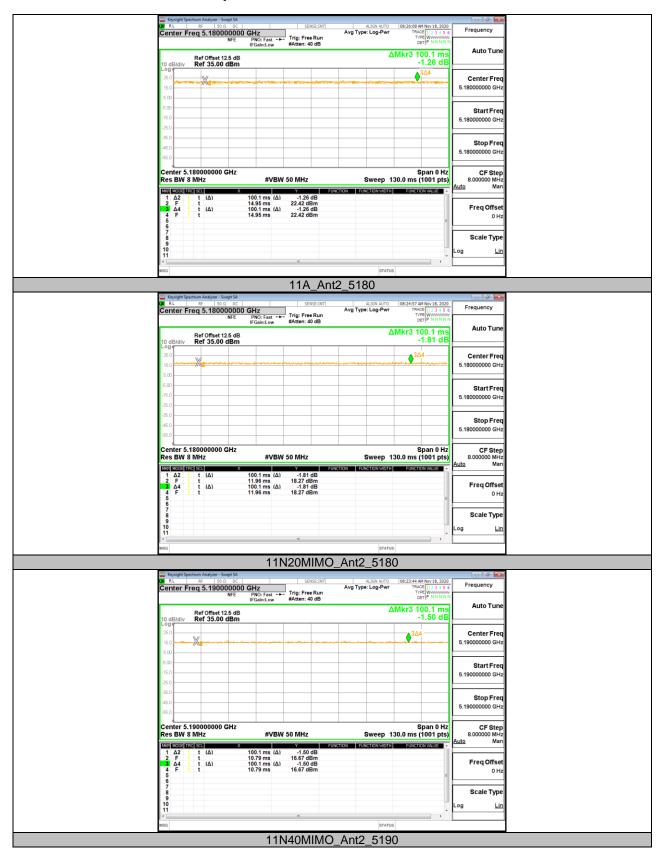
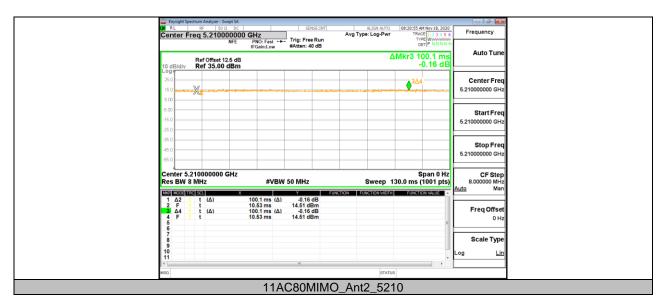


Test Graphs









Appendix E FREQUENCY STABILITY

Test Result

	Frequency Error vs. Voltage								
	802.11a:5200MHz								
		0 Minute		2 Minute		5 Mi	nute	10 Minute	
Temp.	Volt.	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
T _N	V_L	5200.0041	0.79	5199.9788	-4.07	5200.0179	3.44	5200.0008	0.15
T _N	V_N	5200.0059	1.14	5200.0232	4.45	5199.9856	-2.78	5199.9896	-2.00
T _N	V _H	5200.0057	1.10	5199.9907	-1.79	5199.9976	-0.46	5200.0012	0.23
	Frequency Error vs. Temperature								
				802.1	1a: 5200 MI	-lz			
_		0 Mir	nute	2 Mir	nute	5 Minute		10 Minute	
Temp.	Volt.	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
40	V_N	5200.0176	3.39	5200.0009	0.17	5200.0186	3.58	5200.0203	3.91
30	V _N	5200.0202	3.88	5199.9979	-0.40	5199.9903	-1.86	5199.9882	-2.28
20	V _N	5200.0073	1.41	5200.0242	4.65	5199.9788	-4.07	5199.9775	-4.33
10	V _N	5200.0054	1.04	5199.9789	-4.07	5199.9922	-1.50	5200.0176	3.39
0	V _N	5199.9971	-0.56	5199.9841	-3.06	5200.0002	0.04	5200.0108	2.08

