RF TEST REPORT

Report No.: SET2019-12575

Product: LTE/WCDMA/GSM（GPRS）Multi-Mode Wireless Router

FCC ID: SRQ-MF283U

Model No.: MF283U

Applicant: ZTE Corporation

Address: ZTE Plaza, Keji Road South, Shenzhen, China

Dates of Testing: 09/01/2019 — 09/24/2019

Issued by: CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd.

Lab Location: Building 28/29, East of Shigu, Xili Industrial Zone, Xili Road, Nanshan District, Shenzhen, Guangdong, China.

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Test Report

Product……:	LTE/WCDMA/GSM（GPRS） Multi-Mode Wireless Router
Brand Name……:	ZTE
Trade Name……:	ZTE
Applicant……:	ZTE Corporation
Applicant Address……:	ZTE Plaza, Keji Road South, Shenzhen, China.
Manufacturer……:	ZTE Corporation
Manufacturer Address…:	ZTE Plaza, Keji Road South, Shenzhen, China.
Test Standards……:	47 CFR FCC Part 2: Frequency Allocations and Radio Treaty Matters; General Rules and Regulations 47 CFR FCC Part 2/22/24/27
Test Result……:	PASS

Tested by……: Robin Luo 2019.09.24

Robin Luo，Test Engineer

Reviewed by……: Chris You 2019.09.24

Chris You, Senior Engineer

Approved by……: ShuangwenZhang 2019.09.24

ShuangwenZhang，Manager

Table of Contents

Change History		
Issue	Date	Reason for change
1.0	2019.09.24	First edition

1. GENERAL INFORMATION

1.1 EUT Description

EUT Type	LTE/WCDMA/GSM（GPRS）Multi-Mode Wireless Router
EUT supports Radios application	GPRS/EDGE/WCDMA/HSPA
Multi Slot Class	GPRS: Multi slot Class12, EGPRS: Multi slot Class12
Frequency Range	GSM 850MHz: Tx: 824.2 - 848.8MHz (at intervals of 200kHz); Rx: 869.2 - 893.8MHz (at intervals of 200kHz) GSM 1900MHz: Tx: 1850.2 - 1909.8MHz (at intervals of 200kHz); Rx: 1930.2 - 1989.8MHz (at intervals of 200kHz) WCDMA 850MHz Tx: 826.4 - 846.6MHz (at intervals of 200kHz); Rx: 871.4 - 891.6MHz (at intervals of 200kHz) WCDMA 1700MHz Tx: 1712.4 - 1752.6MHz (at intervals of 200kHz); Rx: 2112.4 - 2152.6MHz (at intervals of 200kHz) WCDMA 1900MHz Tx: 1852.4 - 1907.6MHz (at intervals of 200kHz); Rx: 1932.4 - 1987.6MHz (at intervals of 200kHz)
Maximum Output Power to Antenna	GSM 850: 31.9dBm GSM 1900: 29.2dBm EDGE 850: 25.5dBm EDGE 1900: 24.7dBm WCDMA 850: 22.62dBm WCDMA 1700:21.98dBm WCDMA 1900: 22.28dBm
Type of Modulation	GSM / GPRS:GMSK EDGE:GMSK / 8PSK WCDMA: QPSK(Uplink) HSDPA:QPSK(Downlink) HSUPA:QPSK(Uplink)
Antenna Type	Internal Antenna
Antenna Gain	GSM 850/ WCDMA 850: 0.5dBi GSM 1900/ WCDMA 1900: 1.5dBi WCDMA 1700:1.5dBi

1.2 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

System	Type of Modulation	Emission Designator	Frequency Tolerance (ppm)	Maximum ERP/EIRP(W)
GPRS 850	GMSK	250KGXW	0.0046	1.271
GPRS 1900	GMSK	243KGXW	0.0037	0.748
EDGE 850	8PSK	236KG7W	0.0065	0.335
EDGE 1900	8PSK	241KG7W	0.0039	0.258
WCDMA 850 RMC 12.2Kbps	QPSK	4M18F9W	0.0042	0.167
WCDMA 1900 RMC 12.2Kbps	QPSK	4M18F9W	0.0056	0.173
WCDMA 1700 RMC 12.2Kbps	QPSK	4M18F9W	0.0034	0.139

1.3 Test Standards and Results

1. 47 CFR Part 2, 22(H), 24(E), 27(L)

2. ANSI / TIA / EIA-603-D-2010

3. FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01

Remark：
1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Limit	Result
	FCC			
1	2.1046	Conducted Output Power	Reporting Only	PASS
2	24.232(d) 27.50(d)	Peak to Average Radio	＜13dBm	PASS
3	2.1049 22.917(b) 24.238(b) 27.53(g)	Occupied Bandwidth	Reporting Only	PASS
4	2.1055 22.355 24.235 27.54	Frequency Stability	≤±2.5ppm	PASS
5	2.1051 22.917 24.238 27.53	Conducted Out of Band Emissions	< 43+10log10 (P[Watts])	PASS
6	2.1051 22.917 24.238 27.53	Band Edge	< 43+10log10 (P[Watts])	PASS
7	22.913	Effective Radiated Power	＜7Watts	PASS
	24.232	Equivalent Isotropic Radiated Power	＜2Watts	PASS
	27.50(d)	Effective Radiated Power	＜1Watts	PASS

8	2.1053 22.917 24.238 27.53	Radiated Spurious Emissions	< 43+10log10 (P[Watts])	PASS

1.4 Test Configuration of Equipment under Test

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

1. 30 MHz to 9000 MHz for GSM850 and WCDMA Band V.
2. 30 MHz to 20000 MHz for GSM1900 and WCDMA Band II.
3. 30 MHz to 18000 MHz for WCDMA Band IV.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

Test Modes		
Band	Radiated TCs	Conducted TCs
GSM 850	GPRS Link GPRS Link	GPRS Link GPRS Link
GSM 1900	GPRS Link GPRS Link	GPRS Link GPRS Link
WCDMA Band V	RMC 12.2Kbps Link	RMC 12.2Kbps Link
WCDMA Band II	RMC 12.2Kbps Link	RMC 12.2Kbps Link
WCDMA Band IV	RMC 12.2Kbps Link	RMC 12.2Kbps Link

Note: The maximum power levels are chosen to test as the worst case configuration as follows:

GSM mode for GMSK modulation,

EDGE multi-slot class 8 mode for 8PSK modulation,

RMC 12.2Kbps mode for WCDMA band V,

RMC 12.2Kbps mode for WCDMA band II, only these modes were used for all tests.

RMC 12.2Kbps mode for WCDMA band IV, only these modes were used for all tests.

1.5 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.
Following shows an offset computation example with cable loss 6B and 10dB attenuator.

Example:

Offset (dB) = RF cable loss(dB) + attenuator factor(dB).
= 7.5+ 10 = 17.5(dB)

1.6 Facilities and Accreditations

1.6.1 Test Facilities

NVLAP Lab Code: 201008-0

CCIC-SET is a third party testing organization accredited by NVLAP according to ISO/IEC 17025. The accreditation certificate number is 201008-0.

FCC- Designation Number: CN5031

CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Designation Number: CN5031, valid time is until December 31, 2019.

ISED Registration: 11185A-1

CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A-1 on Aug. 04, 2016, valid time is until Aug. 03, 2019

1.6.2 Test Environment Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15℃- 35℃
Relative Humidity (%):	30% -60%
Atmospheric Pressure (kPa):	86KPa-106KPa

2. 47 CFR PART 2, PART 22H & 24E 27L REQUIREMENTS

2.1 Conducted RF Output Power

2.1.1 Definition

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

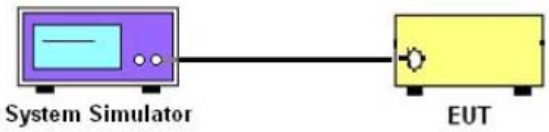
2.1.2 Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.1.3 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

2.1.4 Test Setup



2.1.5 Test Results of Conducted Output Power

1. Test Verdict:

Band	Channel	Frequency (MHz)	Measured Output Power dBm	Verdict
GPRS 850MHz	128	824.2	31.70	PASS
	190	836.6	31.90	PASS
	251	848.8	31.02	PASS
GPRS 1900MHz	512	1850.2	29.00	PASS
	661	1880.0	28.70	PASS
	810	1909.8	29.20	PASS
EDGE 850MHz	128	824.2	25.00	PASS
	190	836.6	25.30	PASS
	251	848.8	25.50	PASS
EDGE 1900MHz	512	1850.2	24.20	PASS
	661	1880.0	24.70	PASS
	810	1909.8	24.30	PASS

Note 1: For the GPRS model, all the slots were tested and just the worst data was record in this report.

2. WCDMA Model Test Verdict:

Item	band	WCDMA 850			WCDMA 1900			WCDMA1700		
	Frequency	4132	4183	4233	9262	9400	9538	1313	1413	1513
	Subtest	dBm			dBm			dBm		
WCDMA	RMC 12.2Kbps	22.55	22.62	22.46	22.28	22.08	21.99	21.44	21.98	21.31
HSDPA	1	22.32	22.23	22.24	22.12	22.31	22.32	21.24	21.43	21.45
	2	21.75	21.69	21.87	21.78	21.67	21.24	21.15	21.36	21.25
	3	21.23	21.20	21.22	21.32	21.32	21.11	21.12	21.21	21.06
	4	21.14	21.18	21.13	21.29	21.29	21.04	21.10	21.08	21.00
HSUPA	1	22.42	22.53	22.45	22.27	22.13	21.85	21.74	21.56	21.32
	2	21.89	21.75	21.88	21.97	21.89	21.69	21.25	21.15	21.16
	3	21.52	21.53	21.47	21.62	21.35	21.32	21.17	21.16	21.13
	4	21.23	21.24	21.28	21.27	21.24	21.19	20.85	20.85	20.87
	5	21.21	21.20	21.23	21.13	21.08	21.10	20.66	20.65	20.49

2.2 Peak to Average Radio

2.2.1 Definition

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

2.2.2 Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.2.3 Test Procedures

1. The testing follows FCC KDB 971168 D01 v03r01 Section 5.7.1.

2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.

3. For GSM/EGPRS operating modes:

a. Set EUT in maximum power output.

b. Set the RBW = 1MHz, VBW = 3MHz, Peak detector on spectrum analyzer for first trace.

c. Set the RBW = 1MHz, VBW = 3MHz, RMS detector on spectrum analyzer for second trace.

d. The wanted burst signal is triggered by spectrum analyzer, and measured respectively the peak level and Mean level without burst-off time, after system simulator has synchronized with the spectrum analyzer.

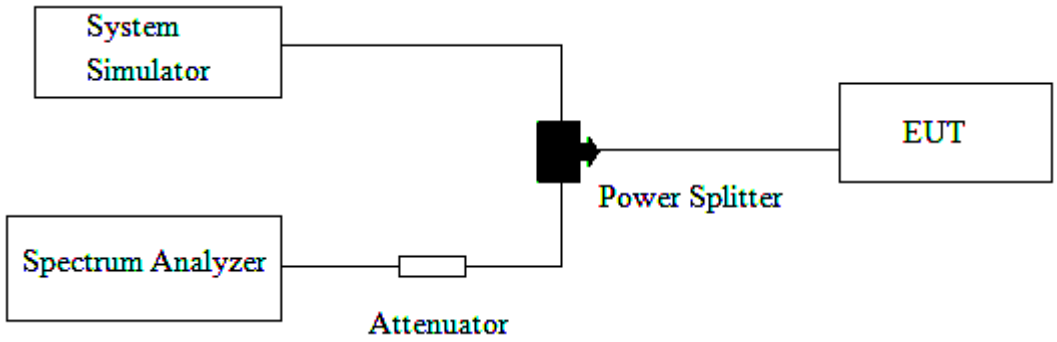
4. For UMTS operating modes:

a. Set the CCDF (Complementary Cumulative Distribution Function) option on the spectrum analyzer.

b. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.

5. Record the deviation as Peak to Average Ratio.

2.2.4 Test Setup



2.2.5 Test Results of Peak-to-Average Ratio

Band	Channel	Frequency (MHz)	Peak to Average radio dB	Limit dB	Verdict
GPRS 1900MHz	512	1850.2	0.3	13	PASS
	661	1880.0	0.8		PASS
	810	1909.8	0.2		PASS
EDGE 1900MHz	512	1850.2	3.9	13	PASS
	661	1880.0	3.9		PASS
	810	1909.8	3.8		PASS
WCDMA 1900MHz	9262	1852.4	3.31	13	PASS
	9400	1880.0	3.23		PASS
	9538	1907.6	3.15		PASS
WCDMA 1700MHz	1312	1712.4	3.14	13	PASS
	1412	1732.4	3.15		PASS
	1513	1752.6	3.27		PASS

2.3 99% Occupied Bandwidth and 26dB Bandwidth Measurement

2.3.1 Definition

The 99% occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

2.3.2 Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.3.3 Test Procedures

1. The testing follows FCC KDB 971168 D01 v03r01 Section 4.2.

2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.

