

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

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY54430216	07/20/2020	07/19/2021
Power Meter	Anritsu	ML2487A	6K00003888	11/20/2019	05/19/2021
Power Sensor	Anritsu	MA2491A	033265	11/20/2019	05/19/2021
SMA Cable + 10dB Attenuator	CCS	SMA+10dB ATT	SMA/10dB	01/29/2021	01/28/2022
Software	Excel(ccs-o6-2020 v1.1)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY54430216	07/20/2020	07/19/2021
Power Meter	Anritsu	ML2487A	6K00003888	05/18/2021	05/17/2023
Power Sensor	Anritsu	MA2491A	033265	05/18/2021	05/17/2023
SMA Cable + 10dB Attenuator	CCS	SMA+10dB ATT	SMA/10dB	01/29/2021	01/28/2022
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.

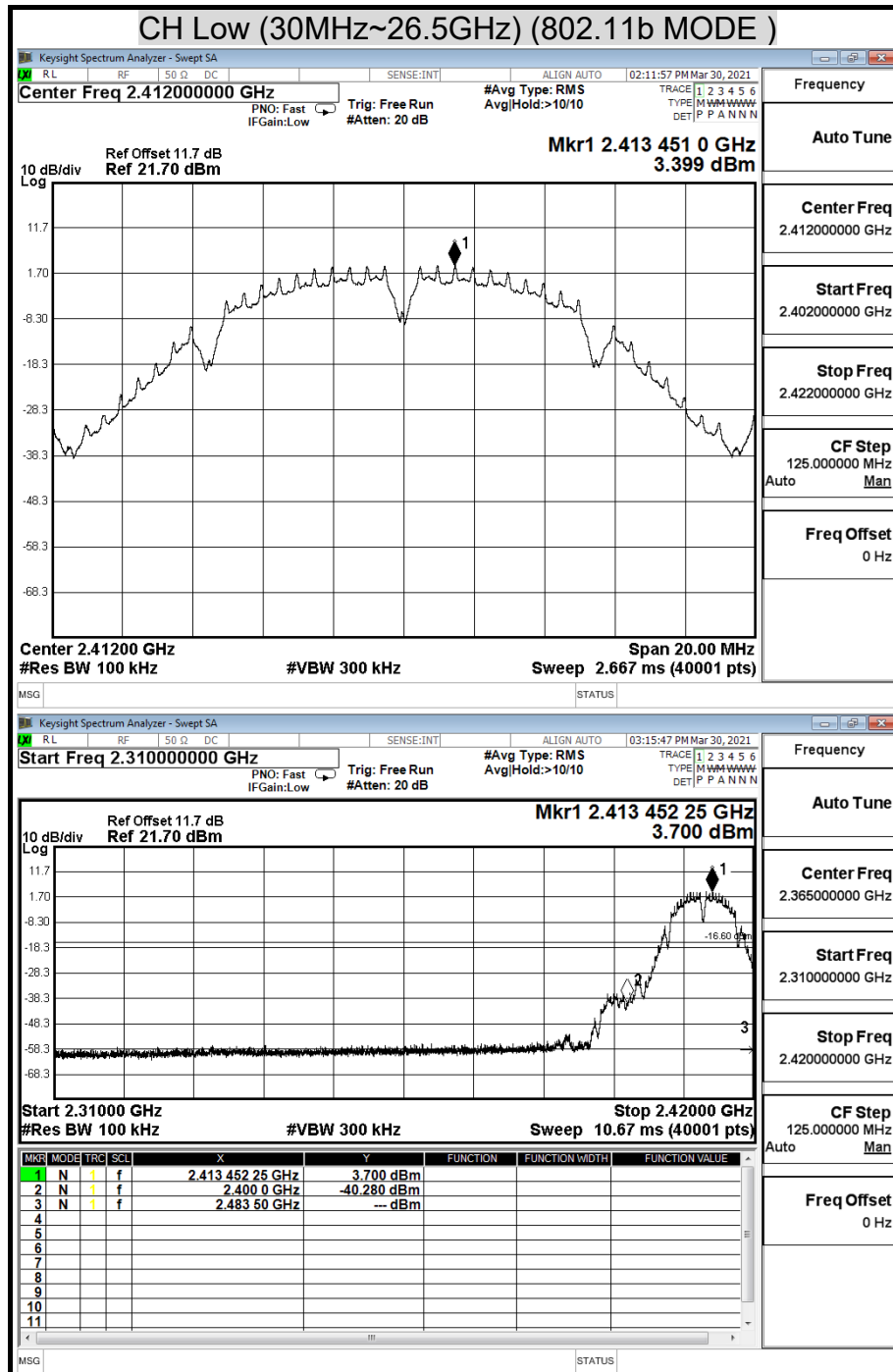
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

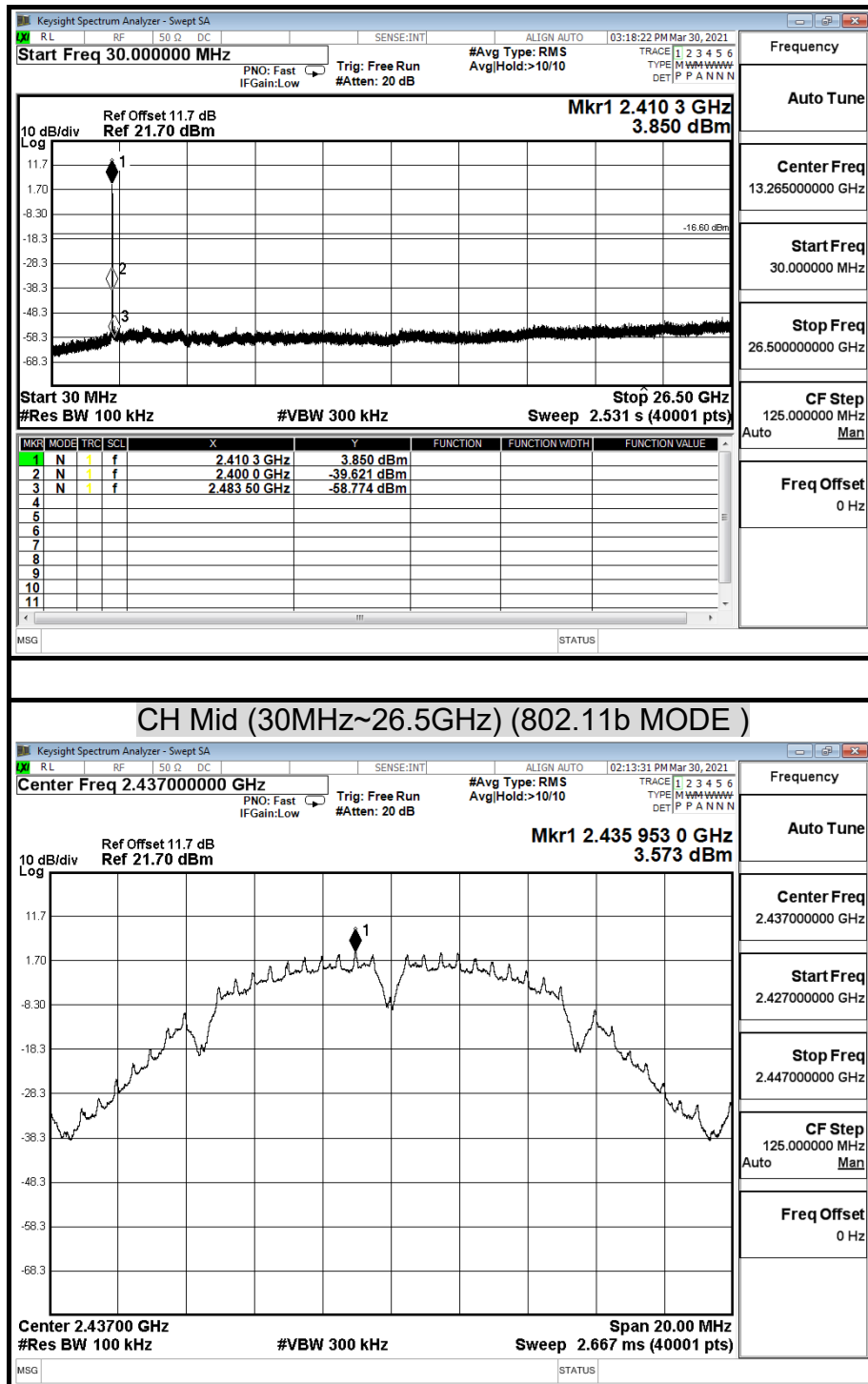
TEST RESULTS

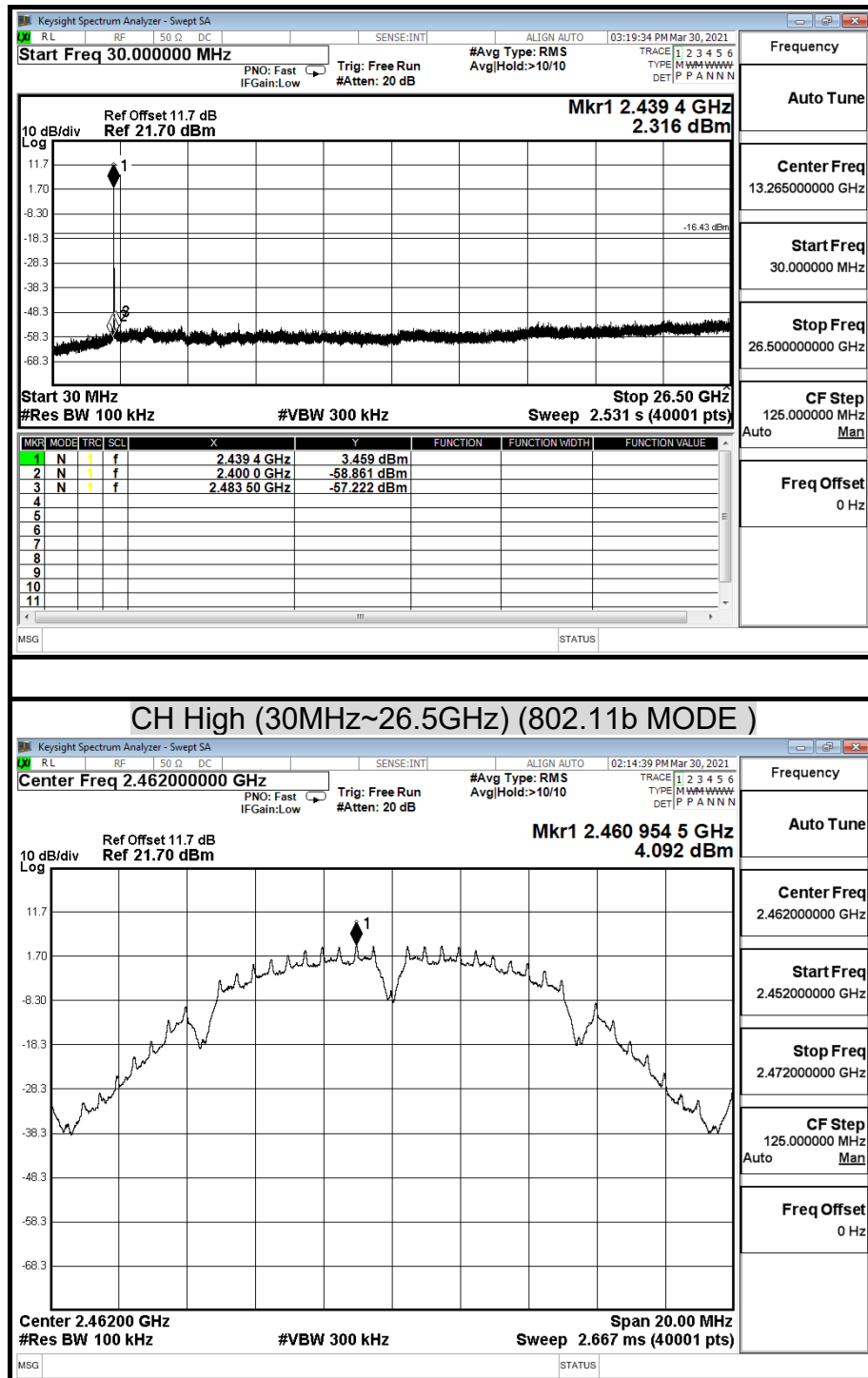
OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT

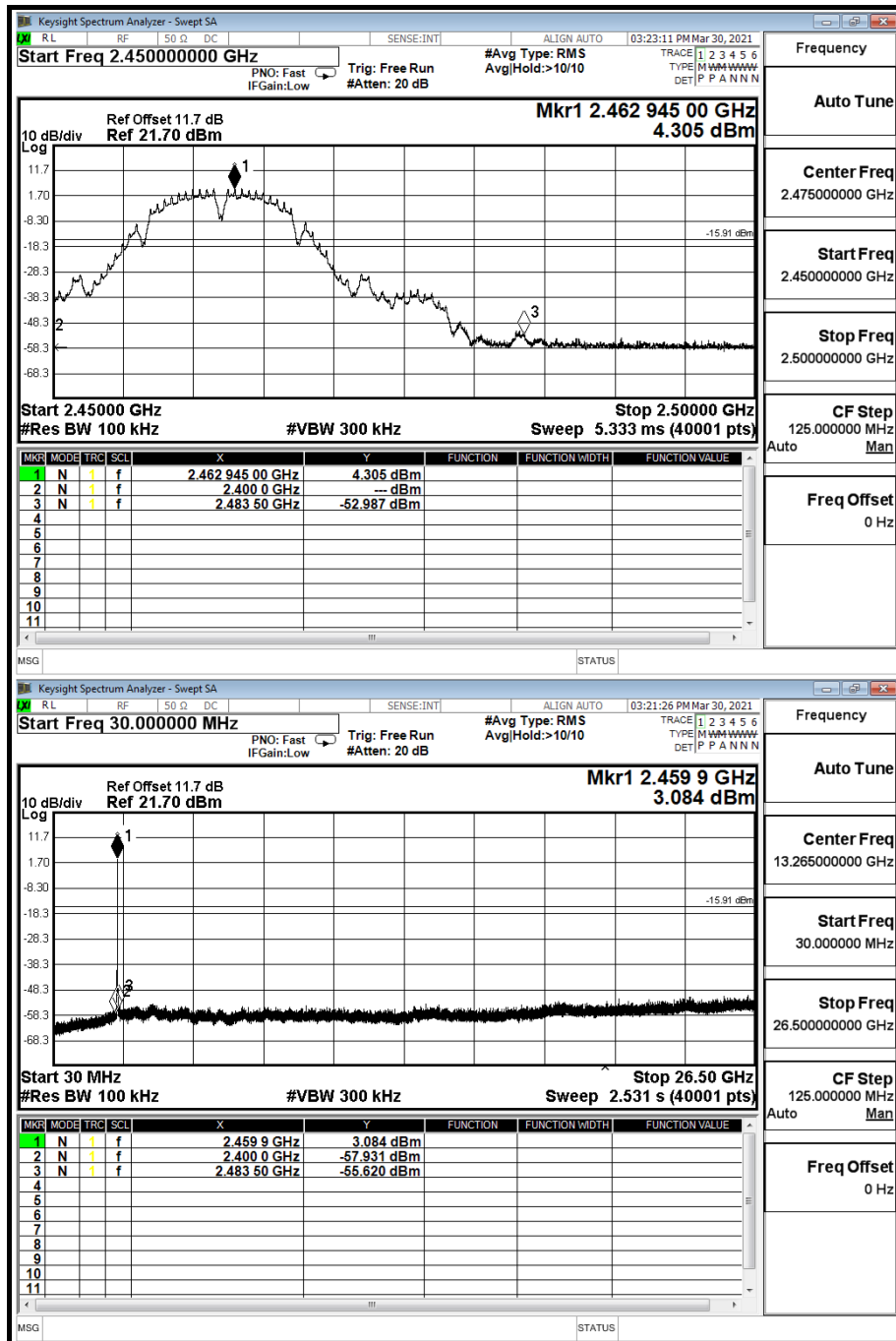
Model Name	MIXSTREAM	Test By	Ted Huang
Temp & Humidity	25.6°C, 52%	Test Date	2021/04/01

(IEEE 802.11b MODE)



