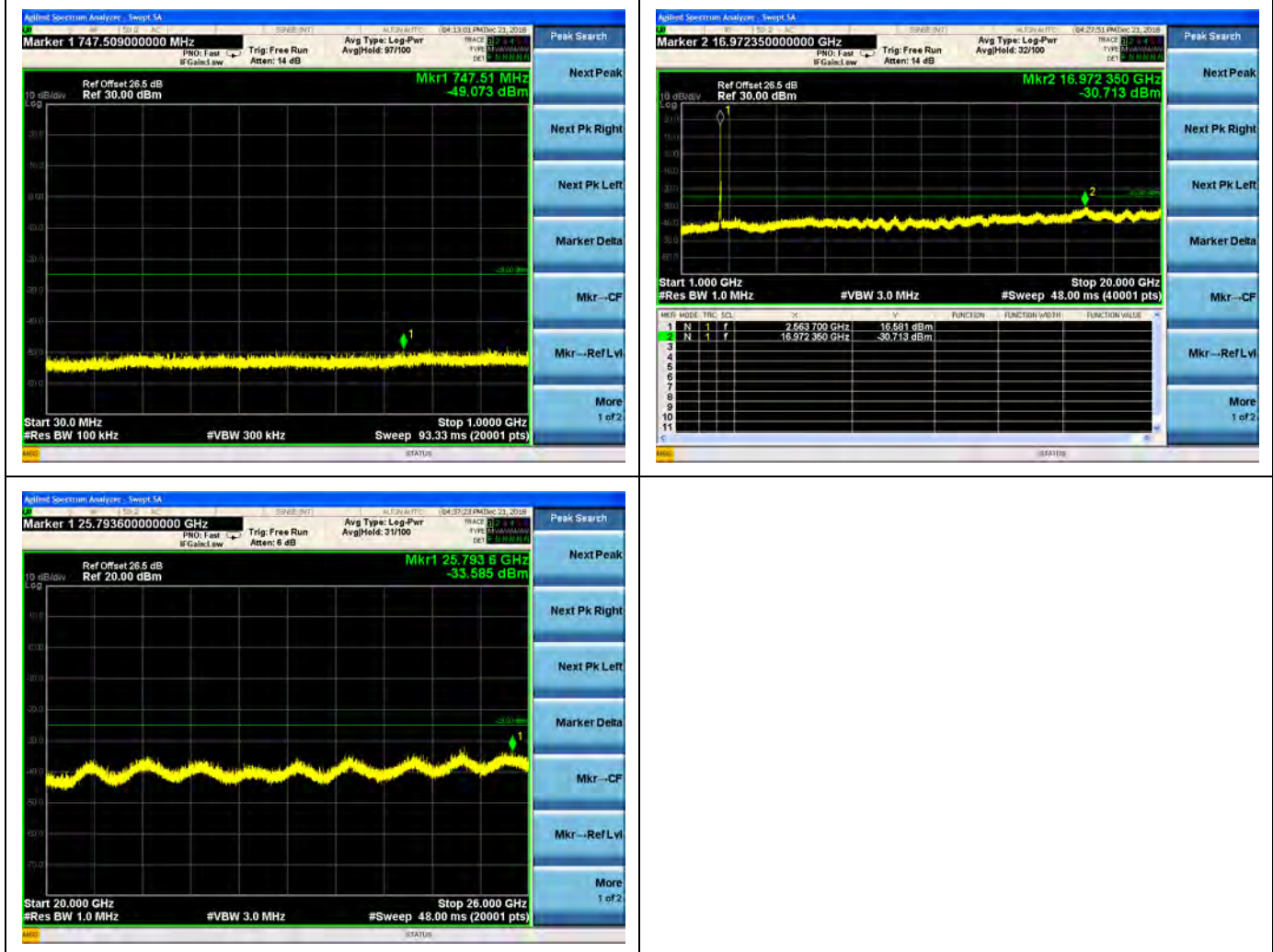
QPSK





LTE Band 7 15MHz BW High Channel

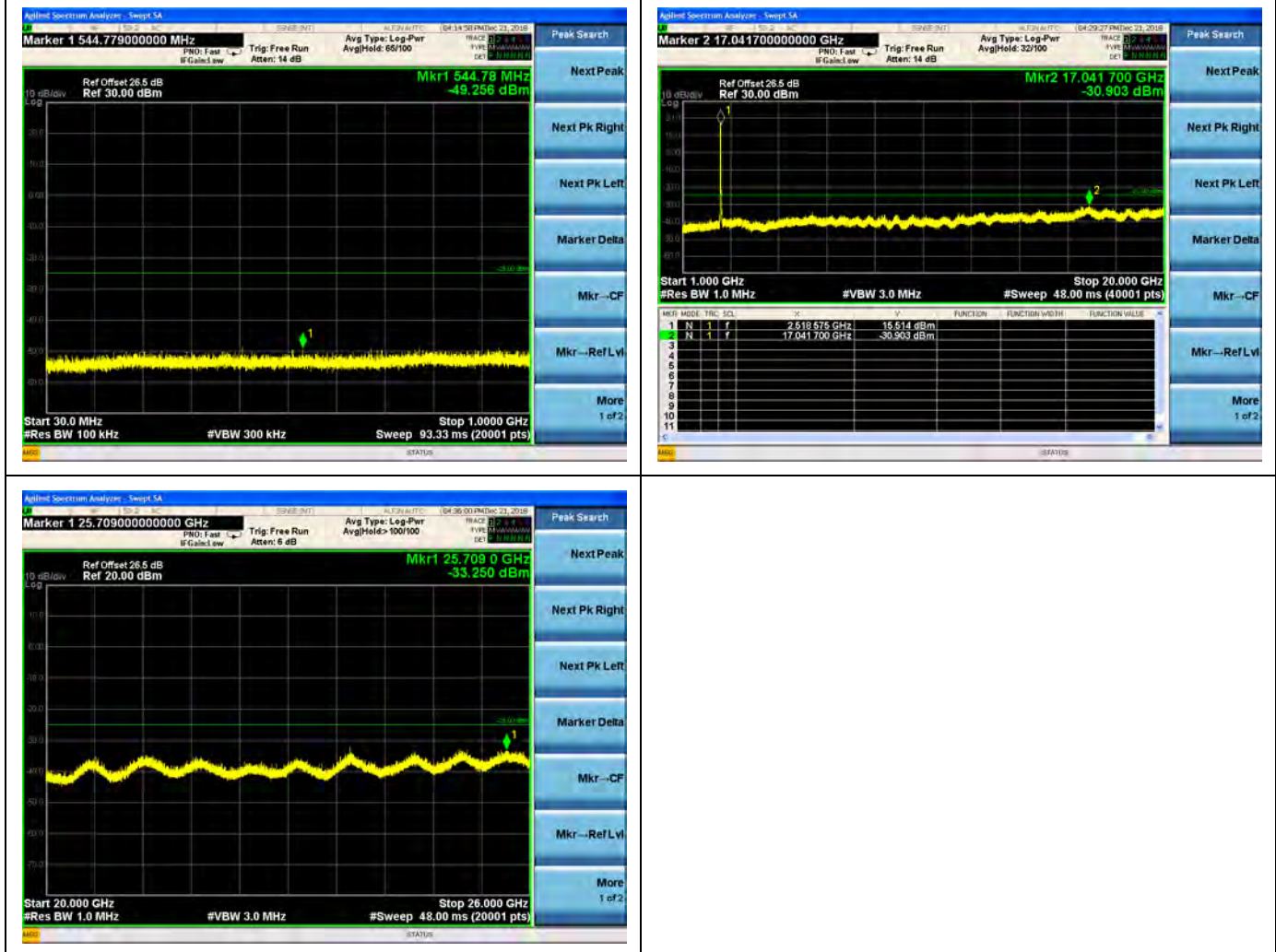
16QAM





LTE Band 7 20MHz BW Low Channel

QPSK





LTE Band 7 20MHz BW Low Channel

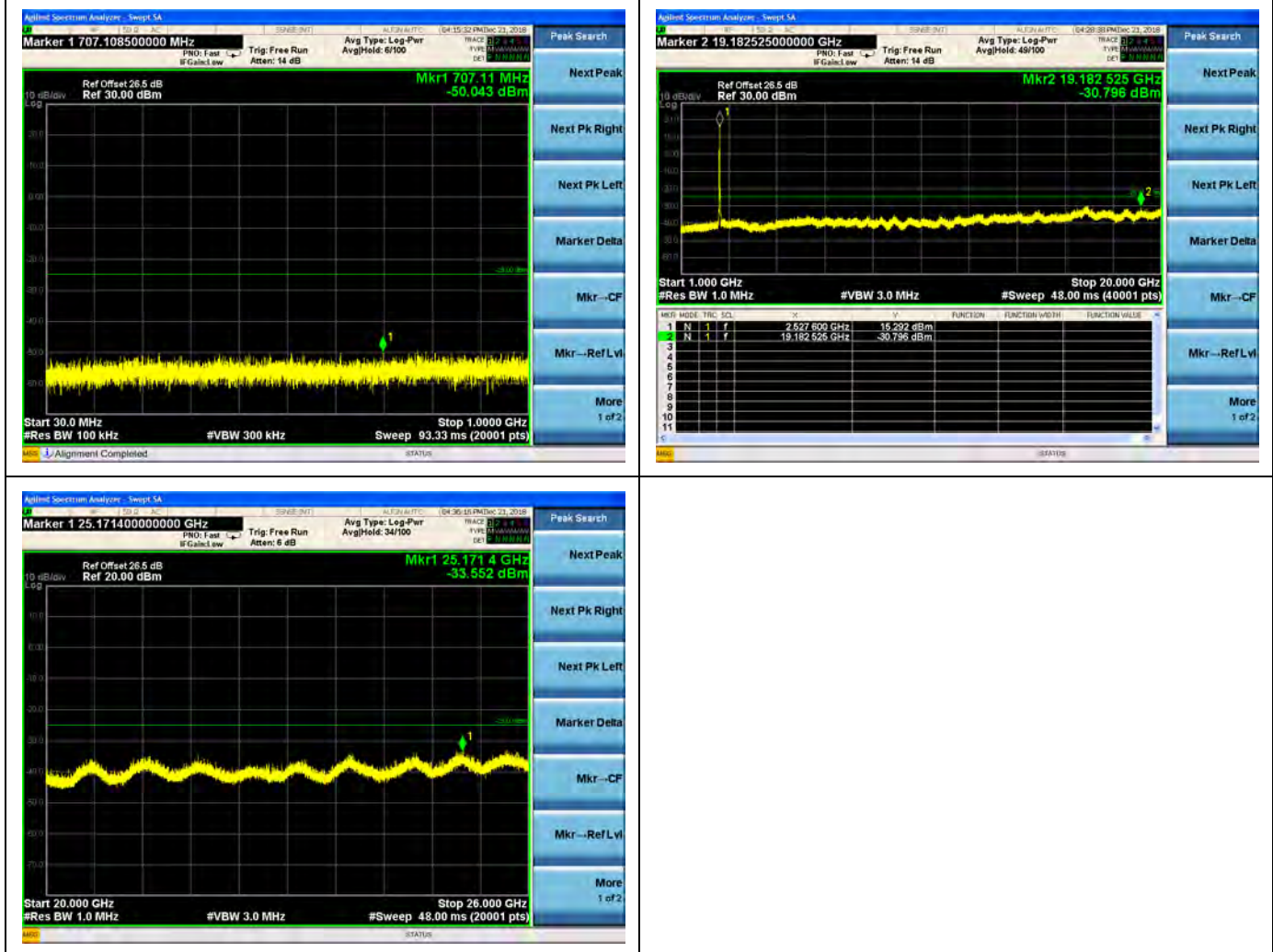
16QAM





LTE Band 7 20MHz BW Mid Channel

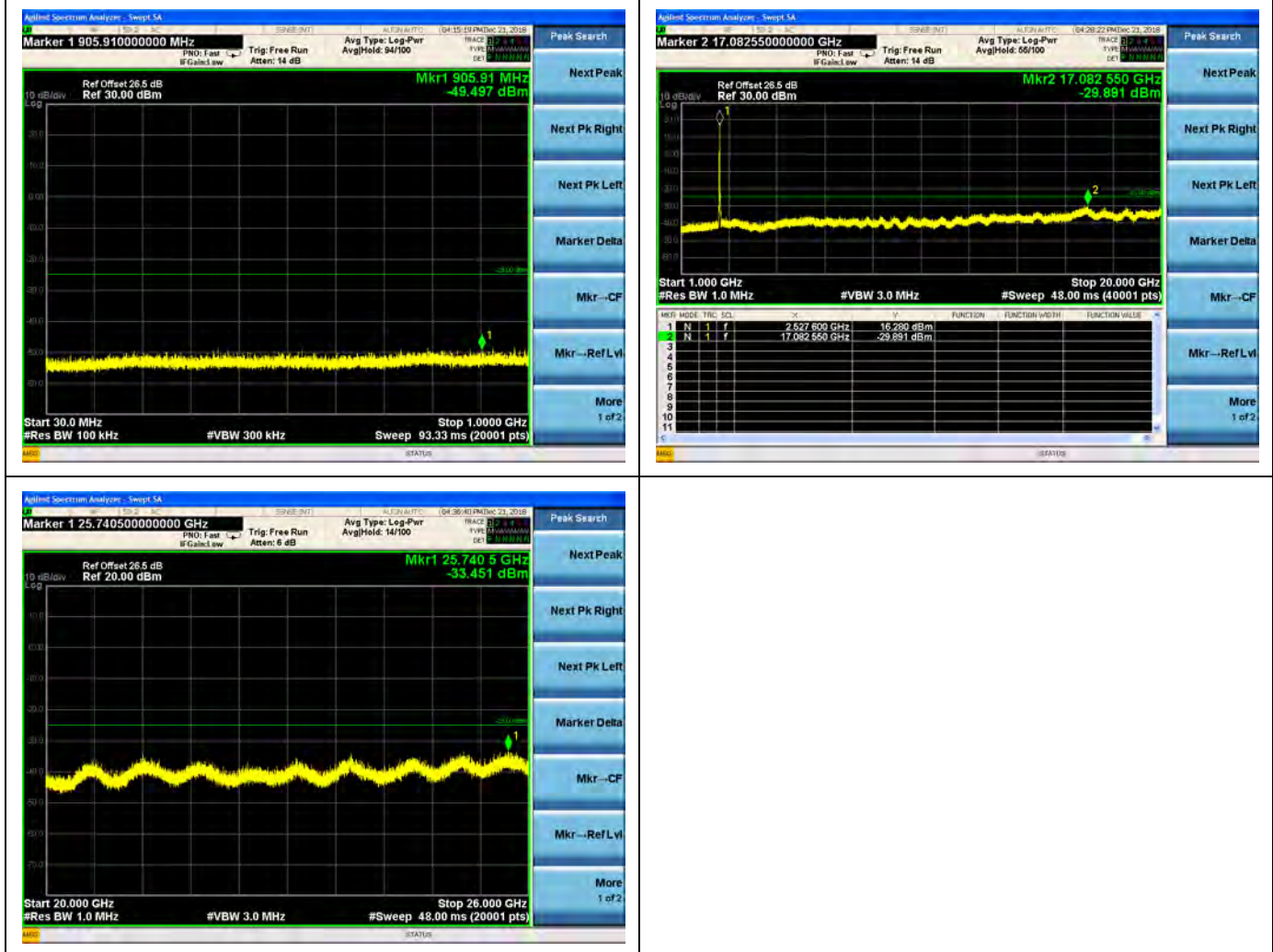
QPSK





LTE Band 7 20MHz BW Mid Channel

