





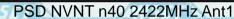


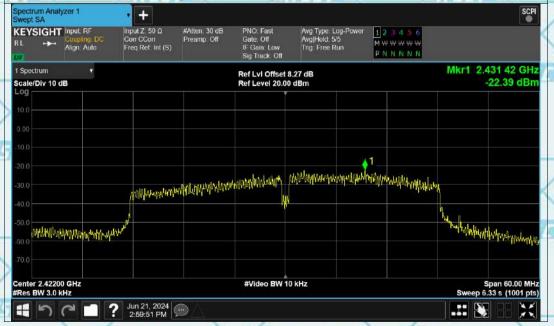
Report No.: WSCT-A2LA-R&E240300009A-Wi-Fi1

Certificate #5768.01









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ANT2 **Test Graphs**













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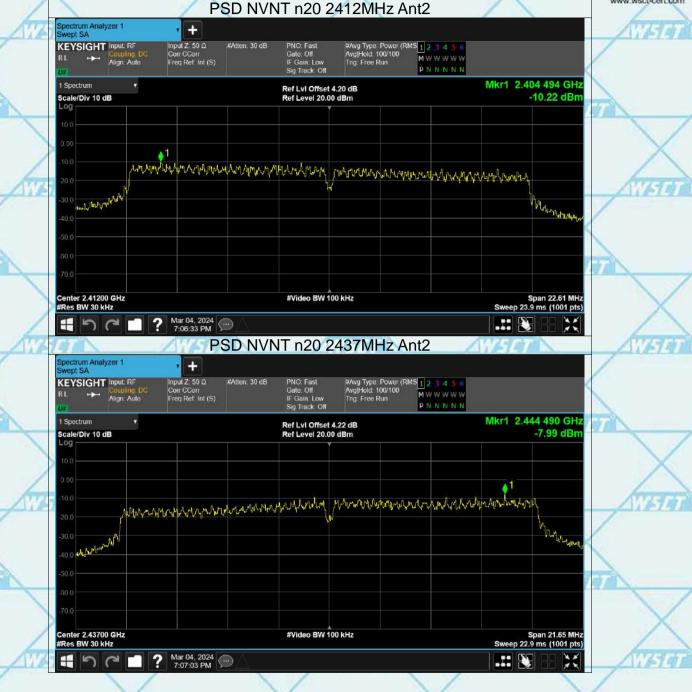




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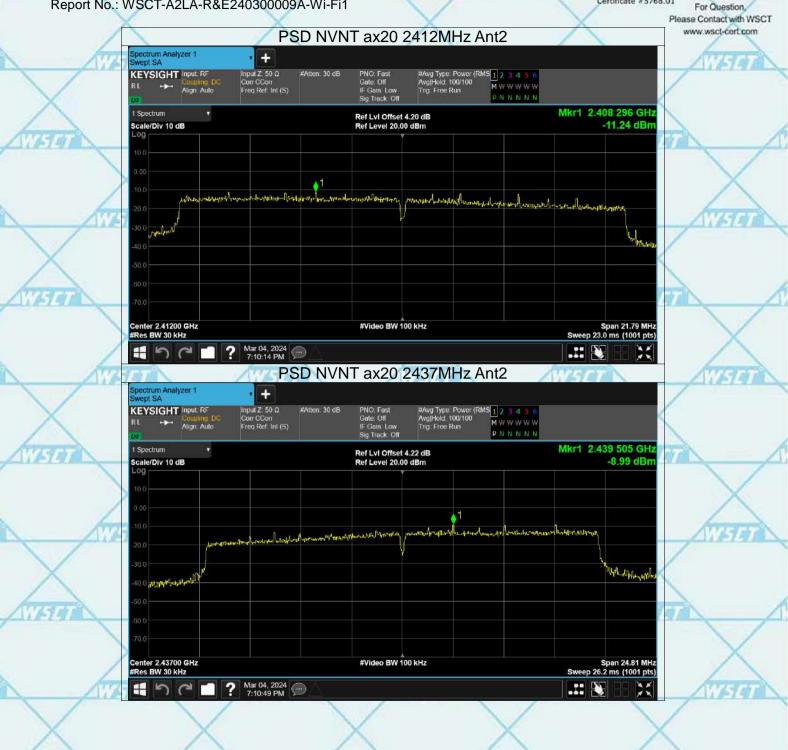






