



CFR 47 FCC PART 22 H CFR 47 FCC PART 24 E CFR 47 FCC PART 27

TEST REPORT

For

Smart POS

MODEL NUMBER: D60

FCC ID: 2AGQ6-D60

REPORT NUMBER: 4790950508-1-RF-7

ISSUE DATE: October 22, 2023

Prepared for

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Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	October 22, 2023	Initial Issue	\

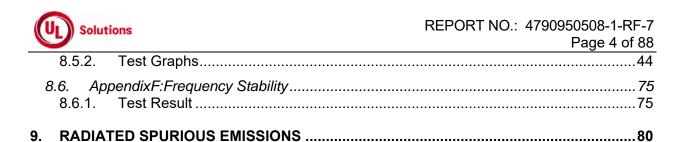
Note:

- 1. This test report is only published to and used by the applicant, and it is not for evidence purpose in China.
- 2. The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 22 H >< CFR 47 FCC PART 24 E>< CFR 47 FCC PART 27> when < Simple Acceptance > decision rule is applied.



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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Dspread Technology (Beijing) Inc

Address: Rm.407, B12C, #10(Universal Business Park), Jiuxiangiao

Road, Chaoyang District, Beijing, 100015, China

Manufacturer Information

Company Name: Dspread Technology (Beijing) Inc

Address: Rm.407, B12C, #10(Universal Business Park), Jiuxianqiao

Road, Chaoyang District, Beijing, 100015, China

EUT Information

EUT Name: Smart POS

Model: D60

Sample Received Date: August 2, 2023

Sample Status: Normal Sample ID: 6327587

Date of Tested: August 12, 2023 to October 12, 2023

APPLICABLE STANDARDS					
STANDARD	TEST RESULTS				
CFR 47 FCC PART 22 H	PASS				
CFR 47 FCC PART 24 E	PASS				
CFR 47 FCC PART 27	PASS				

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Checked By:

Senior Project Engineer

Approved By:

Stephen Guo

Operations Manager



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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.26-2015, 971168 D01 Power Meas License Digital Systems v03r01, 971168 D02 Misc Rev Approv License Devices v02r01, 412172 D01 v01r01 Determining ERP and EIRP, CFR 47 FCC Part 2, Part 22 H, Part 24 E, Part 27.

3. FACILITIES AND ACCREDITATION

	A2LA (Certificate No.: 4102.01)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	has been assessed and proved to be in compliance with A2LA.
	FCC (FCC Designation No.: CN1187)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	Has been recognized to perform compliance testing on equipment subject
	to the Commission's Delcaration of Conformity (DoC) and Certification
	rules
	ISED (Company No.: 21320)
Accreditation	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
Certificate	has been registered and fully described in a report filed with ISED.
	The Company Number is 21320 and the test lab Conformity Assessment
	Body Identifier (CABID) is CN0046.
	VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	has been assessed and proved to be in compliance with VCCI, the
	Membership No. is 3793.
	Facility Name:
	Chamber D, the VCCI registration No. is G-20019 and R-20004
	Shielding Room B , the VCCI registration No. is C-20012 and T-20011

Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3: For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.



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4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognize national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Conduction emission	3.62 dB
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB
	5.78 dB (1 GHz-18 GHz)
Radiated Emission (Included Fundamental Emission) (1 GHz to 40 GHz)	5.23dB (18 GHz-26 GHz)
	5.64 dB (26 GHz-40 GHz)
Bandwidth	1.1 %

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of k=2.



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5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	Smart POS
Model	D60

TEST CHANNEL CONFIGURATION 5.2.

Band	Mode	Low	Middle	High
WCDMA Band 2	HSDPA/HSUPA	9262	9400	9538
WCDIVIA Ballu Z	HOUPA/HOUPA	1852.4 MHz	1880.0 MHz	1907.6 MHz
WCDMA Band 4	HSDPA/HSUPA	1312	1413	1513
WCDIVIA Barid 4		1712.4 MHz	1732.6 MHz	1752.6 MHz
WCDMA Band 5	HSDPA/HSUPA	4132	4182	4233
WCDIVIA Ballu 5	NSDFA/NSUFA	826.4 MHz	836.4 MHz	846.6 MHz

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5.3. MAXIMUM ERP/EIRP POWER AND EMISSION DESIGNATOR

WCDMA Band2

Part 24		_				
EIRP Limit(W) 2.0						
Antenna Gain (dBi)	1.19					
Mode		Frequency Range (MHz)	Conducted Average power (dBm)	EIRP (W)	99% OBW (MHz)	Emission Designator
REL. 99			21.41	0.182	4.187	4M19F9W
HSDPA		1852.4 ~ 1907.6	20.43	0.145	4.196	4M20F9W
HSUPA			20.39	0.144	4.183	4M18F9W

WCDMA Band4

Part 27						
EIRP Limit(W)	1.0					
Antenna Gain (dBi)	0.53					
Mode		Frequency Range (MHz)	Conducted Average power (dBm)	EIRP (W)	99% OBW (MHz)	Emission Designator
REL. 99			21.55	0.161	4.185	4M19F9W
HSDPA		1712.4 ~ 1752.6	20.55	0.128	4.188	4M19F9W
HSUPA			20.68	0.132	4.187	4M19F9W

WCDMA Band5

Part 22		_				
ERP Limit(W)	7.0					
Antenna Gain (dBi)	-0.23					
Mode		Frequency Range (MHz)	Conducted Average power (dBm)	ERP (W)	99% OBW (MHz)	Emission Designator
REL. 99			22.21	0.096	4.185	4M19F9W
HSDPA		826.4 ~ 846.6	21.27	0.077	4.183	4M18F9W
HSUPA			21.27	0.077	4.175	4M18F9W



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5.4. WORST-CASE CONFIGURATION AND MODE

The radiated spurious emissions measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT was investigated in three orthogonal orientations X, Y and Z. It was determined that X orientation was the worst-case orientation.

Radiated spurious emissions were investigated below 30 MHz, 30 MHz - 1 GHz and above 1 GHz. There were no emissions found on below 1GHz and above 18 GHz, the emissions between 1 GHz – 18 GHz were tested at the low, mid, high channel and the worst configuration. Only the worst result is reported.



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5.5. DESCRIPTION OF AVAILABLE ANTENNAS

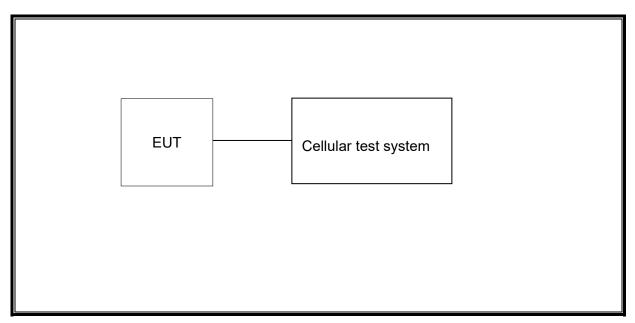
Antenna	Band	Antenna Type	MAX Antenna Gain (dBi)
Main	WCDMA Band 2	FPC	1.19
Main	WCDMA Band 4	FPC	0.53
Main	WCDMA Band 5	FPC	-0.23

Band	Transmit and Receive Mode	Description
WCDMA Band 2	⊠1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
WCDMA Band 4	⊠1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
WCDMA Band 5	⊠1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna

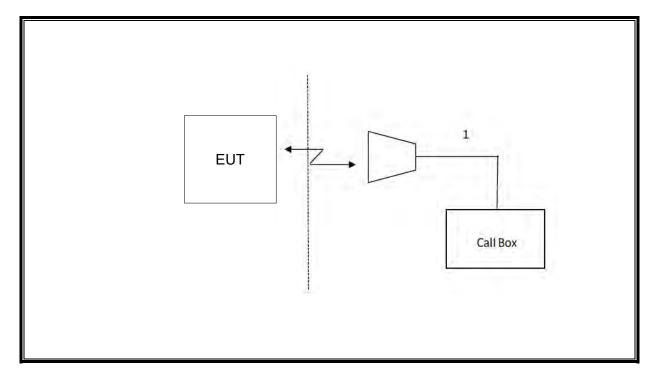
Note: The value of the antenna gain was declared by customer.

5.6. DESCRIPTION OF TEST SETUP

Conducted



Radiated





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MEASURING INSTRUMENT AND SOFTWARE USED

<u>6. M</u>	6. MEASURING INSTRUMENT AND SOFTWARE USED								
Antenna Terminal Test									
			Inst	rument	t				
Used	Equipment	Manufacturer	Mod	lel No.	Se	Serial No.		Last Cal.	Next Cal.
V	Spectrum Analyzer	R&S	FS	SV40	S42	206	0001	Oct.17, 2022	Oct.16, 2023
V	Wideband Radio Communication Tester	R&S	CM	W500	1	555	23	Oct.17, 2022	Oct.16, 2023
\checkmark	DC Power Supply	Array	36	62A	A1	512	015	Oct.17, 2022	Oct.16, 2023
			So	ftware					
Used	Descript	tion	Mai	nufactu	rer		1	Name	Version
V	Tonsend Cellular	Test System	Т	onsen	t	JS		RF Auto Test system	3.1.46
	Radiated Test								
			Inst	rument	t				
Used	Equipment	Manufacturer	Mod	lel No.	Serial No.		No.	Last Cal.	Next Cal.
V	MXE EMI Receiver	KESIGHT	N9	038A	MY56400036		0036	Oct.17, 2022	Oct.16, 2023
V	Hybrid Log Periodic Antenna	TDK		LP- 03C	1	130959		Aug.02, 2021	Aug.01, 2024
V	Preamplifier	HP	84	47D	294	4A0	9099	Oct.17, 2022	Oct.16, 2023
V	EMI Measurement Receiver	R&S	ES	SR26	1	013	77	Oct.17, 2022	Oct.16, 2023
V	Horn Antenna	TDK	HRN	N-0118	1	309	40	July 20, 2021	July 19, 2024
V	Horn Antenna	Schwarzbeck		A9170		697		July 20, 2021	July 19, 2024
V	Preamplifier	TDK		\-02- 118	(RS-3	67	Oct.17, 2022	Oct.16, 2023
V	Preamplifier	TDK	PA	-02-2		RS-3		Oct.17, 2022	Oct.16, 2023
V	Loop antenna	Schwarzbeck	15	19B	(0000	08	Dec.14, 2021	Dec.13, 2024
V	High Pass Filter	Wi	27 30 18	KX10- 700- 000- 000- 0SS		23		Oct.17, 2022	Oct.16, 2023
			So	ftware					
Used	Descr	ription		Manuf	ufacturer			Name	Version
$\overline{\checkmark}$	Test Software for R	adiated disturba	ance	Fa	rad EZ-EMC Ver. UL-3.			Ver. UL-3A1	

Used	Description	Manufacturer	Name	Version
V	Test Software for Radiated disturbance	Farad	EZ-EMC	Ver. UL-3A1

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7. ANTENNA TERMINAL TEST RESULTS

7.1. EFFECTIVE (ISOTROPIC) RADIATED POWER OF TRANSMITTER

RULE PART(S)

FCC: §2.1046, §22.913, §24.232, §27.50

LIMITS

22.913(a) The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

24.232(c) Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.

27.50(c) Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP. 27.50(d) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watts EIRP.

27.50(h) Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13 dB.

TEST PROCEDURE

Refer to ANSI C63.26:2015 and KDB 971168 D01 Section 5.6

ERP/ EIRP = PMeas + GT - LC

where:

ERP or EIRP = effective or equivalent isotropically radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);

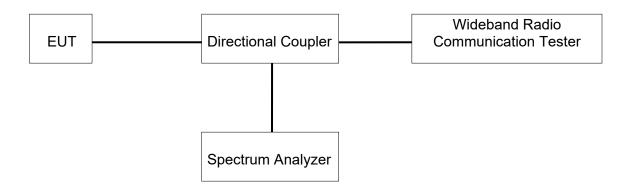
PMeas = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB

The transmitter has a maximum radiated ERP / EIRP output powers as follows:

TEST SETUP





TEST ENVIRONMENT

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Temperature	23.2°C	Relative Humidity	52.6%
Atmosphere Pressure	101kPa	Test Voltage	DC 7.2 V

RESULTS

Please refer to Appendix A.



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7.2. PEAK TO AVERAGE RADIO

LIMITS

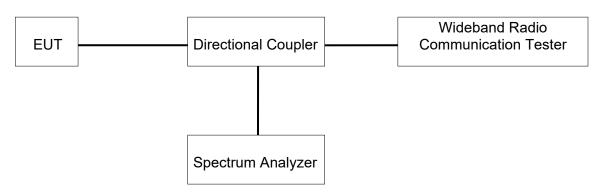
In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13 dB.

TEST PROCEDURE

Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01;

The transmitter output was connected to a CMW500 Test Set and configured to operate at maximum power. The PAR was measured on the Spectrum Analyzer.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.2°C	Relative Humidity	52.6%
Atmosphere Pressure	101kPa	Test Voltage	DC 7.2 V

RESULTS

Middle was used to measure as the worst case. The results from all CCDF plots are passed with 13dB peak-to-average power ratio criteria.

Please refer to Appendix B.



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7.3. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049

LIMITS

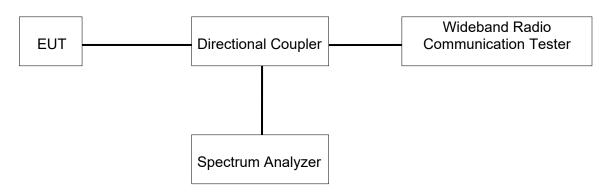
For reporting purposes only.

TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the low, middle and high channel in each band. The -26dB bandwidth was also measured and recorded.

(Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01)

TEST SETUP



TEST ENVIRONMENT

Temperature	23.2°C	Relative Humidity	52.6%
Atmosphere Pressure	101kPa	Test Voltage	DC 7.2 V

RESULTS

There is no limit required and power is the same for low, middle and high channel, therefore, only middle channel was tested.

Please refer to Appendix C.



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7.4. BAND EDGE EMISSIONS

RULE PART(S)

FCC §2.1051, §22.917, §24.238, §27.53

LIMITS

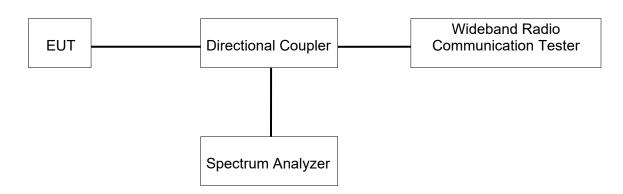
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.

TEST PROCEDURE

Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01 The transmitter output was connected to a CMW500 Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

- a) Set the RBW = 1 ~ 1.5 % of OBW (Typically limited to a minimum RBW of 1% of the OBW)
- b) Set VBW ≥ 3 × RBW;
- c) Set span ≥ 1.5 times the OBW;
- d) Sweep time = Auto;
- e) Detector = RMS;
- f) Ensure that the number of measurement points ≥ 2*Span/RBW;
- g) Trace mode = Average (100);

TEST SETUP



TEST ENVIRONMENT

Temperature	23.2°C	Relative Humidity	52.6%
Atmosphere Pressure	101kPa	Test Voltage	DC 7.2 V

RESULTS

Please refer to Appendix D.

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7.5. SPURIOUS EMISSION AT ANTENNA TERMINAL

RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238, §27.53

LIMITS

FCC: §22.901, §22.917, §24.238

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.

