RF TEST REPORT

GLOBAL TESTING & CERTIFICATIONS
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Report No.: 16070574-FCC-R1

Supersede Report No.: N/A

Applicant	Verykool USA Inc
Product Name	Mobile Phone
Model No.	s6005
Serial No.	N/A
Test Standard	FCC Part 22(H):2015 ;FCC Part 24(E):2015; FCC Part 27:2015; ANSI/TIA-603-D: 2010
Test Date	June 01 to June 20, 2016
Issue Date	June 20, 2016
Test Result	☑ Pass ☐ Fail
Equipment complied with the specification	☑
Equipment did not comply with the specification	☐

Loren Luo	David Huang	
Loren Luo Test Engineer	David Huang Checked By	

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Test result presented in this test report is applicable to the tested sample only

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

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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

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CONTENTS

1. Report Revision History

Report No.	Report Version	Description	Issue Date
16070574-FCC-R1	NONE	Original	June 20, 2016

2. Customer information

Applicant Name	Verykool USA Inc
Applicant Add	3636 Nobel Drive, Suite 325, San Diego, California 92122 United States
Manufacturer	HUAWO TECHNOLOGY LIMITED
Manufacturer Add	Room 09A GongKan Building, Number 8 road of High Technology South,High Tech Park, NanShan District Shenzhen

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 v2.0

4. Equipment under Test (EUT) Information

Description of EUT:	Mobile Phone
Main Model:	s6005
Serial Model:	N/A
Date EUT received:	May 31, 2016
Test Date(s):	June 01 to June 20, 2016
Equipment Category：	PCE
Antenna Gain:	GSM850: 0.8dBi PCS1900: 1.0dBi UMTS-FDD Band V: 0.8dBi UMTS-FDD Band IV: 1.0dBi UMTS-FDD Band II: 1.0dBi Bluetooth/BLE/WIFI: 1.5dBi GPS: 1.8dBi
Type of Modulation:	GSM / GPRS: GMSK EGPRS: GMSK UMTS-FDD: QPSK 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 IV TX:1712.4 ~ 1752.6 MHz; RX : 2112.4 ~ 2152.6 MHz UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz; RX: 1932.4 ~ 1987.6 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

Maximum Conducted AV Power to Antenna:

GSM Vioce:GSM850: 32.30 dBm
PCS1900: 28.65 dBm
GPRS:GSM850: 32.26dBm
PCS1900: 28.60 dBm
MCS1:GSM850: 32.29 dBm
PCS1900: 28.56 dBm
RMC:UMTS-FDD Band V: 23.10 dBm
UMTS-FDD Band IV: 23.43 dBm
UMTS-FDD Band II: 23.43 dBm
HSUPA:UMTS-FDD Band V: 23.39 dBm
UMTS-FDD Band IV: 22.26 dBm
UMTS-FDD Band II: 22.38 dBm
HSDPA:UMTS-FDD Band V: 23.15dBm
UMTS-FDD Band IV: 22.21dBm
UMTS-FDD Band II: 22.45 dBm

ERP/EIRP:

GSM Vioce:GSM850: 30.11 dBm / ERP
PCS1900: 29.38 dBm / EIRP
GPRS:GSM850: 30.03 dBm / ERP
PCS1900: 29.24 dBm / EIRP
EGPRS:GSM850: 29.93 dBm / ERP
PCS1900: 29.18 dBm / EIRP
RMC:UMTS-FDD Band V: 21.59 dBm / ERP
UMTS-FDD Band IV: 25.19 dBm / ERP
UMTS-FDD Band II: 24.34 dBm / EIRP
HSUPA:UMTS-FDD Band V: 21.19 dBm / ERP
UMTS-FDD Band IV: 24.14 dBm / ERP
UMTS-FDD Band II: 23.75 dBm / EIRP
HSDPA:UMTS-FDD Band V: 21.22 dBm / ERP
UMTS-FDD Band IV: 24.13 dBm / ERP
UMTS-FDD Band II: 23.86 dBm / EIRP

Number of Channels:	GSM 850: 124CH PCS1900: 299CH UMTS-FDD Band V : 102CH UMTS-FDD Band IV: 202CH UMTS-FDD Band II : 277CH WIFI :802.11b/g/n(20M): 11CH WIFI :802.11n(40M): 7CH Bluetooth: 79CH BLE: 40CH GPS:1CH
Port:	Power Port, Earphone Port, USB Port
Input Power:	Adapter: Model:QU050100 Input: AC 100-240V~50/60Hz;0.2A Output: DC 5.0V,1000mA Battery: Model:365897P Spec: 3.8V,3000mAh(11.4Wh) Charge limited voltage: 4.35V
Trade Name :	verykool
GPRS/EGPRS Multi-slot class	8/10/12
FCC ID:	WA6S6005

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) ; § 27.50(d.4)	RF Output Power	Compliance
§ 24.232 (d) ; § 27.50(d)	Peak-Average Ratio	Compliance
§ 2.1049; § 22.905; § 22.917; § 24.238; § 27.53(a.5)	99% & -26 dB Occupied Bandwidth	Compliance
§ 2.1051; § 22.917(a); § 24.238(a); § 27.53(h)	Spurious Emissions at Antenna Terminal	Compliance
§ 2.1053; § 22.917(a); § 24.238(a); § 27.53(h)	Field Strength of Spurious Radiation	Compliance
§ 22.917(a); § 24.238(a); § 27.53(h)	Out of band emission, Band Edge	Compliance
§ 2.1055; § 22.355; § 24.235; § 27.5(h); § 27.54	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

Emissions		
Test Item	**Description**	**Uncertainty**
Band Edge and Radiated Spurious Emissions	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+5.6dB/-4.5dB
-	-	-

6. MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

6.1 RF Exposure (SAR)

Test Result: Pass

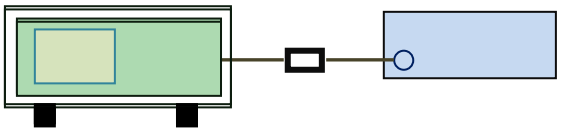
The EUT is a portable device, thus requires SAR evaluation;

Please refer to RF Exposure Evaluation Report: 16070574-FCC-H.

6.2 RF Output Power

Temperature	23℃
Relative Humidity	51%
Atmospheric Pressure	1018mbar
Test date :	June 18, 2016
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§22.913 (a)	a)	ERP:38.45dBm	☑
§24.232 (c)	b)	EIRP:33dBm	☑
§27.50 (c)	c)	EIRP: 30dBm	☑
Test Setup			
Test Procedure	For Conducted Power: - 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. For ERP/EIRP: According with KDB 971168 v02r02 - 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. - 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	☑ Pass ☐ 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	32.12	32.16	**32.30**	32±1	28.07	28.26	**28.65**	28±1
GPRS Multi-Slot Class 8 (1 uplink),GMSK	32.10	32.11	**32.26**	32±1	28.17	28.39	**28.60**	28±1
GPRS Multi-Slot Class 10 (2 uplink) GMSK	31.13	31.27	31.41	31±1	26.97	27.32	27.55	27±1
GPRS Multi-Slot Class 12 (4 uplink) GMSK	28.40	28.53	28.80	28±1	23.95	24.18	24.55	24.3±1
EGPRS Multi-Slot Class 8 (1 uplink) GMSK MCS1	32.08	32.1	**32.29**	32±1	28.00	28.36	**28.56**	28±1
EGPRS Multi-Slot Class 10 (2 uplink) GMSK MCS1	31.07	31.25	31.39	31±1	26.96	27.23	27.54	27±1
EGPRS Multi-Slot Class 12 (4 uplink) GMSK MCS1	28.39	28.5	28.79	28±1	23.94	24.12	24.51	24±1
Remark : GPRS, CS1 coding scheme. EGPRS, MCS1 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	**23.10**	23±1
	4175	835	22.94	23±1
	4233	846.6	22.95	23±1
HSDPA Subtest1	4132	826.4	22.56	22.5±1
	4175	835	22.42	22.5±1
	4233	846.6	22.38	22.5±1
HSDPA Subtest2	4132	826.4	22.16	22.5±1
	4175	835	**23.15**	22.5±1
	4233	846.6	22.68	22.5±1
HSDPA Subtest3	4132	826.4	22.19	22.5±1
	4175	835	21.98	22.5±1
	4233	846.6	22.16	22.5±1
HSDPA Subtest4	4132	826.4	21.63	22.5±1
	4175	835	21.95	22.5±1
	4233	846.6	22.34	22.5±1
HSUPA Subtest1	4132	826.4	21.63	22.5±1
	4175	835	21.93	22.5±1
	4233	846.6	22.19	22.5±1
HSUPA Subtest2	4132	826.4	21.65	22.5±1
	4175	835	22.68	22.5±1
	4233	846.6	22.67	22.5±1
HSUPA Subtest3	4132	826.4	**23.39**	22.5±1
	4175	835	21.56	22.5±1
	4233	846.6	22.49	22.5±1
HSUPA Subtest4	4132	826.4	23.11	22.5±1
	4175	835	22.57	22.5±1
	4233	846.6	22.34	22.5±1
HSUPA Subtest5	4132	826.4	22.16	22.5±1
	4175	835	22.58	22.5±1
	4233	846.6	22.50	22.5±1

UMTS-FDD Band II

Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)	Tune up Power tolerant
RMC 12.2kbps	9262	1852.4	**23.43**	23±1
	9400	1880	22.51	23±1
	9538	1907.6	23.19	23±1
HSDPA Subtest1	9262	1852.4	22.13	21.5±1
	9400	1880	21.41	21.5±1
	9538	1907.6	21.65	21.5±1
HSDPA Subtest2	9262	1852.4	**22.45**	21.5±1
	9400	1880	21.32	21.5±1
	9538	1907.6	21.96	21.5±1
HSDPA Subtest3	9262	1852.4	22.31	21.5±1
	9400	1880	21.56	21.5±1
	9538	1907.6	21.66	21.5±1
HSDPA Subtest4	9262	1852.4	21.39	21.5±1
	9400	1880	21.54	21.5±1
	9538	1907.6	22.28	21.5±1
HSUPA Subtest1	9262	1852.4	21.96	21.5±1
	9400	1880	21.64	21.5±1
	9538	1907.6	22.21	21.5±1
HSUPA Subtest2	9262	1852.4	21.26	21.5±1
	9400	1880	22.32	21.5±1
	9538	1907.6	21.64	21.5±1
HSUPA Subtest3	9262	1852.4	21.36	21.5±1
	9400	1880	**22.38**	21.5±1
	9538	1907.6	22.16	21.5±1
HSUPA Subtest4	9262	1852.4	21.62	21.5±1
	9400	1880	21.73	21.5±1
	9538	1907.6	22.26	21.5±1
HSUPA Subtest5	9262	1852.4	22.06	21.5±1
	9400	1880	21.63	21.5±1
	9538	1907.6	21.85	21.5±1

UMTS-FDD Band IV

Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)	Tune up Power tolerant
RMC 12.2kbps	4132	826.4	**24.18**	24±1
	4175	835	23.88	24±1
	4233	846.6	23.89	24±1
HSDPA Subtest1	4132	826.4	22.21	21.3±1
	4175	835	21.38	21.3±1
	4233	846.6	21.36	21.3±1
HSDPA Subtest2	4132	826.4	21.05	21.3±1
	4175	835	21.93	21.3±1
	4233	846.6	21.35	21.3±1
HSDPA Subtest3	4132	826.4	21.69	21.3±1
	4175	835	21.95	21.3±1
	4233	846.6	20.96	21.3±1
HSDPA Subtest4	4132	826.4	20.58	21.3±1
	4175	835	21.36	21.3±1
	4233	846.6	21.58	21.3±1
HSUPA Subtest1	4132	826.4	21.65	21.3±1
	4175	835	22.26	21.3±1
	4233	846.6	21.69	21.3±1
HSUPA Subtest2	4132	826.4	21.22	21.3±1
	4175	835	21.35	21.3±1
	4233	846.6	22.19	21.3±1
HSUPA Subtest3	4132	826.4	21.69	21.3±1
	4175	835	21.39	21.3±1
	4233	846.6	22.03	21.3±1
HSUPA Subtest4	4132	826.4	22.09	21.3±1
	4175	835	21.14	21.3±1
	4233	846.6	21.69	21.3±1
HSUPA Subtest5	4132	826.4	21.36	21.3±1
	4175	835	21.54	21.3±1
	4233	846.6	22.05	21.3±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	23.61	V	6.8	0.53	29.88	38.45
824.2	23.19	H	6.8	0.53	29.46	38.45
836.6	23.65	V	6.8	0.53	29.92	38.45
836.6	23.22	H	6.8	0.53	29.49	38.45
848.8	23.74	V	6.9	0.53	**30.11**	38.45
848.8	23.29	H	6.9	0.53	29.66	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	22.27	V	7.88	0.85	29.30	33
1850.2	21.61	H	7.88	0.85	28.64	33
1880	22.35	V	7.88	0.85	29.38	33
1880	21.79	H	7.88	0.85	28.82	33
1909.8	22.33	V	7.86	0.85	29.34	33
1909.8	21.75	H	7.86	0.85	28.76	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	23.54	V	6.8	0.53	29.81	38.45
824.2	23.07	H	6.8	0.53	29.34	38.45
836.6	23.61	V	6.8	0.53	29.88	38.45
836.6	23.15	H	6.8	0.53	29.42	38.45
848.8	23.66	V	6.9	0.53	**30.03**	38.45
848.8	23.02	H	6.9	0.53	29.39	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	22.18	V	7.88	0.85	29.21	33
1850.2	21.72	H	7.88	0.85	28.75	33
1880	22.15	V	7.88	0.85	29.18	33
1880	21.61	H	7.88	0.85	28.64	33
1909.8	22.23	V	7.86	0.85	**29.24**	33
1909.8	21.58	H	7.86	0.85	28.59	33

EGPRS (MCS1):

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	23.48	V	6.8	0.53	29.75	38.45
824.2	22.95	H	6.8	0.53	29.22	38.45
836.6	23.51	V	6.8	0.53	29.78	38.45
836.6	23.07	H	6.8	0.53	29.34	38.45
848.8	23.56	V	6.9	0.53	**29.93**	38.45
848.8	23.12	H	6.9	0.53	29.49	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	22.09	V	7.88	0.85	29.12	33
1850.2	21.63	H	7.88	0.85	28.66	33
1880	22.14	V	7.88	0.85	29.17	33
1880	21.58	H	7.88	0.85	28.61	33
1909.8	22.17	V	7.86	0.85	**29.18**	33
1909.8	21.52	H	7.86	0.85	28.53	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	15.19	V	6.8	0.53	21.46	38.45
826.4	14.63	H	6.8	0.53	20.90	38.45
835	15.24	V	6.8	0.53	21.51	38.45
835	14.68	H	6.8	0.53	20.95	38.45
846.6	15.22	V	6.9	0.53	**21.59**	38.45
846.6	14.65	H	6.9	0.53	21.02	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	17.31	V	7.88	0.85	**24.34**	33
1852.4	16.78	H	7.88	0.85	23.81	33
1880	17.14	V	7.88	0.85	24.17	33
1880	16.72	H	7.88	0.85	23.75	33
1907.6	17.27	V	7.86	0.85	24.28	33
1907.6	16.73	H	7.86	0.85	23.74	33

EIRP for UMTS-FDD Band IV (Part 27E)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1712.4	18.21	V	7.76	0.82	25.15	30
1712.4	17.68	H	7.76	0.82	24.62	30
1740	18.14	V	7.76	0.82	25.08	30
1740	17.62	H	7.76	0.82	24.56	30
1752.6	18.27	V	7.74	0.82	**25.19**	30
1752.6	17.54	H	7.74	0.82	24.46	30

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	14.88	V	6.8	0.53	21.15	38.45
826.4	14.35	H	6.8	0.53	20.62	38.45
835	14.92	V	6.8	0.53	**21.19**	38.45
835	14.27	H	6.8	0.53	20.54	38.45
846.6	14.74	V	6.9	0.53	21.11	38.45
846.6	14.21	H	6.9	0.53	20.58	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	16.69	V	7.88	0.85	23.72	33
1852.4	16.15	H	7.88	0.85	23.18	33
1880	16.72	V	7.88	0.85	**23.75**	33
1880	16.21	H	7.88	0.85	23.24	33
1907.6	16.64	V	7.86	0.85	23.65	33
1907.6	16.09	H	7.86	0.85	23.10	33

EIRP for UMTS-FDD Band IV (Part 27E)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1712.4	17.15	V	7.76	0.82	24.09	30
1712.4	16.71	H	7.76	0.82	23.65	30
1740	17.08	V	7.76	0.82	24.02	30
1740	16.63	H	7.76	0.82	23.57	30
1752.6	17.22	V	7.74	0.82	**24.14**	30
1752.6	16.59	H	7.74	0.82	23.51	30

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	14.83	V	6.8	0.53	21.10	38.45
826.4	14.29	H	6.8	0.53	20.56	38.45
835	14.77	V	6.8	0.53	21.04	38.45
835	14.31	H	6.8	0.53	20.58	38.45
846.6	14.85	V	6.9	0.53	**21.22**	38.45
846.6	14.36	H	6.9	0.53	20.73	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	16.83	V	7.88	0.85	**23.86**	33
1852.4	16.24	H	7.88	0.85	23.27	33
1880	16.79	V	7.88	0.85	23.82	33
1880	16.16	H	7.88	0.85	23.19	33
1907.6	16.75	V	7.86	0.85	23.76	33
1907.6	16.11	H	7.86	0.85	23.12	33

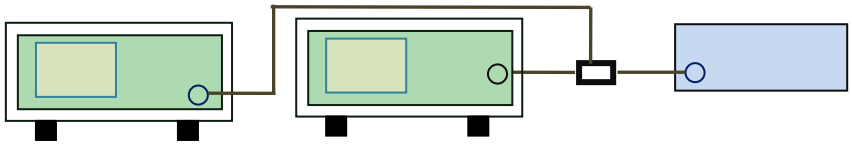
EIRP for UMTS-FDD Band IV (Part 27E)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1712.4	17.19	V	7.76	0.82	**24.13**	30
1712.4	16.75	H	7.76	0.82	23.69	30
1740	16.91	V	7.76	0.82	23.85	30
1740	16.43	H	7.76	0.82	23.37	30
1752.6	16.87	V	7.74	0.82	23.79	30
1752.6	16.32	H	7.74	0.82	23.24	30

6.3 Peak-Average Ratio

Temperature	23℃
Relative Humidity	51%
Atmospheric Pressure	1018mbar
Test date :	June 18, 2016
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§24.232(d) § 27.50(d)	a)	The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.	☑
Test Setup			
Test Procedure	According with KDB 971168 v02r02 5.7.2 Alternate procedure for PAPR 5.1.2 Peak power measurements with a peak power meter 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. 5.2.3 Average power measurement with average power meter 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 If the EUT can be configured to transmit continuously (i.e., the burst duty cycle ≥ 98%) and at all times the EUT is transmitting at is maximum output		

	power level, then a conventional wide-band RF power meter can be used. 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 10log(1/duty cycle)
Remark	
Result	☑ Pass ☐ 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	30.19	28.07	2.12
1880	30.35	28.26	2.09
1909.8	30.6	28.65	1.95

GPRS 1900 PK-AV POWER (PART 24E)

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1850.2	30.56	28	2.56
1880	30.45	28.36	2.09
1909.8	30.23	28.56	1.67

EGPRS (MSC1) 1900 PK-AV POWER (PART 24E)

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1850.2	29.34	27.97	1.37
1880	29.32	28.35	0.97
1909.8	29.69	28.53	1.16

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

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1852.4	25.36	23.43	1.93
1880	25.13	22.51	2.62
1907.6	25.62	23.19	2.43

UMTS-FDD Band 4 PK-AV POWER (PART 27)

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1852.4	26.15	24.18	1.97
1880	25.35	23.88	1.47
1907.6	25.26	23.89	1.37

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

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1852.4	24.75	21.65	3.1
1880	24.3	22.26	2.04
1907.6	24.12	21.69	2.43

UMTS-FDD Band 4 PK-AV POWER (PART 27)

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1852.4	25.35	21.96	3.39
1880	25.32	21.64	3.68
1907.6	25.64	22.21	3.43

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

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1852.4	26.23	22.13	4.10
1880	26.55	21.41	5.14
1907.6	26.36	21.65	4.71

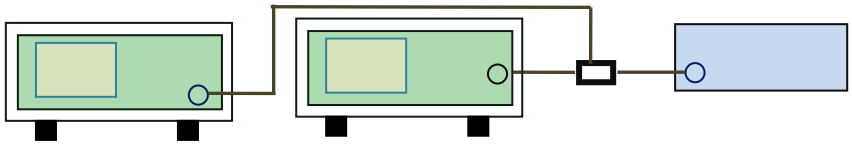
UMTS-FDD Band 4 PK-AV POWER (PART 27)

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1852.4	25.75	22.21	3.54
1880	24.33	21.38	2.95
1907.6	24.62	21.36	3.26

6.4 Occupied Bandwidth

Temperature	25℃
Relative Humidity	54%
Atmospheric Pressure	1012mbar
Test date :	June 12, 2016
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§2.1049, §22.917, §22.905 §24.238 §27.53(a)	a)	99% Occupied Bandwidth(kHz)	☑
	b)	26 dB Bandwidth(kHz)	☑
Test Setup			
Test Procedure	- 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	☑ Pass ☐ 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	245.5619	321.286
190	836.6	244.1662	319.362
251	848.8	247.6688	320.526

PCS Band (Part 24E) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
512	1850.2	246.6987	323.483
661	1880.0	243.4365	323.613
810	1909.8	246.1650	323.711

GPRS:

Cellular Band (Part 22H) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
128	824.2	248.1101	319.237
190	836.6	248.0525	320.711
251	848.8	246.4317	320.024

PCS Band (Part 24E) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
512	1850.2	244.6118	320.196
661	1880.0	244.8167	322.885
810	1909.8	246.6202	320.331

EGPRS (MCS 1):

Cellular Band (Part 22H) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
128	824.2	245.7591	319.137
190	836.6	246.8223	319.732
251	848.8	246.8379	318.592

PCS Band (Part 24E) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
512	1850.2	246.2070	315.516
661	1880.0	245.4254	319.295
810	1909.8	245.515	322.515

RMC:

UMTS-FDD Band V (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
4132	826.4	4.1492	4.702
4175	835.0	4.1508	4.714
4233	846.6	4.1453	4.707

UMTS-FDD Band IV (Part 27E)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
1313	1712.6	4.1591	4.721
1413	1732.6	4.1433	4.728
1512	1752.4	4.1501	4.699

UMTS-FDD Band II (Part 24E)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
9262	1852.4	4.1608	4.700
9400	1880.0	4.1690	4.703
9538	1907.6	4.2170	4.805

HSUPA:

UMTS-FDD Band V (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
4132	826.4	4.1588	4.699
4175	835.0	4.1442	4.700
4233	846.6	4.1443	4.700

UMTS-FDD Band IV (Part 27E)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
1313	1712.6	4.1602	4.723
1413	1732.6	4.1551	4.704
1512	1752.4	4.1502	4.705

UMTS-FDD Band II (Part 24E)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
9262	1852.4	4.1642	4.735
9400	1880.0	4.1661	4.720
9538	1907.6	4.2227	4.840

HSDPA:

UMTS-FDD Band V (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
4132	826.4	4.1504	4.708
4175	835.0	4.1469	4.693
4233	846.6	4.1425	4.695

UMTS-FDD Band IV (Part 27E)

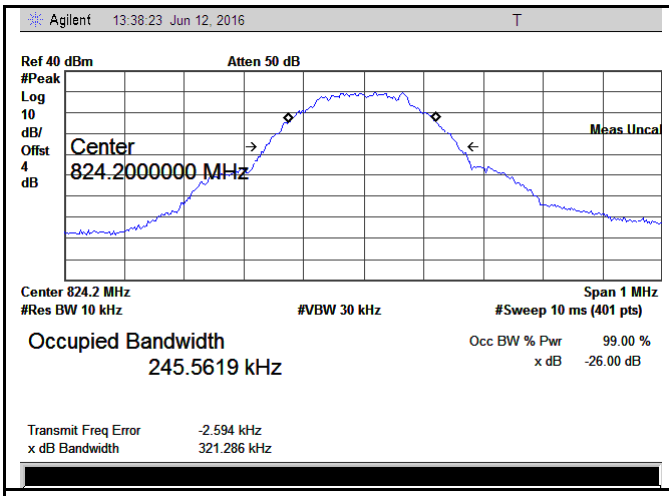
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
1313	1712.6	4.1552	4.713
1413	1732.6	4.1413	4.701
1512	1752.4	4.1551	4.710

UMTS-FDD Band II (Part 24E)

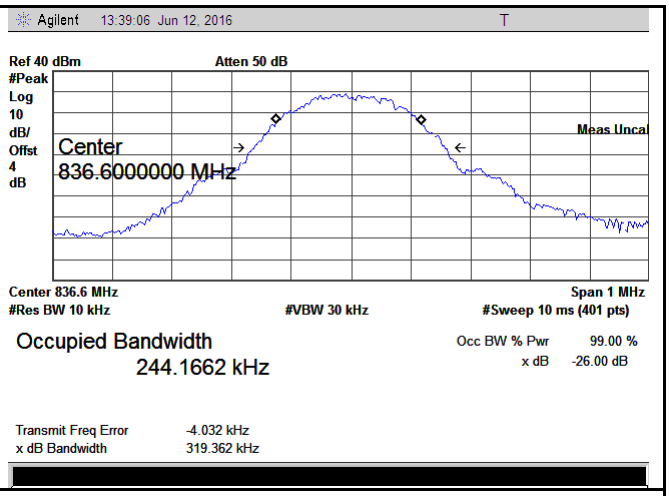
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
9262	1852.4	4.1760	4.747
9400	1880.0	4.1616	4.714
9538	1907.6	4.2133	4.793

Test Plots

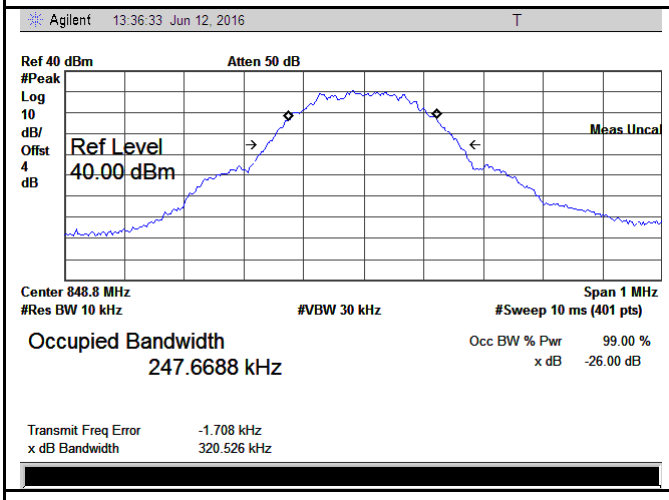
GMS Voice:



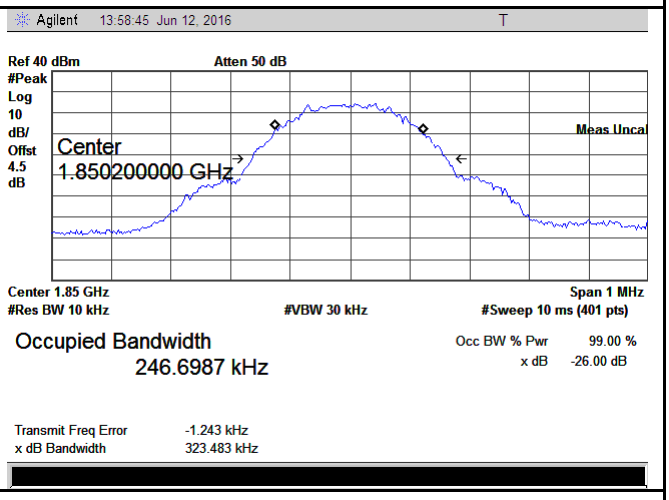
GSM 850 BW - Low CH 824.2MHz



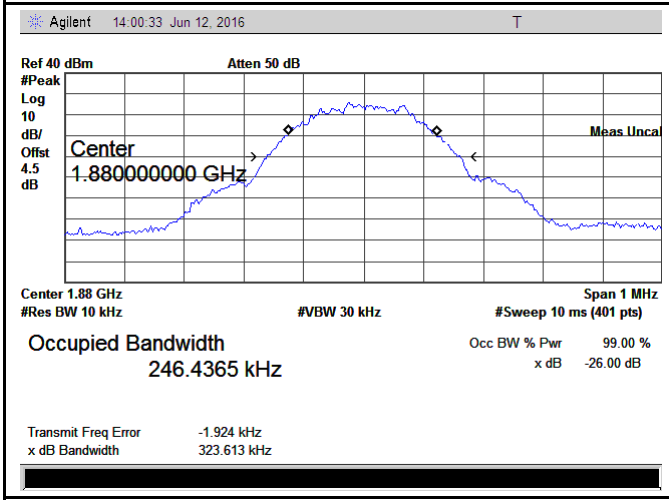
GSM 850 BW - Mid CH 836.6MHz



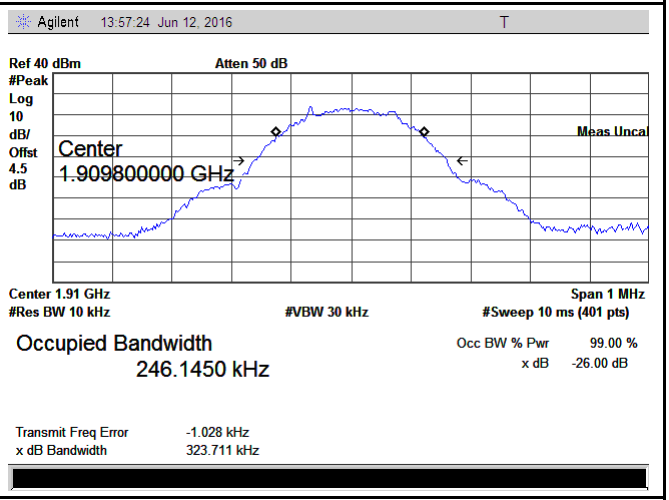
GSM 850 BW - High CH 848.8MHz



PCS 1900 BW - Low CH 1850.2MHz

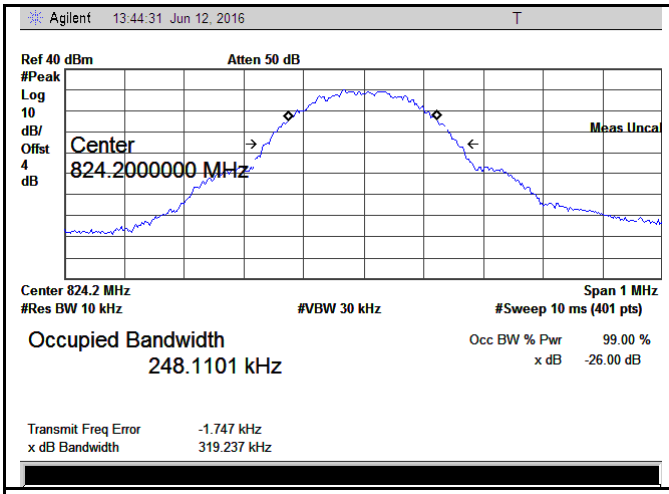


PCS 1900 BW - Mid CH 1880MHz

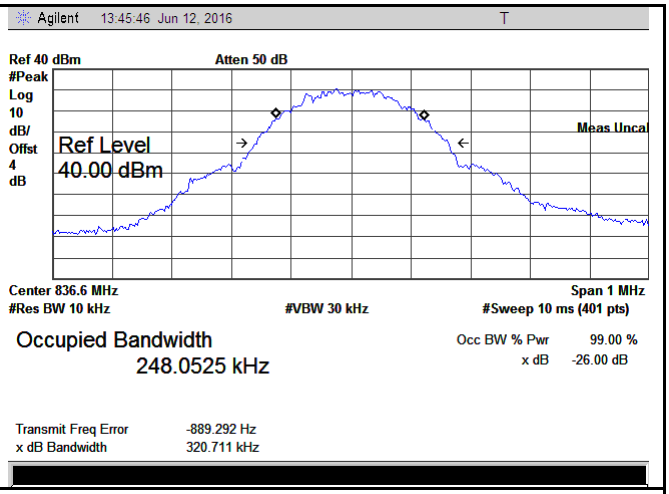


PCS 1900 BW - High CH 1909.8MHz

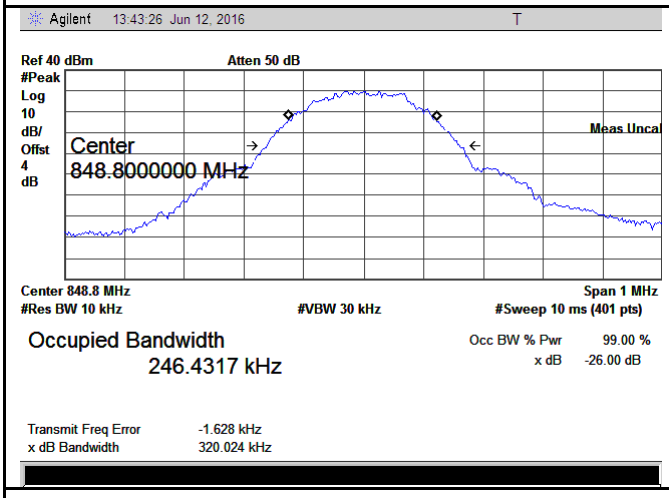
GPRS:



