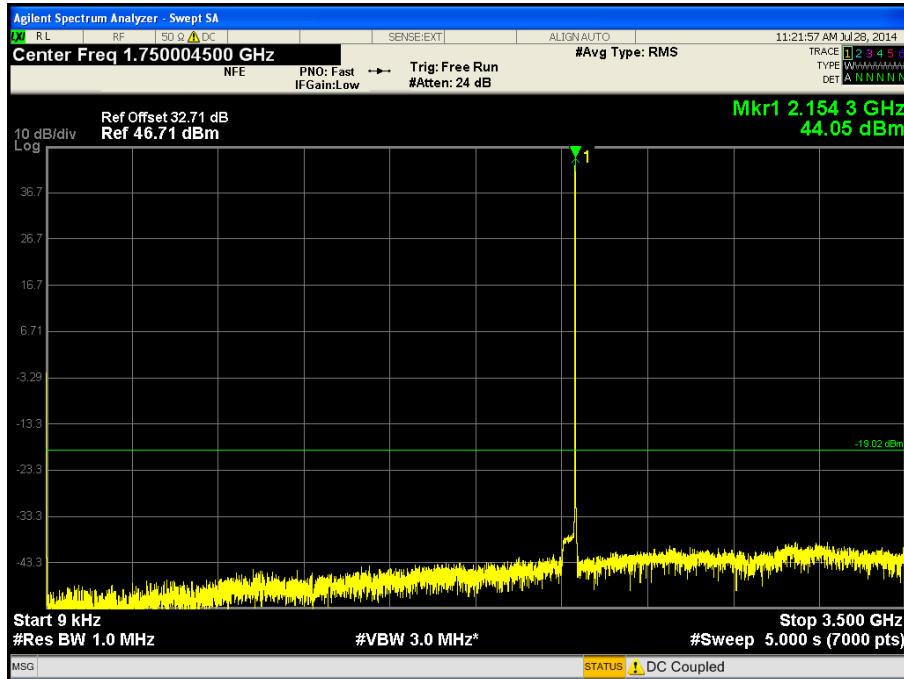
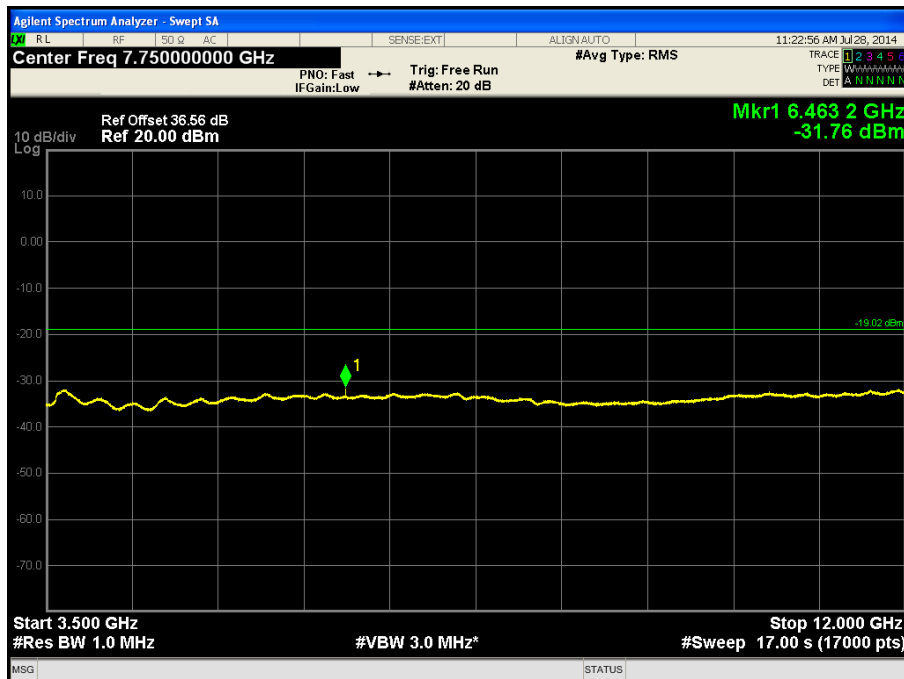


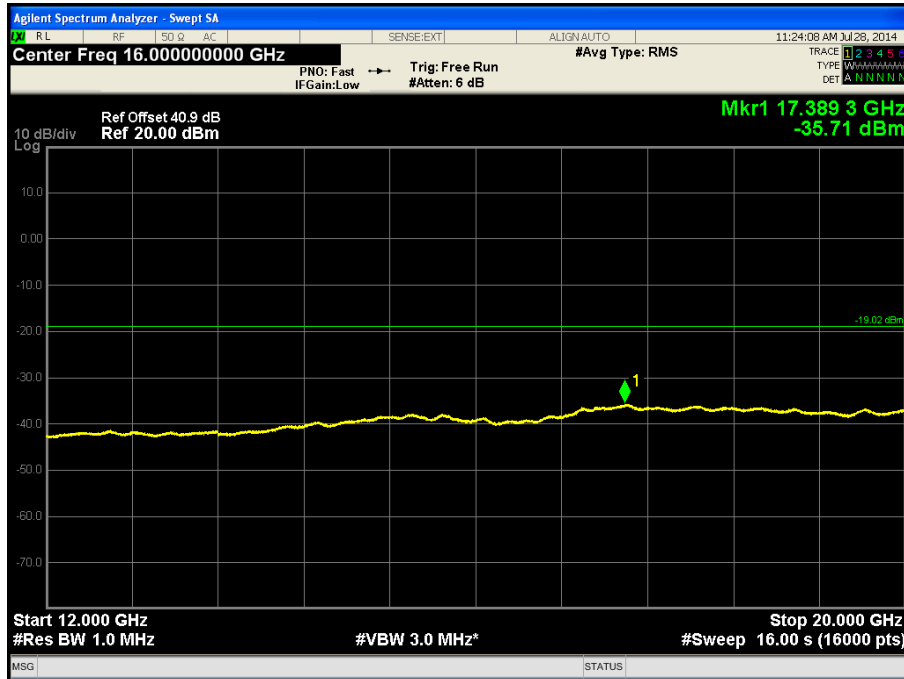
Channel Position T - Carrier Bandwidth 1.4 MHz - Band 1 - Range 0.009 to 3500 MHz – Antenna Port C



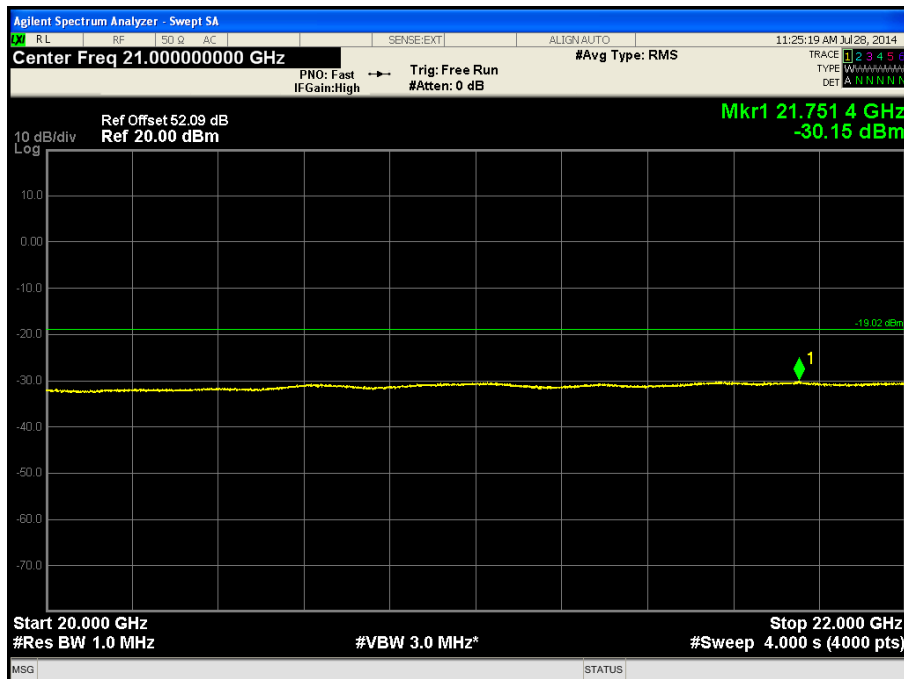
Channel Position T - Carrier Bandwidth 1.4 MHz - Band 2 - Range 3500 to 12000 MHz – Antenna Port C



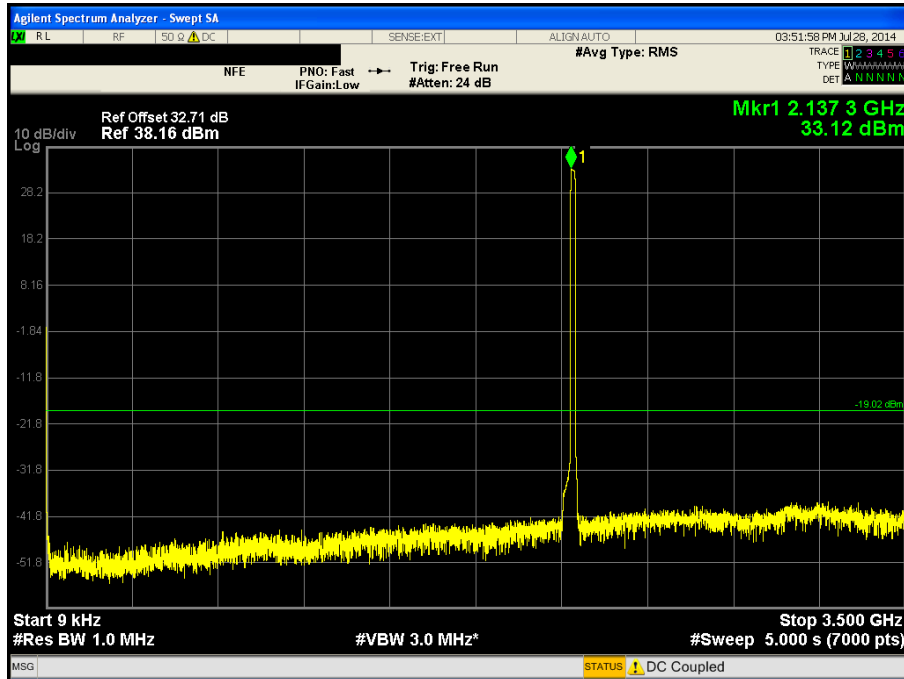
Channel Position T - Carrier Bandwidth 1.4 MHz - Band 3 - Range 12000 to 20000 MHz – Antenna Port C



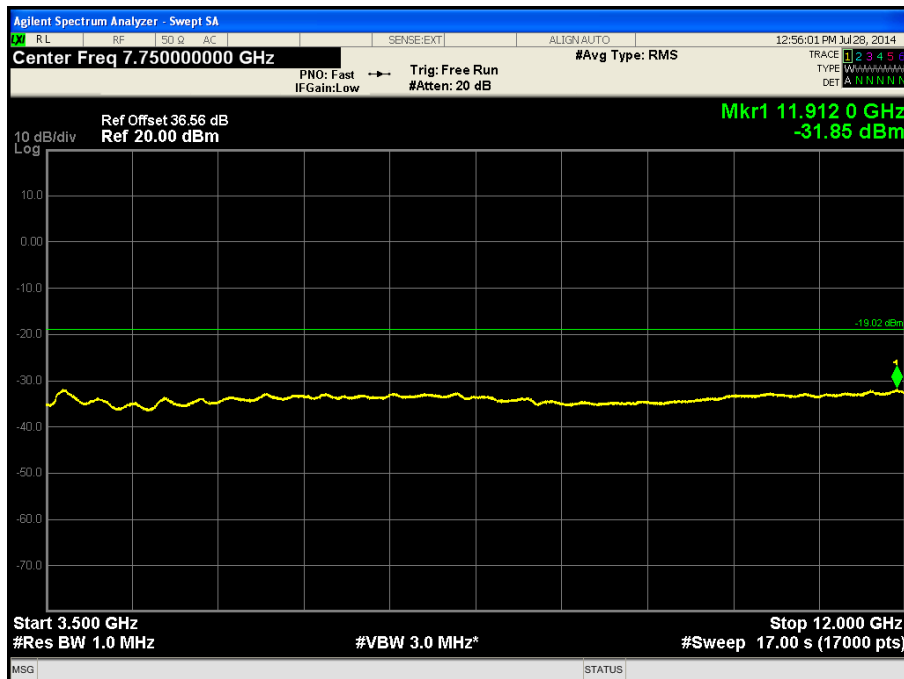
Channel Position T - Carrier Bandwidth 1.4 MHz - Band 4 - Range 20000 to 22000 MHz – Antenna Port C



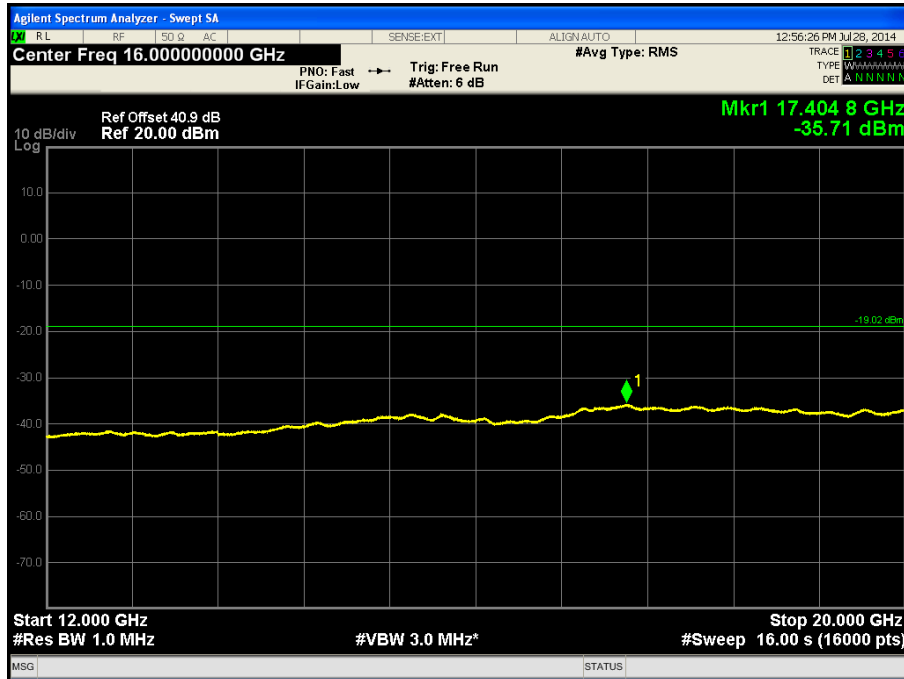
Channel Position T - Carrier Bandwidth 20.0 MHz - Band 1 - Range 0.009 to 3500 MHz – Antenna Port C



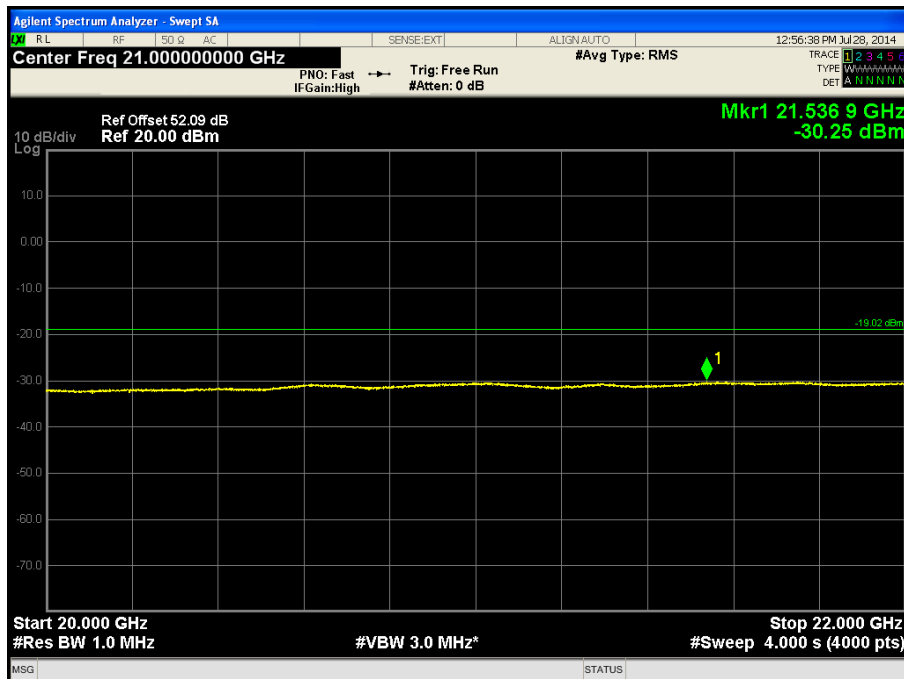
Channel Position T - Carrier Bandwidth 20.0 MHz - Band 2 - Range 3500 to 12000 MHz – Antenna Port C



Channel Position T - Carrier Bandwidth 20.0 MHz - Band 3 - Range 12000 to 20000 MHz – Antenna Port C



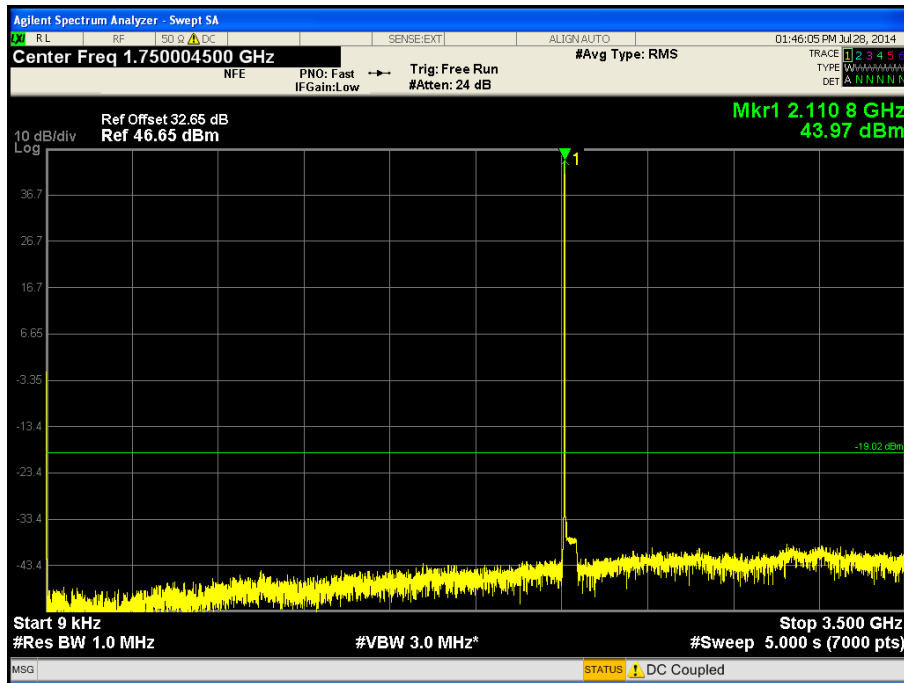
Channel Position T - Carrier Bandwidth 20.0 MHz - Band 4 - Range 20000 to 22000 MHz – Antenna Port C



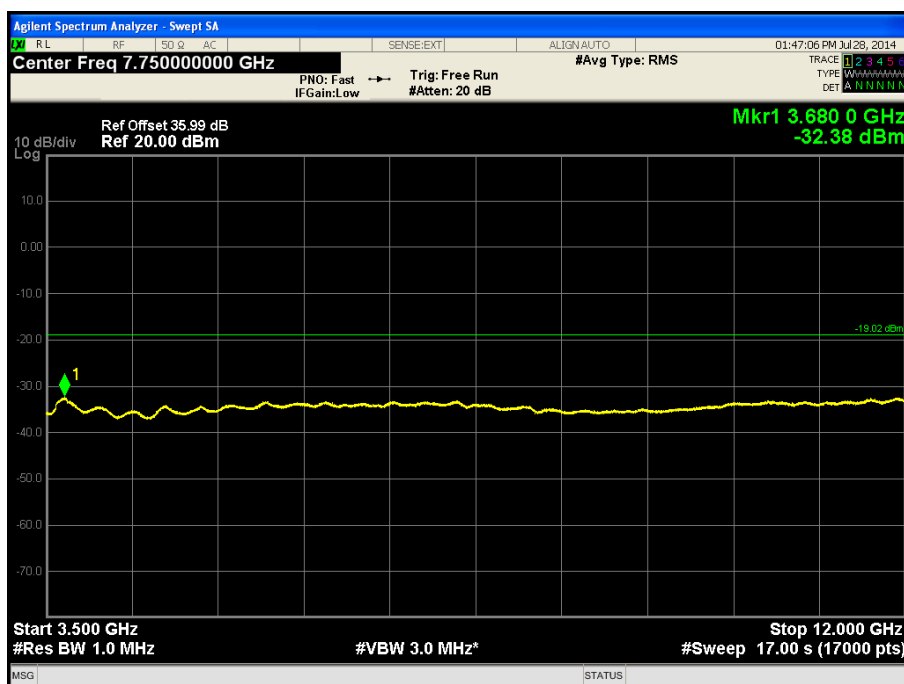
Configuration LTE (See Table 1 for carrier frequency)

Maximum Output Power 44.77 dBm per carrier, Test Model 1.1 - Antenna Port D

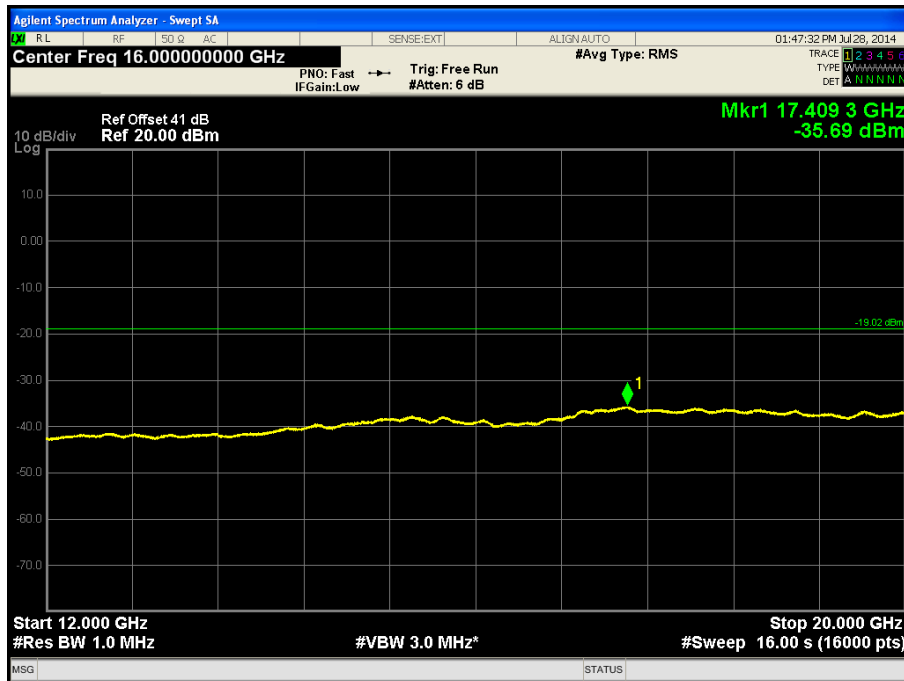
Channel Position B - Carrier Bandwidth 1.4 MHz - Band 1 - Range 0.009 to 3500 MHz – Antenna Port D



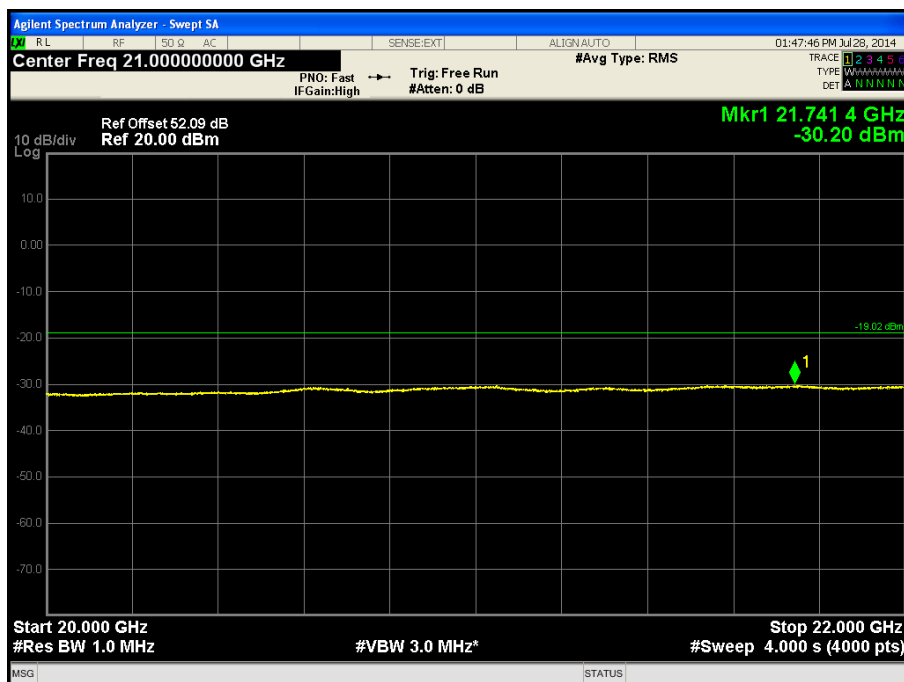
Channel Position B - Carrier Bandwidth 1.4 MHz - Band 2 - Range 3500 to 12000 MHz – Antenna Port D



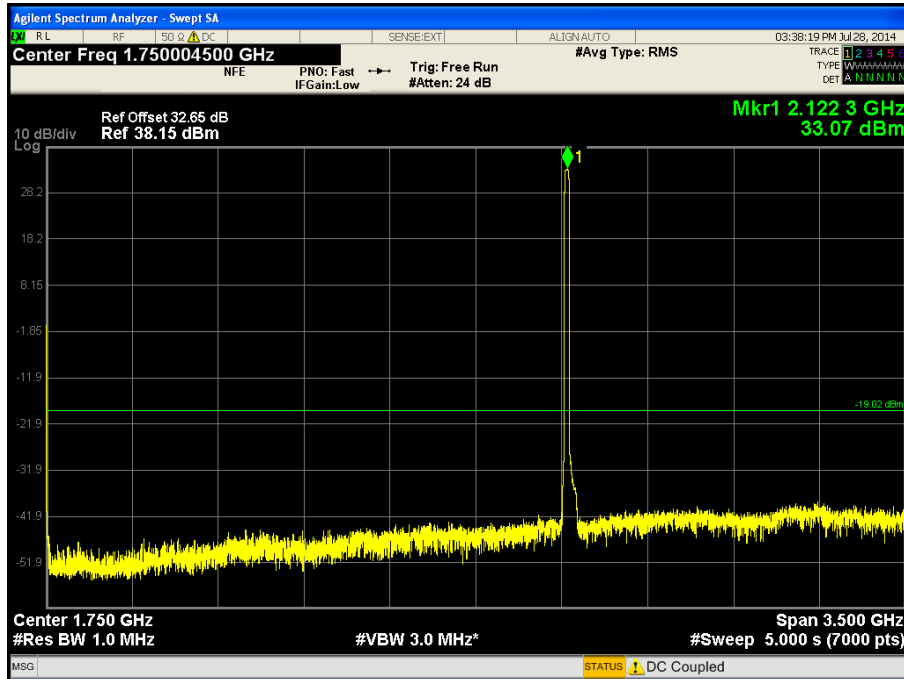
Channel Position B - Carrier Bandwidth 1.4 MHz - Band 3 - Range 12000 to 20000 MHz – Antenna Port D



