

FCC RADIO TEST REPORT FCC ID: 2AELAONEULTRA

Product: Smartphone

Trade Name: OWN

Model No.: One Ultra

Serial Model: N/A

Report No.: NTEK-2016NT08198385F5

Issue Date: 21 Sep. 2016

Prepared for

Ingram Micro Chile S.A

El Rosal,4765,Huechuraba,Santiago,CL

Prepared by

NTEK TESTING TECHNOLOGY CO., LTD.

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1.)	CONDUCTED BY CRICOG EMISSION IN TANTENNA TERMINAL	



1 TEST RESULT CERTIFICATION

Applicant's name:	Ingram Micro Chile S.A	
Address:	El Rosal,4765,Huechuraba,Santiago,CL	
Manufacture's Name:	Haier International (HK) Limited	
Address:	503,Block B2, KeXing Science Park, KeYuan Road, Nanshan,	
	Shenzhen, China	
Product description		
Product name:	Smartphone	
Model and/or type reference:	One Ultra	
Serial Model:	N/A	

Measurement Procedure Used:

APPLICABLE STANDARDS				
APPLICABLE STANDARD/ TEST PROCEDURE	TEST RESULT			
47 CFR Part 2, Part 22H, Part 24E				
ANSI/ TIA/ EIA-603-D-2010	Complied			
FCC KDB 971168 D01 Power Meas. License Digital Systems v02v02				

This device described above has been tested by NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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The test results of this report relate only to the tested sample identified in this report.

Date of Test	:	19 Aug. 2016 ~ 21 Sep. 2016	
Testing Engineer	:	Eileen Wu.	
		(Eileen Liu)	
Technical Manager	:	Jason chen	
		(Jason Chen)	
Authorized Signatory	:	Sam. Chen	
	·	(Sam Chen)	



2 SUMMARY OF TEST RESULTS

FCC Part22, Subpart H/ FCC Part24, Subpart E					
FCC Rule	FCC Rule Test Item		Remark		
2.1046	Conducted Output Power	PASS			
24.232(d)	Peak-to-Average Ratio	PASS			
2.1049 22.917(b) 24.238(b)	Occupied Bandwidth	PASS			
2.1051 22.917(a) 24.238(a)	Band Edge	PASS			
22.913(a)(2)	Effective Radiated Power	PASS			
24.232(c)	Equivalent Isotropic Radiated Power	PASS			
2.1053 22.917(a) 24.238(a)	Field Strength of Spurious Radiation	PASS			
2.1055 22.355 24.235	Frequency Stability for Temperature & Voltage	PASS			
2.1051 22.917(a) 24.238(a)	Conducted Emission	PASS			

- 1. "N/A" denotes test is not applicable in this Test Report.
- 2. All test items were verified and recorded according to the standards and without any deviation during the test.
- 3. No modifications are made to the EUT during all test items.
- This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.





3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

EMC Lab. : Accredited by CNAS, 2014.09.04

The certificate is valid until 2017.09.03

The Laboratory has been assessed and proved to be in compliance with

CNAS-CL01:2006 (identical to ISO/IEC 17025:2005) The Certificate Registration Number is L5516.

Accredited by Industry Canada, August 29, 2012 The Certificate Registration Number is 9270A-1.

Accredited by FCC, September 6, 2013

The Certificate Registration Number is 238937.

Name of Firm : ShenZhen NTEK Testing Technology Co., Ltd

Site Location : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang

Street, Bao'an District, Shenzhen 518126 P.R. China.

3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.5dB



4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification					
Equipment	Smartphone				
Trade Name	OWN				
FCC ID	2AELAONEULTRA				
Model No.	One Ultra				
Serial Model	N/A				
Model Difference	N/A				
Operating Frequency	□ GSM850: TX824.2MHz~848.8MHz /RX869.2MHz~893.8MHz; □ UMTS FDD Band V: TX826.4MHz~846.6MHz /RX871.4MHz~891.6MHz; □ PCS1900: TX1850.2MHz~1909.8MHz /RX1930.2MHz~1989.8MHz; □ UMTS FDD Band II: TX1852.4MHz~1907.6MHz /RX1932.4MHz~1987.6MHz;				
Modulation					
Number of Channels	 ⊠124 Channels for GSM850; ⊠102 Channels for UMTS FDD Band V; ⊠299 Channels for PCS1900; ⊠277 Channels for UMTS FDD Band II; 				
GPRS Class					
SIM CARD	The Phone Two SIM Card sockets ⊠IMEI Code1:862794028022932 ⊠IMEI Code2:862794028022940				
Antenna Type	FPCB Antenna				
Antenna Gain	1 dBi				
	☑DC supply: DC 3.8V/2300mAh from Battery or DC 5V from Adapter.				
Power supply	⊠Adapter supply: Model:HJ-0501000E1-US Input:AC 100~240V 50/60Hz 0.2A Output:DC 5V,1A				
HW Version	W10 YK609-MB-V0.3				
SW Version	YK609_MB_W10_HK_V012				
Nata Danada a dan ara	bligation factures or apositioation substitud in Llead's Manual the CLIT is considered				

Note: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual. The High Voltage 4.2V and Low Voltage 3.2V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage.



Revision History

Report No.	Version	Description	Issued Date
NTEK-2016NT08198385F5	Rev.01	Initial issue of report	Sep 21, 2016



5 DESCRIPTION OF TEST MODES

During the testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication Tester(CMU 200) to ensure max power transmission and proper modulation. Three channels (The low channel, the middle channel and the high channel) were chosen for testing on both GPRS850 and GPRS1900 frequency band.

Note: GSM/GPRS 850, GSM/GPRS 1900, HSDPA band II, HSUPA band II, HSDPA band V, HSUPA band V modes have been tested during the test. the worst condition (GSM850, GSM1900 RMC 12.2k) be recorded in the test report if no other modes test data.

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v02r02 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 10th harmonic for GSM850/UMTS FDD Band V.
- 2. 30 MHz to 10th harmonic for GSM1900/UMTS FDD Band II.

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	For Conducted Test Cases	For Radiated Test Cases			
GSM 850	GSM Link	GSM Link			
GSM 1900 GSM Link		GSM Link			
UMTS Band II	RMC 12.2Kbps Link	RMC 12.2Kbps Link			
UMTS Band V	RMC 12.2Kbps Link	RMC 12.2Kbps Link			

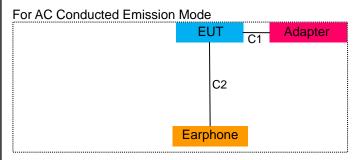
Test Frequency and Channels:

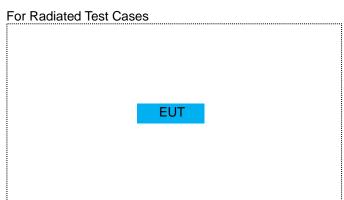
Took Frequency and Charmole.								
Frequency	☑ GSM 850		⊠GSM 1900				⊠UMTS Band V	
Band	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
CH_H	251	848.8	810	1909.8	9538	1907.6	4233	846.6
CH_M	190	836.4	661	1880.0	9400	1880.0	4183	836.4
CH_L	128	824.2	512	1850.2	9262	1852.4	4132	826.4

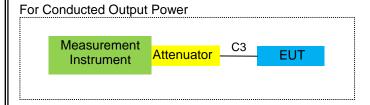


6 SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

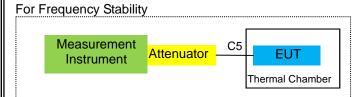






For Peak-to Average Ratio, Occupied Bandwidth, Conducted Band edge and Conducted Spurious Emission







6.2 SUPPORT EQUIPMENT

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Note
E-1	Smartphone	N/A	One Ultra	2AELAONEULTRA	EUT
E-2	Adapter	N/A	HJ-0501000E1-US	N/A	Peripherals
E-3	Earphone	N/A	L662	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	USB Cable	NO	NO	1.2m
C-2	Earphone	NO	NO	0.8m
C-3	RF Cable	NO	NO	0.5m
C-4	RF Cable	NO	NO	0.5m
C-5	RF Cable	NO	NO	0.5m

Notes:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>[Length]</code> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

	Kind of				Last	Calibrated	Calibration
Item	Equipment	Manufacturer	Type No.	Serial No.	calibration	until	period
1	MXA Signal Analyzer	Agilent	N9020A	MY49100060	2015.11.19	2016.11.18	1 year
2	Test Receiver	R&S	ESPI	101318	2016.06.07	2017.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2016.07.06	2017.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2016.06.07	2017.06.06	1 year
5	Horn Antenna	EM	EM-AH-1018 0	2011071402	2016.07.06	2017.07.05	1 year
6	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2016.07.06	2017.07.05	1 year
7	Amplifier	EM	EM-30180	060538	2016.07.06	2017.07.05	1 year
8	Loop Antenna	ARA	PLA-1030/B	1029	2016.06.08	2017.06.07	1 year
9	Power Meter	R&S	NRVS	100696	2016.07.06	2017.07.05	1 year
10	Power Sensor	R&S	URV5-Z4	0395.1619.0 5	2016.07.06	2017.07.05	1 year
11	Test Cable	N/A	R-01	N/A	2016.07.06	2017.07.05	1 year
12	Test Cable	N/A	R-02	N/A	2016.07.06	2017.07.05	1 year
13	Test Cable	N/A	R-03	N/A	2016.06.29	2017.06.28	1 year
14	Test Receiver	R&S	ESCI	101160	2016.06.06	2017.06.05	1 year
15	LISN	R&S	ENV216	101313	2016.08.24	2017.08.23	1 year
16	LISN	EMCO	3816/2	00042990	2016.08.24	2017.08.23	1 year
17	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2016.06.07	2017.06.06	1 year
18	Passive Voltage Probe	R&S	ESH2-Z3	100196	2016.06.07	2017.06.06	1 year
19	Absorbing clamp	R&S	MOS-21	100423	2016.06.08	2017.06.07	1 year
20	Test Cable	N/A	C01	N/A	2016.06.08	2017.06.07	1 year
21	Test Cable	N/A	C02	N/A	2016.06.08	2017.06.07	1 year
22	Test Cable	N/A	C03	N/A	2016.06.08	2017.06.07	1 year
23	Attenuation	MCE	24-10-34	BN9258	2016.06.08	2017.06.07	1 year
24	Spectrum Analyzer	agilent	e4440a	us44300399	2016.06.08	2017.06.07	1 year
25	test receiver	R&S	ESCI	a0304218	2016.06.08	2017.06.07	1 year
26	Communication Tester	R&S	CMU200	A0304247	2016.06.08	2017.06.07	1 year
27	Thermal Chamber	Ten Billion	TTC-B3C	TBN-960502	2016.06.08	2017.06.07	1 year

Note: Each piece of equipment is scheduled for calibration once a year.



7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC KDB 971168 D01 v02r02 Section 6.0

7.1.2 Conformance Limit

Fraguenov(MHz)	Conducted Emission Limit		
Frequency(MHz)	Quasi-peak	Average	
0.15-0.5	66-56*	56-46*	
0.5-5.0	56	46	
5.0-30.0	60	50	

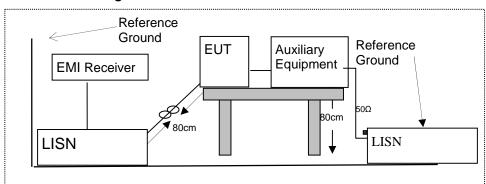
Note: 1. *Decreases with the logarithm of the frequency

- 2. The lower limit shall apply at the transition frequencies
- 3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.1.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.1.4 Test Configuration



7.1.5 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
- 5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item -EUT Test Photos.

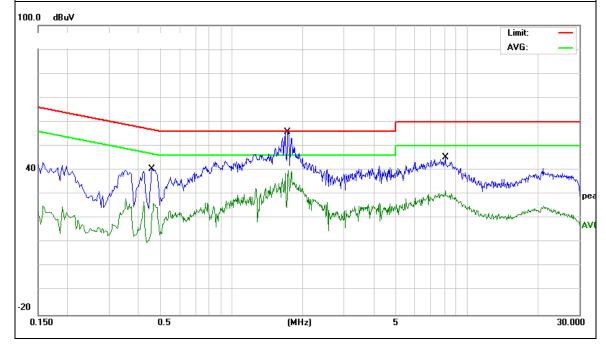


7.1.6 Test Results

EUT:	Smartphone	Model Name:	One Ultra
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	L
LIECT VALLAGE .	DC 5.0V form Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Damanlı
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.4580	30.56	9.91	40.47	56.73	-16.26	AVG
0.4580	17.00	9.91	26.91	46.73	-19.82	QP
1.7300	45.21	9.79	55.00	56.00	-1.00	QP
1.7300	29.97	9.79	39.76	46.00	-6.24	AVG
8.0938	35.34	9.86	45.20	60.00	-14.80	QP
8.0938	21.59	9.86	31.45	50.00	-18.55	AVG

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.

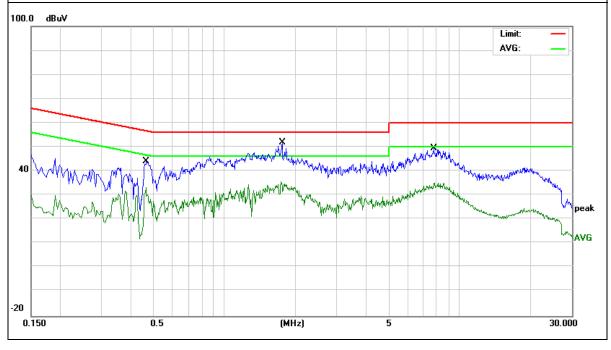




EUT:	Smartphone	Model Name:	One Ultra
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	N
<u>Test Voltage</u> :	DC 5.0V form Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domonto
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.4660	34.09	9.91	44.00	56.58	-12.58	QP
0.4660	23.35	9.91	33.26	46.58	-13.32	AVG
1.7580	42.08	9.81	51.89	56.00	-4.11	QP
1.7580	25.82	9.81	35.63	46.00	-10.37	AVG
7.7420	39.67	9.82	49.49	60.00	-10.51	QP
7.7420	25.21	9.82	35.03	50.00	-14.97	AVG

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.

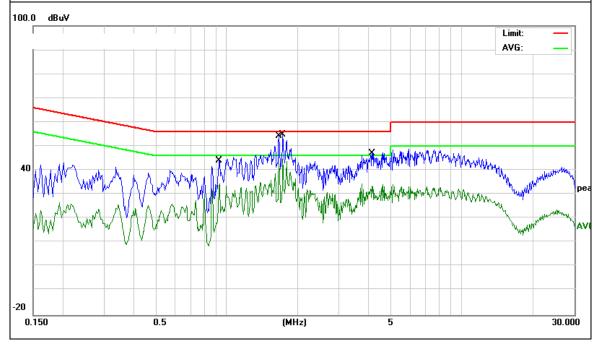




EUT:	Smartphone	Model Name:	One Ultra
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	L
LIEST VOITAGE .	DC 5.0V form Adapter AC 240V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Kemark
0.9300	34.14	9.85	43.99	56.00	-12.01	AVG
0.9300	24.48	9.85	34.33	46.00	-11.67	QP
1.6660	44.58	9.80	54.38	56.00	-1.62	QP
1.6660	32.74	9.80	42.54	46.00	-3.46	AVG
1.7340	45.03	9.79	54.82	56.00	-1.18	QP
1.7340	34.79	9.79	44.58	46.00	-1.42	AVG

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.

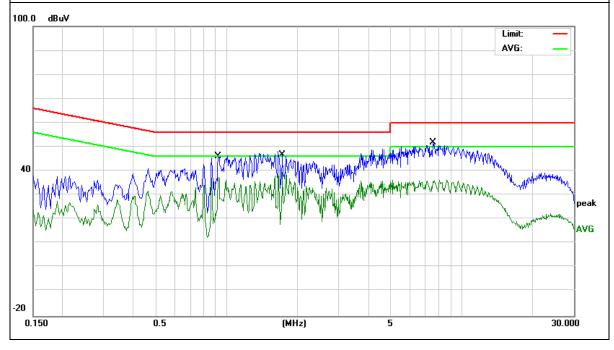




EUT:	Smartphone	Model Name:	One Ultra
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	N
Test Voltage .	DC 5.0V form Adapter AC 240V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	D1-
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.9260	36.18	9.87	46.05	56.00	-9.95	QP
0.9260	27.65	9.87	37.52	46.00	-8.48	AVG
1.7260	38.36	9.81	48.17	56.00	-7.83	QP
1.7260	29.84	9.81	39.65	46.00	-6.35	AVG
7.5379	41.89	9.82	51.71	60.00	-8.29	QP
7.5379	26.46	9.82	36.28	50.00	-13.72	AVG

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.





7.2 FIELD STRENGTH OF SPURIOUS RADIATION

7.2.1 Applicable Standard

According to FCC KDB 971168 D01 v02r02 Section 5.8 and ANSI/ TIA-603-D-2010 Section 2.2.12

7.2.2 Conformance Limit

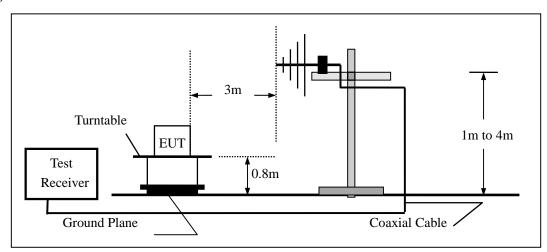
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

7.2.3 Measuring Instruments

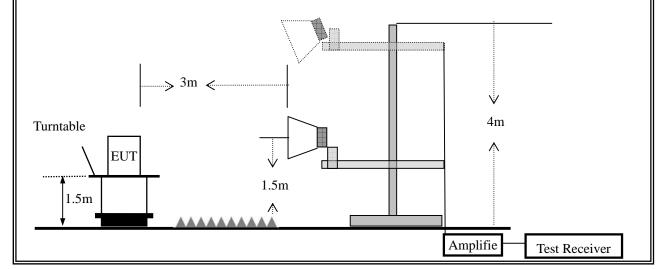
The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

(a) For radiated emissions from 30MHz to 1000MHz



(b) For radiated emissions above 1000MHz





7.2.5 Test Procedure

The measurements procedures specified in TIA-603-D-2010 were used for testing. The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment. The resolution bandwidth is set 1MHz as outlined in Part 24.238. The measurements were performed on all modes(GPRS850, GPRS1900, HSDPA band V) at 3 typical channels(the Top Channel, the Middle Channel and the Bottom Channel) for each band. Only shown the worst data.

The procedure of radiated spurious emissions is as follows:

- a) Pre-calibration With pre-calibration method, the Radiated Spurious Emissions(RSE) is calculated as, RSE=Rx(dBuV)+CL(dB)+SA(dB)+Gain(dBi)-107(dBuV to dBm)The SA is calibrated using following setup.
- b) EUT was placed on a 0.8 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the test item for emission measurements. The height of receiving antenna is 0.8m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the test item and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector and 1MHz bandwidth.

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of the PCS 1900 band (1850.2 MHz, 1880 MHz and 1909.8 MHz), GSM850 band (824.2MHz, 836.6MHz, 848.8MHz), UMTS band II(1852.4MHz, 1880MHz, 1907.6MHz), UMTS band V(826.4MHz, 835.0MHz, 846.6MHz). It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of any band into any of the other blocks.

