

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011121\
 Data File : VU041949.D
 Acq On : 12 Jan 2021 02:59
 Operator : SY/MD
 Sample : M1027-12
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFXK6

Quant Time: Jan 12 05:53:08 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR011121WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Jan 12 05:50:11 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	105127	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	102437	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	43911	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	47135	5.32	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	106.40%
7) Chloroethane-d5	1.92	69	45986	5.60	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	112.00%
11) 1,1-Dichloroethene-d2	2.58	63	73885	4.40	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	88.00%
20) 2-Butanone-d5	4.65	46	141153	57.32	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	114.64%
24) Chloroform-d	5.08	84	85950	5.32	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	106.40%
26) 1,2-Dichloroethane-d4	5.72	65	48130	5.65	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	113.00%
32) Benzene-d6	5.74	84	160755	5.31	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	106.20%
36) 1,2-Dichloropropane-d6	6.70	67	52117	5.48	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	109.60%
41) Toluene-d8	7.90	98	137506	5.01	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.20%
43) trans-1,3-Dichloropropene-	8.19	79	20409	5.14	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	102.80%
46) 2-Hexanone-d5	8.64	63	124736	62.13	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	124.26%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	48322	5.74	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	114.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	50353	6.06	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	121.20%#

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	893	0.088 ug/L	95
3) Chloromethane	1.52	50	1619	0.146 ug/L	98
8) Chloroethane	2.17	64	390	0.053 ug/L	88
9) Trichlorofluoromethane	2.15	101	16013	1.033 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.57	101	1152	0.137 ug/L #	48
12) 1,1-Dichloroethene	2.59	96	7477	0.911 ug/L #	1
13) Acetone	2.66	43	4535	2.836 ug/L #	62
15) Methyl Acetate	2.97	43	470	0.129 ug/L #	50
16) Methylene chloride	3.06	84	191281	18.543 ug/L	95
17) Methyl tert-butyl Ether	3.38	73	19192	0.975 ug/L	99
19) 1,1-Dichloroethane	3.89	63	32860	2.197 ug/L	98
22) cis-1,2-Dichloroethene	4.68	96	2319	0.273 ug/L	99
25) Chloroform	5.10	83	16289	1.045 ug/L	93
27) 1,2-Dichloroethane	5.81	62	760	0.076 ug/L #	73
29) 1,1,1-Trichloroethane	5.33	97	6861	0.513 ug/L	96
31) Carbon tetrachloride	5.54	117	680	0.059 ug/L	84
34) Trichloroethene	6.55	95	32377	3.736 ug/L	99

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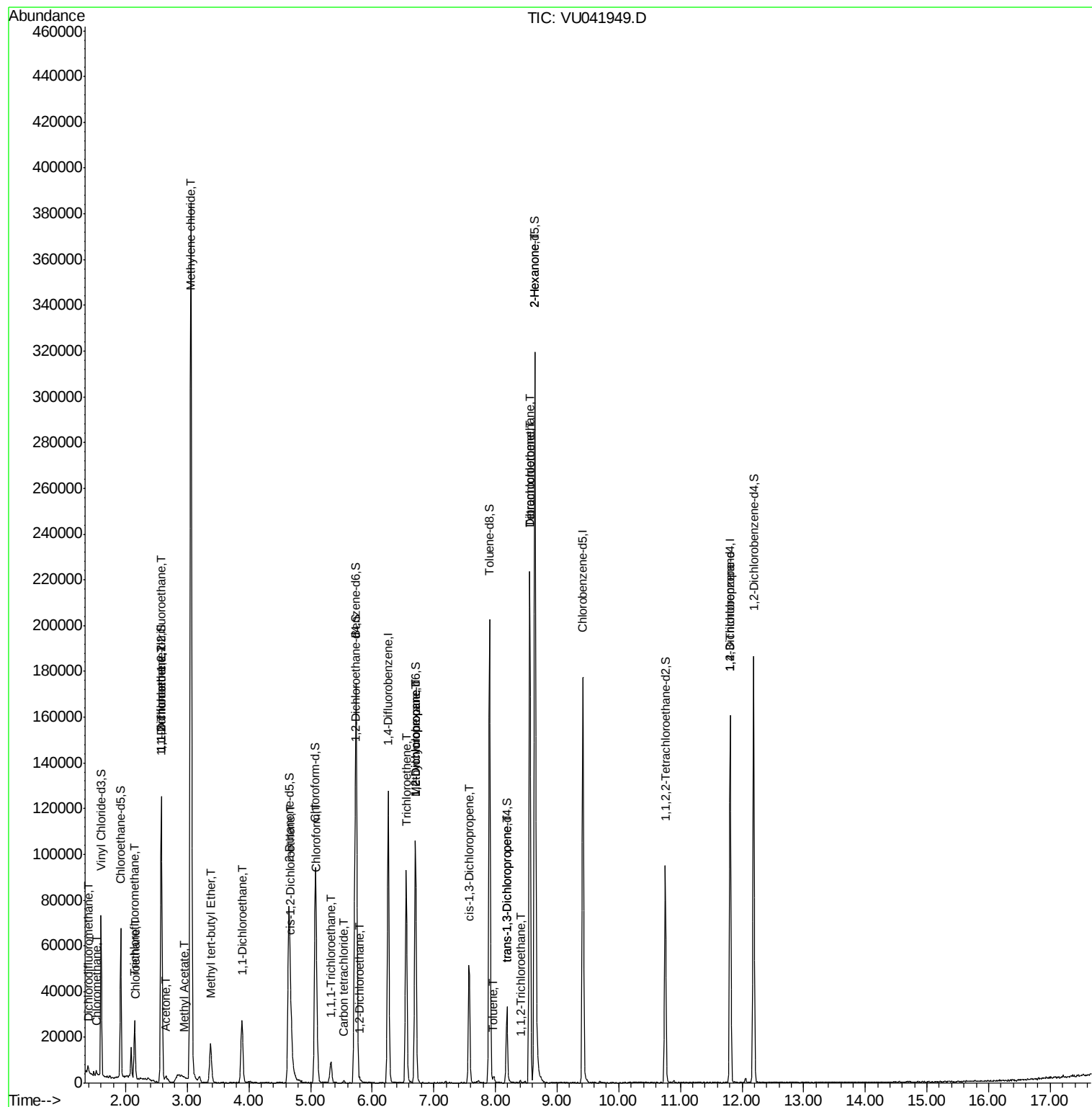
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Methylcyclohexane	6.70	83	12516	0.983	ug/L #	17
37) 1,2-Dichloropropane	6.70	63	5889	0.715	ug/L #	88
39) cis-1,3-Dichloropropene	7.57	75	1254	0.103	ug/L #	76
42) Toluene	7.97	91	1810	0.053	ug/L	78
44) trans-1,3-Dichloropropene	8.18	75	737	0.069	ug/L #	53
45) 1,1,2-Trichloroethane	8.40	97	402	0.064	ug/L	88
47) Tetrachloroethene	8.56	164	50352	8.350	ug/L	97
48) 2-Hexanone	8.64	43	13327	3.459	ug/L #	68
49) Dibromochloromethane	8.56	129	49137	6.397	ug/L #	10
59) 1,2,3-Trichloropropane	11.81	75	4482	0.745	ug/L	95

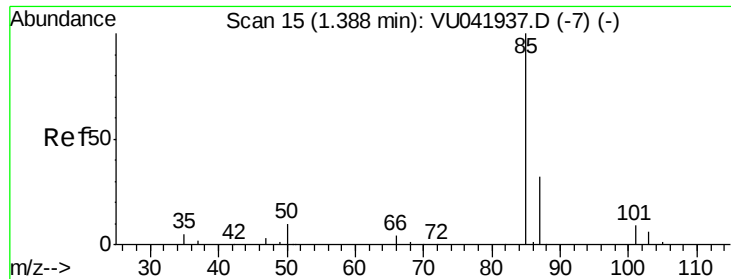
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.088 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU041949.D

Acq: 12 Jan 2021 02:59

Instrument :

MSVOA_U

ClientSampleId :

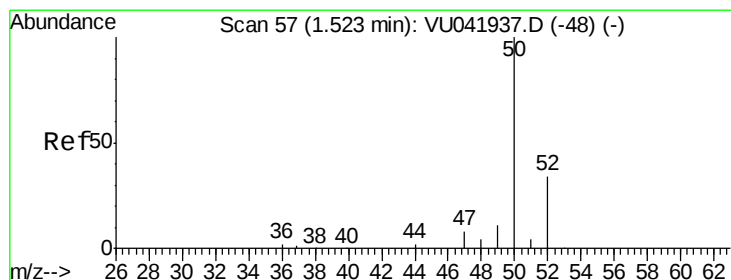
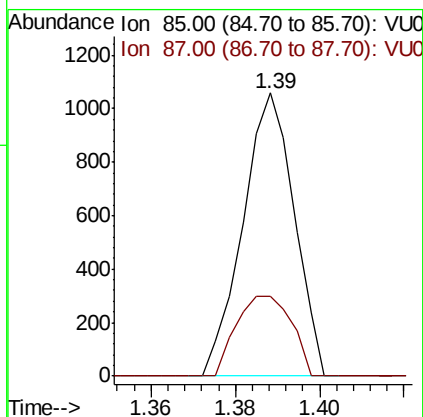
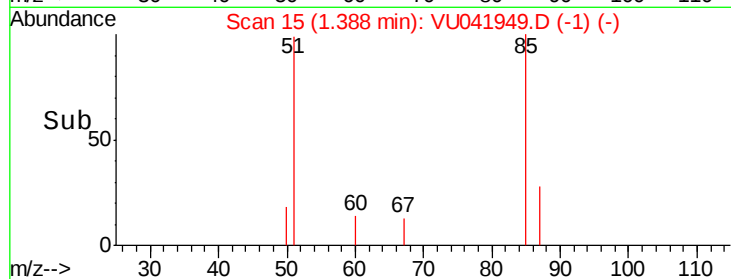
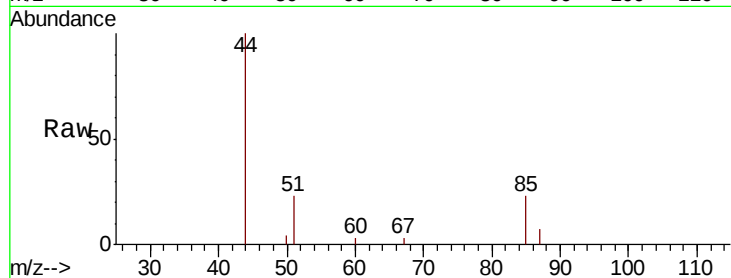
BFXK6

