

Product	:	Portable computer
Test Item	:	Harmonic Radiated Emission Data
Test Mode	:	Mode 16 MIMO: Transmit (802.11ax-40BW_34.4Mbps) (2422MHz)
Test Date	:	2020/05/26

# HORIZONTAL



No	Frequency	Emission	Limit	Margin	Reading Level	Correct Factor	Detector
	(MHz)	Level	(dBuV/m)	(dB)	(dBuV)	(dB/m)	Туре
		(dBuV/m)					
1	4844	47.73	74.00	-26.27	59.56	-11.83	РК
* 2	7266	52.41	74.00	-21.59	65.44	-13.03	РК
3	9688	44.51	74.00	-29.49	57.29	-12.78	РК

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Emission Level = Reading Level + Correct Factor.
- 3. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 4. The average measurement was not performed when the peak measured data under the limit of average detection.
- 5. The emission levels of other frequencies are very lower than the limit and not show in test report.



Product	:	Portable computer
Fest Item	:	Harmonic Radiated Emission Data
Fest Mode	:	Mode 16 MIMO: Transmit (802.11ax-40BW_34.4Mbps) (2422MHz)
Fest Date	:	2020/05/26
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# VERTICAL



No	Frequency	Emission	Limit	Margin	Reading Level	Correct Factor	Detector
	(MHz)	Level	(dBuV/m)	(dB)	(dBuV)	(dB/m)	Туре
		(dBuV/m)					
1	4844	32.32	74.00	-41.68	44.15	-11.83	РК
* 2	7266	43.59	74.00	-30.41	56.62	-13.03	РК
3	9688	31.09	74.00	-42.91	43.87	-12.78	РК

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Emission Level = Reading Level + Correct Factor.
- 3. Correct Factor = Antenna factor + Cable loss Amplifier gain.
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### HORIZONTAL



No	Frequency	Emission	Limit	Margin	Reading Level	Correct Factor	Detector
	(MHz)	Level	(dBuV/m)	(dB)	(dBuV)	(dB/m)	Туре
		(dBuV/m)					
1	4884	45.53	74.00	-28.47	57.11	-11.58	РК
* 2	7326	50.52	74.00	-23.48	64.12	-13.60	РК
3	9768	45.38	74.00	-28.62	57.95	-12.57	РК

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Emission Level = Reading Level + Correct Factor.
- 3. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 4. The average measurement was not performed when the peak measured data under the limit of average detection.
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Test Date	:	2020/05/26

## VERTICAL



No	Frequency	Emission	Limit	Margin	Reading Level	Correct Factor	Detector
	(MHz)	Level	(dBuV/m)	(dB)	(dBuV)	(dB/m)	Туре
		(dBuV/m)					
1	4884	46.66	74.00	-27.34	58.24	-11.58	РК
* 2	7326	57.07	74.00	-16.93	70.67	-13.60	РК
3	9768	45.32	74.00	-28.68	57.89	-12.57	РК

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Emission Level = Reading Level + Correct Factor.
- 3. Correct Factor = Antenna factor + Cable loss Amplifier gain.
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- Test Item : Harmonic Radiated Emission Data
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# VERTICAL



No	Frequency	Emission	Limit	Margin	Reading Level	Correct Factor	Detector
	(MHz)	Level	(dBuV/m)	(dB)	(dBuV)	(dB/m)	Туре
		(dBuV/m)					
* 1	7326	44.05	54.00	-9.95	57.65	-13.60	AV

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Emission Level = Reading Level + Correct Factor.
- 3. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 4. The average measurement was not performed when the peak measured data under the limit of average detection.
- 5. The emission levels of other frequencies are very lower than the limit and not show in test report.



Product	:	Portable computer
Test Item	:	Harmonic Radiated Emission Data
Test Mode	:	Mode 16 MIMO: Transmit (802.11ax-40BW_34.4Mbps) (2452 MHz)
Test Date	:	2020/05/26

# HORIZONTAL



No	Frequency	Emission	Limit	Margin	Reading Level	Correct Factor	Detector
	(MHz)	Level	(dBuV/m)	(dB)	(dBuV)	(dB/m)	Туре
		(dBuV/m)					
1	4904	45.73	74.00	-28.27	57.17	-11.44	РК
* 2	7356	48.37	74.00	-25.63	62.21	-13.84	РК
3	9808	44.32	74.00	-29.68	57.32	-13.00	РК

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Emission Level = Reading Level + Correct Factor.
- 3. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 4. The average measurement was not performed when the peak measured data under the limit of average detection.
- 5. The emission levels of other frequencies are very lower than the limit and not show in test report.



:	Portable computer
:	Harmonic Radiated Emission Data
:	Mode 16 MIMO: Transmit (802.11ax-40BW_34.4Mbps) (2452 MHz)
:	2020/05/26
	: : :

# VERTICAL



No	Frequency	Emission	Limit	Margin	Reading Level	Correct Factor	Detector
	(MHz)	Level	(dBuV/m)	(dB)	(dBuV)	(dB/m)	Туре
		(dBuV/m)					
1	4904	45.53	74.00	-28.47	56.97	-11.44	РК
* 2	7356	57.39	74.00	-16.61	71.23	-13.84	РК
3	9808	44.08	74.00	-29.92	57.08	-13.00	РК

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Emission Level = Reading Level + Correct Factor.
- 3. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 4. The average measurement was not performed when the peak measured data under the limit of average detection.
- 5. The emission levels of other frequencies are very lower than the limit and not show in test report.



:	Portable computer
:	Harmonic Radiated Emission Data
:	Mode 16 MIMO: Transmit (802.11ax-40BW_34.4Mbps) (2452 MHz)
:	2020/05/26
	: : :

# VERTICAL



No	Frequency	Emission	Limit	Margin	Reading Level	Correct Factor	Detector
	(MHz)	Level	(dBuV/m)	(dB)	(dBuV)	(dB/m)	Туре
		(dBuV/m)					
* 1	7356	44.05	54.00	-9.95	57.89	-13.84	AV

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Emission Level = Reading Level + Correct Factor.
- 3. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 4. The average measurement was not performed when the peak measured data under the limit of average detection.
- 5. The emission levels of other frequencies are very lower than the limit and not show in test report.



57 MHz)
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# HORIZONTAL



No	Frequency	Emission	Limit	Margin	Reading Level	Correct Factor	Detector
	(MHz)	Level	(dBuV/m)	(dB)	(dBuV)	(dB/m)	Туре
		(dBuV/m)					
* 1	4914	45.26	74.00	-28.74	56.60	-11.34	РК
2	7371	43.11	74.00	-30.89	57.09	-13.98	РК
3	9828	43.95	74.00	-30.05	57.18	-13.23	РК

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- 2. Emission Level = Reading Level + Correct Factor.
- 3. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 4. The average measurement was not performed when the peak measured data under the limit of average detection.
- 5. The emission levels of other frequencies are very lower than the limit and not show in test report.



:	Portable computer
:	Harmonic Radiated Emission Data
:	Mode 16 MIMO: Transmit (802.11ax-40BW_34.4Mbps) (2457 MHz)
:	2020/05/26
	: : :

# VERTICAL



No	Frequency	Emission	Limit	Margin	Reading Level	Correct Factor	Detector
	(MHz)	Level	(dBuV/m)	(dB)	(dBuV)	(dB/m)	Туре
		(dBuV/m)					
* 1	4914	46.56	74.00	-27.44	57.90	-11.34	РК
2	7371	42.47	74.00	-31.53	56.45	-13.98	РК
3	9828	45.78	74.00	-28.22	59.01	-13.23	РК

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Emission Level = Reading Level + Correct Factor.
- 3. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 4. The average measurement was not performed when the peak measured data under the limit of average detection.
- 5. The emission levels of other frequencies are very lower than the limit and not show in test report.



:	Portable computer
:	Harmonic Radiated Emission Data
:	Mode 16 MIMO: Transmit (802.11ax-40BW_34.4Mbps) (2462 MHz)
:	2020/05/26
	: : :

# HORIZONTAL



No	Frequency	Emission	Limit	Margin	Reading Level	Correct Factor	Detector
	(MHz)	Level	(dBuV/m)	(dB)	(dBuV)	(dB/m)	Туре
		(dBuV/m)					
1	4924	45.65	74.00	-28.35	56.89	-11.24	РК
* 2	7386	47.27	74.00	-26.73	61.37	-14.10	РК
3	9848	44.18	74.00	-29.82	57.62	-13.44	РК

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Emission Level = Reading Level + Correct Factor.
- 3. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 4. The average measurement was not performed when the peak measured data under the limit of average detection.
- 5. The emission levels of other frequencies are very lower than the limit and not show in test report.



:	Portable computer
:	Harmonic Radiated Emission Data
:	Mode 16 MIMO: Transmit (802.11ax-40BW_34.4Mbps) (2462 MHz)
:	2020/05/26
	: : :

# VERTICAL



No	Frequency	Emission	Limit	Margin	Reading Level	Correct Factor	Detector
	(MHz)	Level	(dBuV/m)	(dB)	(dBuV)	(dB/m)	Туре
		(dBuV/m)					
1	4924	47.05	74.00	-26.95	58.29	-11.24	РК
* 2	7386	54.66	74.00	-19.34	68.76	-14.10	РК
3	9848	44.42	74.00	-29.58	57.86	-13.44	РК

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Emission Level = Reading Level + Correct Factor.
- 3. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 4. The average measurement was not performed when the peak measured data under the limit of average detection.
- 5. The emission levels of other frequencies are very lower than the limit and not show in test report.



:	Portable computer
:	Harmonic Radiated Emission Data
:	Mode 16 MIMO: Transmit (802.11ax-40BW_34.4Mbps) (2462 MHz)
:	2020/05/26
	: : :

# VERTICAL



No	Frequency	Emission	Limit	Margin	Reading Level	Correct Factor	Detector
	(MHz)	Level	(dBuV/m)	(dB)	(dBuV)	(dB/m)	Туре
		(dBuV/m)					
* 1	7386	41.81	54.00	-12.19	55.91	-14.10	AV

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Emission Level = Reading Level + Correct Factor.
- 3. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 4. The average measurement was not performed when the peak measured data under the limit of average detection.
- 5. The emission levels of other frequencies are very lower than the limit and not show in test report.



