

Frequency Finder

3 Test Frequency



Workshop

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Test Frequency (1)

- Click button *Test Frequency* on window *COM list 3*
- Options:
 - Test Single Frequency
 - Test found frequencies
(all frequencies in the found-set)
- As desired by the user, the calculation results can be displayed on a map with Google Earth.
- When the calculations are completed the window *Summary Calculations* is displayed

Test Frequency (2)

Summary calculation results (1)

COM Data Base (COM LIST 3) Summary Calculations												ST	
Active Region ==APAC		Regional COM list		Delete all records		Redo calculations		Co-frequency details		Adj. frequency details			
Date	Key	D	Frequency	Region	Country	Location	Service	Margin	Result	Co. freq.	Margin	Result	Adj. freq.
17_Sep_2016 11:31:31	05952	R	126.500	EUR	Libya	BENGAZI ACC	ACC	-441	Not compatible	382		Compatible	
17_Sep_2016 10:31:18	05952	R	126.500	EUR	Libya	BENGAZI ACC	ACC	-441	Not compatible	382		Compatible	
17_Sep_2016 8:53:41	00065	R	136.350	EUR	Albania	TIRANA ACC	ACC	-199	Not compatible	134		Compatible	

- Presents most recent and earlier test results
- Option to redo earlier tests with button with button *Redo* or click in field *Co-frequency details*
- Option to view detailed co- and adjacent calculation results of the most recent test. Click button Co- or Adj frequency details
- Alternatively the user can navigate to the window *Summary Calculations* with the button *Calculation Results* on the window COM list 3

Test Frequency (3)

Detailed calculation results – Co-frequency (1)

Frequency Finder

COM Data Base (COM LIST 3) Details Co-frequency compatibility Calculation of CO-frequency separation distances Plot interference - All ST

Regional COM list 15 / 15 records Show all records Go to Adj channel calc Go to Summary calc

Test for the frequency

Key	R	Frequency	Range	Height	Radio Horizon	Sectorname	Latitude	Service			
1	R 00065	136.350	261	45000	261	28	41D17'00" N	ACC			
Region EUR		Country Albania		Location TIRANA ACC		Longitude 019D47'00" E		DOC ACC A-450			
Not compatible with record #2, #3, #4							Margin -198 NM	Not compatible	ACC (Upper assumed) Area	Ext. range	Plot coverage
First record is station being tested, records below are stations against which the first station has been tested.											
Compatibility calculations between unprotected services are only shown for information.											
2	R 300194	136.350	194	25000	194		32D05'00" N	ACC-L			
Region AFI		Country Libya		Location BENGHAZI ACC		Longitude 020D17'00" E		DOC ACC-L C-194/250			
The distance is measured between the edge of the area service (closest point) in record 1 and the location of the station in the current record			Actual distance	450 NM	Required distance	649 NM	Margin -198 NM	Not compatible	ACC Lower Circular	Ext. range	Plot interference
3	R 05951	136.350	194	25000	194	1198	32D05'00" N	ACC			
Region EUR		Country Libya		Location BENGHAZI ACC		Longitude 020D17'00" E		DOC ACC A-250			
The distance is measured between the edge of the area service in record 1 and the edge of the area service in the current record (closest points)			Actual distance	353 NM	Required distance	455 NM	Margin -102 NM	Not compatible	ACC (Upper assumed) Area	Ext. range	Plot interference

- Displays for each frequency against which the new/modified frequency has been tested details of the compatibility between the two frequency assignments

Test Frequency (4)

Detailed calculation results – Co-frequency (2)

- Details include
 - Actual distance between the two stations
 - Minimum required distance
 - Margin in NM (positive figure means frequency assignment are compatible; negative figure means frequency assignments are not compatible)
 - Message “Compatible” or “Not Compatible”
 - If the station is part of an extended range family
 - If the station is linked to a specific area (polygon)

Test Frequency (5)

Detailed calculation results – Co-frequency (3)

Buttons (1)

- Regional COM list
 - Returns COM list 3 with the selected frequency
- Show all records
 - Show all records used in the calculation
- Go to Adj channel calc.
 - Navigate to the window with adjacent channel calculation results
- Go to Summary calc.
 - Navigate to the window with summary calculation results

Test Frequency (5)

Detailed calculation results – Co-frequency (3)

Buttons (2)

- Plot interference – all
 - Plot compatibility of all frequency assignments in the table
- Plot coverage
 - Plot coverage of the station that has been tested
- Plot interference
 - Plot interference or compatibility of the station that is being tested with the selected station against which compatibility is tested.

Test Frequency (6)

Detailed calculation results – Adjacent frequency (1)

Frequency Finder

COM Data Base (COM LIST 3) Details Adj-frequency compatibility ADJACENT frequency compatibility

Regional COM list 2 / 55 records Show all records Go to Co-channel calc Go to Summary calc. Plot interference - All

Key	R	Region	Country	Location	Frequency	Range	Service	DOC		
1	05365	EUR	Netherlands	ROTTERDAM ROTTERDAM	121.775	5 NM	AS	AS C-5/1		
				Sectorname	Margin	-10 NM	Compatible *	Plot coverage		
First record is station being tested, records below are stations against which the first station has been tested.										
2	05363	EUR	Netherlands	ROTTERDAM ROTTERDAM	121.750	5 NM	AS	AS C-5/1		
		Actual Distance	0 NM	Required Distance	10 NM	Sectorname	Margin	-10 NM	Compatible *	Plot interference
The distance is measured between the location of the station in record 1 and the location of the station in the current record.										
* For information only; States need to secure a minimum separation distance of 10 NM between the transmitting / receiving stations in record 1 and the current record. User Manual § 4.9.6.3.3.15										
3	02150	EUR	Belgium	BRUXELLES NATIONAL	121.750	5 NM	AS	AS C-5/1		
		Actual Distance	63 NM	Required Distance	10 NM	Sectorname	Margin	53 NM	Compatible	Plot interference
The distance is measured between the location of the station in record 1 and the location of the station in the current record.										
For information only										

- Displays for each frequency against which the new/modified frequency has been tested details of the compatibility between two adjacent frequency assignments

Test Frequency (7)

Detailed calculation results – Adj-frequency (2)

- Details include
 - Actual distance between the two stations
 - Minimum required distance
 - Margin in NM (positive figure means frequency assignment are compatible; negative figure means frequency assignments are not compatible)
 - Message “Compatible” or “Not Compatible”
 - If the station is linked to a specific area (polygon)

Calculation results (1)

- Button Calculation results.
 - Navigates to the window with the summary of previous compatibility calculations.
- Re-do earlier calculations when COM list 3 was modified
- Navigate to windows with detailed compatibility analysis for co- and adjacent frequency assignments
- More information in slides with Test Results