

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010921\
 Data File : VU041896.D
 Acq On : 08 Jan 2021 11:38
 Operator : SY/MD
 Sample : M1027-03
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 09 01:33:25 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Jan 09 01:31:59 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	138468	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	138342	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	58655	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	39453	3.65	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	73.00%
7) Chloroethane-d5	1.92	69	40517	4.84	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.80%
11) 1,1-Dichloroethene-d2	2.58	63	65684	3.29	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	65.80%
20) 2-Butanone-d5	4.65	46	169227	54.42	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	108.84%
24) Chloroform-d	5.08	84	96703	5.21	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.20%
26) 1,2-Dichloroethane-d4	5.72	65	55112	5.24	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.80%
32) Benzene-d6	5.74	84	182800	4.61	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.20%
36) 1,2-Dichloropropane-d6	6.70	67	62504	5.03	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.60%
41) Toluene-d8	7.90	98	156707	4.38	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.60%
43) trans-1,3-Dichloropropene-	8.18	79	23538	4.22	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.40%
46) 2-Hexanone-d5	8.64	63	157256	51.51	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	103.02%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	54615	4.84	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	58312	5.59	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	111.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	60902	5.192	ug/L 100
3) Chloromethane	1.53	50	2272	0.199	ug/L 100
5) Vinyl chloride	1.61	62	728	0.058	ug/L # 1
9) Trichlorofluoromethane	2.15	101	6041	0.379	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.57	101	989	0.104	ug/L # 35
12) 1,1-Dichloroethene	2.59	96	9924	1.057	ug/L # 24
13) Acetone	2.67	43	2014	1.018	ug/L 95
16) Methylene chloride	3.06	84	1248	0.111	ug/L 80
17) Methyl tert-butyl Ether	3.38	73	6371	0.254	ug/L 95
18) trans-1,2-Dichloroethene	3.37	96	2576	0.265	ug/L 94
19) 1,1-Dichloroethane	3.89	63	21673	1.193	ug/L 95
22) cis-1,2-Dichloroethene	4.69	96	18597	1.732	ug/L 99
25) Chloroform	5.11	83	4194	0.229	ug/L 82
29) 1,1,1-Trichloroethane	5.33	97	3324	0.209	ug/L 99
33) Benzene	5.79	78	2690	0.061	ug/L 100
34) Trichloroethene	6.55	95	246715	22.191	ug/L 97
35) Methylcyclohexane	6.70	83	14170	0.788	ug/L # 18

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010921\
 Data File : VU041896.D
 Acq On : 08 Jan 2021 11:38
 Operator : SY/MD
 Sample : M1027-03
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 09 01:33:25 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Jan 09 01:31:59 2021
 Response via : Initial Calibration

