



427 West 12800 South
Draper, UT 84020

Test Report Attachment

FCC ID	SWX-E7
ISED ID	6545A-E7
Equipment Under Test	E7
Test Report Serial Number	TR1234_02
Date of Test(s)	22, 23 February and 11, 16, 25 April 2024
Report Issue Date	30 September 2024

Test Personnel

Testing performed by	Evan J. Hartzell
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Test Location

Testing was performed at the Unified Compliance Laboratory 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 2024. 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 30 June 2024. Unified Compliance Laboratory has been assigned Conformity Assessment Number US0223 by ISED and MRA US5037.



Revision History		
Revision	Description	Date
01	Original Report Release	9 May 2024
02	Added test settings for PSD.	30 September 2024

1 UNII-3 Band

Table 1: Summary

Test	Frequency	Nominal	Nominal	Result
	MHz	dBm	MHz	
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
Power Spectral Density	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
Power Spectral Density	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
Power Spectral Density	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
Power Spectral Density	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
Power Spectral Density	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

Test	Frequency	Nominal	Nominal	Result
	MHz	dBm	MHz	
Emission Bandwidth 26 dB	5775.000	24.0	80.000000	PASS
Power Spectral Density	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

2 Testcases

2.1 Emission Bandwidth 26 dB (5745 MHz, 20 MHz, 24.000 dBm)

Customized settings.

Table 2: 26 dB Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Band Edge Right	Max Level	Result
MHz	MHz	MHz	MHz	MHz	MHz	dBm	
5745.000000	47.400000	---	---	5721.150000	5768.550000	8.7	PASS

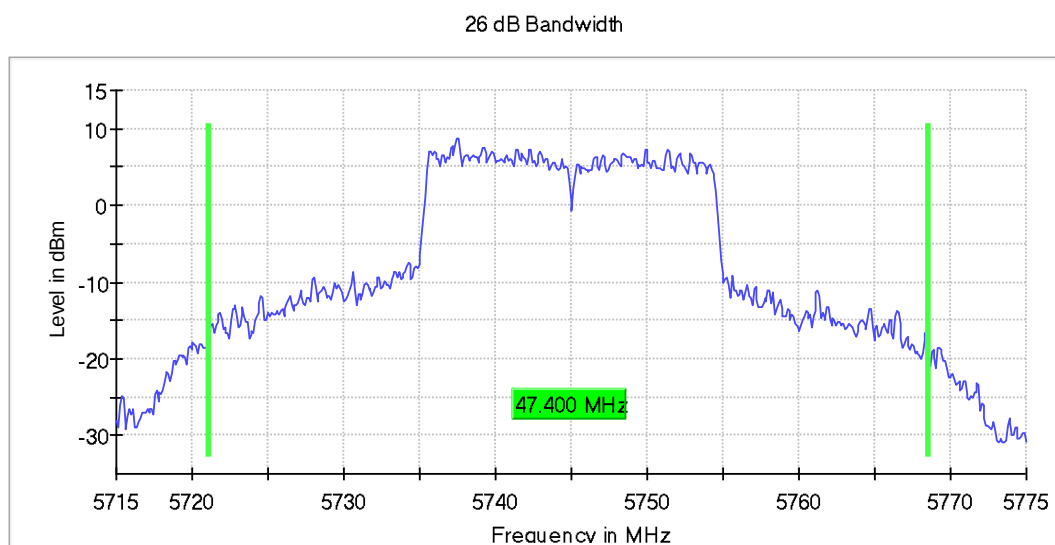
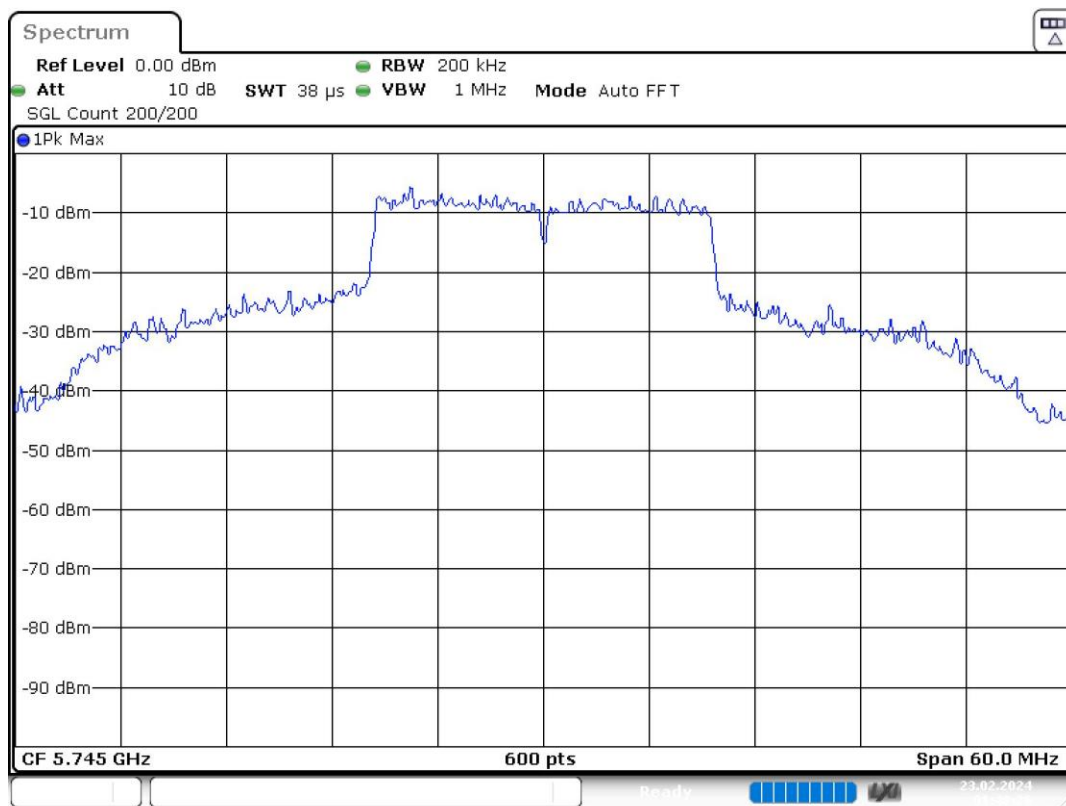


Figure 1: 26 dB Bandwidth



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Table 3: Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.71500 GHz	5.71500 GHz
Stop Frequency	5.77500 GHz	5.77500 GHz
Span	60.000 MHz	60.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	600	~ 600
Sweptime	37.969 μ s	AUTO
Reference Level	0.000 dBm	AUTO
Attenuation	10.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

2.2 RF output power (5745 MHz, 20 MHz, 24.000 dBm)

Customized settings.

Table 4: Result

DUT Frequency	Gated RMS	Limit Max	Gated EIRP	DutyCycle	Result
MHz	dBm	dBm	dBm	%	
5745.000000	29.5	30.0	29.5	99.714	PASS

Table 5: 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

2.3 Power Spectral Density (5745 MHz, 20 MHz, 24.000 dBm)

Customized settings.

Table 6: Result

DUT Frequency	Frequency	PSD	Limit Max	Result
MHz	MHz	dBm	dBm	
5745.000000	5736.287129	10.993	30.0	PASS

Table 7: Ports

Port	State
1	used
2	used
3	used
4	used

Power Spectral Density

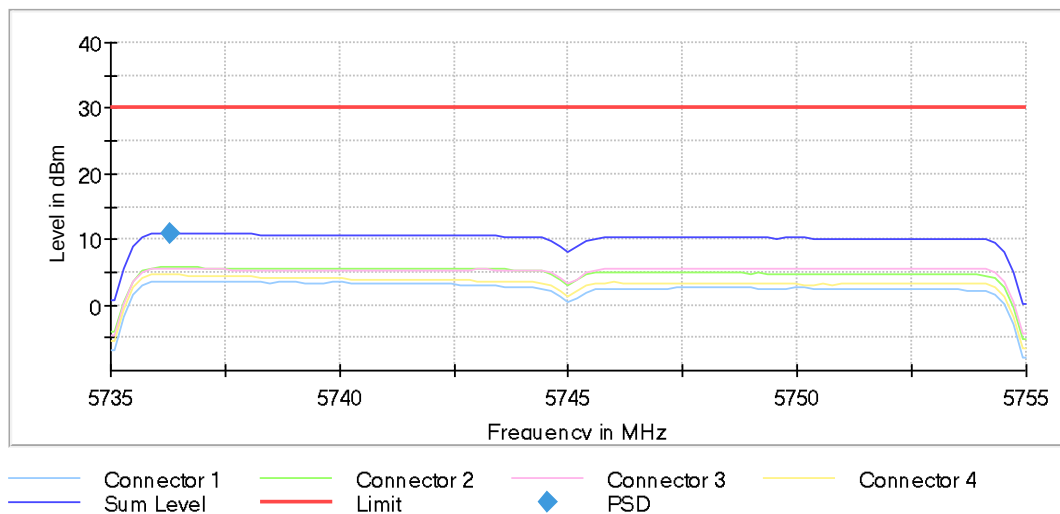


Figure 2: Power Spectral Density

Table 8: 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
Preamplifier	off	off

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

Customized settings.

Table 9: 6 dB Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Band Edge Right	Max Level	Result
MHz	MHz	MHz	MHz	MHz	MHz	dBm	
5745.000000	19.200000	0.500000	---	5735.375000	5754.575000	5.9	PASS

6 dB Bandwidth

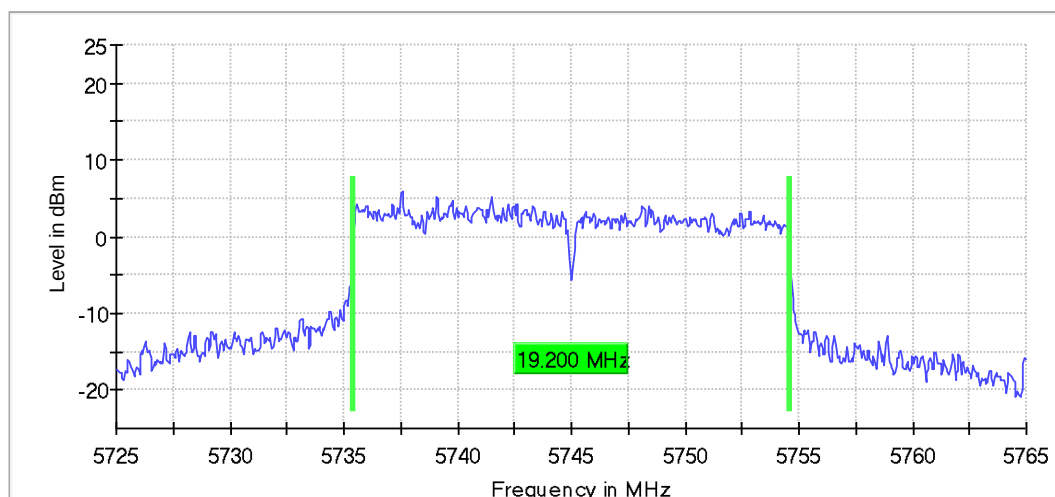
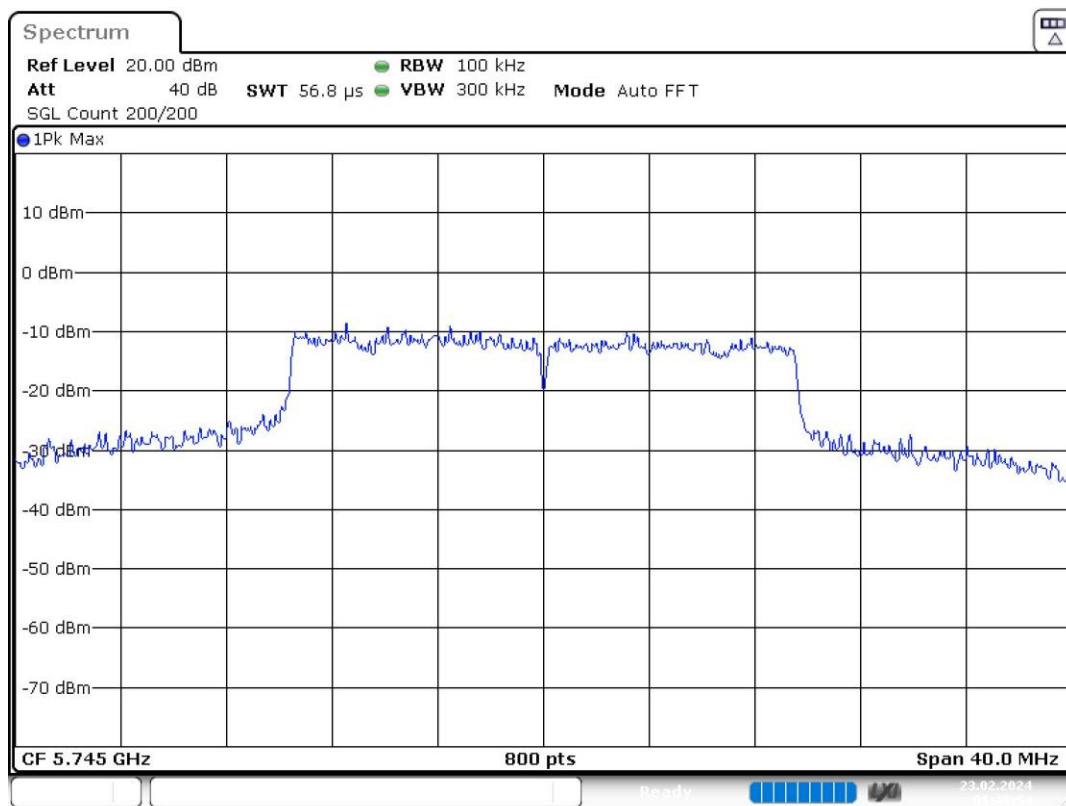


Figure 3: 6 dB Bandwidth



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Table 10: 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 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

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

Customized settings.

Table 11: 99 % Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Band Edge Right	Result
MHz	MHz	MHz	MHz	MHz	MHz	
5745.000000	24.500000	---	---	5730.875000	5755.375000	PASS

99 % Bandwidth

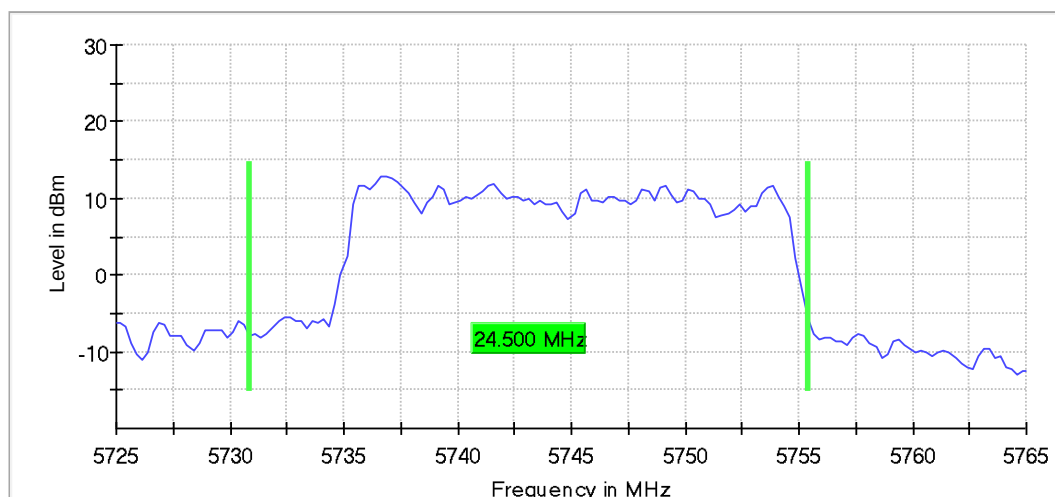
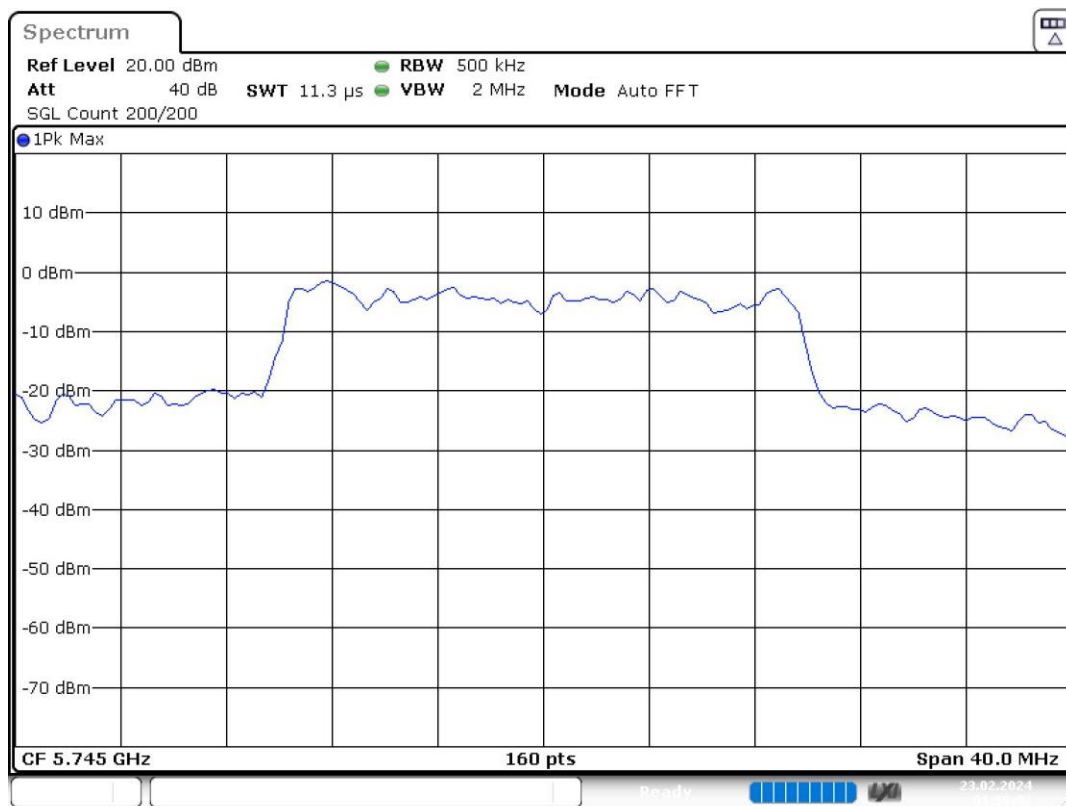


Figure 4: 99 % Bandwidth



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Table 12: 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	500.000 kHz	≥ 500.000 kHz
VBW	2.000 MHz	≥ 1.500 MHz
SweepPoints	160	~ 160
Sweptime	11.344 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
Preamplifier	off	off

2.6 Tx Spurious Emission (5745 MHz, 20 MHz, 24.000 dBm)

Customized settings.

