

Test Mode	Test Mode Channel		Verdict	
11AX HE20	MCH	Vertical	PASS	



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	7437.3672	44.12	4.21	48.33	74.00	-25.67	Vertical
2	8578.8849	41.82	6.42	48.24	74.00	-25.76	Vertical
3	14024.8156	38.97	11.89	50.86	74.00	-23.14	Vertical
4	15969.9962	37.84	14.45	52.29	74.00	-21.71	Vertical
5	17304.1630	37.53	17.03	54.56	74.00	-19.44	Vertical
6	17772.8466	36.08	18.69	54.77	74.00	-19.23	Vertical
7	17969.8087	36.41	19.63	56.04	74.00	-17.96	Vertical

#### AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	17304.1630	26.60	17.03	43.63	54.00	-10.37	Vertical
2	17772.8466	26.98	18.69	45.67	54.00	-8.33	Vertical
3	17969.8087	27.76	19.63	47.39	54.00	-6.61	Vertical

Note: 1. Measurement = Reading Level + Correct Factor,

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
- 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
- 5. For above 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Test Mode	Test Mode Channel		Verdict	
11AX HE20	HCH	Horizontal	PASS	



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	8082.8854	43.36	5.44	48.80	74.00	-25.20	Horizontal
2	9266.0958	42.64	6.11	48.75	74.00	-25.25	Horizontal
3	11264.4706	42.00	7.25	49.25	74.00	-24.75	Horizontal
4	15104.5131	39.67	13.20	52.87	74.00	-21.13	Horizontal
5	17183.3979	36.99	16.59	53.58	74.00	-20.42	Horizontal
6	17603.2004	37.16	18.04	55.20	74.00	-18.80	Horizontal
7	17969.8087	36.05	19.63	55.68	74.00	-18.32	Horizontal

#### AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	17603.2004	27.53	18.04	45.57	54.00	-8.43	Horizontal
2	17969.8087	27.10	19.63	46.73	54.00	-7.27	Horizontal

Note: 1. Measurement = Reading Level + Correct Factor,

Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
- 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
- 5. For above 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Test Mode	Test Mode Channel		Verdict	
11AX HE20	HCH	Vertical	PASS	



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	8522.8154	42.68	6.40	49.08	74.00	-24.92	Vertical
2	9665.7707	41.97	6.45	48.42	74.00	-25.58	Vertical
3	14788.2235	38.99	12.86	51.85	74.00	-22.15	Vertical
4	15974.3093	39.29	14.49	53.78	74.00	-20.22	Vertical
5	16608.3260	37.88	15.88	53.76	74.00	-20.24	Vertical
6	17495.3744	36.88	17.64	54.52	74.00	-19.48	Vertical
7	17974.1218	35.84	19.70	55.54	74.00	-18.46	Vertical

#### AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	17495.3744	26.61	17.64	44.25	54.00	-9.75	Vertical
2	17974.1218	26.04	19.70	45.74	54.00	-8.26	Vertical

Note: 1. Measurement = Reading Level + Correct Factor,

Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
- 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
- 5. For above 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Test Mode	Test Mode Channel		Verdict	
11AX HE40	LCH	Horizontal	PASS	



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	7756.5321	42.88	5.24	48.12	74.00	-25.88	Horizontal
2	8974.2468	42.13	6.21	48.34	74.00	-25.66	Horizontal
3	14740.7801	38.77	12.90	51.67	74.00	-22.33	Horizontal
4	16116.6396	38.20	14.88	53.08	74.00	-20.92	Horizontal
5	16635.6420	37.59	15.84	53.43	74.00	-20.57	Horizontal
6	17611.8265	36.63	18.06	54.69	74.00	-19.31	Horizontal
7	17966.9334	35.78	19.63	55.41	74.00	-18.59	Horizontal

#### AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	17611.8265	27.25	18.06	45.31	54.00	-8.69	Horizontal
2	17966.9334	26.84	19.63	46.47	54.00	-7.53	Horizontal

Note: 1. Measurement = Reading Level + Correct Factor,

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
- 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
- 5. For above 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Test Mode Channel		Polarization	Verdict	
11AX HE40	LCH	Vertical	PASS	