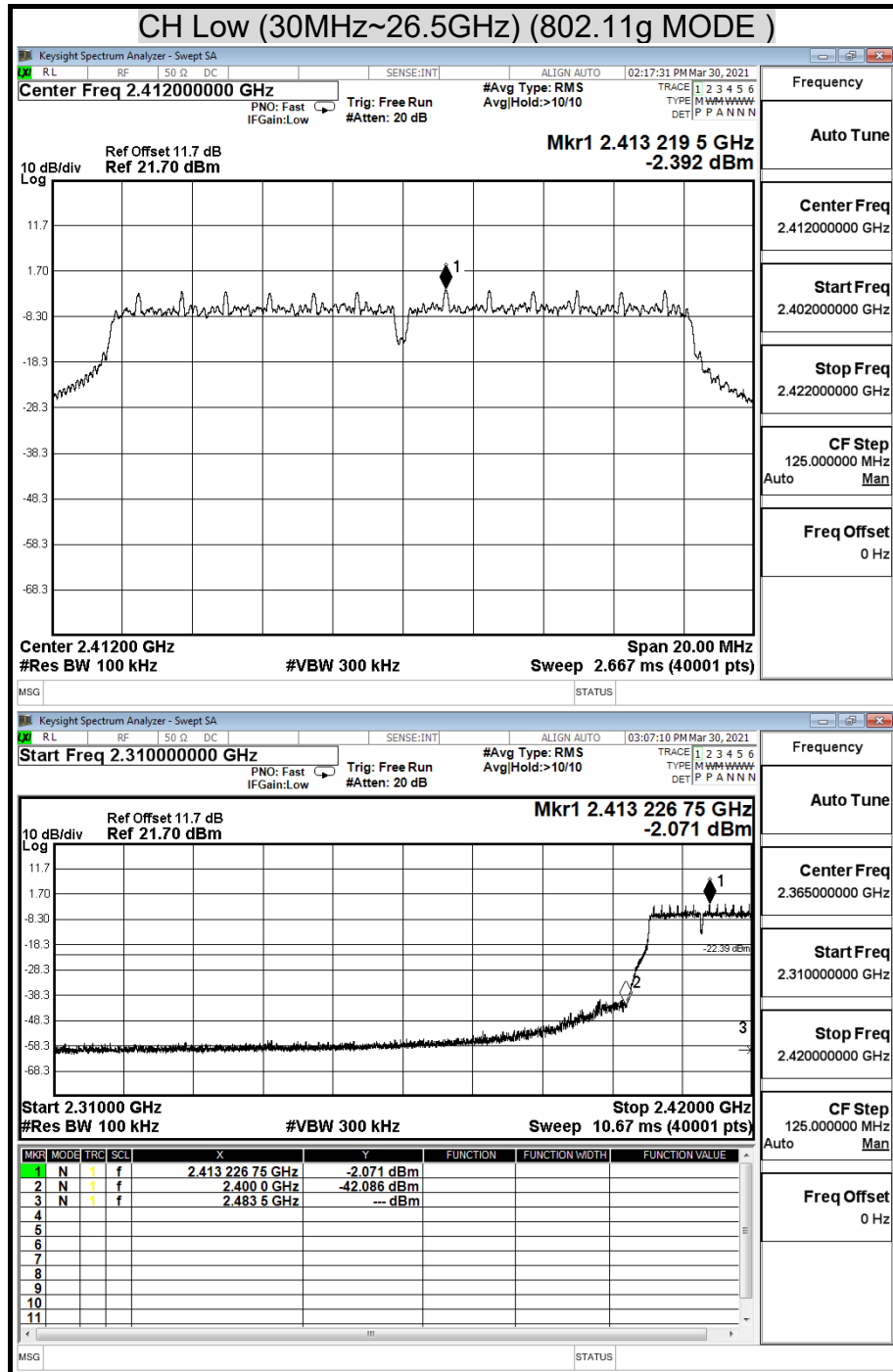


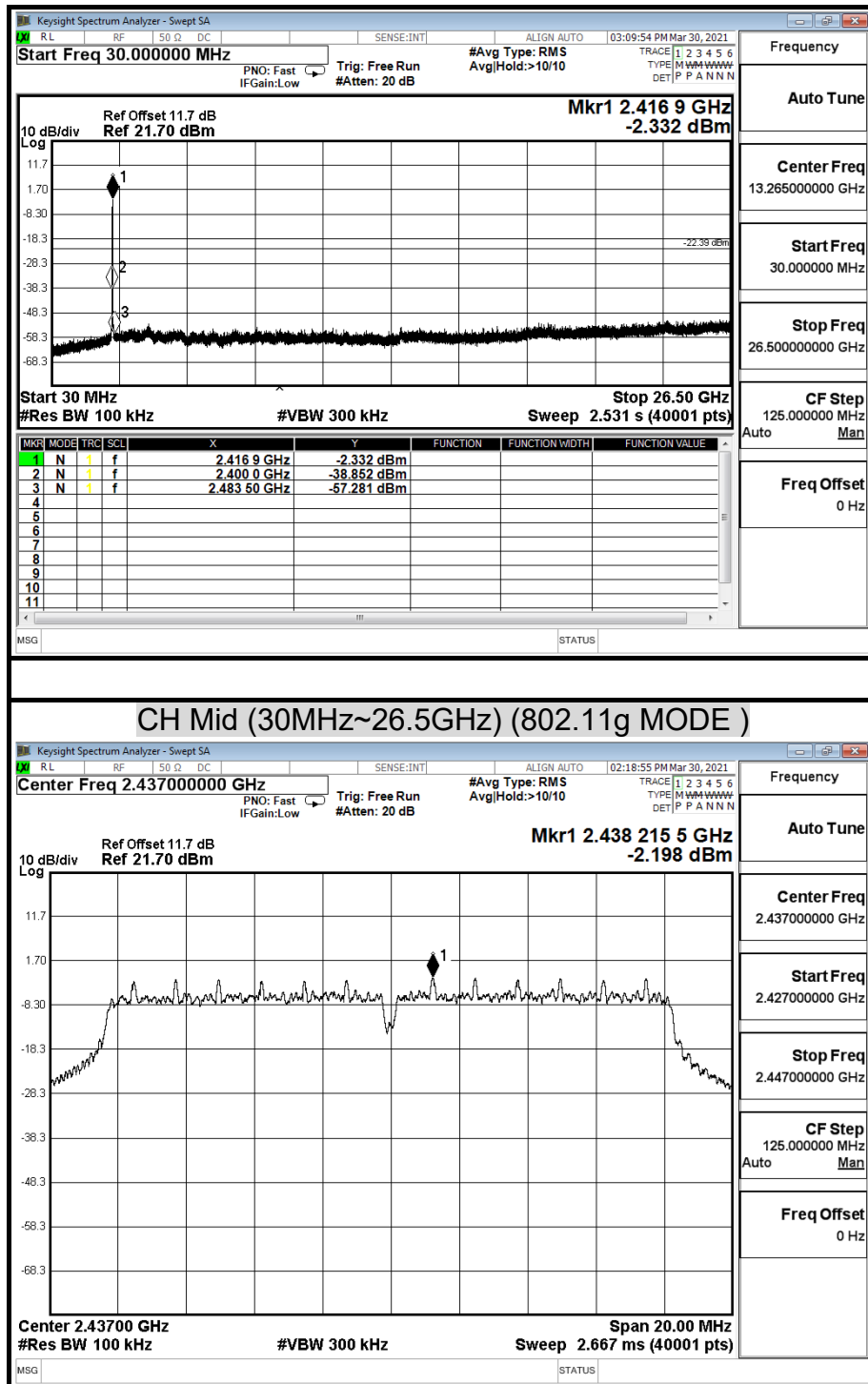


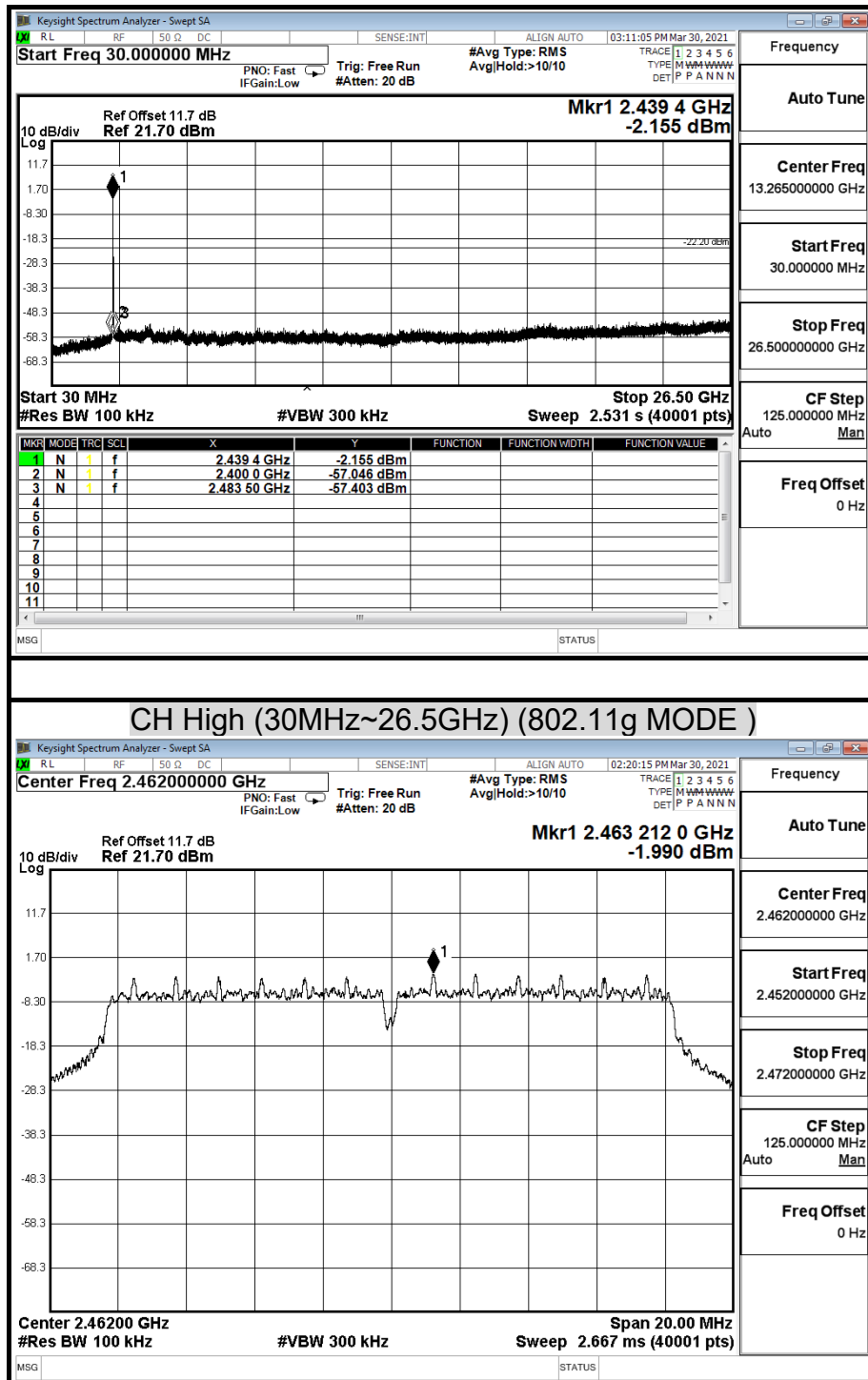


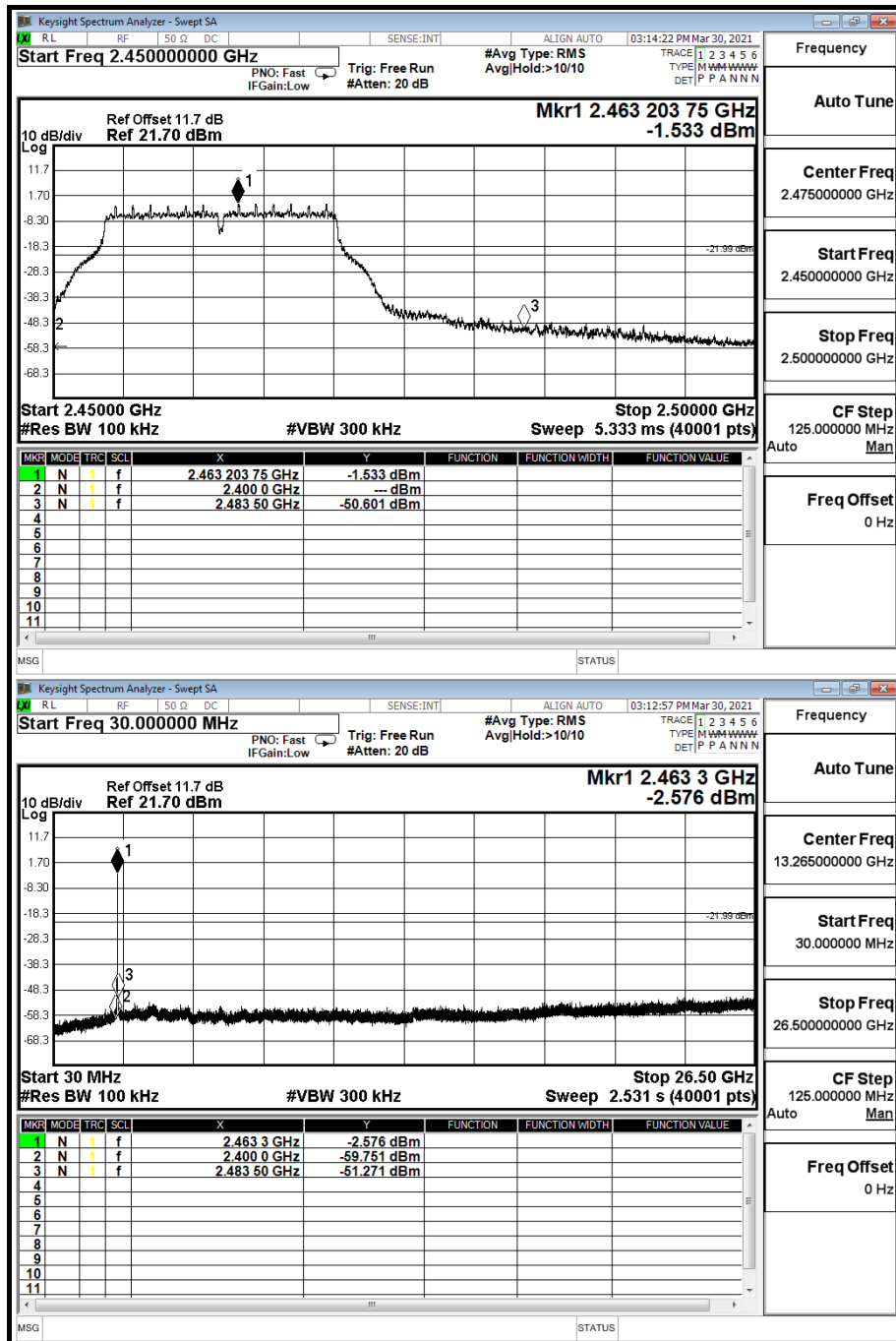
OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT

(802.11g MODE)