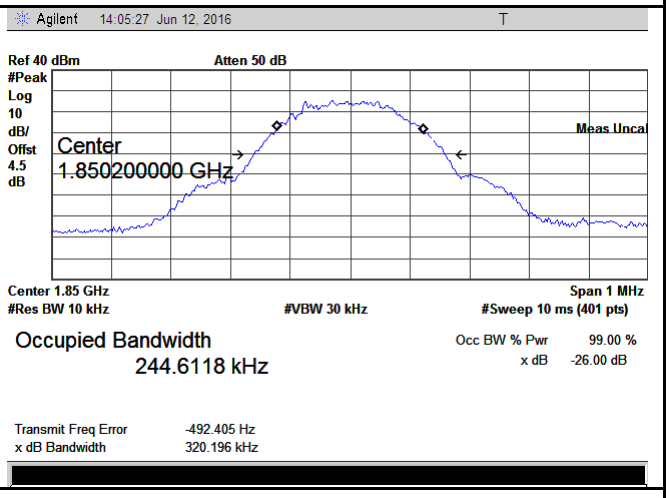
GSM 850 BW - Low CH 824.2MHz



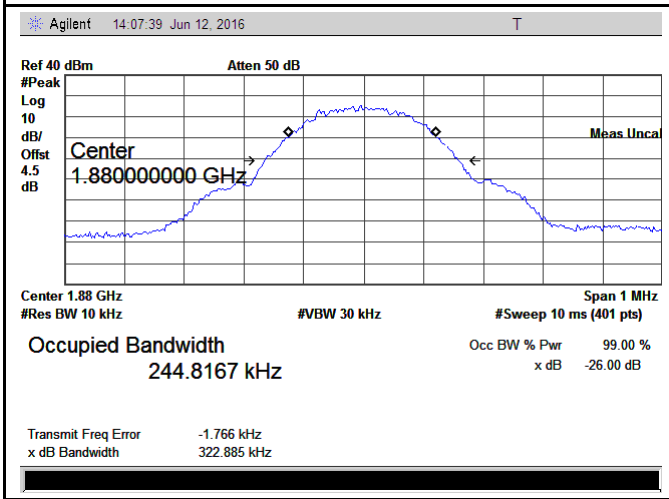
GSM 850 BW - Mid CH 836.6MHz



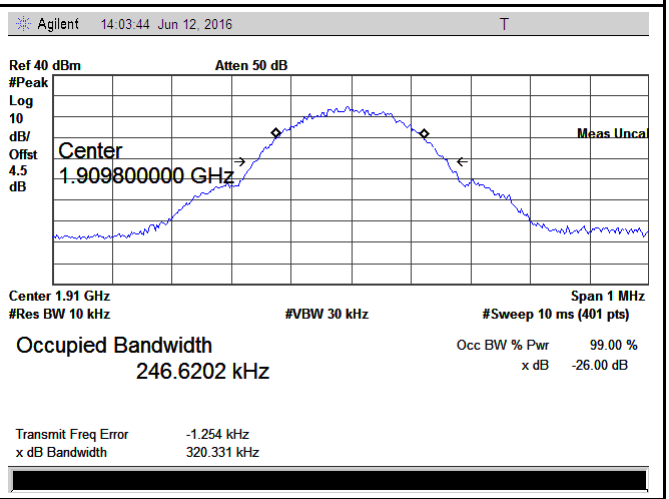
GSM 850 BW - High CH 848.8MHz



PCS 1900 BW - Low CH 1850.2MHz

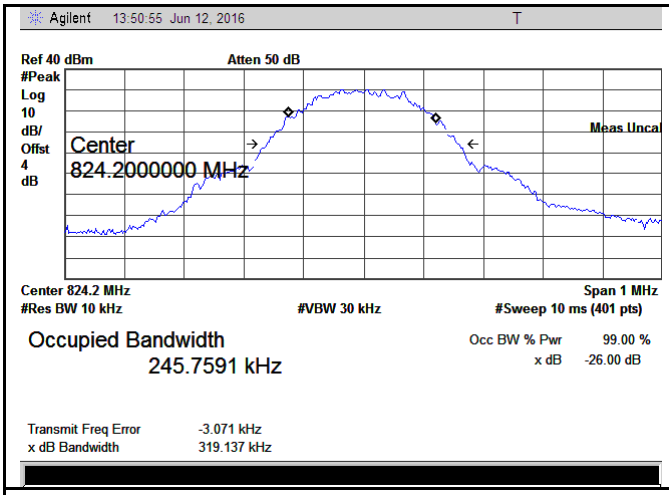


PCS 1900 BW - Mid CH 1880MHz

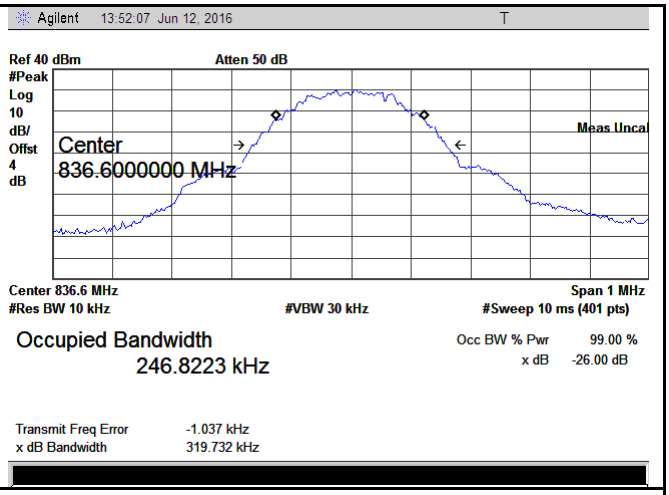


PCS 1900 BW - High CH 1909.8MHz

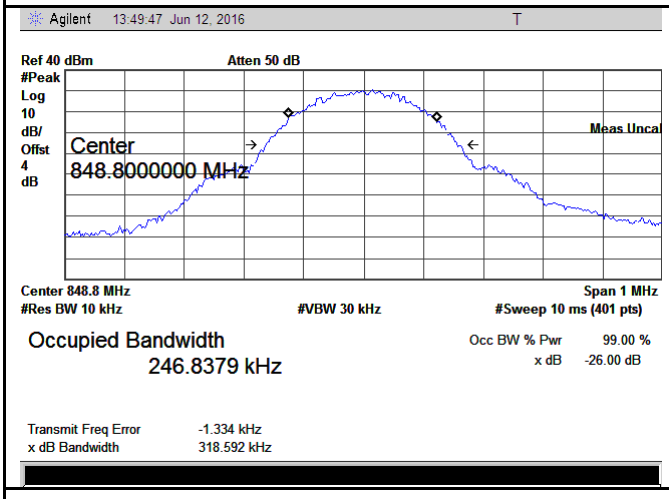
EGPRS:



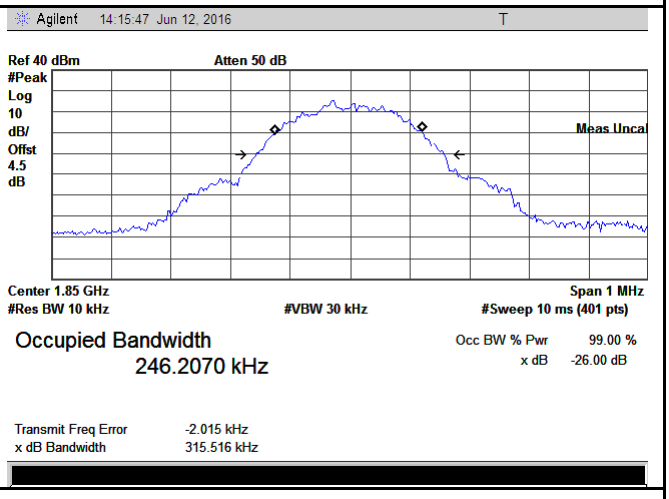
GSM 850 BW - Low CH 824.2MHz



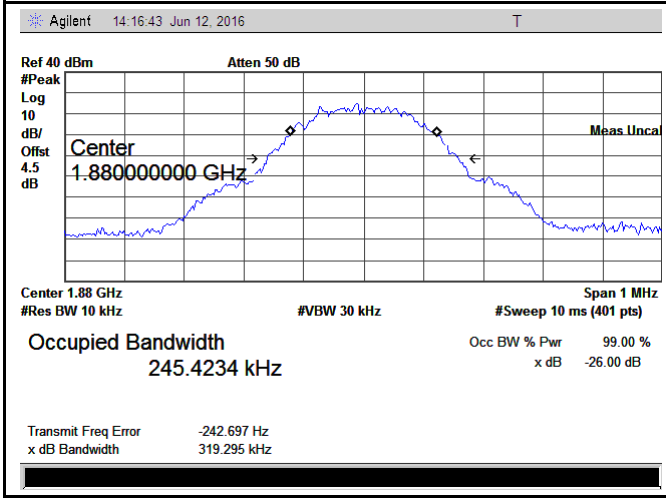
GSM 850 BW - Mid CH 836.6MHz



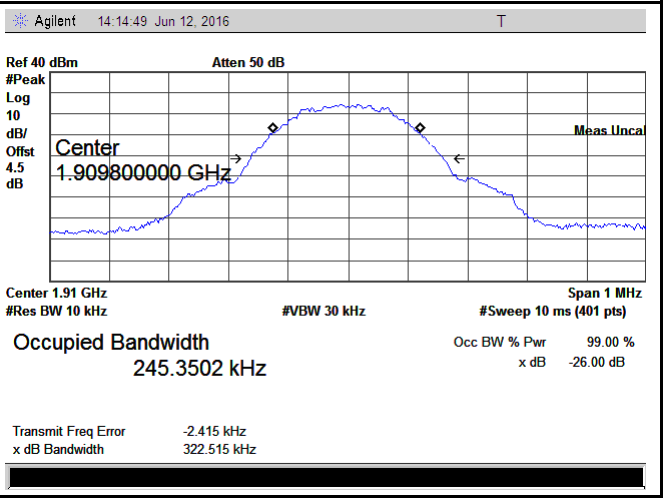
GSM 850 BW - High CH 848.8MHz



PCS 1900 BW - Low CH 1850.2MHz

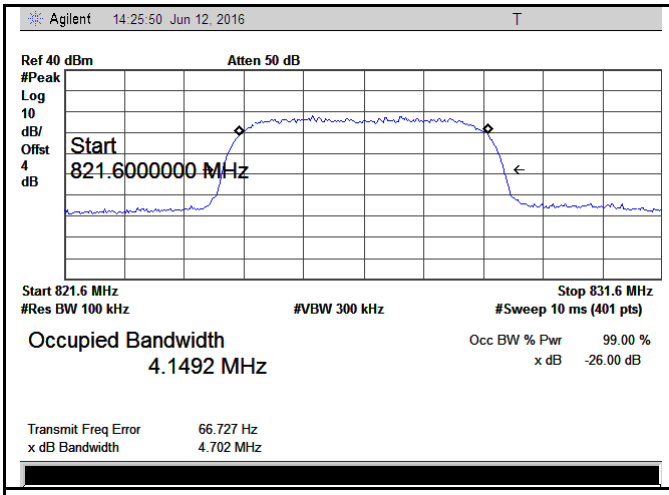


PCS 1900 BW - Mid CH 1880MHz

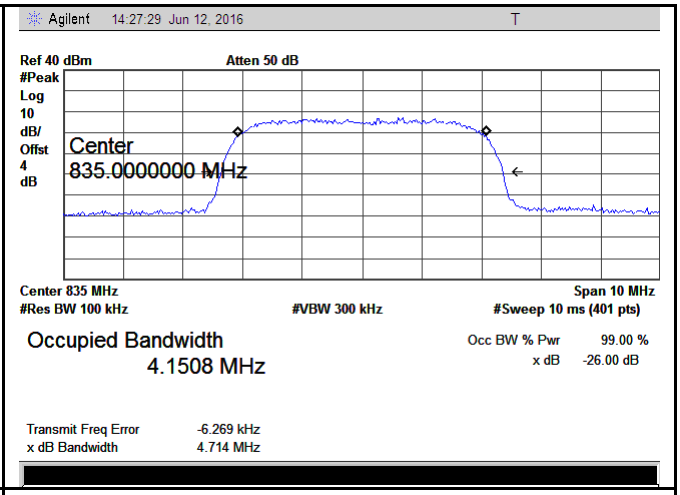


PCS 1900 BW - High CH 1909.8MHz

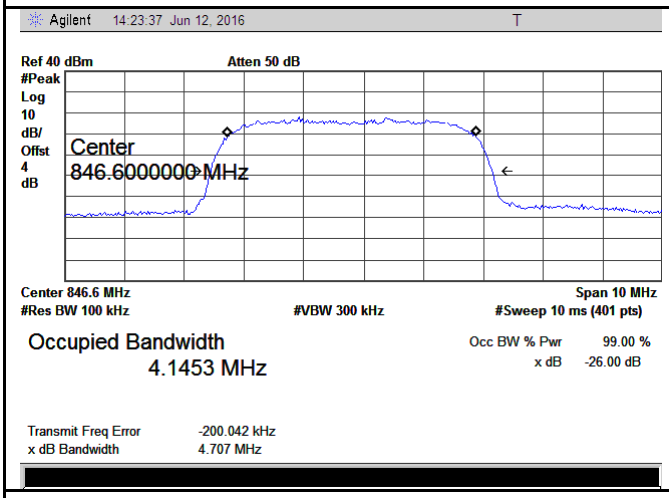
RMC:



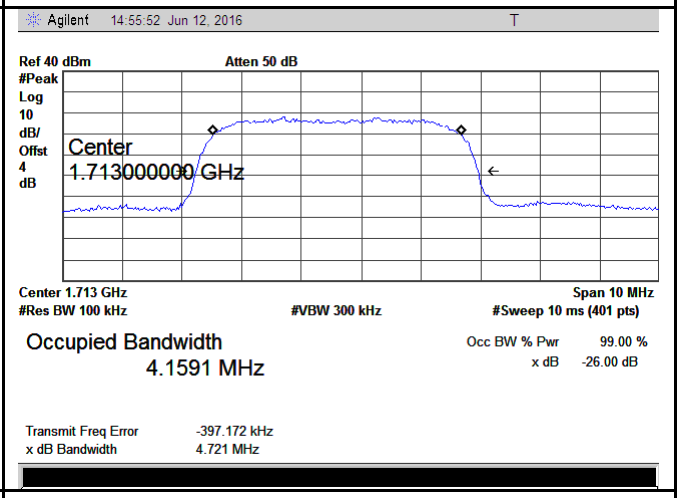
Band V BW - Low CH 826.6 MHz



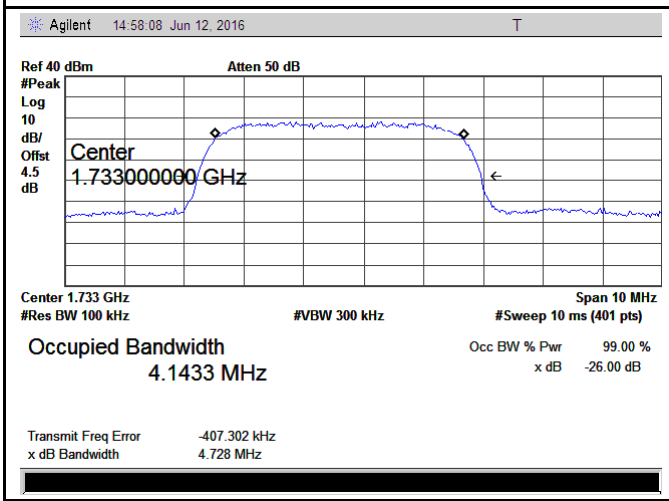
Band V BW - Mid CH 835.0 MHz



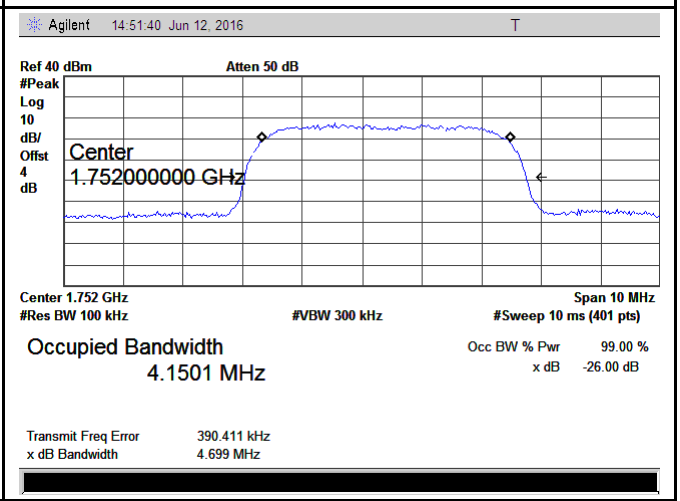
Band V BW - High CH 846.4 MHz



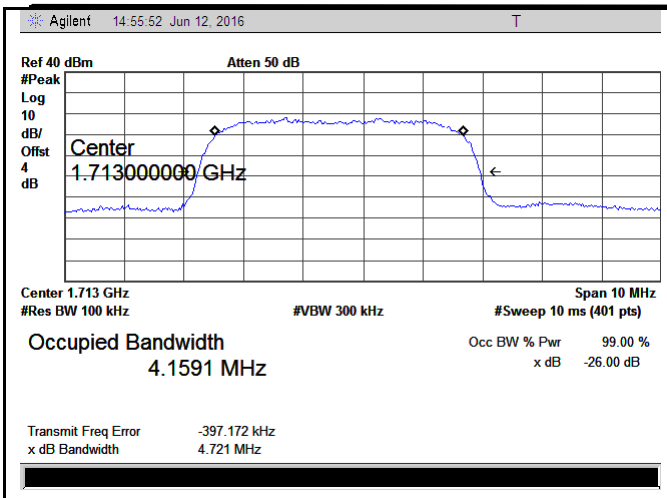
Band IV BW - Low CH 1712.6MHz



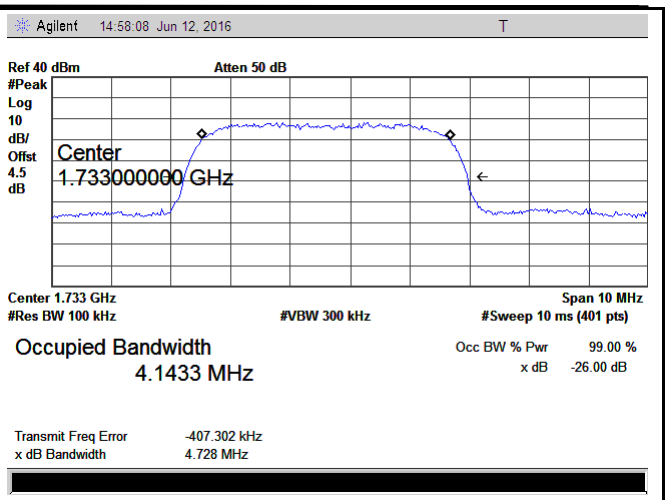
Band IV BW - Mid CH 1732.6MHz



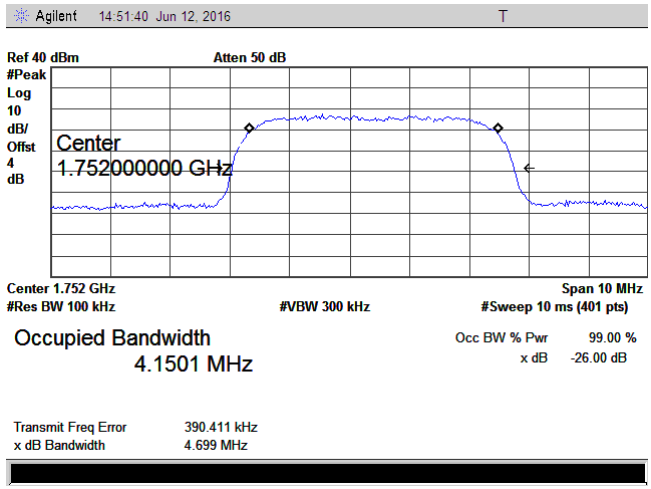
Band IV BW - High CH 1752.4MHz



Band II BW - Low CH 1852.4MHz

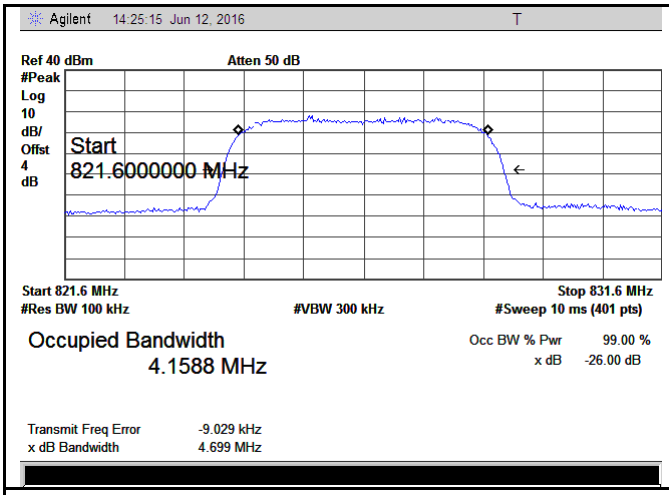


Band II BW - Mid CH 1880MHz

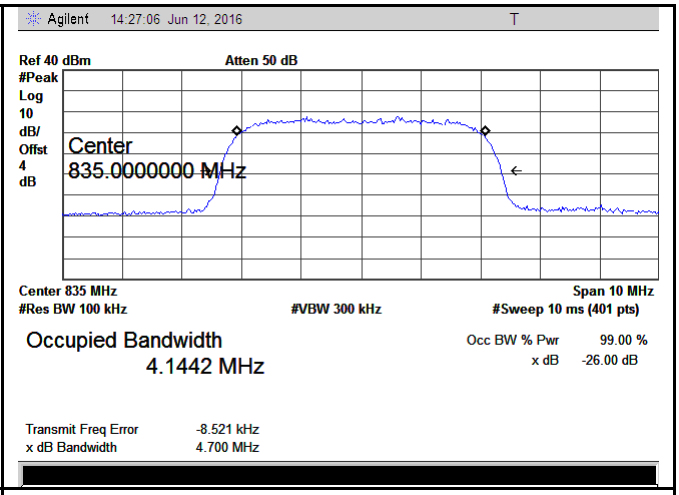


Band II BW - High CH 1907.6MHz

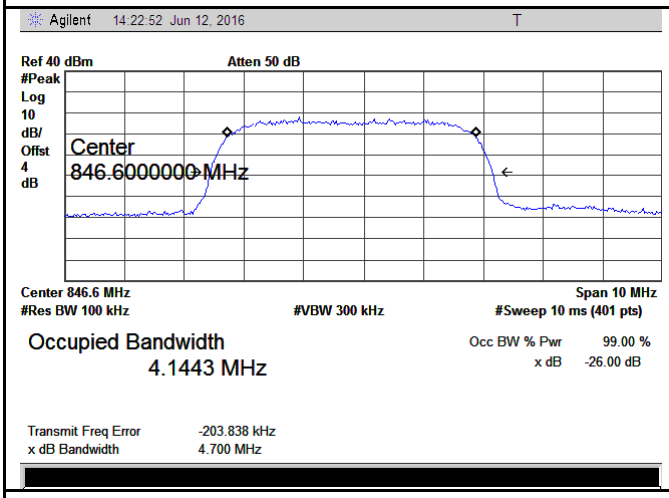
HSUPA:



