



427 West 12800 South
Draper, UT 84020

Test Report Certification

FCC ID	SWX-U6P
ISED ID	6545A-U6P
Equipment Under Test	U6+
Test Report Serial Number	TR7528_04
Date of Test(s)	August 28 through October 5, 2022
Report Issue Date	October 19, 2022

Test Specification	Applicant
47 CFR FCC Part 15, Subpart E	Ubiquiti Inc. 685 Third Avenue New York, NY 10019 U.S.A.



NVLAP LAB CODE 600241-0

Certification of Engineering Report

This report has been prepared by Unified Compliance Laboratory (UCL) to document compliance of the device described below with the requirement of Federal Communication Commissions (FCC) Part 15, Subpart E. This report may be reproduced in full. Partial reproduction of this report may only be made with the written consent of the laboratory. The results in this report apply only to the sample tested.

Applicant	Ubiquiti Inc.
Manufacturer	Ubiquiti Inc.
Brand Name	UniFi
Model Number	U6+
FCC ID	SWX-U6P
ISED ID	6545A-U6P

On this 17th day of October 2022, I individually and for Unified Compliance Laboratory certify that the statements made in this engineering report are true, complete and correct to the best of my knowledge and are made in good faith.

Although NVLAP has accredited the Unified Compliance Laboratory testing facilities, this report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the U.S. federal government.

Unified Compliance Laboratory



Written By: Clay Allred



Reviewed By: Joseph W. Jackson

Revision History		
Revision	Description	Date
01	Original Report Release	October 6, 2022
02	Added AX test data to the end of this report.	October 12, 2022
03	Revised RSS-247 references	October 17, 2022
04	Corrected NVALP expiration dates	October 19, 2022

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1 Client Information

1.1 Applicant

Company	Ubiquiti Inc. 685 Third Avenue New York, NY 10017 U.S.A.
Contact Name	Mark Feil
Title	Compliance Manager

1.2 Manufacturer

Company	Ubiquiti Inc. 685 Third Avenue New York, NY 10017 U.S.A.
Contact Name	Mark Feil
Title	Compliance Manager

2 Equipment Under Test (EUT)

2.1 Identification of EUT

Brand Name	UniFi
Model Number	U6+
Serial Number	N/A
Dimensions (cm)	16 x 16 x 0.33

2.2 Description of EUT

The U6+ is a Wi-Fi 6 access point designed for wide-ranging wireless coverage while maintaining overall network capacity. It delivers an aggregate radio rate of up to 1.5 Gbps with 5 GHz (3x3 MU-MIMO and OFDMA) and 2.4 GHz (2x2 MIMO) radios. U6-Pro uses a sophisticated antenna design with sideways amplification to offer excellent range when mounted horizontally. U6+ combines its purpose-built antenna with powerful Wi-Fi 6 features like OFDMA, beamforming, and BSS coloring for reliable long-range wireless performance.

The table below show the channels used within the different modulation bandwidths.

Band	WiFi Mode	Modulation Bandwidth	Modulation Type	Frequency (MHz)
UNII-3	a	20 MHz	OFDM	5745, 5755, 5765 5775, 5785, 5795, 5805, 5815 5825
	n	20 MHz	HT	5745, 5755, 5765 5775, 5785, 5795, 5805, 5815 5825
	n	40 MHz	HT	5755, 5775, 5795
	ac	20 MHz	VHT	5745, 5755, 5765 5775, 5785, 5795, 5805, 5815 5825
	ac	40 MHz	VHT	5755, 5775, 5795
	ac	80 MHz	VHT	5775
	ax	20 MHz	HE	5745, 5755, 5765 5775, 5785, 5795, 5805, 5815 5825
	ax	40 MHz	HE	5755, 5775, 5795
	ax	80 MHz	HE	5775

This report covers the circuitry of the device subject to FCC Part 15, Subpart E. The circuitry of the device subject to FCC Part 15 Subpart B was found to be compliant and is covered under a separate Unified Compliance Laboratory test report.

2.3 EUT and Support Equipment

The EUT and support equipment used during the test are listed below.

Brand Name Model Number Serial Number	Description	Name of Interface Ports / Interface Cables
BN: UniFi MN: U6+ SN: N/A	Wireless Access Point	See Section 2.4
BN: Ubiquiti, Inc. MN: U-POE-at SN: N/A	PoE Injector Power Supply	Shielded or Un-shielded Cat 5e cable (Note 2)
BN: Dell MN: XPS 13 SN: N/A	Laptop Computer	Shielded or Un-shielded Cat 5e cable (Note 2)

Notes: (1) EUT

(2) Interface port connected to EUT (See Section 2.4)

The support equipment listed above was not modified in order to achieve compliance with this standard.

2.4 Interface Ports on EUT

Name of Ports	No. of Ports Fitted to EUT	Cable Description/Length
PoE	1	Shielded or Un-Shielded Cat 5e Cable/> 3 meters

2.5 Operating Environment

Power Supply	48 Volts PoE
AC Mains Frequency	60 Hz
Temperature	22.1-22.8 °C
Humidity	19.3-23.9 %
Barometric Pressure	1009 mBar

2.6 Operating Modes

The U6+ was tested using test software in order to enable a constant transmission. The measurements within this report are corrected to reference a 100% duty cycle. All emission modes of 802.11 ax, a, ac and n were investigated.

2.7 EUT Exercise Software

EUT firmware version 1.0 was used to operate the transmitter using a constant transmit mode.

2.8 Block Diagram of Test Configuration

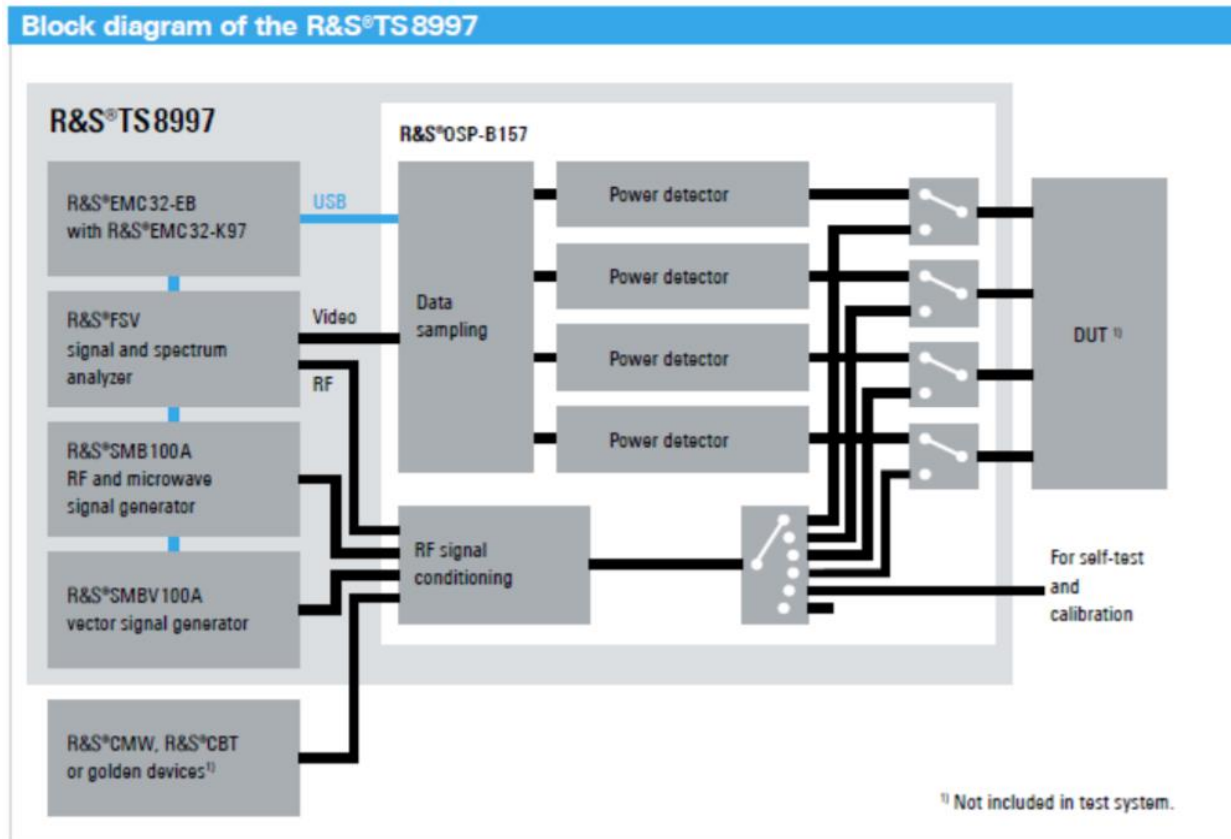


Diagram 1: Test Configuration Block Diagram

2.9 Modification Incorporated/Special Accessories on EUT

There were no modifications made to the EUT during testing to comply with the specification.

2.10 Deviation, Opinions Additional Information or Interpretations from Test Standard

There were no deviations, opinions, additional information or interpretations from the test specification.

3 Test Specification, Method and Procedures

3.1 Test Specification

Title	47 CFR FCC Part 15, Subpart E, Section 15.407 Limits and methods of measurement of radio interference characteristics of Unlicensed National Information Infrastructure Devices
Purpose of Test	The tests were performed to demonstrate initial compliance

3.2 Methods & Procedures

3.2.1 47 CFR FCC Part 15 Section 15.407

See test standard for details.

3.3 FCC Part 15, Subpart E

3.3.1 Summary of Tests

FCC Section	ISED Section	Environmental Phenomena	Frequency Range (MHZ)	Result
15.407(a)	N/A	Antenna requirements	Structural Requirement	Compliant
15.407(b)	RSS-Gen	Conducted Disturbance at Mains Port	0.15 to 30	N/A
15.407(c)	RSS-247 §6.2.4	Bandwidth Requirement	5745 to 5825	Compliant
15.407(e)	RSS-247 §6.2.4	Peak Output Power	5745 to 5825	Compliant
15.407(f)	RSS-247 §6.2.4	Antenna Conducted Spurious Emissions	0.009 to 40000	N/A
15.407(g)	RSS-247 §6.2.4	Radiated Spurious Emissions	0.009 to 40000	Compliant
15.407(h)	RSS-247 §6.2.4	Peak Power Spectral Density	5745 to 5825	Compliant
The testing was performed according to the procedures in ANSI C63.10-2013, KDB 789033 and 47 CFR Part 15. Where applicable, KDB 662911 was followed to sum required measurements.				

3.4 Results

In the configuration tested, the EUT complied with the requirements of the specification.

3.5 Test Location

Testing was performed at the Unified Compliance Laboratory 3-Meter and 10-Meter chambers located at 427 West 12800 South, Draper, UT 84020. Unified Compliance Laboratory is accredited by National Voluntary Laboratory Accreditation Program (NVLAP); NVLAP Code 600241-0 which is effective until 30 June 2023. This site has also been registered with Innovations, Science and Economic Development (ISED) department as was accepted under Appendix B, Phase 1 procedures of the APEC Tel MRA for Canadian recognition. ISED No.: 25346, effective until June 30, 2023. Unified Compliance Laboratory has been assigned Conformity Assessment Number US0223 by ISED.

4 Test Equipment

4.1 Direct Connect at the Antenna Port Tests

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
Spectrum Analyzer	R&S	FSV40	UCL-2861	1/03/2022	1/03/2023
Signal Generator	R&S	SMB100A	UCL-2864	N/A	N/A
Vector Signal Generator	R&S	SMBV100A	UCL-2873	N/A	N/A
Switch Extension	R&S	OSP-B157WX	UCL-2867	1/03/2022	1/03/2023
Switch Extension	R&S	OSP-150W	UCL-2870	1/03/2022	1/03/2023

Table 1: List of equipment used for Direct Connect at the Antenna Port

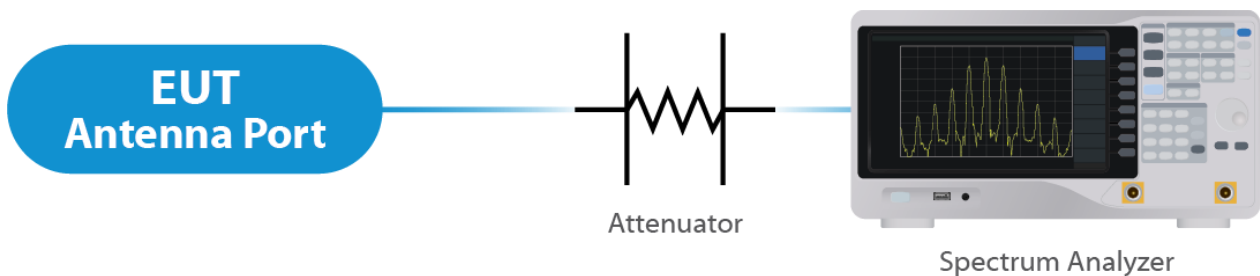


Figure 1: Direct Connect at the Antenna Port Test



Figure 2: Output Power Measurement

4.2 Radiated Emissions

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
EMI Receiver	Keysight	N9038A	UCL-2778	1/4/2022	1/4/2023
Pre-Amplifier 9 kHz – 1 GHz	Sonoma Instruments	310N	UCL-2889	10/7/2021	10/7/2022
Broadband Antenna	Scwarzbeck	VULB 9163	UCL-3062	8/28/2020	8/27/2022
Broadband Antenna	Scwarzbeck	VULB 9163	UCL-3071	5/19/2020	5/19/2022
Double Ridge Horn Antenna	Scwarzbeck	BBHA 9120D	UCL-3065	7/8/2021	7/8/2022
Log Periodic	Scwarzbeck	STLP 9129	UCL-3068	11/16/2020	11/16/2022
15 - 40 GHz Horn Antenna	Scwarzbeck	BBHA 9170	UCL-2487	5/21/2020	5/21/2022
1 – 18 GHz Amplifier	Com-Power	PAM 118A	UCL-3833	10/7/2021	10/7/2022
Test Software	UCL	Revision 1	UCL-3108	N/A	N/A

Table 2:List of equipment used for Radiated Emissions

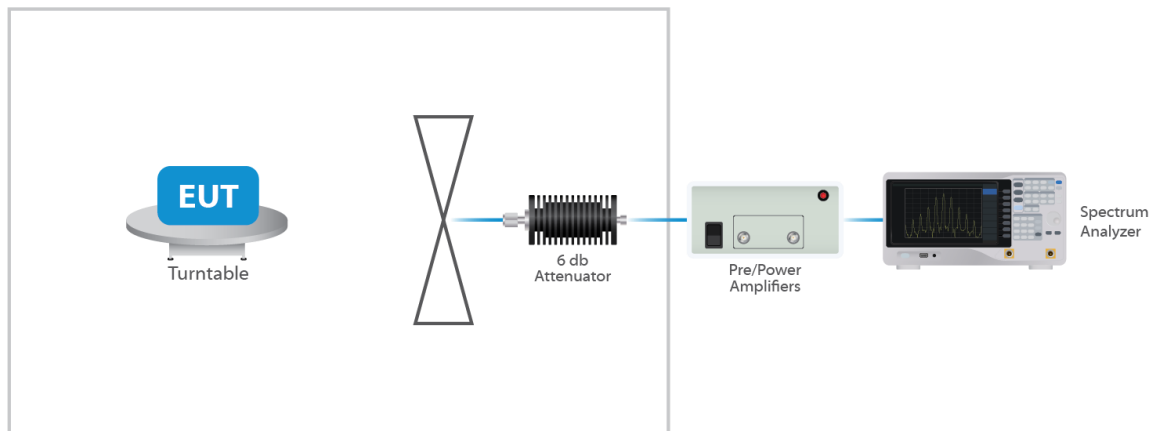


Figure 3: Radiated Emissions Test

4.3 Equipment Calibration

All applicable equipment is calibrated using either an independent calibration laboratory or Unified Compliance Laboratory personnel at intervals defined in ANSI C63.4:2014 following outlined calibration procedures. All measurement instrumentation is traceable to the National Institute of Standards and Technology (NIST). Supporting documentation relative to traceability is on file and is available for examination upon request.

4.4 Measurement Uncertainty

Test	Uncertainty ($\pm$ dB)	Confidence (%)
Conducted Emissions	1.44	95
Radiated Emissions (9 kHz to 30 MHz)	2.50	95
Radiated Emissions (30 MHz to 1 GHz)	4.38	95
Radiated Emissions (1 GHz to 18 GHz)	4.37	95
Radiated Emissions (18 GHz to 40 GHz)	3.93	95
Direct Connect Tests	K Factor	Value
Emissions Bandwidth	2	2.0%
Output Power	2	1.0 dB
Peak Power Spectral Density	2	1.3 dB
Band Edge	2	0.8 dB
Transmitter Spurious Emissions	2	1.8 dB

5 Test Results

5.1 §15.203 Antenna Requirements

The EUT uses an integral folding antenna structure. The maximum gain of the antenna per chain is 5.4 dBi. This is an 802.11 device and utilizes CDD as described in KDB 662911 D01. The antenna is not user replaceable.

For power measurements on IEEE 802.11 devices, Array Gain = 0 dB for $N_{ANT} \leq 4$;

For PSD measurements when $N_{ss}=1$: Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB = 6.02dB

Results

The EUT complied with the specification

5.2 §15.403(i) 26 dB & 99% Emissions Bandwidth

All chains were measured under the guidance of KDB 789033 Section II.C. and KDB 66291 D01. Please see associated annex for details on instrument settings.

Modulation	Nominal BW (MHz)	Frequency (MHz)	99% Bandwidth (MHz)	Emissions 26 dB Bandwidth (MHz)
OFDM	20	5745	32.1	40.0
OFDM	20	5775	34.6	40.0
OFDM	20	5825	33.0	40.0
HT	20	5745	29.2	40.0
HT	20	5775	34.8	40.0
HT	20	5825	33.3	40.0
HT	40	5755	46.3	77.7
HT	40	5775	51.5	79.9
HT	40	5795	48.8	79.8
VHT	20	5745	29.2	40.0
VHT	20	5775	36.7	40.0
VHT	20	5825	33.1	40.0
VHT	40	5755	46.0	77.8
VHT	40	5775	49.3	79.9
VHT	40	5795	48.5	79.6
VHT	80	5775	76.0	128.5
HE	20	5745	28.0	40.0
HE	20	5775	34.9	40.0
HE	20	5825	27.8	40.0
HE	40	5755	45.3	77.0
HE	40	5775	50.5	79.2
HE	40	5795	42.0	75.1
HE	80	5775	77.5	110.5

Result

All chains were tested and the highest bandwidth per chain is reported above.