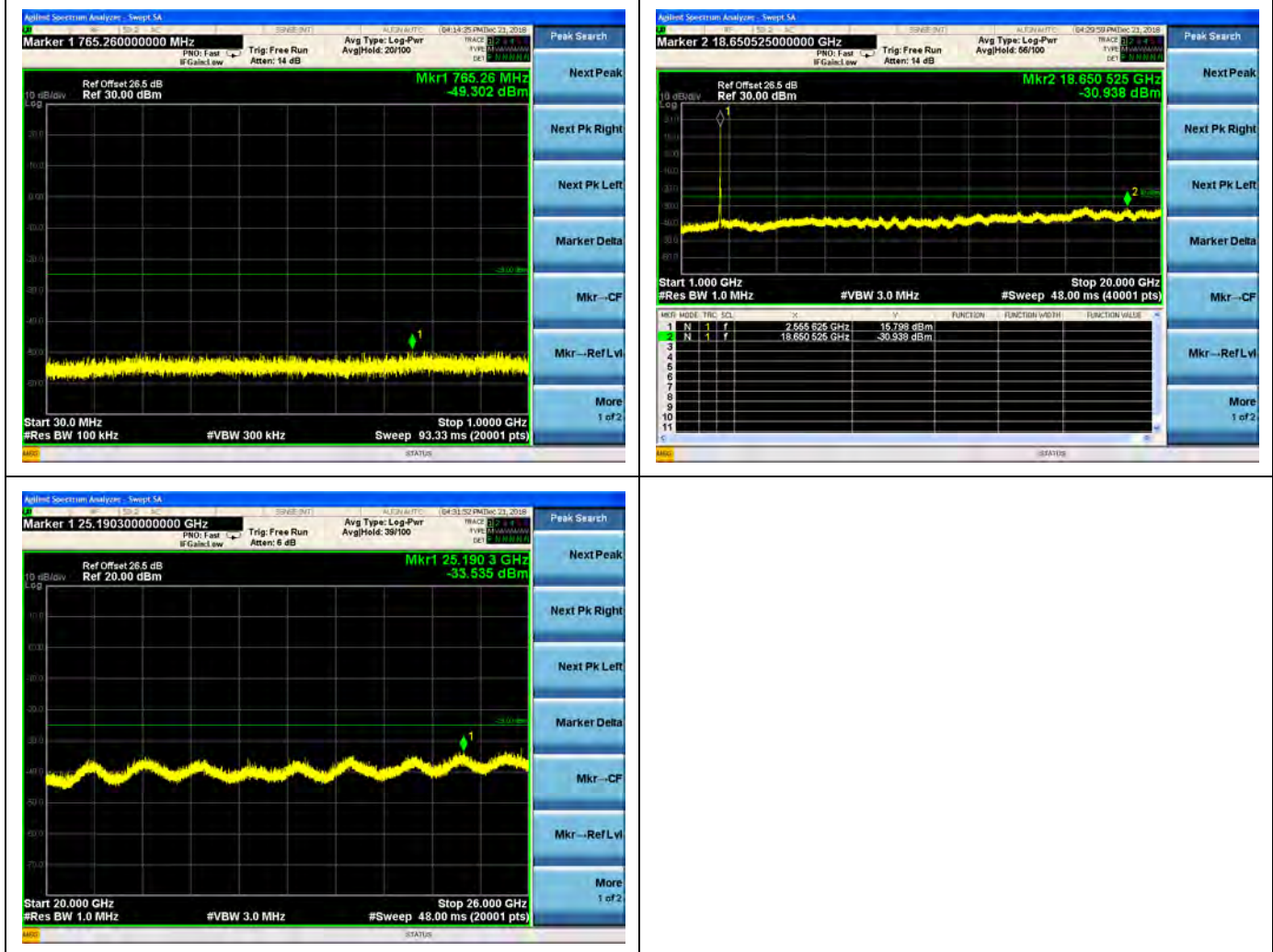
16QAM





LTE Band 7 20MHz BW High Channel

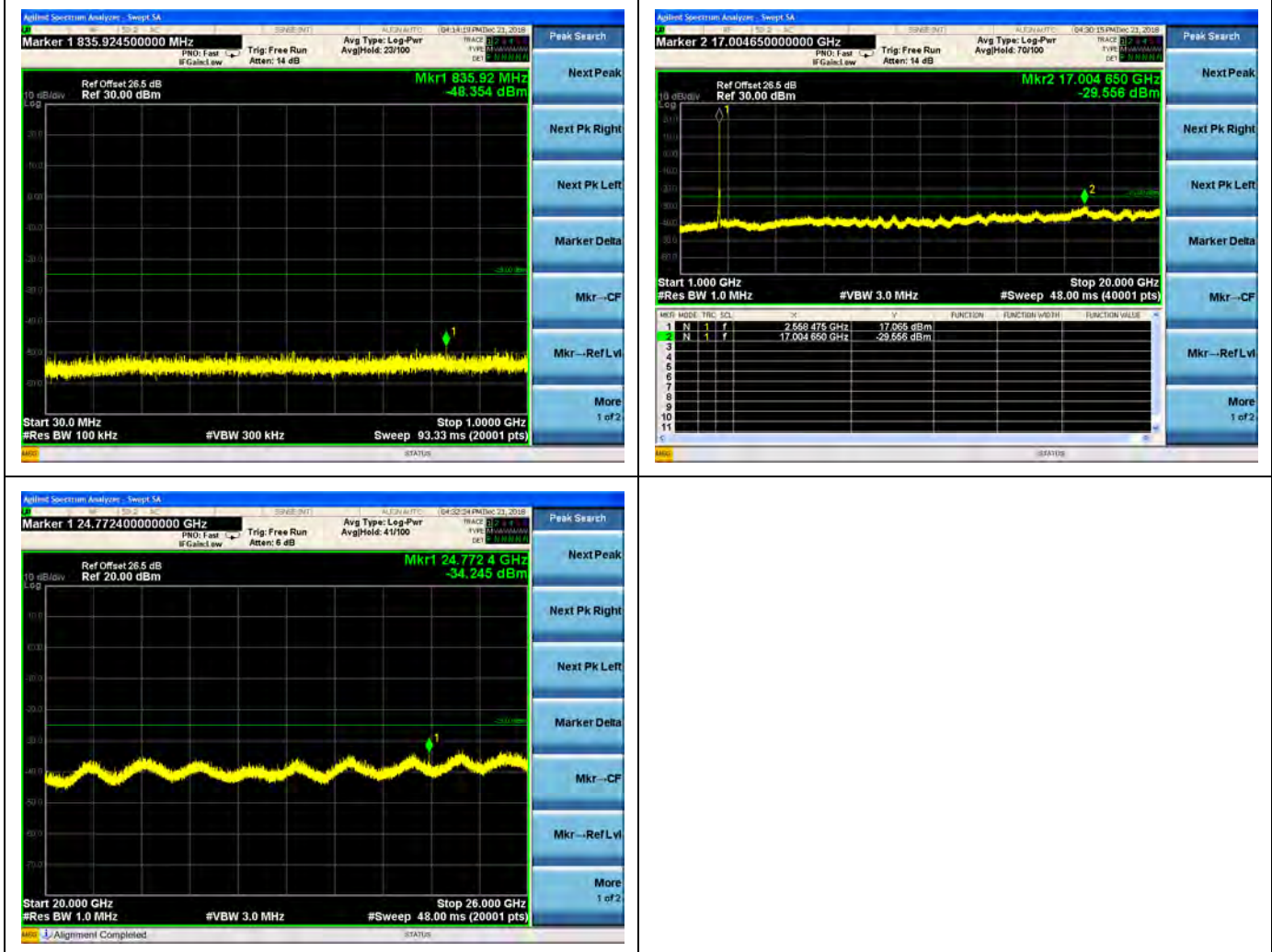
QPSK





LTE Band 7 20MHz BW High Channel

16QAM



2.6. Band Edge

2.6.1. Requirement

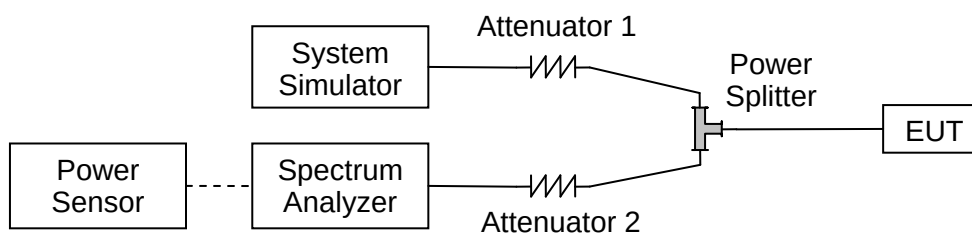
According to FCC section 22.917(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to FCC section 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.