Tot Ion: 85 Resp: 893

Ion Ratio Lower Upper

85 100

87 30.1 26.3 39.5



#3

Chloromethane

Concen: 0.146 ug/L

RT: 1.52 min Scan# 57

Delta R.T. -0.00 min

Lab File: VU041949.D

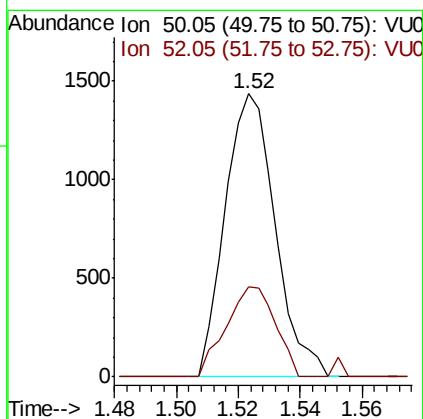
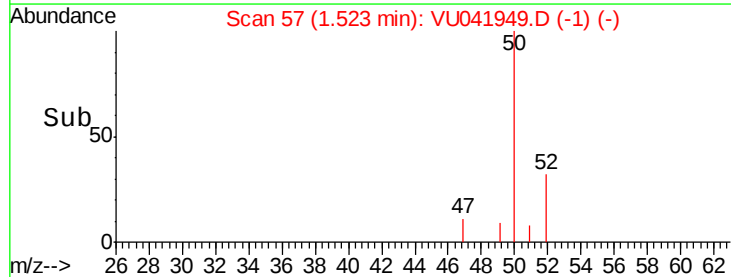
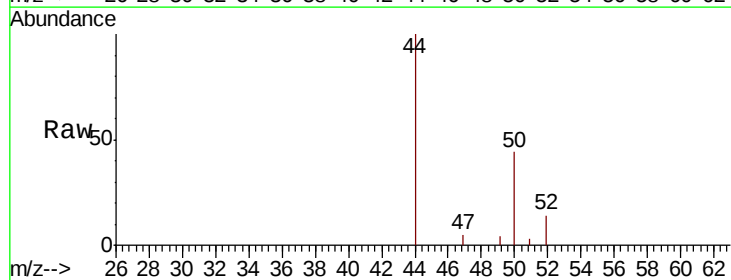
Acq: 12 Jan 2021 02:59

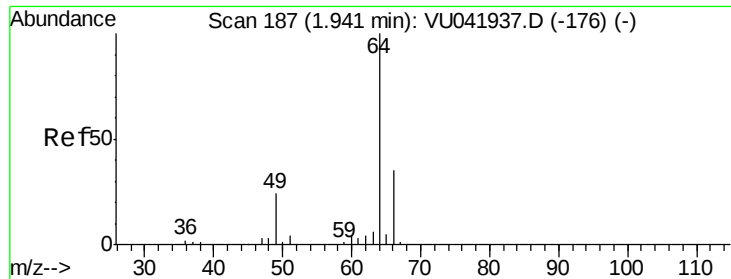
Tgt Ion: 50 Resp: 1619

Ion Ratio Lower Upper

50 100

52 31.6 21.4 39.8





#8

Chloroethane

Concen: 0.053 ug/L

RT: 2.17 min Scan# 257

Delta R.T. 0.23 min

Lab File: VU041949.D

Acq: 12 Jan 2021 02:59

Instrument :

MSVOA_U

ClientSampleId :

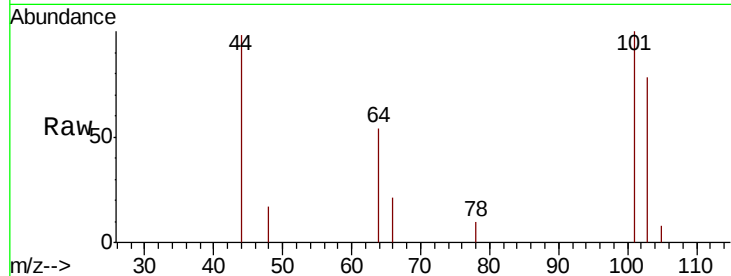
BFXK6

Tot Ion: 64 Resp: 390

Ion Ratio Lower Upper

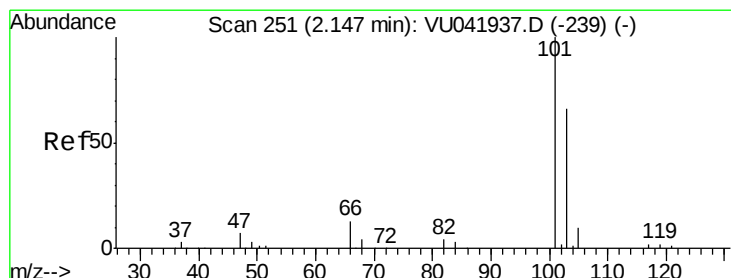
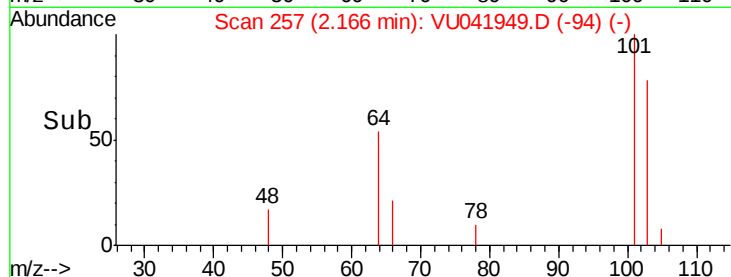
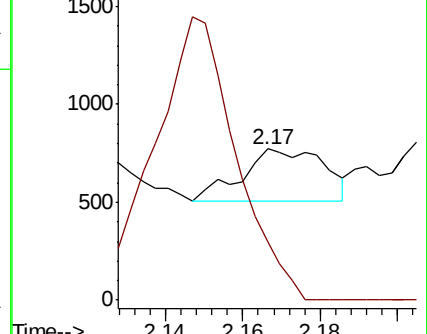
64 100

66 38.5 22.1 41.1



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0



#9

Trichlorofluoromethane

Concen: 1.033 ug/L

RT: 2.15 min Scan# 251

Delta R.T. -0.00 min

Lab File: VU041949.D

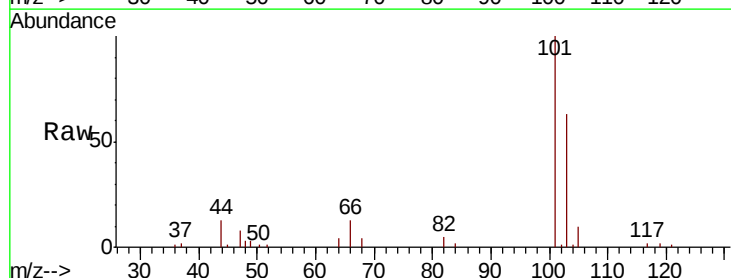
Acq: 12 Jan 2021 02:59

Tgt Ion:101 Resp: 16013

Ion Ratio Lower Upper

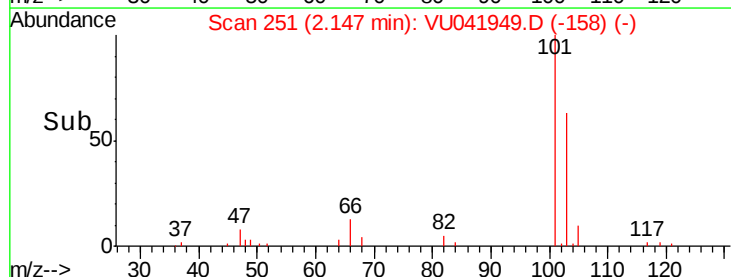
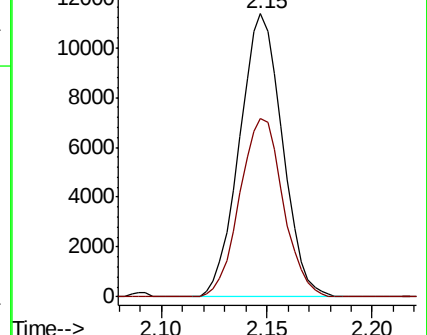
101 100

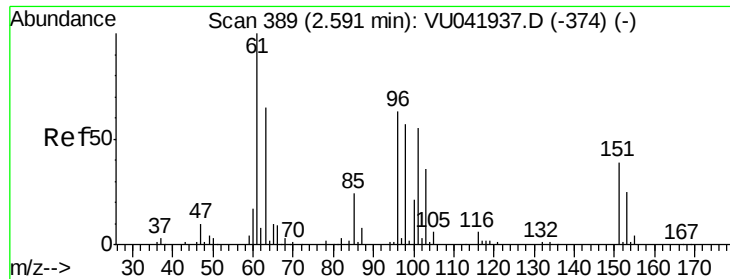
103 63.7 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.137 ug/L

RT: 2.57 min Scan# 384

Delta R.T. -0.02 min

Lab File: VU041949.D

Acq: 12 Jan 2021 02:59

Instrument :