The 26 dB bandwidths are reported for information purposes. Please see Annex for all bandwidth measurements.

5.3 §15.403(a)(3) Maximum Average Output Power

All chains were measured and summed under the guidance of KDB 789033 Section II. E.2. and KDB 66291 D01. Please see associated annex for details on instrument settings.

The maximum average RF conducted output power measured for this device was 28.3 dBm or 660.7 mW. The limit is 30 dBm, or 1 Watt when using antennas with 6 dBi or less gain. The antenna has a gain of 5.4 dBi.

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power *	Measured EIRP	Measured PSD
OFDM 20	5745	Mcs0	25.5	27.9	33.3	10.2
OFDM 20	5775	Mcs0	26.0	28.1	33.5	10.6
OFDM 20	5825	Mcs0	25.5	27.4	32.8	9.5
HT 20	5745	Mcs0	25.0	26.8	32.2	9.1
HT 20	5775	Mcs0	26.0	28.3	33.7	10.3
HT 20	5825	Mcs0	25.5	27.3	32.7	9.4
HT 40	5755	Mcs0	23.5	25.8	31.2	5.7
HT 40	5775	Mcs0	24.0	26.4	31.8	6.4
HT 40	5795	Mcs0	23.5	25.8	31.2	5.8
VHT 20	5745	Mcs0	25.0	26.9	32.3	9.1
VHT 20	5775	Mcs0	26.0	28.2	33.6	10.2
VHT 20	5825	Mcs0	25.5	27.3	32.7	9.3
VHT 40	5755	Mcs0	23.5	25.8	31.2	5.7
VHT 40	5775	Mcs0	23.5	25.8	31.2	5.7
VHT 40	5795	Mcs0	23.5	25.8	31.2	5.7
VHT 80	5775	Mcs0	21.5	23.7	29.1	0.6
HE 20	5745	Mcs0	25.0	26.9	32.3	8.7
HE 20	5775	Mcs0	26.0	28.2	33.6	9.8
HE 20	5825	Mcs0	25.0	26.4	31.8	8.2
HE 40	5755	Mcs0	23.5	25.9	31.3	5.6
HE 40	5775	Mcs0	24.0	26.5	31.9	6.4
HE 40	5795	Mcs0	23.0	25.4	30.8	5.1
HE 80	5775	Mcs0	21.0	23.5	28.9	0.3

Result

In the configuration tested, the maximum summed average RF output power was less than 1 watt; therefore, the EUT complied with the requirements of the specification (see example in attached Annex).

* Gated EIRP shown in the Annex is the conducted measurement

5.4 §15.407(b)(7) Spurious Emissions

5.4.1 Conducted Spurious Emissions

The frequency range from the lowest frequency generated or used in the device to the tenth harmonic of the highest fundamental frequency was investigated to measure any antenna-conducted emissions. The graphs show the measurement data from spurious emissions noted across the frequency range when transmitting at the lowest frequency, middle frequency and upper frequency. Shown within the annex are plots with the EUT turned to the upper and lower channels with the antenna gain of 3 dBi accounted for. These demonstrate compliance with the provisions of this section at the band edges.

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.

Result

Conducted spurious emissions were attenuated below the limit; therefore, the EUT complies with the specification. The plots contained at the end of the annex are to show the measurement settings utilized for Tx Spurious Emission throughout the test report. For example: the mask seen on page 9 of 86 in the annex is superimposed on the plot seen on page 59 of 86.

5.4.2 Radiated Spurious Emissions in the Restricted Bands of § 15.205

The EUT uses various power settings based on the channel in use. In order to reduce test time, the radiated spurious emissions at the lowest, middle, and highest channel were measured at the maximum power of TP49.

Correction Factor = Antenna Factor + Cable Loss - Pre-amp Gain, and is added to the Receiver Reading

Result

All emissions in the restricted bands of § 15.205 met the limits specified in § 15.209; therefore, the EUT complies with the specification. See Annex for Conducted Band edge plots.

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Meas. Time (s)	RBW (Hz)	Detector	Correction (dB)
11.548 GHz	56.88	74	-17.12	212	3.798	Vertical	5	1000000	Peak	3.085
15.021 GHz	51.988	74	-22.012	3	2.325	Vertical	5	1000000	Peak	7.966
11.548 GHz	42.573	54	-11.427	212	3.798	Vertical	5	1000000	Average	3.085
15.021 GHz	38.936	54	-15.064	3	2.325	Vertical	5	1000000	Average	7.966
6.0438 GHz	50.421	74	-23.579	170	1.5	Horizontal	5	1000000	Peak	-8.138
11.546 GHz	60.091	74	-13.909	164	1.638	Horizontal	5	1000000	Peak	3.07
6.0438 GHz	29.552	54	-24.448	170	1.5	Horizontal	5	1000000	Average	-8.138
11.546 GHz	45.44	54	-8.56	164	1.638	Horizontal	5	1000000	Average	3.07
11.476 GHz	48.831	74	-25.169	164	1.834	Vertical	5	1000000	Peak	3.587
14.915 GHz	51.452	74	-22.548	207	2.645	Vertical	5	1000000	Peak	7.239

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Meas. Time (s)	RBW (Hz)	Detector	Correction (dB)
11.476 GHz	35.953	54	-18.047	164	1.834	Vertical	5	1000000	Average	3.587
14.915 GHz	38.002	54	-15.998	207	2.645	Vertical	5	1000000	Average	7.239
11.491 GHz	52.055	74	-21.945	140	1.5	Horizontal	5	1000000	Peak	3.246
15.158 GHz	52.025	74	-21.975	54	2.146	Horizontal	5	1000000	Peak	7.35
11.491 GHz	38.073	54	-15.927	140	1.5	Horizontal	5	1000000	Average	3.246
15.158 GHz	38.988	54	-15.012	54	2.146	Horizontal	5	1000000	Average	7.35
6.0101 GHz	52.216	74	-21.784	261	3.802	Vertical	5	1000000	Peak	-8.706
11.65 GHz	55.433	74	-18.567	209	3.307	Vertical	5	1000000	Peak	3.073
6.0101 GHz	31.153	54	-22.847	261	3.802	Vertical	5	1000000	Average	-8.706
11.65 GHz	41.062	54	-12.938	209	3.307	Vertical	5	1000000	Average	3.073
6.0273 GHz	52.598	74	-21.402	169	3.307	Horizontal	5	1000000	Peak	-8.429
11.653 GHz	56.075	74	-17.925	181	2.324	Horizontal	5	1000000	Peak	3.184
6.0273 GHz	31.798	54	-22.202	169	3.307	Horizontal	5	1000000	Average	-8.429
11.653 GHz	41.779	54	-12.221	181	2.324	Horizontal	5	1000000	Average	3.184
17.325 GHz	58.364	74	-15.636	36	1.5	Vertical	5	1000000	Peak	-5.443
17.325 GHz	44.485	54	-9.515	36	1.5	Vertical	5	1000000	Average	-5.443
17.328 GHz	59.248	74	-14.752	50	1.5	Horizontal	5	1000000	Peak	-5.415
17.328 GHz	45.115	54	-8.885	50	1.5	Horizontal	5	1000000	Average	-5.415
17.238 GHz	59.793	74	-14.207	23	1.5	Vertical	5	1000000	Peak	-5.053
17.238 GHz	45.523	54	-8.477	23	1.5	Vertical	5	1000000	Average	-5.053
17.225 GHz	60.662	74	-13.338	328	1.5	Horizontal	5	1000000	Peak	-5.091
17.225 GHz	45.266	54	-8.734	328	1.5	Horizontal	5	1000000	Average	-5.091
17.484 GHz	63.163	74	-10.837	357	1.5	Vertical	5	1000000	Peak	-5.406
17.484 GHz	47.698	54	-6.302	357	1.5	Vertical	5	1000000	Average	-5.406
17.486 GHz	60.376	74	-13.624	56	1.5	Horizontal	5	1000000	Peak	-5.41
17.486 GHz	44.478	54	-9.522	56	1.5	Horizontal	5	1000000	Average	-5.41

5.5 §15.407(a) Maximum Power Spectral Density

All chains were measured and summed under the guidance of KDB 789033 Section II. F. and KDB 66291 D01. Please see associated annex for details on instrument settings.

The maximum average power spectral density conducted from the intentional radiator of the antenna shall not be greater than 30 dBm in any 500 kHz band during any time interval of continuous transmission.

As per KDB 662911, When the EUT is using spatial-multiplexing in HE modes, there is not additional array gain to accommodate. When the EUT uses Nss=1 data rates, the antenna gain is 5.4 dBi.

Results of this testing are summarized.

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power *	Measured EIRP	Measured PSD
OFDM 20	5745	Mcs0	25.5	27.9	33.3	10.2
OFDM 20	5775	Mcs0	26.0	28.1	33.5	10.6
OFDM 20	5825	Mcs0	25.5	27.4	32.8	9.5
HT 20	5745	Mcs0	25.0	26.8	32.2	9.1
HT 20	5775	Mcs0	26.0	28.3	33.7	10.3
HT 20	5825	Mcs0	25.5	27.3	32.7	9.4
HT 40	5755	Mcs0	23.5	25.8	31.2	5.7
HT 40	5775	Mcs0	24.0	26.4	31.8	6.4
HT 40	5795	Mcs0	23.5	25.8	31.2	5.8
VHT 20	5745	Mcs0	25.0	26.9	32.3	9.1
VHT 20	5775	Mcs0	26.0	28.2	33.6	10.2
VHT 20	5825	Mcs0	25.5	27.3	32.7	9.3
VHT 40	5755	Mcs0	23.5	25.8	31.2	5.7
VHT 40	5775	Mcs0	23.5	25.8	31.2	5.7
VHT 40	5795	Mcs0	23.5	25.8	31.2	5.7
VHT 80	5775	Mcs0	21.5	23.7	29.1	0.6
HE 20	5745	Mcs0	25.0	26.9	32.3	8.7
HE 20	5775	Mcs0	26.0	28.2	33.6	9.8
HE 20	5825	Mcs0	25.0	26.4	31.8	8.2
HE 40	5755	Mcs0	23.5	25.9	31.3	5.6
HE 40	5775	Mcs0	24.0	26.5	31.9	6.4
HE 40	5795	Mcs0	23.0	25.4	30.8	5.1
HE 80	5775	Mcs0	21.0	23.5	28.9	0.3

Result

The maximum summed average power spectral density was less than the limit of 30 dBm while in Nss1 mode.

Test Results AX mode

(Note AX mode is considered worst case and is displayed here. All other modes were tested but omitted due to report size.)

FCC 15.407 2018

DUT Information

Frequencies

WLAN CH 36 (5180 MHz)	WLAN CH 38 (5190 MHz)	WLAN CH 40 (5200 MHz)
WLAN CH 42 (5210 MHz)	WLAN CH 44 (5220 MHz)	WLAN CH 46 (5230 MHz)
WLAN CH 48 (5240 MHz)	WLAN CH 50 (5250 MHz)	WLAN CH 52 (5260 MHz)
WLAN CH 54 (5270 MHz)	WLAN CH 56 (5280 MHz)	WLAN CH 58 (5290 MHz)
WLAN CH 60 (5300 MHz)	WLAN CH 62 (5310 MHz)	WLAN CH 64 (5320 MHz)
WLAN CH 100 (5500 MHz)	WLAN CH 102 (5510 MHz)	WLAN CH 104 (5520 MHz)
WLAN CH 106 (5530 MHz)	WLAN CH 108 (5540 MHz)	WLAN CH 110 (5550 MHz)
WLAN CH 112 (5560 MHz)	WLAN CH 114 (5570 MHz)	WLAN CH 116 (5580 MHz)
WLAN CH 118 (5590 MHz)	WLAN CH 120 (5600 MHz)	WLAN CH 122 (5610 MHz)
WLAN CH 124 (5620 MHz)	WLAN CH 126 (5630 MHz)	WLAN CH 128 (5640 MHz)
WLAN CH 130 (5650 MHz)	WLAN CH 132 (5660 MHz)	WLAN CH 134 (5670 MHz)
WLAN CH 136 (5680 MHz)	WLAN CH 138 (5690 MHz)	WLAN CH 140 (5700 MHz)
WLAN CH 142 (5710 MHz)	WLAN CH 144 (5720 MHz)	WLAN CH 149 (5745 MHz)
WLAN CH 151 (5755 MHz)	WLAN CH 153 (5765 MHz)	WLAN CH 155 (5775 MHz)
WLAN CH 157 (5785 MHz)	WLAN CH 159 (5795 MHz)	WLAN CH 161 (5805 MHz)
WLAN CH 163 (5815 MHz)	WLAN CH 165 (5825 MHz)	

Bandwidths

20 MHz (20 MHz)	40 MHz (40 MHz)	80 MHz (80 MHz)
160 MHz (160 MHz)		

Power

24.000 dBm (24 dBm)

Beamforming Gain

Powerstep name (value)
24.000 dBm (24 dBm)

Beamforming gain table names

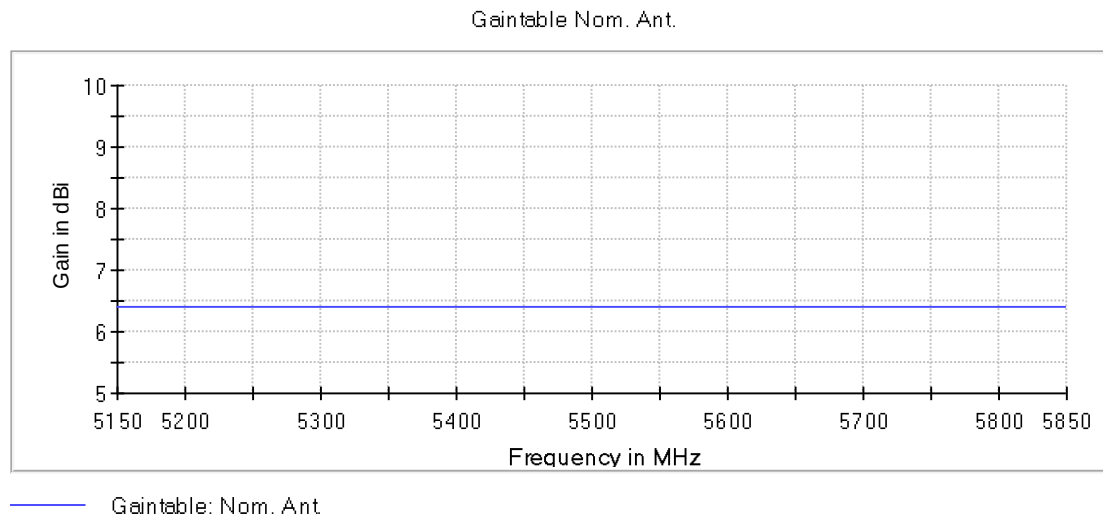
Gain Tables

Powerstep name (value)
24.000 dBm (24 dBm)

Gain table names
Port 1: Nom. Ant.; Port 2: Nom. Ant.;

DUT Settings

No. of transmission chains	2
DFS capability	Yes
DFS Mode	Client with radar detection
Equipment Type	Outdoor AP
TPC	No



Hardware Setup: WMS Measurements\TS8997 Hardware Setup

Spectrum Analyzer:	SA FSV 40 (SA FSV 40) @ VISA (ADR TCPIP::192.168.48.100::inst0::instr), SN 1321.3008K40/101752, FW 3.70
Vector Generator:	VG SMW200A (VG SMW200A) @ VISA (ADR TCPIP0::A-N5182B-301471::inst0::INSTR), SN 101752, FW 3.70
Generator:	SMB100A (SMB100A) @ VISA (ADR TCPIP::192.168.48.110::inst0::INSTR), SN 180599, FW 3.20.390.24 / Drv:Rev 2.21.0, 07/2016, CVI 2015
OSP:	OSP-B157W8PLUS (OSP-B157W8PLUS) @ VISA (ADR TCPIP::192.168.48.157::inst0::instr), SN 1527.1144.06 / 100955, FW 2.00.1.0

Summary

Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
Emission Bandwidth 26 dB	5745.000	24.0	20.000000	PASS
RF output power	5745.000	24.0	20.000000	PASS
Power Spectral Density	5745.000	24.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	5745.000	24.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5745.000	24.0	20.000000	PASS
Tx Spurious Emission	5745.000	24.0	20.000000	PASS
Emission Bandwidth 26 dB	5775.000	24.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	5775.000	24.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5775.000	24.0	20.000000	PASS
Tx Spurious Emission	5775.000	24.0	20.000000	PASS
Emission Bandwidth 26 dB	5825.000	24.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	5825.000	24.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5825.000	24.0	20.000000	PASS
Tx Spurious Emission	5825.000	24.0	20.000000	PASS
Emission Bandwidth 26 dB	5755.000	24.0	40.000000	PASS
Minimum Emission Bandwidth 6 dB	5755.000	24.0	40.000000	PASS
Occupied Channel Bandwidth 99%	5755.000	24.0	40.000000	PASS
Tx Spurious Emission	5755.000	24.0	40.000000	PASS
Emission Bandwidth 26 dB	5775.000	24.0	40.000000	PASS
Minimum Emission Bandwidth 6 dB	5775.000	24.0	40.000000	PASS
Occupied Channel Bandwidth 99%	5775.000	24.0	40.000000	PASS
Tx Spurious Emission	5775.000	24.0	40.000000	PASS
Emission Bandwidth 26 dB	5795.000	24.0	40.000000	PASS
Minimum Emission Bandwidth 6 dB	5795.000	24.0	40.000000	PASS
Occupied Channel Bandwidth 99%	5795.000	24.0	40.000000	PASS
Tx Spurious Emission	5795.000	24.0	40.000000	PASS
Emission Bandwidth 26 dB	5775.000	24.0	80.000000	PASS
Minimum Emission Bandwidth 6 dB	5775.000	24.0	80.000000	PASS
Occupied Channel Bandwidth 99%	5775.000	24.0	80.000000	PASS
Tx Spurious Emission	5775.000	24.0	80.000000	PASS

Emission Bandwidth 26 dB (5745 MHz; 24.000 dBm; 20 MHz)

Customized settings.