According to FCC section 27.53(h), For operations in the 1710–1755MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB.

According to FCC section 27.53(m) (4), For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

2.6.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.



2.6.3. Test procedure

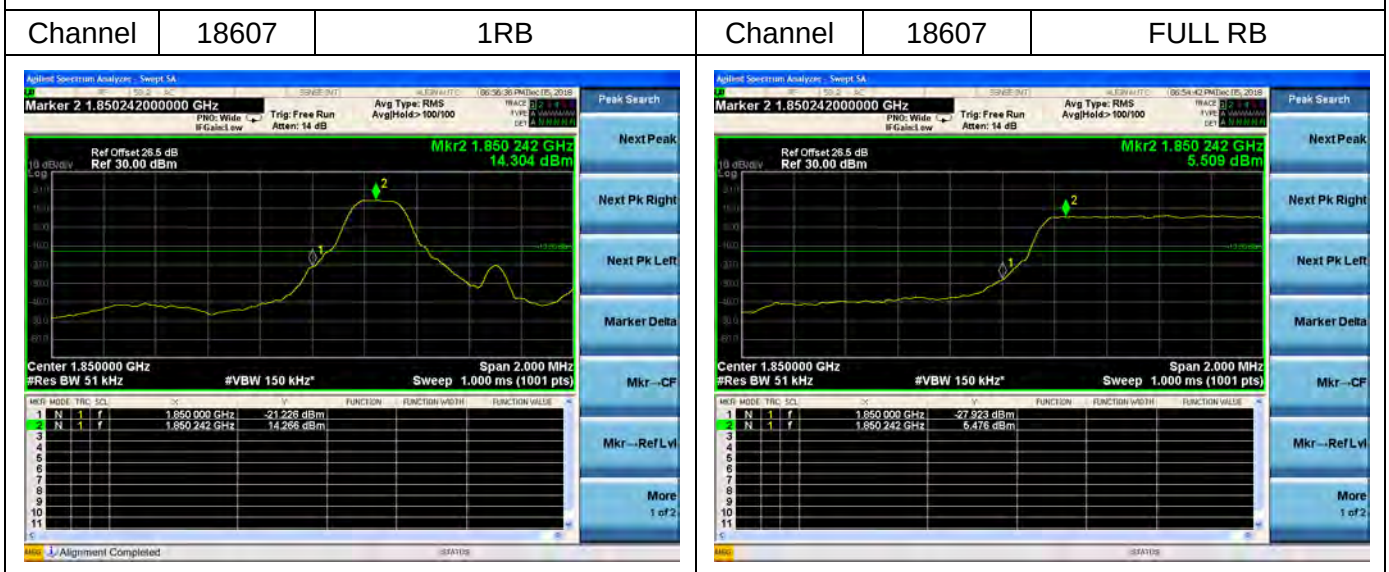
KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

2.6.4. Test Result

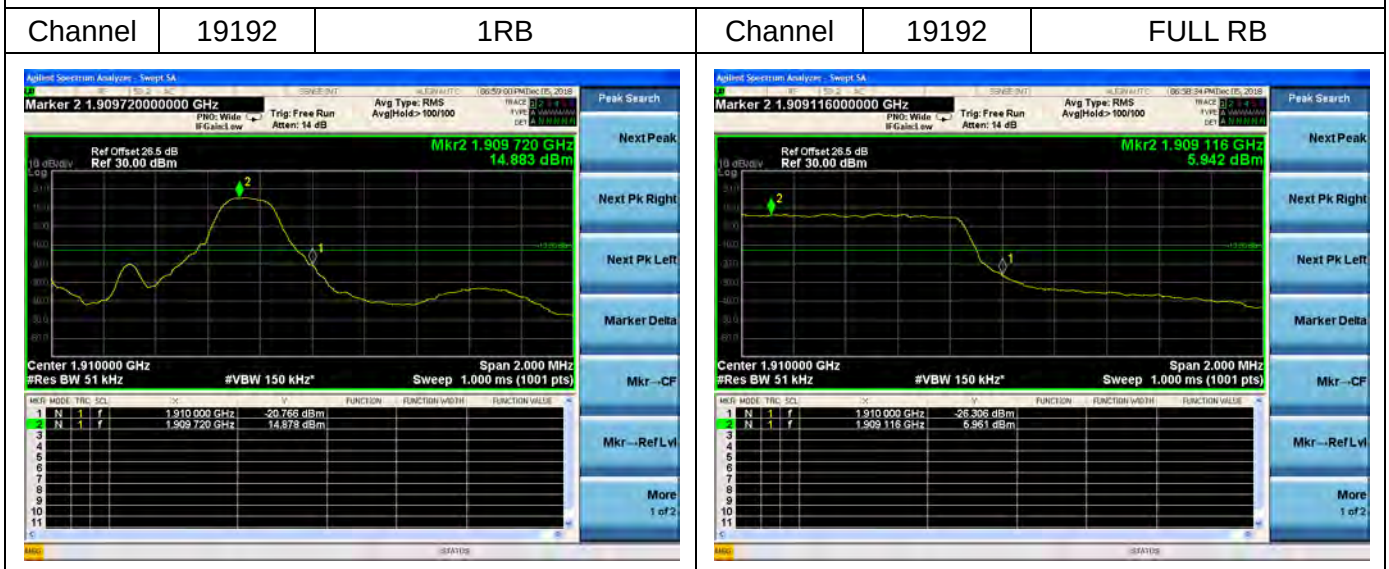
The center frequency of spectrum is the band edge frequency and span is 2MHz, Record the max trace into the test report.

