





# **TEST REPORT**

EUT Description Convertible PC

Brand Name HP

Model Name HSC-I001R

FCC/IC ID FCC ID: B94HCI01RPD / IC ID: 466X- B94HCI01RPD

Date of Test Start/End 2020-07-16 / 2020-07-20

Features WWAN (LTE, UMTS) (see section 5)

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Reference Standards

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FCC CFR Title 47 Part 2, 22, 24, 27, 90, 96

RSS-Gen issue 5 A1, RSS 130 issue 2, RSS 132 issue 3, RSS 133 issue 6 A1,

RSS 140 issue 1, RSS 139 issue 3, RSS-192 issue 4, RSS-195 issue 2, RSS

199 issue 3, RSS 197 issue 1

(see section 1)

Test Report identification 210526-01.TR06

Rev. 00

Revision Control This test report revision replaces any previous test report revision

(see section 8)

The test results relate only to the samples tested.

Reference to accreditation shall be used only by full reproduction of test report.

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#### 1. Standards, reference documents and applicable test methods

FCC 68	1. FCC Title 47 CFR part 2 - Subpart J - Equipment Authorization Procedures. 2019-10-01 Edition 2. FCC Title 47 CFR part 22 - Subpart H - Cellular Radiotelephone Service. 2019-10-01 Edition 3. FCC Title 47 CFR part 24 - Subpart E - Broadband PCS. 2019-10-01 Edition 4. FCC Title 47 CFR part 27 - Subpart C - Technical Standards. 2019-10-01 Edition 5. FCC Title 47 CFR part 27 - Subpart L - 1695-1710, 1710-1755 MHz, 1755-1780 MHz, 2110-2155 MHz, 2155-2180 MHz, 2180-2200 MHz Bands. 2019-10-01 Edition 6. FCC Title 47 CFR Part 90 - Subpart R - Regulations governing the licensing and use of frequencies in the 763-775 and 793-805 MHz bands. 2019-10-01 Edition 7. FCC Title 47 CFR Part 90 - Subpart S - Regulations governing licensing and use of frequencies in the 806-824, 851-869, 896-901, and 935-940 MHz bands. 2019-10-01 Edition 7. FCC Title 47 CFR Part 96 - Subpart E - Technical rules. 2019-10-01 Edition 7. FCC OET KDB 971168 D01 v03r01 Measurement guidance for certification of licensed digital transmitters. 7. FCC OET KDB 842590 D01 v01r01 Upper Microwave Flexible Use Service. 7. C63.26-2015 - IEEE/ANSI Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
1 SED 8 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	I. ISED RSS-Gen issue 5 A1 - General Requirements for Compliance of Radio Apparatus.  ISED RSS-130 issue 2 - Equipment Operating in the Frequency Bands 617-652 MHz, 663-698 MHz, 698-756 MHz and 777-787 MHz  ISED RSS 132 issue 3 - Cellular Telephone Systems Operating in the Bands 824-849 MHz and 869-894 MHz  ISED RSS 133 issue 6 A1 - 2 GHz Personal Communications Services.  ISED SRSP-510 — Technical Requirements for Personal Communications Services (PCS) in the Bands 1850-1915 MHz and 1930-1995 MHz  ISED RSS 139 issue 3 - Advanced Wireless Services (AWS) Equipment Operating in the Bands 1710-1780 MHz and 2110-2180 MHz  ISED RSS-140 issue 1 - Equipment Operating in the Public Safety Broadband Frequency Bands 758-768 MHz and 788-798 MHz  ISED RSS-192 issue 4 - Flexible Use Broadband Equipment Operating in the Band 3450-3650 MHz  ISED RSS-195 issue 2 - Wireless Communication Service (WCS) Equipment Operating in the Bands 2305-2320 MHz and 2345-2360 MHz  ISED RSS-199 issue 3 - Broadband Radio Services (BRS) Equipment Operating in the Bands 2500-2690 MHz  ISED RSS-197 issue 1 - Wireless Broadband Access Equipment Operating in the Band 3650-3700 MHz  FCC OET KDB 971168 D01 v03r01 Measurement guidance for certification of licensed digital transmitters.  FCC OET KDB 842590 D01 v01r01 Upper Microwave Flexible Use Service.  C63.26-2015 - IEEE/ANSI Standard for Compliance Testing of Transmitters Used in Licensed Radio Services C63.4-2014 - American National Standard for Methods of measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz.

