

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)

Report No.: RFCDBM-WTW-P23040035

FCC ID: QOQ-GM241S

Product: Bluetooth Low Energy wireless radio module with Channel Sounding

Brand: SILICON LABS

Model No.: BGM241S22A

Received Date: 2023/4/6

Test Date: 2023/4/17 ~ 2023/5/5

Issued Date: 2023/7/26

Applicant: Silicon Laboratories Finland Oy

Address: Alberga Business Park, Bertel Jungin aukio 3, 02600 Espoo, Finland

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location (1): No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kewi Shan Dist., Taoyuan City 33383, Taiwan

Test Location (2): No. 70, Wenming Rd., Guishan Dist., Taoyuan City 333, Taiwan

FCC Registration / 788550 / TW0003

Designation Number: 281270 / TW0032

Approved by: Jeremy Lin, **Date:** 2023/7/26
Jeremy Lin / Project Engineer

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Prepared by : Lena Wang / Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFCDBM-WTW-P23040035	Original Release	2023/7/26

1 Certificate

Product: Bluetooth Low Energy wireless radio module with Channel Sounding

Brand: SILICON LABS

Test Model: BGM241S22A

Sample Status: Engineering samples fully representing the production modules

Applicant: Silicon Laboratories Finland Oy

Test Date: 2023/4/17 ~ 2023/5/5

Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)

Measurement ANSI C63.10-2013

procedure: KDB 558074 D01 15.247 Meas Guidance v05r02

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.247)			
Standard / Clause	Test Item	Result	Remark
15.247(b)	RF Output Power	Pass	Meet the requirement of limit.
15.247(e)	Power Spectral Density	Pass	Meet the requirement of limit.
15.247(a)(2)	6 dB Bandwidth	Pass	Meet the requirement of limit.
15.247(d)	Conducted Out of Band Emissions	Pass	Meet the requirement of limit.
15.207	AC Power Conducted Emissions	Pass	Minimum passing margin is -13.99 dB at 0.15000 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -5.9 dB at 30.00 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -2.1 dB at 2483.50 MHz
15.203	Antenna Requirement	Pass	Integral PCB Trace Antenna: No antenna connector is used. RF pin: Antenna connector is RP-SMA not a standard connector.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Specification	Expanded Uncertainty (k=2) (±)
Conducted Out of Band Emissions	9 kHz ~ 40 GHz	2.79 dB
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.79 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3 dB
	30 MHz ~ 1 GHz	2.93 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	1.76 dB
	18 GHz ~ 40 GHz	1.77 dB

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 General Description

Product	Bluetooth Low Energy wireless radio module with Channel Sounding	
Brand	SILICON LABS	
Test Model	BGM241S22A	
Status of EUT	Engineering samples fully representing the production modules	
Power Supply Rating	EUT nominal supply range: 1.8V to 3.8V EUT supply during testing: 3.3V (regulated by host system, being supplied by 5Vdc via the USB port)	
Modulation Type	GFSK, ASK	
Modulation Technology	DTS	
Transfer Rate	GFSK	1MBaud with Coded 125kbps transfer rate 1MBaud with Coded 500kbps transfer rate 1MBaud with 1Mbps transfer rate 2MBaud with 2Mbps transfer rate
	ASK	1MBaud PHY with Channel Sounding
Operating Frequency	2.402 GHz ~ 2.48 GHz	
Number of Channel	1MBaud: 40 2MBaud: 37 1MBaud with Channel Sounding: 72	
Output Power	1MBaud with Channel Sounding: 10.257mW (10.11 dBm) 1MBaud with Coded 125kbps: 10.28mW (10.12 dBm) 1MBaud with Coded 500kbps: 10.328mW (10.14 dBm) 1MBaud with 1Mbps: 10.375mW (10.16 dBm) 2MBaud: 10.257mW (10.11 dBm)	

Note: The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

No.	Type	Connector	Gain (dBi)	Remark
1	Integral ground loop antenna realized by a PCB trace design	NA	1.48	-
2	External reference dipole antenna**	RP-SMA	2.80	-

* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

** The dipole antenna is not sold with the EUT, but is used during testing as a reference antenna for radiated measurements of the parts making use of the RF pin.

2. Power setting is as below:

<1MBaud PHY with Channel Sounding>

Channel	Power Setting
2	100
3	100
38	100
75	100
76	100

<1MBaud PHY with 125kbps>

Channel	Power Setting
0	100
1	100
19	100
38	100
39	100

<1MBaud PHY with 500kbps>

Channel	Power Setting
0	100
1	100
19	100
38	100
39	100

<1MBaud PHY with 1Mbps>

Channel	Power Setting
0	100
1	100
19	100
38	100
39	100

<2MBaud PHY>

Channel	Power Setting
1	100
19	100
38	100

3.3 Channel List

1MBaud PHY

40 channels are provided to this EUT:

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

Note:

1. The channels which were indicated in bold type of the above channel list were selected as representative test channel. Therefore only the data of the test channels were recorded in this report.
2. Physical Channels 0, 12 and 39 are special low-duty-cycle channels used only for BLE advertising mode.

2MBaud PHY

37 channels are provided to this EUT:

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
1	2404	11	2424	21	2444	31	2464
2	2406	-	-	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460		
10	2422	20	2442	30	2462		

Note: The channels which were indicated in bold type of the above channel list were selected as representative test channel. Therefore only the data of the test channels were recorded in this report.

1MBaud PHY with Channel Sounding

72 channels are provided to this EUT:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
2	2404	22	2424	45	2447	65	2467
3	2405	26	2428	46	2448	66	2468
4	2406	27	2429	47	2449	67	2469
5	2407	28	2430	48	2450	68	2470
6	2408	29	2431	49	2451	69	2471
7	2409	30	2432	50	2452	70	2472
8	2410	31	2433	51	2453	71	2473
9	2411	32	2434	52	2454	72	2474
10	2412	33	2435	53	2455	73	2475
11	2413	34	2436	54	2456	74	2476
12	2414	35	2437	55	2457	75	2477
13	2415	36	2438	56	2458	76	2478
14	2416	37	2439	57	2459		
15	2417	38	2440	58	2460		
16	2418	39	2441	59	2461		
17	2419	40	2442	60	2462		
18	2420	41	2443	61	2463		
19	2421	42	2444	62	2464		
20	2422	43	2445	63	2465		
21	2423	44	2446	64	2466		

Note: The channels which were indicated in bold type of the above channel list were selected as representative test channel. Therefore only the data of the test channels were recorded in this report.

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. EUT can be used in the following ways: X-axis/ Y-axis/ Z-axis. Pre-scan these ways and find the worst case as a representative test condition.
Worst Case:	1. Z-axis Worst Condition:Mode A / X-axis Worst Condition:Mode B

Following channel(s) was (were) selected for the final test as listed below:

Test Item	EUT Configure Mode	Mode	Tested Channel	Modulation	Data Rate Parameter
RF Output Power / Power Spectral Density	B	1MBaud PHY with Channel Sounding	2, 3, 38, 75, 76	ASK	1Mb/s
		1MBaud PHY with 125kbps	0, 1, 19, 38, 39	GFSK	125kb/s
		1MBaud PHY with 500kbps	0, 1, 19, 38, 39	GFSK	500kb/s
		1MBaud PHY with 1Mbps	0, 1, 19, 38, 39	GFSK	1Mb/s
		2MBaud PHY	1, 19, 38	GFSK	2Mb/s
6 dB Bandwidth / Conducted Out of Band Emissions	B	1MBaud PHY with Channel Sounding	2, 3, 38, 75, 76	ASK	1Mb/s
		1MBaud PHY with 125kbps	0, 1, 19, 38, 39	GFSK	125kb/s
		1MBaud PHY with 500kbps	0, 1, 19, 38, 39	GFSK	500kb/s
		1MBaud PHY with 1Mbps	0, 1, 19, 38, 39	GFSK	1Mb/s
		2MBaud PHY	1, 19, 38	GFSK	2Mb/s
AC Power Conducted Emissions	A & B	1MBaud PHY with Channel Sounding	2	ASK	1Mb/s
		1MBaud PHY with 1Mbps	0	GFSK	1Mb/s
Unwanted Emissions below 1 GHz	A & B	1MBaud PHY with Channel Sounding	2	ASK	1Mb/s
		1MBaud PHY with 1Mbps	0	GFSK	1Mb/s
Unwanted Emissions above 1 GHz	A & B	1MBaud PHY with Channel Sounding	2, 3, 38, 75, 76	ASK	1Mb/s
		1MBaud PHY with 125kbps	0, 1, 19, 38, 39	GFSK	125kb/s
		1MBaud PHY with 500kbps	0, 1, 19, 38, 39	GFSK	500kb/s
		1MBaud PHY with 1Mbps	0, 1, 19, 38, 39	GFSK	1Mb/s
		2MBaud PHY	1, 19, 38	GFSK	2Mb/s
EUT Configure Mode:	A	EUT with integral antenna			
	B	EUT with external antenna			

3.5 Duty Cycle of Test Signal

1MBaud PHY with Channel Sounding: Duty cycle = 0.056 ms / 0.466 ms x 100% = 12.0%, duty factor = 10 * log (1/Duty cycle) = 9.20 dB

1MBaud PHY with 500kbps: Duty cycle = 100 ms / 100 ms x 100% = 100.0%

2MBaud PHY: Duty cycle = 1.012 ms / 1.25 ms x 100% = 81.0%, duty factor = 10 * log (1/Duty cycle) = 0.92 dB

1MBaud PHY with 125kbps & 1MBaud PHY with 1Mbps: CH 0, 39

Duty cycle = 1.175 ms / 25.812 ms x 100% = 4.6%, duty factor = 10 * log (1/Duty cycle) = 13.42 dB

*This is in particular for the advertising channels.

1MBaud PHY with 125kbps & 1MBaud PHY with 1Mbps: CH 1, 19, 38

Duty cycle = 2.254 ms / 2.511 ms x 100% = 89.8%, duty factor = 10 * log (1/Duty cycle) = 0.47 dB

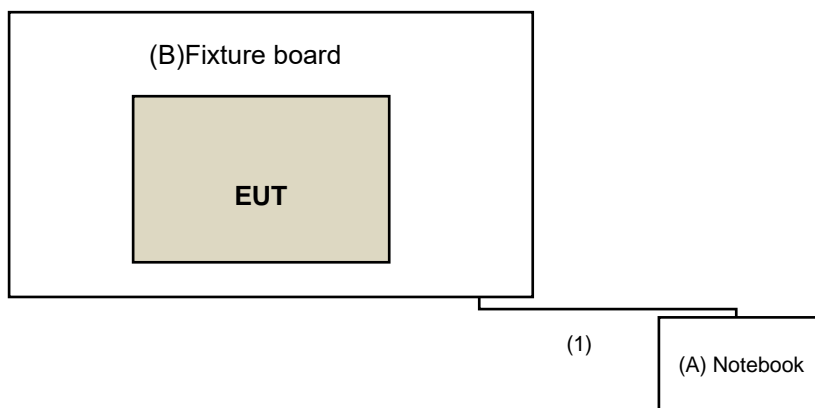


3.6 Test Program Used and Operation Descriptions

Controlling software Python 3.10.3 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices

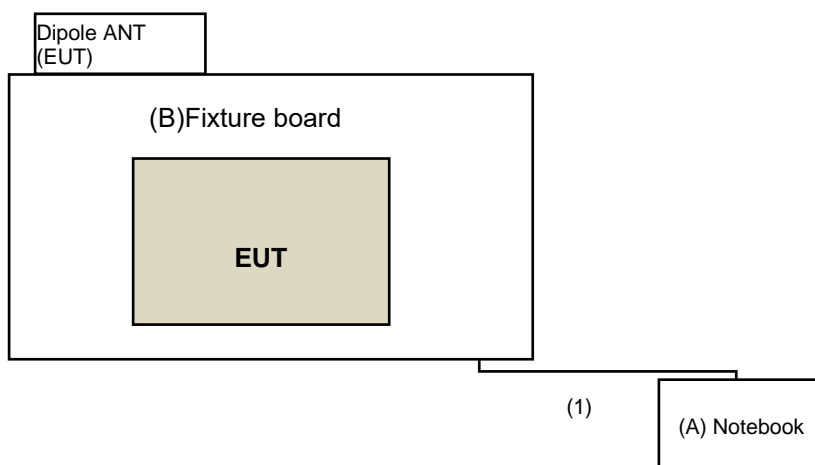
Mode A



Under Table

Remote Site

Mode B



Under Table

Remote Site

3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Notebook	Lenovo	L440	R9-0GFJJK	N/A	Provided by Lab
B	Jig	N/A	N/A	N/A	N/A	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	Micro USB cable	1	1	NO	0	Supplied by applicant

4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
USB Wideband Power Sensor KEYSIGHT	U2021XA	MY55050005/MY55190004/MY55190007/MY55210005	2022/7/13	2023/7/12

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/5/5

4.2 Power Spectral Density

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Signal and spectrum analyzer R&S	FSV3044	101105	2023/2/22	2024/2/21
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/5/5

4.3 6 dB Bandwidth

Refer to section 4.2 to get information of the instruments.

4.4 Conducted Out of Band Emissions

Refer to section 4.2 to get information of the instruments.

4.5 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
DC-LISN SCHWARZBECK MESS- ELETRONIK	NNBM 8126G	8126G-069	2022/11/9	2023/11/8
LISN R&S	ESH2-Z5	100100	2023/3/7	2024/3/6
	ESH3-Z5	100116	2023/2/15	2024/2/14
LISN Schwarzbeck	NNLK 8121	8121-731	2022/5/26	2023/5/25
RF Coaxial Cable WORKEN	5D-FB	Cable-cond2-01	2022/9/3	2023/9/2
Software BVADT	BVADT_Cond_ V7.3.7.4	N/A	N/A	N/A
Test Receiver R&S	ESR3	102783	2022/12/21	2023/12/20
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2022/8/31	2023/8/30

Notes:

1. The test was performed in HY - Conduction 2.
2. Tested Date: 2023/4/22

4.6 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
Bi-log Broadband Antenna Schwarzbeck	VULB9168	9168-1213	2022/10/20	2023/10/19
Loop Antenna EMCI	EM-6879	269	2022/9/19	2023/9/18
Loop Antenna TESEQ	HLA 6121	45745	2022/7/27	2023/7/26
Pre-amplifier EMCI	EMC001340	980201	2022/9/23	2023/9/22
Pre_Amplifier EMCI	EMC330N	980782	2023/1/16	2024/1/15
RF Coaxial Cable EMCI	5D-NM-BM	140903+140902	2023/1/7	2024/1/6
	EMCCFD400-NM-NM- 500	201233	2023/1/16	2024/1/15
	EMCCFD400-NM-NM- 3000	201235	2023/1/16	2024/1/15
	EMCCFD400-NM-NM- 9000	201236(with PAD)	2023/1/16	2024/1/15
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Spectrum Analyzer R&S	FSW43	101866	2023/1/10	2024/1/9
Test Receiver R&S	ESR3+	102782	2022/12/12	2023/12/11
Turn Table Max-Full	MF-7802BS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208674	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 8.
2. Tested Date: 2023/4/22

4.7 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
Horn Antenna RFSPIN	DRH18-E	210103A18E	2022/11/13	2023/11/12
Horn Antenna Schwarzbeck	BBHA 9170	9170-1049	2022/11/13	2023/11/12
Pre_Amplifier EMCI	EMC118A45SE	980808	2022/12/29	2023/12/28
	EMC184045SE	980788	2023/1/16	2024/1/15
RF Coaxial Cable EMCI	EMC101G-KM-KM-2000	201254	2023/1/16	2024/1/15
	EMC101G-KM-KM-3000	201257	2023/1/16	2024/1/15
	EMC101G-KM-KM-5000	201260	2023/1/16	2024/1/15
	EMC104-SM-SM-1000	210102	2023/1/16	2024/1/15
	EMC104-SM-SM-3000	201231	2023/1/16	2024/1/15
	EMC104-SM-SM-9000	201243	2023/1/16	2024/1/15
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Spectrum Analyzer R&S	FSW43	101866	2023/1/10	2024/1/9
Test Receiver R&S	ESR3+	102782	2022/12/12	2023/12/11
Turn Table Max-Full	MF-7802BS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208674	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 8.
2. Tested Date: 2023/4/17 ~ 2023/4/21

5 Limits of Test Items

5.1 RF Output Power

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30 dBm)

5.2 Power Spectral Density

The Maximum of Power Spectral Density Measurement is 8 dBm in any 3 kHz.

5.3 6 dB Bandwidth

The minimum of 6 dB Bandwidth Measurement is 0.5 MHz.

5.4 Conducted Out of Band Emissions

Below 20 dB of the highest emission level of operating band (in 100 kHz Resolution Bandwidth).

5.5 AC Power Conducted Emissions

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Notes:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

5.6 Unwanted Emissions below 1 GHz

Radiated emissions up to 1 GHz which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20 dB below the highest level of the desired power:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
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

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

5.7 Unwanted Emissions above 1 GHz

Radiated emissions above 1 GHz which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20 dB below the highest level of the desired power:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
Above 960	500	3

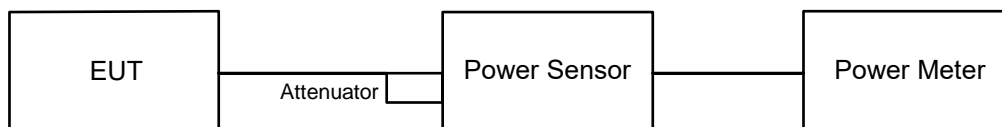
Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

6 Test Arrangements

6.1 RF Output Power

6.1.1 Test Setup



6.1.2 Test Procedure

Peak Power:

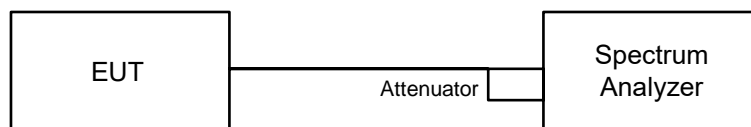
A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

Average Power:

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

6.2 Power Spectral Density

6.2.1 Test Setup

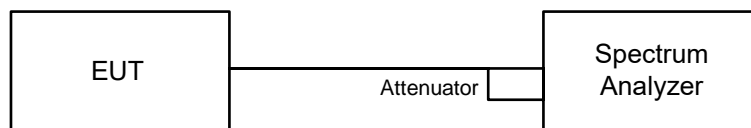


6.2.2 Test Procedure

- a. Set analyzer center frequency to DTS channel center frequency.
- b. Set the span to 1.5 times the DTS bandwidth.
- c. Set the RBW to: 3 kHz.
- d. Set the VBW $\geq 3 \times$ RBW.
- e. Detector = peak.
- f. Sweep time = auto couple.
- g. Trace mode = max hold.
- h. Allow trace to fully stabilize.
- i. Use the peak marker function to determine the maximum amplitude level within the RBW.

6.3 6 dB Bandwidth

6.3.1 Test Setup

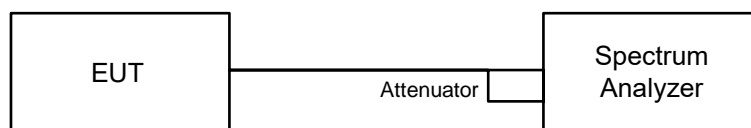


6.3.2 Test Procedure

- Set resolution bandwidth (RBW) = 100 kHz.
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.4 Conducted Out of Band Emissions

6.4.1 Test Setup



6.4.2 Test Procedure

MEASUREMENT PROCEDURE REF

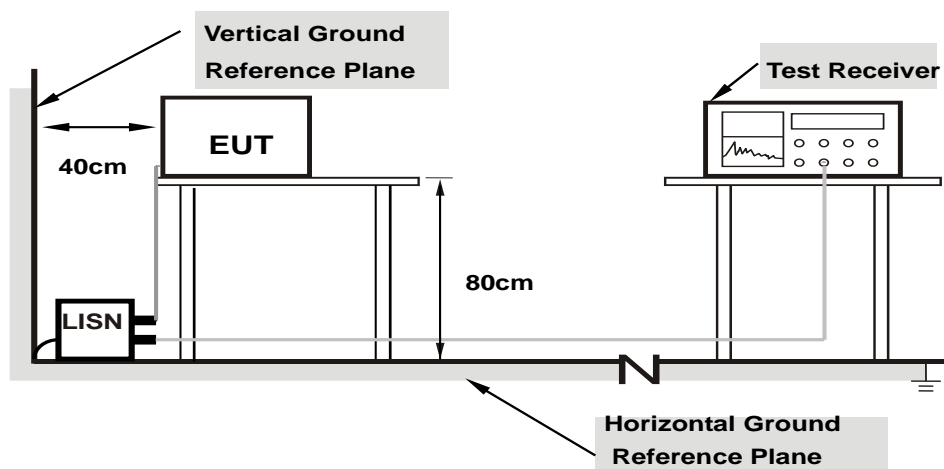
- Set the RBW = 100 kHz.
- Set the VBW ≥ 300 kHz.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOB

- Set RBW = 100 kHz.
- Set VBW ≥ 300 kHz.
- Detector = peak.
- Sweep = auto couple.
- Trace Mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

6.5 AC Power Conducted Emissions

6.5.1 Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.5.2 Test Procedure

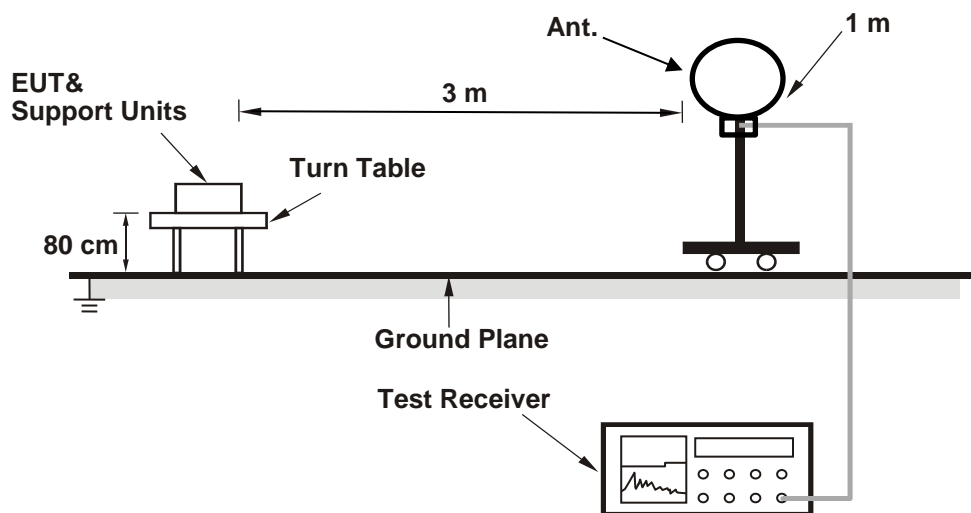
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz-30 MHz.

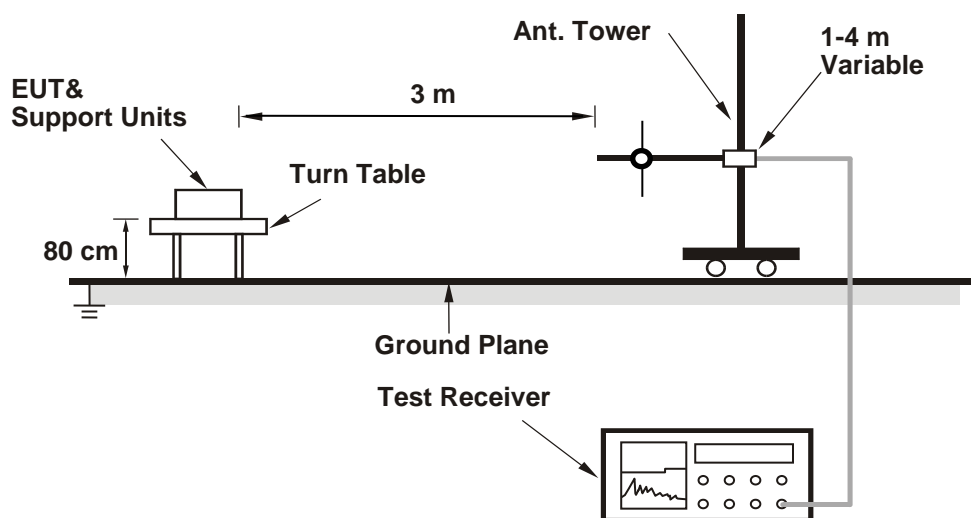
6.6 Unwanted Emissions below 1 GHz

6.6.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.6.2 Test Procedure

For Radiated emission below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode, except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency (150 kHz to 30 MHz).
3. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated emission above 30 MHz

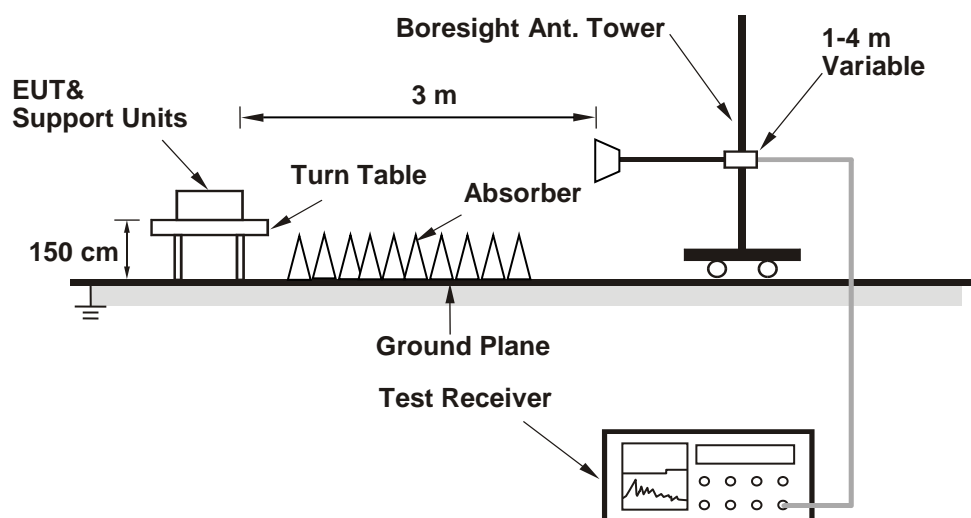
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

6.7 Unwanted Emissions above 1 GHz

6.7.1 Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.7.2 Test Procedure

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Notes:

- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) and Average detection (AV) at frequency above 1 GHz.
- For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10 Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1 GHz.
- All modes of operation were investigated and the worst-case emissions are reported.

7 Test Results of Test Item

7.1 RF Output Power

Input Power:	3 Vdc	Environmental Conditions:	26°C, 63% RH	Tested By:	Tim-Chen
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For Peak Power

1MBaud PHY with Channel Sounding

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
2	2404	10.257	10.11	30	Pass
3	2405	10.209	10.09	30	Pass
38	2440	9.705	9.87	30	Pass
75	2477	9.141	9.61	30	Pass
76	2478	9.078	9.58	30	Pass

Note: The antenna gain is 2.8 dBi < 6 dBi, so the output power limit shall not be reduced.

1MBaud PHY with 125kbps

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
0	2402	10.28	10.12	30	Pass
1	2404	10.209	10.09	30	Pass
19	2440	9.683	9.86	30	Pass
38	2478	9.057	9.57	30	Pass
39	2480	9.099	9.59	30	Pass

Note: The antenna gain is 2.8 dBi < 6 dBi, so the output power limit shall not be reduced.

1MBaud PHY with 500kbps

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
0	2402	10.328	10.14	30	Pass
1	2404	10.28	10.12	30	Pass
19	2440	9.75	9.89	30	Pass
38	2478	9.247	9.66	30	Pass
39	2480	9.162	9.62	30	Pass

Note: The antenna gain is 2.8 dBi < 6 dBi, so the output power limit shall not be reduced.

1MBaud PHY with 1Mbps

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
0	2402	10.375	10.16	30	Pass
1	2404	10.257	10.11	30	Pass
19	2440	9.661	9.85	30	Pass
38	2478	9.12	9.60	30	Pass
39	2480	8.974	9.53	30	Pass

Note: The antenna gain is 2.8 dBi < 6 dBi, so the output power limit shall not be reduced.

2MBaud PHY

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
1	2404	10.257	10.11	30	Pass
19	2440	9.705	9.87	30	Pass
38	2478	9.099	9.59	30	Pass

Note: The antenna gain is 2.8 dBi < 6 dBi, so the output power limit shall not be reduced.

For Average Power

1MBaud PHY with Channel Sounding

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
2	2404	10.069	10.03
3	2405	10.023	10.01
38	2440	9.528	9.79
75	2477	8.954	9.52
76	2478	8.933	9.51

1MBaud PHY with 125kbps

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
0	2402	10.139	10.06
1	2404	10.116	10.05
19	2440	9.572	9.81
38	2478	8.995	9.54
39	2480	8.954	9.52

1MBaud PHY with 500kbps

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
0	2402	10.186	10.08
1	2404	10.139	10.06
19	2440	9.594	9.82
38	2478	9.016	9.55
39	2480	8.974	9.53

1MBaud PHY with 1Mbps

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
0	2402	10.139	10.06
1	2404	10.116	10.05
19	2440	9.572	9.81
38	2478	8.995	9.54
39	2480	8.954	9.52

2MBaud PHY

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2404	10.116	10.05
19	2440	9.572	9.81
38	2478	8.995	9.54

7.2 Power Spectral Density

Input Power:	3 Vdc	Environmental Conditions:	26°C, 63% RH	Tested By:	Tim-Chen
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1MBaud PHY with Channel Sounding

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
2	2404	-0.92	8	Pass
3	2405	-0.98	8	Pass
38	2440	-1.24	8	Pass
75	2477	-1.62	8	Pass
76	2478	-1.64	8	Pass

Note: The antenna gain is 2.8 dBi < 6 dBi, so the power density limit shall not be reduced.

1MBaud PHY with 125kbps

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
0	2402	4.33	8	Pass
1	2404	4.29	8	Pass
19	2440	4.01	8	Pass
38	2478	3.62	8	Pass
39	2480	3.65	8	Pass

Note: The antenna gain is 2.8 dBi < 6 dBi, so the power density limit shall not be reduced.

1MBaud PHY with 500kbps

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
0	2402	-7.72	8	Pass
1	2404	-7.73	8	Pass
19	2440	-7.84	8	Pass
38	2478	-8.37	8	Pass
39	2480	-8.39	8	Pass

Note: The antenna gain is 2.8 dBi < 6 dBi, so the power density limit shall not be reduced.

1MBaud PHY with 1Mbps

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
0	2402	-7.57	8	Pass
1	2404	6.23	8	Pass
19	2440	5.96	8	Pass
38	2478	5.58	8	Pass
39	2480	-8.13	8	Pass

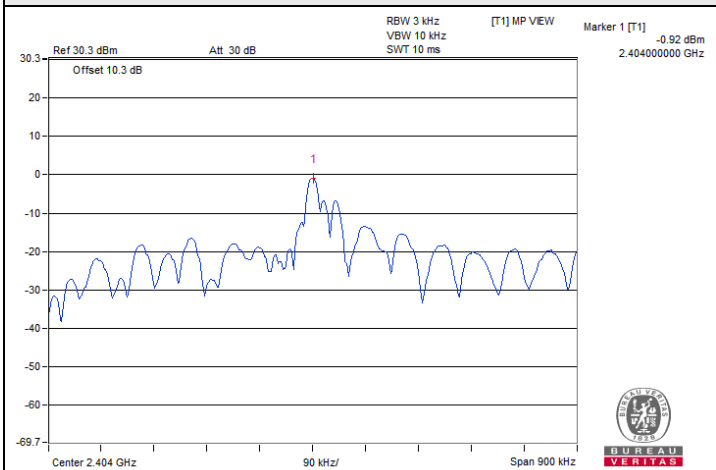
Note: The antenna gain is 2.8 dBi < 6 dBi, so the power density limit shall not be reduced.

2MBaud PHY

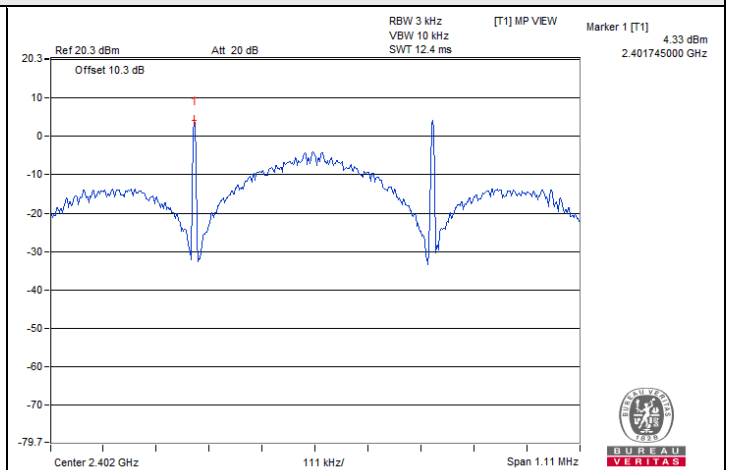
Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2404	6.21	8	Pass
19	2440	5.93	8	Pass
38	2478	5.56	8	Pass

Note: The antenna gain is 2.8 dBi < 6 dBi, so the power density limit shall not be reduced.