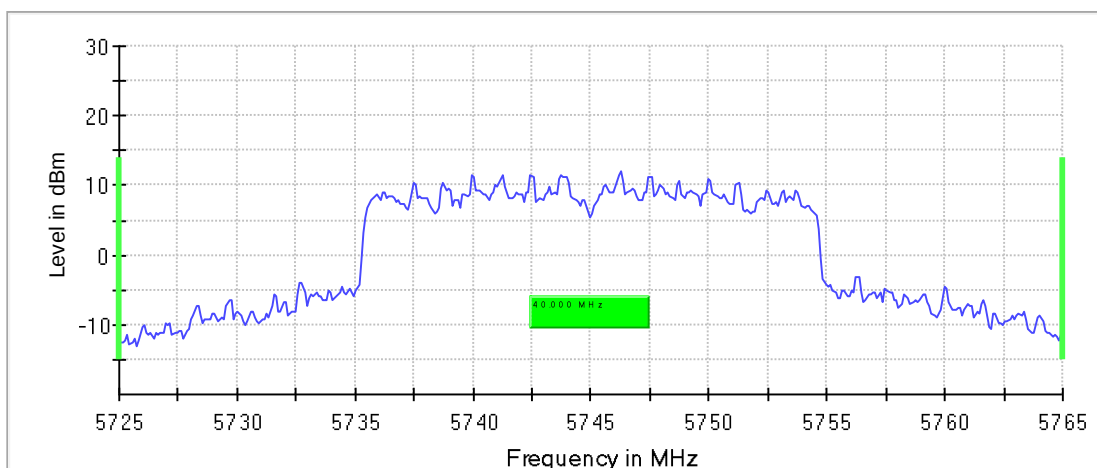
26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5745.000000	40.000000	---	---	5725.000000	5765.000000

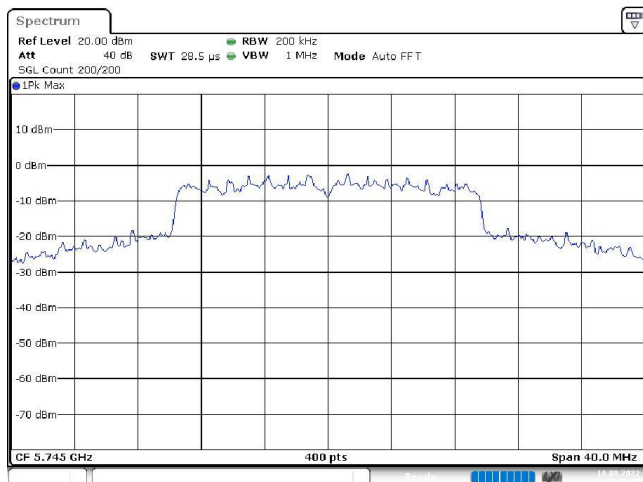
(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5745.000000	12.1	PASS

26 dB Bandwidth



Bandwidth



Date: 18.AUG.2022 02:43:45

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.72500 GHz	5.72500 GHz
Stop Frequency	5.76500 GHz	5.76500 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
Sweeptime	28.477 μs	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

RF output power (5745 MHz; 24.000 dBm; 20 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5745.000000	26.8	30.0	26.8	90.032	PASS

OSP PowerMeter settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

Power Spectral Density (5745 MHz; 24.000 dBm; 20 MHz)

Customized settings.

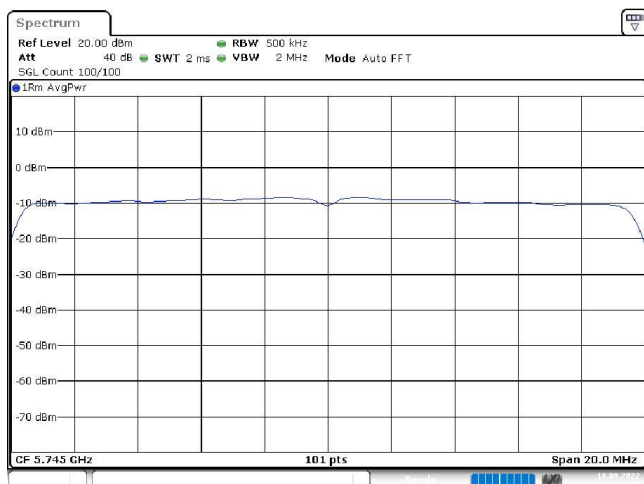
Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5745.000000	5746.188119	8.689	30.0	PASS

Ports

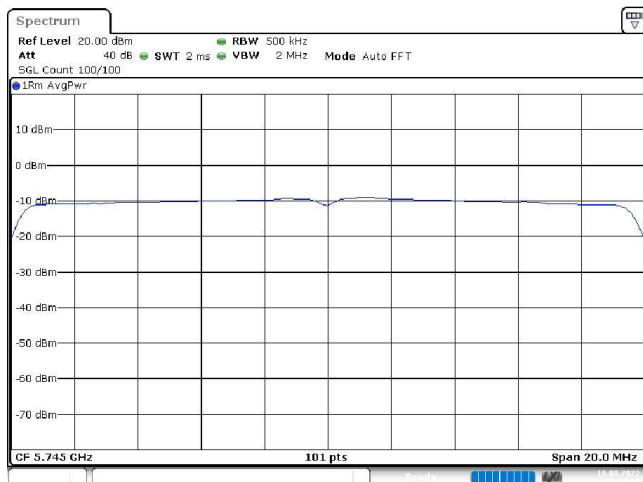
Port	State
1	used
2	used

PSD Connector 1



Date: 18.AUG.2022 02:44:22

PSD Connector 2



Date: 18.AUG.2022 02:44:28

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.73500 GHz	5.73500 GHz
Stop Frequency	5.75500 GHz	5.75500 GHz
Span	20.000 MHz	20.000 MHz
RBW	500.000 kHz	<= 500.000 kHz
VBW	2.000 MHz	>= 1.500 MHz
SweepPoints	101	~ 80
SweepTime	2.020 ms	2.020 ms
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Power	Average Power
SweepType	FFT	AUTO
Preamp	off	off

Minimum Emission Bandwidth 6 dB (5745 MHz; 24.000 dBm; 20 MHz)

Customized settings.

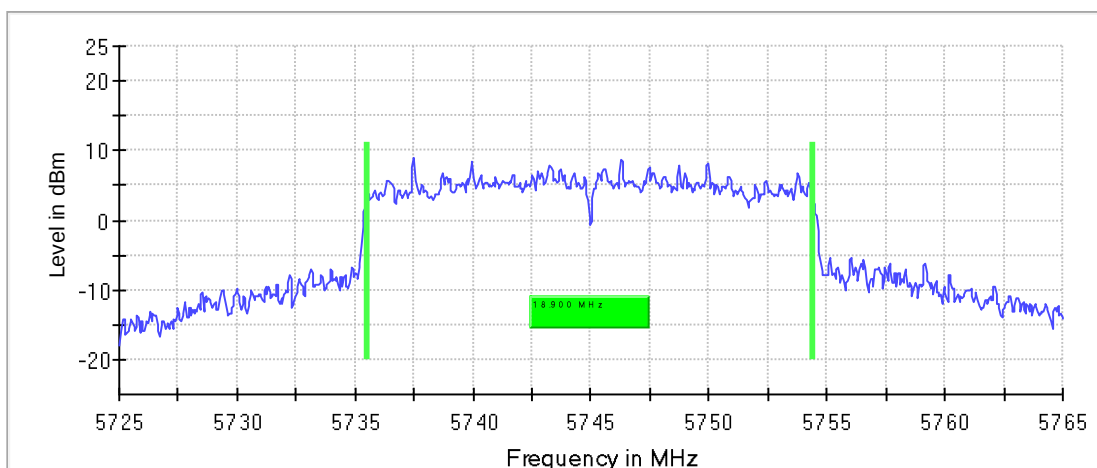
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5745.000000	18.900000	0.500000	---	5735.475000	5754.375000

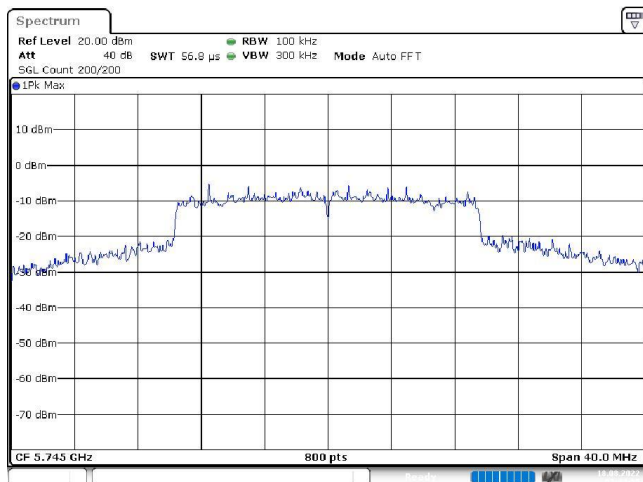
(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5745.000000	9.1	PASS

6 dB Bandwidth



Bandwidth



Date: 18.AUG.2022 02:44:35

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.72500 GHz	5.72500 GHz
Stop Frequency	5.76500 GHz	5.76500 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
SweepTime	56.836 μs	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Occupied Channel Bandwidth 99% (5745 MHz; 24.000 dBm; 20 MHz)

Customized settings.

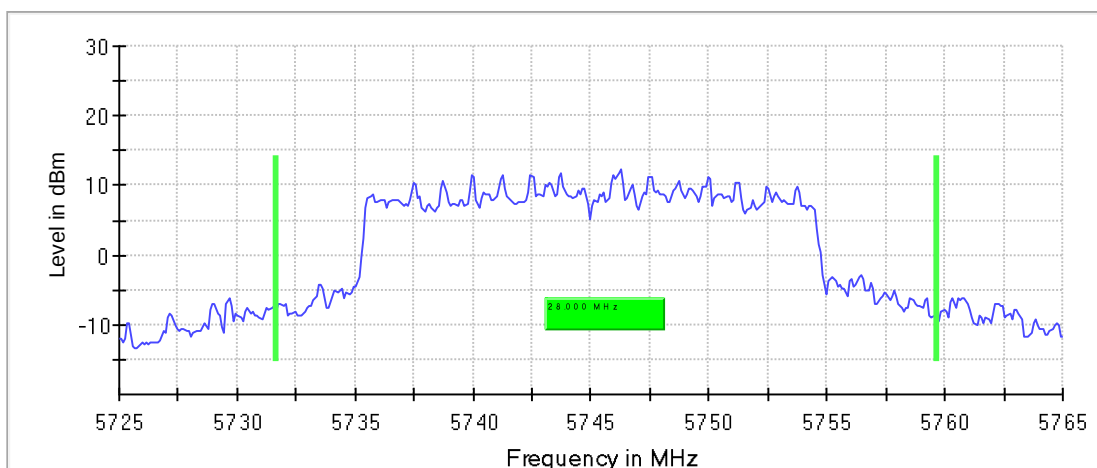
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5745.000000	28.000000	---	---	5731.650000	5759.650000

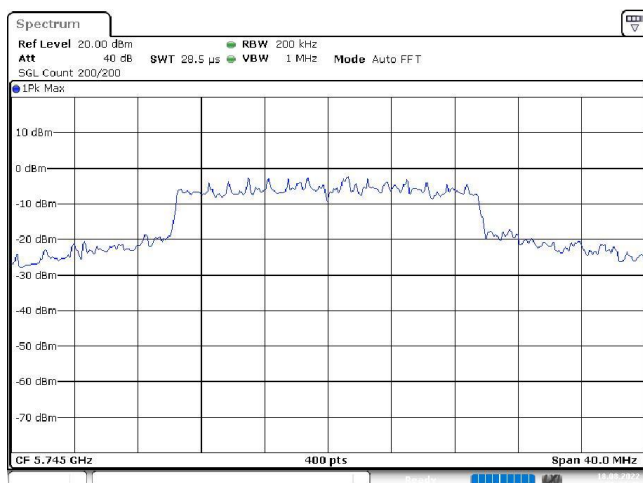
(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
5745.000000	PASS

99 % Bandwidth



Bandwidth



Date: 18.AUG.2022 02:44:42

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.72500 GHz	5.72500 GHz
Stop Frequency	5.76500 GHz	5.76500 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	≥ 200.000 kHz
VBW	1.000 MHz	≥ 600.000 kHz
SweepPoints	400	~ 400
SweepTime	28.477 μ s	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Tx Spurious Emission (5745 MHz; 24.000 dBm; 20 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
5745.000000	PASS

Final measurements

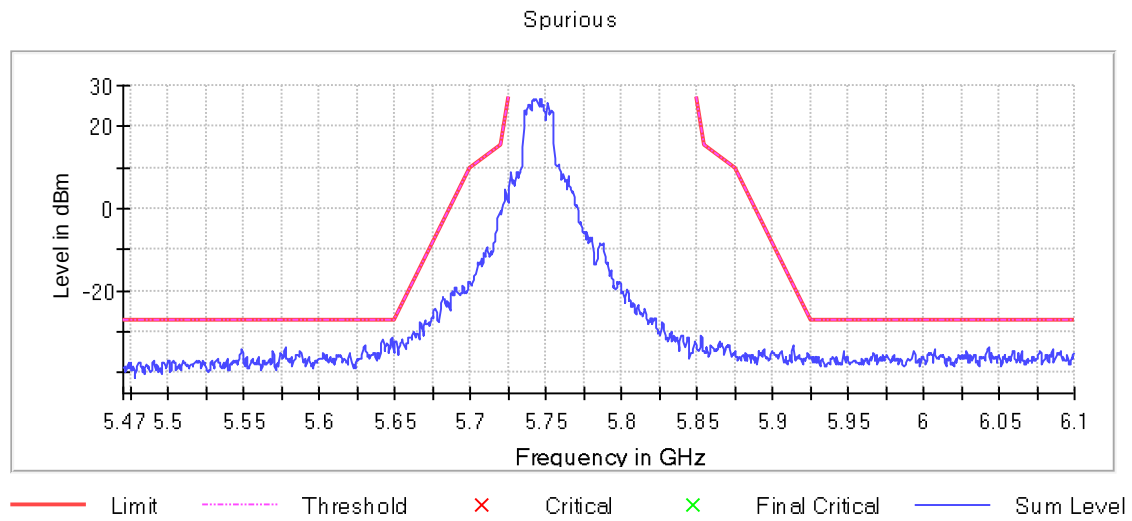
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

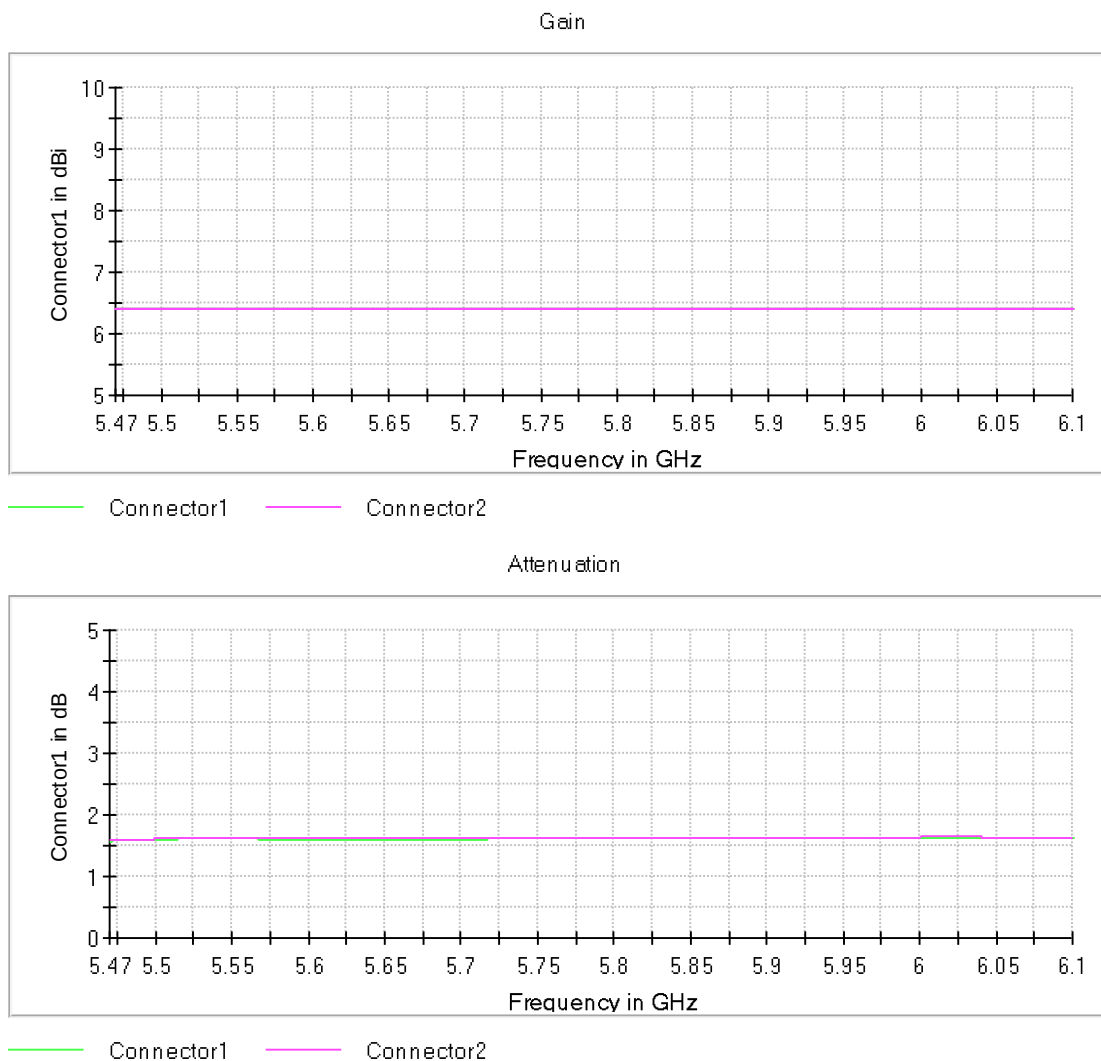
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5647.750000	-31.5	4.5	-27.0
5641.750000	-31.8	4.8	-27.0
5642.250000	-31.9	4.9	-27.0
5647.250000	-32.0	5.0	-27.0
5648.250000	-32.0	5.0	-27.0
5641.250000	-32.7	5.7	-27.0
5650.250000	-32.6	5.7	-26.8
5644.750000	-32.8	5.8	-27.0
5650.750000	-32.5	6.0	-26.4
5629.750000	-33.1	6.1	-27.0
5645.250000	-33.2	6.2	-27.0
5642.750000	-33.3	6.3	-27.0
5648.750000	-33.4	6.4	-27.0
5651.250000	-32.5	6.4	-26.1
5644.250000	-33.5	6.5	-27.0

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
5470.000000	6100.000000	2	2





Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	≤ 1.000 MHz
VBW	3.000 MHz	≥ 3.000 MHz
SweepPoints	1260	~ 1260
SweepTime	85.781 μ s	AUTO
Reference Level	20.000 dBm	-10.000 dBm
Attenuation	30.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Emission Bandwidth 26 dB (5775 MHz; 24.000 dBm; 20 MHz)

Customized settings.