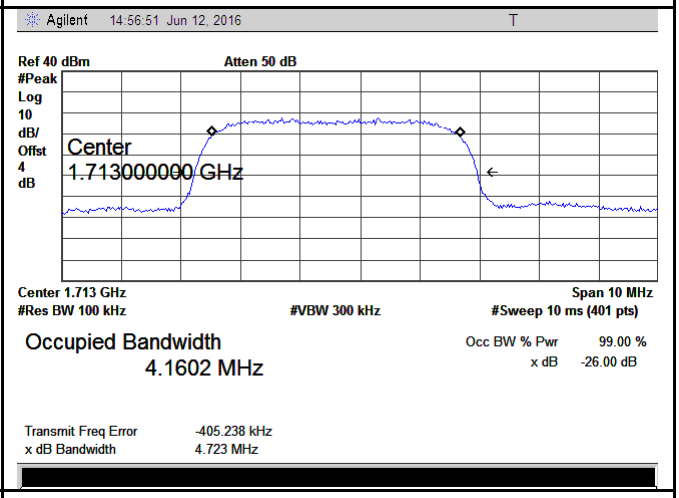
Band V BW - Low CH 826.6 MHz



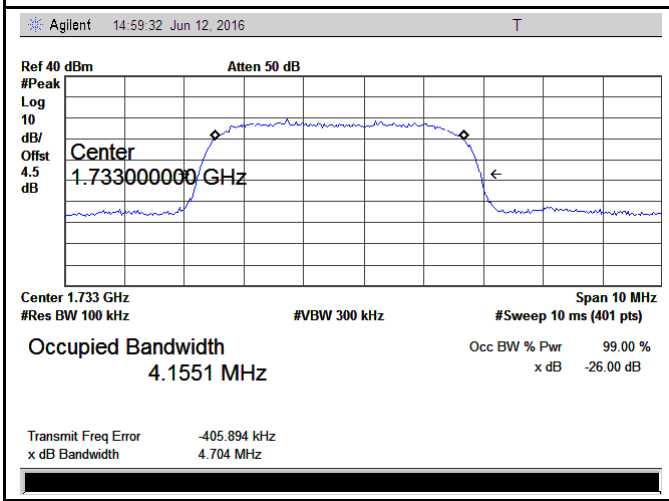
Band V BW - Mid CH 835.0 MHz



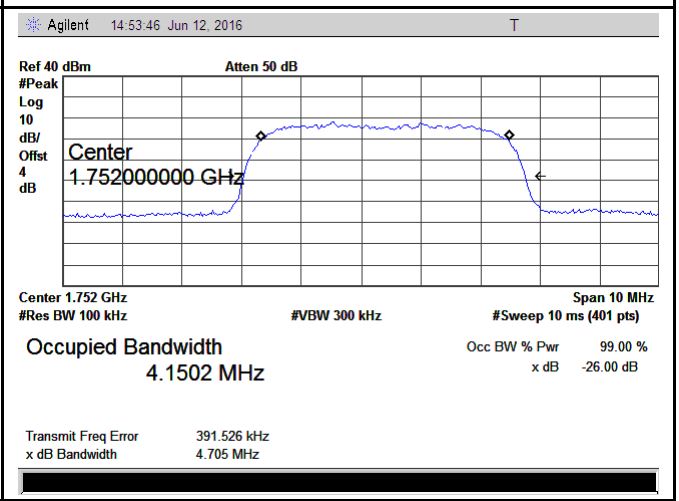
Band V BW - High CH 846.4 MHz



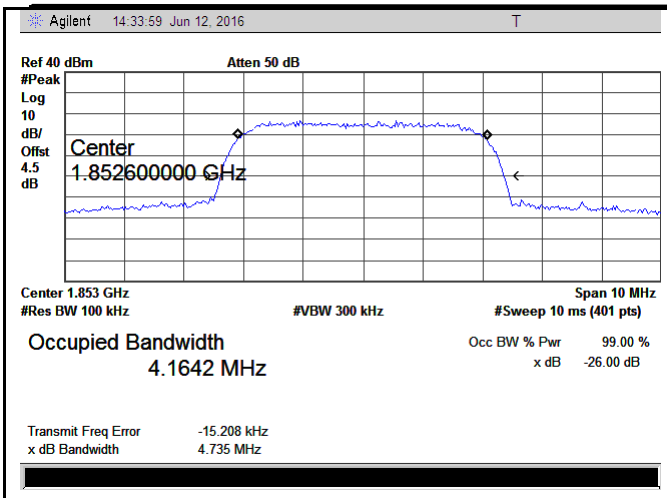
Band IV BW - Low CH 1712.6MHz



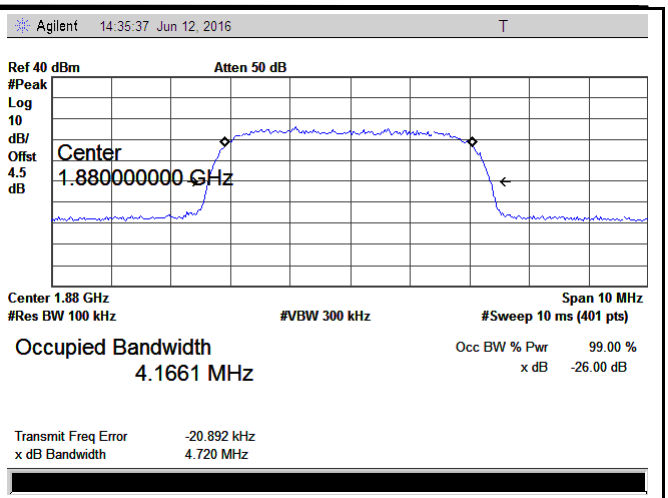
Band IV BW - Mid CH 1732.6MHz



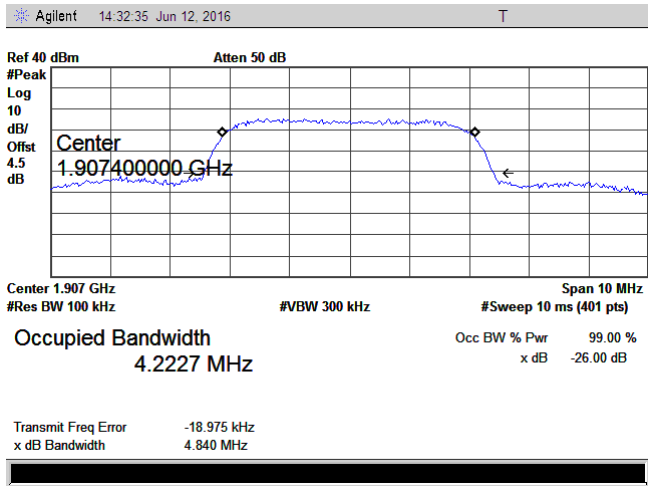
Band IV BW - High CH 1752.4MHz



Band II BW - Low CH 1852.4MHz

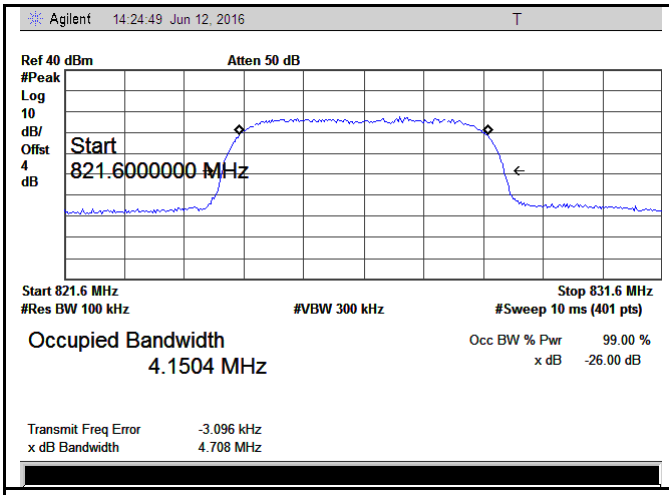


Band II BW - Mid CH 1880MHz

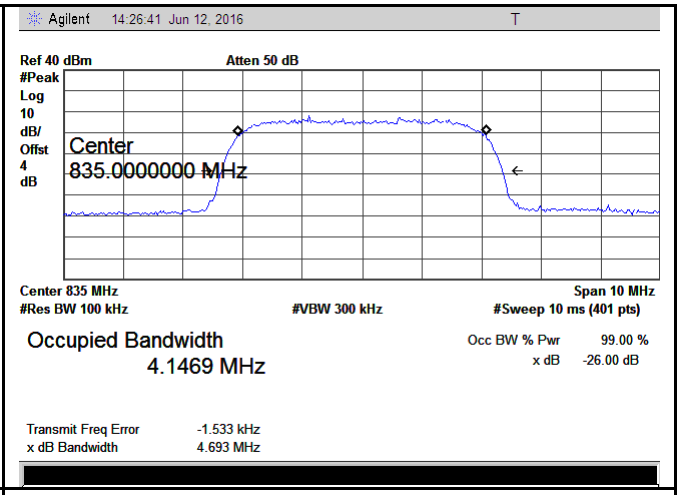


Band II BW - High CH 1907.6MHz

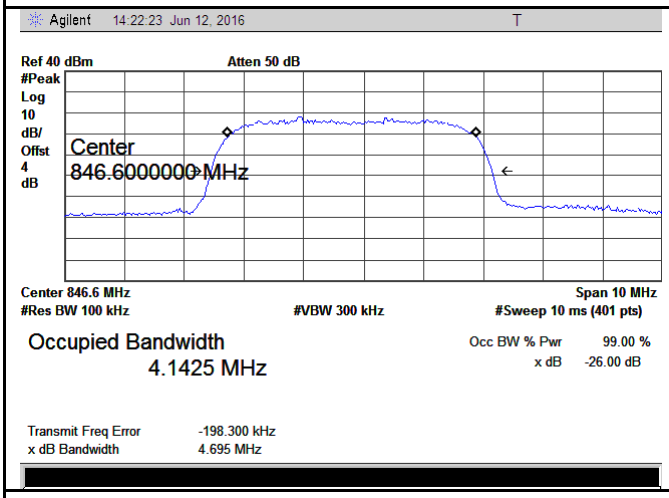
HSDPA:



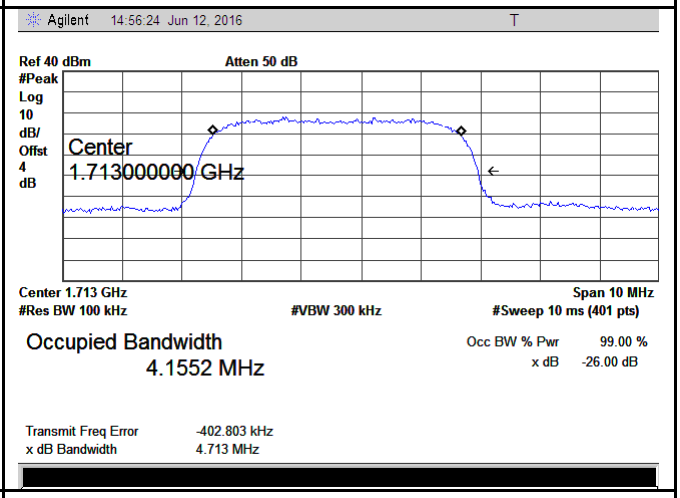
Band V BW - Low CH 826.6 MHz



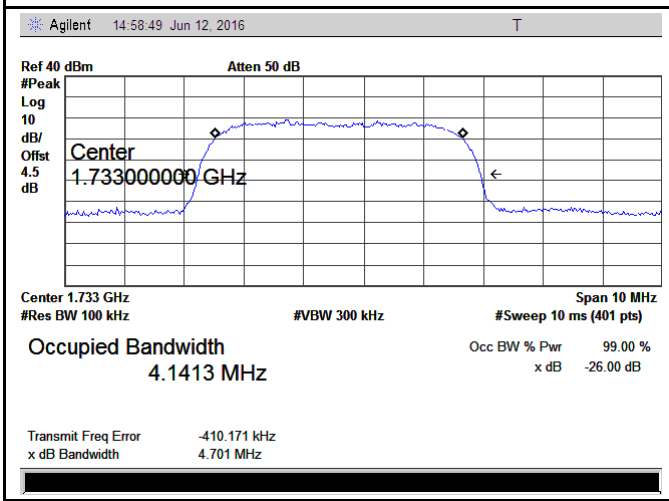
Band V BW - Mid CH 835.0 MHz



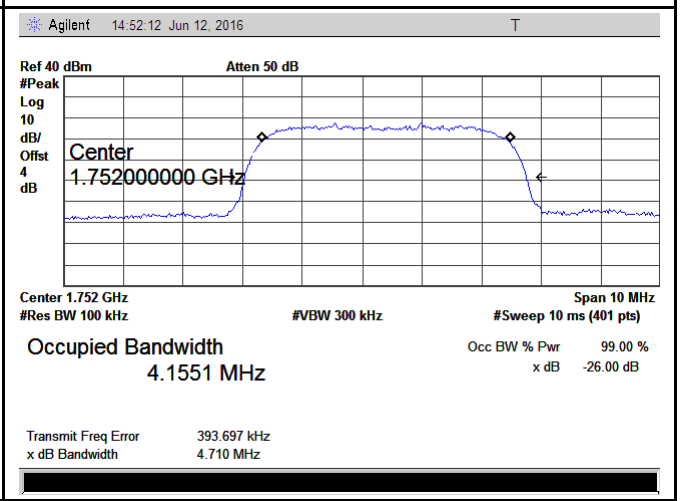
Band V BW - High CH 846.4 MHz



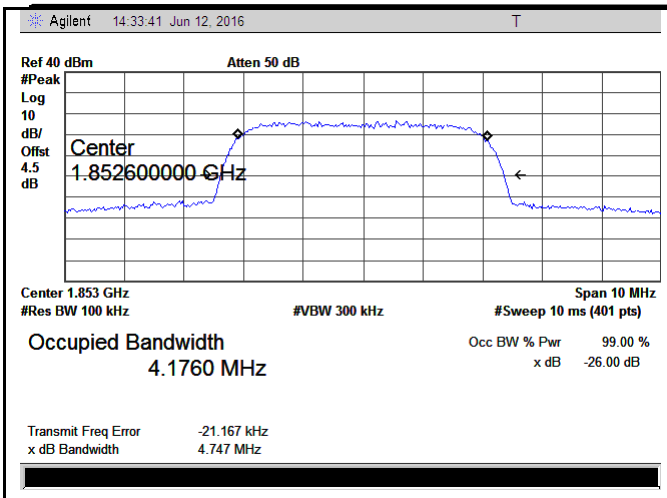
Band IV BW - Low CH 1712.6MHz



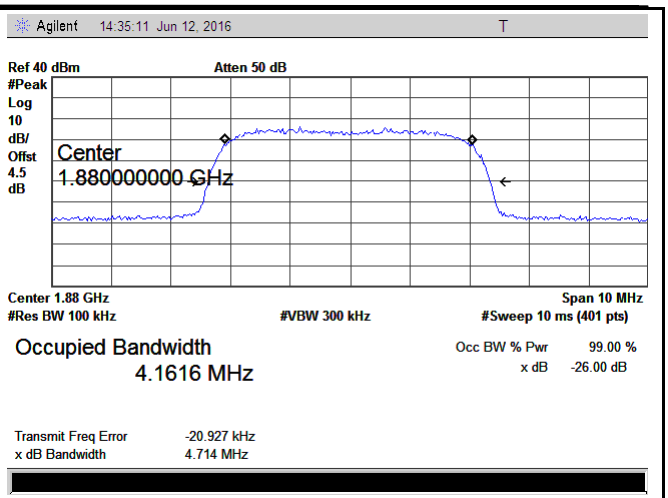
Band IV BW - Mid CH 1732.6MHz



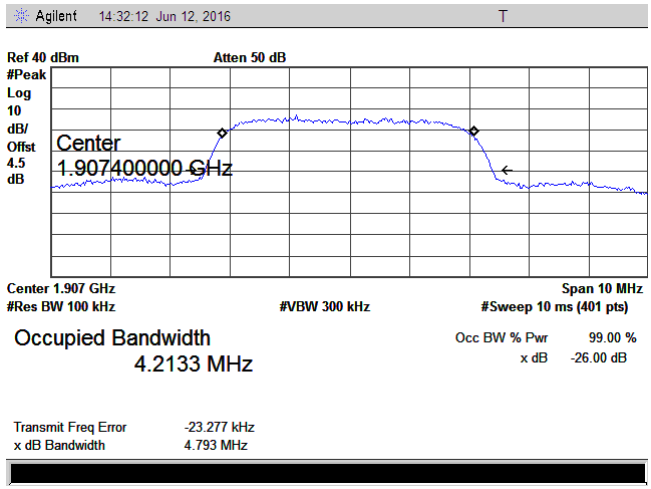
Band IV BW - High CH 1752.4MHz



Band II BW - Low CH 1852.4MHz



Band II BW - Mid CH 1880MHz

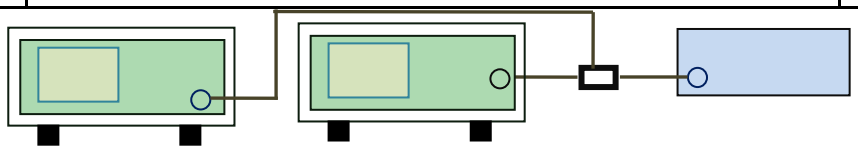


Band II BW - High CH 1907.6MHz

6.5 Spurious Emissions at Antenna Terminals

Temperature	22℃
Relative Humidity	55%
Atmospheric Pressure	1013mbar
Test date :	June 13, 2016
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§2.1051, §22.917(a)& §24.238(a) § 27.53(h)	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	☑
Test Setup			
Test Procedure	- 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	☑ Pass ☐ Fail		

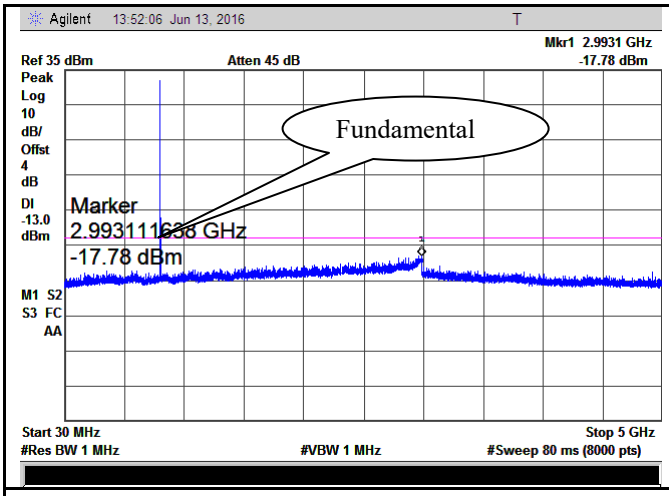
Test Data ☑ Yes ☐ N/A

Test Plot ☑ Yes (See below) ☐ N/A

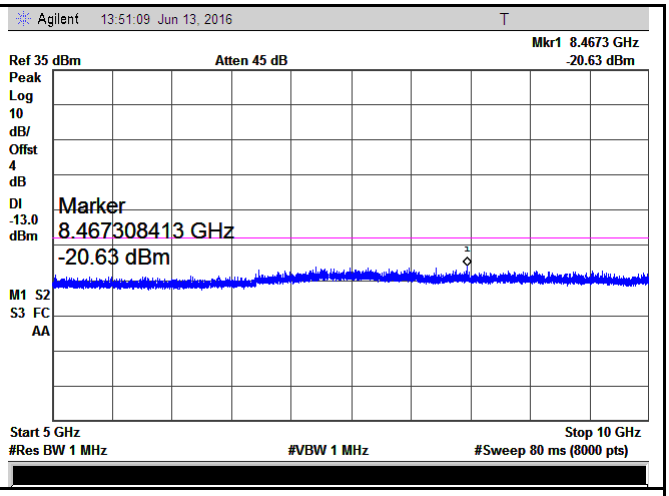
Test Plots

GSM Voice:

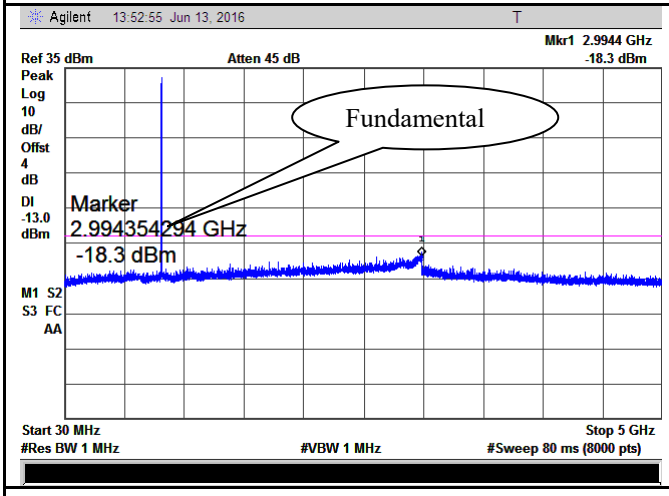
Cellular Band (Part 22H) result



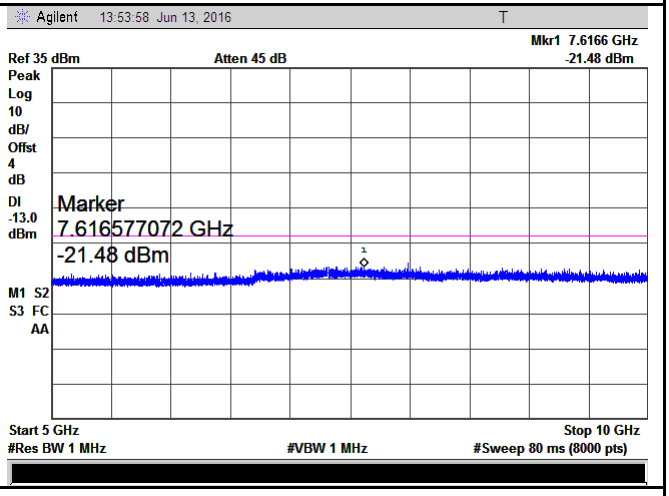
GSM 850 - Low Channel-1



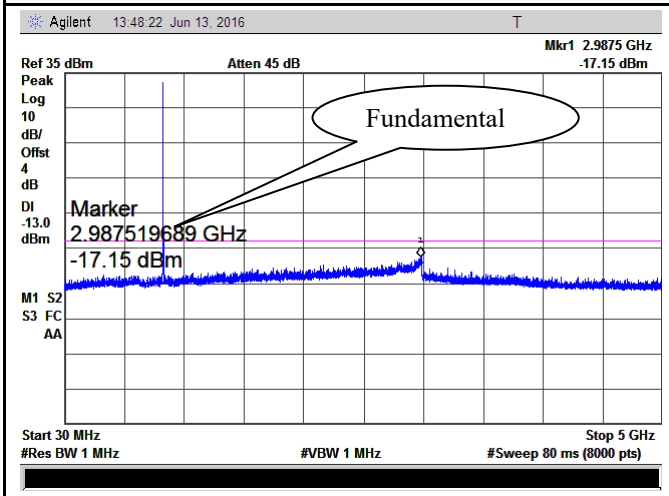
GSM 850 - Low Channel-2



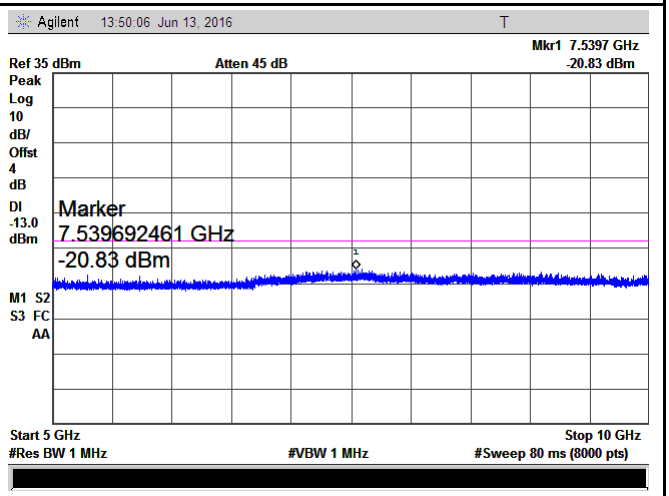
GSM 850 Middle Channel-1



GSM 850 Middle Channel-2

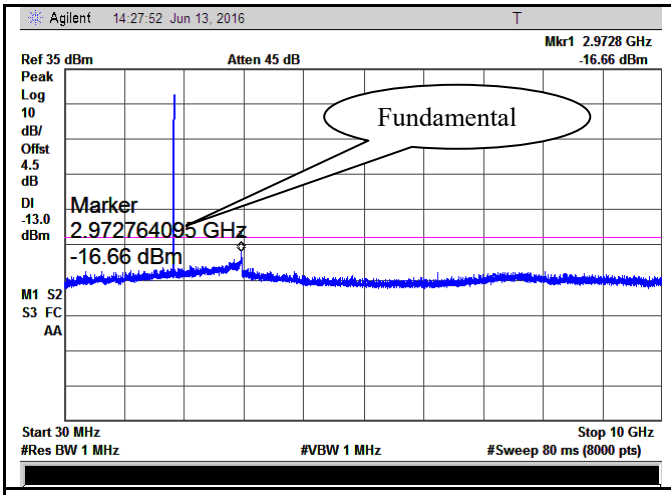


GSM 850 - High Channel-1

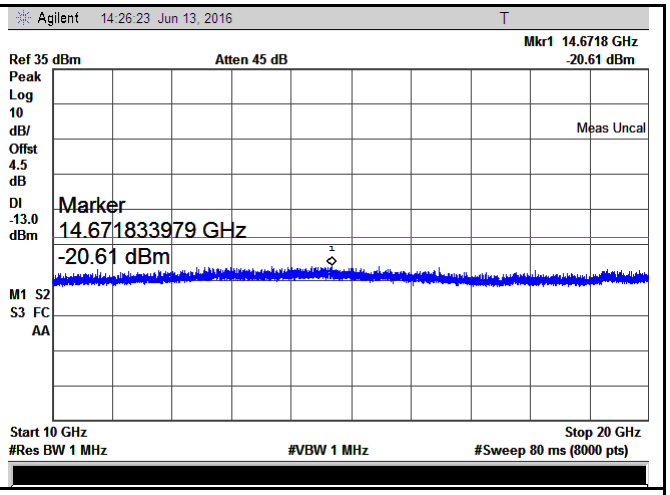


GSM 850 - High Channel-2

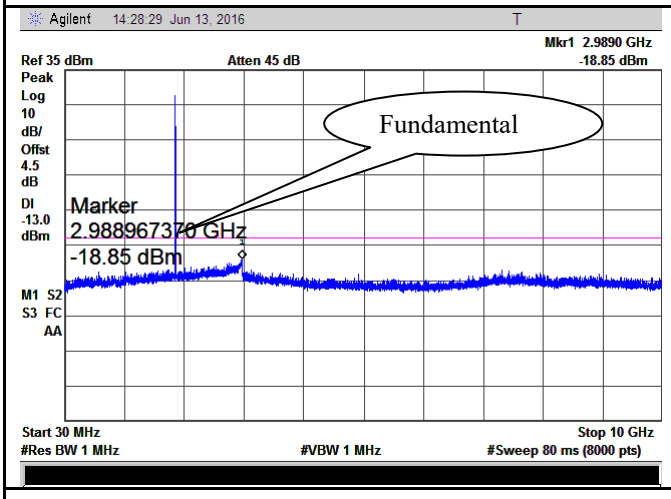
PCS Band (Part24E) result



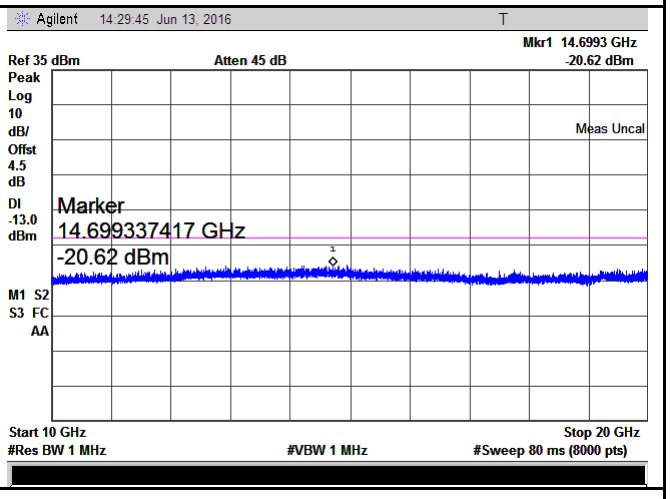
PCS1900 - Low Channel-1



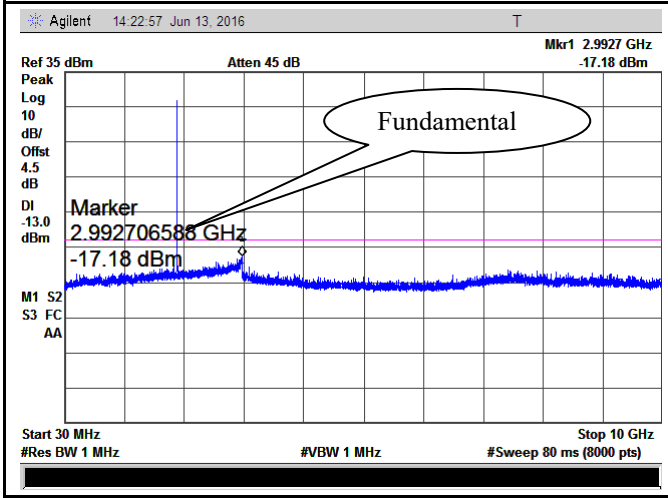
PCS 1900 - Low Channel-2



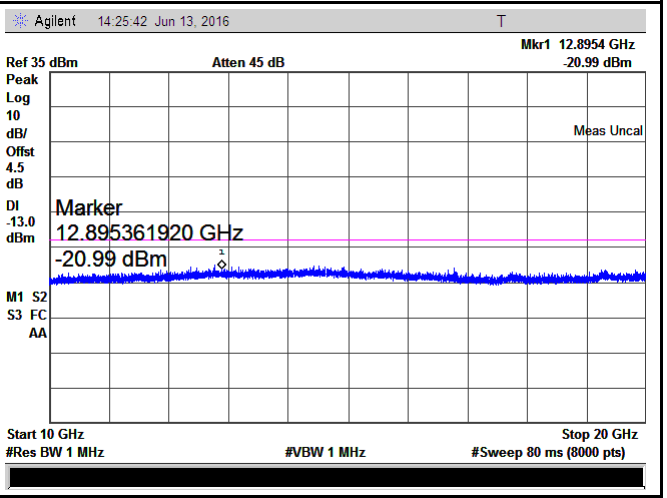
PCS1900 - Middle Channel-1



PCS 1900 - Middle Channel-2



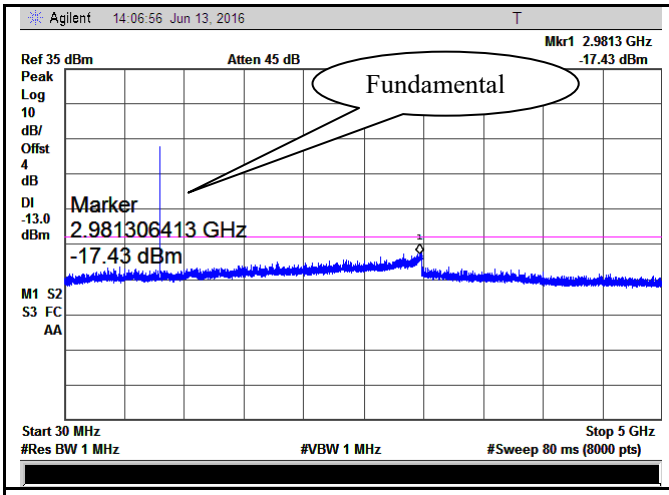
PCS1900 - High Channel-1



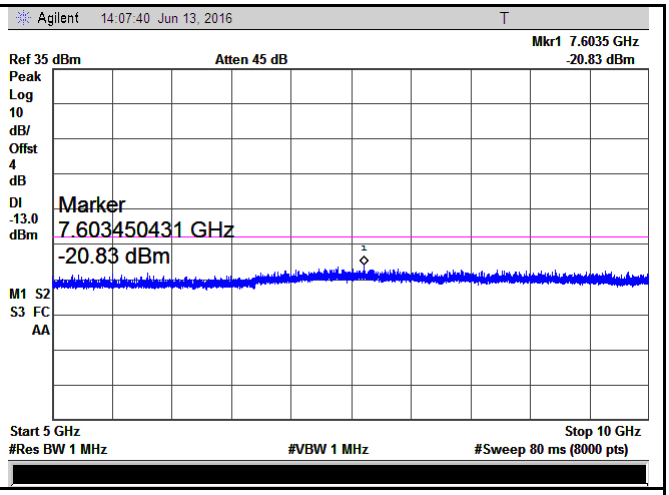
PCS 1900 - High Channel-2

GPRS:

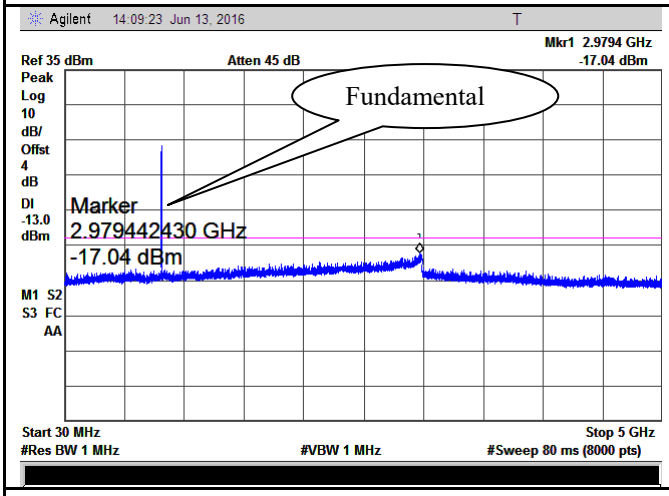
Cellular Band (Part 22H) result



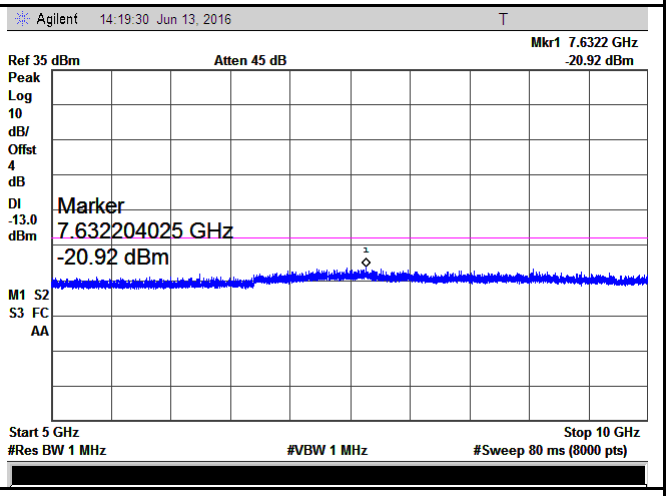
GSM 850 - Low Channel-1



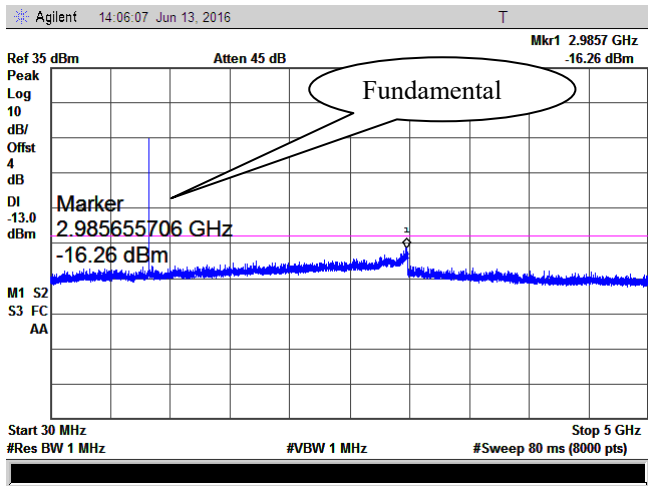
GSM 850 - Low Channel-2



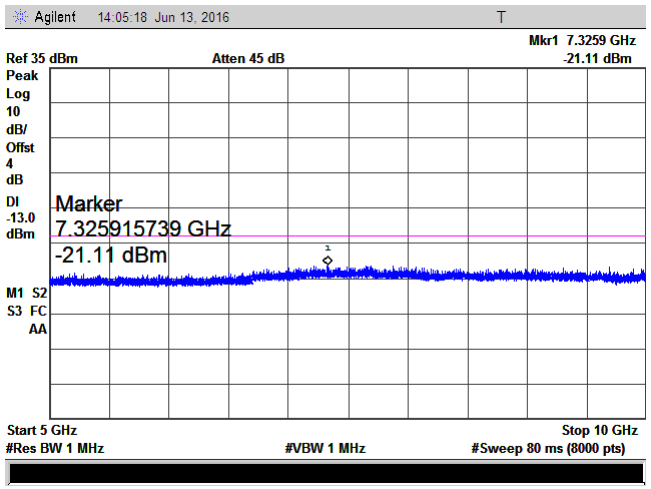
GSM 850 Middle Channel-1



GSM 850 Middle Channel-2

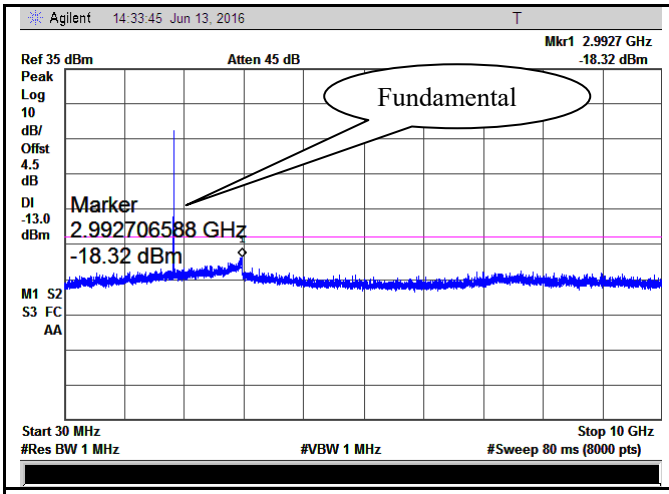


GSM 850 - High Channel-1

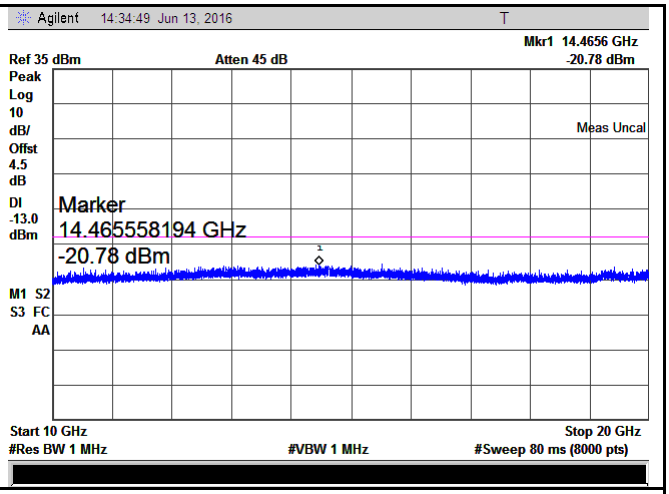


GSM 850 - High Channel-2

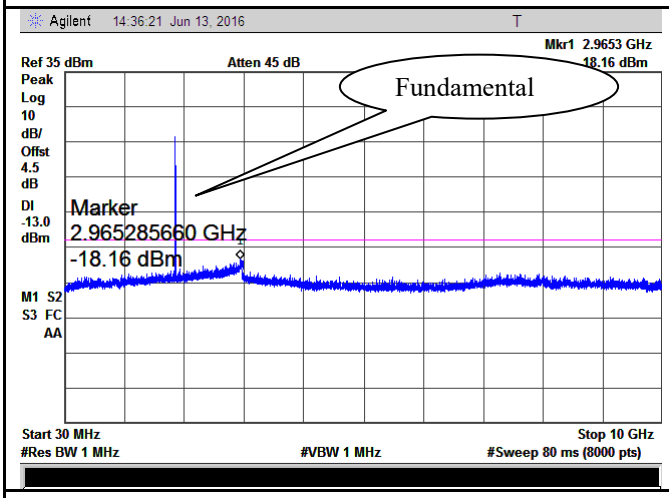
PCS Band (Part24E) result



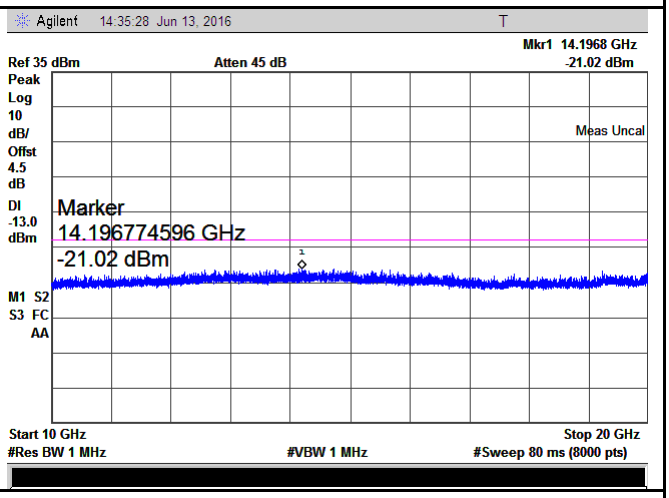
PCS1900 - Low Channel-1



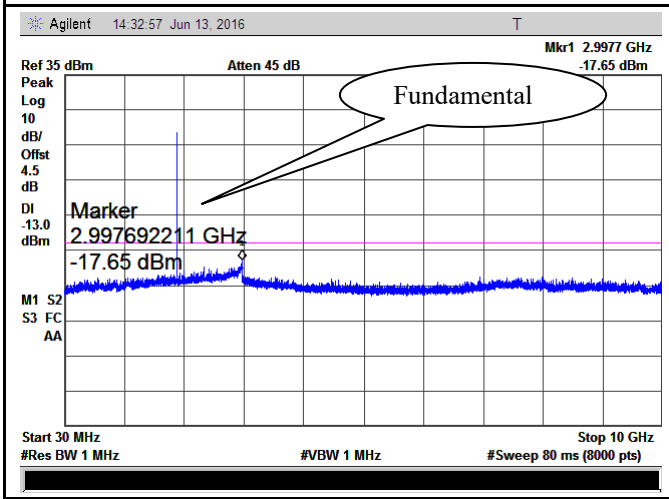
PCS 1900 - Low Channel-2



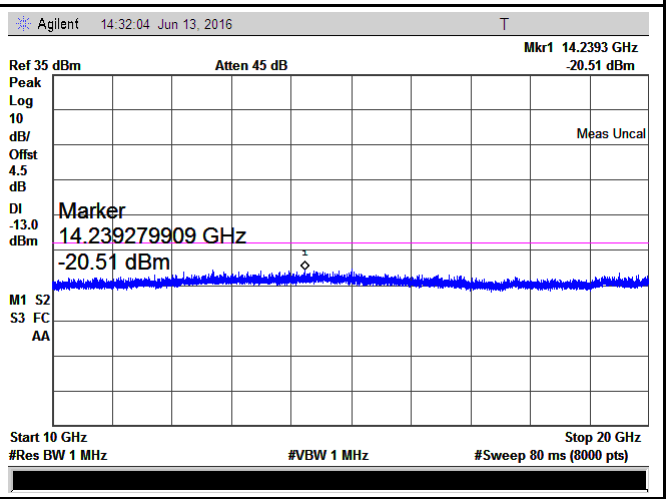
PCS1900 - Middle Channel-1



PCS 1900 - Middle Channel-2



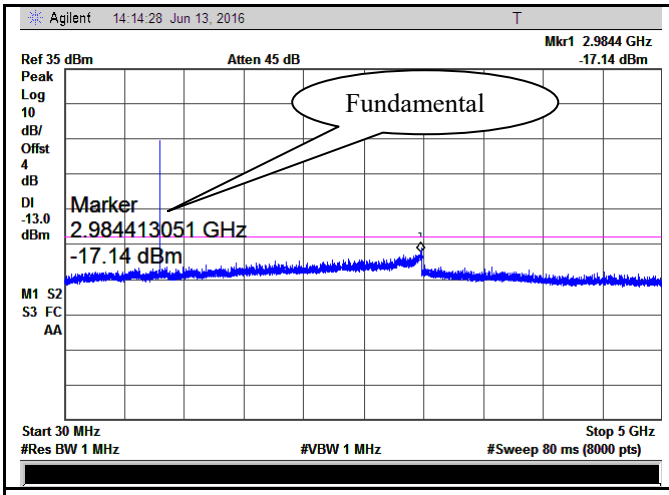
PCS1900 - High Channel-1



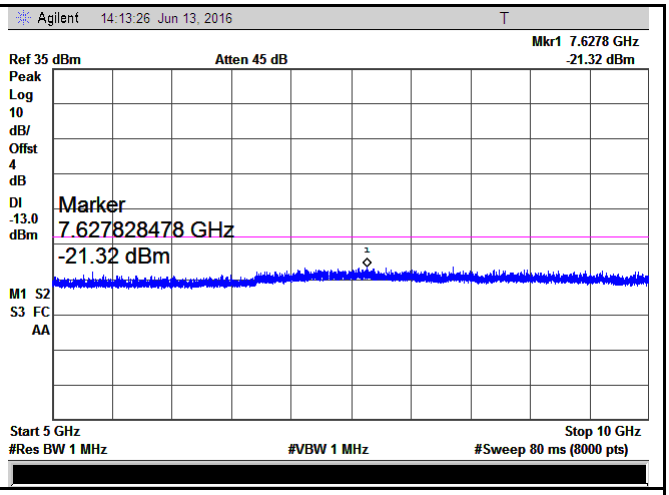
PCS 1900 - High Channel-2

EGPRS (MCS 1):

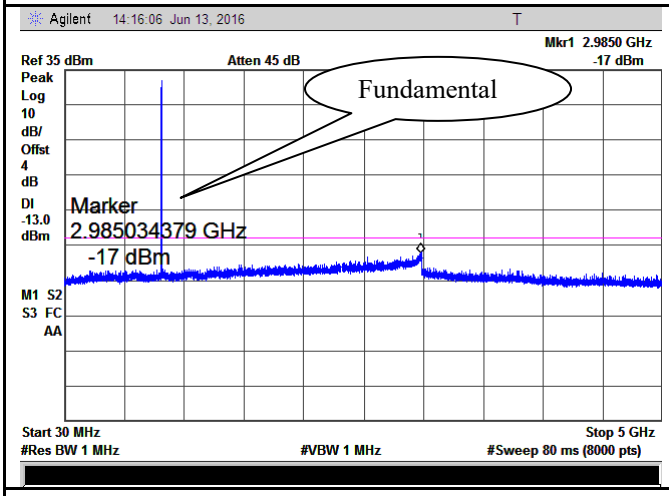
Cellular Band (Part 22H) result



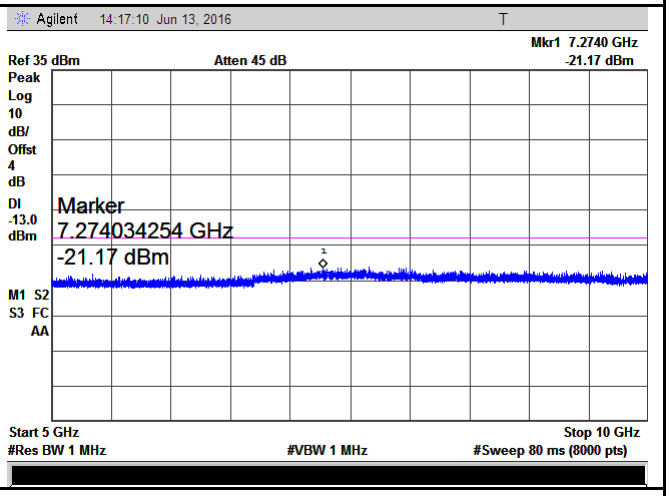
GSM 850 - Low Channel-1



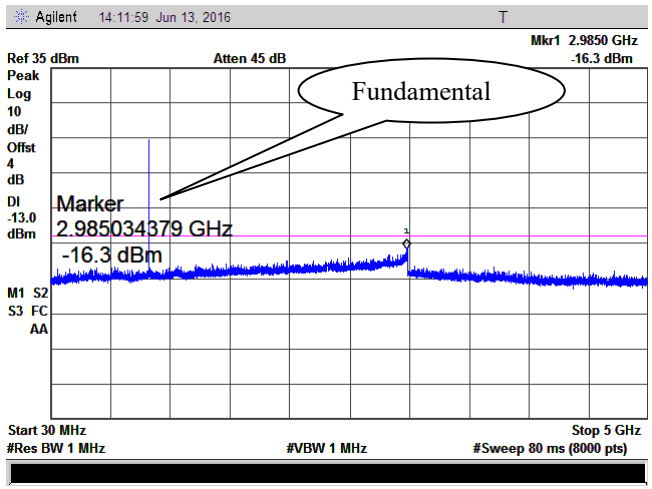
GSM 850 - Low Channel-2



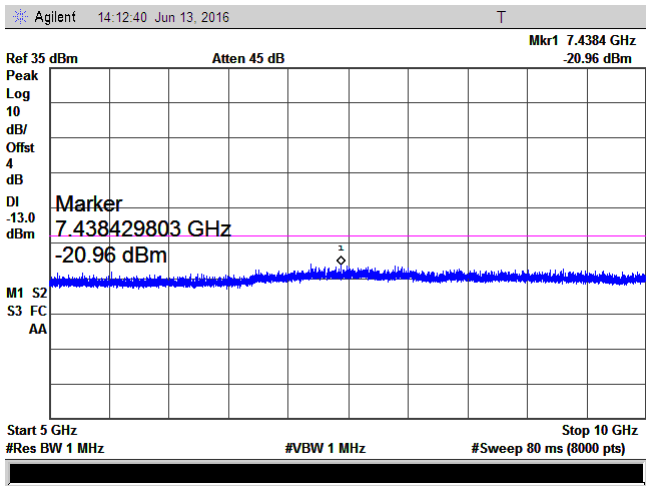
GSM 850 Middle Channel-1



GSM 850 Middle Channel-2

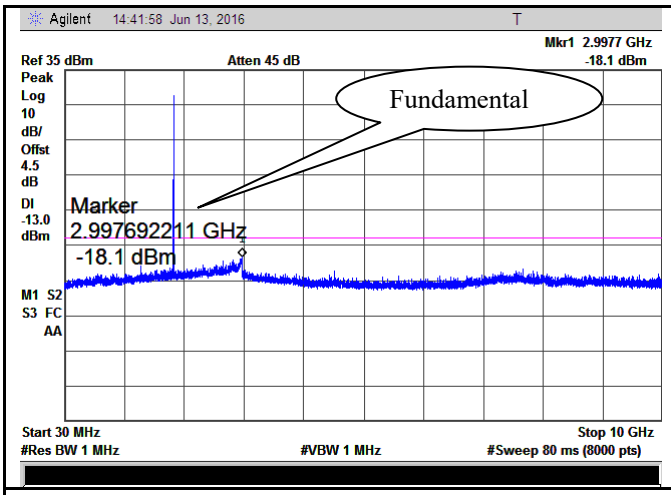


GSM 850 - High Channel-1

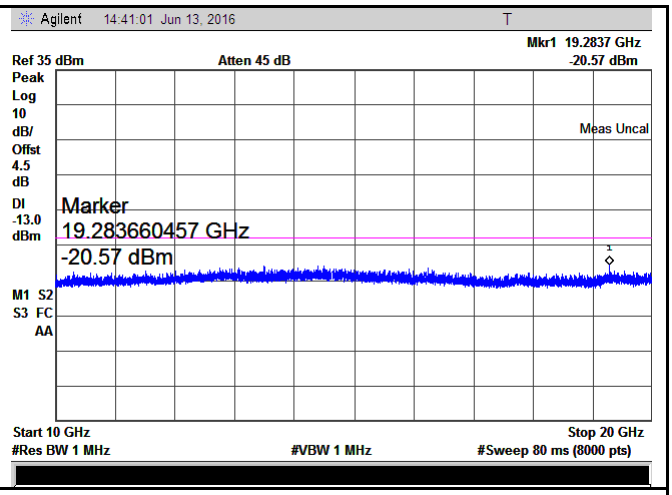


GSM 850 - High Channel-2

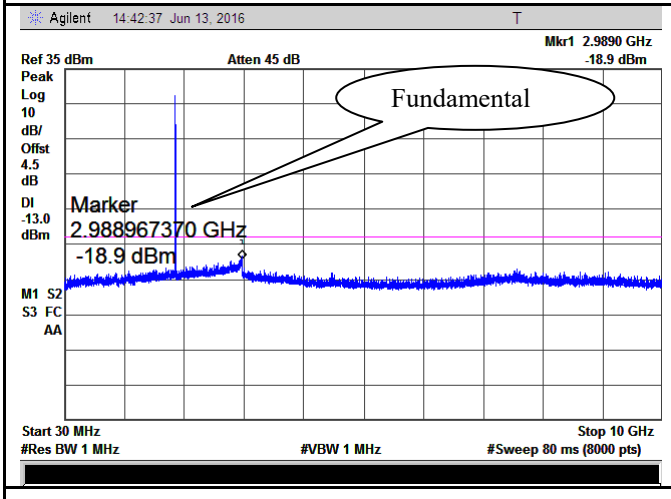
PCS Band (Part24E) result



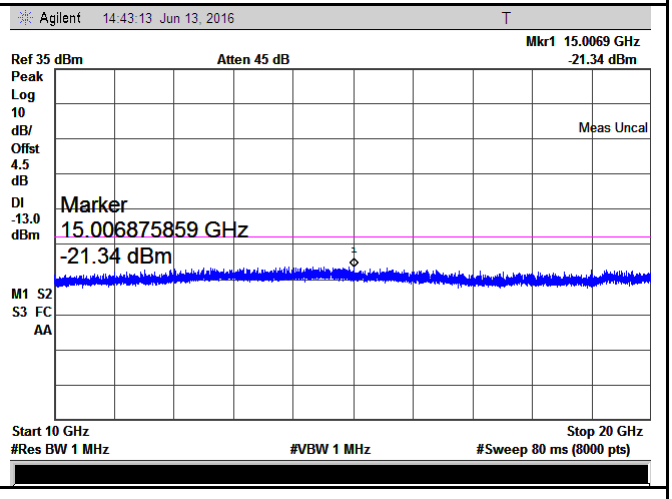
PCS1900 - Low Channel-1



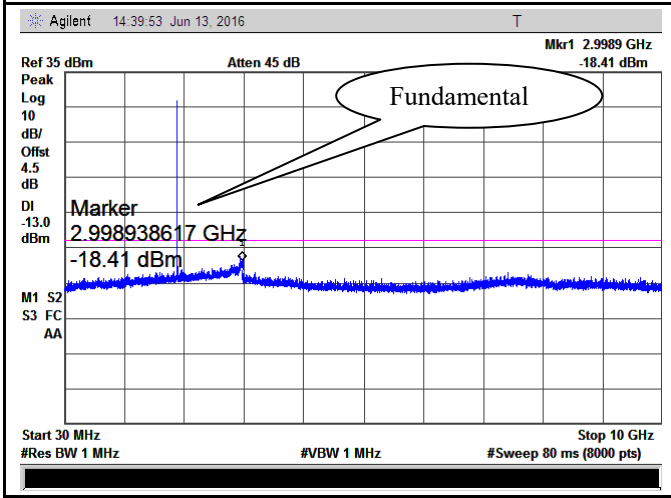
PCS 1900 - Low Channel-2



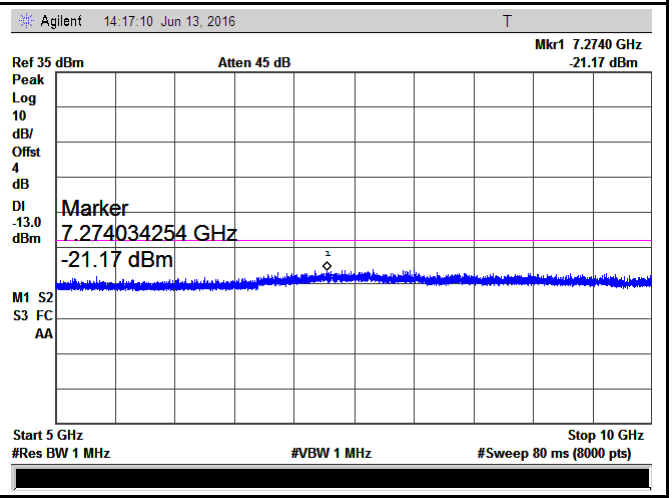
PCS1900 - Middle Channel-1



PCS 1900 - Middle Channel-2



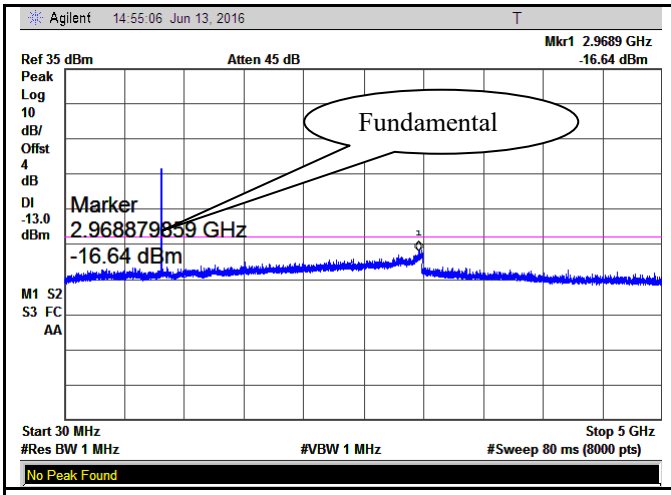
PCS1900 - High Channel-1



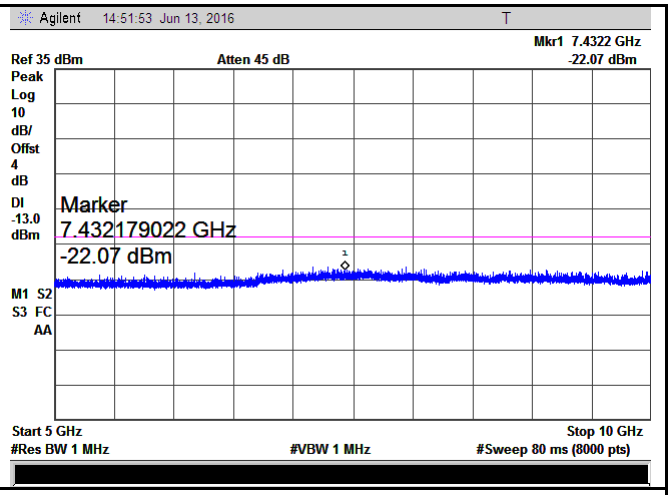
PCS 1900 - High Channel-2

RMC

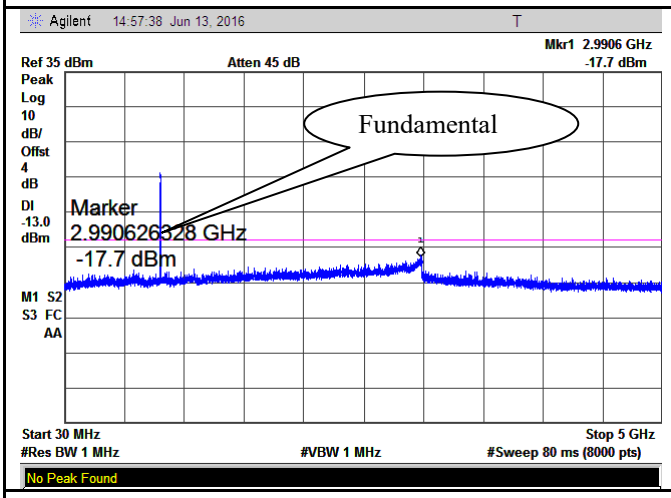
UMTS-FDD Band V (Part 22H)



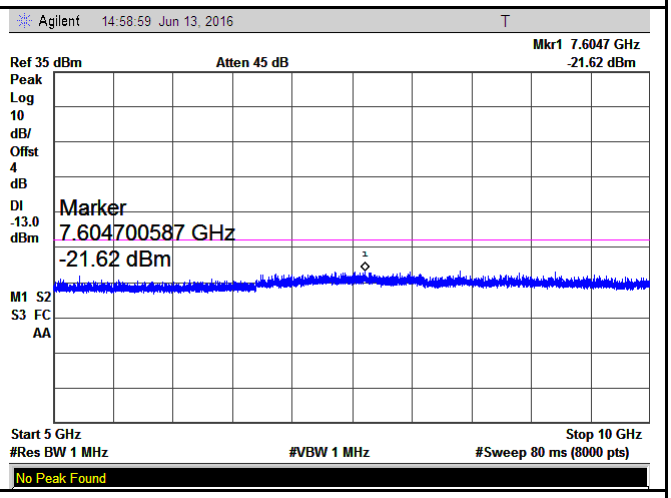
Band V - Low Channel-1



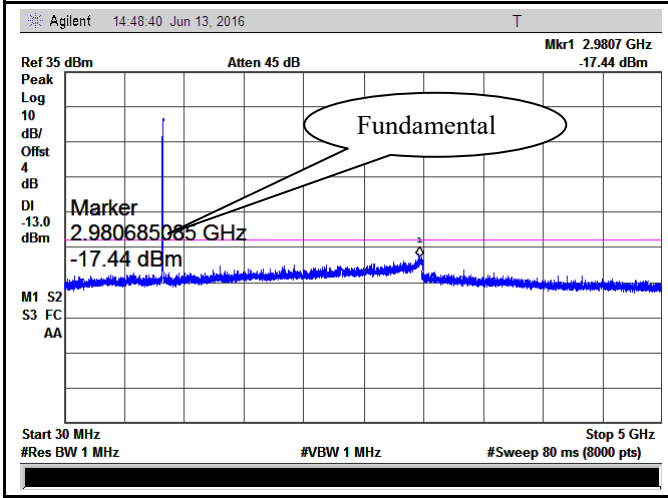
Band V - Low Channel-2



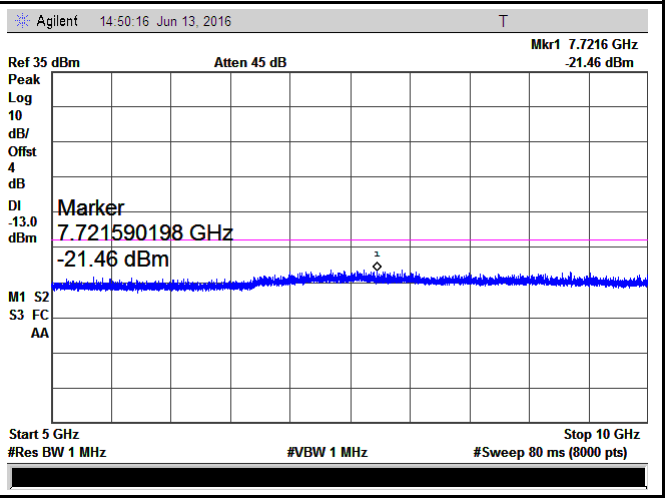
Band V - Middle Channel-1



Band V - Middle Channel-2

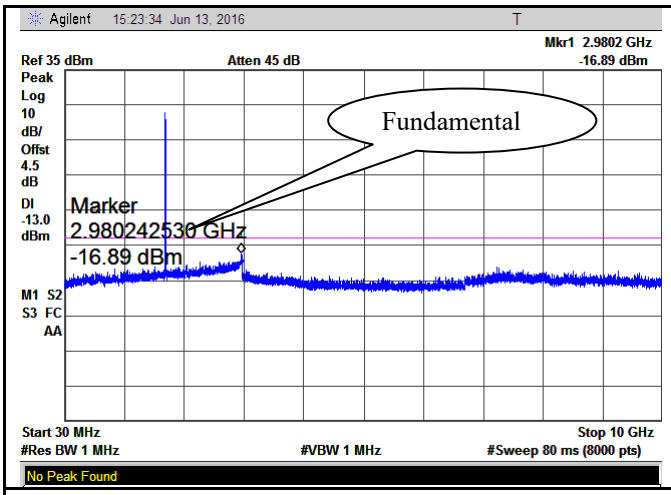


Band V - High Channel-1

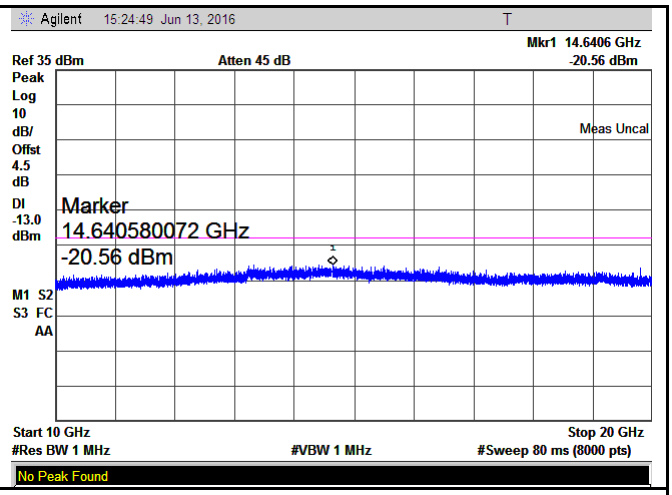


Band V - High Channel-2

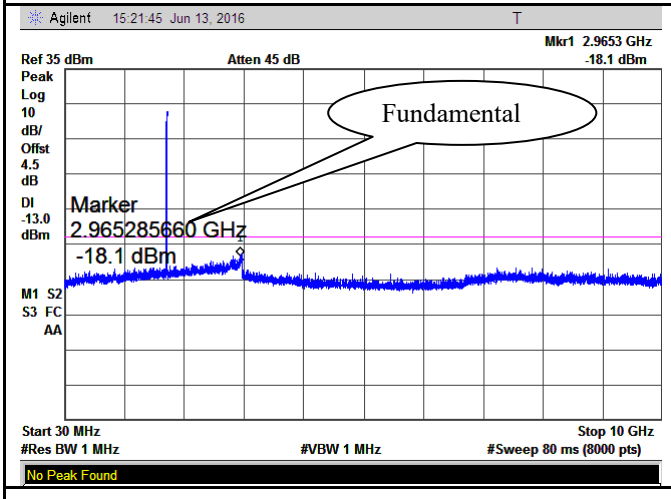
UMTS-FDD Band IV (Part 27)