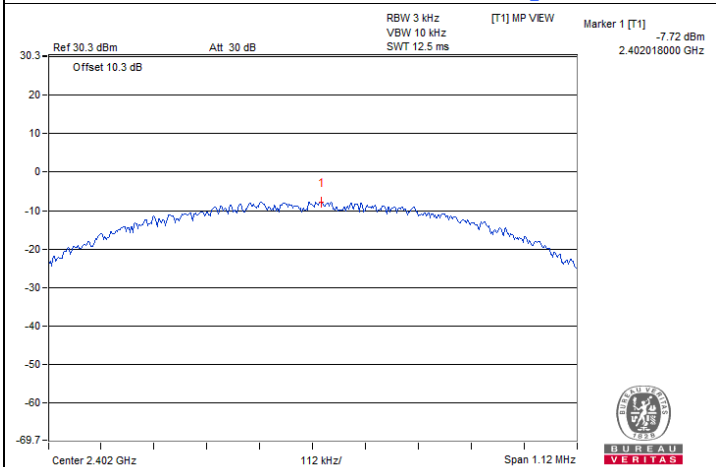
Spectrum Plot of Maximum Value



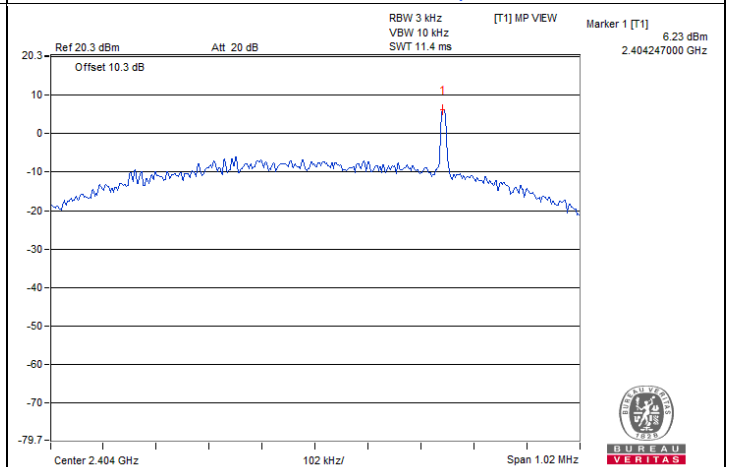
1MBaud PHY with Channel Sounding : CH 2



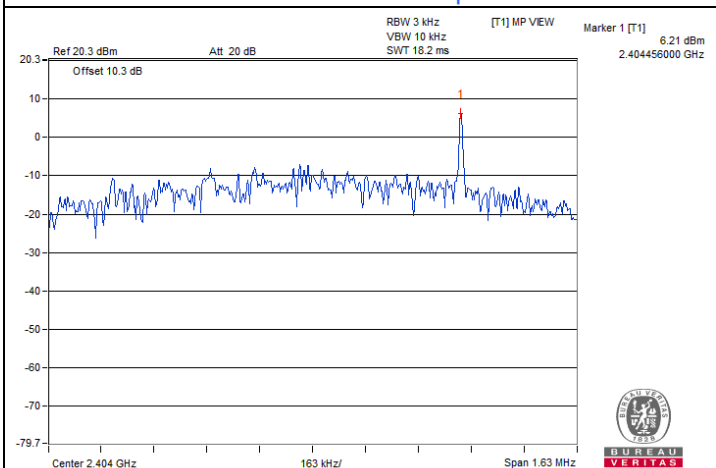
1MBaud PHY with 125kbps : CH 0



1MBaud PHY with 500kbps : CH 0



1MBaud PHY with 1Mbps : CH 1



2MBaud PHY : CH 1

7.3 6 dB Bandwidth

Input Power:	3 Vdc	Environmental Conditions:	26°C, 63% RH	Tested By:	Tim-Chen
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1MBaud PHY with Channel Sounding

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
2	2404	0.6	0.5	Pass
3	2405	0.6	0.5	Pass
38	2440	0.6	0.5	Pass
75	2477	0.6	0.5	Pass
76	2478	0.6	0.5	Pass

1MBaud PHY with 125kbps

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
0	2402	0.74	0.5	Pass
1	2404	0.62	0.5	Pass
19	2440	0.62	0.5	Pass
38	2478	0.62	0.5	Pass
39	2480	0.74	0.5	Pass

1MBaud PHY with 500kbps

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
0	2402	0.75	0.5	Pass
1	2404	0.74	0.5	Pass
19	2440	0.74	0.5	Pass
38	2478	0.74	0.5	Pass
39	2480	0.74	0.5	Pass

1MBaud PHY with 1Mbps

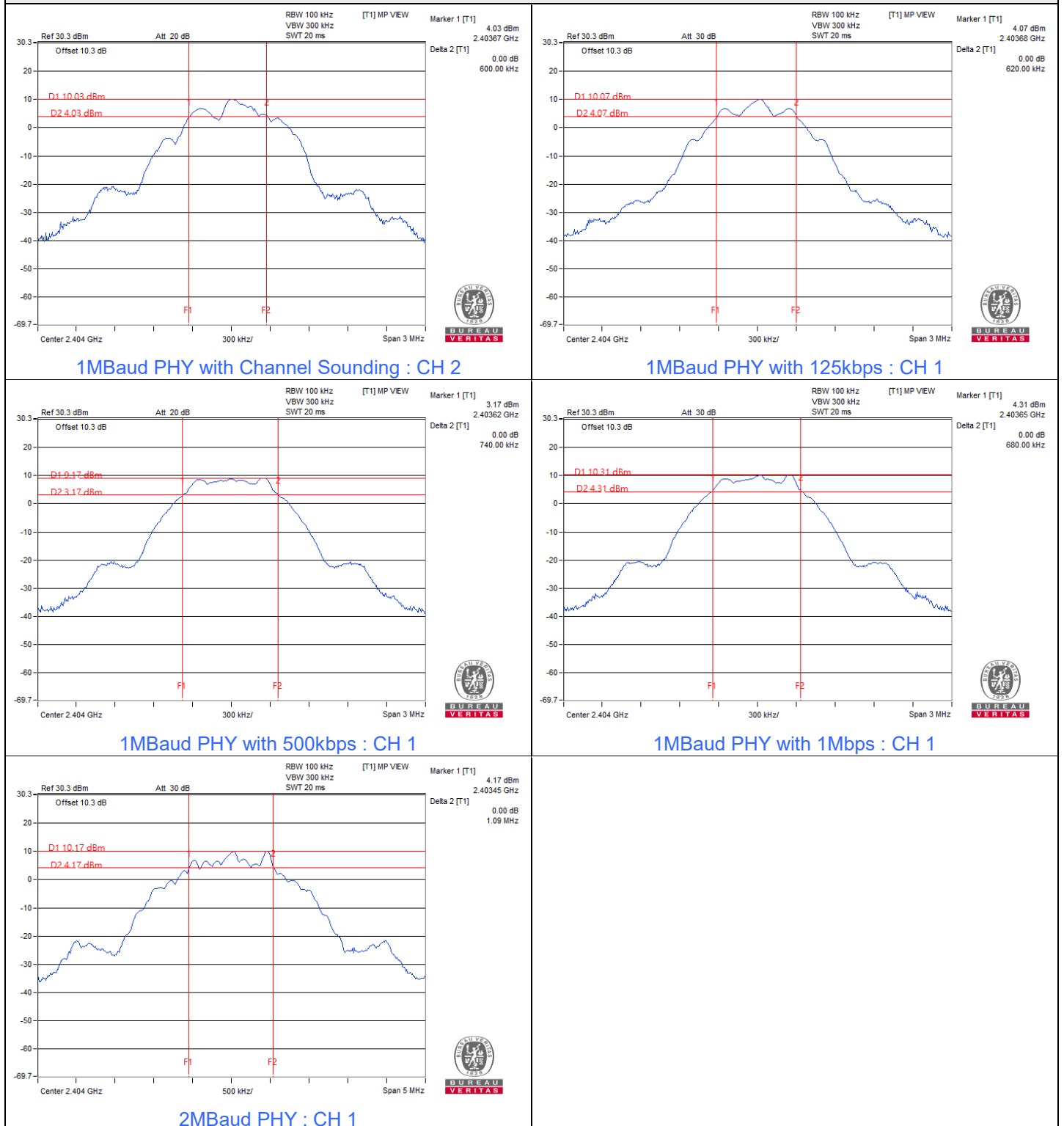
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
0	2402	0.74	0.5	Pass
1	2404	0.68	0.5	Pass
19	2440	0.68	0.5	Pass
38	2478	0.69	0.5	Pass
39	2480	0.74	0.5	Pass



2MBaud PHY

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2404	1.09	0.5	Pass
19	2440	1.09	0.5	Pass
38	2478	1.09	0.5	Pass

Spectrum Plot of Minimum Value



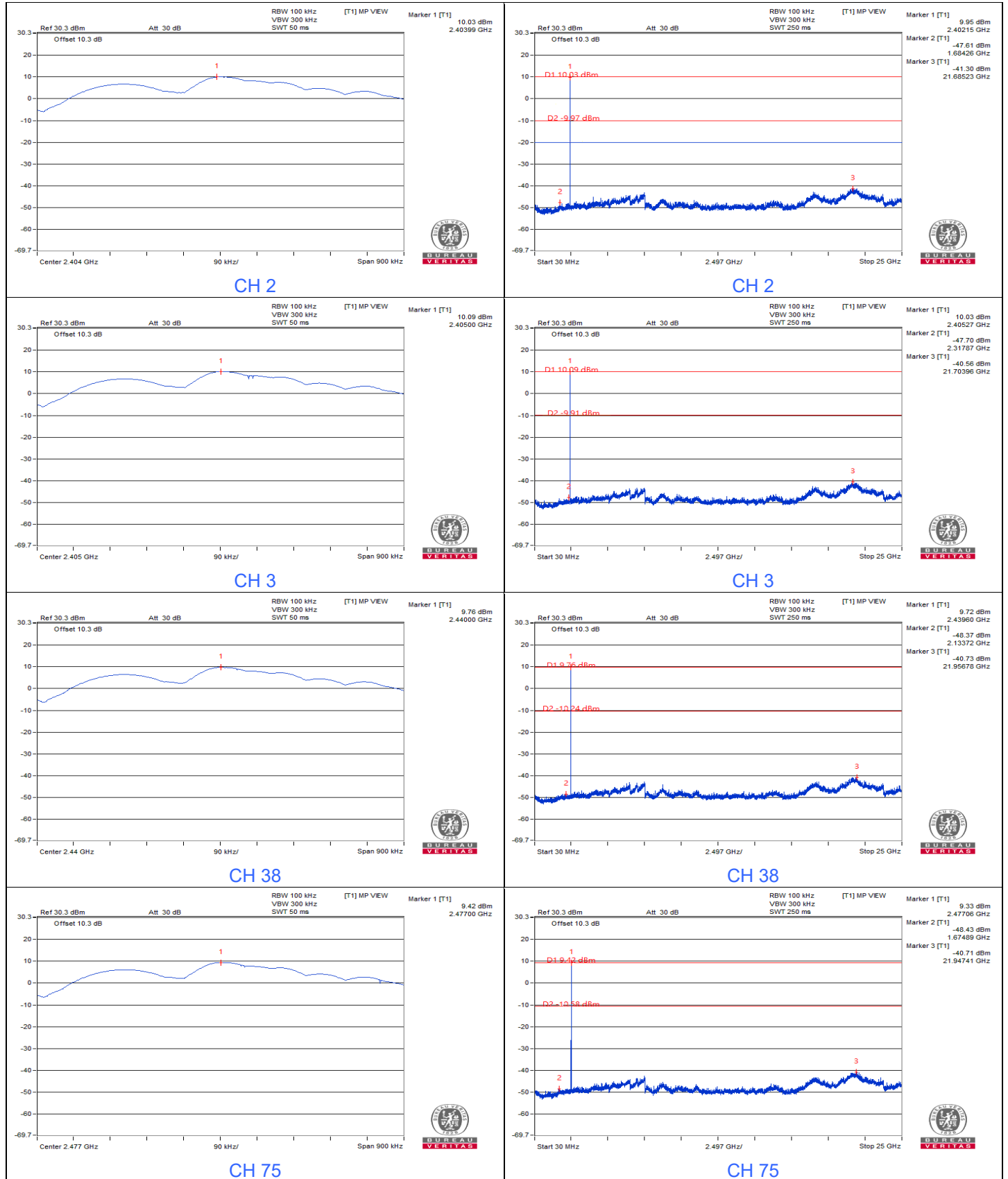


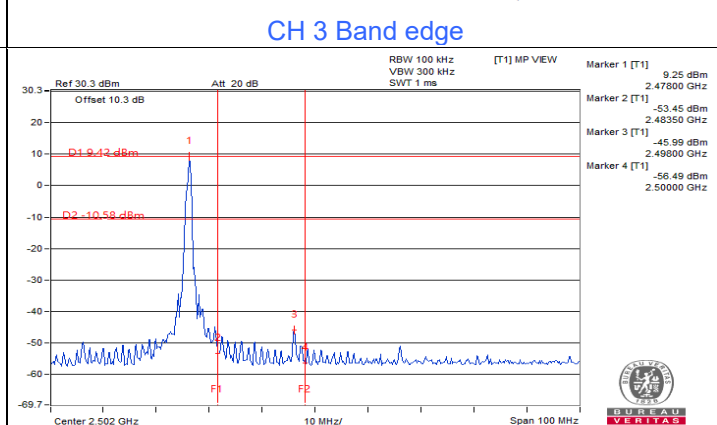
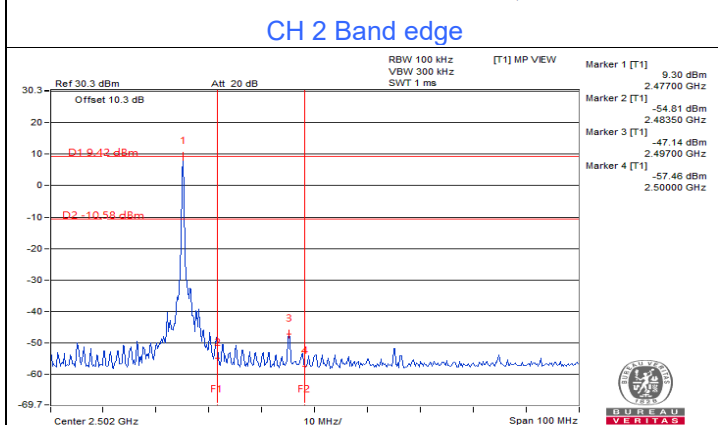
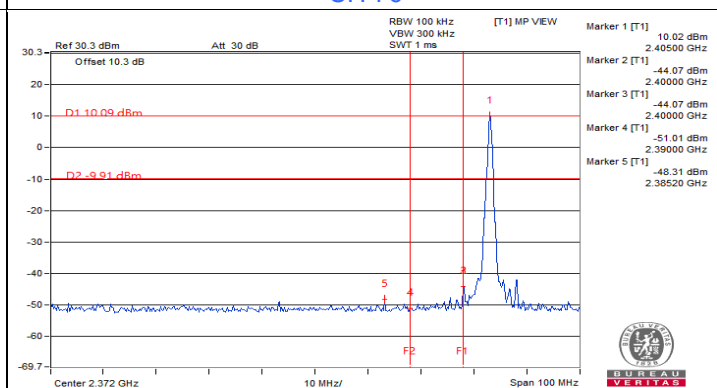
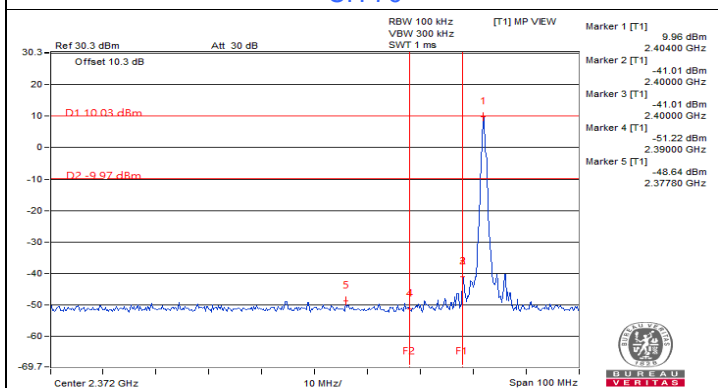
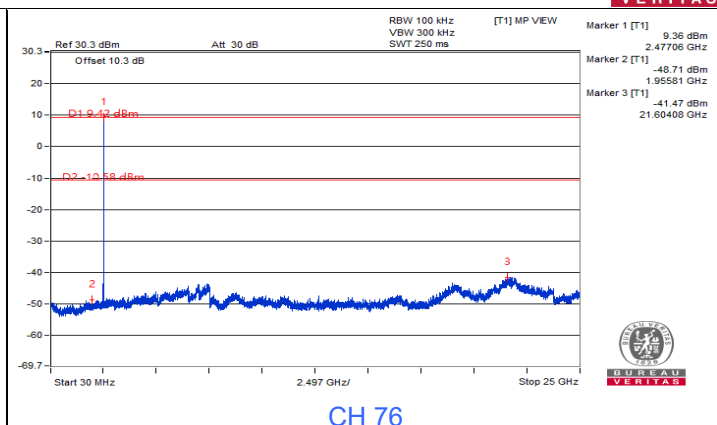
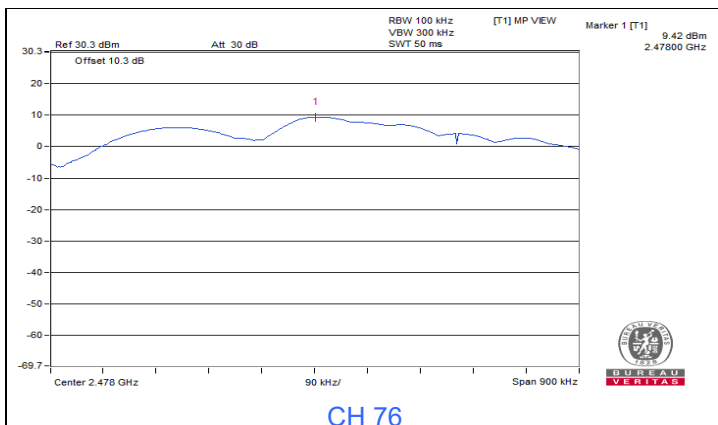
BUREAU VERITAS

7.4 Conducted Out of Band Emissions

Input Power:	3 Vdc	Environmental Conditions:	26°C, 63% RH	Tested By:	Tim-Chen
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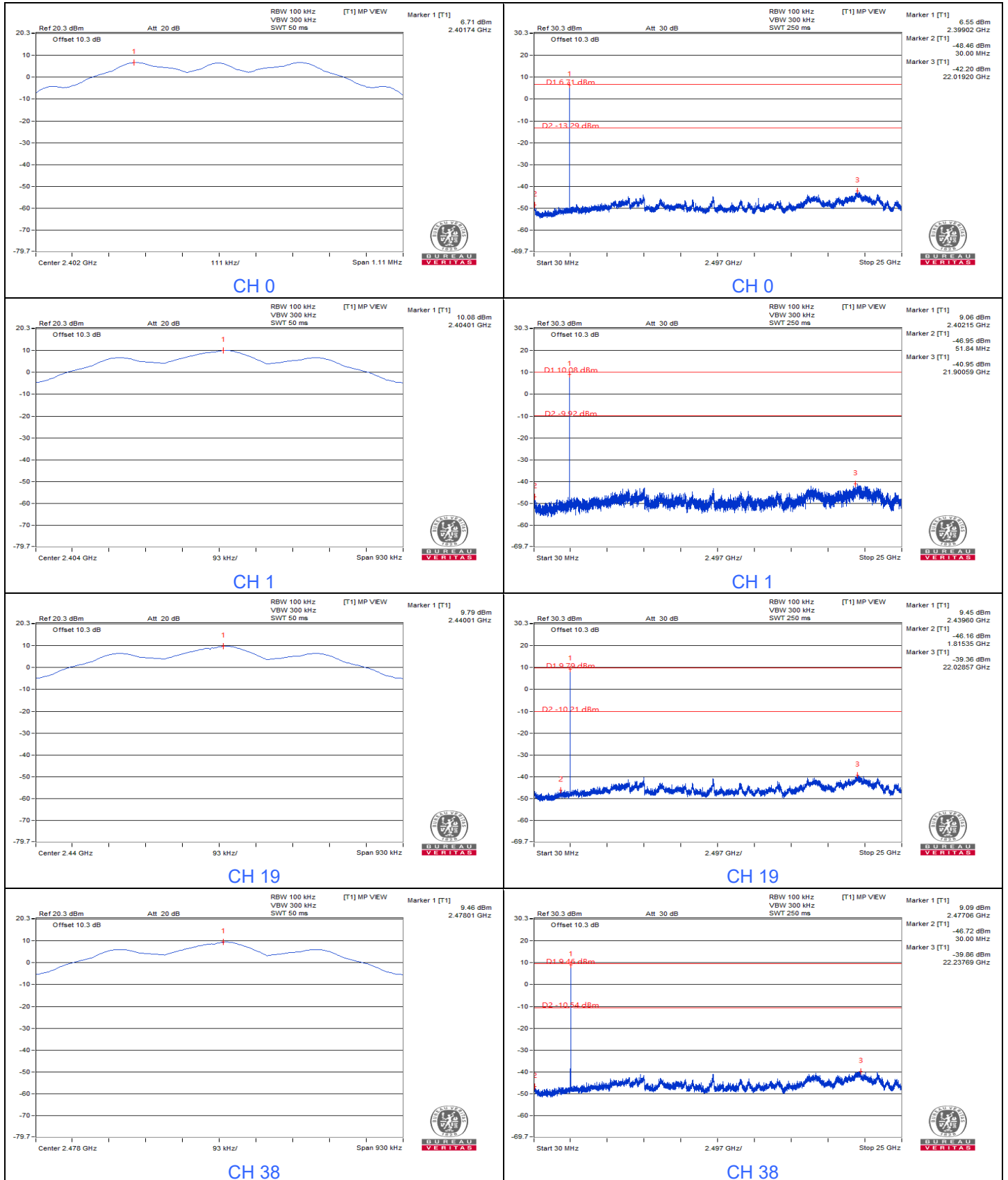
1Mbaud PHY with Channel Sounding

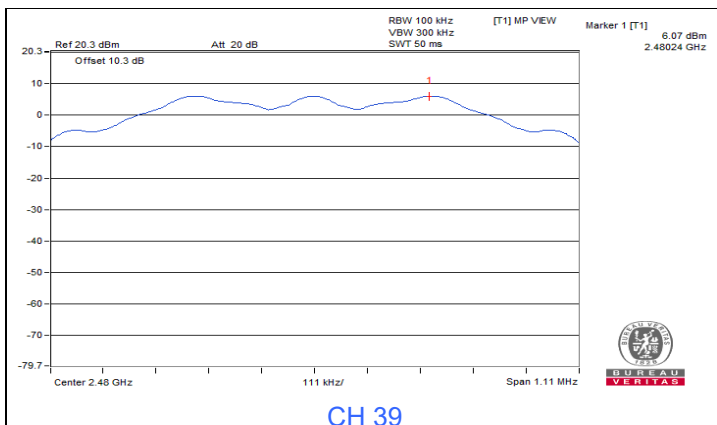




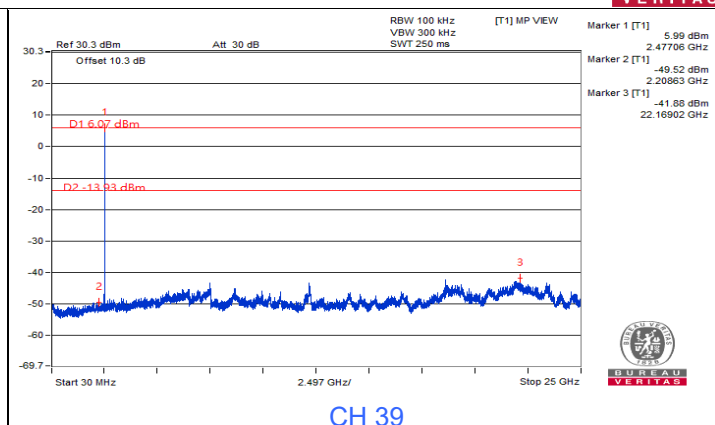


1MBaud PHY with 125kbps

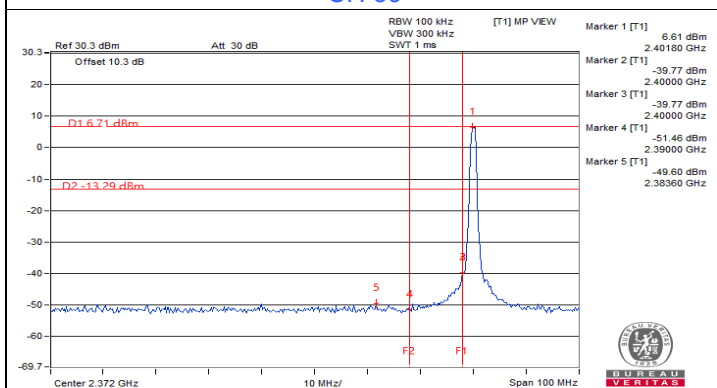




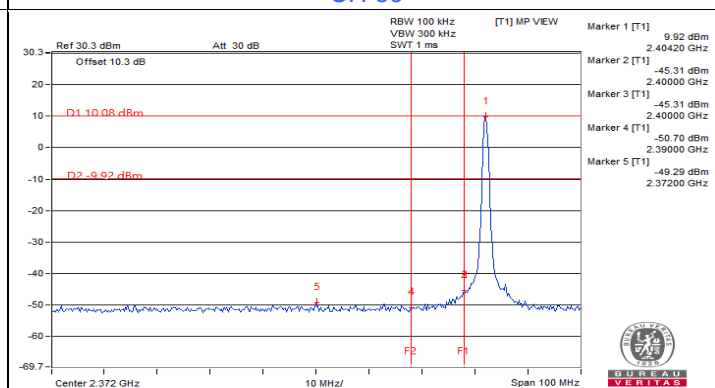
CH 39



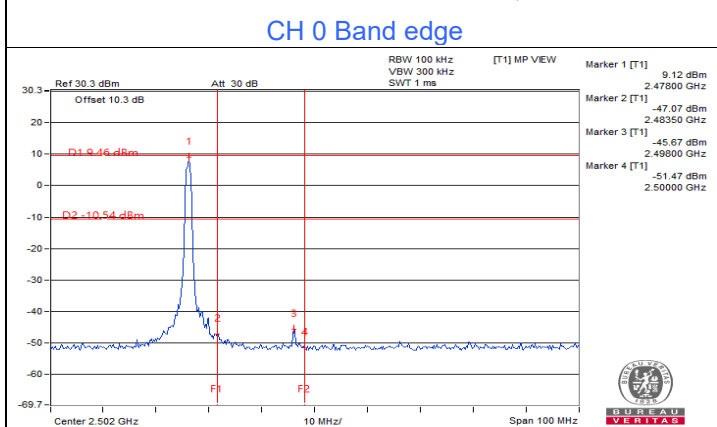
CH 39



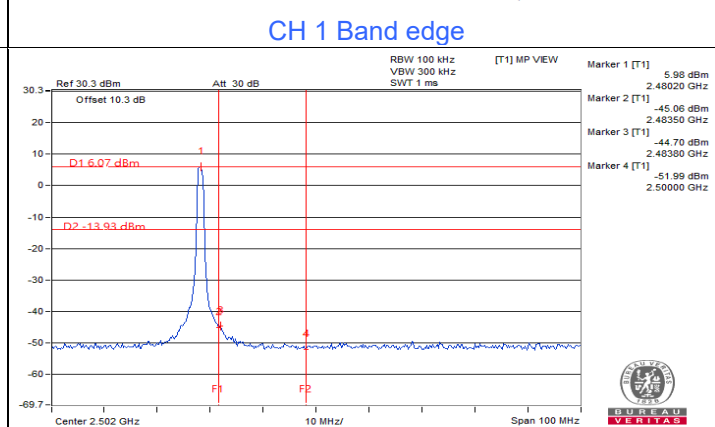
CH 0 Band edge



CH 1 Band edge



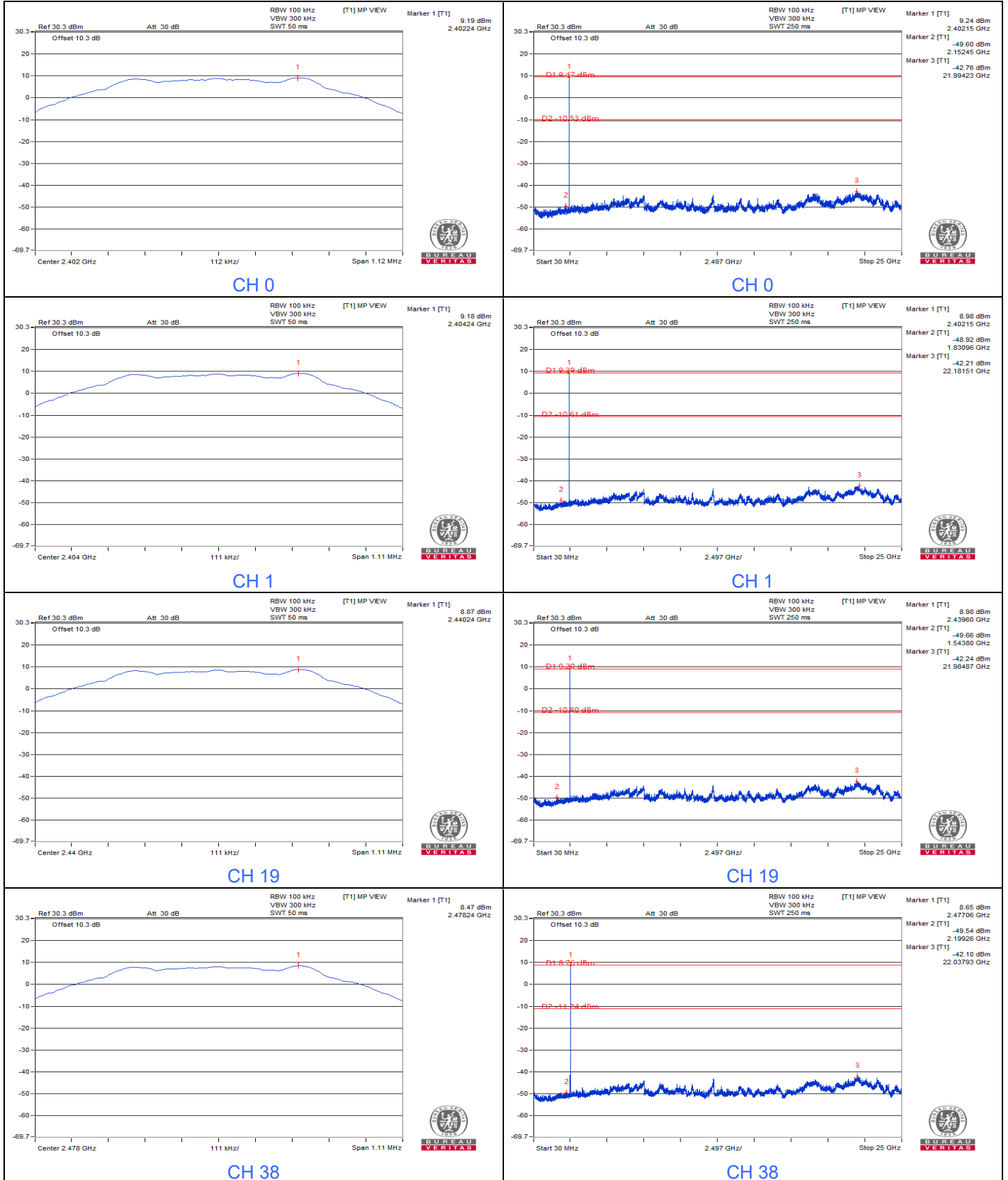
CH 38 Band edge

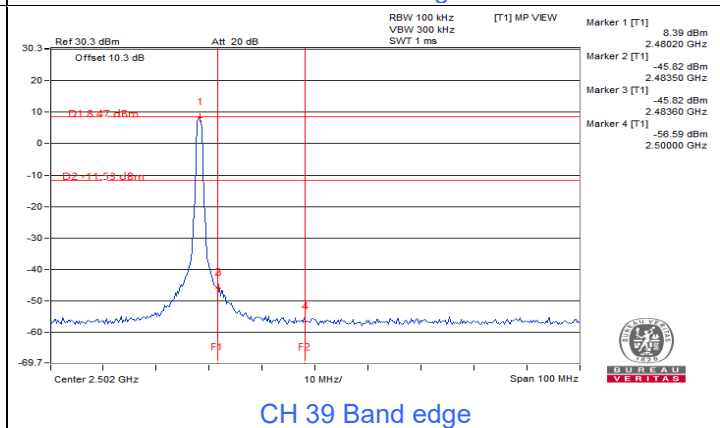
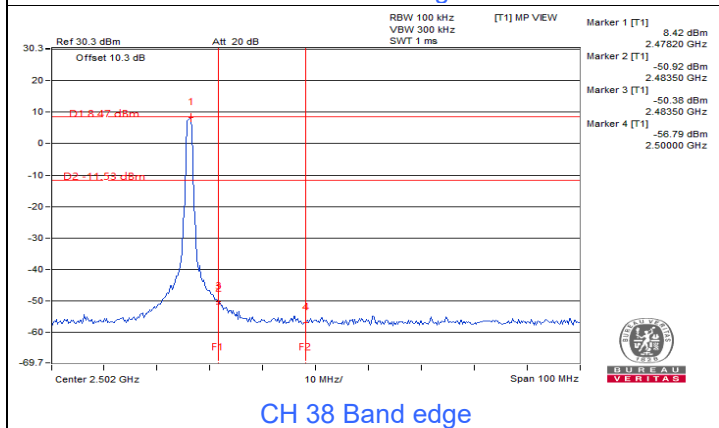
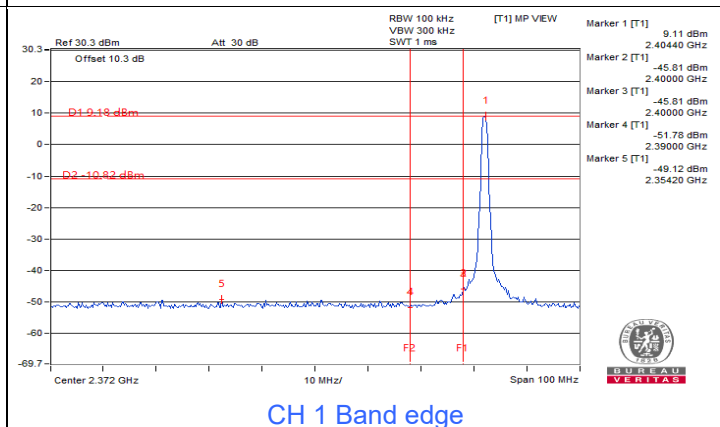
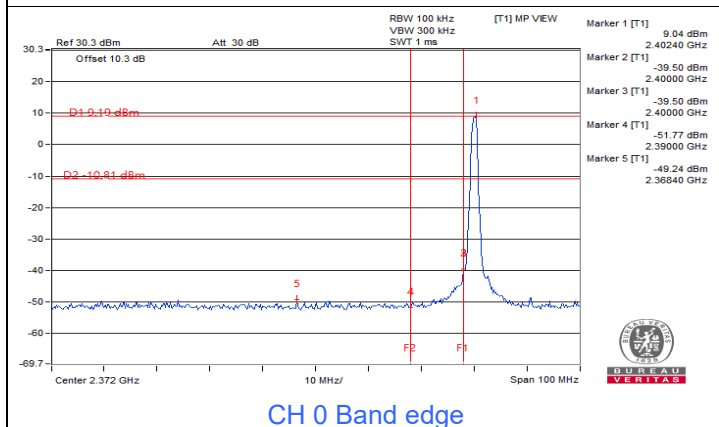
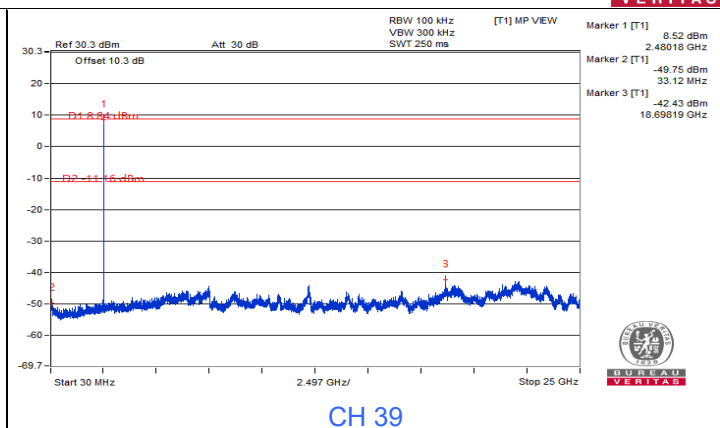
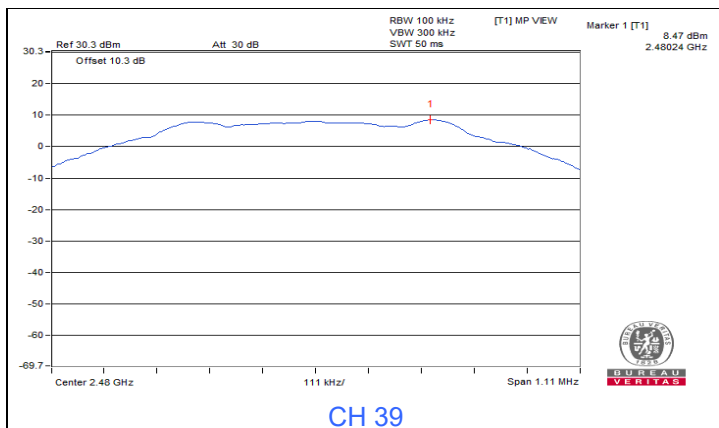


