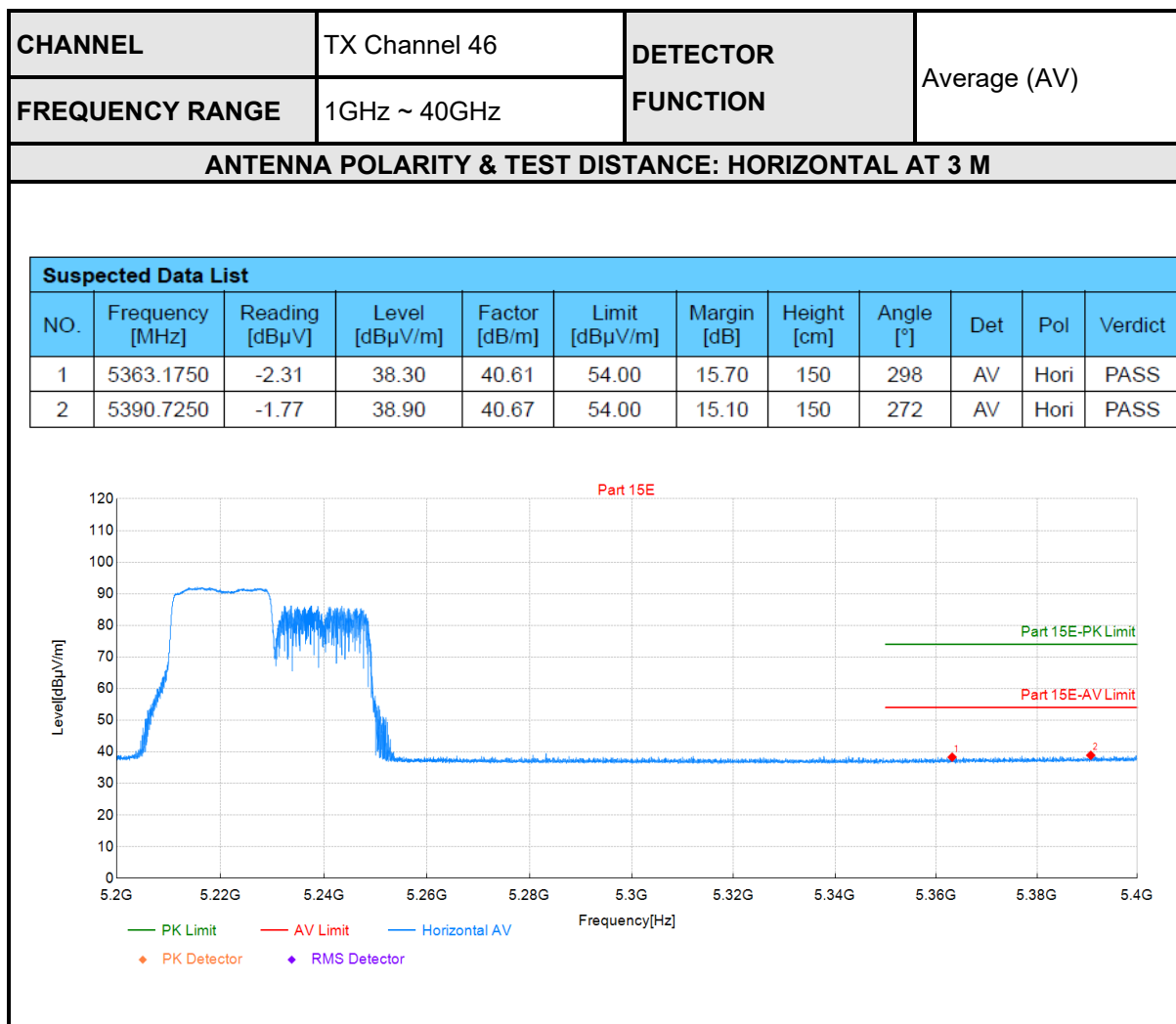
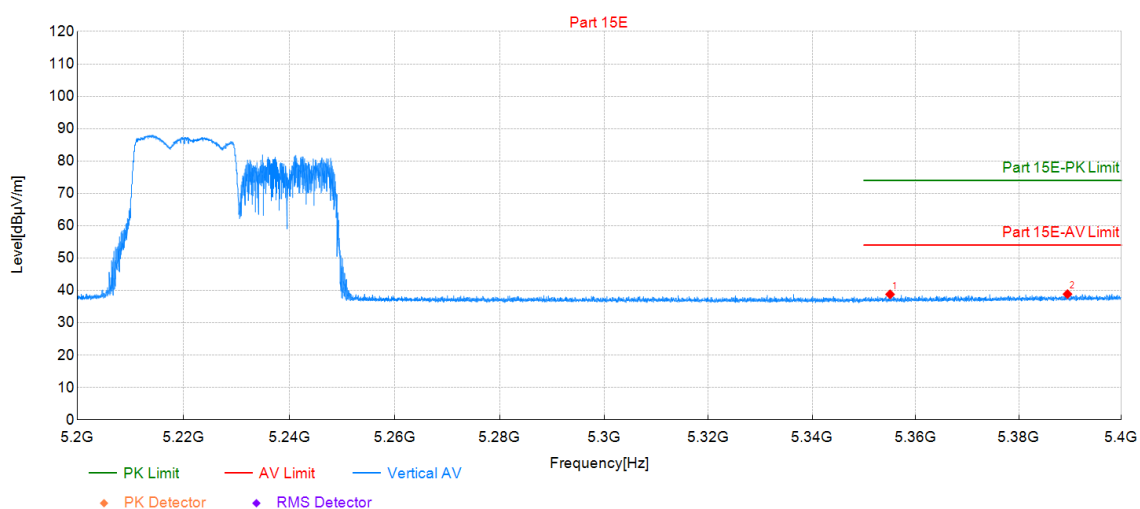




ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

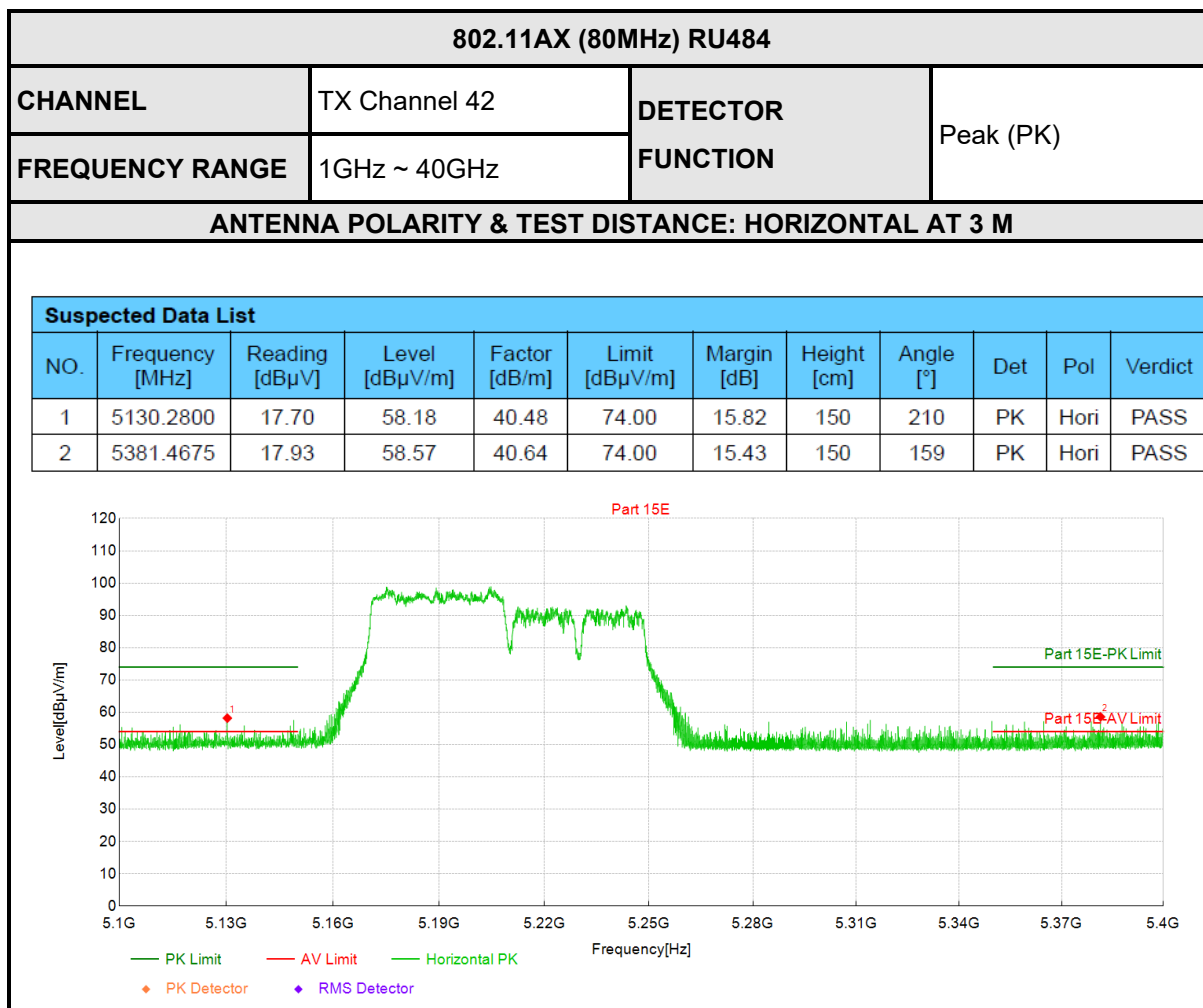
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	5355.0500	-1.79	38.79	40.58	54.00	15.21	150	2	AV	Vert	PASS
2	5389.5000	-1.80	38.87	40.67	54.00	15.13	150	288	AV	Vert	PASS



REMARKS:

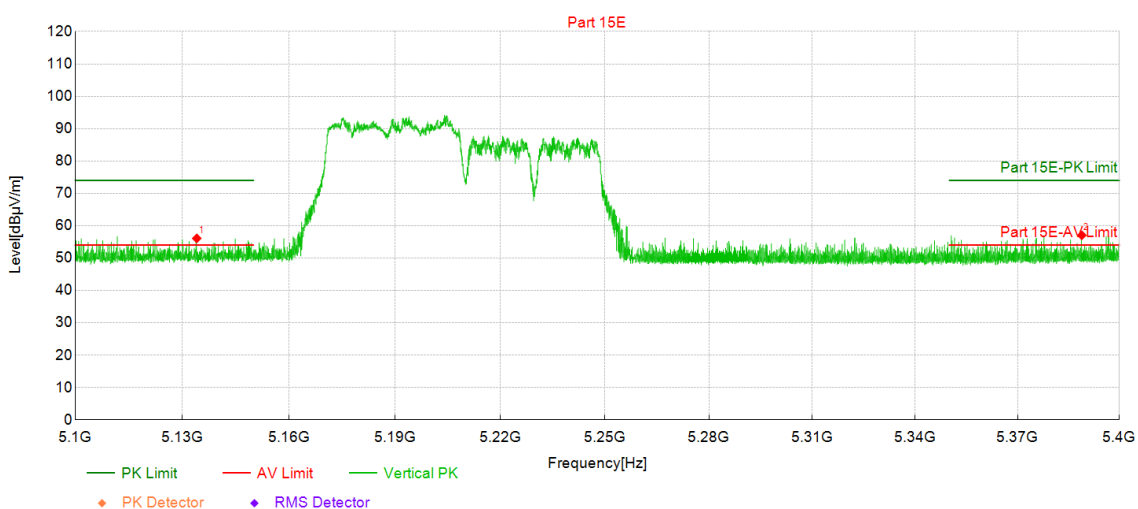
- 1 Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
- 2 Margin value = Limit value- Emission level.
- 3 5230MHz: Fundamental frequency.

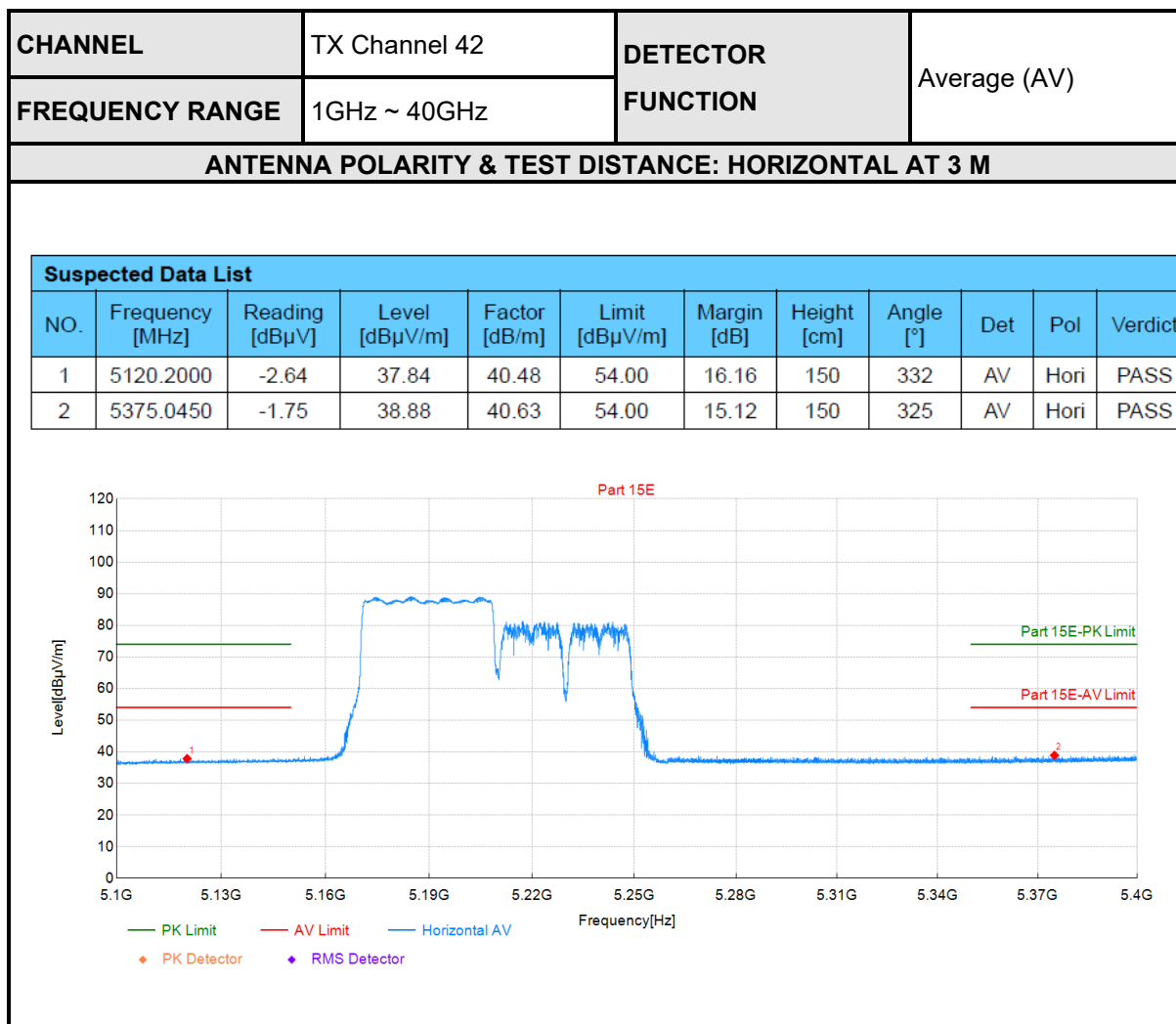


ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	5134.0400	15.60	56.08	40.48	74.00	17.92	150	316	PK	Vert	PASS
2	5388.9050	16.37	57.04	40.67	74.00	16.96	150	189	PK	Vert	PASS

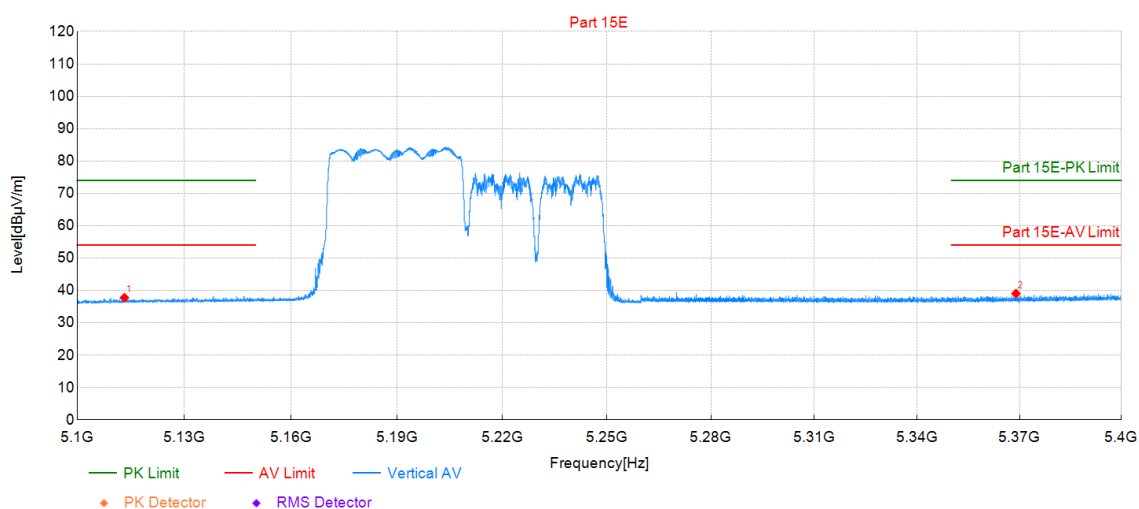




ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	5113.2000	-2.72	37.76	40.48	54.00	16.24	150	306	AV	Vert	PASS
2	5368.9375	-1.57	39.05	40.62	54.00	14.95	150	159	AV	Vert	PASS



REMARKS:

- 1 Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
- 2 Margin value = Limit value- Emission level.
- 3 5210MHz: Fundamental frequency.

BADN 2

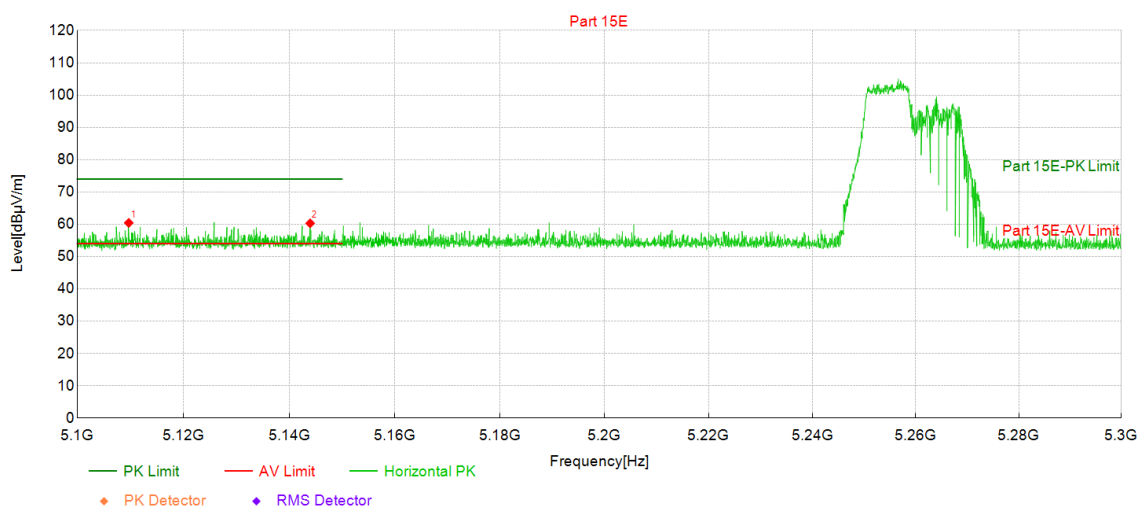
802.11AX (20MHz) RU106

CHANNEL	TX Channel 52	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Suspected Data List

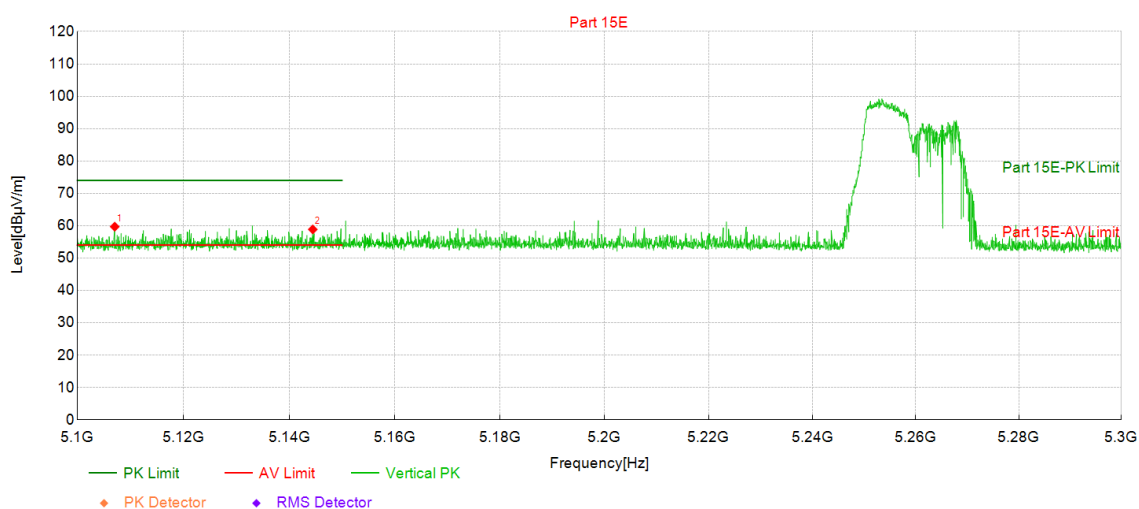
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	5109.7000	19.96	60.43	40.47	74.00	13.57	150	267	PK	Hori	PASS
2	5143.9500	19.81	60.30	40.49	74.00	13.70	150	298	PK	Hori	PASS