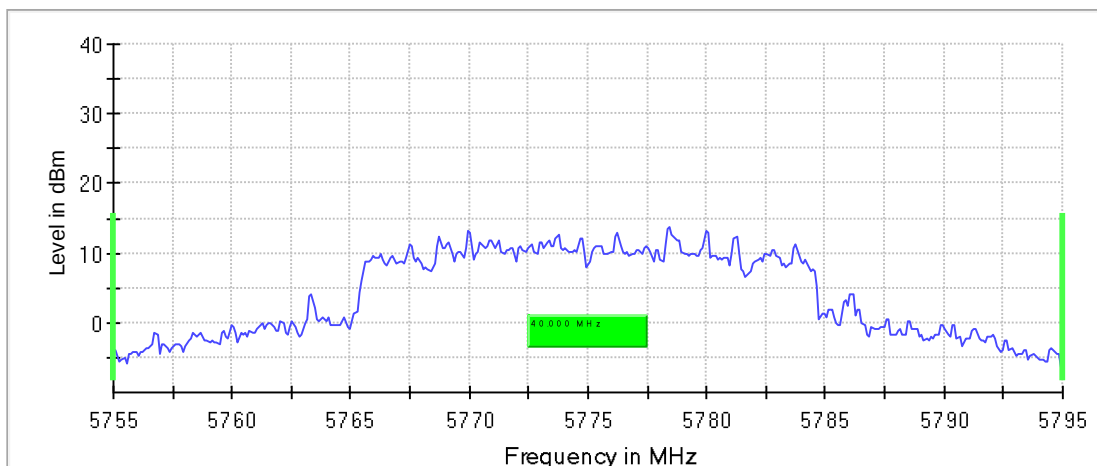
26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5775.000000	40.000000	---	---	5755.000000	5795.000000

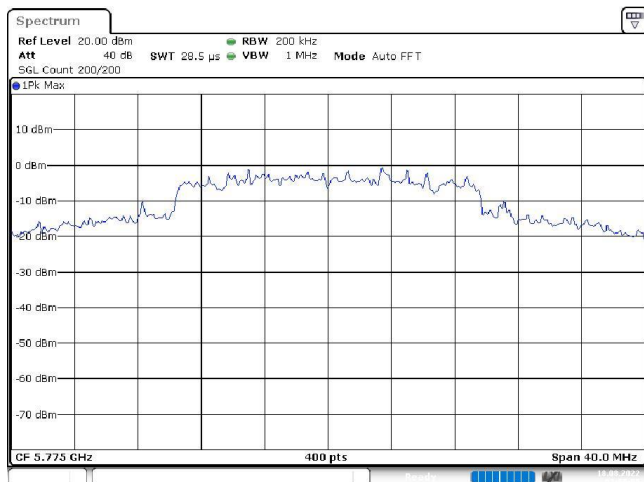
(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5775.000000	13.7	PASS

26 dB Bandwidth



Bandwidth



Date: 18.AUG.2022 02:50:55

Minimum Emission Bandwidth 6 dB (5775 MHz; 24.000 dBm; 20 MHz)

Customized settings.

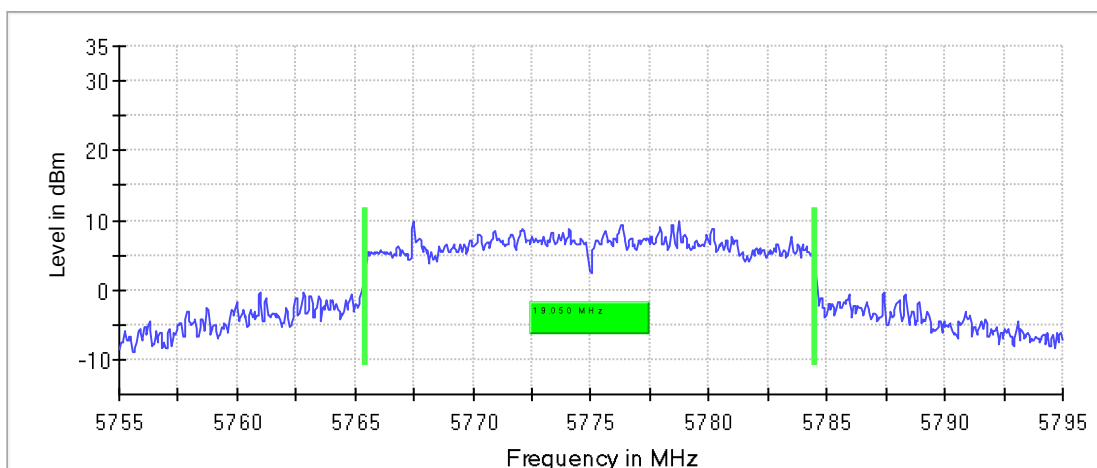
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5775.000000	19.050000	0.500000	---	5765.425000	5784.475000

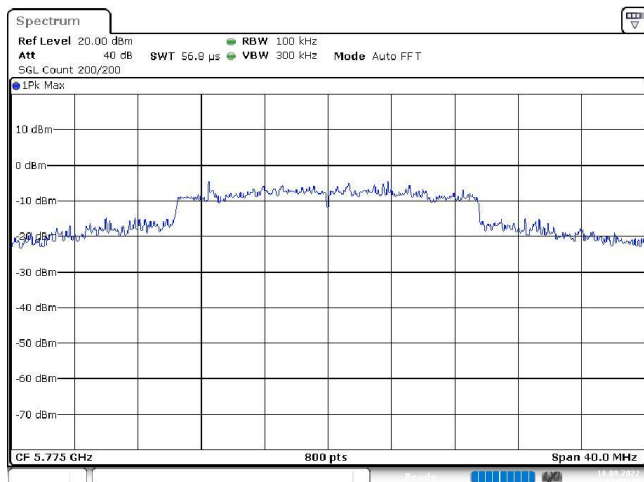
(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5775.000000	9.9	PASS

6 dB Bandwidth



Bandwidth



Date: 18.AUG.2022 02:51:44

Occupied Channel Bandwidth 99% (5775 MHz; 24.000 dBm; 20 MHz)

Customized settings.

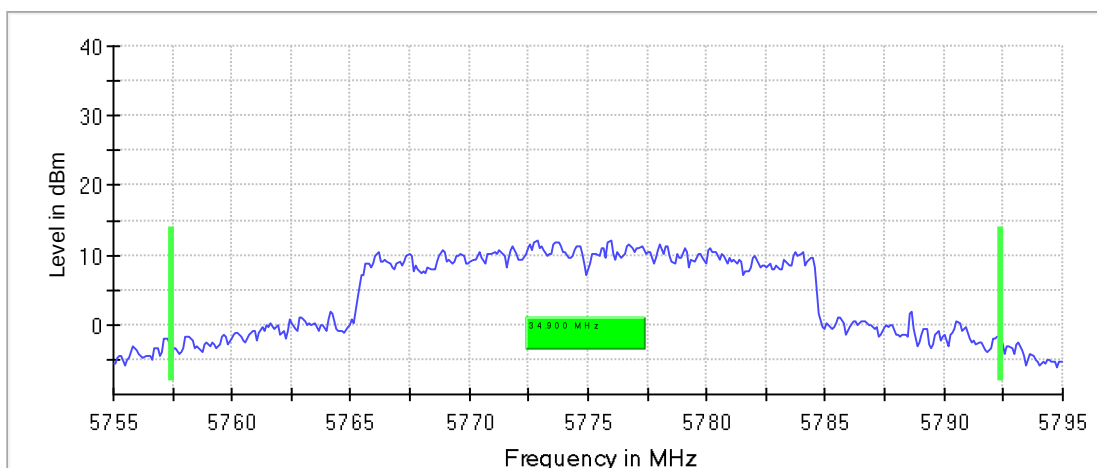
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5775.000000	34.900000	---	---	5757.450000	5792.350000

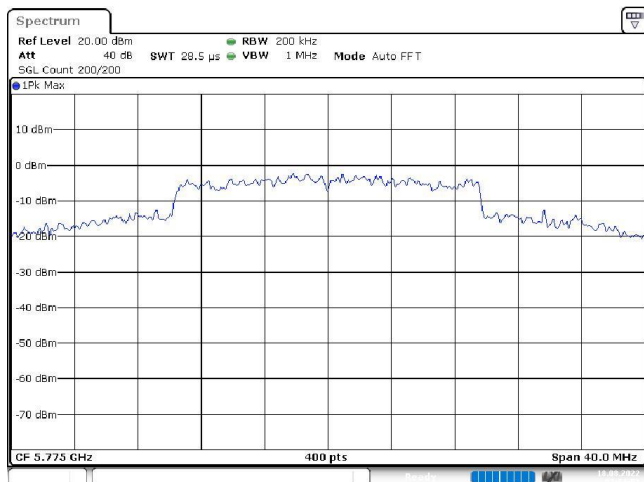
(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
5775.000000	PASS

99 % Bandwidth



Bandwidth



Date: 18.AUG.2022 02:51:52

Tx Spurious Emission (5775 MHz; 24.000 dBm; 20 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
5775.000000	PASS

Final measurements

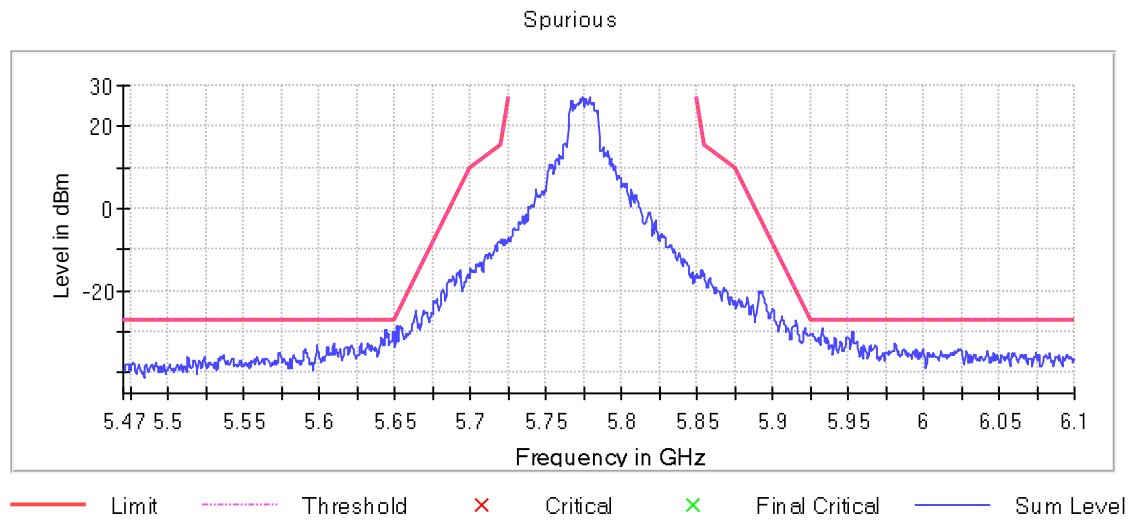
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

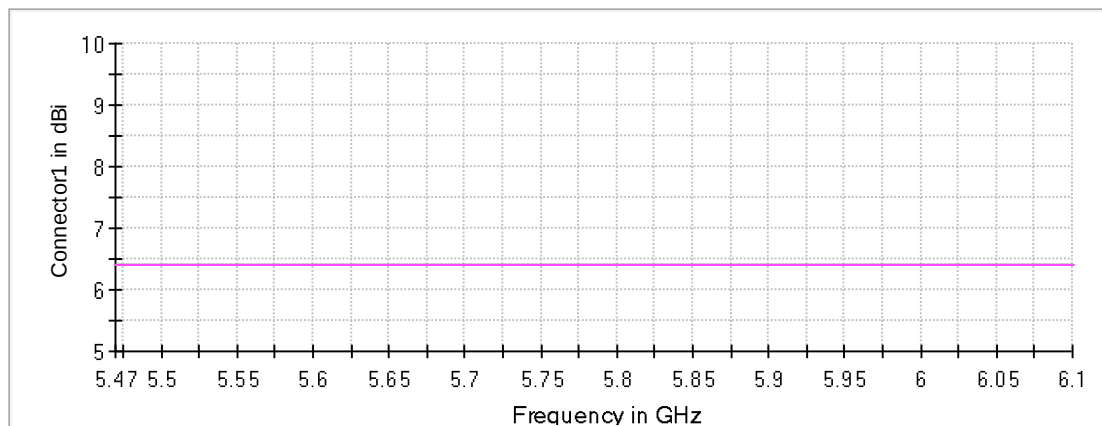
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5932.750000	-29.1	2.1	-27.0
5933.250000	-29.1	2.1	-27.0
5651.250000	-28.5	2.4	-26.1
5643.750000	-29.6	2.6	-27.0
5644.250000	-29.7	2.7	-27.0
5953.250000	-30.0	3.0	-27.0
5651.750000	-28.7	3.0	-25.7
5648.750000	-30.1	3.1	-27.0
5952.750000	-30.1	3.1	-27.0
5649.250000	-30.1	3.1	-27.0
5925.250000	-30.3	3.3	-27.0
5643.250000	-30.4	3.4	-27.0
5933.750000	-30.4	3.4	-27.0
5925.750000	-30.4	3.4	-27.0
5926.750000	-30.6	3.6	-27.0

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
5470.000000	6100.000000	2	2

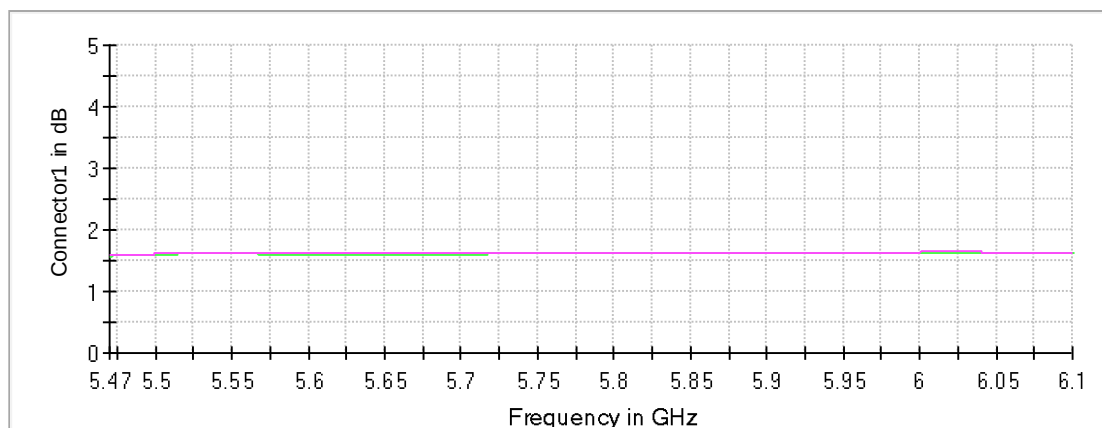


Gain



Connector1 Connector2

Attenuation



Connector1 Connector2

Emission Bandwidth 26 dB (5825 MHz; 24.000 dBm; 20 MHz)

Customized settings.

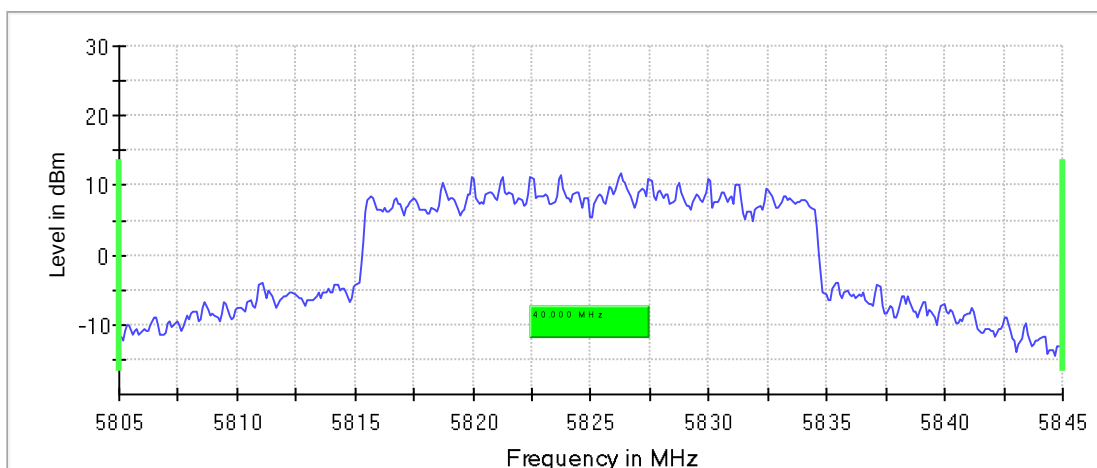
26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5825.000000	40.000000	---	---	5805.000000	5845.000000

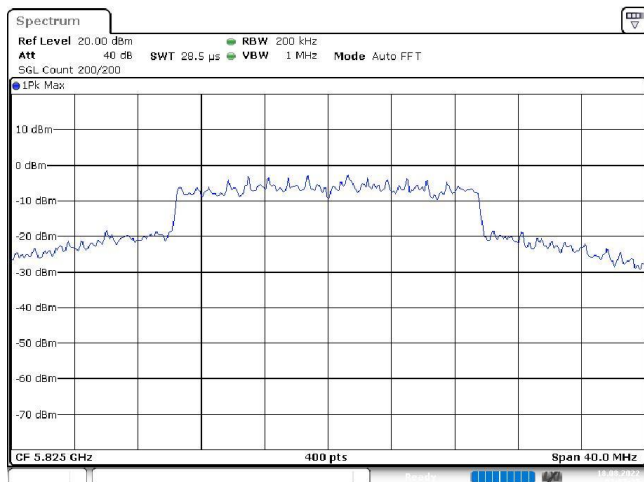
(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5825.000000	11.8	PASS

26 dB Bandwidth



Bandwidth



Date: 18.AUG.2022 02:57:27

Minimum Emission Bandwidth 6 dB (5825 MHz; 24.000 dBm; 20 MHz)

Customized settings.