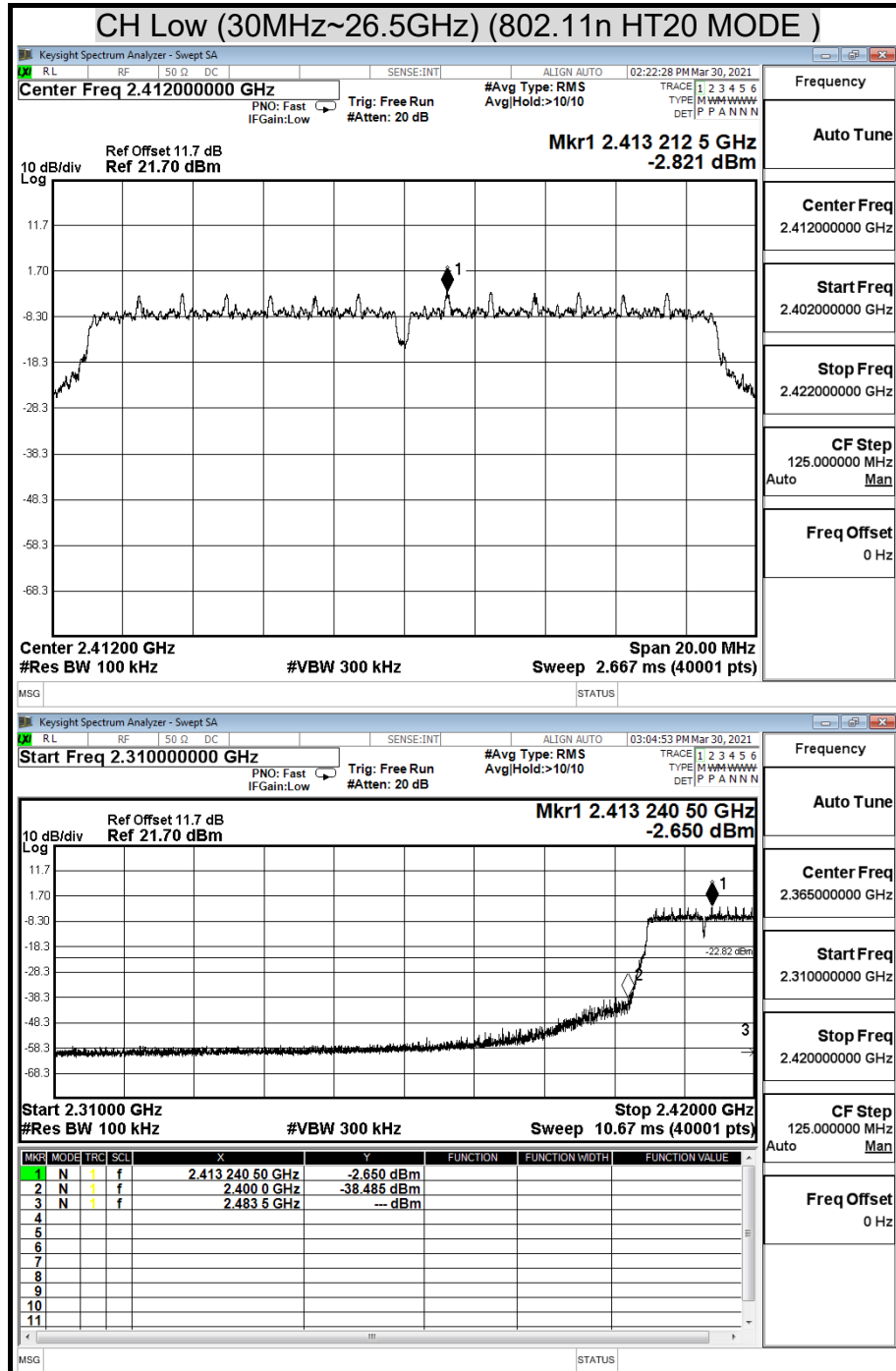


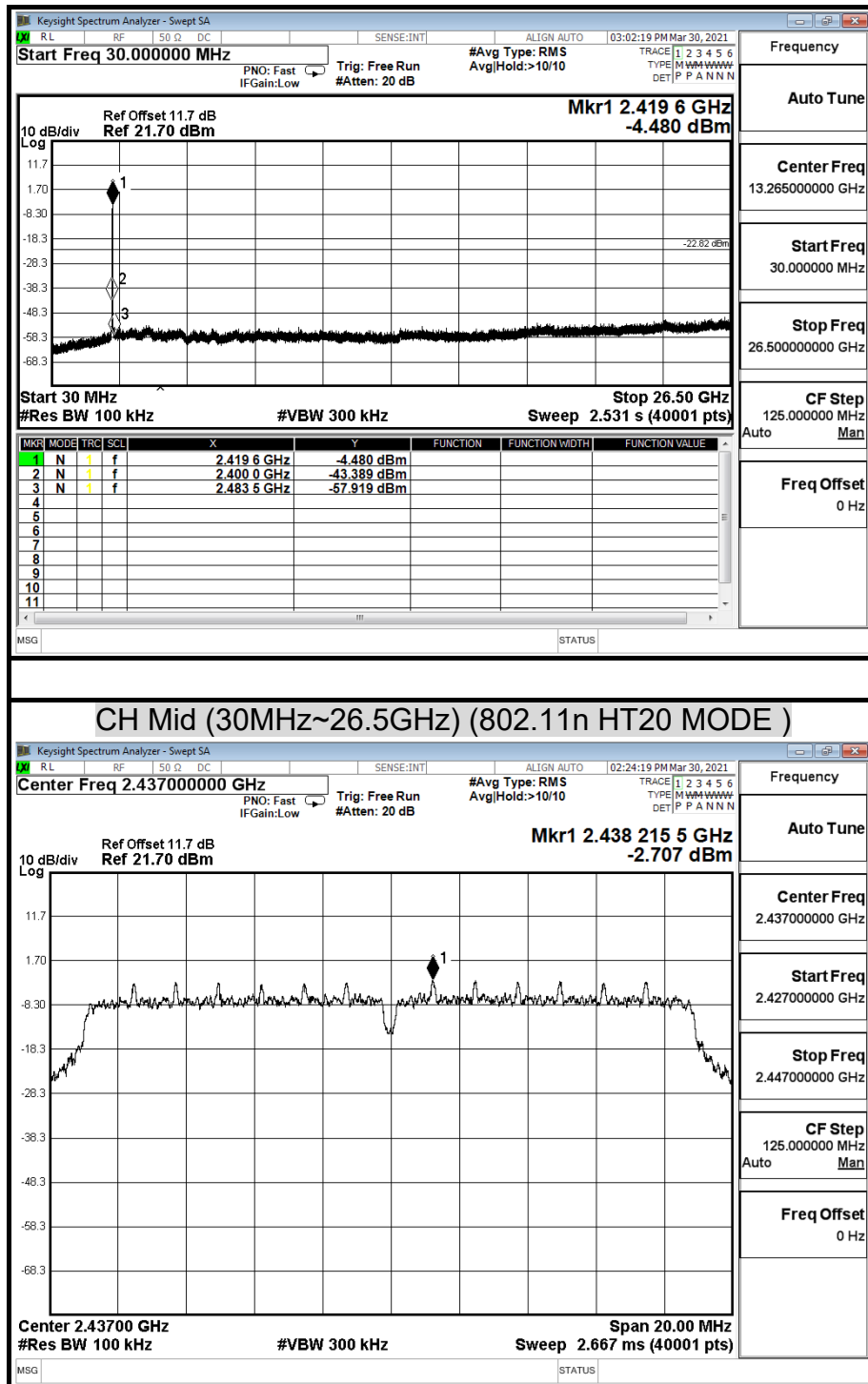


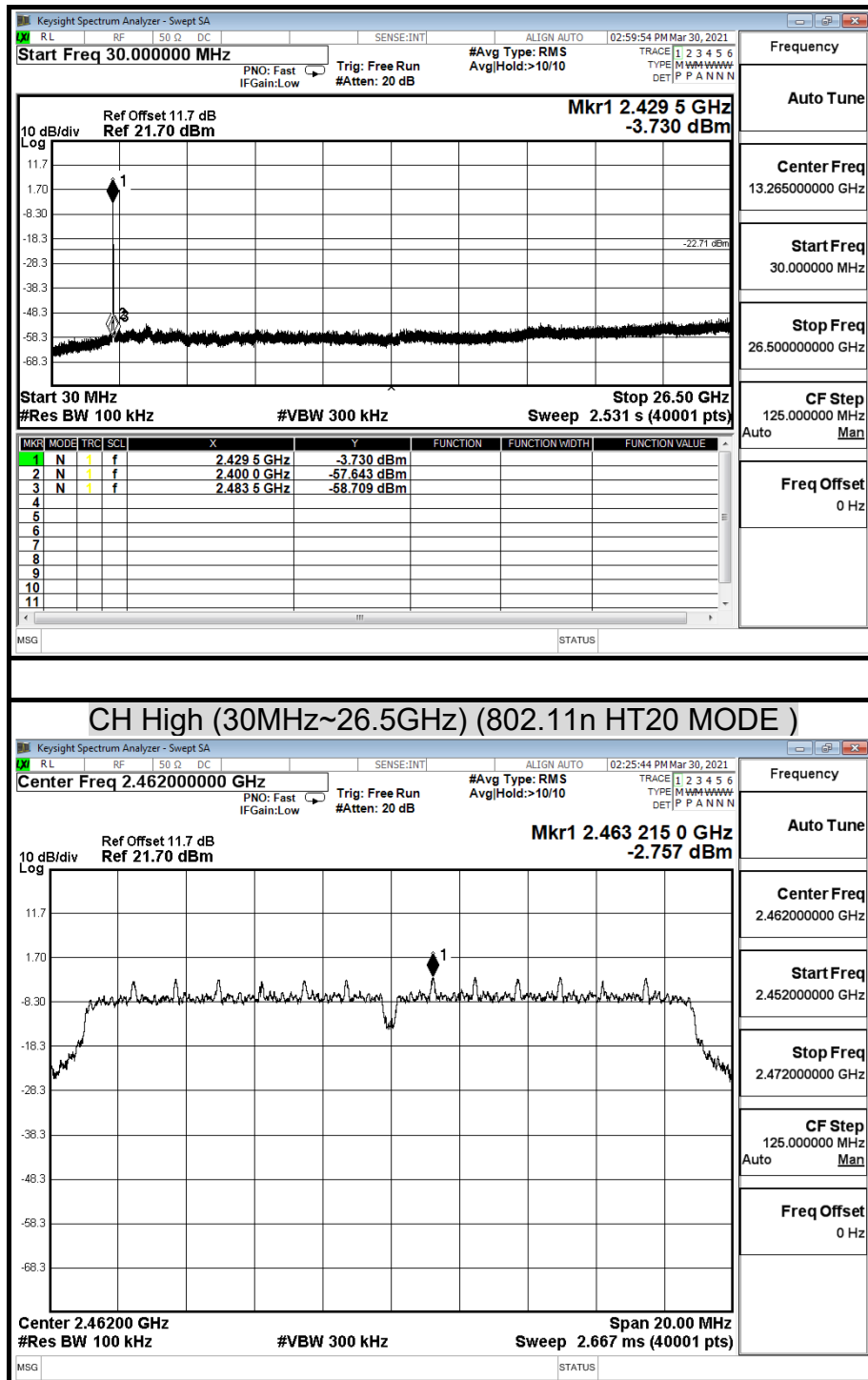


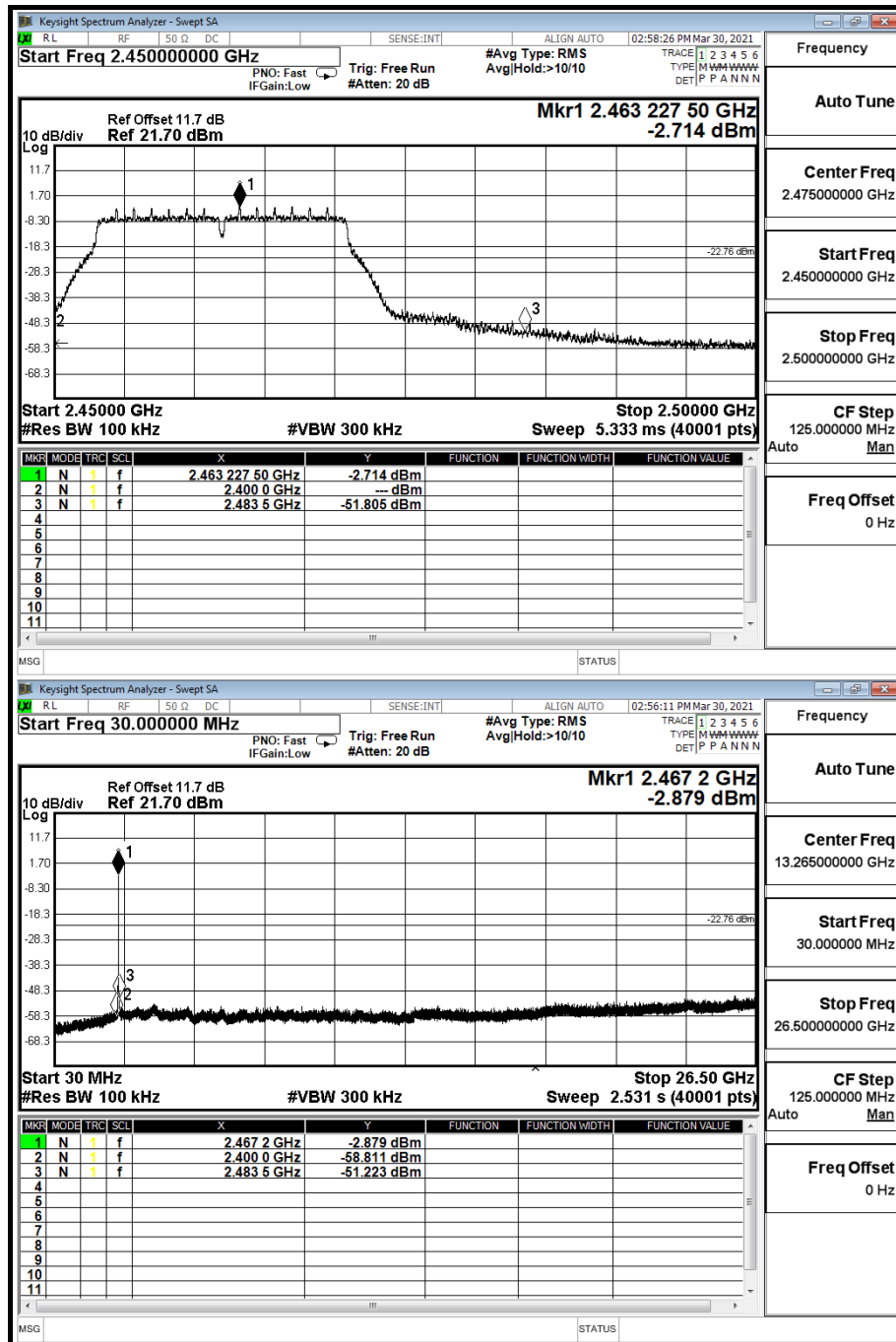
OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT

(802.11n HT20 MODE)





