

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011121\
 Data File : VU041921.D
 Acq On : 11 Jan 2021 15:32
 Operator : SY/MD
 Sample : M1026-01DL 5X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFXJ8DL

Quant Time: Jan 12 03:26:50 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	120039	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	118510	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	51945	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	50697	5.01	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	100.20%
7) Chloroethane-d5	1.92	69	48029	5.13	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	102.60%
11) 1,1-Dichloroethene-d2	2.58	63	72627	3.79	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	75.80%
20) 2-Butanone-d5	4.65	46	147299	52.39	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	104.78%
24) Chloroform-d	5.08	84	87413	4.74	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.80%
26) 1,2-Dichloroethane-d4	5.72	65	51047	5.25	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	105.00%
32) Benzene-d6	5.74	84	184033	5.25	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	105.00%
36) 1,2-Dichloropropane-d6	6.70	67	52838	4.80	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.00%
41) Toluene-d8	7.90	98	146830	4.62	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.40%
43) trans-1,3-Dichloropropene-	8.19	79	22379	4.87	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	97.40%
46) 2-Hexanone-d5	8.64	63	123008	52.96	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	105.92%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	48716	5.00	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.00%
64) 1,2-Dichlorobenzene-d4	12.19	152	51961	5.29	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	105.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	1817	0.156	ug/L	94
3) Chloromethane	1.53	50	615	0.049	ug/L #	44
9) Trichlorofluoromethane	2.15	101	232866	13.161	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	4007	0.416	ug/L	90
12) 1,1-Dichloroethene	2.59	96	2454	0.262	ug/L #	1
16) Methylene chloride	3.06	84	3617	0.307	ug/L	99
17) Methyl tert-butyl Ether	3.38	73	12322	0.548	ug/L	98
19) 1,1-Dichloroethane	3.89	63	12773	0.748	ug/L	96
22) cis-1,2-Dichloroethene	4.69	96	1878	0.193	ug/L	95
25) Chloroform	5.11	83	1463	0.082	ug/L	84
27) 1,2-Dichloroethane	5.81	62	450	0.039	ug/L #	73
29) 1,1,1-Trichloroethane	5.34	97	1762	0.114	ug/L	92
33) Benzene	5.74	78	1590	0.042	ug/L	100
34) Trichloroethene	6.55	95	16621	1.658	ug/L	97
35) Methylcyclohexane	6.70	83	12670	0.860	ug/L #	17
37) 1,2-Dichloropropane	6.70	63	5387	0.566	ug/L #	88
39) cis-1,3-Dichloropropene	7.57	75	1489	0.106	ug/L	100

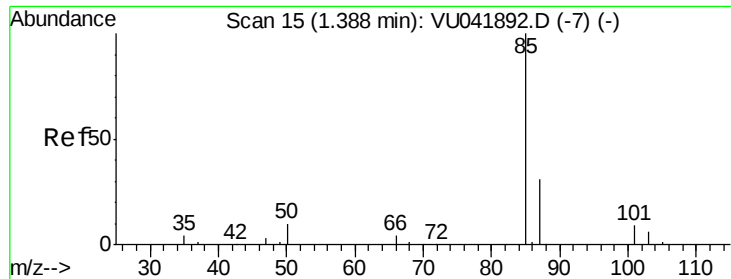
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011121\
Data File : VU041921.D
Acq On : 11 Jan 2021 15:32
Operator : SY/MD
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Quant Time: Jan 12 03:26:50 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR011121WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Jan 12 03:17:19 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) trans-1,3-Dichloropropene	8.18	75	900	0.072	ug/L	90
47) Tetrachloroethene	8.56	164	1911	0.274	ug/L	93
49) Dibromochloromethane	8.56	129	1962	0.221	ug/L #	10
59) 1,2,3-Trichloropropane	11.81	75	5768	0.829	ug/L	96

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



#2

Dichlorodifluoromethane

Concen: 0.156 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU041921.D

Acq: 11 Jan 2021 15:32

Instrument :

MSVOA_U

ClientSampleId :

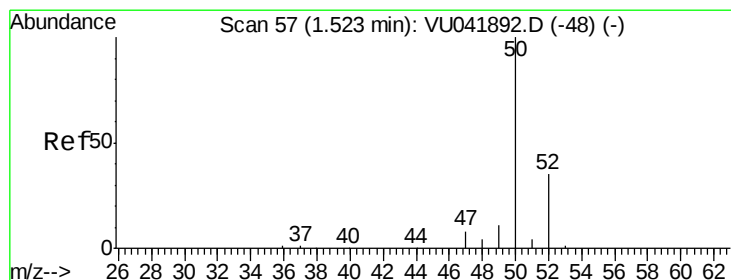
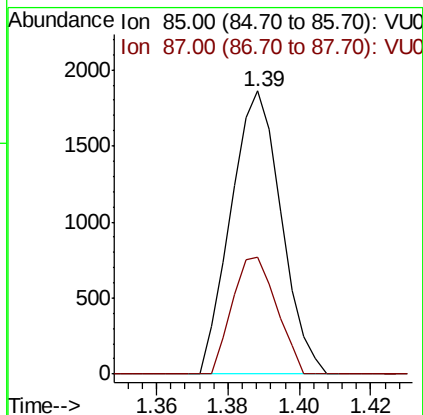
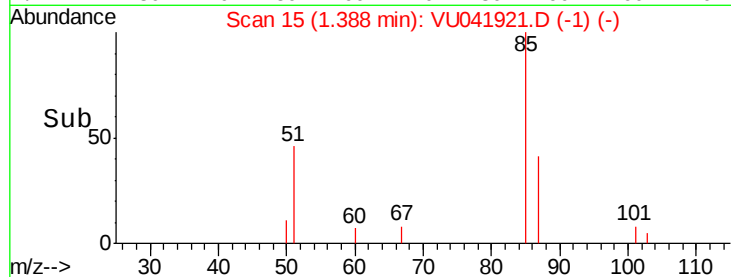
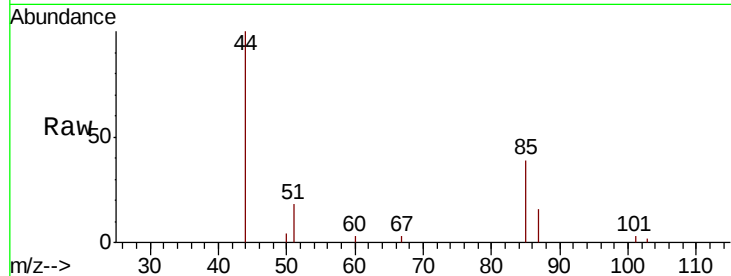
BFXJ8DL

Tot Ion: 85 Resp: 1817

Ion Ratio Lower Upper

85 100

87 36.3 26.3 39.5



#3

Chloromethane

Concen: 0.049 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU041921.D

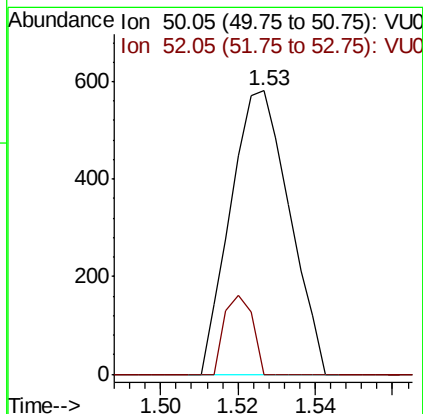
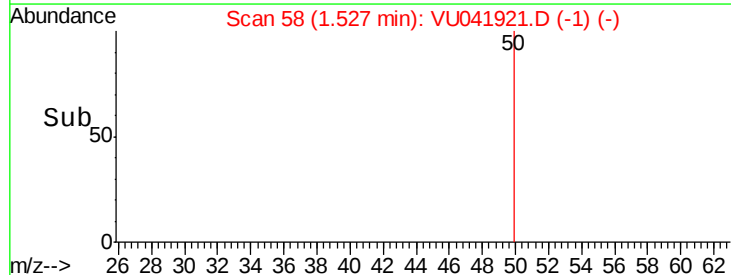
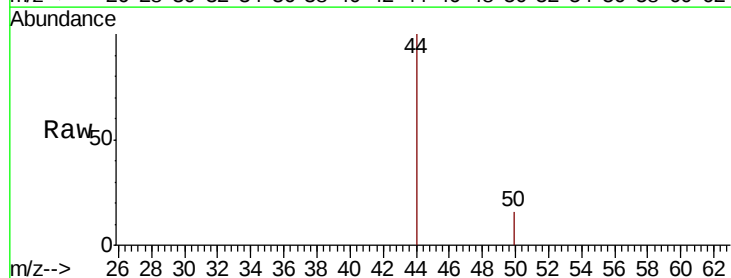
Acq: 11 Jan 2021 15:32

