

RF Test Report

Report Number: 208745-5 **Revision Level:** 1

Client: Trackonomy Systems, Inc.

214 Devcon Dr. San Jose, CA 95112

Equipment Under Test: Multi-Functional IoT Platform Sensor Gateway

Model: GBP-3001

FCC ID: 2AXA8-GBP-3001

Applicable Standards: FCC Part 15 Subpart C, § 15.407

ANSI C63.10:2013

Report issued on: June 25, 2024

Test Result: Compliant



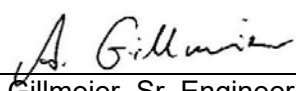
FOR THE SCOPE OF ACCREDITATION UNDER CERTIFICATE NUMBER: 1935.01

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1 Summary of Test Results

Test Description	Test Specification	Test Result
Peak Output Power	15.407(a)(1)(iv), (a)(3)	Compliant
Radiated Spurious Emissions	15.205(a) 15.407(b)(1), (4)(i)	Compliant

Note: Device used a pre-certified module; but different antenna. Output power spot check verified and reported in this report. The Radiated Spurious Emissions also preformed to ensure product still in compliance.

1.1 Modifications Required for Compliance

None

2 General Information

2.1 Client Information

Company Name: Trackonomy Systems, Inc.
Address: 214 Devcon Dr.
City, State, Zip, Country: San Jose, CA 95132

2.2 Test Laboratory

Name: SGS North America, Inc.
Address: 12310 World Trade Drive, Suite 106/107
City, State, Zip, Country: San Diego, CA 92128
Accrediting Body: A2LA
Type of lab: Testing Laboratory
Certificate Number: 1935.01
Designation ID: US1346
CAB ID: US0236

2.3 General Information of EUT

Equipment Under Test: Multi-Functional IoT Platform Sensor Gateway
Model: GBP-3001
Serial Numbers: 20144 (Radiated/Conducted Sample x 1)

FCC ID: 2AXA8-GBP-3001
Frequency Range: 5150-5250 MHz (U-NII-1)
5725-5835 MHz (U-NII-3)
Antenna Manufacturer: 2j-antennas
Antenna Model: 2J6C86BCFc
Antenna Type: Radome - Screw Mount
Antenna Gain*: 6.4 dBi (Peak max.)
Rated Voltage: 12.0Vdc

Test Voltage: 12.0Vdc (via external power source for Radiated Measurements)

Sample Received Date: April 01, 2024
Dates of testing: April 22 to June 25, 2024

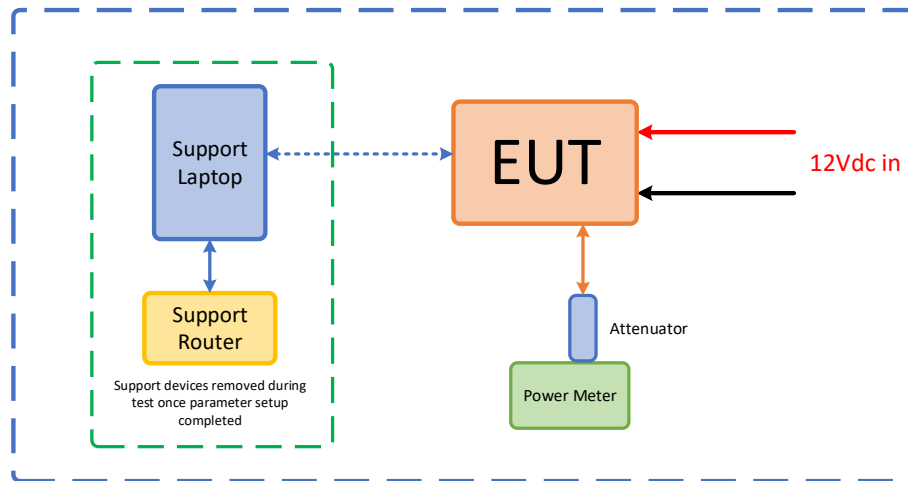
*Data was not measured by SGS laboratory and therefore SGS is not responsible for accuracy. Data obtained via customer, specification sheet, previous filing or other.

2.4 Operating Modes and Conditions

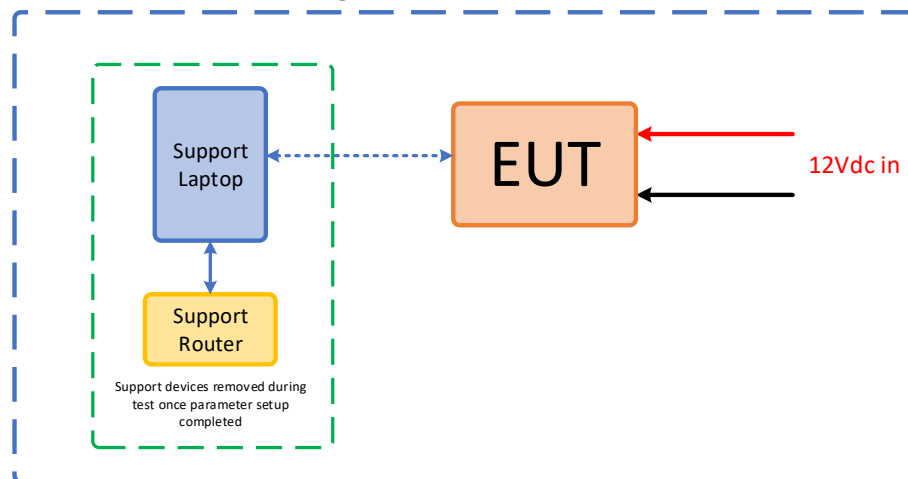
The EUT was running test mode via a support laptop which allowed the following:

- 1) Selecting low, middle and high wifi channels;
- 2) Selecting the modulation scheme as used in normal operation and with >98% duty cycle;
- 3) Setting the power level.

2.5 EUT Connection Block Diagram – Conducted Measurements



2.6 EUT Connection Block Diagram – Radiated Measurements

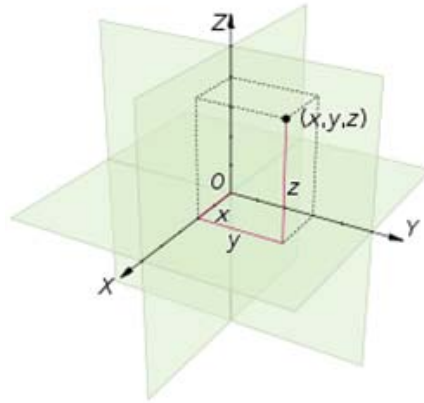


2.7 System Configurations

Manufacturer	Description	Model Number
Dell	Supported laptop to set parameter on the EUT	P117F
tp-link	Supported WiFi router connected with laptop to setup EUT parameter	Archer A8

2.8 Worst-case Configuration

Based on the physical of the EUT usage and installation, EUT was evaluated X only orientation. For radiated measurements verification performed using "X" configuration.



3 Transmitter Conducted Output Power

3.1 Test Method

Fundamental maximum average conducted output power measurement were performed using the method described in ANSI C63.10 clause 12.3.3.

The conducted power measurement was made in accordance to FCC Part 15 Subpart E §15.407(a)(1)(iv) and §15.407(a)(3)

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

The maximum Effective Isotropic Radiated Power (EIRP) is calculated by adding the declared maximum antenna gain (dBi)

$$\text{EIRP} = \text{Conducted Power(dBm)} + \text{Antenna Gain(dBi)}$$

The maximum Effective Radiated Power (ERP) is calculated from the maximum Effective Isotropic Radiated Power (EIRP) by subtracting 2.15dB

$$\text{ERP} = \text{EIRP} - 2.15\text{dB}$$

3.2 Test Limit

Technology	Limit (dBm)
U-NII-1	23.6
U-NII-3	29.6

3.3 Test date and test engineer(s)

June 18, 2024

3.4 Test Site

SGS EMC Laboratory, San Diego, CA

Environmental Conditions

Temperature: 17 °C

Relative Humidity: 64 %

Atmospheric Pressure: 101.7 kPa

3.5 Additional Observation

Per customer's declaration no changes had been made of the WiFi power setting. The Conducted Power is referenced from the original module reports. All modes of operation were verified and the worst-case configuration results are in this section of the report

3.6 Test Equipment

Asset	Manufacturer	Equipment	Model	Serial No.	Cal Date	Cal Due Date
2013	Keysight	Single Channel PK Power Meter	N1911A	MY62310007	01/29/2024	01/29/2025
2015	Keysight	Wideband Power Sensor	N1921A	MY62220017	01/29/2024	01/29/2025
2018	Shenzhen Sky Toppower Tech.	DC Power Supply	STP3020	N/A	N.C.R.	
-	Weinschel	20dB attenuator	3M-20	116459	Verified	
-	ENS Microwave, LLC	RF cable	S190-320-MNS-MNS	-	Verified	

3.7 Test results

Technology	Config	Data Rate	Frequency (MHz)	Power Setting	Ave Power (dBm)	Antenna (dBi)	EIRP (dBm)	Limit (dBm)
U-NII-1	802.11a	6	5180	7	9.76	6.4	16.16	23.6
			5220	10	12.9		19.3	
			5240	11	13.73		20.13	
	802.11n HT20	MCS0	5180	6	8.61		15.01	
			5220	10	12.90		19.3	
			5240	11	13.73		20.13	
	802.11n HT40	MCS0	5190	7	10.08		16.48	
			5230	16	16.50		22.9	
	802.11ac VHT80	MCS0	5210	6	6.82		13.22	

Technology	Config	Data Rate	Frequency (MHz)	Power Setting	Ave Power (dBm)	Antenna (dBi)	EIRP (dBm)	Limit (dBm)
U-NII-3	802.11a	6	5745	8	10.12	6.4	16.52	29.6
			5785	10	11.05		17.45	
			5825	12	12.73		19.13	
	802.11n HT20	MCS0	5745	8	9.90		16.3	
			5785	10	10.87		17.27	
			5825	13	13.20		19.6	
	802.11n HT40	MCS0	5755	10	11.64		18.04	
			5795	16	15.77		22.17	
	802.11ac VHT80	MCS0	5775	12	12.72		19.12	

4 Radiated Spurious Emissions

4.1 Test Result

Test Description	Test Specification	Test Result
Radiated Spurious Emissions	15.205(a) 15.407(b)(1), (4)(i)	Compliant

4.2 Test Method

Undesirable emission limits.

- Except as shown in paragraph (b)(1) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:
 - For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- For transmitters operating solely in the 5.725-5.850 GHz band:
 - All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- Radiated Emissions in restricted frequency bands were used and defined in ANSI C63.10 clause 11.11 and 11.12 as worst-case limits.

Limits within bands of operation:

Frequency	Limits ⁽¹⁾		Peak Limits dBuV/m
	Microvolts/m	dBuV/m	
30 - 88 MHz	100	40 ⁽²⁾	--
88 - 216 MHz	150	43.5 ⁽²⁾	--
216 - 960 MHz	200	46 ⁽²⁾	--
960 - 1000 MHz	500	54 ⁽²⁾	--
1 - 40 GHz	500	54 ⁽³⁾	74

(1) These limits are applicable to emissions outside of the intentional transmit frequency band.

(2) Quasi-peak limit

(3) Average limit

4.3 Test Date and Test Engineer(s)

April 22 to June 25, 2024 / AC and AG

4.4 Test Site

SGS EMC Laboratory, San Diego, CA

Environmental Conditions

Temperature: 17 °C

Relative Humidity: 64 %

Atmospheric Pressure: 101.7 kPa

4.5 Additional Observation

- Test was performed from 9kHz to 40GHz with EUT to measurement antenna distance was 3 meters.
- The low frequency band started from 9kHz to 30MHz was pre-scanned and the results was 20dB lower than the limit per 15.31(o); therefore, no data was presented in this test report.
- The high frequency band beyond 18GHz was pre-scanned and the results was 20dB lower than the limit; therefore, no data was presented in this test report.

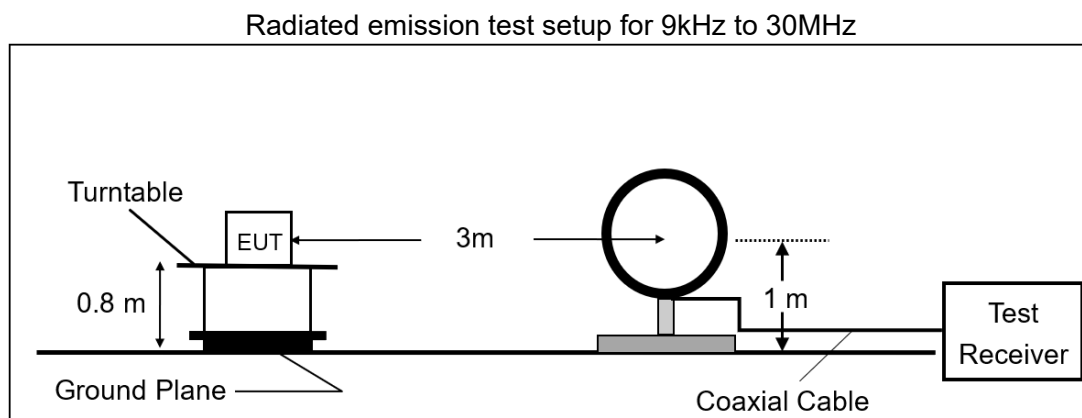
4.6 Test Equipment

Asset	Manufacturer	Equipment	Model	Serial No.	Cal Date	Cal Due Date
2034	ETS Lindgren	Biconilog Antenna 26M-6000MHz	3142E	00243882	06/29/2023	06/29/2025
2029	ETS Lindgren	Loop Antenna, H-Field	6512	00249642	08/31/2022	08/31/2024
2032	ETS Lindgren	DRG Horn Antenna 10G-40GHz	3116C	00251668	06/16/2022	07/16/2024*
-	Micro-Tronics	6GHz High pass filter	HPM16182	G015	Verified	
-	ENS Microwave, LLC	RF cable	S190-320-MNS-MNS	-	Verified	
2017	Keysight	EMI Receiver	N9038B	MY59050132	10/24/2023	10/24/2024
2026	RF-Lambda	RF Microwave Systems Amplifier	RAMP00M45GA	00089204010	06/01/2023	07/01/2024*
2033	ETS Lindgren	DRG Horn Antenna 1G-18GHz	3117	00251986	07/27/2022	07/27/2024
2018	Shenzhen Sky Toppower Tech.	DC Power Supply	STP3020	N/A	N.C.R.	
-	ETS Lindgren	Test Software	TILE!	V.7.8.1.7	N/A	

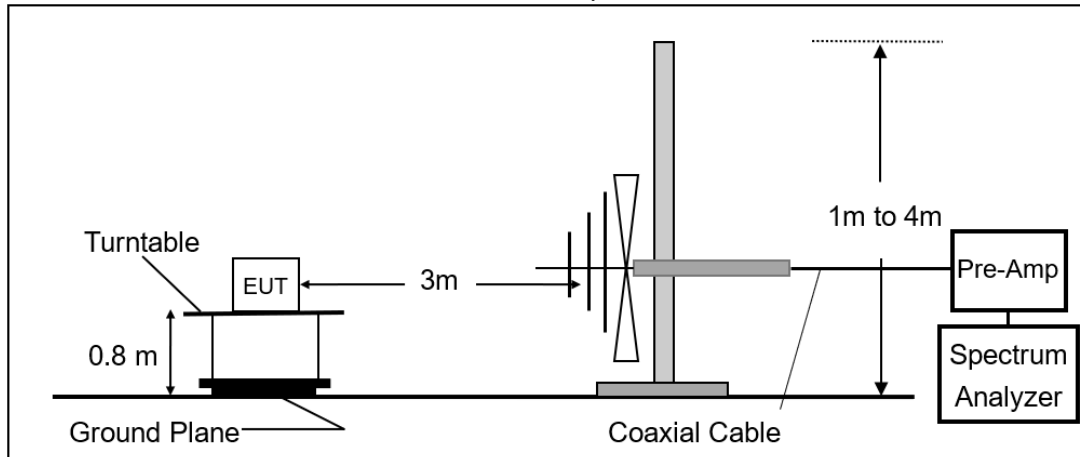
* Note: calibration extended 1 month and equipment verified prior to performed test.

4.7 Test Setup

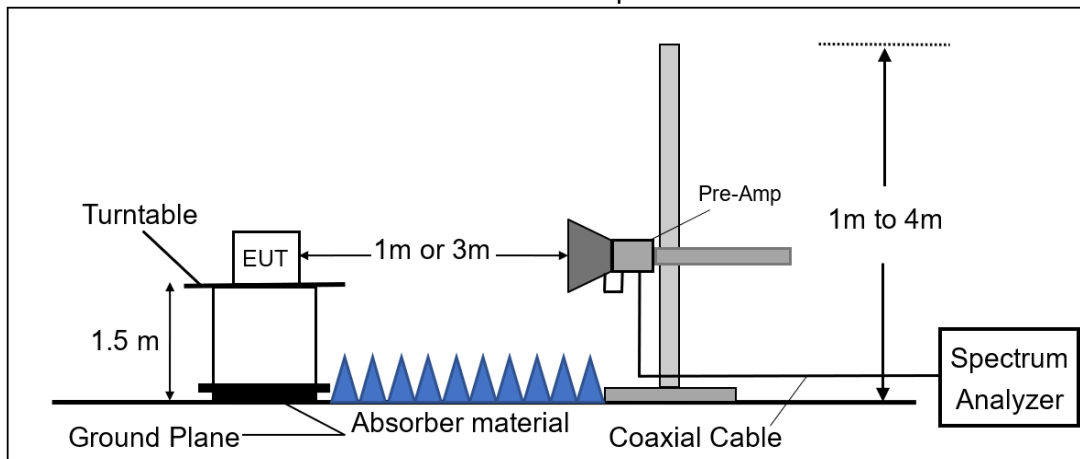
Refer to Section 2.6 in this test report of EUT setup.



Radiated emission test setup for 30MHz to 1GHz



Radiated emission test setup for above 1GHz



4.8 Field Strength Calculation

The total correction factor is calculated by adding the Antenna Factor, Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any).

The basic equation with a sample calculation as follows:

$$TC = AF + CL - AG$$

Where TC = Total Correction CL = Cable Loss
 AG = Amplifier Gain
 AF = Antenna Factor

The Final reading had been calculated internally by the test software by adding the Measurement Reading from the receiver and Total Correction factor.

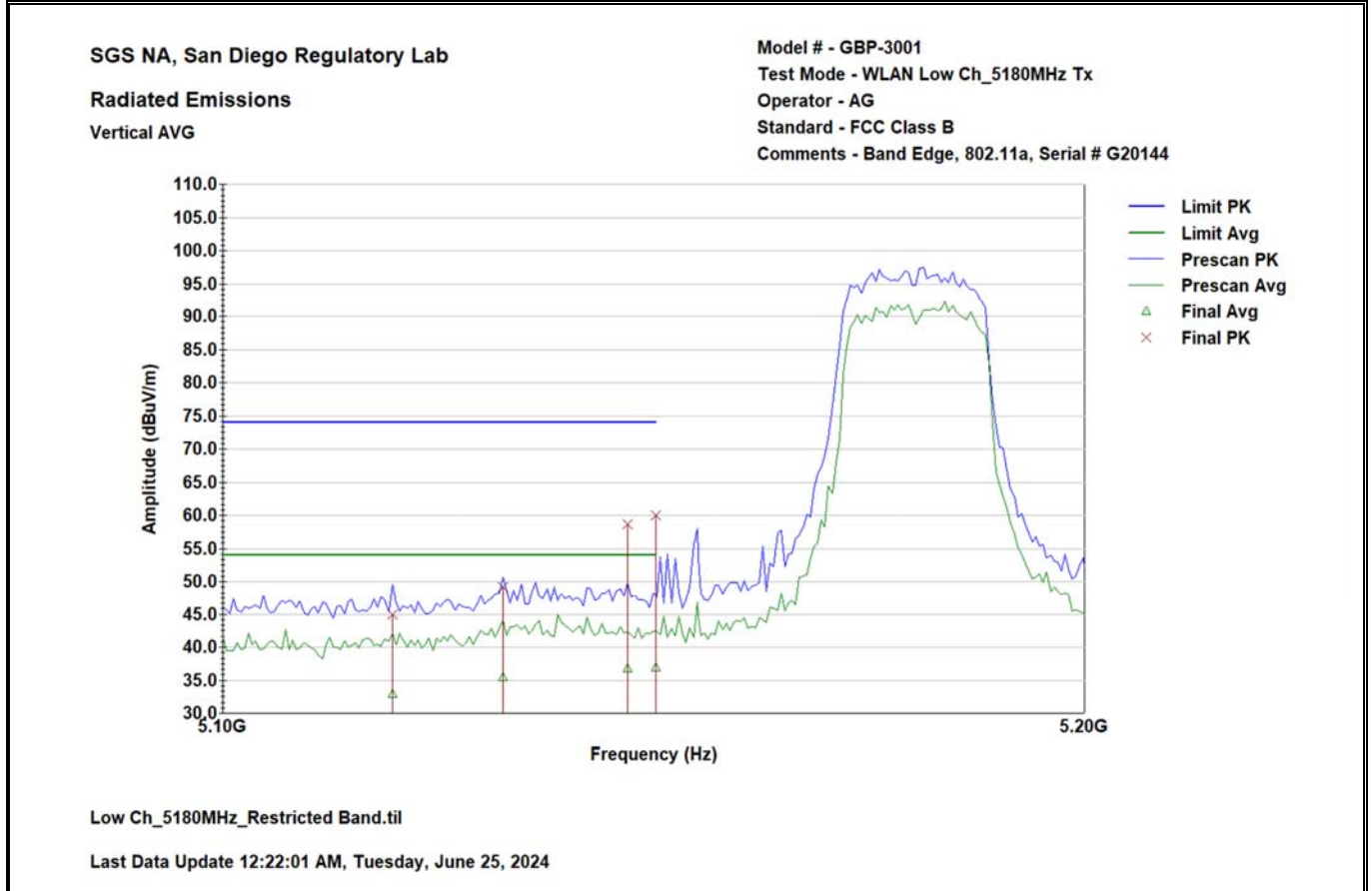
The basic equation with a sample calculation as follows:

$$Final = MR + TC$$

Where TC = Total Correction MR = Measurement Reading

4.9 Test Data – Radiated Band Edge

U-NII-1 802.11a Low Channel 5180MHz Band Edge – Vertical polarity



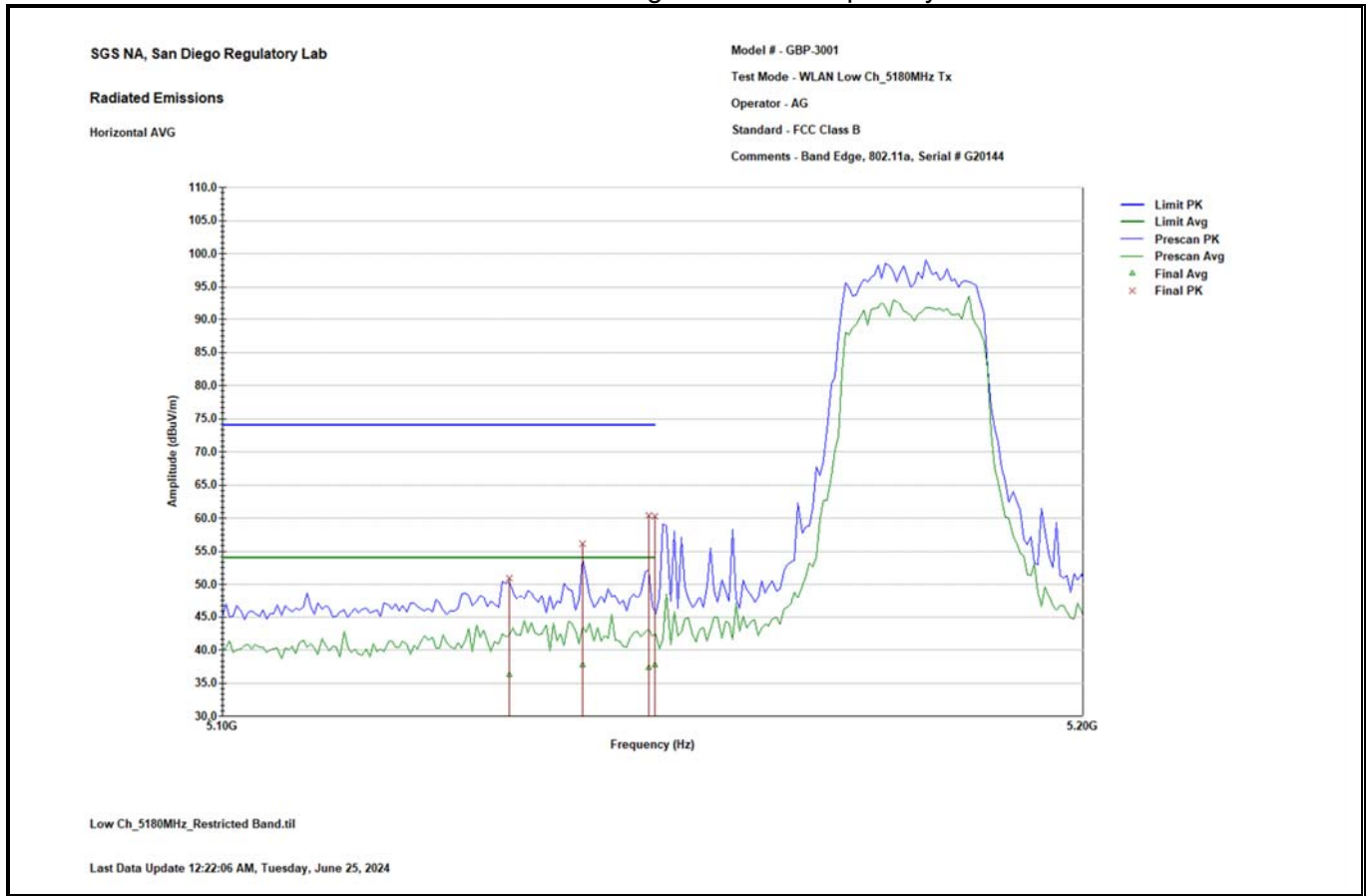
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5119.525	44.87	6.98	-29.13	74	163	215
5132.275	49.13	7.08	-24.87	74	356	156
5146.725	58.69	7.19	-15.31	74	171	132
5150	59.98	7.21	-14.02	74	232	98

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5119.525	32.92	6.98	-21.08	54	163	215
5132.275	35.5	7.08	-18.5	54	356	156
5146.725	36.81	7.19	-17.19	54	171	132
5150	36.96	7.21	-17.04	54	232	98

U-NII-1 802.11a Low Channel 5180MHz Band Edge – Horizontal polarity



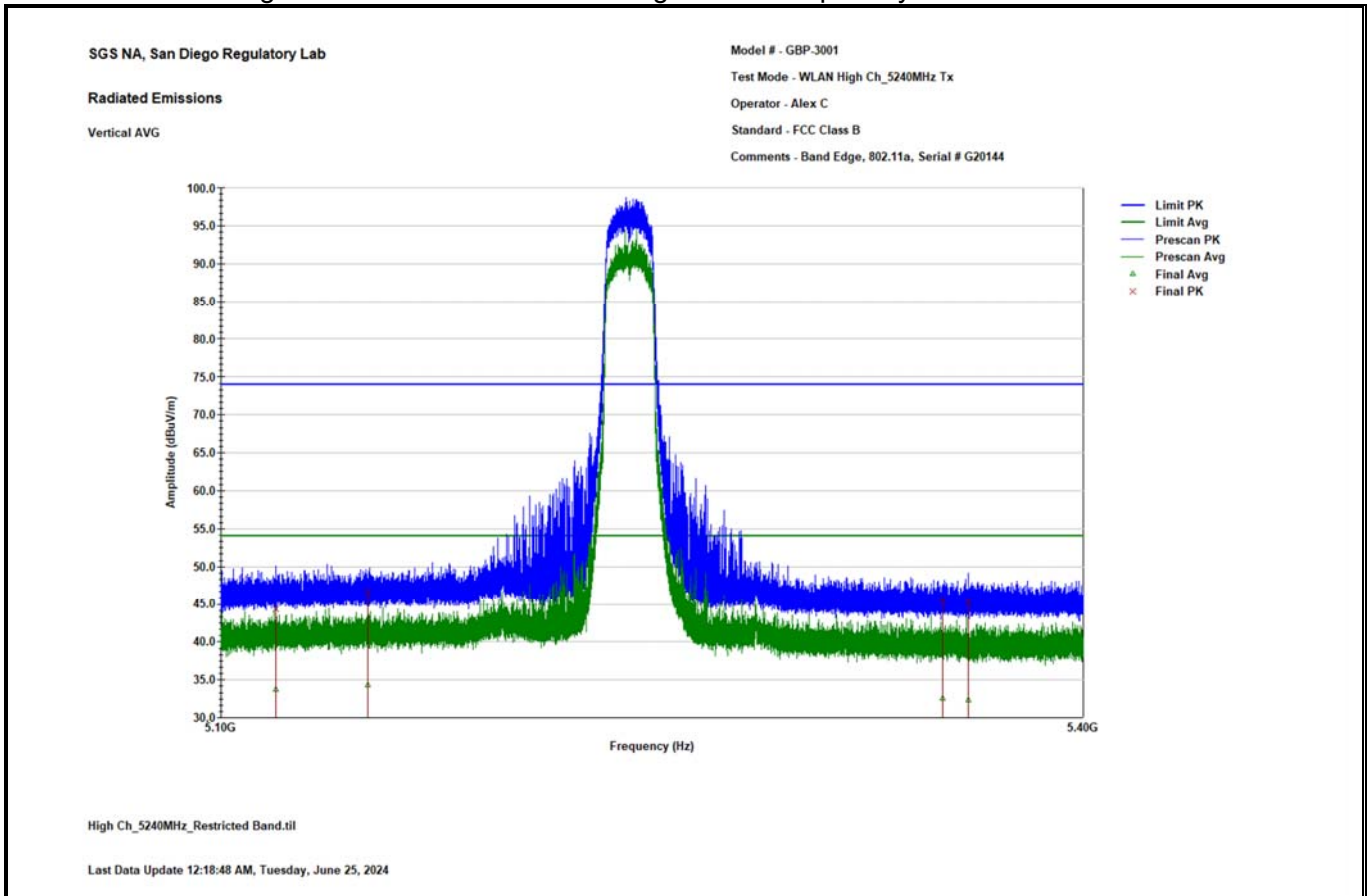
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5133.125	50.89	7.08	-23.11	74	193	197
5141.625	56.13	7.15	-17.87	74	150	203
5149.275	60.36	7.2	-13.64	74	186	214
5150	60.25	7.21	-13.75	74	225	211

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5133.125	36.23	7.08	-17.77	54	193	197
5141.625	37.68	7.15	-16.32	54	150	203
5149.275	37.36	7.2	-16.64	54	186	214
5150	37.72	7.21	-16.28	54	225	211

U-NII-1 802.11a High Channel 5240MHz Band Edge – Vertical polarity



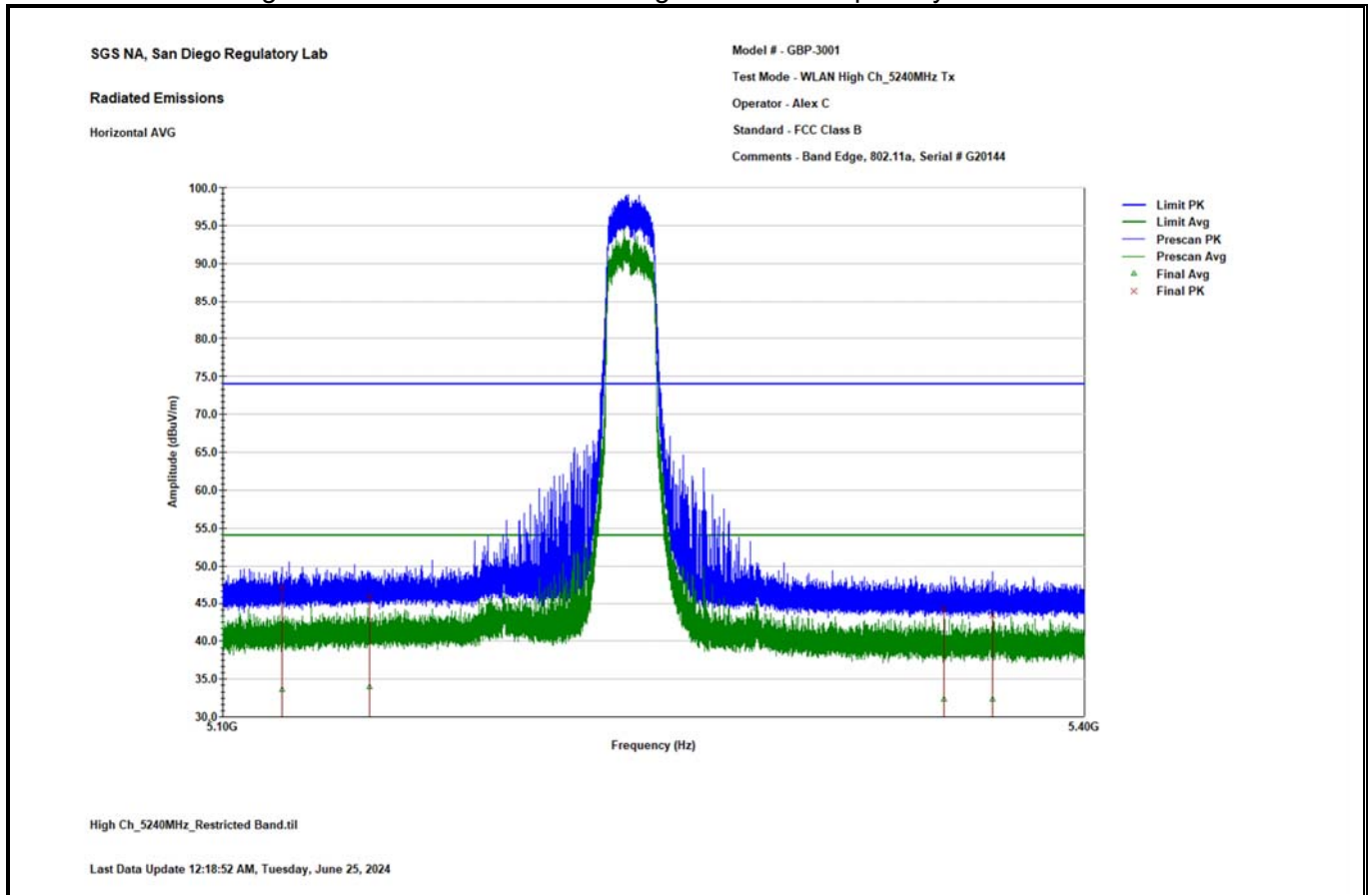
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5118.675	44.36	6.97	-29.64	74	380	16
5150	46.65	7.21	-27.35	74	342	-17
5350	45.58	7.62	-28.42	74	358	-3
5359.17	45.39	7.66	-28.61	74	257	95

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5118.675	33.76	6.97	-20.24	54	380	16
5150	34.32	7.21	-19.68	54	342	-17
5350	32.52	7.62	-21.48	54	358	-3
5359.17	32.37	7.66	-21.63	54	257	95

U-NII-1 802.11a High Channel 5240MHz Band Edge – Horizontal polarity



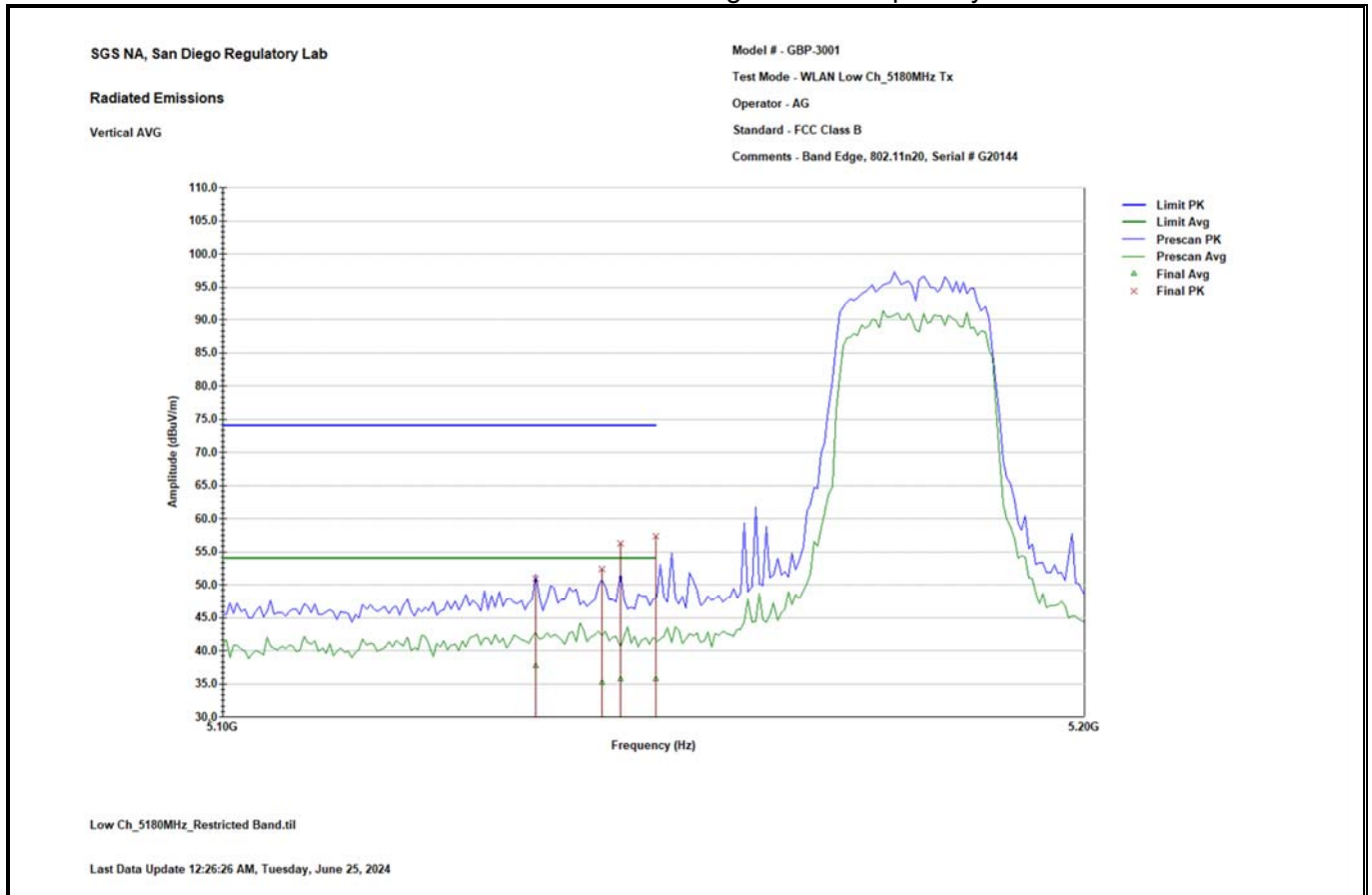
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5120.032	47.25	6.99	-26.75	74	316	98
5150	45.93	7.21	-28.07	74	171	145
5350	44.34	7.62	-29.66	74	187	5
5367.255	43.37	7.7	-30.63	74	264	-17

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5120.032	33.58	6.99	-20.42	54	316	98
5150	33.98	7.21	-20.02	54	171	145
5350	32.29	7.62	-21.71	54	187	5
5367.255	32.28	7.7	-21.72	54	264	-17

U-NII-1 802.11n HT20 Low Channel 5180MHz Band Edge – Vertical polarity



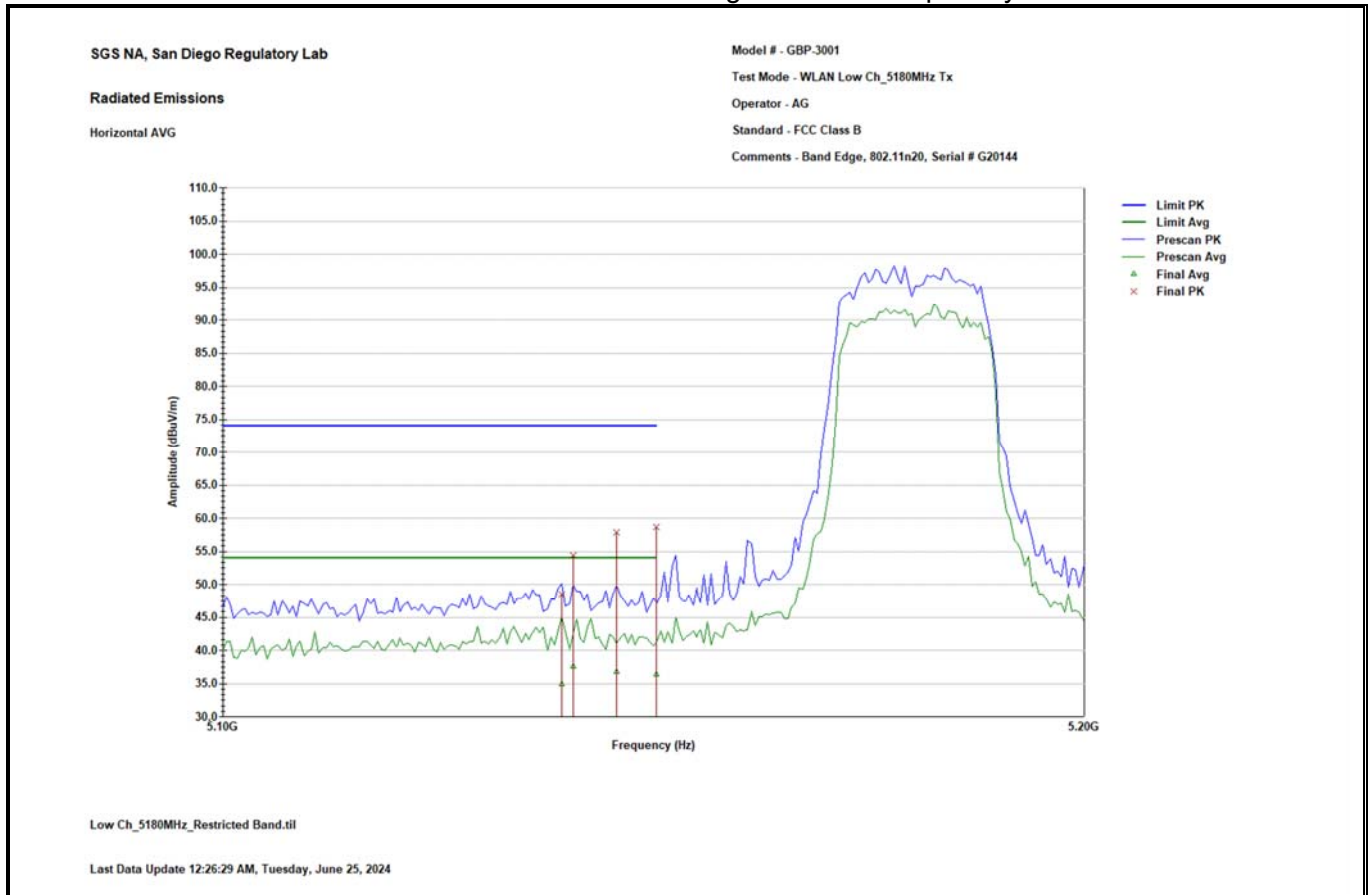
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5136.1	50.99	7.11	-23.01	74	179	125
5143.75	52.4	7.16	-21.6	74	150	192
5145.875	56.26	7.18	-17.74	74	150	138
5150	57.29	7.21	-16.71	74	171	128

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5136.1	37.79	7.11	-16.21	54	179	125
5143.75	35.13	7.16	-18.87	54	150	192
5145.875	35.73	7.18	-18.27	54	150	138
5150	35.78	7.21	-18.22	54	171	128

U-NII-1 802.11n HT20 Low Channel 5180MHz Band Edge – Horizontal polarity



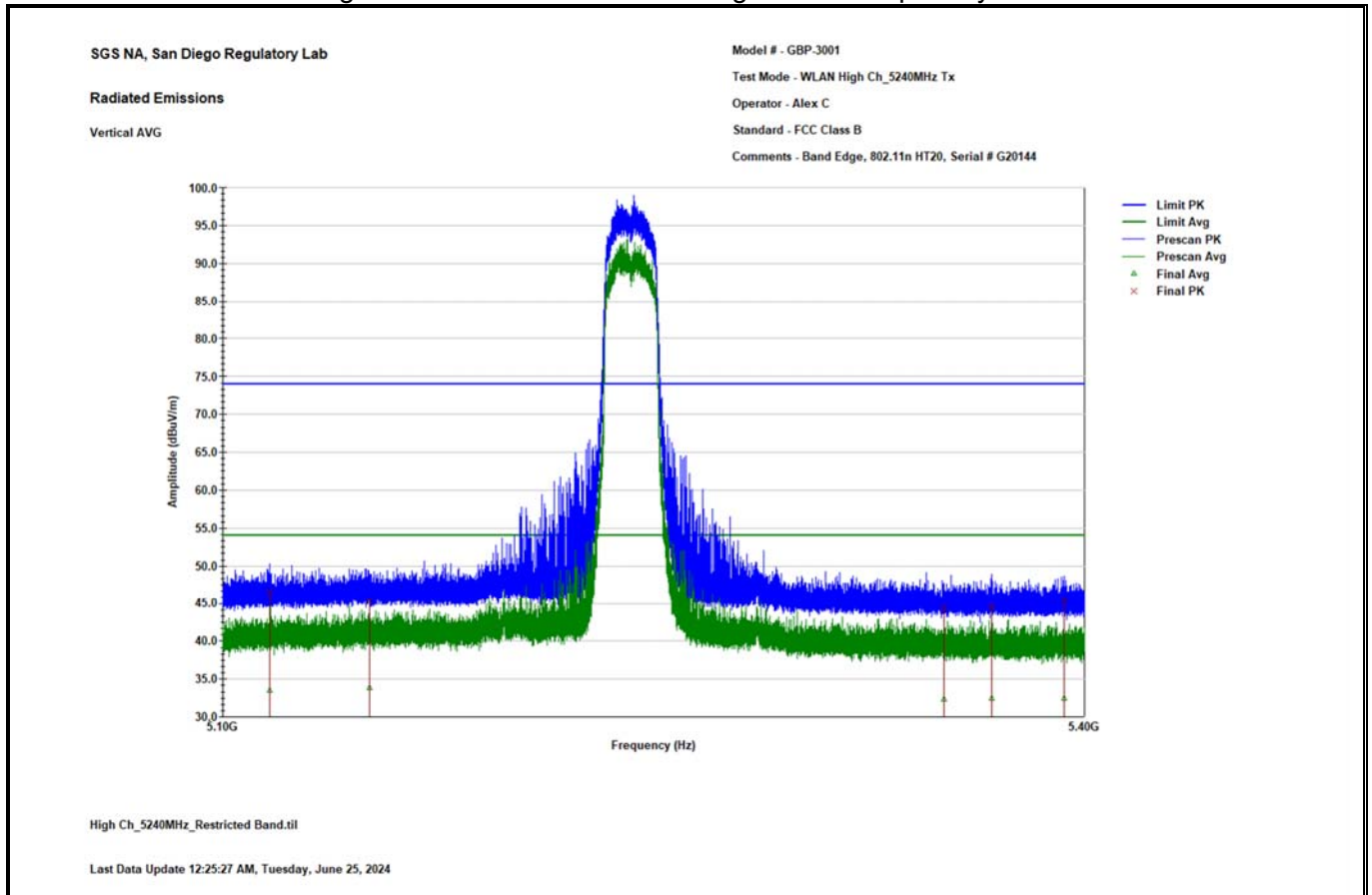
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5139.075	48.58	7.13	-25.42	74	270	156
5140.35	54.44	7.14	-19.56	74	163	201
5145.45	57.91	7.18	-16.09	74	301	207
5150	58.69	7.21	-15.31	74	247	200