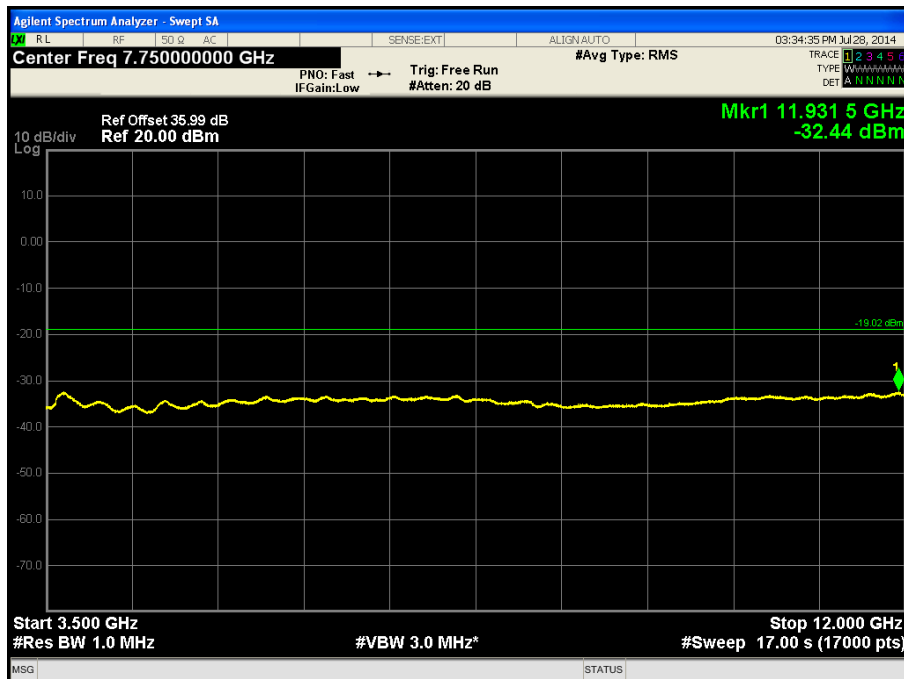
Channel Position B - Carrier Bandwidth 1.4 MHz - Band 4 - Range 20000 to 22000 MHz – Antenna Port D



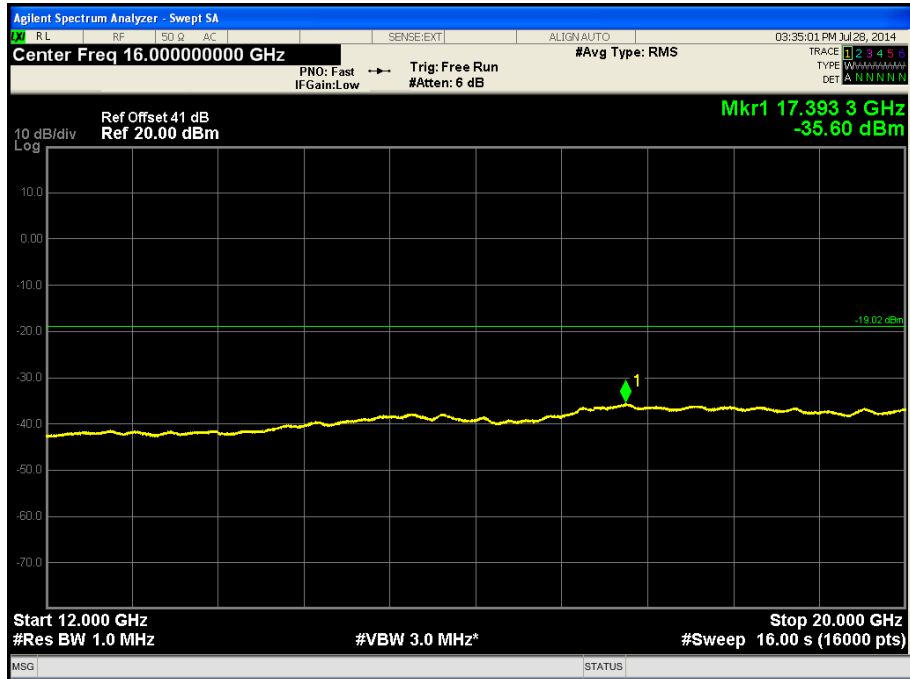
Channel Position B - Carrier Bandwidth 20.0 MHz - Band 1 - Range 0.009 to 3500 MHz – Antenna Port D



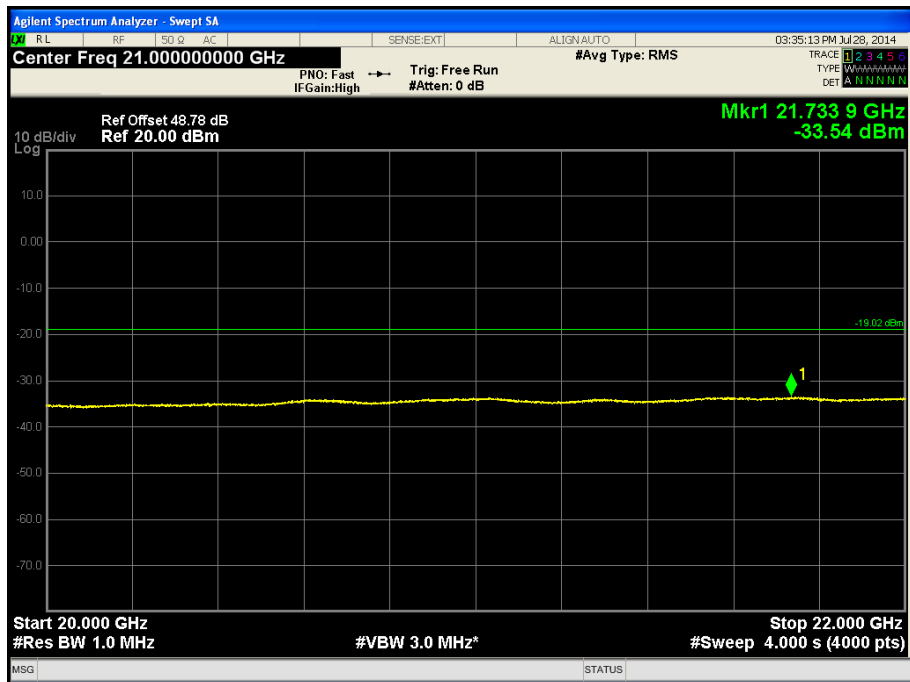
Channel Position B - Carrier Bandwidth 20.0 MHz - Band 2 - Range 3500 to 12000 MHz – Antenna Port D



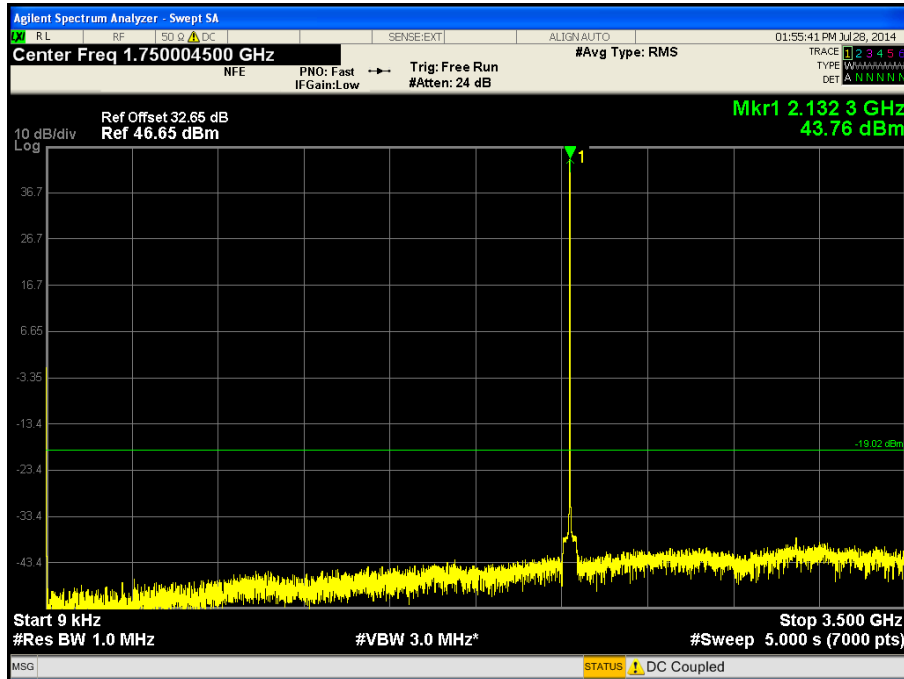
Channel Position B - Carrier Bandwidth 20.0 MHz - Band 3 - Range 12000 to 20000 MHz – Antenna Port D



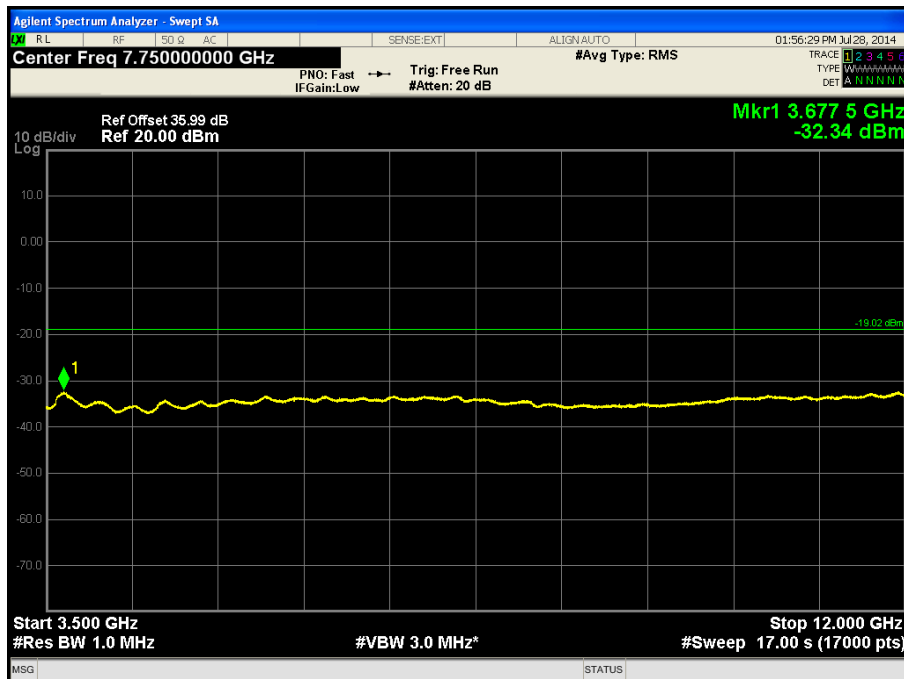
Channel Position B - Carrier Bandwidth 20.0 MHz - Band 4 - Range 20000 to 22000 MHz – Antenna Port D



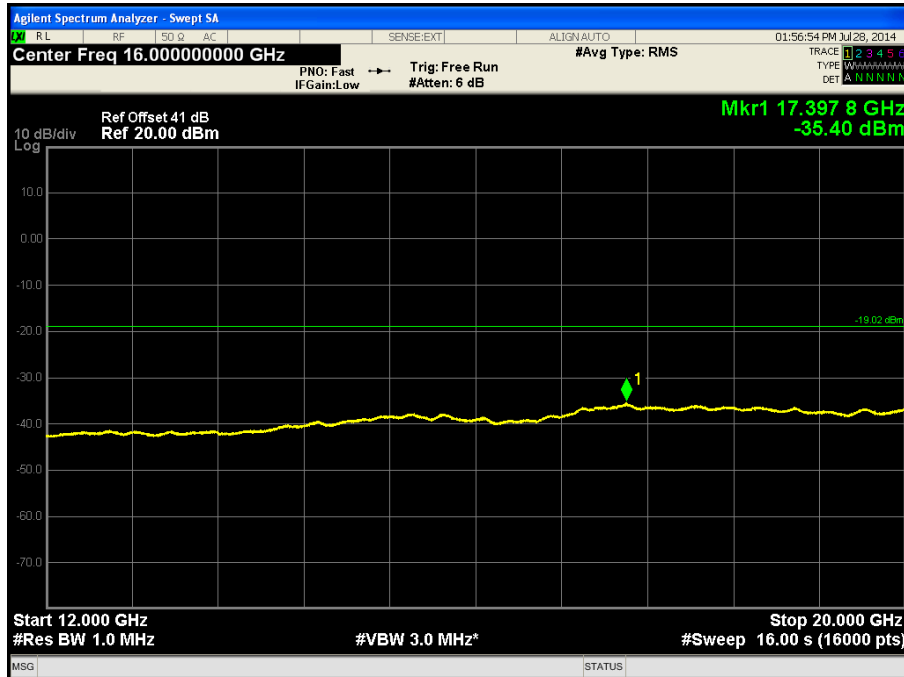
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 1 - Range 0.009 to 3500 MHz – Antenna Port D



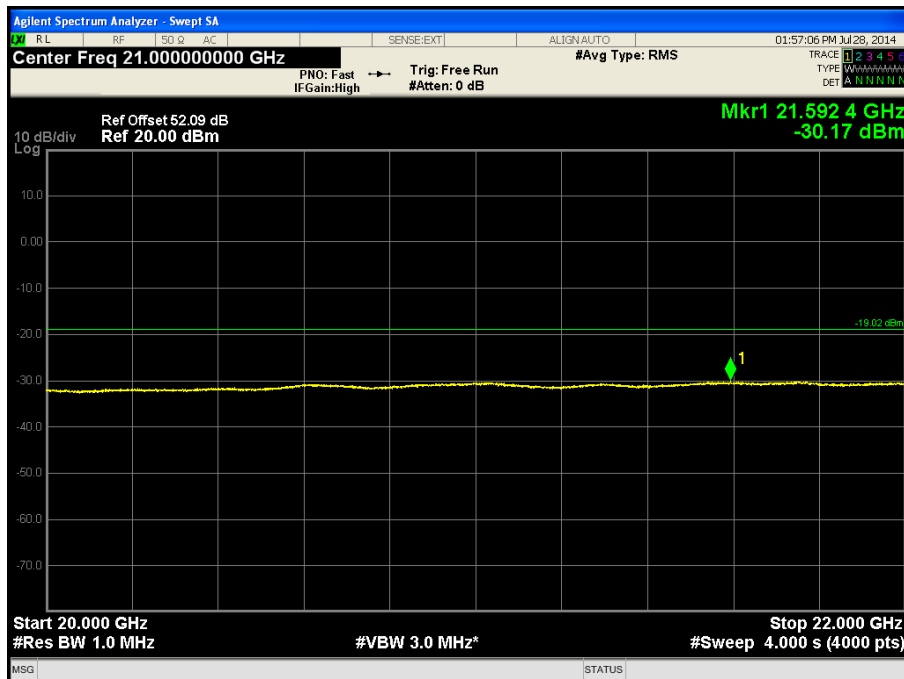
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 2 - Range 3500 to 12000 MHz – Antenna Port D



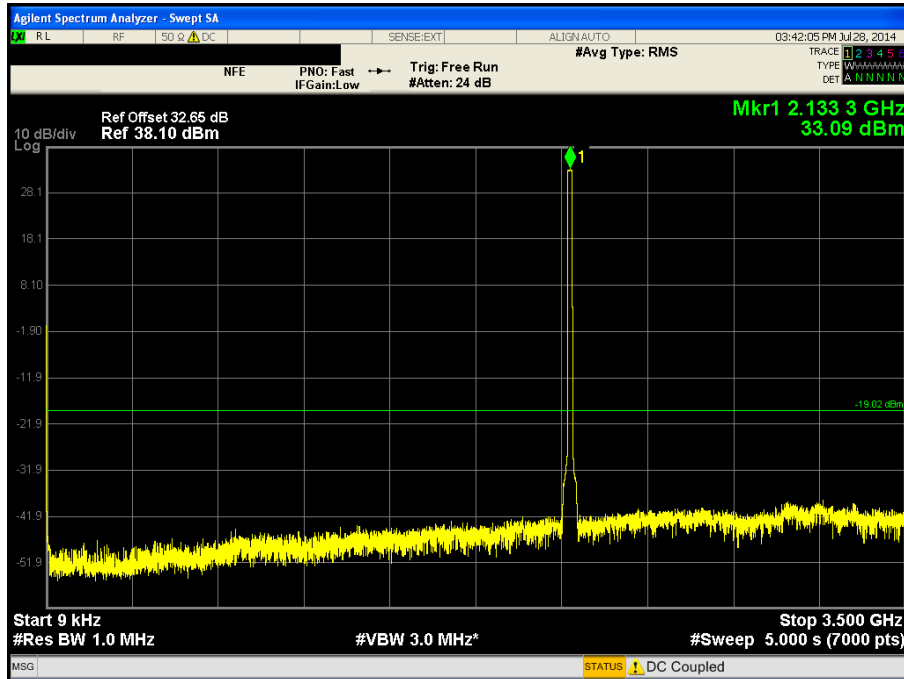
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 3 - Range 12000 to 20000 MHz – Antenna Port D



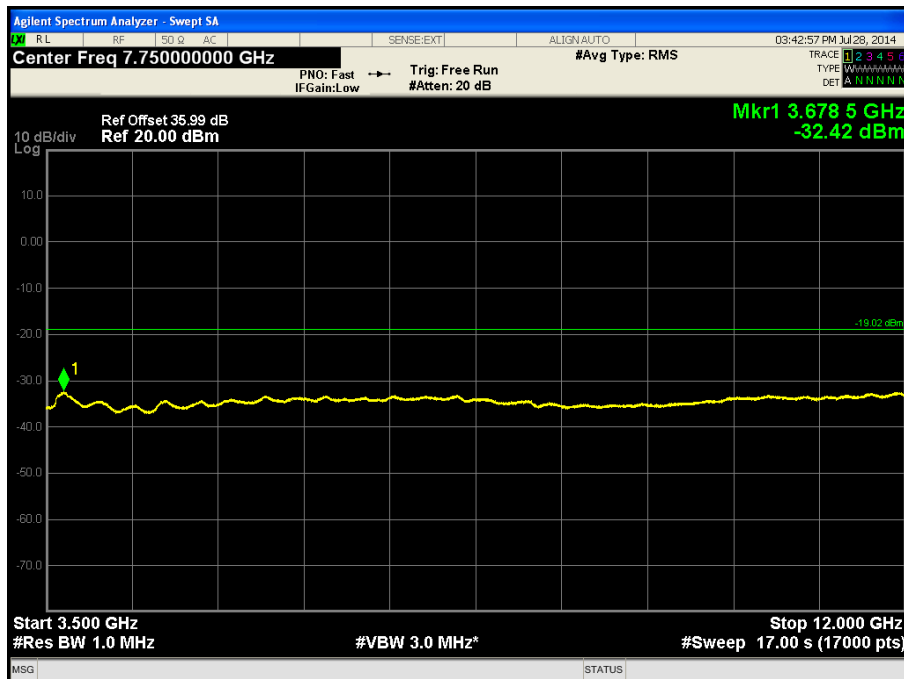
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 4 - Range 20000 to 22000 MHz – Antenna Port D



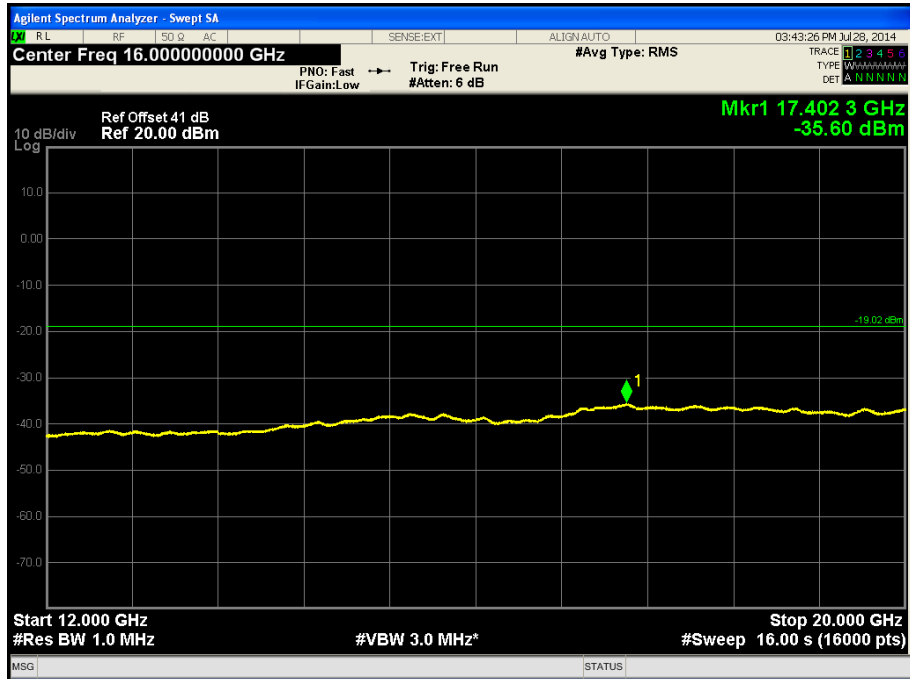
Channel Position M - Carrier Bandwidth 20.0 MHz - Band 1 - Range 0.009 to 3500 MHz – Antenna Port D



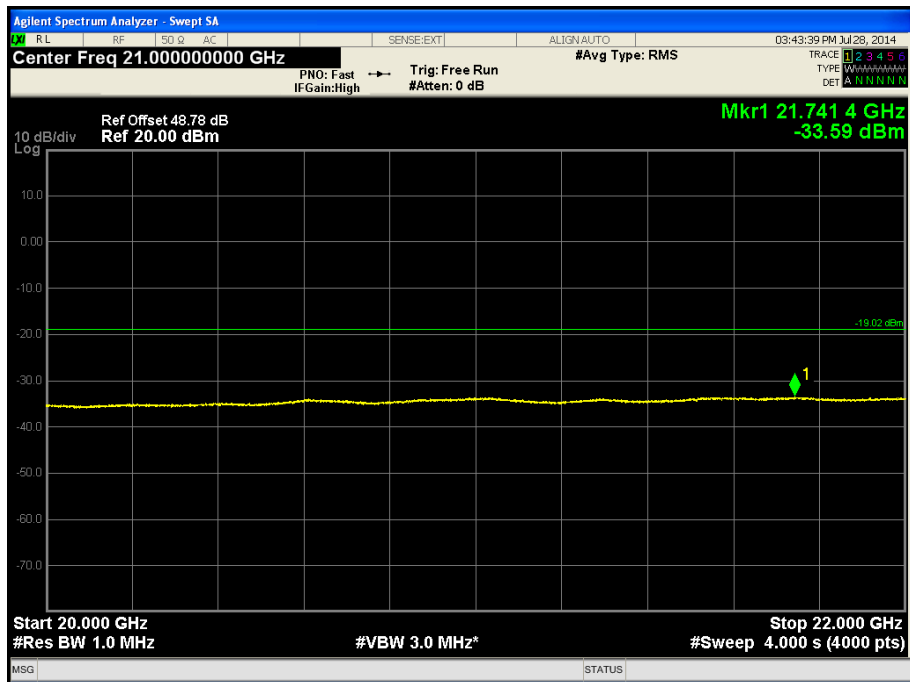
Channel Position M - Carrier Bandwidth 20.0 MHz - Band 2 - Range 3500 to 12000 MHz – Antenna Port D



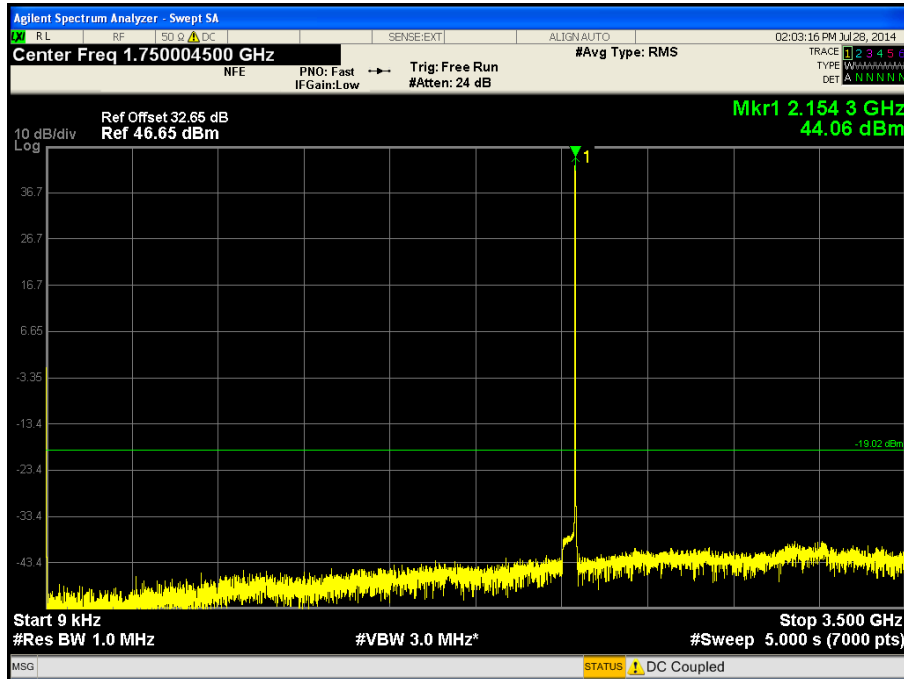
Channel Position M - Carrier Bandwidth 20.0 MHz - Band 3 - Range 12000 to 20000 MHz – Antenna Port D