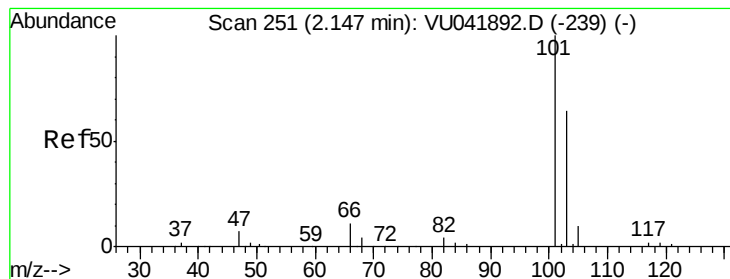
Tgt Ion: 50 Resp: 615

Ion Ratio Lower Upper

50 100

52 0.0 21.4 39.8#



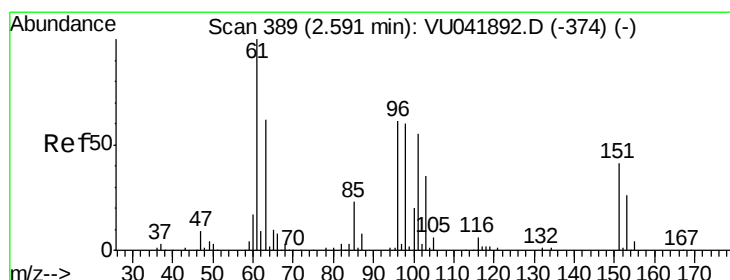
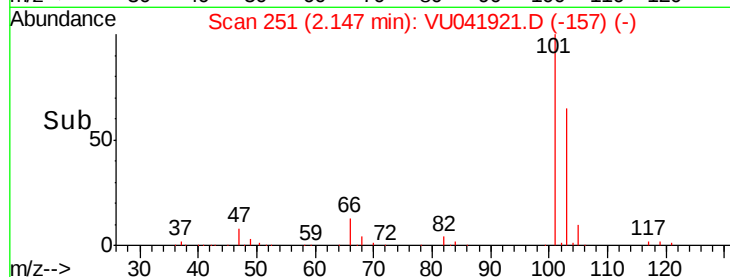
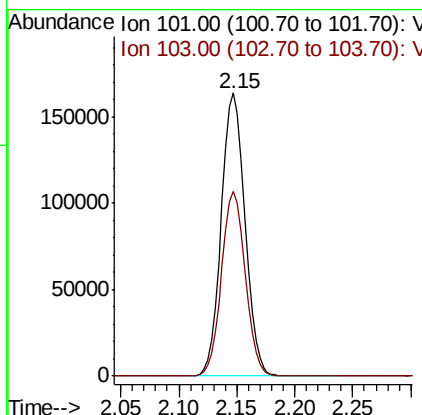
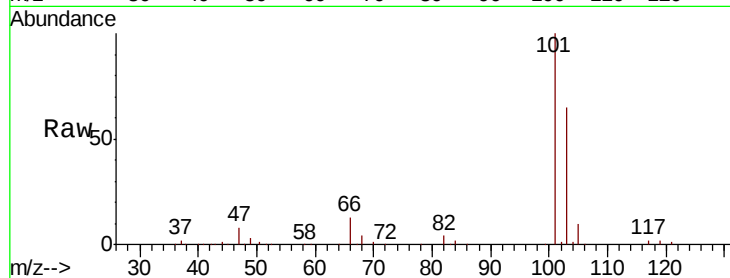


#9

Trichlorofluoromethane
Concen: 13.161 ug/L
RT: 2.15 min Scan# 251
Delta R.T. 0.00 min
Lab File: VU041921.D
Acq: 11 Jan 2021 15:32

Instrument :
MSVOA_U
ClientSampleId :
BFXJ8DL

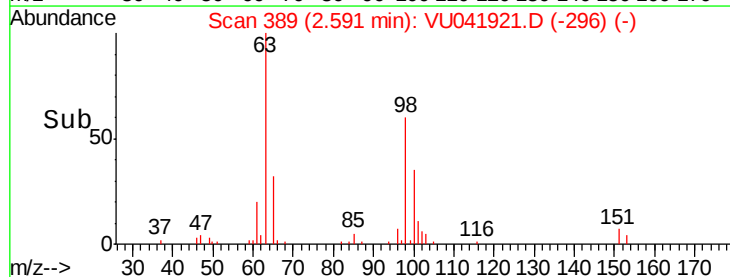
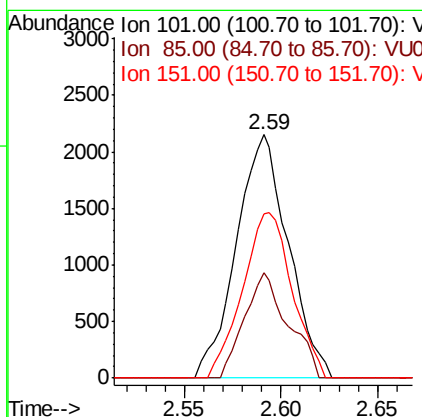
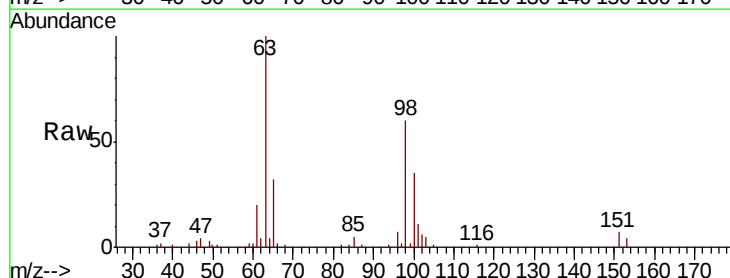
Tot Ion:101 Resp: 232866
Ion Ratio Lower Upper
101 100
103 65.4 51.3 76.9

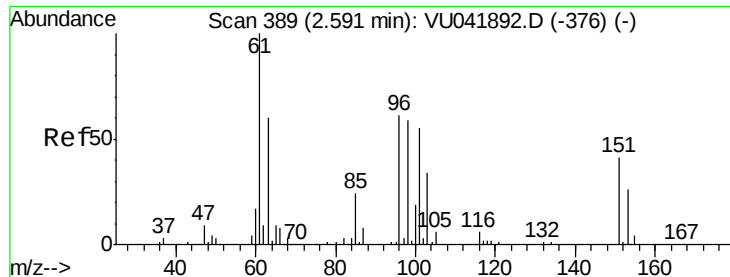


#10

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.416 ug/L
RT: 2.59 min Scan# 389
Delta R.T. -0.00 min
Lab File: VU041921.D
Acq: 11 Jan 2021 15:32

Tgt Ion:101 Resp: 4007
Ion Ratio Lower Upper
101 100
85 36.3 35.1 52.7
151 64.9 58.2 87.2