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5139.075	34.97	7.13	-19.03	54	270	156
5140.35	37.66	7.14	-16.34	54	163	201
5145.45	36.82	7.18	-17.18	54	301	207
5150	36.35	7.21	-17.65	54	247	200

U-NII-1 802.11n HT20 High Channel 5240MHz Band Edge – Vertical polarity



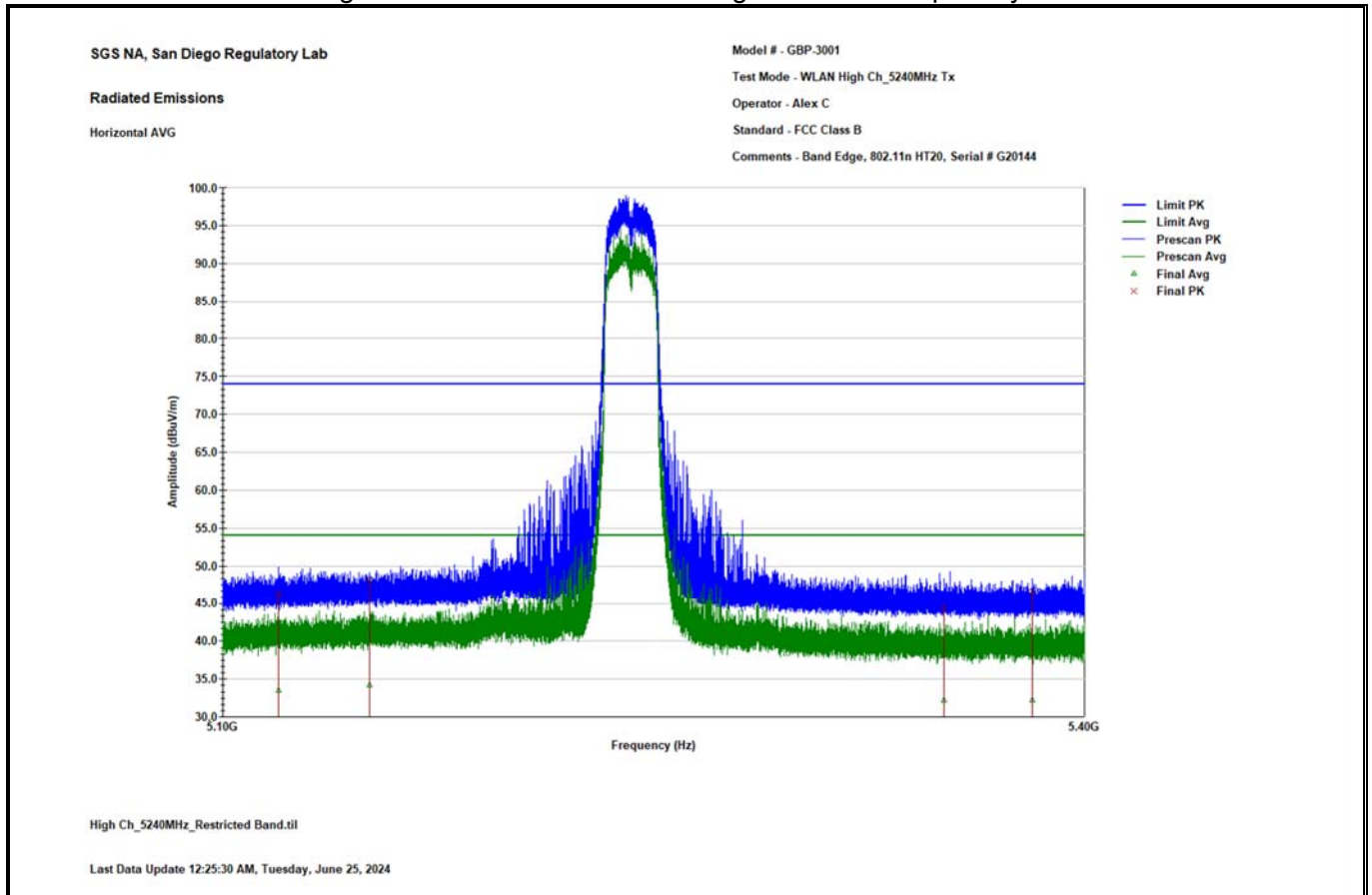
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5115.945	46.58	6.95	-27.42	74	364	83
5150	45.27	7.21	-28.73	74	264	-3
5350	44.46	7.62	-29.54	74	400	289
5367.03	44.58	7.69	-29.42	74	295	347
5392.65	45.49	7.79	-28.51	74	280	167

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5115.945	33.54	6.95	-20.46	54	364	83
5150	33.87	7.21	-20.13	54	264	-3
5350	32.32	7.62	-21.68	54	400	289
5367.03	32.41	7.69	-21.59	54	295	347
5392.65	32.47	7.79	-21.53	54	280	167

U-NII-1 802.11n HT20 High Channel 5240MHz Band Edge – Horizontal polarity



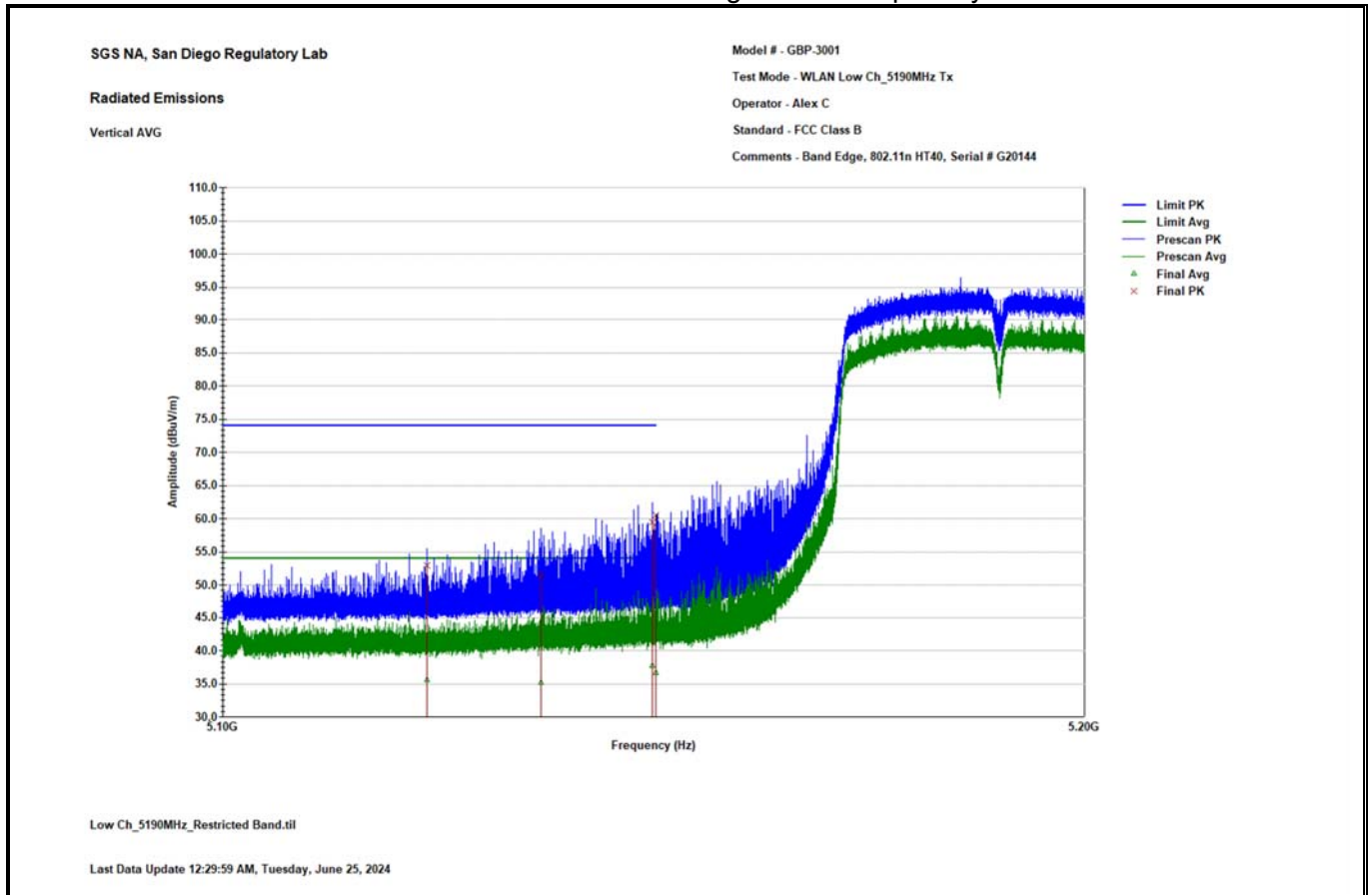
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5118.923	46.32	6.97	-27.68	74	179	153
5150	48.2	7.21	-25.8	74	239	198
5350	44.43	7.62	-29.57	74	186	259
5381.392	46.68	7.76	-27.32	74	302	-20

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5118.923	33.53	6.97	-20.47	54	179	153
5150	34.16	7.21	-19.84	54	239	198
5350	32.27	7.62	-21.73	54	186	259
5381.392	32.23	7.76	-21.77	54	302	-20

U-NII-1 802.11n HT40 Low Channel 5190MHz Band Edge – Vertical polarity



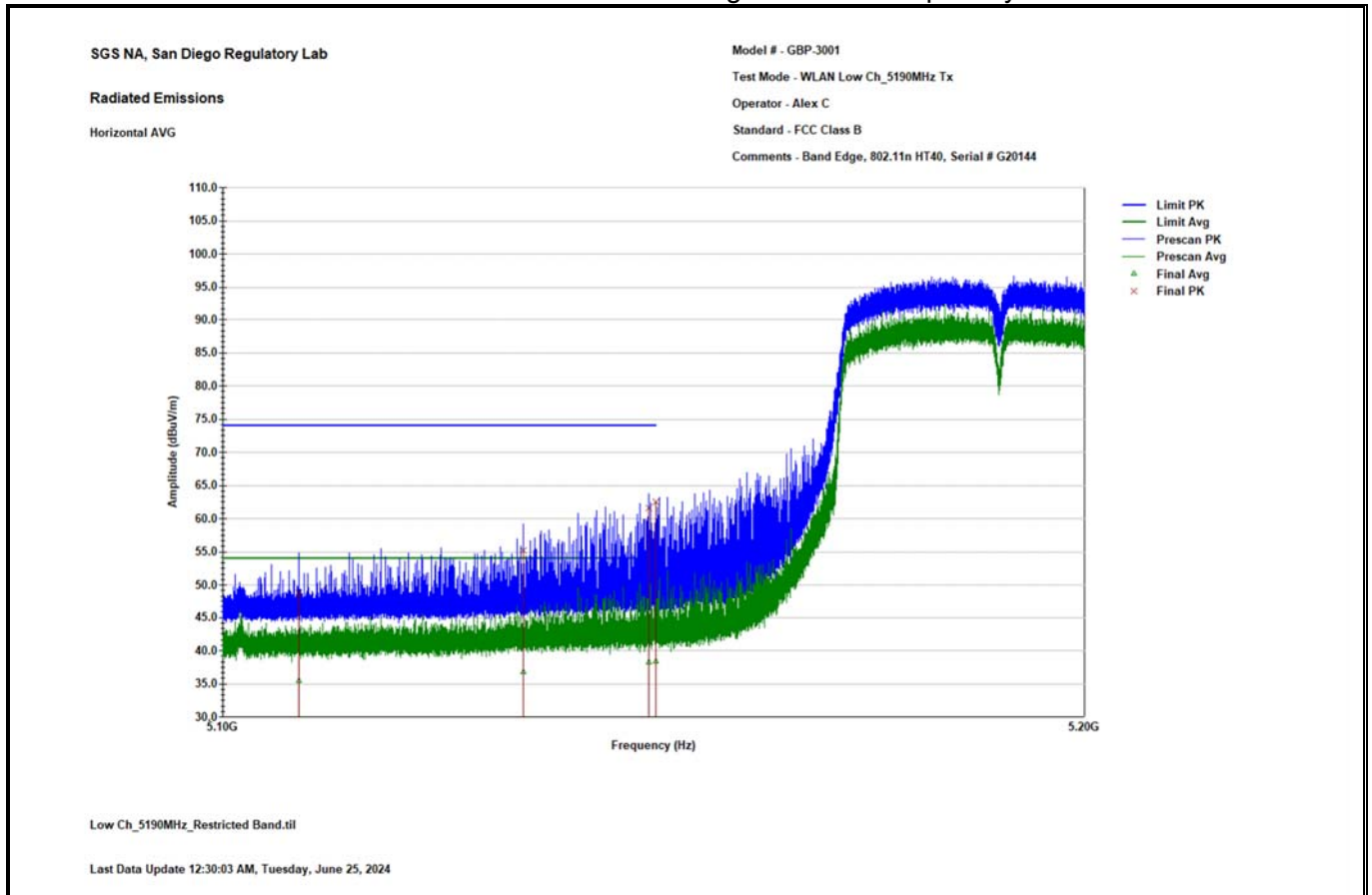
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5123.485	52.89	7.01	-21.11	74	150	136
5136.753	51.64	7.11	-22.36	74	318	-20
5149.652	59.46	7.21	-14.54	74	150	133
5150	60.59	7.21	-13.41	74	171	95

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5123.485	35.58	7.01	-18.42	54	150	136
5136.753	35.21	7.11	-18.79	54	318	-20
5149.652	37.77	7.21	-16.23	54	150	133
5150	36.67	7.21	-17.33	54	171	95

U-NII-1 802.11n HT40 Low Channel 5190MHz Band Edge – Horizontal polarity



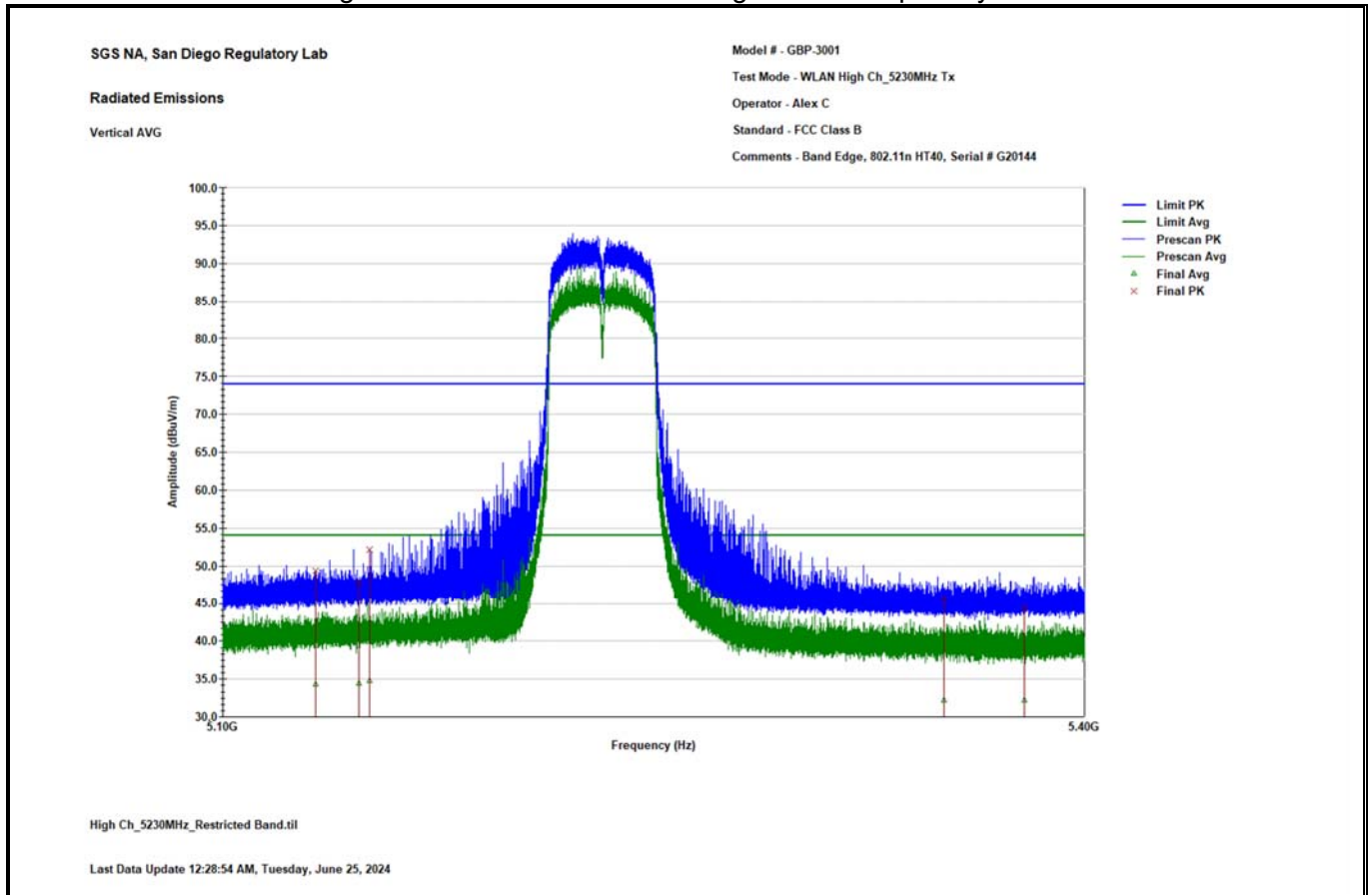
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5108.712	48.79	6.88	-25.21	74	150	197
5134.62	55.22	7.09	-18.78	74	171	211
5149.242	61.62	7.2	-12.38	74	155	210
5150	62.48	7.21	-11.52	74	309	215

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5108.712	35.48	6.88	-18.52	54	150	197
5134.62	36.76	7.09	-17.24	54	171	211
5149.242	38.29	7.2	-15.71	54	155	210
5150	38.37	7.21	-15.63	54	309	215

U-NII-1 802.11n HT40 High Channel 5230MHz Band Edge – Vertical polarity



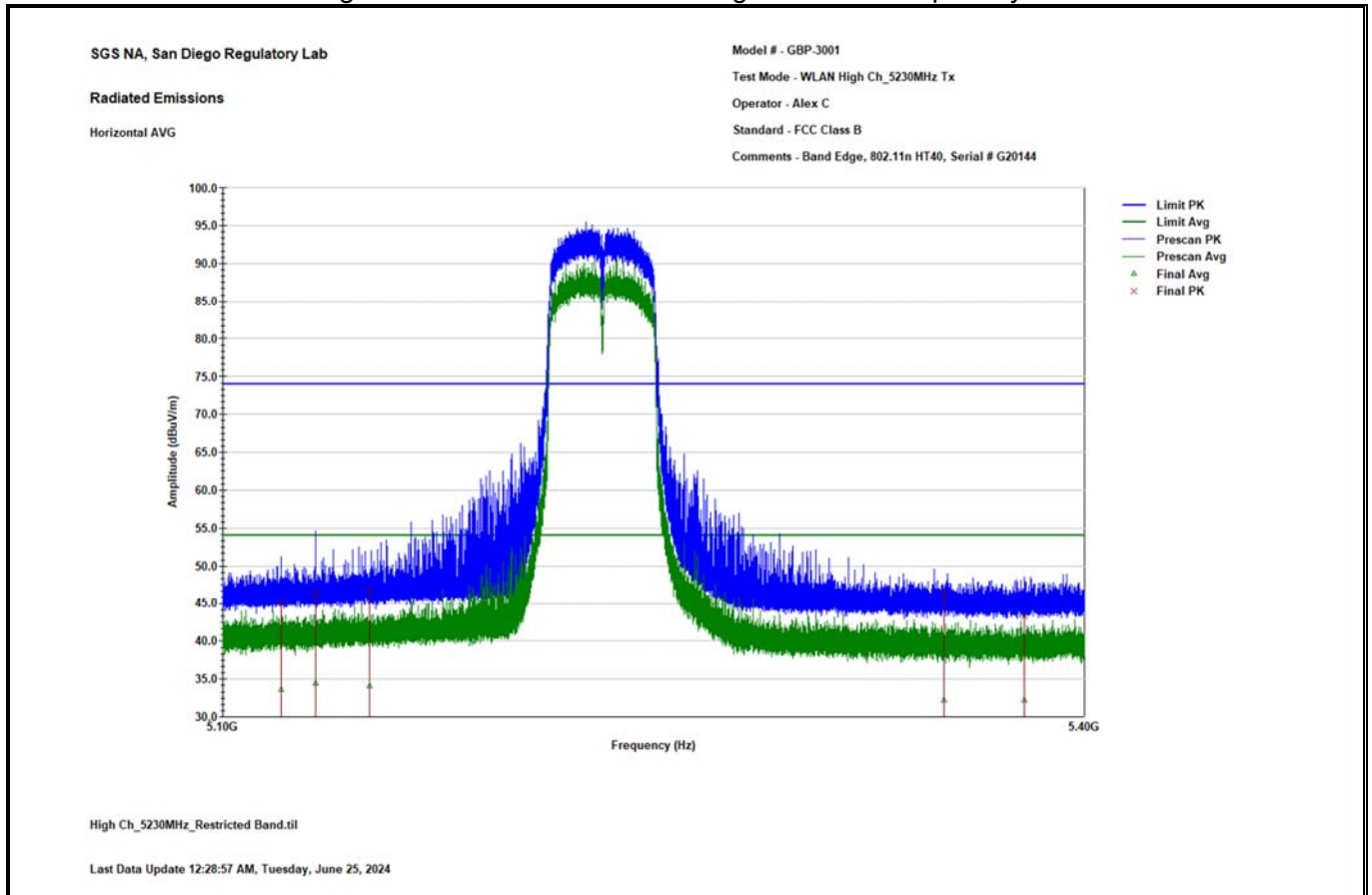
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5131.52	49.37	7.07	-24.63	74	163	143
5146.395	47.87	7.18	-26.13	74	264	155
5150	52.15	7.21	-21.85	74	202	132
5350	45.73	7.62	-28.27	74	201	16
5378.655	44.41	7.75	-29.59	74	249	303

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5131.52	34.31	7.07	-19.69	54	163	143
5146.395	34.42	7.18	-19.58	54	264	155
5150	34.82	7.21	-19.18	54	202	132
5350	32.16	7.62	-21.84	54	201	16
5378.655	32.24	7.75	-21.76	54	249	303

U-NII-1 802.11n HT40 High Channel 5230MHz Band Edge – Horizontal polarity



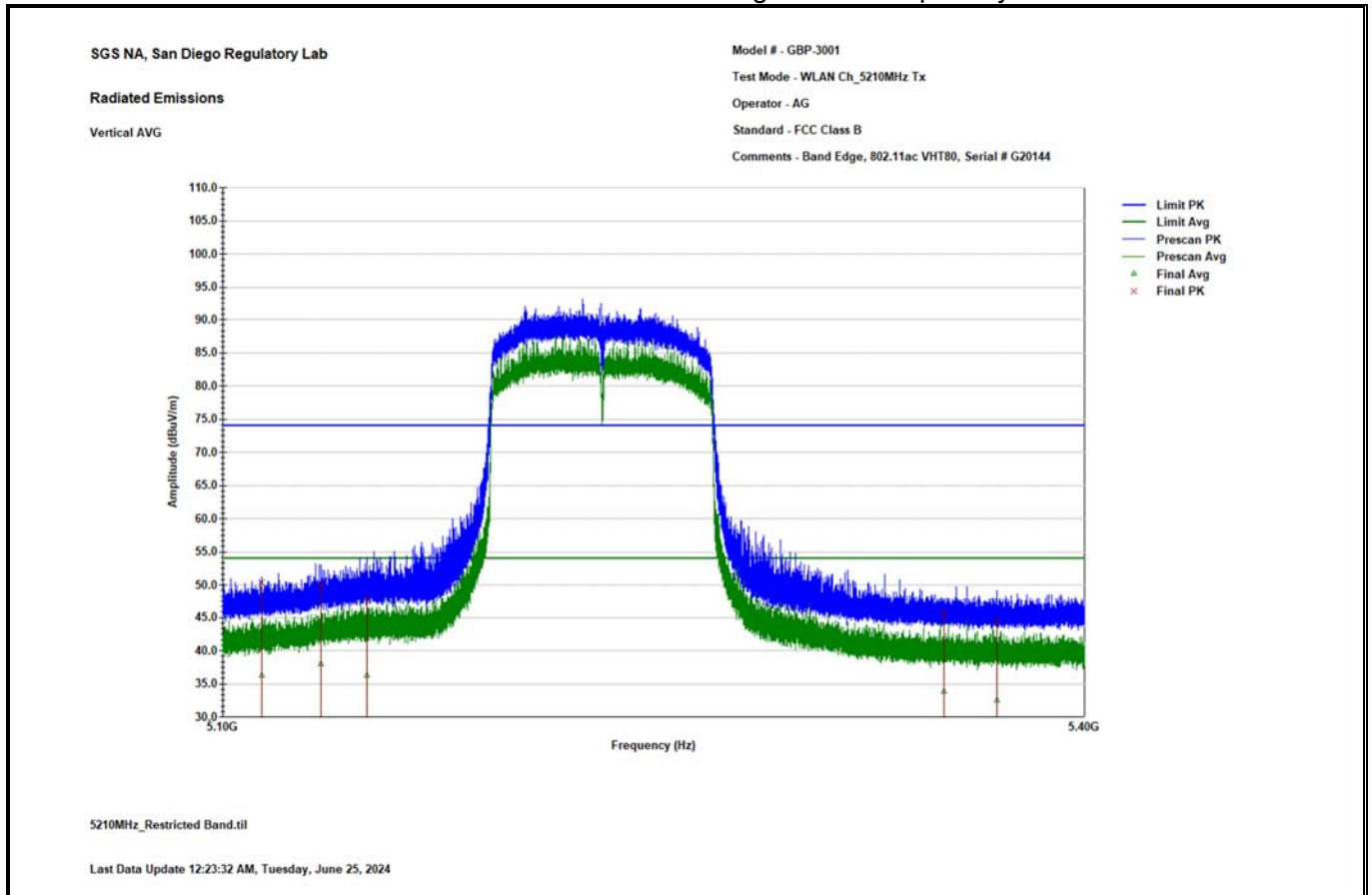
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5119.717	45.19	6.98	-28.81	74	209	149
5131.52	46.61	7.07	-27.39	74	240	201
5150	46.95	7.21	-27.05	74	348	380
5350	46.53	7.62	-27.47	74	302	44
5378.655	43.35	7.75	-30.65	74	255	31

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5119.717	33.56	6.98	-20.44	54	209	149
5131.52	34.38	7.07	-19.62	54	240	201
5150	34.09	7.21	-19.91	54	348	380
5350	32.21	7.62	-21.79	54	302	44
5378.655	32.18	7.75	-21.82	54	255	31

U-NII-1 802.11ac VHT80 Mid Channel 5210MHz Band Edge – Vertical polarity



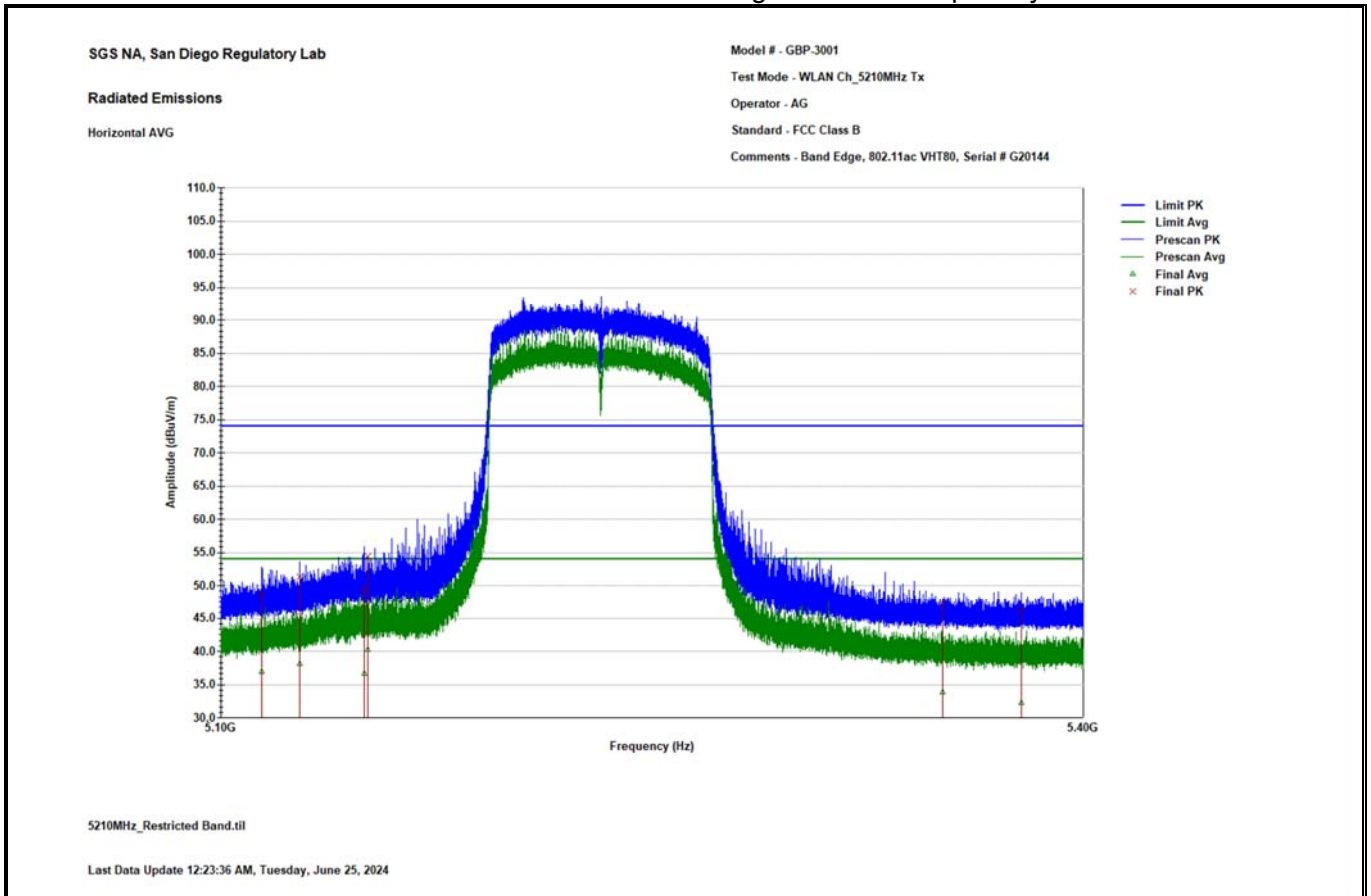
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5113.215	50.45	6.92	-23.55	74	150	140
5133.173	50.14	7.08	-23.86	74	163	133
5149.05	48.02	7.2	-25.98	74	400	-20
5350	45.71	7.62	-28.29	74	163	126
5368.845	44.47	7.7	-29.53	74	273	118

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5113.215	36.31	6.92	-17.69	54	150	140
5133.173	38.03	7.08	-15.97	54	163	133
5149.05	36.28	7.2	-17.72	54	400	-20
5350	33.92	7.62	-20.08	54	163	126
5368.845	32.53	7.7	-21.47	54	273	118

U-NII-1 802.11ac VHT80 Mid Channel 5210MHz Band Edge – Horizontal polarity



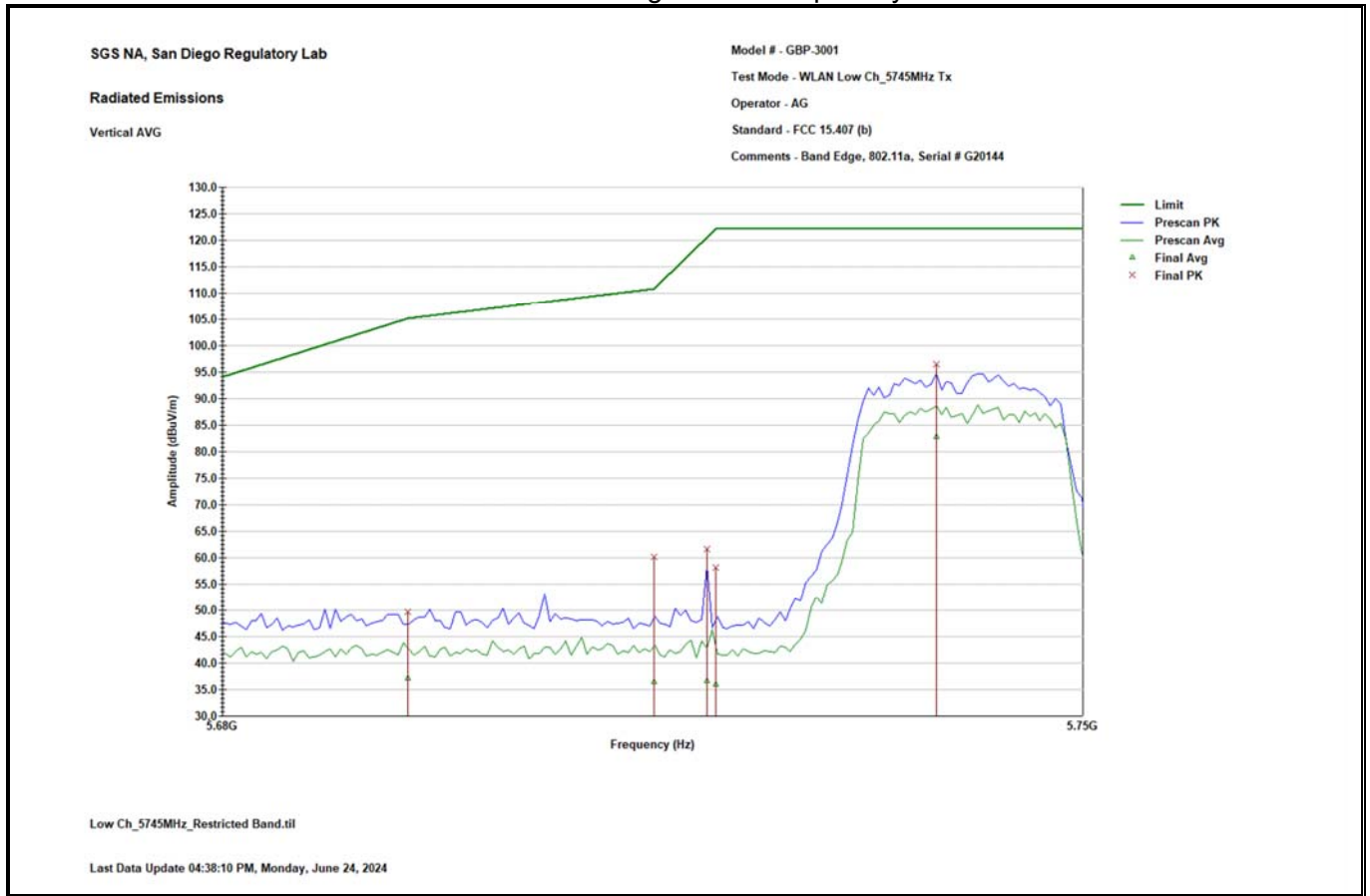
Peak Data

Freq. (MHz)	Final Pk (dBuV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBuV/m)	Ant. Height (cm)	Azimuth (deg.)
5113.67	48.78	6.92	-25.22	74	155	198
5126.573	51.34	7.03	-22.66	74	194	202
5148.78	49.43	7.2	-24.57	74	400	380
5150	54.39	7.21	-19.61	74	186	207
5350	47.34	7.62	-26.66	74	232	218
5378.04	46.31	7.74	-27.69	74	364	285

Average Data

Freq. (MHz)	Final Avg (dBuV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBuV/m)	Ant. Height (cm)	Azimuth (deg.)
5113.67	36.94	6.92	-17.06	54	155	198
5126.573	38.15	7.03	-15.85	54	194	202
5148.78	36.62	7.2	-17.38	54	400	380
5150	40.22	7.21	-13.78	54	186	207
5350	33.85	7.62	-20.15	54	232	218
5378.04	32.24	7.74	-21.76	54	364	285

U-NII-3 802.11a Low Channel 5745MHz Band Edge – Vertical polarity



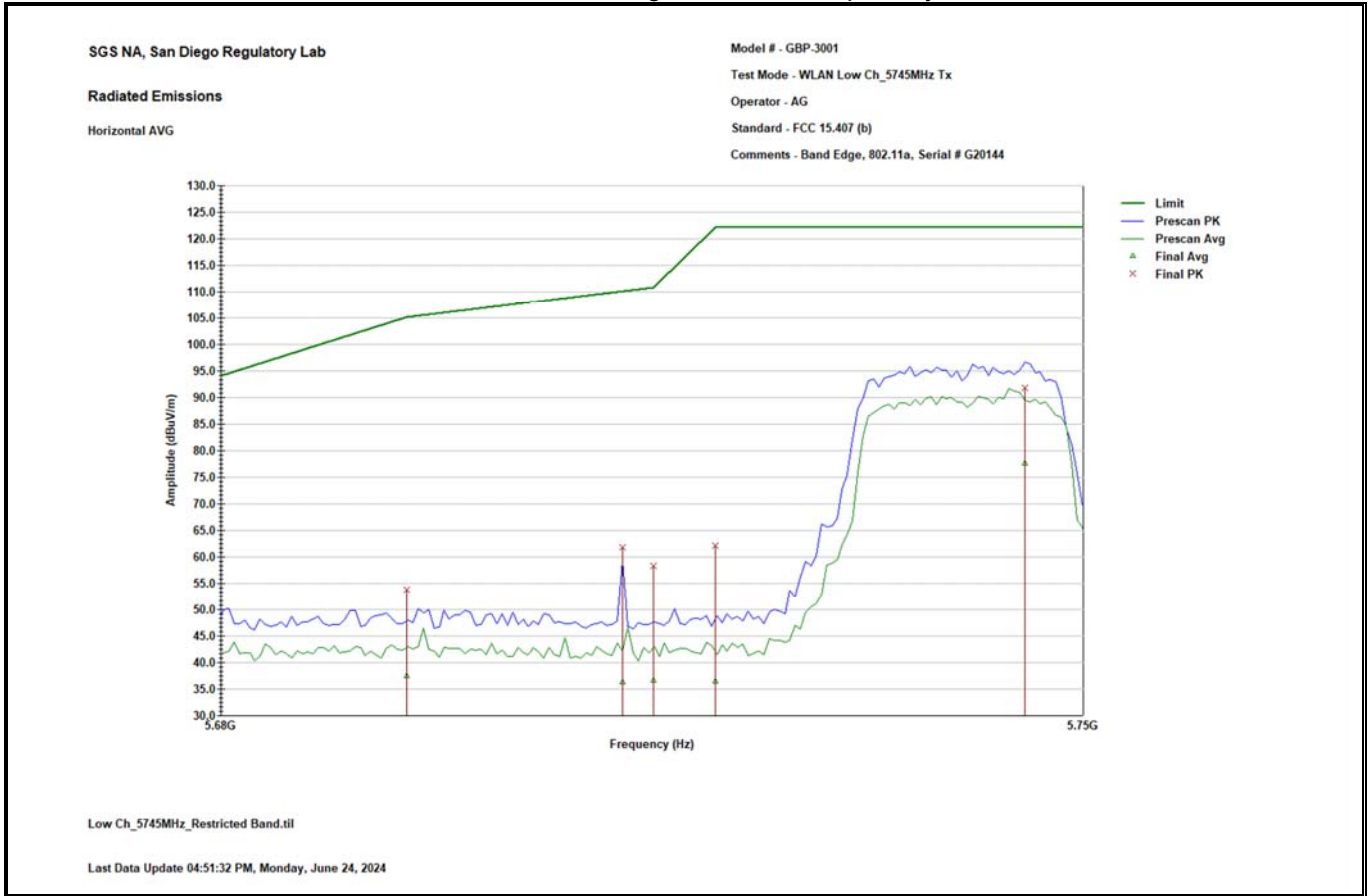
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5700	49.73	9.12	-55.47	105.2	156	123
5720	60.14	9.15	-50.66	110.8	150	117
5724.3	61.59	9.15	-59.01	120.6	163	117
5725	58.25	9.15	-63.95	122.2	171	110
5743	96.53	9.15	-25.67	122.2	156	125

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5700	37.1	9.12	-68.1	105.2	156	123
5720	36.5	9.15	-74.3	110.8	150	117
5724.3	36.69	9.15	-83.91	120.6	163	117
5725	36.05	9.15	-86.15	122.2	171	110
5743	82.8	9.15	-39.4	122.2	156	125

U-NII-3 802.11a Low Channel 5745MHz Band Edge – Horizontal polarity



Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5700	53.89	9.12	-51.31	105.2	150	157
5717.5	61.83	9.15	-48.27	110.1	178	153
5720	58.38	9.15	-52.42	110.8	155	161
5725	62.13	9.15	-60.07	122.2	247	156
5750.225	91.9	9.15	-30.3	122.2	385	-20

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5700	37.51	9.12	-67.69	105.2	150	157
5717.5	36.4	9.15	-73.7	110.1	178	153
5720	36.69	9.15	-74.11	110.8	155	161
5725	36.46	9.15	-85.74	122.2	247	156
5750.225	77.61	9.15	-44.59	122.2	385	-20

U-NII-3 802.11a High Channel 5825MHz Band Edge – Vertical polarity



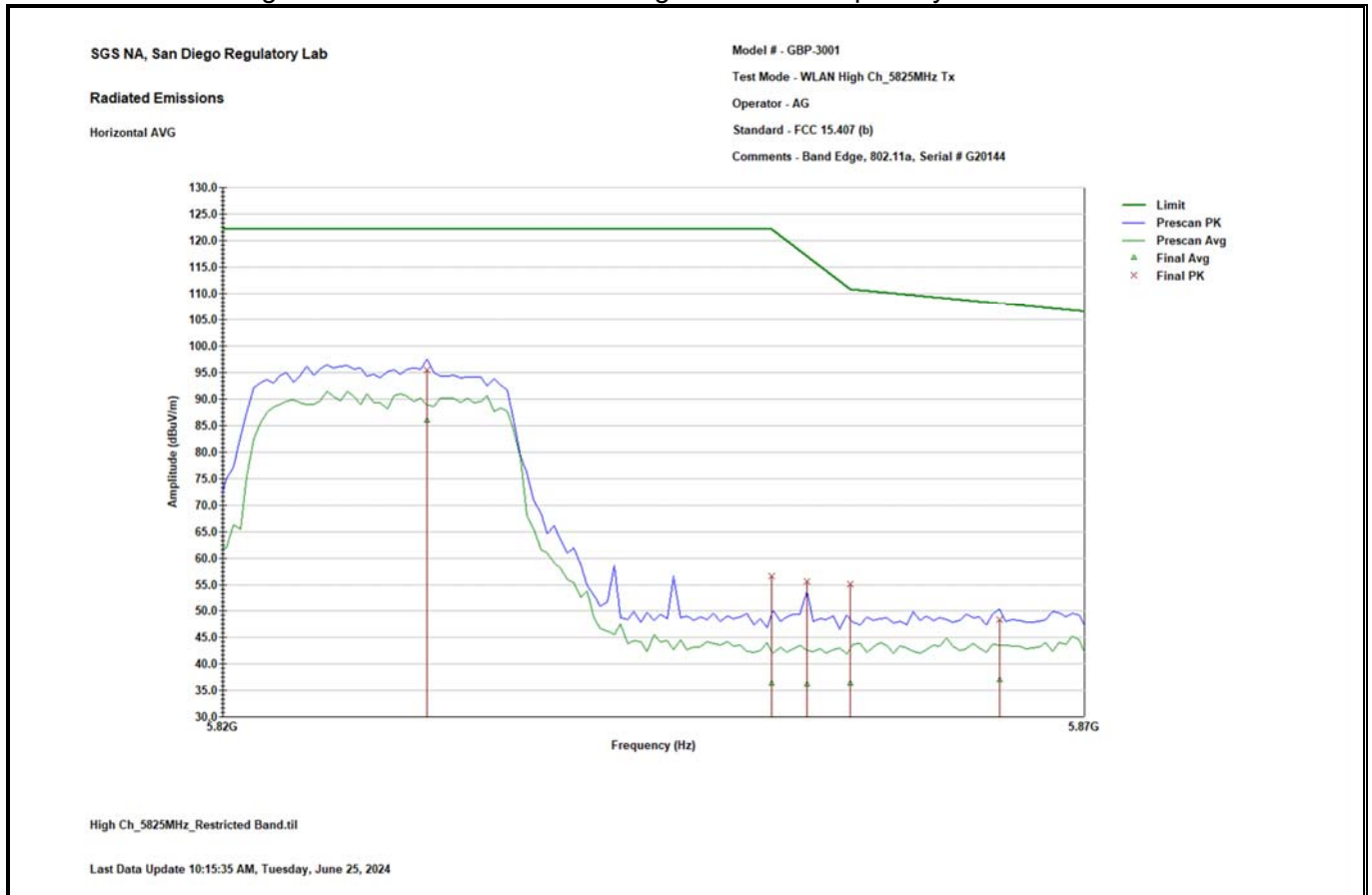
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5825.875	93.45	9.38	-28.75	122.2	150	126
5850	55.08	9.56	-67.12	122.2	380	121
5853.925	54.15	9.58	-59.11	113.25	163	122
5855	52.89	9.59	-57.91	110.8	179	249
5866.675	50.63	9.67	-56.91	107.53	357	126

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5825.875	83.97	9.38	-38.23	122.2	150	126
5850	35.47	9.56	-86.73	122.2	380	121
5853.925	35.64	9.58	-77.61	113.25	163	122
5855	35.3	9.59	-75.5	110.8	179	249
5866.675	36.05	9.67	-71.48	107.53	357	126

