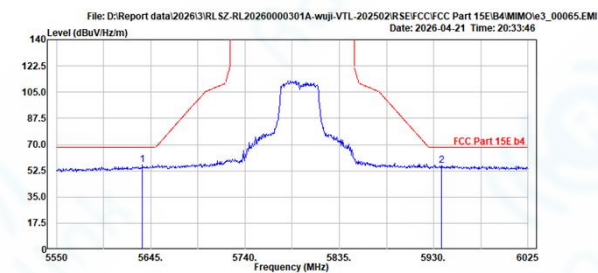


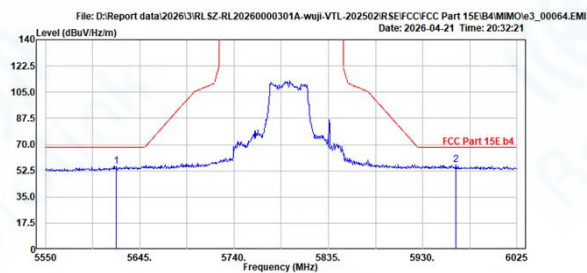
11ax(40M)_TX_CH_159_Horizontal



Site : chamber
Condition: FCC Part 15E b4 3m ANT_BBHA9120D-1G-18GHz-20250411-FCC HORIZONTAL
EUT : VTL-202502
Mode : WIFI 5G_11ax40_TX_CH 159
Power : 17.5
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Limit Level	Over Limit	Remark	Preamp Factor	Cable Loss	Ant Factor
MHz		dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 5636.450	HORIZONTAL	50.82	56.39	68.20	-11.81 Peak	46.70	8.44	33.19
2 5938.075	HORIZONTAL	49.04	56.24	68.20	-11.96 Peak	47.13	9.59	33.36

11ax(40M)_TX_CH_159_Vertical



Site : chamber
Condition: FCC Part 15E b4 3m ANT_BBHA9120D-1G-18GHz-20250411-FCC VERTICAL
EUT : VTL-202502
Mode : WIFI 5G_11ax40_TX_CH 159
Power : 17.5
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Limit Level	Over Limit	Remark	Preamp Factor	Cable Loss	Ant Factor
MHz		dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 5621.250	VERTICAL	50.42	55.72	68.20	-12.48 Peak	46.67	8.38	33.07
2 5963.725	VERTICAL	50.22	56.55	68.20	-11.05 Peak	47.17	9.69	33.45

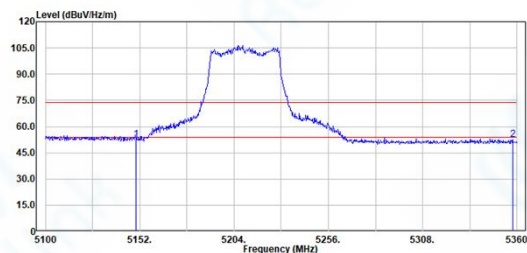
Radiolink Testing (Shenzhen) Co., Ltd.

Room 103, Building B, Jinghang Industrial Park, Area 71, Xingdong Community, Xin'an Subdistrict, Bao'an District, Shenzhen, Guangdong Province, China

Tel: +86 0755 23080694



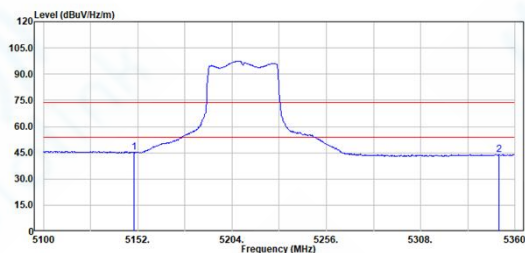
11ax(80M)_TX_CH_42_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 5G_11aX80_TX_CH 42
Power : 10.5
Rate : MCS0
Note : IMEI:358028660010991

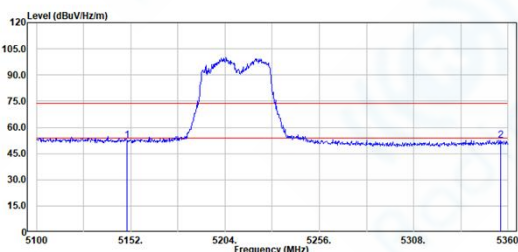
Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 5150.000	HORIZONTAL	49.10	52.05	74.00	-21.35	Peak	46.65	7.39	32.80
2 5357.600	HORIZONTAL	48.72	52.41	74.00	-21.59	Peak	46.56	7.71	33.43

11ax(80M)_TX_CH_42_Horizontal-Avg



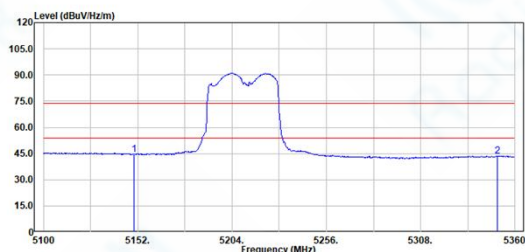
Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 5G_11aX80_TX_CH 42
Power : 10.5
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 5150.000	HORIZONTAL	41.83	45.38	54.00	-8.62	Average	46.65	7.39	32.80
2 5351.420	HORIZONTAL	40.24	43.96	54.00	-10.04	Average	46.57	7.70	33.57



Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 5G_11aX80_TX_CH 42
Power : 10.5
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 5150.000	VERTICAL	49.03	52.58	74.00	-21.42	Peak	46.65	7.39	32.80
2 5355.040	VERTICAL	46.97	52.06	74.00	-21.34	Peak	46.56	7.70	33.47



Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 5G_11aX80_TX_CH 42
Power : 10.5
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 5150.000	VERTICAL	41.83	44.58	54.00	-9.42	Average	46.65	7.39	32.80
2 5350.380	VERTICAL	39.81	43.54	54.00	-10.46	Average	46.57	7.70	33.59

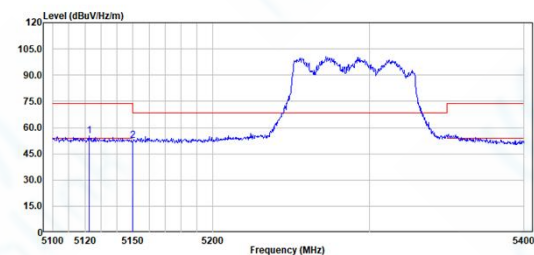


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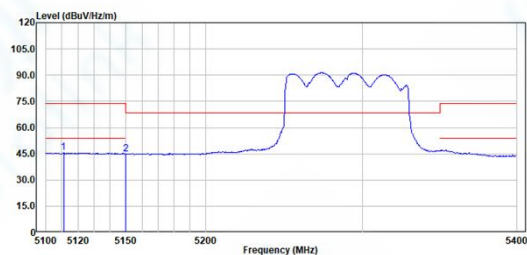
11ax(80M)_TX_CH_58_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 5G_11ax80_TX_CH 58
Power : 10
Rate : MCS0
Note : IMEI:358028660010991

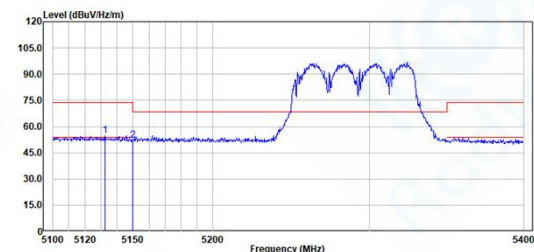
Freq	Pol/Phase	Read Level	Limit Level	Over Limit	Remark	Preamp Factor	Cable Loss	Ant Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB	dB	dB	dB/m
1	5122.500 HORIZONTAL	49.11	55.27	74.00	-18.73 Peak	46.67	7.35	32.97
2	5150.000 HORIZONTAL	49.11	52.08	68.20	-15.54 Peak	46.65	7.39	32.80

11ax(80M)_TX_CH_58_Horizontal-Avg



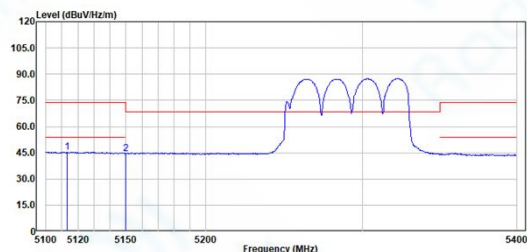
Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 5G_11ax80_TX_CH 58
Power : 10
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Limit Level	Over Limit	Remark	Preamp Factor	Cable Loss	Ant Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB	dB	dB	dB/m
1	5111.100 HORIZONTAL	41.90	45.60	54.00	-8.40 Average	46.67	7.34	33.03
2	5150.000 HORIZONTAL	41.21	44.76	54.00	-9.24 Average	46.65	7.39	32.80



Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 5G_11ax80_TX_CH 58
Power : 10
Rate : MCS0
Note : IMEI:358028660010991

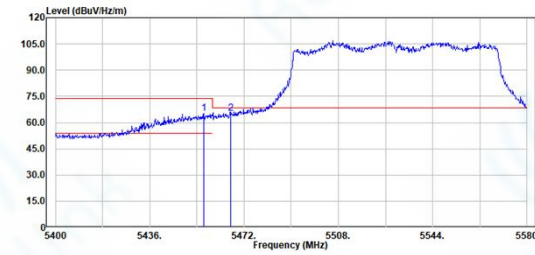
Freq	Pol/Phase	Read Level	Limit Level	Over Limit	Remark	Preamp Factor	Cable Loss	Ant Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB	dB	dB	dB/m
1	5132.700 VERTICAL	51.36	54.98	74.00	-19.02 Peak	46.66	7.37	32.90
2	5150.000 VERTICAL	48.09	52.24	68.20	-15.96 Peak	46.65	7.39	32.80



Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 5G_11ax80_TX_CH 58
Power : 10
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Limit Level	Over Limit	Remark	Preamp Factor	Cable Loss	Ant Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB	dB	dB	dB/m
1	5113.200 VERTICAL	41.71	45.40	54.00	-8.60 Average	46.67	7.34	33.02
2	5150.000 VERTICAL	40.96	44.51	54.00	-9.40 Average	46.65	7.39	32.80

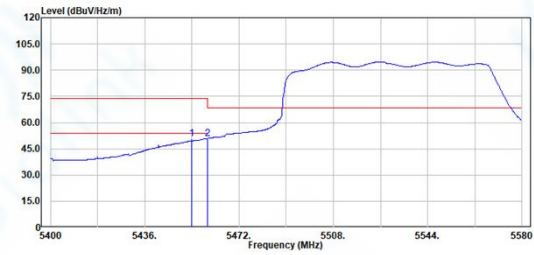
11ax(80M)_TX_CH_106_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 5G_11ax80_TX_CH 106
Power : 12.5
Rate : MCS0
Note : IMEI:358028660010991

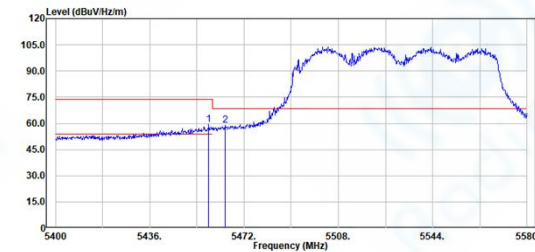
Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1	5456.700 HORIZONTAL	61.26	65.08	74.00	-8.92	peak	46.52	7.86	33.17
2	5466.700 HORIZONTAL	61.21	65.07	68.20	-3.13	peak	46.51	7.87	33.27

11ax(80M)_TX_CH_106_Horizontal-Avg



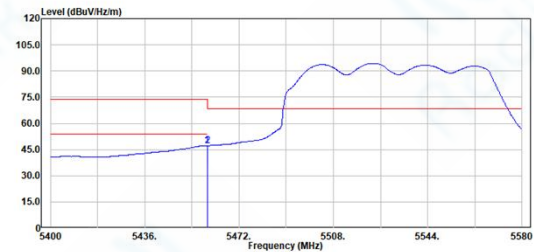
Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 5G_11ax80_TX_CH 106
Power : 12.5
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1	5454.000 Horizontal	46.69	50.49	54.00	-3.51	Average	46.52	7.85	33.14
2	5460.000 HORIZONTAL	47.09	50.91	54.00	-3.09	Average	46.52	7.86	33.20



Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 5G_11ax80_TX_CH 106
Power : 12.5
Rate : MCS0
Note : IMEI:358028660010991

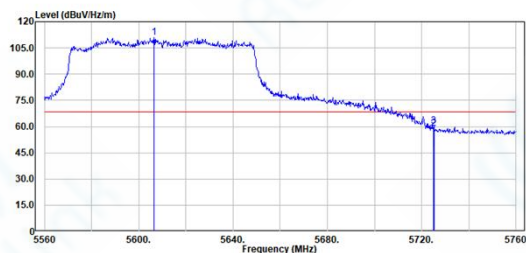
Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1	5458.500 VERTICAL	55.38	59.19	74.00	-14.81	peak	46.52	7.86	33.18
2	5464.620 VERTICAL	54.81	58.66	68.20	-9.54	peak	46.52	7.87	33.25



Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 5G_11ax80_TX_CH 106
Power : 12.5
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1	5459.760 VERTICAL	43.38	47.20	54.00	-6.80	Average	46.52	7.86	33.20
2	5460.000 VERTICAL	43.40	47.22	54.00	-6.78	Average	46.52	7.86	33.20

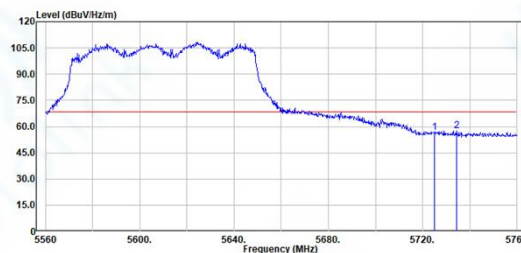
11ax(80M)_TX_CH_122_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 5G_11ax80_TX_CH 122
Power : 17
Rate : MCS0
Note : IMEI:358028660010991

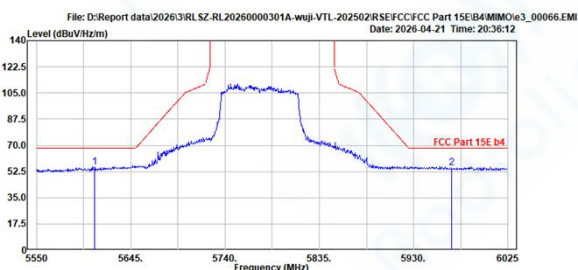
Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss	Ant Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 5600.400	HORIZONTAL	105.88	110.91	68.20	-42.71	Peak	46.65	8.33	32.95
2 5725.000	HORIZONTAL	52.46	58.80	68.20	-9.40	Peak	46.82	8.78	33.50
3 5725.200	HORIZONTAL	53.91	60.23	68.20	-7.97	Peak	46.82	8.78	33.50

11ax(80M)_TX_CH_122_Vertical



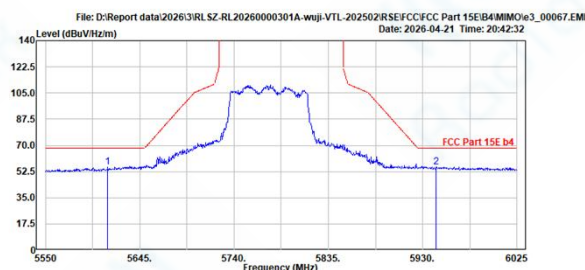
Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 5G_11ax80_TX_CH 122
Power : 17
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss	Ant Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 5725.000	VERTICAL	50.22	56.54	68.20	-11.66	Peak	46.82	8.78	33.50
2 5734.400	VERTICAL	51.02	57.44	68.20	-10.76	Peak	46.84	8.82	33.69



Site : chamber
Condition: FCC Part 15E b4 3m ANT_BBHA9120D-1G-18GHz-20250411-FCC HORIZONTAL
EUT : VTL-202502
Mode : WIFI 5G_11ax80_TX_CH 155
Power : 17
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss	Ant Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 5608.425	HORIZONTAL	50.31	55.37	68.20	-12.83	Peak	46.66	8.33	32.97
2 5968.475	HORIZONTAL	48.70	54.99	68.20	-13.21	Peak	47.17	9.71	33.43



Site : chamber
Condition: FCC Part 15E b4 3m ANT_BBHA9120D-1G-18GHz-20250411-FCC VERTICAL
EUT : VTL-202502
Mode : WIFI 5G_11ax80_TX_CH 155
Power : 17
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss	Ant Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 5612.700	VERTICAL	50.21	55.35	68.20	-12.85	Peak	46.66	8.35	33.00
2 5943.300	VERTICAL	49.83	55.46	68.20	-12.74	Peak	47.14	9.81	33.42



7.5 Duty Cycle

Test Requirement	ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 Section Section 12.2
Test Method:	ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 Section 12.2

7.5.1 E.U.T. Operation

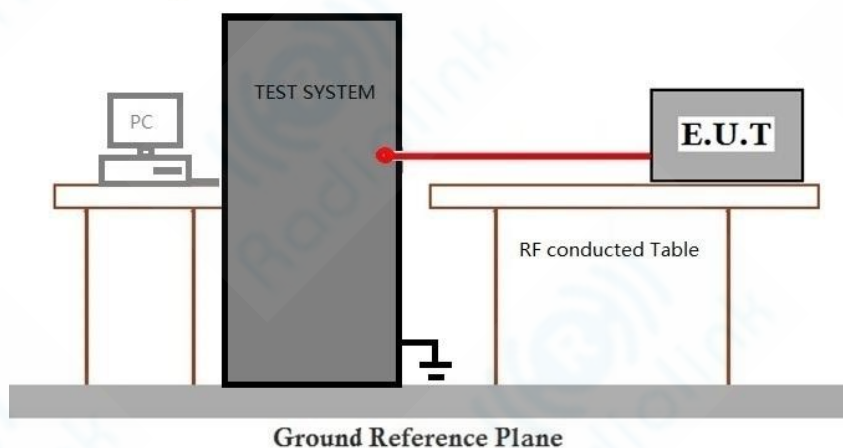
Operating Environment:

Temperature: 22.2 °C Humidity: 40.0 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Mode Code	Description
1	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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Shenzhen, Guangdong Province, China
Tel: +86 0755 23080694

7.6 99% Bandwidth

Test Requirement	ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 Section Section 12.4.2 RSS-Gen Section 6.7
Test Method:	ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 Section 12.5.3

7.6.1 E.U.T. Operation

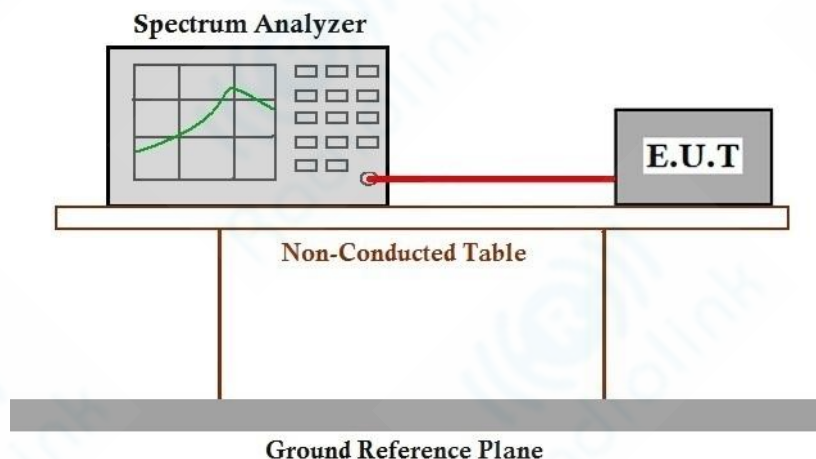
Operating Environment:

Temperature: 22.2 °C Humidity: 40.0 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Mode Code	Description
1	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.7 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)
RSS-247 Section 7.3.1.3(b)
Test Method: ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024
Section 12.5.2

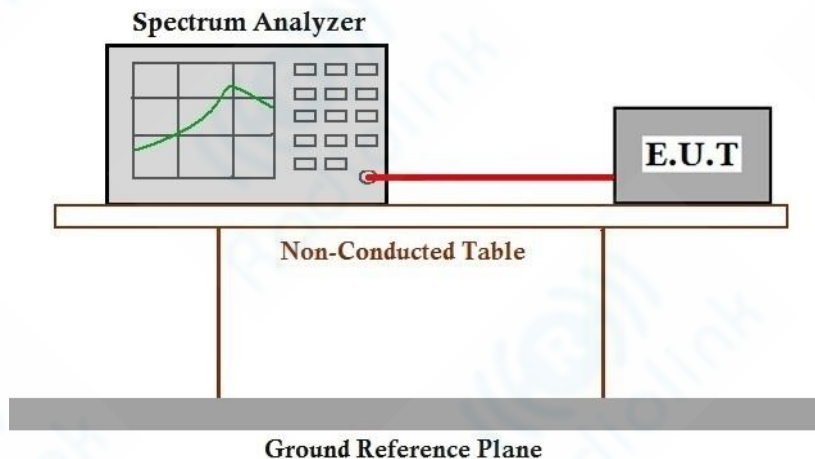
7.7.1 E.U.T. Operation

Operating Environment:
Temperature: 22.2 °C Humidity: 40.0 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Mode Code	Description
1	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.8 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

Test Requirement 47 CFR Part 15, Subpart E 15.407 (e)
RSS-247 Section 7.3.4.2

Test Method: ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024
Section 12.5.1

Limit:

Frequency band(MHz)	Limit
5725-5850	≥ 500 kHz

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C

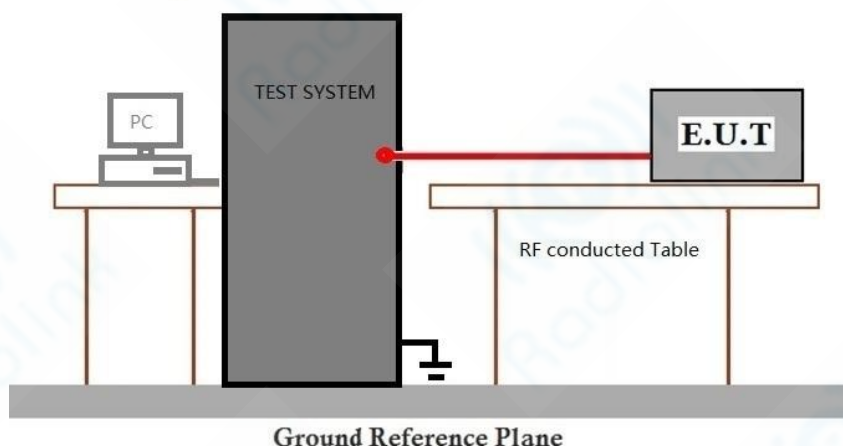
Humidity: 40.0 % RH

Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Mode Code	Description
1	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details

Radiolink Testing (Shenzhen) Co., Ltd.

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Tel: +86 0755 23080694

7.9 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)
RSS-247 Section 7.3.1.2 & 7.3.2.2 & 7.3.2.2 & 7.3.4.3

Test Method: ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024
Section 12.4

FCC Limit:

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) or 11dBm+10logB*
5470-5725	≤250mW(24dBm) or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	* Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

IC Limit:

Frequency band(MHz)	Limit
5150-5250	e.i.r.p. ≤ 200mW(23dBm) or 10 + 10logB*, whichever is less
5250-5350	Conducted power ≤ 250mW(24dBm) or 11dBm+10logB*, whichever is less e.i.r.p. ≤ 1W(30dBm) or 17 + 10logB*, whichever is less
5470-5725	Conducted power ≤ 250mW(24dBm) or 11dBm+10logB*, whichever is less e.i.r.p. ≤ 1W(30dBm) or 17 + 10logB*, whichever is less
5725-5850	Conducted power ≤ 1W(30dBm)
Remark:	* Where B is the 99% emission bandwidth in MHz.