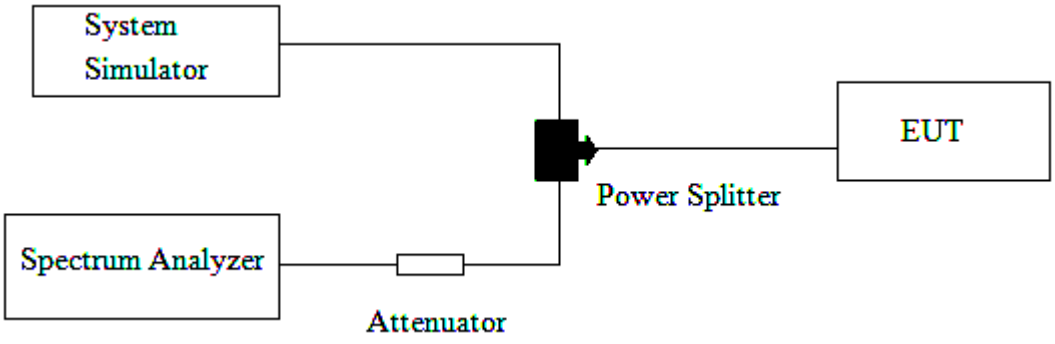
3. The RF output of the EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

4. The 99% occupied bandwidth were measured, set RBW= 1% of span, VBW= 3*RBW, sample detector, trace maximum hold.

5. The 26dB bandwidth were measured, set RBW= 1% of EBW, VBW= 3*RBW, peak detector, trace maximum hold.

2.3.4 Test Setup

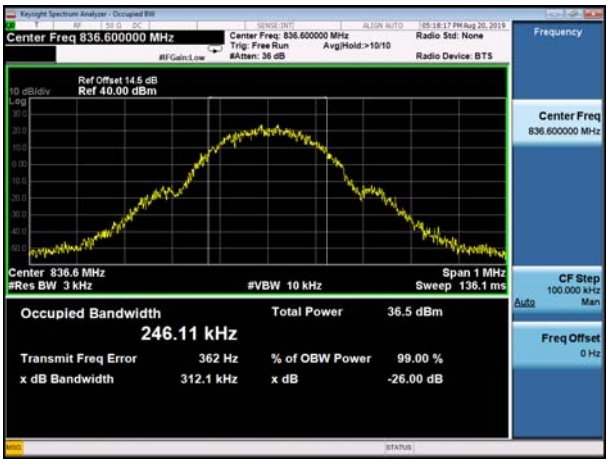


2.3.5 Test Results of 99% Occupied Bandwidth and 26dB Bandwidth

Band	Channel	Frequency (MHz)	26dB bandwidth (KHz)	99% Occupied Bandwidth (KHz)	Refer to Plot
GSM 850MHz	128	824.2	318.5	249.62	Plot A1
	190	836.6	312.1	246.11	Plot A2
	251	848.8	314.2	246.17	Plot A3
GSM 1900MHz	512	1850.2	308.6	243.35	Plot B1
	661	1880.0	306.6	239.72	Plot B2
	810	1909.8	306.8	242.83	Plot B3
EDGE 850MHz	128	824.2	309.9	235.5	Plot C1
	190	836.6	309.9	236	Plot C2
	251	848.8	309.5	233.86	Plot C3
EDGE 1900MHz	512	1850.2	308.4	238.53	Plot D1
	661	1880.0	309.4	241.15	Plot D2
	810	1909.8	309.8	240.1	Plot D3
WCDMA 850MHz	4132	826.4	4692	4176.8	Plot E1
	4183	836.6	4693	4166.5	Plot E2
	4233	846.6	4689	41700	Plot E3
WCDMA 1900MHz	9262	1852.4	4683	4138.8	Plot F1
	9400	1880	4681	4176.3	Plot F2
	9538	1907.6	4690	4162.2	Plot F3
WCDMA 1700MHz	1312	1712.4	4697	4166.9	Plot G1
	1412	1732.4	4680	4178	Plot G2
	1513	1752.6	4685	4173.1	Plot G3

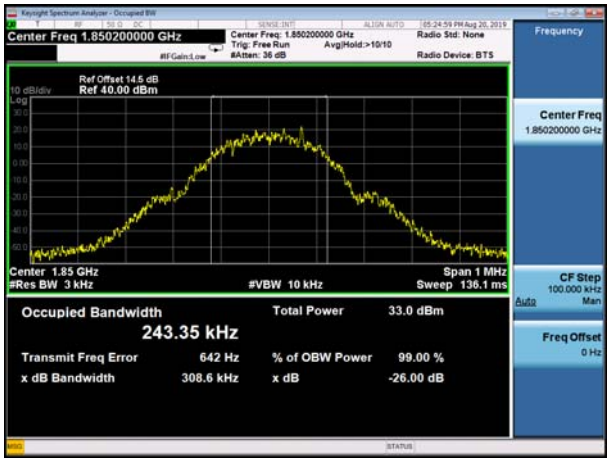
2.3.6 Test Results (Plots) of 99% Occupied Bandwidth and 26dB Bandwidth

(Plot A1: GSM 850MHz Channel = 128 Occupied bandwidth)



(Plot A2: GSM 850MHz Channel = 190 Occupied bandwidth)

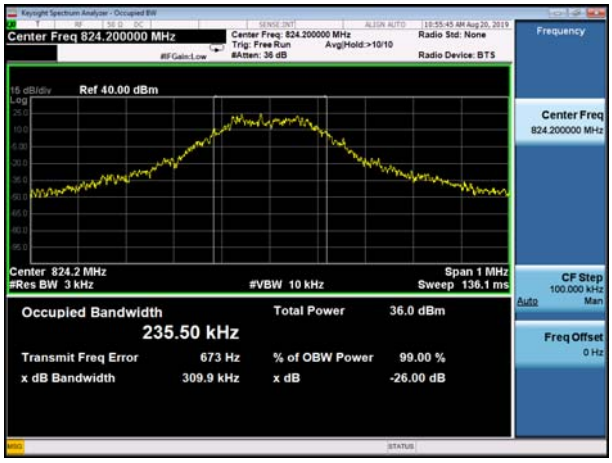
(Plot A3: GSM 850MHz Channel = 251 Occupied bandwidth)



(Plot B1: GSM 1900MHz Channel = 512 Occupied bandwidth)

(Plot B2: GSM 1900MHz Channel = 661 Occupied bandwidth)

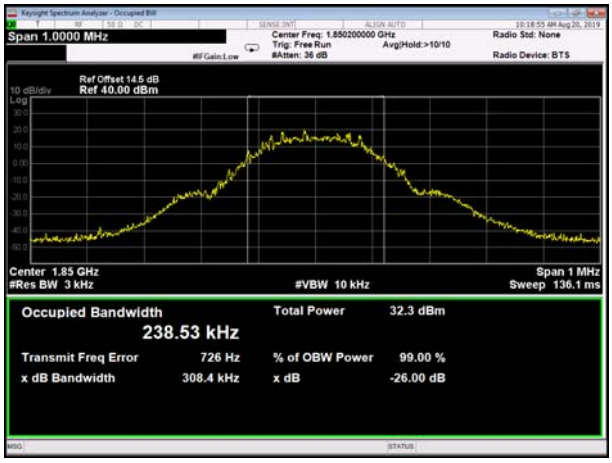
(Plot B3: GSM 1900MHz Channel = 810 Occupied bandwidth)



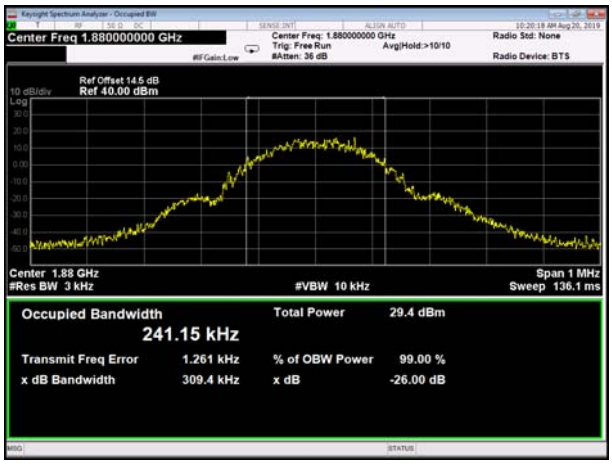
(Plot C1: EDGE 850MHz Channel = 128 Occupied bandwidth)

(Plot C2: EDGE 850MHz Channel = 190 Occupied bandwidth)

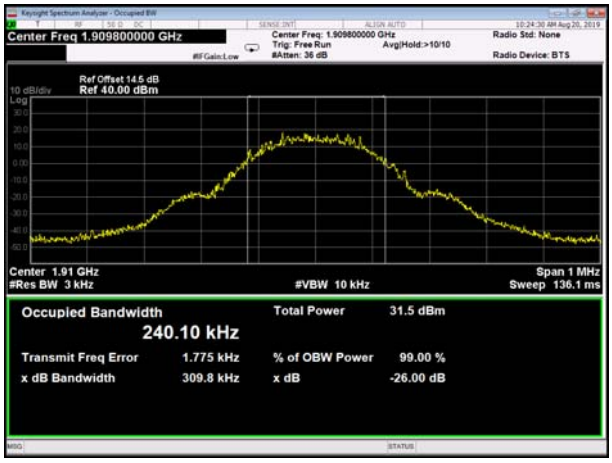
(Plot C3: EDGE 850MHz Channel = 251 Occupied bandwidth)



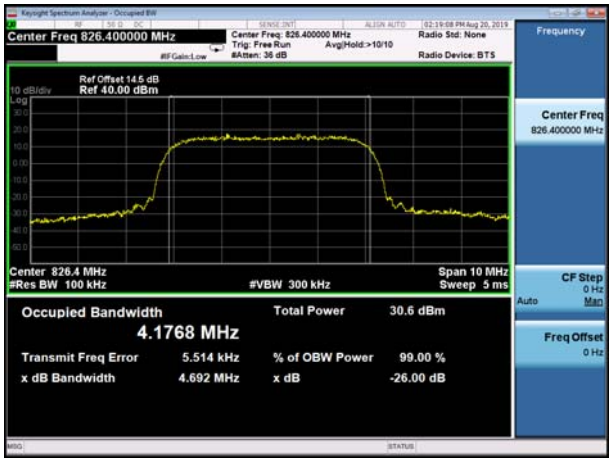
(Plot D1: EDGE 1900MHz Channel = 512 Occupied bandwidth)



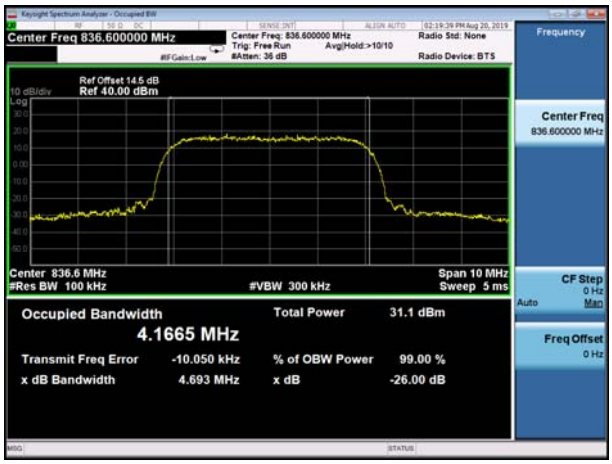
(Plot D2: EDGE 1900MHz Channel = 661 Occupied bandwidth)



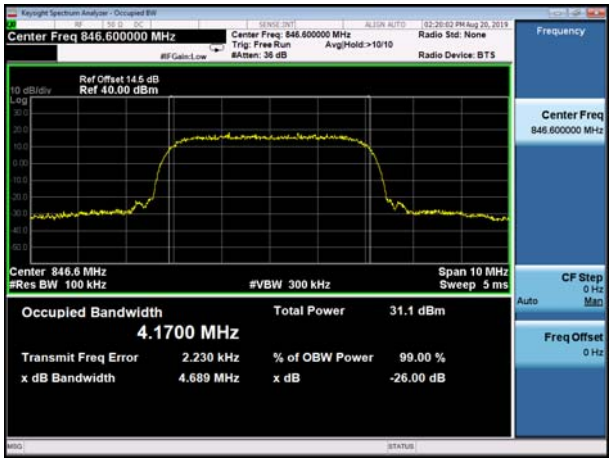
(Plot D3: EDGE 1900MHz Channel = 810 Occupied bandwidth)