Product	:	Portable computer
Test Item	:	General Radiated Emission Data
Test Mode	:	Mode 7 SISO B: Transmit (802.11b_1Mbps) (2442 MHz)
Test Date	:	2020/05/12

### HORIZONTAL



No	Frequency	Emission	Limit	Margin	Reading Level	Correct Factor	Detector
	(MHz)	Level	(dBuV/m)	(dB)	(dBuV)	(dB/m)	Туре
		(dBuV/m)					
1	89.17	31.68	43.50	-11.82	41.08	-9.40	QP
2	299.66	28.51	46.00	-17.49	36.79	-8.28	QP
3	598.42	30.74	46.00	-15.26	30.96	-0.22	QP
4	748.77	33.42	46.00	-12.58	33.73	-0.31	QP
* 5	799.21	38.60	46.00	-7.40	41.29	-2.69	QP
6	861.29	37.60	46.00	-8.40	39.71	-2.11	QP

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Emission Level = Reading Level + Correct Factor.
- 3. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 4. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 5. No emission found between lowest internal used/generated frequency to 30MHz.



Product:Portable computerTest Item:General Radiated Emission DataTest Mode:Mode 7 SISO B: Transmit (802.11b\_1Mbps) (2442 MHz)Test Date:2020/05/12

# VERTICAL



No	Frequency	Emission	Limit	Margin	Reading Level	Correct Factor	Detector
	(MHz)	Level	(dBuV/m)	(dB)	(dBuV)	(dB/m)	Туре
		(dBuV/m)					
* 1	98.87	29.20	43.50	-14.30	37.86	-8.66	QP
2	299.66	27.61	46.00	-18.39	35.89	-8.28	QP
3	464.56	29.73	46.00	-16.27	34.22	-4.49	QP
4	598.42	31.48	46.00	-14.52	31.70	-0.22	QP
5	797.27	30.78	46.00	-15.22	33.43	-2.65	QP
6	969.93	29.72	54.00	-24.28	31.58	-1.86	QP

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Emission Level = Reading Level + Correct Factor.
- 3. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 4. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 5. No emission found between lowest internal used/generated frequency to 30MHz.



Product	:	Portable computer
Test Item	:	General Radiated Emission Data
Test Mode	:	Mode 13 MIMO: Transmit (802.11n-20BW_14.4Mbps) (2442 MHz)
Test Date	:	2020/05/28
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# HORIZONTAL



No	Frequency	Emission	Limit	Margin	Reading Level	Correct Factor	Detector
	(MHz)	Level	(dBuV/m)	(dB)	(dBuV)	(dB/m)	Туре
		(dBuV/m)					
* 1	69.2	32.55	40.00	-7.45	46.44	-13.89	QP
2	303.31	29.66	46.00	-16.34	37.78	-8.12	QP
3	476.34	34.26	46.00	-11.74	39.68	-5.42	QP
4	603.58	33.45	46.00	-12.55	33.87	-0.42	QP
5	803.47	33.16	46.00	-12.84	35.88	-2.72	QP
6	937.51	34.21	46.00	-11.79	36.63	-2.42	QP

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Emission Level = Reading Level + Correct Factor.
- 3. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 4. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 5. No emission found between lowest internal used/generated frequency to 30MHz.



Product	:	Portable computer
Test Item	:	General Radiated Emission Data
Test Mode	:	Mode 13 MIMO: Transmit (802.11n-20BW_14.4Mbps) (2442 MHz)
Test Date	:	2020/05/28

# VERTICAL



No	Frequency	Emission	Limit	Margin	Reading Level	Correct Factor	Detector
	(MHz)	Level	(dBuV/m)	(dB)	(dBuV)	(dB/m)	Туре
		(dBuV/m)					
* 1	90.46	34.65	43.50	-8.85	43.78	-9.13	QP
2	255.37	31.52	46.00	-14.48	43.16	-11.64	QP
3	435.66	31.65	46.00	-14.35	35.50	-3.85	QP
4	686.95	33.07	46.00	-12.93	36.13	-3.06	QP
5	755.25	32.76	46.00	-13.24	33.82	-1.06	QP
6	893.662	33.27	46.00	-12.73	36.38	-3.11	QP

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Emission Level = Reading Level + Correct Factor.
- 3. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 4. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 5. No emission found between lowest internal used/generated frequency to 30MHz.



Product	:	Portable computer
Test Item	:	General Radiated Emission Data
Test Mode	:	Mode 14 MIMO: Transmit (802.11n-40BW_30Mbps) (2442 MHz)
Test Date	:	2020/05/28

## HORIZONTAL



No	Frequency	Emission	Limit	Margin	Reading Level	Correct Factor	Detector
	(MHz)	Level	(dBuV/m)	(dB)	(dBuV)	(dB/m)	Туре
		(dBuV/m)					
1	102.78	31.96	43.50	-11.54	40.74	-8.78	QP
2	302.87	31.47	46.00	-14.53	39.60	-8.13	QP
3	472.69	31.57	46.00	-14.43	36.70	-5.13	QP
4	607.41	31.23	46.00	-14.77	31.96	-0.73	QP
5	753.47	32.54	46.00	-13.46	33.40	-0.86	QP
* 6	809.26	34.65	46.00	-11.35	37.39	-2.74	QP

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Emission Level = Reading Level + Correct Factor.
- 3. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 4. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 5. No emission found between lowest internal used/generated frequency to 30MHz.



Product	:	Portable computer
Test Item	:	General Radiated Emission Data
Test Mode	:	Mode 14 MIMO: Transmit (802.11n-40BW_30Mbps) (2442 MHz)
Test Date	:	2020/05/28

# VERTICAL



No	Frequency	Emission	Limit	Margin	Reading Level	Correct Factor	Detector
	(MHz)	Level	(dBuV/m)	(dB)	(dBuV)	(dB/m)	Туре
		(dBuV/m)					
* 1	105.38	31.62	43.50	-11.88	40.72	-9.10	QP
2	289.37	32.42	46.00	-13.58	43.23	-10.81	QP
3	509.51	32.37	46.00	-13.63	36.98	-4.61	QP
4	714.23	33.05	46.00	-12.95	35.99	-2.94	QP
5	833.62	32.89	46.00	-13.11	35.31	-2.42	QP
6	973.89	33.16	54.00	-20.84	34.91	-1.75	QP

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Emission Level = Reading Level + Correct Factor.
- 3. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 4. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 5. No emission found between lowest internal used/generated frequency to 30MHz.



Product	:	Portable computer
Test Item	:	General Radiated Emission Data
Test Mode	:	Mode 15 MIMO: Transmit (802.11ax-20BW_17.2Mbps) (2442 MHz)
Test Date	:	2020/05/28

## HORIZONTAL



No	Frequency	Emission	Limit	Margin	Reading Level	Correct Factor	Detector
	(MHz)	Level	(dBuV/m)	(dB)	(dBuV)	(dB/m)	Туре
		(dBuV/m)					
* 1	98.87	36.41	43.50	-7.09	45.07	-8.66	QP
2	249.22	27.70	46.00	-18.30	39.15	-11.45	QP
3	499.48	30.17	46.00	-15.83	34.66	-4.49	QP
4	607.15	31.17	46.00	-14.83	31.88	-0.71	QP
5	750.71	31.10	46.00	-14.90	31.64	-0.54	QP
6	872.93	37.57	46.00	-8.43	39.68	-2.11	QP

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Emission Level = Reading Level + Correct Factor.
- 3. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 4. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 5. No emission found between lowest internal used/generated frequency to 30MHz.



Product	:	Portable computer
Test Item	:	General Radiated Emission Data
Test Mode	:	Mode 15 MIMO: Transmit (802.11ax-20BW_17.2Mbps) (2442 MHz)
Test Date	:	2020/05/28

# VERTICAL



No	Frequency	Emission	Limit	Margin	Reading Level	Correct Factor	Detector
	(MHz)	Level	(dBuV/m)	(dB)	(dBuV)	(dB/m)	Туре
		(dBuV/m)					
1	98.87	29.76	43.50	-13.74	38.42	-8.66	QP
2	299.66	27.32	46.00	-18.68	35.60	-8.28	QP
3	473.29	30.12	46.00	-15.88	35.30	-5.18	QP
4	599.39	30.53	46.00	-15.47	30.71	-0.18	QP
5	749.74	29.68	46.00	-16.32	30.10	-0.42	QP
* 6	860.32	35.13	46.00	-10.87	37.24	-2.11	QP

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Emission Level = Reading Level + Correct Factor.
- 3. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 4. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 5. No emission found between lowest internal used/generated frequency to 30MHz.



Product	:	Portable computer
Test Item	:	General Radiated Emission Data
Test Mode	:	Mode 16 MIMO: Transmit (802.11ax-40BW_34.4Mbps) (2442 MHz)
Test Date	:	2020/05/28

## HORIZONTAL



No	Frequency	Emission	Limit	Margin	Reading Level	Correct Factor	Detector
	(MHz)	Level	(dBuV/m)	(dB)	(dBuV)	(dB/m)	Туре
		(dBuV/m)					
* 1	89.17	36.27	43.50	-7.23	45.67	-9.40	QP
2	249.22	28.46	46.00	-17.54	39.91	-11.45	QP
3	433.52	29.63	46.00	-16.37	33.69	-4.06	QP
4	667.29	31.72	46.00	-14.28	35.31	-3.59	QP
5	749.74	31.35	46.00	-14.65	31.77	-0.42	QP
6	867.11	34.90	46.00	-11.10	37.01	-2.11	QP

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Emission Level = Reading Level + Correct Factor.
- 3. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 4. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 5. No emission found between lowest internal used/generated frequency to 30MHz.



Product	:	Portable computer
Test Item	:	General Radiated Emission Data
Test Mode	:	Mode 16 MIMO: Transmit (802.11ax-40BW_34.4Mbps) (2442 MHz)
Test Date	:	2020/05/28

# VERTICAL



No	Frequency	Emission	Limit	Margin	Reading Level	Correct Factor	Detector
	(MHz)	Level	(dBuV/m)	(dB)	(dBuV)	(dB/m)	Туре
		(dBuV/m)					
* 1	68.8	31.90	40.00	-8.10	45.78	-13.88	QP
2	298.69	28.13	46.00	-17.87	36.66	-8.53	QP
3	494.63	32.04	46.00	-13.96	36.85	-4.81	QP
4	599.39	31.38	46.00	-14.62	31.56	-0.18	QP
5	835.1	31.95	46.00	-14.05	34.33	-2.38	QP
6	966.05	31.30	54.00	-22.70	33.29	-1.99	QP

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Emission Level = Reading Level + Correct Factor.
- 3. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 4. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 5. No emission found between lowest internal used/generated frequency to 30MHz.