Table 13: Result

DUT Frequency	Result
MHz	
5745.000000	PASS

Table 14: Final measurements

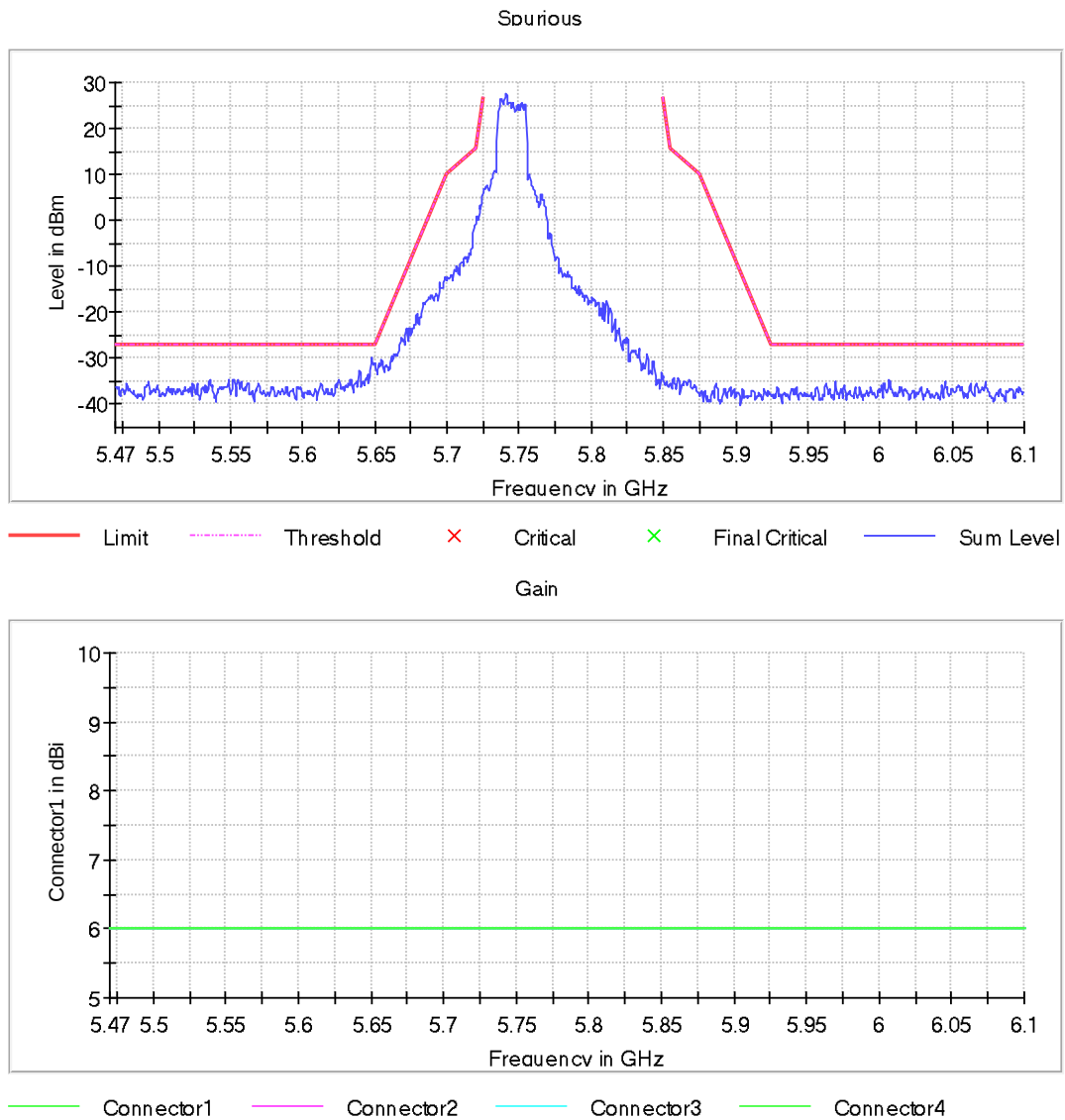
Frequency	Level Pre Measurement	level	Limit	Margin	Result
MHz	dBm	dBm	dBm	dB	
---	---	---	---	---	---

Table 15: Pre Measurements

Frequency	Level	Margin	Limit
MHz	dBm	dB	dBm
5647.750000	-30.0	3.0	-27.0
5647.250000	-30.5	3.5	-27.0
5648.250000	-30.5	3.5	-27.0
5649.250000	-31.2	4.2	-27.0
5649.750000	-31.2	4.2	-27.0
5648.750000	-31.4	4.4	-27.0
5650.250000	-31.6	4.8	-26.8
5646.750000	-32.5	5.5	-27.0
5639.250000	-32.6	5.6	-27.0
5650.750000	-32.2	5.8	-26.4
5639.750000	-33.1	6.1	-27.0
5652.750000	-31.2	6.2	-25.0
5638.750000	-33.3	6.3	-27.0
5644.750000	-33.4	6.4	-27.0
5645.250000	-33.6	6.6	-27.0

Table 16: Measurement Settings

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



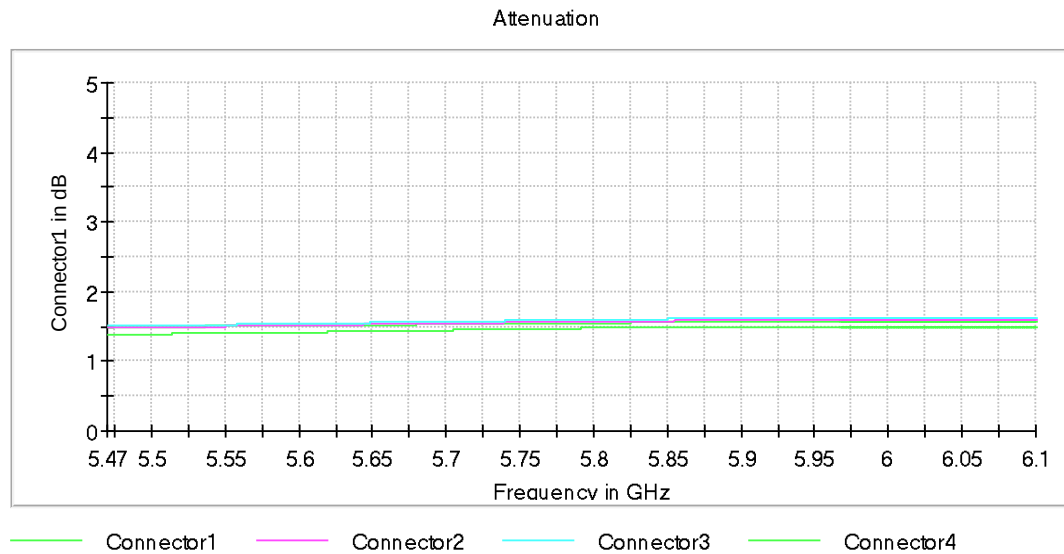


Figure 5: Attenuation

Figure 6: Gain

Figure 7: Spurious

Table 17: 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	-10.000 dBm	-10.000 dBm
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off

2.7 Emission Bandwidth 26 dB (5775 MHz, 20 MHz, 24.000 dBm)

Customized settings.

Table 18: 26 dB Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Band Edge Right	Max Level	Result
MHz	MHz	MHz	MHz	MHz	MHz	dBm	
5775.000000	54.000000	---	---	5748.450000	5802.450000	9.0	PASS

26 dB Bandwidth

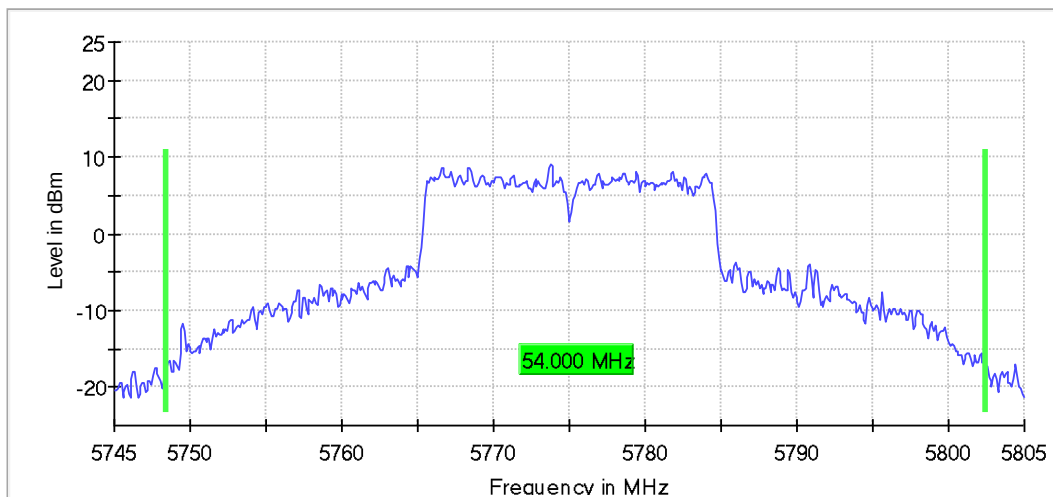
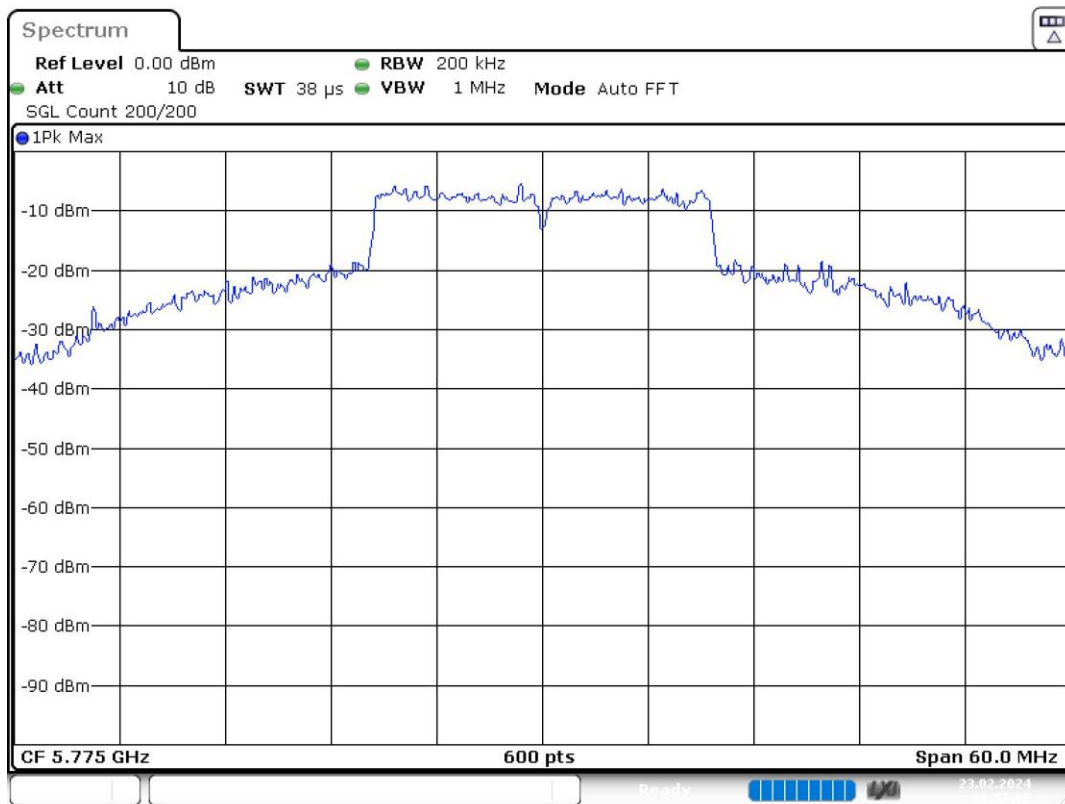


Figure 8: 26 dB Bandwidth



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2.8 Power Spectral Density (5775 MHz, 20 MHz, 24.000 dBm)

Customized settings.

Table 19: Result

DUT Frequency	Frequency	PSD	Limit Max	Result
MHz	MHz	dBm	dBm	
5775.000000	5766.287129	10.832	30.0	PASS

Table 20: Ports

Port	State
1	used
2	used
3	used
4	used

Power Spectral Density

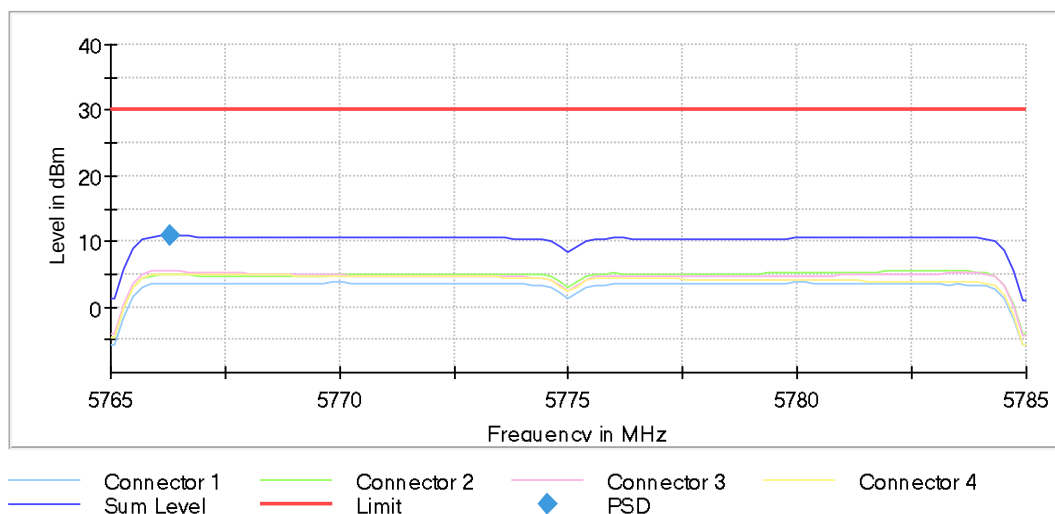


Figure 9: Power Spectral Density

Table 21: Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.76500 GHz	5.76500 GHz
Stop Frequency	5.78500 GHz	5.78500 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
Preamplifier	off	off

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

Customized settings.

Table 22: 6 dB Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Band Edge Right	Max Level	Result
MHz	MHz	MHz	MHz	MHz	MHz	dBm	
5775.000000	19.150000	0.500000	---	5765.425000	5784.575000	6.9	PASS

6 dB Bandwidth

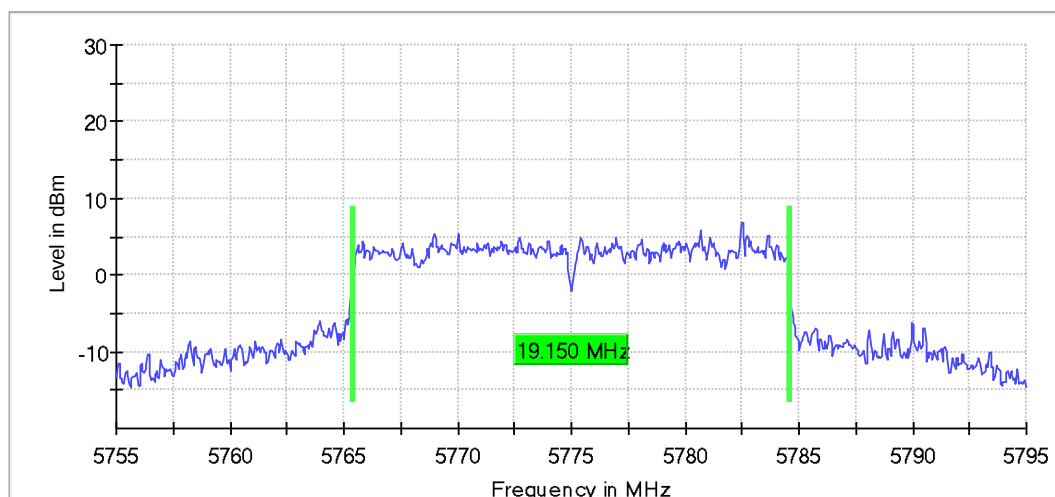
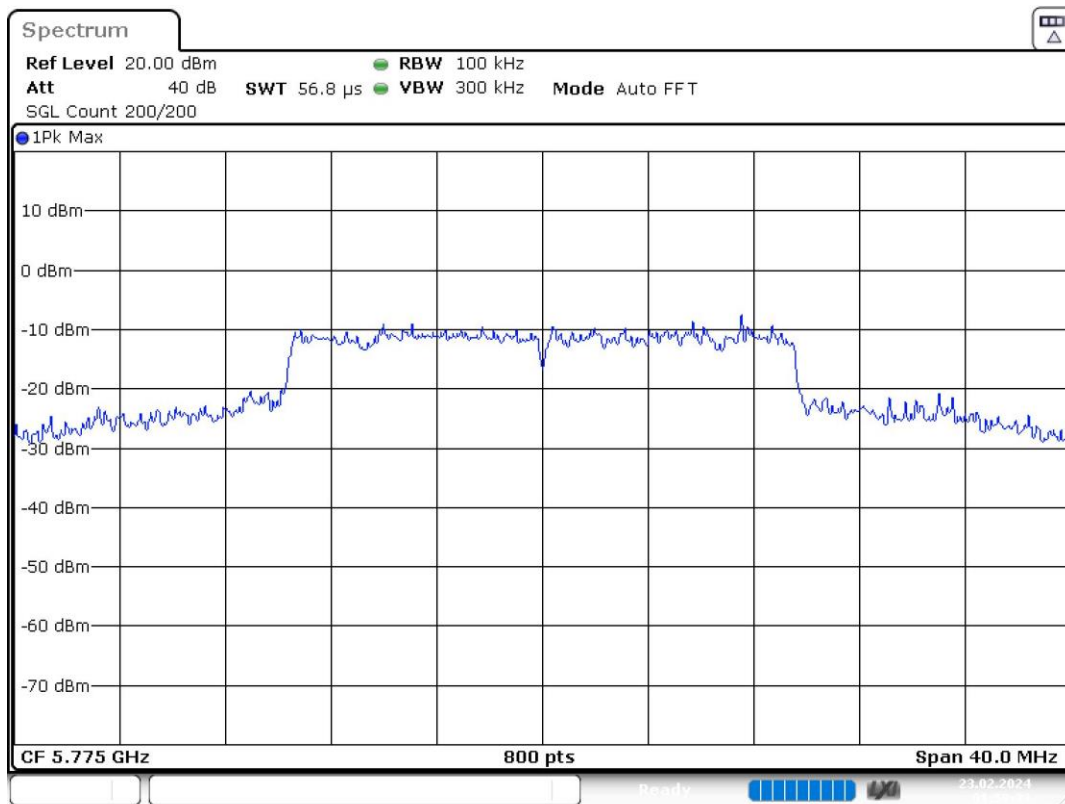


Figure 10: 6 dB Bandwidth



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

Customized settings.

Table 23: 99 % Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Band Edge Right	Result
MHz	MHz	MHz	MHz	MHz	MHz	
5775.000000	32.079208	---	---	5759.950495	5792.029703	PASS

99 % Bandwidth

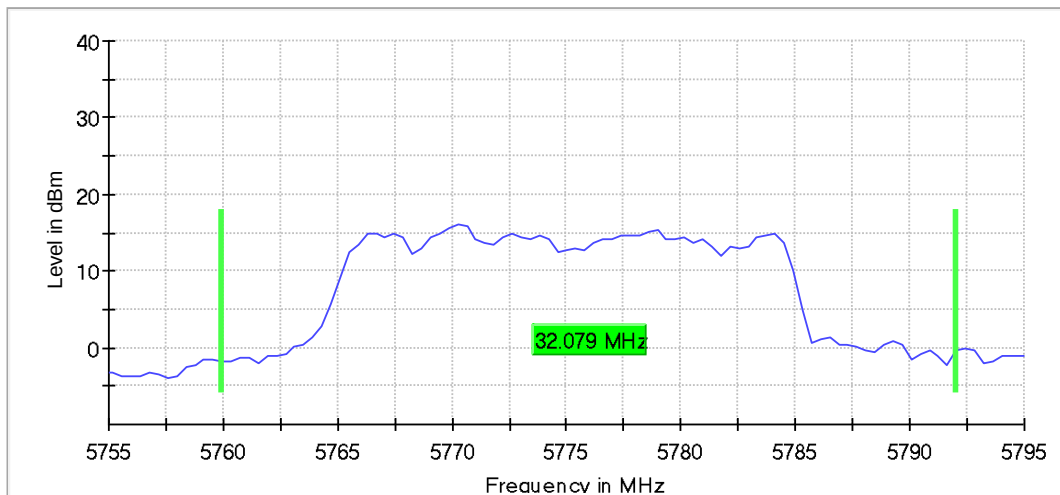
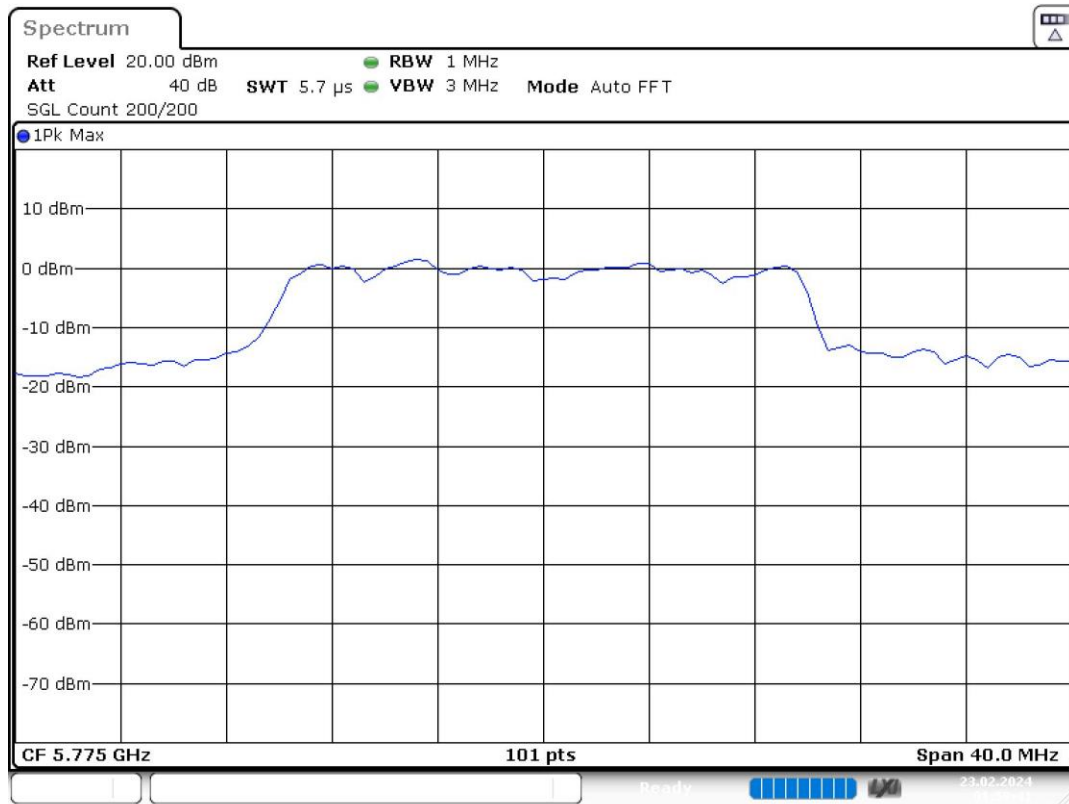


Figure 11: 99 % Bandwidth



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Table 24: Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.75500 GHz	5.75500 GHz
Stop Frequency	5.79500 GHz	5.79500 GHz
Span	40.000 MHz	40.000 MHz
RBW	1.000 MHz	≥ 666.667 kHz
VBW	3.000 MHz	≥ 3.000 MHz
SweepPoints	101	~ 80
Sweptime	5.681 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

2.11 Tx Spurious Emission (5775 MHz, 20 MHz, 24.000 dBm)

Customized settings.