The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established and the ARpl is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss and the air loss. The measurement results are obtained as described below: Power=PMea+ARpl

7.2.6 Test Results

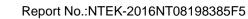
EUT:	Smartphone	Model No.:	One Ultra
Temperature:	20 ℃	Relative Humidity:	48%
I Last Muda.	GSM850/GSM1900 UMTS band II/ UMTS band V	Test By:	Eileen Liu



Radiated	Spurious	Emission

	opunous Lii		G	SM850					
Frequency (MHz)	Power (dBm)	Cable	Antenna Factor (dB)	Preamp Factor (dB)	PMea (dBm)	Limit (dBm)	Over Limit (dBm)		
		(dB)		1.400	/00 4 0 1 4 1			Polarity	
		I est	Results for (Channel 128	3/824.2 MH	<u>z</u>		T	
1648.4	-35.59	2.8	27.5	22.2	-27.49	-13	-14.49	Vertical	
1648.4	-31.14	2.8	27.5	22.2	-23.04	-13	-10.04	Horizontal	
2472.6	-30.85	2.91	27.8	19.02	-19.16	-13	-6.16	Vertical	
2472.6	-36.69	2.91	27.8	19.02	-25	-13	-12	Horizontal	
3296.8	-35.47	4.02	29.87	20.97	-22.55	-13	-9.55	Vertical	
3296.8	-31.18	4.02	29.87	20.97	-18.26	-13	-5.26	Horizontal	
	Test Results for Channel 190/836.6 MHz								
1673.2	-32.26	2.8	27.48	22.28	-24.26	-13	-11.26	Vertical	
1673.2	-35.49	2.8	27.48	22.28	-27.49	-13	-14.49	Horizontal	
2509.8	-35.94	2.91	27.7	19.41	-24.74	-13	-11.74	Vertical	
2509.8	-33.64	2.91	27.7	19.41	-22.44	-13	-9.44	Horizontal	
3346.4	-35.51	4.02	29.82	21.24	-22.91	-13	-9.91	Vertical	
3346.4	-32.27	4.02	29.82	21.24	-19.67	-13	-6.67	Horizontal	
		Test	Results for (Channel 251	/848.8 MH:	7			
1697.6	-34.91	2.8	27.42	22.42	-27.11	-13	-14.11	Vertical	
1697.6	-36.67	2.8	27.42	22.42	-28.87	-13	-15.87	Horizontal	
2546.4	-33.51	2.91	27.68	19.59	-22.51	-13	-9.51	Vertical	
2546.4	-35.09	2.91	27.68	19.59	-24.09	-13	-11.09	Horizontal	
3395.2	-36.78	4.02	29.8	21.52	-24.48	-13	-11.48	Vertical	
3395.2	-32.22	4.02	29.8	21.52	-19.92	-13	-6.92	Horizontal	

	GPRS850									
Frequency (MHz)	Power (dBm)	Cable Loss (dB)	Antenna Factor (dB)	Preamp Factor (dB)	PMea (dBm)	Limit (dBm)	Over Limit (dBm)	Polarity		
		Test	Results for (Channel 128	/824.2 MH	Z		,		
1648.4	-36.69	2.8	27.5	22.2	-28.59	-13	-15.59	Vertical		
1648.4	-35.48	2.8	27.5	22.2	-27.38	-13	-14.38	Horizontal		
2472.6	-38.97	2.91	27.8	19.02	-27.28	-13	-14.28	Vertical		
2472.6	-39.64	2.91	27.8	19.02	-27.95	-13	-14.95	Horizontal		
3296.8	-37.74	4.02	29.87	20.97	-24.82	-13	-11.82	Vertical		
3296.8	-38.96	4.02	29.87	20.97	-26.04	-13	-13.04	Horizontal		
		Test	Results for (Channel 190	/836.6 MH	<u>z</u>				
1673.2	-36.41	2.8	27.48	22.28	-28.41	-13	-15.41	Vertical		
1673.2	-36.65	2.8	27.48	22.28	-28.65	-13	-15.65	Horizontal		





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2509.8	-39.98	2.91	27.7	19.41	-28.78	-13	-15.78	Vertical
2509.8	-42.52	2.91	27.7	19.41	-31.32	-13	-18.32	Horizontal
3346.4	-44.46	4.02	29.82	21.24	-31.86	-13	-18.86	Vertical
3346.4	-40.17	4.02	29.82	21.24	-27.57	-13	-14.57	Horizontal
		Test	Results for (Channel 251	/848.8 MHz	<u>z</u>		
1697.6	-37.97	2.8	27.42	22.42	-30.17	-13	-17.17	Vertical
1697.6	-36.52	2.8	27.42	22.42	-28.72	-13	-15.72	Horizontal
2546.4	-40.41	2.91	27.68	19.59	-29.41	-13	-16.41	Vertical
2546.4	-39.69	2.91	27.68	19.59	-28.69	-13	-15.69	Horizontal
3395.2	-42.25	4.02	29.8	21.52	-29.95	-13	-16.95	Vertical
3395.2	-44.47	4.02	29.8	21.52	-32.17	-13	-19.17	Horizontal

			EC	SPRS850				
Frequency (MHz)	Power (dBm)	Cable Loss (dB)	Antenna Factor (dB)	Preamp Factor (dB)	PMea (dBm)	Limit (dBm)	Over Limit (dBm)	Polarity
		` '	Results for (Channel 128	1 8/824.2 MH:	<u> </u>		Polarity
1648.4	-31.52	2.8	27.5	22.2	-23.42	-13	-10.42	Vertical
1648.4	-30.34	2.8	27.5	22.2	-22.24	-13	-9.24	Horizontal
2472.6	-33.44	2.91	27.8	19.02	-21.75	-13	-8.75	Vertical
2472.6	-35.59	2.91	27.8	19.02	-23.9	-13	-10.9	Horizontal
3296.8	-34.17	4.02	29.87	20.97	-21.25	-13	-8.25	Vertical
3296.8	-35.62	4.02	29.87	20.97	-22.7	-13	-9.7	Horizontal
		Test	Results for (Channel 190	/836.6 MH	Z		
1673.2	-32.25	2.8	27.48	22.28	-24.25	-13	-11.25	Vertical
1673.2	-35.58	2.8	27.48	22.28	-27.58	-13	-14.58	Horizontal
2509.8	-29.98	2.91	27.7	19.41	-18.78	-13	-5.78	Vertical
2509.8	-36.46	2.91	27.7	19.41	-25.26	-13	-12.26	Horizontal
3346.4	-33.57	4.02	29.82	21.24	-20.97	-13	-7.97	Vertical
3346.4	-31.21	4.02	29.82	21.24	-18.61	-13	-5.61	Horizontal
		Test	Results for (Channel 251	/848.8 MH	Z		
1697.6	-33.34	2.8	27.42	22.42	-25.54	-13	-12.54	Vertical
1697.6	-28.95	2.8	27.42	22.42	-21.15	-13	-8.15	Horizontal
2546.4	-35.46	2.91	27.68	19.59	-24.46	-13	-11.46	Vertical
2546.4	-32.26	2.91	27.68	19.59	-21.26	-13	-8.26	Horizontal
3395.2	-36.67	4.02	29.8	21.52	-24.37	-13	-11.37	Vertical
3395.2	-34.41	4.02	29.8	21.52	-22.11	-13	-9.11	Horizontal



GSM1900									
Frequency (MHz)	Power (dBm)	Cable Loss (dB)	Antenna Factor (dB)	Preamp Factor (dB)	PMea (dBm)	Limit (dBm)	Over Limit (dBm)	Polarity	
		Test I	Results for C	hannel 512	/1850.2MH	Z			
3700.4	-37.4	4.04	33.51	24.13	-23.98	-13	-10.98	Vertical	
3700.4	-34.56	4.04	33.51	24.13	-21.14	-13	-8.14	Horizontal	
5550.6	-36.95	5.24	35.84	23.96	-19.83	-13	-6.83	Vertical	
5550.6	-41.12	5.24	35.84	23.96	-24	-13	-11	Horizontal	
		Test I	Results for C	Channel 661	/1880.0MH	Z			
3760	-35.55	4.04	33.56	23.84	-21.79	-13	-8.79	Vertical	
3760	-34.18	4.04	33.56	23.84	-20.42	-13	-7.42	Horizontal	
5640	-36.59	5.24	35.91	23.59	-19.03	-13	-6.03	Vertical	
5640	-38.86	5.24	35.91	23.59	-21.3	-13	-8.3	Horizontal	
Test Results for Channel 810/1909.8MHz									
3819.6	-36.67	4.04	34	24.17	-22.8	-13	-9.8	Vertical	
3819.6	-37.85	4.04	34	24.17	-23.98	-13	-10.98	Horizontal	
5729.4	-36.56	5.24	36.04	25.86	-21.14	-13	-8.14	Vertical	
5729.4	-34.41	5.24	36.04	29.09	-22.22	-13	-9.22	Horizontal	

	GPRS1900									
Frequency (MHz)	Power (dBm)	Cable Loss (dB)	Antenna Factor (dB)	Preamp Factor (dB)	PMea (dBm)	Limit (dBm)	Over Limit (dBm)	Polarity		
		, ,	esults for (Channel 512	2/1850.2MF	lz		1 Oldiny		
3700.4	-35.58	4.04	33.51	24.13	-22.16	-13	-9.16	Vertical		
3700.4	-36.65	4.04	33.51	24.13	-23.23	-13	-10.23	Horizontal		
5550.6	-36.96	5.24	35.84	23.96	-19.84	-13	-6.84	Vertical		
5550.6	-40.21	5.24	35.84	23.96	-23.09	-13	-10.09	Horizontal		
		Test R	esults for (Channel 66'	1/1880.0MF	łz				
3760	-35.58	4.04	33.56	23.84	-21.82	-13	-8.82	Vertical		
3760	-33.52	4.04	33.56	23.84	-19.76	-13	-6.76	Horizontal		
5640	-37.66	5.24	35.91	23.59	-20.1	-13	-7.1	Vertical		
5640	-40.03	5.24	35.91	23.59	-22.47	-13	-9.47	Horizontal		
	Test Results for Channel 810/1909.8MHz									
3819.6	-36.59	4.04	34	24.17	-22.72	-13	-9.72	Vertical		
3819.6	-37.64	4.04	34	24.17	-23.77	-13	-10.77	Horizontal		
5729.4	-34.49	5.24	36.04	25.86	-19.07	-13	-6.07	Vertical		
5729.4	-34.52	5.24	36.04	29.09	-22.33	-13	-9.33	Horizontal		





			EG	PRS1900				
Frequency (MHz)	Power (dBm)	Cable Loss (dB)	Antenna Factor (dB)	Preamp Factor (dB)	PMea (dBm)	Limit (dBm)	Over Limit (dBm)	Polarity
		Test R	esults for (Channel 51	2/1850.2MH	łz		1 Clarity
3700.4	-35.61	4.04	33.51	24.13	-22.19	-13	-9.19	Vertical
3700.4	-36.69	4.04	33.51	24.13	-23.27	-13	-10.27	Horizontal
5550.6	-37.84	5.24	35.84	23.96	-20.72	-13	-7.72	Vertical
5550.6	-41.46	5.24	35.84	23.96	-24.34	-13	-11.34	Horizontal
		Test R	esults for (Channel 66	1/1880.0MF	łz		
3760	-36.65	4.04	33.56	23.84	-22.89	-13	-9.89	Vertical
3760	-37.74	4.04	33.56	23.84	-23.98	-13	-10.98	Horizontal
5640	-37.89	5.24	35.91	23.59	-20.33	-13	-7.33	Vertical
5640	-40.13	5.24	35.91	23.59	-22.57	-13	-9.57	Horizontal
	Test Results for Channel 810/1909.8MHz							
3819.6	-40.11	4.04	34	24.17	-26.24	-13	-13.24	Vertical
3819.6	-39.98	4.04	34	24.17	-26.11	-13	-13.11	Horizontal
5729.4	-36.67	5.24	36.04	25.86	-21.25	-13	-8.25	Vertical
5729.4	-32.25	5.24	36.04	29.09	-20.06	-13	-7.06	Horizontal

	Test Results for Channel 9262/1852.4MHz								
Frequency (MHz)	Power (dBm)	Cable Loss (dB)	Antenna Factor (dB)	Preamp Factor (dB)	PMea (dBm)	Limit (dBm)	Over Limit (dBm)	Polarity	
3700.8	-35.52	4.04	33.51	24.13	-22.1	-13	-9.1	Horizontal	
3700.8	-37.74	4.04	33.51	24.13	-24.32	-13	-11.32	Vertical	
5551.2	-36.65	5.24	35.84	23.96	-19.53	-13	-6.53	Vertical	
5551.2	-50.23	5.24	35.84	23.96	-33.11	-13	-20.11	Horizontal	
	Test Results for Channel 9400/1880MHz								
3760	-40.11	4.04	33.56	23.84	-26.35	-13	-13.35	Horizontal	
3760	-39.98	4.04	33.56	23.84	-26.22	-13	-13.22	Vertical	
5640	-46.85	5.24	35.91	23.59	-29.29	-13	-16.29	Vertical	
5640	-41.23	5.24	35.91	23.59	-23.67	-13	-10.67	Horizontal	
		Test Re	sults for C	hannel 953	8/1907.6M	Hz			
3819.2	-37.78	4.04	34	24.17	-23.91	-13	-10.91	Horizontal	
3819.2	-41.45	4.04	34	24.17	-27.58	-13	-14.58	Vertical	
5728.8	-46.59	5.24	36.04	25.86	-31.17	-13	-18.17	Vertical	
5728.8	-38.85	5.24	36.04	29.09	-26.66	-13	-13.66	Horizontal	



Test Results for Channel 4233/846.6MHz WCDMA Band V								
	Test Re			33/846.6MF	iz	1		A Band V
Frequency	Power	Cable	Antenna Factor	Preamp Factor	PMea	Limit	Over Limit	
(MHz)	(dBm)	Loss (dB)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	Dolority
1673.2	-32.22	2.8	27.5	22.2	-24.12	-13	-11.12	Polarity Vertical
1673.2	-35.59	2.8	27.5	22.2	-27.49	-13	-14.49	Horizontal
2509.8	-41.44	2.91	27.8	19.02	-29.75	-13	-16.75	Horizontal
2509.8	-36.69	2.91	27.8	19.02	-25	-13	-12	Vertical
3346.4	-36.51	4.02	29.87	20.97	-23.59	-13	-10.59	Horizontal
3346.4	-35.28	4.02	29.87	20.97	-22.36	-13	-9.36	Vertical
	Test Results for Channel 4182/836.4MHz							
1672.8	-33.67	2.8	27.5	22.2	-25.57	-13	-12.57	Vertical
1672.8	-32.26	2.8	27.5	22.2	-24.16	-13	-11.16	Horizontal
2509.2	-36.95	2.91	27.8	19.02	-25.26	-13	-12.26	Horizontal
2509.2	-31.14	2.91	27.8	19.02	-19.45	-13	-6.45	Vertical
3345.6	-35.91	4.02	29.87	20.97	-22.99	-13	-9.99	Horizontal
3345.6	-33.67	4.02	29.87	20.97	-20.75	-13	-7.75	Vertical
		Test Re	esults for C	hannel 41	32/826.4M	Hz		
1652.8	-32.15	2.8	27.5	22.2	-24.05	-13	-11.05	Vertical
1652.8	-35.52	2.8	27.5	22.2	-27.42	-13	-14.42	Horizontal
2479.2	-32.28	2.91	27.8	19.02	-20.59	-13	-7.59	Horizontal
2479.2	-30.29	2.91	27.8	19.02	-18.6	-13	-5.6	Vertical
3305.6	-34.67	4.02	29.87	20.97	-21.75	-13	-8.75	Horizontal
3305.6	-36.65	4.02	29.87	20.97	-23.73	-13	-10.73	Vertical



7.3 EFFECTIVE RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER

7.3.1 Applicable Standard

According to FCC KDB 971168 D01 v02r02 Section 5.2.1/ Section 5.2.2.2 and ANSI/ TIA-603-D-2010 Section 2.2.17

7.3.2 Conformance Limit

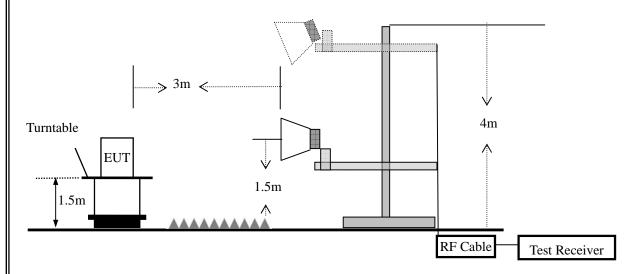
The substitution method, in ANSI / TIA / EIA-603-D-2010, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r02. The ERP of mobile transmitters must not exceed 7 Watts (Cellular Band) and the EIRP of mobile transmitters are limited to 2 Watts (PCS Band).

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Configuration

(a) For E.R.P and E.I.R.P Measurements



7.3.5 Test Procedure

The measurements procedures specified in TIA-603-D-2010 were applied.

In an anechoic antenna test chamber, a half-wave dipole antenna for the frequency band of interest is placed at the reference centre of the chamber. An RF Signal source for the frequency band of interest is connected to the dipole with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A known (measured) power (Pin) is applied to the input of the dipole, and the power received (Pr) at the chamber's probe antenna is recorded.

The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established as ARpl=Pin + 2.15 - Pr. The ARpl is the attenuation of "reference path loss", and including the gain of receive antenna, the cable loss and the air loss. The measurement results are obtained as described below: Power=PMea+ARpl

The EUT is substituted for the dipole at the reference centre of the chamber and a scan is performed to obtain the radiation pattern.



From the radiation pattern, the co-ordinates where the maximum antenna gain occurs are identified.

The EUT is then put into continuously transmitting mode at its maximum power level.

Power mode measurements are performed with the receiving antenna placed at the coordinates determined in Step 3 to determine the output power as defined in Rule 24.232 (b) and (c). The "reference path loss" from Step1 is added to this result.

This value is EIRP since the measurement is calibrated using a half-wave dipole antenna of known gain (2.15 dBi) and known input power (Pin).

ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi.

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

Substitution antenna and Receiving Antenna:

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Character	Note
1	Bilog Antenna	TESEQ	CBL6111D	31216	30MHz~2GHz	Receiving Antenna
2	Horn Antenna	EM	EM-AH-10180	2011071402	1GHz~18GHz	Receiving Antenna
3	Bilog Antenna	TESEQ	CBL6111D	31216	30MHz~2GHz	Substitution antenna
4	Horn Antenna	EM	EM-AH-10180	2011071402	1GHz~18GHz	Substitution antenna

Use the following spectrum analyzer settings:

556 the following spectrum analyzer settings.								
	GSM/GPRS	UMTS band						
Span	500KHz	10MHz						
RBW	10KHz	300KHz						
VBW	30KHz	1MHz						
Detector	RMS	RMS						
Trace	Average	Average						
Average Type	Power	Power						
Sweep Count	100	100						

7.3.6 Test Results

EUT:	Smartphone	Model No.:	One Ultra
Temperature:	20 ℃	Relative Humidity:	48%
LL Det IVIOND.	GSM850/GSM1900 UMTS band II/ UMTS band V	Test By:	Eileen Liu



■ Effective Radiated Power

		Radia	ted Pov	ver (ERF) for GSM8	350		
Frequency		PMea	Pcl	PAg	Ga	Correction	ERP	ERP
(MHz)		(dBm)	(dB)	(dB)	Antenna Gain	(dB)	(dBm)	(W)
	Polarization				(dB)			
824.2	Н	-16.52	2.11	-52.73	0.87	2.15	31.08	1.2823
836.6	Н	-16.14	2.13	-52.73	0.93	2.15	31.38	1.3740
848.8	Н	-16.75	2.13	-52.73	0.97	2.15	30.73	1.1830
824.2	V	-17.1	2.11	-52.73	0.87	2.15	30.5	1.1220
836.6	V	-16.95	2.13	-52.73	0.93	2.15	30.57	1.1402
848.8	V	-16.23	2.13	-52.73	0.97	2.15	31.25	1.3335

	Radiated Power (ERP) for GPRS850							
Frequency		PMea	Pcl	PAg	Ga Antenna	Correction	ERP	ERP
(MHz)		(dBm)	(dB)	(dB)	Gain	(dB)	(dBm)	(W)
	Polarization				(dB)			
824.2	Н	-16.28	2.11	-52.73	0.87	2.15	31.32	1.3552
836.6	Н	-16.22	2.13	-52.73	0.93	2.15	31.3	1.3490
848.8	Н	-16.59	2.13	-52.73	0.97	2.15	30.89	1.2274
824.2	V	-16.52	2.11	-52.73	0.87	2.15	31.08	1.2823
836.6	V	-16.47	2.13	-52.73	0.93	2.15	31.05	1.2735
848.8	V	-16.23	2.13	-52.73	0.97	2.15	31.25	1.3335

		Radiate	ed Powe	er (ERP)	for EGPRS	850		
Frequency		PMea	Pcl	PAg	Ga	Correction	ERP	ERP
(MHz)	Polarization	(dBm)	(dB)	(dB)	Antenna Gain	(dB)	(dBm)	(W)
					(dB)			
824.2	Н	-19.85	2.11	-52.73	0.87	2.15	27.75	0.5957
836.6	Н	-20.43	2.13	-52.73	0.93	2.15	27.09	0.5117
848.8	Н	-19.85	2.13	-52.73	0.97	2.15	27.63	0.5794
824.2	V	-19.79	2.11	-52.73	0.87	2.15	27.81	0.6039
836.6	V	-20.04	2.13	-52.73	0.93	2.15	27.48	0.5598
848.8	V	-19.52	2.13	-52.73	0.97	2.15	27.96	0.6252