# 5. **RF** antenna conducted test

# 5.1. Test Setup

### **RF** antenna Conducted Measurement:



# 5.2. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

# 5.3. Test Procedure

The EUT was tested according to C63.10:2013 Section 11.11 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Set VBW> RBW, scan up through 10th harmonic.

## 5.4. Uncertainty

 $\pm 1.20 dB$ 

# 5.5. Test Result of RF antenna conducted test

Product	:	Portable computer
Test Item	:	RF antenna conducted test
Test Mode	:	Mode 7 SISO B: Transmit (802.11b_1Mbps)
Test Date	:	2020/05/12



### Channel 03 (2442MHz)



#### Channel 11 (2462MHz)





#### Channel 12 (2467MHz)



### Channel 13 (2472MHz)



Note: The above test pattern is synthesized by multiple of the frequency range.



Product	:	Portable computer
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 13 MIMO: Transmit (802.11n-20BW_14.4Mbps)
Test Date	:	2020/05/12

# Channel 01 (2412MHz)-Chain A



## Channel 03 (2442MHz)-Chain A



# Channel 11 (2462MHz)-Chain A





#### Channel 12 (2467MHz)-Chain A



# Channel 13 (2472MHz)-Chain A



Note: The above test pattern is synthesized by multiple of the frequency range.



Product	:	Portable computer
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 13 MIMO: Transmit (802.11n-20BW_14.4Mbps)
Test Date	:	2020/05/12

# Channel 01 (2412MHz)-Chain B



# Channel 03 (2442MHz)-Chain B



# Channel 11 (2462MHz)-Chain B





#### Channel 12 (2467MHz)-Chain B



# Channel 13 (2472MHz)-Chain B



Note: The above test pattern is synthesized by multiple of the frequency range.



Product	:	Portable computer
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 14 MIMO: Transmit (802.11n-40BW_30Mbps)
Test Date	:	2020/05/12

# Channel 03 (2422MHz)-Chain A



## Channel 07 (2442MHz)-Chain A



### Channel 09 (2452MHz)-Chain A





#### Channel 10 (2457MHz)-Chain A



## Channel 11 (2462MHz)-Chain A



Note: The above test pattern is synthesized by multiple of the frequency range.



Product	:	Portable computer
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 14 MIMO: Transmit (802.11n-40BW_30Mbps)
Test Date	:	2020/05/12

# Channel 03 (2422MHz)-Chain B



# Channel 07 (2442MHz)-Chain B



#### Channel 09 (2452MHz)-Chain B





#### Channel 10 (2457MHz)-Chain B



### Channel 11 (2462MHz)-Chain B



Note: The above test pattern is synthesized by multiple of the frequency range.



Product	:	Portable computer
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 15 MIMO: Transmit (802.11ax-20BW_17.2Mbps)
Test Date	:	2020/05/12

# Channel 01 (2412MHz)-Chain A



## Channel 03 (2442MHz)-Chain A



# Channel 11 (2462MHz)-Chain A





#### Channel 12 (2467MHz)-Chain A



# Channel 13 (2472MHz)-Chain A



Note: The above test pattern is synthesized by multiple of the frequency range.



Product	:	Portable computer
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 15 MIMO: Transmit (802.11ax-20BW_17.2Mbps)
Test Date	:	2020/05/12

### Channel 01 (2412MHz)-Chain B



## Channel 03 (2442MHz)-Chain B



# Channel 11 (2462MHz)-Chain B





#### Channel 12 (2467MHz)-Chain B



# Channel 13 (2472MHz)-Chain B



Note: The above test pattern is synthesized by multiple of the frequency range.



Product	:	Portable computer
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 16 MIMO: Transmit (802.11ax-40BW_34.4Mbps)
Test Date	:	2020/05/12

## Channel 03 (2422MHz)-Chain A



## Channel 07 (2442MHz)-Chain A



#### Channel 09 (2452MHz)-Chain A





#### Channel 10 (2457MHz)-Chain A



## Channel 11 (2462MHz)-Chain A



Note: The above test pattern is synthesized by multiple of the frequency range.



Product	:	Portable computer
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 16 MIMO: Transmit (802.11ax-40BW_34.4Mbps)
Test Date	:	2020/05/12

# Channel 03 (2422MHz)-Chain B



# Channel 07 (2442MHz)-Chain B



#### Channel 09 (2452MHz)-Chain B





#### Channel 10 (2457MHz)-Chain B



# Channel 11 (2462MHz)-Chain B



Note: The above test pattern is synthesized by multiple of the frequency range.



# 6. Band Edge

# 6.1. Test Setup

### **RF Conducted Measurement**



### **RF Radiated Measurement:**

### Above 1GHz



# 6.2. Limits

According to FCC Section 15.247(d). In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

# 6.3. Test Procedure

The EUT was setup according to ANSI C63.10, 2013 and tested according to C63.10:2013 Section 11.12.1 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.

### **RBW and VBW Parameter setting:**

According to C63.10 Section 11.12.2.4 Peak measurement procedure.

RBW = as specified in Table 1.

VBW  $\geq$  3 x RBW.

Frequency	RBW						
9-150 kHz	200-300 Hz						
0.15-30 MHz	9-10 kHz						
30-1000 MHz	100-120 kHz						
> 1000 MHz	1 MHz						

### Table 1 — RBW as a function of frequency

According to C63.10 Section 11.12.2.5 Average measurement procedure.

RBW = 1MHz.

VBW = 10Hz, when duty cycle  $\ge$  98 %

VBW  $\geq$  1/T, when duty cycle < 98 %

( T refers to the minimum transmission duration over which the transmitter is on and is

2.4GHz band	Duty Cycle	Т	1/T	VBW		
	(%)	(ms)	(Hz)	(Hz)		
802.11 b-SISOB	97.13	8.3478	120	500		
802.11 n20-SISOB	98.79	24.8043	40	10		
802.11 n40-SISOB	98.99	36.8840	27	10		
802.11ax20-SISOB	98.50	24.7101	40	10		
802.11 ax40-SISOB	98.39	18.6232	54	10		
802.11 n20-MIMO	99.15	18.5507	54	10		
802.11 n40-MIMO	95.91	8.8406	113	500		
802.11ax20-MIMO	98.78	18.6957	53	10		
802.11 ax40-MIMO	95.35	9.2029	109	500		

transmitting at its maximum power control level for the tested mode of operation.)

Note: Duty Cycle Refer to Section 9

# 6.4. Uncertainty

- ± 4.08 dB above 1GHz
- ± 4.22 dB below 1GHz



# 6.5. Test Result of Band Edge

Product	:	Portable computer
Test Item	:	Band Edge Data
Test Mode	:	Mode 7 SISO B: Transmit (802.11b_1Mbps) (2412MHz)
Test Date	:	2020/05/28

# Peak:

M5[1] M1 M1[1] M1	RBW 1 MHz VBW 3 MHz M VASS	et 1.26 dB - 15.1 µs - P	Bm Offset dB SWT Peak	21.26 dBm 30 dB heck IG DTS_Pe	ax nit Ch le 2.44	Ref Li Att 1Pk M Lin 10 dBm
MS[1] M1[1] M1[1]	VBW 3 MHz M	15.1 μs 📦	dB SWT	30 dB neck IG DTS_Pe	ax nit Ch ie 2,44	Att 1Pk M Lin 10 dBm
M5[1] M1 M1[1] M1	PASS PASS	P	Peak	neck IG DTS_Pe	ax nit Ch le 2.44	● 1Pk M Lin 10 dBm
M5[1] M1 M1[1] M1	2455	P	Peak	neck IG DTS_Pe	nit Ch le 2.4	Lin Lin 10 dBm
M1[1]	PASS	p	Peak	IG DTS_Pe	e 2.4	Lin 10 dBm
M1[1] ~~~			_			10 dBm
					_	
						0 dBm-
						o ubili
					n	-10 dBm
	+					-20 dBn
				ik	5_Peak	2.4G DTS
		-			n	-30 dBn
M4						to doe
X.	MS M2					-40 aBn
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	mon	man	man	pap	-รอ ปยา
		202	1	8		
			-		n	-60 dBm
					n	-70 dBn
	691 pts			z	9 GHz	CF 2.3
						Marker
Function	Y-value	alue	X-valu	Trc	Ref	Type
	10.47 dBm	41084 GHz	2.41	1		M1
	-49.10 dBm	2.39 GHz	2	1	-	M2
	-44.71 dBm	2.4 GHz		1		M3
	-43.37 dBm	39825 GHz	2.39	1		M4
	-45.17 dBm	38537 GHZ	2.38	1		MS
	Function	MS         M4           MS         M2           691 pts         Function           10.47 dBm         -           -49.10 dBm         -           -44.71 dBm         -           -45.17 dBm         -	M5         M4           M5         M4           M5         M2           691 pts         691 pts           B4 GHz         10.47 dBm           .39 GHz         -49.10 dBm           .2.4 GHz         -44.71 dBm           225 GHz         -43.37 dBm           537 GHz         -45.17 dBm	M5         M4           M5         M4           M6         M3           M6         M3           M6         M3           M6         M3           M6         M3           M6         M3           M6         M4           M6         M6           M6         <	MS         M4           MS         M2           G91 pts         691 pts           1         2.41084 GHz         10.47 dBm           1         2.39 GHz         -49.10 dBm           1         2.39 GHz         -44.71 dBm           1         2.39537 GHz         -45.17 dBm	Ms         Ministry           9 GHz         691 pts           Ref         Trc         X-value         Function           1         2.41084 GHz         10.47 dBm         1           1         2.39 GHz         -49.10 dBm         1           1         2.39 GHz         -49.10 dBm         1           1         2.39 GHz         -44.71 dBm         1           1         2.39825 GHz         -43.37 dBm         1           1         2.38537 GHz         -45.17 dBm         1

