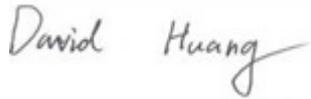


RF TEST REPORT



Report No.: 17070225-FCC-R1

Supersede Report No.: N/A

Applicant	Shenzhen Konka Telecommunications Technology Co., Ltd.	
Product Name	Smart Phone	
Model No.	ADR9	
Serial No.	N/A	
Test Standard	FCC Part 22(H):2016 ;FCC Part 24(E):2016; ANSI/TIA-603-D: 2010	
Test Date	March 29 to April 16, 2017	
Issue Date	April 17, 2017	
Test Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	
Equipment complied with the specification	<input checked="" type="checkbox"/>	
Equipment did not comply with the specification	<input type="checkbox"/>	
		
Loren Luo Test Engineer	David Huang Checked By	
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only		

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

Zone A, Floor 1, Building 2 Wan Ye Long Technology Park

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Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety

Test Report	17070225-FCC-R1
Page	3 of 91

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CONTENTS

1. REPORT REVISION HISTORY	5
2. CUSTOMER INFORMATION.....	5
3. TEST SITE INFORMATION	5
4. EQUIPMENT UNDER TEST (EUT) INFORMATION	6
5. TEST SUMMARY	9
6. MEASUREMENTS, EXAMINATION AND DERIVED RESULTS.....	11
6.1 RF EXPOSURE (SAR)	11
6.2 RF OUTPUT POWER.....	12
6.3 PEAK-AVERAGE RATIO.....	24
6.4 OCCUPIED BANDWIDTH	28
6.5 SPURIOUS EMISSIONS AT ANTENNA TERMINALS	39
6.6 SPURIOUS RADIATED EMISSIONS.....	52
6.7 BAND EDGE	58
6.8 FREQUENCY STABILITY.....	68
ANNEX A. TEST INSTRUMENT	72
ANNEX B. EUT AND TEST SETUP PHOTOGRAPHS.....	74
ANNEX C. TEST SETUP AND SUPPORTING EQUIPMENT.....	87
ANNEX C.II. EUT OPERATING CONKITIONS	89
ANNEX D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PARTLIST	90
ANNEX E. DECLARATION OF SIMILARITY	91

1. Report Revision History

Report No.	Report Version	Description	Issue Date
17070225-FCC-R1	NONE	Original	April 17, 2017

2. Customer information

Applicant Name	Shenzhen Konka Telecommunications Technology Co., Ltd.
Applicant Add	No.9008 Shennan Road,Overseas Chinese Town, ShenZhen, Guangdong,China
Manufacturer	Shenzhen Konka Telecommunications Technology Co., Ltd.
Manufacturer Add	No.9008 Shennan Road,Overseas Chinese Town, ShenZhen, Guangdong,China

3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES
Lab Address	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108
FCC Test Site No.	718246
IC Test Site No.	4842E-1
Test Software	Radiated Emission Program-To Shenzhen(ICP-03A1)

4. Equipment under Test (EUT) Information

Description of EUT:	Smart Phone
Main Model:	ADR9
Serial Model:	N/A
Date EUT received:	March 28, 2017
Test Date(s):	March 29 to April 16, 2017
Equipment Category :	PCE
Antenna Gain:	GSM850: -0.43dBi PCS1900: 0.79dBi UMTS-FDD Band V: -0.43dBi UMTS-FDD Band II: 0.79dBi LTE Band IV: 0.89 dBi Bluetooth/BLE/WiFi: -0.56dBi GPS: 0.79dBi
Antenna Type:	PIFA antenna
Type of Modulation:	GSM / GPRS: GMSK EGPRS: GMSK,8PSK UMTS-FDD: QPSK LTE Band: QPSK, 16QAM 802.11b/g/n: DSSS, OFDM Bluetooth: GFSK, π /4DQPSK, 8DPSK BLE: GFSK GPS:BPSK
RF Operating Frequency (ies):	GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz; RX: 1932.4 ~ 1987.6 MHz LTE Band IV TX: 1710.7 ~ 1754.3 MHz; RX : 2110.7 ~ 2154.3 MHz WIFI: 802.11b/g/n(20M): 2412-2462 MHz

WIFI: 802.11n(40M): 2422-2452 MHz
 Bluetooth& BLE: 2402-2480 MHz
 GPS: 1575.42 MHz

GSM Voice:GSM850: 32.38 dBm

PCS1900: 29.90 dBm

GPRS:GSM850: 32.40 dBm

PCS1900: 29.79 dBm

EGPRS(MCS1):GSM850: 32.36 dBm

PCS1900: 29.27 dBm

Maximum Conducted

EGPRS(MCS5):GSM850: 27.57 dBm

AV Power to Antenna:

PCS1900: 25.69 dBm

RMC:UMTS-FDD Band V: 23.66 dBm

UMTS-FDD Band II: 22.67 dBm

HSUPA:UMTS-FDD Band V: 22.56 dBm

UMTS-FDD Band II: 21.51 dBm

HSDPA:UMTS-FDD Band V: 22.56 dBm

UMTS-FDD Band II: 21.59 dBm

GSM Voice:GSM850: 29.80 dBm / ERP

PCS1900: 30.69 dBm / EIRP

GPRS:GSM850: 29.82 dBm / ERP

PCS1900: 30.58 dBm / EIRP

EGPRS(MCS5):GSM850: 25.11 dBm / ERP

PCS1900: 26.48 dBm / EIRP

ERP/EIRP:

RMC:UMTS-FDD Band V: 21.08 dBm / ERP

UMTS-FDD Band II: 23.46 dBm / EIRP

HSDPA:UMTS-FDD Band V: 19.98 dBm / ERP

UMTS-FDD Band II: 22.30 dBm / EIRP

HSUPA:UMTS-FDD Band V: 19.98 dBm / ERP

UMTS-FDD Band II: 22.38 dBm / EIRP

GSM 850: 124CH

PCS1900: 299CH

Number of Channels:

UMTS-FDD Band V: 102CH

UMTS-FDD Band II: 277CH

WIFI :802.11b/g/n(20M): 11CH

WIFI :802.11n(40M): 7CH

Bluetooth: 79CH

BLE: 40CH

GPS:1CH

Port: USB Port, Earphone Port

Adapter:

Model: HJ-050100-AR

Input: AC100-240V~50/60Hz,0.15A

Input Power: Output: DC 5.0V,1.0A

Battery:

Model: KLB250P373

Spec : 3.8V,2500mAh,9.5Wh

Maximum chargeable voltage: 4.35V

Trade Name : ADMIRAL

GPRS/ EGPRS Multi-slot class 8/10/12

FCC ID: UT3ADR9

5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result
§ 1.1307; § 2.1093	RF Exposure (SAR)	Compliance
§2.1046; § 22.913(a); § 24.232(c); § 27.50(c.10) ;	RF Output Power	Compliance
§ 24.232 (d) ;	Peak-Average Ratio	Compliance
§ 2.1049; § 22.905; § 22.917; § 24.238;	99% & -26 dB Occupied Bandwidth	Compliance
§ 2.1051; § 22.917(a); § 24.238(a);	Spurious Emissions at Antenna Terminal	Compliance
§ 2.1053; § 22.917(a); § 24.238(a);	Field Strength of Spurious Radiation	Compliance
§ 22.917(a); § 24.238(a);	Out of band emission, Band Edge	Compliance
§ 2.1055; § 22.355; § 24.235;	Frequency stability vs. temperature Frequency stability vs. voltage	Compliance

Note: Testing was performed by configuring EUT to maximum output power status, the declared output power class for different

Measurement Uncertainty

Parameter	Uncertainty
AC Power Line Conducted Emissions (150kHz~30MHz)	$\pm 3.71\text{dB}$
Radiated Emission(30MHz~1GHz)	$\pm 5.12\text{dB}$
Radiated Emission(1GHz~6GHz)	$\pm 5.34\text{dB}$

6. MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

6.1 RF Exposure (SAR)

Test Result: Pass

The EUT is a portable device, thus requires SAR evaluation;

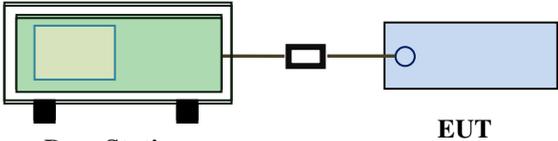
Please refer to RF Exposure Evaluation Report: 17070225-FCC-H.

6.2 RF Output Power

Temperature	23 °C
Relative Humidity	56%
Atmospheric Pressure	1014mbar
Test date :	April 14, 2017
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§22.913 (a)	a)	ERP:38.45dBm	<input checked="" type="checkbox"/>
§24.232 (c)	b)	EIRP:33dBm	<input checked="" type="checkbox"/>

Test Setup	 <p style="text-align: center;">Base Station EUT</p>
------------	--

Test Procedure	<p>For Conducted Power:</p> <ul style="list-style-type: none"> - The transmitter output port was connected to base station. - Set EUT at maximum power through base station. - Select lowest, middle, and highest channels for each band and different test mode. <p>For ERP/EIRP:</p> <p>According with KDB 971168 v02r02</p> <ul style="list-style-type: none"> - The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable. - The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis. - The frequency range up to tenth harmonic of the fundamental frequency was investigated.
----------------	---

	<ul style="list-style-type: none"> - Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution. - Spurious emissions in dB = 10 log (TX power in Watts/0.001) – the absolute level - Spurious attenuation limit in dB = 43 + 10 Log10 (power out in Watts).
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data Yes N/A
 Test Plot Yes (See below) N/A

Conducted Power

GSM Mode:

Burst Average Power (dBm);								
Band	GSM850				PCS1900			
Channel	128	190	251	Tune up Power tolerant	512	661	810	Tune up Power tolerant
Frequency (MHz)	824.2	836.6	848.8	/	1850.2	1880	1909.8	/
GSM Voice (1 uplink),GMSK	32.38	32.35	32.35	32±1	29.68	29.8	29.9	29±1
GPRS Multi-Slot Class 8 (1 uplink),GMSK	32.4	32.36	32.34	32±1	29.65	29.56	29.79	29±1
GPRS Multi-Slot Class 10 (2 uplink) GMSK	31.53	31.5	31.51	31±1	28.81	28.8	28.33	28±1
GPRS Multi-Slot Class 12 (4 uplink) GMSK	28.58	28.54	28.55	28±1	25.65	25.69	25.64	25±1
EGPRS Multi-Slot Class 8 (1 uplink) GMSK MCS1	32.36	32.3	32.3	32±1	29.27	29.19	29.04	29±1
EGPRS Multi-Slot Class 10 (2 uplink) GMSK MCS1	31.55	31.49	31.48	32±1	28.79	28.74	28.71	28±1
EGPRS Multi-Slot Class 12 (4 uplink) GMSK MCS1	28.53	28.55	28.56	29±1	26.14	26.17	26.2	26±1
EGPRS Multi-Slot Class 8 (1 uplink) 8PSK MCS5	27.57	27.45	27.23	27±1	25.43	25.4	25.69	25±1
EGPRS Multi-Slot Class 10 (2 uplink) 8PSK MCS5	26.79	26.84	26.51	26±1	24.2	24.36	24.48	24±1
EGPRS Multi-Slot Class 12 (4 uplink) 8PSK MCS5	24.02	23.91	23.63	24±1	21.2	21.53	21.73	21.3±1

Test Report	17070225-FCC-R1
Page	15 of 91

Remark :

GPRS, CS1 coding scheme.

EGPRS, MCS1 coding scheme.

EGPRS, MCS5 coding scheme.

