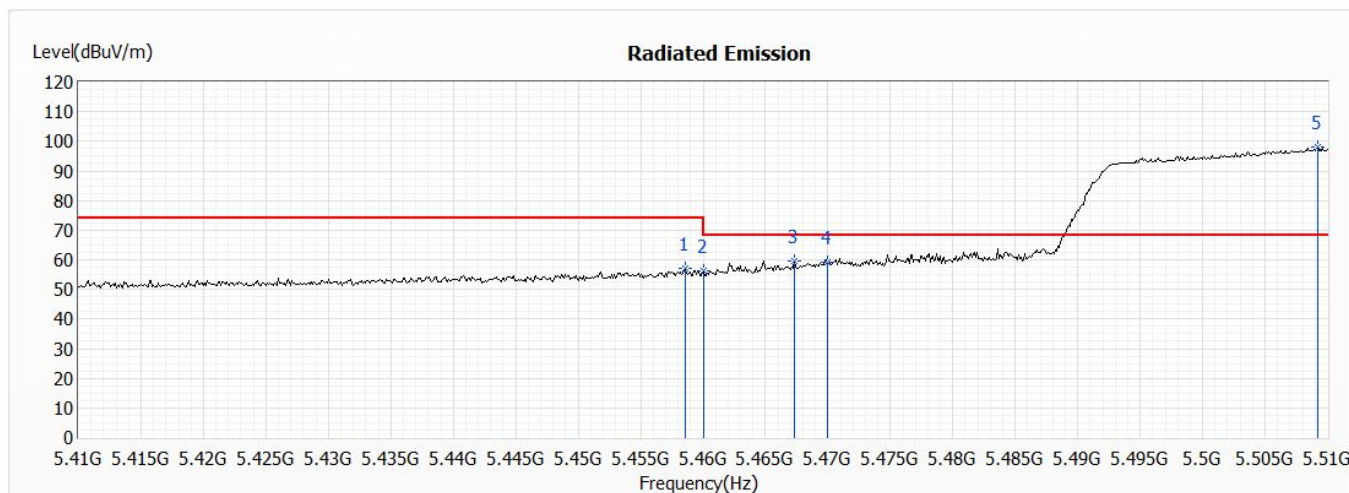


Product : WCDMA/LTE/5G Mobile Phone
 Test Item : Band Edge Data
 Test Mode : Mode 4: Transmit (802.11ac-80BW 32.5Mbps) (5530MHz)
 Test Date : 2021/06/04

Vertical



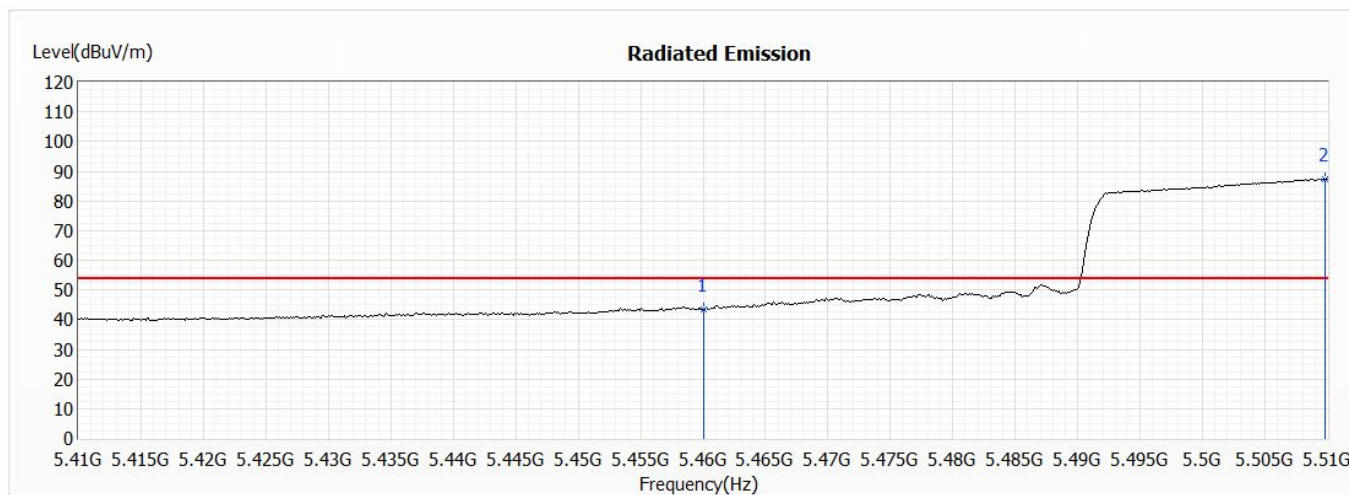
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	5458.600	56.90	74.00	-17.10	37.84	19.06	PK
2	5460.000	56.14	74.00	-17.86	37.07	19.07	PK
3	5467.300	59.62	68.22	-8.60	40.54	19.08	PK
4	5470.000	58.97	68.22	-9.25	39.88	19.09	PK
! 5	5509.200	97.94	--	--	78.75	19.19	PK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.

Product : WCDMA/LTE/5G Mobile Phone
 Test Item : Band Edge Data
 Test Mode : Mode 4: Transmit (802.11ac-80BW 32.5Mbps) (5530MHz)
 Test Date : 2021/06/04

