

RF TEST REPORT



Report No.: 16070293-FCC-R1

Supersede Report No.: N/A

Applicant	Verykool USA Inc	
Product Name	Mobile phone	
Model No.	s5525	
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	April 16 to April 27, 2016	
Issue Date	May 12, 2016	
Test Result	☒ Pass ☐ Fail	
Equipment complied with the specification	☒	
Equipment did not comply with the specification	☐	
<i>Winnie Zhang</i>	<i>David Huang</i>	
Winnie Zhang Test Engineer	David Huang Checked By	
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only		

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

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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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1. Report Revision History

Report No.	Report Version	Description	Issue Date
16070293-FCC-R1	NONE	Original	April 28, 2016
16070293-FCC-R1	V1	Adding note	May 12, 2016

2. Customer information

Applicant Name	Verykool USA Inc
Applicant Add	3636 Nobel Drive, Suite 325, San Diego, California 92122 United States
Manufacturer	Kozen Mobile Co.,Ltd
Manufacturer Add	Floor 3rd, Building 29, No.368 Zhangjiang Road, Pudong District, Shanghai, China 201203

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: s5525

Serial Model: N/A

Date EUT received: April 15, 2016

Test Date(s): April 16 to April 27, 2016

Equipment Category : PCE

Antenna Gain:

- GSM850: -1dBi
- PCS1900: 2.5dBi
- UMTS-FDD Band V: -1dBi
- UMTS-FDD Band IV: 2dBi
- UMTS-FDD Band II: 2.5dBi
- Bluetooth/BLE: 3.5dBi
- WIFI: 3.5dBi
- GPS: 1.5dBi

Type of Modulation:

- GSM / GPRS: GMSK
- UMTS-FDD: QPSK, 16QAM
- 802.11b/g/n: DSSS, OFDM
- Bluetooth: GFSK, π /4DQPSK, 8DPSK
- BLE: GFSK
- GPS: BPSK

RF Operating Frequency (ies):

- GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz
- PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz
- UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz
- UMTS-FDD Band 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 RX:1575.42 MHz

Maximum Conducted
AV Power to Antenna:

GSM850: 32.12 dBm
PCS1900: 28.83 dBm
UMTS-FDD Band V : 22.85 dBm
UMTS-FDD Band II : 21.58 dBm
UMTS-FDD Band IV: 20.68 dBm

ERP/EIRP:

GSM850: 29.43 dBm / ERP
PCS1900: 32.34 dBm / EIRP
UMTS-FDD Band V : 19.94 dBm / ERP
UMTS-FDD Band II : 24.22 dBm / EIRP
UMTS-FDD Band IV: 22.56 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: A98A-050100U-US1
Input: AC 100-240V; 50/60Hz;0.2A
Output: DC 5.0V,1.0A
Battery:
Model: s5525
Spec:3.8V,2800mAh,10.64Wh
Limited charger voltage :4.35V

Trade Name :

verykool

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

FCC ID: WA6S5525

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

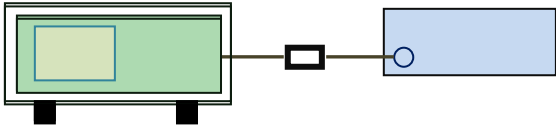
The EUT is a portable device, thus requires SAR evaluation;
Please refer to RF Exposure Evaluation Report: 16070293-FCC-H.

6.2 RF Output Power

Temperature	24°C
Relative Humidity	52%
Atmospheric Pressure	1019mbar
Test date :	April 19, 2016
Tested By :	Winnie Zhang

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	
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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
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	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 = $10 \log (\text{TX power in Watts}/0.001)$ – the absolute level - Spurious attenuation limit in dB = $43 + 10 \text{ Log}_{10} (\text{power out in Watts})$.
Remark	
Result	☒ Pass ☐ Fail

Test Data ☒ Yes ☐ N/A

Test Plot ☐ Yes (See below) ☒ N/A

GSM Mode:

[illegible]

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	22.85	22±1
	4175	835	22.25	22±1
	4233	846.6	22.64	22±1
HSDPA Subtest1	4132	826.4	21.36	22±1
	4175	835	21.58	22±1
	4233	846.6	21.45	22±1
HSDPA Subtest2	4132	826.4	21.15	22±1
	4175	835	21.16	22±1
	4233	846.6	21.37	22±1
HSDPA Subtest3	4132	826.4	21.15	22±1
	4175	835	21.14	22±1
	4233	846.6	21.25	22±1
HSDPA Subtest4	4132	826.4	21.35	22±1
	4175	835	21.31	22±1
	4233	846.6	21.26	22±1
HSUPA Subtest1	4132	826.4	21.86	22±1
	4175	835	21.53	22±1
	4233	846.6	21.42	22±1
HSUPA Subtest2	4132	826.4	21.27	22±1
	4175	835	21.55	22±1
	4233	846.6	21.43	22±1
HSUPA Subtest3	4132	826.4	21.44	22±1
	4175	835	21.88	22±1
	4233	846.6	21.56	22±1
HSUPA Subtest4	4132	826.4	21.54	22±1
	4175	835	21.88	22±1
	4233	846.6	21.34	22±1
HSUPA Subtest5	4132	826.4	21.36	22±1
	4175	835	21.45	22±1
	4233	846.6	21.44	22±1

UMTS-FDD Band II

Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)	Tune up Power tolerant
RMC 12.2kbps	9262	1852.4	21.48	21.3±1
	9400	1880	21.54	21.3±1
	9538	1907.6	21.58	21.3±1
HSDPA Subtest1	9262	1852.4	20.86	21.3±1
	9400	1880	20.57	21.3±1
	9538	1907.6	20.66	21.3±1
HSDPA Subtest2	9262	1852.4	20.75	21.3±1
	9400	1880	20.89	21.3±1
	9538	1907.6	20.78	21.3±1
HSDPA Subtest3	9262	1852.4	20.66	21.3±1
	9400	1880	20.76	21.3±1
	9538	1907.6	20.93	21.3±1
HSDPA Subtest4	9262	1852.4	20.48	21.3±1
	9400	1880	20.97	21.3±1
	9538	1907.6	20.48	21.3±1
HSUPA Subtest1	9262	1852.4	20.68	21.3±1
	9400	1880	20.45	21.3±1
	9538	1907.6	20.83	21.3±1
HSUPA Subtest2	9262	1852.4	20.39	21.3±1
	9400	1880	20.75	21.3±1
	9538	1907.6	20.64	21.3±1
HSUPA Subtest3	9262	1852.4	20.86	21.3±1
	9400	1880	20.77	21.3±1
	9538	1907.6	20.61	21.3±1
HSUPA Subtest4	9262	1852.4	20.94	21.3±1
	9400	1880	20.73	21.3±1
	9538	1907.6	20.59	21.3±1
HSUPA Subtest5	9262	1852.4	20.86	21.3±1
	9400	1880	20.79	21.3±1
	9538	1907.6	20.68	21.3±1

UMTS-FDD Band IV

Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)	Tune up Power tolerant
RMC 12.2kbps	1313	1712.6	20.35	21.3±1
	1413	1732.6	20.48	21.3±1
	1512	1752.4	20.68	21.3±1
HSDPA Subtest1	1313	1712.6	20.36	21.3±1
	1413	1732.6	20.53	21.3±1
	1512	1752.4	20.46	21.3±1
HSDPA Subtest2	1313	1712.6	20.55	21.3±1
	1413	1732.6	20.59	21.3±1
	1512	1752.4	20.58	21.3±1
HSDPA Subtest3	1313	1712.6	20.56	21.3±1
	1413	1732.6	20.46	21.3±1
	1512	1752.4	20.43	21.3±1
HSDPA Subtest4	1313	1712.6	20.38	21.3±1
	1413	1732.6	20.57	21.3±1
	1512	1752.4	20.44	21.3±1
HSUPA Subtest1	1313	1712.6	20.38	21.3±1
	1413	1732.6	20.48	21.3±1
	1512	1752.4	20.33	21.3±1
HSUPA Subtest2	1313	1712.6	20.34	21.3±1
	1413	1732.6	20.55	21.3±1
	1512	1752.4	20.64	21.3±1
HSUPA Subtest3	1313	1712.6	20.46	21.3±1
	1413	1732.6	20.47	21.3±1
	1512	1752.4	20.41	21.3±1
HSUPA Subtest4	1313	1712.6	20.44	21.3±1
	1413	1732.6	20.33	21.3±1
	1512	1752.4	20.53	21.3±1
HSUPA Subtest5	1313	1712.6	20.46	21.3±1
	1413	1732.6	20.39	21.3±1
	1512	1752.4	20.58	21.3±1

ERP & EIRP

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	22.49	V	6.8	0.53	28.76	38.45
824.2	23.16	H	6.8	0.53	29.43	38.45
836.6	22.65	V	6.8	0.53	28.92	38.45
836.6	22.94	H	6.8	0.53	29.21	38.45
848.8	22.21	V	6.9	0.53	28.58	38.45
848.8	23.03	H	6.9	0.53	29.40	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	24.15	V	7.88	0.85	31.18	33
1850.2	25.21	H	7.88	0.85	32.24	33
1880	24.17	V	7.88	0.85	31.20	33
1880	25.31	H	7.88	0.85	32.34	33
1909.8	23.82	V	7.86	0.85	30.83	33
1909.8	24.12	H	7.86	0.85	31.13	33

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

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
826.4	13.52	V	6.8	0.53	19.79	38.45
826.4	13.67	H	6.8	0.53	19.94	38.45
835	12.85	V	6.8	0.53	19.12	38.45
835	12.93	H	6.8	0.53	19.20	38.45
846.6	13.04	V	6.9	0.53	19.41	38.45
846.6	13.21	H	6.9	0.53	19.58	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	16.88	V	7.88	0.85	23.91	33
1852.4	17.02	H	7.88	0.85	24.05	33
1880	17.01	V	7.88	0.85	24.04	33
1880	17.12	H	7.88	0.85	24.15	33
1907.6	17.07	V	7.86	0.85	24.08	33
1907.6	17.21	H	7.86	0.85	24.22	33

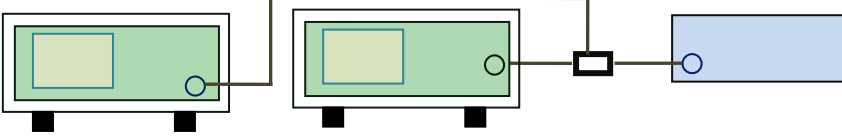
EIRP for UMTS-FDD Band IV (Part 27H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1712.4	15.31	V	7.76	0.82	22.25	30
1712.4	14.15	H	7.76	0.82	21.09	30
1740	15.23	V	7.76	0.82	22.17	30
1740	13.95	H	7.76	0.82	20.89	30
1752.6	15.64	V	7.74	0.82	22.56	30
1752.6	13.87	H	7.74	0.82	20.79	30

6.3 Peak-Average Ratio

Temperature	24°C
Relative Humidity	52%
Atmospheric Pressure	1019mbar
Test date :	April 19, 2016
Tested By :	Winnie Zhang

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 13 dB.	☒
Test Setup			
Test Procedure	According with KDB 971168 v02r02 1. The signal analyzer' s CCDF measurement profile is enabled 2. Frequency = carrier center frequency 3. Measurement BW > Emission bandwidth of signal 4. The signal analyzer was set to collect one million samples to generate the CCDF curve 5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal “ RF Burst” trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the “ on time” of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power		
Remark			
Result	☒ Pass ☐ Fail		

Test Data ☒ Yes ☐ N/A

Test Plot ☐ Yes (See below) ☒ N/A

GSM 1900 PK-AV POWER(PART 24E)

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1850.2	30.25	28.83	1.42
1880	30.44	28.77	1.67
1909.8	30.77	28.31	2.46

UMTS-FDD Band II PK-AV POWER(PART 24E)

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1852.4	24.86	21.48	3.38
1880	24.83	21.45	3.38
1907.6	25.03	21.58	3.45

