





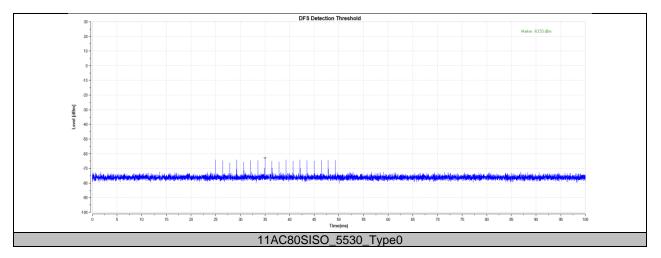


11.6. APPENDIX D: DFS DETECTION THRESHOLDS 11.6.1. Test Result

Test Mode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11AC80SISO	5530	Type0	-63.53	-62.00	PASS



11.6.2. Test Graphs





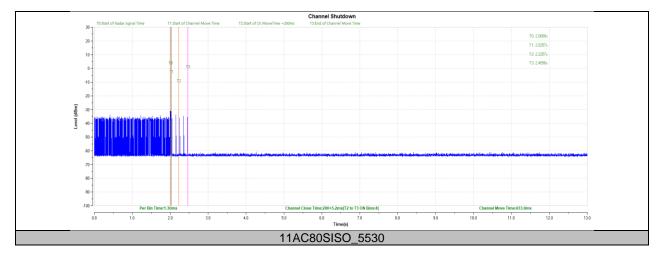
11.7. APPENDIX E: CHANNEL MOVE TIME AND CHANNEL CLOSING TRANSMISSION TIME

11.7.1. Test Result

Test Mode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC80SISO	5530	200+5.2	200+60	433.9	10000	PASS



11.7.2. Test Graphs



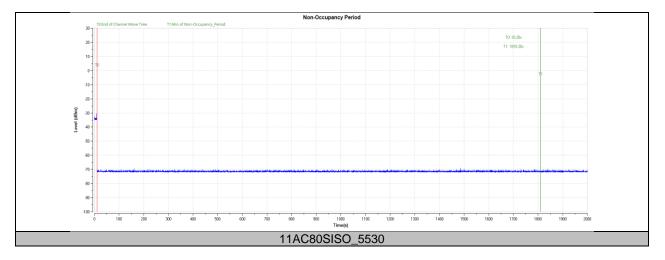
11.8. APPENDIX F: NON-OCCUPANCY PERIOD

Test Result

Test Mode	Channel	Result	Limit[s]	Verdict
11AC80SISO	5530	see test graph	≥1800	PASS



11.8.1. Test Graphs



11.9. APPENDIX G: DUTY CYCLE 11.9.1. Test Result

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11A	100	100	1.0000	100.00	0.00	0.01	0.01
11AC20SISO	100	100	1.0000	100.00	0.00	0.01	0.01
11AC40SISO	100	100	1.0000	100.00	0.00	0.01	0.01
11AC80SISO	100	100	1.0000	100.00	0.00	0.01	0.01

Note:

Duty Cycle Correction Factor=10log (1/x).

Where: x is Duty Cycle (Linear)

Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be used.



