



ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

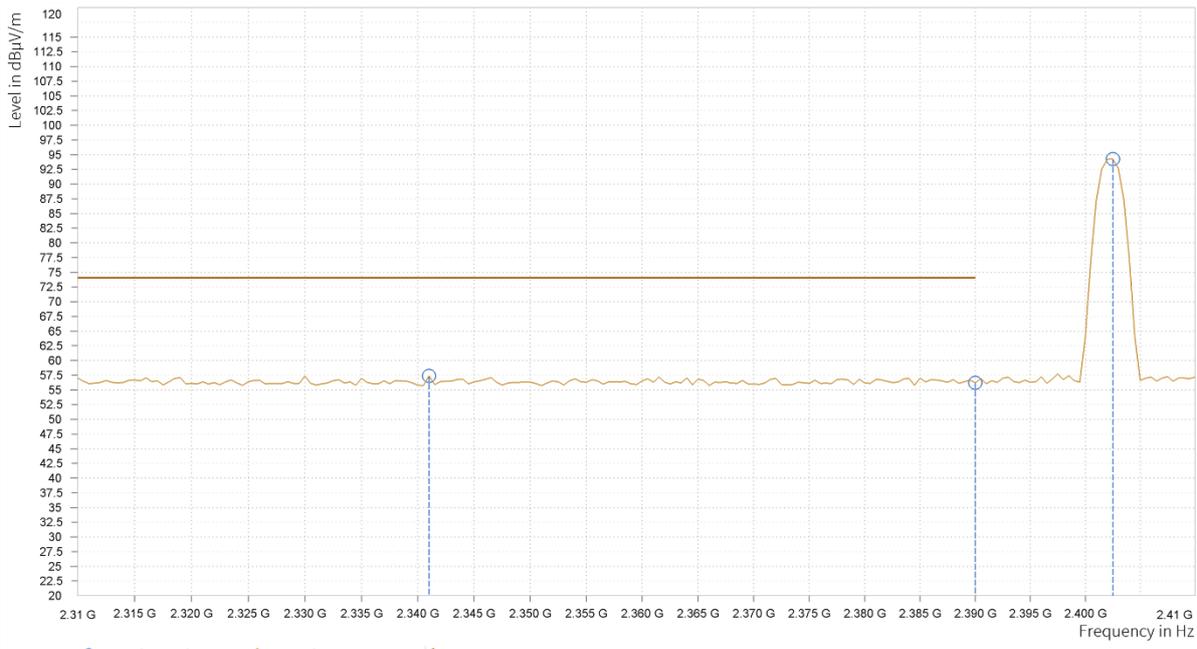
Rg	Frequency [MHz]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	2,389.000	42.39	54.00	11.61	37.08	H	359	2.00
5	2,390.000	42.41	54.00	11.59	37.10	H	359.1	1.00
5	2,402.500	83.27			37.27	H	184.8	2.00





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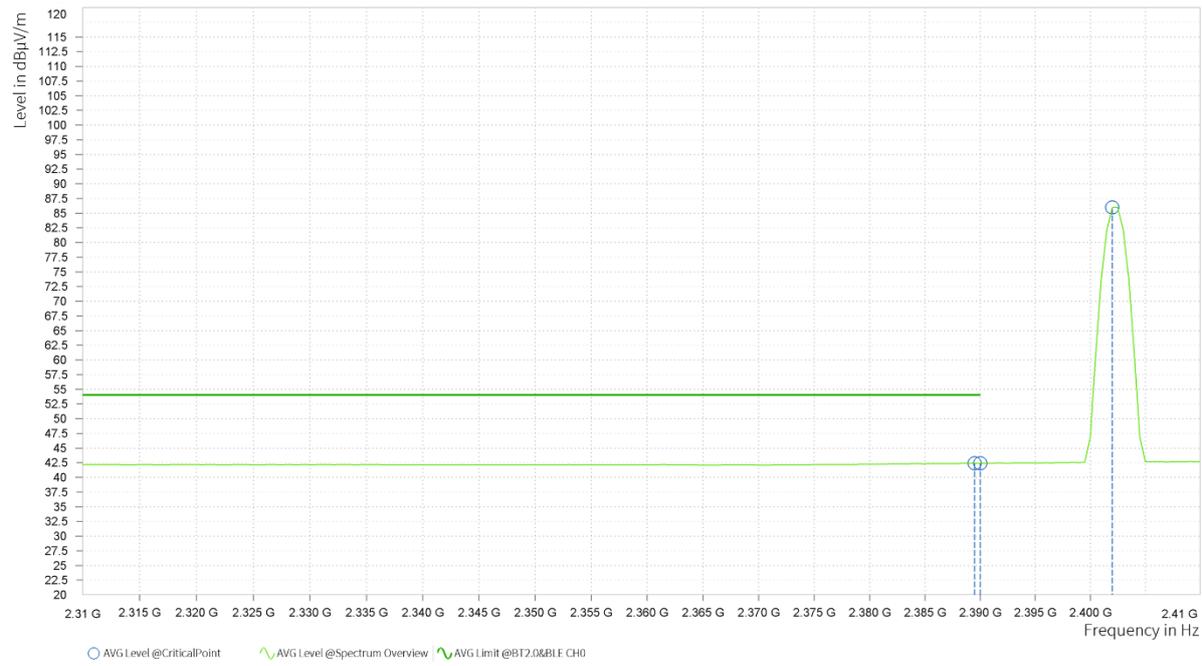
Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	2,341.000	57.39	74.00	16.61	36.90	V	220.7	1.00
5	2,390.000	56.21	74.00	17.79	37.10	V	1	1.00
5	2,402.500	94.27			37.27	V	107.1	2.00





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Rg	Frequency [MHz]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	2,389.500	42.40	54.00	11.60	37.09	V	10.7	2.00
5	2,390.000	42.38	54.00	11.62	37.10	V	40.2	1.00
5	2,402.000	85.97			37.26	V	85.7	1.00



REMARKS:

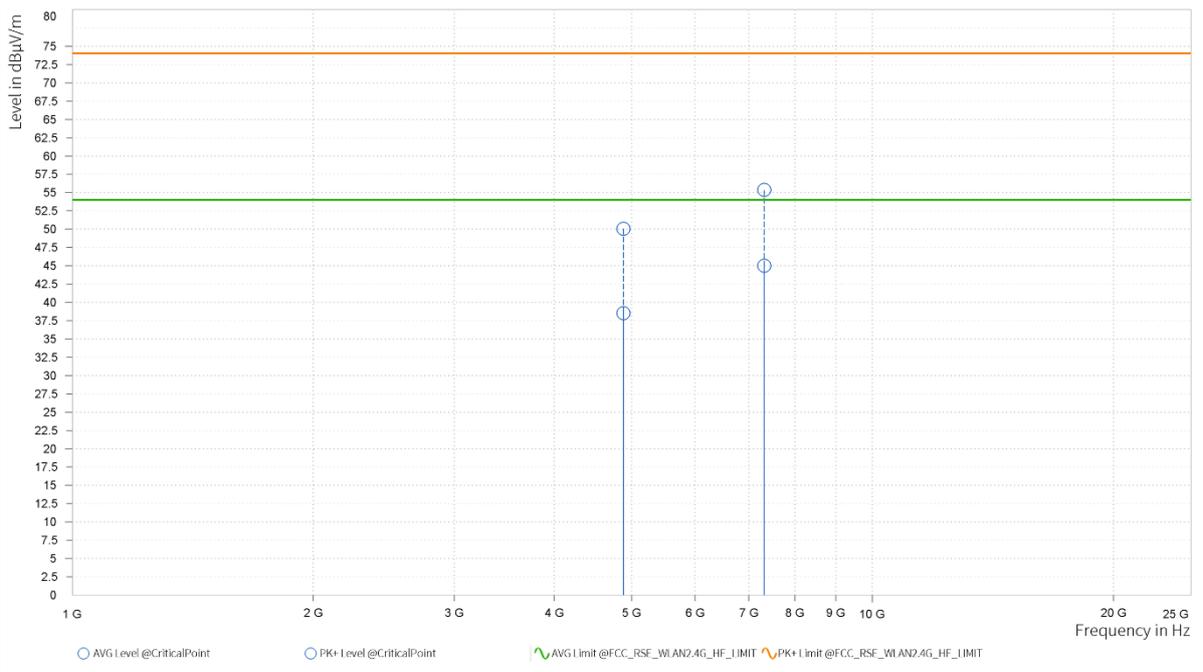
- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
- Margin value = Limit value – Emission level.
- 2402MHz: Fundamental frequency.