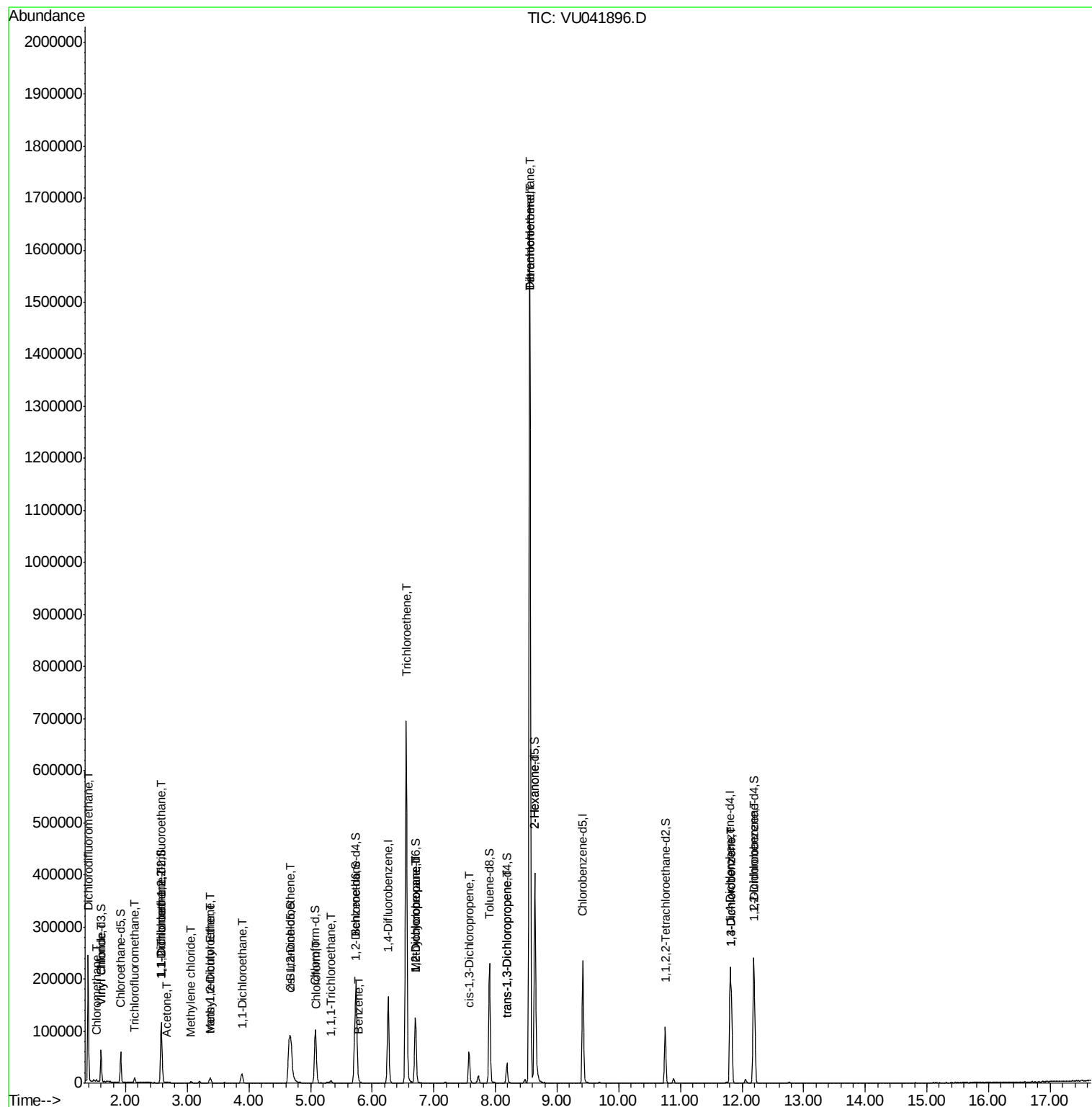
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,2-Dichloropropane	6.70	63	6419	0.567	uq/L #	88
39) cis-1,3-Dichloropropene	7.57	75	1471	0.088	uq/L #	82
44) trans-1,3-Dichloropropene	8.18	75	739	0.049	uq/L #	48
47) Tetrachloroethene	8.56	164	382764	49.180	uq/L	97
48) 2-Hexanone	8.64	43	16777	2.863	uq/L #	73
49) Dibromochloromethane	8.56	129	369703	38.458	uq/L #	10
62) 1,3-Dichlorobenzene	11.83	146	61124	3.407	uq/L	96
63) 1,4-Dichlorobenzene	11.83	146	61124	3.389	uq/L	98
65) 1,2-Dichlorobenzene	12.20	146	44666	2.543	uq/L	95

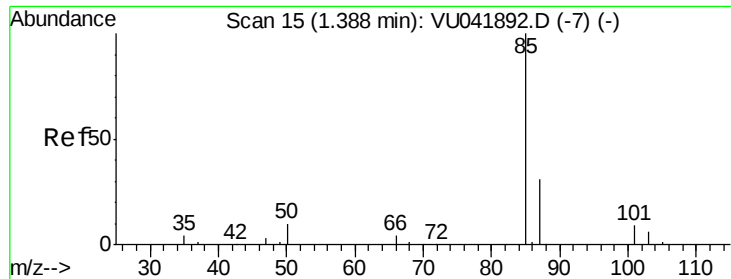
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010921\
Data File : VU041896.D
Acq On : 08 Jan 2021 11:38
Operator : SY/MD
Sample : M1027-03
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: Jan 09 01:33:25 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Jan 09 01:31:59 2021
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 5.192 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU041896.D

Acq: 08 Jan 2021 11:38

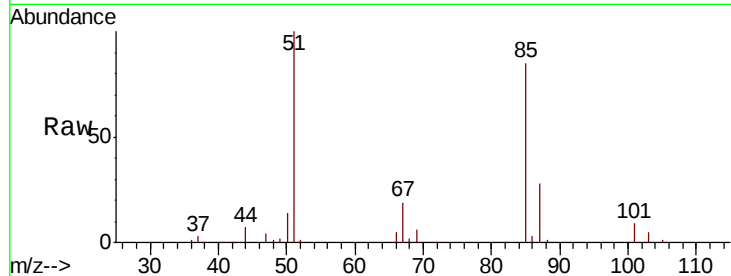
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 60902