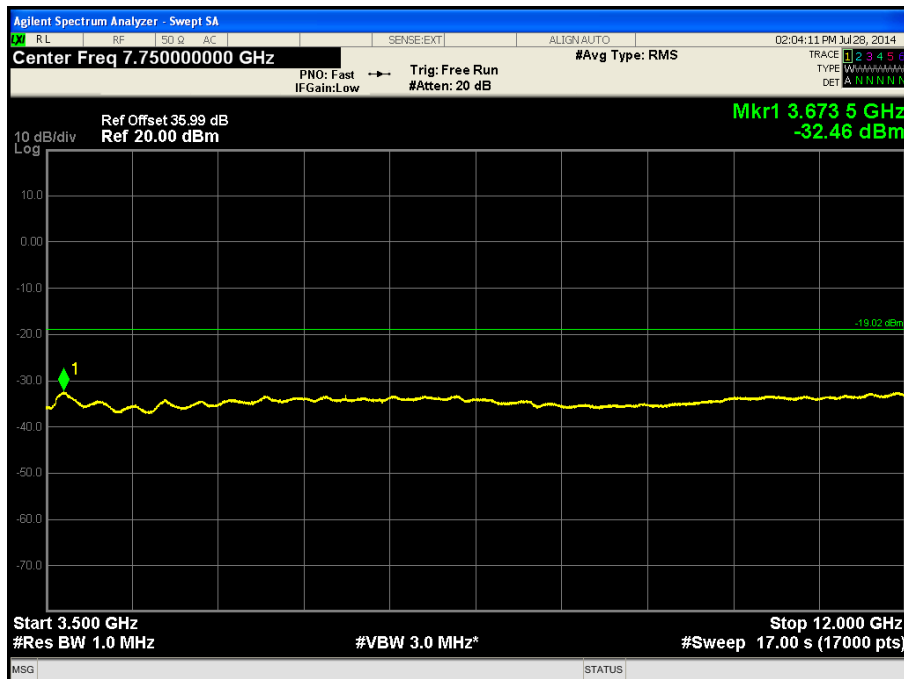
Channel Position M - Carrier Bandwidth 20.0 MHz - Band 4 - Range 20000 to 22000 MHz – Antenna Port D



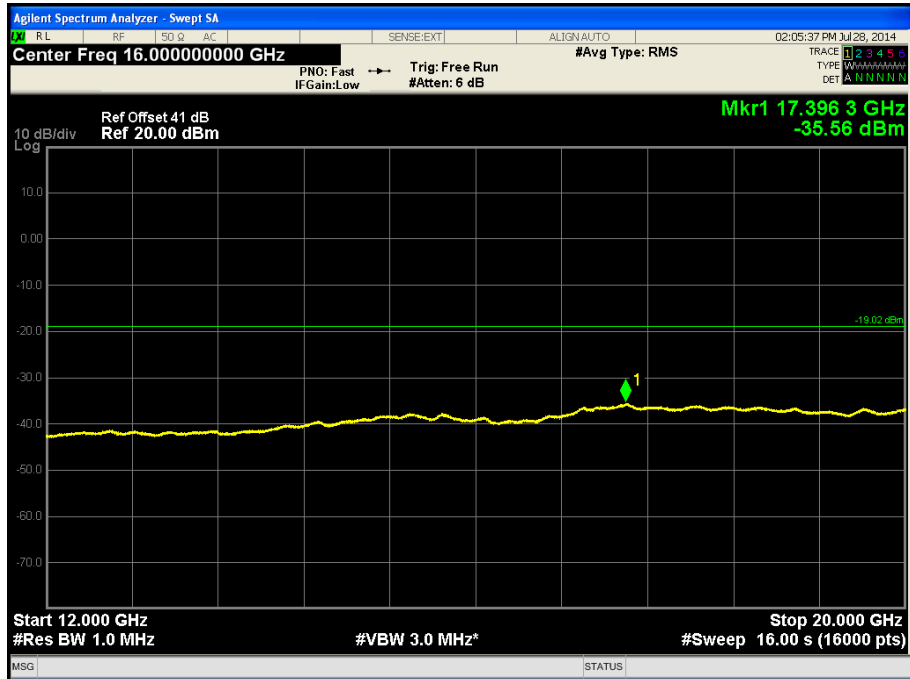
Channel Position T - Carrier Bandwidth 1.4 MHz - Band 1 - Range 0.009 to 3500 MHz – Antenna Port D



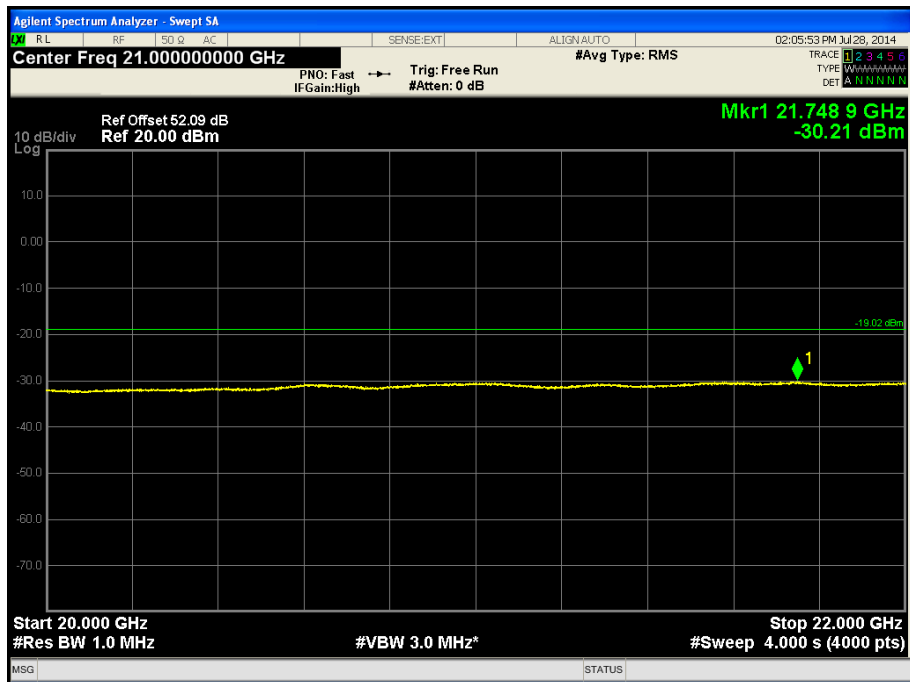
Channel Position T - Carrier Bandwidth 1.4 MHz - Band 2 - Range 3500 to 12000 MHz – Antenna Port D



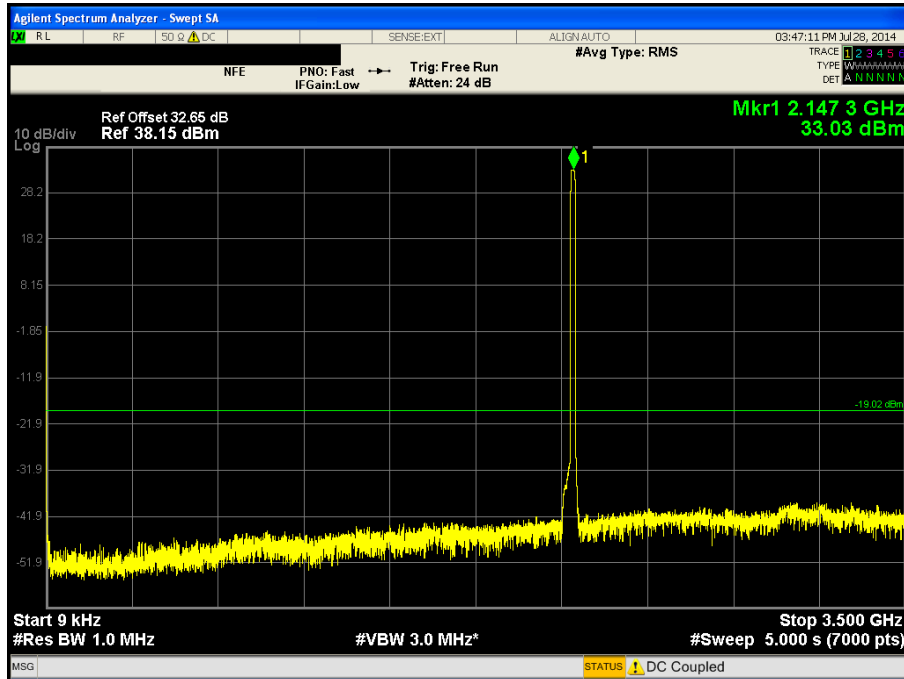
Channel Position T - Carrier Bandwidth 1.4 MHz - Band 3 - Range 12000 to 20000 MHz – Antenna Port D



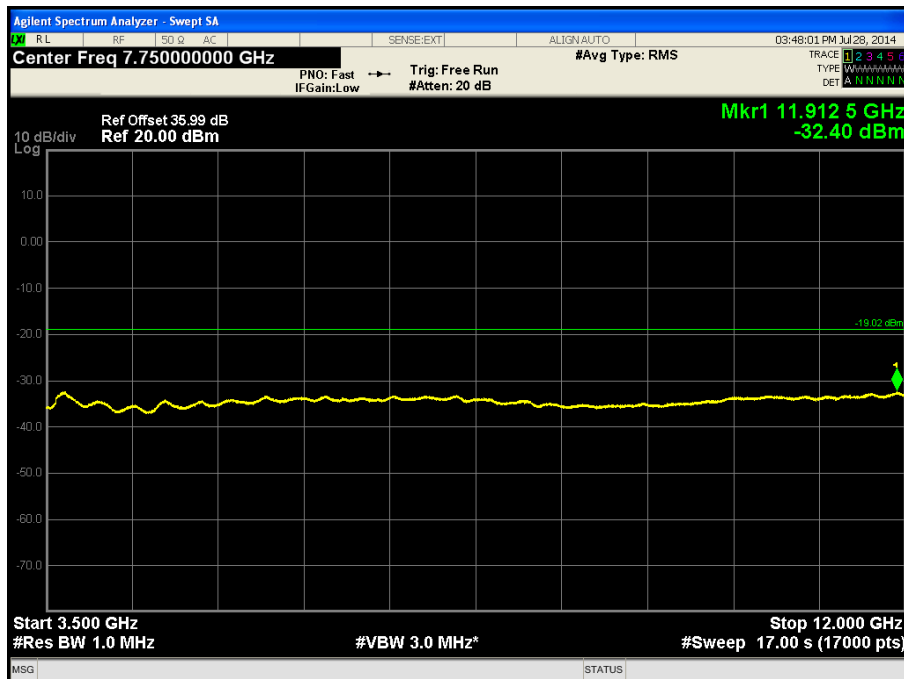
Channel Position T - Carrier Bandwidth 1.4 MHz - Band 4 - Range 20000 to 22000 MHz – Antenna Port D



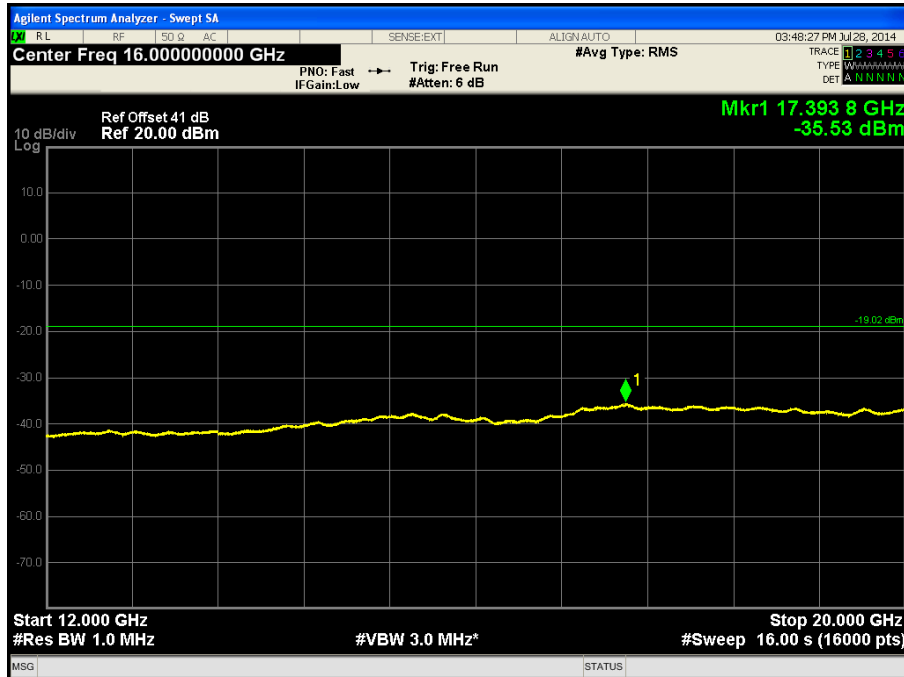
Channel Position T - Carrier Bandwidth 20.0 MHz - Band 1 - Range 0.009 to 3500 MHz – Antenna Port D



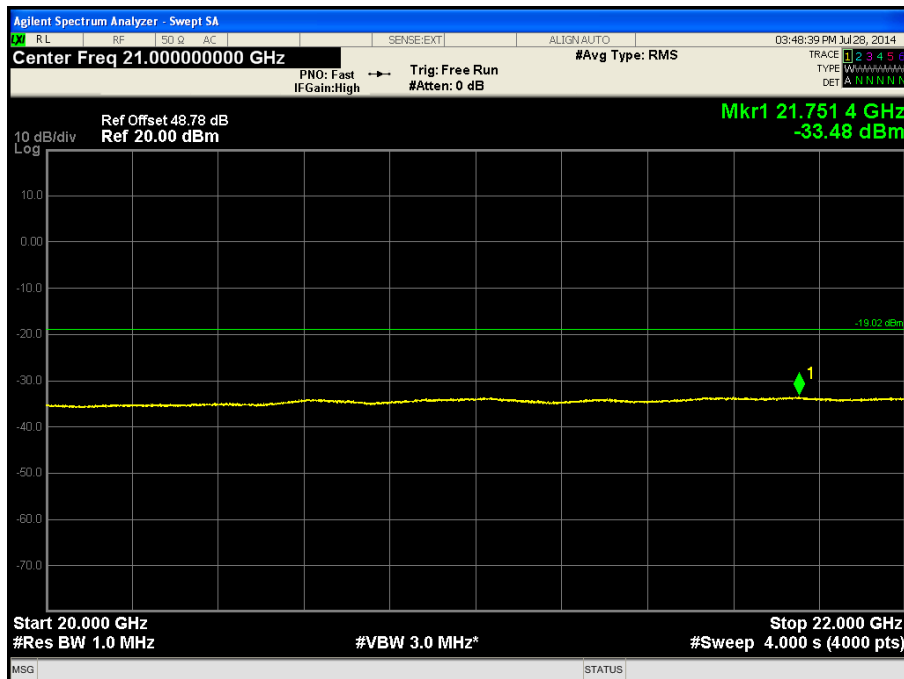
Channel Position T - Carrier Bandwidth 20.0 MHz - Band 2 - Range 3500 to 12000 MHz – Antenna Port D



Channel Position T - Carrier Bandwidth 20.0 MHz - Band 3 - Range 12000 to 20000 MHz – Antenna Port D



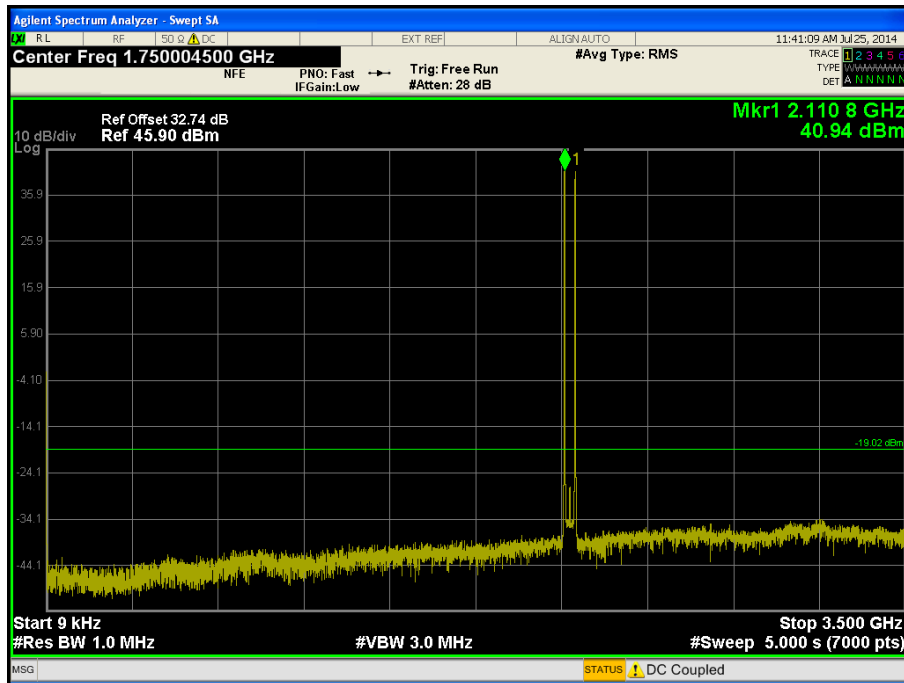
Channel Position T - Carrier Bandwidth 20.0 MHz - Band 4 - Range 20000 to 22000 MHz – Antenna Port D



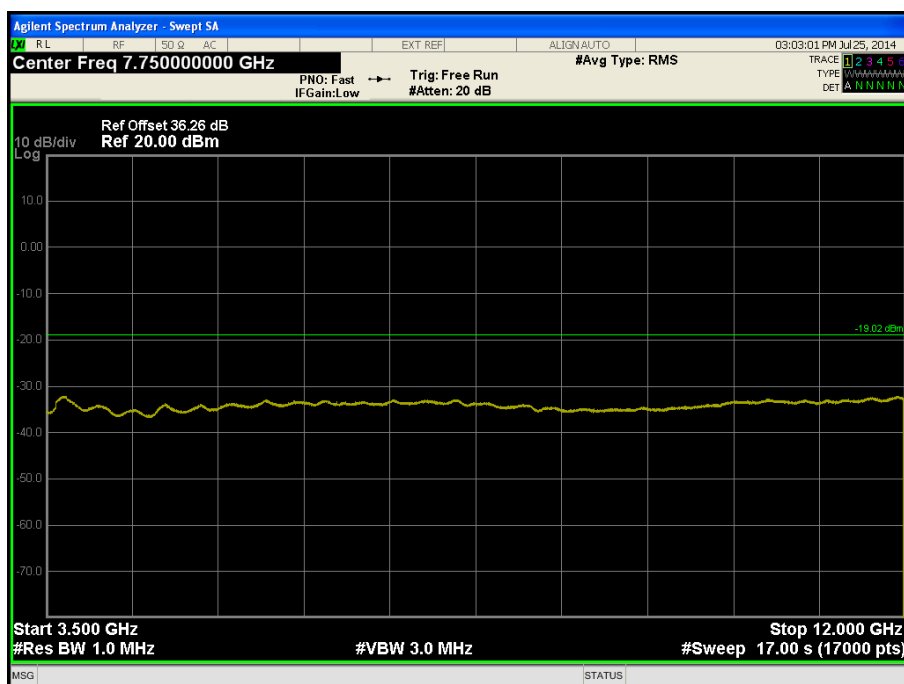
Configuration LTE-MC1 (See Table 1 for carrier frequency)

Maximum Output Power 41.76 dBm per carrier, Test Model 1.1 - Antenna Port A

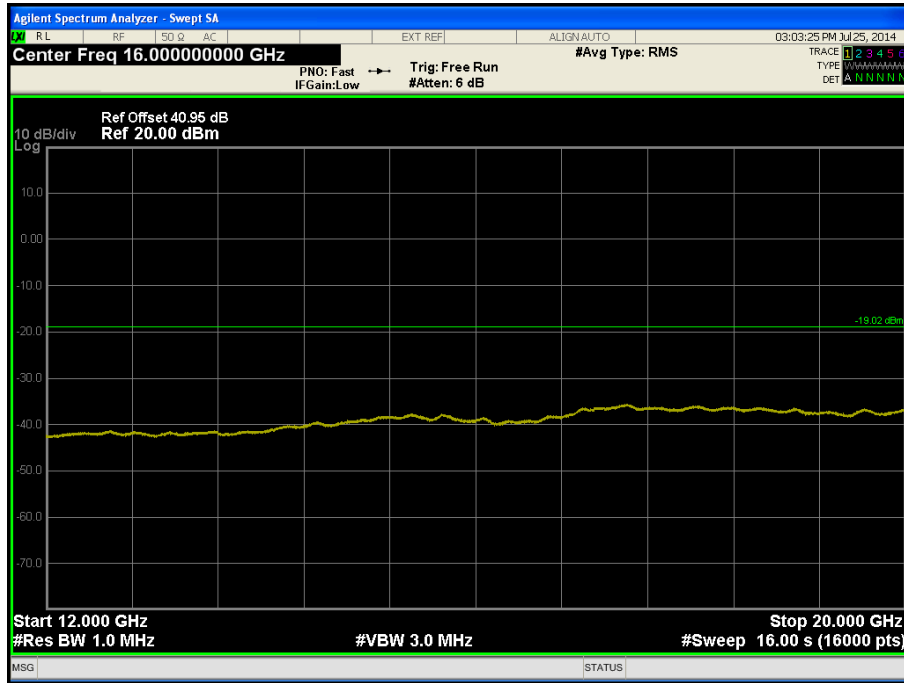
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 1 - Range 0.009 to 3500 MHz – Antenna Port A



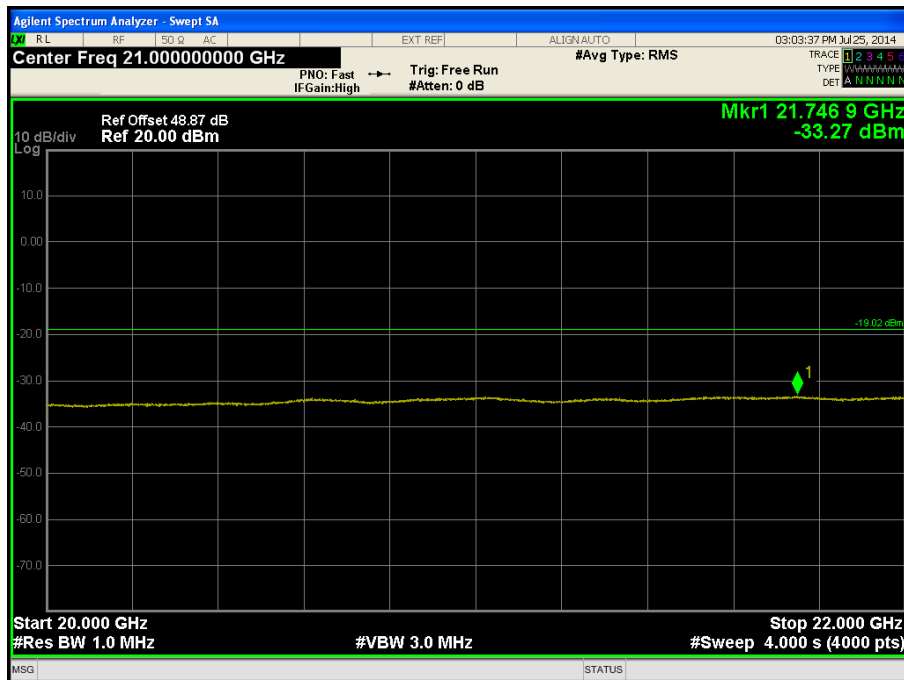
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 2 - Range 3500 to 12000 MHz – Antenna Port A



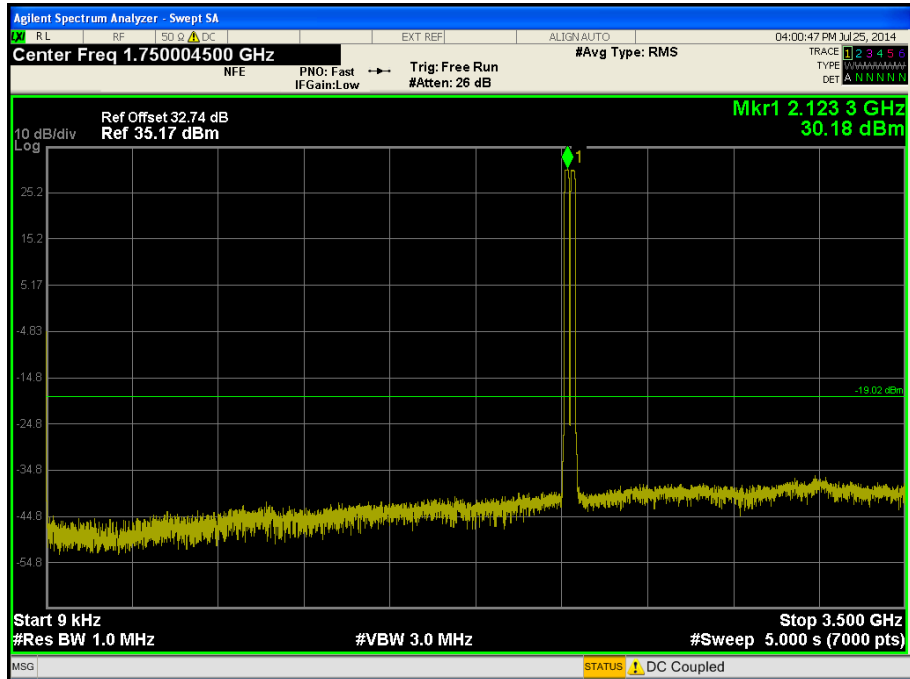
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 3 - Range 12000 to 20000 MHz – Antenna Port A



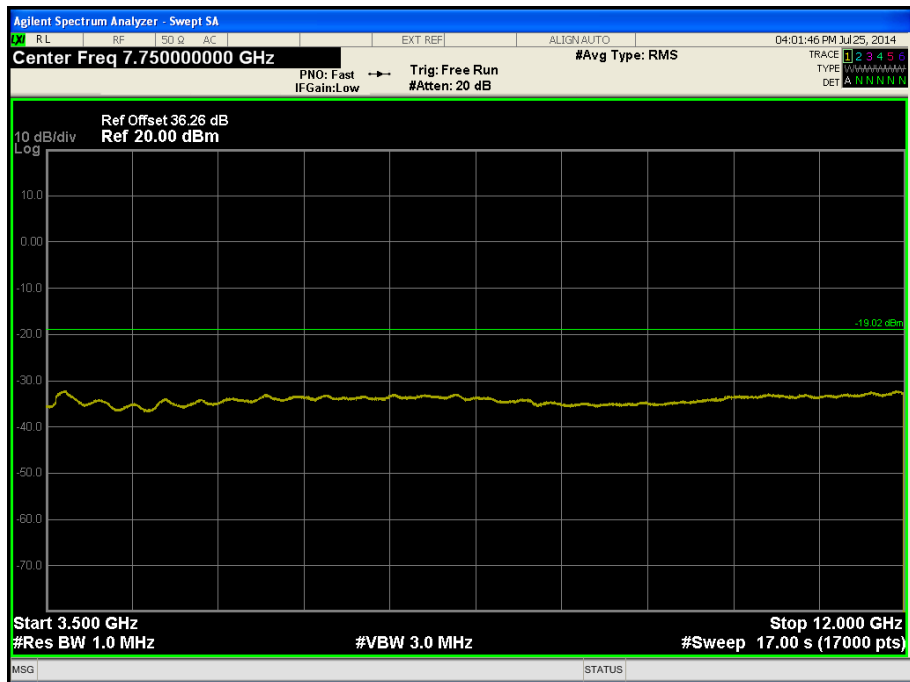
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 4 - Range 20000 to 22000 MHz – Antenna Port A