Table 25: Result

DUT Frequency	Result
MHz	
5775.000000	PASS

Table 26: Final measurements

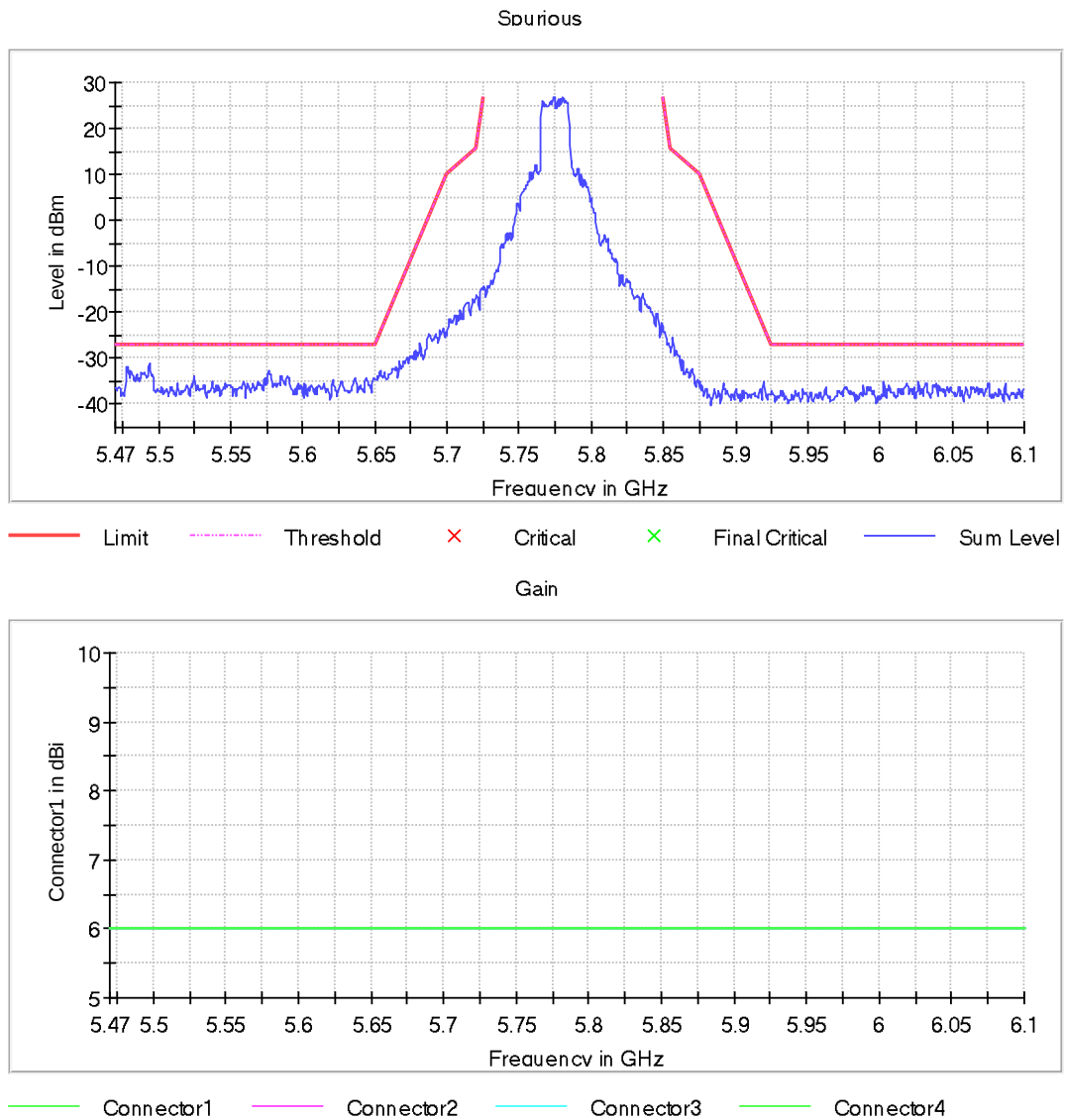
Frequency	Level Pre Measurement	level	Limit	Margin	Result
MHz	dBm	dBm	dBm	dB	
---	---	---	---	---	---

Table 27: Pre Measurements

Frequency	Level	Margin	Limit
MHz	dBm	dB	dBm
5493.750000	-31.0	4.0	-27.0
5494.250000	-31.6	4.6	-27.0
5493.250000	-31.7	4.7	-27.0
5478.750000	-31.8	4.8	-27.0
5478.250000	-31.8	4.8	-27.0
5494.750000	-32.7	5.7	-27.0
5480.750000	-32.8	5.8	-27.0
5576.250000	-32.8	5.8	-27.0
5479.250000	-32.9	5.9	-27.0
5488.250000	-32.9	5.9	-27.0
5477.750000	-32.9	5.9	-27.0
5481.250000	-32.9	5.9	-27.0
5576.750000	-33.0	6.0	-27.0
5489.750000	-33.0	6.0	-27.0
5492.750000	-33.2	6.2	-27.0

Table 28: Measurement Settings

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



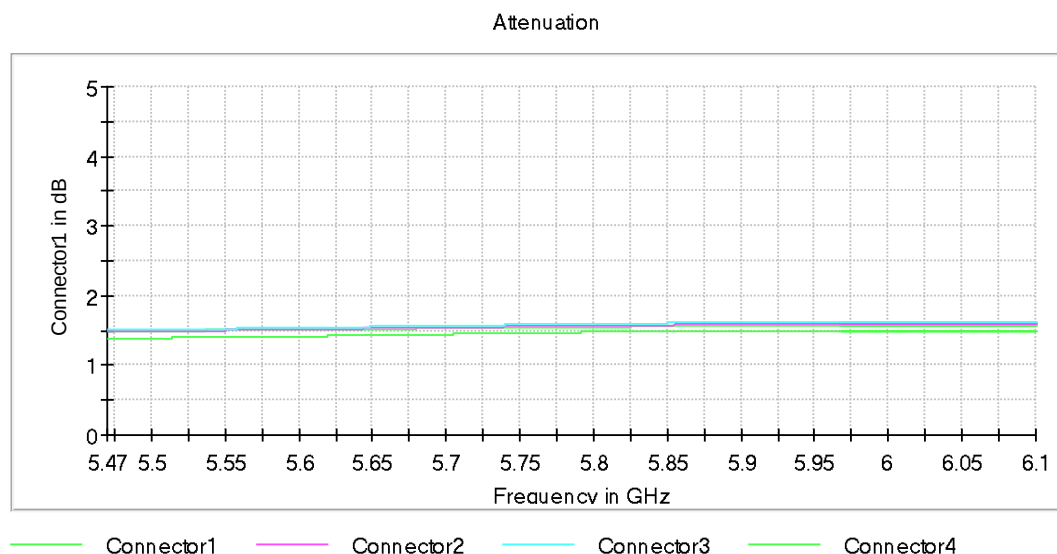


Figure 12: Attenuation

Figure 13: Gain

Figure 14: Spurious

Table 29: 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	-10.000 dBm	-10.000 dBm
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off

2.12 Emission Bandwidth 26 dB (5825 MHz, 20 MHz, 24.000 dBm)

Customized settings.

Table 30: 26 dB Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Band Edge Right	Max Level	Result
MHz	MHz	MHz	MHz	MHz	MHz	dBm	
5825.000000	62.300000	---	---	5788.150000	5850.450000	7.0	PASS

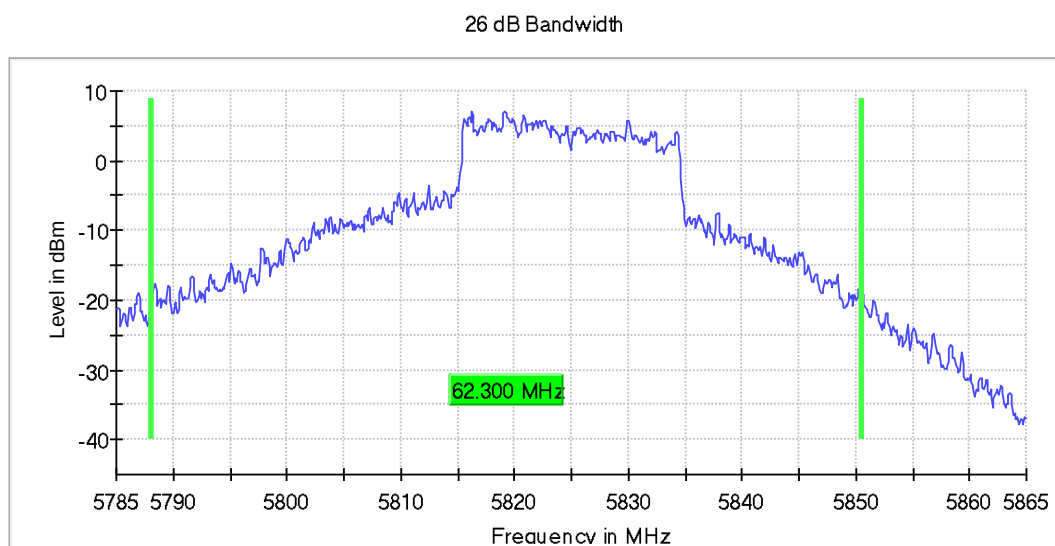
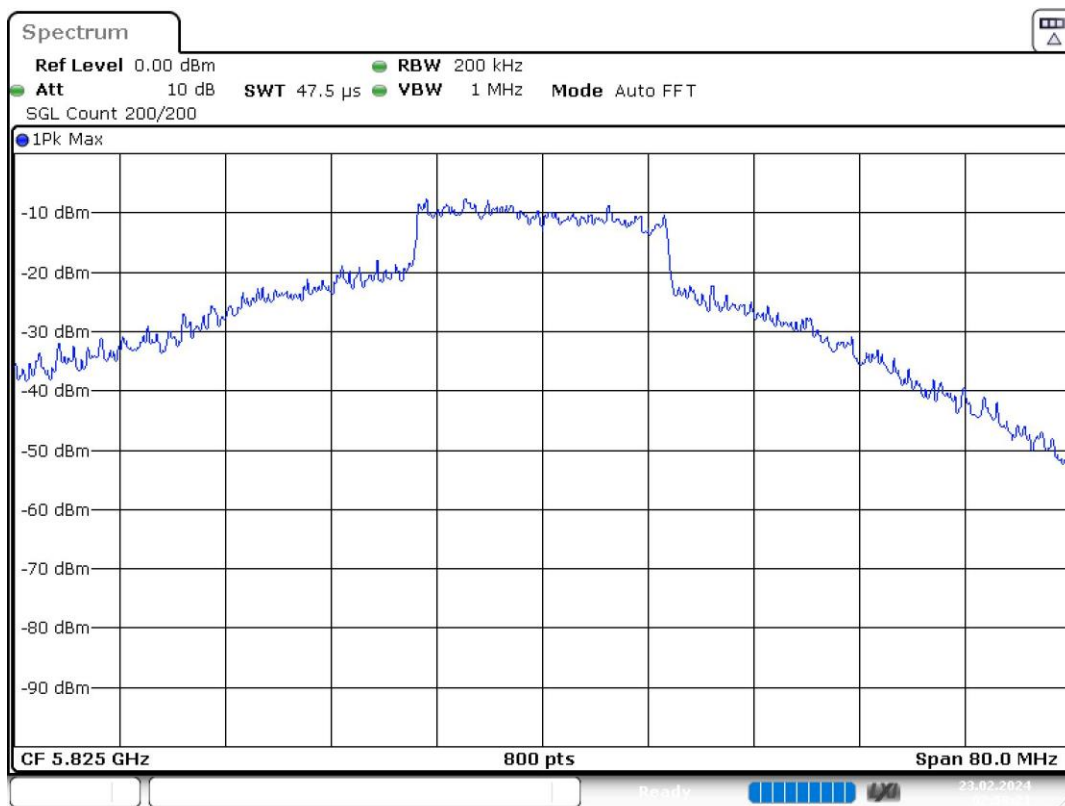


Figure 15: 26 dB Bandwidth



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2.13 Power Spectral Density (5825 MHz, 20 MHz, 24.000 dBm)

Customized settings.

Table 31: Result

DUT Frequency	Frequency	PSD	Limit Max	Result
MHz	MHz	dBm	dBm	
5825.000000	5816.287129	10.023	30.0	PASS

Table 32: Ports

Port	State
1	used
2	used
3	used
4	used

Power Spectral Density

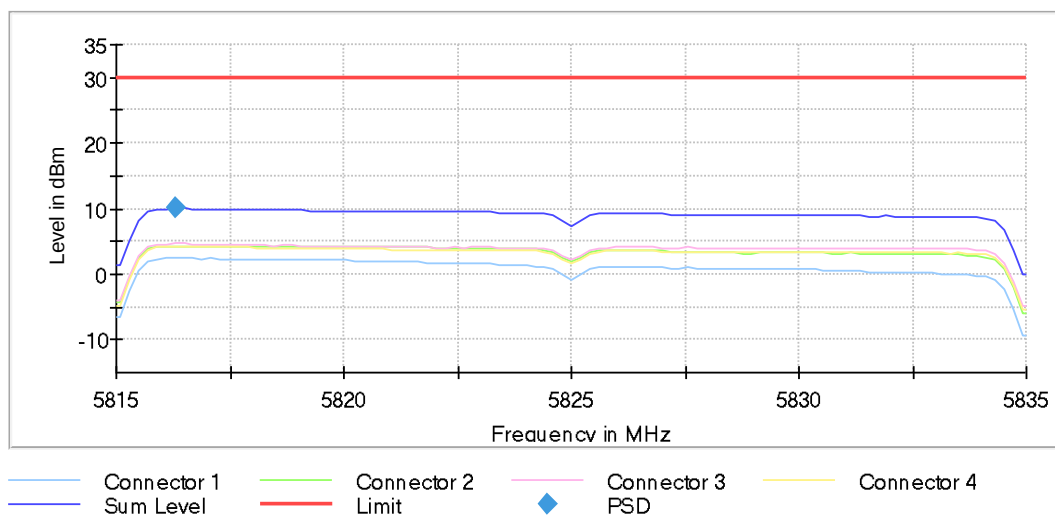


Figure 16: Power Spectral Density

Table 33: Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.81500 GHz	5.81500 GHz
Stop Frequency	5.83500 GHz	5.83500 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
Preamplifier	off	off

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

Customized settings.

Table 34: 6 dB Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Band Edge Right	Max Level	Result
MHz	MHz	MHz	MHz	MHz	MHz	dBm	
5825.000000	19.000000	0.500000	---	5815.425000	5834.425000	6.3	PASS

6 dB Bandwidth

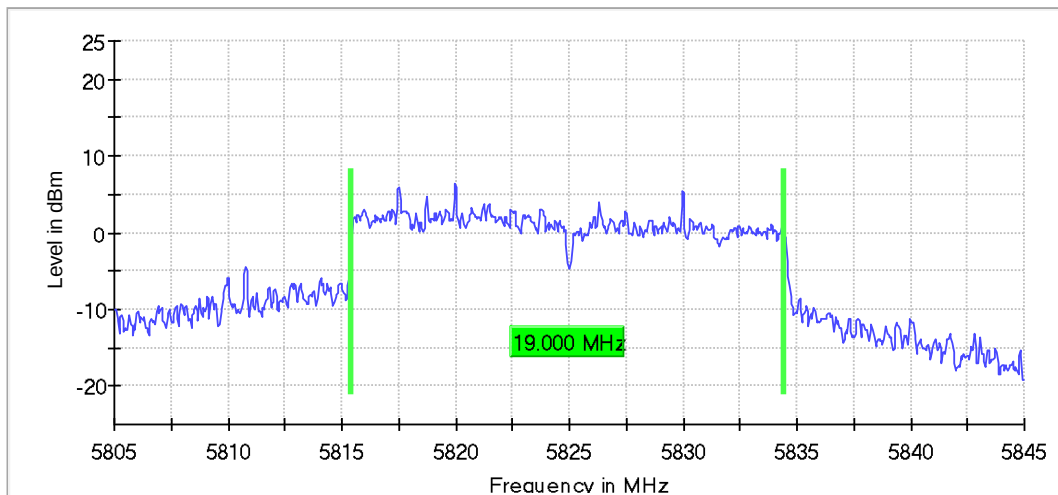
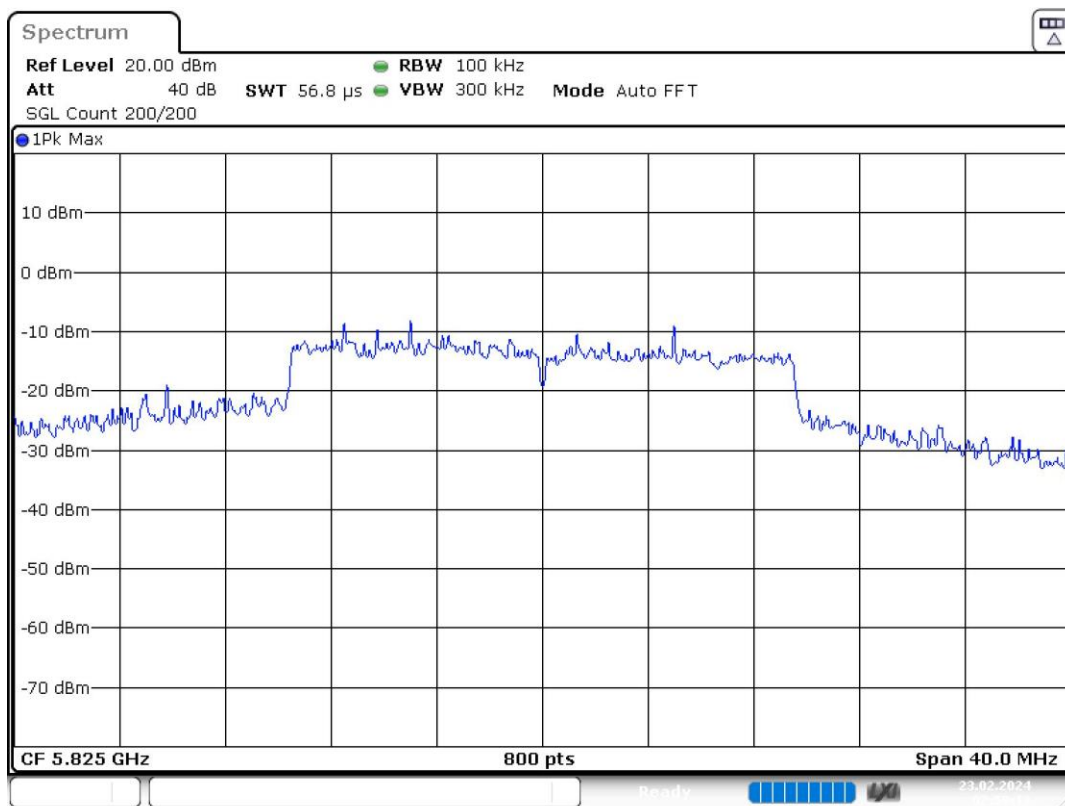


Figure 17: 6 dB Bandwidth



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

Customized settings.

Table 35: 99 % Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Band Edge Right	Result
MHz	MHz	MHz	MHz	MHz	MHz	
5825.000000	32.079208	---	---	5807.178218	5839.257426	PASS

99 % Bandwidth

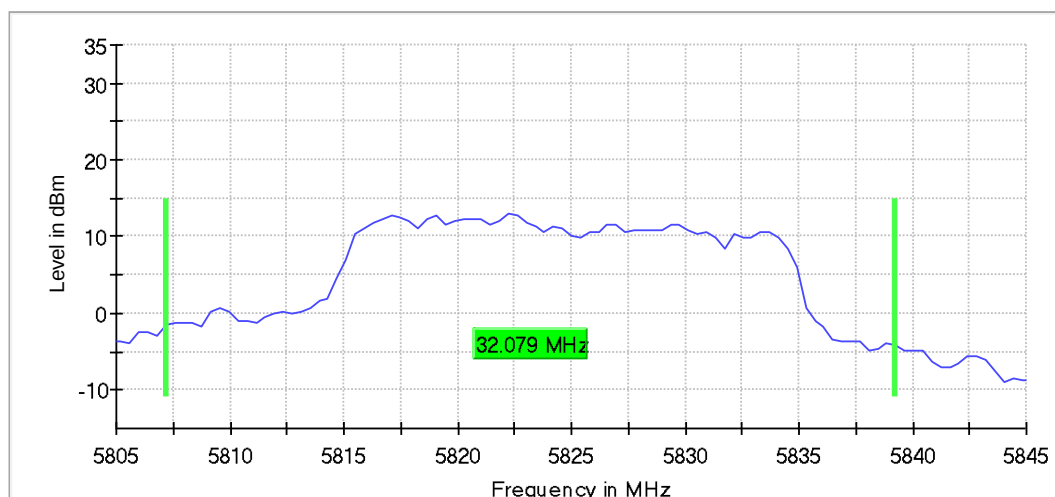
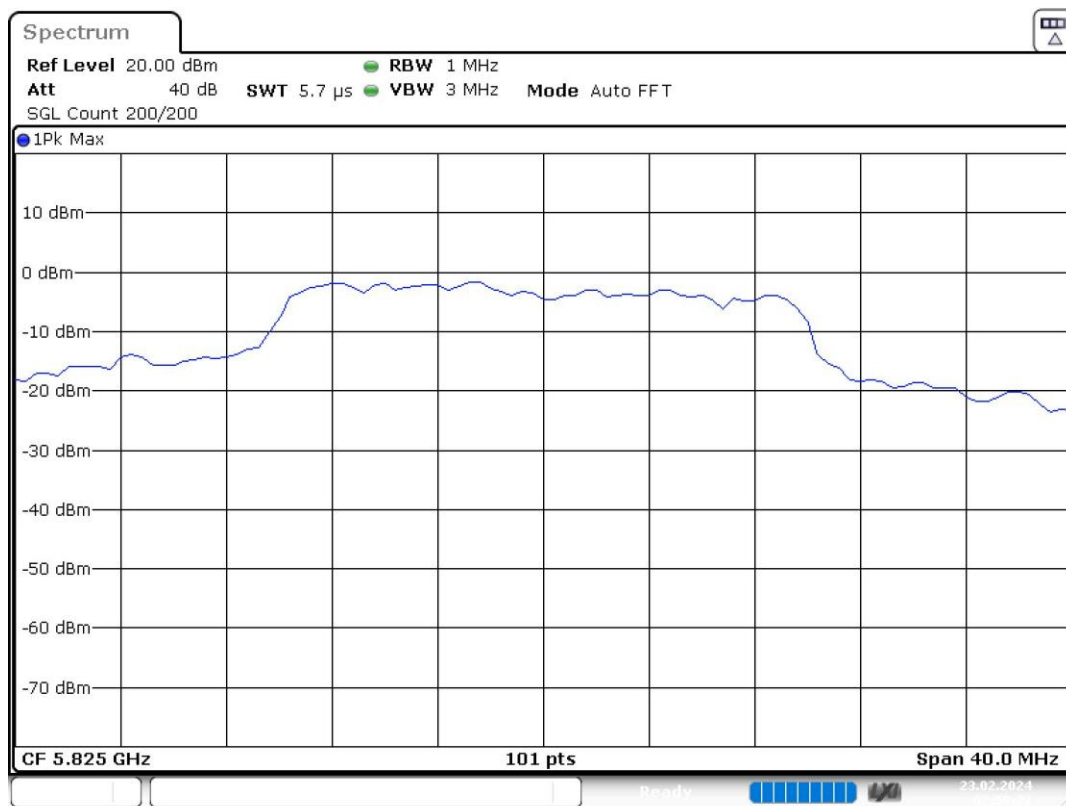


Figure 18: 99 % Bandwidth



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Table 36: Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.80500 GHz	5.80500 GHz
Stop Frequency	5.84500 GHz	5.84500 GHz
Span	40.000 MHz	40.000 MHz
RBW	1.000 MHz	≥ 666.667 kHz
VBW	3.000 MHz	≥ 3.000 MHz
SweepPoints	101	~ 80
Sweptime	5.681 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

2.16 Tx Spurious Emission (5825 MHz, 20 MHz, 24.000 dBm)

Customized settings.