Multi-Slot Class 8 , Support Max 4 downlink, 1 uplink , 5 working link

Multi-Slot Class 10 , Support Max 4 downlink, 2 uplink , 5 working link

Multi-Slot Class 12 , Support Max 4 downlink, 4 uplink , 5 working link

UMTS Mode:

UMTS-FDD Band V

Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)	Tune up Power tolerant
RMC 12.2kbps	4132	826.4	23.66	23±1
	4175	835	23.49	23±1
	4233	846.6	23.54	23±1
HSDPA Subtest1	4132	826.4	22.51	22±1
	4175	835	22.51	22±1
	4233	846.6	22.53	22±1
HSDPA Subtest2	4132	826.4	22.54	22±1
	4175	835	22.51	22±1
	4233	846.6	22.51	22±1
HSDPA Subtest3	4132	826.4	22.53	22±1
	4175	835	22.56	22±1
	4233	846.6	22.51	22±1
HSDPA Subtest4	4132	826.4	22.51	22±1
	4175	835	22.51	22±1
	4233	846.6	22.49	22±1
HSUPA Subtest1	4132	826.4	22.48	22±1
	4175	835	22.46	22±1
	4233	846.6	22.48	22±1
HSUPA Subtest2	4132	826.4	22.44	22±1
	4175	835	22.41	22±1
	4233	846.6	22.51	22±1
HSUPA Subtest3	4132	826.4	22.56	22±1
	4175	835	22.49	22±1
	4233	846.6	22.48	22±1
HSUPA Subtest4	4132	826.4	22.43	22±1
	4175	835	22.49	22±1
	4233	846.6	22.48	22±1
HSUPA Subtest5	4132	826.4	22.47	22±1
	4175	835	22.46	22±1
	4233	846.6	22.41	22±1

UMTS-FDD Band II

Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)	Tune up Power tolerant
RMC 12.2kbps	9262	1852.4	22.67	22±1
	9400	1880	22.66	22±1
	9538	1907.6	22.31	22±1
HSDPA Subtest1	9262	1852.4	21.36	22±1
	9400	1880	21.45	22±1
	9538	1907.6	21.49	22±1
HSDPA Subtest2	9262	1852.4	21.51	22±1
	9400	1880	21.49	22±1
	9538	1907.6	21.48	22±1
HSDPA Subtest3	9262	1852.4	21.46	22±1
	9400	1880	21.43	22±1
	9538	1907.6	21.47	22±1
HSDPA Subtest4	9262	1852.4	21.45	22±1
	9400	1880	21.48	22±1
	9538	1907.6	21.51	22±1
HSUPA Subtest1	9262	1852.4	21.5	22±1
	9400	1880	21.56	22±1
	9538	1907.6	21.56	22±1
HSUPA Subtest2	9262	1852.4	21.56	22±1
	9400	1880	21.51	22±1
	9538	1907.6	21.51	22±1
HSUPA Subtest3	9262	1852.4	21.56	22±1
	9400	1880	21.56	22±1
	9538	1907.6	21.59	22±1
HSUPA Subtest4	9262	1852.4	21.45	22±1
	9400	1880	21.55	22±1
	9538	1907.6	21.53	22±1
HSUPA Subtest5	9262	1852.4	21.41	22±1
	9400	1880	21.41	22±1
	9538	1907.6	21.43	22±1

ERP & EIRP

GSM Voice

ERP for Cellular Band (Part 22H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
824.2	23.53	V	6.8	0.53	29.80	38.45
824.2	22.36	H	6.8	0.53	28.63	38.45
836.6	23.5	V	6.8	0.53	29.77	38.45
836.6	22.31	H	6.8	0.53	28.58	38.45
848.8	23.4	V	6.9	0.53	29.77	38.45
848.8	22.28	H	6.9	0.53	28.65	38.45

EIRP for PCS Band (Part 24E)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1850.2	23.44	V	7.88	0.85	30.47	33
1850.2	22.28	H	7.88	0.85	29.31	33
1880	23.56	V	7.88	0.85	30.59	33
1880	22.42	H	7.88	0.85	29.45	33
1909.8	23.68	V	7.86	0.85	30.69	33
1909.8	22.49	H	7.86	0.85	29.50	33

GPRS:

ERP for Cellular Band (Part 22H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
824.2	23.55	V	6.8	0.53	29.82	38.45
824.2	22.27	H	6.8	0.53	28.54	38.45
836.6	23.51	V	6.8	0.53	29.78	38.45
836.6	22.34	H	6.8	0.53	28.61	38.45
848.8	23.39	V	6.9	0.53	29.76	38.45
848.8	22.36	H	6.9	0.53	28.73	38.45

EIRP for PCS Band (Part 24E)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1850.2	23.41	V	7.88	0.85	30.44	33
1850.2	22.27	H	7.88	0.85	29.30	33
1880	23.32	V	7.88	0.85	30.35	33
1880	22.24	H	7.88	0.85	29.27	33
1909.8	23.57	V	7.86	0.85	30.58	33
1909.8	22.41	H	7.86	0.85	29.42	33

EGPRS (MCS5):

ERP for Cellular Band (Part 22H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
824.2	23.51	V	6.8	0.53	25.11	38.45
824.2	22.19	H	6.8	0.53	23.47	38.45
836.6	23.48	V	6.8	0.53	24.86	38.45
836.6	22.32	H	6.8	0.53	23.27	38.45
848.8	23.36	V	6.9	0.53	24.61	38.45
848.8	22.24	H	6.9	0.53	22.95	38.45

EIRP for PCS Band (Part 24E)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1850.2	19.19	V	7.88	0.85	26.22	33
1850.2	18	H	7.88	0.85	25.03	33
1880	19.16	V	7.88	0.85	26.19	33
1880	18.05	H	7.88	0.85	25.08	33
1909.8	19.47	V	7.86	0.85	26.48	33
1909.8	18.2	H	7.86	0.85	25.21	33

RMC

ERP for UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
826.4	14.81	V	6.8	0.53	21.08	38.45
826.4	13.74	H	6.8	0.53	20.01	38.45
835	14.64	V	6.8	0.53	20.91	38.45
835	13.58	H	6.8	0.53	19.85	38.45
846.6	14.59	V	6.9	0.53	20.96	38.45
846.6	13.5	H	6.9	0.53	19.87	38.45

EIRP for UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1852.4	16.43	V	7.88	0.85	23.46	33
1852.4	15.15	H	7.88	0.85	22.18	33
1880	16.42	V	7.88	0.85	23.45	33
1880	15.31	H	7.88	0.85	22.34	33
1907.6	16.09	V	7.86	0.85	23.10	33
1907.6	15.02	H	7.86	0.85	22.03	33

HSDPA

ERP for UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
826.4	13.69	V	6.8	0.53	19.96	38.45
826.4	12.5	H	6.8	0.53	18.77	38.45
835	13.71	V	6.8	0.53	19.98	38.45
835	12.56	H	6.8	0.53	18.83	38.45
846.6	13.58	V	6.9	0.53	19.95	38.45
846.6	12.37	H	6.9	0.53	18.74	38.45

EIRP for UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1852.4	15.27	V	7.88	0.85	22.30	33
1852.4	14.18	H	7.88	0.85	21.21	33
1880	15.25	V	7.88	0.85	22.28	33
1880	14.13	H	7.88	0.85	21.16	33
1907.6	15.29	V	7.86	0.85	22.30	33
1907.6	14.18	H	7.86	0.85	21.19	33

HSUPA

ERP for UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
826.4	13.71	V	6.8	0.53	19.98	38.45
826.4	12.68	H	6.8	0.53	18.95	38.45
835	13.64	V	6.8	0.53	19.91	38.45
835	12.55	H	6.8	0.53	18.82	38.45
846.6	13.56	V	6.9	0.53	19.93	38.45
846.6	12.42	H	6.9	0.53	18.79	38.45

EIRP for UMTS-FDD Band II (Part 24E)

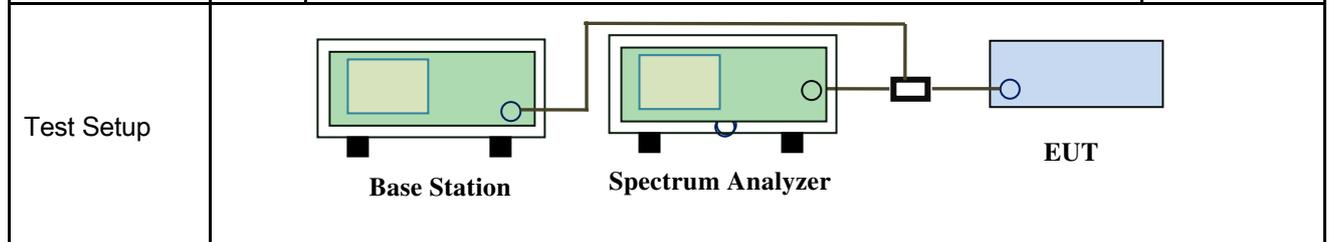
Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1852.4	15.32	V	7.88	0.85	22.35	33
1852.4	14.21	H	7.88	0.85	21.24	33
1880	15.32	V	7.88	0.85	22.35	33
1880	14.17	H	7.88	0.85	21.20	33
1907.6	15.37	V	7.86	0.85	22.38	33
1907.6	14.22	H	7.86	0.85	21.23	33

6.3 Peak-Average Ratio

Temperature	23°C
Relative Humidity	56%
Atmospheric Pressure	1014mbar
Test date :	April 14, 2017
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§24.232(d)	a)	The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.	<input checked="" type="checkbox"/>



Test Procedure	<p>According with KDB 971168 v02r02</p> <p>5.7.2 Alternate procedure for PAPR</p> <p>5.1.2 Peak power measurements with a peak power meter</p> <p>The total peak output power may be measured using a broadband peak RF power meter. The power meter must have a video bandwidth that is greater than or equal to the emission bandwidth and utilize a fast-responding diode detector.</p> <p>5.2.3 Average power measurement with average power meter</p> <p>As an alternative to the use of a spectrum/signal analyzer or EMI receiver to perform a measurement of the total in-band average output power, a wideband RF average power meter with a thermocouple detector or equivalent can be used under certain conditions</p> <p>If the EUT can be configured to transmit continuously (i.e., the burst duty cycle $\geq 98\%$) and at all times the EUT is transmitting at its maximum output</p>
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	<p>power level, then a conventional wide-band RF power meter can be used.</p> <p>If the EUT cannot be configured to transmit continuously (i.e., the burst duty cycle < 98%), then there are two options for the use of an average power meter. First, a gated average power meter can be used to perform the measurement if the gating parameters can be adjusted such that the power is measured only over active transmission bursts at maximum output power levels. A conventional average power meter can also be used if the measured burst duty cycle is constant (i.e., duty cycle variations are less than ± 2 percent) by performing the measurement over the on/off burst cycles and then correcting (increasing) the measured level by a factor equal to $10\log(1/\text{duty cycle})$</p>
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data Yes N/A
Test Plot Yes (See below) N/A

GSM : GSM 1900 PK-AV POWER (PART 24E)

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1850.2	30.74	29.68	1.06
1880	30.82	29.8	1.02
1909.8	30.92	29.9	1.02

GPRS 1900 PK-AV POWER (PART 24E)

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1850.2	30.71	29.65	1.06
1880	30.66	29.56	1.1
1909.8	30.83	29.79	1.04

EGPRS (MSC5) 1900 PK-AV POWER (PART 24E)

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1850.2	26.44	25.43	1.01
1880	26.42	25.4	1.02
1909.8	26.74	25.69	1.05

RMC : UMTS-FDD Band 2 PK-AV POWER (PART 24E)

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1852.4	25.68	22.67	3.01
1880	25.47	22.66	2.81
1907.6	25.33	22.31	3.02

HSDPA : UMTS-FDD Band 2 PK-AV POWER (PART 24E)

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1852.4	23.44	21.36	2.08
1880	23.56	21.45	2.11
1907.6	23.78	21.49	2.29

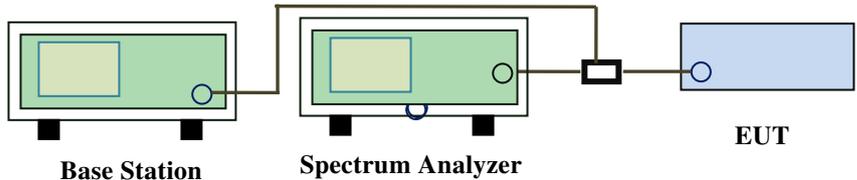
HSUPA : UMTS-FDD Band 2 PK-AV POWER (PART 24E)

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1852.4	23.66	21.5	2.16
1880	23.74	21.56	2.18
1907.6	23.59	21.56	2.03

6.4 Occupied Bandwidth

Temperature	22 °C
Relative Humidity	55%
Atmospheric Pressure	1013mbar
Test date :	April 13, 2017
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§2.1049, §22.917, §22.905 §24.238	a)	99% Occupied Bandwidth(kHz)	<input checked="" type="checkbox"/>
	b)	26 dB Bandwidth(kHz)	<input checked="" type="checkbox"/>
Test Setup	 <p style="text-align: center;">Base Station Spectrum Analyzer EUT</p>		
Test Procedure	<ul style="list-style-type: none"> - The EUT was connected to Spectrum Analyzer and Base Station via power divider. - The 99% and 26 dB occupied bandwidth (BW) of the middle channel for the highest RF powers. 		
Remark			
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

Test Data Yes N/A

Test Plot Yes (See below) N/A

GSM Voice:

Cellular Band (Part 22H) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
128	824.2	243.92	316.6
190	836.6	244.57	313.9
251	848.8	245.76	312.6

PCS Band (Part 24E) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
512	1850	243.85	318.5
661	1880	244.09	316.7
810	1910	246.96	317.0

GPRS:

Cellular Band (Part 22H) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
128	824.2	246.18	318.6
190	836.6	247.03	314.6
251	848.8	247.07	315.8

PCS Band (Part 24E) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
512	1850	244.73	316.0
661	1880	247.11	318.3
810	1910	246.64	314.5

EGPRS (MCS 5):

Cellular Band (Part 22H) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
128	824.2	245.14	314.8
190	836.6	246.26	317.5
251	848.8	243.65	314.6

PCS Band (Part 24E) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
512	1850	245.06	317.0
661	1880	244.41	314.0
810	1910	246.26	319.3

RMC:

UMTS-FDD Band V (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
4132	826.6	4.2064	4.833
4175	835.0	4.2013	4.846
4233	846.4	4.2068	4.865

UMTS-FDD Band II (Part 24E)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
9262	1853	4.2003	4.860
9400	1880	4.2045	4.869
9538	1907	4.2140	4.870

HSDPA:

UMTS-FDD Band V (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
4132	826.6	4.1990	4.857
4175	835.0	4.2087	4.846
4233	846.4	4.2186	4.861

UMTS-FDD Band II (Part 24E)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
9262	1853	4.2053	4.854
9400	1880	4.2032	4.878
9538	1907	4.2153	4.890