U-NII-3 802.11a High Channel 5825MHz Band Edge – Horizontal polarity



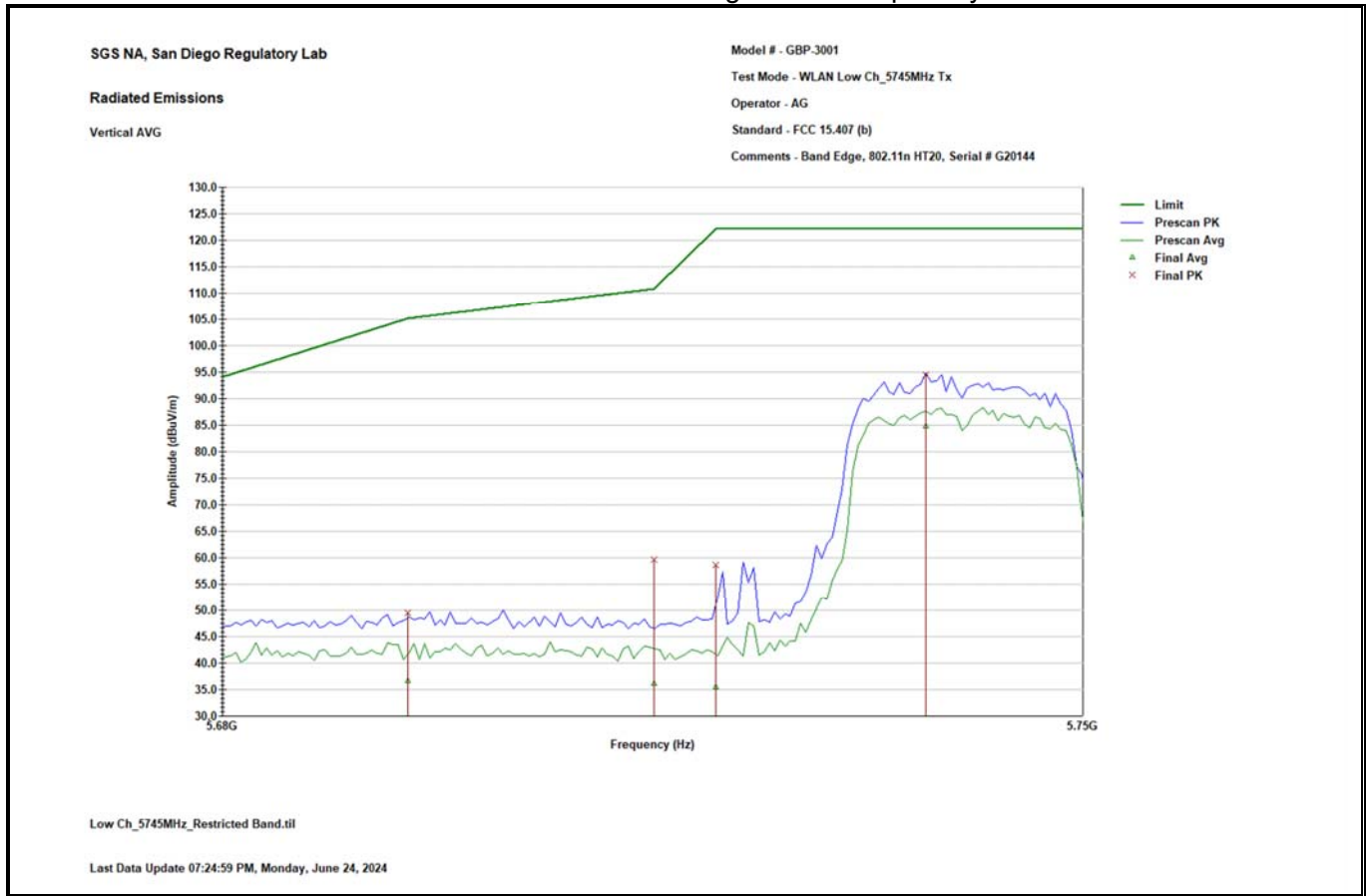
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5828	95.52	9.4	-26.68	122.2	150	146
5850	56.73	9.56	-65.47	122.2	400	146
5852.225	55.69	9.57	-61.44	117.13	262	164
5855	55.12	9.59	-55.68	110.8	400	142
5864.55	48.27	9.66	-59.86	108.13	194	175

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5828	85.96	9.4	-36.24	122.2	150	146
5850	36.38	9.56	-85.82	122.2	400	146
5852.225	36.23	9.57	-80.9	117.13	262	164
5855	36.29	9.59	-74.51	110.8	400	142
5864.55	36.96	9.66	-71.17	108.13	194	175

U-NII-3 802.11n HT20 Low Channel 5745MHz Band Edge – Vertical polarity



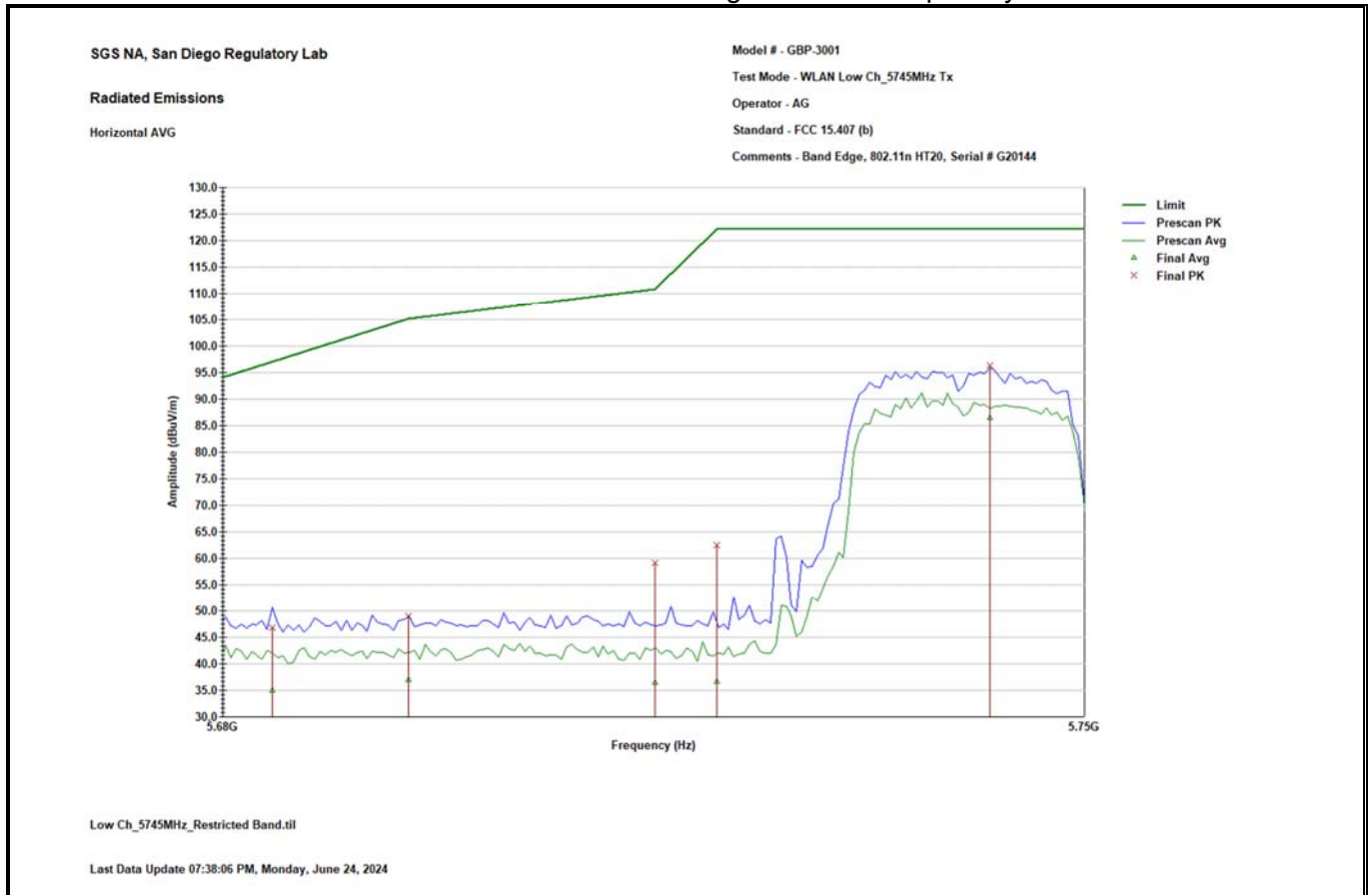
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5700	49.43	9.12	-55.77	105.2	150	114
5720	59.69	9.15	-51.11	110.8	163	129
5725	58.61	9.15	-63.59	122.2	400	-20
5742.15	94.47	9.15	-27.73	122.2	187	118

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5700	36.66	9.12	-68.54	105.2	150	114
5720	36.23	9.15	-74.57	110.8	163	129
5725	35.56	9.15	-86.64	122.2	400	-20
5742.15	84.76	9.15	-37.44	122.2	187	118

U-NII-3 802.11n HT20 Low Channel 5745MHz Band Edge – Horizontal polarity



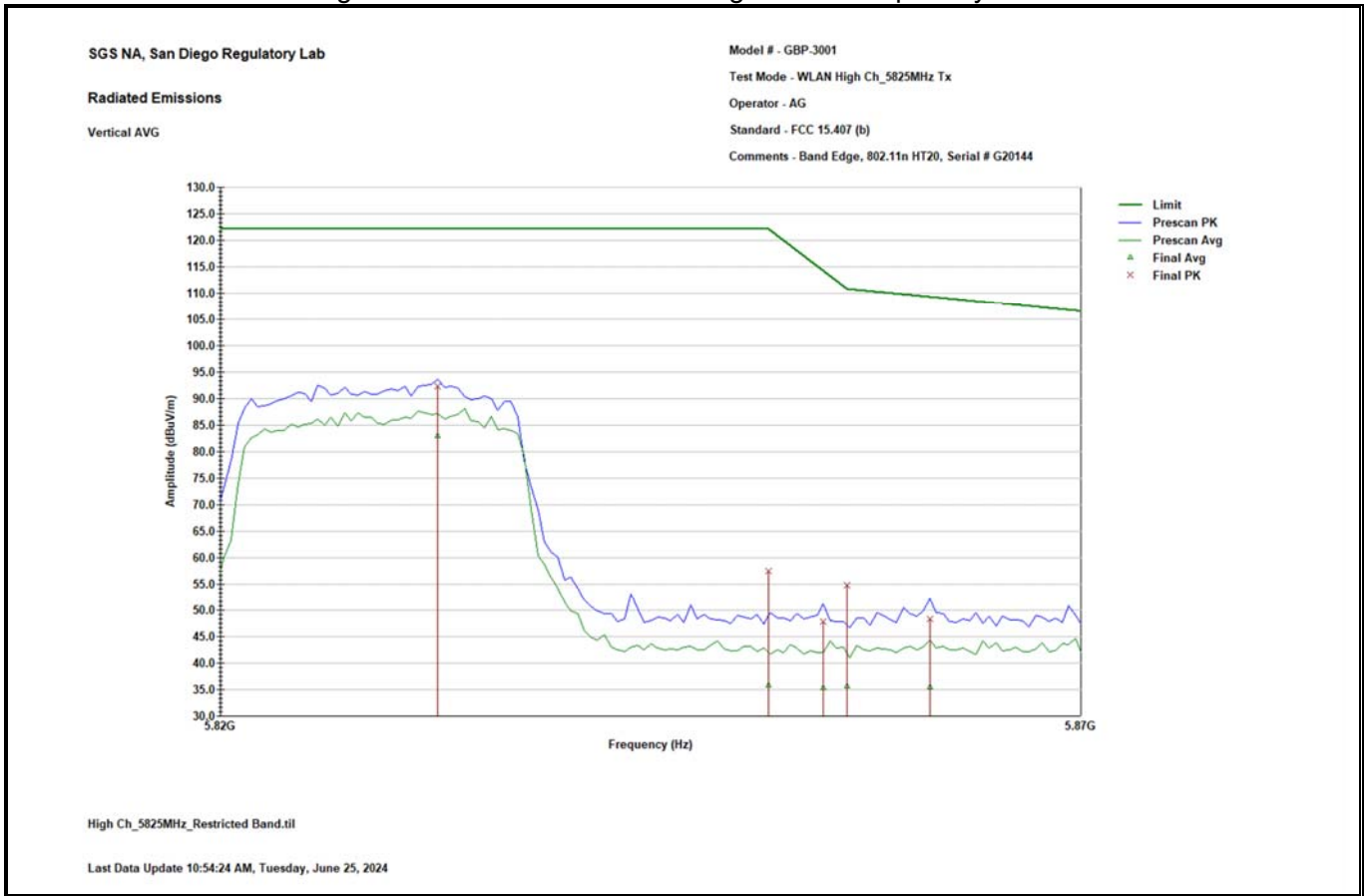
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5689.025	46.83	9.09	-50.25	97.08	363	302
5700	49.04	9.12	-56.16	105.2	171	166
5720	59.24	9.15	-51.56	110.8	150	150
5725	62.48	9.15	-59.72	122.2	209	154
5747.25	96.26	9.15	-25.94	122.2	155	153

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5689.025	34.91	9.09	-62.17	97.08	363	302
5700	37.01	9.12	-68.19	105.2	171	166
5720	36.44	9.15	-74.36	110.8	150	150
5725	36.75	9.15	-85.45	122.2	209	154
5747.25	86.52	9.15	-35.68	122.2	155	153

U-NII-3 802.11n HT20 High Channel 5825MHz Band Edge – Vertical polarity



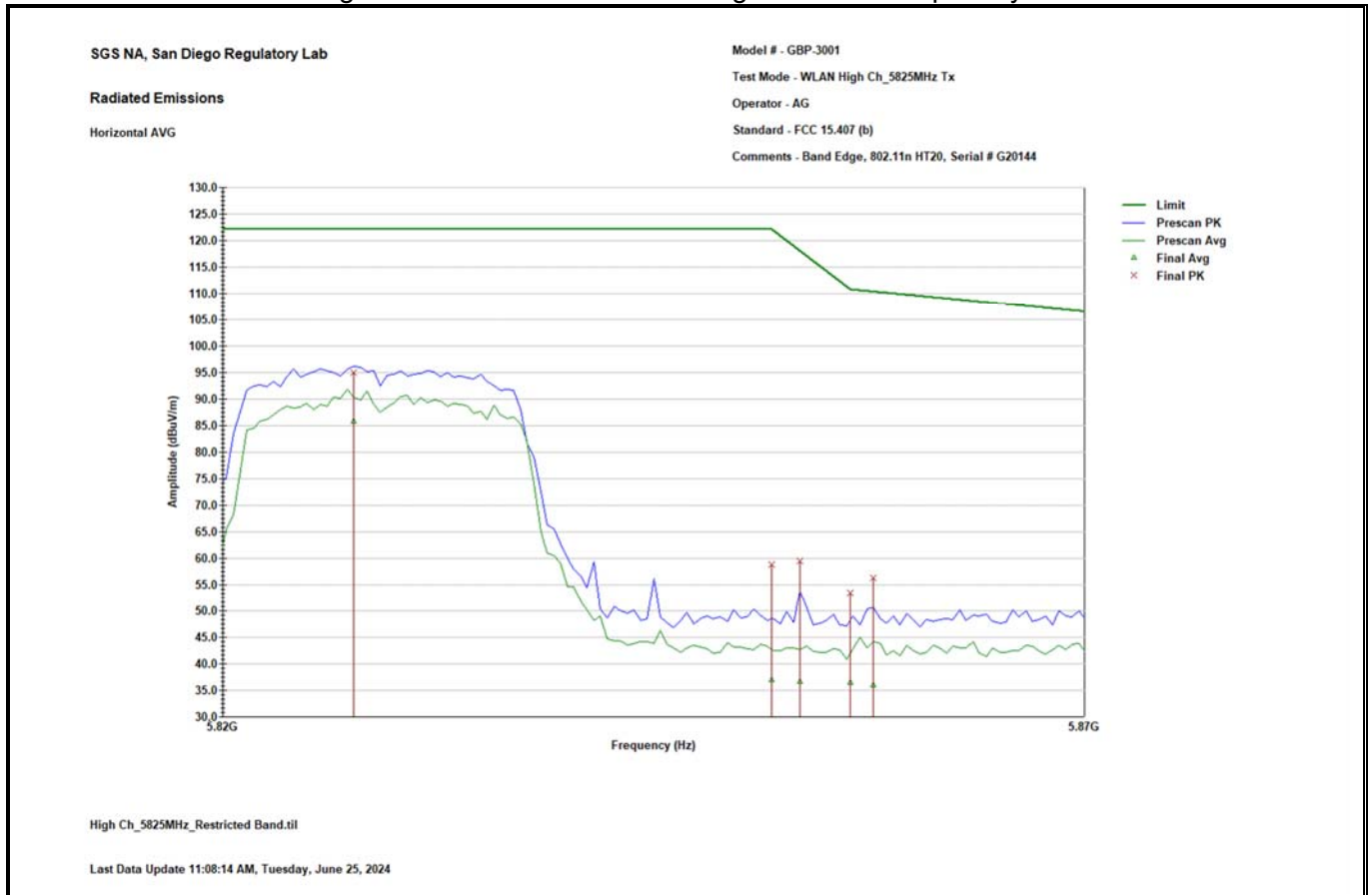
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5828.85	92.3	9.4	-29.9	122.2	163	118
5850	57.57	9.56	-64.63	122.2	150	122
5853.5	47.78	9.58	-66.44	114.22	328	-20
5855	54.86	9.59	-55.94	110.8	150	117
5860.3	48.31	9.63	-61	109.32	310	-20

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5828.85	82.99	9.4	-39.21	122.2	163	118
5850	35.76	9.56	-86.44	122.2	150	122
5853.5	35.29	9.58	-78.93	114.22	328	-20
5855	35.68	9.59	-75.12	110.8	150	117
5860.3	35.43	9.63	-73.89	109.32	310	-20

U-NII-3 802.11n HT20 High Channel 5825MHz Band Edge – Horizontal polarity



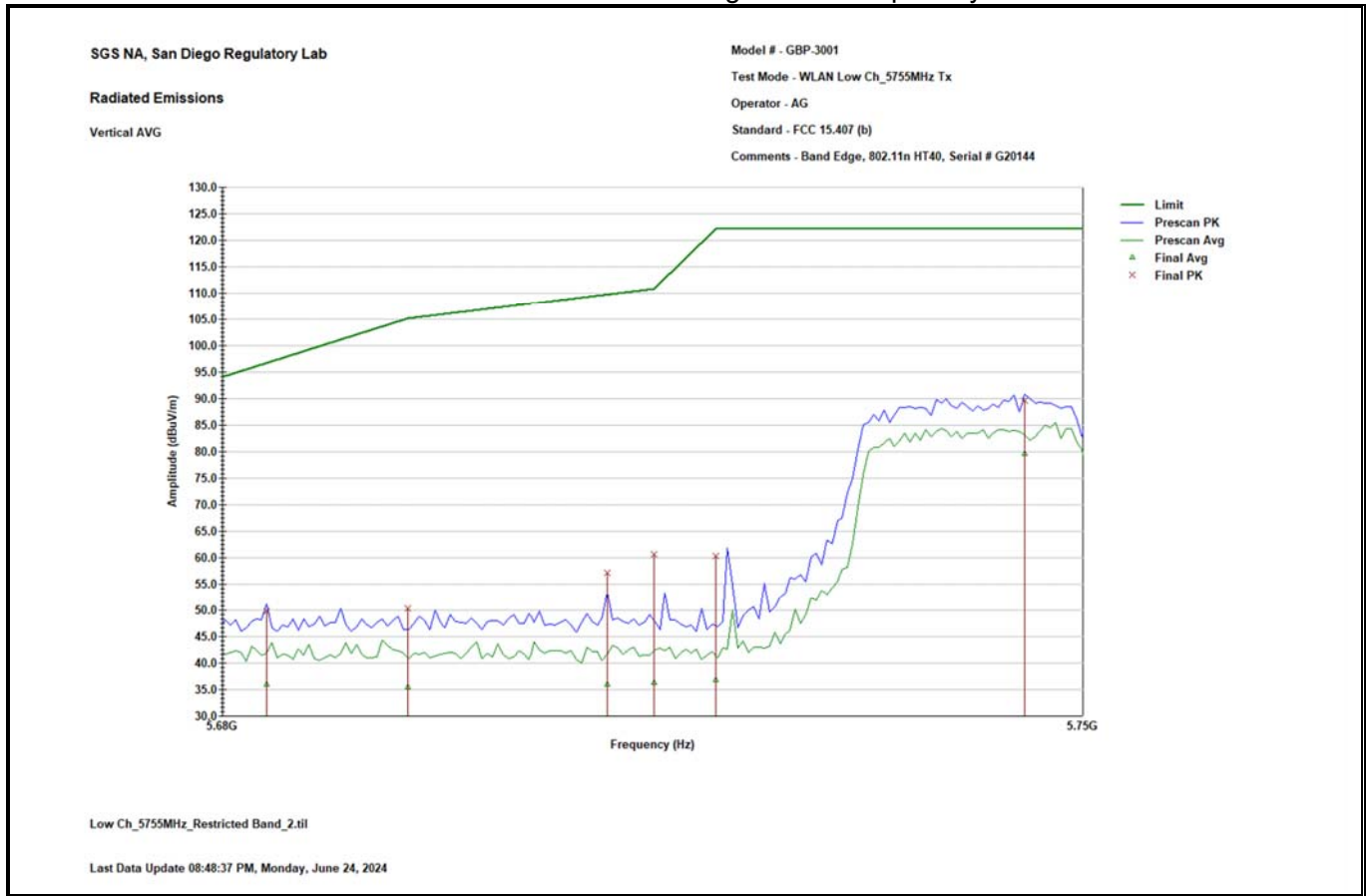
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5823.325	94.92	9.36	-27.28	122.2	150	150
5850	58.88	9.56	-63.32	122.2	263	197
5851.8	59.53	9.57	-58.56	118.1	202	173
5855	53.45	9.59	-57.35	110.8	294	172
5856.475	56.34	9.6	-54.04	110.39	240	145

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5823.325	85.78	9.36	-36.42	122.2	150	150
5850	36.91	9.56	-85.29	122.2	263	197
5851.8	36.61	9.57	-81.49	118.1	202	173
5855	36.43	9.59	-74.37	110.8	294	172
5856.475	36.03	9.6	-74.36	110.39	240	145

U-NII-3 802.11n HT40 Low Channel 5755MHz Band Edge – Vertical polarity



Peak Data

Freq. (MHz)	Final Pk (dBuV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBuV/m)	Ant. Height (cm)	Azimuth (deg.)
5688.6	49.77	9.09	-46.99	96.76	171	118
5700	50.33	9.12	-54.87	105.2	202	253
5716.225	57.25	9.15	-52.49	109.74	194	126
5720	60.66	9.15	-50.14	110.8	150	112
5725	60.4	9.15	-61.8	122.2	179	110
5750.225	89.61	9.15	-32.59	122.2	318	-20

Average Data

Freq. (MHz)	Final Avg (dBuV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBuV/m)	Ant. Height (cm)	Azimuth (deg.)
5688.6	35.97	9.09	-60.8	96.76	171	118
5700	35.54	9.12	-69.66	105.2	202	253
5716.225	36.01	9.15	-73.74	109.74	194	126
5720	36.39	9.15	-74.41	110.8	150	112
5725	36.78	9.15	-85.42	122.2	179	110
5750.225	79.72	9.15	-42.48	122.2	318	-20

U-NII-3 802.11n HT40 Low Channel 5755MHz Band Edge – Horizontal polarity

SGS NA, San Diego Regulatory Lab

Radiated Emissions

Horizontal AVG

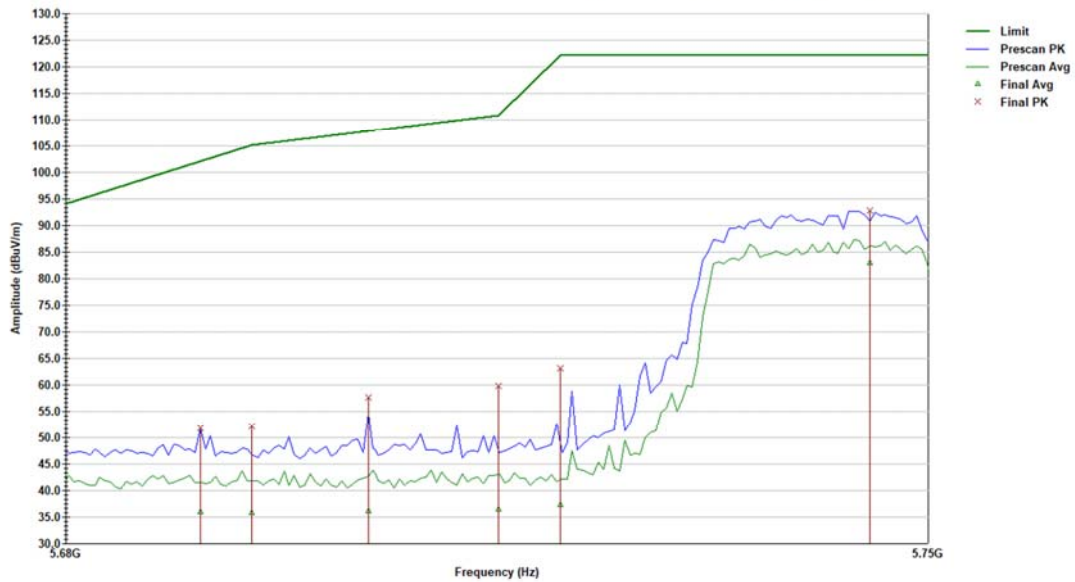
Model # - GBP-3001

Test Mode - WLAN Low Ch_5755MHz Tx

Operator - AG

Standard - FCC 15.407 (b)

Comments - Band Edge, 802.11n HT40, Serial # G20144



Low Ch_5755MHz_Restricted Band_2.ttl

Last Data Update 09:31:24 PM, Monday, June 24, 2024

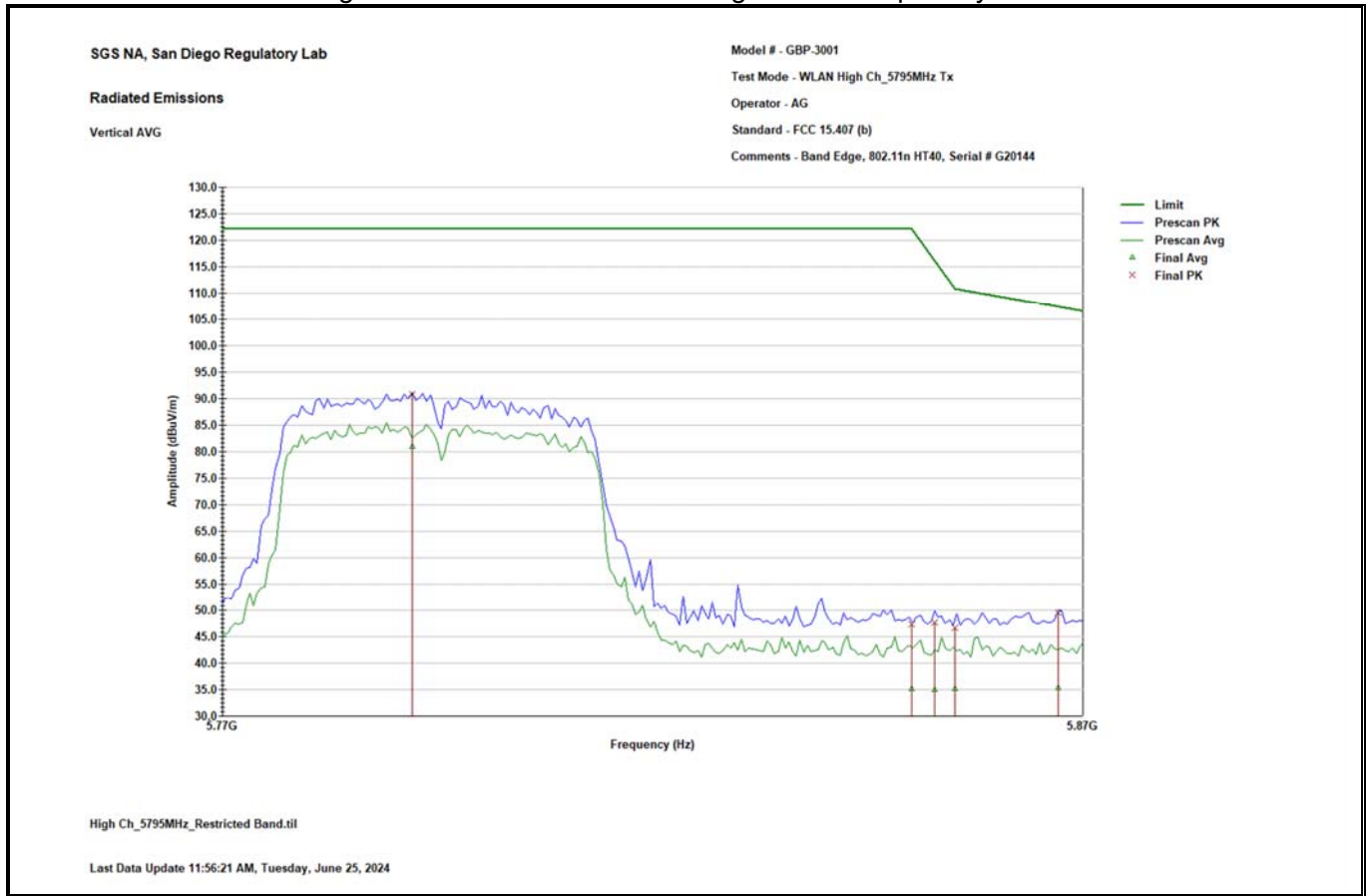
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5695.825	51.89	9.11	-50.22	102.11	179	157
5700	52.13	9.12	-53.07	105.2	179	156
5709.425	57.58	9.15	-50.26	107.84	278	160
5720	59.77	9.15	-51.03	110.8	263	172
5725	63.2	9.15	-59	122.2	156	153
5750.225	92.87	9.15	-29.33	122.2	150	149

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5695.825	35.95	9.11	-66.16	102.11	179	157
5700	35.86	9.12	-69.34	105.2	179	156
5709.425	36.18	9.15	-71.66	107.84	278	160
5720	36.43	9.15	-74.37	110.8	263	172
5725	37.28	9.15	-84.92	122.2	156	153
5750.225	82.97	9.15	-39.23	122.2	150	149

U-NII-3 802.11n HT40 High Channel 5795MHz Band Edge – Vertical polarity



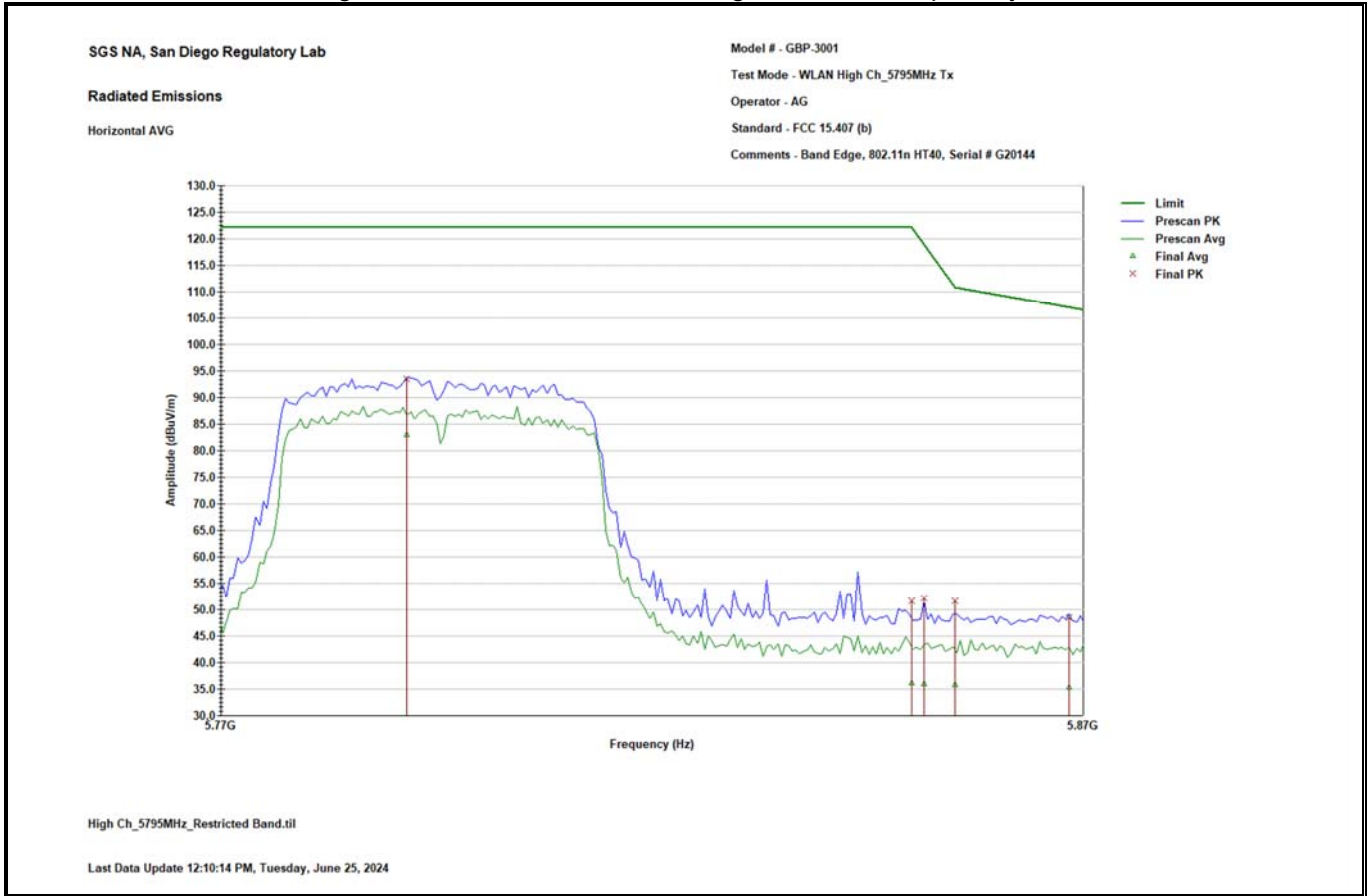
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5791.875	90.73	9.24	-31.47	122.2	210	121
5850	47.37	9.56	-74.83	122.2	257	113
5852.65	47.7	9.58	-68.46	116.16	334	114
5855	46.67	9.59	-64.13	110.8	365	121
5867.1	49.51	9.67	-57.91	107.41	163	121

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5791.875	80.96	9.24	-41.24	122.2	210	121
5850	35.14	9.56	-87.06	122.2	257	113
5852.65	35.03	9.58	-81.13	116.16	334	114
5855	35.18	9.59	-75.62	110.8	365	121
5867.1	35.27	9.67	-72.15	107.41	163	121

U-NII-3 802.11n HT40 High Channel 5795MHz Band Edge – Horizontal polarity



Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5791.45	93.47	9.24	-28.73	122.2	150	153
5850	51.65	9.56	-70.55	122.2	225	174
5851.375	52.17	9.57	-66.9	119.06	240	171
5855	51.72	9.59	-59.08	110.8	217	171
5868.375	48.52	9.68	-58.54	107.05	270	153

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5791.45	83.06	9.24	-39.14	122.2	150	153
5850	36.11	9.56	-86.09	122.2	225	174
5851.375	35.96	9.57	-83.1	119.06	240	171
5855	35.85	9.59	-74.95	110.8	217	171
5868.375	35.32	9.68	-71.73	107.05	270	153

U-NII-3 802.11ac VHT80 Mid Channel 5775MHz Band Edge – Vertical polarity

SGS NA, San Diego Regulatory Lab

Radiated Emissions

Vertical AVG

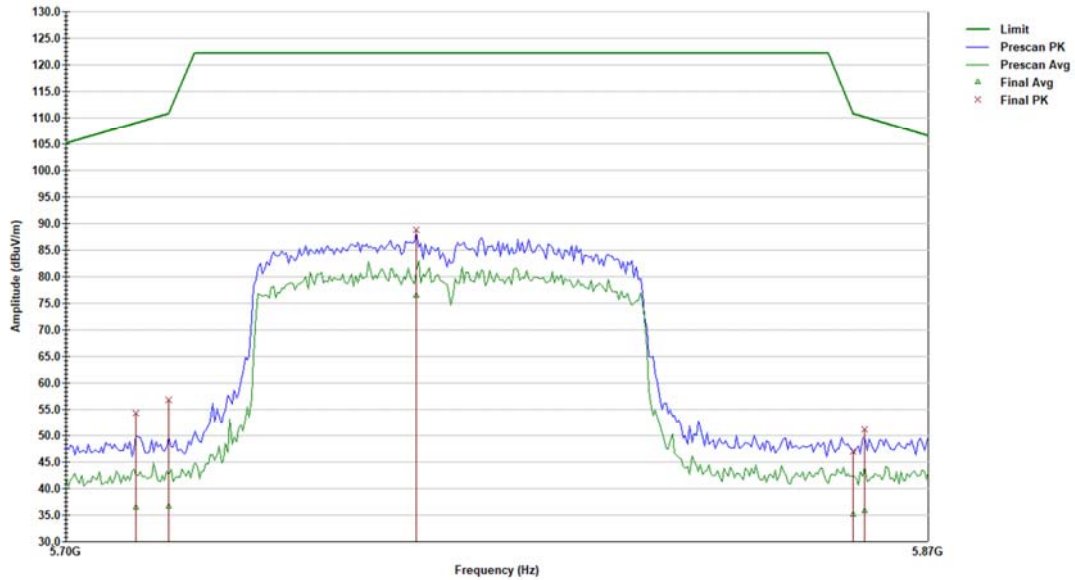
Model # - GBP-3001

Test Mode - WLAN Mid Ch_5775MHz Tx

Operator - AG

Standard - FCC 15.407 (b)

Comments - Band Edge, 802.11ac VHT80, Serial # G20144



Mid Ch_5775MHz_Restricted Band.ttl

Last Data Update 10:13:11 PM, Monday, June 24, 2024

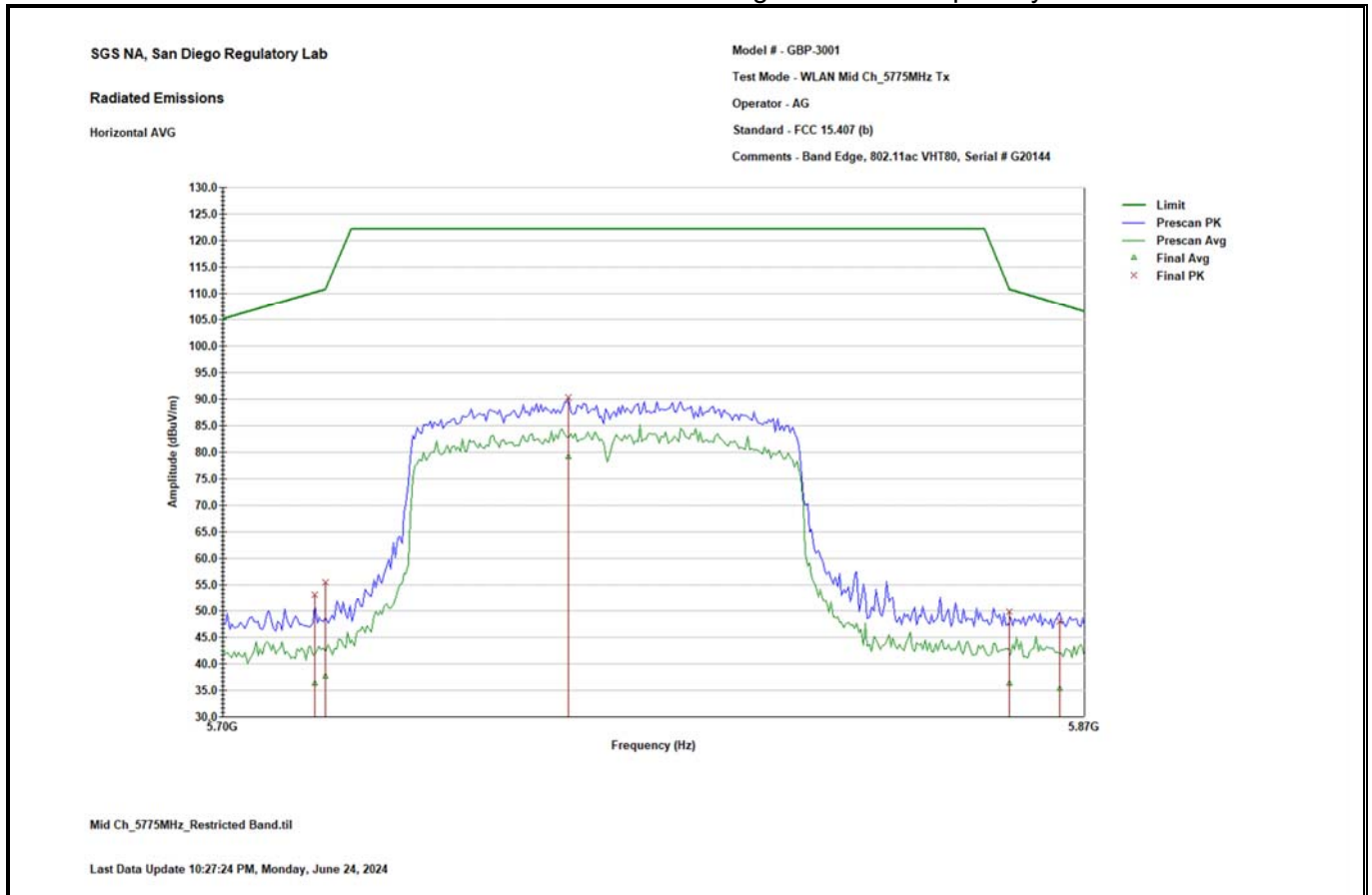
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5713.675	54.36	9.15	-54.67	109.03	155	114
5720	56.82	9.15	-53.98	110.8	150	113
5768.5	88.82	9.16	-33.38	122.2	150	114
5855	46.96	9.59	-63.84	110.8	372	290
5857.325	51.19	9.61	-58.96	110.15	217	112

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5713.675	36.49	9.15	-72.54	109.03	155	114
5720	36.74	9.15	-74.06	110.8	150	113
5768.5	76.55	9.16	-45.65	122.2	150	114
5855	35.12	9.59	-75.68	110.8	372	290
5857.325	35.75	9.61	-74.4	110.15	217	112

U-NII-3 802.11ac VHT80 Mid Channel 5775MHz Band Edge – Horizontal polarity



Peak Data

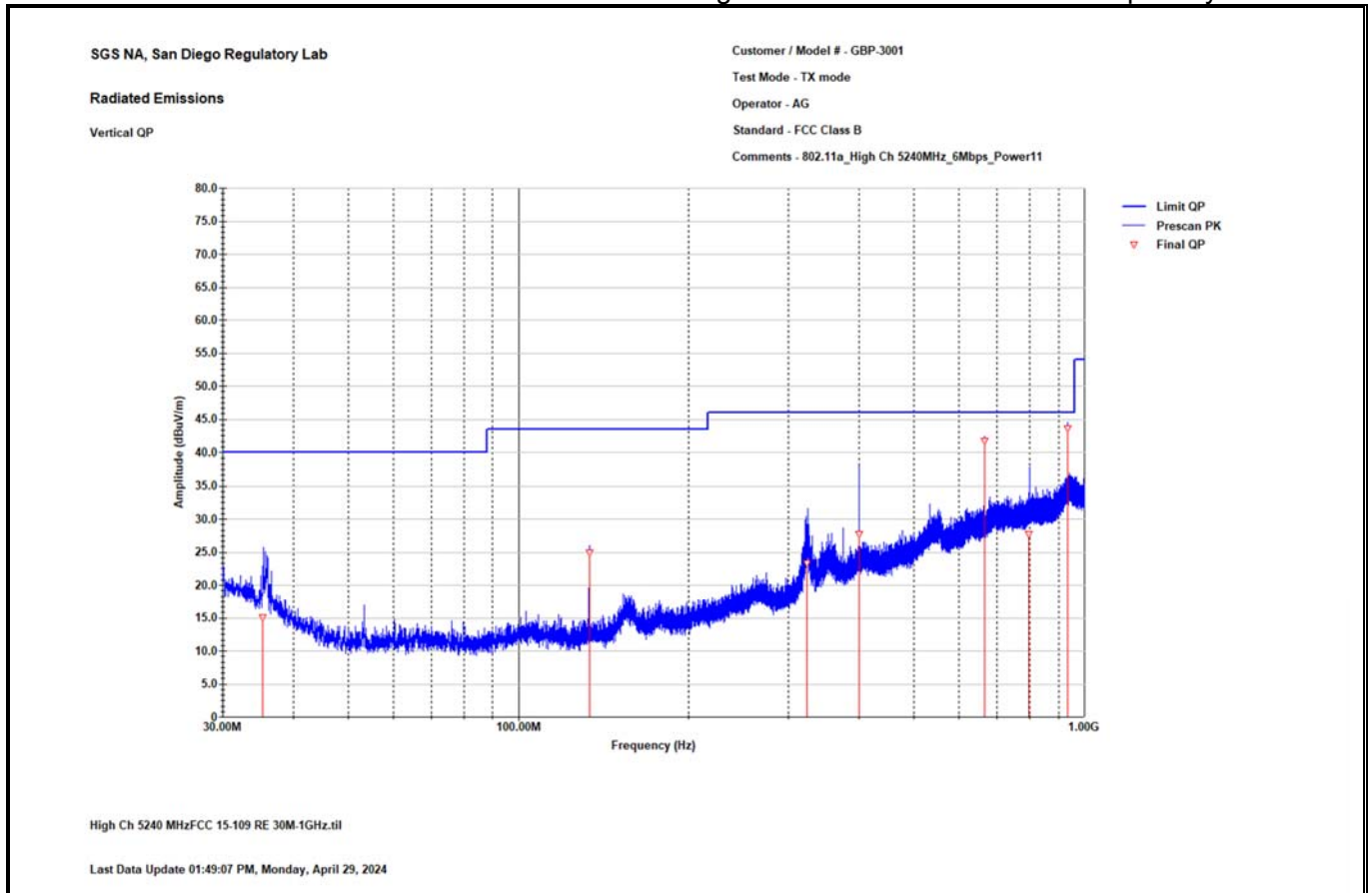
Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5717.925	53.19	9.15	-57.03	110.22	179	227
5720	55.44	9.15	-55.36	110.8	150	155
5767.65	90.36	9.16	-31.84	122.2	155	152
5855	49.89	9.59	-60.91	110.8	316	142
5864.975	48	9.66	-60.01	108.01	194	208

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5717.925	36.39	9.15	-73.83	110.22	179	227
5720	37.67	9.15	-73.13	110.8	150	155
5767.65	79.23	9.16	-42.97	122.2	155	152
5855	36.39	9.59	-74.41	110.8	316	142
5864.975	35.27	9.66	-72.74	108.01	194	208