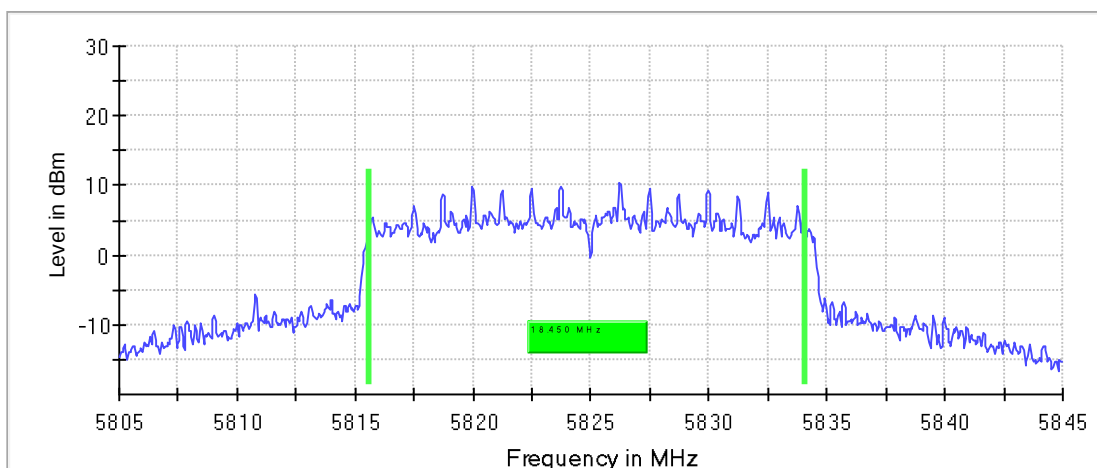
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5825.000000	18.450000	0.500000	---	5815.625000	5834.075000

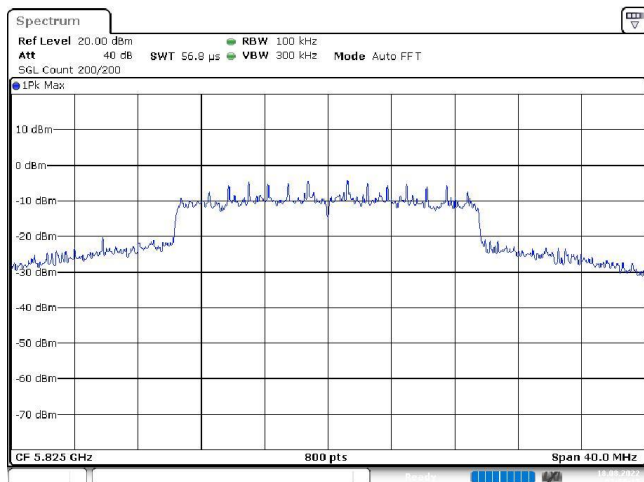
(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5825.000000	10.3	PASS

6 dB Bandwidth



Bandwidth



Date: 18.AUG.2022 02:58:17

Occupied Channel Bandwidth 99% (5825 MHz; 24.000 dBm; 20 MHz)

Customized settings.

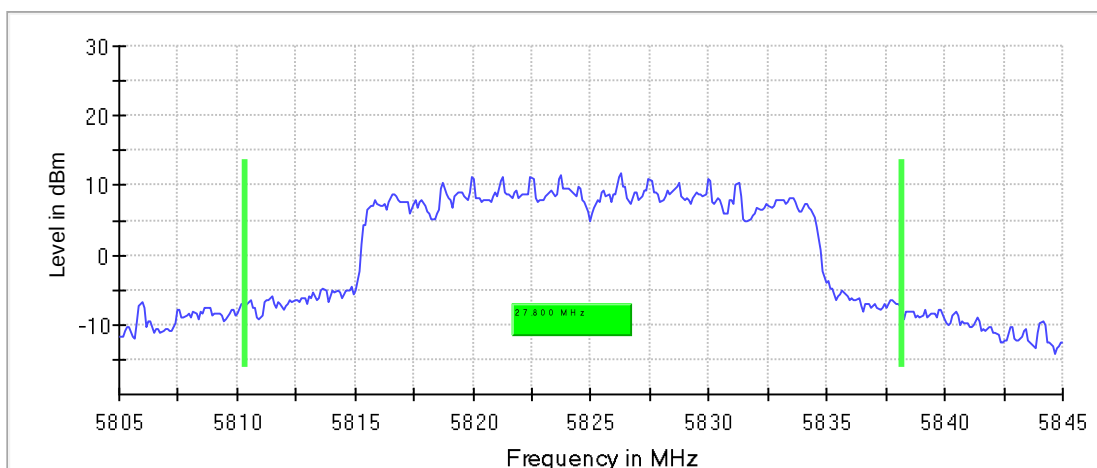
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5825.000000	27.800000	---	---	5810.350000	5838.150000

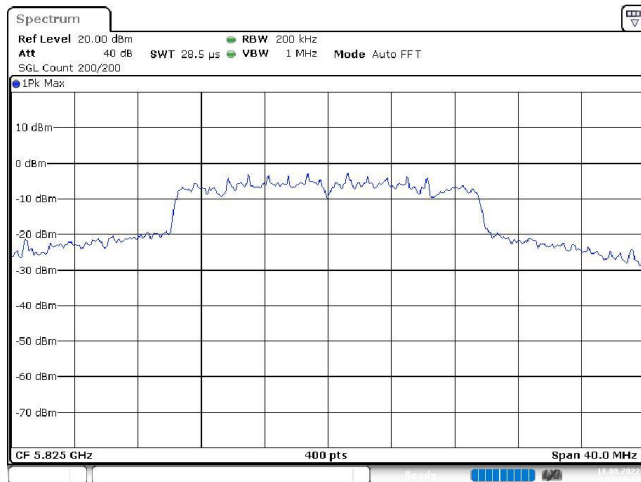
(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
5825.000000	PASS

99 % Bandwidth



Bandwidth



Date: 18.AUG.2022 02:58:24

Tx Spurious Emission (5825 MHz; 24.000 dBm; 20 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
5825.000000	PASS

Final measurements

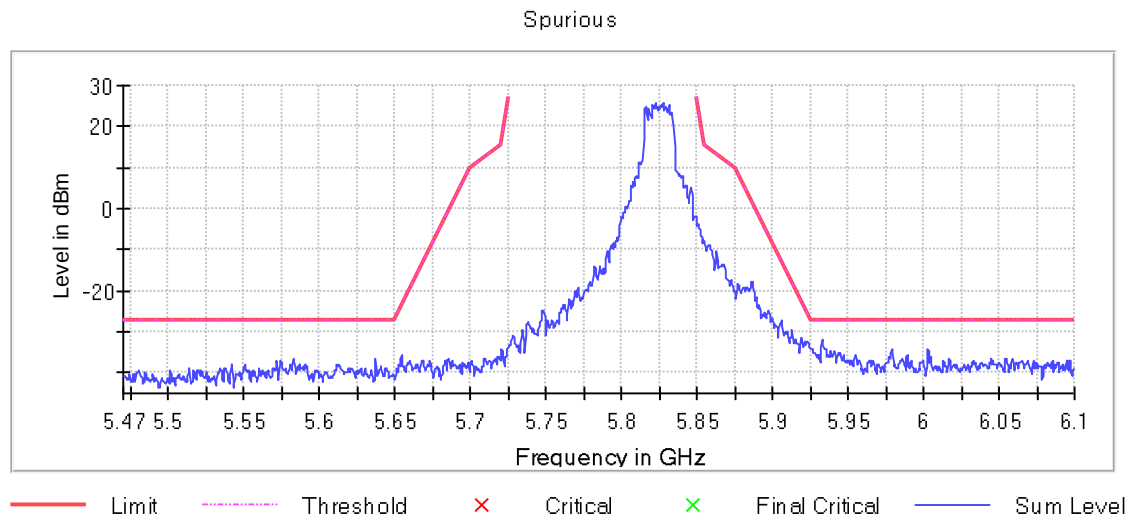
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

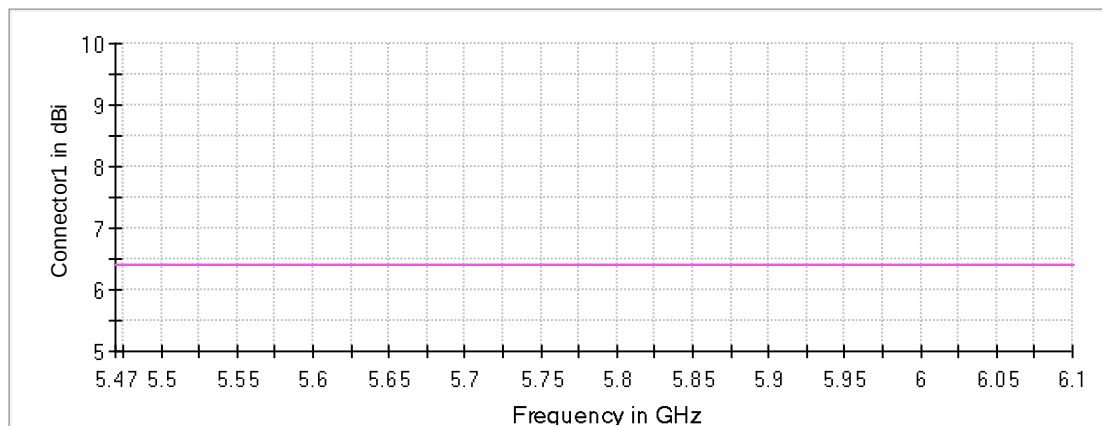
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5932.750000	-31.7	4.7	-27.0
5933.250000	-32.6	5.6	-27.0
5933.750000	-33.3	6.3	-27.0
5923.250000	-32.2	6.4	-25.7
5923.750000	-32.7	6.6	-26.1
5932.250000	-33.7	6.7	-27.0
5924.250000	-33.5	7.0	-26.4
5925.750000	-34.0	7.0	-27.0
5925.250000	-34.1	7.1	-27.0
5924.750000	-34.0	7.1	-26.8
5934.250000	-34.2	7.2	-27.0
5934.750000	-34.2	7.2	-27.0
5926.250000	-34.2	7.2	-27.0
5922.750000	-32.5	7.2	-25.3
5926.750000	-34.2	7.2	-27.0

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
5470.000000	6100.000000	2	2

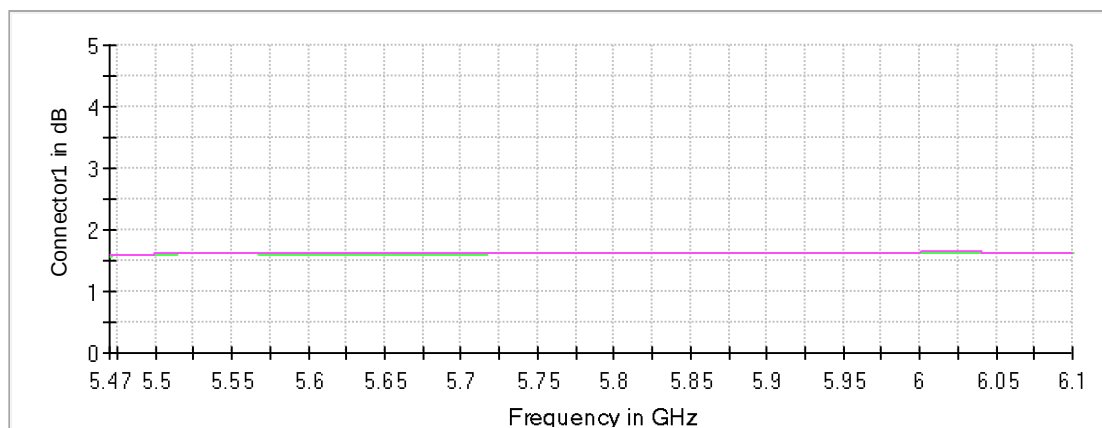


Gain



Connector1 Connector2

Attenuation



Connector1 Connector2

Emission Bandwidth 26 dB (5755 MHz; 24.000 dBm; 40 MHz)

Customized settings.

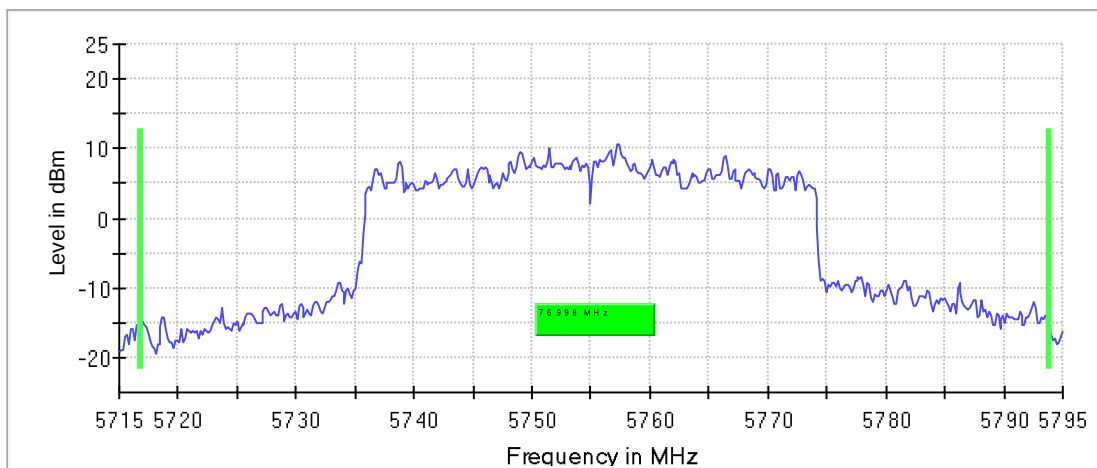
26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5755.000000	76.998123	---	---	5716.876173	5793.874296

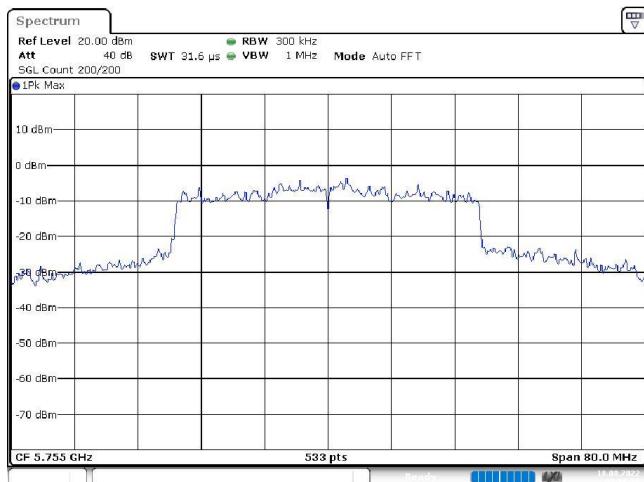
(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5755.000000	10.8	PASS

26 dB Bandwidth



Bandwidth



Date: 18.AUG.2022 03:00:36

Minimum Emission Bandwidth 6 dB (5755 MHz; 24.000 dBm; 40 MHz)

Customized settings.

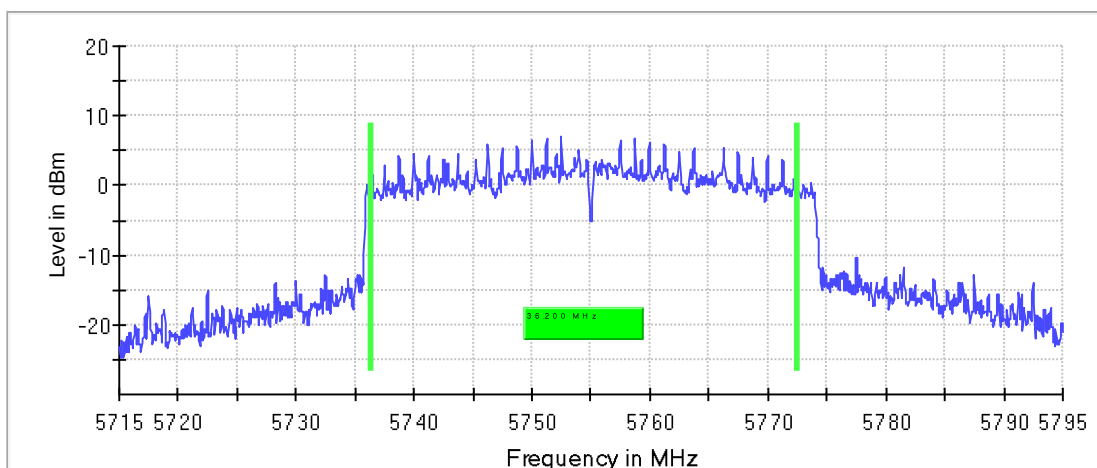
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5755.000000	36.200000	0.500000	---	5736.375000	5772.575000

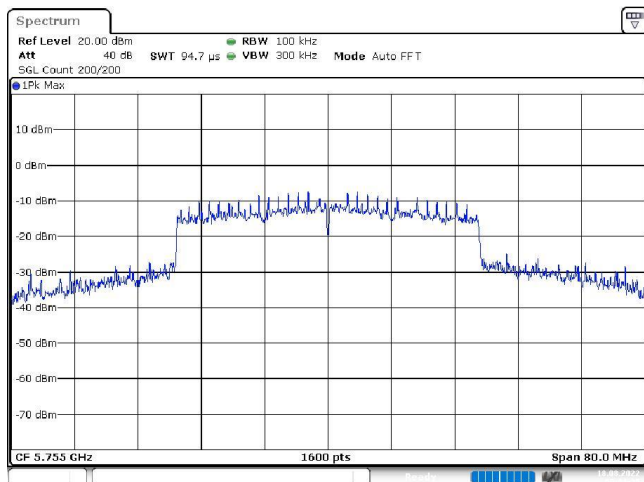
(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5755.000000	6.9	PASS

6 dB Bandwidth



Bandwidth



Date: 18.AUG.2022 03:01:25

Occupied Channel Bandwidth 99% (5755 MHz; 24.000 dBm; 40 MHz)

Customized settings.

