

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011121\
 Data File : VU041932.D
 Acq On : 11 Jan 2021 19:54
 Operator : SY/MD
 Sample : M1026-02
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFXJ9

Quant Time: Jan 12 03:29:10 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR011121WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Jan 12 03:17:19 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	119720	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	111027	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	48313	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	45507	4.51	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	90.20%
7) Chloroethane-d5	1.92	69	45459	4.86	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	97.20%
11) 1,1-Dichloroethene-d2	2.58	63	64968	3.40	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	68.00%
20) 2-Butanone-d5	4.65	46	155563	55.47	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	110.94%
24) Chloroform-d	5.08	84	83195	4.52	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.40%
26) 1,2-Dichloroethane-d4	5.72	65	50698	5.23	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.60%
32) Benzene-d6	5.74	84	165629	5.05	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.00%
36) 1,2-Dichloropropane-d6	6.70	67	53715	5.21	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	104.20%
41) Toluene-d8	7.90	98	134704	4.53	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.60%
43) trans-1,3-Dichloropropene-	8.18	79	20649	4.80	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	96.00%
46) 2-Hexanone-d5	8.64	63	123560	56.78	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	113.56%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	47778	5.24	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	104.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	49904	5.46	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	109.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	1536	0.133 ug/L	98
3) Chloromethane	1.53	50	604	0.048 ug/L	87
8) Chloroethane	1.93	64	533	0.064 ug/L #	43
9) Trichlorofluoromethane	2.15	101	37478	2.124 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	1469	0.153 ug/L #	63
12) 1,1-Dichloroethene	2.58	96	1193	0.128 ug/L #	1
13) Acetone	2.83	43	1266	0.695 ug/L	90
16) Methylene chloride	3.06	84	2226	0.189 ug/L	94
17) Methyl tert-butyl Ether	3.38	73	12782	0.570 ug/L	97
18) trans-1,2-Dichloroethene	3.37	96	4672	0.515 ug/L	94
19) 1,1-Dichloroethane	3.89	63	2728	0.160 ug/L	96
22) cis-1,2-Dichloroethene	4.69	96	17841	1.841 ug/L	87
25) Chloroform	5.10	83	2298	0.129 ug/L #	75
29) 1,1,1-Trichloroethane	5.33	97	3077	0.212 ug/L	91
34) Trichloroethene	6.55	95	88274	9.398 ug/L	97
35) Methylcyclohexane	6.70	83	12041	0.872 ug/L #	18
37) 1,2-Dichloropropane	6.70	63	5674	0.636 ug/L #	88

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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Jan 12 03:17:19 2021
Response via : Initial Calibration

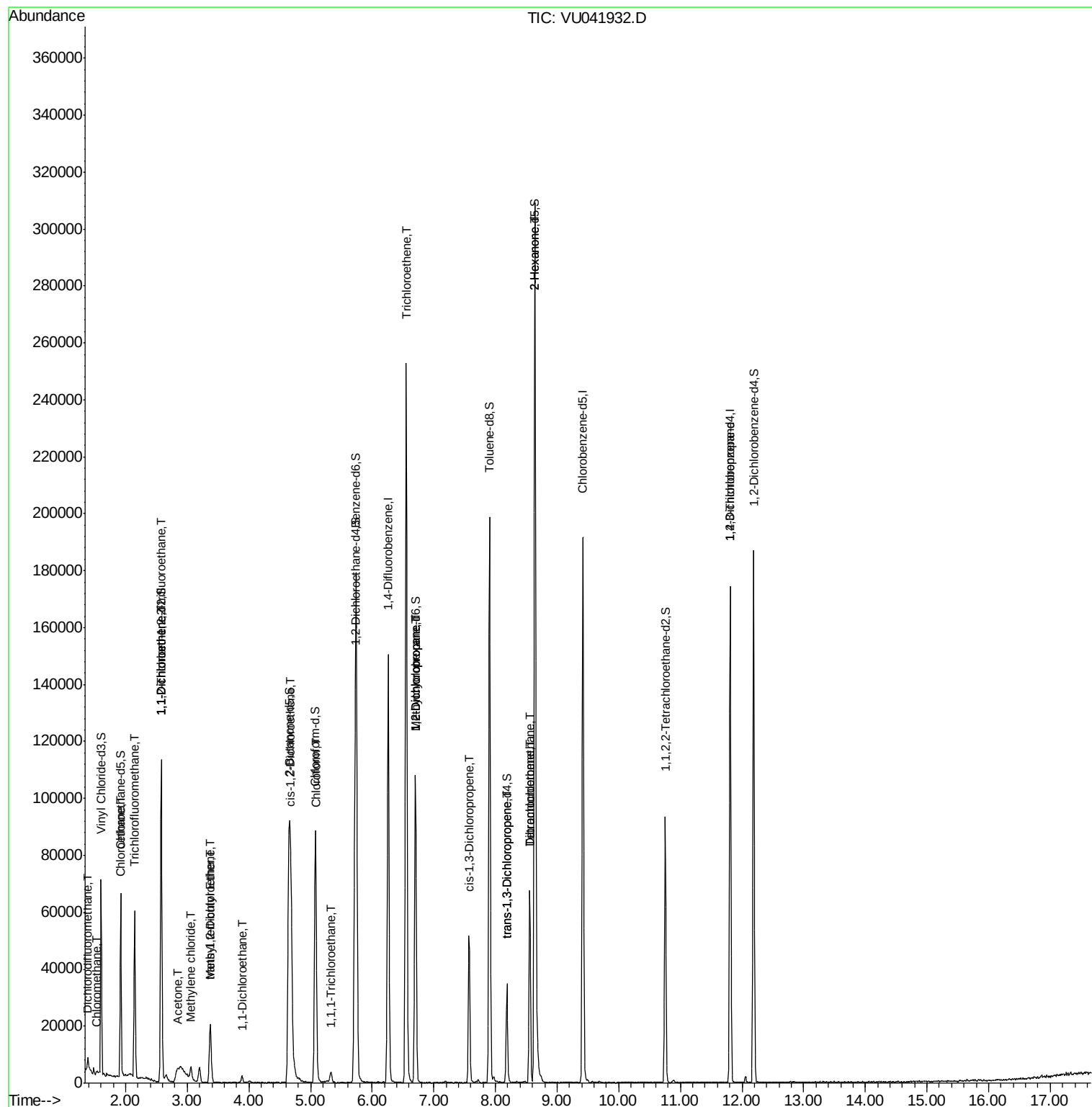
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) cis-1,3-Dichloropropene	7.58	75	1140	0.087	ug/L #	43
44) trans-1,3-Dichloropropene	8.19	75	715	0.061	ug/L	99
47) Tetrachloroethene	8.56	164	15219	2.328	ug/L	97
48) 2-Hexanone	8.64	43	14014	3.356	ug/L #	67
49) Dibromochloromethane	8.56	129	14878	1.787	ug/L #	10
59) 1,2,3-Trichloropropane	11.81	75	5424	0.832	ug/L	91

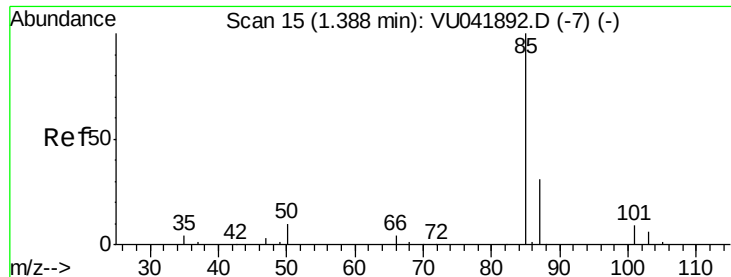
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.133 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU041932.D

Acq: 11 Jan 2021 19:54

Instrument :

MSVOA_U

ClientSampleId :

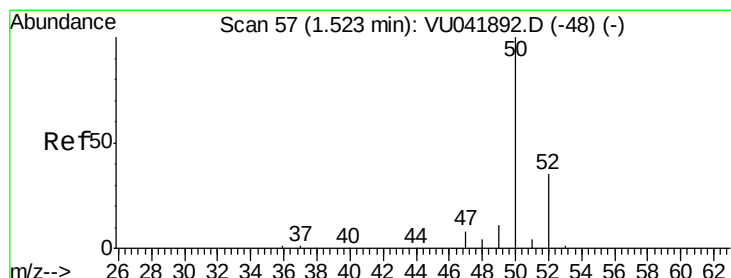
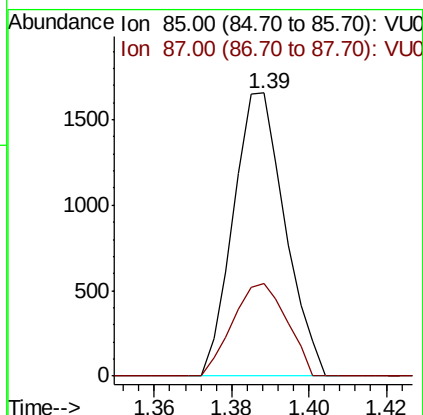
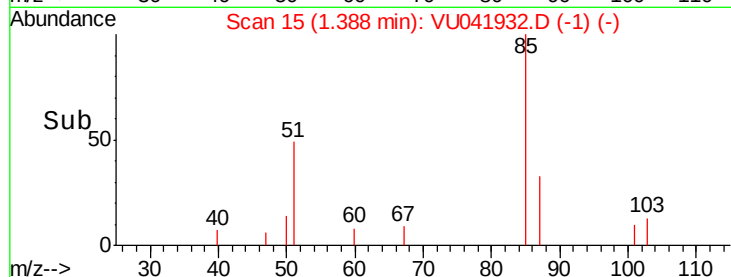
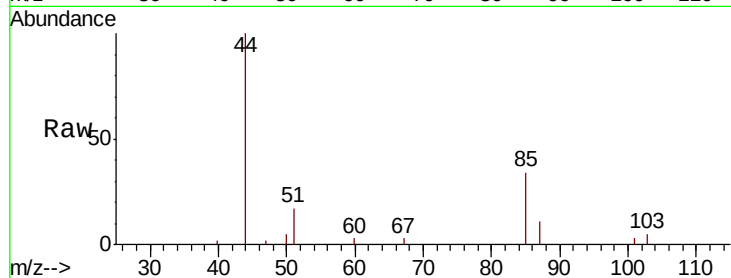
BFXJ9

