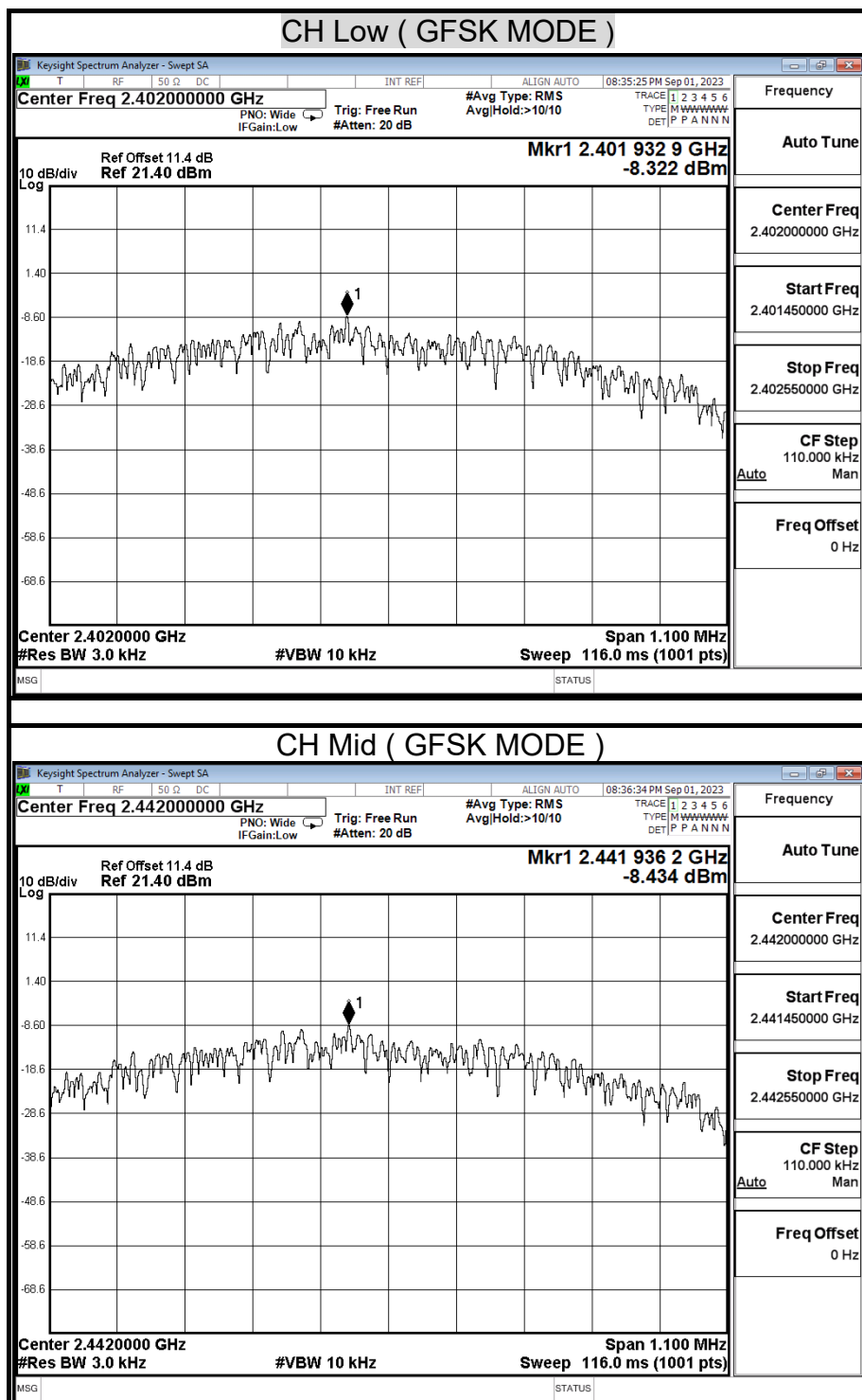
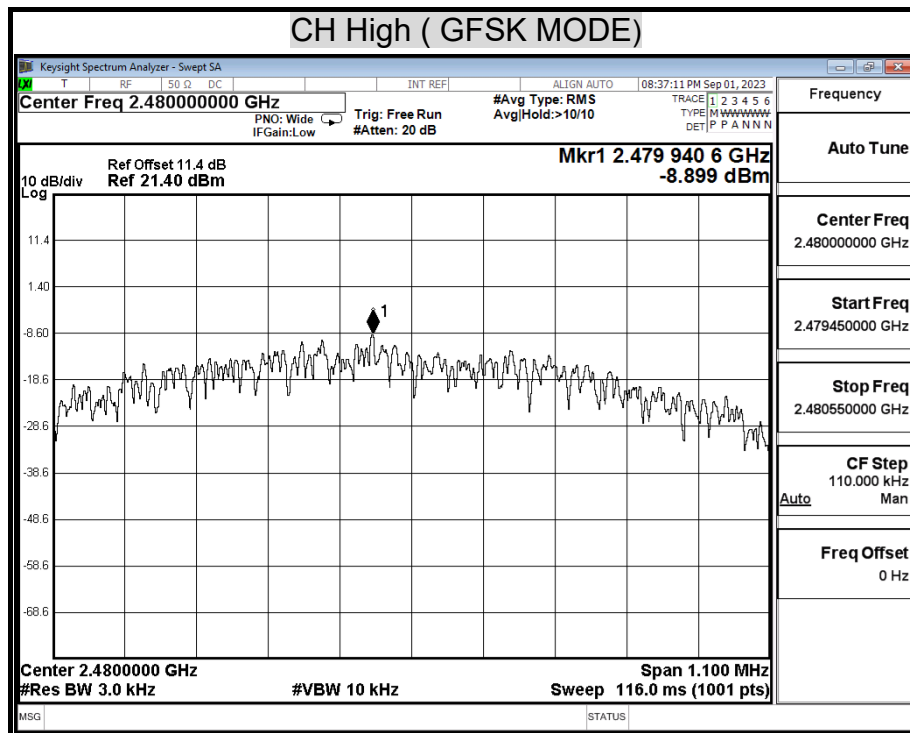
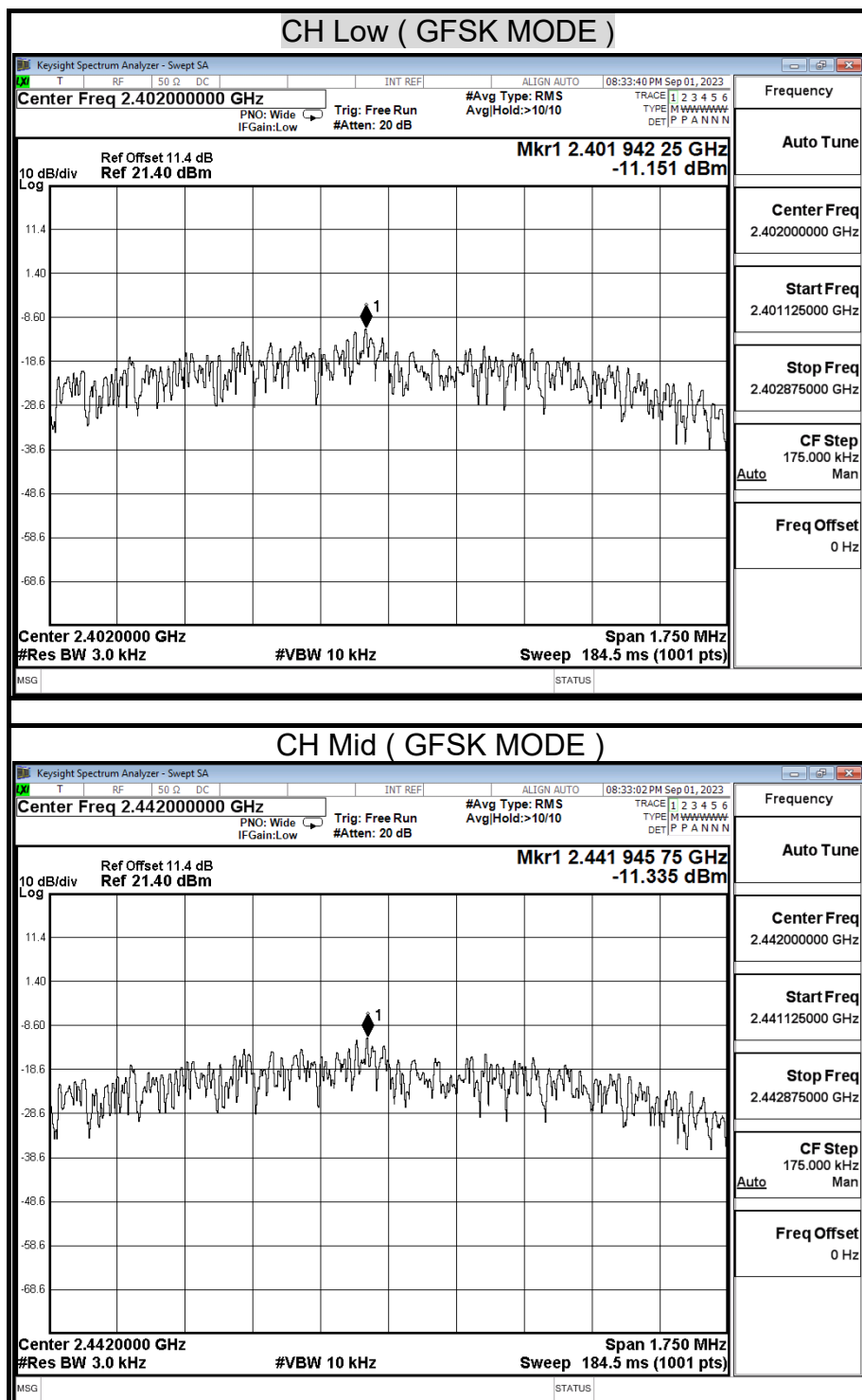


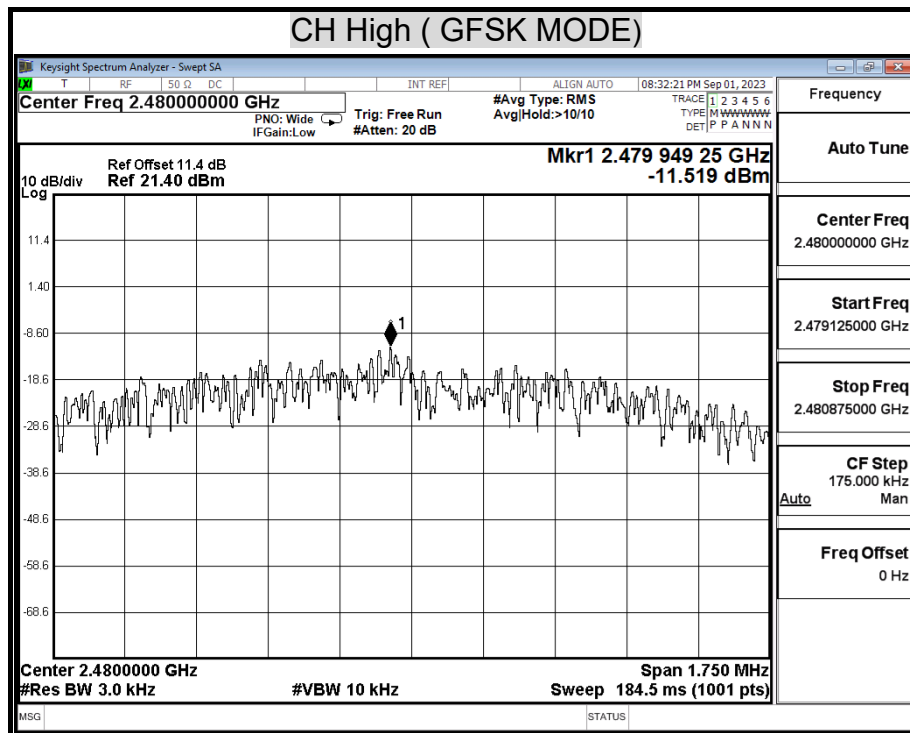
POWER SPECTRAL DENSITY (Bluetooth 4.0 (GFSK) MODE)



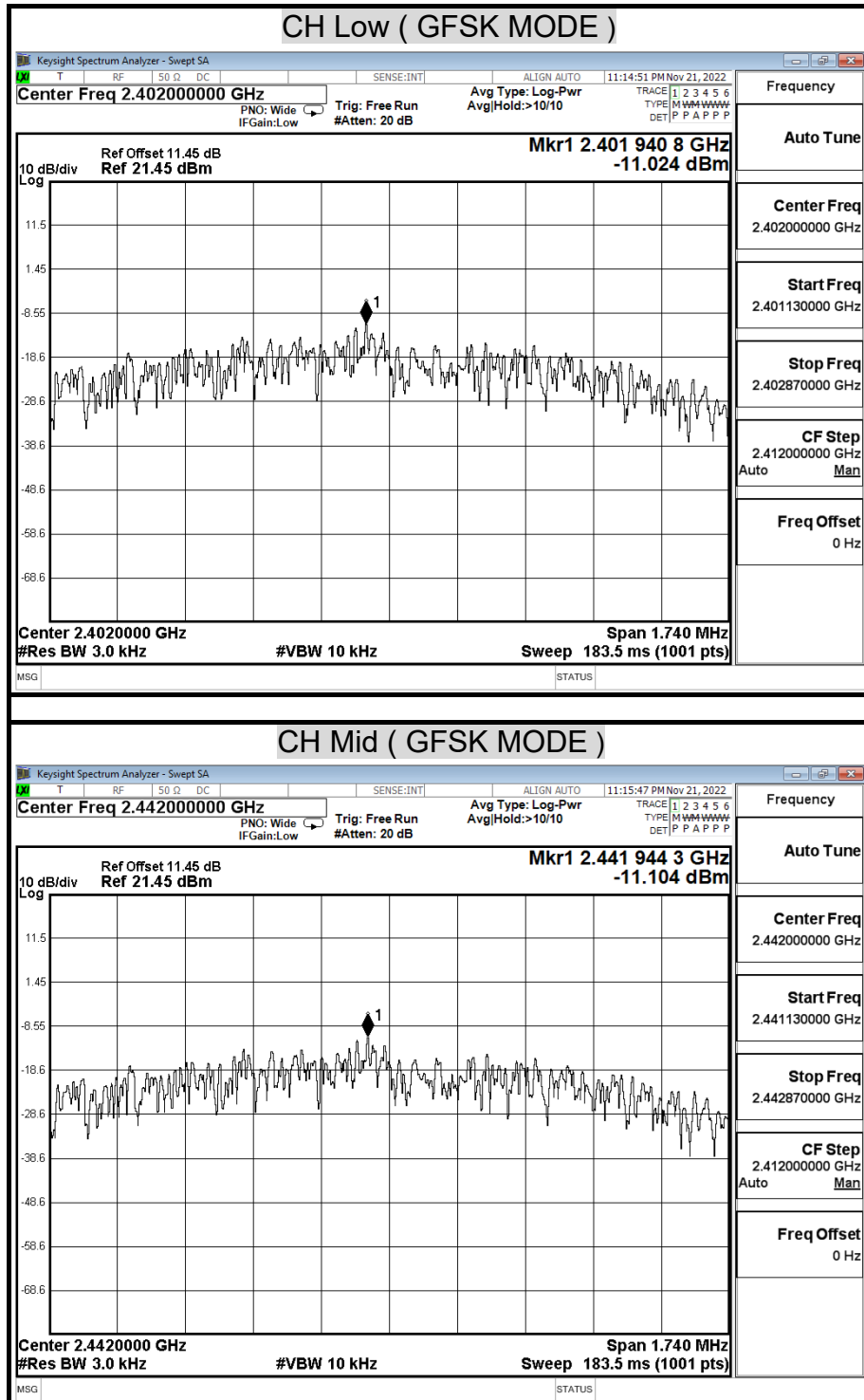


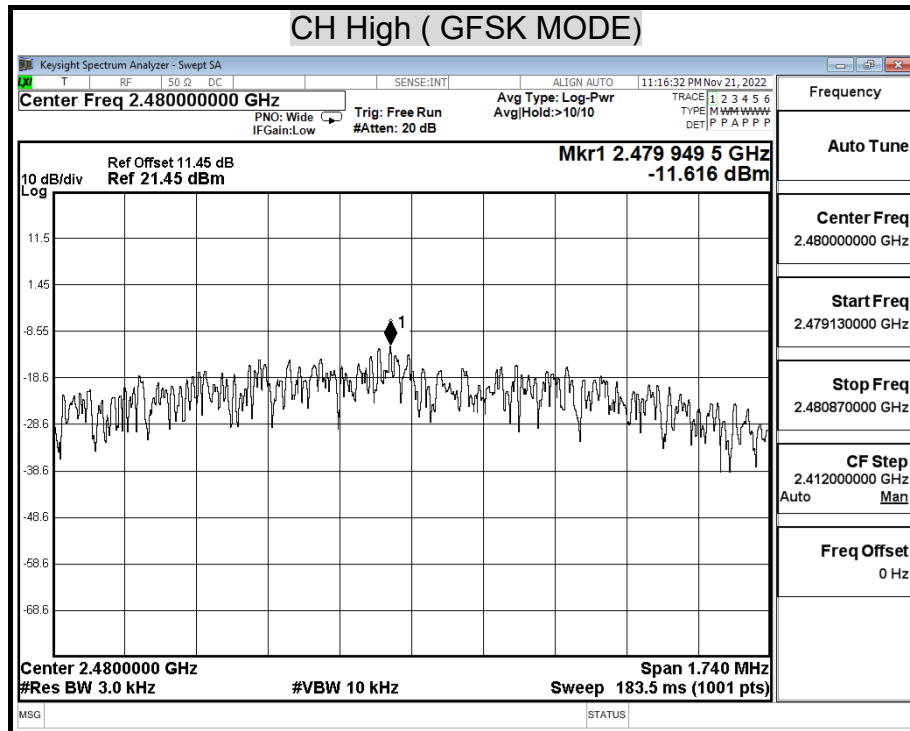
POWER SPECTRAL DENSITY (Bluetooth 5.0 (GFSK) MODE)





POWER SPECTRAL DENSITY (Bluetooth 5.0 (GFSK) MODE)





8.5 CONDUCTED SPURIOUS EMISSION

LIMITS

§ 15.247(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the and that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

TEST EQUIPMENTS

| Chamber Room #1166 | | | | | |
|---------------------------|-------------------------|--------------|---------------|------------------|-----------------|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due |
| EXA Spectrum Analyzer | KEYSIGHT | N9010A | MY54430216 | 07/25/2023 | 07/24/2024 |
| SMA Cable+10dB Attenuator | CCS | SMA+10dB ATT | SMA/10dB | 01/19/2023 | 01/18/2024 |
| Software | Excel(ccs-o6-2020 v1.1) | | | | |

TEST SETUP**TEST PROCEDURE**

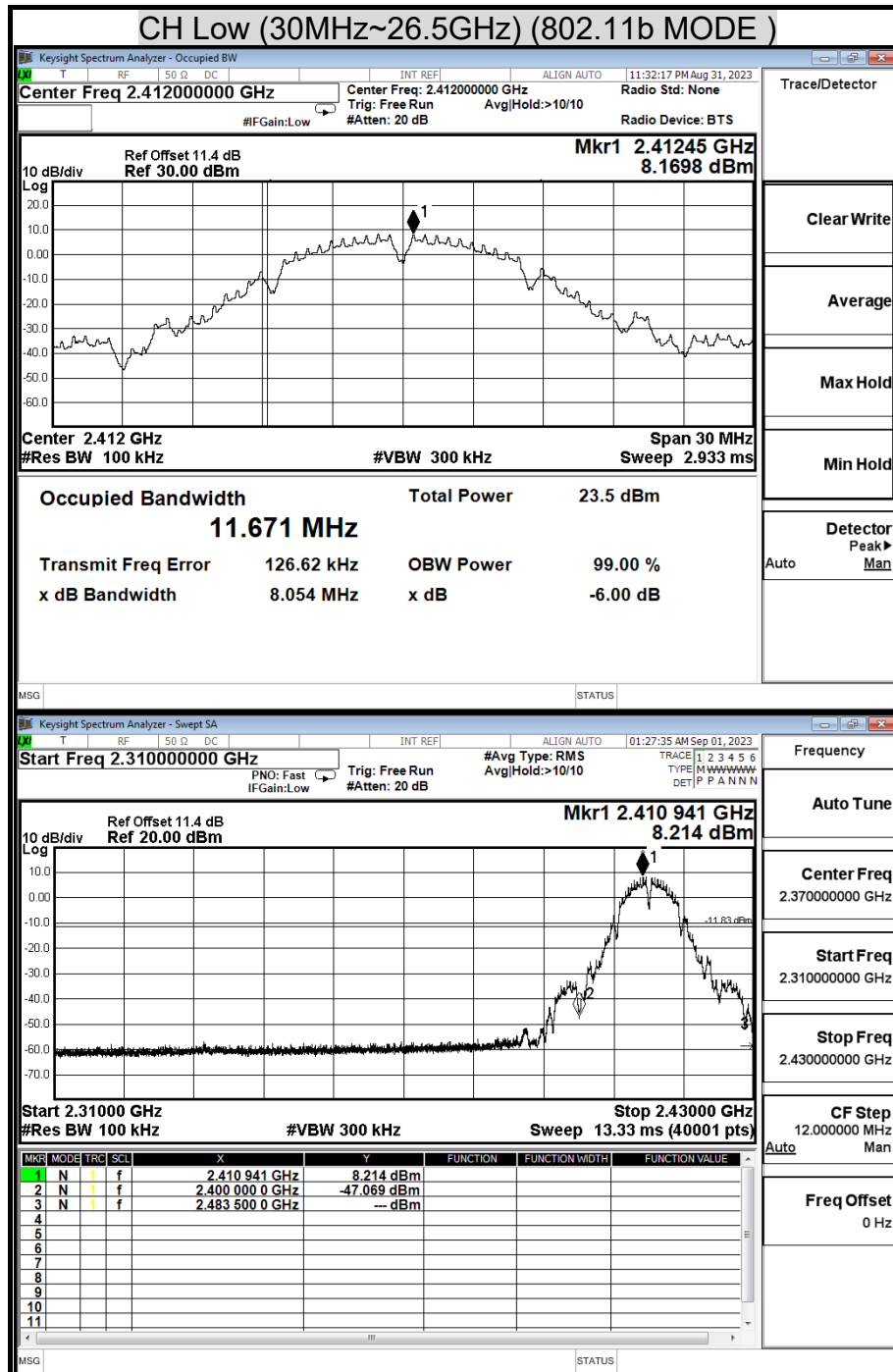
The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

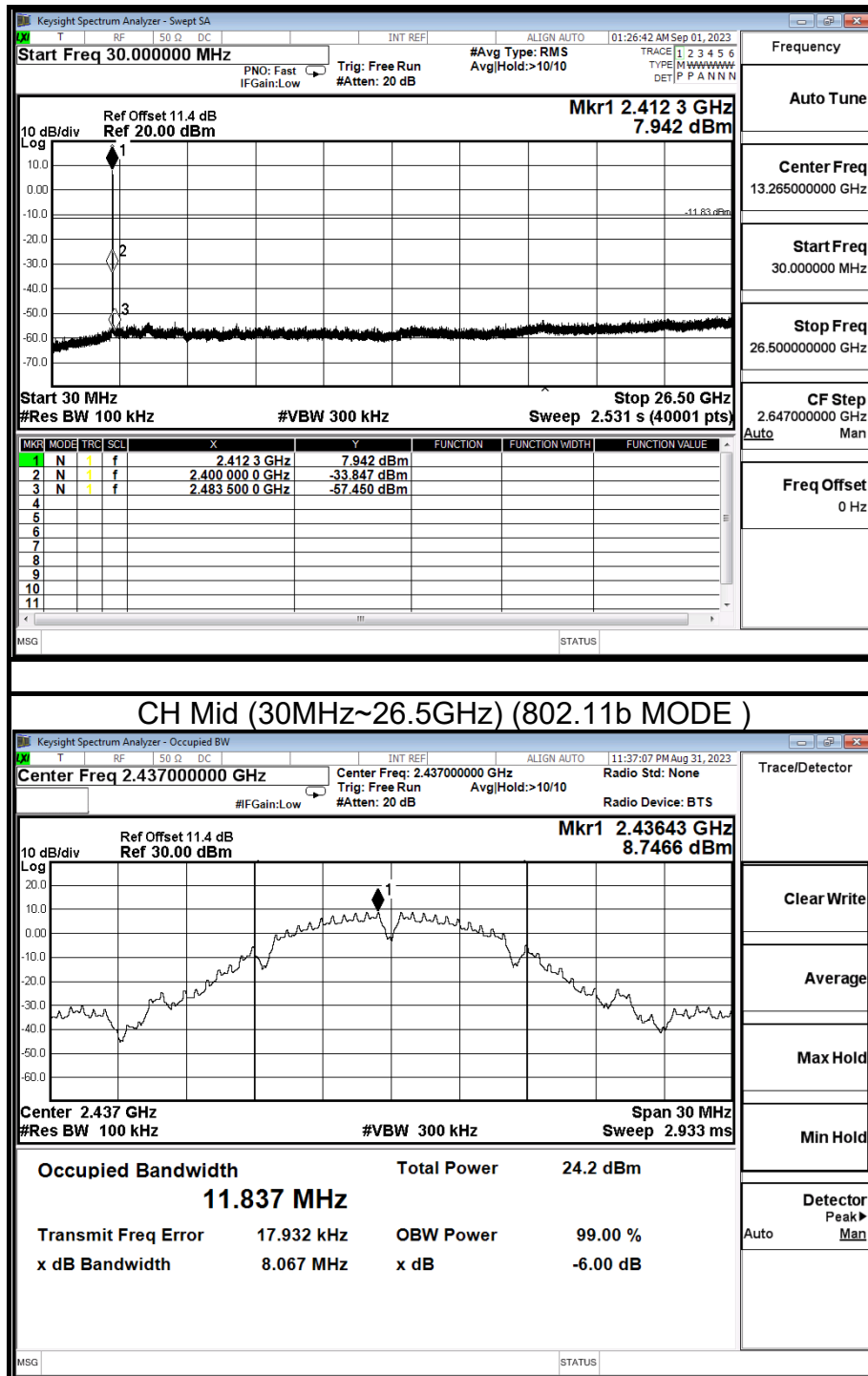
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

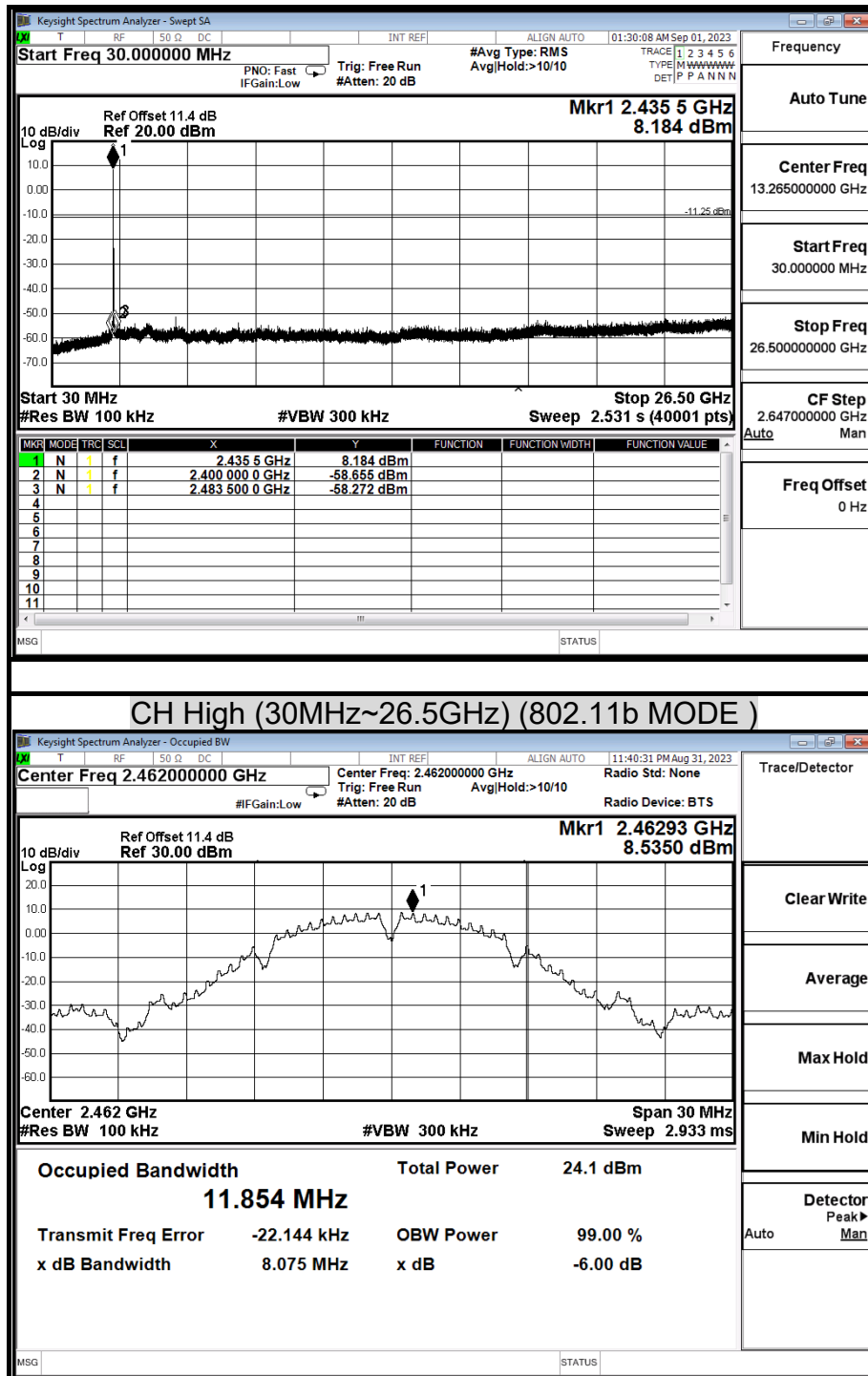
OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT

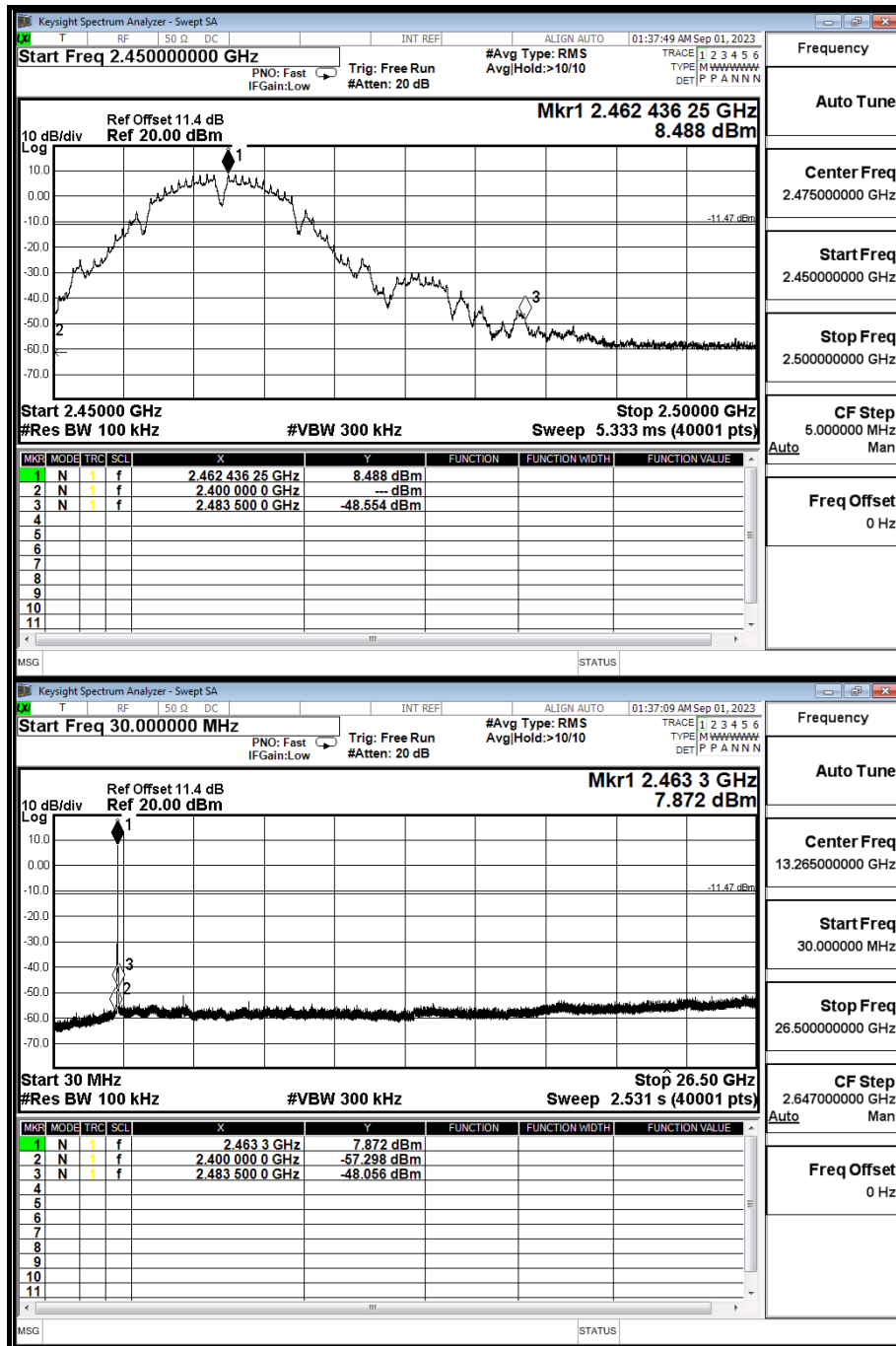
| | | | |
|-----------------|-------------|-----------|------------|
| Model Name | ACVR | Test By | Peter Chu |
| Temp & Humidity | 24.5°C, 44% | Test Date | 2023/08/28 |

(IEEE 802.11b MODE)