LTE Band 2

Channel Bandwidth: 1.4MHz



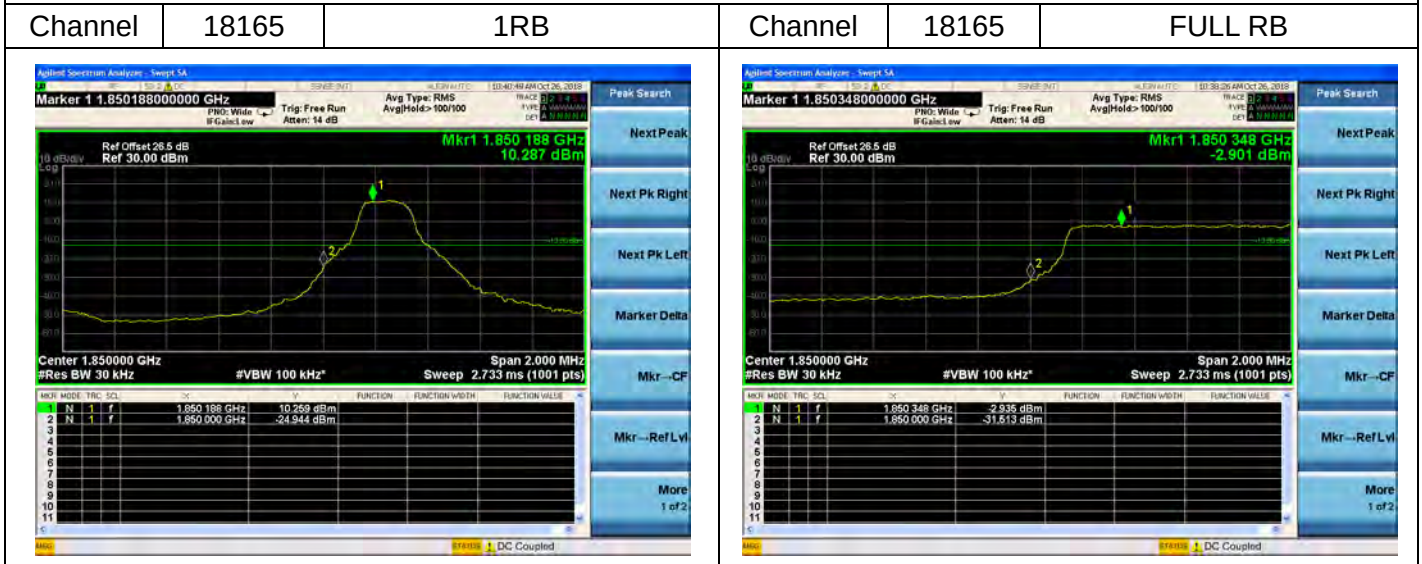
Channel Bandwidth: 1.4MHz



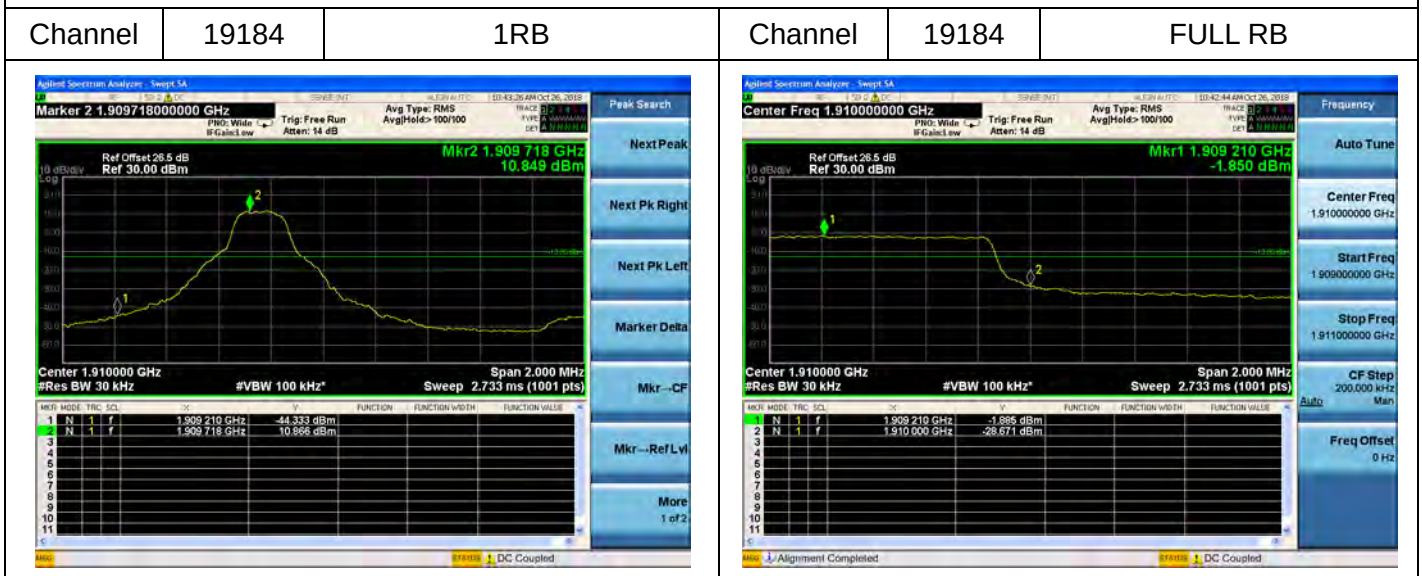


LTE Band 2

Channel Bandwidth: 3MHz



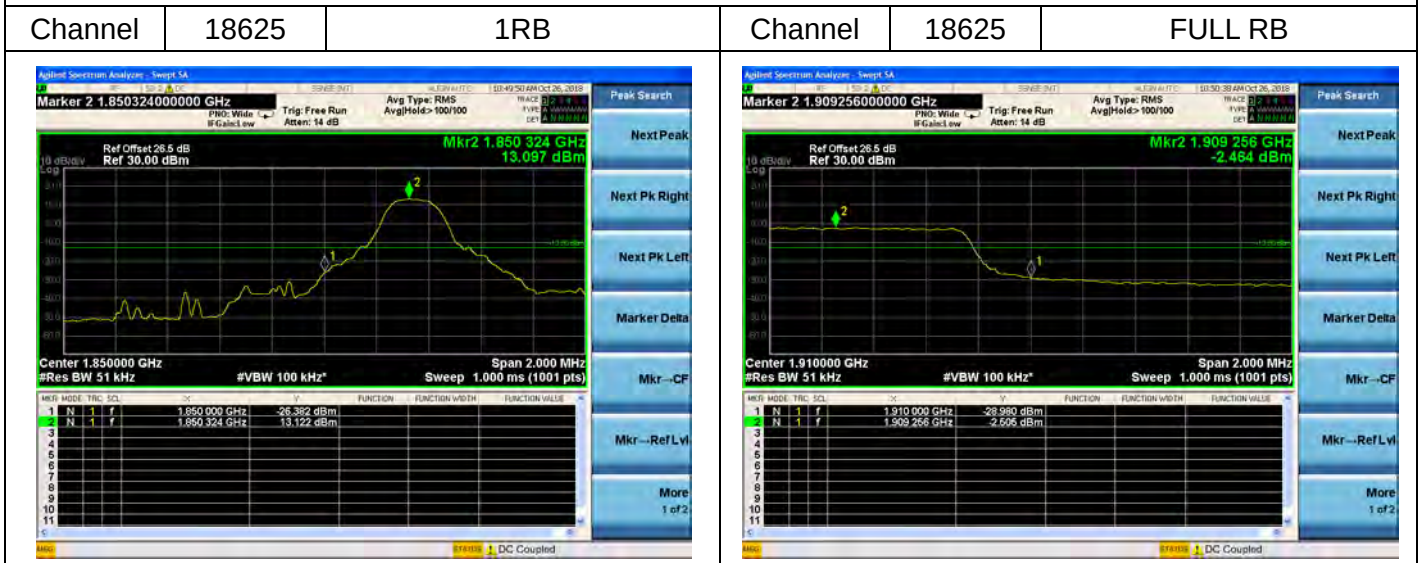
Channel Bandwidth: 3MHz



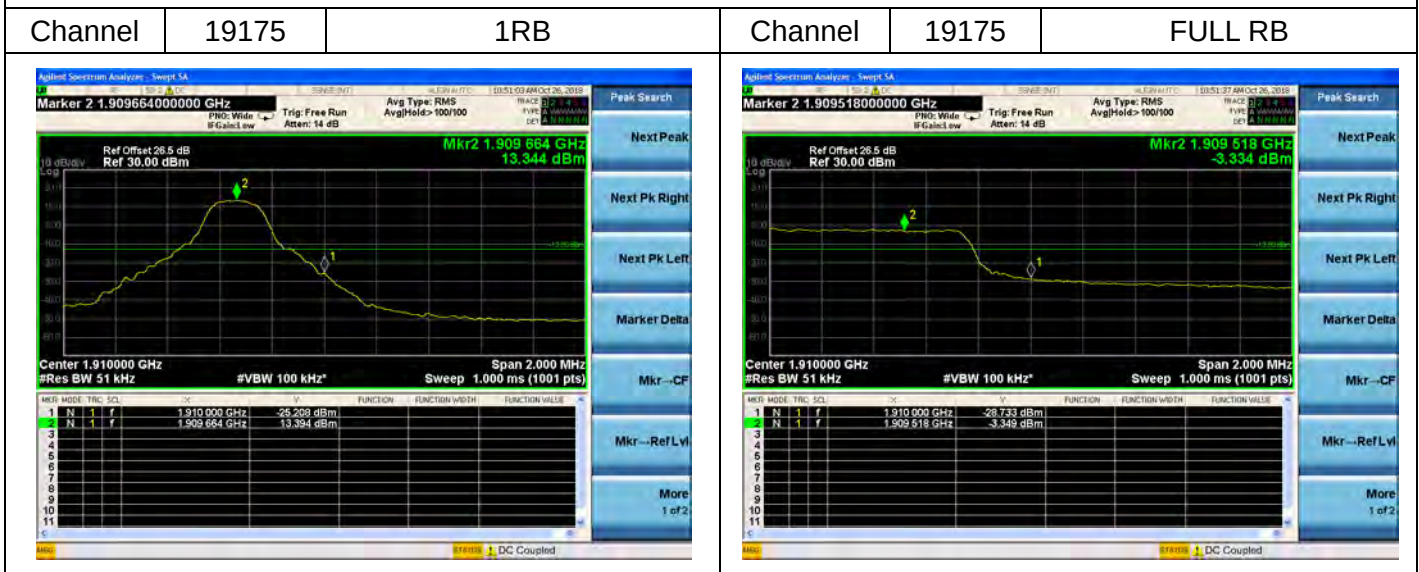


LTE Band 2

Channel Bandwidth: 5MHz



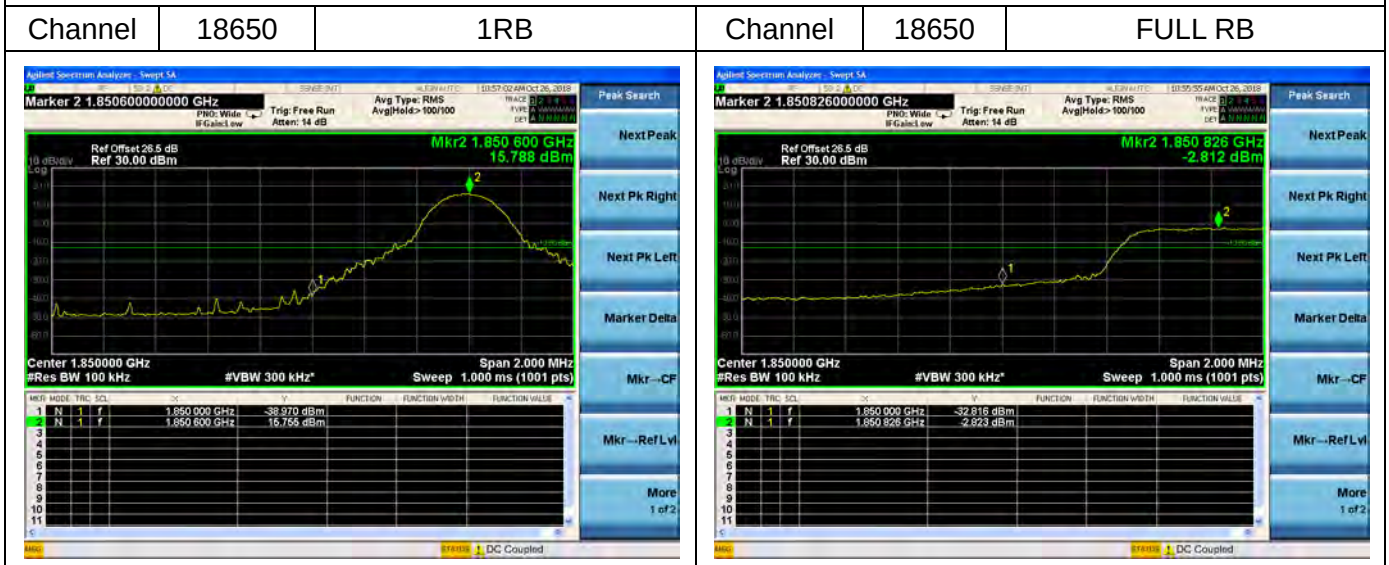
Channel Bandwidth: 5MHz



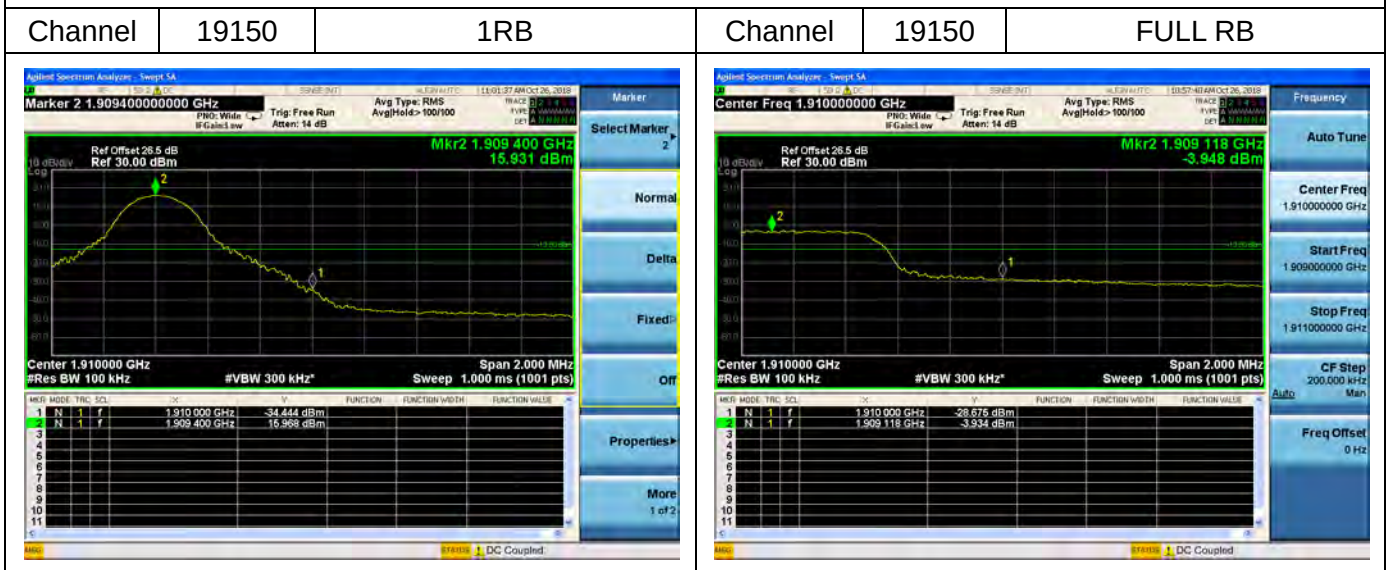


LTE Band 2

Channel Bandwidth: 10MHz



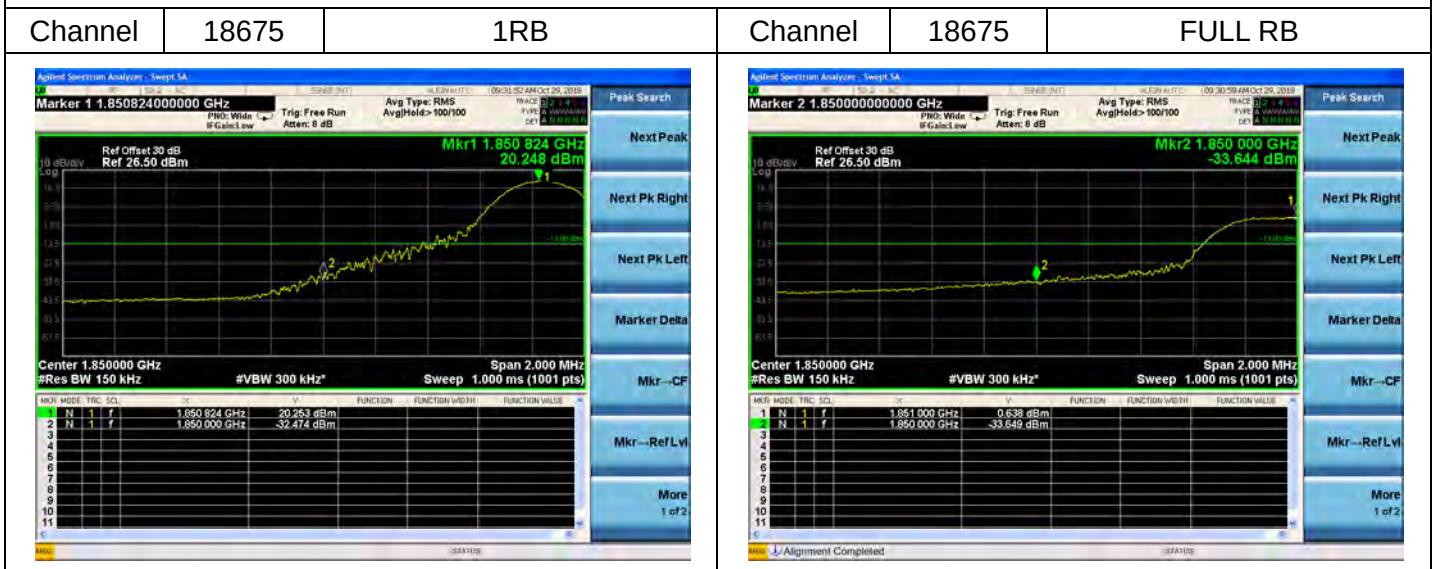
Channel Bandwidth: 10MHz