Date: 7.MAY.2020 04:28:56

#### Average:

Spectrum	S	pectrum 2 🛛 🕱	Spectrum 3	Spectru	um 4 🛛 🗶	
Ref Level Att Count 100/	21.26 dE 30 100	Bm Offset 1.26 dB dB SWT 5.1 ms	<ul> <li>RBW 1 MHz</li> <li>VBW 500 Hz</li> </ul>	Mode Auto FFT	ļ	
1Pk Max						
Limit C	heck IG DTS_I	RMS	PASS PASS	M1[1]	M1	6.99 dBm 2.411270 GHz
			1	M2[1]	An	-58.41 dBm
0 dBm				0		2.390000 GH2
-10 dBm		-		/*		
-20 dBm						
-30 dBm						
2.4G DTS_RM	5				-	1
-50 dBm			M4 X _ M2	Ma		h
-60 dBm-		++		~		
-70 dBm						
CF 2.39 GH	z		691 pt	s		Span 100.0 MHz
Marker		Next Hints				
Type   Ref	Trc	X-value	Y-value	Function	Fund	tion Result
M1	1	2.41127 GHz	6.99 dBm			
M2	1	2.39 GHz	-58.41 dBm			
M3	1	2.4 GHz	-53.78 dBm			
M4	1	2.38537 GHz	-54.07 dBm	1		

Date: 7.MAY.2020 04:35:21



Product	:	Portable computer
Test Item	:	Band Edge Data
Test Mode	:	Mode 7 SISO B: Transmit (802.11b_1Mbps) (2467MHz)
Test Date	:	2020/05/28

# Peak:



Date: 7.MAY.2020 05:09:05

#### Average:

Spectrum	ſs	pectrum 2	× 5	pectrum 3	× 5	pectrur	n4 🕱	
Ref Level Att Count 100/1	21.26 dB 30 d	m Offset 1.3 IB SWT 5	26 dB 🥌 .1 ms 👄	RBW 1 MHz VBW 500 Hz	Mode Aut	to FFT		
1Pk Max								
Limit Ch Line 2.4 10 dBm	ieck G DTS_R	MS2	р/ м1 Р/	ABS	M1	[1] [1]		6.79 dBn 2.466280 GH: -57.30 dBn 2.492500 GH
0 dBm		1					1	2.483500 GH
-10 dBm		N					_	
-20 dBm		+/+					-	
-30 dBm								
-40 dBm				2.4G DTS_	RMS2		_	
-50 dBm				M2M3	3			
-60 dBm								
-70 dBm								
CF 2.4835 C	Hz			691 pt	s			Span 100.0 MHz
larker								
Type   Ref	Trc	X-value	1	Y-value	Functi	on	Fun	ction Result
M1	1	2.46628	3 GHz	6.79 dBm				
M2	1	2.4835	5 GHz	-57.30 dBm				
M3	1	2.48538	3 GHz	-56.23 dBm				

Date: 7.MAY.2020 05:09:38



Product	:	Portable computer
Test Item	:	Band Edge Data
Test Mode	:	Mode 7 SISO B: Transmit (802.11b_1Mbps) (2472MHz)
Test Date	:	2020/05/28

Att 30 dB SWT 15.1 µs VBW	3 MHz Mode Auto FFT	
1Pk Max		
Limit Check PASS Line 2 4G DTS_Peak2 PWBS	M1[1]	9.48 dBn 2.473370 GH
0 dBm	M2[1]	-45.62 dBn 2.483500 GH
dBm-		
10 dBm		
20 dBm	46 DTS Beak?	
30 dBm	.40 D15_P8ak2	
40 dBm	Martin C	
50 dBm		Jun Martin
50 dBm		
70 dBm		
F 2.4835 GHz	691 pts	Span 100.0 MHz
arker		
Type Ref Trc X-value Y-v	alue Function	Function Result
M2 1 2.4/33/ GHZ 9	62 dBm	
M3 1 2 49741 GHz -39	54 dBm	

Date: 8.MAY.2020 11:51:54

#### Average:

Spectru	ım 🏻 🎽	Spectrum 2	×	Spectrum 3	× Spect	rum 4 🛛 🗶	
Ref Lev	el 21.26	dBm Offset 1 0 dB SWT	.26 dB 🖷	RBW 1 MHz VBW 500 Hz		т	
Count 10	0/100						
1Pk Max							
Limi	Check		1	PASS	M1[1]		5.79 dBm
Line	2.4G DTS	_RMS2	F	ASS			2.472790 GHz
10 UBIII-				X	M2[1]		-54.01 dBn
0 dBm	3		-	V		-	2.483500 GH
o abili			N	h			
-10 dBm-			1				
			1				
-20 dBm-		-		+ ++			
20 40-							
-30 abm-							
-40 dBm-				2.4G DTS_F	M92		
					X		
-50 dBm-	A	NAV Y		- Mg^	min	6	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1			1 Y	~p	Vm	
-60 dBm-							
70 40							
-70 dBm-							
CF 2.483	5 GHz			691 pts			Span 100.0 MHz
larker							
Type   F	tef   Trc	X-value	- 1 <sup>0</sup>	Y-value	Function	Func	tion Result
M1	1	2.472	79 GHz	5.79 dBm		5	
M2	1	2.48	35 GHz	-54.01 dBm			
M3	1	2.48	// GHZ	-44.43 dBm			

Date: 8.MAY.2020 11:52:55



Product	:	Portable computer
Test Item	:	Band Edge Data
Test Mode	:	Mode 9 SISO B: Transmit (802.11n-20BW_7.2Mbps) (2412MHz)
Test Date	:	2020/06/16

Spectru	ım	T s	pectrum 2	: ®	Spectrum 3	Spect	rum 4 🛞	
Ref Lev	/el 21		Sm Offset	1.26 dB 🖷	RBW 1 MHz			1.
Att		30	dB SWT	15.1 µs 👄	VBW 3 MHz	Mode Auto FF	т	
●1Pk Max	S.,							
Limi	t Che	ck		1	PASS	M4[1]	M1	-41.97 dBm
Line	2 4G	DTS_F	Peak	F 1	PASS		m	2.389420 GHz
10 dBm-						M1[1]	~ ~	٦ 13.58 dBm
0 d0m								2.415760 GHz
o usin-						1		
-10 dBm-						Mjar		
20 0011						Δ		4
-20 dBm-					_			
2.46 DTS_	Peak							
-30 dBm-	-				-			h
					MA			m.
-40 dBm-	+		_		- X	m		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
m.	~ ~	m	mm	mon	-frank			~
-50 dBm~	174	-	-					
60 dBm								
-00 UBIII-								
-70 dBm-								
70 00111								
CE 2.39	GHz				691 n	ts		Span 100.0 MHz
Marker		_				1.7		
Tune	of	Tre	¥-valu	e	Y-value	Eunction	l Eun	ction Result
M1		1	2.41	576 GHz	13.58 dBm	. anccion	1 un	ocion Rosait
M2		1	2	.39 GHz	-43.87 dBm			
M3		1		2.4 GHz	-11.13 dBm			
M4		1	2.38	942 GHz	-41.97 dBm			
	11	_				) M	easuring	AX4
							easoningin and	

Date: 16.JUN.2020 08:03:42

#### Average:

Spectrum	Spe	ctrum 2 🛛 🗶	Spectrum 3	Spectrum	4 ×	
Ref Level 2 Att Count 100/10	1.26 dBm 30 dB	Offset 1.26 dB SWT 253.8 ms	<ul> <li>RBW 1 MHz</li> <li>VBW 10 Hz</li> </ul>	Mode Auto FFT		x
1Pk Max						
Limit Che Line 2.40 10 dBm	eck GDTS_RMS	i F	PASS	M1[1]	MI	1.34 dBm 2.415620 GHz -55.71 dBm
0 dBm						2.390000 GHz
-10 dBm						
-20 dBm				M3		
-30 dBm						
2.4G DTS_RMS-						
-50 dBm				/		
-60 d8m						
-70 dBm						
CF 2.39 GHz			691 pts	; ;		Span 100.0 MHz
Marker						
Type Ref	Trc	X-value	Y-value	Function	Functi	on Result
M1	1	2.41562 GHz	1.34 dBm			
M2 M3	1	2.39 GHz 2.4 GHz	-28.77 dBm			

Date: 16.JUN.2020 08:06:46



:	Portable computer
:	Band Edge Data
:	Mode 9 SISO B: Transmit (802.11n-20BW_7.2Mbps) (2462MHz)
:	2020/06/16
	: : :

Spectrum	Sp	ectrum 2	×	Spectrum 3	X	Spectru	m 4 🛛 🗶	)	
Ref Level	21.26 dBm	Offset 1	.26 dB 🖷	RBW 1 MHz					
Att	30 dB	SWT	.5.1 µs 👳	VBW 3 MHz	Mode Au	ito FFT			
IPK Max						1511			10.40 db.
Line 2.4 10 dBm	HG DTS_Pe	ak2 , 🔨 —		PASS	м	2[1]		2.4	59190 GH: 43.53 dBn
0 dBm	(				3		-	2.4	83500 GH
-10 dBm									
-20 dBm					Dealo		_		
-30 dBm	/			2.46 DIS_	Peak2		_		
-40 dBm	/			- Jule	мз		_	_	
-50 dBm					· www.	m	mm	mm	mm
-60 dBm									
-70 dBm									
CF 2.4835	GHz			691 pt	s			Span 1	.00.0 MHz
Marker									
Type Ref	Trc	X-value		Y-value	Func	tion	Fi	unction Result	
M1	1	2,459	19 GHz	13.40 dBm	-				
M2 M3	1	2.48	26 GHz	-40.66 dBm					
	)[				T	Meas	suring 🚺		

Date: 16.JUN.2020 08:07:57

### Average:

Spectrum	Sp	ectrum 2 🛛 🗴	Spectrum 3	🗴 Spectru	um 4 🛞	
Ref Level 2 Att Count 100/10	21.26 dBm 30 dB	Offset 1.26 dB SWT 253.8 ms	<ul> <li>RBW 1 MHz</li> <li>VBW 10 Hz</li> </ul>	Mode Auto FF1	r	
●1Pk Max						
Limit Ch Line 2.40 10 dBm	eck G DTS_RN	1 <b>S2</b>	PASS PASS	M1[1] M2[1]		2.41 dBm 2.459910 GHz -53.66 dBm
0 dBm					1 1	2.483500 GHz
-10 dBm						
-20 dBm						
-30 dBm			$\rightarrow$		_	
-40 dBm	/			RMS2	_	
-50 dBm	<u></u>		M2			
-60 dBm						
-70 dBm						
CF 2.4835 G	Hz		691 pt	s		Span 100.0 MHz
Marker						
Type   Ref	Trc	X-value	Y-value	Function	Funct	ion Result
M1 M2	1	2.45991 GHz 2.4835 GHz	2.41 dBm -53.66 dBm			
	(			Mea	suring	111 III 440