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	8080.0100	41.86	5.48	47.34	74.00	-26.66	Vertical
2	9434.3043	42.02	6.60	48.62	74.00	-25.38	Vertical
3	15965.6832	38.65	14.51	53.16	74.00	-20.84	Vertical
4	16415.6770	37.99	15.13	53.12	74.00	-20.88	Vertical
5	17154.6443	36.97	16.47	53.44	74.00	-20.56	Vertical
6	17575.8845	36.64	17.93	54.57	74.00	-19.43	Vertical
7	17945.3682	36.51	19.48	55.99	74.00	-18.01	Vertical

#### AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	17575.8845	27.11	17.93	45.04	54.00	-8.96	Vertical
2	17945.3682	27.20	19.48	46.68	54.00	-7.32	Vertical

Note: 1. Measurement = Reading Level + Correct Factor,

Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
- 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
- 5. For above 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Test Mode	Test Mode Channel		Verdict	
11AX HE40	MCH	Horizontal	PASS	



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	8071.3839	42.78	5.67	48.45	74.00	-25.55	Horizontal
2	8518.5023	42.31	6.44	48.75	74.00	-25.25	Horizontal
3	9228.7161	42.93	6.01	48.94	74.00	-25.06	Horizontal
4	15980.0600	38.00	14.56	52.56	74.00	-21.44	Horizontal
5	17092.8241	37.13	16.43	53.56	74.00	-20.44	Horizontal
6	17529.8787	37.28	17.57	54.85	74.00	-19.15	Horizontal
7	17942.4928	36.14	19.46	55.60	74.00	-18.40	Horizontal

#### AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	17529.8787	26.75	17.57	44.32	54.00	-9.68	Horizontal
2	17942.4928	27.55	19.46	47.01	54.00	-6.99	Horizontal

Note: 1. Measurement = Reading Level + Correct Factor,

Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
- 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
- 5. For above 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Test Mode	Test Mode Channel		Verdict	
11AX HE40	MCH	Vertical	PASS	



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	8380.4851	42.57	5.75	48.32	74.00	-25.68	Vertical
2	9369.6087	42.96	6.50	49.46	74.00	-24.54	Vertical
3	14004.6881	39.32	11.78	51.10	74.00	-22.90	Vertical
4	16246.0308	37.97	15.34	53.31	74.00	-20.69	Vertical
5	16696.0245	37.82	15.93	53.75	74.00	-20.25	Vertical
6	17420.6151	37.29	17.37	54.66	74.00	-19.34	Vertical
7	17951.1189	36.52	19.50	56.02	74.00	-17.98	Vertical

#### AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	17420.6151	26.69	17.37	44.06	54.00	-9.94	Vertical
2	17951.1189	27.25	19.50	46.75	54.00	-7.25	Vertical

Note: 1. Measurement = Reading Level + Correct Factor,

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
- 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
- 5. For above 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Test Mode	Channel	Polarization	Verdict
11AX HE40	HCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	8312.9141	42.48	6.21	48.69	74.00	-25.31	Horizontal
2	8578.8849	42.64	6.42	49.06	74.00	-24.94	Horizontal
3	14417.3022	38.46	12.91	51.37	74.00	-22.63	Horizontal
4	15334.5418	38.90	13.58	52.48	74.00	-21.52	Horizontal
5	16949.0561	37.31	16.05	53.36	74.00	-20.64	Horizontal
6	17646.3308	36.60	18.02	54.62	74.00	-19.38	Horizontal
7	17981.3102	36.57	19.80	56.37	74.00	-17.63	Horizontal

#### AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	17646.3308	27.10	18.02	45.12	54.00	-8.88	Horizontal
2	17981.3102	26.43	19.80	46.23	54.00	-7.77	Horizontal

Note: 1. Measurement = Reading Level + Correct Factor,

Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
- 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
- 5. For above 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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Test Mode	Channel	Polarization	Verdict
11AX HE40	HCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	8251.0939	42.32	6.30	48.62	74.00	-25.38	Vertical
2	9401.2377	41.92	6.60	48.52	74.00	-25.48	Vertical
3	14007.5634	39.02	11.80	50.82	74.00	-23.18	Vertical
4	15400.6751	38.89	13.67	52.56	74.00	-21.44	Vertical
5	17187.7110	38.29	16.60	54.89	74.00	-19.11	Vertical
6	17630.5163	36.33	18.05	54.38	74.00	-19.62	Vertical
7	17995.6870	35.83	19.77	55.60	74.00	-18.40	Vertical

#### AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	17187.7110	26.68	16.60	43.28	54.00	-10.72	Vertical
2	17630.5163	27.65	18.05	45.70	54.00	-8.30	Vertical
3	17995.6870	26.33	19.77	46.10	54.00	-7.90	Vertical

Note: 1. Measurement = Reading Level + Correct Factor,

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
- 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
- 5. For above 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



## Part 3: 18GHz~26.5GHz

#### Test Mode Channel Polarization Verdict 11B HCH Horizontal PASS 80 70 60 50 Level[dBµV/m] 40 30 20 10 0 18G 20G 26.5G Frequency[Hz]

#### SPURIOUS EMISSIONS 18GHz TO 26.5GHz (WORST-CASE CONFIGURATION)

PK Result
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No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	19448.5449	48.72	-5.50	43.22	74.00	-30.78	Horizontal
2	20078.4578	48.56	-5.13	43.43	74.00	-30.57	Horizontal
3	23209.3209	48.04	-3.40	44.64	74.00	-29.36	Horizontal
4	24204.7705	48.15	-2.79	45.36	74.00	-28.64	Horizontal
5	25150.9151	49.25	-3.45	45.80	74.00	-28.20	Horizontal
6	26054.5555	48.84	-2.61	46.23	74.00	-27.77	Horizontal

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit. 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

3. Measurement = Reading Level + Correct Factor,

Correct Factor = Antenna Factor + Loss (Cable) – Amplifier Gain.

4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Test Mode	Channel	Polarization	Verdict
11B	HCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	18622.2622	49.85	-6.39	43.46	74.00	-30.54	Vertical
2	20103.9604	48.25	-5.17	43.08	74.00	-30.92	Vertical
3	22983.1983	49.20	-3.56	45.64	74.00	-28.36	Vertical
4	23987.1487	48.27	-2.63	45.64	74.00	-28.36	Vertical
5	24546.5046	49.31	-3.03	46.28	74.00	-27.72	Vertical
6	25675.4175	49.62	-3.00	46.62	74.00	-27.38	Vertical

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit. 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

3. Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Loss (Cable) – Amplifier Gain.

4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



## Part 4: 30MHz~1GHz



## SPURIOUS EMISSIONS 30M TO 1GHz (WORST-CASE CONFIGURATION)

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	53.6704	-0.30	20.56	20.26	40.00	-19.74	Peak
2	143.1133	-0.12	20.21	20.09	43.50	-23.41	Peak
3	160.9631	0.02	20.37	20.39	43.50	-23.11	Peak
4	336.0656	3.70	22.12	25.82	46.00	-20.18	Peak
5	524.0704	1.53	26.42	27.95	46.00	-18.05	Peak
6	725.9476	1.81	30.18	31.99	46.00	-14.01	Peak

Note: 1. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit. 2. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

3. Measurement = Reading Level + Correct Factor,

Correct Factor = Antenna Factor + Loss (Cable).







No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	38.1488	0.53	19.23	19.76	40.00	-20.24	Peak
2	52.1182	-0.89	20.62	19.73	40.00	-20.27	Peak
3	158.1498	0.47	20.54	21.01	43.50	-22.49	Peak
4	253.8014	0.81	19.38	20.19	46.00	-25.81	Peak
5	412.8003	0.85	23.98	24.83	46.00	-21.17	Peak
6	584.5075	1.98	27.68	29.66	46.00	-16.34	Peak

Note: 1. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit. 2. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

3. Measurement = Reading Level + Correct Factor,

Correct Factor = Antenna Factor + Loss (Cable).