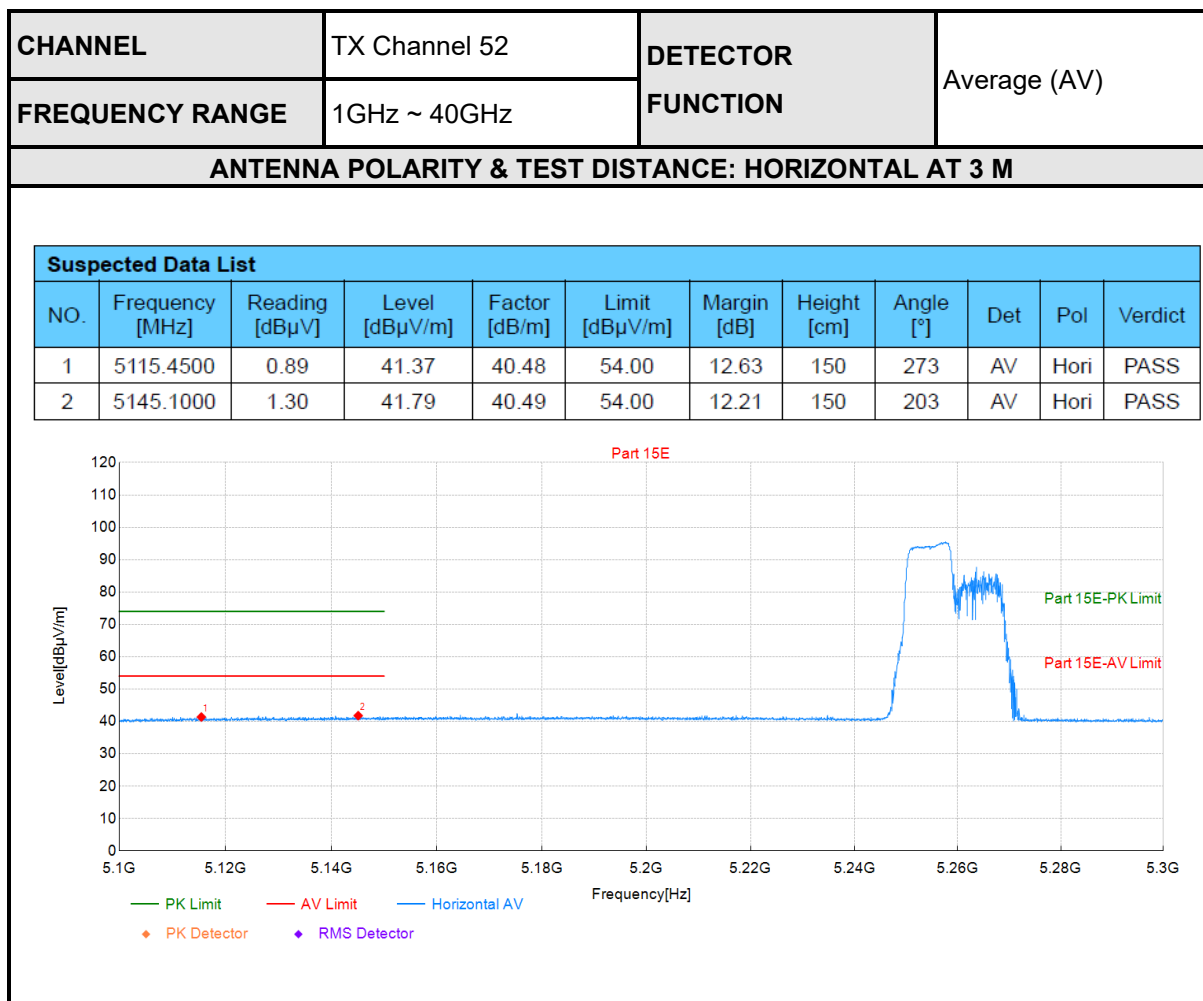


ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	5107.0500	19.23	59.70	40.47	74.00	14.30	150	33	PK	Vert	PASS
2	5144.4500	18.37	58.86	40.49	74.00	15.14	150	304	PK	Vert	PASS

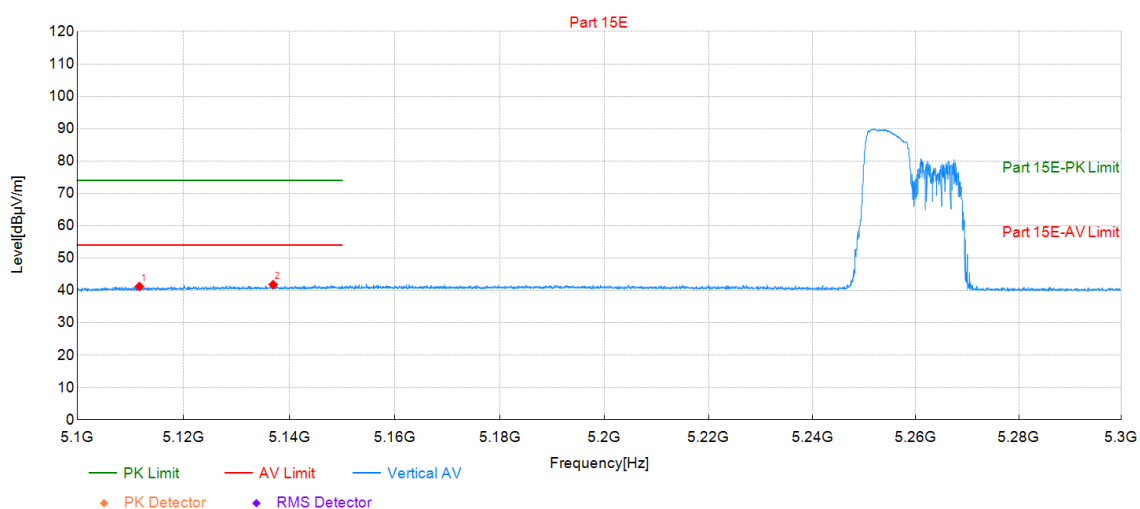




ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

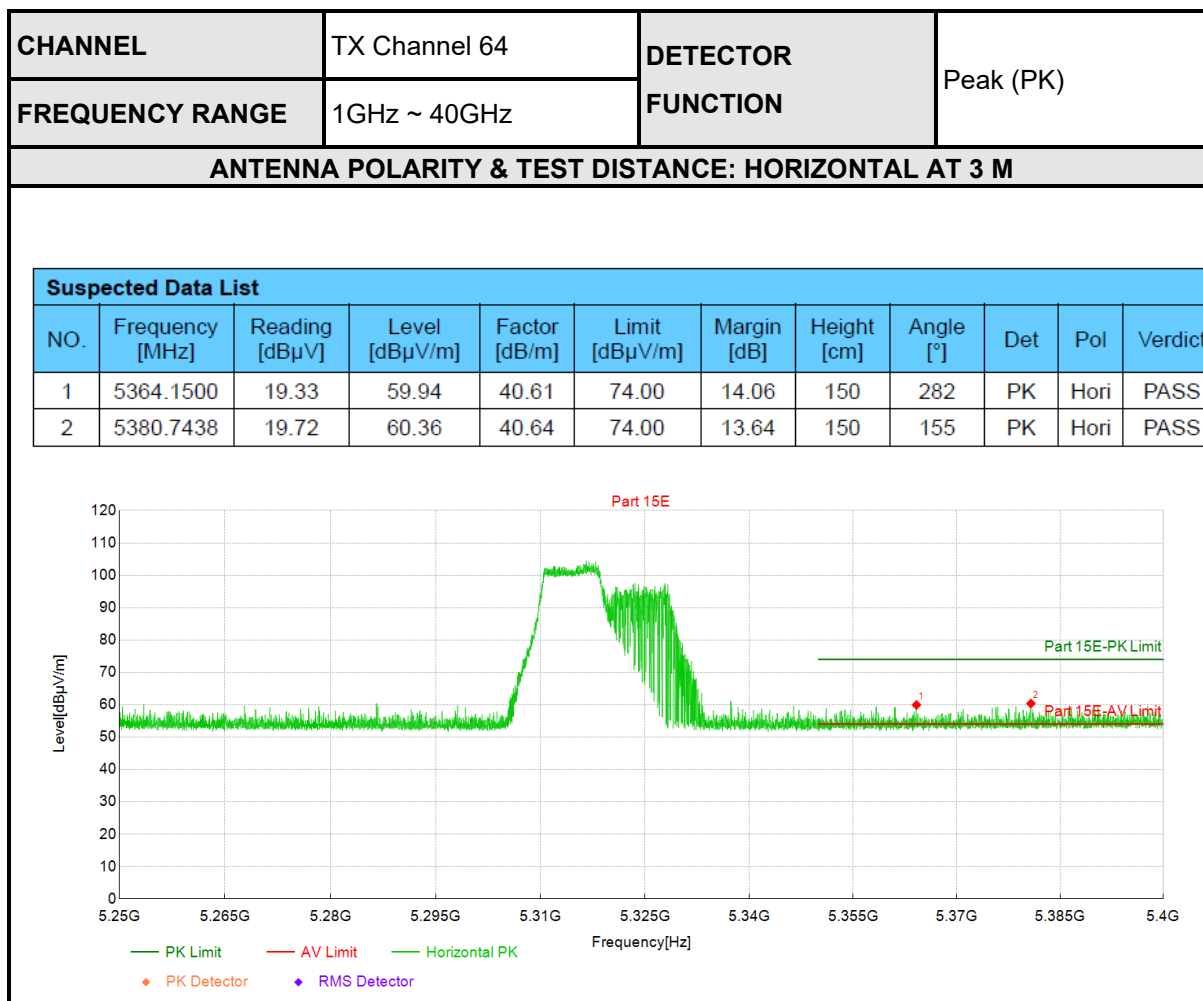
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	5111.7000	0.75	41.22	40.47	54.00	12.78	150	161	AV	Vert	PASS
2	5136.9500	1.31	41.79	40.48	54.00	12.21	150	70	AV	Vert	PASS



REMARKS:

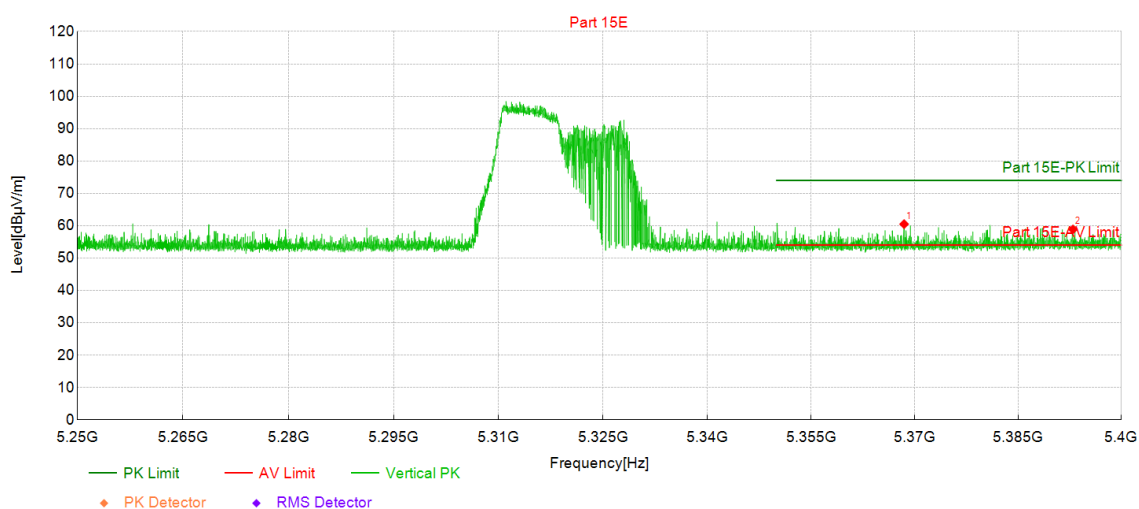
- 1 Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
- 2 Margin value = Limit value- Emission level.
- 3 5260MHz: Fundamental frequency.

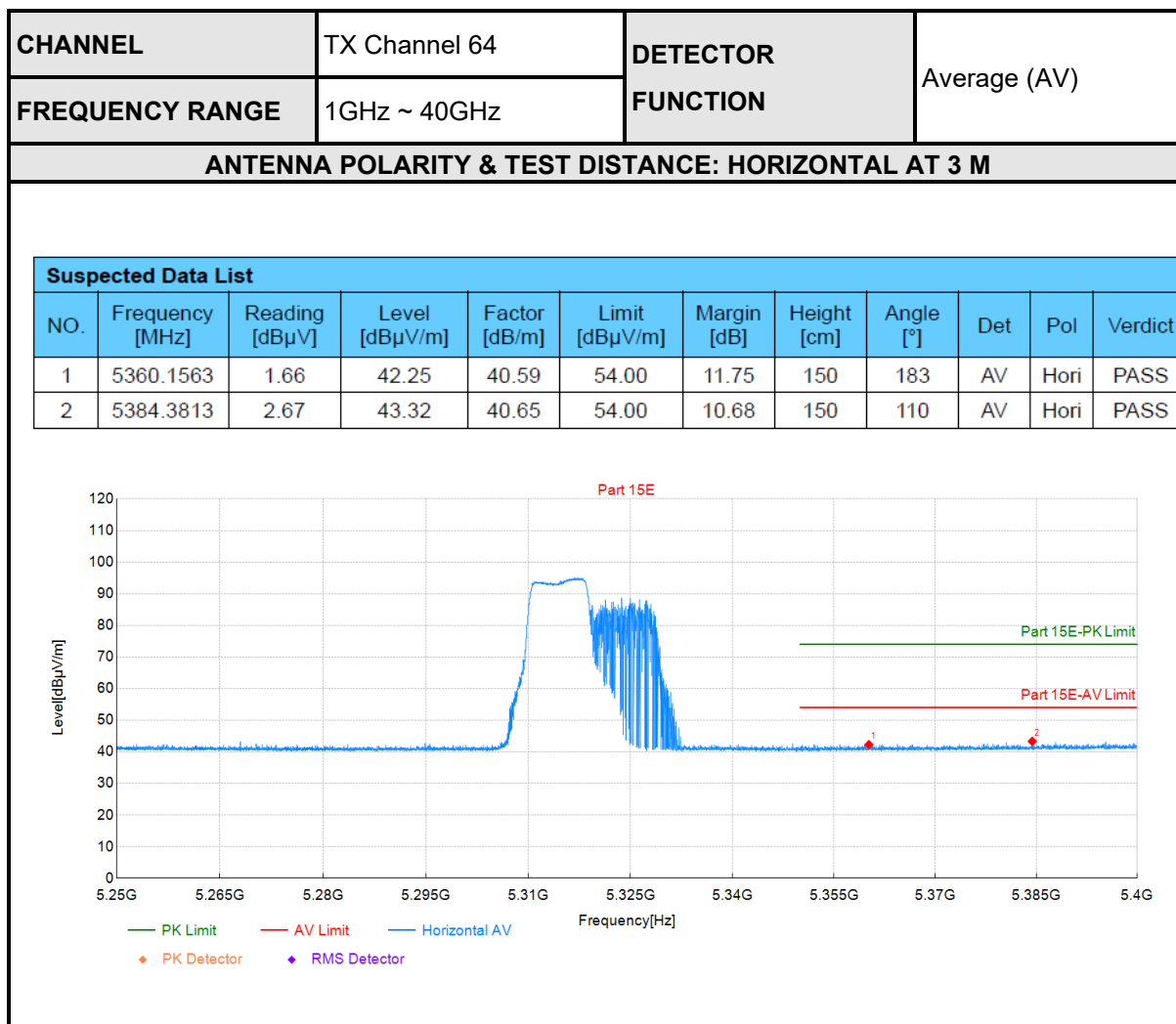


ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	5368.4438	19.87	60.49	40.62	74.00	13.51	150	190	PK	Vert	PASS
2	5392.9500	18.17	58.85	40.68	74.00	15.15	150	231	PK	Vert	PASS

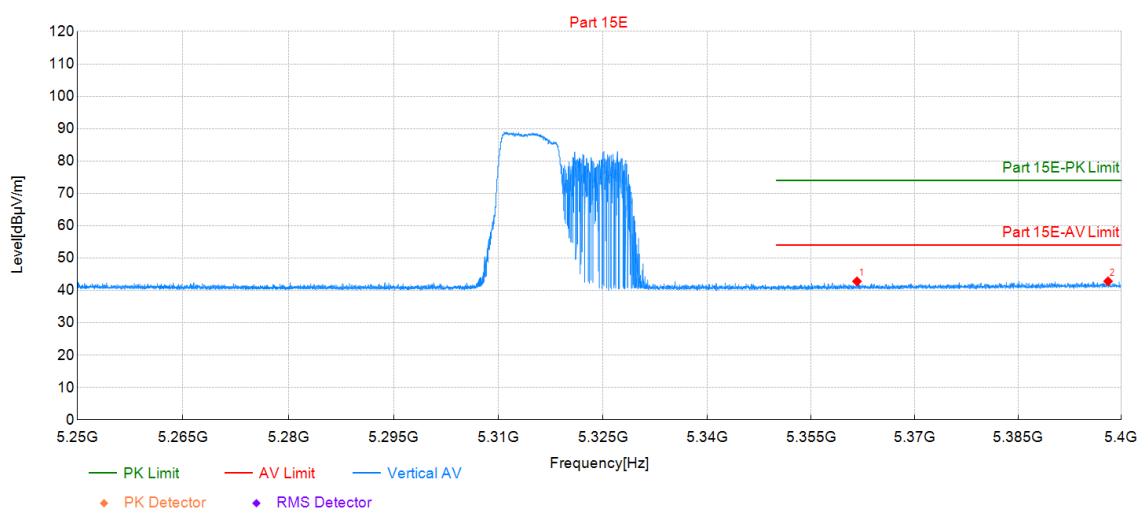




ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

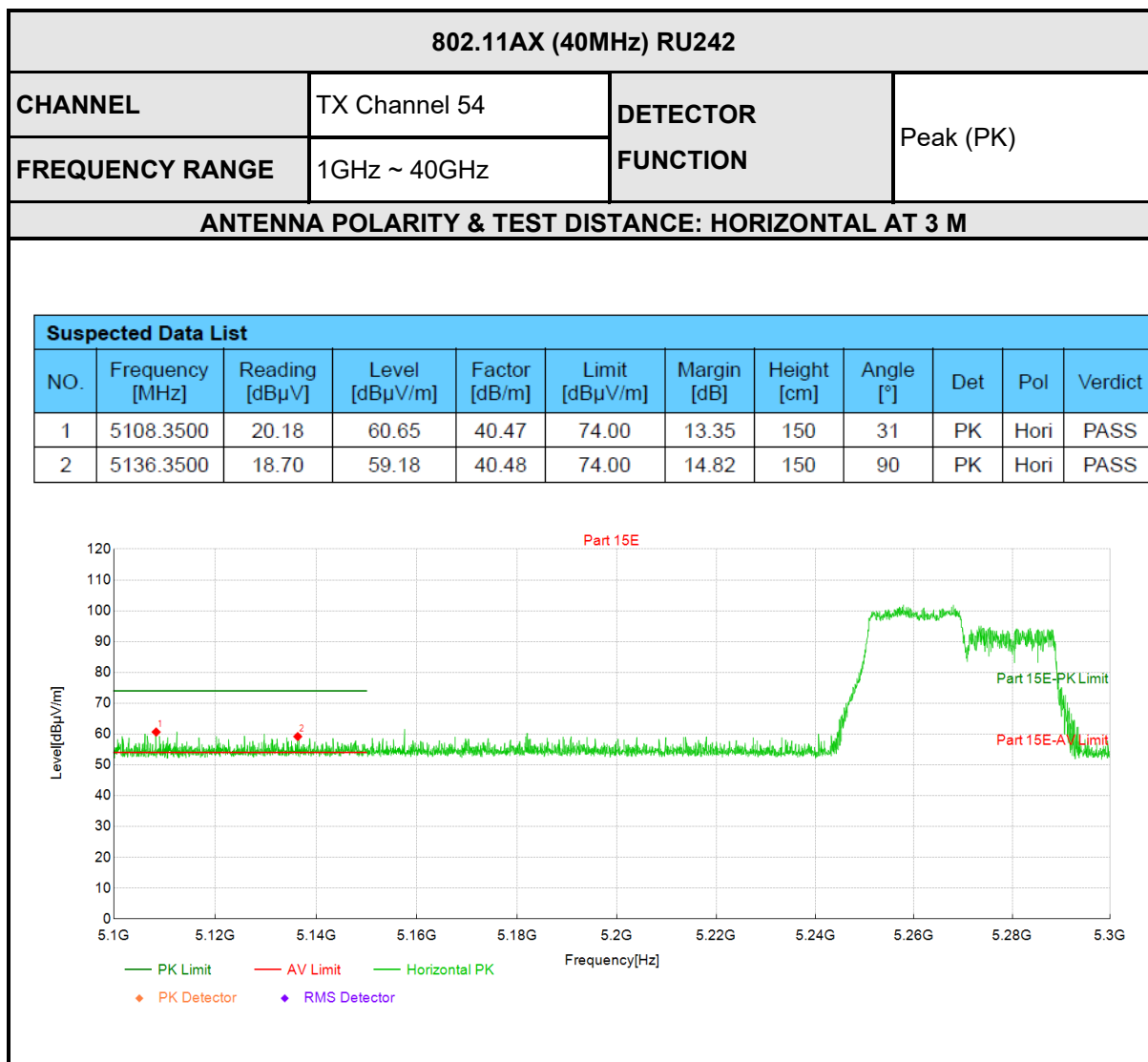
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	5361.6188	2.21	42.80	40.59	54.00	11.20	150	230	AV	Vert	PASS
2	5398.0688	2.14	42.83	40.69	54.00	11.17	150	230	AV	Vert	PASS



REMARKS:

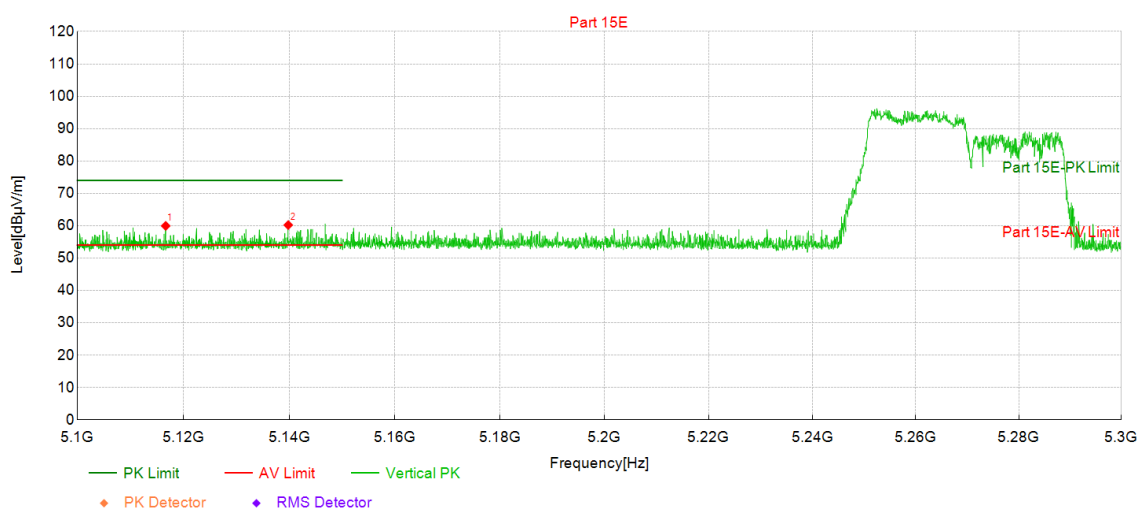
- 1 Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
- 2 Margin value = Limit value- Emission level.
- 3 5320MHz: Fundamental frequency.