CHANNEL	TX Channel 39	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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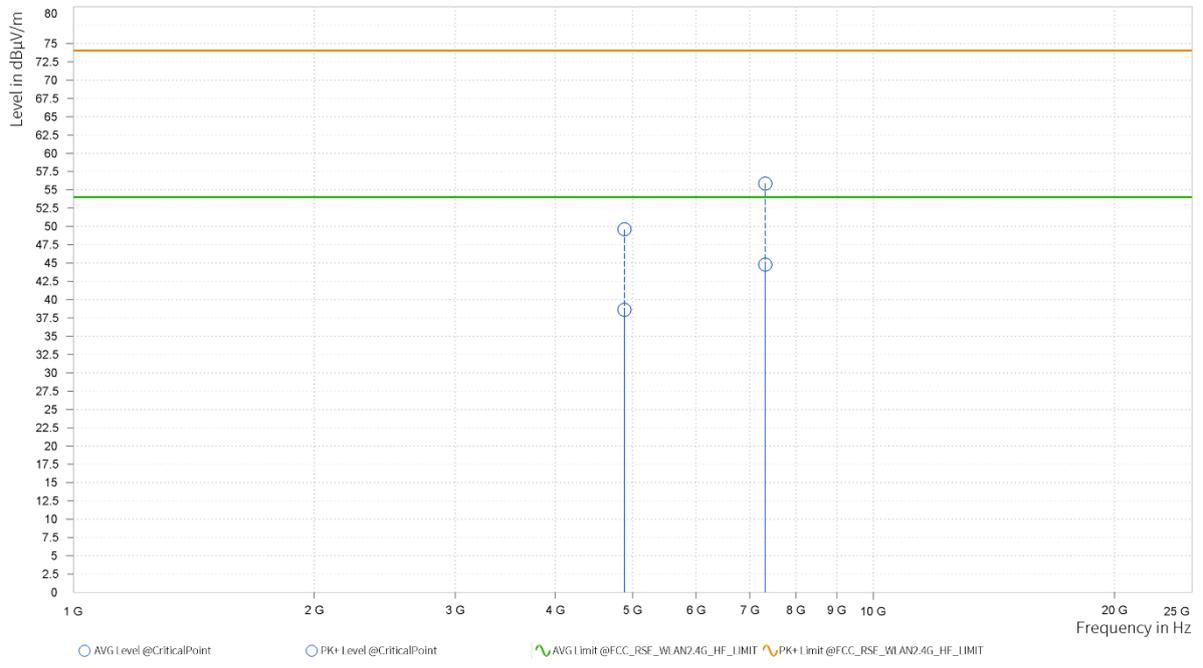
Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	4,882.000	50.08	74.00	23.92	38.53	54.00	15.47	14.77	H	13.4	2.00
2	7,323.000	55.36	74.00	18.64	44.99	54.00	9.01	21.12	H	13.4	2.00





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Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	4,882.000	49.60	74.00	24.40	38.59	54.00	15.41	14.77	V	349.4	1.00
2	7,323.000	55.89	74.00	18.11	44.80	54.00	9.20	21.12	V	349.4	1.00