4.10 Test Data – Radiated Spurious Emission

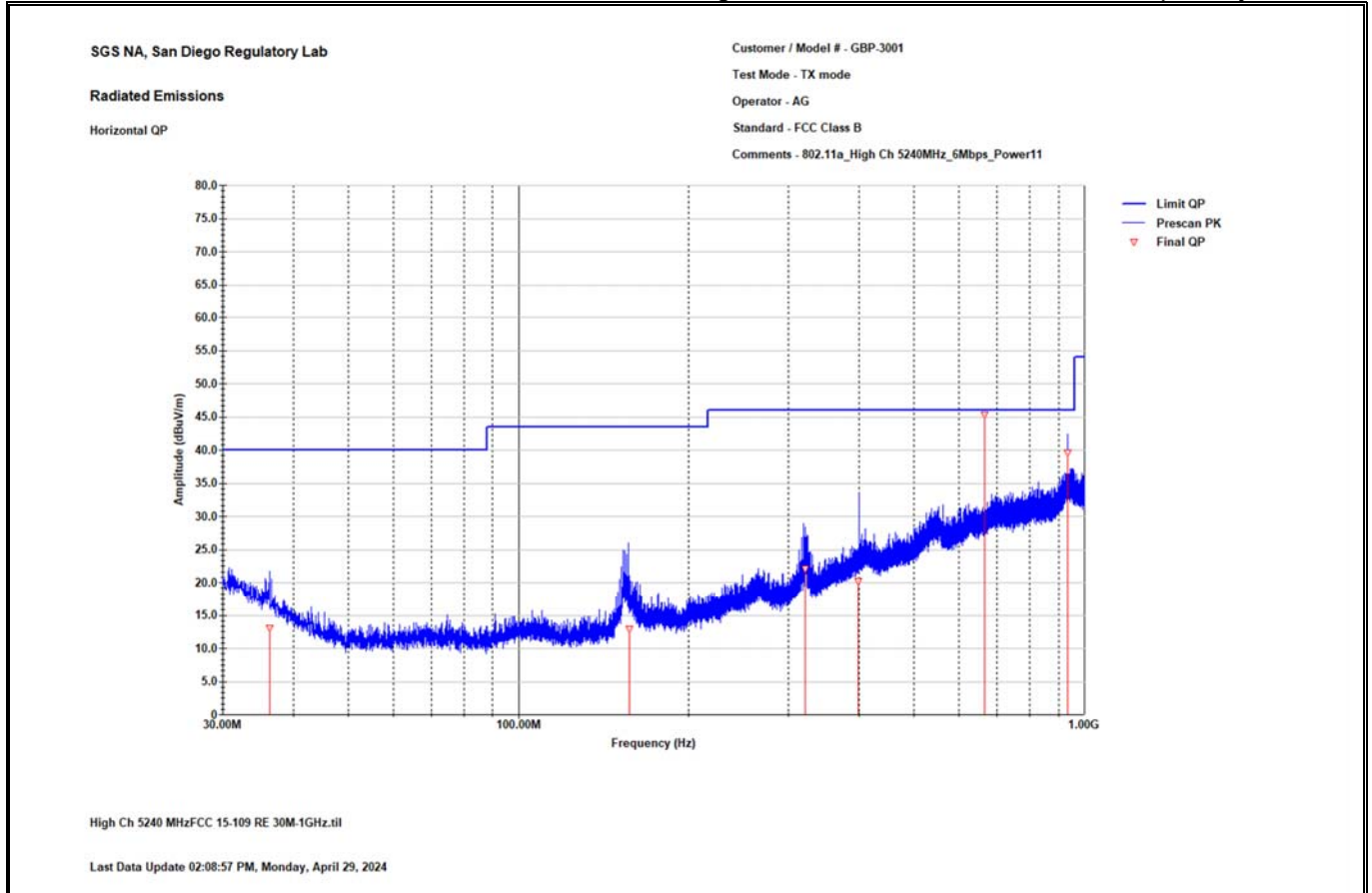
UNII-1 802.11a mode– 30MHz to 1GHz Worst-Case High Channel 5240MHz – Vertical polarity



Quasi-Peak Data

Freq. (MHz)	Final QP (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
35.231	15.02	-24.31	-24.98	40	162	33
133.323	24.95	-29.74	-18.57	43.52	100	249
322.831	23.35	-22.81	-22.67	46.02	130	257
400.016	27.72	-18.6	-18.3	46.02	129	380
666.71	41.77	-12.77	-4.25	46.02	114	-20
796.88	27.76	-11.47	-18.26	46.02	138	107
933.38	43.58	-8.41	-2.44	46.02	171	60

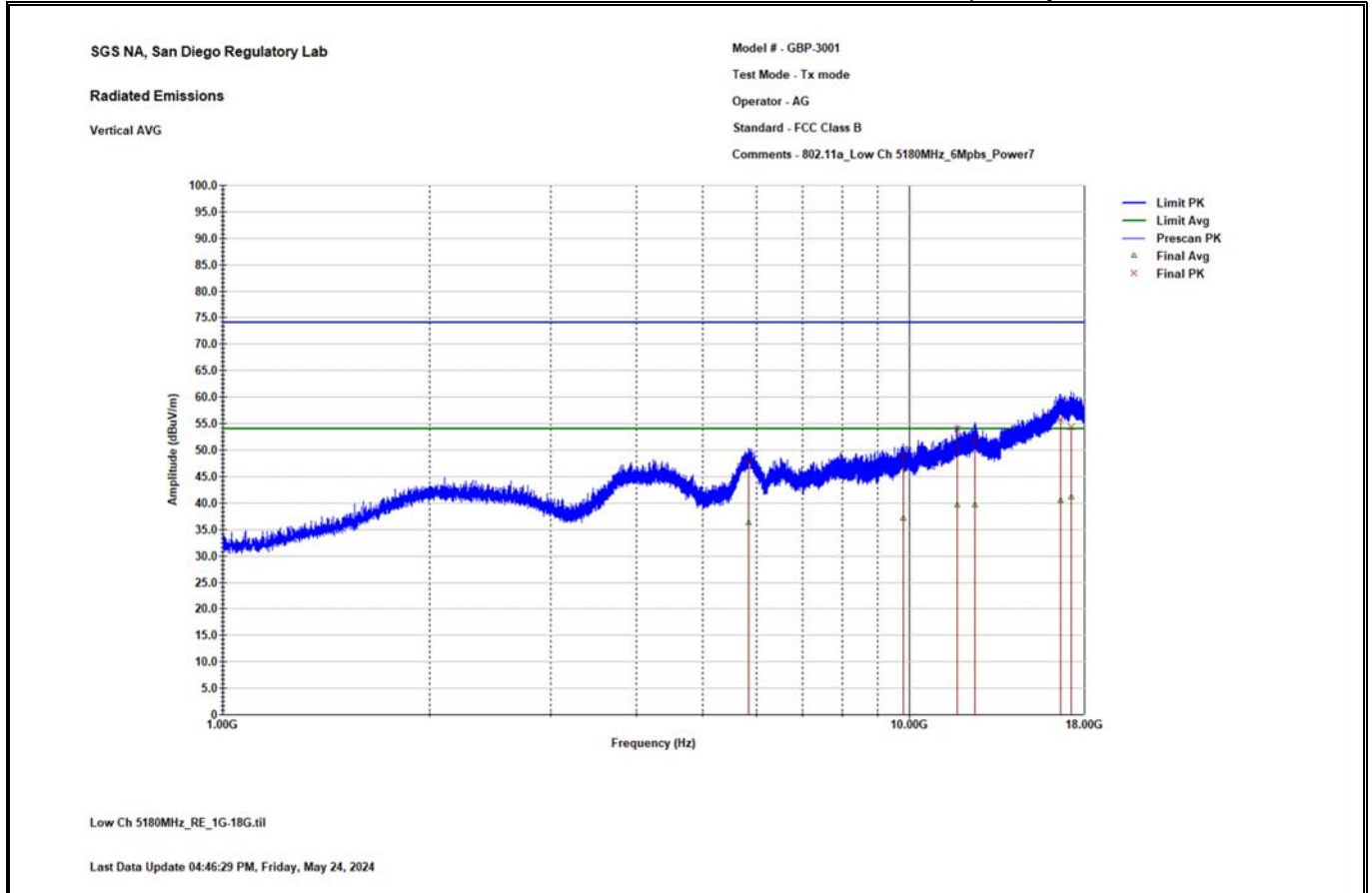
UNII-1 802.11a mode– 30MHz to 1GHz Worst-Case High Channel 5240MHz – Horizontal polarity



Quasi-Peak Data

Freq. (MHz)	Final QP (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
36.249	13.09	-24.86	-26.91	40	201	-2
156.881	12.95	-26.24	-30.57	43.52	100	109
320.608	22.15	-22.82	-23.87	46.02	106	71
398.996	20.27	-18.65	-25.75	46.02	216	140
666.683	45.27	-12.77	-0.75	46.02	100	52
933.357	39.52	-8.41	-6.5	46.02	162	129

UNII-1 802.11a mode – 1GHz to 18GHz Low Channel 5180MHz – Vertical polarity



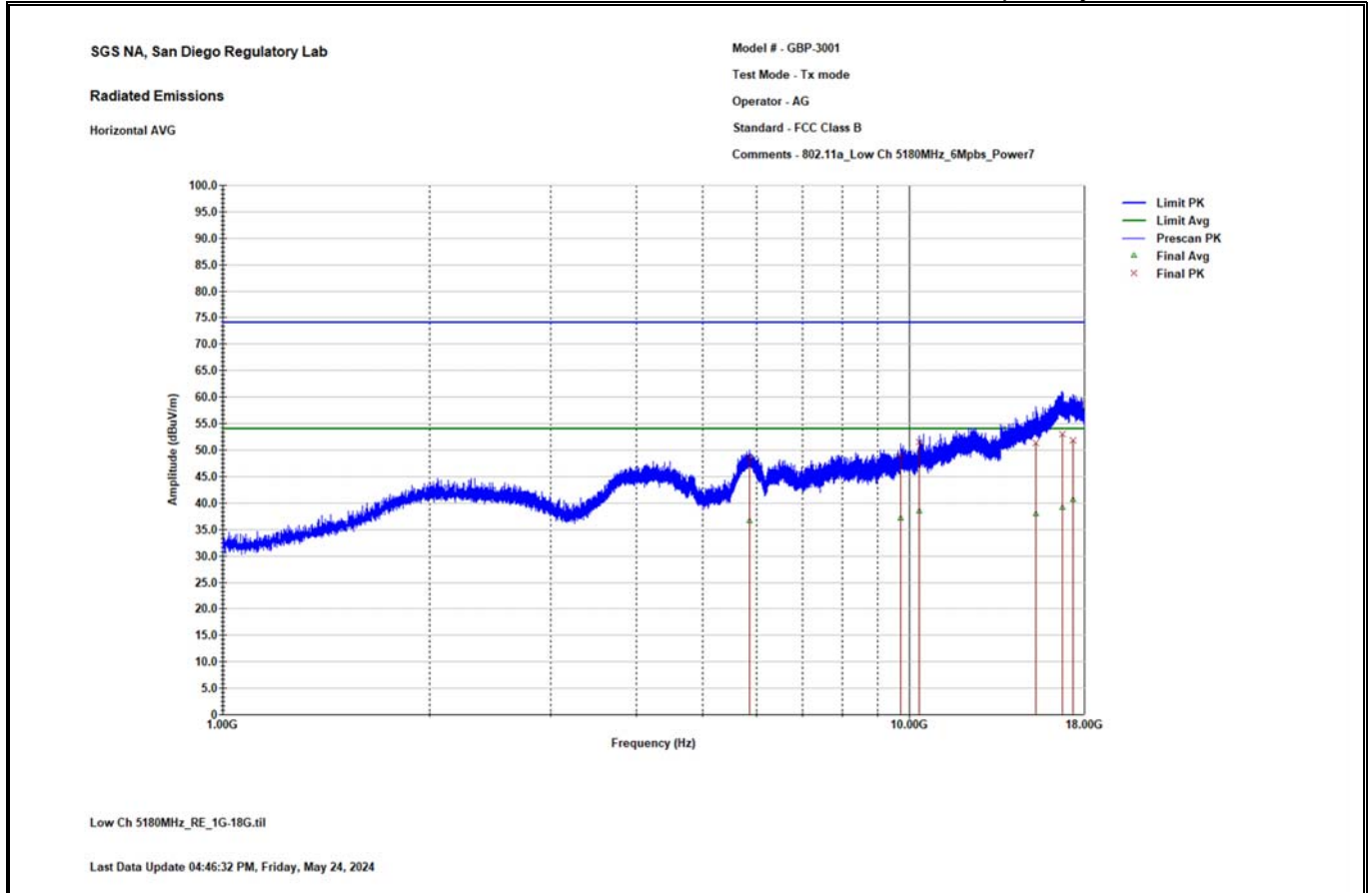
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5836.075	47.95	9.46	-26.05	74	358	223
9806.85	48.93	19.15	-25.07	74	187	235
11729.98	53.95	24.68	-20.05	74	150	242
12452.47	52.07	25.98	-21.93	74	256	358
16597.5	55.82	33.52	-18.18	74	256	42
17197.6	54.33	32.81	-19.67	74	187	-20

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5836.075	36.4	9.46	-17.6	54	358	223
9806.85	37.24	19.15	-16.76	54	187	235
11729.98	39.61	24.68	-14.39	54	150	242
12452.47	39.58	25.98	-14.42	54	256	358
16597.5	40.52	33.52	-13.48	54	256	42
17197.6	41.13	32.81	-12.87	54	187	-20

UNII-1 802.11a mode – 1GHz to 18GHz Low Channel 5180MHz – Horizontal polarity



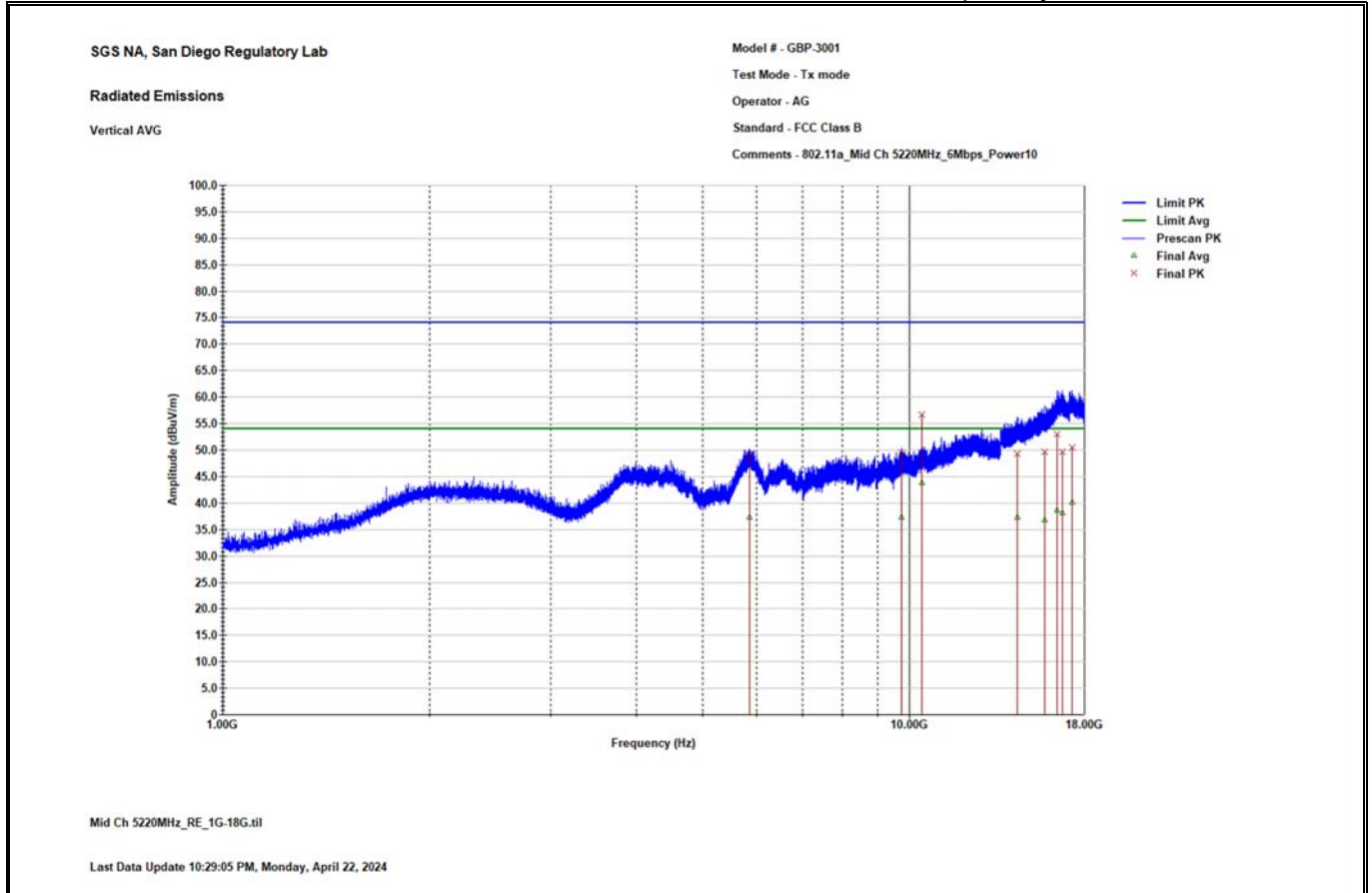
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5856.05	48.73	9.6	-25.27	74	155	365
9715.9	49.04	18.89	-24.96	74	240	36
10356.37	51.41	20.29	-22.59	74	223	79
15306.35	51.32	29.17	-22.68	74	386	146
16730.95	52.92	33.59	-21.08	74	150	154
17332.75	51.8	32.43	-22.2	74	194	272

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5856.05	36.6	9.6	-17.4	54	155	365
9715.9	37.22	18.89	-16.78	54	240	36
10356.37	38.45	20.29	-15.55	54	223	79
15306.35	37.97	29.17	-16.03	54	386	146
16730.95	39.19	33.59	-14.81	54	150	154
17332.75	40.71	32.43	-13.29	54	194	272

UNII-1 802.11a mode – 1GHz to 18GHz Mid Channel 5220MHz – Vertical polarity



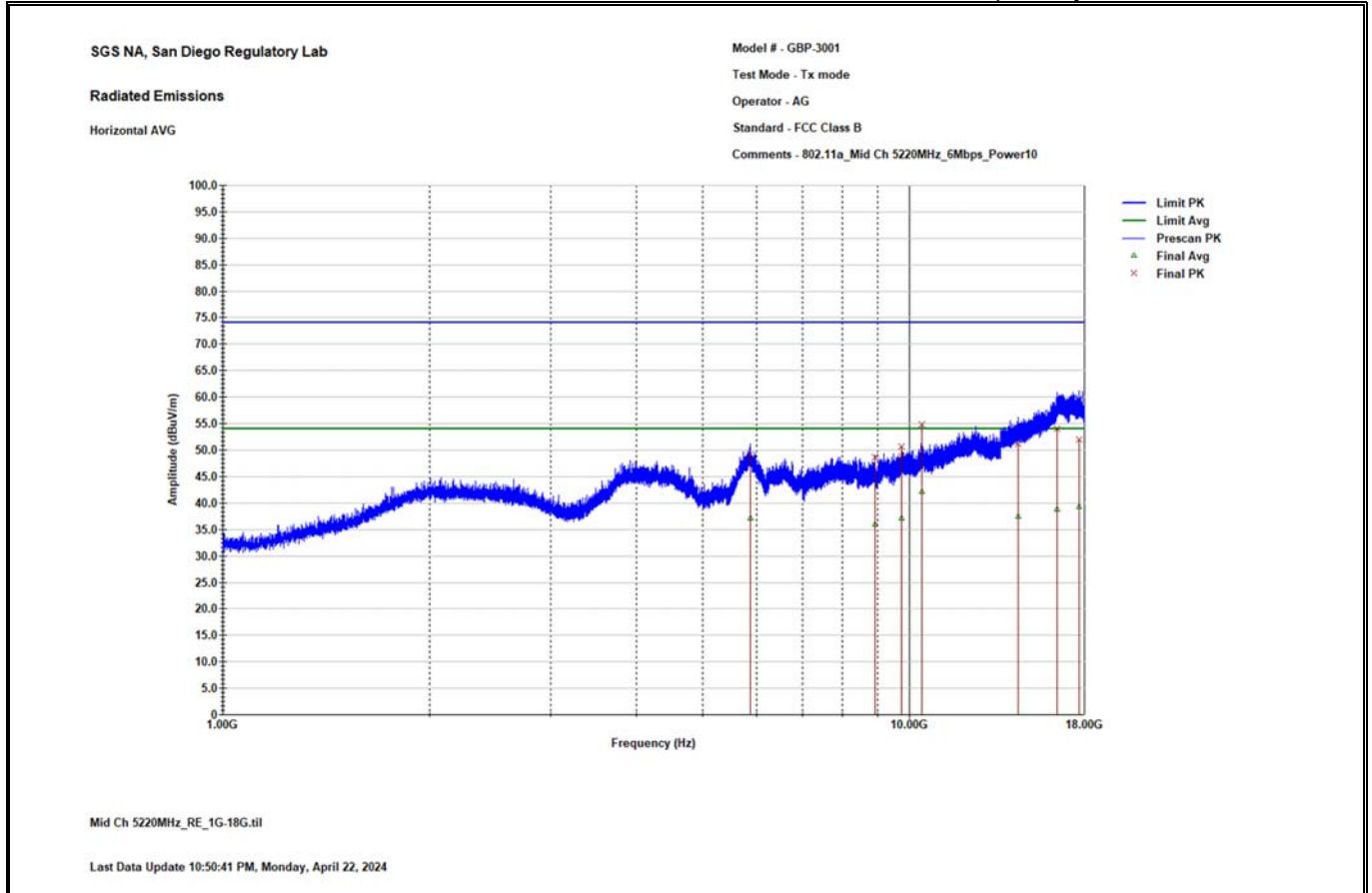
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5857.325	49.13	9.61	-24.87	74	202	186
9754.575	49.42	19.12	-24.58	74	256	148
10442.65	56.59	20.47	-17.41	74	150	151
14353.93	49.32	27.13	-24.68	74	150	304
15756	49.64	30.24	-24.36	74	171	288
16407.53	53.03	32.68	-20.97	74	272	310
16713.1	49.65	33.6	-24.35	74	400	374
17263.47	50.42	32.62	-23.58	74	179	95

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5857.325	37.29	9.61	-16.71	54	202	186
9754.575	37.27	19.12	-16.73	54	256	148
10442.65	43.79	20.47	-10.21	54	150	151
14353.93	37.37	27.13	-16.63	54	150	304
15756	36.87	30.24	-17.13	54	171	288
16407.53	38.72	32.68	-15.28	54	272	310
16713.1	38.11	33.6	-15.89	54	400	374
17263.47	40.21	32.62	-13.79	54	179	95

UNII-1 802.11a mode – 1GHz to 18GHz Mid Channel 5220MHz – Horizontal polarity



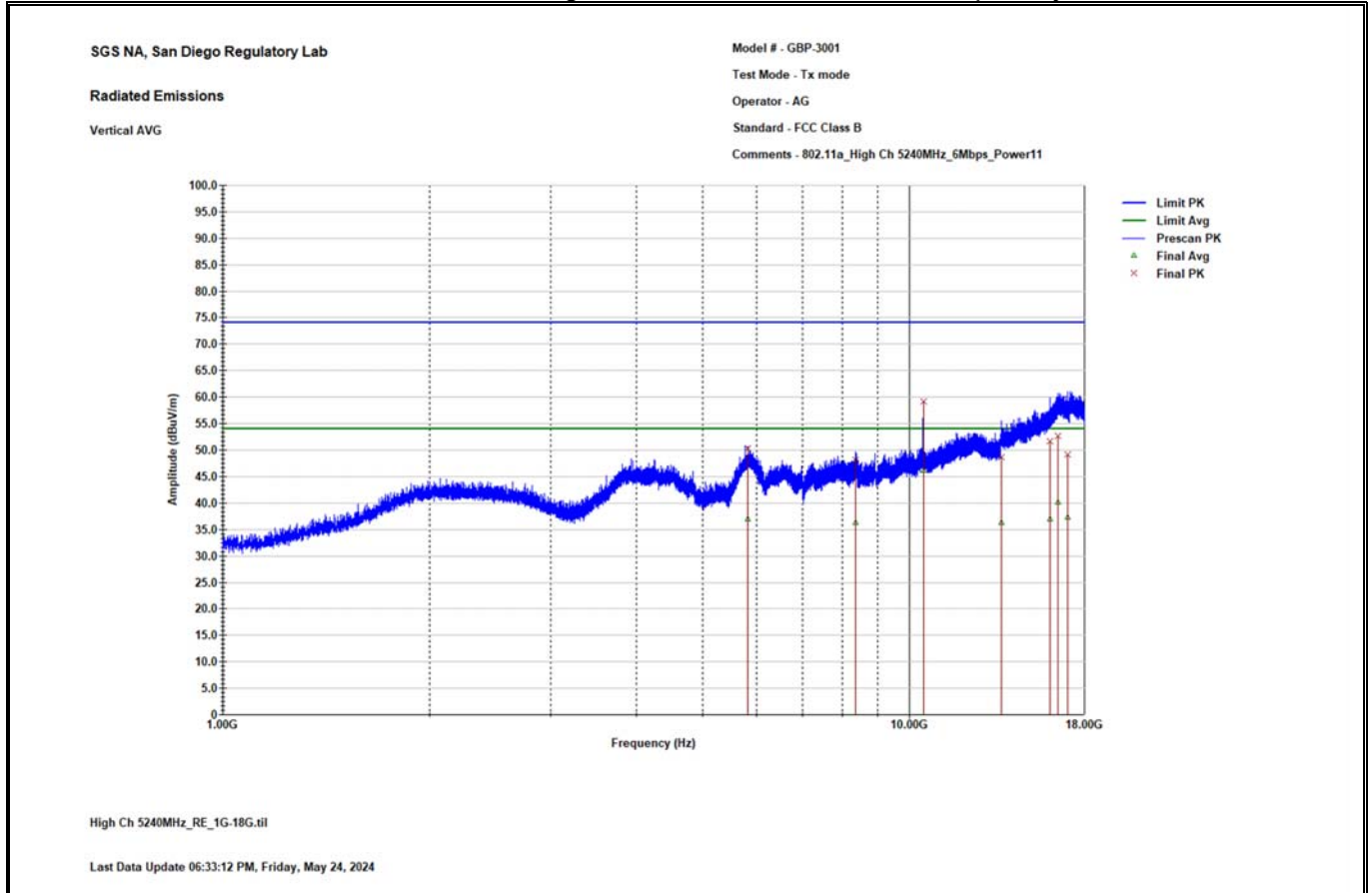
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5862.85	49.22	9.65	-24.78	74	348	277
8928.8	48.58	16.88	-25.42	74	331	185
9732.9	48.83	18.99	-25.17	74	379	266
9732.9	50.62	18.99	-23.38	74	256	344
10431.6	54.74	20.46	-19.26	74	394	155
14418.53	51.14	27.19	-22.86	74	363	150
16438.55	54.06	32.82	-19.94	74	298	108
17691.45	51.95	31.95	-22.05	74	400	213

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5862.85	37.18	9.65	-16.82	54	348	277
8928.8	36	16.88	-18	54	331	185
9732.9	37.14	18.99	-16.86	54	379	266
9732.9	37.16	18.99	-16.84	54	256	344
10431.6	42.23	20.46	-11.77	54	394	155
14418.53	37.49	27.19	-16.51	54	363	150
16438.55	38.86	32.82	-15.14	54	298	108
17691.45	39.38	31.95	-14.62	54	400	213

UNII-1 802.11a mode – 1GHz to 18GHz High Channel 5240MHz – Vertical polarity



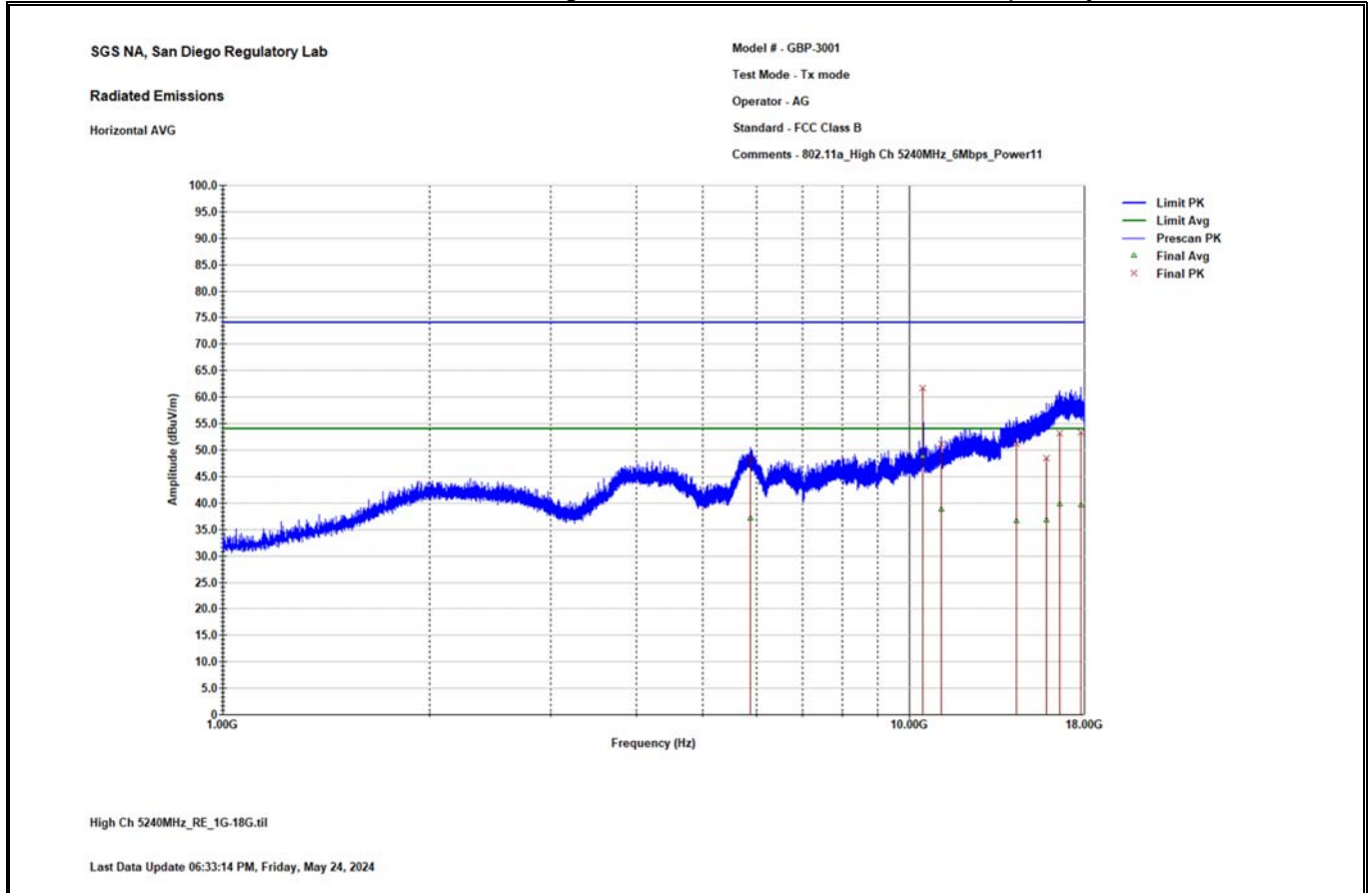
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5825.875	50.24	9.38	-23.76	74	310	181
8364.4	48.22	15.66	-25.78	74	163	144
10485.15	59.17	20.54	-14.83	74	150	146
13616.2	48.6	26.3	-25.4	74	280	366
16059.03	51.72	31.23	-22.28	74	392	43
16492.52	52.73	33.07	-21.27	74	350	-10
16989.77	49.1	33.15	-24.9	74	400	308

Average Data

Freq. (MHz)	Final Avg (dBµV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Ant. Height (cm)	Azimuth (deg.)
5825.875	36.91	9.38	-17.09	54	310	181
8364.4	36.4	15.66	-17.6	54	163	144
10485.15	46.14	20.54	-7.86	54	150	146
13616.2	36.31	26.3	-17.69	54	280	366
16059.03	37.05	31.23	-16.95	54	392	43
16492.52	40.16	33.07	-13.84	54	350	-10
16989.77	37.36	33.15	-16.64	54	400	308

UNII-1 802.11a mode – 1GHz to 18GHz High Channel 5240MHz – Horizontal polarity



Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5876.45	48.29	9.74	-25.71	74	332	88
10478.78	61.58	20.53	-12.42	74	348	146
11137.95	51.17	22.66	-22.83	74	171	304
14311.43	51.16	27.15	-22.84	74	217	6
15850.35	48.52	30.53	-25.48	74	372	90
16566.05	53.22	33.39	-20.78	74	233	113
17763.7	53.28	31.87	-20.72	74	400	191

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5876.45	37.1	9.74	-16.9	54	332	88
10478.78	48.89	20.53	-5.11	54	348	146
11137.95	38.75	22.66	-15.25	54	171	304
14311.43	36.67	27.15	-17.33	54	217	6
15850.35	36.82	30.53	-17.18	54	372	90
16566.05	39.87	33.39	-14.13	54	233	113
17763.7	39.67	31.87	-14.33	54	400	191

UNII-1 802.11n HT20 mode– 30MHz to 1GHz Worst-Case High Channel 5240MHz – Vertical polarity

SGS NA, San Diego Regulatory Lab

Radiated Emissions

Vertical QP

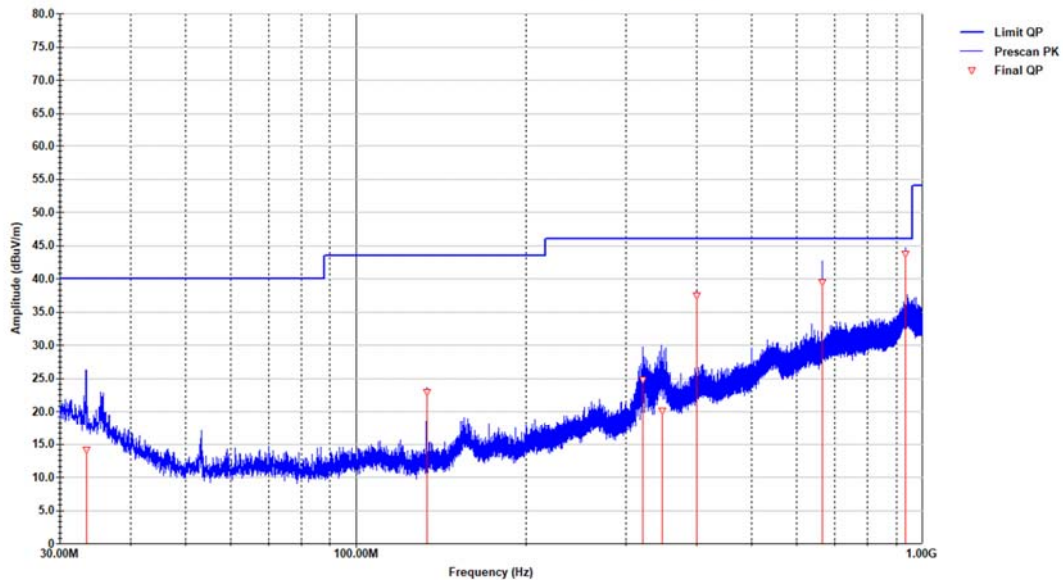
Customer / Model # - GBP-3001

Test Mode - TX mode

Operator - AG

Standard - FCC Class B

Comments - 802.11n20_High Ch 5240MHz_mcs0_Power11



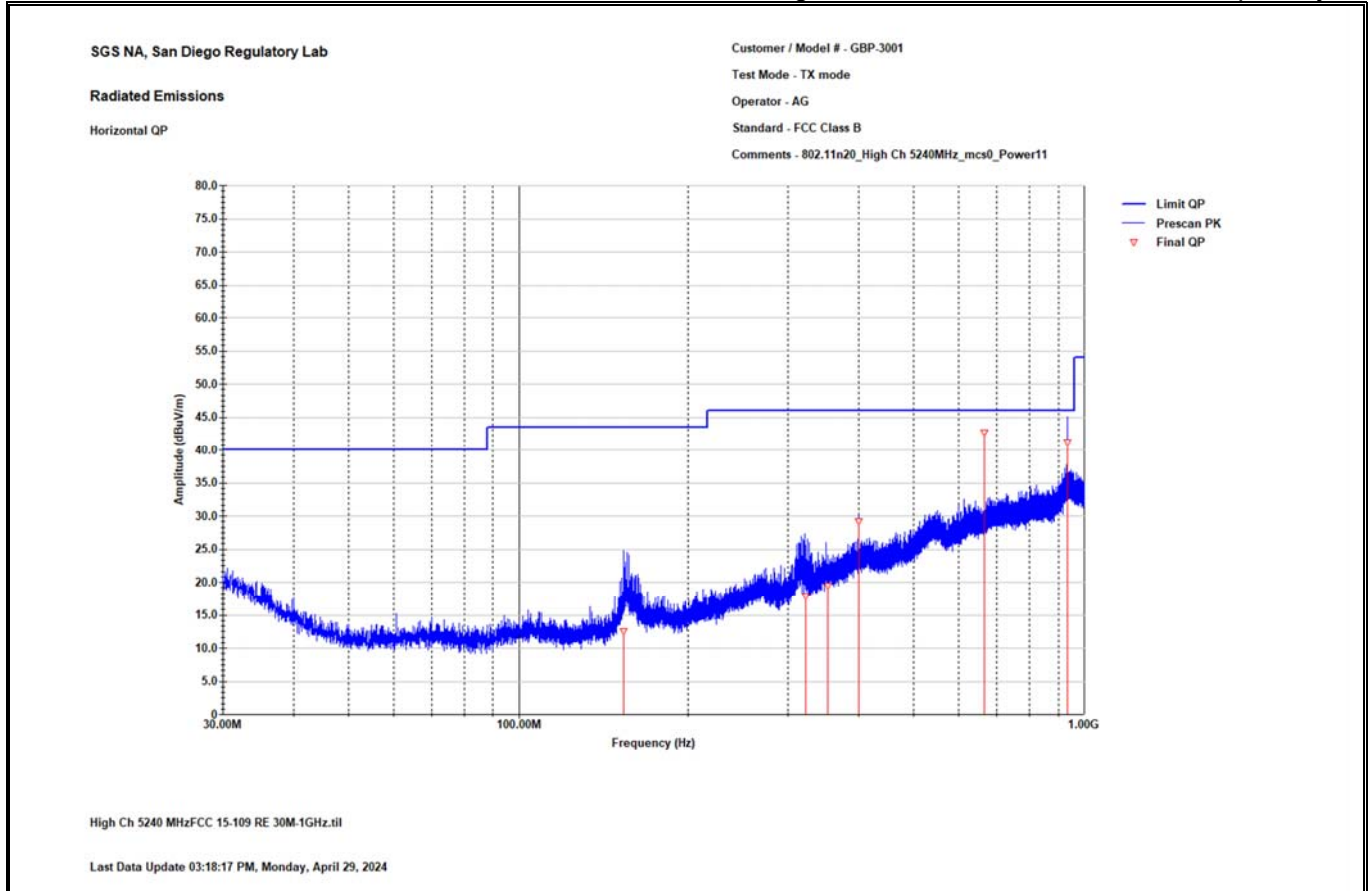
High Ch 5240 MHzFCC 15-109 RE 30M-1GHz.ttl

Last Data Update 03:01:41 PM, Monday, April 29, 2024

Quasi-Peak Data

Freq. (MHz)	Final QP (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
33.39	14.14	-23.24	-25.86	40	393	2
133.323	22.98	-29.74	-20.54	43.52	100	261
321.539	24.75	-22.82	-21.27	46.02	122	89
348.078	20.13	-21.16	-25.89	46.02	178	-20
400.016	37.41	-18.6	-8.61	46.02	114	164
666.68	39.51	-12.77	-6.51	46.02	282	230
933.374	43.69	-8.41	-2.33	46.02	169	108

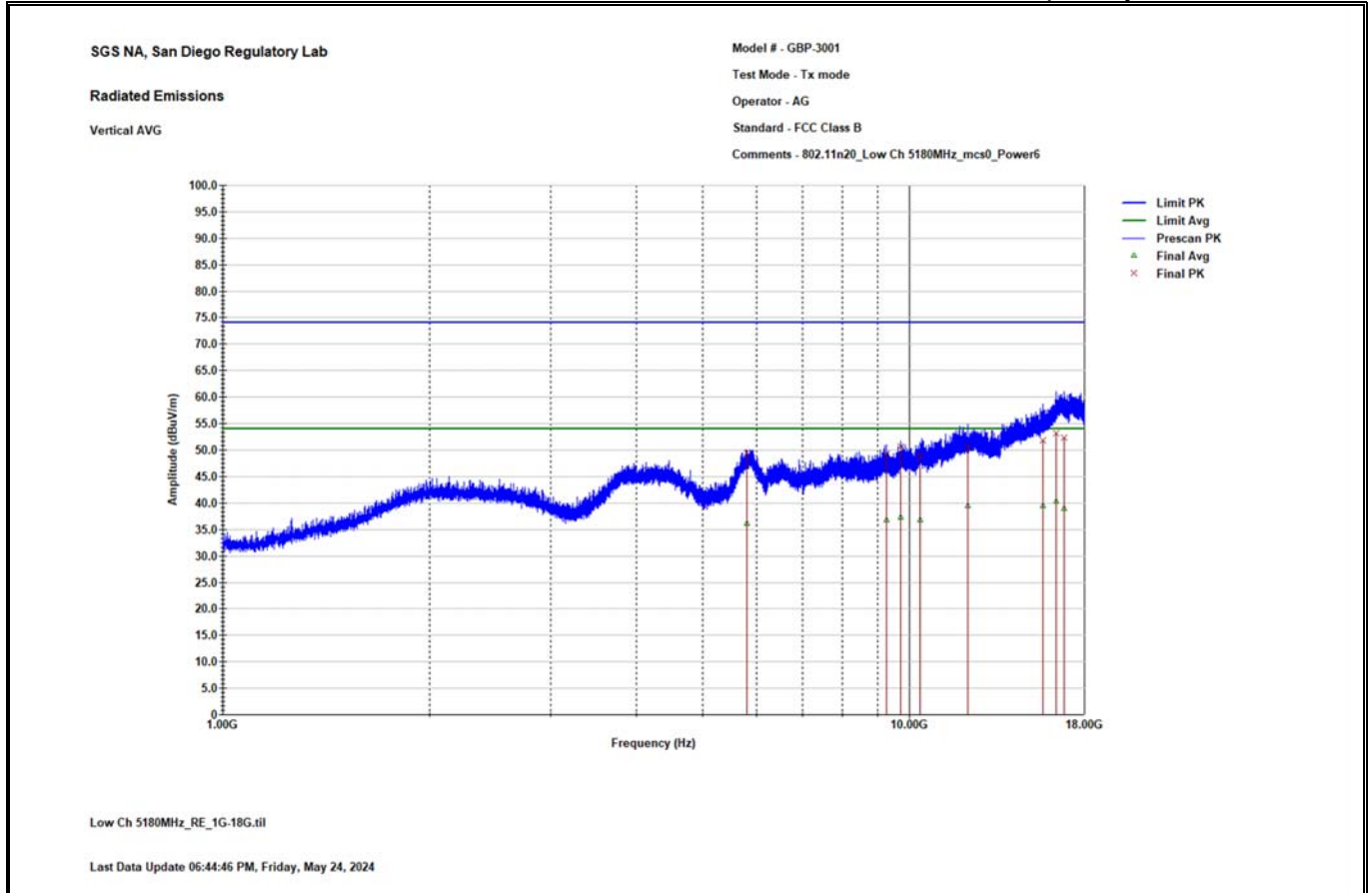
UNII-1 802.11n HT20 mode– 30MHz to 1GHz Worst-Case High Channel 5240MHz – Horizontal polarity



Quasi-Peak Data

Freq. (MHz)	Final QP (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
152.975	12.51	-26.87	-31.01	43.52	145	278
322.439	17.82	-22.81	-28.2	46.02	100	243
351.927	19.5	-20.9	-26.52	46.02	100	125
399.992	29.19	-18.6	-16.83	46.02	100	250
666.704	42.59	-12.77	-3.43	46.02	100	44
933.35	41.18	-8.41	-4.84	46.02	138	131

UNII-1 802.11n HT20 mode – 1GHz to 18GHz Low Channel 5180MHz – Vertical polarity



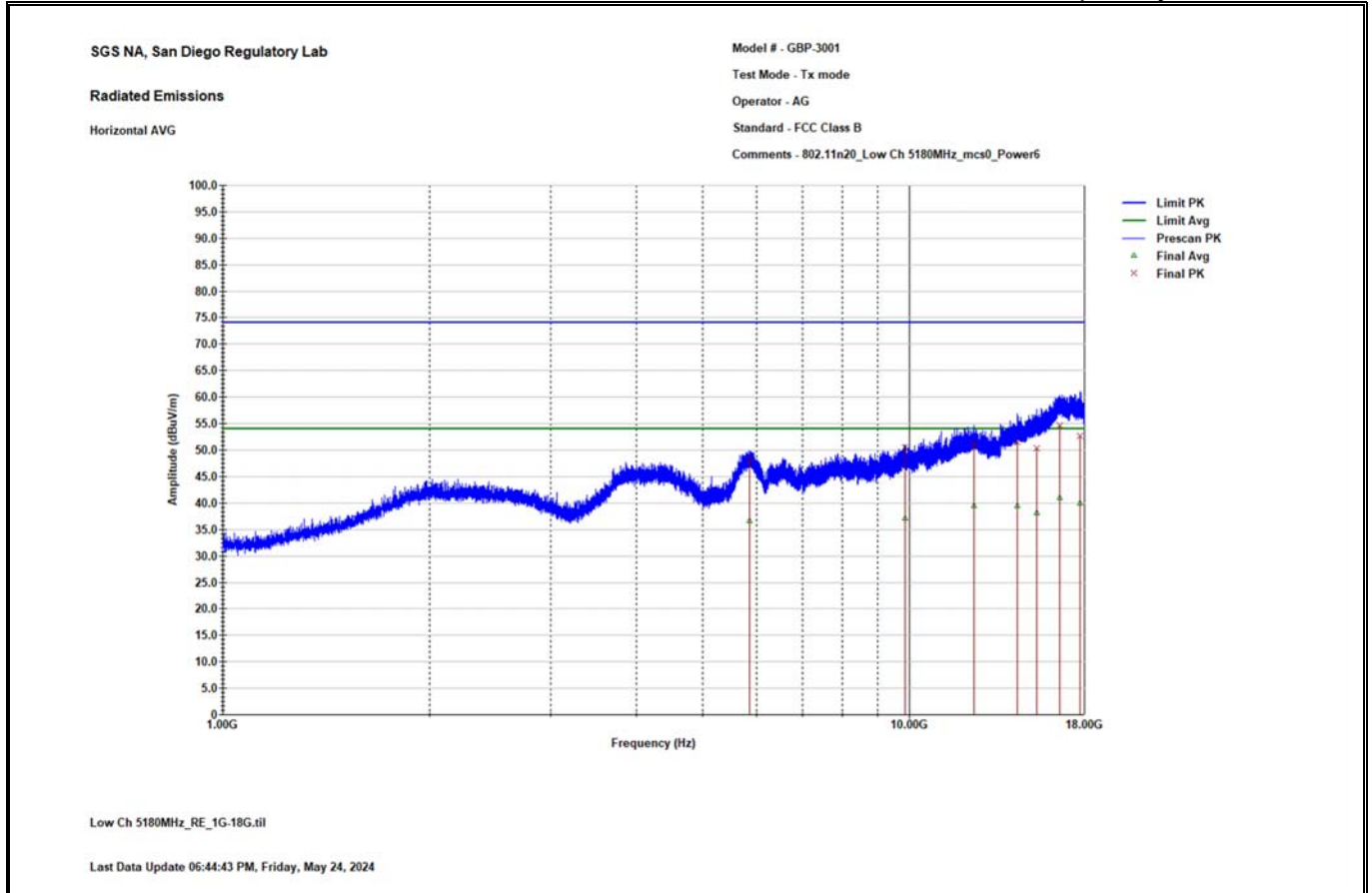
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5793.575	49.45	9.24	-24.55	74	304	317
9259.875	49.27	17.84	-24.73	74	358	231
9718.875	50.63	18.91	-23.37	74	179	124
10373.7	49.05	20.34	-24.95	74	273	343
12174.95	50.67	25.63	-23.33	74	179	284
15671.85	51.77	30.05	-22.23	74	186	178
16389.25	53.08	32.6	-20.92	74	202	13
16800.23	52.39	33.54	-21.61	74	303	310