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BFXK6

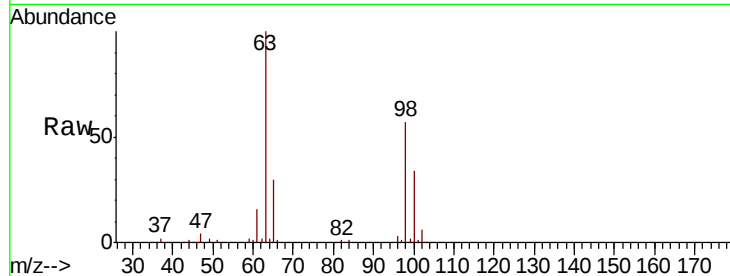
Tot Ion:101 Resp: 1152

Ion Ratio Lower Upper

101 100

85 15.7 35.1 52.7#

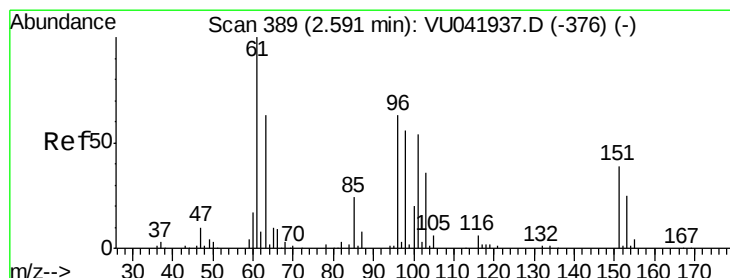
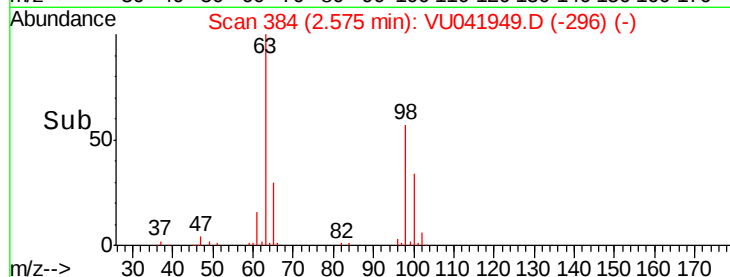
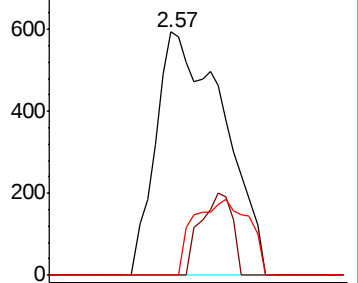
151 24.7 58.2 87.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.911 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU041949.D

Acq: 12 Jan 2021 02:59

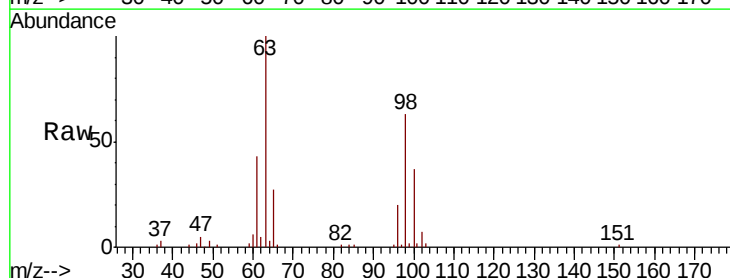
Tgt Ion: 96 Resp: 7477

Ion Ratio Lower Upper

96 100

61 218.7 123.5 229.4

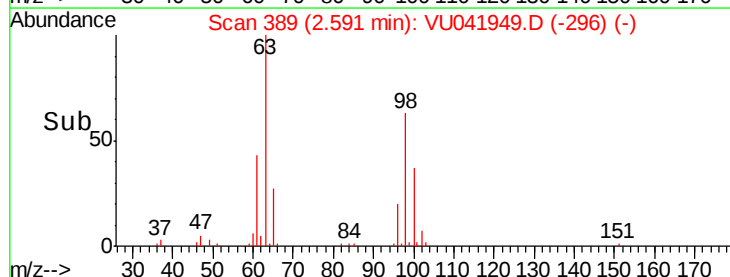
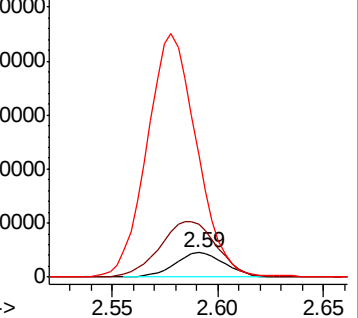
63 504.7 93.5 173.7#

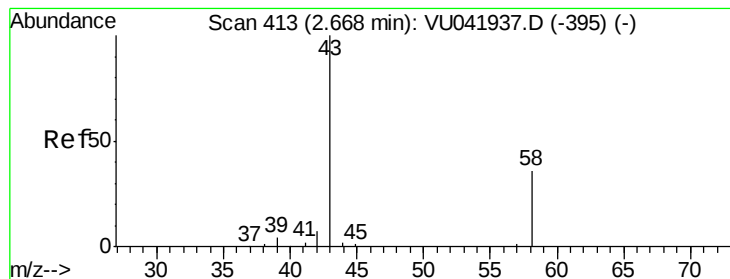


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 2.836 ug/L

RT: 2.66 min Scan# 411

Delta R.T. -0.01 min

Lab File: VU041949.D

Acq: 12 Jan 2021 02:59

Instrument :

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ClientSampleId :

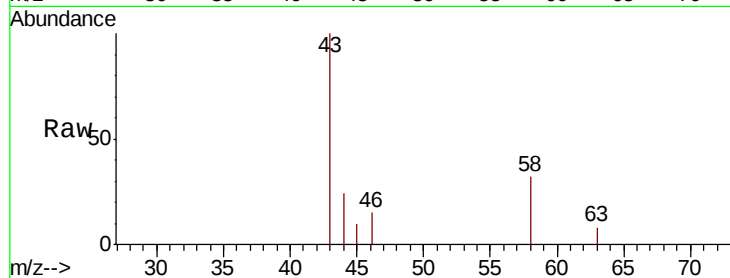
BFXK6

Tot Ion: 43 Resp: 4535

Ion Ratio Lower Upper

43 100

58 26.7 0.0 23.6#



Abundance Ion 43.05 (42.75 to 43.75): VU041949.D (-320) (-)

Ion 58.05 (57.75 to 58.75): VU041949.D (-320) (-)

2.66

1500

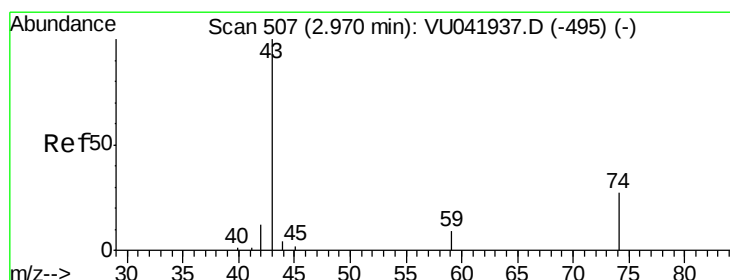
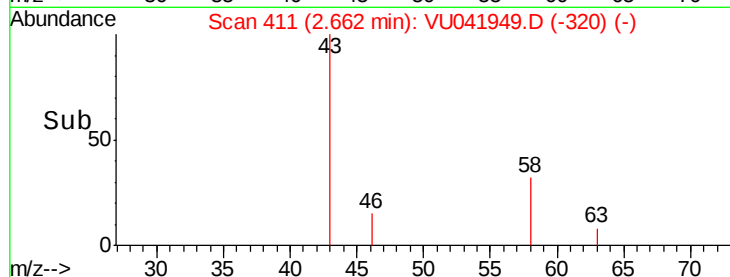
1000

500

0

2.60 2.65 2.70 2.75

Time-->



#15

Methyl Acetate

Concen: 0.129 ug/L

RT: 2.97 min Scan# 506

Delta R.T. -0.00 min

Lab File: VU041949.D

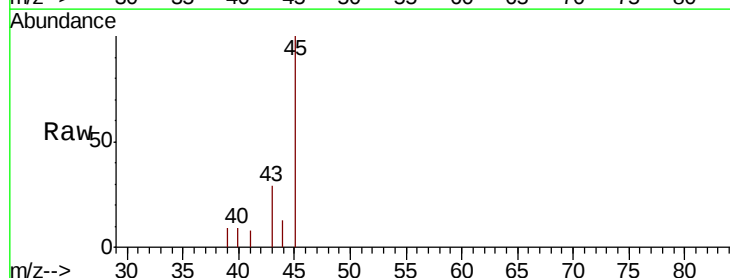
Acq: 12 Jan 2021 02:59

Tgt Ion: 43 Resp: 470

Ion Ratio Lower Upper

43 100

74 0.0 19.8 29.8#



Abundance Ion 43.05 (42.75 to 43.75): VU041949.D (-414) (-)

Ion 74.05 (73.75 to 74.75): VU041949.D (-414) (-)