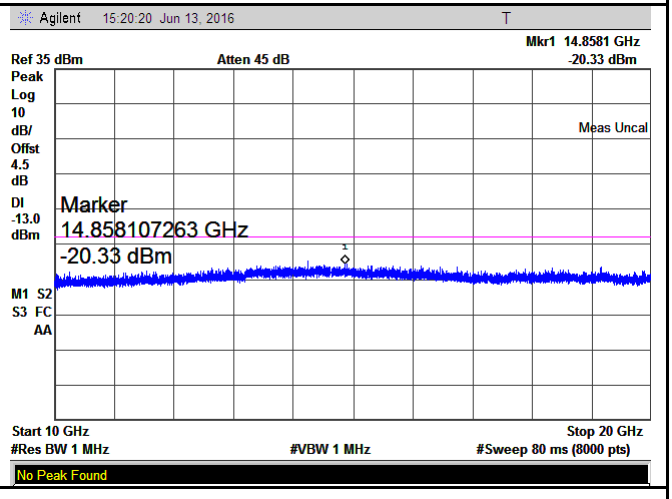
Band IV - Low Channel-1



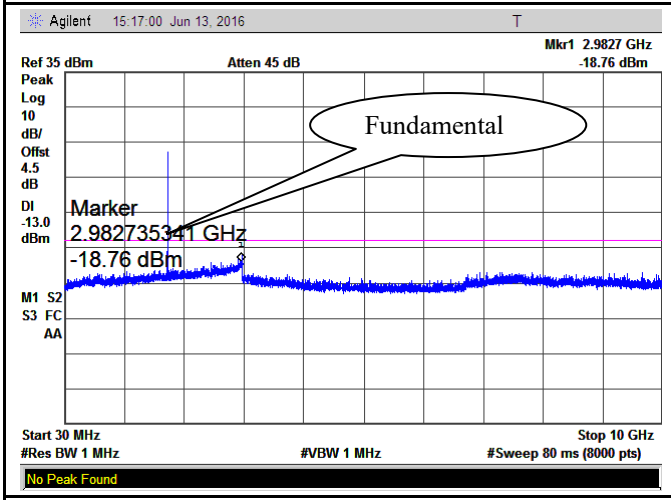
Band IV - Low Channel-2



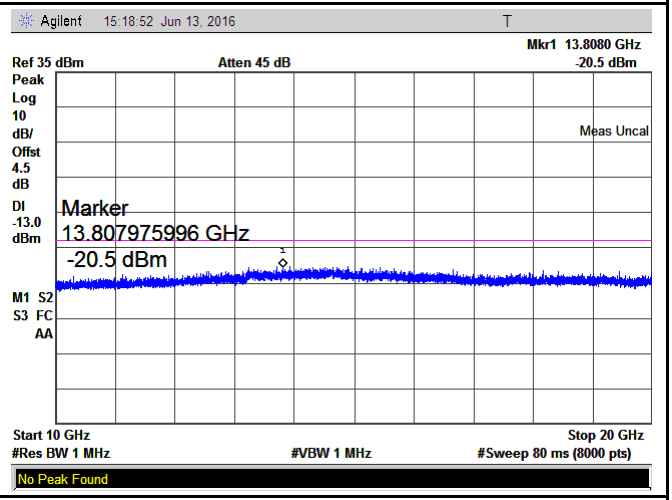
Band IV - Middle Channel-1



Band IV - Middle Channel-2

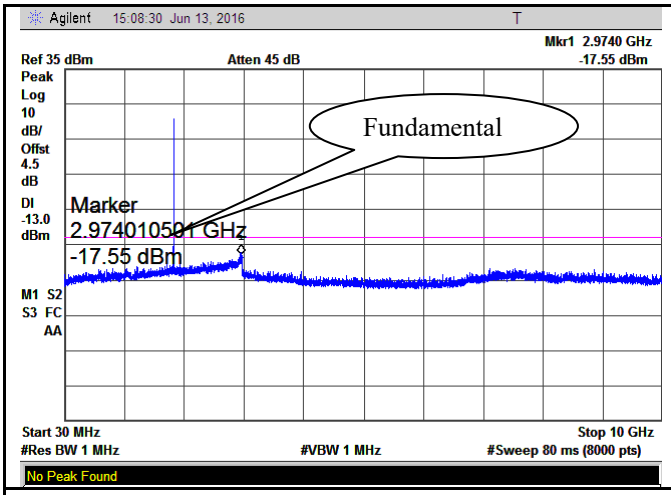


Band IV - High Channel-1

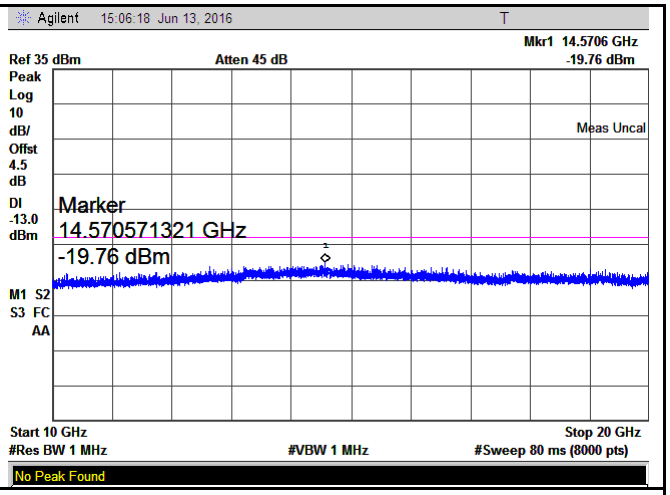


Band IV - High Channel-2

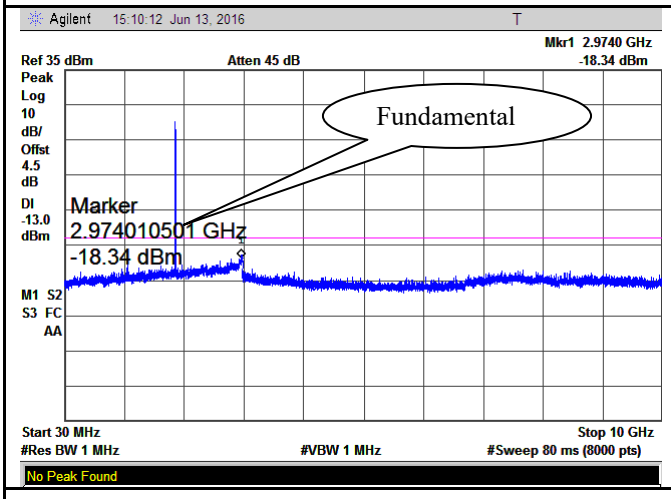
UMTS-FDD Band II (Part 24E)



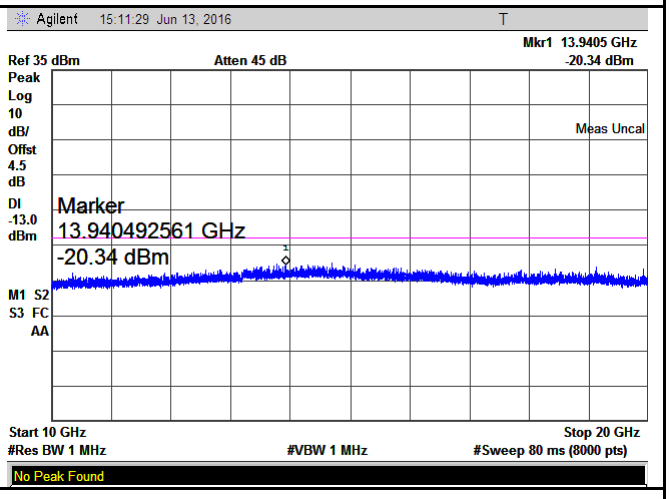
Band II - Low Channel-1



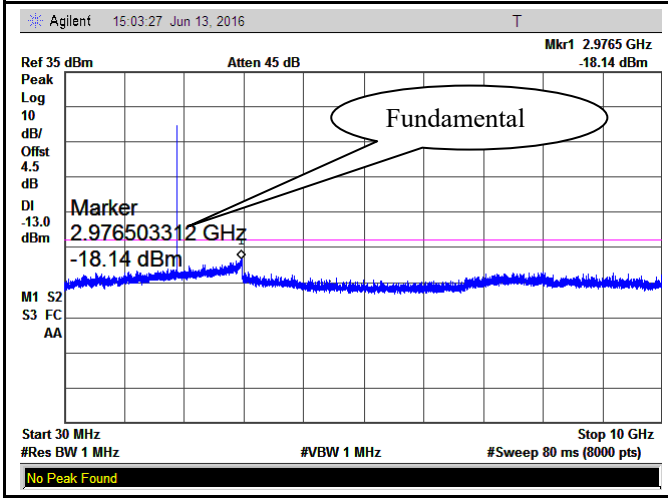
Band II - Low Channel-2



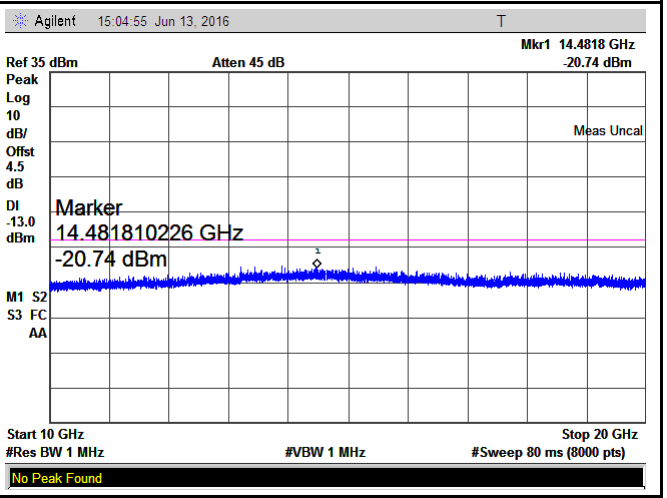
Band II - Middle Channel-1



Band II - Middle Channel-2



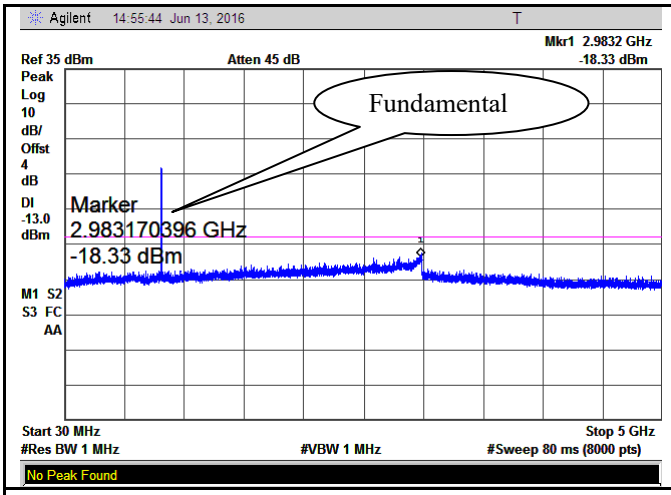
Band II - High Channel-1



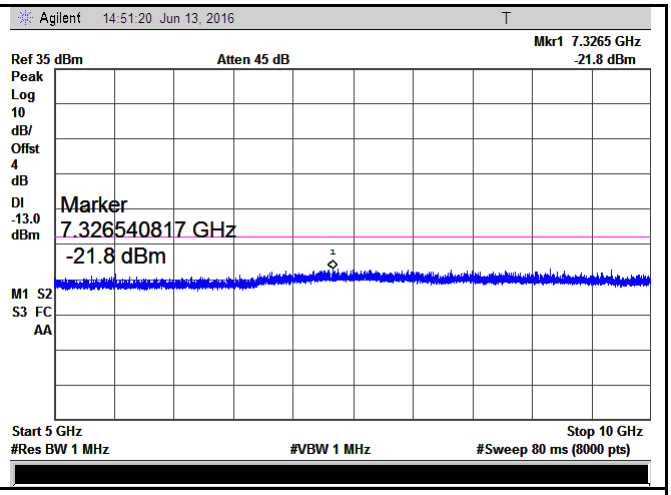
Band II - High Channel-2

HSUPA:

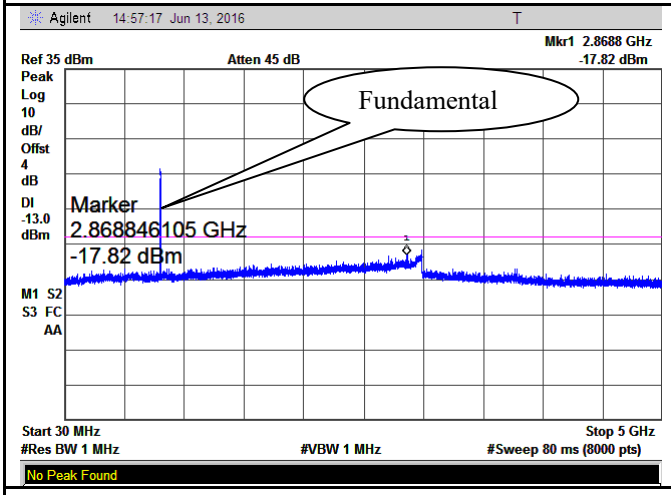
UMTS-FDD Band V (Part 22H)



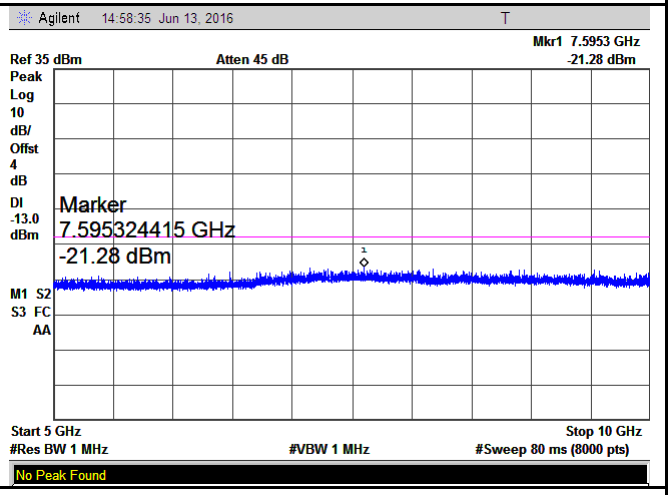
Band V - Low Channel-1



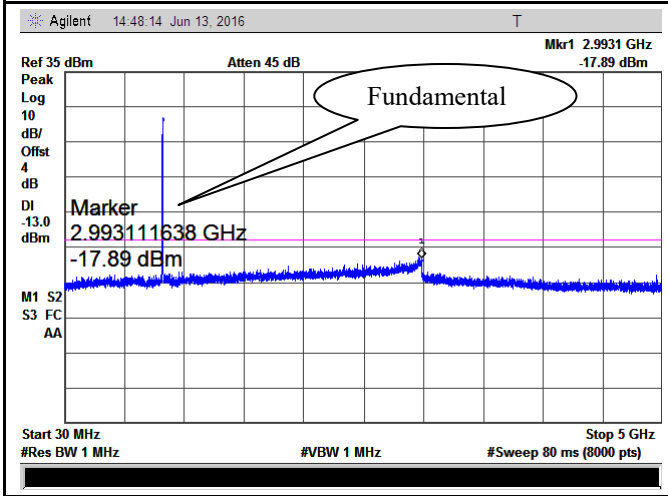
Band V - Low Channel-2



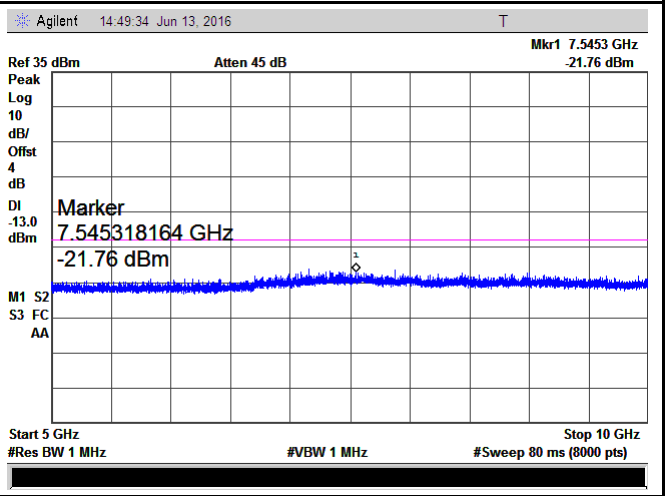
Band V - Middle Channel-1



Band V - Middle Channel-2

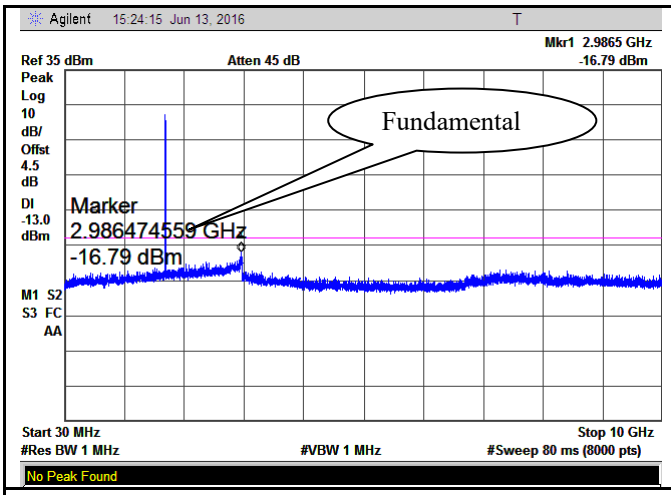


Band V - High Channel-1

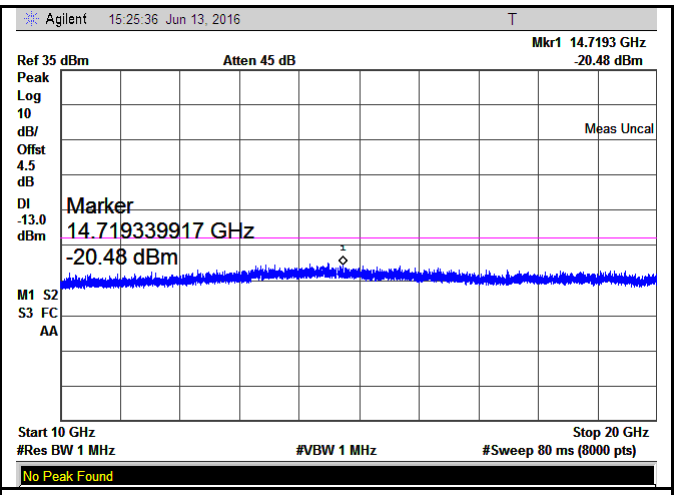


Band V - High Channel-2

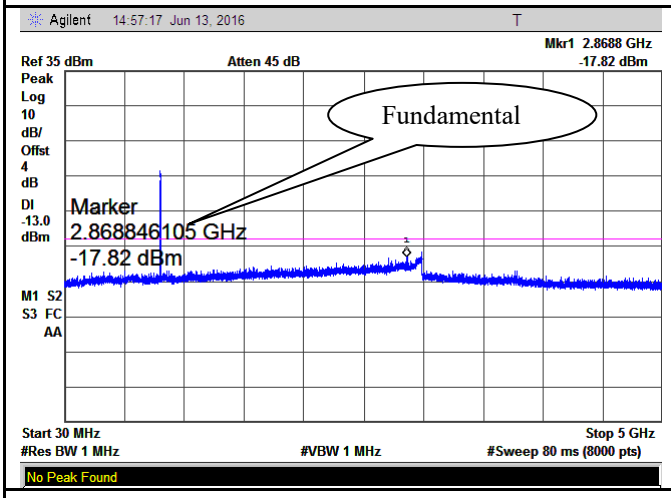
UMTS-FDD Band IV (Part 27)



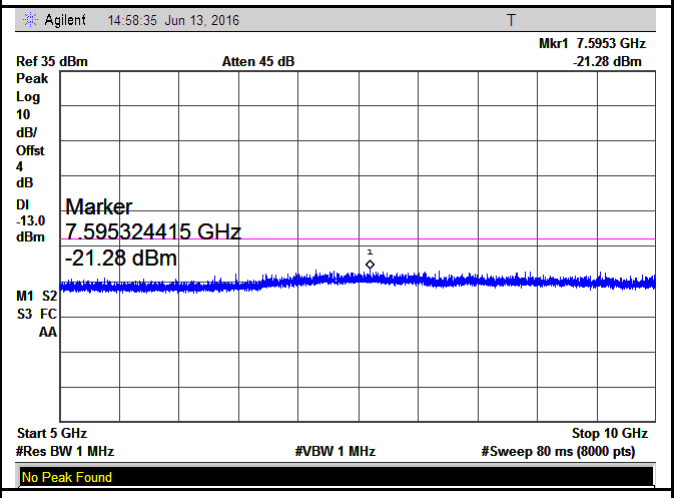
Band IV - Low Channel-1



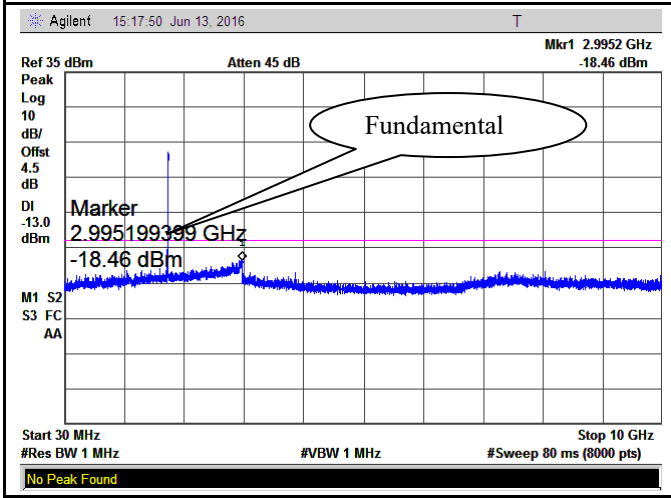
Band IV - Low Channel-2



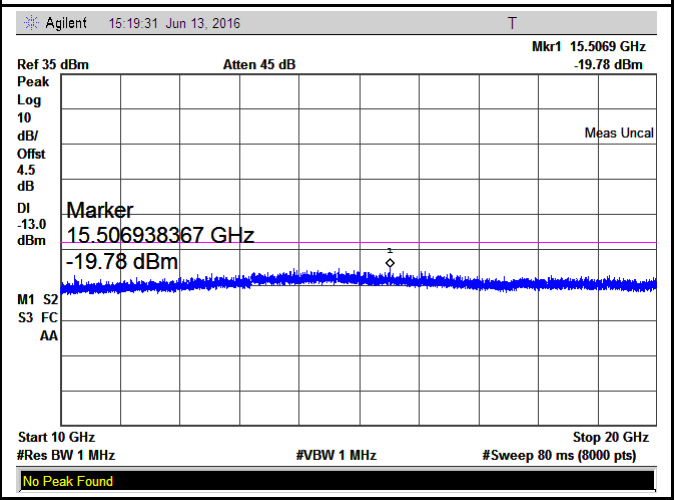
Band IV - Middle Channel-1



Band IV - Middle Channel-2

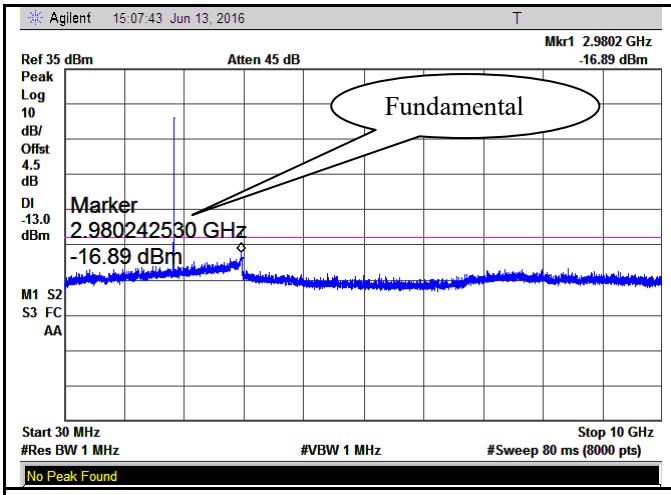


Band IV - High Channel-1

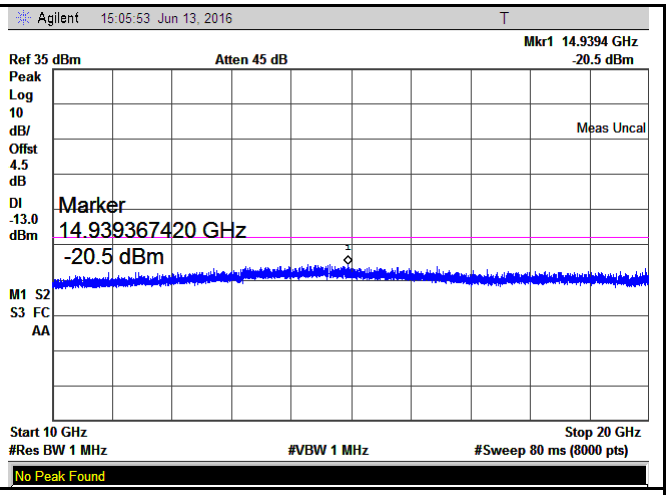


Band IV - High Channel-2

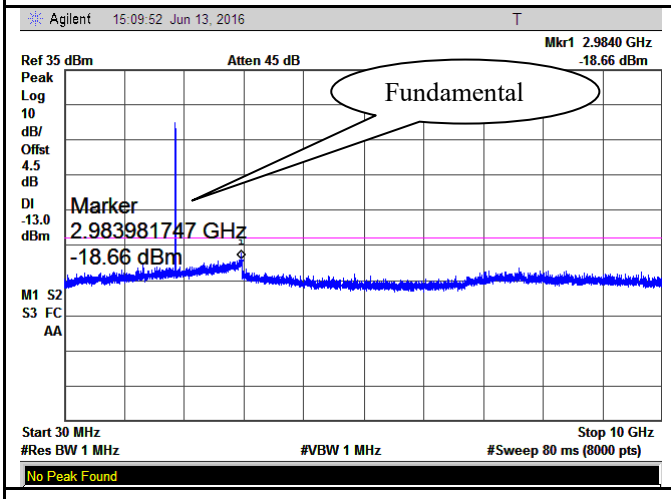
UMTS-FDD Band II (Part 24E)



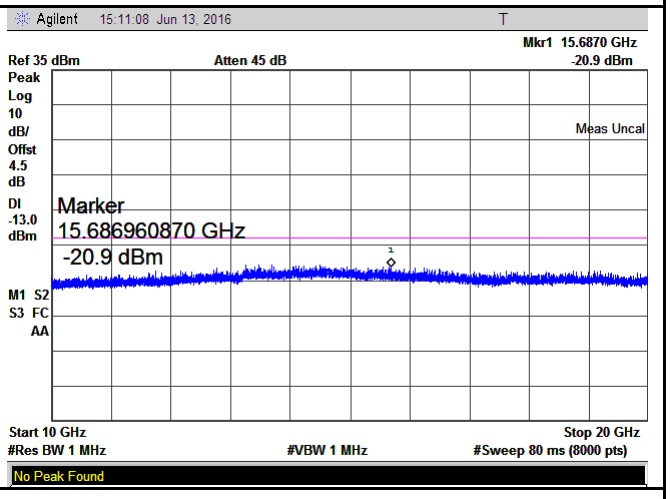
Band II - Low Channel-1



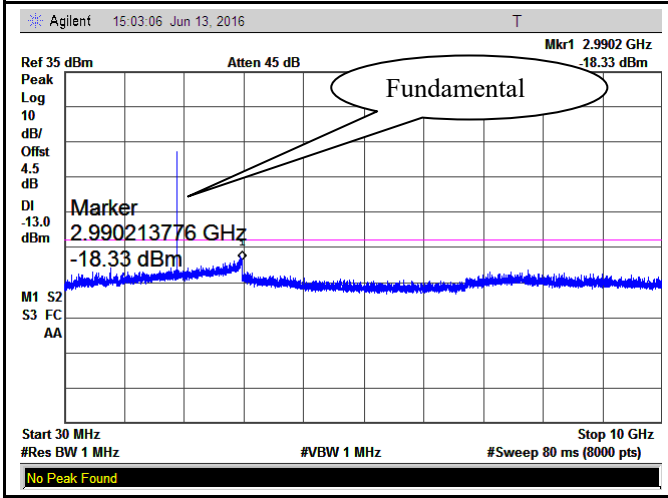
Band II - Low Channel-2



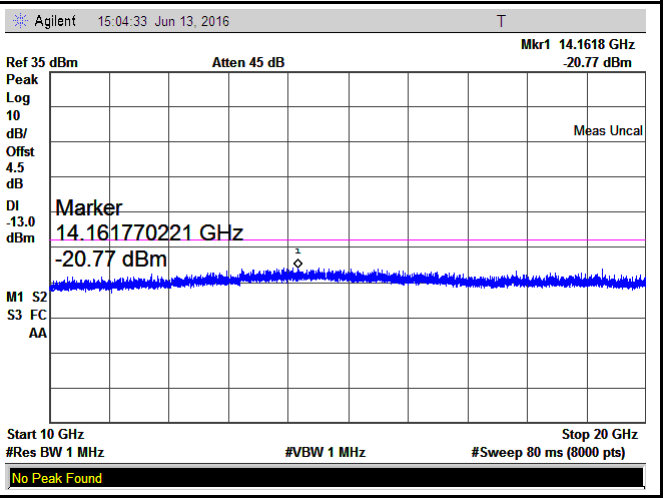
Band II - Middle Channel-1



Band II - Middle Channel-2



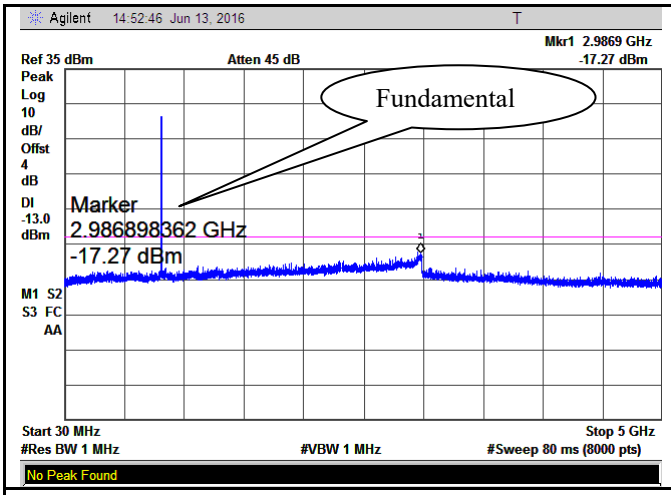
Band II - High Channel-1



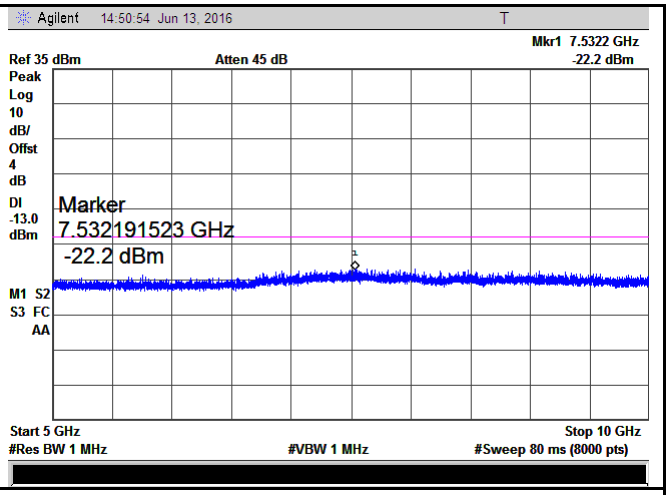
Band II - High Channel-2

HSDPA:

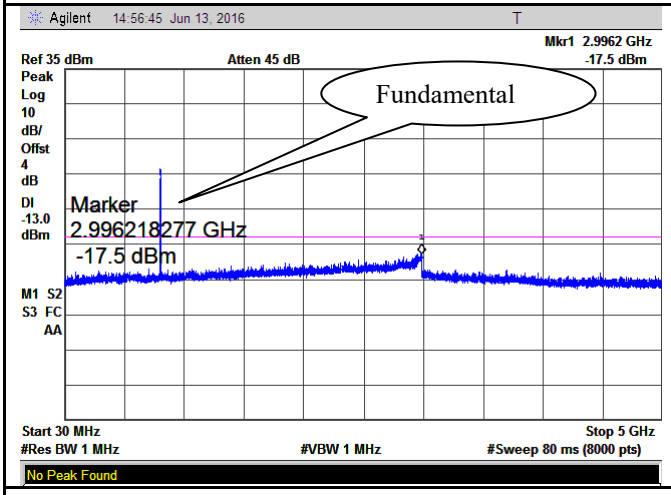
UMTS-FDD Band V (Part 22H)



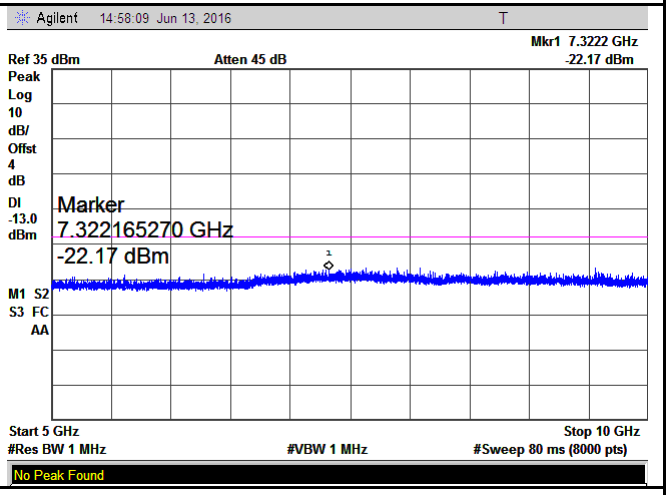
Band V - Low Channel-1



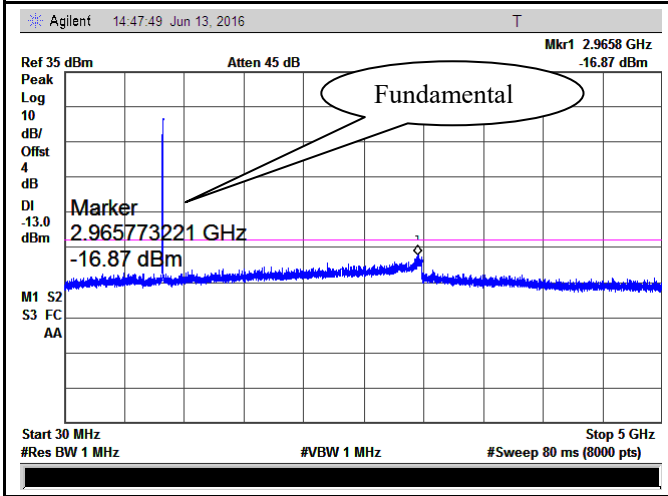
Band V - Low Channel-2



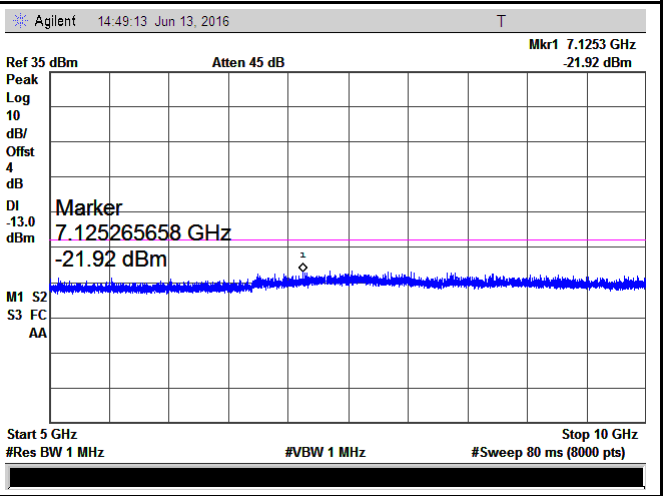
Band V - Middle Channel-1



Band V - Middle Channel-2

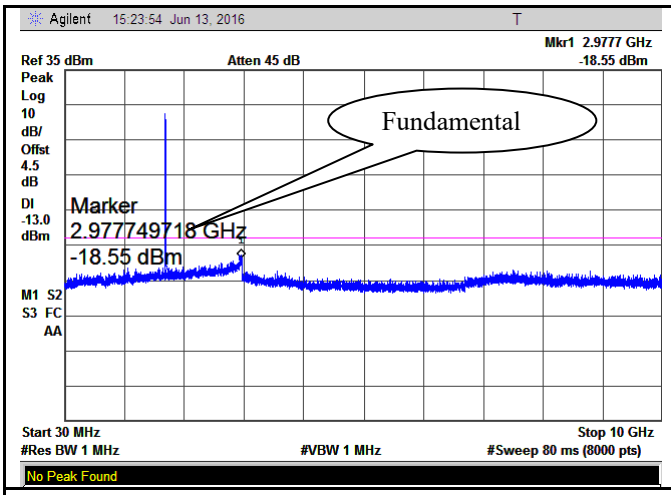


Band V - High Channel-1

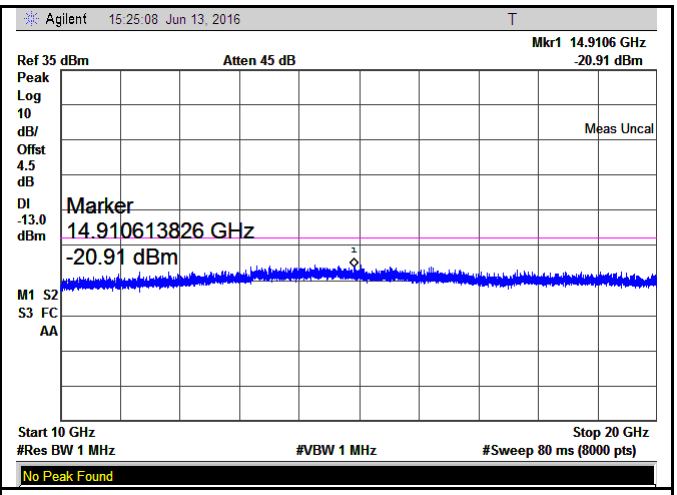


Band V - High Channel-2

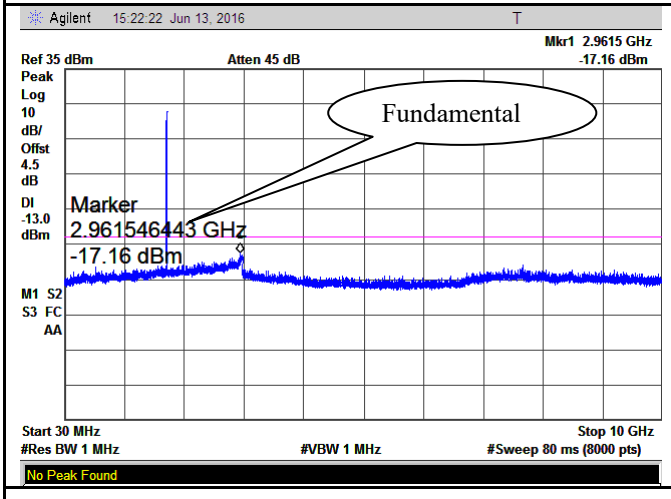
UMTS-FDD Band IV (Part 27)



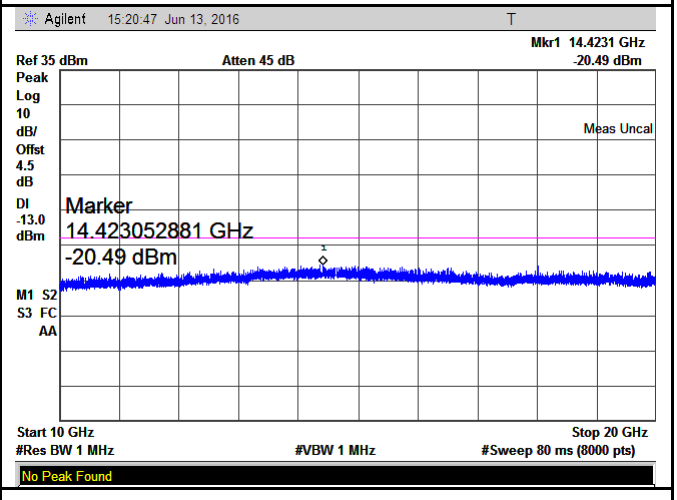
Band IV - Low Channel-1



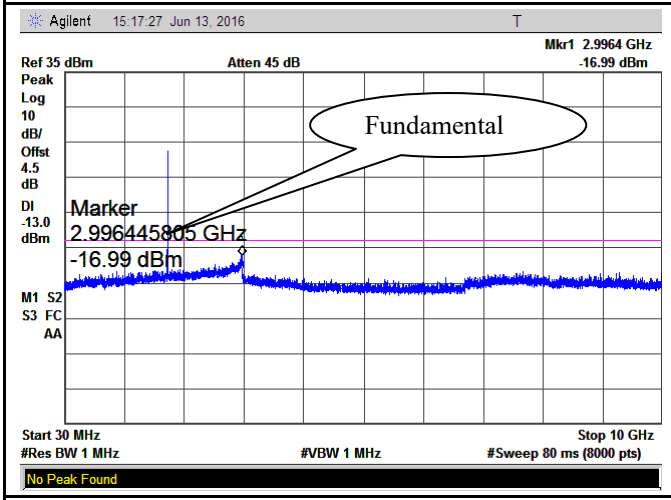
Band IV - Low Channel-2



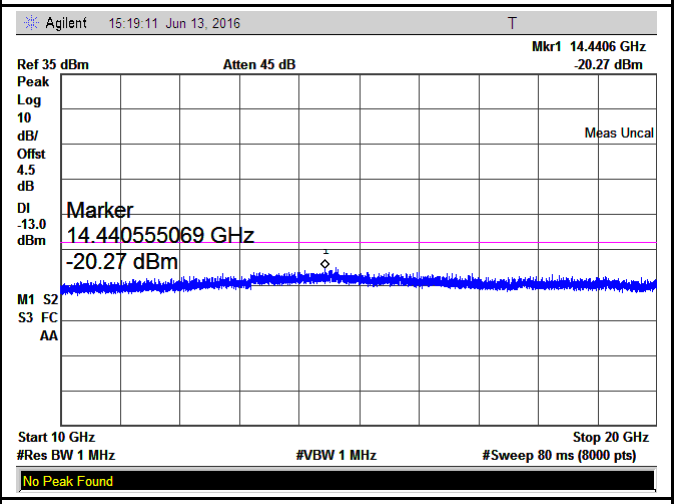
Band IV - Middle Channel-1



Band IV - Middle Channel-2

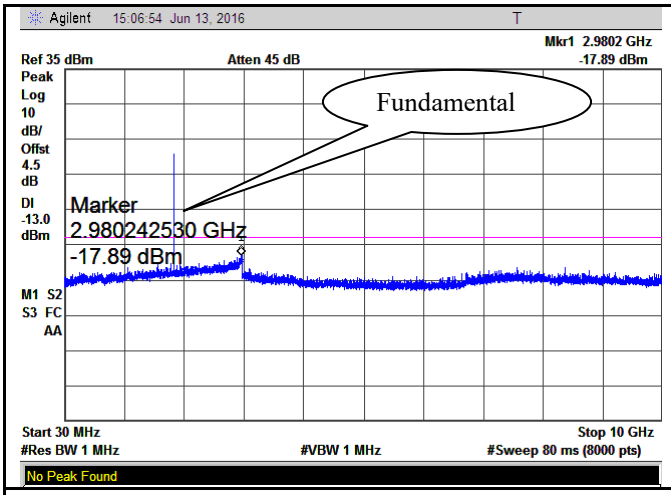


Band IV - High Channel-1

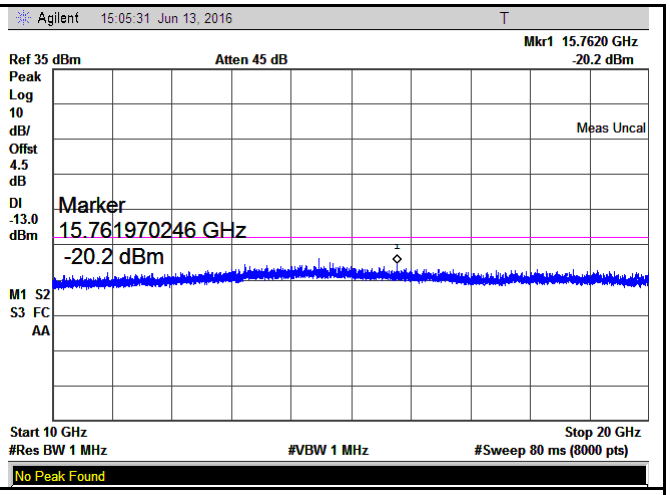


Band IV - High Channel-2

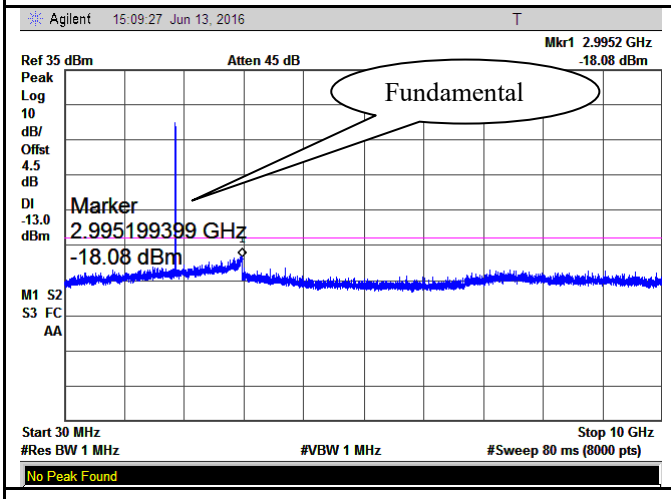
UMTS-FDD Band II (Part 24E)



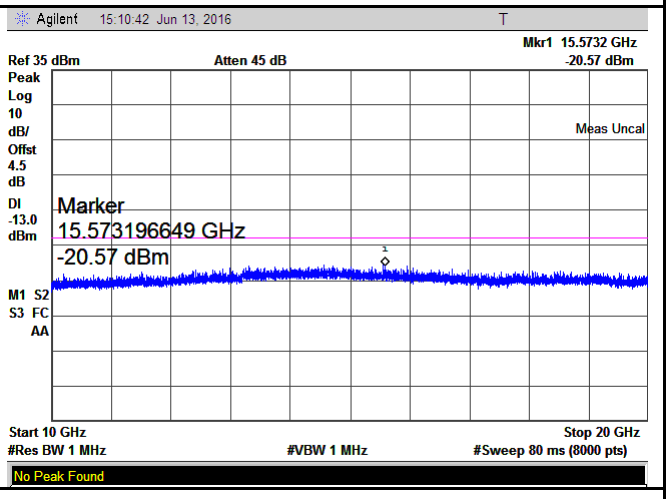
Band II - Low Channel-1



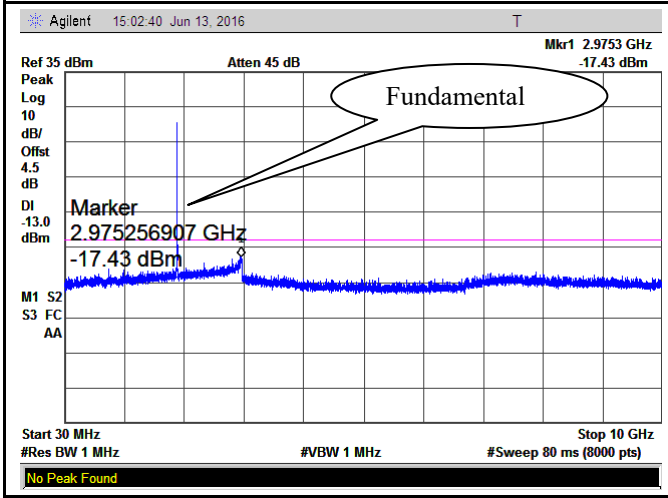
Band II - Low Channel-2



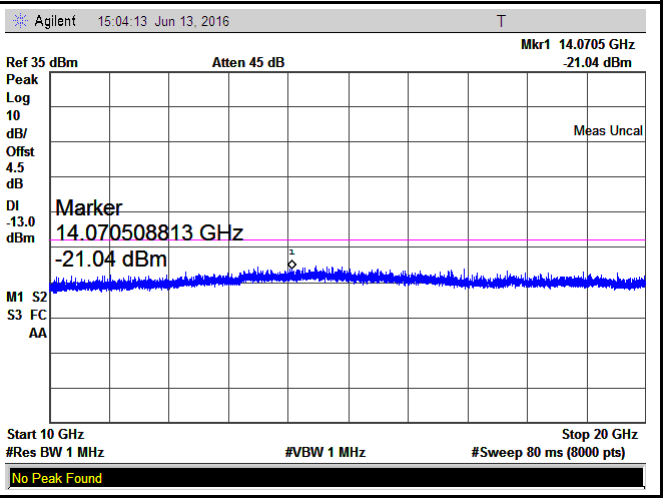
Band II - Middle Channel-1



Band II - Middle Channel-2



Band II - High Channel-1

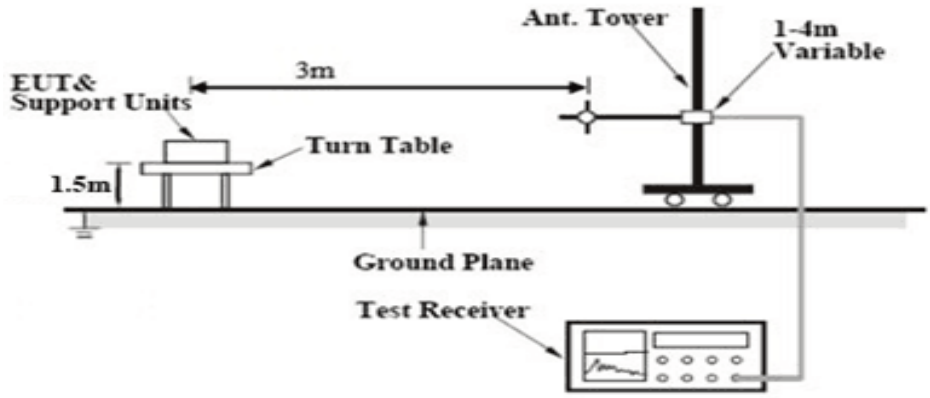


Band II - High Channel-2

6.6 Spurious Radiated Emissions

Temperature	23℃
Relative Humidity	51%
Atmospheric Pressure	1018mbar
Test date :	June 18, 2016
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§2.1053, §22.917 & §24.238 § 27.53(h)	a)	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.	☑
Test setup			
Test Procedure	1. The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable. 2. 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. 3. 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. Sample Calculation: EUT Field Strength = Raw Amplitude (dBμV/m) – Amplifier Gain (dB) + Antenna Factor (dB) + Cable Loss (dB) + Filter Attenuation (dB, if used)		

Remark	
Result	☑ Pass ☐ Fail

Test Data ☑ Yes ☐ N/A

Test Plot ☐ Yes (See below) ☑ N/A

Cellular Band (Part 22H) result

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1648.4	-42.81	V	7.95	0.78	-35.64	-13	-22.64
1648.4	-43.15	H	7.95	0.78	-35.98	-13	-22.98
359.1	-52.19	V	6.4	0.26	-46.05	-13	-33.05
573.6	-52.32	H	6.8	0.37	-45.89	-13	-32.89

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1673.2	-42.76	V	7.95	0.78	-35.59	-13	-22.59
1673.2	-43.02	H	7.95	0.78	-35.85	-13	-22.85
358.7	-52.27	V	6.4	0.26	-46.13	-13	-33.13
573.4	-52.14	H	6.8	0.37	-45.71	-13	-32.71

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1697.6	-42.58	V	7.95	0.78	-35.41	-13	-22.41
1697.6	-42.81	H	7.95	0.78	-35.64	-13	-22.64
358.3	-52.73	V	6.4	0.26	-46.59	-13	-33.59
573.1	-52.09	H	6.8	0.37	-45.66	-13	-32.66

Note:

*1, The testing has been conformed to 10*848.8MHz=8,488MHz*
2, All other emissions more than 30 dB below the limit
3,GSM voice , GPRS and EGPRS mode were investingated. The results above show only the worse cases
4, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.

PCS Band (Part24E) result

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3700.4	-45.18	V	10.25	2.73	-37.66	-13	-24.66
3700.4	-45.34	H	10.25	2.73	-37.82	-13	-24.82
359.5	-52.19	V	6.4	0.26	-46.05	-13	-33.05
574.8	-52.31	H	6.8	0.37	-45.88	-13	-32.88

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3760	-45.27	V	10.25	2.73	-37.75	-13	-24.75
3760	-45.13	H	10.25	2.73	-37.61	-13	-24.61
359.3	-52.41	V	6.4	0.26	-46.27	-13	-33.27
574.2	-52.25	H	6.8	0.37	-45.82	-13	-32.82

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3819.6	-45.63	V	10.36	2.73	-38	-13	-25
3819.6	-45.28	H	10.36	2.73	-37.65	-13	-24.65
359.8	-52.36	V	6.4	0.26	-46.22	-13	-33.22
574.3	-52.11	H	6.8	0.37	-45.68	-13	-32.68

Note:

*1, The testing has been conformed to 10*1909.8MHz=19,098MHz*
2, All other emissions more than 30 dB below the limit
3,GSM voice , GPRS and EGPRS mode were investingated. The results above show only the worse cases
4, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.

UMTS-FDD Band V (Part 22H)

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1652.8	-47.18	V	7.95	0.78	-40.01	-13	-27.01
1652.8	-46.83	H	7.95	0.78	-39.66	-13	-26.66
358.3	-53.61	V	6.4	0.26	-47.47	-13	-34.47
572.7	-53.49	H	6.8	0.37	-47.06	-13	-34.06

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1670	-47.25	V	7.95	0.78	-40.08	-13	-27.08
1670	-46.51	H	7.95	0.78	-39.34	-13	-26.34
358.6	-53.73	V	6.4	0.26	-47.59	-13	-34.59
572.1	-53.86	H	6.8	0.37	-47.43	-13	-34.43

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1693.2	-47.38	V	7.95	0.78	-40.21	-13	-27.21
1693.2	-46.82	H	7.95	0.78	-39.65	-13	-26.65
358.9	-53.59	V	6.4	0.26	-47.45	-13	-34.45
572.4	-53.34	H	6.8	0.37	-46.91	-13	-33.91

Note:

*1, The testing has been conformed to 10*846.6MHz=8,466MHz*
2, All other emissions more than 30 dB below the limit
3,RMC , HSUPA and HSDPA mode were investingated. The results above show only the worse cases
4, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.

UMTS-FDD Band II (Part 24E)

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3704.8	-48.63	V	10.25	2.73	-41.11	-13	-28.11
3704.8	-49.17	H	10.25	2.73	-41.65	-13	-28.65
358.3	-53.22	V	6.4	0.26	-47.08	-13	-34.08
572.7	-53.68	H	6.8	0.37	-47.25	-13	-34.25

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3760	-48.71	V	10.25	2.73	-41.19	-13	-28.19
3760	-49.25	H	10.25	2.73	-41.73	-13	-28.73
358.6	-53.17	V	6.4	0.26	-47.03	-13	-34.03
572.1	-53.93	H	6.8	0.37	-47.5	-13	-34.5

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3815.2	-48.59	V	10.36	2.73	-40.96	-13	-27.96
3815.2	-48.73	H	10.36	2.73	-41.1	-13	-28.1
358.7	-53.34	V	6.4	0.26	-47.2	-13	-34.2
572.3	-53.61	H	6.8	0.37	-47.18	-13	-34.18

Note:

*1, The testing has been conformed to 10*1907.6MHz=19,076MHz*
2, All other emissions more than 30 dB below the limit
3,RMC , HSUPA and HSDPA mode were investingated. The results above show only the worse cases
4, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case

UMTS-FDD Band IV (Part 27E)

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3424.8	-46.81	V	10.07	2.52	-39.26	-13	-26.26
3424.8	-47.25	H	10.07	2.52	-39.7	-13	-26.7
278.3	-52.18	V	6.4	0.26	-46.04	-13	-33.04
713.4	-52.64	H	7.1	0.42	-45.96	-13	-32.96

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3480	-46.59	V	10.09	2.52	-39.02	-13	-26.02
3480	-47.04	H	10.09	2.52	-39.47	-13	-26.47
278.9	-52.31	V	6.4	0.26	-46.17	-13	-33.17
713.5	-53.16	H	7.1	0.42	-46.48	-13	-33.48

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3505.2	-46.42	V	10.09	2.52	-38.85	-13	-25.85
3505.2	-46.96	H	10.09	2.52	-39.39	-13	-26.39
278.8	-52.31	V	6.4	0.26	-46.17	-13	-33.17
713.4	-52.98	H	7.1	0.42	-46.3	-13	-33.3

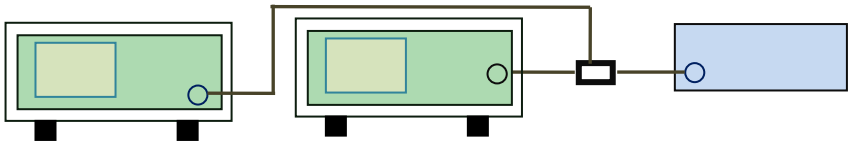
Note:

*1, The testing has been conformed to 10*1712.4MHz=17,124MHz*
2, All other emissions more than 30 dB below the limit
3,RMC , HSUPA and HSDPA mode were investingated. The results above show only the worse cases
4, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case

6.7 Band Edge

Temperature	22℃
Relative Humidity	55%
Atmospheric Pressure	1013mbar
Test date :	June 12 & June 13, 2016
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§22.917(a) §24.238(a) § 27.53(h)	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.	☑
Test setup			
Procedure	- 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	☑ Pass ☐ Fail		

Test Data ☑ Yes ☐ N/A

Test Plot ☑ Yes (See below) ☐ N/A

GSM Voice:

Cellular Band (Part 22H) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.9875	-16.26	-13
849.0225	-16.51	-13

PCS Band (Part24E) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.9900	-17.54	-13
1910.0225	-17.56	-13

GPRS:

Cellular Band (Part 22H) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.9750	-16.55	-13
849.0050	-15.82	-13

PCS Band (Part24E) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.9775	-15.74	-13
1910.0025	-17.29	-13

EGPRS (MCS5):

Cellular Band (Part 22H) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.9975	-15.28	-13
849.0200	-15.90	-13

PCS Band (Part24E) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.9800	-16.48	-13
1910.0050	-15.93	-13

RMC:

UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.750	-30.91	-13
849.050	-28.00	-13

UMTS-FDD Band IV (Part 27)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1708.900	-28.23	-13
1755.925	-28.15	-13

UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.900	-22.11	-13
1910.850	-15.14	-13

HSUPA:

UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.725	-31.51	-13
849.075	-27.53	-13

UMTS-FDD Band IV (Part 27)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1709.125	-28.07	-13
1756.100	-27.67	-13

UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.950	-27.72	-13
1910.750	-14.63	-13

HSDPA:

UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.675	-30.86	-13
850.125	-28.33	-13

UMTS-FDD Band IV (Part 27)