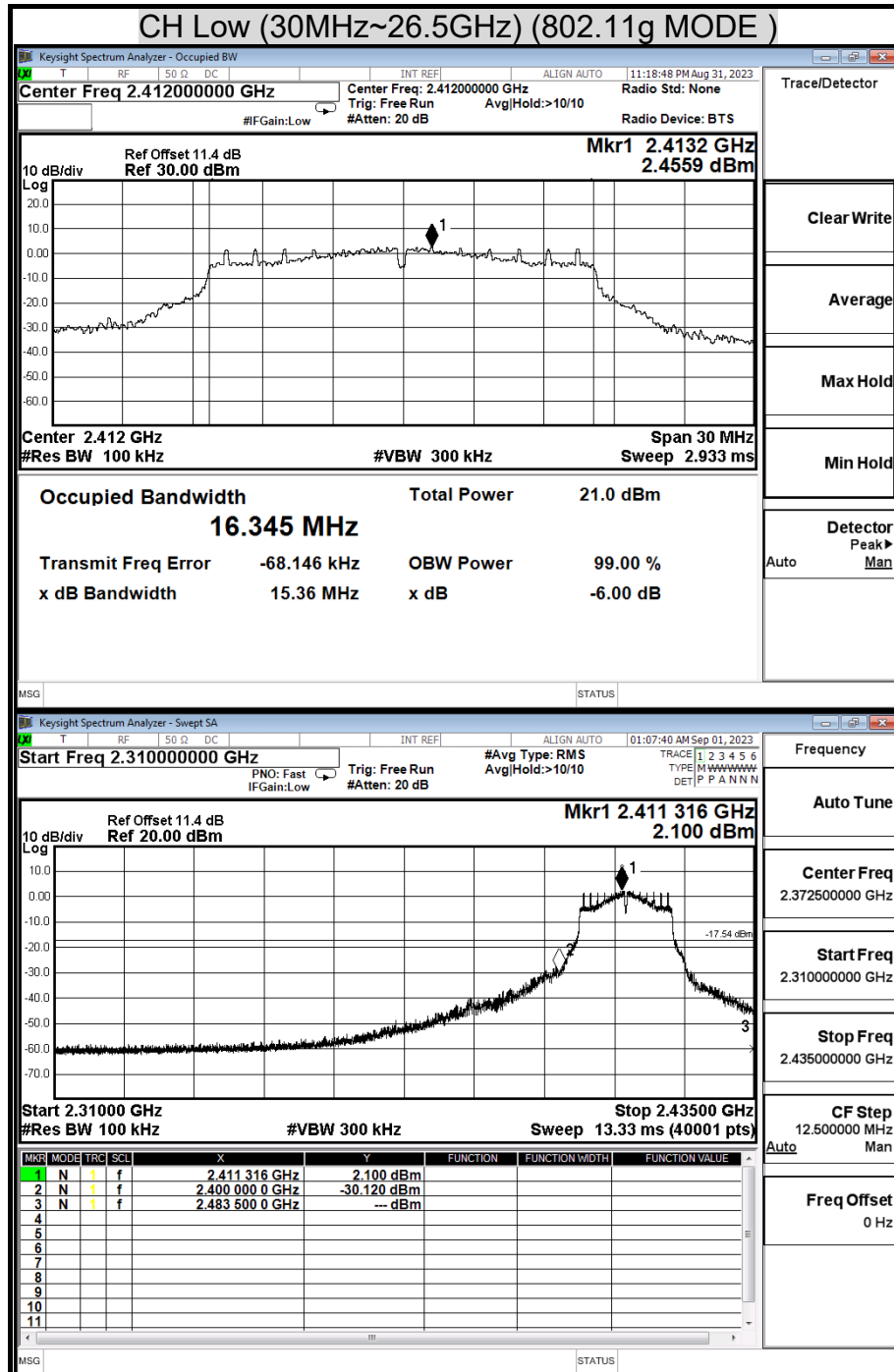


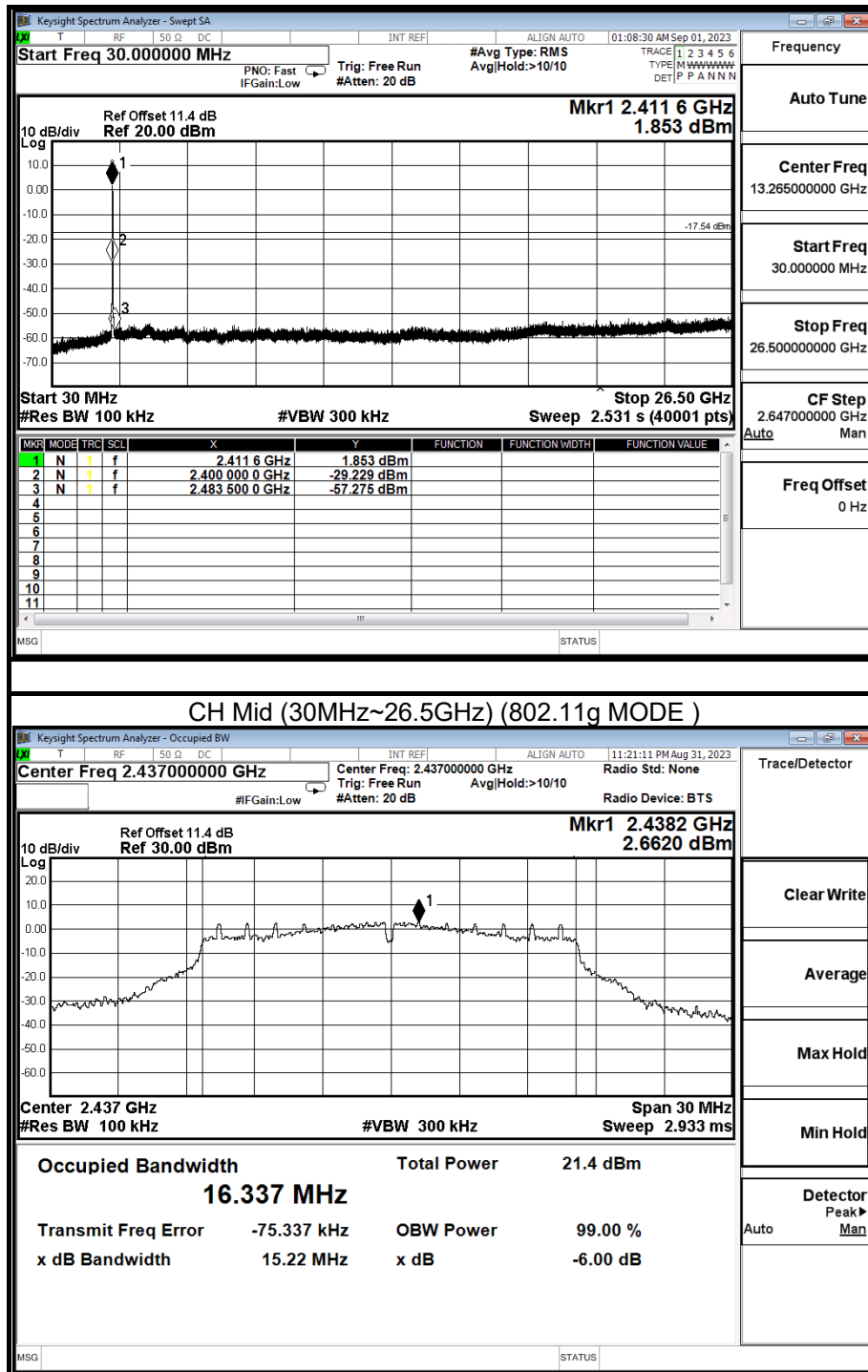


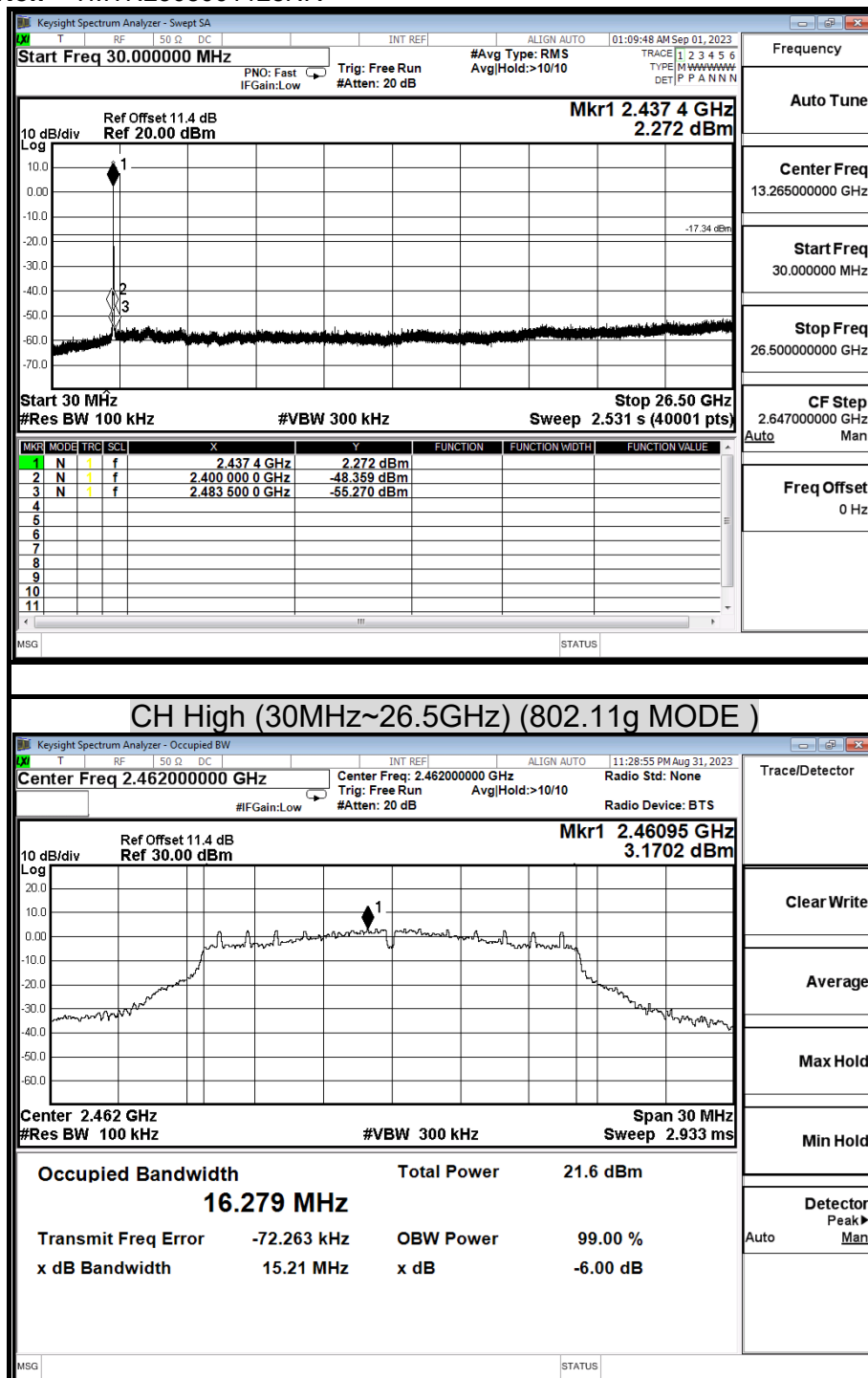


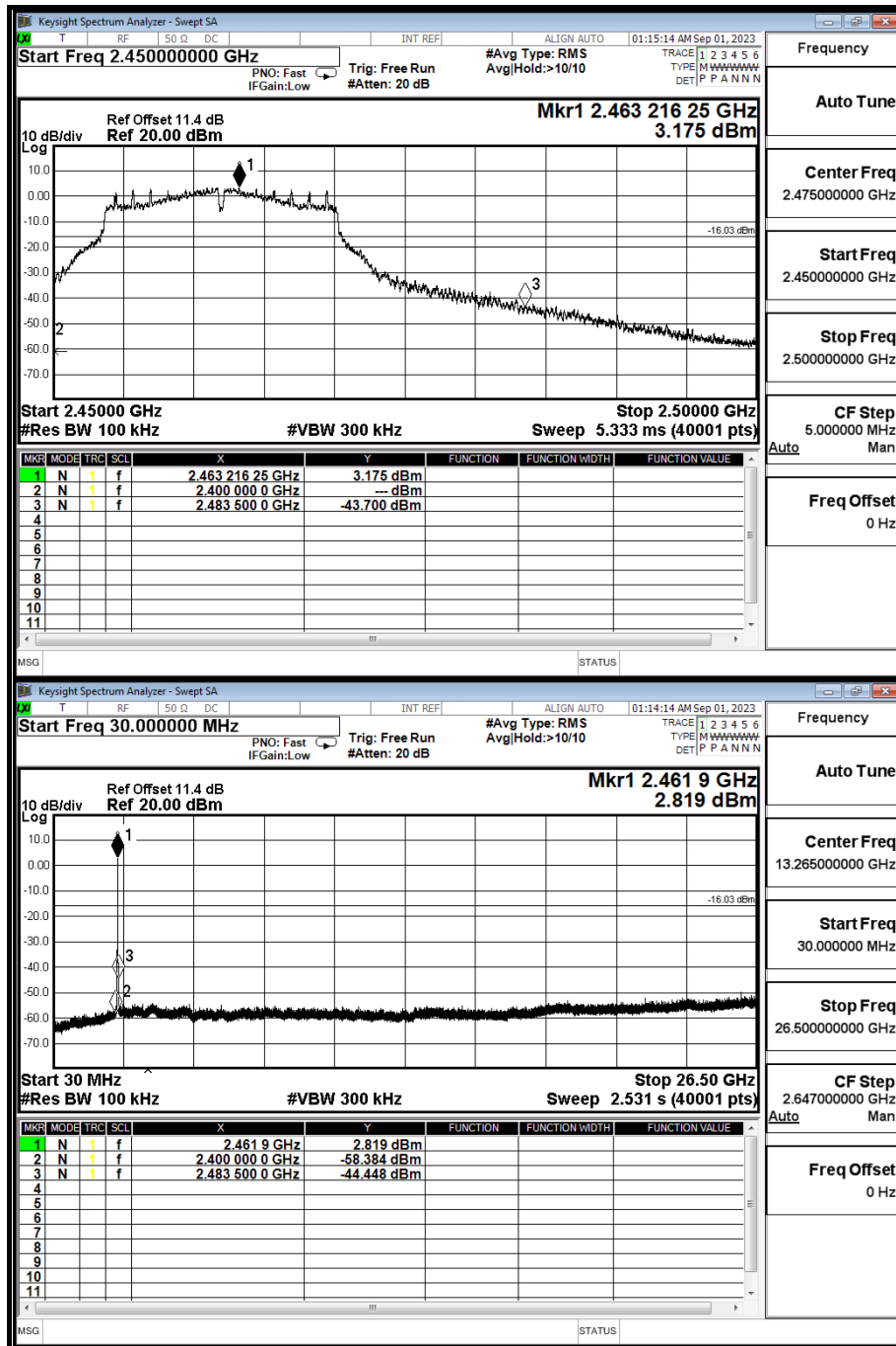
OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT

(802.11g MODE)



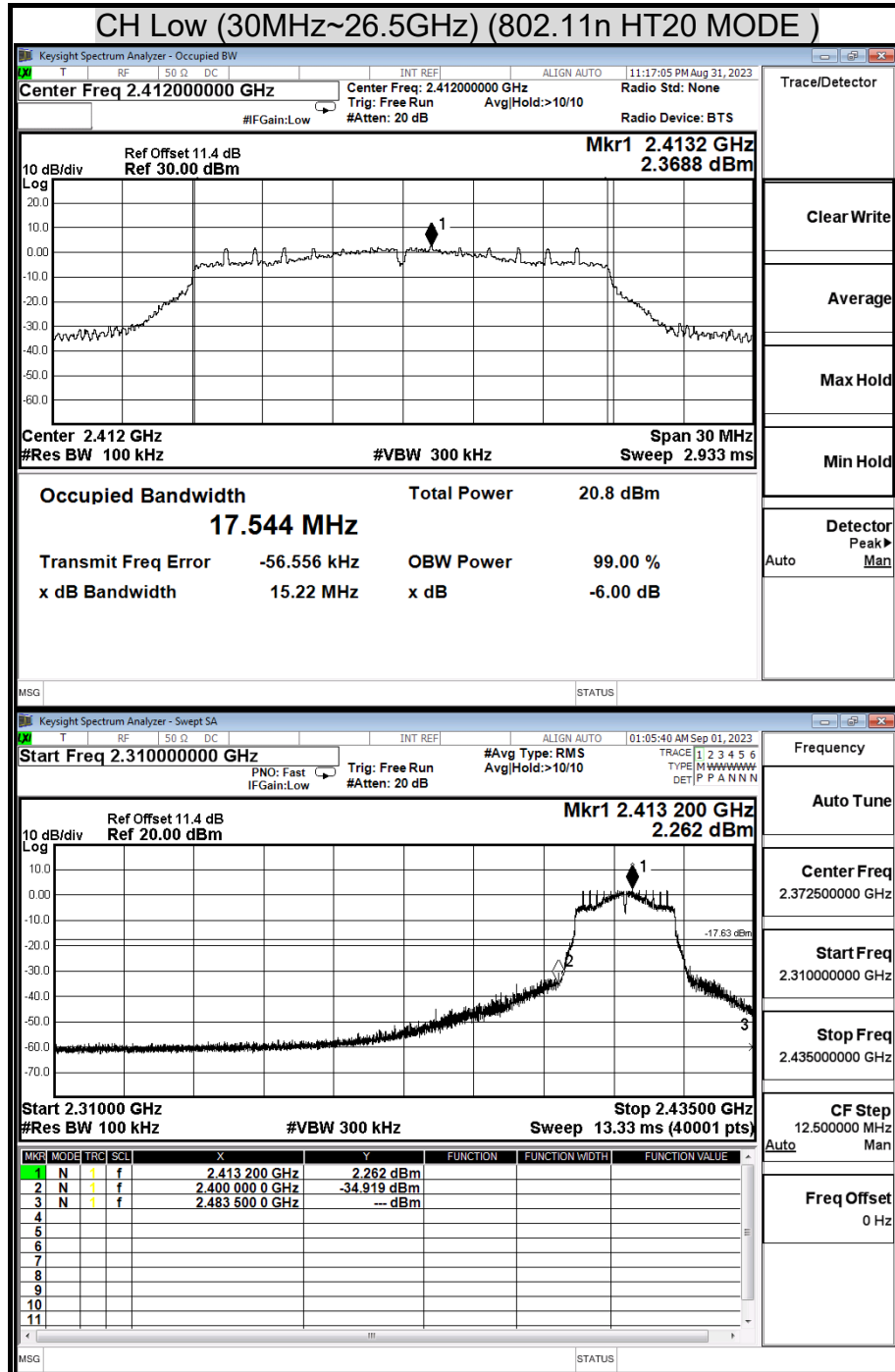


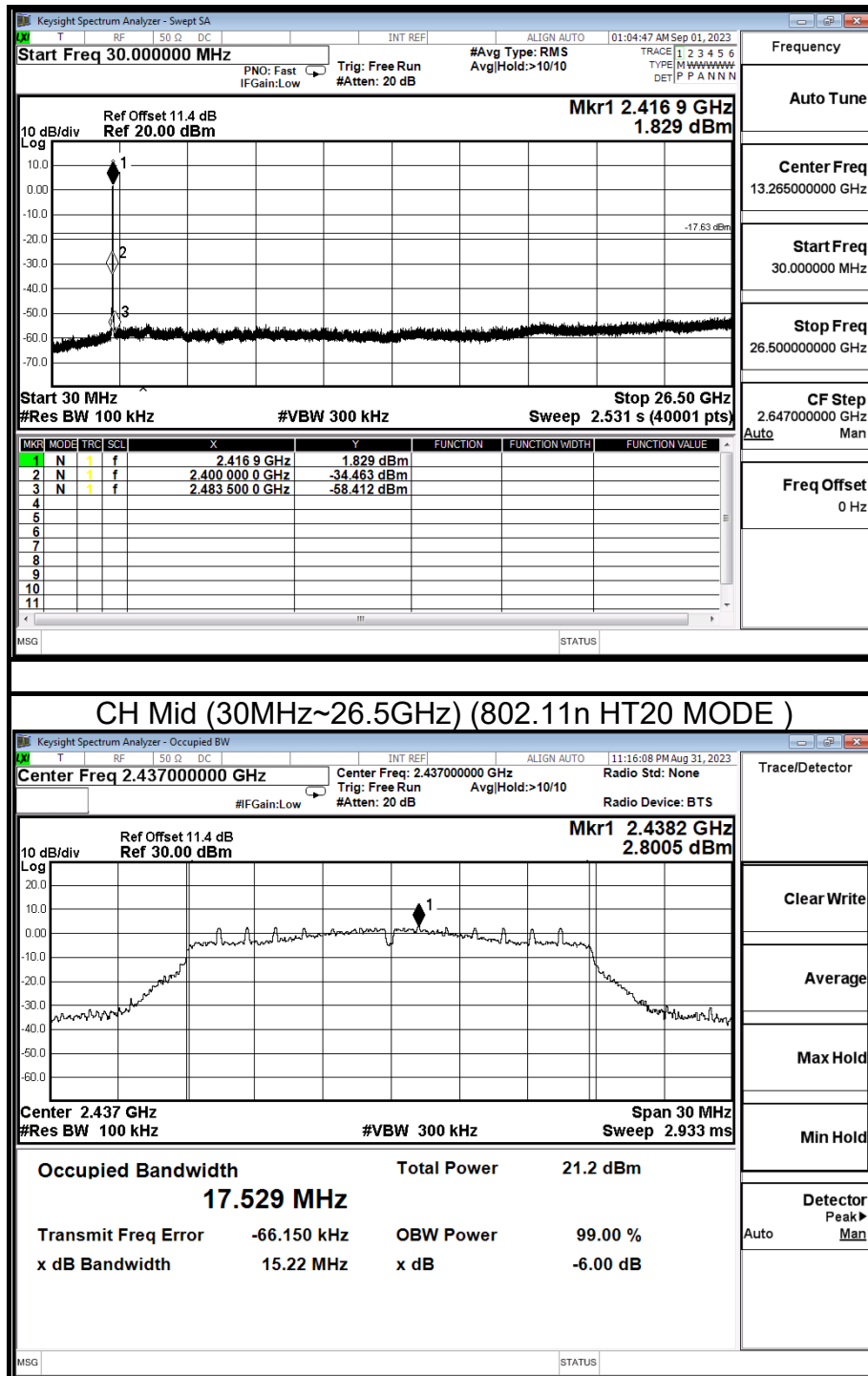


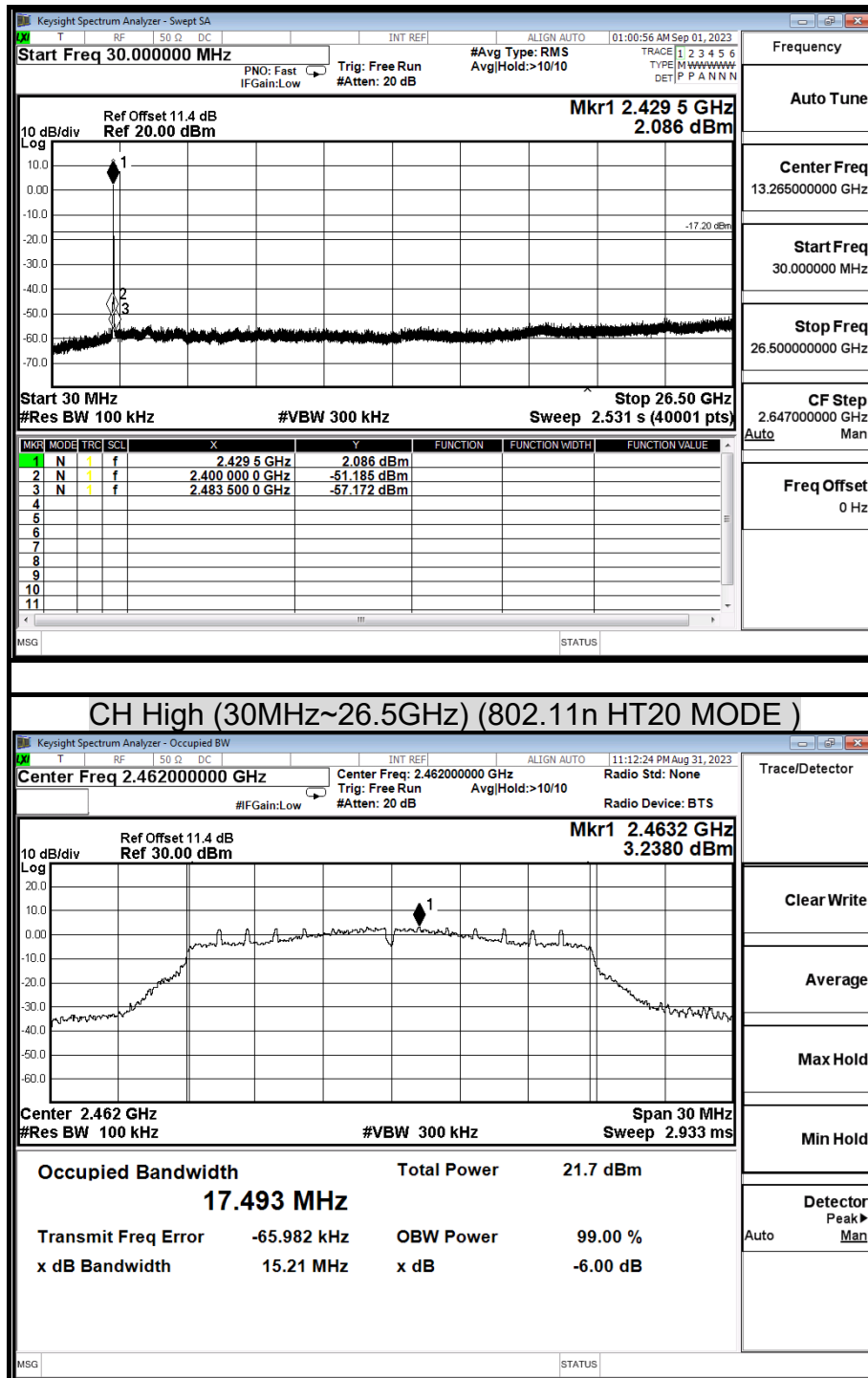


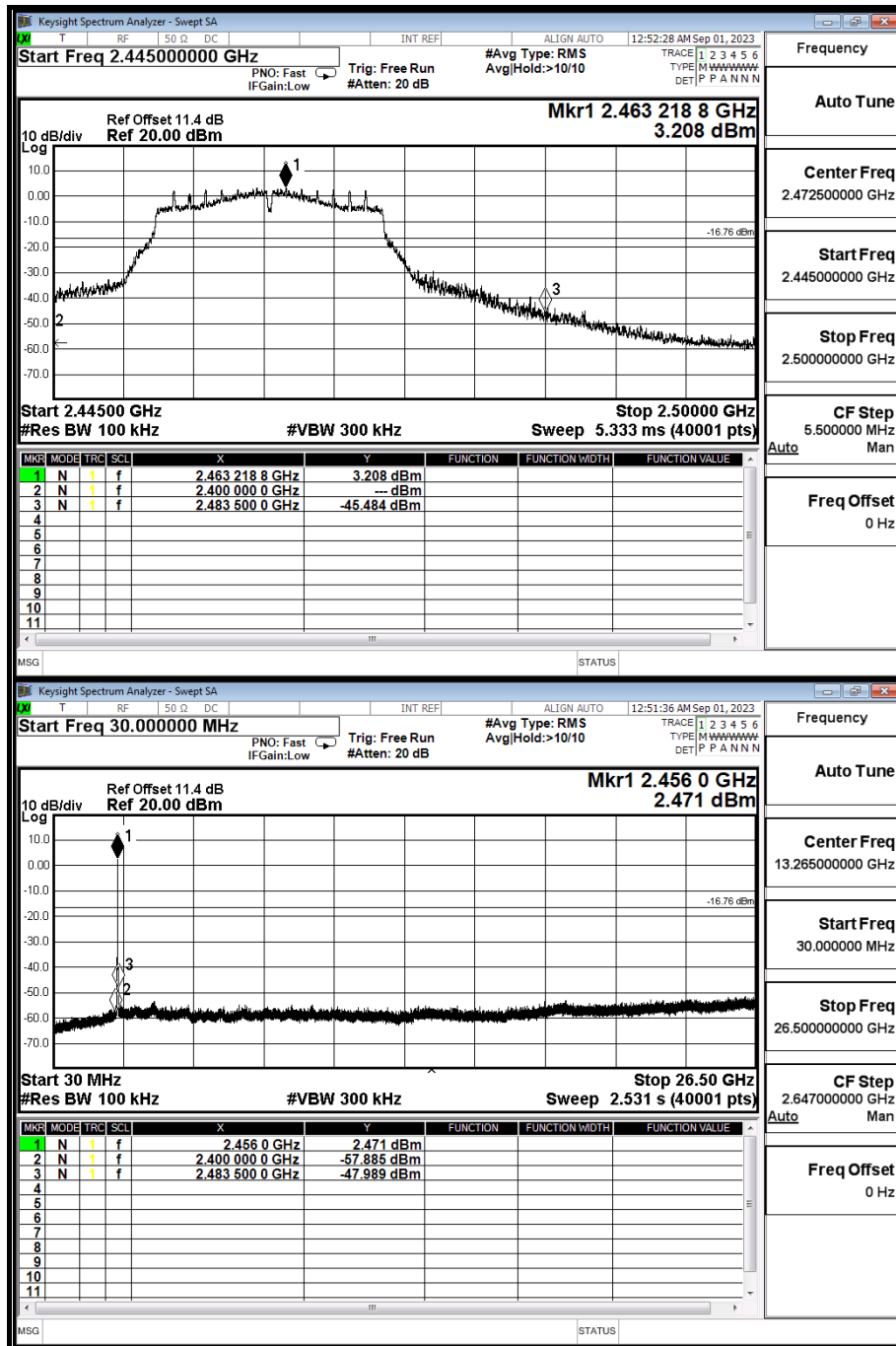
OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT

(802.11n HT20 MODE)





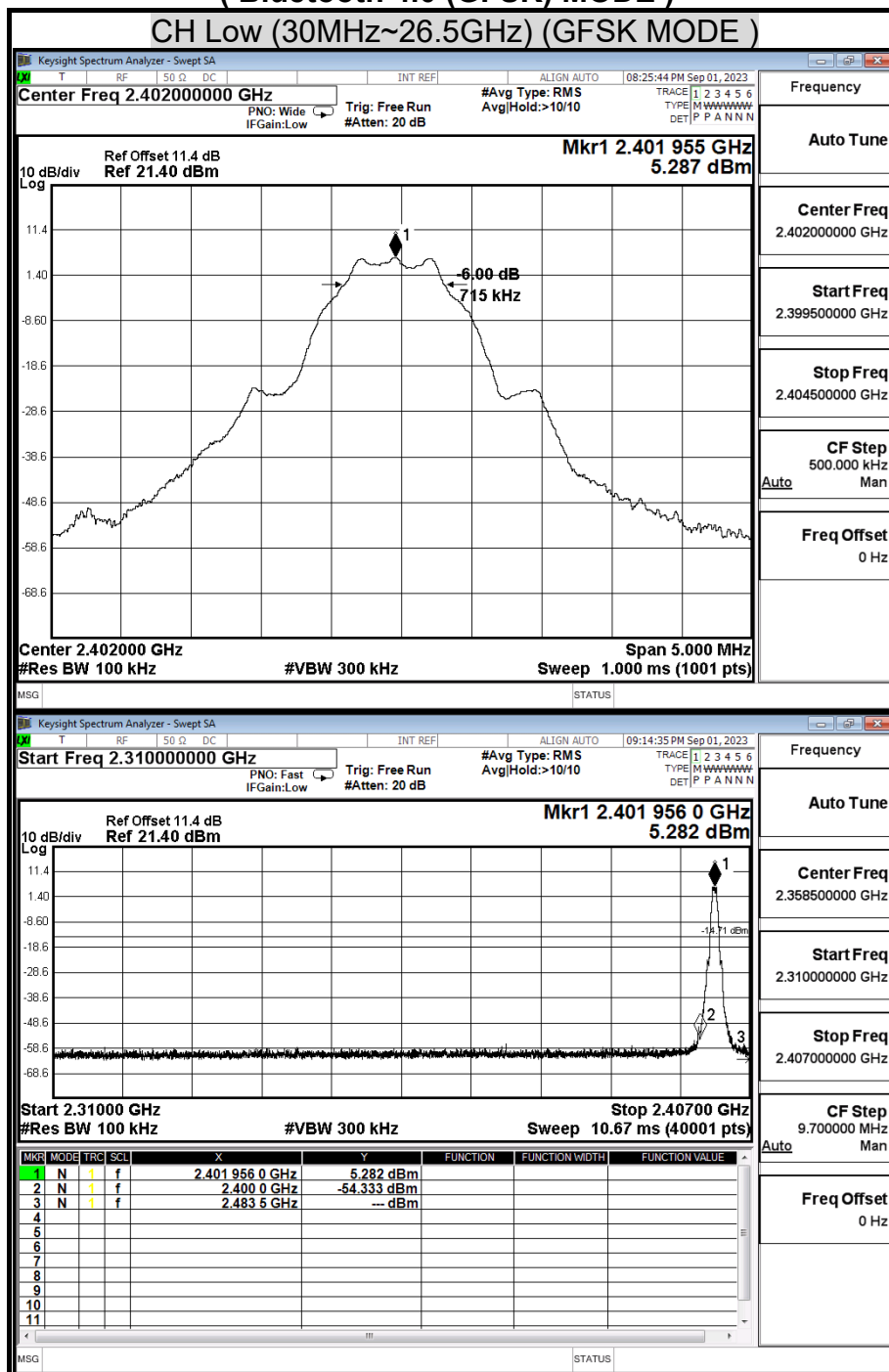


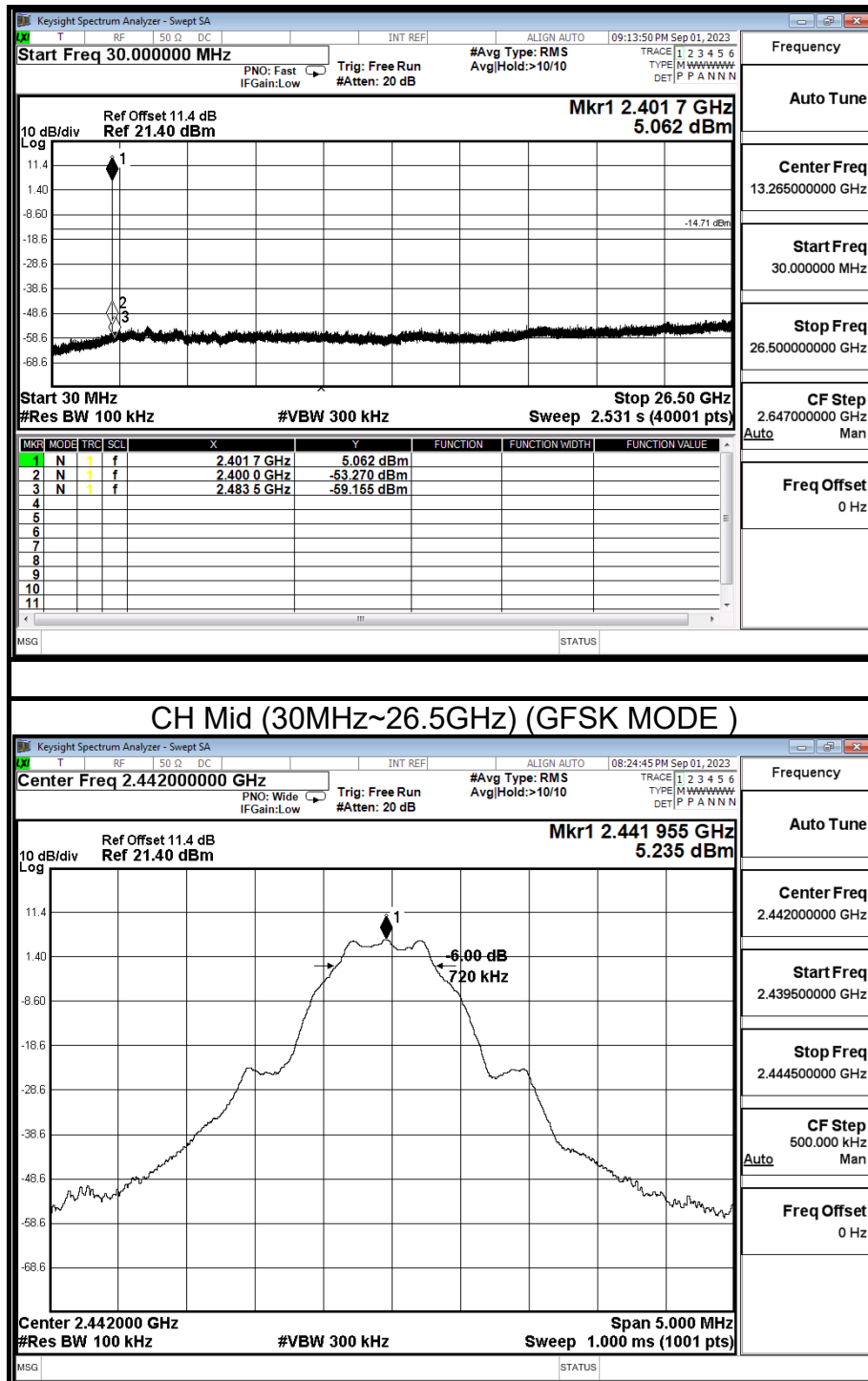


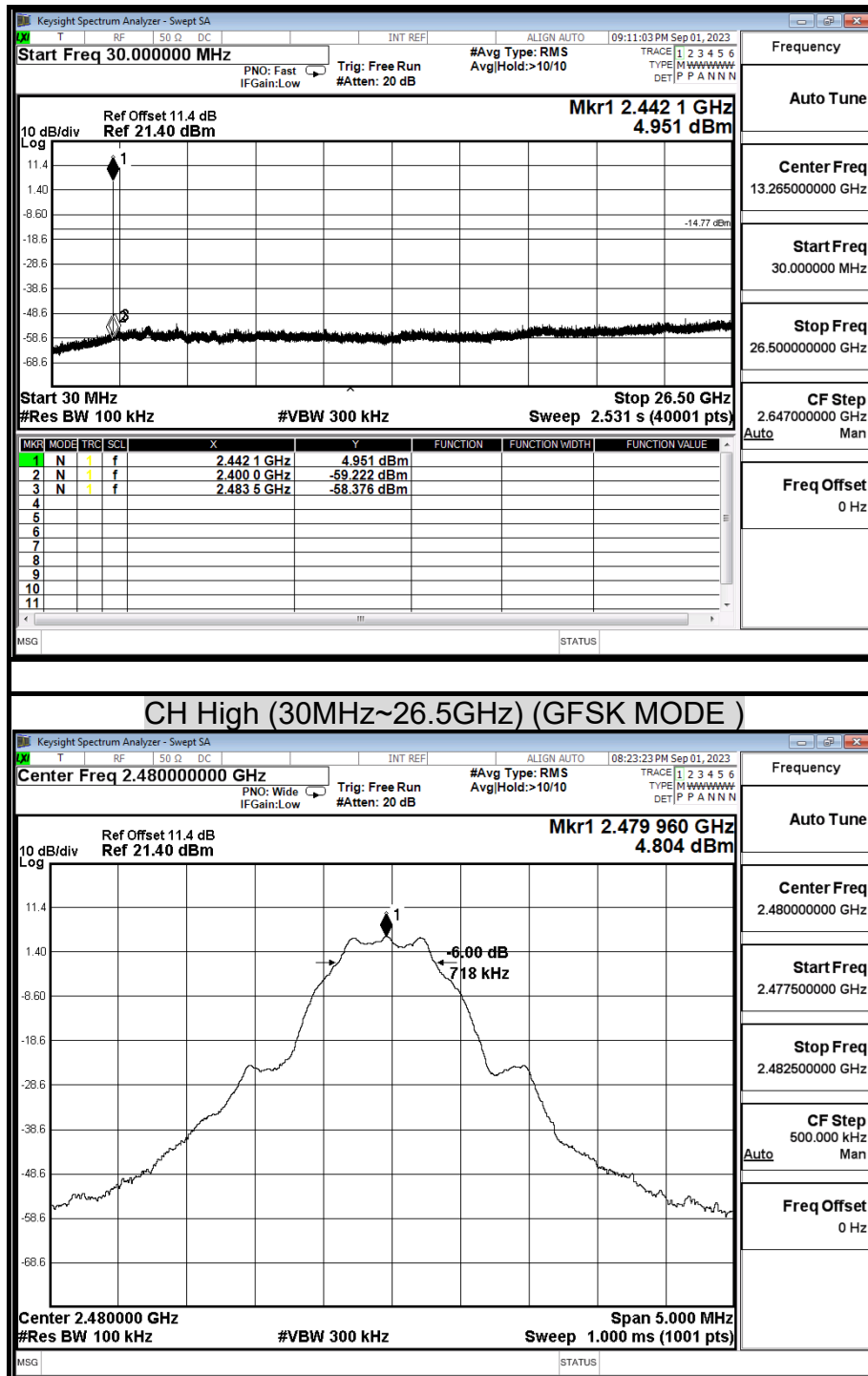
OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT

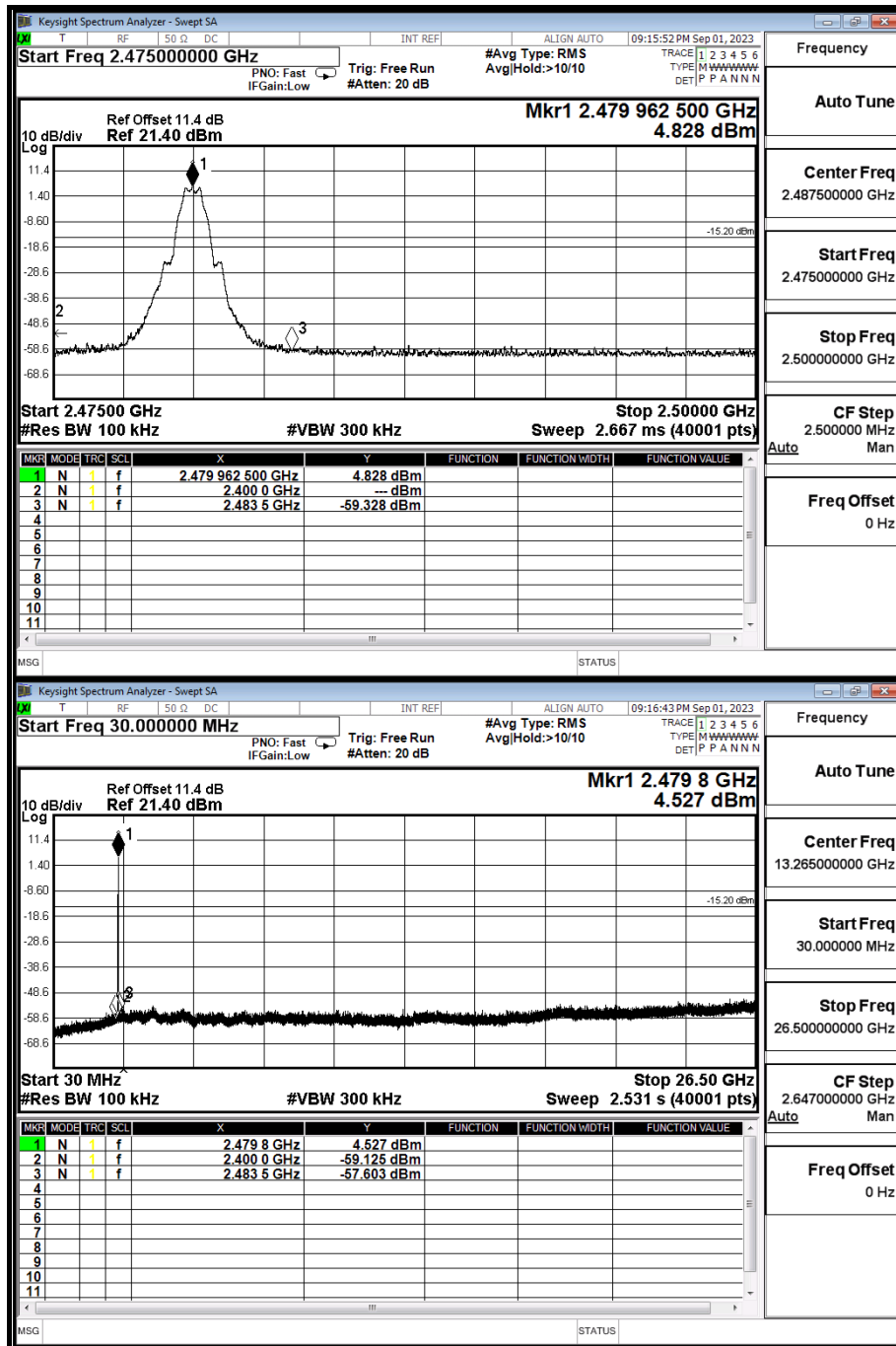
| | | | |
|-----------------|-------------|-----------|------------|
| Model Name | ACVR | Test By | Peter Chu |
| Temp & Humidity | 24.4°C, 45% | Test Date | 2023/08/28 |

(Bluetooth 4.0 (GFSK) MODE)





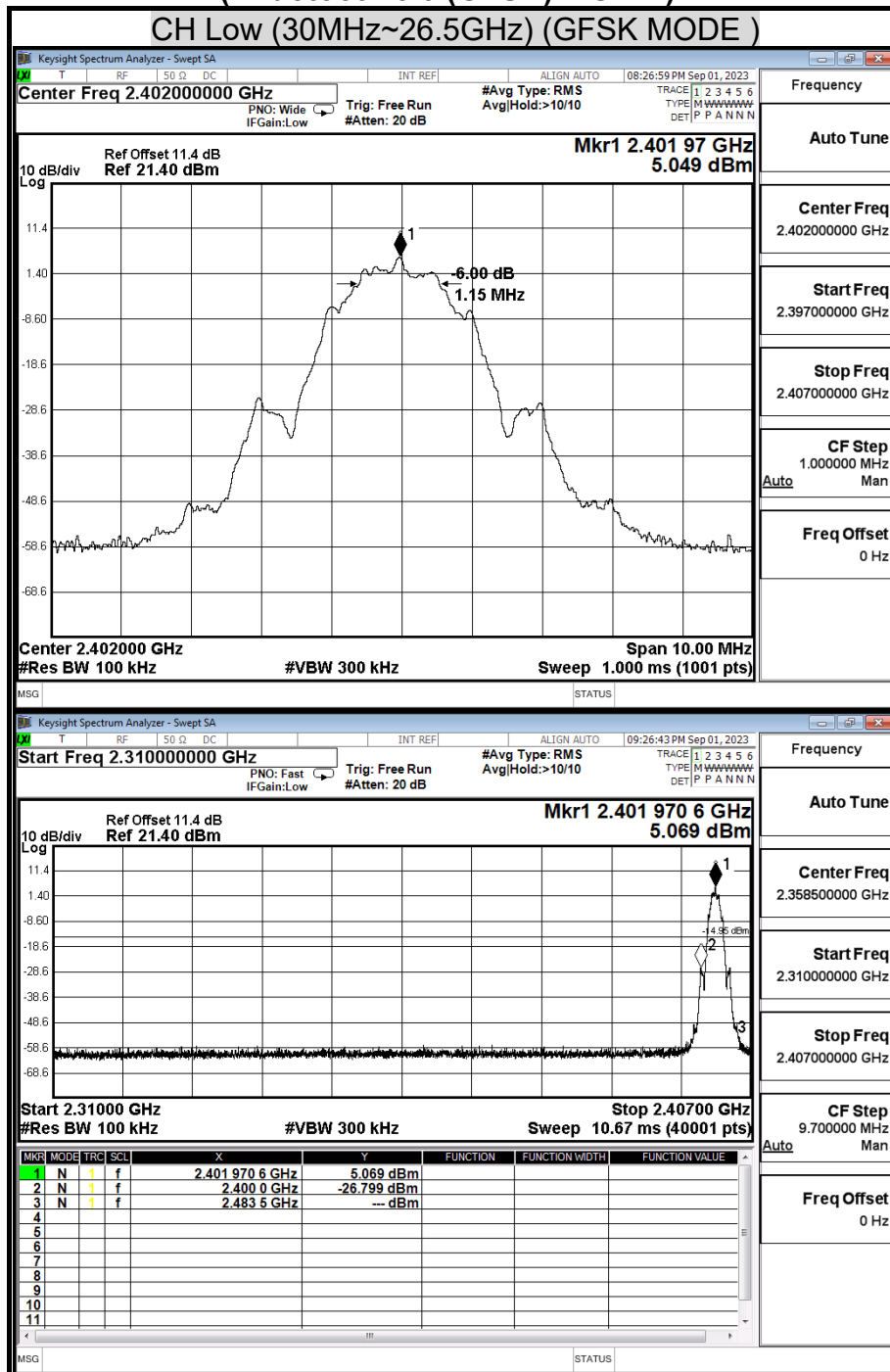


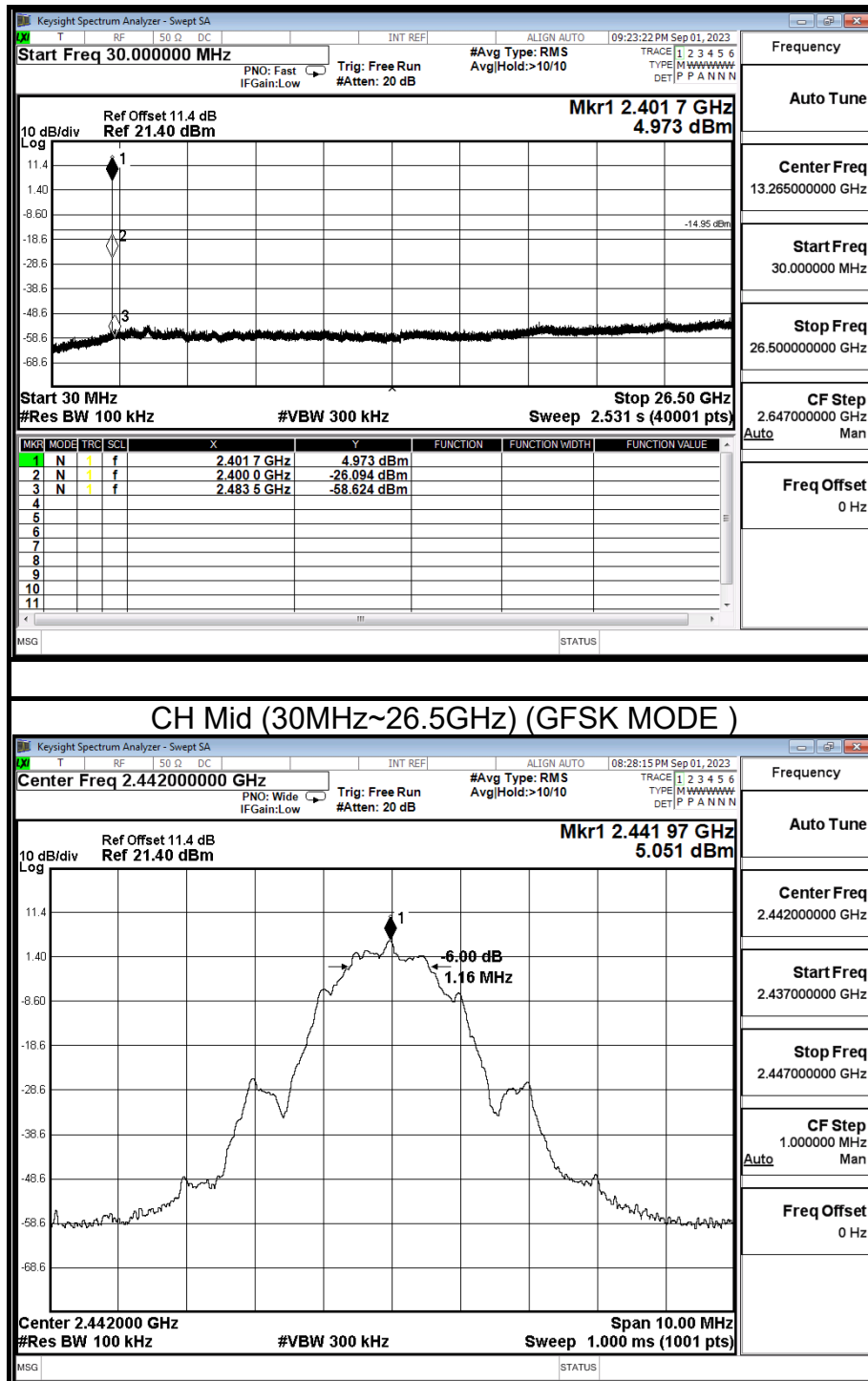


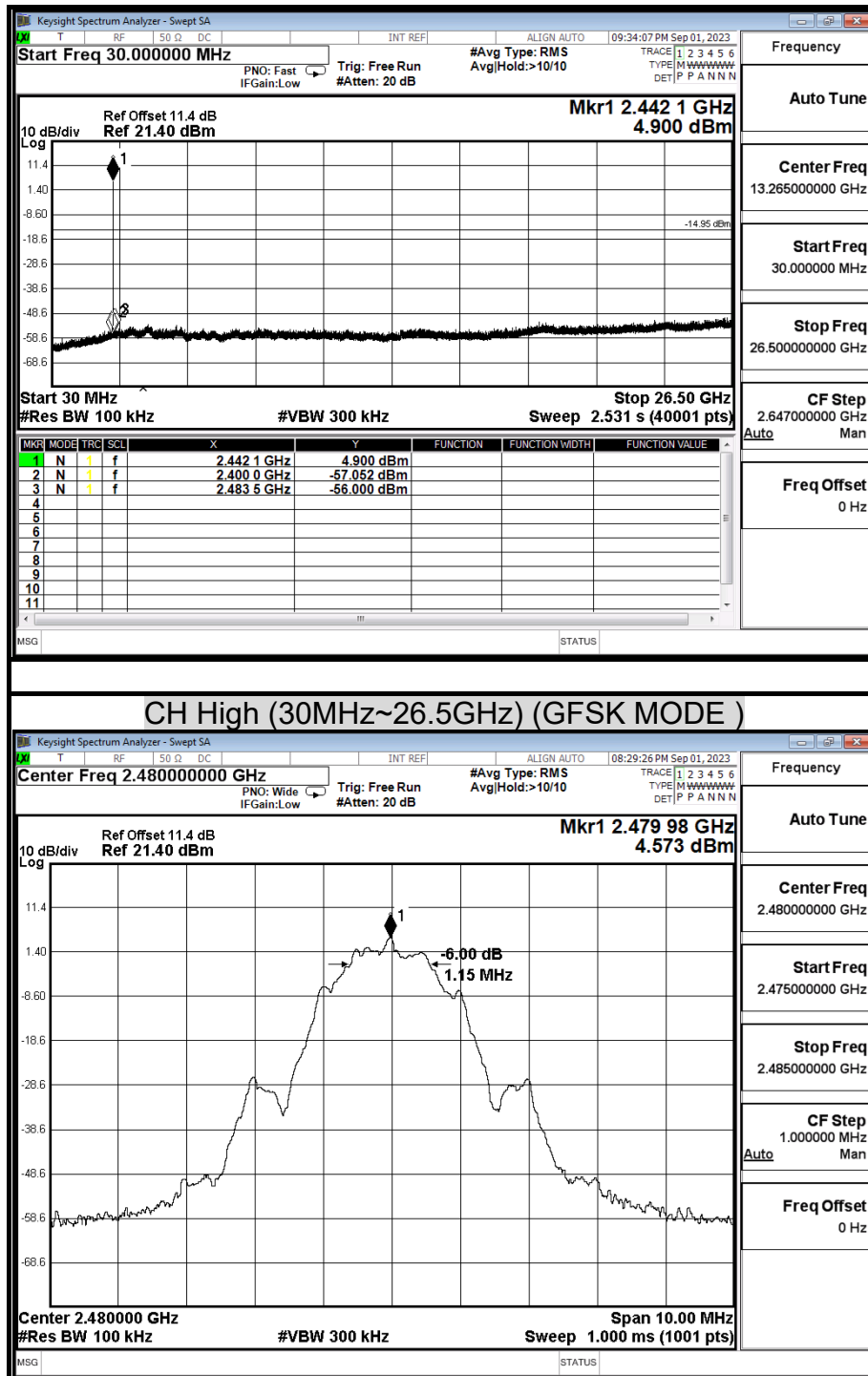
OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT

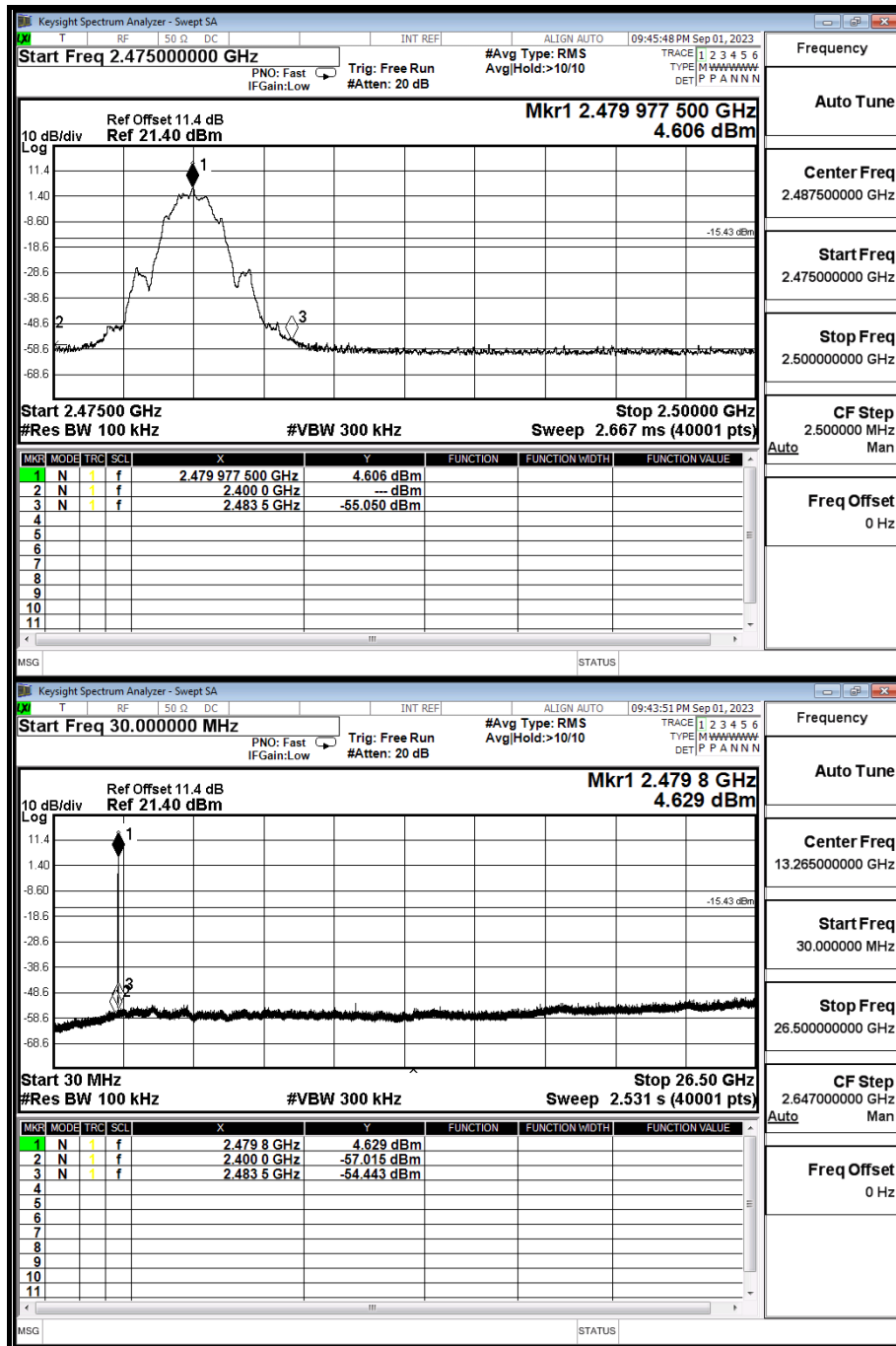
| | | | |
|-----------------|-------------|-----------|------------|
| Model Name | ACVR | Test By | Peter Chu |
| Temp & Humidity | 24.4°C, 45% | Test Date | 2023/08/28 |

(Bluetooth 5.0 (GFSK) MODE)









8.6 RADIATED EMISSIONS

8.6.1 TRANSMITTER RADIATED SUPURIOUS EMSSIONS

LIMITS

§ 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|----------------------------|-----------------------|-----------------|------------------|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| ¹ 0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | 8.025 - 8.5 |
| 4.17725 - 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | 9.0 - 9.2 |
| 4.20725 - 4.20775 | 73 - 74.6 | 1645.5 - 1646.5 | 9.3 - 9.5 |
| 6.215 - 6.218 | 74.8 - 75.2 | 1660 - 1710 | 10.6 - 12.7 |
| 6.26775 - 6.26825 | 108 - 121.94 | 1718.8 - 1722.2 | 13.25 - 13.4 |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | 14.47 - 14.5 |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 - 2390 | 15.35 - 16.2 |
| 8.362 - 8.366 | 156.52475 - 156.52525 | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 156.7 - 156.9 | 2655 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 162.0125 - 167.17 | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 167.72 - 173.2 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - 12.52025 | 240 - 285 | 3345.8 - 3338 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 322 - 335.4 | 3600 - 4400 | (²) |
| 13.36 - 13.41 | | | |

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

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

Report No.: TMTN2308001128NR

§ 15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table :

| Frequency (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|--------------------|--------------------------------------|----------------------------------|
| 30 - 88 | 100 ** | 3 |
| 88 - 216 | 150 ** | 3 |
| 216 - 960 | 200 ** | 3 |
| Above 960 | 500 | 3 |

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

§ 15.209 (b) In the emission table above, the tighter limit applies at the band edges.

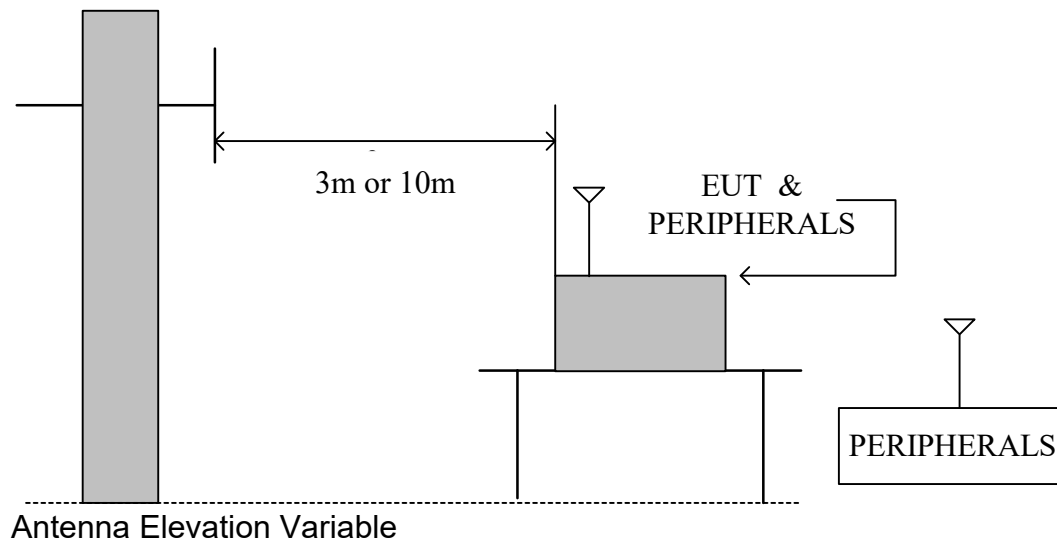
TEST EQUIPMENTS

The following test equipments are utilized in making the measurements contained in this report.

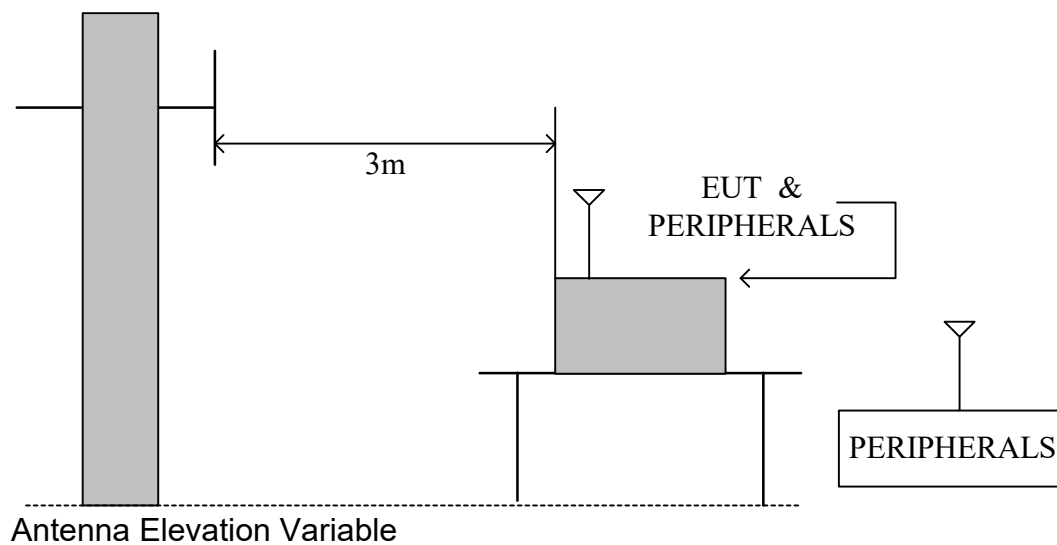
| Chamber Room #1166 | | | | | |
|----------------------------------|---|--------------|--------------------|------------------|-----------------|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due |
| Active Loop Antenna | ETS-LINDREN | 6502 | 8905-2356 | 09/04/2023 | 09/03/2024 |
| Attenuator | MCL | BW-S15W5 | 0535 | 01/19/2023 | 01/18/2024 |
| Band Reject Filter | MICRO-TRONICS | HPM13525 | 006 | 01/19/2023 | 01/18/2024 |
| Band Reject Filter | MICRO-TRONICS | HP50107-01 | 001 | 01/19/2023 | 01/18/2024 |
| Bilog Antenna With 6dB Attenator | SUNOL SCIENCES & EMCI | JB1 & N-6-06 | A021306 & AT-N0682 | 10/11/2022 | 10/10/2023 |
| Cable | EMCI | EM102-KMKM | CB1166-01 | 06/17/2023 | 06/16/2024 |
| Double Ridged Guide Horn Antenna | ETS-LINDGREN | 3116 | 00078900 | 03/25/2023 | 03/24/2024 |
| EMI Test Receiver | R&S | ESCI | 101203 | 10/19/2022 | 10/18/2023 |
| EXA Spectrum Analyzer | KEYSIGHT | N9010A | MY54430216 | 07/25/2023 | 07/24/2024 |
| Double Ridged Guide Horn Antenna | SCHWARZBECK | BBHA 9120D | 9120D-788(98006) | 04/18/2023 | 04/17/2024 |
| Notch Filter | MICRO-TRONICS | BRM50702-01 | 018 | 01/19/2023 | 01/18/2024 |
| Pre-Amplifier | EMCI | EMC012645 | 980098 | 01/19/2023 | 01/18/2024 |
| Pre-Amplifier | Com-Power | PAM-840A | 461378 | 06/07/2023 | 06/06/2024 |
| Software | Excel(ccs-o6-2020 v1.1) , e3(v6.101222) | | | | |

TEST SETUP

The diagram below shows the test setup that is utilized to make the measurements for emission from 30 to 1GHz.



The diagram below shows the test setup that is utilized to make the measurements for emission above 1GHz.



TEST PROCEDURE

- a. The EUT was placed on the top of a rotating table 0.8/1.5 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. While measuring the radiated emission below 1GHz, the EUT was set 3/10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. While measuring the radiated emission above 1GHz, the EUT was set 3 meters away from the interference-receiving antenna
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarization 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 table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. The tests were performed in accordance with 558074 D01 DTS Meas Guidance v03r03.

NOTE :

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.
4. No emission is found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz)

TEST RESULTS

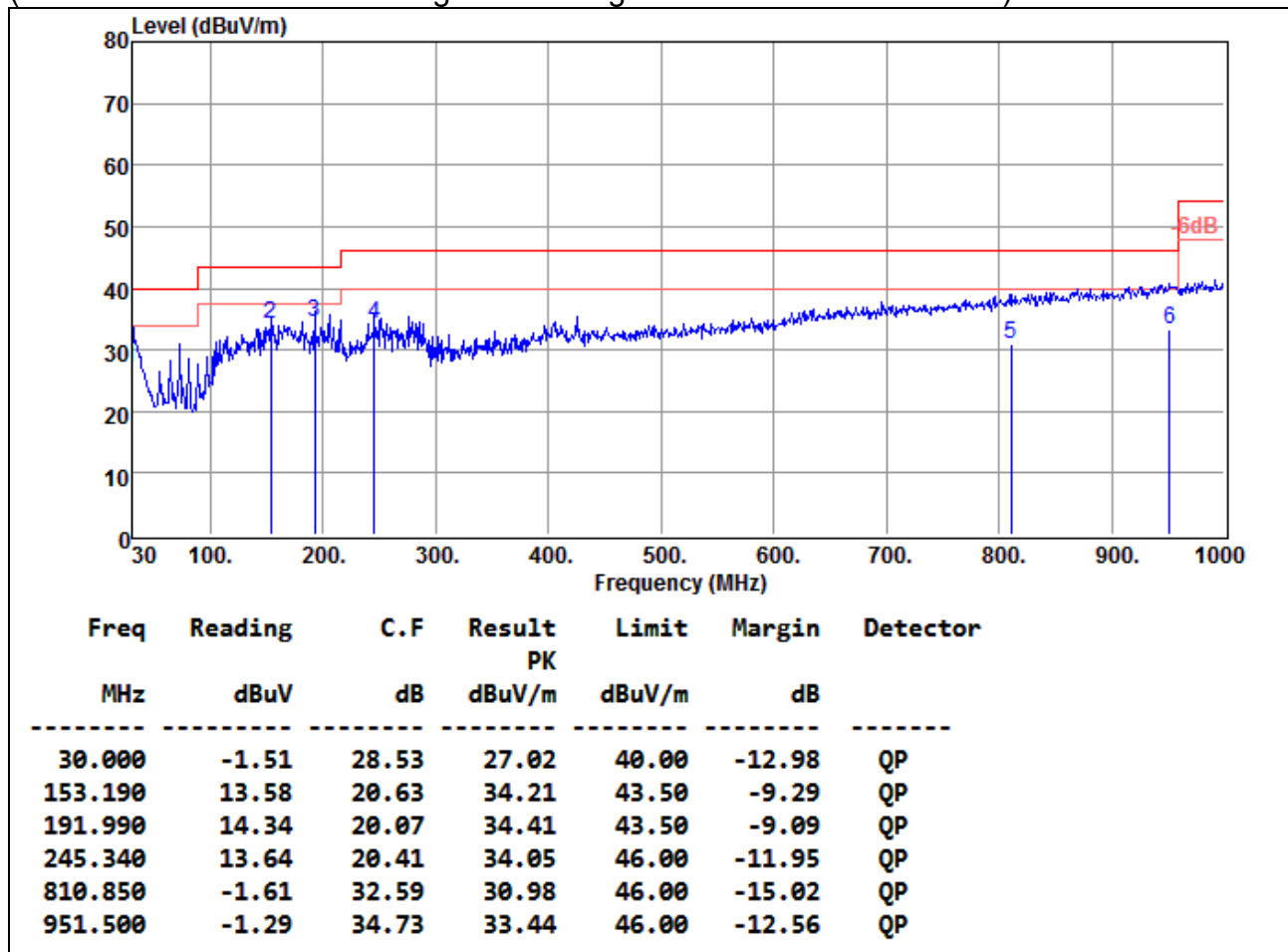
No non-compliance noted.

8.6.2 WORST-CASE RADIATED EMISSION BELOW 1 GHz

| | | | |
|--------------|--------------|----------------|------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | TX | TEMP& Humidity | 24.2°C/52% |

Horizontal

(The chart below shows the highest readings taken from the final data.)



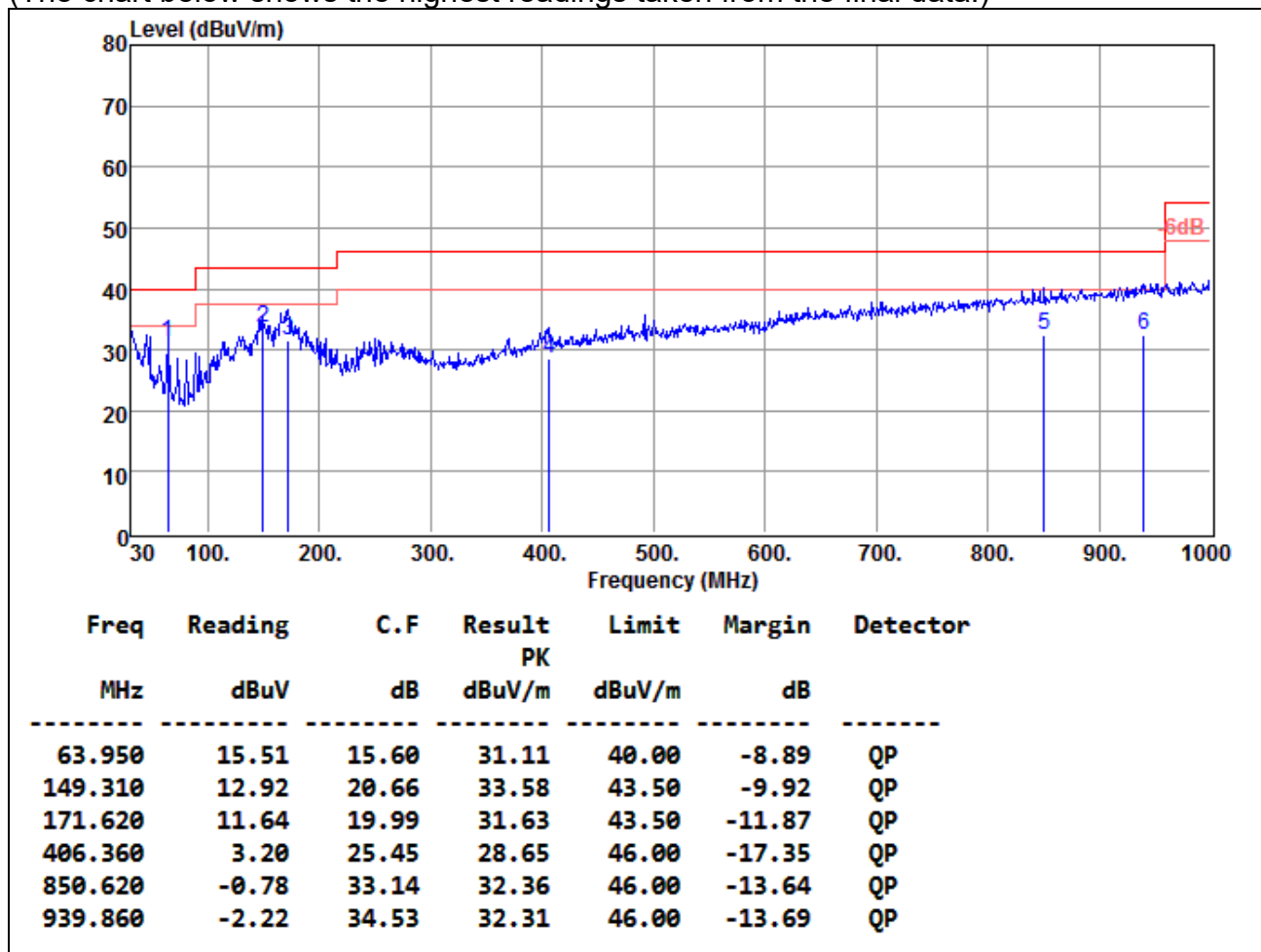
Remark:

1. No emission found between lowest internal used/generated frequency in 9kHz~30MHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.
3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>10dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Result (Emission at 3m Level) = Meter Reading + C.F
C.F = Antenna Factor +Cable Loss
Margin= Result -Limits
6. That the limit for signals below 1GHz is a QP limit and peak readings are below the QP limit.
7. The fundamental signal is not shown in the test data because measurements at fundamental frequency are shown separately and were ignored during the 30 – 1000 MHz scan.

| | | | |
|--------------|--------------|----------------|------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | TX | TEMP& Humidity | 24.2°C/52% |

Vertical

(The chart below shows the highest readings taken from the final data.)



