Agilent Spectrum Analyzer - Swept S					
XIRL RF 50 Ω 🗘 DO		SENSE:INT	ALIGN OFF Avg Type: Log-Pwr	01:11:20 PM Nov 26, 2019	Frequency
Center Freq 15.004500	PNO: Fast IFGain:Low	Trig: Free Run Atten: 26 dB	Avg Type. Log-r wi	TRACE 123456 TYPE MWWWWW DET PPPPP	
10 dB/div Ref 15.00 dBn	n		1	Vkr1 281.9 kHz -51.15 dBm	Auto Tune
5.00 -5.00 -15.0				-10.92 dBm	Center Freq 15.004500 MHz
-25.0					Start Fred 9.000 kHz
-65.0	ารูกรุง _เ นาเอาที่มีสุดคาะสิ่งใจมหารุงสุดสุด	retripmine to the internet internet when a	NydayhadaananganehingharyhaMashilisiiwada	กไรกระบบการที่ งกระบบคุณไม่มี โดงกับสมุรณ	Stop Fred 30.000000 MHz
Start 9 kHz #Res BW 100 kHz	#VBW	300 kHz	Sweep 5.3	Stop 30.00 MHz 333 ms (40001 pts)	CF Step 2.999100 MH Auto Mar
MKR MODE TRC SCL	× 281.9 kHz	Y FUN -51.15 dBm	CTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Mar
2 3 4 5					Freq Offse 0 H:
6					
		18		 >	
MSG			STATUS	DC Coupled	

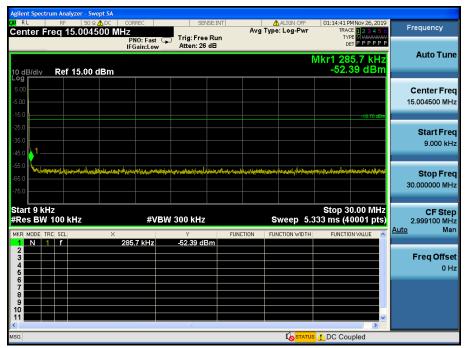
Agilent Spectrum Analyzer - Swept SA					
UXI RL RF 50Ω AC	CORREC	SENSE:INT	ALIGN OFF Avg Type: Log-Pwr	01:11:28 PM Nov 26, 2019 TRACE 1 2 3 4 5 6	Frequency
Center Freq 5.01500000	PNO: Fast 😱	Trig: Free Run	Avg Type. Log-t wi		
	IFGain:Low	Atten: 26 dB			Auto Tune
			Mkr	5 2.378 68 GHz	Autorune
10 dB/div Ref 15.00 dBm				-36.39 dBm	
5.00	1				Center Freq
-5.00					5.015000000 GHz
	2				5.01500000 GH2
-15.0				-18.92 dBm	
-25.0					Start Freq
-35.0	an at tele and stress till a second		tiltthe cost		30.000000 MHz
-45.0					
-55.0					
-65.0					Stop Freq
-75.0					10.00000000 GHz
Start 30 MHz				Stop 10.000 GHz	CF Step
#Res BW 1.0 MHz	#VBW	3.0 MHz	Sweep 18	.67 ms (40001 pts)	997.000000 MHz
MKR MODE TRC SCL X			UNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Man
	410 84 GHz 397 13 GHz	9.64 dBm -22.34 dBm			
3 N 1 f 2.3	387 41 GHz	-31.19 dBm			Freq Offset
4 N 1 f 23	385 66 GHz 378 68 GHz	-34.00 dBm -36.39 dBm			0 Hz
6					
7 8					
9					
10				~	
<		III		>	
MSG			Ko STATUS		

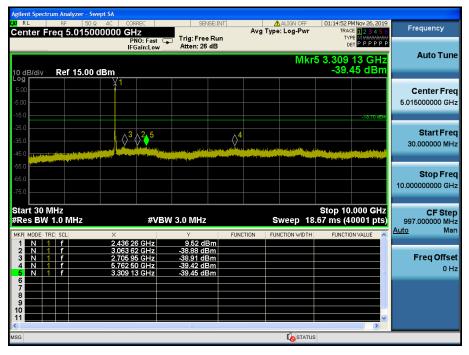


TM 3 & Middle

Reference







Agilent Spect	rum Analyzer	- Swept SA						
LXI RL		50Ω AC	CORREC	SENSE		ALIGN OFF	01:14:59 PM Nov 26, 20	
Center F	req 17.50	0000000	0 GHz PNO: Fast IFGain:Low	Trig: Free F Atten: 26 d	lun	g Type: Log-Pwr	TRACE 1234 TYPE WWWW DET PPPP	₩₩
10 dB/div	Ref 15.0	00 dBm				Mkr3 2	4.532 375 GH -27.59 dBi	
5.00							-18.70	Center Freq 17.500000000 GHz
-25.0 -35.0 -45.0								Start Freq 10.000000000 GHz
-55.0 -65.0 -75.0								Stop Freq 25.000000000 GHz
Start 10.0 #Res BW			#VE	3W 3.0 MHz		Sweep 40	Stop 25.000 GH .00 ms (40001 pt	s) 1.500000000 GHz
MKR MODE T	RC SCL		0 250 GHz	۲ -25.92 dBn		FUNCTION WIDTH	FUNCTION VALUE	Auto Man
2 N /	1 f 1 f	24.29 24.532	7 250 GHz 2 375 GHz	-27.00 dBn -27.59 dBn	1			Freq Offset 0 Hz
6 7 8 9 10 11								~
MSG				III		I o STATUS		

TM 3 & Highest

03:14:35 PMNov 26, 2019 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P P P P P Center Freq 2.462000000 GHz PNO:Fast IFGain:Low Atten: 26 dB ALIGN OFF Frequency Auto Tune Mkr1 2.463 285 GHz 1.84 dBm Ref 15.00 dBm 10 dB/div Center Freq 2.462000000 GHz . MA Autor man ١ Start Freq 2.450174750 GHz Stop Freq 2.473825250 GHz CF Step 2.365050 MHz Man <u>Auto</u> Freq Offset 0 Hz Center 2.46200 GHz #Res BW 100 kHz Span 23.65 MHz Sweep 2.400 ms (3001 pts) #VBW 300 kHz

High Band-edge



Reference

Agilent Spectru	um Analyzer - Swe RF 50 ຊ 2		SENSE:	INT	ALIGN OFF	03:15:09 PM Nov 2	5 2019	
	eq 15.0045			Avg	Type: Log-Pwr	TRACE 123 TYPE MWW DET P P	456	Frequency
		IFGain:Low	Atten: 26 dE					Auto Tune
10 dB/div	Ref 15.00 d	Bm				Mkr1 298.4 -51.64 d		Auto Tune
5.00								Center Freq
-5.00								15.004500 MHz
-15.0						-10.	16 dBm	
-35.0								Start Freq 9.000 kHz
-45.0 1								9.000 KHZ
-55.0	mandhalamanatha	denkforskellen et bei verkagter bande	carly the first interest of the first	hand and the second	himment the particular states of the	ومعادية المراد والمالية والم	Manah	Stop Freq
-65.0								30.000000 MHz
Start 9 kH #Res BW		#VE	3W 300 kHz		Sweep 5.3	Stop 30.00 333 ms (40001	pts)	CF Step 2.999100 MHz
MKR MODE TR		× 298.4 kHz	۲ -51.64 dBm	FUNCTION	FUNCTION WIDTH	FUNCTION VALU		i <u>to</u> Man
2		230.4 KHZ	-01.04 dBiii					Freq Offset
4								0 Hz
6								
8								
10								
<			Ш				>	
MSG						DC Coupled		