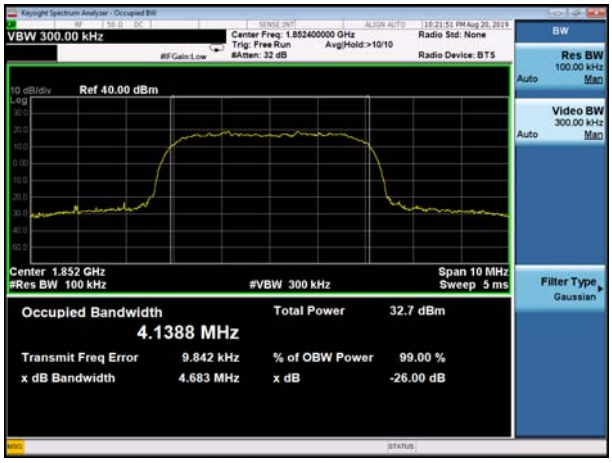
(Plot E1: WCDMA 850MHz Channel = 4132 Occupied bandwidth)



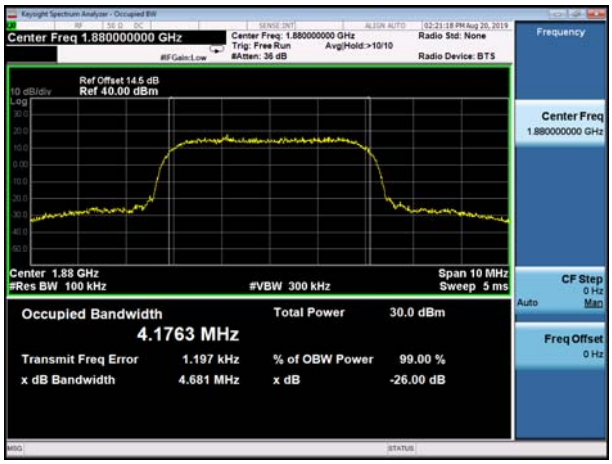
(Plot E2: WCDMA 850MHz Channel = 4183 Occupied bandwidth)



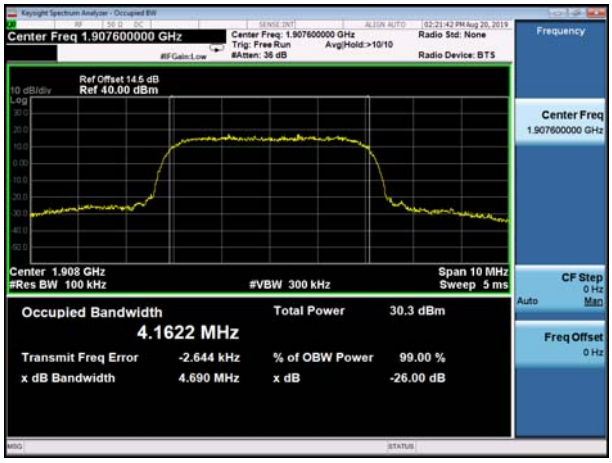
(Plot E3: WCDMA 850MHz Channel = 4233 Occupied bandwidth)



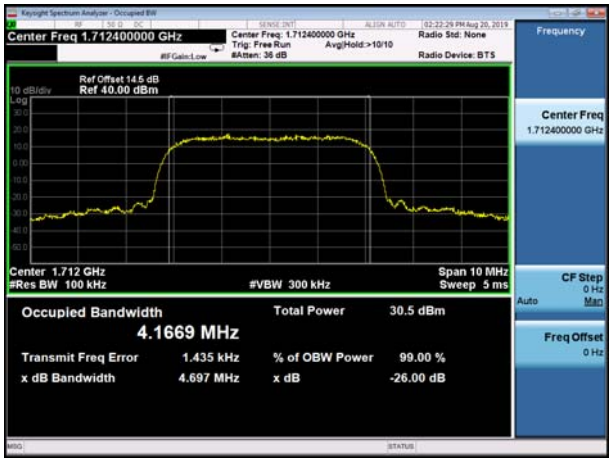
(Plot F1: WCDMA 1900MHz Channel = 9262 Occupied bandwidth)



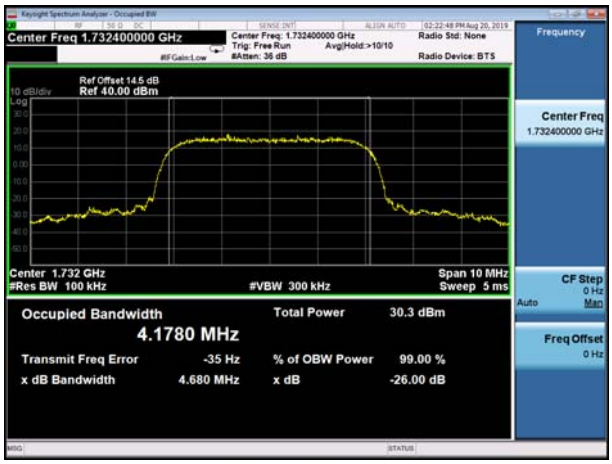
(Plot F2: WCDMA 1900MHz Channel = 9400 Occupied bandwidth)



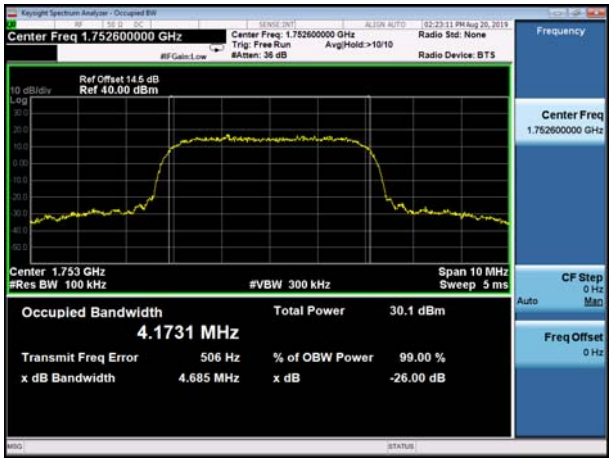
(Plot F3: WCDMA 1900MHz Channel = 9538 Occupied bandwidth)



(Plot G1: WCDMA 1700MHz Channel = 1312 Occupied bandwidth)



(Plot G2: WCDMA 1700MHz Channel = 1412 Occupied bandwidth)



(Plot G3: WCDMA 1700MHz Channel = 1513 Occupied bandwidth)

2.4 Frequency Stability

2.4.1 Requirement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

2.4.2 Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

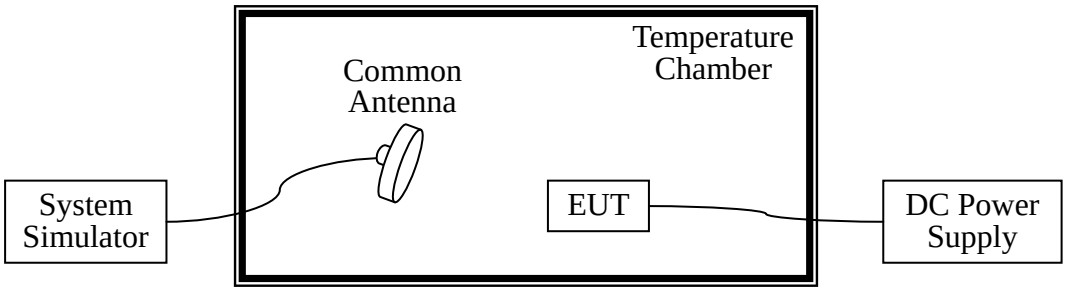
2.4.3 Test Procedures for Temperature Variation

1. The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C steps up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

2.4.4 Test Procedures for Voltage Variation

1. The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.
2. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
3. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.

2.4.5 Test Setup



2.4.6 Test Results of Frequency Stability

GSM 850MHz Band

Band:	GPRS850	Channel:	190
Limit(ppm):	2.5	Frequency:	836.6MHz

Power (VDC)	Temperature (℃)	GPRS Deviation (ppm)	EDGE Deviation (ppm)	Result
24	-30	0.0012	0.0021	PASS
	-20	**0.0046**	0.0039	
	-10	0.0038	**0.0065**	
	0	0.0028	0.0012	
	+10	0.0010	0.0033	
	+20	0.0009	0.0037	
	+30	0.0009	0.0029	
	+40	0.0017	0.0041	
	+50	0.0036	0.0052	
26.4	+25	0.0015	0.0005	
21.6	+25	0.0042	0.0049	

GSM 1900MHz Band

Band:	GPRS 1900	Channel:	661
Limit(ppm):	2.5	Frequency:	1880.0MHz

Power (VDC)	Temperature (℃)	GPRS Deviation (ppm)	EDGE Deviation (ppm)	Result
24	-30	0.0025	0.0036	PASS
	-20	0.0032	0.0033	
	-10	0.0031	0.0024	
	0	0.0022	0.0016	
	+10	0.0019	0.0026	
	+20	0.0024	0.0032	
	+30	**0.0037**	0.0024	
	+40	0.0022	0.0015	
	+50	0.0030	**0.0039**	
26.4	+25	0.0032	0.0022	
21.6	+25	0.0027	0.0032	

WCDMA 850MHz Band

Band:	WCDMA Band V	Channel:	4183
Limit(ppm):	2.5	Frequency:	836.6MHz

Power (VDC)	Temperature (℃)	RMC 12.2Kbps Deviation (ppm)	Result
24	-30	0.0031	PASS
	-20	0.0018	
	-10	0.0026	
	0	0.0018	
	+10	**0.0042**	
	+20	0.0035	
	+30	0.0026	
	+40	0.0021	
	+50	0.0032	
26.4	+25	0.0018	
21.6	+25	0.0009	

WCDMA 1900MHz Band

Band:	WCDMA Band II	Channel:	9400
Limit(ppm):	2.5	Frequency:	1880.0MHz

Power (VDC)	Temperature (℃)	RMC 12.2Kbps Deviation (ppm)	Result
24	-30	0.0033	PASS
	-20	0.0027	
	-10	0.0019	
	0	0.0029	
	+10	0.0027	
	+20	0.0009	
	+30	0.0012	
	+40	**0.0056**	
	+50	0.0027	
26.4	+25	0.0020	
21.6	+25	0.0019	

WCDMA 1700MHz Band

Band:	WCDMA Band IV	Channel:	1412
Limit(ppm):	2.5	Frequency:	1732.4MHz

Power (VDC)	Temperature (℃)	RMC 12.2Kbps Deviation (ppm)	Result
24	-30	0.0032	PASS
	-20	0.0018	
	-10	0.0025	
	0	0.0019	
	+10	0.0014	
	+20	0.0009	
	+30	0.0012	
	+40	**0.0034**	
	+50	0.0009	
26.4	+25	0.0012	
21.6	+25	0.0029	

2.5 Conducted Out of Band Emissions

2.5.1 Requirement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

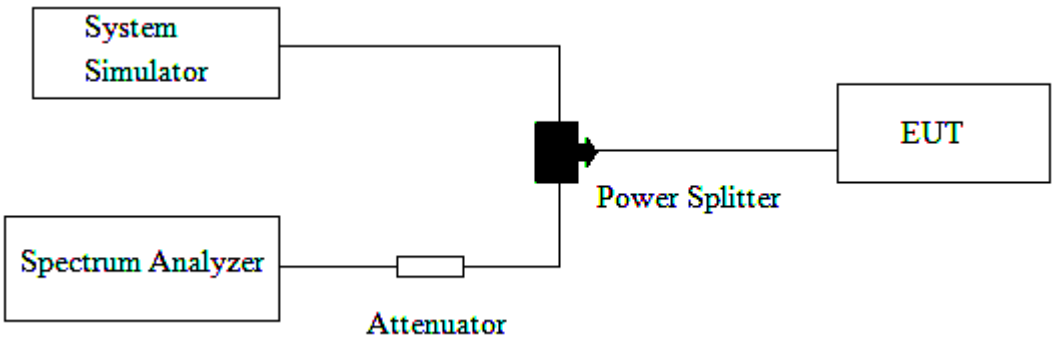
2.5.2 Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.5.3 Test Procedures