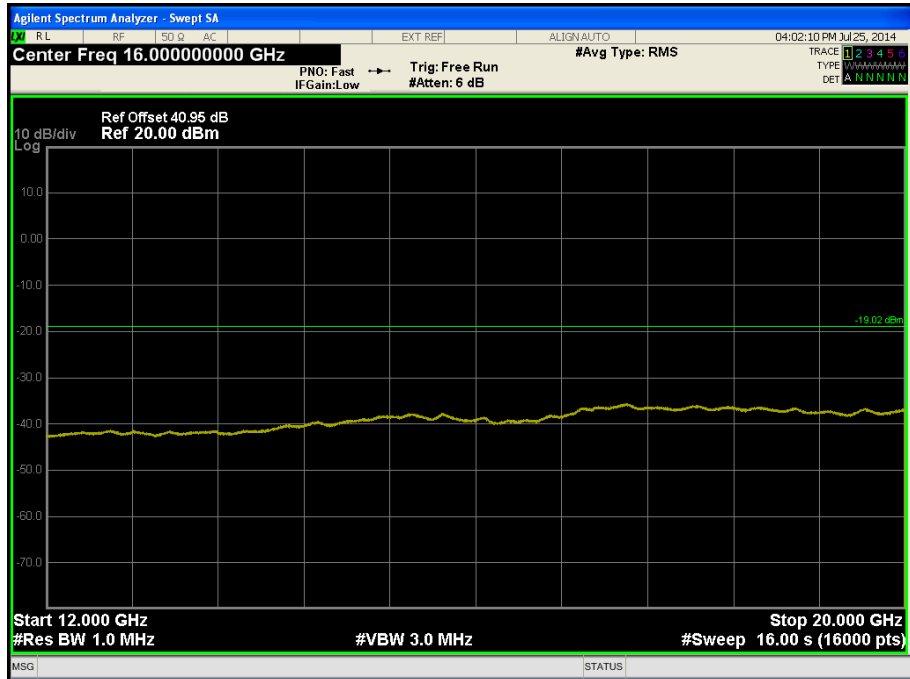
Channel Position M - Carrier Bandwidth 20.0 MHz - Band 1 - Range 0.009 to 3500 MHz – Antenna Port A



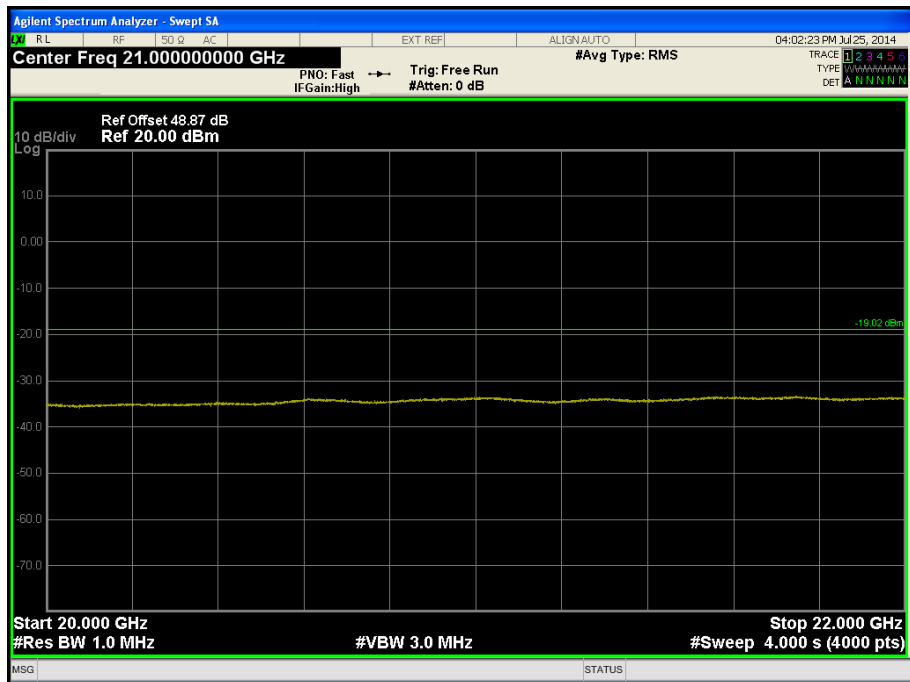
Channel Position M - Carrier Bandwidth 20.0 MHz - Band 2 - Range 3500 to 12000 MHz – Antenna Port A



Channel Position M - Carrier Bandwidth 20.0 MHz - Band 3 - Range 12000 to 20000 MHz – Antenna Port A



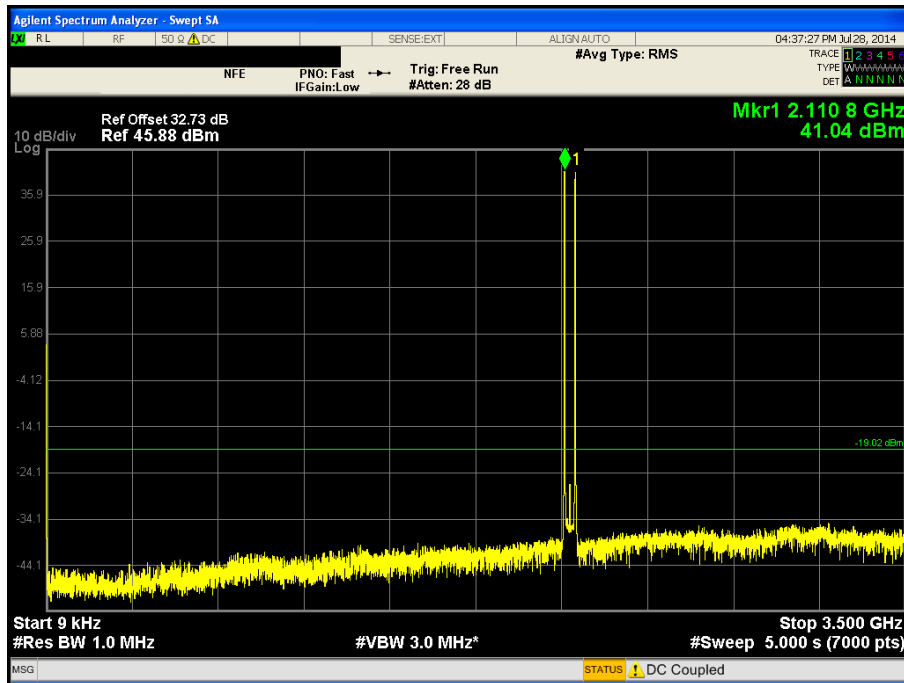
Channel Position M - Carrier Bandwidth 20.0 MHz - Band 4 - Range 20000 to 22000 MHz – Antenna Port A



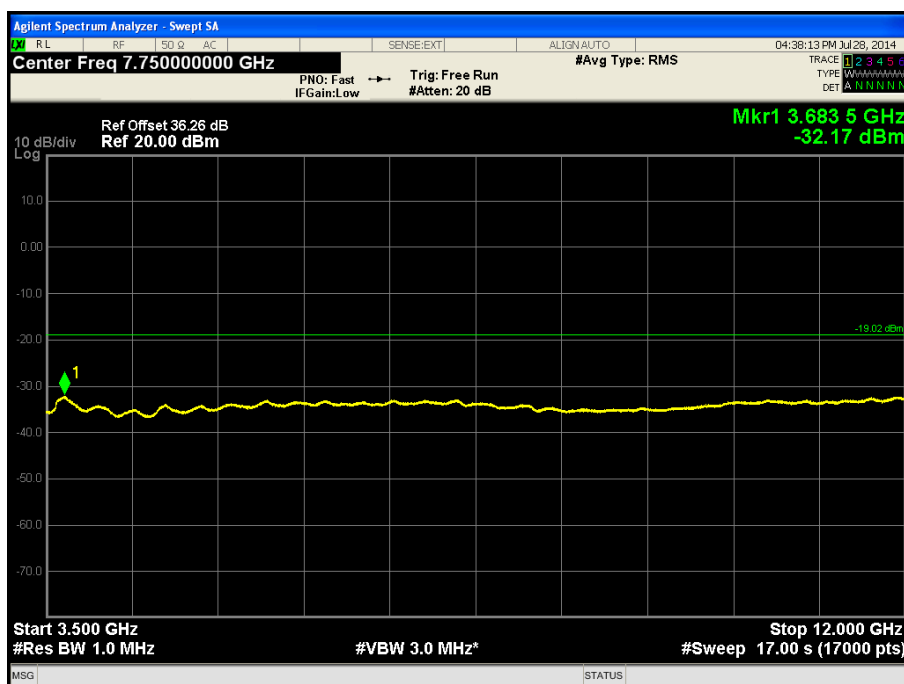
Configuration LTE-MC1 (See Table 1 for carrier frequency)

Maximum Output Power 41.76 dBm per carrier, Test Model 1.1 - Antenna Port B

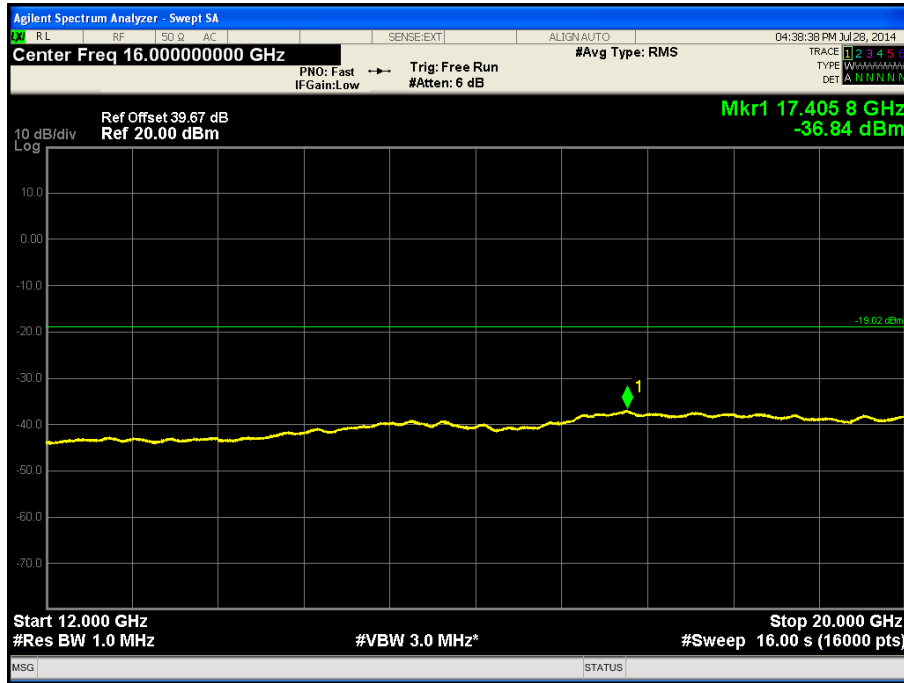
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 1 - Range 0.009 to 3500 MHz – Antenna Port B



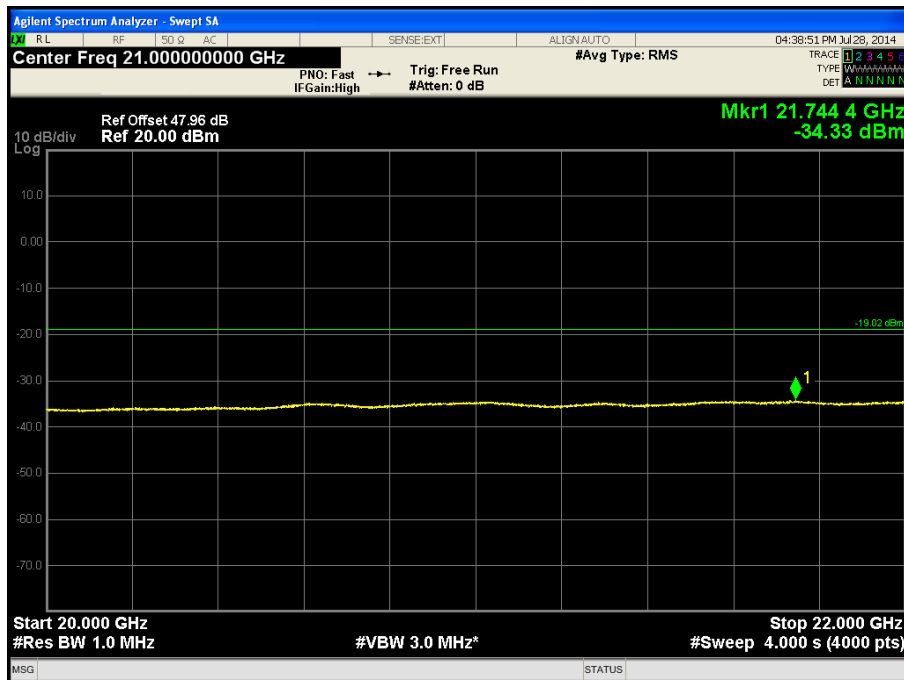
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 2 - Range 3500 to 12000 MHz – Antenna Port B



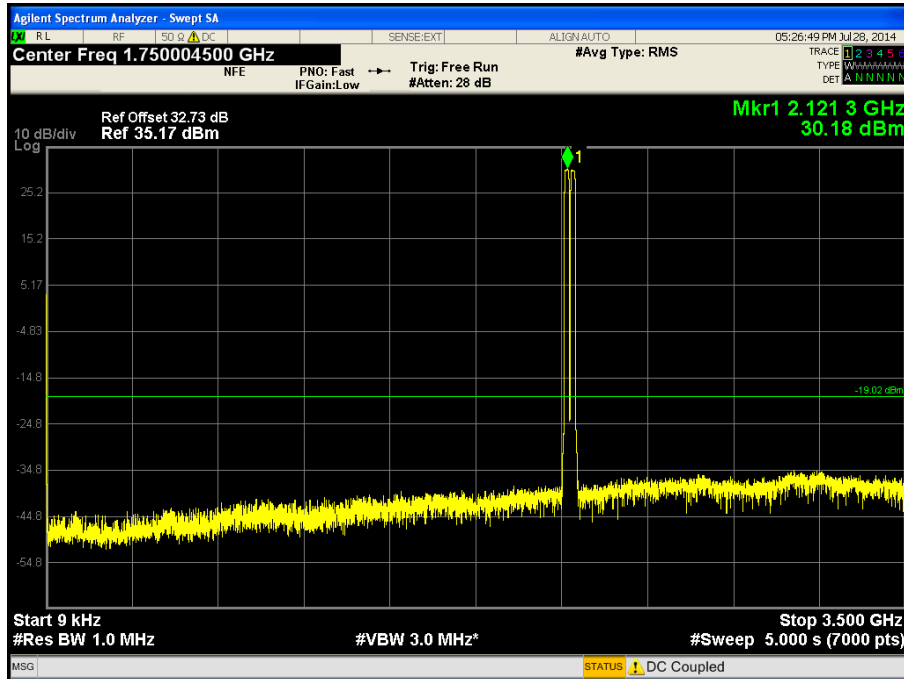
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 3 - Range 12000 to 20000 MHz – Antenna Port B



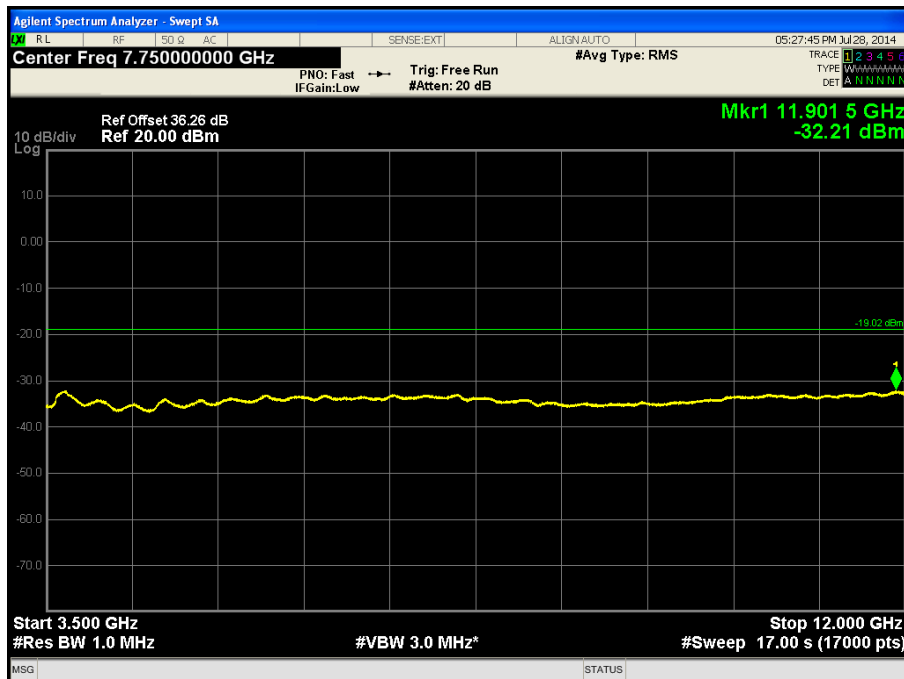
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 4 - Range 20000 to 22000 MHz – Antenna Port B



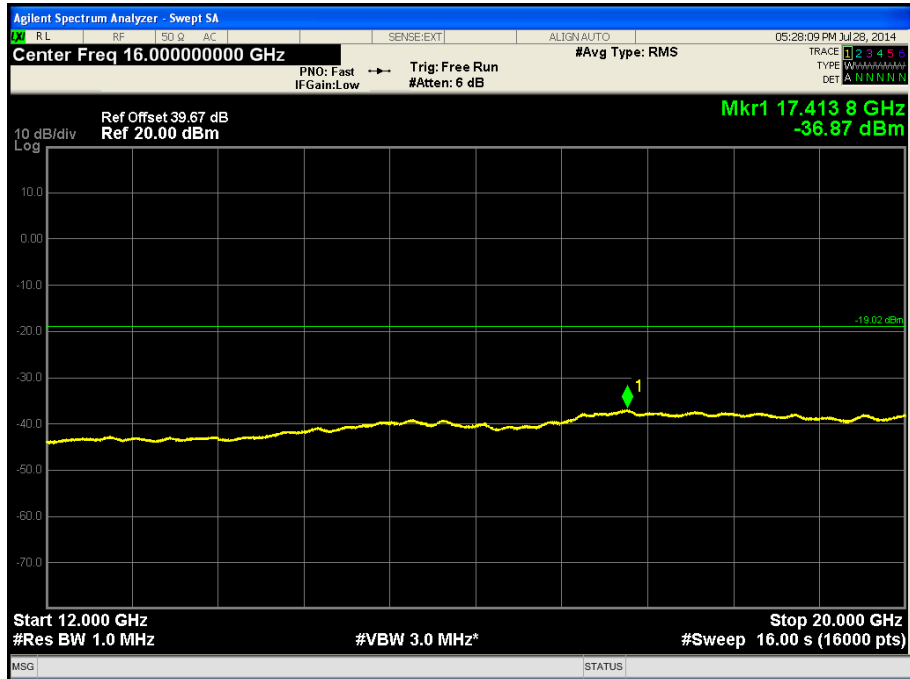
Channel Position M - Carrier Bandwidth 20.0 MHz - Band 1 - Range 0.009 to 3500 MHz – Antenna Port B



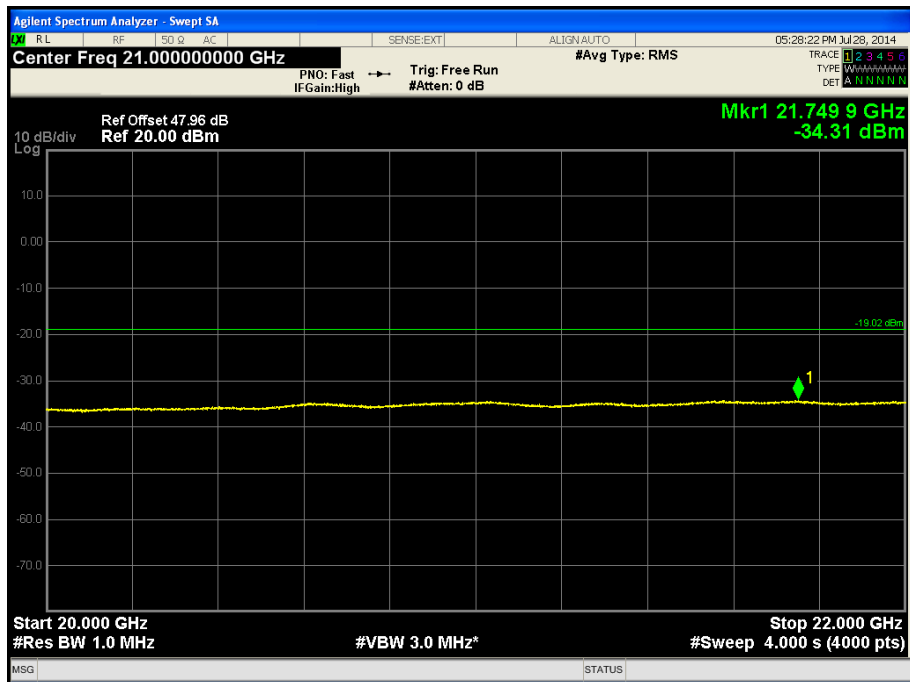
Channel Position M - Carrier Bandwidth 20.0 MHz - Band 2 - Range 3500 to 12000 MHz – Antenna Port B



Channel Position M - Carrier Bandwidth 20.0 MHz - Band 3 - Range 12000 to 20000 MHz – Antenna Port B



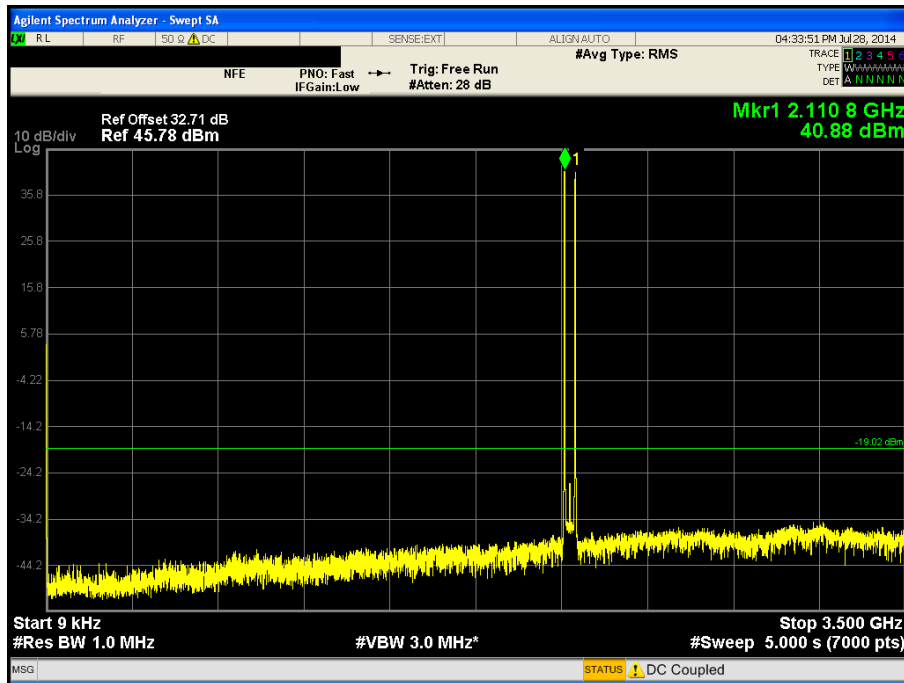
Channel Position M - Carrier Bandwidth 20.0 MHz - Band 4 - Range 20000 to 22000 MHz – Antenna Port B



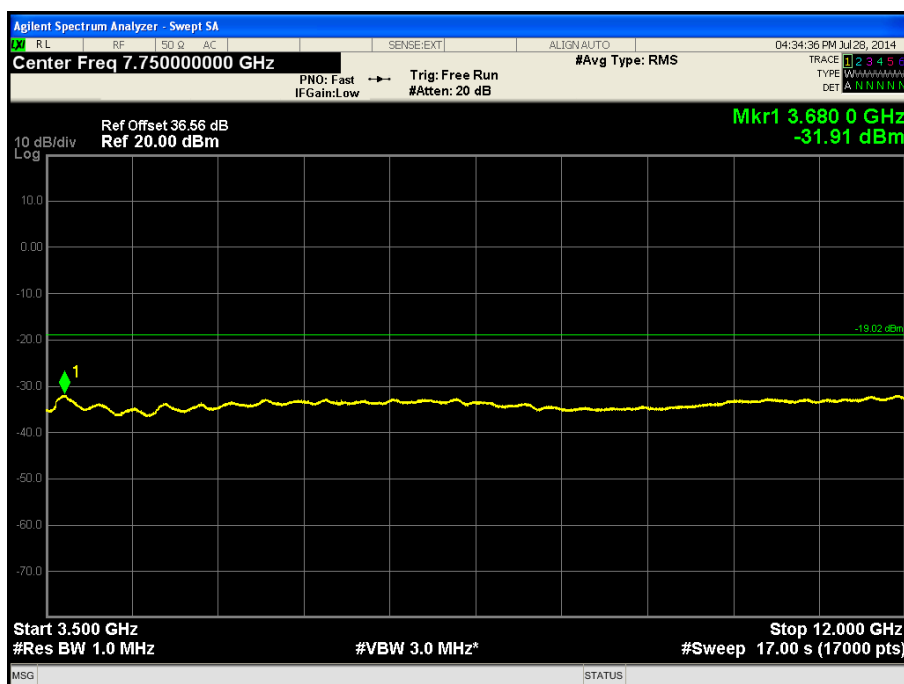
Configuration LTE-MC1 (See Table 1 for carrier frequency)