2.97

500

400

300

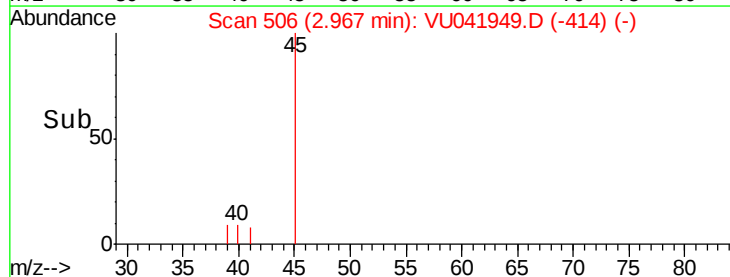
200

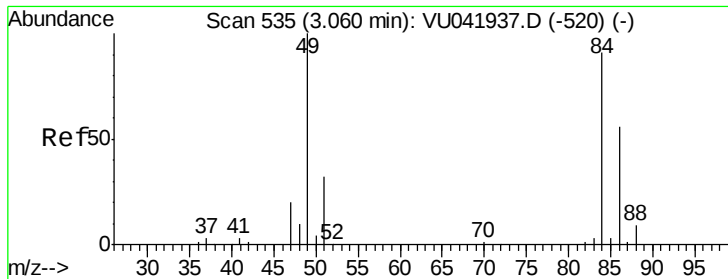
100

0

2.95 2.96 2.97 2.98 2.99

Time-->

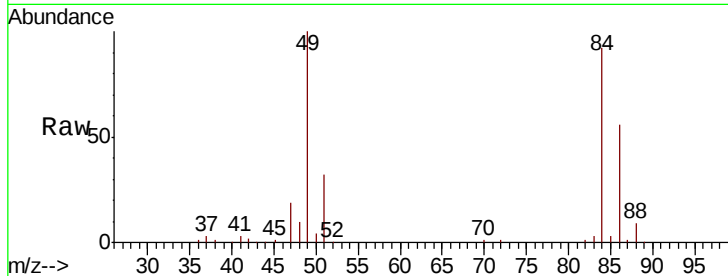




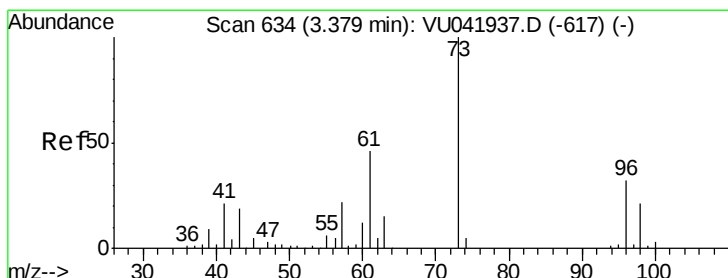
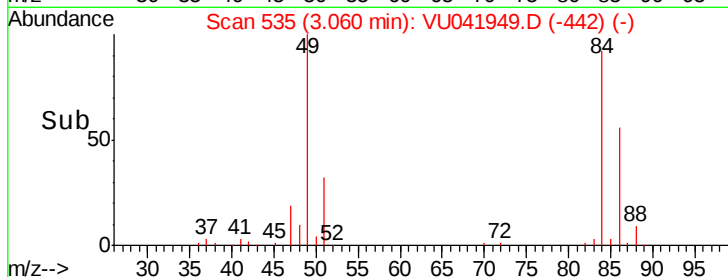
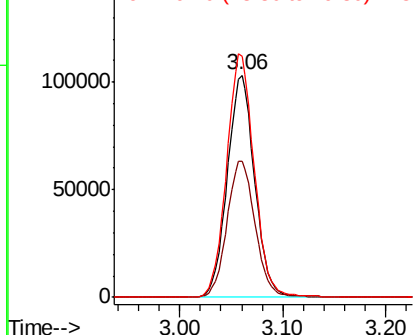
#16
Methvlene chloride
Concen: 18.543 ug/L
RT: 3.06 min Scan# 535
Delta R.T. -0.00 min
Lab File: VU041949.D
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Tot Ion: 84 Resp: 191281
Ion Ratio Lower Upper
84 100
86 61.3 43.5 80.7
49 108.7 81.8 151.8

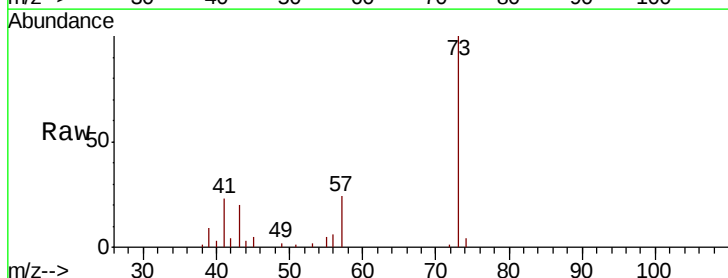


Abundance Ion 84.05 (83.75 to 84.75): VU0
Ion 86.00 (85.70 to 86.70): VU0
Ion 49.10 (48.80 to 49.80): VU0

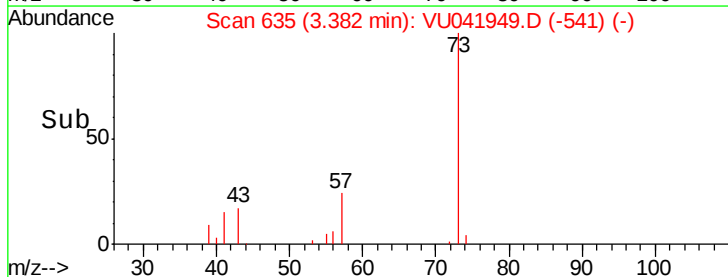
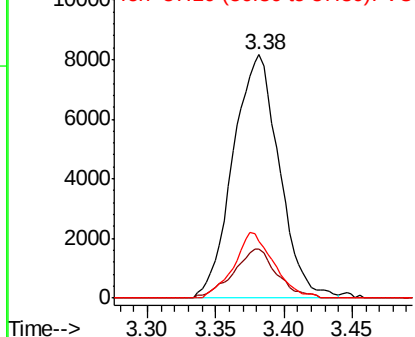


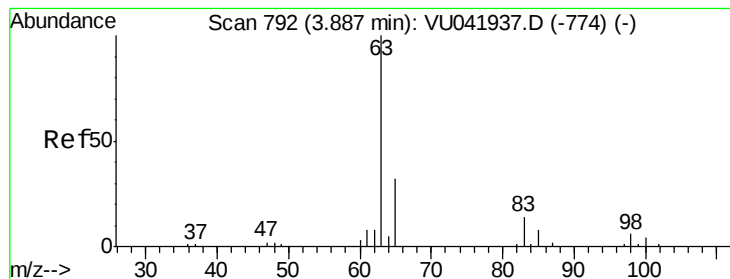
#17
Methyl tert-butyl Ether
Concen: 0.975 ug/L
RT: 3.38 min Scan# 635
Delta R.T. 0.00 min
Lab File: VU041949.D
Acq: 12 Jan 2021 02:59

Tgt Ion: 73 Resp: 19192
Ion Ratio Lower Upper
73 100
43 19.1 15.8 23.8
57 23.2 18.3 27.5



Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0





#19

1,1-Dichloroethane

Concen: 2.197 ug/L

RT: 3.89 min Scan# 793

Delta R.T. 0.00 min

Lab File: VU041949.D

Acq: 12 Jan 2021 02:59

Instrument :

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ClientSampleId :

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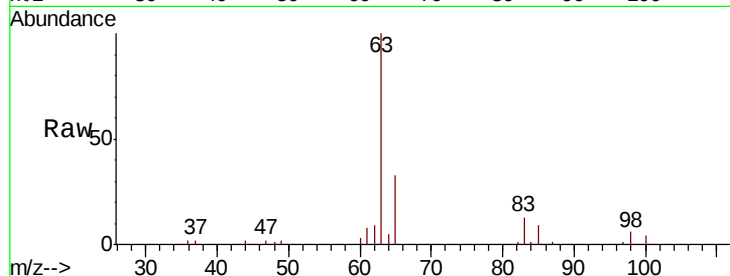
Tot Ion: 63 Resp: 32860

Ion Ratio Lower Upper

63 100

65 33.1 22.3 41.5

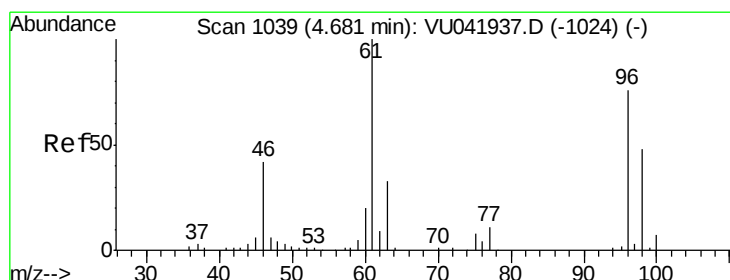
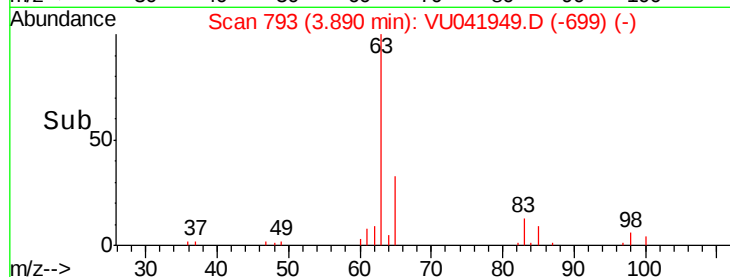
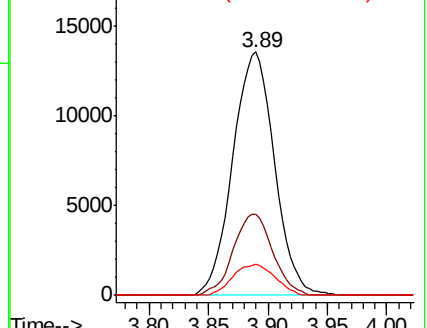
83 12.6 9.0 16.8



Abundance Ion 63.10 (62.80 to 63.80): VU041937.D (-774) (-)

Ion 65.10 (64.80 to 65.80): VU041937.D (-774) (-)

Ion 83.05 (82.75 to 83.75): VU041937.D (-774) (-)



#22

cis-1,2-Dichloroethene

Concen: 0.273 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. 0.00 min

Lab File: VU041949.D

Acq: 12 Jan 2021 02:59

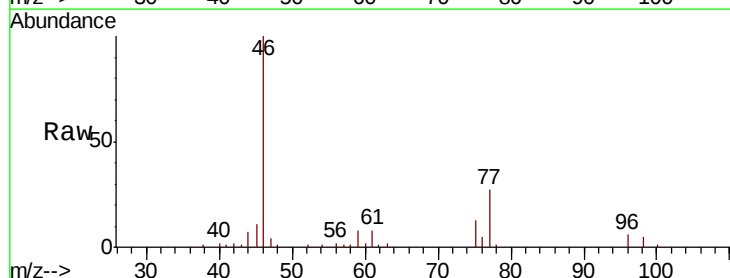
Tgt Ion: 96 Resp: 2319

Ion Ratio Lower Upper

96 100

61 129.8 90.3 167.7

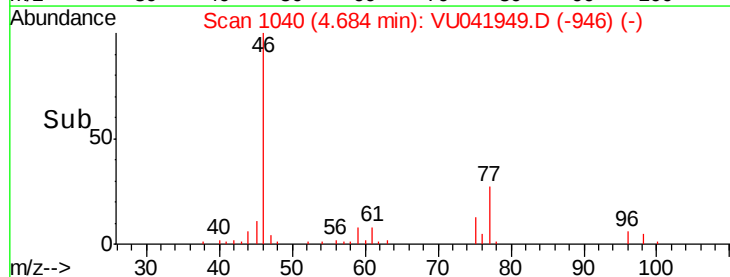
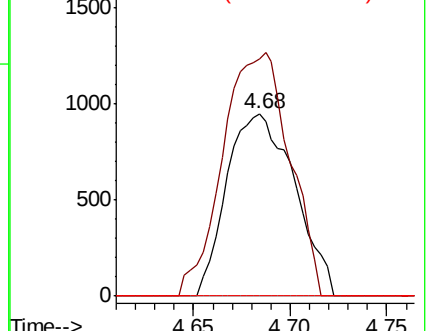
68 0.0 0.0 0.0

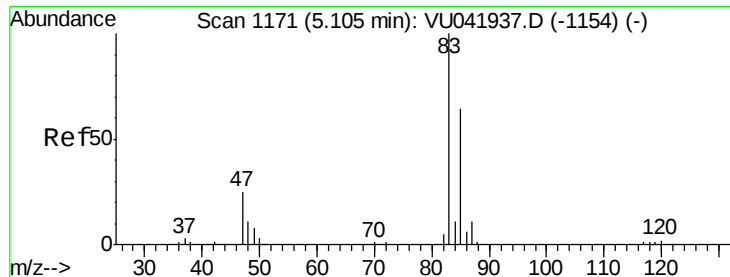


Abundance Ion 96.00 (95.70 to 96.70): VU041937.D (-1024) (-)