TEST PROCEDURE

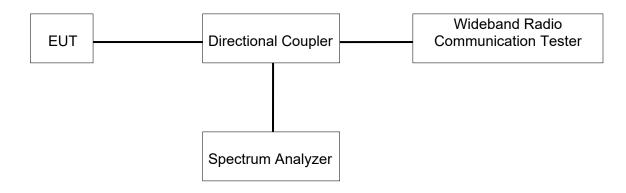
Per KDB 971168 D01 Power Meas License Digital Systems v03r01

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

- a) Set the RBW = 100 kHz for emission below 1GHz and 1MHz for emissions above 1GHz (Tests were performed 1 MHz [Worst case], to sweep 1 time for all frequency range)
- b) Set VBW \geq 3 × RBW;
- c) Set span ≥ 1.5 times the OBW;
- d) Sweep time = auto couple;
- e) Detector = rms;
- f) Ensure that the number of measurement points = Max (40001);
- g) Trace mode = average (LTE 5), Maxhold (LTE Band7);

Note: Please refer to section 5.4 for bandwidth and RB setting about LTE bands.

TEST SETUP





TEST ENVIRONMENT

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Temperature	23.2°C	Relative Humidity	52.6%
Atmosphere Pressure	101kPa	Test Voltage	DC 7.2 V

RESULTS

Please refer to Appendix E.



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7.6. FREQUENCY STABILITY

Rule Part:

FCC: §2.1055, §22.355, §24.235, §27.54

LIMITS

§22.355 - The carrier frequency shall not depart from the reference frequency in excess of ±2.5 ppm for mobile stations.

§24.235 and §27.54 - The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

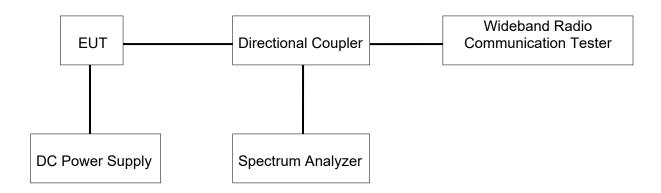
TEST PROCEDURE

Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01.

	Normal Test Conditions	Extreme Test Conditions
Relative Humidity	45 % - 75 %	/
Atmospheric Pressure	100 kPa ∼102 kPa	1
Temperature	T _N (Normal Temperature):	T _L (Low Temperature): -30 °C
remperature	24.7 °C	T _н (High Temperature): 50 °C
Cupply Voltage	V _N (Normal Voltage):	V _∟ (Low Voltage): DC 6.1V
Supply Voltage	DC 7.2 V	V _H (High Voltage): DC 8.3 V



TEST SETUP



TEST ENVIRONMENT

Temperature	23.2°C	Relative Humidity	52.6%
Atmosphere Pressure	101kPa	Test Voltage	/

RESULTS

The peak frequency error is recorded (worst-case).

Please refer to Appendix F.

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8. APPENDIX

8.1. AppendixA: Effective (Isotropic) Radiated Power Output Data 8.1.1. Test Result

Band 2		Avera	age Power	(dBm)	EIRP (W)		
	Dariu Z	9262CH	9400CH	9538CH	9262CH	9400CH	9538CH
	12.2kbps RMC	21.27	21.41	21.04	0.176	0.182	0.167
WCDMA	64kbps RMC	21.13	21.25	20.94	0.171	0.175	0.163
VVCDIVIA	144kbps RMC	21.13	21.23	20.90	0.171	0.175	0.162
	384kbps RMC	21.12	21.30	20.91	0.170	0.177	0.162
	Subtest 1	20.32	20.40	20.06	0.142	0.144	0.133
HSDPA	Subtest 2	20.07	20.43	20.04	0.134	0.145	0.133
HODEA	Subtest 3	20.04	20.42	20.03	0.133	0.145	0.132
	Subtest 4	20.03	20.43	20.04	0.132	0.145	0.133
	Subtest 1	18.09	18.45	18.02	0.085	0.092	0.083
	Subtest 2	18.02	18.43	18.03	0.083	0.092	0.084
HSUPA	Subtest 3	18.02	18.43	18.01	0.083	0.092	0.083
	Subtest 4	18.02	18.42	17.98	0.083	0.091	0.083
	Subtest 5	19.84	20.39	20.02	0.127	0.144	0.132

Band 4		Avera	age Power	(dBm)	EIRP (W)		
	Danu 4	1312CH	1413CH	1513CH	1312CH	1413CH	1513CH
	12.2kbps RMC	21.32	21.45	21.55	0.153	0.158	0.161
WCDMA	64kbps RMC	21.14	21.33	21.36	0.147	0.153	0.155
VVCDIVIA	144kbps RMC	21.15	21.27	21.38	0.147	0.151	0.155
	384kbps RMC	21.19	21.29	21.35	0.149	0.152	0.154
	Subtest 1	20.29	20.43	20.54	0.121	0.125	0.128
HSDPA	Subtest 2	20.55	20.41	20.55	0.128	0.124	0.128
ПОДРА	Subtest 3	20.54	20.41	20.51	0.128	0.124	0.127
	Subtest 4	20.52	20.38	20.53	0.127	0.123	0.128
	Subtest 1	18.45	18.58	18.68	0.079	0.081	0.083
	Subtest 2	18.68	18.60	18.69	0.083	0.082	0.084
HSUPA	Subtest 3	18.69	18.57	18.71	0.084	0.081	0.084
	Subtest 4	18.69	18.58	18.69	0.084	0.081	0.084
	Subtest 5	20.40	20.53	20.68	0.124	0.128	0.132



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Band 5		Avera	age Power	(dBm)	ERP (W)		
	Danu o	4132CH	4183CH	4233CH	4132CH	4183CH	4233CH
	12.2kbps RMC	21.94	22.11	22.21	0.090	0.094	0.096
WCDMA	64kbps RMC	21.82	21.92	22.11	0.088	0.090	0.094
VVCDIVIA	144kbps RMC	21.84	21.99	22.11	0.088	0.091	0.094
	384kbps RMC	21.82	21.92	22.08	0.088	0.090	0.093
	Subtest 1	20.94	21.17	21.25	0.072	0.076	0.077
HSDPA	Subtest 2	21.23	21.15	21.24	0.077	0.075	0.077
ПОПРА	Subtest 3	21.27	21.14	21.24	0.077	0.075	0.077
	Subtest 4	21.25	21.16	21.25	0.077	0.076	0.077
	Subtest 1	19.53	19.20	19.32	0.052	0.048	0.049
	Subtest 2	19.35	19.19	19.31	0.050	0.048	0.049
HSUPA	Subtest 3	19.29	19.20	19.31	0.049	0.048	0.049
	Subtest 4	19.32	19.19	19.32	0.049	0.048	0.049
	Subtest 5	20.98	21.19	21.27	0.072	0.076	0.077

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8.2. AppendixB:Peak-to-Average Ratio 8.2.1. Test Result

REL99:

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	3.04	13	PASS
Band4	1413	3.1	13	PASS
Band5	4182	3.06	13	PASS

HSDPA:

Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	4	3.96	13	PASS
Band4	1413	4	4.02	13	PASS
Band5	4182	4	3.92	13	PASS

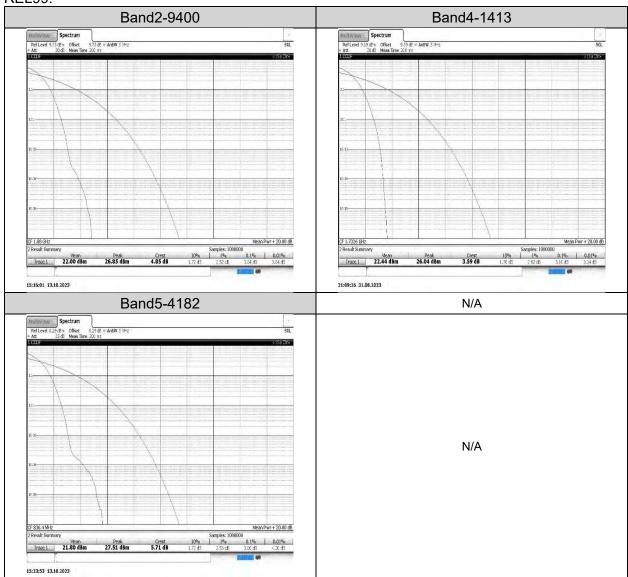
HSUPA:

Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	5	4.16	13	PASS
Band4	1413	5	4.32	13	PASS
Band5	4182	5	4.2	13	PASS

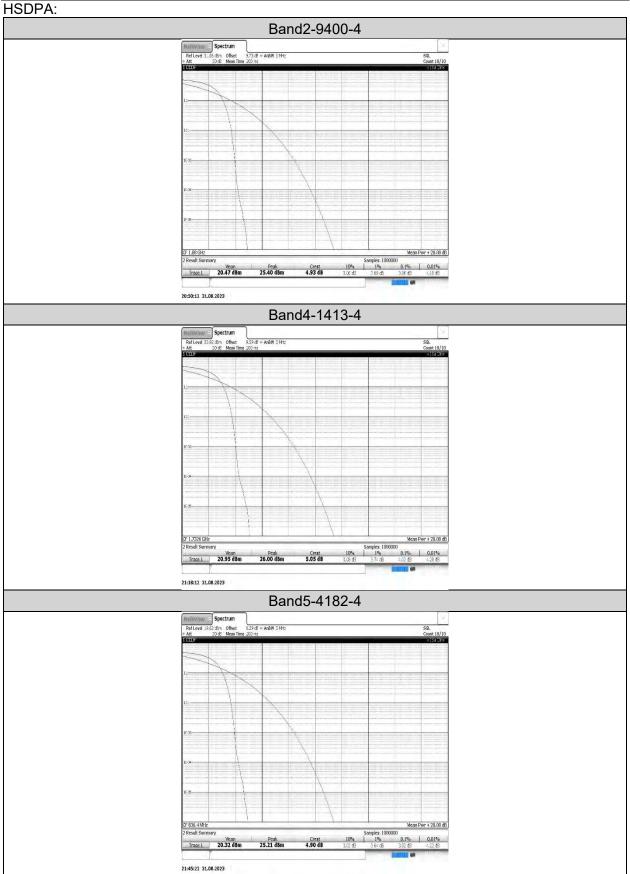


8.2.1. Test Graphs

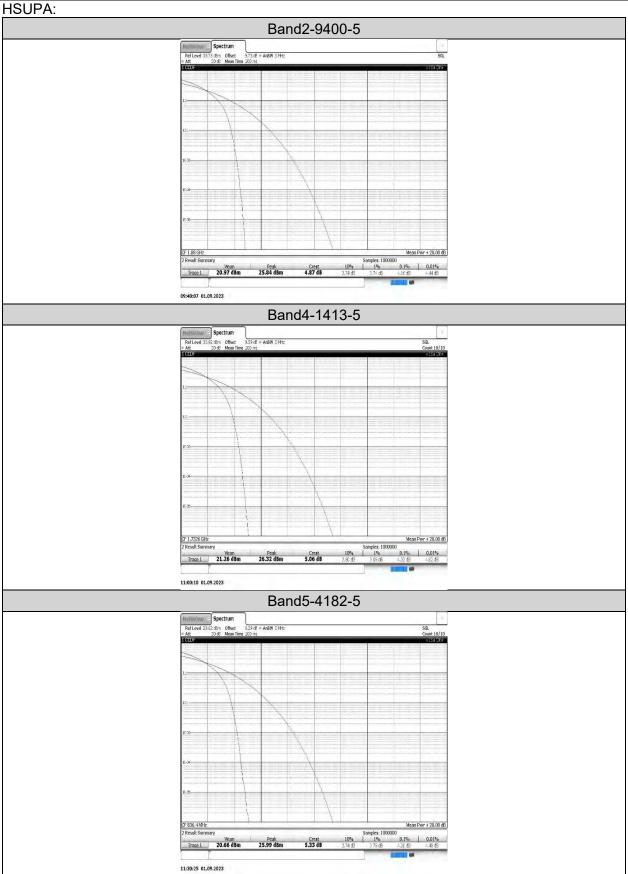
REL99:











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8.3. AppendixC:26dB Bandwidth and Occupied Bandwidth 8.3.1. Test Result

REL99:

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band2	9400	4.187	4.74		PASS
Band4	1413	4.185	4.74		PASS
Band5	4182	4.185	4.74		PASS

HSDPA:

Band	Channel	SubTest	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band2	9400	4	4.196	4.74		PASS
Band4	1413	4	4.188	4.74		PASS
Band5	4182	4	4.183	4.71		PASS

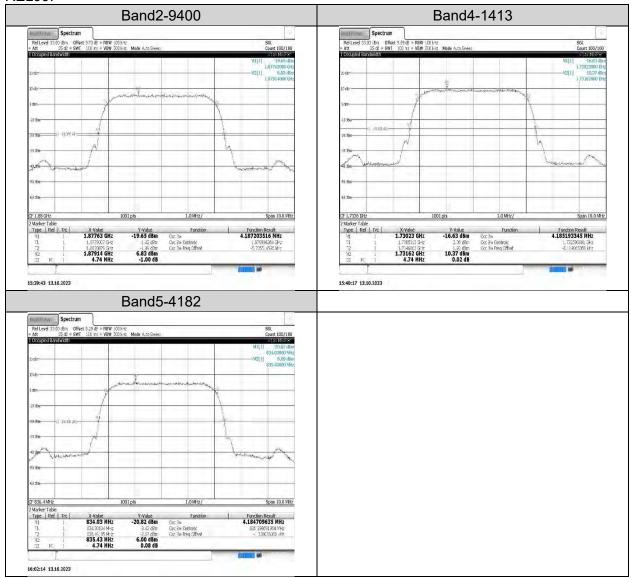
HSUPA:

Band	Channel	SubTest	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band2	9400	5	4.183	4.73		PASS
Band4	1413	5	4.187	4.73		PASS
Band5	4182	5	4.175	4.74		PASS

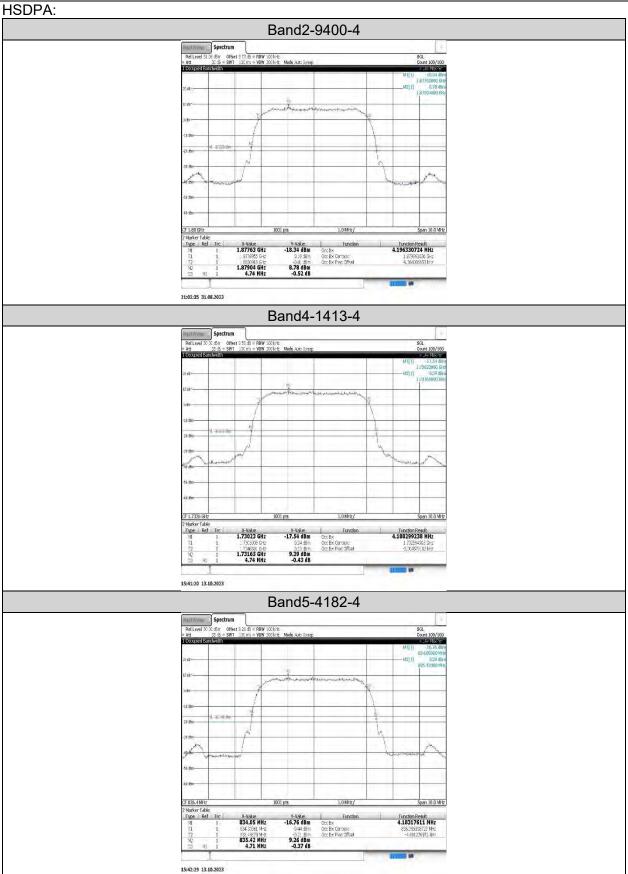


8.3.2. Test Graphs

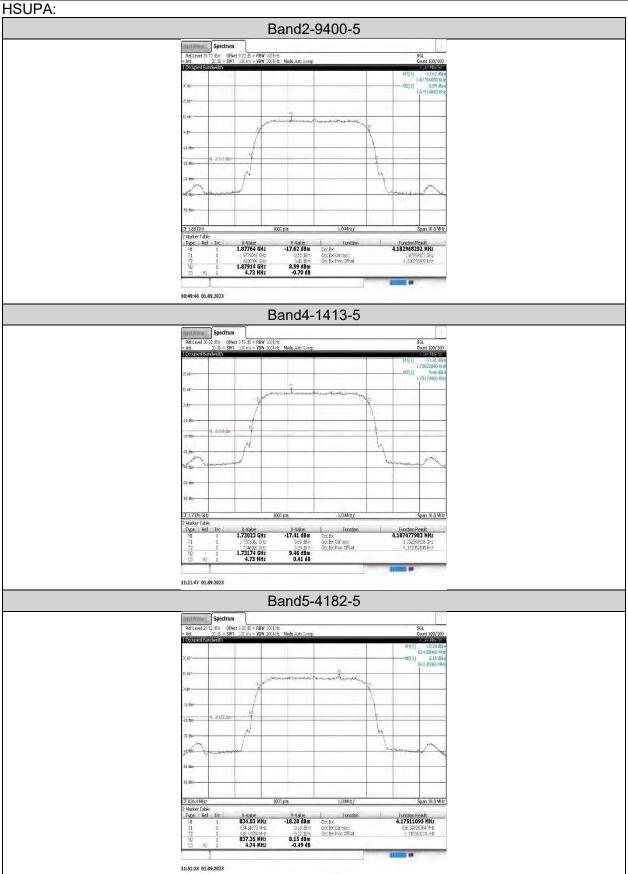
REL99:











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8.4. AppendixD:Band Edge 8.4.1. Test Result

REL99:

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-30.87	-13	PASS
Band2	9538	1910.00	-34.93	-13	PASS
Band4	1312	1709.93	-36.26	-13	PASS
Band4	1513	1755.00	-33.10	-13	PASS
Band5	4132	824.00	-36.73	-13	PASS
Band5	4233	849.00	-33.82	-13	PASS

HSDPA:

Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	4	1849.92	-31.21	-13	PASS
Band2	9538	4	1910.07	-34.94	-13	PASS
Band4	1312	4	1710.00	-38.57	-13	PASS
Band4	1513	4	1755.08	-36.11	-13	PASS
Band5	4132	4	823.94	-35.8	-13	PASS
Band5	4233	4	849.00	-36.22	-13	PASS

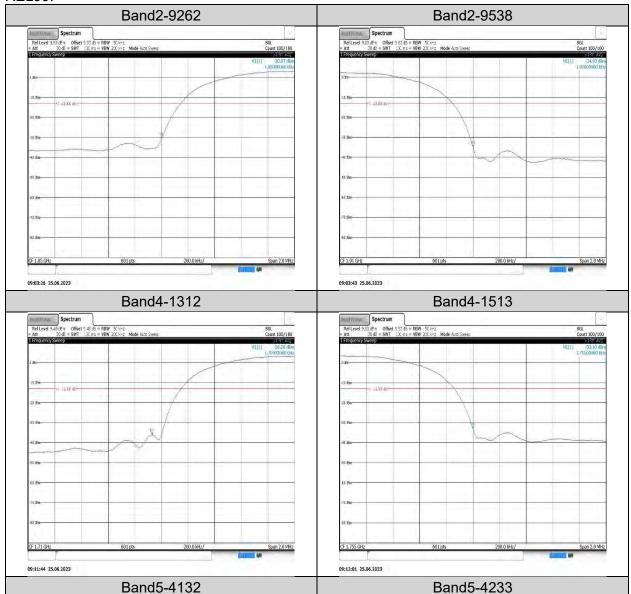
HSUPA:

Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	5	1850.00	-29.93	-13	PASS
Band2	9538	5	1910.00	-34.9	-13	PASS
Band4	1312	5	1709.93	-37.72	-13	PASS
Band4	1513	5	1755.07	-36.21	-13	PASS
Band5	4132	5	823.94	-37.05	-13	PASS
Band5	4233	5	849.00	-36.36	-13	PASS

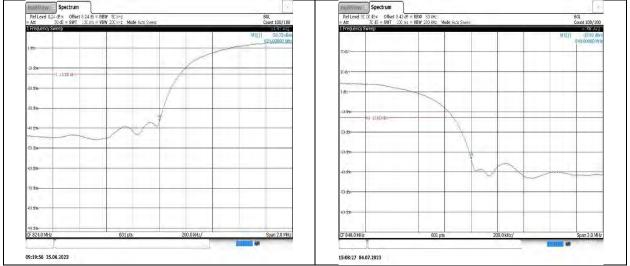


8.4.2. Test Graphs

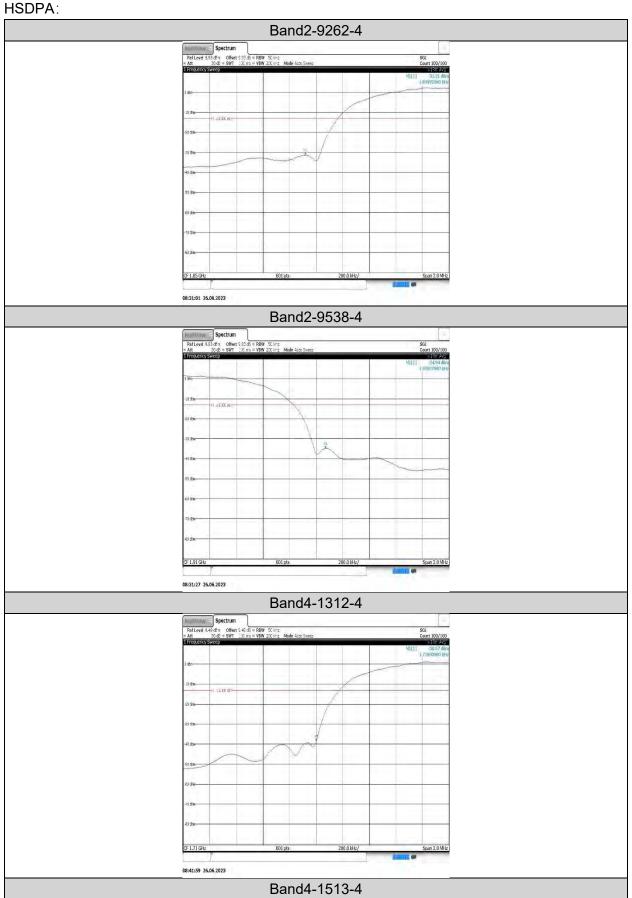
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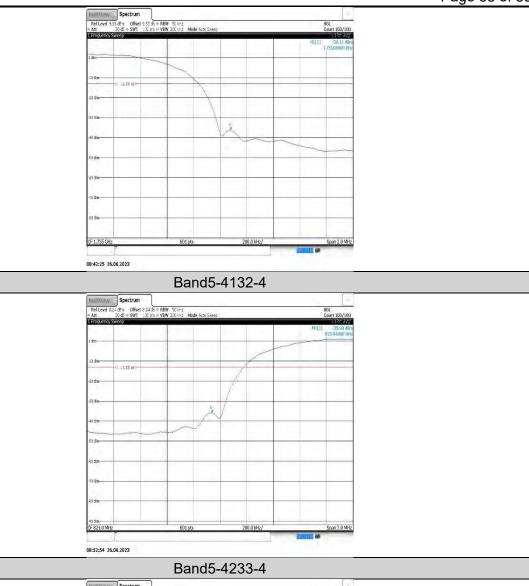




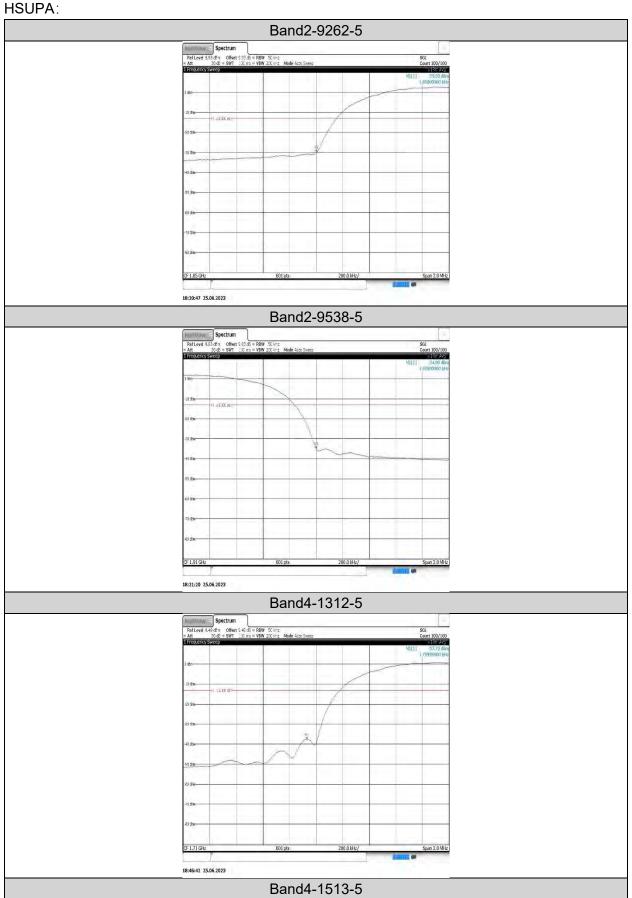




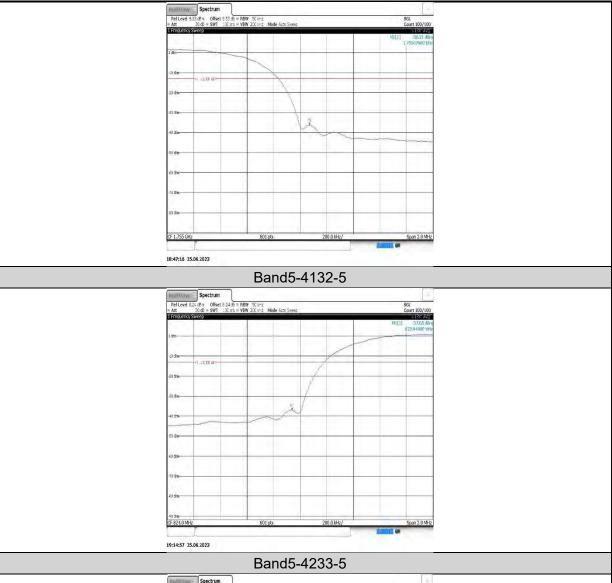


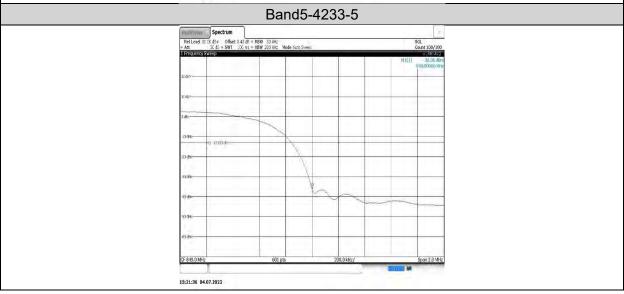












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8.5. AppendixE:Conducted SpuriousEmission 8.5.1. Test Result

RFI 99:

REL99:						
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.02	-86.84	-43	PASS
Band2	9262	0.15~30MHz	26.22	-68.99	-23	PASS
Band2	9262	30~1000MHz	915.89	-44.52	-13	PASS
Band2	9262	1000~20000MHz	7855.2	-36.91	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-84.97	-43	PASS
Band2	9400	0.15~30MHz	0.31	-67.98	-23	PASS
Band2	9400	30~1000MHz	848.57	-44.93	-13	PASS
Band2	9400	1000~20000MHz	7988.2	-37.04	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-86.34	-43	PASS
Band2	9538	0.15~30MHz	12.21	-67.99	-23	PASS
Band2	9538	30~1000MHz	919.87	-45.25	-13	PASS
Band2	9538	1000~20000MHz	7102.17	-36.64	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-86.82	-43	PASS
Band4	1312	0.15~30MHz	0.3	-68.07	-23	PASS
Band4	1312	30~1000MHz	942.11	-45.21	-13	PASS
Band4	1312	1000~20000MHz	7042.63	-37	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-86.93	-43	PASS
Band4	1413	0.15~30MHz	5.14	-68.69	-23	PASS
Band4	1413	30~1000MHz	547.4	-45.39	-13	PASS
Band4	1413	1000~20000MHz	6922.3	-37.05	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-86.23	-43	PASS
Band4	1513	0.15~30MHz	9.65	-68.52	-23	PASS
Band4	1513	30~1000MHz	557.94	-45.4	-13	PASS
Band4	1513	1000~20000MHz	7707	-37.54	-13	PASS
Band5	4132	0.009~0.15MHz	0.02	-85.53	-33	PASS
Band5	4132	0.15~30MHz	0.36	-68.17	-13	PASS
Band5	4132	30~1000MHz	681.74	-54.45	-13	PASS
Band5	4132	1000~10000MHz	7156.84	-38.8	-13	PASS
Band5	4182	0.009~0.15MHz	0.01	-85.14	-33	PASS
Band5	4182	0.15~30MHz	11.77	-68.96	-13	PASS
Band5	4182	30~1000MHz	468.6	-54.39	-13	PASS
Band5	4182	1000~10000MHz	7196.14	-38.25	-13	PASS
Band5	4233	0.009~0.15MHz	0.02	-86.28	-33	PASS
Band5	4233	0.15~30MHz	0.45	-67.45	-13	PASS
Band5	4233	30~1000MHz	582.32	-54.48	-13	PASS
Band5	4233	1000~10000MHz	7894.22	-38.97	-13	PASS

HSDPA:

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Band	Channel	SubTest	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	4	0.15~30MHz	0.3	-68.27	-23	PASS
Band2	9262	4	30~1000MHz	933.8	-45.19	-13	PASS
Band2	9262	4	1000~20000MHz	7997.07	-37.2	-13	PASS
Band2	9262	4	0.009~0.15MHz	0.01	-84.42	-43	PASS
Band2	9400	4	0.009~0.15MHz	0.1	-87.37	-43	PASS
Band2	9400	4	0.15~30MHz	0.3	-67.87	-23	PASS



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Band2	9400	4	30~1000MHz	914.34	-45.45	-13	PASS
Band2	9400	4	1000~20000MHz	7967.3	-36.84	-13	PASS
Band2	9538	4	0.009~0.15MHz	0.01	-85.84	-43	PASS
Band2	9538	4	1000~20000MHz	7974.27	-37.67	-13	PASS
Band2	9538	4	0.15~30MHz	1.5	-68.68	-23	PASS
Band2	9538	4	30~1000MHz	962.96	-45.31	-13	PASS
Band4	1312	4	0.009~0.15MHz	0.01	-86.7	-43	PASS
Band4	1312	4	0.15~30MHz	5.09	-68.68	-23	PASS
Band4	1312	4	30~1000MHz	906.8	-44.62	-13	PASS
Band4	1312	4	1000~20000MHz	7019.83	-37.12	-13	PASS
Band4	1413	4	0.15~30MHz	2.9	-67.04	-23	PASS
Band4	1413	4	30~1000MHz	877.09	-45.66	-13	PASS
Band4	1413	4	1000~20000MHz	7993.27	-37.41	-13	PASS
Band4	1413	4	0.009~0.15MHz	0.01	-85.91	-43	PASS
Band4	1513	4	0.009~0.15MHz	0.01	-82.84	-43	PASS
Band4	1513	4	0.15~30MHz	11.02	-68.2	-23	PASS
Band4	1513	4	30~1000MHz	551.08	-45.5	-13	PASS
Band4	1513	4	1000~20000MHz	7152.83	-37.24	-13	PASS
Band5	4132	4	30~1000MHz	945.55	-54.38	-13	PASS
Band5	4132	4	1000~10000MHz	7028.75	-38.07	-13	PASS
Band5	4132	4	0.15~30MHz	0.47	-67.89	-13	PASS
Band5	4132	4	0.009~0.15MHz	0.01	-86.45	-33	PASS
Band5	4182	4	0.15~30MHz	0.69	-68.86	-13	PASS
Band5	4182	4	30~1000MHz	974.23	-54.68	-13	PASS
Band5	4182	4	1000~10000MHz	7086.05	-39.02	-13	PASS
Band5	4182	4	0.009~0.15MHz	0.02	-87.1	-33	PASS
Band5	4233	4	1000~10000MHz	7085.15	-38.94	-13	PASS
Band5	4233	4	0.009~0.15MHz	0.01	-85.51	-33	PASS
Band5	4233	4	0.15~30MHz	3.19	-68.66	-13	PASS
Band5	4233	4	30~1000MHz	467.99	-53.34	-13	PASS