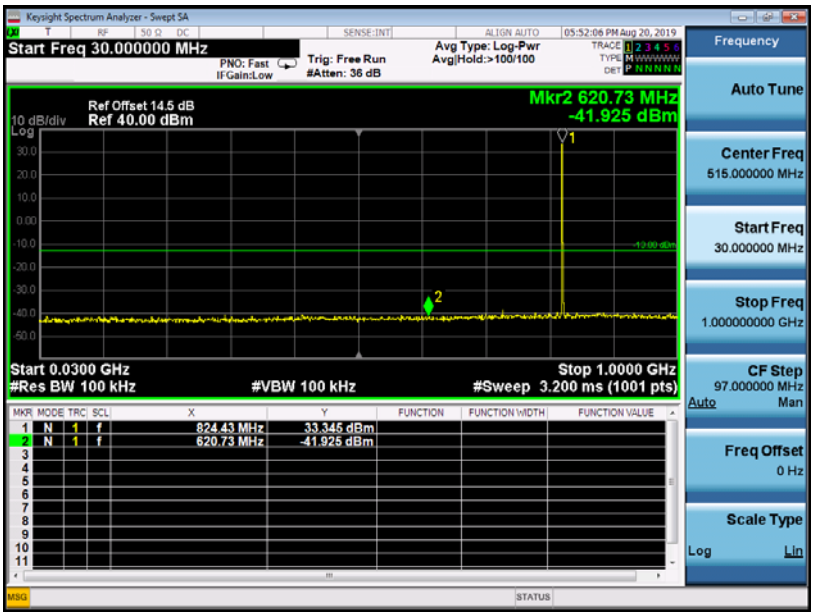
1. The testing follows FCC KDB 971168 D01 v03r01 Section 6.0.
2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
   = P(W) - [43 + 10log(P)] (dB)
   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
   = -13dBm.
8. For 9KHz to 30MHz: the amplitude of spurious emissions are attenuated by more than 20dB below the permissible value has no need to be reported.

2.5.4 Test Setup

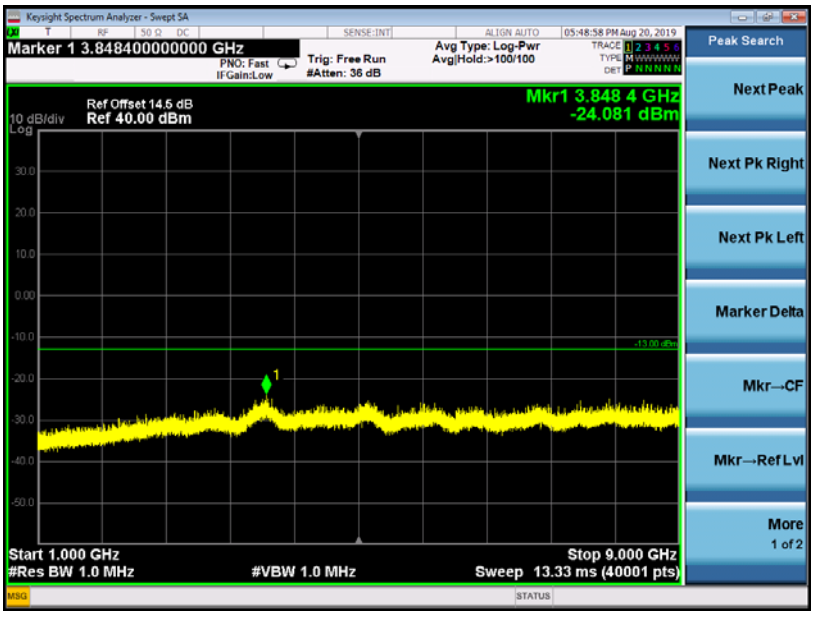


2.5.5 Test Result (Plots) of Conducted Spurious Emission

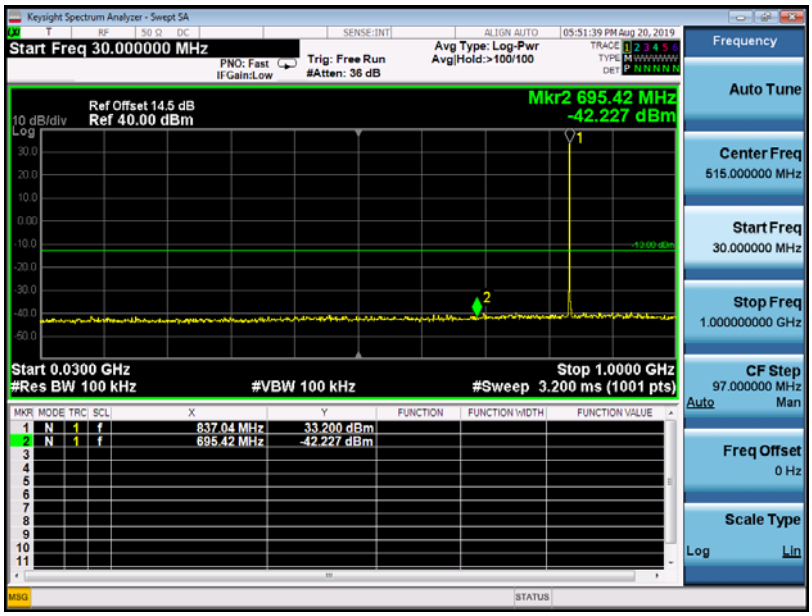
Note: For 9 KHz to 30MHz: the amplitude of spurious emissions is attenuated by more than 20dB below the permissible value, so we didn't provide the test result here.