## Part 5: 9kHz~30MHz

11B	M	СН	9kH	z~150kHz		PASS
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-70						
80						
9k	20k	30k	40k	60k	80k	15

#### SPURIOUS EMISSIONS Below 30MHz (WORST CASE CONFIGURATION-FACE ON)

No.	Frequency	Reading Level	Correct Factor	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dBuA/m]	[dBuA/m]	[dB]	
1	0.0125	12.73	-61.86	-49.13	45.69	-100.63	-5.81	-94.82	Peak
2	0.0205	19.97	-61.74	-41.77	41.38	-93.27	-10.12	-83.15	Peak
3	0.0373	10.92	-61.60	-50.68	36.17	-102.18	-15.33	-86.85	Peak
4	0.0548	10.51	-61.60	-51.09	32.83	-102.59	-18.67	-83.92	Peak
5	0.0666	13.17	-61.61	-48.44	31.14	-99.94	-20.36	-79.58	Peak
6	0.1274	14.02	-61.72	-47.70	25.51	-99.20	-25.99	-73.21	Peak

Note: 1. Measurement = Reading Level + Correct Factor,

Correct Factor = Antenna Factor + Loss (Cable) + Distance Factor.

- 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
- 3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.







No.	Frequency	Reading Level	Correct Factor	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dBuA/m]	[dBuA/m]	[dB]	
1	0.1676	21.88	-61.75	-39.87	23.12	-91.37	-28.38	-62.99	Peak
2	0.1948	21.77	-61.77	-40.00	21.81	-91.50	-29.69	-61.81	Peak
3	0.2474	19.56	-61.79	-42.23	19.73	-93.73	-31.77	-61.96	Peak
4	0.2807	19.36	-61.81	-42.45	18.64	-93.95	-32.86	-61.09	Peak
5	0.3142	18.43	-61.82	-43.39	17.66	-94.89	-33.84	-61.05	Peak
6	0.4360	16.31	-61.85	-45.54	14.51	-97.04	-36.99	-60.05	Peak

Note: 1. Measurement = Reading Level + Correct Factor,

Correct Factor = Antenna Factor + Loss (Cable) + Distance Factor.

- 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
- 3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.







No.	Frequency	Reading Level	Correct Factor	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dBuA/m]	[dBuA/m]	[dB]	
1	0.7173	11.37	-21.87	-10.50	30.49	-62.00	-21.01	-40.99	Peak
2	1.5111	8.58	-21.84	-13.26	24.02	-64.76	-27.48	-37.28	Peak
3	2.3434	7.60	-21.82	-14.22	29.54	-65.72	-21.96	-43.76	Peak
4	5.5308	6.33	-21.84	-15.51	29.54	-67.01	-21.96	-45.05	Peak
5	8.2431	6.71	-21.68	-14.97	29.54	-66.47	-21.96	-44.51	Peak
6	19.3989	5.72	-21.50	-15.78	29.54	-67.28	-21.96	-45.32	Peak

Note: 1. Measurement = Reading Level + Correct Factor,

Correct Factor = Antenna Factor + Loss (Cable) + Distance Factor.

- 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
- 3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.



## **TEST GRAPHS:**

## SPURIOUS EMISSIONS (802.11B 2437MHz, 802.11A UNII-3 5180MHz, WORST-CASE CONFIGURATION)

<u>1GHz-6.5GHz</u>



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No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1254.5636	45.62	-1.56	44.06	74.00	-29.94	Horizontal
2	1394.0985	42.66	-1.34	41.32	74.00	-32.68	Horizontal
3	1535.6339	51.85	-0.62	51.23	74.00	-22.77	Horizontal
4	2376.3441	41.27	4.83	46.10	74.00	-27.90	Horizontal
5	4823.9560	41.89	15.18	57.07	74.00	-16.93	Horizontal
6	6030.0075	35.48	17.74	53.22	74.00	-20.78	Horizontal

AV Result:

No.	Frequency	Reading Level	Correct Factor	ect Result	Limit	Margin	Remark	
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]		
1	4823.9560	31.43	15.18	46.61	54.00	-7.39	Horizontal	

Remark: 1. Measurement = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. AVG: VBW refer to section 6.2.
- 6. For below 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band were not corrected for Band Reject Filter losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.
- 7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