-								
	Radiated Power (ERP) for UMTS band V							
Frequency		PMea	Pcl	PAg	Ga	Correction	ERP	ERP
(MHz)	Polarization	(dBm)	(dB)	(dB)	Antenna Gain (dB)	(dB)	(dBm)	(W)
824.2	Н	-26.95	2.11	-52.73	0.87	2.15	20.65	0.1161
836.6	Н	-26.11	2.13	-52.73	0.93	2.15	21.41	0.1384
848.8	Н	-26.15	2.13	-52.73	0.97	2.15	21.33	0.1358
824.2	V	-26.04	2.11	-52.73	0.87	2.15	21.56	0.1432
836.6	V	-26.58	2.13	-52.73	0.93	2.15	20.94	0.1242
848.8	V	-26.29	2.13	-52.73	0.97	2.15	21.19	0.1315

Note:

The cable loss (PcI) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded

Peak EIRP(dBm)= PMea-PcI-PAg-Ga
■ Effective Isotropic Radiated Power

	Radiated Power (E.I.R.P) for GSM 1900 MHZ						
Frequency	Polarization	PMea	Pcl	PAg	Ga	EIRP	EIRP
(MHz)		(dBm)	(dB)	(dB)	Antenna Gain (dB)	(dBm)	(W)
1850.2	Н	-21.14	3.76	-48.53	-4.72	28.35	0.6839
1880	Н	-22.25	3.91	-50.53	-4.59	28.96	0.7870
1909.8	Н	-21.57	3.93	-50.53	-4.38	29.41	0.8730
1850.2	V	-21.18	3.76	-48.53	-4.72	28.31	0.6776
1880	V	-21.18	3.91	-50.53	-4.59	30.03	1.0069
1909.8	V	-22.22	3.93	-50.53	-4.38	28.76	0.7516

	Radiated Power (E.I.R.P) for GPRS 1900 MHZ						
Frequency	Polarization	PMea	Pcl	PAg	Ga	EIRP	EIRP
(MHz)		(dBm)	(dB)	(dB)	Antenna Gain (dB)	(dBm)	(W)
1850.2	Н	-21.54	3.76	-48.53	-4.72	27.95	0.6237
1880	Н	-22.47	3.91	-50.53	-4.59	28.74	0.7482
1909.8	Н	-22.96	3.93	-50.53	-4.38	28.02	0.6339
1850.2	V	-22.27	3.76	-48.53	-4.72	27.22	0.5272
1880	V	-22.64	3.91	-50.53	-4.59	28.57	0.7194
1909.8	V	-22.89	3.93	-50.53	-4.38	28.09	0.6442



	Radiated Power (E.I.R.P) for EGPRS 1900 MHZ						
Frequency	Polarization	PMea	Pcl	PAg	Ga	EIRP	EIRP
(MHz)		(dBm)	(dB)	(dB)	Antenna Gain	(dBm)	(W)
					(dB)		
1850.2	Н	-24.14	3.76	-48.53	-4.72	25.35	0.3428
1880	Н	-24.85	3.91	-50.53	-4.59	26.36	0.4325
1909.8	Н	-25.31	3.93	-50.53	-4.38	25.67	0.3690
1850.2	V	-25.19	3.76	-48.53	-4.72	24.3	0.2692
1880	V	-25.76	3.91	-50.53	-4.59	25.45	0.3508
1909.8	V	-25.64	3.93	-50.53	-4.38	25.34	0.3420

	Radiated Power (E.I.R.P) for UMTS band II						
Frequency	Polarization	PMea	Pcl	PAg	Ga	EIRP	EIRP
(MHz)		(dBm)	(dB)	(dB)	Antenna Gain (dB)	(dBm)	(W)
1852.4	Н	-28.65	3.76	-48.53	-4.72	20.84	0.1213
1880	Н	-30.19	3.91	-50.53	-4.59	21.02	0.1265
1907.6	Н	-29.59	3.93	-50.53	-4.38	21.39	0.1377
1852.4	V	-29.41	3.76	-48.53	-4.72	20.08	0.1019
1880	V	-29.53	3.91	-50.53	-4.59	21.68	0.1472
1907.6	V	-29.61	3.93	-50.53	-4.38	21.37	0.1371

Note:

The cable loss (PcI) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test

Peak EIRP(dBm)= PMea-Pcl-PAg-Ga.



7.4 CONDUCTED OUTPUT POWER

7.4.1 Applicable Standard

According to FCC Part 2.1046 and FCC Part 22.913(a)(2) and FCC Part 24.232(c) and FCC KDB 971168 D01 v02r02 Section 5.2

7.4.2 Conformance Limit

Extend coverage on a secondary basis into cellular unserved areas, as those areas are defined in §22.949, the ERP of base transmitters and cellular repeaters of such systems must not exceed 1000 Watts. The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts(38.5dBm).

Mobile and portable stations are limited to 2 watts (33dBm)EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications..

7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

Connect the EUT to Universal Radio Communication Tester CMU200 or CMU500 via the antenna connector. A call is set up by the SS according to the generic call set up procedure on a channel with ARFCN in the ARFCN range, power control level set to Max power. The frequency band is set as selected frequency,

The RF output of the transmitter was connected to base station simulator.

Set EUT at maximum average power by base station simulator.

Set RBW = 1-5% of the OBW, not to exceed 1 MHz.

Set VBW ≥ 3 x RBW.

Number of points in sweep \geq 2 x span / RBW. (This gives bin-to-bin spacing \leq RBW/2, so that narrowband signals are not lost between frequency bins.)

Sweep time = auto.

Detector = RMS (power averaging).

Set sweep trigger to "free run".

Trace average at least 100 traces in power averaging (i.e., RMS) mode; however, the number of traces to be averaged shall be increased above 100 as needed such that the average accurately represents the true average over the on and off periods of the transmitter.

Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

Add 10 \log (1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add 10 \log (1/0.25) = 6 dB if the duty cycle is a constant 25%.

Measure lowest, middle, and highest channels for each bandwidth and different modulation.

Measure and record the results in the test report.



7.4.6 Test Results

EUT:	Smartphone	Model No.:	One Ultra
Temperature:	20 ℃	Relative Humidity:	48%
I LEST IVIDAE.	GSM850/GSM1900 UMTS band II/ UMTS band V	Test By:	Eileen Liu

Output Power for GSM850

Mode	Frequency(MHz)	Maximum Burst-Average Output Power
	824.2	32.67
GSM850	836.6	32.71
	848.8	32.71
GPRS850	824.2	32.75
(1 Slot)	836.6	32.77
	848.8	32.75
GPRS850	824.2	32.1
(2 Slot)	836.6	32.11
	848.8	32.07
GPRS850	824.2	30.59
(3 Slot)	836.6	30.59
	848.8	30.57
GPRS850	824.2	29.65
(4 Slot)	836.6	29.59
	848.8	29.51
EGPRS850	824.2	28.8
(1 Slot)	836.6	28.64
	848.8	28.51
EGPRS850	824.2	27.85
(2 Slot)	836.6	27.56
	848.8	27.47
EGPRS850	824.2	26.09
(3 Slot)	836.6	25.76
	848.8	25.65
EGPRS850	824.2	25.13
(4 Slot)	836.6	24.77
	848.8	24.68

N/A: Not Applicable



Mode	Frequency(MHz)	Maximum Burst-Average Output Power		
	1850.2	29.6		
GSM1900	1880	29.51		
	1909.8	29.31		
GPRS1900	1850.2	29.81		
(1 Slot)	1880	29.76		
	1909.8	29.65		
GPRS1900	1850.2	29.31		
(2 Slot)	1880	29.29		
	1909.8	29.19		
GPRS1900	1850.2	27.75		
(3 Slot)	1880	27.82		
	1909.8	27.87		
GPRS1900	1850.2	26.67		
(4 Slot)	1880	26.75		
	1909.8	26.78		
EGPRS1900	1850.2	27.52		
(1 Slot)	1880	27.75		
	1909.8	27.95		
EGPRS1900	1850.2	26.35		
(2 Slot)	1880	26.76		
	1909.8	27		
EGPRS1900	1850.2	24.31		
(3 Slot)	1880	24.67		
	1909.8	25.11		
EGPRS1900	1850.2	23.18		
(4 Slot)	1880	23.59		
	1909.8	24.05		

N/A: Not Applicable



lode	Frequency(MHz)	Maximum Burst-Average Output Power		
WCDMA 1900	1852.4	23.72		
RMC	1880	23.68		
	1907.6	23.77		
WCDMA 1900	1852.4	23.64		
AMR	1880	23.64		
	1907.6	23.68		
HSDPA	1852.4	22.78		
Subtest 1	1880	22.71		
	1907.6	22.83		
HSDPA	1852.4	22.31		
Subtest 2	1880	22.25		
	1907.6	22.38		
HSDPA	1852.4	22.34		
Subtest 3	1880	22.27		
	1907.6	22.38		
HSDPA	1852.4	22.32		
Subtest 4	1880	22.25		
	1907.6	22.39		
HSUPA	1852.4	22.64		
Subtest 1	1880	22.61		
	1907.6	22.7		
HSUPA	1852.4	22.29		
Subtest 2	1880	22.24		
	1907.6	22.32		
HSUPA	1852.4	22.01		
Subtest 3	1880	21.95		
	1907.6	22.05		
HSUPA	1852.4	21.98		
Subtest 4	1880	21.87		
	1907.6	21.99		
HSUPA	1852.4	22.92		
Subtest 5	1880	22.85		
	1907.6	22.94		



lode	Frequency(MHz)	Maximum Burst-Average Output Power
WCDMA 850	826.4	23.19
RMC	835	23.35
	846.6	23.46
WCDMA 850	826.4	23.12
AMR	835	2327
	846.6	23.43
HSDPA	826.4	22.23
Subtest 1	835	22.35
	846.6	22.45
HSDPA	826.4	21.7
Subtest 2	835	21.89
	846.6	21.97
HSDPA	826.4	21.72
Subtest 3	835	21.88
	835 846.6 826.4 835 846.6 826.4 835 846.6	21.98
HSDPA	826.4	21.74
Subtest 4	835	21.92
	846.6	21.96
HSUPA	826.4	22.13
Subtest 1	835	22.29
	846.6	22.39
HSUPA	826.4	21.81
Subtest 2	835	21.95
	846.6	22.04
HSUPA	826.4	21.43
Subtest 3	835	21.46
	846.6	21.52
HSUPA	826.4	21.35
Subtest 4	835	21.43
	846.6	21.44
HSUPA	826.4	22.43
Subtest 5	835	22.41
	846.6	22.55



7.5 FREQUENCY STABILITY

7.5.1 Applicable Standard

According to FCC Part 2.1055 and FCC Part 22.355 and FCC Part 24.235 and FCC KDB 971168 D01 Section 9.0

7.5.2 Conformance Limit

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.

7.5.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

Connect the EUT to Universal Radio Communication Tester CMU200 or CMU500 via the antenna connector. A call is set up by the SS according to the generic call set up procedure on a channel with ARFCN in the ARFCN range, power control level set to Max power. MS TXPWR_MAX_CCH is set to the maximum value supported by the Power Class of the Mobile under test.

EUT was placed at temperature chamber and connected to an external power supply.

Temperature and voltage condition shall be tested to confirm frequency stability.

For Temperature Variation

- 1. The testing follows FCC KDB 971168 D01 v02r02 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.

For Voltage Variation

- 1. The testing follows FCC KDB 971168 D01 v02r02 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 85% to 115% of the nominal value measured at the input to the EUT.
- 4. The variation in frequency was measured for the worst case.

7.5.6 Test Results

EUT:	Smartphone	Model No.:	One Ultra
Temperature:	20 ℃	Relative Humidity:	48%
I I OCT IVIOGO:	est Mode: GSM850/GSM1900 UMTS band II/ UMTS band V		Eileen Liu
Results: PASS			



	Frequency Error Against Voltage for GSM 850 band						
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)							
	3.8	19	0.0227				
	3.6	25	0.0299				
	4.4	15	0.0179				

Frequency Error Against Temperature for GSM 850 band							
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)					
-10	27	0.0323					
0	24	0.0287					
10	18	0.0215					
20	26	0.0311					
30 24		0.0287					
40 23		0.0275					
50	29	0.0347					

Frequency Error Against Voltage for GPRS850 band							
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)							
3.8	18	0.0215					
3.6	25	0.0299					
4.4	17	0.0203					

Frequency Error Against Temperature for GPRS850 band						
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)				
-10	25	0.0299				
0	24	0.0287				
10	19	0.0227				
20 24		0.0287				
30	26	0.0311				
40 21		0.0251				
50	28	0.0335				

Frequency Error Against Voltage for EGPR850 band						
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)						
3.8	20	0.0239				
3.6	16	0.0191				
4.4	17	0.0203				



Frequency Error Against Temperature for EGPR850 band							
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)					
-10	27	0.0323					
0	25	0.0299					
10	29	0.0347					
20 30		0.0359					
30	24	0.0287					
40	22	0.0263					
50	26	0.0311					

Note:

1.	Normal Voltage :	= 3.8V; Batter\	/ End Point (E	BEP) = 3.6V;	: Maximum '	Voltage =4.4V

2.	The frequency	fundamental	emissions	stay	within	the	authorized	frequency	block	based	on	the
	frequency devia	ation measure	d is small.									



Frequency Error Against Voltage for PCS 1900 band					
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)			
3.8	33	0.0176			
3.6	34	0.0181			
4.4	26	0.0138			

Frequency Error Against Temperature for PCS 1900 band					
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)			
-10	27	0.0144			
0	30	0.0160			
10	19	0.0101			
20	28	0.0149			
30	22	0.0117			
40	21	0.0112			
50	26	0.0138			

Frequency Error Against Voltage for GPRS1900 band					
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)					
3.8	32	0.0170			
3.6	31	0.0165			
4.4	29	0.0154			

Frequency Error Against Temperature for GPRS1900 band						
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)				
-10	33	0.0176				
0	27	0.0144				
10	24	0.0128				
20	26	0.0138				
30	28	0.0149				
40	25	0.0133				
50	20	0.0106				

Frequency Error Against Voltage for EGPRS1900 band					
Voltage (V)	Frequency Error (ppm)				
3.8	29	0.0154			
3.6	26	0.0138			
4.4	18	0.0096			



Frequency Error Against Temperature for EGPRS1900 band					
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)			
-10	24 0.0128				
0	15	0.0080			
10	19	0.0101			
20	26	0.0138			
30	23	0.0122			
40	17	0.0090			
50	16	0.0085			

Note:

1.	Normal Voltage :	= 3.8V: Batterv	End Point (BEP) = 3.6V	: Maximum	Voltage =4.4V

2.	The frequency	fundamental	emissions	stay	within	the	authorized	frequency	block	based	on	the
	frequency devia	ation measure	d is small.									



Frequency Error Against Voltage for UMTS band II					
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)			
3.8	9	0.0048			
3.6	15	0.0080			
4.4	16	0.0085			

Frequency Error Against Temperature for UMTS band II						
Temperature (°C)	Frequency Error (Hz) Frequency Error (ppr					
-10	10 0.0053					
0	15	0.0080				
10	8	0.0043				
20	16	0.0085				
30	20	0.0106				
40	17	0.0090				
50	15	0.0080				

Frequency Error Against Voltage for UMTS band V					
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)					
3.8	24	0.0287			
3.6	15	0.0179			
4.4	19	0.0227			

Frequency Error Against Temperature for UMTS band V					
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)			
-10	30	0.0359			
0	24	0.0287			
10	22	0.0263			
20	20	0.0239			
30	15	0.0179			
40	19	0.0227			
50	18	0.0215			

Note:

- 1.
- Normal Voltage = 3.8V; Battery End Point (BEP) = 3.6V; Maximum Voltage =4.4V

 The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.





7.6 PEAK-TO-AVERAGE RATIO

7.6.1 Applicable Standard

According to FCC 22.913 and FCC 24.232(d) and FCC KDB 971168 D01 Section 5.7.1

7.6.2 Conformance Limit

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set the number of counts to a value that stabilizes the measured CCDF curve.

Set the measurement interval to 1 ms.

Record the maximum PAPR level associated with a probability of 0.1%.

- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- b) Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Set the measurement interval as follows:
- 1) for continuous transmissions, set to 1 ms,
- 2) for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
- e) Record the maximum PAPR level associated with a probability of 0.1%.

7.6.6 Test Results

EUT:	Smartphone	Model No.:	One Ultra
Temperature:	20 ℃	Relative Humidity:	48%
LLEST MODE.	GSM850/GSM1900/UMTS band II/ UMTS band V	Test By:	Eileen Liu
Results: PASS			



		Ce	ellular Band			
Modes GSM850 GSM1900						
Channel	128 (Low)	190 (Mid)	251 (High)	512 (Low)	661 (Mid)	810 (High)
Frequency(MHz)	824.2	836.6	848.8	1850.2	1880	1909.8
Peak-to-Average Ratio (dB)	9.55	9.28	9.36	9.35	9.20	8.91

Cellular Band						
Modes	GPRS850			GPRS1900		
Channel	128 (Low)	190 (Mid)	251 (High)	512 (Low)	661 (Mid)	810 (High)
Frequency(MHz)	824.2	836.6	848.8	1850.2	1880	1909.8
Peak-to-Average Ratio (dB)	9.70	9.64	9.52	9.66	9.56	10.12

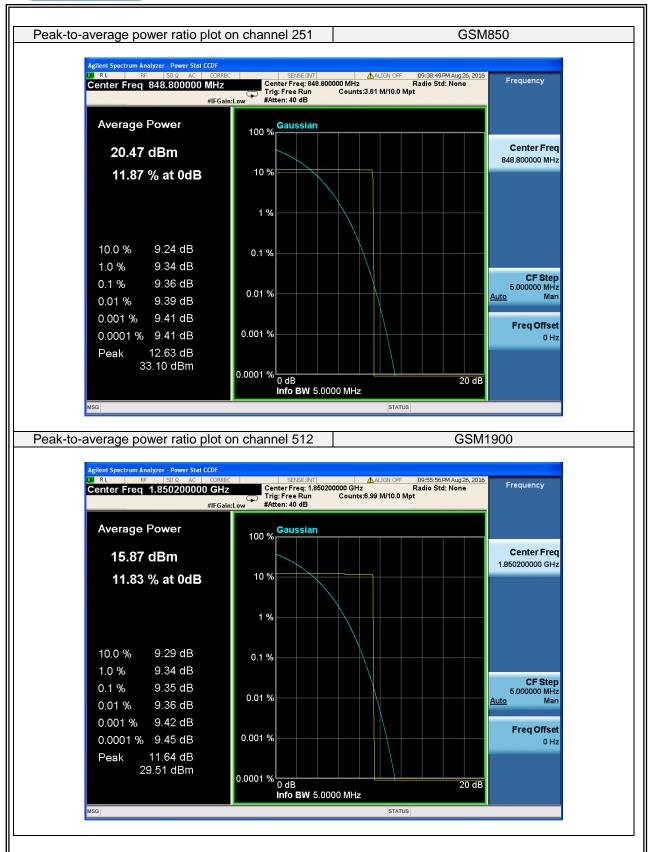
Cellular Band						
Modes	EGPRS850			EGPRS1900		
Channel	128 (Low)	190 (Mid)	251 (High)	512 (Low)	661 (Mid)	810 (High)
Frequency(MHz)	824.2	836.6	848.8	1850.2	1880	1909.8
Peak-to-Average Ratio (dB)	11.42	12.32	11.13	12.56	11.23	11.73

UMTS Band							
Modes	WCDMA Band II (RMC 12.2Kbps)			WCDMA Band V (RMC 12.2Kbps)			
Channel	9262 (Low)				4175 (Mid)	4233 (High)	
Frequency(MHz)	1852.4	1880	1907.6	826.4	836.6	846.6	
Peak-to-Average Ratio (dB)	2.85	2.80	2.55	2.70	2.73	3.25	

