

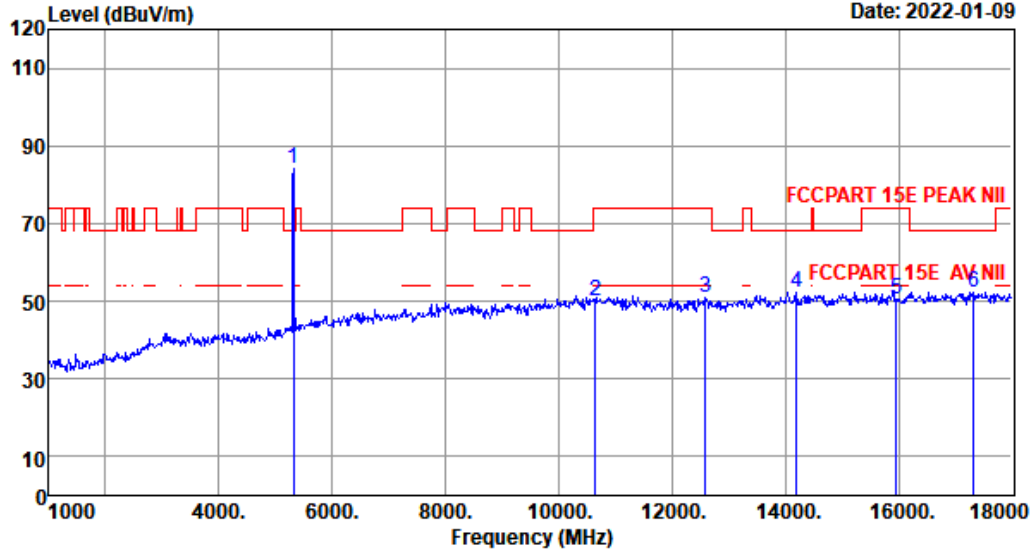
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Data: 69

File: \\EMC-966-1\\test data\\2022\\RF\\G\\GAO SHENG DAI\\WKCT27M2501.EM6 (190)

Date: 2022-01-09



Site no. : 1# 966 Chamber Data no. : 69
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:22.8';Humi:53%;Press:101.52kPa
 Engineer : JBR
 EUT : WIFI+BT Module
 Power : DC 3.3V
 M/N : WKCT27M2501
 Test Mode : IEEE 802.11n HT20 TX 5320MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5320.00	32.50	3.60	34.57	82.55	84.08	68.20	-15.88	Peak
2	10640.00	39.54	6.04	34.39	38.79	49.98	74.00	24.02	Peak
3	12594.00	39.60	6.22	34.56	39.68	50.94	74.00	23.06	Peak
4	14192.00	41.06	6.67	34.36	38.88	52.25	68.20	15.95	Peak
5	15960.00	39.84	6.88	34.21	38.08	50.59	74.00	23.41	Peak
6	17320.00	43.48	7.74	34.37	35.59	52.44	68.20	15.76	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

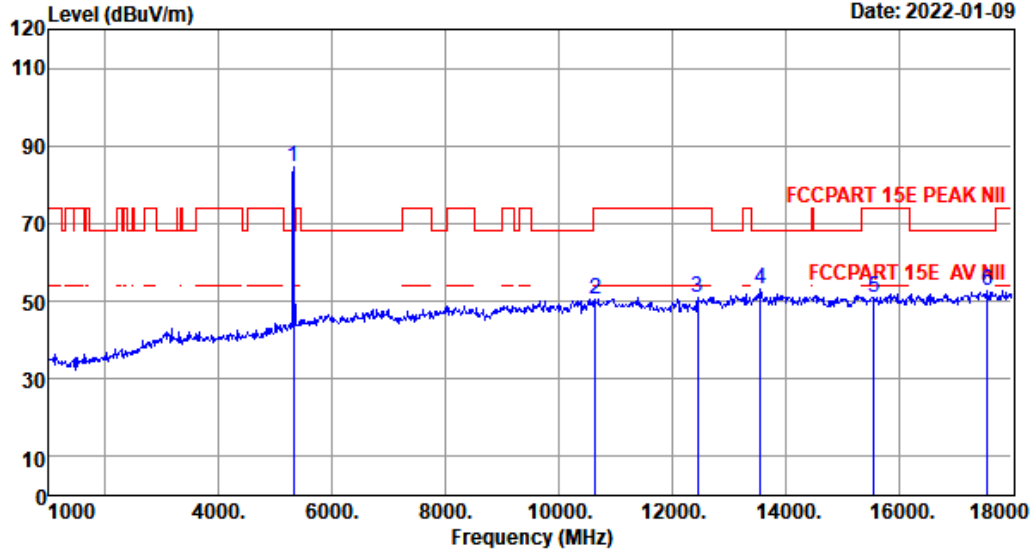
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File: \\EMC-966-1\\test data\\2022\\RF\\G\\GAO SHENG DAI\\WKCT27M2501.EM6 (190)

Date: 2022-01-09



Site no. : 1# 966 Chamber Data no. : 70
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:22.8';Humi:53%;Press:101.52kPa
 Engineer : JBR
 EUT : WIFI+BT Module
 Power : DC 3.3V
 M/N : WKCT27M2501
 Test Mode : IEEE 802.11n HT20 TX 5320MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5320.00	32.50	3.60	34.57	83.25	84.78	68.20	-16.58	Peak
2	10640.00	39.54	6.04	34.39	39.07	50.26	74.00	23.74	Peak
3	12458.00	39.67	6.19	34.62	39.61	50.85	74.00	23.15	Peak
4	13563.00	40.35	6.36	34.34	40.62	52.99	68.20	15.21	Peak
5	15570.00	40.27	6.50	34.37	38.47	50.87	74.00	23.13	Peak
6	17575.00	45.51	7.96	34.34	33.73	52.86	68.20	15.34	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

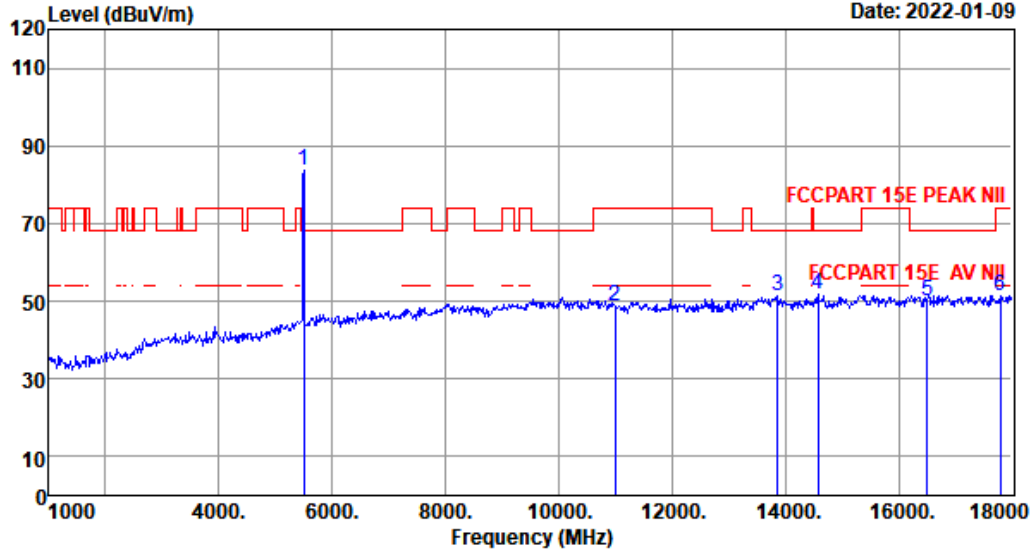
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Date: 2022-01-09



Site no. : 1# 966 Chamber Data no. : 71
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:22.8';Humi:53%;Press:101.52kPa
 Engineer : JBR
 EUT : WIFI+BT Module
 Power : DC 3.3V
 M/N : WKCT27M2501
 Test Mode : IEEE 802.11n HT20 TX 5500MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5500.00	32.90	3.71	34.50	81.49	83.60	68.20	-15.40	Peak
2	11000.00	39.90	6.11	34.50	37.34	48.85	74.00	25.15	Peak
3	13869.00	40.87	6.48	34.31	38.14	51.18	68.20	17.02	Peak
4	14583.00	40.98	6.89	34.47	38.34	51.74	68.20	16.46	Peak
5	16500.00	40.36	7.12	34.30	36.72	49.90	68.20	18.30	Peak
6	17796.00	47.27	8.11	34.32	30.29	51.35	74.00	22.65	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

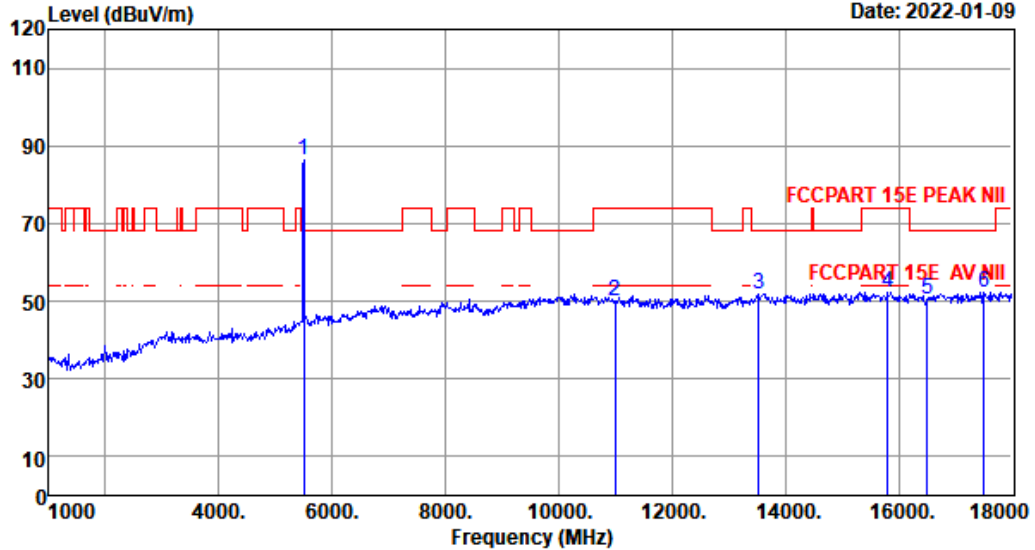
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Data: 72

File: \\EMC-966-1\\test data\\2022\\RF\\G\\GAO SHENG DAI\\WKCT27M2501.EM6 (190)

Date: 2022-01-09



Site no. : 1# 966 Chamber Data no. : 72
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:22.8';Humi:53%;Press:101.52kPa
 Engineer : JBR
 EUT : WIFI+BT Module
 Power : DC 3.3V
 M/N : WKCT27M2501
 Test Mode : IEEE 802.11n HT20 TX 5500MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5500.00	32.90	3.71	34.50	84.45	86.56	68.20	-18.36	Peak
2	11000.00	39.90	6.11	34.50	38.31	49.82	74.00	24.18	Peak
3	13529.00	40.29	6.34	34.35	39.59	51.87	68.20	16.33	Peak
4	15807.00	40.01	6.73	34.28	39.74	52.20	74.00	21.80	Peak
5	16500.00	40.36	7.12	34.30	37.37	50.55	68.20	17.65	Peak
6	17507.00	44.97	7.92	34.35	33.66	52.20	68.20	16.00	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

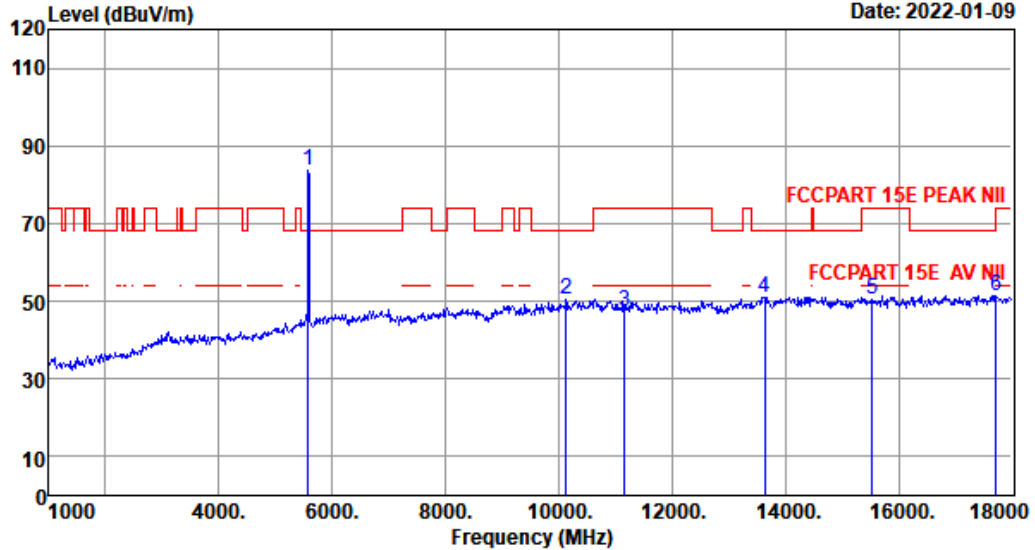
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File: \\EMC-966-1\\test data\\2022\\RF\\G\\GAO SHENG DA\\WKCT27M2501.EM6 (190)

Date: 2022-01-09



Site no. : 1# 966 Chamber Data no. : 73
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:22.8';Humi:53%;Press:101.52kPa
 Engineer : JBR
 EUT : WIFI+BT Module
 Power : DC 3.3V
 M/N : WKCT27M2501
 Test Mode : IEEE 802.11n HT20 TX 5580MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5580.00	32.89	3.79	34.47	81.47	83.68	68.20	-15.48	Peak
2	10129.00	39.04	5.92	34.24	39.82	50.54	68.20	17.66	Peak
3	11160.00	39.90	6.12	34.55	36.05	47.52	74.00	26.48	Peak
4	13631.00	40.47	6.38	34.34	38.53	51.04	68.20	17.16	Peak
5	15540.00	40.31	6.46	34.39	38.27	50.65	74.00	23.35	Peak
6	17728.00	46.73	8.06	34.33	31.08	51.54	74.00	22.46	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

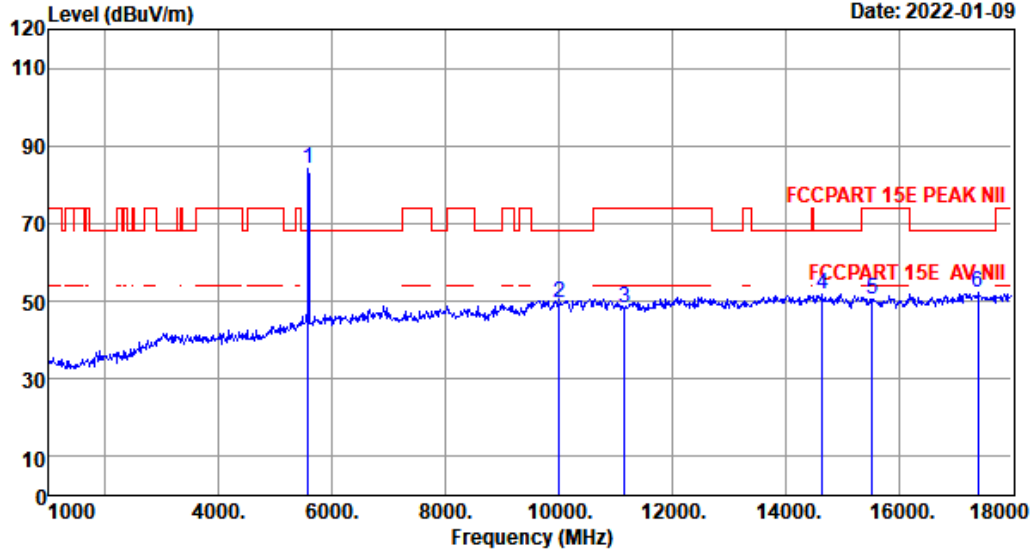
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Date: 2022-01-09



Site no. : 1# 966 Chamber Data no. : 74
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:22.8';Humi:53%;Press:101.52kPa
 Engineer : JBR
 EUT : WIFI+BT Module
 Power : DC 3.3V
 M/N : WKCT27M2501
 Test Mode : IEEE 802.11n HT20 TX 5580MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5580.00	32.89	3.79	34.47	82.00	84.21	68.20	-16.01	Peak
2	10010.00	38.92	5.89	34.21	38.80	49.40	68.20	18.80	Peak
3	11160.00	39.90	6.12	34.55	36.74	48.21	74.00	25.79	Peak
4	14651.00	40.97	6.87	34.49	38.40	51.75	68.20	16.45	Peak
5	15540.00	40.31	6.46	34.39	38.08	50.46	74.00	23.54	Peak
6	17405.00	44.15	7.82	34.36	34.43	52.04	68.20	16.16	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

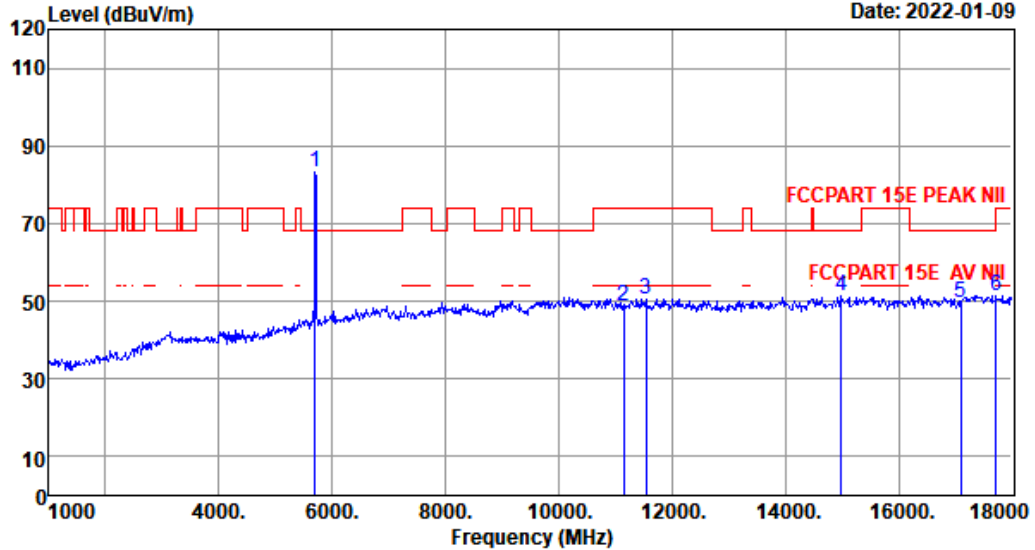
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Data: 75