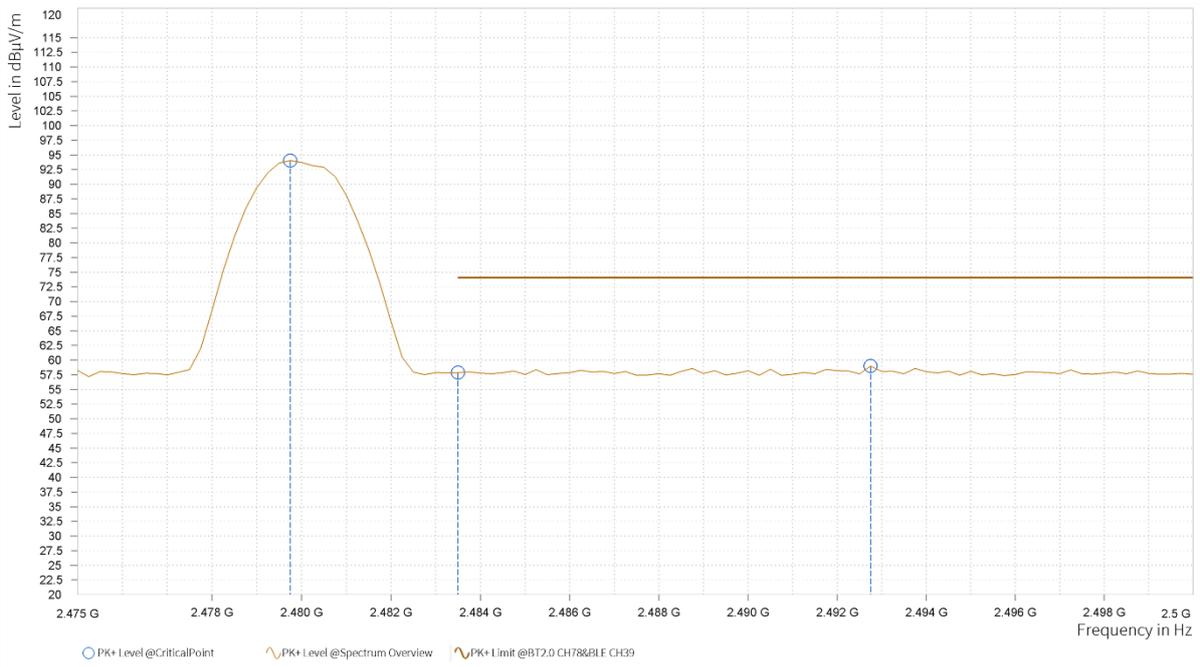




CHANNEL	TX Channel 78	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

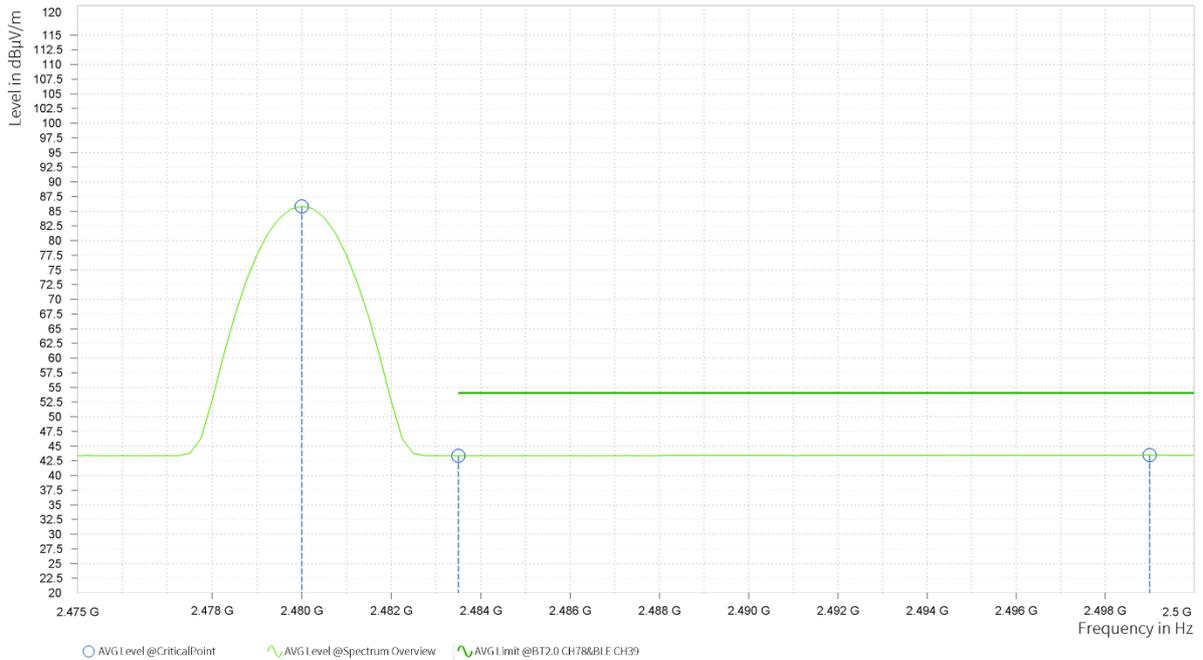
Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	2,479.750	94.02			37.87	H	355	2.00
6	2,483.500	57.85	74.00	16.15	37.88	H	89.2	1.00
6	2,492.750	58.97	74.00	15.03	37.90	H	1	2.00





ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

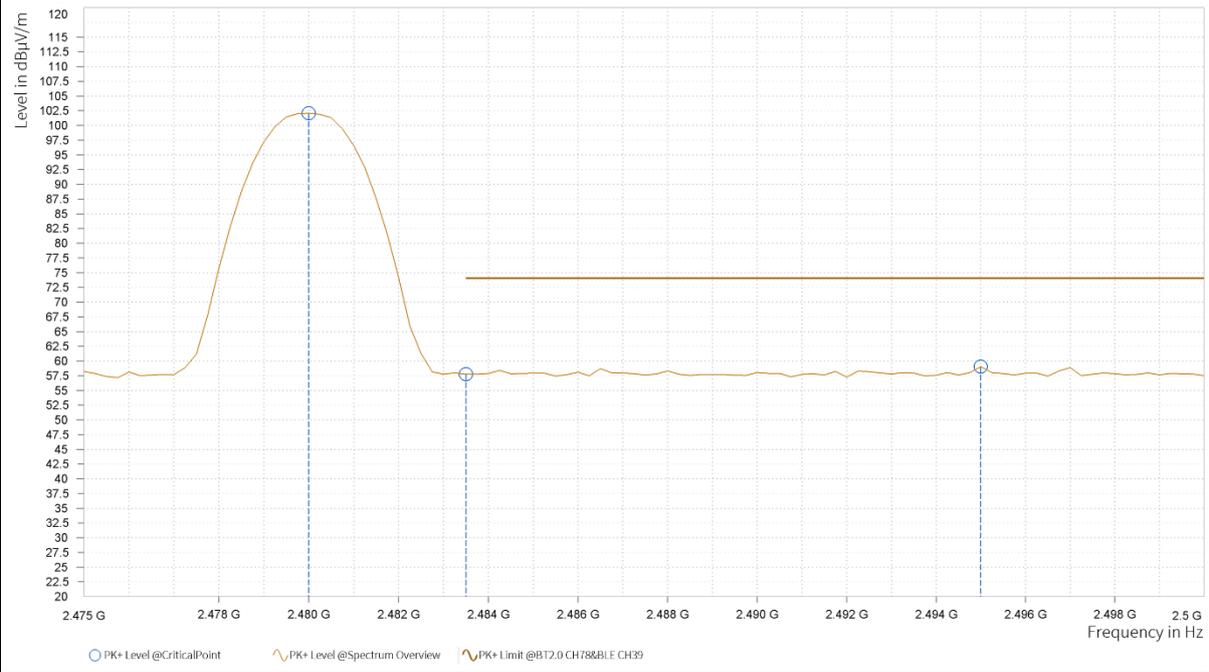
Rg	Frequency [MHz]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	2,480.000	85.83			37.87	H	34.2	2.00
6	2,483.500	43.38	54.00	10.62	37.88	H	273.3	2.00
6	2,499.000	43.45	54.00	10.55	37.91	H	226.7	2.00