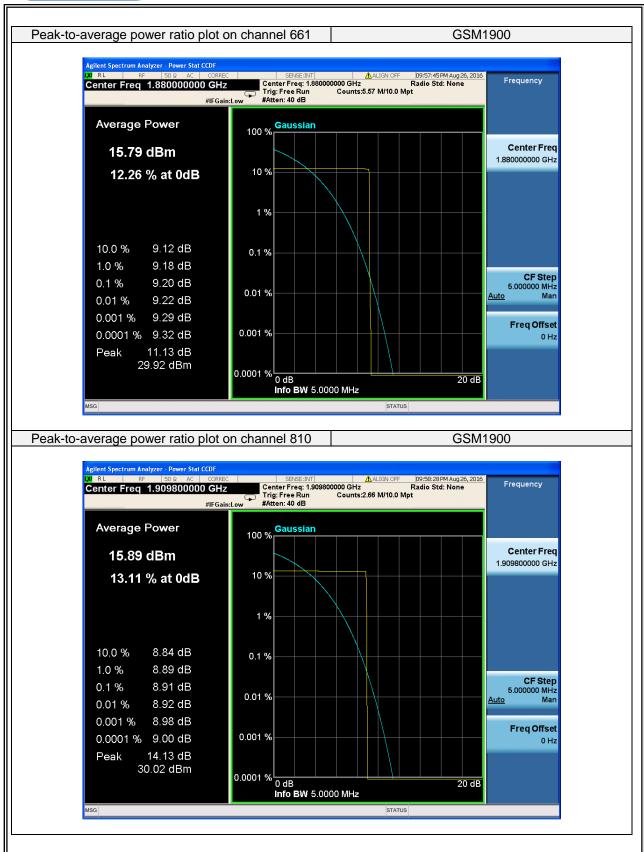




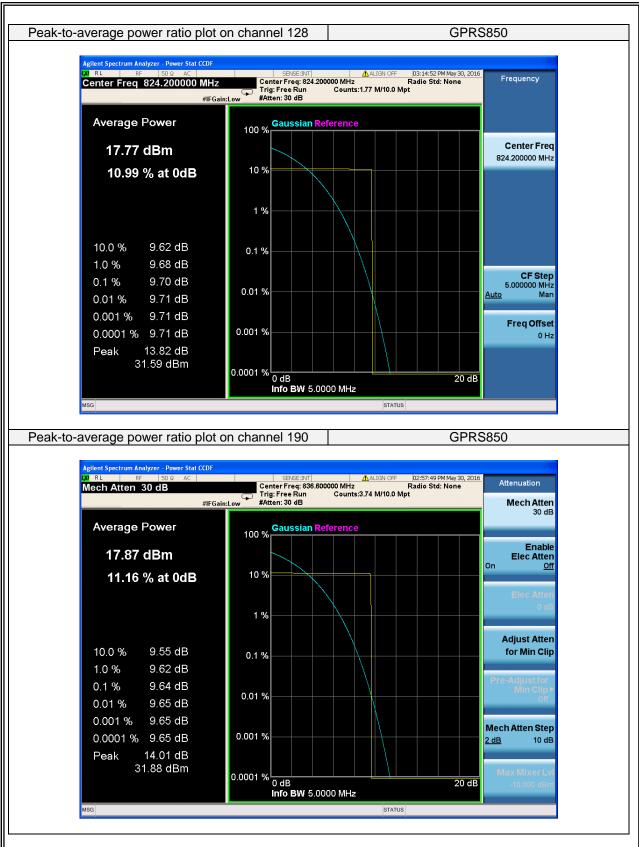








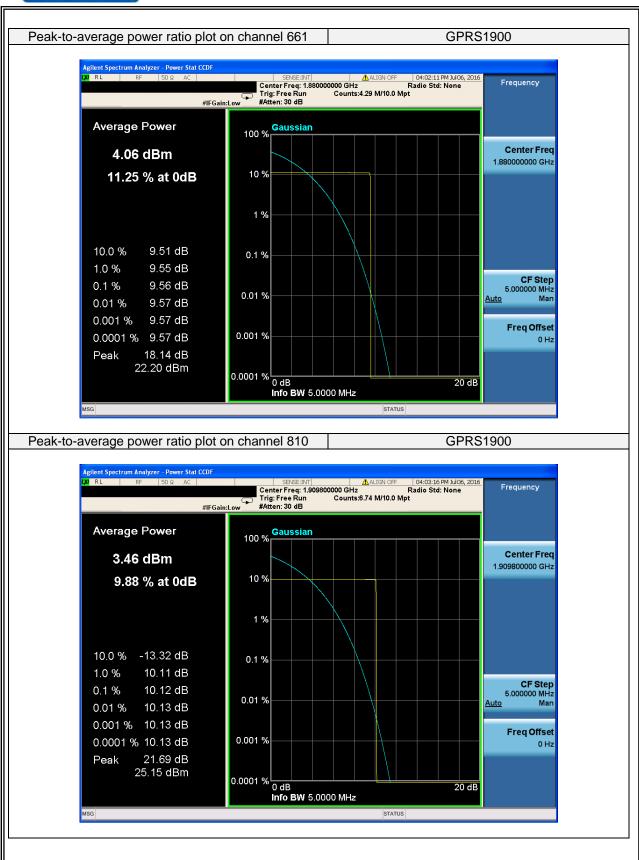








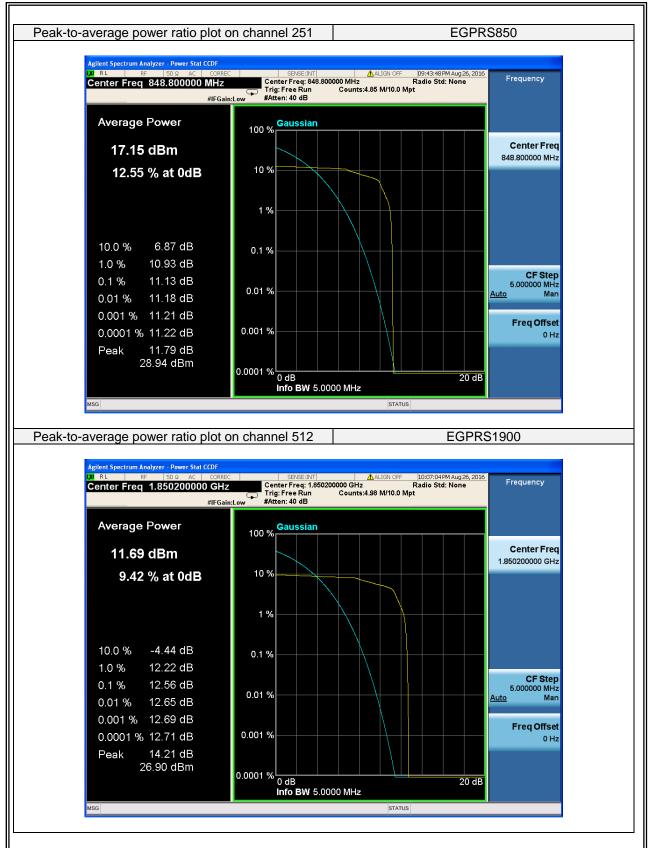




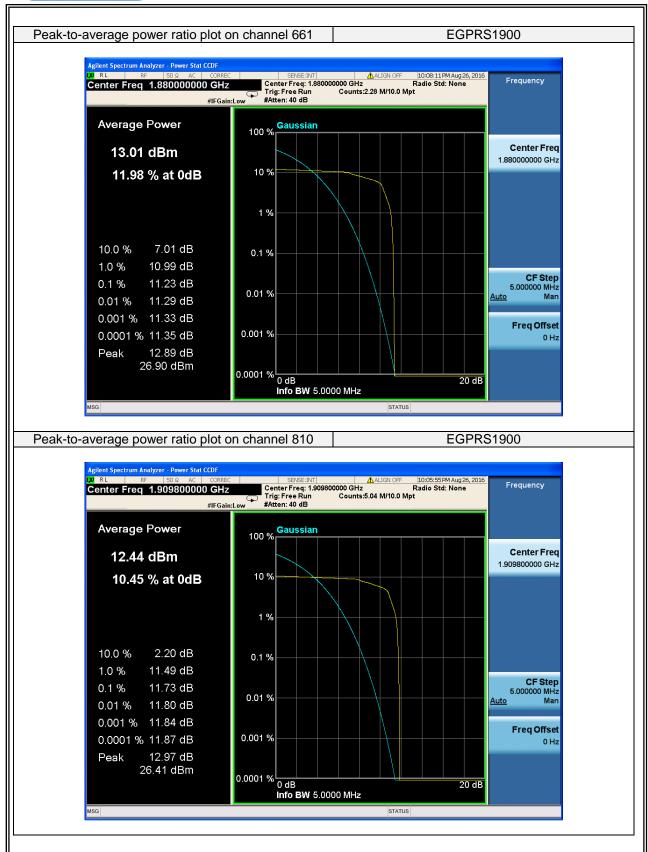




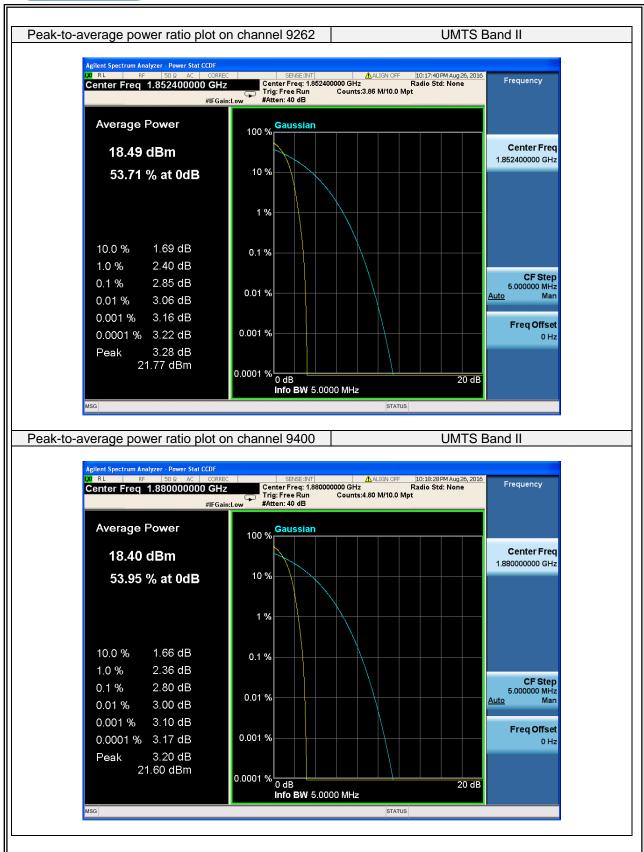




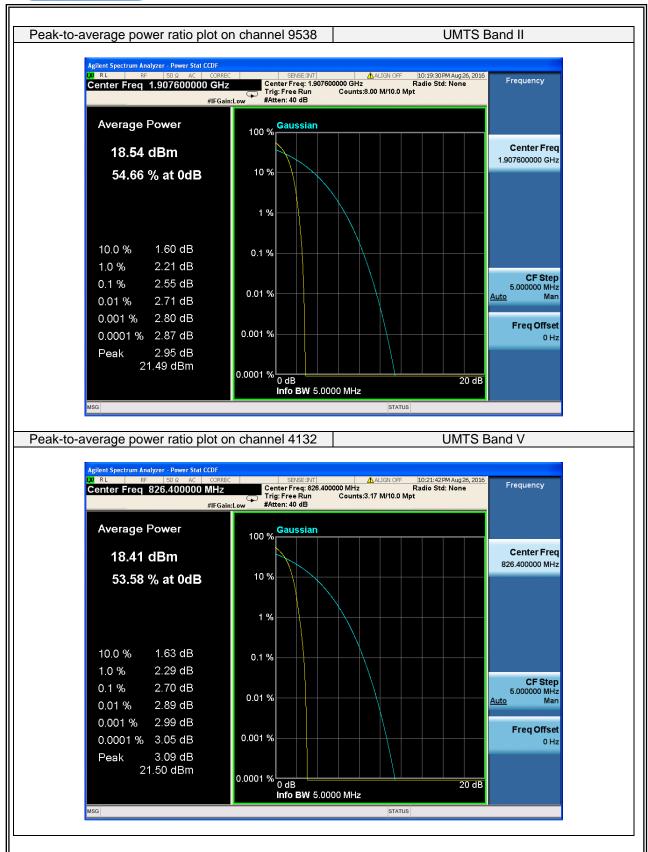




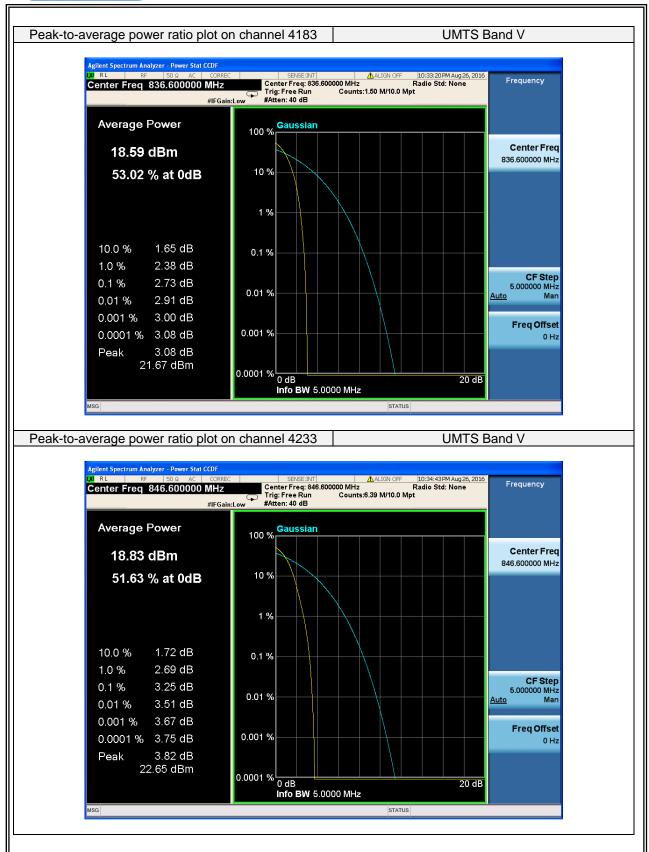














7.7 26DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

7.7.1 Applicable Standard

According to FCC Part 2.1049 and FCC Part 22H and FCC Part 24E and FCC KDB 971168 D01 Section 4.0

7.7.2 Conformance Limit

The 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 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows FCC KDB 971168 v02r02 Section 4.0.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.

The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.

Set the detection mode to peak, and the trace mode to max hold.

Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.

(this is the reference value)

Determine the "-26 dB down amplitude" as equal to (Reference Value – X).

Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the "–X dB down amplitude" determined in step 6. If a marker is below this "-X dB down amplitude" value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.

Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



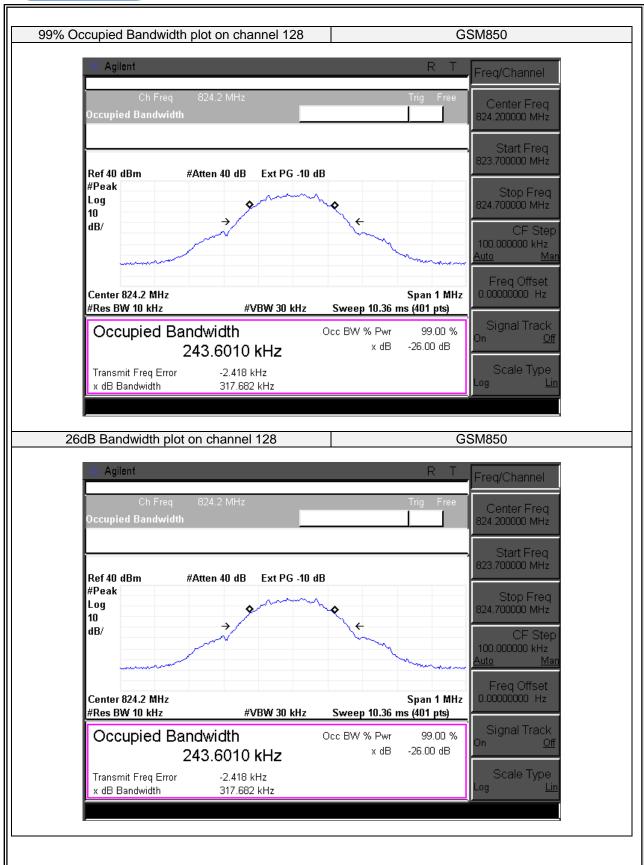
7.7.6 Test Results

EUT:	Smartphone	Model No.:	One Ultra
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	GSM850/GSM1900/UMTS band II/ UMTS band V	Test By:	Eileen Liu
D t D A C C			

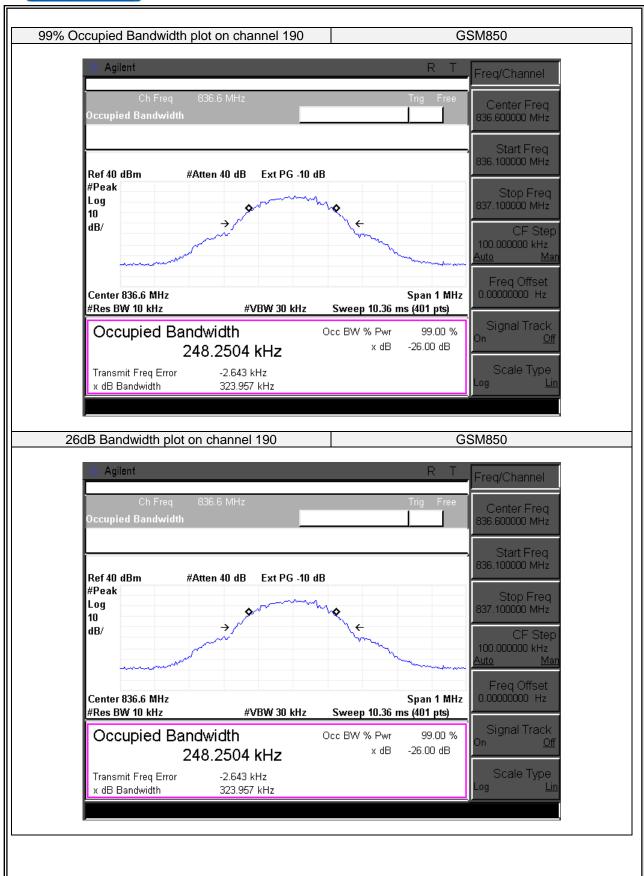
Results: PASS

Operation Mode	Channel Number	Channel Frequency (MHz)	26dB Bandwidth (kHz)	99% Occupied Bandwidth (kHz)	Limit (kHz)	Verdict
	128	824.2	317.682	243.6010	N/A	PASS
GSM850	190	836.4	323.957	248.2504	N/A	PASS
	251	848.8	316.582	245.8666	N/A	PASS
	512	1850.2	318.027	245.6371	N/A	PASS
GSM1900	661	1880.0	317.896	244.5452	N/A	PASS
	810	1909.8	318.098	247.3003	N/A	PASS
	128	824.2	315.516	245.6226	N/A	PASS
GPRS850	190	836.4	320.804	247.2240	N/A	PASS
	251	848.8	319.995	244.1884	N/A	PASS
	512	1850.2	330.905	250.1068	N/A	PASS
GPRS1900	661	1880.0	321.186	245.5403	N/A	PASS
	810	1909.8	320.201	246.7661	N/A	PASS
	128	824.2	331.921	258.3484	N/A	PASS
EGPRS850	190	836.4	339.358	260.9413	N/A	PASS
	251	848.8	330.013	256.2263	N/A	PASS
	512	1850.2	322.977	257.0994	N/A	PASS
EGPRS1900	661	1880.0	341.023	255.1342	N/A	PASS
	810	1909.8	332.286	261.9006	N/A	PASS
LIMTC Dond	4132	826.4	4900.000	4217.1000	N/A	PASS
UMTS Band V	4183	836.4	4888.000	4208.2000	N/A	PASS
V	4233	846.6	4871.000	4205.0000	N/A	PASS
UMTS Band	9262	1852.4	4879.000	4204.5000	N/A	PASS
II	9400	1880.0	4878.000	4214.3000	N/A	PASS
II	9538	1907.6	4905.000	4220.1000	N/A	PASS