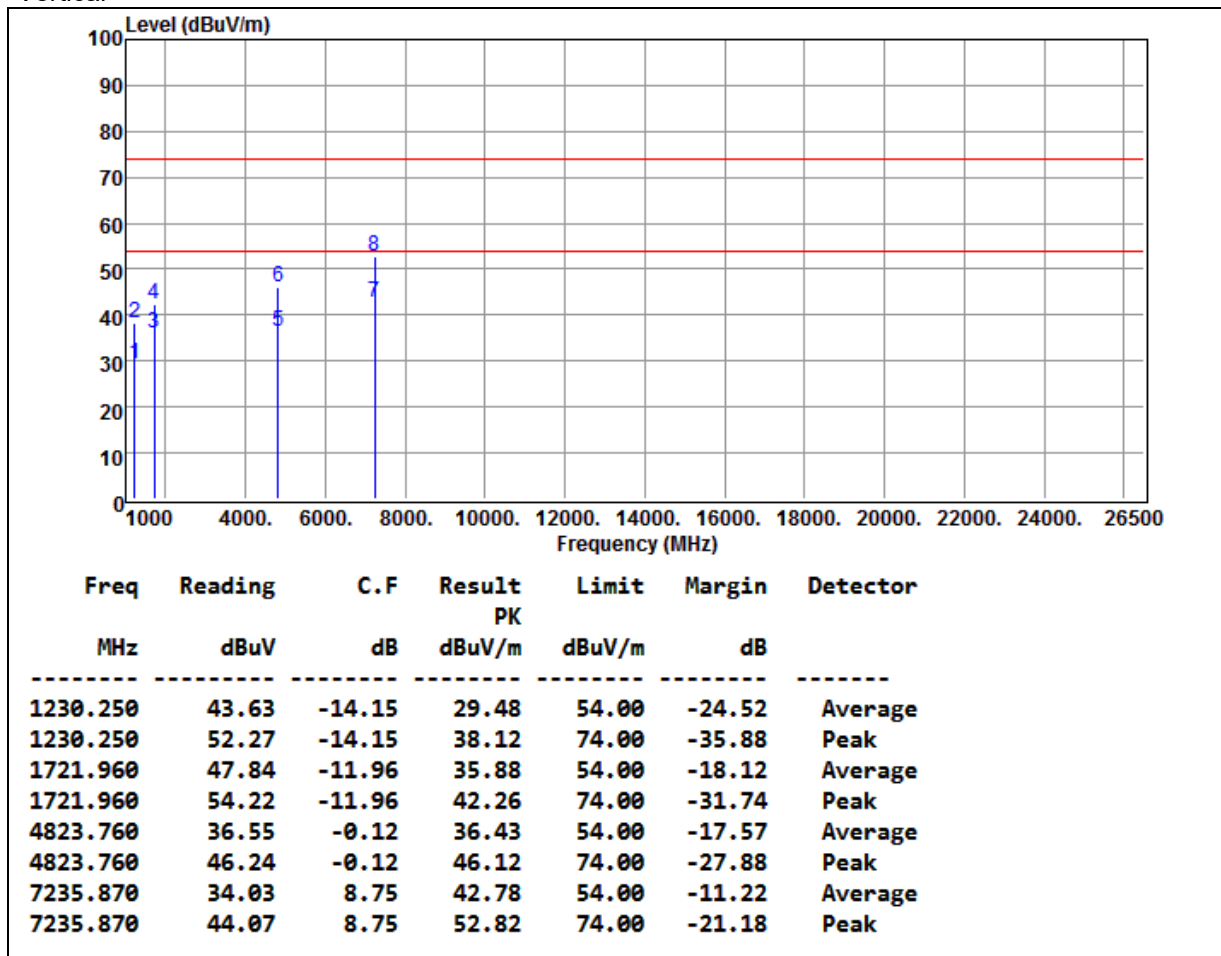
Remark:

1. No emission found between lowest internal used/generated frequency in 9kHz~30MHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.
3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>10dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Result (Emission at 3m Level) = Meter Reading + C.F
C.F = Antenna Factor +Cable Loss
Margin= Result -Limits
6. That the limit for signals below 1GHz is a QP limit and peak readings are below the QP limit.
7. The fundamental signal is not shown in the test data because measurements at fundamental frequency are shown separately and were ignored during the 30 – 1000 MHz scan.

8.6.3 TRANSMITTER RADIATED EMISSION ABOVE 1 GHz

| | | | |
|--------------|--------------------------|----------------|------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | IEEE 802.11b TX (CH Low) | TEMP& Humidity | 24.2°C/43% |

Vertical

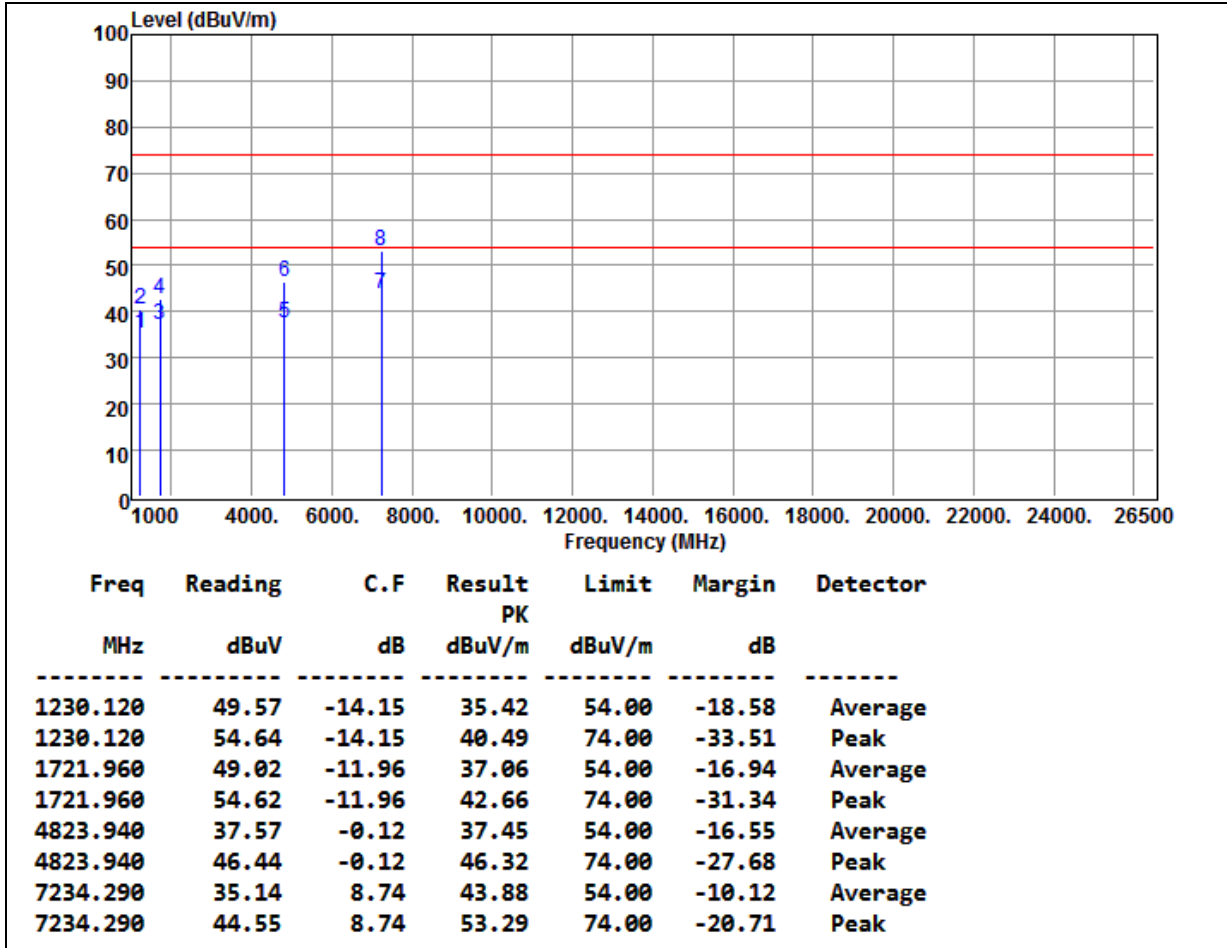


Remark:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (2.4~2.5(GHz))
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW \geq 1/T
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.
6. *=Restricted bands of operation

| | | | |
|---------------------|--------------------------|---------------------------|------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | IEEE 802.11b TX (CH Low) | TEMP& Humidity | 24.2°C/43% |

Horizontal

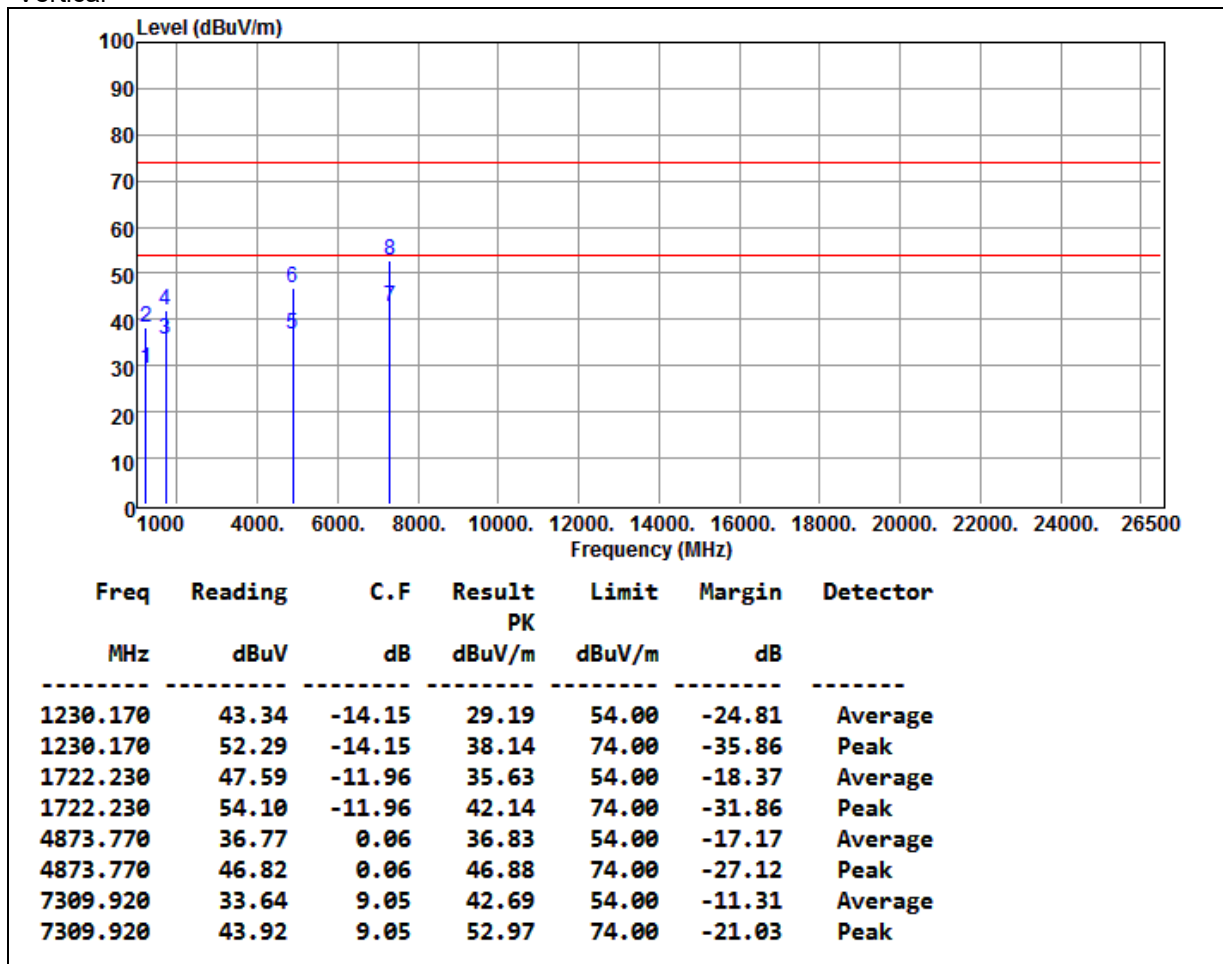


Remark:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (2.4~2.5(GHz))
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW ≥ 1/T
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.
6. *=Restricted bands of operation

| | | | |
|--------------|-----------------------------|----------------|------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | IEEE 802.11b TX (CH Middle) | TEMP& Humidity | 24.2°C/43% |

Vertical

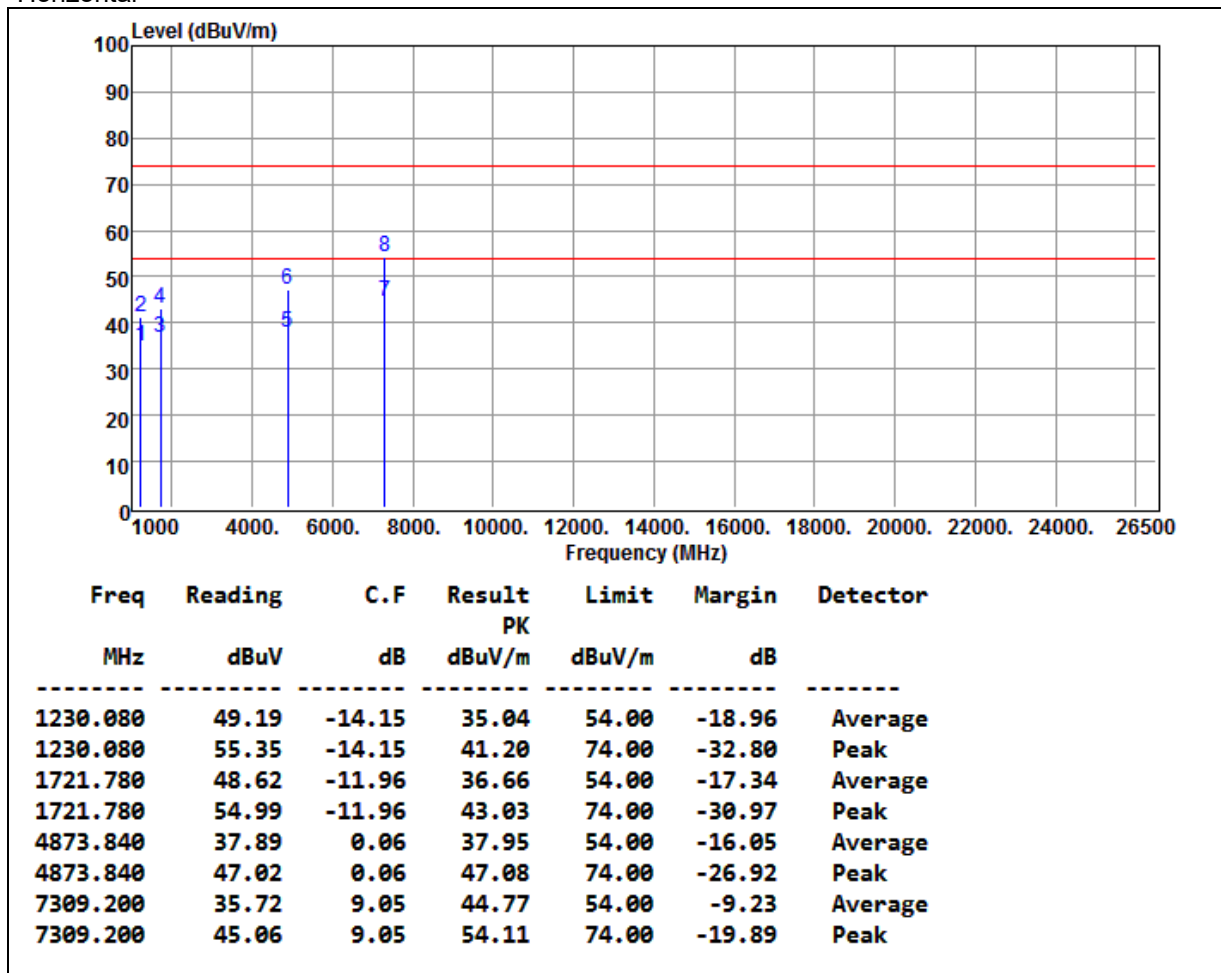


Remark:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (2.4~2.5(GHz))
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW ≥ 1/T
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.
6. *=Restricted bands of operation

| | | | |
|--------------|-----------------------------|----------------|------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | IEEE 802.11b TX (CH Middle) | TEMP& Humidity | 24.2°C/43% |

Horizontal

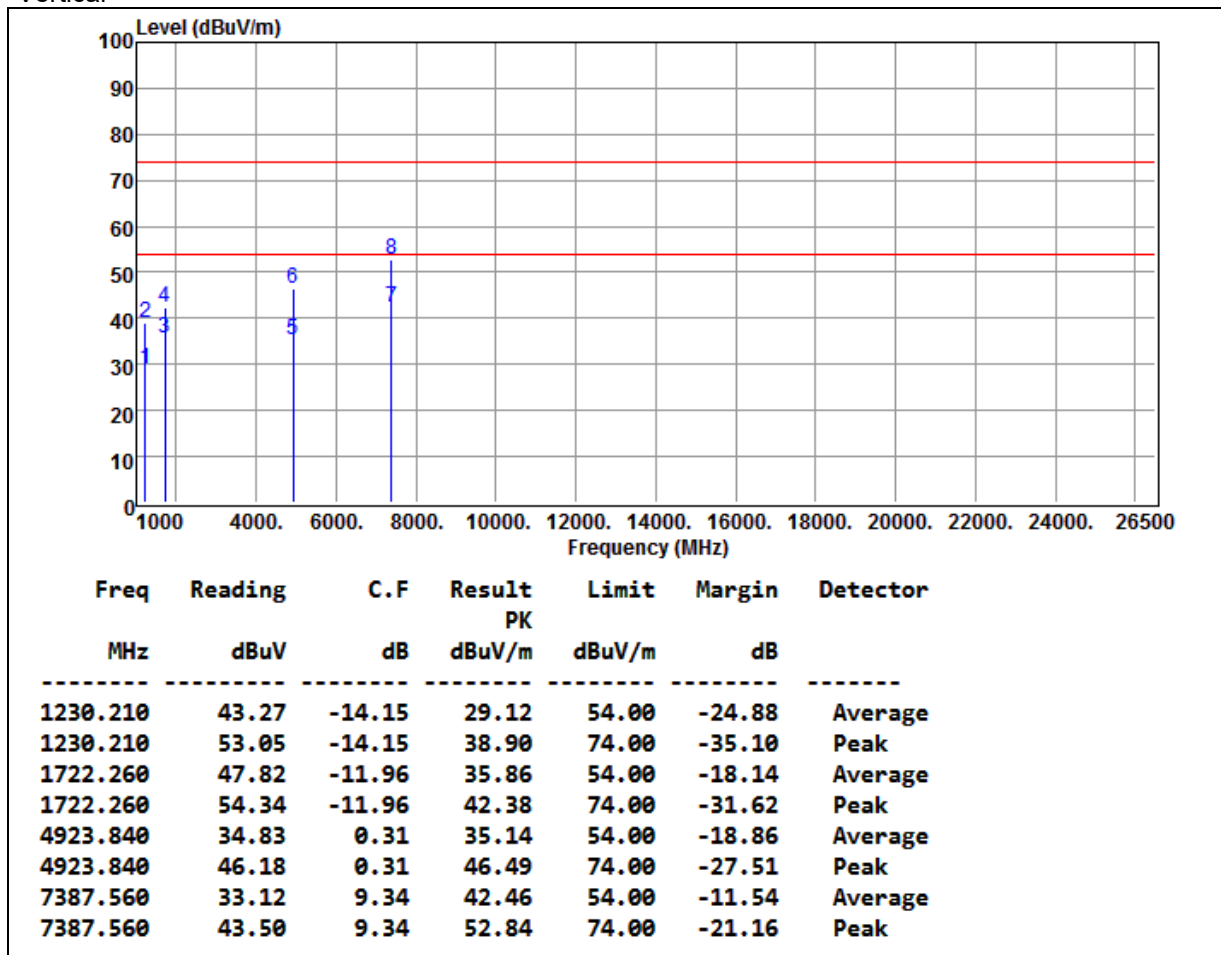


Remark:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (2.4~2.5(GHz))
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW \geq 1/T
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.
6. *=Restricted bands of operation

| | | | |
|--------------|---------------------------|----------------|------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | IEEE 802.11b TX (CH High) | TEMP& Humidity | 24.2°C/43% |

Vertical

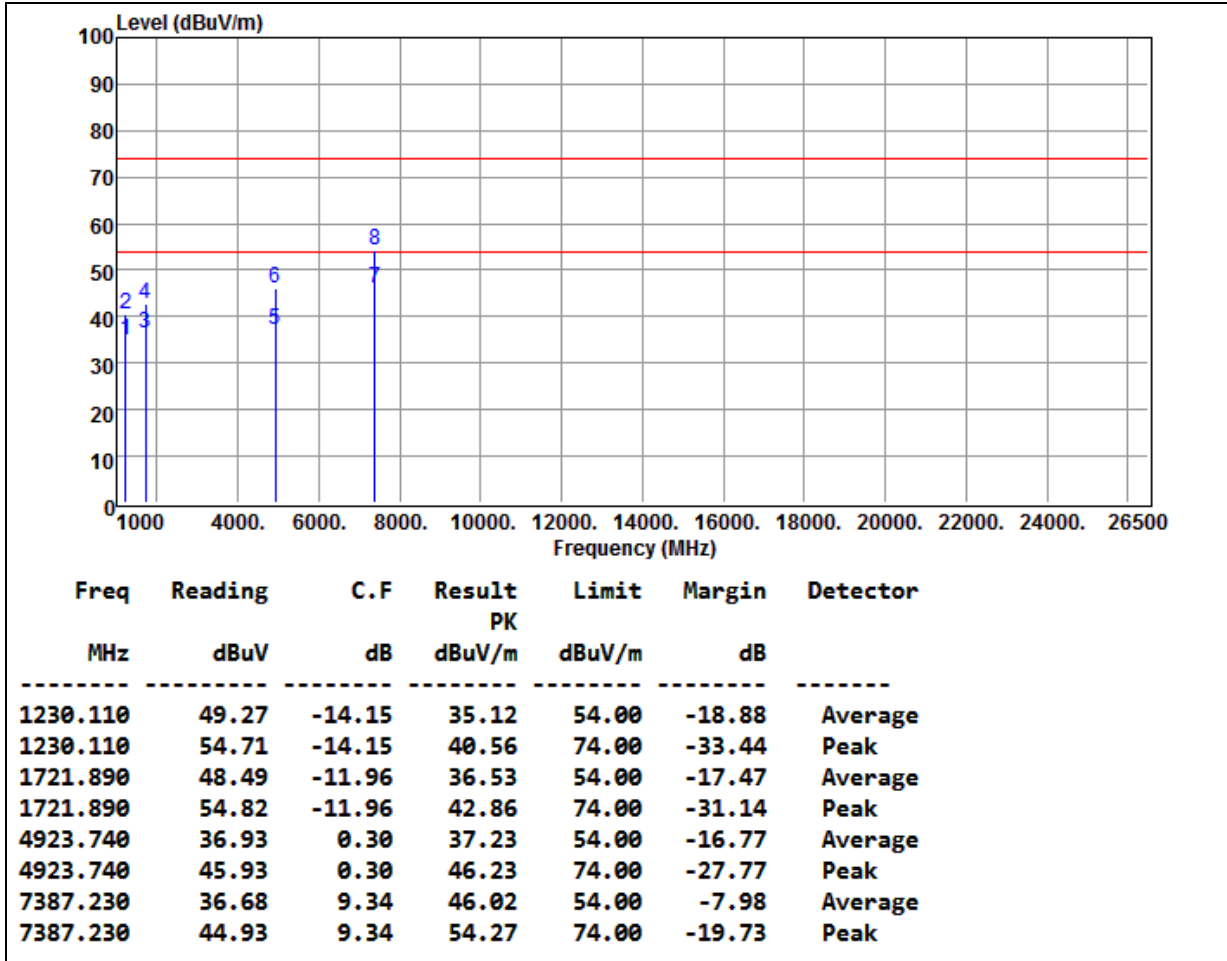


Remark:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (2.4~2.5(GHz))
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW $\geq 1/T$
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.
6. *=Restricted bands of operation

| | | | |
|--------------|---------------------------|----------------|------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | IEEE 802.11b TX (CH High) | TEMP& Humidity | 24.2°C/43% |

Horizontal

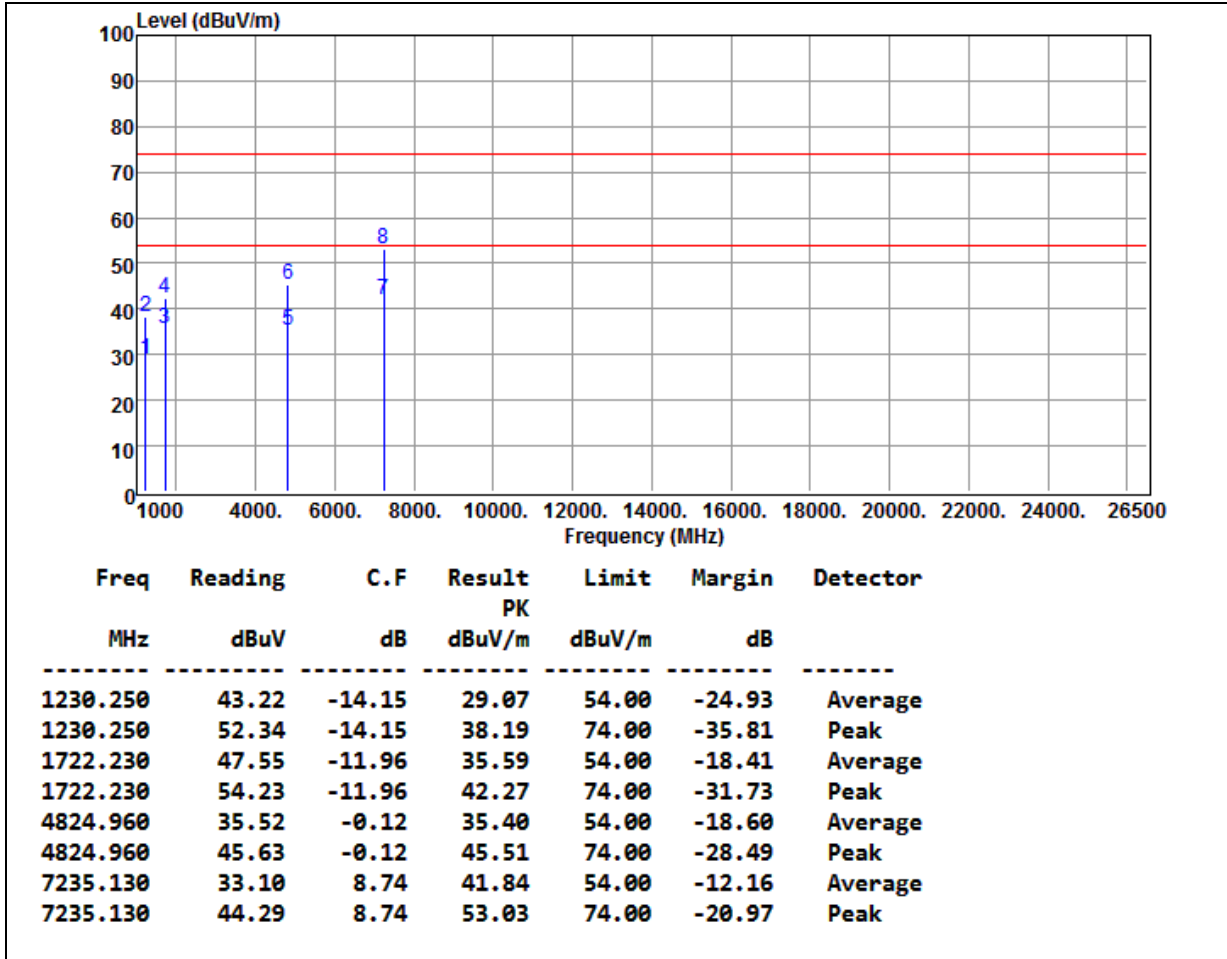


Remark:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (2.4~2.5(GHz))
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW $\geq 1/T$
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.
6. *=Restricted bands of operation

| | | | |
|--------------|--------------------------|----------------|------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | IEEE 802.11g TX (CH Low) | TEMP& Humidity | 24.2°C/43% |

Vertical

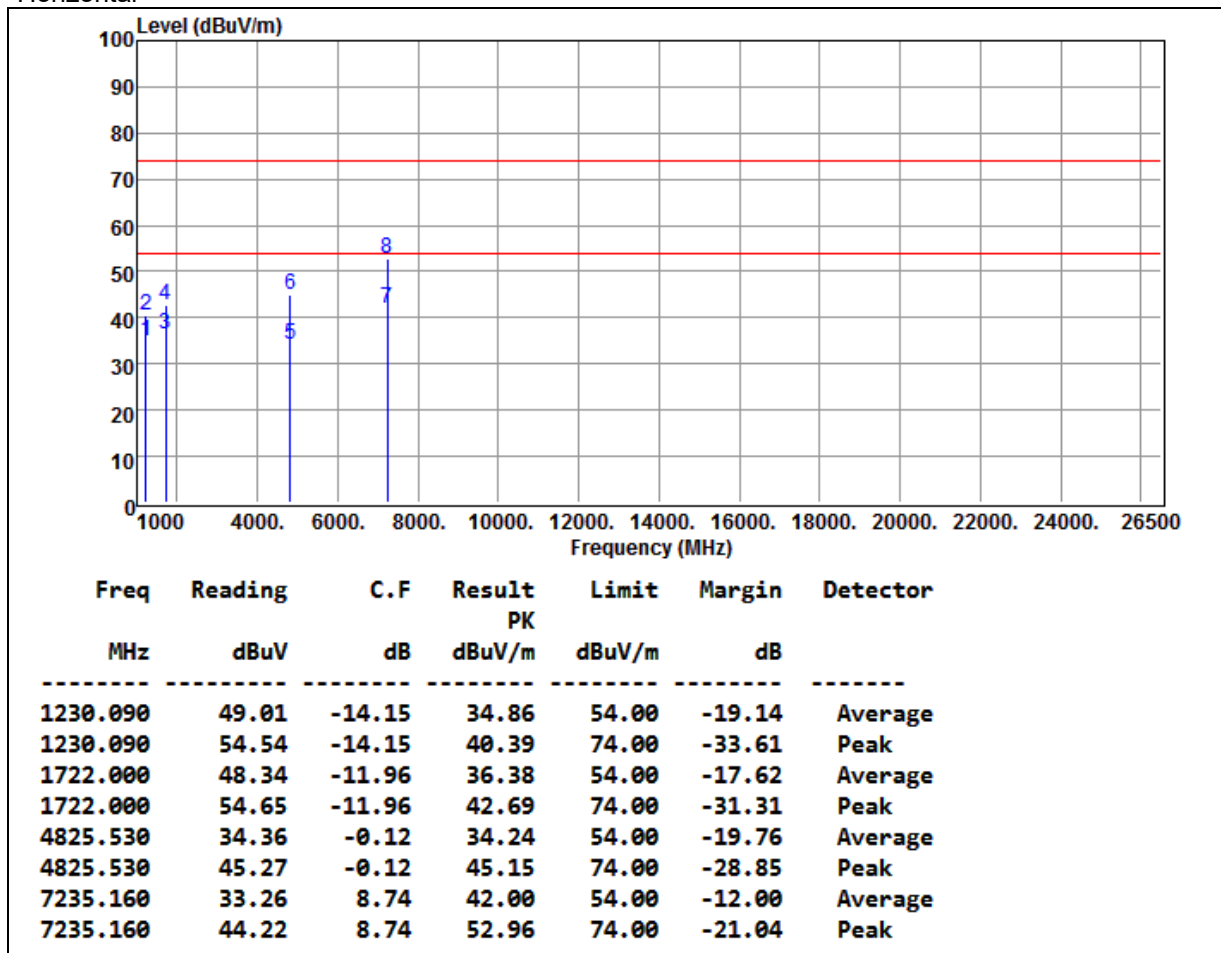


Remark:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (2.4~2.5(GHz))
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW ≥ 1/T
3. The result basic equation calculation is as follow:
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| | | | |
|--------------|--------------------------|----------------|------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | IEEE 802.11g TX (CH Low) | TEMP& Humidity | 24.2°C/43% |

Horizontal

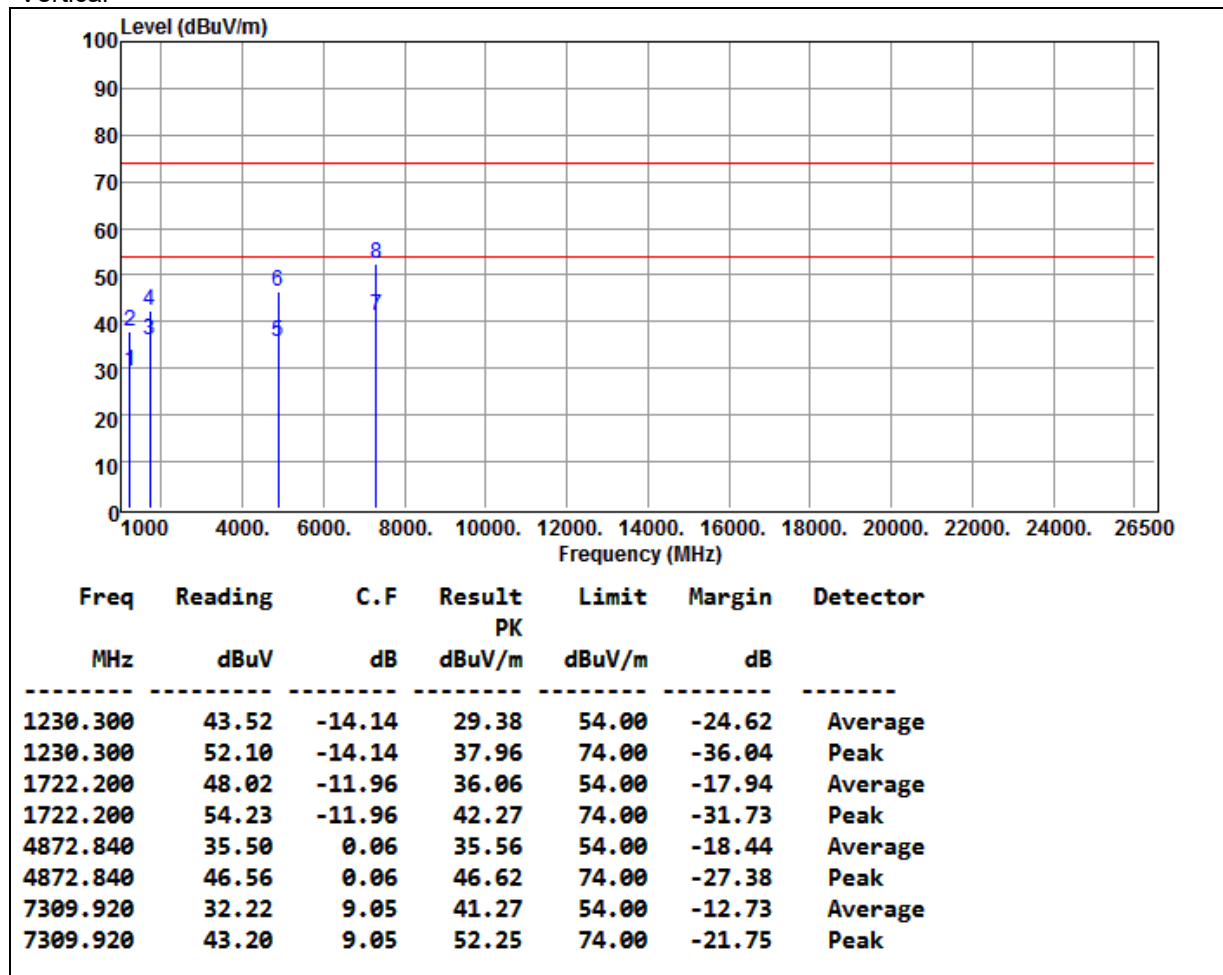


Remark:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (2.4~2.5(GHz))
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW $\geq 1/T$
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.
6. *=Restricted bands of operation

| | | | |
|--------------|-----------------------------|----------------|------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | IEEE 802.11g TX (CH Middle) | TEMP& Humidity | 24.2°C/43% |