CH 39 Band edge



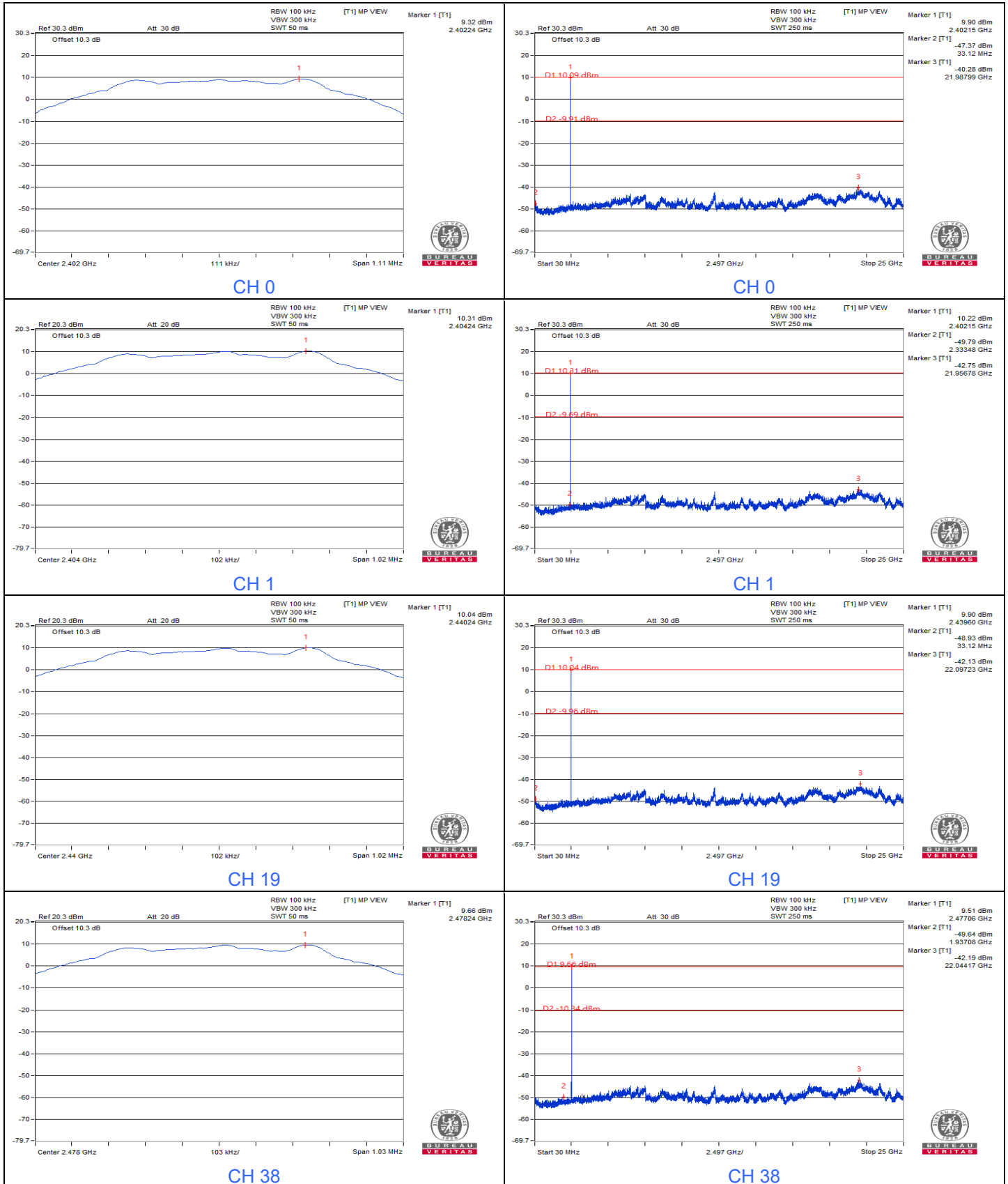
1MBaud PHY with 500kbps

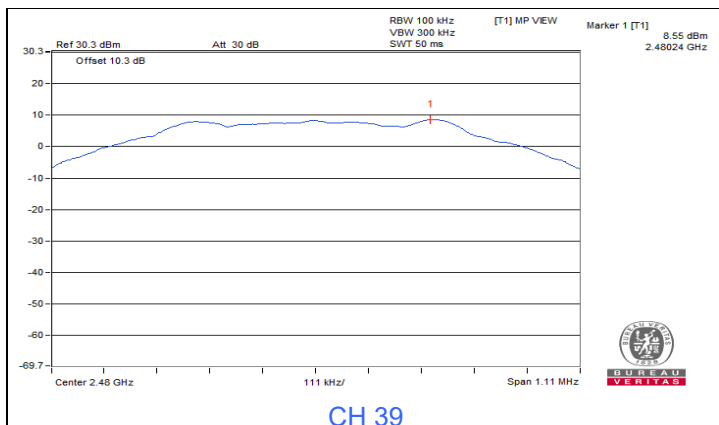




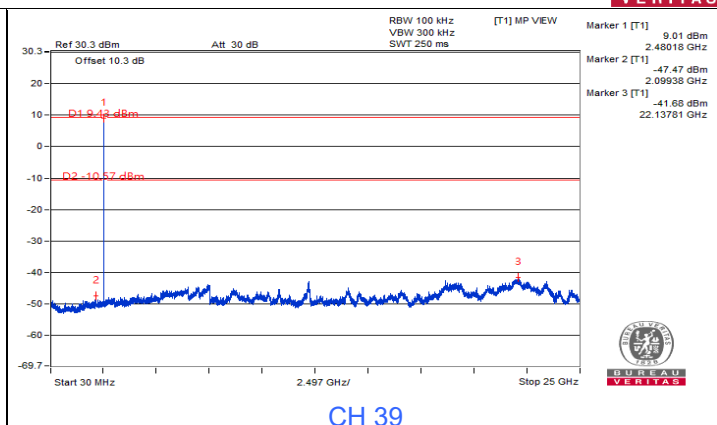


1MBaud PHY with 1Mbps

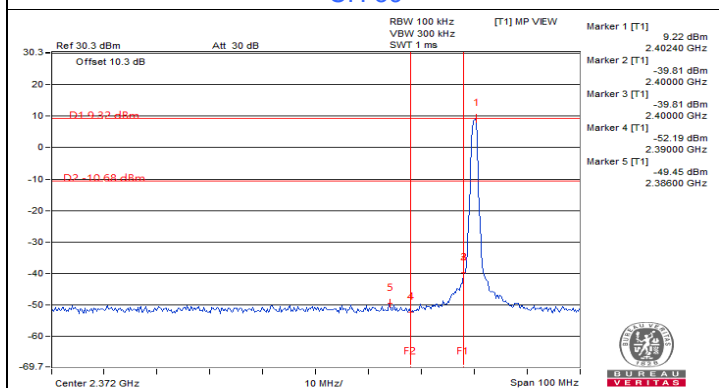




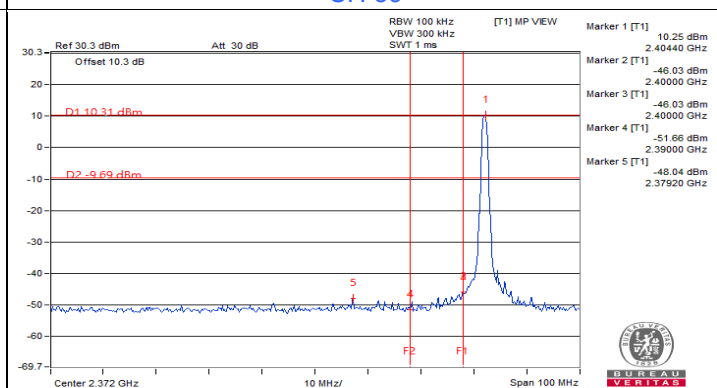
CH 39



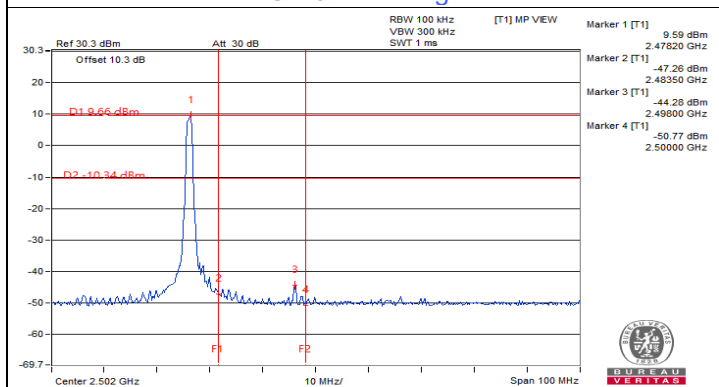
CH 39



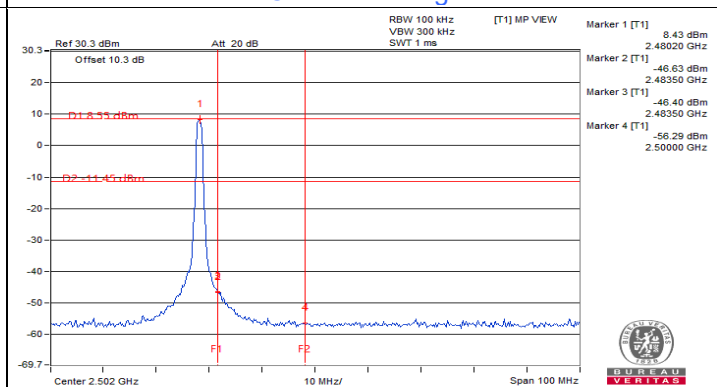
CH 0 Band edge



CH 1 Band edge



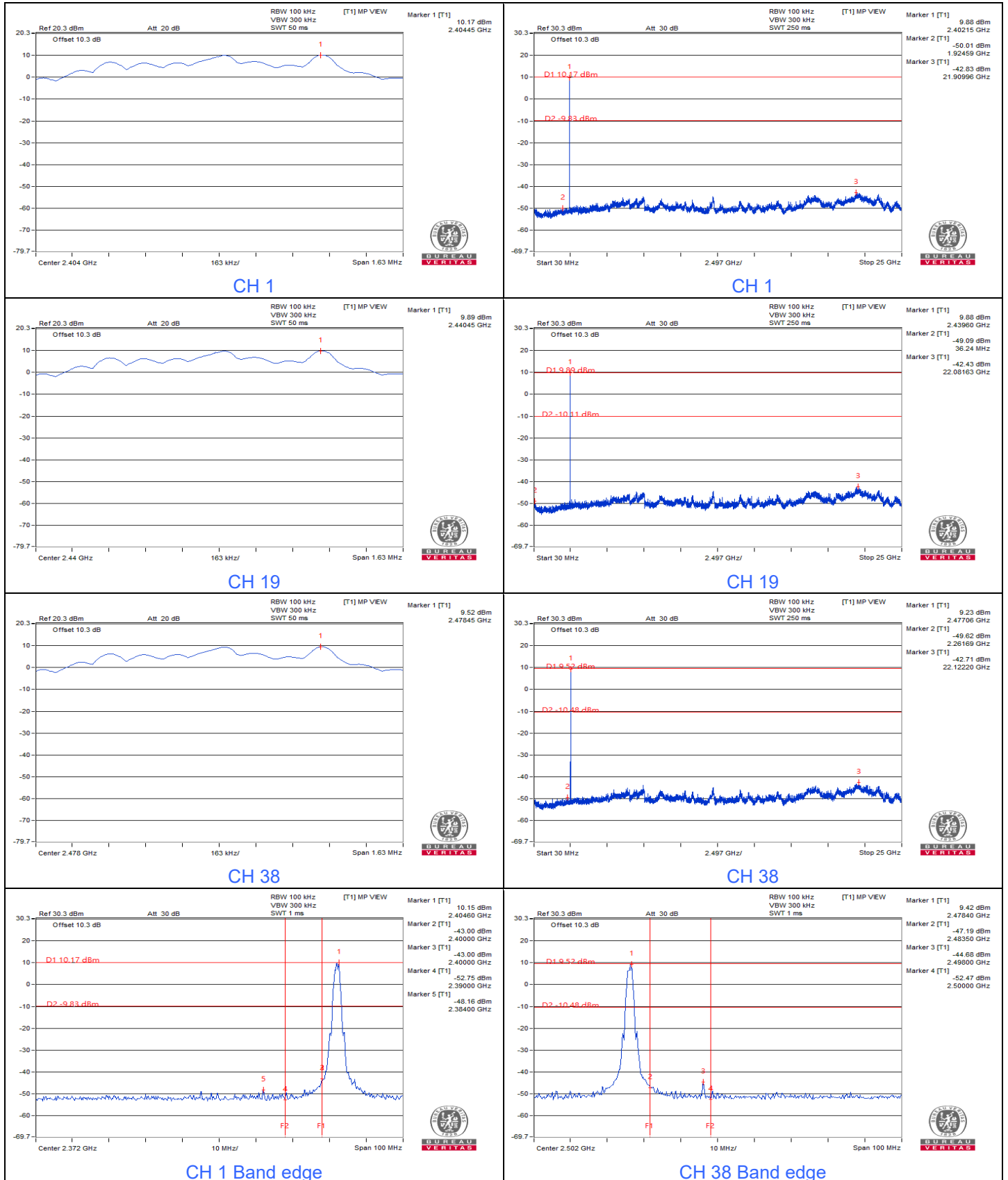
CH 38 Band edge



CH 39 Band edge



2MBaud PHY



7.5 AC Power Conducted Emissions

Mode A

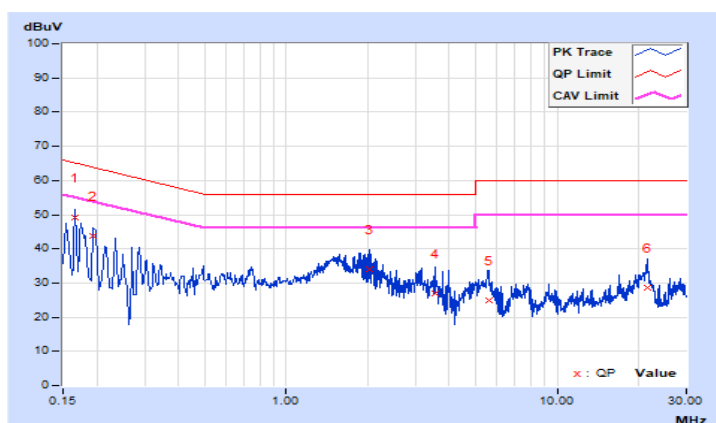
RF Mode	TX 1MBaud PHY with Channel Sounding	Channel	CH 2 : 2404 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Edison Lee		

Phase Of Power : Line (L)

No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16600	10.09	39.08	22.01	49.17	32.10	65.16	55.16	-15.99	-23.06
2	0.19400	10.10	33.68	17.90	43.78	28.00	63.86	53.86	-20.08	-25.86
3	2.03800	10.16	23.77	14.29	33.93	24.45	56.00	46.00	-22.07	-21.55
4	3.53800	10.21	16.60	8.20	26.81	18.41	56.00	46.00	-29.19	-27.59
5	5.58200	10.29	14.75	7.73	25.04	18.02	60.00	50.00	-34.96	-31.98
6	21.49800	10.97	17.74	10.30	28.71	21.27	60.00	50.00	-31.29	-28.73

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

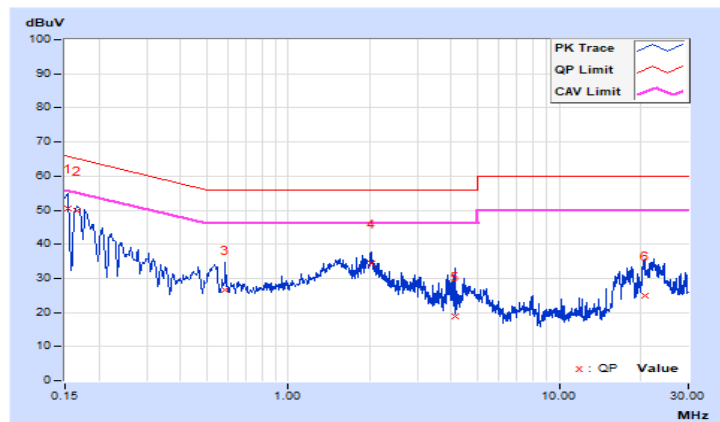


RF Mode	TX 1MBaud PHY with Channel Sounding	Channel	CH 2 : 2404 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Edison Lee		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15400	10.07	40.49	20.45	50.56	30.52	65.78	55.78	-15.22	-25.26
2	0.16600	10.08	39.87	22.39	49.95	32.47	65.16	55.16	-15.21	-22.69
3	0.58600	10.09	16.38	8.12	26.47	18.21	56.00	46.00	-29.53	-27.79
4	2.01800	10.14	24.10	13.22	34.24	23.36	56.00	46.00	-21.76	-22.64
5	4.11800	10.19	8.62	2.20	18.81	12.39	56.00	46.00	-37.19	-33.61
6	20.68600	10.63	14.28	6.47	24.91	17.10	60.00	50.00	-35.09	-32.90

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

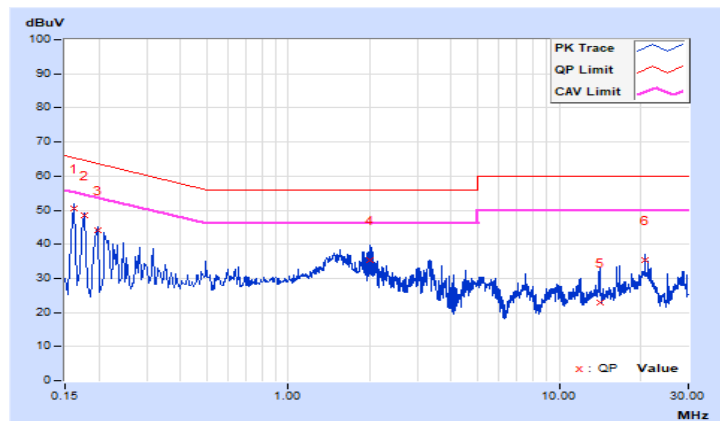


RF Mode	TX 1MBaud PHY with 1Mbps	Channel	CH 0 : 2402 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Edison Lee		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16200	10.08	40.43	22.34	50.51	32.42	65.36	55.36	-14.85	-22.94
2	0.17800	10.09	38.42	22.93	48.51	33.02	64.58	54.58	-16.07	-21.56
3	0.19780	10.10	33.89	17.36	43.99	27.46	63.70	53.70	-19.71	-26.24
4	2.01400	10.16	25.12	15.75	35.28	25.91	56.00	46.00	-20.72	-20.09
5	14.09800	10.66	12.13	5.26	22.79	15.92	60.00	50.00	-37.21	-34.08
6	20.74200	10.96	24.33	16.98	35.29	27.94	60.00	50.00	-24.71	-22.06

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

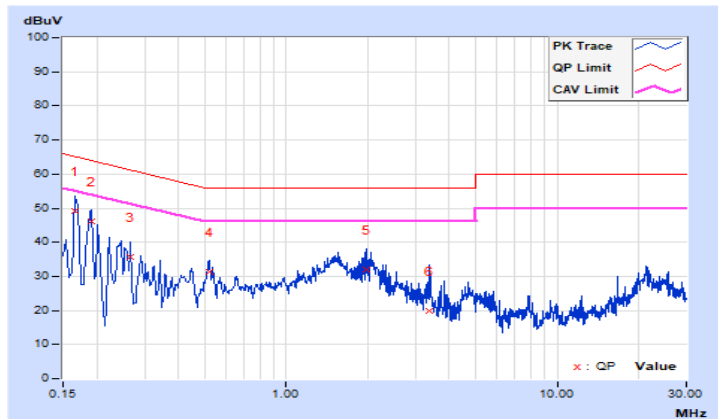


RF Mode	TX 1MBaud PHY with 1Mbps	Channel	CH 0 : 2402 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Edison Lee		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16600	10.08	39.05	22.39	49.13	32.47	65.16	55.16	-16.03	-22.69
2	0.19000	10.09	36.08	16.18	46.17	26.27	64.04	54.04	-17.87	-27.77
3	0.26600	10.09	25.51	11.77	35.60	21.86	61.24	51.24	-25.64	-29.38
4	0.52200	10.09	21.13	13.60	31.22	23.69	56.00	46.00	-24.78	-22.31
5	1.97400	10.14	21.72	11.61	31.86	21.75	56.00	46.00	-24.14	-24.25
6	3.37800	10.17	9.66	2.61	19.83	12.78	56.00	46.00	-36.17	-33.22

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



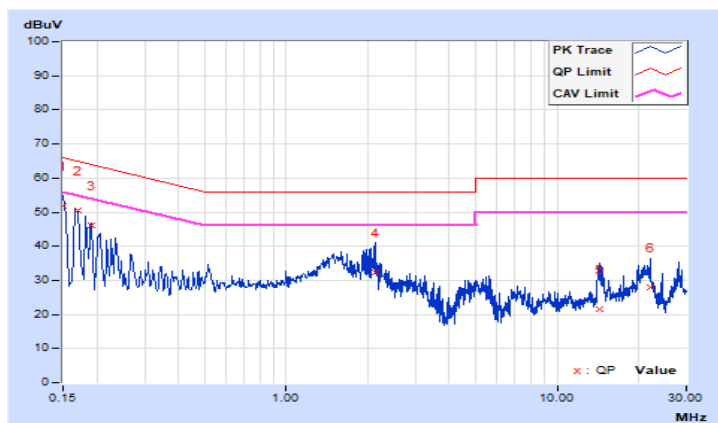
Mode B

RF Mode	TX 1MBaud PHY with Channel Sounding	Channel	CH 2 : 2404 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Edison Lee		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.08	41.93	23.12	52.01	33.20	66.00	56.00	-13.99	-22.80
2	0.17000	10.09	40.30	22.28	50.39	32.37	64.96	54.96	-14.57	-22.59
3	0.19000	10.10	36.01	18.82	46.11	28.92	64.04	54.04	-17.93	-25.12
4	2.12200	10.16	22.25	13.45	32.41	23.61	56.00	46.00	-23.59	-22.39
5	14.39400	10.68	10.77	4.37	21.45	15.05	60.00	50.00	-38.55	-34.95
6	22.11000	10.97	16.85	8.97	27.82	19.94	60.00	50.00	-32.18	-30.06

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

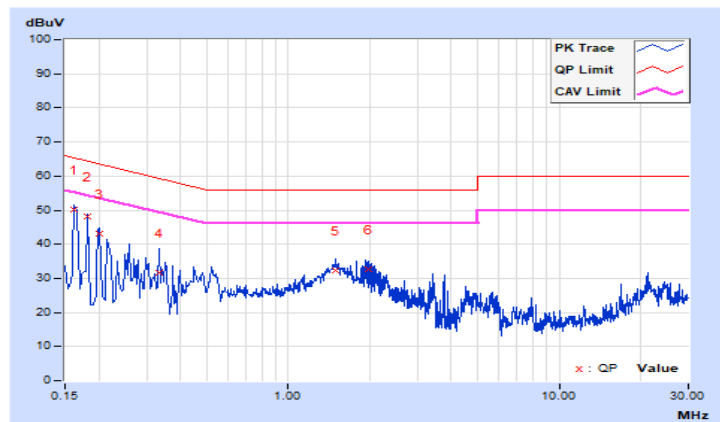


RF Mode	TX 1MBaud PHY with Channel Sounding	Channel	CH 2 : 2404 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Edison Lee		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16200	10.07	40.16	21.84	50.23	31.91	65.36	55.36	-15.13	-23.45
2	0.18200	10.08	38.18	19.90	48.26	29.98	64.39	54.39	-16.13	-24.41
3	0.20148	10.09	33.11	14.76	43.20	24.85	63.55	53.55	-20.35	-28.70
4	0.33400	10.09	21.47	8.15	31.56	18.24	59.35	49.35	-27.79	-31.11
5	1.49800	10.12	22.33	15.60	32.45	25.72	56.00	46.00	-23.55	-20.28
6	1.97400	10.14	22.58	12.12	32.72	22.26	56.00	46.00	-23.28	-23.74

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

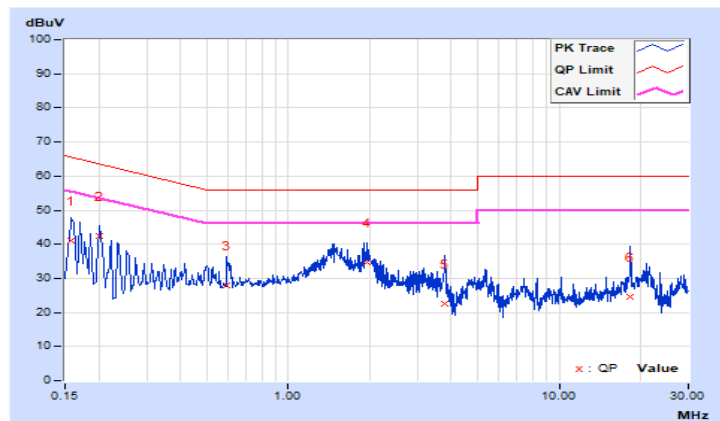


RF Mode	TX 1MBaud PHY with 1Mbps	Channel	CH 0 : 2402 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Edison Lee		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15800	10.08	31.13	22.00	41.21	32.08	65.57	55.57	-24.36	-23.49
2	0.20200	10.10	32.28	14.92	42.38	25.02	63.53	53.53	-21.15	-28.51
3	0.59400	10.11	17.74	10.49	27.85	20.60	56.00	46.00	-28.15	-25.40
4	1.94600	10.16	24.55	14.33	34.71	24.49	56.00	46.00	-21.29	-21.51
5	3.79800	10.22	12.42	1.65	22.64	11.87	56.00	46.00	-33.36	-34.13
6	18.33400	10.87	13.55	6.55	24.42	17.42	60.00	50.00	-35.58	-32.58

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

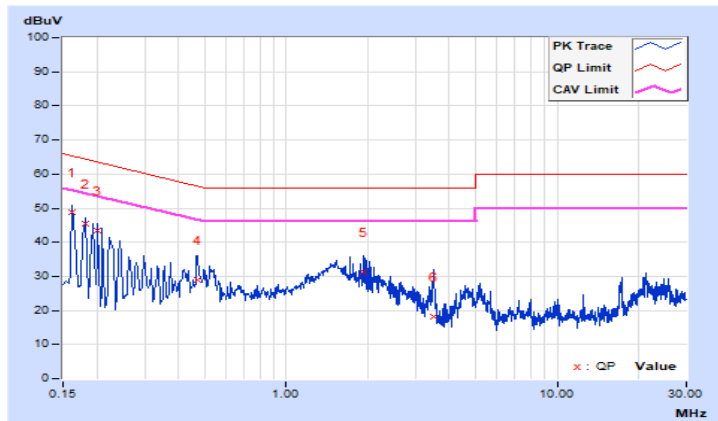


RF Mode	TX 1MBaud PHY with 1Mbps	Channel	CH 0 : 2402 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Edison Lee		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16200	10.07	38.74	21.46	48.81	31.53	65.36	55.36	-16.55	-23.83
2	0.18200	10.08	35.23	17.59	45.31	27.67	64.39	54.39	-19.08	-26.72
3	0.20200	10.09	33.33	14.95	43.42	25.04	63.53	53.53	-20.11	-28.49
4	0.46814	10.09	18.86	9.75	28.95	19.84	56.55	46.55	-27.60	-26.71
5	1.92200	10.14	21.29	11.39	31.43	21.53	56.00	46.00	-24.57	-24.47
6	3.49400	10.18	8.04	1.07	18.22	11.25	56.00	46.00	-37.78	-34.75

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



7.6 Unwanted Emissions below 1 GHz

Mode A

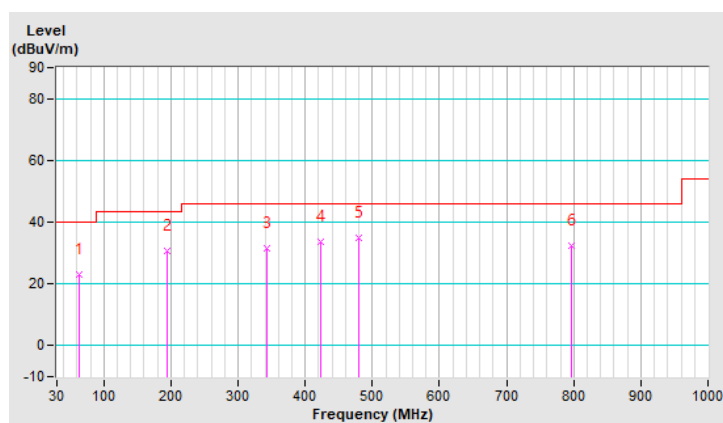
RF Mode	TX 1MBaud PHY with Channel Sounding	Channel	CH 2 : 2404 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	63.95	22.9 QP	40.0	-17.1	2.00 H	265	37.6	-14.7
2	194.90	30.6 QP	43.5	-12.9	2.00 H	234	47.1	-16.5
3	342.34	31.6 QP	46.0	-14.4	1.50 H	313	43.3	-11.7
4	423.82	33.6 QP	46.0	-12.4	1.50 H	184	43.3	-9.7
5	480.08	34.8 QP	46.0	-11.2	1.01 H	69	43.0	-8.2
6	797.27	32.2 QP	46.0	-13.8	1.01 H	217	34.9	-2.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

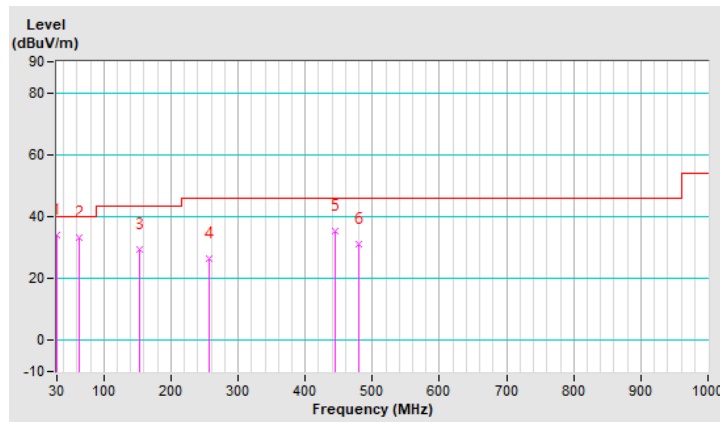


RF Mode	TX 1MBaud PHY with Channel Sounding	Channel	CH 2 : 2404 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.00	34.1 QP	40.0	-5.9	1.01 V	208	48.5	-14.4
2	63.95	33.2 QP	40.0	-6.8	1.01 V	294	47.9	-14.7
3	153.19	29.3 QP	43.5	-14.2	1.01 V	308	42.3	-13.0
4	256.01	26.6 QP	46.0	-19.4	1.01 V	67	41.1	-14.5
5	445.16	35.3 QP	46.0	-10.7	1.01 V	188	44.2	-8.9
6	480.08	31.0 QP	46.0	-15.0	1.01 V	107	39.2	-8.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

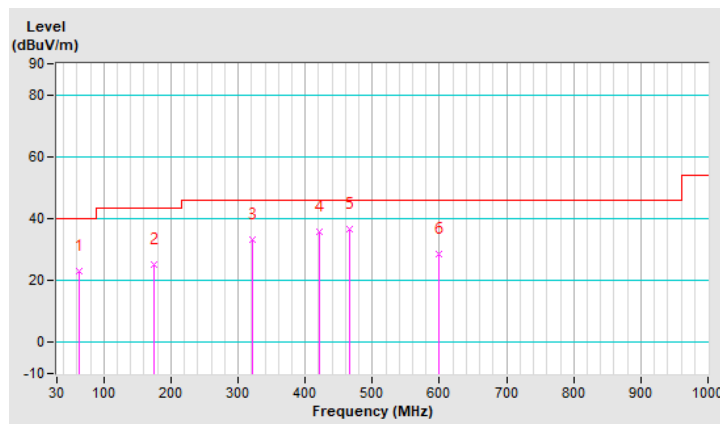


RF Mode	TX 1MBaud PHY with 1Mbps	Channel	CH 0 : 2402 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	63.95	23.1 QP	40.0	-16.9	2.00 H	239	37.8	-14.7
2	174.53	25.0 QP	43.5	-18.5	1.01 H	248	38.9	-13.9
3	321.97	33.4 QP	46.0	-12.6	1.01 H	287	45.4	-12.0
4	421.88	35.9 QP	46.0	-10.1	1.50 H	187	45.7	-9.8
5	466.50	36.8 QP	46.0	-9.2	1.01 H	3	45.2	-8.4
6	598.42	28.7 QP	46.0	-17.3	1.01 H	244	34.3	-5.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

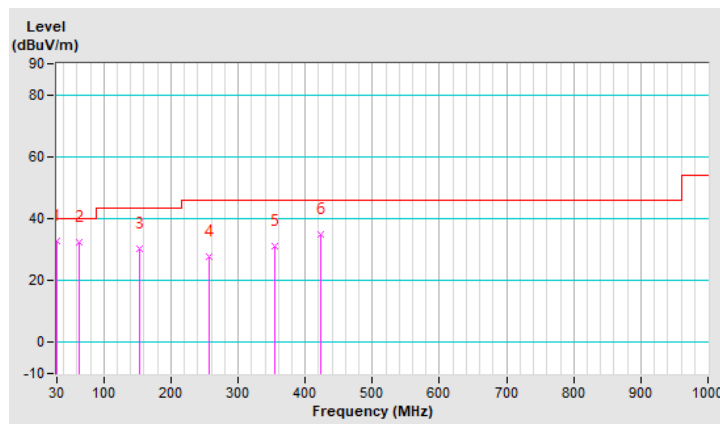


RF Mode	TX 1MBaud PHY with 1Mbps	Channel	CH 0 : 2402 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.00	32.8 QP	40.0	-7.2	2.00 V	246	47.2	-14.4
2	63.95	32.2 QP	40.0	-7.8	1.01 V	259	46.9	-14.7
3	153.19	30.4 QP	43.5	-13.1	1.01 V	220	43.4	-13.0
4	256.01	27.9 QP	46.0	-18.1	1.01 V	46	42.4	-14.5
5	353.98	31.0 QP	46.0	-15.0	2.00 V	229	42.7	-11.7
6	422.85	35.1 QP	46.0	-10.9	1.01 V	205	44.8	-9.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



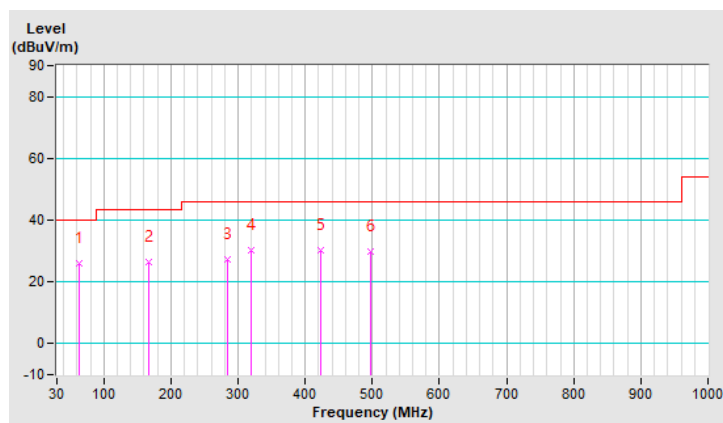
Mode B

RF Mode	TX 1MBaud PHY with Channel Sounding	Channel	CH 2 : 2404 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	62.98	26.2 QP	40.0	-13.8	1.49 H	296	40.4	-14.2
2	166.77	26.5 QP	43.5	-17.0	1.49 H	196	39.8	-13.3
3	285.11	27.1 QP	46.0	-18.9	1.00 H	248	40.1	-13.0
4	319.06	30.3 QP	46.0	-15.7	1.00 H	238	42.3	-12.0
5	423.82	30.3 QP	46.0	-15.7	1.00 H	172	40.0	-9.7
6	497.54	29.9 QP	46.0	-16.1	1.49 H	243	37.9	-8.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

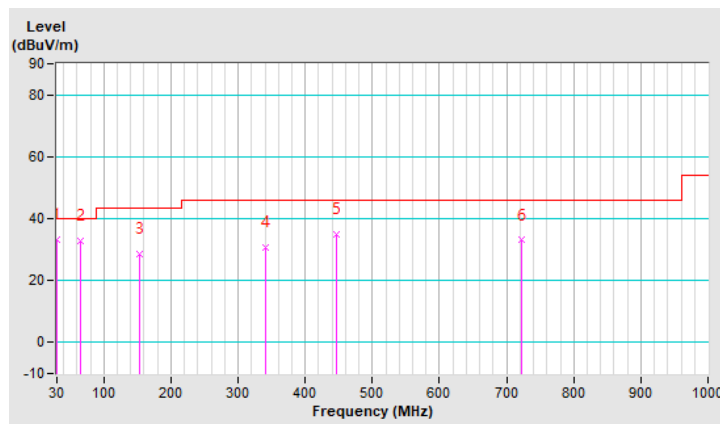


RF Mode	TX 1MBaud PHY with Channel Sounding	Channel	CH 2 : 2404 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.00	33.4 QP	40.0	-6.6	1.01 V	196	47.8	-14.4
2	64.92	32.6 QP	40.0	-7.4	1.01 V	288	47.5	-14.9
3	154.16	28.7 QP	43.5	-14.8	1.01 V	7	41.6	-12.9
4	341.37	30.7 QP	46.0	-15.3	1.50 V	231	42.4	-11.7
5	446.13	34.8 QP	46.0	-11.2	1.01 V	206	43.7	-8.9
6	721.61	33.0 QP	46.0	-13.0	1.50 V	213	36.7	-3.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