11.9.2. Test Graphs

Auto Tune Center Freq 5.20000000 GHz Start Freq 5.20000000 GHz Scale Type Log Lin Start Type Log Lin	Sweep 100.3	5.29 dB dBm dBm dBm dBm dBm dBm dBm d	Center 5.260000000 0 Ref State Stat
Auto Ture Center Frq 5.26000000 GHz Start Frq 5.26000000 GHz Start Frq 5.26000000 GHz Start Frq 5.26000000 GHz Start Frq 5.260000000 GHz Start Frq 5.260000000 GHz Start Frq 5.260000000 GHz Scale Type Log Log Log Auto Type Scale Type Scale Type Log Log Log Log Scale Type Scale Type Scale Type Log	Sweep 100.3	5.29 dB dBm dBm dBm dBm dBm dBm dBm d	Center Freq 5.2600
Auto Tune Center Freq 5.26000000 GHz Start Freq 5.26000000 GHz Stop Freq 5.26000000 GHz Stop Freq 5.26000000 Hz Stop Freq 5.260000000 Hz Stop Freq 5.26000000000 Hz Stop Freq 5.260000000 Hz Stop Freq 5.260000000000 Hz Stop Freq 5.2600000000000 Hz Stop Freq 5.2600000000 Hz Stop Freq 5.26000000000000 Hz Stop Freq 5.2600000000 Hz Stop Freq 5.260000000000000 Hz Stop Freq 5.260000000000000000000000000 Hz Stop Freq 5.26000000000000000000000000000000000000	Sweep 100.3	5.29 dB dBm dBm dBm dBm dBm dBm dBm d	Ref 30.00 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 40.0 50.0 50.0
Center Freq 5.2000000 GHz Start Freq 5.2000000 GHz Start Freq 5.2000000 GHz Start Freq 5.2000000 GHz Start Freq 5.2000000 GHz Auto Man Freq Offset 0 Hz Scale Type Log Lin Frequency Frequency	1204-100 (2004-100 0014) [974106] nt1_5260	GHz #VBW 8.0 MHz	Center 5.2500000000 Res BW SMH2 100 100 100 100 100 100 100 10
	1204-100 (2004-100 0014) [974106] nt1_5260	GHz #VBW 8.0 MHz	Center 5.2500000000 Res BW SMH2 100 100 100 100 100 100 100 10
Span 0 Hz Start Freq 5.26000000 GHz Start Freq 5.260000000 GHz Start Freq 5.260000000 GHz Scale Type Log Lin Freq Offset 0 Hz Scale Type Log Lin Frequency Frequency	1204-100 (2004-100 0014) [974106] nt1_5260	#VBW 8.0 MHz	100 000
Start Freq 5.26000000 GHz 5.26000000 GHz 5.26000000 GHz 5.26000000 GHz 5.26000000 GHz 5.26000000 Hz 6.26000000 Hz 6.260000000 Hz 6.26000000 Hz 6.2600000 Hz 6.2600000 Hz 6.2600000 Hz 6.2600000 Hz 6.2600000 Hz 6.2600000 Hz 6.2600000 Hz 6.2600000 Hz 6.260000 Hz 6.260000 Hz 6.260000 Hz 6.260000 Hz 6.2600000 Hz 6.260000 Hz 6.260000 Hz 6.260000 Hz 6.260000 Hz 6.260000 Hz 6.260000 Hz 6.26000 Hz 6.260000 Hz 6.260000 Hz 6.26000 Hz 6.26000 Hz 6.26000 Hz 6.26000 Hz 6.26000 Hz 6.26000 Hz 6.26000 Hz 6.2600 Hz	1204-100 (2004-100 0014) [974106] nt1_5260	#VBW 8.0 MHz	000 100 300 300 400 Center 5,250000000 Res BW 8 MHz 100 100 100 100 100 100 100 10
Start Freq 5.26000000 GHz 5.26000000 GHz 5.26000000 GHz 5.26000000 GHz 5.26000000 GHz 5.2600000 GHz 5.260000 GHz 5.260000 GHz 5.260000 GHz 5.260000 GHz 5.26000 GHz 5.2600 GHZ	1204-100 (2004-100 0014) [974106] nt1_5260	#VBW 8.0 MHz	100 200 400 400 400 400 400 400 4
Start Freq 5.26000000 GHz 5.26000000 GHz 5.26000000 GHz 5.26000000 GHz 5.26000000 GHz 5.2600000 GHz 5.260000 GHz 5.260000 GHz 5.260000 GHz 5.260000 GHz 5.26000 GHz 5.2600 GHZ	1204-100 (2004-100 0014) [974106] nt1_5260	#VBW 8.0 MHz	200 300 400 400 400 400 400 400 4