Table 37: Result

DUT Frequency	Result
MHz	
5825.000000	PASS

Table 38: Final measurements

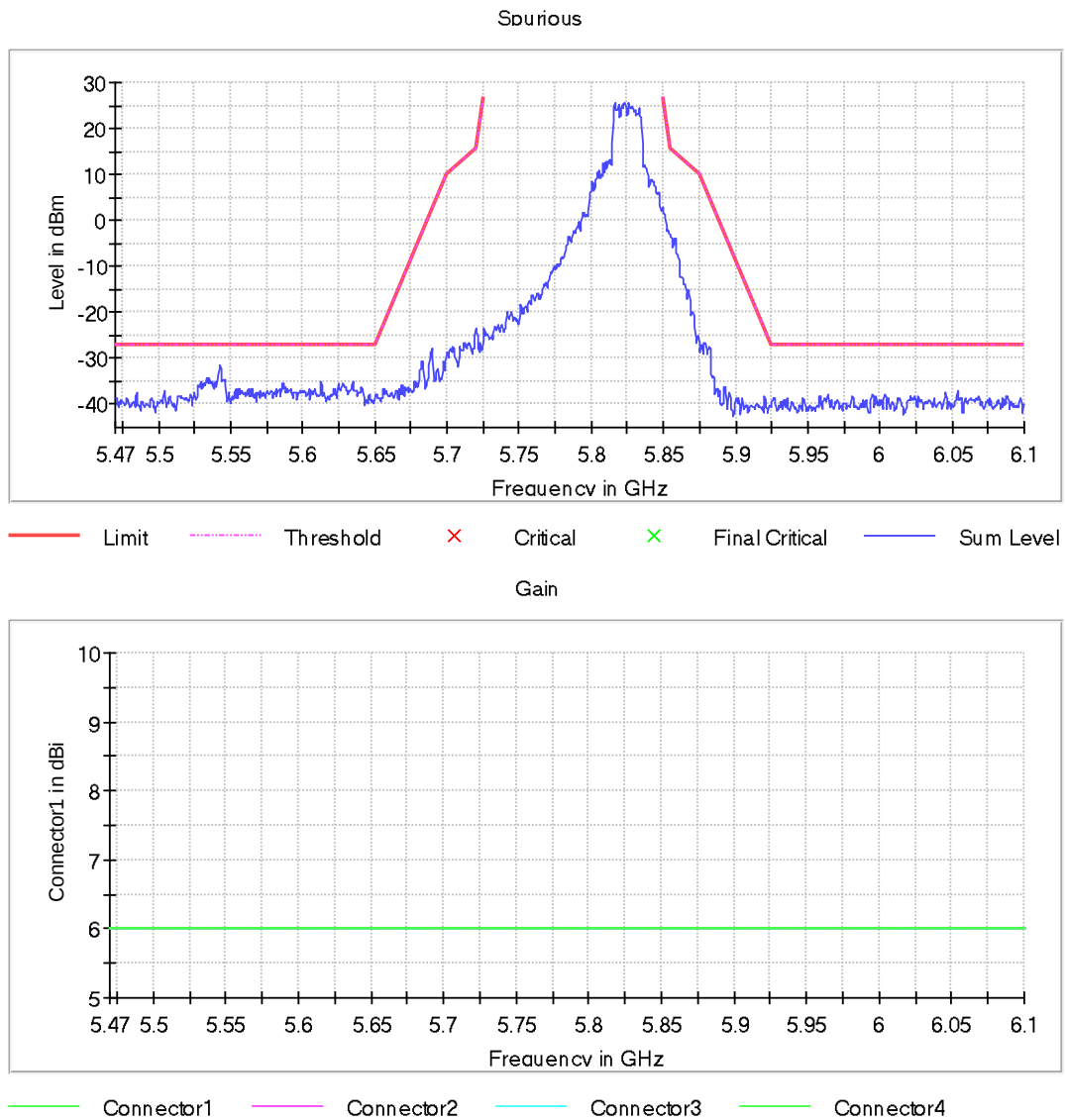
Frequency	Level Pre Measurement	level	Limit	Margin	Result
MHz	dBm	dBm	dBm	dB	
---	---	---	---	---	---

Table 39: Pre Measurements

Frequency	Level	Margin	Limit
MHz	dBm	dB	dBm
5542.750000	-31.6	4.6	-27.0
5542.250000	-32.2	5.2	-27.0
5543.250000	-32.4	5.4	-27.0
5541.250000	-33.8	6.8	-27.0
5543.750000	-33.9	6.9	-27.0
5541.750000	-34.0	7.0	-27.0
5540.750000	-34.3	7.3	-27.0
5533.250000	-34.4	7.4	-27.0
5535.250000	-34.4	7.4	-27.0
5544.750000	-34.5	7.5	-27.0
5545.250000	-34.5	7.5	-27.0
5534.750000	-34.6	7.6	-27.0
5546.250000	-34.8	7.8	-27.0
5537.250000	-34.8	7.8	-27.0
5533.750000	-34.8	7.8	-27.0

Table 40: Measurement Settings

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



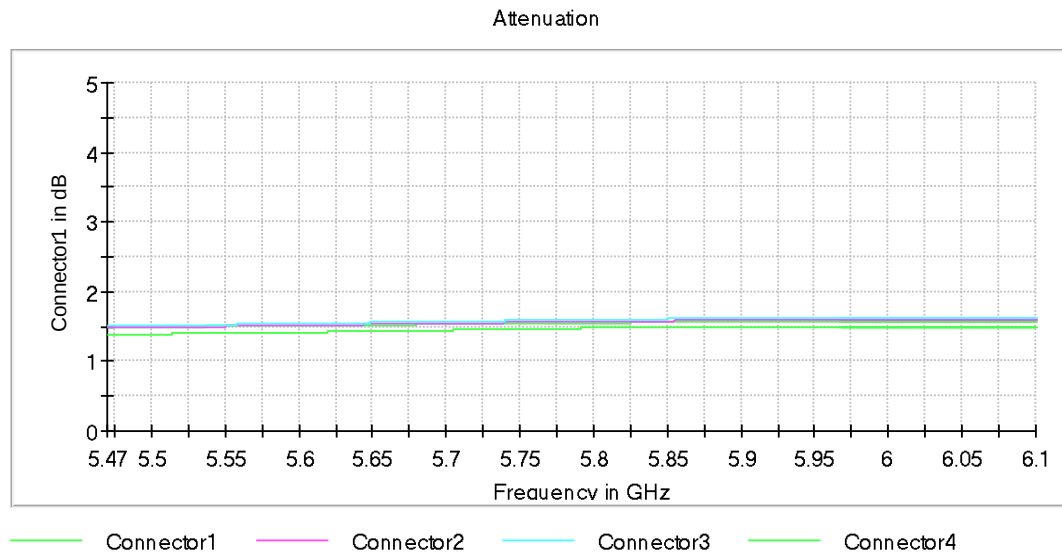


Figure 19: Attenuation

Figure 20: Gain

Figure 21: Spurious

Table 41: 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	-10.000 dBm	-10.000 dBm
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamplifier	off	off

2.17 Emission Bandwidth 26 dB (5755 MHz, 40 MHz, 24.000 dBm)

Customized settings.

Table 42: 26 dB Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Band Edge Right	Max Level	Result
MHz	MHz	MHz	MHz	MHz	MHz	dBm	
5755.000000	43.350000	---	---	5733.175000	5776.525000	4.6	PASS

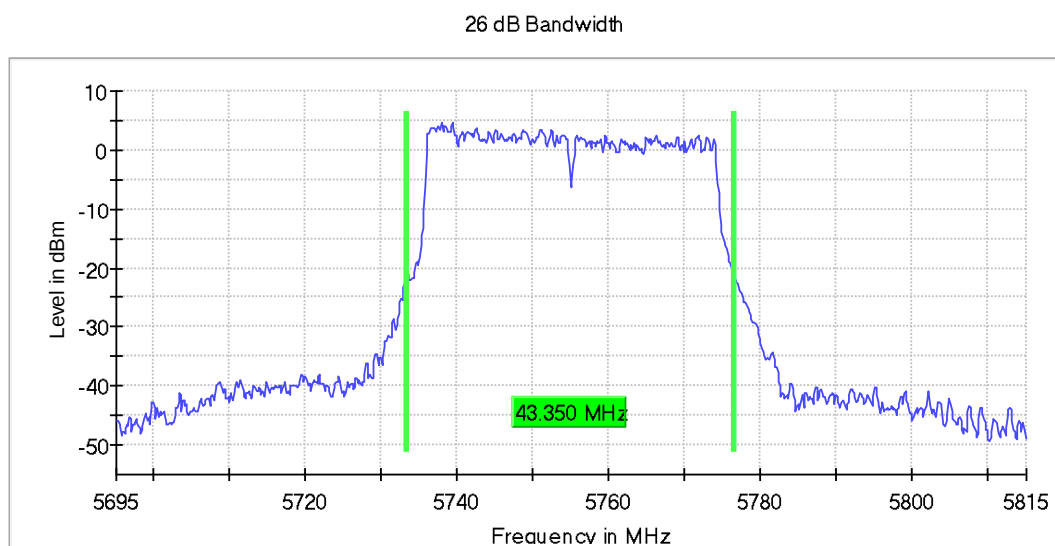
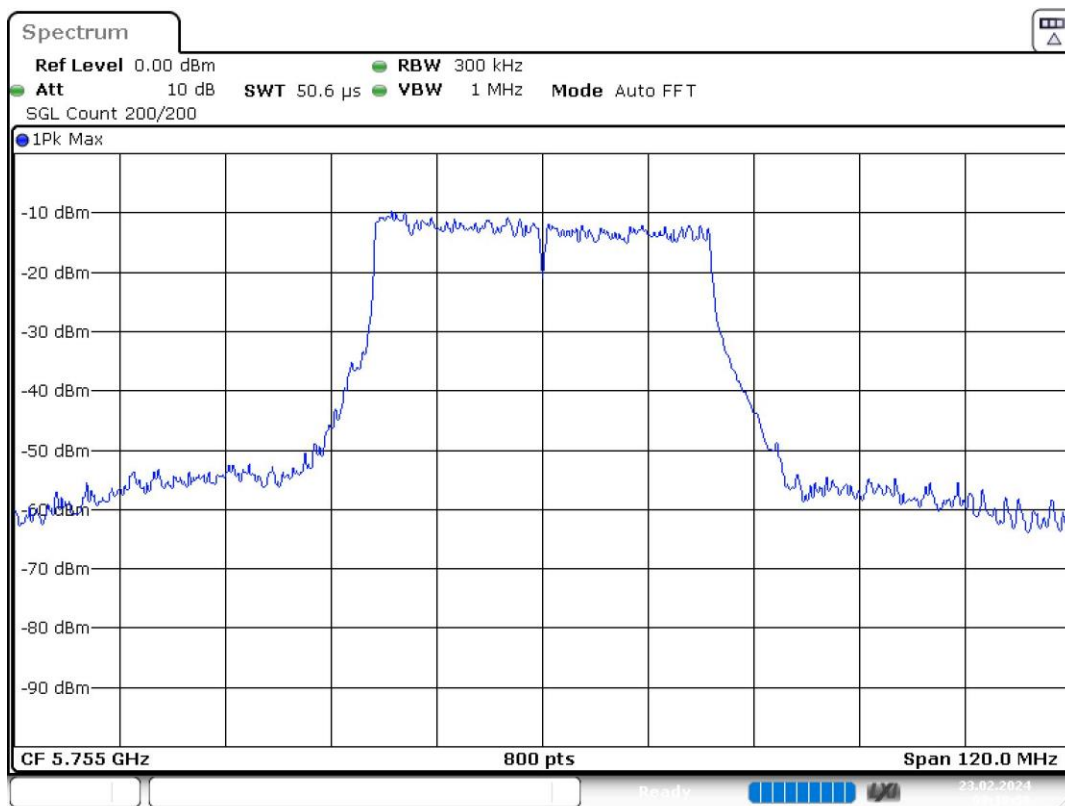


Figure 22: 26 dB Bandwidth



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2.18 Power Spectral Density (5755 MHz, 40 MHz, 24.000 dBm)

Customized settings.

Table 43: Result

DUT Frequency	Frequency	PSD	Limit Max	Result
MHz	MHz	dBm	dBm	
5755.000000	5736.625000	5.334	30.0	PASS

Table 44: Ports

Port	State
1	used
2	used
3	used
4	used

Power Spectral Density

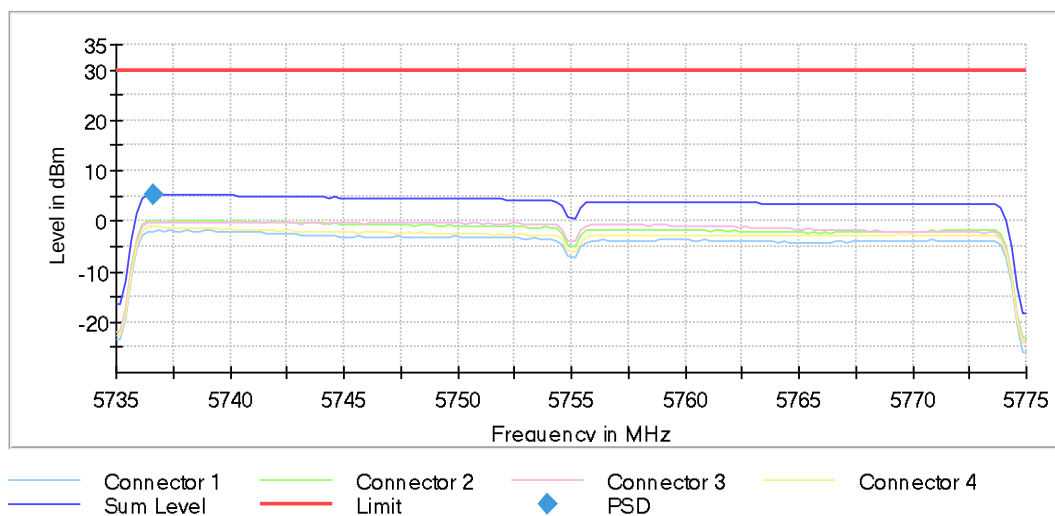


Figure 23: Power Spectral Density

Table 45: Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.73500 GHz	5.73500 GHz
Stop Frequency	5.77500 GHz	5.77500 GHz
Span	40.000 MHz	40.000 MHz
RBW	500.000 kHz	<= 500.000 kHz
VBW	2.000 MHz	>= 1.500 MHz
SweepPoints	160	~ 160
SweepTime	3.200 ms	3.200 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	Sweep	AUTO
Preamplifier	off	off

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

Customized settings.

Table 46: 6 dB Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Band Edge Right	Max Level	Result
MHz	MHz	MHz	MHz	MHz	MHz	dBm	
5755.000000	38.200000	0.500000	---	5735.825000	5774.025000	1.2	PASS

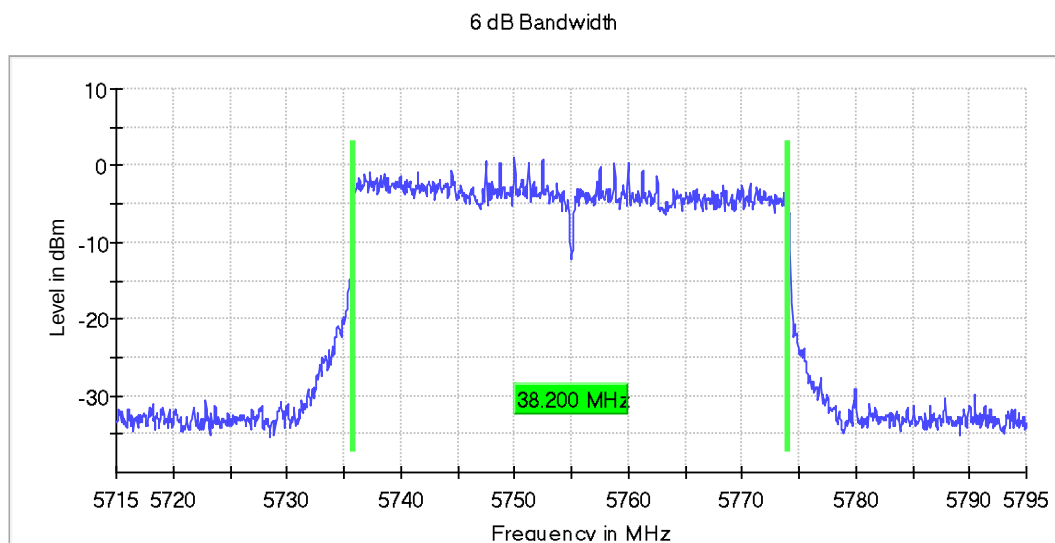
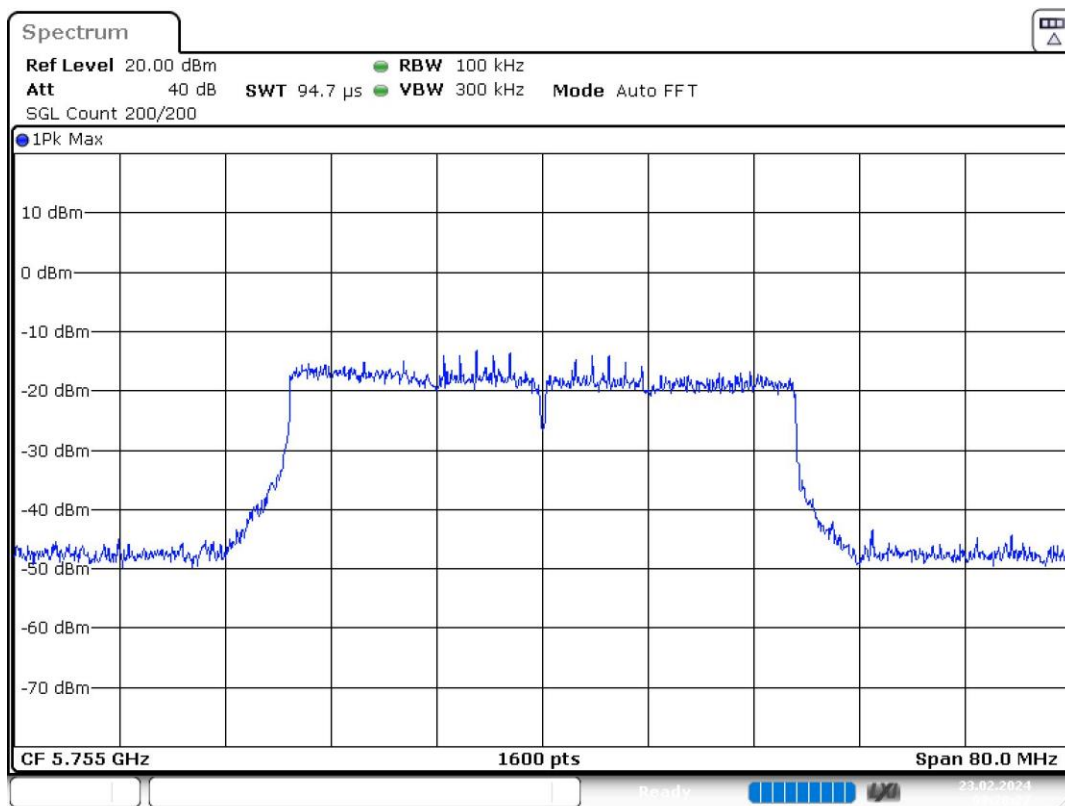


Figure 24: 6 dB Bandwidth



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

Customized settings.