HSUPA:

Band	Channel	SubTest	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	5	0.15~30MHz	2.68	-67.53	-23	PASS
Band2	9262	5	30~1000MHz	613.55	-45.61	-13	PASS
Band2	9262	5	1000~20000MHz	3703.07	-36.87	-13	PASS
Band2	9262	5	0.009~0.15MHz	0.01	-86.91	-43	PASS
Band2	9400	5	0.009~0.15MHz	0.01	-85.16	-43	PASS
Band2	9400	5	0.15~30MHz	14.47	-68.87	-23	PASS
Band2	9400	5	30~1000MHz	941.2	-45.12	-13	PASS
Band2	9400	5	1000~20000MHz	7149.67	-36.36	-13	PASS
Band2	9538	5	0.009~0.15MHz	0.01	-86.15	-43	PASS
Band2	9538	5	1000~20000MHz	7099.63	-37.2	-13	PASS
Band2	9538	5	0.15~30MHz	1.1	-68.57	-23	PASS
Band2	9538	5	30~1000MHz	613.16	-45.86	-13	PASS
Band4	1312	5	0.009~0.15MHz	0.01	-85.78	-43	PASS
Band4	1312	5	0.15~30MHz	0.53	-67.67	-23	PASS
Band4	1312	5	30~1000MHz	910.04	-45.67	-13	PASS
Band4	1312	5	1000~20000MHz	7997.07	-36.89	-13	PASS



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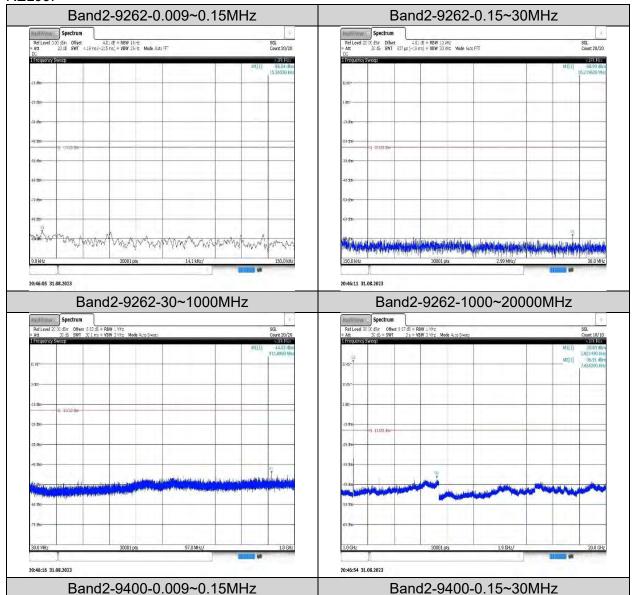
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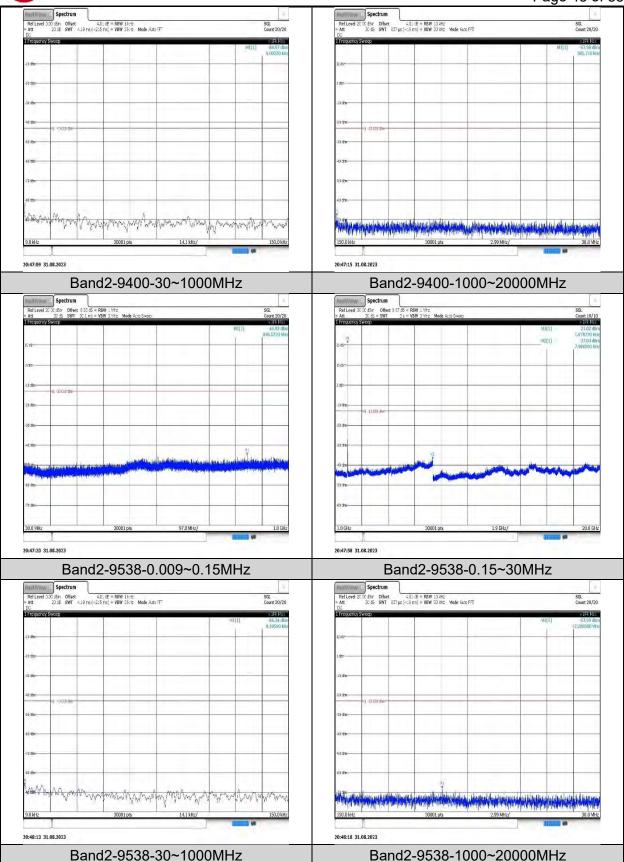
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Band4	1413	5	0.15~30MHz	1.45	-69.21	-23	PASS
Band4	1413	5	30~1000MHz	982.75	-45.56	-13	PASS
Band4	1413	5	1000~20000MHz	7131.93	-36.65	-13	PASS
Band4	1413	5	0.009~0.15MHz	0.01	-87.58	-43	PASS
Band4	1513	5	0.009~0.15MHz	0.01	-85.05	-43	PASS
Band4	1513	5	0.15~30MHz	0.28	-69	-23	PASS
Band4	1513	5	30~1000MHz	971.5	-45.57	-13	PASS
Band4	1513	5	1000~20000MHz	7014.13	-37.27	-13	PASS
Band5	4132	5	30~1000MHz	433.55	-54.68	-13	PASS
Band5	4132	5	1000~10000MHz	7953.92	-38.89	-13	PASS
Band5	4132	5	0.15~30MHz	0.3	-68.11	-13	PASS
Band5	4132	5	0.009~0.15MHz	0.02	-86.63	-33	PASS
Band5	4182	5	0.15~30MHz	6.6	-68.76	-13	PASS
Band5	4182	5	30~1000MHz	498.15	-54.44	-13	PASS
Band5	4182	5	1000~10000MHz	7034.75	-37.75	-13	PASS
Band5	4182	5	0.009~0.15MHz	0.01	-84.73	-33	PASS
Band5	4233	5	1000~10000MHz	7009.25	-39.07	-13	PASS
Band5	4233	5	0.009~0.15MHz	0.01	-85.59	-33	PASS
Band5	4233	5	0.15~30MHz	0.31	-68.15	-13	PASS
Band5	4233	5	30~1000MHz	566.86	-54.63	-13	PASS

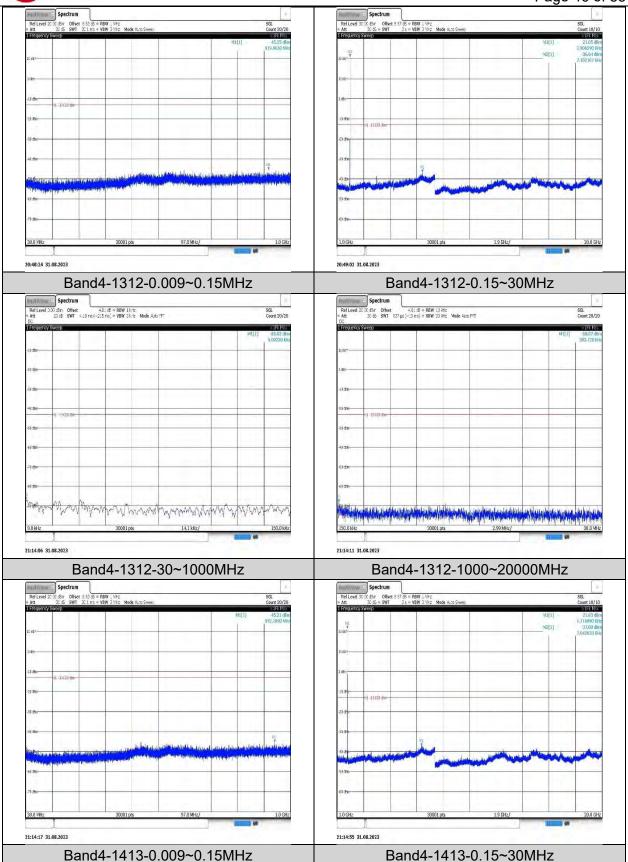


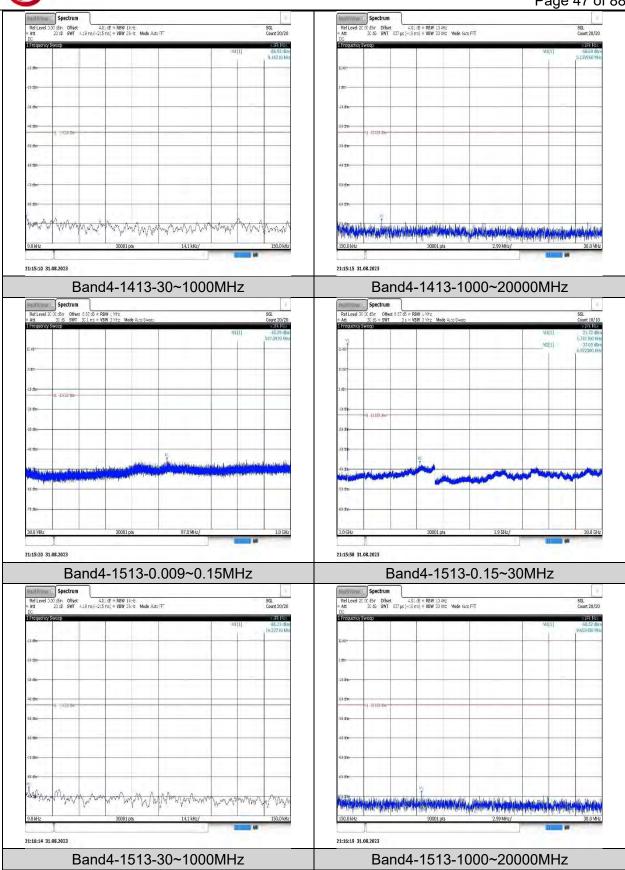
8.5.2. Test Graphs

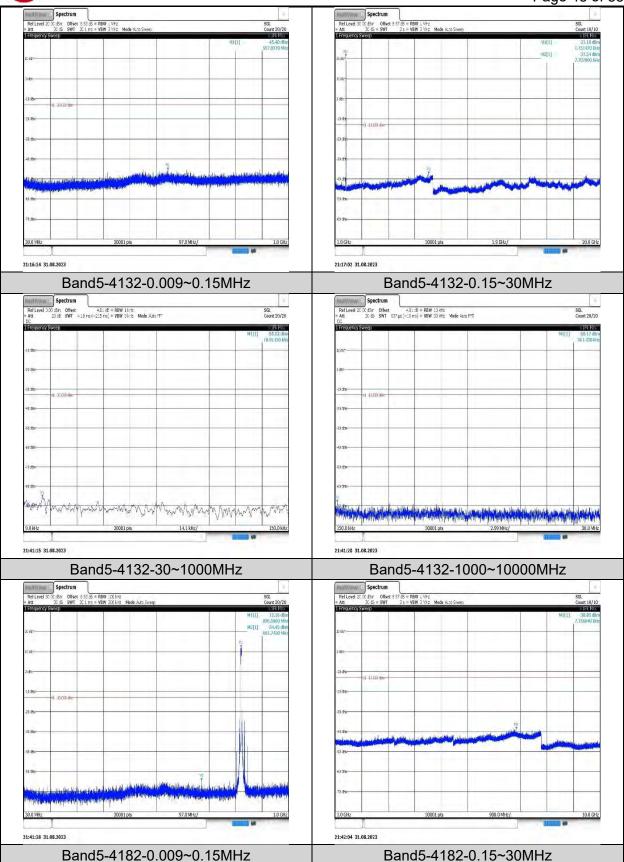
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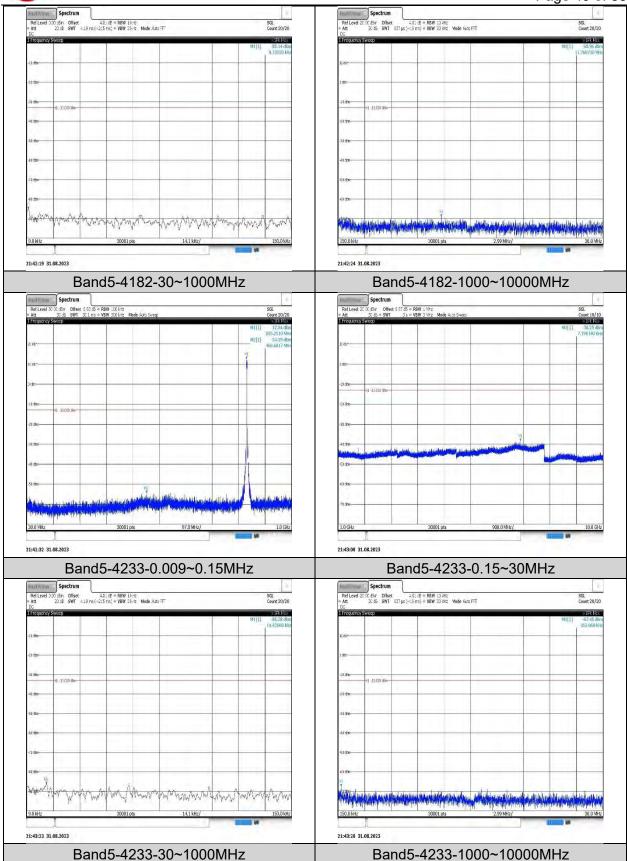