Vertical



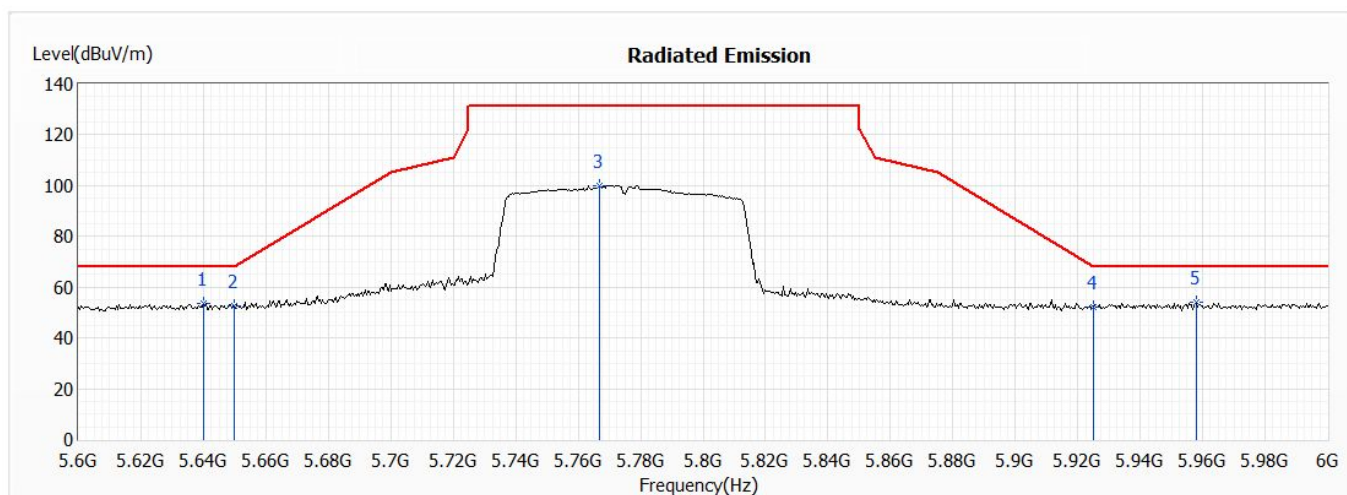
	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	5460.000	43.46	54.00	-10.54	24.39	19.07	AV
! 2	5509.800	87.45	--	--	68.26	19.19	AV

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.

Product : WCDMA/LTE/5G Mobile Phone
 Test Item : Band Edge Data
 Test Mode : Mode 4: Transmit (802.11ac-80BW 32.5Mbps) (5775MHz)
 Test Date : 2021/06/03

Horizontal



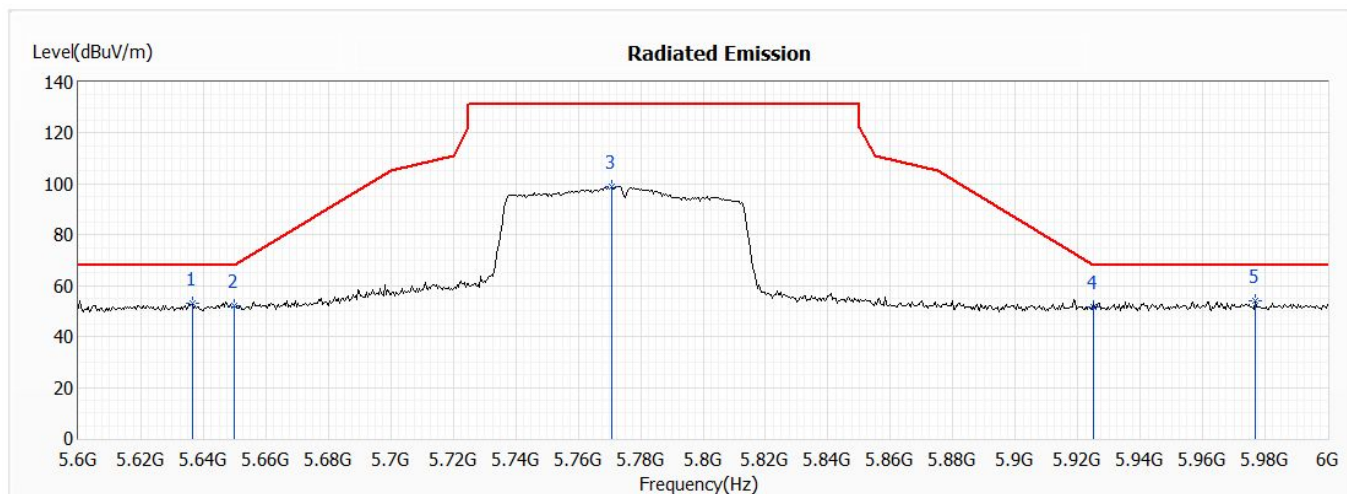
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	5640.000	53.62	68.22	-14.60	34.42	19.20	PK
2	5650.000	52.79	68.22	-15.43	33.63	19.16	PK
3	5766.800	100.16	131.20	-31.04	80.51	19.65	PK
4	5925.000	52.20	68.22	-16.02	32.00	20.20	PK
* 5	5958.000	53.90	68.22	-14.32	33.65	20.25	PK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.

Product : WCDMA/LTE/5G Mobile Phone
 Test Item : Band Edge Data
 Test Mode : Mode 4: Transmit (802.11ac-80BW 32.5Mbps) (5775MHz)
 Test Date : 2021/06/04

Vertical



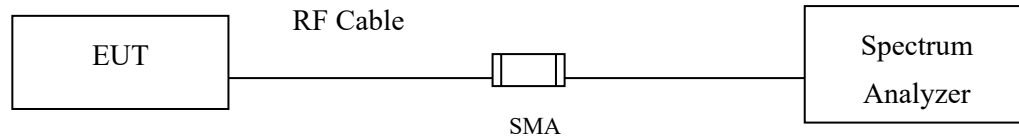
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	5636.400	53.24	68.22	-14.98	34.02	19.22	PK
2	5650.000	52.13	68.22	-16.09	32.97	19.16	PK
3	5770.800	99.12	131.20	-32.08	79.45	19.67	PK
4	5925.000	51.66	68.22	-16.56	31.46	20.20	PK
* 5	5976.800	54.09	68.22	-14.13	33.80	20.29	PK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.