Maximum Output Power 41.76 dBm per carrier, Test Model 1.1 - Antenna Port C

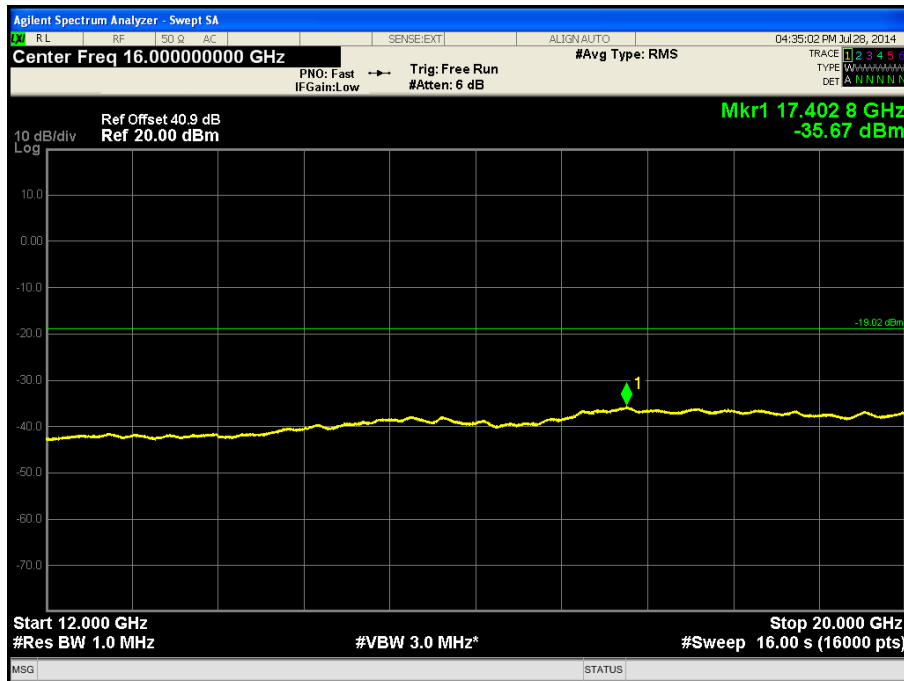
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 1 - Range 0.009 to 3500 MHz – Antenna Port C



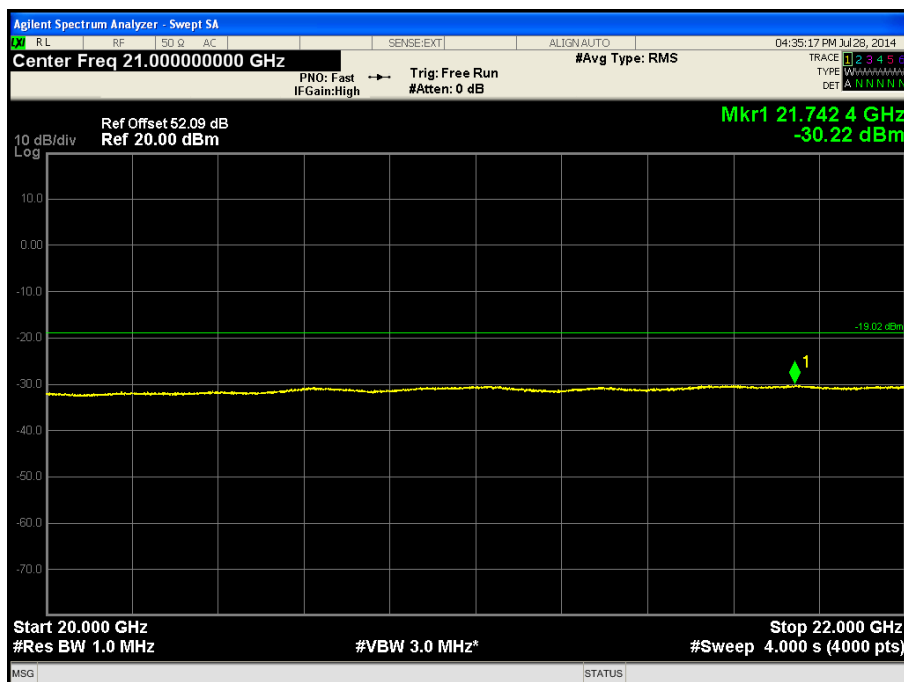
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 2 - Range 3500 to 12000 MHz – Antenna Port C



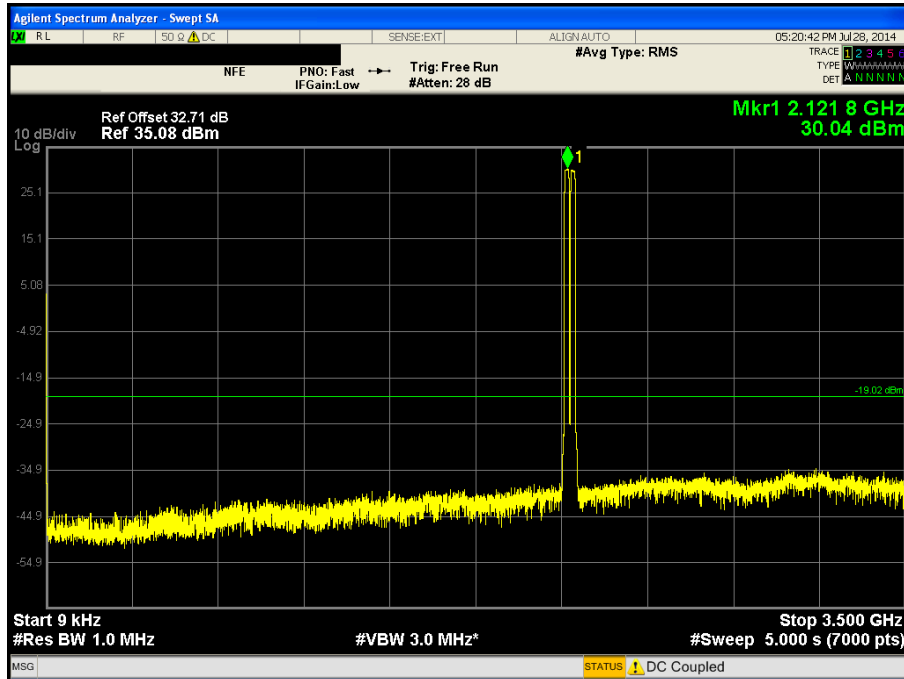
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 3 - Range 12000 to 20000 MHz –
Antenna Port C



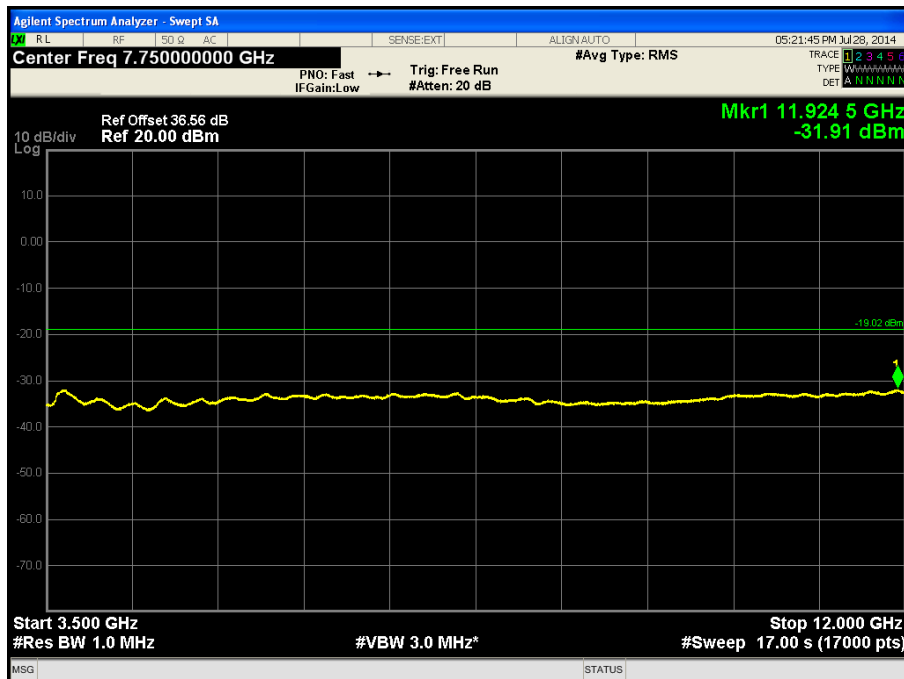
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 4 - Range 20000 to 22000 MHz –
Antenna Port C



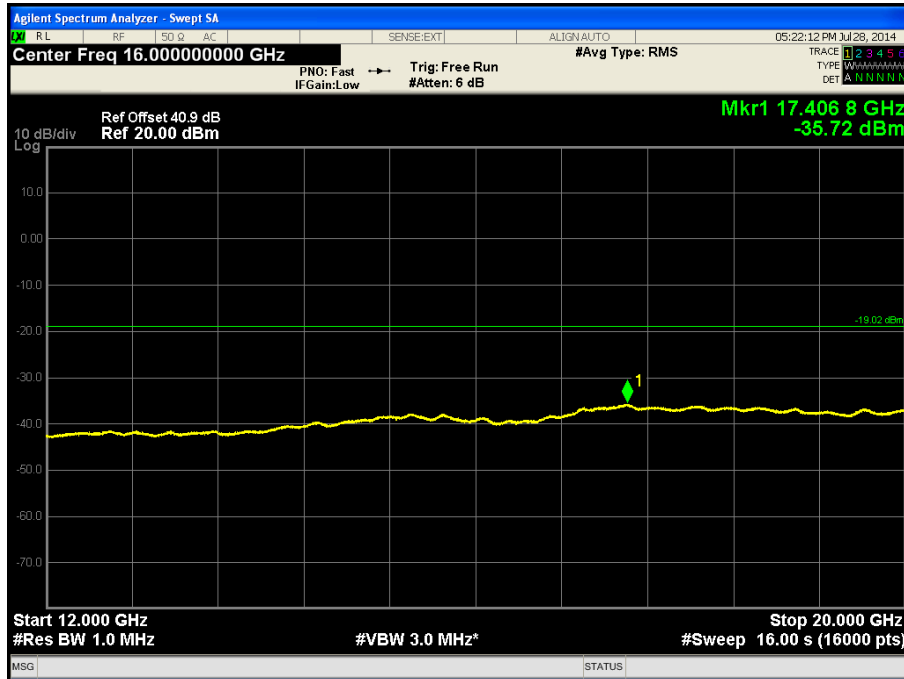
Channel Position M - Carrier Bandwidth 20.0 MHz - Band 1 - Range 0.009 to 3500 MHz – Antenna Port C



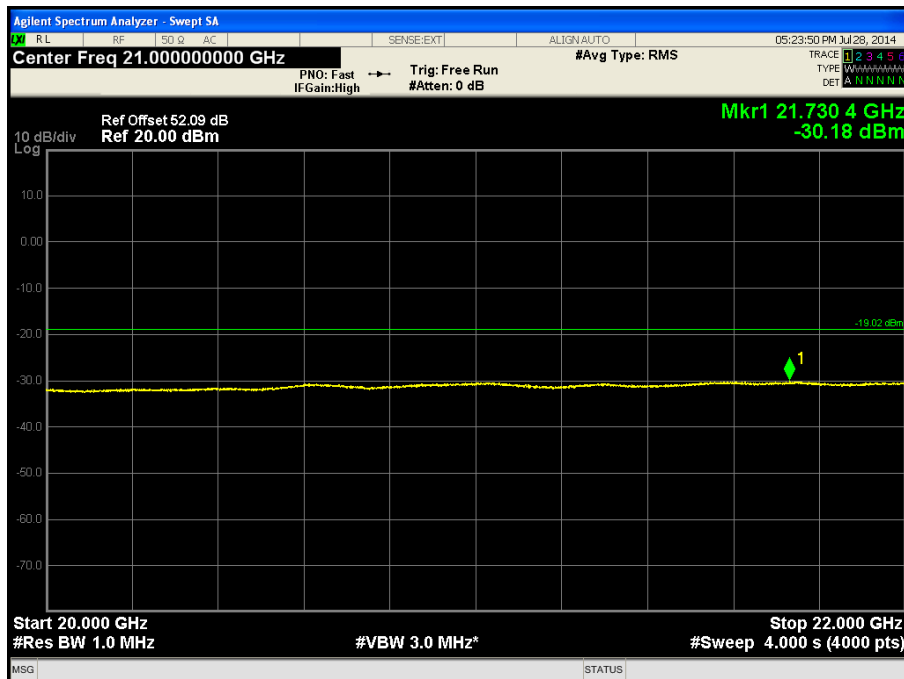
Channel Position M - Carrier Bandwidth 20.0 MHz - Band 2 - Range 3500 to 12000 MHz – Antenna Port C



Channel Position M - Carrier Bandwidth 20.0 MHz - Band 3 - Range 12000 to 20000 MHz – Antenna Port C



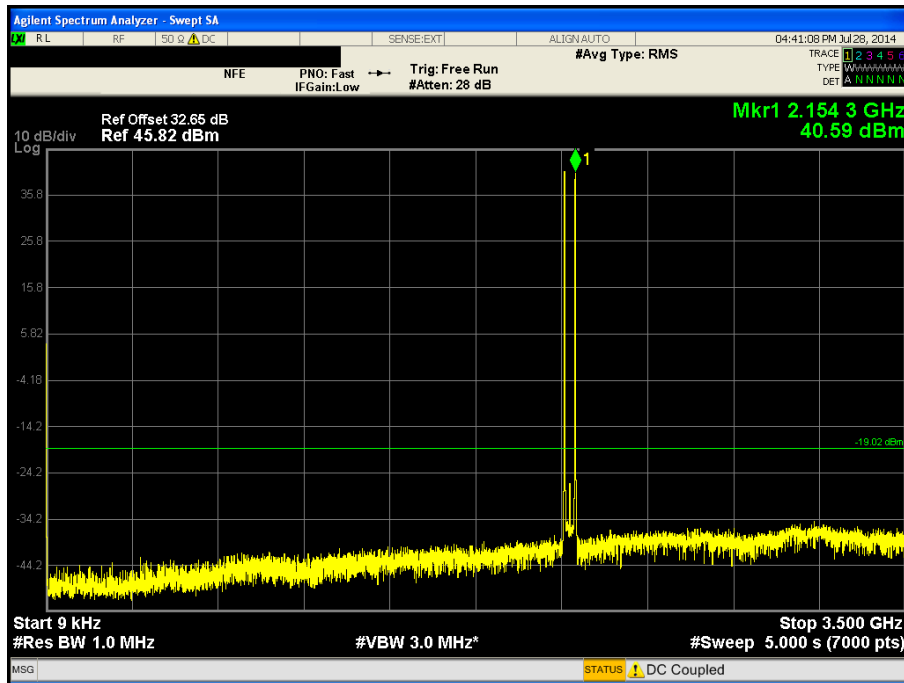
Channel Position M - Carrier Bandwidth 20.0 MHz - Band 4 - Range 20000 to 22000 MHz – Antenna Port C



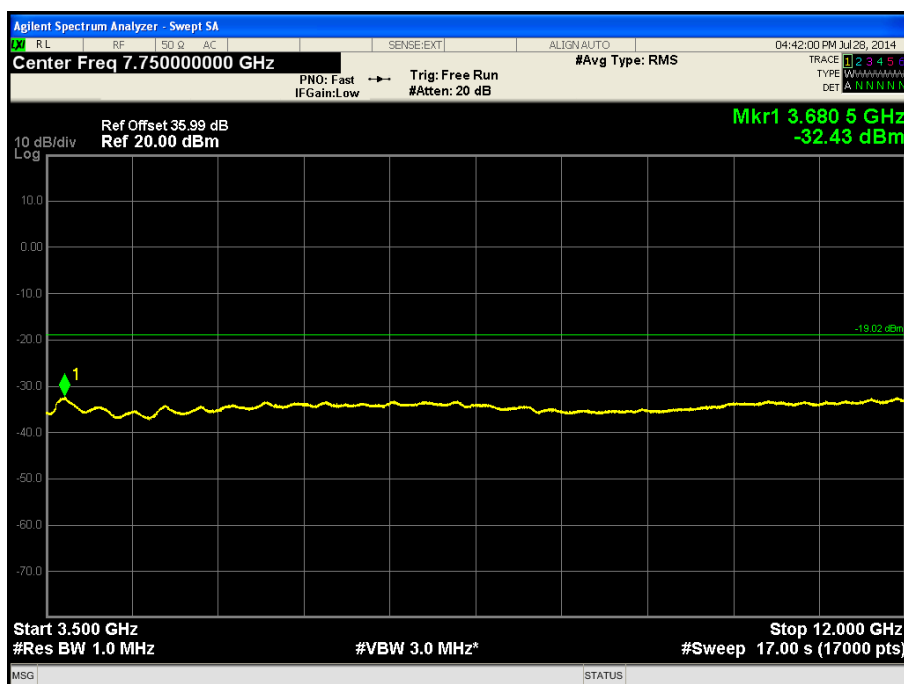
Configuration LTE-MC1 (See Table 1 for carrier frequency)

Maximum Output Power 41.76 dBm per carrier, Test Model 1.1 - Antenna Port D

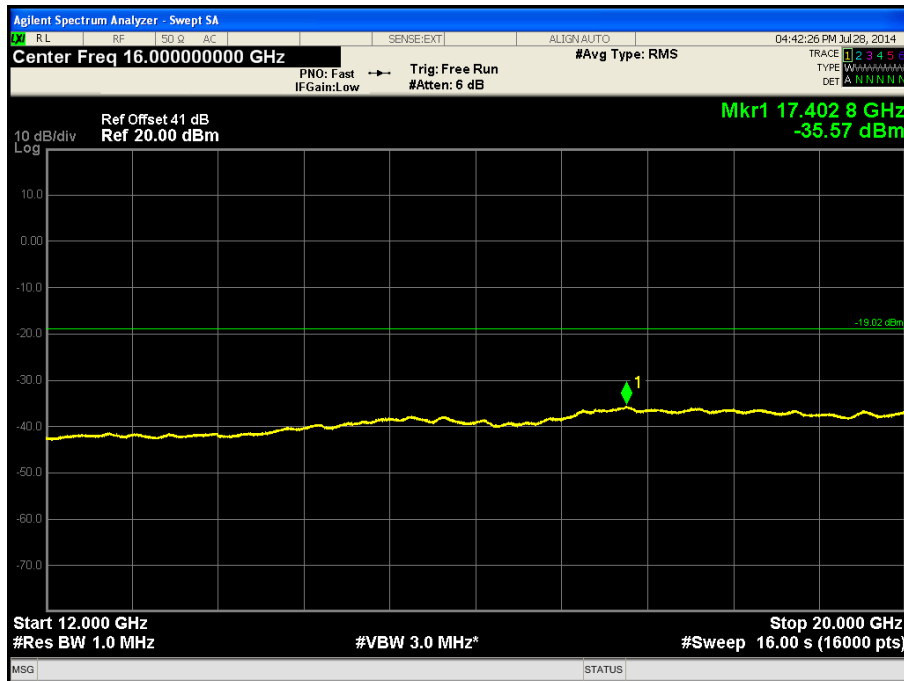
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 1 - Range 0.009 to 3500 MHz – Antenna Port D



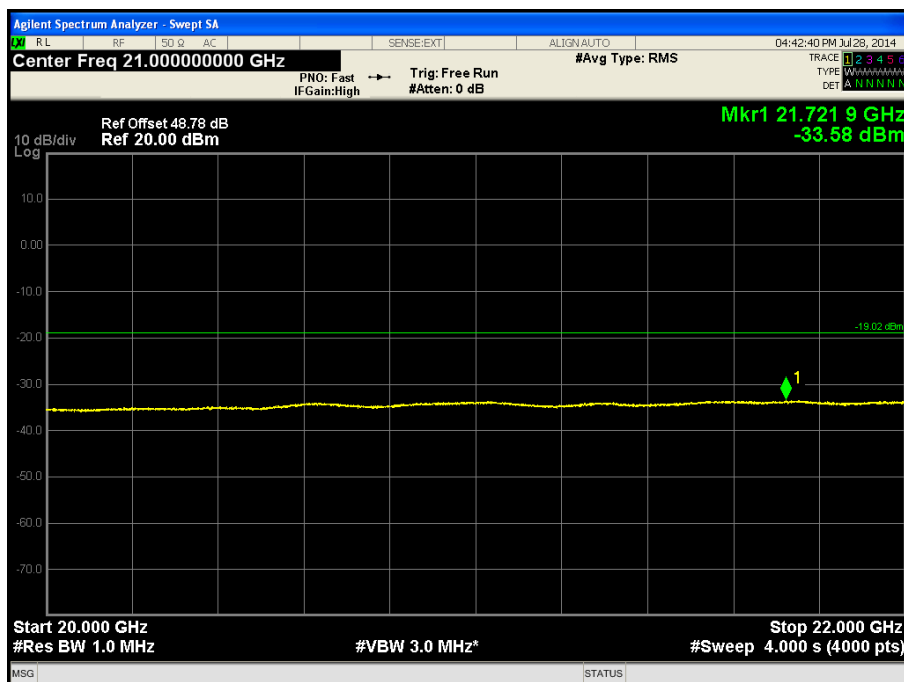
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 2 - Range 3500 to 12000 MHz – Antenna Port D



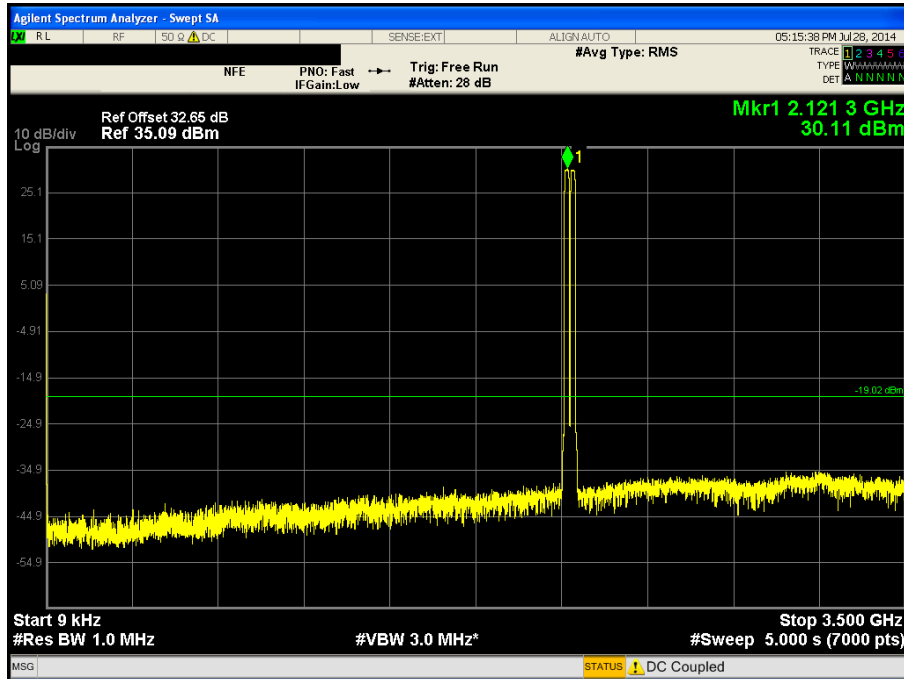
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 3 - Range 12000 to 20000 MHz –
Antenna Port D



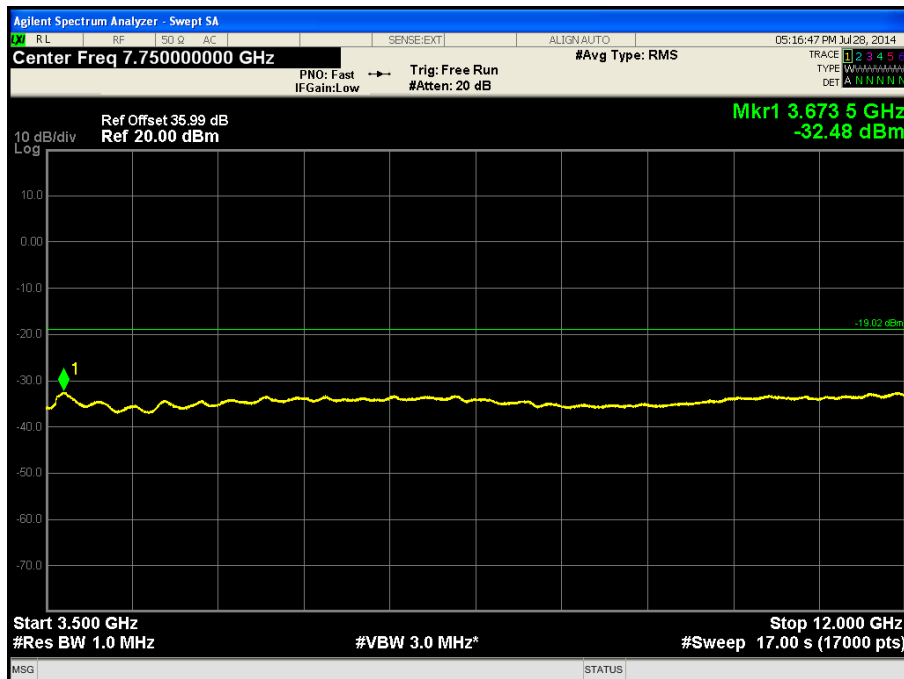
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 4 - Range 20000 to 22000 MHz –
Antenna Port D



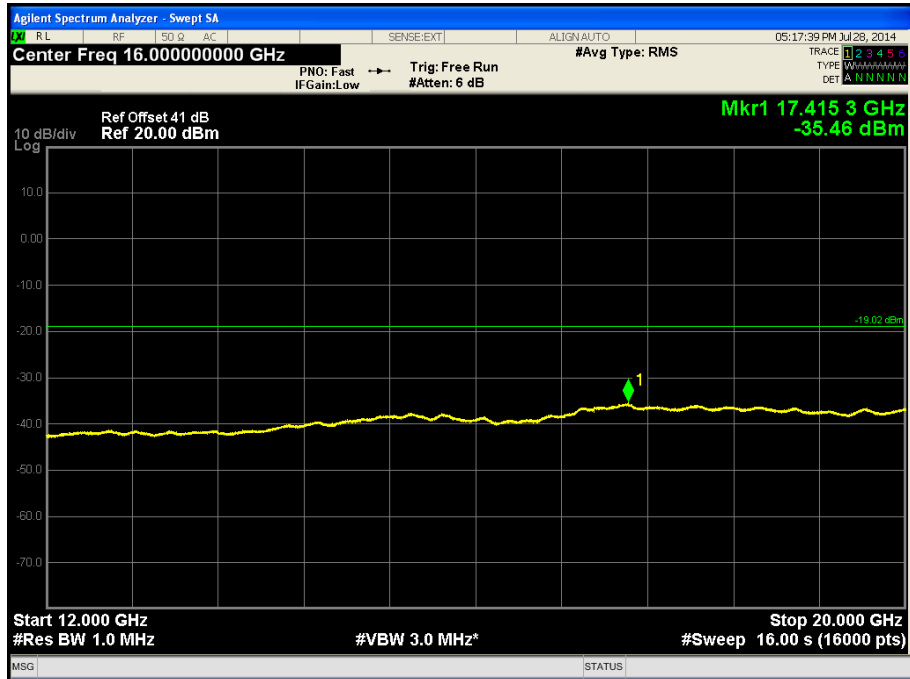
Channel Position M - Carrier Bandwidth 20.0 MHz - Band 1 - Range 0.009 to 3500 MHz – Antenna Port D