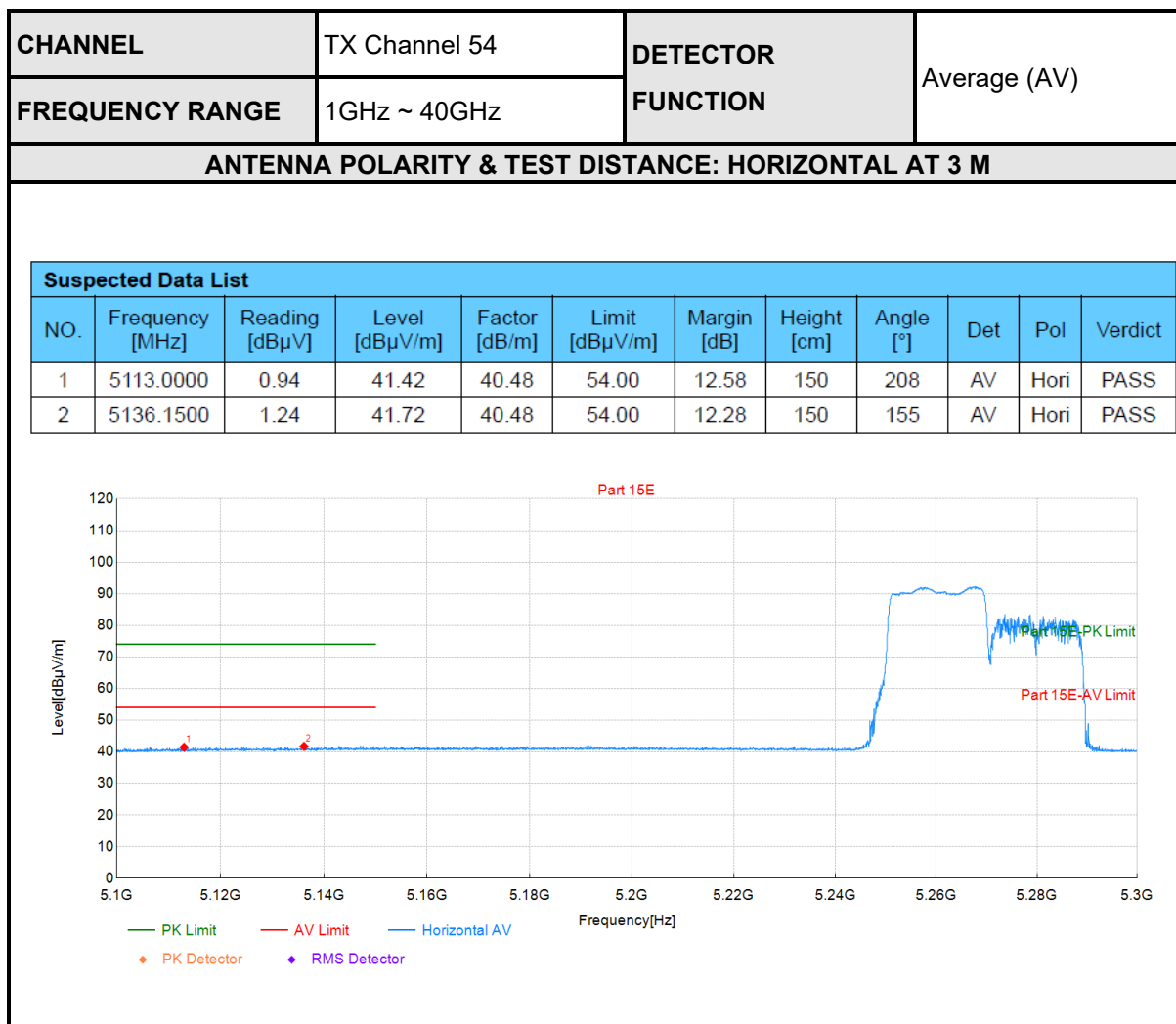


ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	5116.6500	19.46	59.94	40.48	74.00	14.06	150	307	PK	Vert	PASS
2	5139.8000	19.72	60.21	40.49	74.00	13.79	150	279	PK	Vert	PASS

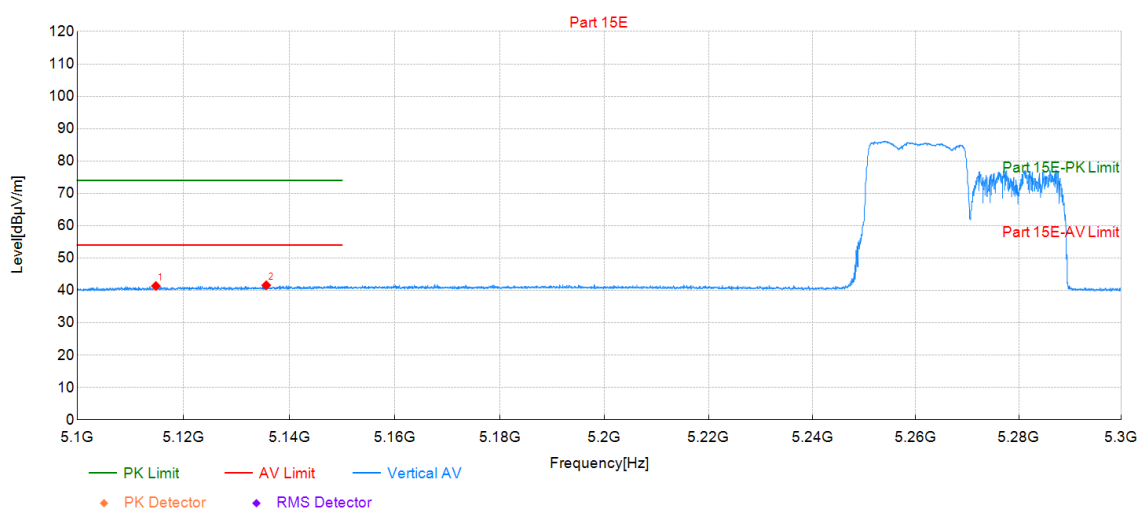




ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

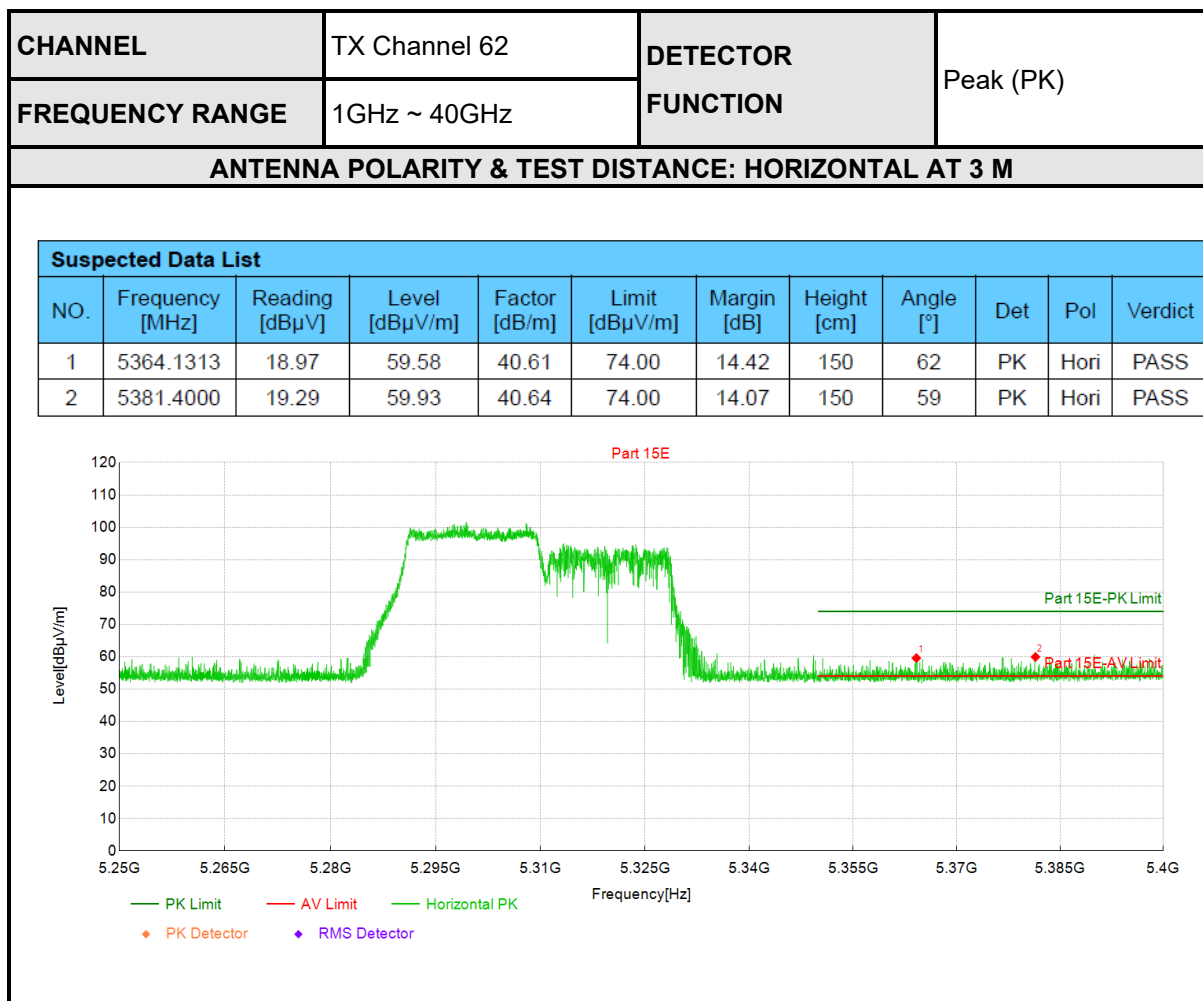
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	5114.8000	0.90	41.38	40.48	54.00	12.62	150	276	AV	Vert	PASS
2	5135.6500	1.12	41.60	40.48	54.00	12.40	150	237	AV	Vert	PASS



REMARKS:

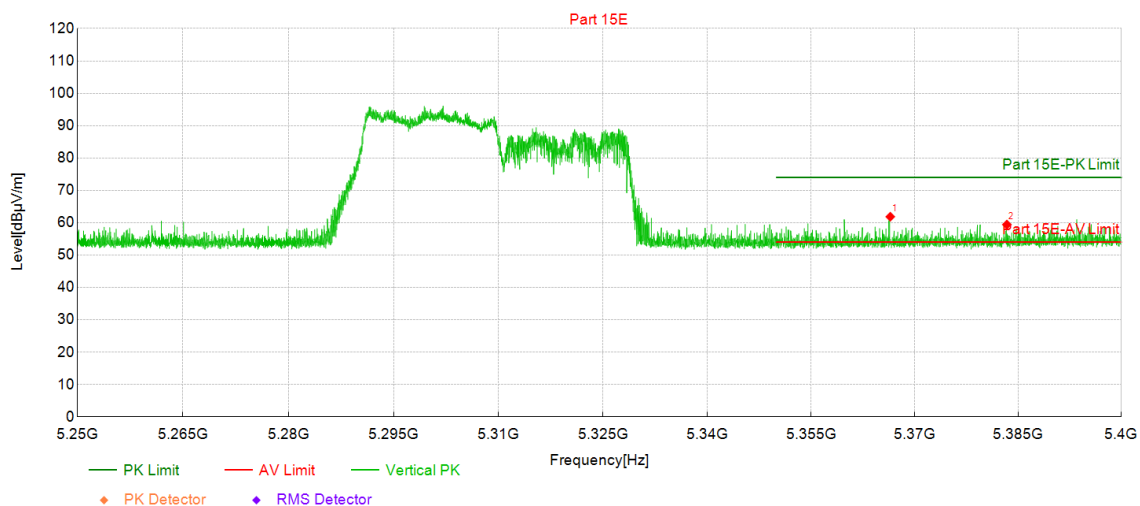
- 1 Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
- 2 Margin value = Limit value- Emission level.
- 3 5270MHz: Fundamental frequency.

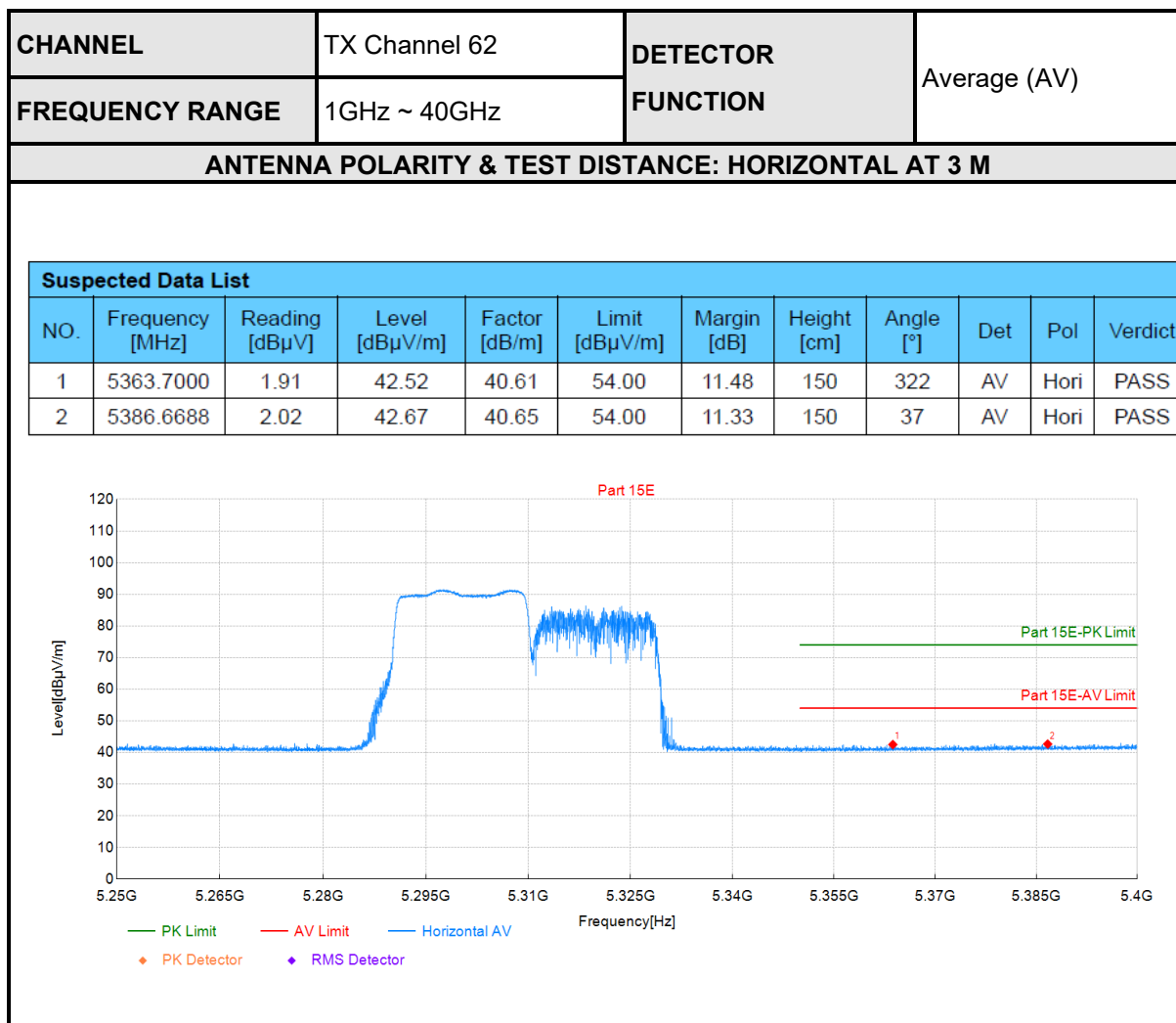


ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	5366.4375	21.24	61.85	40.61	74.00	12.15	150	167	PK	Vert	PASS
2	5383.3500	18.77	59.42	40.65	74.00	14.58	150	215	PK	Vert	PASS

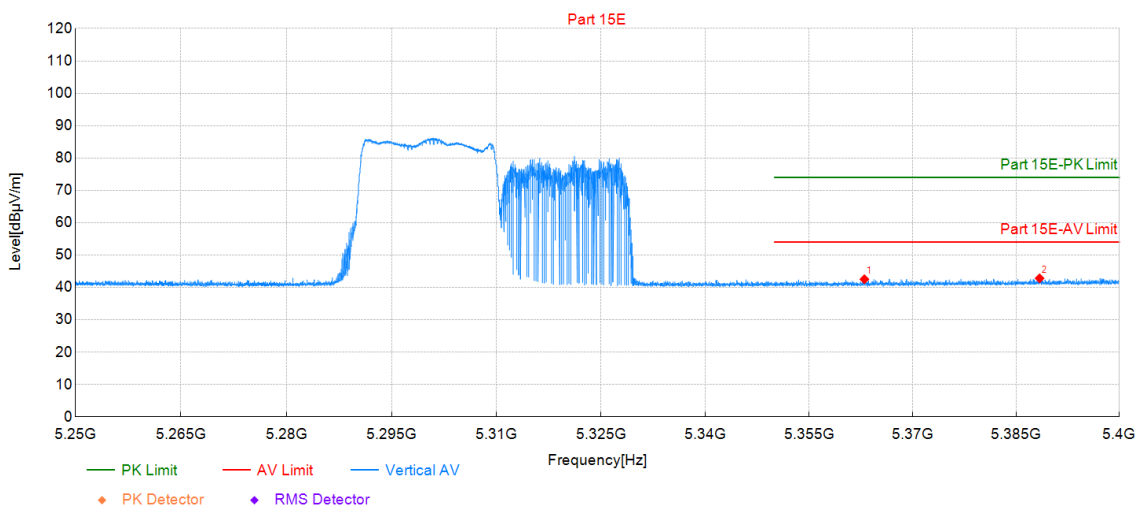




ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

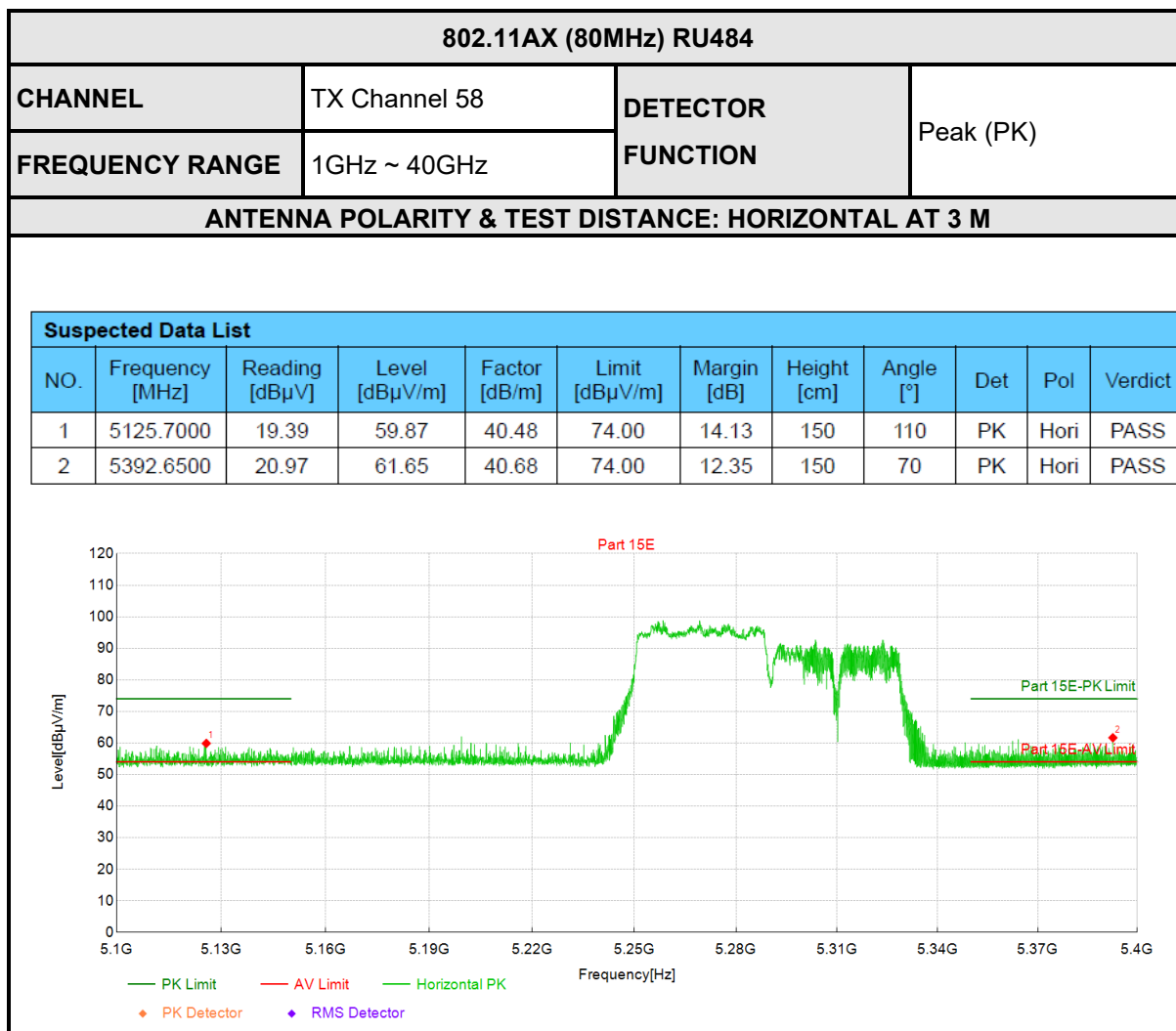
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	5362.9875	1.92	42.53	40.61	54.00	11.47	150	208	AV	Vert	PASS
2	5388.3938	2.15	42.82	40.67	54.00	11.18	150	103	AV	Vert	PASS