GSM 850MHz Channel = 128, 30MHz to 1GHz

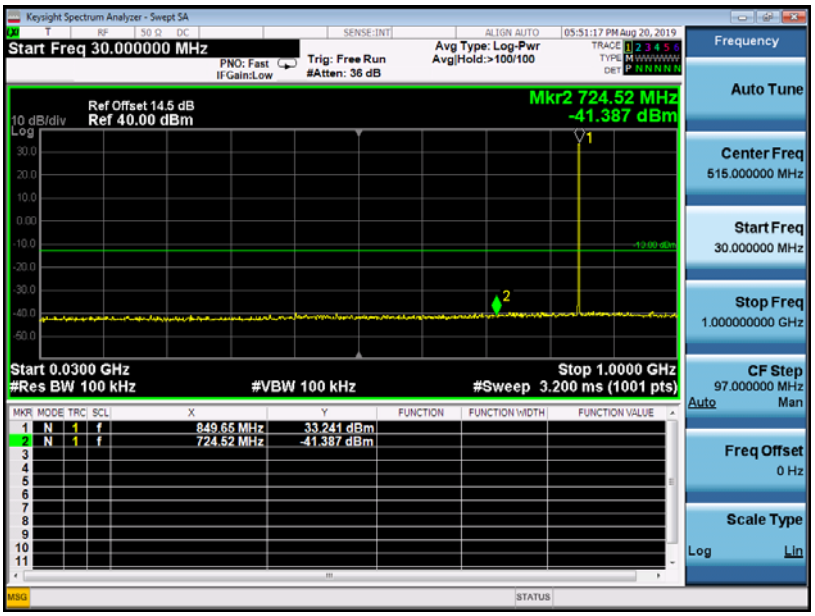


GSM 850MHz Channel = 128, 1GHz to 9GHz

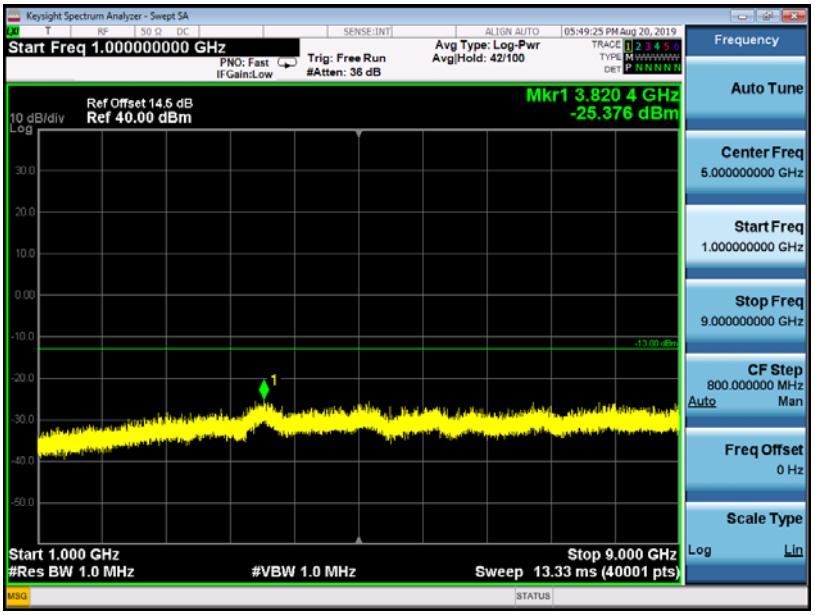


GSM 850MHz Channel = 190, 30MHz to 1GHz

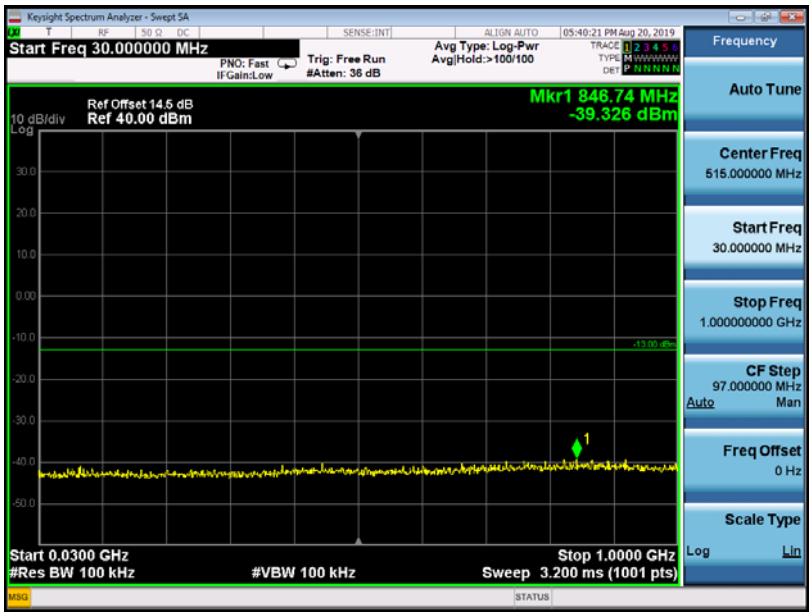
GSM 850MHz Channel = 190, 1GHz to 9GHz



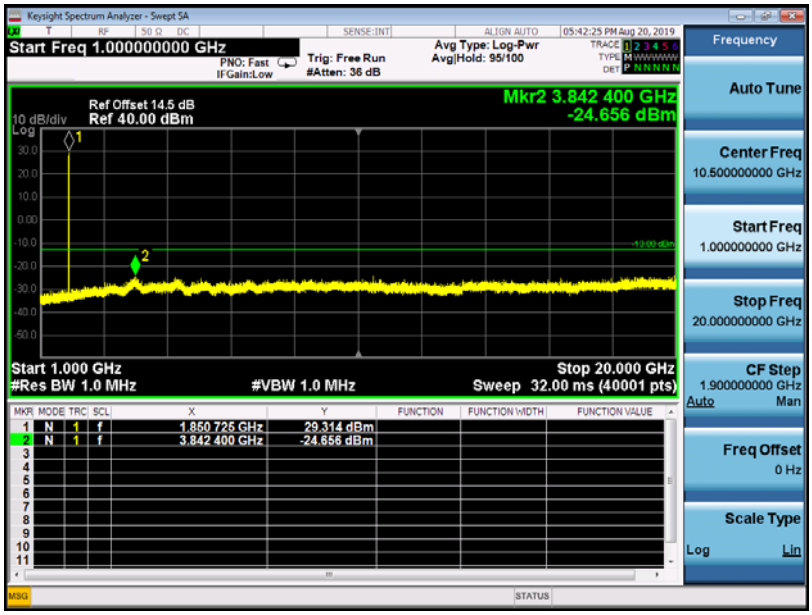
GSM 850MHz Channel = 251, 30MHz to 1GHz



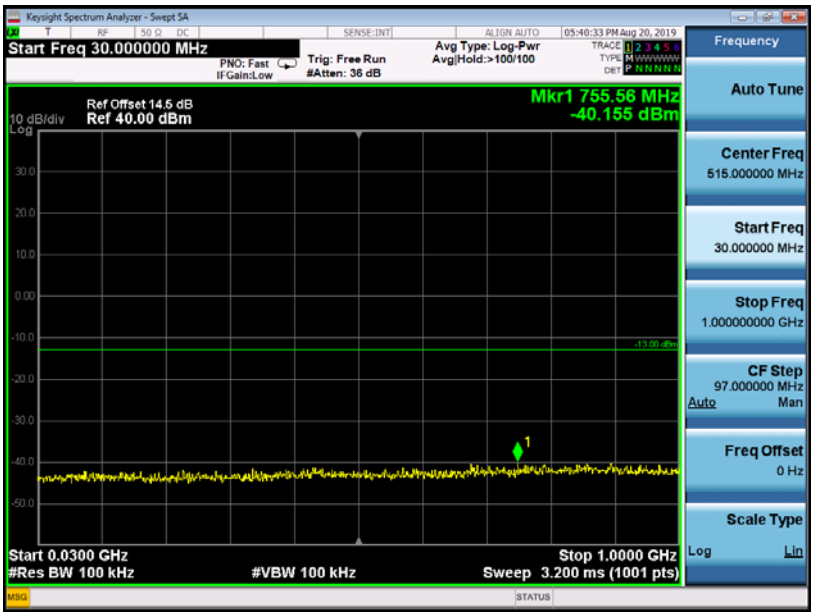
GSM 850MHz Channel = 251, 1GHz to 9GHz



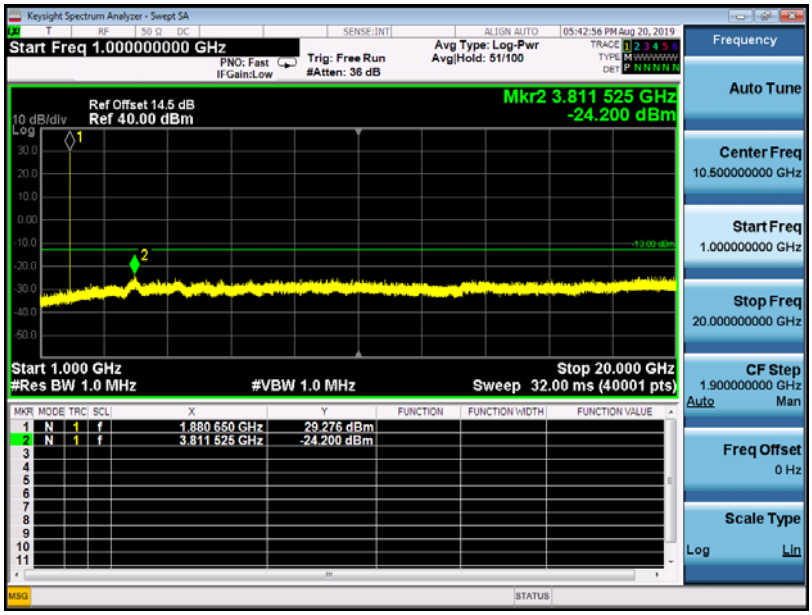
GSM 1900MHz Channel = 512, 30MHz to 1GHz



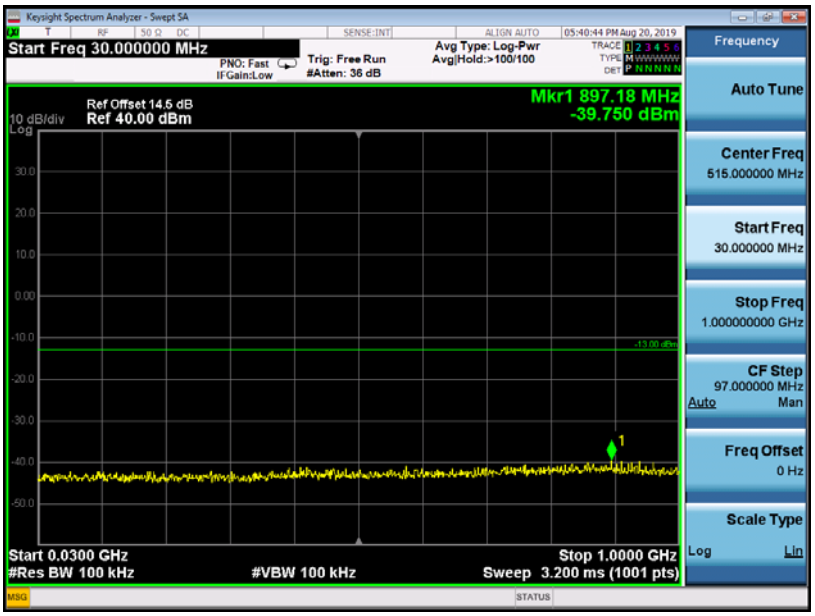
GSM 1900MHz Channel = 512, 1GHz to 20GHz



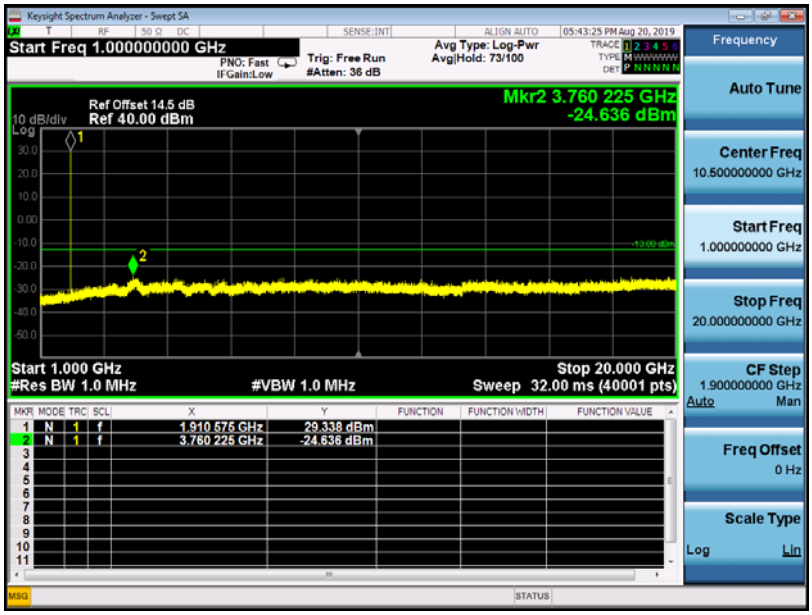
GSM 1900MHz Channel = 661, 30MHz to 1GHz



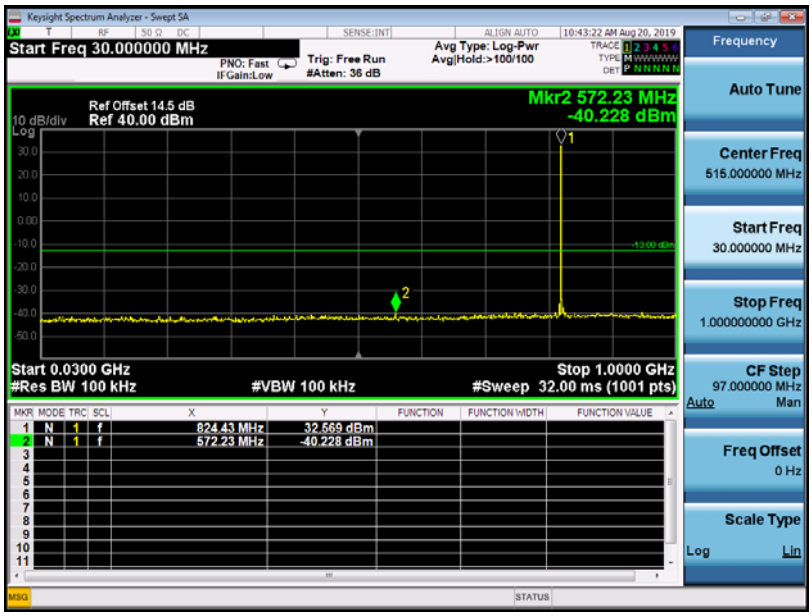
GSM 1900MHz Channel = 661, 1GHz to 20GHz



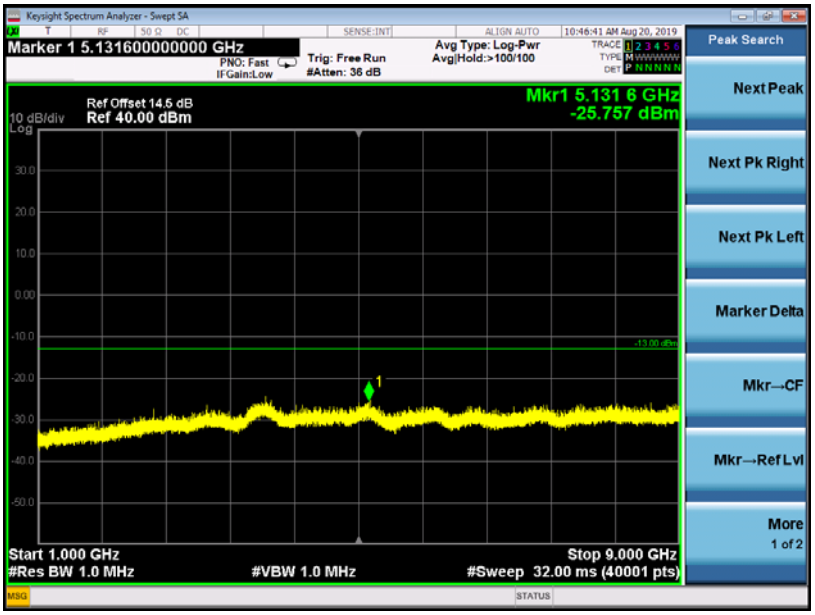
GSM 1900MHz Channel = 810, 30MHz to 1GHz



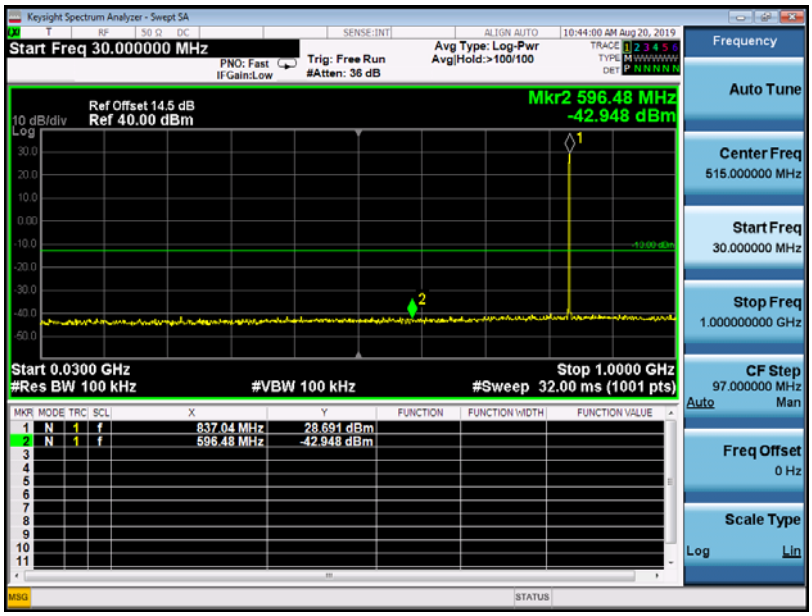
GSM 1900MHz Channel = 810, 1GHz to 20GHz



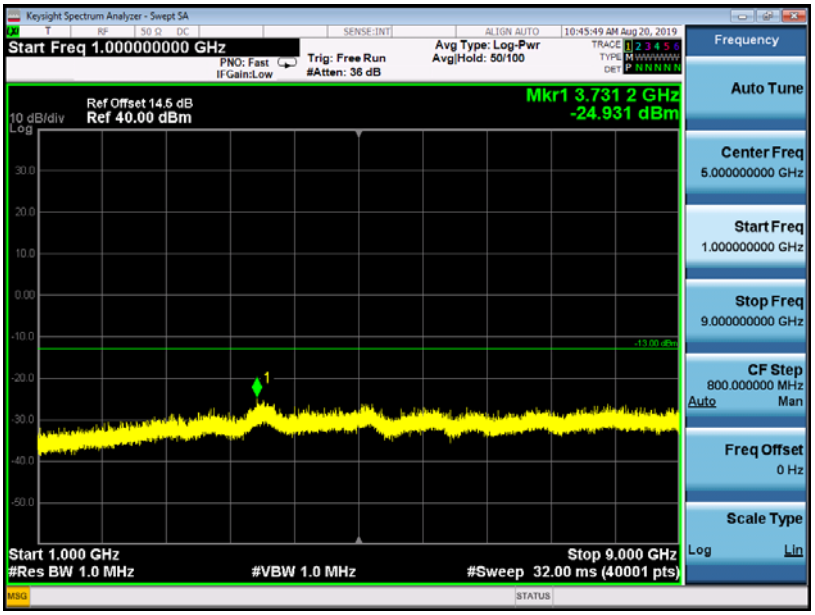
EDGE 850MHz Channel = 128, 30MHz to 1GHz



