

Test Report No:
2650088R-RFUSV03S-A

TEST REPORT

FCC Rules&Regulations

Product Name	Dual-WAN Security Router
Brand Name	DrayTek
Model No.	Vigor2928be, Vigor2867be, Vigor1220be
FCC ID	VGY2928BE
Applicant's Name / Address	Draytek Corporation No. 26, Fu Shing Road, Hukou County, Hsin-Chu Industrial Park, Hsinchu, Taiwan
Manufacturer's Name / Address	Draytek Corporation No. 26, Fu Shing Road, Hukou County, Hsin-Chu Industrial Park, Hsinchu, Taiwan
Test Method Requested, Standard	FCC CFR Title 47 Part 15 Subpart E Section 15.407 ANSI C63.10-2020
Verdict Summary	IN COMPLIANCE
Documented By	 Hailey Peng
Approved By	 Rueyyan Lin
Date of Receipt	May 07, 2026
Date of Issue	Sep. 18, 2026
Report Version	V1.0

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Competences and Guarantees

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

General Conditions

1. The test results relate only to the samples tested.
2. The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
3. This report must not be used to claim product endorsement by TAF or any agency of the government.
4. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
5. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	Sep. 18, 2026

Summary of Test Result

Report Clause	Test Items	Result (PASS/FAIL)	Remark
3	AC Power Line Conducted Emission	PASS	-
4	Emission Bandwidth	PASS	-
5	Maximum Conducted Output Power	PASS	-
6	Maximum Power Spectral Density	PASS	-
7	Transmitter Radiated Spurious Emission	PASS	-

Comments and Explanations

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Comments and Remarks

The product specification and testing instructions for the EUT declared in the report are provided by the manufacturer who will take all responsibilities for the accuracy.

1. General Information

1.1. EUT Description

Frequency Range	5150 ~ 5250 MHz 5250 ~ 5350 MHz 5470 ~ 5725 MHz 5725 ~ 5850 MHz	
Operating Frequency / Channel Number	IEEE 802.11a IEEE 802.11n/ac/ax/be (20 MHz)	5180 ~ 5240 MHz / 4 Channels 5260 ~ 5320 MHz / 4 Channels 5500 ~ 5720 MHz / 12 Channels 5745 ~ 5825 MHz / 5 Channels
	IEEE 802.11n/ac/ax/be (40 MHz)	5190 ~ 5230 MHz / 2 Channels 5270 ~ 5310 MHz / 2 Channels 5510 ~ 5710 MHz / 6 Channels 5755 ~ 5795 MHz / 2 Channels
	IEEE 802.11ac/ax/be (80 MHz)	5210 MHz / 1 Channel 5290 MHz / 1 Channel 5530 ~ 5690 MHz / 3 Channels 5775 MHz / 1 Channel
	IEEE 802.11ac/ax/be (160 MHz)	5250 MHz / 1 Channel 5570 MHz / 1 Channel 5815 MHz / 1 Channel
Type of Modulation	IEEE 802.11a/n	OFDM-BPSK, QPSK, 16QAM, 64QAM
	IEEE 802.11ac	OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM
	IEEE 802.11ax	OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
	IEEE 802.11be	OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM

Accessories Information				
No.	Equipment Name	Brand Name	Model No.	Rating
1	Adapter 1	CWT	600036F	INPUT: 100~240V, 50/60Hz, 1.3A. OUTPUT: 36.0W, 12.0V=3.0A
2	Adapter 2	MOSO	V30-V3000R120-036T0 US	INPUT: 100~240V, 50/60Hz, 1.0A max. OUTPUT: 36.0W, 12.0V=3.0A

The difference for each model is shown as below:

Model No.	WAN			Color of the Top Cover
	DSL	SFP+	XGS-PON	
Vigor 2867be	V(vdsl2/35b)	X	X	White
Vigor 2928be	X	V	X	Black
Vigor 1220be	X	X	V	White

"V" indicates available, and "X" indicates not available.

Antenna Information											
Ant.	Brand Name	Model No.	Type	Gain (dBi)				Directional Gain (dBi)			
				U-NII 1	U-NII 2A	U-NII 2C	U-NII 3	U-NII 1	U-NII 2A	U-NII 2C	U-NII 3
1	HL GLOBAL	PC2455WOC01DR-P3M 48-BZKLB145IC3	PCB	4.90	5.40	5.40	5.50	10.41	10.47	10.96	10.50
2	HL GLOBAL	PC2455WOC02DR-P3M 48-BZK-LB91IC1	PCB	4.30	4.00	4.80	5.00				
3	INPAQ	RFDPA191700SBLB804	Dipole	4.16	4.16	4.78	3.64				
4	INPAQ	RFDPA191700SBLB804	Dipole	4.16	4.16	4.78	3.64				
5	HL GLOBAL	PC55WOC02DR-P3M4 8-BZKLO73IC3	PCB	4.10	4.40	4.40	3.90	-- (RX only)			

Directional Gain = $10\log [(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{Ant}]$

For IEEE 802.11a/n/ac/ax/be Mode: (4TX, 5RX)

Ant. 1 to Ant. 4 can each operate as transmitting antennas, and all four antennas can transmit simultaneously.

Ant. 1 to Ant. 5 can each operate as receiving antennas, and all five antennas can receive simultaneously.

1.2. EUT Information

EUT Power Type	From Adapter			
EUT Function	☒	Point-to-multipoint	☐	Point-to-point
TPC Function	☒	With TPC Function	☐	Without TPC Function
Weather Band (5600 ~ 5650 MHz)	☒	With 5600 ~ 5650 MHz	☐	Without 5600 ~ 5650 MHz
Beamforming Function	☒	With beamforming	☐	Without beamforming
Resource Unit of 802.11ax/be	☒	Full RU	☐	Partial RU
	☐	Multi-RU	☐	Channel Puncturing

1.3. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2020
- ♦ KDB 789033 D02 v02r01

The following reference test guidance is not within the scope of accreditation of TAF.

- ♦ KDB 662911 D01 v02r01
- ♦ KDB 412172 D01 v01r01
- ♦ KDB 414788 D01 v01r01

1.4. Testing Location Information

Testing Location Information		
Test Laboratory : DEKRA Testing and Certification Co., Ltd.		
1 (TAF: 3024)	ADD: No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958 Test site Designation No. TW3024 with FCC. Conformity Assessment Body Identifier (CABID) TW3024 with ISED.	
2 (TAF: 3024)	ADD: No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958 Test site Designation No. TW3024 with FCC. Conformity Assessment Body Identifier (CABID) TW3024 with ISED.	
Test site number for address 1 includes HC-SR02 and HC-CB10. Test site number for address 2 includes HC-CB02, HC-CB04, HC-SR10 and HC-SR12.		

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
AC Conduction Emission	HC-SR02	Cyril Chen	20~25 / 60~65	2026/05/28
RF Conducted Emission	HC-SR12	Clemens Fang	22.4~24.2 / 52.4~54.2	2026/05/30~2026/06/04
Radiated Emission	HC-CB04	Brook Cheng, Cyril Chen	23~24 / 55~60	2026/05/25~2026/05/29

1.5. Measurement Uncertainty

Uncertainties have been calculated according to the DEKRA internal document with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Test Item	Uncertainty
AC Power Line Conducted Emission	± 2.39 dB
Emission Bandwidth	± 636.54 Hz
Maximum Conducted Output Power	± 1.11 dB
Maximum Power Spectral Density	± 1.74 dB
Transmitter Radiated Spurious Emission	± 3.72 dB below 1 GHz ± 3.18 dB above 1 GHz

1.6. List of Test Equipment

HC-SR02

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
EMI Test Receiver	R&S	ESC17	100879	9 kHz - 3.6 GHz	2025/08/20	2026/08/19
Artificial Mains Network	R&S	ENV 4200	848411/010	9kHz-30MHz, 4line/100A	2025/12/10	2026/12/09
Two-Line V-Network	R&S	ENV216	100096	9kHz-30MHz	2025/06/26	2026/06/25
Coaxial Cable(9 m)	Harbour	RG-400	HC-SR02	9 kHz–2500 MHz	2025/08/15	2026/08/14
EMI Testing System	Audix	e3 210616 dekra V9	HC-SR02	N/A	N/A	N/A

HC-SR12

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101869	10Hz-40GHz	2025/06/17	2026/06/16
USB Peak Power Sensor	Anritsu	MA24408A	11840	50 MHz to 8 GHz, High VBW(165 MHz / 350 kHz)	2025/07/18	2026/07/17

HC-CB04

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
Magnetic Loop Antenna	Teseq	HLA 6121	44287	9kHz-30 MHz	2025/10/20	2026/10/19
Signal and Spectrum Analyzer	R&S	FSVA40	101435	10 Hz-40 GHz	2026/05/11	2027/05/10
Trilog Broadband Antenna	Schwarzbeck	VULB 9168	1209	30 MHz-2 GHz	2025/06/17	2026/06/16
Double Ridged Horn Antenna	RF SPIN	DRH18-E	211212A18EN	1G-18GHz	2025/11/03	2026/11/02
Horn Antenna	Schwarzbeck	BBHA 9170	203	18G-40GHz	2025/12/04	2026/12/03
Pre-Amplifier	DEKRA	AP-400C	201801231	18G-40 GHz,48 dB	2025/10/16	2026/10/15
Coaxial Cable	Huber+Suhner	SF104	HC-CB04	30 MHz-18 GHz, 11m	2025/08/07	2026/08/06
Coaxial Cable	Huber+SGH	SF104	HC-CB04-1	1 GHz-18 GHz, 12m	2026/03/12	2027/03/11
Coaxial Cable	Huber+Suhner, Rosnol	SF102_UP0264	HC-CB04-1	18-40 GHz, 3m	2025/08/13	2026/08/12
Pre-Amplifier	EMEC	EM01G18GA	060835	1-18 GHz,50 dB	2025/07/09	2026/07/08
Pre-Amplifier	EMCI	EMC003240	980324	0.3-2500 MHz, 40 dB	2024/10/28	2026/10/27
Preamplifier	SGH	PRAMP0510	20200703	1G-8GHz	2026/01/10	2027/01/09
Radiated Software	AUDIX	e3 V9	HC-CB04_1	N/A	N/A	N/A