8. Since the non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



<u>1GHz-6.5GHz</u>

#### PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1254.5636	45.70	-1.56	44.14	74.00	-29.86	Vertical
2	1535.6339	51.52	-0.62	50.90	74.00	-23.10	Vertical
3	2373.3433	45.45	4.82	50.27	74.00	-23.73	Vertical
4	3617.9045	39.82	11.18	51.00	74.00	-23.00	Vertical
5	4823.0808	42.93	15.18	58.11	74.00	-15.89	Vertical
6	5927.6069	35.62	17.40	53.02	74.00	-20.98	Vertical

#### AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	4823.0808	33.59	15.18	48.77	54.00	-5.23	Horizontal

Remark: 1. Measurement = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. AVG: VBW refer to section 6.2.
- 6. For below 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band were not corrected for Band Reject Filter losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.
- 7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.
- 8. Since the non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



#### <u>6.5GHz-18GHz</u>



ΡK	Result.
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No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	7674.5843	42.79	5.27	48.06	74.00	-25.94	Horizontal
2	8045.5057	42.78	5.64	48.42	74.00	-25.58	Horizontal
3	11539.0674	41.08	7.69	48.77	74.00	-25.23	Horizontal
4	14689.0236	38.02	12.85	50.87	74.00	-23.13	Horizontal
5	16366.7958	37.91	15.01	52.92	74.00	-21.08	Horizontal
6	17626.2033	36.50	18.06	54.56	74.00	-19.44	Horizontal
7	17962.6203	35.35	19.63	54.98	74.00	-19.02	Horizontal

#### AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	17626.2033	26.16	18.06	44.22	54.00	-9.78	Horizontal
2	17962.6203	26.38	19.63	46.01	54.00	-7.99	Horizontal

Remark: 1. Measurement = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. AVG: VBW refer to section 6.2.
- 6. For above 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band were not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.
- 7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.
- 8. Since the non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



#### <u>6.5GHz-18GHz</u>



PN	Result.						
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	7972.1840	43.60	5.39	48.99	74.00	-25.01	Vertical
2	8794.5368	42.38	6.22	48.60	74.00	-25.40	Vertical
3	12834.4168	40.68	9.08	49.76	74.00	-24.24	Vertical
4	14032.0040	38.86	11.95	50.81	74.00	-23.19	Vertical
5	16694.5868	37.37	15.88	53.25	74.00	-20.75	Vertical
6	17631.9540	36.29	18.04	54.33	74.00	-19.67	Vertical
7	17935.3044	36.00	19.42	55.42	74.00	-18.58	Vertical

#### AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	17631.9540	25.99	18.04	44.03	54.00	-9.97	Vertical
2	17935.3044	26.40	19.42	45.82	54.00	-8.18	Vertical

Remark: 1. Measurement = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. AVG: VBW refer to section 6.2.
- 6. For above 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band were not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.
- 7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.
- 8. Since the non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



## 8.5. SPURIOUS EMISSIONS FOR SIMULTANEOUS TRANSMISSION

There are two modules installed in the host, one module can transmit 2.4G WiFi and the other module can transmit 2.4GHz WiFi simultaneously, so the spurious emission for simultaneous transmission was investigated in the report.

## TEST RESULT TABLE

1. For 1GHz to 6.5GHz part:

Environment Parameter	Selected Values During Tests
Relative Humidity	56%
Atmospheric Pressure:	101kPa
Temperature	22°C

Module	Test Mode	Channel	Puw(dBm)	Verdict	
Module 1	11B	2437	al insit	PASS	
Module 2	11B	2437	<liitiit< td=""></liitiit<>		

Note: Pre-testing all the combinations, the sate shown in the table is the worst case and recorded in this report.

## 2. For 6.5GHz to 18GHz part:

Environment Parameter	Selected Values During Tests
Relative Humidity	56%
Atmospheric Pressure:	101kPa
Temperature	22°C

Module	Test Mode	Channel	Puw(dBm)	Verdict	
Module 1	11B	2437	al imit	PASS	
Module 2	11B	2437	< <b>L</b> IIIII	FA33	

Note: Pre-testing all the combinations, the sate shown in the table is the worst case and recorded in this report.