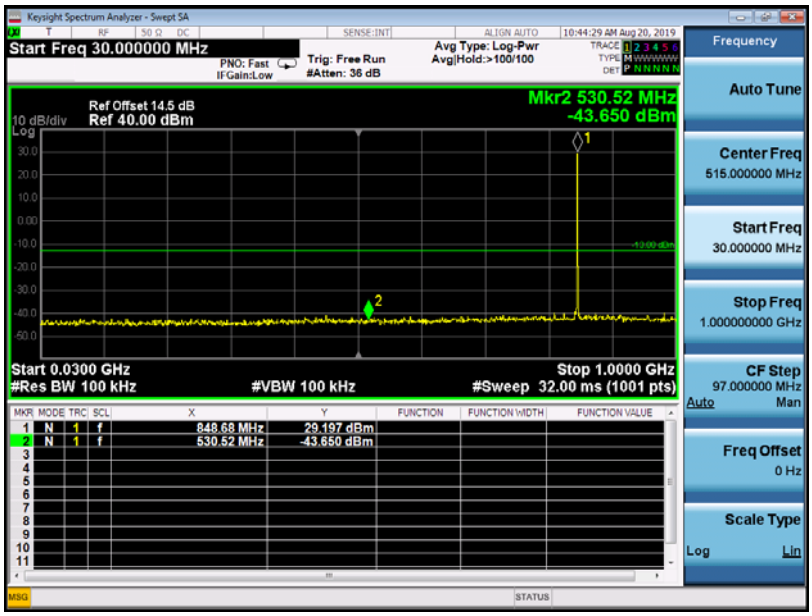
EDGE 850MHz Channel = 128, 1GHz to 9GHz



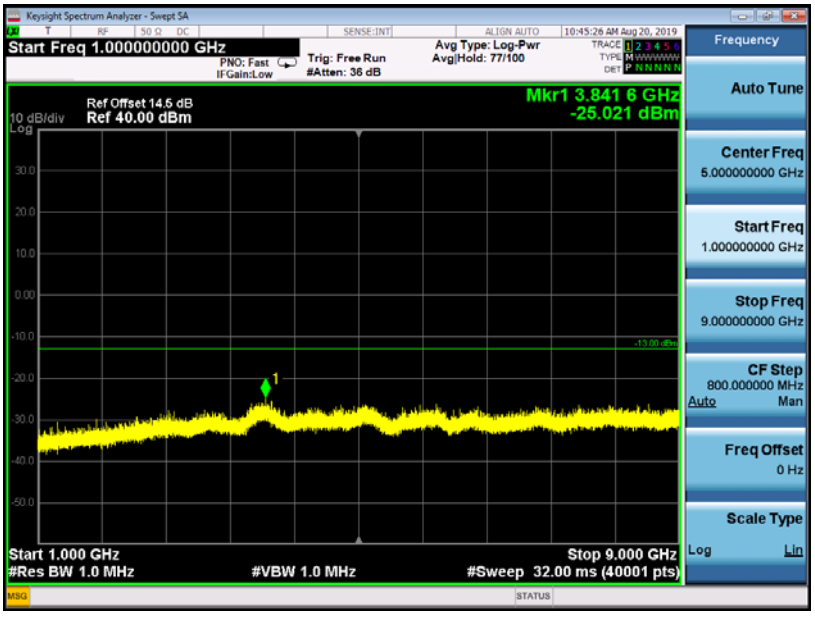
EDGE 850MHz Channel = 190, 30MHz to 1GHz



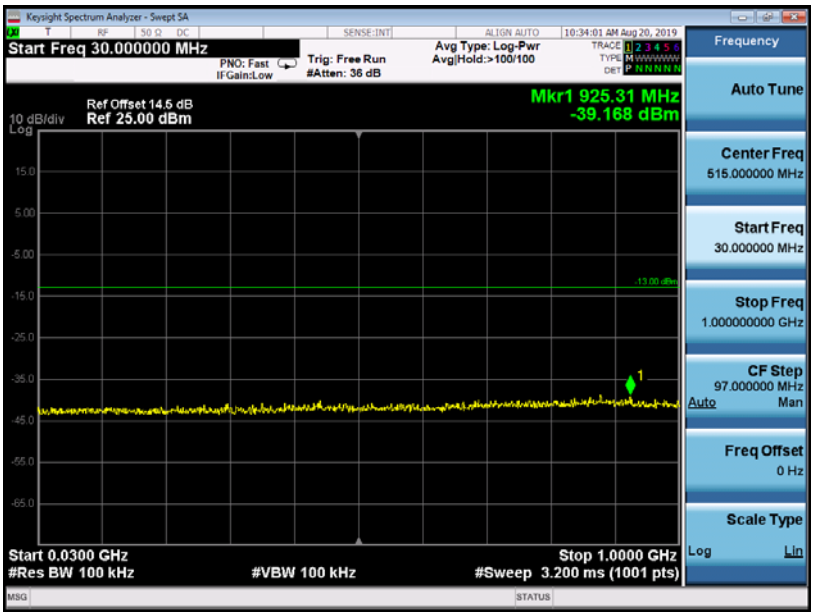
EDGE 850MHz Channel = 190, 1GHz to 9GHz



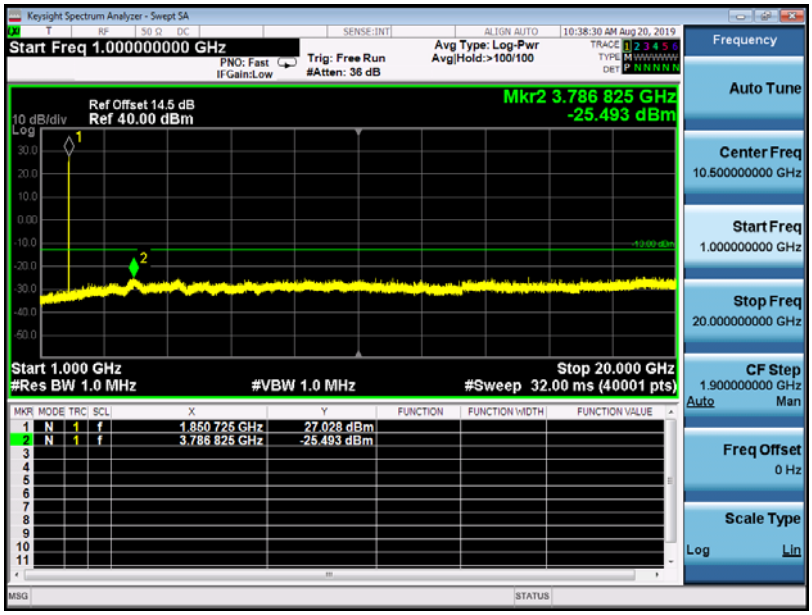
EDGE 850MHz Channel = 251, 30MHz to 1GHz



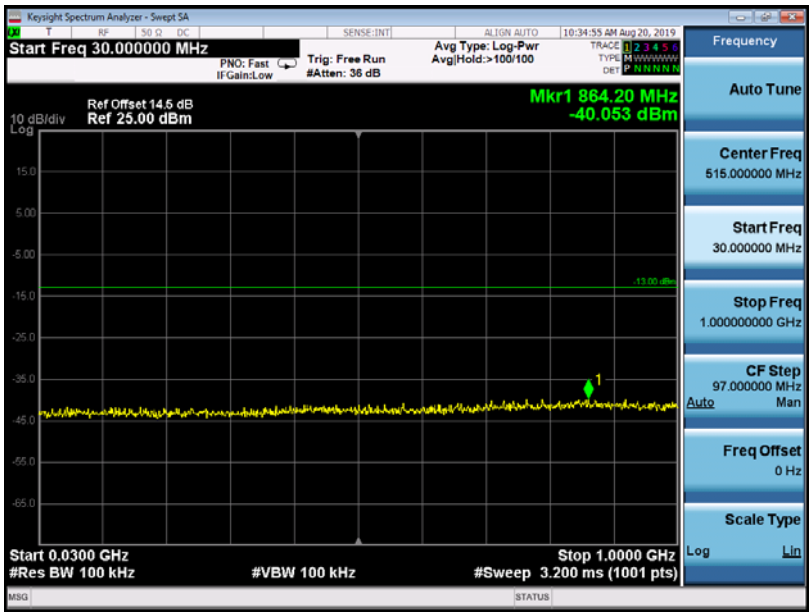
EDGE 850MHz Channel = 251, 1GHz to 9GHz



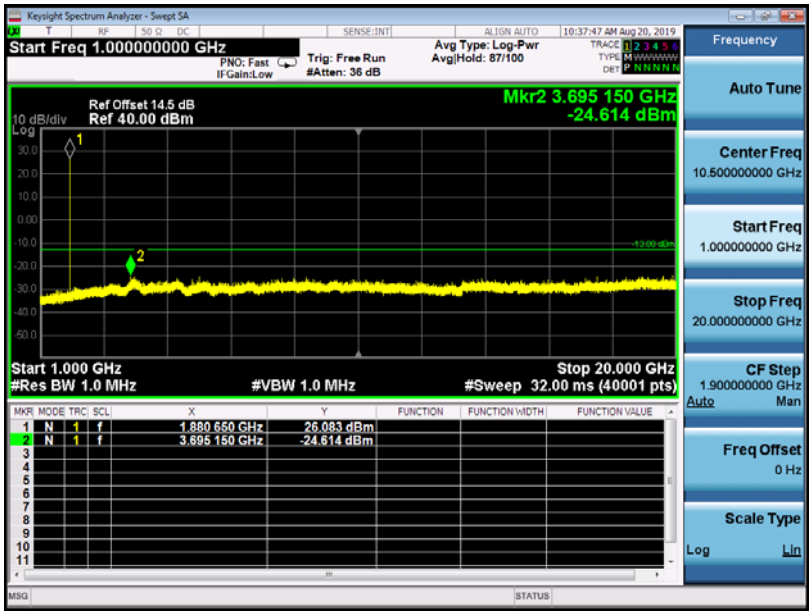
EDGE 1900MHz Channel = 512, 30MHz to 1GHz



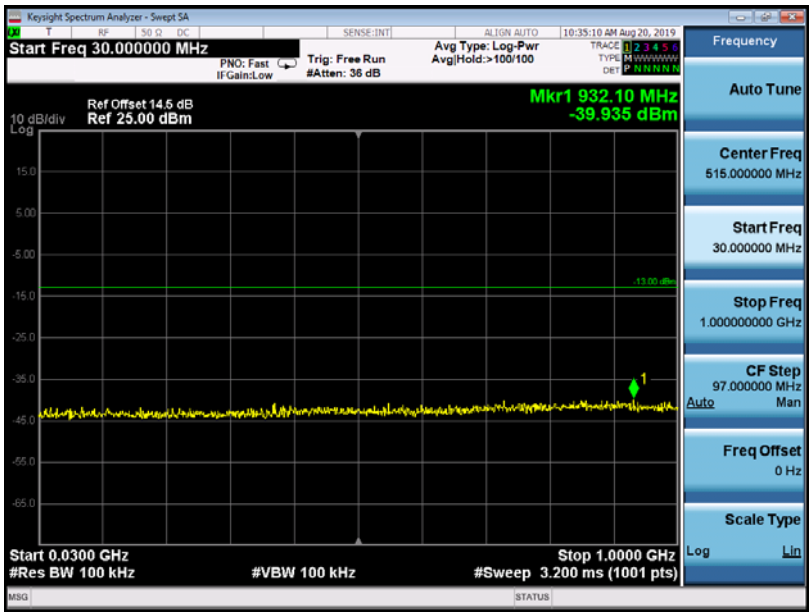
EDGE 1900MHz Channel = 512, 1GHz to 20GHz