Table 47: 99 % Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Band Edge Right	Result
MHz	MHz	MHz	MHz	MHz	MHz	
5755.000000	40.396039	---	---	5734.405941	5774.801980	PASS

99 % Bandwidth

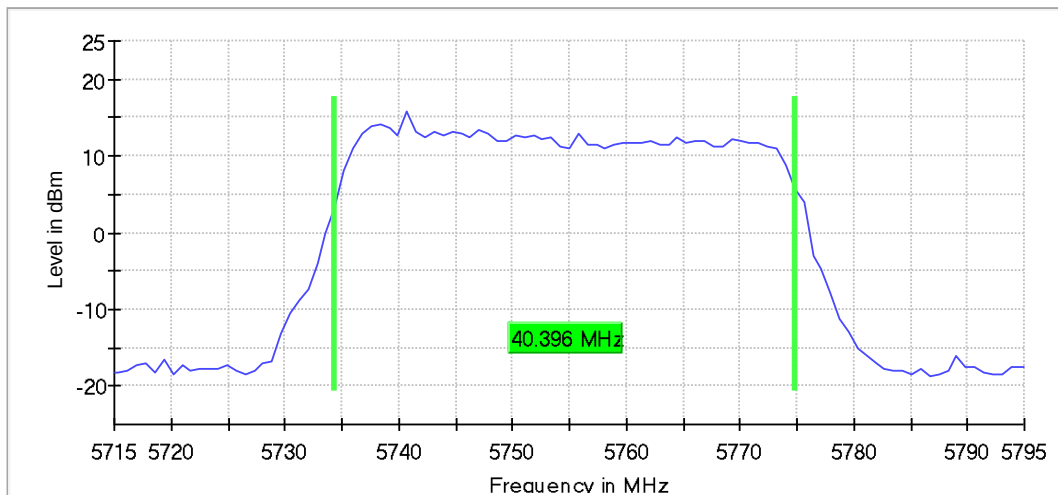
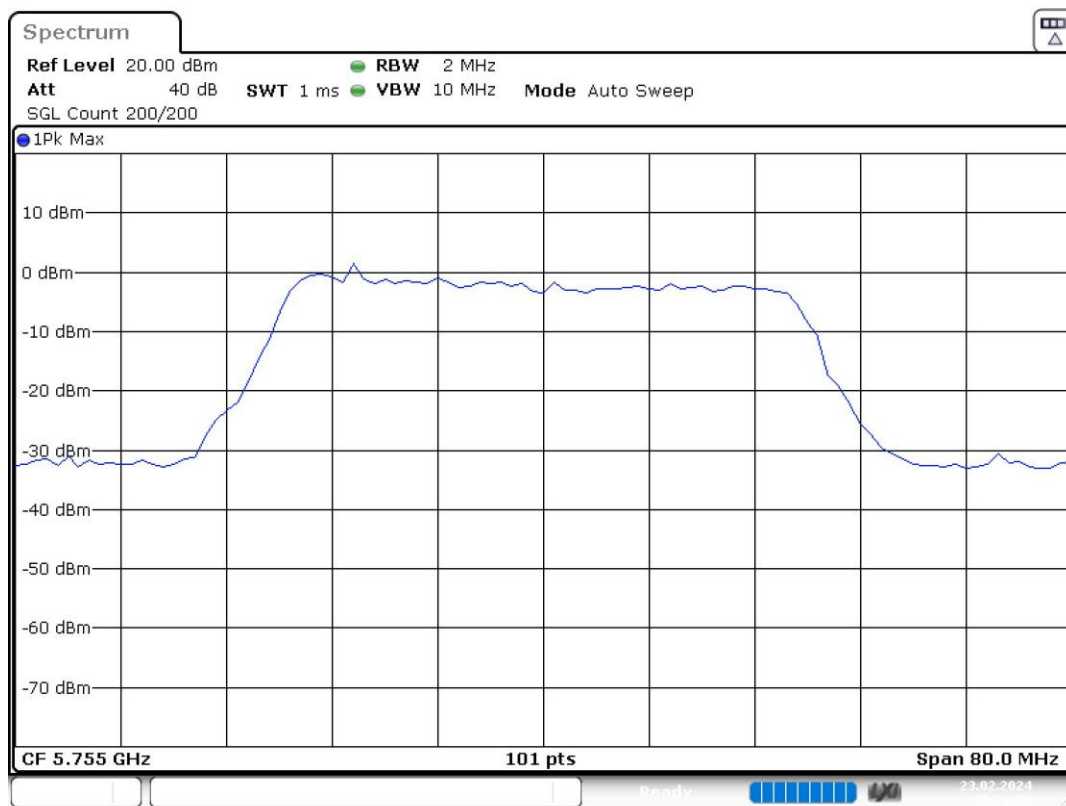


Figure 25: 99 % Bandwidth



Date: 23.FEB.2024 03:20:35

Table 48: Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.71500 GHz	5.71500 GHz
Stop Frequency	5.79500 GHz	5.79500 GHz
Span	80.000 MHz	80.000 MHz
RBW	2.000 MHz	≥ 1.333 MHz
VBW	10.000 MHz	≥ 6.000 MHz
SweepPoints	101	~ 80
Sweptime	1.000 ms	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	Sweep	AUTO
Preamp	off	off

2.21 Tx Spurious Emission (5755 MHz, 40 MHz, 24.000 dBm)

Customized settings.

Table 49: Result

DUT Frequency	Result
MHz	
5755.000000	PASS

Table 50: Final measurements

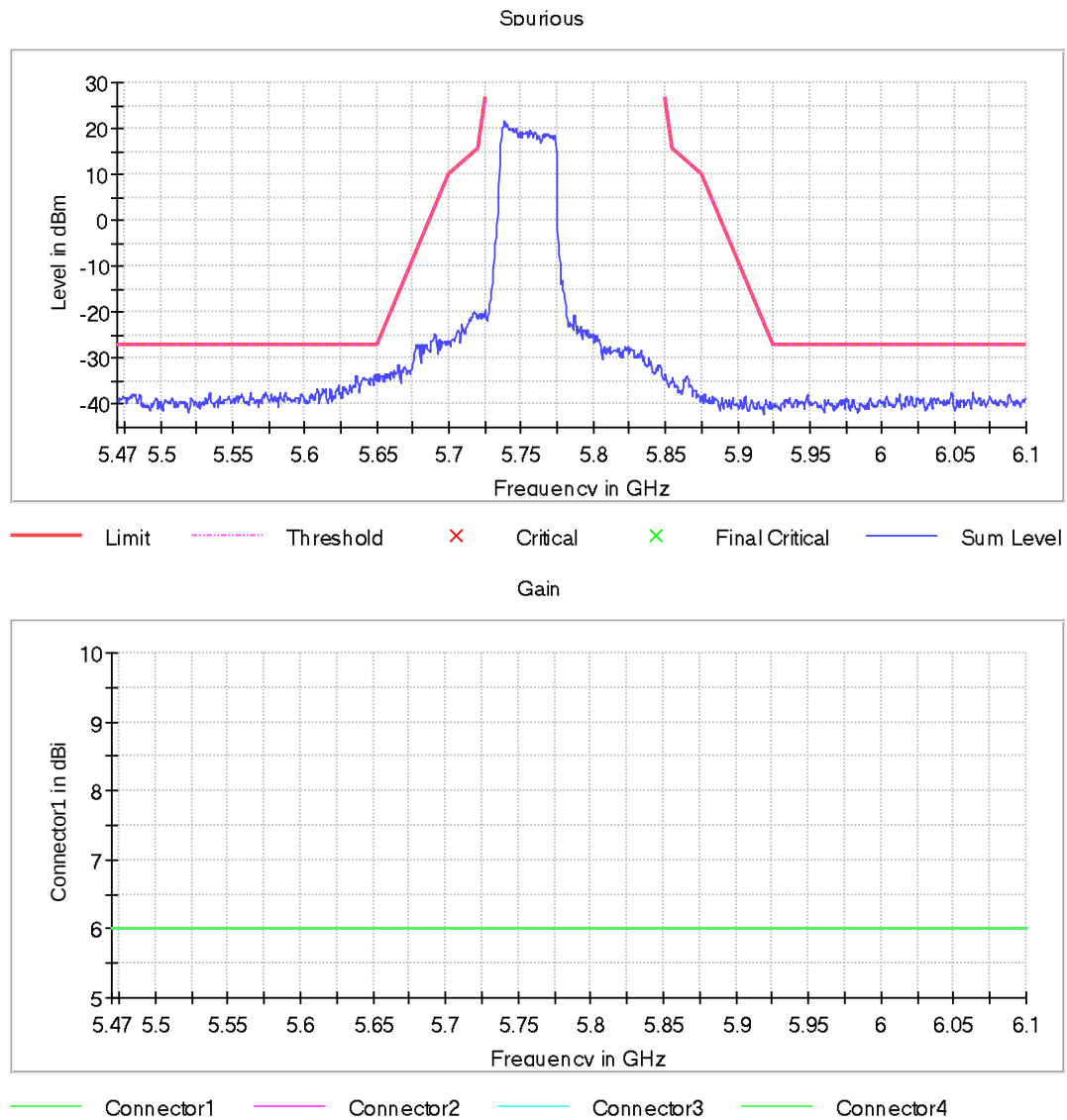
Frequency	Level Pre Measurement	level	Limit	Margin	Result
MHz	dBm	dBm	dBm	dB	
---	---	---	---	---	---

Table 51: Pre Measurements

Frequency	Level	Margin	Limit
MHz	dBm	dB	dBm
5648.750000	-33.6	6.6	-27.0
5648.250000	-33.7	6.7	-27.0
5636.250000	-33.9	6.9	-27.0
5650.750000	-33.4	6.9	-26.4
5635.750000	-34.0	7.0	-27.0
5650.250000	-33.9	7.1	-26.8
5651.250000	-33.3	7.2	-26.1
5641.250000	-34.2	7.2	-27.0
5645.750000	-34.4	7.4	-27.0
5640.750000	-34.4	7.4	-27.0
5646.250000	-34.5	7.5	-27.0
5640.250000	-34.6	7.6	-27.0
5642.250000	-34.6	7.6	-27.0
5649.250000	-34.6	7.6	-27.0
5643.750000	-34.6	7.6	-27.0

Table 52: Measurement Settings

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



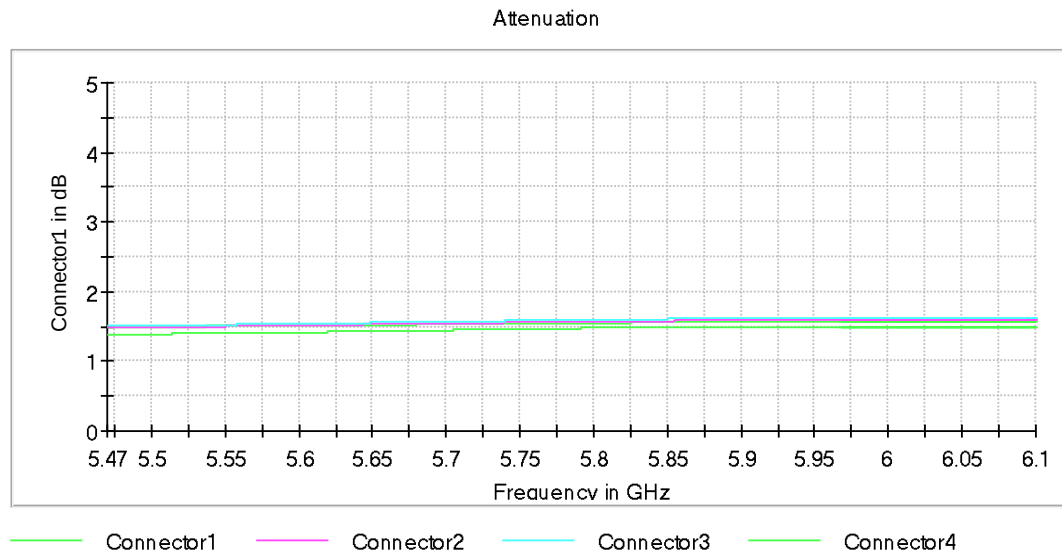


Figure 26: Attenuation

Figure 27: Gain

Figure 28: Spurious

Table 53: 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	15.000 dBm	AUTO
Attenuation	25.000 dB	5.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off

2.22 Emission Bandwidth 26 dB (5775 MHz, 40 MHz, 24.000 dBm)

Customized settings.

Table 54: 26 dB Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Band Edge Right	Max Level	Result
MHz	MHz	MHz	MHz	MHz	MHz	dBm	
5775.000000	43.227017	---	---	5753.086304	5796.313321	3.9	PASS

26 dB Bandwidth

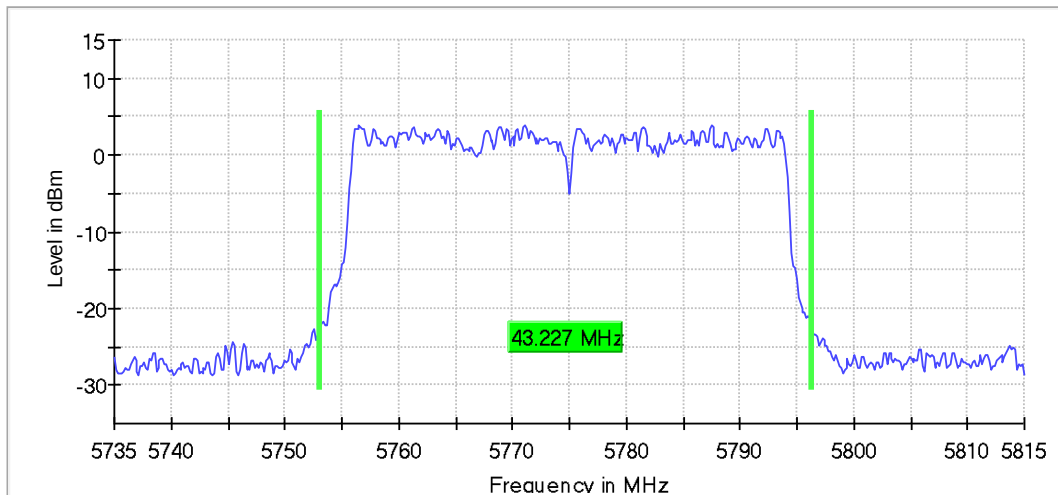
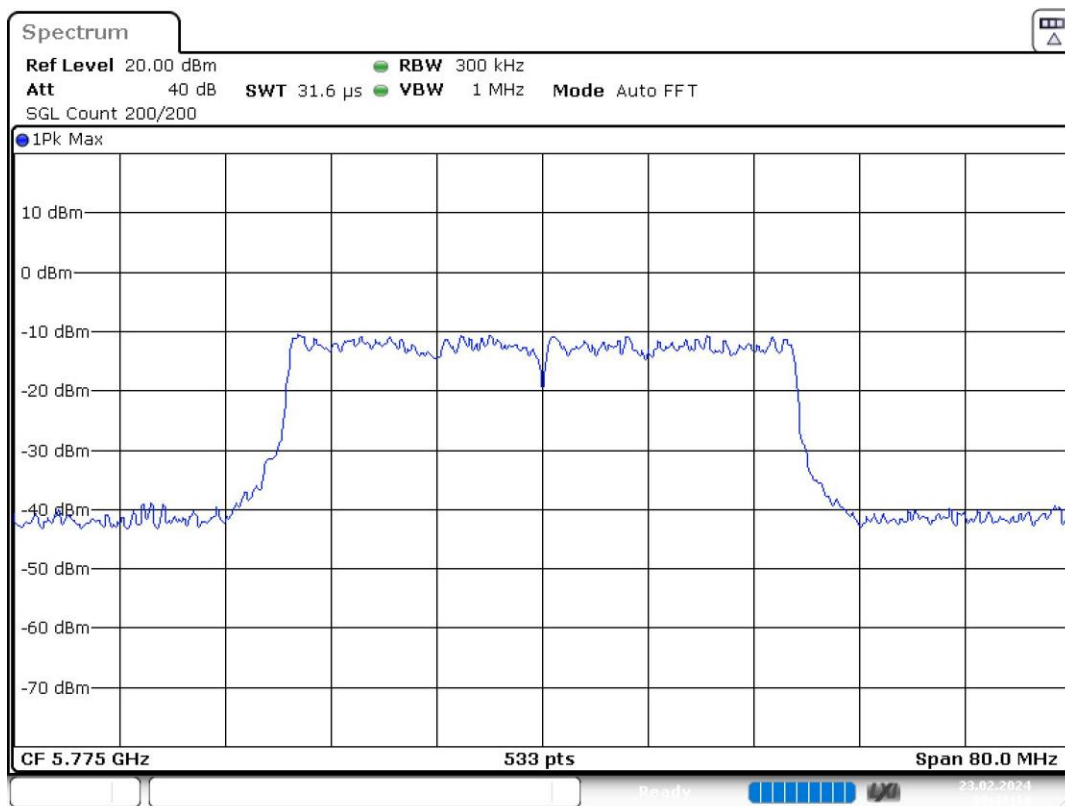


Figure 29: 26 dB Bandwidth



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2.23 Power Spectral Density (5775 MHz, 40 MHz, 24.000 dBm)

Customized settings.

Table 55: Result

DUT Frequency	Frequency	PSD	Limit Max	Result
MHz	MHz	dBm	dBm	
5775.000000	5756.875000	5.185	30.0	PASS

Table 56: Ports

Port	State
1	used
2	used
3	used
4	used

Power Spectral Density

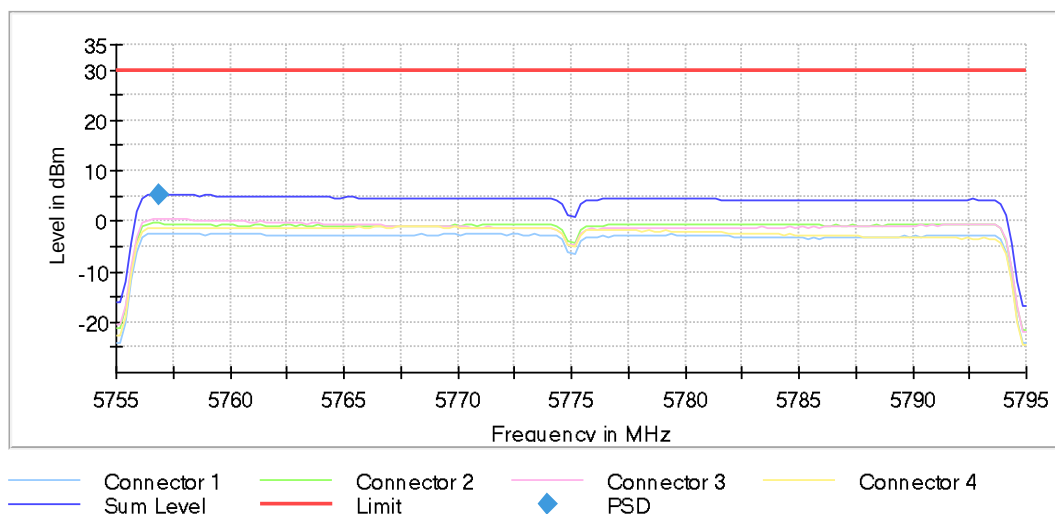


Figure 30: Power Spectral Density

Table 57: Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.75500 GHz	5.75500 GHz
Stop Frequency	5.79500 GHz	5.79500 GHz
Span	40.000 MHz	40.000 MHz
RBW	500.000 kHz	<= 500.000 kHz
VBW	2.000 MHz	>= 1.500 MHz
SweepPoints	160	~ 160
SweepTime	3.200 ms	3.200 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	Sweep	AUTO
Preamplifier	off	off

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

Customized settings.