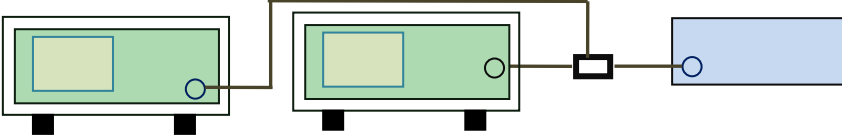
UMTS-FDD BandIV PK-AV POWER (PART 27)

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1712.6	23.81	20.35	3.46
1732.6	23.71	20.48	3.23
1752.4	24.01	20.68	3.33

6.4 Occupied Bandwidth

Temperature	23°C
Relative Humidity	51%
Atmospheric Pressure	1018mbar
Test date :	April 18, 2016
Tested By :	Winnie Zhang

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

Cellular Band (Part 22H) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
128	824.2	245.2996	315.586
190	836.6	244.7215	315.430
251	848.8	243.7506	312.608

PCS Band (Part 24E) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
512	1850.2	241.7208	320.423
661	1880.0	247.7999	317.165
810	1909.8	247.0860	317.710

UMTS-FDD Band V (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
4132	826.4	4.1498	4.671
4175	835.0	4.1601	4.684
4233	846.6	4.1538	4.705

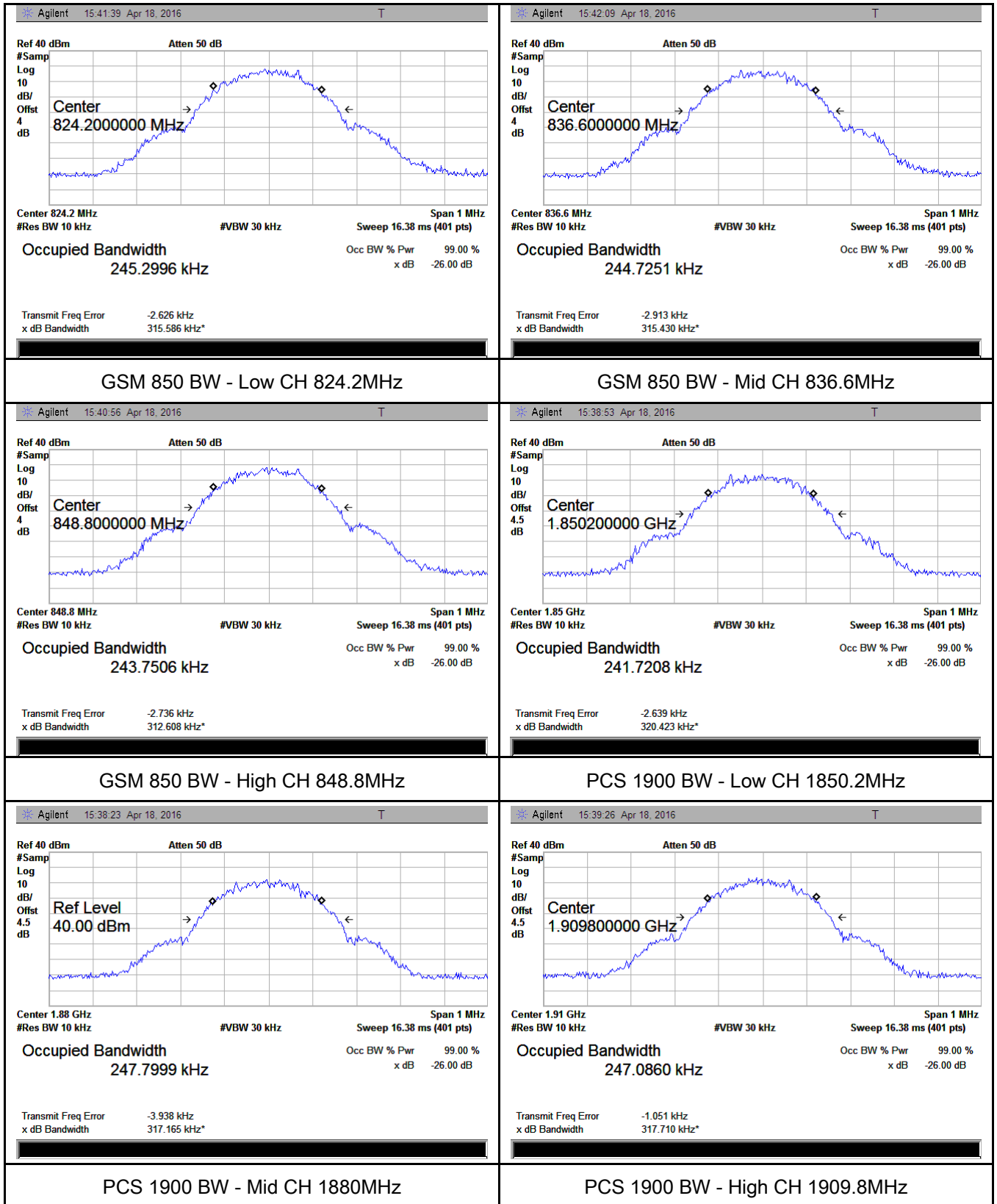
UMTS-FDD Band II (Part 24E)

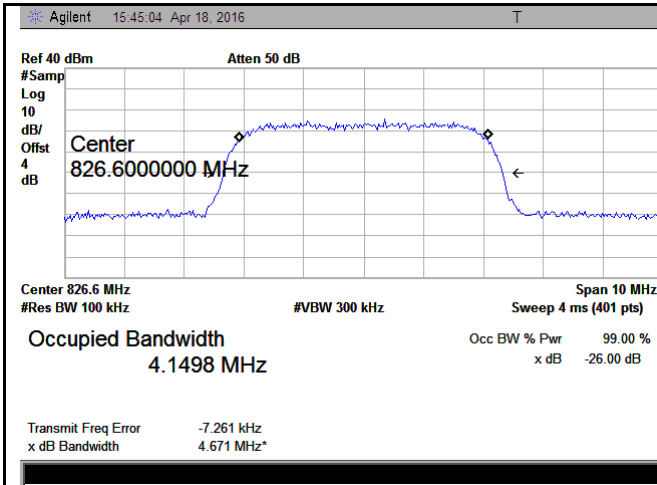
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
9262	1852.4	4.1532	4.702
9400	1880.0	4.1596	4.705
9538	1907.6	4.1654	4.706

UMTS-FDD Band IV (Part 27)

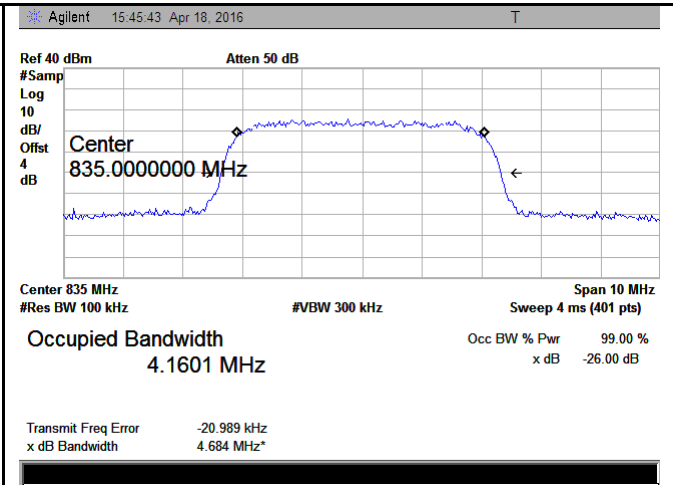
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
1313	1712.6	4.1686	4.669
1413	1732.6	4.1641	4.708
1512	1752.4	4.1627	4.699