#12

1,1-Dichloroethene

Concen: 0.262 ug/L

RT: 2.59 min Scan# 388

Delta R.T. -0.00 min

Lab File: VU041921.D

Acq: 11 Jan 2021 15:32

Instrument :

MSVOA_U

ClientSampleId :

BFXJ8DL

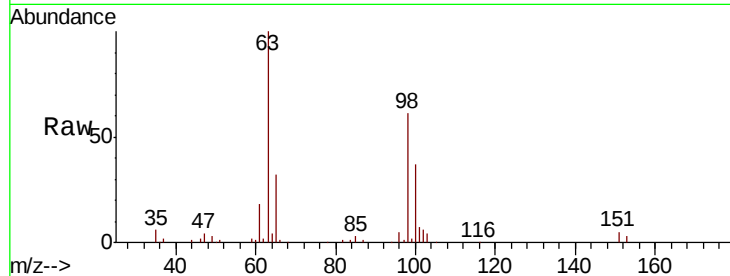
Tot Ion: 96 Resp: 2454

Ion Ratio Lower Upper

96 100

61 347.7 123.5 229.4#

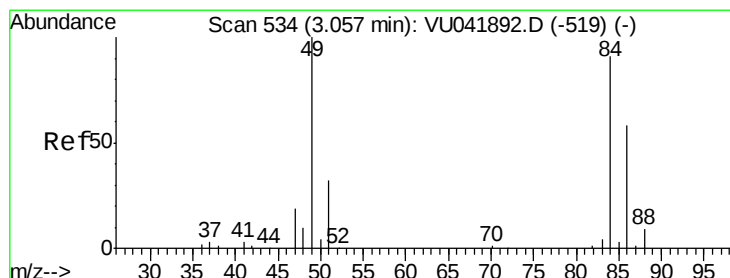
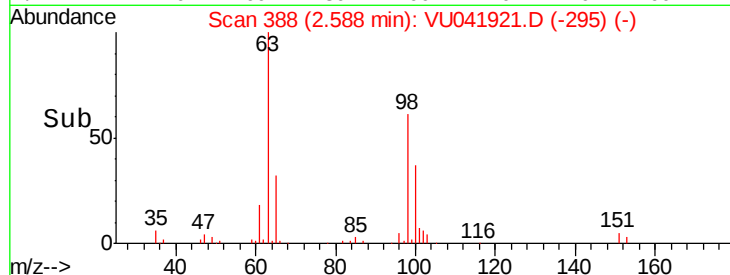
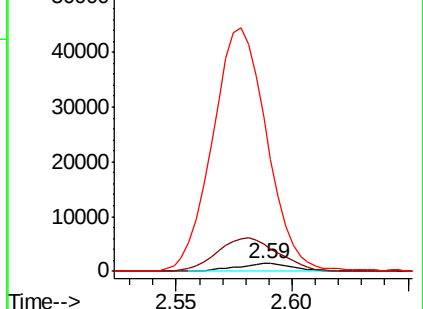
63 1961.1 93.5 173.7#



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



#16

Methylene chloride

Concen: 0.307 ug/L

RT: 3.06 min Scan# 534

Delta R.T. -0.00 min

Lab File: VU041921.D

Acq: 11 Jan 2021 15:32

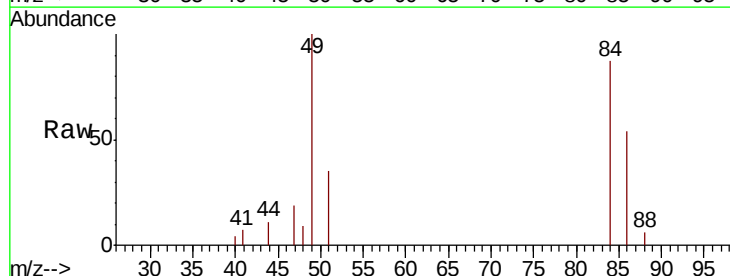
Tgt Ion: 84 Resp: 3617

Ion Ratio Lower Upper

84 100

86 62.7 43.5 80.7

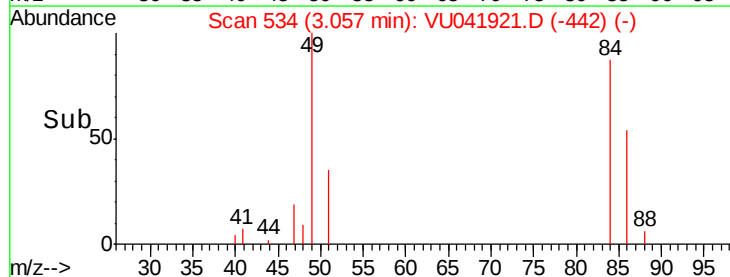
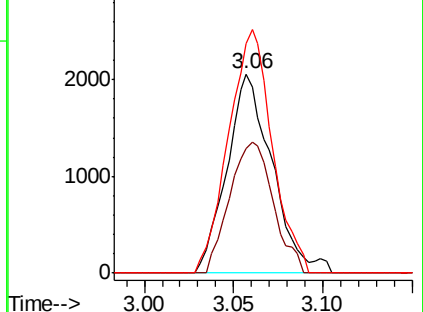
49 115.4 81.8 151.8

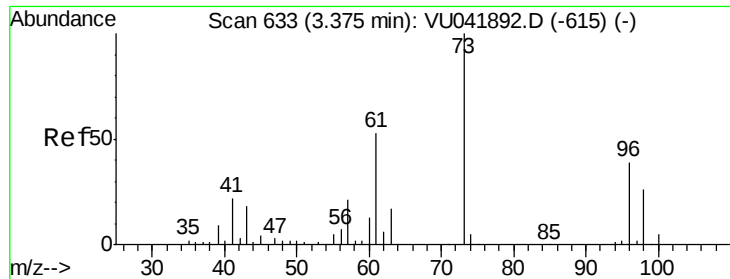


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

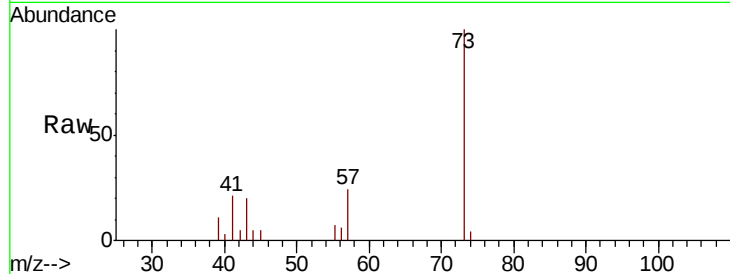




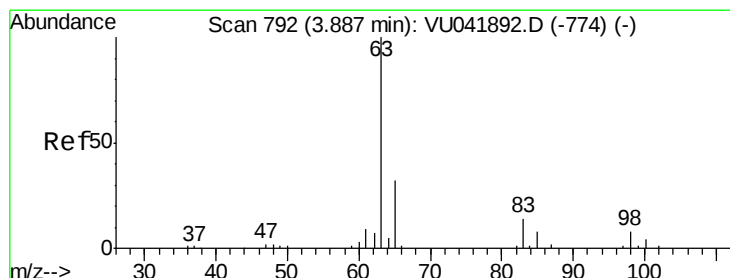
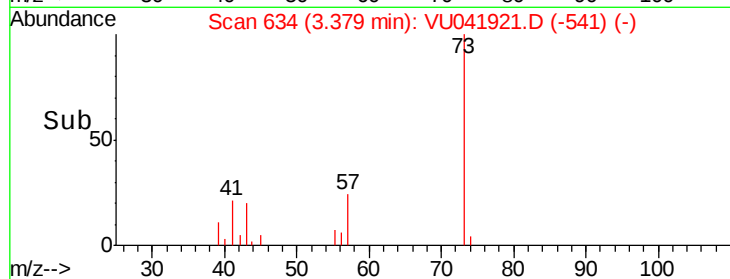
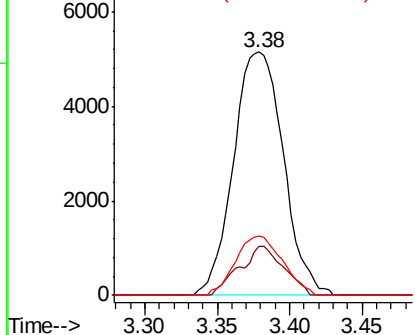
#17
Methvl tert-butvl Ether
Concen: 0.548 ug/L
RT: 3.38 min Scan# 634
Delta R.T. -0.00 min
Lab File: VU041921.D
Acq: 11 Jan 2021 15:32