REMARKS:

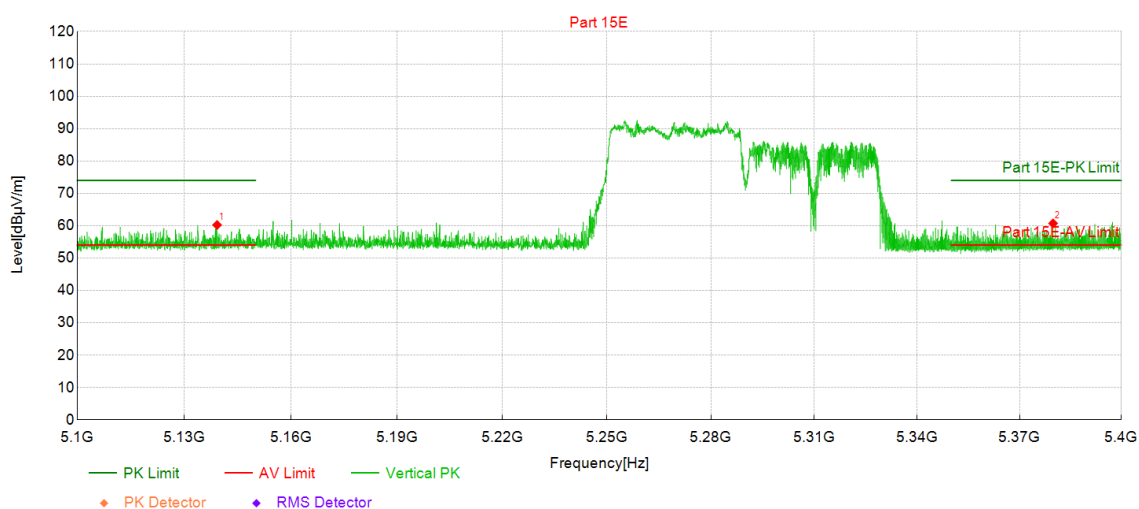
- 1 Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
- 2 Margin value = Limit value- Emission level.
- 3 5310MHz: Fundamental frequency.

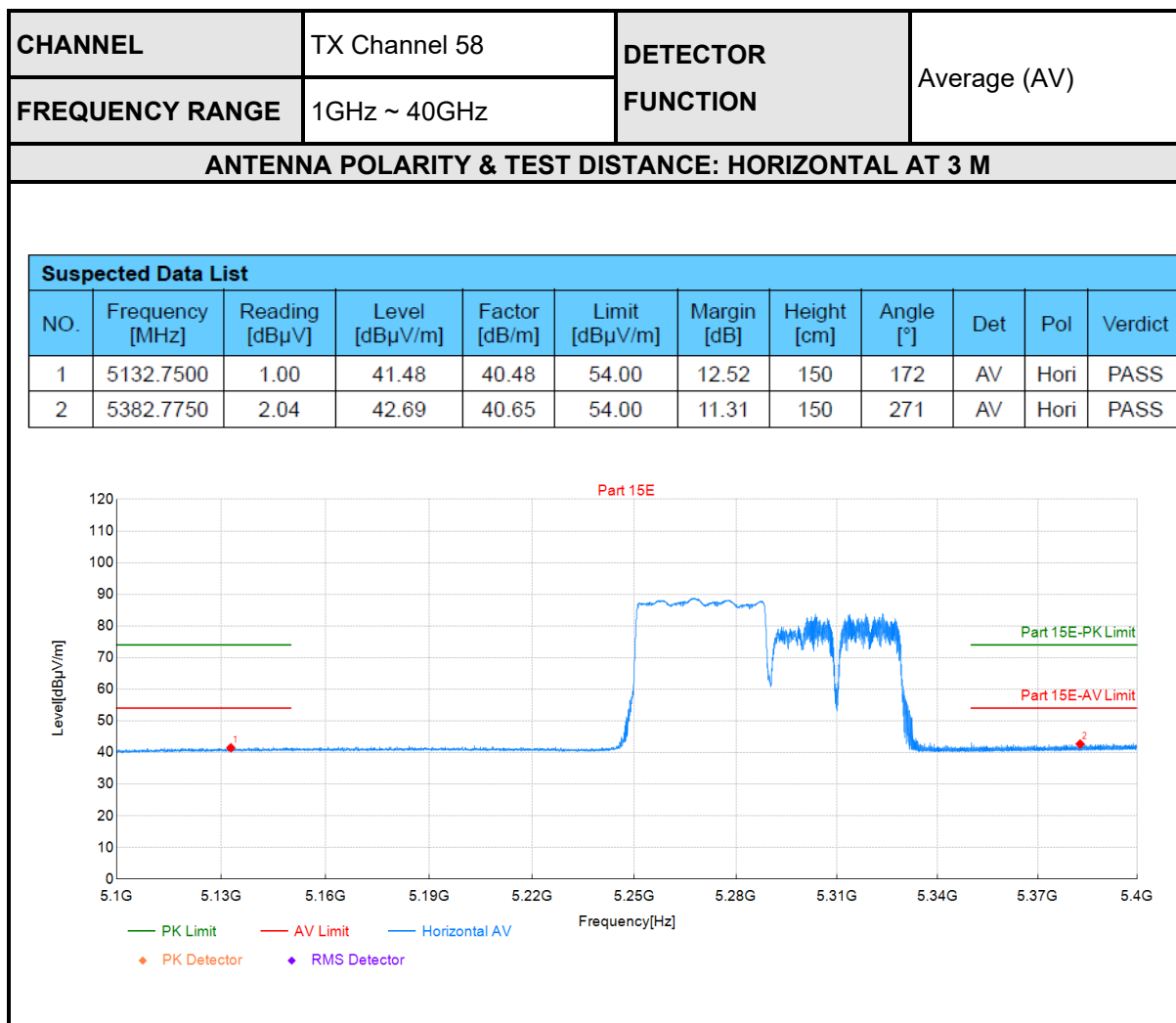


ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	5139.2000	19.74	60.23	40.49	74.00	13.77	150	135	PK	Vert	PASS
2	5379.8500	20.08	60.72	40.64	74.00	13.28	150	327	PK	Vert	PASS

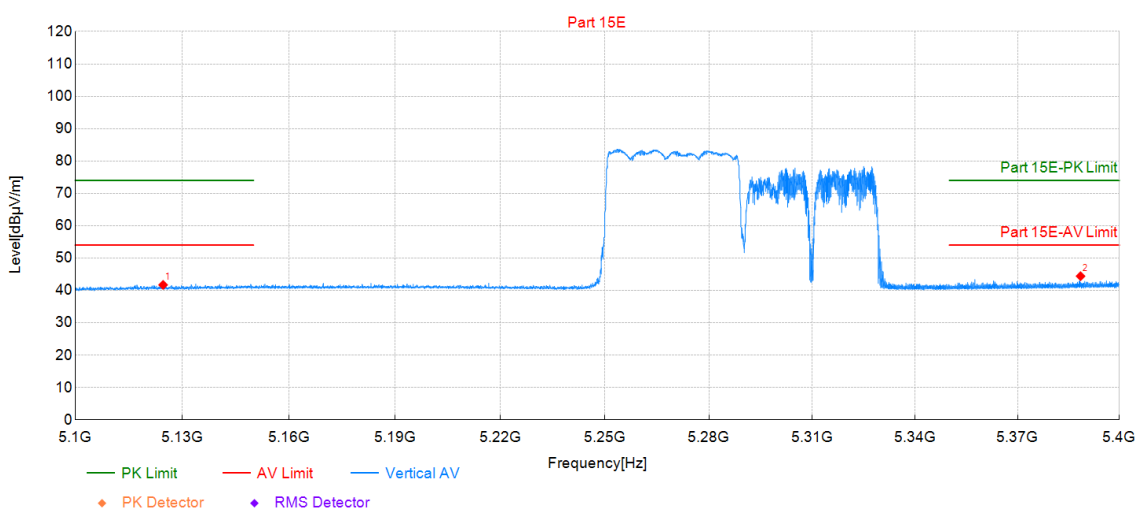




ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	5124.6000	1.23	41.71	40.48	54.00	12.29	150	47	AV	Vert	PASS
2	5388.5500	3.74	44.41	40.67	54.00	9.59	150	8	AV	Vert	PASS



REMARKS:

- 1 Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
- 2 Margin value = Limit value- Emission level.
- 3 5290MHz: Fundamental frequency.

BADN 3

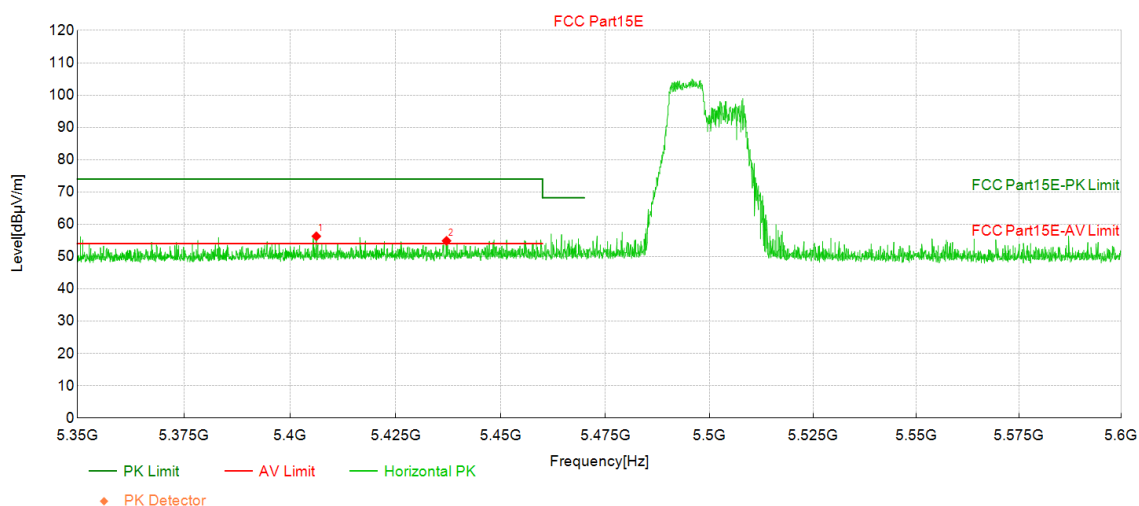
802.11AX (20MHz) RU106

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Suspected Data List

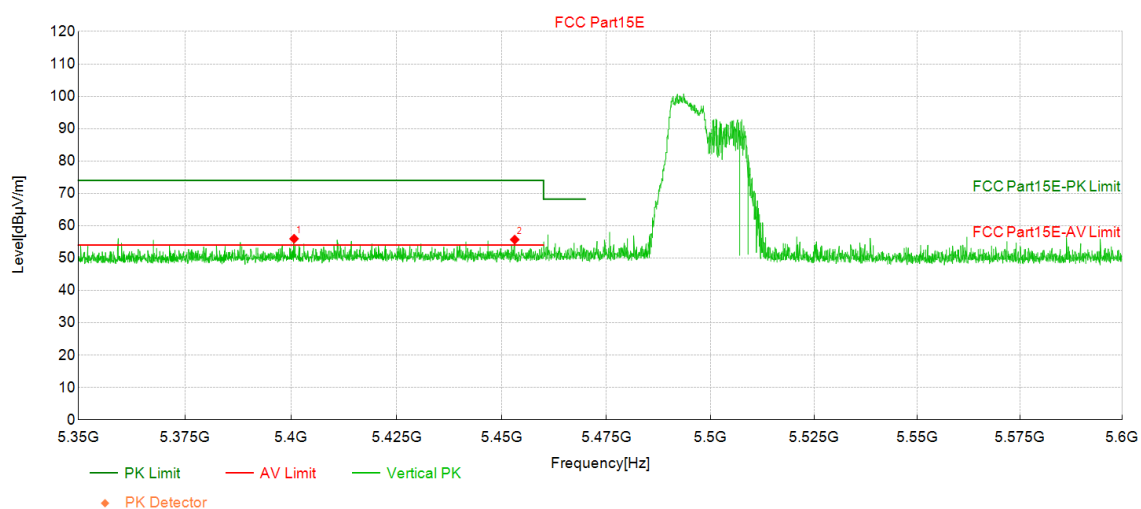
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	5406.2500	15.61	56.29	40.68	74.00	17.71	150	147	PK	Hori	PASS
2	5437.1250	14.24	54.87	40.63	74.00	19.13	150	155	PK	Hori	PASS

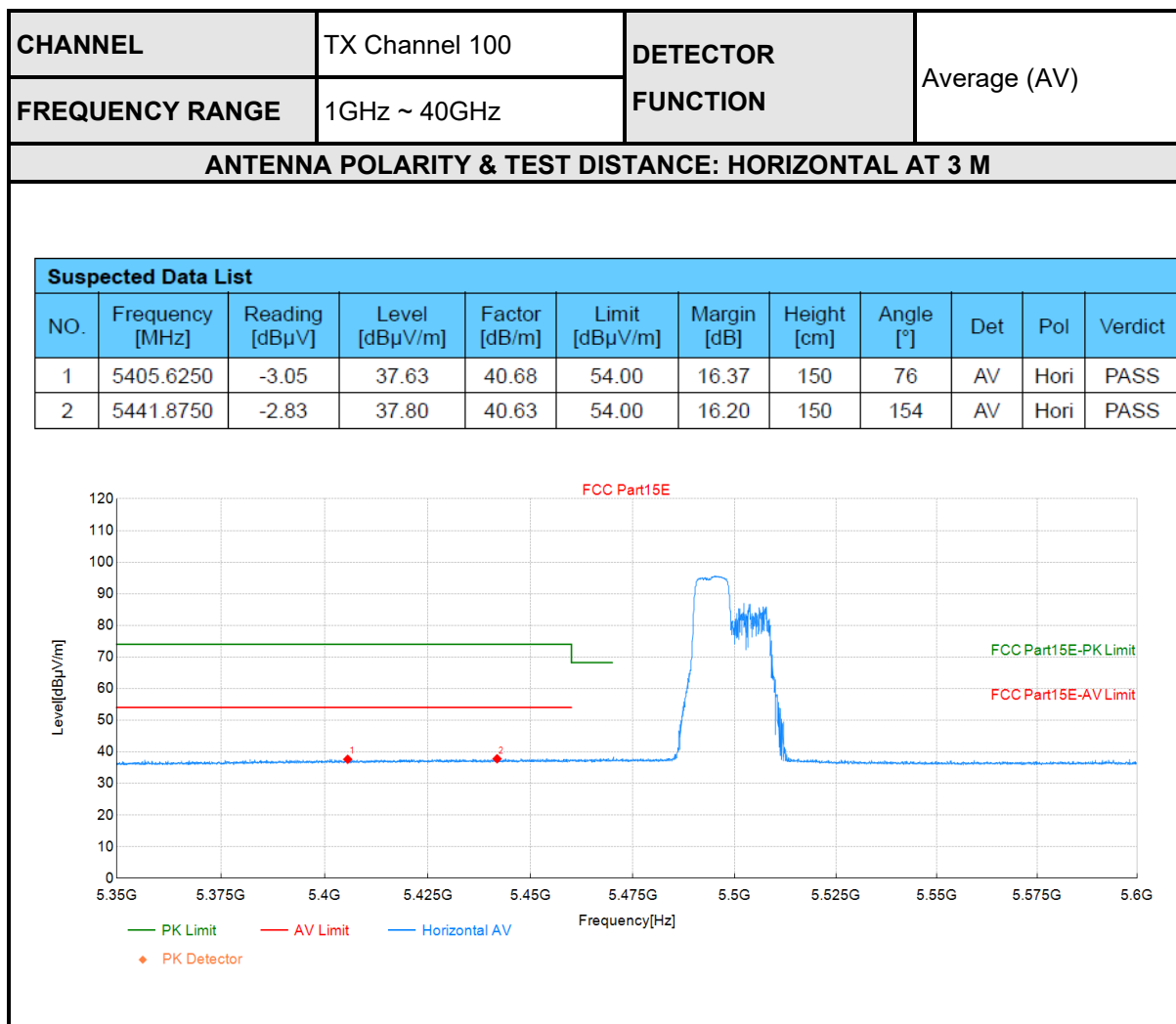


ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	5400.7500	15.28	55.97	40.69	74.00	18.03	150	220	PK	Vert	PASS
2	5453.1250	15.08	55.70	40.62	74.00	18.30	150	144	PK	Vert	PASS

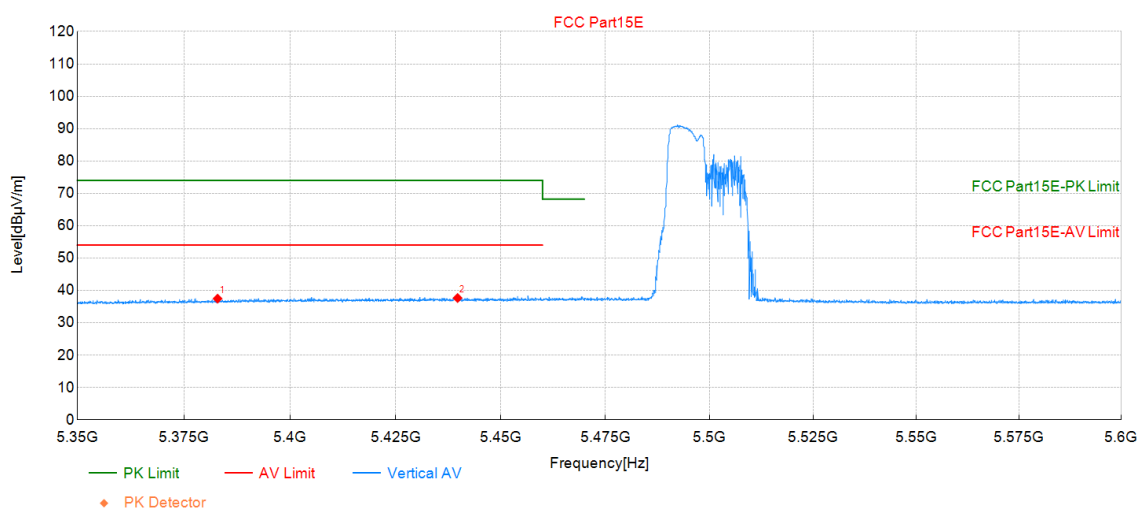




ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

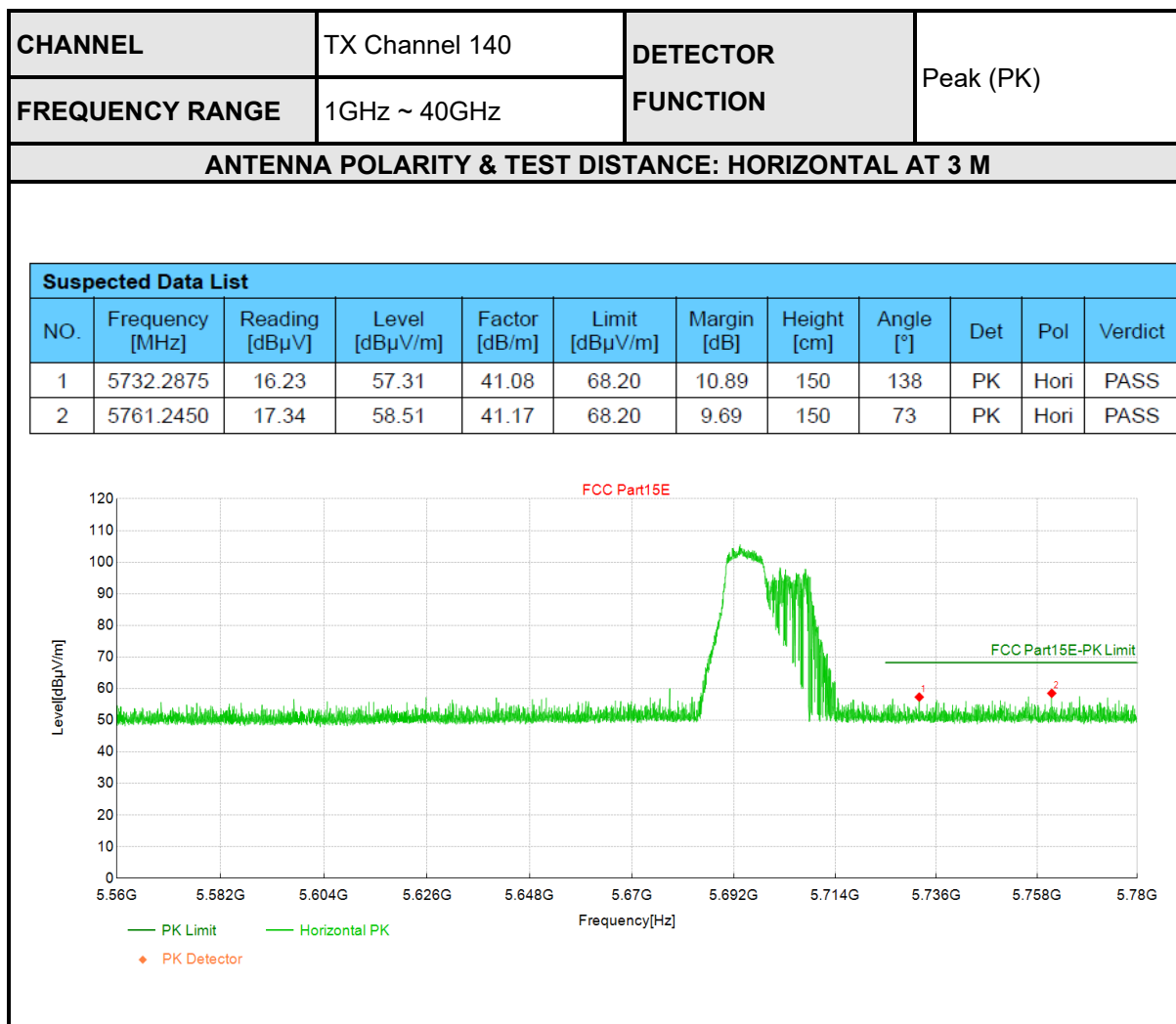
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	5382.9375	-3.19	37.46	40.65	54.00	16.54	150	96	AV	Vert	PASS
2	5439.7500	-2.97	37.66	40.63	54.00	16.34	150	115	AV	Vert	PASS