Tot Ion: 85 Resp: 1536

Ion Ratio Lower Upper

85 100

87 34.2 26.3 39.5



#3

Chloromethane

Concen: 0.048 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU041932.D

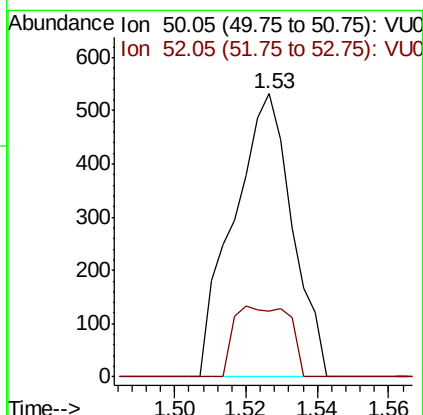
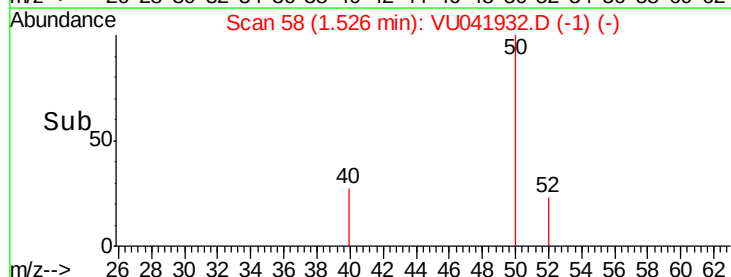
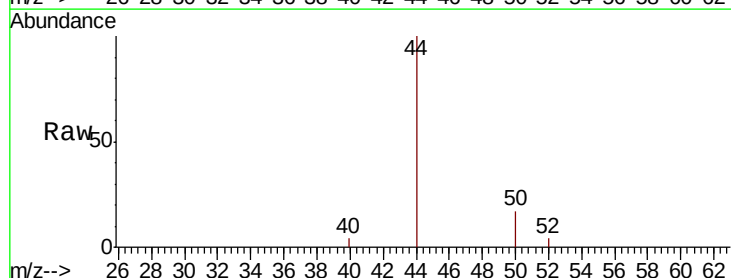
Acq: 11 Jan 2021 19:54

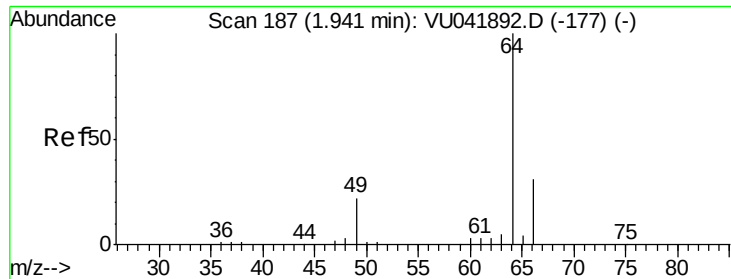
Tgt Ion: 50 Resp: 604

Ion Ratio Lower Upper

50 100

52 23.3 21.4 39.8





#8

Chloroethane

Concen: 0.064 ug/L

RT: 1.93 min Scan# 185

Delta R.T. -0.01 min

Lab File: VU041932.D

Acq: 11 Jan 2021 19:54

Instrument :

MSVOA_U

ClientSampleId :

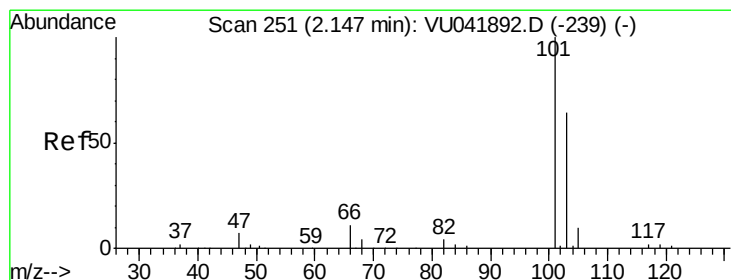
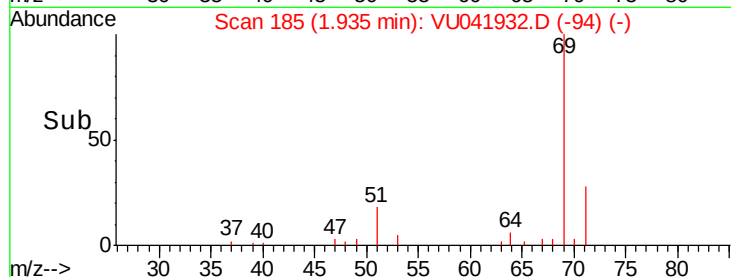
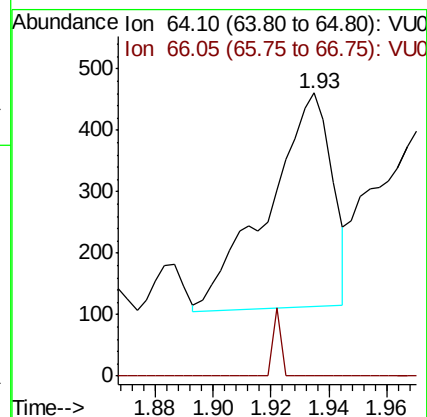
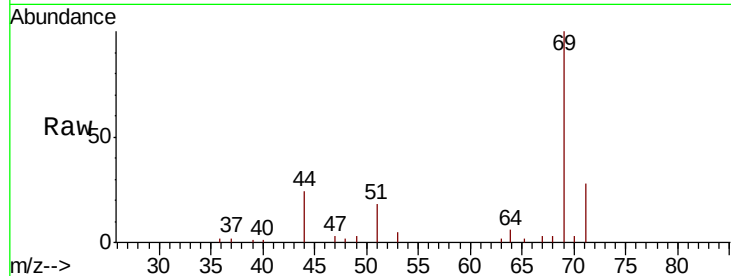
BFXJ9

Tot Ion: 64 Resp: 533

Ion Ratio Lower Upper

64 100

66 0.0 22.1 41.1#



#9

Trichlorofluoromethane

Concen: 2.124 ug/L

RT: 2.15 min Scan# 251

Delta R.T. 0.00 min

Lab File: VU041932.D

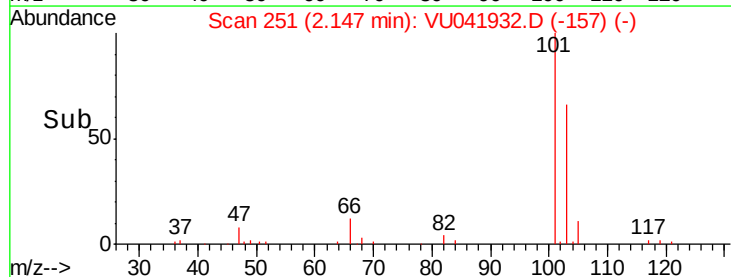
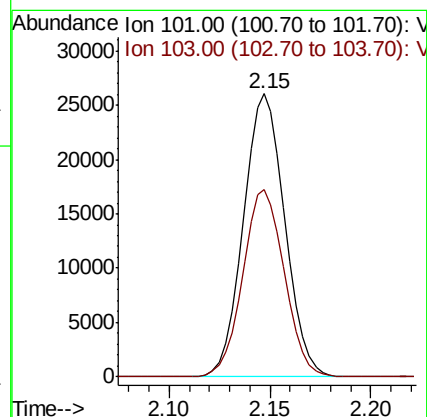
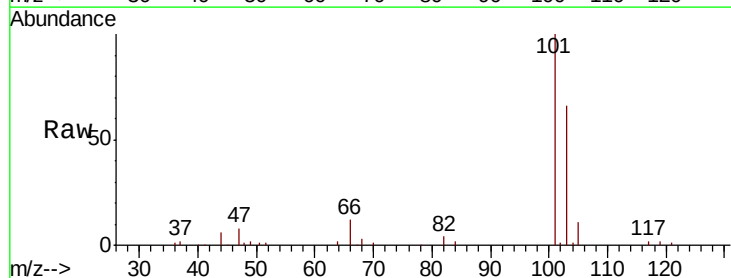
Acq: 11 Jan 2021 19:54