HSUPA:

UMTS-FDD Band V (Part 22H)

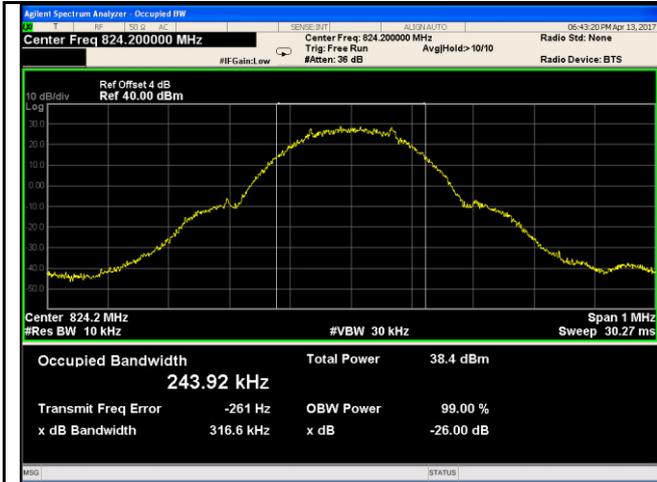
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
4132	826.6	4.1955	4.846
4175	835.0	4.2032	4.854
4233	846.4	4.2052	4.849

UMTS-FDD Band II (Part 24E)

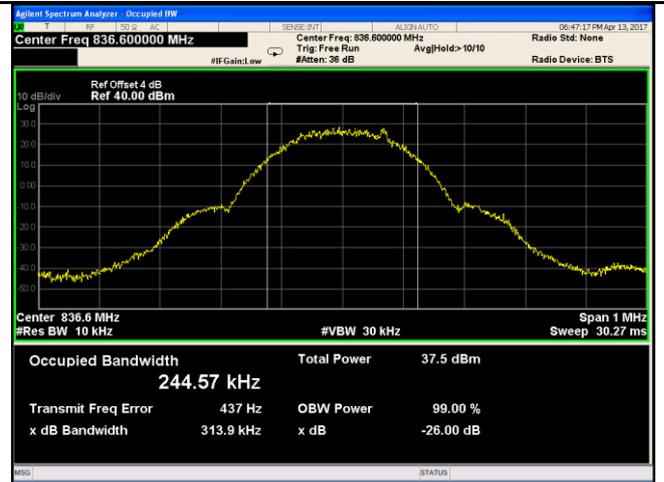
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
9262	1853	4.2106	4.858
9400	1880	4.2011	4.854
9538	1907	4.2051	4.872

Test Plots

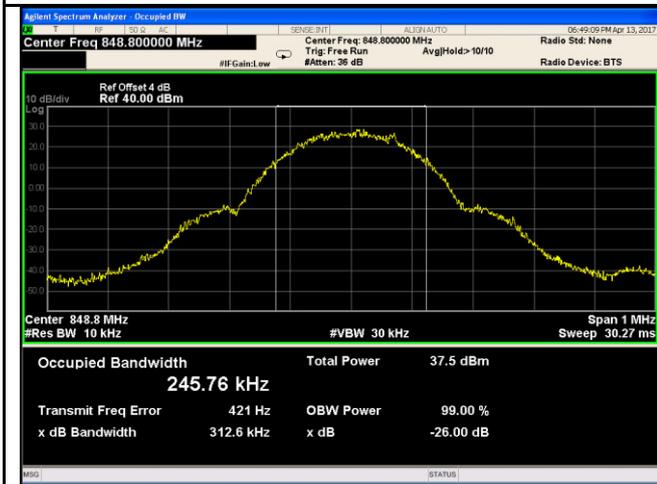
GSM Voice:



GSM 850 BW - Low CH 824.2MHz



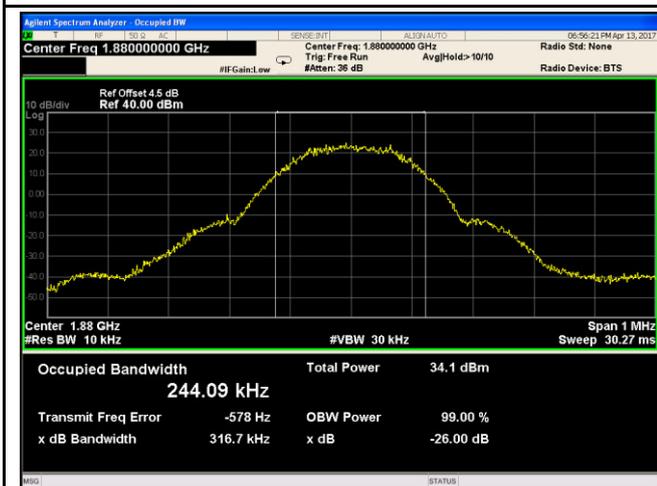
GSM 850 BW - Mid CH 836.6MHz



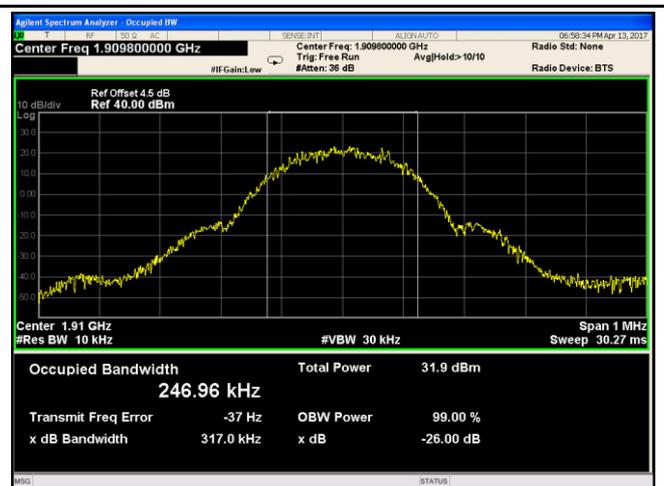
GSM 850 BW - High CH 848.8MHz



PCS 1900 BW - Low CH 1850.2MHz

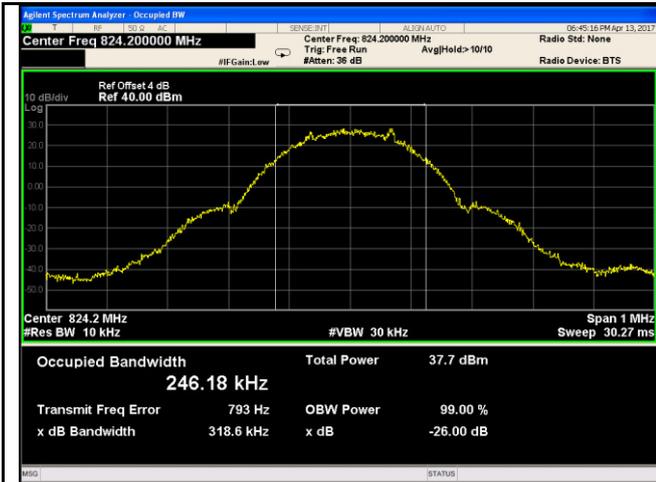


PCS 1900 BW - Mid CH 1880MHz

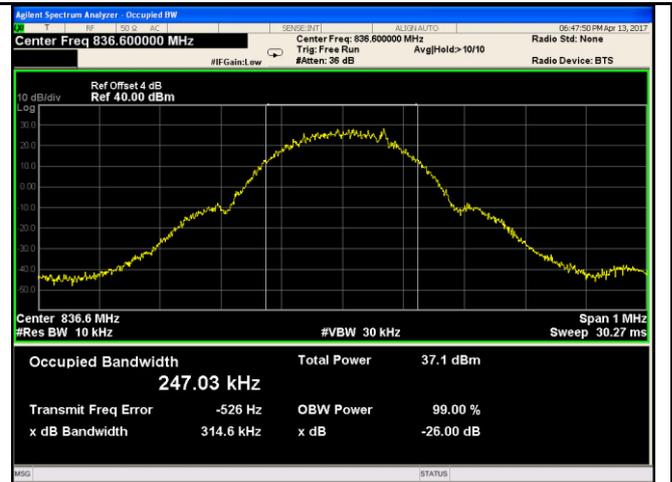


PCS 1900 BW - High CH 1909.8MHz

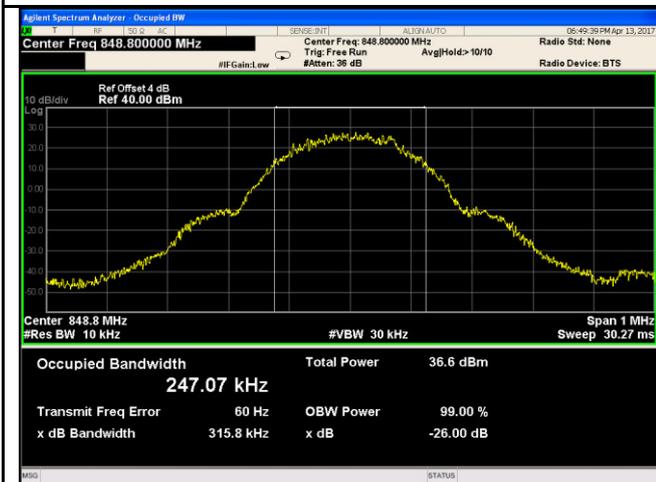
GPRS:



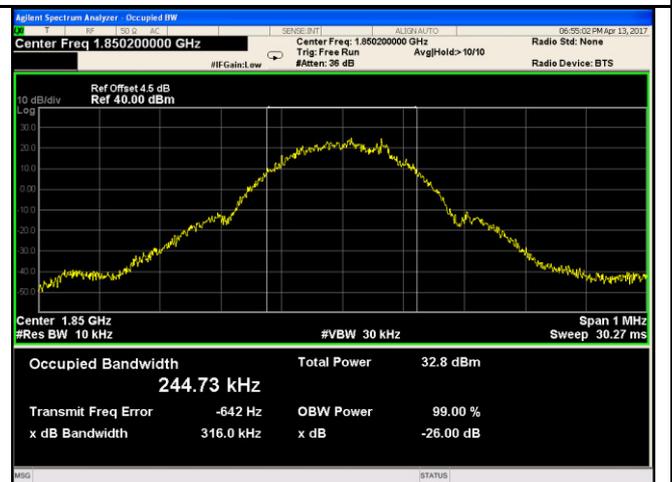
GSM 850 BW - Low CH 824.2MHz



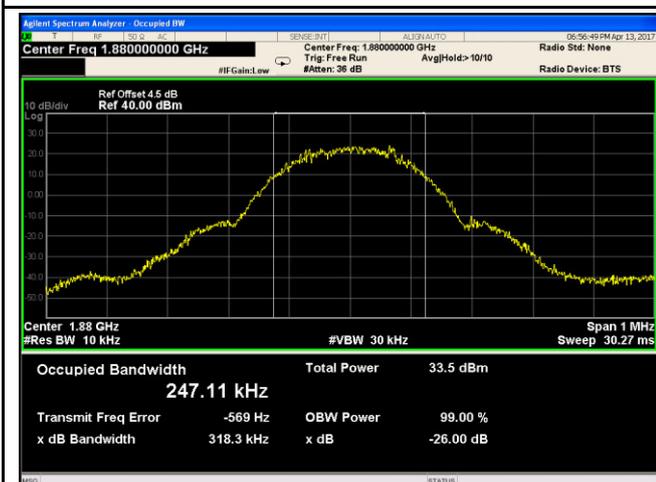
GSM 850 BW - Mid CH 836.6MHz



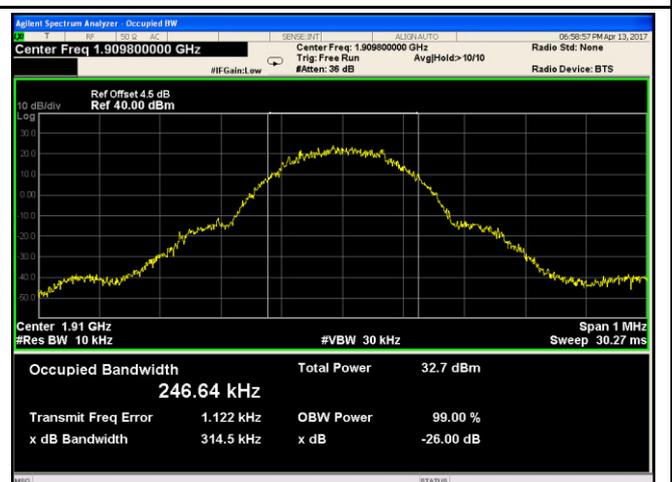
GSM 850 BW - High CH 848.8MHz



PCS 1900 BW - Low CH 1850.2MHz

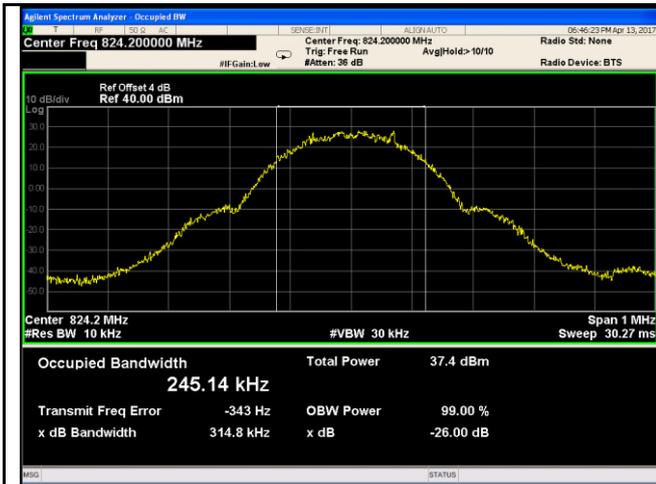


PCS 1900 BW - Mid CH 1880MHz

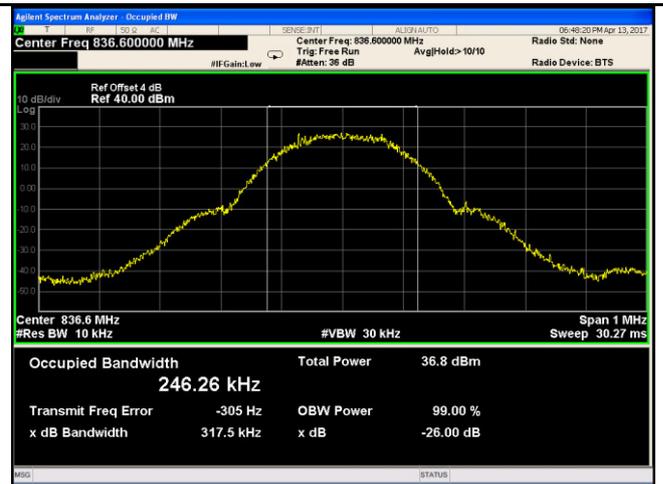


PCS 1900 BW - High CH 1909.8MHz

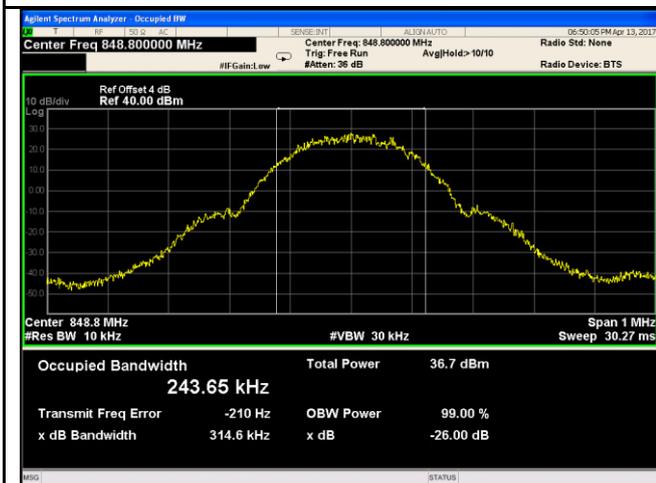
EGPRS (MCS5):



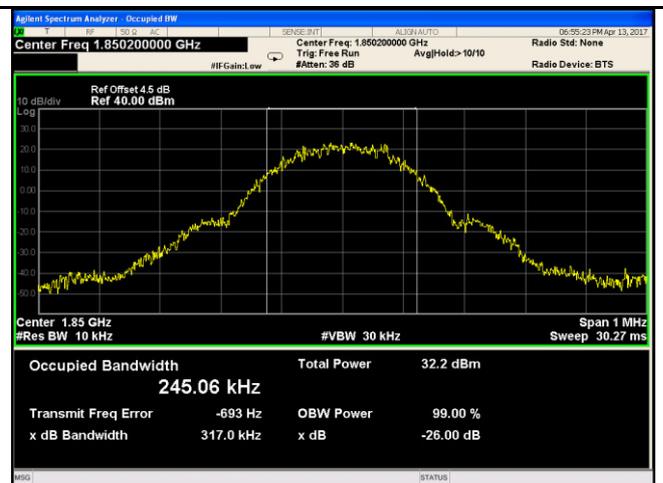
GSM 850 BW - Low CH 824.2MHz



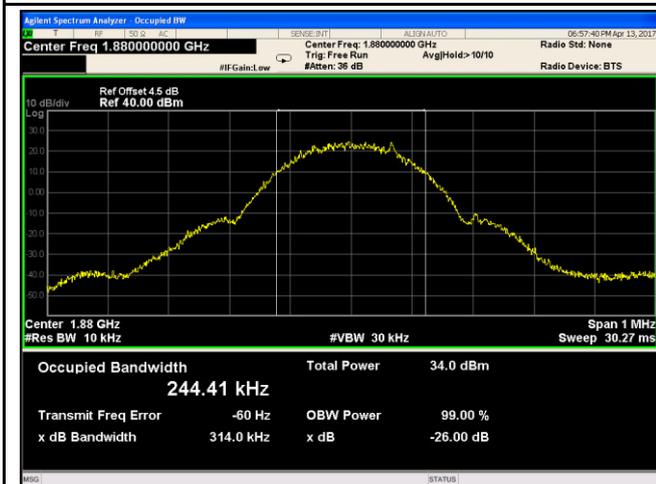
GSM 850 BW - Mid CH 836.6MHz



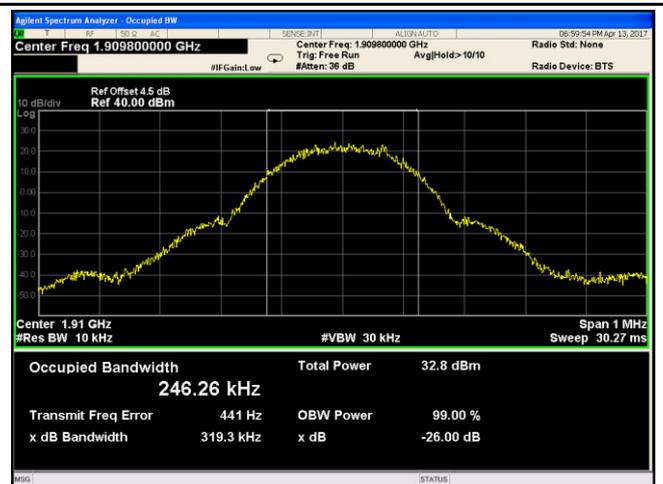
GSM 850 BW - High CH 848.8MHz



PCS 1900 BW - Low CH 1850.2MHz

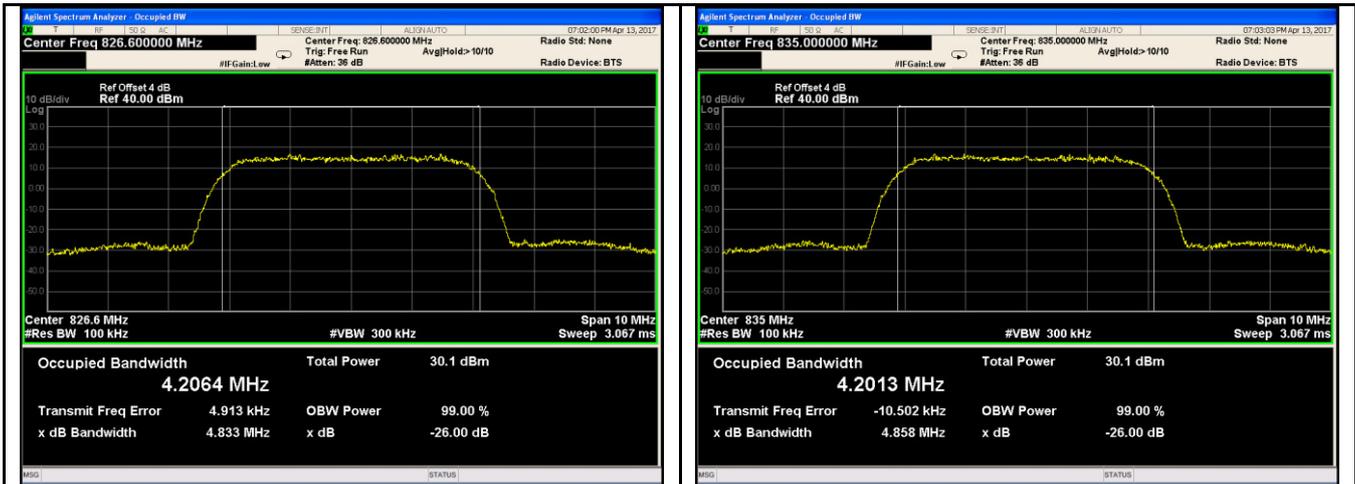


PCS 1900 BW - Mid CH 1880MHz



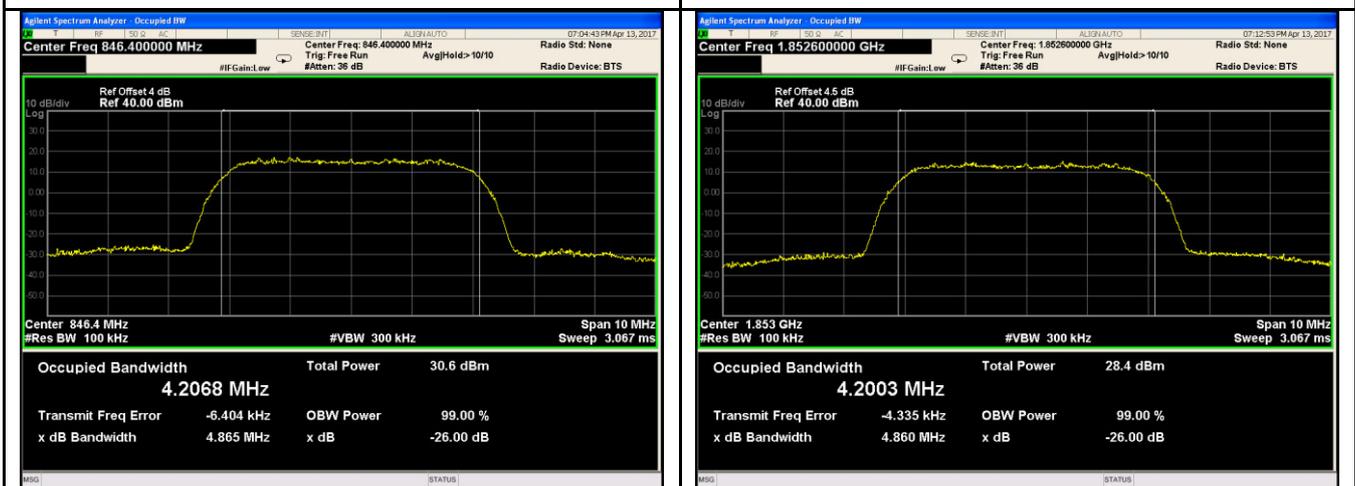
PCS 1900 BW - High CH 1909.8MHz

RMC:



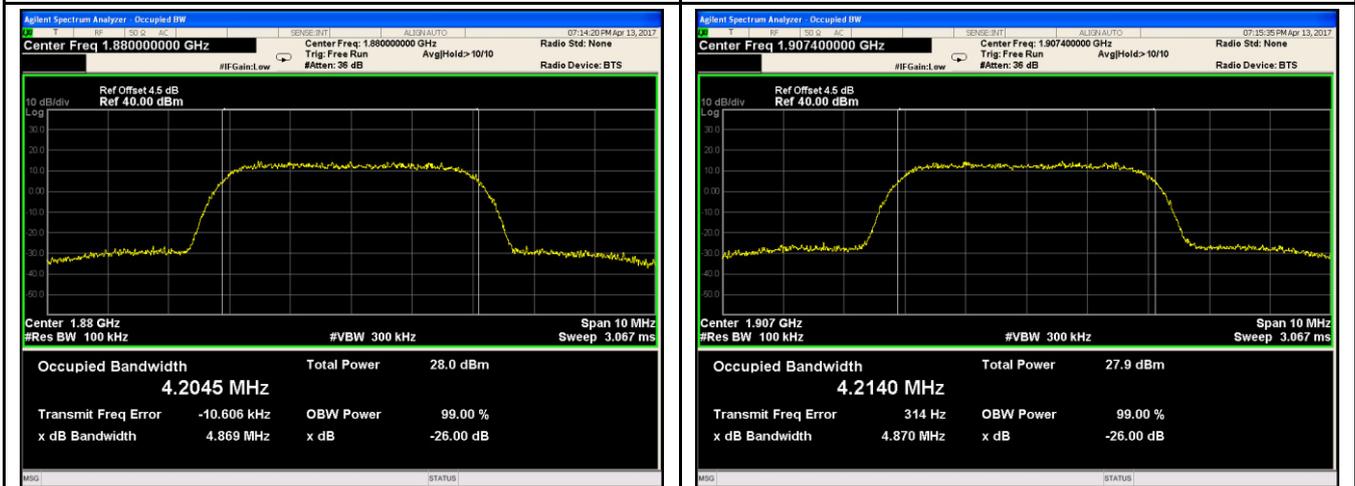
Band V BW - Low CH 826.6 MHz

Band V BW - Mid CH 835.0 MHz



Band V BW - High CH 846.4 MHz

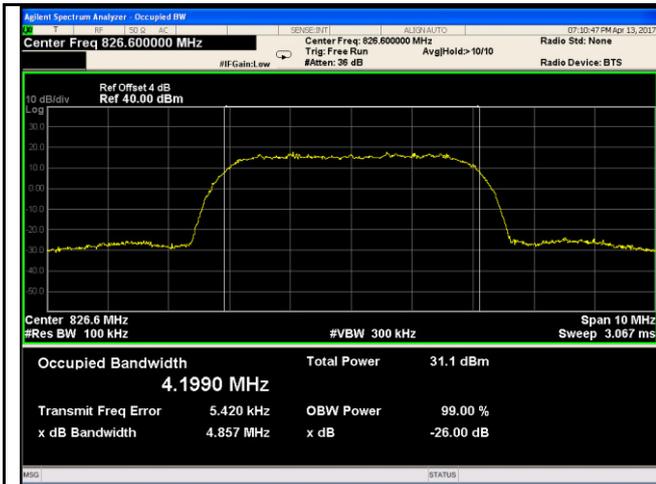
Band II BW - Low CH 1852.4MHz



Band II BW - Mid CH 1880MHz

Band II BW - High CH 1907.6MHz

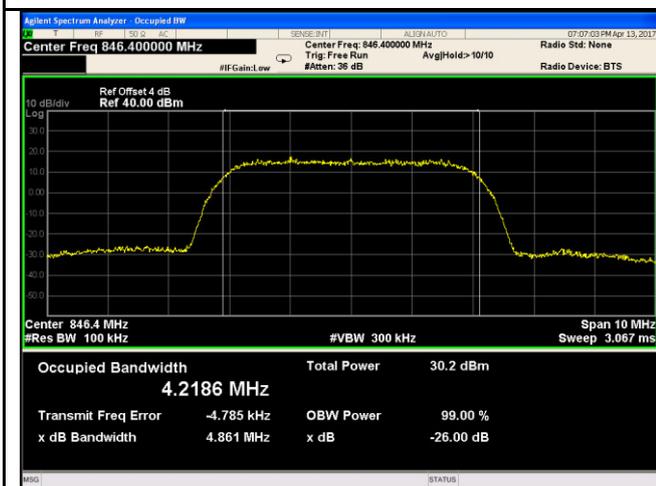
HSDPA:



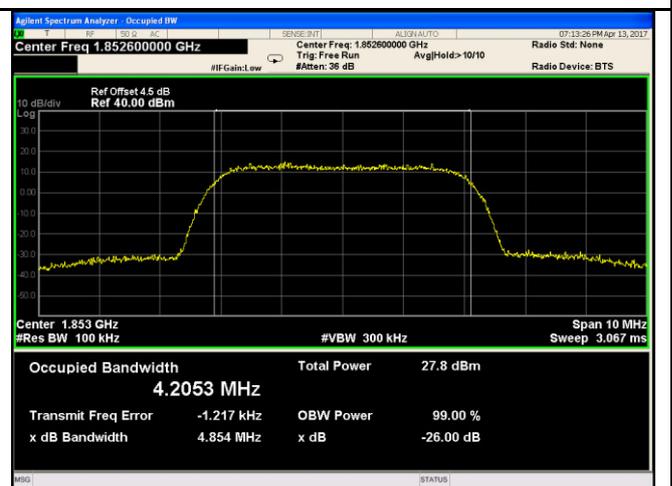
Band V BW - Low CH 826.6 MHz



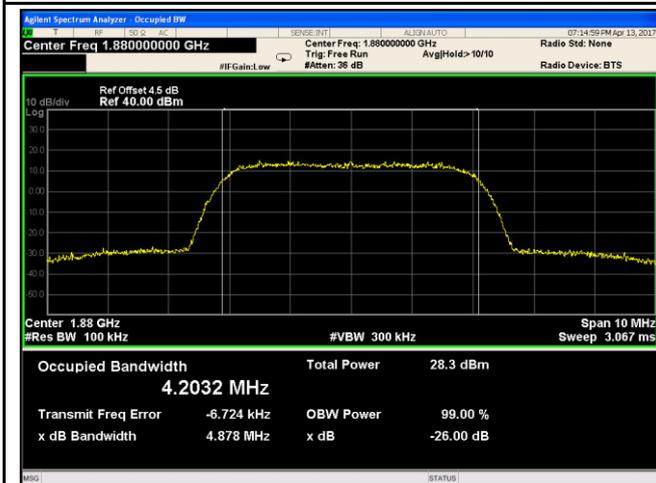
Band V BW - Mid CH 835.0 MHz



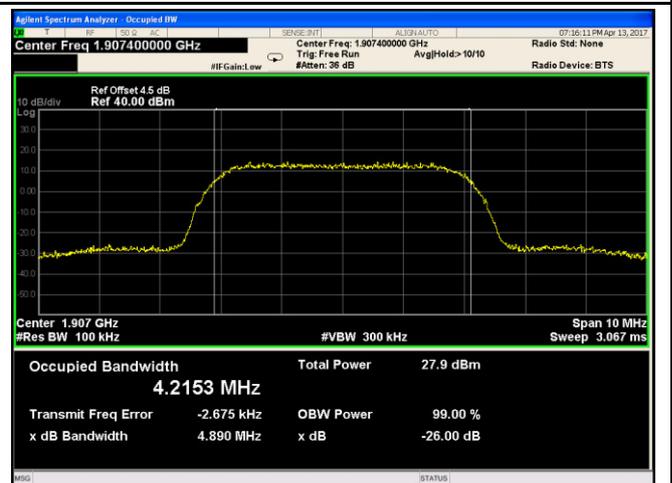
Band V BW - High CH 846.4 MHz



Band II BW - Low CH 1852.4MHz

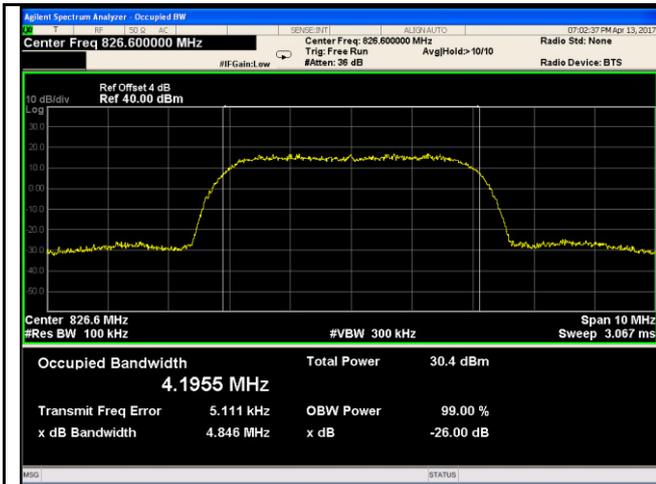


Band II BW - Mid CH 1880MHz

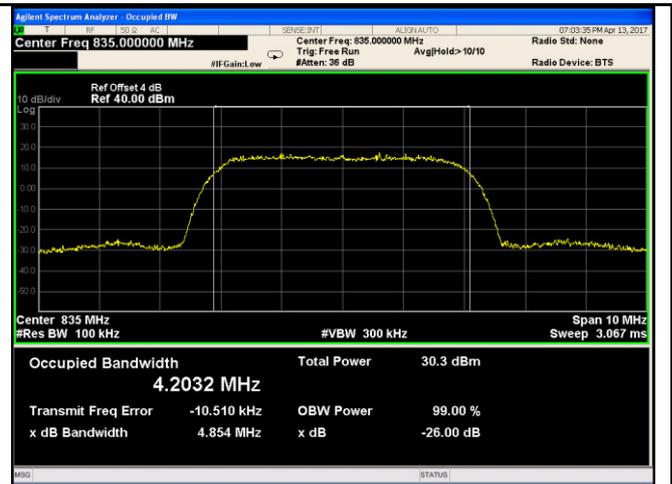


Band II BW - High CH 1907.6MHz

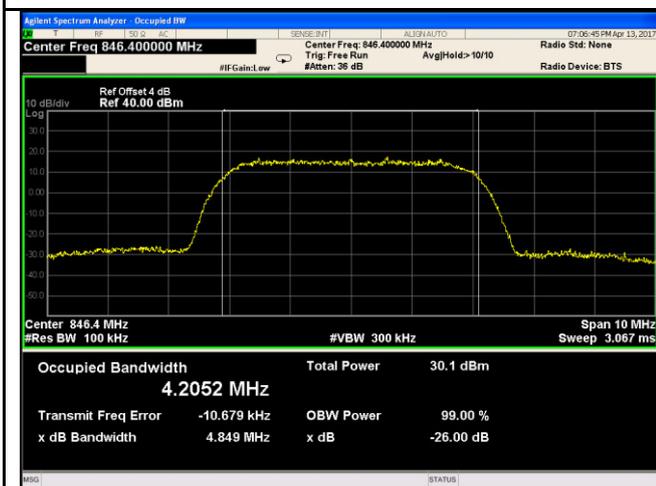
HSUPA:



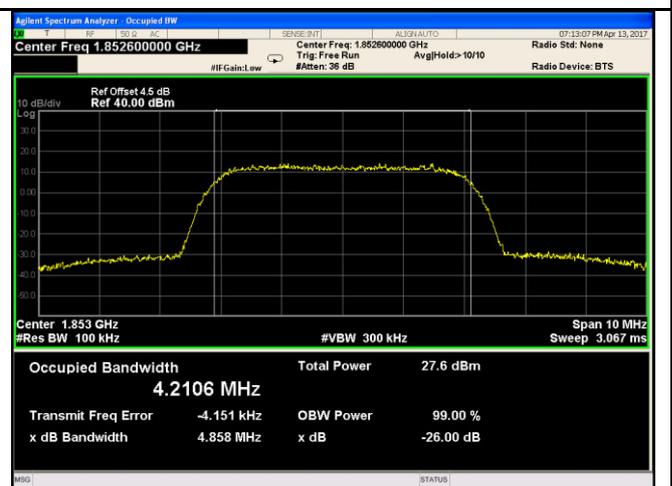
Band V BW - Low CH 826.6 MHz



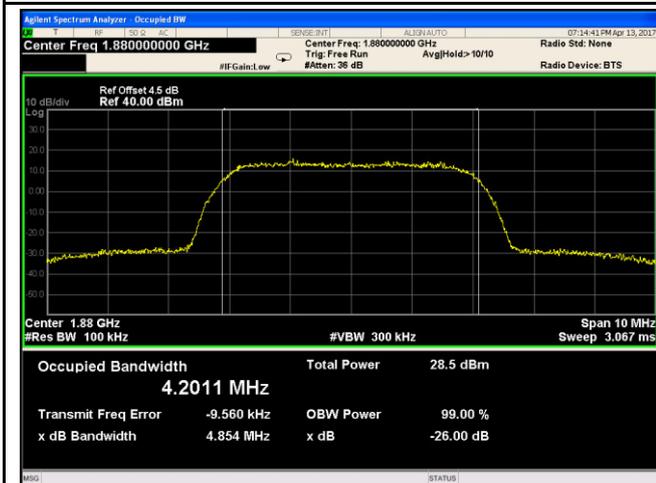
Band V BW - Mid CH 835.0 MHz



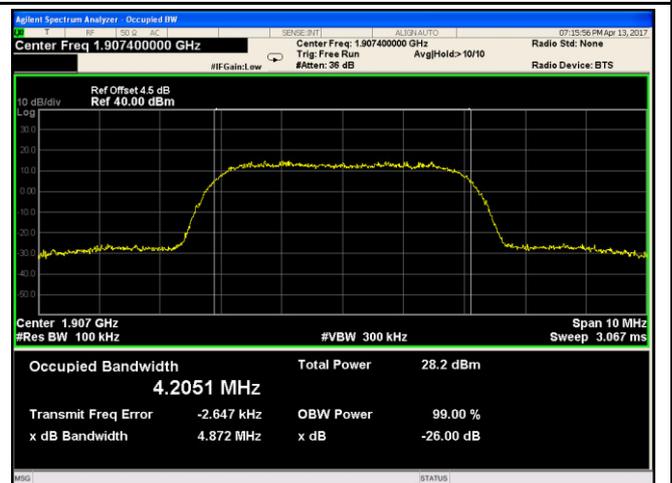
Band V BW - High CH 846.4 MHz



Band II BW - Low CH 1852.4 MHz



Band II BW - Mid CH 1880 MHz

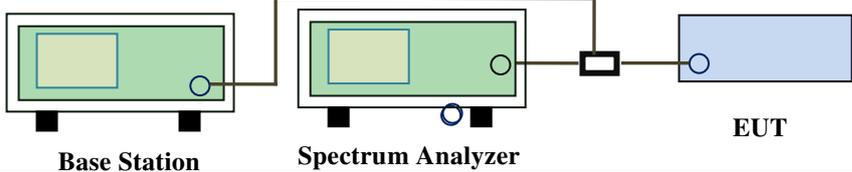


Band II BW - High CH 1907.6 MHz

6.5 Spurious Emissions at Antenna Terminals

Temperature	23 °C
Relative Humidity	56%
Atmospheric Pressure	1014mbar
Test date :	April 14, 2017
Tested By :	Loren Luo

Requirement(s):