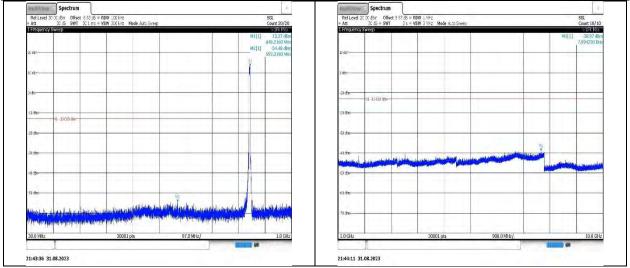


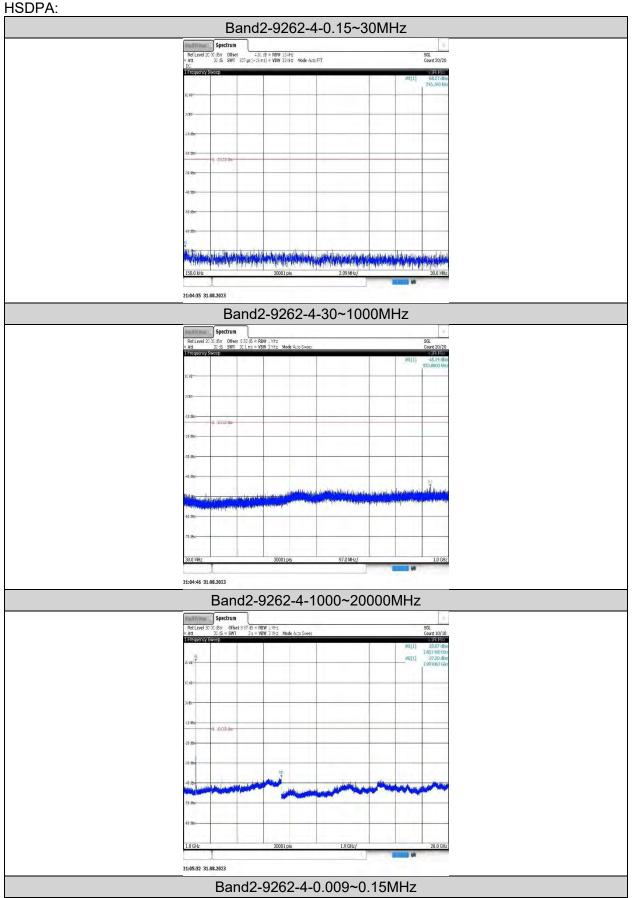


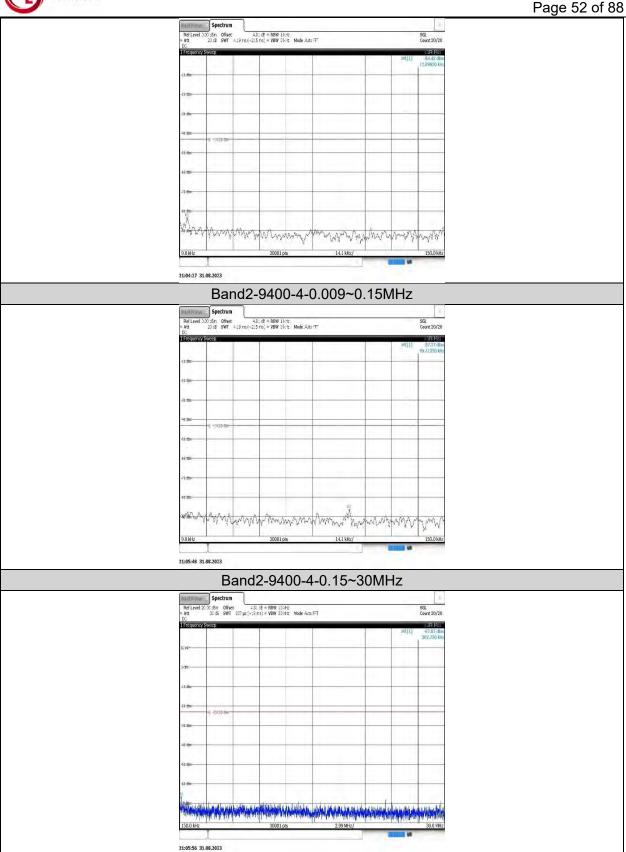






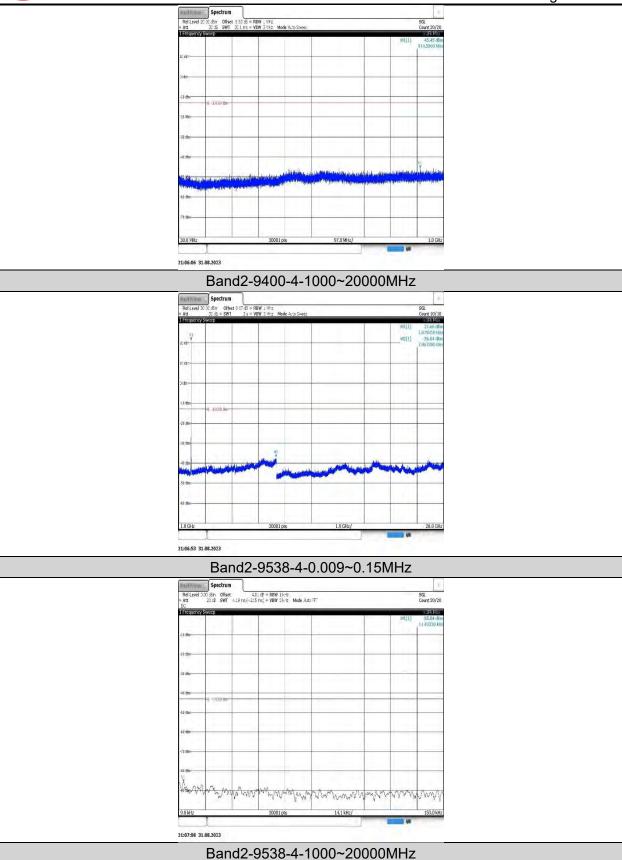






Band2-9400-4-30~1000MHz



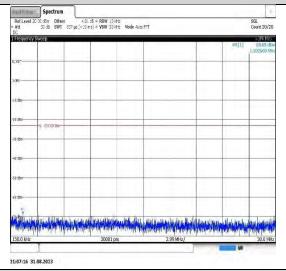




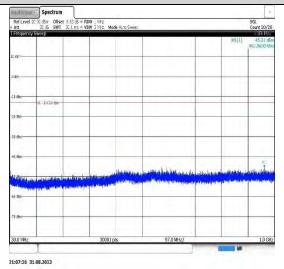
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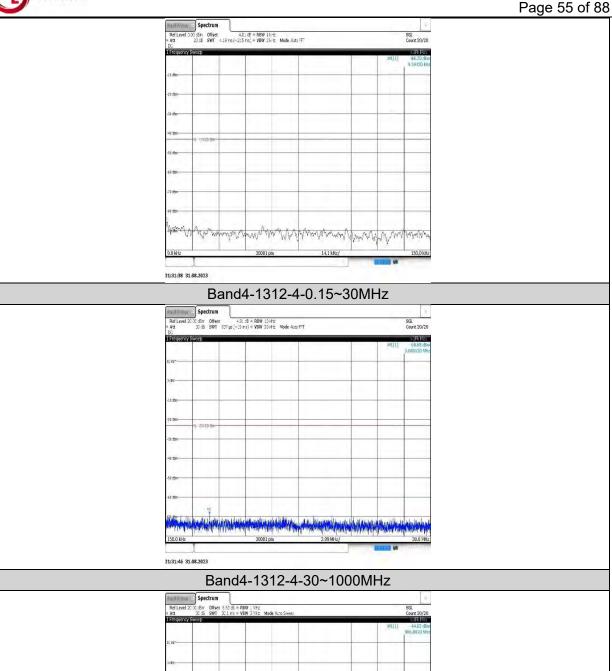
Band2-9538-4-0.15~30MHz

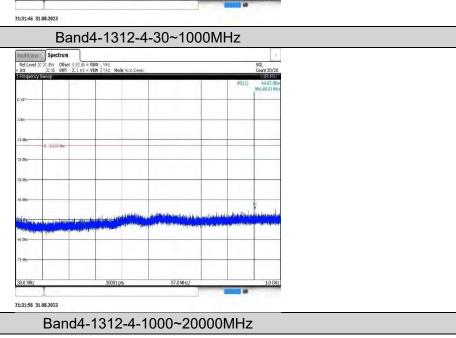
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Band2-9538-4-30~1000MHz



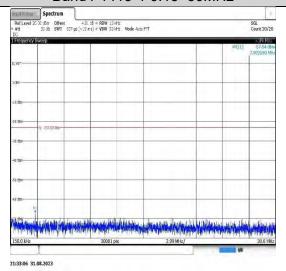




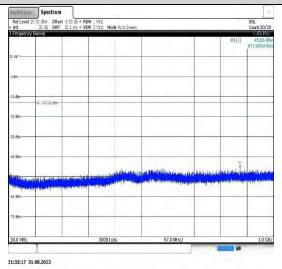


Band4-1413-4-0.15~30MHz

21:32:43 31.08.2023



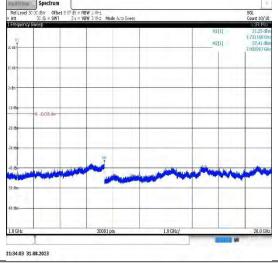
Band4-1413-4-30~1000MHz



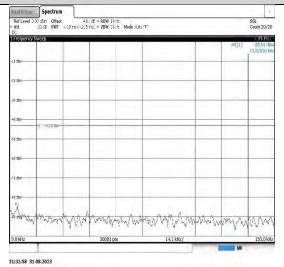
Band4-1413-4-1000~20000MHz



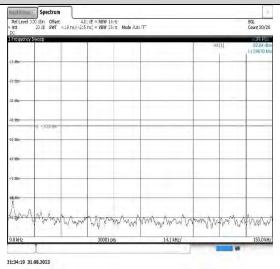
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Band4-1413-4-0.009~0.15MHz