Ion 61.05 (60.75 to 61.75): VU041937.D (-1024) (-)

Ion 68.15 (67.85 to 68.85): VU041937.D (-1024) (-)

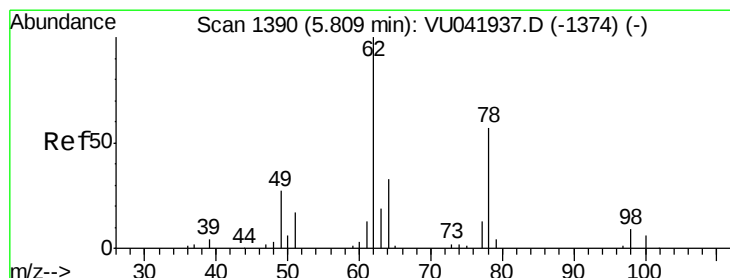
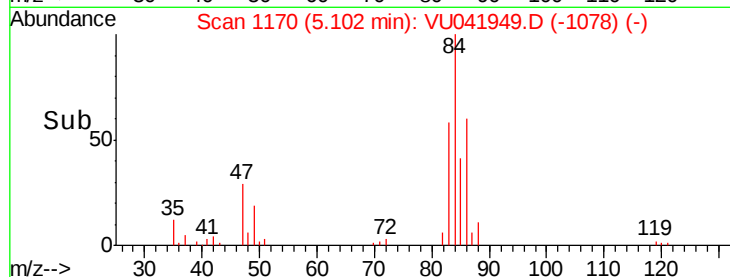
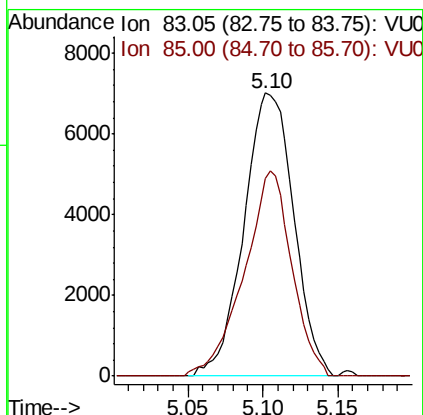
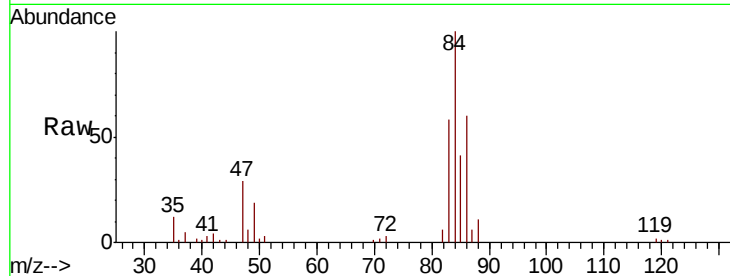




#25
Chloroform
Concen: 1.045 ug/L
RT: 5.10 min Scan# 1170
Delta R.T. -0.00 min
Lab File: VU041949.D
Acq: 12 Jan 2021 02:59

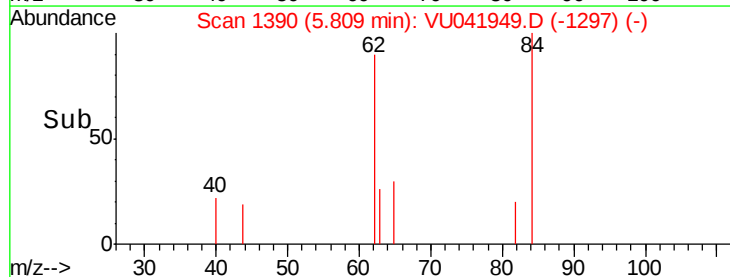
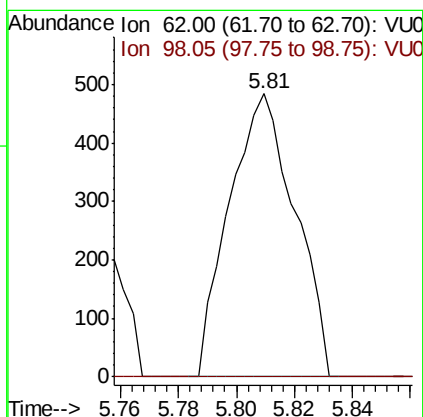
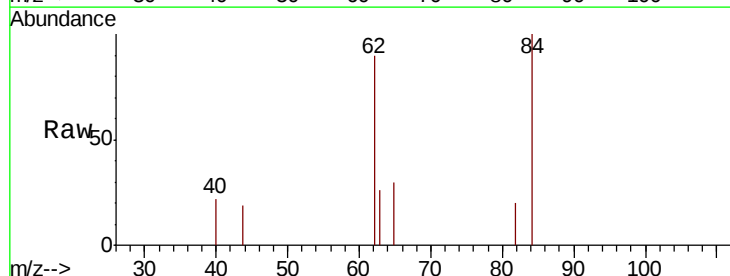
Instrument :
MSVOA_U
ClientSampleId :
BFXK6

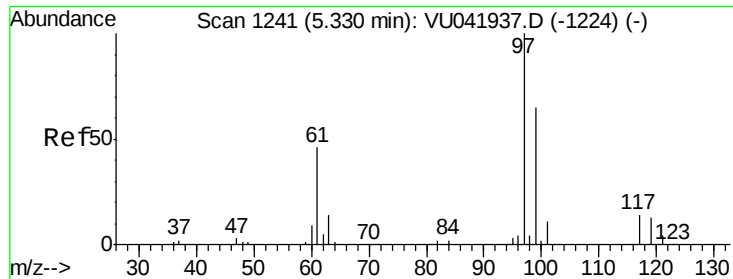
Tot Ion: 83 Resp: 16289
Ion Ratio Lower Upper
83 100
85 69.7 45.1 83.9



#27
1,2-Dichloroethane
Concen: 0.076 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. -0.00 min
Lab File: VU041949.D
Acq: 12 Jan 2021 02:59

Tgt Ion: 62 Resp: 760
Ion Ratio Lower Upper
62 100
98 0.0 7.8 11.8#

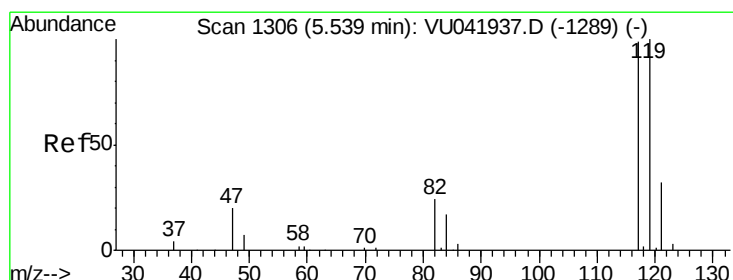
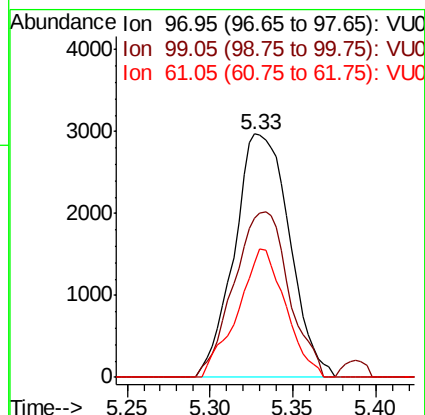
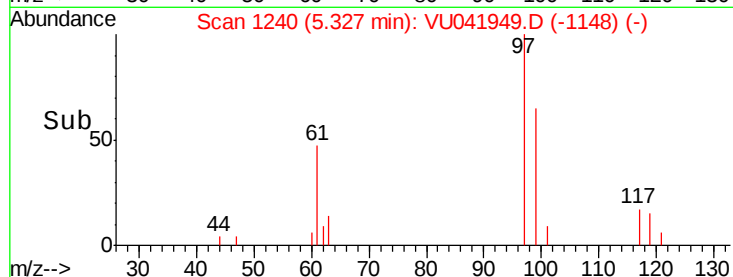
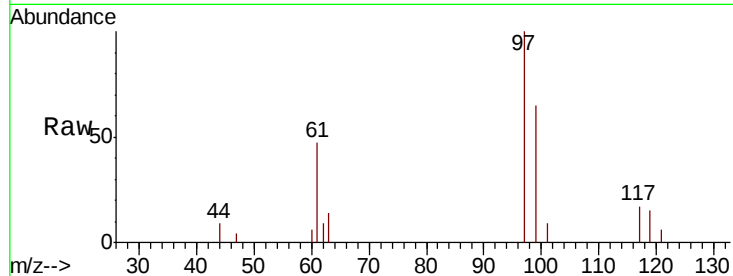




#29
 1,1,1-Trichloroethane
 Concen: 0.513 ug/L
 RT: 5.33 min Scan# 1240
 Delta R.T. -0.00 min
 Lab File: VU041949.D
 Acq: 12 Jan 2021 02:59

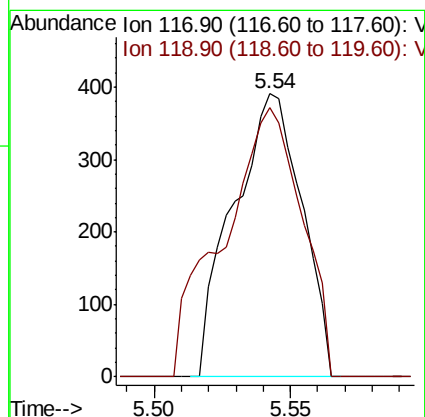
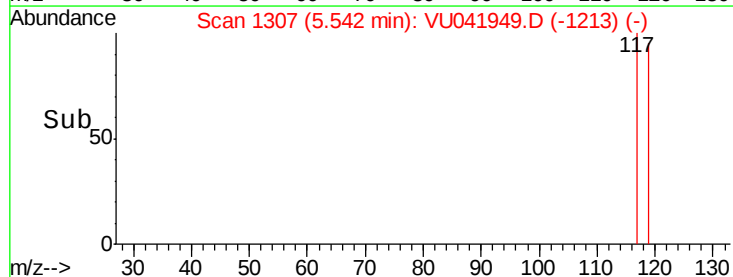
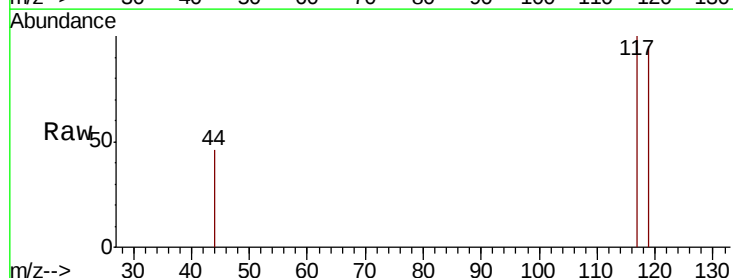
Instrument :
 MSVOA_U
 ClientSampleId :
 BFXK6