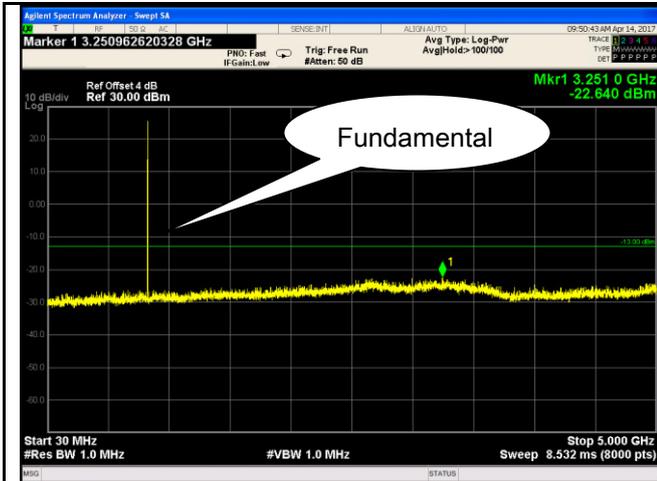
Spec	Item	Requirement	Applicable
§2.1051, §22.917(a)& §24.238(a)	a)	The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log(P)$ dB	<input checked="" type="checkbox"/>
Test Setup	 <p style="text-align: center;">Base Station Spectrum Analyzer EUT</p>		
Test Procedure	<ul style="list-style-type: none"> - The EUT was connected to Spectrum Analyzer and Base Station via power divider. - The Band Edges of low and high channels for the highest RF powers were measured. - Setting RBW as roughly BW/100. 		
Remark			
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

Test Data Yes N/A
 Test Plot Yes (See below) N/A

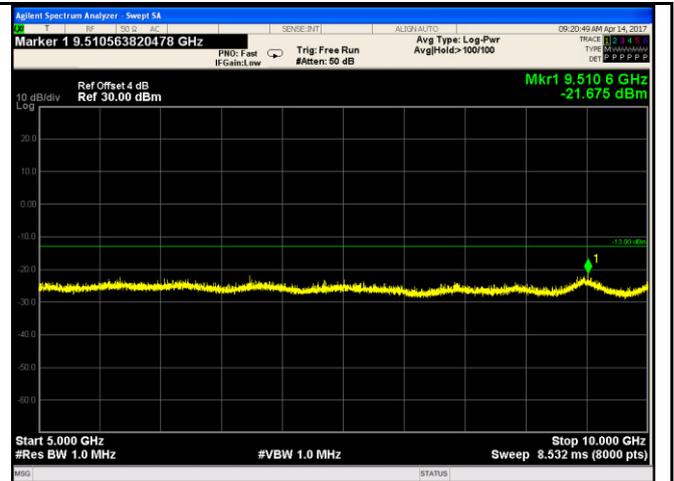
Test Plots

GSM Voice:

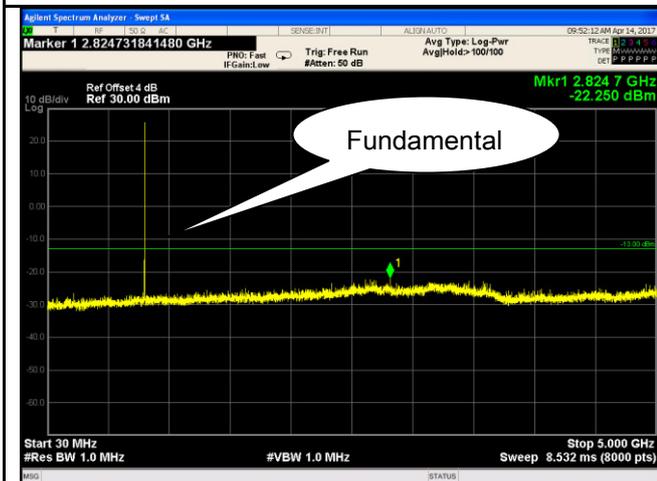
Cellular Band (Part 22H) result



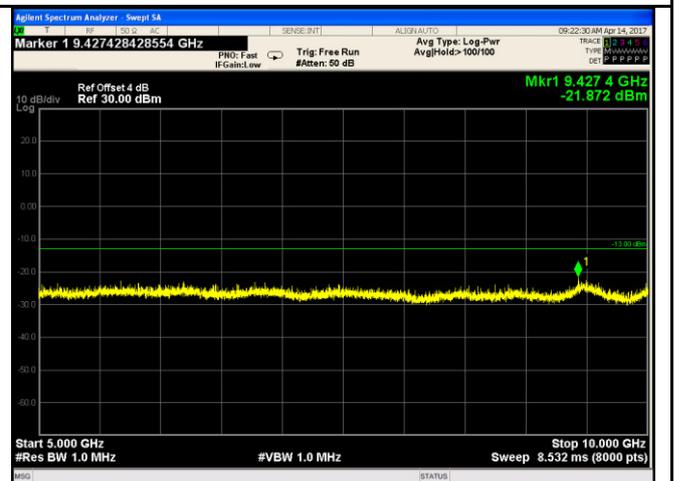
GSM 850 - Low Channel-1



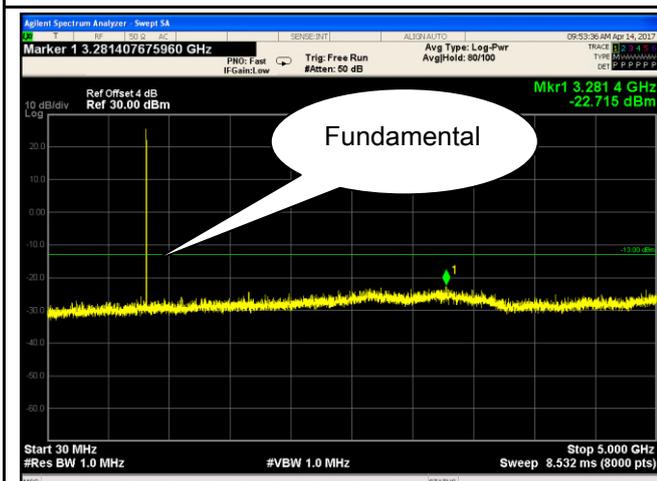
GSM 850 - Low Channel-2



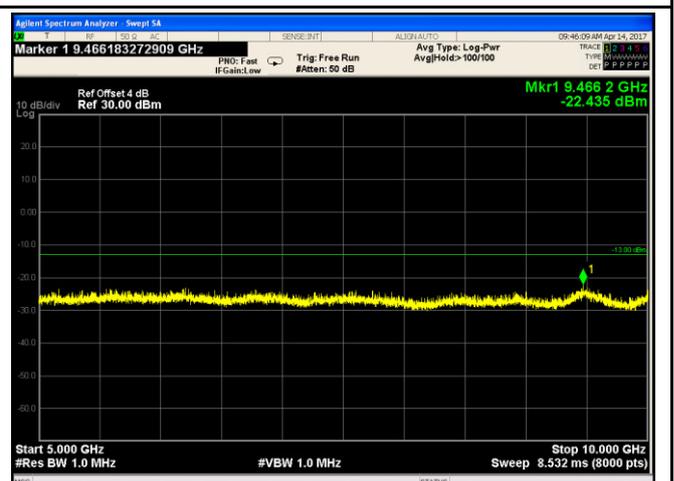
GSM 850 Middle Channel-1



GSM 850 Middle Channel-2

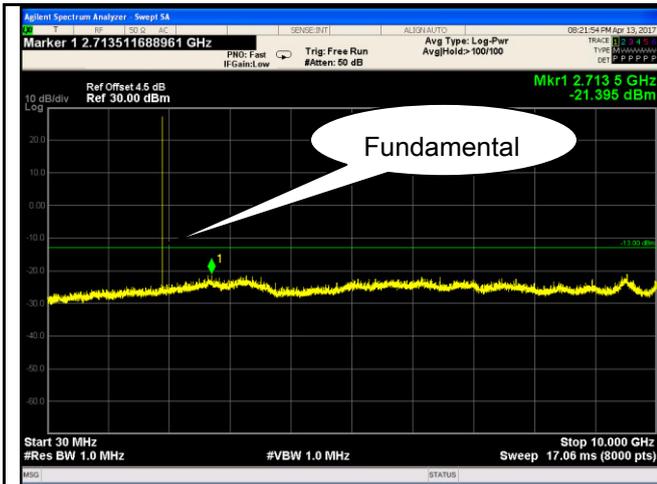


GSM 850 - High Channel-1

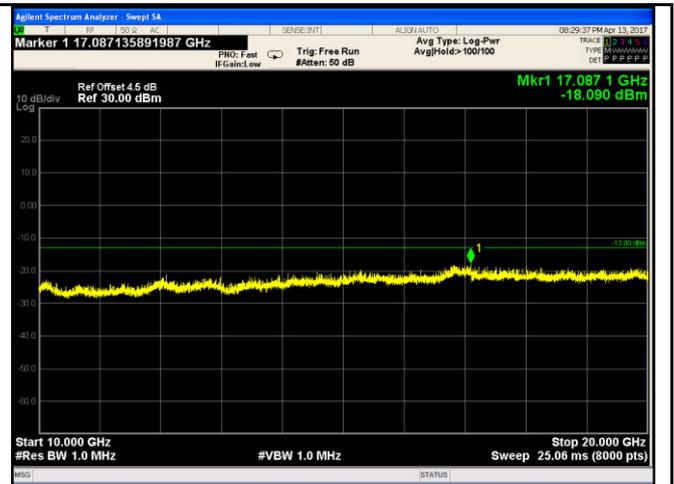


GSM 850 - High Channel-2

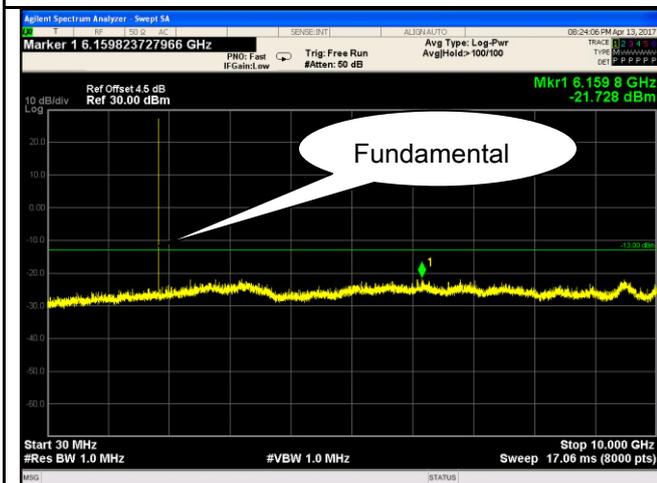
PCS Band (Part24E) result



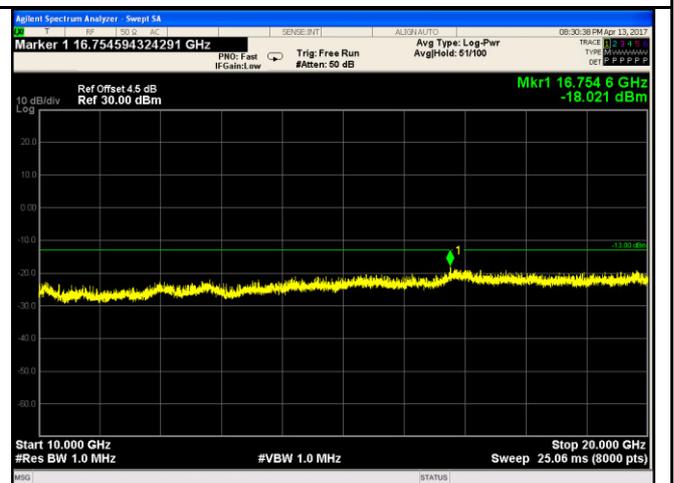
PCS1900 - Low Channel-1



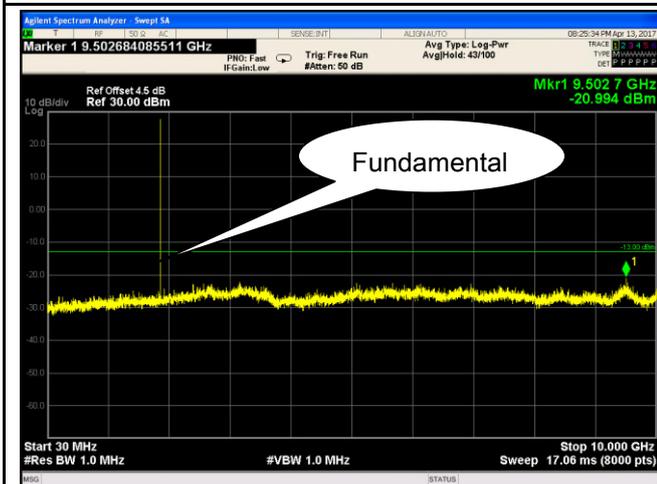
PCS 1900 - Low Channel-2



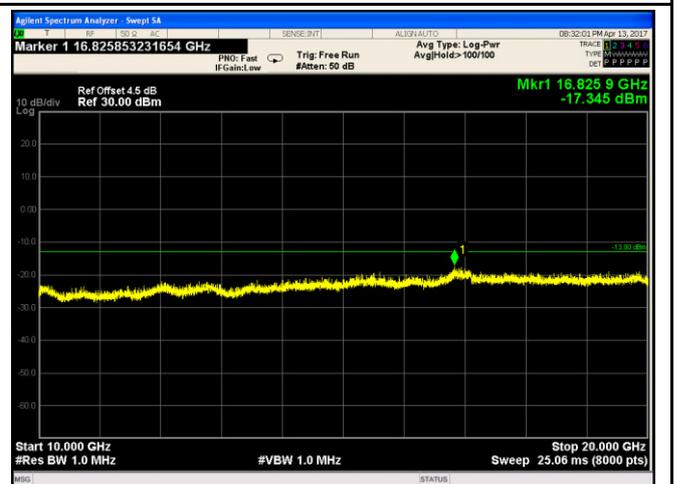
PCS1900 - Middle Channel-1



PCS 1900 - Middle Channel-2



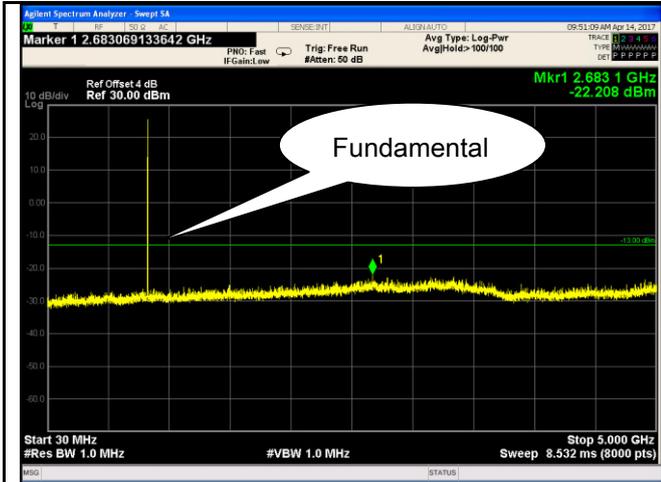
PCS1900 - High Channel-1



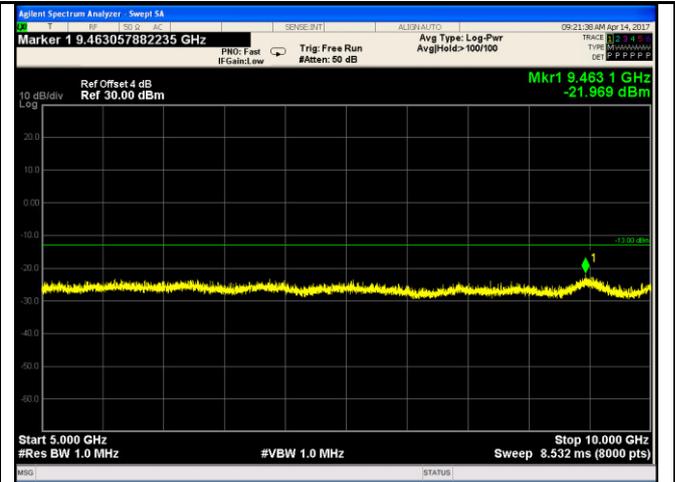
PCS 1900 - High Channel-2

GPRS:

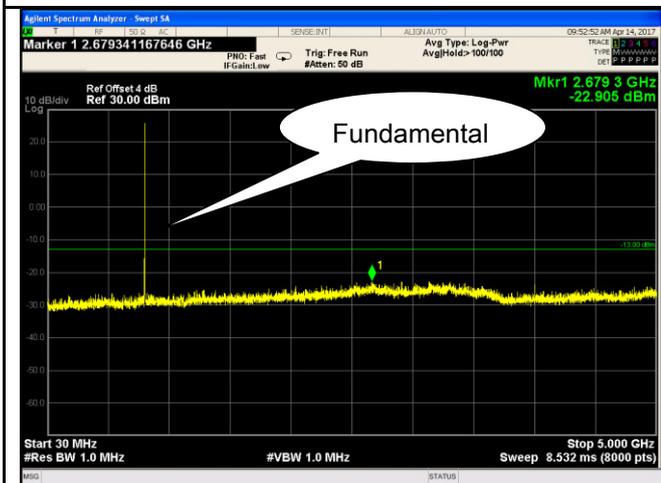
Cellular Band (Part 22H) result



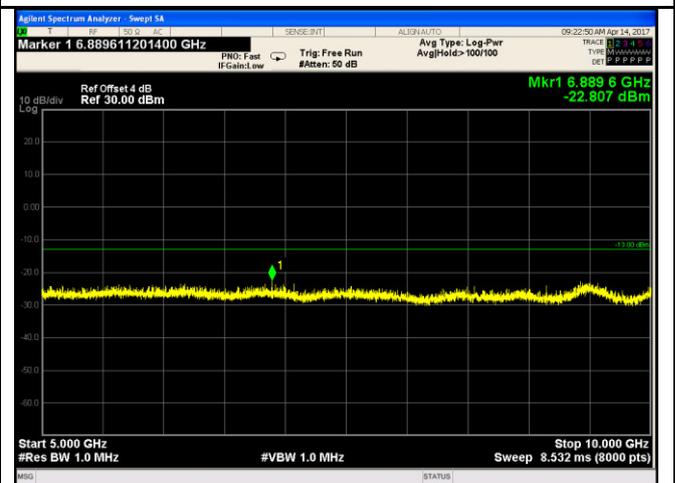
GSM 850 - Low Channel-1



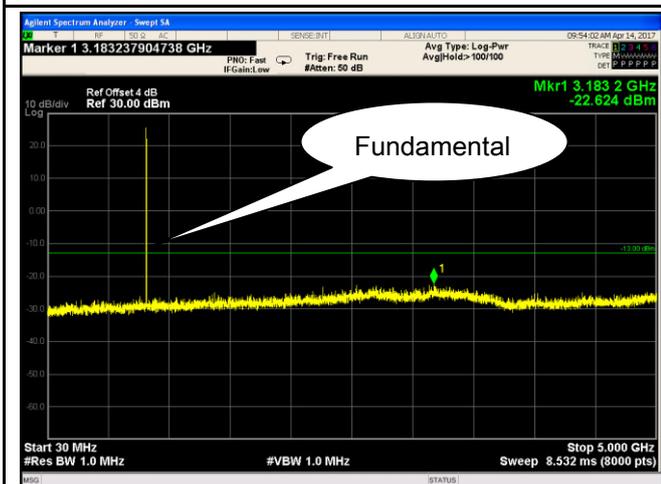
GSM 850 - Low Channel-2



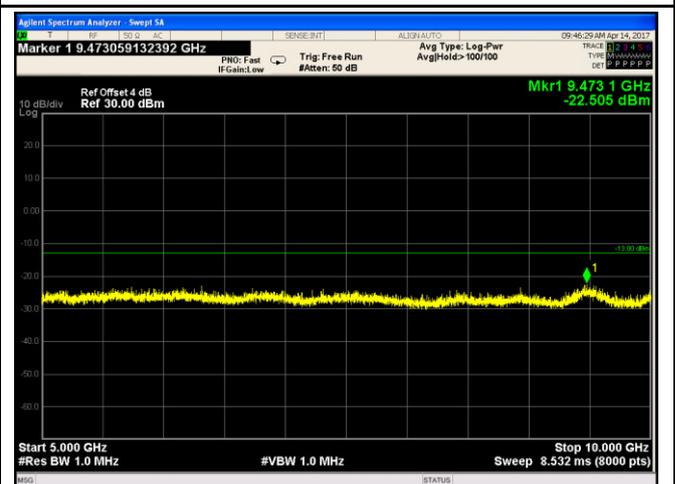
GSM 850 Middle Channel-1



GSM 850 Middle Channel-2

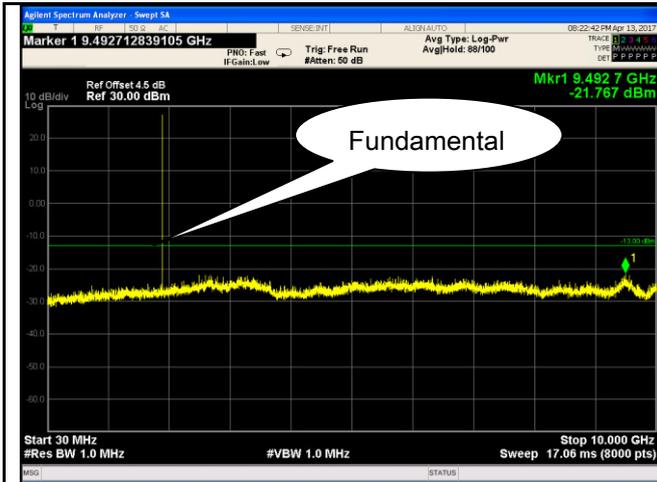


GSM 850 - High Channel-1

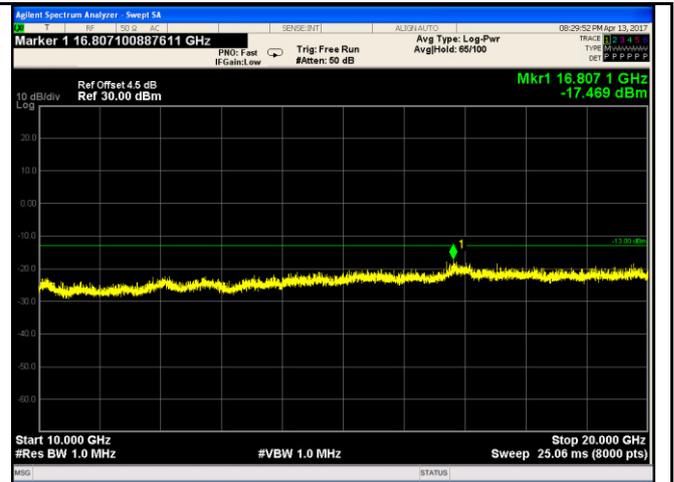


GSM 850 - High Channel-2

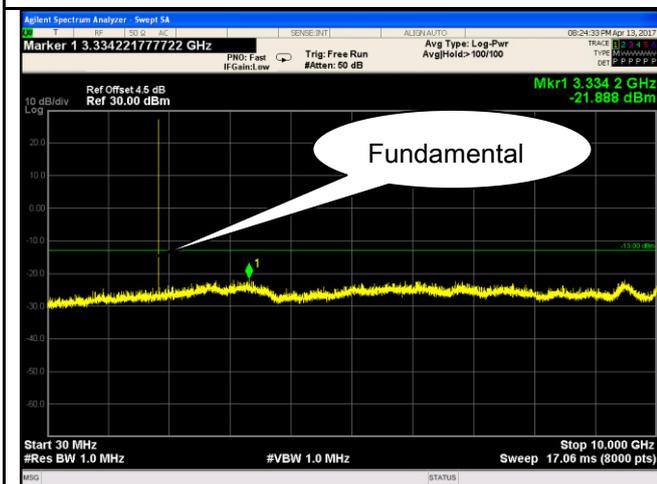
PCS Band (Part24E) result



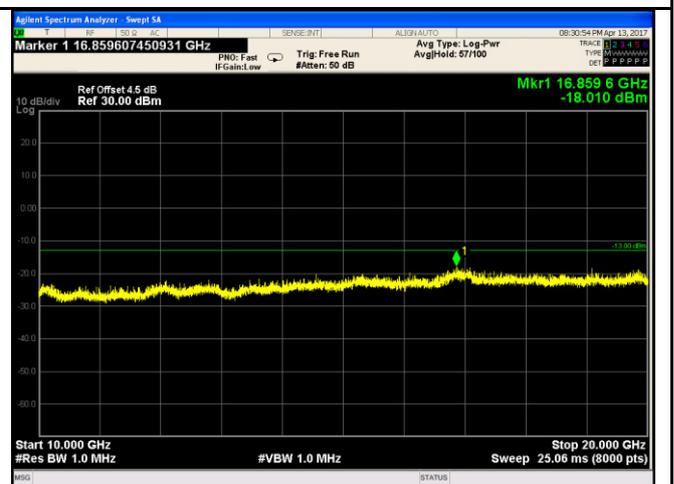
PCS1900 - Low Channel-1



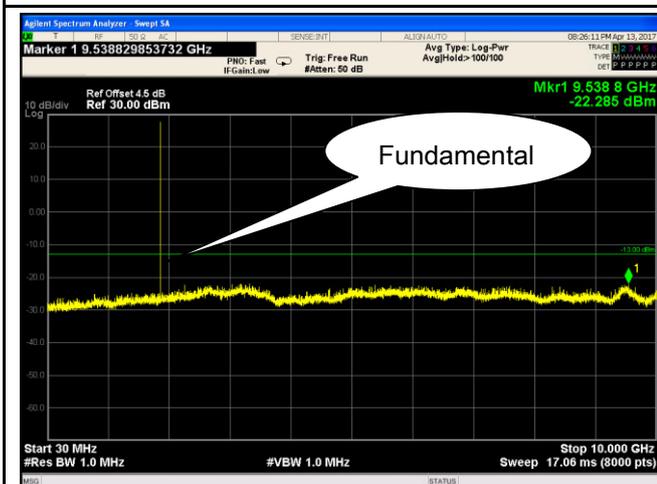
PCS 1900 - Low Channel-2



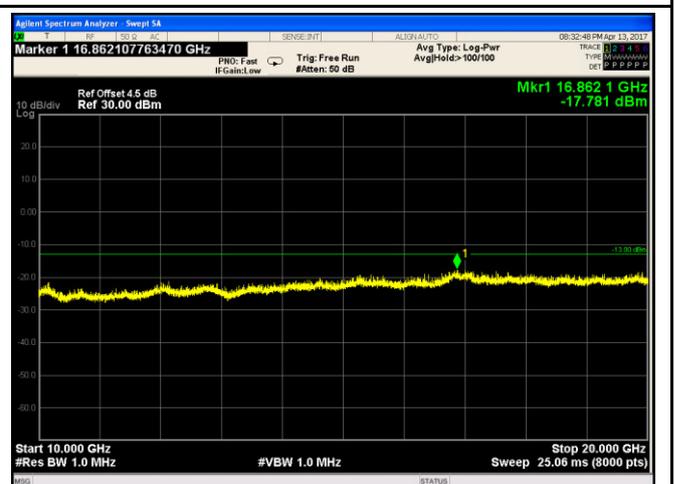
PCS1900 - Middle Channel-1



PCS 1900 - Middle Channel-2

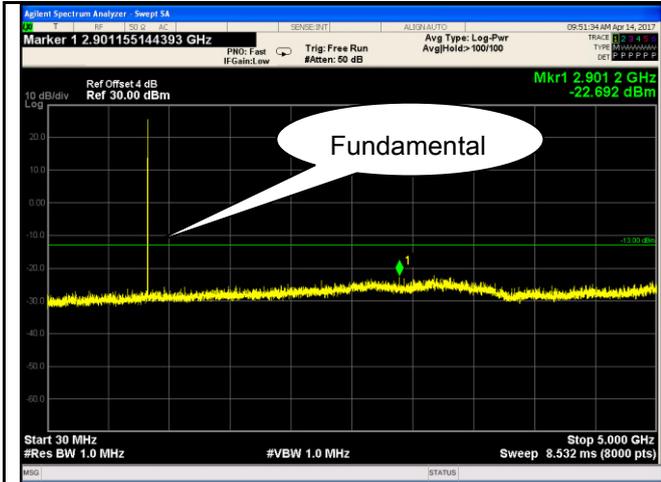


PCS1900 - High Channel-1

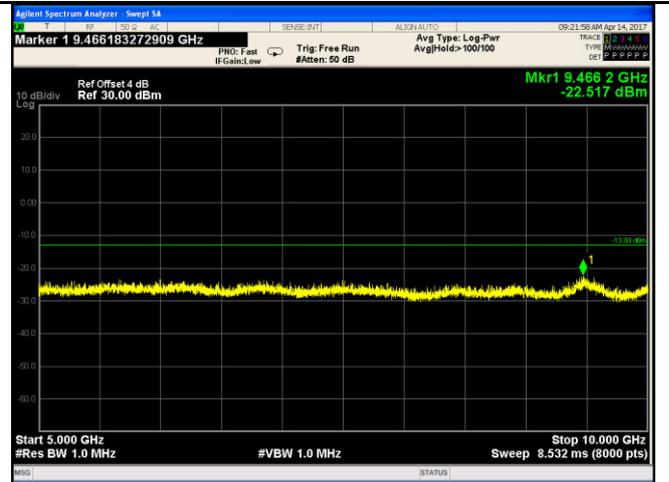


PCS 1900 - High Channel-2

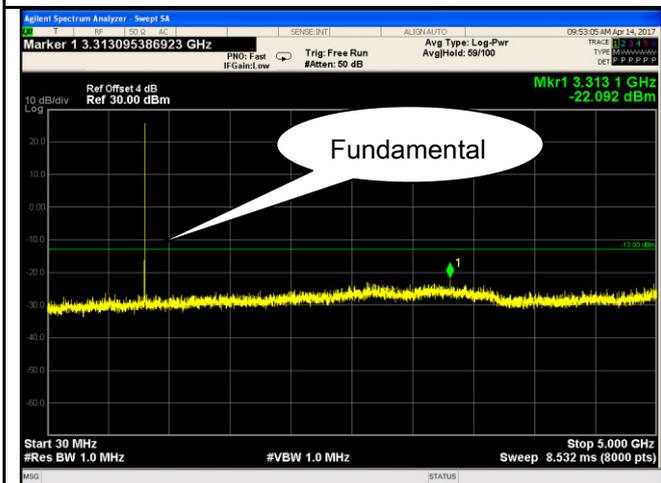
EGPRS (MCS 5):
Cellular Band (Part 22H) result



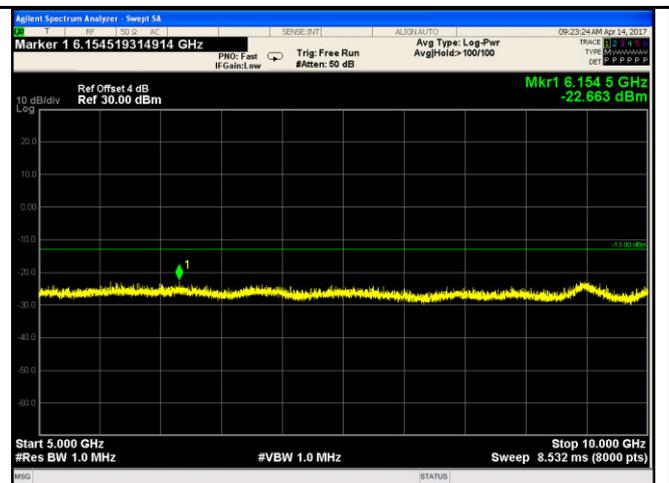
GSM 850 - Low Channel-1



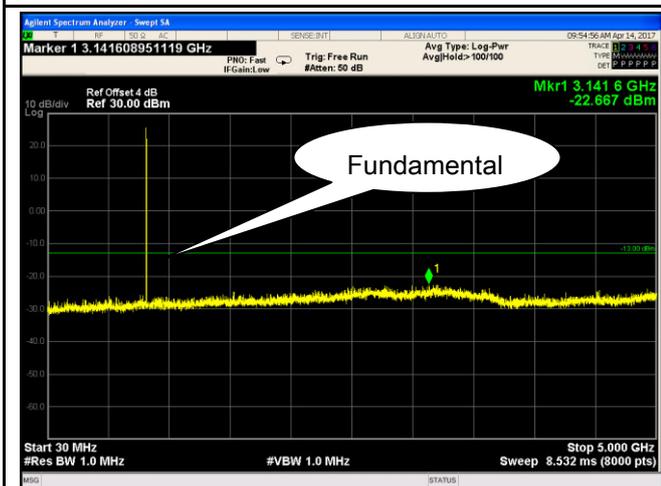
GSM 850 - Low Channel-2



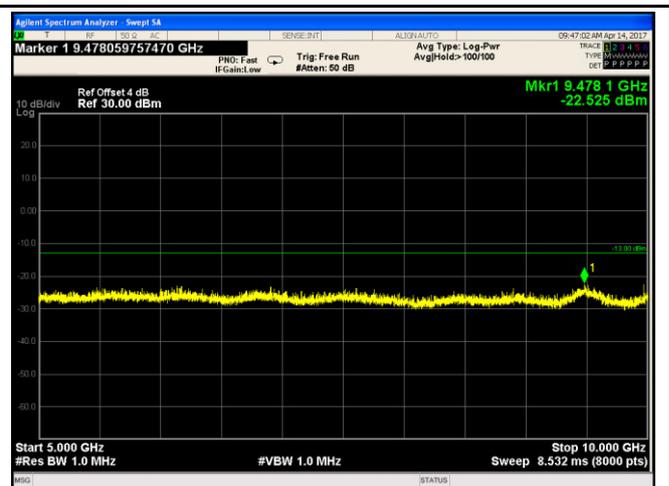
GSM 850 Middle Channel-1



GSM 850 Middle Channel-2

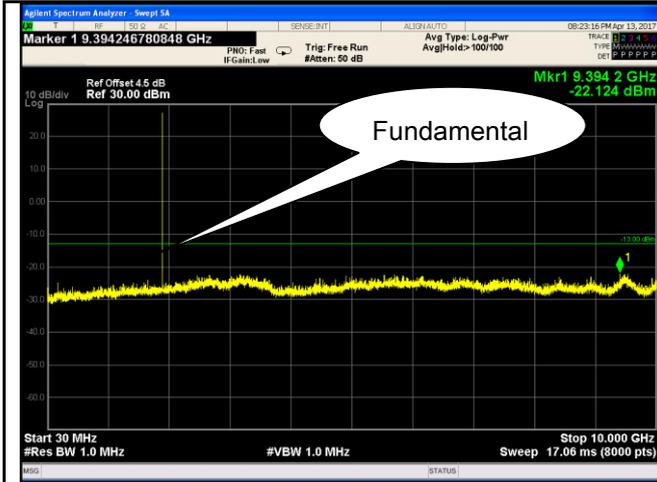


GSM 850 - High Channel-1

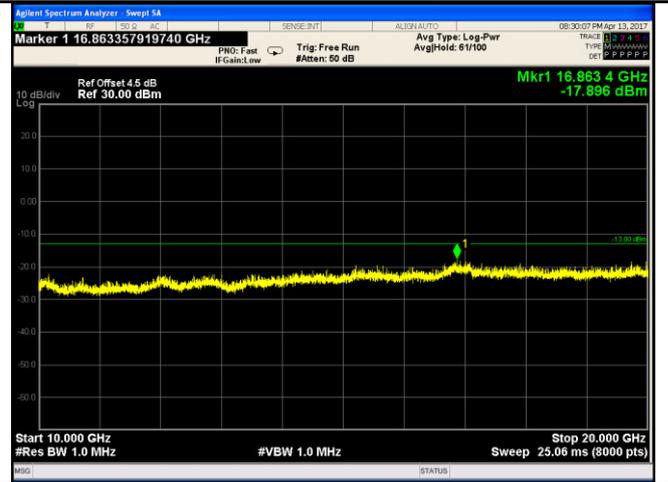


GSM 850 - High Channel-2

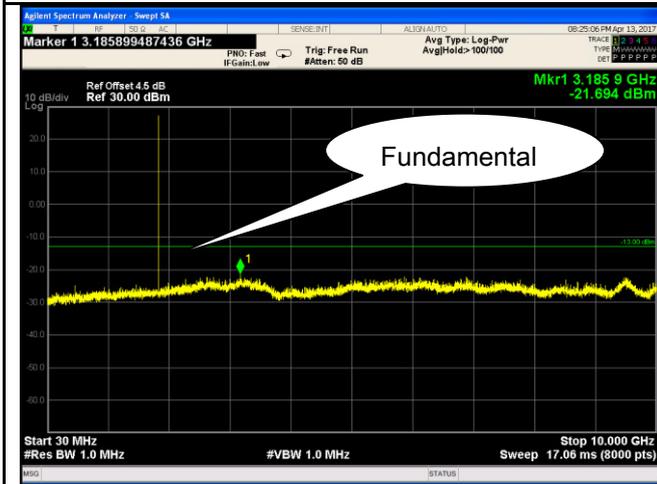
PCS Band (Part24E) result



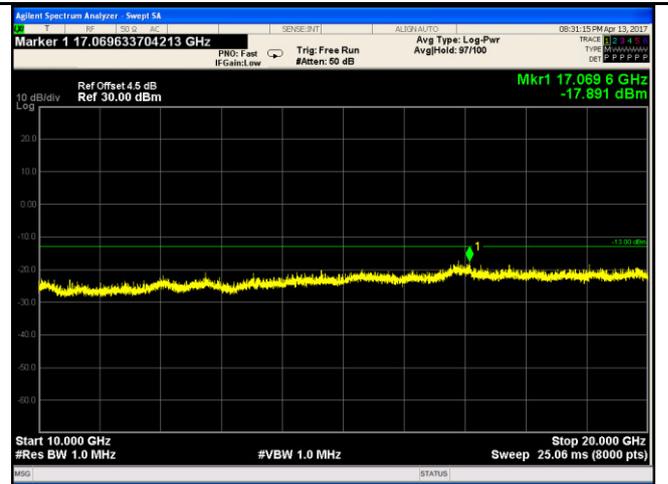
PCS1900 - Low Channel-1



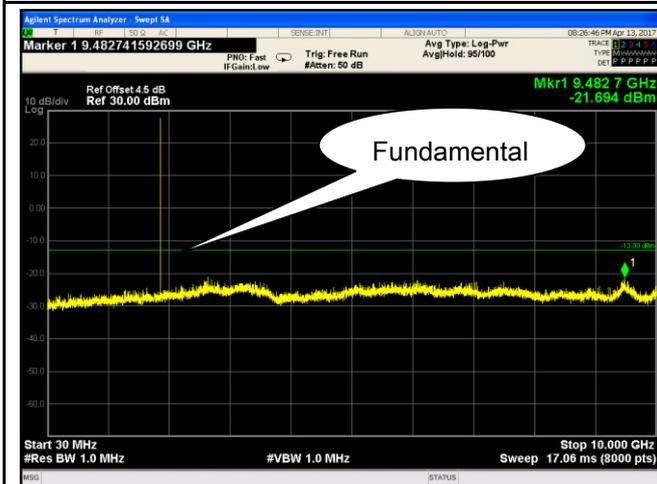
PCS 1900 - Low Channel-2



PCS1900 - Middle Channel-1



PCS 1900 - Middle Channel-2



PCS1900 - High Channel-1



PCS 1900 - High Channel-2