REMARKS:

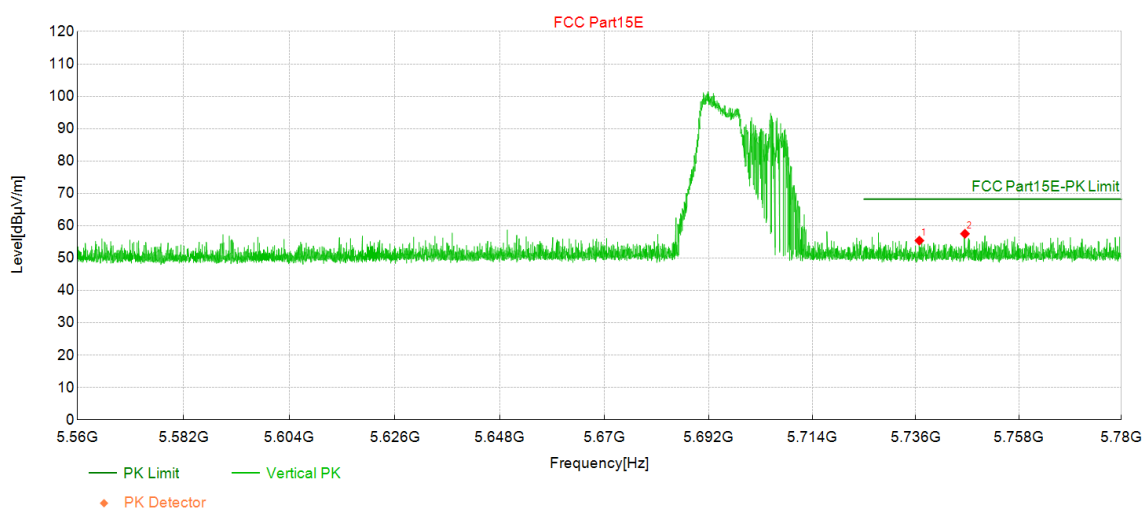
- 1 Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
- 2 Margin value = Limit value- Emission level.
- 3 5500MHz: Fundamental frequency.



ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

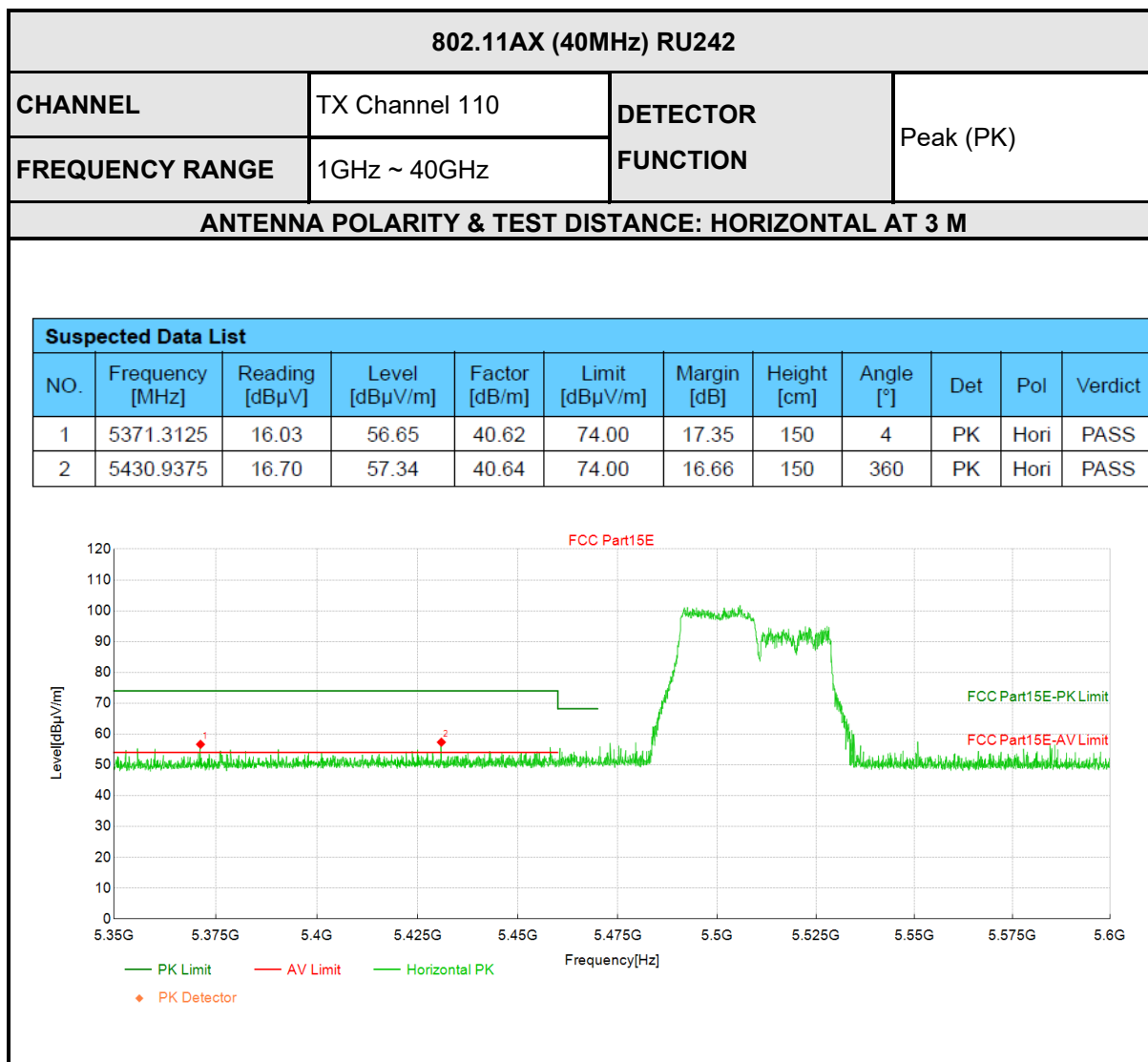
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	5736.7700	14.30	55.39	41.09	68.20	12.81	150	29	PK	Vert	PASS
2	5746.5050	16.39	57.51	41.12	68.20	10.69	150	230	PK	Vert	PASS



REMARKS:

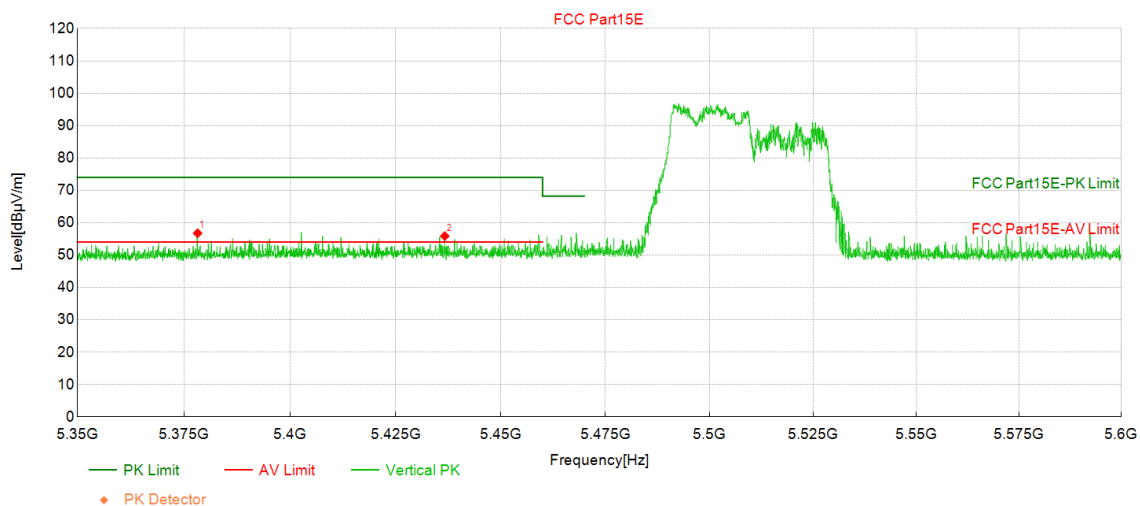
- 1 Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
- 2 Margin value = Limit value- Emission level.
- 3 5700MHz: Fundamental frequency.

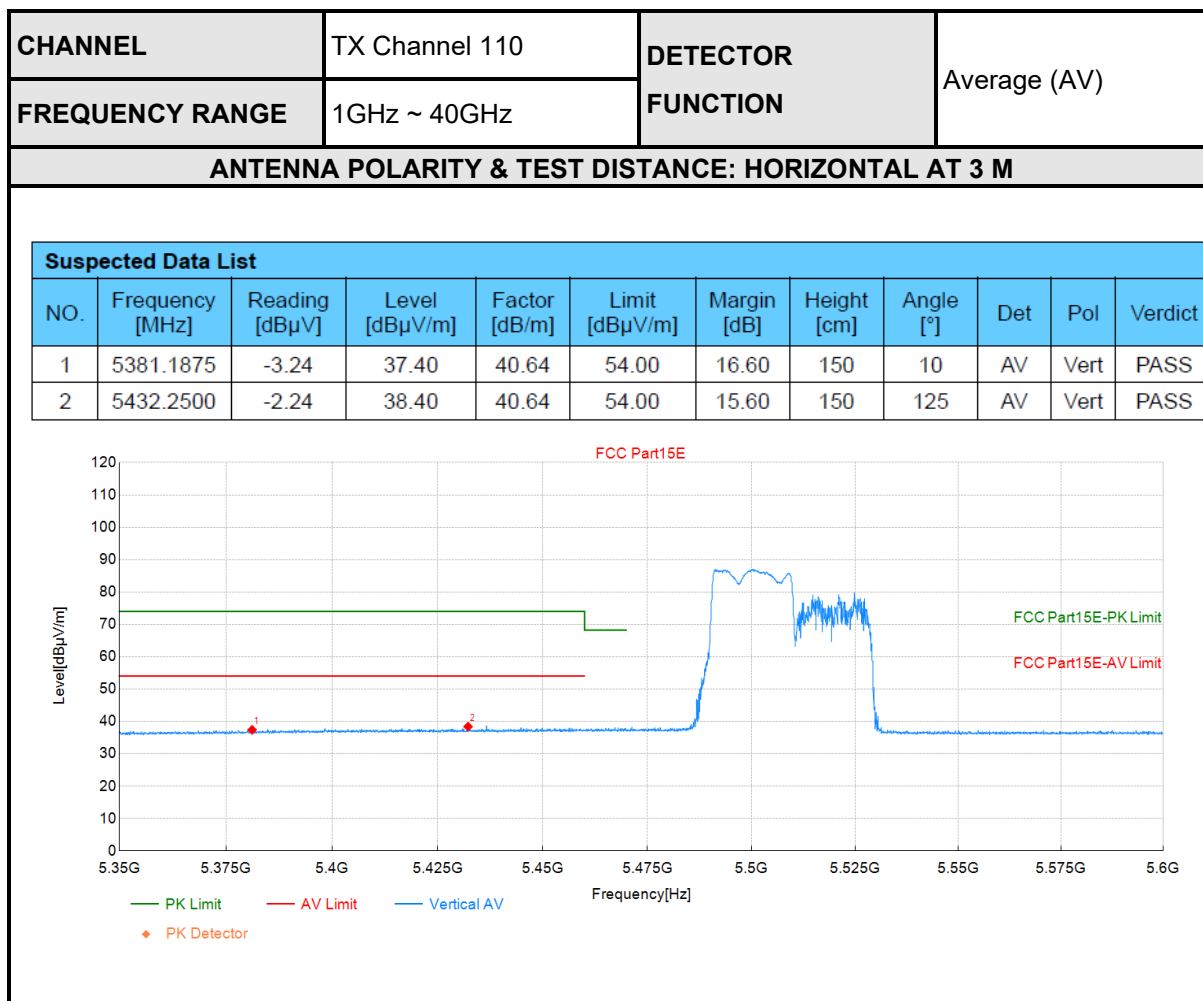


ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	5378.2500	16.11	56.75	40.64	74.00	17.25	150	300	PK	Vert	PASS
2	5436.6875	15.24	55.87	40.63	74.00	18.13	150	0	PK	Vert	PASS

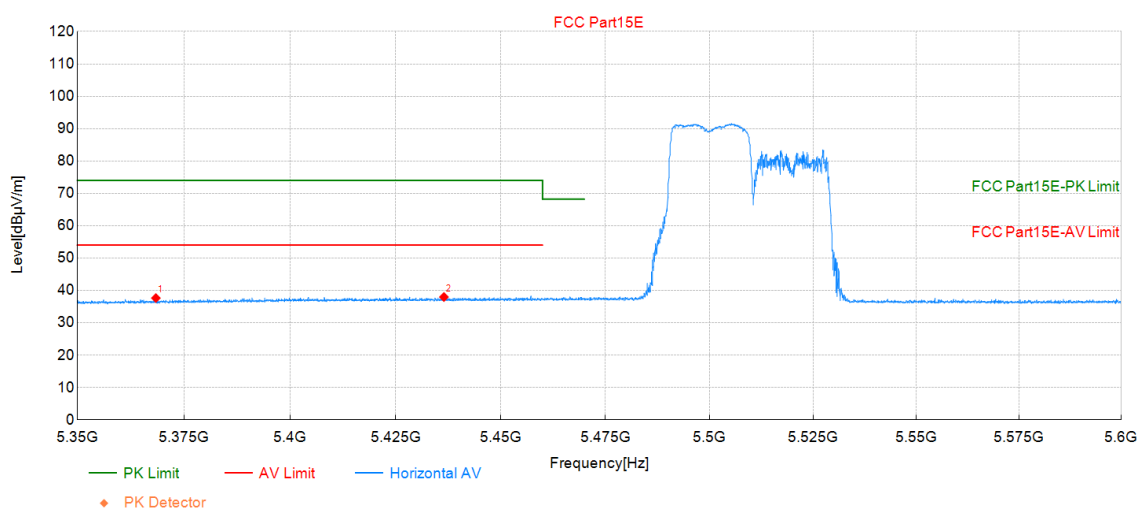




ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

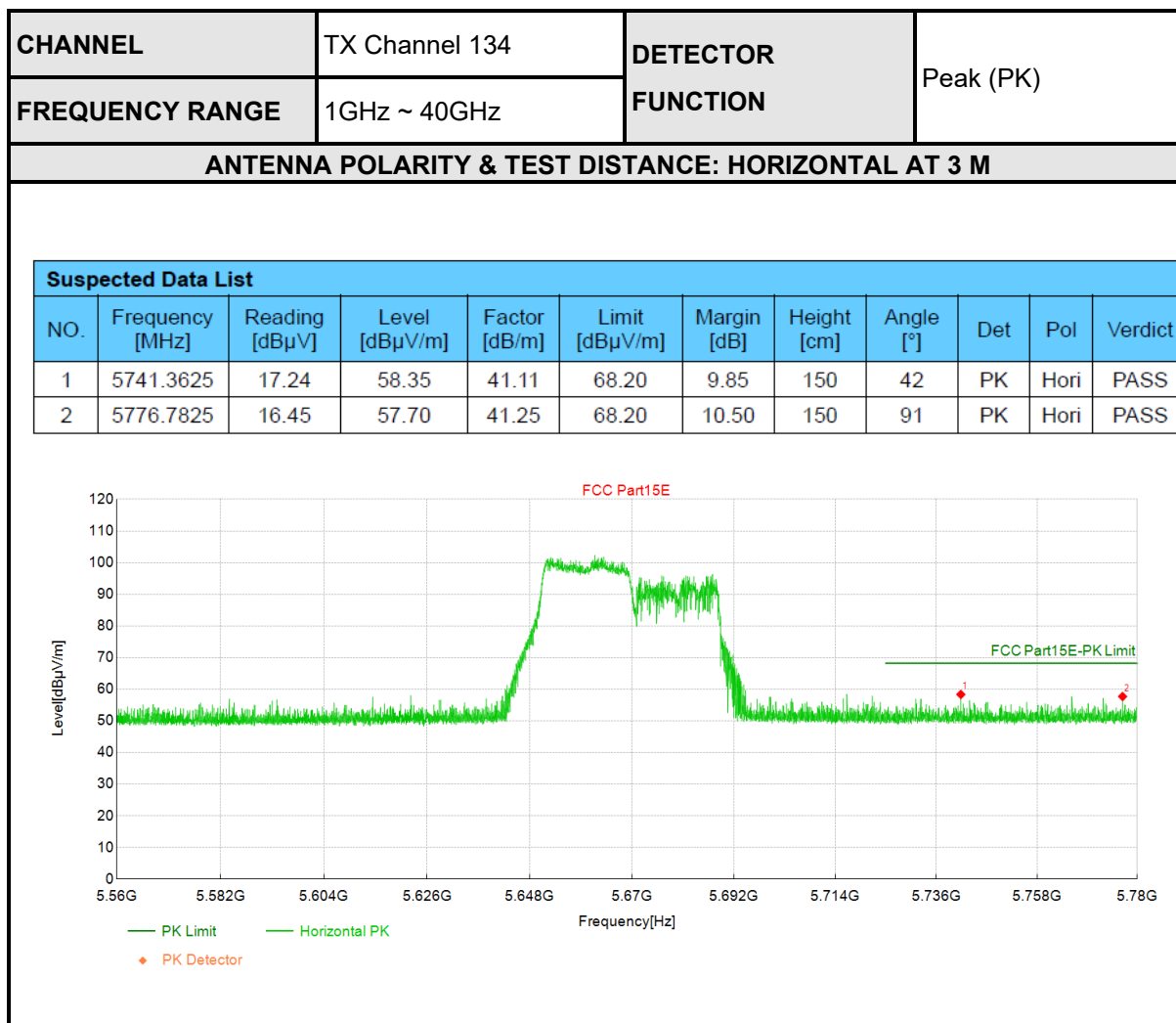
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	5368.4375	-2.97	37.65	40.62	54.00	16.35	150	40	AV	Hori	PASS
2	5436.5000	-2.66	37.97	40.63	54.00	16.03	150	90	AV	Hori	PASS



REMARKS:

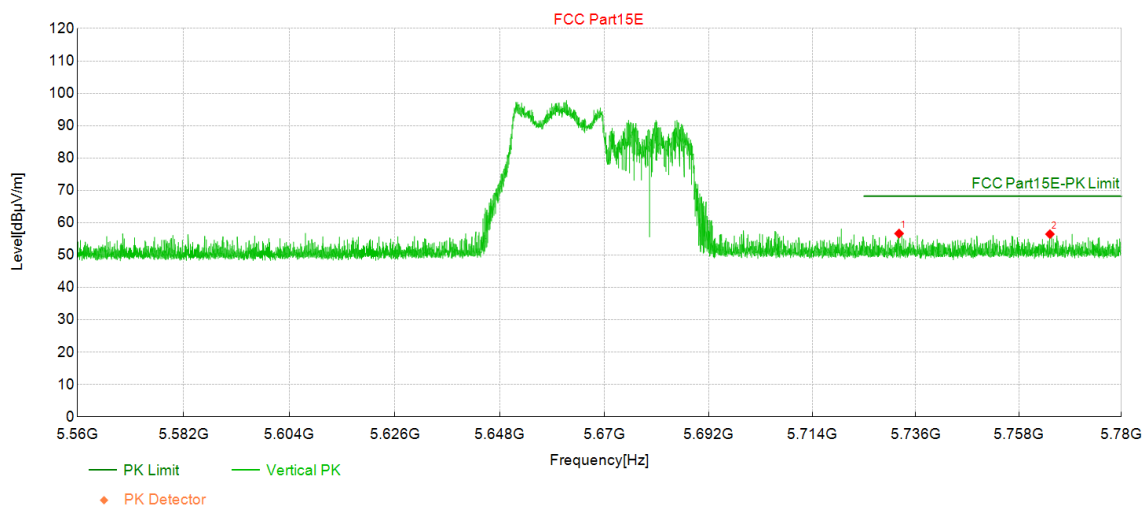
- 1 Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
- 2 Margin value = Limit value- Emission level.
- 3 5500MHz: Fundamental frequency.



ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

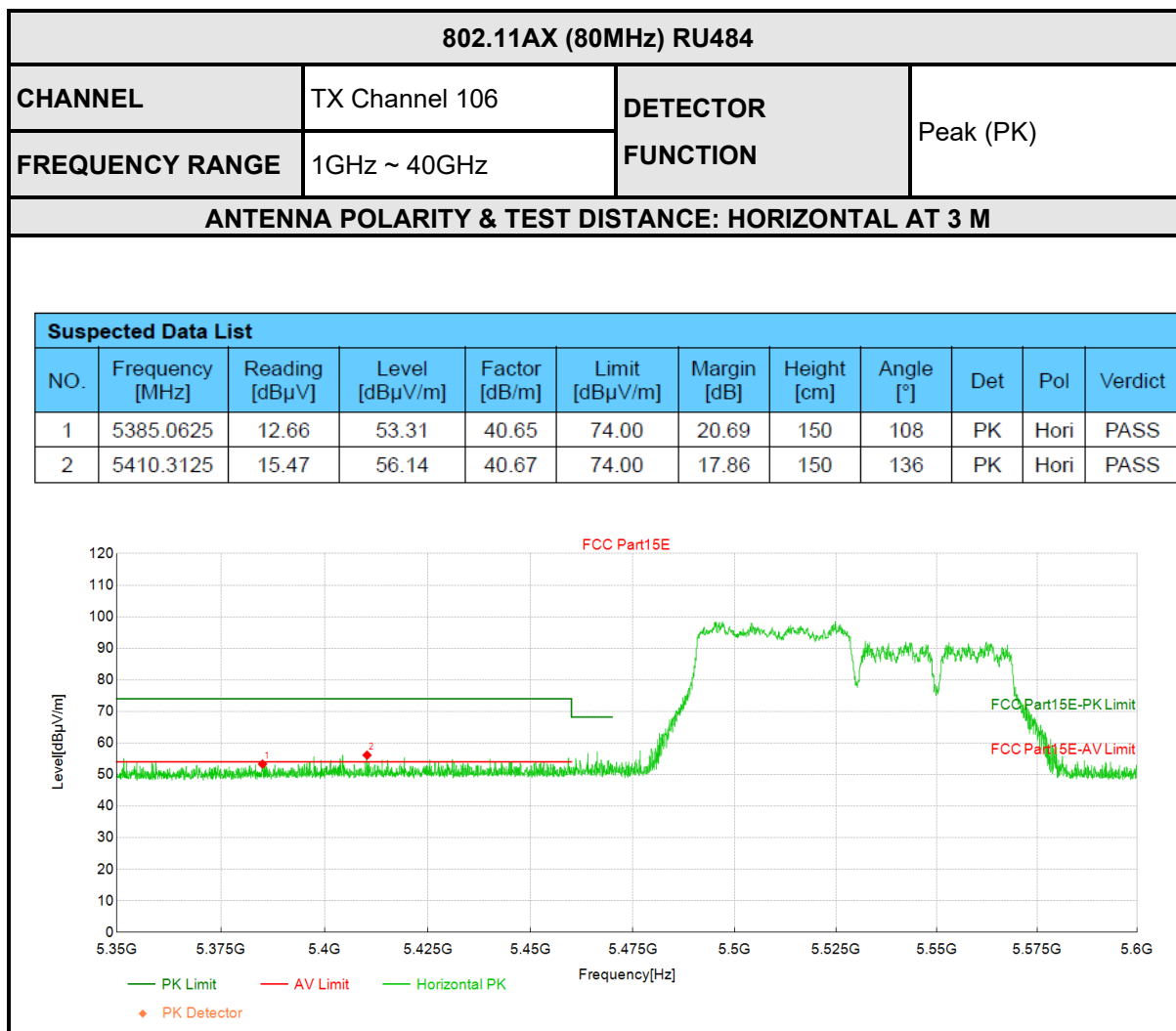
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	5732.4525	15.58	56.66	41.08	68.20	11.54	150	318	PK	Vert	PASS
2	5764.6825	15.28	56.48	41.20	68.20	11.72	150	11	PK	Vert	PASS



REMARKS:

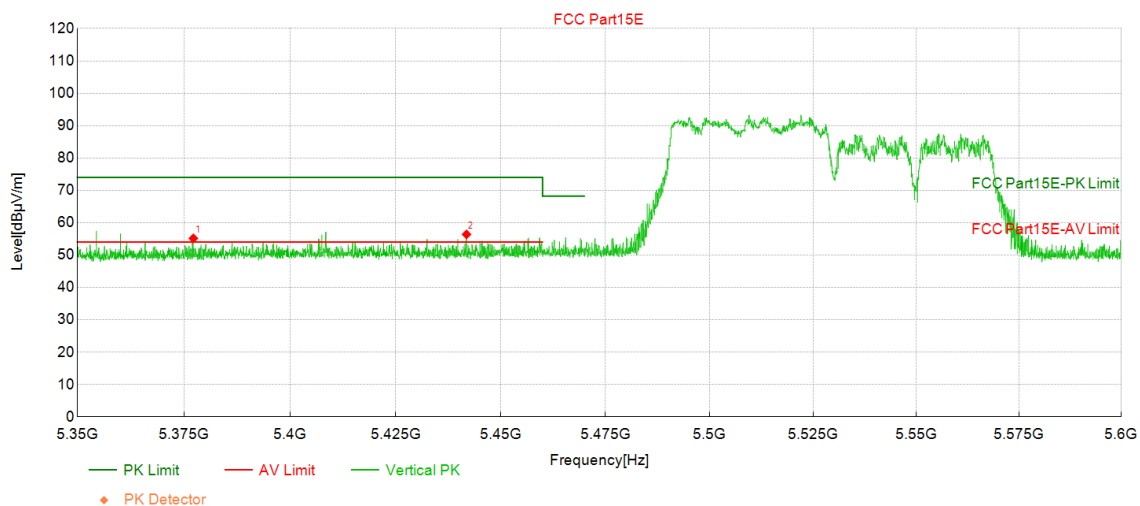
- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
- Margin value = Limit value- Emission level.
- 5670MHz: Fundamental frequency.

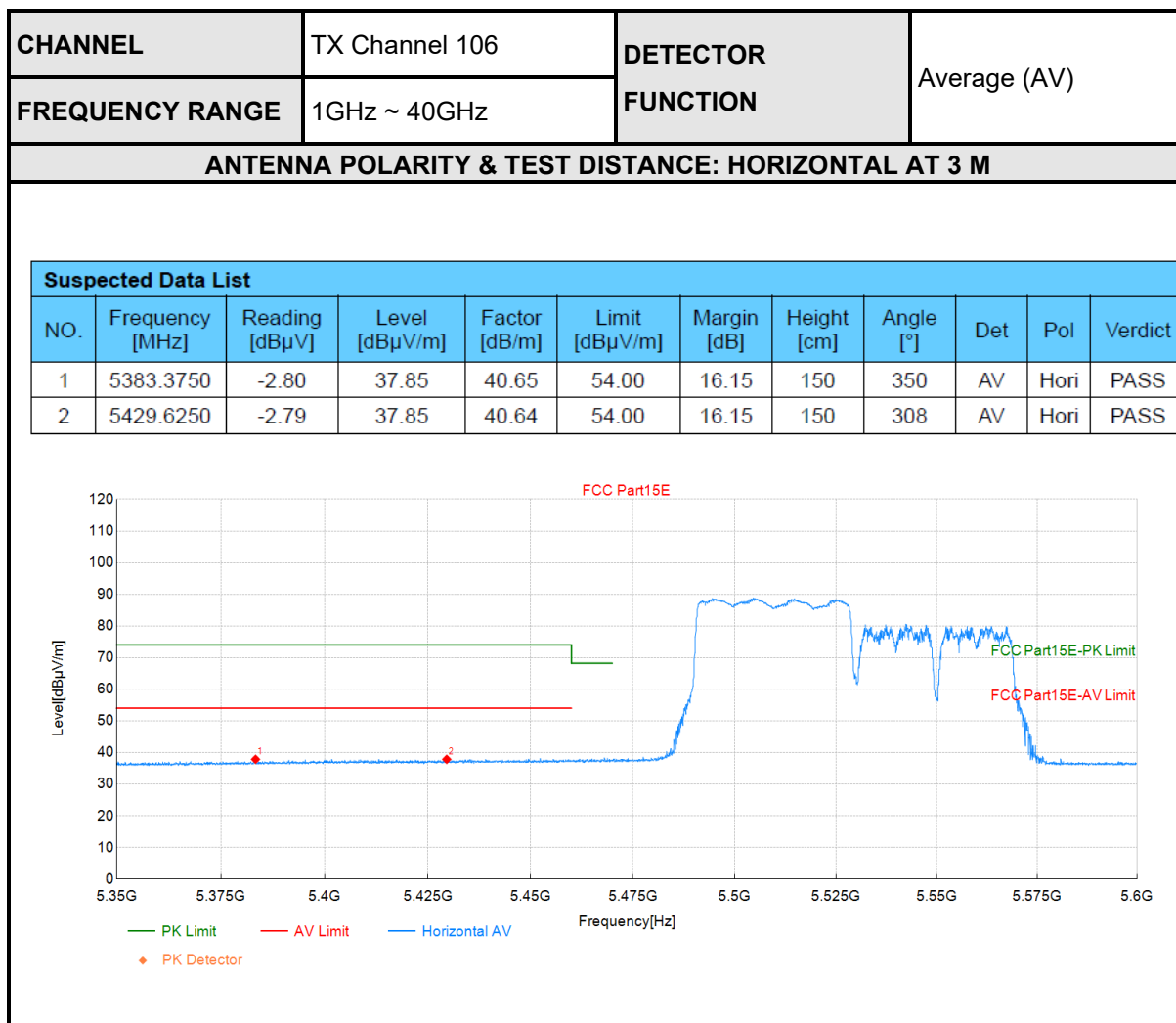


ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	5377.2500	14.53	55.16	40.63	74.00	18.84	150	18	PK	Vert	PASS
2	5441.8750	15.76	56.39	40.63	74.00	17.61	150	58	PK	Vert	PASS

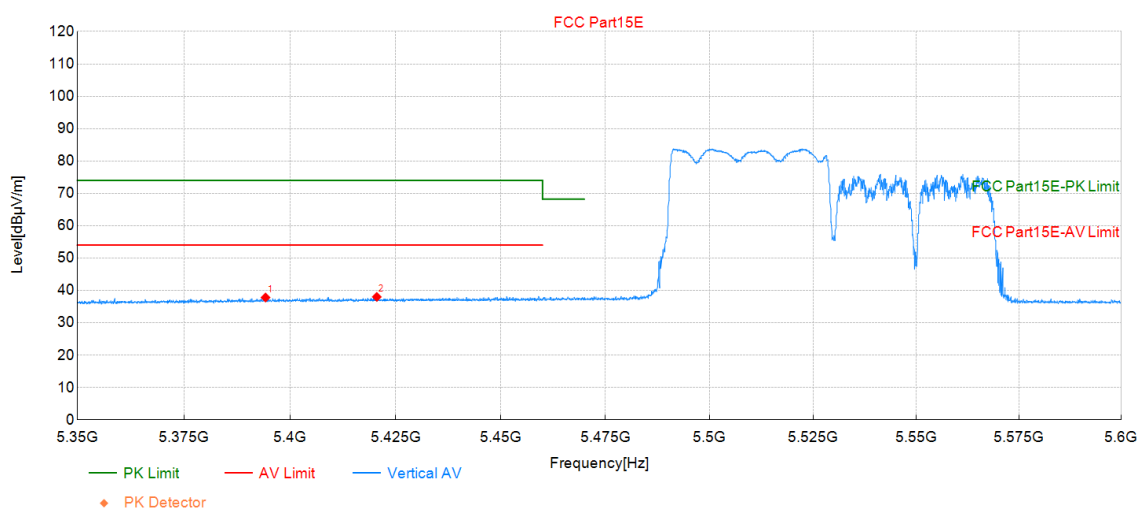




ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

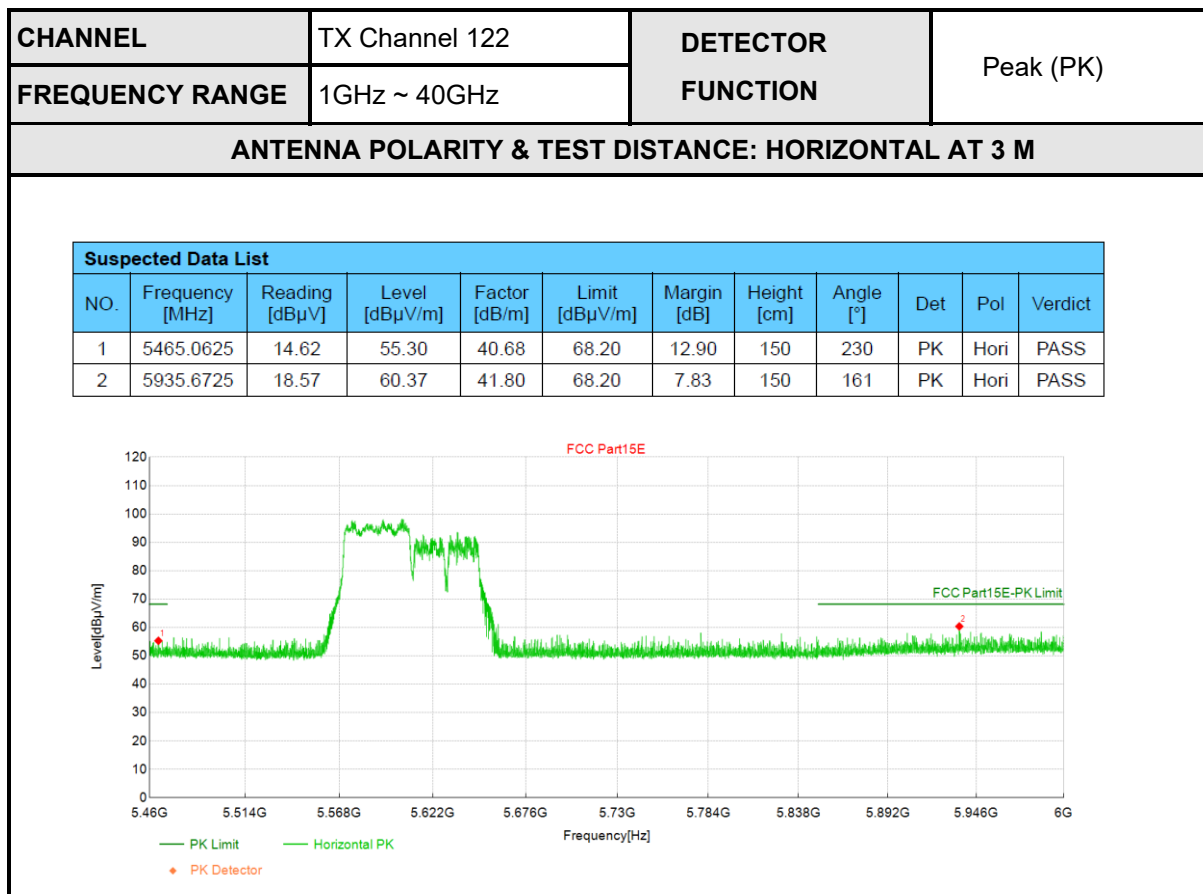
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	5394.2500	-2.87	37.81	40.68	54.00	16.19	150	154	AV	Vert	PASS
2	5420.5625	-2.66	38.00	40.66	54.00	16.00	150	44	AV	Vert	PASS



REMARKS:

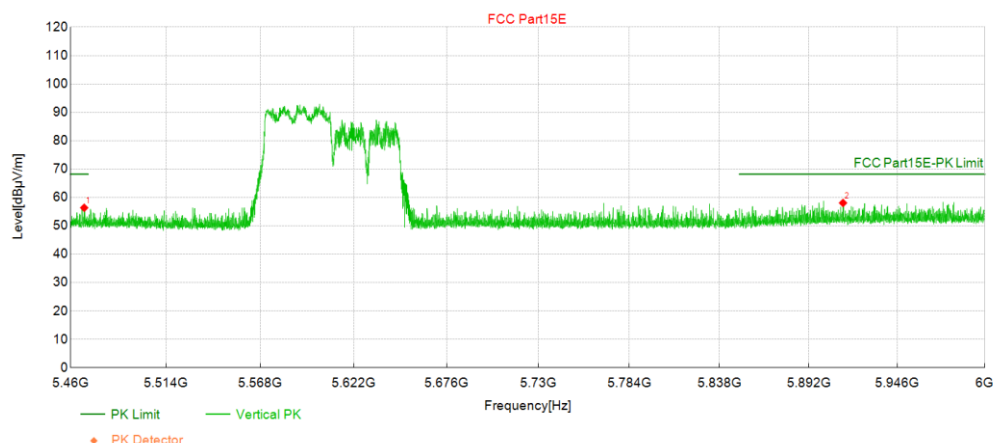
- 1 Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
- 2 Margin value = Limit value- Emission level.
- 3 5530MHz: Fundamental frequency.



ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Suspected Data List

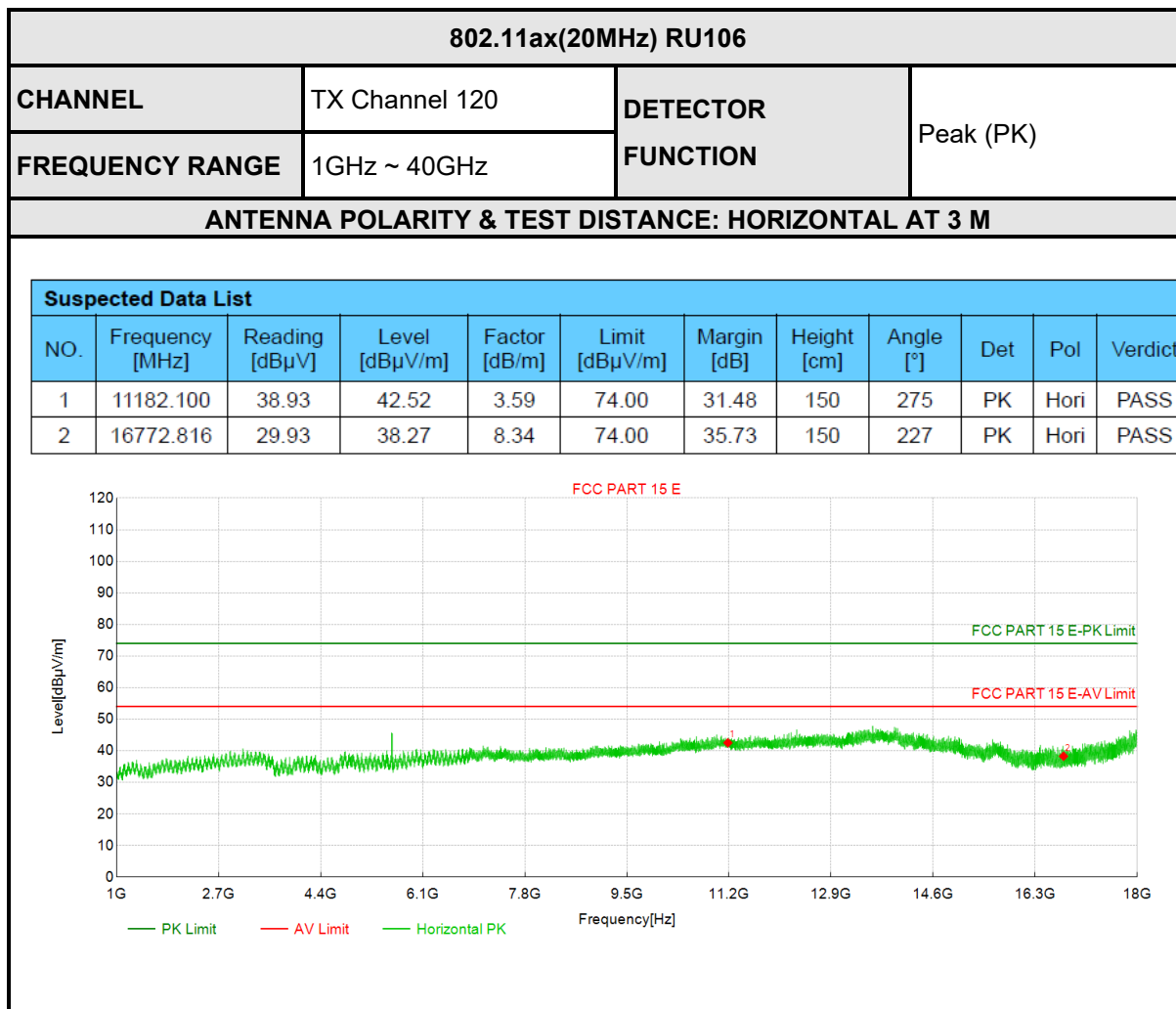
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	5467.7625	15.67	56.36	40.69	68.20	11.84	150	36	PK	Vert	PASS
2	5912.8575	16.25	58.05	41.80	68.20	10.15	150	185	PK	Vert	PASS



REMARKS:

- 1 Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
- 2 Margin value = Limit value- Emission level.
- 3 5610MHz: Fundamental frequency.

