TEST REPORT

DT&C Co., Ltd.

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1. Report No : DRTFCC1902-0062(2)

2. Customer

• Name : NComputing Co., Ltd

Dt&C

- Address : 8th FI., (JEI-Platz B/D) 186 Gasan digital 1-ro.Geumcheon-gu, Seoul, South Korea 08502
- 3. Use of Report : FCC Original Grant
- 4. Product Name / Model Name : Network Virtual Desktop / NCFG00118 FCC ID : SMJRX3PFG
- 5. Test Method Used : KDB558074 D01v05r01, ANSI C63.10-2013 Test Specification : FCC Part 15 Subpart C.247
- 6. Date of Test : 2019.02.11 ~ 2019.02.26
- 7. Testing Environment : See appended test report.
- 8. Test Result : Refer to the attached test result.

Affirmation	Tested by	,	Reviewed by	Abs	
	Name : SunGeun Lee	(Signal)	Name : Geunki Son	(Signature)	

The test results presented in this test report are limited only to the sample supplied by applicant and the use of this test report is inhibited other than its purpose. This test report shall not be reproduced except in full, without the written approval of DT&C Co., Ltd.

2019.03.14.

DT&C Co., Ltd.

If this report is required to confirmation of authenticity, please contact to report@dtnc.net

Test Report Version

Test Report No.	Date	Description
DRTFCC1902-0062	Feb. 28, 2019	Initial issue
DRTFCC1902-0062(1)	Mar. 05, 2019	Update of Customer's Information
DRTFCC1902-0062(2)	Mar. 14, 2019	Update KDB558074 specification

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1. EUT DESCRIPTION

FCC Equipment Class	Digital Transmission System(DTS)
Product	Network Virtual Desktop
Model Name	NCFG00118
Add Model Name	NCFG00218
Hardware Version	Rev.1.0
Software Version	4.14
Power Supply	DC 5.1 V
Frequency Range	• 802.11b/g/n(20 MHz) : 2412 MHz ~ 2462 MHz • 802.11n(40 MHz) : 2422 MHz ~ 2452 MHz
Max. RF Output Power	2.4GHz Band • 802.11b : 15.94 dBm • 802.11g : 23.45 dBm • 802.11n (HT20) :23.70 dBm • 802.11n (HT40) :22.83 dBm
Modulation Type	• 802.11b: CCK, DSSS • 802.11g/n: OFDM
Antenna Specification	Antenna type: Internal Antenna Antenna gain: 3.5 dBi

2. INFORMATION ABOUT TESTING

2.1 Test mode

Test	Worst case data rate	Tested Frequency(MHz)				
mode		Lowest	Middle	Highest		
TM 1	802.11b 1 Mbps	2412	2437	2462		
TM 2	802.11g 6 Mbps	2412	2437	2462		
ТМ 3	802.11n(HT20) MCS 0	2412	2437	2462		
TM 4	802.11n(HT40) MCS 0	2422	2437	2452		

Note 1: The worst case data rate is determined as above test mode according to the power measurements. Note 2: The power measurement results for all modes and data rate were reported.

2.2 Auxiliary equipment

Equipment	Model No.	Serial No.	Manufacturer	Note
Wired Keyboard	yboard KB216p -		DELL	-
Wired Mouse MS116p		-	DELL	-
HP Monitor HSTND-9161-N 3CM7480LX6		HP	-	
Earphone	-	-	SAMSUNG	-

2.3 Tested environment

Temperature	: 20 ~ 26 °C
Relative humidity content	: 40 ~ 45 %
Details of power supply	: DC 5.1 V

2.4 EMI suppression Device(s) / Modifications

EMI suppression device(s) added and/or modifications made during testing \rightarrow None

2.5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with requirements of ANSI C63.4-2014 and ANSI C63.10-2013. All measurement uncertainty values are shown with a coverage factor of k = 2 to indicate a 95 % level of confidence.

Test items	Measurement uncertainty
Transmitter Output Power	0.7 dB (The confidence level is about 95 %, $k = 2$)
Conducted spurious emission	0.9 dB (The confidence level is about 95 %, k = 2)
AC conducted emission	2.4 dB (The confidence level is about 95 %, k = 2)
Radiated spurious emission (1 GHz Below)	5.1 dB (The confidence level is about 95 %, k = 2)
Radiated spurious emission (1 GHz ~ 18 GHz)	5.4 dB (The confidence level is about 95 %, k = 2)
Radiated spurious emission (18 GHz Above)	5.3 dB (The confidence level is about 95 %, k = 2)

3. SUMMARY OF TESTS

FCC Part Section(s)	Parameter	Limit	Test Condition	Status Note 1
15.247(a)	6 dB Bandwidth	> 500 kHz		С
15.247(b)	Transmitter Output Power	< 1 Watt		С
15.247(d)	Out of Band Emissions / Band Edge	20 dBc in any 100 kHz BW Conducted		С
15.247(e)	Transmitter Power Spectral < 8 dBm/3 kHz			С
-	RSS-Gen [6.6]	Occupied Bandwidth (99 %)		NA
15.247(d) 15.205 15.209	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	FCC 15.209 limits	Radiated	C Note 3
15.207	AC Line Conducted Emissions	FCC 15.207 limits	AC Line Conducted	С
15.203 Antenna Requirements		FCC 15.203	-	С

Note 1: C=Comply NC=Not Comply NT=Not Tested NA=Not Applicable

Note 2: For radiated emission tests below 30 MHz were performed on semi-anechoic chamber which is correlated with OATS. Note 3: This test item was performed in each axis and the worst case data was reported.