Date: 16.JUN.2020 08:10:38



Product	:	Portable computer
Test Item	:	Band Edge Data
Test Mode	:	Mode 9 SISO B: Transmit (802.11n-20BW_7.2Mbps) (2467MHz)
Test Date	:	2020/06/16

Spectrum	Spectrum 2 (	Spectrum 3	× Spectru	um 4 🙁	
Ref Level 21.26	dBm Offset 1.26	dB 🖷 RBW 1 MHz			
Att 30	0 dB SWT 15.1	µs 💩 VBW 3 MHz	Mode Auto FFT		
●1Pk Max					
Limit Check		PASS	M1[1]		11.04 dBm
Line 2 4G DTS	_Peak2	PASS	100[1]		2.470190 GHz
10 dBin	M	m	M2[1]		-36.33 dBm 2.483500 GHz
0 dBm					
-10 dBm		$\rightarrow$		_	
20 dBm	1	5			
-20 0611	1	2.46 DTS_1	Peak2		
-30 dBm	/	M2			
-40 dBm		<b>h</b>			
-50 dBm			mm	m	
-60 dBm					
-70 dBm					
CF 2.4835 GHz		691 pt	s		Span 100.0 MHz
Marker		4			
Type Ref Trc	X-value	Y-value	Function	Funct	ion Result
M1 1 M2 1	2.47019 GF 2.4835 GF	Hz 11.04 dBm Hz -36.33 dBm			
Ĩ			Mea	suring	

Date: 16.JUN.2020 08:40:29

#### Average:

Spectrum	Spectrum 2	Spectrum 3	🗴 Spectru	m 4 🛞	l
Ref Level 21.2 Att Count 100/100	6 dBm Offset 30 dB SWT 2	1.26 dB 👄 RBW 1 MHz 53.8 ms 👄 VBW 10 Hz	Mode Auto FFT		
1Pk Max					
Limit Check Line 2.4G D1 10 dBm	S_RMS2	PASS PASS	M1[1] M2[1]		0.05 dBm 2.471200 GHz -49.81 dBm
0 dBm					2.483500 GHz
-10 dBm	$\square$				
-20 dBm					
-30 dBm					
-40 dBm	<u> </u>	2.4G DTS	5_RMS2		
-50 dBm-					
-60 dBm					
-70 dBm					
CF 2.4835 GHz		691	pts	s	pan 100.0 MHz
Marker					
Type Ref Tro	X-value	Y-value	Function	Function F	lesult
M1 M2	1 2.471 1 2.483	2 GHz 0.05 dBr 5 GHz -49.81 dBr	n n		
1			) Meas	uring	140

Date: 16.JUN.2020 08:14:24



Product	:	Portable computer
Test Item	:	Band Edge Data
Test Mode	:	Mode 9 SISO B: Transmit (802.11n-20BW_7.2Mbps) (2472MHz)
Test Date	:	2020/06/16

Spectrum	1 St	ectrum 2	×s	pectrum 3	× Spectr	um 4 🙁	
Ref Level	21.26 dBn	n Offset 1.	26 dB 🗧	RBW 1 MHz			
Att 🛛	30 di	3 SWT 19	5.1 µs 🖷 '	VBW 3 MHz 1	Mode Auto FFT		
●1Pk Max		· · · · · ·					
Limit C	heck		P7	455	M1[1]		7.62 dBm
Line 2.	4G DTS_Pe	ak2	M1 P4	ASS	MOT 41		2.467870 GHz
10 UBIII-		r	- An		M2[1]		-34.03 dBm 2.483500 GHz
0 dBm		L A		+			
-10 dBm		<u> </u>		+			
-20 dBm				2 46 DTS E	leak2	_	
-30 dBm				NP2		_	
-40 dBm	~~~~~	b-w-		<u> </u>	m .		
-50 dBm	~~~~				~~~	m	mont
-60 dBm							
-70 dBm							
CF 2.4835	GHz			691 pt	s		Span 100.0 MHz
Marker							
Type Ret	f Trc	X-value		Y-value	Function	Func	tion Result
M1 M2	1	2,4678	7 GHz	7.62 dBm -34.03 dBm			
1.1.144	)(	21100		0.000 0000	Me	asuring 🚺	

Date: 16.JUN.2020 08:41:50

#### Average:

Spectrum	Spe	ctrum 2 🛛 🕱	Spectrum 3	× Spectru	um 4 🙁	
Ref Level 21. Att Count 100/100	26 dBm 30 dB	Offset 1.26 d8 SWT 253.8 ms	8 👄 RBW 1 MHz 5 👄 VBW 10 Hz	Mode Auto FF1		
1Pk Max			100 100	- 100 AL 1		
Limit Chec Line 2.4G D 10 dBm	K TS_RMS	2	PASS PASS	M1[1] M2[1]		-2.86 dBm 2.473510 GHz -48.52 dBm
0 dBm			M1		1 1	2.483500 GH
-10 dBm	_					
-20 dBm	-					
-30 dBm						
-40 dBm			2.4G DTS_F	MS2		
-50 dBm						
-60 dBm						
-70 dBm						
CF 2.4835 GHz			691 pts	;		Span 100.0 MHz
Marker						
Type Ref T	1	X-value	Y-value	Function	Func	tion Result
M2	1	2.4835 GHz	-48.52 dBm			
TT I				Mea	suring	

Date: 16.JUN.2020 08:18:05



Product	:	Portable computer
Test Item	:	Band Edge Data
Test Mode	:	Mode 10 SISO B: Transmit (802.11n-40BW_15Mbps) (2422MHz)
Test Date	:	2020/06/16

Spect	rum		Spectrum 2	2 🛞	Spectrum 3	× Spectr	um 4 🙁	
Ref L	evel	21.26 0	iBm Offset	1.26 dB 🔵	RBW 1 MHz			
Att		30	dB SWT	15.1 µs 🖷	VBW 3 MHz	Mode Auto FFT		
• 1Pk M	ax							
Lin	nit ¢	heck		1	PASS	M1[1]	15772.57	10.35 dBm
Lin	e 2	4G DTS_	Peak	F	PASS		M1	2.411850 GHz
10 dBm						M2[1]	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~*1.25.dBm
0 d0m						. /		2.390000 GHz
U UBIII-								
-10 dBm	$\rightarrow$							
10 000	·					M3/		
-20 dBm	-							
2.4G DTS	S_Pe	ak				5		
-30 dBm	1-		_	-		5		
					M4	~		
-40 dBm	1-			mon	-		-	
m	~~~	m	$\gamma \phi \gamma$					
-50 dBr				-				
en dam								
-00 UBI	-			-				
-70 dBm	$\rightarrow$							
10 001								
CF 2.3	9 GH	z			691 p	ts		Span 100.0 MHz
Marker	_							
Type	Ref	Trel	X-valı	le l	Y-value	Eunction	Euno	tion Result
M1		1	2.41	185 GHz	10.35 dBm		, i din	
M2		1	2	.39 GHz	-41.25 dBm			
M3		1		2.4 GHz	-17.93 dBm			
M4		1	2.38	841 GHz	-38.05 dBm			
		1				Me	asuring	
						rie	asuring	

Date: 16.JUN.2020 08:20:41

#### Average:

Spectrum	n Sp	ectrum 2 🛛 🛞	Spectrum 3	(X) Spectrur	n4 🗶	
Ref Level Att Count 100/	21.26 dBm 30 dB 100	Offset 1.26 dB SWT 253.8 ms	<ul> <li>RBW 1 MHz</li> <li>VBW 10 Hz</li> </ul>	Mode Auto FFT		
●1Pk Max						
Limit C Line 2. 10 dBm	heck 4G DTS_RM	s i	PASS	M1[1]		-1.30 dBm 2.426900 GHz -51.68 dBm
0 dBm						M2.390000 GHz
-10 dBm				$- \Gamma$		V ~
-20 dBm						
-30 dBm				M3/		
2.4G DTS_RM	s			_/		
-50 dBm			M2			
-60 dBm						
-70 dBm					-	
CF 2.39 GH	Iz		691 pt	s		Span 100.0 MHz
Marker						
Type Ref	Trc	X-value	Y-value	Function	Func	tion Result
M1 M2	1	2.4269 GHZ	-1.30 dBm			
M3	1	2.4 GHz	-31.51 dBm			
	Y			Measu	uring 🚺	440

Date: 16.JUN.2020 08:27:49



Product	:	Portable computer
Test Item	:	Band Edge Data
Test Mode	:	Mode 10 SISO B: Transmit (802.11n-40BW_15Mbps) (2452MHz)
Test Date	:	2020/06/16

Spectrum	Sp	ectrum 2 🛞	Spectrum 3	× Spectr	um 4 🛞	E
Ref Level	21.26 dBm	Offset 1.26 dB	RBW 1 MHz			
Att	30 dB	SWT 15.1 µs 🖷	VBW 3 MHz N	Iode Auto FFT		
1Pk Max		t be	54 74			
Limit Ch	neck		PASS	M1[1]		9.38 dBm
Line 2.4	G DTS_Pe	ak2 M1	PASS			2.464250 GHz
10 aBm	m			M2[1]		-38.14 dBm
adam	~			1	- i - i	2.483500 GHz
U dBm		1				
-10 dBm						
			N I			
-20 dBm-						
			\2.4G DTS_P	eak2		
-30 dBm-				МЗ		
decora si			Men 2	m.		
-40 dBm						
				345	mon	mon
-50 dBm						
60 d8m						
-00 0811						
-70 dBm						
, c dbiii						
CF 2.4835 0	Hz		691 pts	;		Span 100.0 MHz
Marker						
Type   Ref	Trc	X-value	Y-value	Function	Func	tion Result
M1	1	2.46425 GHz	9.38 dBm			
M2	1	2.4835 GHz	-38.14 dBm			
M3	1	2.48929 GHz	-36.00 dBm			
	M			Me	asuring 💵	INNERS 490