Test Plots

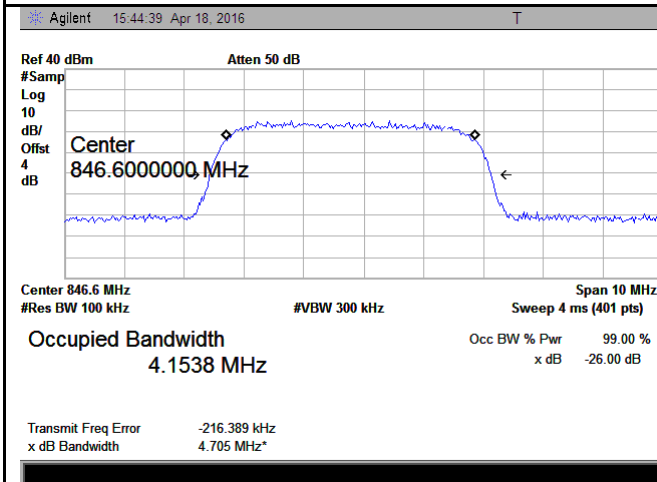




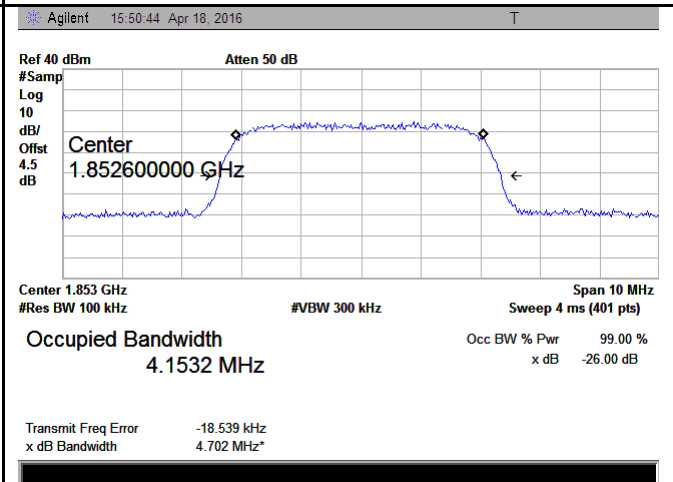
Band V BW - Low CH 826.6 MHz



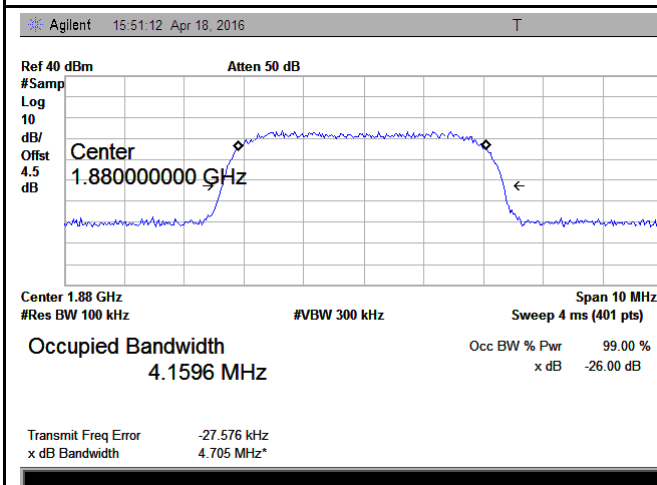
Band V BW - Mid CH 835.0 MHz



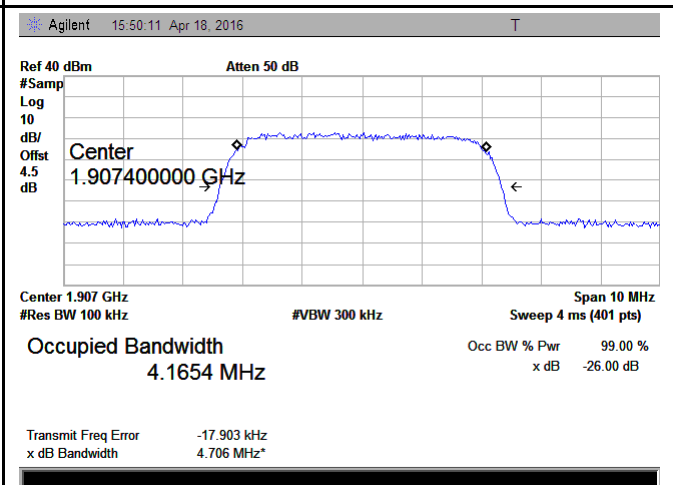
Band V BW - High CH 846.4 MHz



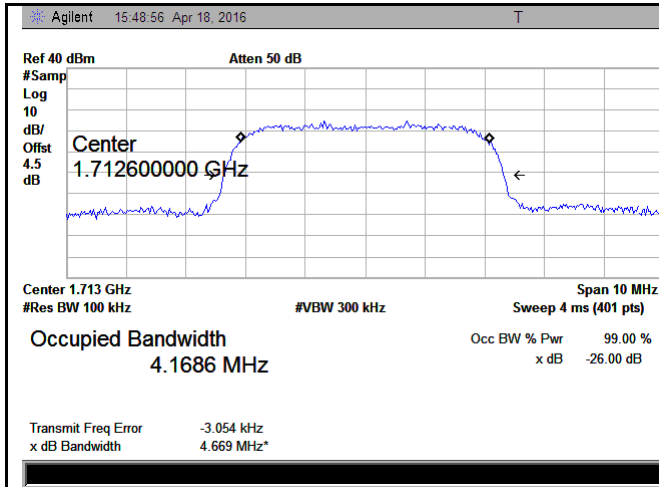
Band II BW - Low CH 1852.4MHz



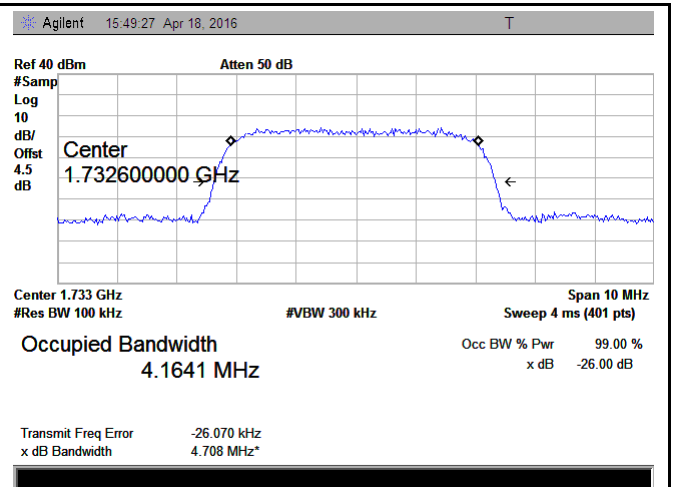
Band II BW - Mid CH 1880MHz



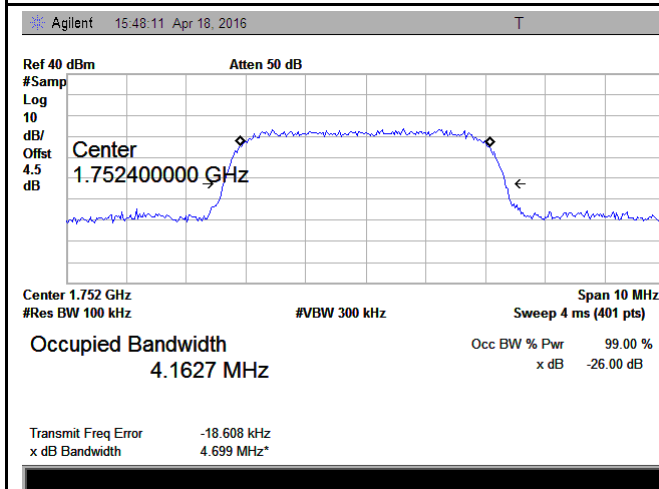
Band II BW - High CH 1907.6MHz



Band IV BW - Low CH 1712.6MHz



Band IVBW - Mid CH 1732.6MHz

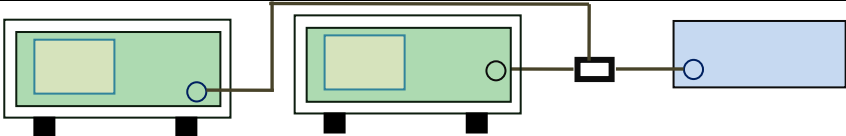


Band IV BW - High CH 1752.4MHz

6.5 Spurious Emissions at Antenna Terminals

Temperature	23°C
Relative Humidity	51%
Atmospheric Pressure	1018mbar
Test date :	April 18, 2016
Tested By :	Winnie Zhang

Requirement(s):

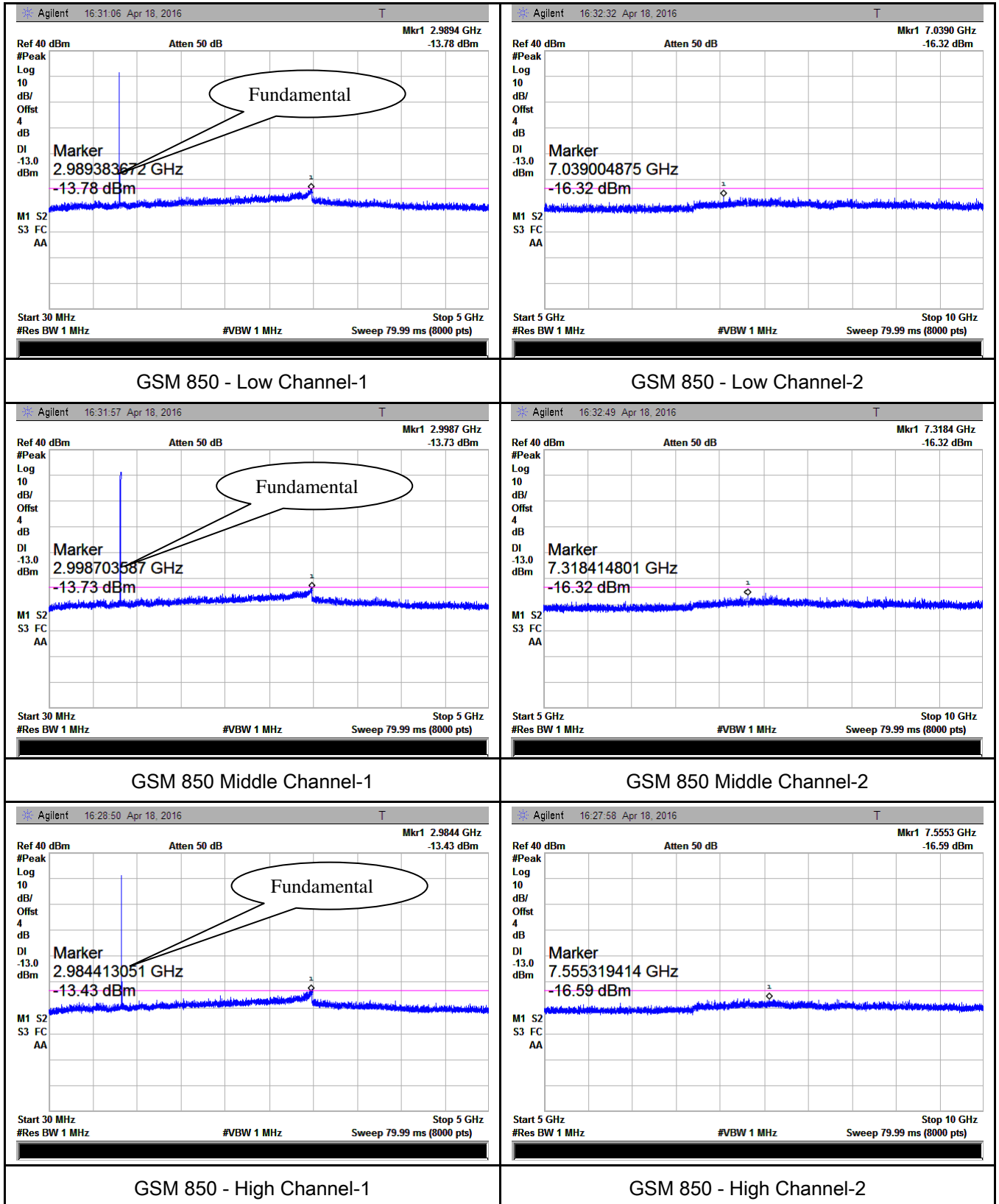
Spec	Item	Requirement	Applicable
§2.1051, §22.917(a)& §24.238(a) § 27.53(h)	a)	The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB	☒
Test Setup			
Test Procedure	- The EUT was connected 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