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2. Test Configuration of EUT

2.1. Test Condition

EUT Operational Condition	
Testing Voltage	AC 120V/60Hz

2.2. Test Frequency Mode

Test Software Version	MT7992 QA 0.0.2.106
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Modulation	Frequency (MHz)	Power Setting
802.11a	5180	14.0
	5220	14.0
	5240	14.5
	5260	8.5
	5300	8.5
	5320	8.5
	5500	8.5
	5580	8.5
	5700	9.0
	5720	9.0
	5745	20.5
	5785	20.5
	5825	20.0
802.11be (20 MHz)	5180	15.0
	5220	15.0
	5240	15.0
	5260	9.0
	5300	9.0
	5320	9.0
	5500	9.0
	5580	9.0
	5700	9.0
	5720	9.0
	5745	20.5
	5785	20.5
	5825	20.5

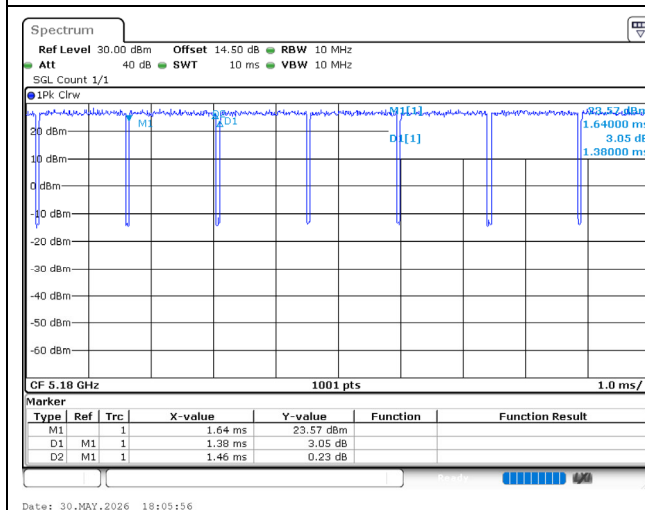
Modulation	Frequency (MHz)	Power Setting
802.11be (40 MHz)	5190	15.0
	5230	17.0
	5270	11.0
	5310	11.0
	5510	11.5
	5550	11.5
	5670	11.5
	5710	11.5
	5755	20.5
	5795	20.5
802.11be (80 MHz)	5210	13.5
	5290	14.5
	5530	14.5
	5610	14.5
	5690	14.5
	5755	21.0
802.11be (160 MHz)	5250	14.5
	5570	15.5

2.3. Duty Cycle

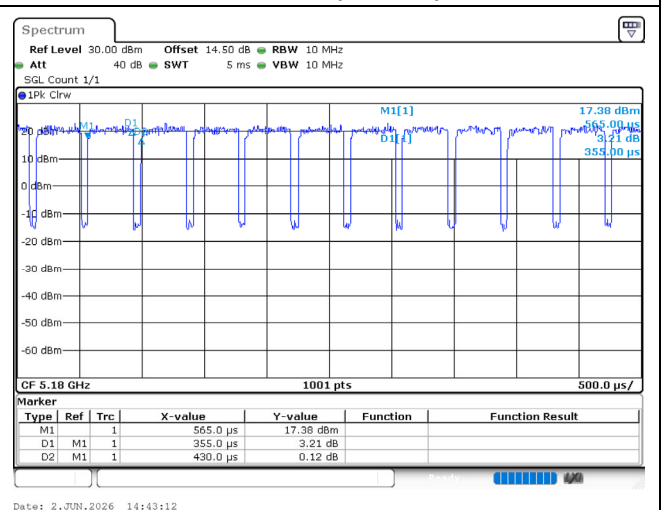
Modulation	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11a	1.380	1.460	94.52	0.24	0.725
802.11be (20 MHz)	0.355	0.430	82.56	0.83	2.817
802.11be (40 MHz)	0.360	0.426	84.51	0.73	2.778
802.11be (80 MHz)	0.344	0.400	86.00	0.66	2.907
802.11be (160 MHz)	0.348	0.414	84.06	0.75	2.874

Note: The duty factor will compensate for the total power and power spectral density.

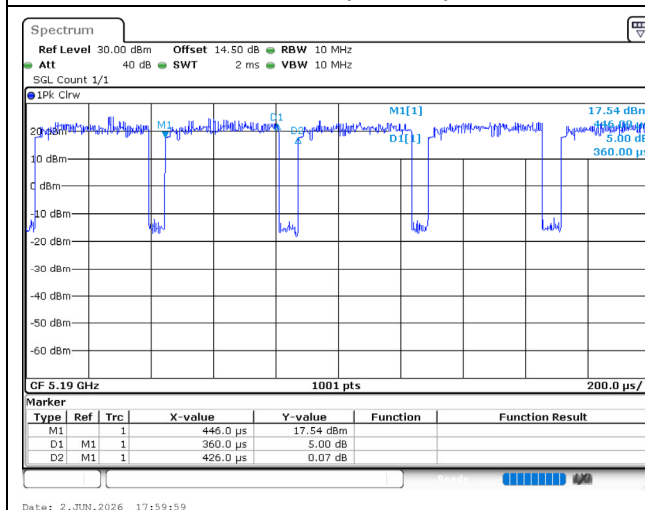
802.11a



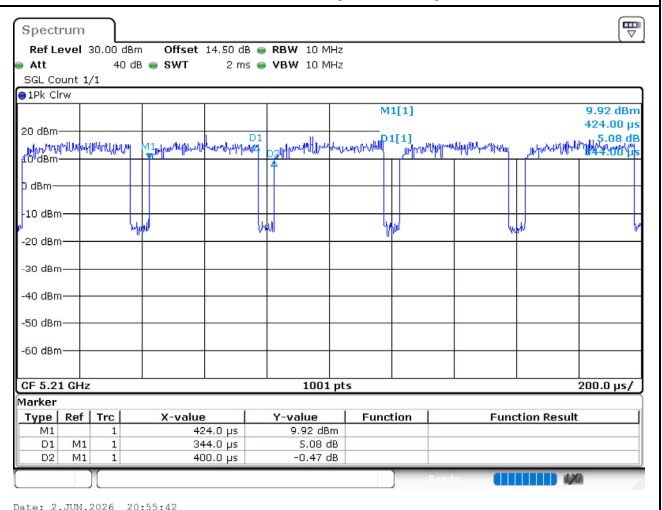
802.11be (20 MHz)



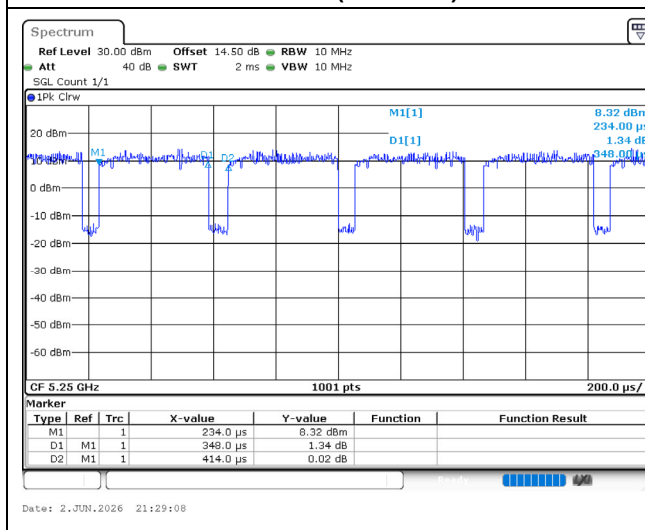
802.11be (40 MHz)



802.11be (80 MHz)



802.11be (160 MHz)



2.4. The Worst Case Measurement Configuration

Tests Item	AC Power Line Conducted Emission
Test Condition	AC power line conducted measurement for line and neutral
Operating Mode	Transmit
1	Model No.: Vigor 2928be + Adapter 1
2	Model No.: Vigor 2867be + Adapter 1
3	Model No.: Vigor 1220be + Adapter 1
The EUT was tested with two adapters (Adapter 1 and Adapter 2). After evaluation, Adapter 1 was determined to be the worst case; therefore, only Adapter 1 was tested.	

Tests Item	Emission Bandwidth Maximum Conducted Output Power Maximum Power Spectral Density
Test Condition	Conducted measurement at transmit chains
Operating Mode	Transmit
1	Model No.: Vigor 2928be + Adapter 1

Tests Item	Transmitter Radiated Spurious Emission
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Transmit
1	Model No.: Vigor 2928be + Adapter 1
2	Model No.: Vigor 2867be + Adapter 1
3	Model No.: Vigor 1220be + Adapter 1
Operating Mode > 1GHz	Transmit
1	Model No.: Vigor 2928be + Adapter 1
1. The EUT was performed at Y axis and Z axis position for radiated spurious emission test. The worst case was found at Z axis, so the measurement will follow this same test configuration. 2. The EUT was tested with two adapters (Adapter 1 and Adapter 2). After evaluation, Adapter 1 was determined to be the worst case; therefore, only Adapter 1 was tested.	

Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Transmit
1	Wi-Fi 2.4 GHz + Wi-Fi 5 GHz
Refer to Appendix F for Radiated Emission Co-location.	

Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	Transmit
1	Wi-Fi 2.4 GHz + Wi-Fi 5 GHz
Refer to DEKRA Test Report No.: 2650088R-RFUSV17S-A for Co-location RF Exposure Evaluation.	

Note:

1. Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. For radiated emission below 1 GHz and AC power line conducted emission have performed all modes of operation were investigated and the worst-case emissions are reported.
3. The modulation and bandwidth are similar for 802.11n mode for HT20/HT40, 802.11ac mode for VHT20/VHT40/VHT80/VHT160 and 802.11ax mode for HEW20/HEW40/HEW80/HEW160 and 802.11be mode for EHT20/EHT40/EHT80/EHT160, therefore investigated worst case to representative mode in test report.