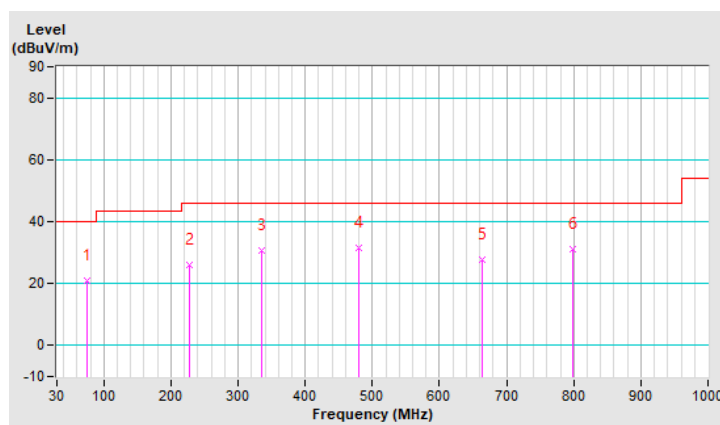


RF Mode	TX 1MBaud PHY with 1Mbps	Channel	CH 0 : 2402 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	74.62	21.0 QP	40.0	-19.0	2.00 H	355	37.8	-16.8
2	226.91	26.2 QP	46.0	-19.8	1.01 H	219	42.5	-16.3
3	334.58	30.8 QP	46.0	-15.2	1.01 H	270	42.5	-11.7
4	480.08	31.4 QP	46.0	-14.6	1.50 H	187	39.6	-8.2
5	663.41	27.7 QP	46.0	-18.3	1.01 H	241	32.4	-4.7
6	798.24	31.3 QP	46.0	-14.7	1.50 H	271	33.9	-2.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

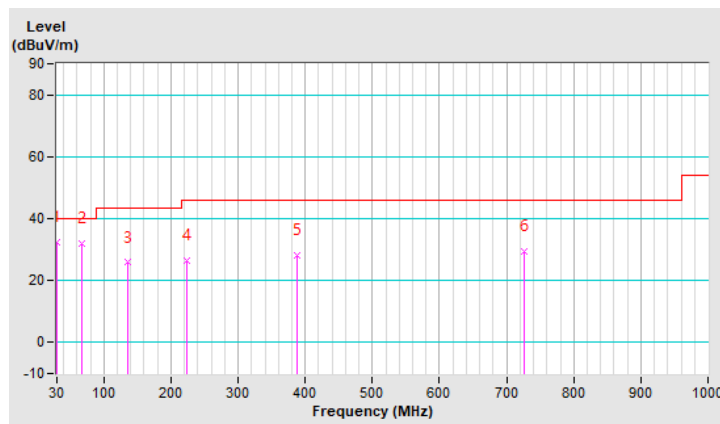


RF Mode	TX 1MBaud PHY with 1Mbps	Channel	CH 0 : 2402 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.00	32.5 QP	40.0	-7.5	1.01 V	238	46.9	-14.4
2	66.86	31.8 QP	40.0	-8.2	2.00 V	280	46.9	-15.1
3	135.73	25.8 QP	43.5	-17.7	1.01 V	277	39.7	-13.9
4	223.03	26.6 QP	46.0	-19.4	1.50 V	309	43.3	-16.7
5	387.93	28.2 QP	46.0	-17.8	1.01 V	208	38.8	-10.6
6	725.49	29.4 QP	46.0	-16.6	1.01 V	82	33.0	-3.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



7.7 Unwanted Emissions above 1 GHz

Mode A

RF Mode	TX 1MBaud PHY with Channel Sounding	Channel	CH 2 : 2404 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 20 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.3 PK	74.0	-16.7	1.00 H	151	25.0	32.3
2	2390.00	48.5 AV	54.0	-5.5	1.00 H	151	16.2	32.3
3	*2404.00	96.5 PK			1.00 H	151	64.2	32.3
4	*2404.00	96.1 AV			1.00 H	151	63.8	32.3
5	4808.00	48.1 PK	74.0	-25.9	1.31 H	26	44.6	3.5
6	4808.00	39.5 AV	54.0	-14.5	1.31 H	26	36.0	3.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.8 PK	74.0	-17.2	1.37 V	38	24.5	32.3
2	2390.00	48.3 AV	54.0	-5.7	1.37 V	38	16.0	32.3
3	*2404.00	109.4 PK			1.37 V	38	77.1	32.3
4	*2404.00	108.8 AV			1.37 V	38	76.5	32.3
5	4808.00	48.7 PK	74.0	-25.3	1.58 V	68	45.2	3.5
6	4808.00	40.5 AV	54.0	-13.5	1.58 V	68	37.0	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with Channel Sounding	Channel	CH 3 : 2405 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 20 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.7 PK	74.0	-17.3	1.03 H	151	24.4	32.3
2	2390.00	47.9 AV	54.0	-6.1	1.03 H	151	15.6	32.3
3	*2405.00	96.3 PK			1.03 H	151	64.0	32.3
4	*2405.00	95.7 AV			1.03 H	151	63.4	32.3
5	4810.00	48.4 PK	74.0	-25.6	1.34 H	33	44.8	3.6
6	4810.00	39.8 AV	54.0	-14.2	1.34 H	33	36.2	3.6

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	58.7 PK	74.0	-15.3	1.53 V	39	26.4	32.3
2	2390.00	48.3 AV	54.0	-5.7	1.53 V	39	16.0	32.3
3	*2405.00	109.3 PK			1.53 V	39	77.0	32.3
4	*2405.00	108.7 AV			1.53 V	39	76.4	32.3
5	4810.00	48.9 PK	74.0	-25.1	1.55 V	61	45.3	3.6
6	4810.00	40.7 AV	54.0	-13.3	1.55 V	61	37.1	3.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with Channel Sounding	Channel	CH 38 : 2440 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 20 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2440.00	97.5 PK			1.00 H	152	65.2	32.3
2	*2440.00	97.0 AV			1.00 H	152	64.7	32.3
3	4880.00	48.2 PK	74.0	-25.8	1.36 H	33	44.7	3.5
4	4880.00	39.7 AV	54.0	-14.3	1.36 H	33	36.2	3.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2440.00	109.1 PK			1.35 V	32	76.8	32.3
2	*2440.00	108.3 AV			1.35 V	32	76.0	32.3
3	4880.00	48.8 PK	74.0	-25.2	1.55 V	62	45.3	3.5
4	4880.00	40.7 AV	54.0	-13.3	1.55 V	62	37.2	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with Channel Sounding	Channel	CH 75 : 2477 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 20 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2477.00	95.8 PK			1.00 H	163	63.5	32.3
2	*2477.00	94.9 AV			1.00 H	163	62.6	32.3
3	2483.50	56.7 PK	74.0	-17.3	1.00 H	163	24.3	32.4
4	2483.50	45.8 AV	54.0	-8.2	1.00 H	163	13.4	32.4
5	4954.00	48.6 PK	74.0	-25.4	1.29 H	21	44.7	3.9
6	4954.00	40.2 AV	54.0	-13.8	1.29 H	21	36.3	3.9

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2477.00	107.6 PK			1.57 V	28	75.3	32.3
2	*2477.00	106.8 AV			1.57 V	28	74.5	32.3
3	2483.50	58.4 PK	74.0	-15.6	1.57 V	28	26.0	32.4
4	2483.50	49.5 AV	54.0	-4.5	1.57 V	28	17.1	32.4
5	4954.00	49.1 PK	74.0	-24.9	1.67 V	70	45.2	3.9
6	4954.00	41.1 AV	54.0	-12.9	1.67 V	70	37.2	3.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with Channel Sounding	Channel	CH 76 : 2478 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 20 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2478.00	95.8 PK			1.00 H	157	63.5	32.3
2	*2478.00	95.0 AV			1.00 H	157	62.7	32.3
3	2483.50	57.5 PK	74.0	-16.5	1.00 H	157	25.1	32.4
4	2483.50	49.7 AV	54.0	-4.3	1.00 H	157	17.3	32.4
5	4956.00	48.8 PK	74.0	-25.2	1.36 H	31	44.8	4.0
6	4956.00	40.2 AV	54.0	-13.8	1.36 H	31	36.2	4.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2478.00	107.5 PK			1.55 V	32	75.2	32.3
2	*2478.00	106.9 AV			1.55 V	32	74.6	32.3
3	2483.50	59.5 PK	74.0	-14.5	1.55 V	32	27.1	32.4
4	2483.50	50.4 AV	54.0	-3.6	1.55 V	32	18.0	32.4
5	4956.00	49.1 PK	74.0	-24.9	1.60 V	66	45.1	4.0
6	4956.00	41.0 AV	54.0	-13.0	1.60 V	66	37.0	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with 125kbps	Channel	CH 0 : 2402 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.4 PK	74.0	-17.6	1.09 H	164	24.1	32.3
2	2390.00	43.3 AV	54.0	-10.7	1.09 H	164	11.0	32.3
3	*2402.00	96.3 PK			1.09 H	164	64.0	32.3
4	*2402.00	95.0 AV			1.09 H	164	62.7	32.3
5	4804.00	47.7 PK	74.0	-26.3	1.24 H	18	44.2	3.5
6	4804.00	35.1 AV	54.0	-18.9	1.24 H	18	31.6	3.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.1 PK	74.0	-16.9	1.51 V	28	24.8	32.3
2	2390.00	43.8 AV	54.0	-10.2	1.51 V	28	11.5	32.3
3	*2402.00	108.6 PK			1.51 V	28	76.3	32.3
4	*2402.00	107.4 AV			1.51 V	28	75.1	32.3
5	4804.00	48.0 PK	74.0	-26.0	1.62 V	25	44.5	3.5
6	4804.00	35.5 AV	54.0	-18.5	1.62 V	25	32.0	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with 125kbps	Channel	CH 1 : 2404 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.3 PK	74.0	-17.7	1.08 H	163	24.0	32.3
2	2390.00	43.4 AV	54.0	-10.6	1.08 H	163	11.1	32.3
3	*2404.00	96.7 PK			1.08 H	163	64.4	32.3
4	*2404.00	95.4 AV			1.08 H	163	63.1	32.3
5	4804.00	47.6 PK	74.0	-26.4	1.20 H	13	44.1	3.5
6	4804.00	35.1 AV	54.0	-18.9	1.20 H	13	31.6	3.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.9 PK	74.0	-17.1	1.50 V	30	24.6	32.3
2	2390.00	43.8 AV	54.0	-10.2	1.50 V	30	11.5	32.3
3	*2404.00	108.5 PK			1.50 V	30	76.2	32.3
4	*2404.00	107.4 AV			1.50 V	30	75.1	32.3
5	4808.00	48.0 PK	74.0	-26.0	1.67 V	18	44.5	3.5
6	4808.00	35.7 AV	54.0	-18.3	1.67 V	18	32.2	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with 125kbps	Channel	CH 19 : 2440 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2440.00	97.3 PK			1.00 H	164	65.0	32.3
2	*2440.00	96.1 AV			1.00 H	164	63.8	32.3
3	4880.00	47.8 PK	74.0	-26.2	1.27 H	20	44.3	3.5
4	4880.00	35.1 AV	54.0	-18.9	1.27 H	20	31.6	3.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2440.00	108.6 PK			1.02 V	117	76.3	32.3
2	*2440.00	107.5 AV			1.02 V	117	75.2	32.3
3	4880.00	48.1 PK	74.0	-25.9	1.63 V	29	44.6	3.5
4	4880.00	35.9 AV	54.0	-18.1	1.63 V	29	32.4	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with 125kbps	Channel	CH 38 : 2478 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2478.00	95.7 PK			1.00 H	166	63.4	32.3
2	*2478.00	94.5 AV			1.00 H	166	62.2	32.3
3	2483.50	56.8 PK	74.0	-17.2	1.00 H	166	24.4	32.4
4	2483.50	46.2 AV	54.0	-7.8	1.00 H	166	13.8	32.4
5	4956.00	48.3 PK	74.0	-25.7	1.27 H	23	44.3	4.0
6	4956.00	35.6 AV	54.0	-18.4	1.27 H	23	31.6	4.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2478.00	107.0 PK			1.17 V	116	74.7	32.3
2	*2478.00	105.9 AV			1.17 V	116	73.6	32.3
3	2483.50	58.0 PK	74.0	-16.0	1.17 V	116	25.6	32.4
4	2483.50	46.8 AV	54.0	-7.2	1.17 V	116	14.4	32.4
5	4956.00	48.7 PK	74.0	-25.3	1.69 V	26	44.7	4.0
6	4956.00	36.5 AV	54.0	-17.5	1.69 V	26	32.5	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with 125kbps	Channel	CH 39 : 2480 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2480.00	95.6 PK			1.00 H	167	63.3	32.3
2	*2480.00	94.7 AV			1.00 H	167	62.4	32.3
3	2483.50	57.0 PK	74.0	-17.0	1.00 H	167	24.6	32.4
4	2483.50	46.5 AV	54.0	-7.5	1.00 H	167	14.1	32.4
5	4960.00	48.1 PK	74.0	-25.9	1.26 H	24	44.1	4.0
6	4960.00	35.5 AV	54.0	-18.5	1.26 H	24	31.5	4.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2480.00	107.1 PK			1.01 V	117	74.8	32.3
2	*2480.00	105.7 AV			1.01 V	117	73.4	32.3
3	2483.50	61.3 PK	74.0	-12.7	1.01 V	117	28.9	32.4
4	2483.50	49.6 AV	54.0	-4.4	1.01 V	117	17.2	32.4
5	4960.00	48.5 PK	74.0	-25.5	1.53 V	24	44.5	4.0
6	4960.00	36.6 AV	54.0	-17.4	1.53 V	24	32.6	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with 500kbps	Channel	CH 0 : 2402 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.5 PK	74.0	-17.5	1.16 H	153	24.2	32.3
2	2390.00	44.0 AV	54.0	-10.0	1.16 H	153	11.7	32.3
3	*2402.00	96.4 PK			1.16 H	153	64.1	32.3
4	*2402.00	95.3 AV			1.16 H	153	63.0	32.3
5	4804.00	47.7 PK	74.0	-26.3	1.31 H	26	44.2	3.5
6	4804.00	35.2 AV	54.0	-18.8	1.31 H	26	31.7	3.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.2 PK	74.0	-16.8	1.54 V	43	24.9	32.3
2	2390.00	44.2 AV	54.0	-9.8	1.54 V	43	11.9	32.3
3	*2402.00	109.1 PK			1.54 V	43	76.8	32.3
4	*2402.00	108.2 AV			1.54 V	43	75.9	32.3
5	4804.00	48.5 PK	74.0	-25.5	1.62 V	74	45.0	3.5
6	4804.00	36.3 AV	54.0	-17.7	1.62 V	74	32.8	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	TX 1MBaud PHY with 500kbps	Channel	CH 1 : 2404 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.4 PK	74.0	-17.6	1.17 H	151	24.1	32.3
2	2390.00	43.6 AV	54.0	-10.4	1.17 H	151	11.3	32.3
3	*2404.00	96.5 PK			1.17 H	151	64.2	32.3
4	*2404.00	95.6 AV			1.17 H	151	63.3	32.3
5	4808.00	47.5 PK	74.0	-26.5	1.28 H	30	44.0	3.5
6	4808.00	34.9 AV	54.0	-19.1	1.28 H	30	31.4	3.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.9 PK	74.0	-17.1	1.54 V	37	24.6	32.3
2	2390.00	44.1 AV	54.0	-9.9	1.54 V	37	11.8	32.3
3	*2404.00	109.0 PK			1.54 V	37	76.7	32.3
4	*2404.00	108.1 AV			1.54 V	37	75.8	32.3
5	4808.00	48.4 PK	74.0	-25.6	1.61 V	87	44.9	3.5
6	4808.00	36.1 AV	54.0	-17.9	1.61 V	87	32.6	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with 500kbps	Channel	CH 19 : 2440 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2440.00	97.5 PK			1.01 H	153	65.2	32.3
2	*2440.00	96.5 AV			1.01 H	153	64.2	32.3
3	4880.00	47.9 PK	74.0	-26.1	1.37 H	38	44.4	3.5
4	4880.00	35.3 AV	54.0	-18.7	1.37 H	38	31.8	3.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2440.00	109.1 PK			1.46 V	33	76.8	32.3
2	*2440.00	108.2 AV			1.46 V	33	75.9	32.3
3	4880.00	48.7 PK	74.0	-25.3	1.58 V	73	45.2	3.5
4	4880.00	36.5 AV	54.0	-17.5	1.58 V	73	33.0	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with 500kbps	Channel	CH 38 : 2478 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2478.00	97.4 PK			1.00 H	175	65.1	32.3
2	*2478.00	96.3 AV			1.00 H	175	64.0	32.3
3	2483.50	56.9 PK	74.0	-17.1	1.00 H	175	24.5	32.4
4	2483.50	45.7 AV	54.0	-8.3	1.00 H	175	13.3	32.4
5	4956.00	48.3 PK	74.0	-25.7	1.29 H	22	44.3	4.0
6	4956.00	35.5 AV	54.0	-18.5	1.29 H	22	31.5	4.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2478.00	106.6 PK			1.47 V	36	74.3	32.3
2	*2478.00	105.7 AV			1.47 V	36	73.4	32.3
3	2483.50	57.6 PK	74.0	-16.4	1.47 V	36	25.2	32.4
4	2483.50	47.1 AV	54.0	-6.9	1.47 V	36	14.7	32.4
5	4956.00	48.5 PK	74.0	-25.5	1.63 V	65	44.5	4.0
6	4956.00	36.4 AV	54.0	-17.6	1.63 V	65	32.4	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with 500kbps	Channel	CH 39 : 2480 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2480.00	97.5 PK			1.03 H	175	65.2	32.3
2	*2480.00	96.3 AV			1.03 H	175	64.0	32.3
3	2483.50	57.0 PK	74.0	-17.0	1.03 H	175	24.6	32.4
4	2483.50	46.3 AV	54.0	-7.7	1.03 H	175	13.9	32.4
5	4960.00	48.0 PK	74.0	-26.0	1.36 H	33	44.0	4.0
6	4960.00	35.6 AV	54.0	-18.4	1.36 H	33	31.6	4.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2480.00	107.5 PK			1.54 V	36	75.2	32.3
2	*2480.00	106.3 AV			1.54 V	36	74.0	32.3
3	2483.50	61.1 PK	74.0	-12.9	1.54 V	6	28.7	32.4
4	2483.50	50.1 AV	54.0	-3.9	1.54 V	6	17.7	32.4
5	4960.00	48.9 PK	74.0	-25.1	1.67 V	68	44.9	4.0
6	4960.00	36.6 AV	54.0	-17.4	1.67 V	68	32.6	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with 1Mbps	Channel	CH 0 : 2402 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.4 PK	74.0	-17.6	1.09 H	163	24.1	32.3
2	2390.00	43.3 AV	54.0	-10.7	1.09 H	163	11.0	32.3
3	*2402.00	96.6 PK			1.09 H	163	64.3	32.3
4	*2402.00	95.7 AV			1.09 H	163	63.4	32.3
5	4804.00	47.5 PK	74.0	-26.5	1.11 H	11	44.0	3.5
6	4804.00	35.1 AV	54.0	-18.9	1.11 H	11	31.6	3.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.7 PK	74.0	-17.3	1.48 V	28	24.4	32.3
2	2390.00	43.9 AV	54.0	-10.1	1.48 V	28	11.6	32.3
3	*2402.00	108.9 PK			1.48 V	28	76.6	32.3
4	*2402.00	107.4 AV			1.48 V	28	75.1	32.3
5	4804.00	47.9 PK	74.0	-26.1	1.51 V	20	44.4	3.5
6	4804.00	35.5 AV	54.0	-18.5	1.51 V	20	32.0	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with 1Mbps	Channel	CH 1 : 2404 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.3 PK	74.0	-17.7	1.12 H	164	24.0	32.3
2	2390.00	43.3 AV	54.0	-10.7	1.12 H	164	11.0	32.3
3	*2404.00	96.5 PK			1.12 H	164	64.2	32.3
4	*2404.00	95.5 AV			1.12 H	164	63.2	32.3
5	4808.00	47.4 PK	74.0	-26.6	1.20 H	8	43.9	3.5
6	4808.00	35.0 AV	54.0	-19.0	1.20 H	8	31.5	3.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.8 PK	74.0	-17.2	1.49 V	26	24.5	32.3
2	2390.00	43.7 AV	54.0	-10.3	1.49 V	26	11.4	32.3
3	*2404.00	108.5 PK			1.49 V	26	76.2	32.3
4	*2404.00	107.4 AV			1.49 V	26	75.1	32.3
5	4808.00	47.7 PK	74.0	-26.3	1.53 V	21	44.2	3.5
6	4808.00	35.4 AV	54.0	-18.6	1.53 V	21	31.9	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with 1Mbps	Channel	CH 19 : 2440 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2440.00	97.0 PK			1.12 H	160	64.7	32.3
2	*2440.00	95.9 AV			1.12 H	160	63.6	32.3
3	4880.00	47.6 PK	74.0	-26.4	1.09 H	16	44.1	3.5
4	4880.00	35.0 AV	54.0	-19.0	1.09 H	16	31.5	3.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2440.00	109.3 PK			1.48 V	17	77.0	32.3
2	*2440.00	107.6 AV			1.48 V	17	75.3	32.3
3	4880.00	48.1 PK	74.0	-25.9	1.52 V	18	44.6	3.5
4	4880.00	35.7 AV	54.0	-18.3	1.52 V	18	32.2	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with 1Mbps	Channel	CH 38 : 2478 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2478.00	95.4 PK			1.00 H	167	63.1	32.3
2	*2478.00	94.2 AV			1.00 H	167	61.9	32.3
3	2483.50	56.6 PK	74.0	-17.4	1.00 H	167	24.2	32.4
4	2483.50	45.1 AV	54.0	-8.9	1.00 H	167	12.7	32.4
5	4956.00	47.8 PK	74.0	-26.2	1.15 H	13	43.8	4.0
6	4956.00	35.2 AV	54.0	-18.8	1.15 H	13	31.2	4.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2478.00	107.0 PK			1.00 V	27	74.7	32.3
2	*2478.00	105.9 AV			1.00 V	27	73.6	32.3
3	2483.50	57.7 PK	74.0	-16.3	1.00 V	27	25.3	32.4
4	2483.50	46.7 AV	54.0	-7.3	1.00 V	27	14.3	32.4
5	4956.00	48.0 PK	74.0	-26.0	1.57 V	21	44.0	4.0
6	4956.00	35.6 AV	54.0	-18.4	1.57 V	21	31.6	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with 1Mbps	Channel	CH 39 : 2480 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2480.00	95.5 PK			1.00 H	166	63.2	32.3
2	*2480.00	94.5 AV			1.00 H	166	62.2	32.3
3	2483.50	56.9 PK	74.0	-17.1	1.00 H	166	24.5	32.4
4	2483.50	45.5 AV	54.0	-8.5	1.00 H	166	13.1	32.4
5	4960.00	48.1 PK	74.0	-25.9	1.17 H	20	44.1	4.0
6	4960.00	35.8 AV	54.0	-18.2	1.17 H	20	31.8	4.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2480.00	107.8 PK			1.00 V	117	75.5	32.3
2	*2480.00	106.0 AV			1.00 V	117	73.7	32.3
3	2483.50	62.6 PK	74.0	-11.4	1.00 V	117	30.2	32.4
4	2483.50	49.4 AV	54.0	-4.6	1.00 V	117	17.0	32.4
5	4960.00	48.6 PK	74.0	-25.4	1.60 V	27	44.6	4.0
6	4960.00	36.4 AV	54.0	-17.6	1.60 V	27	32.4	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 2MBaud PHY	Channel	CH 1 : 2404 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	55.9 PK	74.0	-18.1	1.07 H	163	23.6	32.3
2	2390.00	43.4 AV	54.0	-10.6	1.07 H	163	11.1	32.3
3	*2404.00	96.5 PK			1.07 H	163	64.2	32.3
4	*2404.00	93.8 AV			1.07 H	163	61.5	32.3
5	4808.00	47.5 PK	74.0	-26.5	1.19 H	10	44.0	3.5
6	4808.00	34.7 AV	54.0	-19.3	1.19 H	10	31.2	3.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.9 PK	74.0	-17.1	1.09 V	28	24.6	32.3
2	2390.00	43.8 AV	54.0	-10.2	1.09 V	28	11.5	32.3
3	*2404.00	108.7 PK			1.09 V	28	76.4	32.3
4	*2404.00	106.0 AV			1.09 V	28	73.7	32.3
5	4808.00	47.8 PK	74.0	-26.2	1.53 V	27	44.3	3.5
6	4808.00	35.7 AV	54.0	-18.3	1.53 V	27	32.2	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 2MBaud PHY	Channel	CH 19 : 2440 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2440.00	96.5 PK			1.08 H	167	64.2	32.3
2	*2440.00	93.7 AV			1.08 H	167	61.4	32.3
3	4880.00	47.8 PK	74.0	-26.2	1.15 H	13	44.3	3.5
4	4880.00	34.9 AV	54.0	-19.1	1.15 H	13	31.4	3.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2440.00	108.4 PK			1.51 V	19	76.1	32.3
2	*2440.00	105.6 AV			1.51 V	19	73.3	32.3
3	4880.00	50.0 PK	74.0	-24.0	1.48 V	26	46.5	3.5
4	4880.00	36.0 AV	54.0	-18.0	1.48 V	26	32.5	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 2MBaud PHY	Channel	CH 38 : 2478 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2478.00	95.6 PK			1.00 H	166	63.3	32.3
2	*2478.00	93.3 AV			1.00 H	166	61.0	32.3
3	2483.50	56.7 PK	74.0	-17.3	1.00 H	166	24.3	32.4
4	2483.50	45.4 AV	54.0	-8.6	1.00 H	166	13.0	32.4
5	4956.00	47.9 PK	74.0	-26.1	1.21 H	23	43.9	4.0
6	4956.00	35.5 AV	54.0	-18.5	1.21 H	23	31.5	4.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2478.00	107.0 PK			1.00 V	117	74.7	32.3
2	*2478.00	104.3 AV			1.00 V	117	72.0	32.3
3	2483.50	58.8 PK	74.0	-15.2	1.00 V	117	26.4	32.4
4	2483.50	48.0 AV	54.0	-6.0	1.00 V	117	15.6	32.4
5	4956.00	48.2 PK	74.0	-25.8	1.53 V	21	44.2	4.0
6	4956.00	36.2 AV	54.0	-17.8	1.53 V	21	32.2	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

Mode B

RF Mode	TX 1MBaud PHY with Channel Sounding	Channel	CH 2 : 2404 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 20 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	58.3 PK	74.0	-15.7	1.15 H	79	26.0	32.3
2	2390.00	47.9 AV	54.0	-6.1	1.15 H	79	15.6	32.3
3	*2404.00	109.2 PK			1.15 H	79	76.9	32.3
4	*2404.00	108.3 AV			1.15 H	79	76.0	32.3
5	4808.00	51.6 PK	74.0	-22.4	1.20 H	90	48.1	3.5
6	4808.00	46.5 AV	54.0	-7.5	1.20 H	90	43.0	3.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.4 PK	74.0	-17.6	3.89 V	180	24.1	32.3
2	2390.00	47.6 AV	54.0	-6.4	3.89 V	180	15.3	32.3
3	*2404.00	103.9 PK			3.89 V	180	71.6	32.3
4	*2404.00	103.4 AV			3.89 V	180	71.1	32.3
5	4808.00	50.5 PK	74.0	-23.5	3.77 V	356	47.0	3.5
6	4808.00	44.5 AV	54.0	-9.5	3.77 V	356	41.0	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with Channel Sounding	Channel	CH 3 : 2405 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 20 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	58.3 PK	74.0	-15.7	1.23 H	89	26.0	32.3
2	2390.00	48.2 AV	54.0	-5.8	1.23 H	89	15.9	32.3
3	*2405.00	109.2 PK			1.23 H	89	76.9	32.3
4	*2405.00	108.5 AV			1.23 H	89	76.2	32.3
5	4810.00	51.5 PK	74.0	-22.5	1.20 H	82	47.9	3.6
6	4810.00	45.2 AV	54.0	-8.8	1.20 H	82	41.6	3.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.0 PK	74.0	-17.0	3.90 V	181	24.7	32.3
2	2390.00	47.8 AV	54.0	-6.2	3.90 V	181	15.5	32.3
3	*2405.00	103.9 PK			3.90 V	181	71.6	32.3
4	*2405.00	103.1 AV			3.90 V	181	70.8	32.3
5	4810.00	50.8 PK	74.0	-23.2	3.77 V	355	47.2	3.6
6	4810.00	44.7 AV	54.0	-9.3	3.77 V	355	41.1	3.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with Channel Sounding	Channel	CH 38 : 2440 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 20 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2440.00	109.3 PK			1.19 H	85	77.0	32.3
2	*2440.00	108.7 AV			1.19 H	85	76.4	32.3
3	4880.00	50.7 PK	74.0	-23.3	1.21 H	92	47.2	3.5
4	4880.00	45.0 AV	54.0	-9.0	1.21 H	92	41.5	3.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2440.00	103.5 PK			3.87 V	192	71.2	32.3
2	*2440.00	102.7 AV			3.87 V	192	70.4	32.3
3	4880.00	50.3 PK	74.0	-23.7	3.66 V	360	46.8	3.5
4	4880.00	44.5 AV	54.0	-9.5	3.66 V	360	41.0	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with Channel Sounding	Channel	CH 75 : 2477 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 20 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2477.00	109.5 PK			1.21 H	80	77.2	32.3
2	*2477.00	108.9 AV			1.21 H	80	76.6	32.3
3	2483.50	59.6 PK	74.0	-14.4	1.21 H	80	27.2	32.4
4	2483.50	50.7 AV	54.0	-3.3	1.21 H	80	18.3	32.4
5	4954.00	51.5 PK	74.0	-22.5	1.23 H	85	47.6	3.9
6	4954.00	45.5 AV	54.0	-8.5	1.23 H	85	41.6	3.9