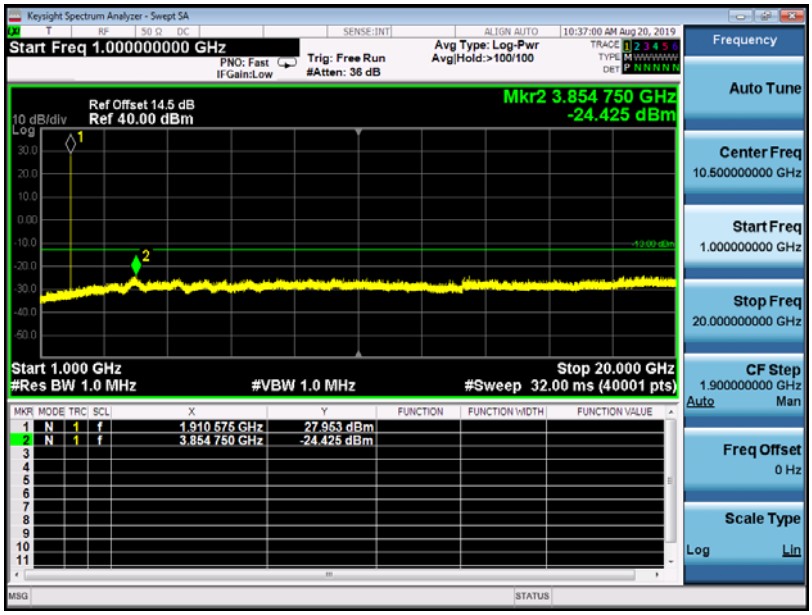
EDGE 1900MHz Channel = 661, 30MHz to 1GHz



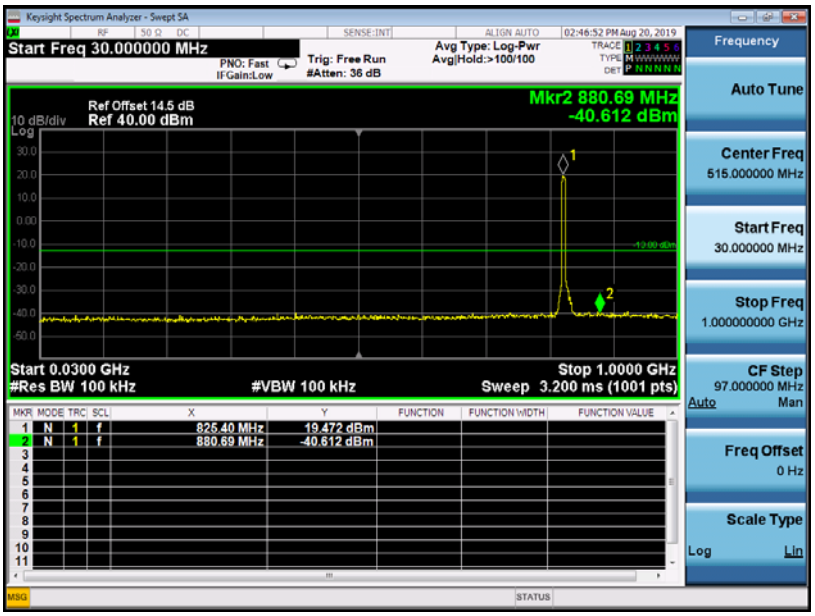
EDGE 1900MHz Channel = 661, 1GHz to 20GHz



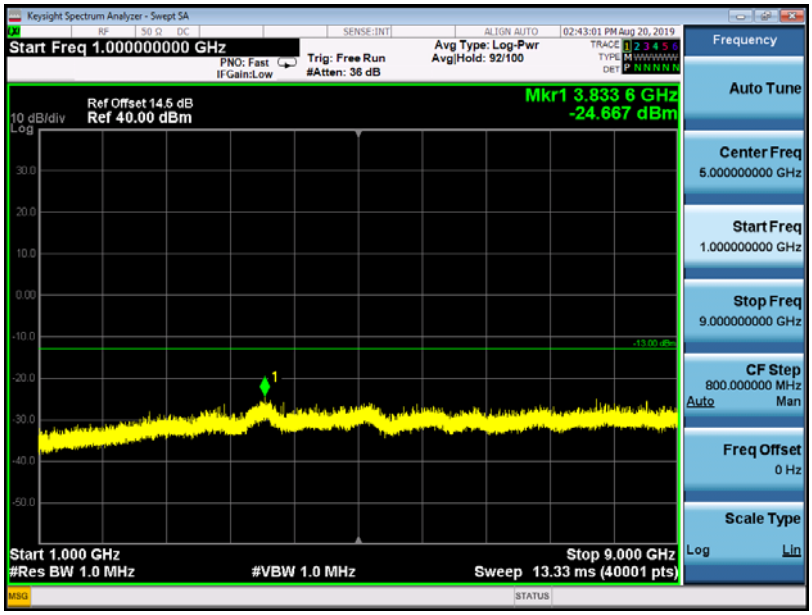
EDGE 1900MHz Channel = 810, 30MHz to 1GHz



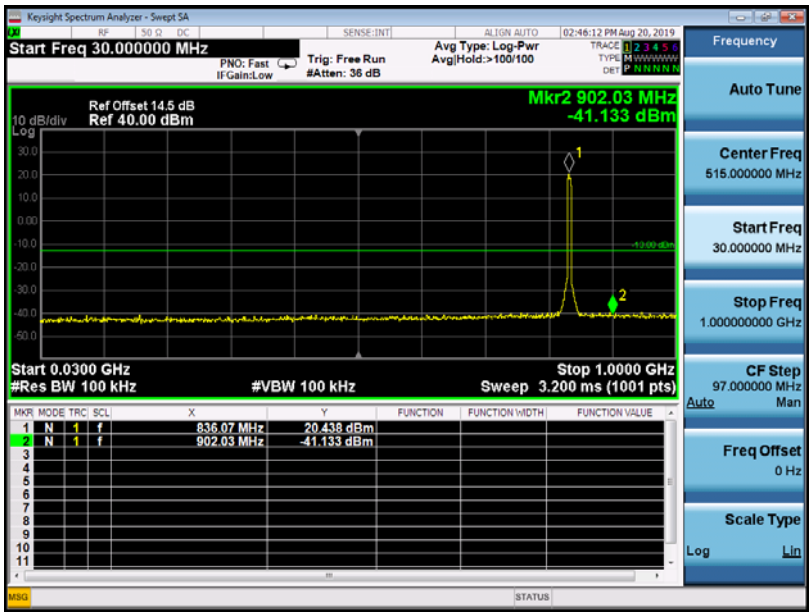
EDGE 1900MHz Channel = 810, 1GHz to 20GHz



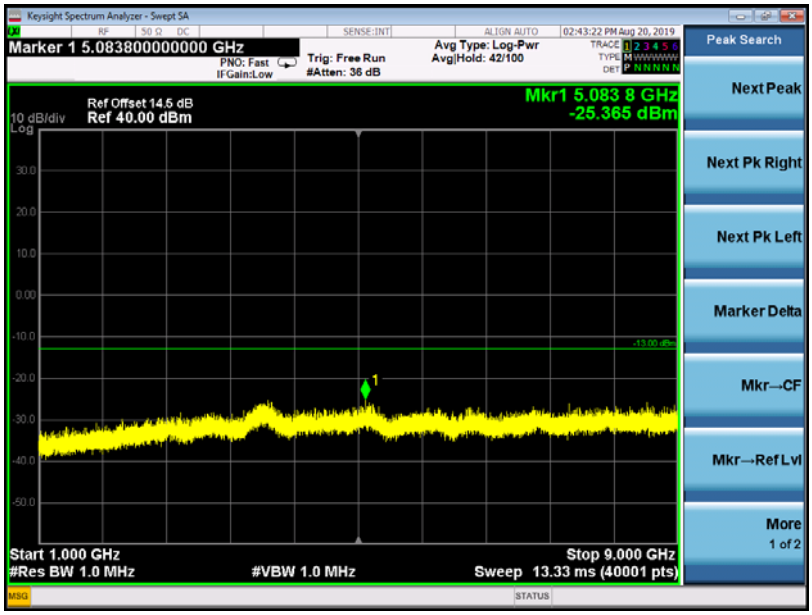
WCDMA850MHz Channel = 4132, 30MHz to 1GHz



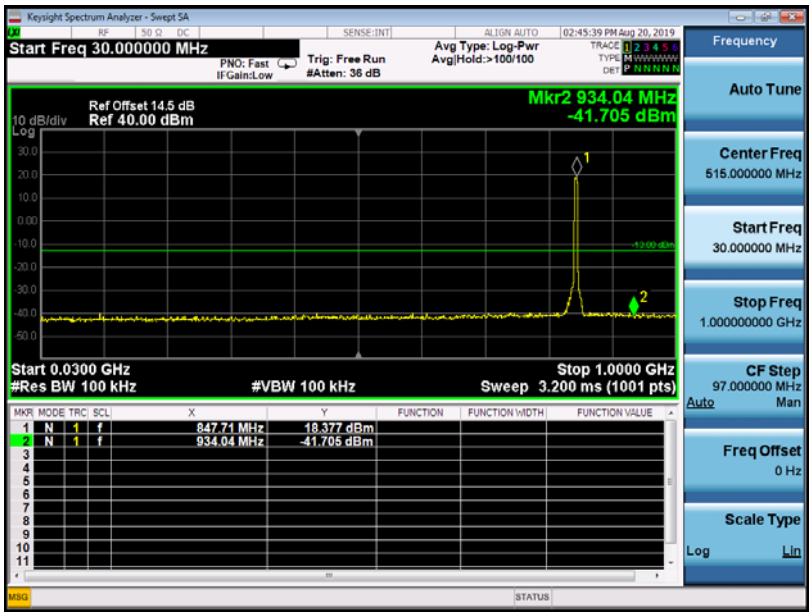
WCDMA850MHz Channel = 4132, 1GHz to 9GHz



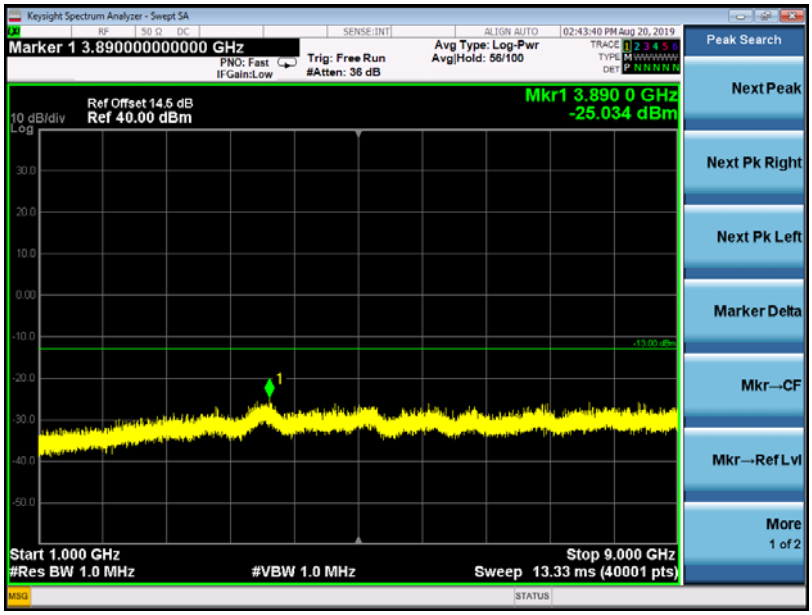
WCDMA850MHz Channel = 4183, 30MHz to 1GHz



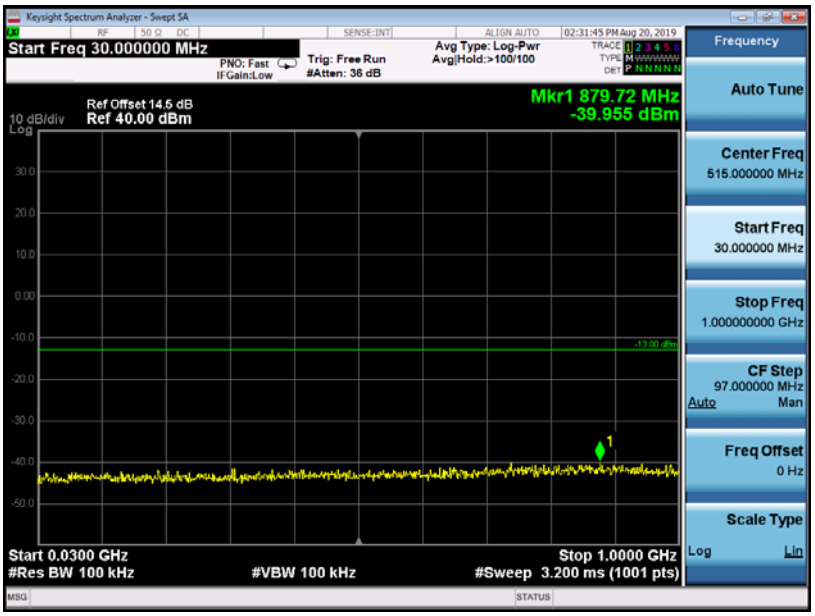
WCDMA850MHz Channel = 4183, 1GHz to 9GHz