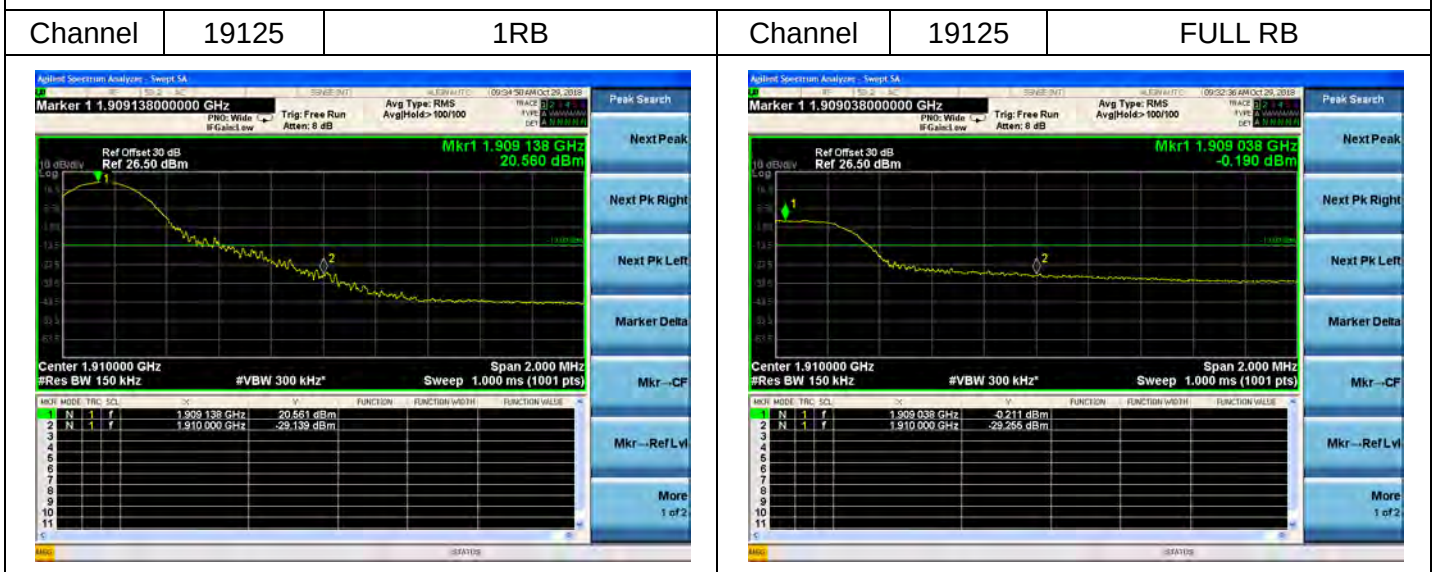


LTE Band 2

Channel Bandwidth: 15MHz



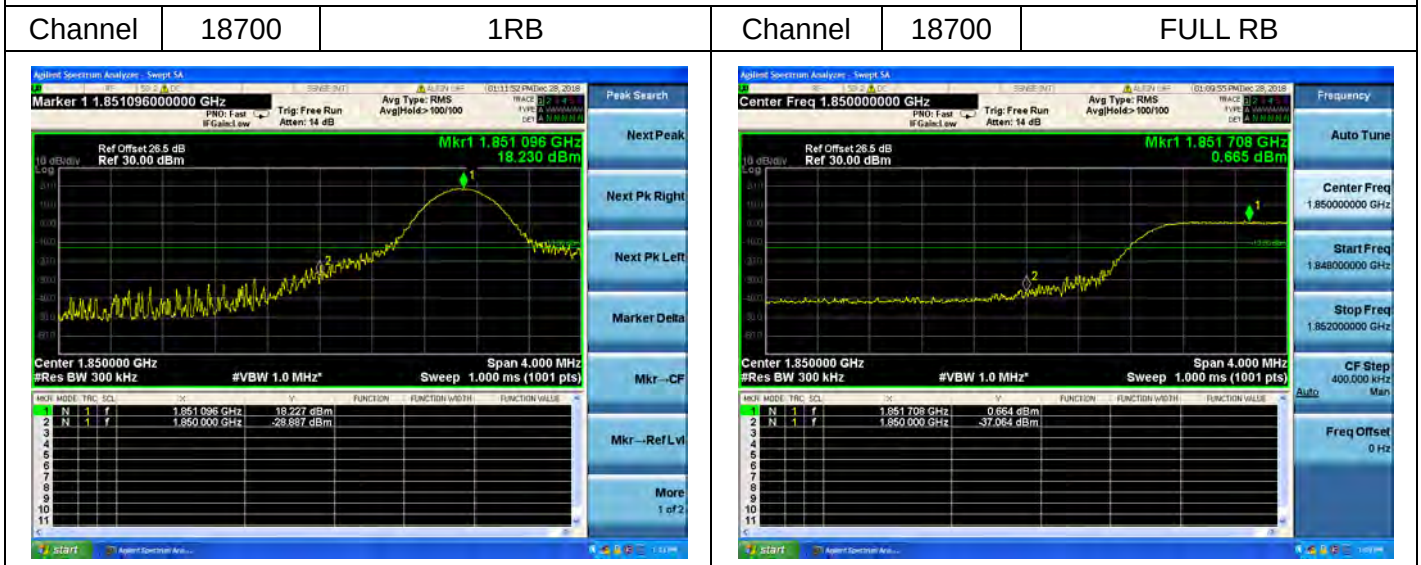
Channel Bandwidth: 15MHz



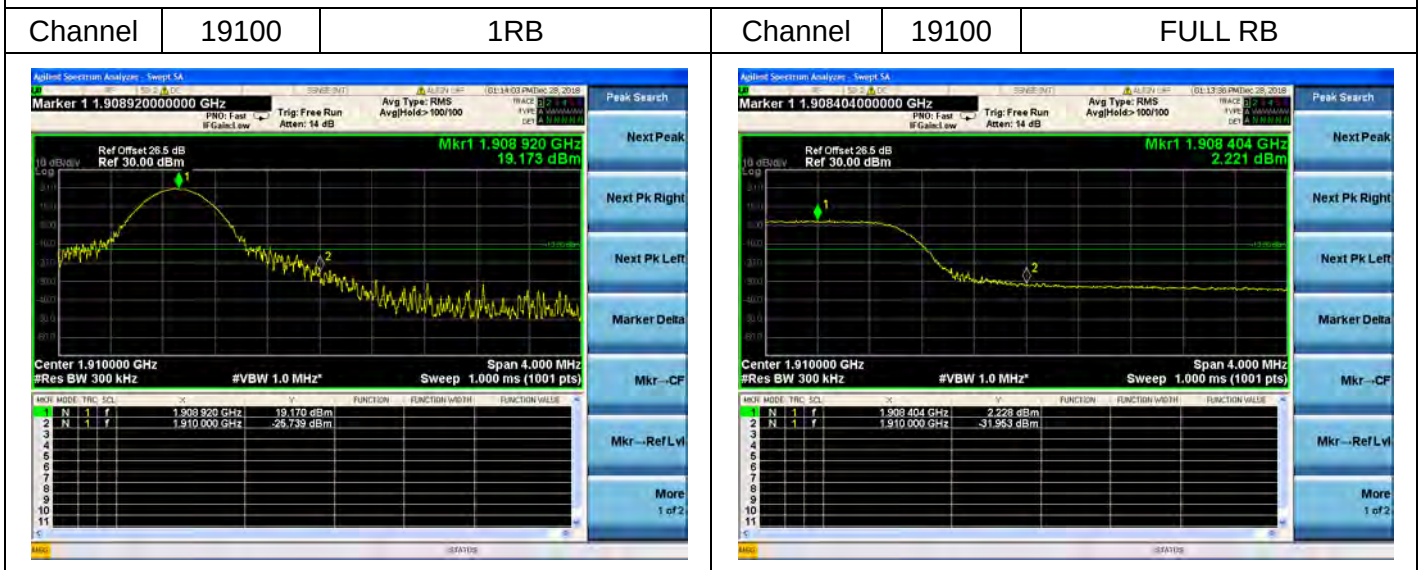


LTE Band 2

Channel Bandwidth: 20MHz



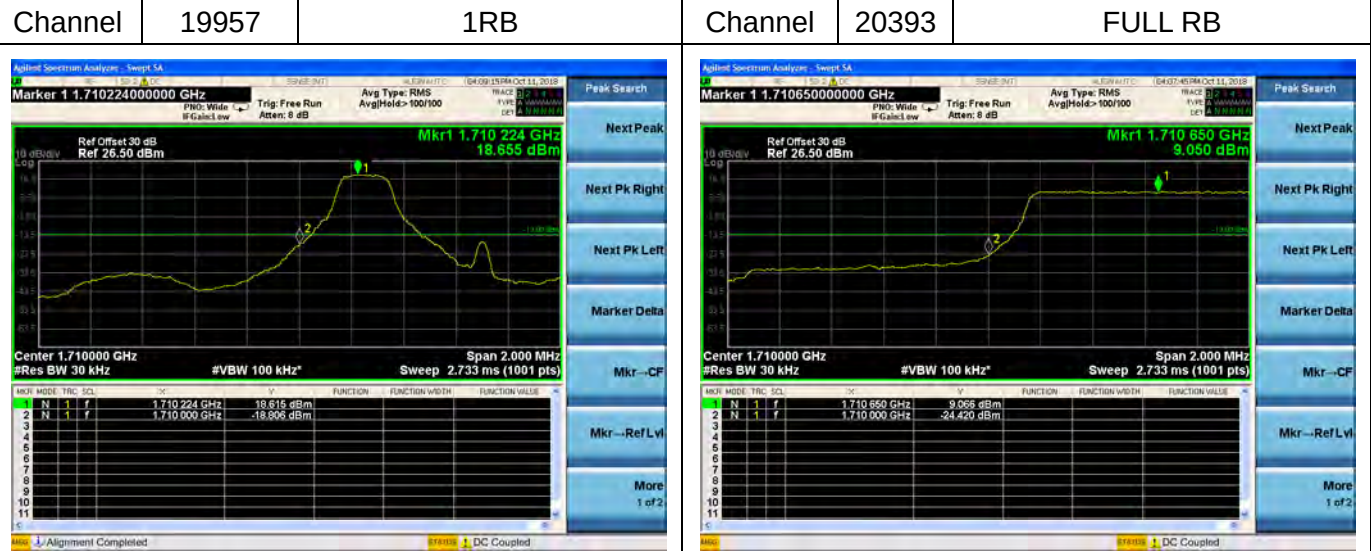
Channel Bandwidth: 20MHz



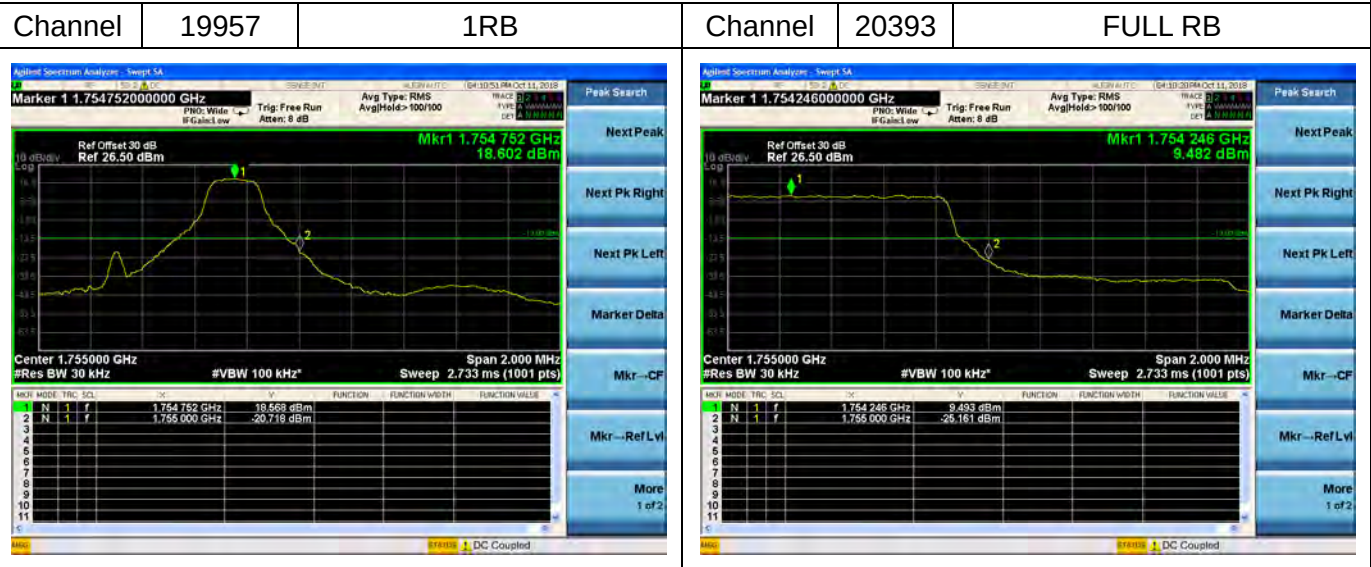


LTE Band 4

Channel Bandwidth: 1.4MHz



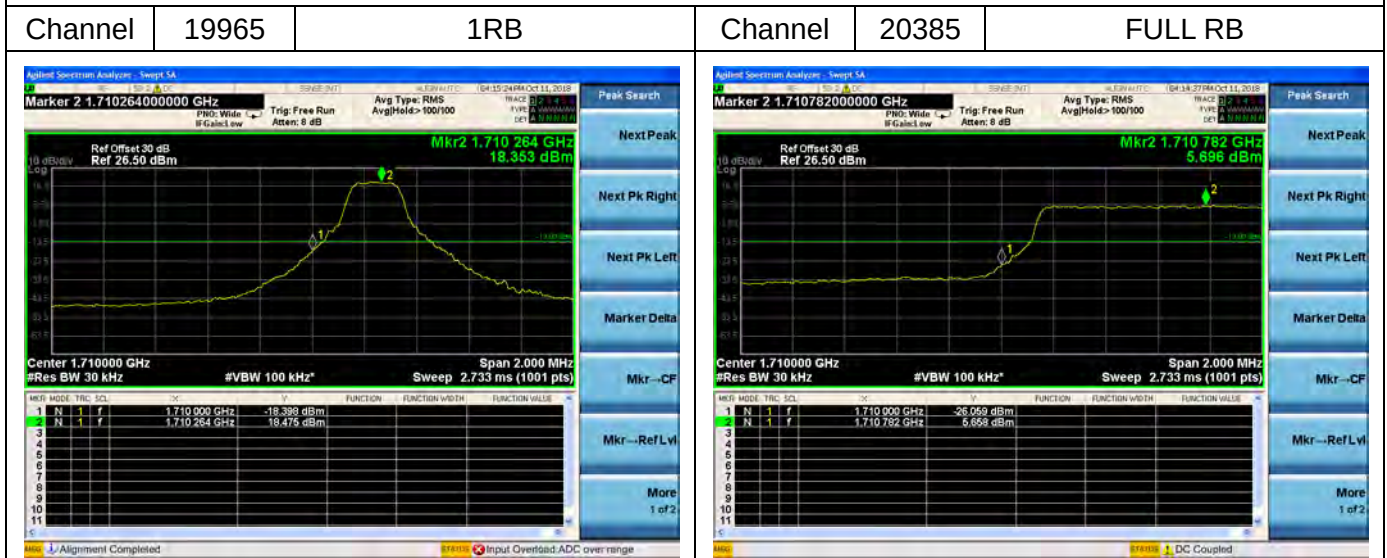
Channel Bandwidth: 1.4MHz



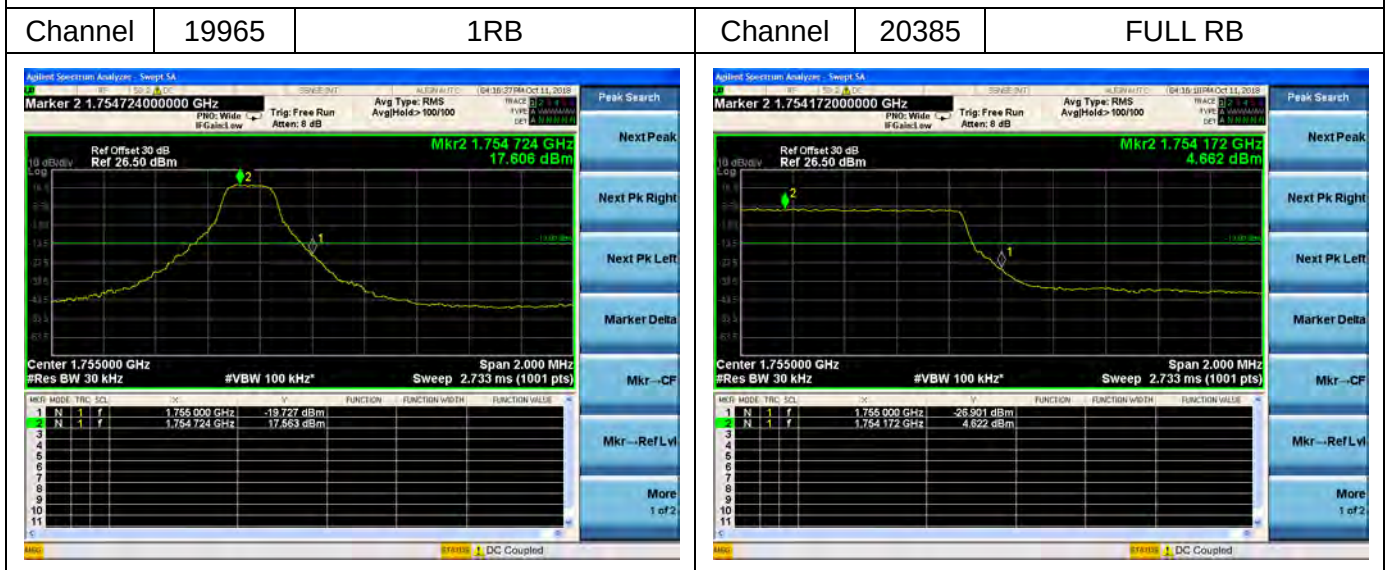


LTE Band 4

Channel Bandwidth: 3MHz