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5793.575	36.24	9.24	-17.76	54	304	317
9259.875	36.86	17.84	-17.14	54	358	231
9718.875	37.25	18.91	-16.75	54	179	124
10373.7	36.85	20.34	-17.15	54	273	343
12174.95	39.45	25.63	-14.55	54	179	284
15671.85	39.49	30.05	-14.51	54	186	178
16389.25	40.4	32.6	-13.6	54	202	13
16800.23	39	33.54	-15	54	303	310

UNII-1 802.11n HT20 mode – 1GHz to 18GHz Low Channel 5180MHz – Horizontal polarity



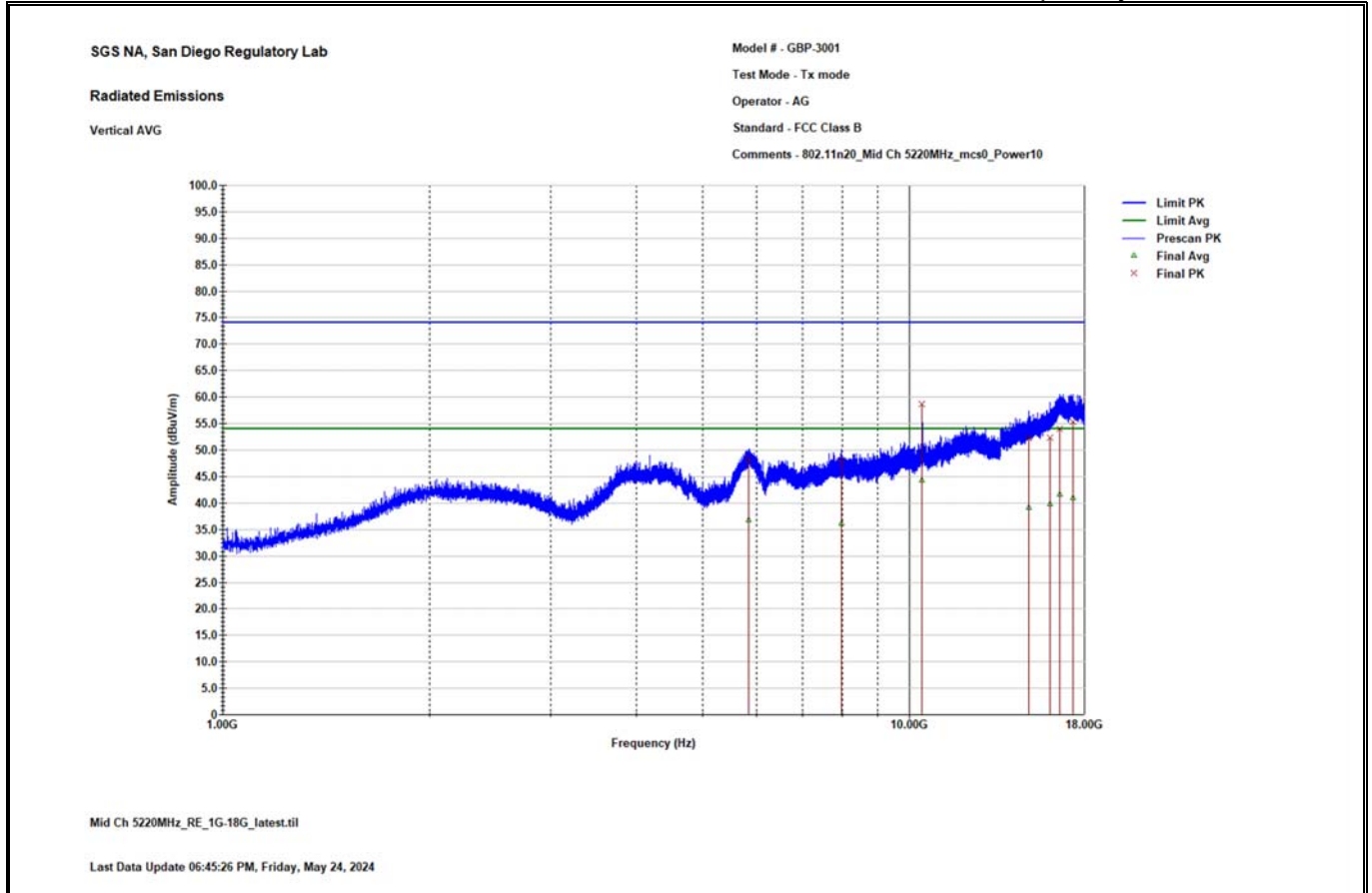
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5848.825	48.29	9.55	-25.71	74	150	284
9870.175	50.46	19.05	-23.54	74	156	93
12426.13	51.3	25.95	-22.7	74	309	16
14391.75	51.56	27.14	-22.44	74	193	191
15325.9	50.36	29.23	-23.64	74	150	380
16543.52	54.72	33.29	-19.28	74	255	147
17738.63	52.61	31.89	-21.39	74	278	27

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5848.825	36.64	9.55	-17.36	54	150	284
9870.175	37.1	19.05	-16.9	54	156	93
12426.13	39.57	25.95	-14.43	54	309	16
14391.75	39.43	27.14	-14.57	54	193	191
15325.9	38.2	29.23	-15.8	54	150	380
16543.52	40.93	33.29	-13.07	54	255	147
17738.63	40.08	31.89	-13.92	54	278	27

UNII-1 802.11n HT20 mode – 1GHz to 18GHz Mid Channel 5220MHz – Vertical polarity



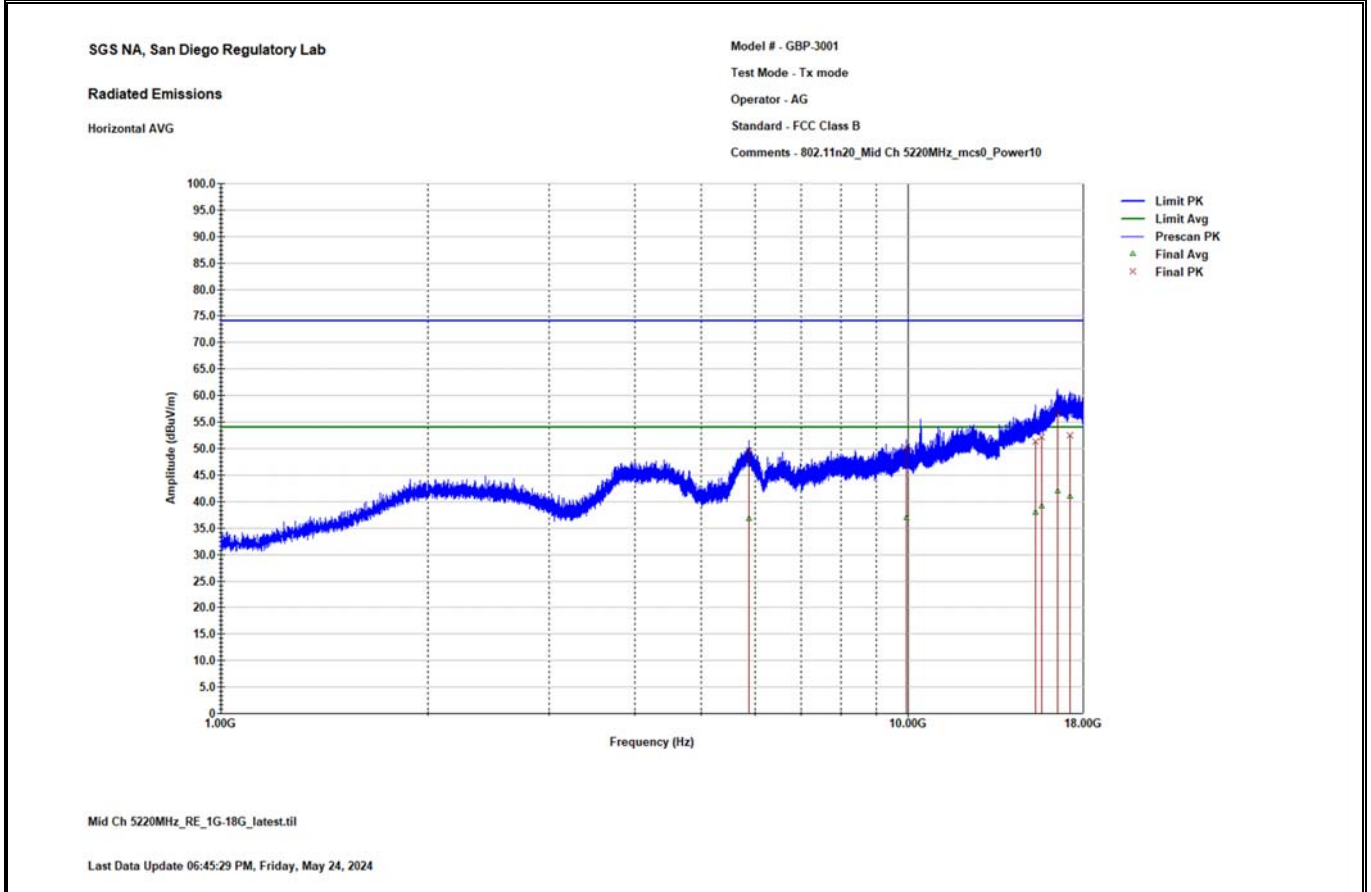
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5836.5	48.36	9.46	-25.64	74	210	351
7967.875	48.21	14.85	-25.79	74	400	340
10446.05	58.66	20.48	-15.34	74	150	157
14917.05	52.36	28.27	-21.64	74	241	31
16048.4	52.39	31.2	-21.61	74	264	69
16548.2	54.06	33.31	-19.94	74	171	-13
17333.17	55.27	32.43	-18.73	74	388	365

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5836.5	36.75	9.46	-17.25	54	210	351
7967.875	36.2	14.85	-17.8	54	400	340
10446.05	44.36	20.48	-9.64	54	150	157
14917.05	39.12	28.27	-14.88	54	241	31
16048.4	39.81	31.2	-14.19	54	264	69
16548.2	41.67	33.31	-12.33	54	171	-13
17333.17	41.03	32.43	-12.97	54	388	365

UNII-1 802.11n HT20 mode – 1GHz to 18GHz Mid Channel 5220MHz – Horizontal polarity



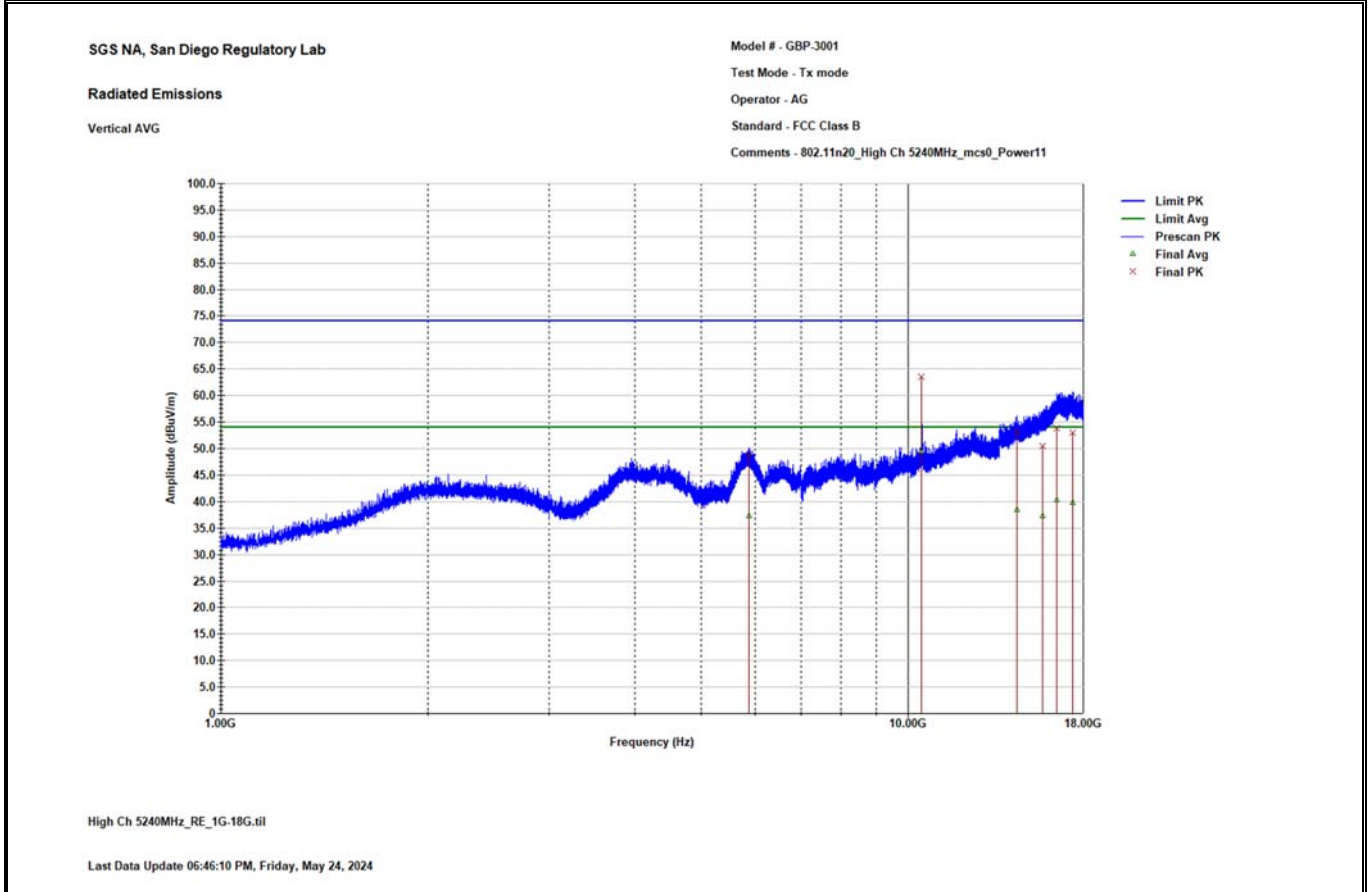
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5873.475	49.75	9.72	-24.25	74	309	358
9944.125	49.98	19.46	-24.02	74	224	135
15355.65	51.26	29.31	-22.74	74	248	189
15660	52.19	30.02	-21.81	74	340	132
16499.75	56.66	33.1	-17.34	74	332	343
17215.45	52.47	32.76	-21.53	74	217	161

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5873.475	36.83	9.72	-17.17	54	309	358
9944.125	37.01	19.46	-16.99	54	224	135
15355.65	38.04	29.31	-15.96	54	248	189
15660	39.17	30.02	-14.83	54	340	132
16499.75	42.04	33.1	-11.96	54	332	343
17215.45	41.02	32.76	-12.98	54	217	161

UNII-1 802.11n HT20 mode – 1GHz to 18GHz High Channel 5240MHz – Vertical polarity



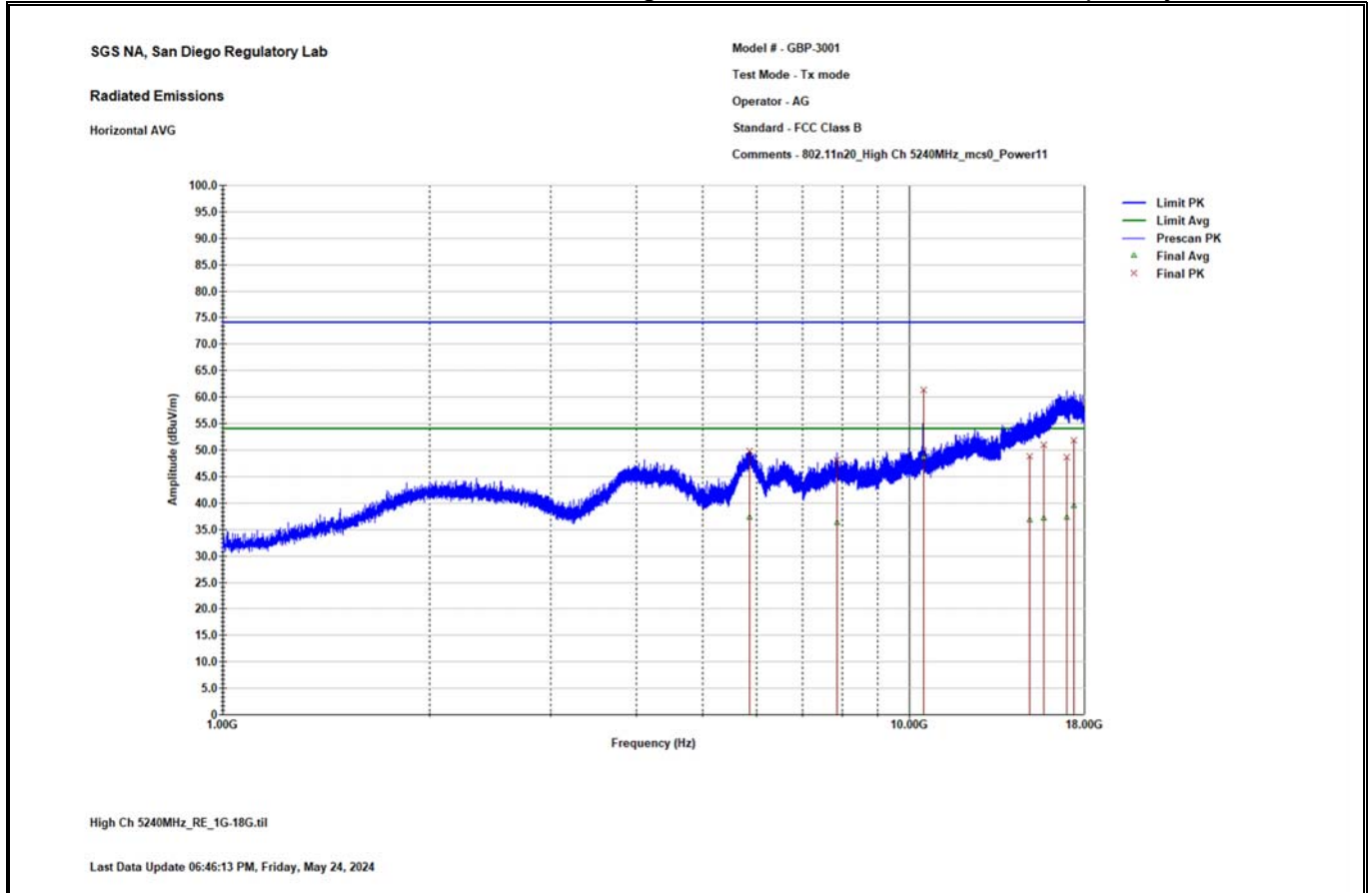
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5864.975	49.03	9.66	-24.97	74	295	61
10480.48	63.55	20.53	-10.45	74	163	148
14408.33	53.26	27.17	-20.74	74	400	326
15720	50.49	30.15	-23.51	74	218	134
16492.52	53.79	33.07	-20.21	74	325	173
17374.82	53	32.32	-21	74	400	152

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5864.975	37.35	9.66	-16.65	54	295	61
10480.48	49.56	20.53	-4.44	54	163	148
14408.33	38.53	27.17	-15.47	54	400	326
15720	37.38	30.15	-16.62	54	218	134
16492.52	40.32	33.07	-13.68	54	325	173
17374.82	39.78	32.32	-14.22	54	400	152

UNII-1 802.11n HT20 mode – 1GHz to 18GHz High Channel 5240MHz – Horizontal polarity



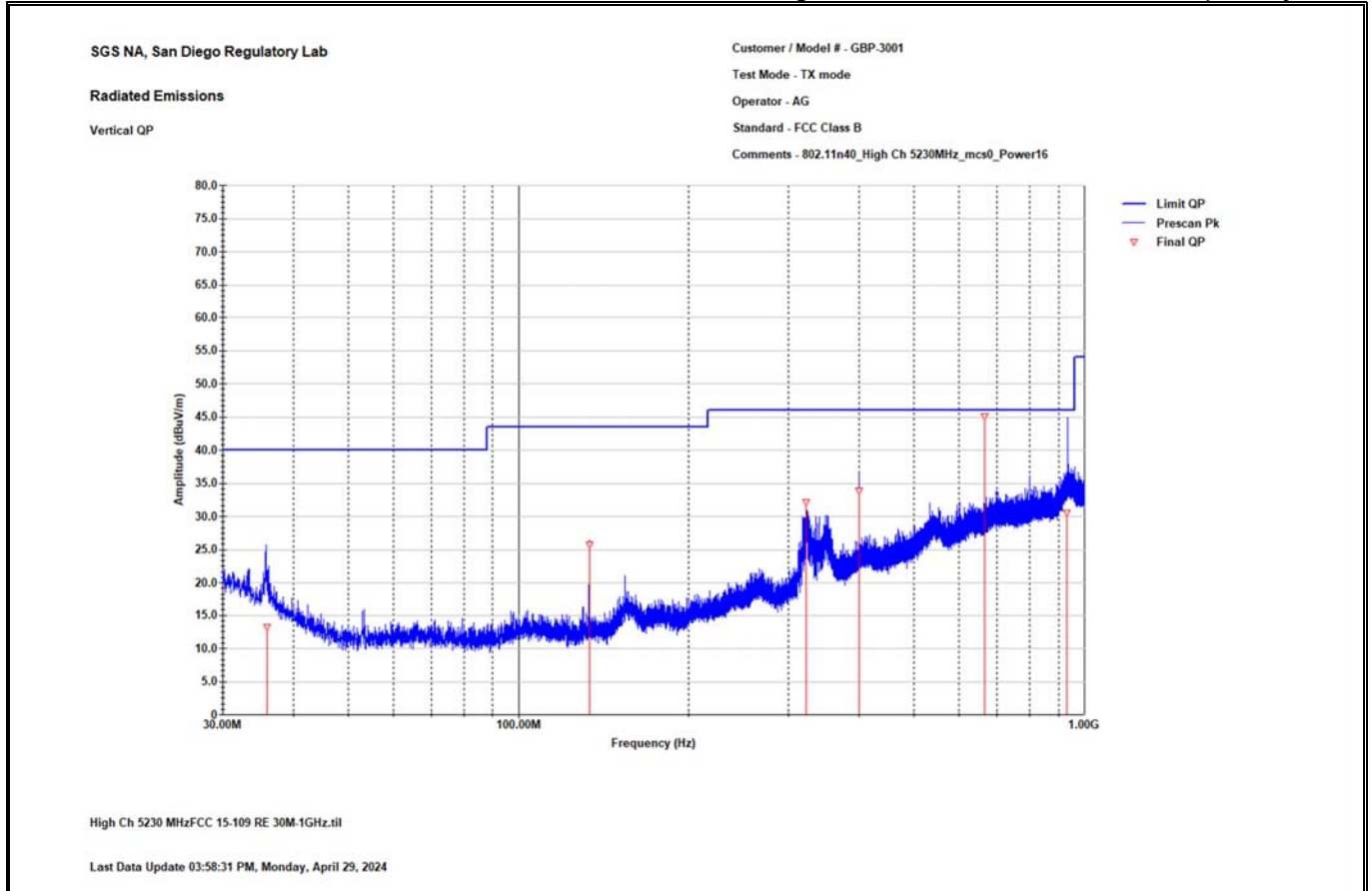
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5853.925	49.82	9.58	-24.18	74	347	118
7855.25	48.2	14.58	-25.8	74	263	-2
10481.33	61.25	20.53	-12.75	74	400	143
14995.68	48.75	28.46	-25.25	74	363	368
15720	50.98	30.15	-23.02	74	259	232
16988.08	48.72	33.16	-25.28	74	186	129
17386.3	51.83	32.29	-22.17	74	186	257

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5853.925	37.35	9.58	-16.65	54	347	118
7855.25	36.27	14.58	-17.73	54	263	-2
10481.33	48.61	20.53	-5.39	54	400	143
14995.68	36.9	28.46	-17.1	54	363	368
15720	37.22	30.15	-16.78	54	259	232
16988.08	37.27	33.16	-16.73	54	186	129
17386.3	39.53	32.29	-14.47	54	186	257

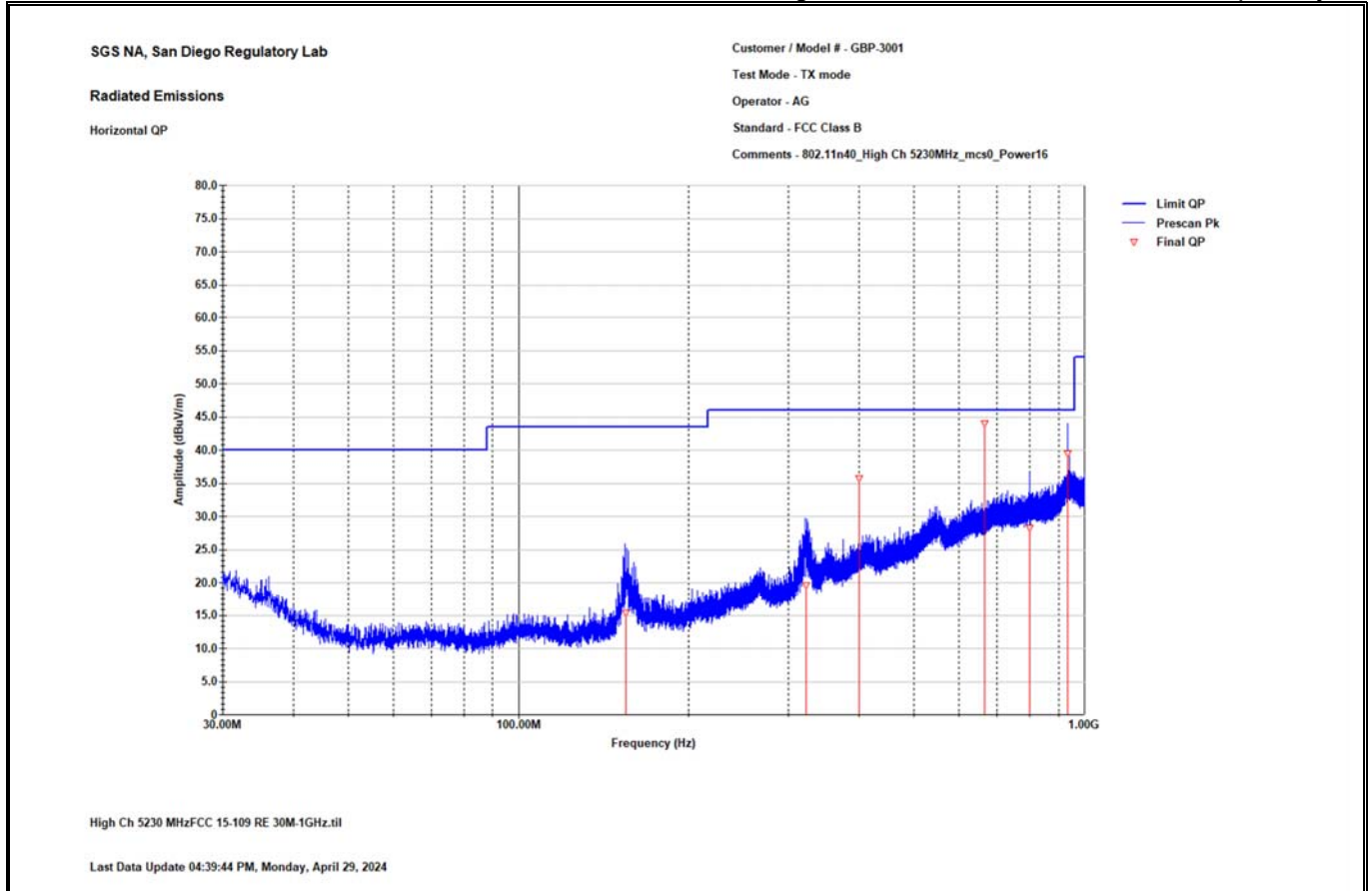
UNII-1 802.11n HT40 mode– 30MHz to 1GHz Worst-Case High Channel 5230MHz – Vertical polarity



Quasi-Peak Data

Freq. (MHz)	Final QP (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
35.95	13.19	-24.67	-26.81	40	161	49
133.328	25.71	-29.74	-17.81	43.52	100	305
322.547	32.2	-22.81	-13.82	46.02	146	80
400.022	33.9	-18.6	-12.12	46.02	100	347
666.686	45.07	-12.77	-0.95	46.02	203	380
930.704	30.59	-8.48	-15.43	46.02	338	110

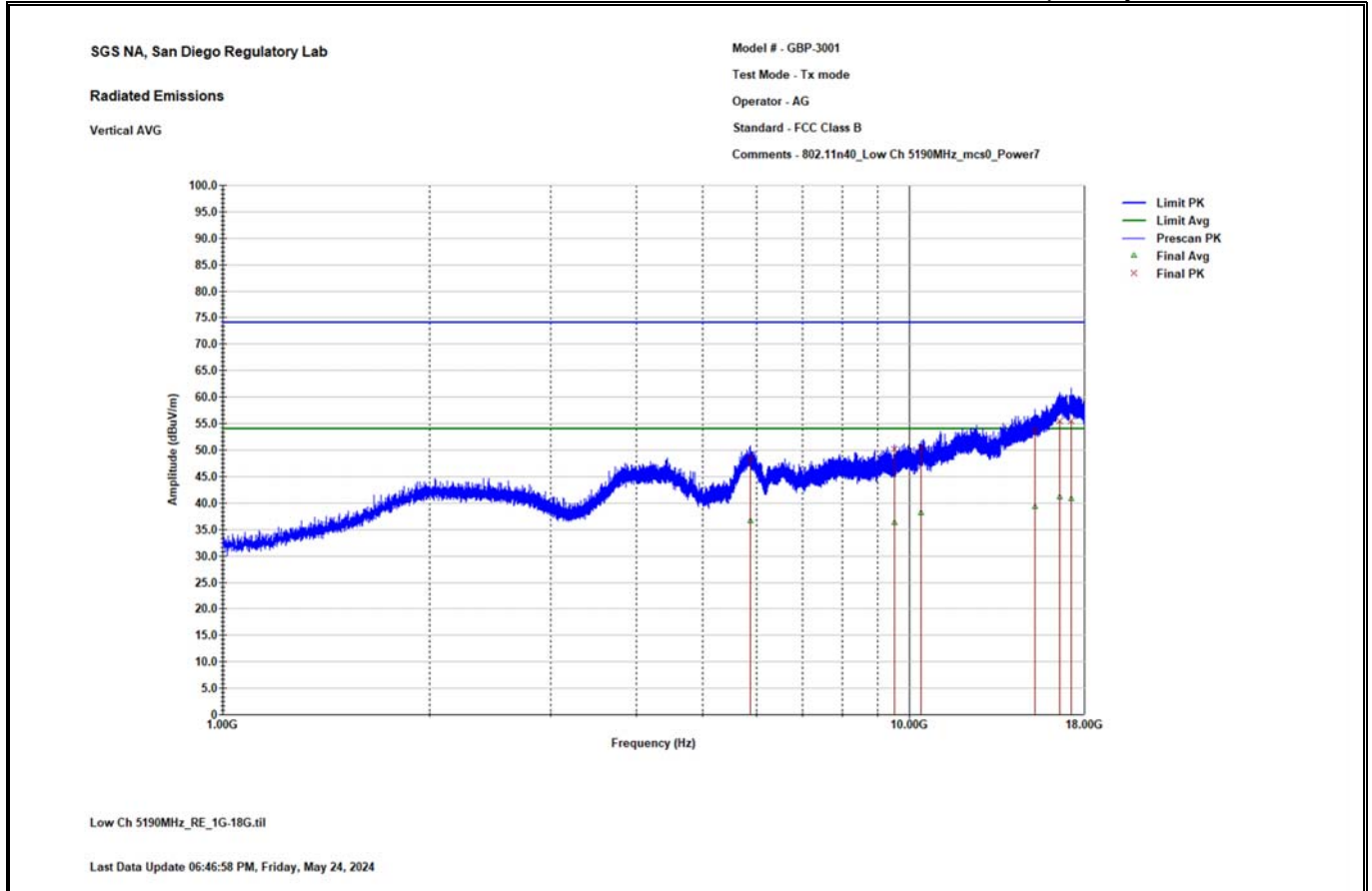
UNII-1 802.11n HT40 mode– 30MHz to 1GHz Worst-Case High Channel 5230MHz – Horizontal polarity



Quasi-Peak Data

Freq. (MHz)	Final QP (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
154.553	15.31	-26.48	-28.21	43.52	400	263
321.877	19.6	-22.82	-26.42	46.02	311	228
400.022	35.75	-18.6	-10.27	46.02	100	49
666.707	44.04	-12.77	-1.98	46.02	114	139
799.07	28.26	-11.39	-17.76	46.02	312	174
933.374	39.45	-8.41	-6.57	46.02	137	159

UNII-1 802.11n HT40 mode – 1GHz to 18GHz Low Channel 5190MHz – Vertical polarity



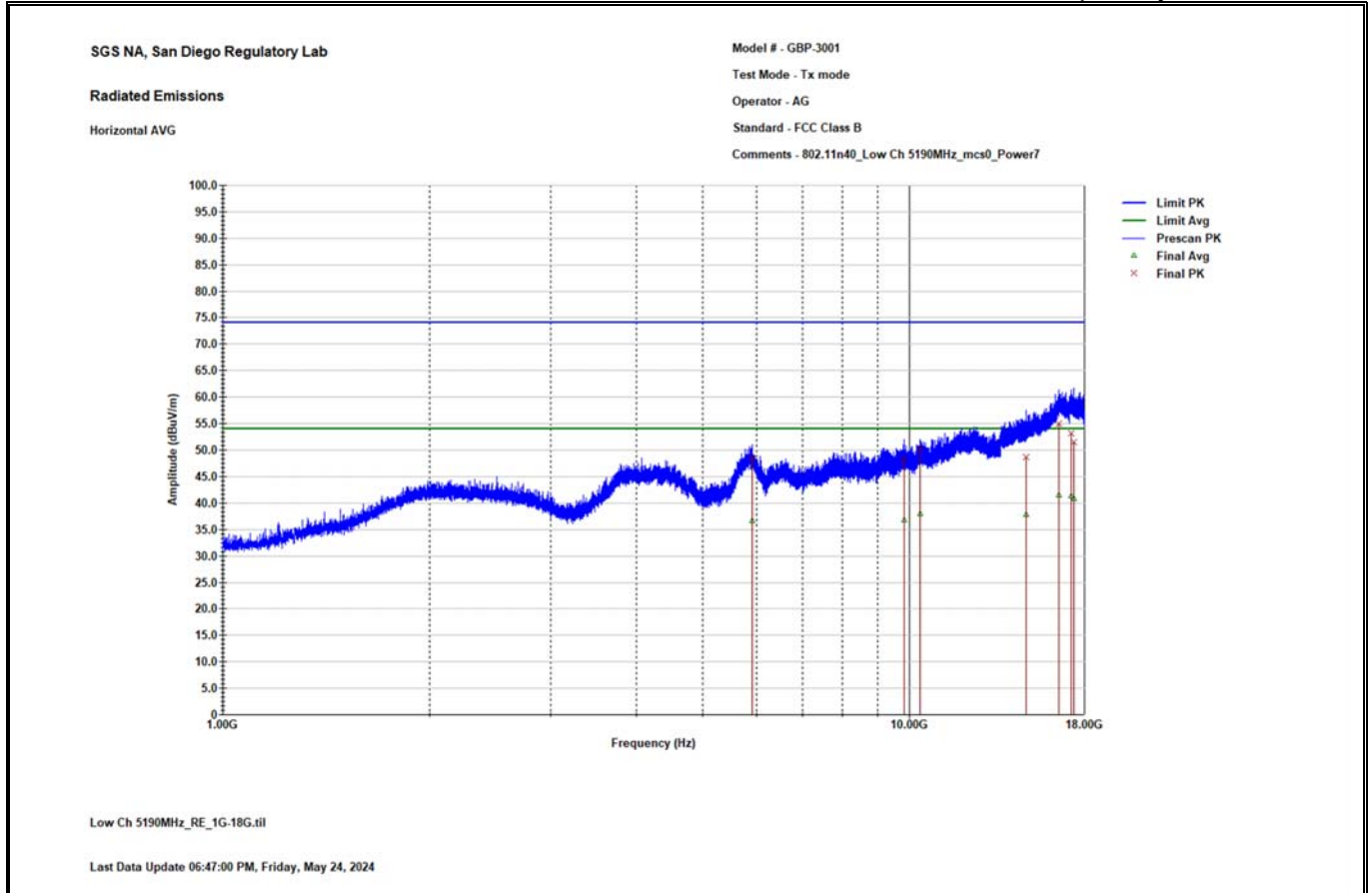
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5879	48.58	9.76	-25.42	74	226	152
9526.35	50.18	18.58	-23.82	74	210	121
10404.83	50.53	20.41	-23.47	74	295	153
15254.93	53.88	29.02	-20.12	74	295	249
16586.87	55.56	33.48	-18.44	74	163	104
17211.63	55.56	32.77	-18.44	74	225	317

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5879	36.69	9.76	-17.31	54	226	152
9526.35	36.39	18.58	-17.61	54	210	121
10404.83	38.17	20.41	-15.83	54	295	153
15254.93	39.34	29.02	-14.66	54	295	249
16586.87	41.16	33.48	-12.84	54	163	104
17211.63	40.87	32.77	-13.13	54	225	317

UNII-1 802.11n HT40 mode – 1GHz to 18GHz Low Channel 5190MHz – Horizontal polarity



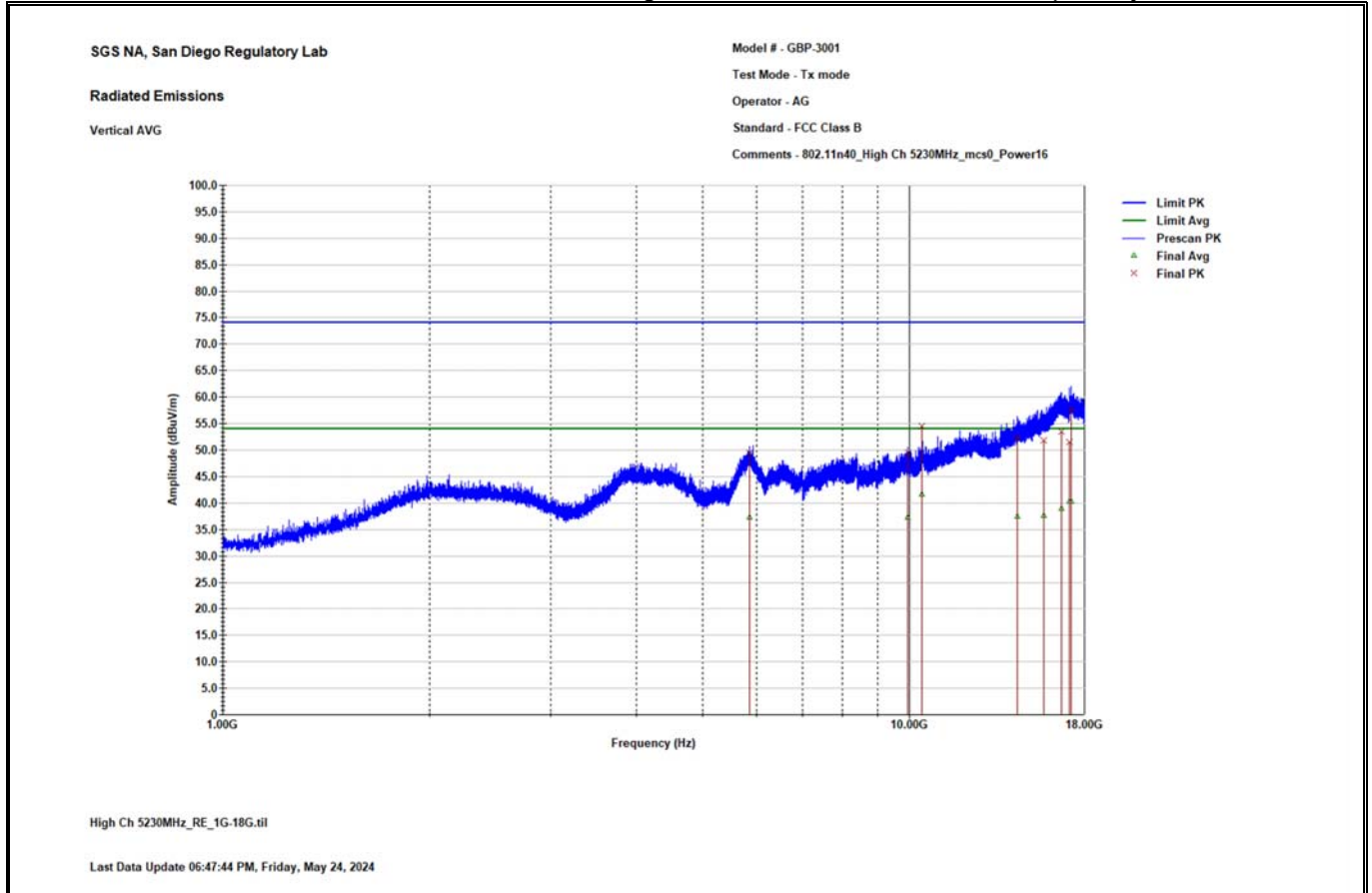
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5904.925	48.43	9.88	-25.57	74	325	128
9835.532	48.37	19.1	-25.63	74	178	339
10388.25	50.38	20.38	-23.62	74	171	214
14821.43	48.75	28.05	-25.25	74	301	103
16506.13	55.06	33.13	-18.94	74	150	187
17201.42	53.08	32.8	-20.92	74	186	181
17350.17	51.47	32.39	-22.53	74	171	380

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5904.925	36.6	9.88	-17.4	54	325	128
9835.532	36.9	19.1	-17.1	54	178	339
10388.25	38.05	20.38	-15.95	54	171	214
14821.43	37.82	28.05	-16.18	54	301	103
16506.13	41.48	33.13	-12.52	54	150	187
17201.42	41.32	32.8	-12.68	54	186	181
17350.17	40.82	32.39	-13.18	54	171	380

UNII-1 802.11n HT40 mode – 1GHz to 18GHz High Channel 5230MHz – Vertical polarity



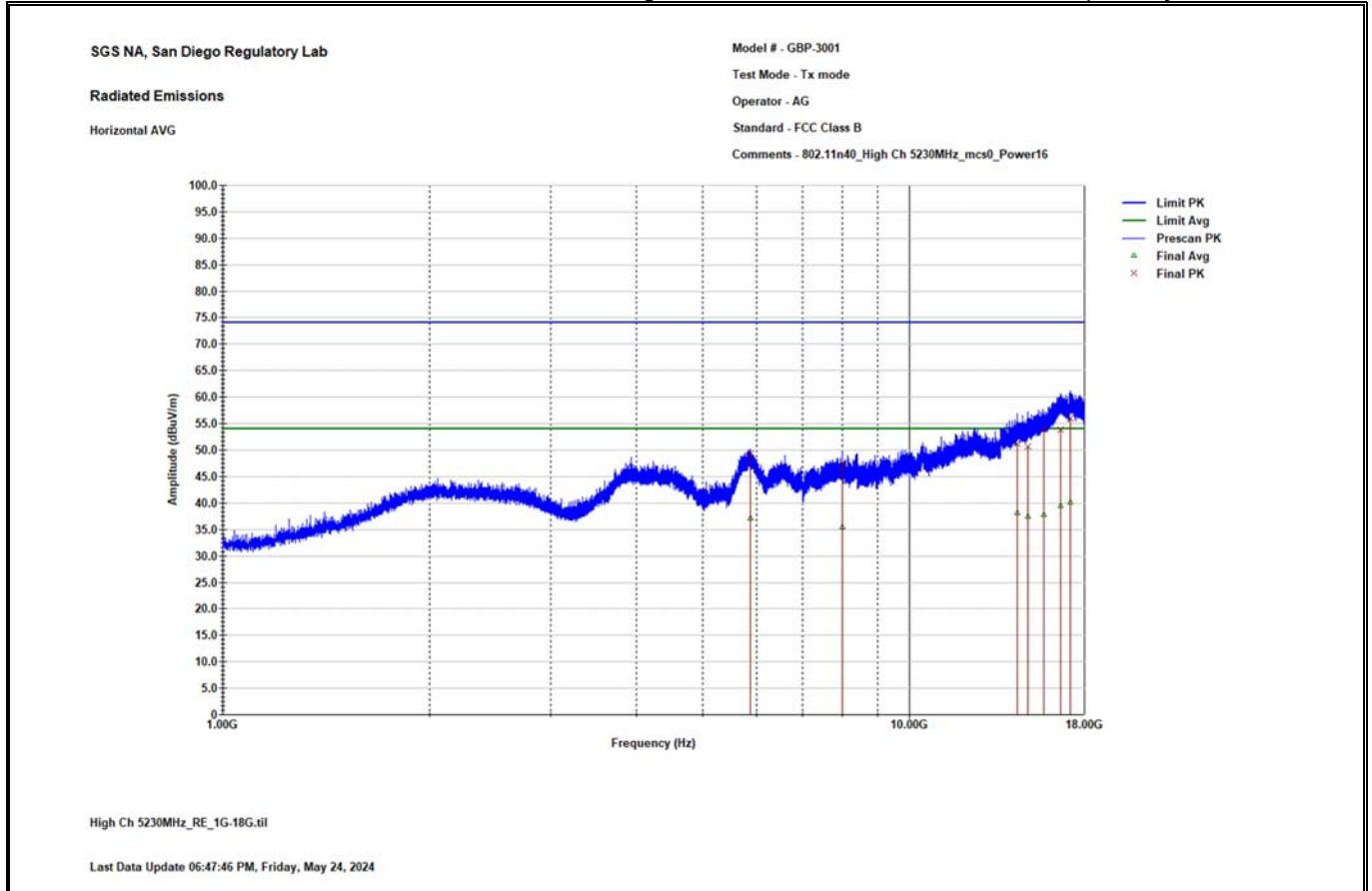
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5848.825	49.56	9.55	-24.44	74	328	213
9957.3	49.46	19.53	-24.54	74	319	167
10439.67	54.55	20.47	-19.45	74	171	147
14354.78	52.4	27.13	-21.6	74	171	362
15690	51.87	30.09	-22.13	74	318	325
16657.85	53.4	33.62	-20.6	74	319	214
17128.33	51.52	32.78	-22.48	74	400	64
17202.7	57.63	32.8	-16.37	74	381	215