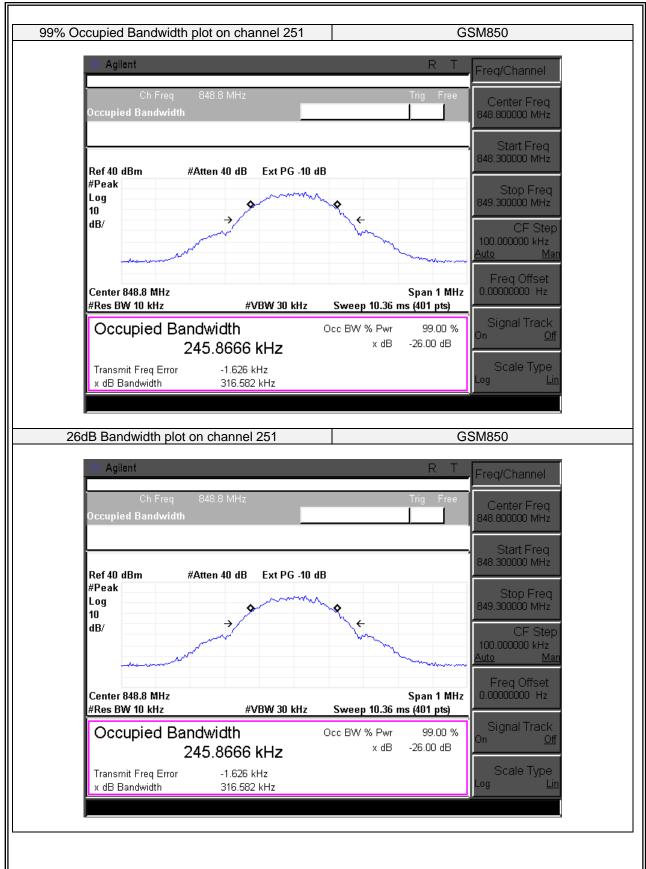




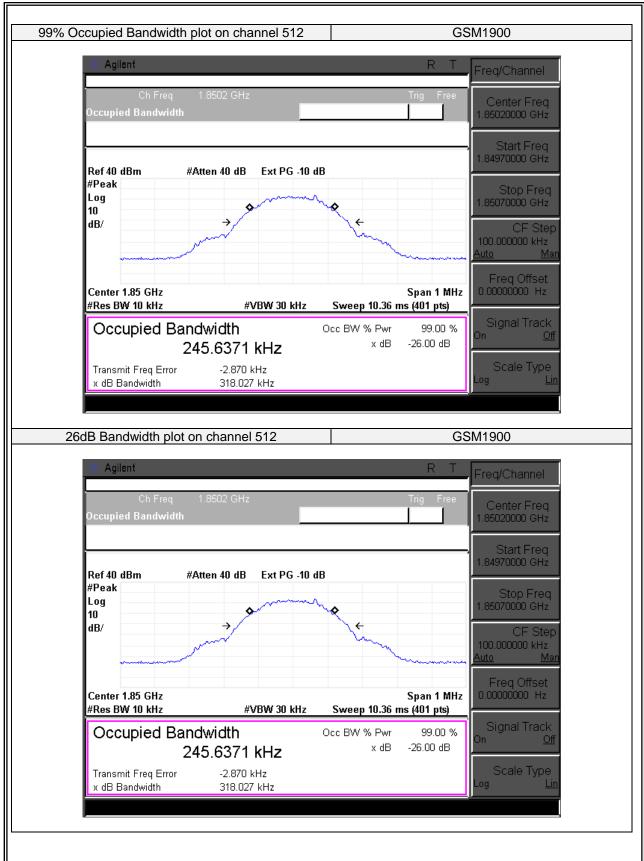




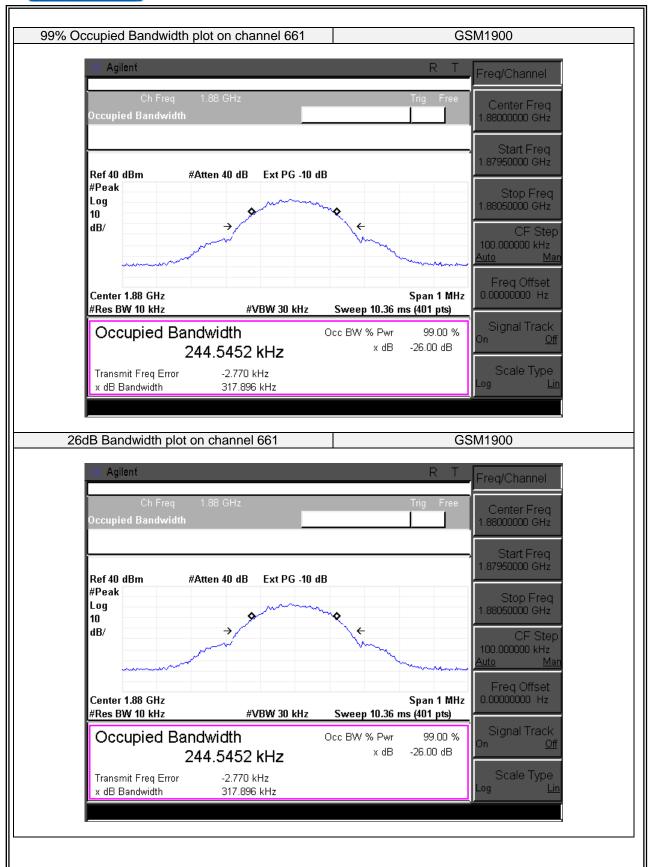




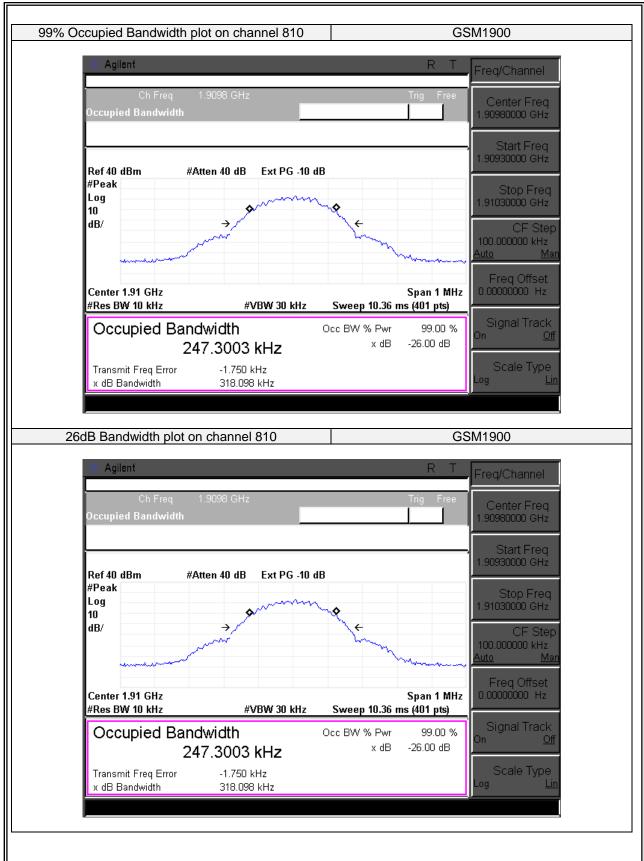




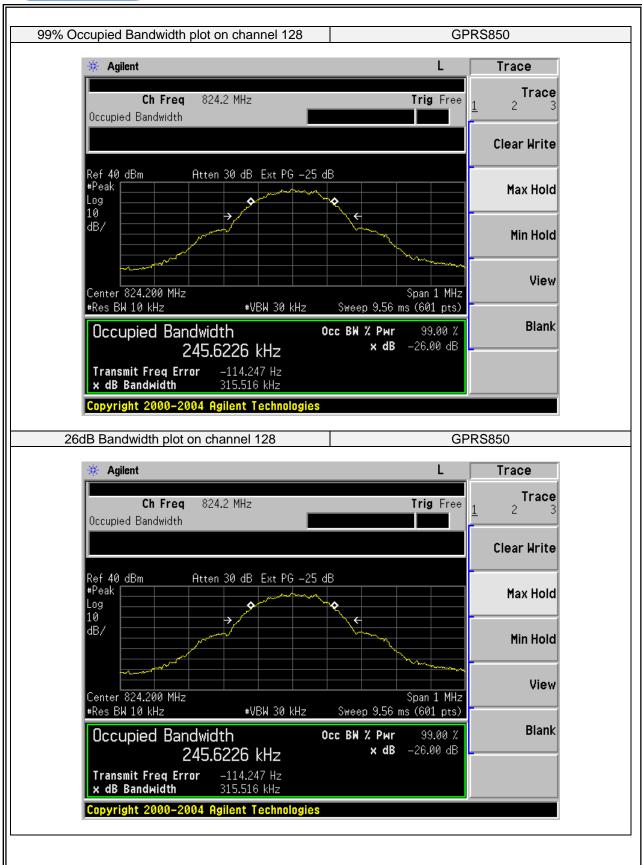












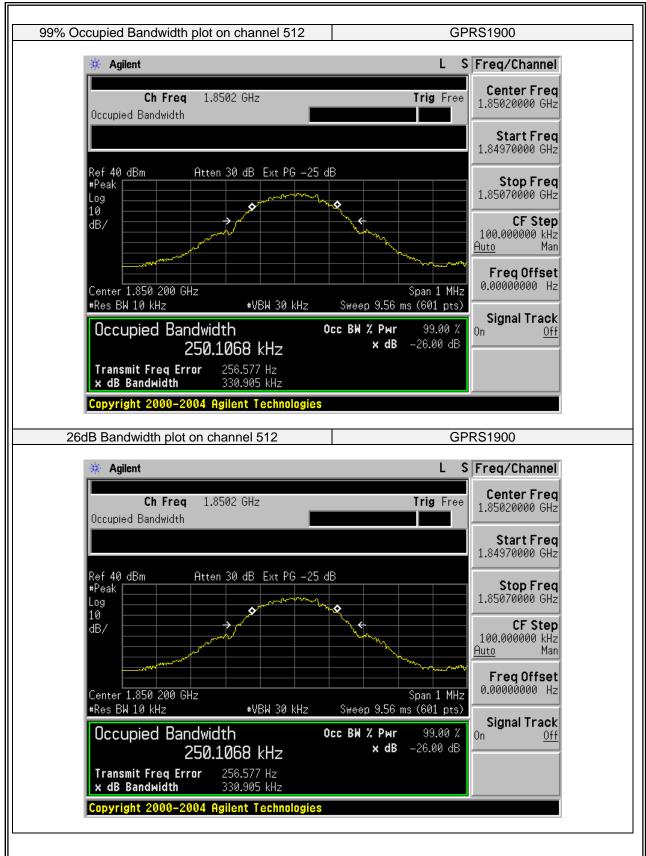




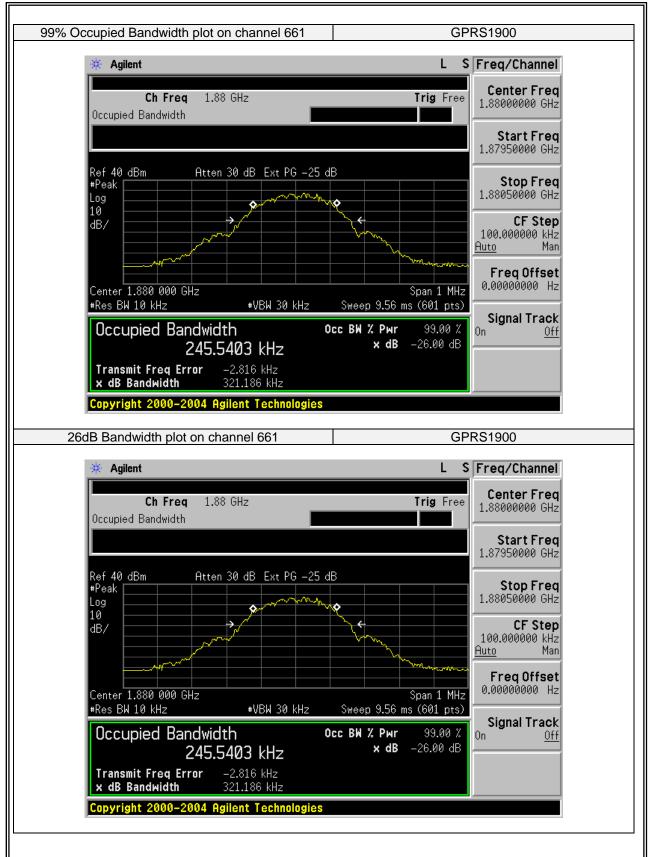








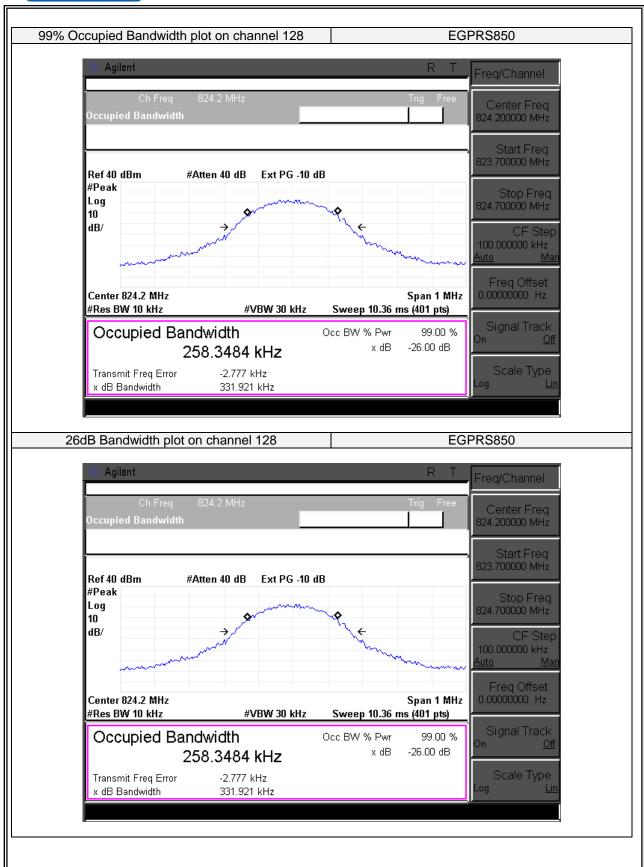




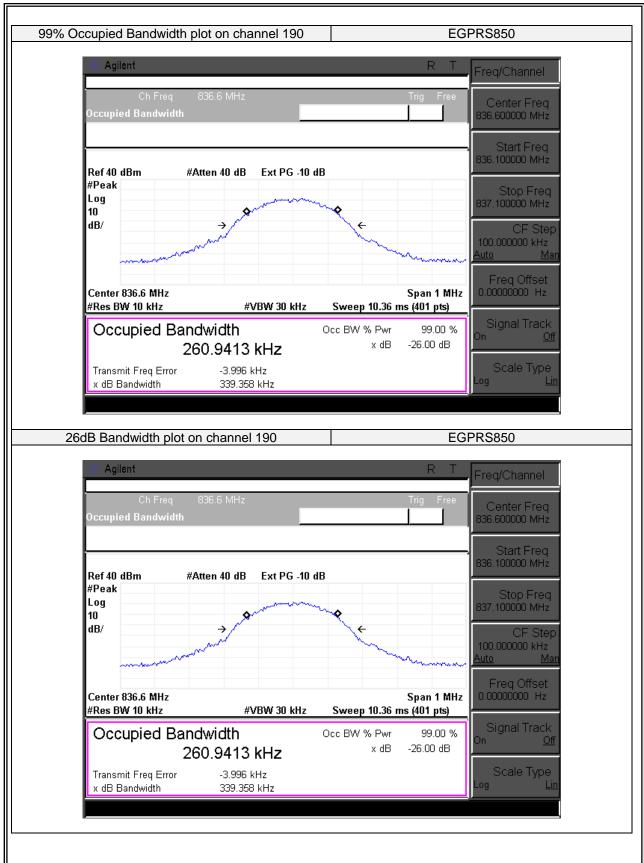




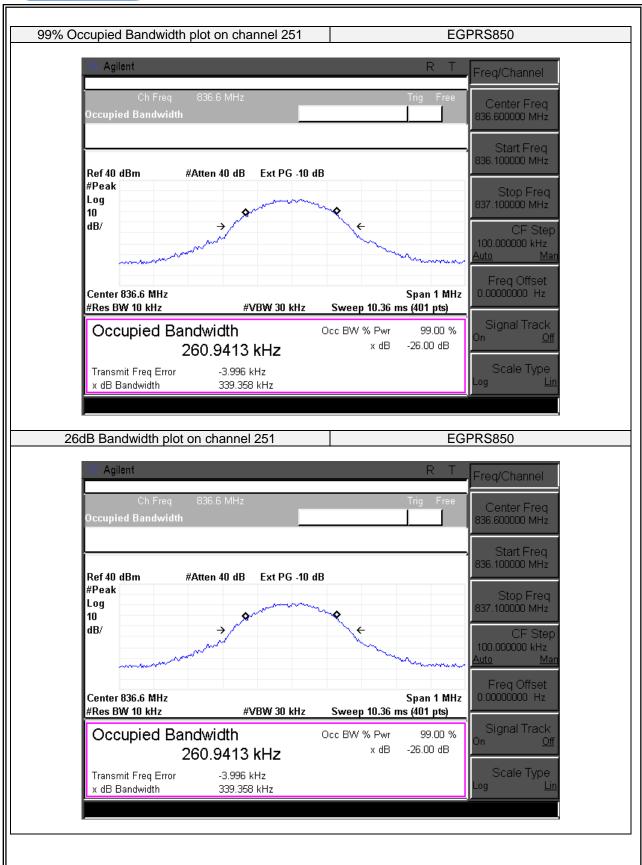




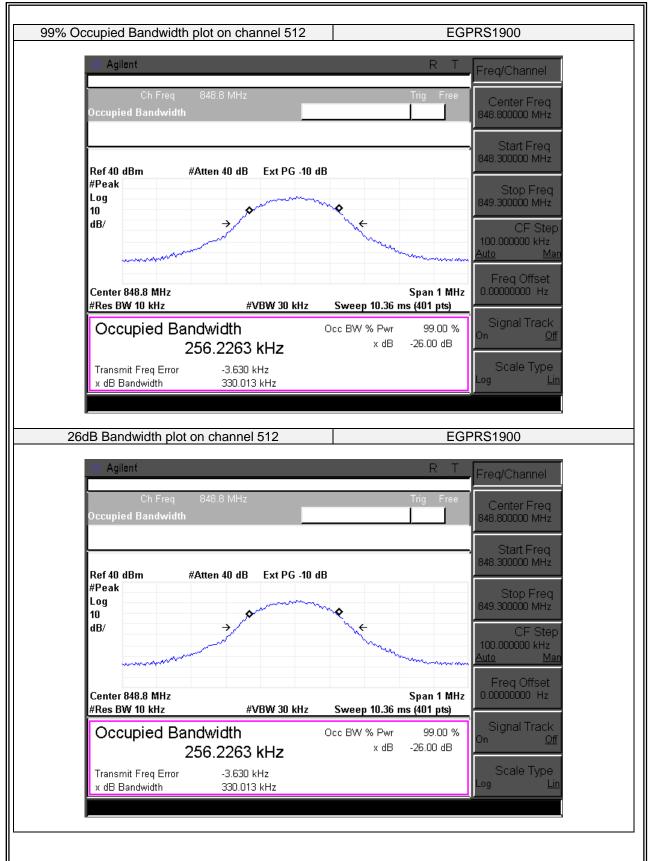




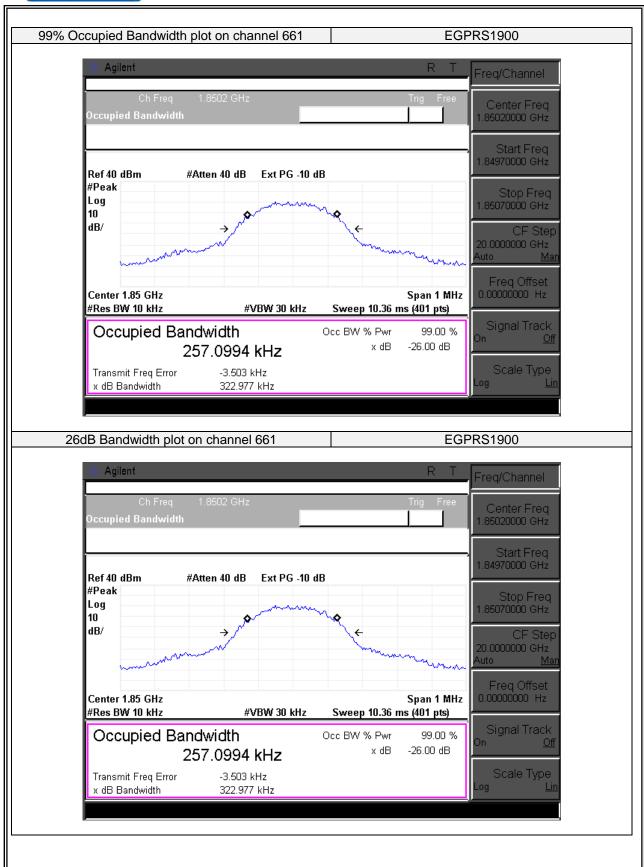




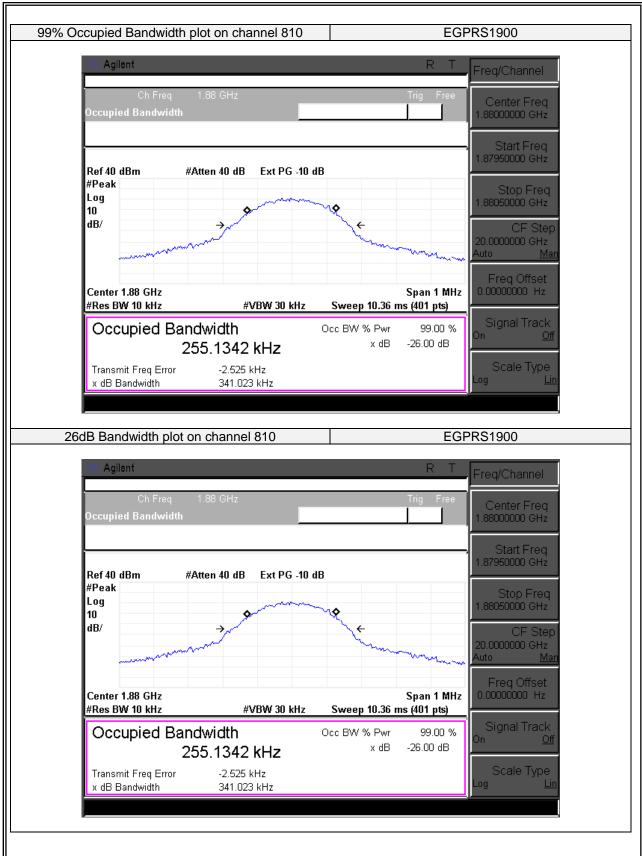




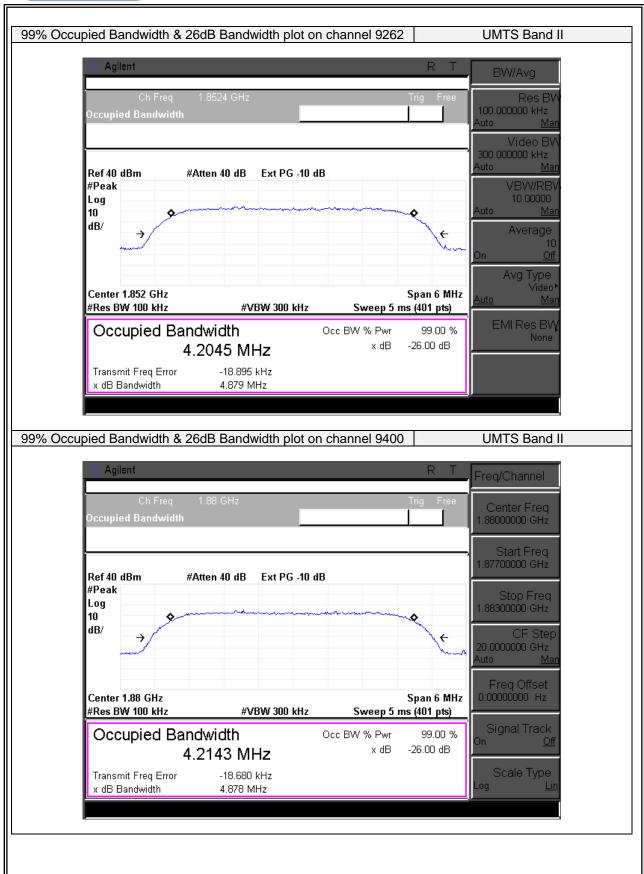




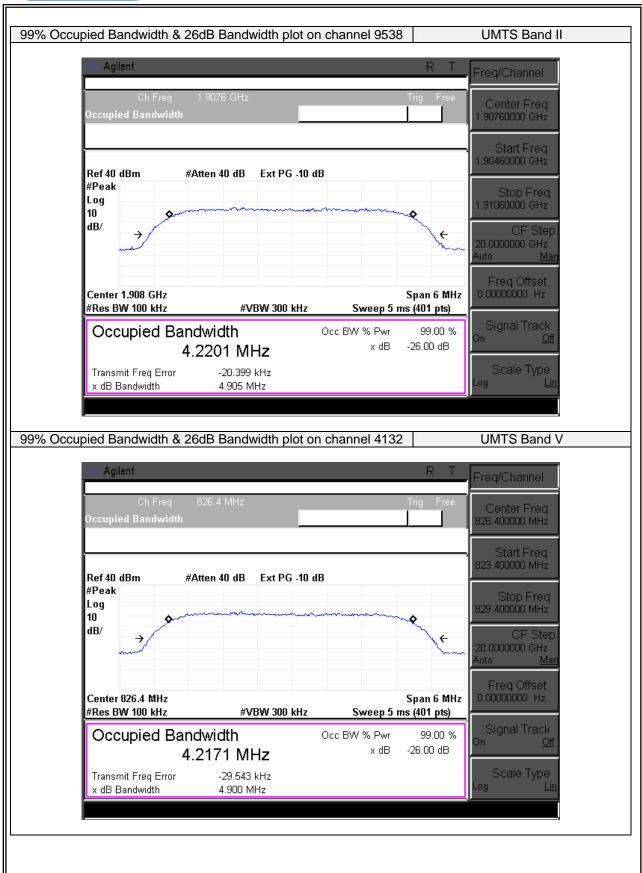




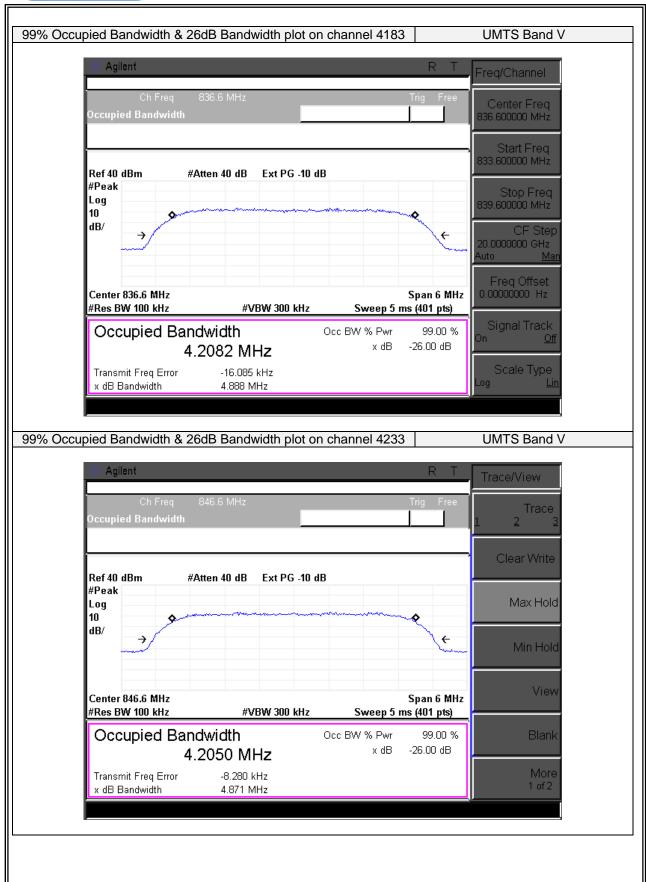














7.8 CONDUCTED BAND EDGE

7.8.1 Applicable Standard

According to FCC Part 2.1051 and FCC Part 22.917(a) and 24.238(a) and FCC KDB 971168 D01 Section6.0

7.8.2 Conformance Limit

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.

7.8.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.4 Test Setup

Please refer to Section 6.1 of this test report.

7.8.5 Test Procedure

The testing follows FCC KDB 971168 v02r02 Section 6.0.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