Vertical

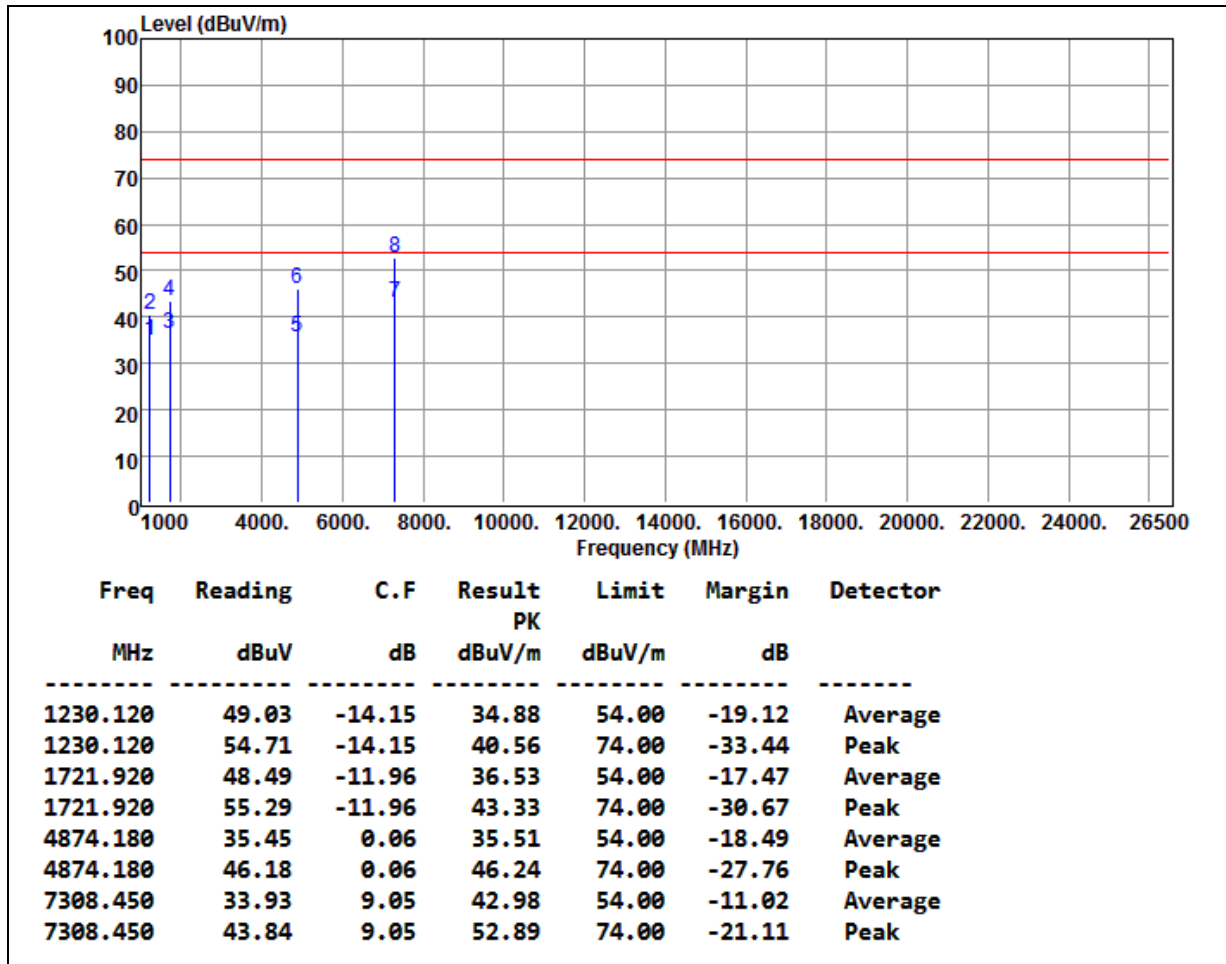


Remark:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (2.4~2.5(GHz))
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW ≥ 1/T
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.
6. *=Restricted bands of operation

| | | | |
|--------------|-----------------------------|----------------|------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | IEEE 802.11g TX (CH Middle) | TEMP& Humidity | 24.2°C/43% |

Horizontal

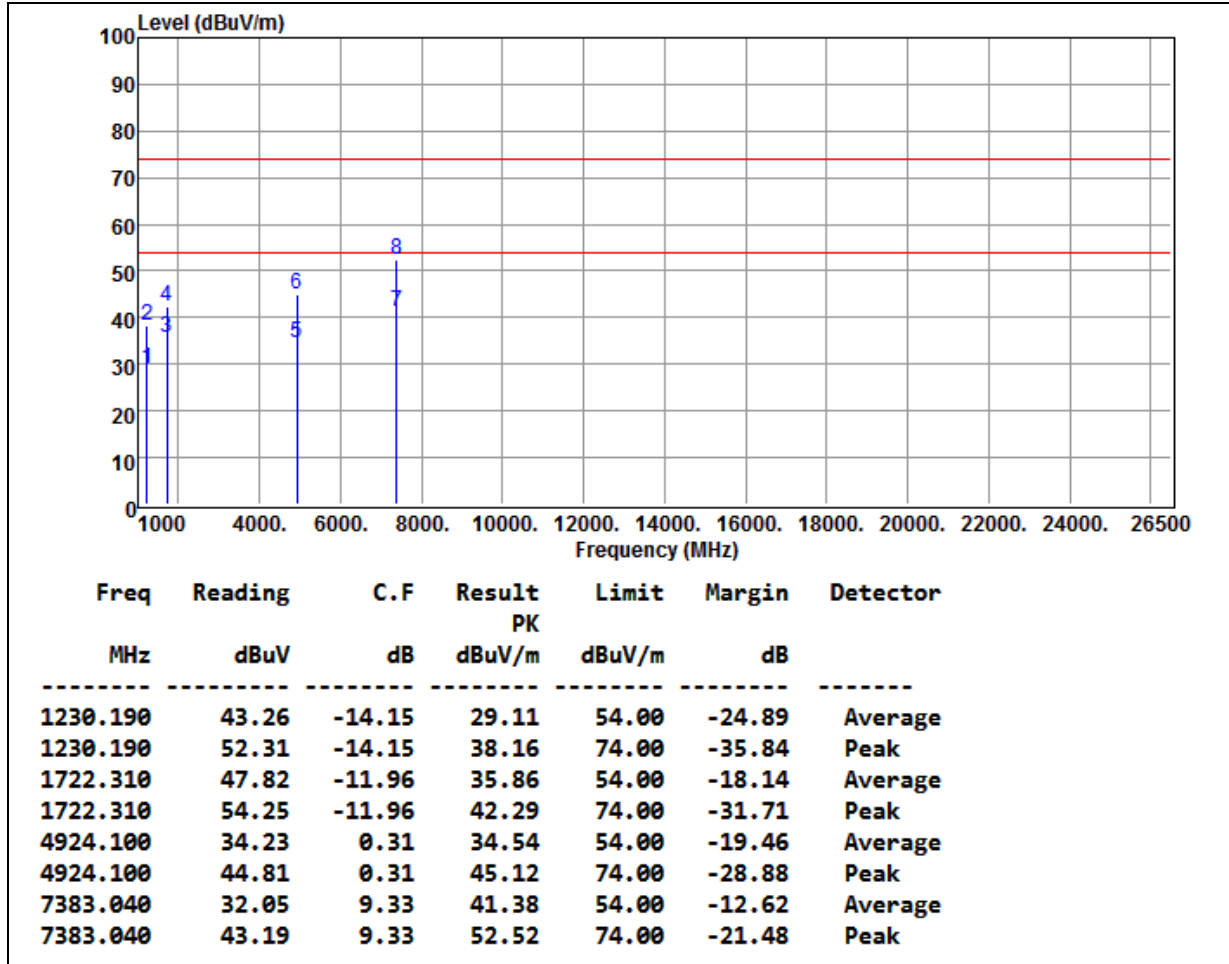


Remark:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (2.4~2.5(GHz))
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW \geq 1/T
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.
6. *=Restricted bands of operation

| | | | |
|--------------|---------------------------|----------------|------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | IEEE 802.11g TX (CH High) | TEMP& Humidity | 24.2°C/43% |

Vertical

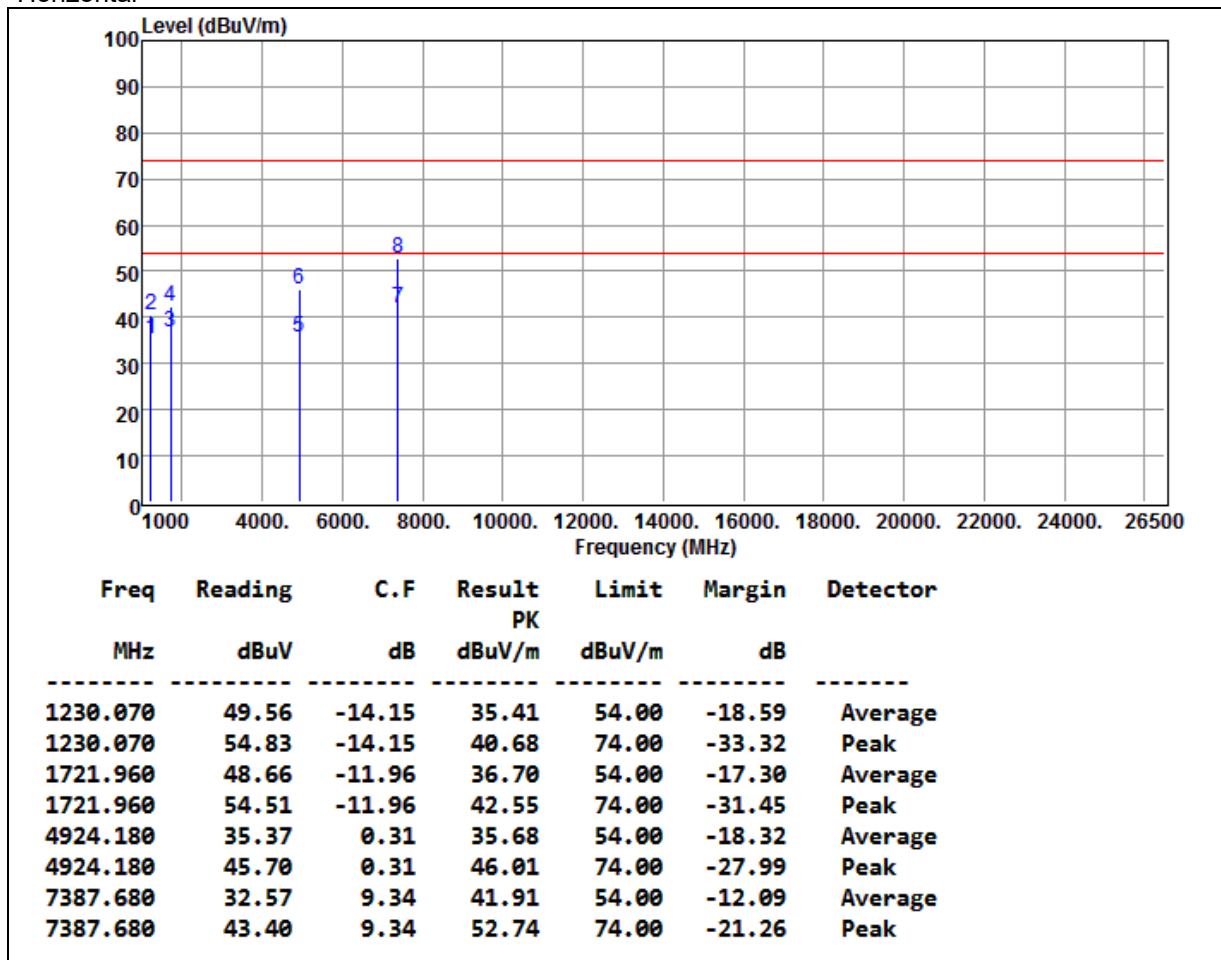


Remark:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (2.4~2.5(GHz))
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW $\geq 1/T$
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.
6. *=Restricted bands of operation

| | | | |
|--------------|---------------------------|----------------|------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | IEEE 802.11g TX (CH High) | TEMP& Humidity | 24.2°C/43% |

Horizontal

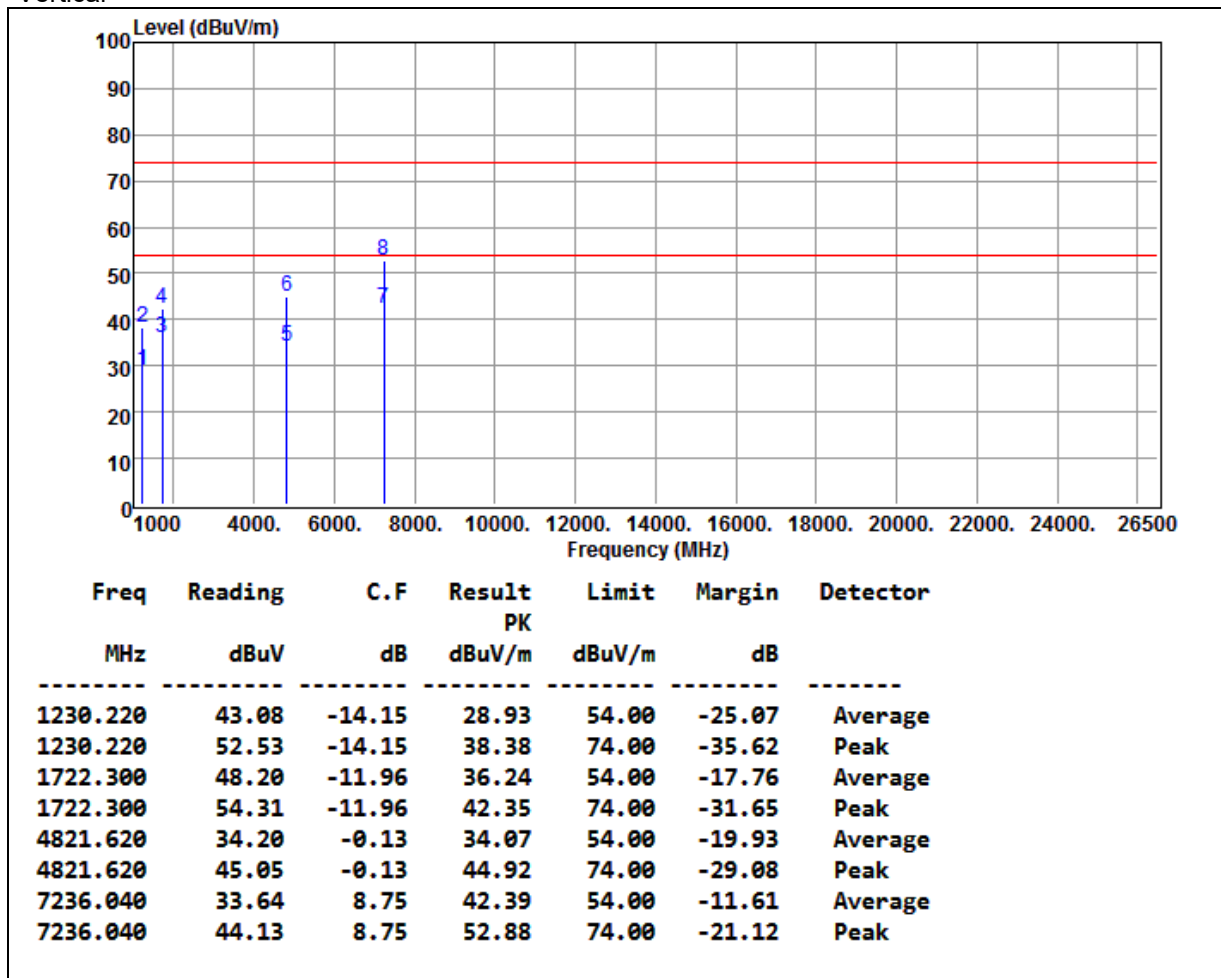


Remark:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (2.4~2.5(GHz))
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW ≥ 1/T
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.
6. *=Restricted bands of operation

| | | | |
|--------------|-------------------------------|----------------|------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | IEEE 802.11n HT20 TX (CH Low) | TEMP& Humidity | 24.2°C/43% |

Vertical

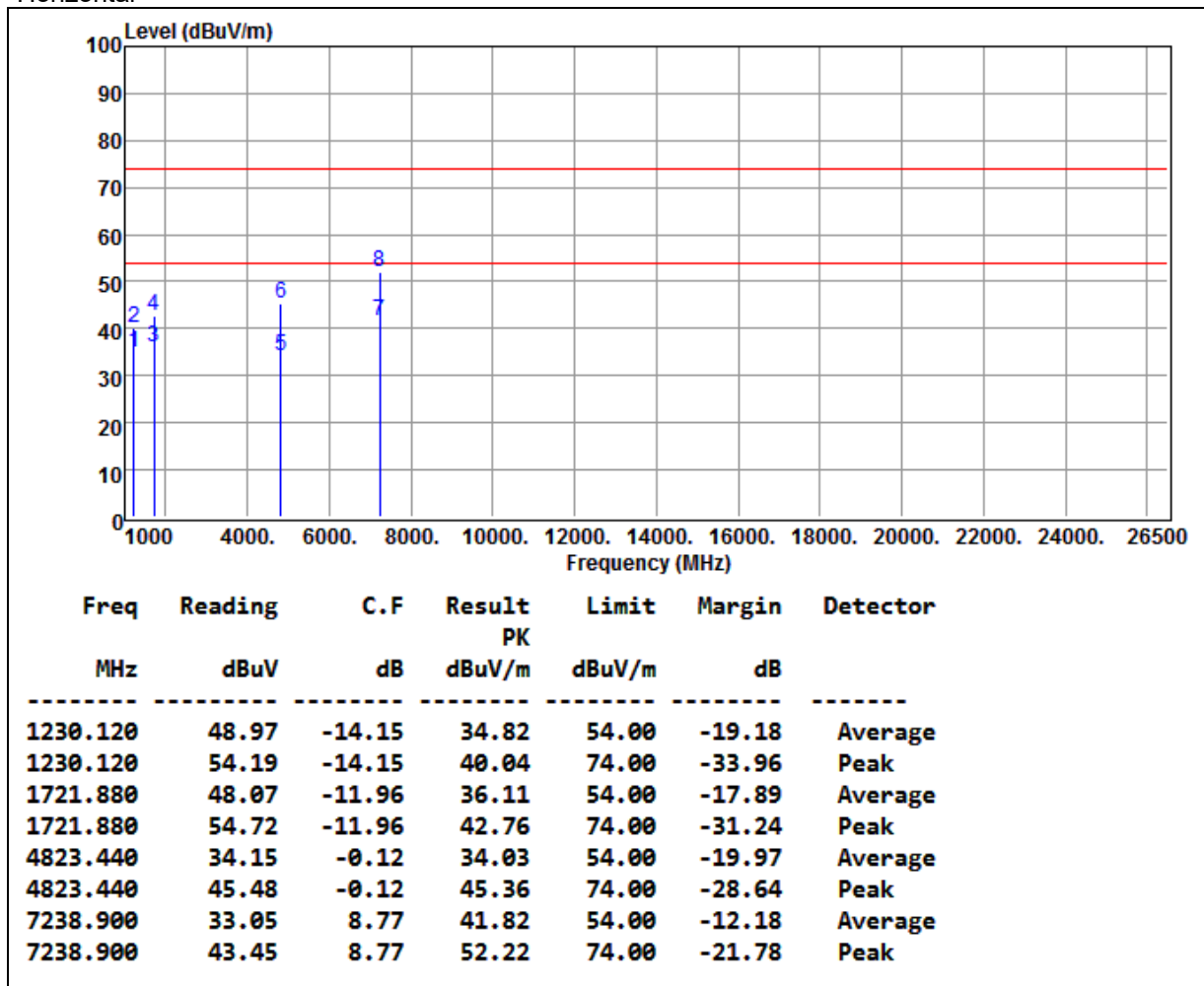


Remark:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (2.4~2.5(GHz))
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW ≥ 1/T
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.
6. *=Restricted bands of operation

| | | | |
|--------------|-------------------------------|----------------|------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | IEEE 802.11n HT20 TX (CH Low) | TEMP& Humidity | 24.2°C/43% |

Horizontal

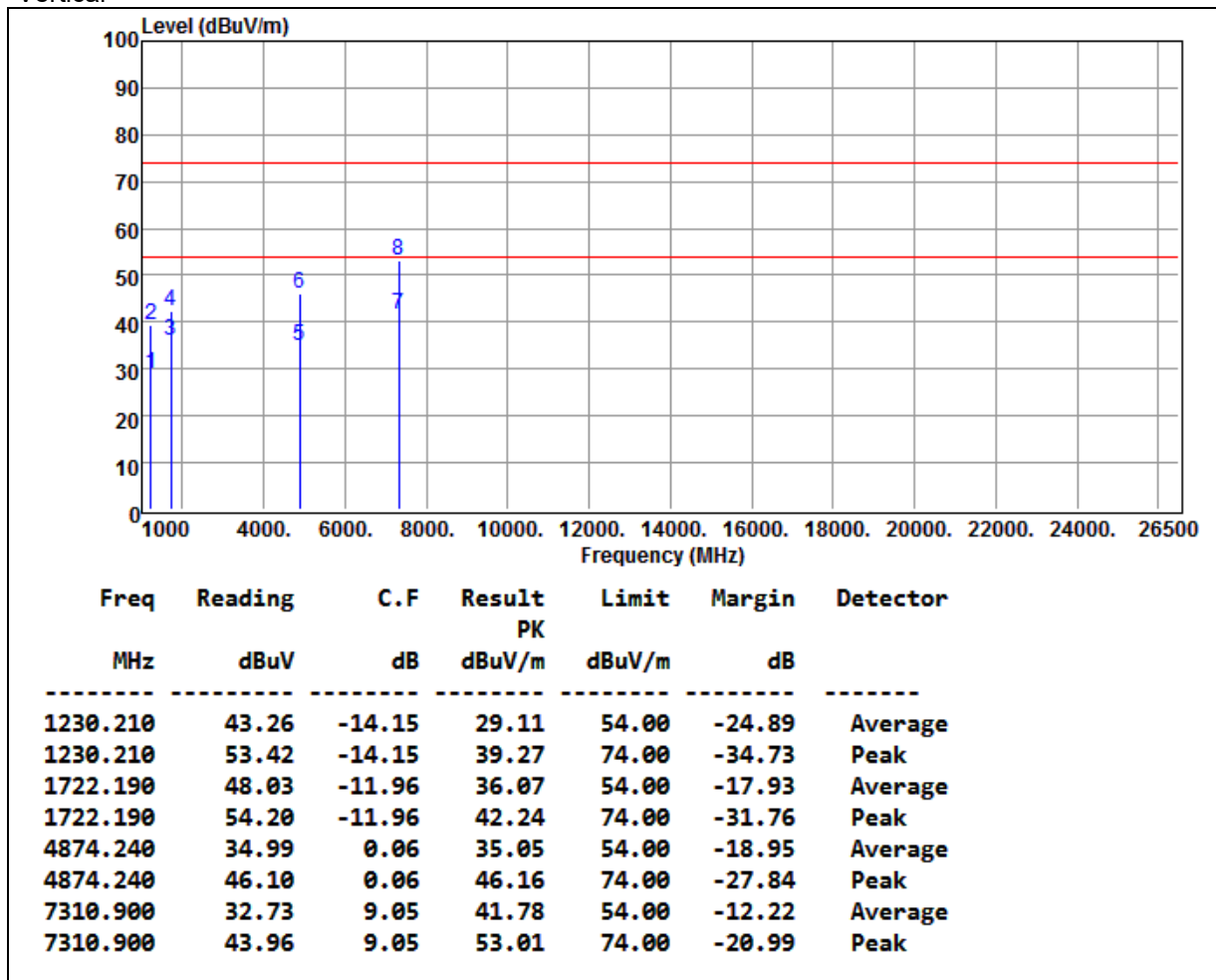


Remark:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (2.4~2.5(GHz))
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW $\geq 1/T$
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.
6. *=Restricted bands of operation

| | | | |
|--------------|----------------------------------|----------------|------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | IEEE 802.11n HT20 TX (CH Middle) | TEMP& Humidity | 24.2°C/43% |

Vertical

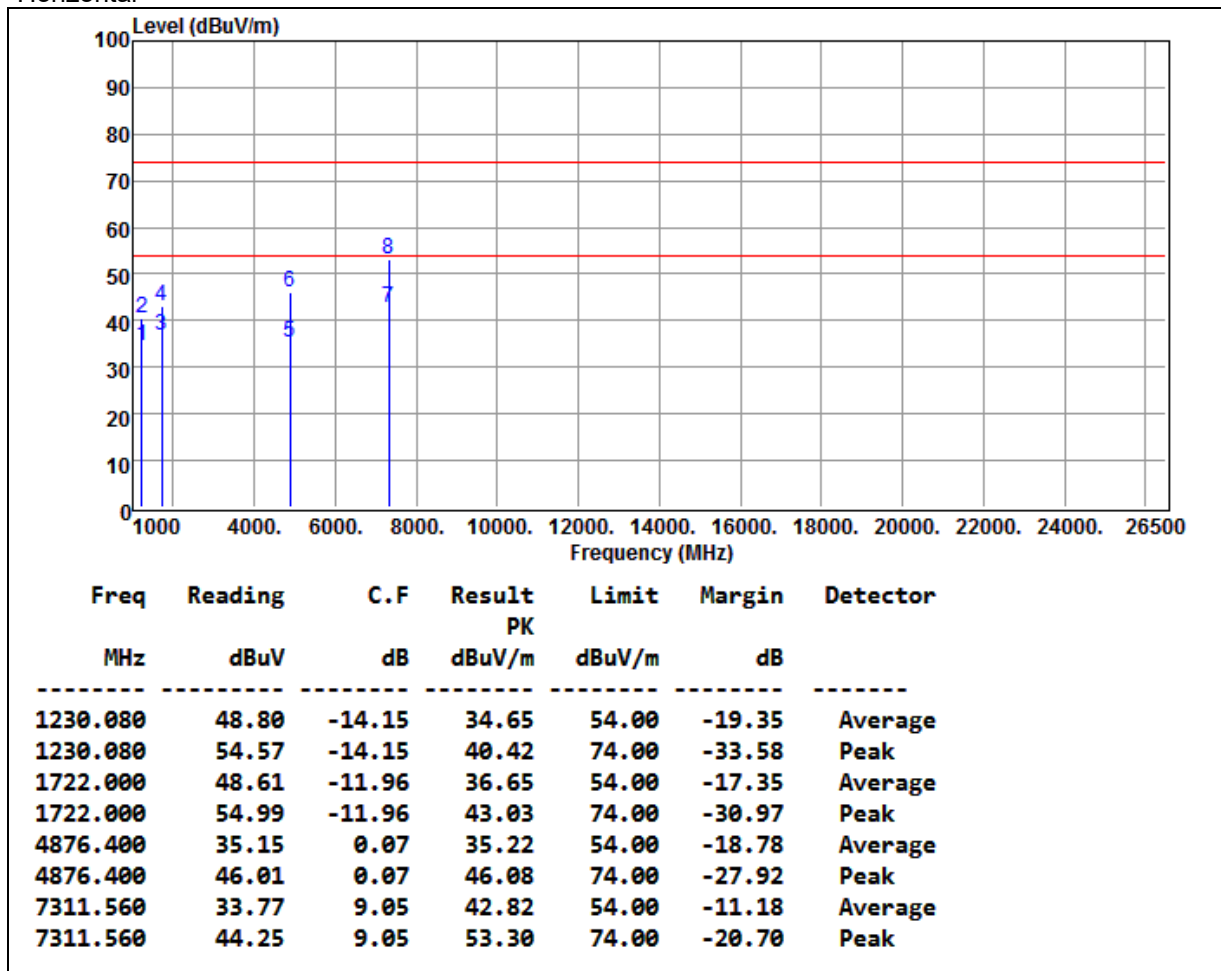


Remark:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (2.4~2.5(GHz))
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW ≥ 1/T
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.
6. *=Restricted bands of operation

| | | | |
|--------------|----------------------------------|----------------|------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | IEEE 802.11n HT20 TX (CH Middle) | TEMP& Humidity | 24.2°C/43% |

Horizontal

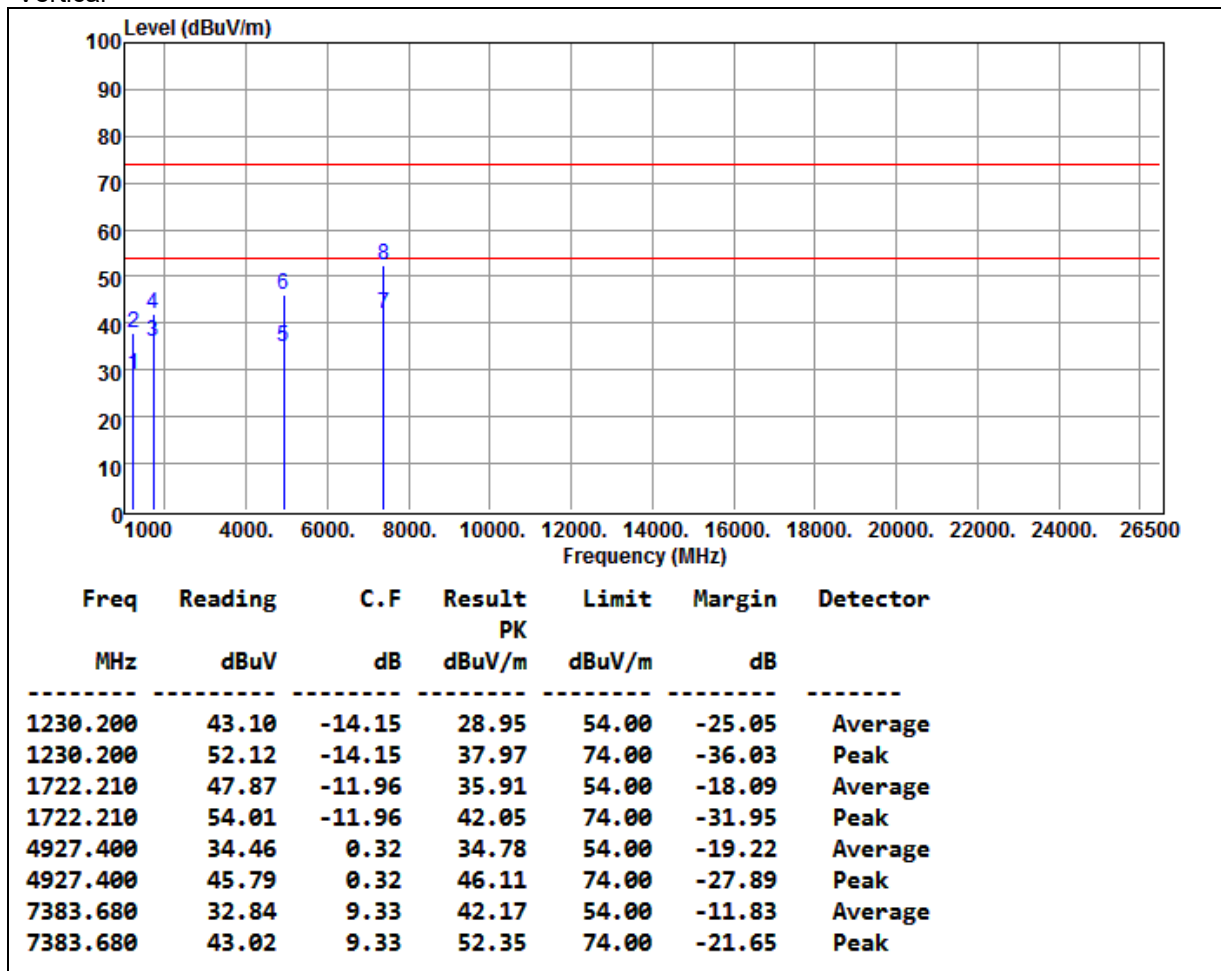


Remark:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (2.4~2.5(GHz))
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW $\geq 1/T$
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.
6. *=Restricted bands of operation

| | | | |
|--------------|--------------------------------|----------------|------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | IEEE 802.11n HT20 TX (CH High) | TEMP& Humidity | 24.2°C/43% |

Vertical

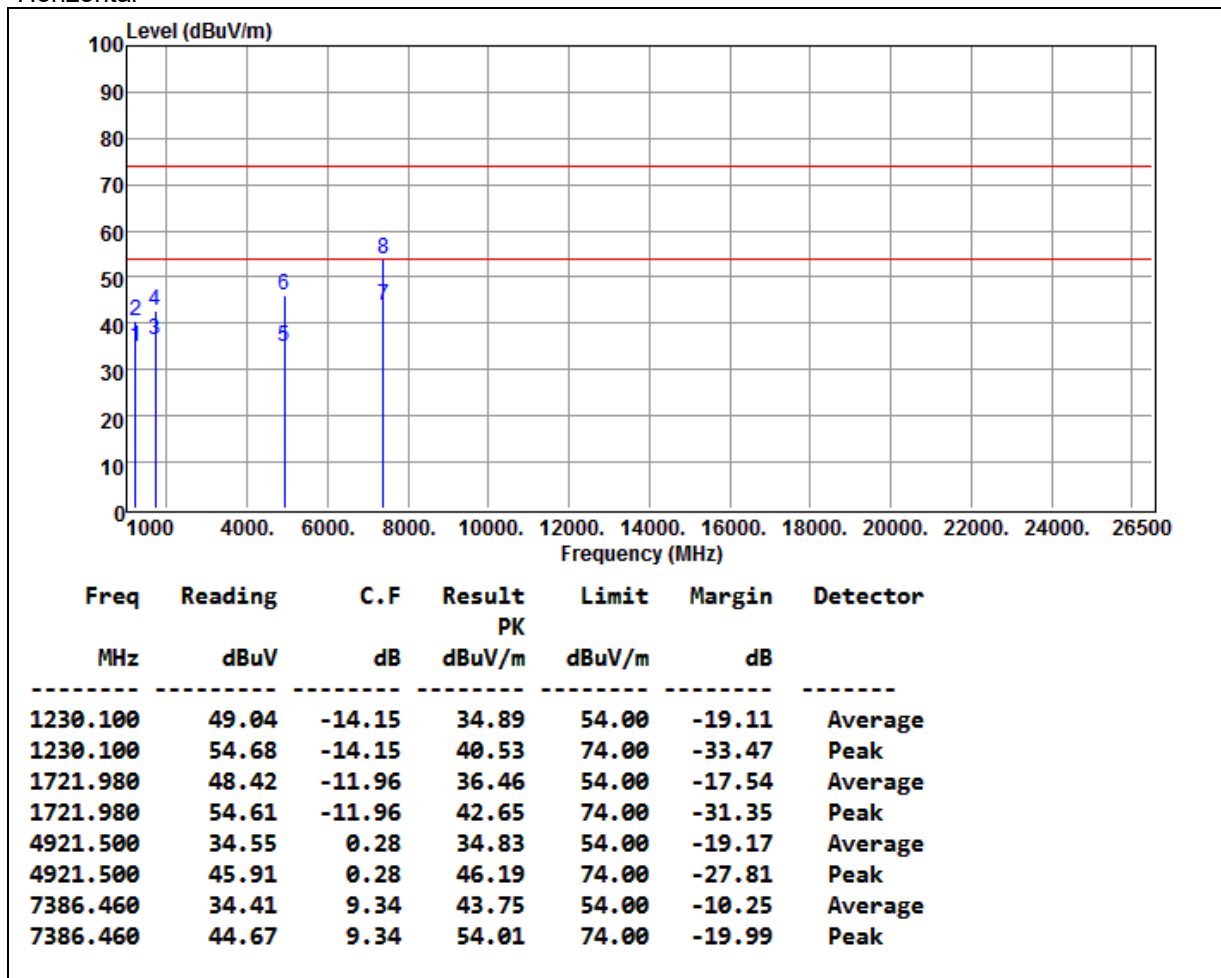


Remark:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (2.4~2.5(GHz))
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW \geq 1/T
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6. *=Restricted bands of operation

| | | | |
|--------------|--------------------------------|----------------|------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | IEEE 802.11n HT20 TX (CH High) | TEMP& Humidity | 24.2°C/43% |