#### 2. General conditions, competences and guarantees

- ✓ Tests performed under FCC standards identified in section 1 are covered by A2LA accreditation.
- ✓ Tests performed under ISED standards identified in section 1 are covered by Cofrac accreditation.
- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is an ISO/IEC 17025:2017 laboratory accredited by the American Association for Laboratory Accreditation (A2LA) with the certificate number 3478.01.
- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is an Accredited Test Firm recognized by the FCC, with Designation Number FR0011.
- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is an ISO/IEC 17025:2017 testing laboratory accredited by the French Committee for Accreditation (Cofrac) with the certificate number 1-6736.
- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is a Registered Test Site listed by ISED, with ISED #1000Y.
- ✓ Intel WRF Lab declines any responsibility with respect to the identified information provided by the customer and that may affect the validity of results.
- ✓ Intel WRF Lab only provides testing services and is committed to providing reliable, unbiased test results and interpretations.
- ✓ Intel WRF Lab is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.
- ✓ Intel WRF Lab has developed calibration and proficiency programs for its measurement equipment to ensure correlated and reliable results to its customers.
- ✓ This report is only referred to the item that has undergone the test.
- ✓ This report does not imply an approval of the product by the Certification Bodies or competent Authorities.



# 3. Environmental Conditions

✓ At the site where the measurements were performed the following limits were not exceeded during the tests:

Temperature	24.9°C ± 1.6°C
Humidity	49.3% ± 2.3%



# 4. Test samples

Sample	Control #	Description	Model	Serial #	Date of receipt	Note
#01	210526-01.S12	Convertible PC WLAN+WWAN SKU 3	HSC-I001R	00017602JT	2021-06-01	N/A

### 5. EUT Features

The herein information is provided by the customer

Brand Name	HP	HP								
Model Name	HSC-I001R	HSC-I001R								
Software Version	RD Tool V1	RD Tool V1.0.3.5								
Driver Version	10.0.19041	.662								
Prototype / Production	Production									
	Mode	Bands Supported Tx Mode					le			
				WCDN	ИΑ	HSDPA			DC- HSDPA	
		FDD II (1850.0 – 1	910.0 MHz)	✓		✓	✓		✓	
	WCDMA /	FDD IV (1710.0 –	1755.0 MHz)	✓		✓	HSDPA HSDPA HSDPA	✓		
	HSPA+	FDD V (824.0 – 8	349.0 MHz)	✓		✓	✓		✓	
		FDD VIII (880.0 –	915.0 MHz)	✓						
	Mode	Bands		Suppo	rted Chann	el Bandw	idth (N	IHz)		
				1.4	3				20	
		Band 2 (1850.0 - 1910.0 MHz)		✓	✓				✓	
Currented Dedice		Band 4 (1710.0 – 1755.0 MHz)		✓	✓	✓	✓	✓	✓	
Supported Radios		Band 5 (824.0 – 849.0 MHz)		✓	✓					
		Band 7 (2500.0 – 2570.0 MHz)				✓	✓	✓	✓	
	LTE FDD	Band 12 (699.0 – 716.0 MHz)		✓	✓	✓	✓			
		Band 13 (777.0 – 787.0 MHz)								
		Band 17 (704.0 – 716.0 MHz)								
		Band 26 (814.0 – 849.0 MHz)		✓	✓			✓		
		Band 30 (2305.0 – 2315.0 MHz)								
		Band 66 (1710.0 -		✓	✓					
	LTE TDD	Band 38 (2570.0 -	,							
		Band 41 (2496.0 –	2690.0 MHz)			✓	✓	✓	✓	
	Transmitter		Main			Aux				
	Manufacture	r	AWAN			1AWA	AWAN			
Antenna Information	Antenna type	)	PIFA			PIFA	PIFA			
	Part number		AUP6Y 100103 6036B0293001			O1 AML6	AML6Y 100111 6036B0293101			
	Maximum pe	ak gain (dBi)	+2.30			+2.30	+2.30			