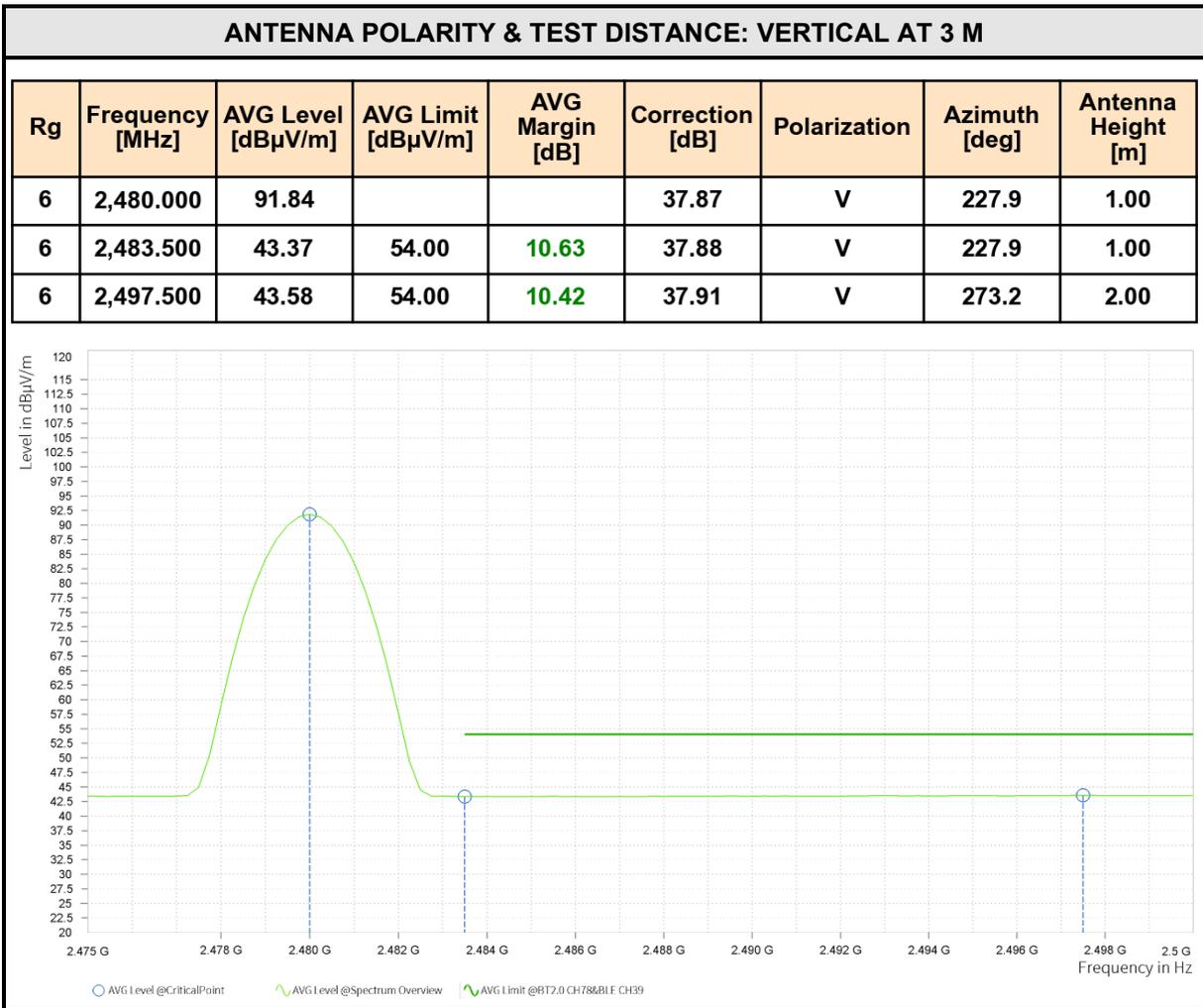




ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	2,480.000	102.06			37.87	V	131	2.00
6	2,483.500	57.75	74.00	16.25	37.88	V	354.9	2.00
6	2,495.000	59.04	74.00	14.96	37.90	V	85.6	2.00





REMARKS:

4. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
5. Margin value = Limit value – Emission level.
6. 2402MHz: Fundamental frequency.

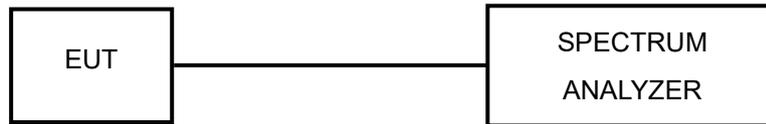


6.3 NUMBER OF HOPPING FREQUENCY USED

3.3.1 LIMIT OF HOPPING FREQUENCY USED

At least 15 channels frequencies, and should be equally spaced.

3.3.2 TEST SETUP



**3.3.3 TEST INSTRUMENTS**

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	R&S	ESW 44	101973	Mar.28,24	Mar.27,26
Open Switch and Control Unit	R&S	OSP-B157W8	100836	N/A	N/A
Vector Signal Generator	R&S	SMBV100B	102176	Mar.29,24	Mar.28,26
Signal Generator	R&S	SMB100A03	182185	Mar.29,24	Mar.28,26
WIDEBANDRADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.19,24	Jun.18,26
Hygrothermograph	DELI	20210528	SZ015	Mar.18,25	Mar.17,27
PC	LENOVO	E14	HRSW0024	N/A	N/A
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Apr.26,25	Apr.25,26
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Apr.26,25	Apr.25,26
Test Software	EMC32	EMC32	N/A	N/A	N/A
Temperature Chamber	votsch	VT4002	58566078100050	May.30,24	May.29,26
Power Meter	R&S	NRX	102380	Mar.28,24	Mar.27,26
Power Meter probe	R&S	NRP6A	102942	Mar.28,24	Mar.27,26

NOTE:

1. The calibration interval of the above test instruments is 12 /24 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in RF Oven room.



3.3.4 TEST PROCEDURES

- a. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- c. Set the SA on MaxHold Mode, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been recorded.
- d. Set the SA on View mode and then plot the result on SA screen.
- e. Repeat above procedures until all frequencies measured were completed.

3.3.5 DEVIATION FROM TEST STANDARD

No deviation.

3.3.6 TEST RESULTS

There are 79 hopping frequencies in the hopping mode. Please refer to next two pages for the test result. On the plots, it shows that the hopping frequencies are equally spaced.

Please Refer to Appendix of this test report.

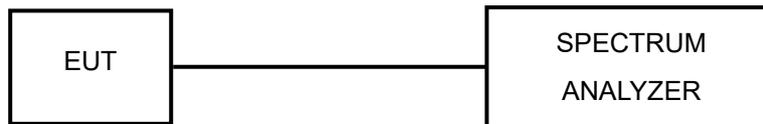


6.4 DWELL TIME ON EACH CHANNEL

3.4.1 LIMIT OF DWELL TIME USED

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

3.4.2 TEST SETUP



3.4.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.4.4 TEST PROCEDURES

- a. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- c. Adjust the center frequency of SA on any frequency be measured and set SA to zero span mode. And then, set RBW and VBW of spectrum analyzer to proper value.
- d. Measure the time duration of one transmission on the measured frequency. And then plot the result with time difference of this time duration.
- e. Repeat above procedures until all different time-slot modes have been completed.



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3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 TEST RESULTS

Please Refer to Appendix of this test report

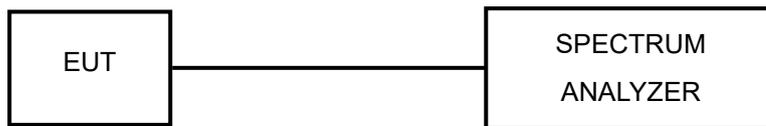


6.5 CHANNEL BANDWIDTH

3.5.1 LIMITS OF CHANNEL BANDWIDTH

For frequency hopping system operating in the 2400-2483.5MHz, If the 20dB bandwidth of hopping channel is greater than 25kHz, two-thirds 20dB bandwidth of hopping channel shall be a minimum limit for the hopping channel separation.

3.5.2 TEST SETUP



3.5.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.5.4 TEST PROCEDURE

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- d. Repeat above procedures until all frequencies measured were complete.

3.5.5 DEVIATION FROM TEST STANDARD

No deviation.



3.5.6 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

3.5.7 TEST RESULTS

Please Refer to Appendix of this test report.

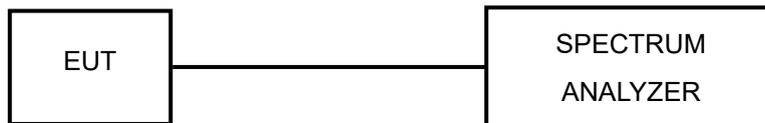


6.6 HOPPING CHANNEL SEPARATION

3.6.1 LIMIT OF HOPPING CHANNEL SEPARATION

At least 25kHz or two-third of 20dB hopping channel bandwidth (whichever is greater).

3.6.2 TEST SETUP



3.6.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.6.4 TEST PROCEDURES

- 1 Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2 Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range.
- 3 By using the MaxHold function record the separation of two adjacent channels.
- 4 Measure the frequency difference of these two adjacent channels by SA MARK function. And then plot the result on SA screen.
- 5 Repeat above procedures until all frequencies measured were complete.

3.6.1 DEVIATION FROM TEST STANDARD

No deviation.

3.6.2 TEST RESULTS

Please Refer to Appendix of this test report.

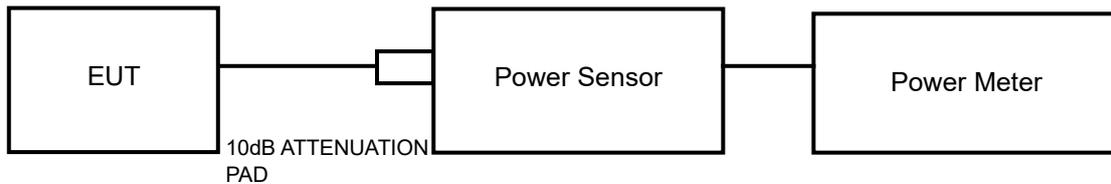


6.7 MAXIMUM OUTPUT POWER

3.7.1 LIMITS OF MAXIMUM OUTPUT POWER MEASUREMENT

The Maximum Output Power Measurement is 125mW.