Mg RL RF SO & AC CORREC SERSE:INT Abalten OFF 03:35:18 PM Nov 26, 20:9 Frequen Center Freq 5.015000000 GHz Trig: Free Run IFGain:Low Trig: Free Run Atten: 26 dB Avg Type: Log-Pwr Tree IP P P P P Frequen Tree IP P P P P Auto 10 dB/div Ref 15.00 dBm -39.34 dBm -39.34 dBm Auto	cy Tune
Trig: Free Run IFGain:Low Ref 15.00 dBm Trig: Free Run Atten: 26 dB Mkr5 2.712 63 GHz -39.34 dBm	Tune
Mkr5 2.712 68 GHz 10 dB/div Ref 15.00 dBm -39.34 dBm	Tune
10 dB/diy Ref 15.00 dBm -39.34 dBm	
	r Erog
500 Center	
-15.0	0 0112
-25.0 A	
Star	t Freq
	0 MHz
Stor	Freq
	00 GHz
-75.0	
Start 30 MHz Stop 10.000 GHz CF	Step
#Res BW 1.0 MHz #VBW 3.0 MHz Sweep 18.67 ms (40001 pts) 997.00000	ю мніz
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE	Man
1 N 1 f 2.459 69 GHz 9.27 dBm 2 N 1 f 2.489 35 GHz -32.18 dBm	
3 N 1 f 2.486 11 GHz 32.39 dBm Freq 0 4 N 1 f 3.146 87 GHz 39.31 dBm	
5 N 1 f 2.712 68 GHz -39.34 dBm	0 Hz
MSG Contraction of the status	



TM 4 & Lowest

Reference



Low Band-edge



Agilent Spectrum Analyzer - Swept S X RL RF 50 Ω ▲ DO Center Freq 15.004500	CORREC	SENSE:INT	ALIGN OFF	03:21:56 PM Nov 26, 2019 TRACE 2 3 4 5 6	Frequency
10 dB/div Ref 10.00 dBr	PNO: Fast 🕞 IFGain:Low	Trig: Free Run Atten: 20 dB		TRACE 1 2 3 4 5 6 TYPE MUMUUU DET PPPPPP VIkr1 281.9 kHz -58.53 dBm	Auto Tune
-10.0				-21.04 dBm	Center Freq 15.004500 MHz
-30.0 -40.0 -60.0 <mark></mark>					Start Freq 9.000 kHz
-60.0 -70.0 -80.0	Waaroo ayayayaa karightiin gologo mgaag	มใ <i>ก. การเมารูป</i>		งมาร์นูกัสโซส์สร่ามไรขุมสูงสุดรูปหลุ่มรายจากครองไม่สุไ	Stop Freq 30.000000 MHz
	X		Sweep 5.3	Stop 30.00 MHz 333 ms (40001 pts) FUNCTION VALUE	CF Step 2.999100 MH Auto Mar
1 N 1 f 2	281.9 kHz	-58.53 dBm			Freq Offset 0 Hz
7 8 9 10					
MSG		illi		DC Coupled	

9	Analyzer - Swept SA						
Center Fre	RF 50 Ω AC q 5.015000000	CORREC GH7	SENSE:IN		ALIGN OFF Type: Log-Pwr	03:22:31 PM Nov 26, 2019 TRACE 1 2 3 4 5 6	Frequency
		PNO: Fast G	Trig: Free Run #Atten: 20 dB			DET P P P P P	
		II OUIIIEON			Mkr	5 2.509 79 GHz	Auto Tune
10 dB/div	Ref 10.00 dBm					-38.69 dBm	
	1 X						Center Freq
-10.0							5.015000000 GHz
-20.0						-21.04 dBm	
-30.0	(²	j					
-40.0							Start Freq 30.000000 MHz
-50.0		designed to the second state of the second	and the second second second	ndation and an	A DESCRIPTION OF THE OWNER	and the providence of the second s	30.000000 WH2
-60.0	ine solution and the little little	and the second second				Manager and the second s	
-70.0							Stop Freq
-80.0							10.00000000 GHz
						04 40 000 OU	
Start 30 MH #Res BW 1.		#VBV	V 3.0 MHz		Sweep 18	Stop 10.000 GHz .67 ms (40001 pts)	CF Step 997.000000 MHz
MKR MODE TRC			Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Man
1 N 1 2 N 1	f 2.37	25 54 GHz 73 20 GHz	6.83 dBm -33.98 dBm				
3 N 1	f 2.37	0 96 GHz 5 08 GHz	-36.26 dBm -38.63 dBm				Freq Offset
4 N 5 N 1	f 2.48	9 79 GHz	-38.69 dBm				0 Hz
6							
8							
10							
<						>	
MSG							

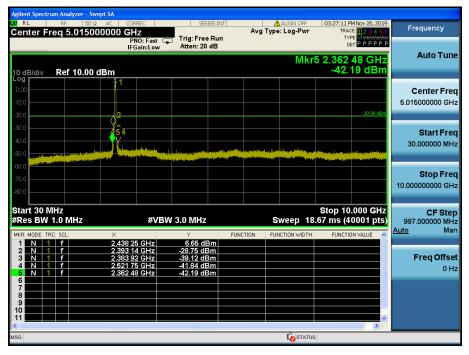


TM 4 & Middle

Reference



Agilent Spectrum Analyzer - Swep Δ RL RF 50 Ω Δ Center Freq 15.00450	DC CORREC	SENSE:IN	Avg	ALIGN OFF	03:27:02 PMNov 26, 201 TRACE 1 2 3 4 5 TYPE M WWWW DET P P P P P	6 Frequency
10 dB/div Ref 10.00 dB	IFGain:Low	Atten: 20 dB		ſ	/kr1 287.9 kHz -57.30 dBm	Auto Tune
Log 0.00 -10.0 -20.0					-20.96 dBr	Center Freq 15.004500 MHz
-30.0						Start Freq 9.000 kHz
-60.0	ปกระเทศโรงรายไปสามาร์ไประการที่สามาร์	lanstein de Antonio Adalation fan Antonio	n aga hungan kada kada na pangan ka	Hjulleynafanudud hanings antid	yapadaataan tisip attaatiin ayoo ahaa	Stop Freq 30.000000 MHz
Start 9 kHz #Res BW 100 kHz	X	W 300 kHz Y	FUNCTION	Sweep 5.3	Stop 30.00 MHz 33 ms (40001 pts	2.999100 MHz Auto Man
1 N 1 f 2 3 4 4 5 6 9	287.9 kHz	-57.30 dBm				Freq Offset 0 Hz
7 8 9 9 10 10 11 11						
MSG				I STATUS	L DC Coupled	



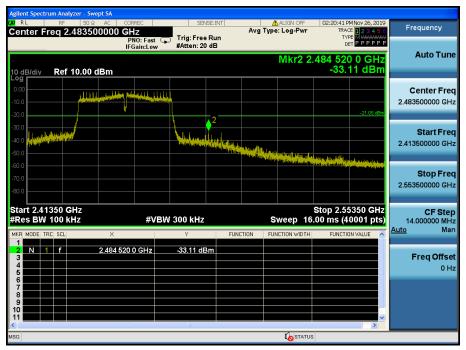
Agilent Spectrum Analyzer - Swept SA					
	0 GHz		ALIGN OFF	03:27:18 PM Nov 26, 2019 TRACE 1 2 3 4 5 6	Frequency
	PNO: Fast Trig: Fro IFGain:Low Atten: 2			DET PPPPP	
10 dB/div Ref 10.00 dBm			Mkr3 2	3.716 000 GHz -34.95 dBm	Auto Tune
-10.0				-20.96 dBm	Center Freq 17.500000000 GHz
-30.0				3 ² ♦	Start Freq 10.000000000 GHz
-60.0 -70.0 -80.0					Stop Freq 25.00000000 GHz
Start 10.000 GHz #Res BW 1.0 MHz	#VBW 3.0 MH			Stop 25.000 GHz 00 ms (40001 pts)	CF Step 1.50000000 GHz Auto Man
2 N 1 f 24.11 3 N 1 f 23.71	9 000 GHz -31.86 o 3 875 GHz -32.48 o 6 000 GHz -34.95 o	dBm	FUNCTION WIDTH	FUNCTION VALUE	Freq Offset
4 5 6 7 9 9 10 11					0 Hz
MSG			K STATUS		