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Date: 2022-01-09



Site no. : 1# 966 Chamber Data no. : 75
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:22.8';Humi:53%;Press:101.52kPa
 Engineer : JBR
 EUT : WIFI+BT Module
 Power : DC 3.3V
 M/N : WKCT27M2501
 Test Mode : IEEE 802.11n HT20 TX 5700MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5700.00	32.86	3.94	34.42	80.86	83.24	68.20	-15.04	Peak
2	11140.00	39.90	6.12	34.54	37.45	48.93	74.00	25.07	Peak
3	11540.00	39.90	6.13	34.66	39.24	50.61	74.00	23.39	Peak
4	14991.00	40.90	6.81	34.59	38.29	51.41	68.20	16.79	Peak
5	17100.00	41.71	7.52	34.39	34.96	49.80	68.20	18.40	Peak
6	17728.00	46.73	8.06	34.33	31.00	51.46	74.00	22.54	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

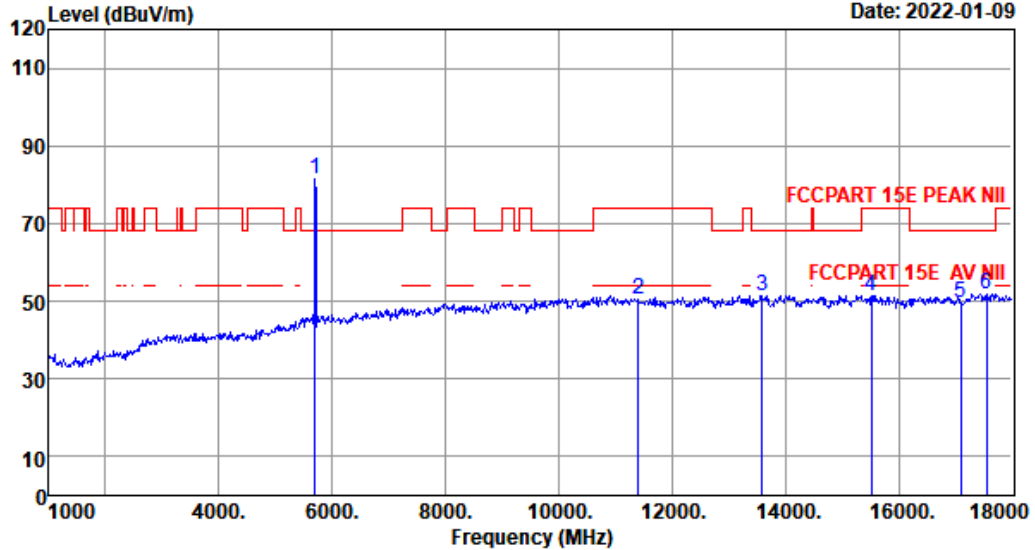
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Data: 76

File: \\EMC-966-1\\test data\\2022\\RF\\G\\GAO SHENG DAI\\WKCT27M2501.EM6 (190)

Date: 2022-01-09



Site no. : 1# 966 Chamber Data no. : 76
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:22.8';Humi:53%;Press:101.52kPa
 Engineer : JBR
 EUT : WIFI+BT Module
 Power : DC 3.3V
 M/N : WKCT27M2501
 Test Mode : IEEE 802.11n HT20 TX 5700MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5700.00	32.86	3.94	34.42	79.09	81.47	68.20	-13.27	Peak
2	11400.00	39.90	6.14	34.62	38.84	50.26	74.00	23.74	Peak
3	13597.00	40.41	6.37	34.34	39.13	51.57	68.20	16.63	Peak
4	15518.00	40.33	6.45	34.39	39.12	51.51	74.00	22.49	Peak
5	17100.00	41.71	7.52	34.39	34.72	49.56	68.20	18.64	Peak
6	17558.00	45.37	7.95	34.34	32.90	51.88	68.20	16.32	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

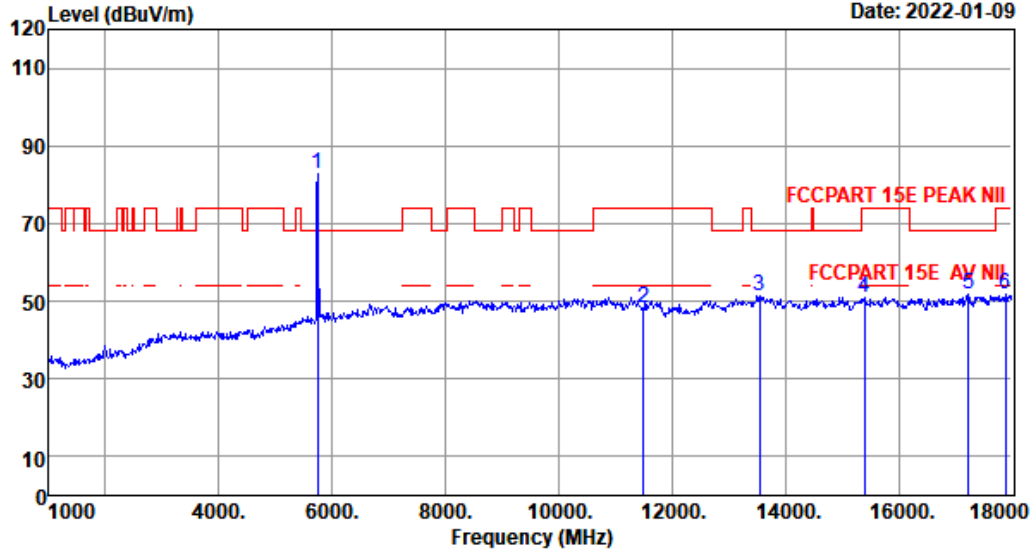
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Data: 77

File: \\EMC-966-1\\test data\\2022\\RF\\G\\GAO SHENG DAI\\WKCT27M2501.EM6 (190)

Date: 2022-01-09



Site no. : 1# 966 Chamber Data no. : 77
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:22.8';Humi:53%;Press:101.52kPa
 Engineer : JBR
 EUT : WIFI+BT Module
 Power : DC 3.3V
 M/N : WKCT27M2501
 Test Mode : IEEE 802.11n HT20 TX 5745MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5745.00	32.85	4.00	34.40	80.49	82.94	68.20	-14.74	Peak
2	11490.00	39.90	6.15	34.65	36.94	48.34	74.00	25.66	Peak
3	13546.00	40.32	6.35	34.35	39.00	51.32	68.20	16.88	Peak
4	15399.00	40.46	6.51	34.44	38.46	50.99	74.00	23.01	Peak
5	17235.00	42.80	7.65	34.38	35.59	51.66	68.20	16.54	Peak
6	17881.00	47.95	8.16	34.31	29.88	51.68	74.00	22.32	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

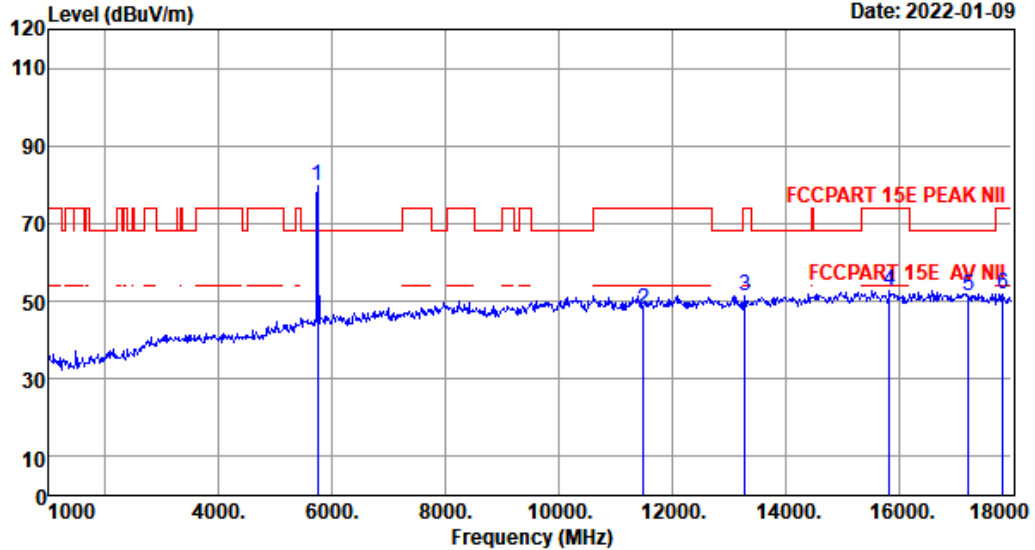
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Data: 78

File: \\EMC-966-1\\test data\\2022\\RF\\G\\GAO SHENG DA\\WKCT27M2501.EM6 (190)

Date: 2022-01-09



Site no. : 1# 966 Chamber Data no. : 78
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:22.8';Humi:53%;Press:101.52kPa
 Engineer : JBR
 EUT : WIFI+BT Module
 Power : DC 3.3V
 M/N : WKCT27M2501
 Test Mode : IEEE 802.11n HT20 TX 5745MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5745.00	32.85	4.00	34.40	77.17	79.62	68.20	-11.42	Peak
2	11490.00	39.90	6.15	34.65	36.43	47.83	74.00	26.17	Peak
3	13291.00	39.89	6.31	34.37	39.65	51.48	74.00	22.52	Peak
4	15841.00	39.97	6.76	34.26	40.27	52.74	74.00	21.26	Peak
5	17235.00	42.80	7.65	34.38	35.46	51.53	68.20	16.67	Peak
6	17847.00	47.68	8.14	34.32	30.37	51.87	74.00	22.13	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

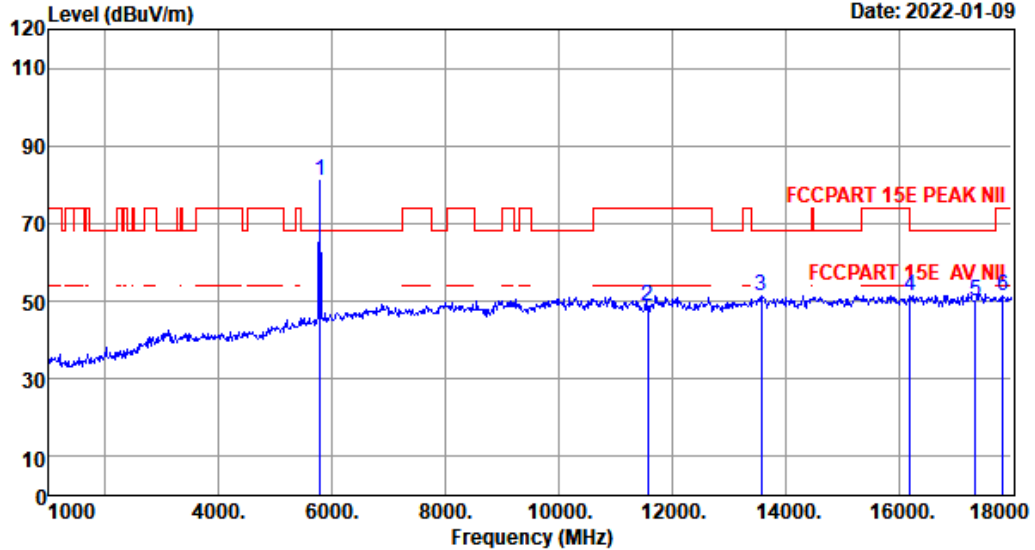
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File: \\EMC-966-1\\test data\\2022\\RF\\G\\GAO SHENG DAI\\WKCT27M2501.EM6 (190)

Date: 2022-01-09



Site no. : 1# 966 Chamber Data no. : 79
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:22.8';Humi:53%;Press:101.52kPa
 Engineer : JBR
 EUT : WIFI+BT Module
 Power : DC 3.3V
 M/N : WKCT27M2501
 Test Mode : IEEE 802.11n HT20 TX 5785MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5785.00	32.84	4.05	34.39	78.32	80.82	68.20	-12.62	Peak
2	11570.00	39.90	6.12	34.67	37.20	48.55	74.00	25.45	Peak
3	13580.00	40.38	6.36	34.34	38.85	51.25	68.20	16.95	Peak
4	16198.00	40.02	6.99	34.24	38.50	51.27	74.00	22.73	Peak
5	17355.00	43.75	7.77	34.36	33.02	50.18	68.20	18.02	Peak
6	17847.00	47.68	8.14	34.32	30.03	51.53	74.00	22.47	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

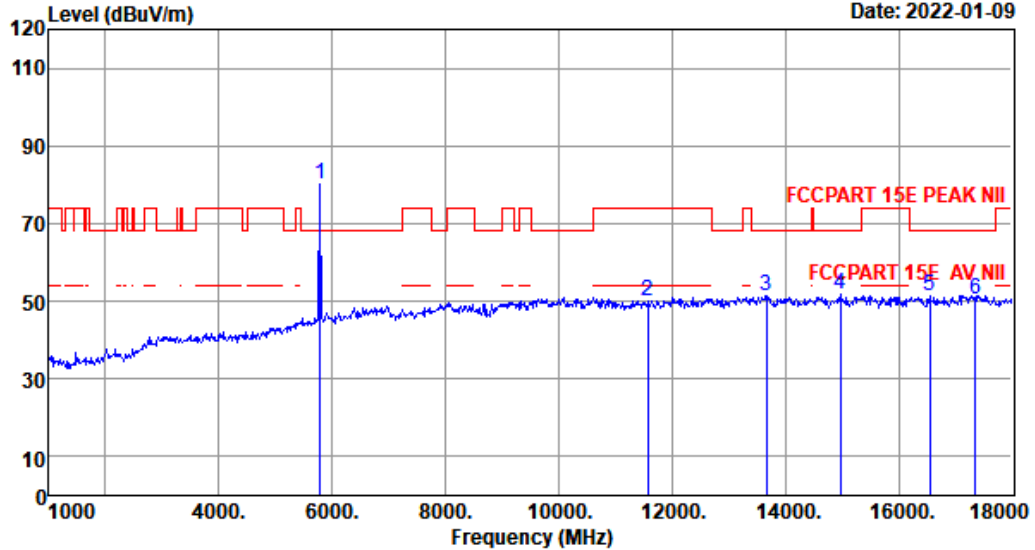
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Data: 80

File: \\EMC-966-1\\test data\\2022\\RF\\G\\GAO SHENG DAI\\WKCT27M2501.EM6 (190)

Date: 2022-01-09



Site no. : 1# 966 Chamber Data no. : 80
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:22.8';Humi:53%;Press:101.52kPa
 Engineer : JBR
 EUT : WIFI+BT Module
 Power : DC 3.3V
 M/N : WKCT27M2501
 Test Mode : IEEE 802.11n HT20 TX 5785MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5785.00	32.84	4.05	34.39	77.58	80.08	68.20	-11.88	Peak
2	11570.00	39.90	6.12	34.67	38.57	49.92	74.00	24.08	Peak
3	13665.00	40.52	6.40	34.33	38.90	51.49	68.20	16.71	Peak
4	14974.00	40.91	6.82	34.59	38.49	51.63	68.20	16.57	Peak
5	16555.00	40.42	7.15	34.31	37.94	51.20	68.20	17.00	Peak
6	17355.00	43.75	7.77	34.36	33.48	50.64	68.20	17.56	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

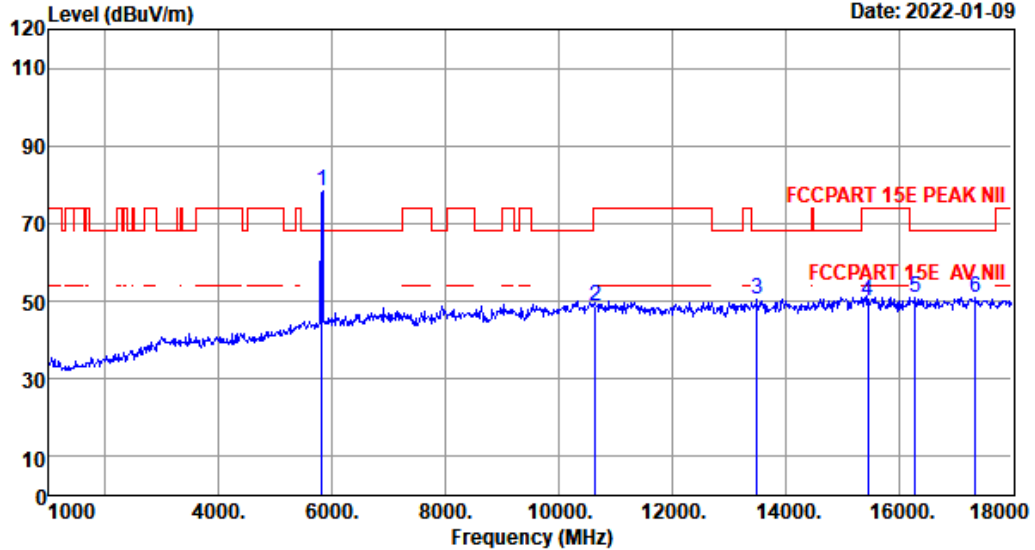
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Data: 81

File: \\EMC-966-1\\test data\\2022\\RF\\G\\GAO SHENG DAI\\WKCT27M2501.EM6 (190)

Date: 2022-01-09



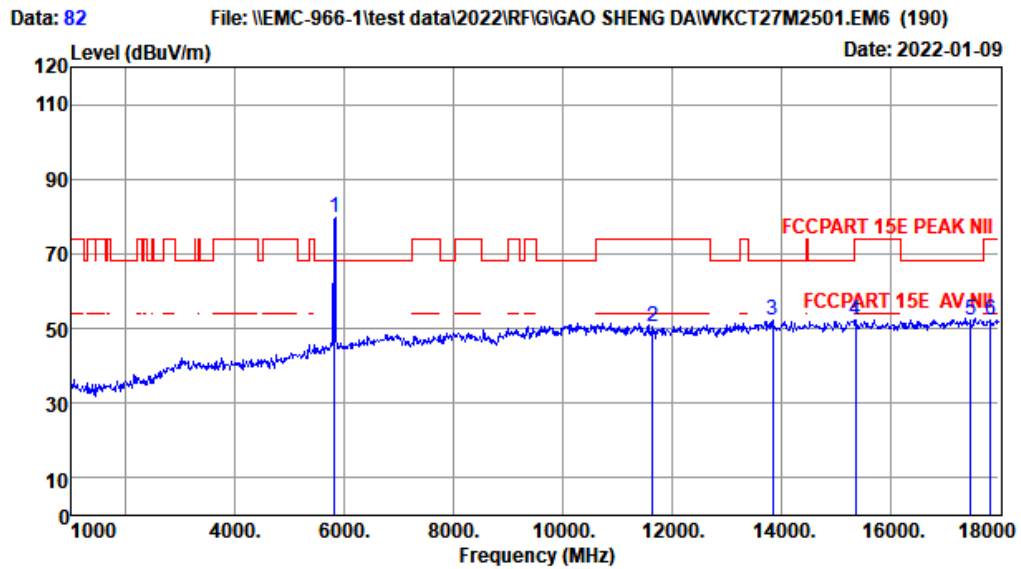
Site no. : 1# 966 Chamber Data no. : 81
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:22.8';Humi:53%;Press:101.52kPa
 Engineer : JBR
 EUT : WIFI+BT Module
 Power : DC 3.3V
 M/N : WKCT27M2501
 Test Mode : IEEE 802.11n HT20 TX 5825MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5825.00	32.83	4.11	34.37	75.72	78.29	68.20	-10.09	Peak
2	10650.00	39.56	6.05	34.40	37.61	48.82	74.00	25.18	Peak
3	13495.00	40.24	6.33	34.35	38.17	50.39	68.20	17.81	Peak
4	15460.00	40.39	6.46	34.41	37.81	50.25	74.00	23.75	Peak
5	16300.00	40.14	7.04	34.26	37.90	50.82	68.20	17.38	Peak
6	17354.00	43.75	7.77	34.36	33.61	50.77	68.20	17.43	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 1# 966 Chamber Data no. : 82
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:22.8'; Humi:53%; Press:101.52kPa
 Engineer : JBR
 EUT : WIFI+BT Module
 Power : DC 3.3V
 M/N : WKCT27M2501
 Test Mode : IEEE 802.11n HT20 TX 5825MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5825.00	32.83	4.11	34.37	77.32	79.89	68.20	-11.69	Peak
2	11650.00	39.90	6.08	34.69	39.03	50.32	74.00	23.68	Peak
3	13852.00	40.84	6.47	34.32	39.35	52.34	68.20	15.86	Peak
4	15365.00	40.50	6.53	34.46	39.58	52.15	74.00	21.85	Peak
5	17475.00	44.70	7.89	34.35	34.12	52.36	68.20	15.84	Peak
6	17847.00	47.68	8.14	34.32	30.79	52.29	74.00	21.71	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Note: The amplitude of 18GHz to 40GHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Radiated Band Edge