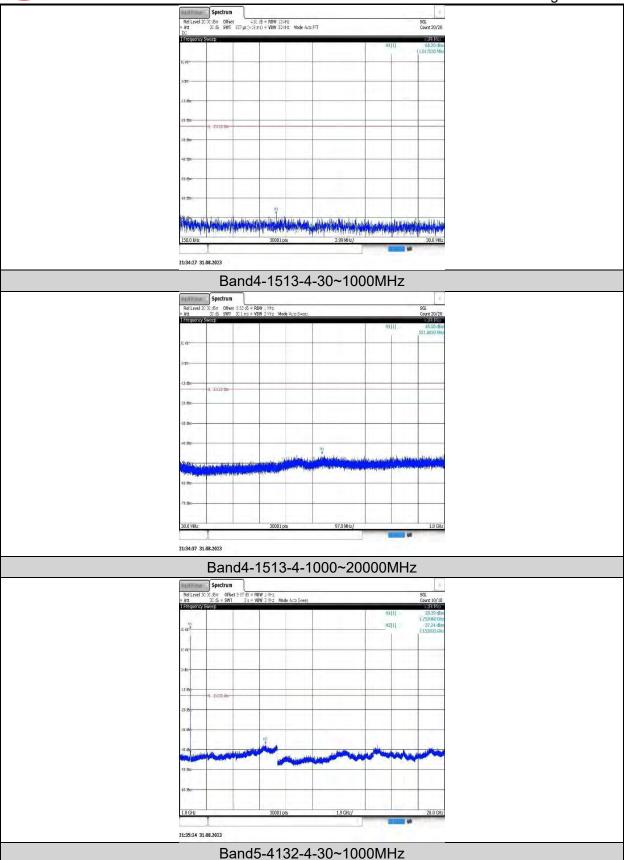


Band4-1513-4-0.009~0.15MHz

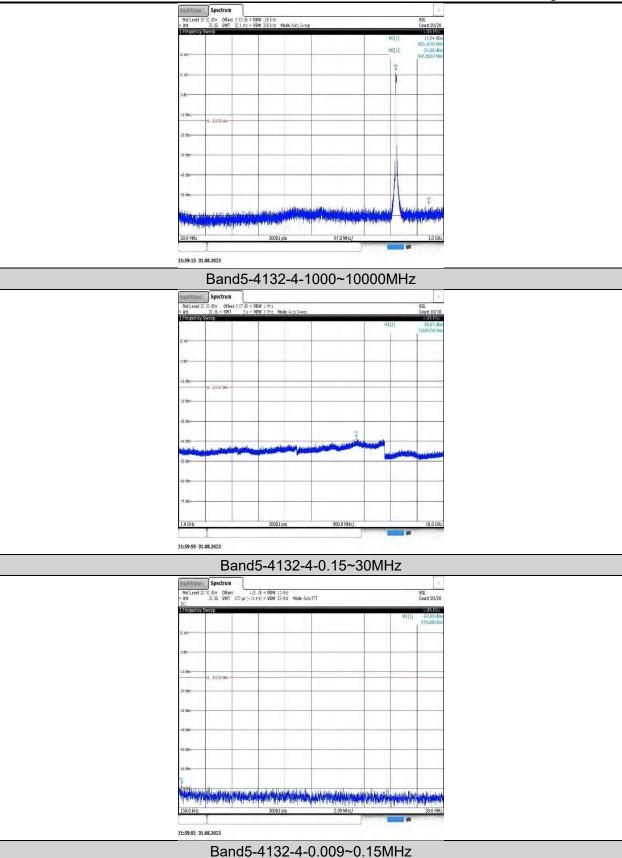


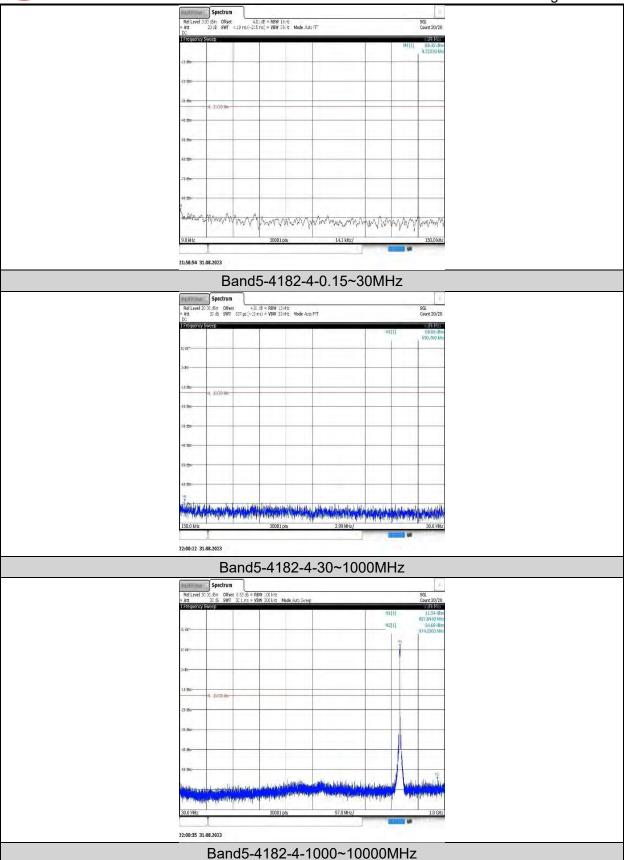
Band4-1513-4-0.15~30MHz



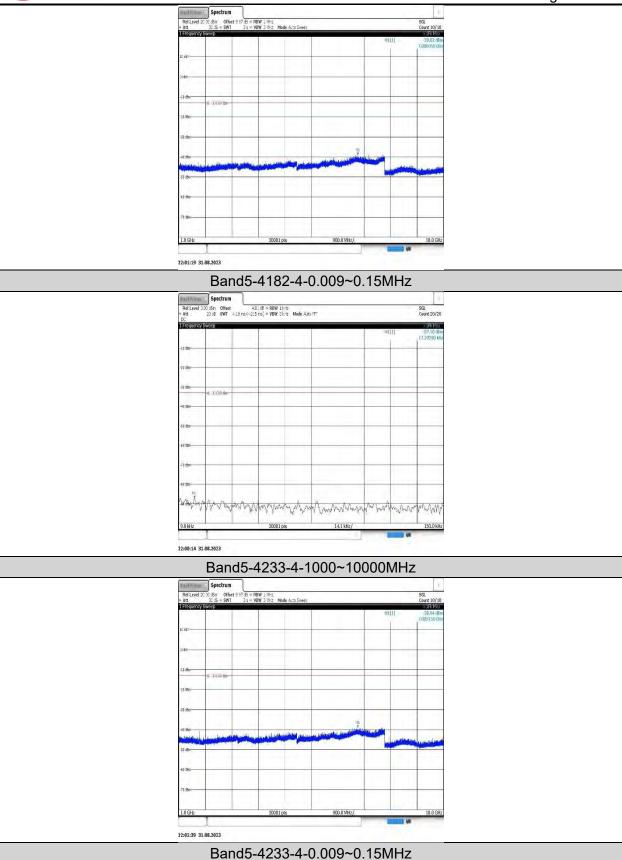


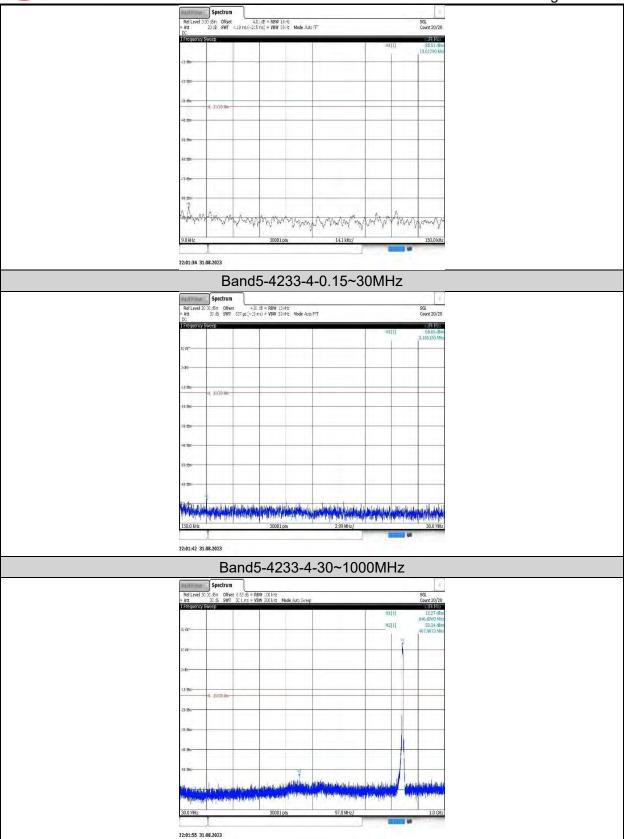




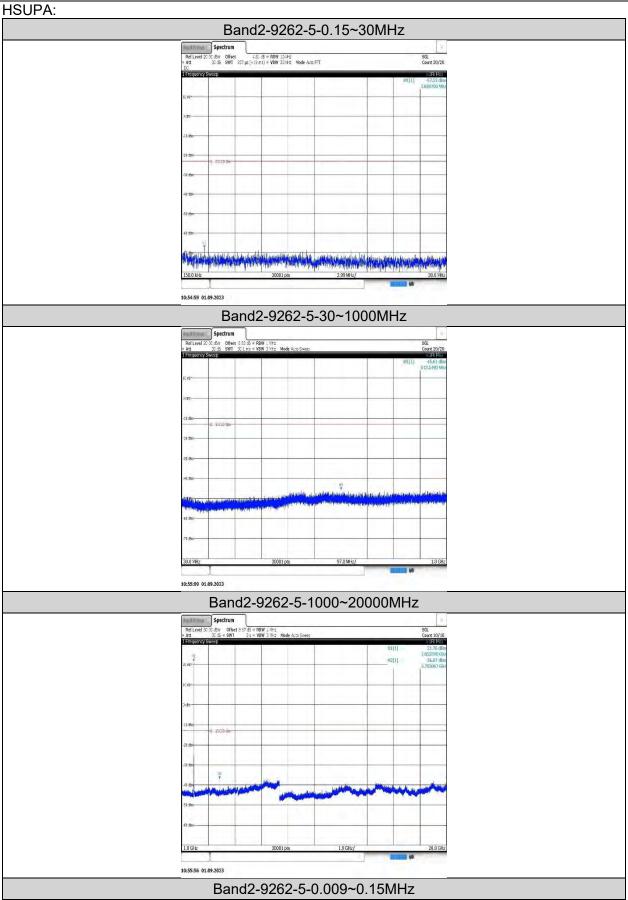


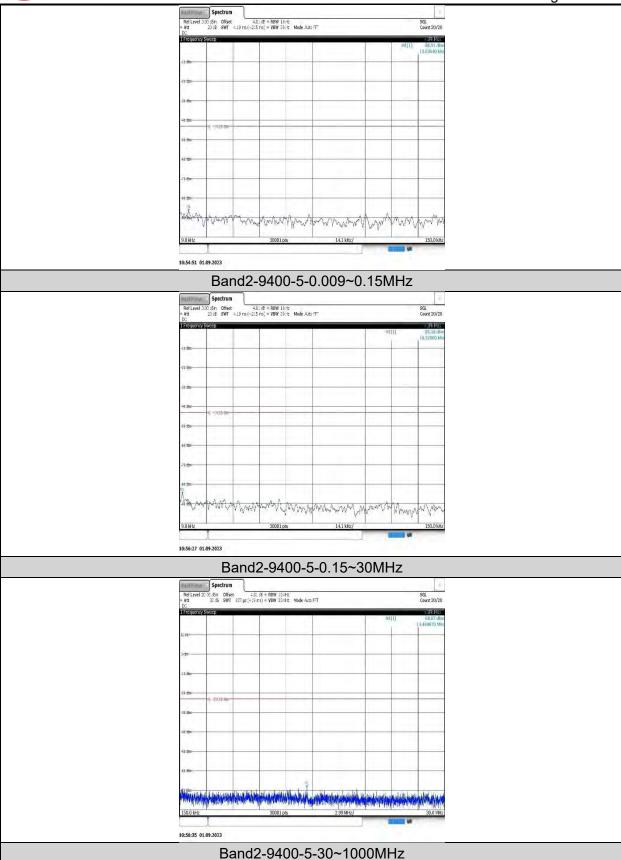






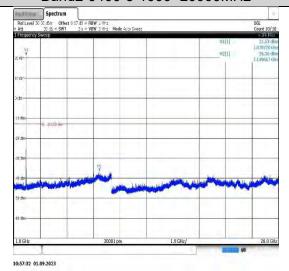




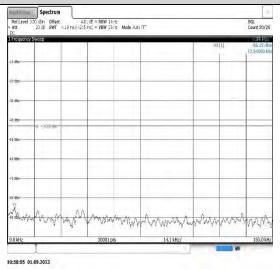




Band2-9400-5-1000~20000MHz



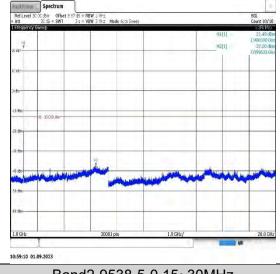
Band2-9538-5-0.009~0.15MHz

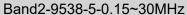


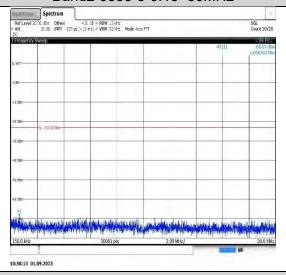
Band2-9538-5-1000~20000MHz



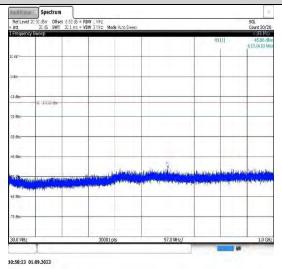
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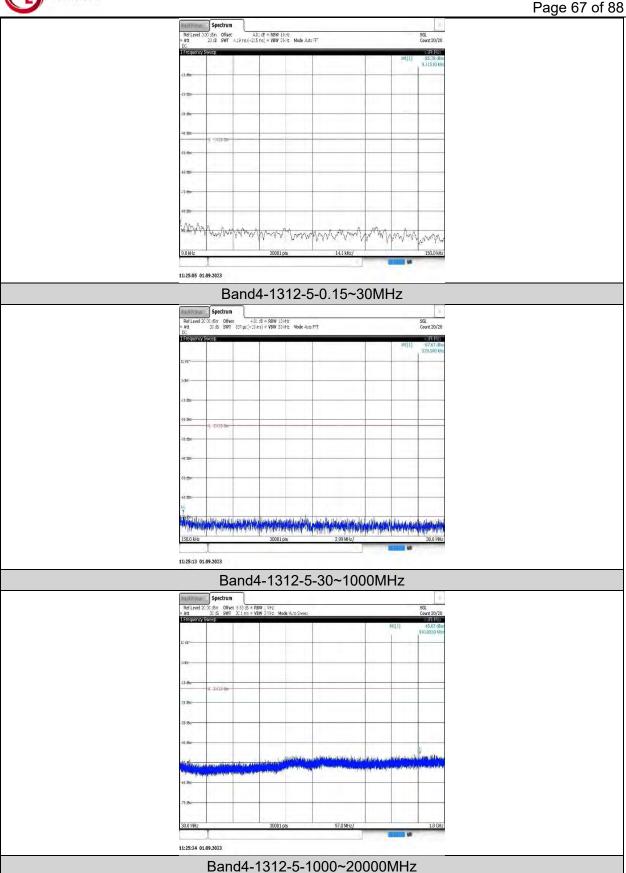




Band2-9538-5-30~1000MHz



Band4-1312-5-0.009~0.15MHz





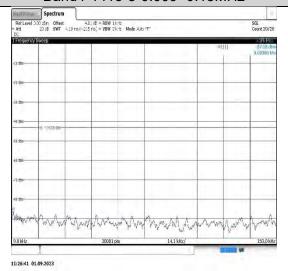
Page 68 of 88 11:26:10 01.09.2023 Band4-1413-5-0.15~30MHz SGL Count 20/20 11:26:49 01.09.2023 Band4-1413-5-30~1000MHz