7. Occupied Bandwidth

7.1. Test Setup



7.2. Limits

For the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz

7.3. Test Procedure

The EUT was setup to ANSI C63.10, 2013; tested to UNII test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

7.4. Test Result of Occupied Bandwidth

Product : WCDMA/LTE/5G Mobile Phone
 Test Item : Occupied Bandwidth Data
 Test Mode : Mode 1: Transmit (802.11a-6Mbps)
 Test Date : 2021/06/07

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745	15400	>500	Pass
157	5785	15200	>500	Pass
165	5825	15200	>500	Pass

Figure Channel 149:

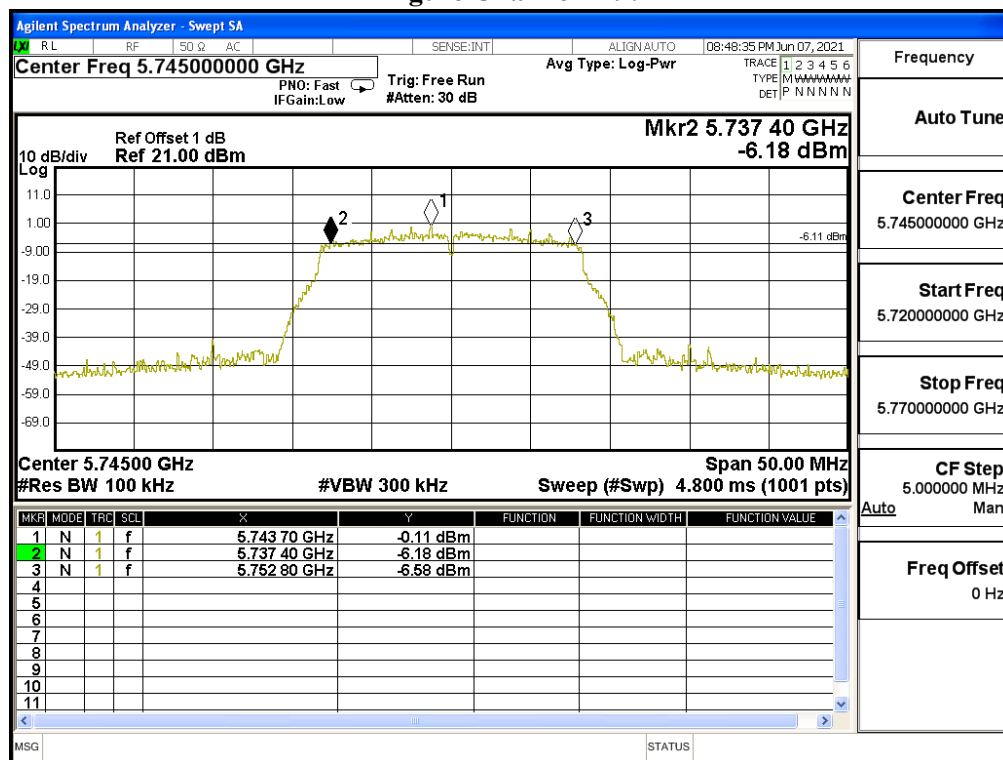


Figure Channel 157:

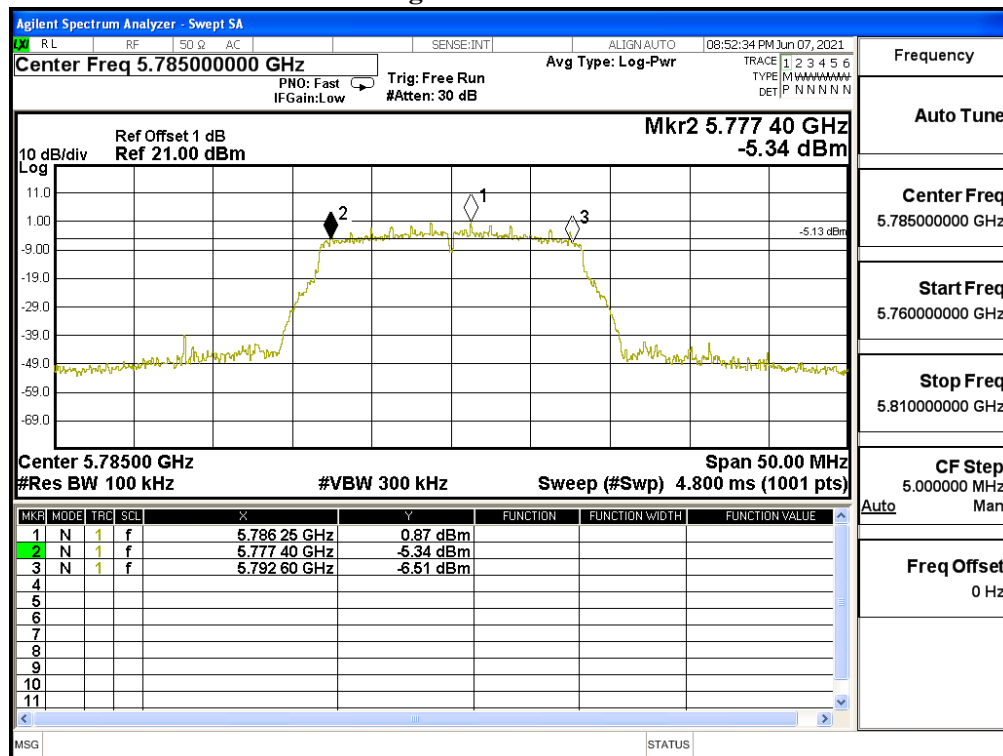
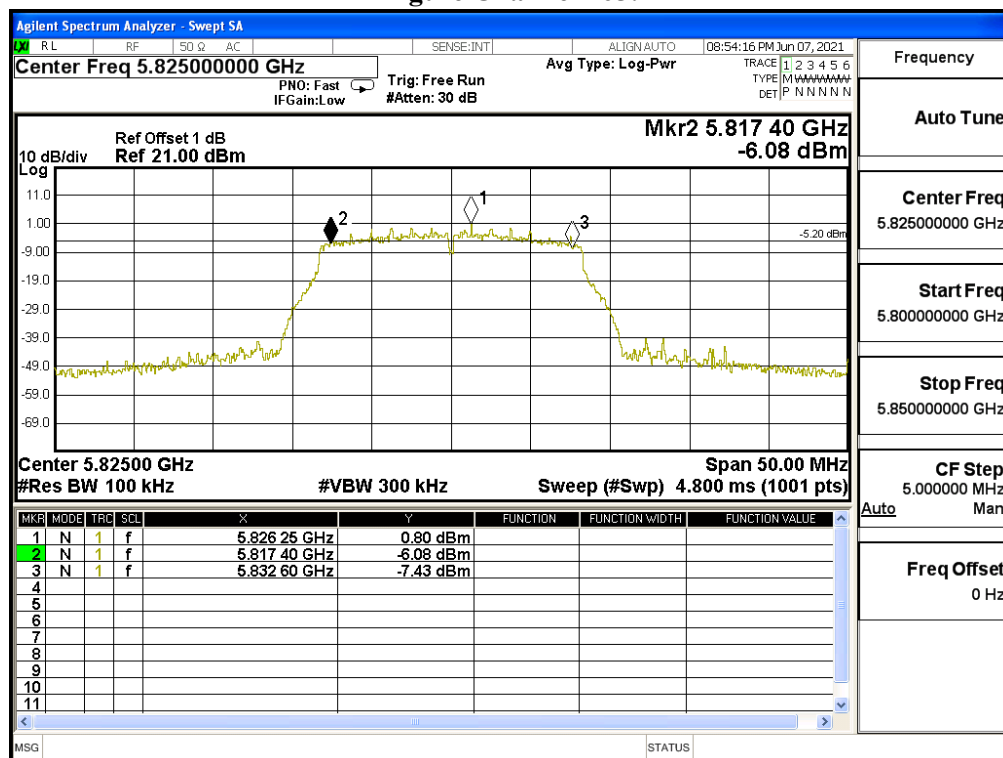