Instrument :
MSVOA_U
ClientSampleId :
BFXJ8DL

Tot Ion: 73 Resp: 12322
Ion Ratio Lower Upper
73 100
43 18.0 15.8 23.8
57 23.0 18.3 27.5

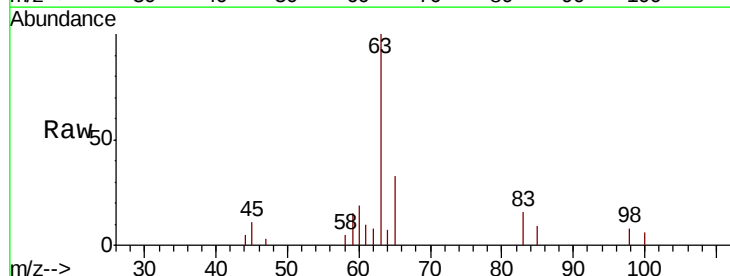


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

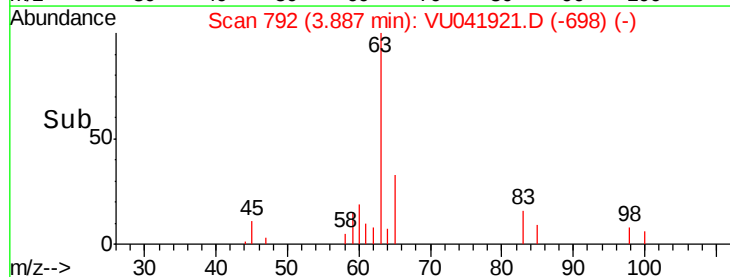
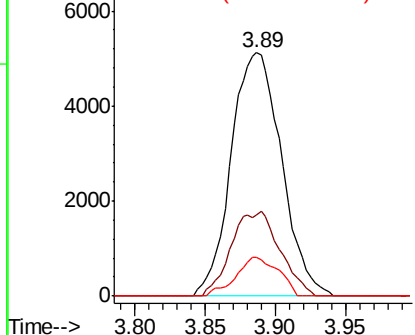


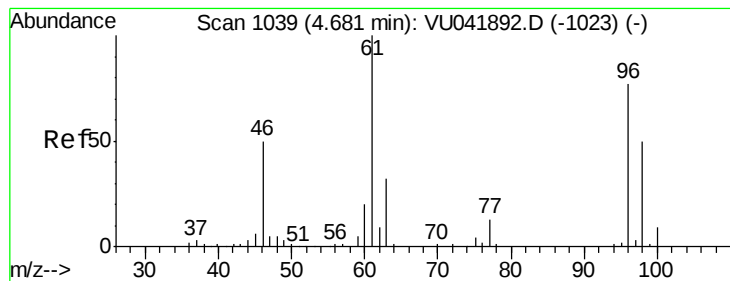
#19
1,1-Dichloroethane
Concen: 0.748 ug/L
RT: 3.89 min Scan# 792
Delta R.T. 0.00 min
Lab File: VU041921.D
Acq: 11 Jan 2021 15:32

Tgt Ion: 63 Resp: 12773
Ion Ratio Lower Upper
63 100
65 33.5 22.3 41.5
83 16.1 9.0 16.8



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 65.10 (64.80 to 65.80): VU0
Ion 83.05 (82.75 to 83.75): VU0





#22

cis-1,2-Dichloroethene

Concen: 0.193 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU041921.D

Acq: 11 Jan 2021 15:32

Instrument :

MSVOA_U

ClientSampleID :

BFXJ8DL

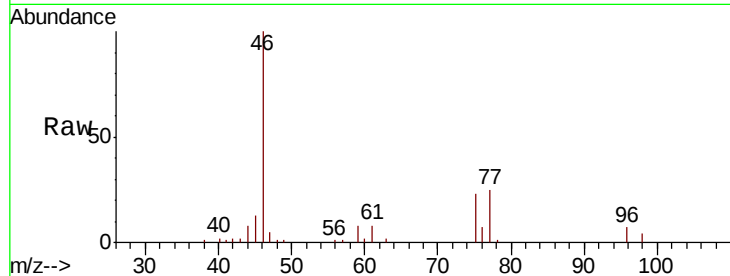
Tot Ion: 96 Resp: 1878

Ion Ratio Lower Upper

96 100

61 123.0 90.3 167.7

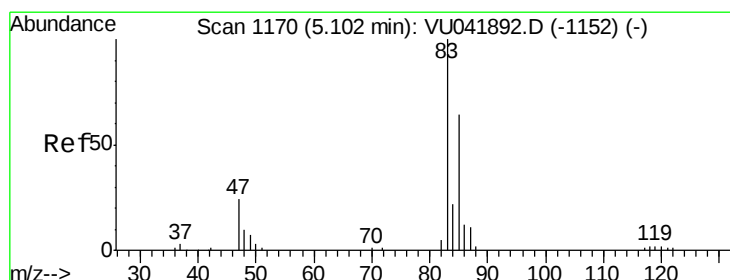
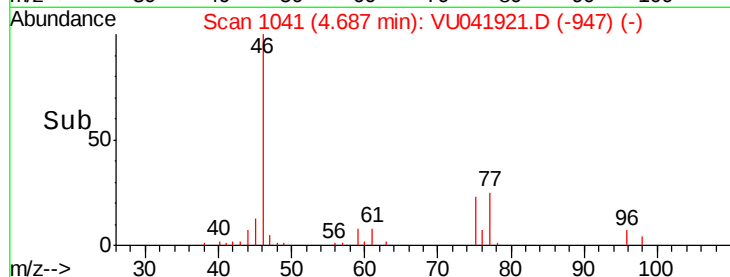
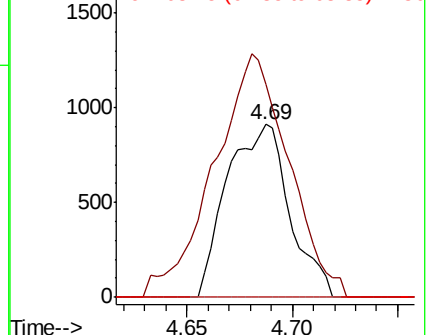
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0