4. TEST METHODOLOGY

The measurement procedures described in the ANSI C63.10-2013 and the guidance provided in KDB558074 D01v05r01 were used in measurement of the EUT.

The EUT was tested per the guidance of KDB558074 D01v05r01. And ANSI C63.10-2013 was used to reference appropriate EUT setup and maximizing procedures of radiated spurious emission and AC line conducted emission testing.

4.1 EUT configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT exercise

The EUT was operated in the test mode to fix the Tx frequency that was for the purpose of the measurements. According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

4.3 General test procedures

Conducted Emissions

The power-line conducted emission test procedure is not described on the KDB558074 D01v05r01.

So this test was fulfilled with the requirements in Section 6.2 of ANSI C63.10-2013.

The EUT is placed on the wooden table, which is 0.8 m above ground plane and the conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-peak and Average detector

Radiated Emissions

Basically the radiated tests were performed with KDB558074 D01v05r01. But some requirements and procedures like test site requirements, EUT setup and maximizing procedure were fulfilled with the requirements in Section 5 and 6 of the ANSI C63.10 as stated on section 12.1 of the KDB558074 D01V05R01.

The EUT is placed on a non-conductive table. For emission measurements at or below 1 GHz, the table height is 80 cm. For emission measurements above 1 GHz, the table height is 1.5 m. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the highest emission, the relative positions of the EUT were rotated through three orthogonal axes.

4.4 Description of test modes

The EUT has been tested with all modes of operating conditions to determine the worst case emission characteristics. A test program is used to control the EUT for staying in continuous transmitting mode.



5. INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

6. FACILITIES AND ACCREDITATIONS

6.1 Facilities

DT&C Co., Ltd.

The 3 m test site and conducted measurement facility used to collect the radiated data are located at the 42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 17042. The test site complies with the requirements of § 2.948 according to ANSI C63.4-2014.

- FCC MRA Accredited Test Firm No. : KR0034

www.dtnc.net		
Telephone	:	+ 82-31-321-2664
FAX	:	+ 82-31-321-1664

6.2 Equipment

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, loop, horn. Spectrum analyzers with pre-selectors and peak, quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers. Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

7. ANTENNA REQUIREMENTS

7.1 According to FCC 47 CFR §15.203

An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

The antenna is permanently printed on the PCB. Therefore this E.U.T Complies with the requirement of §15.203

8. TEST RESULT

8.1 6dB bandwidth

Test Requirements and limit, §15.247(a)

The bandwidth at 6 dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the receive antenna while the EUT is operating in transmission mode at the appropriate frequencies.

The minimum permissible 6 dB bandwidth is 500 kHz.

Test Configuration:

Refer to the APPENDIX I.

Test Procedure:

- KDB558074 D01v05r01 Section 8.2
- ANSI C63.10-2013 Section 11.8.2
- 1. Set resolution bandwidth (RBW) = 100 kHz.
- 2. Set the video bandwidth (VBW) \ge 3 x RBW.
- (RBW : 100 kHz / VBW : 300 kHz)
- 3. Detector = **Peak**.
- 4. Trace mode = **Max hold**.
- 5. Sweep = **Auto couple**.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Test Results: Comply

Test Mode	Frequency	Test Results[MHz]		
	Lowest	8.10		
TM 1	Middle	8.12		
	Highest	8.12		
	Lowest	16.33		
TM 2	Middle	16.36		
	Highest	15.15		
	Lowest	17.27		
TM 3	Middle	17.55		
	Highest	15.21		
	Lowest	35.26		
TM 4	Middle	35.88		
	Highest	35.42		