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5848.825	37.36	9.55	-16.64	54	328	213
9957.3	37.34	19.53	-16.66	54	319	167
10439.67	41.7	20.47	-12.3	54	171	147
14354.78	37.57	27.13	-16.43	54	171	362
15690	37.58	30.09	-16.42	54	318	325
16657.85	38.98	33.62	-15.02	54	319	214
17128.33	40.25	32.78	-13.75	54	400	64
17202.7	40.25	32.8	-13.75	54	381	215

UNII-1 802.11n HT40 mode – 1GHz to 18GHz High Channel 5230MHz – Horizontal polarity



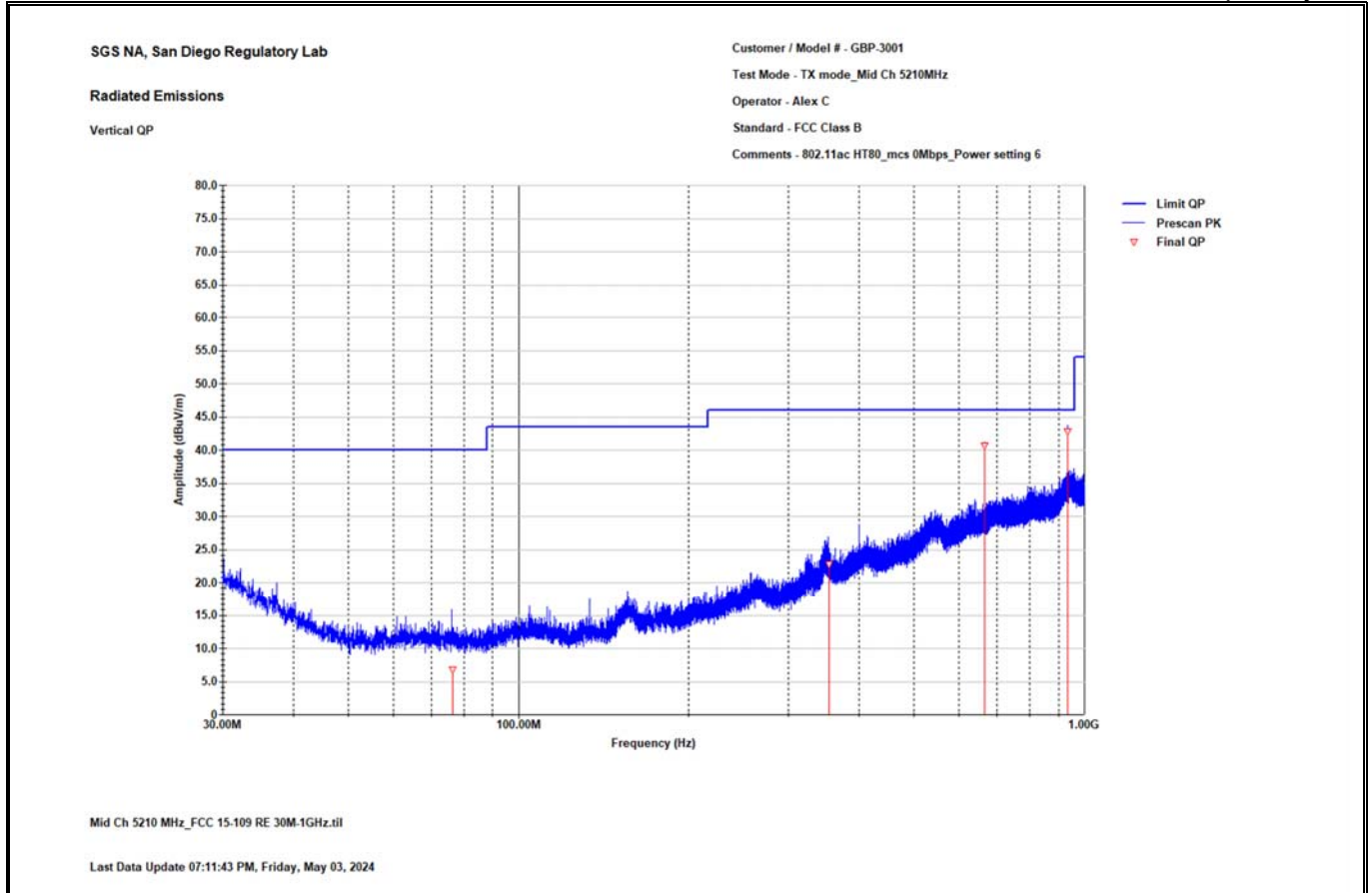
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5870.925	49.27	9.7	-24.73	74	202	247
7988.275	47.52	14.92	-26.48	74	171	210
14387.5	51.08	27.14	-22.92	74	278	336
14877.1	50.71	28.17	-23.29	74	316	-20
15690	53.79	30.09	-20.21	74	294	293
16594.95	53.9	33.51	-20.1	74	210	285
17143.2	55.96	32.78	-18.04	74	186	148

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5870.925	37.22	9.7	-16.78	54	202	247
7988.275	35.51	14.92	-18.49	54	171	210
14387.5	38.23	27.14	-15.77	54	278	336
14877.1	37.45	28.17	-16.55	54	316	-20
15690	37.87	30.09	-16.13	54	294	293
16594.95	39.41	33.51	-14.59	54	210	285
17143.2	40.19	32.78	-13.81	54	186	148

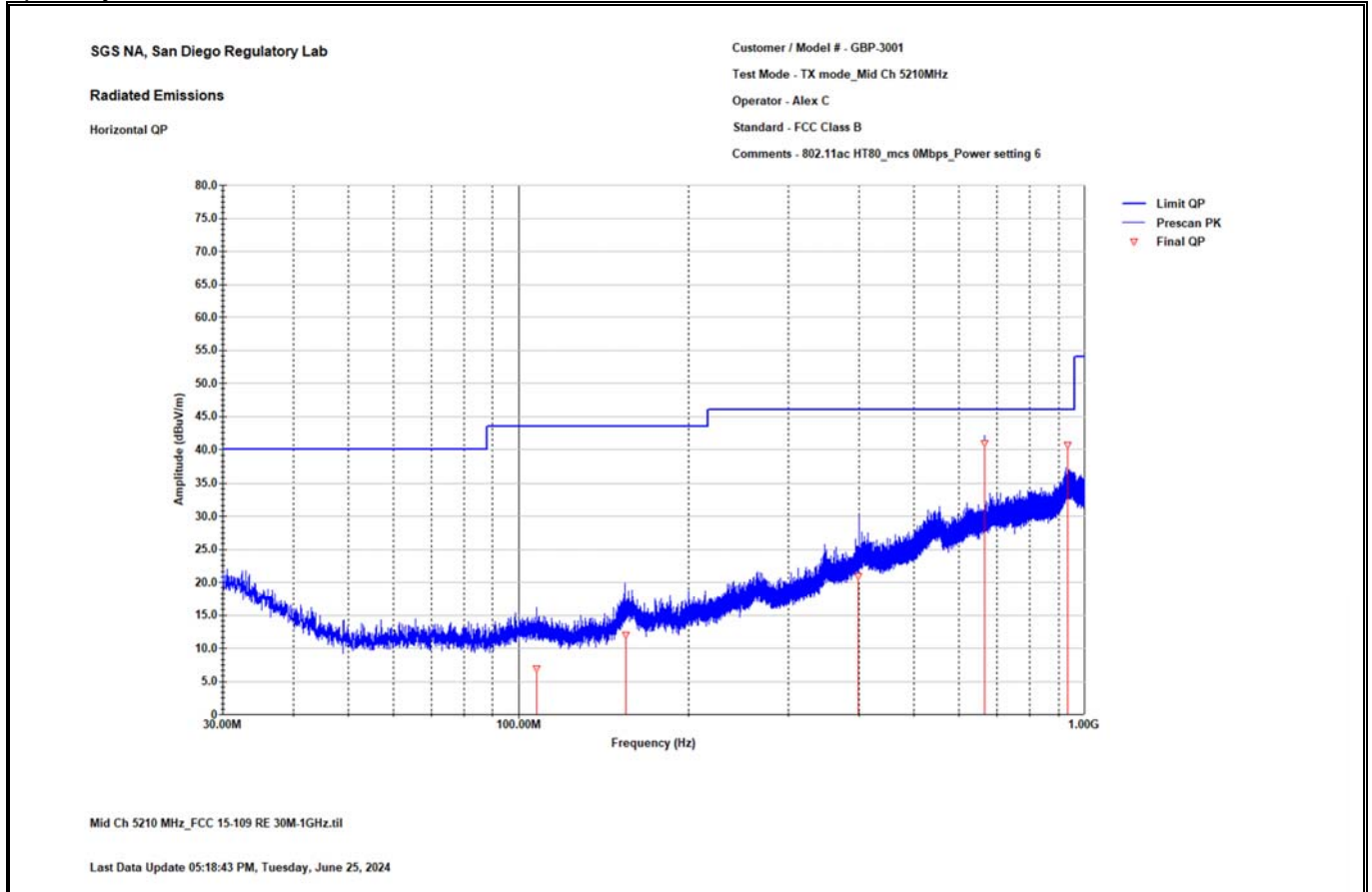
UNII-1 802.11ac VHT80 mode– 30MHz to 1GHz Worst-Case Mid Channel 5210MHz – Vertical polarity



Quasi-Peak Data

Freq. (MHz)	Final QP (dBuV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBuV/m)	Ant. Height (cm)	Azimuth (deg.)
76.487	6.79	-30.43	-33.21	40	400	295
353.517	22.76	-20.8	-23.26	46.02	100	73
666.716	40.66	-12.77	-5.36	46.02	249	345
933.368	42.78	-8.41	-3.24	46.02	100	315

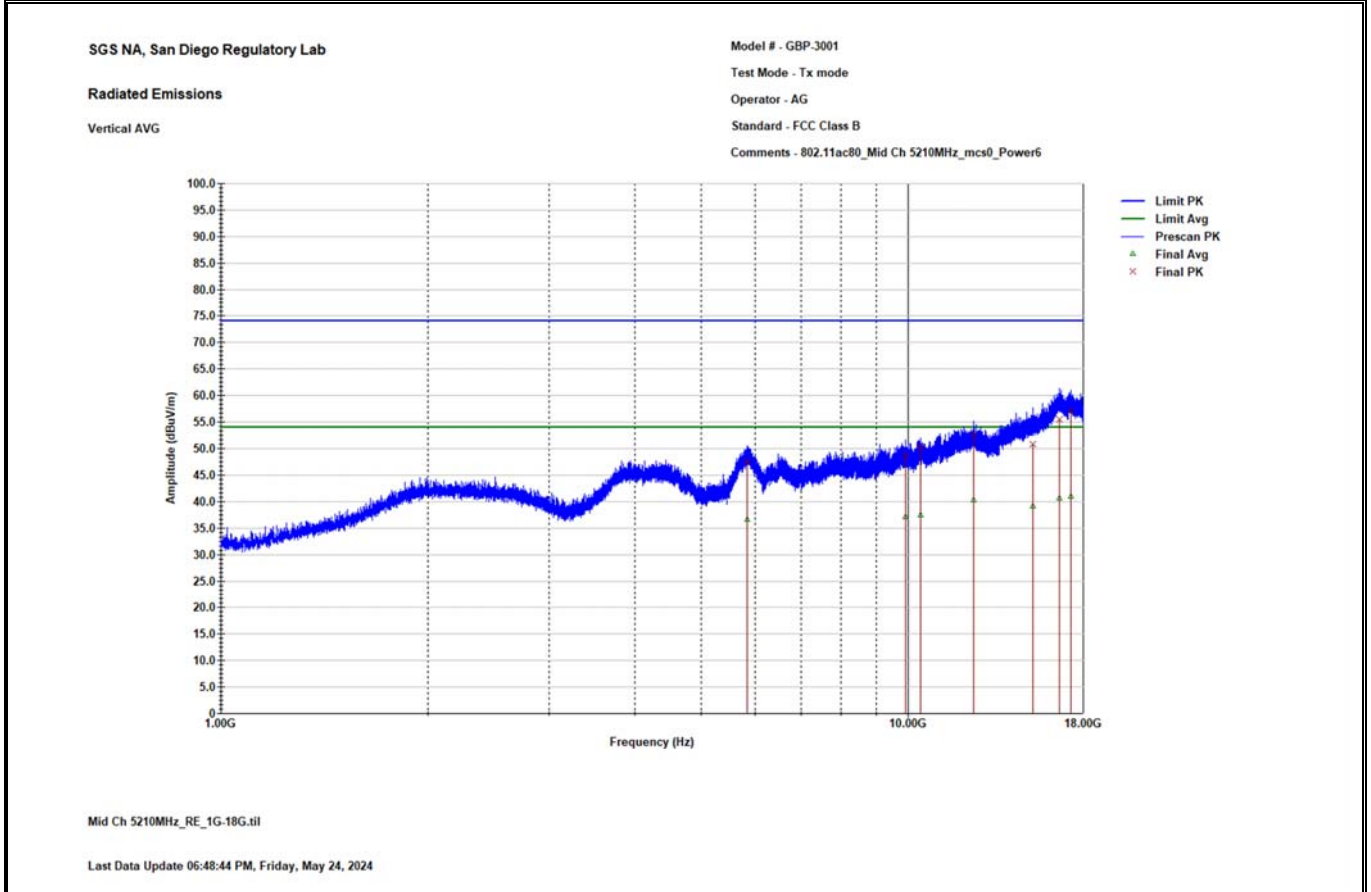
UNII-1 802.11ac VHT80 mode– 30MHz to 1GHz Worst-Case Mid Channel 5210MHz – Horizontal polarity



Quasi-Peak Data

Freq. (MHz)	Final QP (dBuV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBuV/m)	Ant. Height (cm)	Azimuth (deg.)
107.519	6.95	-29.47	-36.57	43.52	272	139
154.853	11.97	-26.41	-31.55	43.52	248	365
398.036	20.86	-18.71	-25.16	46.02	400	112
665.791	40.94	-12.81	-5.08	46.02	264	380
933.368	40.65	-8.41	-5.37	46.02	200	137

UNII-1 802.11ac VHT80 mode-1GHz to 18GHz Mid Channel 5210MHz – Vertical polarity



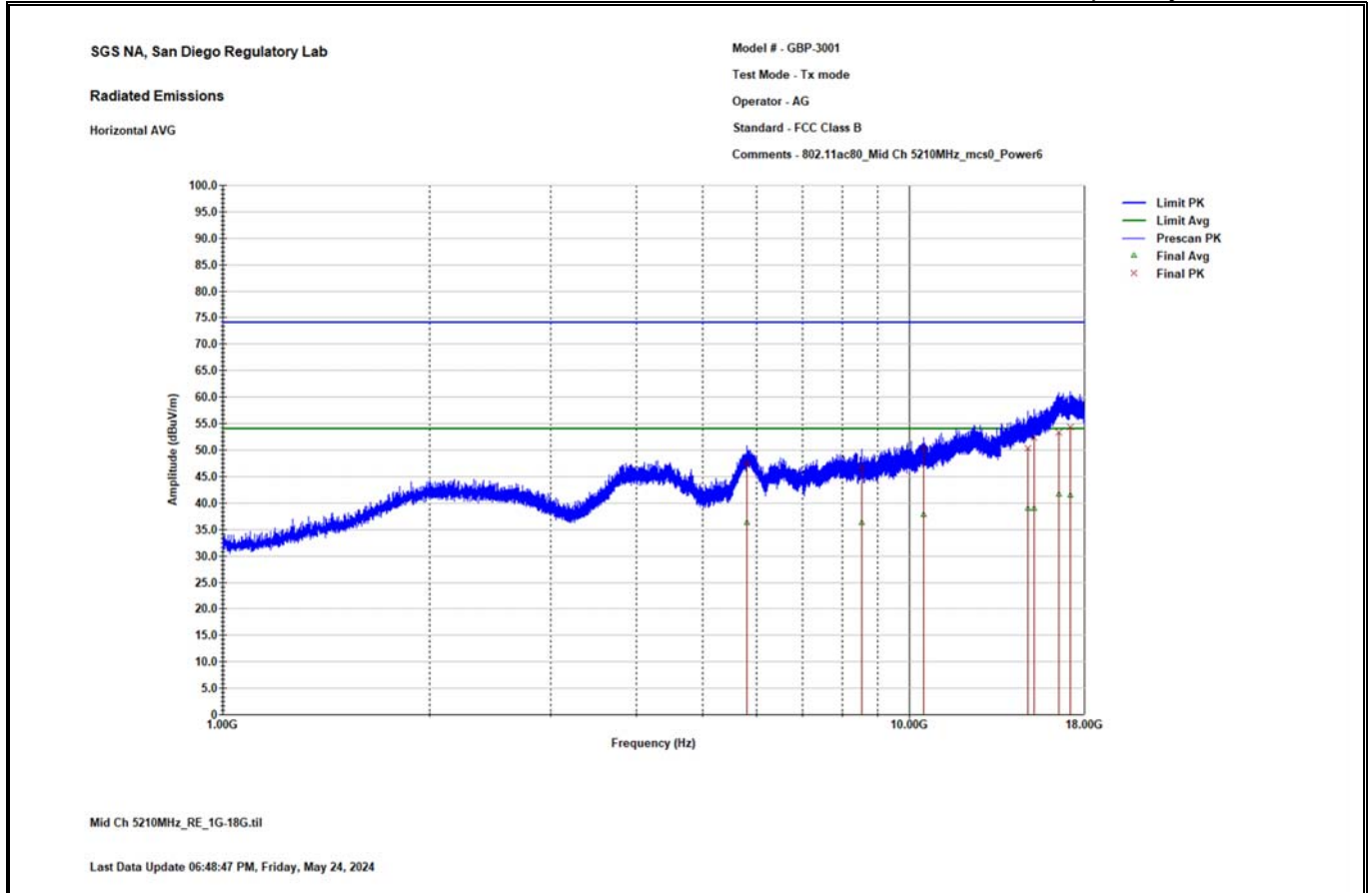
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5838.625	47.64	9.48	-26.36	74	202	133
9907.575	48.85	19.26	-25.15	74	388	357
10437.13	50.26	20.46	-23.74	74	295	114
12446.53	52.9	25.97	-21.1	74	279	246
15197.55	50.89	28.85	-23.11	74	310	332
16625.98	55.41	33.63	-18.59	74	171	377
17269	57.17	32.61	-16.83	74	279	299

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5838.625	36.59	9.48	-17.41	54	202	133
9907.575	37.22	19.26	-16.78	54	388	357
10437.13	37.54	20.46	-16.46	54	295	114
12446.53	40.39	25.97	-13.61	54	279	246
15197.55	39.25	28.85	-14.75	54	310	332
16625.98	40.63	33.63	-13.37	54	171	377
17269	40.98	32.61	-13.02	54	279	299

UNII-1 802.11ac VHT80 mode-1GHz to 18GHz Mid Channel 5210MHz – Horizontal polarity



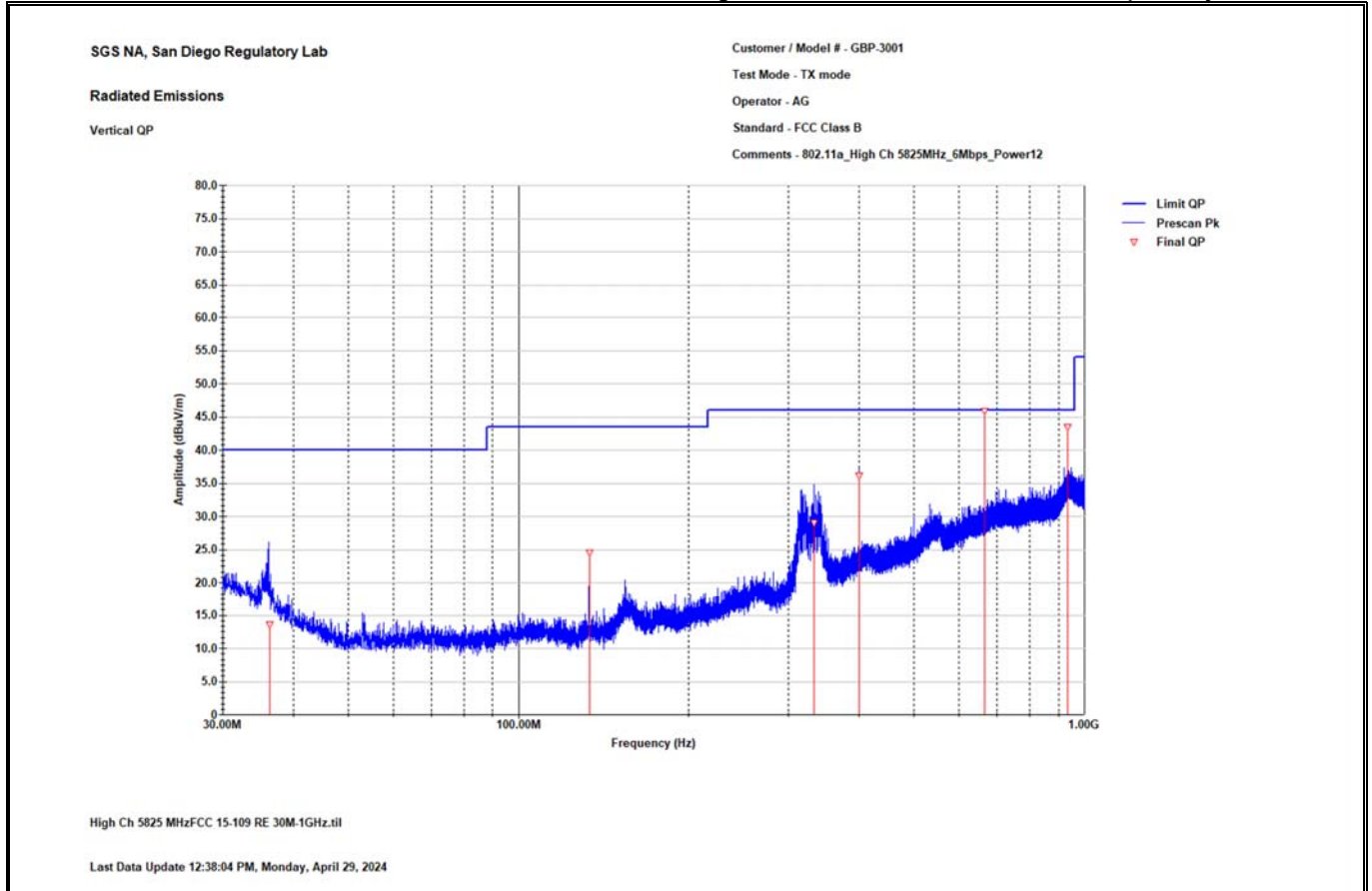
Peak Data

Freq. (MHz)	Final Pk (dBuV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBuV/m)	Ant. Height (cm)	Azimuth (deg.)
5798.675	47.71	9.26	-26.29	74	255	7
8518.675	46.8	16.13	-27.2	74	316	357
10484.3	50.31	20.54	-23.69	74	216	107
14892.82	50.24	28.21	-23.76	74	385	374
15197.12	52.34	28.84	-21.66	74	279	80
16508.68	53.32	33.14	-20.68	74	163	53
17183.15	54.24	32.8	-19.76	74	316	360

Average Data

Freq. (MHz)	Final Avg (dBuV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBuV/m)	Ant. Height (cm)	Azimuth (deg.)
5798.675	36.36	9.26	-17.64	54	255	7
8518.675	36.32	16.13	-17.68	54	316	357
10484.3	37.83	20.54	-16.17	54	216	107
14892.82	39.02	28.21	-14.98	54	385	374
15197.12	39.06	28.84	-14.94	54	279	80
16508.68	41.65	33.14	-12.35	54	163	53
17183.15	41.42	32.8	-12.58	54	316	360

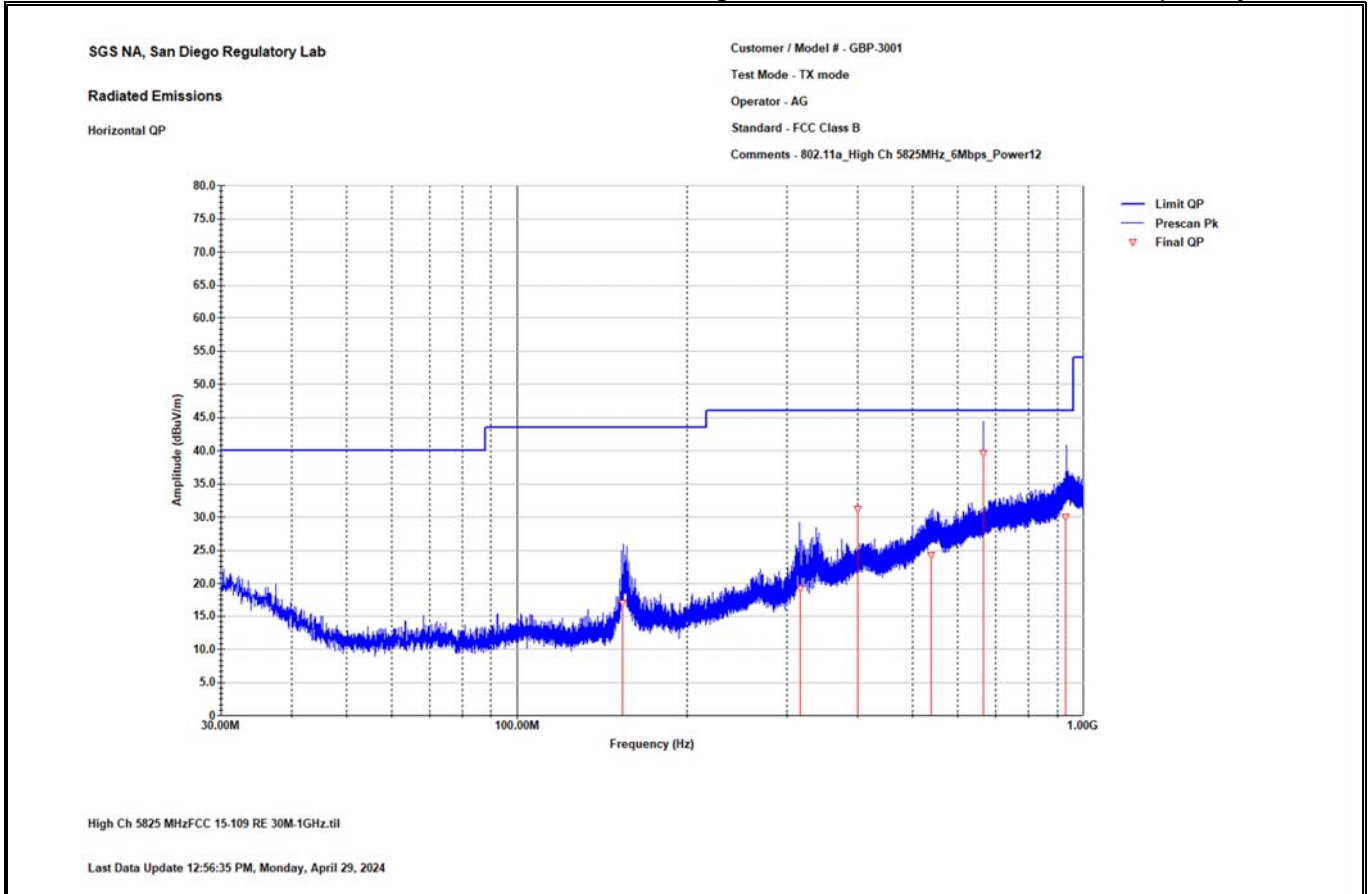
UNII-3 802.11a mode– 30MHz to 1GHz Worst-Case High Channel 5825MHz – Vertical polarity



Quasi-Peak Data

Freq. (MHz)	Final QP (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
36.255	13.57	-24.86	-26.43	40	146	30
133.328	24.53	-29.74	-18.99	43.52	100	269
332.677	29.05	-22.46	-16.97	46.02	154	75
399.992	36.14	-18.6	-9.88	46.02	137	199
666.68	45.8	-12.77	-0.22	46.02	233	362
933.38	43.48	-8.41	-2.54	46.02	275	234

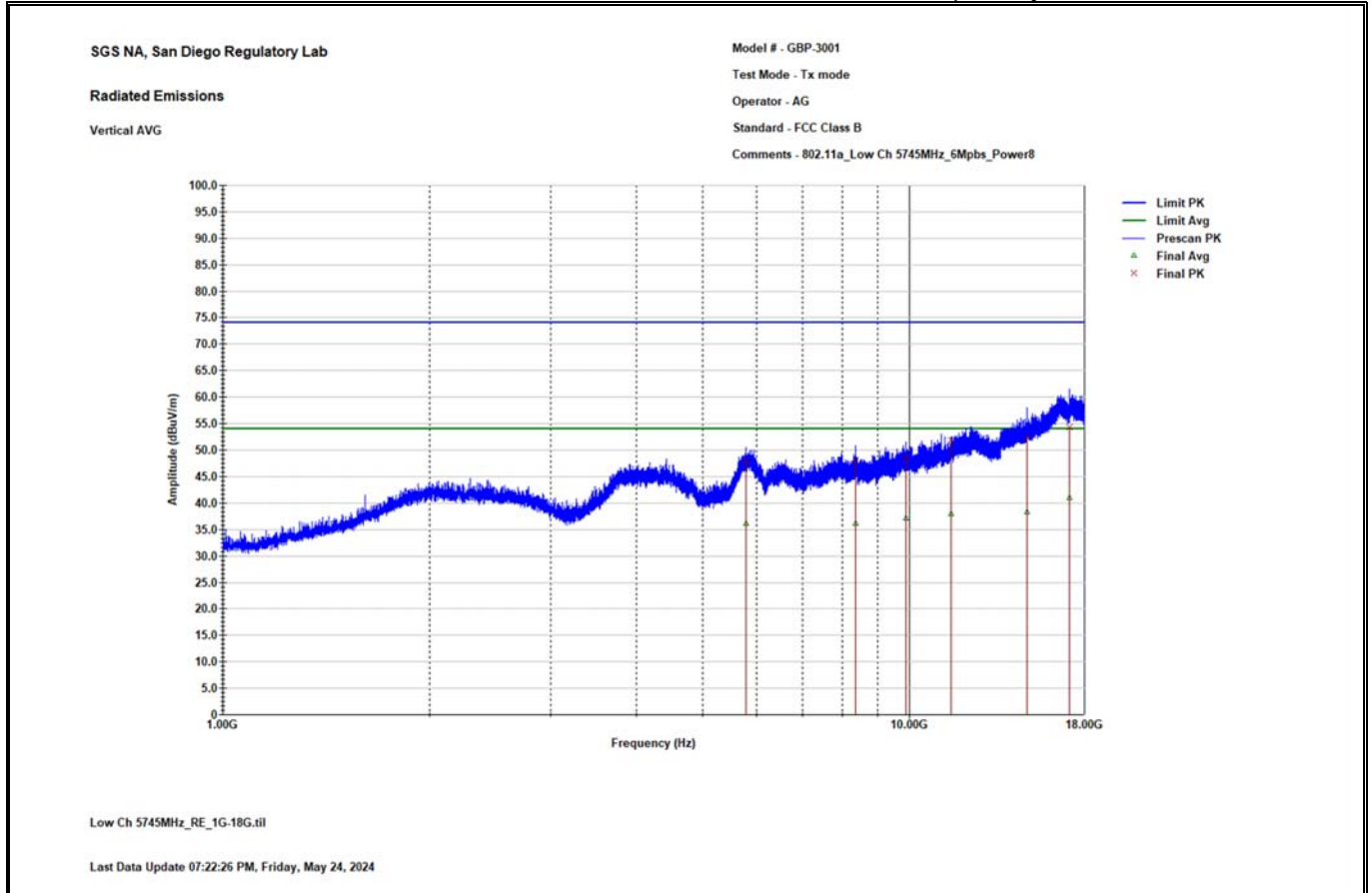
UNII-3 802.11a mode– 30MHz to 1GHz Worst-Case High Channel 5825MHz – Horizontal polarity



Quasi-Peak Data

Freq. (MHz)	Final QP (dBuV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBuV/m)	Ant. Height (cm)	Azimuth (deg.)
153.515	16.91	-26.73	-26.61	43.52	217	74
316.451	19.14	-22.88	-26.88	46.02	100	132
400.016	31.15	-18.6	-14.87	46.02	100	-5
539.582	24.21	-13.93	-21.81	46.02	122	141
666.71	39.53	-12.77	-6.49	46.02	114	-20
931.964	29.93	-8.45	-16.09	46.02	186	95

UNII-3 802.11a mode-1GHz to 18GHz Low Channel 5745MHz – Vertical polarity



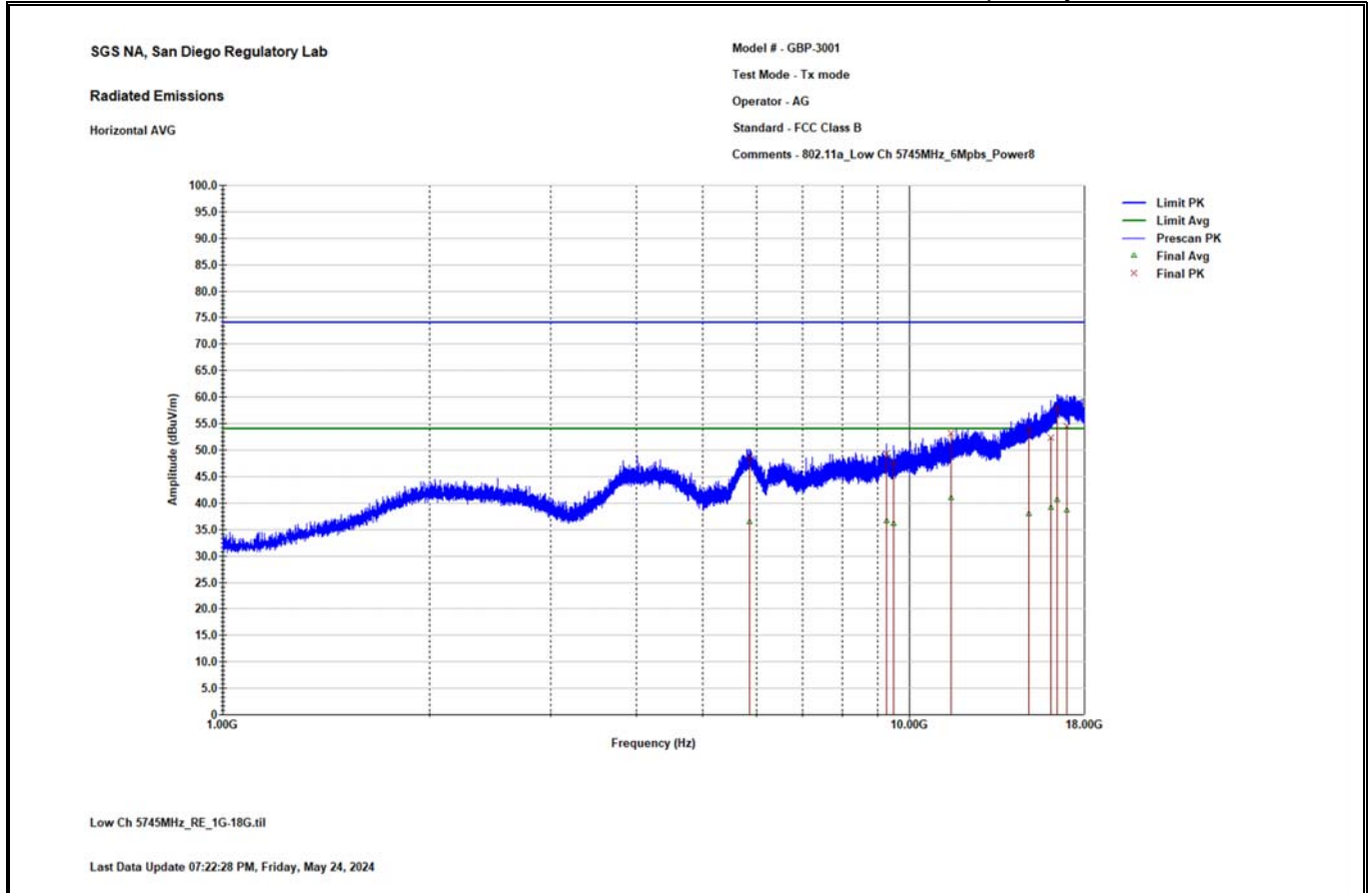
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5787.2	48.02	9.22	-25.98	74	217	380
8341.025	48.05	15.66	-25.95	74	171	317
9878.675	48.73	19.1	-25.27	74	240	179
11507.27	51.77	24.26	-22.23	74	150	245
14853.3	52.33	28.12	-21.67	74	380	239
17107.08	54.4	32.77	-19.6	74	295	61

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5787.2	36.16	9.22	-17.84	54	217	380
8341.025	36.17	15.66	-17.83	54	171	317
9878.675	37.14	19.1	-16.86	54	240	179
11507.27	38.06	24.26	-15.94	54	150	245
14853.3	38.32	28.12	-15.68	54	380	239
17107.08	40.99	32.77	-13.01	54	295	61

UNII-3 802.11a mode-1GHz to 18GHz Low Channel 5745MHz – Horizontal polarity



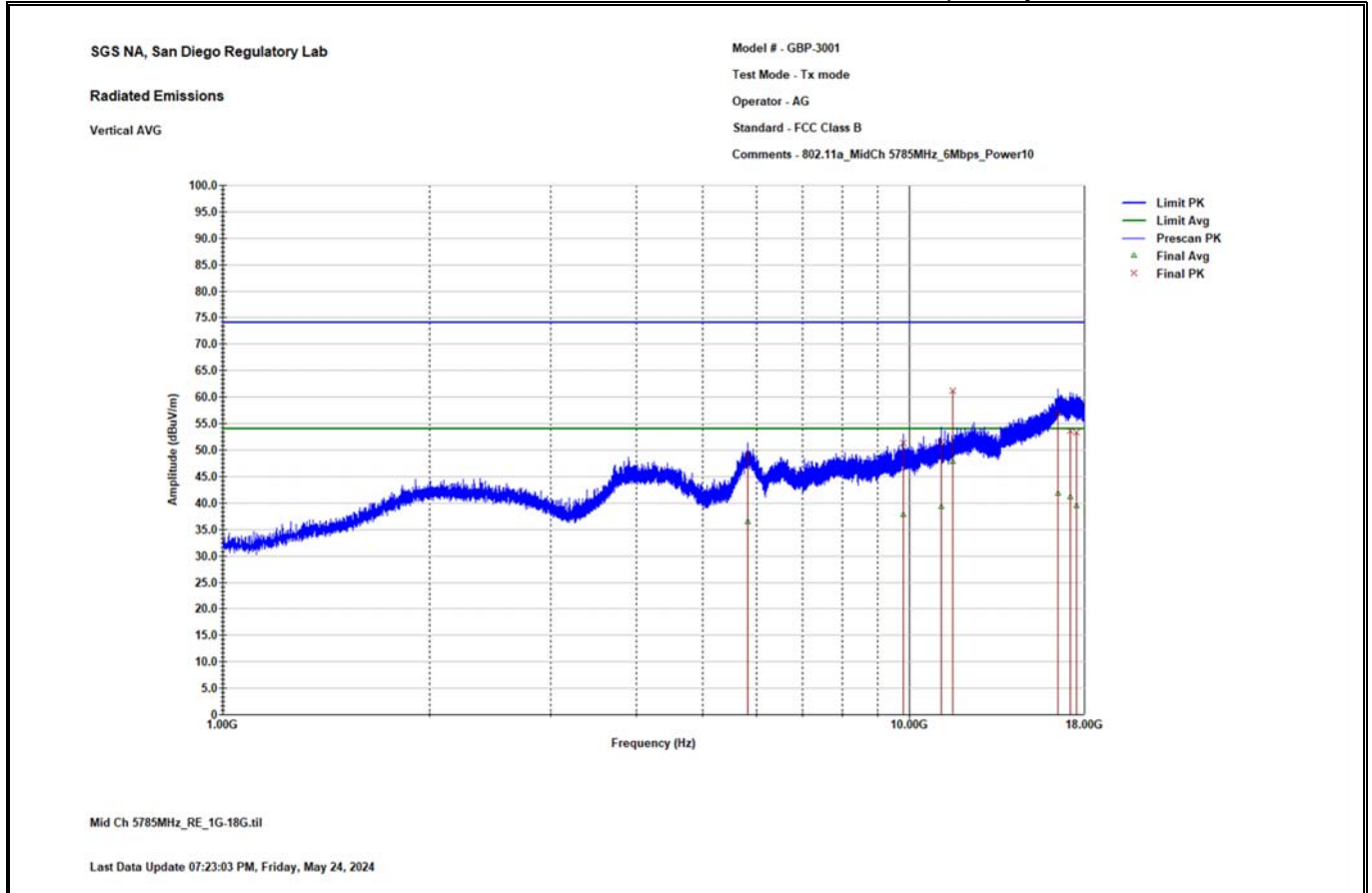
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5847.975	48.71	9.54	-25.29	74	194	331
9274.75	49.34	17.92	-24.66	74	332	51
9501.25	47.61	18.54	-26.39	74	355	216
11495.8	53.1	24.25	-20.9	74	179	222
14948.5	54.05	28.34	-19.95	74	194	14
16076.87	52.26	31.29	-21.74	74	378	79
16429.63	57.96	32.78	-16.04	74	239	112

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5847.975	36.56	9.54	-17.44	54	194	331
9274.75	36.71	17.92	-17.29	54	332	51
9501.25	36.14	18.54	-17.86	54	355	216
11495.8	40.97	24.25	-13.03	54	179	222
14948.5	37.92	28.34	-16.08	54	194	14
16076.87	39.11	31.29	-14.89	54	378	79
16429.63	40.63	32.78	-13.37	54	239	112
16978.32	38.73	33.19	-15.27	54	400	238

UNII-3 802.11a mode-1GHz to 18GHz Mid Channel 5785MHz – Vertical polarity



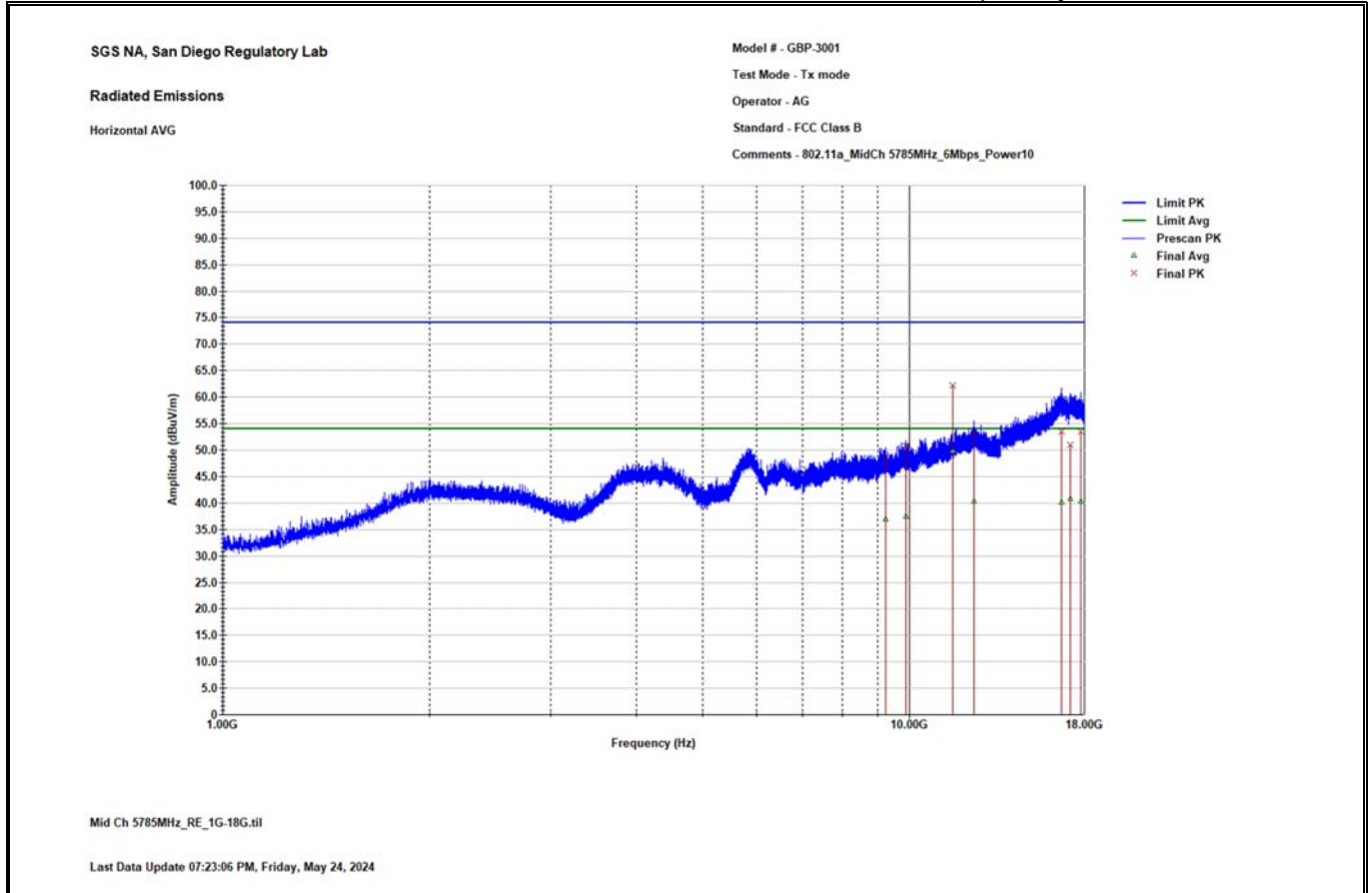
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5823.75	49.17	9.37	-24.83	74	376	24
9796.65	51.24	19.16	-22.76	74	171	-17
11129.02	51.47	22.63	-22.53	74	226	306
11567.2	61.08	24.25	-12.92	74	303	139
16481.05	56.98	33.02	-17.02	74	225	264
17141.5	53.72	32.78	-20.28	74	155	137
17515.5	53.37	32.11	-20.63	74	187	261

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5823.75	36.51	9.37	-17.49	54	376	24
9796.65	37.82	19.16	-16.18	54	171	-17
11129.02	39.35	22.63	-14.65	54	226	306
11567.2	47.89	24.25	-6.11	54	303	139
16481.05	41.75	33.02	-12.25	54	225	264
17141.5	41.16	32.78	-12.84	54	155	137
17515.5	39.57	32.11	-14.43	54	187	261