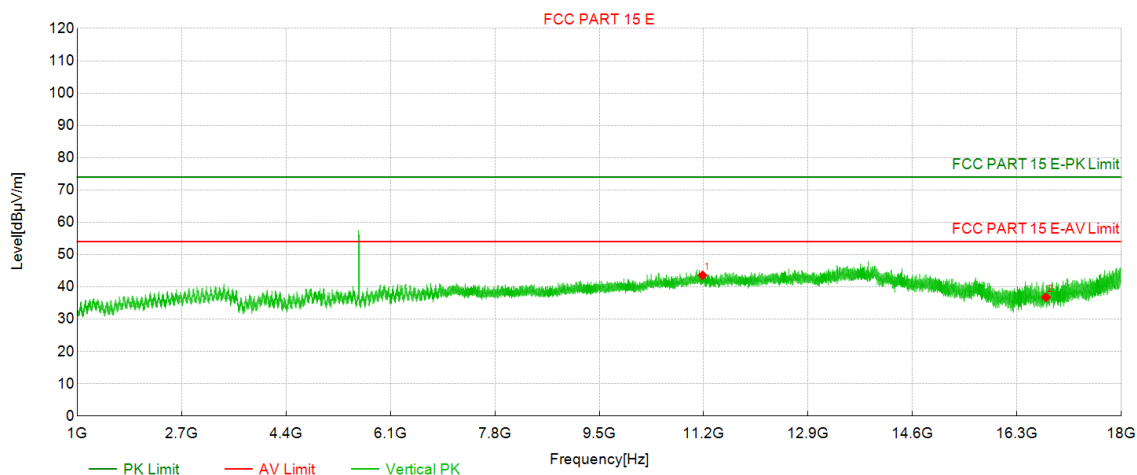
Worst case harmonic:



ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	11182.100	39.99	43.58	3.59	74.00	30.42	150	131	PK	Vert	PASS
2	16772.333	28.43	36.77	8.34	74.00	37.23	150	119	PK	Vert	PASS



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5600MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

3.2 CONDUCTED EMISSION MEASUREMENT

3.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

NOTE:

- 1 The lower limit shall apply at the transition frequencies.
- 2 The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
- 3 All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Pulse limiter	SCHWARZBECK	VTSD 9561F	01579	2025/7/22	2027/7/21
ESR.EMI TEST RECEIVER	Rohde&SCHWARZ	ESR	101405	2025/6/30	2027/6/29
LISN	SCHWARZBECK	NSLK 8127	01216	2025/8/27	2027/8/26
Cable	Tonscend	/	/	2025/7/22	2027/7/21

NOTE:

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

3.2.3 TEST PROCEDURES

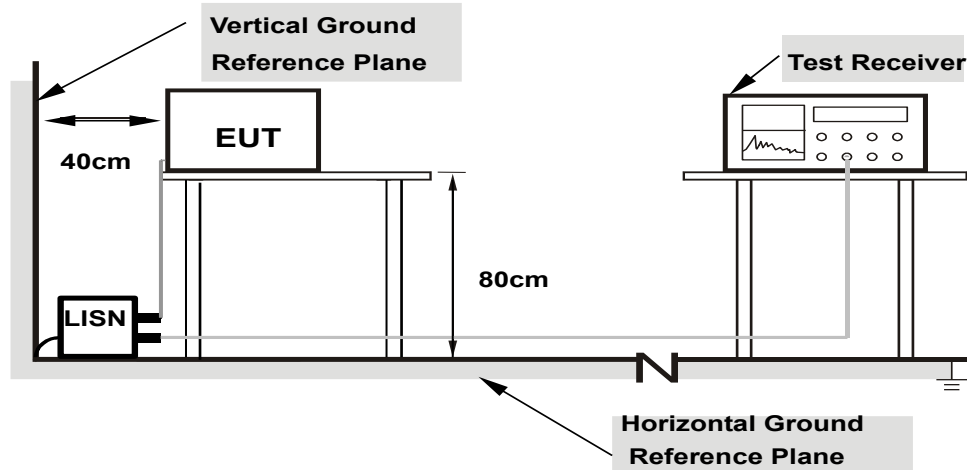
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

3.2.4 DEVIATION FROM TEST STANDARD

No deviation.

3.2.5 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.2.6 EUT OPERATING CONDITIONS

Same as 3.1.7.

3.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA			
FREQUENCY RANGE	150KHz ~ 30MHz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak (QP) / Average (AV), 9 kHz
INPUT POWER	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 51%RH
TESTED BY	Carl Xie		
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually. 2. "-": The Quasi-peak reading value also meets average limit and 3. measurement with the average detector is unnecessary. 4. The emission levels of other frequencies were very low against the limit. 5. Margin value = Limit value - Emission level 6. Correction factor = Insertion loss + Cable loss 7. Emission Level = Correction Factor + Reading Value.			

FREQUENCY RANGE	150KHz ~ 30MHz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak (QP) / Average (AV), 9 kHz
INPUT POWER	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 51%RH
TESTED BY	Carl Xie		
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually. 2. "-": The Quasi-peak reading value also meets average limit and 3. measurement with the average detector is unnecessary. 4. The emission levels of other frequencies were very low against the limit. 5. Margin value = Limit value - Emission level 6. Correction factor = Insertion loss + Cable loss 7. Emission Level = Correction Factor + Reading Value.			

3.3 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

3.3.1 LIMITS OF MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

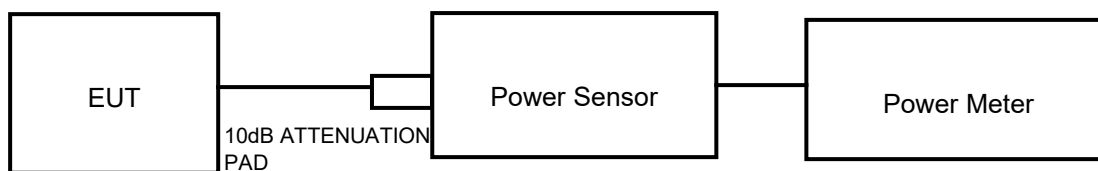
Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
	B	Indoor Access Point	1 Watt (30 dBm)
	√	Client devices	250mW (24 dBm)
U-NII-2A	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	√		1 Watt (30 dBm)

NOTE: Where B is the 26dB emission bandwidth in MHz.

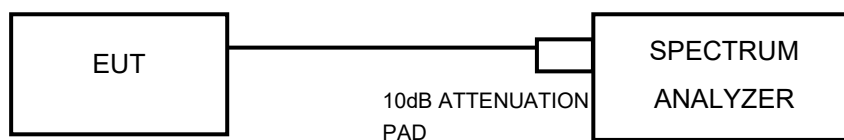
3.3.2 TEST SETUP

FOR POWER OUTPUT MEASUREMENT

802.11a, 802.11n/ac/ax (20MHz), 802.11 n/ac/ax (40MHz) ,802.11 ac/ax (80MHz) TEST CONFIGURATION



FOR 26dB BANDWIDTH



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3.3.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Wireless communication integrated tester	Rohde&Schwarz	CMW500	166205	2025/6/30	2027/6/29
MXA Signal Analyzer	KEYSIGHT	N9020B	MY60112669	2025/8/27	2027/8/26
WiFi 7GHz Band Extender	Tonscend	TS-WF7U2	806WF7U003305251003	2025/1/17	2027/1/16
RF Control Unit	Tonscend	JS0806-2	806JS2X020201251002	2025/1/17	2027/1/16
PSG Analog Signal Generator	Agilent	E8257D	MY51111397	2025/7/01	2027/6/30
MXG Vector Signal Generator	KEYSIGHT	N5182B	MY61250150	2025/1/15	2027/1/14
DC Power Supply	AGILENT	HMP2020	100598	2025/7/01	2027/6/30
10dB attenuator	JFW INDUSTRIES INC	50HF-010-SMA	50HF-010-SMA-1	2025/6/30	2027/6/29
10dB attenuator	JFW INDUSTRIES INC	50HF-010-SMA	50HF-010-SMA-2	2025/6/30	2027/6/29
hygrothermograph	Anymetrers	----	TH101B	2025/7/22	2027/7/21
Temperature Box	zhongkemeiqi	MA22040172	MQ-DTH50F-2	2025/7/01	2027/6/30
power divider	WOKEN	71688	204-003180-01	2025/6/30	2027/6/29

NOTE:

1. The calibration interval of the above test instruments is 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 PROCEDURE

FOR POWER MEASUREMENT

For 802.11a, 802.11n/ac/ax (20MHz), 802.11 n/ac/ax (40MHz) ,802.11 ac/ax (160MHz)

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

FOR 99 PERCENT OCCUPIED BANDWIDTH

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW $\geq 3 \cdot$ RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

FOR 26dB BANDWIDTH

- 1) Set RBW = shall be in the range of 1% to 5% of the emission bandwidth.
- 2) Set the VBW > RBW.
- 3) Detector = Peak.
- 4) Trace mode = max hold.
- 5) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is in the range of 1% to 5%.

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FOR 6dB BANDWIDTH

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.3.5 DEVIATION FROM TEST STANDARD

No deviation.

3.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.



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3.3.7 TEST RESULTS

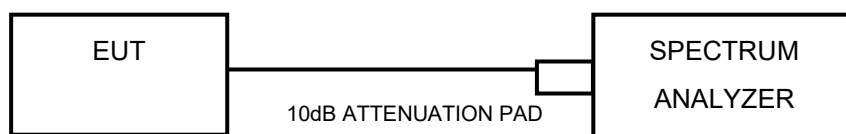
Please Refer to Appendix of this test report.

3.4 MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

3.4.1 LIMITS OF MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	17dBm/ MHz
		Fixed point-to-point Access Point	
		Indoor Access Point	
	√	Client devices	11dBm/ MHz
U-NII-2A	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

3.4.2 TEST SETUP



3.4.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

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3.4.4 TEST PROCEDURES

Using method SA-2(Band1/2/3)

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS
- 3) Set Channel power measure = 1MHz
- 4) Sweep time = auto, trigger set to "free run".
- 5) Trace average at least 100 traces in power averaging mode.
- 6) Add $10 \log (1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission).
- 7) Record the max value

Using method SA-2 (Band4)

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 300 kHz, Set VBW $\geq$ 1 MHz, Detector = RMS
- 3) Set Channel power measure = 1MHz
- 4) Sweep time = auto, trigger set to "free run".
- 5) Trace average at least 100 traces in power averaging mode.
- 6) Add $10 \log(500\text{kHz}/\text{RBW})$ to the test result. $10 \log(500\text{kHz}/300\text{KHZ}) = 2.22\text{dBm}$
- 7) Add $10 \log (1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission).
- 8) Record the max value

3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 EUT OPERATING CONDITIONS

Same as 3.1.7.



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3.4.7 TEST RESULTS

Please Refer to Appendix of this test report.

3.5 AUTOMATICALLY DISCONTINUE TRANSMISSION

3.5.1 LIMIT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information, or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

3.5.2 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.5.3 TEST RESULT

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

3.6 ANTENNA REQUIREMENTS

3.6.1 STANDARD APPLICABLE

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmits power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.6.2 ANTENNA CONNECTED CONSTRUCTION

An embedded-in antenna design is used.

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3.6.3 ANTENNA GAIN

According to FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = GANT + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(N_{ANT} / N_{SS})$ dB;

For power measurements on IEEE 802.11 devices, Array Gain = 0 dB for $N_{ANT} \leq 4$;

The EUT supports Cyclic Delay Diversity (CDD) mode,

For power measurements, the directional GANT is set equal to the antenna having the highest gain as following formulas.

Directional Gain = Max.Gain + Array Gain.

For PSD measurements, the directional GANT calculation is following F)2)f)ii of KDB 662911 D01 v02r01.

The directional gain is calculated as following table.

	Band	Ant 5 (dBi)	Ant 6 (dBi)	DG For Power (dBi)	DG For PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
5GHz	U-NII 1	1.9	0.7	1.9	4.33	0	0
	U-NII 2A	1.2	11	12.	4.11	0	0
	U-NII 2C	1.2	1.2	1.2	4.21	0	0

NOTE: DG = directional gain, Power Limit Reduction = DG For Power Gain -6dBi < 0

PSD Limit Reduction = DG For PSD - 6dBi < 0. Therefore, it is not necessary to reduce maximum output power and PSD limit.



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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 modifications were made to the EUT by the lab during the test.



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6 Appendix

WIFI

EMISSION BANDWIDTH

TEST RESULT

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A-CDD	Ant3	5180	19.680	5170.160	5189.840	---	---
11A-CDD	Ant5	5180	20.400	5169.800	5190.200	---	---
11A-CDD	Ant3	5200	19.240	5190.560	5209.800	---	---
11A-CDD	Ant5	5200	19.240	5190.400	5209.640	---	---
11A-CDD	Ant3	5240	19.800	5230.040	5249.840	---	---
11A-CDD	Ant5	5240	19.720	5229.960	5249.680	---	---
11A-CDD	Ant3	5260	20.120	5250.120	5270.240	---	---
11A-CDD	Ant5	5260	20.520	5249.760	5270.280	---	---
11A-CDD	Ant3	5280	19.320	5270.360	5289.680	---	---
11A-CDD	Ant5	5280	19.360	5270.280	5289.640	---	---
11A-CDD	Ant3	5320	19.600	5310.160	5329.760	---	---
11A-CDD	Ant5	5320	19.560	5310.080	5329.640	---	---
11A-CDD	Ant3	5500	18.960	5490.320	5509.280	---	---
11A-CDD	Ant5	5500	20.000	5489.720	5509.720	---	---
11A-CDD	Ant3	5580	19.120	5570.320	5589.440	---	---
11A-CDD	Ant5	5580	20.120	5570.080	5590.200	---	---
11A-CDD	Ant3	5700	19.080	5690.520	5709.600	---	---
11A-CDD	Ant5	5700	19.440	5690.160	5709.600	---	---
11A-CDD	Ant3	5720	19.800	5709.760	5729.560	---	---
11A-CDD	Ant5	5720	19.200	5710.400	5729.600	---	---
11A-CDD	Ant3	5720_UNII-2C	15.24	5709.760	5725	---	---
11A-CDD	Ant5	5720_UNII-2C	14.6	5710.400	5725	---	---
11N20MIMO	Ant3	5180	20.560	5169.880	5190.440	---	---
11N20MIMO	Ant5	5180	21.560	5169.160	5190.720	---	---
11N20MIMO	Ant3	5200	19.960	5190.080	5210.040	---	---
11N20MIMO	Ant5	5200	20.520	5189.640	5210.160	---	---
11N20MIMO	Ant3	5240	20.320	5229.600	5249.920	---	---
11N20MIMO	Ant5	5240	20.880	5229.480	5250.360	---	---
11N20MIMO	Ant3	5260	20.000	5249.960	5269.960	---	---

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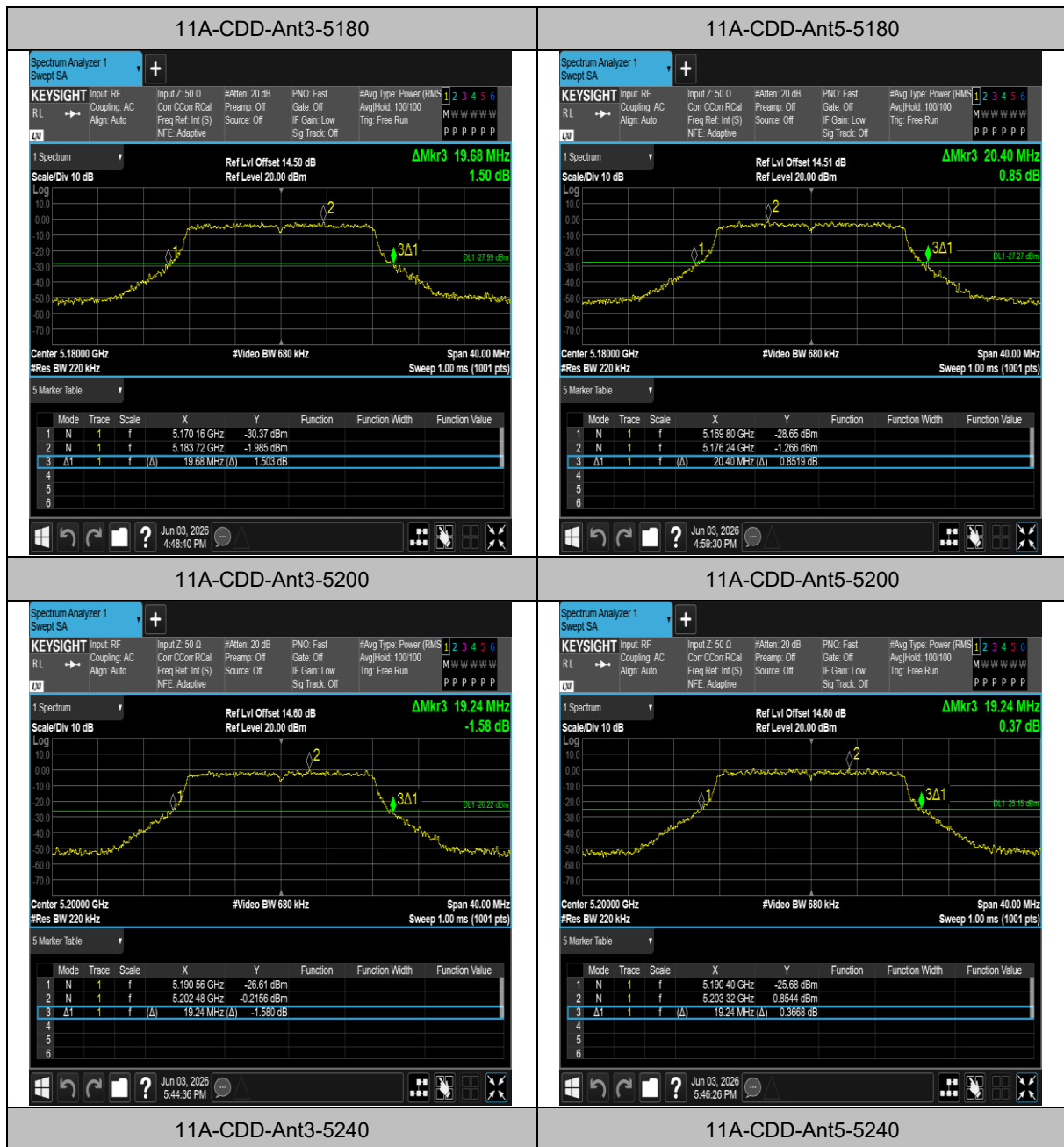
11N20MIMO	Ant5	5260	20.520	5249.920	5270.440	---	---
11N20MIMO	Ant3	5280	20.320	5269.720	5290.040	---	---
11N20MIMO	Ant5	5280	20.840	5269.800	5290.640	---	---
11N20MIMO	Ant3	5320	20.280	5309.680	5329.960	---	---
11N20MIMO	Ant5	5320	20.800	5309.640	5330.440	---	---
11N20MIMO	Ant3	5500	20.520	5489.800	5510.320	---	---
11N20MIMO	Ant5	5500	20.680	5489.520	5510.200	---	---
11N20MIMO	Ant3	5580	20.120	5570.000	5590.120	---	---
11N20MIMO	Ant5	5580	21.120	5569.560	5590.680	---	---
11N20MIMO	Ant3	5700	20.000	5689.840	5709.840	---	---
11N20MIMO	Ant5	5700	20.200	5689.880	5710.080	---	---
11N20MIMO	Ant3	5720	20.600	5709.760	5730.360	---	---
11N20MIMO	Ant5	5720	20.080	5709.880	5729.960	---	---
11N20MIMO	Ant3	5720_UNII-2C	15.24	5709.760	5725	---	---
11N20MIMO	Ant5	5720_UNII-2C	15.12	5709.880	5725	---	---
11N40MIMO	Ant3	5190	39.920	5170.160	5210.080	---	---
11N40MIMO	Ant5	5190	39.360	5170.400	5209.760	---	---
11N40MIMO	Ant3	5230	40.160	5209.760	5249.920	---	---
11N40MIMO	Ant5	5230	39.440	5210.160	5249.600	---	---
11N40MIMO	Ant3	5270	39.600	5250.240	5289.840	---	---
11N40MIMO	Ant5	5270	39.760	5250.000	5289.760	---	---
11N40MIMO	Ant3	5310	39.680	5290.160	5329.840	---	---
11N40MIMO	Ant5	5310	39.840	5289.920	5329.760	---	---
11N40MIMO	Ant3	5510	39.680	5490.000	5529.680	---	---
11N40MIMO	Ant5	5510	39.200	5490.560	5529.760	---	---
11N40MIMO	Ant3	5550	39.840	5530.000	5569.840	---	---
11N40MIMO	Ant5	5550	40.080	5530.000	5570.080	---	---
11N40MIMO	Ant3	5670	39.520	5650.080	5689.600	---	---
11N40MIMO	Ant5	5670	39.760	5650.400	5690.160	---	---
11N40MIMO	Ant3	5710	39.680	5689.920	5729.600	---	---
11N40MIMO	Ant5	5710	39.520	5690.240	5729.760	---	---
11N40MIMO	Ant3	5710_UNII-2C	35.08	5689.920	5725	---	---
11N40MIMO	Ant5	5710_UNII-2C	34.76	5690.240	5725	---	---
11AC80MIMO	Ant3	5210	80.640	5169.840	5250.480	---	---
11AC80MIMO	Ant5	5210	80.960	5169.360	5250.320	---	---
11AC80MIMO	Ant3	5290	81.440	5249.200	5330.640	---	---