Horizontal

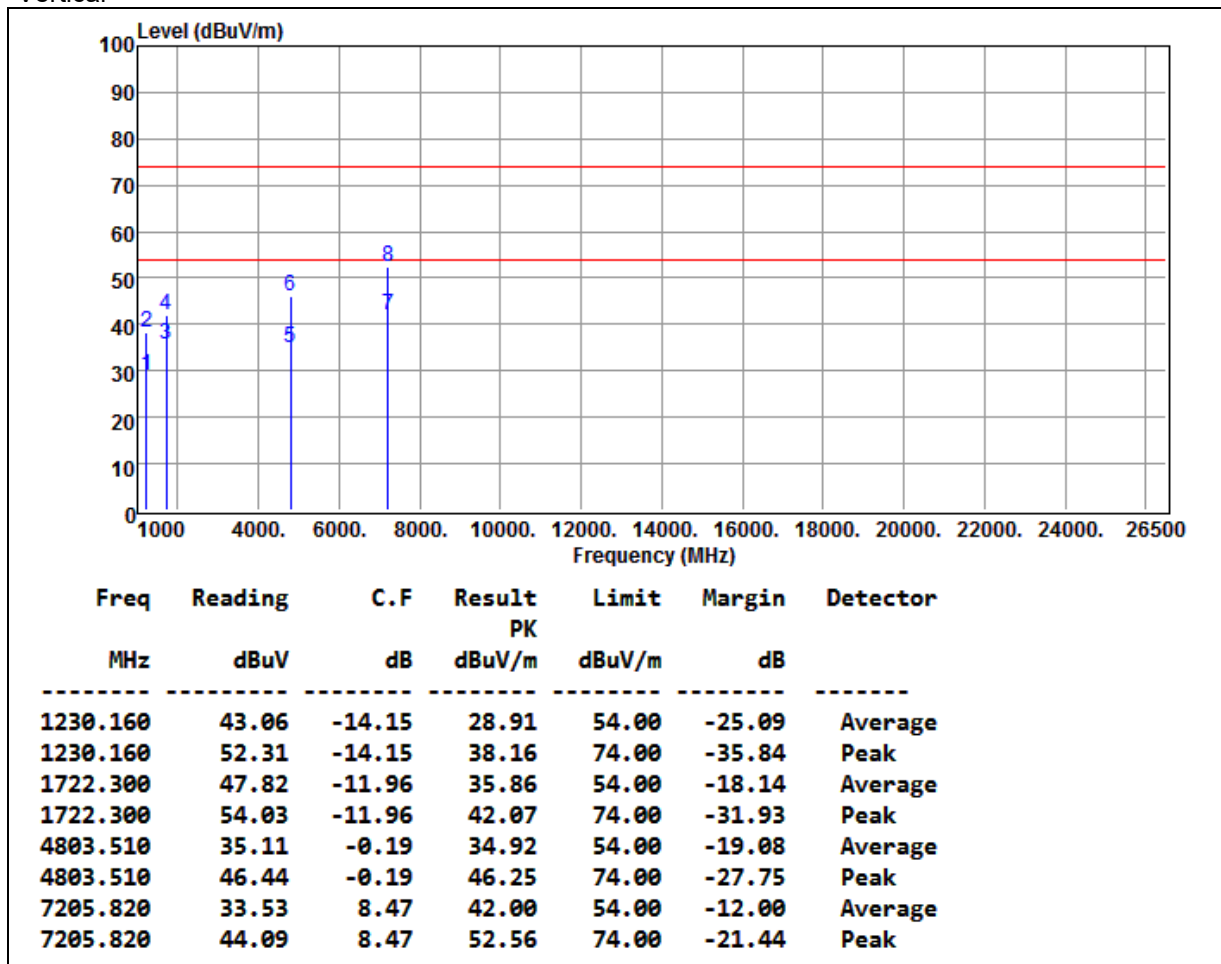


Remark:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (2.4~2.5(GHz))
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW \geq 1/T
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.
6. *=Restricted bands of operation

| | | | |
|--------------|---------------------------|----------------|------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | Bluetooth 4.0 TX (CH Low) | TEMP& Humidity | 24.2°C/43% |

Vertical

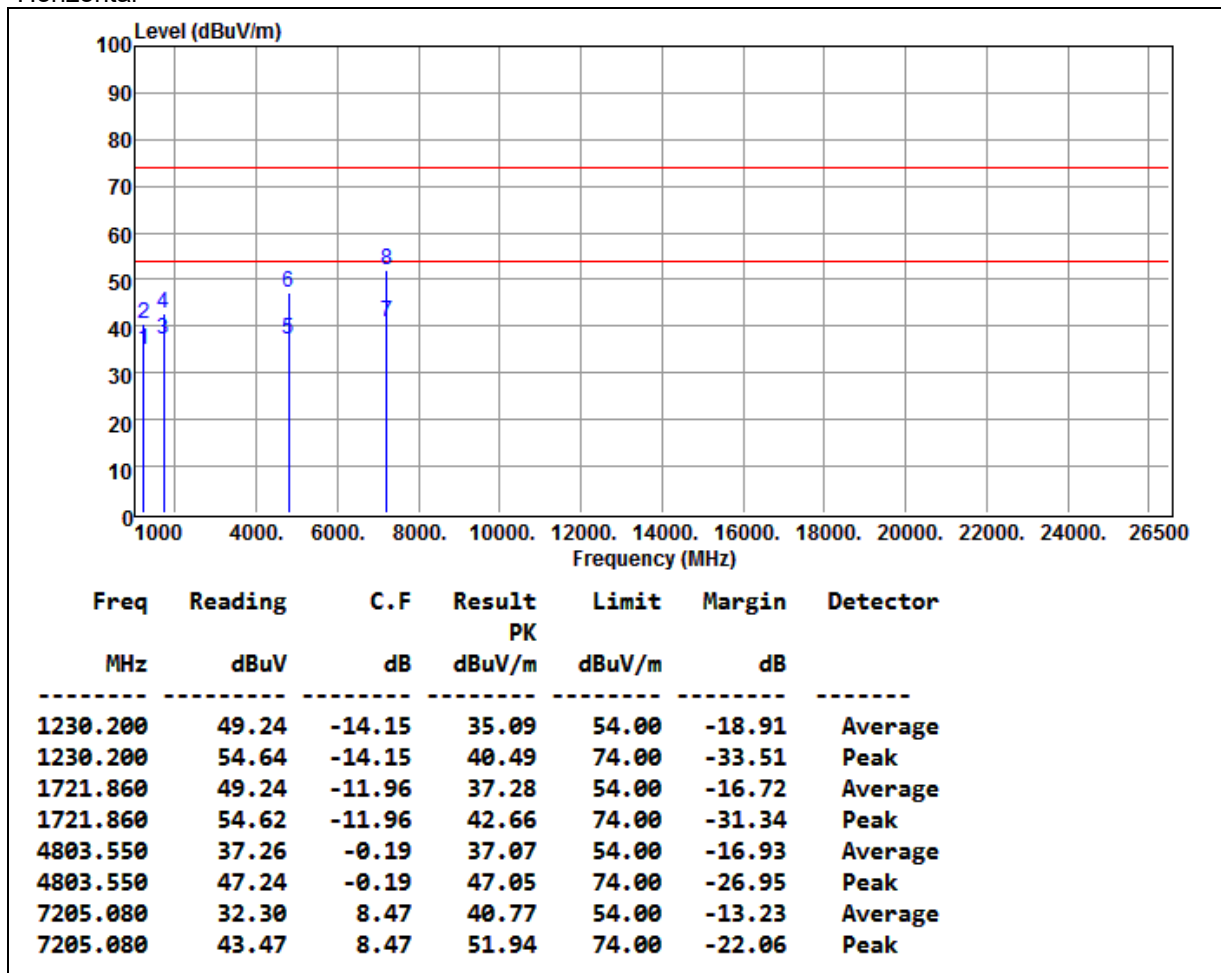


Remark:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (2.4~2.5(GHz))
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW ≥ 1/T
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.
6. *=Restricted bands of operation

| | | | |
|--------------|---------------------------|----------------|------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | Bluetooth 4.0 TX (CH Low) | TEMP& Humidity | 24.2°C/43% |

Horizontal

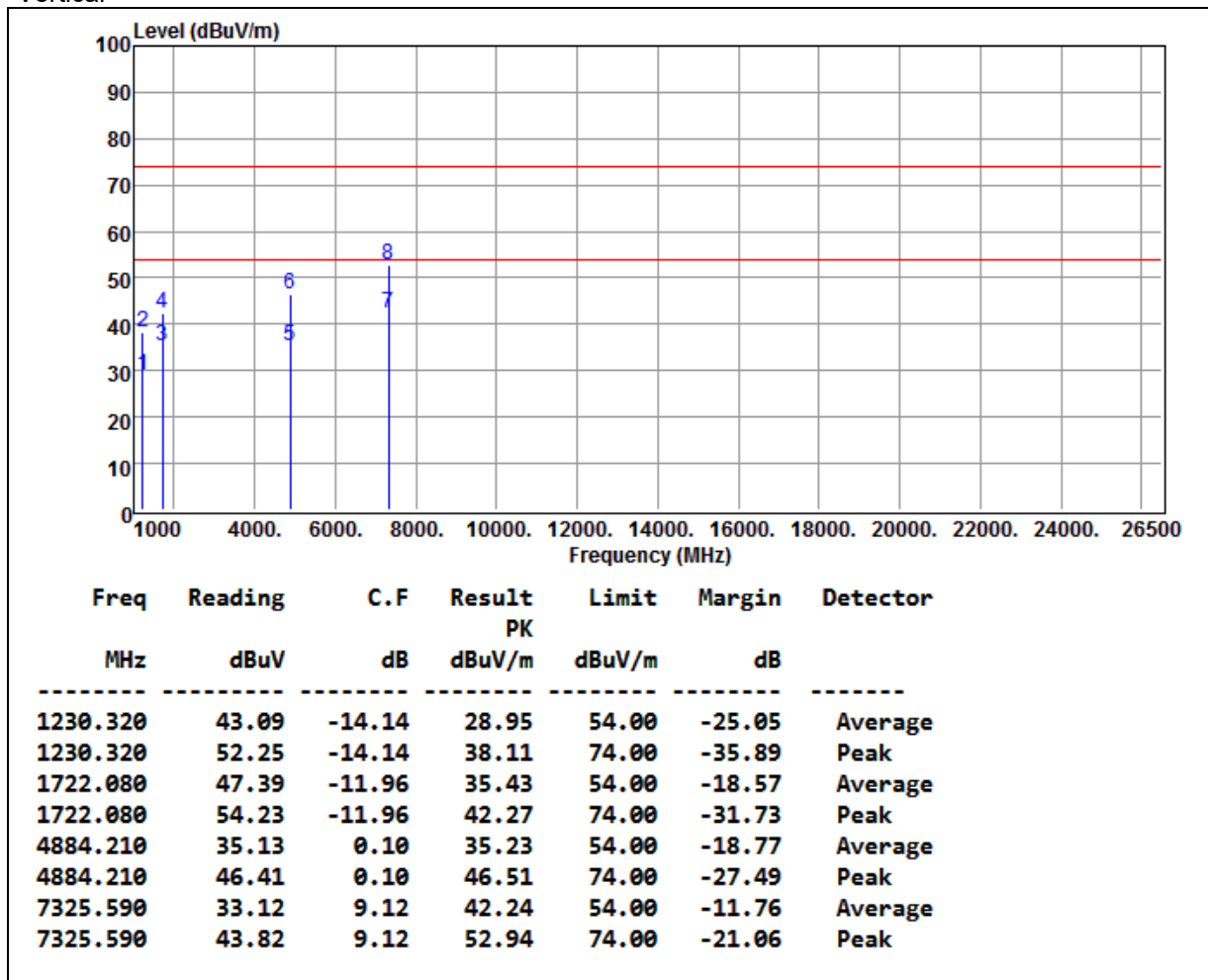


Remark:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (2.4~2.5(GHz))
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW \geq 1/T
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| | | | |
|--------------|------------------------------|----------------|------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | Bluetooth 4.0 TX (CH Middle) | TEMP& Humidity | 24.2°C/43% |

Vertical

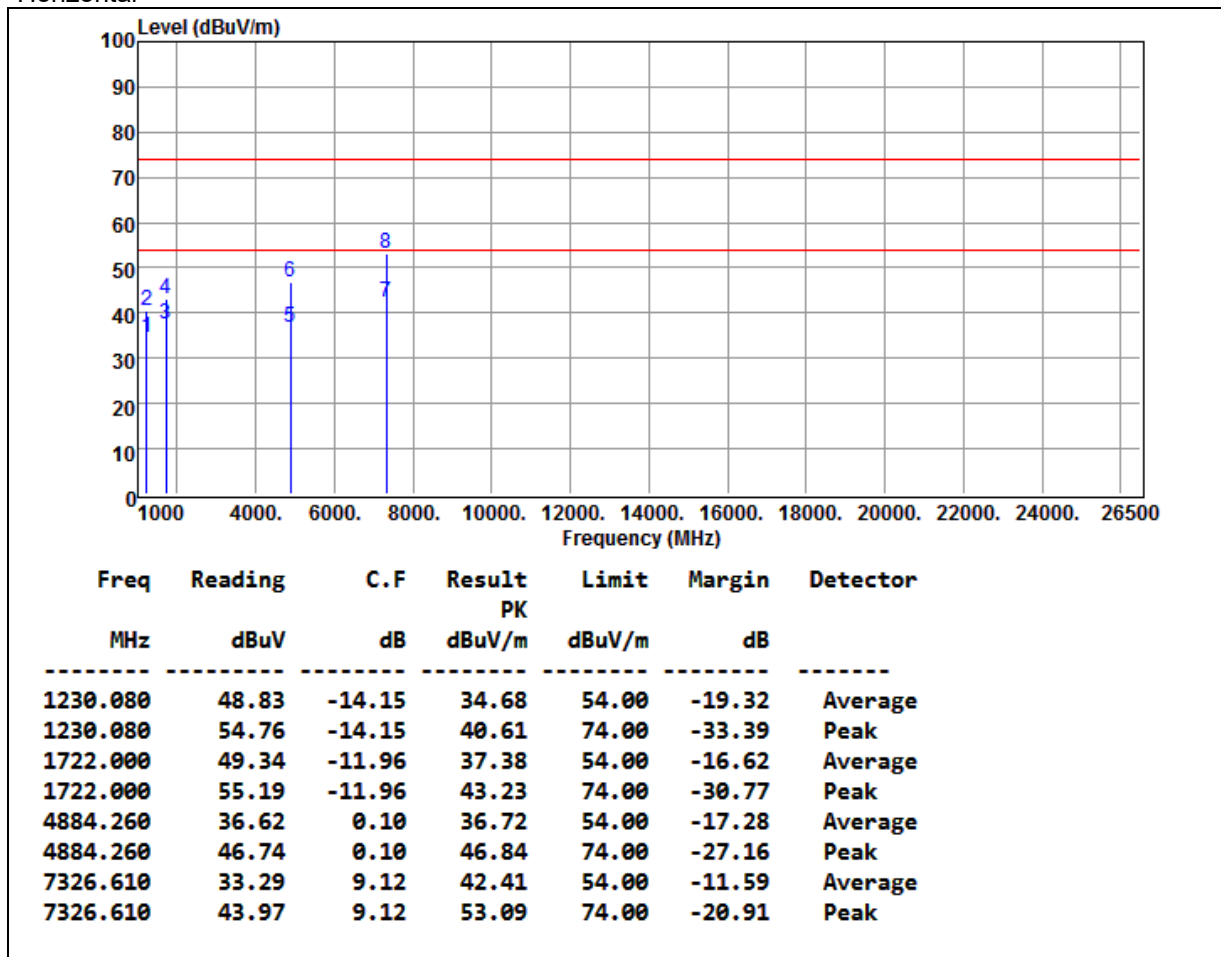


Remark:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (2.4~2.5(GHz))
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6. *=Restricted bands of operation

| | | | |
|--------------|------------------------------|----------------|------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | Bluetooth 4.0 TX (CH Middle) | TEMP& Humidity | 24.2°C/43% |

Horizontal

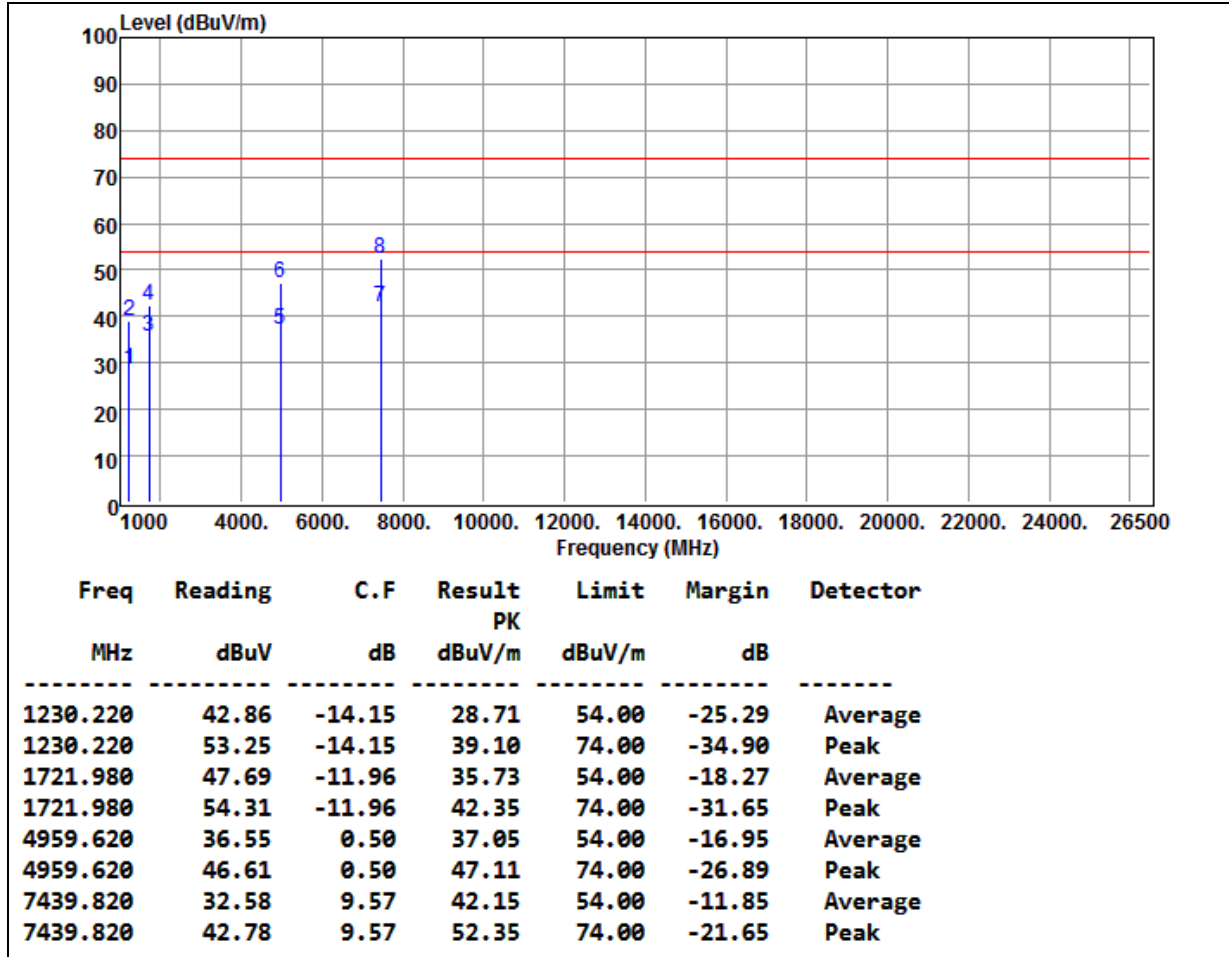


Remark:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (2.4~2.5(GHz))
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW \geq 1/T
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Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.
6. *=Restricted bands of operation

| | | | |
|--------------|----------------------------|----------------|------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | Bluetooth 4.0 TX (CH High) | TEMP& Humidity | 24.2°C/43% |

Vertical

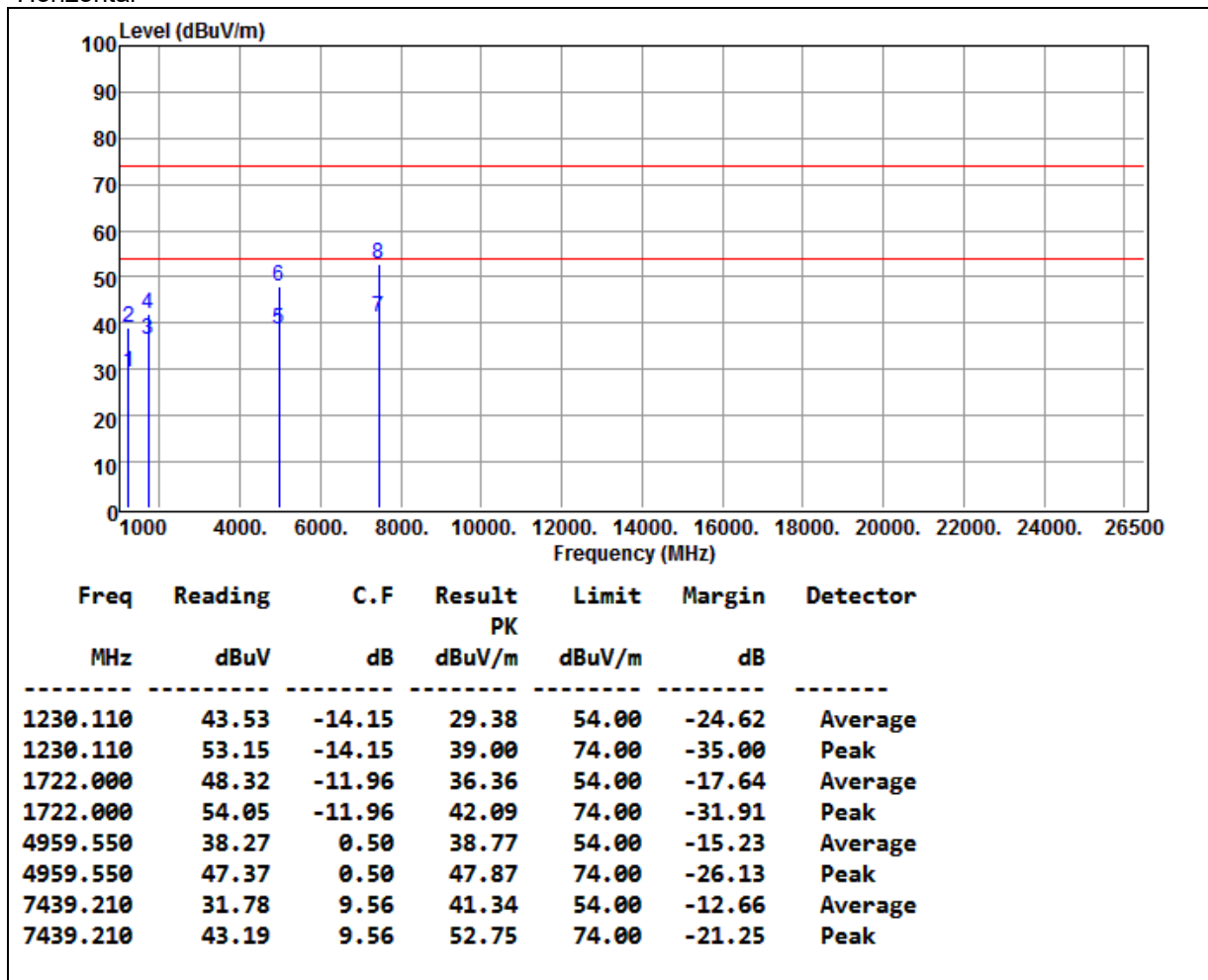


Remark:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (2.4~2.5(GHz))
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW ≥ 1/T
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.
6. *=Restricted bands of operation

| | | | |
|--------------|----------------------------|----------------|------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | Bluetooth 4.0 TX (CH High) | TEMP& Humidity | 24.2°C/43% |

Horizontal

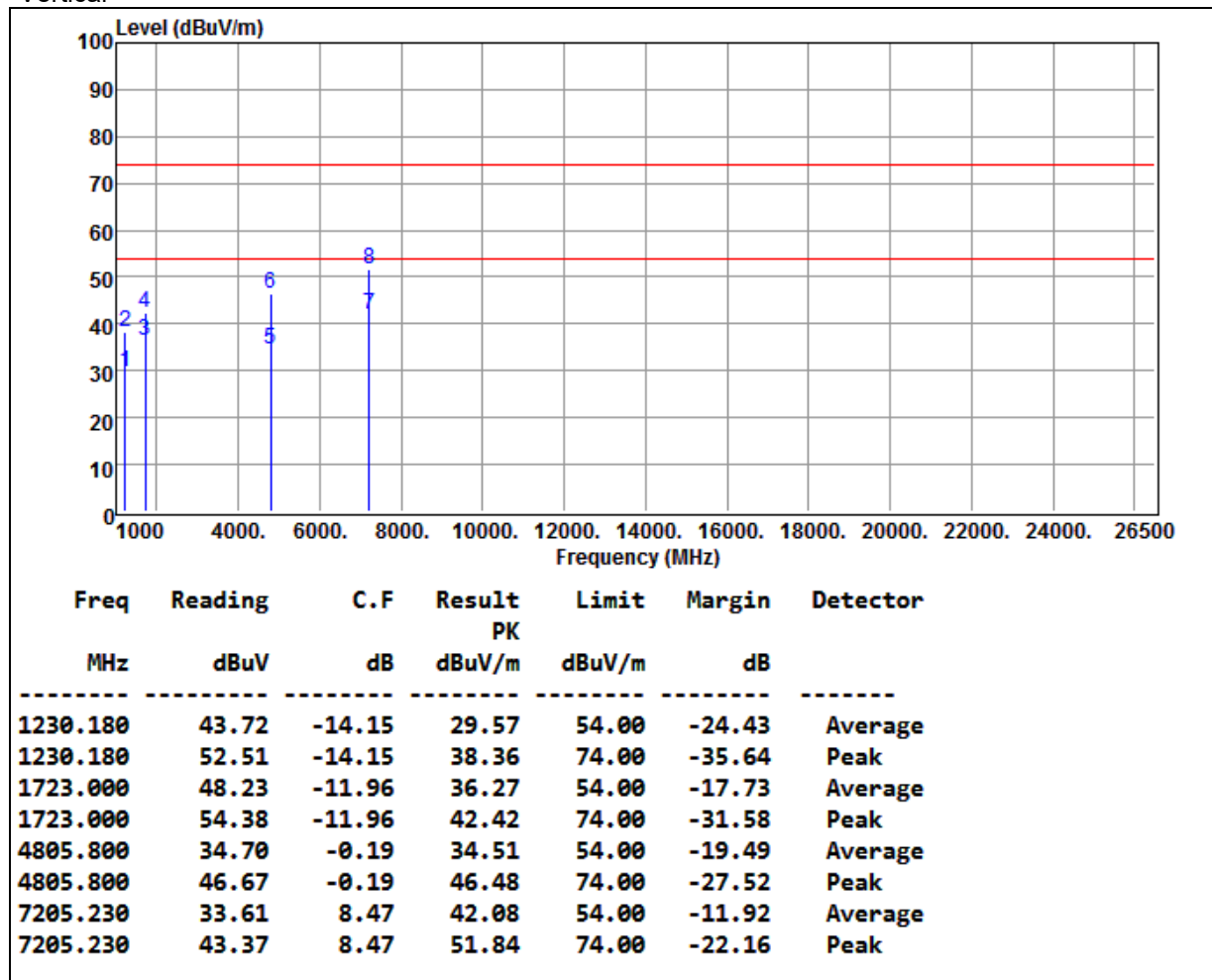


Remark:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (2.4~2.5(GHz))
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW $\geq 1/T$
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.
6. *=Restricted bands of operation

| | | | |
|--------------|---------------------------|----------------|------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | Bluetooth 5.0 TX (CH Low) | TEMP& Humidity | 24.2°C/43% |

Vertical

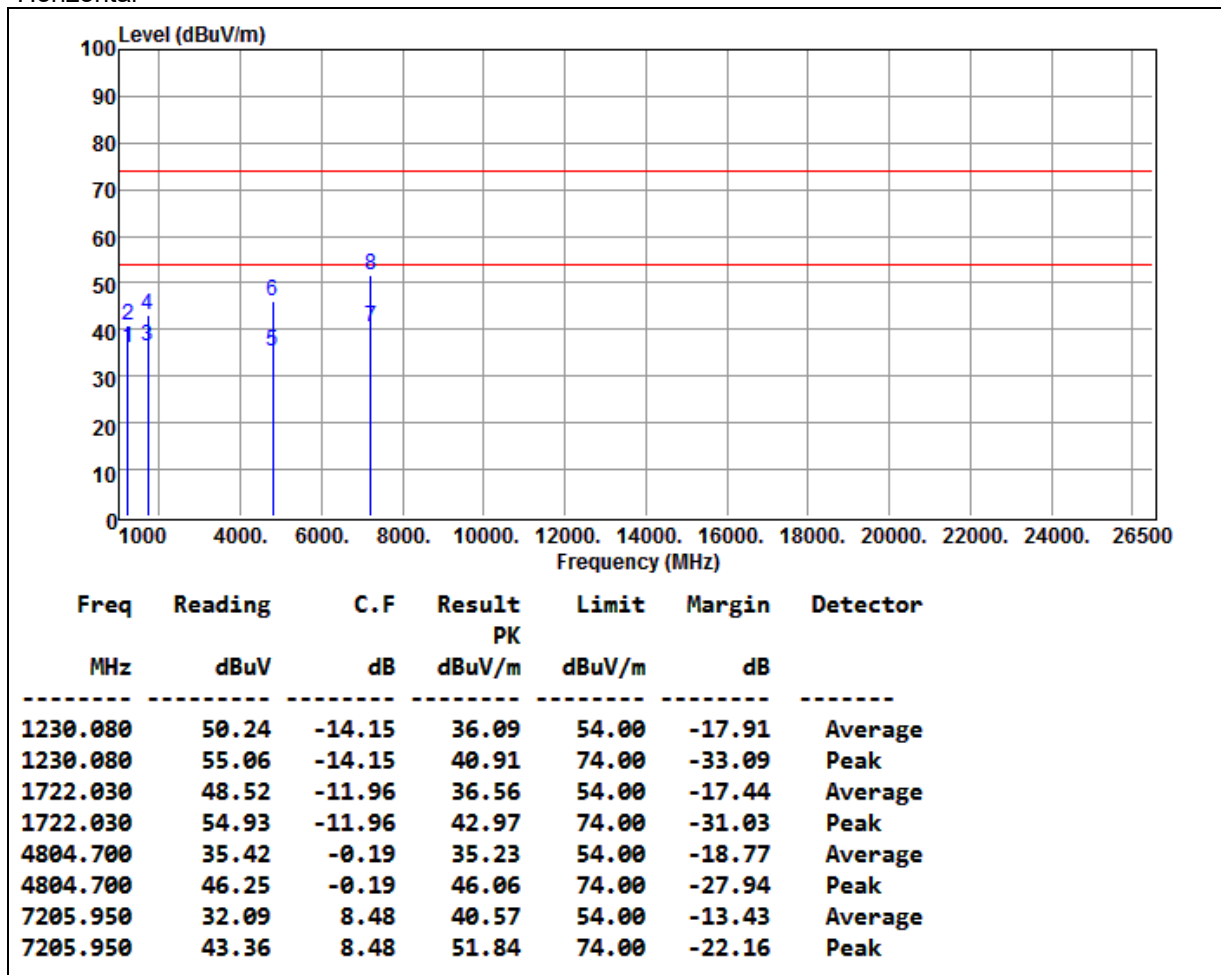


Remark:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (2.4~2.5(GHz))
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW $\geq 1/T$
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.
6. *=Restricted bands of operation

| | | | |
|--------------|---------------------------|----------------|------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | Bluetooth 5.0 TX (CH Low) | TEMP& Humidity | 24.2°C/43% |

Horizontal

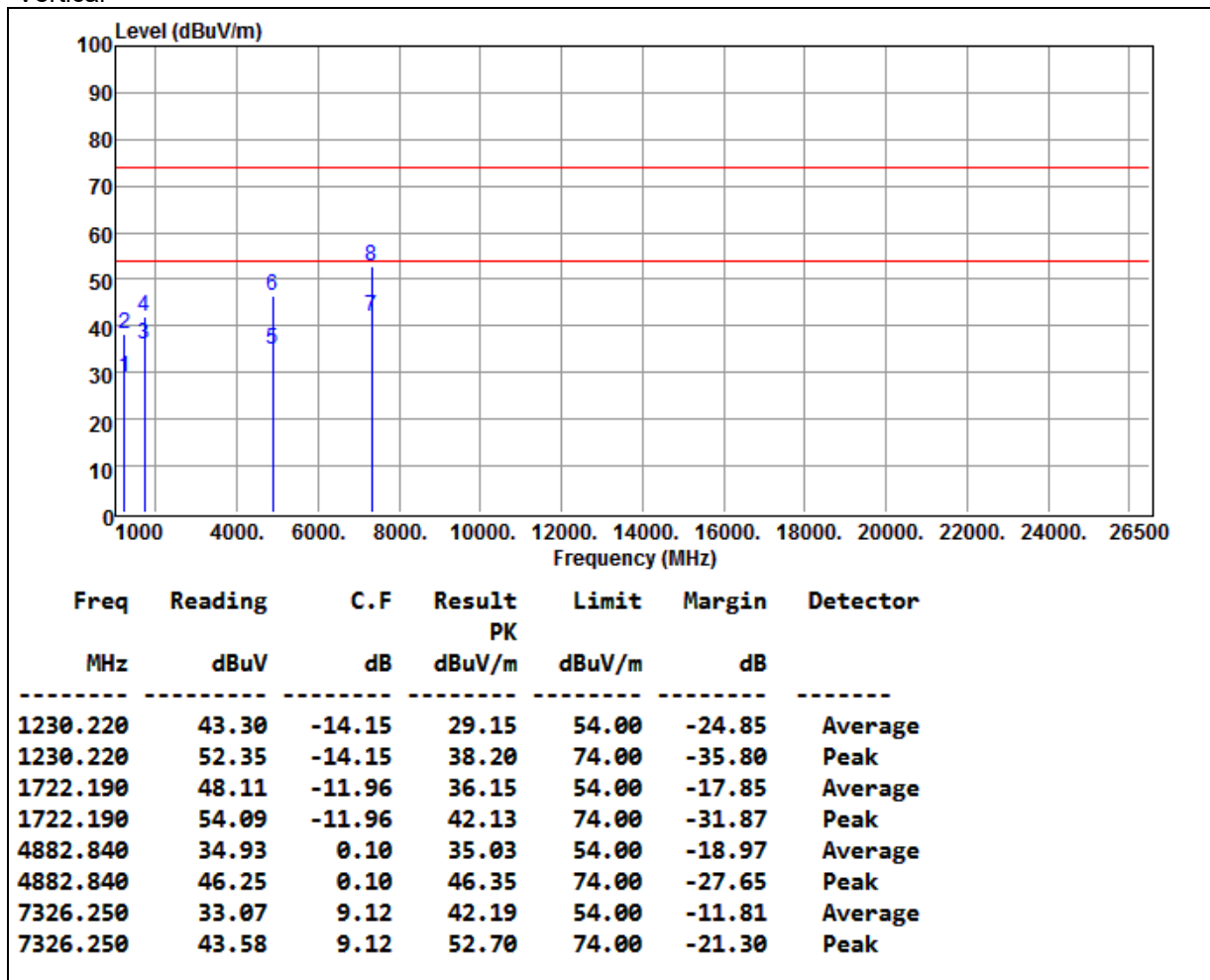


Remark:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (2.4~2.5(GHz))
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW $\geq 1/T$
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5. The test distance is 3m.
6. *=Restricted bands of operation

| | | | |
|--------------|------------------------------|----------------|------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | Bluetooth 5.0 TX (CH Middle) | TEMP& Humidity | 24.2°C/43% |