3.7.2 TEST SETUP



3.7.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.7.4 TEST PROCEDURES

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.



3.7.5 DEVIATION FROM TEST STANDARD

No deviation.

3.7.6 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

3.7.7 TEST RESULTS

3.7.7.1 MAXIMUM PEAK OUTPUT POWER

Please Refer to Appendix of this test report.

3.7.7.2 AVERAGE OUTPUT POWER (FOR REFERENCE)

The average power sensor was used on the output port of the EUT. A power meter was used to read the response of the power sensor. Record the power level.

Please Refer to Appendix of this test report.



6.8 OUT OF BAND MEASUREMENT

3.8.1 LIMITS OF OUT OF BAND MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100KHz RBW).

3.8.2 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.8.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low loss cable. Spectrum Analyzer was set RBW to 100 kHz and VBW to 300 kHz with suitable frequency span including 100 MHz bandwidth from band edge. Detector = PEAK and Trace mode = Max Hold. The band edges was measured and recorded.

3.8.4 DEVIATION FROM TEST STANDARD

No deviation.

3.8.5 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

3.8.6 TEST RESULTS

The spectrum plots are attached on the following images. D1 line indicates the highest level. D2 line indicates the 20dB offset below D1. It shows compliance to the requirement.

Please Refer to Appendix of this test report.



4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



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5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

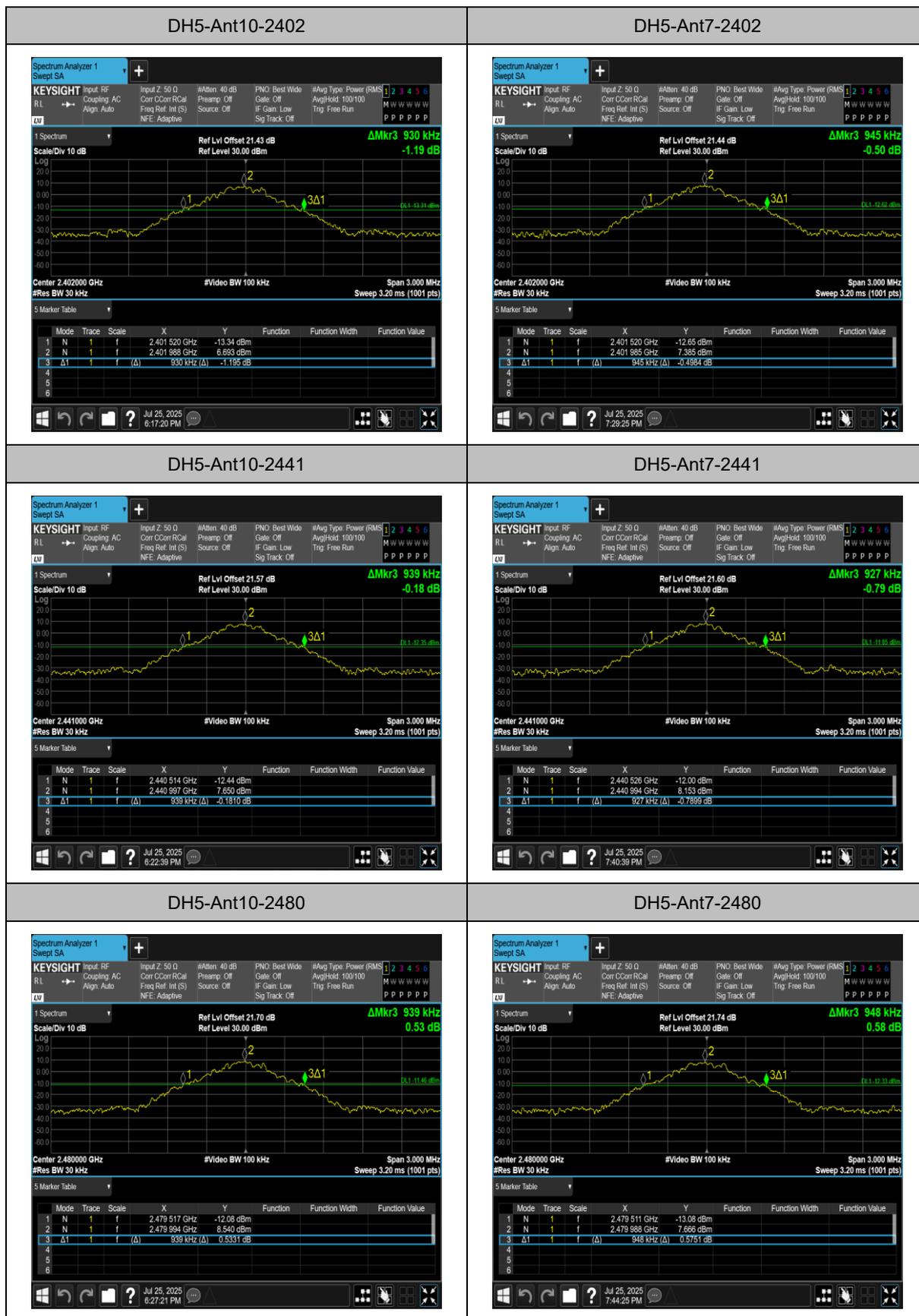


6 Appendix

20DB EMISSION BANDWIDTH

TEST RESULT

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant10	2402	0.930	2401.520	2402.450	---	---
DH5	Ant7	2402	0.945	2401.520	2402.465	---	---
DH5	Ant10	2441	0.939	2440.514	2441.453	---	---
DH5	Ant7	2441	0.927	2440.526	2441.453	---	---
DH5	Ant10	2480	0.939	2479.517	2480.456	---	---
DH5	Ant7	2480	0.948	2479.511	2480.459	---	---
2DH5	Ant10	2402	1.341	2401.301	2402.642	---	---
2DH5	Ant7	2402	1.314	2401.319	2402.633	---	---
2DH5	Ant10	2441	1.293	2440.340	2441.633	---	---
2DH5	Ant7	2441	1.338	2440.307	2441.645	---	---
2DH5	Ant10	2480	1.314	2479.316	2480.630	---	---
2DH5	Ant7	2480	1.335	2479.304	2480.639	---	---
3DH5	Ant10	2402	1.296	2401.328	2402.624	---	---
3DH5	Ant7	2402	1.308	2401.322	2402.630	---	---
3DH5	Ant10	2441	1.308	2440.328	2441.636	---	---
3DH5	Ant7	2441	1.293	2440.325	2441.618	---	---
3DH5	Ant10	2480	1.308	2479.325	2480.633	---	---
3DH5	Ant7	2480	1.308	2479.322	2480.630	---	---