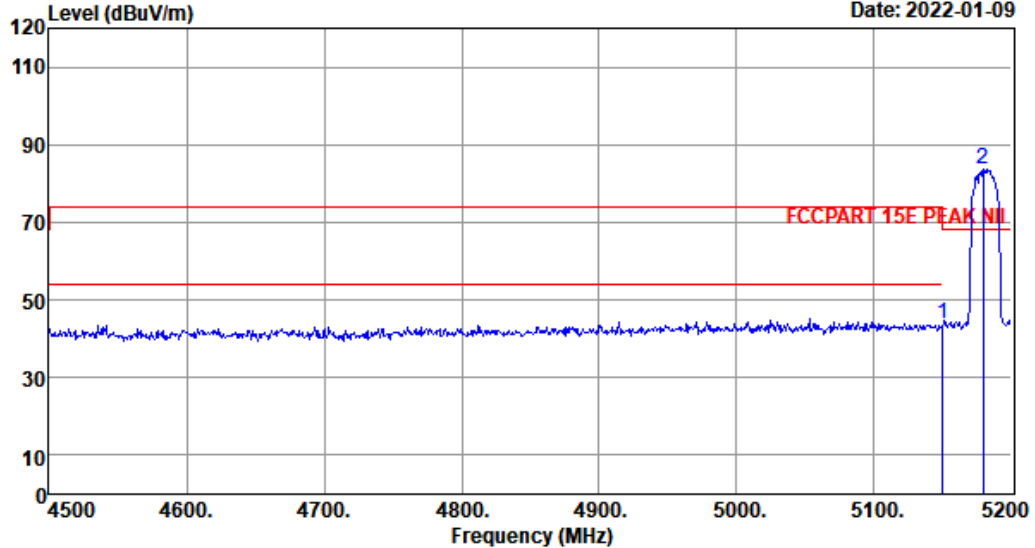
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Data: 83

File: \\EMC-966-1\\test data\\2022\\RF\\G\\GAO SHENG DA\\WKCT27M2501.EM6 (190)

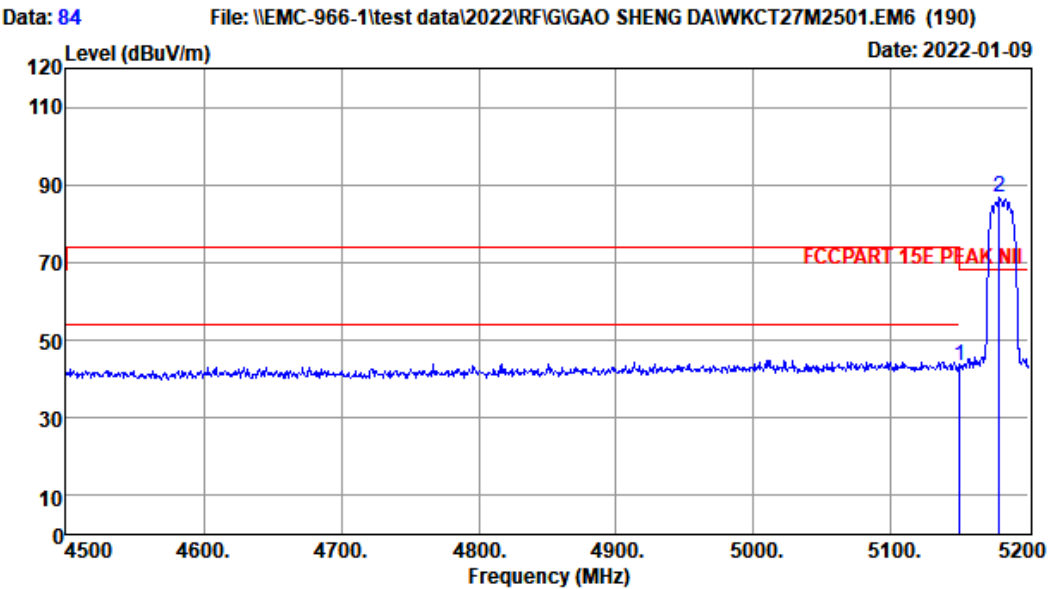
Date: 2022-01-09



Site no. : 1# 966 Chamber Data no. : 83
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:22.8';Humi:53%;Press:101.52kPa
 Engineer : JBR
 EUT : WIFI+BT Module
 Power : DC 3.3V
 M/N : WKCT27M2501
 Test Mode : IEEE 802.11n HT20 TX 5180MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	32.13	3.50	34.64	42.92	43.91	68.20	24.29	Peak
2	5179.00	32.20	3.52	34.63	82.72	83.81	68.20	-15.61	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 84
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:22.8';Humi:53%;Press:101.52kPa
Engineer : JBR
EUT : WIFI+BT Module
Power : DC 3.3V
M/N : WKCT27M2501
Test Mode : IEEE 802.11n HT20 TX 5180MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	32.13	3.50	34.64	42.38	43.37	68.20	24.83	Peak
2	5178.30	32.20	3.52	34.63	85.62	86.71	68.20	-18.51	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official
limit are not reported.

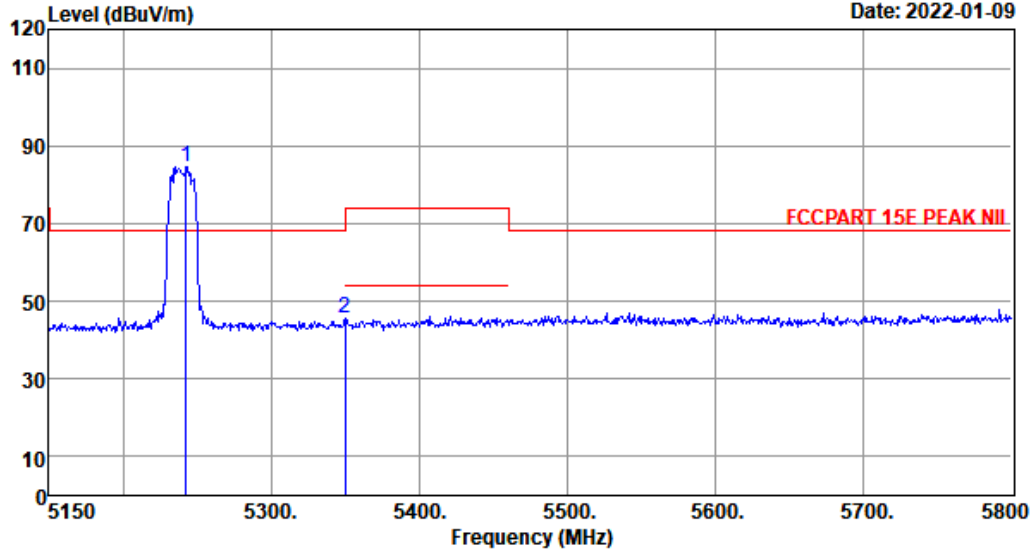
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Data: 85

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Date: 2022-01-09



Site no. : 1# 966 Chamber Data no. : 85
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:22.8';Humi:53%;Press:101.52kPa
 Engineer : JBR
 EUT : WIFI+BT Module
 Power : DC 3.3V
 M/N : WKCT27M2501
 Test Mode : IEEE 802.11n HT20 TX 5240MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5242.30	32.35	3.56	34.60	83.19	84.50	68.20	-16.30	Peak
2	5350.00	32.57	3.62	34.56	43.94	45.57	68.20	22.63	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

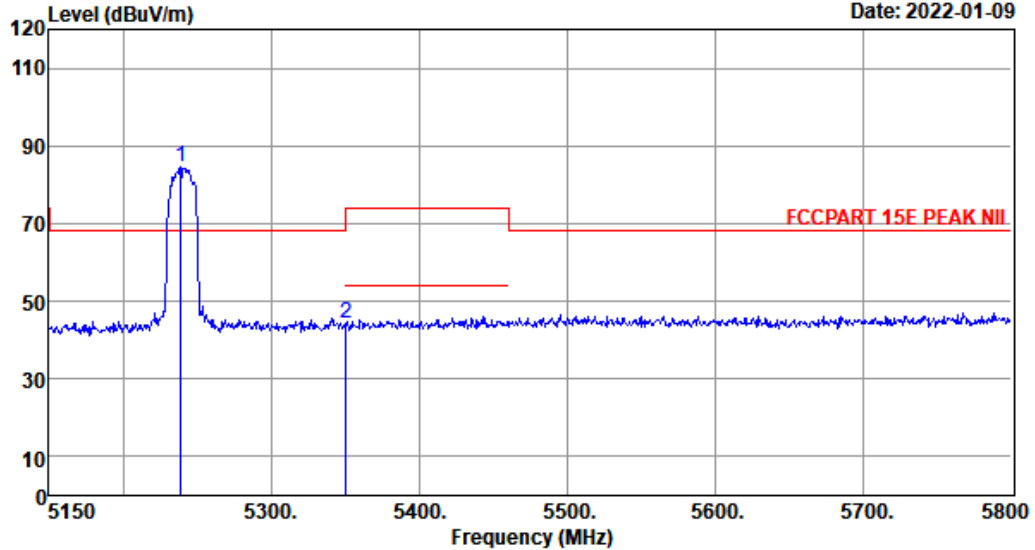
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Date: 2022-01-09



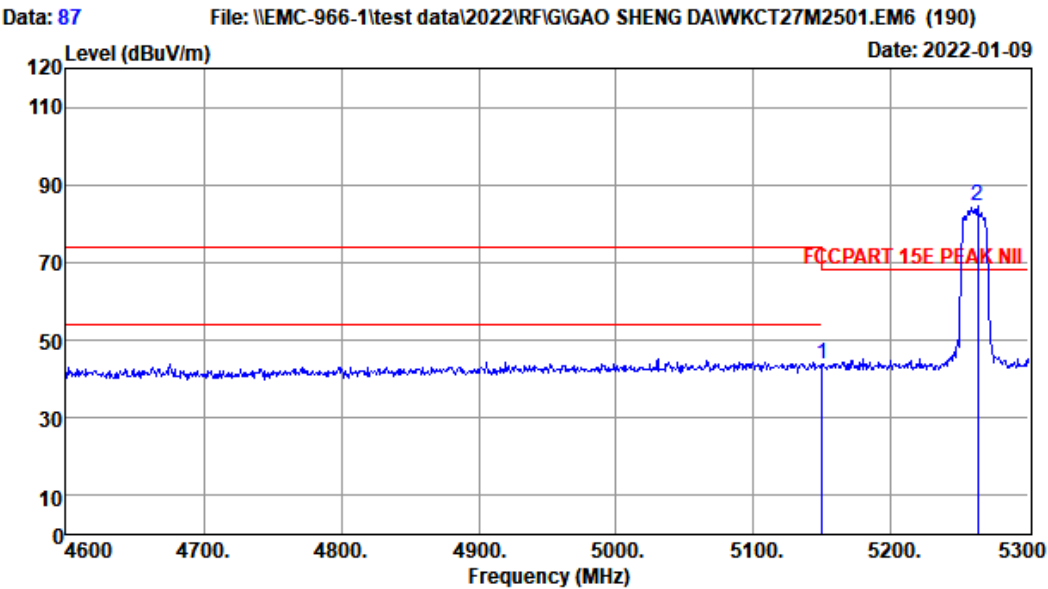
Site no. : 1# 966 Chamber Data no. : 86
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:22.8';Humi:53%;Press:101.52kPa
 Engineer : JBR
 EUT : WIFI+BT Module
 Power : DC 3.3V
 M/N : WKCT27M2501
 Test Mode : IEEE 802.11n HT20 TX 5240MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5239.05	32.31	3.55	34.61	83.34	84.59	68.20	-16.39	Peak
2	5350.20	32.57	3.62	34.56	42.84	44.47	74.00	29.53	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

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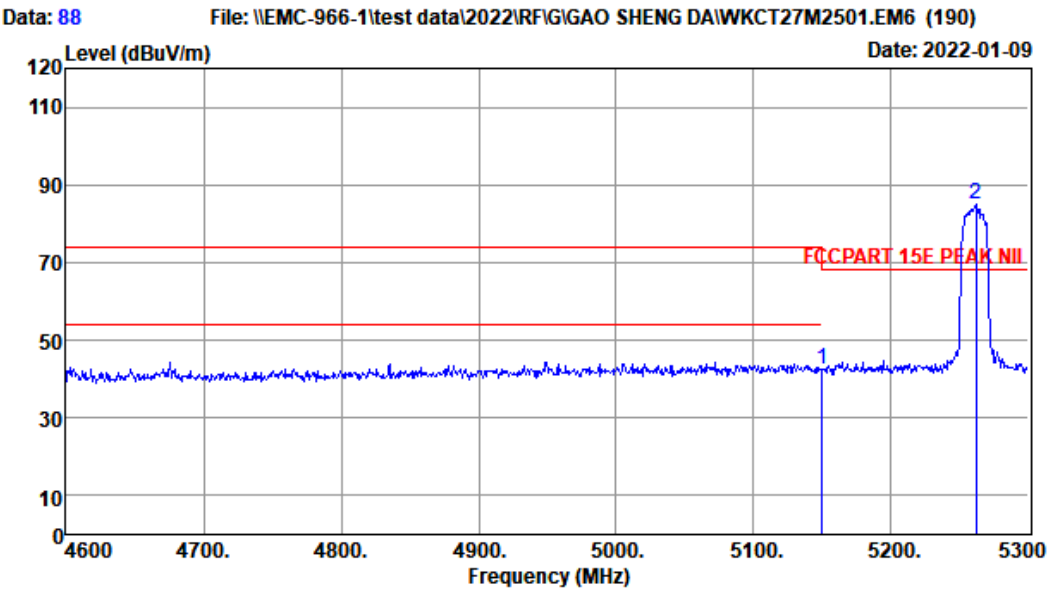
Site no. : 1# 966 Chamber Data no. : 87
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:22.8';Humi:53%;Press:101.52kPa
Engineer : JBR
EUT : WIFI+BT Module
Power : DC 3.3V
M/N : WKCT27M2501
Test Mode : IEEE 802.11n HT20 TX 5260MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	32.13	3.50	34.64	42.99	43.98	68.20	24.22	Peak
2	5262.90	32.39	3.57	34.59	83.35	84.72	68.20	-16.52	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 1# 966 Chamber Data no. : 88
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:22.8';Humi:53%;Press:101.52kPa
Engineer : JBR
EUT : WIFI+BT Module
Power : DC 3.3V
M/N : WKCT27M2501
Test Mode : IEEE 802.11n HT20 TX 5260MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	32.13	3.50	34.64	41.33	42.32	68.20	25.88	Peak
2	5261.50	32.39	3.57	34.59	83.63	85.00	68.20	-16.80	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

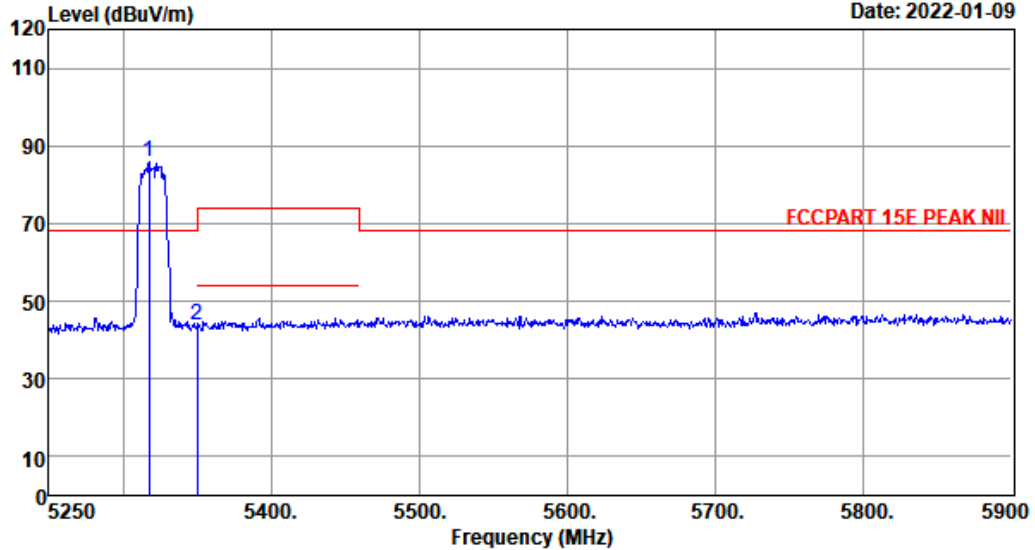
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Data: 89

File: \\EMC-966-1\\test data\\2022\\RF\\G\\GAO SHENG DAI\\WKCT27M2501.EM6 (190)

Date: 2022-01-09



Site no. : 1# 966 Chamber Data no. : 89
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:22.8';Humi:53%;Press:101.52kPa
 Engineer : JBR
 EUT : WIFI+BT Module
 Power : DC 3.3V
 M/N : WKCT27M2501
 Test Mode : IEEE 802.11n HT20 TX 5320MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5317.60	32.50	3.60	34.57	84.54	86.07	68.20	-17.87	Peak
2	5350.00	32.57	3.62	34.56	42.27	43.90	68.20	24.30	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