Vertical

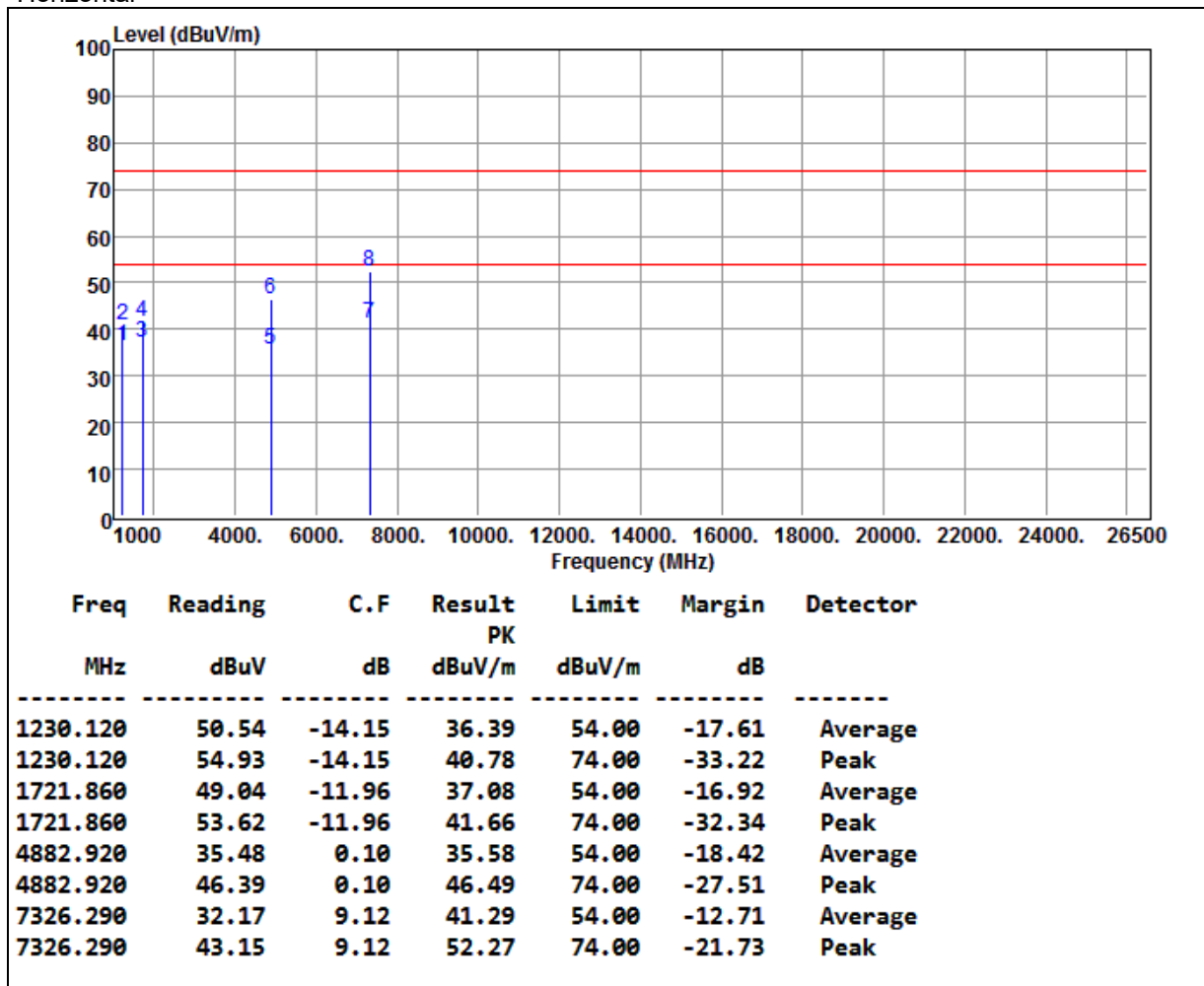


Remark:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (2.4~2.5(GHz))
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW ≥ 1/T
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Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
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5. The test distance is 3m.
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| | | | |
|--------------|------------------------------|----------------|------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | Bluetooth 5.0 TX (CH Middle) | TEMP& Humidity | 24.2°C/43% |

Horizontal

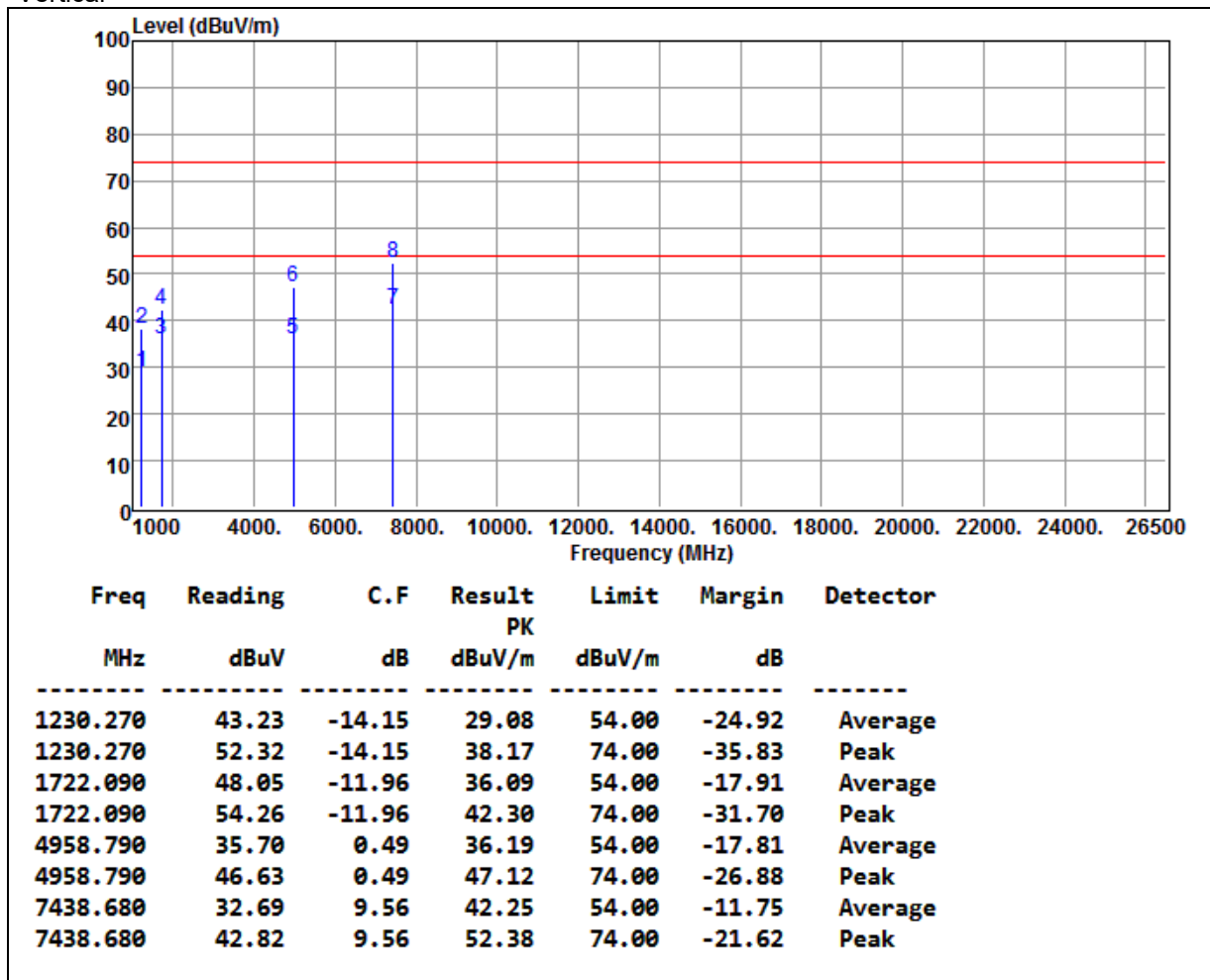


Remark:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (2.4~2.5(GHz))
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW \geq 1/T
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.
6. *=Restricted bands of operation

| | | | |
|--------------|----------------------------|----------------|------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | Bluetooth 5.0 TX (CH High) | TEMP& Humidity | 24.2°C/43% |

Vertical

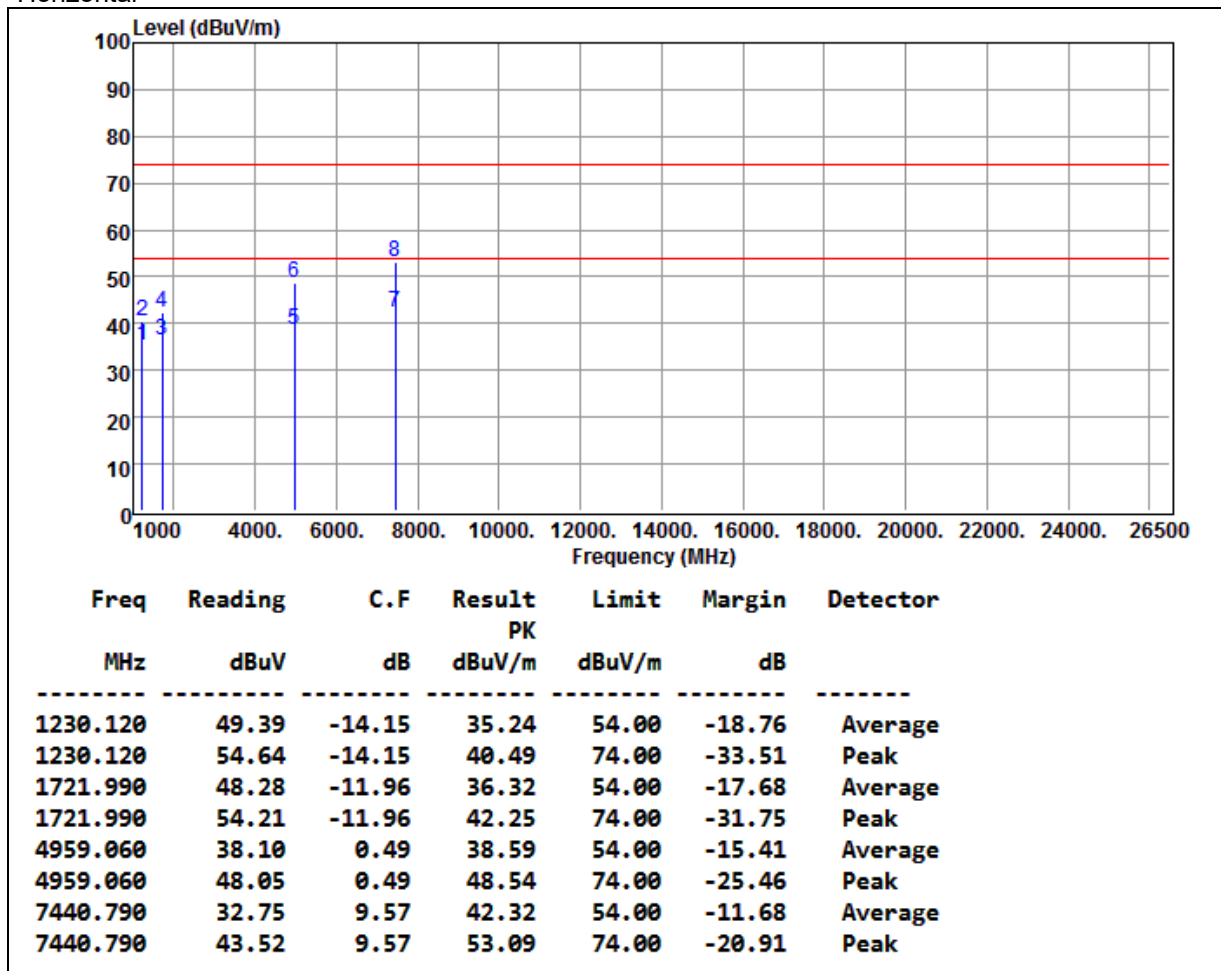


Remark:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (2.4~2.5(GHz))
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW $\geq 1/T$
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
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5. The test distance is 3m.
6. *=Restricted bands of operation

| | | | |
|--------------|----------------------------|----------------|------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | Bluetooth 5.0 TX (CH High) | TEMP& Humidity | 24.2°C/43% |

Horizontal



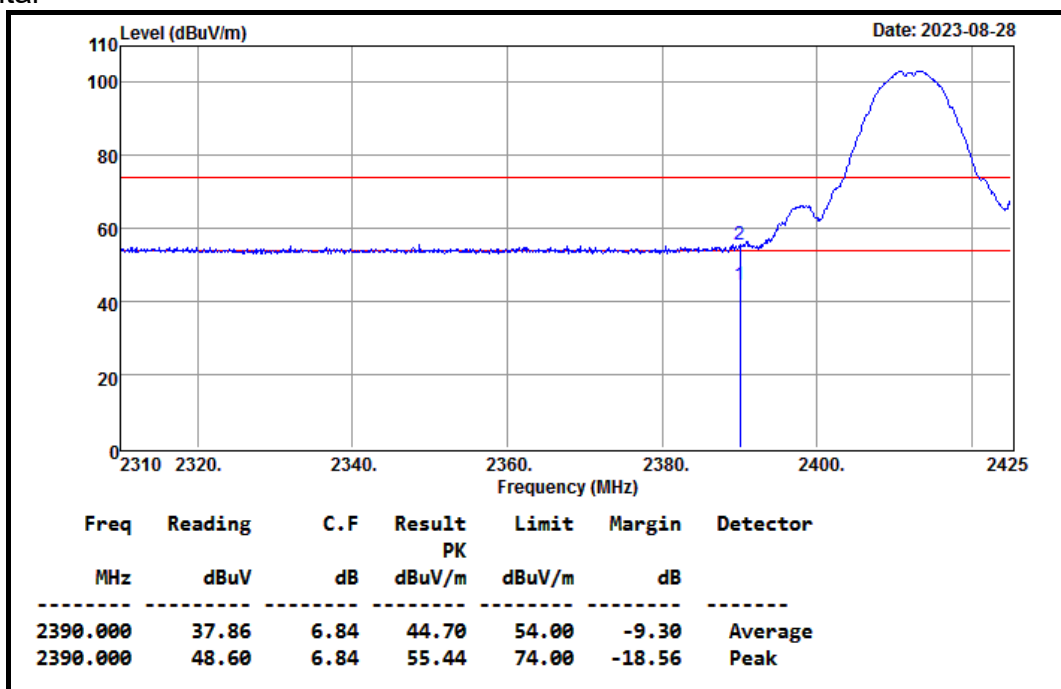
Remark:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (2.4~2.5(GHz))
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW \geq 1/T
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.
6. *=Restricted bands of operation

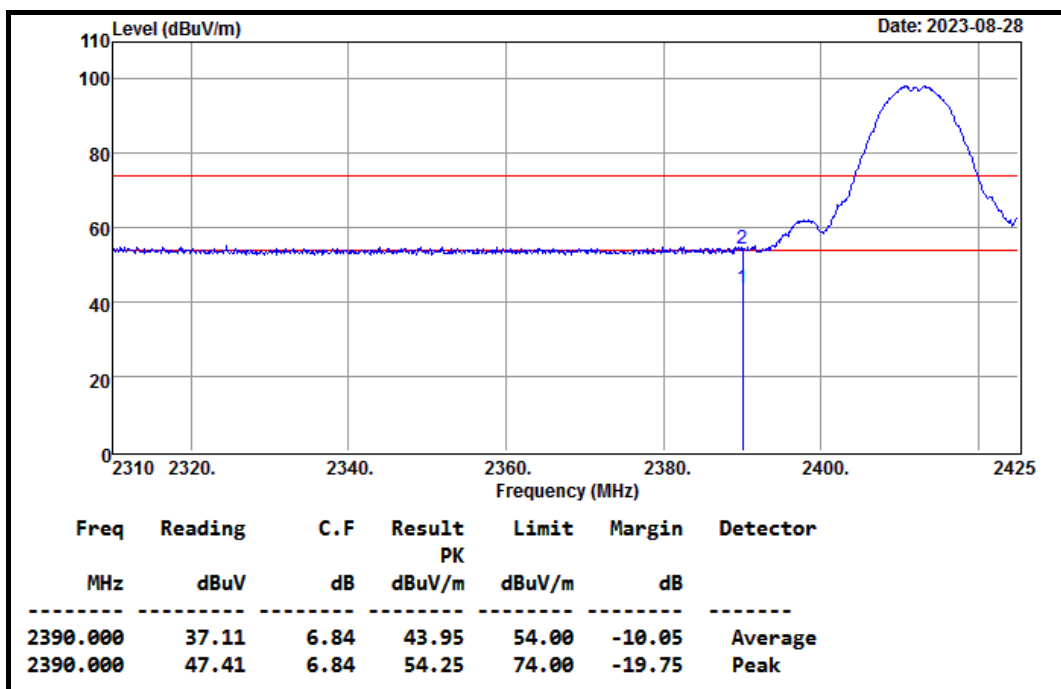
8.6.4 RESTRICTED BAND EDGES

| | | | |
|--------------|--------------------------|----------------|-------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | IEEE 802.11b TX (CH Low) | TEMP& Humidity | 24.6°C, 41% |

Horizontal

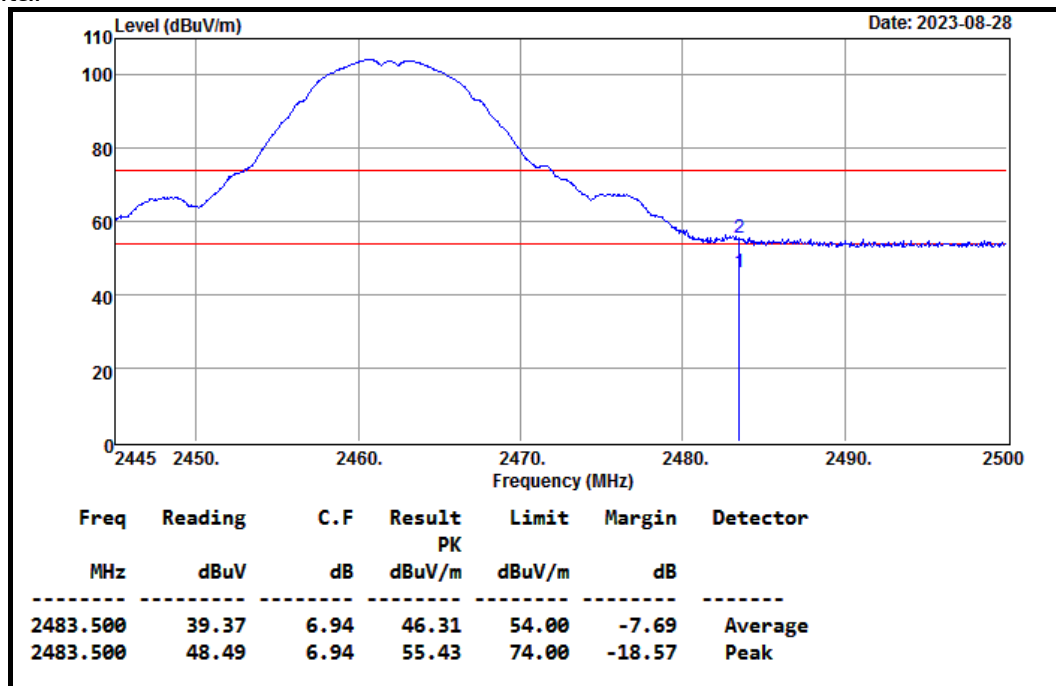


Vertical

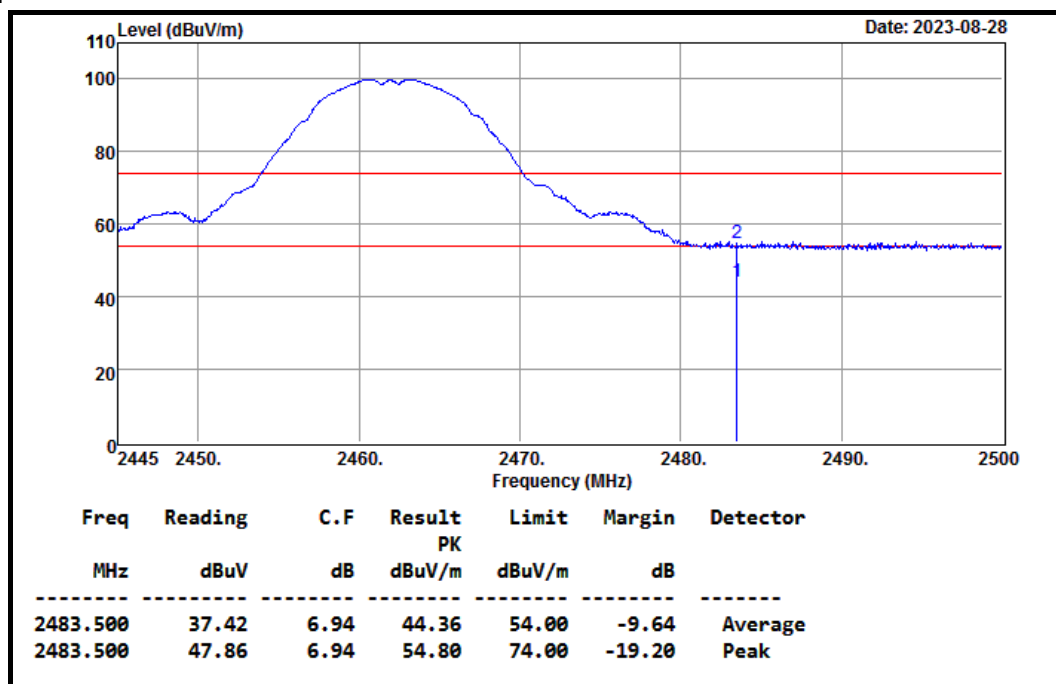


| | | | |
|--------------|---------------------------|----------------|-------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | IEEE 802.11b TX (CH High) | TEMP& Humidity | 24.6°C, 41% |

Horizontal

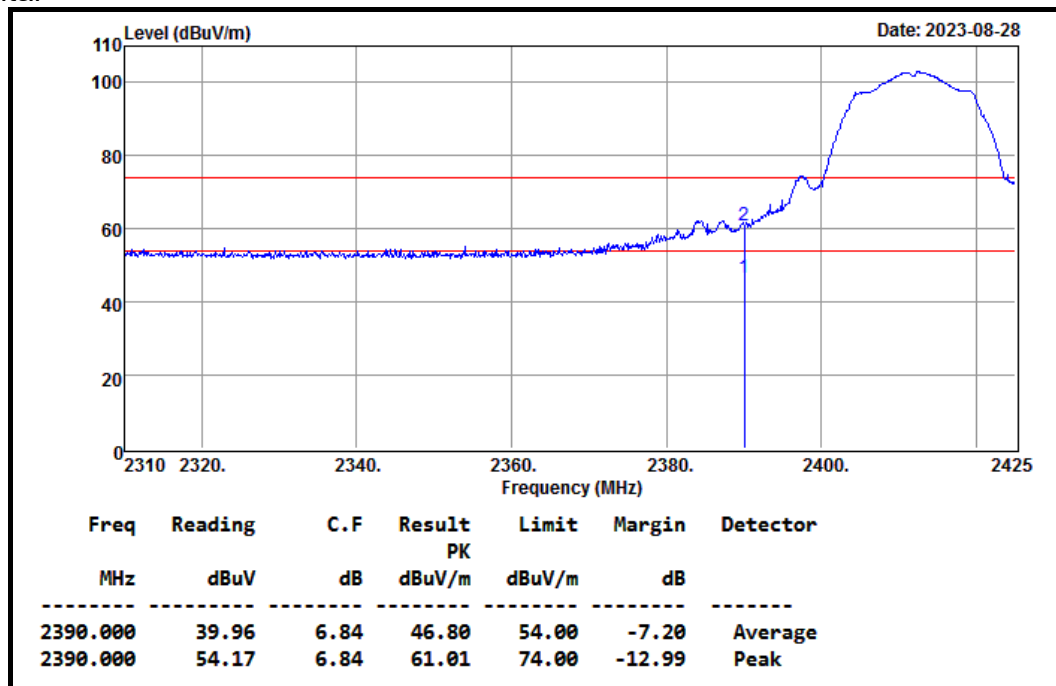


Vertical

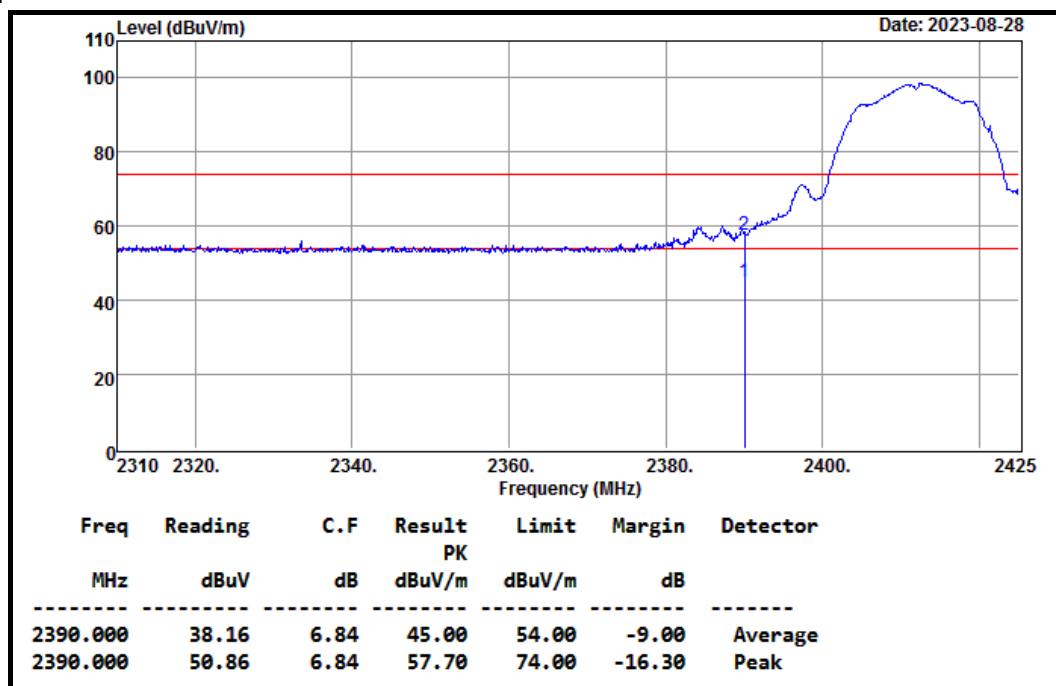


| | | | |
|--------------|--------------------------|----------------|-------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | IEEE 802.11g TX (CH Low) | TEMP& Humidity | 24.6°C, 41% |

Horizontal

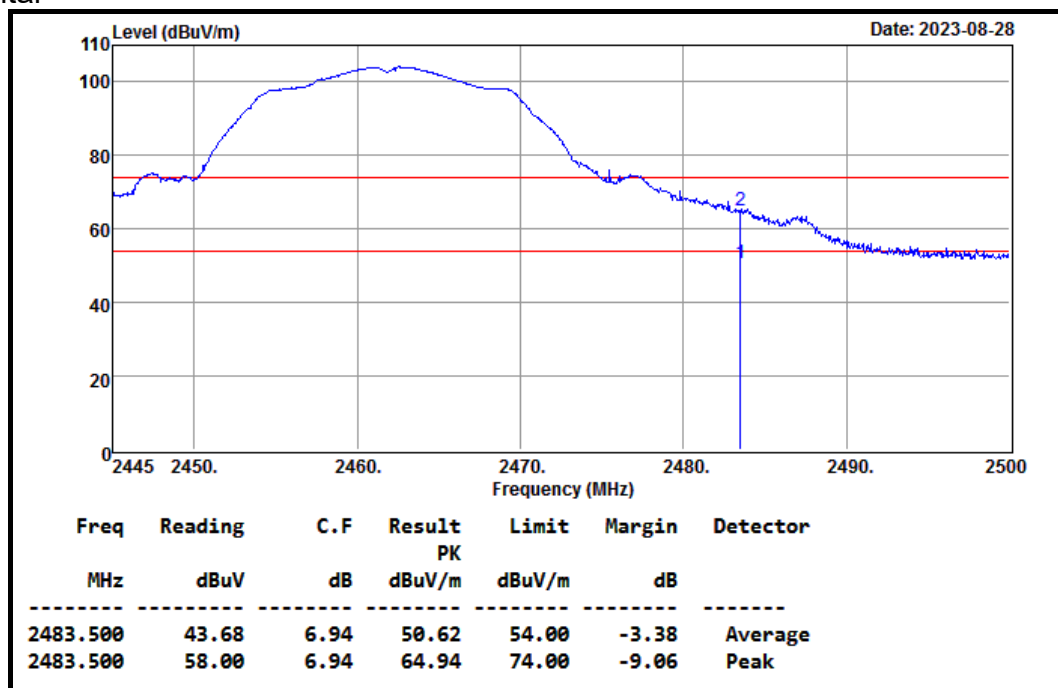


Vertical

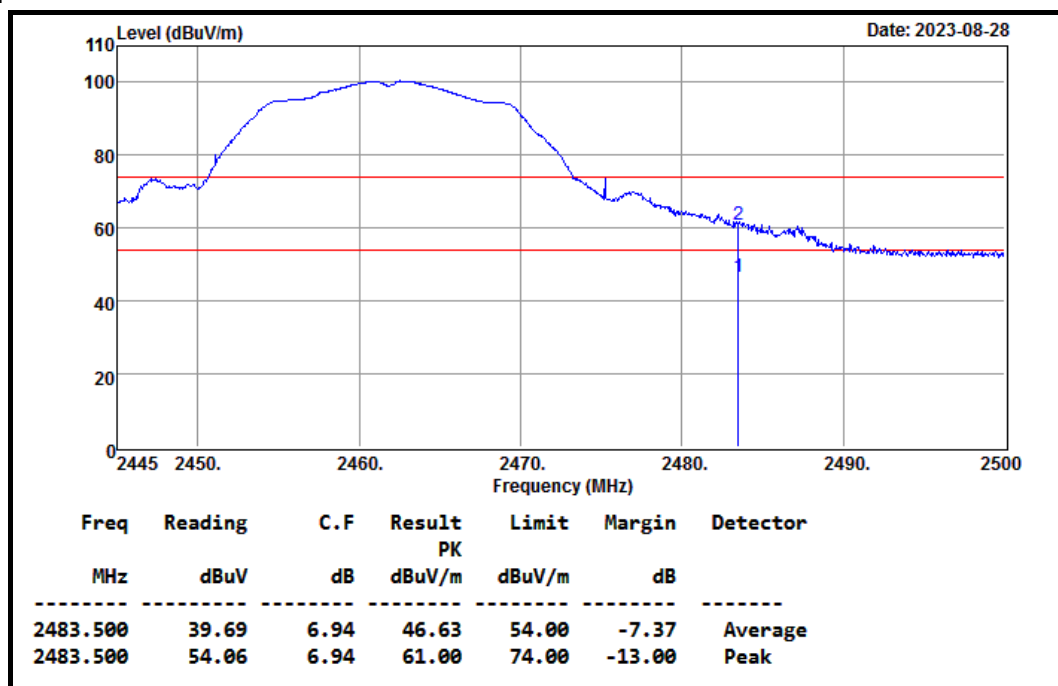


| | | | |
|--------------|---------------------------|----------------|-------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | IEEE 802.11g TX (CH High) | TEMP& Humidity | 24.6°C, 41% |

Horizontal

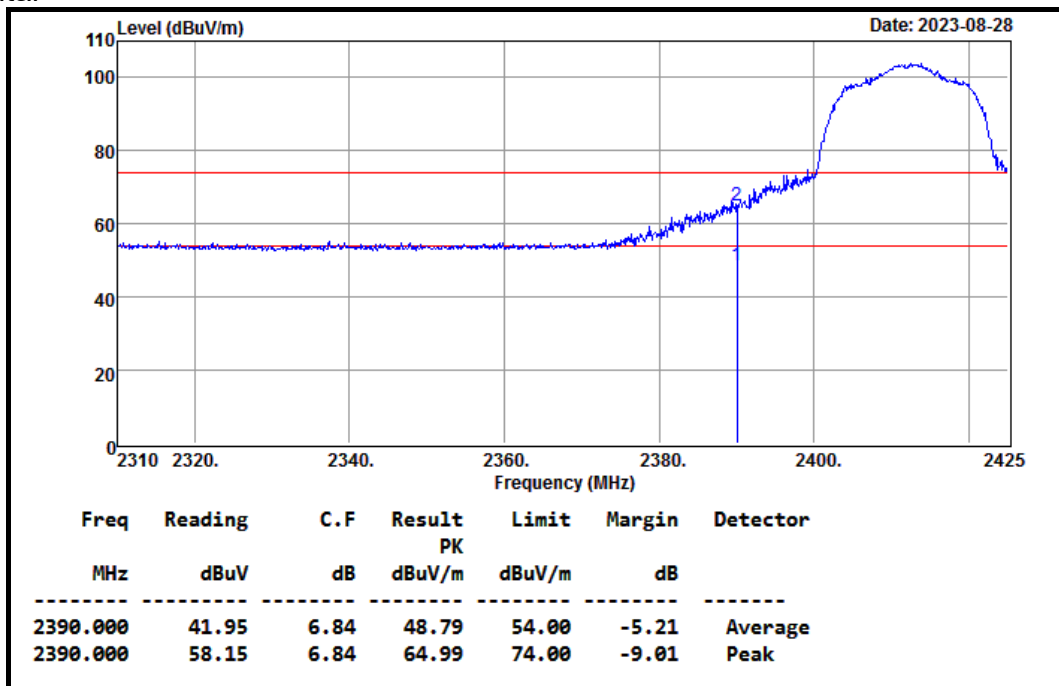


Vertical

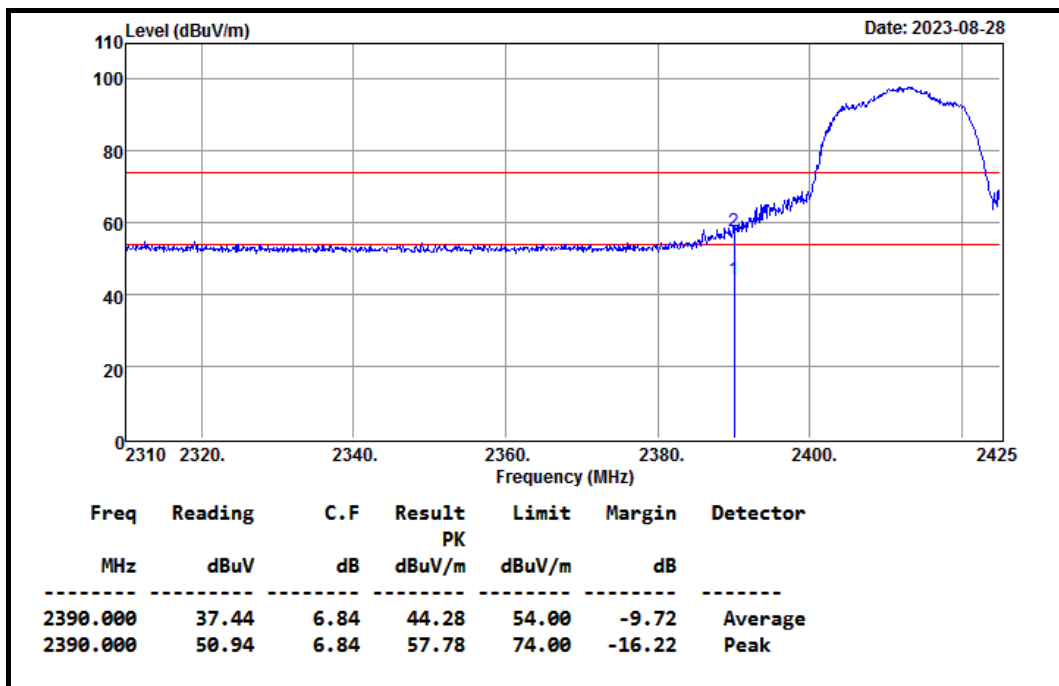


| | | | |
|--------------|-------------------------------|----------------|-------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | IEEE 802.11n HT20 TX (CH Low) | TEMP& Humidity | 24.6°C, 41% |