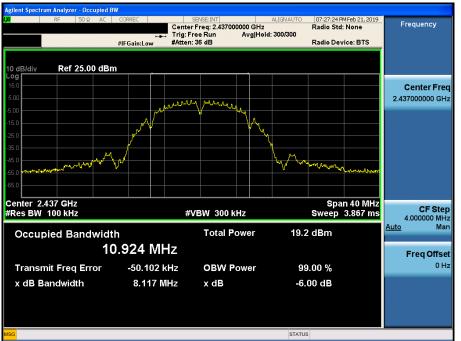
RESULT PLOTS

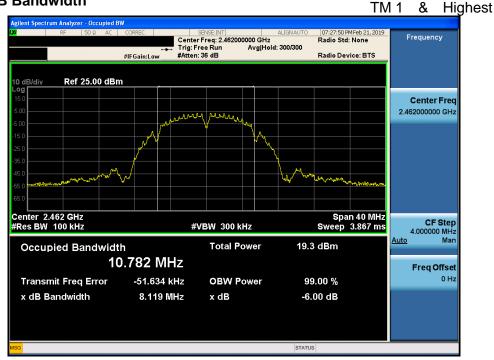
6 dB Bandwidth



6 dB Bandwidth

TM 1 & Middle







6 dB Bandwidth



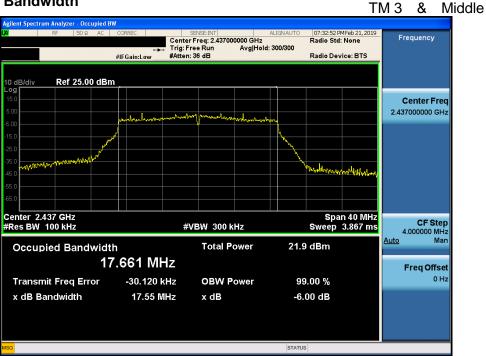
TM 2 & Middle



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6 dB Bandwidth



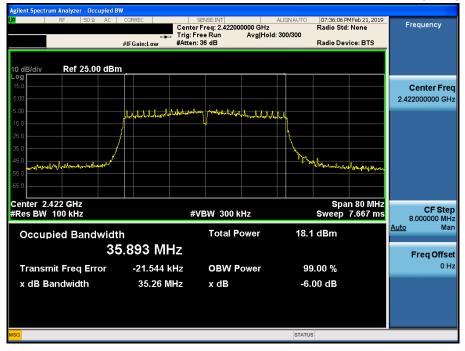


Dt&C



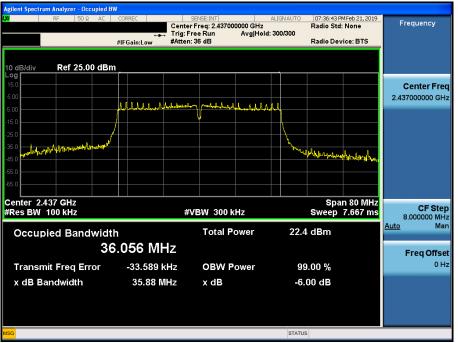
🛈 Dt&C

TM 4 & Lowest



6 dB Bandwidth

TM 4 & Middle



$\mathbf{\overline{U}}$ Dt&C

6 dB Bandwidth

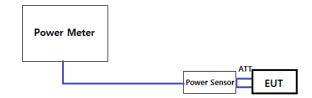
TM 4 & Highest gilent Spectrum Analyzer - Occupied BW 07:37:19 PM Feb 21, 2019 Radio Std: None Center Freq: 2.4520000 GHz Center Freq: 2.45200000 GHz Trig: Free Run Avg|Hold: 300/300 #IFGain:Low #Atten: 36 dB ALIGN AUTO Frequency Radio Device: BTS Ref 25.00 dBm B/div **Center Freq** 2.452000000 GHz مأرارار t alas the back and Mary Marker Marker Marker Kennothelan Center 2.452 GHz #Res BW 100 kHz Span 80 MHz Sweep 7.667 ms CF Step 8.000000 MHz Man #VBW 300 kHz Auto **Occupied Bandwidth** Total Power 18.1 dBm 35.971 MHz Freq Offset 0 Hz Transmit Freq Error -11.325 kHz **OBW Power** 99.00 % x dB Bandwidth 35.42 MHz x dB -6.00 dB STATUS

8.2 Maximum peak conducted output power

Test Requirements and limit, §15.247(b)

The maximum permissible conducted output power is 1 Watt.

Test Configuration



Test Procedure

- KDB558074 D01v05r01 Section 8.3.1.3
- ANSI C63.10-2013 Section 11.9.1.3

PKPM1 Peak power meter method

- 1. The maximum conducted output powers were measured using a broadband peak RF power meter which has greater video bandwidth than DUT's DTS bandwidth and utilize a fast-responding diode detector.
- KDB558074 D01v05r01 Section 8.3.2.3
- ANSI C63.10-2013 Section 11.9.2.3.2

Method AVGPM-G

 The average conducted output powers were measured using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since this measurement is made only during the ON time of the transmitter, no duty cycle correction is required.



Test Results: Comply

Freq. (MHz)			Maxim	um Peak Co	onducted Ou	Output Power (dBm) for <u>802.11b</u>				
	Det.	Data Rate [Mbps]								
		1	2	5.5	11	-	-	-	-	
2412	PK	15.92	15.53	15.75	15.63	-	-	-	-	
2412	AV	12.10	12.02	12.08	12.09	-	-	-	-	
2437	PK	15.94	15.88	15.78	15.61	-	-	-	-	
2437	AV	12.14	12.13	12.11	12.08	-	-	-	-	
2462	PK	15.90	15.82	15.81	15.61	-	-	-	-	
	AV	12.14	12.10	12.12	12.08	-	-	-	-	

From			Maxim	um Peak Co	onducted Ou	tput Power	(dBm) for <u>80</u>	02.11g	
Freq. (MHz)	Det.				Data Rat	e [Mbps]			
		6	9	12	18	24	36	48	54
0.440	PK	23.26	23.19	22.61	22.53	21.63	21.60	20.93	20.81
2412	AV	12.77	12.76	12.71	12.75	12.76	12.74	12.75	12.73
2437	PK	23.45	23.39	23.23	22.89	22.64	22.58	23.42	22.11
2437	AV	15.11	15.10	15.08	15.09	15.06	15.07	15.05	15.10
2462	PK	22.90	21.31	21.58	22.35	22.63	22.86	22.17	22.19
2402	AV	13.84	13.82	13.83	13.80	13.81	13.82	13.79	13.77