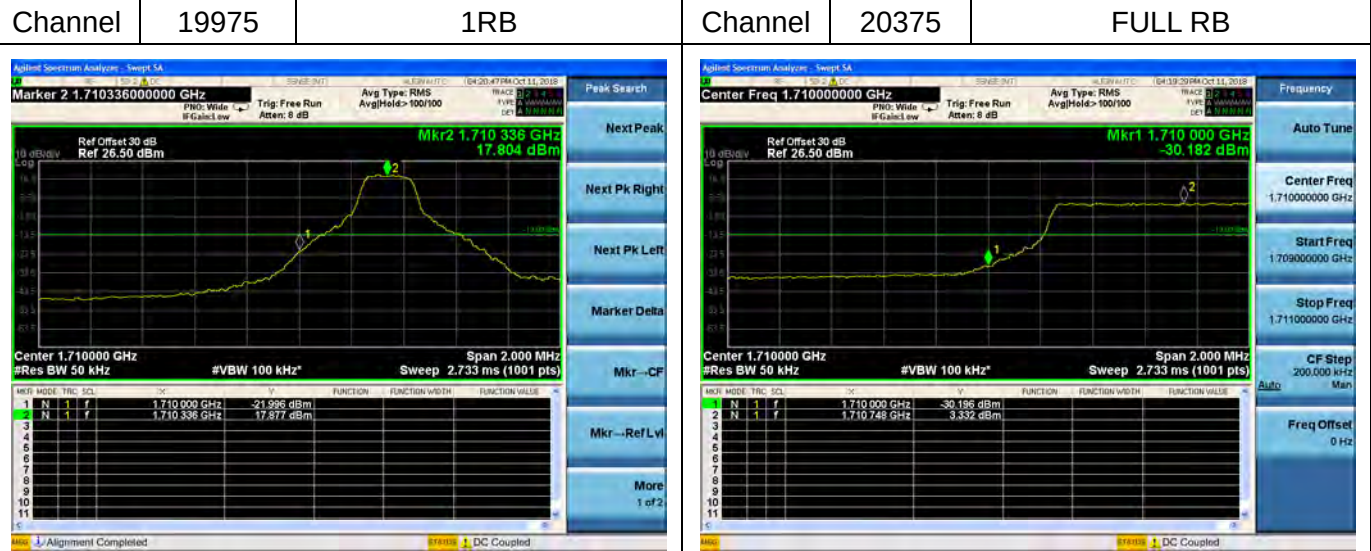
Channel Bandwidth: 3MHz



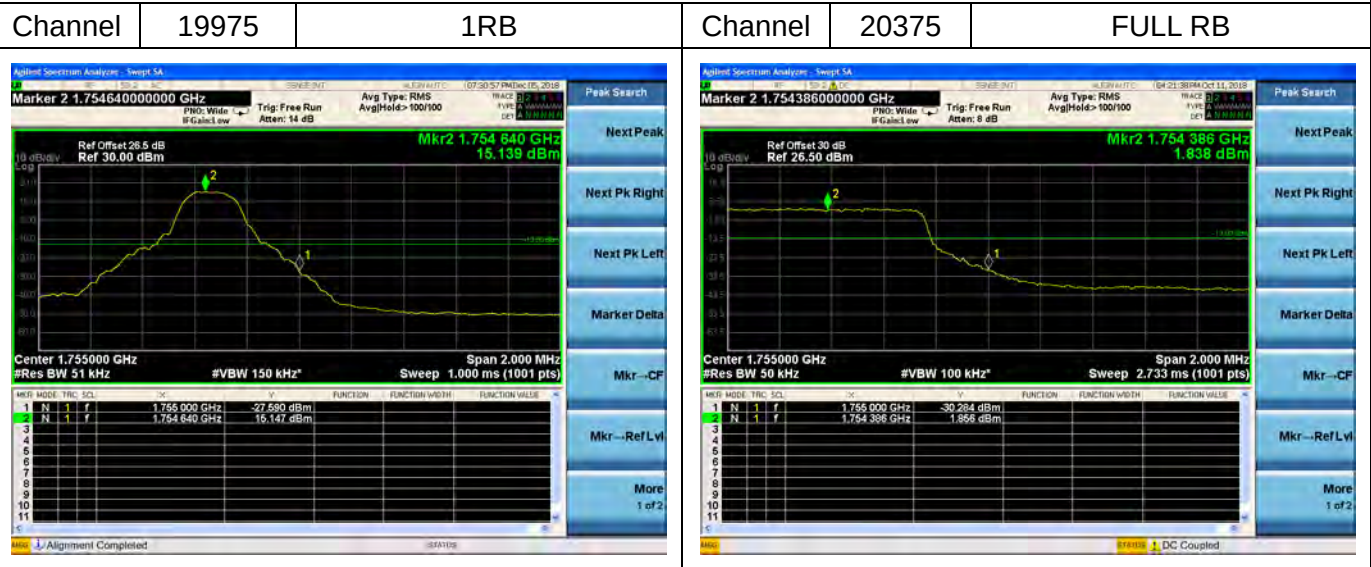


LTE Band 4

Channel Bandwidth: 5MHz



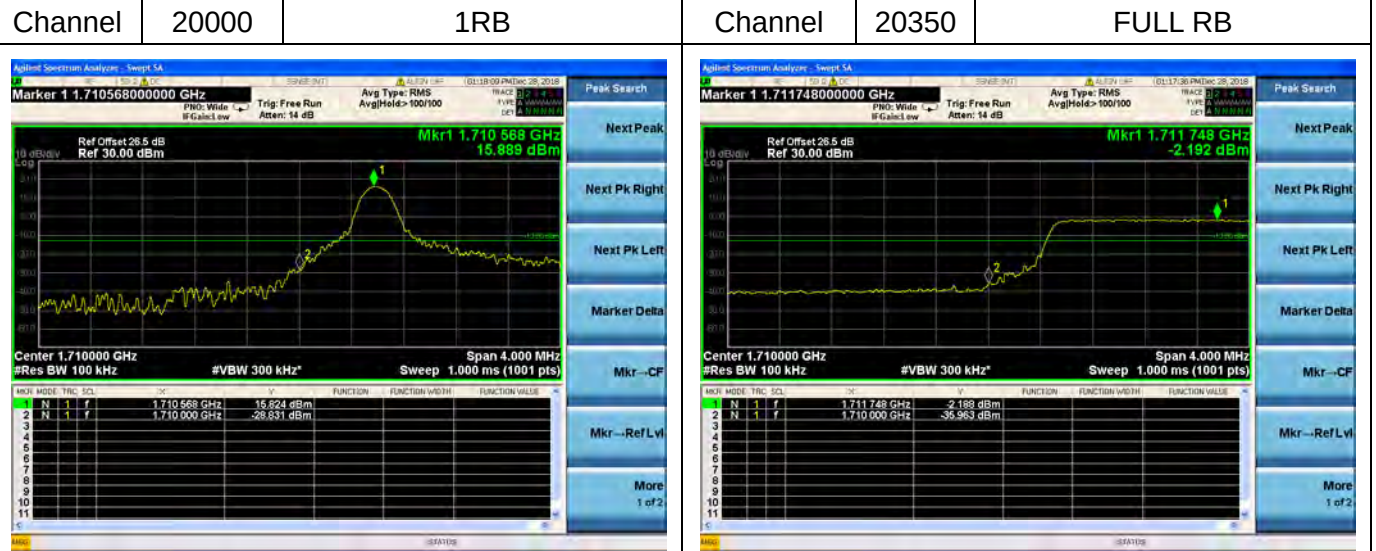
Channel Bandwidth: 5MHz



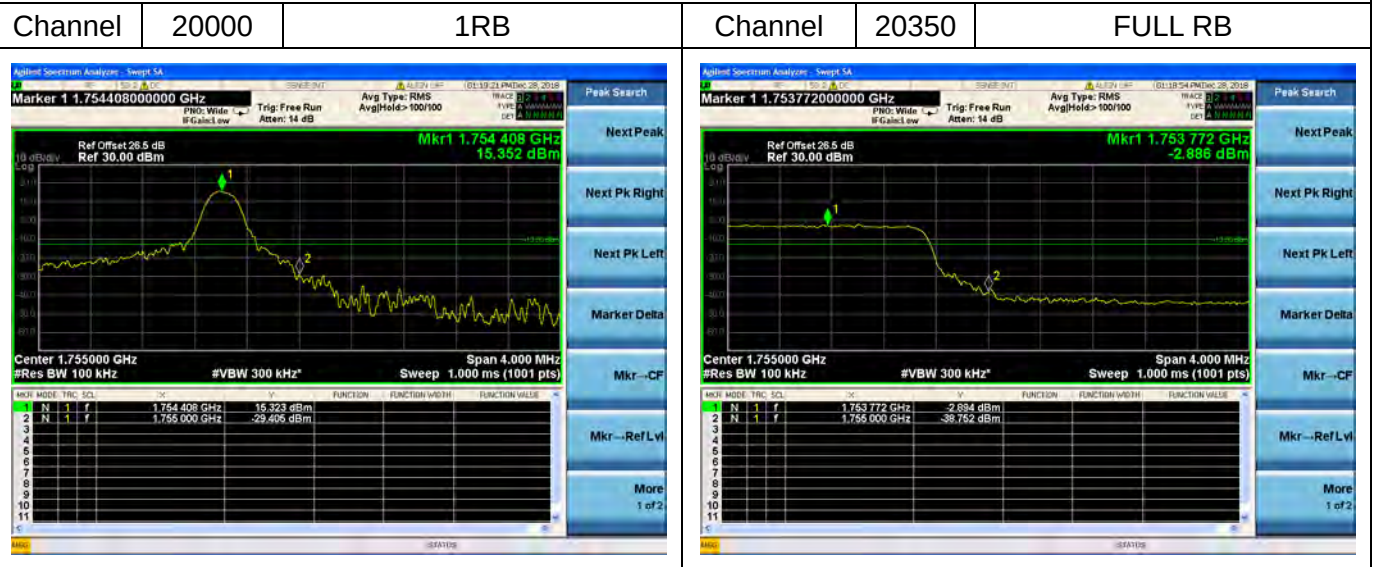


LTE Band 4

Channel Bandwidth: 10MHz



Channel Bandwidth: 10MHz





Channel Bandwidth: 15MHz

Channel 20025

1RB

Channel 20325

FULL RB

Channel Bandwidth: 15MHz

Channel | 20025 | 1RB

Agilent Spectrum Analyzer - Sweep SA

Video BW 470 kHz

Ref Offset 26.5 dB
Ref 30.00 dBm

Mkr1 1.754152 GHz
15.273 dBm

Center 1.755000 GHz
#Res BW 150 kHz
Sweep 1.000 ms (1001 pts)

PK#	MODE	FREQ, SC	AMPL, DBM	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1.754152 GHz	15.273 dBm			
2	N	1.755000 GHz	-27.998 dBm			

Full RB

Agilent Spectrum Analyzer - Sweep SA

Marker 1 1.753488000000 GHz

Ref Offset 26.5 dB
Ref 30.00 dBm

Mkr1 1.753488 GHz
-2.992 dBm

Center 1.755000 GHz
#Res BW 150 kHz
Sweep 1.000 ms (1001 pts)

PK#	MODE	FREQ, SC	AMPL, DBM	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1.753488 GHz	-2.992 dBm			
2	N	1.755000 GHz	-38.338 dBm			