Horizontal

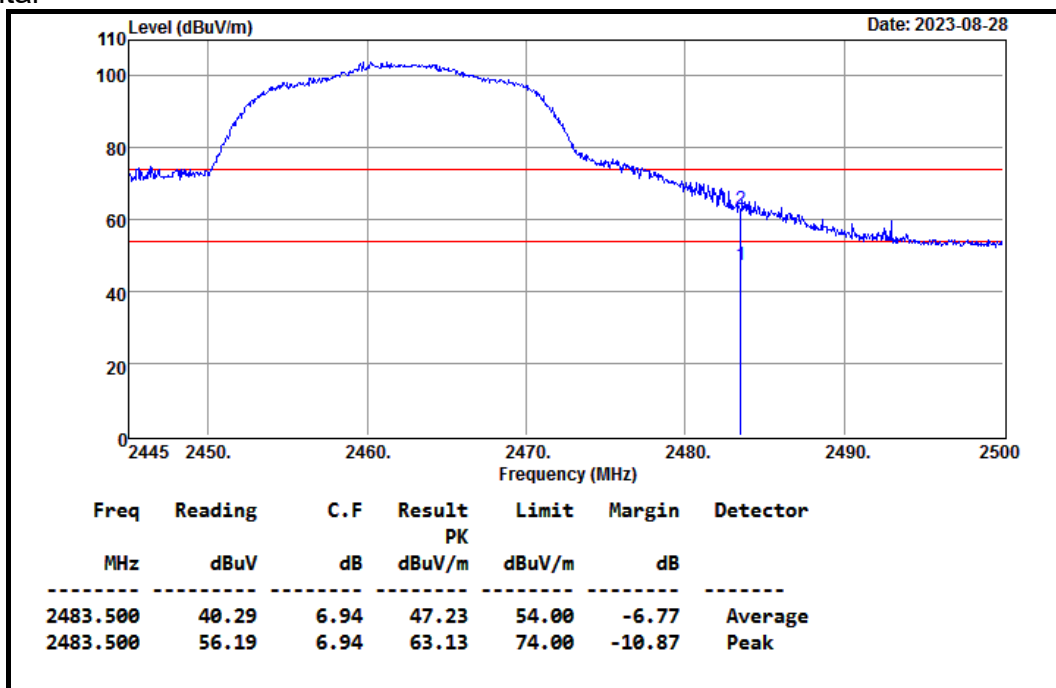


Vertical

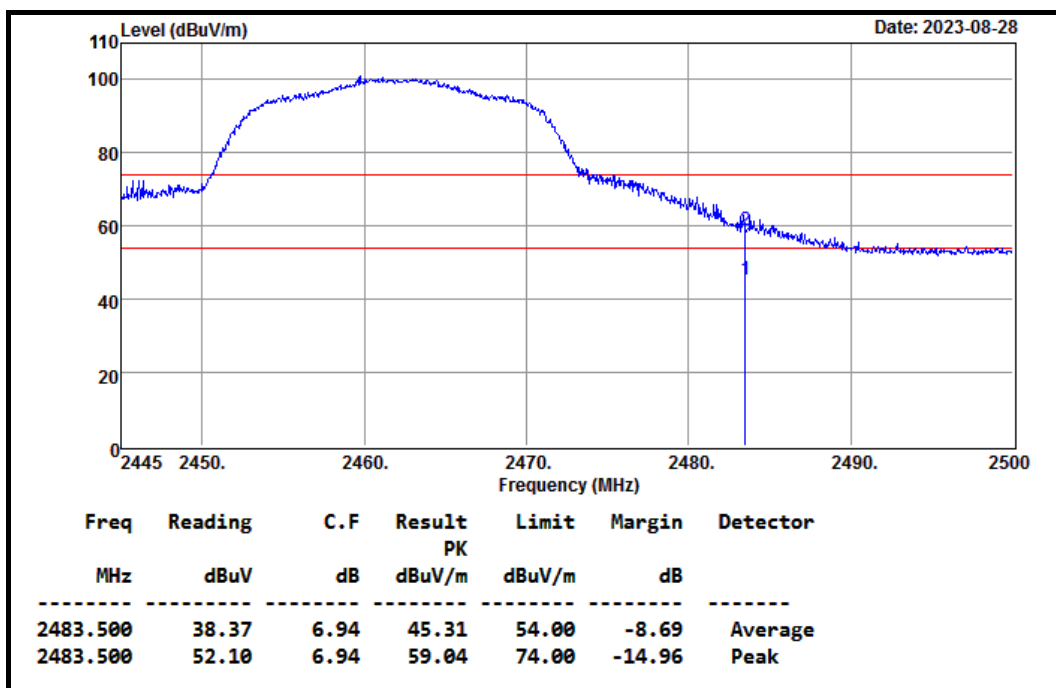


| | | | |
|--------------|--------------------------------|----------------|-------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | IEEE 802.11n HT20 TX (CH High) | TEMP& Humidity | 24.6°C, 41% |

Horizontal

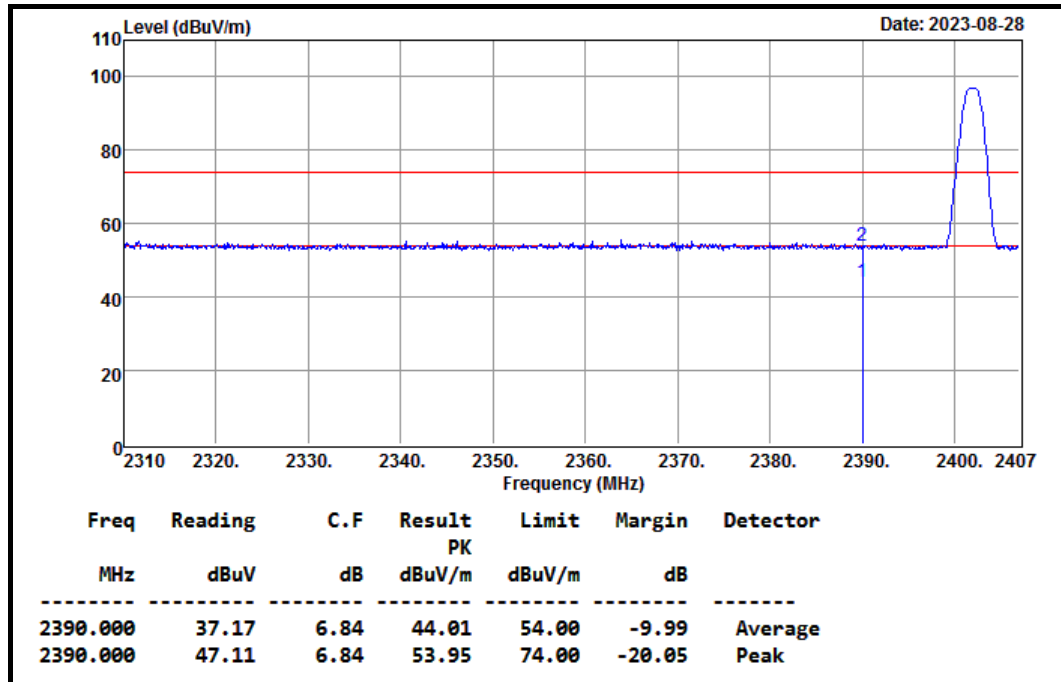


Vertical

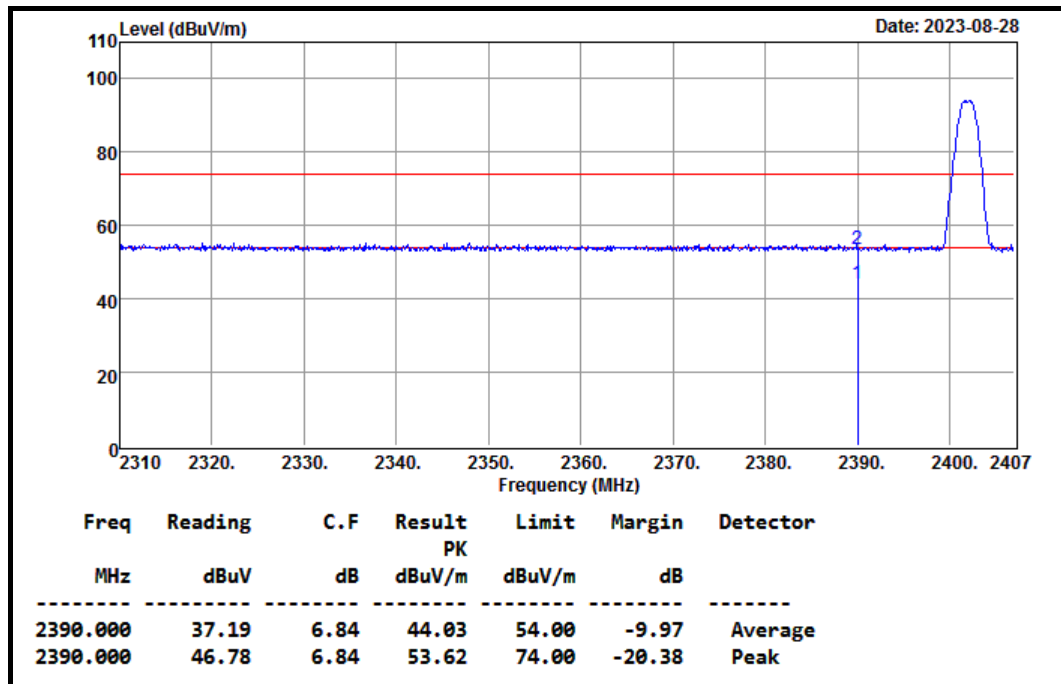


| | | | |
|--------------|---------------------------|----------------|-------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | Bluetooth 4.0 TX (CH Low) | TEMP& Humidity | 24.6°C, 41% |

Horizontal

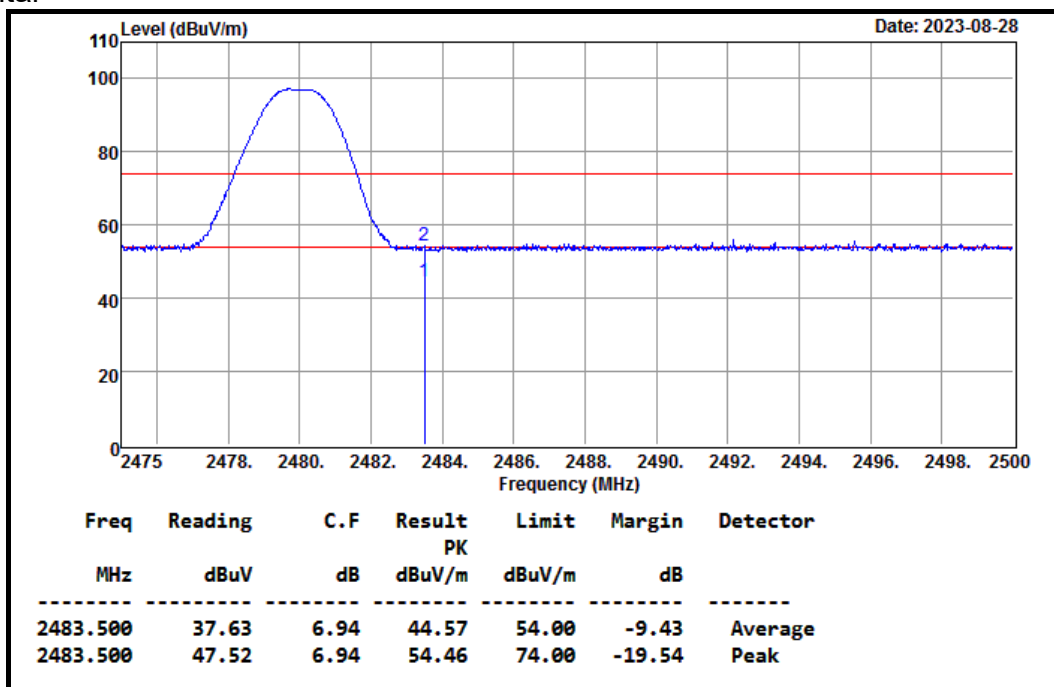


Vertical

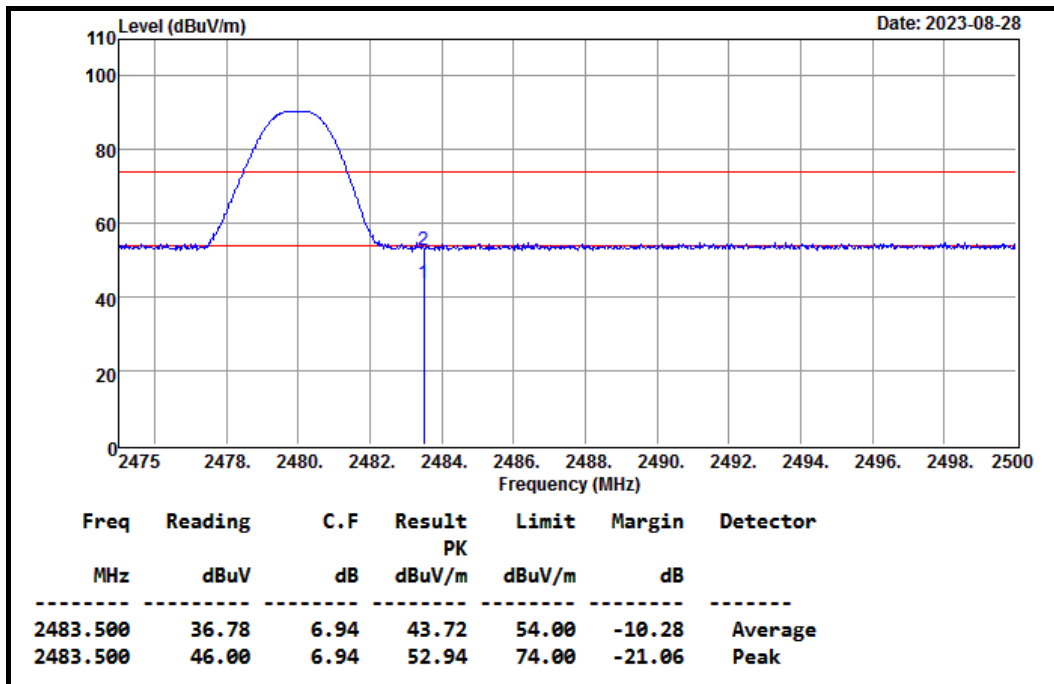


| | | | |
|--------------|----------------------------|----------------|-------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | Bluetooth 4.0 TX (CH High) | TEMP& Humidity | 24.6°C, 41% |

Horizontal

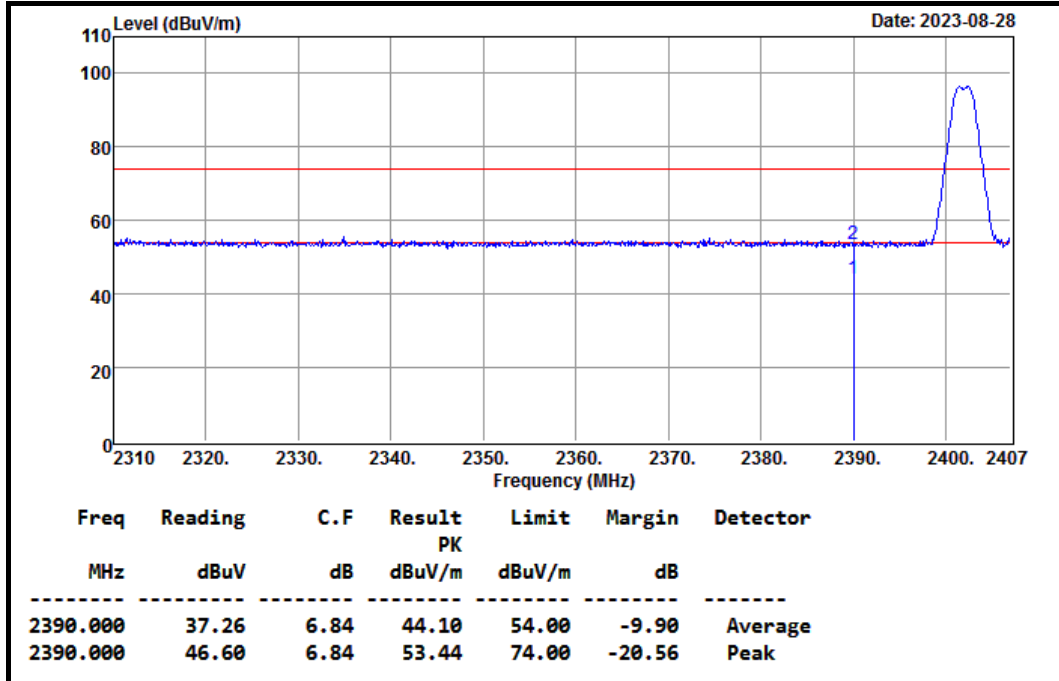


Vertical

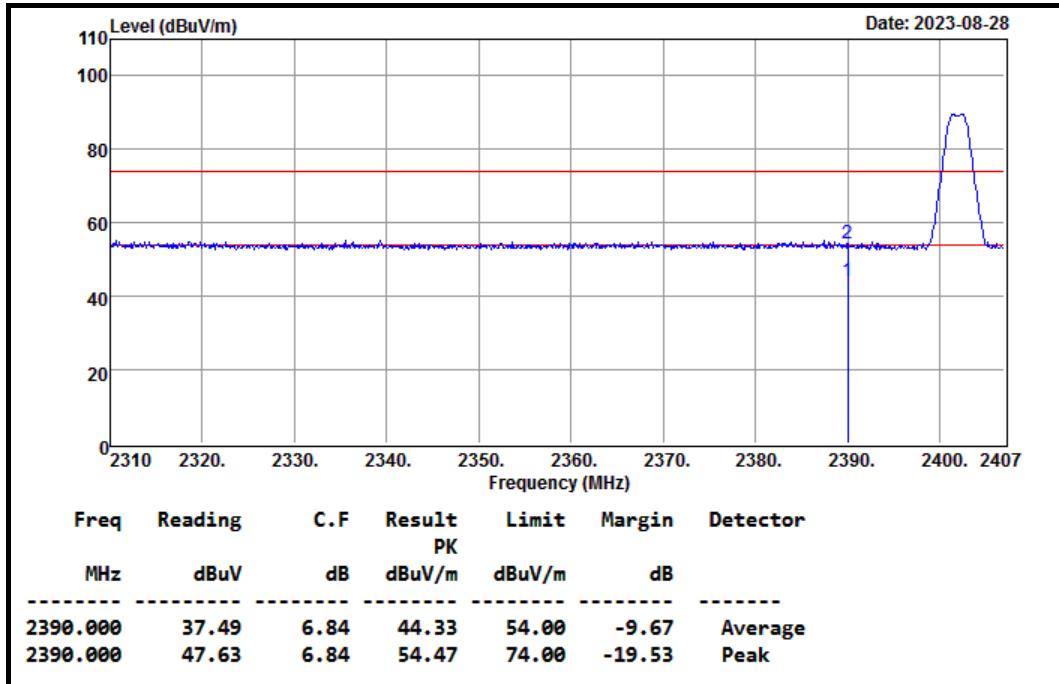


| | | | |
|--------------|---------------------------|----------------|-------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | Bluetooth 5.0 TX (CH Low) | TEMP& Humidity | 24.6°C, 41% |

Horizontal

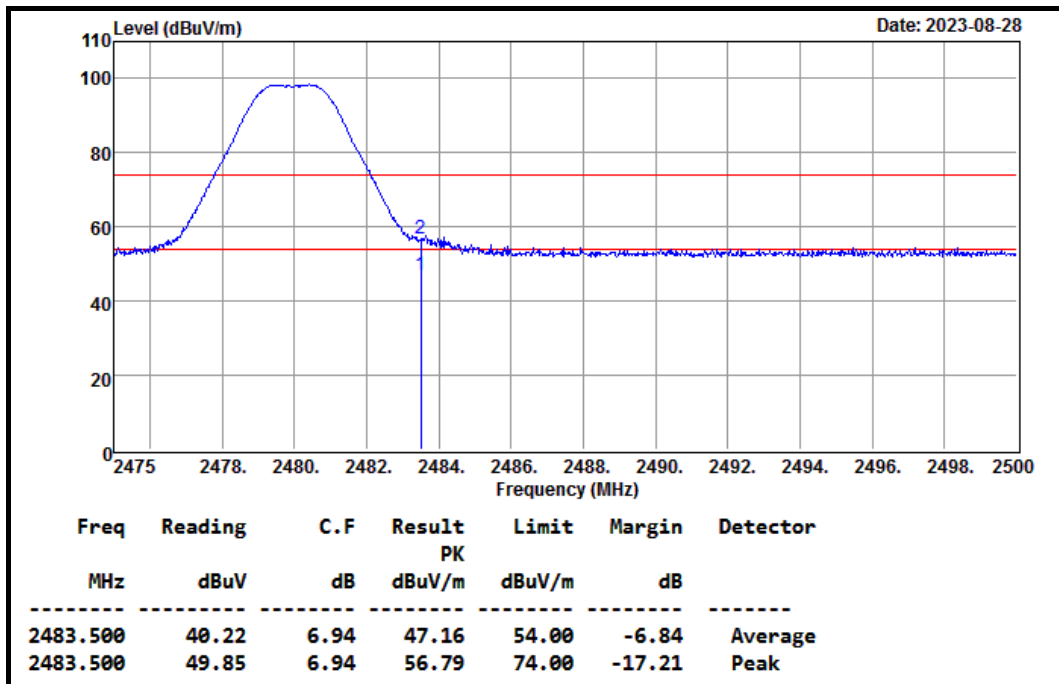


Vertical

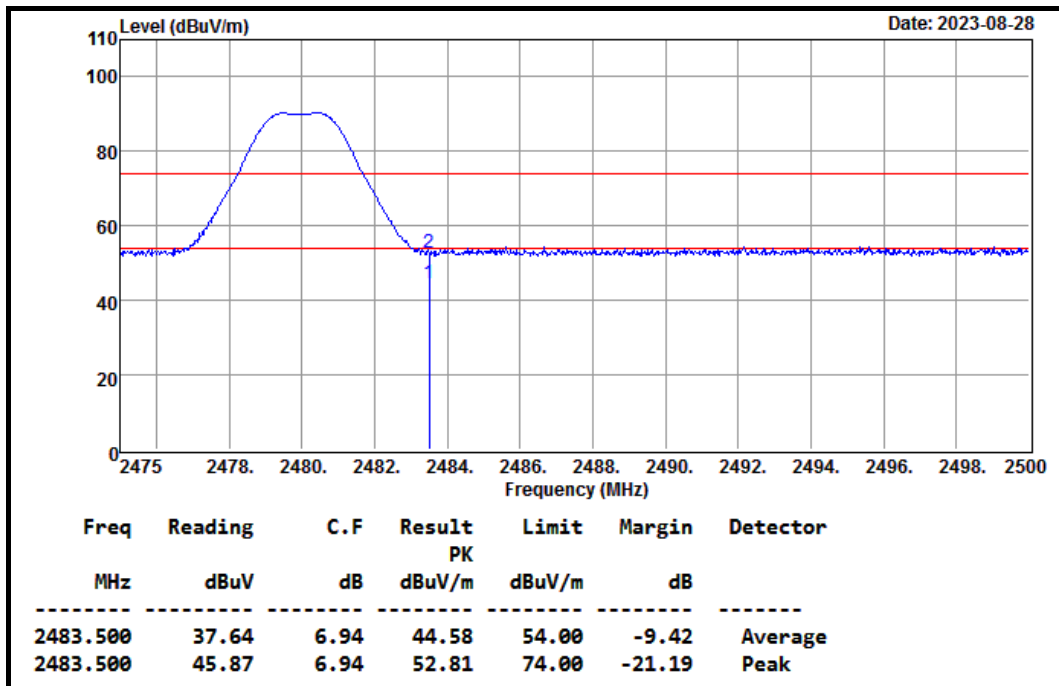


| | | | |
|--------------|----------------------------|----------------|-------------|
| Product Name | Audio Device | Test Date | 2023/08/28 |
| Model | ACVR | Test By | Peter Chu |
| Test Mode | Bluetooth 5.0 TX (CH High) | TEMP& Humidity | 24.6°C, 41% |

Horizontal



Vertical



8.7 POWERLINE CONDUCTED EMISSIONS

LIMITS

§ 15.207 (a) Except as shown in paragraph (b) and (c) this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal.

The lower limit applies at the boundary between the frequency ranges.

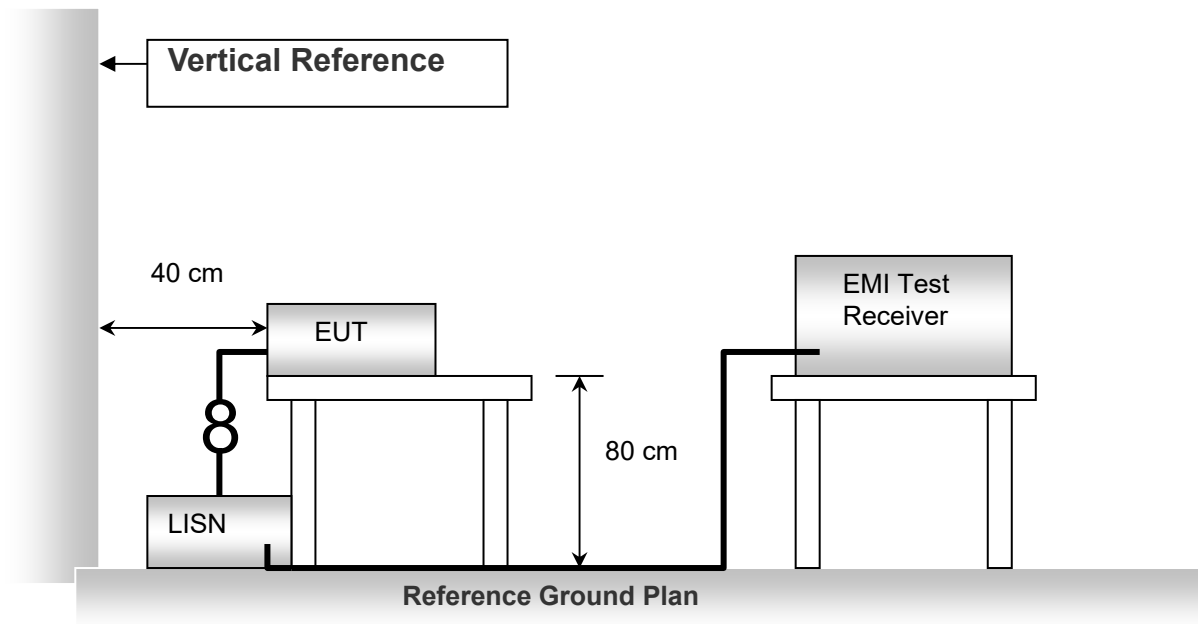
| Frequency of Emission (MHz) | Conducted limit (dB μ v) | |
|-----------------------------|------------------------------|----------|
| | Quasi-peak | Average |
| 0.15 - 0.5 | 66 to 56 | 56 to 46 |
| 0.5 - 5 | 56 | 46 |
| 5 - 30 | 60 | 50 |

TEST EQUIPMENTS

The following test equipments are used during the conducted power line tests :

| Conducted Emission room #1 | | | | | |
|----------------------------|---------------|-------------|---------------|------------------|-----------------|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due |
| BNC Coaxial Cable | CCS | BNC50 | 11 | 01/19/2023 | 01/18/2024 |
| EMI Test Receiver | R&S | ESCS 30 | 100348 | 12/09/2022 | 12/08/2023 |
| LISN | R&S | ENV216 | 101495 | 07/12/2023 | 07/11/2024 |
| LISN | SCHWARZBECK | NNLK8130 | 8130124 | 01/18/2023 | 01/17/2024 |
| Pulse Limiter | SCHWARZBECK | VTSD 9561-F | 797 | 01/19/2023 | 01/18/2024 |
| Software | e3(v6.101222) | | | | |

TEST SETUP



TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80cm above the horizontal ground plane. The EUT IS CONFIGURED IN ACCORDANCE WITH ANSI C63.10.

The resolution bandwidth is set to 9 kHz for both quasi-peak detection and average detection measurements.

Line conducted data is recorded for both NEUTRAL and LINE.

TEST RESULTS

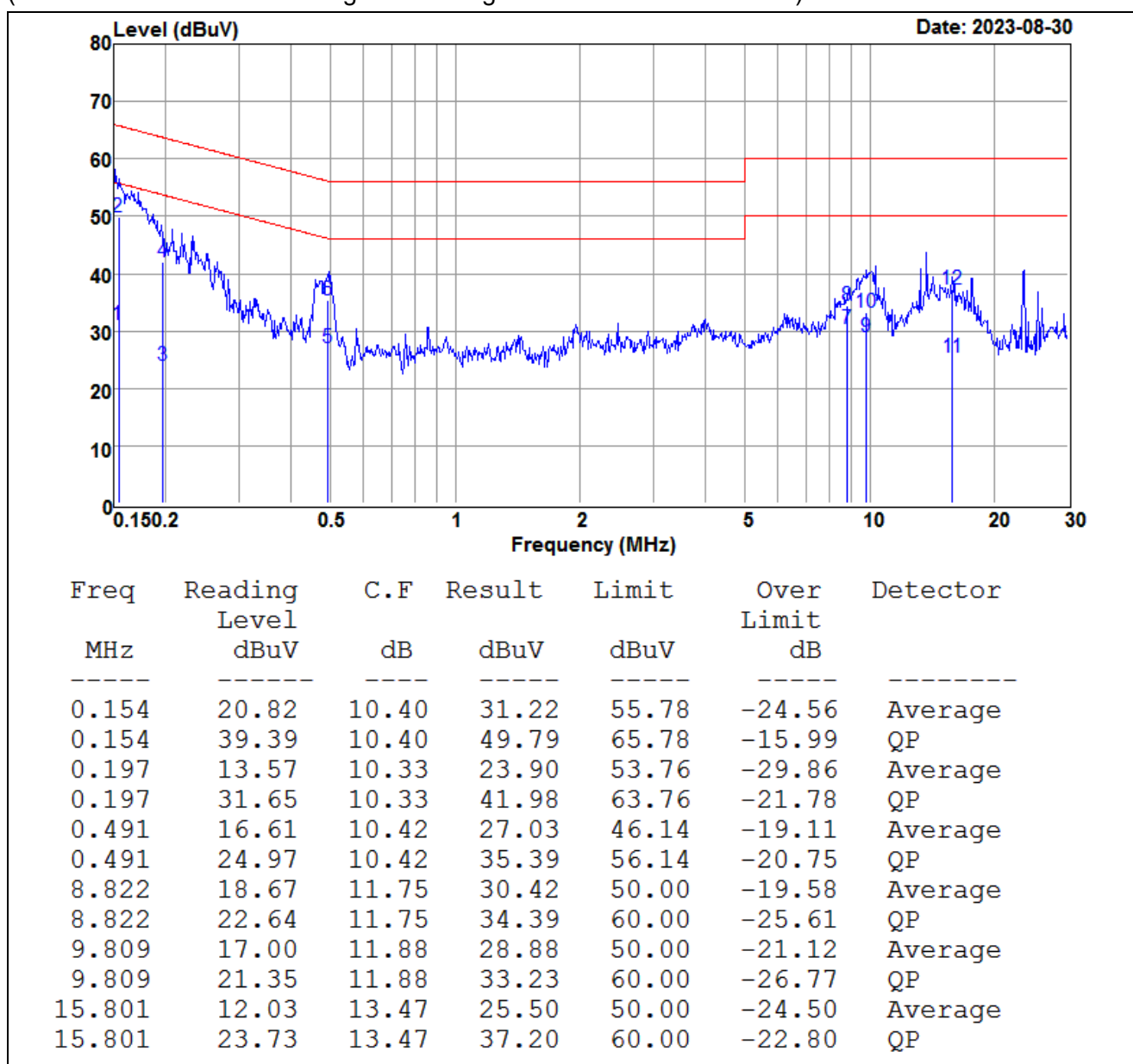
No non-compliance noted.

Test Voltage: AC 120V, 60Hz

| | | | |
|--------------------------|----------------|----------------------|------------------|
| Model No. | ACVR | Test Mode | Normal Operation |
| Environmental Conditions | 25.1°C, 55% RH | Resolution Bandwidth | 9 kHz |
| Tested by | Jeremy Zhong | | |

Line

(The chart below shows the highest readings taken from the final data.)



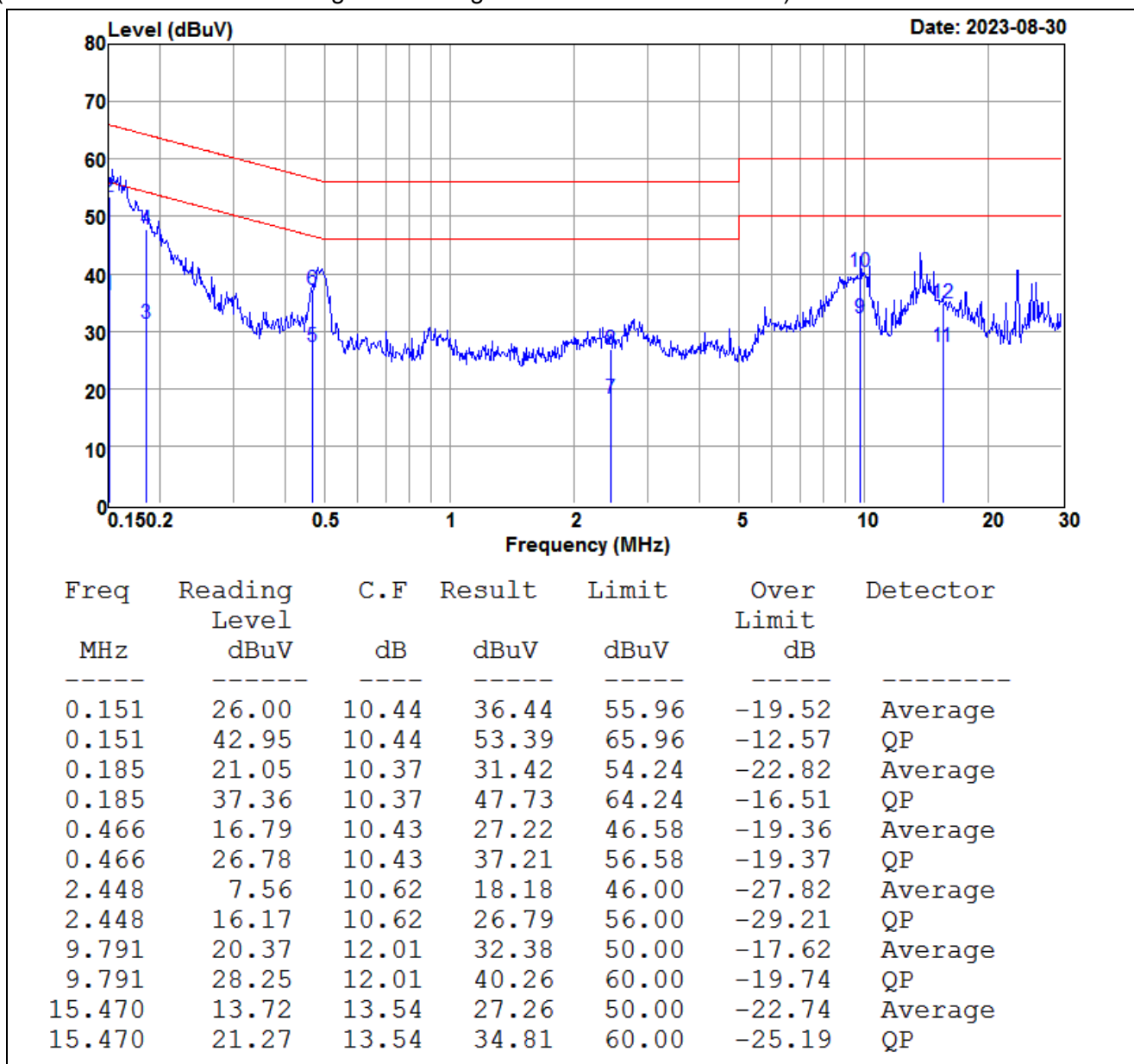
NOTE:

1. Measured Level (dBuV) = LISN Factor (dB) + Cable Loss (dB)+ Meter Reading (dBuV)
2. Over Limit (dBuV) = Measured Level (dBuV) – Limits (dBuV)

| | | | |
|--------------------------|----------------|----------------------|------------------|
| Model No. | ACVR | Test Mode | Normal Operation |
| Environmental Conditions | 25.1°C, 55% RH | Resolution Bandwidth | 9 kHz |
| Tested by | Jeremy Zhong | | |

Neutral

(The chart below shows the highest readings taken from the final data.)



NOTE:

1. Measured Level (dBuV) = LISN Factor (dB) + Cable Loss (dB) + Meter Reading (dBuV)
2. Over Limit (dBuV) = Measured Level (dBuV) – Limits (dBuV)

9. ANTENNA REQUIREMENT

9.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

9.2 ANTENNA CONNECTED CONSTRUCTION

Type: WLAN ANTENNA
Model: DB1EM60-I0195-S
Manufacturer: BRITO
Gain: 4.63 dBi

=== END of Report ===