2DH5-Ant10-2402



2DH5-Ant7-2402



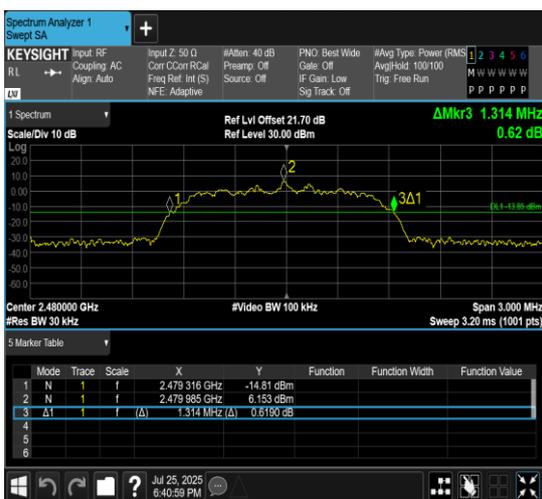
2DH5-Ant10-2441



2DH5-Ant7-2441



2DH5-Ant10-2480



2DH5-Ant7-2480



3DH5-Ant10-2402



3DH5-Ant7-2402





3DH5-Ant10-2441



3DH5-Ant7-2441



3DH5-Ant10-2480



3DH5-Ant7-2480

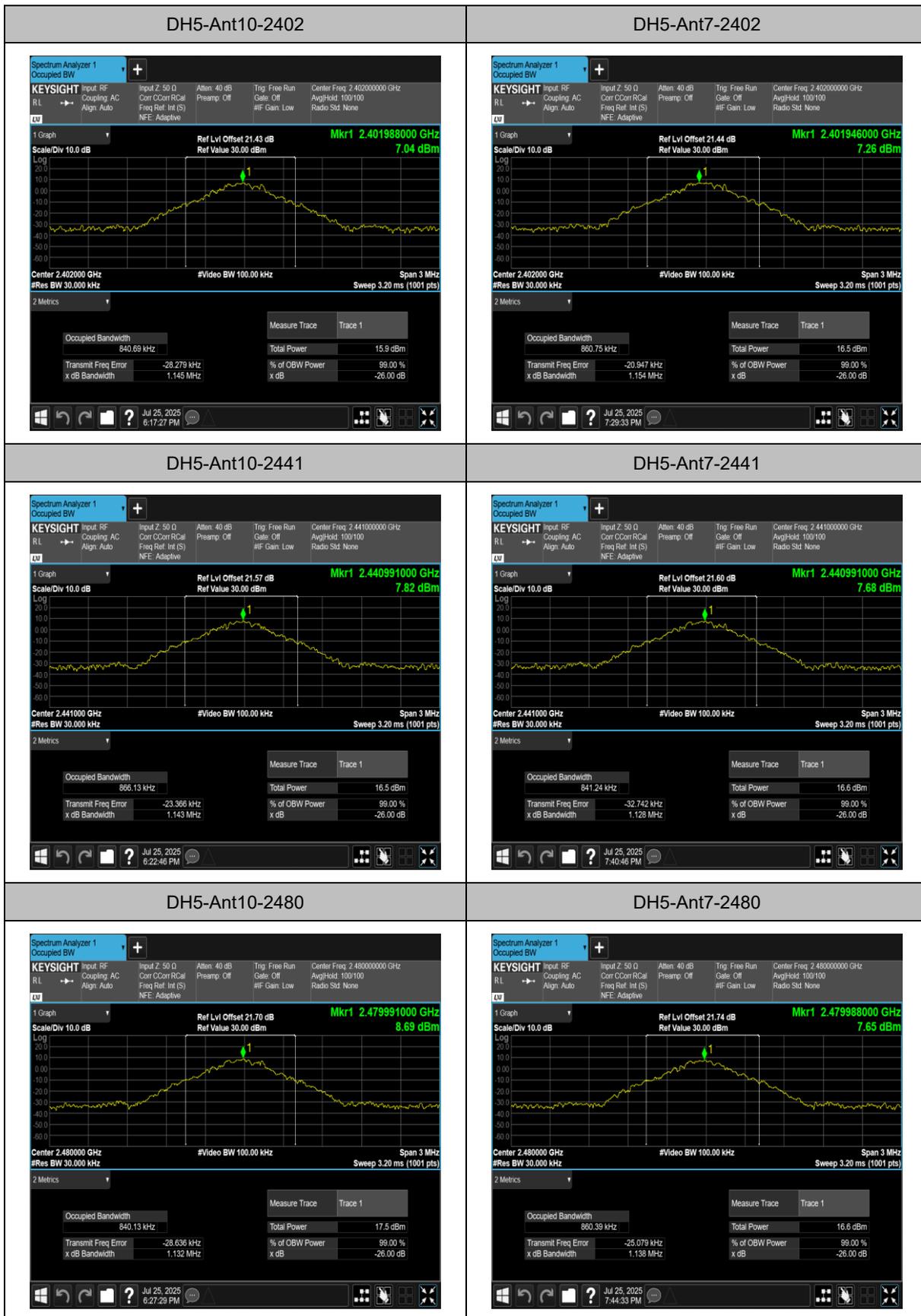




OCCUPIED CHANNEL BANDWIDTH

TEST RESULT

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant10	2402	0.84069	2401.5514	2402.3921	---	---
DH5	Ant7	2402	0.86075	2401.5487	2402.4094	---	---
DH5	Ant10	2441	0.86613	2440.5436	2441.4097	---	---
DH5	Ant7	2441	0.84124	2440.5466	2441.3879	---	---
DH5	Ant10	2480	0.84013	2479.5513	2480.3914	---	---
DH5	Ant7	2480	0.86039	2479.5447	2480.4051	---	---
2DH5	Ant10	2402	1.1945	2401.3766	2402.5711	---	---
2DH5	Ant7	2402	1.1933	2401.3810	2402.5743	---	---
2DH5	Ant10	2441	1.1869	2440.3807	2441.5676	---	---
2DH5	Ant7	2441	1.1896	2440.3816	2441.5712	---	---
2DH5	Ant10	2480	1.1900	2479.3794	2480.5694	---	---
2DH5	Ant7	2480	1.1960	2479.3781	2480.5741	---	---
3DH5	Ant10	2402	1.2052	2401.3730	2402.5782	---	---
3DH5	Ant7	2402	1.1916	2401.3768	2402.5684	---	---
3DH5	Ant10	2441	1.1913	2440.3782	2441.5695	---	---
3DH5	Ant7	2441	1.1975	2440.3747	2441.5722	---	---
3DH5	Ant10	2480	1.1984	2479.3719	2480.5703	---	---
3DH5	Ant7	2480	1.2026	2479.3713	2480.5739	---	---