#25

Chloroform

Concen: 0.082 ug/L

RT: 5.11 min Scan# 1171

Delta R.T. -0.00 min

Lab File: VU041921.D

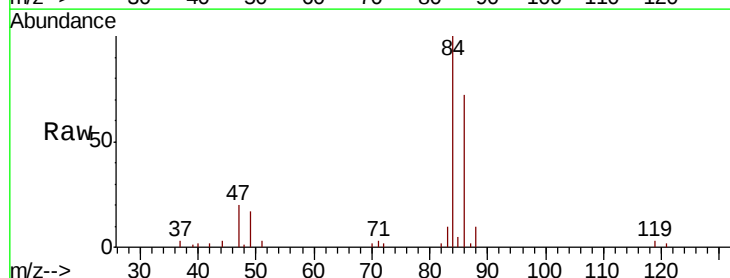
Acq: 11 Jan 2021 15:32

Tgt Ion: 83 Resp: 1463

Ion Ratio Lower Upper

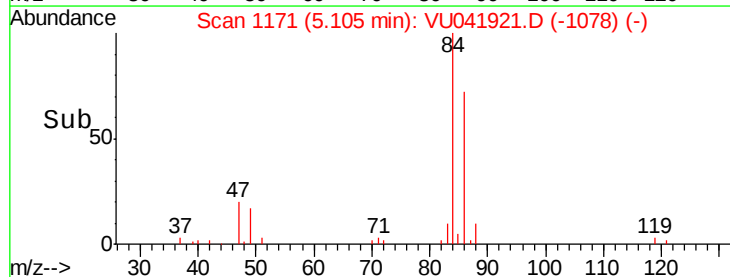
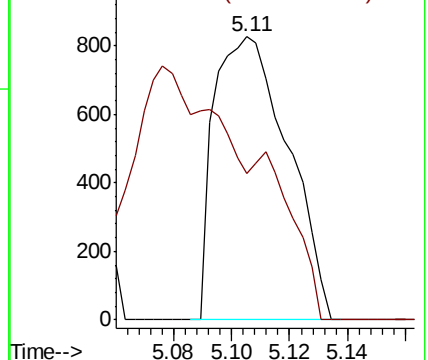
83 100

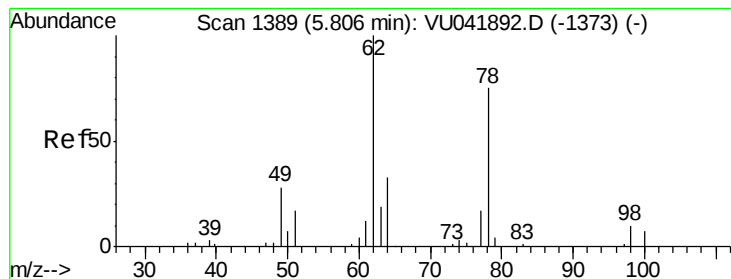
85 51.9 45.1 83.9



Abundance Ion 83.05 (82.75 to 83.75): VU0

Ion 85.00 (84.70 to 85.70): VU0





#27

1,2-Dichloroethane

Concen: 0.039 ug/L

RT: 5.81 min Scan# 1389

Delta R.T. -0.00 min

Lab File: VU041921.D

Acq: 11 Jan 2021 15:32

Instrument :

MSVOA_U

ClientSampleId :

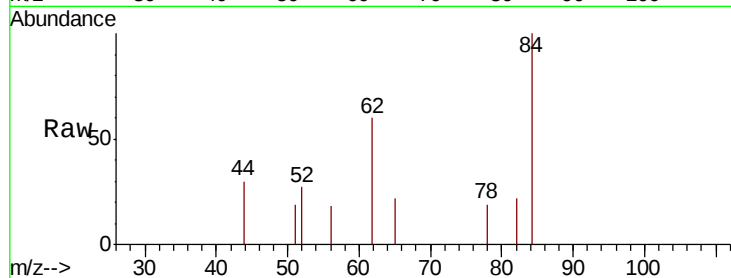
BFXJ8DL

Tot Ion: 62 Resp: 450

Ion Ratio Lower Upper

62 100

98 0.0 7.8 11.8#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.05 (97.75 to 98.75): VU0

5.81

400

300

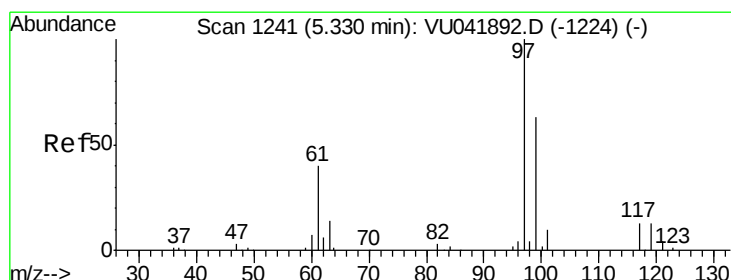
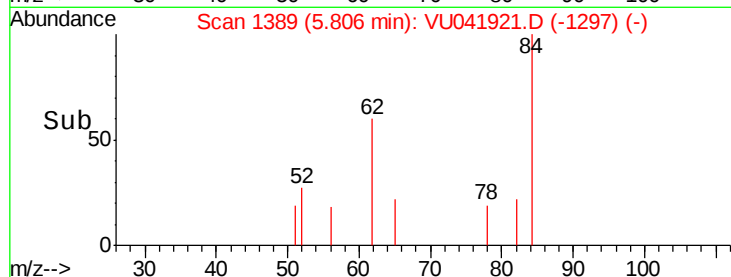
200

100

0

5.78 5.80 5.82 5.84

Time-->



#29

1,1,1-Trichloroethane

Concen: 0.114 ug/L

RT: 5.34 min Scan# 1243

Delta R.T. 0.00 min

Lab File: VU041921.D

Acq: 11 Jan 2021 15:32

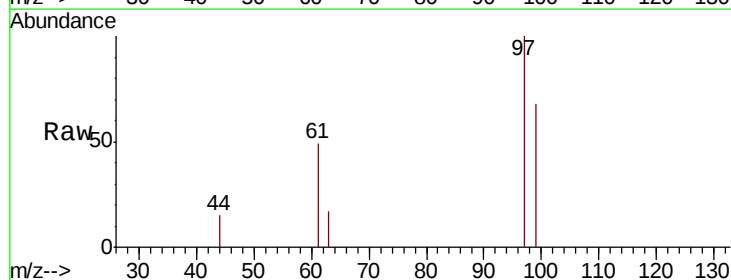
Tgt Ion: 97 Resp: 1762

Ion Ratio Lower Upper

97 100

99 54.3 51.4 77.2

61 43.6 35.3 52.9



Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 61.05 (60.75 to 61.75): VU0

1000

800

600

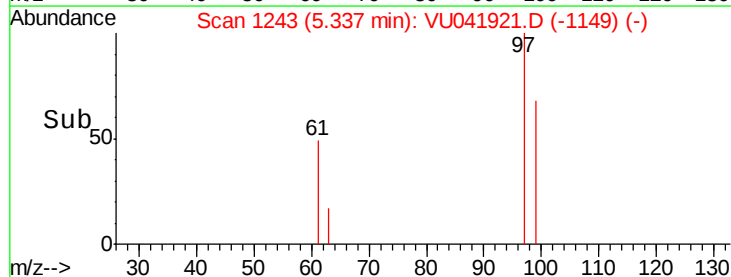
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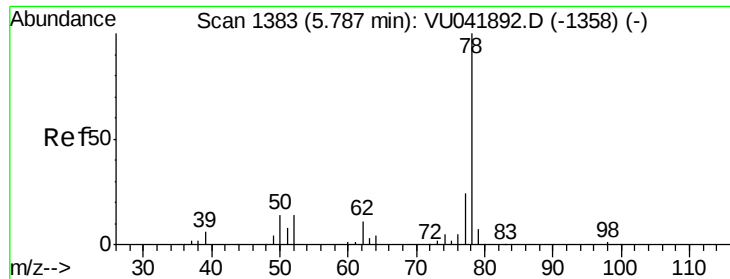
200