Date: 16.JUN.2020 08:29:33

#### Average:

l m →	um 4 🕱	Spectru	Spectrum 3	um 2 🙁	Spectr	n ( )	Spectrum
, , , , , , , , , , , , , , , , , , ,		Mode Auto FFT	<ul> <li>RBW 1 MHz</li> <li>VBW 10 Hz</li> </ul>	MT 253.8 ms	dBm Of 10 dB S	21.26 d 30/100	Ref Level Att Count 100/
							1Pk Max
-49.48 dBn 2.483500 GH: -2.23 dBn		M2[1]	PASS PASS	4 F	S_RMS2	heck 4G DTS_	Limit C Line 2. 10 dBm
2.461360 GH	1	i.		M1			
				1			-10 ubiii
							-20 dBm
	_		$\downarrow$		_		-30 dBm
	_	MS2			_		-40 dBm
			M2		_		-50 dBm
							-60 dBm
							-70 dBm
Span 100.0 MHz			691 pts			GHz	CF 2.4835
	_					cl = 1	Marker
ction Result	Fund	Function	-2.23 dBm	2.46136 GHz	×	1	M1 M1
			-49.48 dBm	2.4835 GHz		1	M2

Date: 16.JUN.2020 08:34:04



Product	:	Portable computer
Test Item	:	Band Edge Data
Test Mode	:	Mode 10 SISO B: Transmit (802.11n-40BW_15Mbps) (2457MHz)
Test Date	:	2020/06/16

6	m 4 🕱	× Spectru	Spectrum 3	m 2 🗷	Spectrum	s	trum	Spect
			RBW 1 MHz	set 1.26 dB 🥃	dBm Offset	21.26 dB	evel 2	Ref L
		lode Auto FFT	VBW 3 MHz N	Τ 15.1 µs 👄	30 dB SWT	30 c		Att
			14	1			lax	●1Pk M
-36.04 dB		M3[1]	ASS	4		eck	nit ¢h	Lin
2.484660 G			ASS	P	S_Peak2	G DTS_P	ne 2 40	Lin
5.97 dB		M1[1]		W1		200	-	10 dBm
2.464250 G	ĩ		-h	m	-hv-	~~~~	mt	
	-							0 dBm
								1
							n	-10 dBm
								of do-
	_	eak2	2.46 DTS P				n	-20 081
		1.51070					<u> </u>	20 48
			∑ M3					-30 UBI
		2.0.0	Mar				~	40 dBm
0.0200 0	m.	M						-40 001
mm	· Jun						n	-50 dBm
							×	
			-				n	-60 dBm
					_		n	-70 dBm
Span 100.0 MH		;	691 pts	1		Hz	835 GI	CF 2.4
								Marker
tion Result	Fun	Function	Y-value	value	X-val	Trc	Ref	Type
			5.97 dBm	2.46425 GHz	2.4	1		M1
			-40.57 dBm	2.4835 GHz	2.4	1		M2
			-36.04 dBm	2.48466 GHz	2.4	1		M3

Date: 16.JUN.2020 08:35:02

#### Average:

Spectrum	S	pectrum 2	Spectrum 3	(X) Spectr	um 4 🙁	
Ref Level 2 Att Count 100/10	21.26 dB 30 d	m Offset 1.26 B SWT 253.8	dB 👄 RBW 1 MHz ms 👄 VBW 10 Hz	Mode Auto FF	г	
●1Pk Max						
Limit Cho Line 2.40 10 dBm	eck G DTS_R	MS2	PASS PASS	M2[1]		-51.15 dBm 2.483500 GHz -5.28 dBm 2.461360 GHz
0 dBm		MI			1 1	
-10 dgm						
-20 dBm						
-30 dBm					_	
-40 dBm				RMS2		
-50 dBm			*			
-60 dBm						
-70 dBm						
CF 2.4835 G	Hz		691 pt	s		Span 100.0 MHz
Marker	- 1		1		_	
M1 M2	1 1	2.46136 GF	z -5.28 dBm z -51.15 dBm	Function	Func	tion Result
IVIZ		2.7035 GF	-51,15 UBM	) Mea	suring	

Date: 16.JUN.2020 08:39:17



Product	:	Portable computer
Test Item	:	Band Edge Data
Test Mode	:	Mode 10 SISO B: Transmit (802.11n-40BW_15Mbps) (2462MHz)
Test Date	:	2020/06/16

Spectrum	Sp	ectrum 2	×	Spectrum 3	× 5	pectrun	14 🗴		
Ref Level : Att	21.26 dBn 30 dB	o Offset 1. S SWT 19	26 dB 🥃 5.1 µs 🖷	RBW 1 MHz VBW 3 MHz	Mode Au	to FFT			
●1Pk Max		24 De		54 - 14					
Limit Ch Line 2.4 10 dBm	eck G DTS_Pe	ak2	9 9	ASS MI	м:	L[1] 2[1]		2.4 2.4	6.41 dBm 73230 GHz 30.66 dBm 83500 GHz
0 dBm	~~~~	F		+			+	-	
-10 dBm				+ $+$					
-20 dBm	;			2,4G DTS	Peak2				
-30 dBm				M2					
~+0-6Bm					~~~~	$\sim$	ton		
-50 dBm								my	mm
-60 dBm				+					
-70 dBm				+					
CF 2.4835 G	Hz			691 p	ts			Span	100.0 MHz
Marker									
Type Ref	Trc	X-value		Y-value	Funct	ion	Fun	ction Result	¢
M1 M2	1	2.4732	5 GHz	6.41 dBm -30.66 dBm					
	)[]				T	Measu	ring 🚺		

Date: 16.JUN.2020 08:43:01

#### Average:

Spectrum	Spe	ectrum 2 🛛 🗴	Spectrum 3	(X) Spectr	um 4 🙁	
Ref Level 21 Att Count 100/100	.26 dBm 30 dB	Offset 1.26 dB SWT 253.8 ms	<ul> <li>RBW 1 MHz</li> <li>VBW 10 Hz</li> </ul>	Mode Auto FF	т	x
●1Pk Max	a					
Limit Chec Line 2.4G 10 dBm	sk DTS_RM	32	PASS PASS	M1[1]		-5.72 dBm 2.472360 GHz -49.18 dBm 2.483500 GHz
0 dBm			м1			
-10 dBm					_	
-20 dBm						
-30 dBm						
-40 dBm			2.4G DTS_F	RMS2		
-50 dBm						
-60 dBm						
-70 dBm					_	
CF 2.4835 GH	z		691 pt:	5		Span 100.0 MHz
Marker						
Type Ref 1	frc	X-value	Y-value	Function	Fun	ction Result
M1 M2	1	2.47236 GHz 2.4835 GHz	-5.72 dBm -49.18 dBm			
T T				Mea	asuring 🚺	

Date: 16.JUN.2020 08:45:47



Product	:	Portable computer
Test Item	:	Band Edge Data
Test Mode	:	Mode 11 SISO B: Transmit (802.11ax-20BW_8.6Mbps) (2412MHz)
Test Date	:	2020/06/16

Spect	trun		Spectrum :	2 🗷	Spectrum 3	× Spectr	um 4 🙁	
Ref L	eve	21.26 d	Bm Offset	1.26 dB 🔵	RBW 1 MHz			
Att		30	dB SWT	15.1 µs 👄	VBW 3 MHz I	Mode Auto FFT		
D1Pk M	lax							
Lir	nit (	heck		1	PASS	M1[1]	-	15.76 dBm
Lir 10 dBm	ne 2.	4G DTS_	Peak	F	PASS	M2[1]~~	Many	2.408520 GHz
								2.390000 GHz
0 dBm-	-				+ +		+ +	
						Ma		
-10 dBr	n—					X		
-20 dBr						الم		
2.4G DT	S Pe	ak				/		
-30 dBr	n		_	_				
								1
-40 dBr	n—		-		M4		_	har
		-	1000	mon	mmm			" n
-SO UBr	н <u>~~</u> н	- Con	mari		+ +			
-60 dBr	n							
-70 dBr	n—		-					
CF 2.3	9 GH	lz			691 pt	s		Span 100.0 MHz
Marker	0							
Туре	Re	f   Trc	X-val	ue	Y-value	Function	Functi	on Result
M1		1	2.40	852 GHz	15.76 dBm			
M2		1	1	2.39 GHz	-45.33 dBm			
M3		1		2.4 GHz	-11.78 dBm			
M4	2	1	2.38	942 GHz	-42.09 dBm			
	11	71				Ma	suring	
						110	as an ang in	

Date: 16.JUN.2020 08:56:52

#### Average:

Mode Auto FFT	RBW 1 MHz	Offcot 1 26 dB		
	<b>VBW</b> 10 Hz	SWT 253.8 ms	21.26 dBm 30 dB 100	Ref Level Att Count 100/
				●1Pk Max
M1[1]	ASS	9 9	heck 4G DTS_RMS	Limit C Line 2. 10 dBm
				0 dBm
				-10 dBm
M3				-20 dBm
				-30 dBm
_/			s	2.4G DTS_RM
	M2			-50 dBm
				-60 dBm
				-70 dBm
s	691 pt		z	CF 2.39 GH
				Marker
Function	Y-value	X-value	Trc	Type Ref
	2.25 dBm	2.40983 GHz	1	M1 M2
	-28.24 dBm	2.39 GHz 2.4 GHz	1	M3
	M3 S Function	M3           M2           691 pts           691 pts           Y-value           Function           2.25 dBm           -54.11 dBm           -28.24 dBm	M2           691 pts           2.4 GHz           2.4 GHz           -28.24 dBm	S

Date: 16.JUN.2020 08:56:29



Product	:	Portable computer
Test Item	:	Band Edge Data
Test Mode	:	Mode 11 SISO B: Transmit (802.11ax-20BW_8.6Mbps) (2462MHz)
Test Date	:	2020/06/16

Spectrum	Sp	ectrum 2 🛞	Spectrum 3	× Spectru	m 4 🛞	E
Ref Level	21.26 dBm	Offset 1.26 dB	RBW 1 MHz			(
Att	30 dE	s SWT 15.1 µs 🖷	VBW 3 MHz N	lode Auto FFT		
Limit (1	back	M		M1[1]		14.04 dBm
Line 2.4	HG DTS_Pe	ak2	PASS	M1[1]		2.463090 GHz -42.32 dBm
0 dBm					1 1	2.483500 GHz
-10 dBm						
00.40-	1					
-20 dBm	1		2.4G DTS_P	eak2		
-30 dBm	N				+ +	
-90 dBm			~~~	~	_	
-50 dBm				mm	m	mon
-60 dBm					_	
-70 dBm						
CF 2.4835 (	SHz		691 pts			Span 100.0 MHz
Marker						
Type   Ref	Trc	X-value	Y-value	Function	Functio	on Result
M1	1	2.46309 GHz	14.04 dBm			
M2 M3	1	2.4835 GHz 2.48422 GHz	-42.32 dBm -40.30 dBm			
	M			Meas	suring 🚺	