From			Maximum	Peak Condu	cted Outpu	t Power (dBı	m) for <u>802.1</u>	1n(HT20)	
Freq. (MHz)	Det.				Data Ra	te [MCS]			
		0	1	2	3	4	5	6	7
0.440	PK	23.53	23.22	23.15	23.28	23.11	22.66	23.36	23.33
2412	AV	14.95	14.77	14.85	14.92	14.88	14.92	14.93	14.90
2437	PK	23.70	23.45	23.39	23.49	23.53	23.12	23.58	23.49
2437	AV	14.90	14.86	14.89	14.88	14.85	14.84	14.89	14.83
2462	PK	22.56	22.49	22.37	22.35	22.43	22.26	22.41	22.31
2402	AV	13.56	13.54	15.50	13.55	13.53	13.55	13.54	13.52

Free			Maximum	Peak Condu	ucted Outpu	t Power (dBı	m) for <u>802.1</u>	1n(HT40)	
Freq. (MHz)	Det.								
		0	1	2	3	4	5	6	7
0.400	PK	19.68	19.31	19.18	19.47	19.58	19.47	19.22	19.40
2422	AV	10.92	10.80	10.81	10.81	10.61	10.66	10.70	10.64
2437	PK	22.83	22.26	22.10	22.01	22.09	22.18	22.27	22.35
2437	AV	14.75	14.72	14.74	14.73	14.70	14.71	14.73	14.74
2452	PK	19.63	19.17	19.12	19.18	19.39	19.25	19.38	19.25
2492	AV	10.87	10.85	10.76	10.80	10.84	10.85	10.86	10.78

8.3 Maximum power spectral density

Test requirements and limit, §15.247(e)

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Test Configuration:

Refer to the APPENDIX I.

Test Procedure

- KDB558074 D01v05r01 Section 8.4
- ANSI C63.10-2013 Section 11.10.2

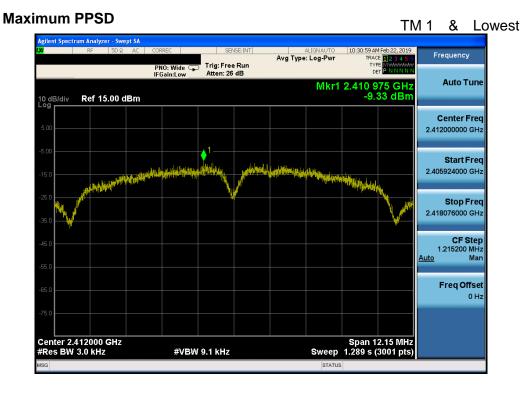
Method PKPSD (peak PSD)

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to **1.5 times** the DTS bandwidth.
- 3. Set the RBW to : **3 kHz** ≤ RBW ≤ **100 kHz**
- 4. Set the VBW \geq 3 x RBW
- 5. Detector = **Peak**
- 6. Sweep time = **Auto couple**
- 7. Trace mode = Max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the **peak marker function** to determine the maximum amplitude level within the RBW.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

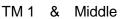
Test Results: Comply

Test Mode	Frequency	RBW	PKPSD [dBm]
	Lowest	3 kHz	-9.33
TM 1	Middle	3 kHz	-8.27
	Highest	3 kHz	-10.29
	Lowest	3 kHz	-10.33
TM 2	Middle	3 kHz	-7.60
	Highest	3 kHz	-8.83
	Lowest	3 kHz	-11.35
TM 3	Middle	3 kHz	-8.07
	Highest	3 kHz	-9.17
	Lowest	3 kHz	-15.36
TM 4	Middle	3 kHz	-12.77
	Highest	3 kHz	-12.45