Table 58: 6 dB Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Band Edge Right	Max Level	Result
MHz	MHz	MHz	MHz	MHz	MHz	dBm	
5775.000000	38.250000	0.500000	---	5755.875000	5794.125000	0.5	PASS

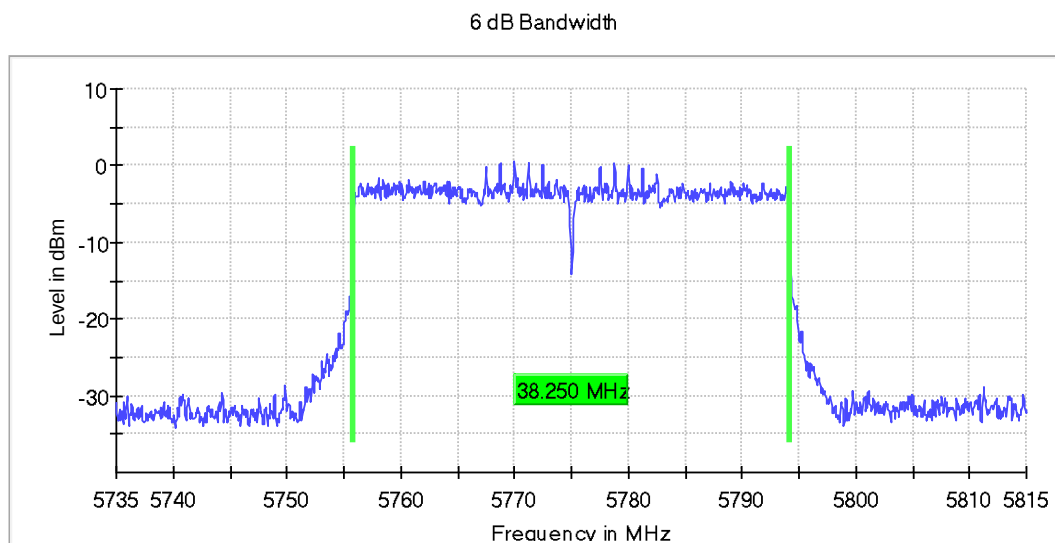
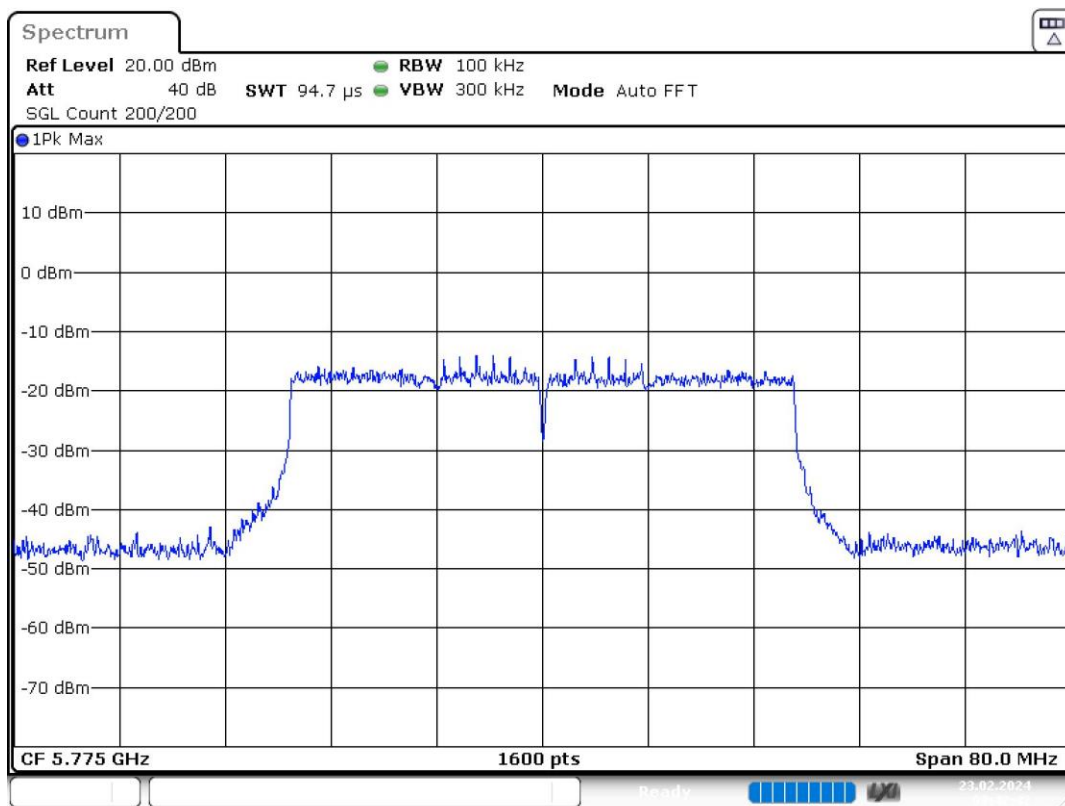


Figure 31: 6 dB Bandwidth



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

Customized settings.

Table 59: 99 % Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Band Edge Right	Result
MHz	MHz	MHz	MHz	MHz	MHz	
5775.000000	38.500000	---	---	5755.750000	5794.250000	PASS

99 % Bandwidth

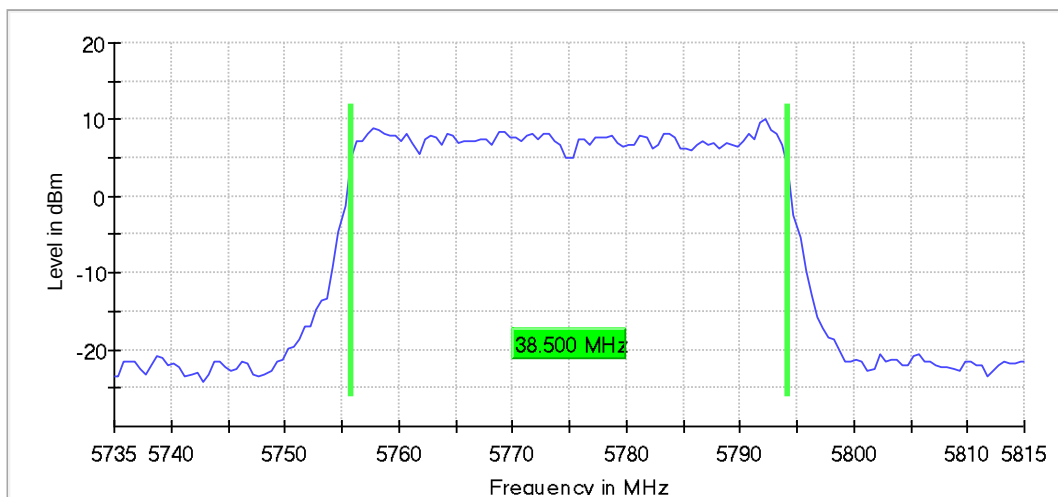
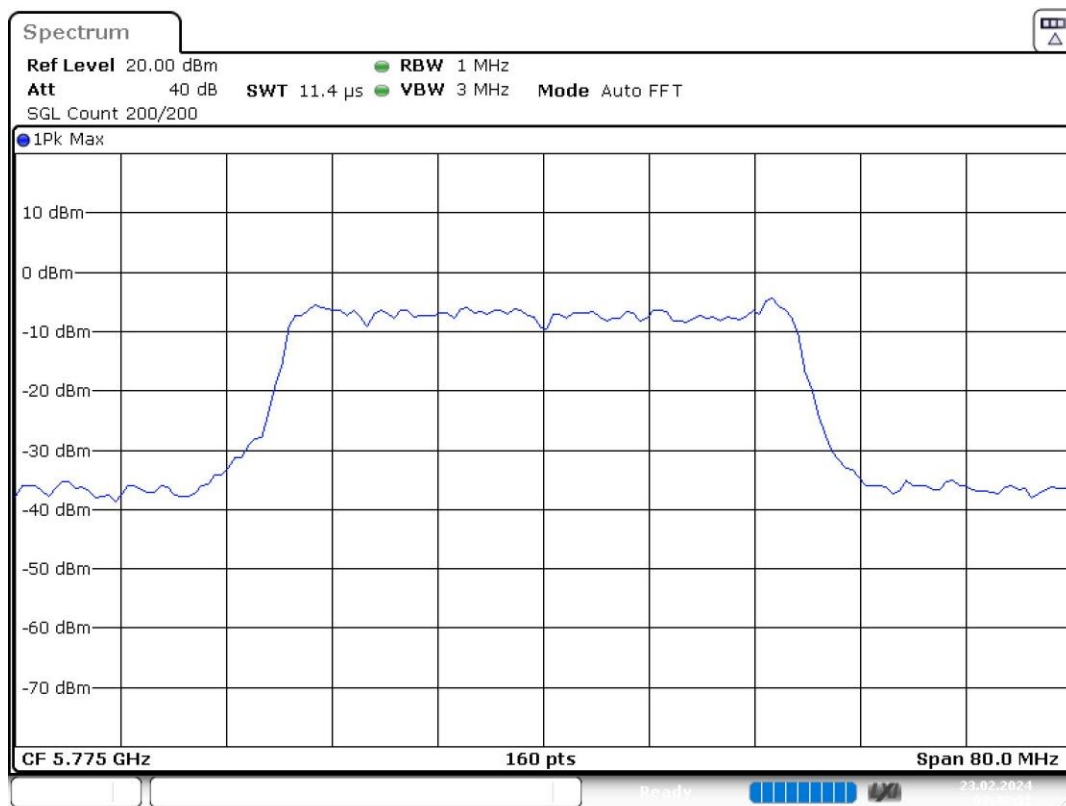


Figure 32: 99 % Bandwidth



Date: 23.FEB.2024 03:42:52

Table 60: Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.73500 GHz	5.73500 GHz
Stop Frequency	5.81500 GHz	5.81500 GHz
Span	80.000 MHz	80.000 MHz
RBW	1.000 MHz	≥ 1.000 MHz
VBW	3.000 MHz	≥ 3.000 MHz
SweepPoints	160	~ 160
Sweptime	11.438 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

2.26 Tx Spurious Emission (5775 MHz, 40 MHz, 24.000 dBm)

Customized settings.

Table 61: Result

DUT Frequency	Result
MHz	
5775.000000	PASS

Table 62: Final measurements

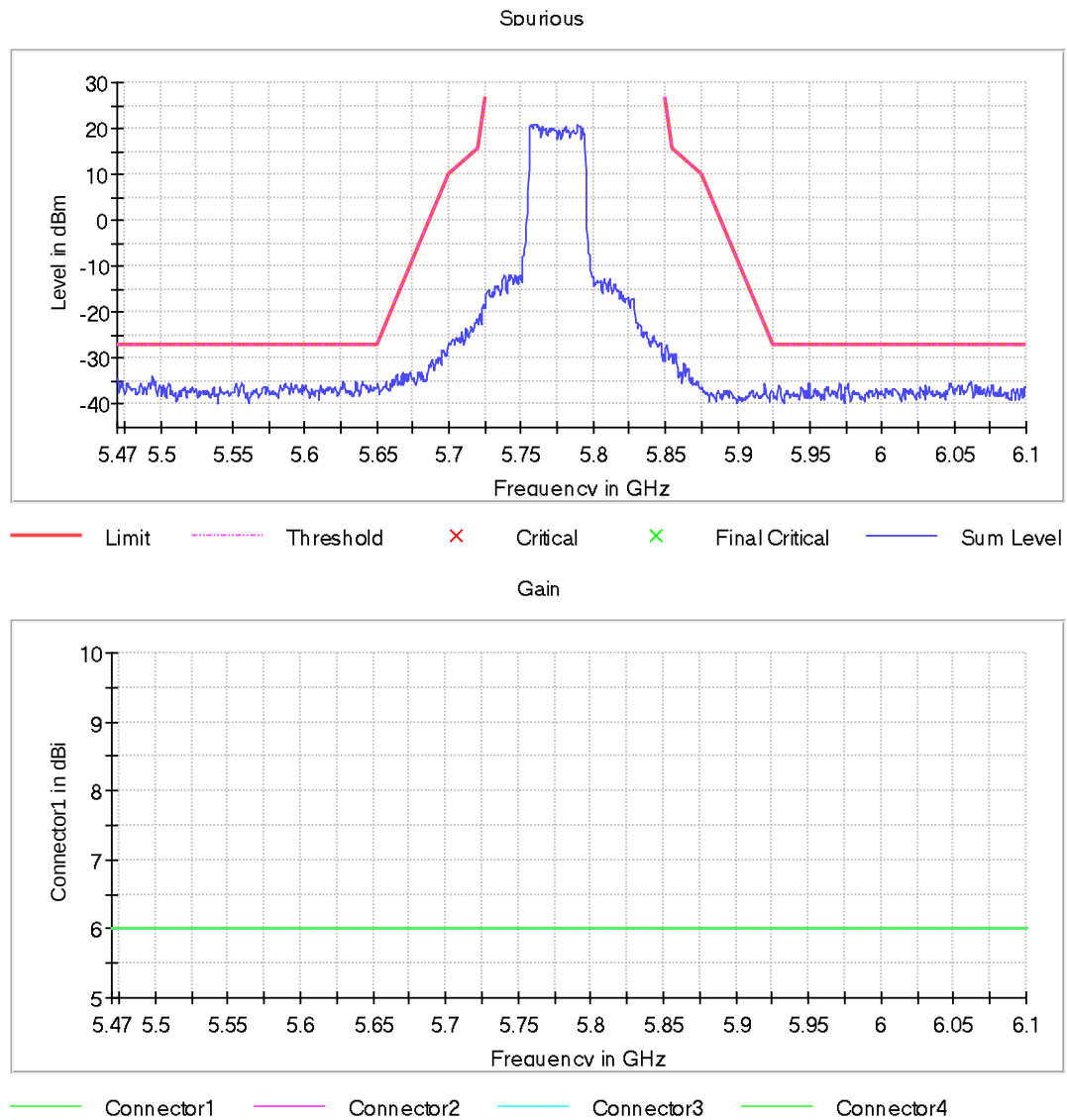
Frequency	Level Pre Measurement	level	Limit	Margin	Result
MHz	dBm	dBm	dBm	dB	
---	---	---	---	---	---

Table 63: Pre Measurements

Frequency	Level	Margin	Limit
MHz	dBm	dB	dBm
5494.750000	-34.0	7.0	-27.0
5470.250000	-34.3	7.3	-27.0
5470.000000	-34.3	7.3	-27.0
5494.250000	-34.4	7.4	-27.0
5495.250000	-34.5	7.5	-27.0
5640.250000	-34.9	7.9	-27.0
6061.750000	-35.0	8.0	-27.0
5493.750000	-35.1	8.1	-27.0
5496.250000	-35.1	8.1	-27.0
5639.750000	-35.1	8.1	-27.0
5626.750000	-35.2	8.2	-27.0
5635.750000	-35.2	8.2	-27.0
5473.250000	-35.2	8.2	-27.0
6060.750000	-35.3	8.3	-27.0
6062.250000	-35.3	8.3	-27.0

Table 64: Measurement Settings

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



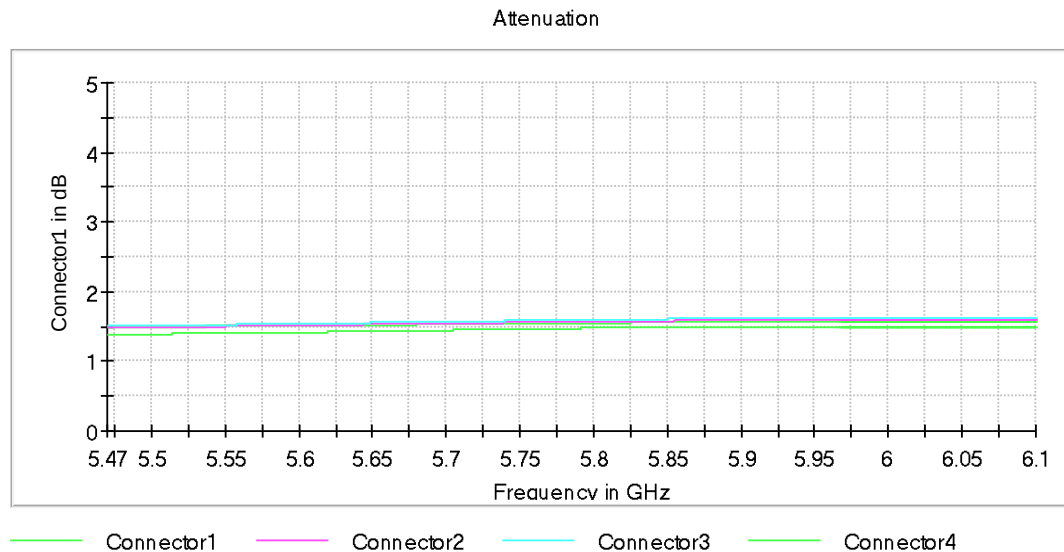


Figure 33: Attenuation

Figure 34: Gain

Figure 35: Spurious

Table 65: 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	-10.000 dBm	-10.000 dBm
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamplifier	off	off

2.27 Emission Bandwidth 26 dB (5795 MHz, 40 MHz, 24.000 dBm)

Customized settings.

Table 66: 26 dB Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Band Edge Right	Max Level	Result
MHz	MHz	MHz	MHz	MHz	MHz	dBm	
5795.000000	60.037523	---	---	5771.435272	5831.472795	4.9	PASS

26 dB Bandwidth

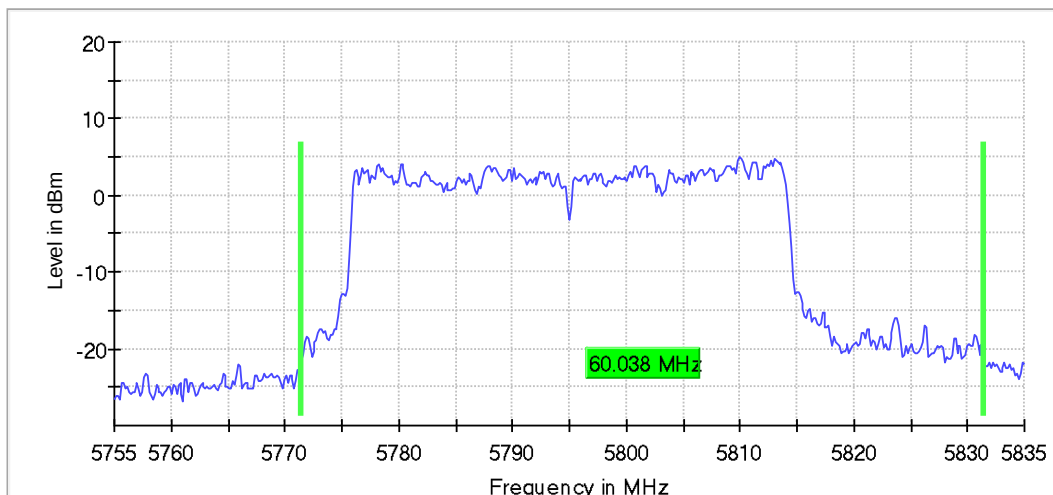
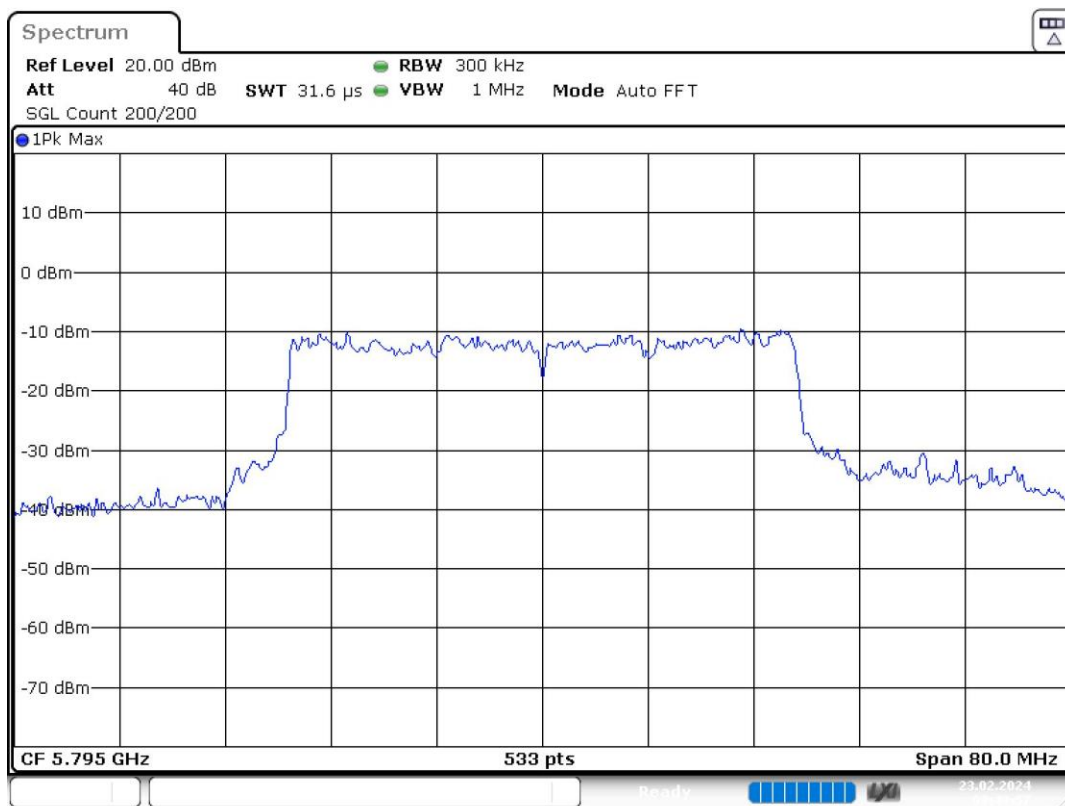


Figure 36: 26 dB Bandwidth



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2.28 Power Spectral Density (5795 MHz, 40 MHz, 24.000 dBm)

Customized settings.