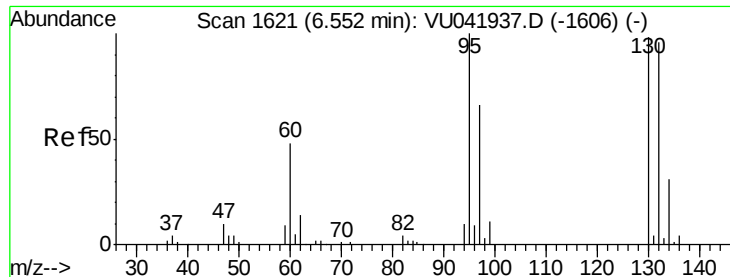
Tot Ion: 97 Resp: 6861
 Ion Ratio Lower Upper
 97 100
 99 67.7 51.4 77.2
 61 46.0 35.3 52.9



#31
 Carbon tetrachloride
 Concen: 0.059 ug/L
 RT: 5.54 min Scan# 1307
 Delta R.T. 0.00 min
 Lab File: VU041949.D
 Acq: 12 Jan 2021 02:59

Tgt Ion: 117 Resp: 680
 Ion Ratio Lower Upper
 117 100
 119 109.6 75.0 112.4

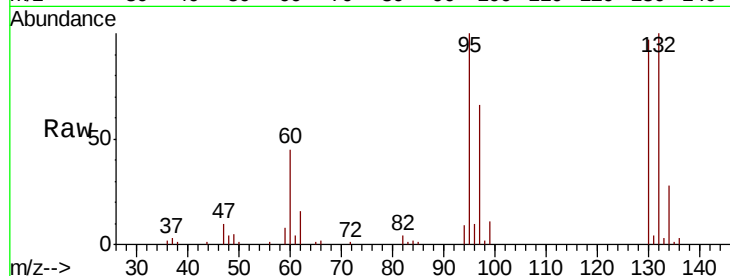




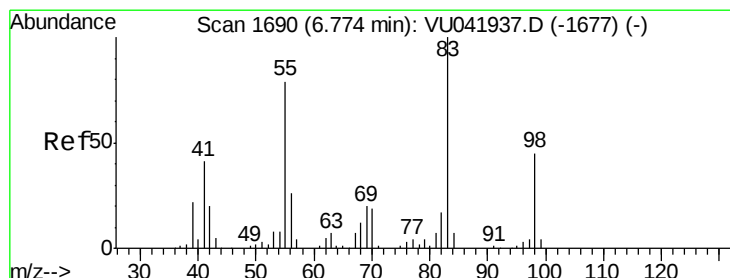
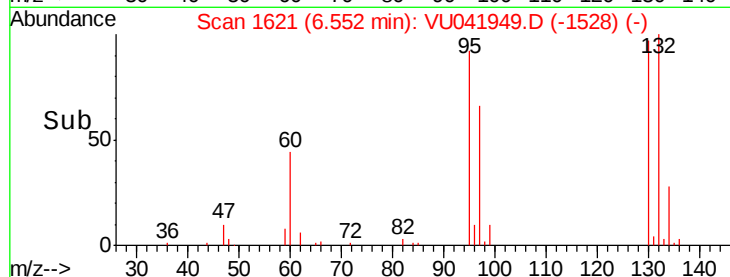
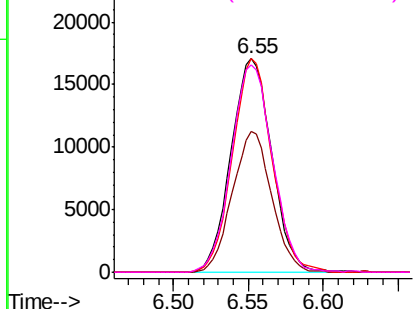
#34
 Trichloroethene
 Concen: 3.736 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. -0.00 min
 Lab File: VU041949.D
 Acq: 12 Jan 2021 02:59

Instrument :
 MSVOA_U
 ClientSampleId :
 BFXK6

Tot Ion: 95 Resp: 32377
 Ion Ratio Lower Upper
 95 100
 97 66.0 45.2 84.0
 132 99.8 68.7 127.5
 130 97.0 68.0 126.4

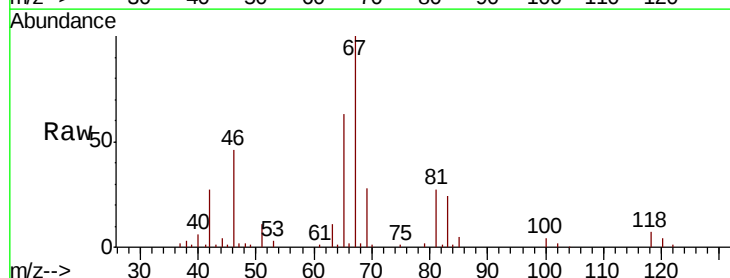


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

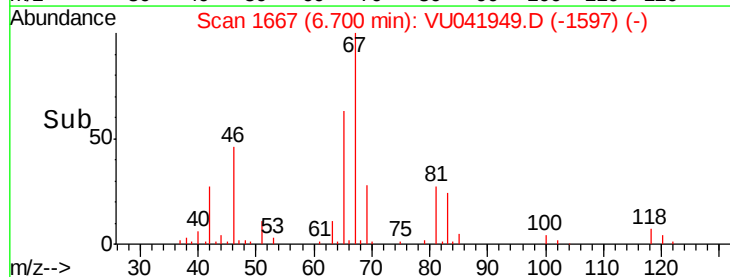
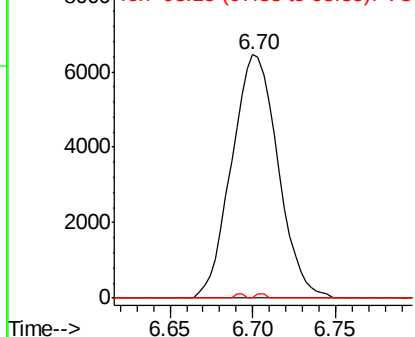


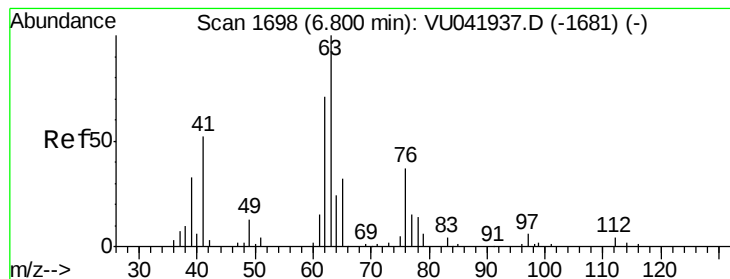
#35
 Methylcyclohexane
 Concen: 0.983 ug/L
 RT: 6.70 min Scan# 1667
 Delta R.T. -0.07 min
 Lab File: VU041949.D
 Acq: 12 Jan 2021 02:59

Tgt Ion: 83 Resp: 12516
 Ion Ratio Lower Upper
 83 100
 55 0.0 64.3 96.5#
 98 0.4 36.6 54.8#



Abundance Ion 83.15 (82.85 to 83.85): VU0
 Ion 55.10 (54.80 to 55.80): VU0
 Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 0.715 ug/L

RT: 6.70 min Scan# 1666

Delta R.T. -0.10 min

Lab File: VU041949.D

Acq: 12 Jan 2021 02:59

Instrument :

MSVOA_U

ClientSampled :

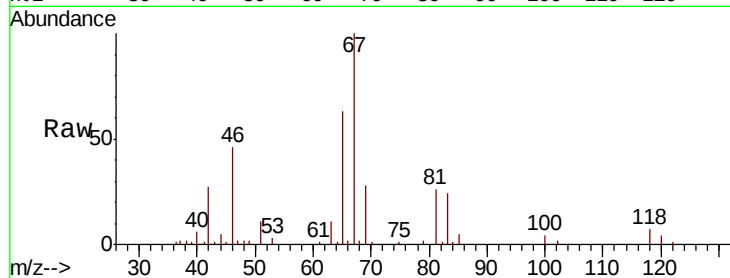
BFXK6

Tot Ion: 63 Resp: 5889

Ion Ratio Lower Upper

63 100

112 0.0 3.3 4.9#



Abundance Ion 63.10 (62.80 to 63.80): VU041937.D (-1681) (-)

Ion 112.10 (111.80 to 112.80): VU041937.D (-1681) (-)

6.70

3000

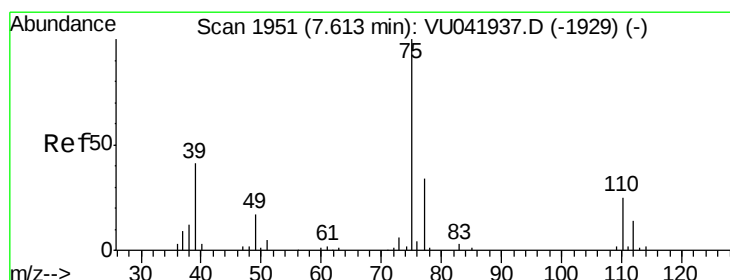
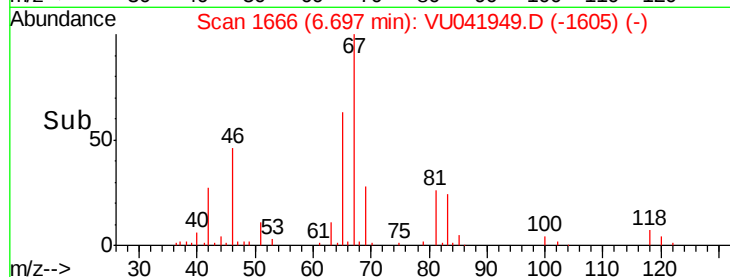
2000