UNII-3 802.11a mode-1GHz to 18GHz Mid Channel 5785MHz – Horizontal polarity



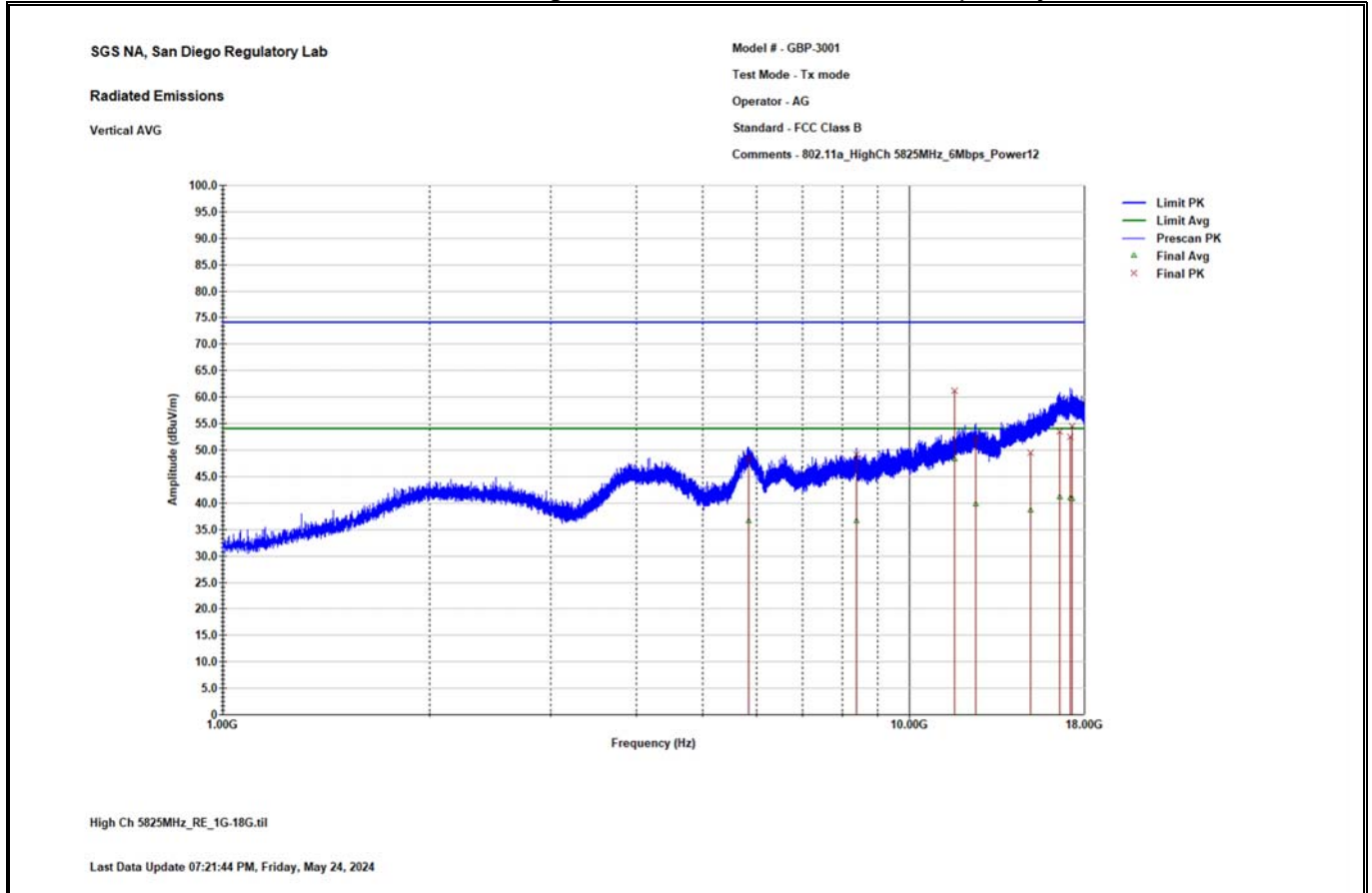
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
9248.4	48.84	17.77	-25.16	74	363	-7
9883.775	50.86	19.13	-23.14	74	209	112
11570.6	62.18	24.25	-11.82	74	225	150
12437.6	53.15	25.96	-20.85	74	150	228
16646.38	53.46	33.63	-20.54	74	302	-20
17152.97	50.99	32.79	-23.01	74	150	282
17781.98	53.43	31.85	-20.57	74	378	99

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
9248.4	36.98	17.77	-17.02	54	363	-7
9883.775	37.52	19.13	-16.48	54	209	112
11570.6	49.87	24.25	-4.13	54	225	150
12437.6	40.37	25.96	-13.63	54	150	228
16646.38	40.18	33.63	-13.82	54	302	-20
17152.97	40.89	32.79	-13.11	54	150	282
17781.98	40.38	31.85	-13.62	54	378	99

UNII-3 802.11a mode-1GHz to 18GHz High Channel 5825MHz – Vertical polarity



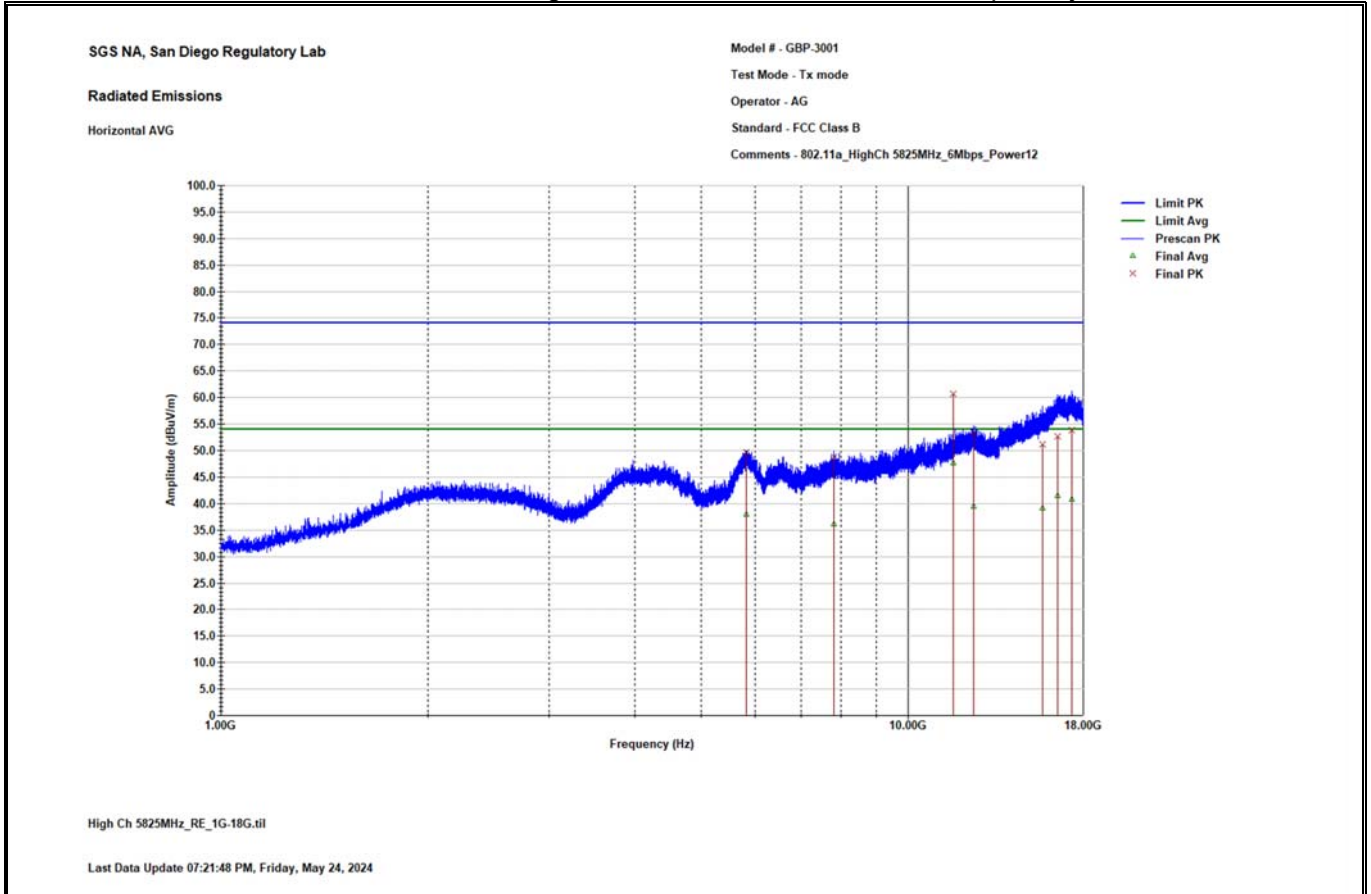
Peak Data

Freq. (MHz)	Final Pk (dBuV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBuV/m)	Ant. Height (cm)	Azimuth (deg.)
5839.05	48.53	9.48	-25.47	74	365	28
8379.275	49.11	15.67	-24.89	74	310	310
11644.13	61.2	24.39	-12.8	74	326	133
12501.35	52.15	26.02	-21.85	74	381	286
15020.75	49.43	28.49	-24.57	74	326	122
16580.5	53.51	33.45	-20.49	74	296	164
17150.43	52.51	32.79	-21.49	74	241	343
17287.27	54.49	32.55	-19.51	74	272	253

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5839.05	36.65	9.48	-17.35	54	365	28
8379.275	36.65	15.67	-17.35	54	310	310
11644.13	48.38	24.39	-5.62	54	326	133
12501.35	39.78	26.02	-14.22	54	381	286
15020.75	38.63	28.49	-15.37	54	326	122
16580.5	41.15	33.45	-12.85	54	296	164
17150.43	41.04	32.79	-12.96	54	241	343
17287.27	40.9	32.55	-13.1	54	272	253

UNII-3 802.11a mode-1GHz to 18GHz High Channel 5825MHz – Horizontal polarity



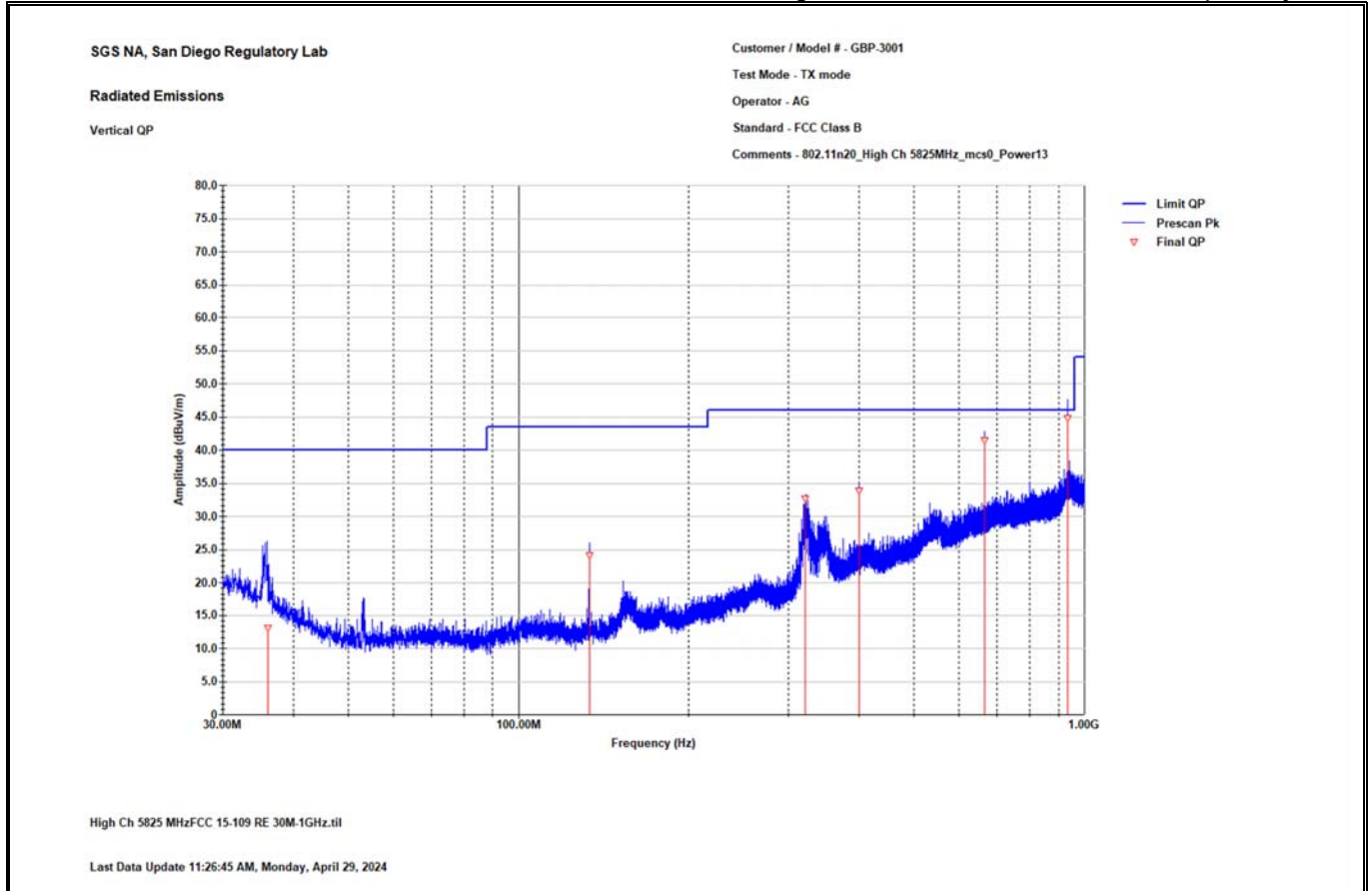
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5820.35	49.61	9.34	-24.39	74	355	147
7792.775	48.78	14.37	-25.22	74	163	202
11645.83	60.65	24.4	-13.35	74	155	152
12463.52	53.25	25.99	-20.75	74	356	9
15726.67	51.21	30.17	-22.79	74	217	109
16512.92	52.71	33.16	-21.29	74	150	168
17303.85	53.76	32.51	-20.24	74	255	112

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5820.35	37.92	9.34	-16.08	54	355	147
7792.775	36.18	14.37	-17.82	54	163	202
11645.83	47.63	24.4	-6.37	54	155	152
12463.52	39.52	25.99	-14.48	54	356	9
15726.67	39.1	30.17	-14.9	54	217	109
16512.92	41.43	33.16	-12.57	54	150	168
17303.85	40.85	32.51	-13.15	54	255	112

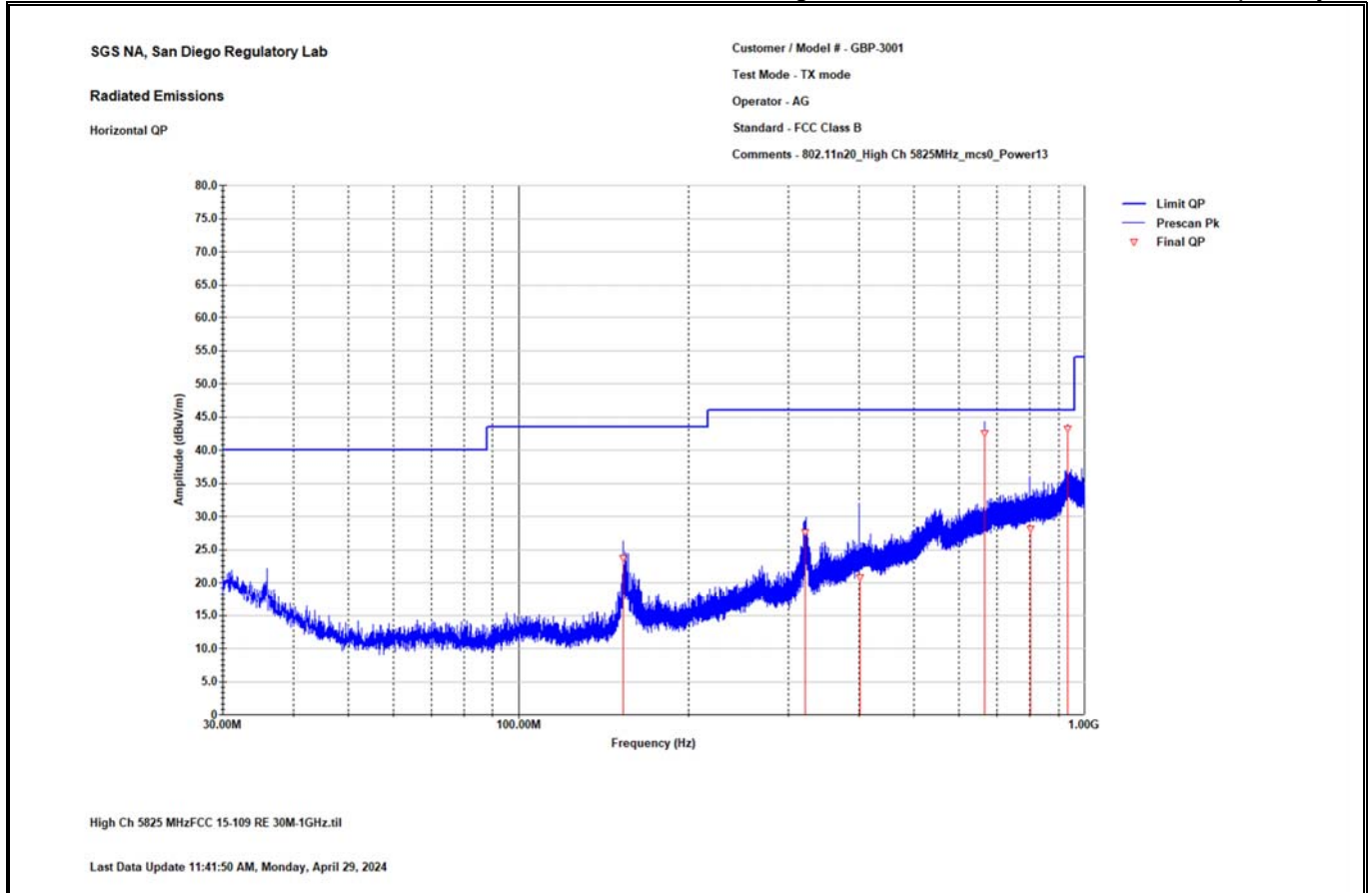
UNII-3 802.11n HT20 mode– 30MHz to 1GHz Worst-Case High Channel 5825MHz – Vertical polarity



Quasi-Peak Data

Freq. (MHz)	Final QP (dBuV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBuV/m)	Ant. Height (cm)	Azimuth (deg.)
36.067	13.04	-24.74	-26.96	40	177	76
133.358	24.08	-29.74	-19.44	43.52	100	325
321.164	32.67	-22.82	-13.35	46.02	145	79
400.04	33.85	-18.6	-12.17	46.02	130	188
666.71	41.49	-12.77	-4.53	46.02	114	346
933.38	44.78	-8.41	-1.24	46.02	266	230

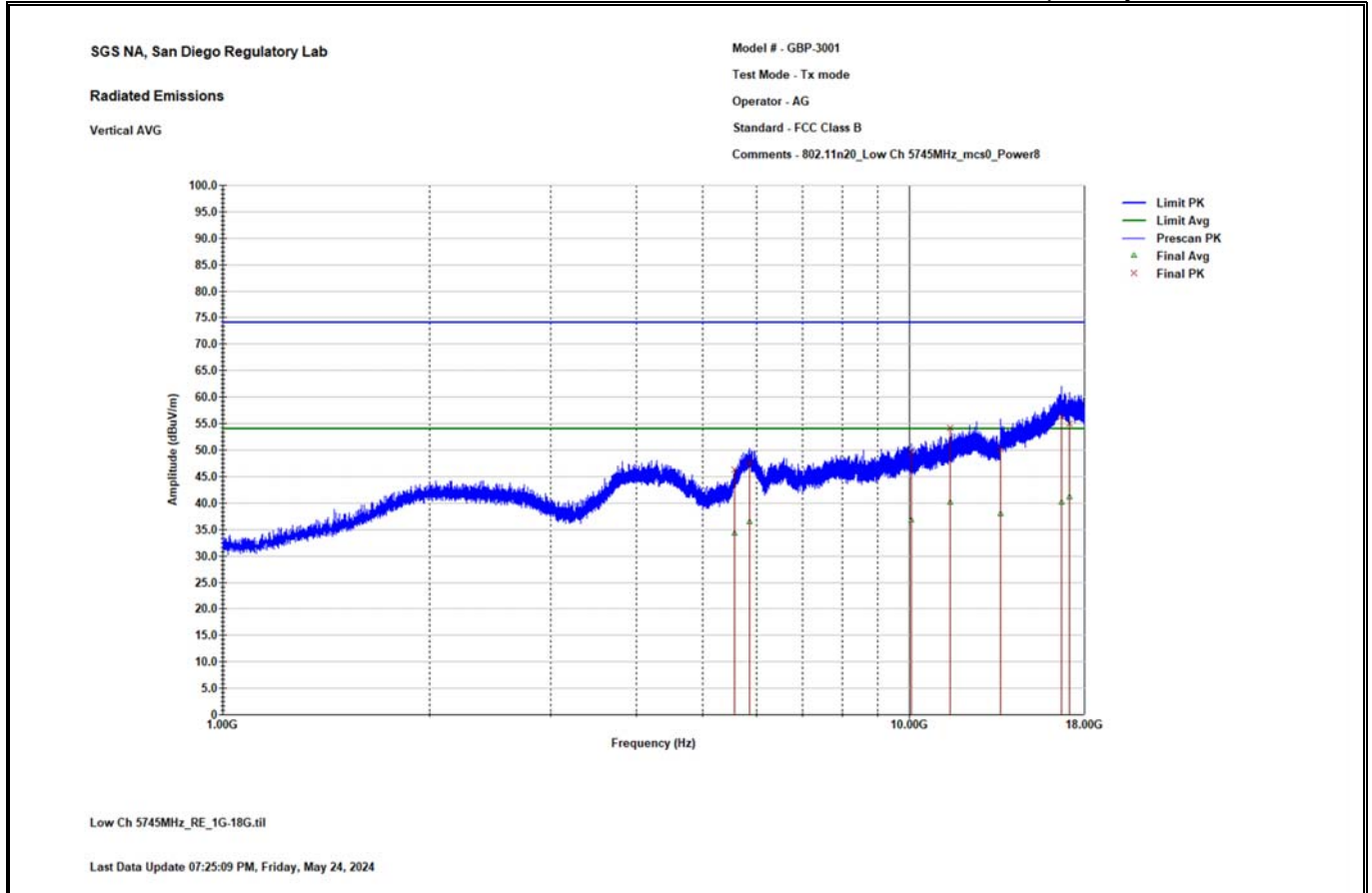
UNII-3 802.11n HT20 mode– 30MHz to 1GHz Worst-Case High Channel 5825MHz – Horizontal polarity



Quasi-Peak Data

Freq. (MHz)	Final QP (dBµV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Ant. Height (cm)	Azimuth (deg.)
153.005	23.78	-26.87	-19.74	43.52	100	278
321.53	27.66	-22.82	-18.36	46.02	101	99
400.772	20.75	-18.55	-25.27	46.02	352	217
666.716	42.55	-12.77	-3.47	46.02	100	54
803.024	28.14	-11.25	-17.88	46.02	304	348
933.35	43.23	-8.41	-2.79	46.02	169	151

UNII-3 802.11n HT20 mode – 1GHz to 18GHz Low Channel 5745MHz – Vertical polarity



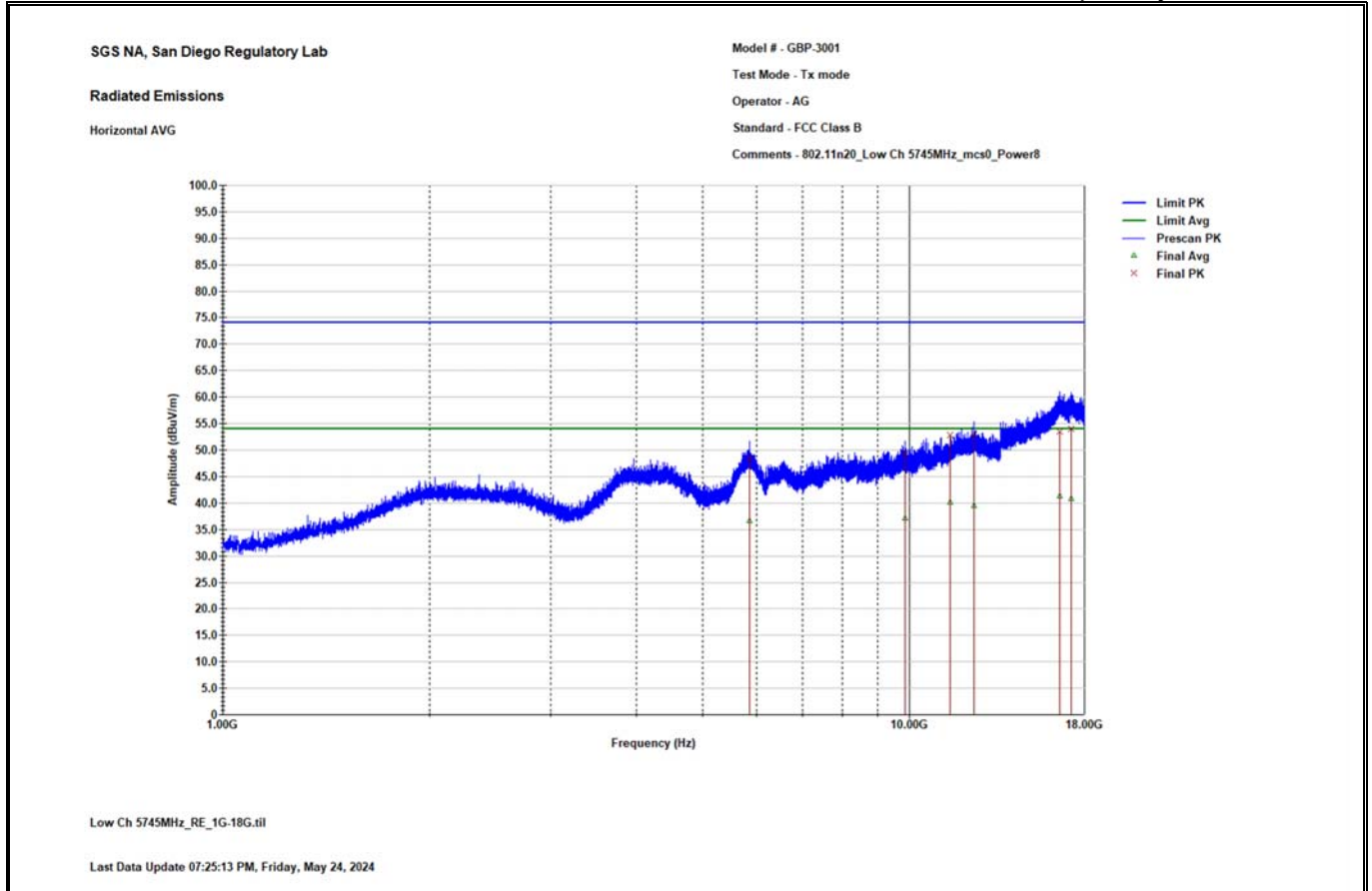
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5570.1	46.29	8.2	-27.71	74	163	28
5844.575	47.64	9.52	-26.36	74	257	231
10063.55	49.61	19.68	-24.39	74	233	362
11487.3	54.14	24.21	-19.86	74	225	105
13599.98	50.09	26.28	-23.91	74	356	178
16668.48	56.32	33.62	-17.68	74	400	43
17126.2	55.05	32.78	-18.95	74	155	95

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5570.1	34.4	8.2	-19.6	54	163	28
5844.575	36.52	9.52	-17.48	54	257	231
10063.55	36.89	19.68	-17.11	54	233	362
11487.3	40.22	24.21	-13.78	54	225	105
13599.98	38.05	26.28	-15.95	54	356	178
16668.48	40.17	33.62	-13.83	54	400	43
17126.2	41.19	32.78	-12.81	54	155	95

UNII-3 802.11n HT20 mode – 1GHz to 18GHz Low Channel 5745MHz – Horizontal polarity



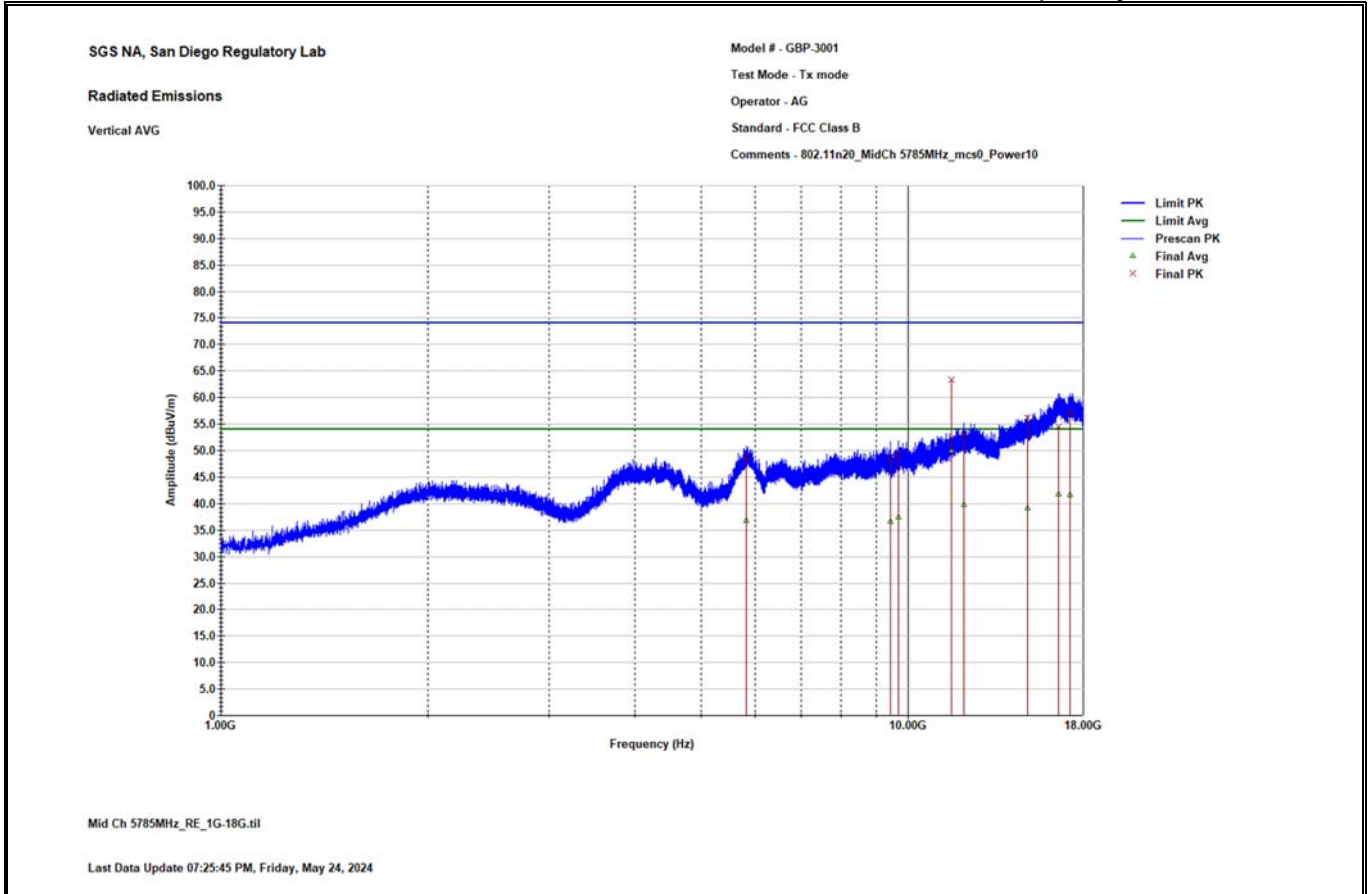
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5850.1	48.46	9.56	-25.54	74	150	139
9865.925	49.45	19.06	-24.55	74	316	283
11485.17	52.8	24.2	-21.2	74	150	221
12415.08	52.96	25.94	-21.04	74	400	135
16545.22	53.48	33.3	-20.52	74	171	12
17223.1	54.05	32.74	-19.95	74	393	72

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5850.1	36.58	9.56	-17.42	54	150	139
9865.925	37.12	19.06	-16.88	54	316	283
11485.17	40.22	24.2	-13.78	54	150	221
12415.08	39.48	25.94	-14.52	54	400	135
16545.22	41.27	33.3	-12.73	54	171	12
17223.1	40.88	32.74	-13.12	54	393	72

UNII-3 802.11n HT20 mode – 1GHz to 18GHz Mid Channel 5785MHz – Vertical polarity



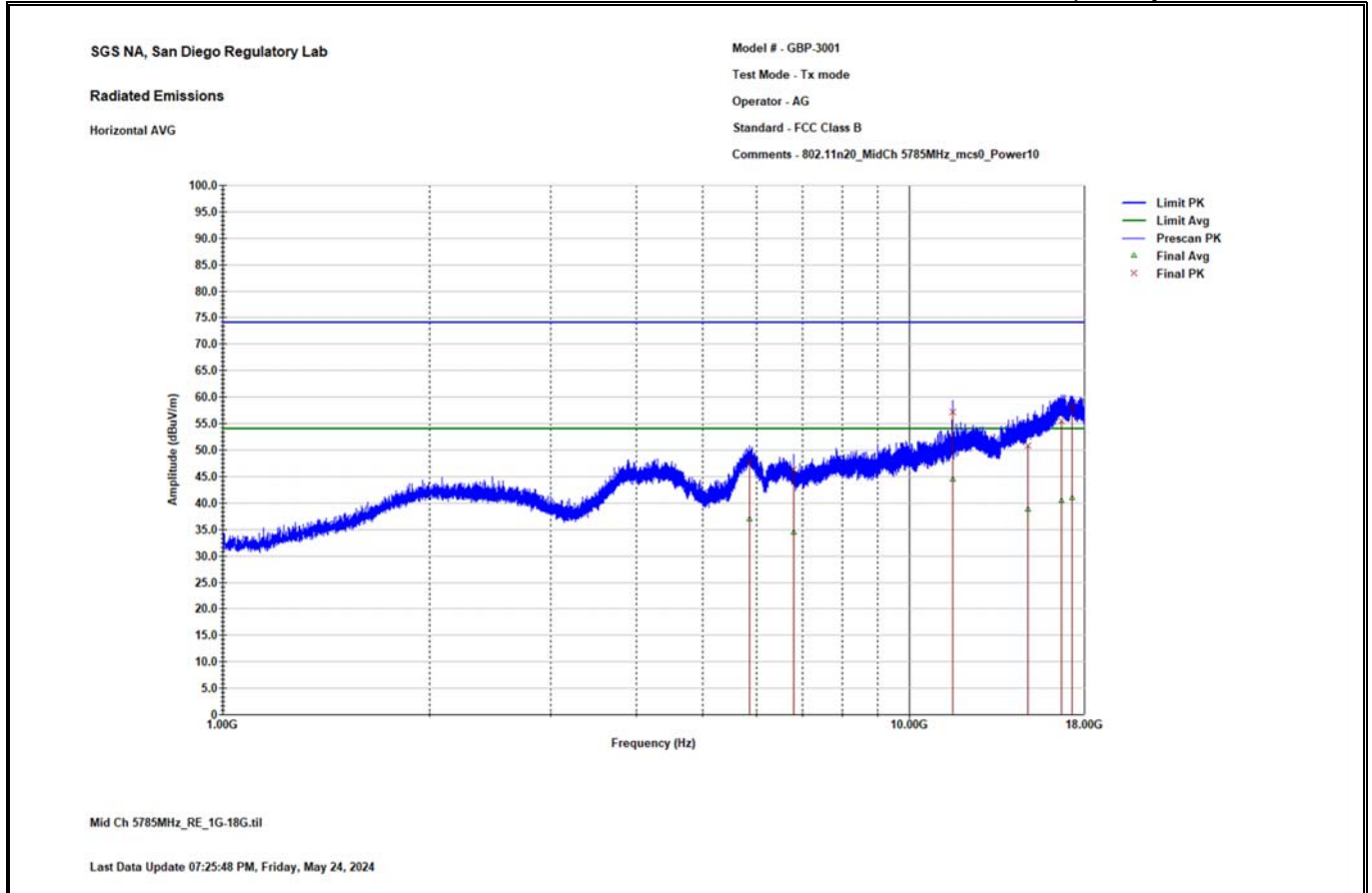
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5810.575	48.88	9.31	-25.12	74	256	125
9441.775	48.65	18.28	-25.35	74	365	325
9685.725	49.56	18.72	-24.44	74	256	216
11568.9	63.34	24.25	-10.66	74	150	135
12052.12	53.01	25.34	-20.99	74	272	17
14938.3	56.13	28.32	-17.87	74	389	77
16542.25	54.56	33.28	-19.44	74	400	325
17198.02	57.18	32.81	-16.82	74	400	148

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5810.575	36.87	9.31	-17.13	54	256	125
9441.775	36.65	18.28	-17.35	54	365	325
9685.725	37.46	18.72	-16.54	54	256	216
11568.9	50.03	24.25	-3.97	54	150	135
12052.12	39.78	25.34	-14.22	54	272	17
14938.3	39.2	28.32	-14.8	54	389	77
16542.25	41.88	33.28	-12.12	54	400	325
17198.02	41.7	32.81	-12.3	54	400	148

UNII-3 802.11n HT20 mode – 1GHz to 18GHz Mid Channel 5785MHz – Horizontal polarity



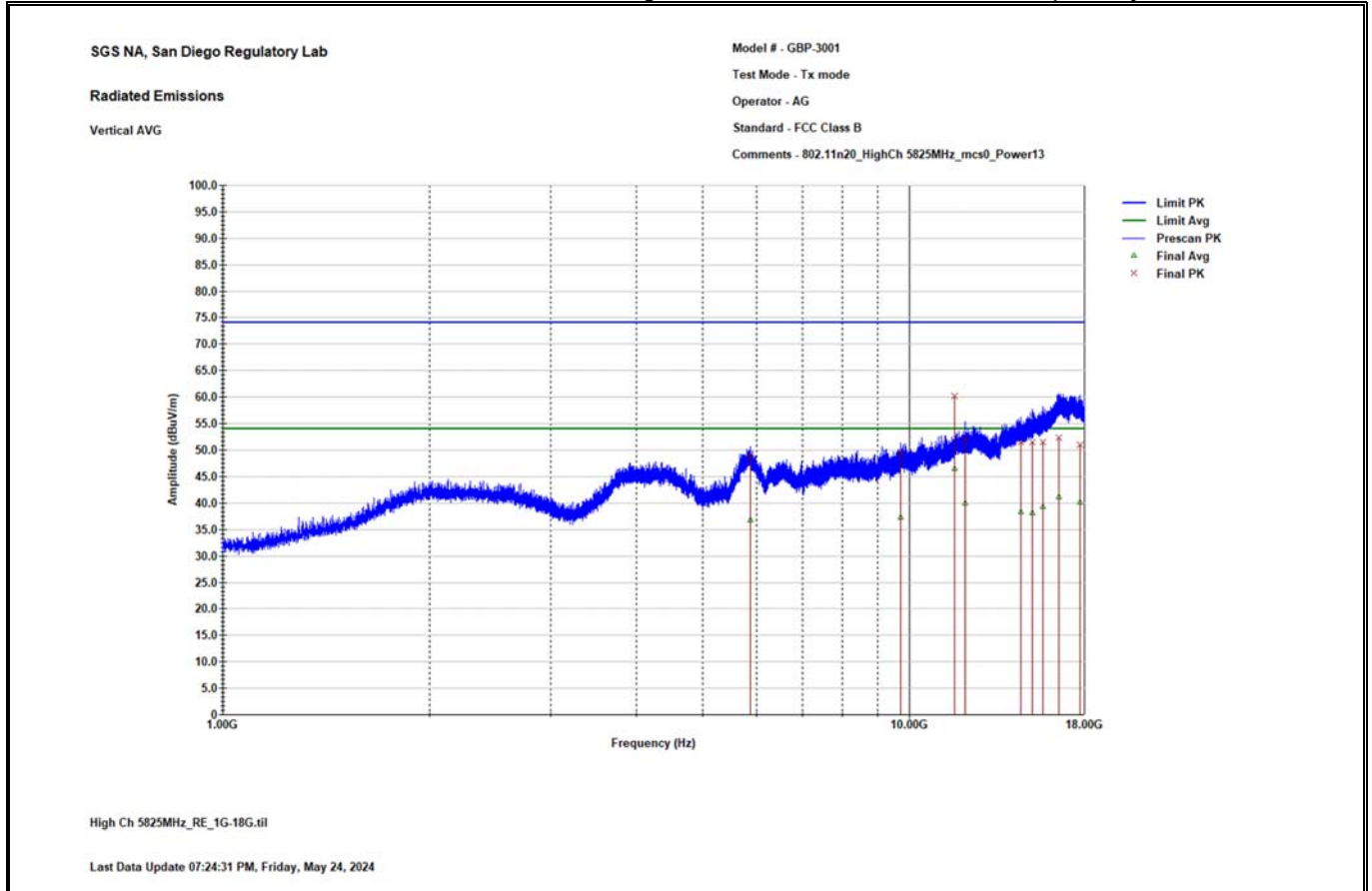
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5857.325	47.86	9.61	-26.14	74	400	197
6793.6	46.26	11.55	-27.74	74	186	221
11574	57.14	24.25	-16.86	74	332	225
14869.87	50.85	28.16	-23.15	74	340	69
16662.95	55.55	33.62	-18.45	74	400	299
17282.17	58.3	32.57	-15.7	74	286	258

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5857.325	36.94	9.61	-17.06	54	400	197
6793.6	34.41	11.55	-19.59	54	186	221
11574	44.42	24.25	-9.58	54	332	225
14869.87	38.86	28.16	-15.14	54	340	69
16662.95	40.55	33.62	-13.45	54	400	299
17282.17	40.94	32.57	-13.06	54	286	258

UNII-3 802.11n HT20 mode – 1GHz to 18GHz High Channel 5825MHz – Vertical polarity



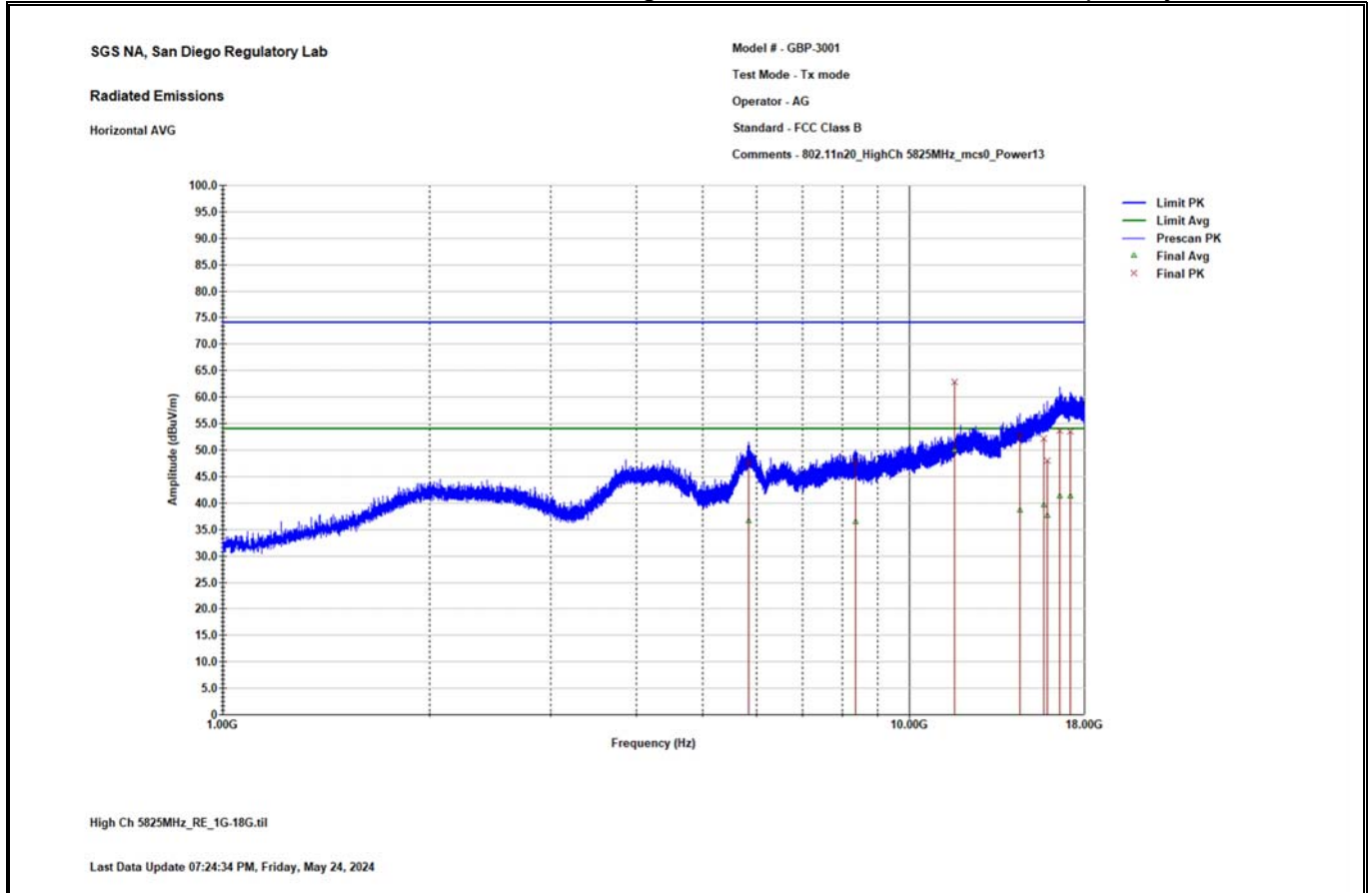
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5862	48.96	9.64	-25.04	74	171	219
9707.825	49.53	18.84	-24.47	74	400	193
11640.73	60.16	24.38	-13.84	74	326	134
12078.05	52.18	25.4	-21.82	74	350	65
14560.48	51.51	27.52	-22.49	74	346	95
15108.72	51.46	28.59	-22.54	74	150	-14
15645.5	51.51	29.99	-22.49	74	400	181
16538.43	52.29	33.27	-21.71	74	202	134
17714.4	51.02	31.92	-22.98	74	150	114

Average Data

Freq. (MHz)	Final Avg (dBµV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Ant. Height (cm)	Azimuth (deg.)
5862	36.76	9.64	-17.24	54	171	219
9707.825	37.39	18.84	-16.61	54	400	193
11640.73	46.44	24.38	-7.56	54	326	134
12078.05	39.92	25.4	-14.08	54	350	65
14560.48	38.38	27.52	-15.62	54	346	95
15108.72	38.14	28.59	-15.86	54	150	-14
15645.5	39.3	29.99	-14.7	54	400	181
16538.43	41.13	33.27	-12.87	54	202	134
17714.4	40.19	31.92	-13.81	54	150	114

UNII-3 802.11n HT20 mode – 1GHz to 18GHz High Channel 5825MHz – Horizontal polarity