2.5. Tested System Details

Test Mode: Moed 1

No.	Equipment	Brand Name	Model No.	Serial No.
1	Notebook	DELL	Latitude E7440	N/A
2	Notebook	DELL	Latitude E7440	NA
3	HUB	D-Link	DGS-1008D	F37S7AA00165
4	Adapter	MOSO	V30-V3000R120-036 T0 US	N/A
5	USB Dongle	ADATA	UV1281	N/A
6	USB Dongle	SanDisk	SDCZ52-008G	N/A
7	SFP+RJ45 Copper transceiver	xtramus	XA-ST02	OTXAST02P551
8	SFP+RJ45 Copper transceiver	xtramus	XA-ST02	OTXAST02P551

Test Mode: Moed 2

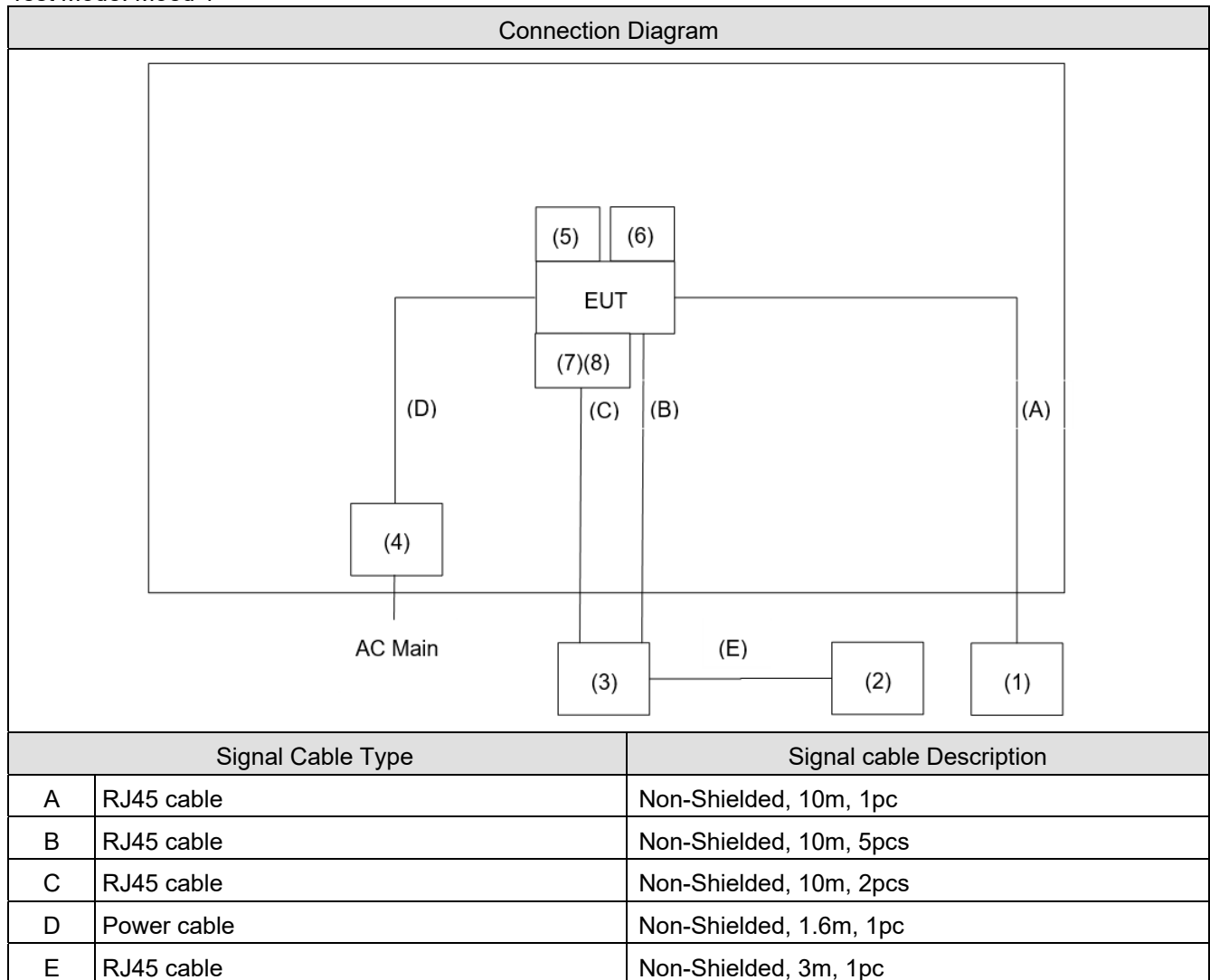
No.	Equipment	Brand Name	Model No.	Serial No.
1	Notebook	DELL	Latitude E7440	N/A
2	HUB	D-Link	DGS-1008D	F37S7AA00165
3	Adapter	MOSO	V30-V3000R120-036 T0 US	N/A
4	USB Dongle	ADATA	UV128	N/A
5	USB Dongle	SanDisk	SDCZ52-008G	N/A
6	SFP+RJ45 Copper transceiver	xtramus	XA-ST02	OTXAST02P551
7	Phone	TOSHIBA	DP5018D-S	N/A

Test Mode: Moed 3

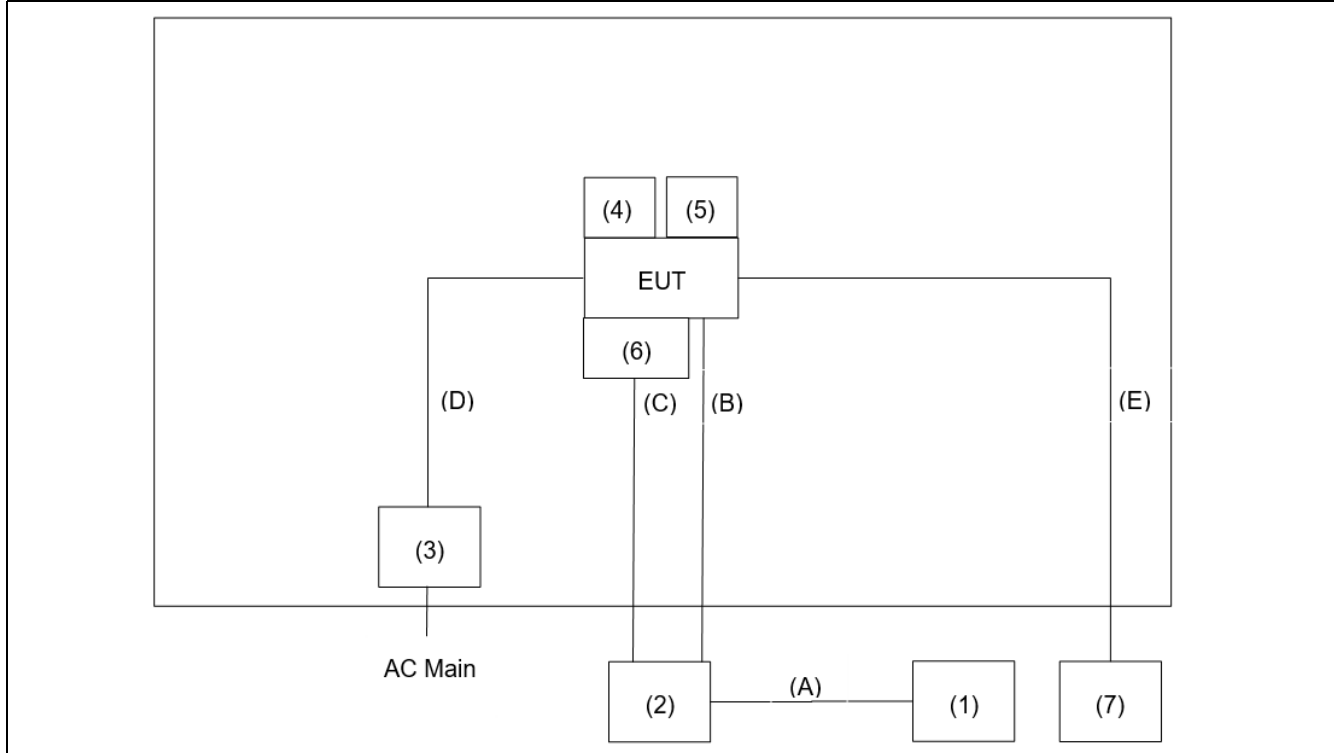
No.	Equipment	Brand Name	Model No.	Serial No.
1	Notebook	DELL	Latitude E7440	N/A
2	HUB	D-Link	DGS-1008D	F37S7AA00165
3	Adapter	MOSO	V30-V3000R120-036 T0 US	N/A
4	USB Dongle	ADATA	UV128	N/A
5	USB Dongle	SanDisk	SDCZ52-008G	N/A
6	XGS-PON Test Module	DrayTek	XGS-PON	N/A