Figure Channel 165:



Product : WCDMA/LTE/5G Mobile Phone
 Test Item : Occupied Bandwidth Data
 Test Mode : Mode 2: Transmit (802.11ac-20BW 7.2Mbps)
 Test Date : 2021/06/07

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745	15200	>500	Pass
157	5785	15200	>500	Pass
165	5825	15150	>500	Pass

Figure Channel 149:

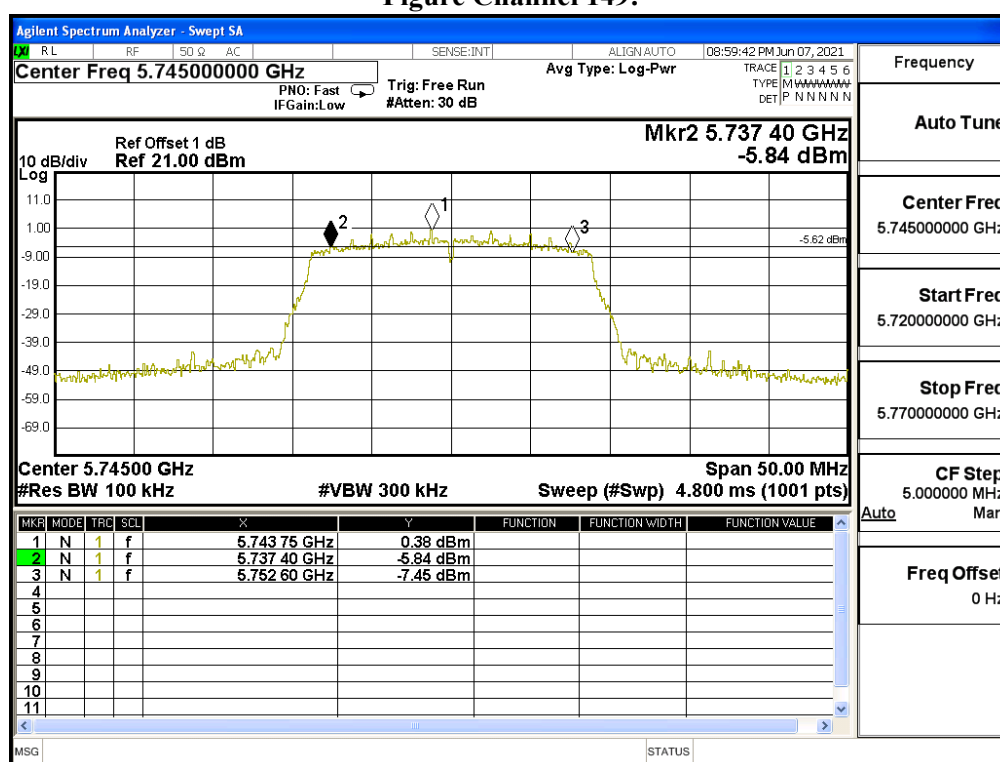


Figure Channel 157:

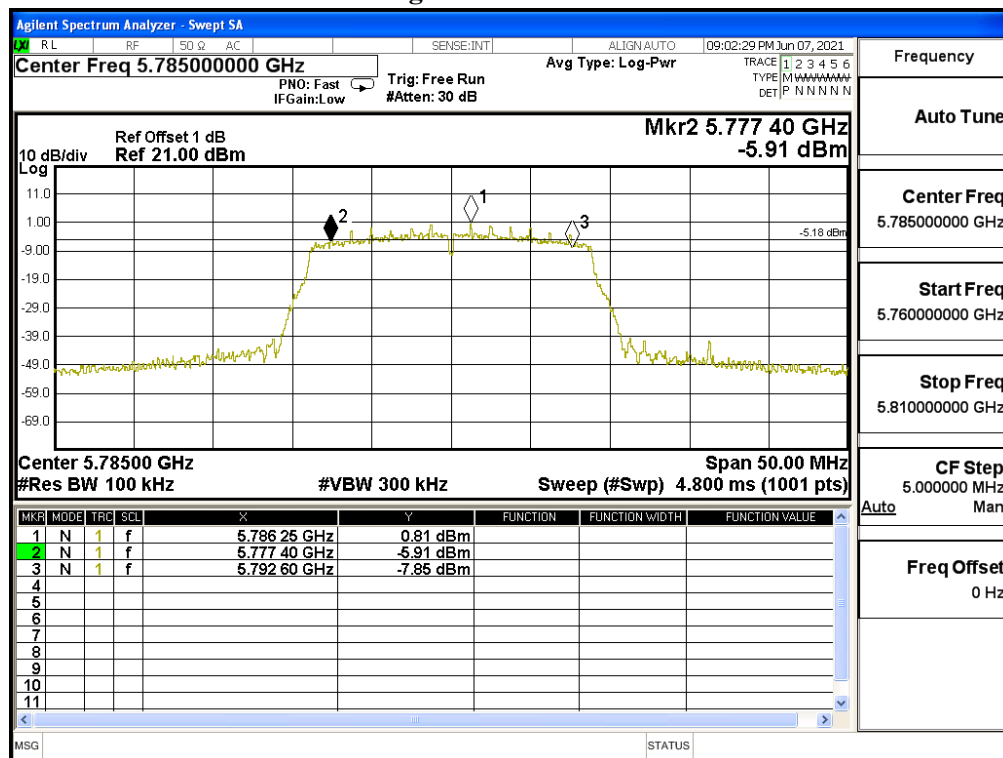
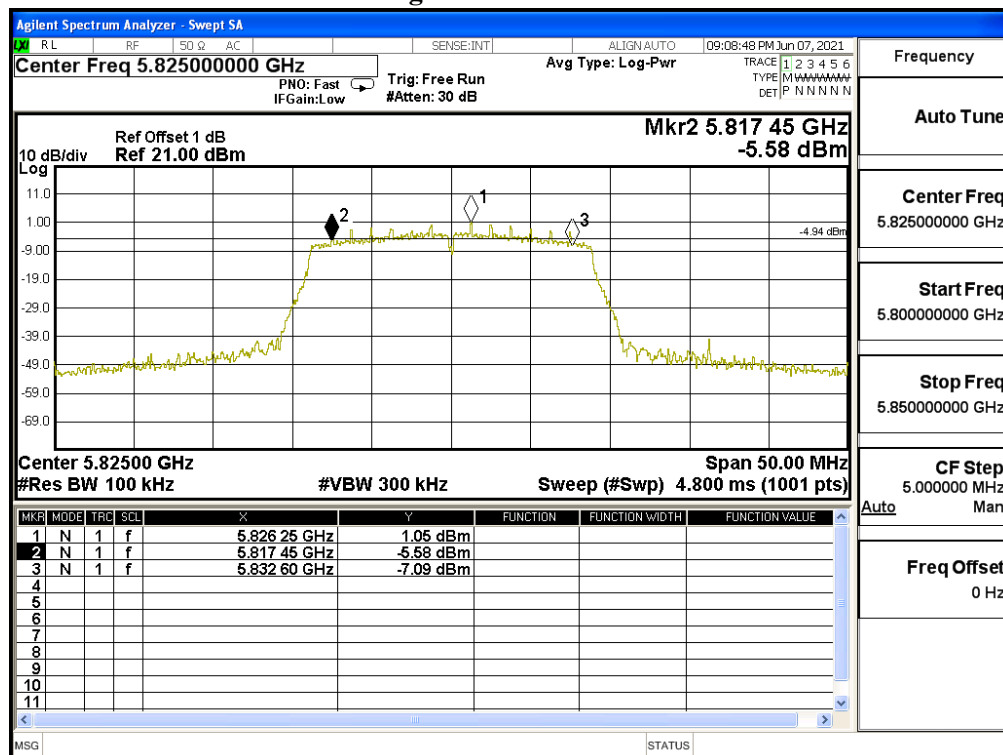


Figure Channel 165:



Product : WCDMA/LTE/5G Mobile Phone
 Test Item : Occupied Bandwidth Data
 Test Mode : Mode 3: Transmit (802.11ac-40BW 15Mbps)
 Test Date : 2021/06/07

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
151	5755	35300	>500	Pass
159	5795	35300	>500	Pass

Figure Channel 151:

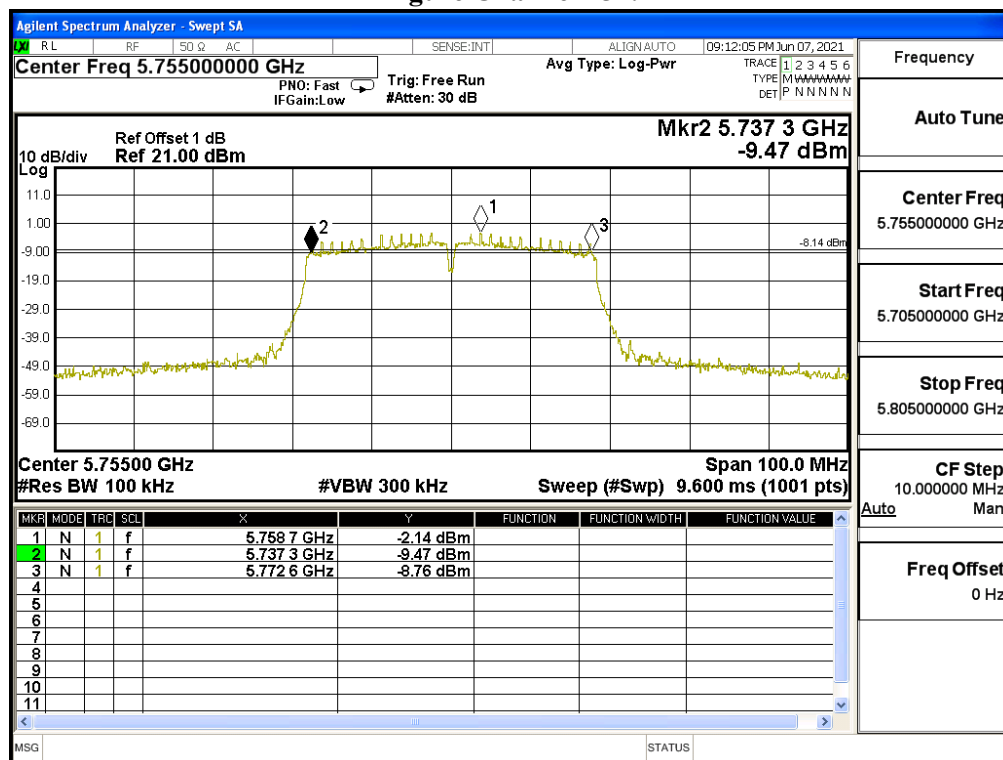
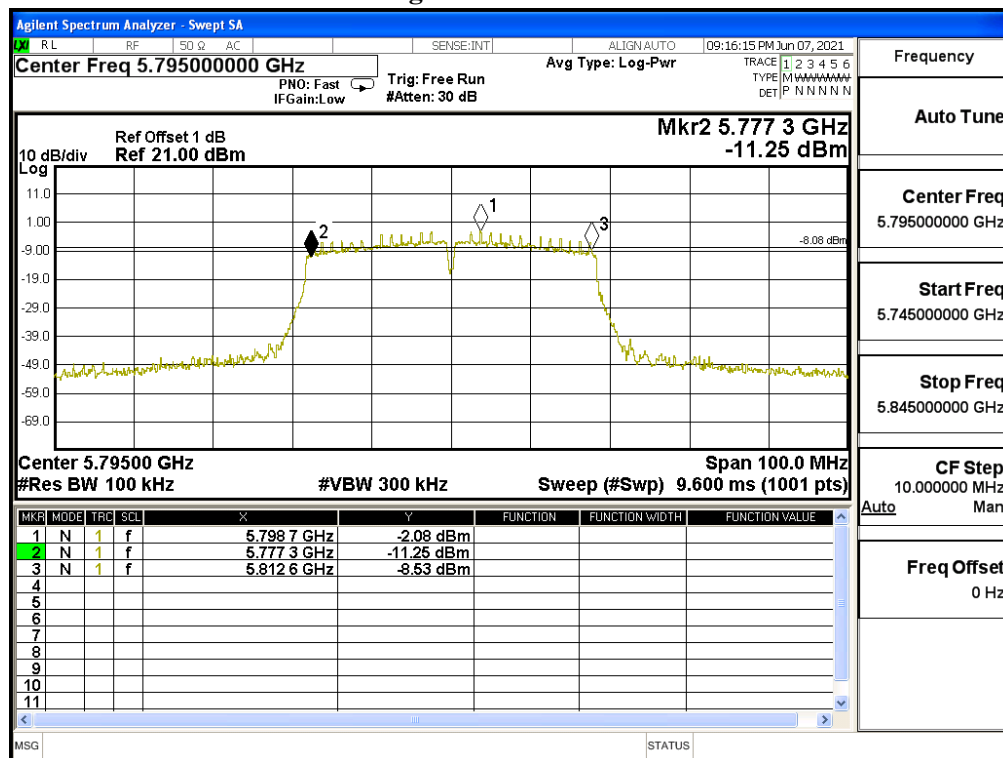


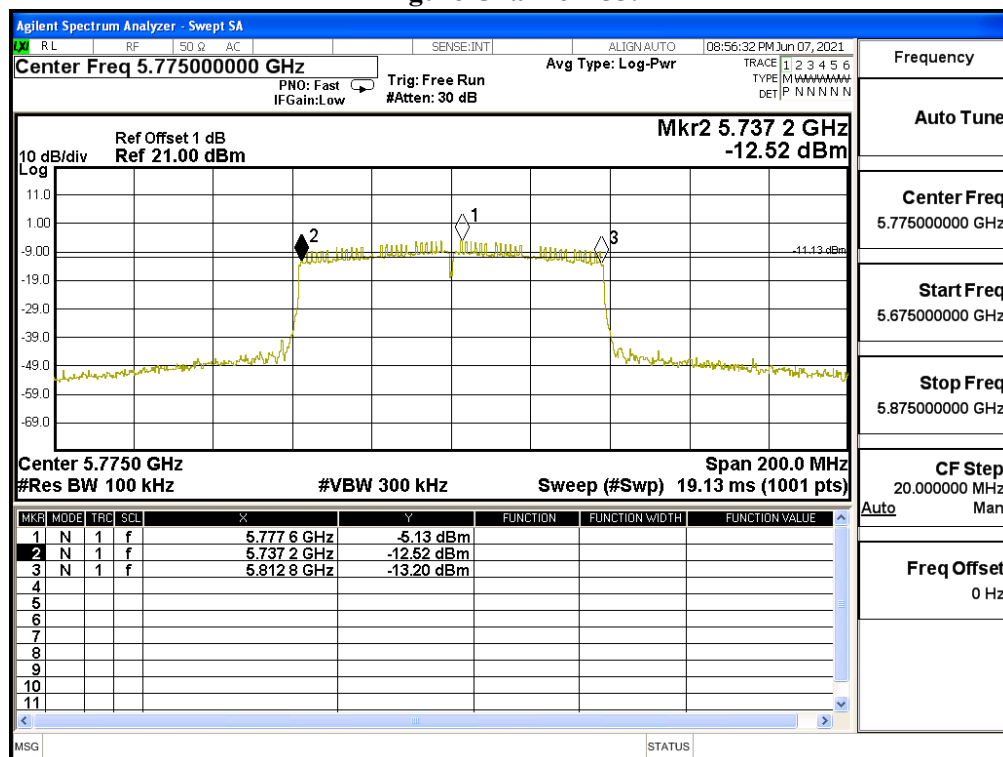
Figure Channel 159:



Product : WCDMA/LTE/5G Mobile Phone
 Test Item : Occupied Bandwidth Data
 Test Mode : Mode 4: Transmit (802.11ac-80BW 32.5Mbps)
 Test Date : 2021/06/07

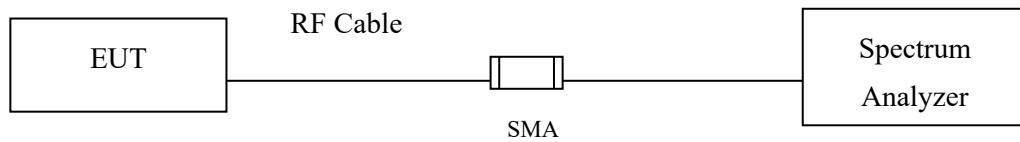
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
155	5775	75600	>500	Pass

Figure Channel 155:



8. Duty Cycle

8.1. Test Setup



8.2. Test Procedure

The EUT was setup according to ANSI C63.10 2013; tested according to U-NII test procedure of KDB789033 for compliance to FCC 47CFR 15.407 requirements.