Date: 16.JUN.2020 08:57:57

### Average:

Spectrum	S	pectrum 2 🛛 🕱	Spectrum 3	(X) Spectr	um 4 🕱	E
Ref Level Att Count 100/1	21.26 dBr 30 d 100	n Offset 1.26 dB B SWT 253.8 ms	● RBW 1 MHz ● VBW 10 Hz	Mode Auto FF	т	X
1Pk Max						
Limit Cl Line 2.4 10 dBm	Limit Check Line 2.4G DTS_RMS2 10 dBm		PASS PASS	M1[1]		2.24 dBm 2.464400 GHz -53.42 dBm 2.482500 CH
0 dBm						2.483500 GH2
-10 dBm	(					
-20 dBm-						
-30 dBm			$\wedge$			
-40 dBm	/		\2.4G DTS	RMS2		
-50 dBm	/		M2			
-60 dBm					~	
-70 dBm					-	
CF 2.4835 0	GHz		691 pt	s		Span 100.0 MHz
Marker						
Type Ref	Trc	X-value	Y-value	Function	Func	tion Result
M1 M2	1	2.4644 GHZ 2.4835 GHz	-53.42 dBm			
	)(			Mea	asuring 🚺	AXA

Date: 16.JUN.2020 09:05:02



Product	:	Portable computer
Test Item	:	Band Edge Data
Test Mode	:	Mode 11 SISO B: Transmit (802.11ax-20BW_8.6Mbps) (2467MHz)
Test Date	:	2020/06/16

Spectrum	St	ectrum 2	×	Spectrum 3	× Spe	ctrum 4	X		
Ref Level	21.26 dBr	n Offset	1.26 dB 🥃	RBW 1 MHz					
Att	30 di	B SWT	15.1 µs 🖷	VBW 3 MHz	Mode Auto F	FT			
1Pk Max									
Limit Ci	neck		M1	ASS	M1[1]			13	3.24 dBm
Line 2.4	IG DTS_Pe	ak2	my	PASS	MOLT			2.46	1750 GHZ
10 0800		port		$\gamma$	MZLI			2.48	3500 GHz
0 dBm				+					
-10 dBm		/		+ + +					
-20 dBm-		/							
20 0011	/			2.4G DTS_	Peak2				
-30 dBm	/			M2					
-40 dBm-	$\sim$				~				
m	$\sim$				m	ma	400		
-50 dBm							winn	ver	min
-60 dBm									
-70 dBm									
CF 2.4835	GHz			691 pt	ts			Span 10	0.0 MHz
Marker									
Type   Ref	Trc	X-value	e	Y-value	Function		Functio	n Result	
M1	1	2.469	75 GHz	13.24 dBm					
M2	1	2.48	35 GHz	-35.59 dBm					
	π					Measuring		1818 <b>440</b>	

Date: 16.JUN.2020 09:07:03

#### Average:

Spectrum	Spe	ctrum 2	X Spe	ctrum 3	×	Spectr	um 4	X		
Ref Level 21. Att Count 100/100	26 dBm 30 dB	Offset 1.2 SWT 253.3	6 dB 👄 RB 8 ms 👄 VB	W 1 MHz W 10 Hz	Mode	Auto FF	т			
●1Pk Max										15
Limit Chec Line 2.4G L 10 dBm	Limit Check Line 2.4G DTS_RMS2 10 dBm		PASS PASS		M1[1]			0.45 d 2.465700 ( -48.14 d		0.45 dBm 465700 GHz -48.14 dBm
0 dBm		¥				-	1	1	2.	483500 GHz
-10 dBm						-				
-20 dBm	-					-				
-30 dBm	_						_			
-40 dBm	-A			_2.4G DTS_F	MS2	-				
-50 dBm	$ \rightarrow $				_					
-60 dBm								-		
-70 dBm	-					-				
CF 2.4835 GHz				691 pts	5				Span	100.0 MHz
Marker										
Type Ref T	rc	X-value	Y-	-value	Fund	tion		Funct	ion Resu	t
M2	1	2.4835 G	Hz -	48.14 dBm						
T I					1	Me	asuring	CHINE .		K)

Date: 16.JUN.2020 09:12:41



Product	:	Portable computer
Test Item	:	Band Edge Data
Test Mode	:	Mode 11 SISO B: Transmit (802.11ax-20BW_8.6Mbps) (2472MHz)
Test Date	:	2020/06/16

Spectrum	Spectrum 2	×	Spectrum 3	X Spectr	um 4 🕱	
Ref Level 21.2 Att	6 dBm Offset 30 dB SWT	1.26 dB 🥃 15.1 µs 👄	RBW 1 MHz VBW 3 MHz	Mode Auto FFT		
1Pk Max						
Limit Check		p	ASS	M1[1]		9.13 dBm
Line 2 4G D1	S_Peak2	P	ASS M1			2.479010 GHz
10 dBm-		han	hand	——M2[1]		-33.28 dBm 2.483500 GHz
0 dBm			+			
-10 dBm						
-20 dBm			246.015.0	Depk2		
-30 dBm			2.40 D13_1	-earz	_	
-40 dBm	m			mmh.		
-50 dBm				- m	mmm	mmm
-60 dBm					_	
-70 dBm						
CF 2.4835 GHz			691 pt	s		Span 100.0 MHz
Marker						
Type   Ref   Tro	x-valu	e	Y-value	Function	Fund	tion Result
M1 M2	1 2.479 1 2.48	901 GHz 335 GHz	9.13 dBm -33.28 dBm			
)(	·			) Me	asuring 🚺	

Date: 16.JUN.2020 09:14:06

#### Average:

Spectrum	Spe	ectrum 2 🛛 🕅	Spectrum 3	(X) Spectr	um 4 🙁	
Ref Level 2 Att Count 100/10	1.26 dBm 30 dB	Offset 1.26 ( SWT 253.8 r	dB 👄 RBW 1 MHz ns 🖶 VBW 10 Hz	Mode Auto FF	т	
●1Pk Max	at		11.0 M	1. 100 M I		
Limit Che Line 2.40 10 dBm	eck GDTS_RM	82	PASS PASS	M1[1]		-3.85 dBm 2.479160 GHz -49.90 dBm
0 dBm			M1		-	2.483500 GHz
-10 dBm						
-20 dBm						
-30 dBm						
-40 dBm			2.4G DTS_	RMS2		
-50 dBm			MI2			
-60 dBm	_					
-70 dBm						
CF 2.4835 G	Ηz		691 pt	s		Span 100.0 MHz
Marker	- 1					
Type Ref	Trc	2 47016 CH	Y-value	Function	Fund	tion Result
M2	1	2.4835 GHz	-49.90 dBm			
	1			Me	asuring 📲	ANN 11 420

Date: 16.JUN.2020 09:16:04



Product	:	Portable computer
Test Item	:	Band Edge Data
Test Mode	:	Mode 12 SISO B: Transmit (802.11ax-40BW_17.2Mbps) (2422MHz)
Test Date	:	2020/06/16

The second secon	m 4 🕱	Spectru	Spectrum 3	ectrum 2 🗷	Sp	trum	Spect
			RBW 1 MHz	n Offset 1.26 dB 🥃	1.26 dBm	evel 2	Ref L
		ode Auto FFT	VBW 3 MHz M	8 SWT 15.1 µs 🖷	30 dB		Att
						lax	1Pk M
12.02 dBr	641	M1[1]	PASS		eck	nit ¢h	Lin
2.415620 GH	- Am		PASS	ak I	DTS_Pe	ne 2.40	Lin 10 dBm
2.390000 GH	1					_	0 dBm–
		Ma				n	-10 dBm
						n	-20 dBm
		/				S_Peak	2.4G DT9
	-	~	M4			n	-30 dBm
				m	,	n ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	-40 dBn 
						n	-60 dBm
			+			n	-70 dBr
Span 100.0 MHz			691 pts		2	9 GHz	CF 2.3
						0	Marker
on Result	Fund	Function	Y-value	X-value	Trc	Ref	Type
			12.02 dBm	2.41562 GHz	1		M1
			-39.46 dBm	2.39 GHz	1		M2
			-17.05 dBm	2.4 GHz	1		M3
			-36.80 dBm	2 38913 GHz	1	E	M4

Date: 16.JUN.2020 09:19:20

#### Average:

Spectru	m (s	Spectrum 2	Spectrum	13 🛞 Sp	ectrum 4	X	<b>\</b>
Ref Lev Att Count 10	el 21.26 d 30 0/100	Bm Offset 1.26 dB SWT 253.8	5 dB 👄 RBW 1 M ms 👄 VBW 10	1Hz Hz Mode Aut	to FFT		,
1Pk Max	č				1.1		
Limit Line 1 10 dBm	Check 2.4G DTS_	RMS	PASS PASS	M1[	1] 1]	М1	-1.40 dBm 2.423290 GHz -52.35 dBm 2.390000 GHz
0 dBm	-				_		
-10 dBm—			1	-	$ \vdash$		
-20 dBm—							
-30 dBm—				M3	/		
2.4G DTS_F	Ms						
-50 dBm—				M2			
-60 dBm-							
-70 dBm—							
CF 2.39 (	GHz		69	91 pts		S	pan 100.0 MHz
Marker							
Type R	ef Trc	X-value	Y-value	Functio	n	Function R	esult
M1 M2	1	2.42329 G	HZ -1.40	dBm			
M3	1	2.39 G	Hz -31.61	dBm			
	T				Measuring		140

Date: 16.JUN.2020 09:24:50



Product	:	Portable computer
Test Item	:	Band Edge Data
Test Mode	:	Mode 12 SISO B: Transmit (802.11ax-40BW_17.2Mbps) (2452MHz)
Test Date	:	2020/06/16