Band4-1413-5-1000~20000MHz

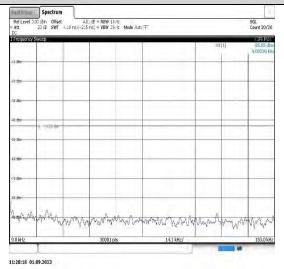


Band4-1413-5-0.009~0.15MHz

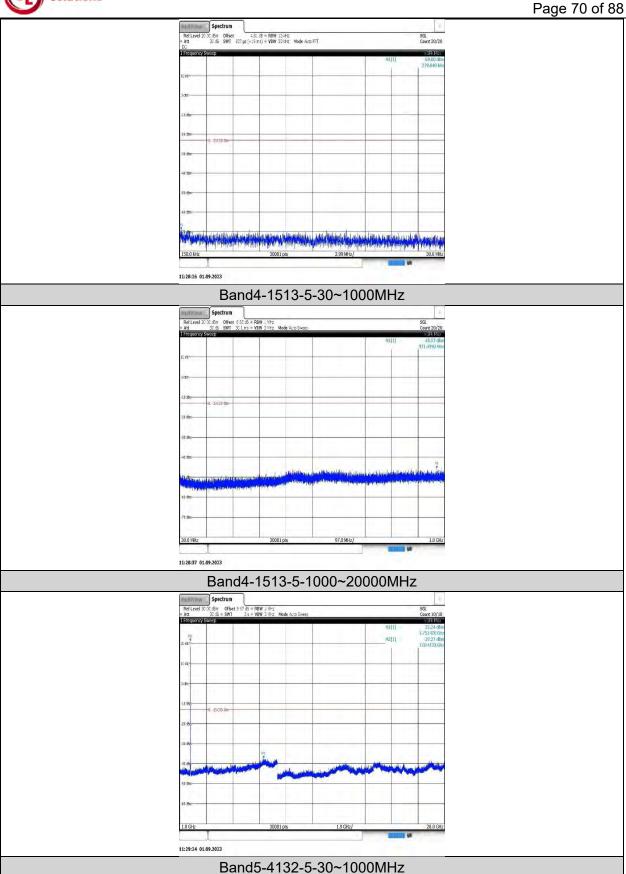
11:27:46 01.09.2023



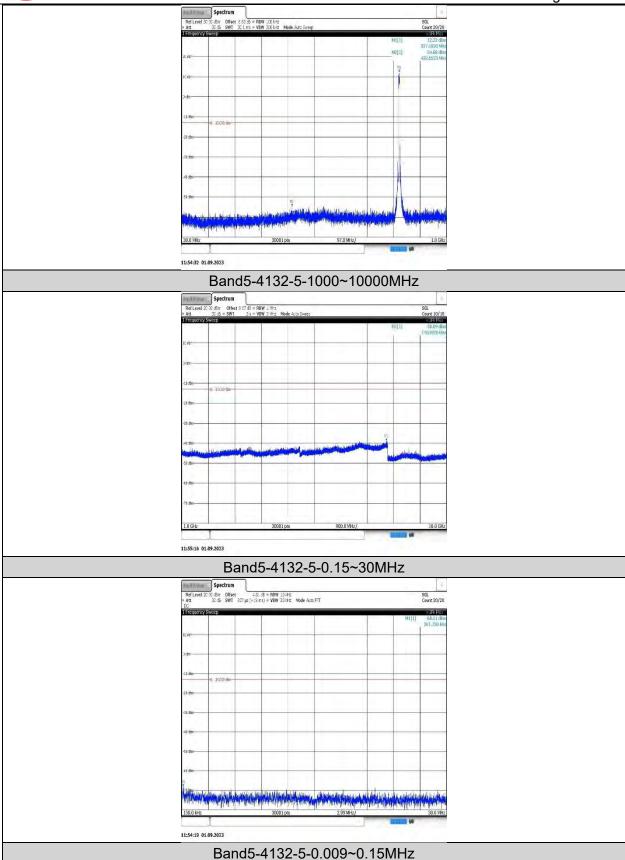
Band4-1513-5-0.009~0.15MHz



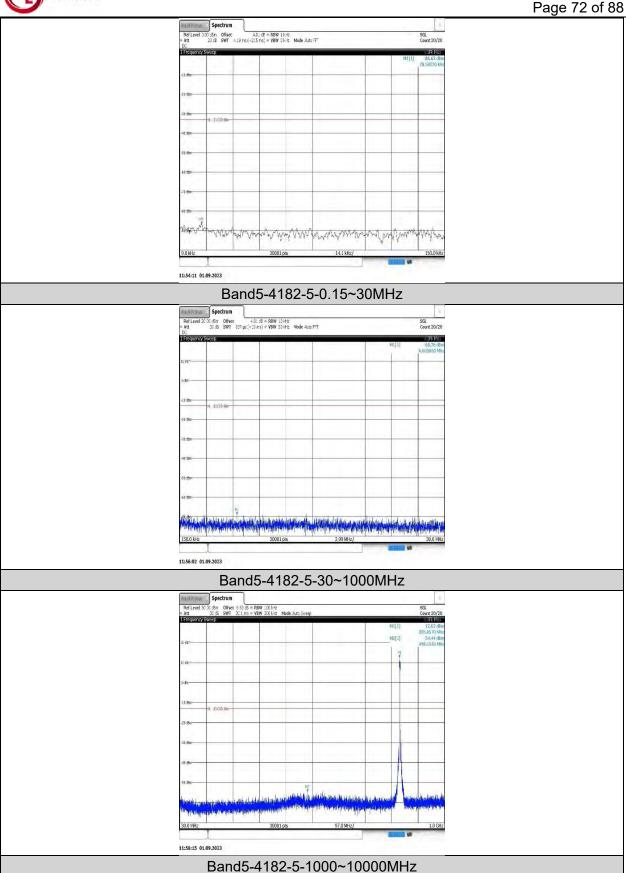




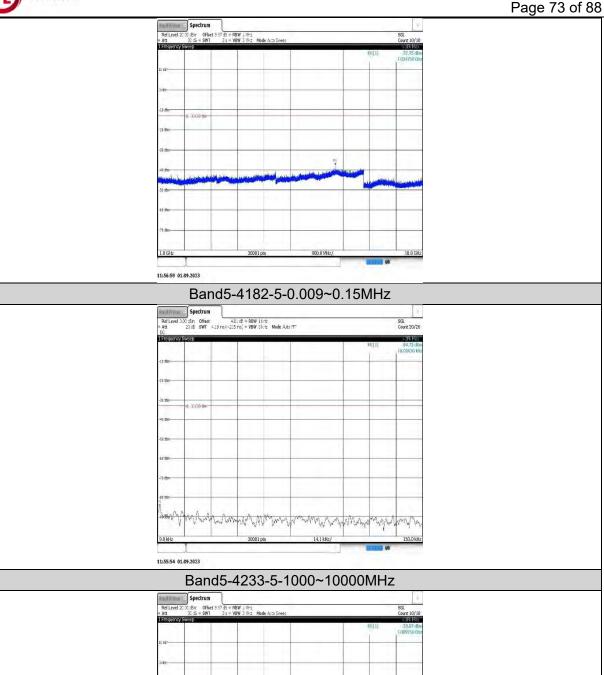






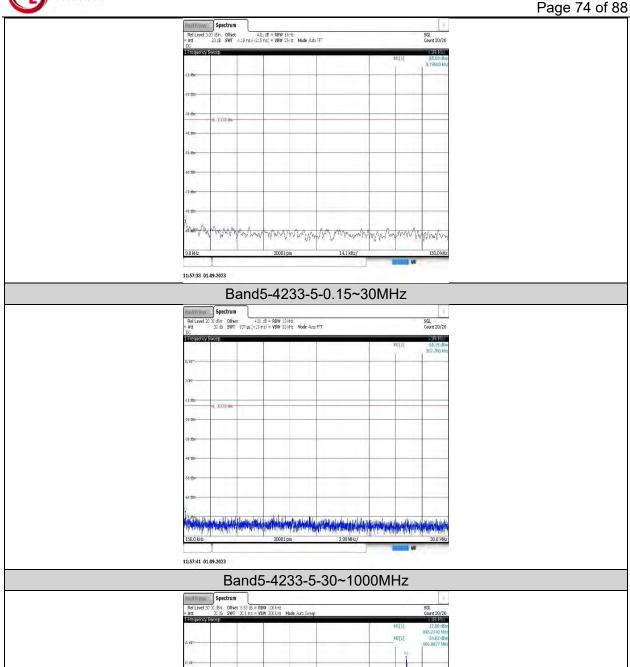


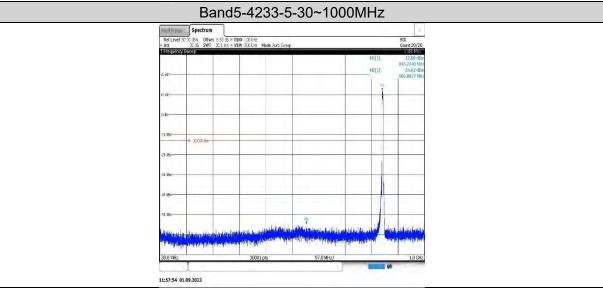




Band5-4233-5-0.009~0.15MHz







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8.6. AppendixF:Frequency Stability 8.6.1. Test Result

REL99:

			Vo	ltage			
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9400	VL	NT	-14.64	-0.007787	±2.5	PASS
Band2	9400	VN	NT	-16.38	-0.008713	±2.5	PASS
Band2	9400	VH	NT	-16.13	-0.008580	±2.5	PASS
Band4	1413	VL	NT	-11.82	-0.006822	±2.5	PASS
Band4	1413	VN	NT	-12.12	-0.006995	±2.5	PASS
Band4	1413	VH	NT	-11.63	-0.006712	±2.5	PASS
Band5	4182	VL	NT	-10.51	-0.012566	±2.5	PASS
Band5	4182	VN	NT	-7.35	-0.008788	±2.5	PASS
Band5	4182	VH	NT	-9.46	-0.011310	±2.5	PASS

			Ter	nperature			
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9400	NV	-30	-14.92	-0.007936	±2.5	PASS
Band2	9400	NV	-20	-14.34	-0.007628	±2.5	PASS
Band2	9400	NV	-10	-13.54	-0.007202	±2.5	PASS
Band2	9400	NV	0	-13.68	-0.007277	±2.5	PASS
Band2	9400	NV	10	-13.90	-0.007394	±2.5	PASS
Band2	9400	NV	20	-15.68	-0.008340	±2.5	PASS
Band2	9400	NV	30	-12.10	-0.006436	±2.5	PASS
Band2	9400	NV	40	-12.80	-0.006809	±2.5	PASS
Band2	9400	NV	50	-13.48	-0.007170	±2.5	PASS
Band4	1413	NV	-30	-14.94	-0.008623	±2.5	PASS
Band4	1413	NV	-20	-12.21	-0.007047	±2.5	PASS
Band4	1413	NV	-10	-13.22	-0.007630	±2.5	PASS
Band4	1413	NV	0	-10.24	-0.005910	±2.5	PASS
Band4	1413	NV	10	-15.25	-0.008802	±2.5	PASS
Band4	1413	NV	20	-13.83	-0.007982	±2.5	PASS
Band4	1413	NV	30	-12.39	-0.007151	±2.5	PASS
Band4	1413	NV	40	-11.49	-0.006632	±2.5	PASS
Band4	1413	NV	50	-14.68	-0.008473	±2.5	PASS
Band5	4182	NV	-30	-9.96	-0.011908	±2.5	PASS
Band5	4182	NV	-20	-8.59	-0.010270	±2.5	PASS
Band5	4182	NV	-10	-9.43	-0.011275	±2.5	PASS
Band5	4182	NV	0	-10.95	-0.013092	±2.5	PASS
Band5	4182	NV	10	-10.59	-0.012661	±2.5	PASS
Band5	4182	NV	20	-7.42	-0.008871	±2.5	PASS
Band5	4182	NV	30	-7.00	-0.008369	±2.5	PASS
Band5	4182	NV	40	-10.03	-0.011992	±2.5	PASS
Band5	4182	NV	50	-10.15	-0.012135	±2.5	PASS

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HODI A.				Voltage	÷			
Band	Channel	SubTest	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9400	1	VL	NT	-10.09	-0.005367	±2.5	PASS
Band2	9400	1	VN	NT	-8.75	-0.004654	±2.5	PASS
Band2	9400	1	VH	NT	-8.76	-0.004660	±2.5	PASS
Band2	9400	2	VL	NT	-15.36	-0.008170	±2.5	PASS
Band2	9400	2	VN	NT	-5.35	-0.002846	±2.5	PASS
Band2	9400	2	VH	NT	- 9.90	-0.005266	±2.5	PASS
Band2	9400	3	VL	NT	-13.33	-0.007090	±2.5	PASS
Band2	9400	3	VN	NT	-8.92	-0.004745	±2.5	PASS
Band2	9400	3	VH	NT	-14.33	-0.007622	±2.5	PASS
Band2	9400	4	VL	NT	-11.08	-0.005894	±2.5	PASS
Band2	9400	4	VN	NT	-7.70	-0.004096	±2.5	PASS
Band2	9400	4	VH	NT	- 9.69	-0.005154	±2.5	PASS
Band4	1413	4	VL	NT	-9.13	-0.005270	±2.5	PASS
Band4	1413	4	VN	NT	-10.09	-0.005824	±2.5	PASS
Band4	1413	4	VH	NT	-10.76	-0.006210	±2.5	PASS
Band5	4182	4	VL	NT	-12.97	-0.015507	±2.5	PASS
Band5	4182	4	VN	NT	-10.35	-0.012374	±2.5	PASS
Band5	4182	4	VH	NT	-7.52	-0.008991	±2.5	PASS

				Temperat	ure			
Band	Channel	SubTest	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9400	1	NV	-30	-9.08	-0.004830	±2.5	PASS
Band2	9400	1	NV	-20	-10.68	-0.005681	±2.5	PASS
Band2	9400	1	NV	-10	-6.42	-0.003415	±2.5	PASS
Band2	9400	1	NV	0	-7.47	-0.003973	±2.5	PASS
Band2	9400	1	NV	10	-11.42	-0.006074	±2.5	PASS
Band2	9400	1	NV	20	-7.57	-0.004027	±2.5	PASS
Band2	9400	1	NV	30	-4.63	-0.002463	±2.5	PASS
Band2	9400	1	NV	40	-5.84	-0.003106	±2.5	PASS
Band2	9400	1	NV	50	-5.50	-0.002926	±2.5	PASS
Band2	9400	2	NV	-30	-8.90	-0.004734	±2.5	PASS
Band2	9400	2	NV	-20	-10.71	-0.005697	±2.5	PASS
Band2	9400	2	NV	-10	-7.42	-0.003947	±2.5	PASS
Band2	9400	2	NV	0	-4.61	-0.002452	±2.5	PASS
Band2	9400	2	NV	10	-12.39	-0.006590	±2.5	PASS
Band2	9400	2	NV	20	-12.48	-0.006638	±2.5	PASS
Band2	9400	2	NV	30	-8.90	-0.004734	±2.5	PASS
Band2	9400	2	NV	40	-10.39	-0.005527	±2.5	PASS
Band2	9400	2	NV	50	-11.94	-0.006351	±2.5	PASS
Band2	9400	3	NV	-30	-14.50	-0.007713	±2.5	PASS
Band2	9400	3	NV	-20	-10.32	-0.005489	±2.5	PASS
Band2	9400	3	NV	-10	-9.59	-0.005101	±2.5	PASS
Band2	9400	3	NV	0	-5.44	-0.002894	±2.5	PASS

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1100171.				Voltage	e			
Band	Channel	SubTest	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9400	1	VL	NT	-13.00	-0.006915	±2.5	PASS
Band2	9400	1	VN	NT	-13.91	-0.007399	±2.5	PASS
Band2	9400	1	VH	NT	-12.34	-0.006564	±2.5	PASS
Band2	9400	2	VL	NT	-9.43	-0.005016	±2.5	PASS
Band2	9400	2	VN	NT	-9.86	-0.005245	±2.5	PASS
Band2	9400	2	VH	NT	-10.67	-0.005676	±2.5	PASS
Band2	9400	3	VL	NT	-12.04	-0.006404	±2.5	PASS
Band2	9400	3	VN	NT	-8.78	-0.004670	±2.5	PASS
Band2	9400	3	VH	NT	-8.82	-0.004691	±2.5	PASS
Band2	9400	4	VL	NT	-9.08	-0.004830	±2.5	PASS
Band2	9400	4	VN	NT	-7.24	-0.003851	±2.5	PASS
Band2	9400	4	VH	NT	-9.89	-0.005261	±2.5	PASS
Band2	9400	5	VL	NT	-8.00	-0.004255	±2.5	PASS
Band2	9400	5	VN	NT	-8.55	-0.004548	±2.5	PASS
Band2	9400	5	VH	NT	-10.26	-0.005457	±2.5	PASS
Band4	1413	5	VL	NT	-9.67	-0.005581	±2.5	PASS
Band4	1413	5	VN	NT	-8.49	-0.004900	±2.5	PASS
Band4	1413	5	VH	NT	-11.12	-0.006418	±2.5	PASS
Band5	4182	5	VL	NT	-8.63	-0.010318	±2.5	PASS
Band5	4182	5	VN	NT	-7.68	-0.009182	±2.5	PASS
Band5	4182	5	VH	NT	-7.20	-0.008608	±2.5	PASS

				Temperat	ure			
Band	Channel	SubTest	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9400	1	NV	-30	-11.49	-0.006112	±2.5	PASS
Band2	9400	1	NV	-20	-11.71	-0.006229	±2.5	PASS
Band2	9400	1	NV	-10	-12.55	-0.006676	±2.5	PASS
Band2	9400	1	NV	0	-11.72	-0.006234	±2.5	PASS
Band2	9400	1	NV	10	-11.83	-0.006293	±2.5	PASS
Band2	9400	1	NV	20	-7.05	-0.003750	±2.5	PASS
Band2	9400	1	NV	30	-9.39	-0.004995	±2.5	PASS
Band2	9400	1	NV	40	-9.59	-0.005101	±2.5	PASS
Band2	9400	1	NV	50	-10.77	-0.005729	±2.5	PASS
Band2	9400	2	NV	-30	-9.48	-0.005043	±2.5	PASS
Band2	9400	2	NV	-20	-9.83	-0.005229	±2.5	PASS
Band2	9400	2	NV	-10	-11.05	-0.005878	±2.5	PASS
Band2	9400	2	NV	0	-12.09	-0.006431	±2.5	PASS
Band2	9400	2	NV	10	-9.86	-0.005245	±2.5	PASS
Band2	9400	2	NV	20	-12.39	-0.006590	±2.5	PASS
Band2	9400	2	NV	30	-8.50	-0.004521	±2.5	PASS
Band2	9400	2	NV	40	-8.40	-0.004468	±2.5	PASS
Band2	9400	2	NV	50	-10.62	-0.005649	±2.5	PASS
Band2	9400	3	NV	-30	-10.78	-0.005734	±2.5	PASS



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Band2	9400	3	NV	-20	-10.61	-0.005644	±2.5	PASS
Band2	9400	3	NV	-10	-9.90	-0.005266	±2.5	PASS
Band2	9400	3	NV	0	-9.68	-0.005149	±2.5	PASS
Band2	9400	3	NV	10	-9.30	-0.004947	±2.5	PASS
Band2	9400	3	NV	20	-11.04	-0.005872	±2.5	PASS
Band2	9400	3	NV	30	-10.57	-0.005622	±2.5	PASS
Band2	9400	3	NV	40	-11.46	-0.006096	±2.5	PASS
Band2	9400	3	NV	50	-9.53	-0.005069	±2.5	PASS
Band2	9400	4	NV	-30	-10.94	-0.005819	±2.5	PASS
Band2	9400	4	NV	-20	-8.68	-0.004617	±2.5	PASS
Band2	9400	4	NV	-10	-10.17	-0.005410	±2.5	PASS
Band2	9400	4	NV	0	-9.05	-0.004814	±2.5	PASS
Band2	9400	4	NV	10	-9.36	-0.004979	±2.5	PASS
Band2	9400	4	NV	20	-10.59	-0.005633	±2.5	PASS
Band2	9400	4	NV	30	-10.04	-0.005340	±2.5	PASS
Band2	9400	4	NV	40	-10.44	-0.005553	±2.5	PASS
Band2	9400	4	NV	50	-10.32	-0.005489	±2.5	PASS
Band2	9400	5	NV	-30	-8.99	-0.004782	±2.5	PASS
Band2	9400	5	NV	-20	-9.73	-0.005176	±2.5	PASS
Band2	9400	5	NV	-10	-8.94	-0.004755	±2.5	PASS
Band2	9400	5	NV	0	-11.32	-0.006021	±2.5	PASS
Band2	9400	5	NV	10	-7.62	-0.004053	±2.5	PASS
Band2	9400	5	NV	20	-9.25	-0.004920	±2.5	PASS
Band2	9400	5	NV	30	-9.05	-0.004814	±2.5	PASS
Band2	9400	5	NV	40	-9.63	-0.005122	±2.5	PASS
Band2	9400	5	NV	50	-9.36	-0.004979	±2.5	PASS
Band4	1413	5	NV	-30	-8.83	-0.005096	±2.5	PASS
Band4	1413	5	NV	-20	-9.36	-0.005402	±2.5	PASS
Band4	1413	5	NV	-10	-11.57	-0.006678	±2.5	PASS
Band4	1413	5	NV	0	-10.49	-0.006054	±2.5	PASS
Band4	1413	5	NV	10	-8.21	-0.004739	±2.5	PASS
Band4	1413	5	NV	20	-9.11	-0.005258	±2.5	PASS
Band4	1413	5	NV	30	-10.27	-0.005928	±2.5	PASS
Band4	1413	5	NV	40	-10.18	-0.005876	±2.5	PASS
Band4	1413	5	NV	50	-10.54	-0.006083	±2.5	PASS
Band5	4182	5	NV	-30	-7.43	-0.008883	±2.5	PASS
Band5	4182	5	NV	-20	-7.70	-0.009206	±2.5	PASS
Band5	4182	5	NV	-10	-7.45	-0.008907	±2.5	PASS
Band5	4182	5	NV	0	-7.32	-0.008752	±2.5	PASS
Band5	4182	5	NV	10	-9.44	-0.011286	±2.5	PASS
Band5	4182	5	NV	20	-7.22	-0.008632	±2.5	PASS
Band5	4182	5	NV	30	-8.92	-0.010665	±2.5	PASS
Band5	4182	5	NV	40	-8.33	-0.009959	±2.5	PASS
Band5	4182	5	NV	50	-9.10	-0.010880	±2.5	PASS



9. RADIATED SPURIOUS EMISSIONS

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5. RADIATED SPURIOUS EIVII

RULE PART(S)

FCC: §2.1053, §22.917, §24.238, §27.53

LIMIT

Part §22.917(a), §24.238(a), §27.53(h)

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.