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 40.0 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

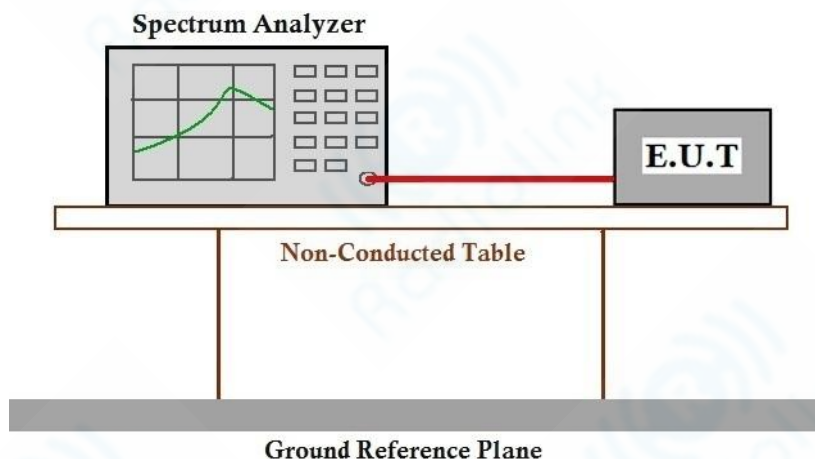
Mode Code	Description
1	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

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7.9.3 Test Setup Diagram



Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

AV Output power Level = Reading level + Cable loss + DCCF

Please Refer to Appendix for Details



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7.10 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)
RSS-247 Section 7.3.1.2 & 7.3.2.2 & 7.3.2.2 & 7.3.4.3

Test Method: ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024
Section 12.6

FCC Limit:

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

IC Limit:

Frequency band(MHz)	Limit
5150-5250	e.i.r.p. spectral density ≤ 10dBm/MHz
5250-5350	≤ 11dBm/MHz
5470-5725	≤ 11dBm/MHz
5725-5850	≤ 30dBm/500kHz

7.10.1 E.U.T. Operation

Operating Environment:
Temperature: 22.2 °C Humidity: 40.0 % RH Atmospheric Pressure: 1020 mbar

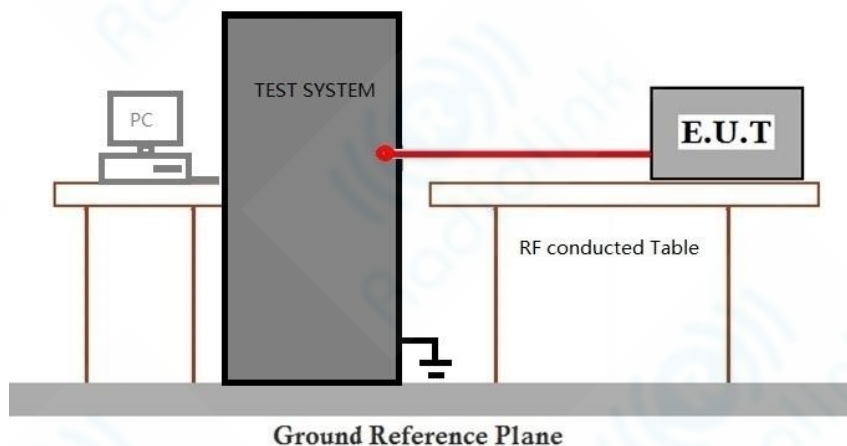
7.10.2 Test Mode Description

Mode Code	Description
1	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

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7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

RBW conversion factor from 300kHz to 500kHz (2.22dB) for UNII Band 3 has been considered.

Please Refer to Appendix for Details



7.11 Frequency Stability

Test Requirement	47 CFR Part 15, Subpart E 15.407 (g) RSS-Gen Section 8.11
Test Method:	ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 Section 6.8

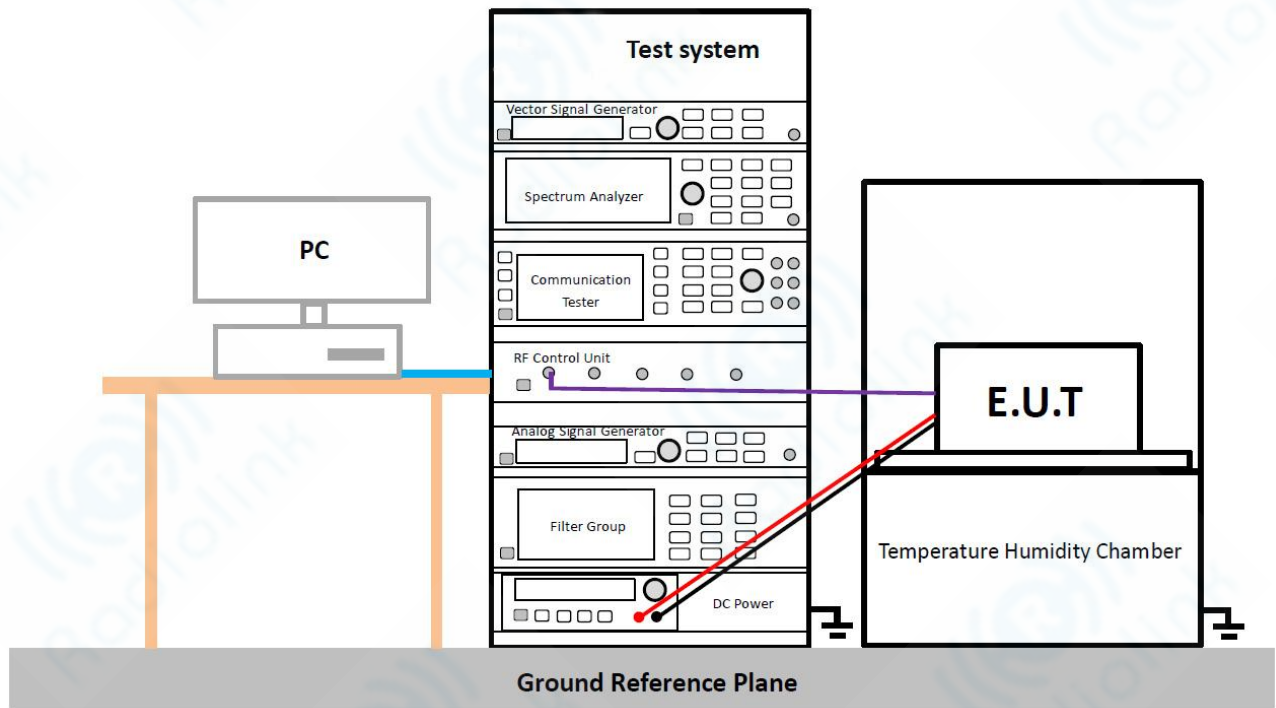
7.11.1 E.U.T. Operation

Operating Environment:			
Temperature:	22.2 °C	Humidity:	40.0 % RH
		Atmospheric Pressure:	1020 mbar

7.11.2 Test Mode Description

Mode Code	Description
1	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

7.11.3 Test Setup Diagram



7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.12 Non-occupancy period

Test Requirement KDB 905462 D02 Section 5.1
Test Method: KDB 905462 D02 Section 7.8.3
ETSI EN 301 893 v2.2.1

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For

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each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

7.12.1 E.U.T. Operation

Operating Environment:

Temperature: 28.2 °C

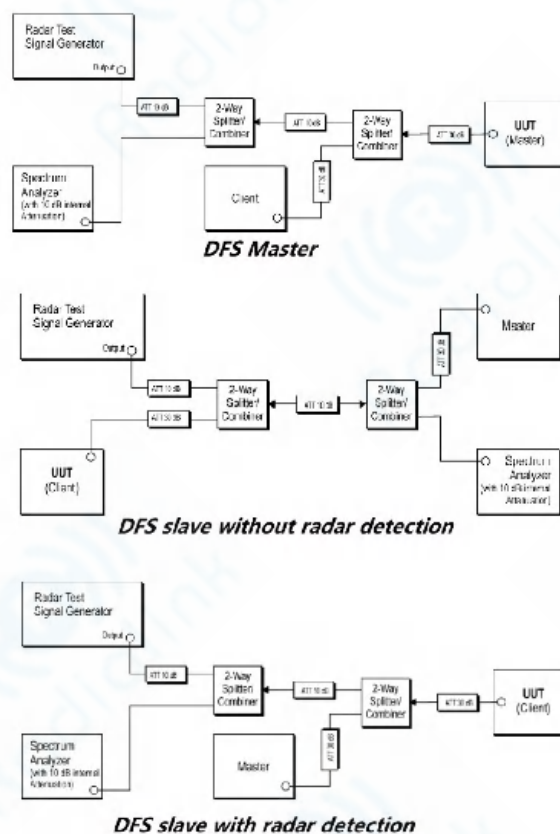
Humidity: 41.7 % RH

Atmospheric Pressure: 1020 mbar

7.12.2 Test Mode Description

Mode Code	Description
2	Normal operating_Keep the EUT communication with the companion device.

7.12.3 Test Setup Diagram



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7.12.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details



7.13 Channel Move Time

Test Requirement KDB 905462 D02 Section 5.1
Test Method: KDB 905462 D02 Section 7.8.3
ETSI EN 301 893 v2.2.1

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For

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each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

7.13.1 E.U.T. Operation

Operating Environment:

Temperature: 28.2 °C

Humidity: 41.7 % RH

Atmospheric Pressure: 1020 mbar

7.13.2 Test Mode Description

Mode Code	Description
1	Normal operating_Keep the EUT communication with the companion device.

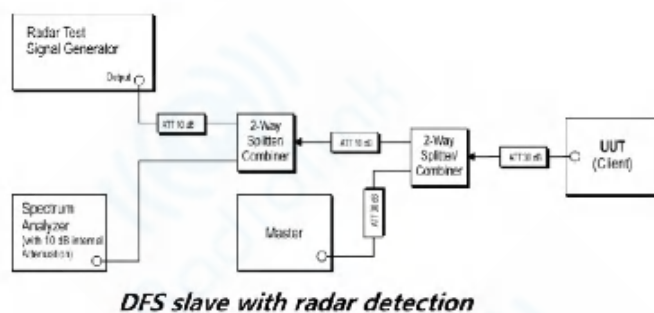
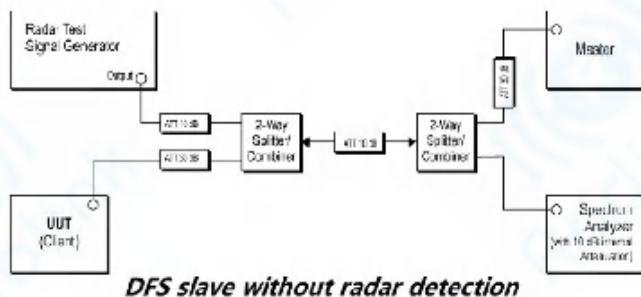
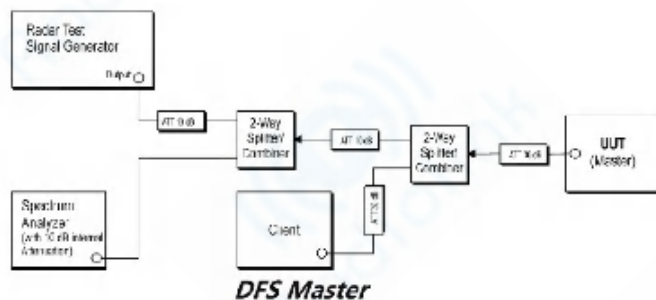


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7.13.3 Test Setup Diagram



7.13.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details



7.14 Channel Closing Transmission Time

Test Requirement KDB 905462 D02 Section 5.1
Test Method: KDB 905462 D02 Section 7.8.3
ETSI EN 301 893 v2.2.1

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For

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each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

7.14.1 E.U.T. Operation

Operating Environment:

Temperature: 28.2 °C

Humidity: 41.7 % RH

Atmospheric Pressure: 1020 mbar

7.14.2 Test Mode Description

Mode Code	Description
2	Normal operating_Keep the EUT communication with the companion device.

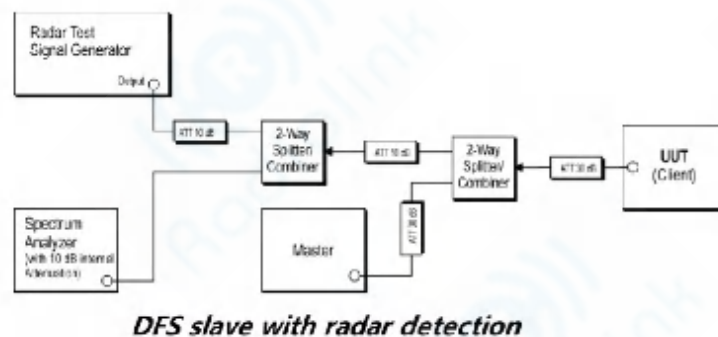
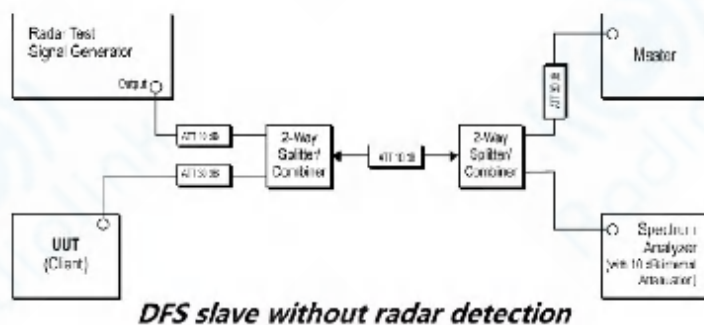
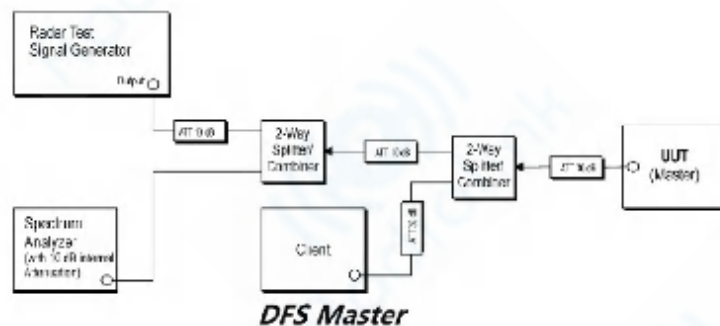