0

5.30 5.35

Time-->





#33

Benzene

Concen: 0.042 ug/L

RT: 5.74 min Scan# 1367

Delta R.T. -0.05 min

Lab File: VU041921.D

Acq: 11 Jan 2021 15:32

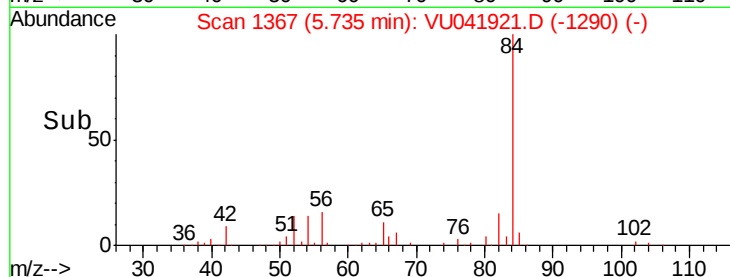
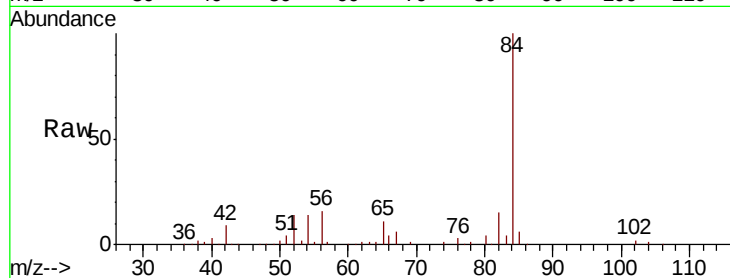
Instrument :

MSVOA_U

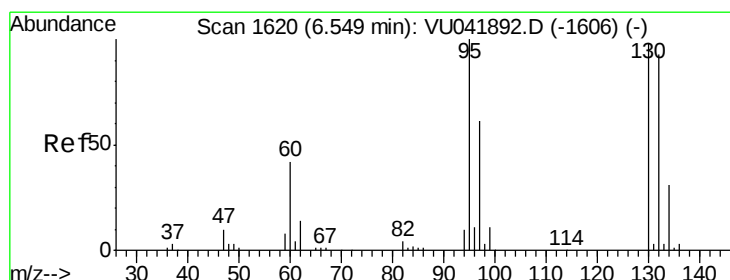
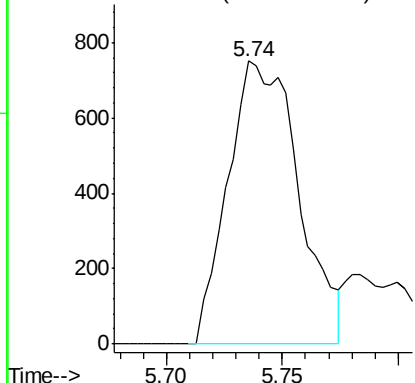
ClientSampleId :

BFXJ8DL

Tgt Ion: 78 Resp: 1590



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 1.658 ug/L

RT: 6.55 min Scan# 1621

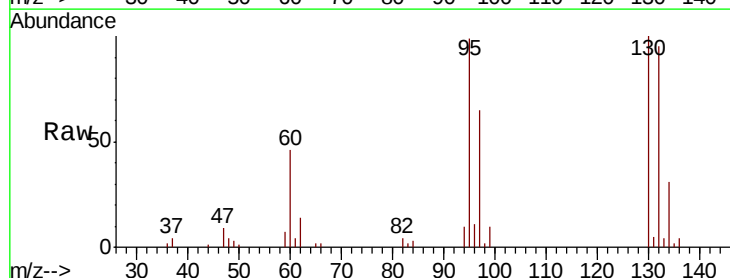
Delta R.T. -0.00 min

Lab File: VU041921.D

Acq: 11 Jan 2021 15:32

Tgt Ion: 95 Resp: 16621

Ion	Ratio	Lower	Upper
95	100		
97	65.6	45.2	84.0
132	95.5	68.7	127.5
130	101.0	68.0	126.4

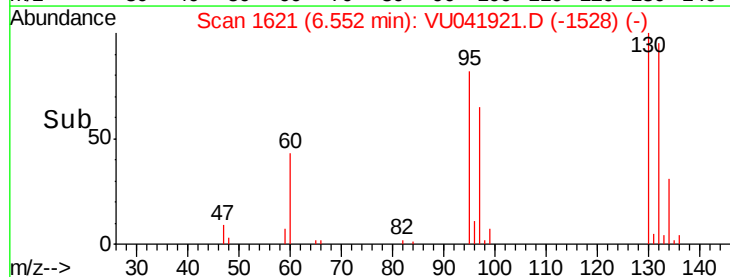
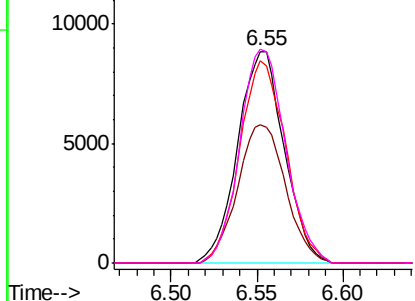


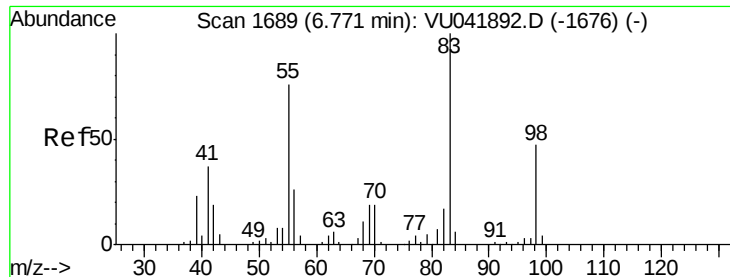
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

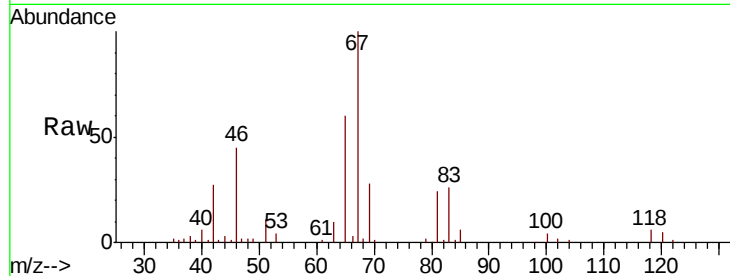




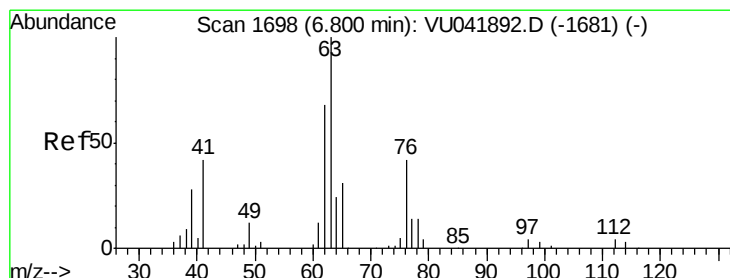
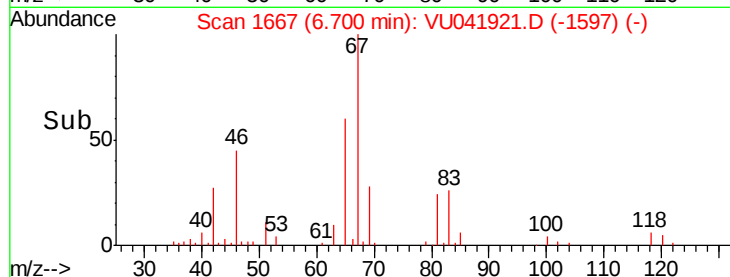
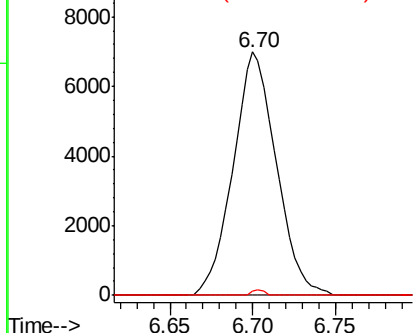
#35
Methylcyclohexane
Concen: 0.860 ug/L
RT: 6.70 min Scan# 1667
Delta R.T. -0.07 min
Lab File: VU041921.D
Acq: 11 Jan 2021 15:32