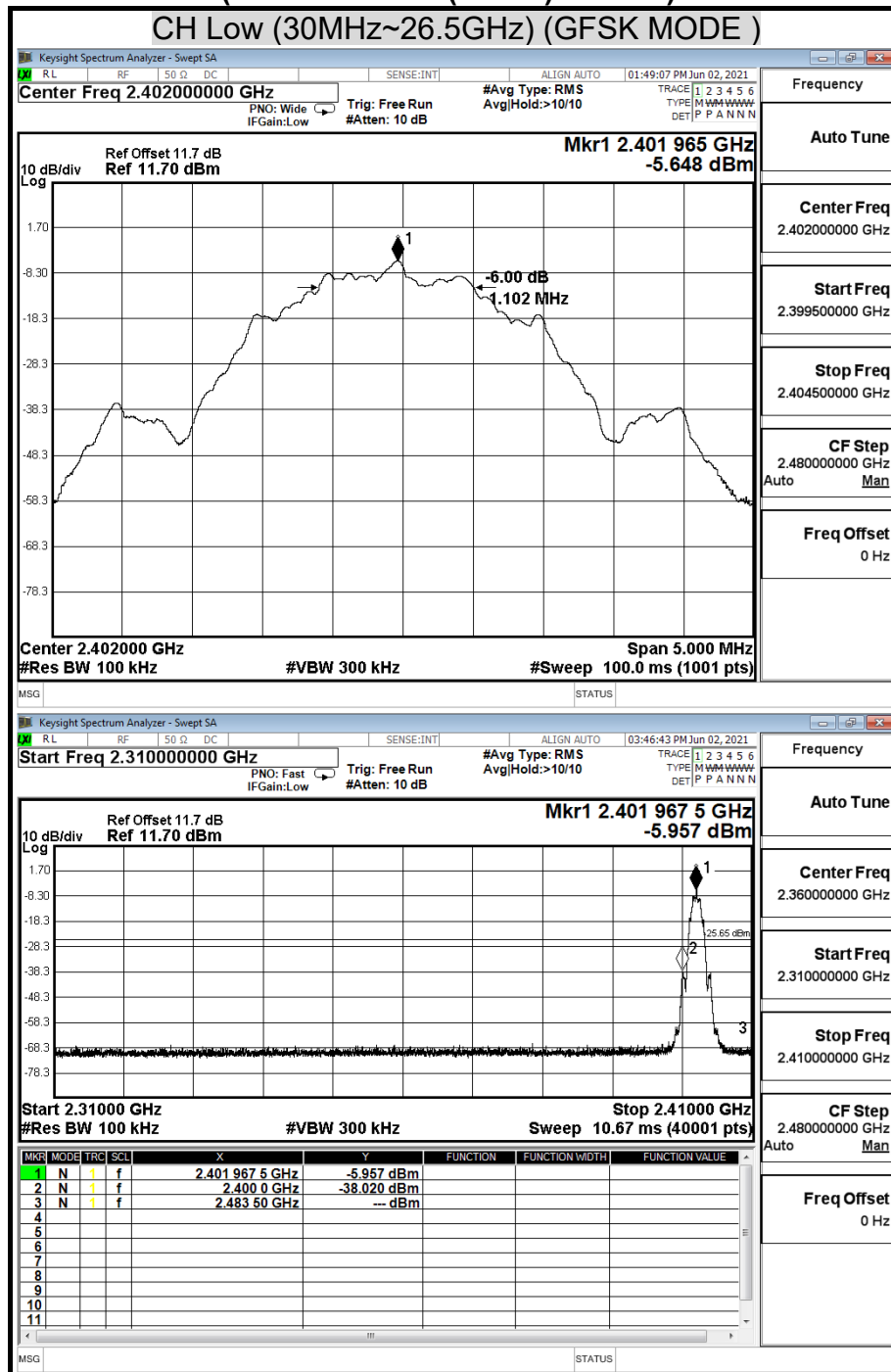


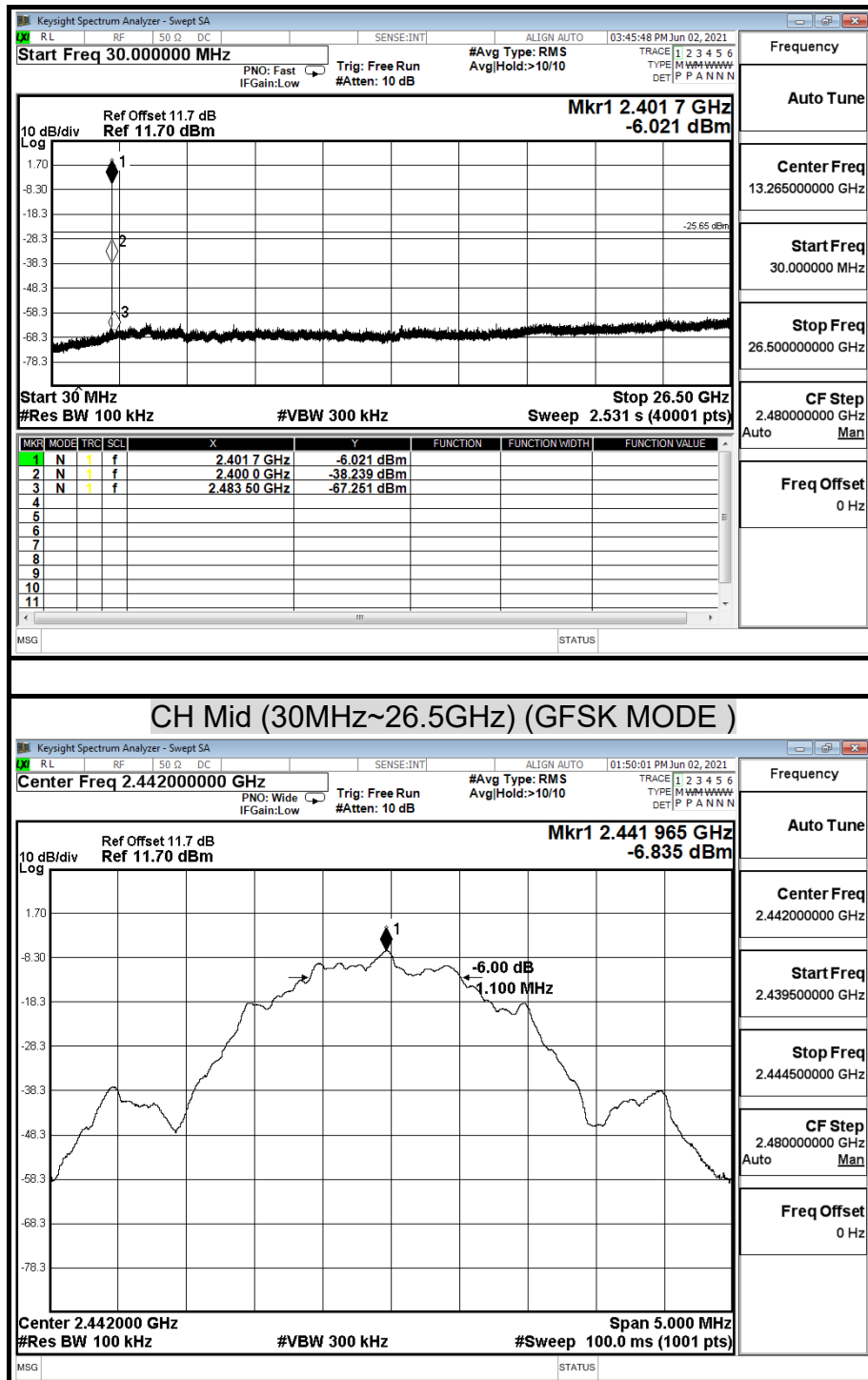


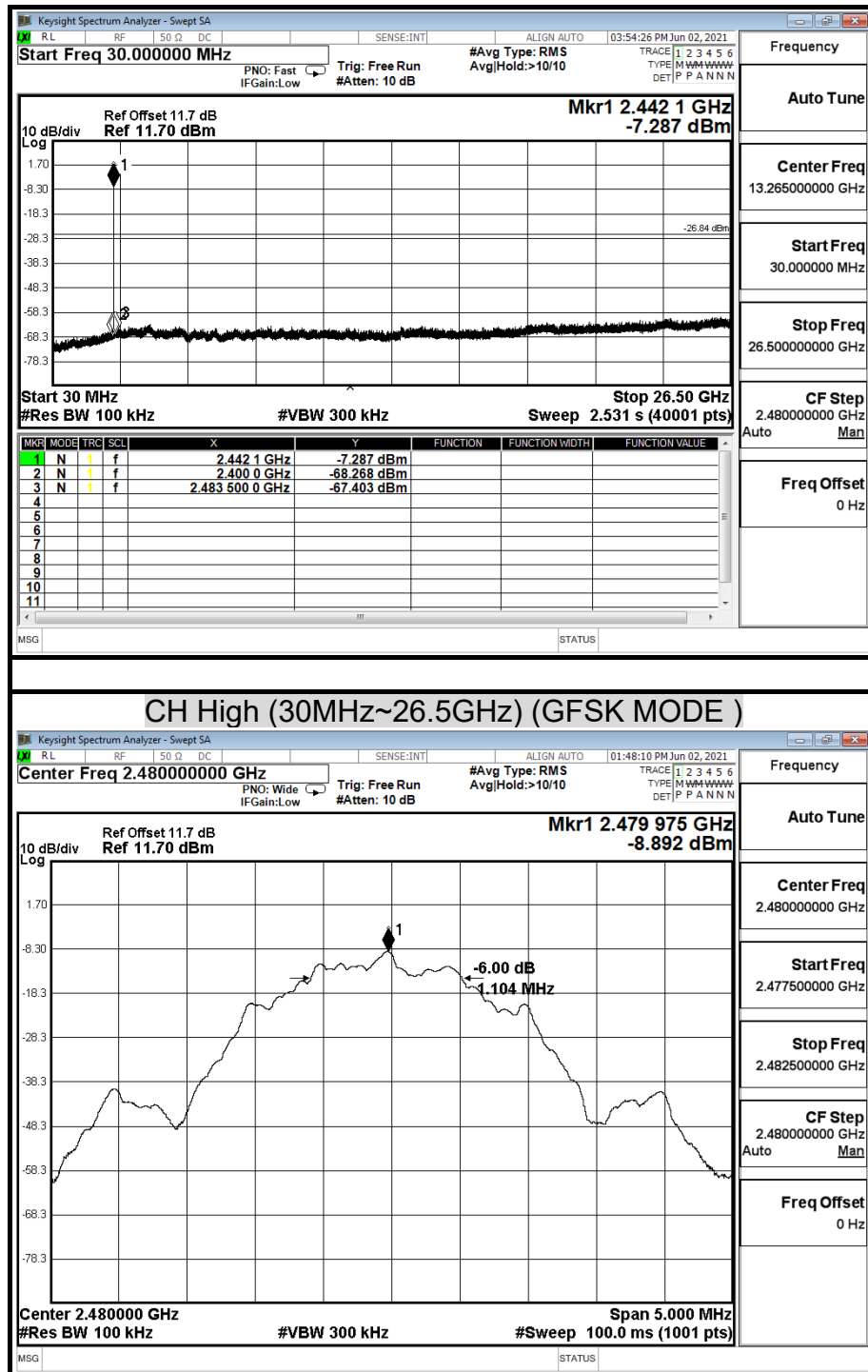
OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT

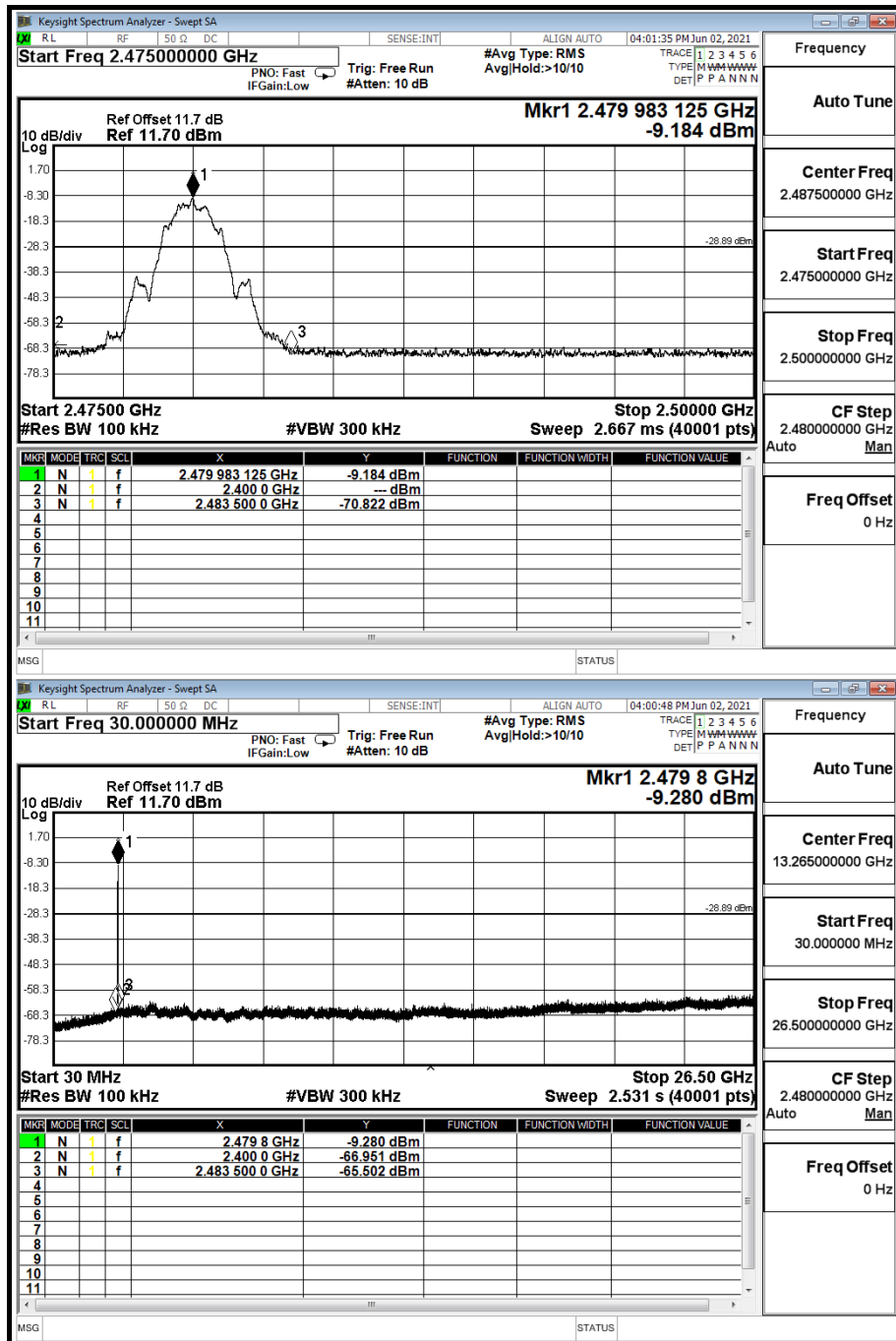
Model Name	MIXSTREAM	Test By	Ted Huang
Temp & Humidity	31.9°C, 51%	Test Date	2021/06/02

(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.

§ 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

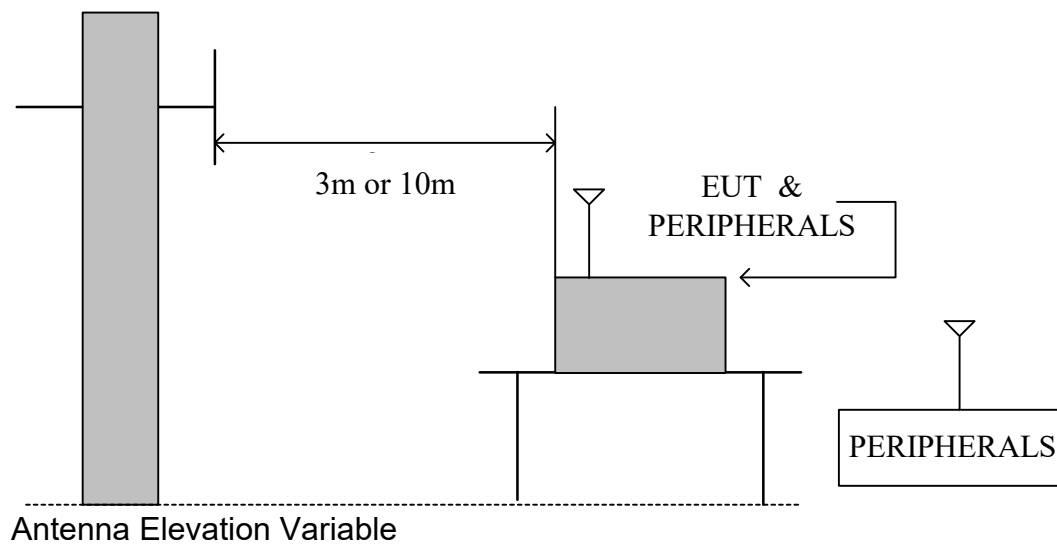
The following test equipments are utilized in making the measurements contained in this report.