TM 4 & Highest

Reference



High Band-edge



Agilent Spectr	um Analyzer - Swej RF 50 Q A										
	eq 15.0045	00 MHz	_	sense:IN			ALIGN OFF	TRAC	MNov 26, 2019	Frequency	
		PNO: IFGain		tten: 20 dB	·					Auto Tu	no
10 dB/div	Ref 10.00 d	Bm							1.9 kHz 87 dBm	Auto Tu	ne
Log 0.00										Center Fr	eq
-10.0										15.004500 M	Hz
-20.0									-21.05 dBm		
-40.0										Start Fr	
-50.0 1										9.000 k	Hz
-60.0	و المان من	Naveral March State	والمحمد والمتحد والمتحمد والمتحمد والمتحمد والمتحم والمتحم والمتحم والمتحم والمتحم والمتحم والمتحم والمتحم وال	uppersistent approved	iniudali facila.	والمتعادية المتعادية	and in the first of the	المراجع والمراجع	eservely an erse side	Stop Fr	-
-70.0	an and a line of the local section of the section of	Construction of the providence of	and a second of the second of	and and the second second						30.000000 M	
-80.0											
Start 9 kH #Res BW			#VBW 30	0 kHz		S	weep 5.3	Stop 3 33 ms (4	0.00 MHz 0001 pts)	CF St 2.999100 M	IHz
MKR MODE TR		× 281.9 k		Y 7.87 dBm	FUNCTIO	N FUN	ICTION WIDTH	FUNCTIO	IN VALUE	<u>Auto</u> M	lan
2		201.3 K		P.OP GDIII						Freq Offs	set
4											Hz
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8											
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<				110			r/				
MSG								L DC Cou	ipiea		

Agilent Spectrum Ana		SENSE:INT	ALIGN OFF	00.00.57.5444	
Va 10	50 Ω AC CORREC 5.015000000 GHz		Avg Type: Log-Pwr	02:20:57 PM Nov 26, 2019 TRACE 1 2 3 4 5 6	Frequency
	PNO: Fast IFGain:Low	Trig: Free Run #Atten: 20 dB			
			Mkr	5 2.395 88 GHz -31.47 dBm	Auto Tune
10 dB/div Ref	10.00 dBm			-31.47 UBIII	
0.00					Center Freq
-10.0					5.015000000 GHz
-20.0	5			-21.05 dBm	
-30.0					Start Freq
-40.0					30.000000 MHz
-50.0		ومتروبية ومقربين أليامه ويربيهم أمريك ويترو	م مربوع الألبان والمربوع عن المراجع المربوع والمراجع المربوع والمراجع المربوع والمراجع المربوع والمراجع المربوع من يستخذ المراجع		
-60.0					01 E
-70.0					Stop Freq 10.00000000 GHz
-80.0					10.00000000 GH2
Start 30 MHz				Stop 10.000 GHz	
#Res BW 1.0 N	/Hz #VE	W 3.0 MHz	Sweep 18	.67 ms (40001 pts)	CF Step 997.000000 MHz
MKR MODE TRC SCL	X	Y F	UNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Man
1 N 1 f 2 N 1 f	2.449 22 GHz 2.488 60 GHz	6.96 dBm -27.90 dBm			
3 N 1 f	2.492 09 GHz	-28.75 dBm			Freq Offset
4 N 1 f	2.502 56 GHz 2.395 88 GHz	-31.39 dBm -31.47 dBm		3	0 Hz
6					
8					
9					
11				×	
MSG					





8.5 Radiated spurious emissions

Test Requirements and limit, §15.247(d), §15.205, §15.209

In any 100 kHz bandwidth outside the operating frequency band, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 KHz bandwidth within the band. In case the emission fall within the restricted band specified on 15.205(a) and (b), then the 15.209(a) limit in the table below has to be followed.

• FCC Part 15.209(a) and (b)

Frequency (MHz)	Limit (uV/m)	Measurement Distance (meter)
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 – 30.0	30	30
30 ~ 88	100 **	3
88 ~ 216	150 **	3
216 ~ 960	200 **	3
Above 960	500	3

** Except as provided in 15.209(g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g. 15.231 and 15.241.

• FCC Part 15.205 (a): Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	MHz	GHz	GHz
0.009 ~ 0.110	8.41425 ~ 8.41475	108 ~ 121.94	1300 ~ 1427	4.5 ~ 5.15	14.47 ~ 14.5
0.495 ~ 0.505	12.29 ~ 12.293	123 ~ 138	1435 ~ 1626.5	5.35 ~ 5.46	15.35 ~ 16.2
2.1735 ~ 2.1905	12.51975 ~ 12.52025	149.9 ~ 150.05	1645.5 ~ 1646.5	7.25 ~ 7.75	17.7 ~ 21.4
4.125 ~ 4.128	12.57675 ~ 12.57725	156.52475 ~	1660 ~ 1710	8.025 ~ 8.5	22.01 ~ 23.12
4.17725 ~ 4.17775	13.36 ~ 13.41	156.52525	1718.8 ~ 1722.2	9.0 ~ 9.2	23.6 ~ 24.0
4.20725 ~ 4.20775	16.42 ~ 16.423	156.7 ~ 156.9	2200 ~ 2300	9.3 ~ 9.5	31.2 ~ 31.8
6.215 ~ 6.218	16.69475 ~ 16.69525	162.0125 ~ 167.17	2310 ~ 2390	10.6 ~ 12.7	36.43 ~ 36.5
6.26775 ~ 6.26825	16.80425 ~ 16.80475	167.72 ~ 173.2	2483.5 ~ 2500	13.25 ~ 13.4	Above 38.6
6.31175 ~ 6.31225	25.5 ~ 25.67	240 ~ 285	2655 ~ 2900		
8.291 ~ 8.294	37.5 ~ 38.25	322 ~ 335.4	3260 ~ 3267		
8.362 ~ 8.366	73 ~ 74.6	399.90 ~ 410	3332 ~ 3339		
8.37625 ~ 8.38675	74.8 ~ 75.2	608 ~ 614	3345.8 ~ 3358		
		960 ~ 1240	3600 ~ 4400		

• FCC Part 15.205(b): The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.

Test Configuration

Refer to the APPENDIX I.

Test Procedure

- 1. The EUT is placed on a non-conductive table, emission measurements at below 1 GHz, the table height is 80 cm and above 1 GHz, the table height is 1.5 m.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 1 or 3 m away from the receiving antenna, which is varied from 1 m to 4 m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.

- KDB558074 D01v05r02 - Section 8.6

- ANSI C63.10-2013 – Section 11.12

Peak Measurement

RBW = As specified in below table, VBW \ge 3 x RBW, Sweep = Auto, Detector = Peak, Trace mode = Max Hold until the trace stabilizes.