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

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

The band edges of low and high channels for the highest RF powers were measured.

The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

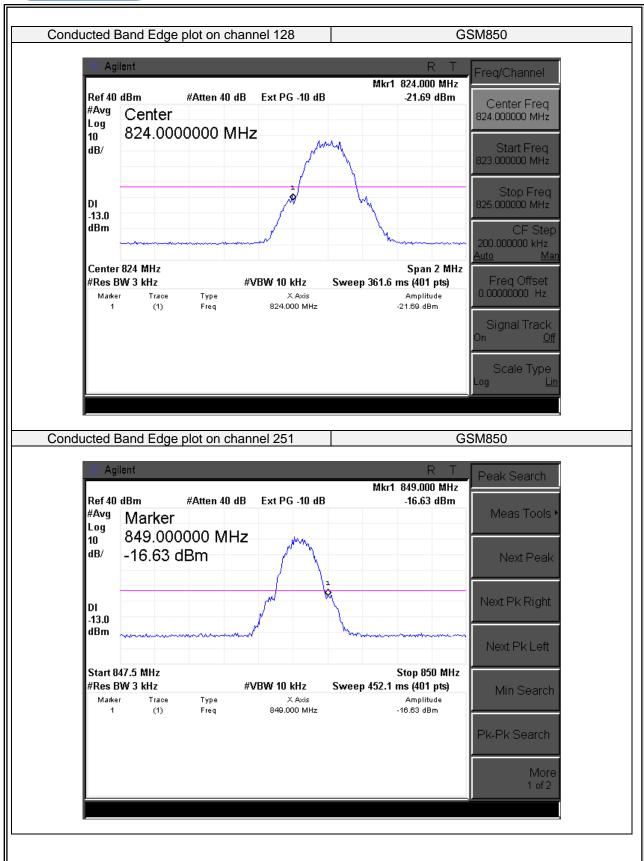
The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

- = P(W) [43 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
- = -13dBm.

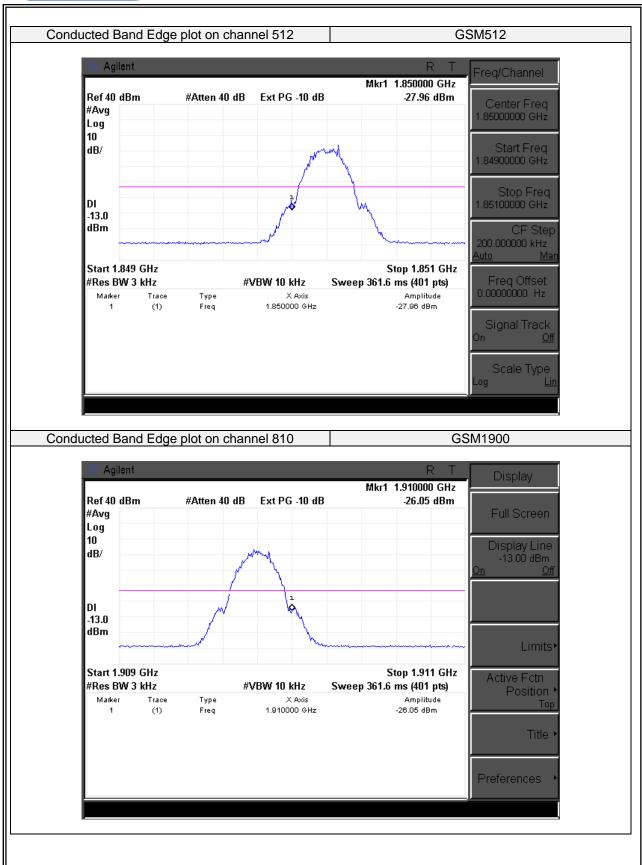
7.8.6 Test Results

EUT:	Smartphone	Model No.:	One Ultra
Temperature:	20 ℃	Relative Humidity:	48%
Hest Mode.	GSM850/GSM1900/UMTS band II/ UMTS band V	Test By:	Eileen Liu
Results: PASS			

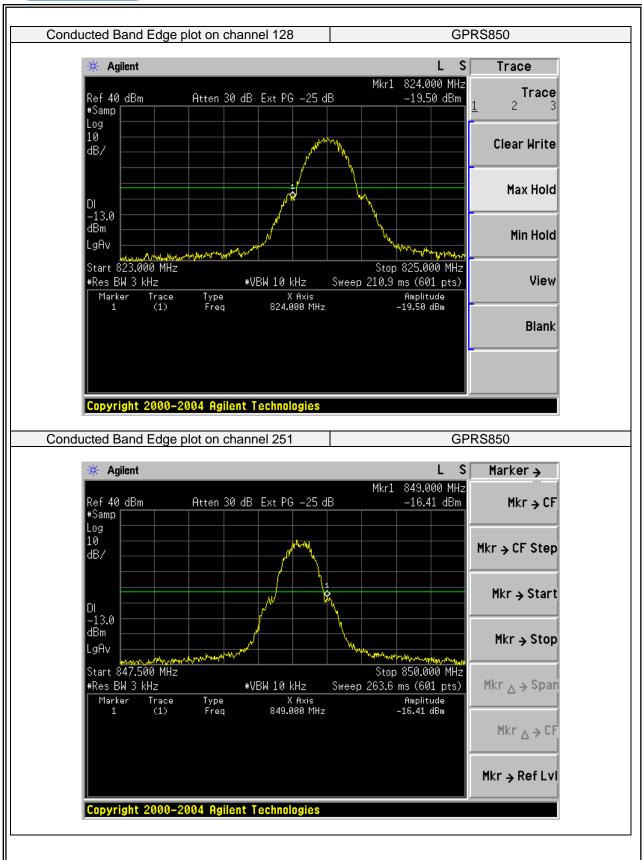




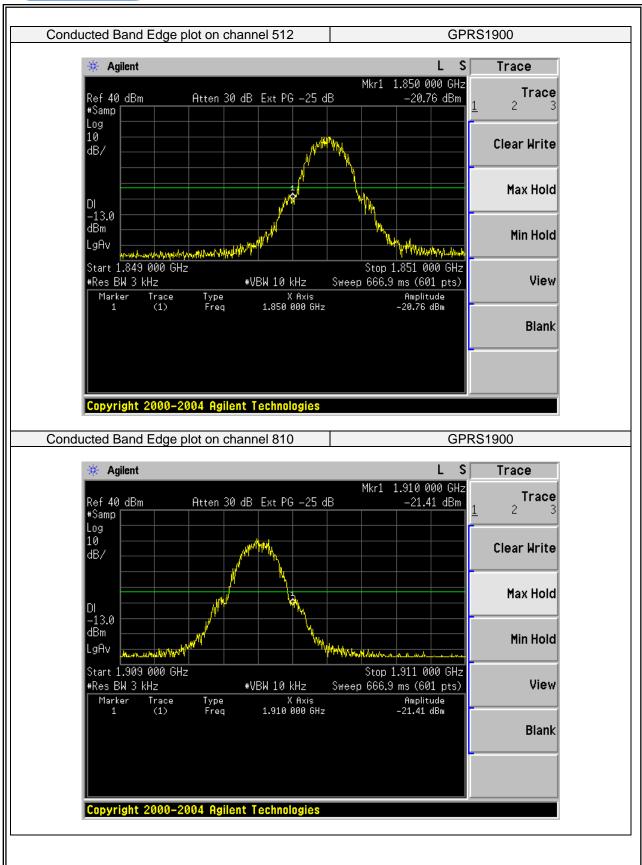




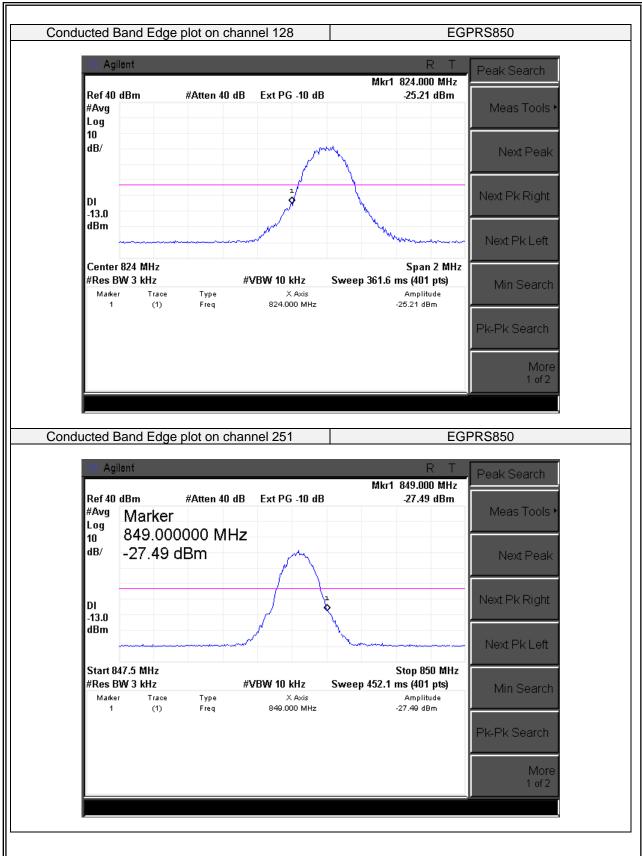




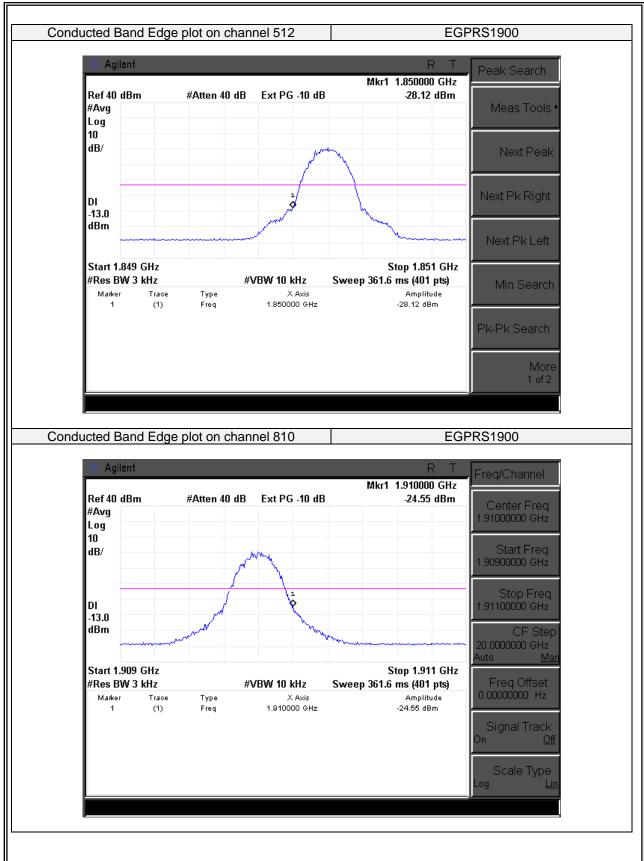




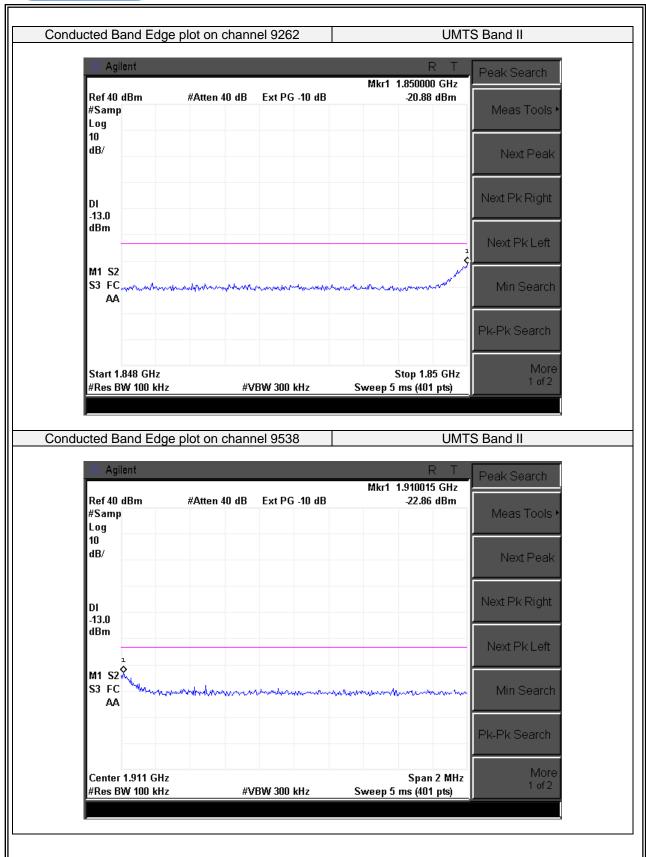




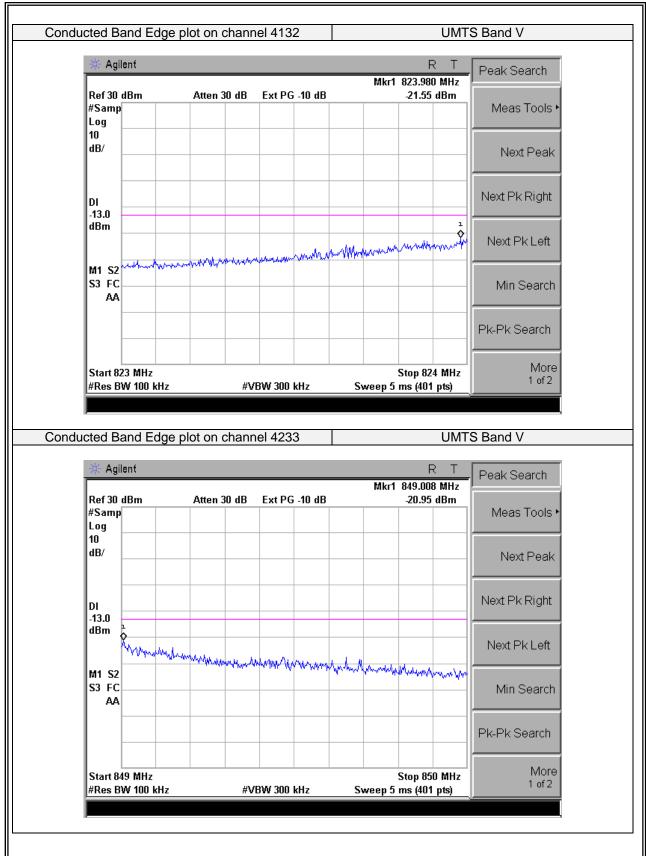














7.9 CONDUCTED SPURIOUS EMISSION AT ANTENNA TERMINAL

7.9.1 Applicable Standard

According to FCC Part 2.1051 and FCC Part 22.917(a) and Part 24.238(a) and FCC KDB 971168 D01 Section6.0

7.9.2 Conformance Limit

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.