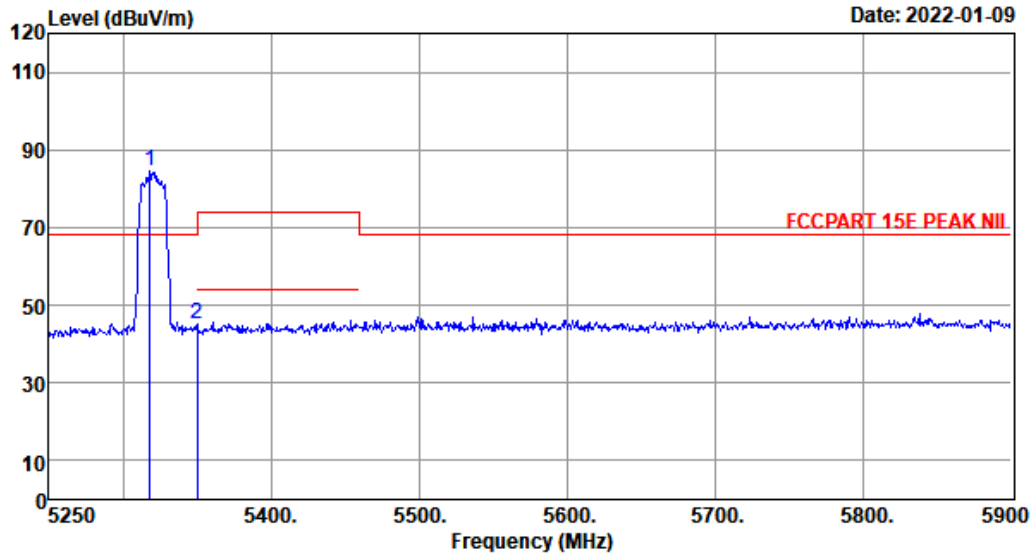
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Data: 90

File: \\EMC-966-1\\test data\\2022\\RF\\G\\GAO SHENG DAI\\WKCT27M2501.EM6 (190)

Date: 2022-01-09



Site no. : 1# 966 Chamber Data no. : 90
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:22.8';Humi:53%;Press:101.52kPa
 Engineer : JBR
 EUT : WIFI+BT Module
 Power : DC 3.3V
 M/N : WKCT27M2501
 Test Mode : IEEE 802.11n HT20 TX 5320MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5318.25	32.50	3.60	34.57	83.02	84.55	68.20	-16.35	Peak
2	5350.00	32.57	3.62	34.56	43.36	44.99	68.20	23.21	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

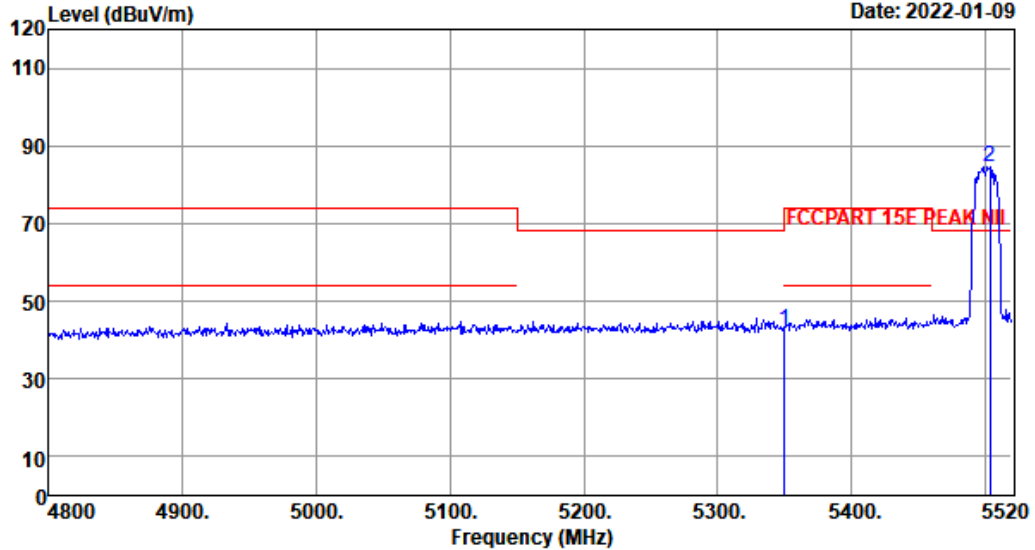
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Data: 91

File: \\EMC-966-1\\test data\\2022\\RF\\G\\GAO SHENG DAI\\WKCT27M2501.EM6 (190)

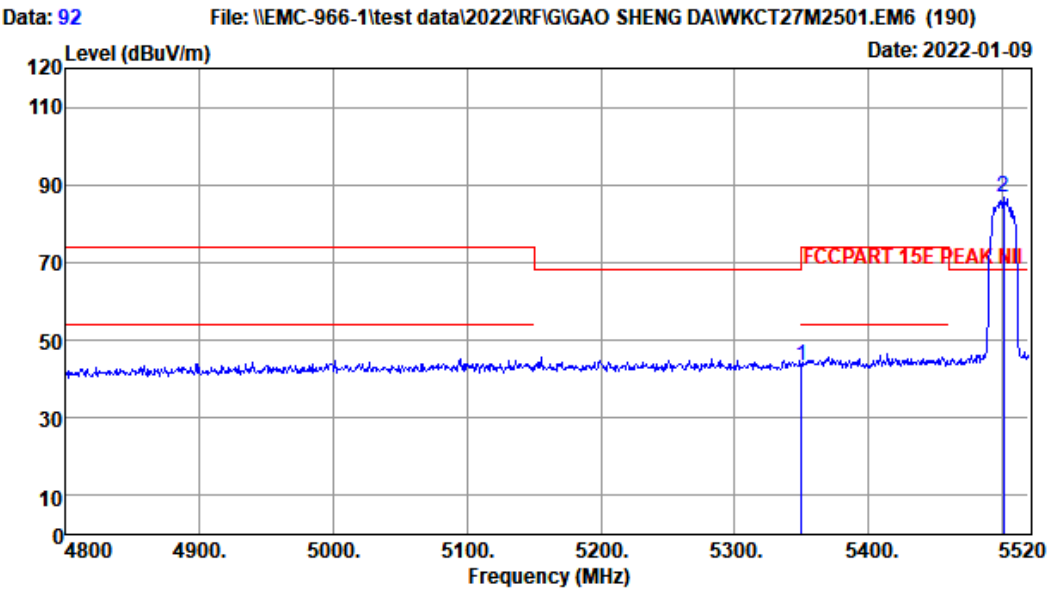
Date: 2022-01-09



Site no. : 1# 966 Chamber Data no. : 91
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:22.8';Humi:53%;Press:101.52kPa
 Engineer : JBR
 EUT : WIFI+BT Module
 Power : DC 3.3V
 M/N : WKCT27M2501
 Test Mode : IEEE 802.11n HT20 TX 5500MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5350.00	32.57	3.62	34.56	41.04	42.67	68.20	25.53	Peak
2	5503.44	32.90	3.71	34.50	82.45	84.56	68.20	-16.36	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 92
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:22.8';Humi:53%;Press:101.52kPa
Engineer : JBR
EUT : WIFI+BT Module
Power : DC 3.3V
M/N : WKCT27M2501
Test Mode : IEEE 802.11n HT20 TX 5500MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5350.00	32.57	3.62	34.56	41.65	43.28	68.20	24.92	Peak
2	5501.28	32.90	3.71	34.50	84.68	86.79	68.20	-18.59	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official
limit are not reported.

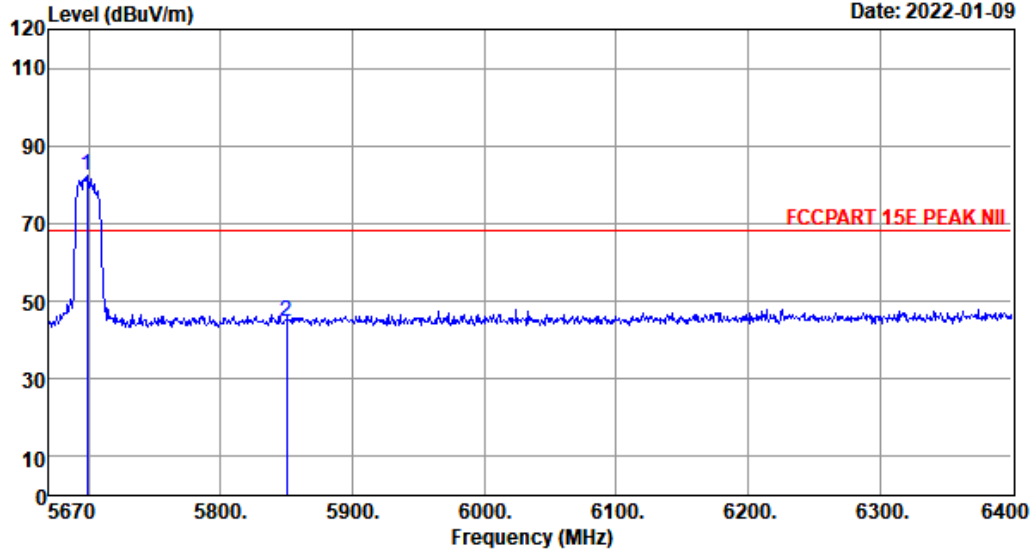
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Data: 93

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Date: 2022-01-09



Site no. : 1# 966 Chamber Data no. : 93
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:22.8';Humi:53%;Press:101.52kPa
 Engineer : JBR
 EUT : WIFI+BT Module
 Power : DC 3.3V
 M/N : WKCT27M2501
 Test Mode : IEEE 802.11n HT20 TX 5700MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5699.20	32.86	3.94	34.42	80.12	82.50	68.20	-14.30	Peak
2	5850.00	32.83	4.13	34.36	42.15	44.75	68.20	23.45	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

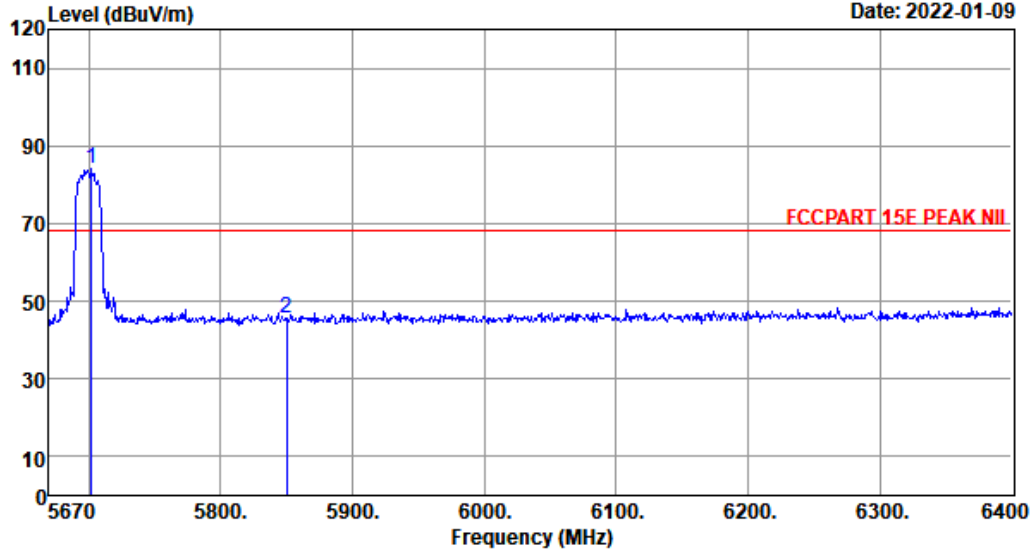
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Data: 94

File: \\EMC-966-1\\test data\\2022\\RF\\G\\GAO SHENG DAI\\WKCT27M2501.EM6 (190)

Date: 2022-01-09



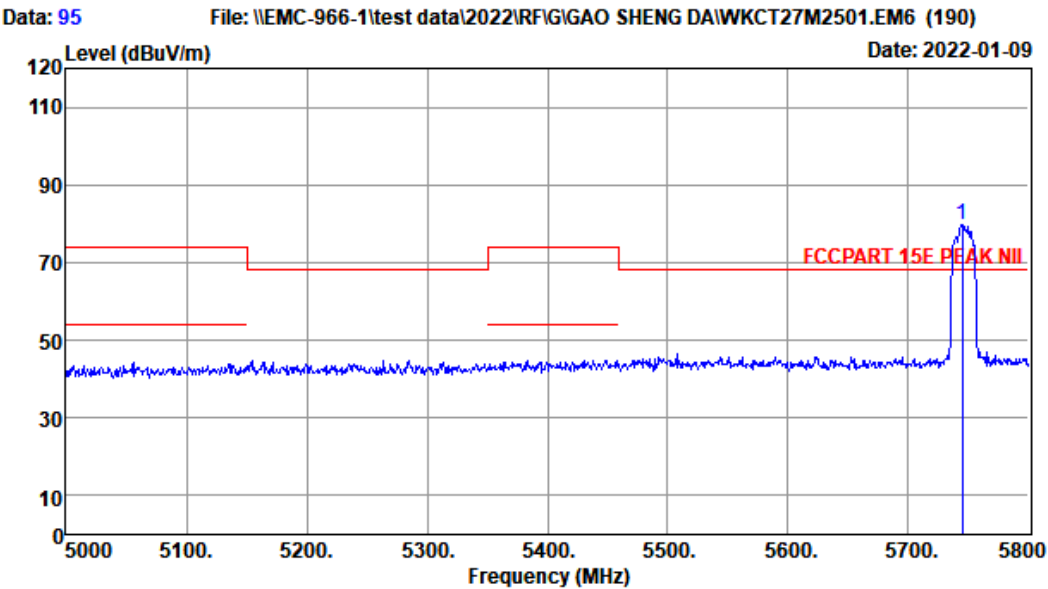
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 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:22.8';Humi:53%;Press:101.52kPa
 Engineer : JBR
 EUT : WIFI+BT Module
 Power : DC 3.3V
 M/N : WKCT27M2501
 Test Mode : IEEE 802.11n HT20 TX 5700MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5702.12	32.86	3.96	34.42	81.58	83.98	68.20	-15.78	Peak
2	5850.00	32.83	4.13	34.36	43.17	45.77	68.20	22.43	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 1# 966 Chamber Data no. : 95
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:22.8';Humi:53%;Press:101.52kPa
Engineer : JBR
EUT : WIFI+BT Module
Power : DC 3.3V
M/N : WKCT27M2501
Test Mode : IEEE 802.11n HT20 TX 5745MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5744.80	32.85	4.00	34.40	77.27	79.72	68.20	-11.52	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

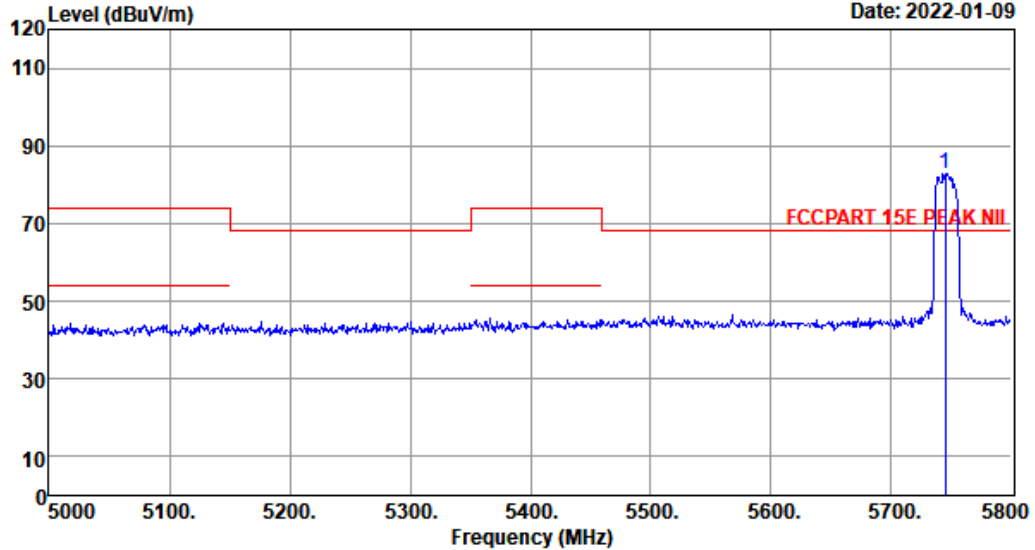
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Data: 96

File: \\EMC-966-1\\test data\\2022\\RF\\G\\GAO SHENG DAI\\WKCT27M2501.EM6 (190)

Date: 2022-01-09



Site no. : 1# 966 Chamber Data no. : 96
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:22.8';Humi:53%;Press:101.52kPa
 Engineer : JBR
 EUT : WIFI+BT Module
 Power : DC 3.3V
 M/N : WKCT27M2501
 Test Mode : IEEE 802.11n HT20 TX 5745MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5744.80	32.85	4.00	34.40	80.56	83.01	68.20	-14.81	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

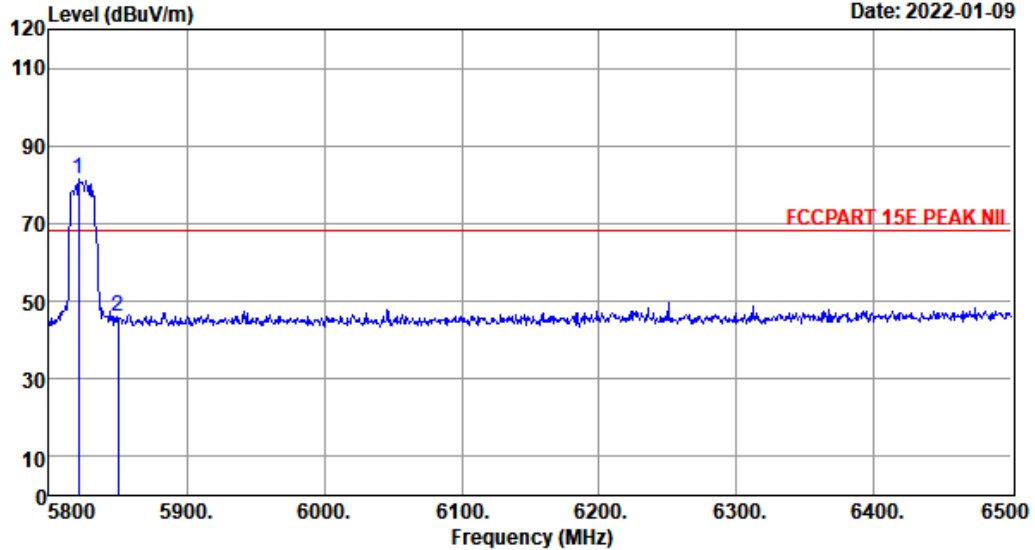
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Data: 97