Span 0 Hz Span 0 Hz Span 0 Hz Span 0 Hz Source 100.3 ms (8000 pts) Auto Man Freq Offset 0 Hz Source 101 worket Source 101 worket Scale Type Log Log Auto Scale Type Scale Type Scale Type Scale Type Scale Type Frequency	1204-100 (2004-100 0014) [974106] nt1_5260	#VBW 8.0 MHz	300 400 400 Center 5.250000000 Res BW SMHz 12 2 2 3 4 6 6 7 7
Span 0 Hz Span 0 Hz Sweep 100.3 ms (8000 pts) Auto Freq Offset 0 Hz Scale Type Log Lin Auto Scale Type Log Lin Frequency Frequency Frequency	1204-100 (2004-100 0014) [974106] nt1_5260	#VBW 8.0 MHz	40 0 40 0 Center 5,250000000 Res BW 8 MHz 1 3 4 6 7 7 7
Span 0 Hz Span 0 Hz Sweep 100.3 ms (8000 pts) Auto Freq Offset 0 Hz Scale Type Log Lin Auto Frequency Frequency Frequency	1204-100 (2004-100 0014) [974106] nt1_5260	#VBW 8.0 MHz	Center 5,260000000 Res BW 8 MHz 100 1000 Fre act
Span 0 Hz Span 0 Hz Sweep 100.3 ms (8000 pts) Auto Freq Offset 0 Hz Scale Type Log Lin Auto Scale Type Log Lin Frequency Frequency Frequency	1204-100 (2004-100 0014) [974106] nt1_5260	#VBW 8.0 MHz	400 Center 5.260000000 Res BW 8MHz 120 Crat are for a for a 4 3 4 6 6 6 7 7
Sweep 100.3 ms (8000 pts) 8.00000 MHz Ado Man Freq Offset 0 Hz status Freq Offset 0 Freq Offset status Freq Offset 0 Freq Offset status Freq Offset Scale Type Log status Freq Offset Scale Type Freq Units Status Freq Units	1204-100 (2004-100 0014) [974106] nt1_5260	#VBW 8.0 MHz	Center 5,260000000 Res BW 8 MHz 000 1000 100 100 200 3 3 4 6 7 7
Sweep 100.3 ms (8000 pts) 8.0000 MHz Ado Man Freq Offset 0 Hz status Freq Offset 0 Flatscher Status status Freq Offset 0 Freq Offset status Freq Offset 0 Freq Offset Scale Type Log Status Freq Offset Status Freq Offset Freq Upper Freq Upper	1204-100 (2004-100 0014) [974106] nt1_5260	#VBW 8.0 MHz	Res BW & MHz
Auto Man Freq Offset 0 Hz Scale Type Log Lin status Auto Man Freq Offset 0 Hz Scale Type Log Lin Frequency Frequency Frequency	1204-100 (2004-100 0014) [974106] nt1_5260		1002 MODE FILE SCI 1 2 3 4 6 6 7
	nt1_5260	× v	1 2 3 4 5 6 7
	nt1_5260		3 4 5 6 7
	nt1_5260	m.	4 5 6 7 8 9 10
	nt1_5260	н	6 7 8 9 10
	nt1_5260		8 9 10
	nt1_5260	III	9 10
_5260	nt1_5260		
5260	nt1_5260		11
ALIGN AUTO [01:20:07 PH Aug 06, 2022]			MSG
ALIGN AUTO 0120607 PH Aug 69, 2022 Avg Type: RMS TRACE 12 3 4 5 Frequency TYPE WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW			
ALIGN AUTO 1012007 PH Aug 06, 2022 Avg Type: RMS 174-CE 11.3 3 4 3 5 Trode 11.2 3 4 3 5 Trode 11.2 3 4 3 5 Trode 11.2 3 4 5 Trode 11.2 3 6 Auto Tune			
SAvg Type: RMS Tread Table 5 Frequency Type: RMS Tread Table 5 Frequency Det ² P P P P P Auto Tune		2 DC SENSE:1N1	Keysight Spectrum Analyzer - Sv
Auto Tune	0 µs #Avg Type: RMS	00000 GHz Trig Delay-200.	Center Freq 5.2600
Auto Tune		NFE PNO: Fast ++++ Trig Delay-200. IFGain:Low #Atten: 40 dB	Center Freq 5.2600
			Ref Offset 2
		dBm	10 dB/div Ref 30.00
Center Freq	and and the state of a structure of the state of the structure of the stru		20.0
5.26000000 GHz			10.0
			0.00
Start Freq			-10.0
5.26000000 GHz			-20.0
			-30.0
Stop Freq			-40.0
5.26000000 GHz			-50.0
			-60.0
Span 0 Hz CF Step		GHz	Center 5.26000000
Sweep 100.3 ms (8000 pts) 8.000000 MHz		#VBW 8.0 MHz	Res BW 8 MHz