TEST PROCEDURE

KDB 971168 D01 Section 7

Below 1GHz test procedure as below:

- 1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- 5. Taking the record of maximum spurious emission.
- 6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.
- 10. Calculate power in dBm by the following formula:

ERP(dBm) = Pg(dBm) - cable loss (dB) + antenna gain (dBd)

Where:

Pd is the dipole equivalent power, Pg is the generator output into the substitution antenna, and the antenna gain is the gain of the substitute antenna used relative to either a half-wave dipole (dBd) or an isotropic source (dBi). The substitute level is equal to Pg [dBm] – cable loss [dB]. The calculated Pd levels are then compared to the absolute spurious emission limit of -13 dBm which is equivalent to the required minimum attenuation of 43 + 10log10(Power [Watts]).

Above 1GHz test procedure as below:

- 1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- 5. Taking the record of maximum spurious emission.
- 6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.



10. Calculate power in dBm by the following formula:

EIRP(dBm) = Pg(dBm) - cable loss (dB) + antenna gain (dBi)

EIRP=ERP+2.15dB

Where: Pg is the generator output power into the substitution antenna.

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

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

= P(W)- [43 + 10log(P)] (dB)

 $= [30 + 10\log(P)] (dBm) - [43 + 10\log(P)] (dB)$

= -13dBm.

 $EIRP[dBm] = E[dB\mu V/m] - 95.25$

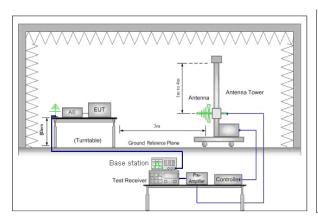
 $E[dB\mu V/m] = 95.25 - EIRP[dBm]$

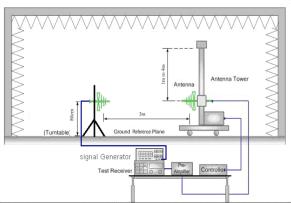
 $E[dB\mu V/m] = 82.25$

NOTE 1: Radiated spurious emissions were investigated below 30 MHz, 30 MHz – 1 GHz and above 1 GHz. There were no emissions found on below 30 MHz and 30 MHz – 1 GHz. Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site.

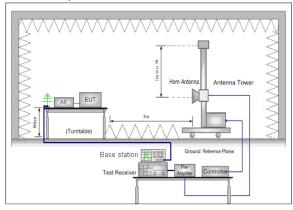
Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the one of tests made in an open field based on KDB 414788.

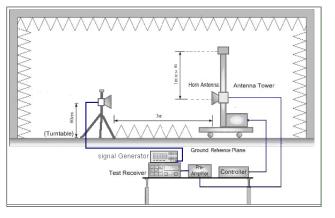
TEST SETUP
Test Setup for Below 1 GHz





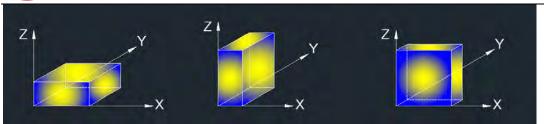
Test Setup for Above 1 GHz





X axis, Y axis, Z axis positions:

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Note 1: The manufacturer has recommended that the EUT only be used in the desktop (horizontal) orientation; therefore, all radiated testing was performed in desktop orientation.

TEST ENVIRONMENT

Temperature	22.9°C	Relative Humidity	58.3%
Atmosphere Pressure	101kPa	Test Voltage	/



RESULTS

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WCDMA Band 2

HSDPA- Low Channel- Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3705.000	60.36	-4.48	55.88	82.25	-26.37	peak
2	5550.000	54.45	0.98	55.43	82.25	-26.82	peak
3	7410.000	51.74	6.39	58.13	82.25	-24.12	peak
4	9255.000	53.82	10.59	64.41	82.25	-17.84	peak
5	11115.000	38.00	15.20	53.20	82.25	-29.05	peak
6	13920.000	32.87	21.79	54.66	82.25	-27.59	peak

HSDPA- Low Channel- Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3705.000	63.80	-4.48	59.32	82.25	-22.93	peak
2	5550.000	55.01	0.98	55.99	82.25	-26.26	peak
3	7410.000	56.25	6.39	62.64	82.25	-19.61	peak
4	9255.000	55.15	10.59	65.74	82.25	-16.51	peak
5	11910.000	35.09	17.72	52.81	82.25	-29.44	peak
6	13950.000	32.22	21.86	54.08	82.25	-28.17	peak

HSDPA- Mid Channel- Horizontal

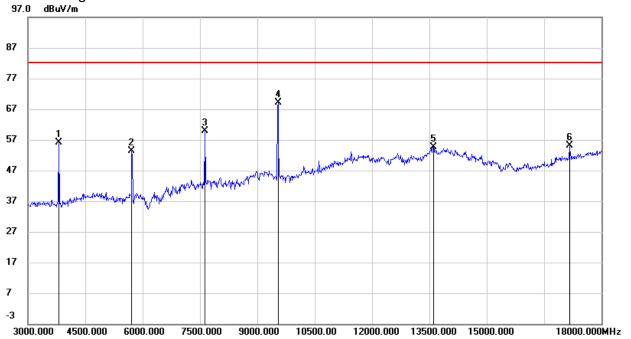
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3750.000	57.51	-4.38	53.13	82.25	-29.12	peak
2	5640.000	51.68	1.24	52.92	82.25	-29.33	peak
3	7515.000	50.91	6.33	57.24	82.25	-25.01	peak
4	9390.000	53.60	10.64	64.24	82.25	-18.01	peak
5	11880.000	34.73	17.63	52.36	82.25	-29.89	peak
6	13650.000	33.37	21.21	54.58	82.25	-27.67	peak

HSDPA- Mid Channel- Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3750.000	63.35	-4.38	58.97	82.25	-23.28	peak
2	5625.000	55.24	1.20	56.44	82.25	-25.81	peak
3	7515.000	54.90	6.33	61.23	82.25	-21.02	peak
4	9390.000	53.54	10.64	64.18	82.25	-18.07	peak
5	13680.000	33.02	21.29	54.31	82.25	-27.94	peak
6	17970.000	28.65	25.51	54.16	82.25	-28.09	peak



HSDPA- High Channel- Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3810.000	60.41	-4.24	56.17	82.25	-26.08	peak
2	5715.000	51.98	1.46	53.44	82.25	-28.81	peak
3	7635.000	53.51	6.33	59.84	82.25	-22.41	peak
4	9540.000	58.38	10.80	69.18	82.25	-13.07	peak
5	13605.000	33.48	21.12	54.60	82.25	-27.65	peak
6	17160.000	33.57	21.48	55.05	82.25	-27.20	peak

HSDPA- High Channel- Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3810.000	65.70	-4.24	61.46	82.25	-20.79	peak
2	5715.000	56.49	1.46	57.95	82.25	-24.30	peak
3	7635.000	57.45	6.33	63.78	82.25	-18.47	peak
4	9540.000	56.45	10.80	67.25	82.25	-15.00	peak
5	11460.000	36.44	16.46	52.90	82.25	-29.35	peak
6	13920.000	33.17	21.79	54.96	82.25	-27.29	peak



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WCDMA Band 4

HSDPA- Low Channel- Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3420.000	64.22	-5.01	59.21	82.25	-23.04	peak
2	5130.000	53.75	0.55	54.30	82.25	-27.95	peak
3	6840.000	54.02	5.89	59.91	82.25	-22.34	peak
4	8565.000	58.83	7.31	66.14	82.25	-16.11	peak
5	10275.000	51.27	12.54	63.81	82.25	-18.44	peak
6	11985.000	38.90	17.92	56.82	82.25	-25.43	peak

HSDPA- Low Channel- Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3420.000	63.51	-5.01	58.50	82.25	-23.75	peak
2	5130.000	55.66	0.55	56.21	82.25	-26.04	peak
3	6840.000	57.08	5.89	62.97	82.25	-19.28	peak
4	8565.000	59.57	7.31	66.88	82.25	-15.37	peak
5	10275.000	48.57	12.54	61.11	82.25	-21.14	peak
6	11985.000	41.78	17.92	59.70	82.25	-22.55	peak

HSDPA- Mid Channel- Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3465.000	62.22	-4.98	57.24	82.25	-25.01	peak
2	5190.000	51.51	0.60	52.11	82.25	-30.14	peak
3	6930.000	52.68	6.34	59.02	82.25	-23.23	peak
4	8655.000	56.52	7.97	64.49	82.25	-17.76	peak
5	10395.000	47.19	12.78	59.97	82.25	-22.28	peak
6	12120.000	36.98	17.87	54.85	82.25	-27.40	peak

HSDPA- Mid Channel- Vertical

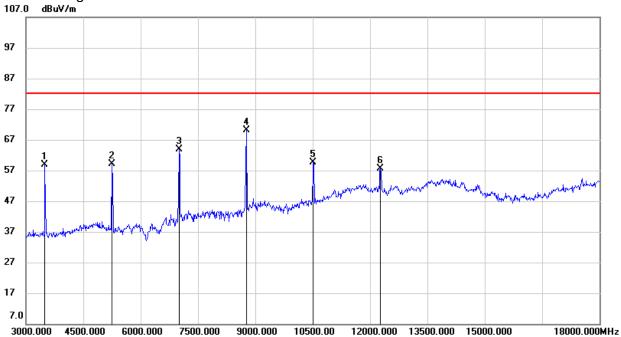
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3465.000	61.90	-4.98	56.92	82.25	-25.33	peak
2	5190.000	55.51	0.60	56.11	82.25	-26.14	peak
3	6930.000	55.25	6.34	61.59	82.25	-20.66	peak
4	8655.000	60.30	7.97	68.27	82.25	-13.98	peak
5	10395.000	46.11	12.78	58.89	82.25	-23.36	peak
6	12135.000	39.58	17.86	57.44	82.25	-24.81	peak

HSDPA- High Channel- Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3495.000	64.97	-4.96	60.01	82.25	-22.24	peak
2	5250.000	52.77	0.64	53.41	82.25	-28.84	peak
3	7005.000	53.65	6.69	60.34	82.25	-21.91	peak
4	8760.000	58.03	8.73	66.76	82.25	-15.49	peak
5	10515.000	47.04	13.04	60.08	82.25	-22.17	peak
6	12255.000	37.40	17.78	55.18	82.25	-27.07	peak



HSDPA- High Channel- Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3495.000	63.91	-4.96	58.95	82.25	-23.30	peak
2	5250.000	58.39	0.64	59.03	82.25	-23.22	peak
3	7005.000	57.17	6.69	63.86	82.25	-18.39	peak
4	8760.000	61.47	8.73	70.20	82.25	-12.05	peak
5	10515.000	46.49	13.04	59.53	82.25	-22.72	peak
6	12270 000	39 83	17 77	57 60	82 25	-24 65	peak



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WCDMA Band 5

HSDPA- Low Channel- Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1648.000	57.43	-12.22	45.21	82.25	-37.04	peak
2	2476.000	52.93	-8.61	44.32	82.25	-37.93	peak
3	3295.000	48.74	-6.32	42.42	82.25	-39.83	peak
4	4951.000	44.71	-0.34	44.37	82.25	-37.88	peak
5	7642.000	38.09	5.69	43.78	82.25	-38.47	peak
6	9316.000	36.35	9.87	46.22	82.25	-36.03	peak

HSDPA- Low Channel- Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1648.000	56.75	-12.22	44.53	82.25	-37.72	peak
2	2476.000	55.30	-8.61	46.69	82.25	-35.56	peak
3	3295.000	50.23	-6.32	43.91	82.25	-38.34	peak
4	4123.000	50.40	-3.90	46.50	82.25	-35.75	peak
5	4951.000	49.26	-0.34	48.92	82.25	-33.33	peak
6	9001.000	36.45	9.74	46.19	82.25	-36.06	peak

HSDPA- Mid Channel- Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1675.000	60.85	-12.13	48.72	82.25	-33.53	peak
2	2512.000	52.72	-8.45	44.27	82.25	-37.98	peak
3	3349.000	48.42	-6.19	42.23	82.25	-40.02	peak
4	4186.000	45.59	-3.61	41.98	82.25	-40.27	peak
5	5023.000	43.61	-0.12	43.49	82.25	-38.76	peak
6	9217.000	37.82	9.83	47.65	82.25	-34.60	peak

HSDPA- Mid Channel- Vertical

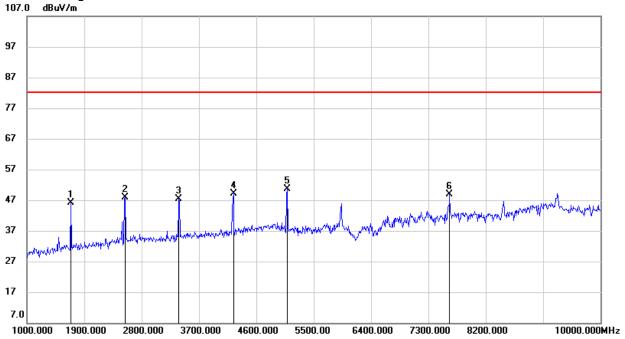
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1675.000	56.84	-12.13	44.71	82.25	-37.54	peak
2	2512.000	56.15	-8.45	47.70	82.25	-34.55	peak
3	3349.000	51.76	-6.19	45.57	82.25	-36.68	peak
4	4186.000	51.93	-3.61	48.32	82.25	-33.93	peak
5	5014.000	49.11	-0.13	48.98	82.25	-33.27	peak
6	9217.000	38.78	9.83	48.61	82.25	-33.64	peak

HSDPA- High Channel- Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1693.000	62.13	-12.08	50.05	82.25	-32.20	peak
2	2539.000	56.13	-8.37	47.76	82.25	-34.49	peak
3	4240.000	48.50	-3.35	45.15	82.25	-37.10	peak
4	5932.000	42.87	1.65	44.52	82.25	-37.73	peak
5	7633.000	40.53	5.68	46.21	82.25	-36.04	peak
6	9325.000	39.57	9.87	49.44	82.25	-32.81	peak







No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1684.000	58.30	-12.10	46.20	82.25	-36.05	peak
2	2539.000	56.29	-8.37	47.92	82.25	-34.33	peak
3	3385.000	53.45	-6.11	47.34	82.25	-34.91	peak
4	4240.000	52.60	-3.35	49.25	82.25	-33.00	peak
5	5086.000	50.75	-0.05	50.70	82.25	-31.55	peak
6	7633.000	43.14	5.68	48.82	82.25	-33.43	peak

Remark: All the modulation WCDMA, HSDPA, HSUPA have been tested at low, middle, high channels, only the worst modulation show in the test report.

END OF REPORT