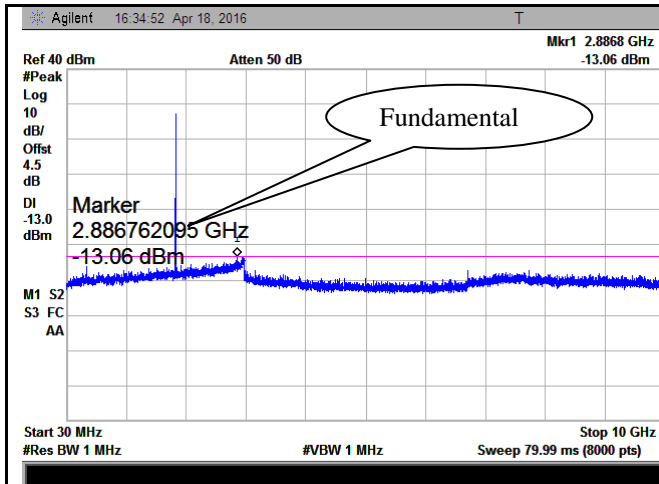
Test Plot ☒ Yes (See below) ☐ N/A

Test Plots

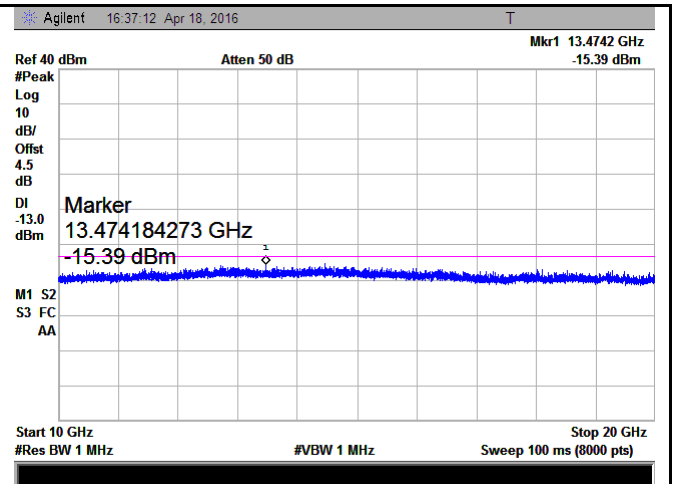
Cellular Band (Part 22H) result



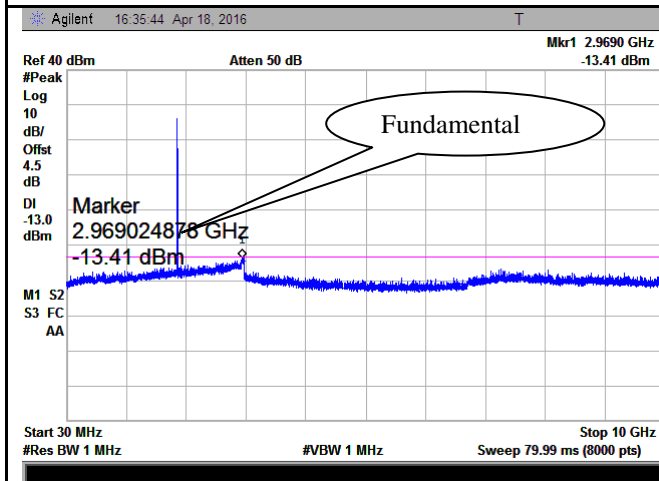
PCS Band (Part24E) result



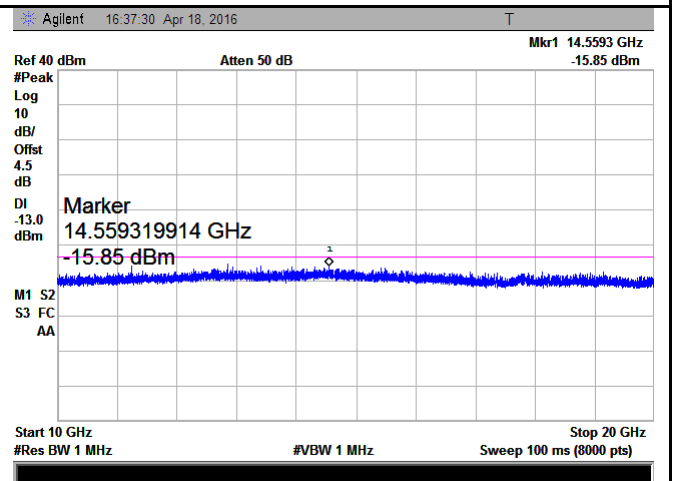
PCS1900 - Low Channel-1



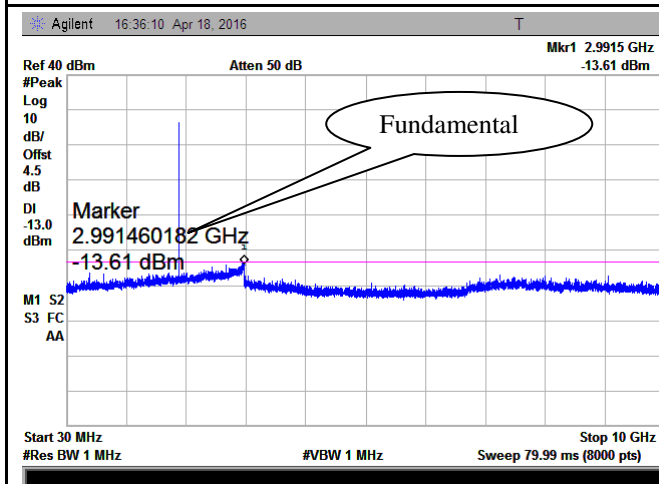
PCS 1900 - Low Channel-2



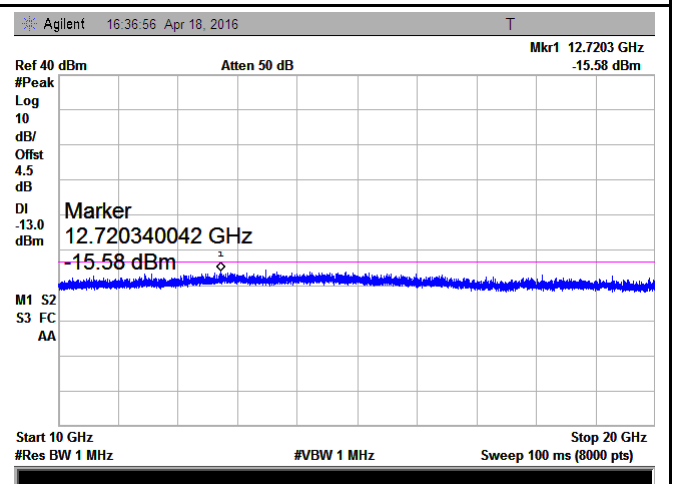
PCS1900 - Middle Channel-1



PCS 1900 - Middle Channel-2

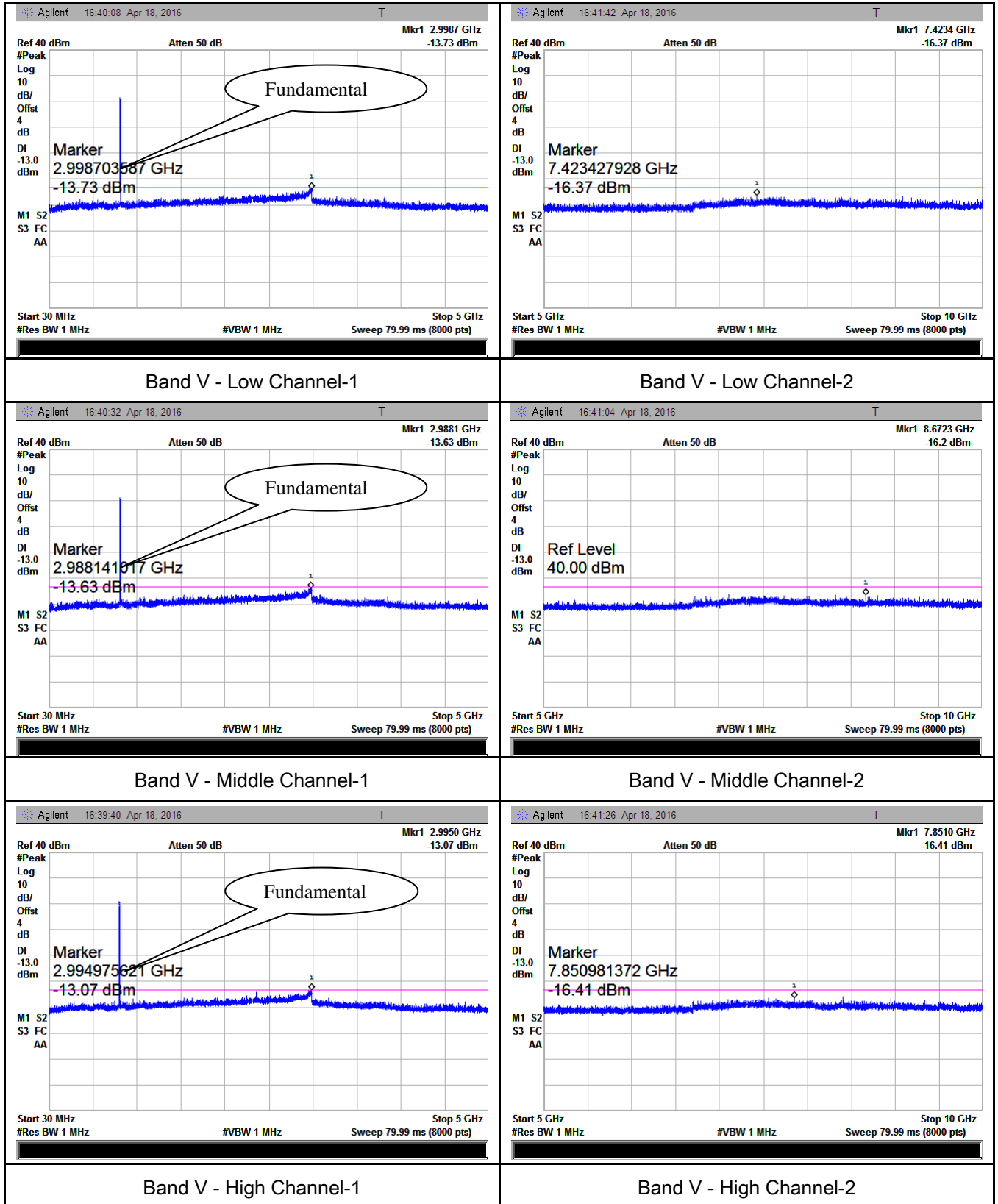


PCS1900 - High Channel-1

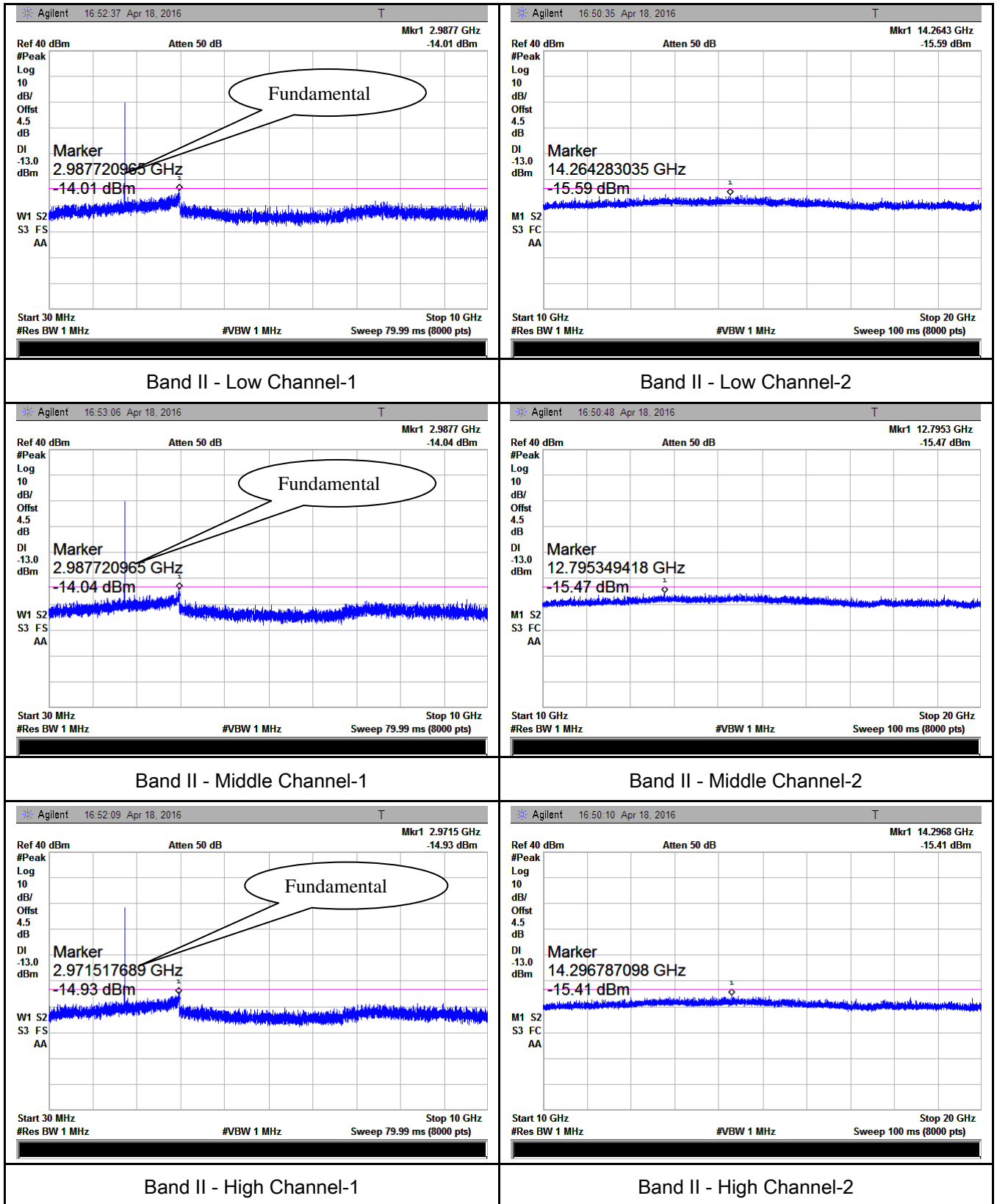


PCS 1900 - High Channel-2

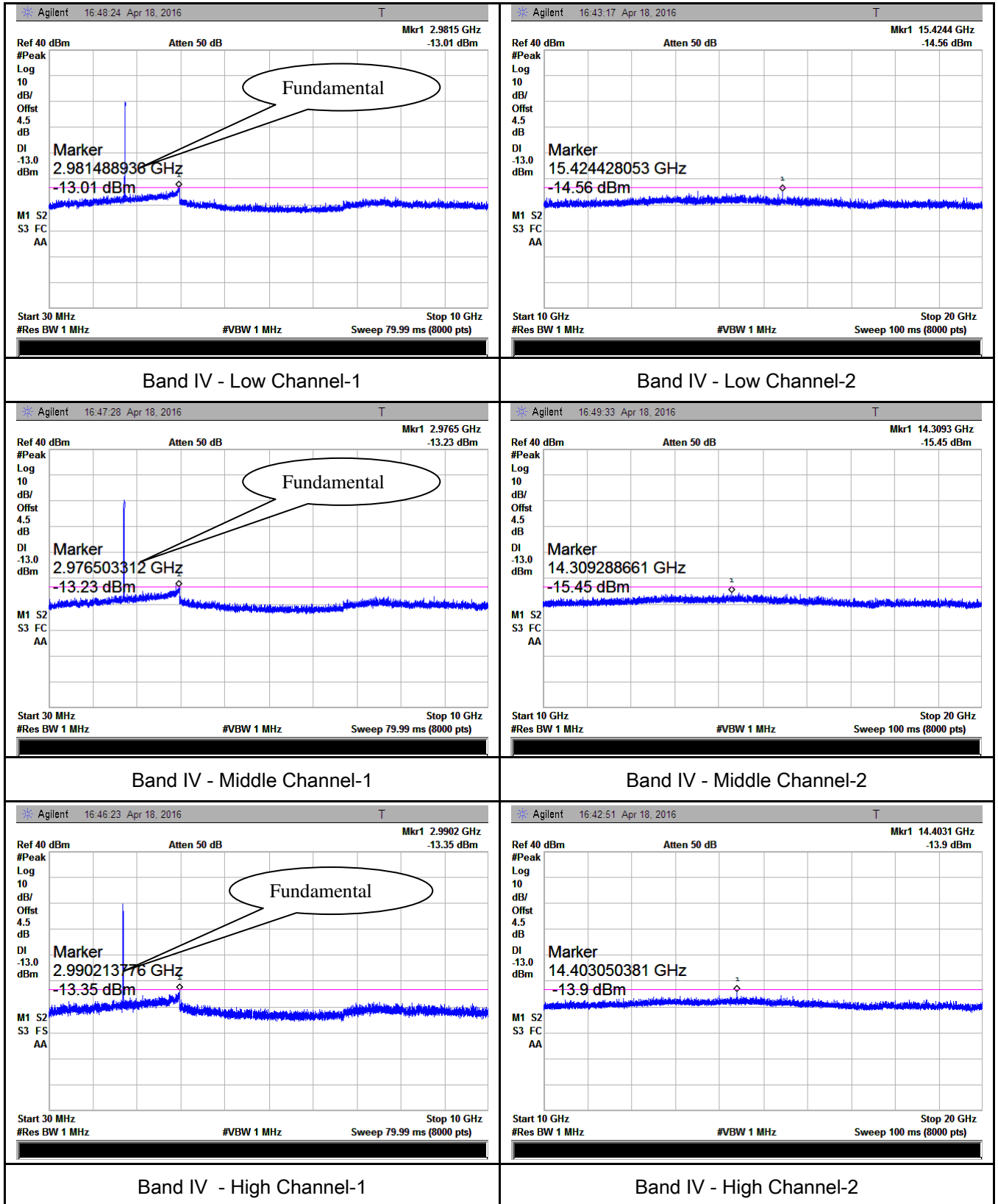
UMTS-FDD Band V (Part 22H)



UMTS-FDD Band II (Part 24E)



UMTS-FDD Band IV (Part 27)

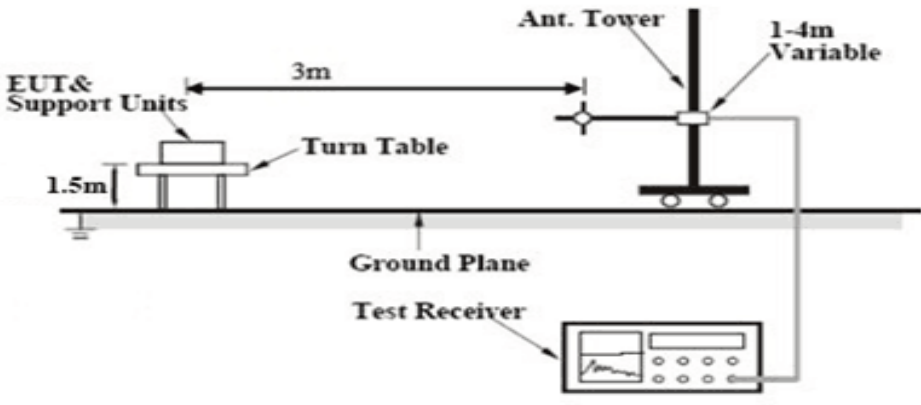


6.6 Spurious Radiated Emissions

Temperature	24°C
Relative Humidity	52%
Atmospheric Pressure	1019mbar
Test date :	April 19, 2016
Tested By :	Winnie Zhang

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	 The diagram illustrates the test setup. A turntable is placed on a ground plane, with EUT & Support Units on top. The turntable is 1.5m high. A distance of 3m is marked between the turntable and an antenna tower. The antenna tower has a 1-4m variable height. A test receiver is connected to the antenna tower.
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Test Procedure	- 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. - 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)
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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	-42.05	V	7.95	0.78	-34.88	-13	-21.88
1648.4	-44.6	H	7.95	0.78	-37.43	-13	-24.43
421.3	-51.29	V	6.5	0.3	-45.09	-13	-32.09
853.9	-49.68	H	6.9	0.44	-43.22	-13	-30.22

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	-41.89	V	7.95	0.78	-34.72	-13	-21.72
1673.2	-43.77	H	7.95	0.78	-36.6	-13	-23.6
421.5	-52.62	V	6.5	0.3	-46.42	-13	-33.42
853.3	-50.14	H	6.9	0.44	-43.68	-13	-30.68

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	-41.69	V	7.95	0.78	-34.52	-13	-21.52
1697.6	-42.56	H	7.95	0.78	-35.39	-13	-22.39
422.1	-53.03	V	6.5	0.3	-46.83	-13	-33.83
853.6	-50.99	H	6.9	0.44	-44.53	-13	-31.53

Note:

1, The testing has been conformed to $10 \times 848.8 \text{ MHz} = 8,488 \text{ MHz}$

2, All other emissions more than 30 dB below the limit

3, X-Axis, Y-Axis and -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	-48.67	V	10.25	2.73	-41.15	-13	-28.15
3700.4	-48.25	H	10.25	2.73	-40.73	-13	-27.73
422.4	-53.74	V	6.5	0.3	-47.54	-13	-34.54
852.8	-51.32	H	6.9	0.44	-44.86	-13	-31.86

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	-50.34	V	10.25	2.73	-42.82	-13	-29.82
3760	-49.76	H	10.25	2.73	-42.24	-13	-29.24
422.5	-53.15	V	6.5	0.3	-46.95	-13	-33.95
852.4	-51.69	H	6.9	0.44	-45.23	-13	-32.23

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	49.68	V	10.36	2.73	57.31	-13	70.31
3819.6	-49.26	H	10.36	2.73	-41.63	-13	-28.63
421.8	-53.98	V	6.5	0.3	-47.78	-13	-34.78
853.6	-52.04	H	6.9	0.44	-45.58	-13	-32.58

Note:

1, The testing has been conformed to $10 \times 1909.8 \text{ MHz} = 19,098 \text{ MHz}$

2, All other emissions more than 30 dB below the limit

3, X-Axis, Y-Axis and -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	-45.79	V	7.95	0.78	-38.62	-13	-25.62