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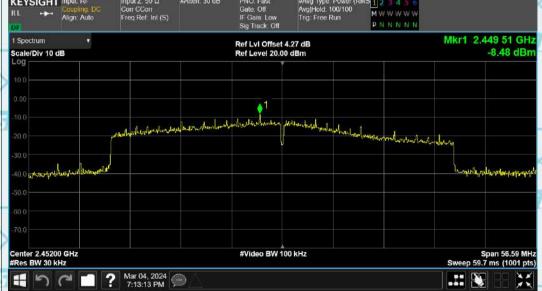




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Conducted Band Edge and Spurious Emission Measurement 6.5.

6.5.1. Test Specification

.s.r. rest specification	
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted
WETER	power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). 5. Measure and record the results in the test report. 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS
ATT 1 30 ATT	











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Test Data Band Edge Certificate #5768.01 For Question, Please Contact with WSCT www.wsct-cert.com













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Certificate #5768.01 For Question,







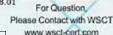






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Conducted RF Spurious Emission

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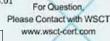


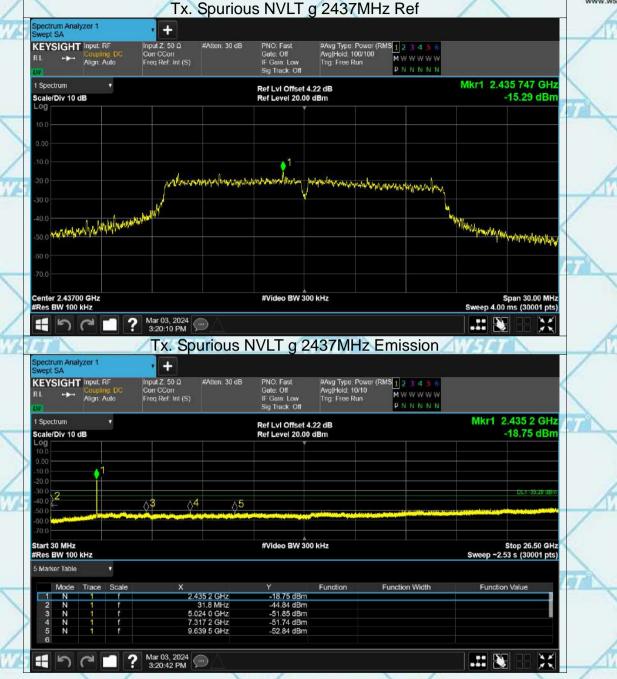




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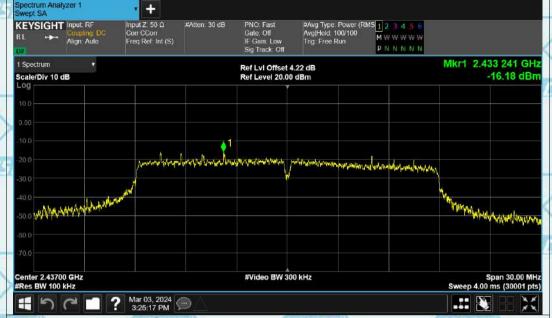


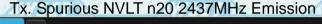


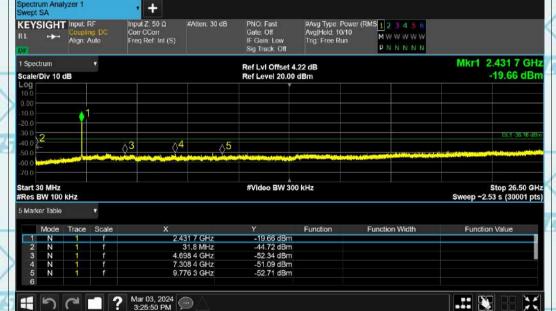
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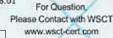