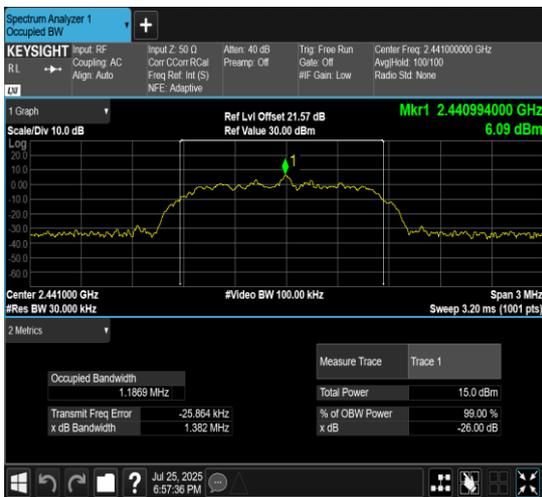
2DH5-Ant10-2402



2DH5-Ant7-2402



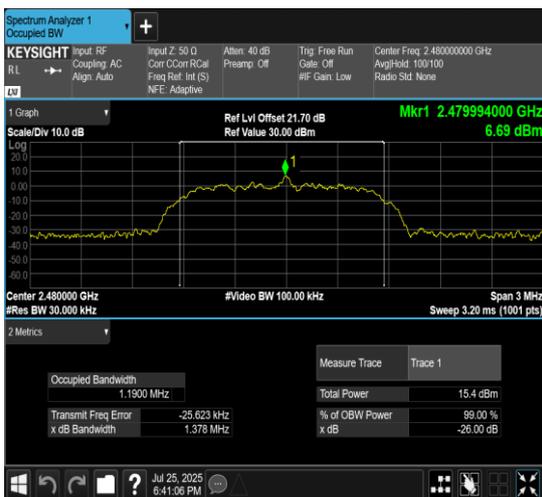
2DH5-Ant10-2441



2DH5-Ant7-2441



2DH5-Ant10-2480



2DH5-Ant7-2480

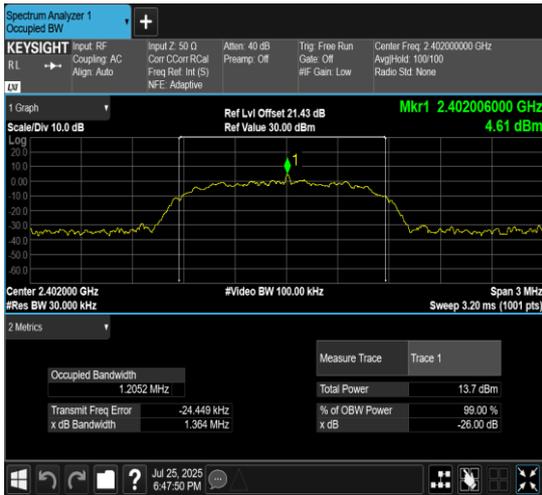


3DH5-Ant10-2402



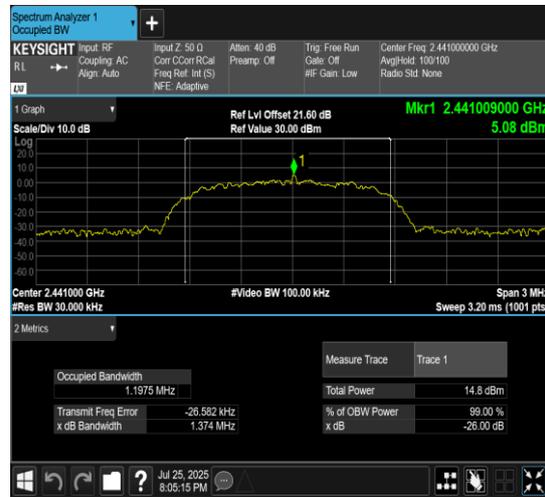
3DH5-Ant7-2402





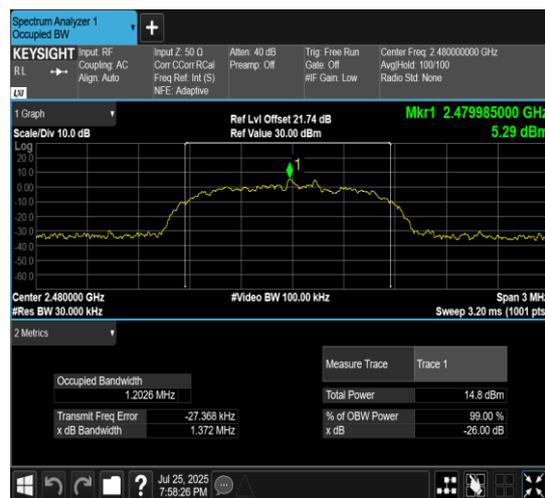
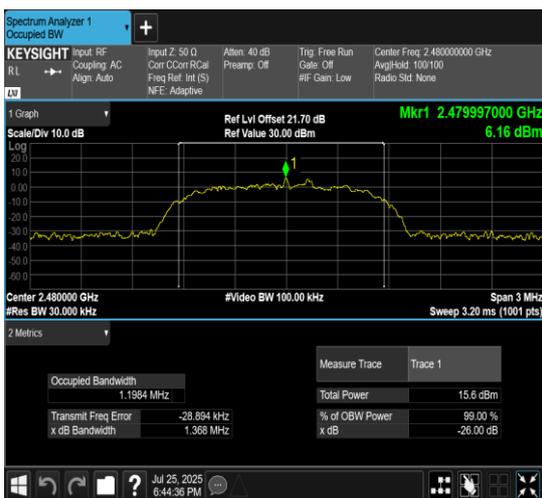
3DH5-Ant10-2441

3DH5-Ant7-2441



3DH5-Ant10-2480

3DH5-Ant7-2480





MAXIMUM CONDUCTED OUTPUT POWER

TEST RESULT PEAK

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict	Power Setting [dBm]
DH5	Ant10	2402	10.05	≤30.00	PASS	9
DH5	Ant7	2402	10.00	≤30.00	PASS	9
DH5	Ant10	2441	10.13	≤30.00	PASS	9
DH5	Ant7	2441	10.60	≤30.00	PASS	9
DH5	Ant10	2480	10.46	≤30.00	PASS	9
DH5	Ant7	2480	10.69	≤30.00	PASS	9
2DH5	Ant10	2402	8.76	≤30.00	PASS	9
2DH5	Ant7	2402	9.76	≤30.00	PASS	9
2DH5	Ant10	2441	9.77	≤30.00	PASS	9
2DH5	Ant7	2441	10.34	≤30.00	PASS	9
2DH5	Ant10	2480	10.17	≤30.00	PASS	9
2DH5	Ant7	2480	10.49	≤30.00	PASS	9
3DH5	Ant10	2402	9.05	≤30.00	PASS	9
3DH5	Ant7	2402	10.13	≤30.00	PASS	9
3DH5	Ant10	2441	10.07	≤30.00	PASS	9
3DH5	Ant7	2441	10.71	≤30.00	PASS	9
3DH5	Ant10	2480	10.61	≤30.00	PASS	9
3DH5	Ant7	2480	10.88	≤30.00	PASS	9



Test Mode	Antenna	Frequency [MHz]	Conducted Sensor power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Gain [dB]	EIRP [dBm]	EIRP Limit [dBm]	Verdict	Power Setting [dBm]
DH5	Ant10	2402	7.97	76.80	1.15	9.12	≤30.00	1.60	10.72	≤36.00	PASS	9
DH5	Ant7	2402	7.65	77.07	1.13	8.78	≤30.00	1.60	10.38	≤36.00	PASS	9
DH5	Ant10	2441	8.08	76.80	1.15	9.23	≤30.00	1.60	10.83	≤36.00	PASS	9
DH5	Ant7	2441	7.56	77.07	1.13	8.69	≤30.00	1.60	10.29	≤36.00	PASS	9
DH5	Ant10	2480	8.06	76.80	1.15	9.21	≤30.00	1.60	10.81	≤36.00	PASS	9
DH5	Ant7	2480	8.00	77.07	1.13	9.13	≤30.00	1.60	10.73	≤36.00	PASS	9
2DH5	Ant10	2402	4.02	77.07	1.13	5.15	≤30.00	1.60	6.75	≤36.00	PASS	9
2DH5	Ant7	2402	5.01	77.07	1.13	6.14	≤30.00	1.60	7.74	≤36.00	PASS	9
2DH5	Ant10	2441	5.08	77.07	1.13	6.21	≤30.00	1.60	7.81	≤36.00	PASS	9
2DH5	Ant7	2441	5.60	77.07	1.13	6.73	≤30.00	1.60	8.33	≤36.00	PASS	9
2DH5	Ant10	2480	5.45	77.07	1.13	6.58	≤30.00	1.60	8.18	≤36.00	PASS	9
2DH5	Ant7	2480	5.47	77.07	1.13	6.60	≤30.00	1.60	8.20	≤36.00	PASS	9
3DH5	Ant10	2402	4.04	76.86	1.14	5.18	≤30.00	1.60	6.78	≤36.00	PASS	9
3DH5	Ant7	2402	5.11	77.07	1.13	6.24	≤30.00	1.60	7.84	≤36.00	PASS	9
3DH5	Ant10	2441	4.96	76.86	1.14	6.10	≤30.00	1.60	7.70	≤36.00	PASS	9