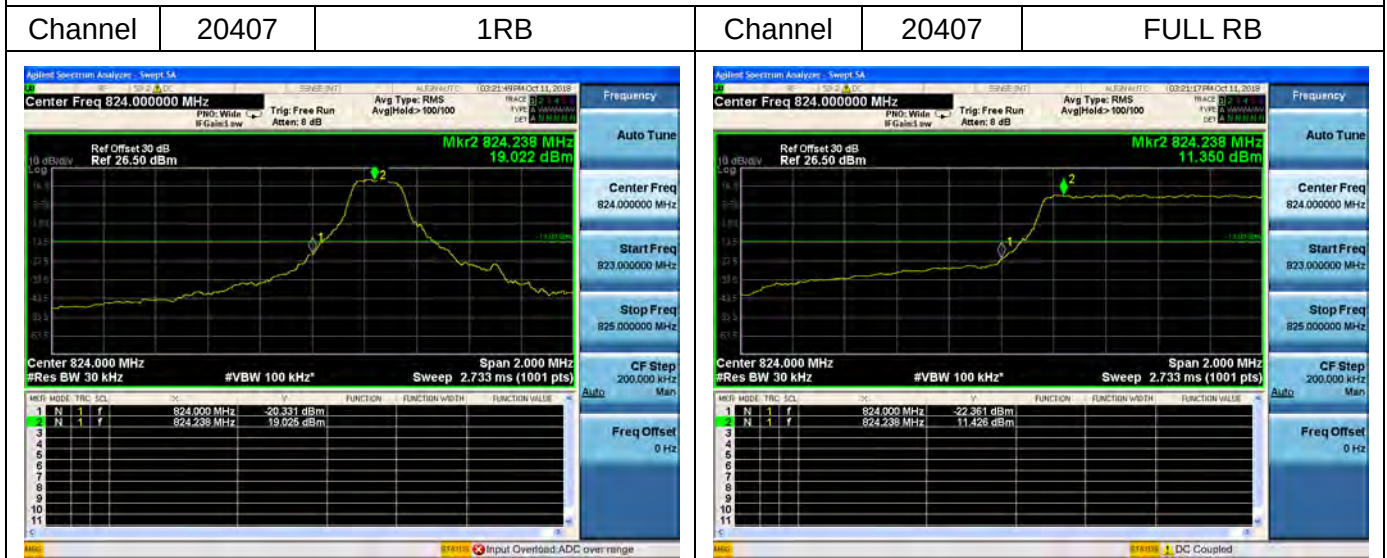
Channel Bandwidth: 20MHz

Channel Bandwidth: 20MHz

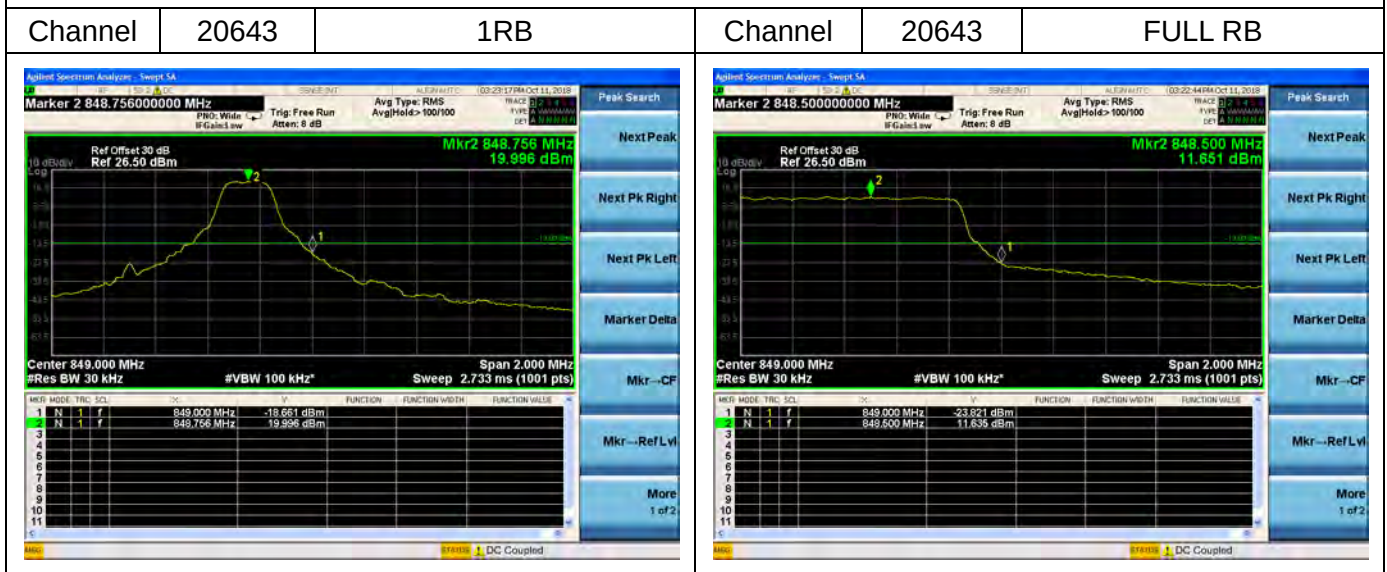


LTE Band 5

Channel Bandwidth: 1.4MHz



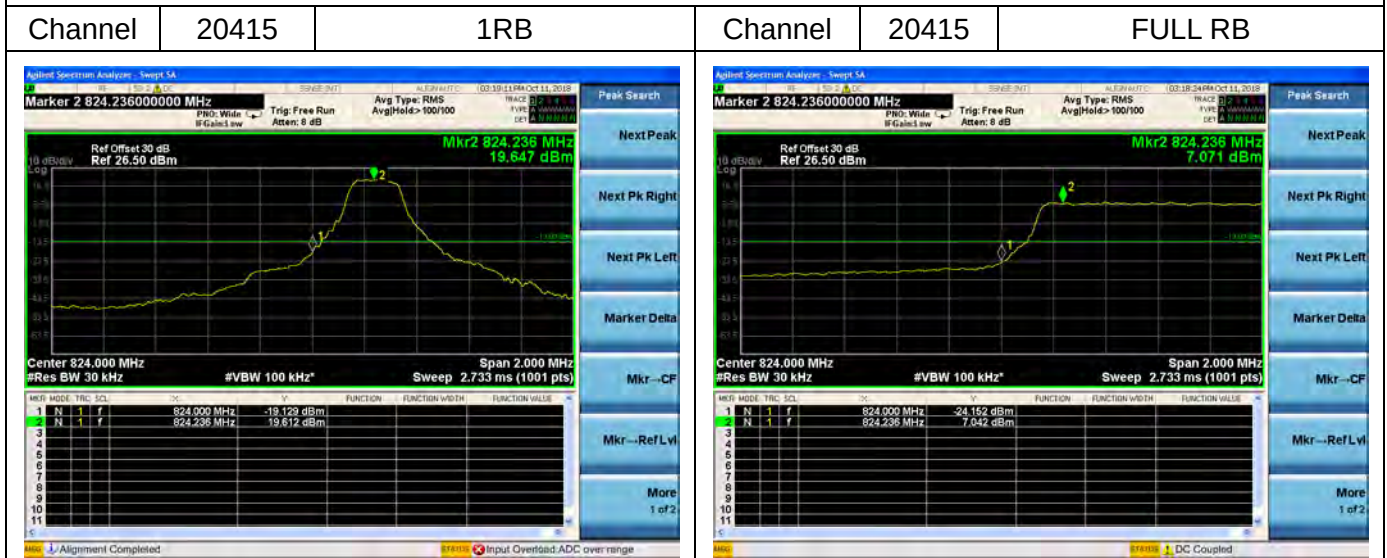
Channel Bandwidth: 1.4MHz



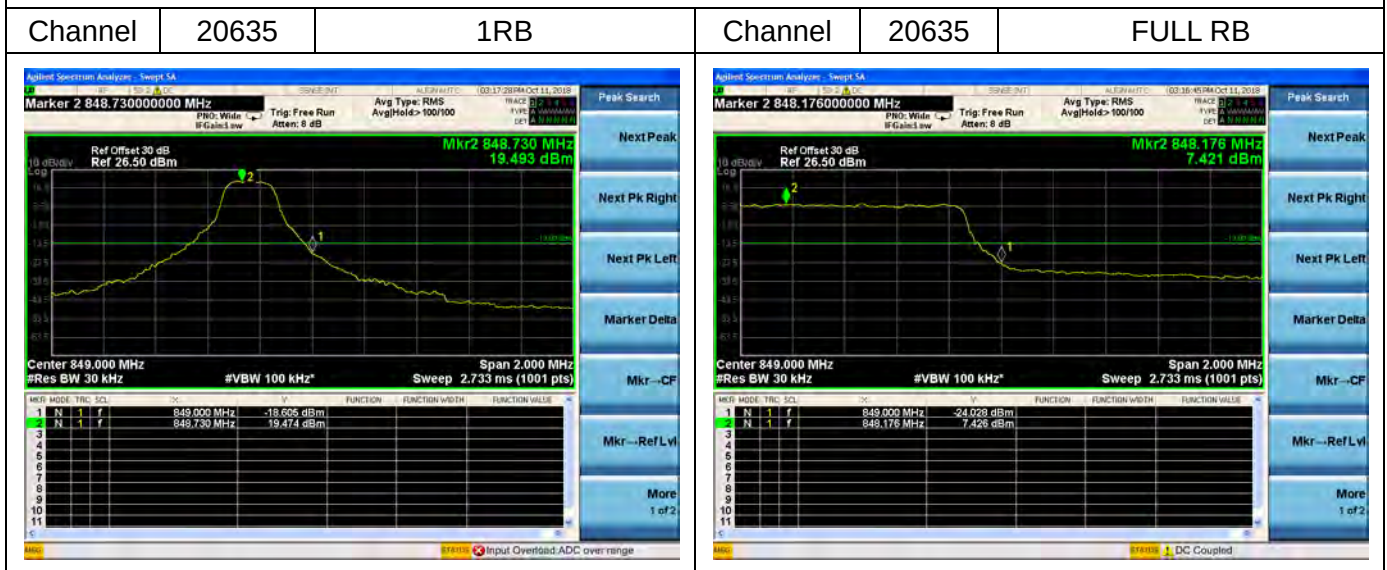


LTE Band 5

Channel Bandwidth: 3MHz



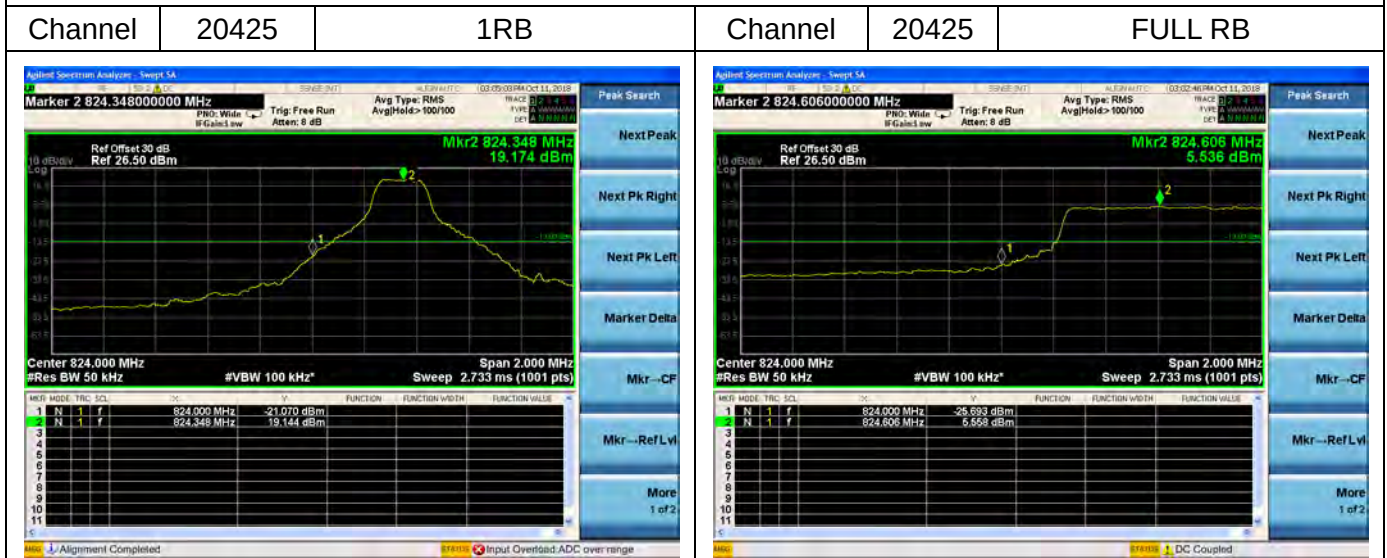
Channel Bandwidth: 3MHz



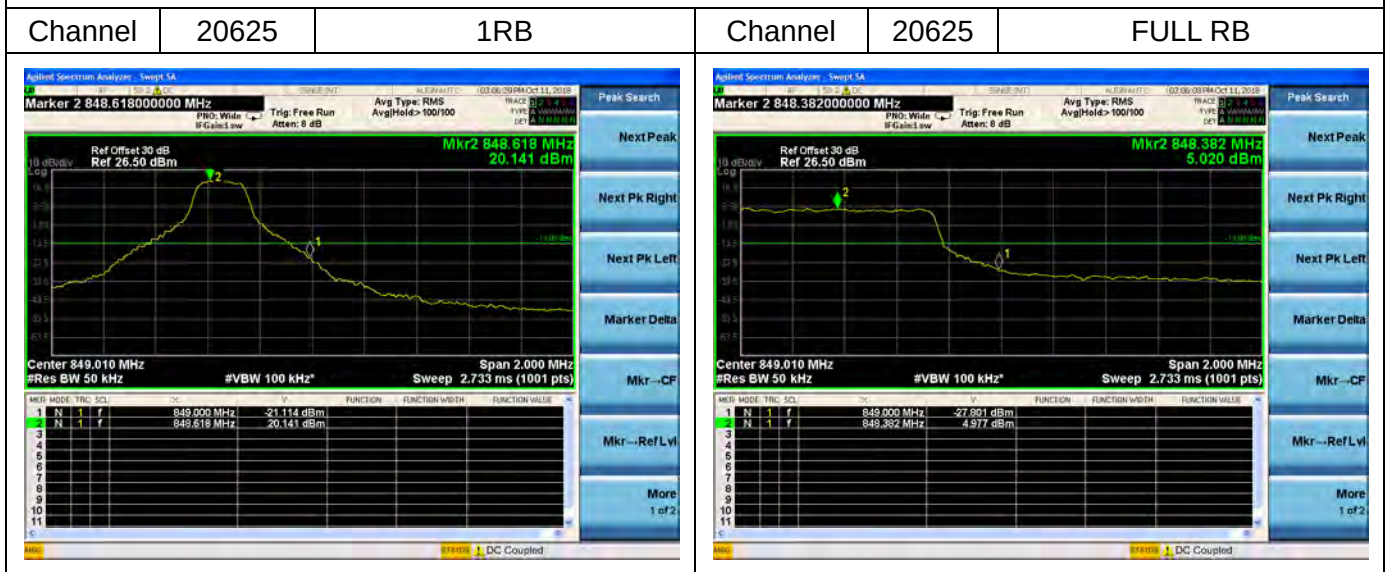


LTE Band 5

Channel Bandwidth: 5MHz



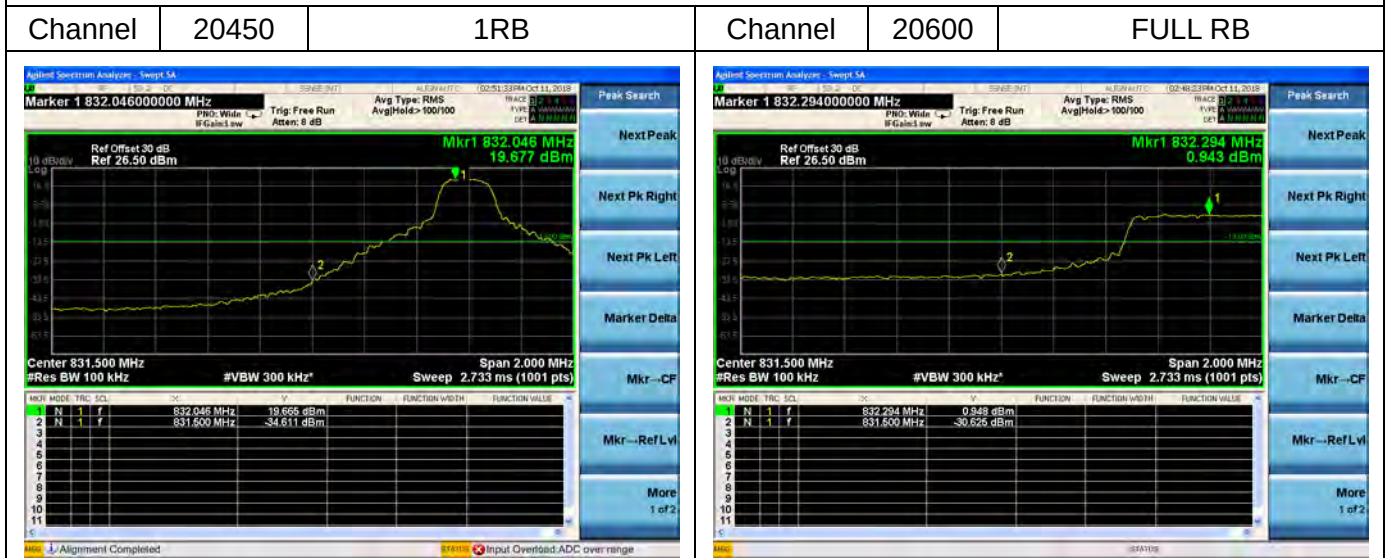
Channel Bandwidth: 5MHz





LTE Band 5

Channel Bandwidth: 10MHz



Channel Bandwidth: 10MHz