Table 67: Result

DUT Frequency	Frequency	PSD	Limit Max	Result
MHz	MHz	dBm	dBm	
5795.000000	5813.375000	5.627	30.0	PASS

Table 68: Ports

Port	State
1	used
2	used
3	used
4	used

Power Spectral Density

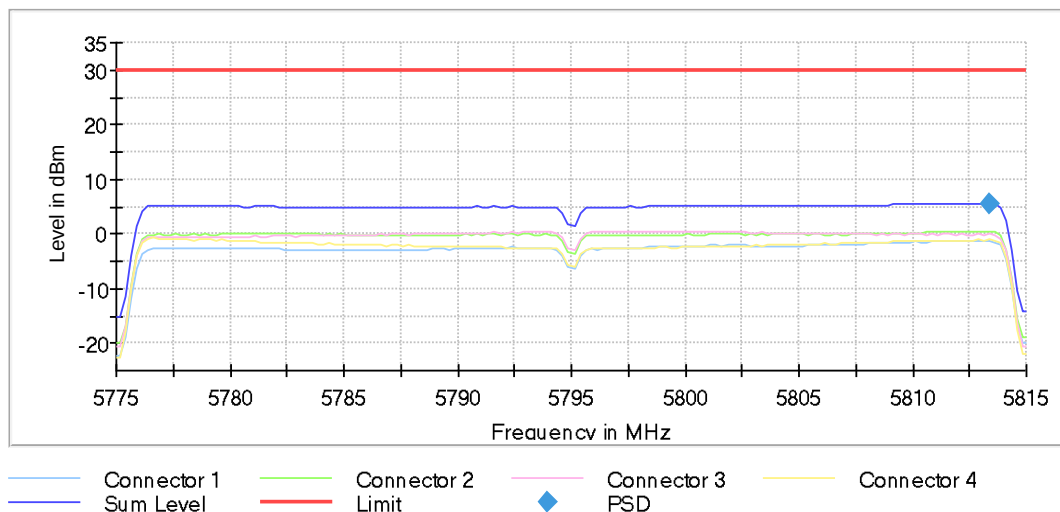


Figure 37: Power Spectral Density

Table 69: Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.77500 GHz	5.77500 GHz
Stop Frequency	5.81500 GHz	5.81500 GHz
Span	40.000 MHz	40.000 MHz
RBW	500.000 kHz	<= 500.000 kHz
VBW	2.000 MHz	>= 1.500 MHz
SweepPoints	160	~ 160
SweepTime	3.200 ms	3.200 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	Sweep	AUTO
Preamplifier	off	off

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

Customized settings.

Table 70: 6 dB Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Band Edge Right	Max Level	Result
MHz	MHz	MHz	MHz	MHz	MHz	dBm	
5795.000000	38.350000	0.500000	---	5775.775000	5814.125000	-0.2	PASS

6 dB Bandwidth

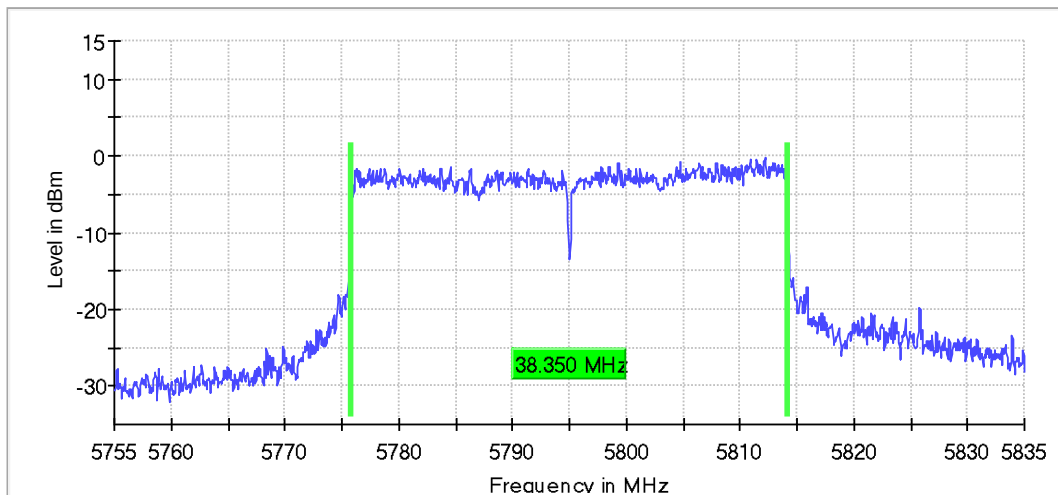
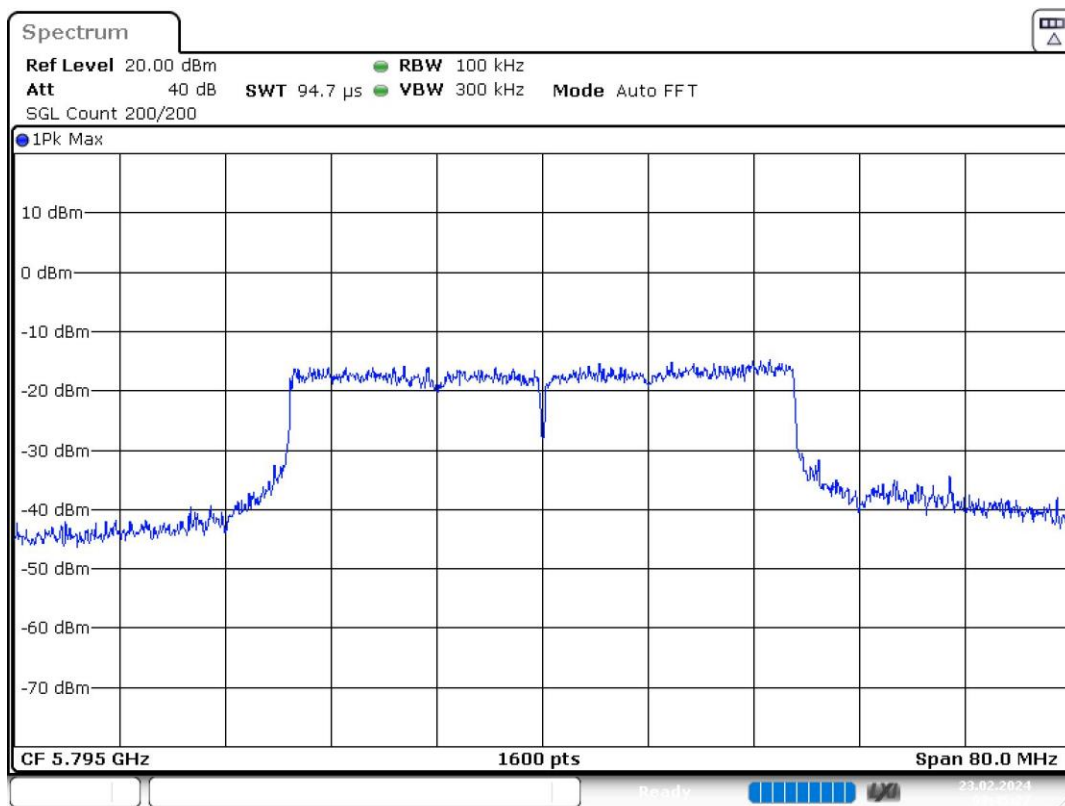


Figure 38: 6 dB Bandwidth



Date: 23.FEB.2024 03:45:27

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

Customized settings.

Table 71: 99 % Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Band Edge Right	Result
MHz	MHz	MHz	MHz	MHz	MHz	
5795.000000	39.000000	---	---	5775.750000	5814.750000	PASS

99 % Bandwidth

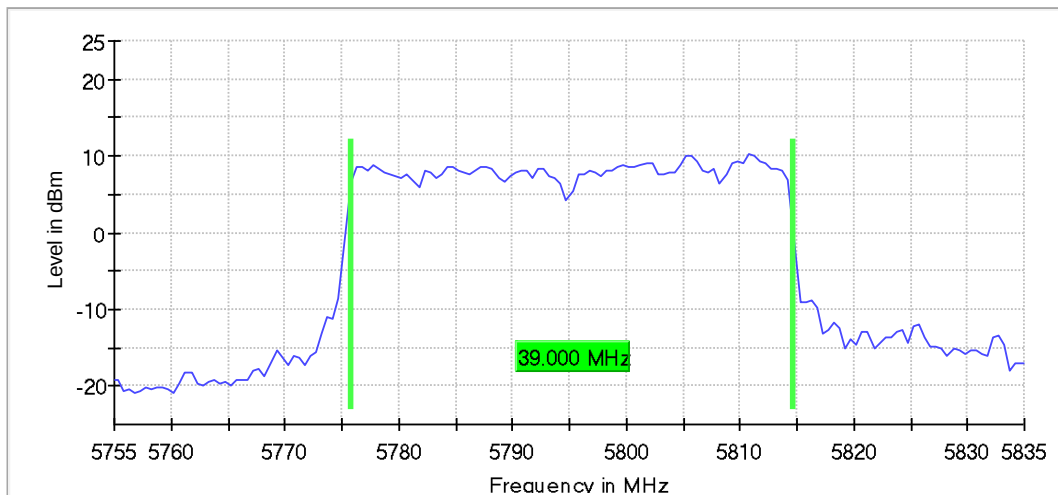
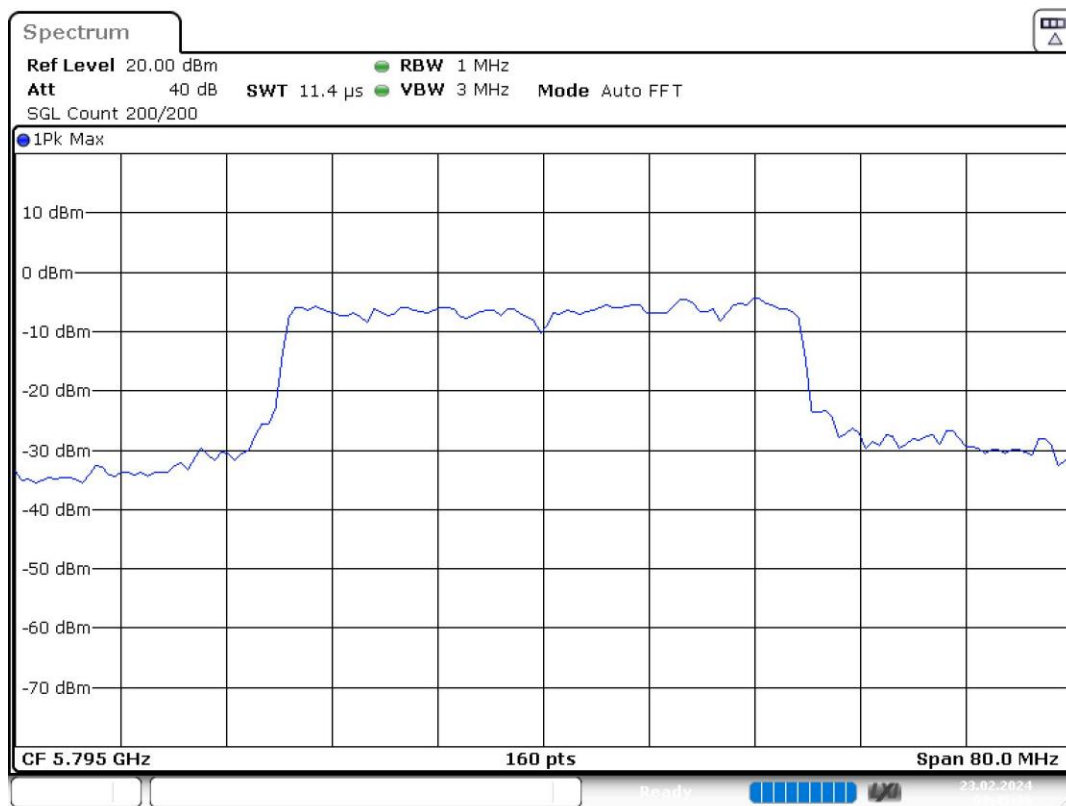


Figure 39: 99 % Bandwidth



Date: 23.FEB.2024 03:45:36

Table 72: Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.75500 GHz	5.75500 GHz
Stop Frequency	5.83500 GHz	5.83500 GHz
Span	80.000 MHz	80.000 MHz
RBW	1.000 MHz	≥ 1.000 MHz
VBW	3.000 MHz	≥ 3.000 MHz
SweepPoints	160	~ 160
Sweptime	11.438 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

2.31 Tx Spurious Emission (5795 MHz, 40 MHz, 24.000 dBm)

Customized settings.

Table 73: Result

DUT Frequency	Result
MHz	
5795.000000	PASS

Table 74: Final measurements

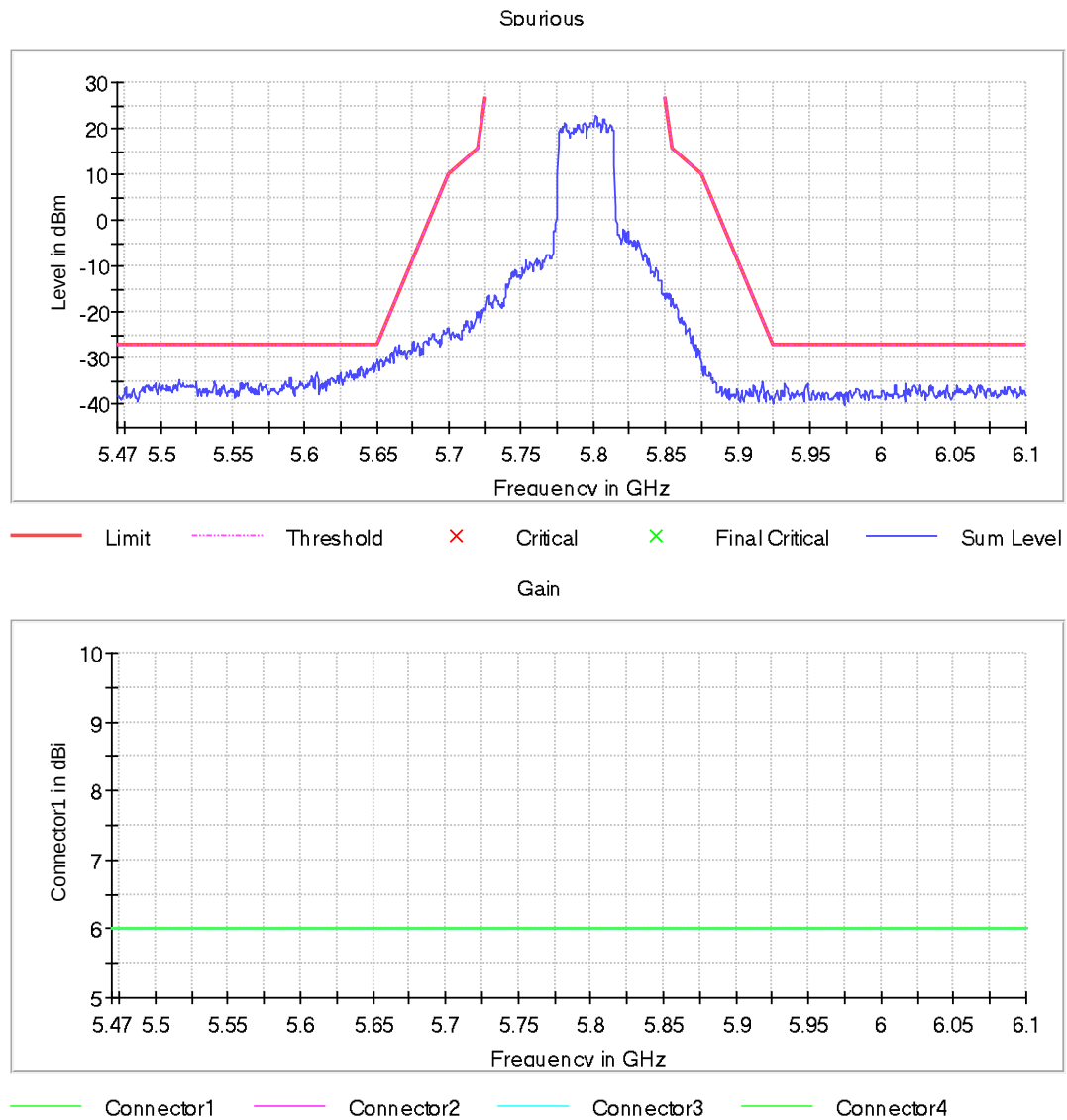
Frequency	Level Pre Measurement	level	Limit	Margin	Result
MHz	dBm	dBm	dBm	dB	
---	---	---	---	---	---

Table 75: Pre Measurements

Frequency	Level	Margin	Limit
MHz	dBm	dB	dBm
5650.250000	-30.0	3.2	-26.8
5649.750000	-30.5	3.5	-27.0
5650.750000	-30.3	3.9	-26.4
5647.250000	-30.9	3.9	-27.0
5649.250000	-31.5	4.5	-27.0
5647.750000	-31.6	4.6	-27.0
5648.750000	-31.7	4.7	-27.0
5638.750000	-31.9	4.9	-27.0
5646.750000	-31.9	4.9	-27.0
5639.250000	-32.1	5.1	-27.0
5645.250000	-32.2	5.2	-27.0
5637.250000	-32.3	5.3	-27.0
5644.750000	-32.3	5.3	-27.0
5646.250000	-32.4	5.4	-27.0
5642.250000	-32.4	5.4	-27.0

Table 76: Measurement Settings

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



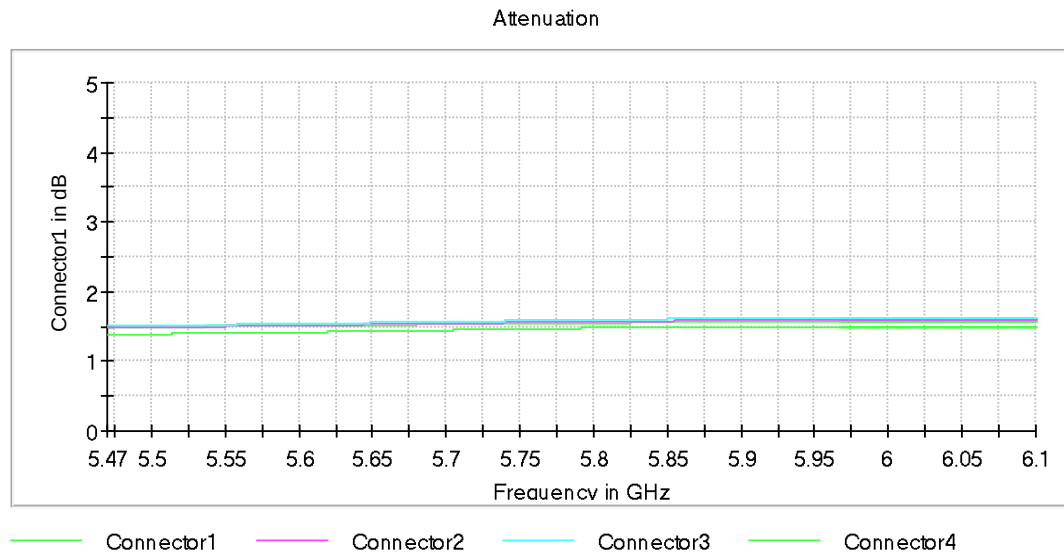


Figure 40: Attenuation

Figure 41: Gain

Figure 42: Spurious

Table 77: 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	-10.000 dBm	-10.000 dBm
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamplifier	off	off

2.32 Emission Bandwidth 26 dB (5775 MHz, 80 MHz, 24.000 dBm)

Customized settings.

Table 78: 26 dB Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Band Edge Right	Max Level	Result
MHz	MHz	MHz	MHz	MHz	MHz	dBm	
5775.000000	102.500000	---	---	5729.250000	5831.750000	6.4	PASS

26 dB Bandwidth

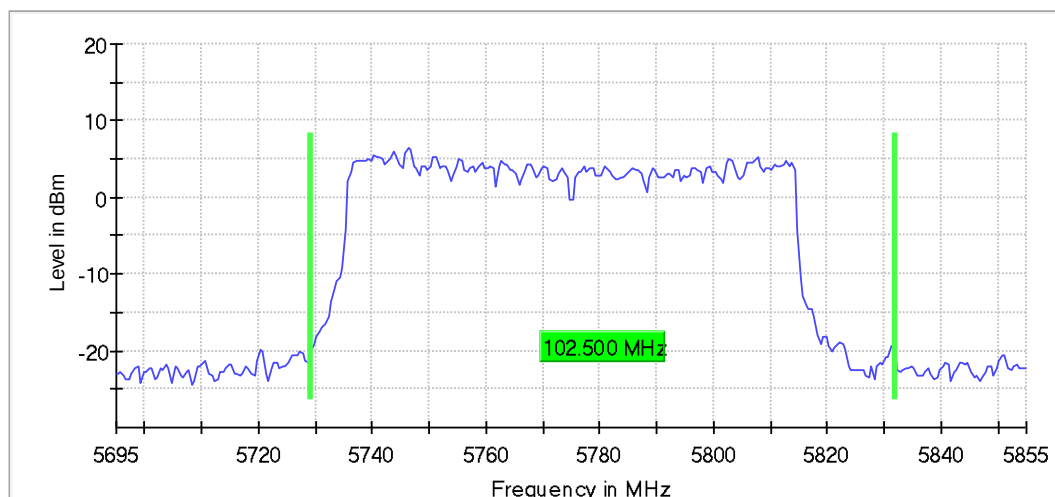
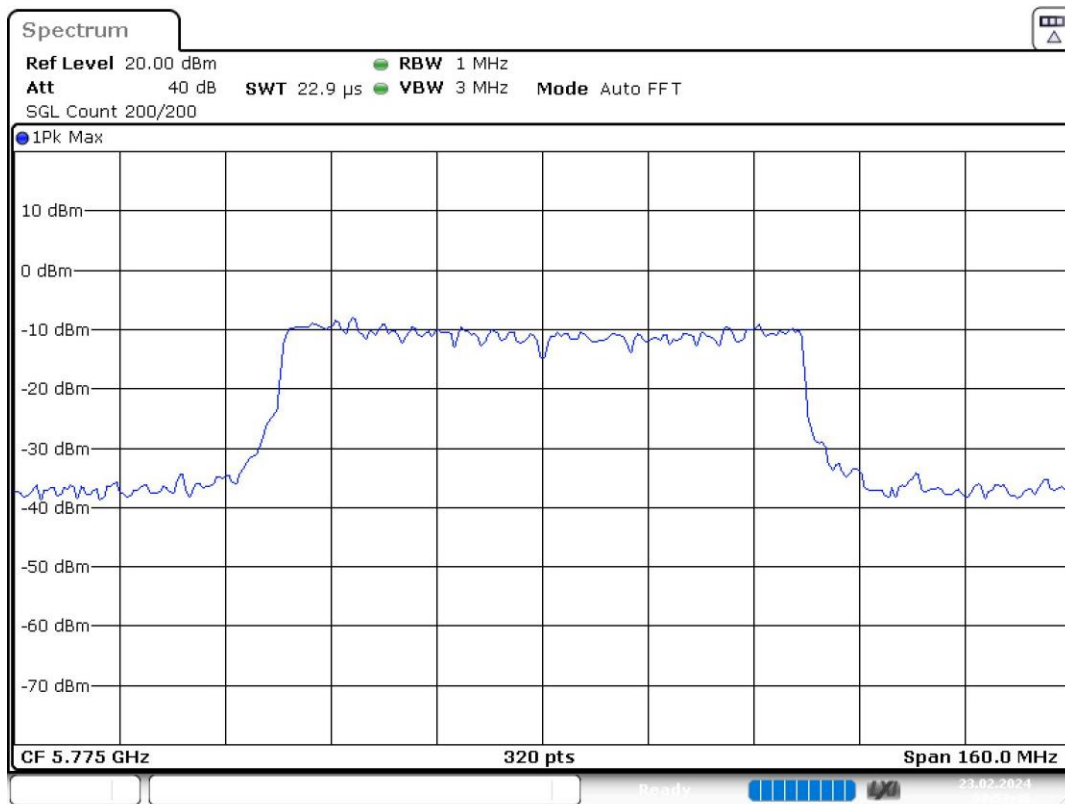


Figure 43: 26 dB Bandwidth



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2.33 Power Spectral Density (5775 MHz, 80 MHz, 24.000 dBm)

Customized settings.