2.6. Configuration of tested System

Test Mode: Moed 1

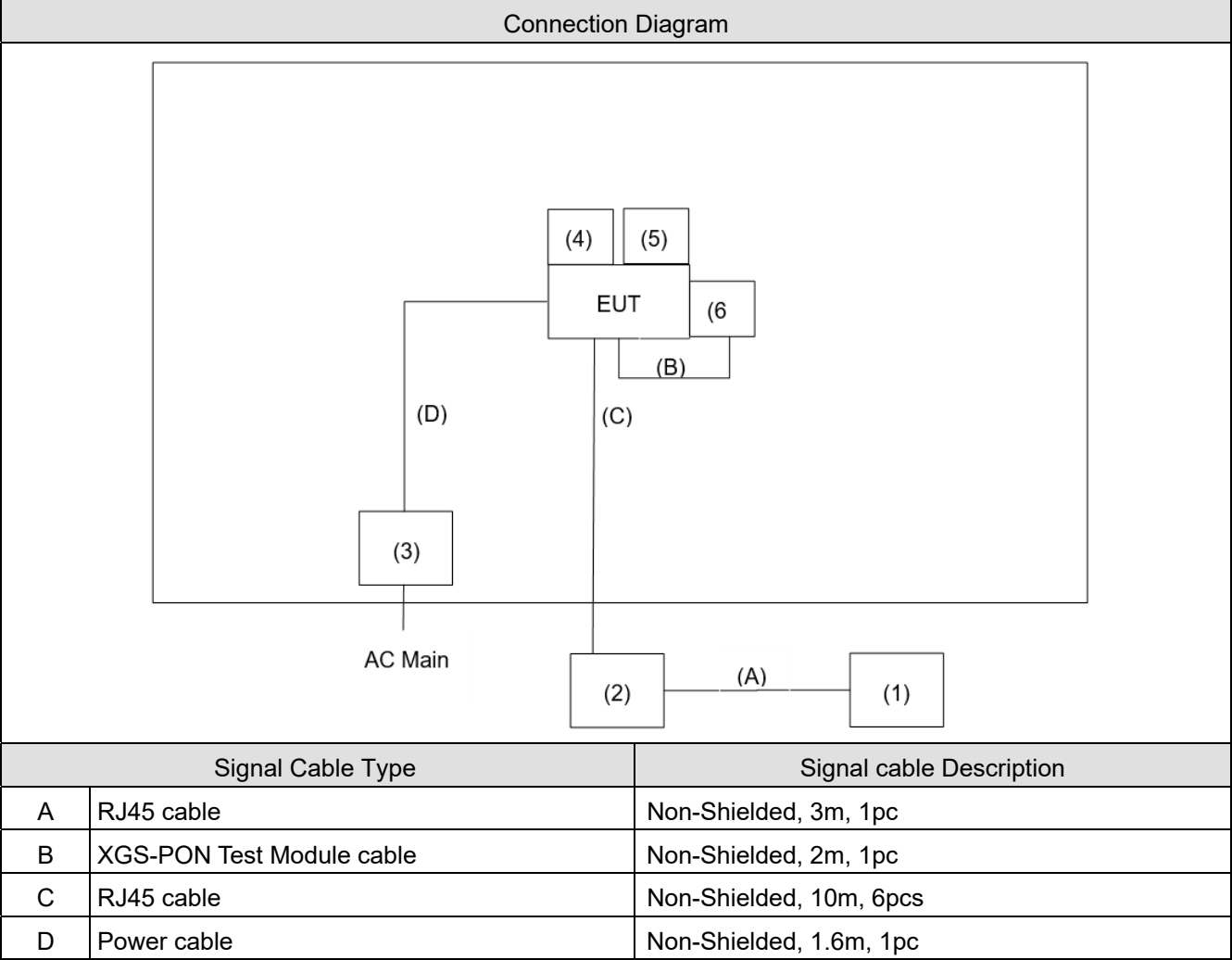


Connection Diagram



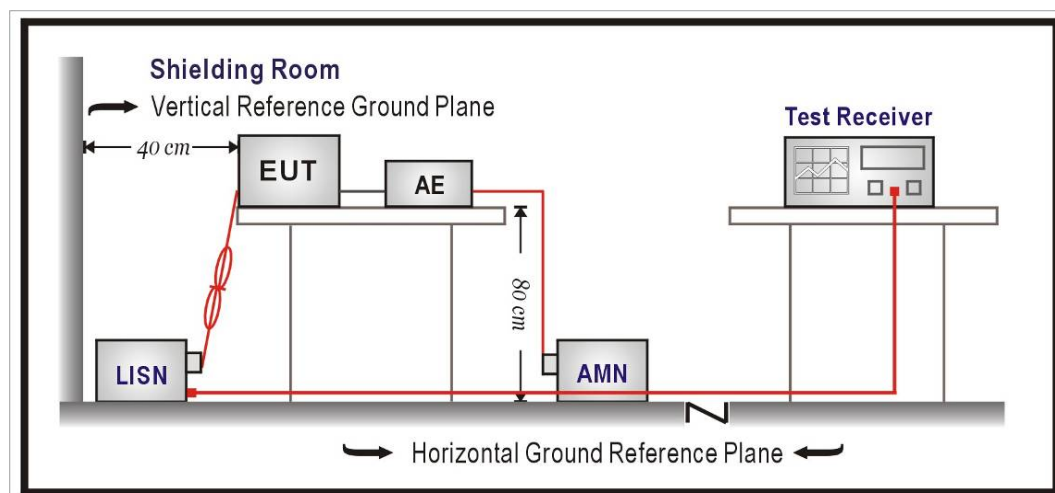
Signal Cable Type		Signal cable Description
A	RJ45 cable	Non-Shielded, 3m, 1pc
B	RJ45 cable	Non-Shielded, 10m, 6pcs
C	RJ45 cable	Non-Shielded, 10m, 1pc
D	Power cable	Non-Shielded, 1.6m, 1pc
E	RJ11 cable	Non-Shielded, 2.8m, 1pc

Test Mode: Moed 3



3. AC Power Line Conducted Emission

3.1. Test Setup



3.2. Test Limit

Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Remark: In the above table, the tighter limit applies at the band edges.

3.3. Test Procedure

The EUT was setup according to ANSI C63.10. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs.)

Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

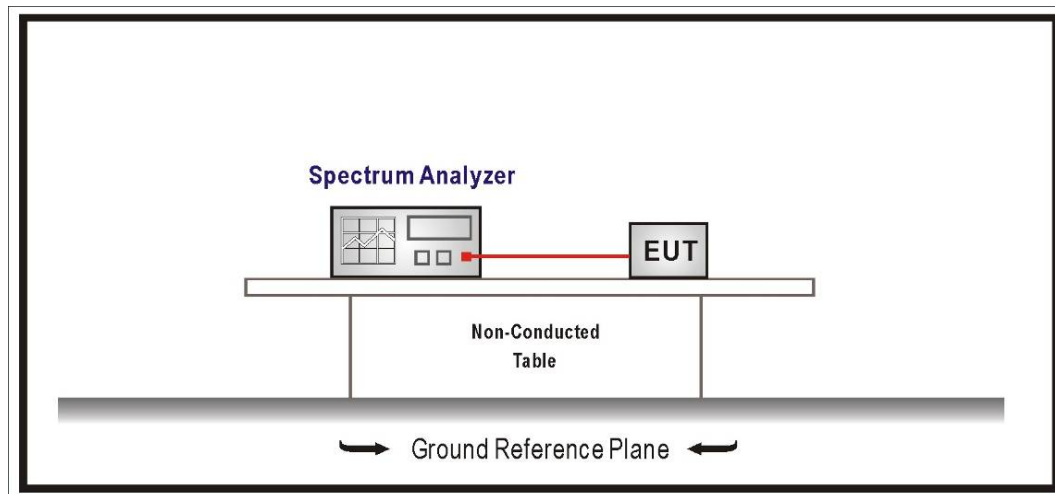
Conducted emissions were investigated over the frequency range from 0.15 MHz to 30 MHz using a receiver bandwidth of 9 kHz.

3.4. Test Result of AC Power Line Conducted Emission

Refer as Appendix A

4. Emission Bandwidth

4.1. Test Setup



4.2. Test Limit

99% & 26dB Bandwidth : No Required

6dB Bandwidth $\geq$ 500kHz

4.3. Test Procedure

99% & 26dB Bandwidth :

The EUT was tested according to U-NII test procedure of KDB 789033.

Set RBW 1% of the emission bandwidth, VBW equal to 3 times the RBW.

DTS Bandwidth :

Set RBW = 100kHz, VBW $\geq$ 3xRBW, Sweep time=Auto, Set Peak detector.

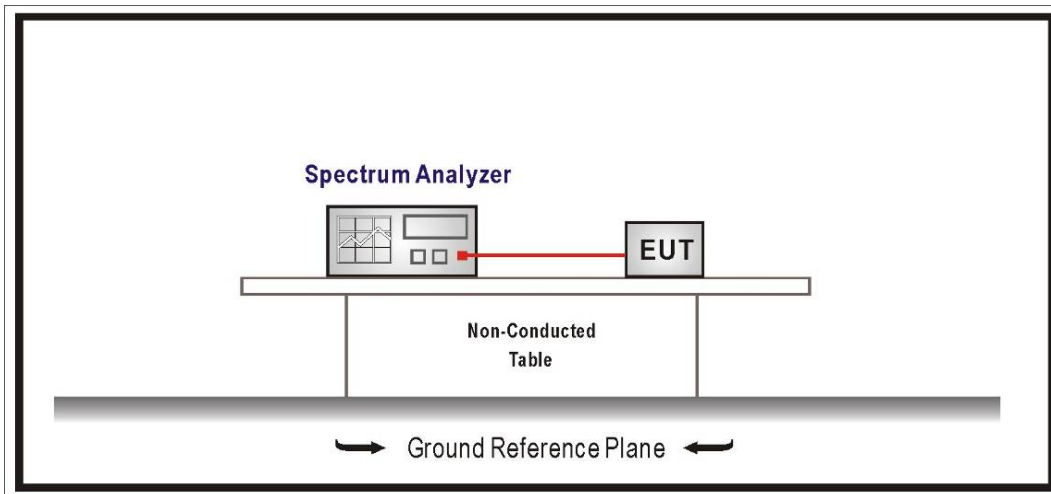
4.4. Test Result of Emission Bandwidth

Refer as Appendix B

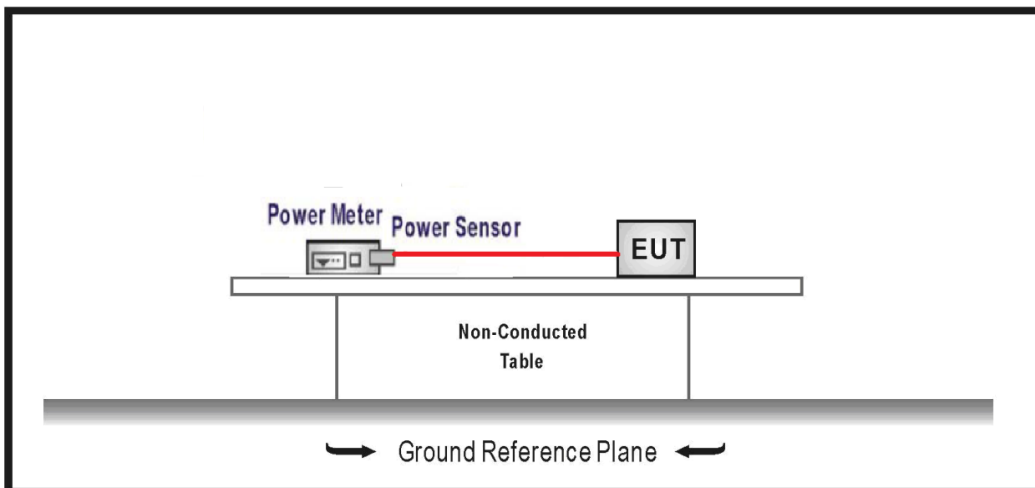
5. Maximum Conducted Output Power

5.1. Test Setup

For straddle channels:



For other channels:



5.2. Test Limit

1. For an outdoor access point and an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
2. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
3. For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
4. For the band 5.850–5.895 GHz:
For an indoor access point, the maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm. Indoor access points operating on a channel that spans the 5.725–5.850 GHz and 5.850–5.895 GHz bands must not exceed an e.i.r.p. of 36 dBm.
For client devices, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm. Client devices operating on a channel that spans the 5.725–5.850 GHz and 5.850–5.895 GHz bands must not exceed an e.i.r.p. of 30 dBm.
For a subordinate device, the maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm.