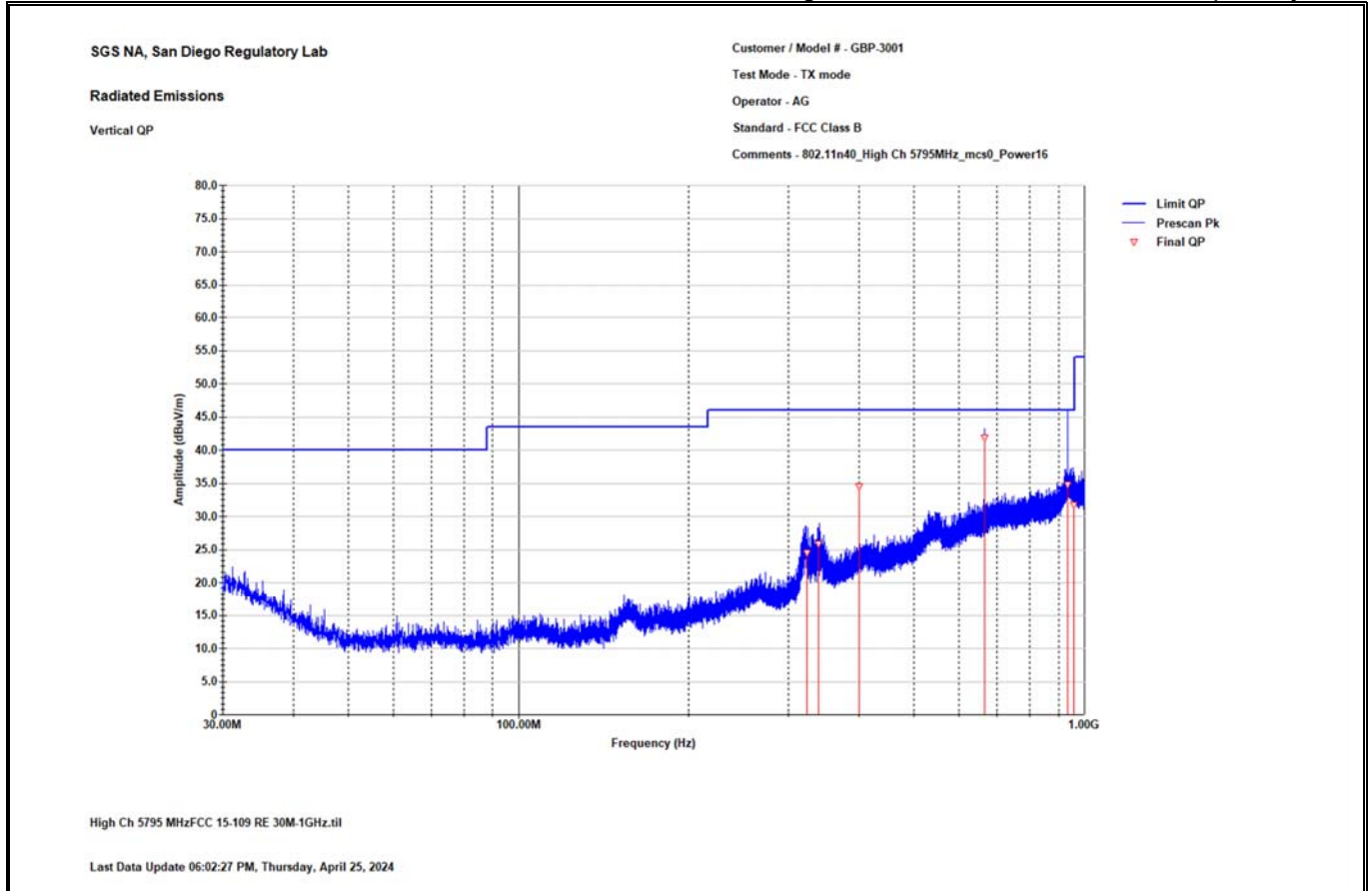
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5843.3	47.77	9.51	-26.23	74	354	363
8360.15	47.88	15.66	-26.12	74	240	169
11648.8	62.89	24.41	-11.11	74	248	146
14476.75	52.8	27.34	-21.2	74	240	142
15690.13	52.2	30.09	-21.8	74	255	305
15911.97	48.05	30.78	-25.95	74	271	99
16583.05	53.63	33.46	-20.37	74	278	35
17169.13	53.49	32.8	-20.51	74	332	255

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5843.3	36.58	9.51	-17.42	54	354	363
8360.15	36.42	15.66	-17.58	54	240	169
11648.8	50.07	24.41	-3.93	54	248	146
14476.75	38.62	27.34	-15.38	54	240	142
15690.13	39.74	30.09	-14.26	54	255	305
15911.97	37.61	30.78	-16.39	54	271	99
16583.05	41.26	33.46	-12.74	54	278	35
17169.13	41.29	32.8	-12.71	54	332	255

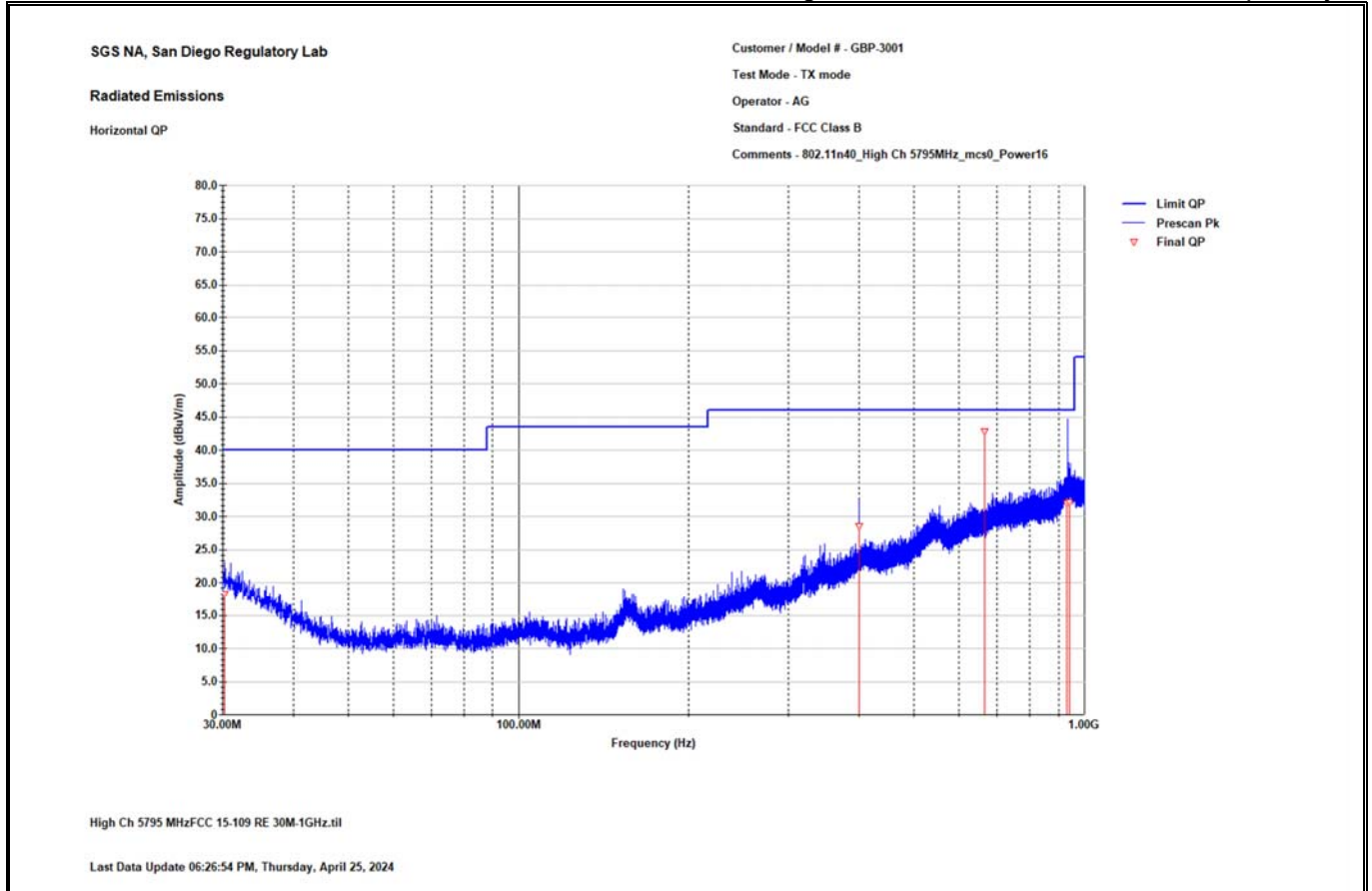
UNII-3 802.11n HT40 mode – 30MHz to 1GHz Worst-Case High Channel 5795MHz – Vertical polarity



Quasi-Peak Data

Freq. (MHz)	Final QP (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
323.179	24.59	-22.81	-21.43	46.02	146	45
339.249	25.8	-21.92	-20.22	46.02	138	83
400.022	34.58	-18.6	-11.44	46.02	122	211
666.68	41.9	-12.77	-4.12	46.02	226	10
933.464	34.77	-8.4	-11.25	46.02	154	300
957.558	31.73	-8.67	-14.29	46.02	380	56

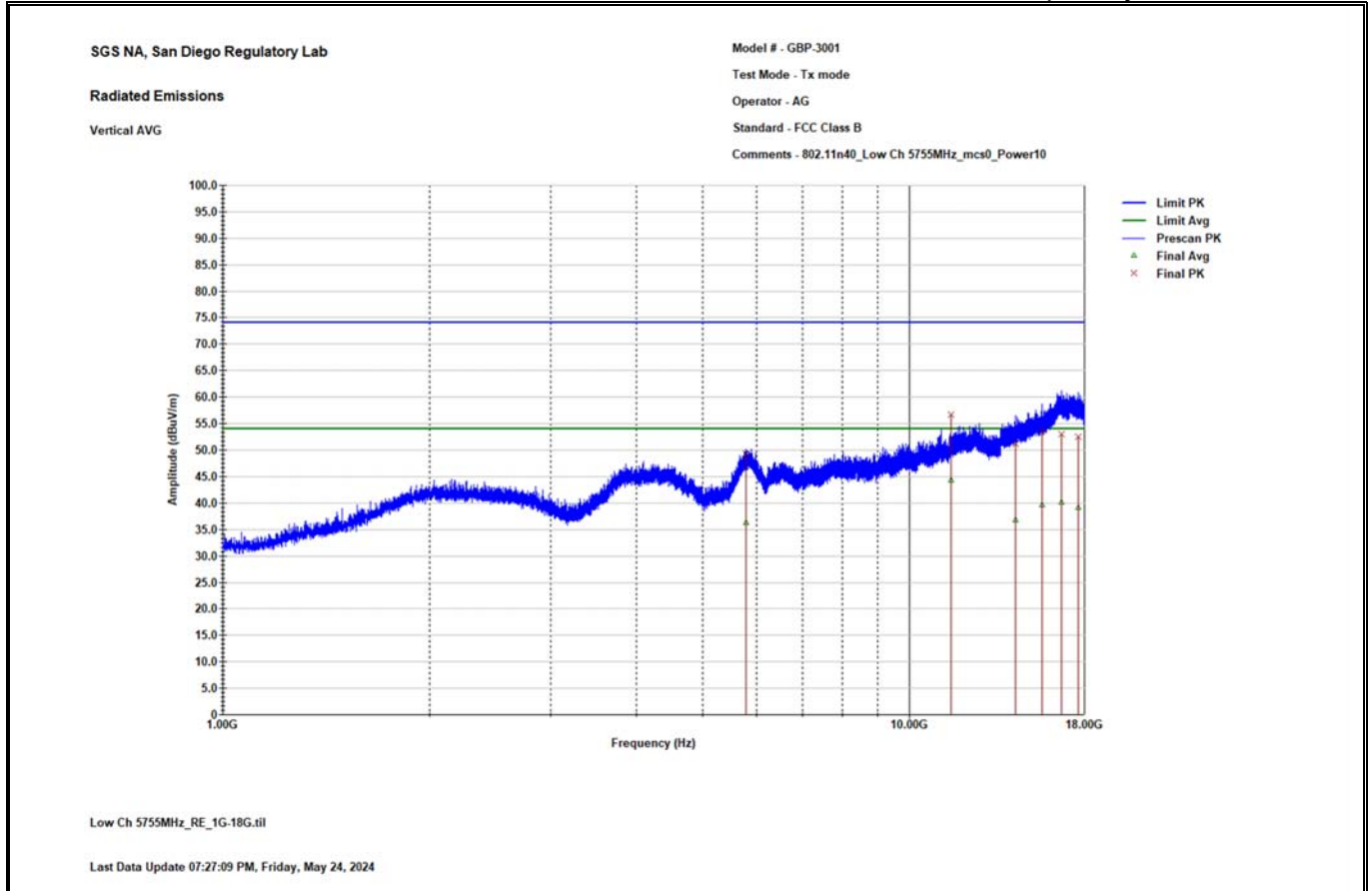
UNII-3 802.11n HT40 mode – 30MHz to 1GHz Worst-Case High Channel 5795MHz – Horizontal polarity



Quasi-Peak Data

Freq. (MHz)	Final QP (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
30.247	18.2	-21.53	-21.8	40	335	33
399.986	28.6	-18.6	-17.42	46.02	209	258
666.686	42.83	-12.77	-3.19	46.02	114	312
931.22	31.93	-8.47	-14.09	46.02	400	335
939.712	32.12	-8.3	-13.9	46.02	209	128
939.749	32.19	-8.3	-13.83	46.02	201	178

UNII-3 802.11n HT40 mode – 1GHz to 18GHz Low Channel 5755MHz – Vertical polarity



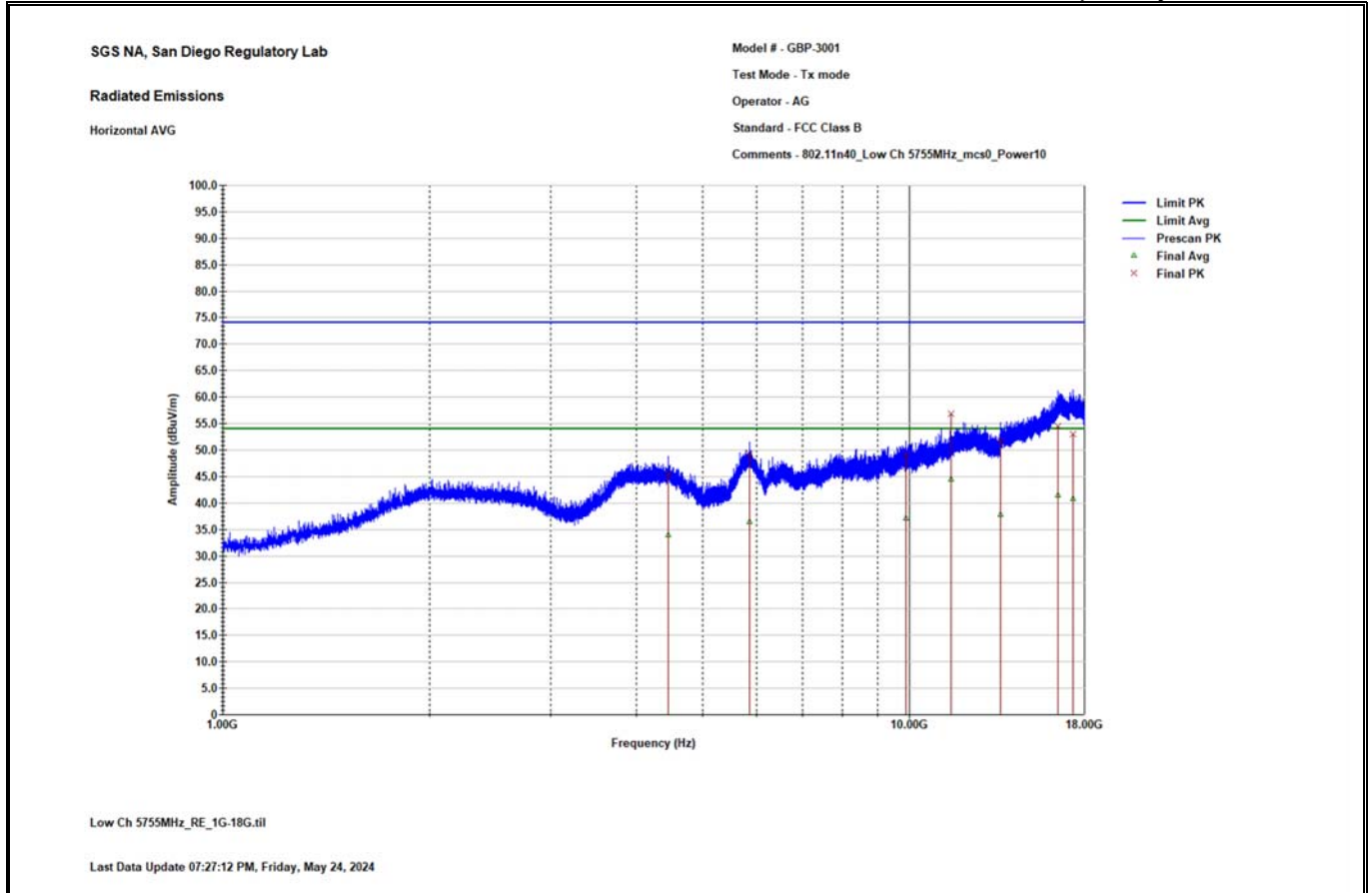
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5788.9	49.3	9.23	-24.7	74	150	162
11507.7	56.59	24.26	-17.41	74	150	133
14264.68	51.17	27.07	-22.83	74	342	28
15596.62	53.57	29.89	-20.43	74	186	61
16675.7	52.93	33.62	-21.07	74	240	118
17642.15	52.54	32.01	-21.46	74	357	351

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5788.9	36.26	9.23	-17.74	54	150	162
11507.7	44.4	24.26	-9.6	54	150	133
14264.68	36.89	27.07	-17.11	54	342	28
15596.62	39.63	29.89	-14.37	54	186	61
16675.7	40.21	33.62	-13.79	54	240	118
17642.15	39.16	32.01	-14.84	54	357	351

UNII-3 802.11n HT40 mode – 1GHz to 18GHz Low Channel 5755MHz – Horizontal polarity



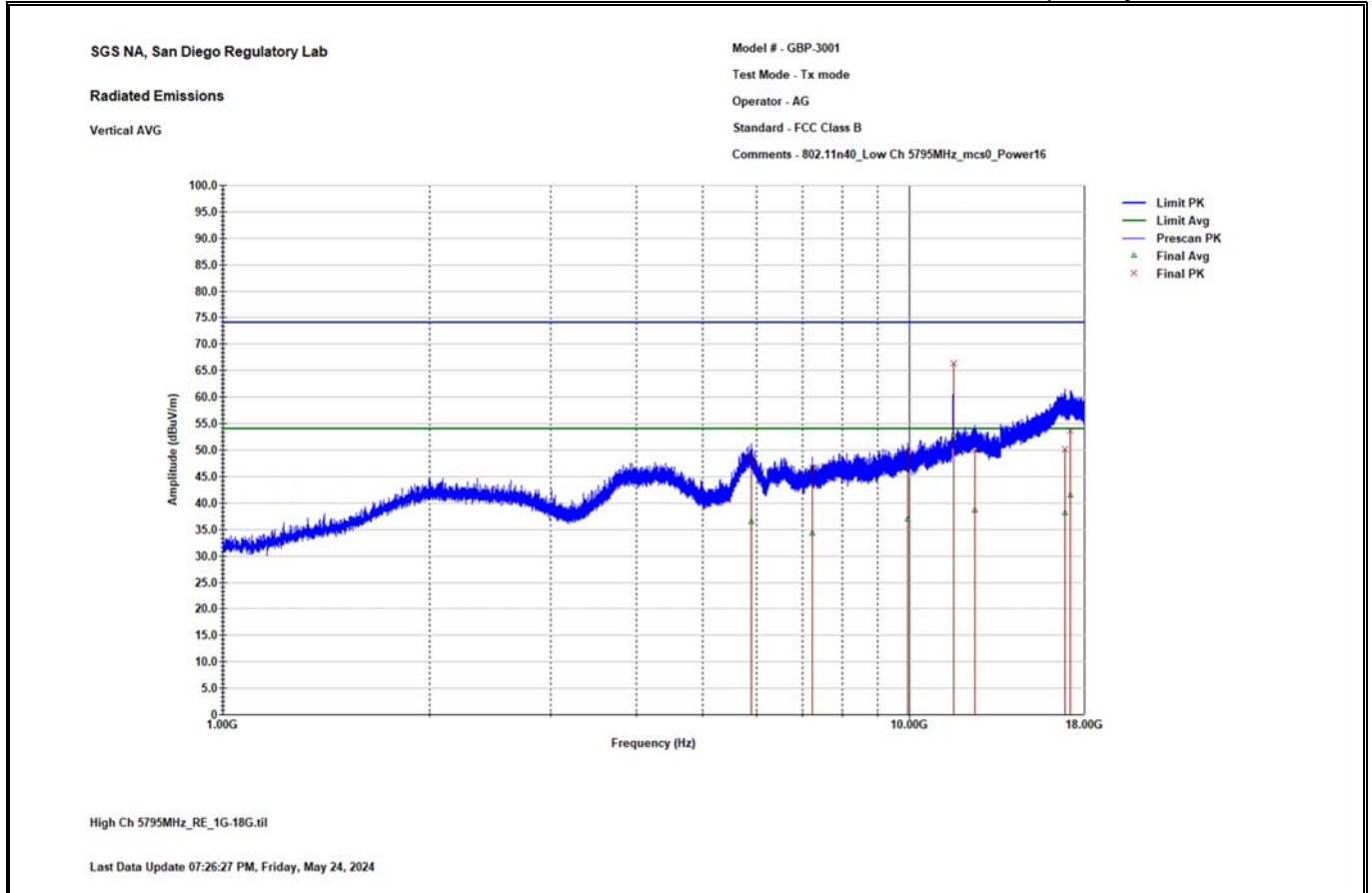
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
4450.15	45.53	5.65	-28.47	74	194	74
5845.85	49.39	9.53	-24.61	74	370	83
9877.825	49.2	19.1	-24.8	74	400	192
11512.38	56.79	24.26	-17.21	74	178	162
13600.08	51.87	26.28	-22.13	74	270	168
16473.83	54.46	32.98	-19.54	74	362	235
17345.08	53.01	32.4	-20.99	74	400	47

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
4450.15	34	5.65	-20	54	194	74
5845.85	36.51	9.53	-17.49	54	370	83
9877.825	37.1	19.1	-16.9	54	400	192
11512.38	44.47	24.26	-9.53	54	178	162
13600.08	37.8	26.28	-16.2	54	270	168
16473.83	41.57	32.98	-12.43	54	362	235
17345.08	40.76	32.4	-13.24	54	400	47

UNII-3 802.11n HT40 mode – 1GHz to 18GHz Low Channel 5795MHz – Vertical polarity



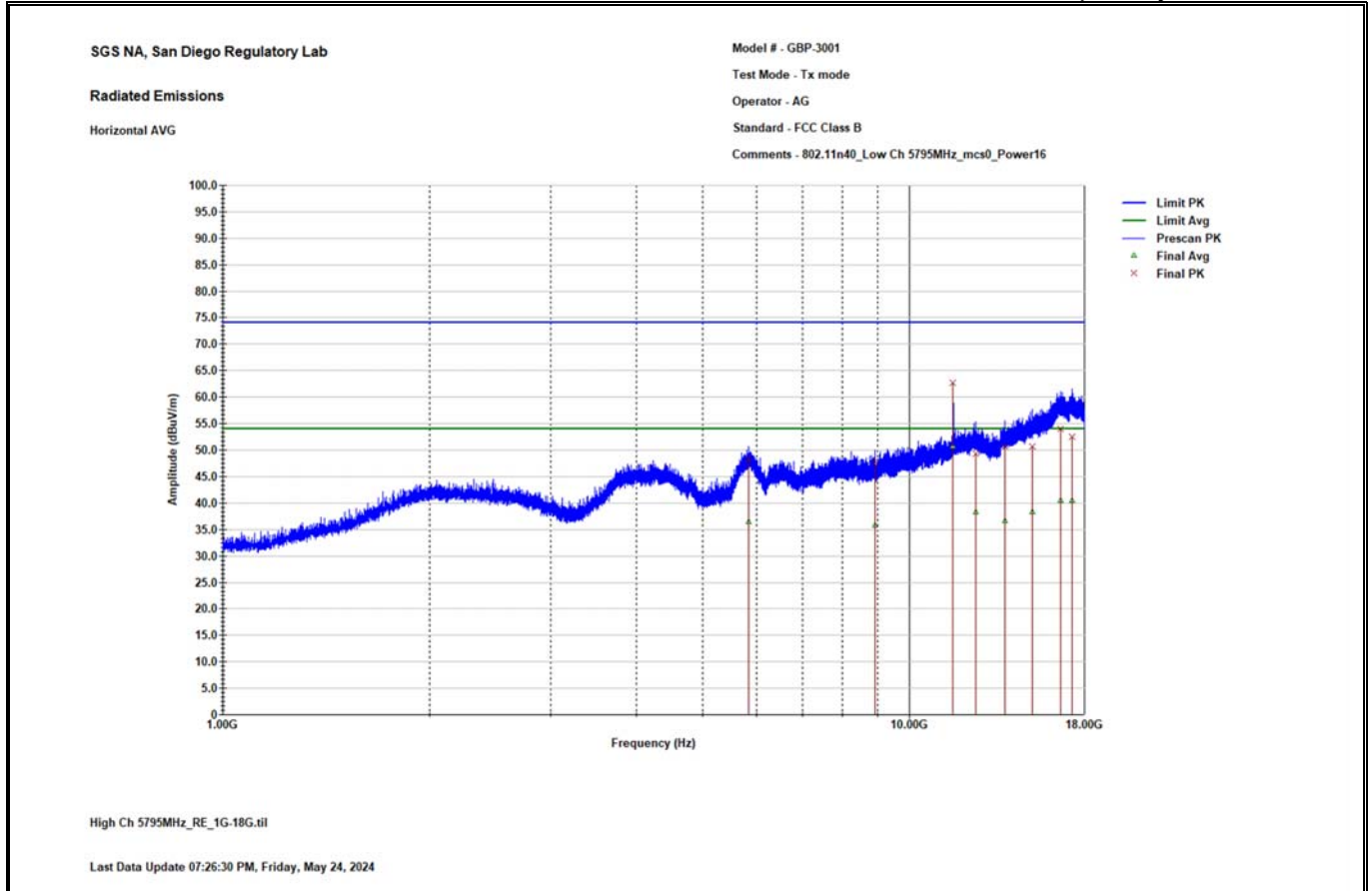
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5884.95	48.58	9.79	-25.42	74	349	336
7233.9	46.74	12.51	-27.26	74	163	201
9952.2	49.72	19.5	-24.28	74	350	1
11593.55	66.39	24.24	-7.61	74	163	125
12466.5	50.02	25.99	-23.98	74	150	65
16867.8	50.19	33.48	-23.81	74	400	95
17180.17	53.72	32.8	-20.28	74	163	50

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5884.95	36.52	9.79	-17.48	54	349	336
7233.9	34.35	12.51	-19.65	54	163	201
9952.2	36.94	19.5	-17.06	54	350	1
11593.55	52.83	24.24	-1.17	54	163	125
12466.5	38.65	25.99	-15.35	54	150	65
16867.8	38.15	33.48	-15.85	54	400	95
17180.17	41.56	32.8	-12.44	54	163	50

UNII-3 802.11n HT40 mode – 1GHz to 18GHz Low Channel 5795MHz – Horizontal polarity



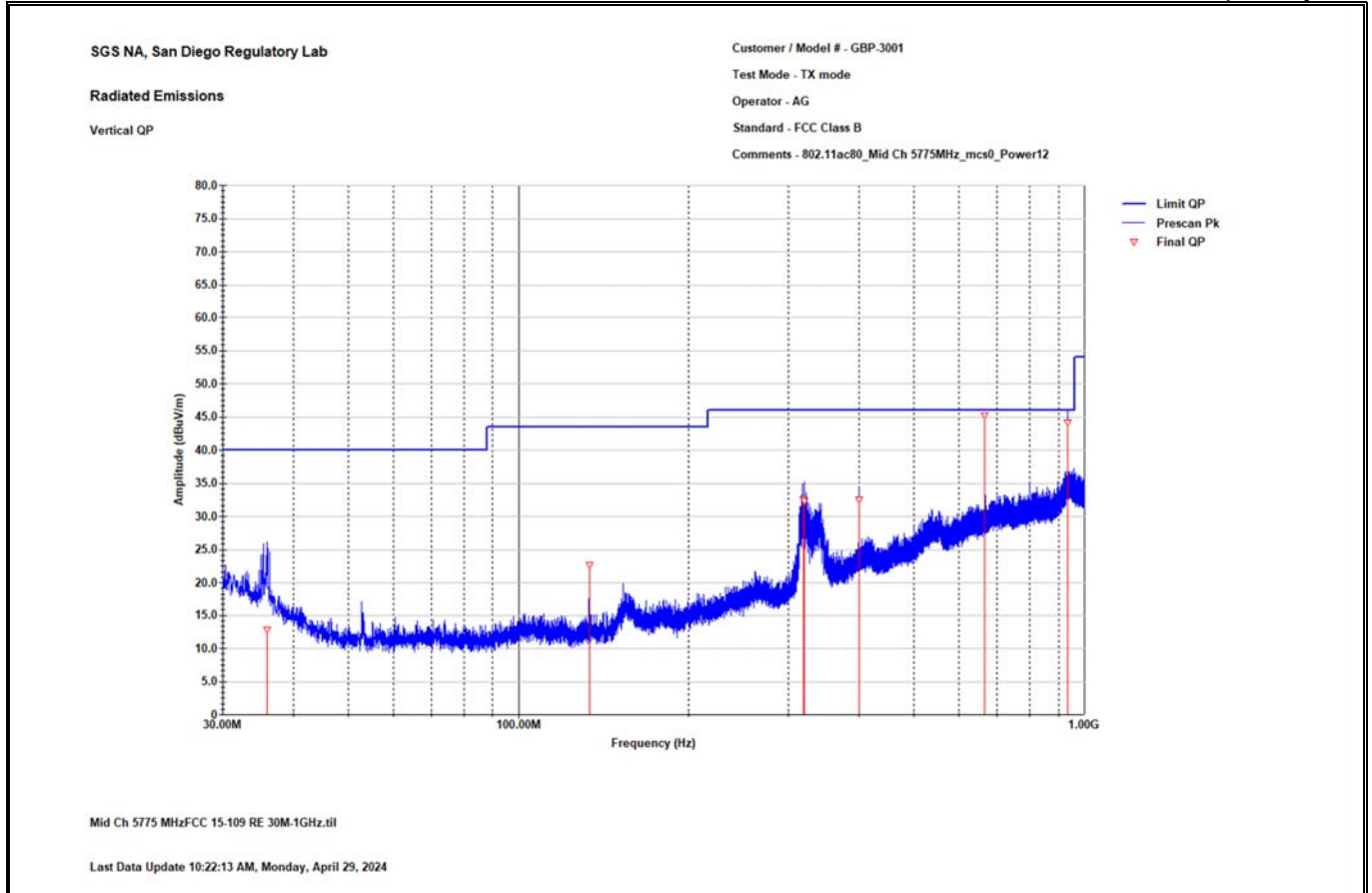
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5842.45	48.39	9.5	-25.61	74	294	351
8928.375	47.87	16.88	-26.13	74	301	366
11582.92	62.65	24.25	-11.35	74	150	155
12493.7	49.32	26.01	-24.68	74	309	324
13801	50.71	26.39	-23.29	74	354	314
15098.95	50.6	28.56	-23.4	74	400	80
16635.33	53.91	33.63	-20.09	74	248	65
17292.8	52.51	32.54	-21.49	74	370	266

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5842.45	36.45	9.5	-17.55	54	294	351
8928.375	35.89	16.88	-18.11	54	301	366
11582.92	50.64	24.25	-3.36	54	150	155
12493.7	38.38	26.01	-15.62	54	309	324
13801	36.59	26.39	-17.41	54	354	314
15098.95	38.39	28.56	-15.61	54	400	80
16635.33	40.49	33.63	-13.51	54	248	65
17292.8	40.54	32.54	-13.46	54	370	266

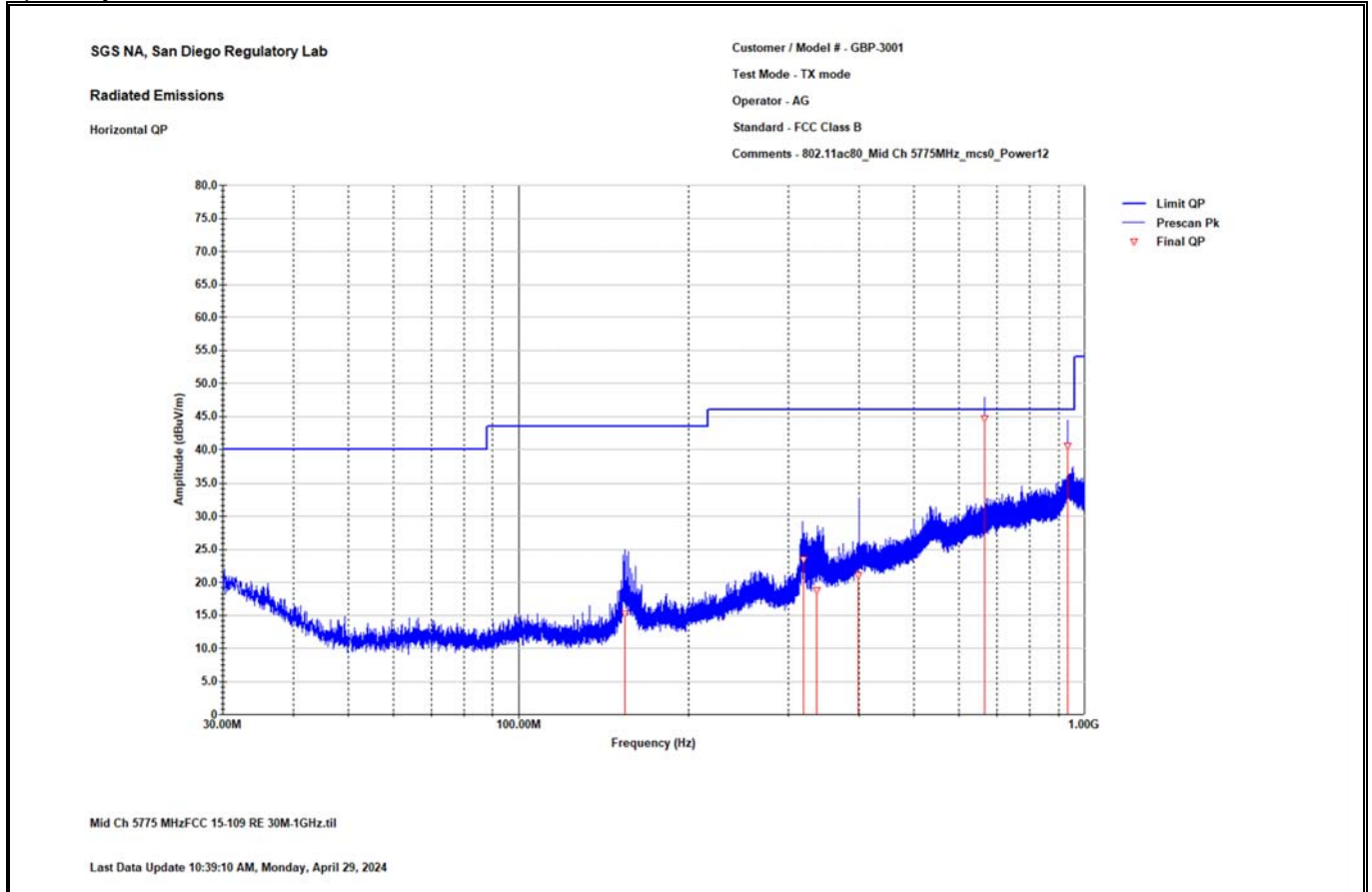
UNII-3 802.11ac VHT80 mode– 30MHz to 1GHz Worst-Case Mid Channel 5775MHz – Vertical polarity



Quasi-Peak Data

Freq. (MHz)	Final QP (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
35.936	12.86	-24.66	-27.14	40	270	37
133.353	22.61	-29.74	-20.91	43.52	100	282
318.536	32.54	-22.85	-13.48	46.02	146	72
319.473	32.21	-22.84	-13.81	46.02	138	72
400.01	32.47	-18.6	-13.55	46.02	100	368
666.71	45.16	-12.77	-0.86	46.02	114	-5
933.374	44.11	-8.41	-1.91	46.02	100	225

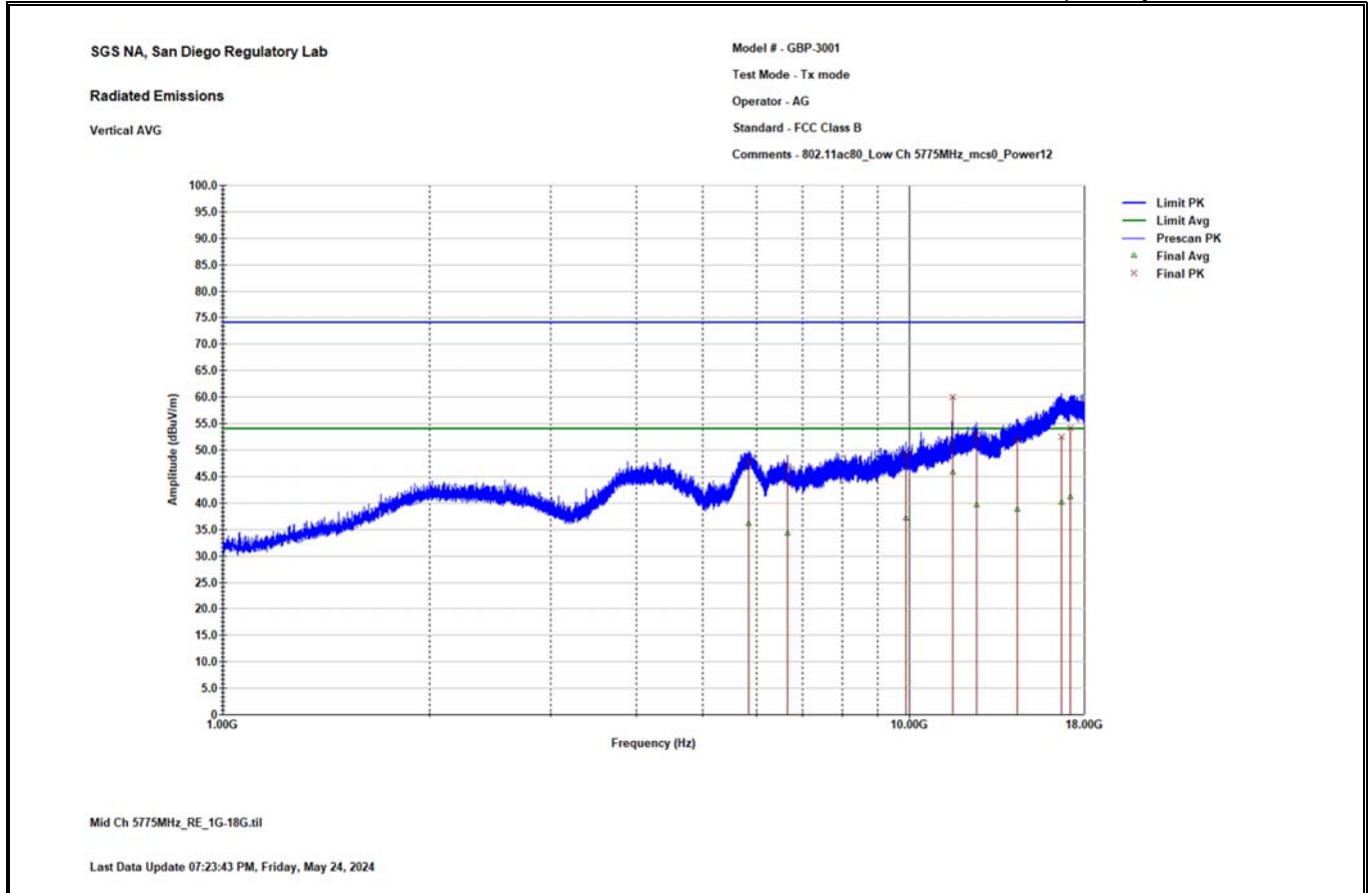
UNII-3 802.11ac VHT80 mode– 30MHz to 1GHz Worst-Case Mid Channel 5775MHz – Horizontal polarity



Quasi-Peak Data

Freq. (MHz)	Final QP (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
154.127	15.15	-26.58	-28.37	43.52	122	269
318.77	23.44	-22.85	-22.58	46.02	100	242
335.837	18.84	-22.22	-27.18	46.02	129	113
398.216	21.06	-18.7	-24.96	46.02	100	-13
666.71	44.61	-12.77	-1.41	46.02	106	25
933.404	40.55	-8.41	-5.47	46.02	106	144

UNII-3 802.11ac VHT80 mode–1GHz to 18GHz Low Channel 5775MHz – Vertical polarity



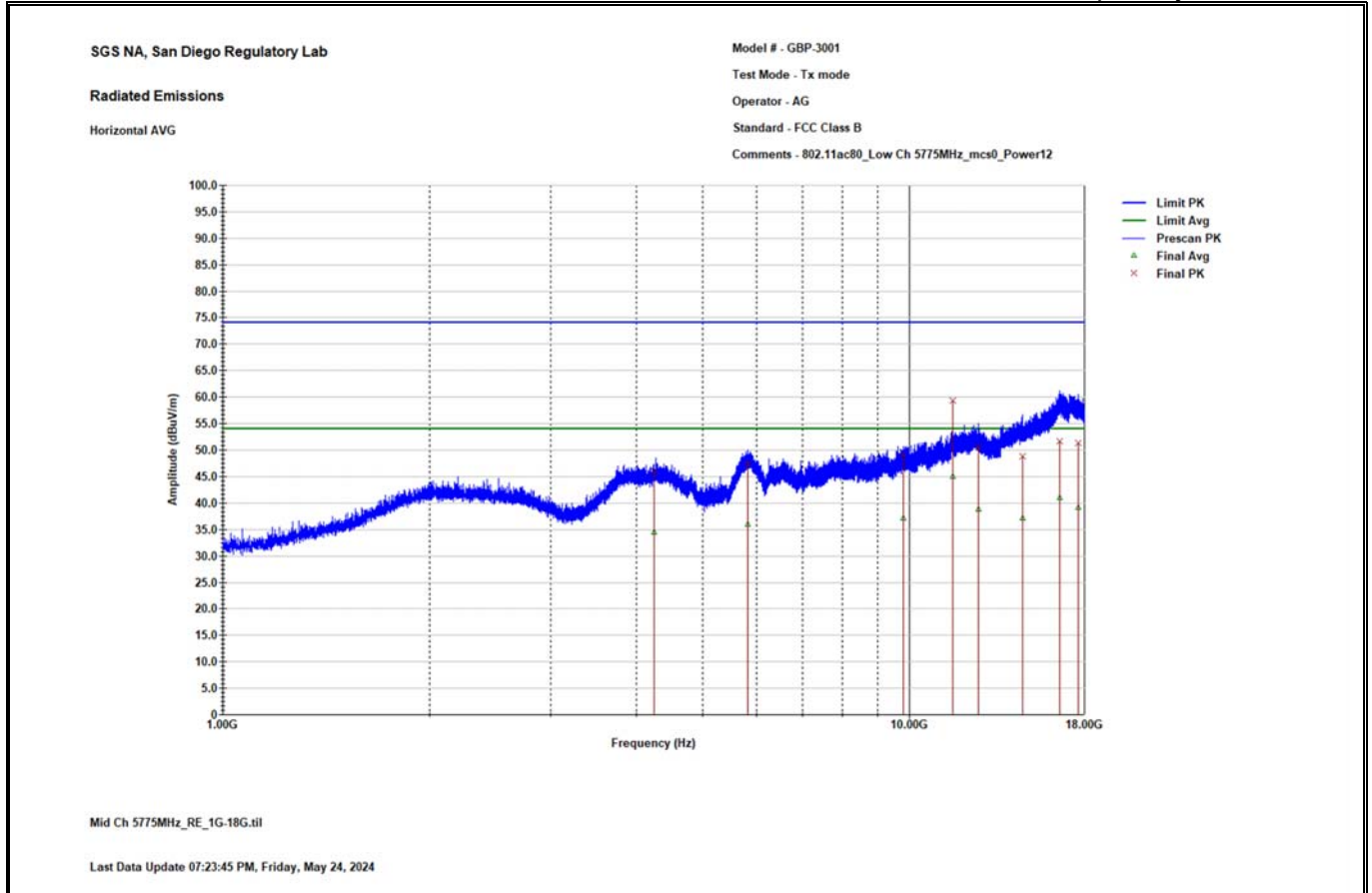
Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5828.425	47.78	9.4	-26.22	74	381	299
6645.275	46.99	11.33	-27.01	74	272	28
9891.85	49.18	19.17	-24.82	74	150	189
11565.93	59.92	24.25	-14.08	74	209	96
12529.4	52.89	26.04	-21.11	74	303	159
14363.28	51.9	27.13	-22.1	74	400	110
16673.15	52.51	33.62	-21.49	74	295	110
17188.19	54.22	32.8	-19.78	74	150	170

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
5828.425	36.22	9.4	-17.78	54	381	299
6645.275	34.36	11.33	-19.64	54	272	28
9891.85	37.14	19.17	-16.86	54	150	189
11565.93	45.89	24.25	-8.11	54	209	96
12529.4	39.64	26.04	-14.36	54	303	159
14363.28	38.87	27.13	-15.13	54	400	110
16673.15	40.16	33.62	-13.84	54	295	110
17188.19	41.09	32.8	-12.91	54	150	170

UNII-3 802.11ac VHT80 mode–1GHz to 18GHz Low Channel 5775MHz – Horizontal polarity



Peak Data

Freq. (MHz)	Final Pk (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
4242.75	45.94	5.3	-28.06	74	286	212
5821.625	47.53	9.35	-26.47	74	293	106
9801.325	49.16	19.16	-24.84	74	150	372
11574.85	59.36	24.25	-14.64	74	150	155
12620.78	50.69	26.1	-23.31	74	317	317
14610.62	48.85	27.63	-25.15	74	362	304
16543.1	51.7	33.29	-22.3	74	248	370
17629.83	51.39	32.02	-22.61	74	150	266

Average Data

Freq. (MHz)	Final Avg (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
4242.75	34.45	5.3	-19.55	54	286	212
5821.625	36.08	9.35	-17.92	54	293	106
9801.325	37.24	19.16	-16.76	54	150	372
11574.85	45.05	24.25	-8.95	54	150	155
12620.78	38.87	26.1	-15.13	54	317	317
14610.62	37.19	27.63	-16.81	54	362	304
16543.1	40.99	33.29	-13.01	54	248	370
17629.83	39.23	32.02	-14.77	54	150	266

5 Measurement Uncertainty

The measurement uncertainty figures are calculated in accordance with TR 100 028-1 [2] and correspond to an expansion factor (coverage factor) $k = 2$ (which provides confidence levels of 95.45 % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)).

Measurement uncertainty is not used to adjust the measurements to determine compliance.

Parameter	Expanded Uncertainty for Normal k factor equal to 2	
	Required	Laboratory Actual
all emissions, radiated	± 6 dB	± 4.8 dB
temperature	$\pm 1^{\circ}\text{C}$	$\pm 0.5^{\circ}\text{C}$
humidity	± 5 %	$\pm 3.5\%$

6 Revision History

Revision Level	Description of changes	Revision Date
1	Initial release	June 25, 2024