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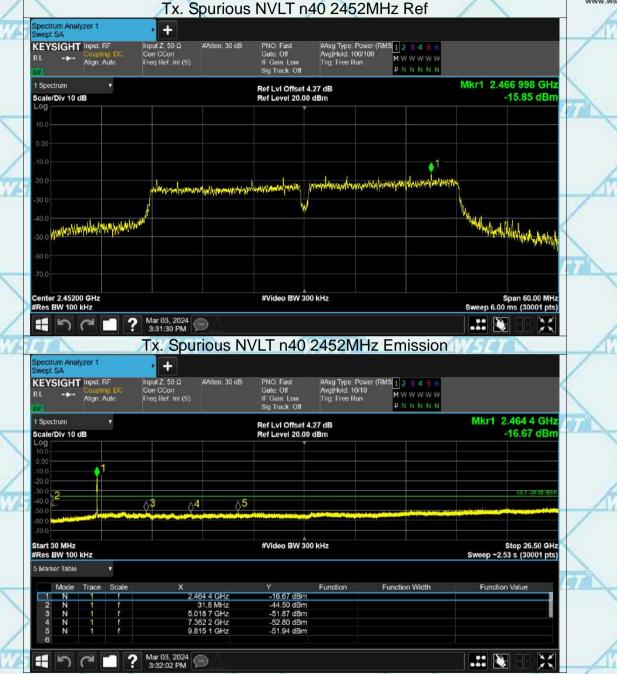




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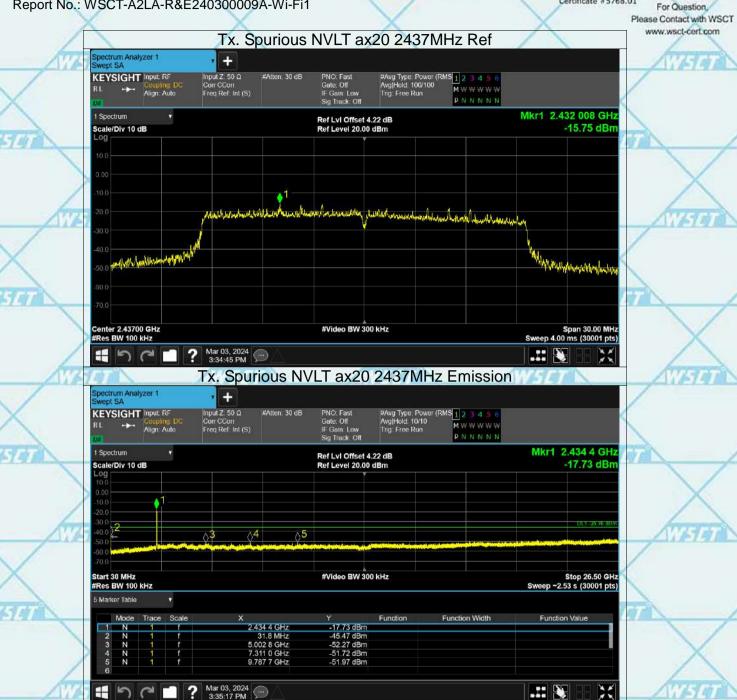






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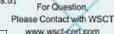






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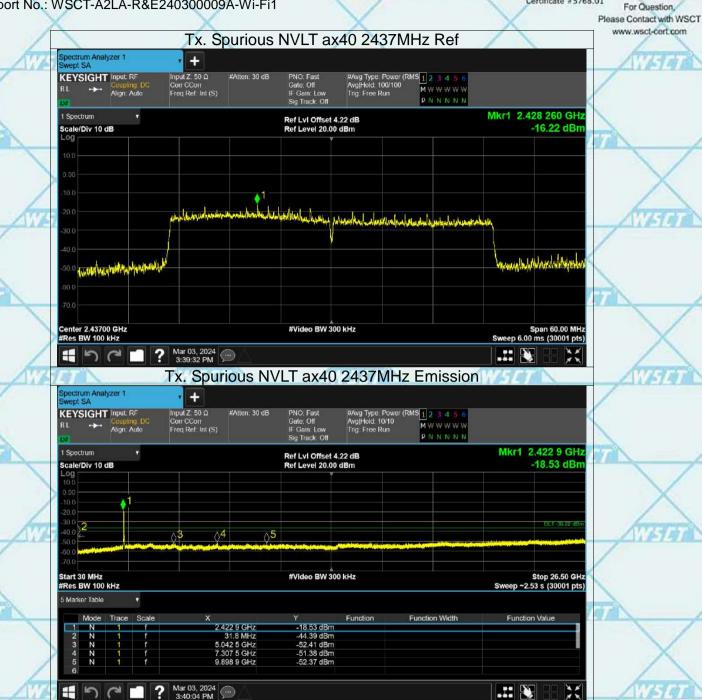