5.3. Test Procedure

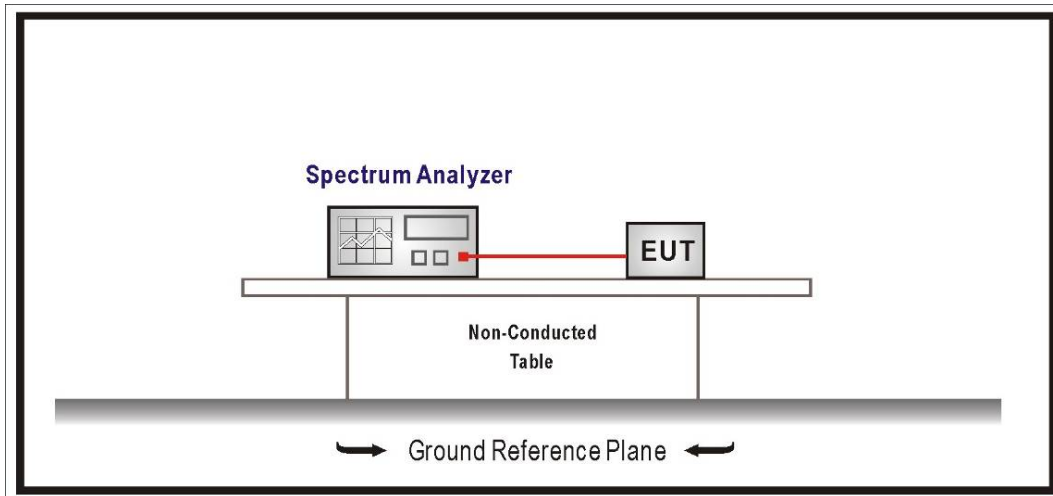
The EUT was setup to ANSI C63.10; tested according to U-NII test procedure of KDB 789033.

5.4. Test Result of Maximum Conducted Output Power

Refer as Appendix C

6. Maximum Power Spectral Density

6.1. Test Setup



6.2. Test Limit

1. For the band 5.15 ~ 5.25 GHz, the peak power spectral density shall not exceed 17 dBm in any 1 MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
2. For client devices in the 5.15 ~ 5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
3. For the 5.25 ~ 5.35 GHz, 5470 ~ 5725 MHz, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
4. For the band 5.725 ~ 5.850 GHz, the peak power spectral density shall not exceed 30 dBm in any 500 kHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
5. The frequency band 5.850 ~ 5.895 GHz:
 For an indoor access point operating in the 5.850–5.895 GHz band, the maximum power spectral density must not exceed 20 dBm e.i.r.p. in any 1–megahertz band.
 For client devices operating under the control of an indoor access point in the 5.850–5.895 GHz band, the maximum power spectral density must not exceed 14 dBm e.i.r.p. in any 1-megahertz band.
 For a subordinate device operating under the control of an indoor access point in the 5.850–5.895 GHz band, the maximum power spectral density must not exceed 20 dBm e.i.r.p in any 1–megahertz band.

6.3. Test Procedure

The EUT was setup to ANSI C63.10; tested to U-NII test procedure of KDB 789033.

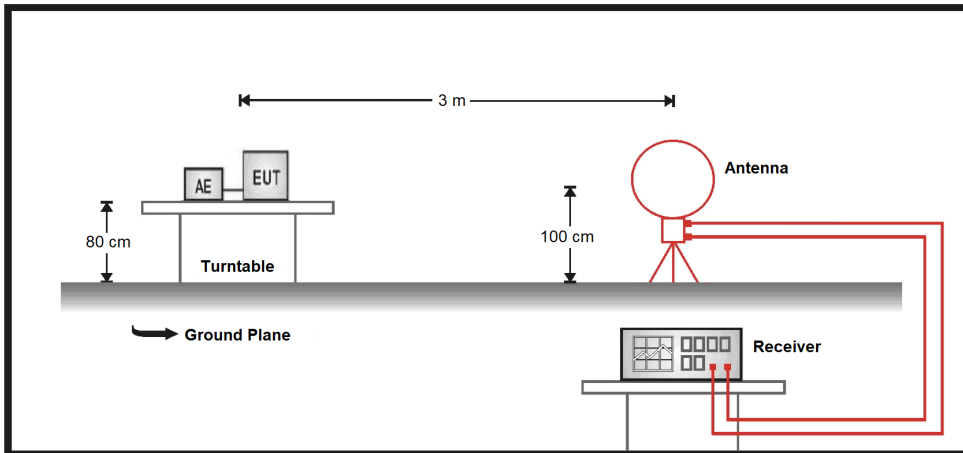
6.4. Test Result of Maximum Power Spectral Density

Refer as Appendix D

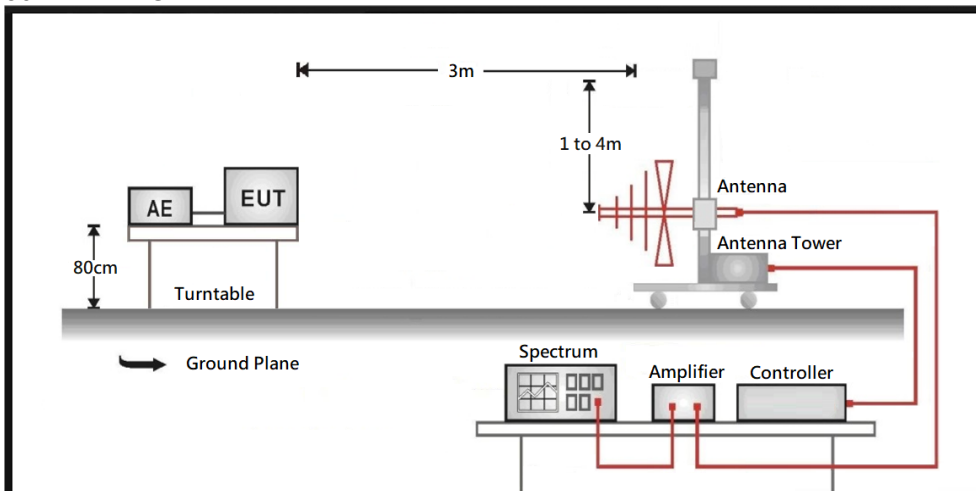
7. Transmitter Radiated Spurious Emission

7.1. Test Setup

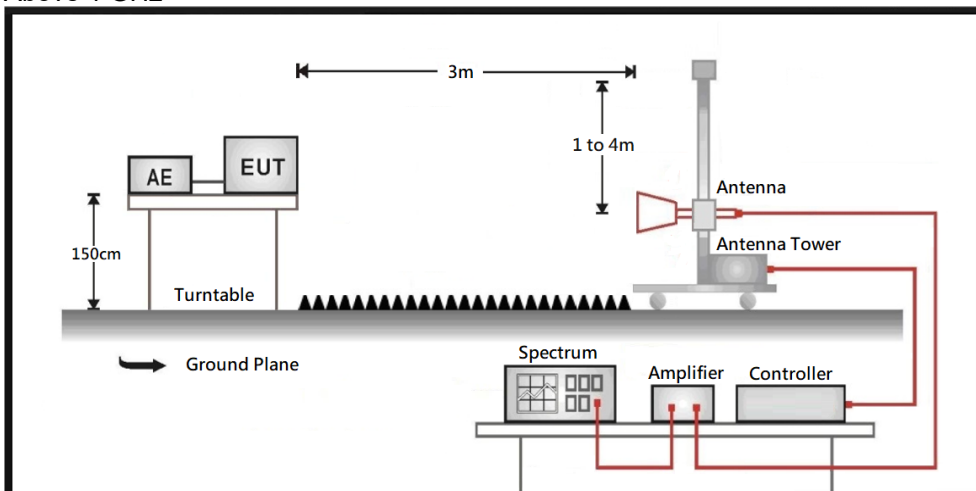
9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



7.2. Test Limit

Frequency (MHz)	Field strength (uV/m)	Field strength (dBuV/m)	Measurement distance (m)
0.009 – 0.490	2400/F(kHz)	20 log (2400/F(kHz))	300
0.490 – 1.705	24000/F(kHz)	20 log (24000/F(kHz))	30
1.705 - 30	30	29.5	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

Remarks:

1. Field strength (dBuV/m) = 20 log Field strength (uV/m)
2. In the Above Table, the tighter limit applies at the band edges.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system

Unwanted Emission out of the restricted bands Test Limit

Frequency (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength (dBuV/m@3m)
5150 – 5250	-27	68.2
5250 – 5350	-27	68.2
5470 – 5725	-27	68.2
5725 – 5850	-27 ^{*1}	68.2 ^{*1}
	10 ^{*2}	105.2 ^{*2}
	15.6 ^{*3}	110.8 ^{*3}
	27 ^{*4}	122.2 ^{*4}
5850 – 5895	(i) For an indoor access point or subordinate device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of -7 dBm/MHz at or above 5.925 GHz. (ii) For a client device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of -5 dBm/MHz and shall decrease linearly to an e.i.r.p. of -27 dBm/MHz at or above 5.925 GHz. (iii) For a client device or indoor access point or subordinate device, all emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.	
^{*1} beyond 75 MHz or more above of the band edge. ^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. ^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. ^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

Remark:

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \quad \text{uV/m, where P is the eirp (Watts).}$$

7.3. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 or 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10 on radiated measurement.