Frequency	RBW
9-150 kHz	200-300 Hz
0.15-30 MHz	9-10 kHz
30-1000 MHz	100-120 kHz
>1000 MHz	1 MHz

Average Measurement:

- 1. RBW = 1 MHz (unless otherwise specified).
- 2. VBW \geq 3 x RBW.
- 3. Detector = RMS (Number of points ≥ 2 x Span / RBW)
- 4. Averaging type = power. (i.e., RMS)
- 5. Sweep time = auto.
- 6. Perform a trace average of at least 100 traces.
- 7. A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:
- 1) If power averaging (RMS) mode was used in step 4, then the applicable correction factor is 10 log(1/D), where D is the duty cycle.
- 2) If linear voltage averaging mode was used in step 4, then the applicable correction factor is 20 log(1/D), where D is the duty cycle.
- 3) If a specific emission is demonstrated to be continuous (≥ 98 percent duty cycle) rather than turning on and off with the transmit cycle, then no duty cycle correction is required for that emission.

Duty Cycle Correction factor	
------------------------------	--

Test Mode	Date rate	Duty Cycle (D)	Duty Cycle Correction Factor (dB)
TM 1	5.5Mbps	0.9443	0.25
TM 2	6Mbps	0.9327	0.30
TM 3	MCS 0	0.9278	0.33
TM 4	MCS 0	0.8650	0.63

Note: Refer to the APPENDIX II for duty cycle plot.

Test Results: Comply

Tested Frequency	Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
	2389.20	Н	Х	PK	52.81	2.33	N/A	N/A	55.14	74.00	18.86
Lowest	2389.18	Н	Х	AV	42.11	2.33	0.25	N/A	44.69	54.00	9.31
Lowest	4824.22	Н	Х	PK	49.45	1.94	N/A	N/A	51.39	74.00	22.61
	4824.13	Н	Х	AV	39.26	1.94	0.25	N/A	41.45	54.00	12.55
Middle	4874.03	Н	Х	PK	49.70	2.10	N/A	N/A	51.80	74.00	22.20
wildule	4873.52	Н	Х	AV	39.27	2.10	0.25	N/A	41.62	54.00	12.38
	2484.42	Н	Х	PK	53.38	2.81	N/A	N/A	56.19	74.00	17.81
Highoot	2484.31	Н	Х	AV	43.27	2.81	0.25	N/A	46.33	54.00	7.67
Highest	4923.74	Н	Х	PK	50.28	2.12	N/A	N/A	52.40	74.00	21.60
	4924.20	Н	Х	AV	39.23	2.12	0.25	N/A	41.60	54.00	12.40

Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : TM 1

Note.

- 1. The radiated emissions were investigated 9kHz to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- 2. Sample Calculation.

Margin = Limit – Result / Result = Reading + T.F+ DCCF + DCF / T.F = AF + CL – AG Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain, DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor

3. Information of Distance Factor.

For finding emissions, the test distance might be reduced from 3m to 1m. In this case, the distance factor(-9.54dB) is applied to the result.



Tested Frequency	Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
	2389.55	V	Y	PK	58.94	2.34	N/A	N/A	61.28	74.00	12.72
Lowoot	2389.51	V	Y	AV	45.91	2.34	0.30	N/A	48.55	54.00	5.45
Lowest	4824.30	Н	Х	PK	49.93	1.94	N/A	N/A	51.87	74.00	22.13
	4824.12	Н	Х	AV	39.57	1.94	0.30	N/A	41.81	54.00	12.19
Middle	4873.81	Н	Х	PK	50.13	2.10	N/A	N/A	52.23	74.00	21.77
Middle	4873.83	Н	Х	AV	39.69	2.10	0.30	N/A	42.09	54.00	11.91
	2483.90	V	Y	PK	62.43	2.81	N/A	N/A	65.24	74.00	8.76
Llinghoot	2484.03	V	Y	AV	47.46	2.81	0.30	N/A	50.57	54.00	3.43
Highest	4924.18	Н	Х	PK	50.11	2.12	N/A	N/A	52.23	74.00	21.77
	4924.32	Н	Х	AV	39.49	2.12	0.30	N/A	41.91	54.00	12.09

Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : <u>TM 2</u>

Note.

1. The radiated emissions were investigated 9kHz to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.

2. Sample Calculation.

Margin = Limit – Result / Result = Reading + T.F + DCCF + DCF / T.F = AF + CL – AG Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain, DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor

3. Information of Distance Factor.

For finding emissions, the test distance might be reduced from 3m to 1m. In this case, the distance factor(-9.54dB) is applied to the result.



Tested Frequency	Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
	2389.46	V	Y	PK	64.51	2.34	N/A	N/A	66.85	74.00	7.15
Lowoot	2390.00	V	Y	AV	48.04	2.33	0.33	N/A	50.70	54.00	3.30
Lowest	4824.00	н	Х	PK	49.75	1.94	N/A	N/A	51.69	74.00	22.31
	4823.72	н	Х	AV	39.19	1.94	0.33	N/A	41.46	54.00	12.54
Middle	4873.54	н	Х	PK	50.34	2.10	N/A	N/A	52.44	74.00	21.56
Middle	4873.61	н	Х	AV	39.37	2.10	0.33	N/A	41.80	54.00	12.20
	2483.98	V	Y	PK	62.34	2.81	N/A	N/A	65.15	74.00	8.85
L l'altra et	2484.10	V	Y	AV	46.91	2.81	0.33	N/A	50.05	54.00	3.95
Highest	4924.13	н	Х	PK	49.37	2.12	N/A	N/A	51.49	74.00	22.51
	4924.48	н	Х	AV	39.07	2.12	0.33	N/A	41.52	54.00	12.48

Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : <u>TM 3</u>

Note.

1. The radiated emissions were investigated 9kHz to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.

2. Sample Calculation.

Margin = Limit – Result / Result = Reading + T.F + DCCF + DCF / T.F = AF + CL – AG Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain, DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor

3. Information of Distance Factor.

For finding emissions, the test distance might be reduced from 3m to 1m. In this case, the distance factor(-9.54dB) is applied to the result.



Tested Frequency	Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
	2389.19	V	Y	PK	62.02	2.33	N/A	N/A	64.35	74.00	9.65
Lowoot	2390.00	V	Y	AV	49.21	2.33	0.63	N/A	52.17	54.00	1.83
Lowest	4843.93	Н	Х	PK	50.15	2.00	N/A	N/A	52.15	74.00	21.85
	4843.73	н	Х	AV	39.47	2.00	0.63	N/A	42.10	54.00	11.90
Middle	4874.35	н	Х	PK	50.43	2.10	N/A	N/A	52.53	74.00	21.47
Middle	4874.40	н	Х	AV	39.62	2.10	0.63	N/A	42.35	54.00	11.65
	2488.40	V	Y	PK	64.88	2.80	N/A	N/A	67.68	74.00	6.32
L l'ala a st	2483.50	V	Y	AV	48.84	2.80	0.63	N/A	52.27	54.00	1.73
Highest	4903.89	н	Х	PK	49.99	2.12	N/A	N/A	52.11	74.00	21.89
	4903.70	н	Х	AV	39.36	2.12	0.63	N/A	42.11	54.00	11.89

Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : <u>TM 4</u>

Note.

1. The radiated emissions were investigated 9kHz to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.

2. Sample Calculation.

Margin = Limit – Result / Result = Reading + T.F + DCCF + DCF / T.F = AF + CL – AG Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain, DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor

3. Information of Distance Factor.

For finding emissions, the test distance might be reduced from 3m to 1m. In this case, the distance factor(-9.54dB) is applied to the result.