File: \\EMC-966-1\\test data\\2022\\RF\\G\\GAO SHENG DAI\\WKCT27M2501.EM6 (190)

Date: 2022-01-09



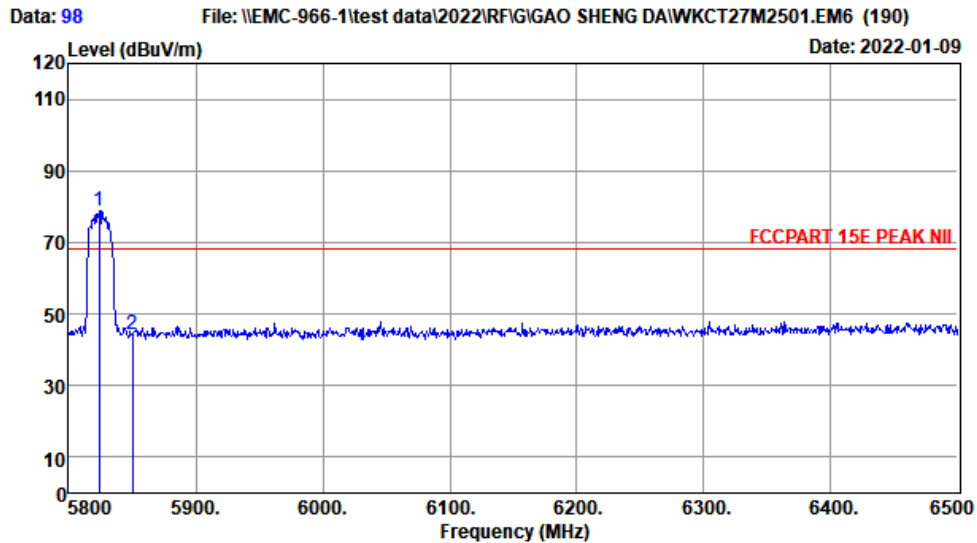
Site no. : 1# 966 Chamber Data no. : 97
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:22.8';Humi:53%;Press:101.52kPa
 Engineer : JBR
 EUT : WIFI+BT Module
 Power : DC 3.3V
 M/N : WKCT27M2501
 Test Mode : IEEE 802.11n HT20 TX 5825MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5821.70	32.83	4.11	34.37	78.99	81.56	68.20	-13.36	Peak
2	5850.00	32.83	4.13	34.36	43.27	45.87	68.20	22.33	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 1# 966 Chamber Data no. : 98
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:22.8';Humi:53%;Press:101.52kPa
 Engineer : JBR
 EUT : WIFI+BT Module
 Power : DC 3.3V
 M/N : WKCT27M2501
 Test Mode : IEEE 802.11n HT20 TX 5825MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5823.80	32.83	4.11	34.37	76.22	78.79	68.20	-10.59	Peak
2	5850.00	32.83	4.13	34.36	41.81	44.41	68.20	23.79	Peak

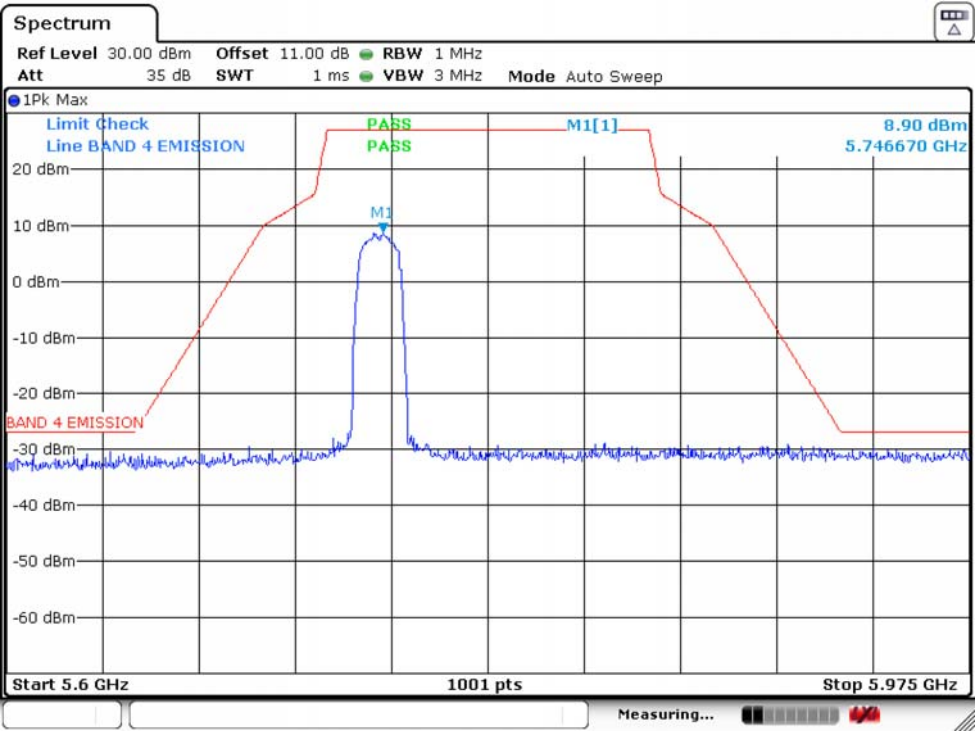
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Note:

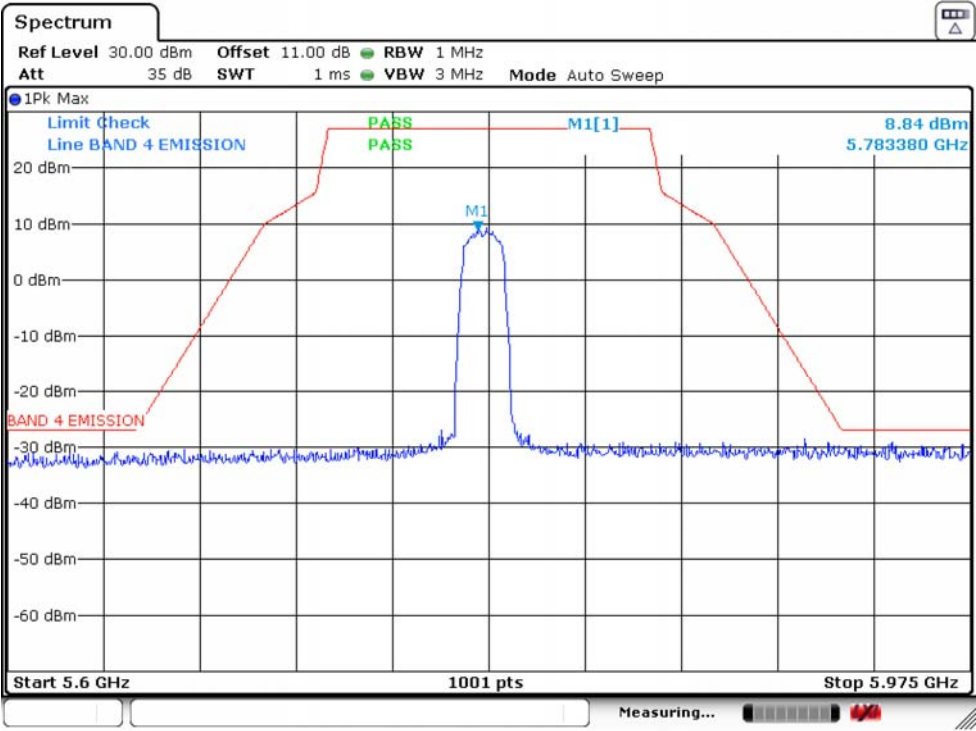
1. The amplitude of 18GHz to 40GHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
2. All test mode had been pre-test, only Low/Middle/High Channel of the worst case modulation mode was reported