ON FUNCTION WIDTH FUNCTION VALUE	FUNCTION FUNCTION WIDTH	X Y	MKR MODE TRC SCL
Freq Offset			2
0 Hz			4
			6
Scale Type			6 6 7 8 9 10 11
Log Lin			9
· · · · · · · · · · · · · · · · · · ·			11
STATUS	STATUS		MSG
		1100000	
ANT_3200	O_Ant1_5260	TIAC20SIS	
ALIGN AUTO 01:21:41 PM Aug 09, 2022	ALIGN ALITO	2 DC SENSE:INT	Keysight Spectrum Analyzer - Sv
ALIGN AUTO 01:21:11 FM Aug 09:2022 Frequency SAVg Type: RMS Trafe Frequency TYPE Trafe Frequency	#Avg Type: RMS		Center Freq 5.2700
DETPPPPP		NFE PNO: Fast +++ IFGain:Low #Atten: 40 dB	
Auto Tune			Ref Offset 2
		dBm	10 dB/div Ref 30.00
			20.0
Center Freq			10.0
Center Freq 5.27000000 GHz	an and the second state of the		0.00
			-10.0
5.27000000 GHz			-20.0
5.27000000 GHz Start Freq			-30.0
5.27000000 GHz			-30.0
5.27000000 GHz Start Freq			-30.0 -40.0 -50.0
5.27000000 GHz 5.27000000 GHz 5.27000000 GHz 5.27000000 GHz 5.27000000 GHz			-30.0 -40.0 -50.0 -60.0
5.27000000 GHz Start Freq 5.27000000 GHz Stop Freq 5.27000000 GHz Span 0 Hz CF Step		GHz	-200 -200 -200 -200 -200 -200 -200 -200
5.27000000 GHz 5.27000000 GHZ 5.2700000000000000000000000000		#VBW 8.0 MHz	300
5.27000000 GHz 5.27000000 GHz 5.27000000 GHz 5.27000000 GHz 5.27000000 GHz 5.27000000 GHz 5.27000000 GHz 5.27000000 GHz		#VBW 8.0 MHz	-200 -200 -200 -200 -200 -200 -200 -200
5.27000000 GHz 5.27000000 GHz Start Freq 5.27000000 GHz Stop Freq 5.27000000 GHz Stop Freq 5.27000000 GHz Stop Freq 5.27000000 GHz CF Step 8.00000 MHz Auto		#VBW 8.0 MHz	300
5.27000000 GHz 5.27000000 GHz Start Freq 5.270000000 GHz Start Freq 5.270000000 GHz Start Freq 5.270000000 GHz Start Freq Start Freq 5.270000000 GHz Start Freq Start Freq 5.270000000 GHz Start Freq		#VBW 8.0 MHz	300 400 400 Center 5.270000000 Res BW 8 MHz 2 3
5.27000000 GHz 5.27000000 GHz Start Freq 5.27000000 GHz Stop Freq 5.27000000 GHz Stop Freq 5.27000000 GHz Stop Freq 5.27000000 GHz CF Step 8.00000 MHz Auto		#VBW 8.0 MHz	300 400 400 Center 5.270000000 Res BW 8 MHz 2 3
5.27000000 GHz 5.27000000 GHz Start Freq 5.27000000 GHz 5.27000000 GHz Stop Freq 5.27000000 GHz Stop Freq 5.27000000 GHz Stop Freq 5.27000000 GHz Subscription Subscription Stop Freq Subscription Subscription Stop Freq Subscription Stop Freq Subscription Stop Freq Subscription Subscription Stop Freq Subscription Stop Freq Stop		#VBW 8.0 MHz	300 400 400 Center 5.270000000 Res BW 8 MHz 2 3
Span 0 Hz Symeop 100.3 ms (8000 pts) Auto Man Freq Offset 0 Hz		#VBW 8.0 MHz	300 400 400 Center 5.270000000 Res BW 8 MHz 2 3
5.27000000 GHz 5.27000000 GHz Start Freq 5.27000000 GHz 5.27000000 GHz Stop Freq 5.27000000 GHz Stop Freq 5.27000000 GHz Stop Freq 5.27000000 GHz Subscription Subscription Stop Freq Subscription Subscription Stop Freq Subscription Stop Freq Subscription Stop Freq Subscription Subscription Stop Freq Subscription Stop Freq Stop		#VBW 8.0 MHz	300
5.27000000 GHz 5.27000000 GHz Start Freq 5.27000000 GHz Stop Freq 5.27000000 GHz Scolor Freq 5.27000000 GHz Scolor Freq 5.27000000 GHz CF Step 8.00000 MHz Auto Man Freq Offset 0 Hz Scale Type	FUNCTION FUNCTION WOTH	#VBW 8.0 MHz	300 400 400 Center 5.270000000 Res BW 8 MHz 2 3
			10.0 0.00 -10.0