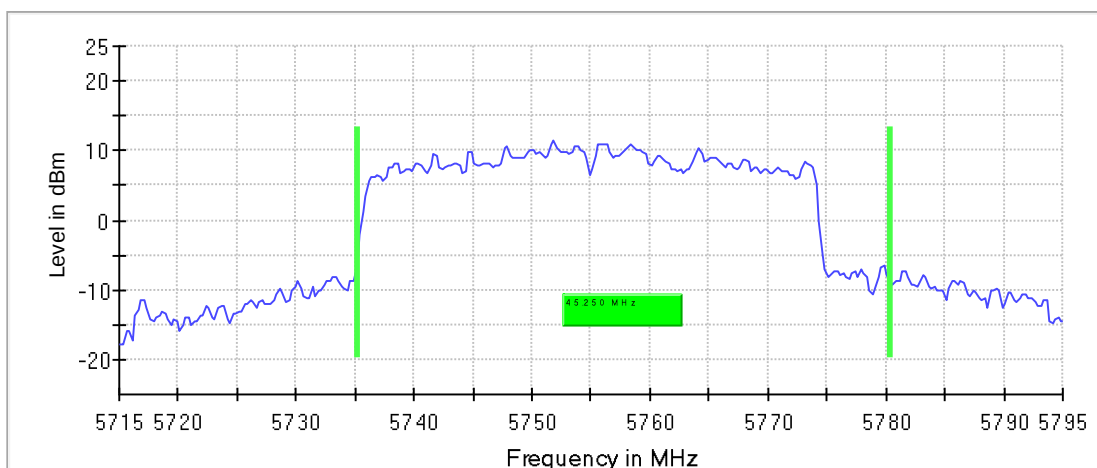
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5755.000000	45.250000	---	---	5735.125000	5780.375000

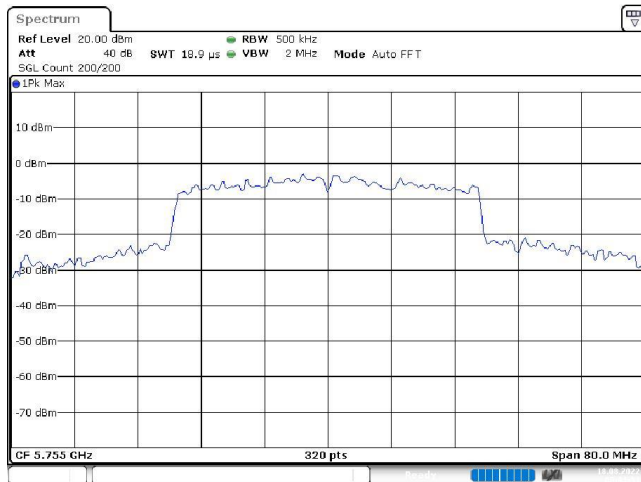
(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
5755.000000	PASS

99 % Bandwidth



Bandwidth



Date: 18.AUG.2022 03:01:33

Tx Spurious Emission (5755 MHz; 24.000 dBm; 40 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
5755.000000	PASS

Final measurements

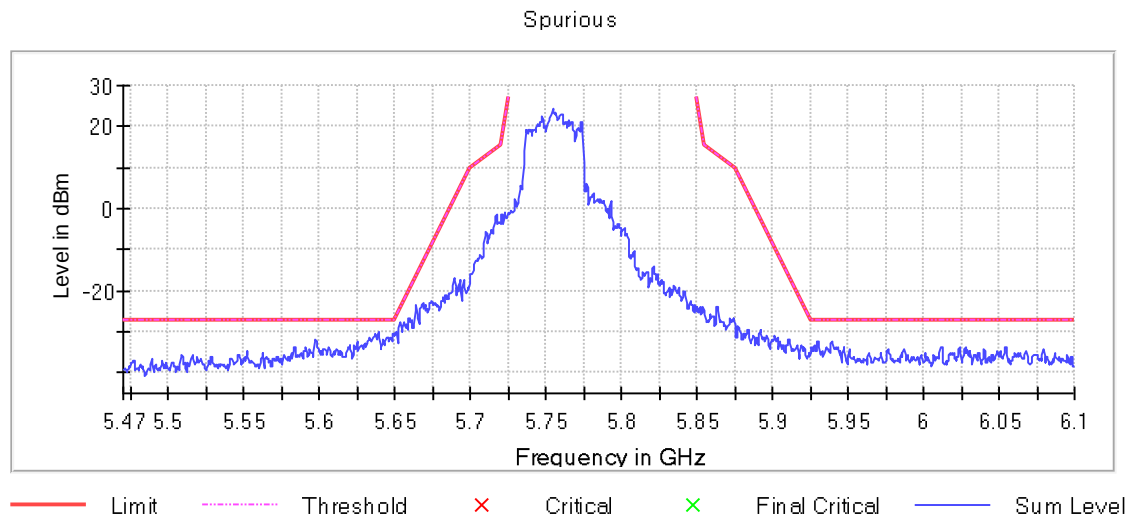
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

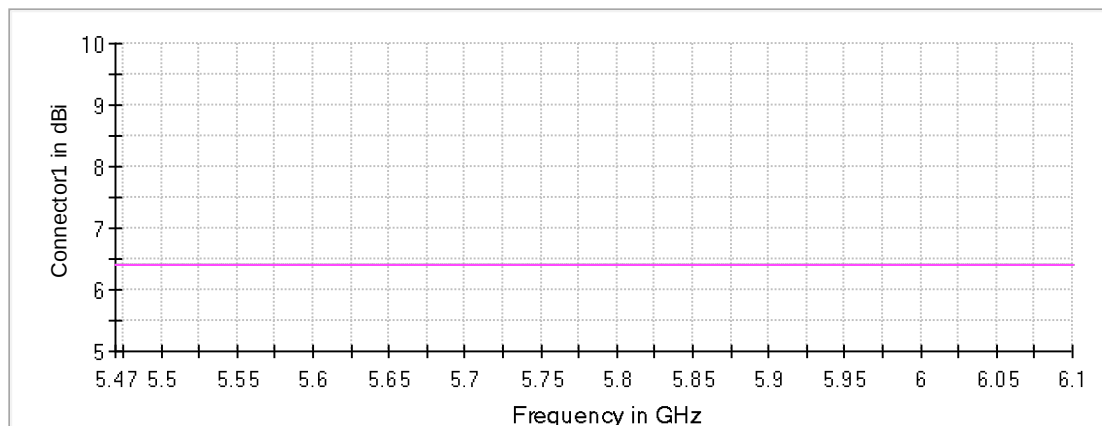
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5638.750000	-30.1	3.1	-27.0
5653.250000	-27.8	3.2	-24.6
5648.750000	-30.3	3.3	-27.0
5639.250000	-30.4	3.4	-27.0
5636.750000	-30.5	3.5	-27.0
5653.750000	-27.7	3.5	-24.2
5637.250000	-30.6	3.6	-27.0
5650.250000	-30.5	3.7	-26.8
5649.250000	-30.7	3.7	-27.0
5650.750000	-30.1	3.7	-26.4
5649.750000	-31.0	4.0	-27.0
5652.750000	-29.0	4.0	-25.0
5638.250000	-31.1	4.1	-27.0
5648.250000	-31.1	4.1	-27.0
5651.250000	-30.2	4.1	-26.1

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
5470.000000	6100.000000	2	2

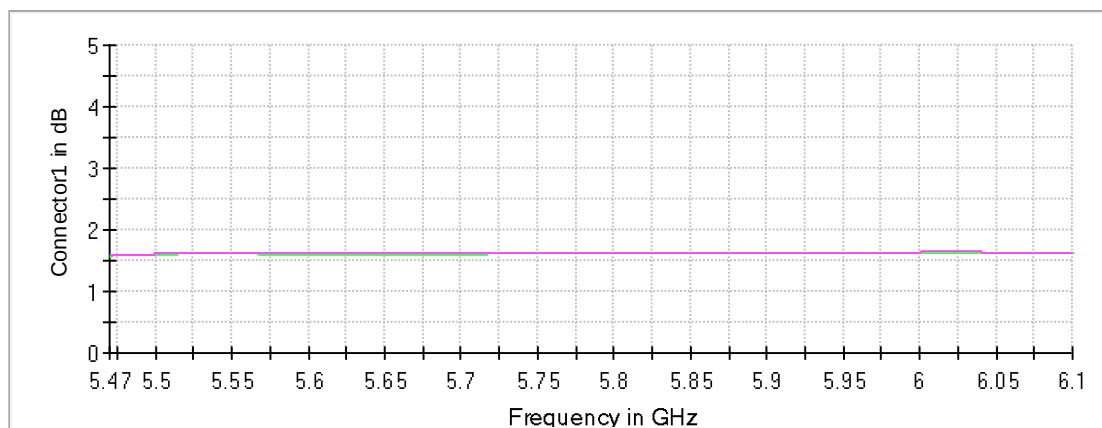


Gain



Connector1 Connector2

Attenuation



Connector1 Connector2

Emission Bandwidth 26 dB (5775 MHz; 24.000 dBm; 40 MHz)

Customized settings.

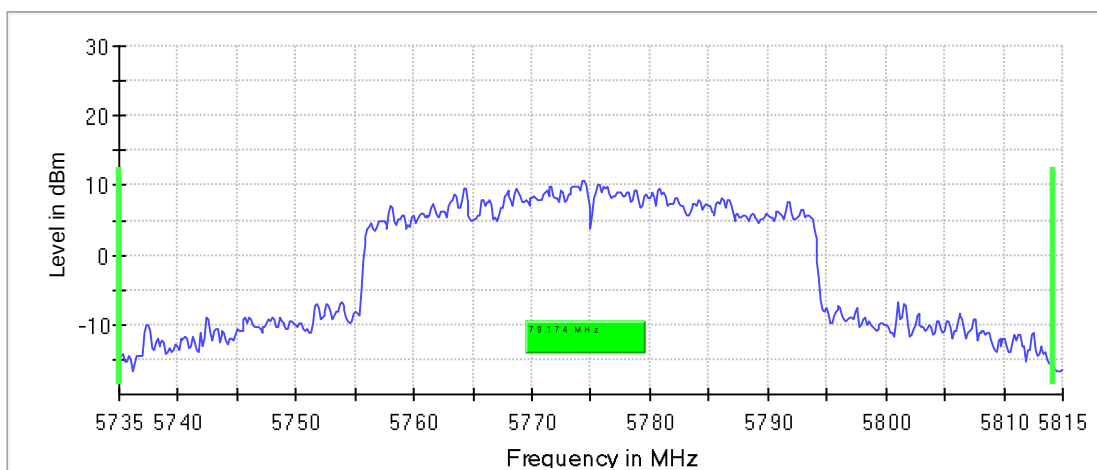
26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5775.000000	79.174484	---	---	5735.000000	5814.174484

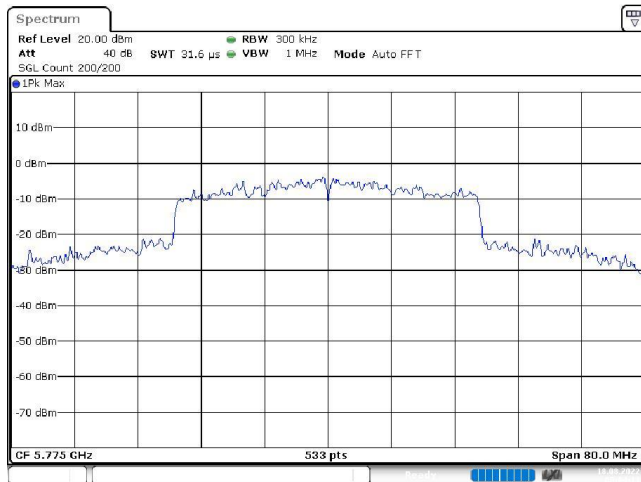
(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5775.000000	10.6	PASS

26 dB Bandwidth



Bandwidth



Date: 18.AUG.2022 03:04:13

Minimum Emission Bandwidth 6 dB (5775 MHz; 24.000 dBm; 40 MHz)

Customized settings.

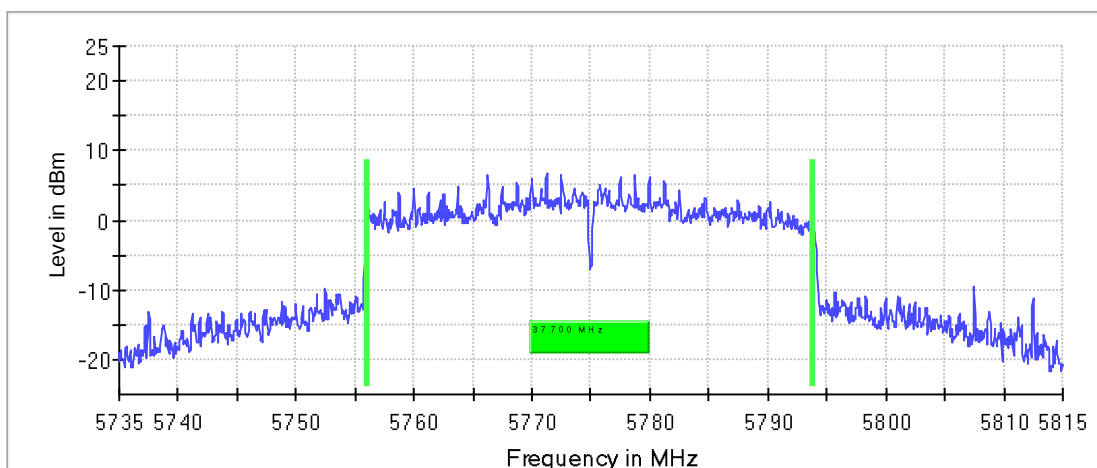
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5775.000000	37.700000	0.500000	---	5756.075000	5793.775000

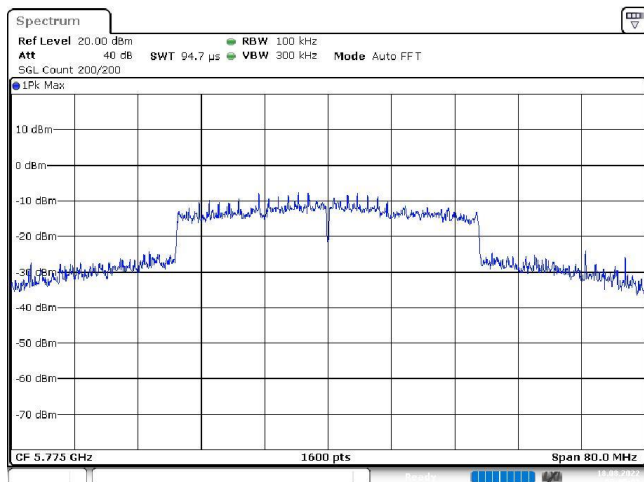
(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5775.000000	6.8	PASS

6 dB Bandwidth



Bandwidth



Date: 18.AUG.2022 03:05:03

Occupied Channel Bandwidth 99% (5775 MHz; 24.000 dBm; 40 MHz)

Customized settings.