### PART 1: 1GHz~6.5GHz

Module		Test	Mode	C	han	nel	Pola	ariza	ation	V	erdict
Module 1		1	1B		243	57	Но	rizo	ntal	P	2224
Module 2		1	1B		243	57	110	1120	intai	•	700
80 70 60 50 40 20 10 0	1	ni ya dan sa da			3	4		5			650
16			4	<u>(</u> G	-	j en eufilei	6	4	46	90	6.5G

## PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1255.0944	47.65	-1.57	46.08	74.00	-27.92	Horizontal
2	1535.6295	53.12	-0.62	52.50	74.00	-21.50	Horizontal
3	2313.2892	48.09	4.46	52.55	74.00	-21.45	Horizontal
4	2512.0015	45.96	5.86	51.82	74.00	-22.18	Horizontal
5	3693.2742	40.67	11.73	52.40	74.00	-21.60	Horizontal
6	4924.0530	42.91	15.34	58.25	74.00	-15.75	Horizontal

#### AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	4924.0530	34.49	15.34	49.83	54.00	-4.17	Horizontal

Note: 1. Measurement = Reading Level + Correct Factor,

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. For below 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Module	Test Mode	Channel	Polarization	Verdict
Module 1	11B	2437	Vertical	DACC
Module 2	11B	2437	venicai	PASS



PK	Result:						
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1255.0944	47.49	-1.57	45.92	74.00	-28.08	Vertical
2	1393.9867	44.94	-1.34	43.60	74.00	-30.40	Vertical
3	1535.6295	54.20	-0.62	53.58	74.00	-20.42	Vertical
4	2314.6643	46.53	4.53	51.06	74.00	-22.94	Vertical
5	2503.7505	44.43	5.89	50.32	74.00	-23.68	Vertical
6	4924.0530	39.40	15.34	54.74	74.00	-19.26	Vertical

#### AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	4924.0530	32.69	15.34	48.03	54.00	-5.97	Vertical

Note: 1. Measurement = Reading Level + Correct Factor,

- Correct Factor = Antenna Factor + Loss (Cable + Filter) Amplifier Gain.
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. For below 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



## PART 2: 6.5GHz~18GHz



#### PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	7654.4568	42.66	5.28	47.94	74.00	-26.06	Horizontal
2	8072.8216	42.43	5.63	48.06	74.00	-25.94	Horizontal
3	9513.3767	40.96	6.33	47.29	74.00	-26.71	Horizontal
4	13551.8190	39.94	10.78	50.72	74.00	-23.28	Horizontal
5	16430.0538	37.98	15.43	53.41	74.00	-20.59	Horizontal
6	17679.3974	36.31	18.11	54.42	74.00	-19.58	Horizontal
7	17971.2464	36.10	19.65	55.75	74.00	-18.25	Horizontal

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	17679.3974	26.72	18.11	44.83	54.00	-9.17	Horizontal
2	17971.2464	27.01	19.65	46.66	54.00	-7.34	Horizontal

Note: 1. Measurement = Reading Level + Correct Factor,

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
- 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
- 5. For above 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Module	Test Mode	Channel	Polarization	Verdict
Module 1	11B	2437	Vortical	DVCC
Module 2	11B	2437	ventical	FA35



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark	
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]		
1	8381.9227	43.06	5.79	48.85	74.00	-25.15	Vertical	
2	9198.5248	42.95	6.02	48.97	74.00	-25.03	Vertical	
3	10804.4131	41.70	6.96	48.66	74.00	-25.34	Vertical	
4	16256.0945	38.18	15.22	53.40	74.00	-20.60	Vertical	
5	17167.5834	38.12	16.47	54.59	74.00	-19.41	Vertical	
6	17693.7742	36.48	18.21	54.69	74.00	-19.31	Vertical	
7	17981.3102	35.71	19.80	55.51	74.00	-18.49	Vertical	

#### AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark	
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]		
1	17167.5834	27.16	16.47	43.63	54.00	-10.37	Vertical	
2	17693.7742	26.71	18.21	44.92	54.00	-9.08	Vertical	
3	17981.3102	26.64	19.80	46.44	54.00	-7.56	Vertical	

Note: 1. Measurement = Reading Level + Correct Factor,

- Correct Factor = Antenna Factor + Loss (Cable + Filter) Amplifier Gain.
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
- 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
- 5. For above 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



# 9. AC POWER LINE CONDUCTED EMISSIONS

## LIMITS

## Please refer to FCC §15.207 (a)

	Limit (dBuV)					
	Quasi-peak	Average				
0.15 -0.5	66 - 56 *	56 - 46 *				
0.50 -5.0	56.00	46.00				
5.0 -30.0	60.00	50.00				

## TEST SETUP AND PROCEDURE



The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through an Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.