	Keysight Spectrum Anal	house - Evonat FA								- 6 ×	
		50 Ω DC	z	SENSI Trig Delay- Trig: Video	200.0 µs	#Avg Type	LIGN AUTO	01:22:57 PM Au TRACE 1	22456	Frequency	
	Ref 01	IFG ffset 25.52 dB	O: Fast +++ ain:Low	#Atten: 40	B			DET	PPPPP	Auto Tune	
	10 dB/div Ref 3	30.00 dBm								Center Freq	
	10.0		n et a maile a ser	-	فنخدر فإردت أجمه				-	5.29000000 GHz	
	-10.0								TRIO L.VL	Start Freq	
	-20.0									5.29000000 GHz	
	-40.0									Stop Freq 5.29000000 GHz	
	-60.0 Center 5.290000	0000 GHz						Spa	an 0 Hz	CF Step	
	Res BW 8 MHz	×	#VBW 3	3.0 MHz	FUNC	TION FUN		00.3 ms (80	00 pts)	8.000000 MHz Auto Man	
	1 2 3									Freq Offset	
	4 5 6									0 Hz	
	9 10									Scale Type	
	11 <			ш			STATUS		•	Log <u>Lin</u>	
Ľ	03		11A(C80S	ISO	Ant1					

11.10. APPENDIX H: FREQUENCY STABILITY 11.10.1. Test Result

Frequency Error vs. Voltage											
802.11a20:5260MHz											
Taman	Valt	0 Mi	nute	2 Min	ute	5 Min	ute	10 Minute			
Temp	Volt	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Toleranc e (ppm)	Freq.Error (MHz)	Toler ance (ppm)		
TN	VL	5260.0129	2.45	5260.0184	3.49	5259.9841	-3.02	5260.0170	3.23		
TN	VN	5259.9828	-3.26	5260.0164	3.11	5260.0203	3.87	5259.9920	-1.52		
TN	VH	5260.0081	1.54	5260.0117	2.23	5259.9779	-4.20	5260.0235	4.48		
	Frequency Error vs. Temperature										
802.11a:5260MHz											
		0 Minute 2 Minute									
		0 Mi	nute	2 Min	ute	5 Min	ute	10 Minu	Ite		
Temp.	Volt.	0 Mi Freq.Error (MHz)	nute Tolerance (ppm)	2 Min Freq.Error (MHz)	ute Tolerance (ppm)	5 Min Freq.Error (MHz)	ute Toleranc e (ppm)	10 Minu Freq.Error (MHz)	ite Tolera nce (ppm)		
Temp. 60	Volt. VN	Freq.Error	Tolerance	Freq.Error	Tolerance	Freq.Error	Toleranc e	Freq.Error	Tolera nce		
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Toleranc e (ppm)	Freq.Error (MHz)	Tolera nce (ppm)		
60	VN	Freq.Error (MHz) 5259.9858	Tolerance (ppm) -2.71	Freq.Error (MHz) 5260.0020	Tolerance (ppm) 0.39	Freq.Error (MHz) 5259.9976	Toleranc e (ppm) -0.46	Freq.Error (MHz) 5260.0063	Tolera nce (ppm) 1.20		
60 50	VN VN	Freq.Error (MHz) 5259.9858 5260.0213	Tolerance (ppm) -2.71 4.05	Freq.Error (MHz) 5260.0020 5259.9911	Tolerance (ppm) 0.39 -1.70	Freq.Error (MHz) 5259.9976 5259.9933	Toleranc e (ppm) -0.46 -1.27 -1.27	Freq.Error (MHz) 5260.0063 5260.0049	Tolera nce (ppm) 1.20 0.92		