#### 6. Remarks and comments

- 1. No deviations were made from the test methods listed in section 1 of this report
- 2. The smallest bandwidth and 1 RB offset 0 were selected in order to guarantee the worst case in terms of power density.
- 3. The DUT has different SKU but the WWAN module, antennas, and the rated output power remain the same. Tests were performed only on SKU3.



# 7. Test Verdicts summary

The statement of conformity to applicable standards in the table below are based on the measured values, without taking into account the measurement uncertainties.

Band	FCC part	RSS part	Test name	Verdict
WCDMA II	24.238, 2.1053	133-ch 6.5.1	Tx Radiated spurious emission	Р
WCDMA IV	27.53 (h), 2.1053	139-ch.6.5	Tx Radiated spurious emission	Р
WCDMA V	22.917, 2.1053	132-ch.5.5	Tx Radiated spurious emission	Р
LTE 2	24.238, 2.1053	133-ch 6.5.1	Tx Radiated spurious emission	Р
LTE 5	22.917, 2.1053	132-ch.5.5	Tx Radiated spurious emission	Р
LTE 13	27.53 (g)(f), 2.1053	130-ch.4.7	Tx Radiated spurious emission	Р
LTE 26	90.691, 22.917, 2.1053	132-ch.5.5	Tx Radiated spurious emission	Р
LTE 30	27.53 (a)(4), 2.1053	195- ch.5.6.2	Tx Radiated spurious emission	Р
LTE 41	27.53 (m), 2.1053	199-ch.4.5	Tx Radiated spurious emission	Р

P: Pass

F: Fail NM: Not Measured NA: Not Applicable

# 8. Document Revision History

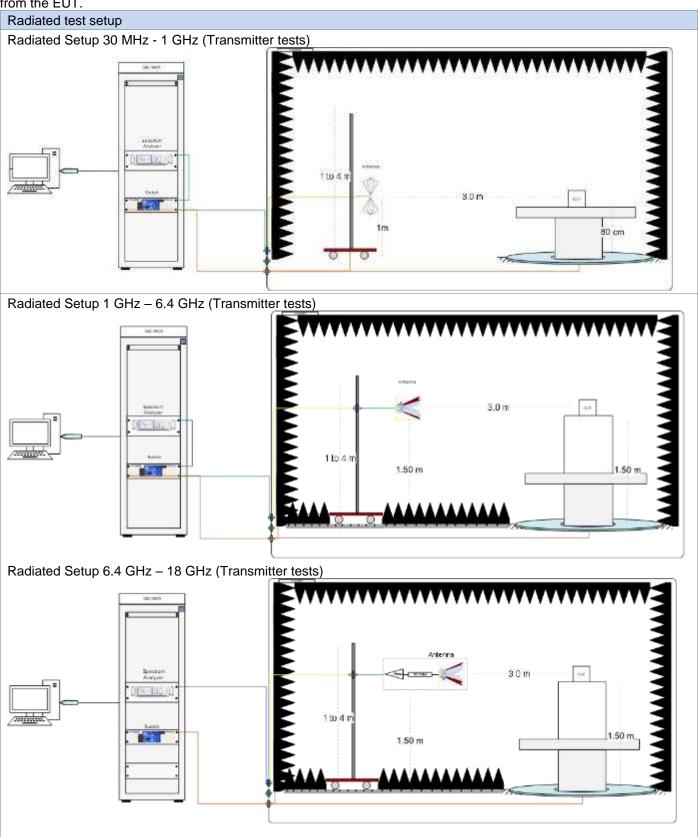
Revision #	Modified by	Revision Details
Rev. 00	N.Bui	First Issue