1652.8	-44.25	H	7.95	0.78	-37.08	-13	-24.08
423.5	-53.89	V	6.5	0.3	-47.69	-13	-34.69
854.2	-52.04	H	6.9	0.44	-45.58	-13	-32.58

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	-50.01	V	7.95	0.78	-42.84	-13	-29.84
1670	-47.38	H	7.95	0.78	-40.21	-13	-27.21
423.2	-53.46	V	6.5	0.3	-47.26	-13	-34.26
854.1	-50.67	H	6.9	0.44	-44.21	-13	-31.21

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	-49.38	V	7.95	0.78	-42.21	-13	-29.21
1693.2	-47.64	H	7.95	0.78	-40.47	-13	-27.47
423.9	-53.16	V	6.5	0.3	-46.96	-13	-33.96
854.7	-52.22	H	6.9	0.44	-45.76	-13	-32.76

Note:

1, The testing has been conformed to $10 \times 846.6 \text{ MHz} = 8,466 \text{ MHz}$

2, All other emissions more than 30 dB below the limit

3, X-Axis, Y-Axis and -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	-48.36	V	10.25	2.73	-40.84	-13	-27.84
3704.8	-50.48	H	10.25	2.73	-42.96	-13	-29.96
422.8	-52.68	V	6.5	0.3	-46.48	-13	-33.48
852.4	-51.33	H	6.9	0.44	-44.87	-13	-31.87

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	-48.34	V	10.25	2.73	-40.82	-13	-27.82
3760	-49.67	H	10.25	2.73	-42.15	-13	-29.15
422.7	-53.14	V	6.5	0.3	-46.94	-13	-33.94
852.7	-52.13	H	6.9	0.44	-45.67	-13	-32.67

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	-48.57	V	10.36	2.73	-40.94	-13	-27.94
3815.2	-49.88	H	10.36	2.73	-42.25	-13	-29.25
422.3	-52.69	V	6.5	0.3	-46.49	-13	-33.49
852.5	-49.87	H	6.9	0.44	-43.41	-13	-30.41

Note:

1, The testing has been conformed to $10 \times 1907.6 \text{ MHz} = 19,076 \text{ MHz}$

2, All other emissions more than 30 dB below the limit

3, X-Axis, Y-Axis and -Axis were investigated. The results above show only the worst case.

UMTS-FDD Band IV (Part 27)

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	-45.86	V	10.07	2.52	-38.31	-13	-25.31
3424.8	-47.98	H	10.07	2.52	-40.43	-13	-27.43
323.5	-50.89	V	6.4	0.26	-44.75	-13	-31.75
738.2	-52.15	H	7.1	0.42	-45.47	-13	-32.47

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	-46.28	V	10.09	2.52	-38.71	-13	-25.71
3480	-45.69	H	10.09	2.52	-38.12	-13	-25.12
323.9	-51.03	V	6.4	0.26	-44.89	-13	-31.89
738.8	-52.97	H	7.1	0.42	-46.29	-13	-33.29

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	-45.34	V	10.09	2.52	-37.77	-13	-24.77
3505.2	-46.29	H	10.09	2.52	-38.72	-13	-25.72
324.3	-51.29	V	6.4	0.26	-45.15	-13	-32.15
739.4	-51.64	H	7.1	0.42	-44.96	-13	-31.96

Note:

1, The testing has been conformed to $10 \times 1752.6 \text{ MHz} = 17,526 \text{ MHz}$

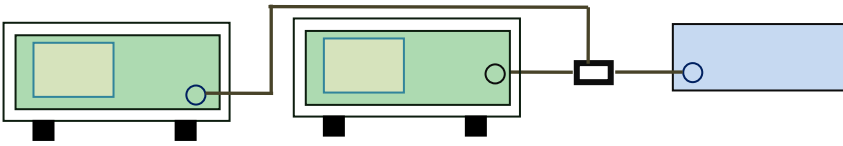
2, All other emissions more than 30 dB below the limit

3, X-Axis, Y-Axis and -Axis were investigated. The results above show only the worst case.

6.7 Band Edge

Temperature	23°C
Relative Humidity	51%
Atmospheric Pressure	1018mbar
Test date :	April 18, 2016
Tested By :	Winnie Zhang

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

Cellular Band (Part 22H) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.9950	-14.07	-13
849.0175	-13.18	-13

PCS Band (Part24E) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.9950	-18.08	-13
1910.0025	-18.54	-13

UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.900	-24.99	-13
849.075	-28.55	-13

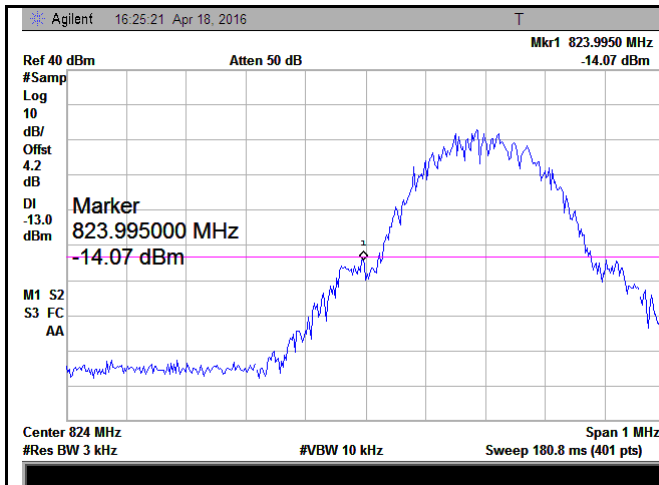
UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.900	-27.52	-13
1910.075	-29.89	-13

UMTS-FDD Band IV (Part 27)