1000

0

6.65 6.70 6.75

Time-->



#39

cis-1,3-Dichloropropene

Concen: 0.103 ug/L

RT: 7.57 min Scan# 1937

Delta R.T. -0.05 min

Lab File: VU041949.D

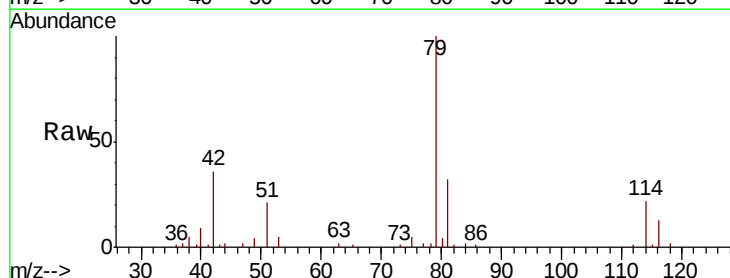
Acq: 12 Jan 2021 02:59

Tgt Ion: 75 Resp: 1254

Ion Ratio Lower Upper

75 100

77 43.6 21.5 39.9#



Abundance Ion 75.05 (74.75 to 75.75): VU041937.D (-1929) (-)

Ion 77.05 (76.75 to 77.75): VU041937.D (-1929) (-)

7.57

1000

800

600

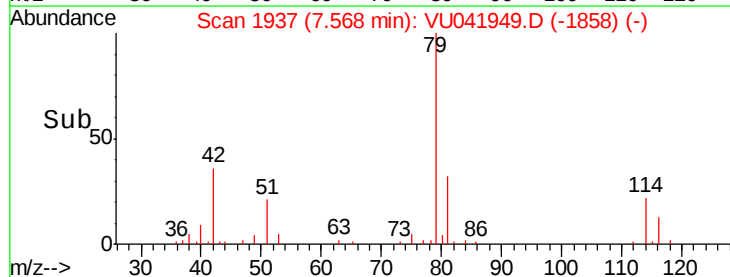
400

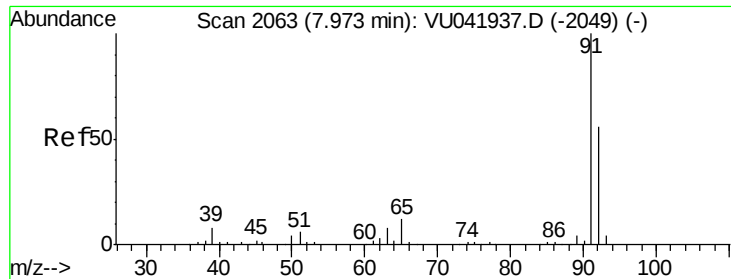
200

0

7.55 7.60

Time-->





#42

Toluene

Concen: 0.053 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VU041949.D

Acq: 12 Jan 2021 02:59

Instrument :

MSVOA_U

ClientSampleId :

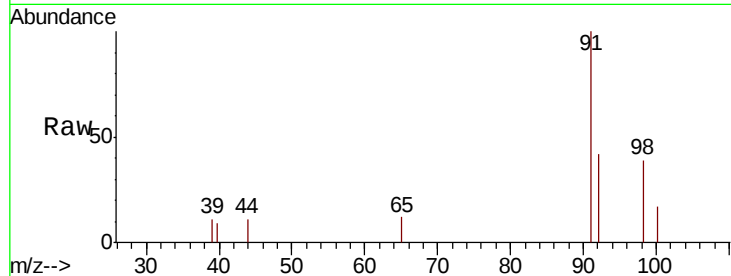
BFXK6

Tot Ion: 91 Resp: 1810

Ion Ratio Lower Upper

91 100

92 42.3 41.2 76.6



Abundance Ion 91.15 (90.85 to 91.85): VU041937.D (-2049) (-)

Ion 92.15 (91.85 to 92.85): VU041937.D (-2049) (-)

7.97

1200

1000

800

600

400

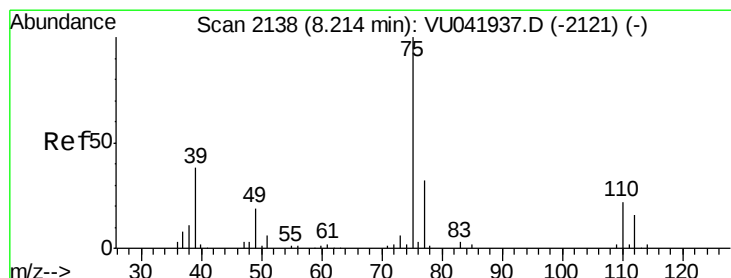
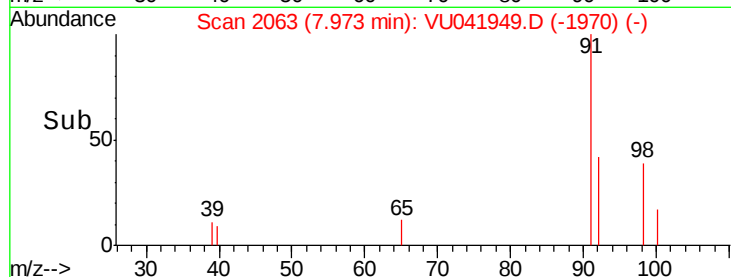
200

0

7.95

8.00

Time-->



#44

trans-1,3-Dichloropropene

Concen: 0.069 ug/L

RT: 8.18 min Scan# 2128

Delta R.T. -0.03 min

Lab File: VU041949.D

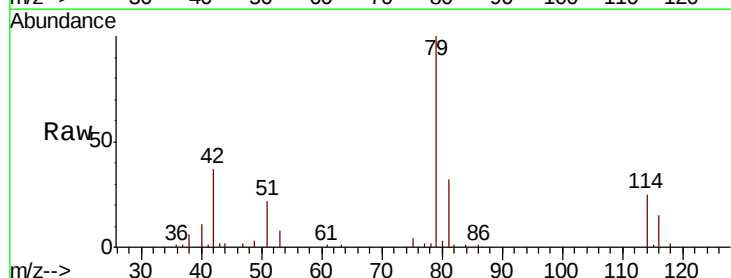
Acq: 12 Jan 2021 02:59

Tgt Ion: 75 Resp: 737

Ion Ratio Lower Upper

75 100

77 61.0 23.7 44.1#



Abundance Ion 75.05 (74.75 to 75.75): VU041937.D (-2121) (-)

Ion 77.05 (76.75 to 77.75): VU041937.D (-2121) (-)

8.18

500

400

300

200

100

0

8.14

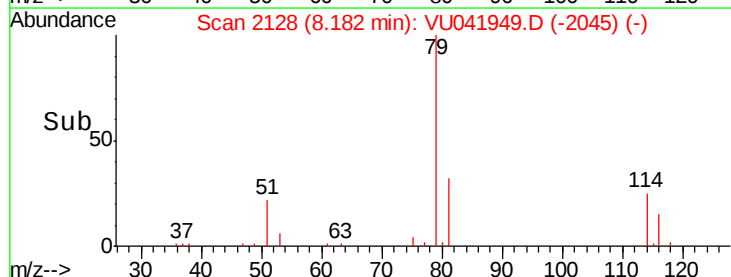
8.16

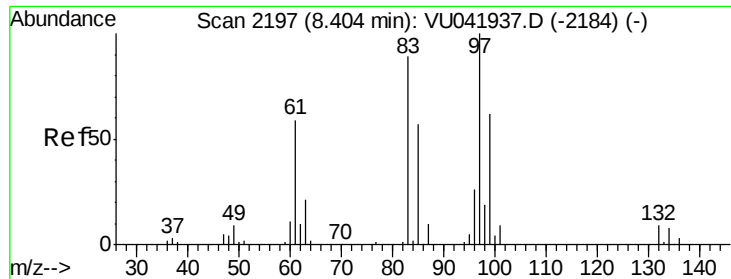
8.18

8.20

8.22

Time-->

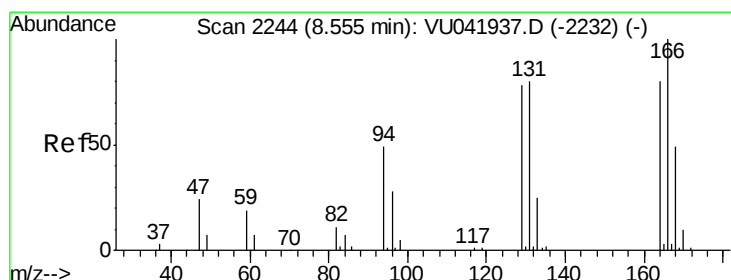
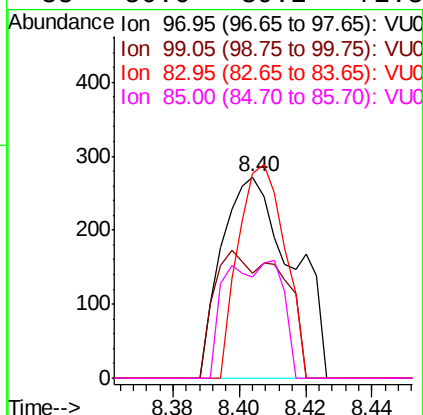
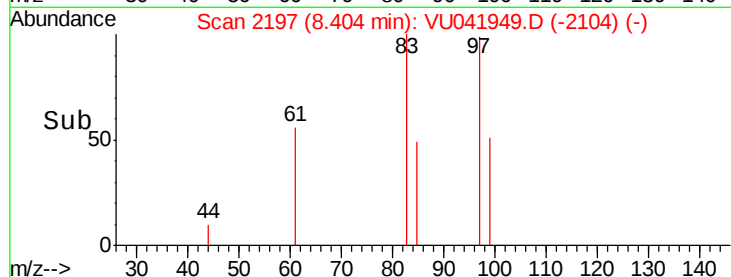
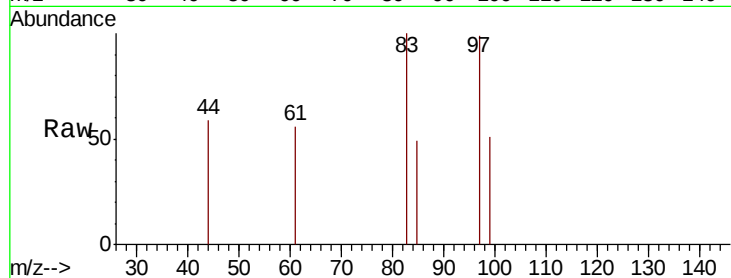