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7.14.3 Test Setup Diagram



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7.14.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details



8 Test Setup Photo

Refer to Appendix A_Setup Photo (1.4)



9 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	/	/	2.096	2.113	99.20	0.04	0.03
		5200	/	/	2.097	2.114	99.20	0.04	0.00
		5240	/	/	2.097	2.114	99.20	0.04	0.03
		5260	/	/	2.098	2.115	99.20	0.04	0.03
		5300	/	/	2.096	2.114	99.15	0.04	0.03
		5320	/	/	2.097	2.115	99.15	0.04	0.03
		5500	/	/	2.097	2.114	99.20	0.04	0.03
		5580	/	/	2.098	2.115	99.20	0.04	0.03
		5700	/	/	2.097	2.114	99.20	0.04	0.00
		5745	/	/	2.097	2.114	99.20	0.04	0.03
		5785	/	/	2.098	2.115	99.20	0.04	0.00
		5825	/	/	2.096	2.114	99.15	0.04	0.03
802.11n (HT20)	MIMO	5180	/	/	5.428	5.446	99.67	0.01	0.04
		5200	/	/	5.428	5.446	99.67	0.01	0.04
		5240	/	/	5.428	5.446	99.67	0.01	0.04
		5260	/	/	5.428	5.445	99.69	0.01	0.00
		5300	/	/	5.428	5.447	99.65	0.02	0.03
		5320	/	/	5.428	5.446	99.67	0.01	0.04
		5500	/	/	5.428	5.447	99.65	0.02	0.03
		5580	/	/	5.429	5.445	99.71	0.01	0.00
		5700	/	/	5.428	5.446	99.67	0.01	0.04
		5745	/	/	5.428	5.446	99.67	0.01	0.04
		5785	/	/	5.428	5.446	99.67	0.01	0.04
		5825	/	/	5.428	5.446	99.67	0.01	0.04
802.11n (HT40)	MIMO	5190	/	/	5.428	5.446	99.67	0.01	0.04
		5230	/	/	5.428	5.446	99.67	0.01	0.04
		5270	/	/	5.428	5.446	99.67	0.01	0.04
		5310	/	/	5.428	5.446	99.67	0.01	0.04
		5510	/	/	5.428	5.446	99.67	0.01	0.04
		5550	/	/	5.428	5.446	99.67	0.01	0.04
		5670	/	/	5.428	5.445	99.69	0.01	0.00
		5755	/	/	5.428	5.445	99.69	0.01	0.00
		5795	/	/	5.428	5.445	99.69	0.01	0.00
802.11ac (VHT20)	MIMO	5180	/	/	5.428	5.446	99.67	0.01	0.04
		5200	/	/	5.428	5.446	99.67	0.01	0.04
		5240	/	/	5.428	5.446	99.67	0.01	0.04

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		5260	/	/	5.428	5.446	99.67	0.01	0.04
		5300	/	/	5.428	5.446	99.67	0.01	0.04
		5320	/	/	5.428	5.447	99.65	0.02	0.03
		5500	/	/	5.428	5.446	99.67	0.01	0.04
		5580	/	/	5.428	5.446	99.67	0.01	0.04
		5700	/	/	5.428	5.446	99.67	0.01	0.04
		5745	/	/	5.428	5.447	99.65	0.02	0.03
		5785	/	/	5.428	5.446	99.67	0.01	0.04
		5825	/	/	5.428	5.446	99.67	0.01	0.04
802.11ac (VHT40)	MIMO	5190	/	/	5.428	5.446	99.67	0.01	0.04
		5230	/	/	5.428	5.446	99.67	0.01	0.04
		5270	/	/	5.429	5.445	99.71	0.01	0.00
		5310	/	/	5.428	5.446	99.67	0.01	0.04
		5510	/	/	5.428	5.447	99.65	0.02	0.03
		5550	/	/	5.428	5.446	99.67	0.01	0.04
		5670	/	/	5.428	5.446	99.67	0.01	0.04
		5755	/	/	5.428	5.446	99.67	0.01	0.04
		5795	/	/	5.428	5.446	99.67	0.01	0.04
802.11ac (VHT80)	MIMO	5210	/	/	5.428	5.446	99.67	0.01	0.04
		5290	/	/	5.428	5.446	99.67	0.01	0.04
		5530	/	/	5.428	5.446	99.67	0.01	0.04
		5610	/	/	5.428	5.446	99.67	0.01	0.04
		5775	/	/	5.428	5.447	99.65	0.02	0.03
802.11ax (HEW20)	MIMO	5180	SU	/	5.444	5.462	99.67	0.01	0.04
		5200	SU	/	5.444	5.462	99.67	0.01	0.00
		5240	SU	/	5.445	5.464	99.65	0.02	0.03
		5260	SU	/	5.445	5.464	99.65	0.02	0.03
		5300	SU	/	51.726	52.414	98.69	0.06	0.00
		5320	SU	/	5.444	5.462	99.67	0.01	0.04
		5500	SU	/	5.444	5.462	99.67	0.01	0.00
		5580	SU	/	5.445	5.463	99.67	0.01	0.03
		5700	SU	/	5.444	5.462	99.67	0.01	0.00
		5745	SU	/	5.444	5.462	99.67	0.01	0.04
		5785	SU	/	5.444	5.462	99.67	0.01	0.00
		5825	SU	/	5.444	5.462	99.67	0.01	0.00
802.11ax (HEW40)	MIMO	5190	SU	/	5.444	5.462	99.67	0.01	0.04
		5230	SU	/	5.444	5.462	99.67	0.01	0.04
		5270	SU	/	5.444	5.462	99.67	0.01	0.04
		5310	SU	/	5.444	5.462	99.67	0.01	0.04
		5510	SU	/	5.444	5.462	99.67	0.01	0.04
		5550	SU	/	5.444	5.462	99.67	0.01	0.04
		5670	SU	/	5.444	5.462	99.67	0.01	0.04
		5755	SU	/	5.444	5.462	99.67	0.01	0.04
		5795	SU	/	5.444	5.462	99.67	0.01	0.04
802.11ax (HEW80)	MIMO	5210	SU	/	5.444	5.462	99.67	0.01	0.04
		5290	SU	/	5.445	5.464	99.65	0.02	0.03
		5530	SU	/	5.445	5.463	99.67	0.01	0.03
		5610	SU	/	5.445	5.464	99.65	0.02	0.03
		5775	SU	/	5.444	5.462	99.67	0.01	0.04

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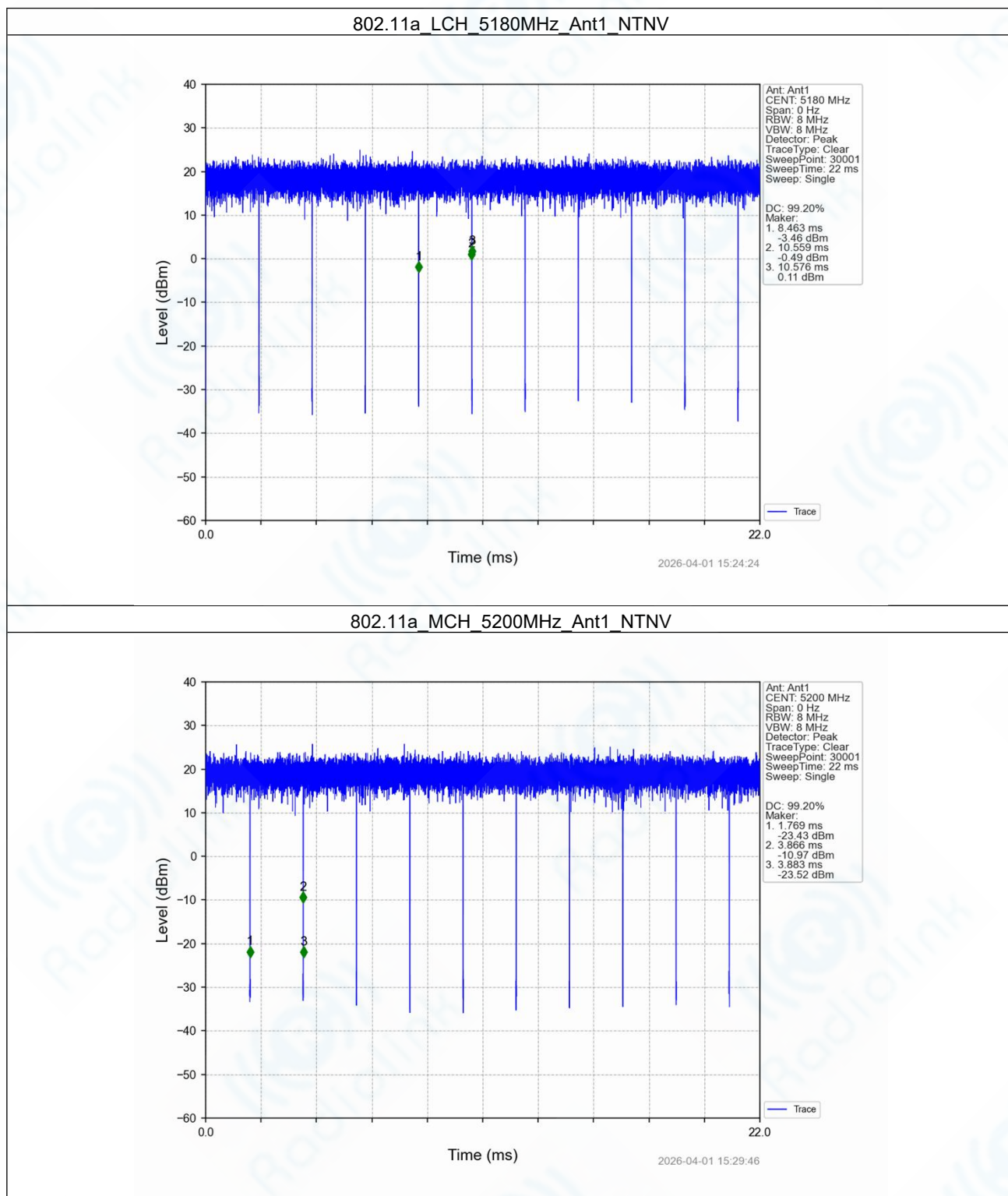
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1.2 Test Graph