60 50 40	VN VN VN	Freq.Error (MHz) 5259.9858 5260.0213 5260.0055	Tolerance (ppm) -2.71 4.05 1.04	Freq.Error (MHz) 5260.0020 5259.9911 5259.9762	Tolerance (ppm) 0.39 -1.70 -4.53	Freq.Error (MHz) 5259.9976 5259.9933 5259.9776	Toleranc e (ppm) -0.46 -1.27 -4.26	Freq.Error (MHz) 5260.0063 5260.0049 5260.0202	Tolera nce (ppm) 1.20 0.92 3.84		
60 50 40 30	VN VN VN VN	Freq.Error (MHz) 5259.9858 5260.0213 5260.0055 5259.9891	Tolerance (ppm) -2.71 4.05 1.04 -2.08	Freq.Error (MHz) 5260.0020 5259.9911 5259.9762 5259.9889	Tolerance (ppm) 0.39 -1.70 -4.53 -2.12	Freq.Error (MHz) 5259.9976 5259.9933 5259.9776 5260.0128	Toleranc e (ppm) -0.46 -1.27 -4.26 2.43 -2.43	Freq.Error (MHz) 5260.0063 5260.0049 5260.0202 5260.0246	Tolera nce (ppm) 1.20 0.92 3.84 4.67		

	Frequency Error vs. Voltage										
802.11a20:5700MHz											
Tamm	Valt	0 Minute		2 Mir	nute	5 Mir	nute	10 Minute			
Temp		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Toleran ce (ppm)		
TN	VL	5700.0210	3.69	5700.0052	0.92	5700.0037	0.66	5699.9941	-1.03		
TN	VN	5699.9845	-2.73	5700.0157	2.75	5699.9945	-0.97	5700.0163	2.86		
TN	VH	5699.9807	-3.39	5700.0026	0.45	5700.0118	2.08	5700.0117	2.06		
	Frequency Error vs. Temperature										
	802.11a:5700MHz										
Tamm	Valt	0 Min	ute	2 Mir	nute	5 Mir	nute	10 Minute			
Temp	Volt	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Toleran ce (ppm)		
60	VN	5700.0129	2.26	5699.9931	-1.21	5699.9986	-0.25	5700.0213	3.74		
50	VN	5700.0207	3.63	5699.9946	-0.94	5700.0141	2.47	5699.9794	-3.61		
40	VN	5700.0201	3.53	5699.9984	-0.28	5700.0160	2.80	5699.9919	-1.42		
30	VN	5699.9946	-0.94	5699.9992	-0.14	5699.9894	-1.86	5700.0096	1.69		
20	VN	5699.9797	-3.56	5699.9917	-1.46	5699.9964	-0.62	5699.9964	-0.63		
10	VN	5699.9811	-3.32	5699.9837	-2.87	5700.0141	2.47	5699.9999	-0.02		
0	VN	5699.9802	-3.47	5699.9863	-2.41	5699.9956	-0.77	5699.9811	-3.32		

1. All antennas, test modes and test channels have been tested, only the worst data record in the report.

2. For the detail Test Conditions, please refer to section 10 TEST ENVIRONMENT

END OF REPORT