#45
1,1,2-Trichloroethane
Concen: 0.064 ug/L
RT: 8.40 min Scan# 2197
Delta R.T. -0.00 min
Lab File: VU041949.D
Acq: 12 Jan 2021 02:59

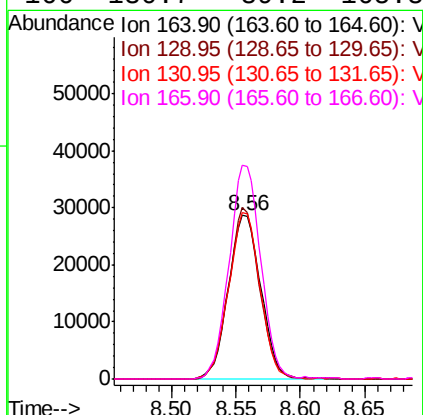
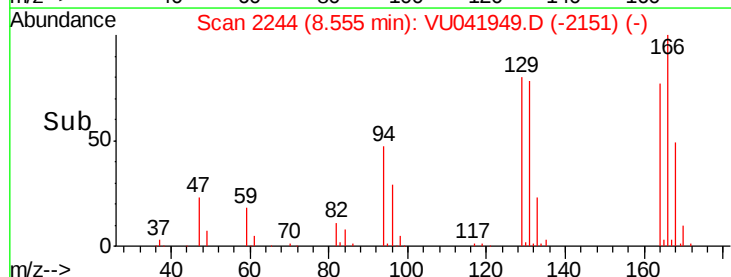
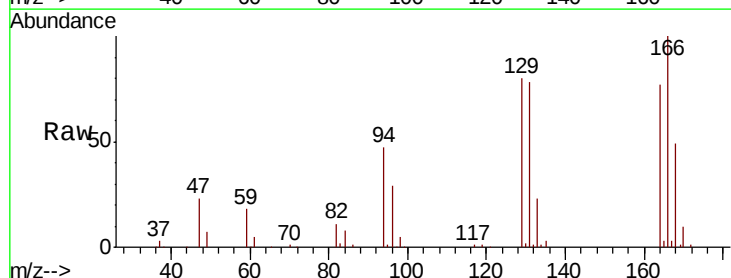
Instrument :
MSVOA_U
ClientSampleId :
BFXK6

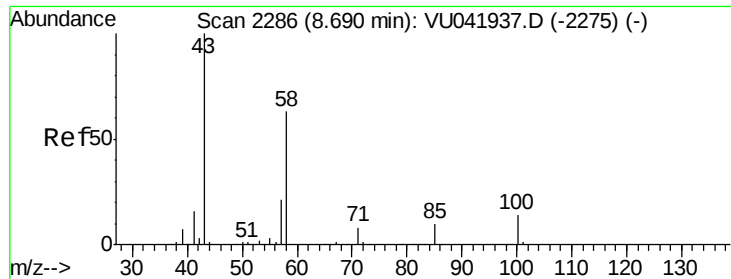
Tot Ion:	97	Resp:	402
Ion	Ratio	Lower	Upper
97	100		
99	52.2	45.1	83.9
83	101.5	63.3	117.7
85	50.0	39.2	72.8



#47
Tetrachloroethene
Concen: 8.350 ug/L
RT: 8.56 min Scan# 2244
Delta R.T. -0.00 min
Lab File: VU041949.D
Acq: 12 Jan 2021 02:59

Tgt Ion:	164	Resp:	50352
Ion	Ratio	Lower	Upper
164	100		
129	104.7	69.2	128.6
131	101.5	69.7	129.5
166	130.7	89.2	165.8

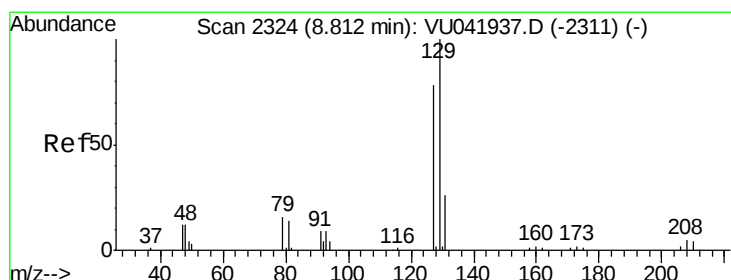
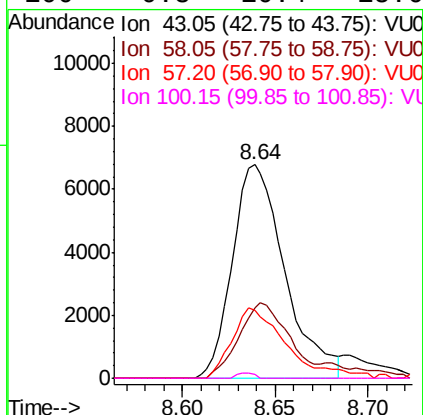
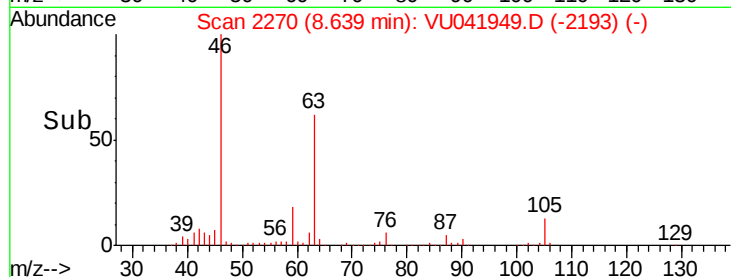
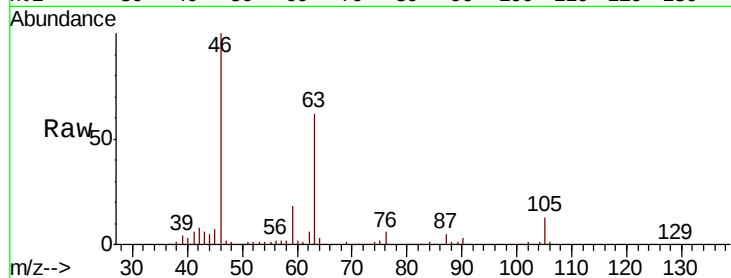




#48
2-Hexanone
Concen: 3.459 ug/L
RT: 8.64 min Scan# 2270
Delta R.T. -0.05 min
Lab File: VU041949.D
Acq: 12 Jan 2021 02:59

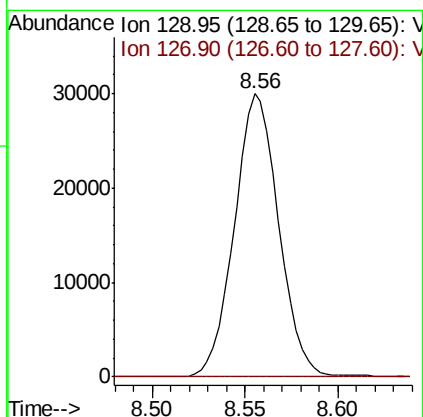
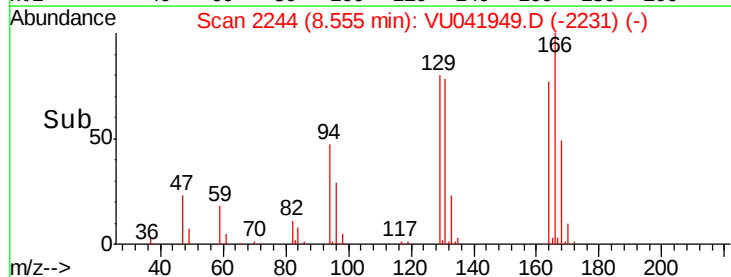
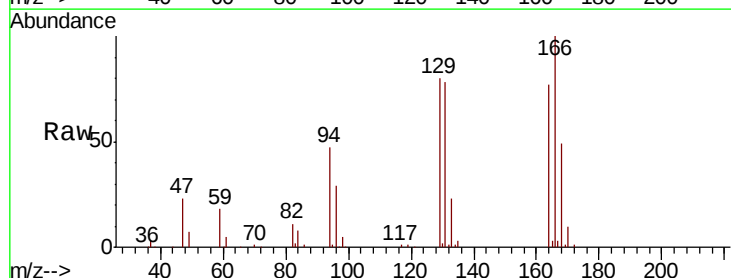
Instrument :
MSVOA_U
ClientSampled :
BFXK6

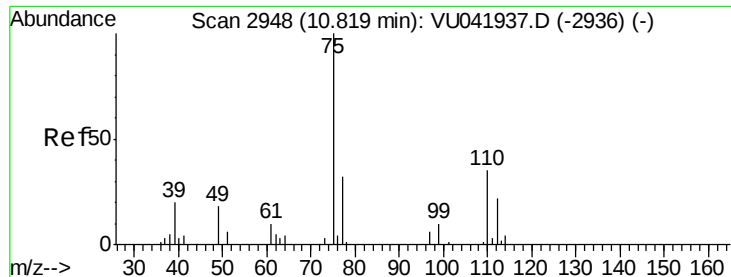
Tot Ion: 43 Resp: 13327
Ion Ratio Lower Upper
43 100
58 33.7 47.6 71.4#
57 34.0 17.1 25.7#
100 0.8 10.4 15.6#



#49
Dibromochloromethane
Concen: 6.397 ug/L
RT: 8.56 min Scan# 2244
Delta R.T. -0.26 min
Lab File: VU041949.D
Acq: 12 Jan 2021 02:59

Tgt Ion: 129 Resp: 49137
Ion Ratio Lower Upper
129 100
127 0.0 54.9 101.9#





#59

1,2,3-Trichloropropane

Concen: 0.745 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.99 min

Lab File: VU041949.D

Acq: 12 Jan 2021 02:59

Instrument :

MSVOA_U

ClientSampleId :

BFXK6

Tot Ion: 75 Resp: 4482

Ion Ratio Lower Upper

75 100

77 36.5 27.0 40.4