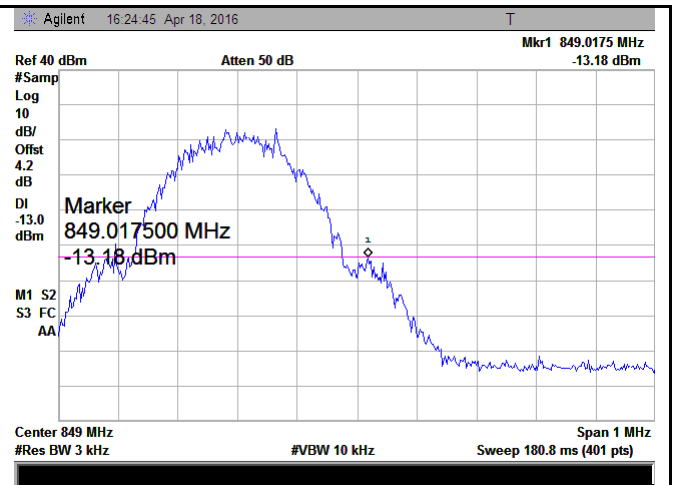
Frequency (MHz)	Emission (dBm)	Limit (dBm)
1709.900	-25.21	-13
1755.025	-26.61	-13

Test Plots



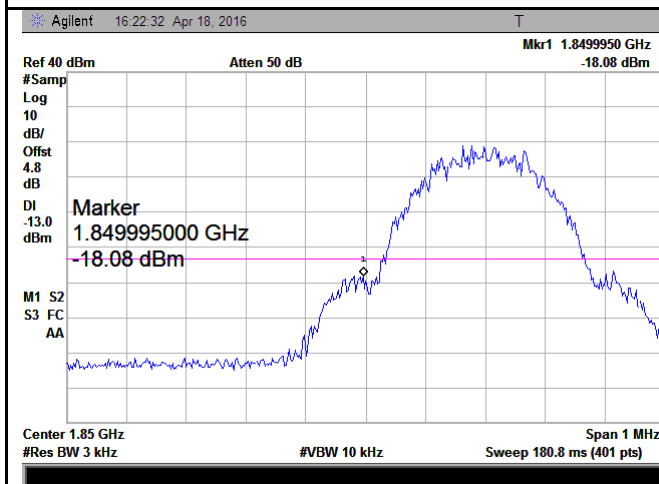
Cellular Band - Low Channel

Note: Offset=Cable loss (4.0) + 10log
(3.15/3)=4.0+0.2=4.2dB



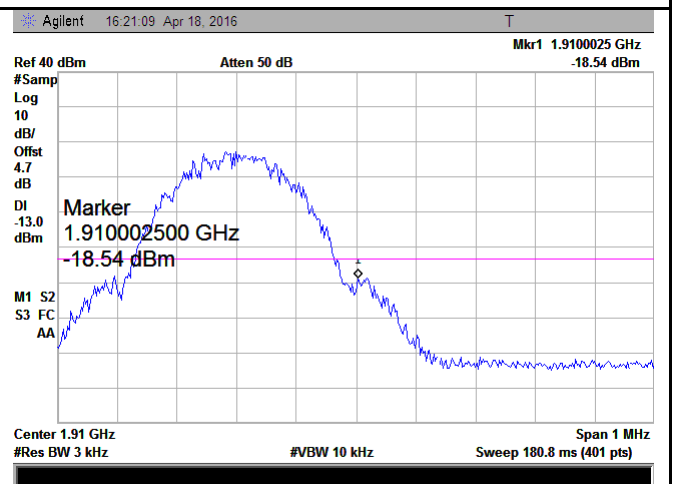
Cellular Band - High Channel

Note: Offset=Cable loss (4.0) + 10log
(3.12/3)=4.0+0.2=4.2dB



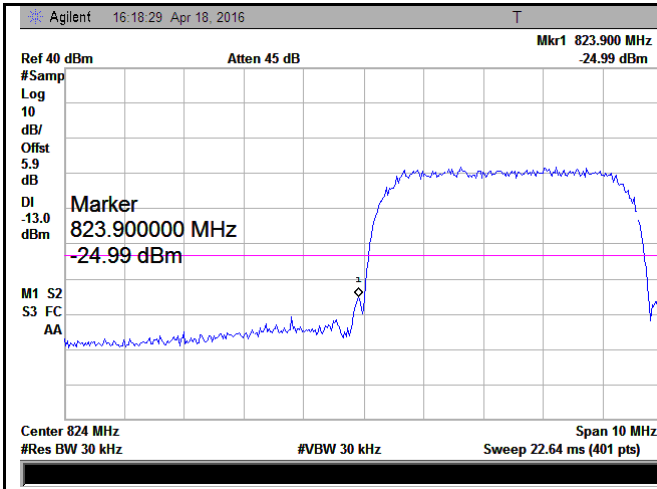
PCS Band - Low Channel

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



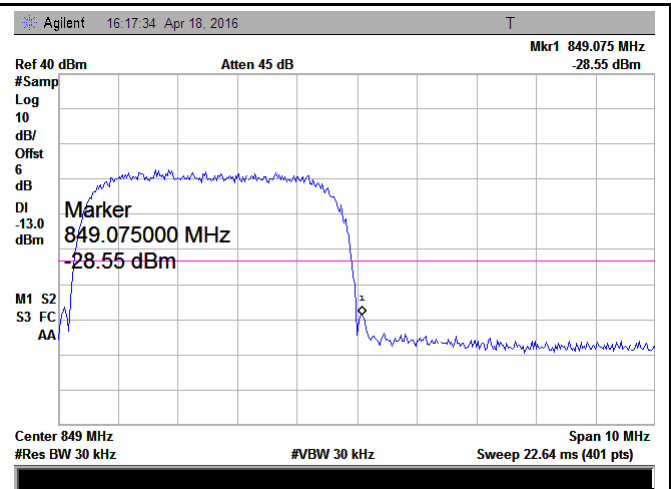
PCS Band - High Channel

Note: Offset=Cable loss (4.5) + 10log
(3.17/3)=4.5+0.2=4.7dB



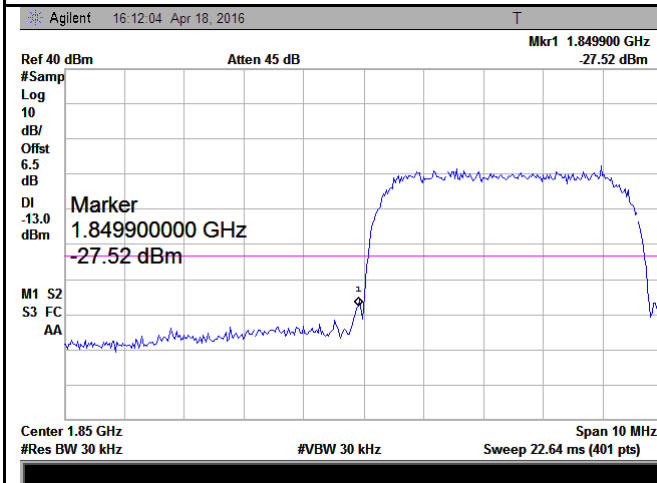
UMTS-FDD Band V - Low Channel

Note: Offset=Cable loss (4.0) + 10log
(46.71/30)=4.0+1.9=5.9dB



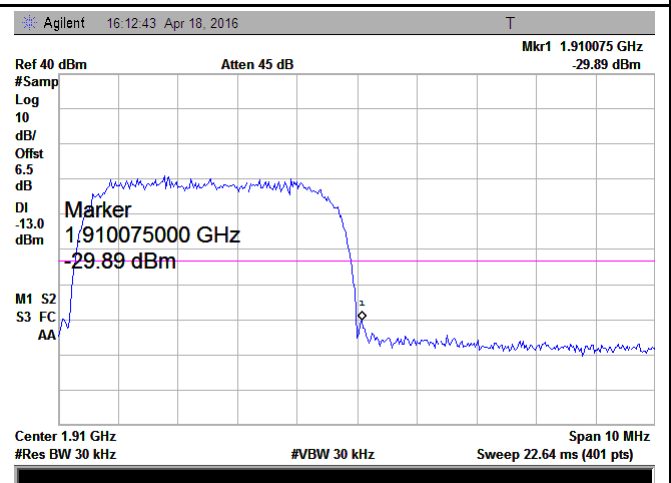
UMTS-FDD Band V - High Channel

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



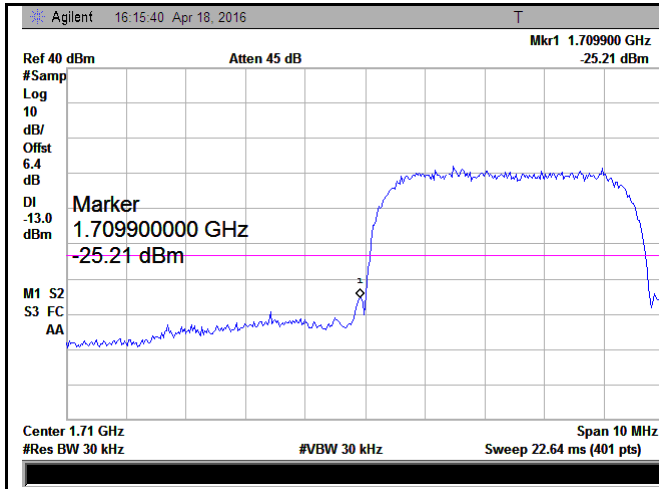
UMTS-FDD Band II - Low Channel

Note: Offset=Cable loss (4.5) + 10log
(47.02/30)=4.5+2.0=6.5dB



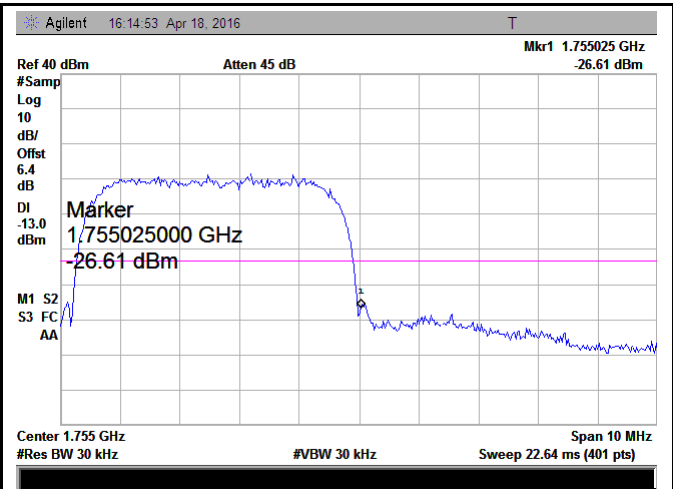
UMTS-FDD Band II - High Channel

Note: Offset=Cable loss (4.5) + 10log
(47.06/30)=4.5+2.0=6.5dB



UMTS-FDD Band IV - Low Channel

Note: Offset=Cable loss (4.5) + 10log
(46.69/30)=4.5+1.9=6.4dB



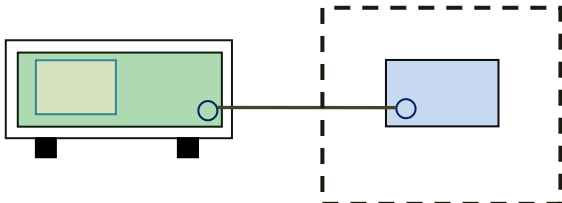
UMTS-FDD Band IV - High Channel

Note: Offset=Cable loss (4.5) + 10log
(46.99/30)=4.5+1.9=6.4dB

6.8 Frequency Stability

Temperature	24°C
Relative Humidity	52%
Atmospheric Pressure	1019mbar
Test date :	April 19, 2016
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement	Applicable																																
§2.1055, §22.355 & §24.235 § 27.5(h); § 27.54	a)	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 border="1"> <thead> <tr> <th>Frequency Range (MHz)</th><th>Base, fixed (ppm)</th><th>Mobile ≤ 3 watts (ppm)</th><th>Mobile ≤ 3 watts (ppm)</th></tr> </thead> <tbody> <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> </tbody> </table> According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized frequency block.	Frequency Range (MHz)	Base, fixed (ppm)	Mobile ≤ 3 watts (ppm)	Mobile ≤ 3 watts (ppm)	25 to 50	20.0	20.0	50.0	50 to 450	5.0	5.0	50.0	45 to 512	2.5	5.0	.0	821 to 896	1.5	2.5	2.5	928 to 29.	5.0	N/A	N/A	929 to 960.	1.5	N/A	N/A	2110 to 2220	10.0	N/A	N/A	☒
Frequency Range (MHz)	Base, fixed (ppm)	Mobile ≤ 3 watts (ppm)	Mobile ≤ 3 watts (ppm)																																
25 to 50	20.0	20.0	50.0																																
50 to 450	5.0	5.0	50.0																																
45 to 512	2.5	5.0	.0																																
821 to 896	1.5	2.5	2.5																																
928 to 29.	5.0	N/A	N/A																																
929 to 960.	1.5	N/A	N/A																																
2110 to 2220	10.0	N/A	N/A																																
Test setup																																			