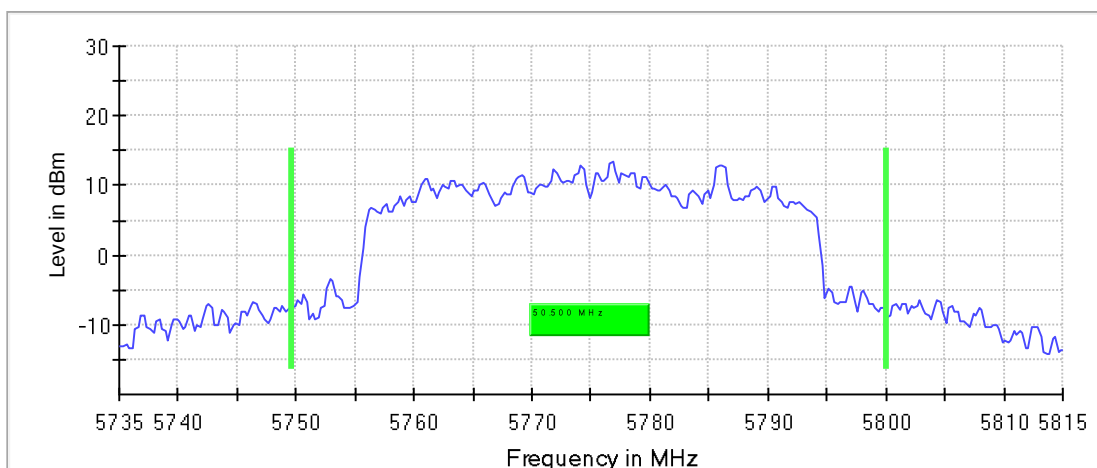
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5775.000000	50.500000	---	---	5749.625000	5800.125000

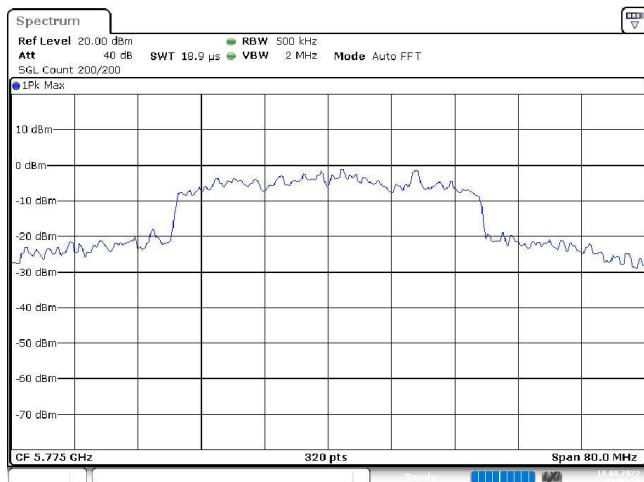
(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
5775.000000	PASS

99 % Bandwidth



Bandwidth



Date: 18.AUG.2022 03:05:10

Tx Spurious Emission (5775 MHz; 24.000 dBm; 40 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
5775.000000	PASS

Final measurements

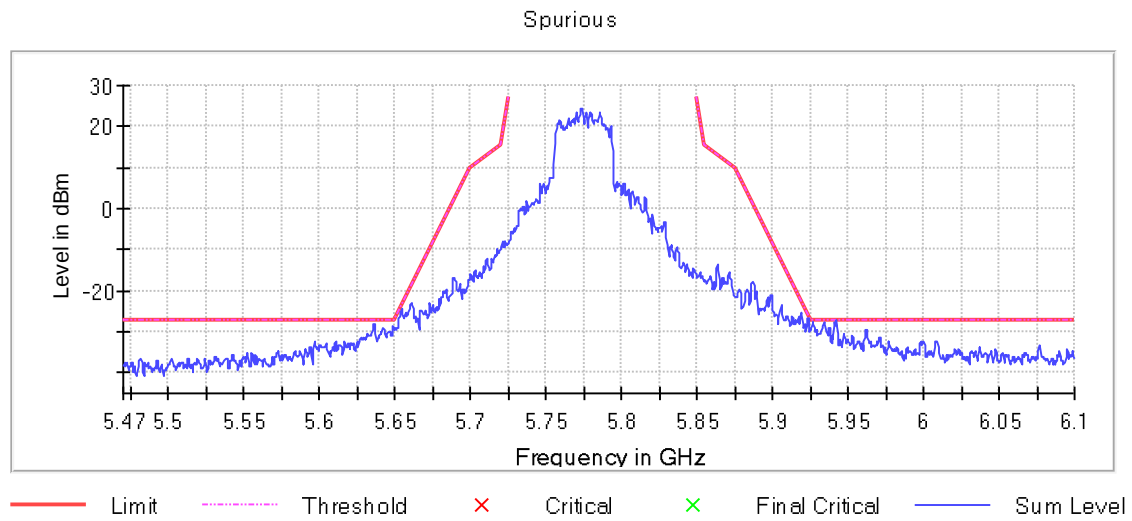
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

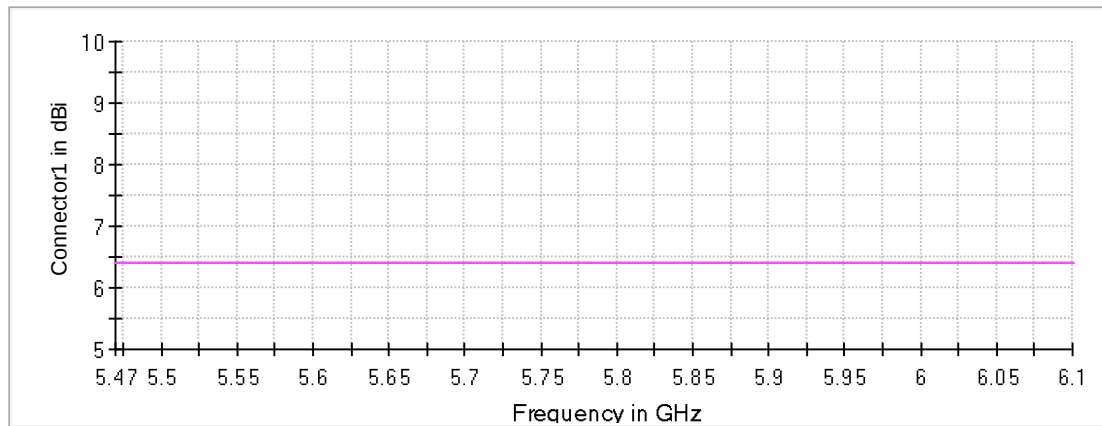
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5942.250000	-27.2	0.2	-27.0
5942.750000	-27.4	0.4	-27.0
5941.250000	-27.5	0.5	-27.0
5934.250000	-27.6	0.6	-27.0
5923.750000	-26.7	0.6	-26.1
5654.250000	-24.6	0.7	-23.9
5926.750000	-27.9	0.9	-27.0
5653.750000	-25.1	0.9	-24.2
5636.250000	-28.0	1.0	-27.0
5926.250000	-28.0	1.0	-27.0
5927.250000	-28.0	1.0	-27.0
5923.250000	-26.7	1.0	-25.7
5635.750000	-28.1	1.1	-27.0
5934.750000	-28.2	1.2	-27.0
5654.750000	-24.8	1.3	-23.5

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
5470.000000	6100.000000	2	2

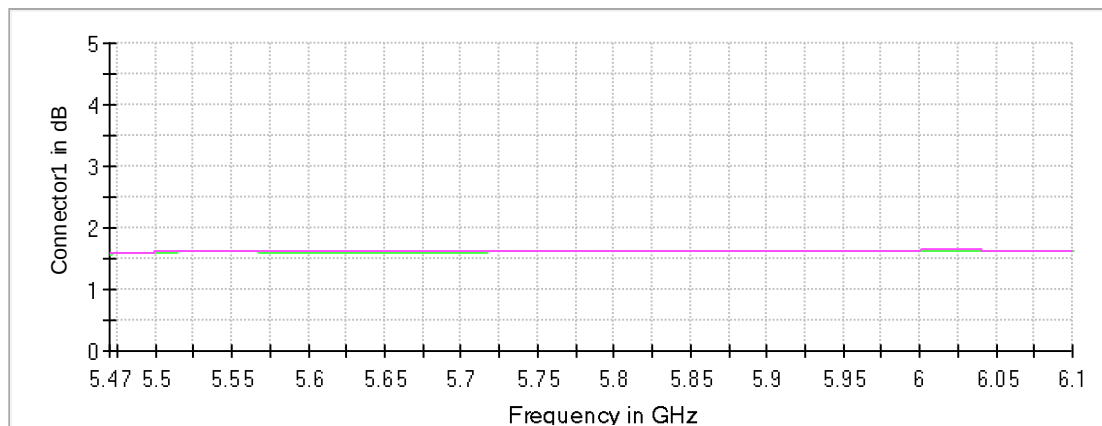


Gain



Connector1 Connector2

Attenuation



Connector1 Connector2

Emission Bandwidth 26 dB (5795 MHz; 24.000 dBm; 40 MHz)

Customized settings.

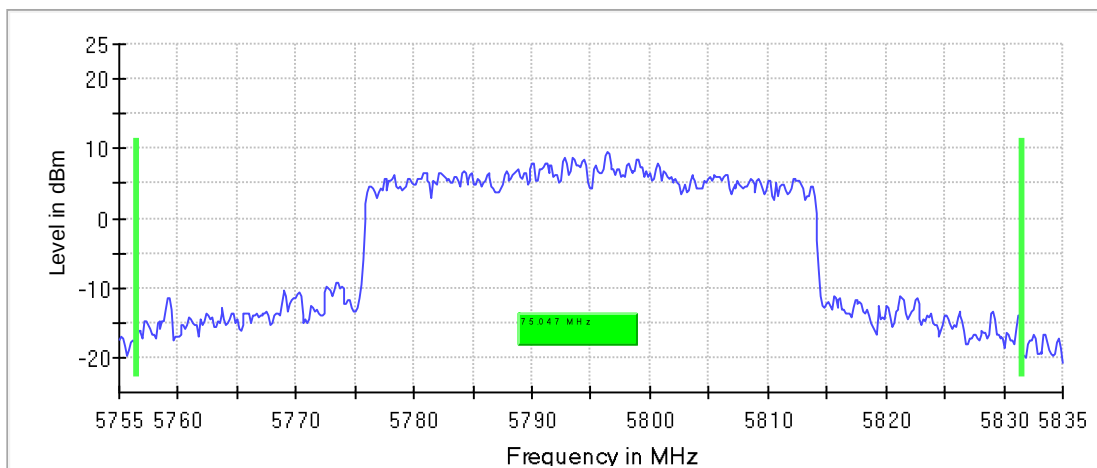
26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5795.000000	75.046904	---	---	5756.425891	5831.472795

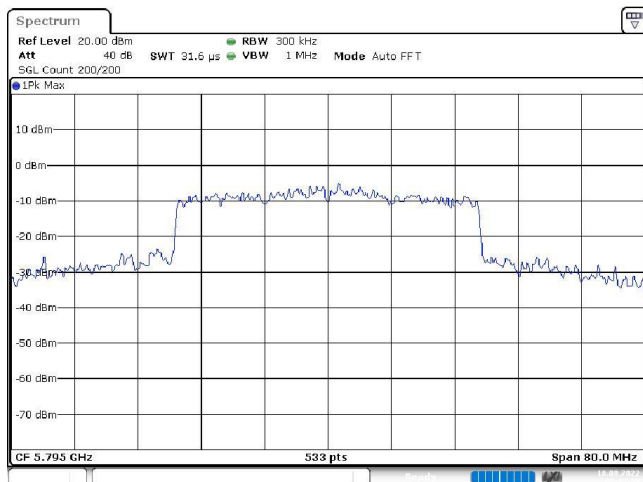
(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5795.000000	9.4	PASS

26 dB Bandwidth



Bandwidth



Date: 18.AUG.2022 03:11:05

Minimum Emission Bandwidth 6 dB (5795 MHz; 24.000 dBm; 40 MHz)

Customized settings.

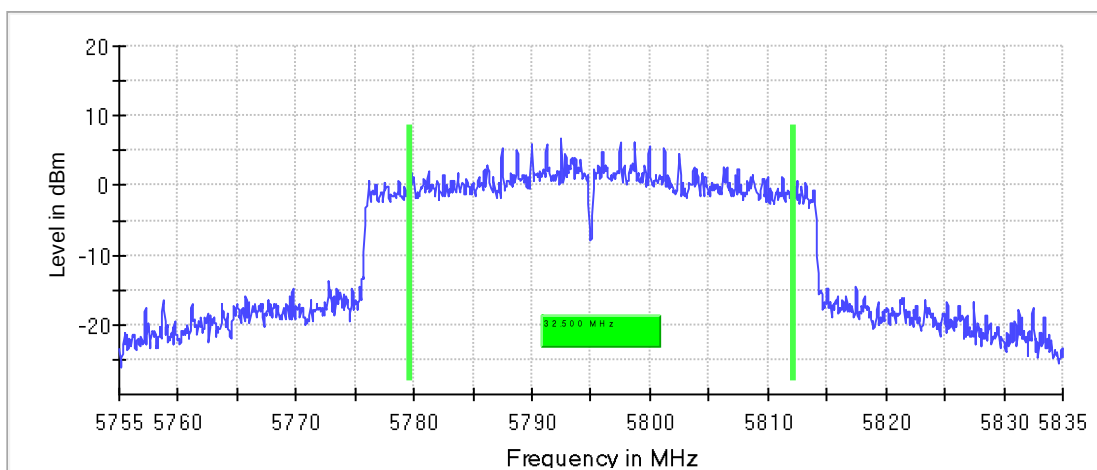
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5795.000000	32.500000	0.500000	---	5779.675000	5812.175000

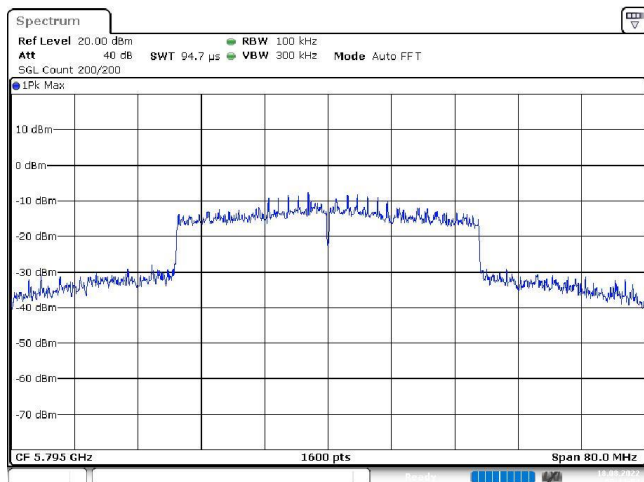
(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5795.000000	6.8	PASS

6 dB Bandwidth



Bandwidth



Date: 18.AUG.2022 03:11:54

Occupied Channel Bandwidth 99% (5795 MHz; 24.000 dBm; 40 MHz)

Customized settings.

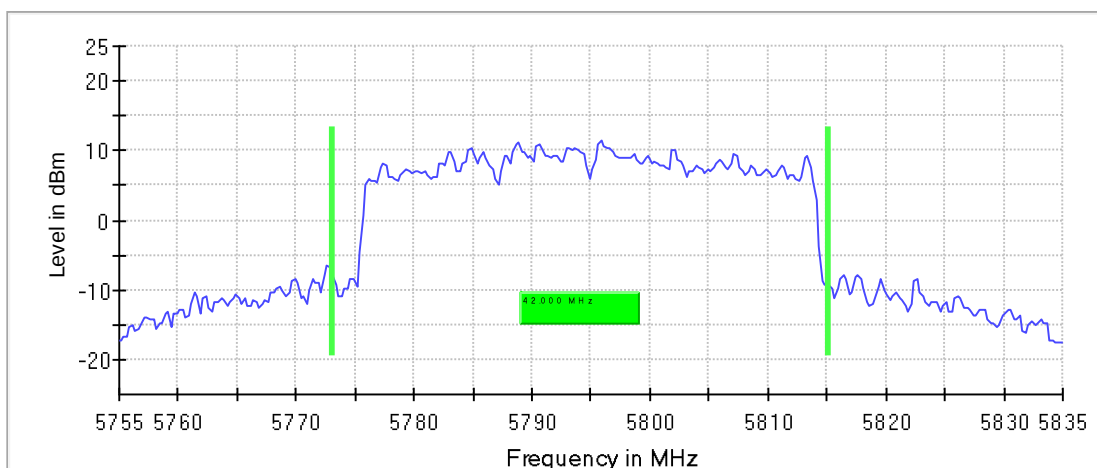
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5795.000000	42.000000	---	---	5773.125000	5815.125000

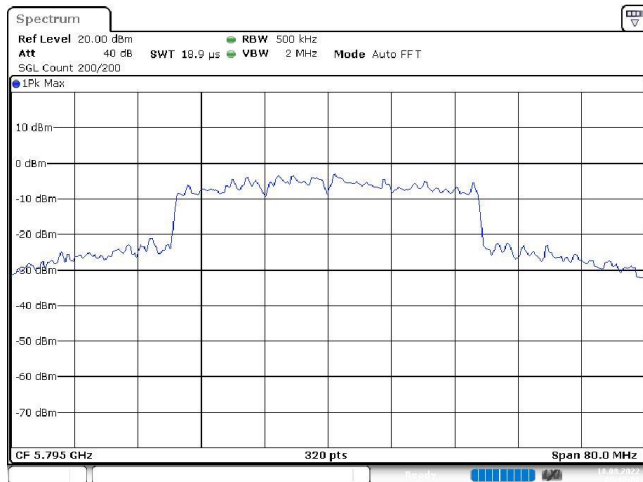
(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
5795.000000	PASS

99 % Bandwidth



Bandwidth



Date: 18.AUG.2022 03:12:02

Tx Spurious Emission (5795 MHz; 24.000 dBm; 40 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
5795.000000	PASS

Final measurements

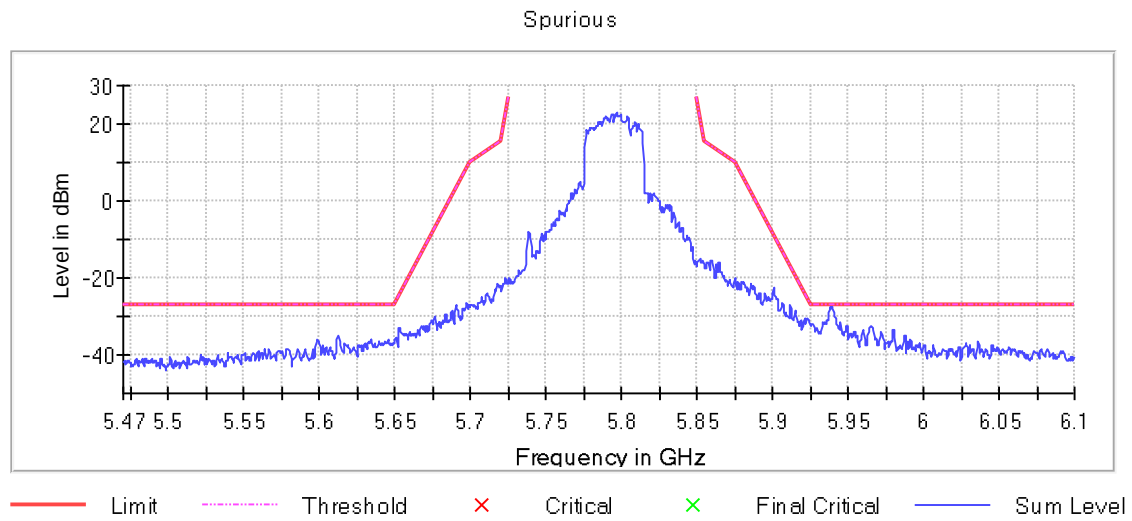
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