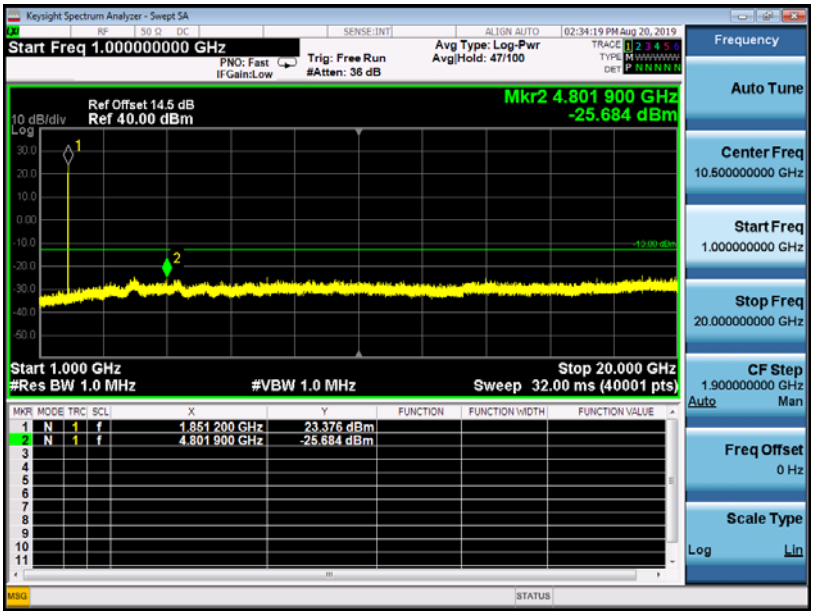
WCDMA850MHz Channel = 4233, 30MHz to 1GHz



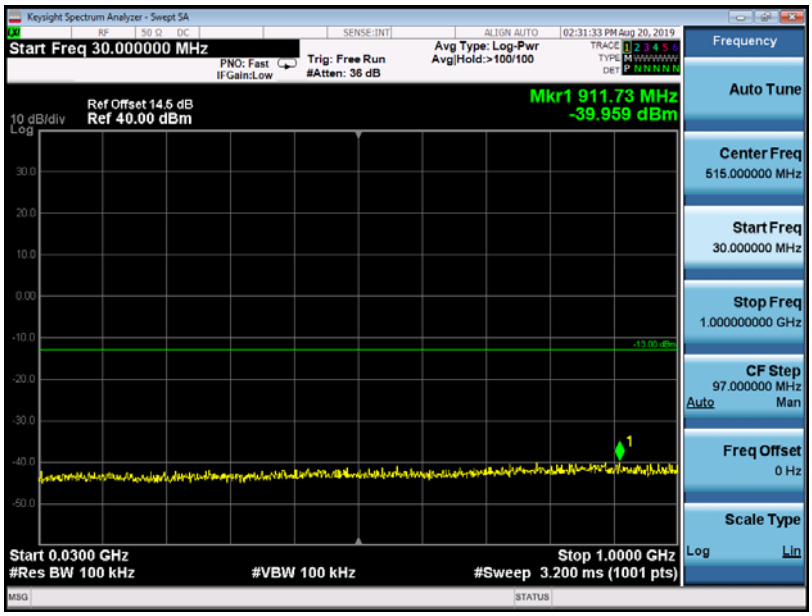
WCDMA850MHz Channel = 4233, 1GHz to 9GHz



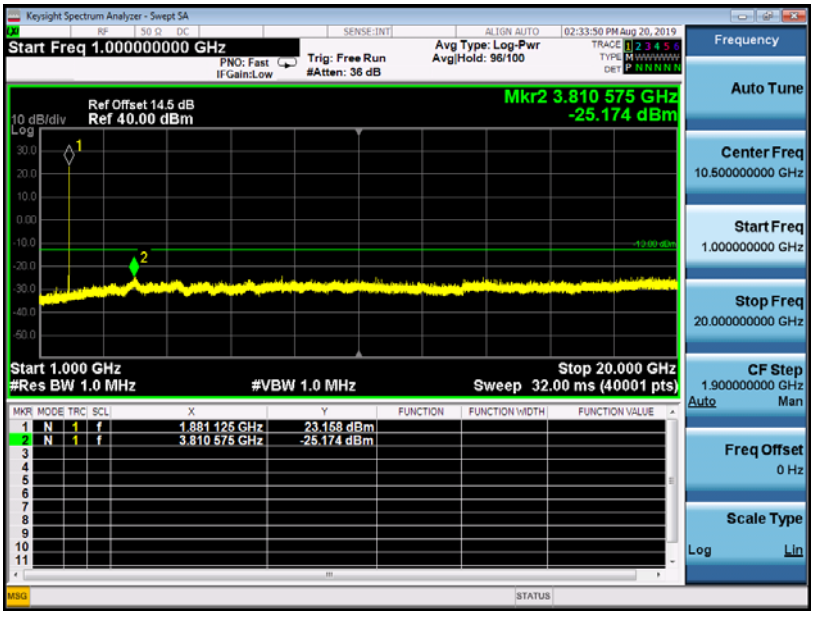
WCDMA1900MHz Channel = 9262, 30MHz to 1GHz



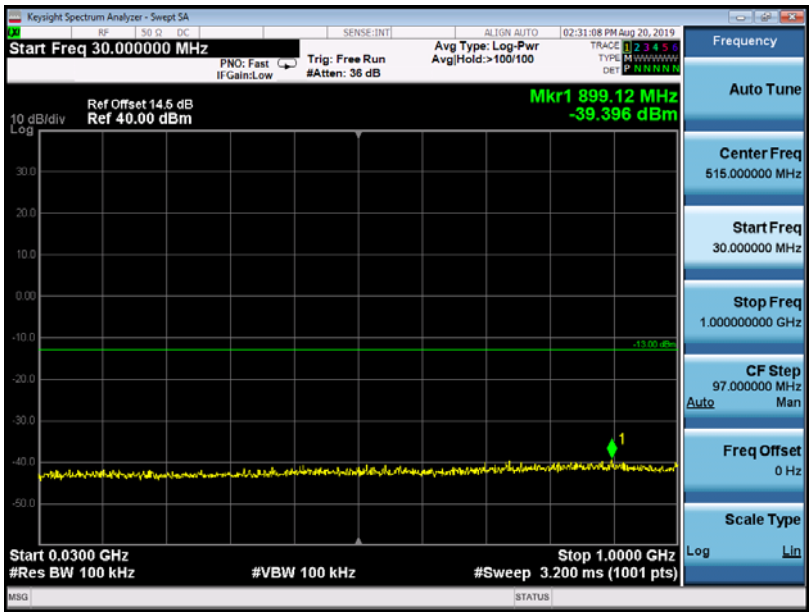
WCDMA1900MHz Channel = 9262, 1GHz to 20GHz



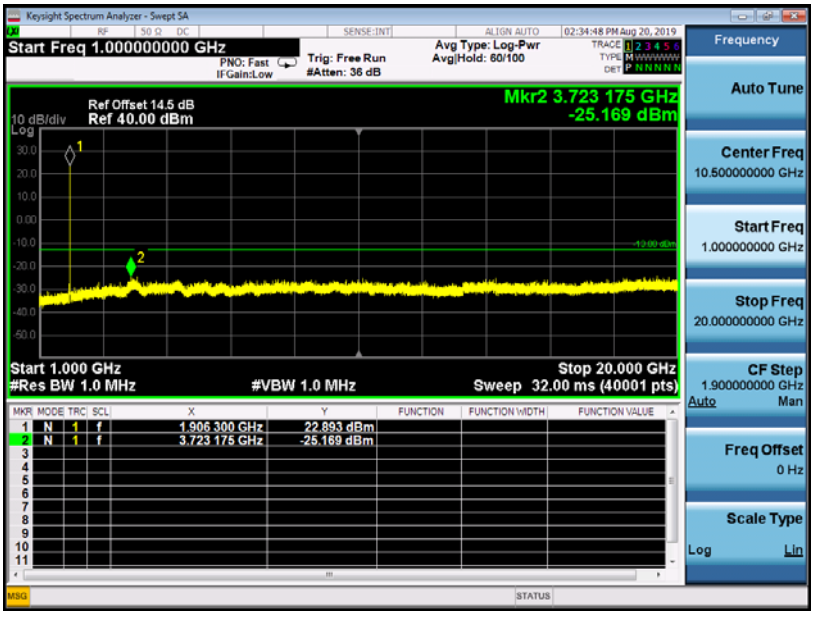
WCDMA1900MHz Channel = 9400, 30MHz to 1GHz



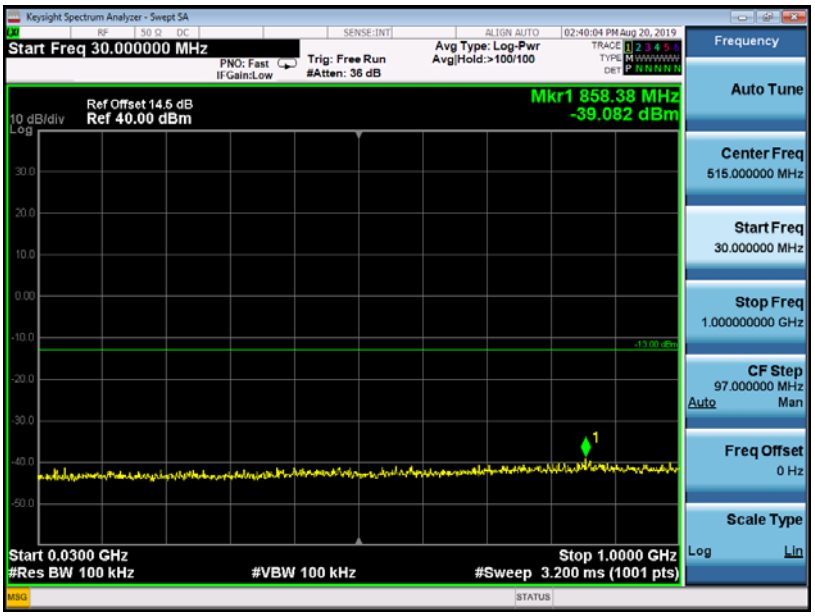
WCDMA1900MHz Channel = 9400, 1GHz to 20GHz



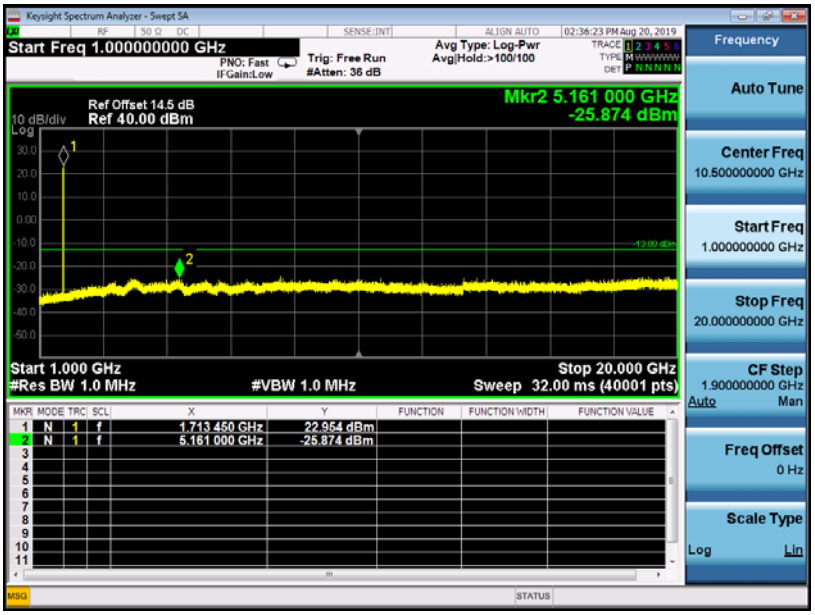
WCDMA1900MHz Channel = 9538, 30MHz to 1GHz



WCDMA1900MHz Channel = 9538 1GHz to 20GHz



WCDMA1700MHz Channel = 1312, 30MHz to 1GHz



WCDMA1700MHz Channel = 1312, 1GHz to 18GHz