RESULT PLOTS









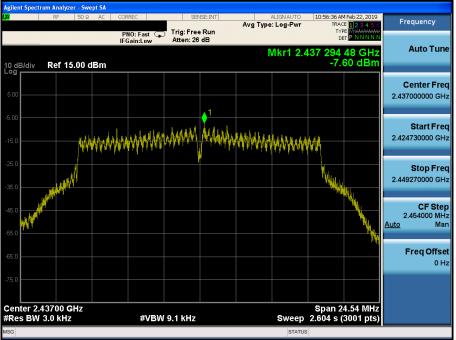




Maximum PPSD



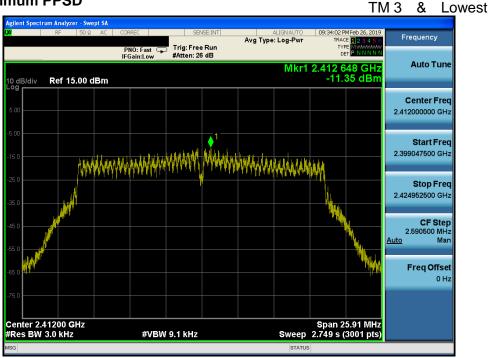




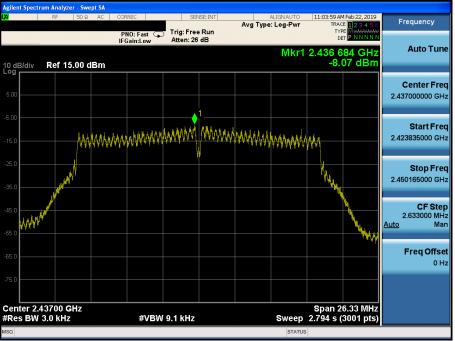




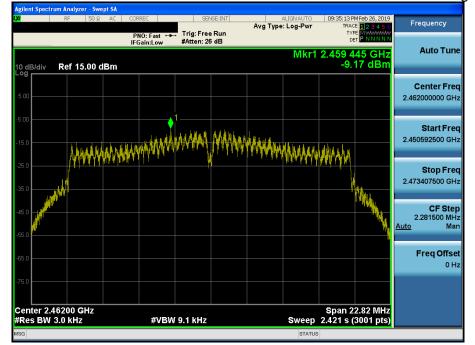
Maximum PPSD



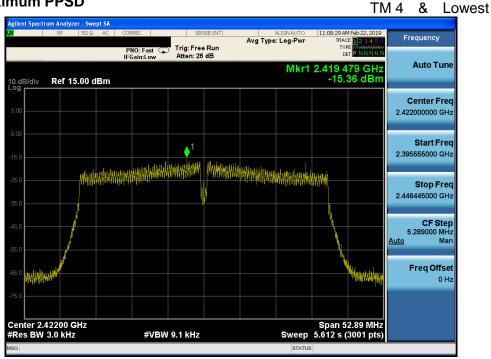






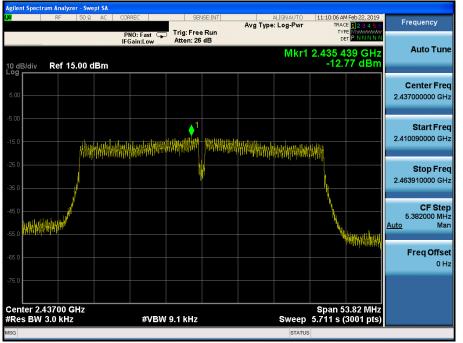


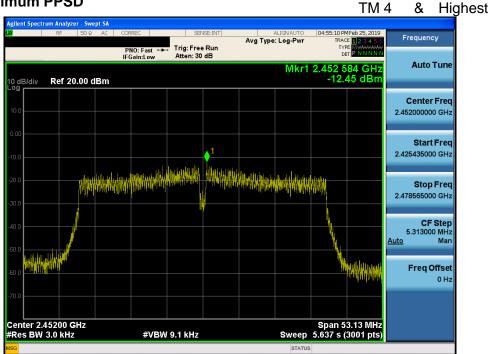
Maximum PPSD



Maximum PPSD

TM4 & Middle







8.4 Out of band emissions at the band edge / conducted spurious emissions

Test requirements and limit, §15.247(d)

§15.247(d) specifies that in any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions:

If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to **15.247(b)(3)** requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated **by at least 20 dB** relative to the maximum measured in-band peak PSD level.

If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to **15.247(b)(3)** requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in band average PSD level. In either case, attenuation to levels below the general emission limits specified in §15.209(a) is not required.

Test Configuration:

Refer to the APPENDIX I.

Test Procedure

- KDB558074 D01v05r01 Section 8.5
- ANSI C63.10-2013 Section 11.11

- Reference level measurement

1. Set instrument center frequency to DTS channel center frequency.

- 2. Set the span to \geq 1.5 times the DTS bandwidth.
- 3. Set the $\overrightarrow{RBW} = 100 \text{ kHz}$.
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = Peak.
- 6. Sweep time = Auto couple.
- 7. Trace mode = Max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum PSD level.

- Emission level measurement

- 1. Set the center frequency and span to encompass frequency range to be measured.
- 2. Set the RBW = 100 kHz. (Actual 1 MHz , See below note)
- 3. Set the VBW ≥ 3 x RBW. (Actual 3 MHz, See below note)
- 4. Detector = **Peak**.
- 5. Ensure that the number of measurement points \geq Span / RBW.
- 6. Sweep time = Auto couple.
- 7. Trace mode = **Max hold.**
- 8. Allow the trace to stabilize. (this may take some time, depending on the extent of the span)
- 9. Use the peak marker function to determine the maximum amplitude level.