Table 79: Result

DUT Frequency	Frequency	PSD	Limit Max	Result
MHz	MHz	dBm	dBm	
5775.000000	5737.625000	2.060	30.0	PASS

Table 80: Ports

Port	State
1	used
2	used
3	used
4	used

Power Spectral Density

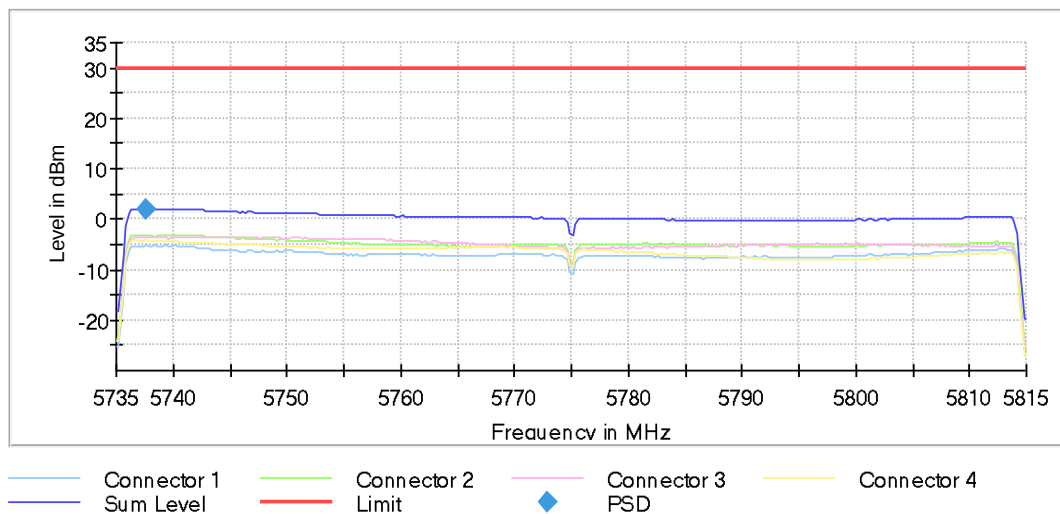


Figure 44: Power Spectral Density

Table 81: Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.73500 GHz	5.73500 GHz
Stop Frequency	5.81500 GHz	5.81500 GHz
Span	80.000 MHz	80.000 MHz
RBW	500.000 kHz	<= 500.000 kHz
VBW	2.000 MHz	>= 1.500 MHz
SweepPoints	320	~ 320
SweepTime	6.400 ms	6.400 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	Sweep	AUTO
Preamplifier	off	off

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

Customized settings.

Table 82: 6 dB Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Band Edge Right	Max Level	Result
MHz	MHz	MHz	MHz	MHz	MHz	dBm	
5775.000000	78.150000	0.500000	---	5735.925000	5814.075000	-1.5	PASS

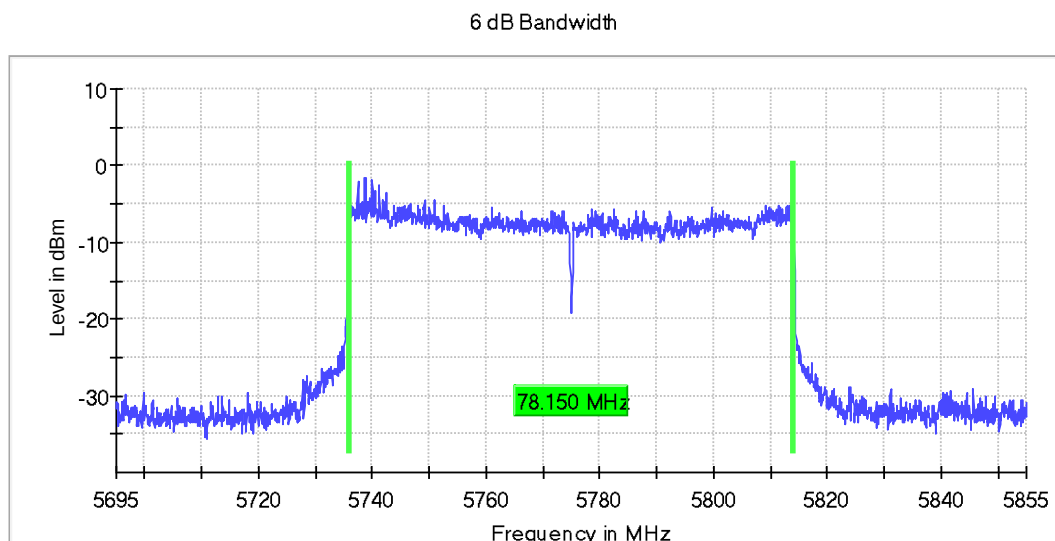
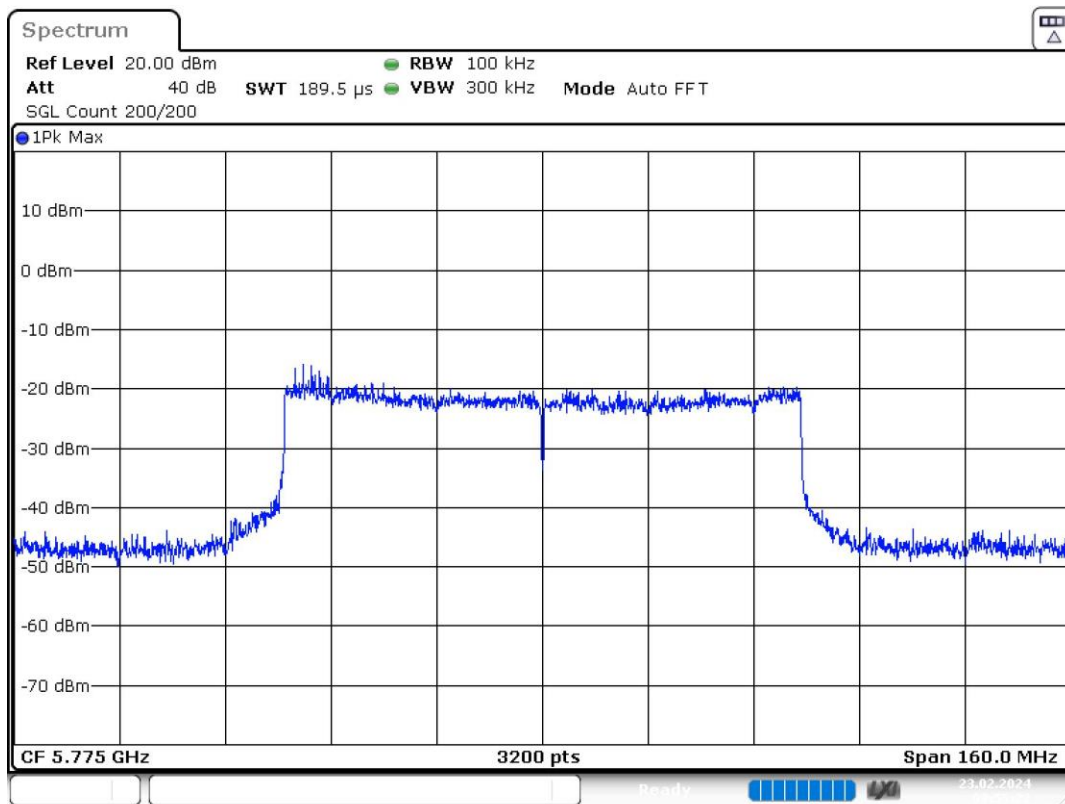


Figure 45: 6 dB Bandwidth



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

Customized settings.

Table 83: 99 % Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Band Edge Right	Result
MHz	MHz	MHz	MHz	MHz	MHz	
5775.000000	79.000000	---	---	5735.500000	5814.500000	PASS

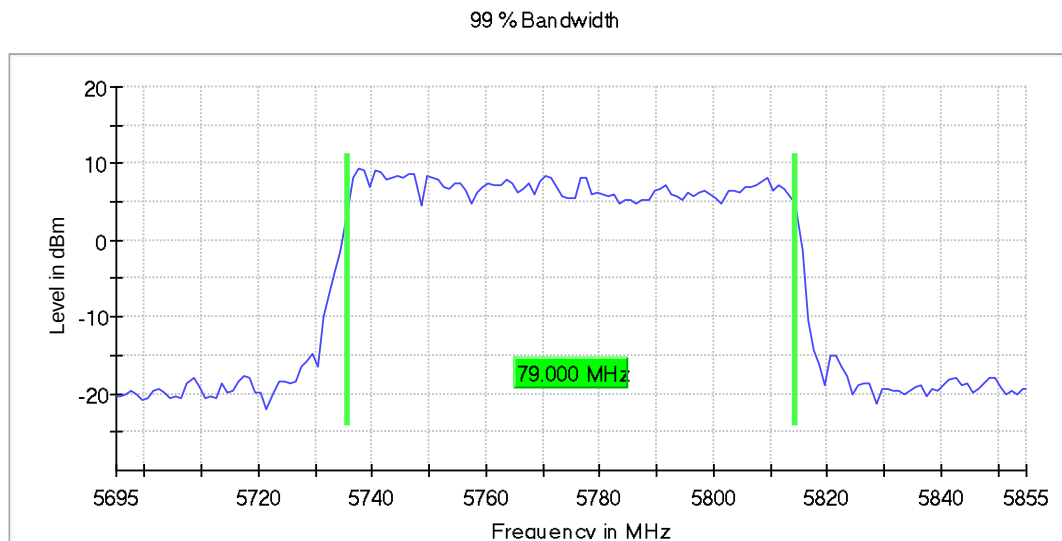
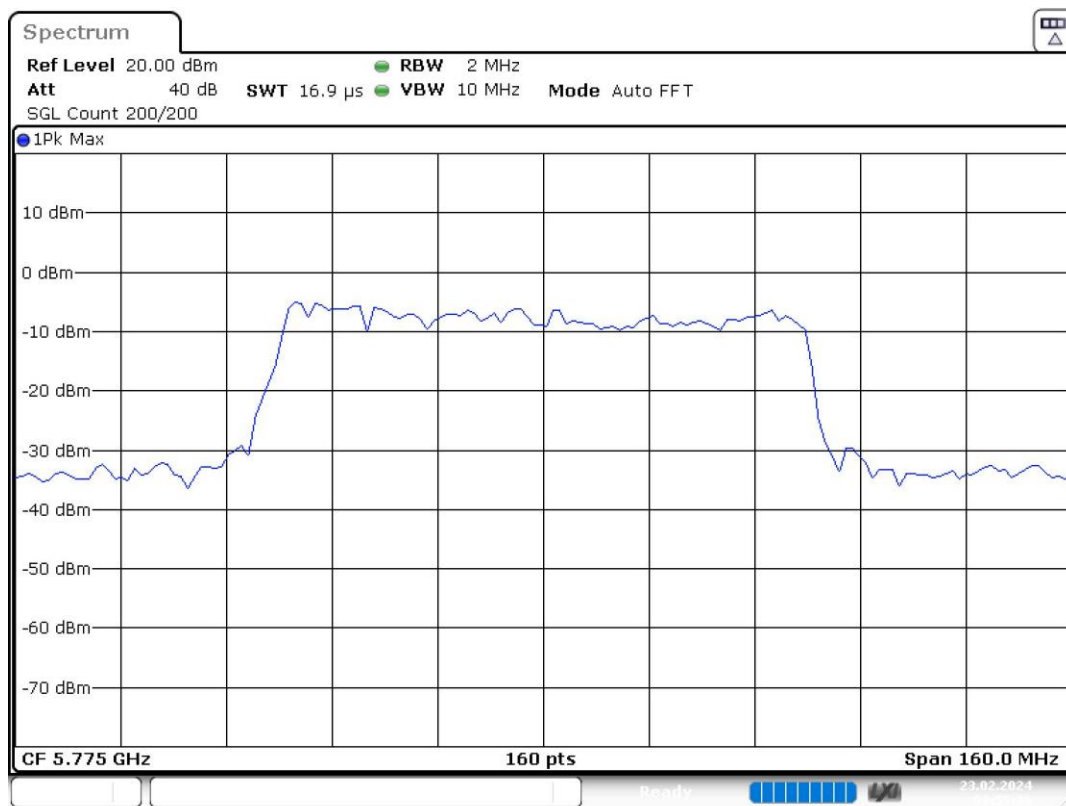


Figure 46: 99 % Bandwidth



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Table 84: Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.69500 GHz	5.69500 GHz
Stop Frequency	5.85500 GHz	5.85500 GHz
Span	160.000 MHz	160.000 MHz
RBW	2.000 MHz	≥ 2.000 MHz
VBW	10.000 MHz	≥ 6.000 MHz
SweepPoints	160	~ 160
Sweptime	16.875 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

2.36 Tx Spurious Emission (5775 MHz, 80 MHz, 24.000 dBm)

Customized settings.

Table 85: Result

DUT Frequency	Result
MHz	
5775.000000	PASS

Table 86: Final measurements

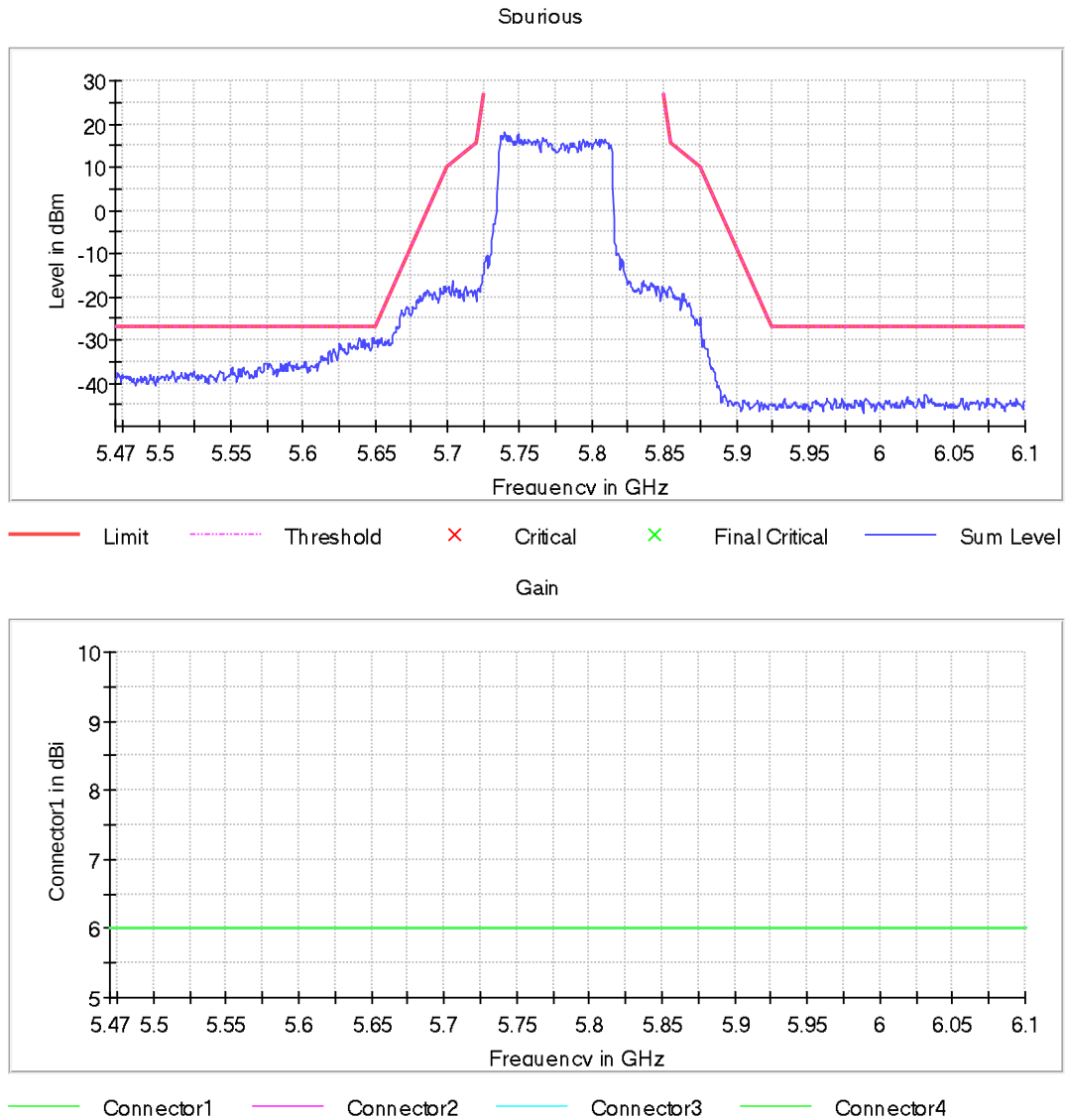
Frequency	Level Pre Measurement	level	Limit	Margin	Result
MHz	dBm	dBm	dBm	dB	
---	---	---	---	---	---

Table 87: Pre Measurements

Frequency	Level	Margin	Limit
MHz	dBm	dB	dBm
5648.750000	-29.5	2.5	-27.0
5638.750000	-29.6	2.6	-27.0
5648.250000	-29.8	2.8	-27.0
5639.250000	-29.8	2.8	-27.0
5641.750000	-29.9	2.9	-27.0
5642.250000	-29.9	2.9	-27.0
5649.750000	-30.3	3.3	-27.0
5639.750000	-30.4	3.4	-27.0
5632.250000	-30.8	3.8	-27.0
5649.250000	-30.8	3.8	-27.0
5642.750000	-30.8	3.8	-27.0
5645.250000	-30.8	3.8	-27.0
5644.250000	-30.9	3.9	-27.0
5625.250000	-31.0	4.0	-27.0
5643.750000	-31.0	4.0	-27.0

Table 88: Measurement Settings

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



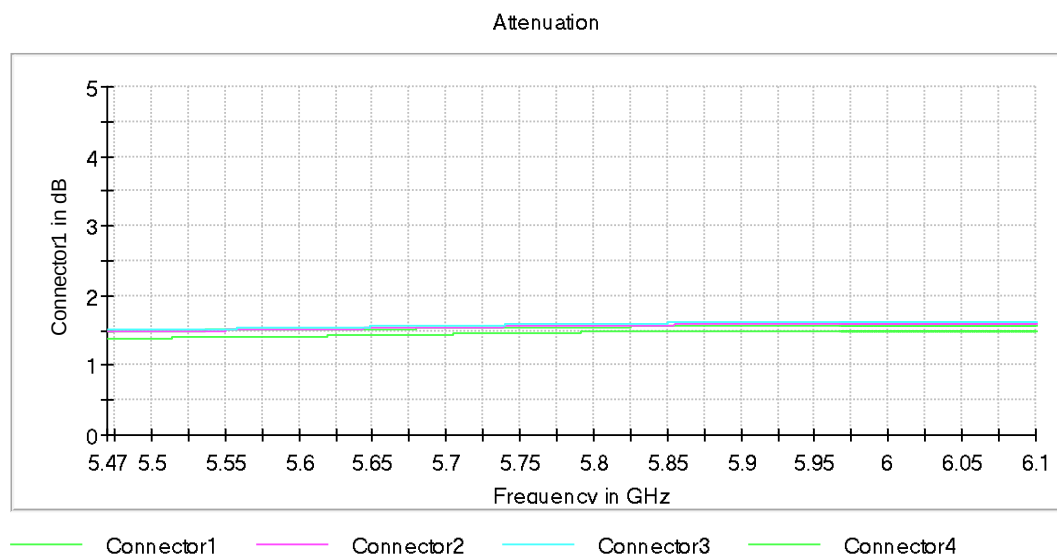


Figure 47: Attenuation

Figure 48: Gain

Figure 49: Spurious

Table 89: 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	-10.000 dBm	-10.000 dBm
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamplifier	off	off

-- End of Report --