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6.6. Radiated Spurious Emission Measurement

6.6.1. Test Specification

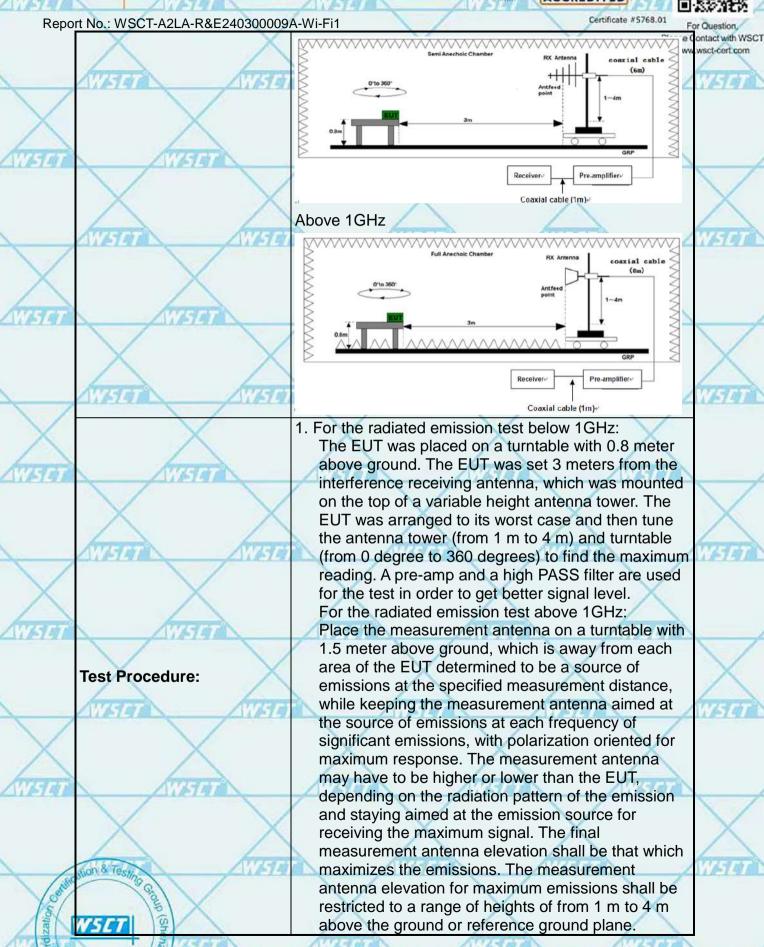
0.	.6.1. Test Specification	\/		\/		1	
	Test Requirement:	FCC Part15	C Section	15.209		1	
Ì	Test Method:	ANSI C63.10	0: 2014	ATTATA		17	507
	Frequency Range:	9 kHz to 25 GHz					
	Measurement Distance:	3 m	6				
,	Antenna Polarization:	Horizontal & Vertical					
	Operation mode:	Transmitting	mode wit	th modulat	ion		/
		Frequency	Detector	RBW	VBW	Rem	ark
	11/5/97	9kHz- 150kHz	Quasi-pea	k 200Hz	1kHz	Quasi-pea	ak Value
	Receiver Setup:	150kHz- 30MHz	Quasi-pea	k 9kHz	30kHz	Quasi-pea	ak Value
	X	30MHz-1GHz	Quasi-pea		300KHz	Quasi-pea	
	harry harry	Above 1GHz	Peak	1MHz	3MHz	Peak \	
,	AV-19		Peak	1MHz	10Hz	Average	Value /
		Frequency		Field Strength (microvolts/meter)		Measurement Distance (meters)	
S		0.009-0.490		2400/F(KHz)		300	
	NV5141	0.490-1.705		24000/F(KHz)		30	
		1.705-30		30		30	
	X	30-88		100 150		3	
	Limit:	88-216 216-960		200		3	
	NETHER NETHE	Above 960		500		3	
7		Above 9	00	300	agrand A. B	-	
		II Freduency		$\overline{}$	Measure	ment	
				ld Strength	Distan	7.00	etector
Ì	August 1	Troquelley	(microvolts/me		(meter	100	7.7.7.
	AVSTAT	AL ACU	500		3 Avera		verage
		Above 1GHz	Above 1GHz 5000		3 Peak		_
		For radiated	emission	s below 30	MHz		
,	AVE 14	A American				/	
		Distance = 3m				Computer	
	X	<u> </u>	→	_			
V		Pre -Amplifier				mplifier	
	Test setup:	EUT					
		A L L	J				
	X	0.8m Turn table					
			1		Re	ceiver	
,	stion & Testino G		Ground	d Plane			
N.	Sund G	30MHz to 10	SHz		7	-	
1	181						