Note : The conducted spurious emission was tested with below settings. Frequency range: 9 kHz ~ 30 MHz RBW = 100 kHz, VBW = 300 kHz, SWEEP TIME = AUTO, DETECTOR = PEAK, TRACE = MAX HOLD, SWEEP POINT : 40001

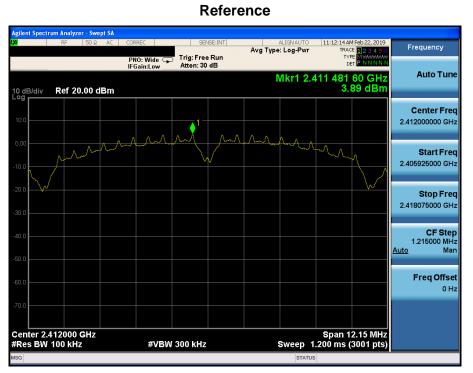
Frequency range: 30 MHz ~ 10 GHz, 10 GHz ~26.5 GHz RBW = 1 MHz, VBW = 3 MHz, SWEEP TIME = AUTO, DETECTOR = PEAK, TRACE = MAX HOLD, SWEEP POINT : 40001

LIMIT LINE = 20 dB below of the reference level of above measurement procedure Step 2. (RBW = 100 kHz, VBW = 300 kHz)

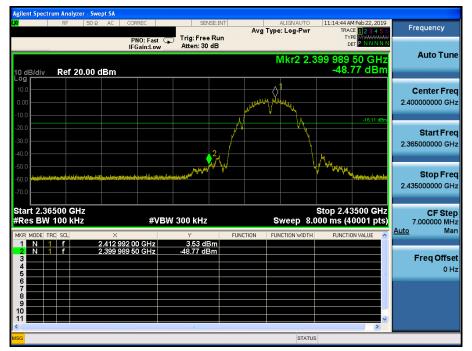
If the emission level with above setting was close to the limit (ie, less than 3 dB margin) then zoom scan is required using RBW = 100 kHz, VBW = 300 kHz, SPAN = 100 MHz and BINS = 2001 to get accurate emission level within 100 kHz BW.

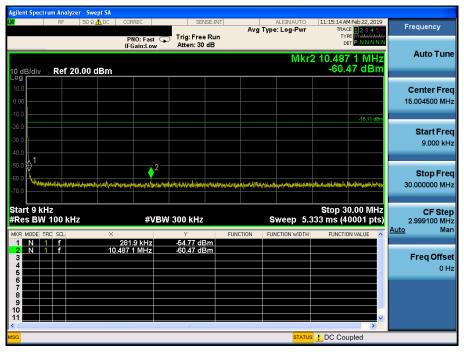
RESULT PLOTS

TM 1 & Lowest



Low Band-edge





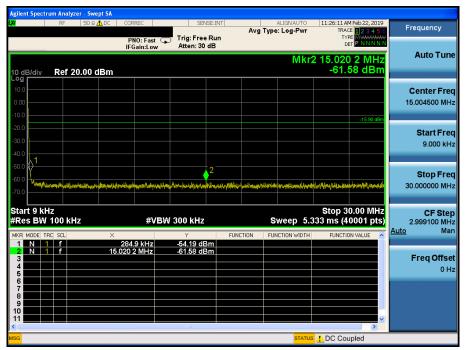
Agilent Spectrum Analyzer - Swe	pt SA				
LXI RF 50 Ω	AC CORREC	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	11:18:38 AM Feb 22, 2019 TRACE 1 2 3 4 5 6	Frequency
	PNO: Fast C IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Type. Log-t wi		
10 dB/div Ref 20.00 d	Bm		Mkr	2 5.766 99 GHz -43.51 dBm	Auto Tune
Log 10.0 -10.0	^1				Center Freq 5.015000000 GHz
-20.0 -30.0 -40.0			2		Start Freq 30.000000 MHz
-50.0					Stop Freq 10.000000000 GHz
Start 30 MHz #Res BW 1.0 MHz	#VB	W 3.0 MHz	Sweep 18	Stop 10.000 GHz 67 ms (40001 pts)	CF Step 997.000000 MHz
MKR MODE TRC SCL	× 2.413 58 GHz	7.19 dBm	NCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Man
2 N 1 f 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	5.766 99 GHz	-43.51 dBm			Freq Offset 0 Hz
6 7 8 9 10					
				~	
MSG			STATU	3	