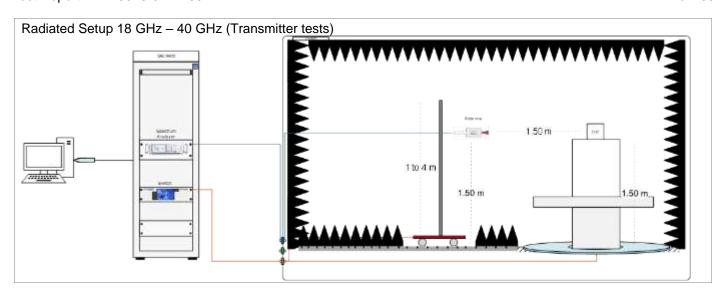


# Annex A. Test & System Description

#### A.1 Measurement System

Measurements were performed using the following setups. A communication tester was used to establish a communication link with the EUT, and the communication tester parameters were set to get the maximum output power from the EUT.





### Sample Calculation

The spurious received power P at the spectrum Analyzer is converted to EIRP the equivalent isotropically radiated power, in dBm using the transducer factor F corresponding to the Rx path Loss:

 $F (dB) = Free \ Space \ Attenuation \ (dB) + Cable \ losses \ (dB) - Amplifiers \ Gain \ (dB) - Rx \ Antenna \ Gain \ (dBi) \\ EIRP \ (dBm) = P(dBm) + F \ (dB)$ 

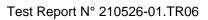


# A.2 Test Equipment List

# A.2.1 Radiated Setup

Radiated Setup #1

ID#	Device	Type/Model	Serial #	Manufacturer	Cal. Date	Cal. Due Date
006-008	Measurement Software v10.40.10	EMC32	100623	Rohde & Schwarz	N/A	N/A
147-000	Spectrum analyzer	FSW43	101847	Rohde & Schwarz	2020-11-02	2022-11-02
006-000	Anechoic chamber	FACT 3	5720	ETS Lindgren	2020-07-01	2022-07-01
006-002	Switch & Positioning	EMC center	00159757	ETS Lindgren	N/A	N/A
006-011	Boresight antenna mast	BAM4.0-P	P/278/2890.01	Maturo	N/A	N/A
006-003	Multi axis Positioning	2116CR-5905	00153265	ETS Lindgren	N/A	N/A
056-000	Double Ridged Horn Antenna 1 GHz – 18 GHz	3117	00157736	ETS Lindgren	2020-04-01	2022-04-01
007-008	Double Horn Ridged antenna	3116C-PA	00169308bis + 00196308 +	ETS-Lindgren	2019-07-24	2021-07-24
006-023	Conical log spiral antenna	3102	00154400	ETS Lindgren	NA	NA
006-019	BiConical antenna 25 MHz – 1 GHz	UBAA9115+BBVU 9135+DGA9552N	0286+CH 9044	Schwarzbeck	2019-11-22	2021-11-22
006-020	Double Ridged Horn Antenna 1 GHz – 18 GHz	3117	00157734	ETS Lindgren	2019-08-12	2021-08-12
006-052	RF Cable 7.5m	0501051057000G X	19.35.850	Radiall	2021-02-24	2021-08-24
006-051	RF Cable 1.0m	CBL-1.5M-SMSM+	202879	Mini-Circuits	2021-02-25	2021-08-25
006-030	RF Cable 1.2m	UFA147A-0-0480- 200200	MFR 64639223720- 003	Micro-coax	2021-02-15	2021-08-15
006-033	RF Cable 2.5m	UFA147A-0-1380- 50U200	MFR 64639223219- 001	Micro-coax	2021-02-24	2021-08-24
006-034	RF Cable 1.0m	UFA147A	-	Utilflex	2021-02-19	2021-08-19
006-036	RF Cable 1.0m	UFB311A-0-0590- 50U50U	MFR 64639 223230-001	Micro-coax	2021-02-24	2021-08-24
006-038	RF Cable 7.0m	R286304009	-	Radiall	2021-02-15	2021-08-15
006-039	RF Cable 2.5m	0500990992500K E	19.23.395	Radiall	2021-02-24	2021-08-24
365-000	Temperature & Humidity logger	RA12E-TH1-RAS	00-80-A3-E1-6E-55	Avtech	2021-03-08	2023-03-08
179-000	Communication tester	CMW500	163104	Rohde & Schwarz	N/A	N/A