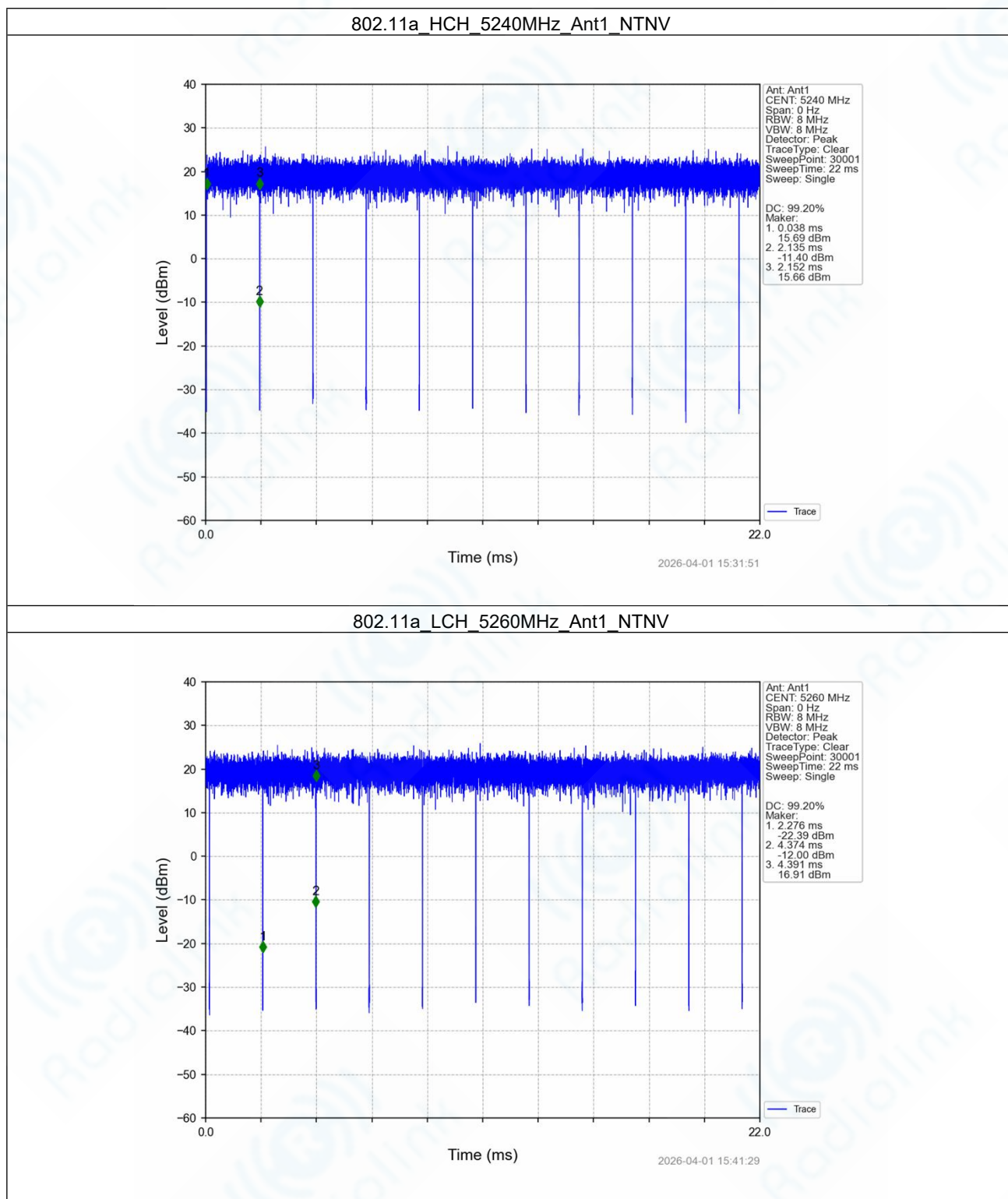
1.2.1 Ant1



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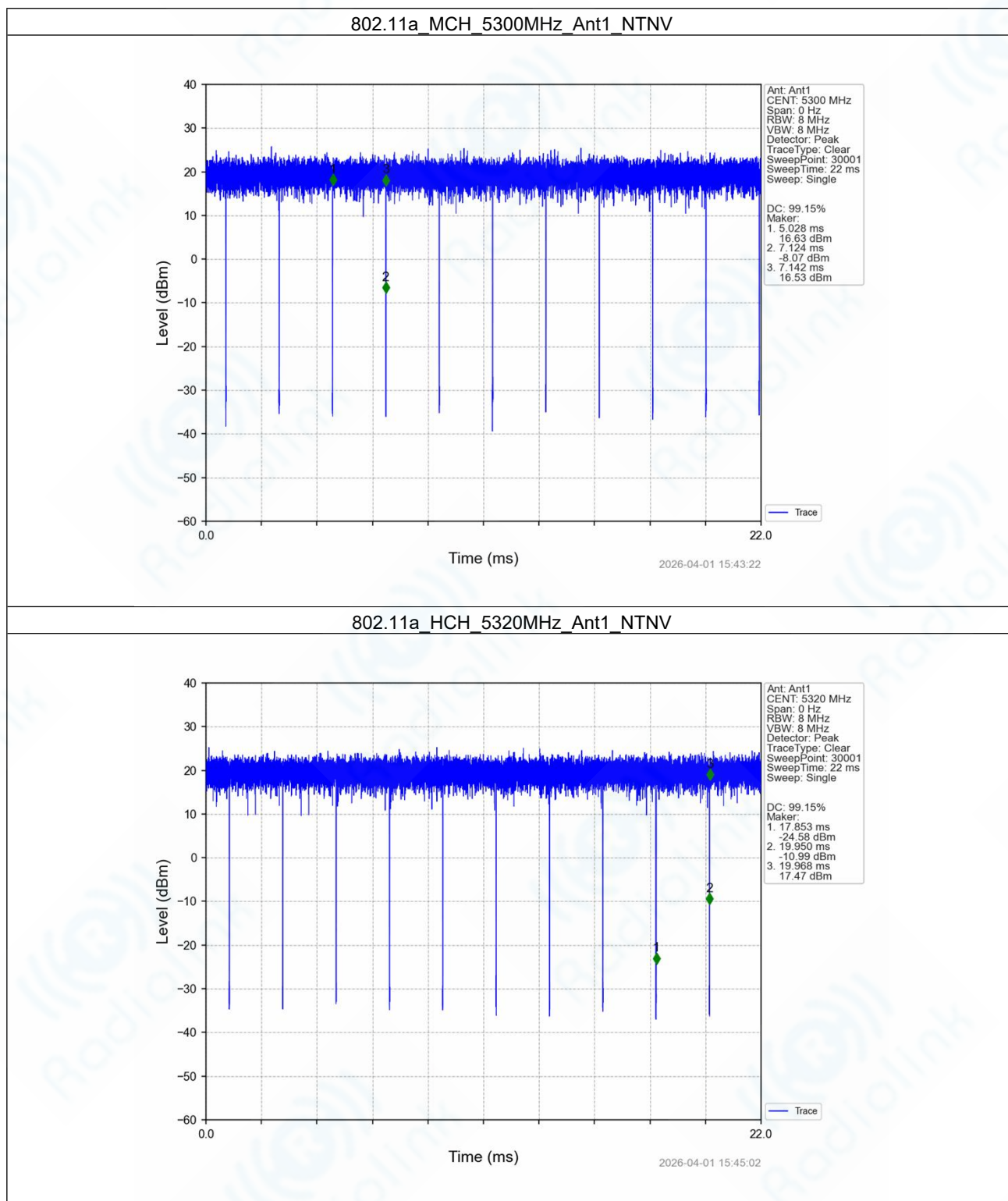
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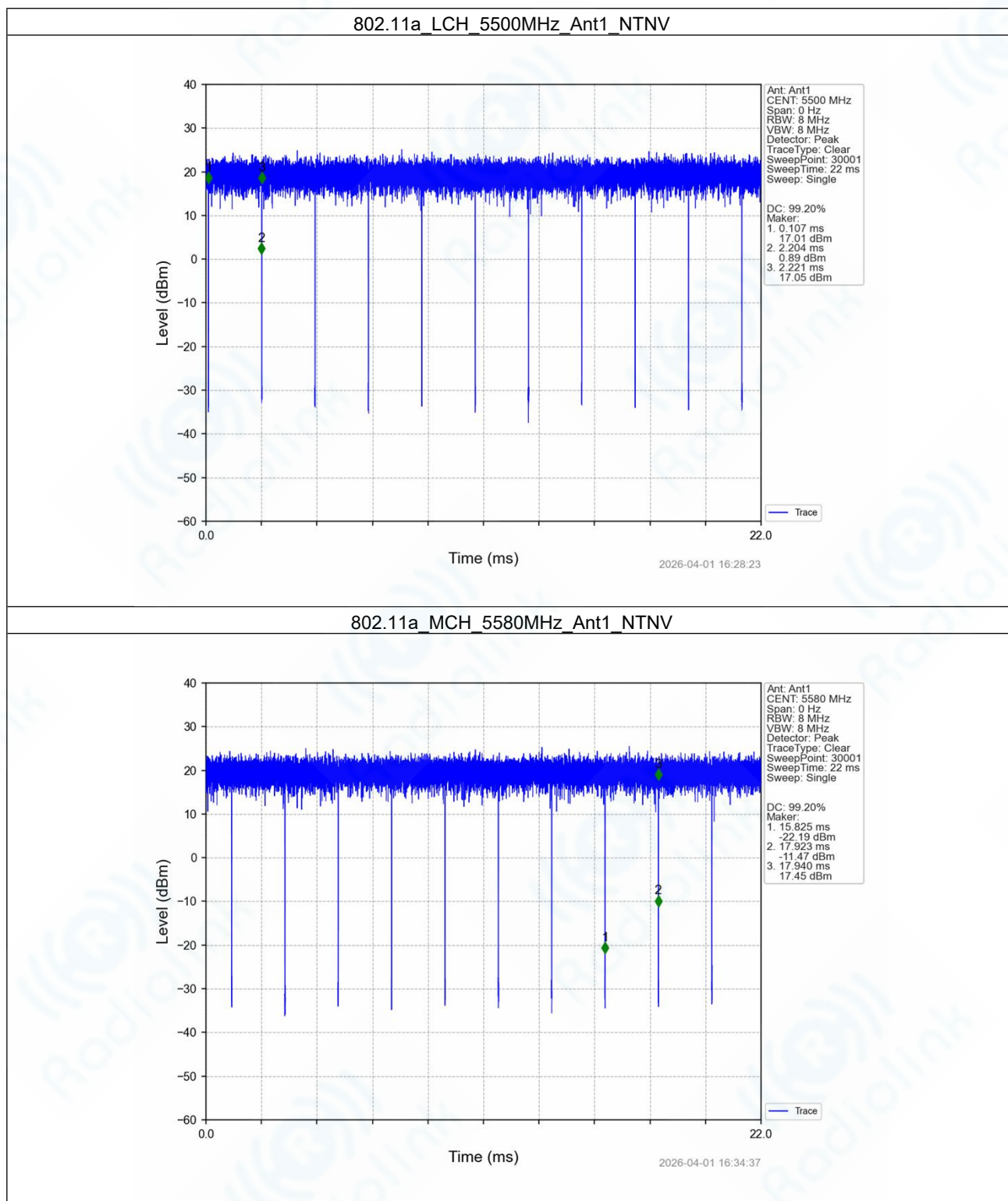
Tel: +86 0755 23080694