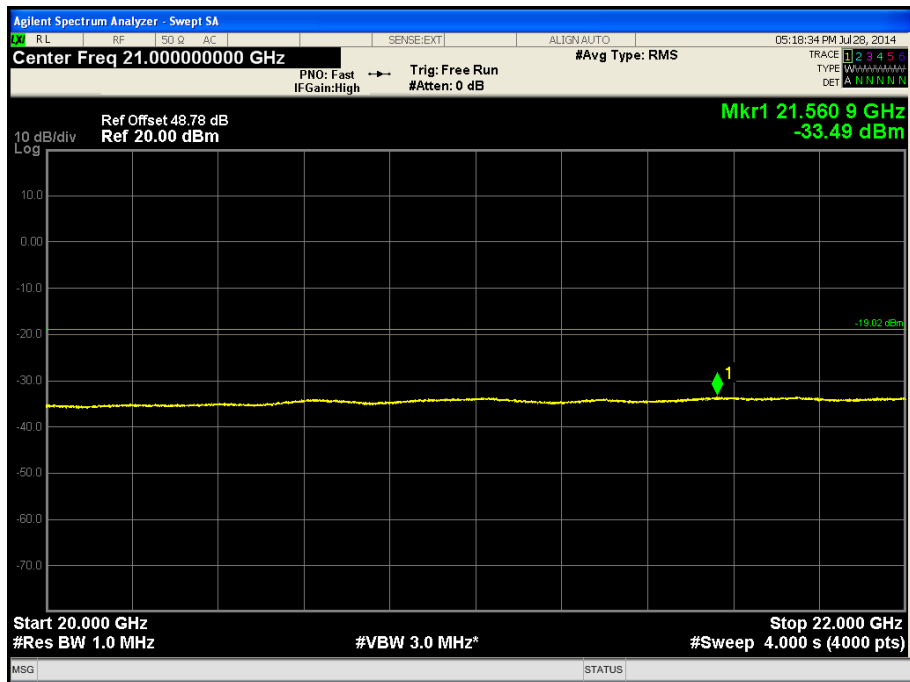
Channel Position M - Carrier Bandwidth 20.0 MHz - Band 2 - Range 3500 to 12000 MHz – Antenna Port D



Channel Position M - Carrier Bandwidth 20.0 MHz - Band 3 - Range 12000 to 20000 MHz – Antenna Port D



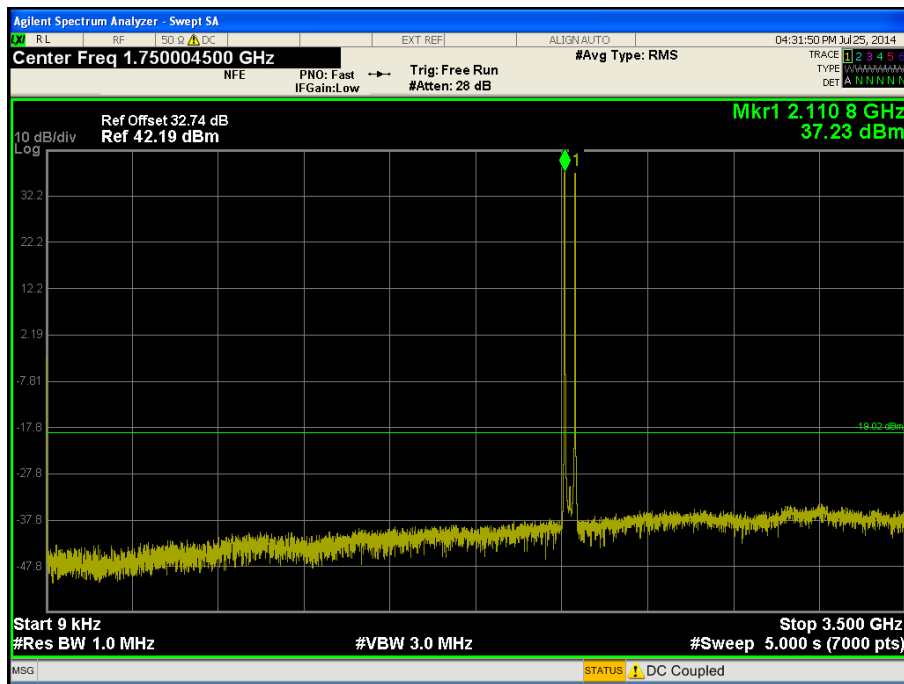
Channel Position M - Carrier Bandwidth 20.0 MHz - Band 4 - Range 20000 to 22000 MHz – Antenna Port D



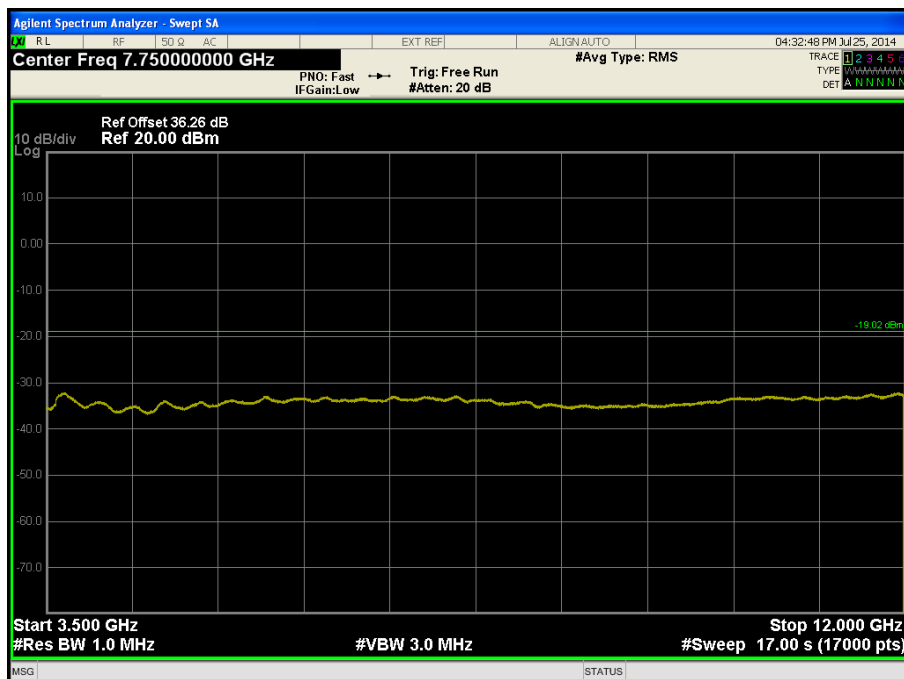
Configuration LTE-MC2 (See Table 1 for carrier frequency)

Maximum Output Power 37.75 dBm per carrier, Test Model 1.1 - Antenna Port A

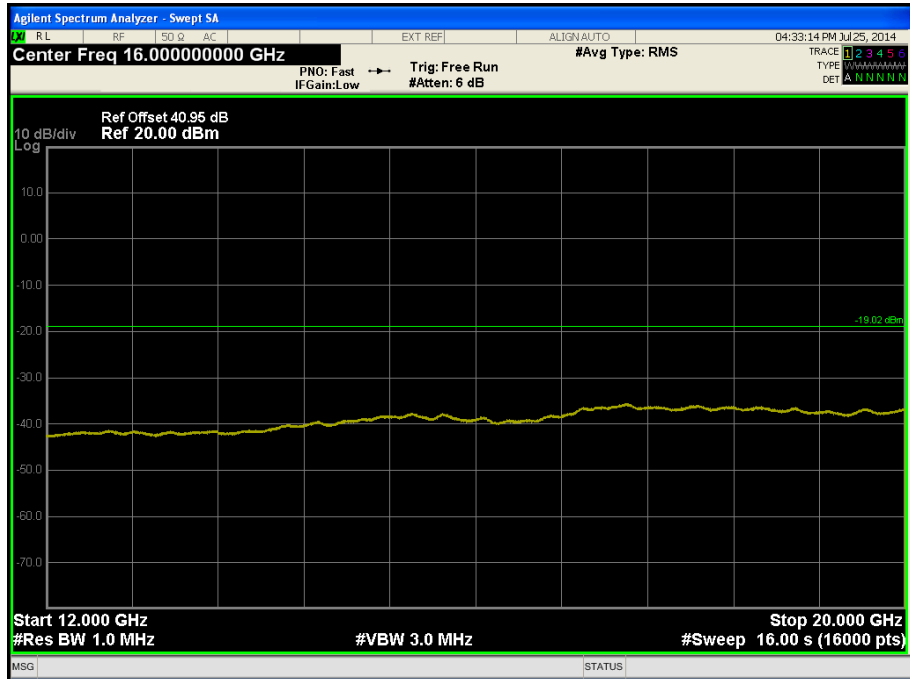
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 1 - Range 0.009 to 3500 MHz – Antenna Port A



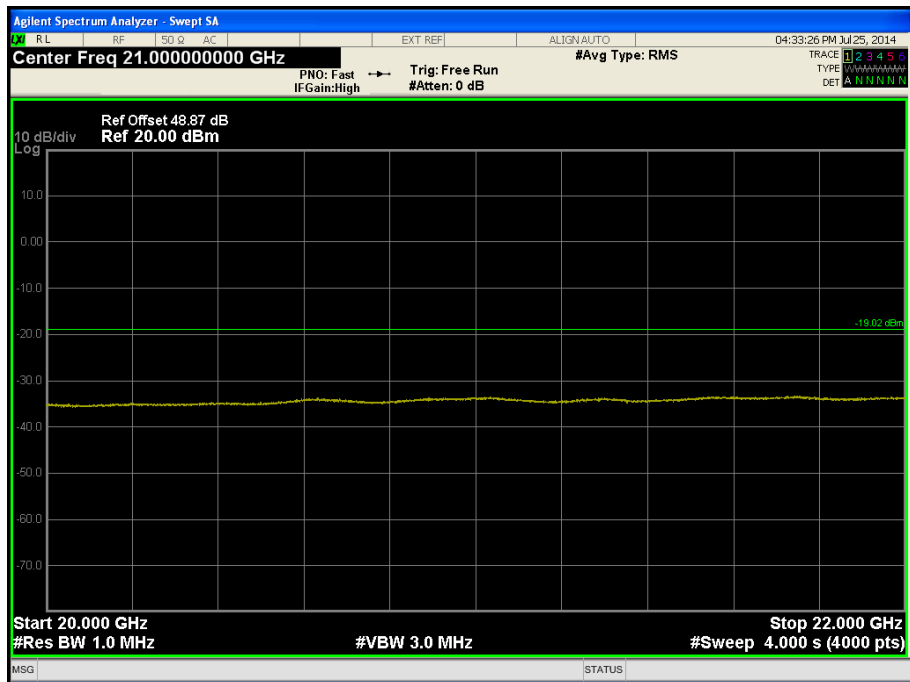
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 2 - Range 3500 to 12000 MHz – Antenna Port A



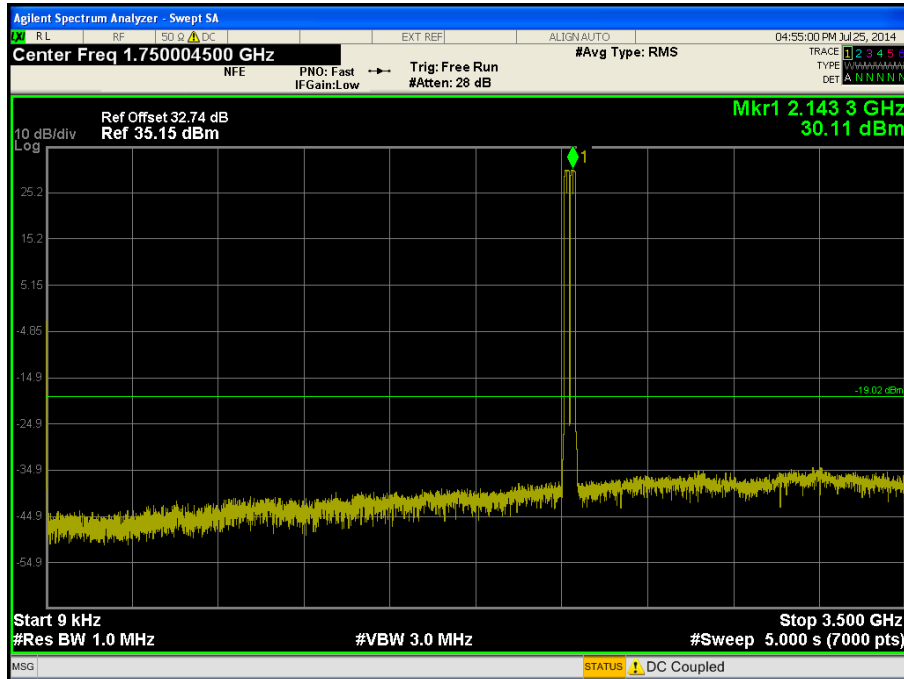
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 3 - Range 12000 to 20000 MHz – Antenna Port A



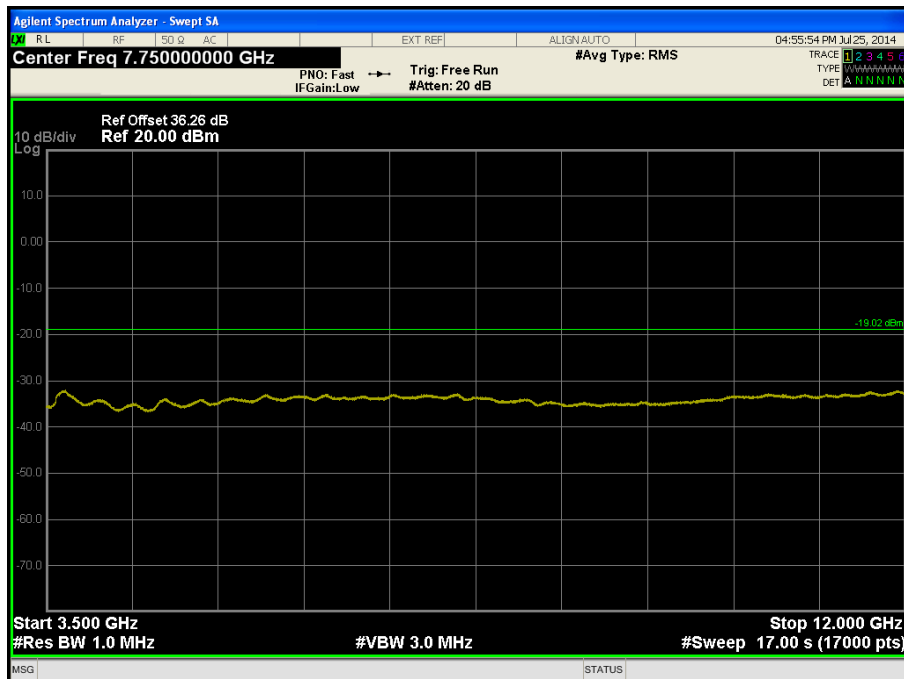
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 4 - Range 20000 to 22000 MHz – Antenna Port A



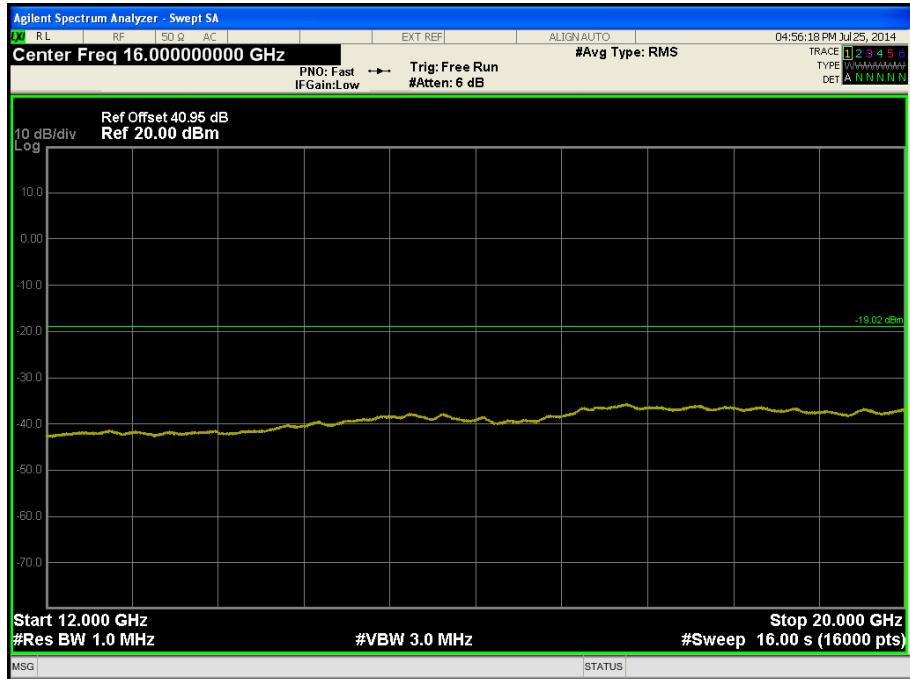
Channel Position M - Carrier Bandwidth 10.0 MHz - Band 1 - Range 0.009 to 3500 MHz – Antenna Port A



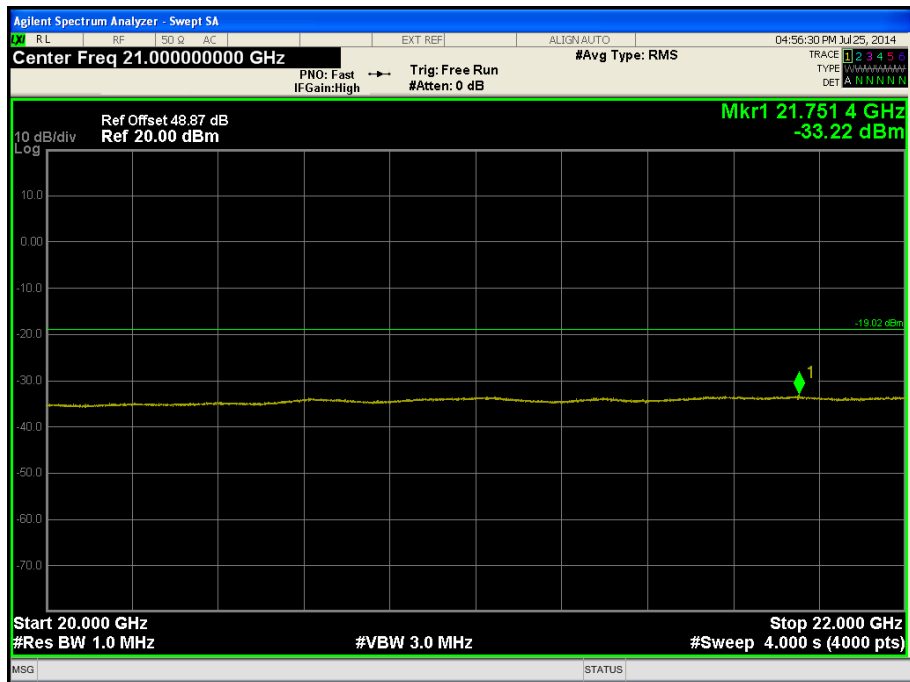
Channel Position M - Carrier Bandwidth 10.0 MHz - Band 2 - Range 3500 to 12000 MHz – Antenna Port A



Channel Position M - Carrier Bandwidth 10.0 MHz - Band 3 - Range 12000 to 20000 MHz – Antenna Port A



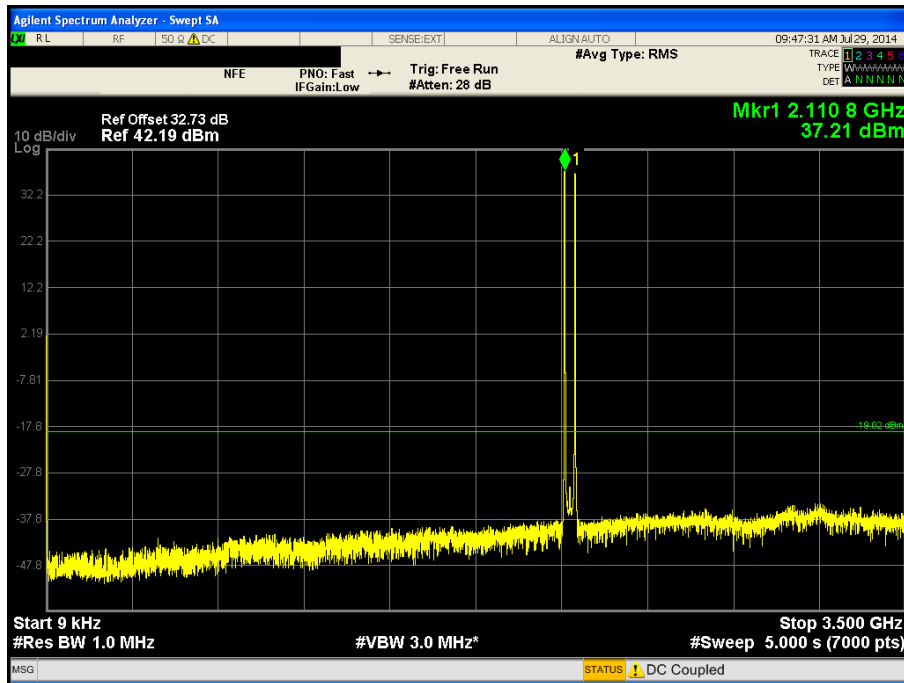
Channel Position M - Carrier Bandwidth 10.0 MHz - Band 4 - Range 20000 to 22000 MHz – Antenna Port A



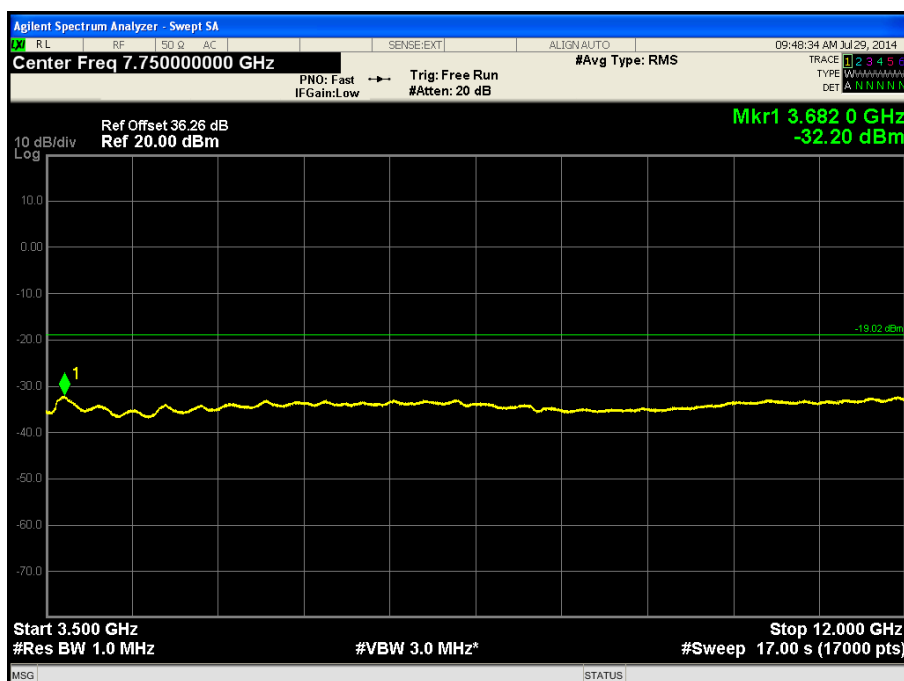
Configuration LTE-MC2 (See Table 1 for carrier frequency)

Maximum Output Power 38.75 dBm per carrier, Test Model 1.1 - Antenna Port B

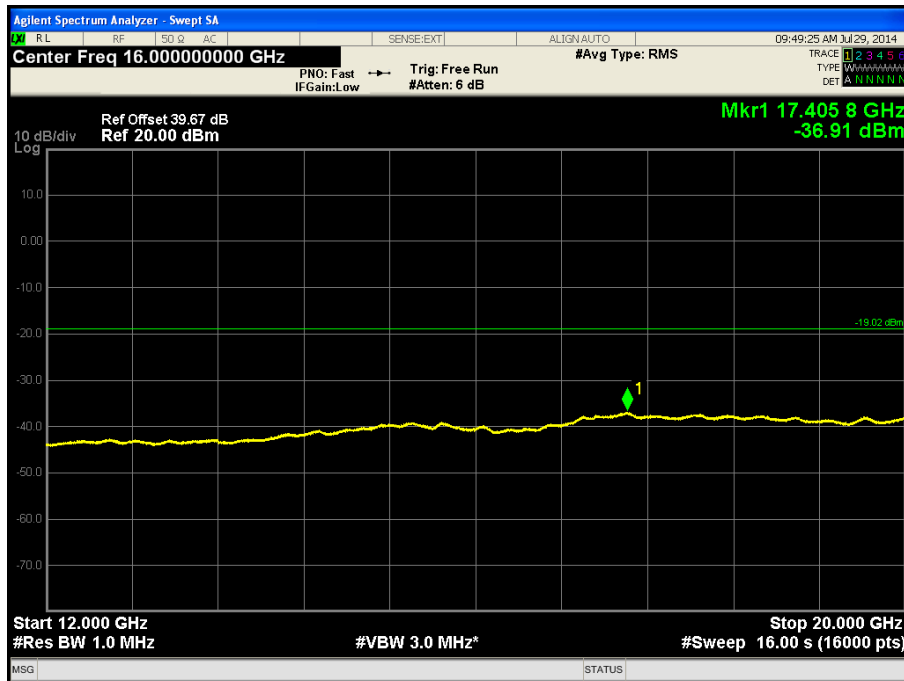
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 1 - Range 0.009 to 3500 MHz – Antenna Port B



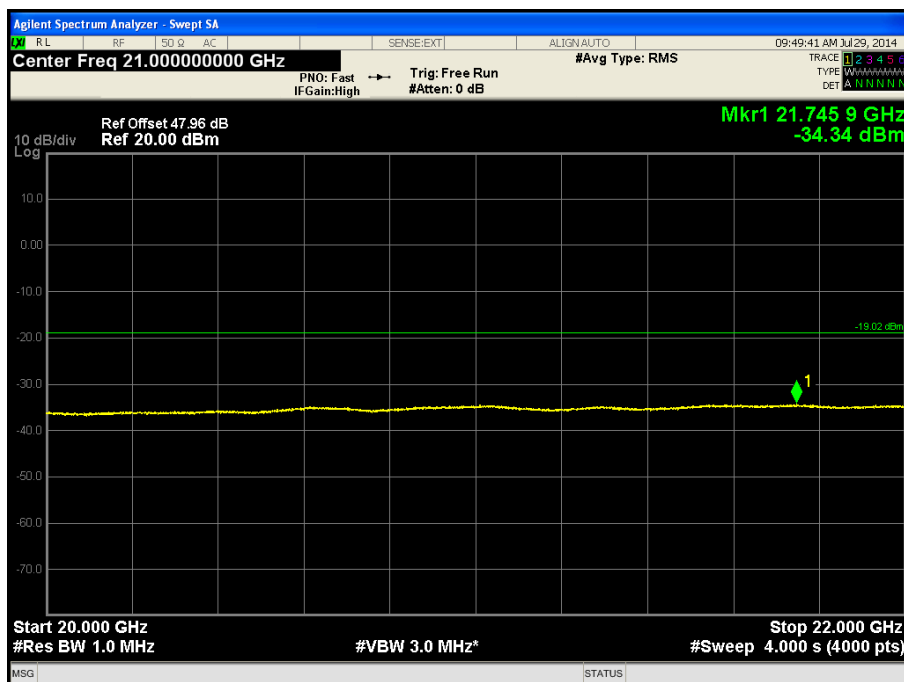
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 2 - Range 3500 to 12000 MHz – Antenna Port B