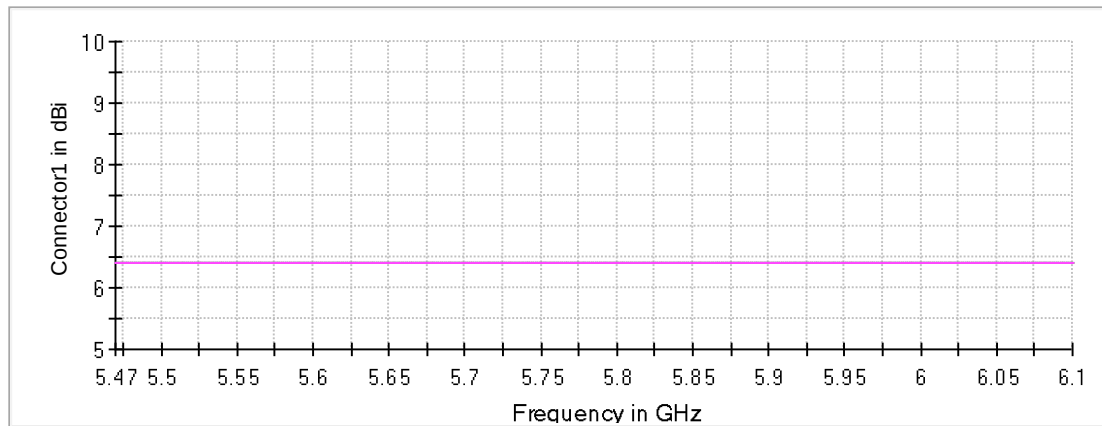
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5939.250000	-27.6	0.6	-27.0
5939.750000	-27.6	0.6	-27.0
5938.250000	-27.7	0.7	-27.0
5938.750000	-27.8	0.8	-27.0
5937.750000	-27.8	0.8	-27.0
5940.250000	-27.9	0.9	-27.0
5940.750000	-29.0	2.0	-27.0
5937.250000	-29.2	2.2	-27.0
5941.250000	-30.1	3.1	-27.0
5941.750000	-30.4	3.4	-27.0
5936.750000	-30.8	3.8	-27.0
5935.750000	-31.0	4.0	-27.0
5936.250000	-31.0	4.0	-27.0
5942.250000	-31.1	4.1	-27.0
5934.750000	-31.5	4.5	-27.0

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
5470.000000	6100.000000	2	2

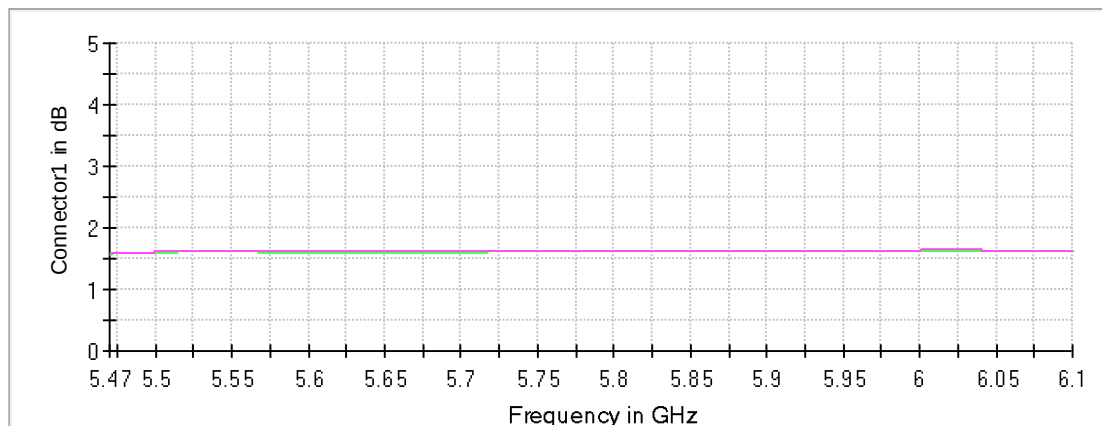


Gain



Connector1 Connector2

Attenuation



Connector1 Connector2

Emission Bandwidth 26 dB (5775 MHz; 24.000 dBm; 80 MHz)

Customized settings.

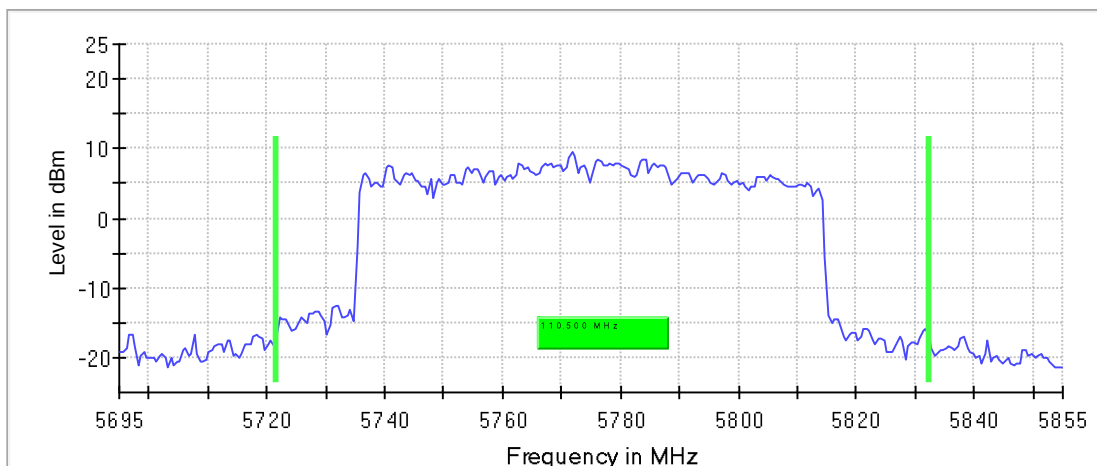
26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5775.000000	110.500000	---	---	5721.750000	5832.250000

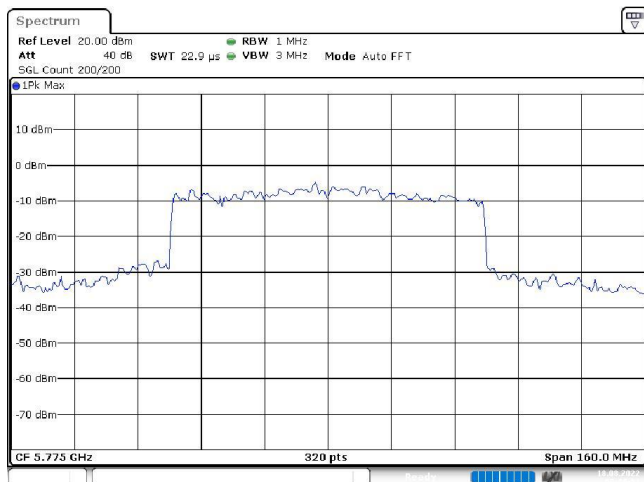
(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5775.000000	9.7	PASS

26 dB Bandwidth



Bandwidth



Date: 18.AUG.2022 03:20:31

Minimum Emission Bandwidth 6 dB (5775 MHz; 24.000 dBm; 80 MHz)

Customized settings.

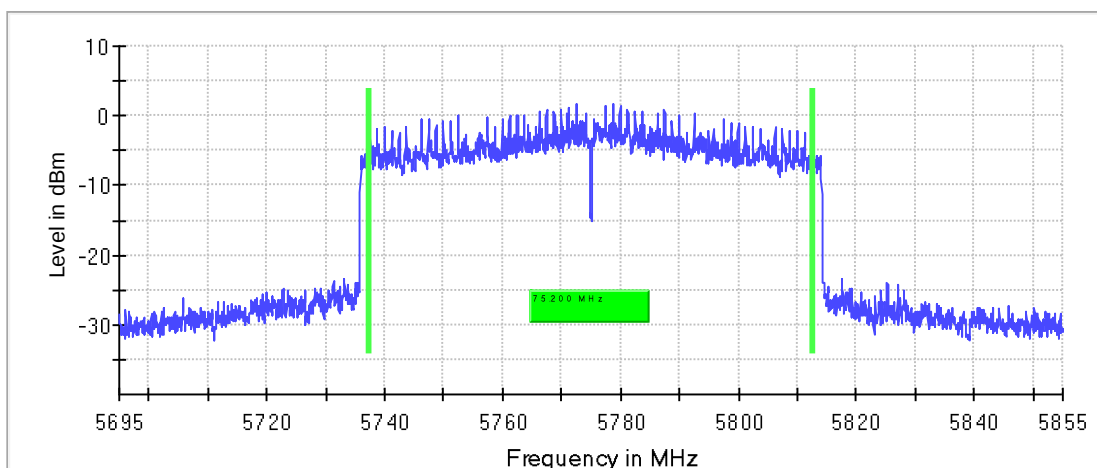
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5775.000000	75.200000	0.500000	---	5737.375000	5812.575000

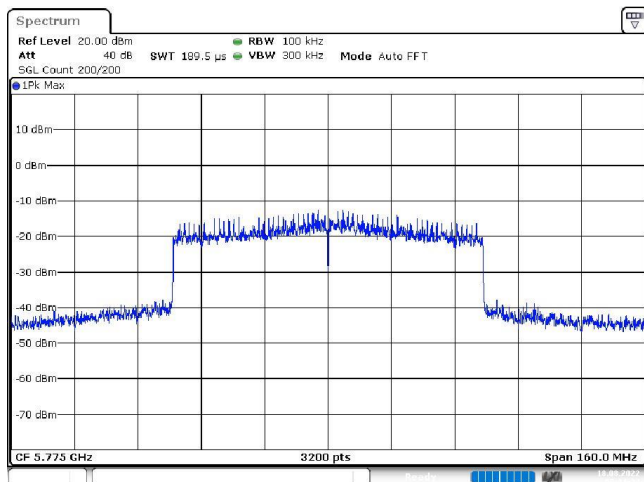
(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5775.000000	1.8	PASS

6 dB Bandwidth



Bandwidth



Date: 18.AUG.2022 03:21:24

Occupied Channel Bandwidth 99% (5775 MHz; 24.000 dBm; 80 MHz)

Customized settings.

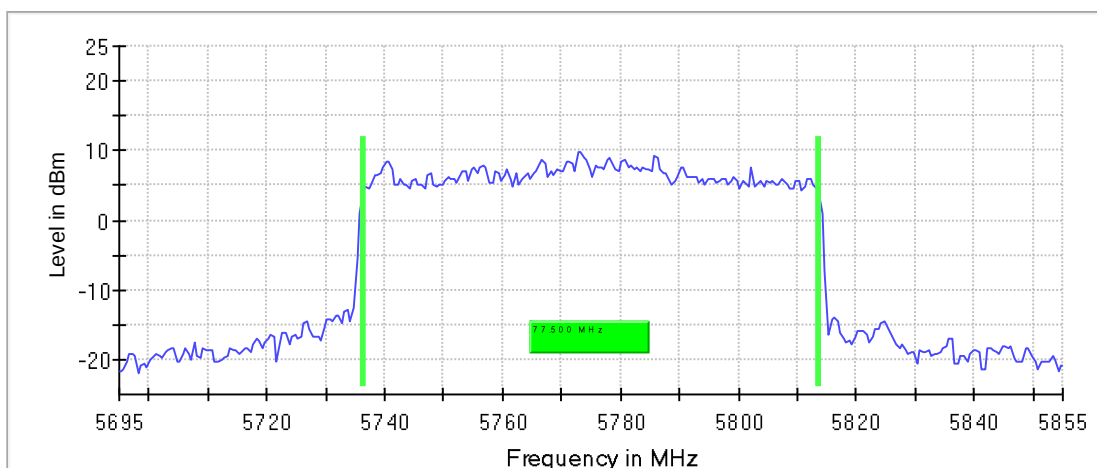
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5775.000000	77.500000	---	---	5736.250000	5813.750000

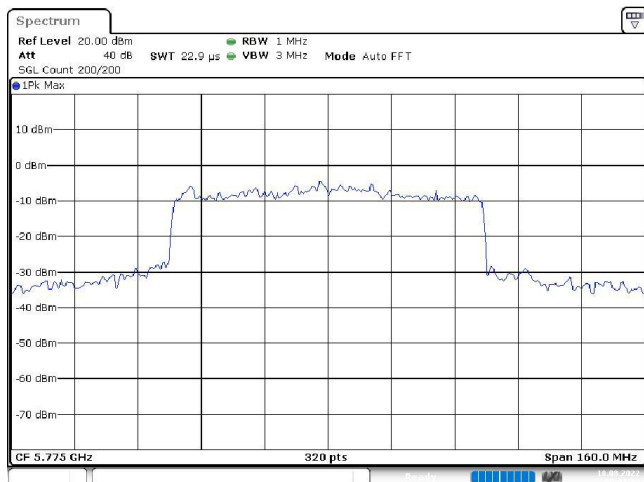
(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
5775.000000	PASS

99 % Bandwidth



Bandwidth



Date: 18.AUG.2022 03:21:34

Tx Spurious Emission (5775 MHz; 24.000 dBm; 80 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
5775.000000	PASS

Final measurements

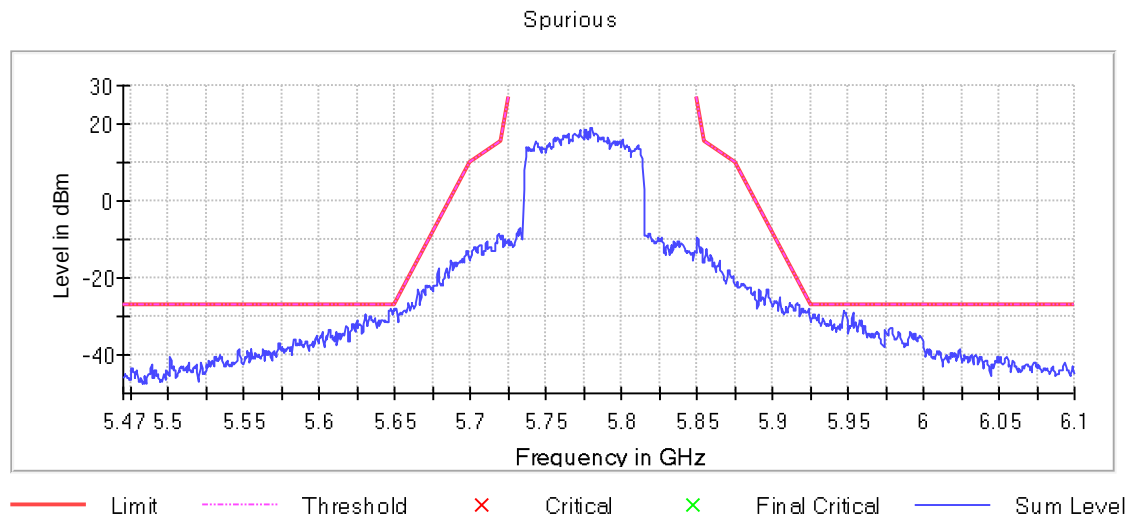
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

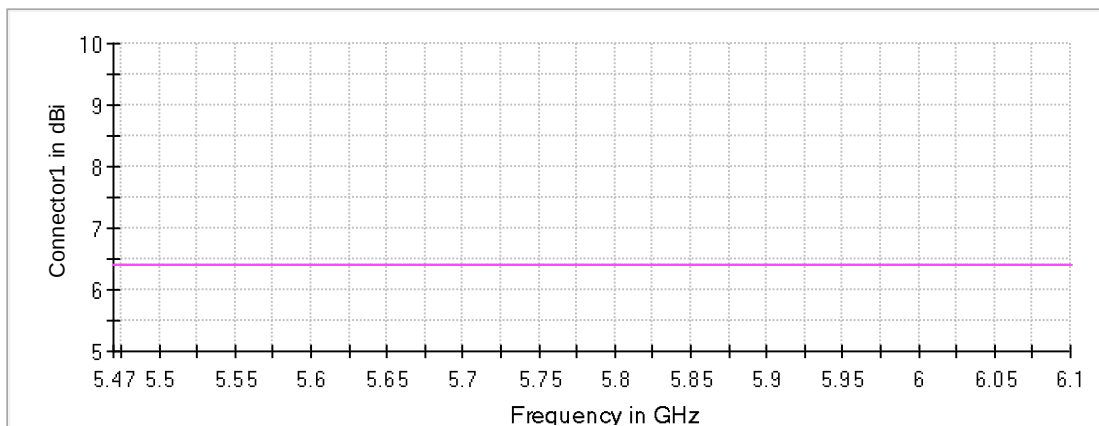
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5647.250000	-28.1	1.1	-27.0
5649.250000	-28.1	1.1	-27.0
5646.750000	-28.3	1.3	-27.0
5649.750000	-28.3	1.3	-27.0
5646.250000	-28.3	1.3	-27.0
5947.250000	-28.3	1.3	-27.0
5650.250000	-28.1	1.3	-26.8
5946.750000	-28.4	1.4	-27.0
5650.750000	-28.1	1.6	-26.4
5648.750000	-28.8	1.8	-27.0
5924.250000	-28.2	1.8	-26.4
5647.750000	-28.8	1.8	-27.0
5953.250000	-28.9	1.9	-27.0
5947.750000	-29.1	2.1	-27.0
5923.750000	-28.2	2.1	-26.1

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
5470.000000	6100.000000	2	2

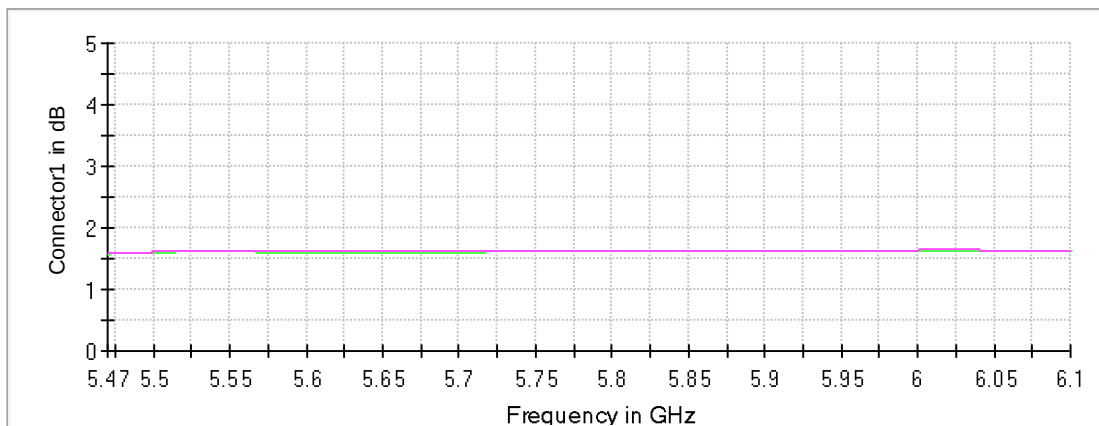


Gain



Connector1 Connector2

Attenuation



Connector1 Connector2

-- End of Test Report --