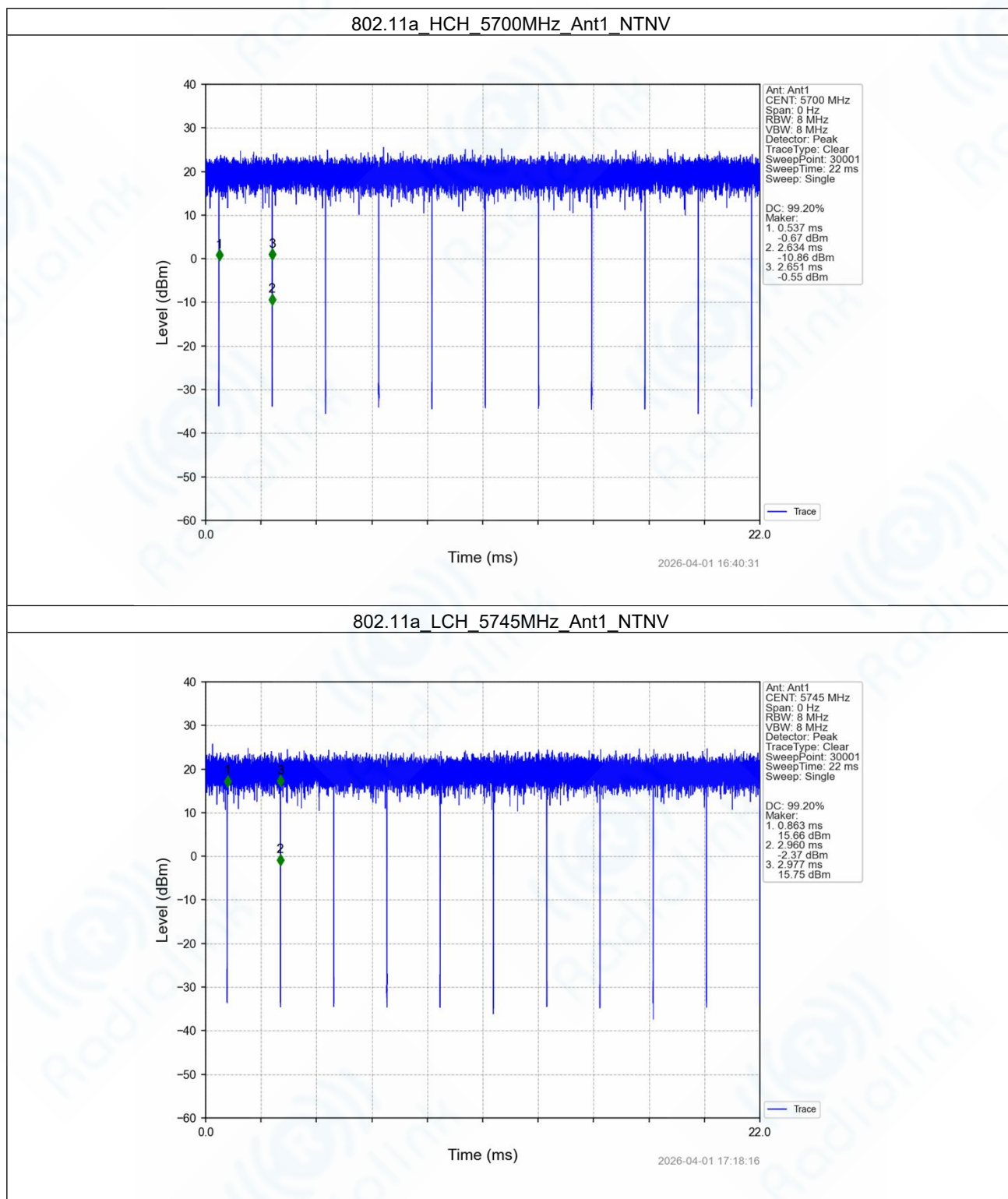


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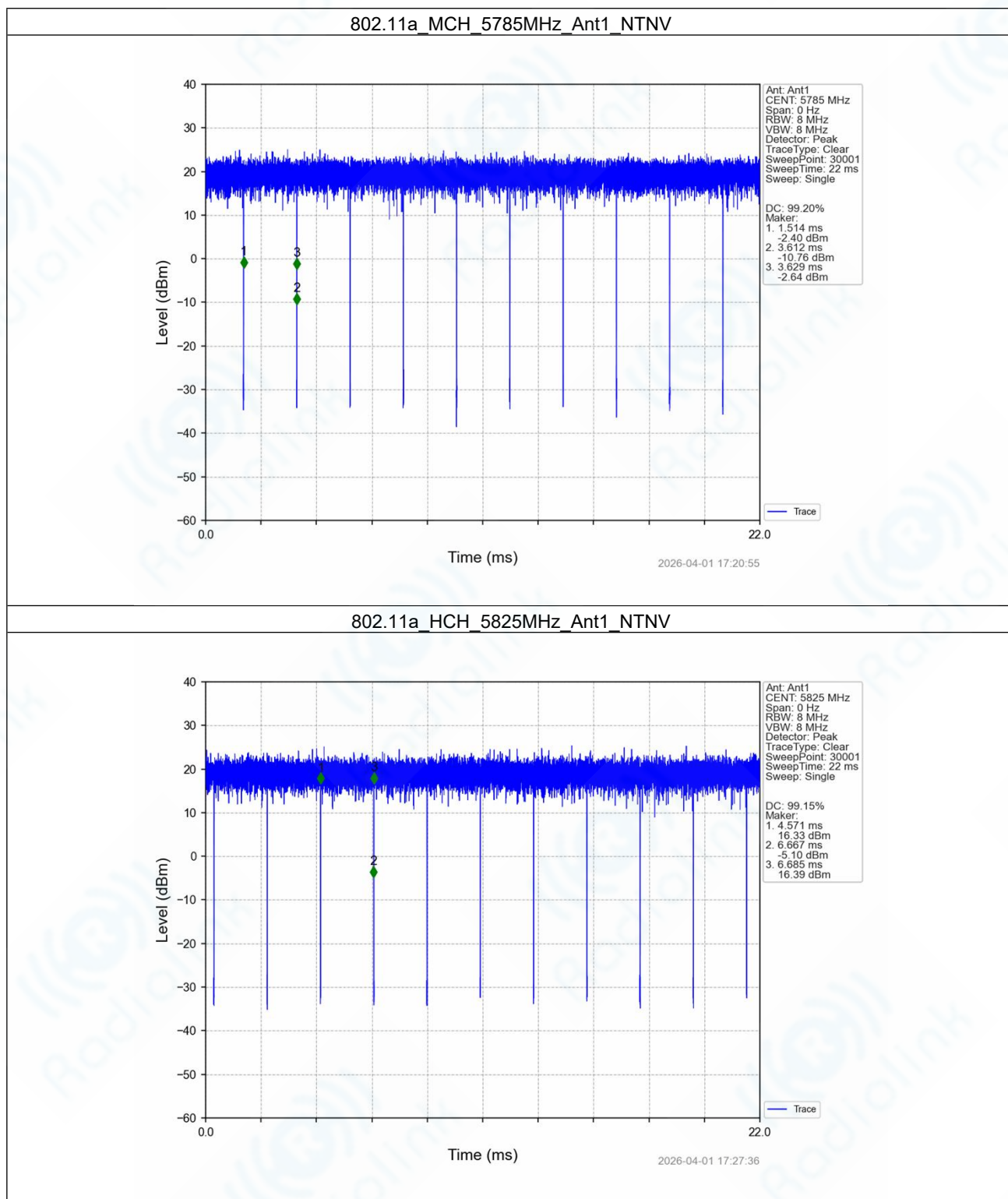




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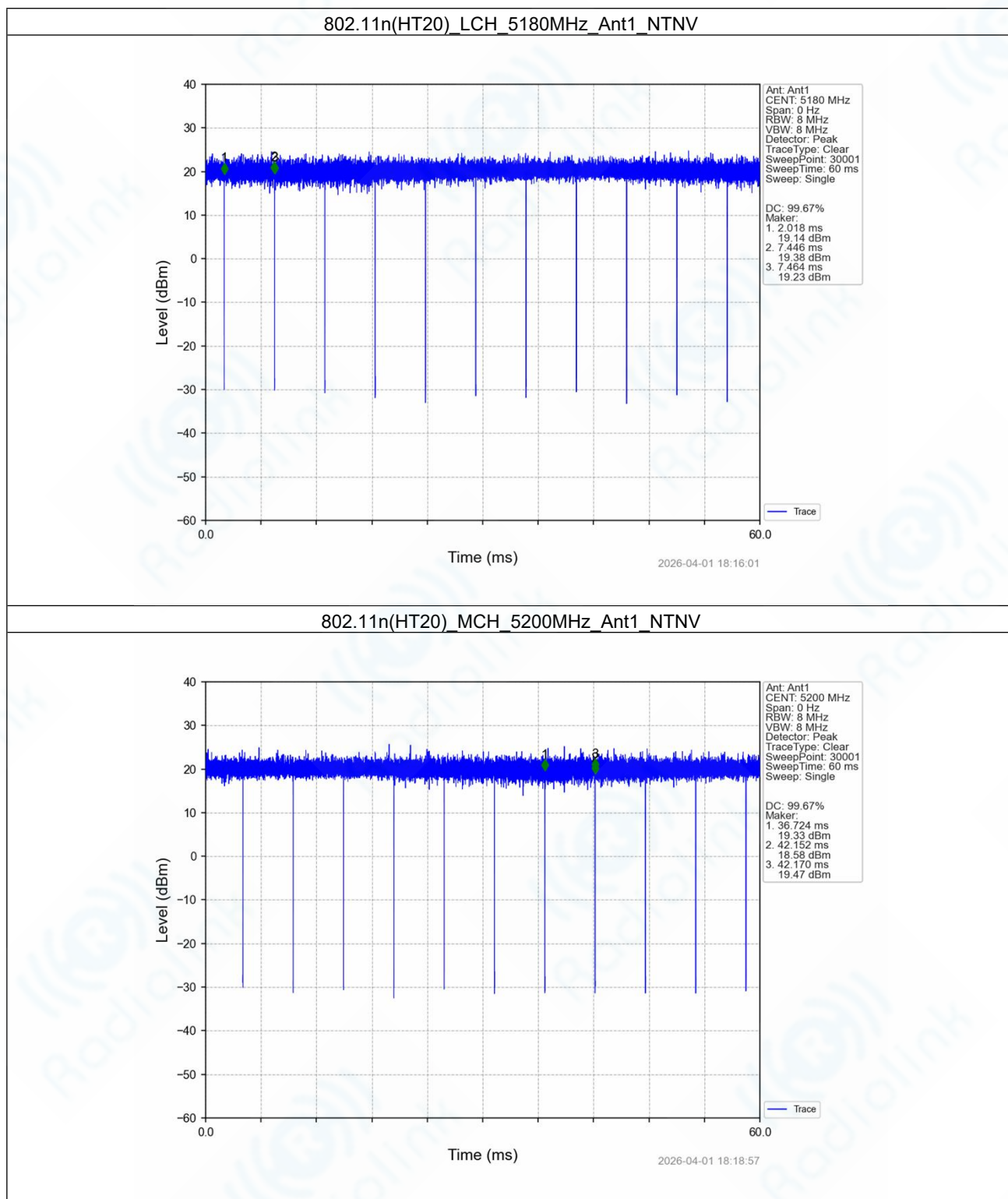
Tel: +86 0755 23080694