Instrument :
MSVOA_U
ClientSampleId :
BFXJ8DL

Tot Ion: 83 Resp: 12670
Ion Ratio Lower Upper
83 100
55 0.0 64.3 96.5#
98 0.6 36.6 54.8#

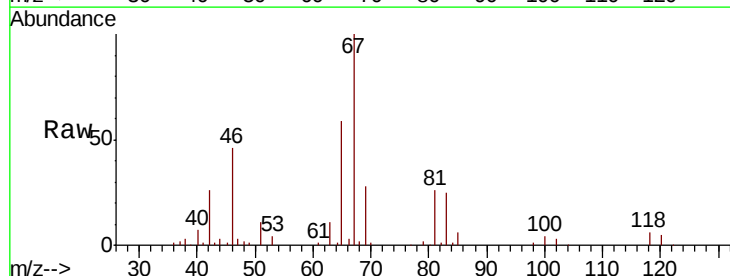


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

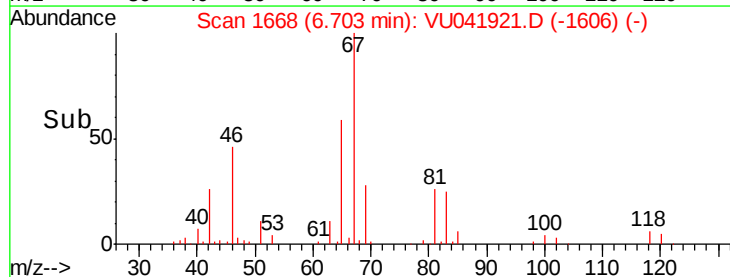
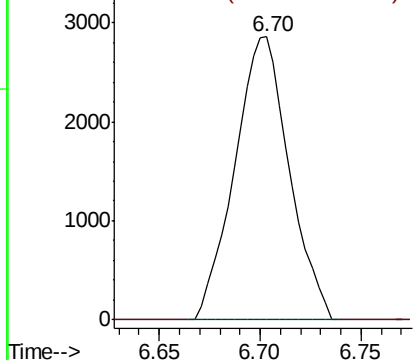


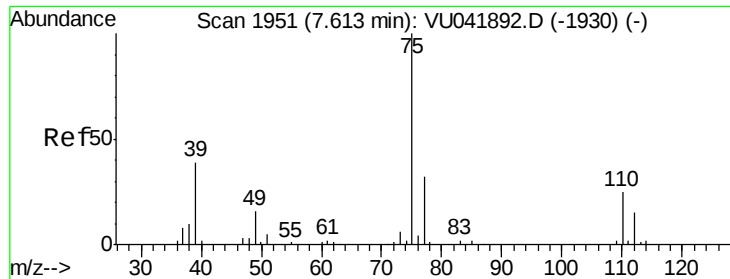
#37
1,2-Dichloropropane
Concen: 0.566 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.10 min
Lab File: VU041921.D
Acq: 11 Jan 2021 15:32

Tgt Ion: 63 Resp: 5387
Ion Ratio Lower Upper
63 100
112 0.0 3.3 4.9#



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 112.10 (111.80 to 112.80): V



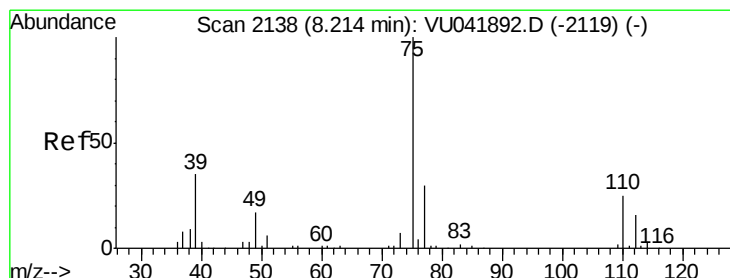
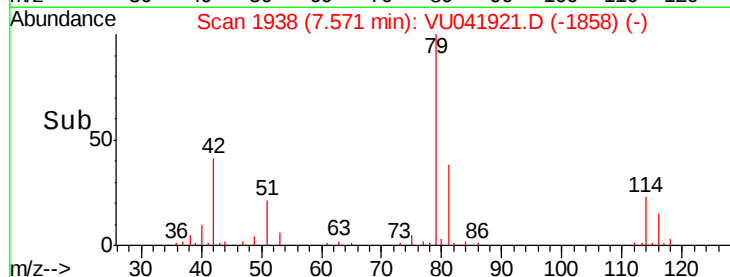
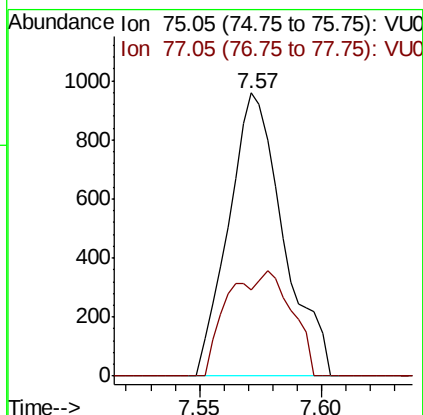
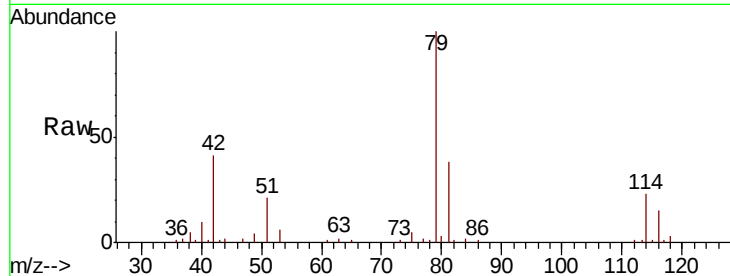


#39

cis-1,3-Dichloropropene
Concen: 0.106 ug/L
RT: 7.57 min Scan# 1938
Delta R.T. -0.04 min
Lab File: VU041921.D
Acq: 11 Jan 2021 15:32

Instrument :
MSVOA_U
ClientSampleId :
BFXJ8DL

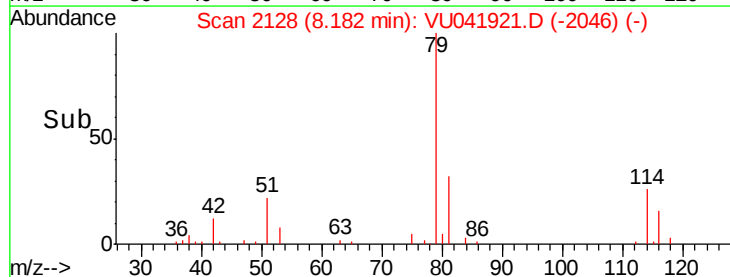
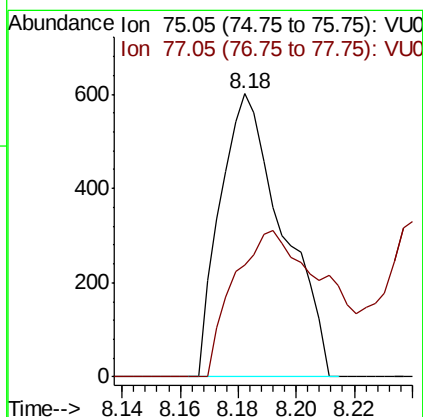
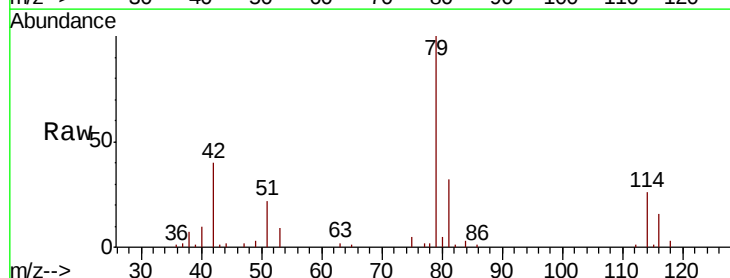
Tot Ion: 75 Resp: 1489
Ion Ratio Lower Upper
75 100
77 30.6 21.5 39.9