	Frequency Error vs. Voltage								
	802.11a: 5825 MHz								
		0 Mi	nute	2 Minute		5 Mi	nute	10 Minute	
Temp.	Volt.	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
T _N	VL	5824.9793	-3.55	5825.0228	3.92	5824.9920	-1.38	5824.9841	-2.72
T _N	V _N	5825.0151	2.59	5825.0239	4.11	5824.9862	-2.37	5824.9791	-3.58
T _N	Vн	5824.9766	-4.01	5825.0048	0.83	5824.9787	-3.66	5825.0234	4.02
				Frequency E	Error vs. Tem	perature			
				802.	11a:5825MH	z			
		0 Mir	nute	2 Mir	nute	5 Minute		10 Minute	
Temp.	Volt.	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
40	VN	5825.0093	1.60	5824.9969	-0.53	5825.0100	1.71	5825.0001	0.01
30	V _N	5825.0184	3.16	5824.9835	-2.84	5824.9888	-1.93	5824.9872	-2.20
20	V _N	5825.0055	0.94	5825.0202	3.47	5824.9885	-1.98	5825.0210	3.60
10	V _N	5825.0127	2.18	5824.9797	-3.49	5825.0181	3.11	5824.9958	-0.72
0	V _N	5824.9984	-0.28	5825.0027	0.46	5825.0077	1.33	5824.9883	-2.01

Note: All the modes have been tested, only the worst data was recorded in the report.



Appendix F DYNAMIC FREQUENCY SELECTION

Summary

Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
DFS In-Service Monitoring	5530.000	18.0	80.000000	PASS

DFS In-Service Monitoring (5530 MHz; 22.000 dBm; 80 MHz)

Test according to FCC title 47 part 15 §15.407(h), KDB 905462 D02 U-NII DFS Compliance Procedures New Rules v02

Measurement Summary

DUT Frequency (MHz)	Radar Type No.	Type of Measurement value	Overall Result
5530.000000	0	First of all Transmitt Test	-
5530.000000	0	Channel Move Time	PASS
5530.000000	0	Channel Closing Transmission Time	PASS
5530.000000	0	Non-occupancy period	PASS

(continuation of the "Measurement Summary" table from column 4 ...)

DUT Frequency (MHz)	Overall Comment
5530.000000	not performed / not finished
5530.000000	
5530.000000	
5530.000000	

Channel Move Time Detailed Results

DUT Frequency (MHz)	Radar Type No.	CMT Tx Time (s)	CMT Limit (s)	CMT Result
5530.000000	0	0.487	10.000	PASS

(continuation of the "Channel Move Time Detailed Results" table from column 5 ...)

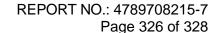
DUT Frequency (MHz)	CMT Comment	
5530.000000	Tx Time value is last trailing edge found within sweep. See Note 1.	

Channel Closing Transmission Time Detailed Results

DUT Frequency (MHz)	Radar Type No.	CCTT Type of Value	CCTT No. of Pulses found	CCTT Tx Time (ms)
5530.000000	0	first 200 ms	3	1.028
5530.000000	0	remaining 10.0 second(s) period	3	1.464

(continuation of the "Channel Closing Transmission Time Detailed Results" table from column 5 ...)

DUT Frequency (MHz)	CCTT Tx Time Limit (ms)	CCTT Result	CCTT Comment
5530.000000	200.000	PASS	See Note 1.
5530.000000	60.000	PASS	See Note 1.





Non-occupancy period Detailed Results

	<u> </u>				
DUT Frequency	Radar Type	NOP No. of Pulses	NOP No. of	NOP Tx	NOP Tx
(MHz)	No.	found	Pulses Limit	Time	Time Limit
				(s)	(s)
5530.000000	0	0	0	0.000	0.000

(continuation of the "Non-occupancy period Detailed Results" table from column 6 ...)