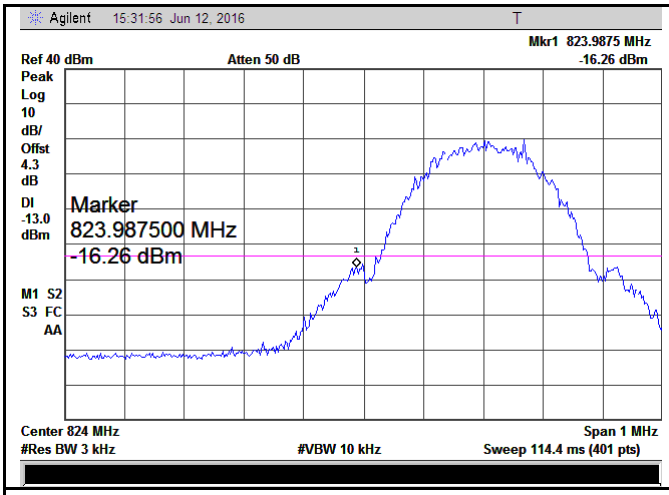
Frequency (MHz)	Emission (dBm)	Limit (dBm)
1709.1750	-27.99	-13
1755.850	-27.80	-13

UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.950	-24.16	-13
1910.750	-17.72	-13

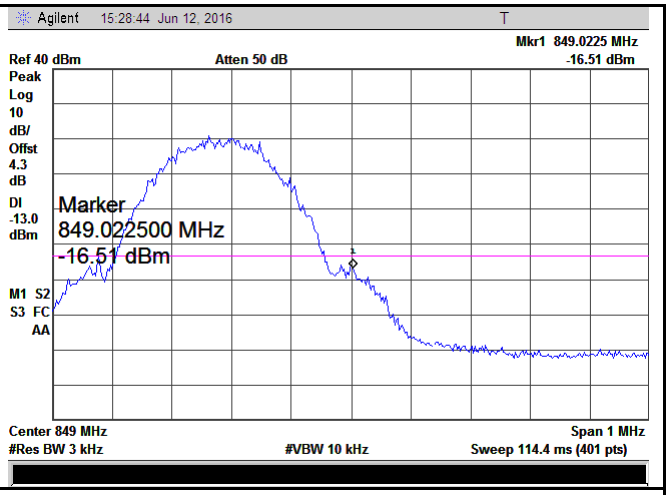
GSM Voice:

Test Plots



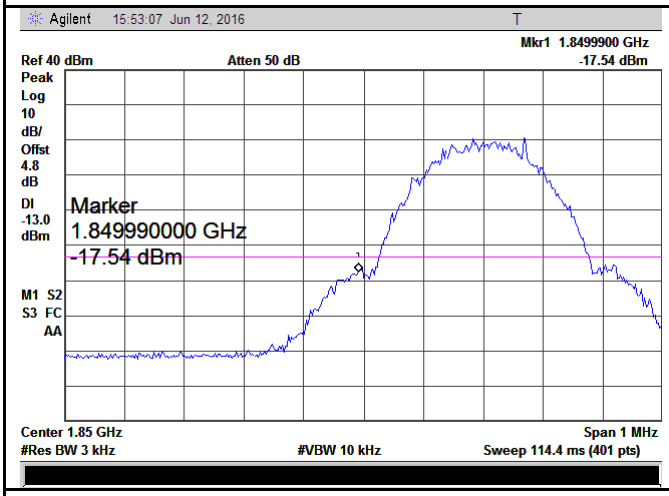
Cellular Band - Low Channel

Note: Offset=Cable loss (4.0) + 10log (3.213)=4.0+0.3=4.3dB



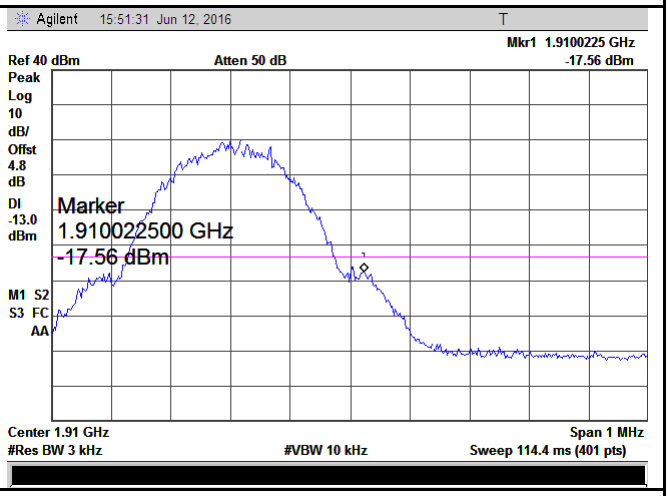
Cellular Band - High Channel

Note: Offset=Cable loss (4.0) + 10log (3.20/3)=4.0+0.3=4.3dB



PCS Band - Low Channel

Note: Offset=Cable loss (4.0) + 10log (3.23/3)=4.5+0.3=4.8dB

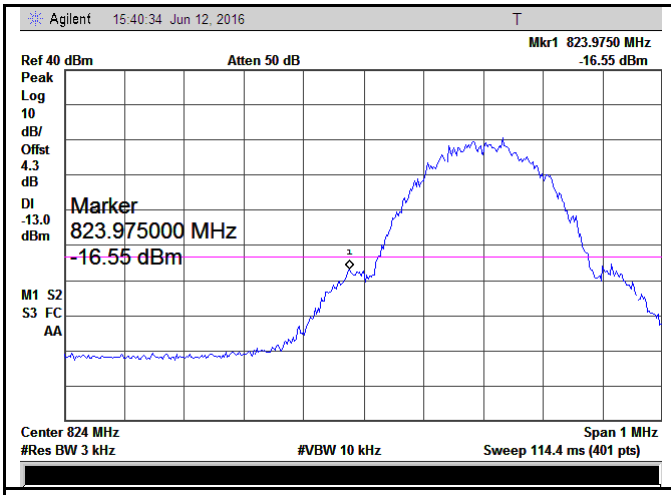


PCS Band - High Channel

Note: Offset=Cable loss (4.0) + 10log (3.23/3)=4.5+0.3=4.8dB

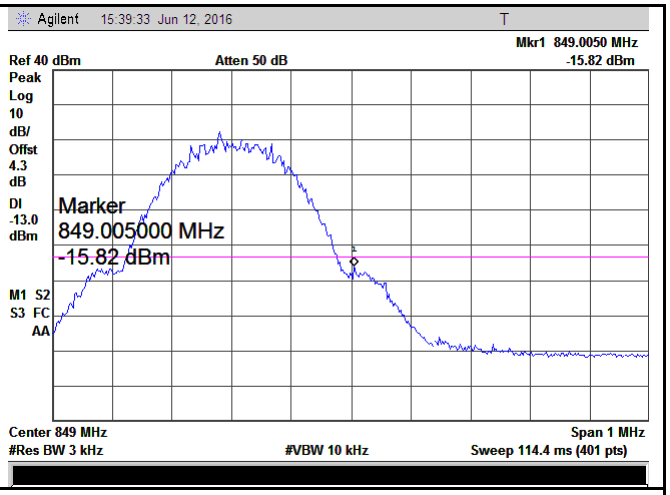
GPRS:

Test Plots



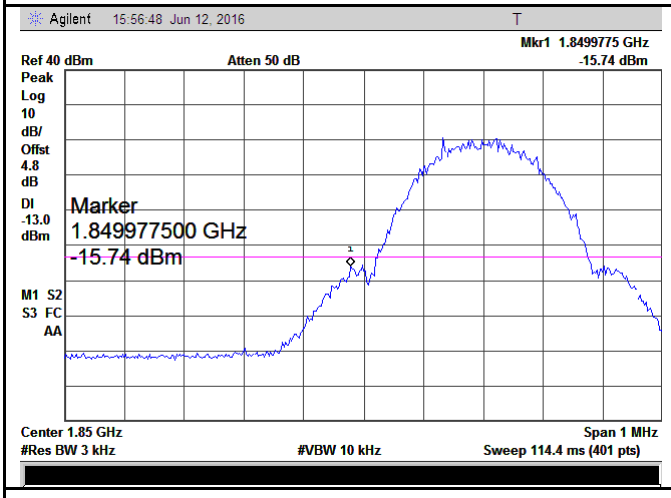
Cellular Band - Low Channel

Note: Offset=Cable loss (4.0) + 10log (3.19/3)=4.0+0.3=4.3dB



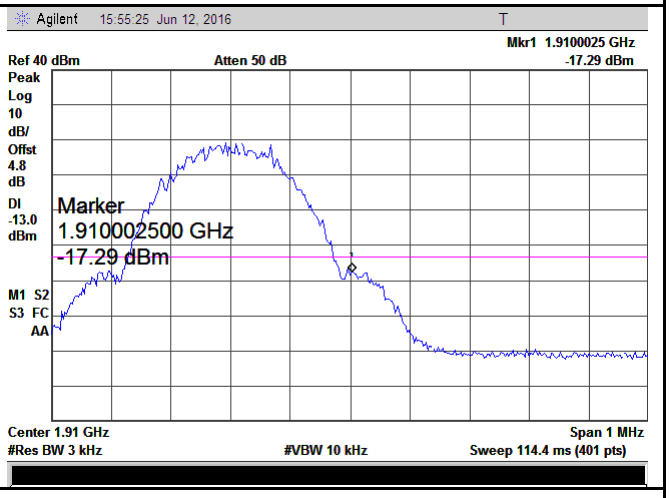
Cellular Band - High Channel

Note: Offset=Cable loss (4.0) + 10log (3.20/3)=4.0+0.3=4.3dB



PCS Band - Low Channel

Note: Offset=Cable loss (4.5) + 10log (3.20/3)=4.5+0.3=4.8dB

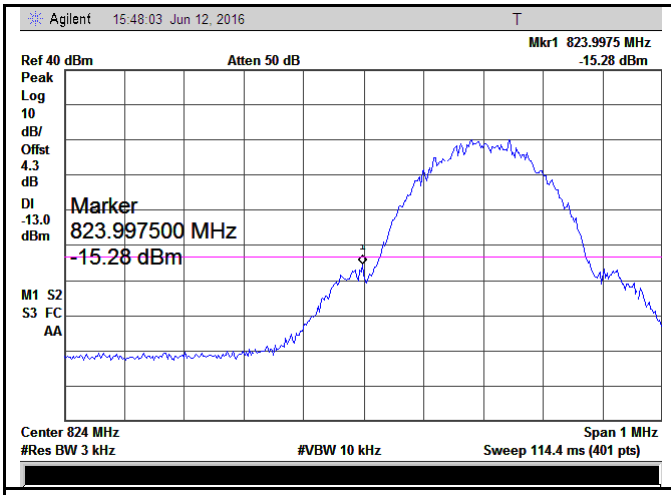


PCS Band - High Channel

Note: Offset=Cable loss (4.5) + 10log (3.20/3)=4.5+0.3=4.8dB

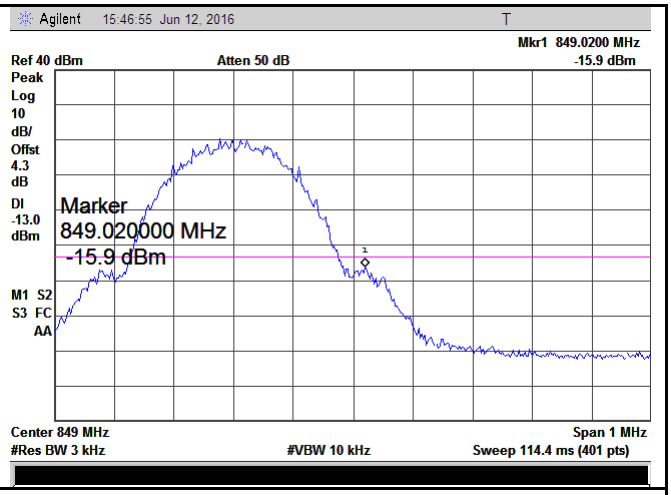
EGPRS (MCS1):

Test Plots



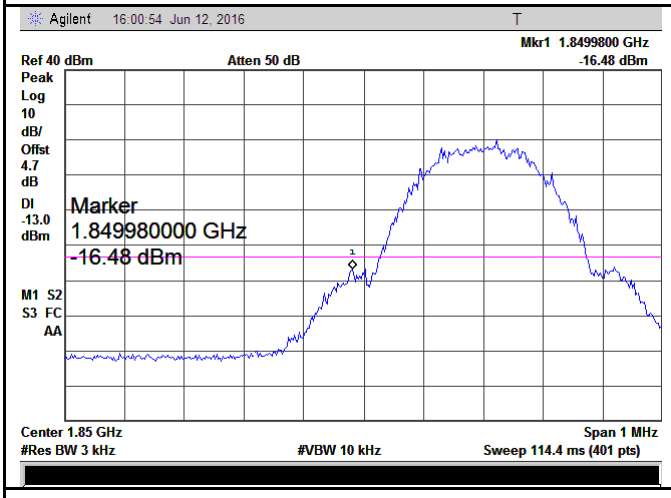
Cellular Band - Low Channel

Note: Offset=Cable loss (4.0) + 10log (3.19/3)=4.0+0.3=4.3dB



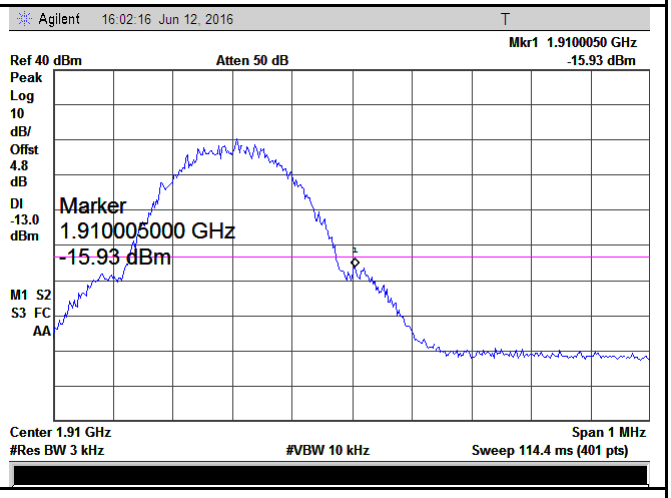
Cellular Band - High Channel

Note: Offset=Cable loss (4.0) + 10log (3.18/3)=4.0+0.3=4.3dB



PCS Band - Low Channel

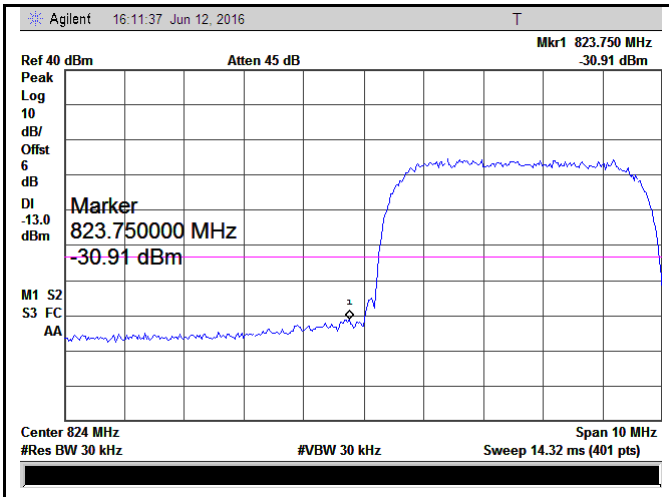
Note: Offset=Cable loss (4.5) + 10log (3.15/3)=4.5+0.2=4.7dB



PCS Band - High Channel

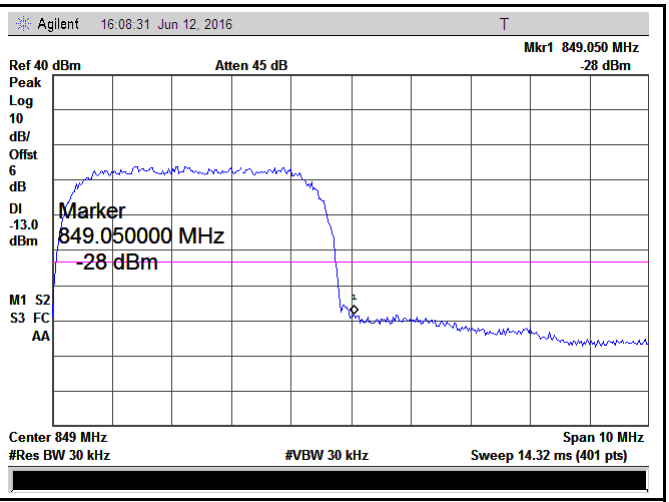
Note: Offset=Cable loss (4.5) + 10log (3.22/3)=4.5+0.3=4.8dB

RMC:



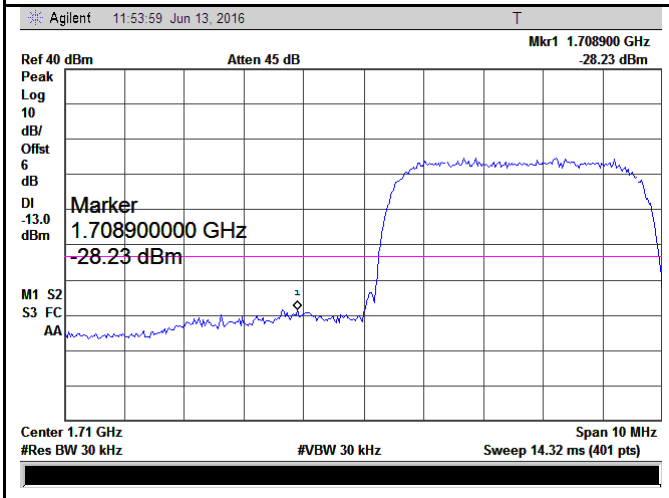
UMTS-FDD Band V - Low Channel

Note: Offset=Cable loss (4.0) + 10log (47.02/30)=4.0+2.0=6.0dB



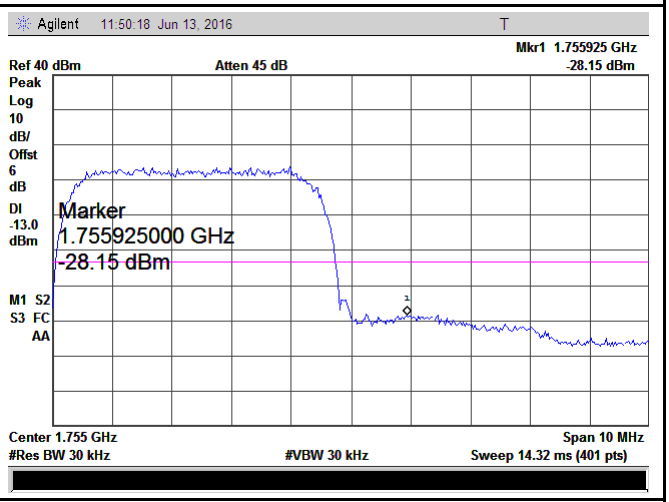
UMTS-FDD Band V - High Channel

Note: Offset=Cable loss (4.0) + 10log (47.07/30)=4.0+2.0=6.0dB



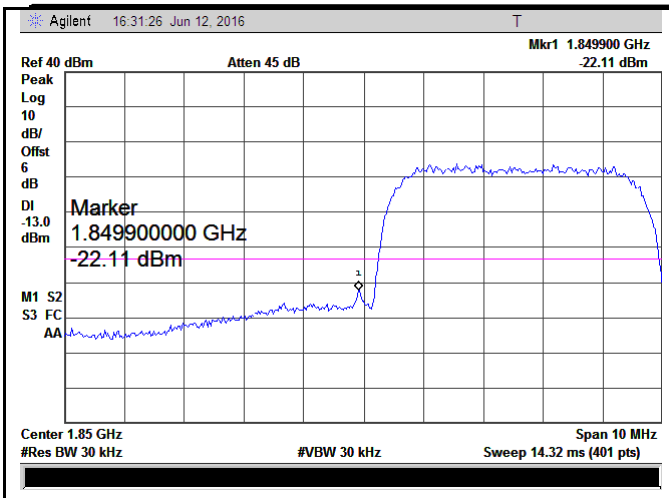
UMTS-FDD Band IV - Low Channel

Note: Offset=Cable loss (4.5) + 10log (47.21/30)=4.0+2.0=6.0dB



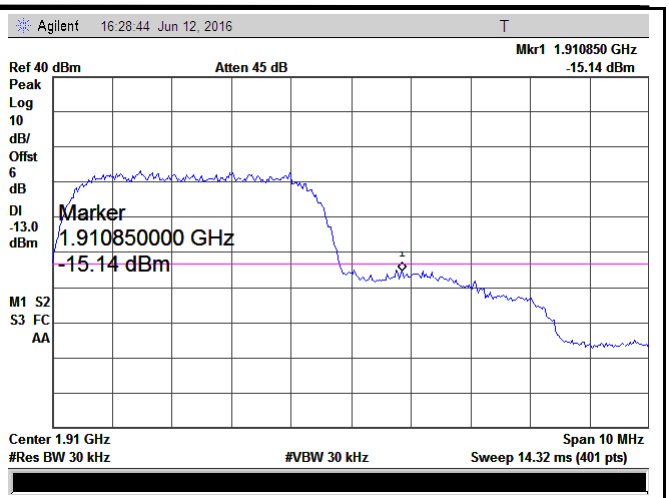
UMTS-FDD Band IV - High Channel

Note: Offset=Cable loss (4.5) + 10log (46.99/30)=4.0+2.0=6.0dB



UMTS-FDD Band II - Low Channel

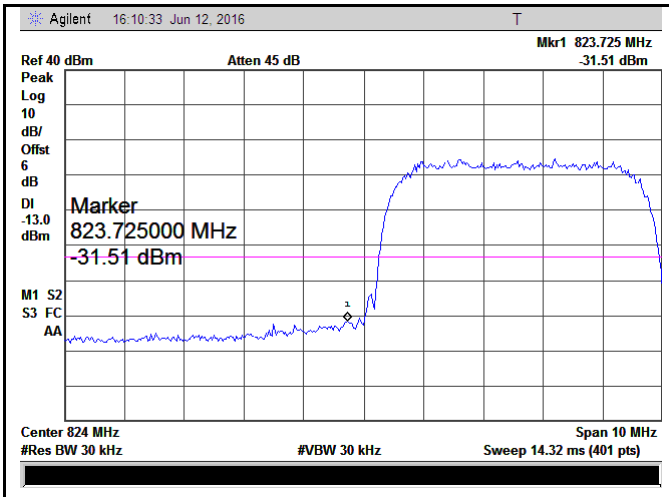
Note: Offset=Cable loss (4.5) + 10log (47.00/30)4.0+2.0=6.0dB



UMTS-FDD Band II - High Channel

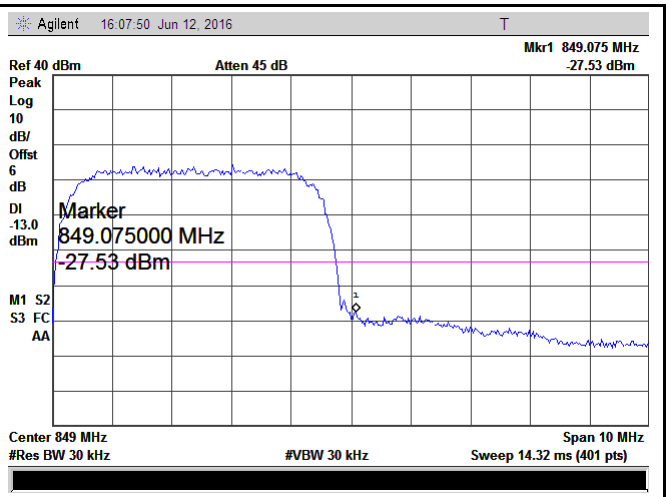
Note: Offset=Cable loss (4.5) + 10log (48.05/30)=4.0+2.0=6.0dB

HSUPA:



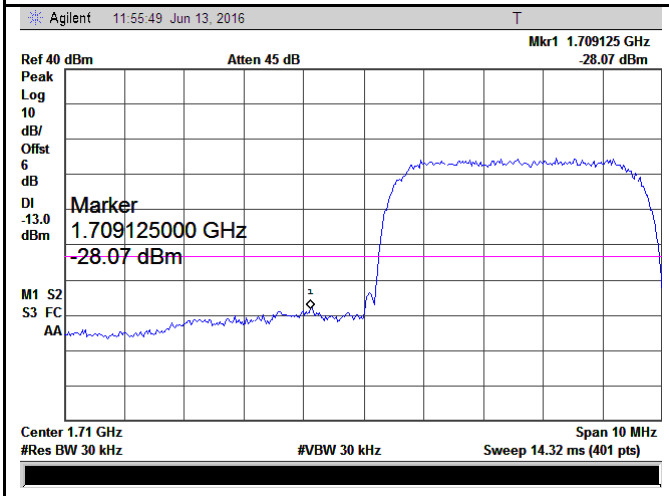
UMTS-FDD Band V - Low Channel

Note: Offset=Cable loss (4.0) + 10log (46.99/30)=4.0+2.0=6.0dB



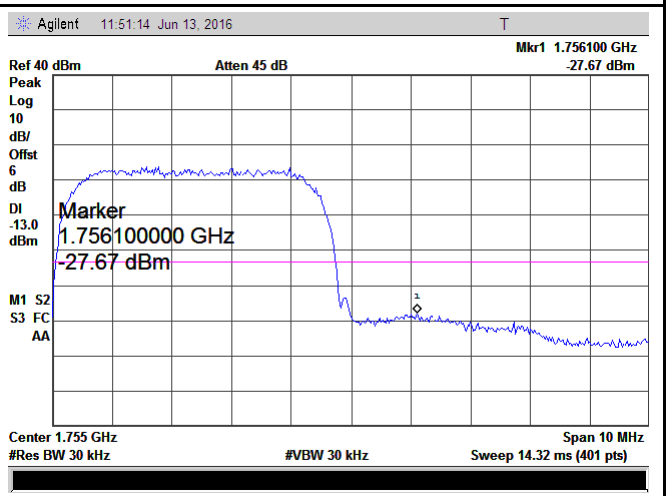
UMTS-FDD Band V - High Channel

Note: Offset=Cable loss (4.0) + 10log (47.00/30)=4.0+2.0=6.0dB



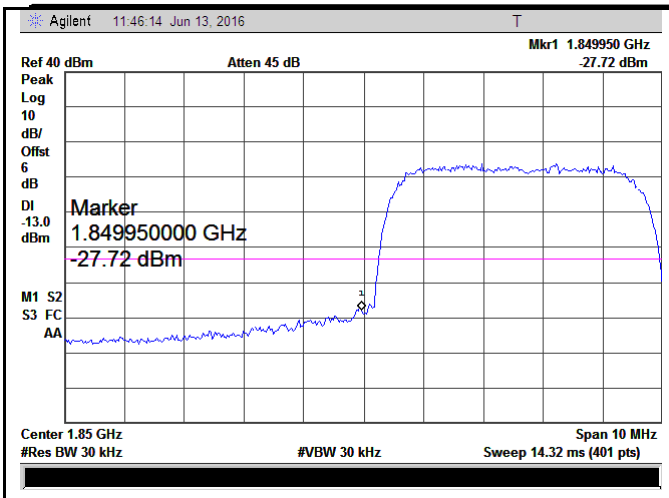
UMTS-FDD Band IV - Low Channel

Note: Offset=Cable loss (4.5) + 10log (47.23/30)=4.0+2.0=6.0dB



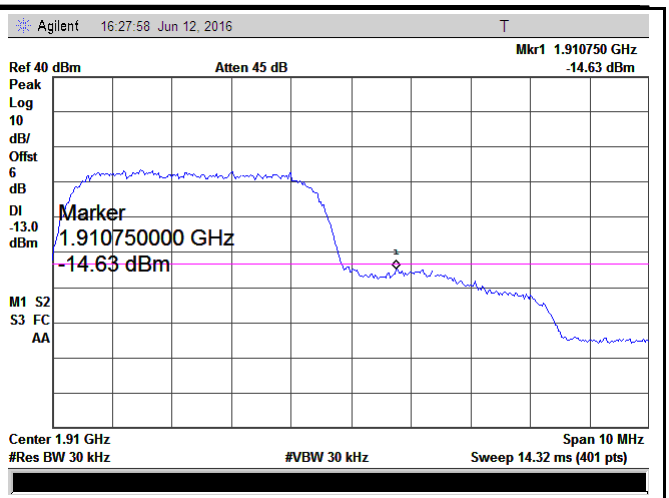
UMTS-FDD Band IV - High Channel

Note: Offset=Cable loss (4.5) + 10log (47.05/30)=4.0+2.0=6.0dB



UMTS-FDD Band II - Low Channel

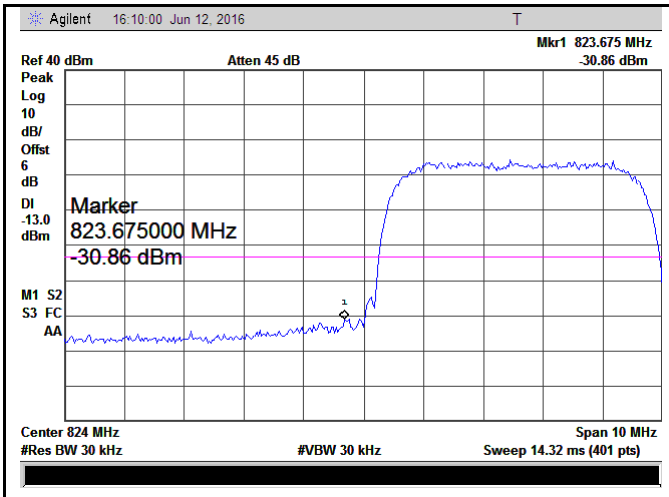
Note: Offset=Cable loss (4.5) + 10log (47.35/30)=4.0+2.0=6.0dB



UMTS-FDD Band II - High Channel

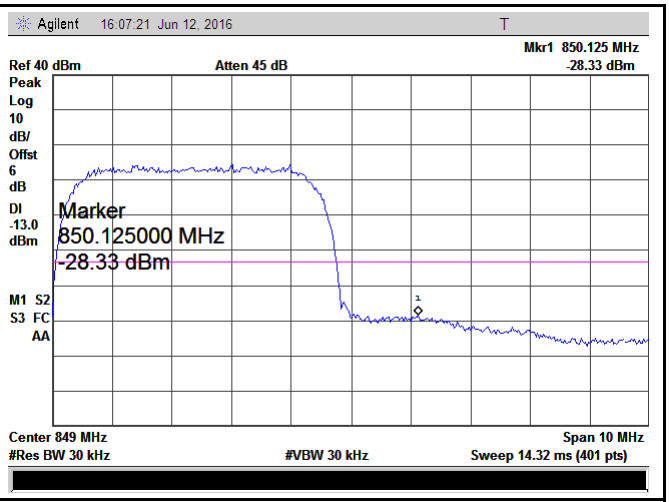
Note: Offset=Cable loss (4.5) + 10log (48.40/30)=4.0+2.0=6.0dB