7.9.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.9.4 Test Setup

Please refer to Section 6.1 of this test report.

7.9.5 Test Procedure

The testing follows FCC KDB 971168 v02r02 Section 6.0.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

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

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

The middle channel for the highest RF power within the transmitting frequency was measured.

The conducted spurious emission for the whole frequency range was taken.

The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

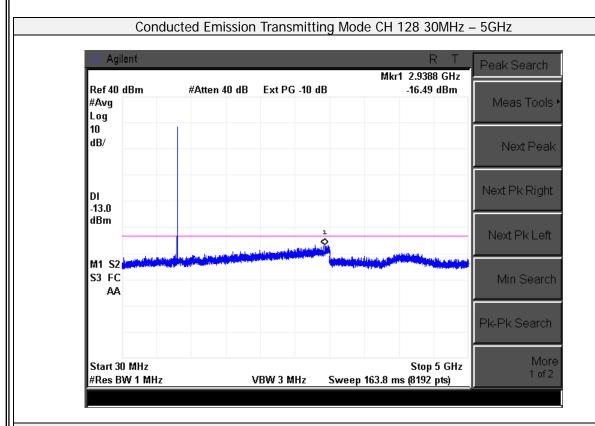
The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

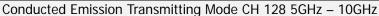
- = P(W) [43 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
- = -13dBm.

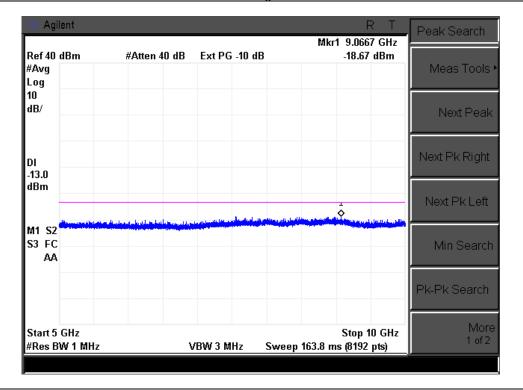
7.9.6 Test Results

EUT:	Smartphone	Model No.:	One Ultra
Temperature:	20 ℃	Relative Humidity:	48%
Hest Mode.	GSM850/GSM1900/UMTS band II/ UMTS band V	Test By:	Eileen Liu
Results: PASS			