### TEST ENVIRONMENT

Temperature	22°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V

### LINE L RESULTS (WORST-CASE CONFIGURATION)



## Final\_Result

Frequency [MHz]	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Line	Filter	Corr. [dB]
0.174875		22.04	54.73	32.69	1000.0	9.000	L1	OFF	9.6
0.174875	37.38		64.73	27.34	1000.0	9.000	L1	OFF	9.6
0.557950		20.03	46.00	25.97	1000.0	9.000	L1	OFF	9.5
0.557950	28.17		56.00	27.83	1000.0	9.000	L1	OFF	9.5
0.622625		19.76	46.00	26.24	1000.0	9.000	L1	OFF	9.5
0.622625	31.81		56.00	24.19	1000.0	9.000	L1	OFF	9.5
1.232063		19.42	46.00	26.58	1000.0	9.000	L1	OFF	9.5
1.232063	34.57		56.00	21.43	1000.0	9.000	L1	OFF	9.5
2.398700		19.45	46.00	26.55	1000.0	9.000	L1	OFF	9.5
2.398700	27.02		56.00	28.98	1000.0	9.000	L1	OFF	9.5
2.475813		16.32	46.00	29.68	1000.0	9.000	L1	OFF	9.5
2.475813	26.43		56.00	29.57	1000.0	9.000	L1	OFF	9.5

Note: 1. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

- 2. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
- 3. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.
- 4. The extension cord/outlet strip was calibrated with the LISN as required by ANSI C63.10:2013 Clause 6.2.2.
- 5. Pre-testing all test modes and channels, and find the MCH of 11B which is the worst case, so only the worst case is included in this test report.
- 6. Two models of docker will be collocated to the EUT, both of them have been test, only the worse case is recorded in this test report.





## LINE N RESULTS (WORST-CASE CONFIGURATION)

## Final\_Result

Frequency [MHz]	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Line	Filter	Corr. [dB]
0.150000		24.52	56.00	31.48	1000.0	9.000	Ν	OFF	9.6
0.150000	40.85		66.00	25.15	1000.0	9.000	Ν	OFF	9.6
0.622625		18.02	46.00	27.98	1000.0	9.000	Ν	OFF	9.5
0.622625	36.27		56.00	19.73	1000.0	9.000	Ν	OFF	9.5
1.179825		14.16	46.00	31.84	1000.0	9.000	N	OFF	9.4
1.179825	27.46		56.00	28.54	1000.0	9.000	N	OFF	9.4
2.443475		22.24	46.00	23.76	1000.0	9.000	N	OFF	9.4
2.443475	36.70		56.00	19.30	1000.0	9.000	N	OFF	9.4
3.256888		21.45	46.00	24.55	1000.0	9.000	N	OFF	9.4
3.256888	32.12		56.00	23.88	1000.0	9.000	Ν	OFF	9.4
4.809088		17.98	46.00	28.02	1000.0	9.000	Ν	OFF	9.4
4.809088	28.12		56.00	27.88	1000.0	9.000	Ν	OFF	9.4

Note: 1. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

- 2. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
- 3. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.
- 4. The extension cord/outlet strip was calibrated with the LISN as required by ANSI C63.10:2013 Clause 6.2.2.
- 5. Pre-testing all test modes and channels, and find the MCH of 11B which is the worst case, so only the worst case is included in this test report.
- 6. Two models of docker will be collocated to the EUT, both of them have been test, only the worse case is recorded in this test report.



## **10. ANTENNA REQUIREMENTS**

## APPLICABLE REQUIREMENTS

#### Please refer to FCC §15.203

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.

### Please refer to FCC §15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### ANTENNA GAIN

The antenna gain of EUT is less than 6 dBi

# **END OF REPORT**