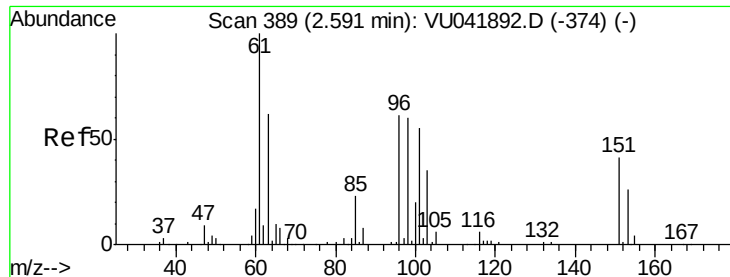
Tgt Ion:101 Resp: 37478

Ion Ratio Lower Upper

101 100

103 66.2 51.3 76.9





#10

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

Concen: 0.153 ug/L

RT: 2.58 min Scan# 387

Delta R.T. -0.01 min

Lab File: VU041932.D

Acq: 11 Jan 2021 19:54

Instrument :

MSVOA_U

ClientSampleId :

BFXJ9

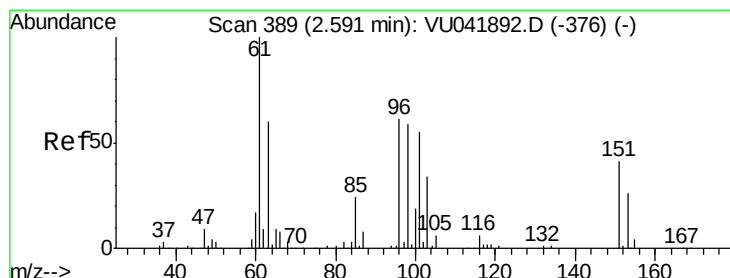
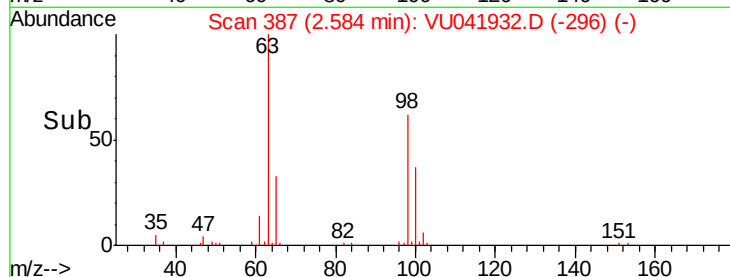
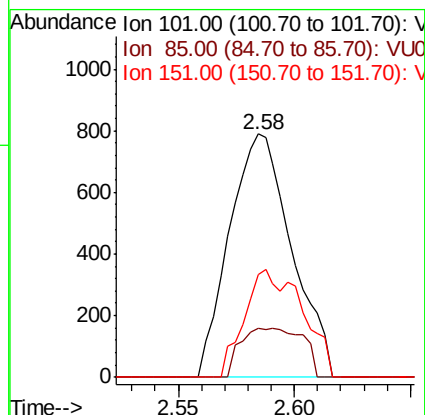
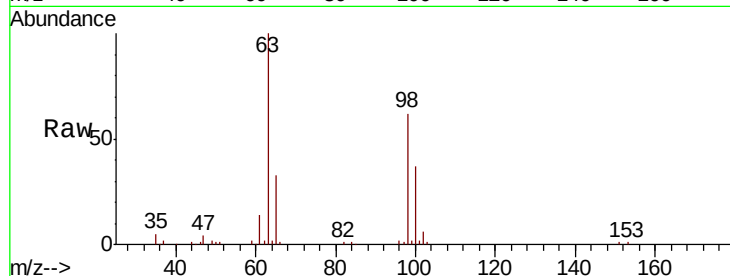
Tot Ion:101 Resp: 1469

Ion Ratio Lower Upper

101 100

85 20.1 35.1 52.7#

151 41.3 58.2 87.2#



#12

1,1-Dichloroethene

Concen: 0.128 ug/L

RT: 2.58 min Scan# 387

Delta R.T. -0.00 min

Lab File: VU041932.D

Acq: 11 Jan 2021 19:54

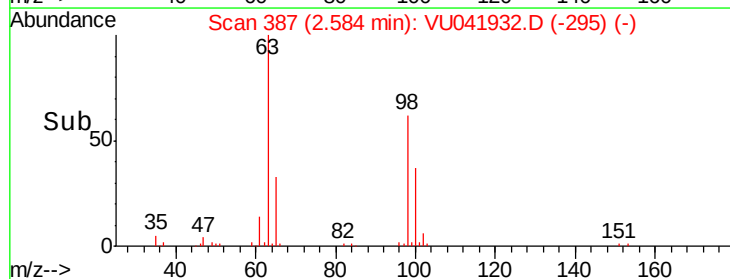
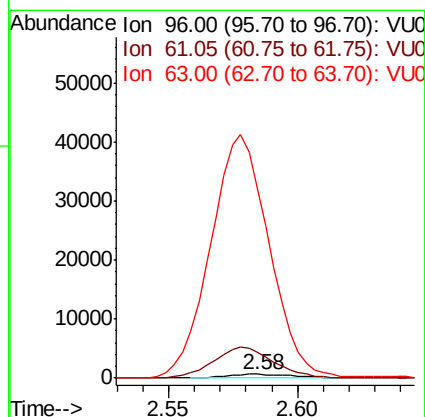
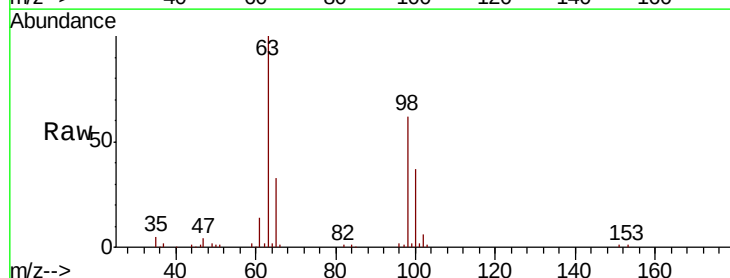
Tgt Ion: 96 Resp: 1193

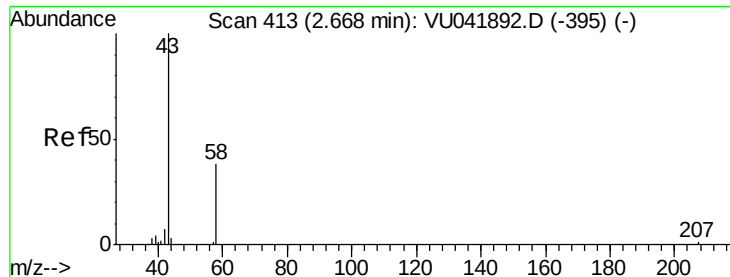
Ion Ratio Lower Upper

96 100

61 628.4 123.5 229.4#

63 4637.2 93.5 173.7#





#13

Acetone

Concen: 0.695 ug/L

RT: 2.83 min Scan# 464

Delta R.T. 0.17 min

Lab File: VU041932.D

Acq: 11 Jan 2021 19:54

Instrument :

MSVOA_U

ClientSampleId :

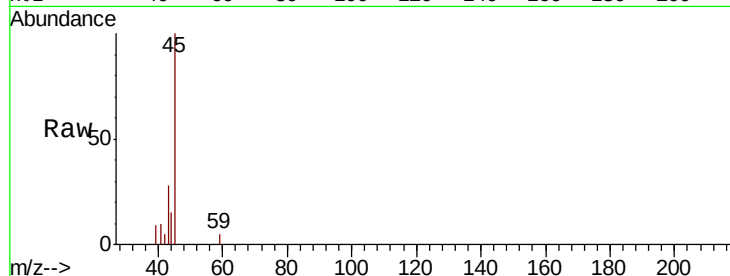
BFXJ9

Tot Ion: 43 Resp: 1266

Ion Ratio Lower Upper

43 100

58 8.0 0.0 23.6



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

1000

800

600

400

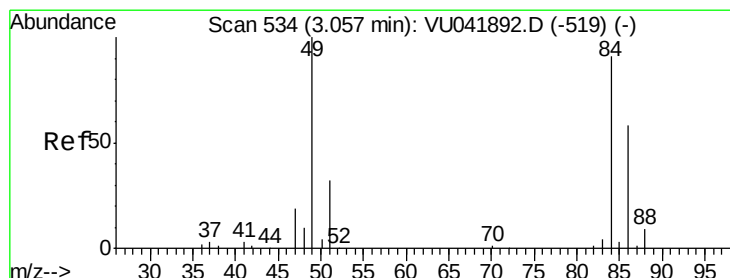
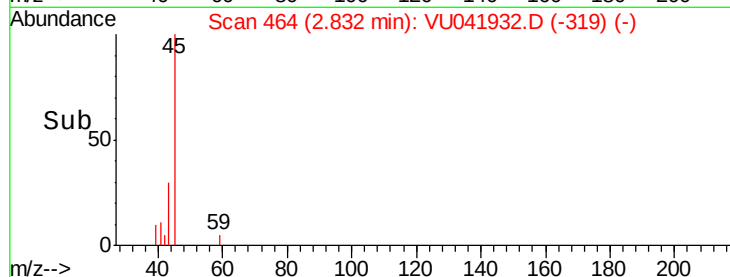
200