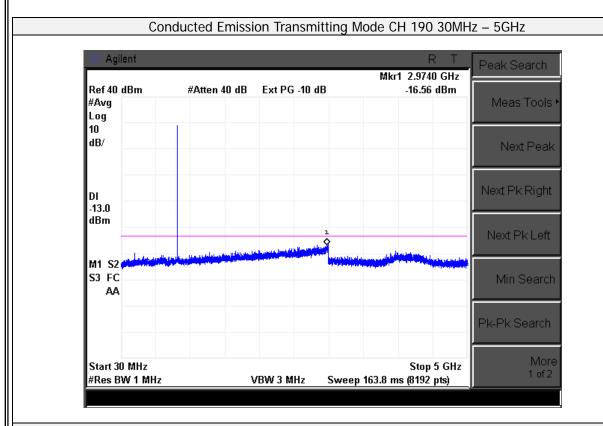


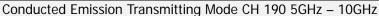


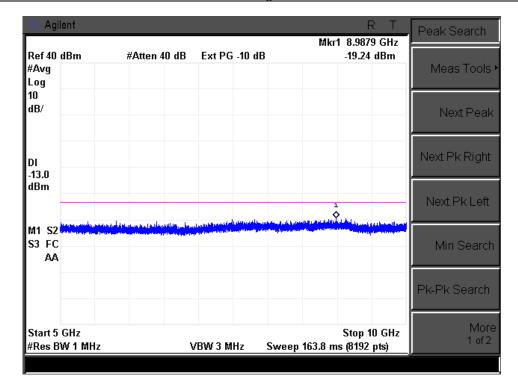




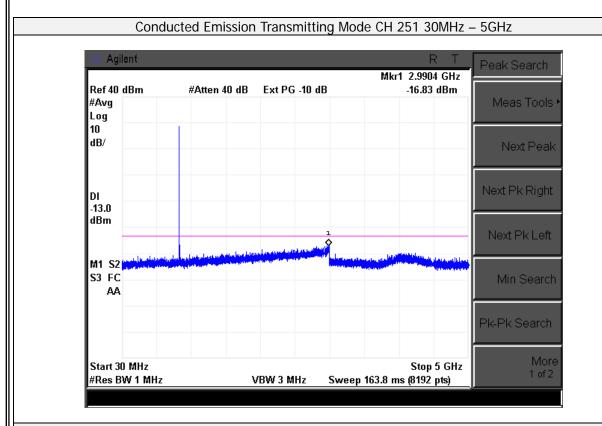


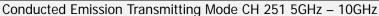


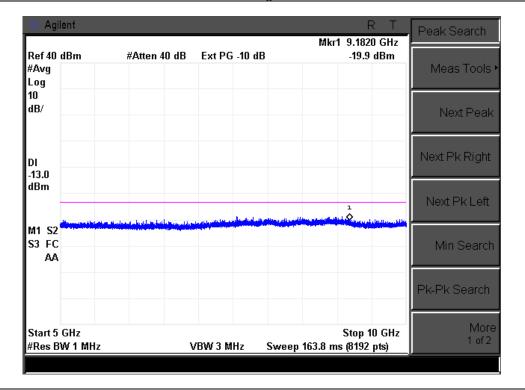




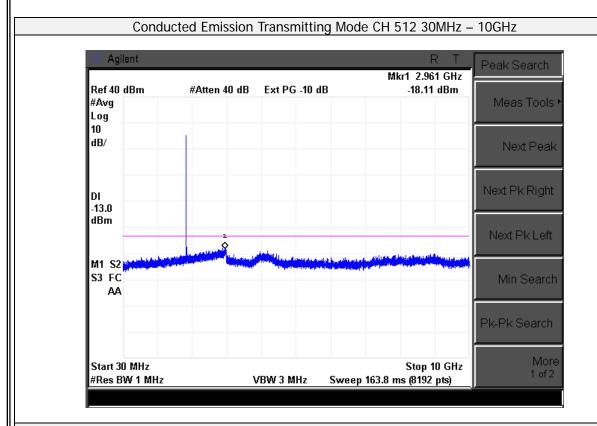


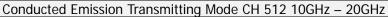


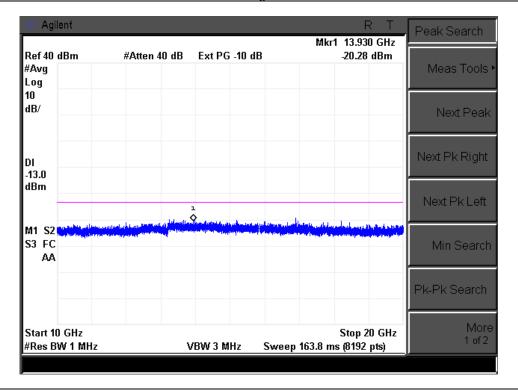




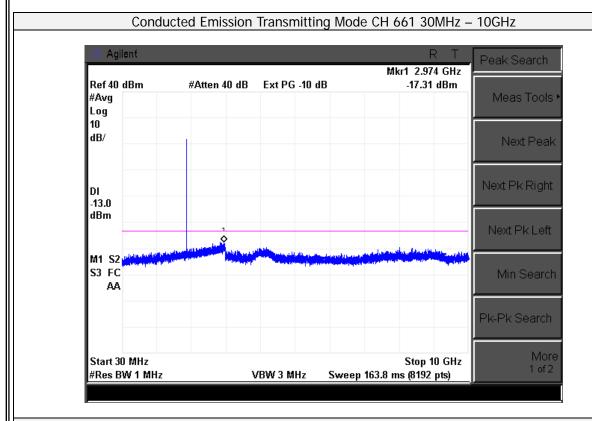


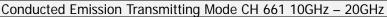


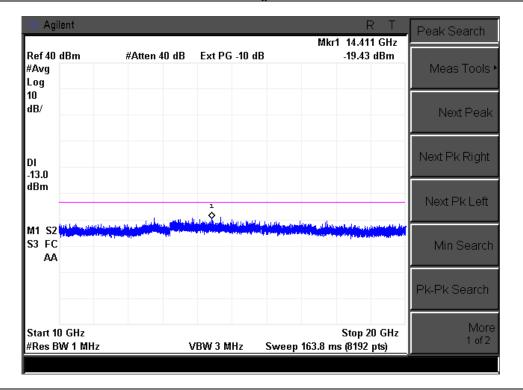




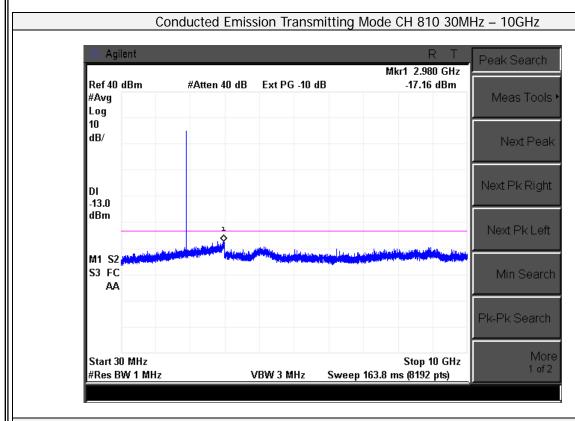


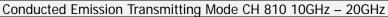


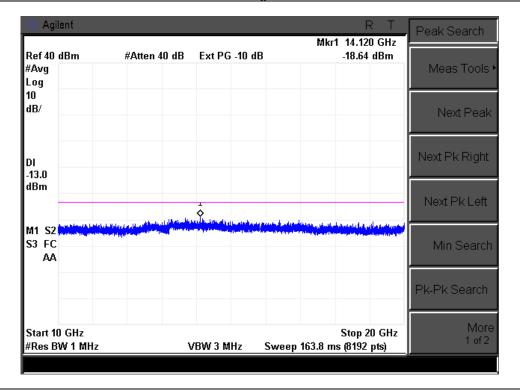




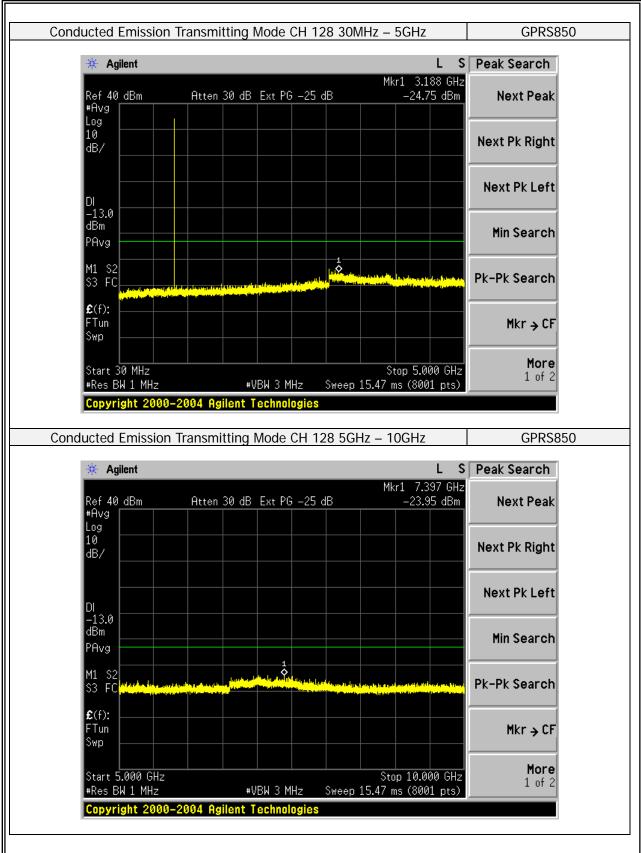




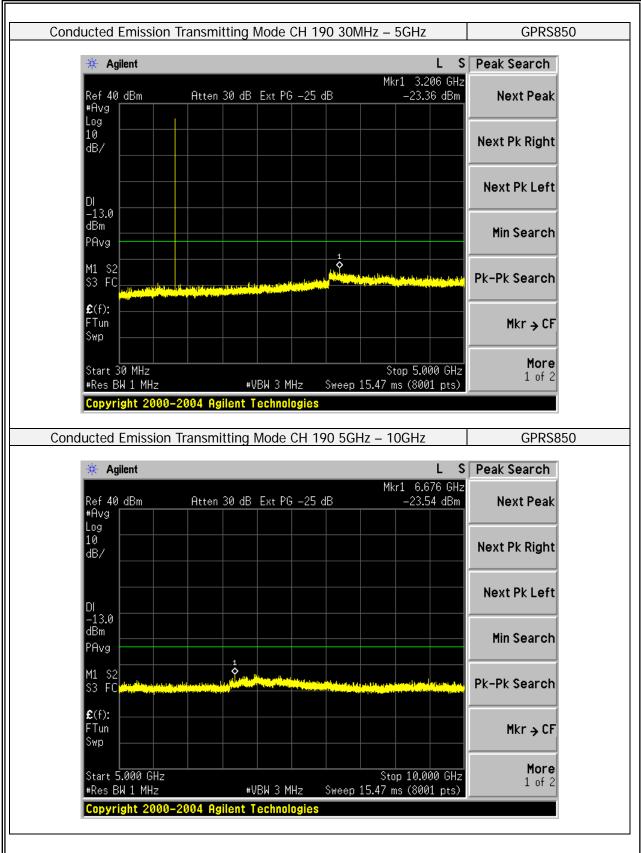




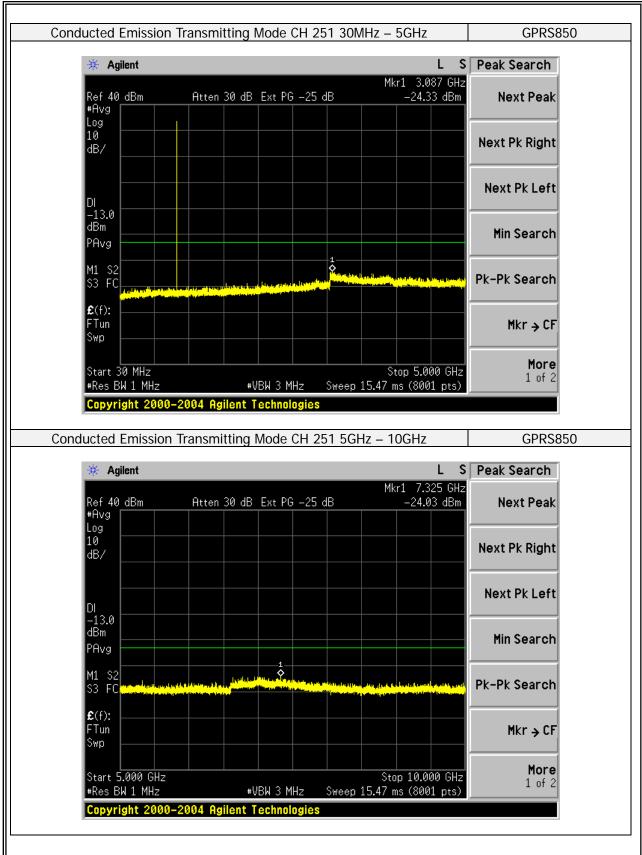




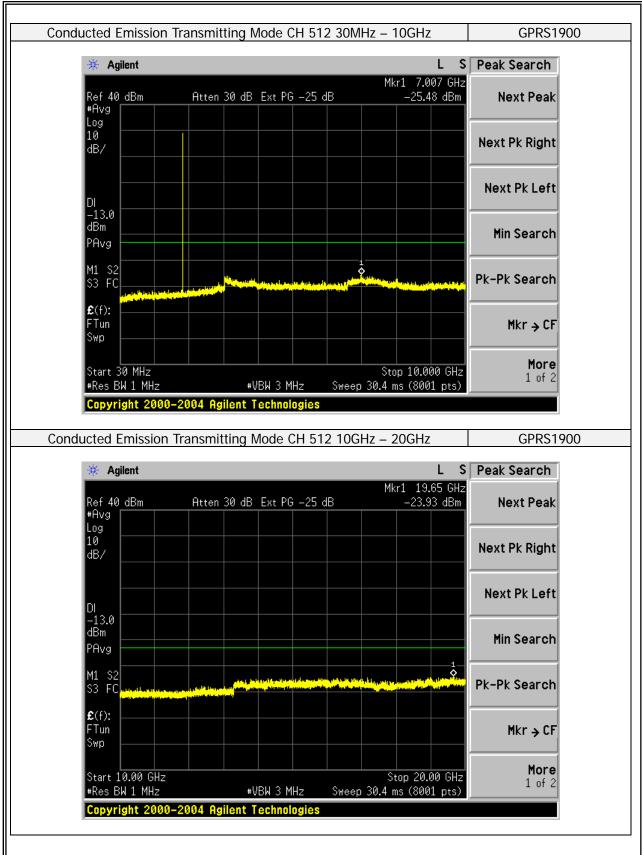




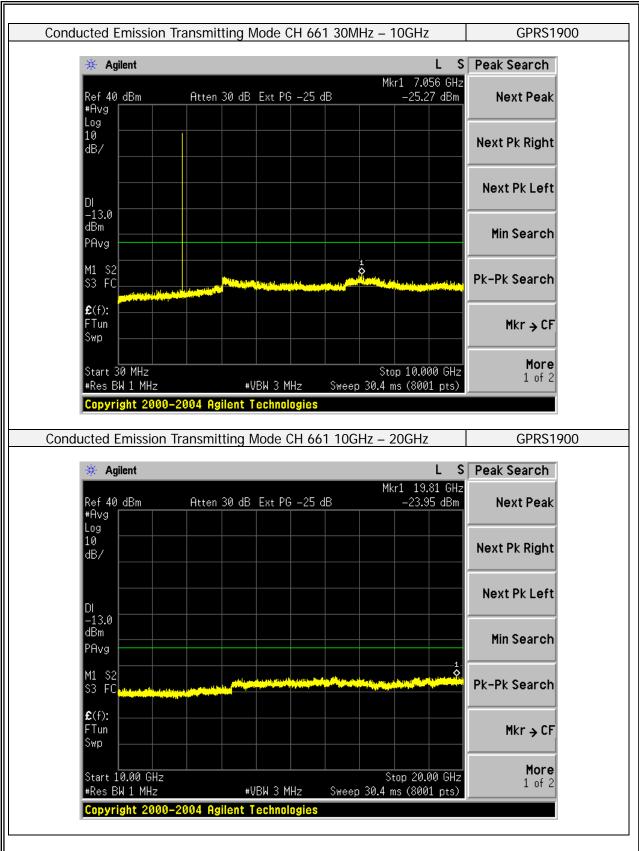




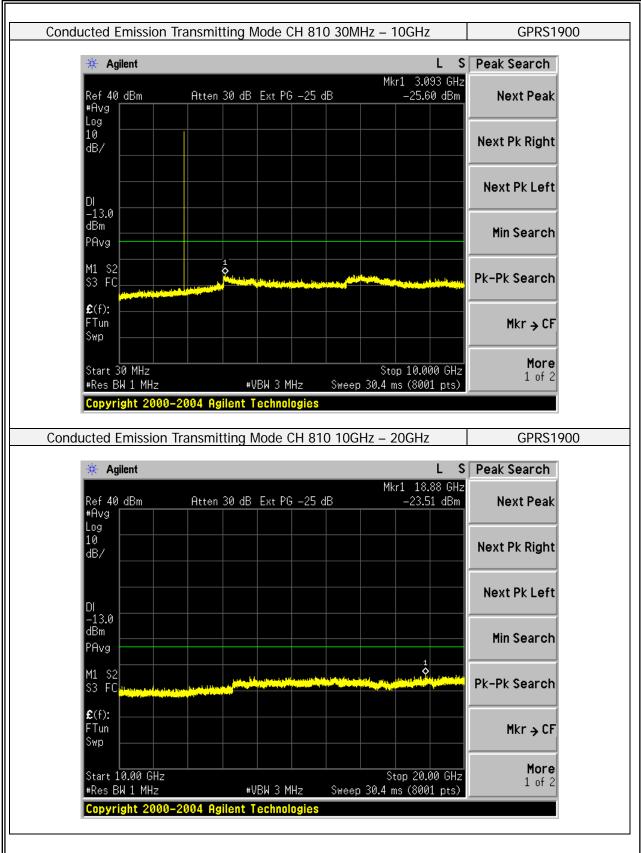




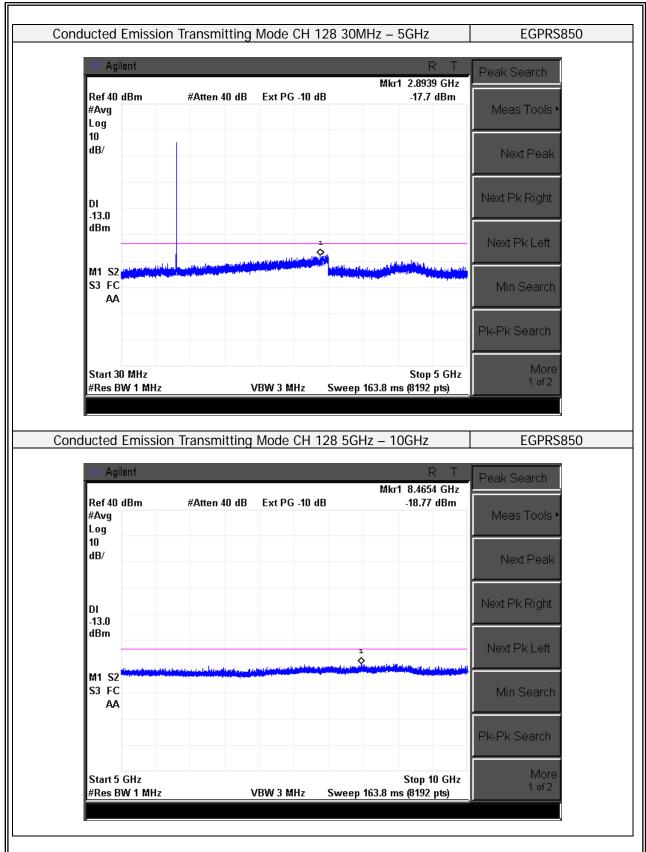




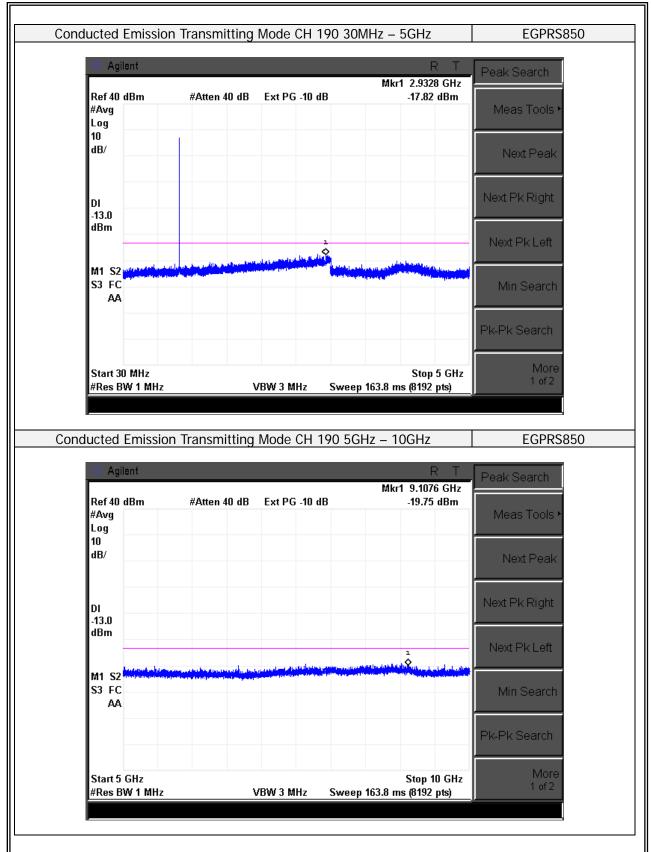




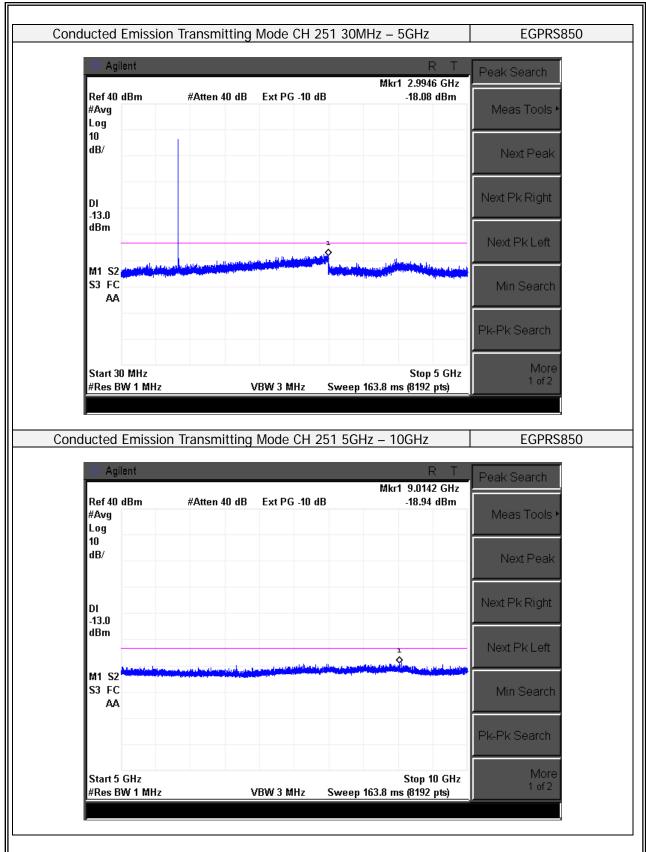




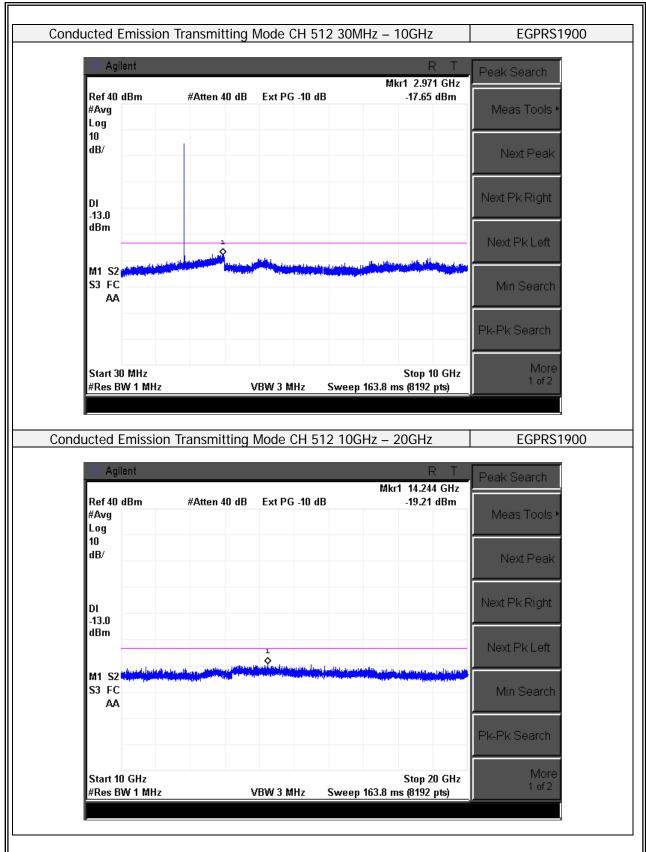




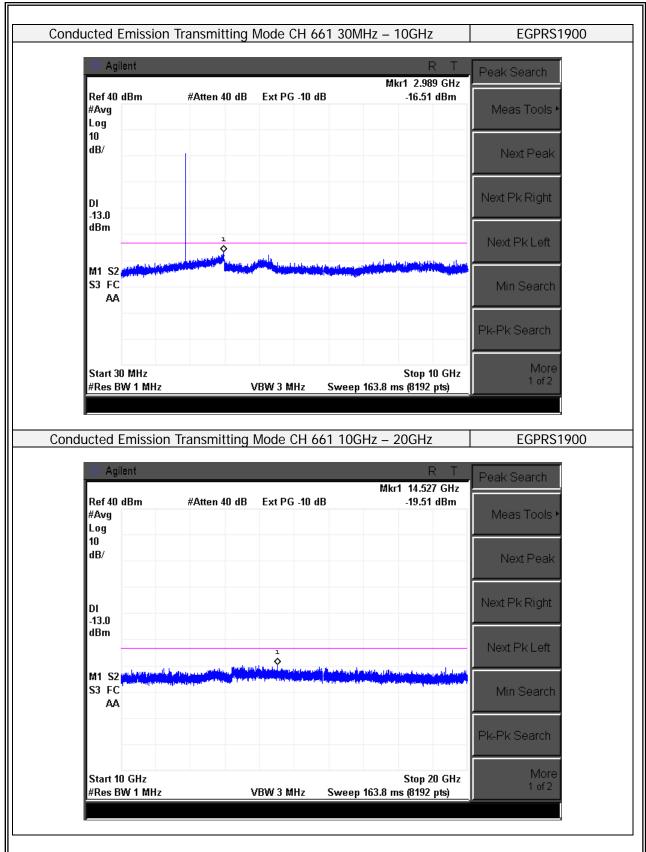




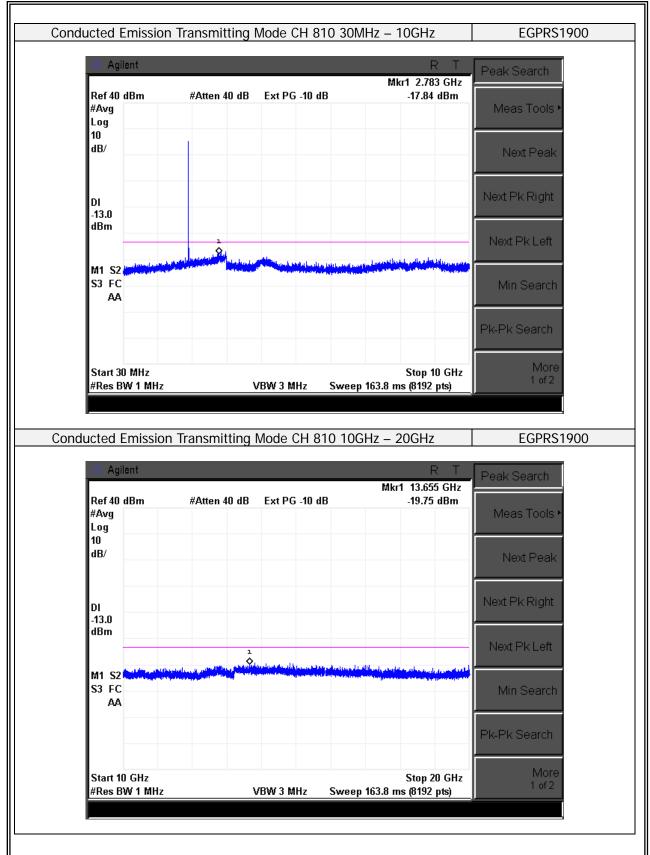




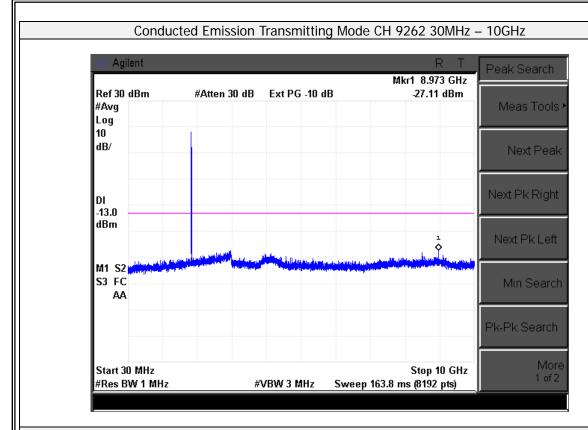


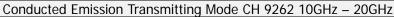


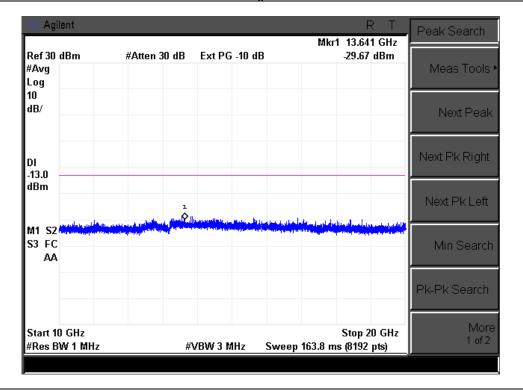




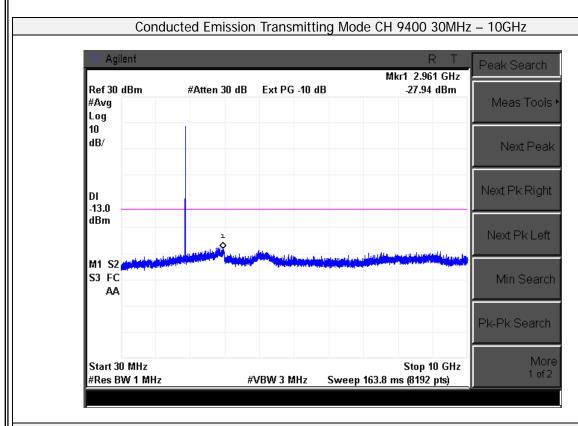


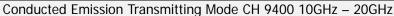


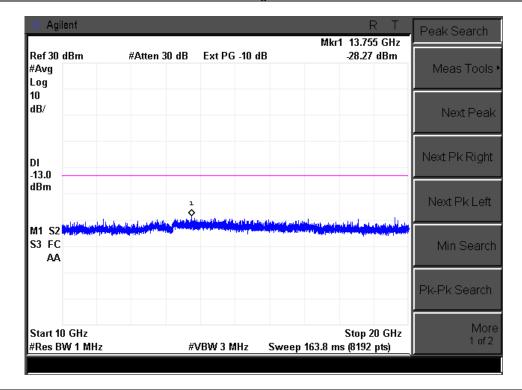




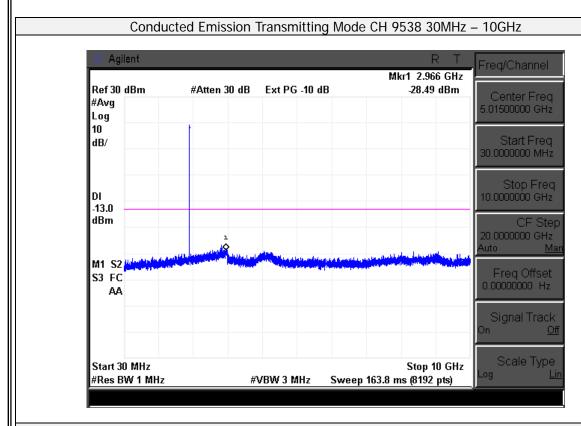


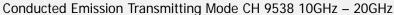


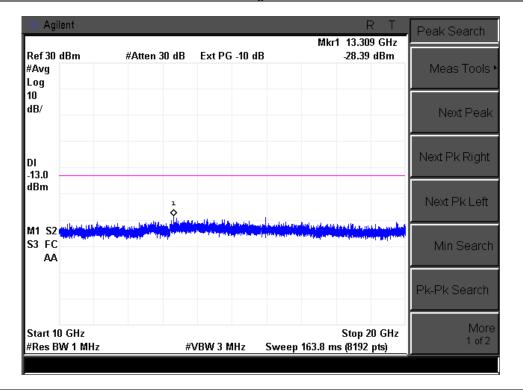




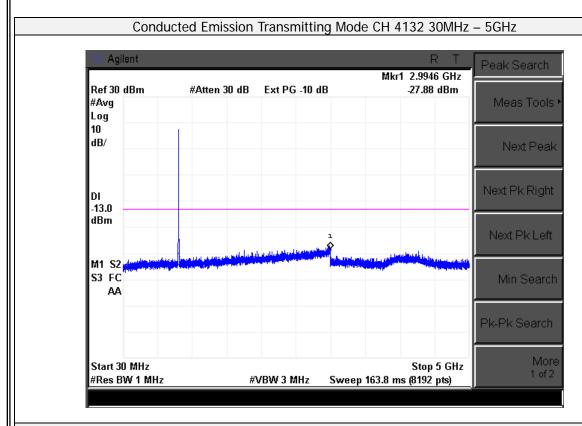




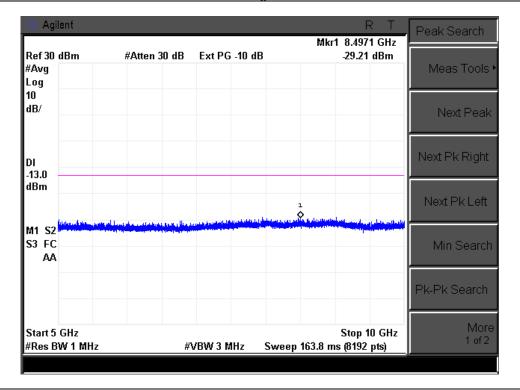




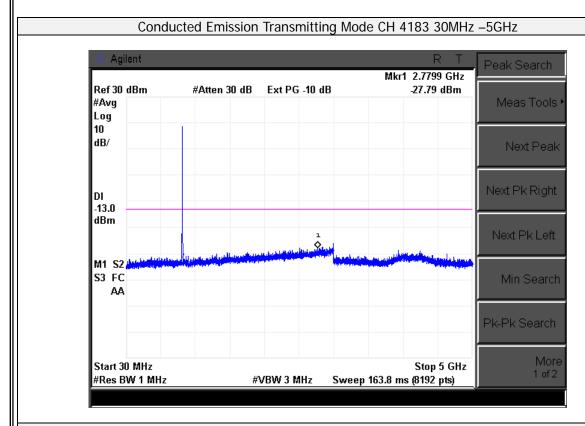




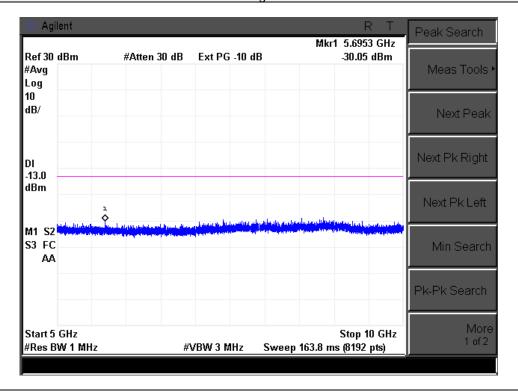




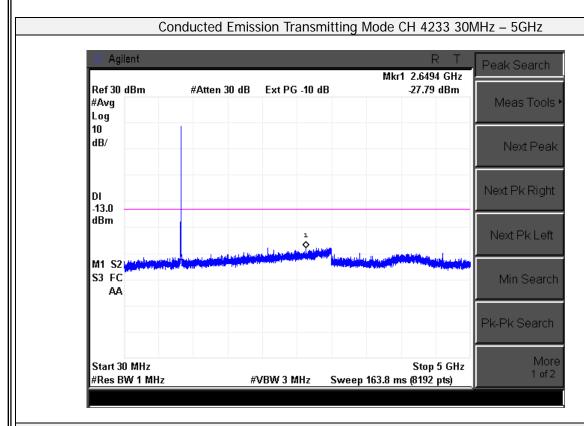




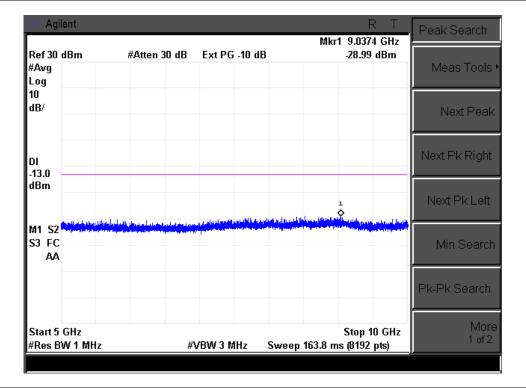












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