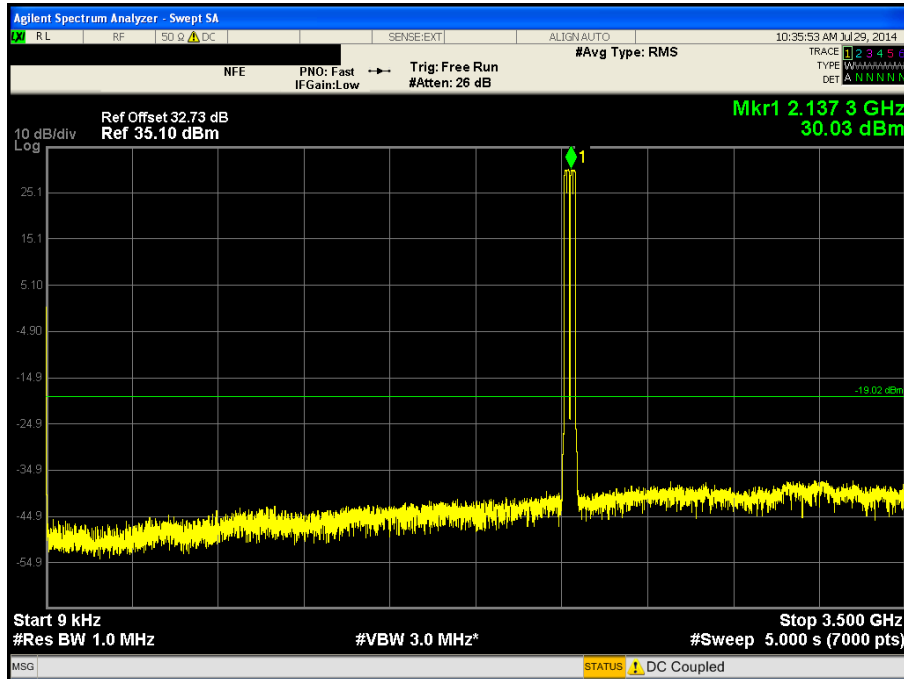
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 3 - Range 12000 to 20000 MHz –
Antenna Port B



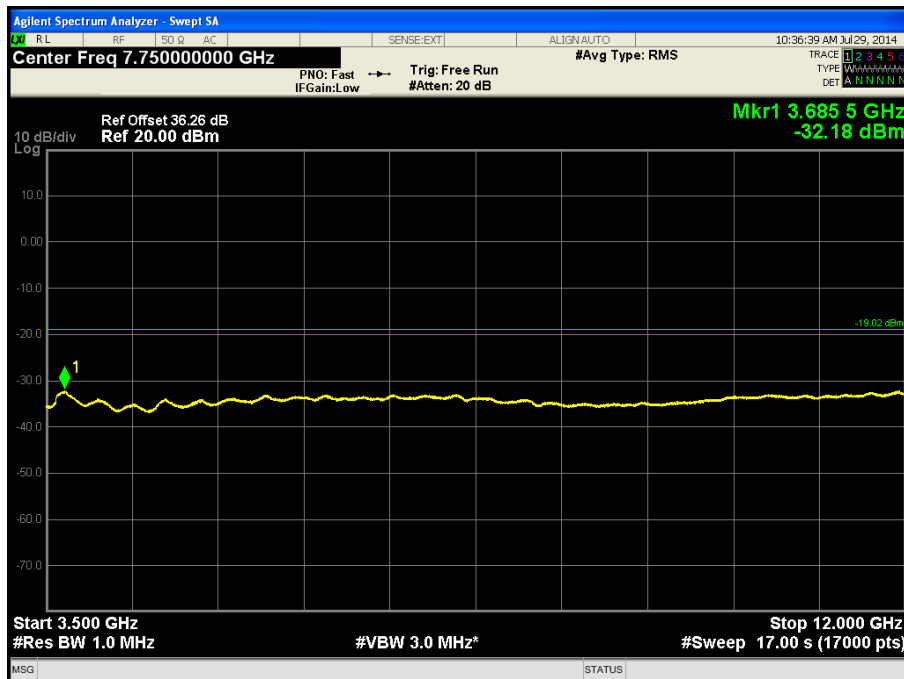
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 4 - Range 20000 to 22000 MHz –
Antenna Port B



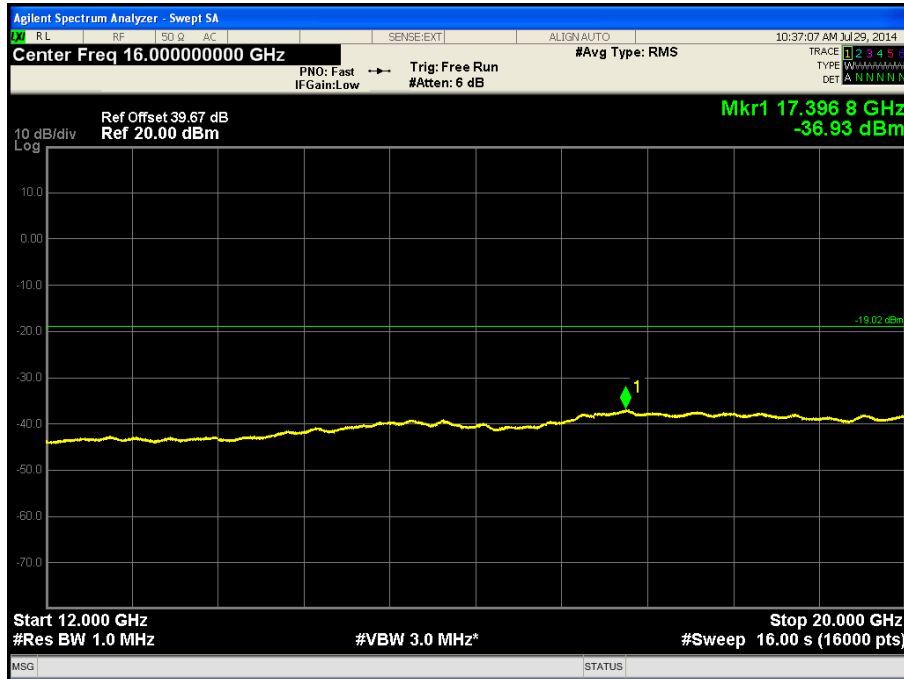
Channel Position M - Carrier Bandwidth 10.0 MHz - Band 1 - Range 0.009 to 3500 MHz – Antenna Port B



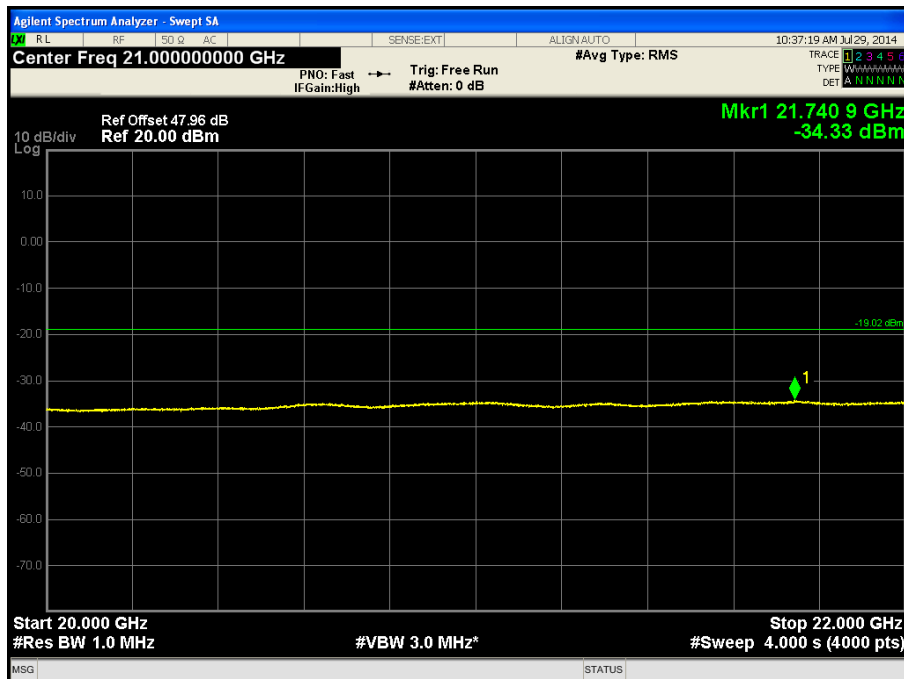
Channel Position M - Carrier Bandwidth 10.0 MHz - Band 2 - Range 3500 to 12000 MHz – Antenna Port B



Channel Position M - Carrier Bandwidth 10.0 MHz - Band 3 - Range 12000 to 20000 MHz – Antenna Port B



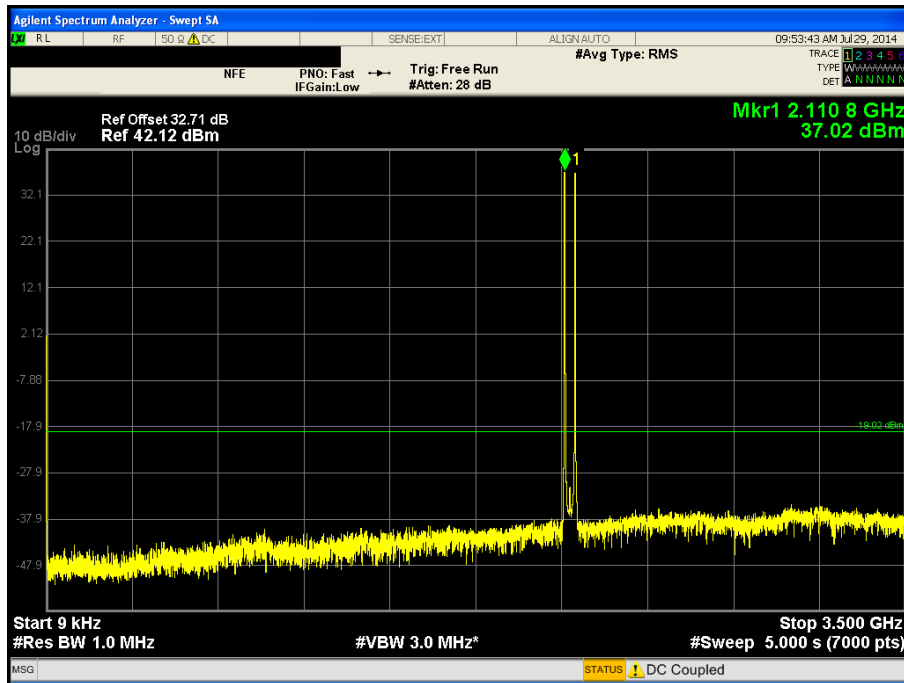
Channel Position M - Carrier Bandwidth 10.0 MHz - Band 4 - Range 20000 to 22000 MHz – Antenna Port B



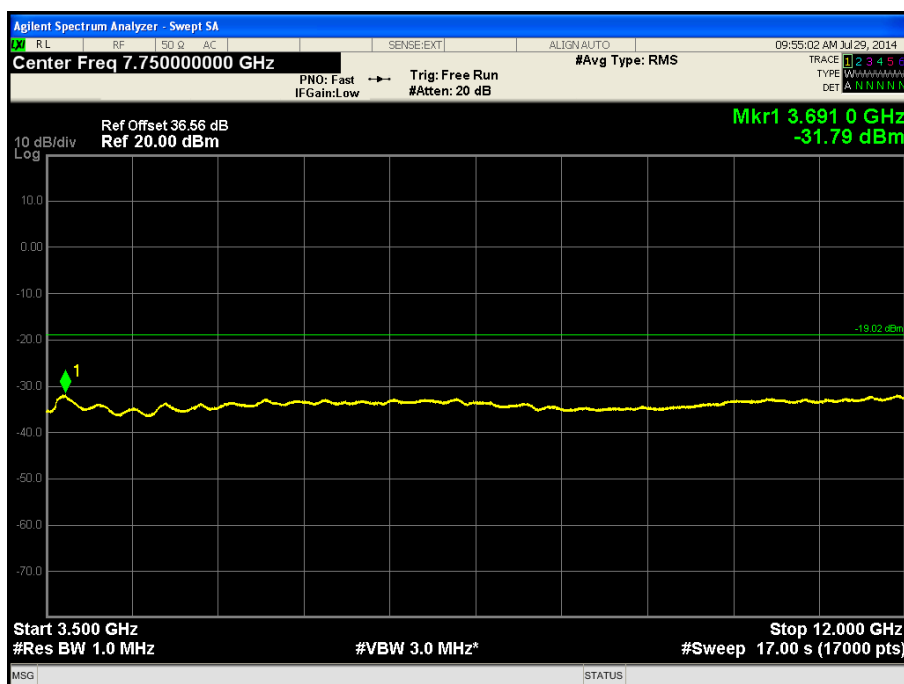
Configuration LTE-MC2 (See Table 1 for carrier frequency)

Maximum Output Power 38.75 dBm per carrier, Test Model 1.1 - Antenna Port C

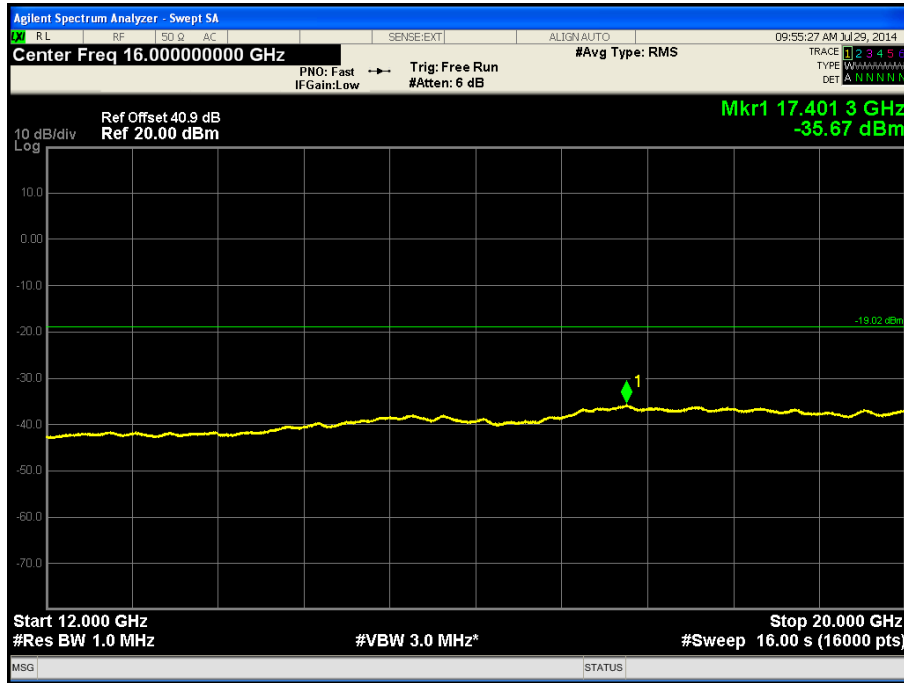
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 1 - Range 0.009 to 3500 MHz – Antenna Port C



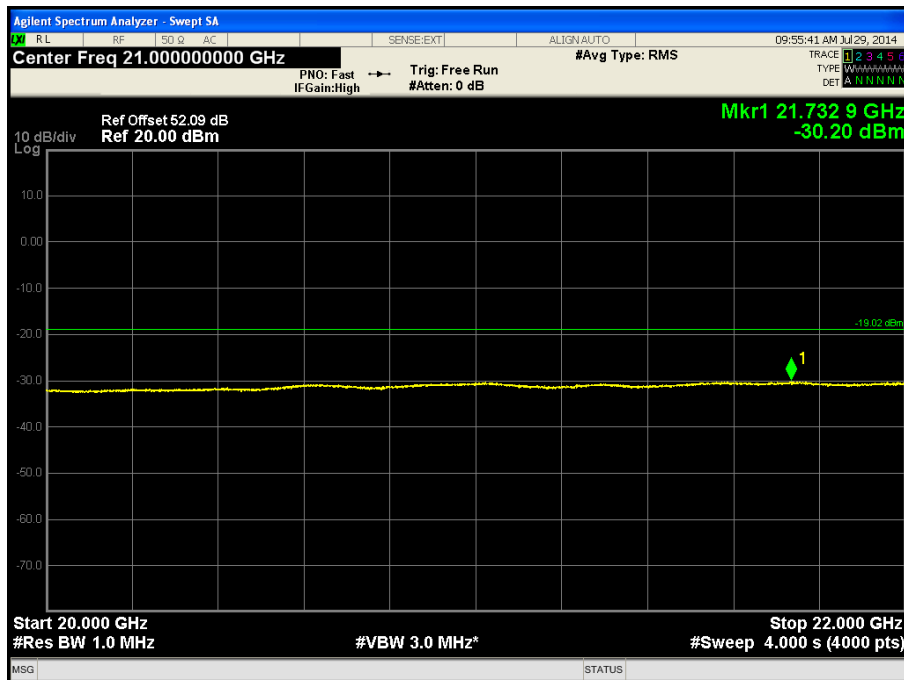
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 2 - Range 3500 to 12000 MHz – Antenna Port C



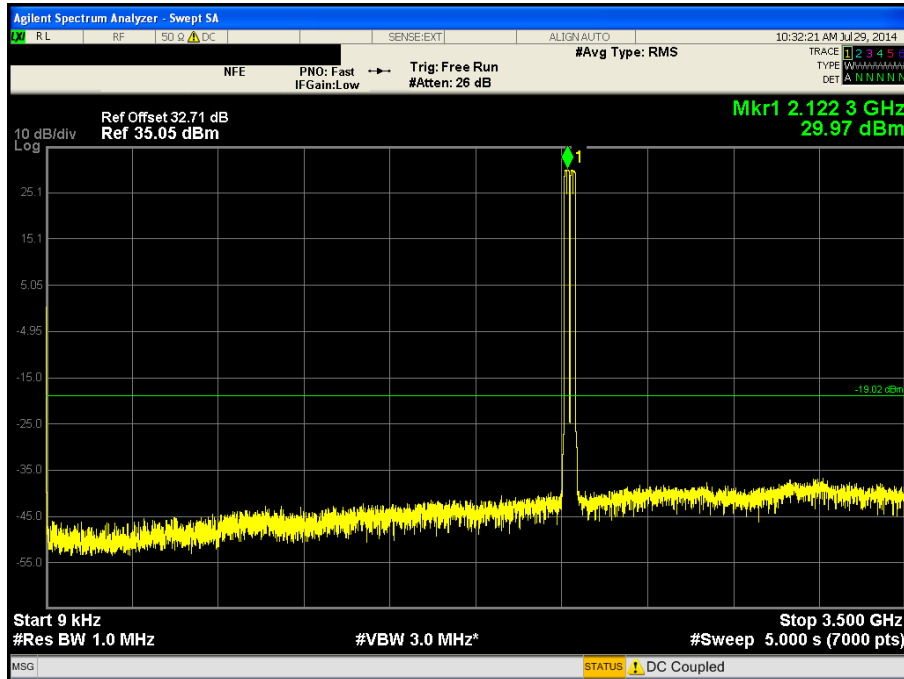
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 3 - Range 12000 to 20000 MHz – Antenna Port C



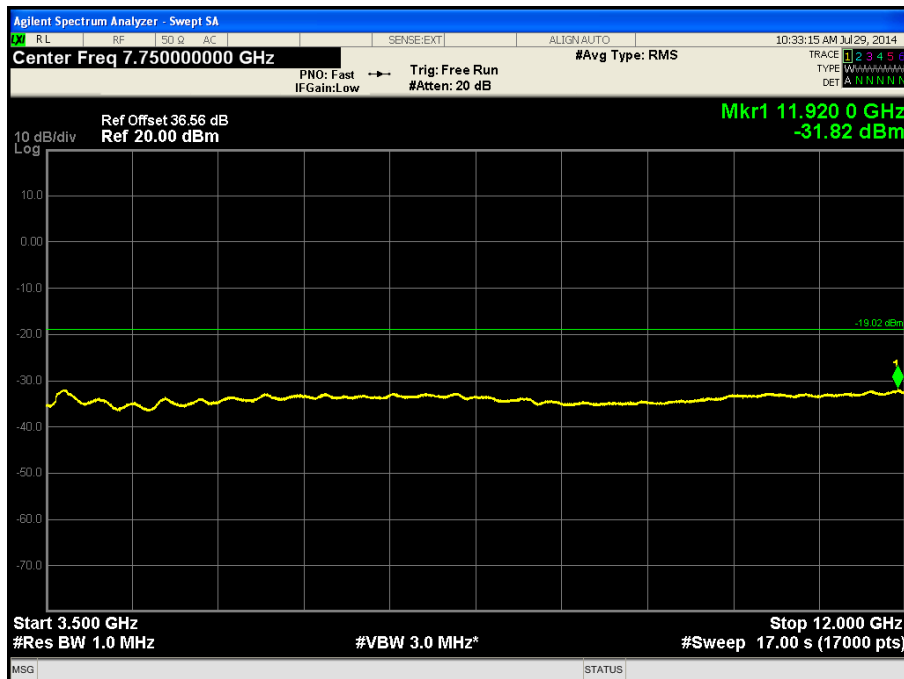
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 4 - Range 20000 to 22000 MHz – Antenna Port C



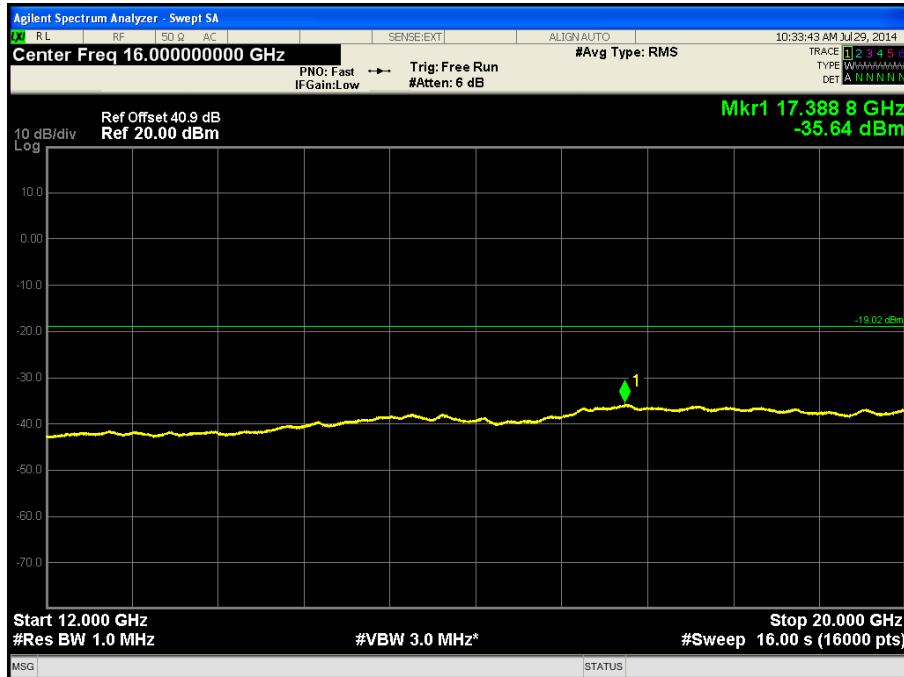
Channel Position M - Carrier Bandwidth 10.0 MHz - Band 1 - Range 0.009 to 3500 MHz – Antenna Port C



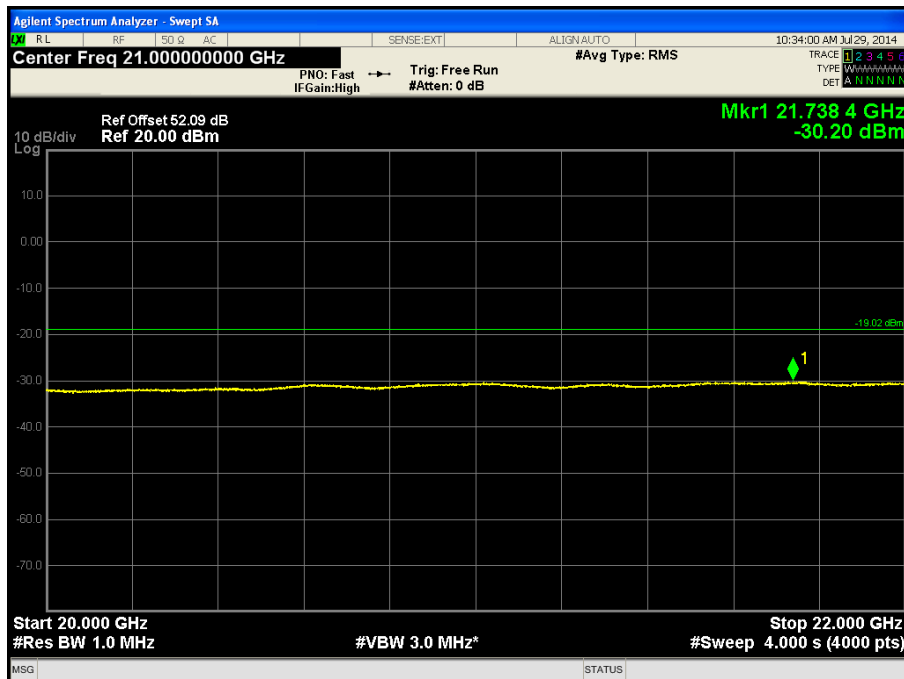
Channel Position M - Carrier Bandwidth 10.0 MHz - Band 2 - Range 3500 to 12000 MHz – Antenna Port C



Channel Position M - Carrier Bandwidth 10.0 MHz - Band 3 - Range 12000 to 20000 MHz – Antenna Port C