8.6 Power-line conducted emissions

Test Requirements and limit, §15.207

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 uH/50 ohm line impedance stabilization network(LISN).

Compliance with the provision of this paragraph shall on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower applies at the boundary between the frequency ranges.

Frequency Range	Conducted Limit (dBuV)					
(MHz)	Quasi-Peak	Average				
0.15 ~ 0.5	66 to 56 *	56 to 46 *				
0.5 ~ 5	56	46				
5 ~ 30	60	50				

* Decreases with the logarithm of the frequency

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Procedure

- 1. The EUT is placed on a wooden table 80 cm above the reference ground plane.
- 2. The EUT is connected via LISN to the test power supply.
- 3. The measurement results are obtained as described below:
- 4. Detectors Quasi Peak and Average Detector.

Test Results: Comply(Refer to next page.)

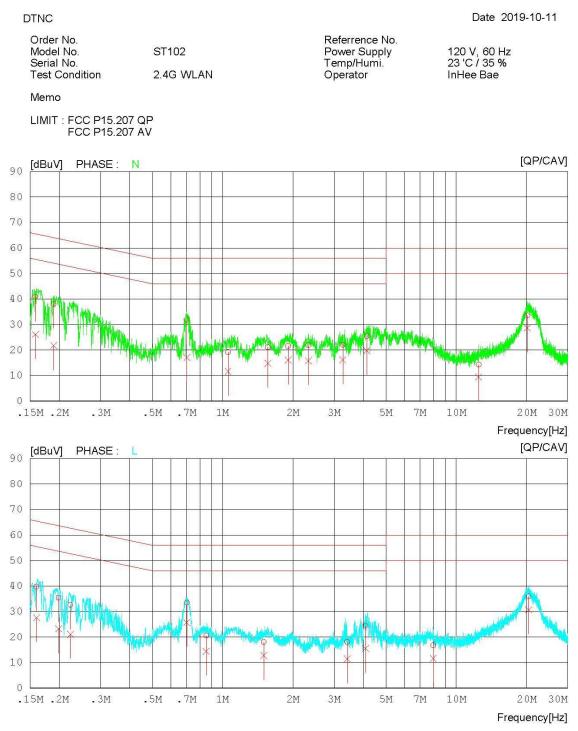
The worst data was reported.

RESULT PLOTS

AC Line Conducted Emissions (Graph)

Test Mode: TM 2 & 2462 MHz

Results of Conducted Emission



AC Line Conducted Emissions (List)

Test Mode: TM 2 & 2462 MHz

Results of Conducted Emission

Date 2019-10-11

Order No.		Referrence No.	
Model No.	ST102	Power Supply	120 V, 60 Hz
Serial No.		Temp/Humi.	23 'C / 35 %
Test Condition	2.4G WLAN	Operator	InHee Bae
Momo			

Memo

DTNC

LIMIT : FCC P15.207 QP FCC P15.207 AV

NC	FREQ [MHz]	QP CAV		RESULT QP CAV [dBuV] [dBuV	QP	IMIT CAV V] [dBuV		PHASE V]
1	0 15802	30.9316.20	9.94	40.8726.14	65.57	55.57	24.7029.43	N
2		28.0611.85	9.94	38.00 21.79	64.07	54.07	26.07 32.28	N
3		21.93 7.14	9.97	31.9017.11	56.00	46.00	24.1028.89	N
4		9.28 1.66		19.25 11.63		46.00	36.7534.37	N
5	1.56160		10.01	21.09 14.81	56.00	46.00	34.9131.19	N
6		11.62 6.08	10.03	21.65 16.11	56.00	46.00	34.35.29.89	N
7	2.32920		10.05	21.97 15.83	56.00	46.00	34.03 30.17	N
8	3.26680		10.09	22.0616.20	56.00	46.00	33.94 29.80	N
9	4.13980	15.47 9.67	10.12	25.5919.79	56.00	46.00	30.4126.21	N
10	12.46860	3.87-0.94	10.41	14.28 9.47	60.00	50.00	45.7240.53	N
11	20.14520	23.0218.09	10.55	33.5728.64	60.00	50.00	26.4321.36	N
12	0.15972	29.7917.63	9.94	39.7327.57	65.48	55.48	25.7527.91	L
13	0.19851	25.49 13.22	9.94	35.4323.16	63.67	53.67	28.24 30.51	L
14	0.22338	22.61 11.14	9.94	32.55 21.08	62.69	52.69	30.14 31.61	L
15	0.70303	23.50 15.69	9.96	33.4625.65	56.00	46.00	22.54 20.35	L
16	0.85050	10.53 4.40	9.97	20.5014.37	56.00	46.00	35.50 31.63	L
17	1.50140	7.99 2.72	10.01	18.00 12.73	56.00	46.00	38.00 33.27	L
18	3.41760	7.95 1.40	10.08	18.0311.48	56.00	46.00	37.9734.52	L
19	4.08700	14.41 5.31	10.11	24.5215.42	56.00	46.00	31.4830.58	L
20		6.52 1.29	10.26	16.7811.55	60.00	50.00	43.2238.45	L
21	20.41120	25.29 20.12	10.54	35.83 30.66	60.00	50.00	24.17 19.34	L

Test Requirements, RSS-Gen [6.7]

When an occupied bandwidth value is not specified in the applicable RSS, the transmitted signal bandwidth to be reported is to be its 99 % emission bandwidth, as calculated or measured.

TEST CONFIGURATION

Refer to the APPENDIX I.

TEST PROCEDURE

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately 3x RBW.

TEST RESULTS: Comply

Test Mode	Frequency	Test Results[MHz]				
	Lowest	11.25				
TM 1	Middle	11.23				
	Highest	11.38				
	Lowest	17.24				
TM 2	Middle	17.21				
	Highest	17.07				
	Lowest	18.17				
ТМ 3	Middle	18.16				
	Highest	18.05				
	Lowest	36.33				
TM 4	Middle	36.34				
	Highest	36.47				

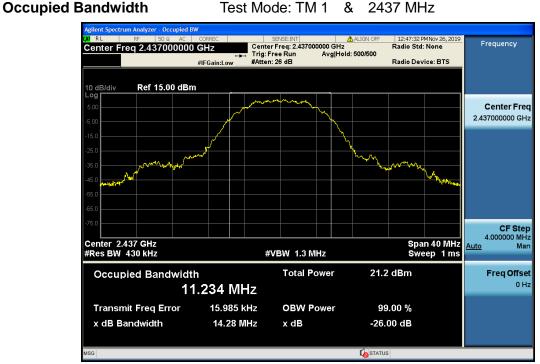
Test Mode: TM 1 & 2412 MHz

RESULT PLOTS

Occup CHZ Center Freq: 2.41200000 GHz Trig: Freq Run Avg|Hold: 500/500 #IFGain:Low #Atten: 30 dB 12:27:38 PM Nov 26, 201 Radio Std: None Frequency Center Freq 2.412000000 GHz Radio Device: BTS Ref 15.00 dBm **Center Freq** 2.412000000 GHz الرز. CF Step 4.000000 MHz Man Span 40 MHz Sweep 1 ms Center 2.412 GHz #Res BW 430 kHz <u>Auto</u> #VBW 1.3 MHz Occupied Bandwidth Total Power 20.6 dBm Freq Offset 0 Hz 11.250 MHz 21.916 kHz Transmit Freq Error **OBW Power** 99.00 % 14.28 MHz x dB Bandwidth x dB -26.00 dB