Chamber Room #966					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Active Loop Antenna	ETS-LINDREN	6502	8905-2356	08/02/2019	08/01/2021
Bilog Antenna With 6dB Attenuator	SUNOL SCIENCES & EMCI	JB1 & AT-N0681	A070506-1 & AT-N0681	09/14/2020	09/13/2021
Cable	Suhner	SUCOFLEX104PEA	20520/4PEA&O6	01/29/2021	01/28/2022
Double Ridged Guide Horn Antenna	ETS-LINDGREN	3116	00078900	03/30/2021	03/29/2022
EMI Test Receiver	R&S	ESCI	100960	02/05/2021	02/04/2022
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY54430216	07/20/2020	07/19/2021
Horn Antenna	Com-Power	AH-118	071032	04/29/2020	04/28/2021
Pre-Amplifier	EMCI	EMC012645	980098	01/29/2021	01/28/2022
Pre-Amplifier	HP	8447F	2443A01683	01/19/2021	01/18/2022
Pre-Amplifier	Com-Power	PAM-840A	461378	07/20/2020	07/19/2021
Type N coaxial cable	Suhner	CHA9513	6	01/19/2021	01/18/2022
Notch Filter	MICRO-TRONICS	BRM50702-01	018	N.C.R	N.C.R
Software	Excel(ccs-o6-2020 v1.1) , e3 v6.101222				

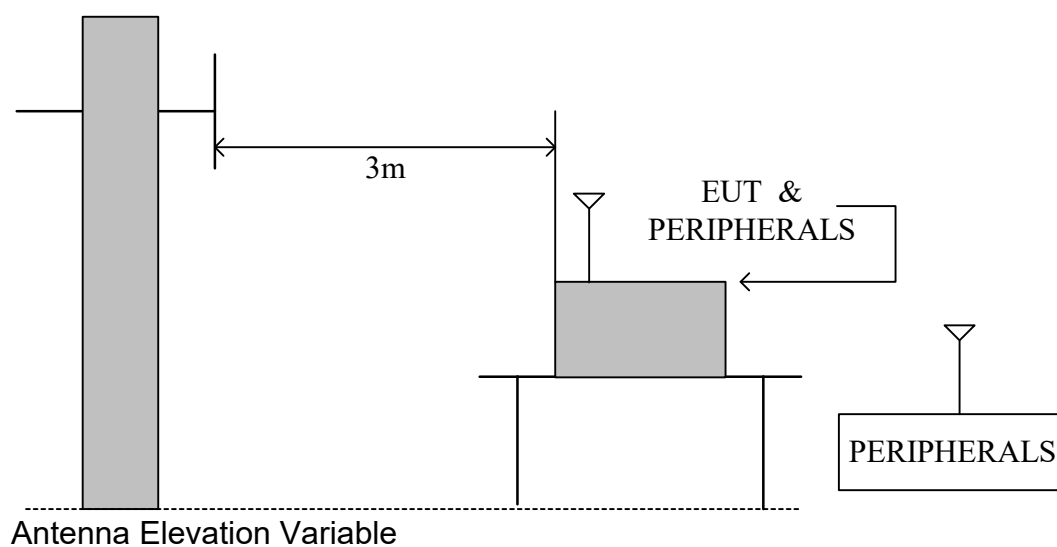
Chamber Room #966					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Active Loop Antenna	ETS-LINDREN	6502	8905-2356	08/02/2019	08/01/2021
Bilog Antenna With 6dB Attenuator	SUNOL SCIENCES & EMCI	JB1 & AT-N0681	A070506-1 & AT-N0681	09/14/2020	09/13/2021
Cable	Suhner	SUCOFLEX104PEA	20520/4PEA&O6	01/29/2021	01/28/2022
Double Ridged Guide Horn Antenna	ETS-LINDGREN	3116	00078900	03/30/2021	03/29/2022
EMI Test Receiver	R&S	ESCI	100960	02/05/2021	02/04/2022
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY54430216	07/20/2020	07/19/2021
Horn Antenna	Com-Power	AH-118	071032	05/04/2021	05/03/2022
Pre-Amplifier	EMCI	EMC012645	980098	01/29/2021	01/28/2022
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Pre-Amplifier	Com-Power	PAM-840A	461378	07/20/2020	07/19/2021
Type N coaxial cable	Suhner	CHA9513	6	01/19/2021	01/18/2022
Notch Filter	MICRO-TRONICS	BRM50702-01	018	N.C.R	N.C.R
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

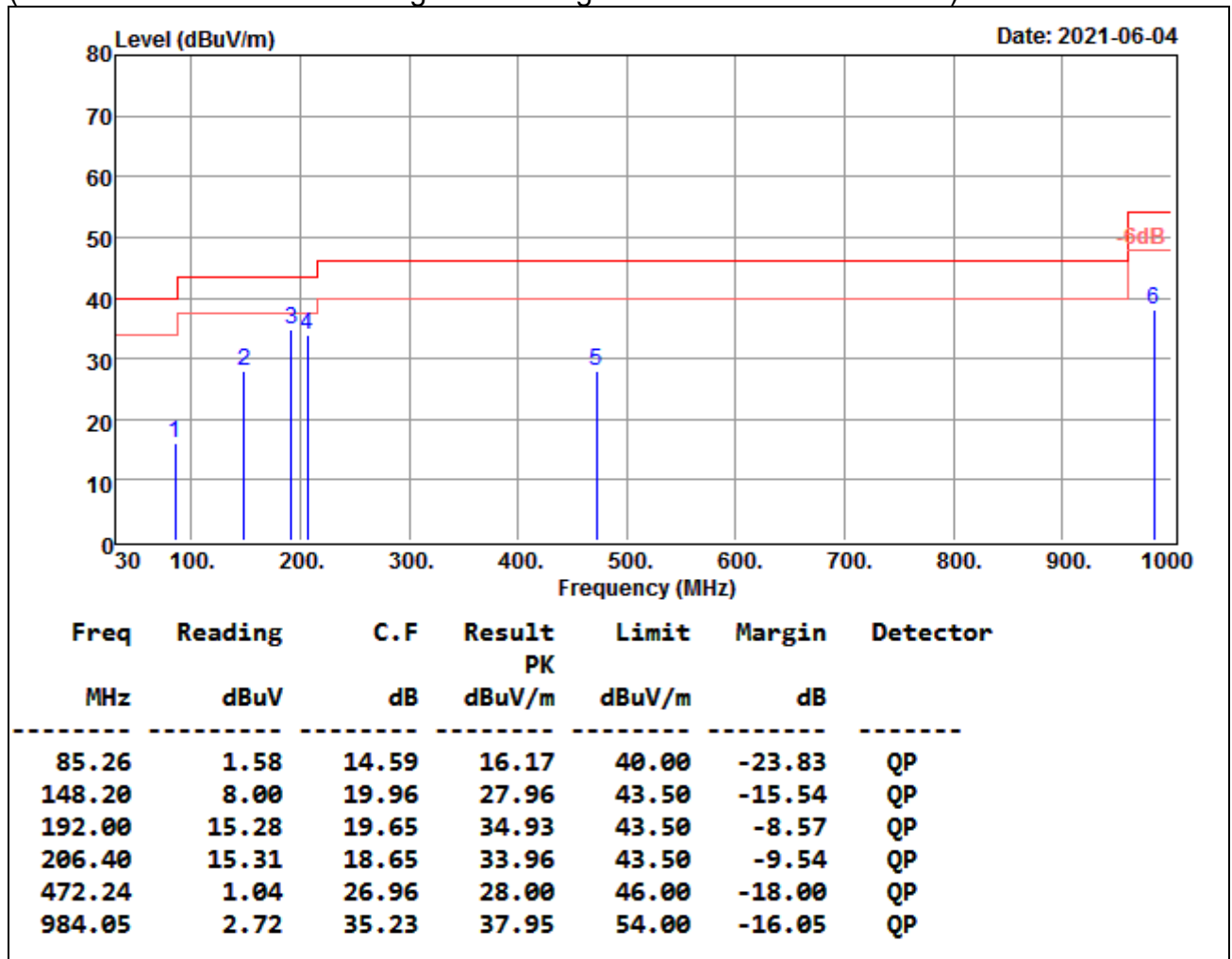
No non-compliance noted.

8.6.2 WORST-CASE RADIATED EMISSION BELOW 1 GHz

Product Name	Stand-Alone Media Player	Test Date	2021/06/04
Model	MIXSTREAM	Test By	Ted Huang
Test Mode	TX	TEMP& Humidity	26.5°C/50%

Horizontal

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



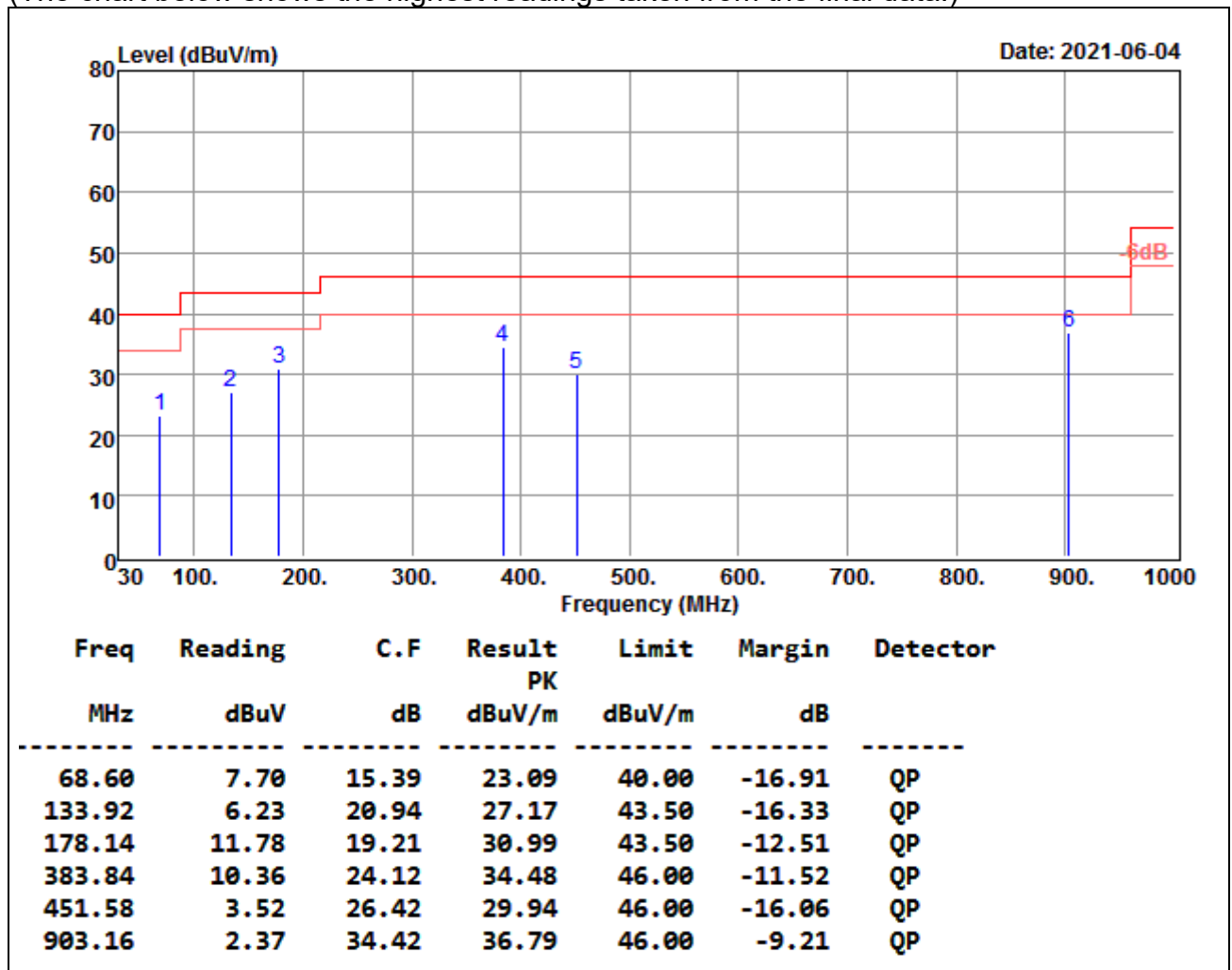
Remark:

1. No emission found between lowest internal used/generated frequency to 30MHz (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>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Emission at 3m Level=Meter Reading +Antenna Factor +Cable Loss
Margin= Emission at 3m Level -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	Stand-Alone Media Player	Test Date	2021/06/04
Model	MIXSTREAM	Test By	Ted Huang
Test Mode	TX	TEMP& Humidity	26.5°C/50%

Vertical

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



Remark:

1. No emission found between lowest internal used/generated frequency to 30MHz (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>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Emission at 3m Level=Meter Reading +Antenna Factor +Cable Loss
Margin= Emission at 3m Level -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	Stand-Alone Media Player	Test Date	2021/04/01
Model	MIXSTREAM	Test By	Ted Huang
Test Mode	IEEE 802.11b TX (CH Low)	TEMP& Humidity	25.6℃, 52%