Radiated Setup #2

Radiated	Setup #2		•		1	•
ID#	Device	Type/Model	Serial #	Manufacturer	Cal. Date	Cal. Due Date
007-000	Anechoic chamber	RFD-FA-100	5996	ETS Lindgren	2020-07-06	2022-07-06
007-002	Turntable	-	-	ETS Lindgren	N/A	N/A
007-003	Antenna Tower	2171B-3.0M	00150123	ETS Lindgren	N/A	N/A
007-006	Switch & Positioner	EMCenter	00151232	ETS Lindgren	N/A	N/A
007-005	Measurement SW, V11.20.00	EMC32	100401	Rohde & Schwarz	N/A	N/A
127-000	Spectrum Analyzer	FSV40	101358	Rohde & Schwarz	2021-01-15	2023-01-15
007-030	Horn Antenna 1-18GHz	3115	9911-5967	Emco	NA	NA
007-007	Double Ridge Horn (1- 18GHz)	3117	00152266	ETS Lindgren	2020-03-18	2022-03-18
056-000	Horn Antenna 3117 + Amplifier + HPF6.4	3117	00157736	ETS-Lindgren	2020-04-01	2022-04-01
007-008	Double Horn Ridged antenna	3116C-PA	00169308bis + 00196308	ETS-Lindgren	2019-07-24	2021-07-24
007-022	RF Cable 1-18GHz, 1.5m	0501050991200GX	19.23.493	Radiall	2021-02-14	2021-08-14
007-020	RF Cable 1-18GHz, 1.2 m	2301761761200PJ	12.22.1104	Radiall	2021-02-14	2021-08-14
007-011	RF Cable 1-18GHz – 6.5m	140-8500-11-51	001	Spectrum	2021-02-14	2021-08-14
007-015	RF Cable 1GHz-18GHz 1.5m	-	-	Spirent	2021-02-15	2021-08-15
007-014	RF Cable 18-40 GHz 6m	R286304009	1747364	Radiall	2021-02-14	2021-08-14
007-023	RF Cable 1m DC- 40GHz	PE360-100CM	-	Pasternack	2021-02-16	2021-08-16
007-018	RF Cable 1-9.5GHz 1.2m	0500990991200KE	-	Radiall	2021-02-15	2021-08-15
256-000	RF Cable 18GHz	UFB311A-0-0590- 50U50U	MFR 64639 223230-002	Micro-Coax	N/A	N/A
145-000	Temp & Humidity Logger	RA12E-TH1-RAS	RA12-B89BE3	Avtech	2020-01-22	2022-01-22



# A.3 Measurement Uncertainty Evaluation

The system uncertainty evaluation is shown in the table below with a coverage factor of k = 2 to indicate a 95% level of confidence:

Measurement type	Uncertainty	Unit
Tx Radiated test < 1GHz	± 5.99	dB
Tx Radiated test 1GHz - 40 GHz	± 5.85	dB



# Annex B. Test Results

The herein test results were performed by:

Test case measurement	Test Personnel
Tx spurious emissions	N.Bui

# B.1 Radiated spurious emission

#### **B.1.1 Standard references**

Band	FCC part	RSS Part	FCC Limit	IC Limit		
WCDMA II LTE 2	24.238, 2.1053	133-ch 6.5.1	The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB	(ii) After the first 1.0 MHz, the emission power in any 1 MHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least 43 + 10 log10 p (watts). If the measurement is performed using 1% of the emission bandwidth, power integration over 1 MHz is required.		
WCDMA IV	27.53 (h), 2.1053	139-ch.6.5	The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB	(ii) After the first 1.0 MHz outside the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least 43 + 10 log10 p (watts) dB.		
WCDMA V LTE 5 LTE 26	22.917, 2.1053 90.691, 22.917, 2.1053	132-ch.5.5	The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB	(ii) After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least 43 + 10 log10 p (watts). If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.		
				The power of any emission outside a licensee's frequency block shall be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.		
			The power of any emission outside a licensee's frequency block shall be attenuated below the	In addition, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:		
LTE 13	27.53 (g)(f), 2.1053	130-ch.4.7	transmitting power (P) by a factor of at least 43 + 10 log(P) dB. For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70	MHz, bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power P (dBW), by at least:		
			dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz	(i) 76 + 10 log10 p (watts), dB, for base and fixed equipment, and		
			bandwidth.	(ii) 65 + 10 log10 p (watts), dB, for mobile and portable equipment.		
				b) The e.i.r.p. in the band 1559-1610 MHz shall not exceed -70 dBW/MHz for wideband signal and -80 dBW for discrete emission with bandwidth less than 700 Hz.		
			By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and	Frequency (MHz) Attenuation (dB)		
			on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation,	<2200 43 + 10 log10(p)		
			not less than 55 + 10 log (P) dB on all frequencies	2200 - 2288 70 + 10 log10(p) 2288 - 2292 67 + 10 log10(p)		
			between 2320 and 2324 MHz and on all	2292 - 2296 61 + 10 log10(p)		
			frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between	2296 - 2300 55 + 10 log10(p)		
	27.53		2324 and 2328 MHz and on all frequencies	2300 - 2305		
LTE 30	(a)(4),	195 ch.5.6.2	between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328	2320 - 2324 55 + 10 log10(p)		
	2.1053	311.0.0.2	and 2337 MHz;	2324 - 2328 61 + 10 log10(p) 2328 - 2337 67 + 10 log10(p)		
			(ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz,	2328 - 2337 67 + 10 log10(p) 2337 - 2341 61 + 10 log10(p)		
			on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296	2341 - 2345 55 + 10 log10(p)		
			and 2300 MHz, 61 + 10 log (P) dB on all	2345 - 2360		
			frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and	2360 - 2365		
			2292 MHz, and 70 + 10 log (P) dB below 2288	>2395 43 + 10 log10(p)		
			MHz;			



		(iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.	
27.53 (m), LTE 41 2.1053	199-ch.4.5	For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz.	for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:  (i) 40 + 10 log10 p from the channel edges to 5 MHz away (ii) 43 + 10 log10 p between 5 MHz and X MHz from the channel edges, and (iii) 55 + 10 log10 p at X MHz and beyond from the channel edges In addition, the attenuation shall not be less than 43 + 10 log10 p on all frequencies between 2490.5 MHz and 2496 MHz, and 55 + 10 log10 p at or below 2490.5 MHz.

#### B.1.2 **Test procedure**

The setup described in Test & System Description section was used to measure the radiated spurious emissions. Depending of the frequency range and bands being tested, different antennas and filters were used.

The final measurement is done by varying the antenna height from 1 to 4 meters, the EUT azimuth over 360° and for

both Vertical and Horizontal polarizations.



#### **B.1.3** Test Results

#### WCDMA 2

## 30 MHz to 26.5 GHz - Radiated Spurious WCDMA 2- QPSK - Low channel – 1852.4 MHz BW 5 MHz

Frequency	RMS	Limit	Margin
MHz	dBm	dBm	dB
959.9	-55.2	-13.0	42.2
3317.0	-37.8	-13.0	24.8
3706.1	-49.2	-13.0	36.2
7404.8	-48.9	-13.0	35.9
17158.1	-37.9	-13.0	24.9
18422.2	-59.5	-13.0	46.5

#### WCDMA 4

## 30 MHz to 18GHz - Radiated Spurious WCDMA 4- QPSK - Mid channel – 1732.5 MHz BW 5 MHz

Frequency	RMS	Limit	Margin
MHz	dBm	dBm	dB
969.3	-54.8	-13.0	41.8
3353.0	-38.1	-13.0	25.1
3466.2	-45.7	-13.0	32.7
6929.3	-46.3	-13.0	33.3
10400.2	-44.4	-13.0	31.4
17117.2	-38.2	-13.0	25.2