8.3. Test Result of Duty Cycle

Product : WCDMA/LTE/5G Mobile Phone
Test Item : Duty Cycle
Test Mode : Transmit

Duty Cycle Formula:

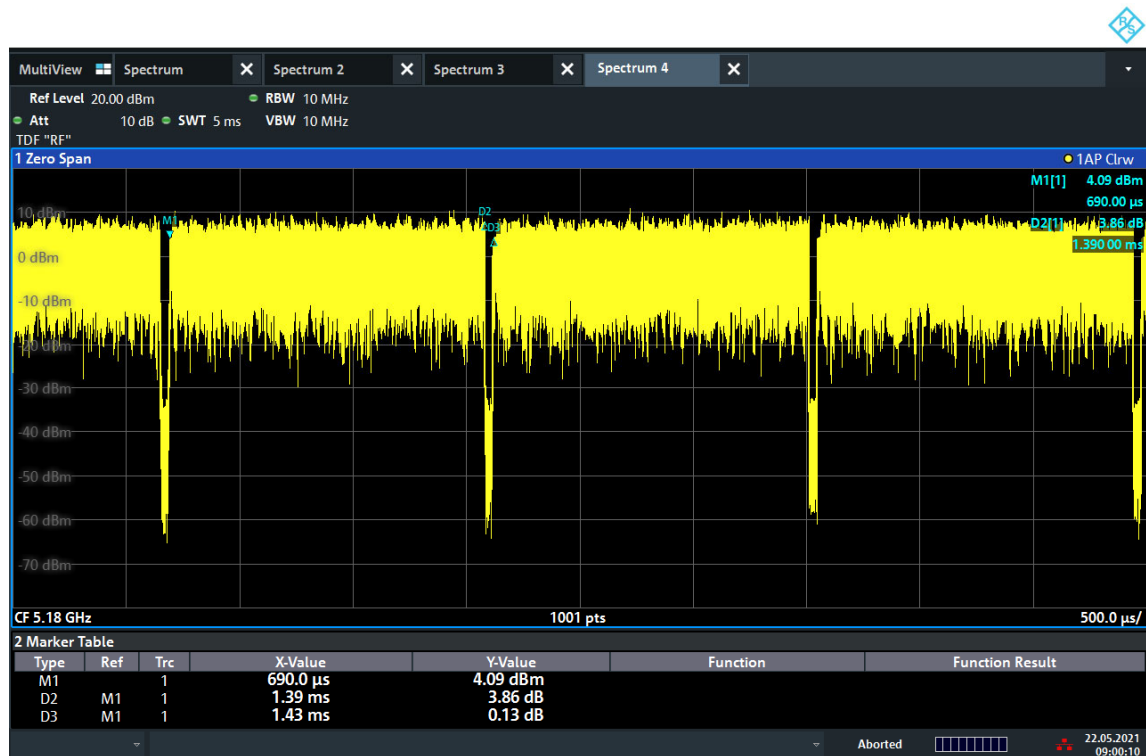
$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff})$

$\text{Duty Factor} = 10 \text{ Log } (1/\text{Duty Cycle})$

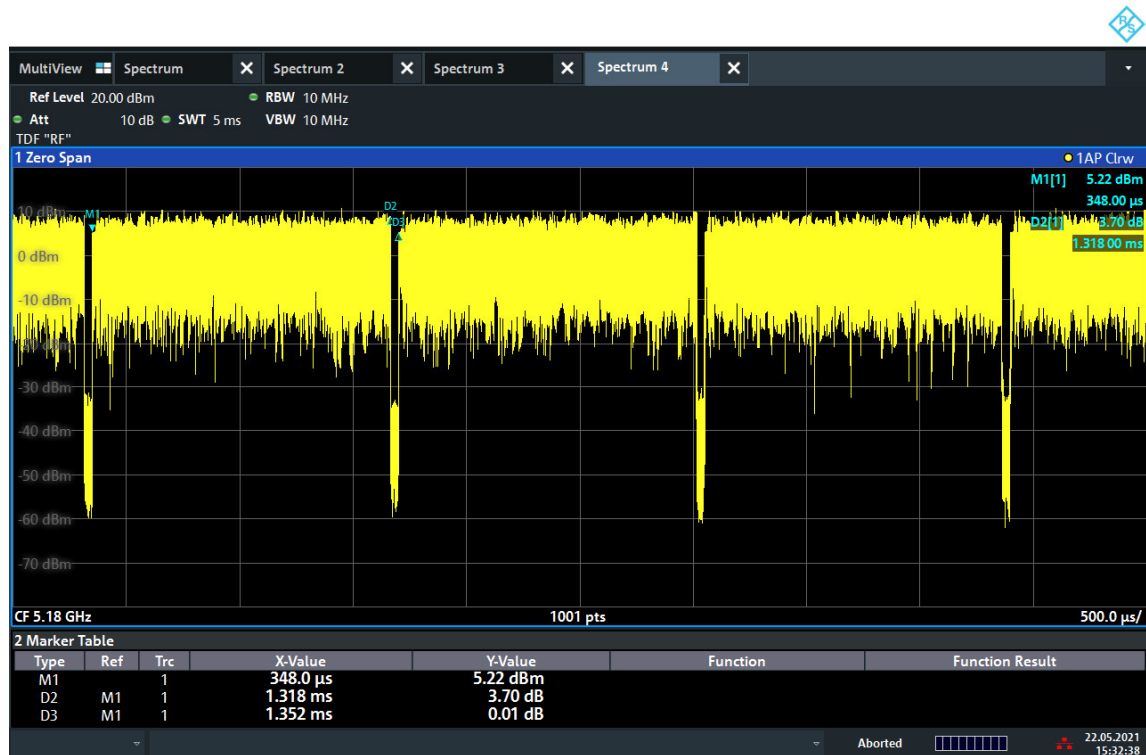
Results:

5GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11a	1.3900	1.4300	97.20	0.12
802.11ac20	1.3180	1.3520	97.49	0.11
802.11ac40	0.6520	0.6880	94.77	0.23
802.11ac80	0.3250	0.3590	90.53	0.43

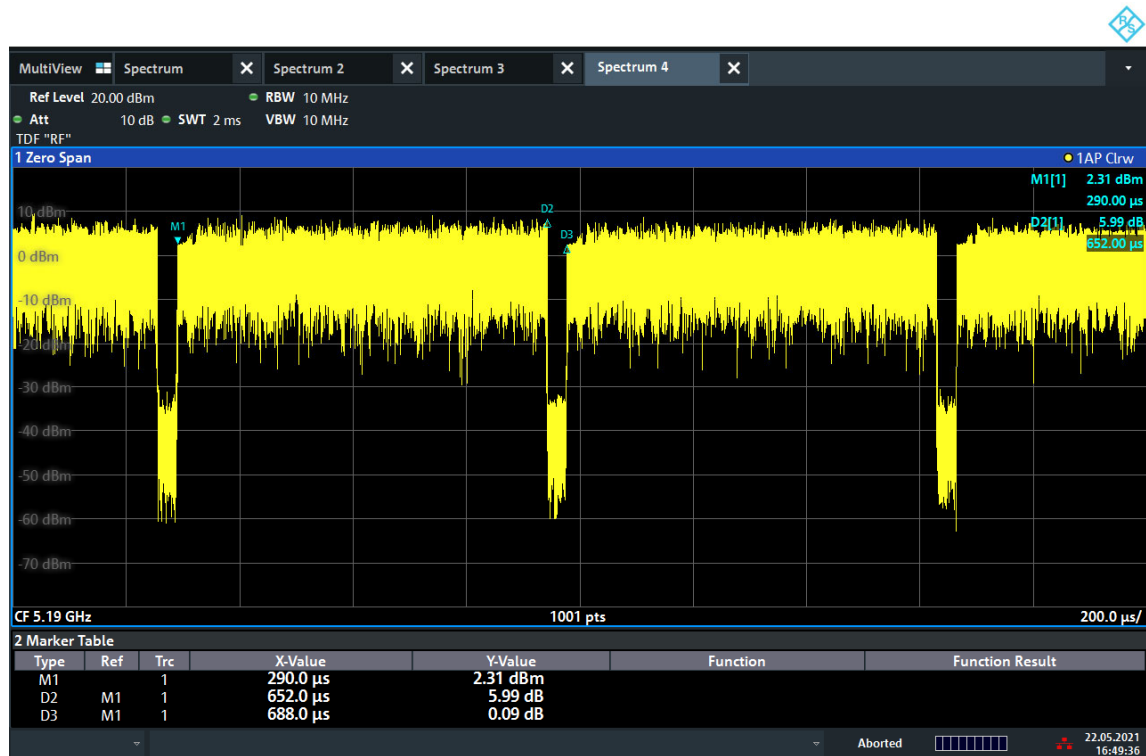
802.11a



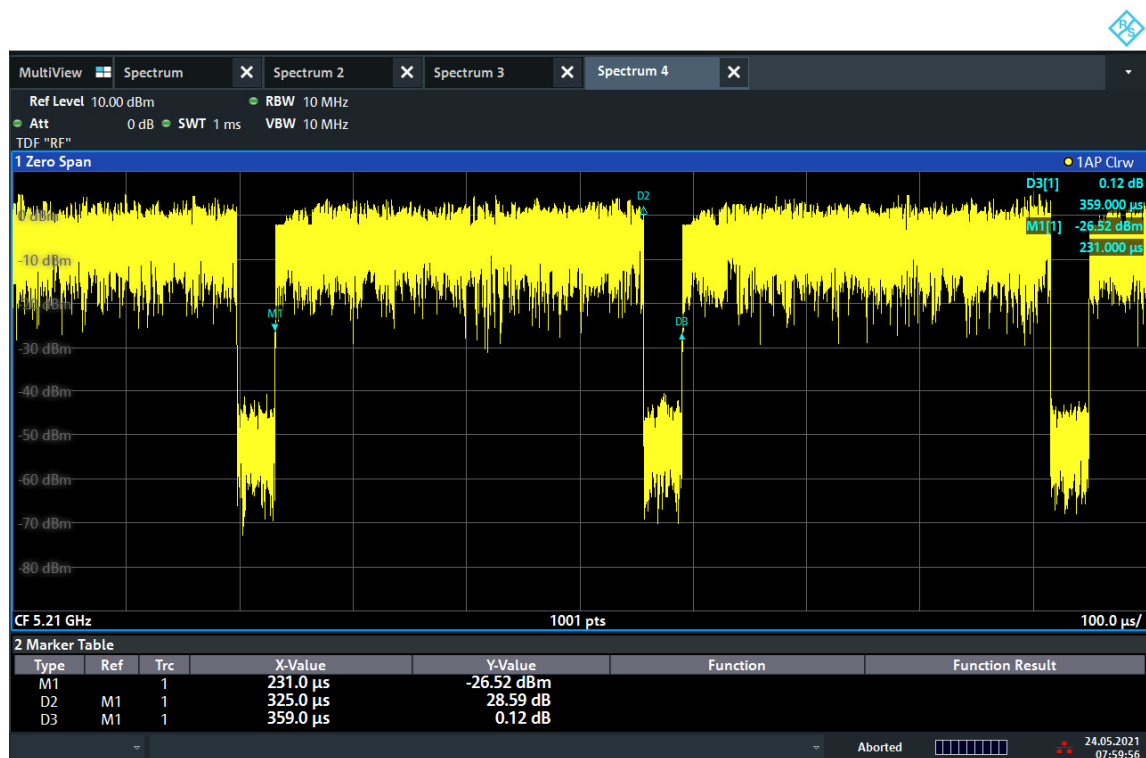
802.11ac20



802.11ac40



802.11ac80



9. EMI Reduction Method During Compliance Testing

No modification was made during testing.