Spectru	Im	Spectrum 2	×	Spectrum 3	X Spect	rum 4 🙁	E
Ref Lev	el 21.26 d	iBm Offset	1.26 dB 🥃	RBW 1 MHz			
Att	30	dB SWT	15.1 µs 🖷	VBW 3 MHz N	lode Auto FF1	r	
1Pk Max		24		5.00 D.00			
Limi	t Check	M1		PASS	M3[1]		-32.99 dBm
Line	2 4G DTS_	Peak2		PASS			2.484510 GHz
	m	man	mon		M1[1]		11.90 dBm 2.459040 GHz
0 dBm	+						
-10 dBm-							
-20 dBm-						_	
-30 dBm-		_		M3	Bakz		
-40 dBm-	_				man	~~	
-50 dBm-		_		_		- m	how
-60 dBm-	_	_					
-70 dBm-	-						
CF 2.483	35 GHz			691 pts			Span 100.0 MHz
Marker							
Type   F	Ref Trc	X-valu	e	Y-value	Function	Fur	nction Result
M1	1	2.459	04 GHz	11.90 dBm			
M2 M3	1	2.48	51 GHz	-37.58 dBm -32.99 dBm			
	T				M	easuring 🚺	

Date: 16.JUN.2020 09:25:50

#### Average:

	um 4 🙁	× Spectru	Spectrum 3	um 2 🙁	Spe	Spectrum
,		Mode Auto FFT	<ul> <li>RBW 1 MHz</li> <li>VBW 10 Hz</li> </ul>	ffset 1.26 dB WT 253.8 ms	1.26 dBm 30 dB 0	Ref Level Att Count 100/
					2.1	1Pk Max
-1.87 dBn 2.461790 GH -47.99 dBn		M1[1]	PASS PASS	1	eck DTS_RMS	Limit C Line 2.4 10 dBm
2.483500 GH	1			M1		0 dBm
						-10 dBm
						-20 dBm
						-30 dBm
		MS2	2.4G DTS_R			-40 dBm
						-50 dBm
						-60 dBm
						-70 dBm
Span 100.0 MHz			691 pts		łz	CF 2.4835
ction Pocult	Eupo	Eunction	Y-value	-value	Trol	Tune   Ref
cton Result	Punc	anction	-1.87 dBm	2.46179 GHz	1	M1
			-47.99 dBm	2.4835 GHz	1	M2

Date: 16.JUN.2020 09:28:26



Product	:	Portable computer
Test Item	:	Band Edge Data
Test Mode	:	Mode 12 SISO B: Transmit (802.11ax-40BW_17.2Mbps) (2457MHz)
Test Date	:	2020/06/16

Spectrur	n S	pectrum 2 (	Spectrum :	3 🛞 Spectr	um 4 🙁	
Ref Leve	1 21.26 dB	m Offset 1.26	dB 🖷 RBW 1 MHz			•
1Pk Max	30 0	5 SWI 15.1		MODE AUTO FFT		
Limit C Line 2	heck 4G DTS_P	eak2	PASS PASS	M1[1]		8.44 dBn 2.454990 GH: -39 99 dBn
~~~~	form	tomp	m	,		2.483500 GHz
0 dBpf						
-10/dBm			-+-			
-20 dBm-			2,4G DT	S Peak2	_	
/				M3		
-40 dBm			1	hunn		
-50 dBm—				-0 -	munt	m
-60 dBm—						
-70 dBm					_	
CF 2.4835	GHz		691	pts		Span 100.0 MHz
Marker	<l -="" 1<="" td=""><td></td><td>1</td><td>1</td><td></td><td></td></l>		1	1		
Type Re M1	t Trc	2 45400 C	Y-value	Function	Functi	on Result
M2	1	2.4835 G	Hz -39.99 d	Bm		
M3	1	2.48422 G	Hz -36.19 d	Bm		
MIS		2.40422 G	-2 -30.19 u	) Me	asuring 🚺	1111 <b>1) 4,4</b> 4

Date: 16.JUN.2020 09:29:18

#### Average:

Spectrum	Spe	ectrum 2	X	Spectrum 3	Spec	trum 4 🛛 🖸	3
Ref Level 21 Att Count 100/100	.26 dBm 30 dB	Offset SWT	1.26 dB 253.8 ms	<ul> <li>RBW 1 MHz</li> <li>VBW 10 Hz</li> </ul>	Mode Auto F	FT	
●1Pk Max	o		~	12. AM			
Limit Chec Line 2.4G 10 dBm	sk DTS_RM	52		PASS	M1[1]		-4.95 dBm 2.465990 GHz -52.42 dBm 2.483500 GHz
0 dBm		~ ~	M1				
-10 d8m		~		$\uparrow$			
-20 dBm							
-30 dBm							
-40 dBm				2.4G DTS_	RMS2		
-50 dBm				- Ma			
-60 dBm							
-70 dBm							
CF 2.4835 GH	z			691 pt	s		Span 100.0 MHz
Marker					1	1 -	
Type Ref 1	1	2 465	B 00 CH7	-4.05 dbm	Function	F	unction Result
M2	1	2.403	35 GHz	-52.42 dBm			
) (					) M	leasuring	

Date: 16.JUN.2020 09:31:37



Product	:	Portable computer
Test Item	:	Band Edge Data
Test Mode	:	Mode 12 SISO B: Transmit (802.11ax-40BW_17.2Mbps) (2462MHz)
Test Date	:	2020/06/16

Spectrum	Spee	ctrum 2	×	Spectrum 3	×	Spectru	um 4 🛞		
Ref Level 21 Att	.26 dBm 30 dB	Offset : SWT	26 dB 📦	RBW 1 MHz VBW 3 MHz	Mode A	to FFT			
●1Pk Max					inout in				
Limit Chec Line 2.4G I 10 dBm	k DTS_Peak	¢2	1	ASS ASS M1	м	1[1] 2[1]		2.4	7.79 dBm 79740 GHz 35.43 dBm
0 dBm /	n	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	m		-	-	2.4	83500 GHZ
-10 dBm				+					
-20 dBm				2.4G DTS	Peak2				
-30 dBm				M2					
_40.d8m				+	~~~~~	ww	mar		
-50 dBm							1	mon	m
-60 dBm									
-70 dBm									
CF 2.4835 GHz	:			691 p	ts			Span 1	00.0 MHz
Marker	- 1				1 -		-		
Type Ref T	1	2 470	74 CH2	7 70 dBm	Func	tion	Fun	ction Result	
M2	1	2.479	35 GHz	-35.43 dBn	1				
					Ĩ	) Mea	suring 🚺		

Date: 16.JUN.2020 09:34:02

#### Average:

Spectrum	Spe	ectrum 2	×S	pectrum 3	×	Spectr	rum 4	X		
Ref Level 2 Att Count 100/10	1.26 dBm 30 dB 0	Offset 1. SWT 253	26 dB 👄 .8 ms 👄	RBW 1 MHz VBW 10 Hz	Mode	Auto FF	т			
●1Pk Max	21									
Limit Che Line 2.4G 10 dBm	CK DTS_RM	52	РА РА	55 55	N	11[1] 12[1]			2.4	-6.64 dBm 65840 GHz 50.32 dBm 83500 GHz
0 dBm		м	1			1	1		50	
-10 dBm			L			-				
-20 dBm						-				
-30 dBm							_			
-40 dBm				2.4G DTS	RMS2					
-50 dBm				M2						
-60 dBm					1					
-70 dBm						-	_			
CF 2.4835 GH	łz			691 pt	5		-		Span	100.0 MHz
Marker										
Type Ref	Trc	X-value	-	Y-value	Fund	ction		Func	tion Result	t
M1 M2	1	2.46584	GHZ	-50.32 dBm						
						Me	asuring	CH NI		a

Date: 16.JUN.2020 09:37:38



:	Portable computer
:	Band Edge Data
:	Mode 13 MIMO: Transmit (802.11n-20BW_14.4Mbps) (2412MHz)
:	2020/05/28
	: : :

# Peak: - Chain A

Spectrum	Sp Sp	ectrum 2 🔳	Spectrum 3	× Spectru	um 4 🙁	land the second
Ref Level	24.27 dBm	n Offset 4.27 dB	RBW 1 MHz			X
Att	30 dB	3 SWT 15.1 µs 🖷	VBW 3 MHz M	Mode Auto FFT		
1Pk Max						
20 deimit Ch	eck		PASS	M1[1]		12.99 dBn
Line 2.4	G DTS_Pe	ak	PASS		MI	2.410840 GH
10 dBm				M2[1]	m	-44.88 dBn
000000000				. [		2.390000 GH
0 dBm						
				M3/		
-10 dBm		-	0.0			
				/		1
-20 dBm-						1
2.4G DTS_Peal	ĸ			/	1 1	
-30 dBm				/		7
			M4	1		V
-40 dBm	- 0-			~	+ +	man
	von	have				
-50 dBm			2	2		
-60 dBm						
70 d0m						
-/0 ubiii-						
CF 2.39 GHz			691 pts	s		Span 100.0 MHz
Marker						
Type   Ref	Trc	X-value	Y-value	Function	Funct	ion Result
M1	1	2.41084 GHz	12.99 dBm			
M2	1	2.39 GHz	-44.88 dBm			
M3	1	2.4 GHz	-10.40 dBm			
M4	1	2.38928 GHz	-41.07 dBm			

Date: 22.MAY.2020 05:36:19

### Average: - Chain A

Spectrum	Spectrum 2	2 X	Spectrum 3	Spectrun	n4 🛛	
Ref Level 24.2	7 dBm Offset	4.27 dB	RBW 1 MHz			
Count 100/100	30 05 501	253.8 ms	WBW 10 HZ	Mode Auto FF1		
1Pk Max						
an dimit Check	2	p	ASS	M1[1]		0.95 dBm
Line 2.4G D	TS_RMS	p	ASS			2.410550 GH
10 dBm				M2[1]		-54.77 dBm
20 0011					M1 .	2.390000 GHz
0 dBm					The second	C 19 C 10
				6		
-10 dBm		-				
					1 14	
-20 dBm					+ +	
				M3	1 1	
-30 dBm		-		1	-	$\rightarrow$
AC DTC PMC				/	1 1	
.40 DIS_RMS				/		
FO dow						
-50 dBm-			M2			
60 d8m		-				
-00 UBIII-						
-70 dBm		2				
yo dom						
CF 2.39 GHz			691 pts			Span 100.0 MHz
larker						
Type   Ref   Tr	c X-valu	e	Y-value	Function	Functio	on Result
M1	1 2.41	055 GHz	0.95 dBm			
M2	1 2	.39 GHz	-54.77 dBm			
M3	1	2.4 GHz	-29.38 dBm			

Date: 22.MAY.2020 05:40:33