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2477.00	104.2 PK			3.69 V	193	71.9	32.3
2	*2477.00	103.6 AV			3.69 V	193	71.3	32.3
3	2483.50	57.4 PK	74.0	-16.6	3.69 V	193	25.0	32.4
4	2483.50	49.2 AV	54.0	-4.8	3.69 V	193	16.8	32.4
5	4954.00	51.1 PK	74.0	-22.9	3.76 V	360	47.2	3.9
6	4954.00	45.1 AV	54.0	-8.9	3.76 V	360	41.2	3.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with Channel Sounding	Channel	CH 76 : 2478 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 20 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2478.00	109.5 PK			1.20 H	89	77.2	32.3
2	*2478.00	108.9 AV			1.20 H	89	76.6	32.3
3	2483.50	59.8 PK	74.0	-14.2	1.20 H	89	27.4	32.4
4	2483.50	51.2 AV	54.0	-2.8	1.20 H	89	18.8	32.4
5	4956.00	52.2 PK	74.0	-21.8	1.18 H	84	48.2	4.0
6	4956.00	45.6 AV	54.0	-8.4	1.18 H	84	41.6	4.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2478.00	103.5 PK			3.68 V	188	71.2	32.3
2	*2478.00	102.8 AV			3.68 V	188	70.5	32.3
3	2483.50	57.4 PK	74.0	-16.6	3.68 V	188	25.0	32.4
4	2483.50	49.6 AV	54.0	-4.4	3.68 V	188	17.2	32.4
5	4956.00	51.3 PK	74.0	-22.7	3.74 V	355	47.3	4.0
6	4956.00	45.1 AV	54.0	-8.9	3.74 V	355	41.1	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with 125kbps	Channel	CH 0 : 2402 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.8 PK	74.0	-17.2	1.18 H	85	24.5	32.3
2	2390.00	44.3 AV	54.0	-9.7	1.18 H	85	12.0	32.3
3	*2402.00	110.0 PK			1.18 H	85	77.7	32.3
4	*2402.00	108.9 AV			1.18 H	85	76.6	32.3
5	4804.00	50.7 PK	74.0	-23.3	1.14 H	85	47.2	3.5
6	4804.00	40.1 AV	54.0	-13.9	1.14 H	85	36.6	3.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.6 PK	74.0	-17.4	3.90 V	192	24.3	32.3
2	2390.00	43.6 AV	54.0	-10.4	3.90 V	192	11.3	32.3
3	*2402.00	103.7 PK			3.90 V	192	71.4	32.3
4	*2402.00	102.6 AV			3.90 V	192	70.3	32.3
5	4804.00	50.0 PK	74.0	-24.0	3.70 V	351	46.5	3.5
6	4804.00	37.8 AV	54.0	-16.2	3.70 V	351	34.3	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with 125kbps	Channel	CH 1 : 2404 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.3 PK	74.0	-16.7	1.20 H	79	25.0	32.3
2	2390.00	44.2 AV	54.0	-9.8	1.20 H	79	11.9	32.3
3	*2404.00	110.4 PK			1.20 H	79	78.1	32.3
4	*2404.00	109.3 AV			1.20 H	79	77.0	32.3
5	4808.00	50.6 PK	74.0	-23.4	1.12 H	92	47.1	3.5
6	4808.00	39.7 AV	54.0	-14.3	1.12 H	92	36.2	3.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.4 PK	74.0	-17.6	3.88 V	190	24.1	32.3
2	2390.00	43.4 AV	54.0	-10.6	3.88 V	190	11.1	32.3
3	*2404.00	103.6 PK			3.88 V	190	71.3	32.3
4	*2404.00	102.4 AV			3.88 V	190	70.1	32.3
5	4808.00	50.1 PK	74.0	-23.9	3.81 V	357	46.6	3.5
6	4808.00	38.3 AV	54.0	-15.7	3.81 V	357	34.8	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with 125kbps	Channel	CH 19 : 2440 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2440.00	110.6 PK			1.21 H	78	78.3	32.3
2	*2440.00	109.3 AV			1.21 H	78	77.0	32.3
3	4880.00	51.3 PK	74.0	-22.7	1.11 H	97	47.8	3.5
4	4880.00	40.1 AV	54.0	-13.9	1.11 H	97	36.6	3.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2440.00	103.9 PK			3.81 V	182	71.6	32.3
2	*2440.00	102.8 AV			3.81 V	182	70.5	32.3
3	4880.00	50.3 PK	74.0	-23.7	3.78 V	360	46.8	3.5
4	4880.00	38.3 AV	54.0	-15.7	3.78 V	360	34.8	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with 125kbps	Channel	CH 38 : 2478 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2478.00	109.6 PK			1.33 H	74	77.3	32.3
2	*2478.00	108.4 AV			1.33 H	74	76.1	32.3
3	2483.50	60.0 PK	74.0	-14.0	1.33 H	74	27.6	32.4
4	2483.50	48.7 AV	54.0	-5.3	1.33 H	74	16.3	32.4
5	4956.00	51.8 PK	74.0	-22.2	1.28 H	93	47.8	4.0
6	4956.00	40.9 AV	54.0	-13.1	1.28 H	93	36.9	4.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2478.00	104.5 PK			3.63 V	193	72.2	32.3
2	*2478.00	103.2 AV			3.63 V	193	70.9	32.3
3	2483.50	56.5 PK	74.0	-17.5	3.63 V	193	24.1	32.4
4	2483.50	46.3 AV	54.0	-7.7	3.63 V	193	13.9	32.4
5	4956.00	50.8 PK	74.0	-23.2	3.80 V	360	46.8	4.0
6	4956.00	38.5 AV	54.0	-15.5	3.80 V	360	34.5	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with 125kbps	Channel	CH 39 : 2480 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2480.00	109.6 PK			1.27 H	77	77.3	32.3
2	*2480.00	108.4 AV			1.27 H	77	76.1	32.3
3	2483.50	62.9 PK	74.0	-11.1	1.27 H	77	30.5	32.4
4	2483.50	51.4 AV	54.0	-2.6	1.27 H	77	19.0	32.4
5	4960.00	51.8 PK	74.0	-22.2	1.22 H	81	47.8	4.0
6	4960.00	40.6 AV	54.0	-13.4	1.22 H	81	36.6	4.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2480.00	104.3 PK			3.63 V	194	72.0	32.3
2	*2480.00	103.1 AV			3.63 V	194	70.8	32.3
3	2483.50	58.7 PK	74.0	-15.3	3.63 V	194	26.3	32.4
4	2483.50	48.2 AV	54.0	-5.8	3.63 V	194	15.8	32.4
5	4960.00	50.8 PK	74.0	-23.2	3.80 V	360	46.8	4.0
6	4960.00	38.9 AV	54.0	-15.1	3.80 V	360	34.9	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	TX 1MBaud PHY with 500kbps	Channel	CH 0 : 2402 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.3 PK	74.0	-16.7	1.41 H	81	25.0	32.3
2	2390.00	44.2 AV	54.0	-9.8	1.41 H	81	11.9	32.3
3	*2402.00	109.2 PK			1.41 H	81	76.9	32.3
4	*2402.00	108.2 AV			1.41 H	81	75.9	32.3
5	4804.00	51.5 PK	74.0	-22.5	1.21 H	92	48.0	3.5
6	4804.00	40.3 AV	54.0	-13.7	1.21 H	92	36.8	3.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.8 PK	74.0	-17.2	3.95 V	185	24.5	32.3
2	2390.00	43.7 AV	54.0	-10.3	3.95 V	185	11.4	32.3
3	*2402.00	103.9 PK			3.95 V	185	71.6	32.3
4	*2402.00	102.9 AV			3.95 V	185	70.6	32.3
5	4804.00	49.9 PK	74.0	-24.1	3.81 V	351	46.4	3.5
6	4804.00	38.3 AV	54.0	-15.7	3.81 V	351	34.8	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with 500kbps	Channel	CH 1 : 2404 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.3 PK	74.0	-16.7	1.20 H	81	25.0	32.3
2	2390.00	44.3 AV	54.0	-9.7	1.20 H	81	12.0	32.3
3	*2404.00	109.7 PK			1.20 H	81	77.4	32.3
4	*2404.00	108.7 AV			1.20 H	81	76.4	32.3
5	4808.00	51.1 PK	74.0	-22.9	1.21 H	93	47.6	3.5
6	4808.00	40.3 AV	54.0	-13.7	1.21 H	93	36.8	3.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.6 PK	74.0	-17.4	3.85 V	188	24.3	32.3
2	2390.00	44.0 AV	54.0	-10.0	3.85 V	188	11.7	32.3
3	*2404.00	103.5 PK			3.85 V	188	71.2	32.3
4	*2404.00	102.7 AV			3.85 V	188	70.4	32.3
5	4808.00	50.5 PK	74.0	-23.5	3.69 V	344	47.0	3.5
6	4808.00	38.5 AV	54.0	-15.5	3.69 V	344	35.0	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with 500kbps	Channel	CH 19 : 2440 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2440.00	110.0 PK			1.21 H	83	77.7	32.3
2	*2440.00	108.9 AV			1.21 H	83	76.6	32.3
3	4880.00	51.6 PK	74.0	-22.4	1.15 H	83	48.1	3.5
4	4880.00	40.4 AV	54.0	-13.6	1.15 H	83	36.9	3.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2440.00	103.8 PK			3.81 V	182	71.5	32.3
2	*2440.00	103.0 AV			3.81 V	182	70.7	32.3
3	4880.00	50.4 PK	74.0	-23.6	3.87 V	345	46.9	3.5
4	4880.00	38.5 AV	54.0	-15.5	3.87 V	345	35.0	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with 500kbps	Channel	CH 38 : 2478 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2478.00	109.3 PK			1.49 H	85	77.0	32.3
2	*2478.00	108.2 AV			1.49 H	85	75.9	32.3
3	2483.50	59.4 PK	74.0	-14.6	1.49 H	85	27.0	32.4
4	2483.50	47.9 AV	54.0	-6.1	1.49 H	85	15.5	32.4
5	4956.00	51.8 PK	74.0	-22.2	1.16 H	97	47.8	4.0
6	4956.00	40.6 AV	54.0	-13.4	1.16 H	97	36.6	4.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2478.00	104.0 PK			3.62 V	196	71.7	32.3
2	*2478.00	103.3 AV			3.62 V	196	71.0	32.3
3	2483.50	58.0 PK	74.0	-16.0	3.62 V	196	25.6	32.4
4	2483.50	46.2 AV	54.0	-7.8	3.62 V	196	13.8	32.4
5	4956.00	50.8 PK	74.0	-23.2	3.81 V	351	46.8	4.0
6	4956.00	39.0 AV	54.0	-15.0	3.81 V	351	35.0	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with 500kbps	Channel	CH 39 : 2480 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2480.00	109.7 PK			1.32 H	79	77.4	32.3
2	*2480.00	108.7 AV			1.32 H	79	76.4	32.3
3	2483.50	64.7 PK	74.0	-9.3	1.32 H	79	32.3	32.4
4	2483.50	51.9 AV	54.0	-2.1	1.32 H	79	19.5	32.4
5	4960.00	51.8 PK	74.0	-22.2	1.23 H	93	47.8	4.0
6	4960.00	40.8 AV	54.0	-13.2	1.23 H	93	36.8	4.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2480.00	104.0 PK			3.62 V	168	71.7	32.3
2	*2480.00	103.1 AV			3.62 V	168	70.8	32.3
3	2483.50	58.5 PK	74.0	-15.5	3.62 V	168	26.1	32.4
4	2483.50	48.1 AV	54.0	-5.9	3.62 V	168	15.7	32.4
5	4960.00	50.9 PK	74.0	-23.1	3.70 V	360	46.9	4.0
6	4960.00	39.0 AV	54.0	-15.0	3.70 V	360	35.0	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	TX 1MBaud PHY with 1Mbps	Channel	CH 0 : 2402 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.3 PK	74.0	-16.7	1.20 H	81	25.0	32.3
2	2390.00	44.0 AV	54.0	-10.0	1.20 H	81	11.7	32.3
3	*2402.00	110.1 PK			1.20 H	81	77.8	32.3
4	*2402.00	109.2 AV			1.20 H	81	76.9	32.3
5	4804.00	52.0 PK	74.0	-22.0	1.13 H	89	48.5	3.5
6	4804.00	40.9 AV	54.0	-13.1	1.13 H	89	37.4	3.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.2 PK	74.0	-17.8	3.89 V	189	23.9	32.3
2	2390.00	43.8 AV	54.0	-10.2	3.89 V	189	11.5	32.3
3	*2402.00	103.8 PK			3.89 V	189	71.5	32.3
4	*2402.00	102.8 AV			3.89 V	189	70.5	32.3
5	4804.00	50.9 PK	74.0	-23.1	3.74 V	356	47.4	3.5
6	4804.00	39.3 AV	54.0	-14.7	3.74 V	356	35.8	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with 1Mbps	Channel	CH 1 : 2404 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.5 PK	74.0	-16.5	1.21 H	82	25.2	32.3
2	2390.00	44.2 AV	54.0	-9.8	1.21 H	82	11.9	32.3
3	*2404.00	110.3 PK			1.21 H	82	78.0	32.3
4	*2404.00	109.3 AV			1.21 H	82	77.0	32.3
5	4808.00	52.1 PK	74.0	-21.9	1.14 H	91	48.6	3.5
6	4808.00	41.0 AV	54.0	-13.0	1.14 H	91	37.5	3.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.5 PK	74.0	-17.5	3.88 V	188	24.2	32.3
2	2390.00	43.9 AV	54.0	-10.1	3.88 V	188	11.6	32.3
3	*2404.00	103.5 PK			3.88 V	188	71.2	32.3
4	*2404.00	102.5 AV			3.88 V	188	70.2	32.3
5	4808.00	51.1 PK	74.0	-22.9	3.77 V	351	47.6	3.5
6	4808.00	39.4 AV	54.0	-14.6	3.77 V	351	35.9	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with 1Mbps	Channel	CH 19 : 2440 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2440.00	110.3 PK			1.16 H	76	78.0	32.3
2	*2440.00	109.0 AV			1.16 H	76	76.7	32.3
3	4880.00	52.6 PK	74.0	-21.4	1.20 H	97	49.1	3.5
4	4880.00	41.5 AV	54.0	-12.5	1.20 H	97	38.0	3.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2440.00	103.8 PK			3.74 V	191	71.5	32.3
2	*2440.00	103.0 AV			3.74 V	191	70.7	32.3
3	4880.00	51.1 PK	74.0	-22.9	3.77 V	360	47.6	3.5
4	4880.00	39.7 AV	54.0	-14.3	3.77 V	360	36.2	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with 1Mbps	Channel	CH 38 : 2478 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2478.00	109.4 PK			1.26 H	85	77.1	32.3
2	*2478.00	108.3 AV			1.26 H	85	76.0	32.3
3	2483.50	59.3 PK	74.0	-14.7	1.26 H	85	26.9	32.4
4	2483.50	48.0 AV	54.0	-6.0	1.26 H	85	15.6	32.4
5	4956.00	52.6 PK	74.0	-21.4	1.11 H	87	48.6	4.0
6	4956.00	41.4 AV	54.0	-12.6	1.11 H	87	37.4	4.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2478.00	104.5 PK			3.62 V	192	72.2	32.3
2	*2478.00	103.5 AV			3.62 V	192	71.2	32.3
3	2483.50	58.4 PK	74.0	-15.6	3.62 V	192	26.0	32.4
4	2483.50	46.3 AV	54.0	-7.7	3.62 V	192	13.9	32.4
5	4956.00	51.1 PK	74.0	-22.9	3.78 V	355	47.1	4.0
6	4956.00	39.7 AV	54.0	-14.3	3.78 V	355	35.7	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 1MBaud PHY with 1Mbps	Channel	CH 39 : 2480 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2480.00	109.9 PK			1.33 H	78	77.6	32.3
2	*2480.00	108.8 AV			1.33 H	78	76.5	32.3
3	2483.50	63.7 PK	74.0	-10.3	1.33 H	78	31.3	32.4
4	2483.50	51.9 AV	54.0	-2.1	1.33 H	78	19.5	32.4
5	4960.00	52.7 PK	74.0	-21.3	1.23 H	92	48.7	4.0
6	4960.00	41.6 AV	54.0	-12.4	1.23 H	92	37.6	4.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2480.00	104.1 PK			3.64 V	193	71.8	32.3
2	*2480.00	103.2 AV			3.64 V	193	70.9	32.3
3	2483.50	59.1 PK	74.0	-14.9	3.64 V	193	26.7	32.4
4	2483.50	48.0 AV	54.0	-6.0	3.64 V	193	15.6	32.4
5	4960.00	51.5 PK	74.0	-22.5	3.80 V	360	47.5	4.0
6	4960.00	40.0 AV	54.0	-14.0	3.80 V	360	36.0	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 2MBaud PHY	Channel	CH 1 : 2404 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.8 PK	74.0	-16.2	1.17 H	83	25.5	32.3
2	2390.00	44.0 AV	54.0	-10.0	1.17 H	83	11.7	32.3
3	*2404.00	110.1 PK			1.17 H	83	77.8	32.3
4	*2404.00	107.6 AV			1.17 H	83	75.3	32.3
5	4808.00	50.9 PK	74.0	-23.1	1.21 H	91	47.4	3.5
6	4808.00	39.9 AV	54.0	-14.1	1.21 H	91	36.4	3.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.1 PK	74.0	-16.9	3.88 V	188	24.8	32.3
2	2390.00	43.5 AV	54.0	-10.5	3.88 V	188	11.2	32.3
3	*2404.00	103.6 PK			3.88 V	188	71.3	32.3
4	*2404.00	100.9 AV			3.88 V	188	68.6	32.3
5	4808.00	49.7 PK	74.0	-24.3	3.77 V	360	46.2	3.5
6	4808.00	38.3 AV	54.0	-15.7	3.77 V	360	34.8	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 2MBaud PHY	Channel	CH 19 : 2440 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2440.00	110.4 PK			1.26 H	92	78.1	32.3
2	*2440.00	107.8 AV			1.26 H	92	75.5	32.3
3	4880.00	51.1 PK	74.0	-22.9	1.21 H	92	47.6	3.5
4	4880.00	39.8 AV	54.0	-14.2	1.21 H	92	36.3	3.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2440.00	103.8 PK			3.89 V	193	71.5	32.3
2	*2440.00	100.9 AV			3.89 V	193	68.6	32.3
3	4880.00	50.0 PK	74.0	-24.0	3.76 V	355	46.5	3.5
4	4880.00	38.4 AV	54.0	-15.6	3.76 V	355	34.9	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	TX 2MBaud PHY	Channel	CH 38 : 2478 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2478.00	109.9 PK			1.35 H	78	77.6	32.3
2	*2478.00	107.3 AV			1.35 H	78	75.0	32.3
3	2483.50	62.5 PK	74.0	-11.5	1.35 H	78	30.1	32.4
4	2483.50	50.2 AV	54.0	-3.8	1.35 H	78	17.8	32.4
5	4956.00	51.8 PK	74.0	-22.2	1.19 H	87	47.8	4.0
6	4956.00	40.6 AV	54.0	-13.4	1.19 H	87	36.6	4.0

Antenna Polarity & Test Distance : Vertical at 3 m

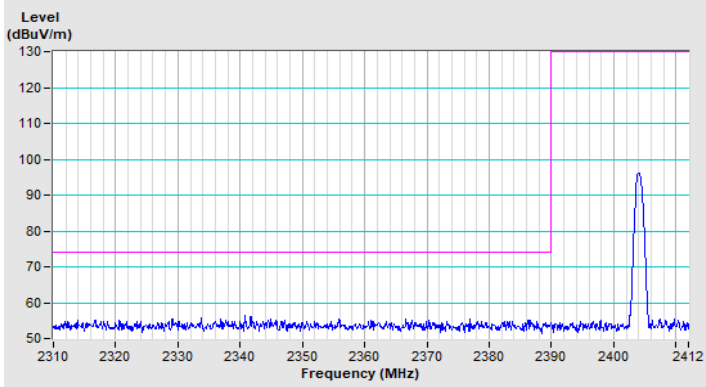
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2478.00	104.2 PK			3.63 V	191	71.9	32.3
2	*2478.00	101.7 AV			3.63 V	191	69.4	32.3
3	2483.50	57.4 PK	74.0	-16.6	3.63 V	191	25.0	32.4
4	2483.50	47.1 AV	54.0	-6.9	3.63 V	191	14.7	32.4
5	4956.00	50.8 PK	74.0	-23.2	3.71 V	360	46.8	4.0
6	4956.00	38.8 AV	54.0	-15.2	3.71 V	360	34.8	4.0

Remarks:

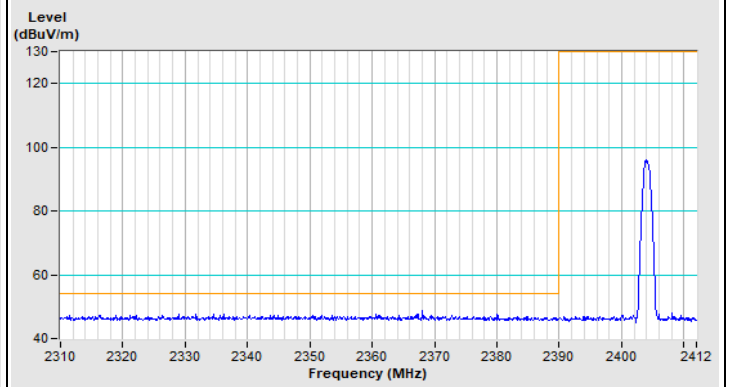
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

Mode A

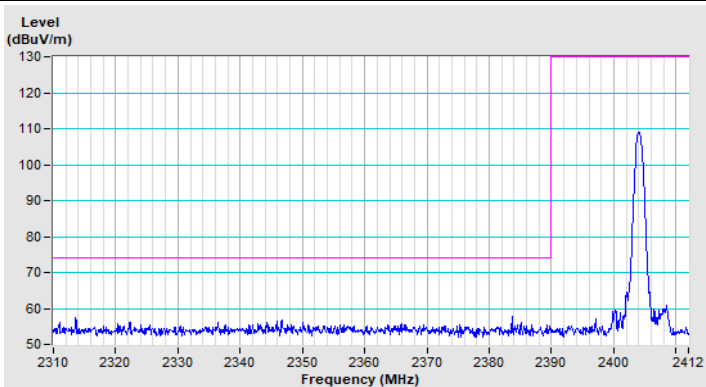
1MBaud PHY with Channel Sounding Channel 2



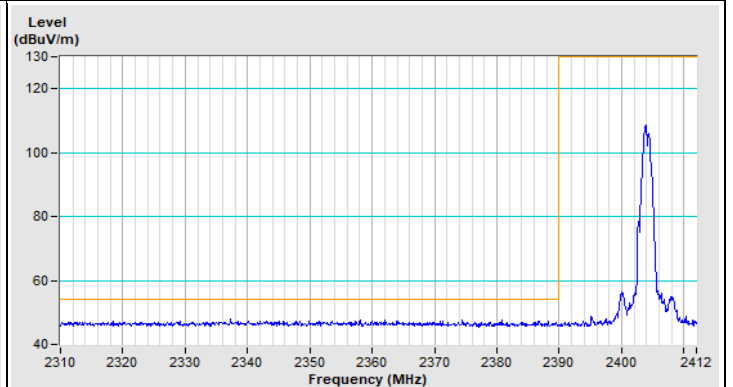
Horizontal (Peak)



Horizontal (Average)

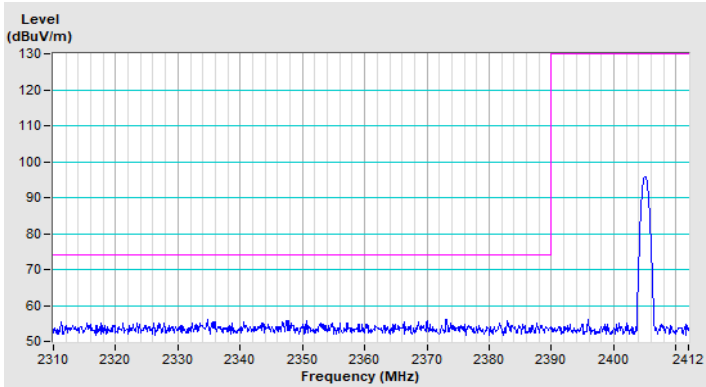


Vertical (Peak)

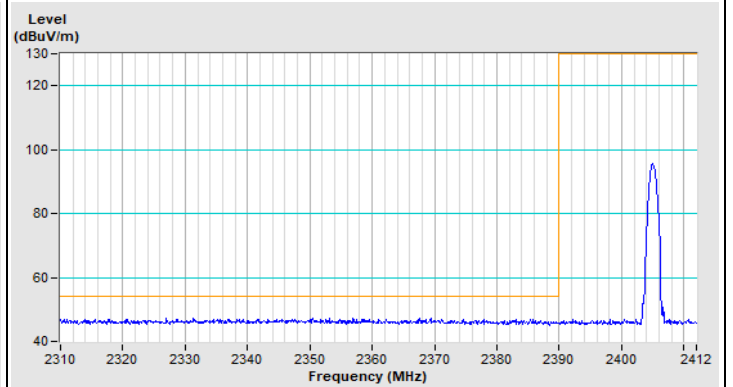


Vertical (Average)

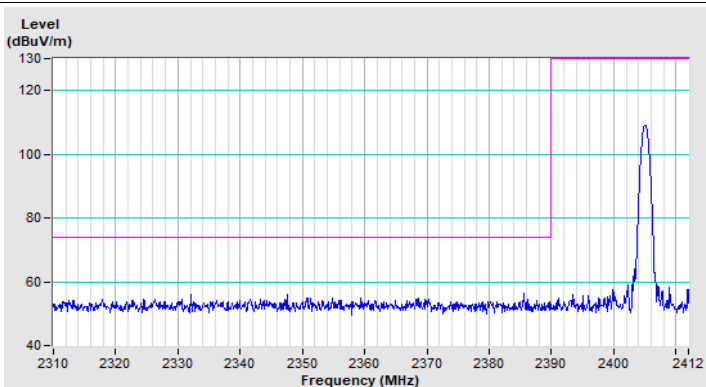
1MBaud PHY with Channel Sounding Channel 3



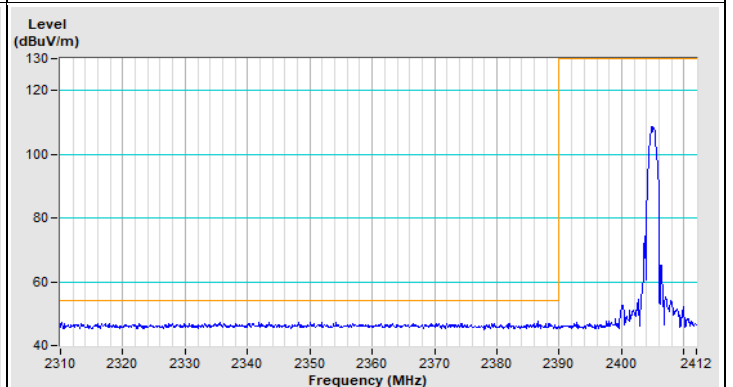
Horizontal (Peak)



Horizontal (Average)

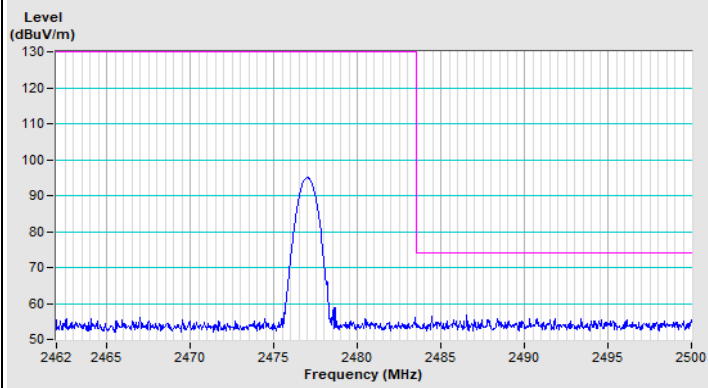


Vertical (Peak)

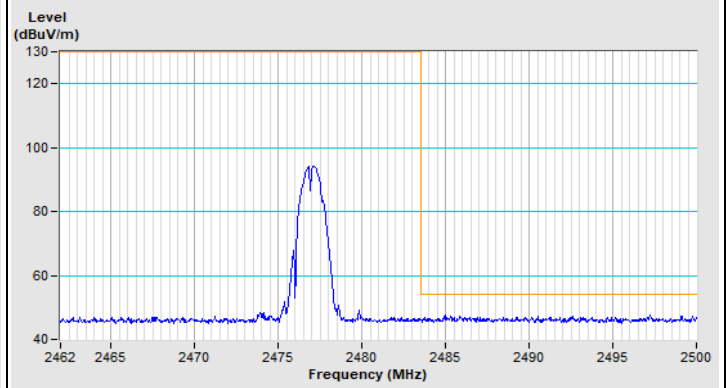


Vertical (Average)

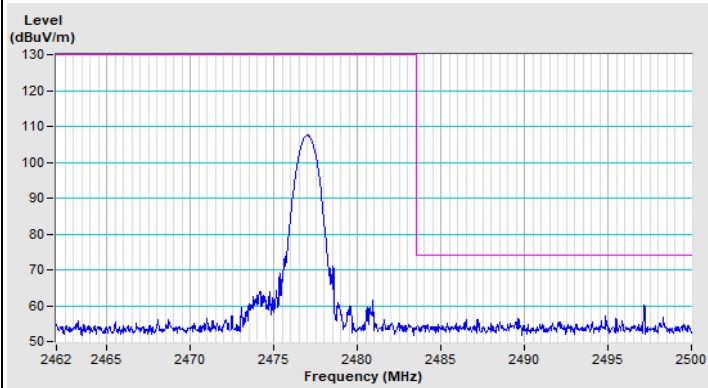
1MBaud PHY with Channel Sounding Channel 75



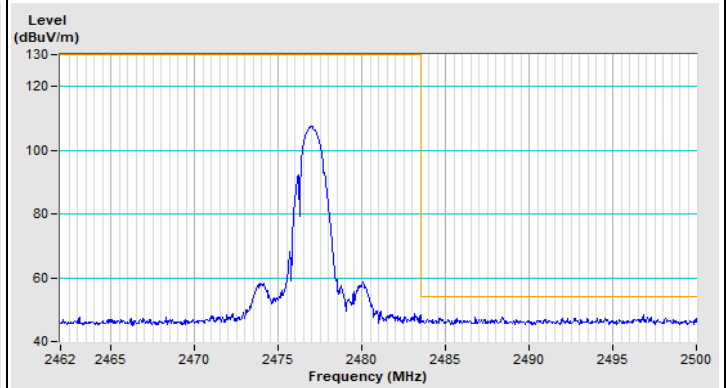
Horizontal (Peak)



Horizontal (Average)

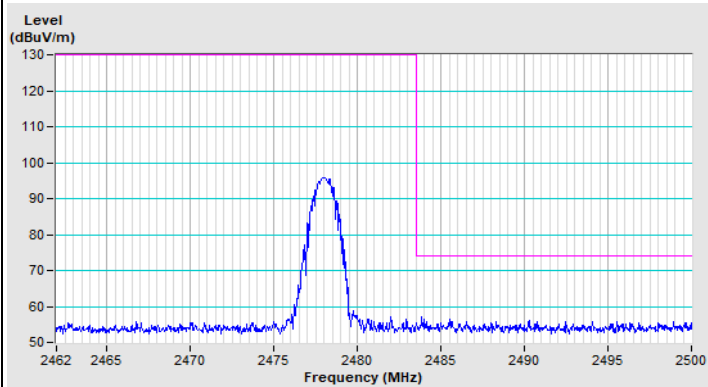


Vertical (Peak)

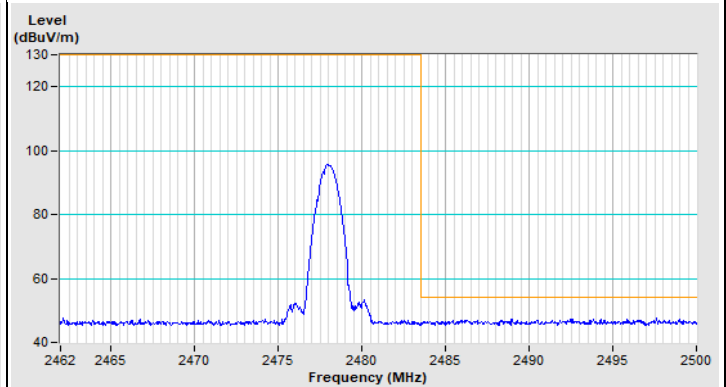


Vertical (Average)

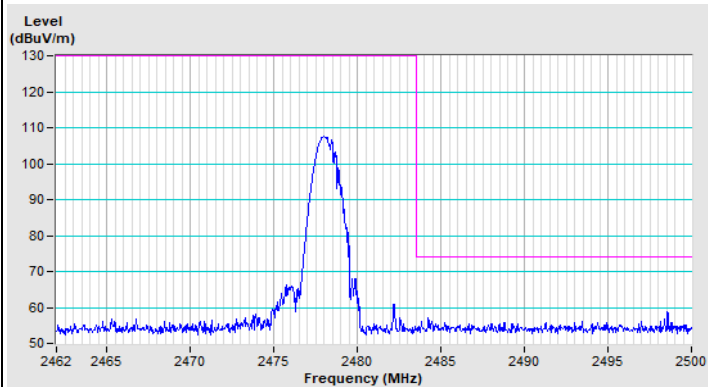
1MBaud PHY with Channel Sounding Channel 76



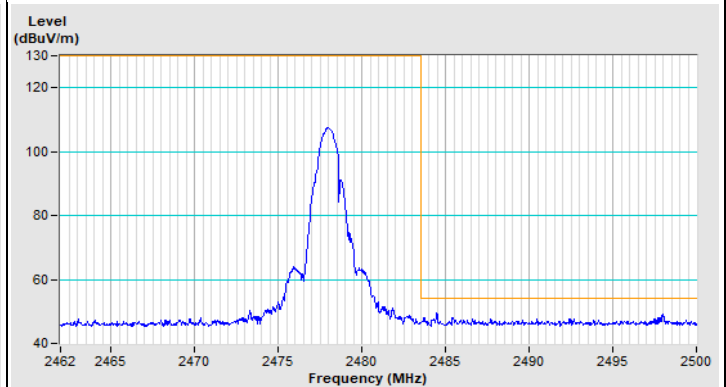
Horizontal (Peak)



Horizontal (Average)

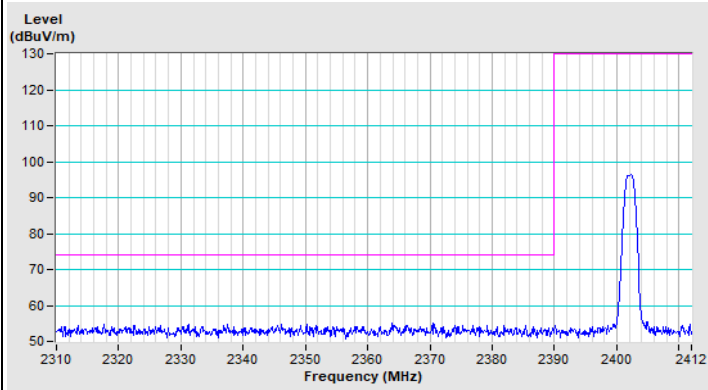


Vertical (Peak)

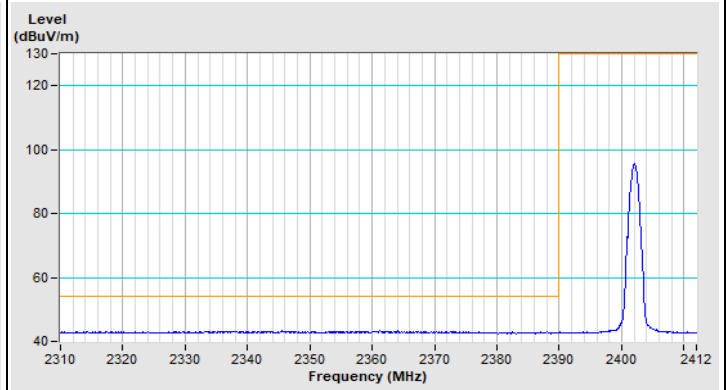


Vertical (Average)

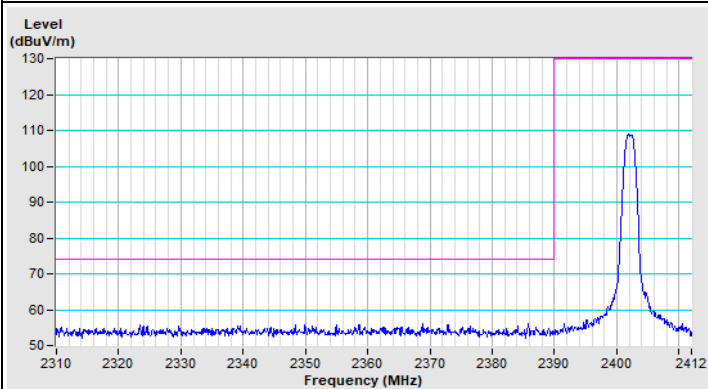
1MBaud PHY with 125kbps Channel 0



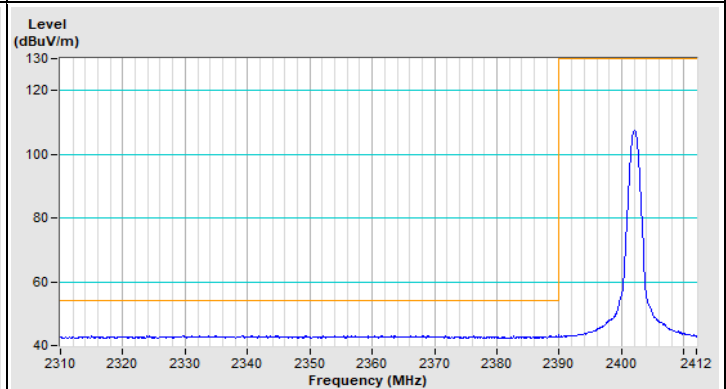
Horizontal (Peak)



Horizontal (Average)

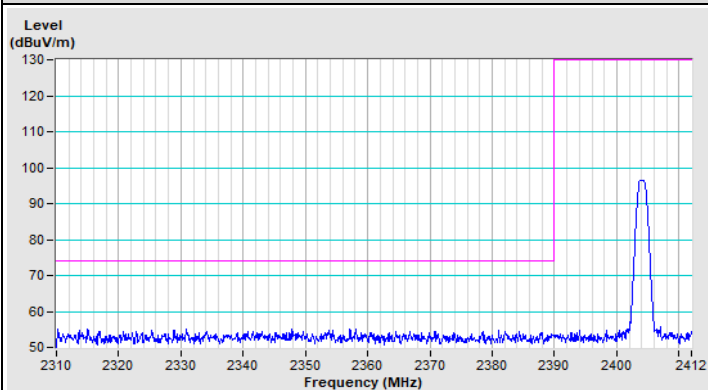


Vertical (Peak)

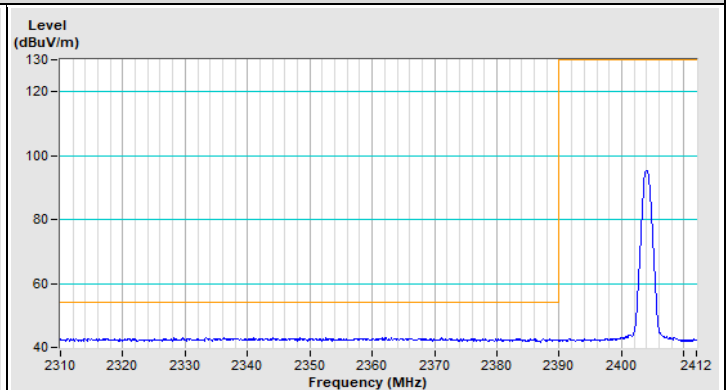


Vertical (Average)

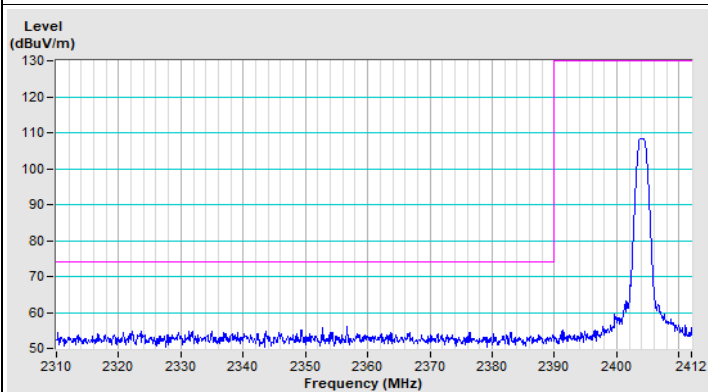
BT-LE 125KLE Channel 1



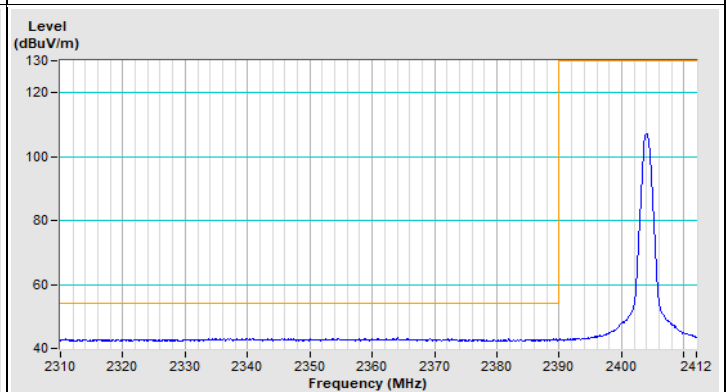
Horizontal (Peak)



Horizontal (Average)

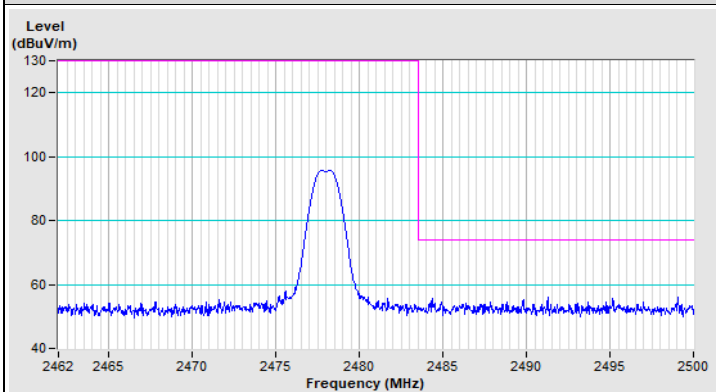


Vertical (Peak)

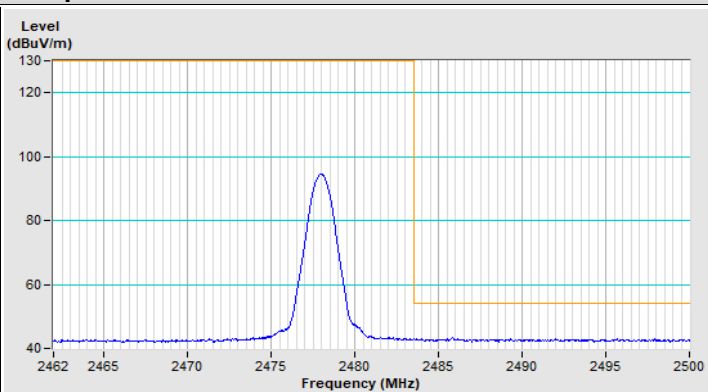


Vertical (Average)