Band Edge

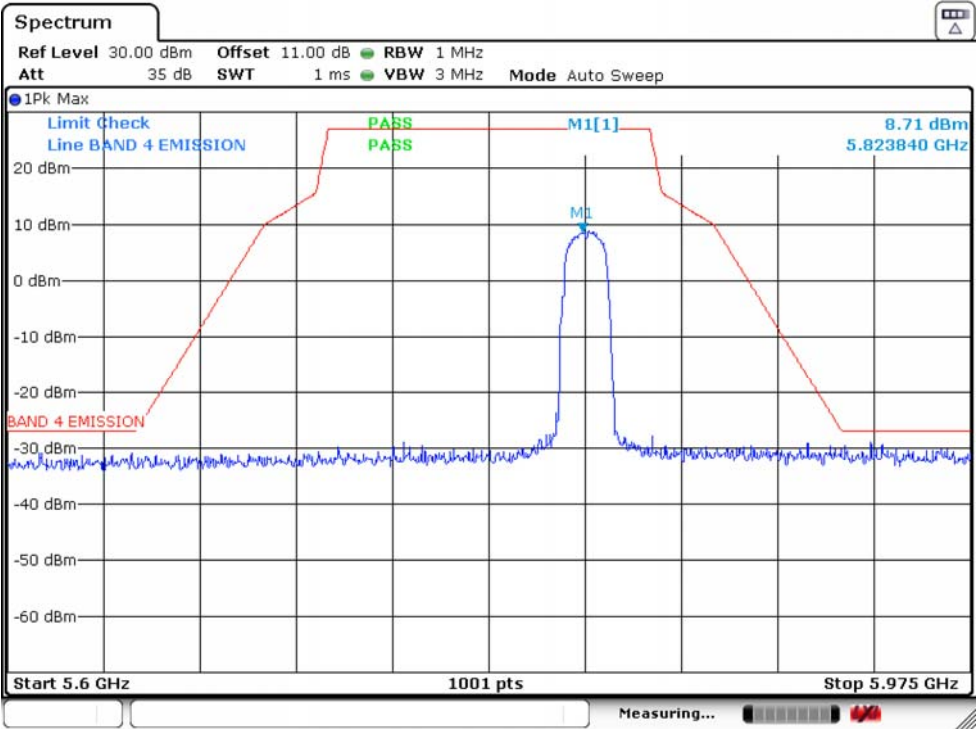
IEEE 802.11a 5745



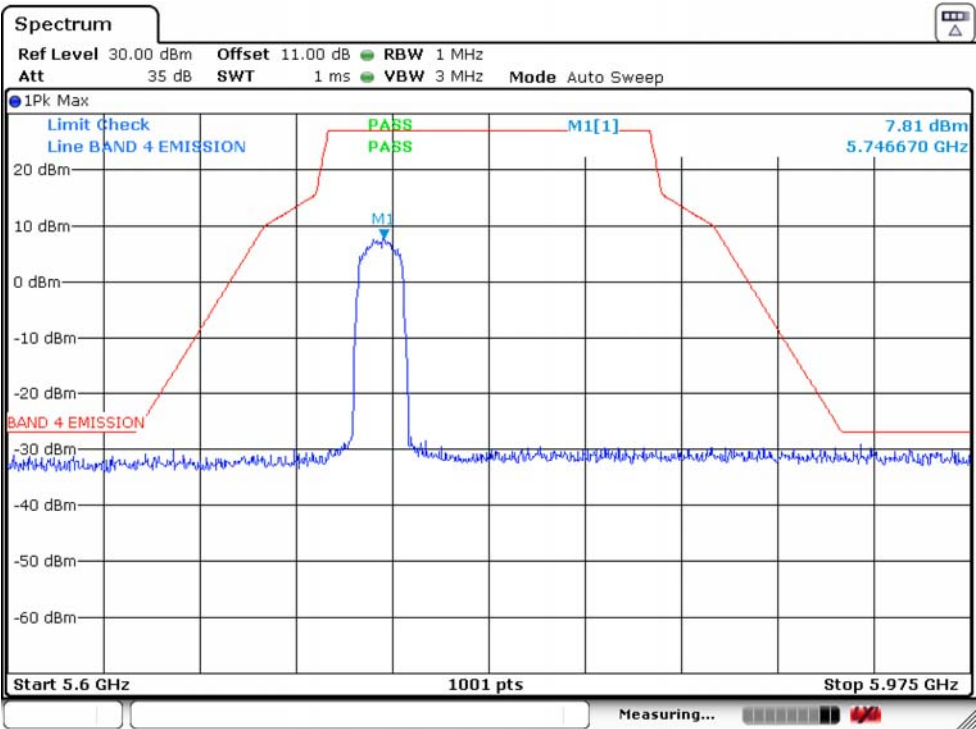
IEEE 802.11a 5785



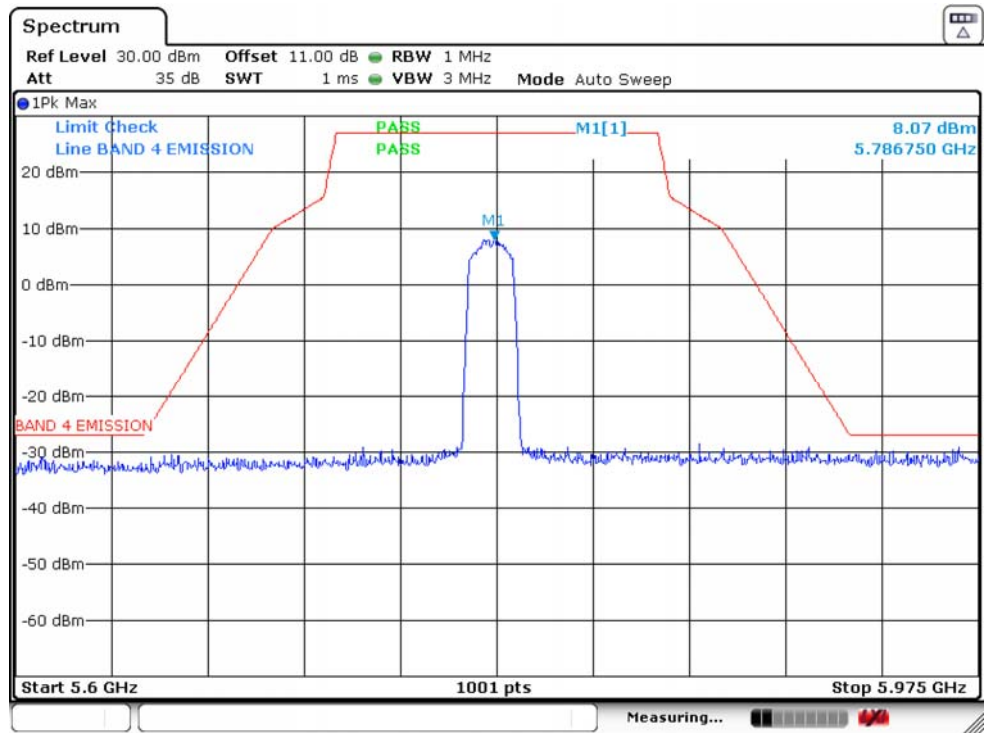
IEEE 802.11a 5825



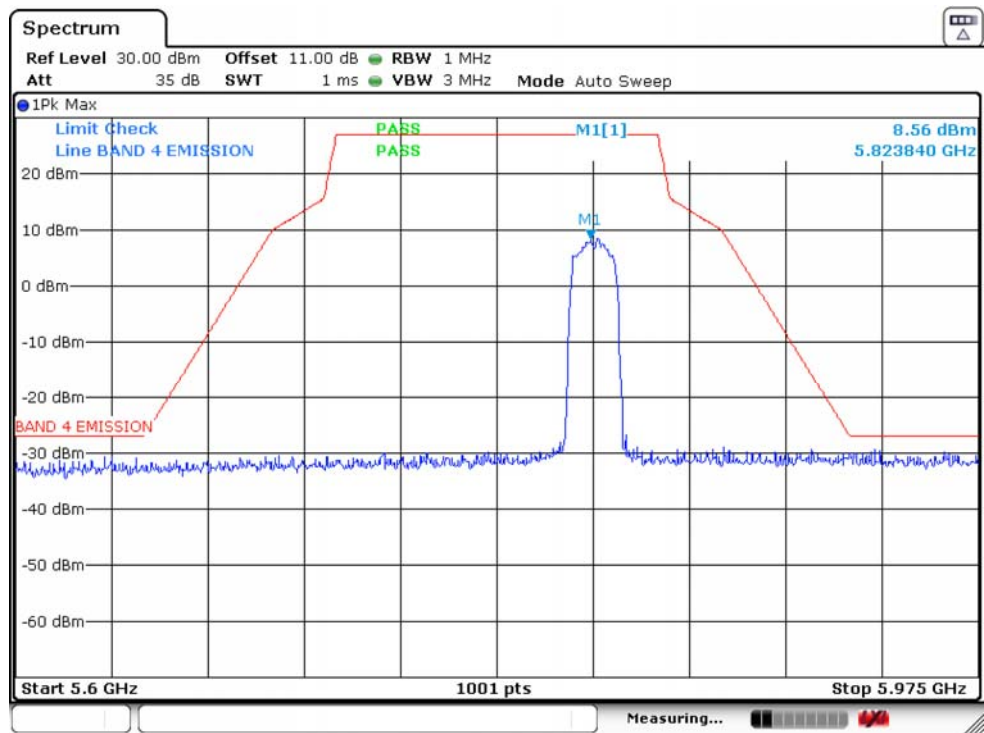
IEEE 802.11n HT20 5745



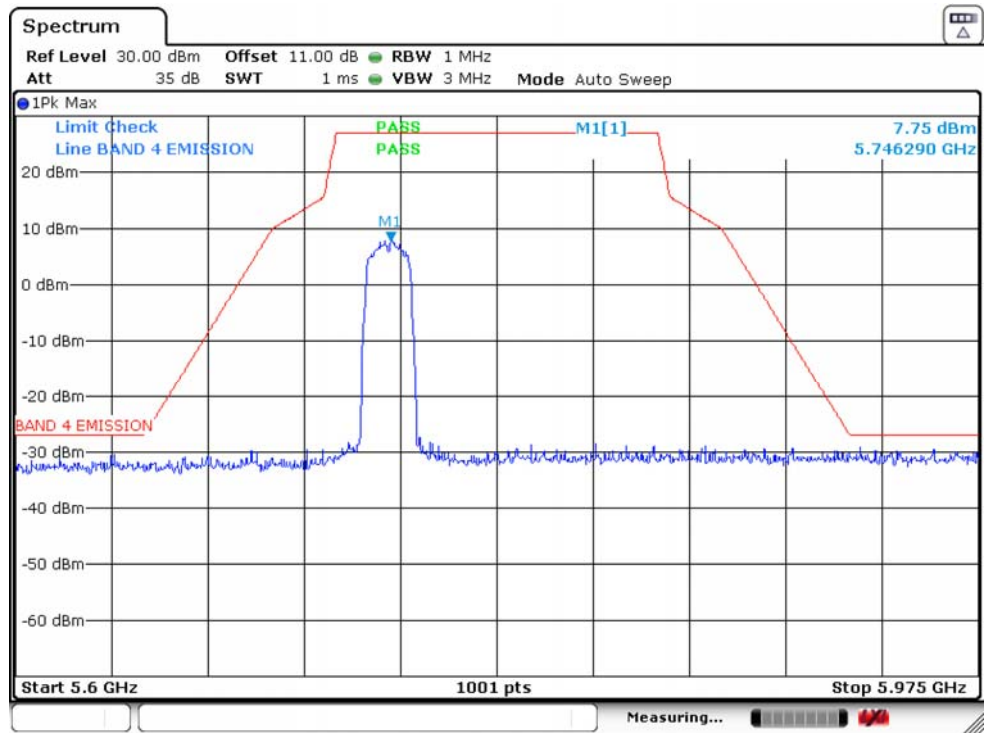
IEEE 802.11n HT20 5785



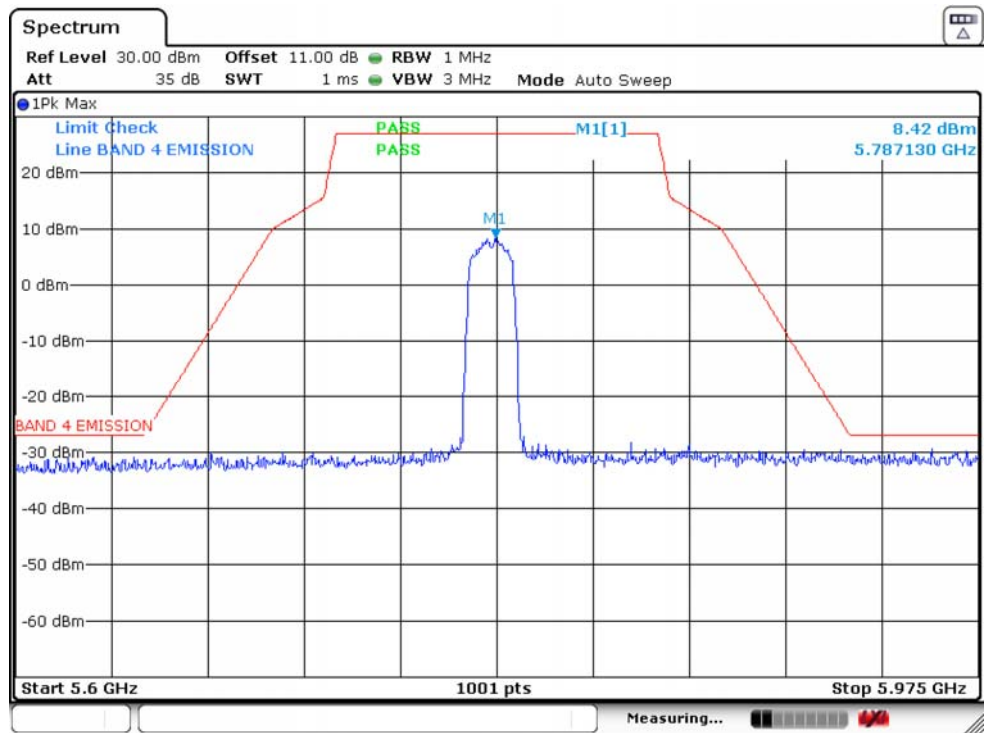
IEEE 802.11n HT20 5825



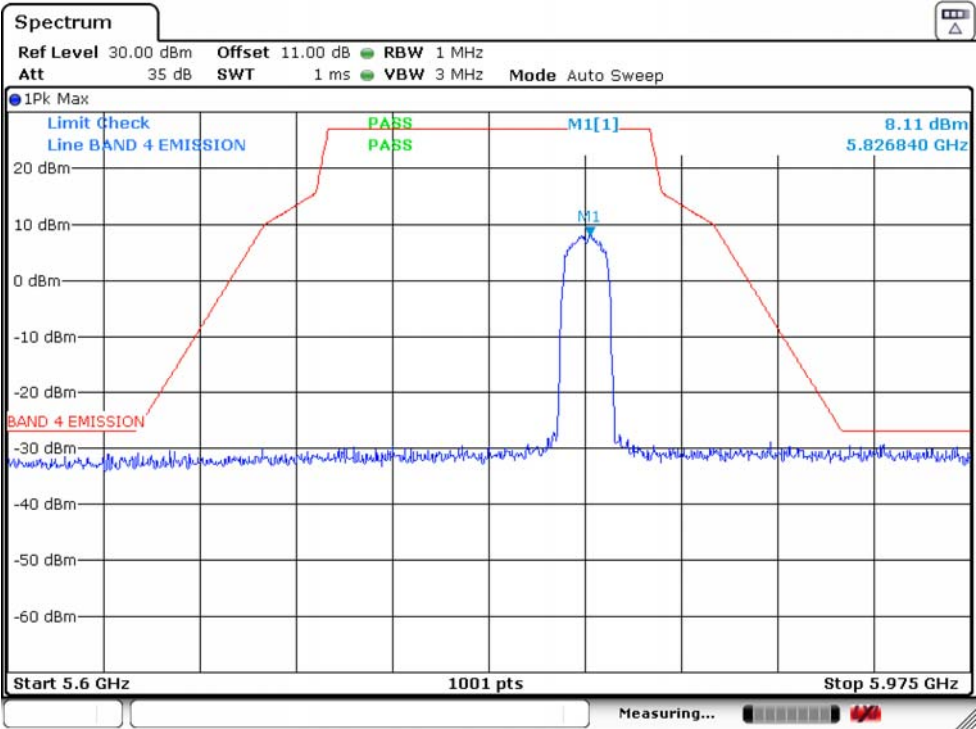
IEEE 802.11ac VHT20 5745



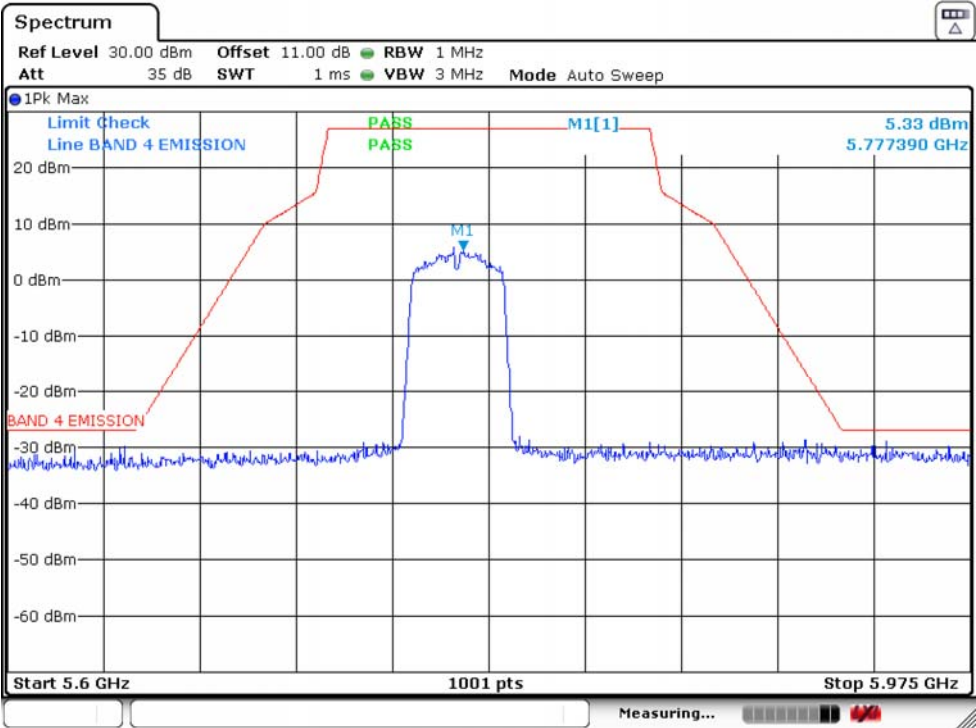
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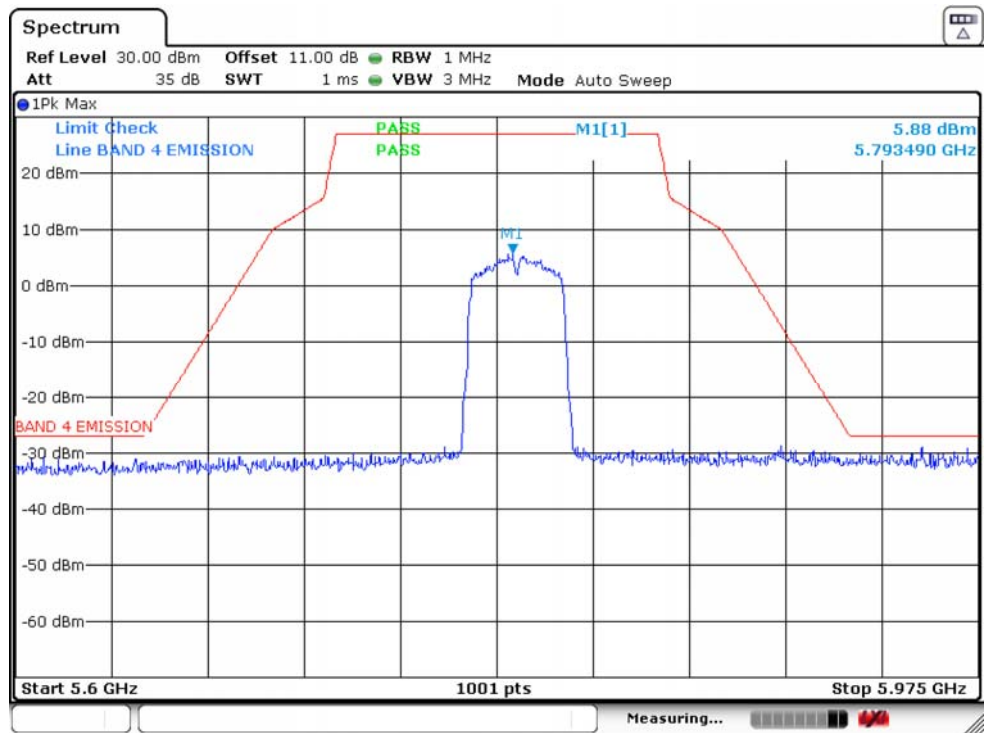
IEEE 802.11ac VHT20 5825



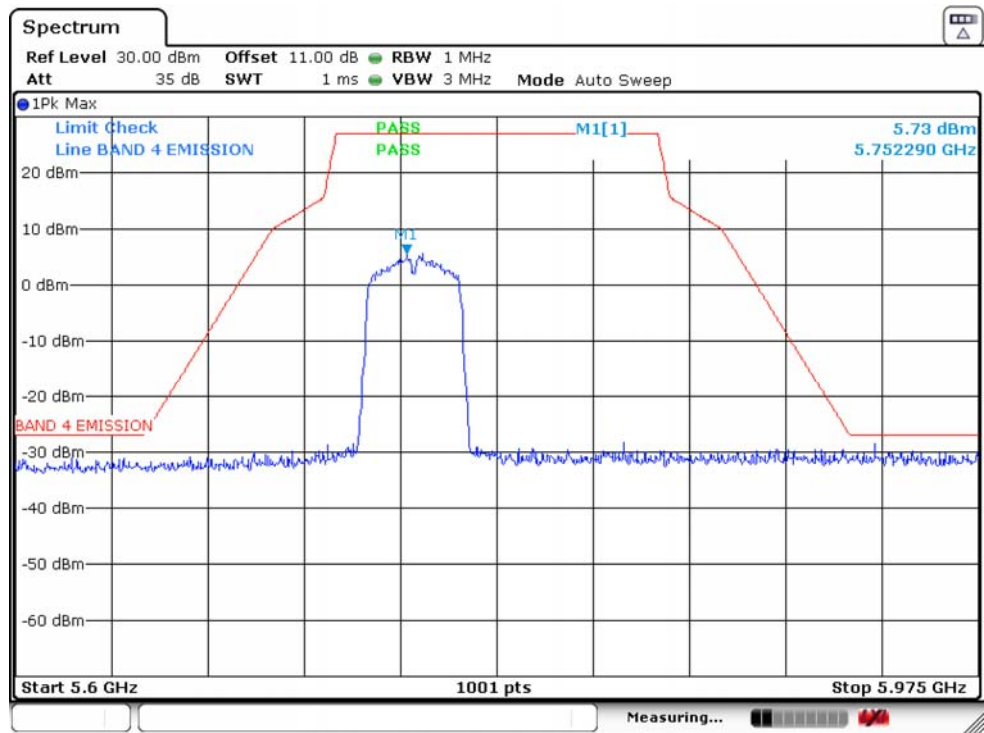
IEEE 802.11n HT40 5755



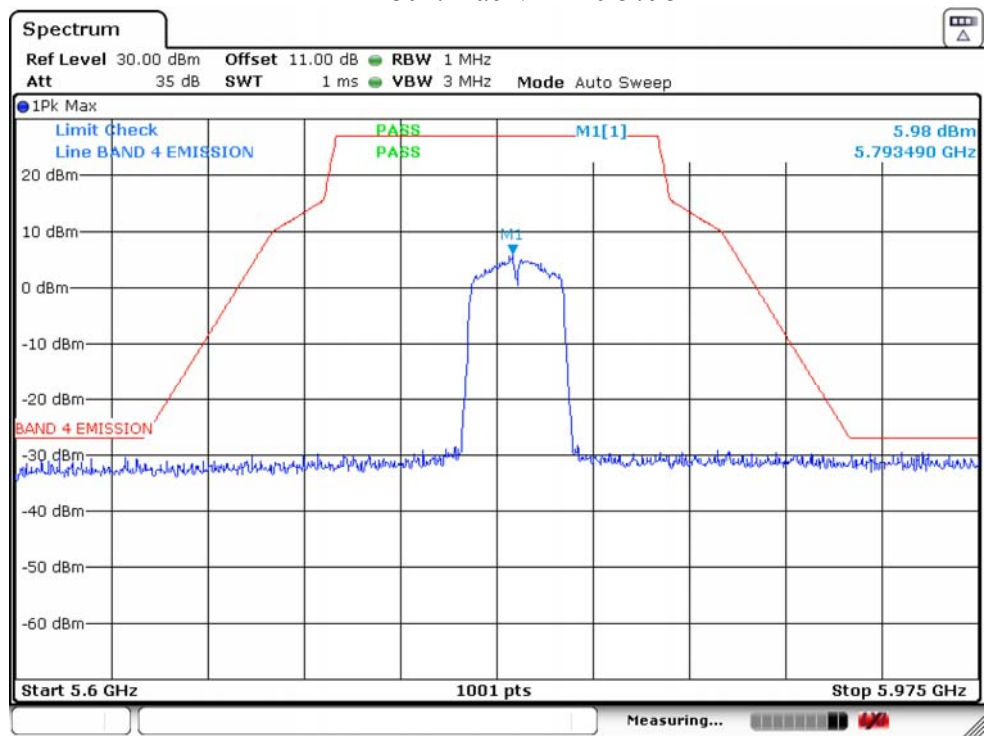
IEEE 802.11n HT40 5795



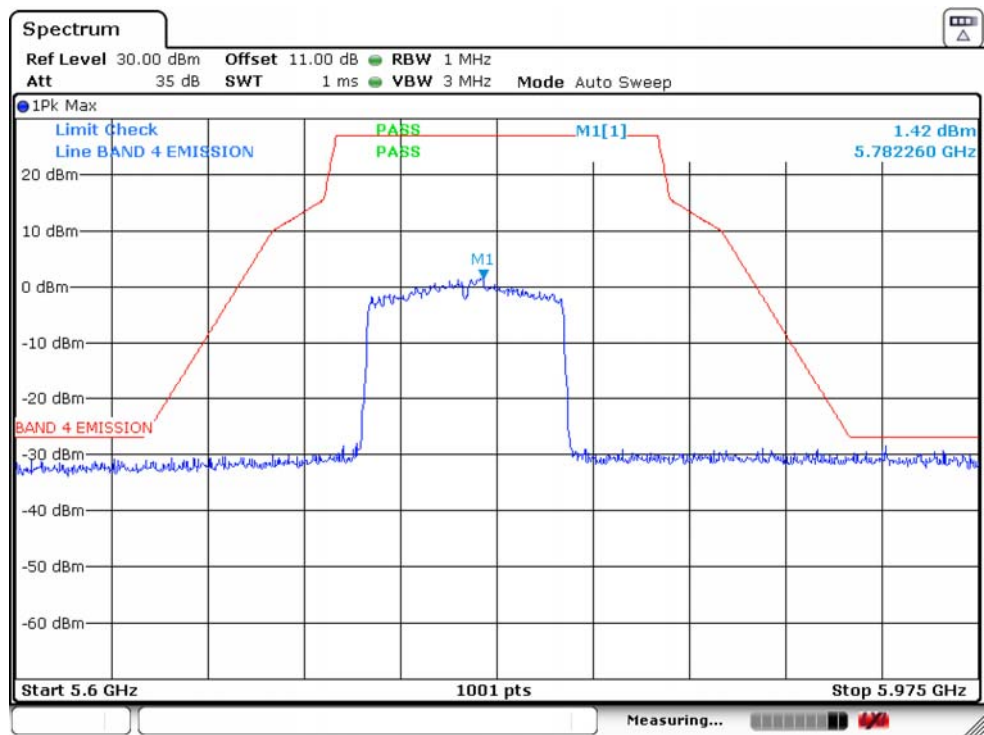
IEEE 802.11ac VHT40 5755



IEEE 802.11ac VHT40 5795



IEEE 802.11ac VHT80 5775



All modulations are all tested ,only worse case is reported

18000MHz-40000MHz

Pass

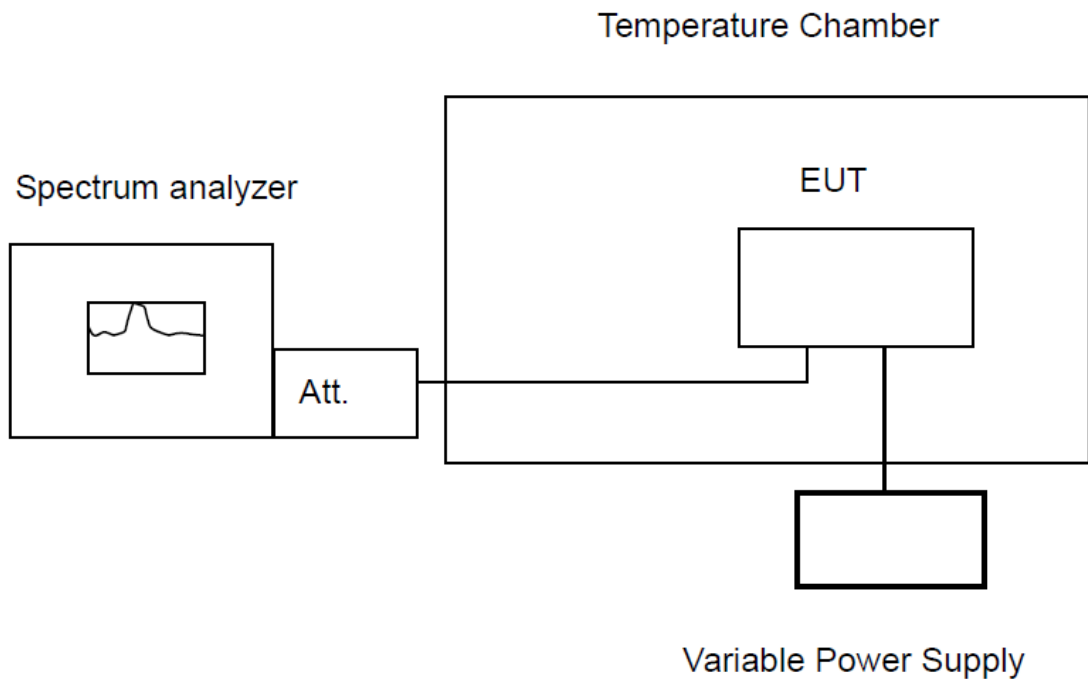
Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

7. FREQUENCY STABILITY

7.1. Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the operational description.