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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 $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.
Remark	
Result	☒ Pass ☐ Fail

Test Data ☒ Yes ☐ N/A

Test Plot ☐ Yes (See below) ☒ N/A

Cellular Band (Part 22H) result

Middle Channel, $f_0 = 836.6$ MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	-14	0.0167	2.5
0		-11	0.0131	2.5
10		-9	0.0108	2.5
20		-7	0.0084	2.5
30		-8	0.0096	2.5
40		-9	0.0108	2.5
50		-11	0.0131	2.5
55		-13	0.0155	2.5
25	4.2	-12	0.0143	2.5
	3.5	-14	0.0167	2.5

PCS Band (Part 24E) result

Middle Channel, $f_0 = 1880$ MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	-13	0.0069	2.5
0		-10	0.0053	2.5
10		-9	0.0048	2.5
20		-5	0.0027	2.5
30		-10	0.0053	2.5
40		-12	0.0064	2.5
50		-14	0.0074	2.5
55		-15	0.0080	2.5
25	4.2	-17	0.0090	2.5
	3.5	-12	0.0064	2.5

UMTS-FDD Band V (Part 22H)

Middle Channel, $f_0 = 835$ MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	14	0.0168	2.5
0		11	0.0132	2.5
10		10	0.0120	2.5
20		8	0.0096	2.5
30		10	0.0120	2.5
40		12	0.0144	2.5
50		13	0.0156	2.5
55		15	0.0180	2.5
25	4.2	12	0.0144	2.5
	3.5	15	0.0180	2.5

UMTS-FDD Band II (Part 24E)

Middle Channel, $f_0 = 1880$ MHz				
Temperature (°C)	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		8	0.0043	2.5
20		5	0.0027	2.5
30		6	0.0032	2.5
40		12	0.0064	2.5
50		15	0.0080	2.5
55		17	0.0090	2.5
25	4.2	12	0.0064	2.5
	3.5	18	0.0096	2.5

UMTS-FDD Band IV (Part 27)

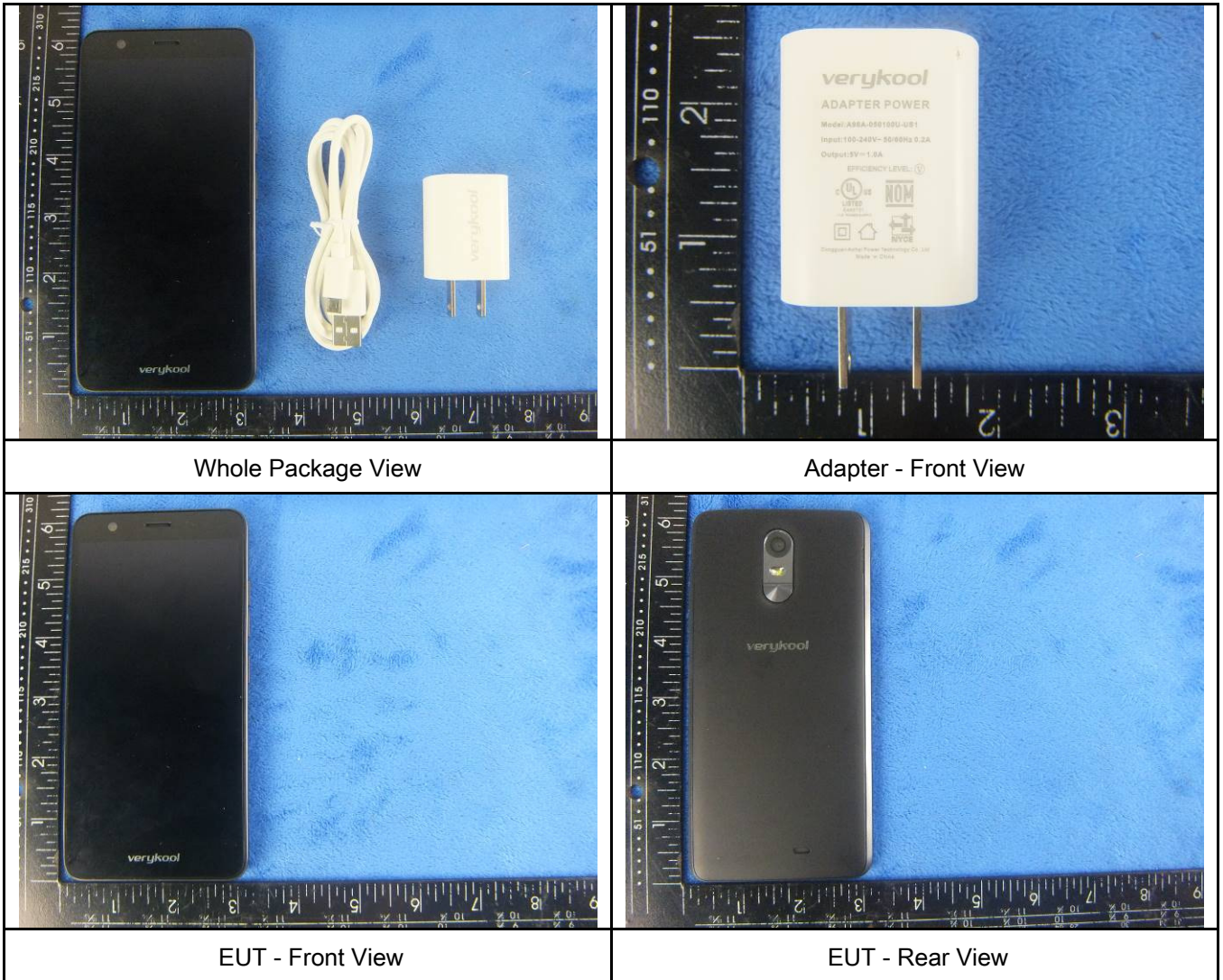
Middle Channel, $f_0 = 1732.6$ MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	11	0.0063	2.5
0		9	0.0052	2.5
10		7	0.0040	2.5
20		5	0.0029	2.5
30		6	0.0035	2.5
40		8	0.0046	2.5
50		10	0.0058	2.5
55		10	0.0058	2.5
25	4.2	8	0.0046	2.5
	3.5	9	0.0052	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	☒
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	☒
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

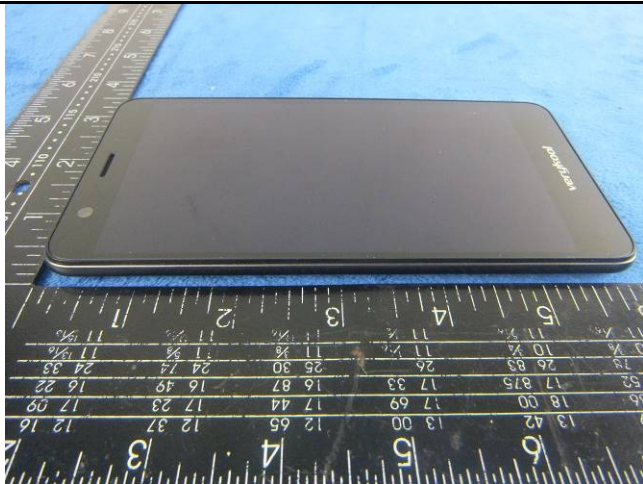




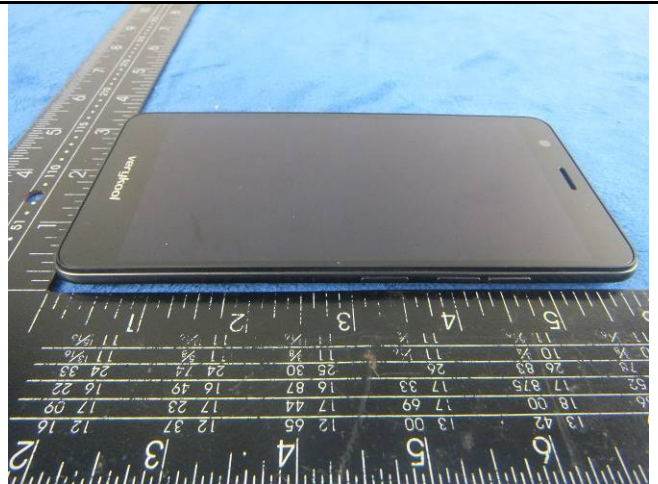
EUT - Top View



EUT - Bottom View



EUT - Left View



EUT - Right View

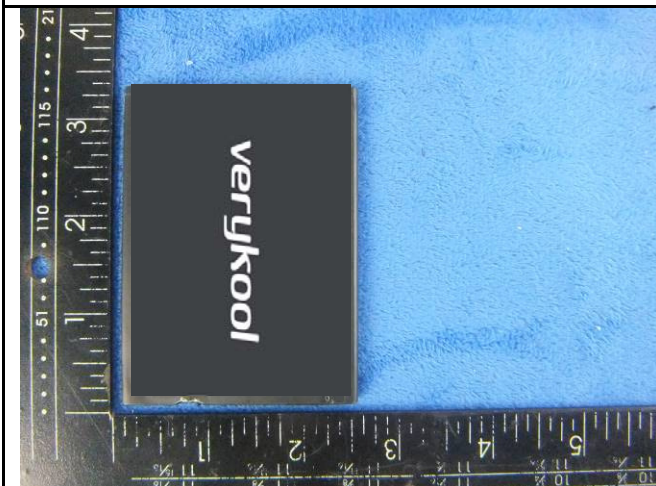
Annex B.ii. Photograph: EUT Internal Photo