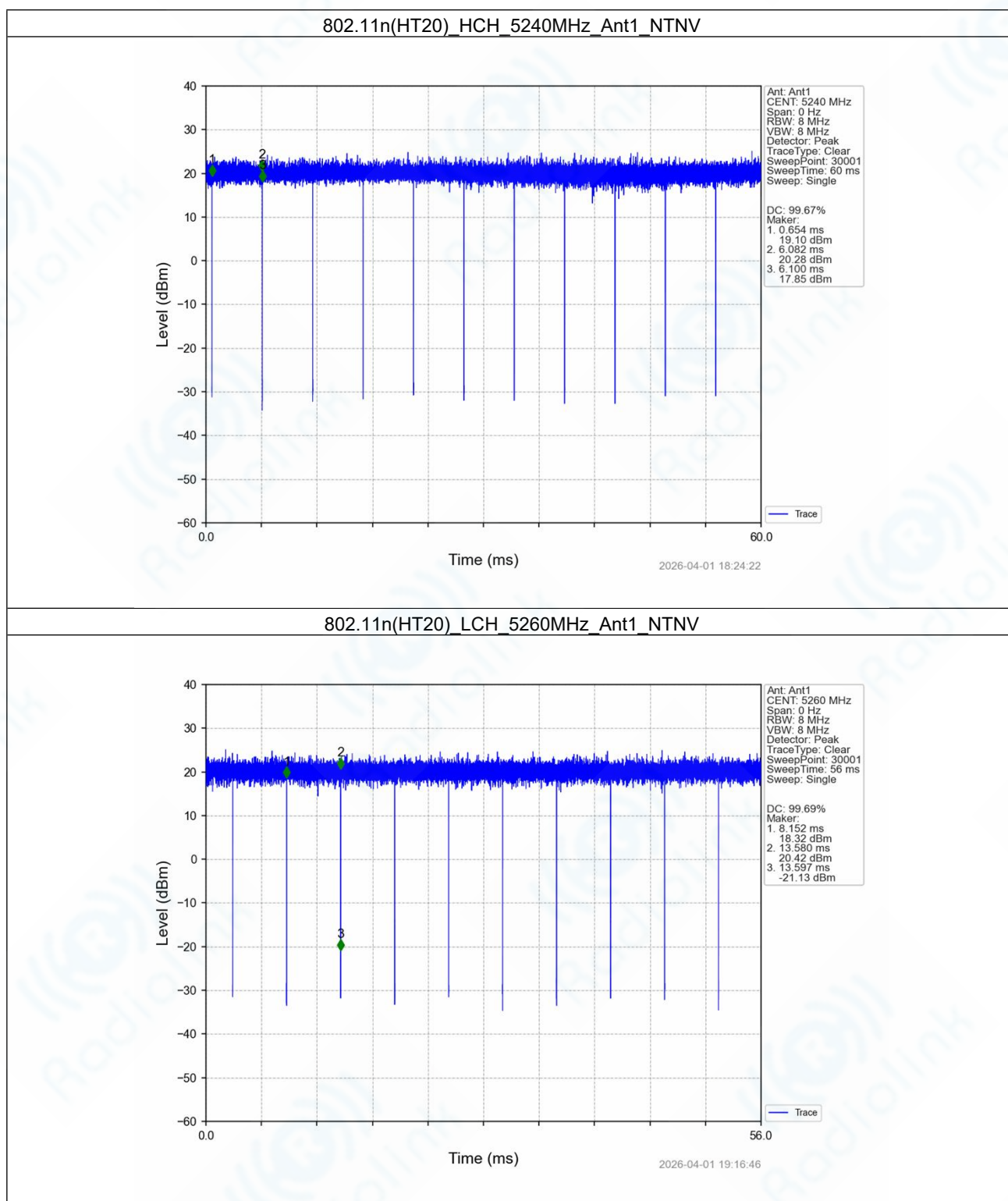


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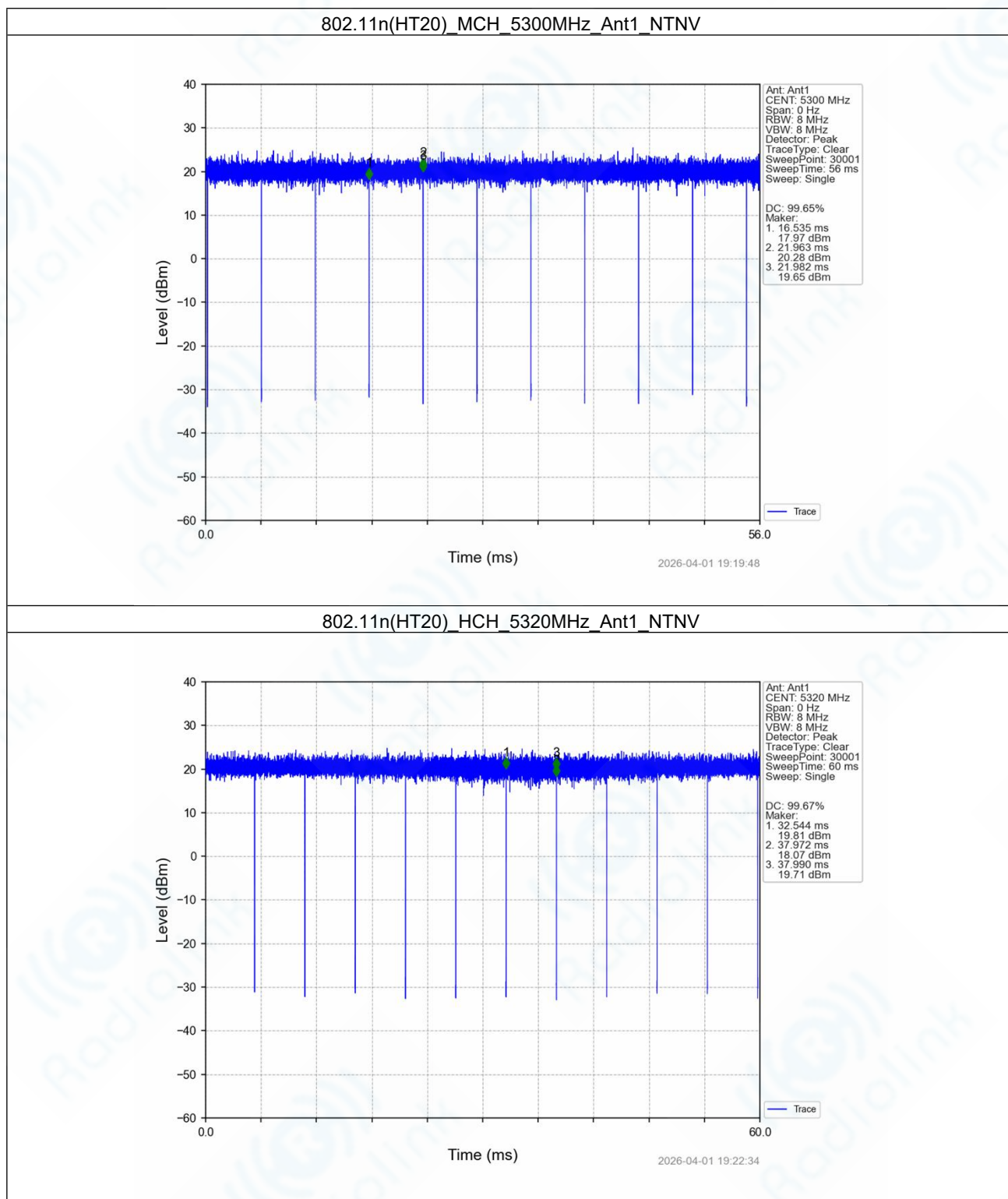




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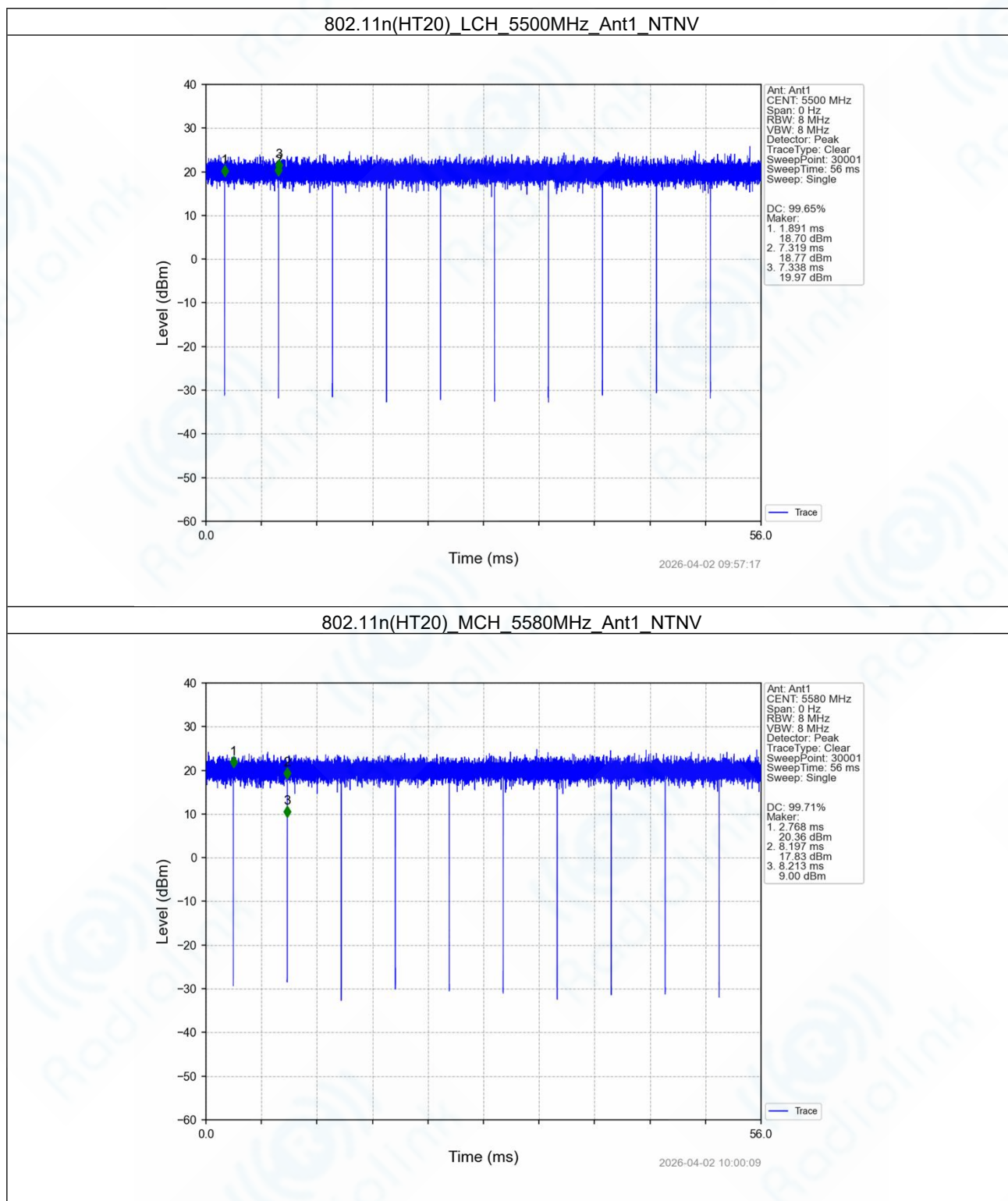
Tel: +86 0755 23080694

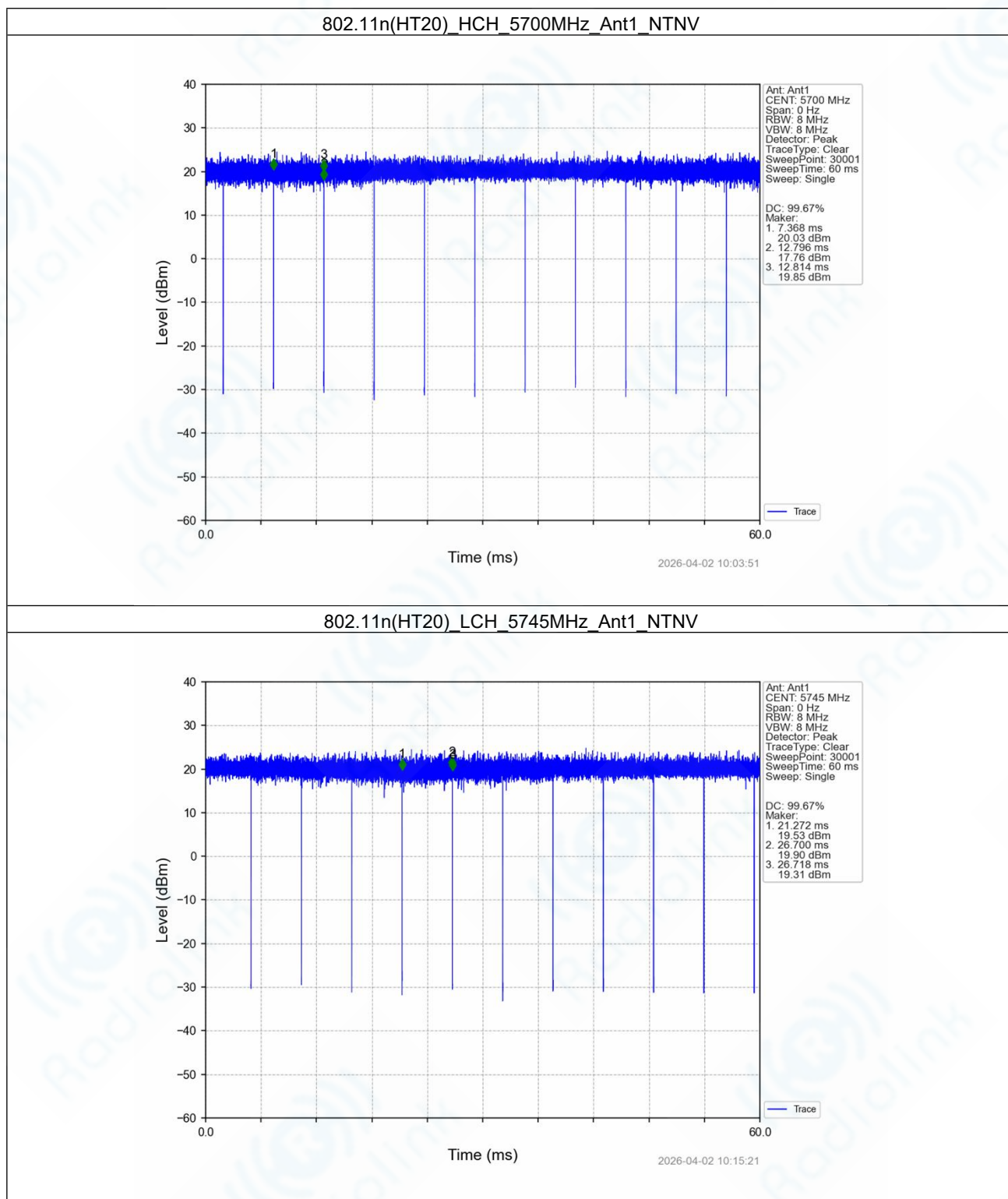


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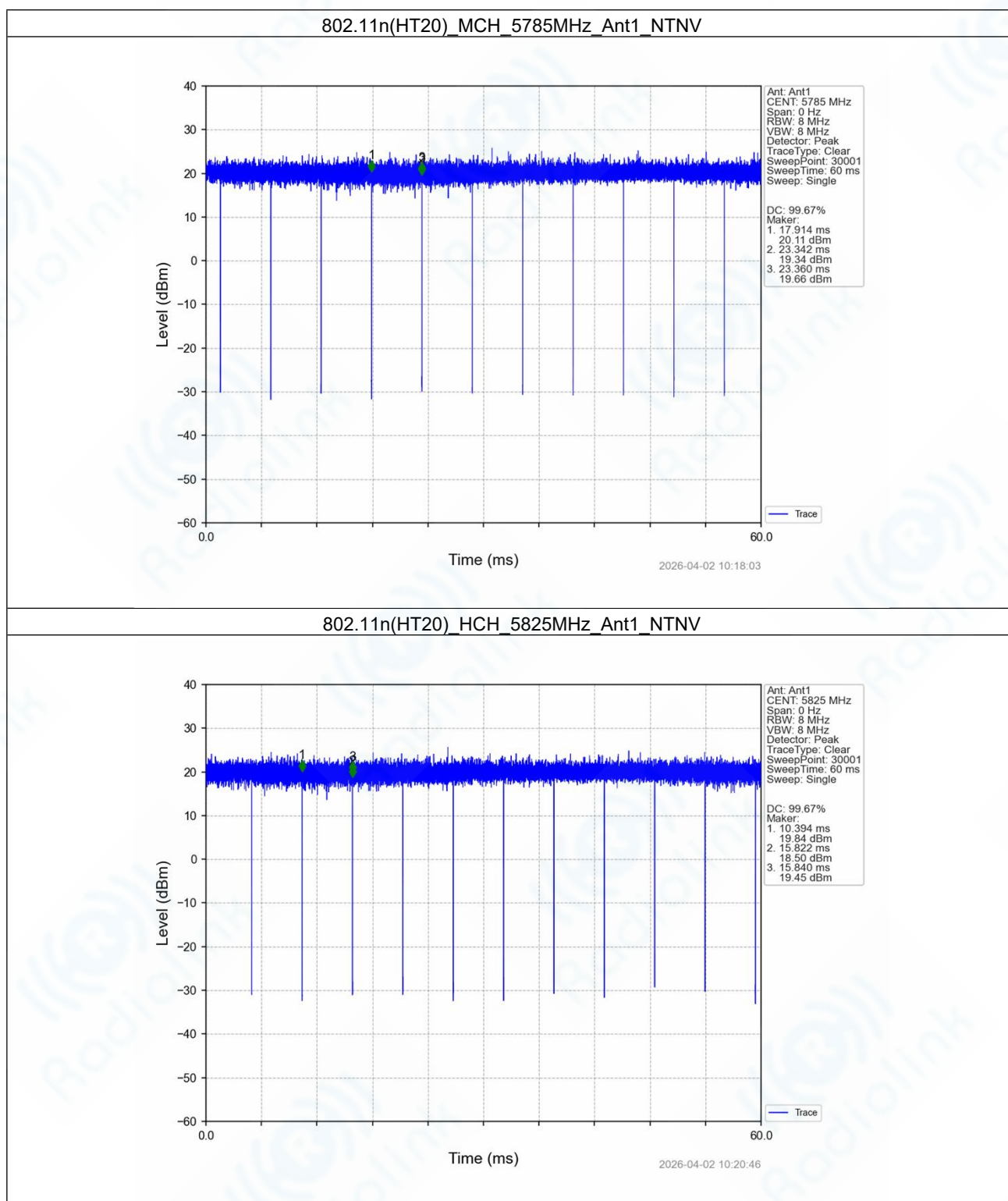