BUREAU
VERITAS

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3DH 5	Ant7	2441	5.63	77.0 7	1.13	6.76	≤30. 00	1.6 0	8.36	≤36. 00	PAS S	9
3DH 5	Ant10	2480	5.44	76.8 6	1.14	6.58	≤30. 00	1.6 0	8.18	≤36. 00	PAS S	9
3DH 5	Ant7	2480	5.49	77.0 7	1.13	6.62	≤30. 00	1.6 0	8.22	≤36. 00	PAS S	9



CARRIER FREQUENCY SEPARATION

TEST RESULT

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant10	Hop	1.144	≥0.939	PASS
DH5	Ant7	Hop	0.980	≥0.948	PASS
2DH5	Ant10	Hop	0.982	≥0.894	PASS
2DH5	Ant7	Hop	0.966	≥0.892	PASS
3DH5	Ant10	Hop	1.152	≥0.872	PASS
3DH5	Ant7	Hop	0.928	≥0.872	PASS

TEST GRAPHS







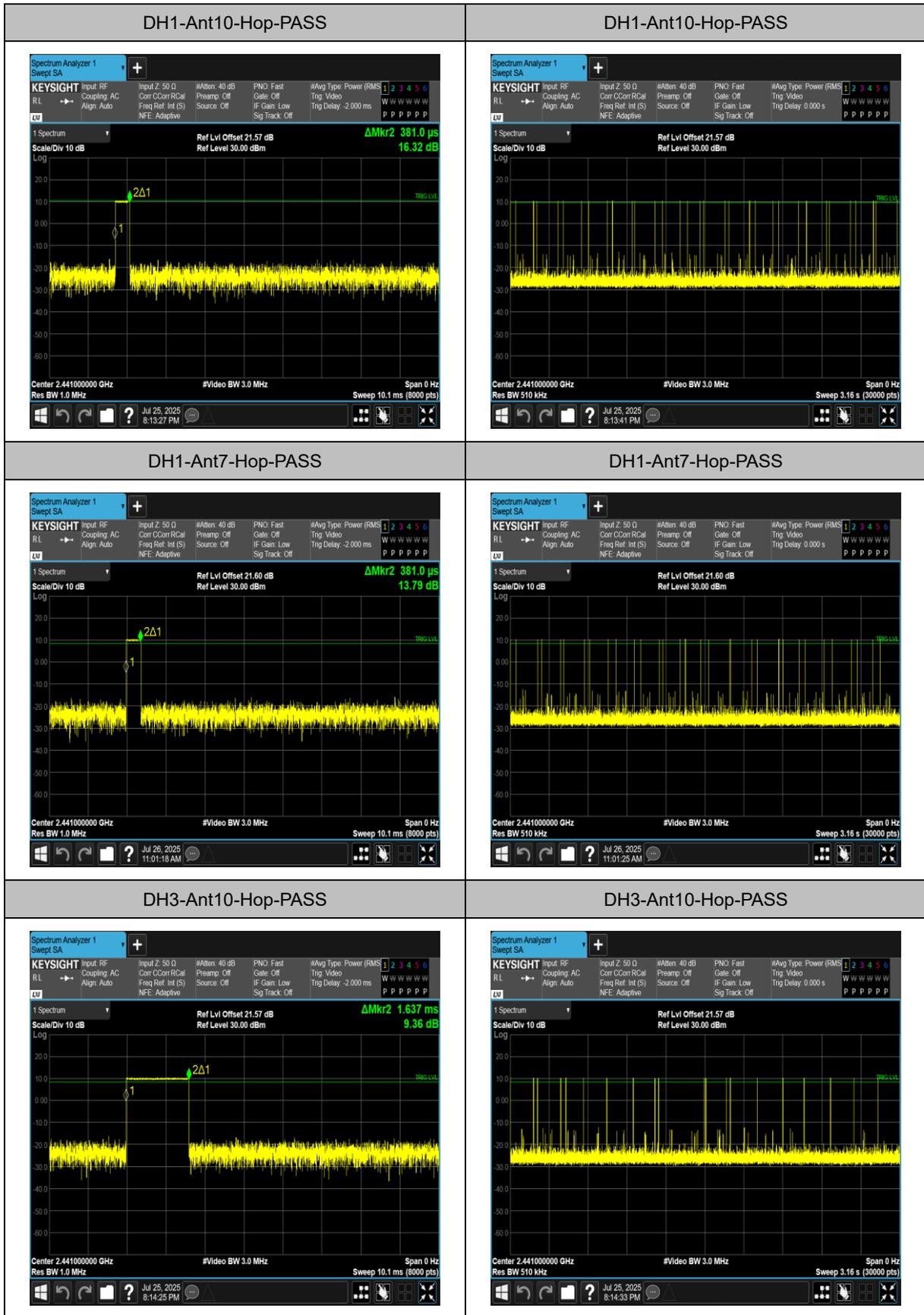
TIME OF OCCUPANCY

TEST RESULT

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant10	Hop	0.381	330	0.126	≤0.4	PASS
DH1	Ant7	Hop	0.381	320	0.122	≤0.4	PASS
DH3	Ant10	Hop	1.637	200	0.327	≤0.4	PASS
DH3	Ant7	Hop	1.637	160	0.262	≤0.4	PASS
DH5	Ant10	Hop	2.884	80	0.231	≤0.4	PASS
DH5	Ant7	Hop	2.884	80	0.231	≤0.4	PASS
2DH1	Ant10	Hop	0.386	320	0.124	≤0.4	PASS
2DH1	Ant7	Hop	0.386	330	0.127	≤0.4	PASS
2DH3	Ant10	Hop	1.638	180	0.295	≤0.4	PASS
2DH3	Ant7	Hop	1.638	160	0.262	≤0.4	PASS
2DH5	Ant10	Hop	2.885	70	0.202	≤0.4	PASS
2DH5	Ant7	Hop	2.885	120	0.346	≤0.4	PASS
3DH1	Ant10	Hop	0.385	330	0.127	≤0.4	PASS
3DH1	Ant7	Hop	0.386	320	0.124	≤0.4	PASS
3DH3	Ant10	Hop	1.638	150	0.246	≤0.4	PASS
3DH3	Ant7	Hop	1.638	150	0.246	≤0.4	PASS
3DH5	Ant10	Hop	2.888	80	0.231	≤0.4	PASS
3DH5	Ant7	Hop	2.888	100	0.289	≤0.4	PASS



TEST GRAPHS





DH3-Ant7-Hop-PASS



DH3-Ant7-Hop-PASS



DH5-Ant10-Hop-PASS



DH5-Ant10-Hop-PASS



DH5-Ant7-Hop-PASS



DH5-Ant7-Hop-PASS



2DH1-Ant10-Hop-PASS

2DH1-Ant10-Hop-PASS