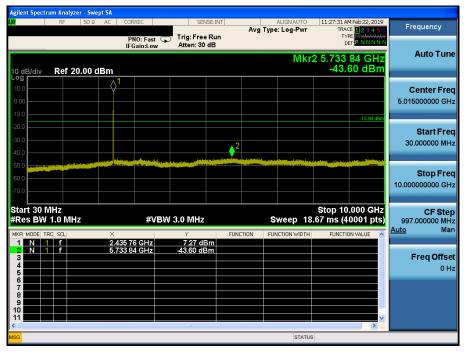


TM 1 & Middle

Reference



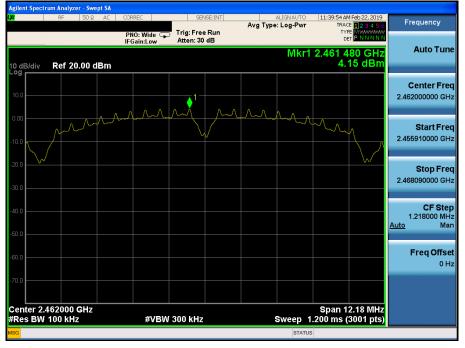




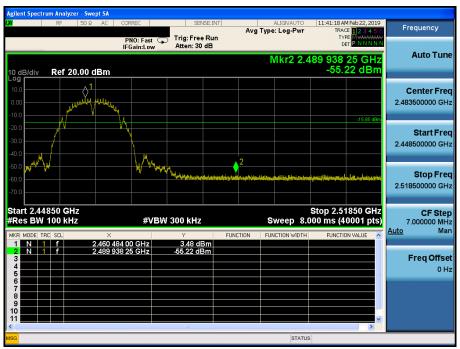
Agilent Spectrum Analyze								
RF RF		ORREC	SENSE: Trig: Free Ru	Avg	ALIGNAUTO Type: Log-Pwr	11:30:12 AM Feb 2 TRACE TYPE	3456	Frequency
		PNO: Fast 🕞 FGain:Low	Atten: 30 dB			DET P N	NNNN	
10 dB/div Ref 20	.00 dBm				Mkr3 1	7.029 375		Auto Tun
_og	.00 0.511							
10.0								Center Fre
0.00								17.50000000 GH
20.0						-15	5.90 dBm	
30.0			• 3				8	Start Fre
-40.0						and the second		10.00000000 GH
50.0	aline Internet Section							
60.0								Stop Fre
70.0								25.00000000 Gł
start 10.000 GHz						Stop 25.000	CHZ	
Res BW 1.0 MHz	2	#VBW	/ 3.0 MHz		Sweep 40	.00 ms (4000		CF Ste 1.50000000 Gł
MKR MODE TRC SCL	×		Y	FUNCTION	FUNCTION WIDTH	FUNCTION VAL	JE 🔼	<u>Auto</u> Ma
1 N 1 f 2 N 1 f	24.740 8 21.456 2	250 GHz	-31.46 dBm -33.82 dBm				_	
3 N 1 f	17.029 3	75 GHz	-38.20 dBm					Freq Offs
5							=	01
7								
8 9								
10							~	
			ш)	>	
SG					STATUS			

TM 1 & Highest

Reference

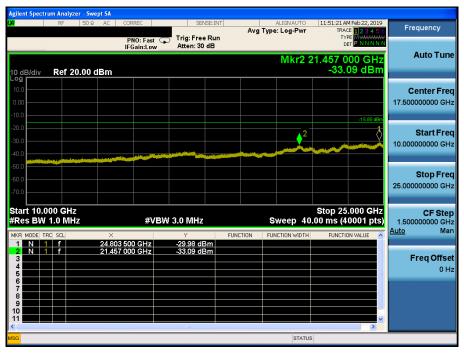


High Band-edge



Agilent Spectrum Analyzer - Swe					
🗶 RF 50 Ω 🖉	LDC CORREC	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	11:41:47 AM Feb 22, 2019 TRACE 1 2 3 4 5 6	Frequency
	PNO: Fast C IFGain:Low	Trig: Free Run Atten: 30 dB		DET P N N N N N	
			Mk	r2 1.881 2 MHz	Auto Tune
10 dB/div Ref 20.00 d	IBm			-60.97 dBm	
10.0					Center Freq
0.00					15.004500 MHz
-10.0				-15.85 dBm	
-20.0					Start Freq
-30.0					9.000 kHz
-40.0					
-50.0					Stop Freq
-60.0	unanther training by white her phase	ant considering and a signed sugar	trepi thelightet accounts the watches itherspit	and a part of part the state of the section	30.000000 MHz
-70.0					
Start 9 kHz			.	Stop 30.00 MHz	CF Step
#Res BW 100 kHz		W 300 kHz		33 ms (40001 pts)	2.999100 MHz Auto Man
MKR MODE TRC SCL	× 281.9 kHz	-53.55 dBm	UNCTION FUNCTION WIDTH	FUNCTION VALUE	
2 N 1 f	1.881 2 MHz	-60.97 dBm			Freq Offset
4					0 Hz
6				=	
7 8					
9 10					
11				~	
<				>	

Agilent Spectrum Analyzer - Swept S	٨				
LXI RF 50 Ω A(C CORREC	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	11:43:11 AM Feb 22, 2019 TRACE 1 2 3 4 5 6	Frequency
	PNO: Fast 🖵	Trig: Free Run Atten: 30 dB		TYPE MWWWWWW DET P N N N N N	
	IFGain:Low	Atten: 30 dB			Auto Tune
			IVIKT	3 5.692 96 GHz -43.76 dBm	
10 dB/div Ref 20.00 dBr	n 			40.70 GDIII	
10.0					Center Freq
0.00					5.015000000 GHz
-10.0				-15.85 dBm	
-20.0					Start Freq
-30.0					30.000000 MHz
-40.0	<mark>2</mark>	\			00.000000 11112
-50.0	a harrista de la companya de la comp				
-60.0					Stop Freq
-70.0					10.00000000 GHz
Start 30 MHz #Res BW 1.0 MHz	-43 (D) 141	3.0 MHz	0	Stop 10.000 GHz .67 ms (40001 pts)	CF Step
			-		997.000000 MHz Auto Man
	× 2.460 94 GHz	Y FUI 7.38 dBm	TTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> mari
2 N 1 f	3.162 57 GHz	-43.54 dBm			E 0/5
3 N 1 f	5.692 96 GHz	-43.76 dBm			Freq Offset 0 Hz
5					0 Hz
7					
8					
10					
<		IIII		>	
MSG			STATUS	1	