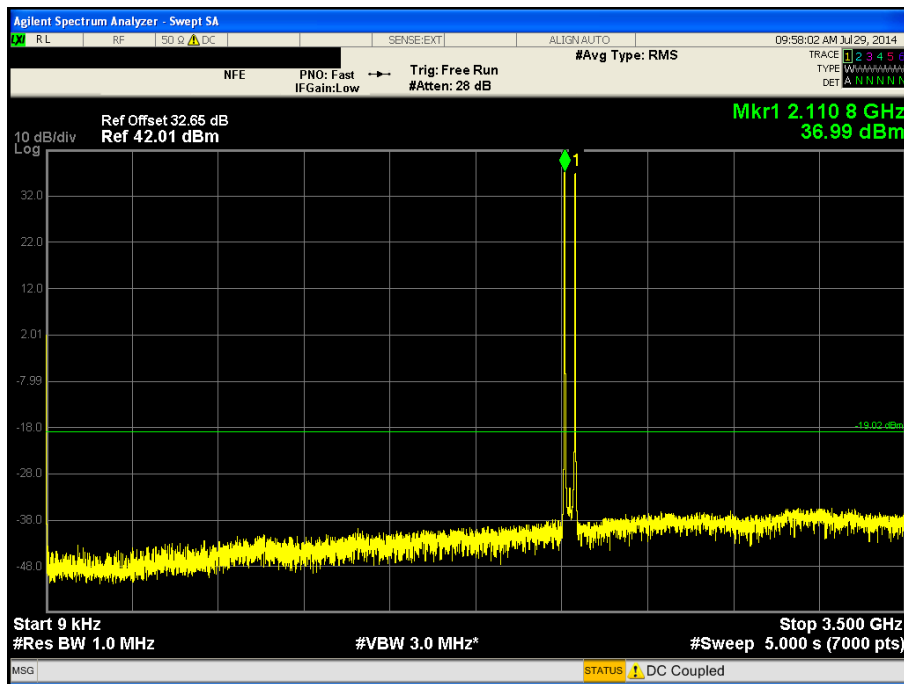
Channel Position M - Carrier Bandwidth 10.0 MHz - Band 4 - Range 20000 to 22000 MHz – Antenna Port C



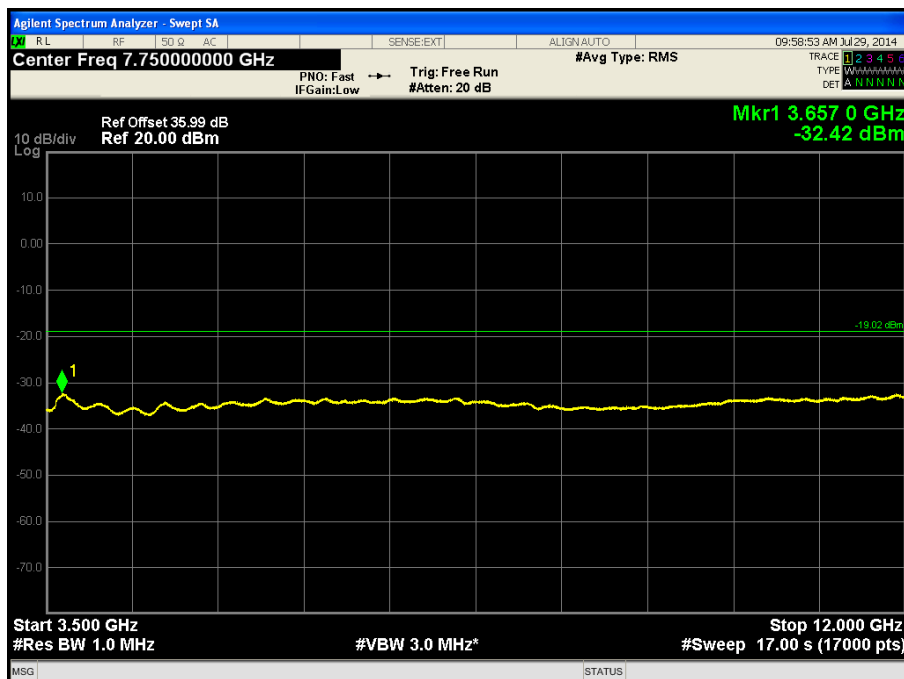
Configuration LTE-MC2 (See Table 1 for carrier frequency)

Maximum Output Power 38.75 dBm per carrier, Test Model 1.1 - Antenna Port D

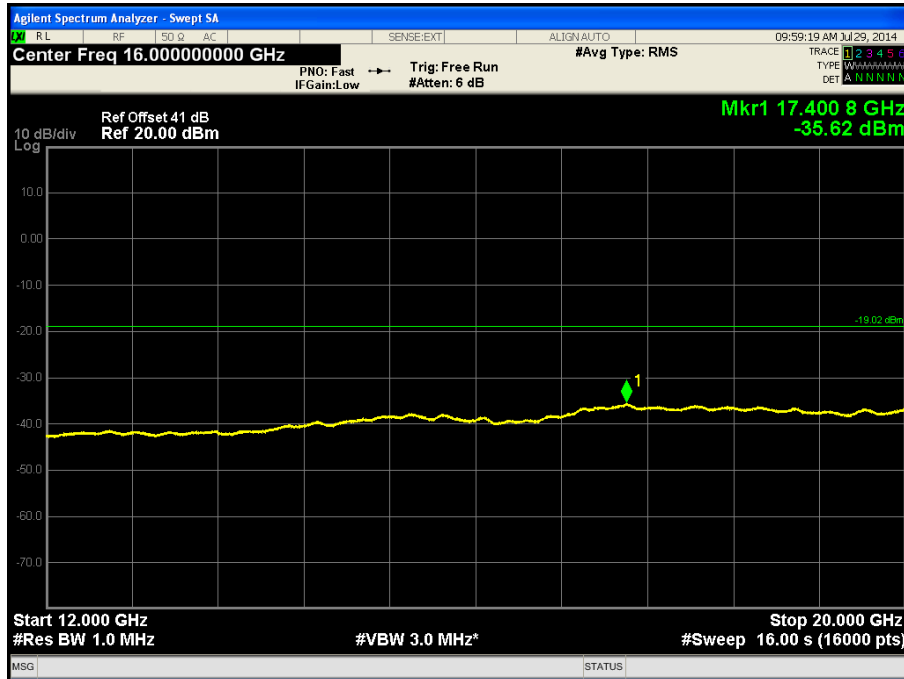
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 1 - Range 0.009 to 3500 MHz – Antenna Port D



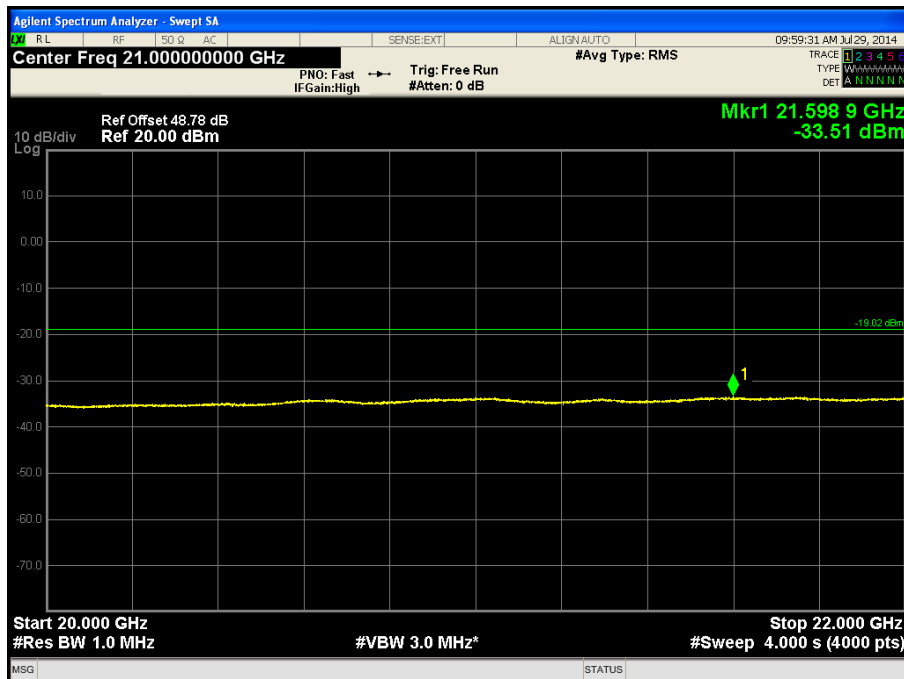
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 2 - Range 3500 to 12000 MHz – Antenna Port D



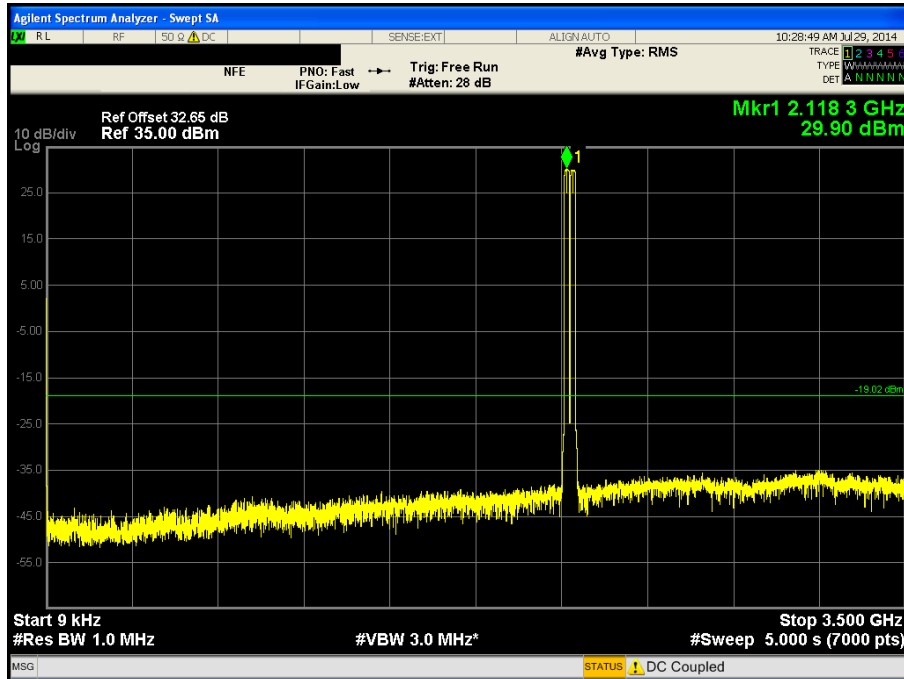
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 3 - Range 12000 to 20000 MHz – Antenna Port D



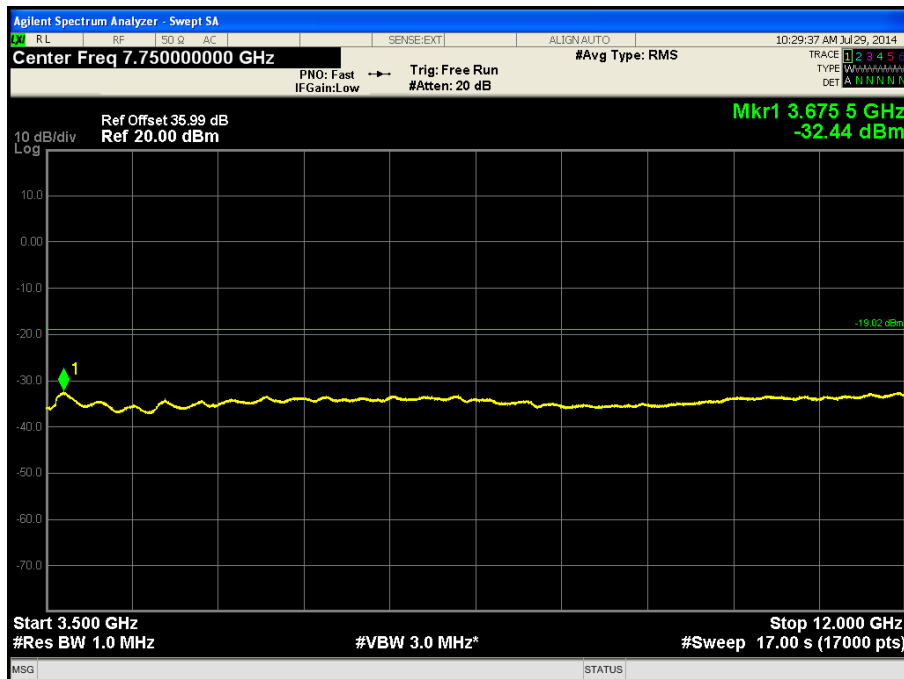
Channel Position M - Carrier Bandwidth 1.4 MHz - Band 4 - Range 20000 to 22000 MHz – Antenna Port D



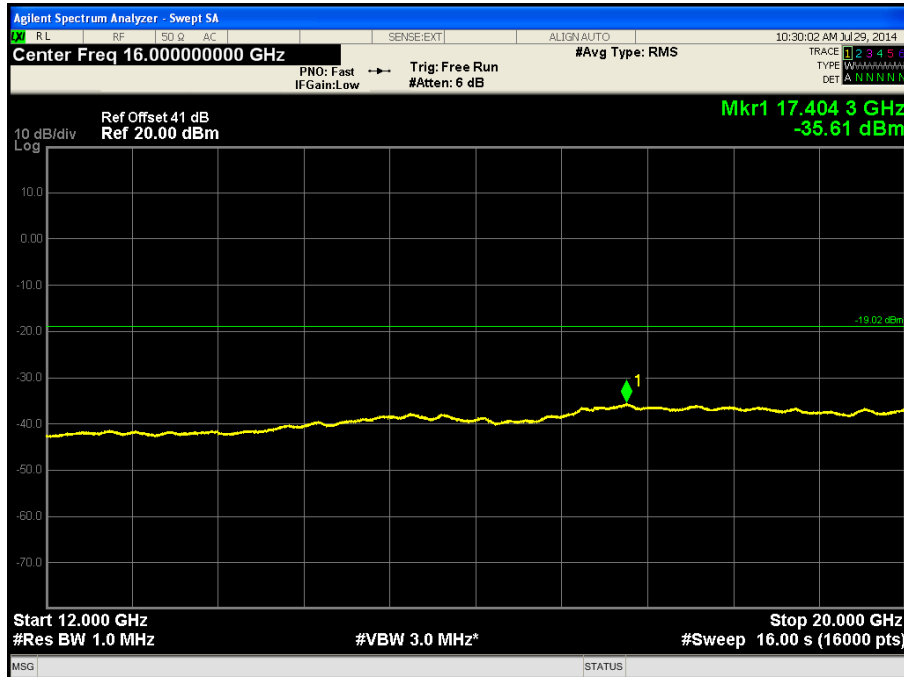
Channel Position M - Carrier Bandwidth 10.0 MHz - Band 1 - Range 0.009 to 3500 MHz – Antenna Port D



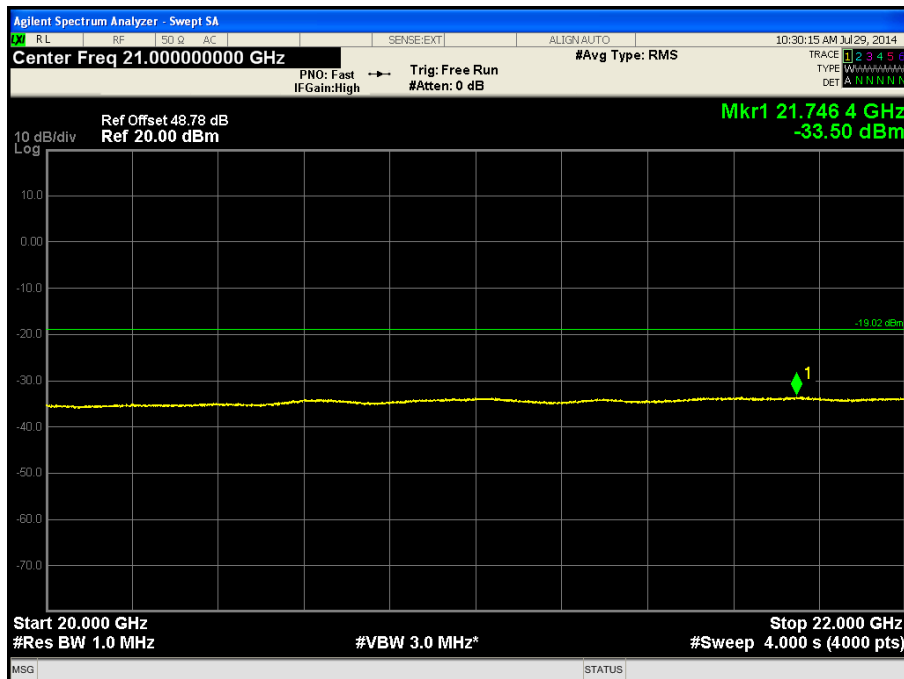
Channel Position M - Carrier Bandwidth 10.0 MHz - Band 2 - Range 3500 to 12000 MHz – Antenna Port D



Channel Position M - Carrier Bandwidth 10.0 MHz - Band 3 - Range 12000 to 20000 MHz – Antenna Port D



Channel Position M - Carrier Bandwidth 10.0 MHz - Band 4 - Range 20000 to 22000 MHz – Antenna Port D



Limit	-19 dBm (-13 dBm - 10log(NANT) where N = 4
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2.5 FREQUENCY STABILITY

2.5.1 Specification Reference

FCC CFR 47 Part 2, Clause 2.1055
FCC CFR 47 Part 27, Clause 27.54
Industry Canada RSS-139, Clause 6.3
Industry Canada RSS-GEN, Clause 4.7

2.5.2 Date of Test and Modification State

30 July 2014 - Modification State 0

2.5.3 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.5.4 Environmental Conditions

Ambient Temperature	21.4°C
Relative Humidity	54.2%

2.5.5 Test Method

The EUT was setup in a Climatic Chamber and connected to a Vector Signal Analyser via attenuators. The temperature was varied over the range -30°C to +50°C in 10°C steps. At each temperature interval, the EUT was left to stabilise. After this period of time, the mean Frequency Error was measured and recorded on the Middle channel.

For LTE, testing was performed using a 5 MHz channel bandwidth with QPSK modulation with all Resource Blocks active.

At 20°C, the voltage was varied between 85% and 115% of the nominal declared voltage. At each extreme voltage, the mean Frequency Error was measured and recorded.

2.5.6 Test Results

Configuration LTE (See Table 1 for carrier frequency)

Maximum Output Power 44.77 dBm per carrier, Test Model 1.1

Temperature	Frequency Stability (Hz)
	Channel Position M
-30°C	-2.29
-20°C	4.48
-10°C	3.42
0°C	3.51
+10°C	1.49
+20°C	-3.61
+30°C	-2.15
+40°C	4.00
+50°C	1.57

Configuration LTE (See Table 1 for carrier frequency)

Maximum Output Power 44.77 dBm per carrier, Test Model 1.1

Voltage	Frequency Stability (Hz)
	Channel Position M
-40.8 V	-2.43
-48.0 V	-3.61
-55.2 V	-3.44

Limit	The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.
-------	---

The Band Edge plots were compared with the Frequency Stability results and it was confirmed that the EUT remained within the authorised band of operation under all tested conditions.



Product Service

SECTION 3

TEST EQUIPMENT USED

3.1 TEST EQUIPMENT USED

List of absolute measuring and other principal items of test equipment.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Due
Maximum Peak Output Power and Peak to Average Ratio - Conducted					
Hygrometer	Rotronic	HP21	4410	12	27-Mar-2015
DMM	ISO-TECH	IDM101	2419	12	09-Oct-2014
Spectrum Analyser	Agilent	PXA	US49230237	12	16-Jul-2015
Network Analyser	Agilent	8722ES	US39175387	12	04-Oct-2014
Power Meter	Agilent	1912A	MY45101348	24	22-Jul-2016
Power Meter	Agilent	1912A	MY45101063	24	22-Jul-2016
Power Sensor	Agilent	1921A	MY45200381	12	22-Jul-2015
Power Sensor	Agilent	1921A	SG45240334	12	31-Mar-2015
Power Sensor	Agilent	1921A	MY52410016	12	22-Jul-2015
Power Sensor	Agilent	1921A	MY45200113	12	22-Jul-2015
Attenuator	Weinschel	WA48-30-33-LIM	A1995	-	O/P Mon
Attenuator	Weinschel	WA48-30-33-LIM	A1996	-	O/P Mon
Attenuator	Weinschel	WA48-30-33-LIM	A1997	-	O/P Mon
Attenuator	Weinschel	WA48-30-33-LIM	A1998	-	O/P Mon
Load	Weinschel	WA1423-4-LIM	A2929	-	O/P Mon
Load	Weinschel	WA1423-4-LIM	A2930	-	O/P Mon
Load	Weinschel	WA1423-4-LIM	A2931	-	O/P Mon
PSU	Xantrex	XKW60-50	1001178171	-	O/P Mon
Occupied Bandwidth					
Hygrometer	Rotronic	HP21	4410	12	27-Mar-2015
DMM	ISO-TECH	IDM101	2419	12	09-Oct-2014
Spectrum Analyser	Agilent	PXA	US49230237	12	16-Jul-2015
Network Analyser	Agilent	8722ES	US39175387	12	04-Oct-2014
Attenuator	Weinschel	WA48-30-33-LIM	A1995	-	O/P Mon
Attenuator	Weinschel	WA48-30-33-LIM	A1996	-	O/P Mon
Attenuator	Weinschel	WA48-30-33-LIM	A1997	-	O/P Mon
Attenuator	Weinschel	WA48-30-33-LIM	A1998	-	O/P Mon
PSU	Xantrex	XKW60-50	1001178171	-	O/P Mon
Load	Weinschel	WA1423-4-LIM	A2929	-	O/P Mon
Load	Weinschel	WA1423-4-LIM	A2930	-	O/P Mon
Load	Weinschel	WA1423-4-LIM	A2931	-	O/P Mon

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Due
Band Edge					
Hygrometer	Rotronic	HP21	4410	12	27-Mar-2015
DMM	ISO-TECH	IDM101	2419	12	09-Oct-2014
Spectrum Analyser	Agilent	PXA	US49230237	12	16-Jul-2015
Network Analyser	Agilent	8722ES	US39175387	12	04-Oct-2014
Attenuator	Weinschel	WA48-30-33-LIM	A1995	-	O/P Mon
Attenuator	Weinschel	WA48-30-33-LIM	A1996	-	O/P Mon
Attenuator	Weinschel	WA48-30-33-LIM	A1997	-	O/P Mon
Attenuator	Weinschel	WA48-30-33-LIM	A1998	-	O/P Mon
PSU	Xantrex	XKW60-50	1001178171	-	O/P Mon
Load	Weinschel	WA1423-4-LIM	A2929	-	O/P Mon
Load	Weinschel	WA1423-4-LIM	A2930	-	O/P Mon
Load	Weinschel	WA1423-4-LIM	A2931	-	O/P Mon
Transmitter Spurious Emissions					
Hygrometer	Rotronic	HP21	4410	12	27-Mar-2015
DMM	ISO-TECH	IDM101	2419	12	09-Oct-2014
Spectrum Analyser	Agilent	PXA	US49230237	12	16-Jul-2015
Network Analyser	Agilent	8722ES	US39175387	12	04-Oct-2014
Attenuator	Weinschel	WA48-30-33-LIM	A1995	-	O/P Mon
Attenuator	Weinschel	WA48-30-33-LIM	A1996	-	O/P Mon
Attenuator	Weinschel	WA48-30-33-LIM	A1997	-	O/P Mon
Attenuator	Weinschel	WA48-30-33-LIM	A1998	-	O/P Mon
High Pass Filter	Wainwright	WHNX6-2765-3500-26500-4000	1	-	O/P Mon
PSU	Xantrex	XKW60-50	1001178171	-	O/P Mon
Load	Weinschel	WA1423-4-LIM	A2929	-	O/P Mon
Load	Weinschel	WA1423-4-LIM	A2930	-	O/P Mon
Load	Weinschel	WA1423-4-LIM	A2931	-	O/P Mon
Frequency Stability					
Hygrometer	Rotronic	HP21	4410	12	27-Mar-2015
DMM	ISO-TECH	IDM101	2419	12	09-Oct-2014
Thermometer	Fluke	51	2267	12	11-Sep-2014
Spectrum Analyser	Agilent	PXA	US49230237	12	16-Jul-2015
Network Analyser	Agilent	8722ES	US39175387	12	04-Oct-2014
Attenuator	Weinschel	WA48-30-33-LIM	A1995	-	O/P Mon
Attenuator	Weinschel	WA48-30-33-LIM	A1996	-	O/P Mon
Attenuator	Weinschel	WA48-30-33-LIM	A1997	-	O/P Mon
Attenuator	Weinschel	WA48-30-33-LIM	A1998	-	O/P Mon
Climatic chamber	Burnsco	RTC-37P-3-3	07-07	-	O/P Mon
PSU	Xantrex	XKW60-50	1001425551	-	O/P Mon
Load	Weinschel	WA1423-4-LIM	A2929	-	O/P Mon
Load	Weinschel	WA1423-4-LIM	A2930	-	O/P Mon

N/A – Not Applicable

OP MON – Output Monitored with Calibrated Equipment

3.2 MEASUREMENT UNCERTAINTY

For a 95% confidence level, the measurement uncertainties for defined systems are:-

Test Discipline	Frequency / Parameter	MU
Operating band unwanted emissions		± 0.9 dB
Adjacent Channel Leakage power Ratio (ACLR)	ACLR	± 0.6 dB
	Absolute power	± 0.9 dB
Transmitter spurious emissions	For "Spurious emissions"	
	9 kHz < f ≤ 4 GHz	± 1.6 dB
	4 GHz < f ≤ 12,75 GHz	± 1.9 dB
	For co-existence requirements (> -60 dBm)	± 0.9 dB
	For co-existence requirements (≤ -60 dBm)	± 1.1 dB
	For protection of the BS receiver	± 1.1 dB
Base Station maximum output power		± 0.1 dB
Transmitter intermodulation	For Operating band unwanted emissions	± 0.9 dB
	For ACLR	± 0.6 dB
	For "Spurious emissions":	
	f ≤ 2,2 GHz	± 0.9 dB
	2,2 GHz < f ≤ 4 GHz	± 1.6 dB
	f > 4 GHz	± 1.9 dB
Receiver spurious emissions	30 MHz ≤ f ≤ 4 GHz	± 1.6 dB
	4 GHz < f ≤ 12,75 GHz	± 1.9 dB
Blocking characteristics	In-band blocking, using modulated interferer	± 0.3 dB
	Out of band blocking, using CW interferer:	
	1 MHz < finterferer ≤ 3 GHz	± 0.4 dB
Receiver intermodulation characteristics	3 GHz < finterferer ≤ 12,75 GHz	± 0.5 dB
		± 0.9 dB
Adjacent Channel Selectivity (ACS) and narrow-band blocking		± 0.9 dB



Product Service

SECTION 5

ACCREDITATION, DISCLAIMERS AND COPYRIGHT

4.1 ACCREDITATION, DISCLAIMERS AND COPYRIGHT



This report relates only to the actual item/items tested.

Our UKAS Accreditation does not cover opinions and interpretations and any expressed are outside the scope of our UKAS Accreditation.

Results of tests not covered by our UKAS Accreditation Schedule are marked NUA (Not UKAS Accredited).

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Product Service

ANNEX A

MODULE LIST

Configuration A			
Product	Product No	R-State	Serial No
ARUS 32 B4	KRD 901 044/1	R1A	TM30006701
Radio Module	KRC 118 050/1	R1A	C828074982
Radio Module	KRC 118 050/1	R1A	C828116765
Software Version:	CXP9017316/5	Revision:	R59AE