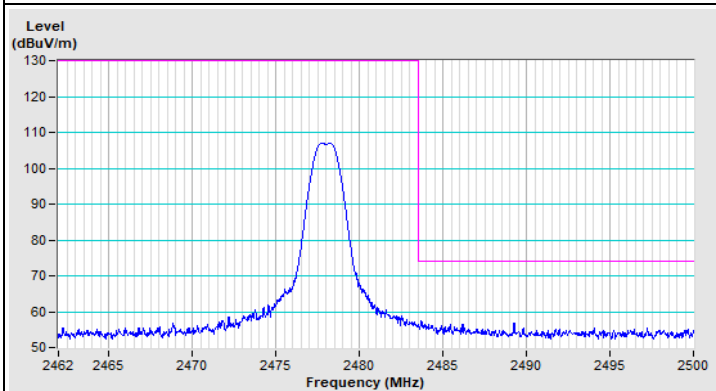
1MBaud PHY with 125kbps Channel 38



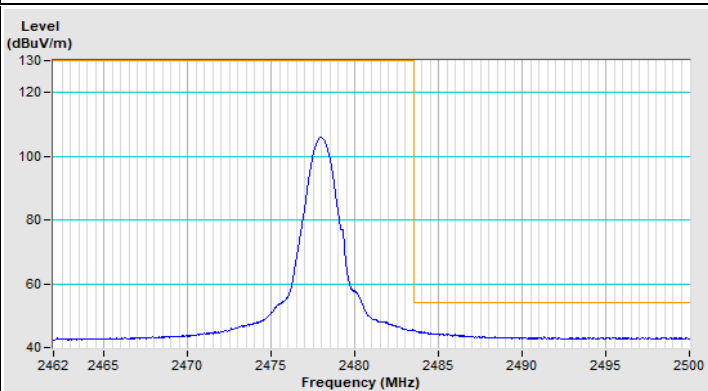
Horizontal (Peak)



Horizontal (Average)

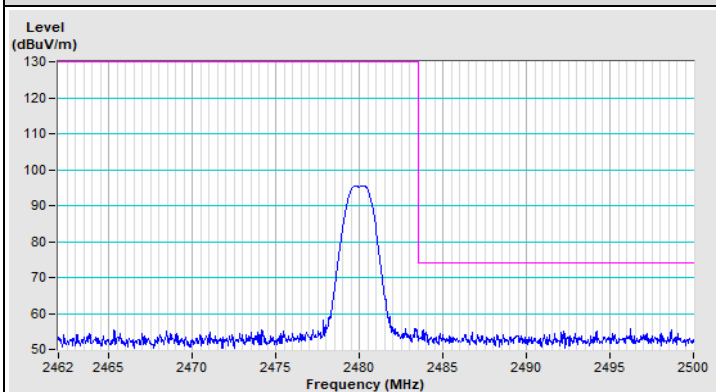


Vertical (Peak)

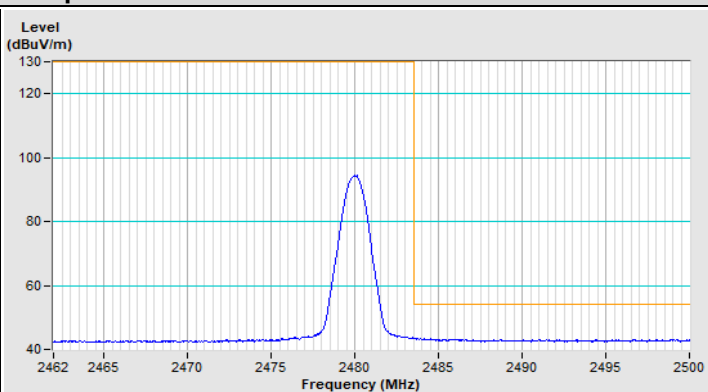


Vertical (Average)

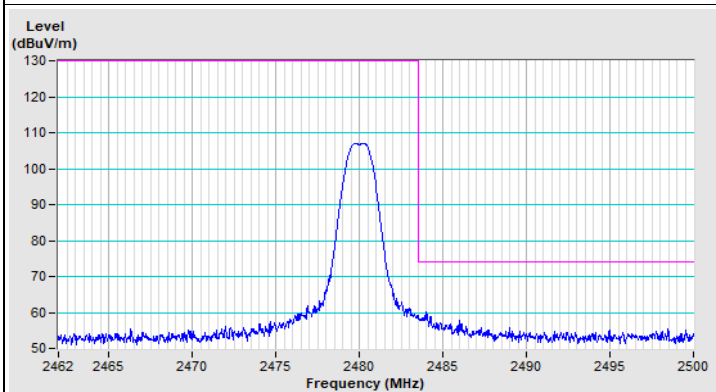
1MBaud PHY with 125kbps Channel 39



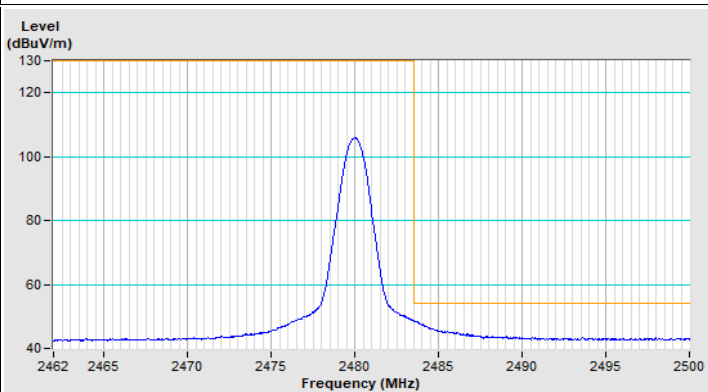
Horizontal (Peak)



Horizontal (Average)

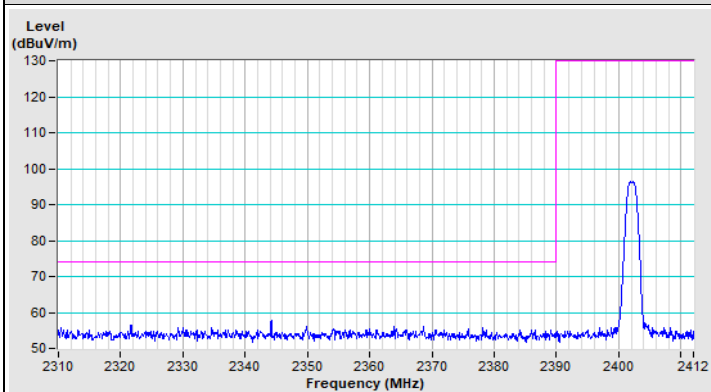


Vertical (Peak)

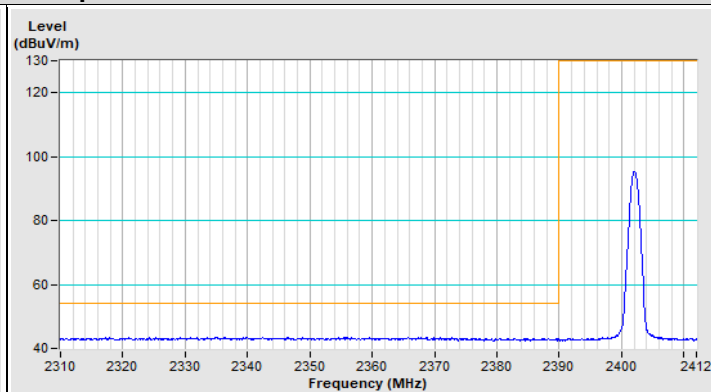


Vertical (Average)

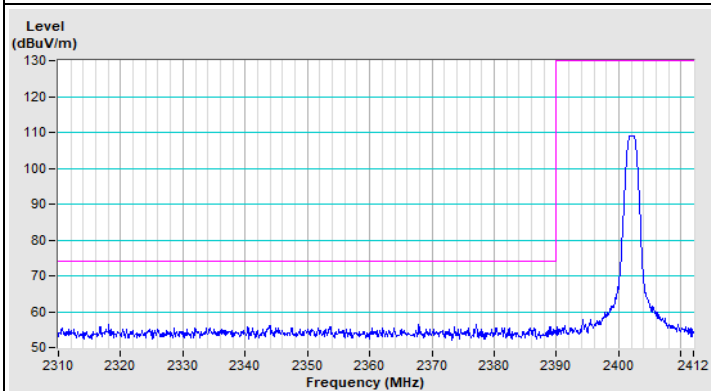
1MBaud PHY with 500kbps Channel 0



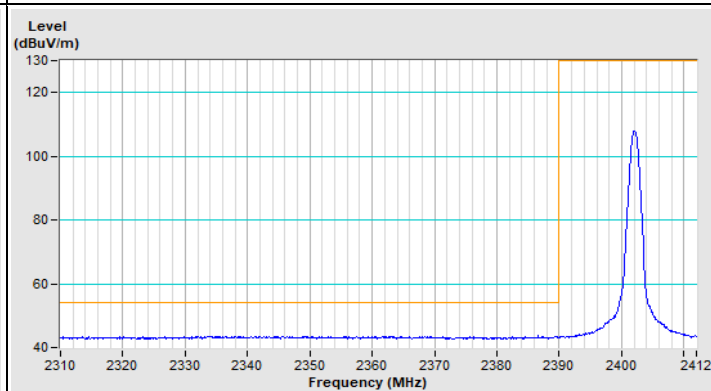
Horizontal (Peak)



Horizontal (Average)

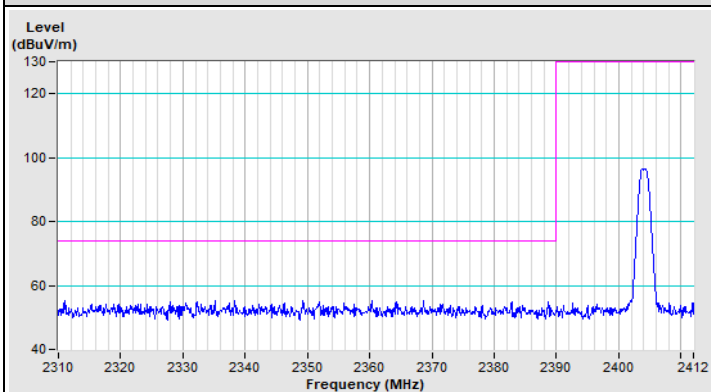


Vertical (Peak)

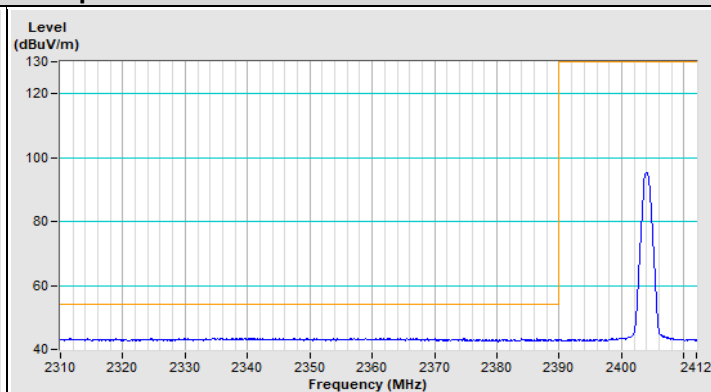


Vertical (Average)

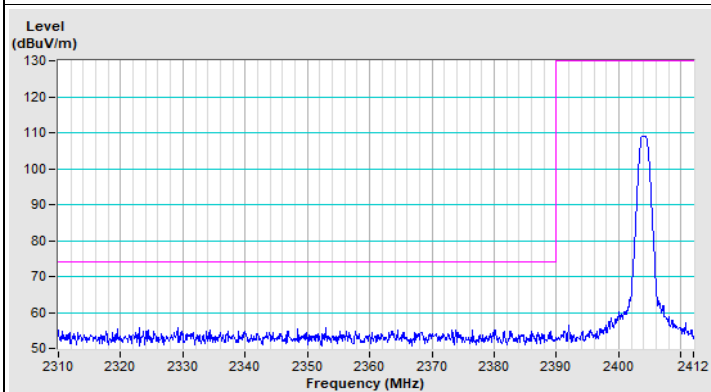
1MBaud PHY with 500kbps Channel 1



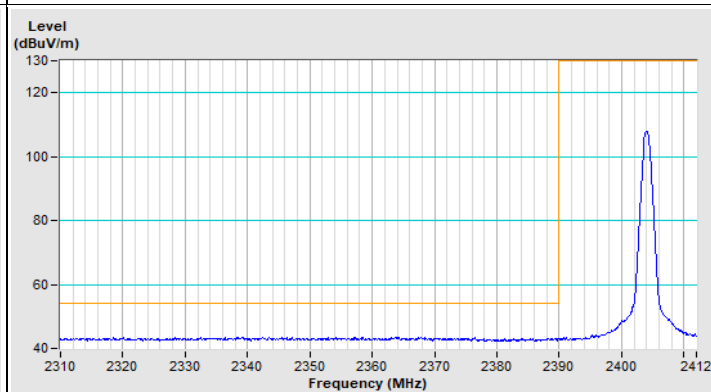
Horizontal (Peak)



Horizontal (Average)

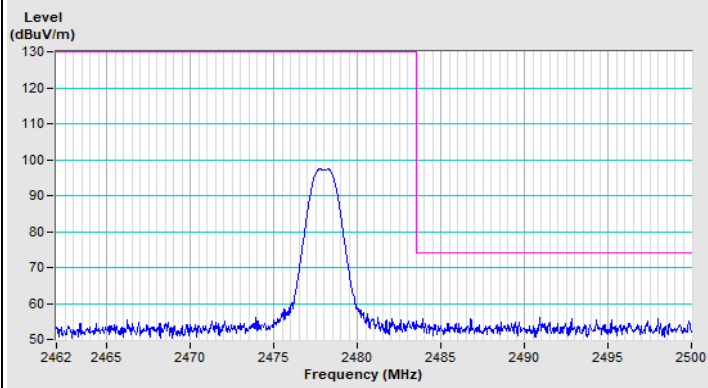


Vertical (Peak)

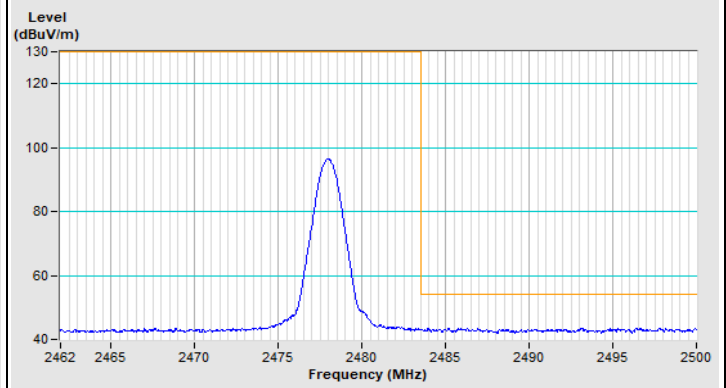


Vertical (Average)

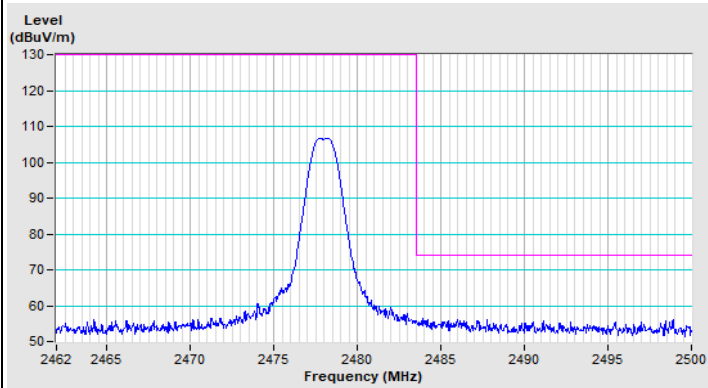
1MBaud PHY with 500kbps Channel 38



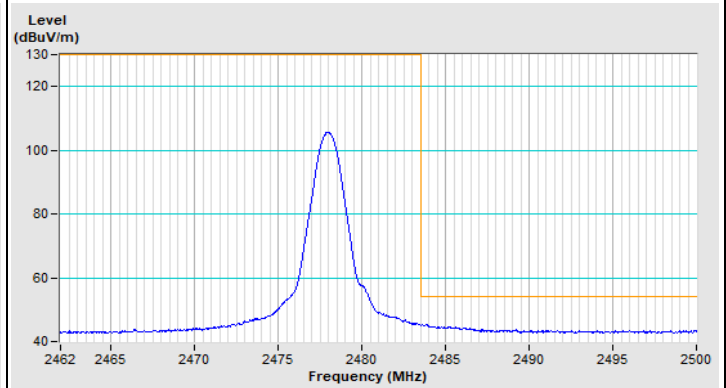
Horizontal (Peak)



Horizontal (Average)

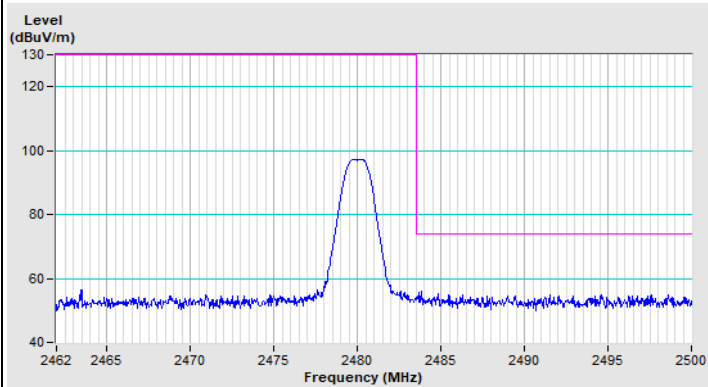


Vertical (Peak)

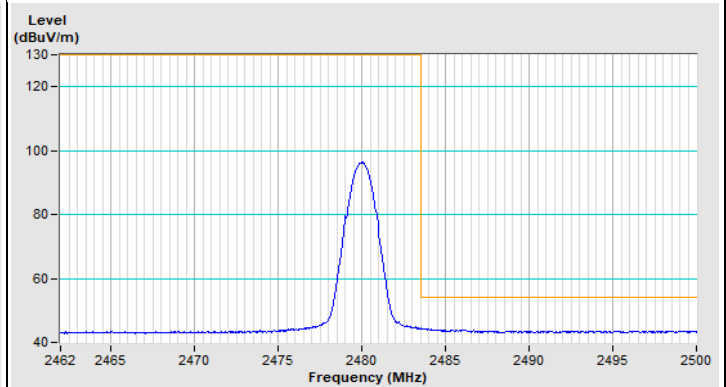


Vertical (Average)

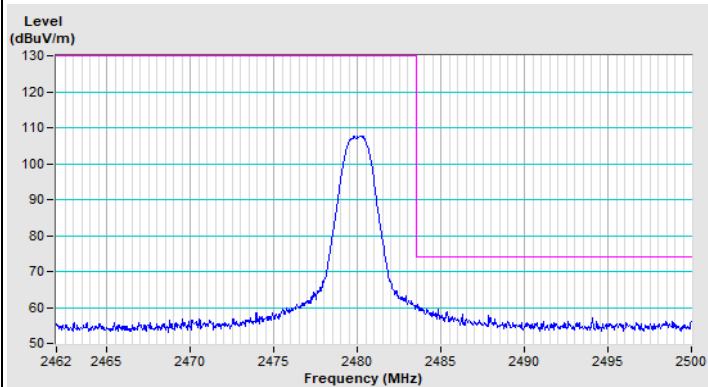
1MBaud PHY with 500kbps Channel 39



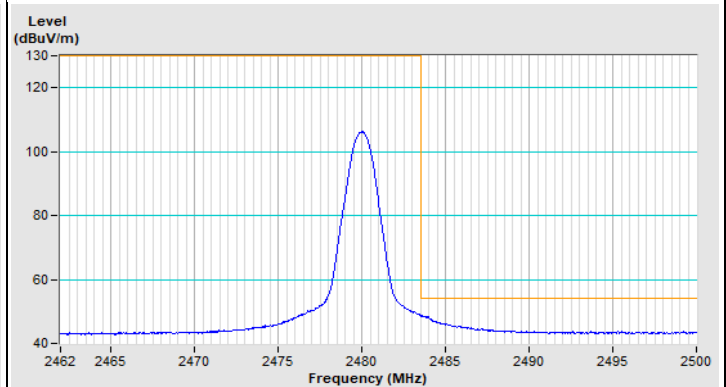
Horizontal (Peak)



Horizontal (Average)

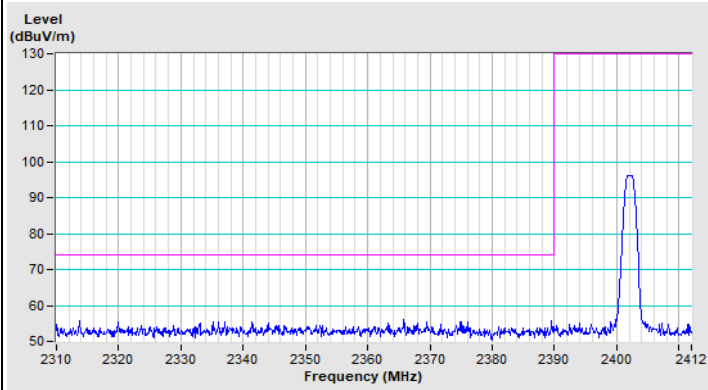


Vertical (Peak)

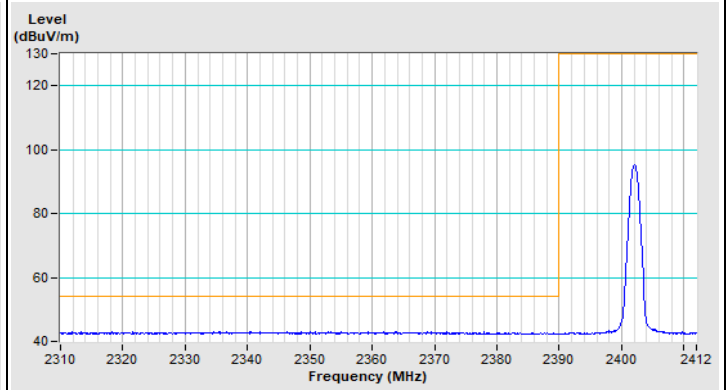


Vertical (Average)

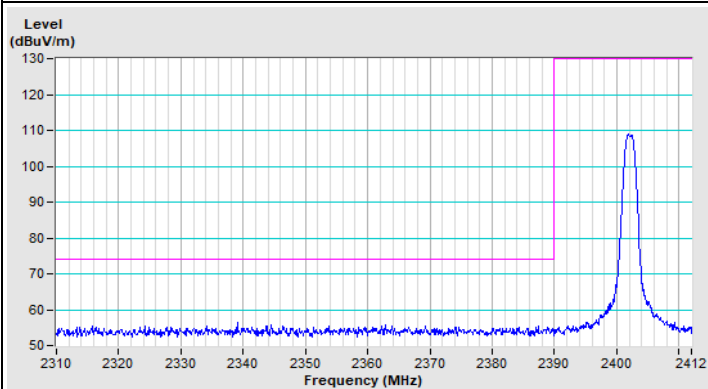
1MBaud PHY with 1Mbps Channel 0



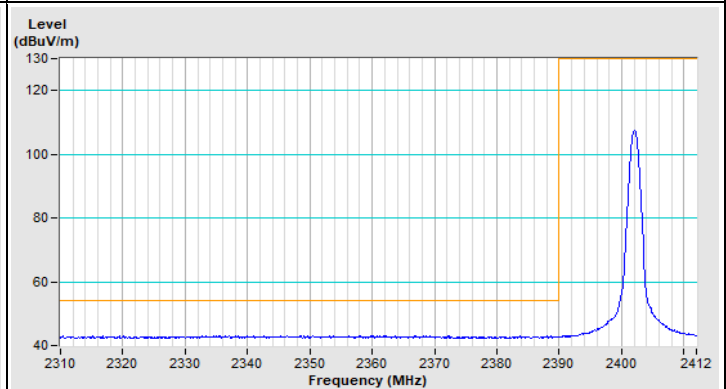
Horizontal (Peak)



Horizontal (Average)

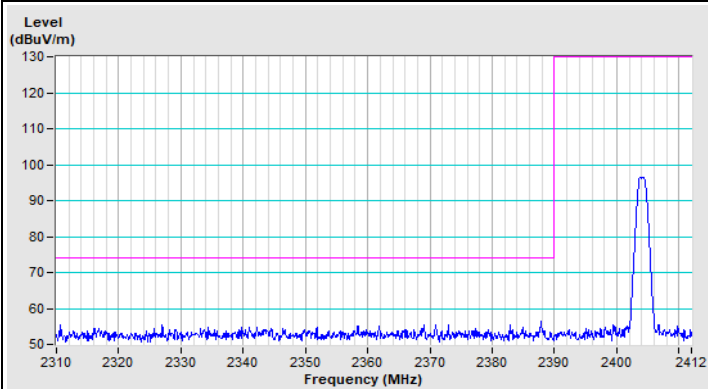


Vertical (Peak)

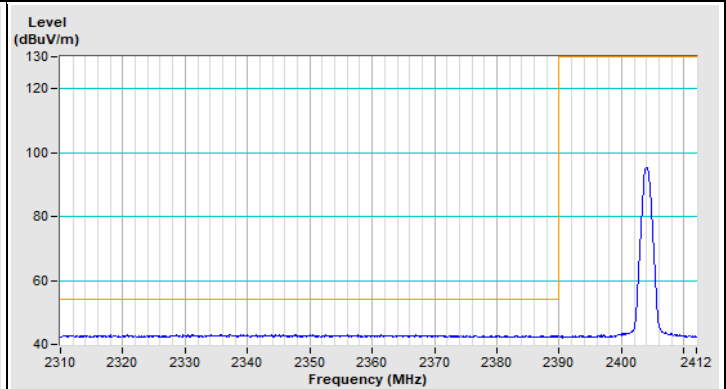


Vertical (Average)

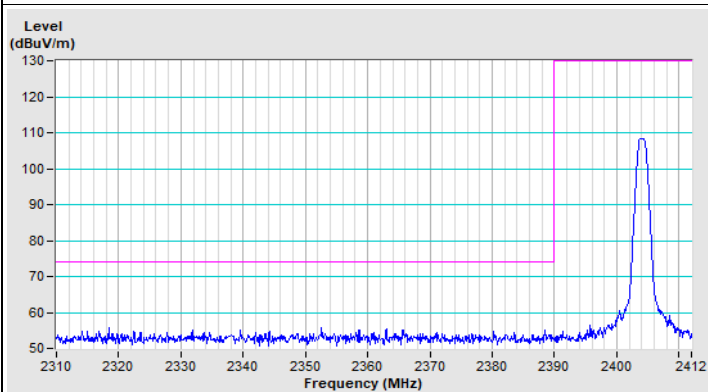
1MBaud PHY with 1Mbps Channel 1



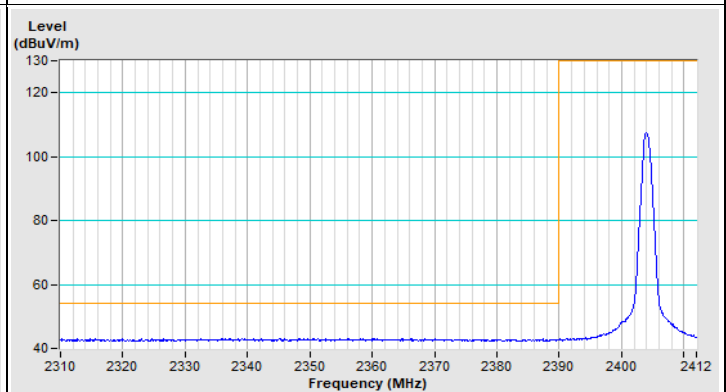
Horizontal (Peak)



Horizontal (Average)

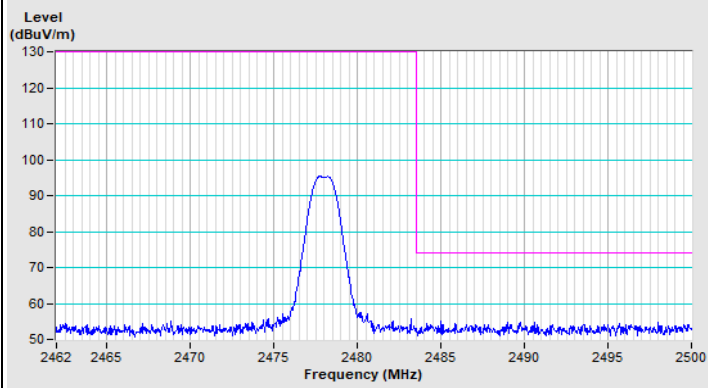


Vertical (Peak)

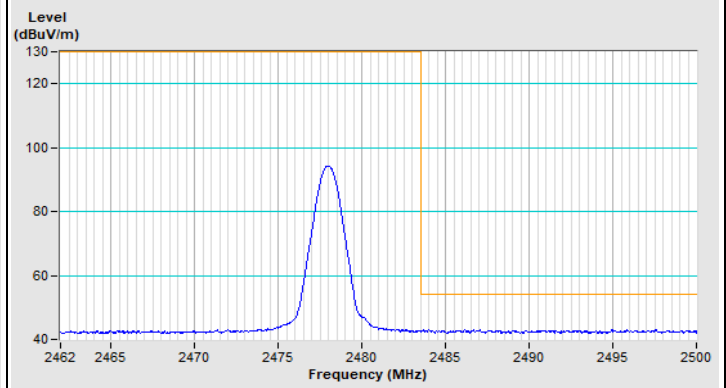


Vertical (Average)

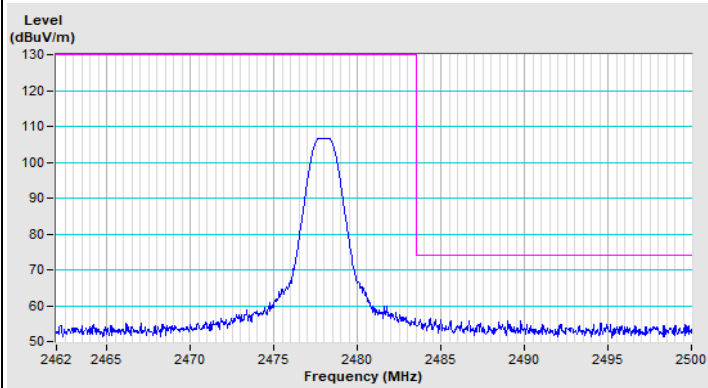
1MBaud PHY with 1Mbps Channel 38



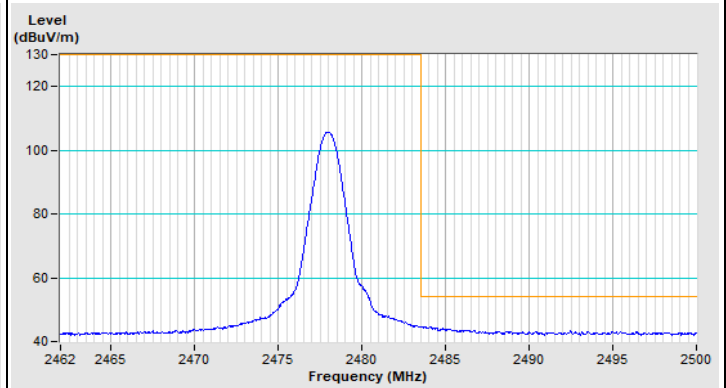
Horizontal (Peak)



Horizontal (Average)

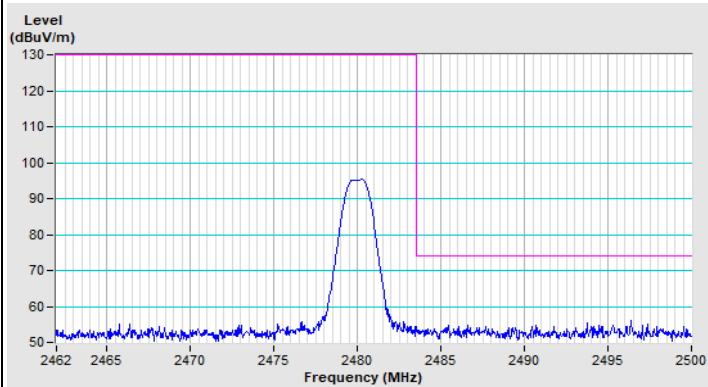


Vertical (Peak)

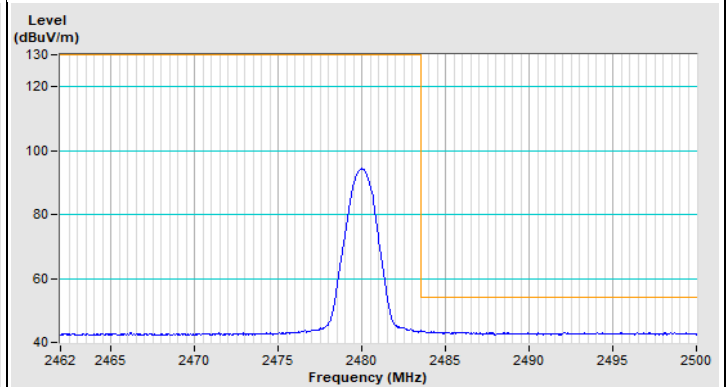


Vertical (Average)

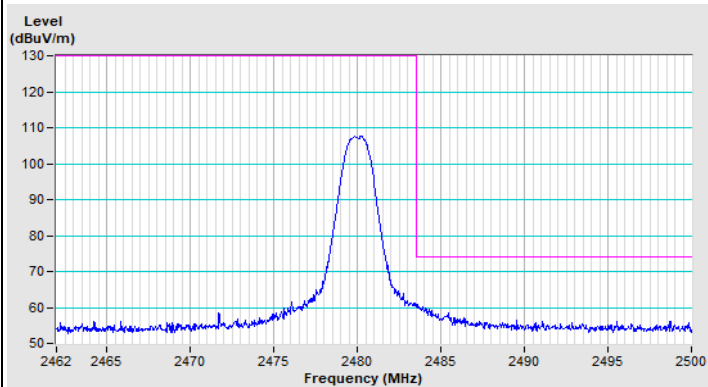
1MBaud PHY with 1Mbps Channel 39



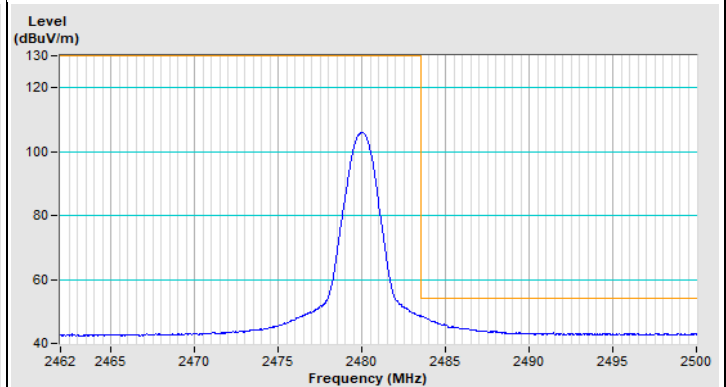
Horizontal (Peak)



Horizontal (Average)

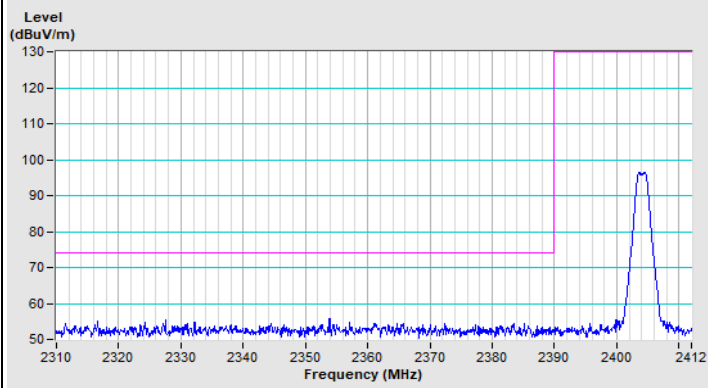


Vertical (Peak)

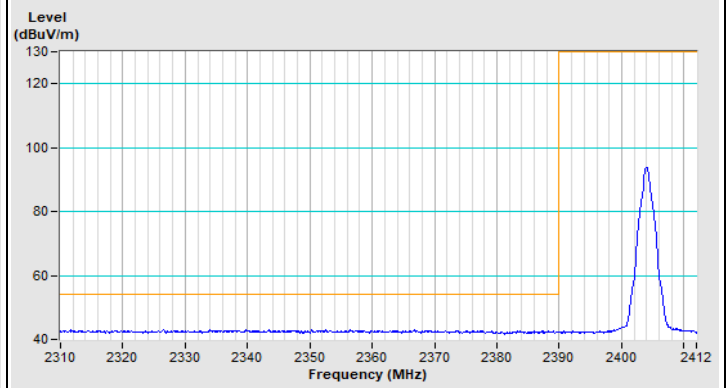


Vertical (Average)