0

2.80

2.85

Time-->



#16

Methylene chloride

Concen: 0.189 ug/L

RT: 3.06 min Scan# 534

Delta R.T. -0.00 min

Lab File: VU041932.D

Acq: 11 Jan 2021 19:54

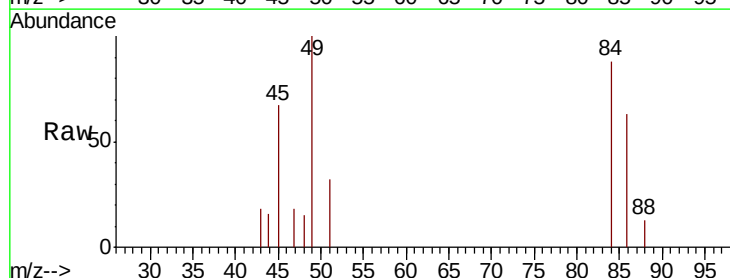
Tgt Ion: 84 Resp: 2226

Ion Ratio Lower Upper

84 100

86 71.6 43.5 80.7

49 113.9 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

1500

1000

500

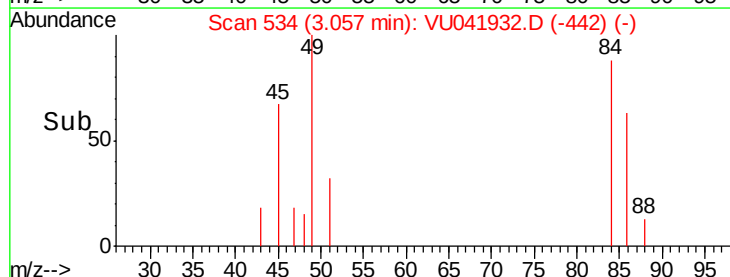
0

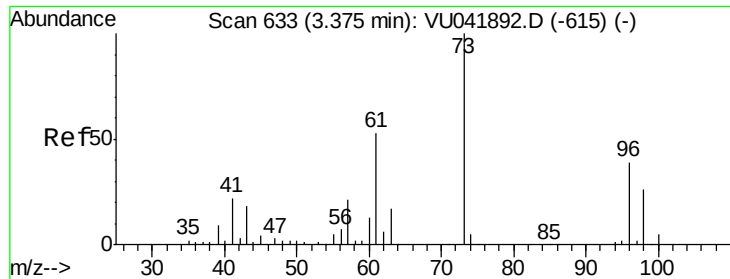
3.00

3.05

3.10

Time-->

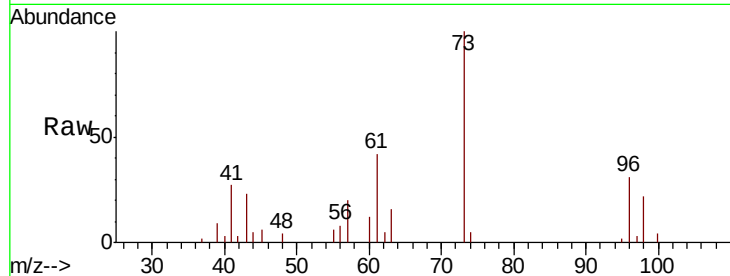




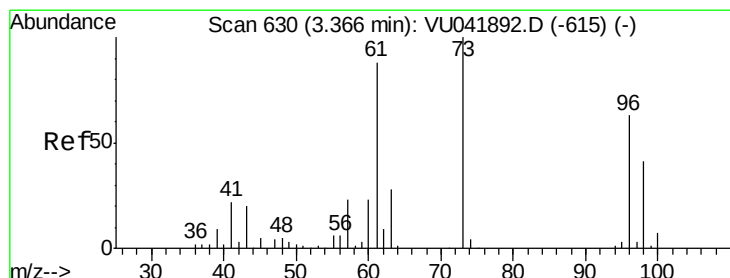
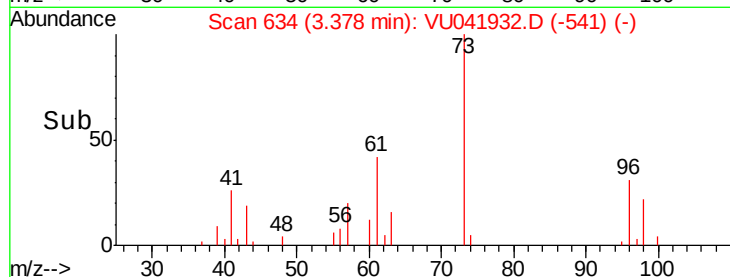
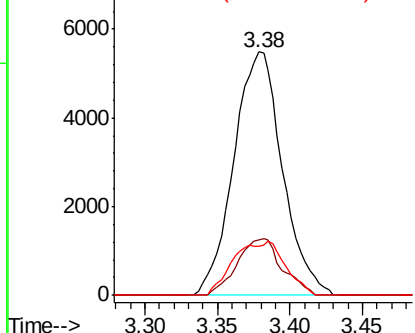
#17
Methyl tert-butyl Ether
Concen: 0.570 ug/L
RT: 3.38 min Scan# 634
Delta R.T. -0.00 min
Lab File: VU041932.D
Acq: 11 Jan 2021 19:54

Instrument :
MSVOA_U
ClientSampleId :
BFXJ9

Tot Ion: 73 Resp: 12782
Ion Ratio Lower Upper
73 100
43 21.5 15.8 23.8
57 23.7 18.3 27.5

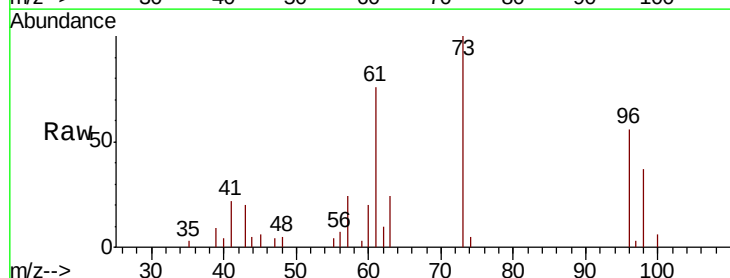


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

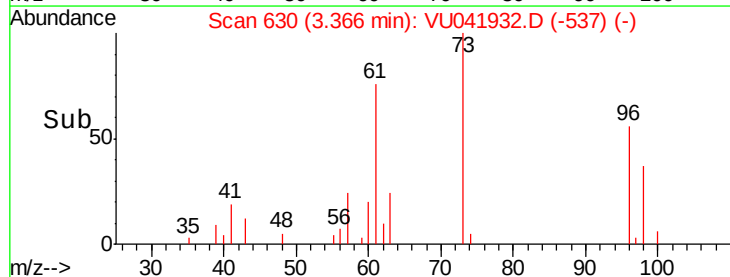
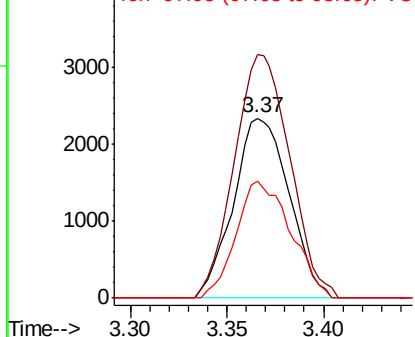


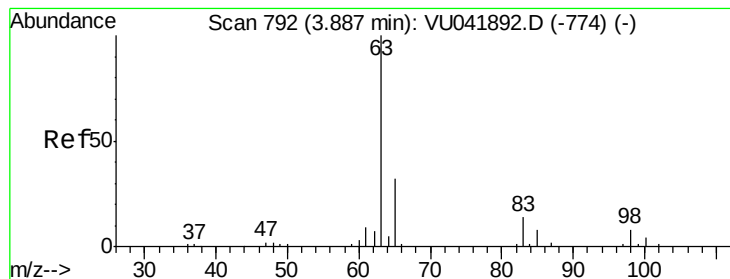
#18
trans-1,2-Dichloroethene
Concen: 0.515 ug/L
RT: 3.37 min Scan# 630
Delta R.T. -0.00 min
Lab File: VU041932.D
Acq: 11 Jan 2021 19:54

Tgt Ion: 96 Resp: 4672
Ion Ratio Lower Upper
96 100
61 135.1 100.7 187.1
98 65.2 43.0 80.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0





#19

1,1-Dichloroethane

Concen: 0.160 ug/L

RT: 3.89 min Scan# 792

Delta R.T. 0.00 min

Lab File: VU041932.D

Acq: 11 Jan 2021 19:54

Instrument :

MSVOA_U

ClientSampleId :