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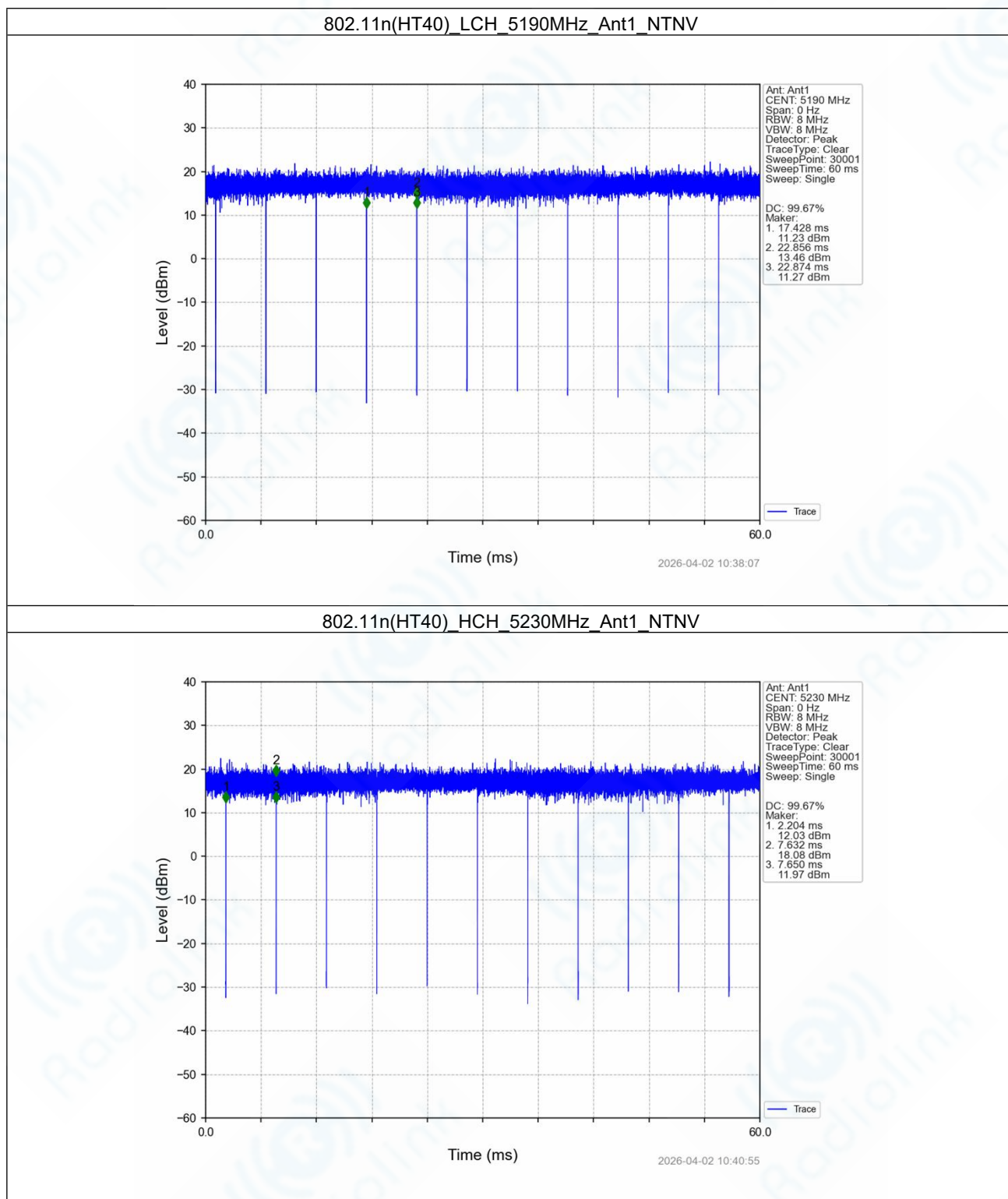
Tel: +86 0755 23080694

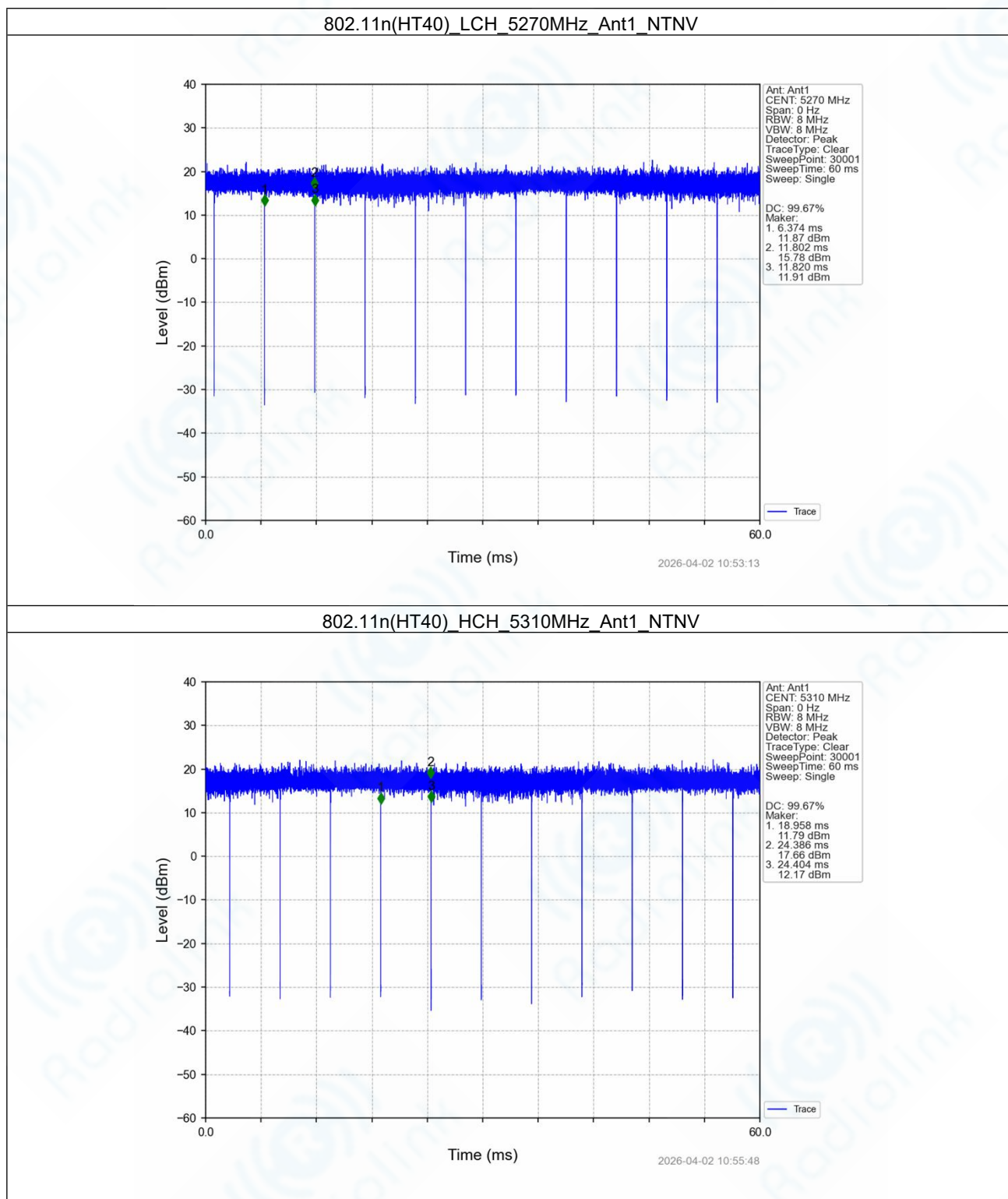


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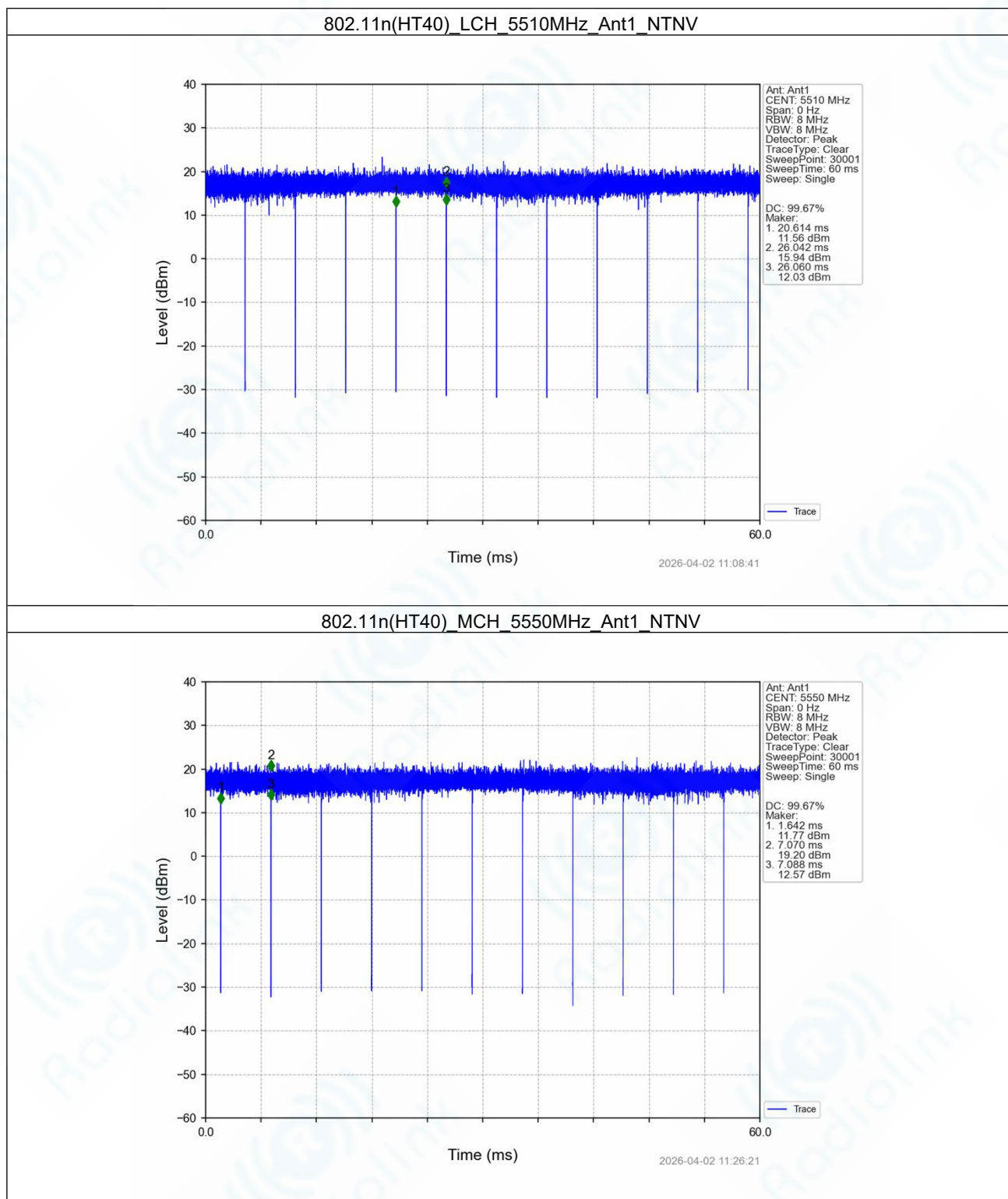




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