7.2. Test Setup



7.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	10KHz
VBW	10KHz
Span	200KHz
Sweep Time	Auto
Detector	PEAK
Trace Mode	Max Hold

7.4. Test Procedure

For measurement frequency stability under temperature variation :

- a. Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT.
- b. Turn the EUT OFF and place it inside the environmental temperature chamber.
- c. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- d. Spectrum analyzer setting parameters in accordance with section 7.3.
- e. Set the temperature control on the chamber to the Specified temperature and allow the oscillator heater and the chamber temperature to stabilize.
- f. Turn the EUT ON with the rated voltage, and the EUT transmit continuously with maximum output power.
- g. Record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized.
- h. Repeat step d through step f to measured the temperature form -20°C to $+50^{\circ}\text{C}$ in 10°C steps.

For frequency stability under voltage variation:

- a. Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT.
- b. Turn the EUT OFF and place it inside the environmental temperature chamber.
- c. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- d. Spectrum analyzer setting parameters in accordance with section 7.3.
- e. Unless otherwise specified, set the temperature control on the chamber to the ambient room temperature ($+15^{\circ}\text{C}$ to $+25^{\circ}\text{C}$) and allow the oscillator heater and the chamber temperature to stabilize.
- f. Turn the EUT ON with the rated voltage, and the EUT transmit continuously with maximum output power.
- g. Record the operating frequency.
- h. Repeat step d through step f to measured the varied from 85% to 115% of the rated voltage.

7.5. Test Result

Frequency (MHz)	Voltage (V)	Temperature (°C)	Time (minutes)	Measurement Value (MHz)	Frequency Error (ppm)
5180	3.3	50	0	5179.9290070	-13.71
			2	5179.9210080	-15.25
			5	5179.9200080	-15.44
			10	5179.9205340	-15.34
	3.3	40	0	5179.9267430	-14.14
			2	5179.9268550	-14.12
			5	5179.9280760	-13.88
			10	5179.9261020	-14.27
	3.3	30	0	5179.9257490	-14.33
			2	5179.9266270	-14.16
			5	5179.9208340	-15.28
			10	5179.9250750	-14.46
	3.3	20	0	5179.9211230	-15.23
			2	5179.9261140	-14.26
			5	5179.9268960	-14.11
			10	5179.9219100	-15.08
	3.3	10	0	5179.9276690	-13.96
			2	5179.9258900	-14.31
			5	5179.9206090	-15.33
			10	5179.9204840	-15.35
	3.3	0	0	5179.9222590	-15.01
			2	5179.9275380	-13.99
			5	5179.9241650	-14.64
			10	5179.9266670	-14.16
	3.3	-10	0	5179.9279860	-13.90
			2	5179.9266520	-14.16
			5	5179.9249830	-14.48
			10	5179.9252280	-14.43
	3.3	-20	0	5179.9238150	-14.71
			2	5179.9219990	-15.06
			5	5179.9256080	-14.36
			10	5179.9202670	-15.39
	3.3	20	/	5179.9233320	-14.80
	3.2	20	/	5179.9285620	-13.79
	3.9	20	/	5179.9240030	-14.67
	MAX Frquency Error(ppm)				-13.71

Frequency (MHz)	Voltage (V)	Temperature (°C)	Time (minutes)	Measurement Value (MHz)	Frequency Error (ppm)
5320	3.3	50	0	5320.0010000	0.19
			2	5319.9600040	-7.52
			5	5319.9720030	-5.26
			10	5319.9815350	-3.47
	3.3	40	0	5319.9763790	-4.44
			2	5319.9936440	-1.19
			5	5319.9646290	-6.65
			10	5319.9783460	-4.07
	3.3	30	0	5319.9918480	-1.53
			2	5319.9634130	-6.88
			5	5319.9939270	-1.14
			10	5319.9790430	-3.94
	3.3	20	0	5319.9835440	-3.09
			2	5319.9875180	-2.35
			5	5320.0001560	0.03
			10	5319.9884420	-2.17
	3.3	10	0	5319.9849840	-2.82
			2	5319.9690470	-5.82
			5	5319.9981000	-0.36
			10	5319.9738370	-4.92
	3.3	0	0	5319.9915050	-1.60
			2	5319.9813440	-3.51
			5	5319.9906710	-1.75
			10	5319.9742690	-4.84
	3.3	-10	0	5319.9671280	-6.18
			2	5319.9818230	-3.42
			5	5319.9960150	-0.75
			10	5319.9998210	-0.03
	3.3	-20	0	5319.9611580	-7.30
			2	5319.9673920	-6.13
			5	5320.0008670	0.16
			10	5319.9749110	-4.72
	3.3	20	/	5319.9917660	-1.55
	3.2	20	/	5319.9842390	-2.96
	3.9	20	/	5319.9843410	-2.94
MAX Frquency Error(ppm)					0.19

Frequency (MHz)	Voltage (V)	Temperature (°C)	Time (minutes)	Measurement Value (MHz)	Frequency Error (ppm)
5500	3.3	50	0	5499.9240080	-13.82
			2	5499.9654740	-6.28
			5	5499.9264780	-13.37
			10	5499.9342800	-11.95
	3.3	40	0	5499.9342400	-11.96
			2	5499.9583790	-7.57
			5	5499.9278960	-13.11
			10	5499.9322660	-12.32
	3.3	30	0	5499.9620070	-6.91
			2	5499.9531270	-8.52
			5	5499.9358270	-11.67
			10	5499.9303460	-12.66
	3.3	20	0	5499.9549110	-8.20
			2	5499.9555910	-8.07
			5	5499.9302450	-12.68
			10	5499.9523710	-8.66
	3.3	10	0	5499.9289780	-12.91
			2	5499.9563470	-7.94
			5	5499.9635770	-6.62
			10	5499.9543830	-8.29
	3.3	0	0	5499.9553820	-8.11
			2	5499.9610540	-7.08
			5	5499.9341190	-11.98
			10	5499.9579800	-7.64
	3.3	-10	0	5499.9567630	-7.86
			2	5499.9648240	-6.40
			5	5499.9561650	-7.97
			10	5499.9498260	-9.12
	3.3	-20	0	5499.9372260	-11.41
			2	5499.9634850	-6.64
			5	5499.9594510	-7.37
			10	5499.9395130	-11.00
	3.3	20	/	5499.9424900	-10.46
	3.2	20	/	5499.9450060	-10.00
	3.9	20	/	5499.9250330	-13.63
	MAX Frquency Error(ppm)				

Frequency (MHz)	Voltage (V)	Temperature (°C)	Time (minutes)	Measurement Value (MHz)	Frequency Error (ppm)
5745	3.3	50	0	5699.9430060	-10.00
			2	5700.0070000	1.23
			5	5700.0070000	1.23
			10	5699.9610820	-6.83
	3.3	40	0	5699.9478690	-9.15
			2	5699.9933760	-1.16
			5	5699.9664440	-5.89
			10	5699.9485150	-9.03
	3.3	30	0	5699.9772180	-4.00
			2	5699.9527520	-8.29
			5	5700.0007220	0.13
			10	5699.9612590	-6.80
	3.3	20	0	5700.0030440	0.53
			2	5699.9606780	-6.90
			5	5699.9985720	-0.25
			10	5699.9580450	-7.36
	3.3	10	0	5699.9623270	-6.61
			2	5699.9448960	-9.67
			5	5699.9477050	-9.17
			10	5699.9677760	-5.65
	3.3	0	0	5699.9869630	-2.29
			2	5699.9976600	-0.41
			5	5699.9733750	-4.67
			10	5700.0060610	1.06
	3.3	-10	0	5699.9602140	-6.98
			2	5700.0066040	1.16
			5	5699.9662710	-5.92
			10	5699.9826140	-3.05
	3.3	-20	0	5699.9887730	-1.97
			2	5699.9609760	-6.85
			5	5699.9481450	-9.10
			10	5699.9737310	-4.61
	3.3	20	/	5699.9587250	-7.24
	3.2	20	/	5699.9869290	-2.29
	3.9	20	/	5699.9853800	-2.56
	MAX Frquency Error(ppm)				

8. AC POWER LINE CONDUCTED EMISSIONS

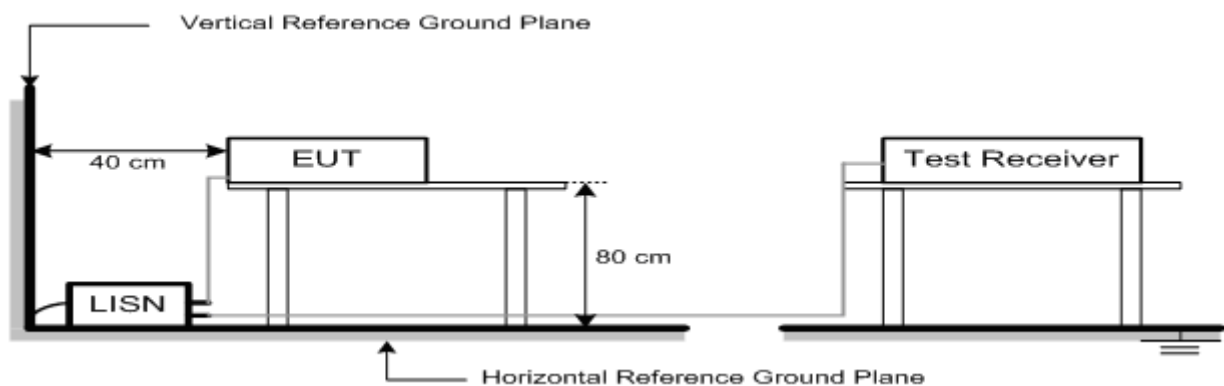
8.1. Limit

Frequency			Maximum RF Line Voltage	
			Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz	~	500kHz	66 ~ 56*	56 ~ 46*
500kHz	~	5MHz	56	46
5MHz	~	30MHz	60	50

Notes:

1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

8.2. Test Setup



8.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP/AVG
Trace Mode	Max Hold

8.4. Test Procedure

- a. The EUT was placed on a non-metallic table, 80cm above the ground plane.
- b. The EUT Power connected to the power mains through a line impedance stabilization network.
- c. Provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs).
- d. Set the EUT transmit continuously with maximum output power.
- e. Spectrum analyzer setting parameters in accordance with section 8.3.
- f. The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.
- g. Record the results in the test report.

8.5. Test Result

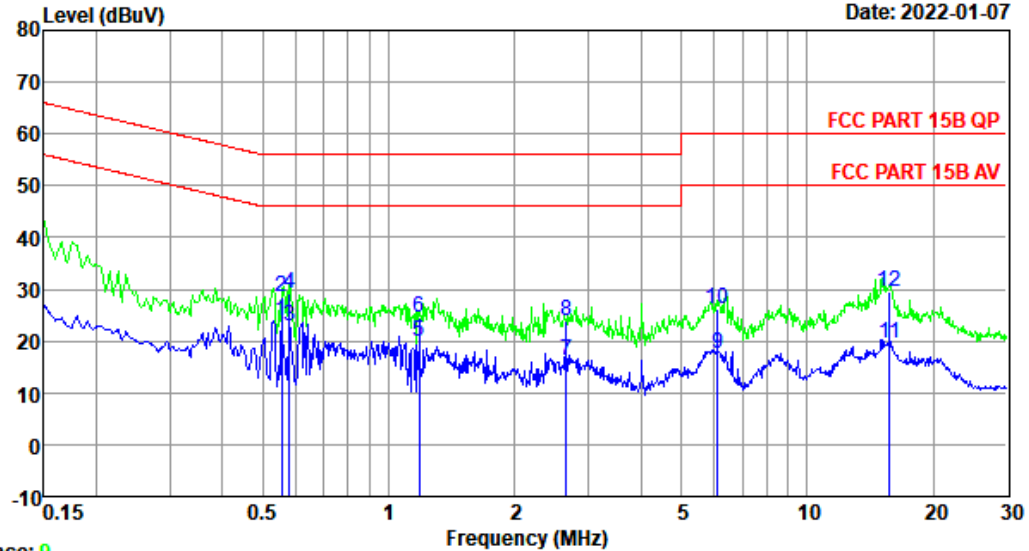
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Data: 10

File: \\EMC-ce-2\Test Data\2022\RF\G\Gao Sheng Da\WKCT27M2501.EM6 (52)

Date: 2022-01-07



Site no. : 2#CE Shield Room Data no. : 10
 Env. / Ins. : Temp:22.8°C Humi:58% Press:101.30kPa. : LINE
 Limit : FCC PART 15B QP
 Engineer : ZSX
 EUT : WIFI+BT Module
 Power : DC 3.3V From PC Input AC 120V/60Hz
 M/N : WKCT27M2501
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.5552	9.84	0.05	13.88	23.77	46.00	22.23	Average
2	0.5552	9.84	0.05	18.79	28.68	56.00	27.32	QP
3	0.5792	9.83	0.05	13.05	22.93	46.00	23.07	Average
4	0.5792	9.83	0.05	19.43	29.31	56.00	26.69	QP
5	1.1844	9.92	0.06	9.95	19.93	46.00	26.07	Average
6	1.1844	9.92	0.06	14.50	24.48	56.00	31.52	QP
7	2.6500	9.95	0.07	6.27	16.29	46.00	29.71	Average
8	2.6500	9.95	0.07	13.79	23.81	56.00	32.19	QP
9	6.1209	9.90	0.07	7.73	17.70	50.00	32.30	Average
10	6.1209	9.90	0.07	16.27	26.24	60.00	33.76	QP
11	15.7179	9.86	0.08	9.67	19.61	50.00	30.39	Average
12	15.7179	9.86	0.08	19.61	29.55	60.00	30.45	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

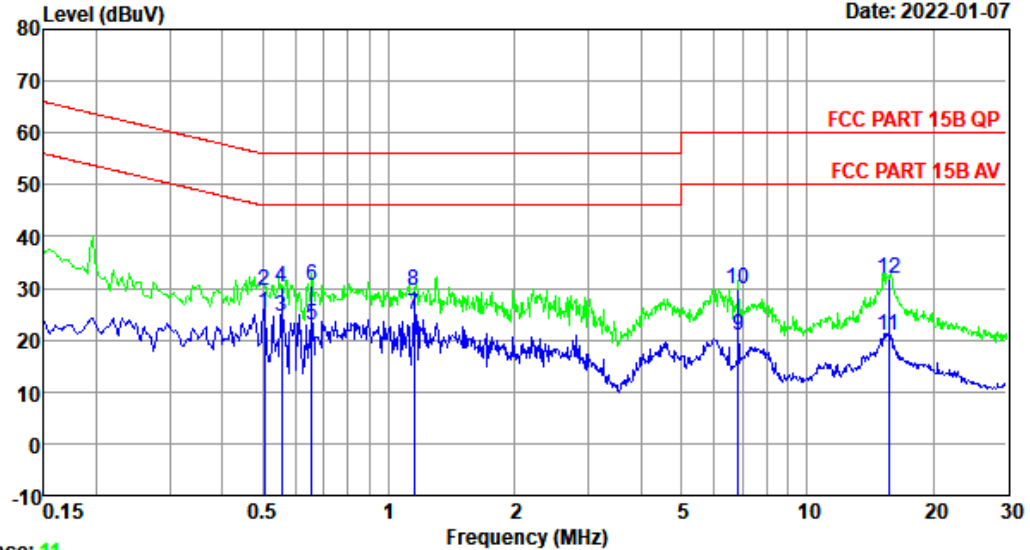
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Data: 12

File: \\EMC-ce-2\Test Data\2022\RF\G\Gao Sheng Da\WKCT27M2501.EM6 (52)

Date: 2022-01-07



Trace: 11

Site no. : 2#CE Shield Room Data no. : 12
 Env. / Ins. : Temp:22.8°C Humi:58% Press:101.30kPa. : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : ZSX
 EUT : WIFI+BT Module
 Power : DC 3.3V From PC Input AC 120V/60Hz
 M/N : WKCT27M2501
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.5047	9.76	0.05	15.53	25.34	46.00	20.66	Average
2	0.5047	9.76	0.05	19.66	29.47	56.00	26.53	QP
3	0.5552	9.76	0.05	14.65	24.46	46.00	21.54	Average
4	0.5552	9.76	0.05	20.53	30.34	56.00	25.66	QP
5	0.6543	9.76	0.05	13.23	23.04	46.00	22.96	Average
6	0.6543	9.76	0.05	20.84	30.65	56.00	25.35	QP
7	1.1473	9.82	0.06	15.02	24.90	46.00	21.10	Average
8	1.1473	9.82	0.06	19.65	29.53	56.00	26.47	QP
9	6.8412	10.05	0.08	10.86	20.99	50.00	29.01	Average
10	6.8412	10.05	0.08	19.64	29.77	60.00	30.23	QP
11	15.6349	10.13	0.08	10.75	20.96	50.00	29.04	Average
12	15.6349	10.13	0.08	21.48	31.69	60.00	28.31	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