BFXJ9

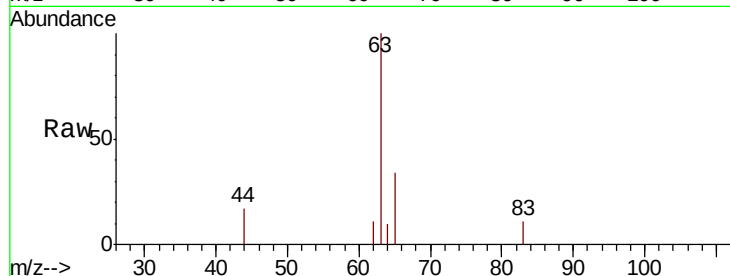
Tot Ion: 63 Resp: 2728

Ion Ratio Lower Upper

63 100

65 34.1 22.3 41.5

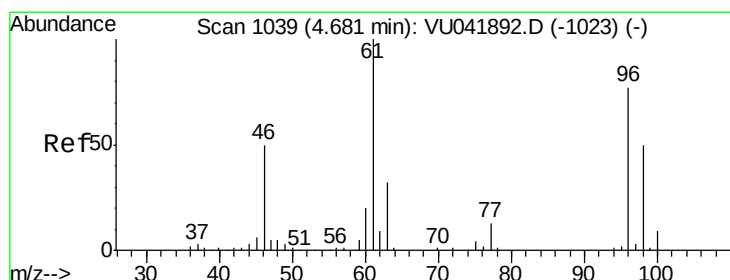
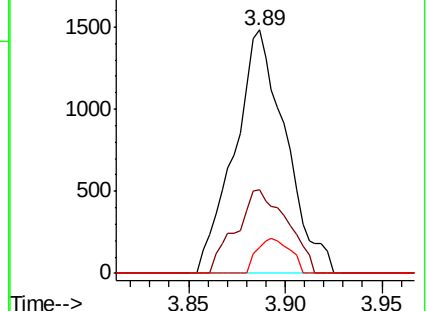
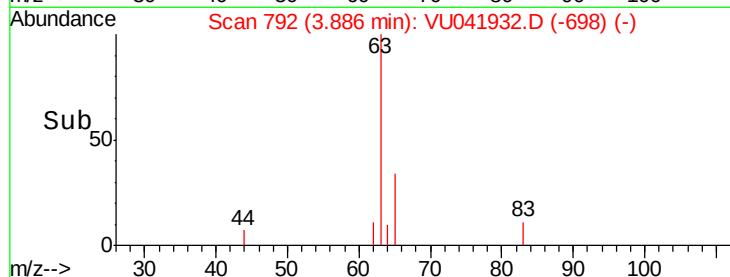
83 10.8 9.0 16.8



Abundance Ion 63.10 (62.80 to 63.80): VU041932.D (-698) (-)

Ion 65.10 (64.80 to 65.80): VU041932.D (-698) (-)

Ion 83.05 (82.75 to 83.75): VU041932.D (-698) (-)



#22

cis-1,2-Dichloroethene

Concen: 1.841 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU041932.D

Acq: 11 Jan 2021 19:54

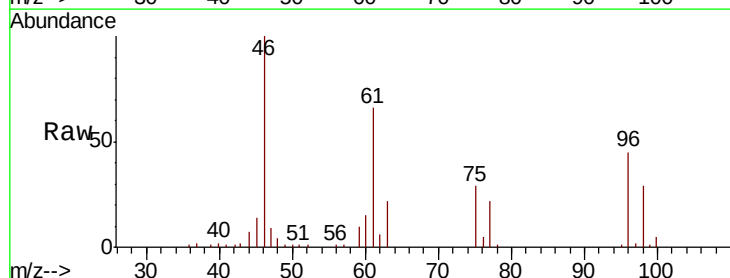
Tgt Ion: 96 Resp: 17841

Ion Ratio Lower Upper

96 100

61 144.2 90.3 167.7

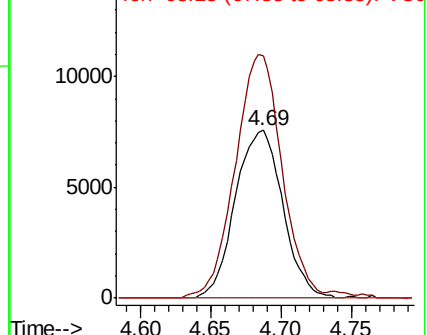
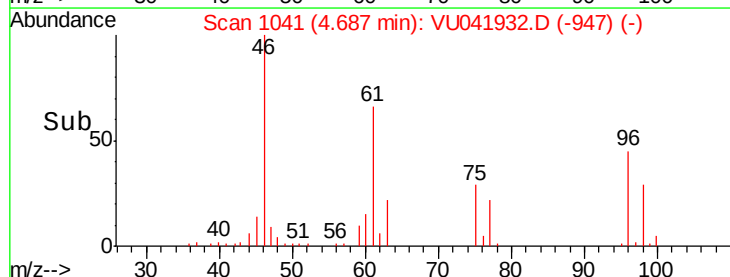
68 0.0 0.0 0.0

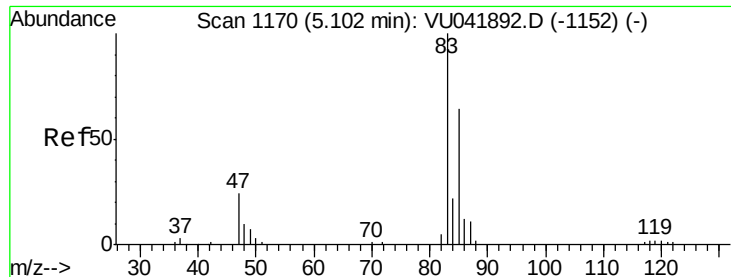


Abundance Ion 96.00 (95.70 to 96.70): VU041932.D (-947) (-)

Ion 61.05 (60.75 to 61.75): VU041932.D (-947) (-)

Ion 68.15 (67.85 to 68.85): VU041932.D (-947) (-)

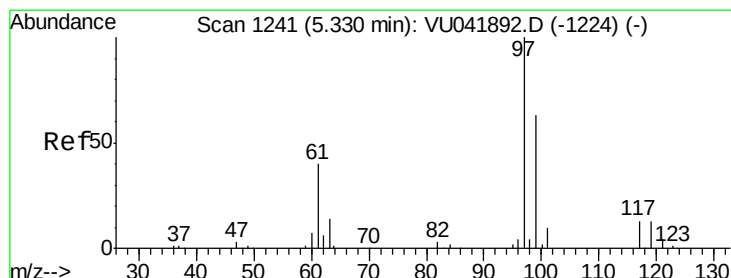
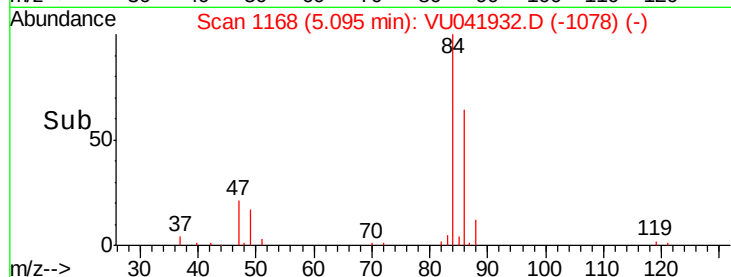
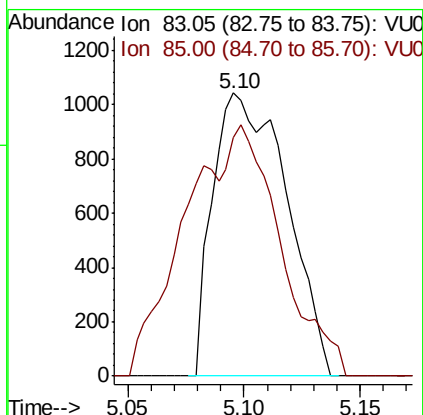
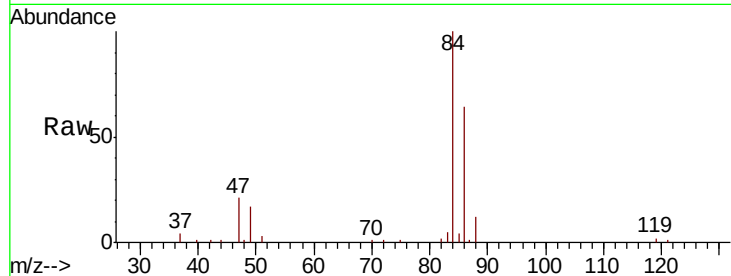




#25
Chloroform
Concen: 0.129 ug/L
RT: 5.10 min Scan# 1168
Delta R.T. -0.01 min
Lab File: VU041932.D
Acq: 11 Jan 2021 19:54

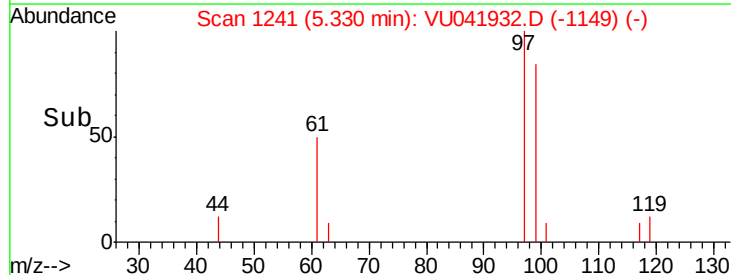
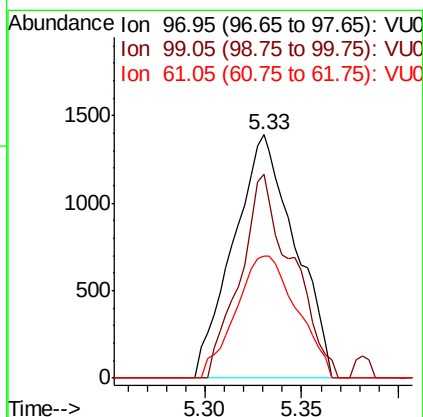
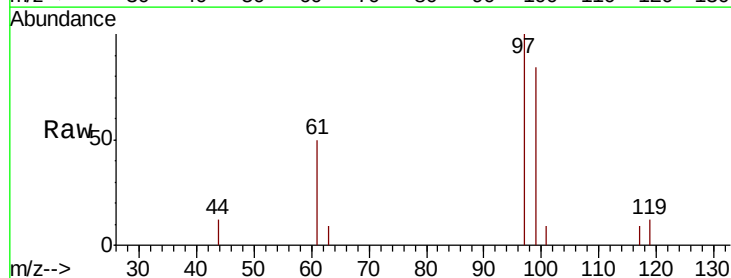
Instrument :
MSVOA_U
ClientSampleId :
BFXJ9