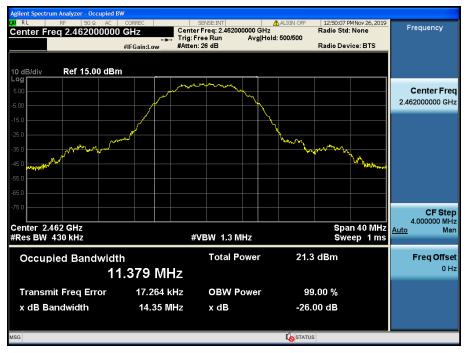
Occupied Bandwidth

Test Mode: TM 1 & 2437 MHz



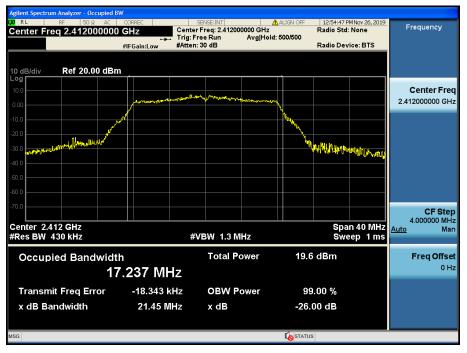


Test Mode: TM 1 & 2462 MHz





Test Mode: TM 2 & 2412 MHz



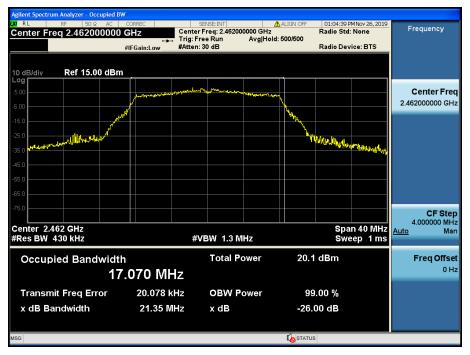
Occupied Bandwidth

Test Mode: TM 2 & 2437 MHz



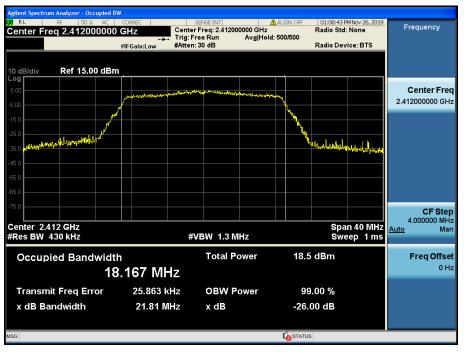


Test Mode: TM 2 & & 2462 MHz



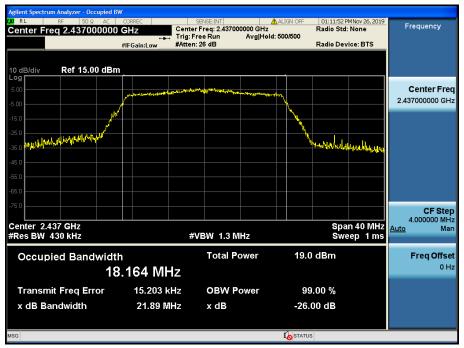


Test Mode: TM 3 & 2412 MHz



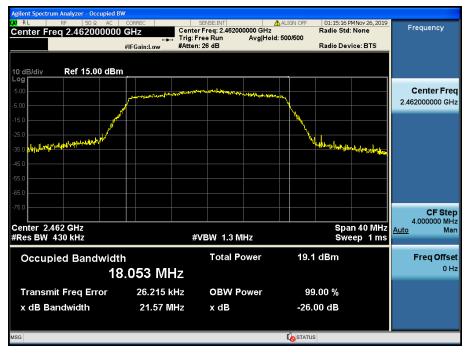
Occupied Bandwidth

Test Mode: TM 3 & 2437 MHz

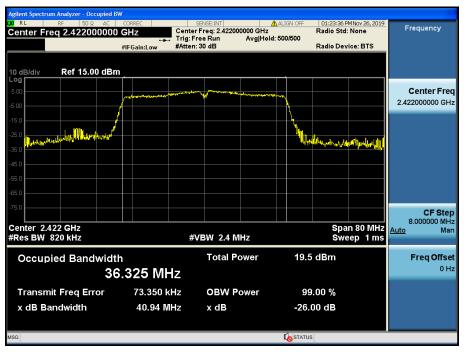




Test Mode: TM 3 & 2462 MHz

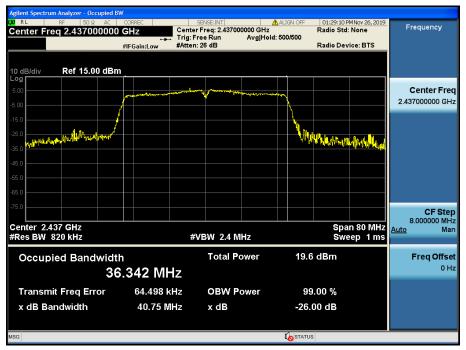


Test Mode: TM 4 & 2422 MHz



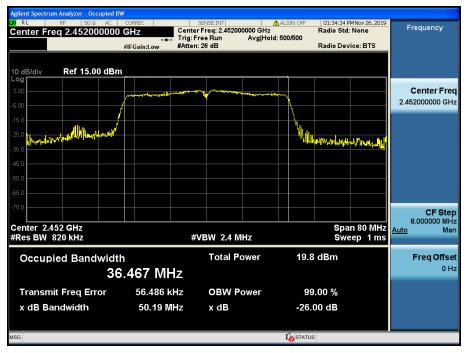
Occupied Bandwidth

Test Mode: TM 4 & 2437 MHz





Test Mode: TM 4 & 2452 MHz



9. LIST OF TEST EQUIPMENT

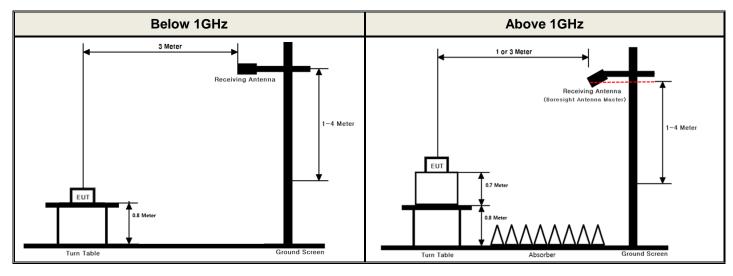
Туре	Manufacturer	Model	Cal.Date (yy/mm/dd)	Next.Cal.Date (yy/mm/dd)	S/N
Spectrum Analyzer	Agilent Technologies	N9020A	18/12/19	19/12/19	MY50410357
Spectrum Analyzer	Agilent Technologies	N9020A	18/12/19	19/12/19	MY48011700
DC Power Supply	Agilent Technologies	66332A	19/06/25	20/06/25	MY43000211
Multimeter	FLUKE	17B	18/12/18	19/12/18	26030065WS
Signal Generator	Rohde Schwarz	SMBV100A	18/12/19	19/12/19	255571
Signal Generator	ANRITSU	MG3695C	18/12/20	19/12/20	173501
Thermohygrometer	BODYCOM	BJ5478	18/12/27	19/12/27	120612-1
Thermohygrometer	BODYCOM	BJ5478	18/12/27	19/12/27	120612-2
Thermohygrometer	BODYCOM	BJ5478	19/07/03	20/07/03	N/A
HYGROMETER	TESTO	608-H1	19/01/31	20/01/31	34862883
Loop Antenna	ETS-Lindgren	6502	19/09/18	21/09/18	00226186
BILOG ANTENNA	Schwarzbeck	VULB 9160	19/04/23	21/04/23	9160-3362
Horn Antenna	ETS-Lindgren	3115	18/01/30	20/01/30	6419
Horn Antenna	Schwarzbeck	BBHA 9120C	17/12/04	19/12/04	9120C-561
Horn Antenna	A.H.Systems Inc.	SAS-574	19/07/03	21/07/03	155
PreAmplifier	tsj	MLA-0118-J01-45	18/12/19	19/12/19	17138
PreAmplifier	tsj	MLA-1840-J02-45	19/06/27	20/06/27	16966-10728
PreAmplifier	H.P	8447D	18/12/18	19/12/18	2944A07774
Attenuator	Aeroflex/Weinschel	20515	19/0627	20/06/27	Y2370
Attenuator	SMAJK	SMAJK-2-3	19/06/27	20/06/27	2
Attenuator	SRTechnology	F01-B0606-01	19/0627	20/06/27	13092403
Attenuator	Hefei Shunze	SS5T2.92-10-40	19/06/27	20/06/27	16012202
Attenuator	SMAJK	SMAJK-50-10	19/06/25	20/06/25	15081903
High Pass Filter	Wainwright Instruments	WHNX8.0/26.5-6SS	19/06/27	20/06/27	3
High Pass Filter	Wainwright Instruments	WHKX12-935-1000- 15000-40SS	19/06/26	20/06/26	8
High Pass Filter	Wainwright Instruments	WHKX10-2838-3300- 18000-60SS	19/06/26	20/06/26	1
Power Meter & Wide Bandwidth Sensor	Anritsu	ML2495A MA2490A	19/06/24	20/06/24	1306007 1249001