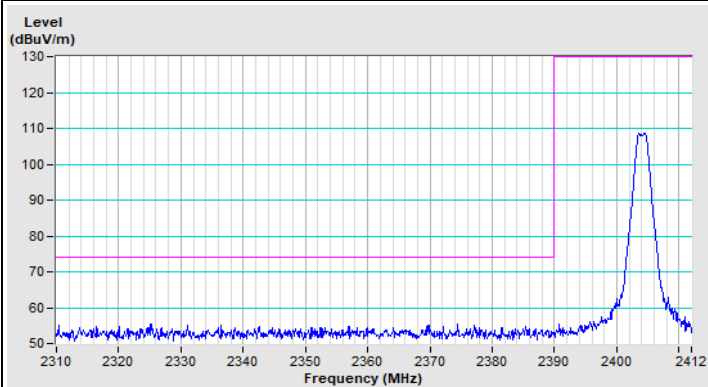
2MBaud PHY Channel 1



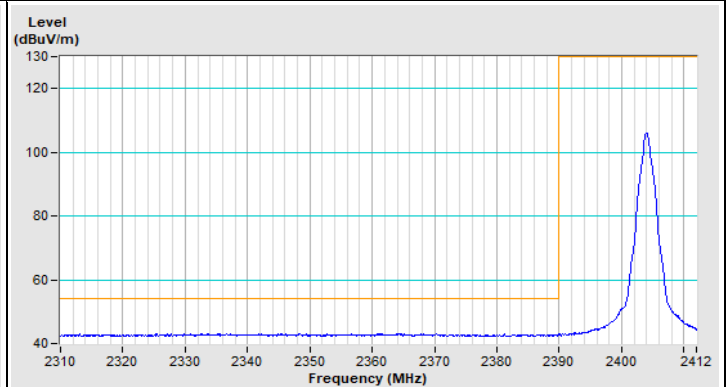
Horizontal (Peak)



Horizontal (Average)

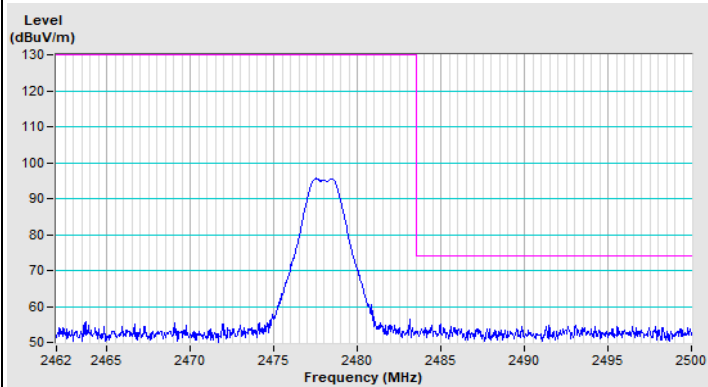


Vertical (Peak)

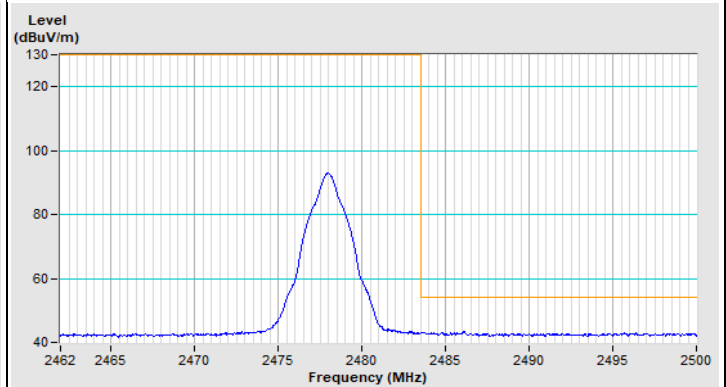


Vertical (Average)

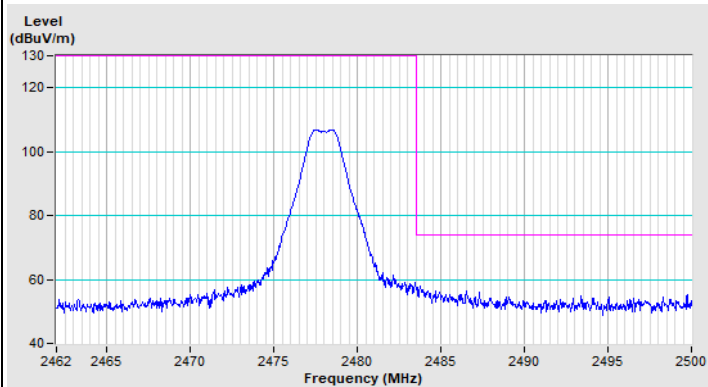
2MBaud PHY Channel 38



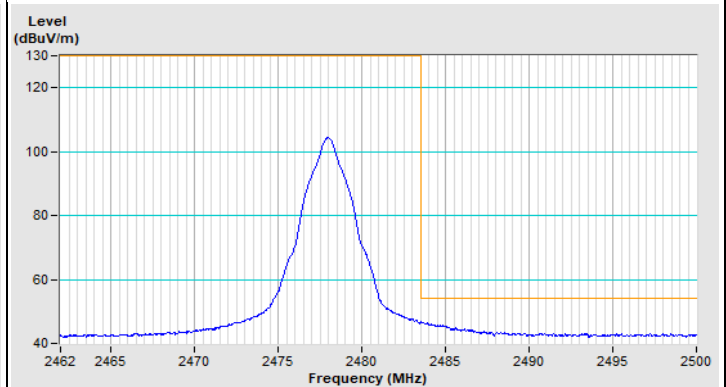
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)

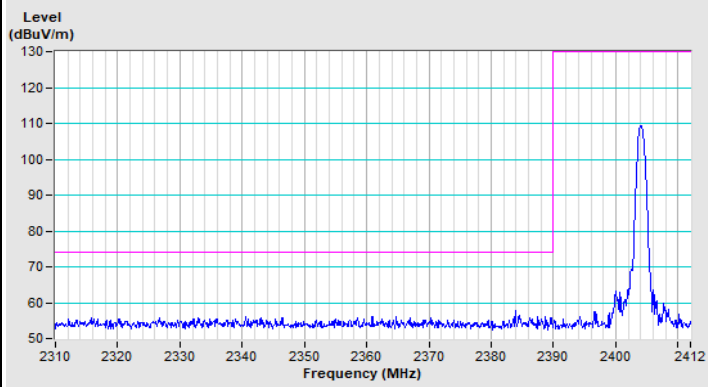


Vertical (Average)

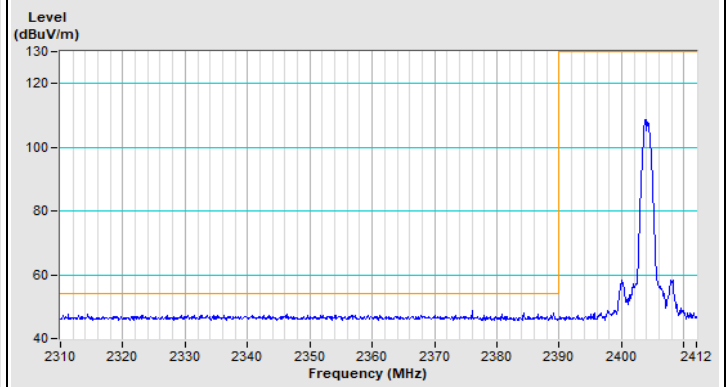


Mode B

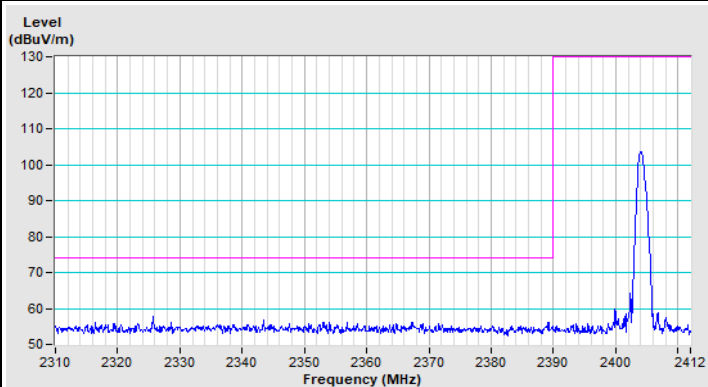
1MBaud PHY with Channel Sounding Channel 2



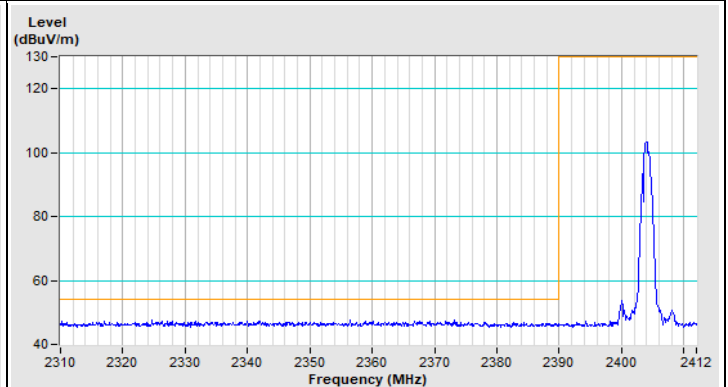
Horizontal (Peak)



Horizontal (Average)

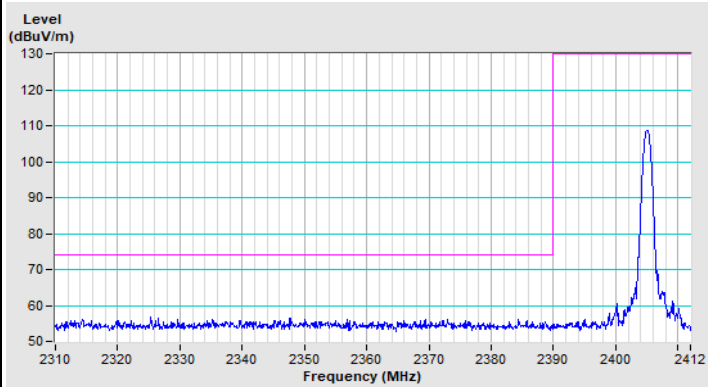


Vertical (Peak)

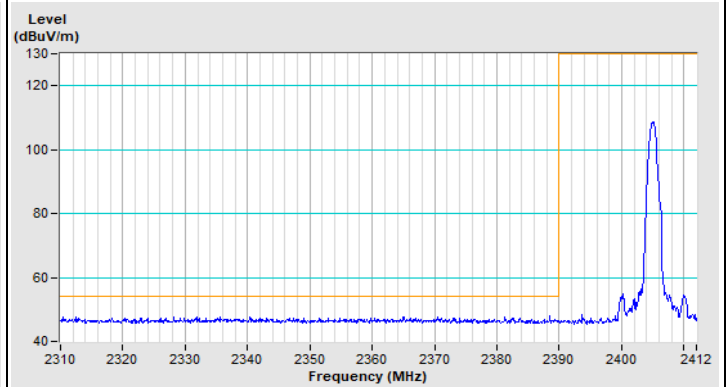


Vertical (Average)

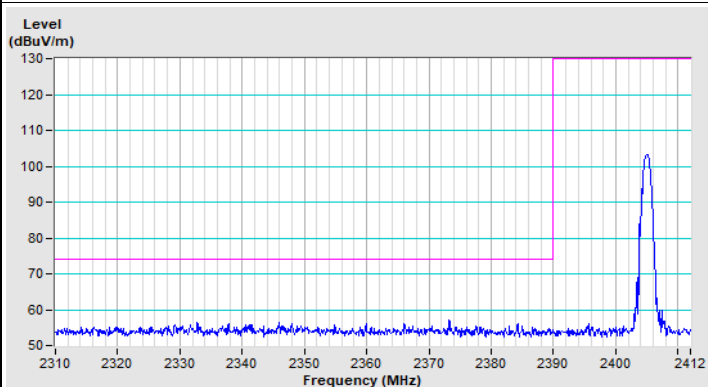
1MBaud PHY with Channel Sounding Channel 3



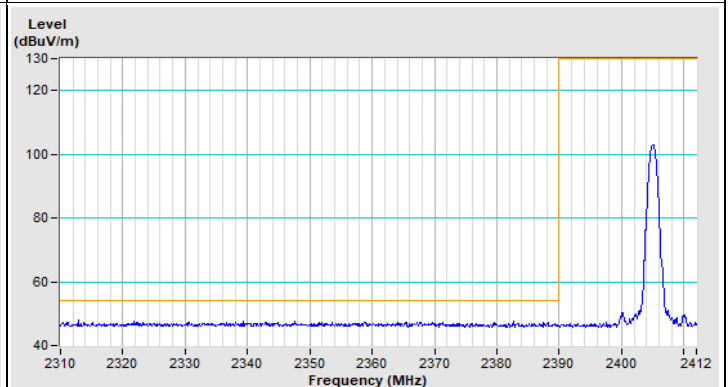
Horizontal (Peak)



Horizontal (Average)

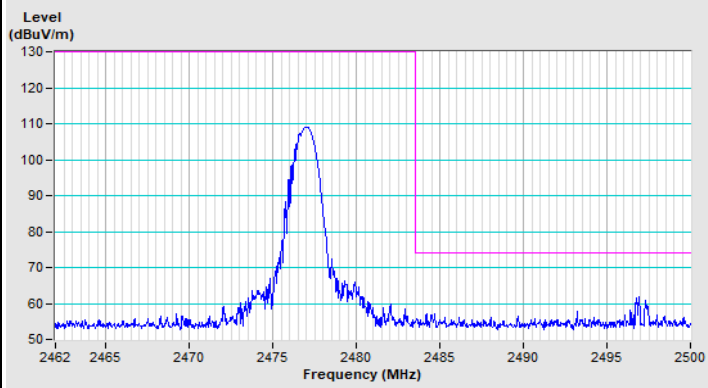


Vertical (Peak)

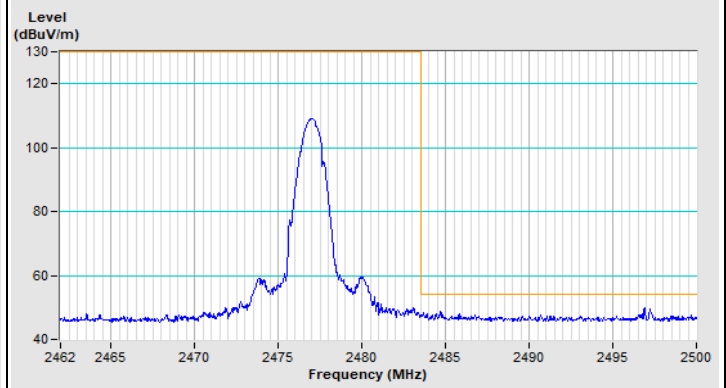


Vertical (Average)

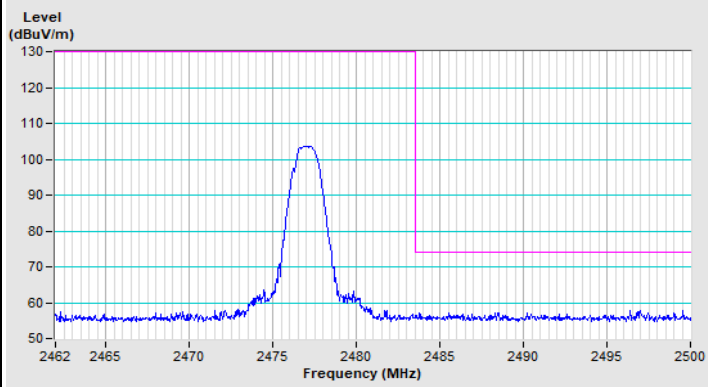
1MBaud PHY with Channel Sounding Channel 75



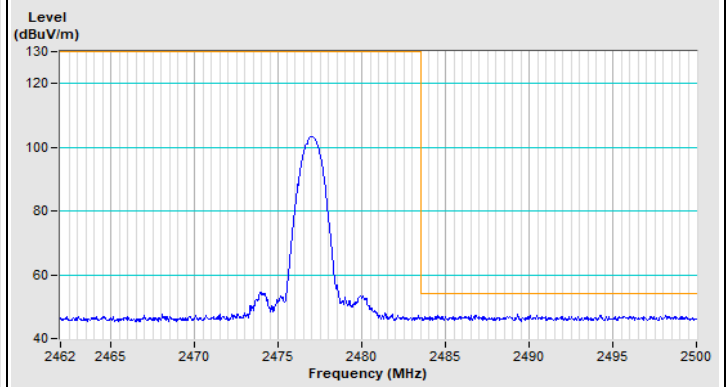
Horizontal (Peak)



Horizontal (Average)

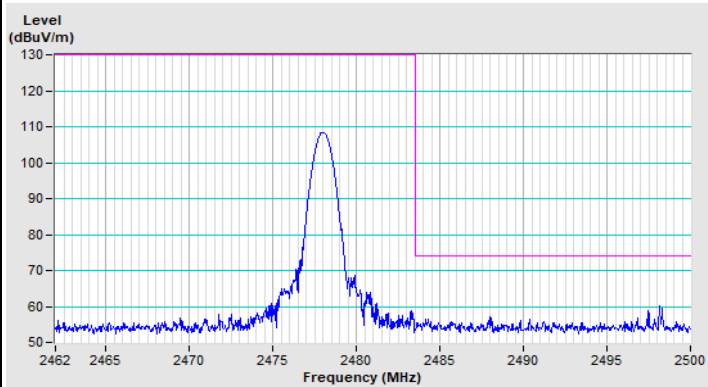


Vertical (Peak)

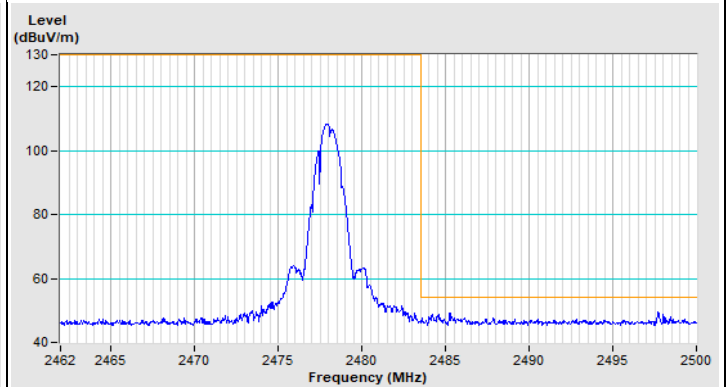


Vertical (Average)

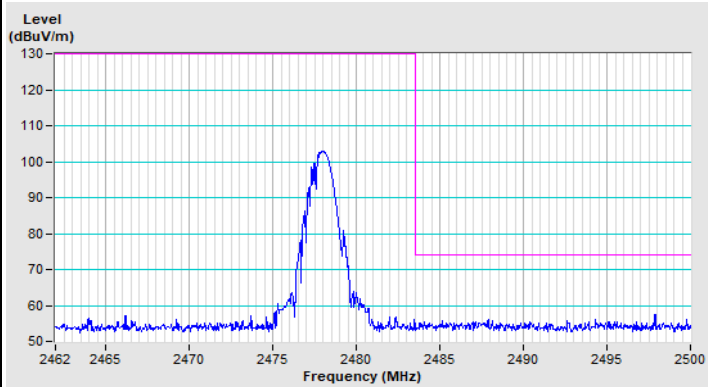
1MBaud PHY with Channel Sounding Channel 76



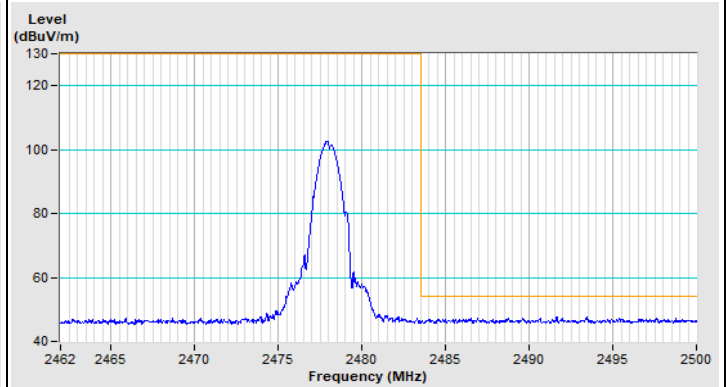
Horizontal (Peak)



Horizontal (Average)

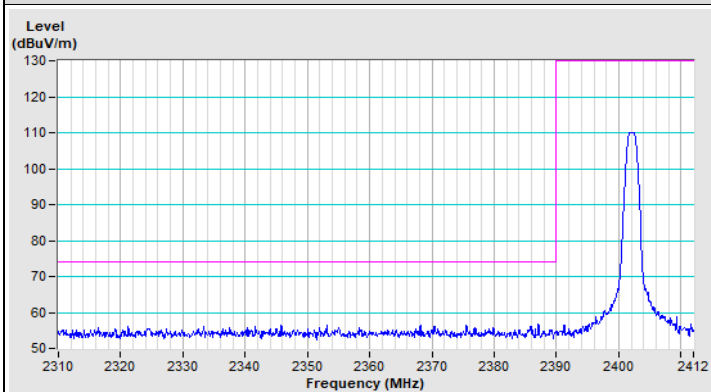


Vertical (Peak)

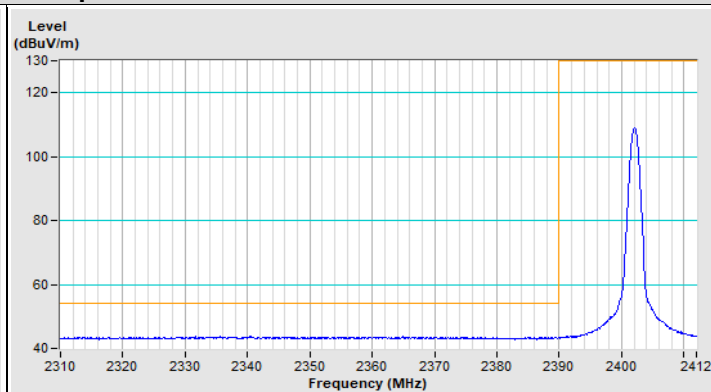


Vertical (Average)

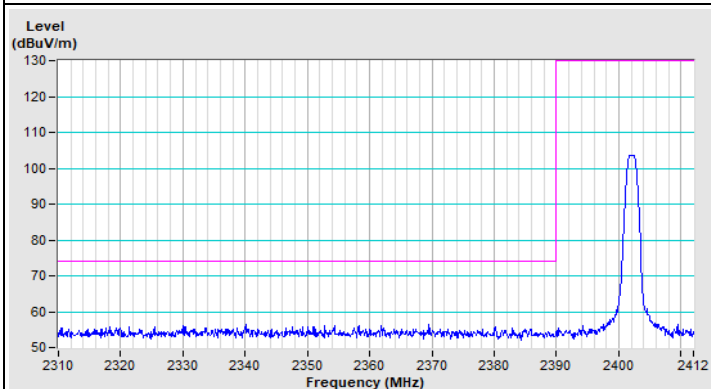
1MBaud PHY with 125kbps Channel 0



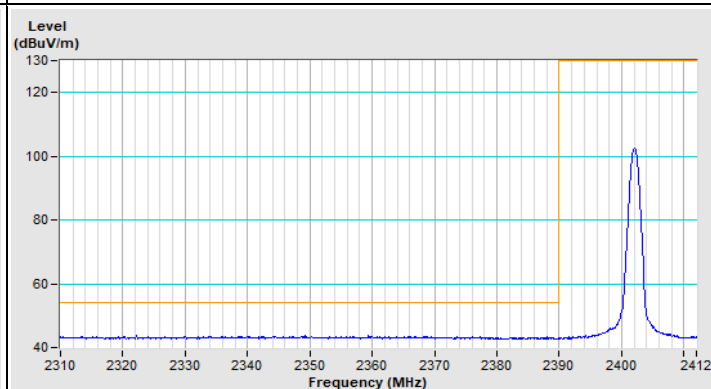
Horizontal (Peak)



Horizontal (Average)

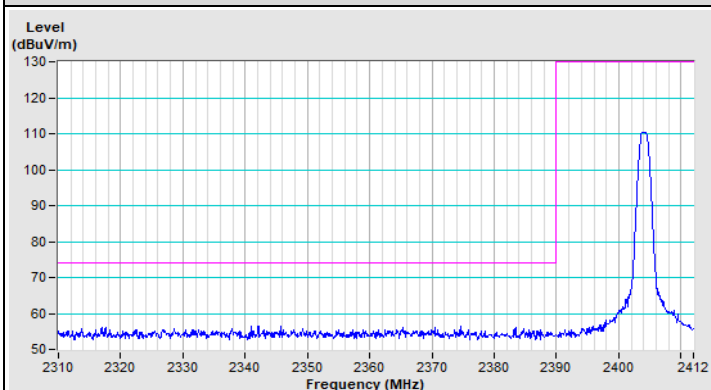


Vertical (Peak)

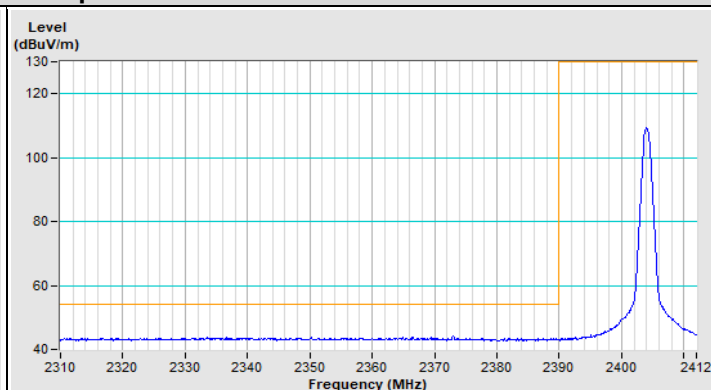


Vertical (Average)

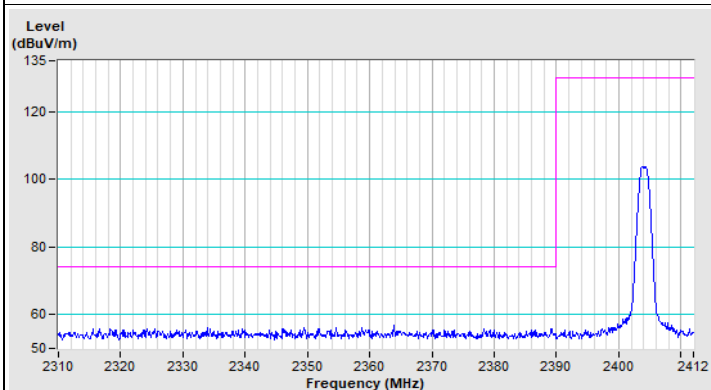
1MBaud PHY with 125kbps Channel 1



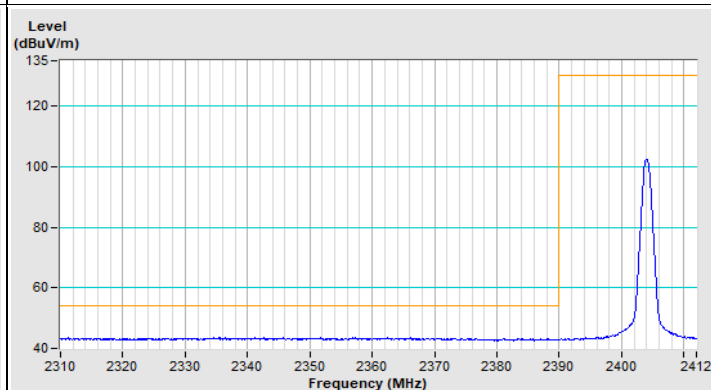
Horizontal (Peak)



Horizontal (Average)

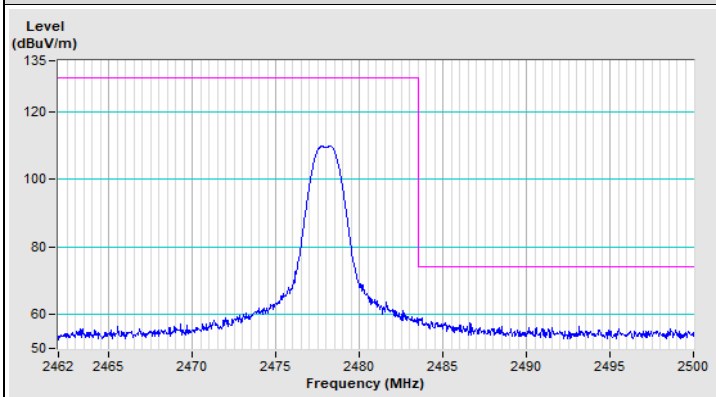


Vertical (Peak)

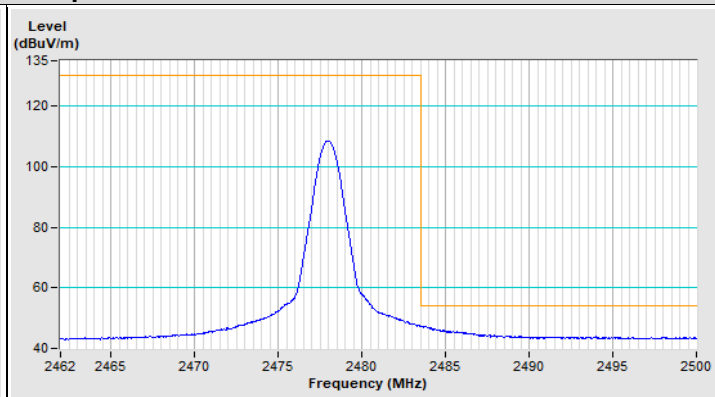


Vertical (Average)

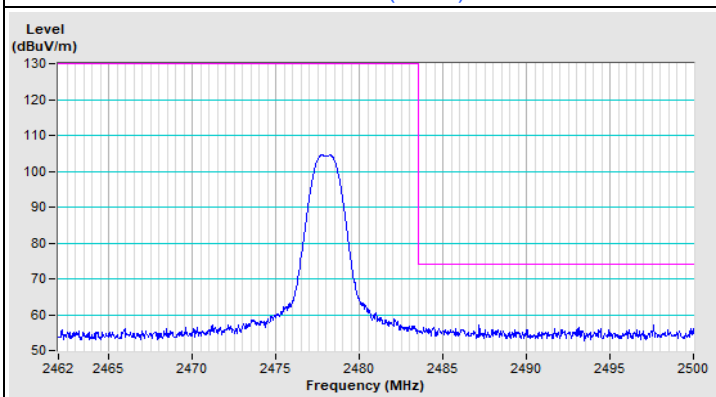
1MBaud PHY with 125kbps Channel 38



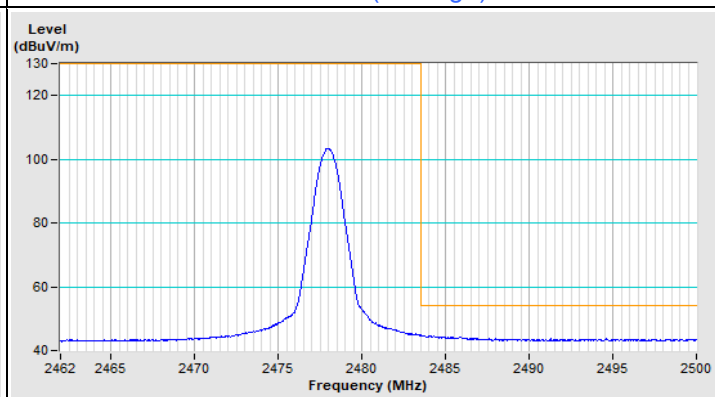
Horizontal (Peak)



Horizontal (Average)

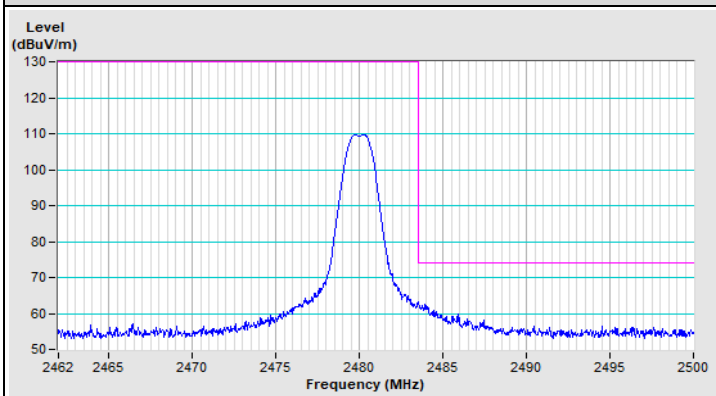


Vertical (Peak)

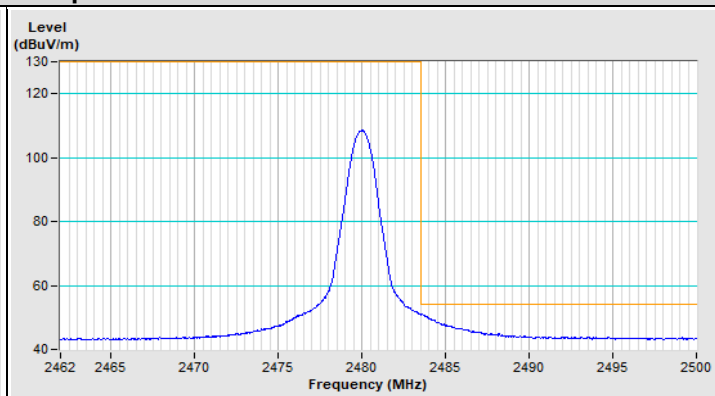


Vertical (Average)

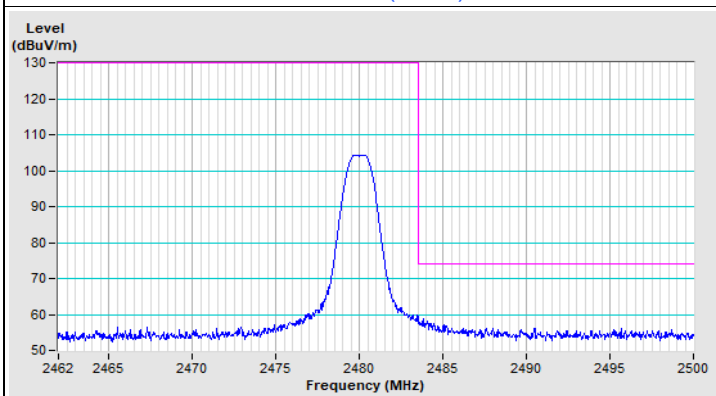
1MBaud PHY with 125kbps Channel 39



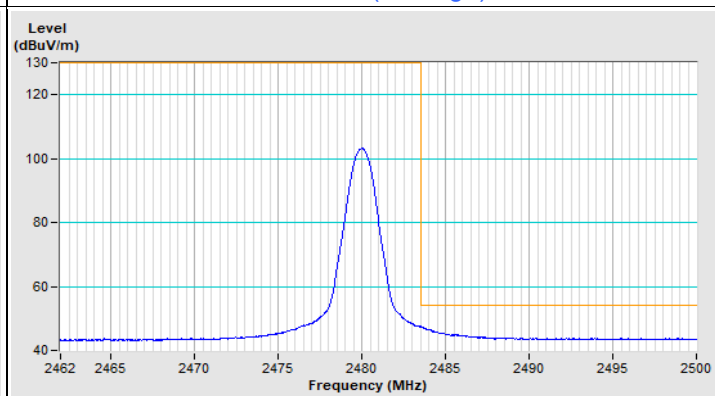
Horizontal (Peak)



Horizontal (Average)

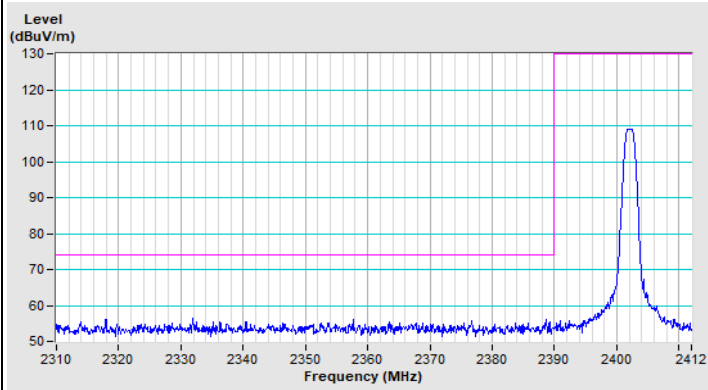


Vertical (Peak)