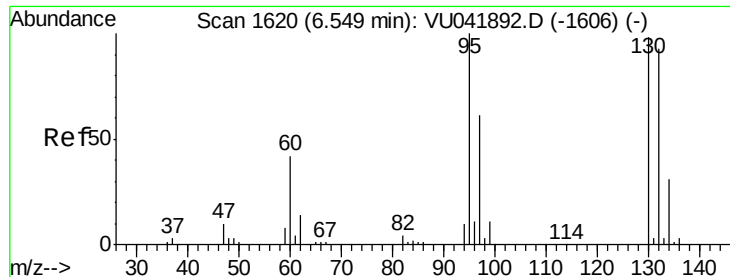
Tot Ion: 83 Resp: 2298
Ion Ratio Lower Upper
83 100
85 84.4 45.1 83.9#



#29
1,1,1-Trichloroethane
Concen: 0.212 ug/L
RT: 5.33 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VU041932.D
Acq: 11 Jan 2021 19:54

Tgt Ion: 97 Resp: 3077
Ion Ratio Lower Upper
97 100
99 71.1 51.4 77.2
61 49.8 35.3 52.9





#34

Trichloroethene

Concen: 9.398 ug/L

RT: 6.55 min Scan# 1621

Delta R.T. -0.00 min

Lab File: VU041932.D

Acq: 11 Jan 2021 19:54

Instrument :

MSVOA_U

ClientSampleId :

BFXJ9

Tot Ion: 95 Resp: 88274

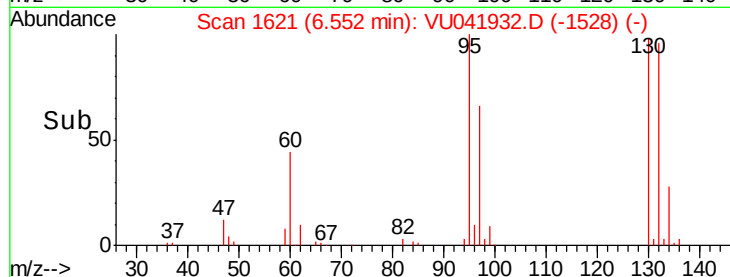
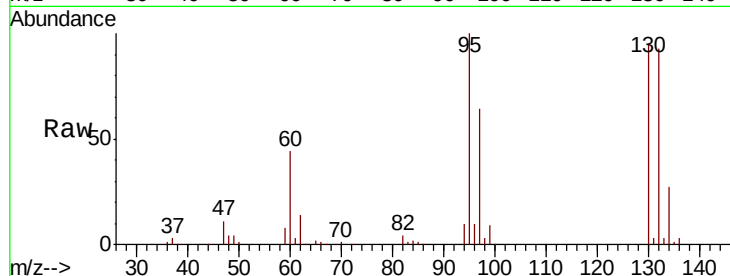
Ion Ratio Lower Upper

95 100

97 64.4 45.2 84.0

132 93.1 68.7 127.5

130 94.7 68.0 126.4

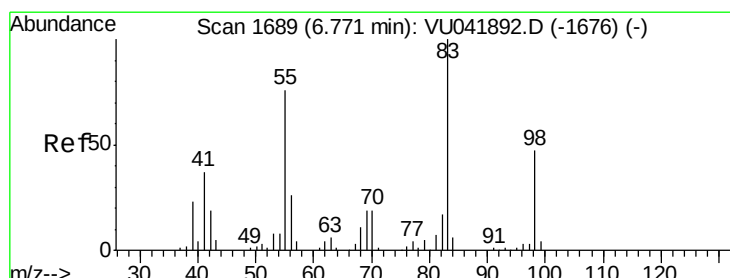
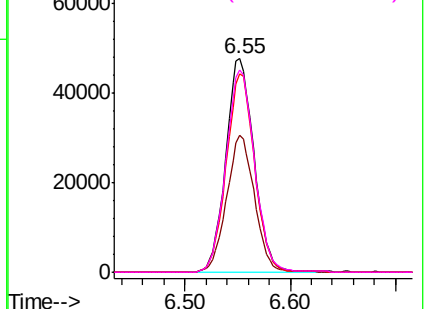


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 0.872 ug/L

RT: 6.70 min Scan# 1667

Delta R.T. -0.07 min

Lab File: VU041932.D

Acq: 11 Jan 2021 19:54

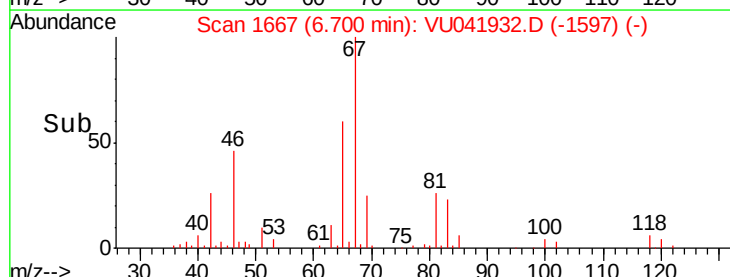
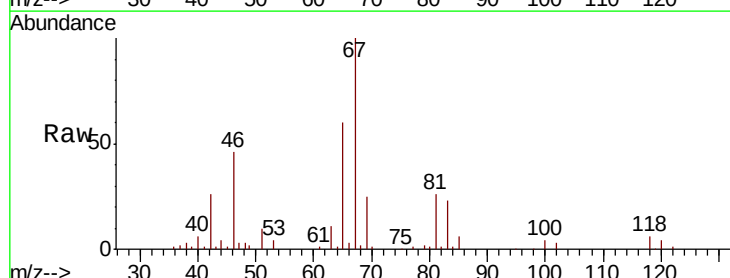
Tgt Ion: 83 Resp: 12041

Ion Ratio Lower Upper

83 100

55 0.0 64.3 96.5#

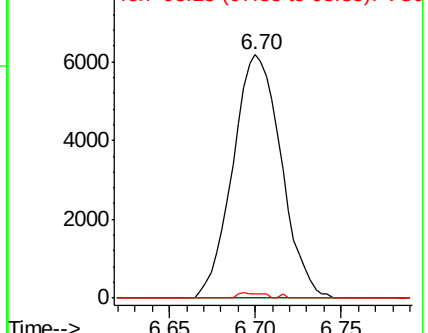
98 1.1 36.6 54.8#

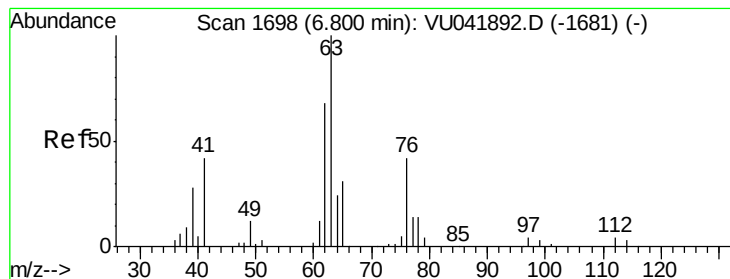


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 0.636 ug/L

RT: 6.70 min Scan# 1667

Delta R.T. -0.10 min

Lab File: VU041932.D

Acq: 11 Jan 2021 19:54

Instrument :

MSVOA_U

ClientSampleId :