WSET

















	16798	Z 1 67 9 Z 1 67 9 1	1361	SPACE 🚄
Repor	rt No.: WSCT-A2LA-R&E240300009/			or Question,
	X	Corrected Reading: Antenna Read Level - Preamp Factor		ontact with WSCT wsct-cert.com
	17619	4. For measurement below 1GH	regional A. A. A. M. A. Williams Co.	17-14
\/		of the EUT measured by the		
X	X	lower than the applicable lim level will be reported. Otherw		
17-74	WSFIT	measurement will be repeate		/
		detector and reported.	ach zar acttinger	
	X	Use the following spectrum as (1) Span shall wide enough to		X
	mesa mesa	emission being measured		77773
	STEIR STEIR	(2) Set RBW=100 kHz for f <	1 GHz; VBW ≥RBW;	I PITTE
X	X	Sweep = auto; Detector fu max hold;	unction = peak; Trace =	
WSTIT	AVISTA DE	(3) Set RBW = 1 MHz, VBW=	= 3MHz for f 1 GHz	/
		for peak measurement.	/DW/ 40 Hzb a.a	
	X	For average measurement: \	X	X
		duty cycle is no less than 98		
	AWSTER AWSTER	when duty cycle is less than	and the second s	WELT
/		the minimum transmission de		
X	X	transmitter is on and is trans	_	
		power control level for the te	sted mode of operation.	

Note 1: The symbol of "--" in the table which means not application.

PASS

Note 2: For the test data above 1 GHz, According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 3: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note 4: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.



Test results:

116141

75197 W5197









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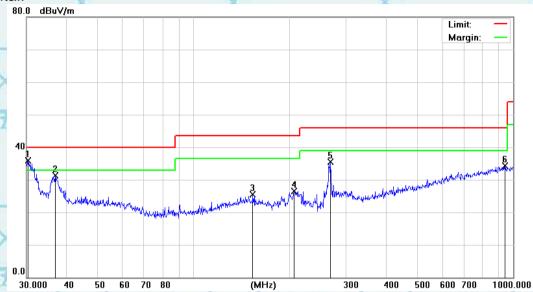
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6.6.2. Test Data(worst)

Please refer to following diagram for individual Below 1GHz





	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	THE
ì			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
S	1	*	30.3173	39.04	-3.20	35.84	40.00	-4.16	QP
	2	1	36.8953	33.77	-2.42	31.35	40.00	-8.65	QP
1	3		153.2004	27.45	-1.86	25.59	43.50	-17.91	QP -
ĺ	4		206.3976	32.57	-6.04	26.53	43.50	-16.97	QP
	5	Z	267.5455	39.08	-3.65	35.43	46.00	-10.57	QP
i	6		942.1304	26.82	7.40	34.22	46.00	-11.78	QP

Warld Start and Start and

WETER WETER



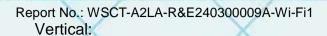


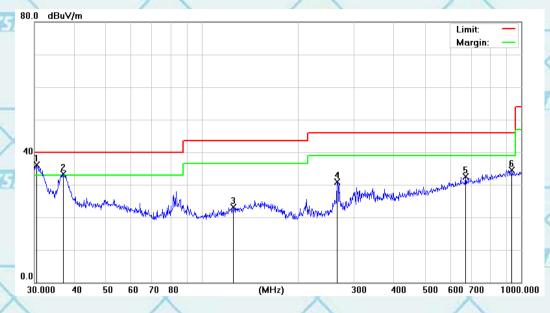




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No	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	746
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*	30.4238	39.29	-3.20	36.09	40.00	-3.91	QP
2		36.8953	35.66	-2.42	33.24	40.00	-6.76	QP
3		125.4457	26.48	-3.36	23.12	43.50	-20.38	QP
4		265.6757	34.63	-3.76	30.87	46.00	-15.13	QP
5		670.4893	27.83	4.70	32.53	46.00	-13.47	QP
6		935.5463	27.26	7.31	34.57	46.00	-11.43	QP

Note1:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor.

Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)

Limit (dBµV) = Limit stated in standard

Margin (dB) = Measurement (dB μ V) – Limits (dB μ V)



N/5741

AVESTEE

ATH14









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Above 1GHz

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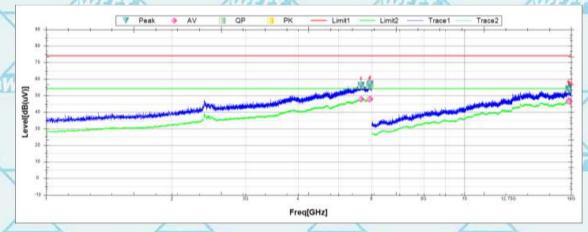
Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note 2: The spurious above 18G is noise only, do not show on the report.

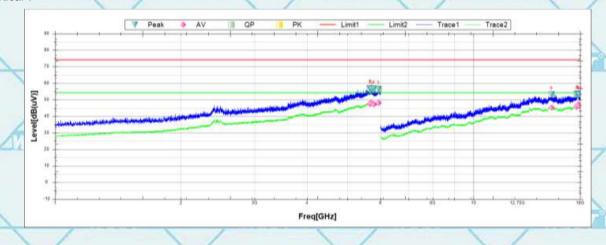
Note 3: Report and only recorded the worst-case scenario 802.11b.

1 GHz to 18 GHz, ANT H 802.11b Low Channel

Horizontal:



Vertical:



oup (Shenz)

DUOM * PT







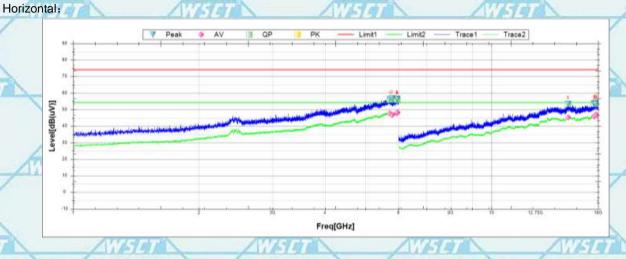


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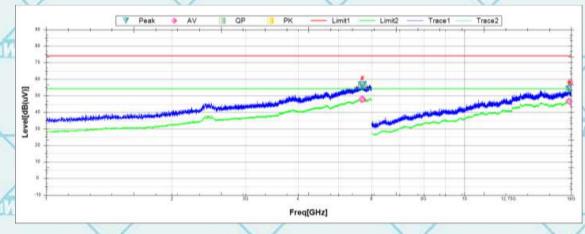
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1 GHz to 18 GHz, ANT H 802.11b Middle Channel

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DuoM * PIT

TOWP (Shenza



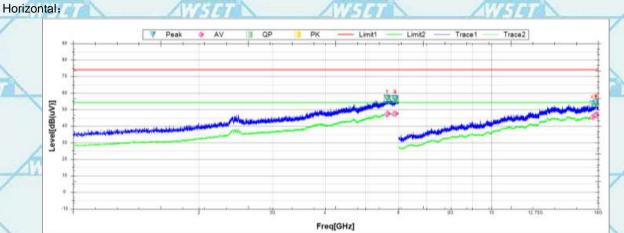




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1 GHz to 18 GHz, ANT H 802.11b High Channel

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Vertical:



Note:

- 1. All emissions not reported were more than 20dB below the specified limit or in the noise floor.
- 2. Emission Level= Reading Level+ Probe Factor +Cable Loss.
- 3. Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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Test Setup Photographs

\times	Please refer to Annex "Set Up Photos-15C" for test setup photos						
NV-14	WETER	****END OF RE	PORT****	WEIGH			
				X	X		
Wist	X	X	X	75790	AWSTOTAL.		
NI-191	WETGE	Wester	NV-107	WETTER	X		
AVE	X	X	X	75100	1V574711		
WET OF THE PERSON NAMED IN COLUMN TO	WETTE	WHITE	WSTAT	WEIGH	114144		
1765141	NYSIGI	V65100	W5191	1619			
7/49				X	175101		
WETH	N/ST di	WEIGH	NIST OF	WETGE			
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