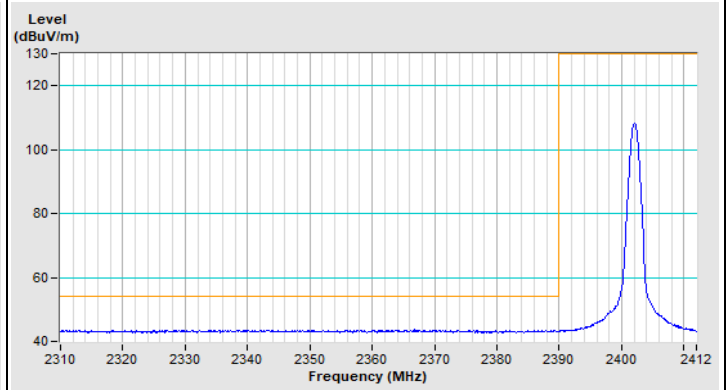


Vertical (Average)

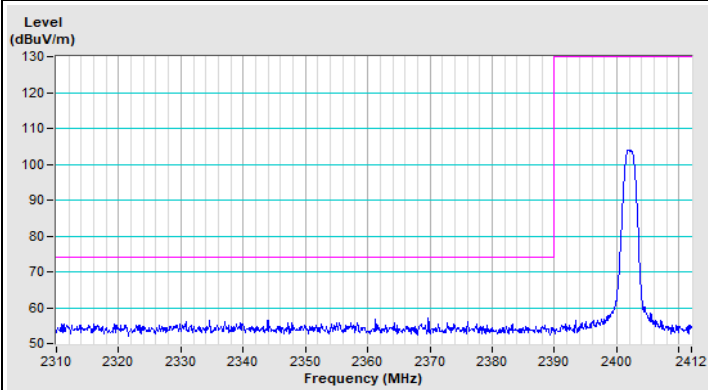
1MBaud PHY with 500kbps Channel 0



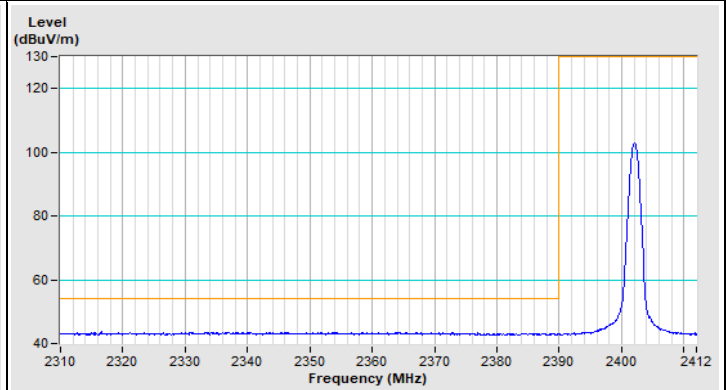
Horizontal (Peak)



Horizontal (Average)

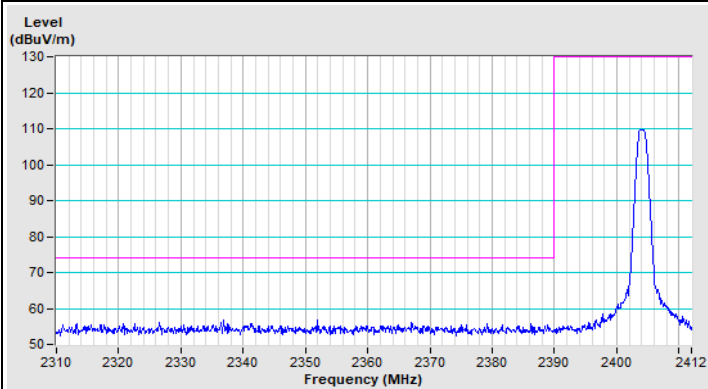


Vertical (Peak)

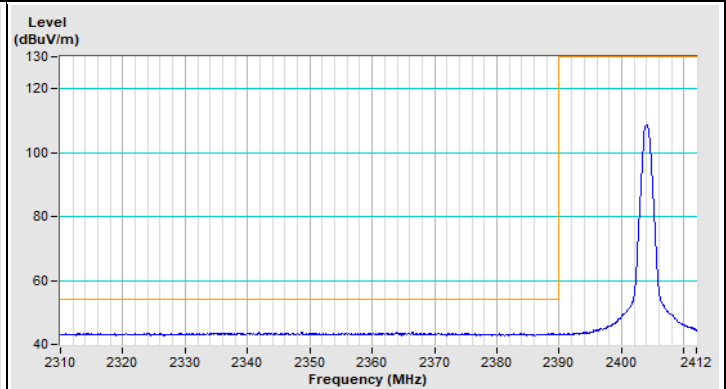


Vertical (Average)

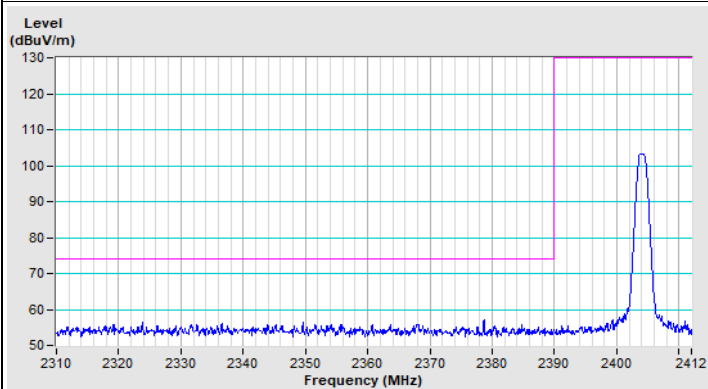
1MBaud PHY with 500kbps Channel 1



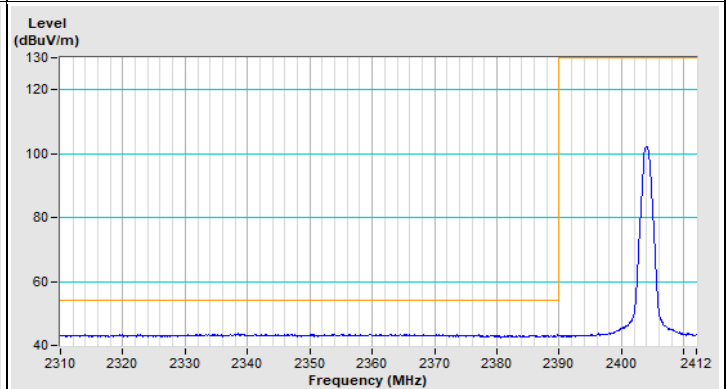
Horizontal (Peak)



Horizontal (Average)

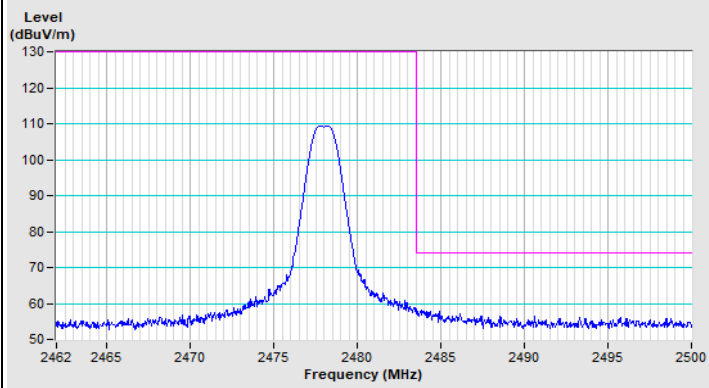


Vertical (Peak)

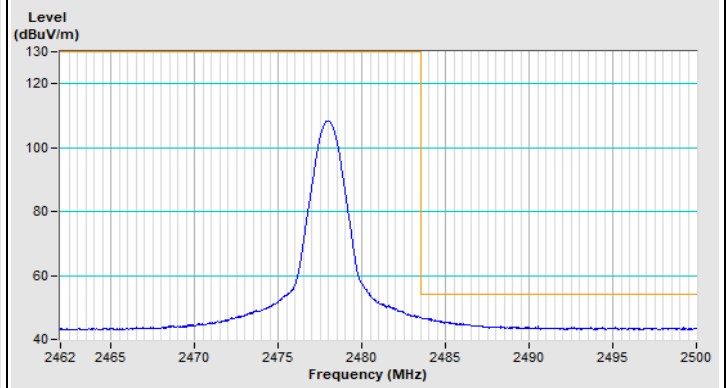


Vertical (Average)

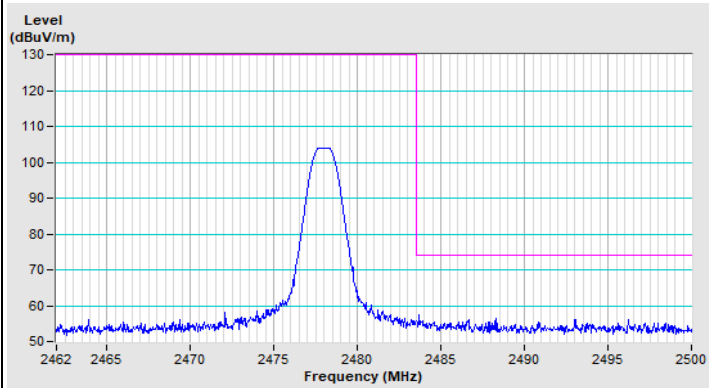
1MBaud PHY with 500kbps Channel 38



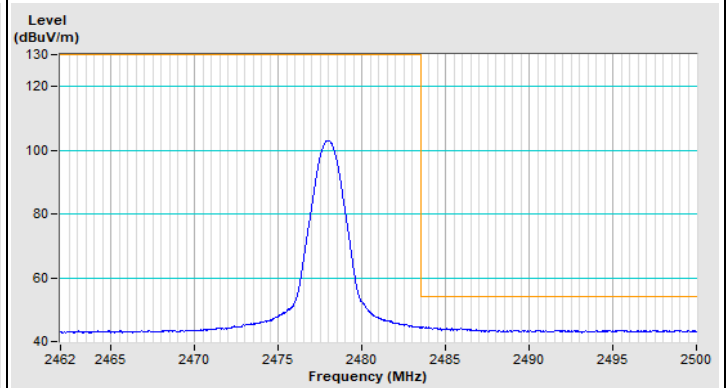
Horizontal (Peak)



Horizontal (Average)

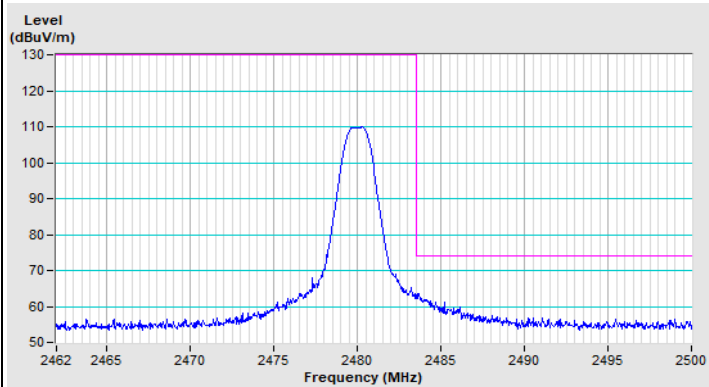


Vertical (Peak)

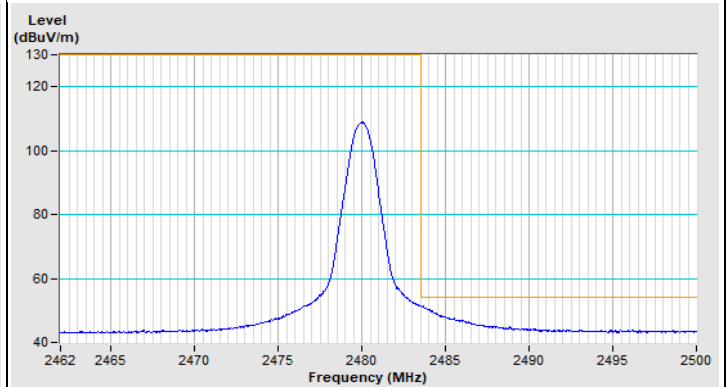


Vertical (Average)

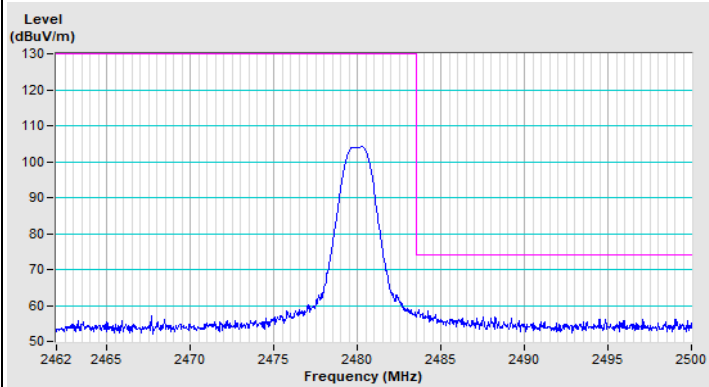
1MBaud PHY with 500kbps Channel 39



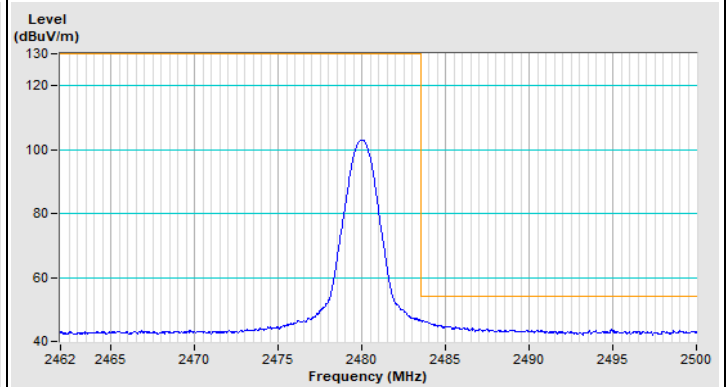
Horizontal (Peak)



Horizontal (Average)

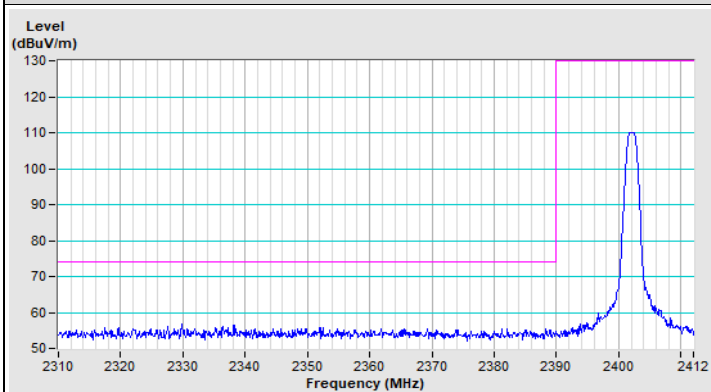


Vertical (Peak)

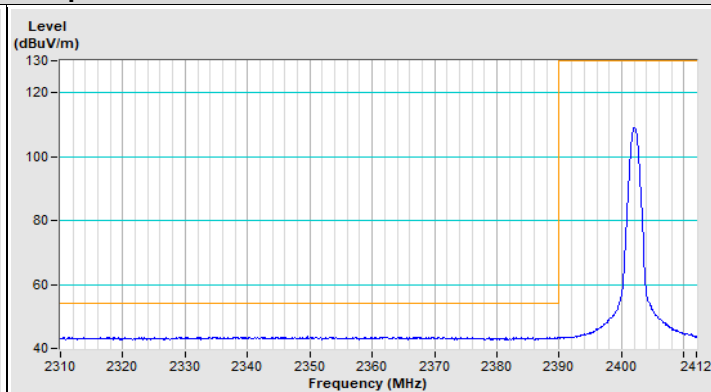


Vertical (Average)

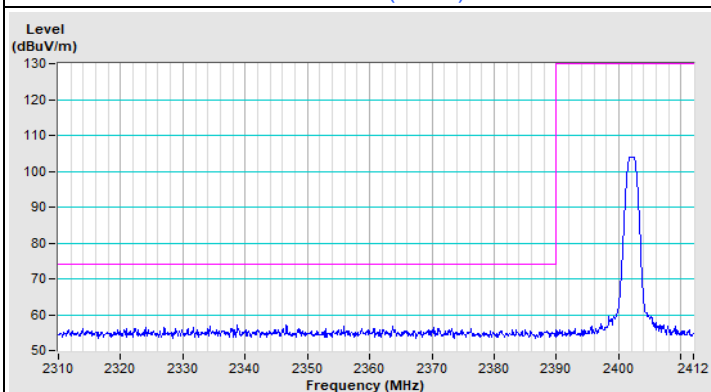
1MBaud PHY with 1Mbps Channel 0



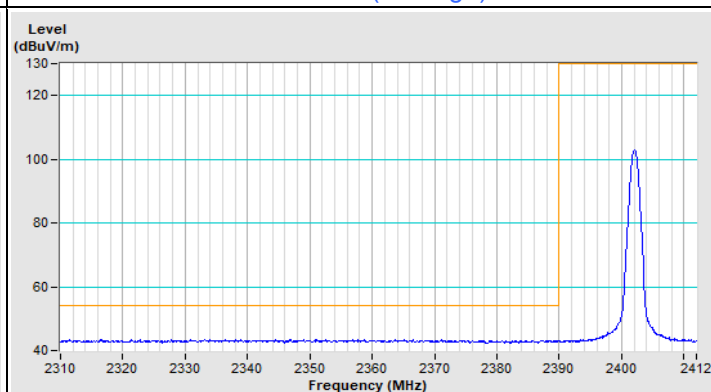
Horizontal (Peak)



Horizontal (Average)

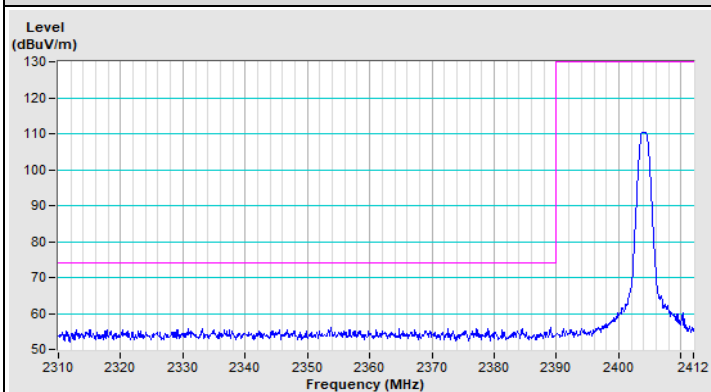


Vertical (Peak)

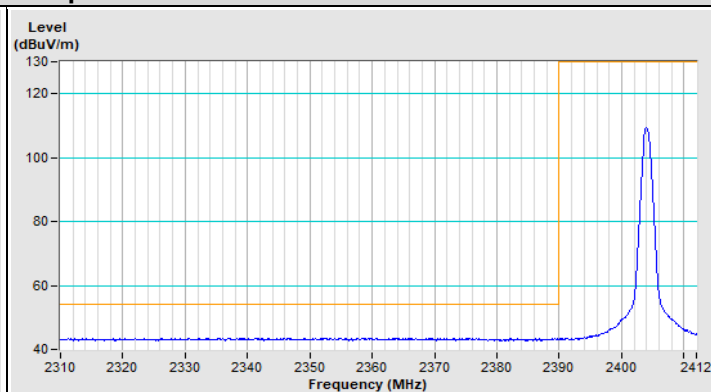


Vertical (Average)

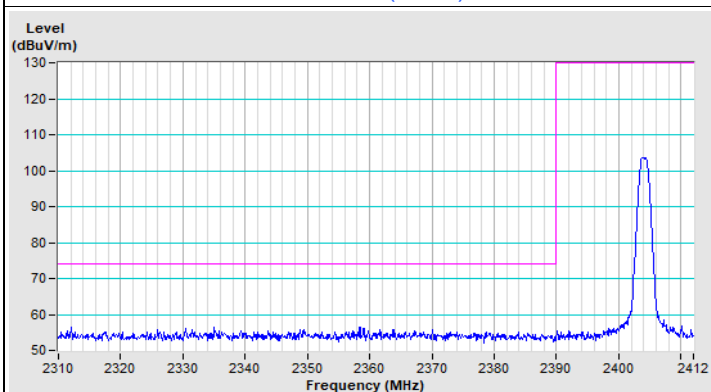
1MBaud PHY with 1Mbps Channel 1



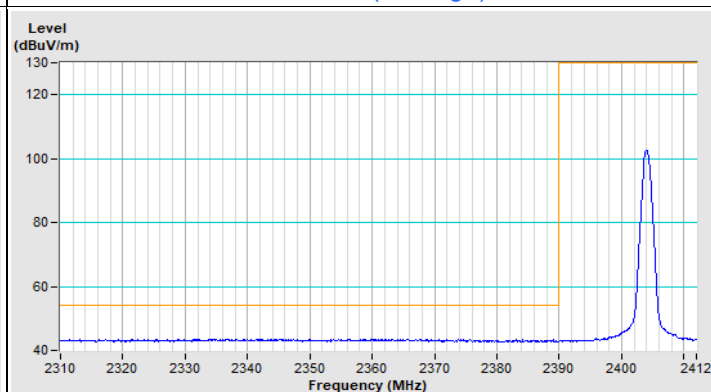
Horizontal (Peak)



Horizontal (Average)

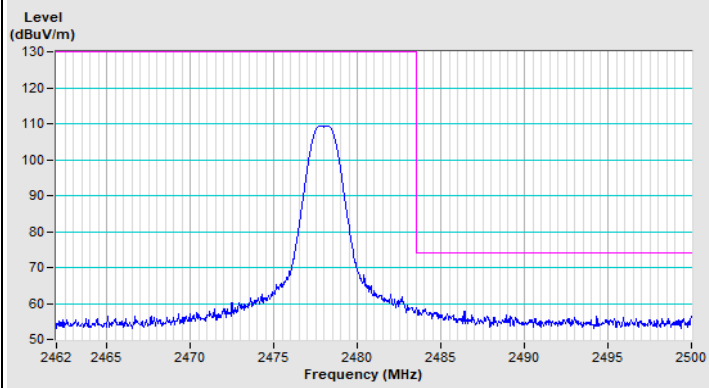


Vertical (Peak)

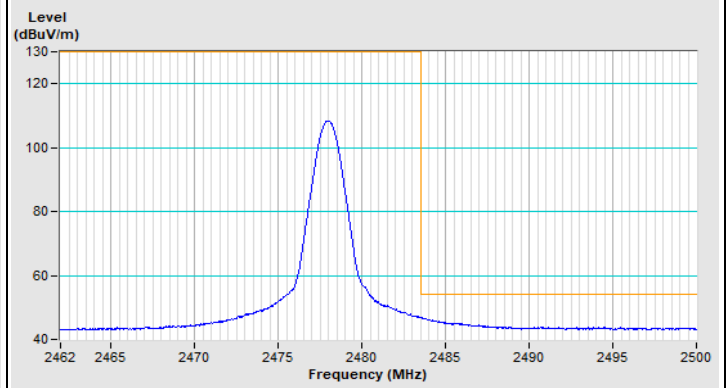


Vertical (Average)

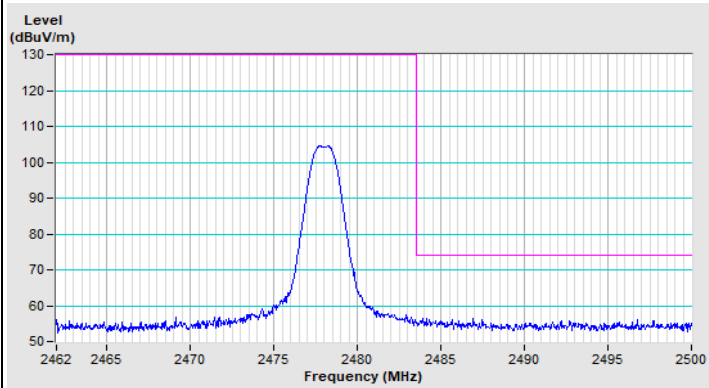
1MBaud PHY with 1Mbps Channel 38



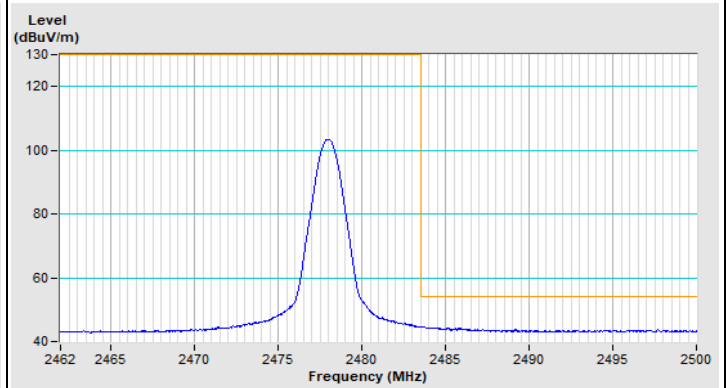
Horizontal (Peak)



Horizontal (Average)

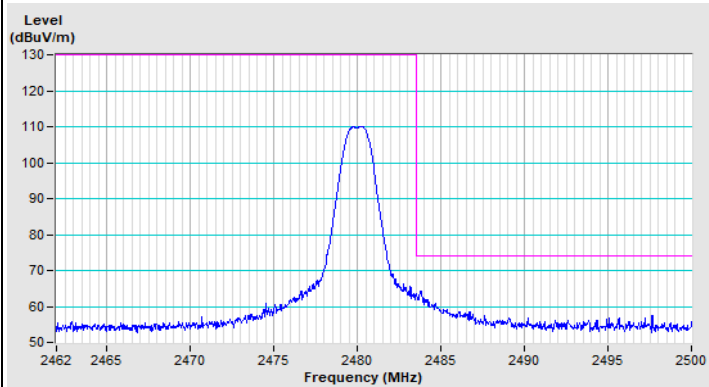


Vertical (Peak)

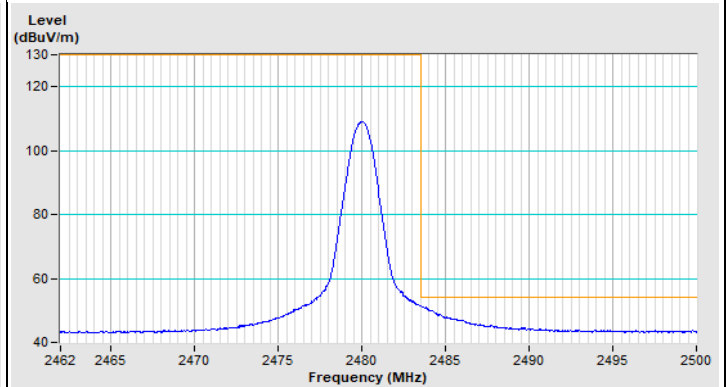


Vertical (Average)

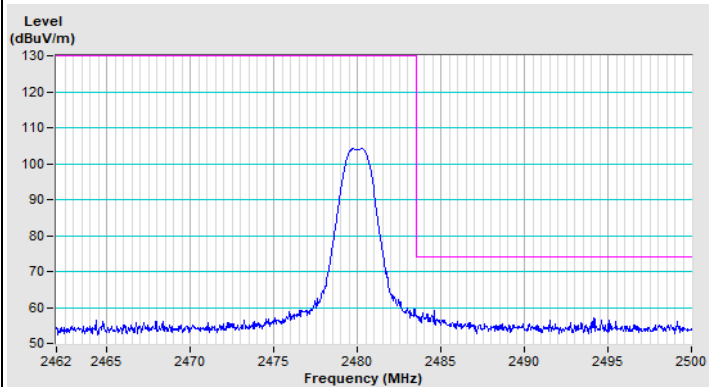
1MBaud PHY with 1Mbps Channel 39



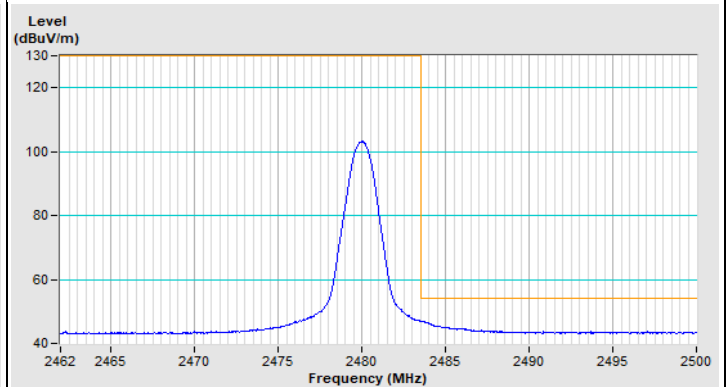
Horizontal (Peak)



Horizontal (Average)

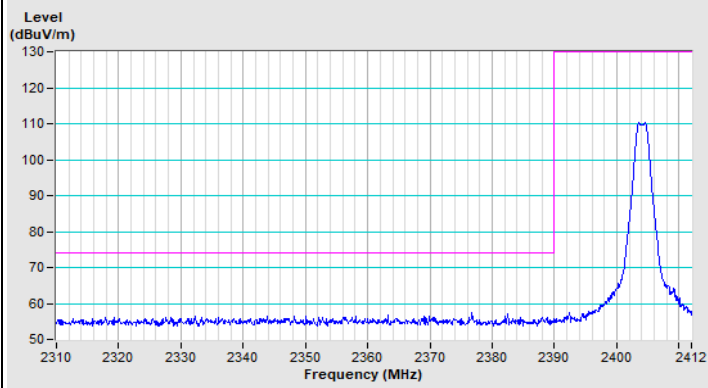


Vertical (Peak)

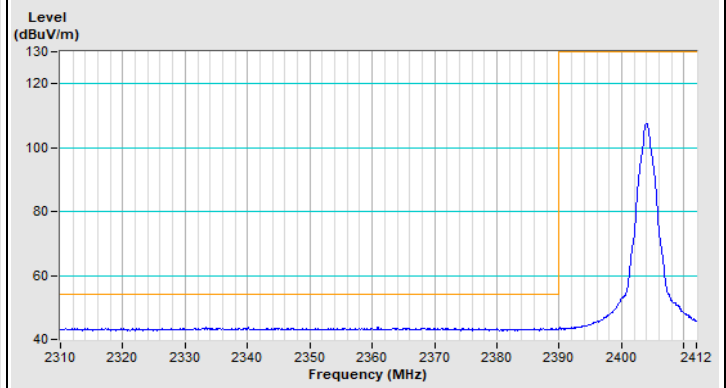


Vertical (Average)

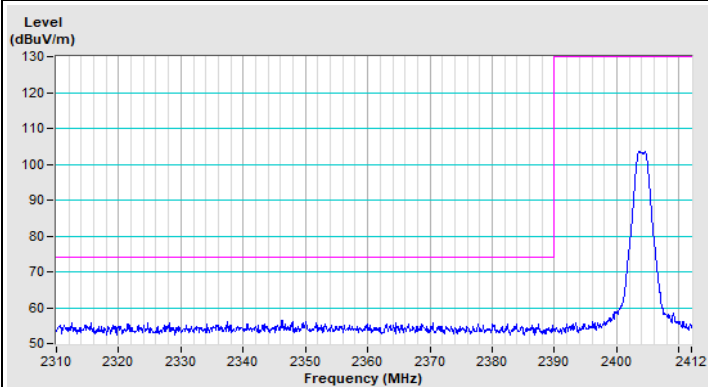
2MBaud PHY Channel 1



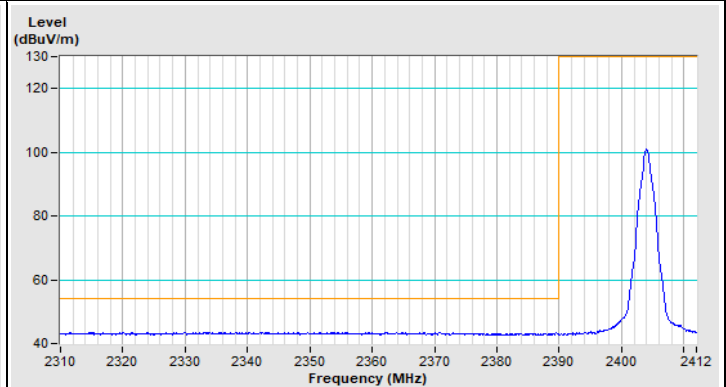
Horizontal (Peak)



Horizontal (Average)

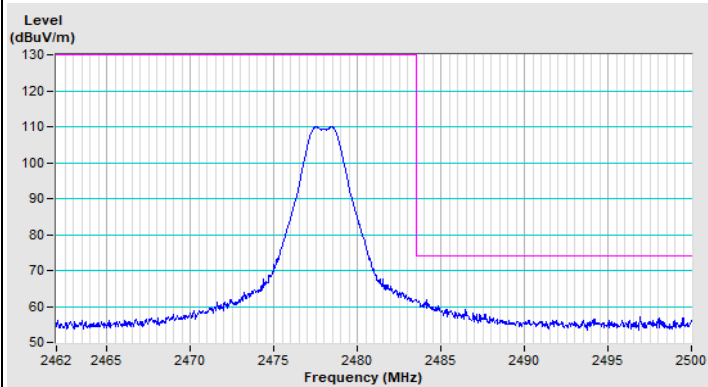


Vertical (Peak)

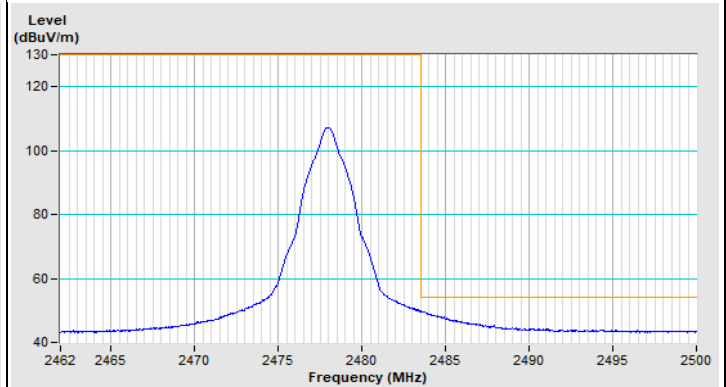


Vertical (Average)

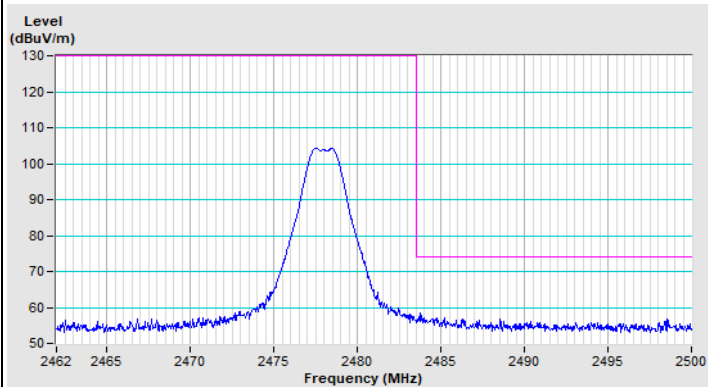
2MBaud PHY Channel 38



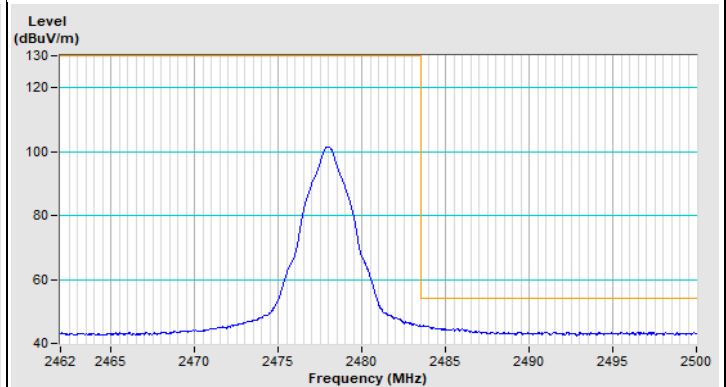
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)



Vertical (Average)

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@bureauveritas.com

Web Site: <http://ee.bureauveritas.com.tw>

The address and road map of all our labs can be found in our web site also.

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