EMI Test Receiver	Rohde Schwarz	ESCI7	19/01/30	20/01/30	100910
PULSE LIMITER	Rohde Schwarz	ESH3-Z2	19/09/17	20/09/17	101333
LISN	SCHWARZBECK	NNLK 8121	19/03/19	20/03/19	06183
Cable	Radiall	TESTPRO3	19/01/16	20/01/16	M-01
Cable	Junkosha	MWX315	19/01/16	20/01/16	M-05
Cable	Junkosha	MWX315	19/01/16	20/01/16	M-06
Cable	Junkosha	MWX241	19/01/14	20/01/14	G-4
Cable	Junkosha	MWX241	19/01/14	20/01/14	G-7
Cable	DT&C	Cable	19/01/14	20/01/14	G-13
Cable	DT&C	Cable	19/01/14	20/01/14	G-14
Cable	HUBER+SUHNER	SUCOFLEX 104	19/01/14	20/01/14	G-15
Cable	DT&C	Cable	19/01/15	20/01/15	RF-18
Cable	DT&C	Cable	19/01/16	20/01/16	RF-82
Test Software	tsj	Radiated EmissionMeasurement	NA	NA	Version 2.00.0177
Test Software	tsj	Noise Terminal VoltageMeasurement	NA	NA	Version 2.00.0170

Note 1: The measurement antennas were calibrated in accordance to the requirements of ANSI C63.5-2017 Note 2: The cable is not a regular calibration item, so it has been calibrated by DT & C itself.

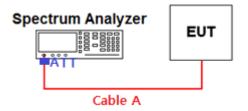
APPENDIX I

Test set up diagrams

Radiated Measurement



Conducted Measurement



Path loss information

Frequency (GHz)	Path Loss (dB)	Frequency (GHz)	Path Loss (dB)
0.03	9.62	15	15.67
1	10.36	20	16.54
2.412 & 2.437 & 2.462	11.23	25	17.10
5	11.90	-	-
10	12.62	-	-

Note 1: The path loss from EUT to Spectrum analyzer was measured and used for test. Path loss (S/A's correction factor) = Cable A

Middle

&

APPENDIX II

Duty cycle plots

Test Procedure

Duty Cycle was measured using section 6.0 b) of KDB558074 D01V05R02 :

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW \geq OBW if possible; otherwise, set RBW to the largest available value. Set VBW \geq RBW. Set detector = peak or average.

The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T \leq 16.7 microseconds.)

Duty Cycle

TM 1 Avg Type: Log-Pwr Sweep/Control Time 10.00 m Trig: Free Run Atten: 40 dB PNO: Fast Sweep Time 10.00 ms AMkr3 Ref 30.00 dBm X Center 2.437000000 GHz Res BW 8 MHz Span 0 Hz Sweep 10.00 ms (10001 pts #VBW 50 MHz 12.6 Gate (Δ) (Δ) 4 dE <u>4.04</u> 12 61 d [Off,LO] Points 10001 **STATUS**

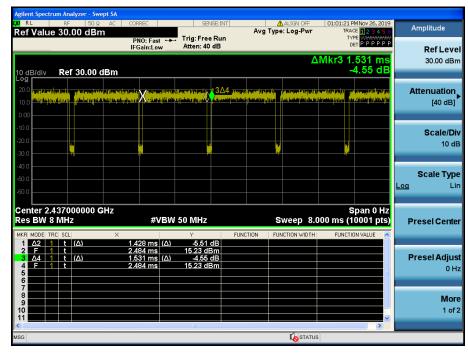
TRF-RF-236(04)171516 Pro

TDt&C

TM 2 & M

Middle

Duty Cycle



Duty Cycle

01:12:29 PM Nov 26, 201 TRACE SENSE:INT ALIGN OFF Sweep/Control Sweep Time 7.333 ms PNO: Fast +++ Trig: Free Run IFGain:Low Atten: 40 dB TYPE WWWWWWW Sweep Time 7.333 ms ΔMkr3 1.440 ms -0.18 dE Ref 30.00 dBm A13∆4 alb. ٣ (a) Center 2.437000000 GHz Res BW 8 MHz Span 0 Hz Sweep 7.333 ms (10001 pts) #VBW 50 MHz FUNCTION WIDTH -0.63 dB 14.01 dBm -0.18 dB 14.01 dBm t (Δ) s (Δ) t (Δ) (Δ) Gate 3 132 [Off,LO] Points 10001 **STATUS**