#### WCDMA 5

## 30 MHz to 18 GHz - Radiated Spurious WCDMA 5- QPSK - Mid channel – 836.5 MHz BW 5 MHz

Frequency	RMS	Limit	Margin
MHz	dBm	dBm	dB
991.6	-39.9	-13.0	26.9
1680.5	-55.9	-13.0	42.9
2107.5	-55.4	-13.0	42.4
2506.5	-36.7	-13.0	23.7
4281.0	-54.4	-13.0	41.4
6959.0	-50.3	-13.0	37.3

#### LTE 2

# 30MHz to 26.5GHz - Radiated Spurious LTE 2- QPSK - High channel - 1909.3 MHz BW 1.4 MHz- RB 1-offset 0

Frequency	RMS	Limit	Margin
MHz	dBm	dBm	dB
986.9	-54.1	-13.0	41.1
3813.2	-49.9	-13.0	36.9
5720.4	-42.1	-13.0	29.1
7627.2	-48.6	-13.0	35.6
16360.4	-38.0	-13.0	25.0
18992.1	-60.2	-13.0	47.2



#### <u>LTE 5</u>

## 30MHz to 18GHz - Radiated Spurious LTE 5- QPSK – Mid channel – 836.5 MHz BW 1.4 MHz– RB 1 RB 1-offset 0

Frequency	RMS	Limit	Margin
MHz	dBm	dBm	dB
958.4	-41.0	-13.0	28.0
1672.5	-53.9	-13.0	40.9
2105.5	-56.0	-13.0	43.0
2509.5	-51.8	-13.0	38.8
6916.0	-50.2	-13.0	37.2
7796.5	-49.0	-13.0	36.0

#### LTE 13

## 30MHz to 18GHz - Radiated Spurious LTE 13 - QPSK - Mid channel - 782 MHz BW 5 MHz- RB 1-offset 0

Frequency	RMS	Limit	Margin
MHz	dBm	dBm	dB
974.6	-40.5	-13.0	27.5
1546.0	-55.7	-13.0	42.7
1559.5	-50.8	-40.0	10.8
2339.5	-42.2	-13.0	29.2
3899.5	-54.5	-13.0	41.5
7030.5	-47.6	-13.0	34.6

#### **LTE 26**

## 30MHz to 18GHz - Radiated Spurious LTE 26 - QPSK - Mid channel - 831.5 MHz BW 1.4 MHz- RB 1-offset 0

Frequency	RMS	Limit	Margin
MHz	dBm	dBm	dB
960.8	-40.9	-13.0	27.9
1662.0	-52.7	-13.0	39.7
2081.0	-56.2	-13.0	43.2
2493.0	-37.6	-13.0	24.6
4155.5	-53.8	-13.0	40.8
7030.5	-47.5	-13.0	34.5



#### **LTE 30**

# 30MHz to 26.5GHz - Radiated Spurious LTE 30 - QPSK - Mid channel – 2310 MHz BW 5 MHz– RB 1-offset 0

Frequency	RMS	Limit	Margin
MHz	dBm	dBm	dB
969.4	-55.3	-40.0	15.3
4615.5	-45.9	-40.0	5.9
6923.5	-55.5	-40.0	15.5
9231.4	-50.3	-40.0	10.3
13847.2	-46.4	-40.0	6.4
22562.6	-57.5	-40.0	17.5

#### LTE 41

# 30MHz to 40GHz - Radiated Spurious LTE 41 - QPSK - Mid channel – 2687.5 MHz BW 5 MHz– RB 1-offset 0

Frequency	RMS	Limit	Margin
MHz	dBm	dBm	dB
958.7	-54.8	-25.0	29.8
5371.0	-47.9	-25.0	22.9
8055.5	-48.6	-25.0	23.6
13426.5	-43.2	-25.0	18.2
17573.5	-37.5	-25.0	12.5
25024.0	-58.6	-25.0	33.6