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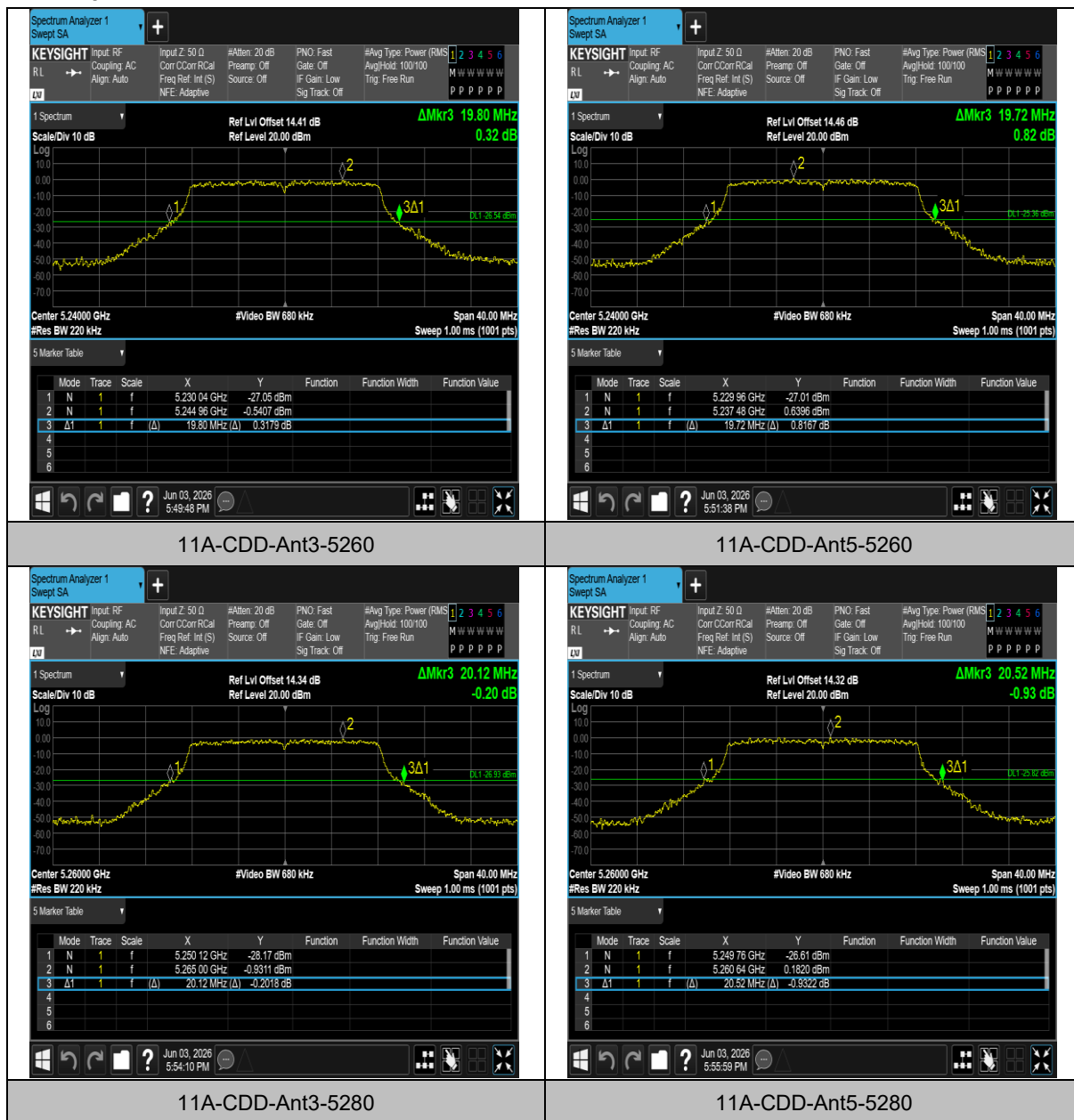
11AC80MIMO	Ant5	5290	80.960	5249.360	5330.320	---	---
11AC80MIMO	Ant5	5530	81.600	5489.360	5570.960	---	---
11AC80MIMO	Ant3	5530	81.920	5489.360	5571.280	---	---
11AC80MIMO	Ant3	5690	81.280	5649.360	5730.640	---	---
11AC80MIMO	Ant5	5690	81.280	5649.040	5730.320	---	---
11AC80MIMO	Ant3	5690_UNII-2C	75.64	5649.360	5725	---	---
11AC80MIMO	Ant5	5690_UNII-2C	75.96	5649.040	5725	---	---
11AX20MIMO	Ant3	5180	21.200	5169.560	5190.760	---	---
11AX20MIMO	Ant5	5180	20.880	5169.640	5190.520	---	---
11AX20MIMO	Ant3	5200	20.720	5189.440	5210.160	---	---
11AX20MIMO	Ant5	5200	21.120	5189.480	5210.600	---	---
11AX20MIMO	Ant3	5240	21.080	5229.400	5250.480	---	---
11AX20MIMO	Ant5	5240	20.920	5229.480	5250.400	---	---
11AX20MIMO	Ant3	5260	20.800	5249.600	5270.400	---	---
11AX20MIMO	Ant5	5260	20.840	5249.520	5270.360	---	---
11AX20MIMO	Ant3	5280	20.560	5269.680	5290.240	---	---
11AX20MIMO	Ant5	5280	21.200	5269.200	5290.400	---	---
11AX20MIMO	Ant3	5320	20.880	5309.360	5330.240	---	---
11AX20MIMO	Ant5	5320	21.520	5309.040	5330.560	---	---
11AX20MIMO	Ant3	5500	20.960	5489.400	5510.360	---	---
11AX20MIMO	Ant5	5500	20.800	5489.440	5510.240	---	---
11AX20MIMO	Ant3	5580	20.720	5569.680	5590.400	---	---
11AX20MIMO	Ant5	5580	20.960	5569.320	5590.280	---	---
11AX20MIMO	Ant3	5700	20.680	5689.680	5710.360	---	---
11AX20MIMO	Ant5	5700	20.720	5689.600	5710.320	---	---
11AX20MIMO	Ant3	5720	20.800	5709.560	5730.360	---	---
11AX20MIMO	Ant5	5720	20.560	5709.560	5730.120	---	---
11AX20MIMO	Ant3	5720_UNII-2C	15.44	5709.560	5725	---	---
11AX20MIMO	Ant5	5720_UNII-2C	15.44	5709.560	5725	---	---
11AX40MIMO	Ant3	5190	40.160	5169.760	5209.920	---	---
11AX40MIMO	Ant5	5190	40.480	5169.680	5210.160	---	---
11AX40MIMO	Ant3	5230	40.560	5209.520	5250.080	---	---
11AX40MIMO	Ant5	5230	40.240	5209.760	5250.000	---	---
11AX40MIMO	Ant3	5270	40.240	5250.000	5290.240	---	---
11AX40MIMO	Ant5	5270	40.160	5249.760	5289.920	---	---
11AX40MIMO	Ant3	5310	40.320	5289.760	5330.080	---	---

Test Report No.: RF260626B008

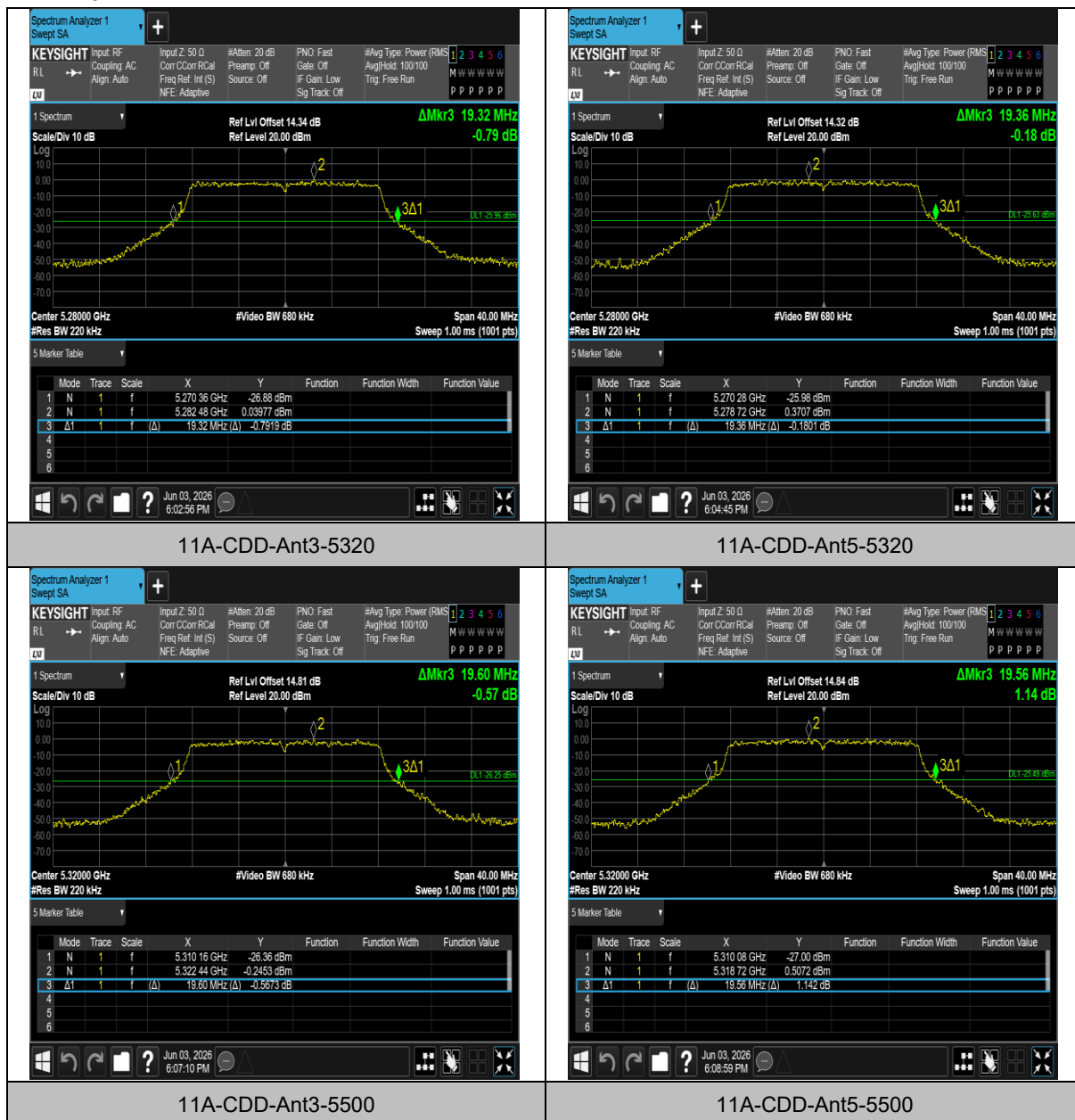
11AX40MIMO	Ant5	5310	40.000	5289.920	5329.920	---	---
11AX40MIMO	Ant3	5510	40.400	5489.680	5530.080	---	---
11AX40MIMO	Ant5	5510	40.720	5489.680	5530.400	---	---
11AX40MIMO	Ant3	5550	40.560	5529.760	5570.320	---	---
11AX40MIMO	Ant5	5550	40.560	5529.600	5570.160	---	---
11AX40MIMO	Ant3	5670	39.920	5650.080	5690.000	---	---
11AX40MIMO	Ant5	5670	40.240	5649.920	5690.160	---	---
11AX40MIMO	Ant3	5710	40.400	5689.760	5730.160	---	---
11AX40MIMO	Ant5	5710	40.320	5689.760	5730.080	---	---
11AX40MIMO	Ant3	5710_UNII-2C	35.24	5689.760	5725	---	---
11AX40MIMO	Ant5	5710_UNII-2C	35.24	5689.760	5725	---	---
11AX80MIMO	Ant3	5210	81.760	5169.200	5250.960	---	---
11AX80MIMO	Ant5	5210	81.600	5169.040	5250.640	---	---
11AX80MIMO	Ant3	5290	81.760	5248.720	5330.480	---	---
11AX80MIMO	Ant5	5290	81.760	5248.880	5330.640	---	---
11AX80MIMO	Ant3	5530	81.760	5489.520	5571.280	---	---
11AX80MIMO	Ant5	5530	81.600	5489.200	5570.800	---	---
11AX80MIMO	Ant3	5690	81.120	5649.200	5730.320	---	---
11AX80MIMO	Ant5	5690	81.760	5649.200	5730.960	---	---
11AX80MIMO	Ant3	5690_UNII-2C	75.8	5649.200	5725	---	---
11AX80MIMO	Ant5	5690_UNII-2C	75.8	5649.200	5725	---	---



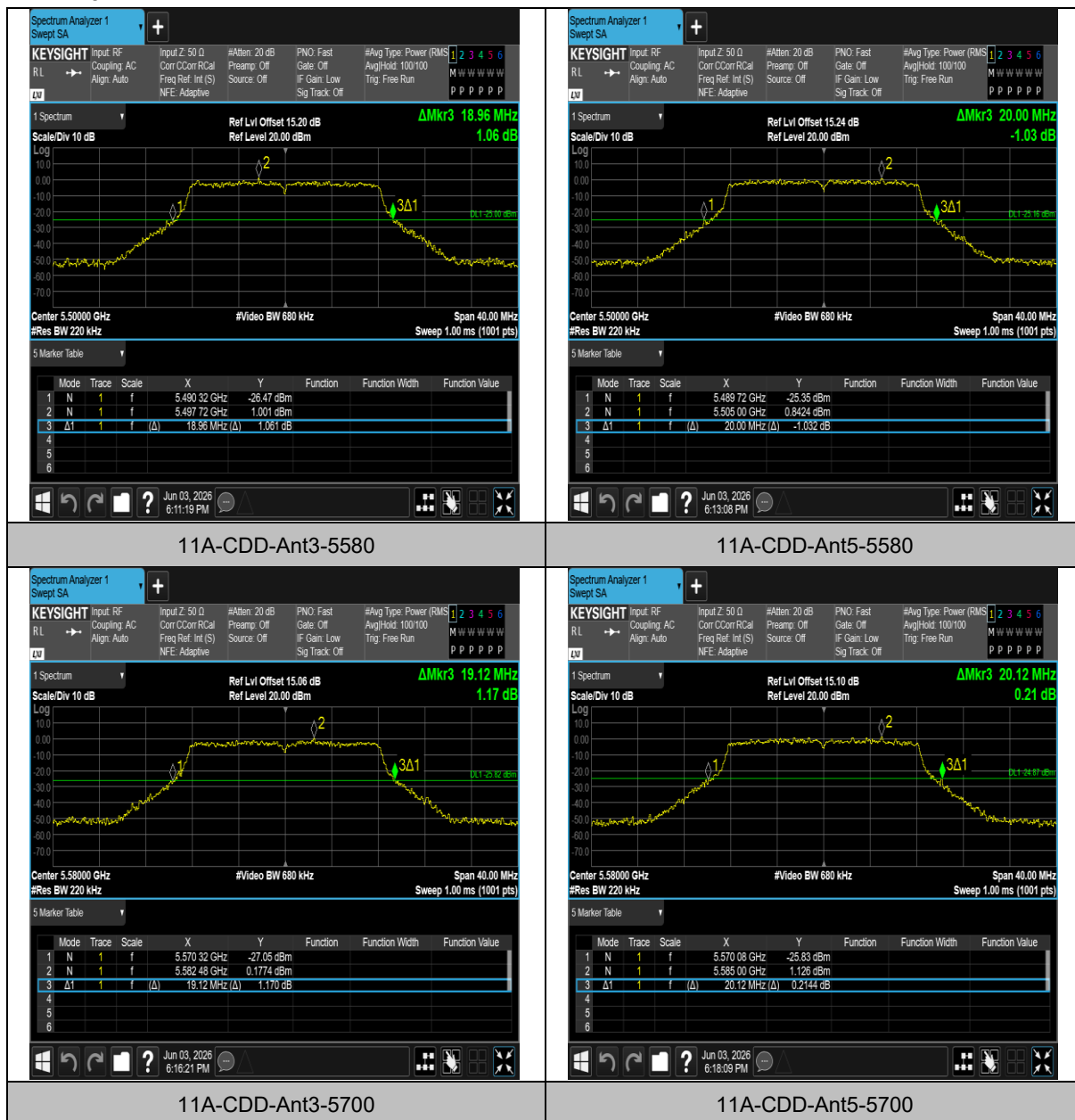
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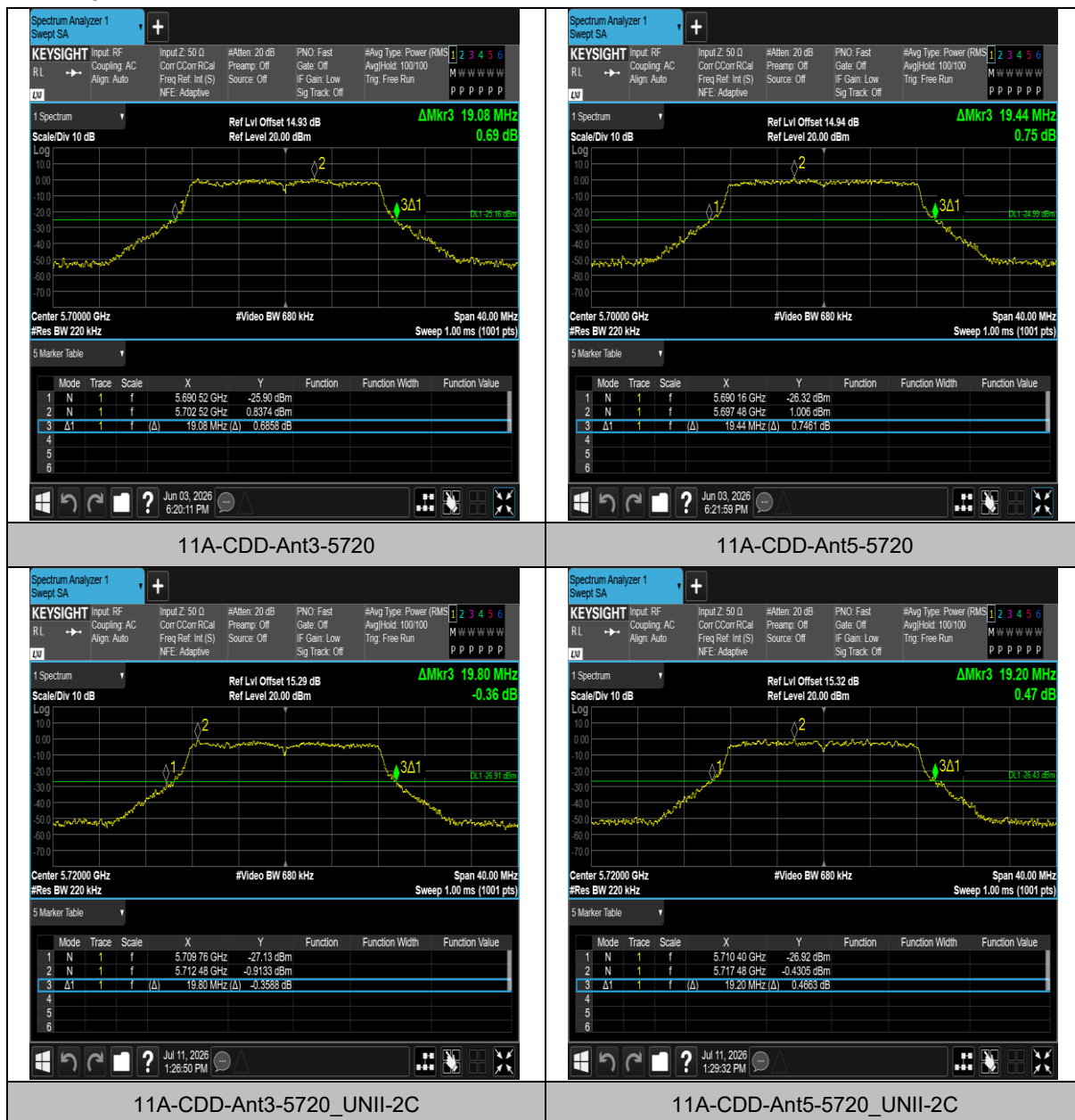
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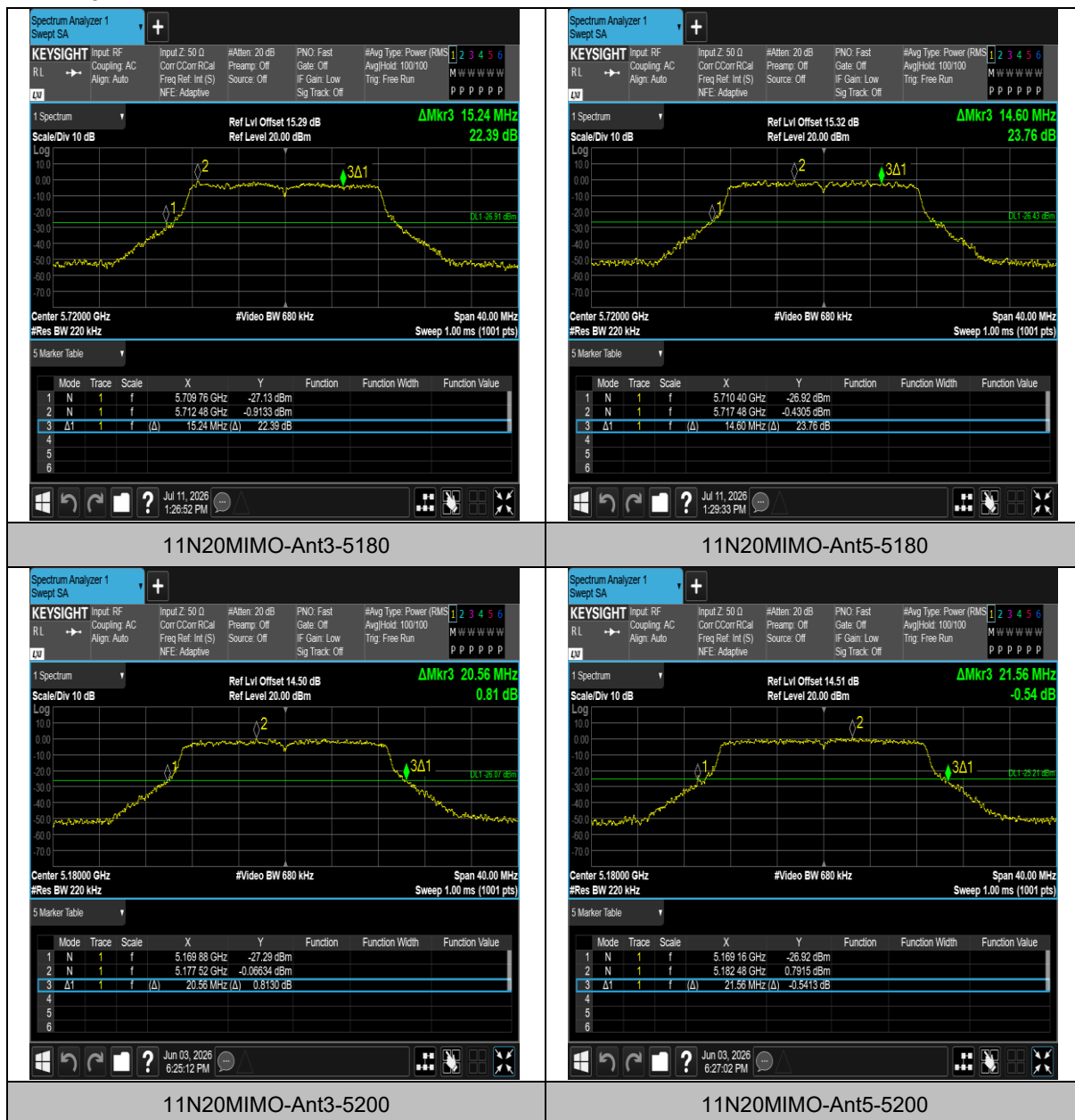
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