Cover Off - Top View 1



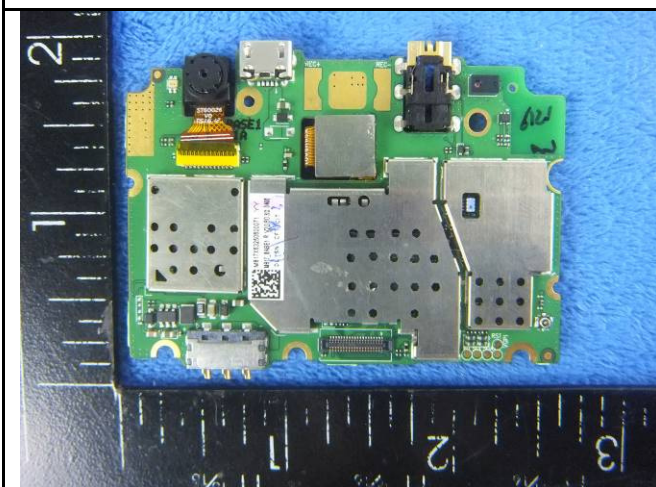
Cover Off - Top View 2



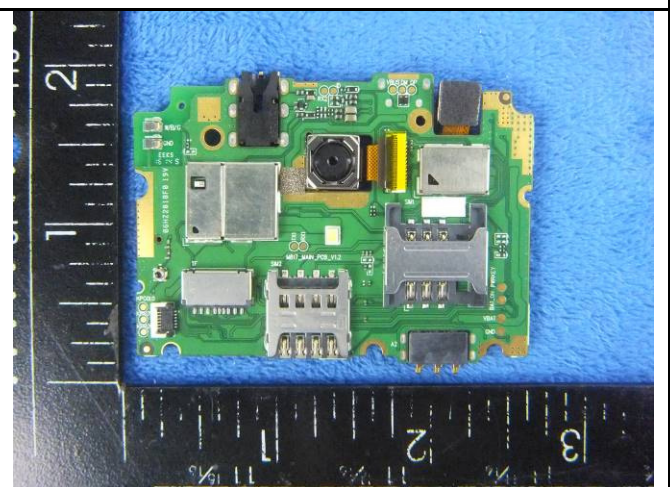
Battery - Front View



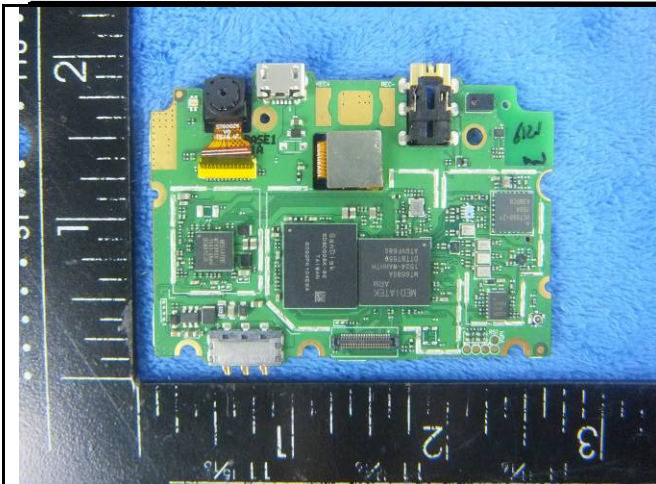
Battery - Rear View



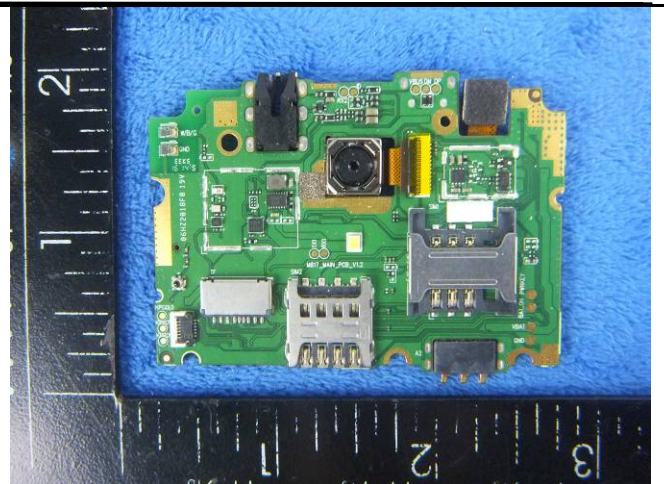
Mainboard with Shielding - Front View



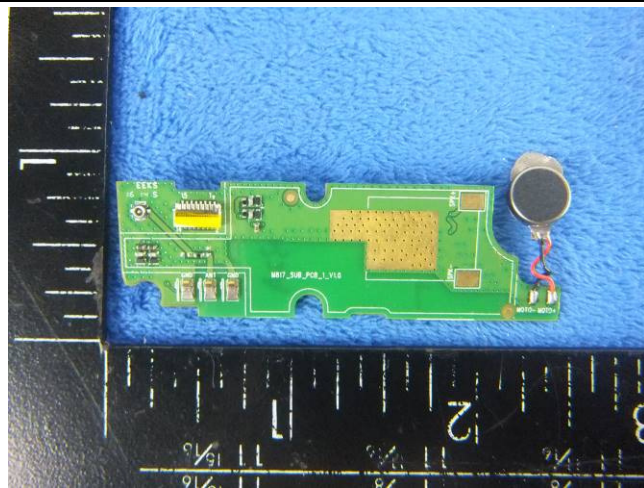
Mainboard with Shielding - Rear View



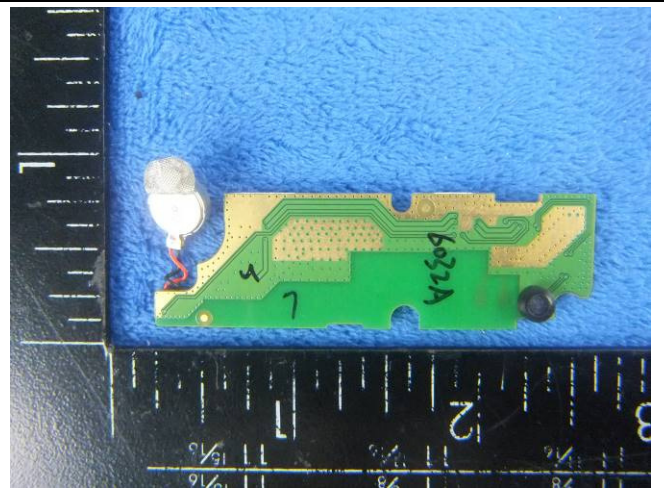
Mainboard without Shielding - Front View



Mainboard without Shielding - Rear View



Small Mainboard - Front View



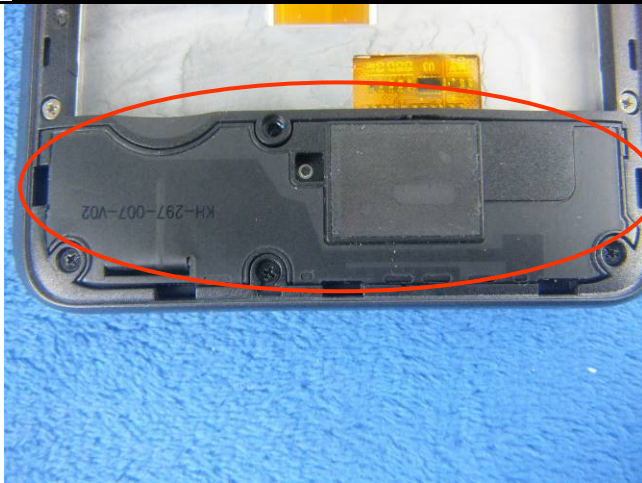
Small Mainboard - Front View



LCD - Front View



LCD - Rear View

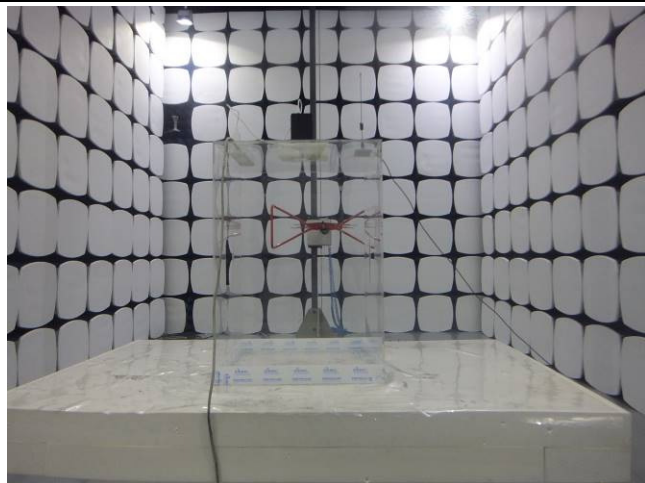


GSM/PCS/UMTS-FDD Antenna View

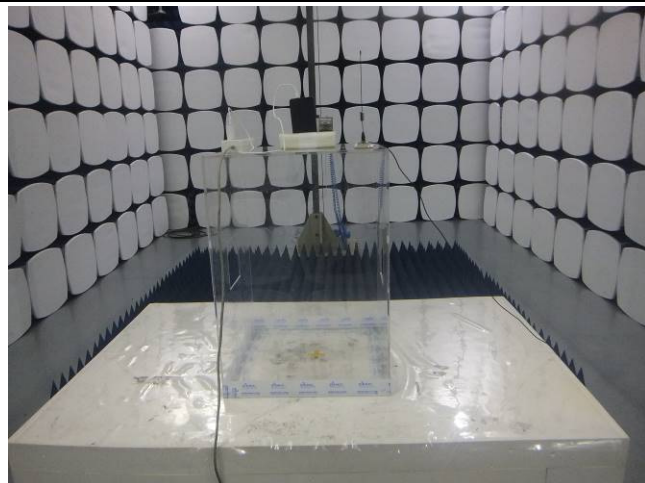


WIFI/BT/BLE/GPS - Antenna View

Annex B.iii. Photograph: Test Setup Photo



Radiated Spurious Emissions Test Setup Below 1GHz

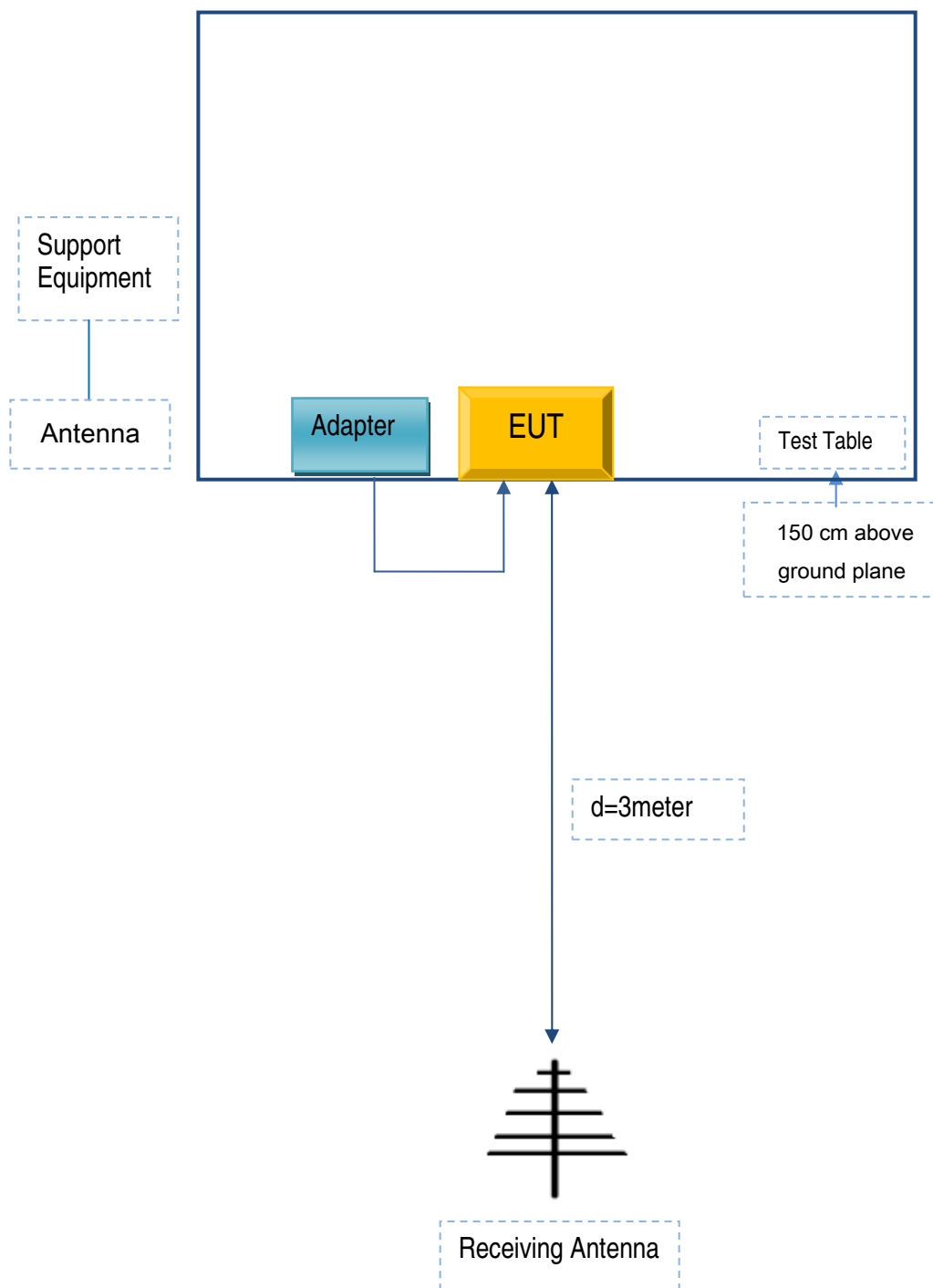


Radiated Spurious Emissions Test Setup Above
1GHz

Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

Block Configuration Diagram for Radiated Emissions



Annex C. ii. 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	A98A-050100U-US1	Y11243563

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	Y11243563

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Annex C.ii. EUT OPERATING CONKITIONS

N/A

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

N/A

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Annex E. DECLARATION OF SIMILARITY

N/A