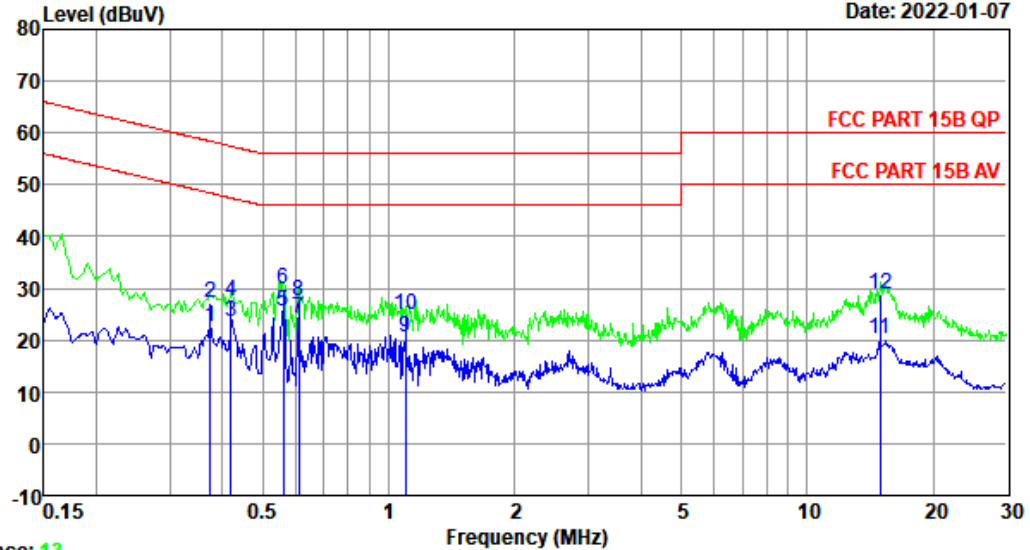
EST Technology

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Data: 14

File: \\EMC-ce-2\Test Data\2022\RF\G\Gao Sheng Da\WKCT27M2501.EM6 (52)

Date: 2022-01-07



Trace: 13

Site no. : 2#CE Shield Room Data no. : 14
 Env. / Ins. : Temp:22.8°C Humi:58% Press:101.30kPa. : LINE
 Limit : FCC PART 15B QP
 Engineer : ZSX
 EUT : WIFI+BT Module
 Power : DC 3.3V From PC Input AC 240V/60Hz
 M/N : WKCT27M2501
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.3751	9.81	0.05	12.81	22.67	48.39	25.72	Average
2	0.3751	9.81	0.05	17.44	27.30	58.39	31.09	QP
3	0.4193	9.85	0.05	13.57	23.47	47.46	23.99	Average
4	0.4193	9.85	0.05	17.76	27.66	57.46	29.80	QP
5	0.5611	9.84	0.05	15.68	25.57	46.00	20.43	Average
6	0.5611	9.84	0.05	19.81	29.70	56.00	26.30	QP
7	0.6108	9.83	0.05	14.48	24.36	46.00	21.64	Average
8	0.6108	9.83	0.05	17.76	27.64	56.00	28.36	QP
9	1.0939	9.93	0.06	10.49	20.48	46.00	25.52	Average
10	1.0939	9.93	0.06	14.89	24.88	56.00	31.12	QP
11	14.9068	9.86	0.08	10.41	20.35	50.00	29.65	Average
12	14.9068	9.86	0.08	18.82	28.76	60.00	31.24	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

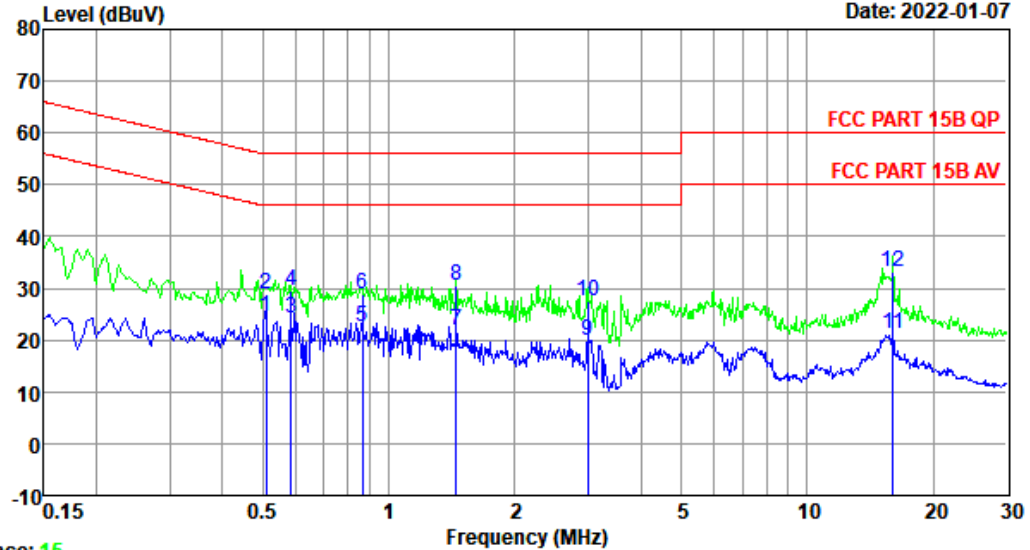
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Data: 16

File: \\EMC-ce-2\Test Data\2022\RF\G\Gao Sheng Da\WKCT27M2501.EM6 (52)

Date: 2022-01-07



Trace: 15

Site no. : 2#CE Shield Room Data no. : 16
Env. / Ins. : Temp:22.8°C Humi:58% Press:101.30kPa. : NEUTRAL
Limit : FCC PART 15B QP
Engineer : ZSX
EUT : WIFI+BT Module
Power : DC 3.3V From PC Input AC 240V/60Hz
M/N : WKCT27M2501
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.5101	9.76	0.05	14.88	24.69	46.00	21.31	Average
2	0.5101	9.76	0.05	19.05	28.86	56.00	27.14	QP
3	0.5854	9.75	0.05	14.45	24.25	46.00	21.75	Average
4	0.5854	9.75	0.05	19.64	29.44	56.00	26.56	QP
5	0.8664	9.85	0.06	12.70	22.61	46.00	23.39	Average
6	0.8664	9.85	0.06	18.97	28.88	56.00	27.12	QP
7	1.4485	9.85	0.06	12.04	21.95	46.00	24.05	Average
8	1.4485	9.85	0.06	20.64	30.55	56.00	25.45	QP
9	2.9935	9.98	0.07	9.88	19.93	46.00	26.07	Average
10	2.9935	9.98	0.07	17.32	27.37	56.00	28.63	QP
11	16.0546	10.13	0.08	10.99	21.20	50.00	28.80	Average
12	16.0546	10.13	0.08	22.83	33.04	60.00	26.96	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

9. ANTENNA REQUIREMENTS

9.1. Limit

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

9.2. Test Result

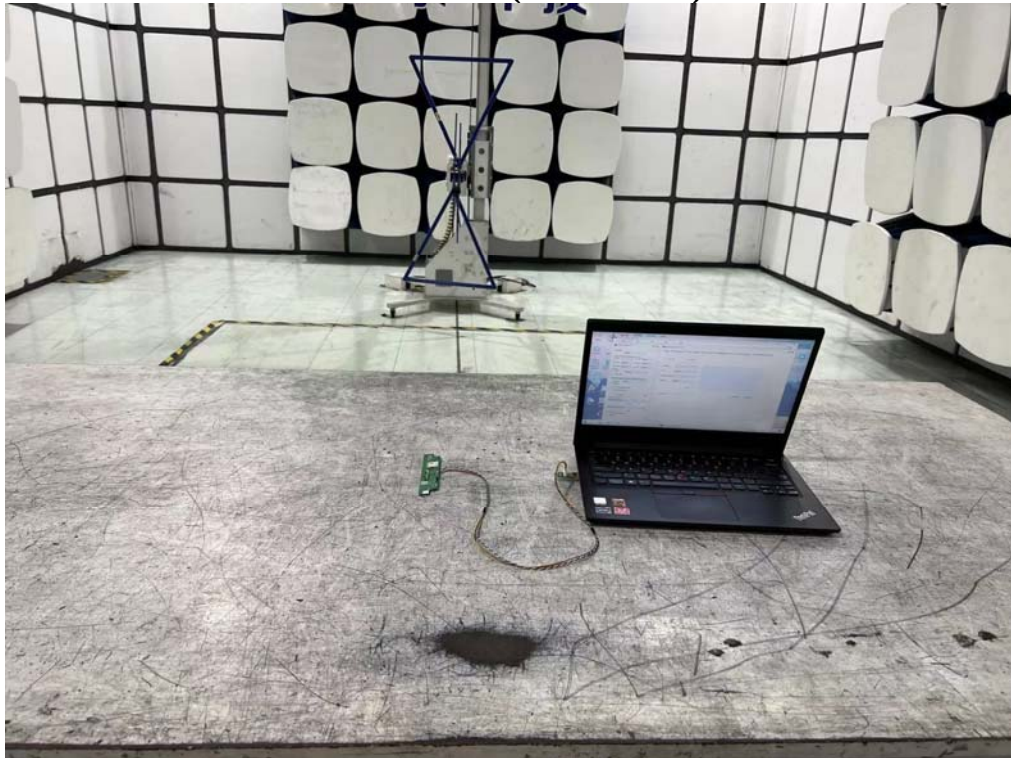
The antennas used for this product is PCB antenna ,so compliance with antenna requirements.
(Please refer to the EUT photo for details)

10. TEST SETUP PHOTO

Conducted Test



Radiated Test (Below 1GHz)

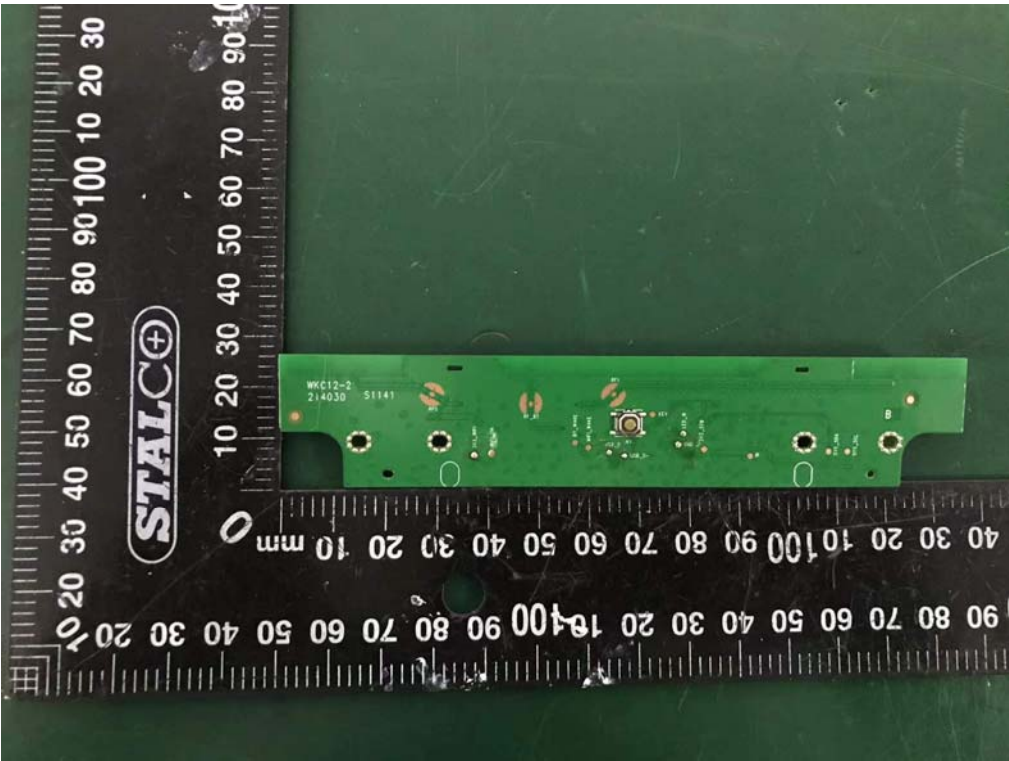
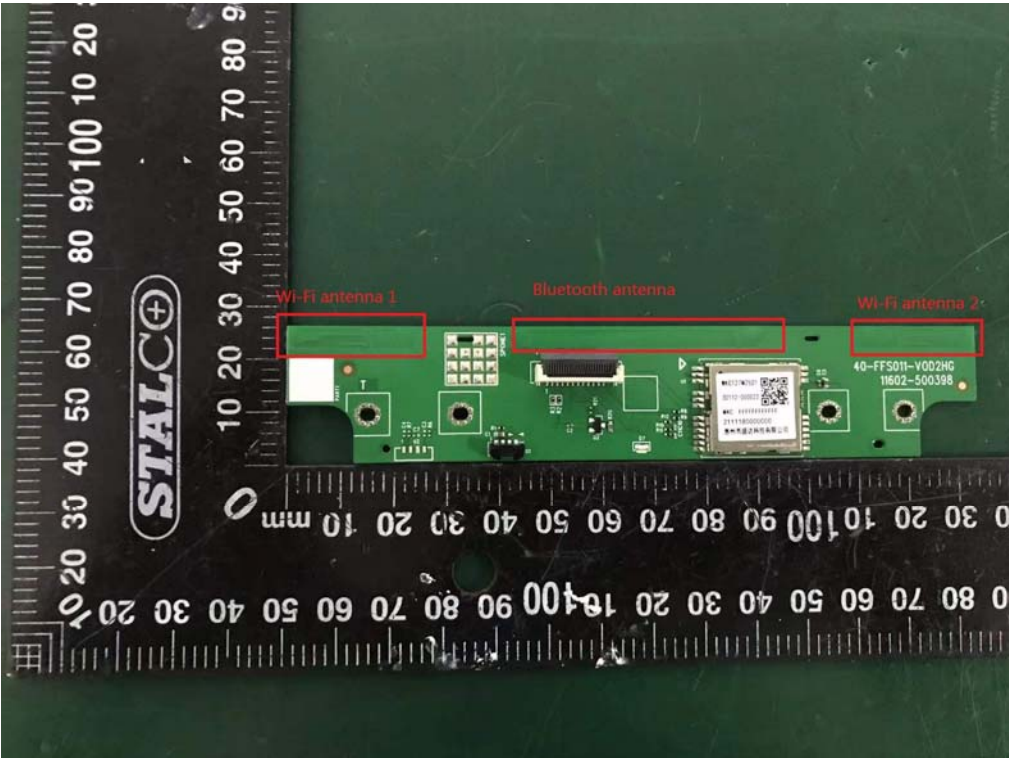


Radiated Test (Above 1GHz)

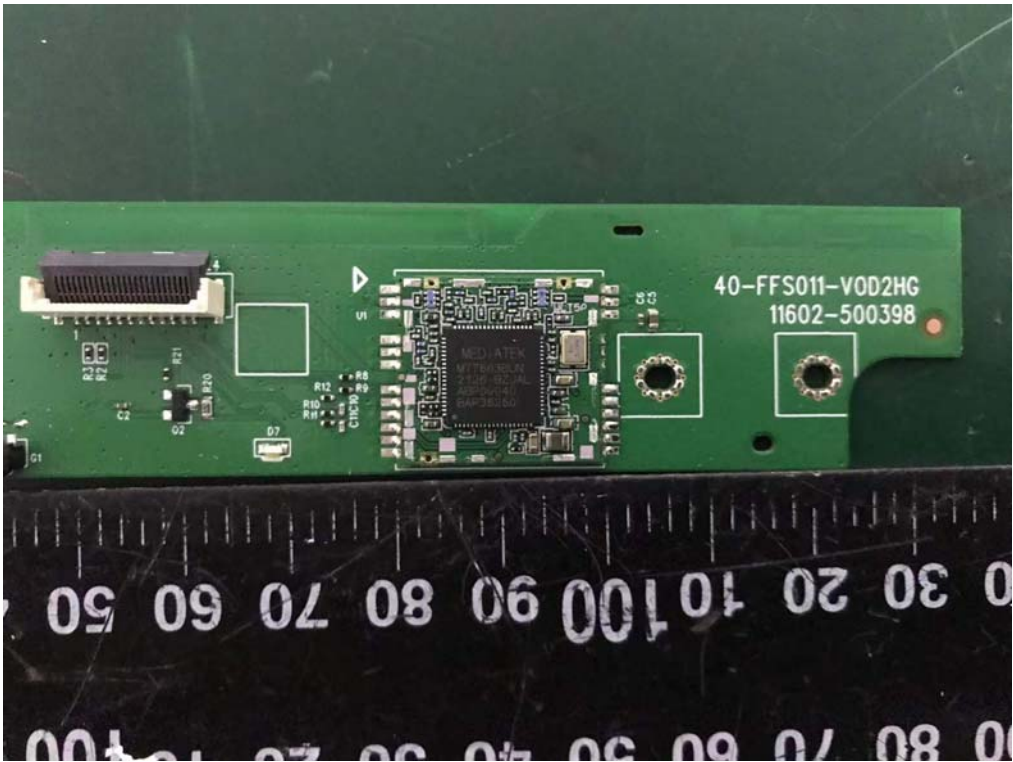
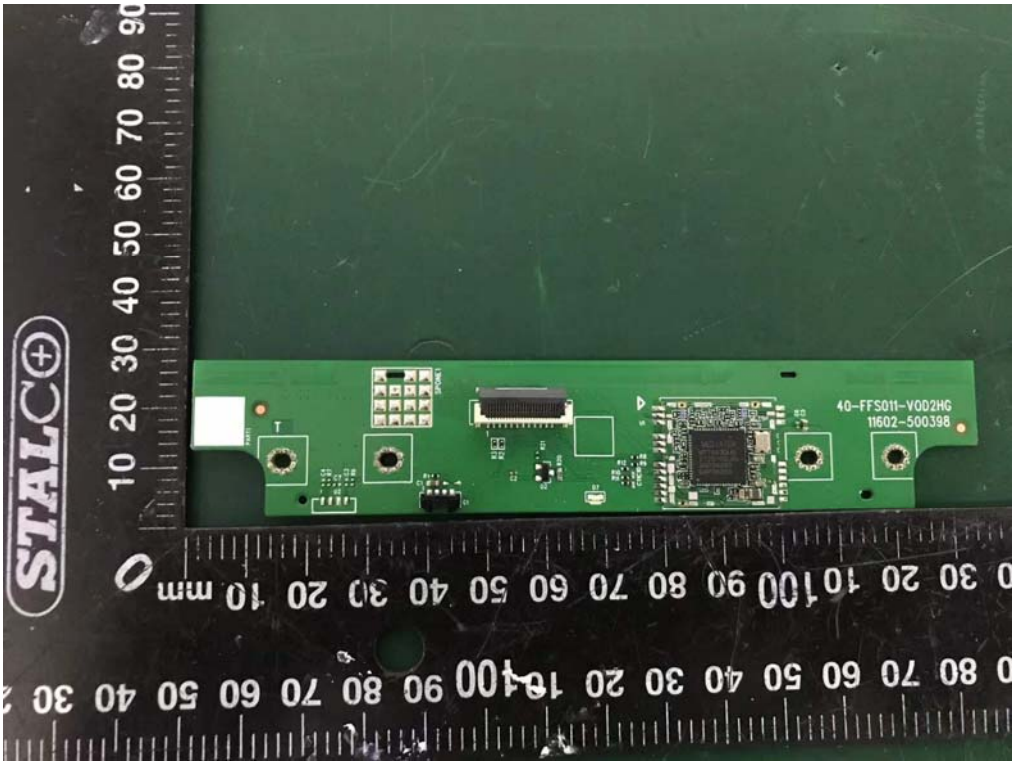


11. EUT PHOTO

External Photos
M/N: WKCT27M2501



Internal photos
M/N: WKCT27M2501



End of Test Report