HSDPA:



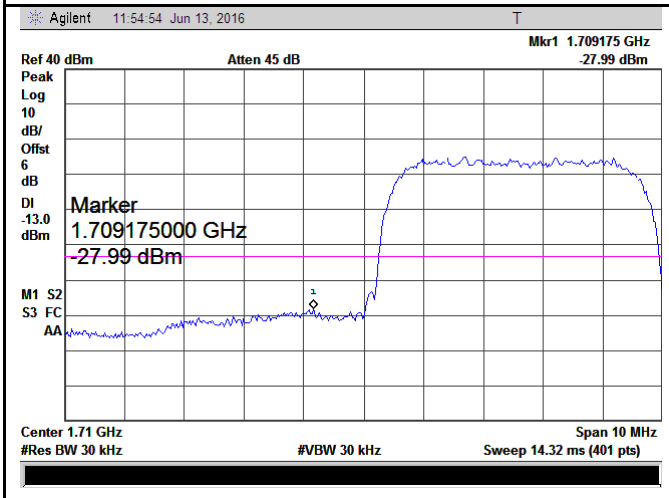
UMTS-FDD Band V - Low Channel

Note: Offset=Cable loss (4.0) + 10log (47.08/30)=4.0+2.0=6.0dB



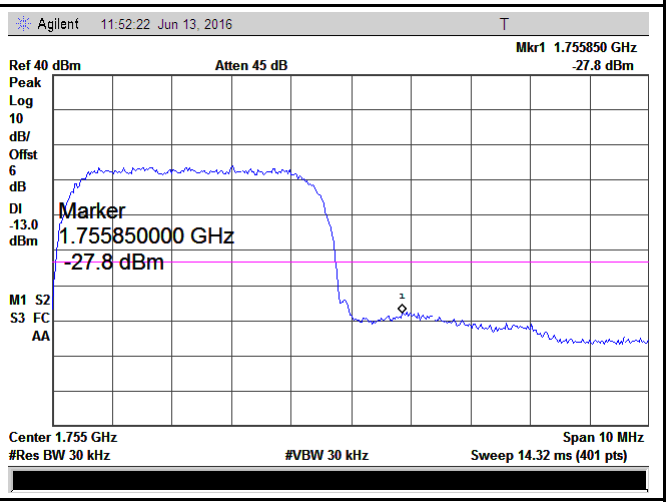
UMTS-FDD Band V - High Channel

Note: Offset=Cable loss (4.0) + 10log (46.95/30)=4.0+2.0=6.0dB



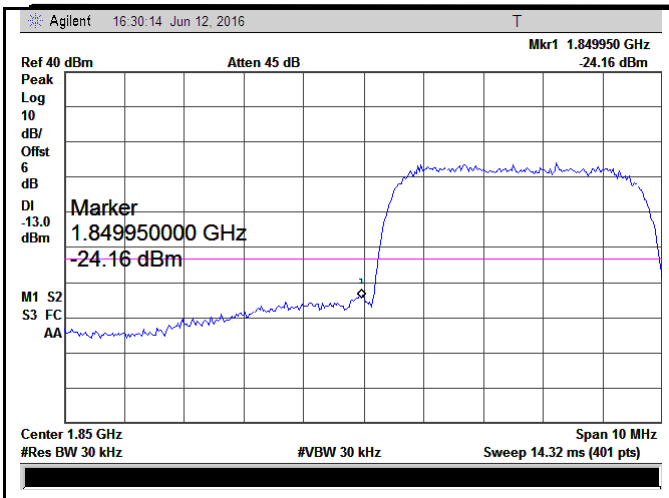
UMTS-FDD Band IV - Low Channel

Note: Offset=Cable loss (4.5) + 10log (47.13/30)=4.0+2.0=6.0dB



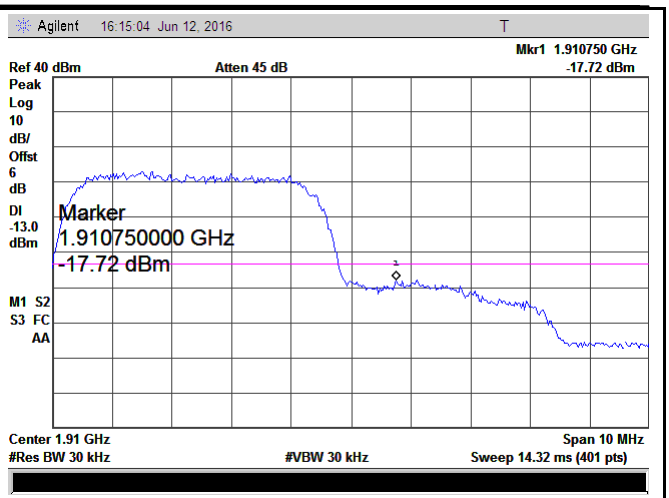
UMTS-FDD Band IV - High Channel

Note: Offset=Cable loss (4.5) + 10log (47.10/30)=4.0+2.0=6.0dB



UMTS-FDD Band II - Low Channel

Note: Offset=Cable loss (4.5) + 10log (47.47/30)=4.0+2.0=6.0dB



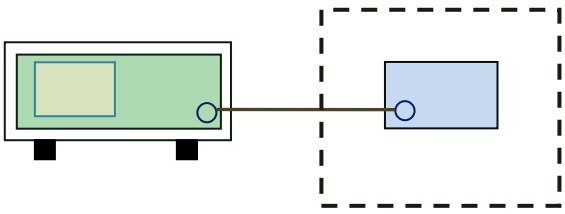
UMTS-FDD Band II - High Channel

Note: Offset=Cable loss (4.5) + 10log (47.63/30)=4.0+2.0=6.0dB

6.8 Frequency Stability

Temperature	23℃
Relative Humidity	51%
Atmospheric Pressure	1018mbar
Test date :	June 18, 2016
Tested By :	Loren Luo

Requirement(s):

<table>
<tr><th>Spec</th><th>Item</th><th>Requirement</th><th>Applicable</th></tr>
<tr><td>§2.1055, §22.355 & §24.235 § 27.5(h); § 27.54</td><td>a)</td><td>According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:
Frequency Tolerance for Transmitters in the Public Mobile Services
<table>
<tr><th>Frequency Range (MHz)</th><th>Base, fixed (ppm)</th><th>Mobile ≤ 3 watts (ppm)</th><th>Mobile ≤ 3 watts (ppm)</th></tr>
<tr><td>25 to 50</td><td>20.0</td><td>20.0</td><td>50.0</td></tr>
<tr><td>50 to 450</td><td>5.0</td><td>5.0</td><td>50.0</td></tr>
<tr><td>45 to 512</td><td>2.5</td><td>5.0</td><td>.0</td></tr>
<tr><td>821 to 896</td><td>1.5</td><td>2.5</td><td>2.5</td></tr>
<tr><td>928 to 29.</td><td>5.0</td><td>N/A</td><td>N/A</td></tr>
<tr><td>929 to 960.</td><td>1.5</td><td>N/A</td><td>N/A</td></tr>
<tr><td>2110 to 2220</td><td>10.0</td><td>N/A</td><td>N/A</td></tr>
</table>
According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized frequency block.</td><td>☑</td></tr>
<tr><td>Test setup</td><td colspan="3">  </td></tr>
</table>

Procedure	A communication link was established between EUT and base station. The frequency error was monitored and measured by base station under variation of ambient temperature and variation of primary supply voltage. Limit: The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.
Remark	
Result	☑ Pass ☐ Fail

Test Data ☑ Yes ☐ N/A

Test Plot ☐ Yes (See below) ☑ N/A

GSM Voice:

Cellular Band (Part 22H) result

Middle Channel, f_o = 836.6 MHz				
Temperature (℃)	Power Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	21	0.0251	2.5
0		16	0.0191	2.5
10		17	0.0203	2.5
20		15	0.0179	2.5
30		12	0.0143	2.5
40		18	0.0215	2.5
50		19	0.0227	2.5
55		20	0.0239	2.5
25	4.2	22	0.0263	2.5
	3.5	19	0.0227	2.5

PCS Band (Part 24E) result

Middle Channel, f_o = 1880 MHz				
Temperature (℃)	Power Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	11	0.0059	2.5
0		14	0.0074	2.5
10		13	0.0069	2.5
20		12	0.0064	2.5
30		16	0.0085	2.5
40		15	0.0080	2.5
50		13	0.0069	2.5
55		17	0.0090	2.5
25	4.2	15	0.0080	2.5
	3.5	19	0.0101	2.5

GPRS:

Cellular Band (Part 22H) result

Middle Channel, f_o = 836.6 MHz				
Temperature (℃)	Power Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	20	0.0239	2.5
0		18	0.0215	2.5
10		15	0.0179	2.5
20		12	0.0143	2.5
30		13	0.0155	2.5
40		15	0.0179	2.5
50		14	0.0167	2.5
55		21	0.0251	2.5
25	4.2	19	0.0227	2.5
	3.5	21	0.0251	2.5

PCS Band (Part 24E) result

Middle Channel, f_o = 1880 MHz				
Temperature (℃)	Power Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	17	0.0090	2.5
0		16	0.0085	2.5
10		13	0.0069	2.5
20		12	0.0064	2.5
30		13	0.0069	2.5
40		18	0.0096	2.5
50		14	0.0074	2.5
55		15	0.0080	2.5
25	4.2	20	0.0106	2.5
	3.5	21	0.0112	2.5

EGPRS (MCS1):

Cellular Band (Part 22H) result

Middle Channel, f_o = 836.6 MHz				
Temperature (℃)	Power Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	20	0.0239	2.5
0		14	0.0167	2.5
10		16	0.0191	2.5
20		13	0.0155	2.5
30		13	0.0155	2.5
40		16	0.0191	2.5
50		20	0.0239	2.5
55		19	0.0227	2.5
25	4.2	18	0.0215	2.5
	3.5	14	0.0167	2.5

PCS Band (Part 24E) result

Middle Channel, f_o = 1880 MHz				
Temperature (℃)	Power Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	22	0.0117	2.5
0		19	0.0101	2.5
10		18	0.0096	2.5
20		10	0.0053	2.5
30		16	0.0085	2.5
40		14	0.0074	2.5
50		12	0.0064	2.5
55		20	0.0106	2.5
25	4.2	19	0.0101	2.5
	3.5	15	0.0080	2.5

RMC:

UMTS-FDD Band V (Part 22H)

Middle Channel, f_o = 835 MHz				
Temperature (℃)	Power Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	16	0.0192	2.5
0		14	0.0168	2.5
10		13	0.0156	2.5
20		16	0.0192	2.5
30		12	0.0144	2.5
40		11	0.0132	2.5
50		16	0.0192	2.5
55		17	0.0204	2.5
25	4.2	12	0.0144	2.5
	3.5	17	0.0204	2.5

UMTS-FDD Band II (Part 24E)

Middle Channel, f_o = 1880 MHz				
Temperature (℃)	Power Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	17	0.0090	2.5
0		12	0.0064	2.5
10		11	0.0059	2.5
20		9	0.0048	2.5
30		12	0.0064	2.5
40		15	0.0080	2.5
50		11	0.0059	2.5
55		13	0.0069	2.5
25	4.2	16	0.0085	2.5
	3.5	17	0.0090	2.5

UMTS-FDD Band IV (Part 27E)

Middle Channel, f_o = 1732.6 MHz				
Temperature (℃)	Power Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	15	0.0180	2.5
0		15	0.0180	2.5
10		14	0.0168	2.5
20		15	0.0180	2.5
30		13	0.0156	2.5
40		12	0.0144	2.5
50		15	0.0180	2.5
55		16	0.0192	2.5
25	4.2	11	0.0132	2.5
	3.5	16	0.0192	2.5

HSUPA:

UMTS-FDD Band V (Part 22H)

Middle Channel, f_o = 835 MHz				
Temperature (℃)	Power Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	16	0.0192	2.5
0		14	0.0168	2.5
10		13	0.0156	2.5
20		15	0.0180	2.5
30		14	0.0168	2.5
40		12	0.0144	2.5
50		18	0.0216	2.5
55		17	0.0204	2.5
25	4.2	20	0.0240	2.5
	3.5	22	0.0263	2.5

UMTS-FDD Band II (Part 24E)

Middle Channel, f_o = 1880 MHz				
Temperature (℃)	Power Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	16	0.0085	2.5
0		15	0.0080	2.5
10		14	0.0074	2.5
20		12	0.0064	2.5
30		16	0.0085	2.5
40		13	0.0069	2.5
50		15	0.0080	2.5
55		17	0.0090	2.5
25	4.2	16	0.0085	2.5
	3.5	19	0.0101	2.5

UMTS-FDD Band IV (Part 27E)

Middle Channel, f_o = 1732.6 MHz				
Temperature (℃)	Power Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	15	0.0180	2.5
0		16	0.0192	2.5
10		12	0.0144	2.5
20		13	0.0156	2.5
30		12	0.0144	2.5
40		13	0.0156	2.5
50		16	0.0192	2.5
55		16	0.0192	2.5
25	4.2	21	0.0251	2.5
	3.5	21	0.0251	2.5

HSDPA:

UMTS-FDD Band V (Part 22H)

Middle Channel, f_o = 835 MHz				
Temperature (℃)	Power Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	19	0.0228	2.5
0		16	0.0192	2.5
10		15	0.0180	2.5
20		12	0.0144	2.5
30		14	0.0168	2.5
40		15	0.0180	2.5
50		13	0.0156	2.5
55		20	0.0240	2.5
25	4.2	19	0.0228	2.5
	3.5	21	0.0251	2.5

UMTS-FDD Band II (Part 24E)

Middle Channel, f_o = 1880 MHz				
Temperature (℃)	Power Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	20	0.0106	2.5
0		14	0.0074	2.5
10		11	0.0059	2.5
20		9	0.0048	2.5
30		11	0.0059	2.5
40		14	0.0074	2.5
50		16	0.0085	2.5
55		18	0.0096	2.5
25	4.2	13	0.0069	2.5
	3.5	15	0.0080	2.5

UMTS-FDD Band IV (Part 27E)

Middle Channel, f_o = 1732.6 MHz				
Temperature (℃)	Power Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	20	0.0240	2.5
0		15	0.0180	2.5
10		15	0.0180	2.5
20		12	0.0144	2.5
30		13	0.0156	2.5
40		13	0.0156	2.5
50		14	0.0168	2.5
55		21	0.0251	2.5
25	4.2	20	0.0240	2.5
	3.5	20	0.0240	2.5

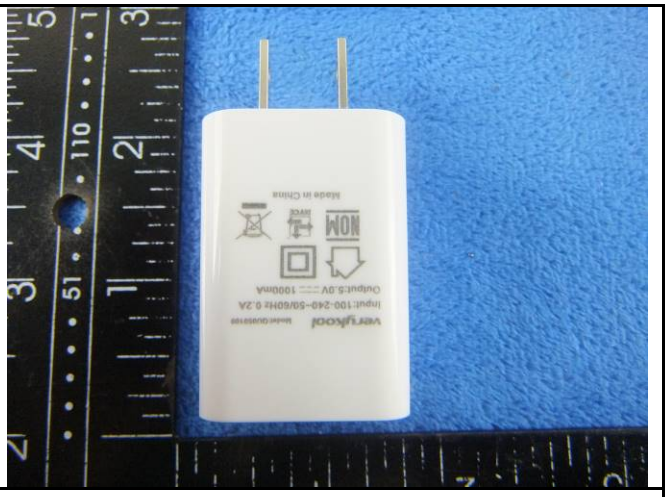
Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
RF Conducted Test					
Agilent ESA-E SERIES SPECTRUM ANALYZER	E4407B	MY45108319	09/16/2015	09/15/2016	☑
Power Splitter	1#	1#	09/01/2015	08/31/2016	☑
Universal Radio Communication Tester	CMU200	121393	09/25/2015	09/24/2016	☑
Temperature/Humidity Chamber	UHL-270	001	10/09/2015	10/08/2016	☑
DC Power Supply	E3640A	MY40004013	09/17/2015	09/16/2016	☑
RF Power Sensor	Dare RPR3006C/P/W	AY554013	09/17/2015	09/16/2016	☑
Radiated Emissions					
EMI test receiver	ESL6	100262	09/17/2015	09/16/2016	☑
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	09/01/2015	08/31/2016	☑
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/24/2016	03/23/2017	☑
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/21/2015	09/20/2016	☑
Bilog Antenna (30MHz~2GHz)	JB1	A112017	09/21/2015	09/20/2016	☑
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71259	09/24/2015	09/23/2016	☑
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/24/2015	09/23/2016	☑
SYNTHESIZED SIGNAL GENERATOR	8665B	3744A01293	09/17/2015	09/16/2016	☑
Power Amplifier	SMC150D	R1553-0313	03/09/2016	03/08/2017	☑
Power Amplifier	S41-25D	R1553-0314	05/27/2016	05/26/2017	☑
Tunable Notch Filter	3NF-800/1000-S	AA4	09/01/2015	08/31/2016	☑

Tunable Notch Filter	3NF-1000/2000-S	AM 4	09/01/2015	08/31/2016	☑

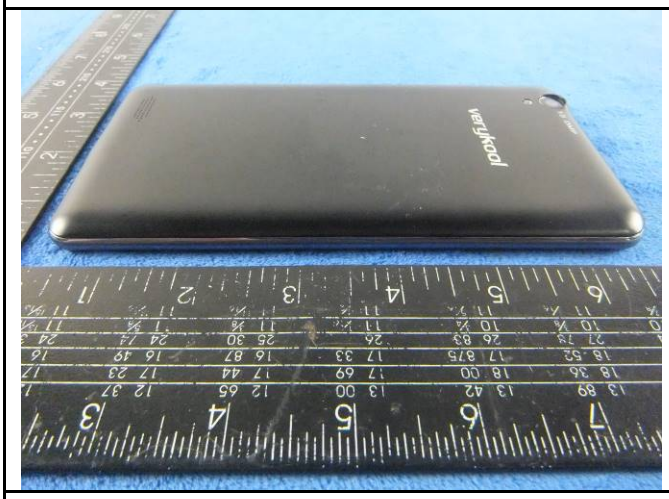
Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo

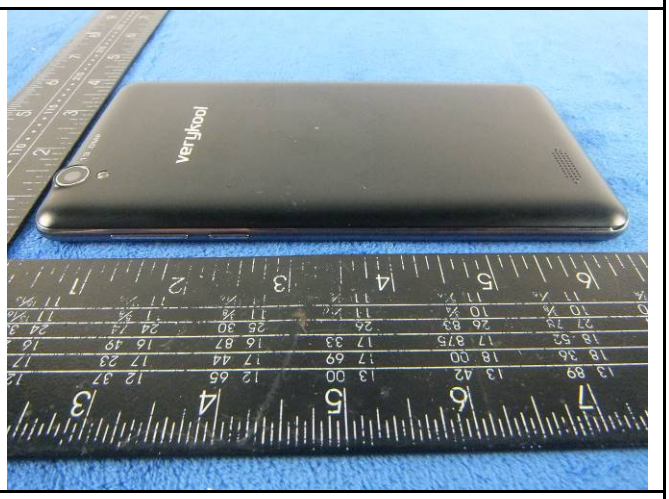
	
Whole Package View	Adapter - Front View
	
EUT - Front View	EUT - Rear View

EUT - Top View

EUT - Bottom View



EUT - Left View



EUT - Right View

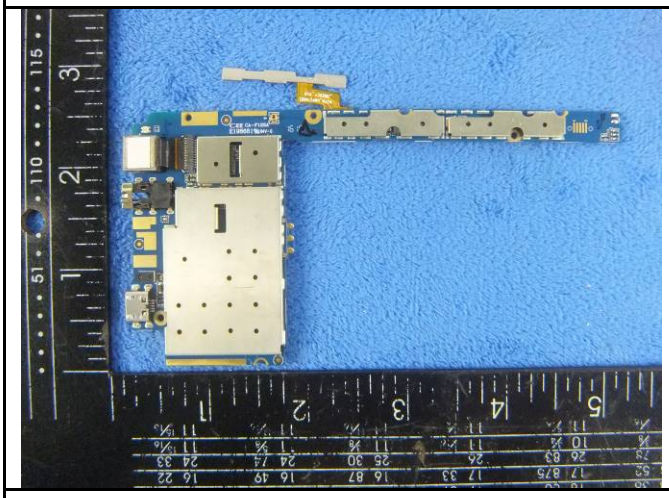
Annex B.ii. Photograph: EUT Internal Photo

Cover Off - Top View 1

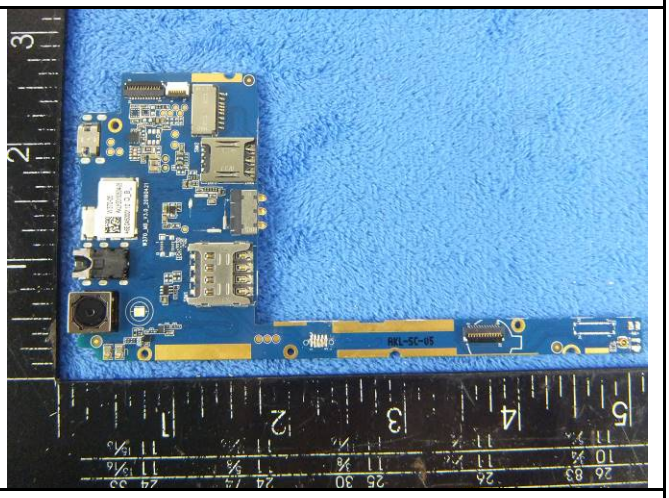
Cover Off - Top View 2

Battery - Front View

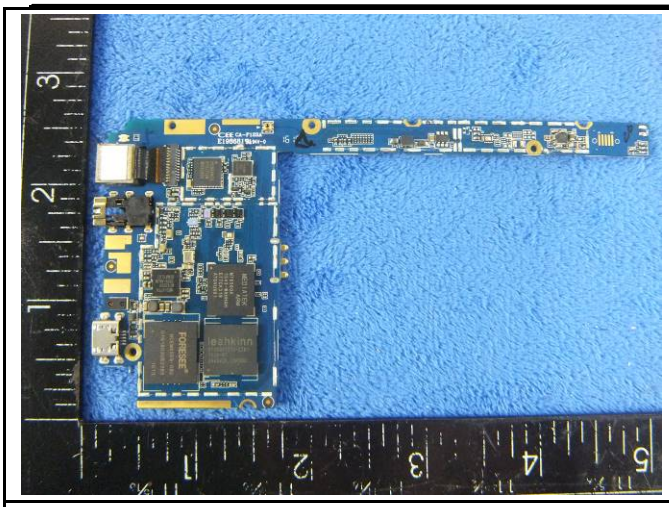
Battery - Rear View



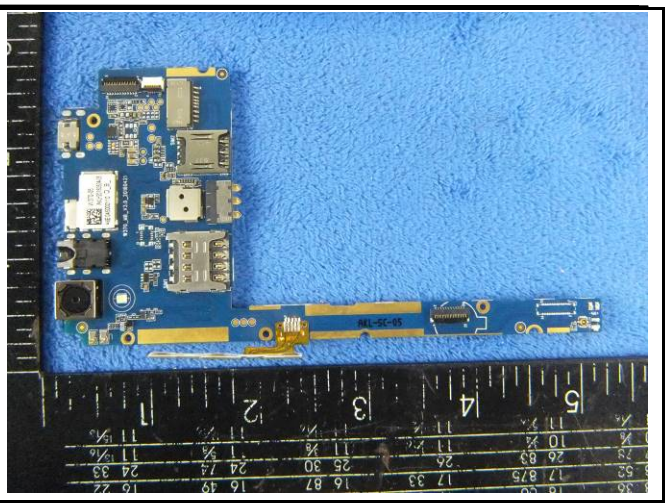
Mainboard with Shielding - Front View



Mainboard with Shielding - Rear View



Mainboard without Shielding - Front View



Mainboard without Shielding – Rear View

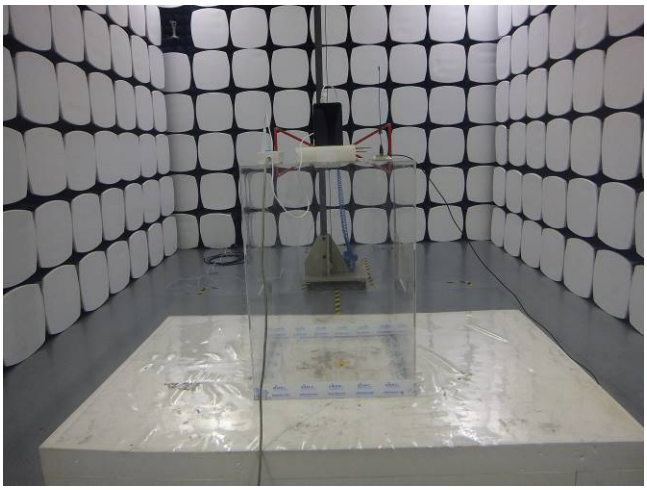
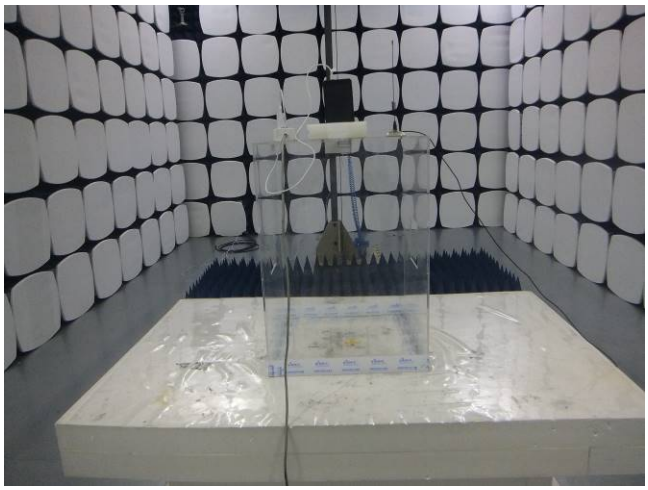
LCD – Front View

LCD – Rear View

GSM/PCS/UMTS-FDD Antenna View

WIFI/BT/BLE/GPS - Antenna View

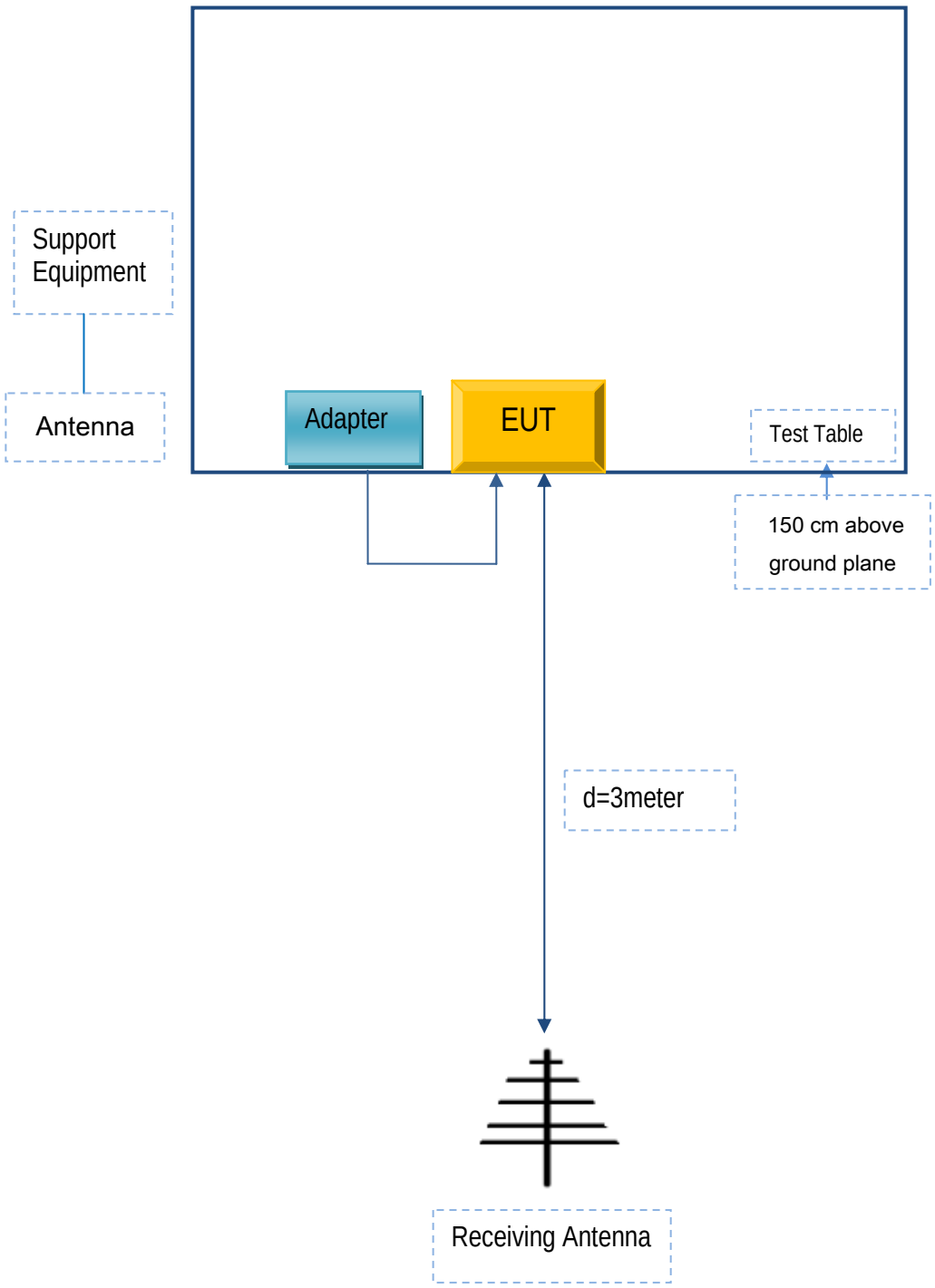
Annex B.iii. Photograph: Test Setup Photo

	
Radiated Spurious Emissions Test Setup Below 1GHz	Radiated Spurious Emissions Test Setup Above 1GHz

Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

Block Configuration Diagram for Radiated Emissions



Annex C. il. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No
Verykool USA Inc	Adapter	QU050100	C014

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	C014

Annex C.ii. EUT OPERATING CONKITIONS

N/A

Annex D. User Manual / Block Diagram / Schematics / Partlist

See attachment

Annex E. DECLARATION OF SIMILARITY

N/A