TX / IEEE 802.11b mode / CH Low				Measurement Distance at 3m				Horizontal polarity	
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
*1489.72	58.15	26.46	3.17	44.73	0.46	43.50	74.00	-30.50	P
*1489.72	51.85	26.46	3.17	44.73	0.46	37.20	54.00	-16.80	A
*4824.10	57.18	33.30	5.47	42.61	0.22	53.57	74.00	-20.43	P
*4824.10	48.35	33.30	5.47	42.61	0.22	44.74	54.00	-9.26	A
7237.45	55.78	38.80	6.57	42.40	0.27	59.03	74.00	-14.97	P
7237.45	45.80	38.80	6.57	42.40	0.27	49.05	54.00	-4.95	A
N/A	-----	-----	-----	-----	-----	-----	-----	-----	P
N/A	-----	-----	-----	-----	-----	-----	-----	-----	A

TX / IEEE 802.11b mode / CH Low				Measurement Distance at 3m				Vertical polarity	
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
*1354.68	60.58	25.89	3.00	44.77	0.44	45.14	74.00	-28.86	P
*1354.68	56.60	25.89	3.00	44.77	0.44	41.16	54.00	-12.84	A
*4823.52	57.12	33.30	5.47	42.61	0.22	53.50	74.00	-20.50	P
*4823.52	47.60	33.30	5.47	42.61	0.22	43.98	54.00	-10.02	A
7234.76	55.66	38.79	6.57	42.40	0.27	58.89	74.00	-15.11	P
7234.76	45.30	38.79	6.57	42.40	0.27	48.53	54.00	-5.47	A
N/A	-----	-----	-----	-----	-----	-----	-----	-----	P
N/A	-----	-----	-----	-----	-----	-----	-----	-----	A

REMARK:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: 2.4GHz~2.5GHz Filter Insertion Loss
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 20dB below the limit
5. The test limit distance is 3M limit.
6. *=Restricted bands of operation

Product Name	Stand-Alone Media Player	Test Date	2021/04/01
Model	MIXSTREAM	Test By	Ted Huang
Test Mode	IEEE 802.11b TX (CH Middle)	TEMP& Humidity	25.6℃, 52%

TX / IEEE 802.11b mode / CH Middle				Measurement Distance at 3m				Horizontal polarity	
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 1489.66	58.58	26.46	3.17	44.73	0.46	43.93	74.00	-30.07	P
* 1489.66	51.68	26.46	3.17	44.73	0.46	37.03	54.00	-16.97	A
* 4874.15	56.45	33.47	5.51	42.60	0.23	53.05	74.00	-20.95	P
* 4874.15	46.52	33.47	5.51	42.60	0.23	43.12	54.00	-10.88	A
* 7312.50	56.78	39.09	6.59	42.30	0.27	60.43	74.00	-13.57	P
* 7312.50	46.48	39.09	6.59	42.30	0.27	50.13	54.00	-3.87	A
N/A	-----	-----	-----	-----	-----	-----	-----	-----	P
N/A	-----	-----	-----	-----	-----	-----	-----	-----	A

TX / IEEE 802.11b mode / CH Middle				Measurement Distance at 3m				Vertical polarity	
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 1354.62	60.75	25.89	3.00	44.77	0.44	45.31	74.00	-28.69	P
* 1354.62	56.46	25.89	3.00	44.77	0.44	41.02	54.00	-12.98	A
* 4875.95	56.58	33.48	5.51	42.60	0.23	53.19	74.00	-20.81	P
* 4875.95	47.48	33.48	5.51	42.60	0.23	44.09	54.00	-9.91	A
* 7309.76	55.72	39.08	6.59	42.30	0.27	59.35	74.00	-14.65	P
* 7309.76	45.66	39.08	6.59	42.30	0.27	49.29	54.00	-4.71	A
N/A	-----	-----	-----	-----	-----	-----	-----	-----	P
N/A	-----	-----	-----	-----	-----	-----	-----	-----	A

REMARK:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: 2.4GHz~2.5GHz Filter Insertion Loss
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter , Margin = Level-Limit
4. The other emission levels were 20dB below the limit
5. The test limit distance is 3M limit.
6. *=Restricted bands of operation

Product Name	Stand-Alone Media Player	Test Date	2021/04/01
Model	MIXSTREAM	Test By	Ted Huang
Test Mode	IEEE 802.11b TX (CH High)	TEMP& Humidity	25.6°C, 52%

TX / IEEE 802.11b mode / CH High				Measurement Distance at 3m				Horizontal polarity	
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 1489.62	58.62	26.46	3.17	44.73	0.46	43.97	74.00	-30.03	P
* 1489.62	51.75	26.46	3.17	44.73	0.46	37.10	54.00	-16.90	A
* 4923.72	57.45	33.64	5.54	42.60	0.23	54.27	74.00	-19.73	P
* 4923.72	47.68	33.64	5.54	42.60	0.23	44.50	54.00	-9.50	A
* 7389.50	57.25	39.38	6.61	42.20	0.27	61.31	74.00	-12.69	P
* 7389.50	48.52	39.38	6.61	42.20	0.27	52.58	54.00	-1.42	A
N/A	-----	-----	-----	-----	-----	-----	-----	-----	P
N/A	-----	-----	-----	-----	-----	-----	-----	-----	A

TX / IEEE 802.11b mode / CH High				Measurement Distance at 3m				Vertical polarity	
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 1354.56	60.62	25.89	3.00	44.77	0.44	45.18	74.00	-28.82	P
* 1354.56	56.74	25.89	3.00	44.77	0.44	41.30	54.00	-12.70	A
* 4923.95	56.66	33.64	5.54	42.60	0.23	53.48	74.00	-20.52	P
* 4923.95	46.48	33.64	5.54	42.60	0.23	43.30	54.00	-10.70	A
* 7384.12	55.85	39.36	6.60	42.20	0.27	59.88	74.00	-14.12	P
* 7384.12	46.52	39.36	6.60	42.20	0.27	50.55	54.00	-3.45	A
N/A	-----	-----	-----	-----	-----	-----	-----	-----	P
N/A	-----	-----	-----	-----	-----	-----	-----	-----	A

REMARK:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: 2.4GHz~2.5GHz Filter Insertion Loss
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 20dB below the limit
5. The test limit distance is 3M limit.
6. *=Restricted bands of operation

Product Name	Stand-Alone Media Player	Test Date	2021/04/01
Model	MIXSTREAM	Test By	Ted Huang
Test Mode	IEEE 802.11g TX (CH Low)	TEMP& Humidity	25.6°C, 52%

TX / IEEE 802.11g mode / CH Low				Measurement Distance at 3m				Horizontal polarity	
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
*1489.65	58.58	26.46	3.17	44.73	0.46	43.93	74.00	-30.07	P
*1489.65	51.63	26.46	3.17	44.73	0.46	36.98	54.00	-17.02	A
*4824.15	60.56	33.30	5.47	42.61	0.22	56.95	74.00	-17.05	P
*4824.15	51.58	33.30	5.47	42.61	0.22	47.97	54.00	-6.03	A
7237.75	56.36	38.80	6.57	42.40	0.27	59.61	74.00	-14.39	P
7237.75	45.40	38.80	6.57	42.40	0.27	48.65	54.00	-5.35	A
N/A	-----	-----	-----	-----	-----	-----	-----	-----	P
N/A	-----	-----	-----	-----	-----	-----	-----	-----	A

TX / IEEE 802.11g mode / CH Low				Measurement Distance at 3m				Vertical polarity	
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
*1354.63	60.75	25.89	3.00	44.77	0.44	45.31	74.00	-28.69	P
*1354.63	56.62	25.89	3.00	44.77	0.44	41.18	54.00	-12.82	A
*4824.24	57.33	33.30	5.47	42.61	0.22	53.72	74.00	-20.28	P
*4824.24	46.58	33.30	5.47	42.61	0.22	42.97	54.00	-11.03	A
7238.65	55.46	38.81	6.57	42.39	0.27	58.72	74.00	-15.28	P
7238.65	45.82	38.81	6.57	42.39	0.27	49.08	54.00	-4.92	A
N/A	-----	-----	-----	-----	-----	-----	-----	-----	P
N/A	-----	-----	-----	-----	-----	-----	-----	-----	A

REMARK:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: 2.4GHz~2.5GHz Filter Insertion Loss
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 20dB below the limit
5. The test limit distance is 3M limit.
6. *=Restricted bands of operation

Product Name	Stand-Alone Media Player	Test Date	2021/04/01
Model	MIXSTREAM	Test By	Ted Huang
Test Mode	IEEE 802.11g TX (CH Middle)	TEMP& Humidity	25.6°C, 52%

TX / IEEE 802.11g mode / CH Middle				Measurement Distance at 3m				Horizontal polarity	
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 1489.78	58.62	26.46	3.17	44.73	0.46	43.97	74.00	-30.03	P
* 1489.78	51.85	26.46	3.17	44.73	0.46	37.20	54.00	-16.80	A
* 4872.85	56.58	33.47	5.51	42.60	0.23	53.18	74.00	-20.82	P
* 4872.85	45.76	33.47	5.51	42.60	0.23	42.36	54.00	-11.64	A
* 7312.54	55.66	39.09	6.59	42.30	0.27	59.31	74.00	-14.69	P
* 7312.54	44.45	39.09	6.59	42.30	0.27	48.10	54.00	-5.90	A
N/A	-----	-----	-----	-----	-----	-----	-----	-----	P
N/A	-----	-----	-----	-----	-----	-----	-----	-----	A

TX / IEEE 802.11g mode / CH Middle				Measurement Distance at 3m				Vertical polarity	
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 1354.58	60.65	25.89	3.00	44.77	0.44	45.21	74.00	-28.79	P
* 1354.58	56.78	25.89	3.00	44.77	0.44	41.34	54.00	-12.66	A
* 4874.86	55.62	33.47	5.51	42.60	0.23	52.23	74.00	-21.77	P
* 4874.86	45.35	33.47	5.51	42.60	0.23	41.96	54.00	-12.04	A
* 7313.62	56.45	39.09	6.59	42.30	0.27	60.10	74.00	-13.90	P
* 7313.62	44.75	39.09	6.59	42.30	0.27	48.40	54.00	-5.60	A
N/A	-----	-----	-----	-----	-----	-----	-----	-----	P
N/A	-----	-----	-----	-----	-----	-----	-----	-----	A

REMARK:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: 2.4GHz~2.5GHz Filter Insertion Loss
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 20dB below the limit
5. The test limit distance is 3M limit.
6. *=Restricted bands of operation

Product Name	Stand-Alone Media Player	Test Date	2021/04/01
Model	MIXSTREAM	Test By	Ted Huang
Test Mode	IEEE 802.11g TX (CH High)	TEMP& Humidity	25.6℃, 52%

TX / IEEE 802.11g mode / CH High				Measurement Distance at 3m				Horizontal polarity	
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 1489.78	58.45	26.46	3.17	44.73	0.46	43.80	74.00	-30.20	P
* 1489.78	51.68	26.46	3.17	44.73	0.46	37.03	54.00	-16.97	A
* 4923.62	57.24	33.64	5.54	42.60	0.23	54.06	74.00	-19.94	P
* 4923.62	46.52	33.64	5.54	42.60	0.23	43.34	54.00	-10.66	A
* 7386.45	55.17	39.37	6.61	42.20	0.27	59.21	74.00	-14.79	P
* 7386.45	44.68	39.37	6.61	42.20	0.27	48.72	54.00	-5.28	A
N/A	-----	-----	-----	-----	-----	-----	-----	-----	P
N/A	-----	-----	-----	-----	-----	-----	-----	-----	A

TX / IEEE 802.11g mode / CH High				Measurement Distance at 3m				Vertical polarity	
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 1354.76	61.23	25.89	3.00	44.77	0.44	45.79	74.00	-28.21	P
* 1354.76	56.75	25.89	3.00	44.77	0.44	41.31	54.00	-12.69	A
* 4921.96	56.62	33.63	5.54	42.60	0.23	53.43	74.00	-20.57	P
* 4921.96	45.45	33.63	5.54	42.60	0.23	42.26	54.00	-11.74	A
* 7357.68	55.36	39.26	6.60	42.24	0.27	59.25	74.00	-14.75	P
* 7357.68	44.06	39.26	6.60	42.24	0.27	47.95	54.00	-6.05	A
N/A	-----	-----	-----	-----	-----	-----	-----	-----	P
N/A	-----	-----	-----	-----	-----	-----	-----	-----	A

REMARK:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: 2.4GHz~2.5GHz Filter Insertion Loss
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 20dB below the limit
5. The test limit distance is 3M limit.
6. *=Restricted bands of operation

Product Name	Stand-Alone Media Player	Test Date	2021/04/01
Model	MIXSTREAM	Test By	Ted Huang
Test Mode	IEEE 802.11n HT20 TX (CH Low)	TEMP& Humidity	25.6°C, 52%