The additional latch filter below 1 GHz was used to measure the level of harmonics radiated emission during field strength of harmonics measurement.

The bandwidth below 1 GHz setting on the field strength meter is 120 kHz, above 1 GHz are 1 MHz.

The frequency range from 9 kHz to 10th harmonics and included The frequency range from the lowest oscillator frequency generated within the device up to the 10th harmonic was checked is checked.

7.4. Test Result of Transmitter Radiated Spurious Emission (Below 30 MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

7.5. Test Result of Transmitter Radiated Spurious Emission

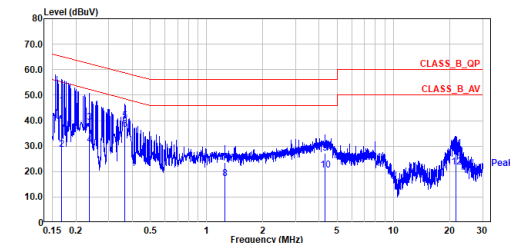
Refer as Appendix E

Appendix A. Test Result of AC Power Line Conducted Emission

Test Mode: Moed 1

TX_a_5580MHz_Line

Site :HC-SR02
Condition :-----,Line
Model No :TX_a_5580MHz
Test By :Cyril Chen

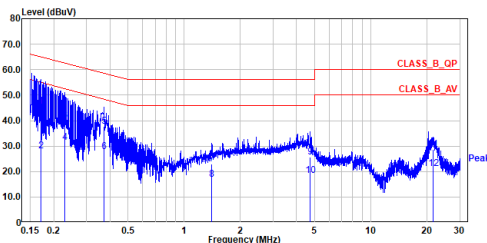


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	0.168	45.89	65.04	-19.15	36.27	9.62	QP
2	0.168	28.58	55.04	-26.46	18.96	9.62	Average
3	0.236	39.18	62.24	-23.06	29.55	9.63	QP
4	0.236	30.49	52.24	-21.75	20.86	9.63	Average
5	0.367	39.79	58.57	-18.78	30.15	9.64	QP
6	0.367	36.47	48.57	-12.10	26.83	9.64	Average
7	1.255	23.43	56.00	-32.57	13.72	9.71	QP
8	1.255	17.25	46.00	-28.75	7.54	9.71	Average
9	4.312	27.04	56.00	-28.96	17.18	9.86	QP
10	4.312	20.54	46.00	-25.46	10.68	9.86	Average
11	21.657	28.86	60.00	-31.14	18.56	10.30	QP
12	21.657	21.69	50.00	-28.31	11.39	10.30	Average

Note:
1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor
(Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

TX_a_5580MHz_Neutral

Site :HC-SR02
Condition :-----,Neutral
Model No :TX_a_5580MHz
Test By :Cyril Chen



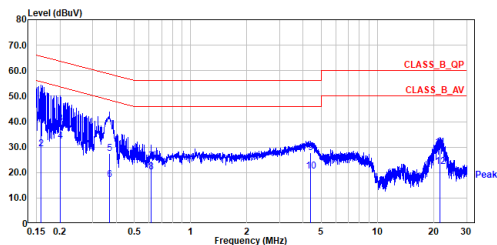
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	0.172	45.49	64.88	-19.39	35.87	9.62	QP
2	0.172	27.94	54.88	-26.94	18.32	9.62	Average
3	0.229	40.16	62.48	-22.32	30.53	9.63	QP
4	0.229	31.38	52.48	-21.10	21.75	9.63	Average
5	0.372	37.82	58.45	-20.63	28.18	9.64	QP
6	0.372	27.77	48.45	-20.68	18.13	9.64	Average
7	1.411	23.08	56.00	-32.92	13.36	9.72	QP
8	1.411	16.90	46.00	-29.10	7.18	9.72	Average
9	4.750	25.76	56.00	-30.24	15.87	9.89	QP
10	4.750	18.51	46.00	-27.49	8.62	9.89	Average
11	21.500	28.65	60.00	-31.35	18.14	10.51	QP
12	21.500	21.16	50.00	-28.84	10.65	10.51	Average

Note:
1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor
(Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Test Mode: Moed 2

TX_a_5580MHz_Line

Site :HC-SR02
Condition :-----,Line
Model No :TX_a_5580MHz
Test By :Cyril Chen



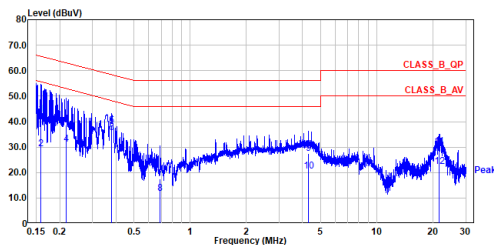
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	0.159	43.16	65.50	-22.34	33.54	9.62	QP
2	0.159	29.18	55.50	-26.32	19.56	9.62	Average
3	0.202	39.14	63.54	-24.40	29.52	9.62	QP
4	0.202	32.18	53.54	-21.36	22.56	9.62	Average
5	0.368	27.37	58.55	-31.18	17.73	9.64	QP
6	0.368	17.19	48.55	-31.36	7.55	9.64	Average
7	0.616	24.42	56.00	-31.58	14.76	9.66	QP
8	0.616	20.11	46.00	-25.89	10.45	9.66	Average
9	4.375	27.72	56.00	-28.28	17.85	9.87	QP
10	4.375	20.62	46.00	-25.38	10.75	9.87	Average
11	21.586	29.91	60.00	-30.09	19.61	10.30	QP
12	21.586	22.48	50.00	-27.52	12.18	10.30	Average

Note:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor
(Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

TX_a_5580MHz_Neutral

Site :HC-SR02
Condition :-----,Neutral
Model No :TX_a_5580MHz
Test By :Cyril Chen



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	0.158	42.86	65.55	-22.69	33.24	9.62	QP
2	0.158	29.34	55.55	-26.21	19.72	9.62	Average
3	0.217	38.56	62.94	-24.38	28.93	9.63	QP
4	0.217	31.09	52.94	-21.85	21.46	9.63	Average
5	0.381	38.34	58.26	-19.92	28.70	9.64	QP
6	0.381	35.52	48.26	-12.74	25.88	9.64	Average
7	0.688	17.45	56.00	-38.55	7.78	9.67	QP
8	0.688	11.67	46.00	-34.33	2.00	9.67	Average
9	4.289	27.52	56.00	-28.48	17.66	9.86	QP
10	4.289	20.56	46.00	-25.44	10.70	9.86	Average
11	21.573	30.07	60.00	-29.93	19.56	10.51	QP
12	21.573	22.24	50.00	-27.76	11.73	10.51	Average

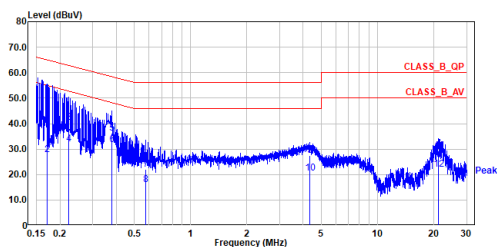
Note:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor
(Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Test Mode: Moed 3

TX_a_5580MHz_Line

Site :HC-SR02
 Condition :-----,Line
 Model No :TX_a_5580MHz
 Test By :Cyril Chen



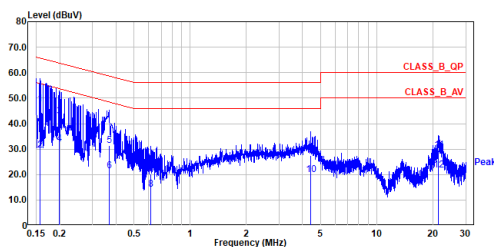
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	0.171	46.25	64.93	-18.68	36.63	9.62	QP
2	0.171	27.84	54.93	-27.09	18.22	9.62	Average
3	0.223	40.51	62.71	-22.20	30.88	9.63	QP
4	0.223	31.98	52.71	-20.73	22.35	9.63	Average
5	0.378	36.26	58.33	-22.07	26.62	9.64	QP
6	0.378	31.71	48.33	-16.62	22.07	9.64	Average
7	0.578	21.94	56.00	-34.06	12.28	9.66	QP
8	0.578	16.02	46.00	-29.98	6.36	9.66	Average
9	4.334	27.42	56.00	-28.58	17.55	9.87	QP
10	4.334	20.63	46.00	-25.37	10.76	9.87	Average
11	21.246	29.40	60.00	-30.60	19.11	10.29	QP
12	21.246	22.04	50.00	-27.96	11.75	10.29	Average

Note:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor
(Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

TX_a_5580MHz_Neutral

Site :HC-SR02
 Condition :-----,Neutral
 Model No :TX_a_5580MHz
 Test By :Cyril Chen



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	0.158	47.64	65.58	-17.94	38.02	9.62	QP
2	0.158	29.63	55.58	-25.95	20.01	9.62	Average
3	0.199	42.75	63.63	-20.88	33.13	9.62	QP
4	0.199	31.94	53.63	-21.69	22.32	9.62	Average
5	0.370	31.51	58.50	-26.99	21.87	9.64	QP
6	0.370	21.43	48.50	-27.07	11.79	9.64	Average
7	0.616	20.18	56.00	-35.82	10.52	9.66	QP
8	0.616	14.27	46.00	-31.73	4.61	9.66	Average
9	4.428	27.59	56.00	-28.41	17.71	9.88	QP
10	4.428	19.92	46.00	-26.08	10.04	9.88	Average
11	21.457	29.56	60.00	-30.44	19.05	10.51	QP
12	21.457	21.88	50.00	-28.12	11.37	10.51	Average

Note:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor
(Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Appendix B. Test Result of Emission Bandwidth

Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)				26dB Bandwidth (MHz)				Limit (MHz)	
		Ant. 1	Ant. 2	Ant. 3	Ant. 4	Ant. 1	Ant. 2	Ant. 3	Ant. 4	99% Occupied Bandwidth & 26dB Bandwidth	
802.11a (20MHz)	5180	16.38	16.38	16.42	16.42	18.56	20.04	19.12	18.44	-	
	5220	16.34	16.34	16.34	16.34	18.28	18.40	18.44	18.16	-	
	5240	16.34	16.34	16.34	16.34	18.28	18.32	18.28	18.20	-	
	5260	16.34	16.34	16.34	16.34	18.28	18.24	18.16	18.20	-	
	5300	16.42	16.38	16.42	16.38	19.88	20.88	19.28	19.28	-	
	5320	16.38	16.42	16.42	16.42	19.44	20.40	19.80	18.44	-	
	5500	16.38	16.38	16.38	16.38	18.60	20.48	21.28	20.48	-	
	5580	16.34	16.34	16.30	16.30	18.24	18.36	18.28	18.16	-	
	5700	16.42	16.42	16.34	16.42	20.44	21.04	18.92	18.56	-	
	5720 (UNII-2C)	13.27	13.27	13.27	13.27	14.24	14.36	14.16	14.16	-	
Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)				DTS Bandwidth (MHz)				Limit (MHz)	
		Ant. 1	Ant. 2	Ant. 3	Ant. 4	Ant. 1	Ant. 2	Ant. 3	Ant. 4	99% Occupied Bandwidth	DTS Bandwidth
802.11a (20MHz)	5720 (UNII-3)	3.19	3.19	3.23	3.23	3.12	3.12	3.12	3.12	-	≥ 0.5
	5745	17.46	16.50	16.50	16.74	16.28	16.32	15.92	16.32	-	≥ 0.5
	5785	17.94	16.54	17.02	16.74	15.72	16.32	16.32	16.32	-	≥ 0.5
	5825	17.82	16.74	17.58	17.22	16.32	16.28	16.32	16.32	-	≥ 0.5

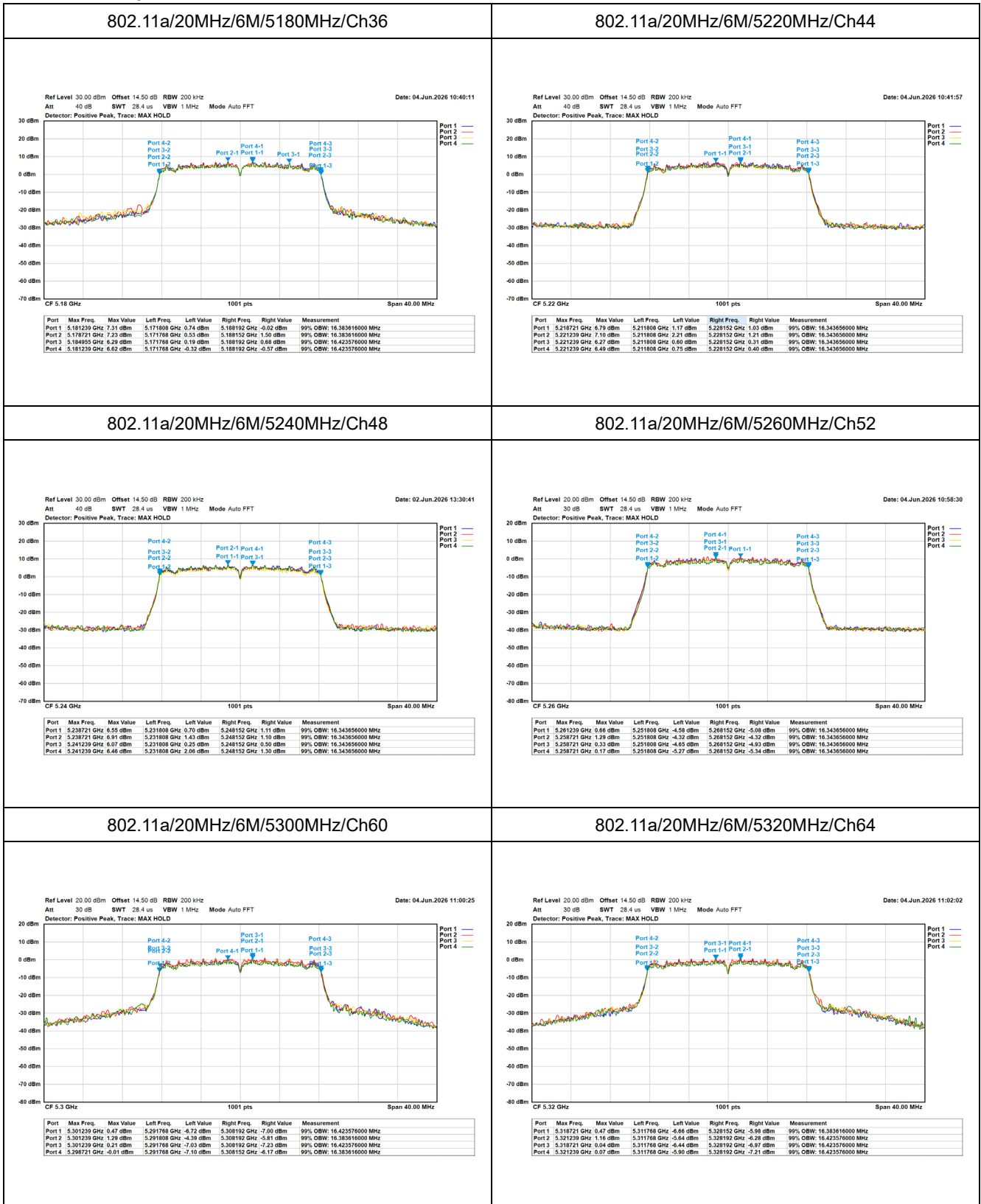
Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)				26dB Bandwidth (MHz)				Limit (MHz)	
		Ant. 1	Ant. 2	Ant. 3	Ant. 4	Ant. 1	Ant. 2	Ant. 3	Ant. 4	99% Occupied Bandwidth & 26dB Bandwidth	
802.11be (20MHz)	5180	18.86	18.90	18.86	18.82	19.88	20.92	20.24	19.88	-	
	5220	18.82	18.82	18.82	18.82	19.80	19.76	19.84	19.72	-	
	5240	18.86	18.82	18.82	18.86	19.88	19.88	19.84	19.84	-	
	5260	18.82	18.82	18.86	18.86	19.88	19.80	19.84	19.84	-	
	5300	18.90	18.86	18.90	18.86	20.84	23.68	20.08	19.92	-	
	5320	18.86	18.86	18.90	18.86	19.88	21.72	20.16	19.92	-	
	5500	18.86	18.86	18.90	18.86	21.04	23.36	19.84	19.80	-	
	5580	18.86	18.86	18.82	18.86	19.84	19.80	19.88	19.80	-	
	5700	18.90	18.86	18.90	18.90	19.88	21.12	20.44	19.92	-	
	5720 (UNII-2C)	14.47	14.51	14.47	14.47	14.92	14.96	15.00	14.92	-	
Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)				DTS Bandwidth (MHz)				Limit (MHz)	
		Ant. 1	Ant. 2	Ant. 3	Ant. 4	Ant. 1	Ant. 2	Ant. 3	Ant. 4	99% Occupied Bandwidth	DTS Bandwidth
802.11be (20MHz)	5720 (UNII-3)	4.39	4.39	4.43	4.39	4.40	4.40	4.40	4.40	-	≥ 0.5
	5745	18.98	18.94	18.94	18.94	18.60	18.88	18.68	18.84	-	≥ 0.5
	5785	19.02	18.94	19.02	18.94	18.72	18.64	18.64	18.56	-	≥ 0.5
	5825	19.06	18.94	18.98	19.02	18.48	18.72	18.72	18.68	-	≥ 0.5

Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)				26dB Bandwidth (MHz)				Limit (MHz)	
		Ant. 1	Ant. 2	Ant. 3	Ant. 4	Ant. 1	Ant. 2	Ant. 3	Ant. 4	99% Occupied Bandwidth & 26dB Bandwidth	
802.11be (40MHz)	5190	37.56	37.56	37.72	37.64	39.52	39.52	39.44	39.44	-	
	5230	37.48	37.48	37.56	37.56	39.36	39.52	39.44	39.28	-	
	5270	37.48	37.40	37.48	37.40	39.36	39.44	39.36	39.36	-	
	5310	37.56	37.64	37.56	37.64	39.52	39.68	39.52	39.44	-	
	5510	37.56	37.64	37.72	37.40	39.44	39.44	39.36	39.44	-	
	5550	37.64	37.40	37.64	37.56	39.52	39.36	39.52	39.52	-	
	5670	37.72	37.56	37.80	37.56	39.44	39.52	39.44	39.44	-	
	5710 (UNII-2C)	33.78	33.86	33.86	33.86	34.60	34.84	34.76	34.60	-	
Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)				DTS Bandwidth (MHz)				Limit (MHz)	
		Ant. 1	Ant. 2	Ant. 3	Ant. 4	Ant. 1	Ant. 2	Ant. 3	Ant. 4	99% Occupied Bandwidth	DTS Bandwidth
802.11be (40MHz)	5710 (UNII-3)	3.78	3.78	3.86	3.78	3.00	3.24	3.24	3.00	-	≥ 0.5
	5755	37.88	37.88	37.80	37.80	36.00	35.12	35.12	35.60	-	≥ 0.5
	5795	37.96	37.80	37.96	37.96	35.84	35.12	35.84	36.16	-	≥ 0.5