DUT Frequency (MHz)	NOP Result	NOP Comment
5530.000000	PASS	not performed because of Channel Closing Transmission Time / Channel Move Time Test failed

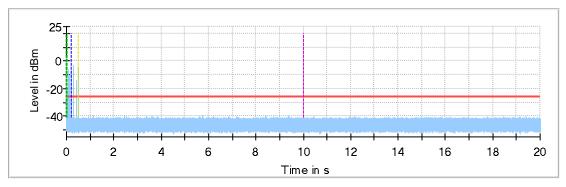
Transmitting Test Detailed Results

DUT Frequency (MHz)	Tx-Test Result	Tx-Test Comment
5530.000000		not performed / not finished

Additional Information

Note	Description
Note 1:	Because of the radar pulse event at the beginning, the investigation of the trace begins with an offset of 28.7 ms conforming to the end of the Radar burst.
Note 2:	Channel move time (CMT) / channel closing transmission time (CCTT) measurement was made with hi resolution video sweep using OSP DAQ channel
Note 3:	Because of the substantially higher sampling rate of the video signal the results for CCTT and CMT are more accurate than in the graphics visible. Reached timing accuracy of the video trace: approx 4 μ s
Note 4:	The Non-Occupancy Period trace starts at the end of the Channel move time trace (20.000 secs.) Labeling of the x-axis (time) is relative to its beginning (0 secs.)

Channel Move Time



Channel Move Time

Threshold

Start of Radar

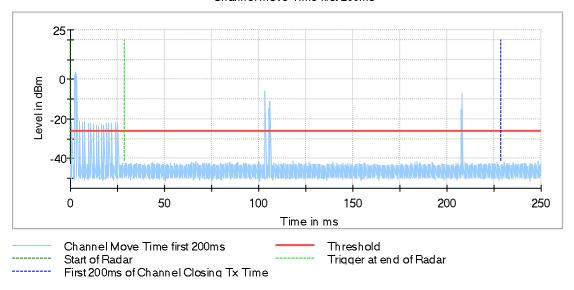
Trigger at end of Radar

First 200ms of Channel Closing Tx Time
10sec Channel Move Time Limit

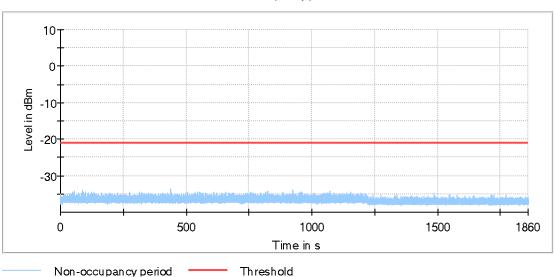
Last measured edge of Channel Closing Tx Time



Channel Move Time first 200ms

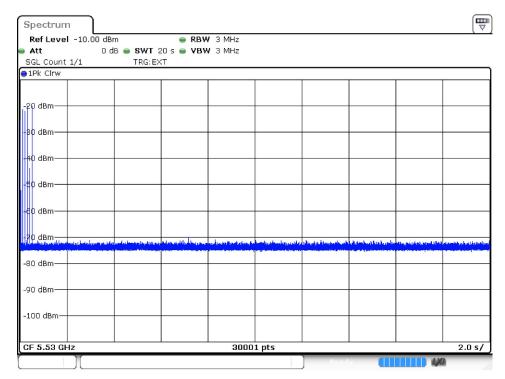


Non-occupancy period



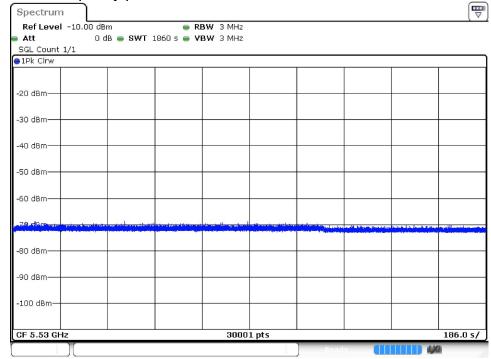


Channel Move Time



Date: 25.NOV.2020 04:51:05

Non-occupancy period



Date: 25.NOV.2020 05:22:13

END OF REPORT