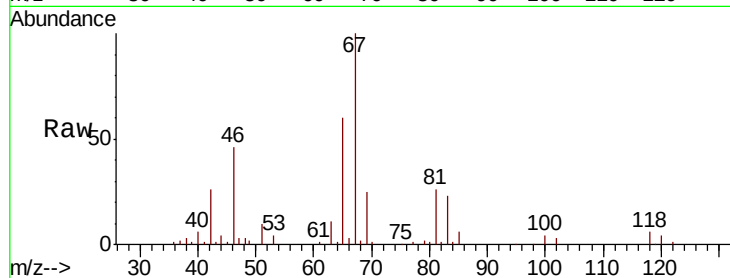
BFXJ9

Tot Ion: 63 Resp: 5674

Ion Ratio Lower Upper

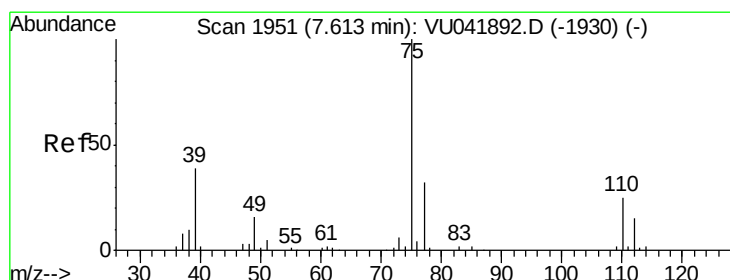
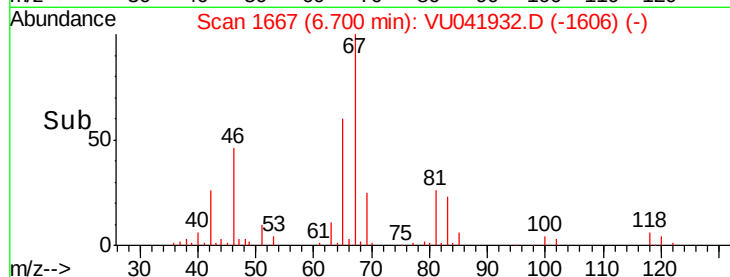
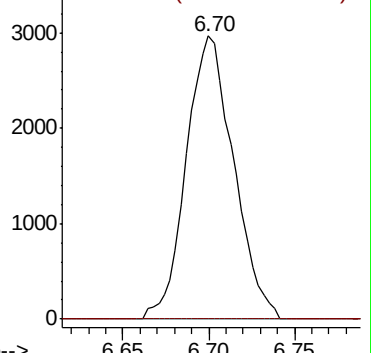
63 100

112 0.0 3.3 4.9#



Abundance Ion 63.10 (62.80 to 63.80): VU041932.D (-1667) (-)

Ion 112.10 (111.80 to 112.80): VU041932.D (-1667) (-)



#39

cis-1,3-Dichloropropene

Concen: 0.087 ug/L

RT: 7.58 min Scan# 1940

Delta R.T. -0.04 min

Lab File: VU041932.D

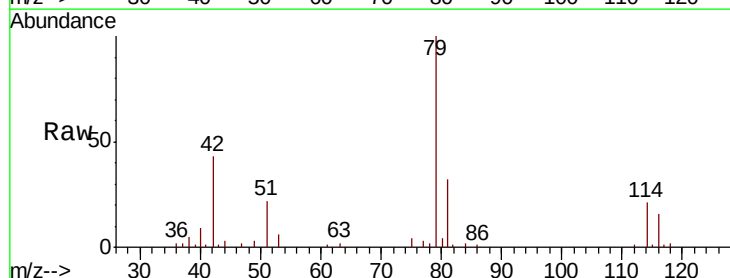
Acq: 11 Jan 2021 19:54

Tgt Ion: 75 Resp: 1140

Ion Ratio Lower Upper

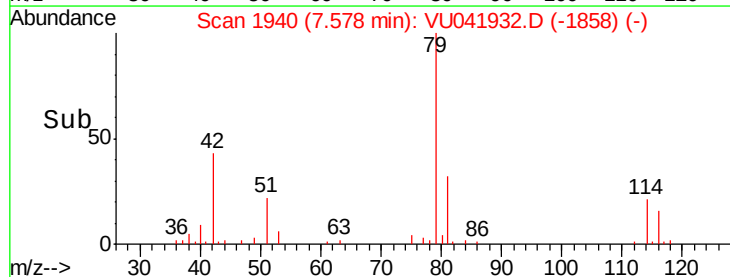
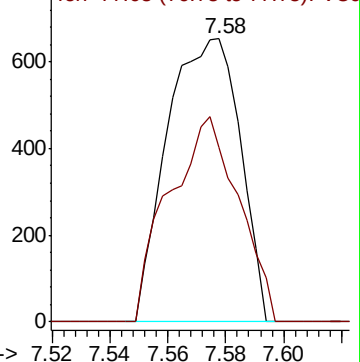
75 100

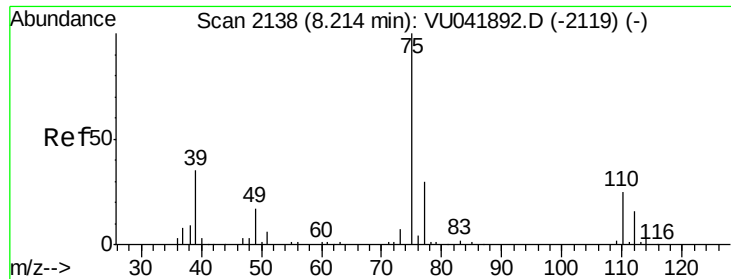
77 61.9 21.5 39.9#



Abundance Ion 75.05 (74.75 to 75.75): VU041932.D (-1858) (-)

Ion 77.05 (76.75 to 77.75): VU041932.D (-1858) (-)

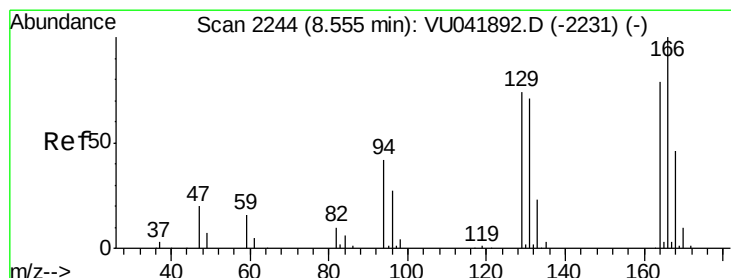
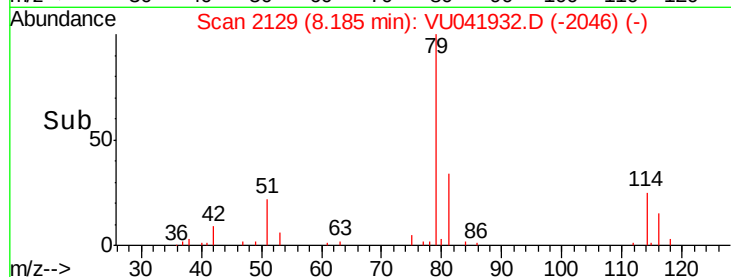
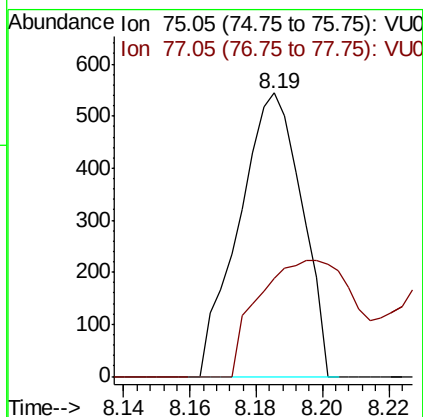
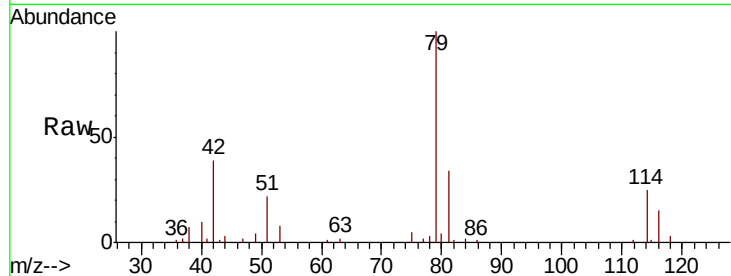




#44
trans-1,3-Dichloropropene
Concen: 0.061 ug/L
RT: 8.19 min Scan# 2129
Delta R.T. -0.03 min
Lab File: VU041932.D
Acq: 11 Jan 2021 19:54

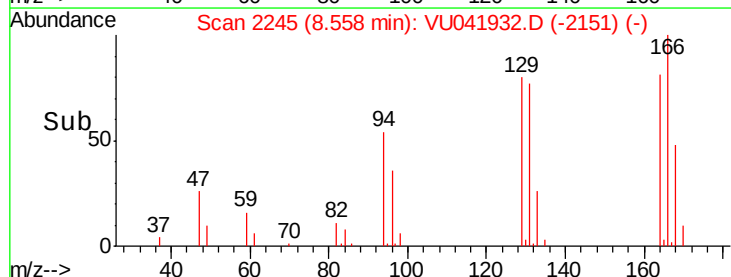
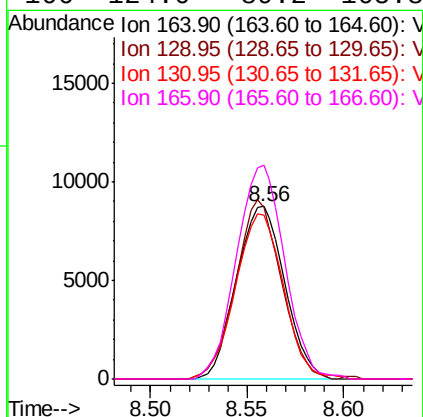
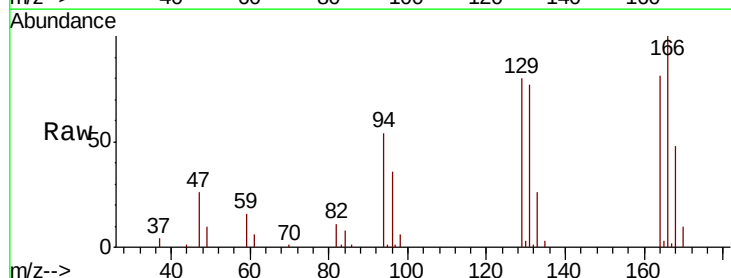
Instrument :
MSVOA_U
ClientSampleId :
BFXJ9