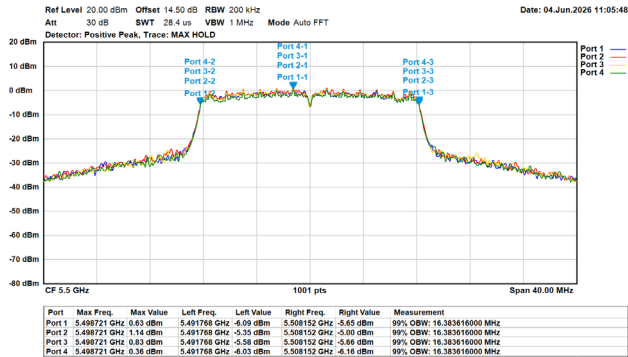
Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)				26dB Bandwidth (MHz)				Limit (MHz)	
		Ant. 1	Ant. 2	Ant. 3	Ant. 4	Ant. 1	Ant. 2	Ant. 3	Ant. 4	99% Occupied Bandwidth & 26dB Bandwidth	
802.11be (80MHz)	5210	77.36	77.04	77.20	77.04	80.00	80.64	79.84	80.00	-	
	5290	76.56	76.56	76.88	76.88	80.00	80.00	80.00	79.68	-	
	5530	76.72	76.88	76.88	76.56	80.00	80.64	80.16	79.84	-	
	5610	77.04	76.40	76.72	77.04	80.00	79.68	79.68	79.84	-	
	5690 (UNII-2C)	73.52	73.68	73.52	73.52	75.00	75.00	74.84	75.00	-	
Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)				DTS Bandwidth (MHz)				Limit (MHz)	
		Ant. 1	Ant. 2	Ant. 3	Ant. 4	Ant. 1	Ant. 2	Ant. 3	Ant. 4	99% Occupied Bandwidth	DTS Bandwidth
802.11be (80MHz)	5690 (UNII-3)	3.36	3.36	3.68	3.52	2.60	2.60	2.60	3.24	-	≥ 0.5
	5775	77.68	77.20	77.04	77.04	75.20	75.20	75.20	75.20	-	≥ 0.5

Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)				26dB Bandwidth (MHz)				Limit (MHz)
		Ant. 1	Ant. 2	Ant. 3	Ant. 4	Ant. 1	Ant. 2	Ant. 3	Ant. 4	99% Occupied Bandwidth & 26dB Bandwidth
802.11be (160MHz)	5250 (UNII-1)	77.68	77.68	78.00	78.00	81.28	80.96	81.60	80.96	-
	5250 (UNII-2A)	78.32	78.00	77.68	77.68	80.96	83.52	81.28	80.96	-
	5570	156.64	156.64	156.96	157.28	162.56	162.24	167.04	168.00	-

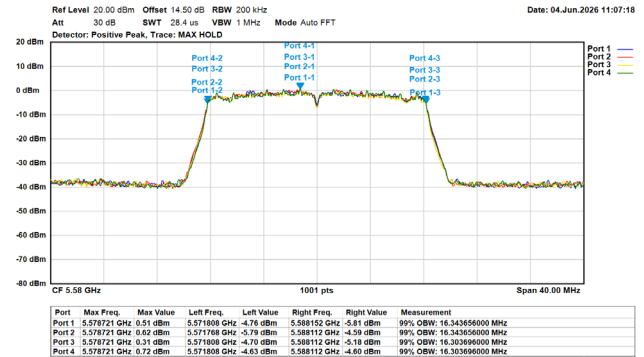
For 99% Occupied Bandwidth:



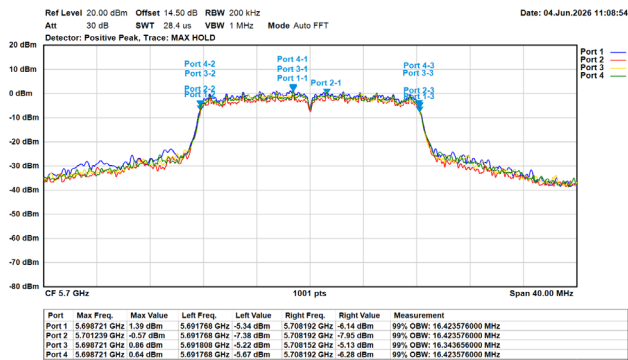
802.11a/20MHz/6M/5500MHz/Ch100



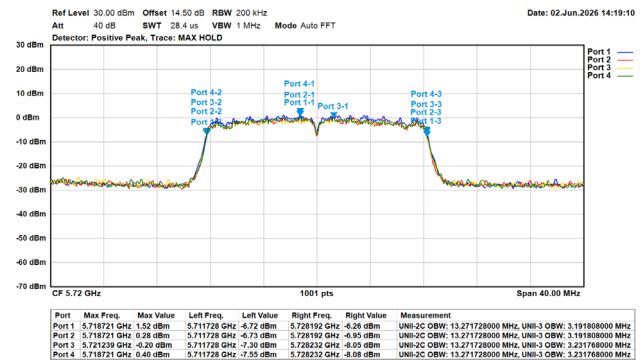
802.11a/20MHz/6M/5580MHz/Ch116



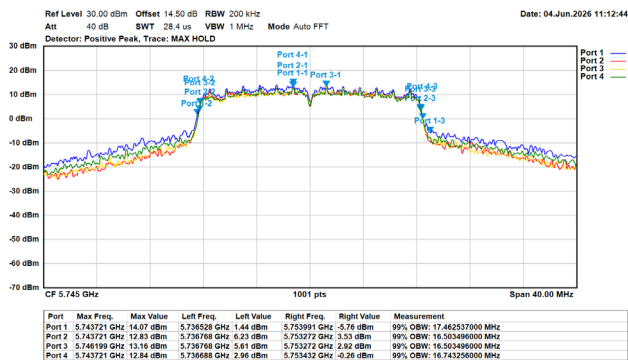
802.11a/20MHz/6M/5700MHz/Ch140



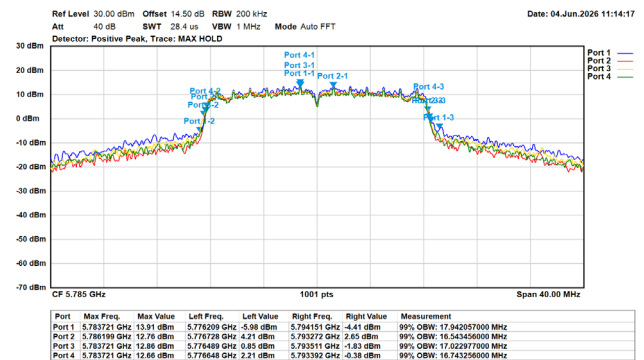
802.11a/20MHz/6M/5720MHz/Ch144



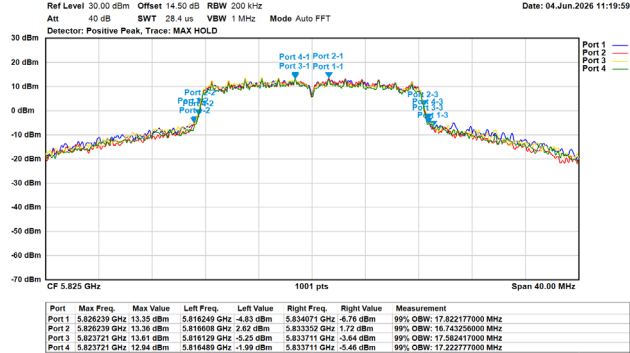
802.11a/20MHz/6M/5745MHz/Ch149



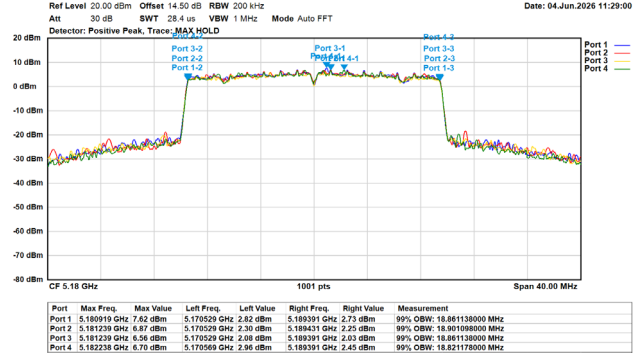
802.11a/20MHz/6M/5785MHz/Ch157



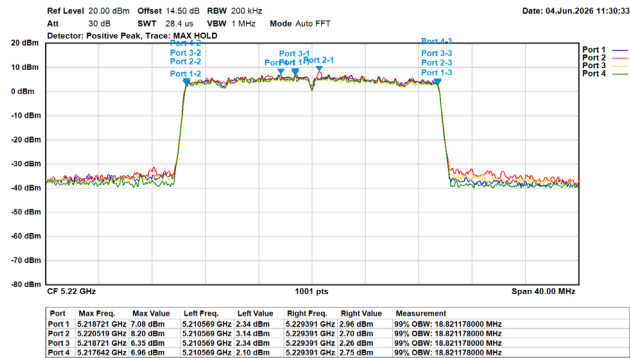
802.11a/20MHz/6M/5825MHz/Ch165



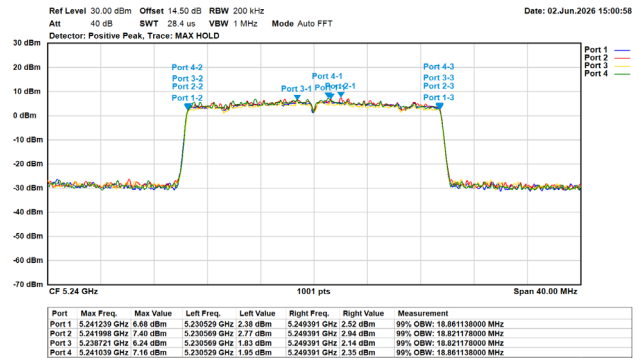
802.11be/20MHz/MCS0/5180MHz/Ch36



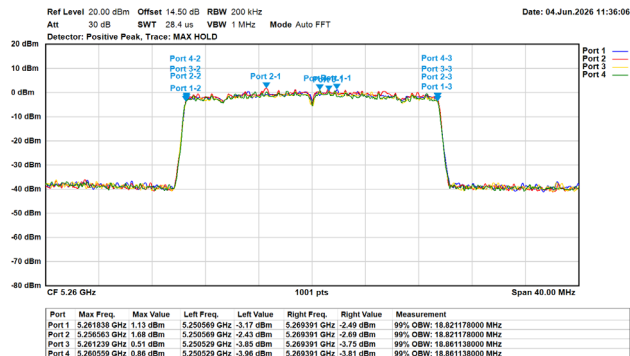
802.11be/20MHz/MCS0/5220MHz/Ch44



802.11be/20MHz/MCS0/5240MHz/Ch48



802.11be/20MHz/MCS0/5260MHz/Ch52



802.11be/20MHz/MCS0/5300MHz/Ch60