Dt&C

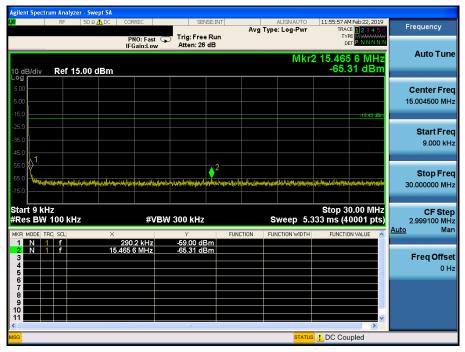
TM 2 & Lowest

Reference



Low Band-edge





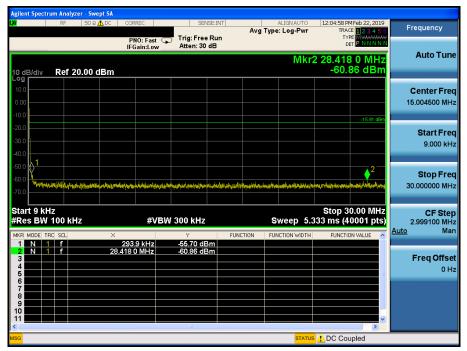
Agilent Spectrum Analyzer - Swept SA					
ΙΧΙ RF 50 Ω AC		sense:INT	ALIGNAUTO Avg Type: Log-Pwr	11:57:45 AM Feb 22, 2019 TRACE 1 2 3 4 5 6 TYPE MWWWWW	Frequency
		atten: 26 dB		DET P N N N N N	
10 dB/div Ref 15.00 dBm	,		Mkr4	1.208 20 GHz -50.48 dBm	Auto Tune
Log → ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	1			-18.43 dBm	Center Freq 5.015000000 GHz
-25.0 -35.0 -45.0	²		Leader that has not and a state of the		Start Freq 30.000000 MHz
-55.0 -65.0 -75.0					Stop Freq 10.000000000 GHz
Start 30 MHz #Res BW 1.0 MHz	#VBW 3.0) MHz	Sweep 18.	Stop 10.000 GHz 67 ms (40001 pts)	CF Step 997.000000 MHz
MKR MODE TRC SCL X		Y FUNCT	ION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Man
2 N 1 F 3. 3 N 1 F 5. 4 N 1 F 1. 5	617 46 GHz -4 768 48 GHz -4	14.23 dBm 16.81 dBm 10.48 dBm			Freq Offset 0 Hz
6 7 8 9 10					
				~	
p=x MSG			STATUS		

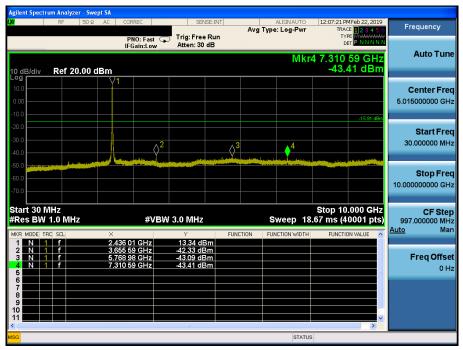


TM 2 & Middle

Reference



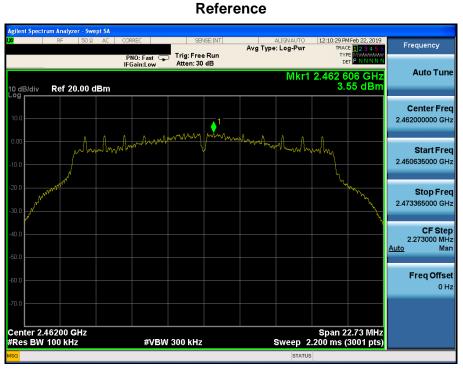




Agilent Spectrum Analyzer - Swept SA					
ιχι RF 50 Ω AC	CORREC	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	12:08:53 PM Feb 22, 2019 TRACE 1 2 3 4 5 6 TYPE MWWWWW	Frequency
		rig: Free Run Atten: 30 dB		DET P N N N N N	
10 dB/div Ref 20.00 dBm			Mkr3 1	9.064 125 GHz -37.65 dBm	Auto Tune
10.0 0.00 -10.0					Center Freq 17.500000000 GHz
-20.0	J ((unper provide provide and provide an		32	-15.91 dBm	Start Freq 10.000000000 GHz
-50.0 -60.0 -70.0					Stop Freq 25.000000000 GHz
Start 10.000 GHz #Res BW 1.0 MHz	#VBW 3.		•	Stop 25.000 GHz .00 ms (40001 pts)	CF Step 1.500000000 GHz Auto Man
2 N 1 f 21.4	98 250 GHz -	31.19 dBm 32.97 dBm	CTION FUNCTION WIDTH	FUNCTION VALUE	
3 N 1 f 19.04 4 5 5	54 125 GHz -	37.65 dBm			Freq Offset 0 Hz
6 7 8 8					
9 10 11				<u> </u>	
MSG			STATUS	,	

Dt&C

TM 2 & Highest



High Band-edge