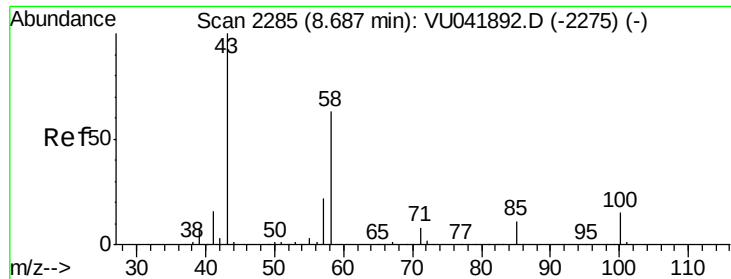
Tot Ion: 75 Resp: 715
Ion Ratio Lower Upper
75 100
77 34.7 23.7 44.1



#47
Tetrachloroethene
Concen: 2.328 ug/L
RT: 8.56 min Scan# 2245
Delta R.T. 0.00 min
Lab File: VU041932.D
Acq: 11 Jan 2021 19:54

Tgt Ion: 164 Resp: 15219
Ion Ratio Lower Upper
164 100
129 99.6 69.2 128.6
131 95.3 69.7 129.5
166 124.0 89.2 165.8

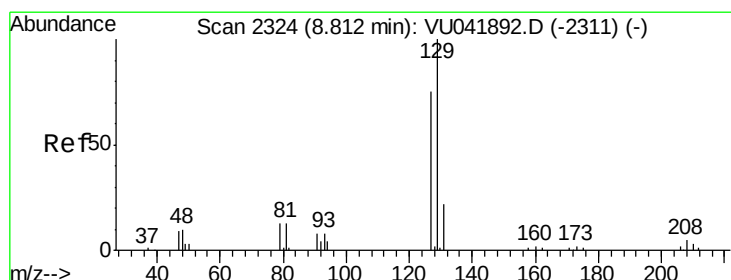
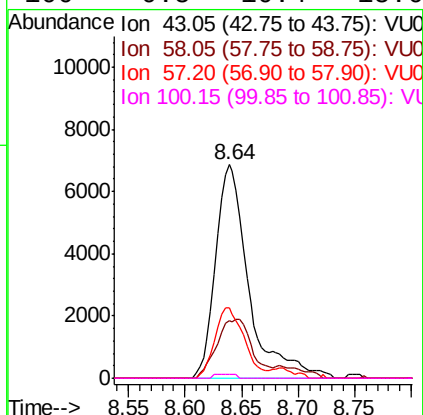
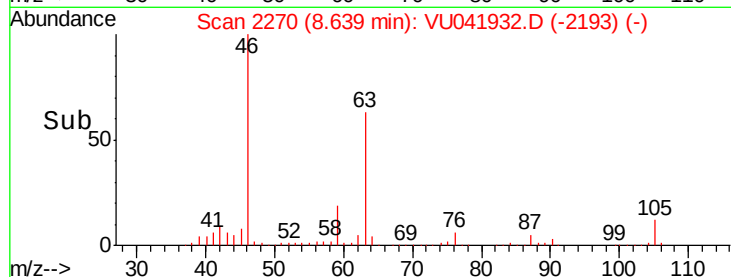
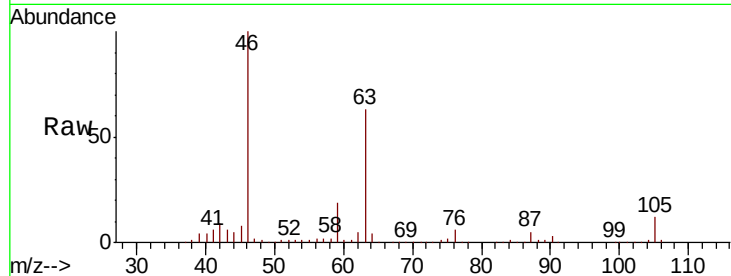




#48
2-Hexanone
Concen: 3.356 ug/L
RT: 8.64 min Scan# 2270
Delta R.T. -0.05 min
Lab File: VU041932.D
Acq: 11 Jan 2021 19:54

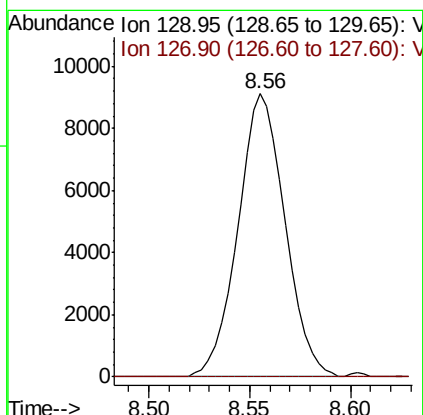
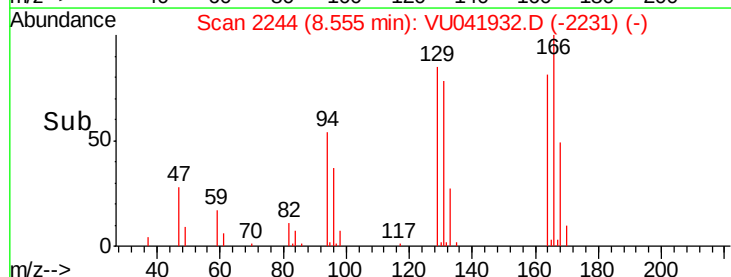
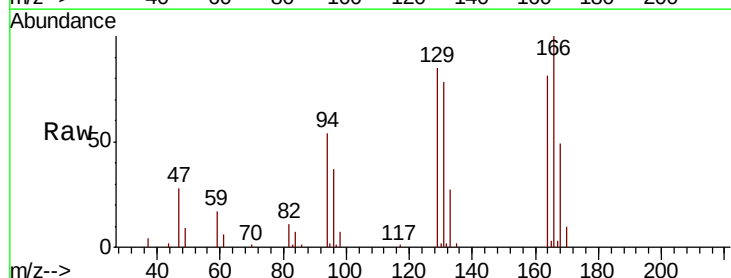
Instrument :
MSVOA_U
ClientSampleId :
BFXJ9

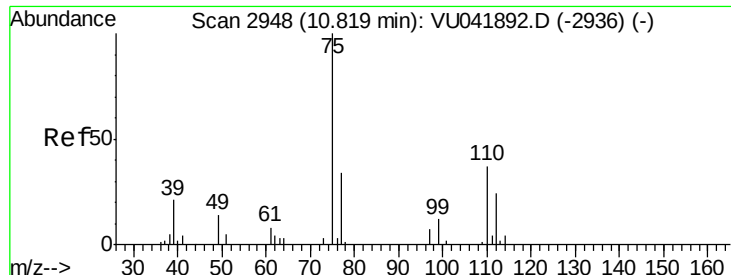
Tot Ion: 43 Resp: 14014
Ion Ratio Lower Upper
43 100
58 29.5 47.6 71.4#
57 29.0 17.1 25.7#
100 0.5 10.4 15.6#



#49
Dibromochloromethane
Concen: 1.787 ug/L
RT: 8.56 min Scan# 2244
Delta R.T. -0.26 min
Lab File: VU041932.D
Acq: 11 Jan 2021 19:54

Tgt Ion: 129 Resp: 14878
Ion Ratio Lower Upper
129 100
127 0.0 54.9 101.9#





#59

1,2,3-Trichloropropane

Concen: 0.832 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU041932.D

Acq: 11 Jan 2021 19:54

Instrument :

MSVOA_U

ClientSampleId :

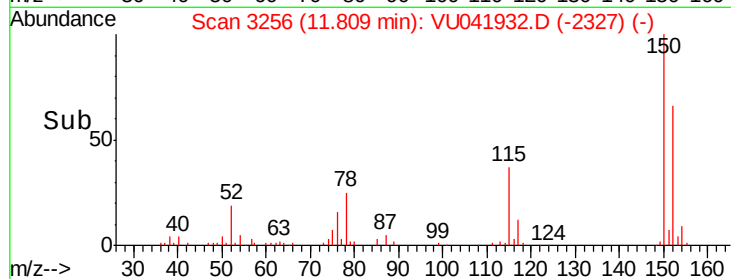
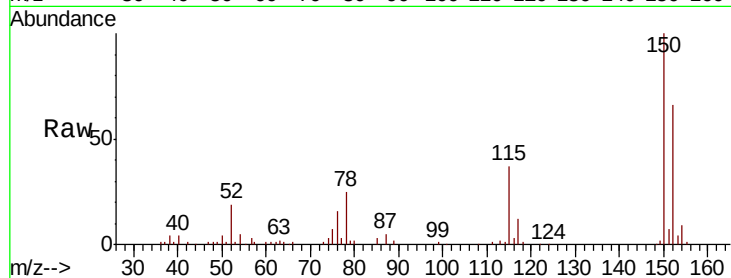
BFXJ9

Tot Ion: 75 Resp: 5424

Ion Ratio Lower Upper

75 100

77 38.8 27.0 40.4



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