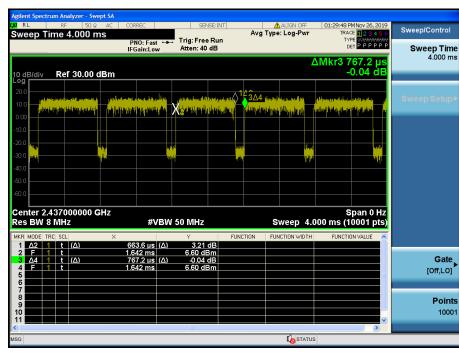
& Middle

TM 3



TM 4

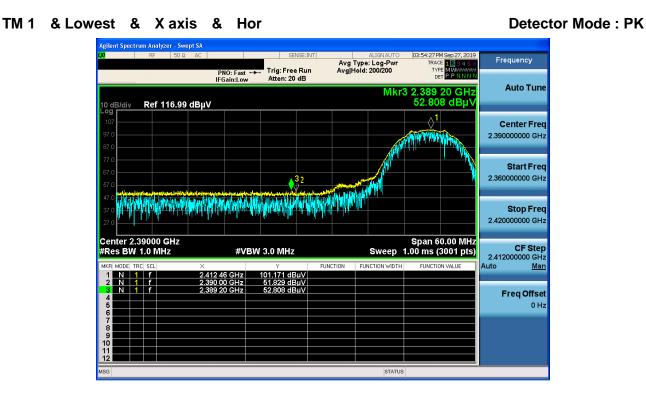
& Middle



Duty Cycle

APPENDIX III

Unwanted Emissions (Radiated) Test Plot

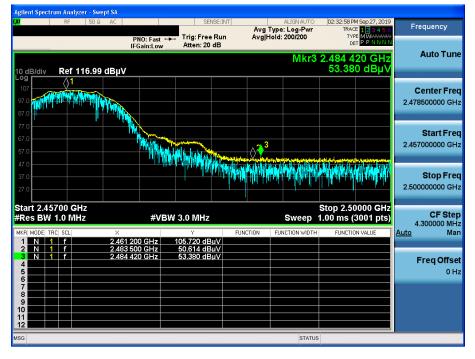


TM 1 & Lowest & X axis & Hor





TM 1 & Highest & X axis & Hor



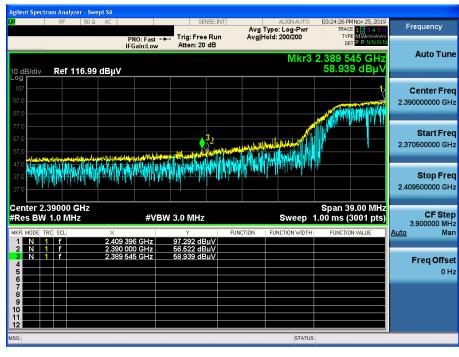
TM 1 & Highest & X axis & Hor

Analyzer - Swent S/ Frequency Avg Type: RMS Avg|Hold: 200/200 Trig: Free Run Atten: 20 dB A P N N PNO: Fast 🔸 Mkr3 2.484 305 GHz 43.270 dBµ\ Auto Tune Ref 116.99 dBµV 10 dB/div (1)Center Freq 2.478500000 GHz Start Freq 2.457000000 GHz _____3 Stop Freq 2.50000000 GHz Start 2.45700 GHz #Res BW 1.0 MHz Stop 2.50000 GHz 1.00 ms (3001 pts) CF Step 4.300000 MHz Man #VBW 3.0 MHz* Sweep Auto 100.517 dBµ\ 42.543 dBµ\ 43.270 dBµ\ 2.483 500 GHz 2.484 305 GHz Freq Offset 0 Hz



TM 2 & Lowest & Yaxis & Ver





TM 2 & Lowest & Yaxis & Ver

n Analyzer - Swent SA Frequency Avg Type: RMS Avg|Hold: 200/200 Trig: Free Run Atten: 20 dB A P N N PNO: Fast +++ IFGain:Low Mkr3 2.389 506 GHz 45.910 dBµ\ Auto Tune Ref 116.99 dBµV 10 dB/div Log Center Freq 2 390000000 GHz Start Freq 2.370500000 GHz 32 Stop Freq 2.409500000 GHz Center 2.39000 GHz #Res BW 1.0 MHz Span 39.00 MHz Sweep 1.00 ms (3001 pts) CF Step 3.900000 MHz Man #VBW 3.0 MHz* Auto 88.607 dBµ\ 45.980 dBµ\ 45.910 dBµ\ 000 GHz 506 GHz Freq Offset 0 Hz



TM 2 & Highest & Yaxis & Ver

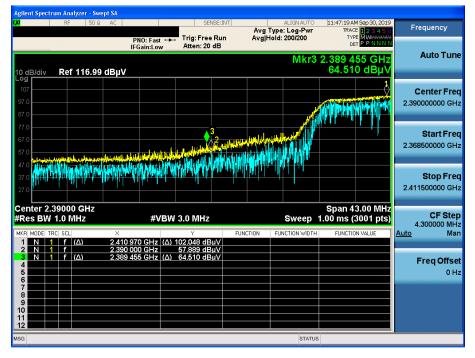


TM 2 & Highest & Yaxis & Ver





TM 3 & Lowest & Yaxis & Ver



TM 3 & Lowest & Yaxis & Ver





TM 3 & Highest & Yaxis & Ver

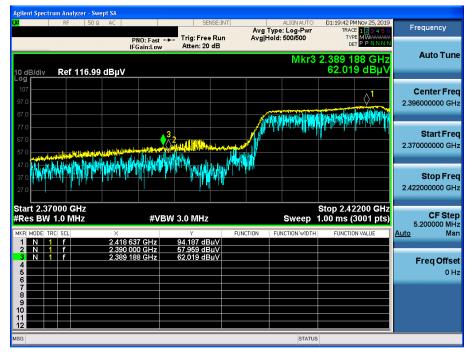


TM 3 & Highest & Yaxis & Ver





TM 4 & Lowest & Yaxis & Ver



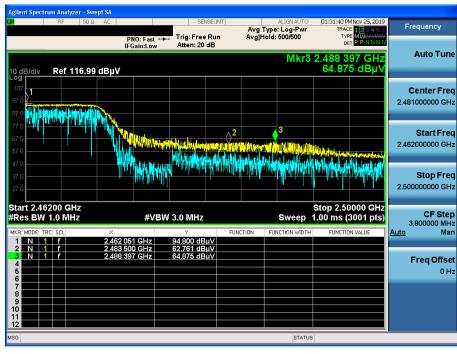
TM 4 & Lowest & Yaxis & Ver

ent Spectrum Analyzer - Swept SA Frequency Avg Type: RMS Avg|Hold: 500/500 Trig: Free Run Atten: 20 dB DET A P N PNO: Fast IFGain:Low Auto Tune Mkr3 2.389 240 GHz 48.860 dBµ\ Ref 116.99 dBµV 10 dB/div Center Freq 2.396000000 GHz \Diamond^1 Start Freq 32 2.370000000 GHz Stop Freq 2.422000000 GHz Start 2.37000 GHz #Res BW 1.0 MHz Stop 2.42200 GHz 1.00 ms (3001 pts) CF Step 5.200000 MHz #VBW 3.0 MHz* Sweep Man Auto 84.763 dBµ\ 49.213 dBµ\ 48.860 dBµ\ 000 GHz 240 GHz Freq Offset 0 Hz STATUS



TM 4 & Highest & Yaxis & Ver





TM 4 & Highest & Yaxis & Ver

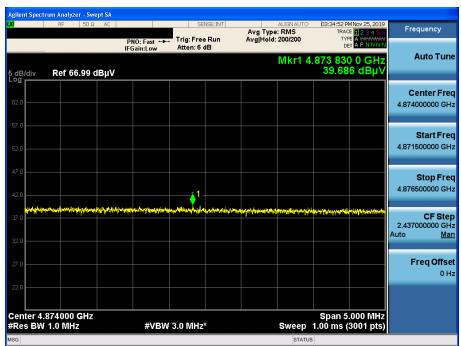
ent Spectrum Analyzer - Swept SA Frequency Avg Type: RMS Avg|Hold: 500/500 Trig: Free Run Atten: 20 dB DET A P N PNO: Fast IFGain:Low Auto Tune Mkr3 2.488 524 GHz 48.091 dBµ\ Ref 116.99 dBµV 10 dB/div Center Freq 2.481000000 GHz Start Freq 2.462000000 GHz 3 {)² Stop Freq 2.50000000 GHz Start 2.46200 GHz #Res BW 1.0 MHz Stop 2.50000 GHz 1.00 ms (3001 pts) CF Step 3.800000 MHz #VBW 3.0 MHz* Sweep Man Auto 48.839 dBµ∖ 48.091 dBµ∖ 2.483 500 GHz 2.488 524 GHz Freq Offset 0 Hz STATUS

TM 1 & Highest & X axis & Hor





TM 2 & Middle & X axis & Hor



TM 3 & Middle & X axis & Hor





TM 4 & Middle & X axis & Hor