TX / IEEE 802.11n HT20 mode / CH Low				Measurement Distance at 3m				Horizontal polarity	
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 1489.65	58.58	26.46	3.17	44.73	0.46	43.93	74.00	-30.07	P
* 1489.65	51.65	26.46	3.17	44.73	0.46	37.00	54.00	-17.00	A
* 4824.25	57.75	33.30	5.47	42.61	0.22	54.14	74.00	-19.86	P
* 4824.25	48.85	33.30	5.47	42.61	0.22	45.24	54.00	-8.76	A
7235.86	56.45	38.80	6.57	42.40	0.27	59.69	74.00	-14.31	P
7235.86	45.62	38.80	6.57	42.40	0.27	48.86	54.00	-5.14	A
N/A	-----	-----	-----	-----	-----	-----	-----	-----	P
N/A	-----	-----	-----	-----	-----	-----	-----	-----	A

TX / IEEE 802.11n HT20 mode / CH Low				Measurement Distance at 3m				Vertical polarity	
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 1354.60	60.56	25.89	3.00	44.77	0.44	45.12	74.00	-28.88	P
* 1354.60	56.36	25.89	3.00	44.77	0.44	40.92	54.00	-13.08	A
* 4823.84	58.25	33.30	5.47	42.61	0.22	54.64	74.00	-19.36	P
* 4823.84	53.18	33.30	5.47	42.61	0.22	49.57	54.00	-4.43	A
7235.25	55.45	38.79	6.57	42.40	0.27	58.69	74.00	-15.31	P
7235.25	44.75	38.79	6.57	42.40	0.27	47.99	54.00	-6.01	A
N/A	-----	-----	-----	-----	-----	-----	-----	-----	P
N/A	-----	-----	-----	-----	-----	-----	-----	-----	A

REMARK:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: 2.4GHz~2.5GHz Filter Insertion Loss
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter , Margin = Level-Limit
4. The other emission levels were 20dB below the limit
5. The test limit distance is 3M limit.
6. *=Restricted bands of operation

Product Name	Stand-Alone Media Player	Test Date	2021/04/01
Model	MIXSTREAM	Test By	Ted Huang
Test Mode	IEEE 802.11n HT20 TX (CH Middle)	TEMP& Humidity	25.6°C, 52%

TX / IEEE 802.11n HT20 mode / CH Middle				Measurement Distance at 3m				Horizontal polarity	
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 1489.68	58.62	26.46	3.17	44.73	0.46	43.97	74.00	-30.03	P
* 1489.68	51.75	26.46	3.17	44.73	0.46	37.10	54.00	-16.90	A
* 4873.96	58.63	33.47	5.51	42.60	0.23	55.23	74.00	-18.77	P
* 4873.96	52.42	33.47	5.51	42.60	0.23	49.02	54.00	-4.98	A
* 7310.26	55.45	39.08	6.59	42.30	0.27	59.09	74.00	-14.91	P
* 7310.26	45.68	39.08	6.59	42.30	0.27	49.32	54.00	-4.68	A
N/A	-----	-----	-----	-----	-----	-----	-----	-----	P
N/A	-----	-----	-----	-----	-----	-----	-----	-----	A

TX / IEEE 802.11n HT20 mode / CH Middle				Measurement Distance at 3m				Vertical polarity	
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 1354.62	60.75	25.89	3.00	44.77	0.44	45.31	74.00	-28.69	P
* 1354.62	56.85	25.89	3.00	44.77	0.44	41.41	54.00	-12.59	A
* 4874.08	58.72	33.47	5.51	42.60	0.23	55.32	74.00	-18.68	P
* 4874.08	48.65	33.47	5.51	42.60	0.23	45.25	54.00	-8.75	A
* 7312.42	55.36	39.09	6.59	42.30	0.27	59.01	74.00	-14.99	P
* 7312.42	44.48	39.09	6.59	42.30	0.27	48.13	54.00	-5.87	A
N/A	-----	-----	-----	-----	-----	-----	-----	-----	P
N/A	-----	-----	-----	-----	-----	-----	-----	-----	A

REMARK:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: 2.4GHz~2.5GHz Filter Insertion Loss
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 20dB below the limit
5. The test limit distance is 3M limit.
6. *=Restricted bands of operation

Product Name	Stand-Alone Media Player	Test Date	2021/04/01
Model	MIXSTREAM	Test By	Ted Huang
Test Mode	IEEE 802.11n HT20 TX (CH High)	TEMP& Humidity	25.6°C, 52%

TX / IEEE 802.11n HT20 mode / CH High				Measurement Distance at 3m				Horizontal polarity	
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 1489.72	58.45	26.46	3.17	44.73	0.46	43.80	74.00	-30.20	P
* 1489.72	51.68	26.46	3.17	44.73	0.46	37.03	54.00	-16.97	A
* 4921.25	56.58	33.63	5.54	42.60	0.23	53.39	74.00	-20.61	P
* 4921.25	45.42	33.63	5.54	42.60	0.23	42.23	54.00	-11.77	A
* 7386.43	55.55	39.37	6.61	42.20	0.27	59.59	74.00	-14.41	P
* 7386.43	45.26	39.37	6.61	42.20	0.27	49.30	54.00	-4.70	A
N/A	-----	-----	-----	-----	-----	-----	-----	-----	P
N/A	-----	-----	-----	-----	-----	-----	-----	-----	A

TX / IEEE 802.11n HT20 mode / CH High				Measurement Distance at 3m				Vertical polarity	
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 1354.65	60.78	25.89	3.00	44.77	0.44	45.34	74.00	-28.66	P
* 1354.65	56.52	25.89	3.00	44.77	0.44	41.08	54.00	-12.92	A
* 4920.46	56.77	33.63	5.54	42.60	0.23	53.57	74.00	-20.43	P
* 4920.46	45.39	33.63	5.54	42.60	0.23	42.19	54.00	-11.81	A
* 7389.96	55.25	39.38	6.61	42.20	0.27	59.31	74.00	-14.69	P
* 7389.96	44.09	39.38	6.61	42.20	0.27	48.15	54.00	-5.85	A
N/A	-----	-----	-----	-----	-----	-----	-----	-----	P
N/A	-----	-----	-----	-----	-----	-----	-----	-----	A

REMARK:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: 2.4GHz~2.5GHz Filter Insertion Loss
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 20dB below the limit
5. The test limit distance is 3M limit.
6. *=Restricted bands of operation

Product Name	Stand-Alone Media Player	Test Date	2021/06/02
Model	MIXSTREAM	Test By	Ted Huang
Test Mode	Bluetooth 5.0 TX (CH Low)	TEMP& Humidity	31.9°C, 51%

TX / Bluetooth 5.0 (GFSK) mode / CH Low				Measurement Distance at 3m				Horizontal polarity	
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 1338.04	58.15	25.92	2.98	44.78	0.44	42.71	74.00	-31.29	P
* 1338.04	47.89	25.92	2.98	44.78	0.44	32.45	54.00	-21.55	A
* 1493.11	58.81	26.57	3.17	44.73	0.46	44.28	74.00	-29.72	P
* 1493.11	47.55	26.57	3.17	44.73	0.46	33.02	54.00	-20.98	A
* 4803.71	56.68	33.07	5.45	42.61	0.22	52.82	74.00	-21.18	P
* 4803.71	46.00	33.07	5.45	42.61	0.22	42.14	54.00	-11.86	A
N/A	-----	-----	-----	-----	-----	-----	-----	-----	P
N/A	-----	-----	-----	-----	-----	-----	-----	-----	A

TX / Bluetooth 5.0 (GFSK) mode / CH Low				Measurement Distance at 3m				Vertical polarity	
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 1491.24	59.54	26.56	3.17	44.73	0.46	45.00	74.00	-29.00	P
* 1491.24	47.22	26.56	3.17	44.73	0.46	32.68	54.00	-21.32	A
1723.36	58.20	28.39	3.39	44.43	0.69	46.24	74.00	-27.76	P
1723.36	50.23	28.39	3.39	44.43	0.69	38.27	54.00	-15.73	A
* 4802.87	56.61	33.07	5.45	42.61	0.22	52.74	74.00	-21.26	P
* 4802.87	45.52	33.07	5.45	42.61	0.22	41.65	54.00	-12.35	A
N/A	-----	-----	-----	-----	-----	-----	-----	-----	P
N/A	-----	-----	-----	-----	-----	-----	-----	-----	A

REMARK:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: 2.4GHz~2.5GHz Filter Insertion Loss
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter , Margin = Level-Limit
4. The other emission levels were 20dB below the limit
5. The test limit distance is 3M limit.
6. *=Restricted bands of operation

Product Name	Stand-Alone Media Player	Test Date	2021/06/02
Model	MIXSTREAM	Test By	Ted Huang
Test Mode	Bluetooth 5.0 TX (CH Middle)	TEMP& Humidity	31.9°C, 51%

TX / Bluetooth 5.0 (GFSK) mode / CH Middle				Measurement Distance at 3m				Horizontal polarity	
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 1338.23	59.25	25.92	2.98	44.78	0.44	43.81	74.00	-30.19	P
* 1338.23	48.63	25.92	2.98	44.78	0.44	33.19	54.00	-20.81	A
* 1493.36	58.45	26.57	3.17	44.73	0.46	43.92	74.00	-30.08	P
* 1493.36	47.18	26.57	3.17	44.73	0.46	32.65	54.00	-21.35	A
* 4884.40	56.51	33.33	5.51	42.60	0.23	52.98	74.00	-21.02	P
* 4884.40	45.39	33.33	5.51	42.60	0.23	41.86	54.00	-12.14	A
N/A	-----	-----	-----	-----	-----	-----	-----	-----	P
N/A	-----	-----	-----	-----	-----	-----	-----	-----	A

TX / Bluetooth 5.0 (GFSK) mode / CH Middle				Measurement Distance at 3m				Vertical polarity	
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 1492.22	59.08	26.57	3.17	44.73	0.46	44.54	74.00	-29.46	P
* 1492.22	47.35	26.57	3.17	44.73	0.46	32.81	54.00	-21.19	A
1723.52	56.11	28.39	3.39	44.43	0.69	44.15	74.00	-29.85	P
1723.52	48.66	28.39	3.39	44.43	0.69	36.71	54.00	-17.29	A
* 4883.02	56.89	33.33	5.51	42.60	0.23	53.36	74.00	-20.64	P
* 4883.02	45.67	33.33	5.51	42.60	0.23	42.14	54.00	-11.86	A
N/A	-----	-----	-----	-----	-----	-----	-----	-----	P
N/A	-----	-----	-----	-----	-----	-----	-----	-----	A

REMARK:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: 2.4GHz~2.5GHz Filter Insertion Loss
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 20dB below the limit
5. The test limit distance is 3M limit.
6. *=Restricted bands of operation

Product Name	Stand-Alone Media Player	Test Date	2021/06/02
Model	MIXSTREAM	Test By	Ted Huang
Test Mode	Bluetooth 5.0 TX (CH High)	TEMP& Humidity	31.9℃, 51%

TX / Bluetooth 5.0 (GFSK) mode / CH High				Measurement Distance at 3m				Horizontal polarity	
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 1338.04	58.15	25.92	2.98	44.78	0.44	42.71	74.00	-31.29	P
* 1338.04	47.89	25.92	2.98	44.78	0.44	32.45	54.00	-21.55	A
* 1493.11	58.81	26.57	3.17	44.73	0.46	44.28	74.00	-29.72	P
* 1493.11	47.55	26.57	3.17	44.73	0.46	33.02	54.00	-20.98	A
* 4959.59	57.63	33.57	5.57	42.59	0.24	54.41	74.00	-19.59	P
* 4959.59	45.86	33.57	5.57	42.59	0.24	42.64	54.00	-11.36	A
N/A	-----	-----	-----	-----	-----	-----	-----	-----	P
N/A	-----	-----	-----	-----	-----	-----	-----	-----	A

TX / Bluetooth 5.0 (GFSK) mode / CH High				Measurement Distance at 3m				Vertical polarity	
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 1489.74	59.52	26.56	3.17	44.73	0.46	44.97	74.00	-29.03	P
* 1489.74	47.23	26.56	3.17	44.73	0.46	32.68	54.00	-21.32	A
1723.50	56.16	28.39	3.39	44.43	0.69	44.20	74.00	-29.80	P
1723.50	49.05	28.39	3.39	44.43	0.69	37.09	54.00	-16.91	A
* 4959.51	56.82	33.57	5.57	42.59	0.24	53.60	74.00	-20.40	P
* 4959.51	46.31	33.57	5.57	42.59	0.24	43.09	54.00	-10.91	A
N/A	-----	-----	-----	-----	-----	-----	-----	-----	P
N/A	-----	-----	-----	-----	-----	-----	-----	-----	A

REMARK:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: 2.4GHz~2.5GHz Filter Insertion Loss
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
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