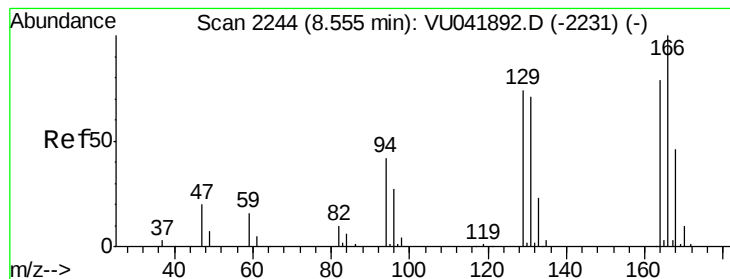


#44

trans-1,3-Dichloropropene
Concen: 0.072 ug/L
RT: 8.18 min Scan# 2128
Delta R.T. -0.04 min
Lab File: VU041921.D
Acq: 11 Jan 2021 15:32

Tgt Ion: 75 Resp: 900
Ion Ratio Lower Upper
75 100
77 39.4 23.7 44.1





#47

Tetrachloroethene

Concen: 0.274 ug/L

RT: 8.56 min Scan# 2246

Delta R.T. 0.01 min

Lab File: VU041921.D

Acq: 11 Jan 2021 15:32

Instrument :

MSVOA_U

ClientSampleId :

BFXJ8DL

Tot Ion:164 Resp: 1911

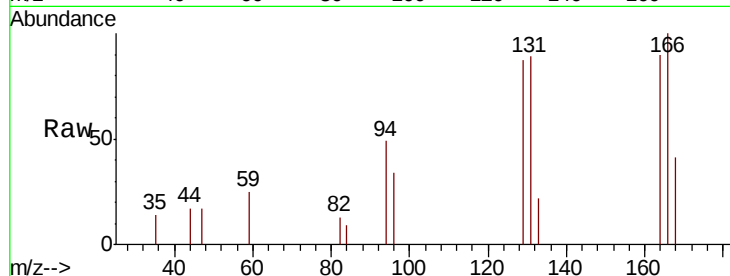
Ion Ratio Lower Upper

164 100

129 96.4 69.2 128.6

131 98.7 69.7 129.5

166 110.6 89.2 165.8

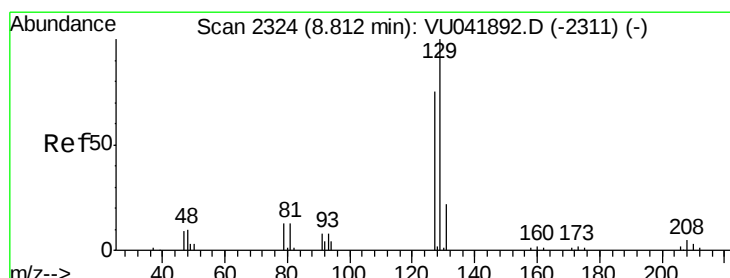
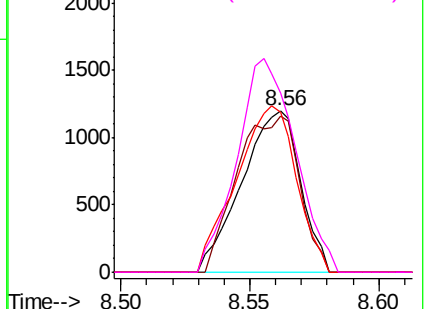
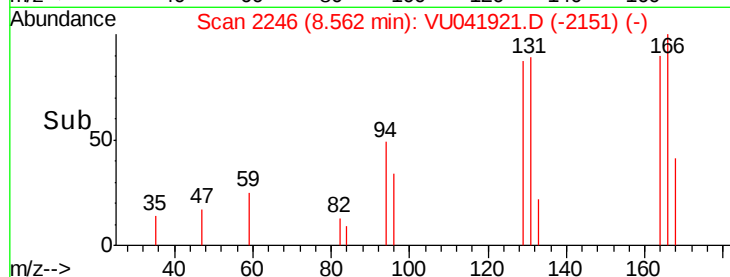


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#49

Dibromochloromethane

Concen: 0.221 ug/L

RT: 8.56 min Scan# 2246

Delta R.T. -0.25 min

Lab File: VU041921.D

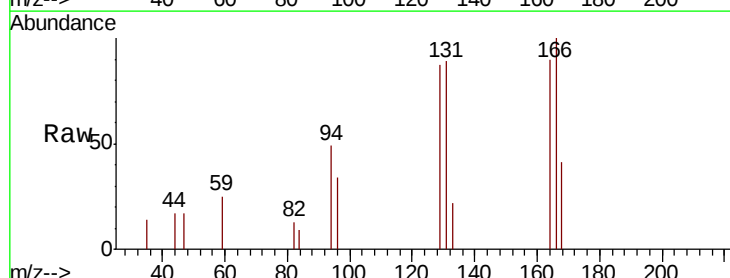
Acq: 11 Jan 2021 15:32

Tgt Ion:129 Resp: 1962

Ion Ratio Lower Upper

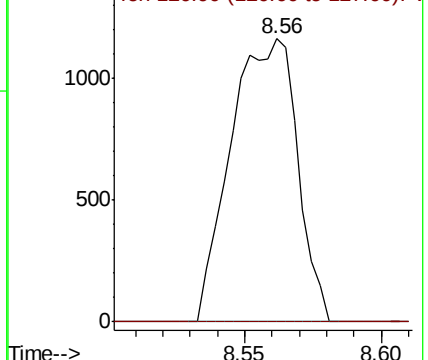
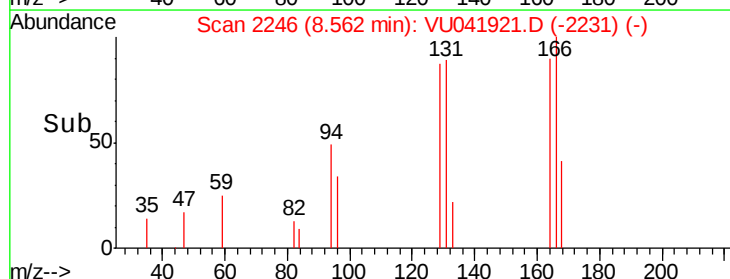
129 100

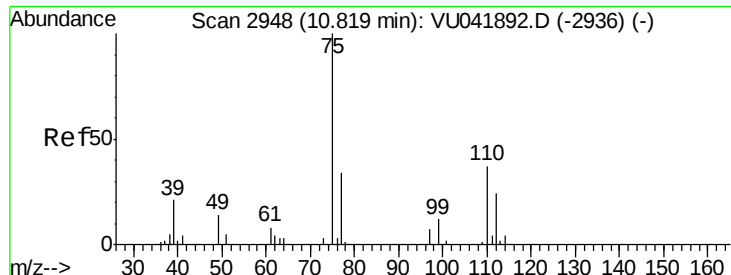
127 0.0 54.9 101.9#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V





#59
 1,2,3-Trichloropropane
 Concen: 0.829 ug/L
 RT: 11.81 min Scan# 3255
 Delta R.T. 0.98 min
 Lab File: VU041921.D
 Acq: 11 Jan 2021 15:32

Instrument :
 MSVOA_U
 ClientSampleId :
 BFXJ8DL

Tot Ion: 75 Resp: 5768
 Ion Ratio Lower Upper
 75 100
 77 31.1 27.0 40.4