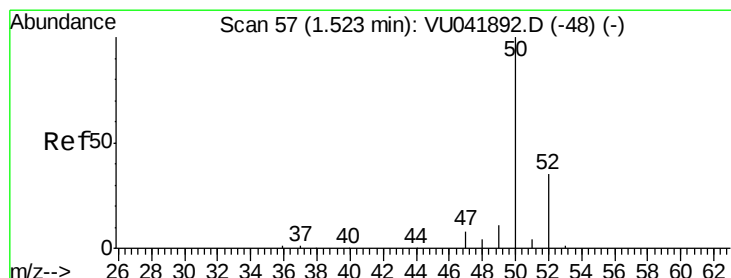
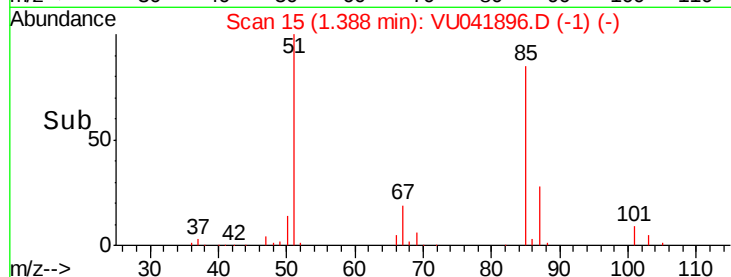
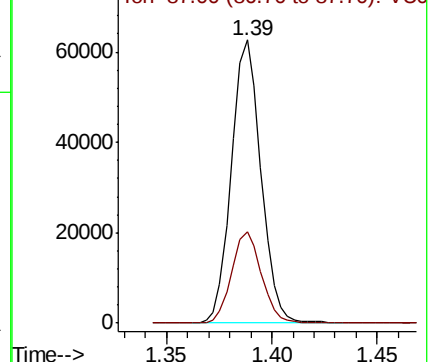
Ion Ratio Lower Upper

85 100

87 32.5 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VU041892.D (-7) (-)



#3

Chloromethane

Concen: 0.199 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU041896.D

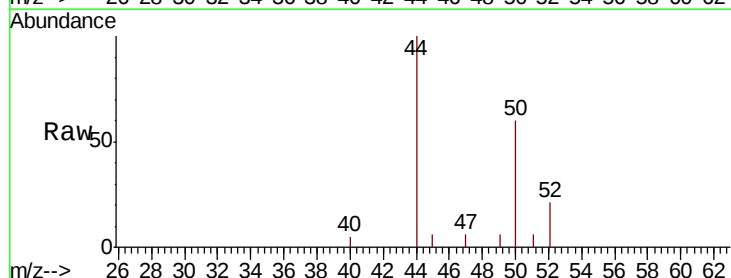
Acq: 08 Jan 2021 11:38

Tgt Ion: 50 Resp: 2272

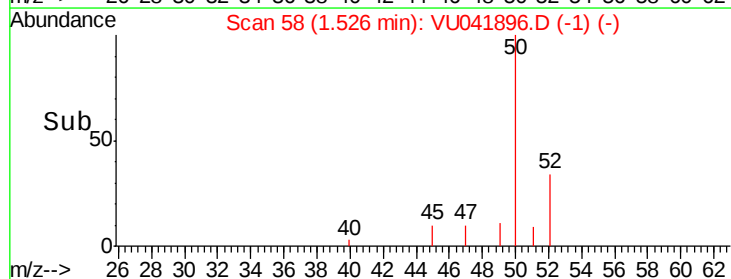
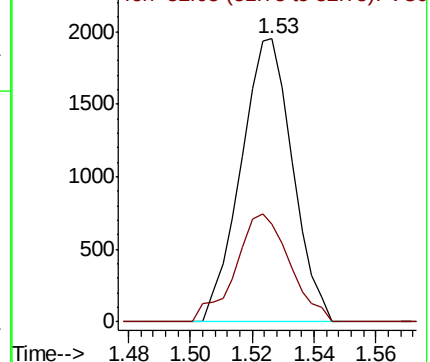
Ion Ratio Lower Upper

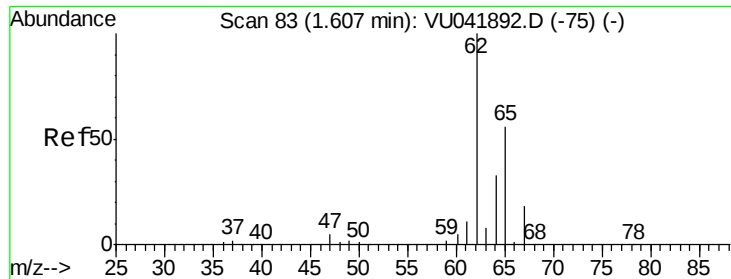
50 100

52 34.3 24.1 44.8



Abundance Ion 50.05 (49.75 to 50.75): VU041892.D (-48) (-)





#5

Vinyl chloride

Concen: 0.058 ug/L

RT: 1.61 min Scan# 83

Delta R.T. -0.00 min

Lab File: VU041896.D

Acq: 08 Jan 2021 11:38

Instrument :

MSVOA_U

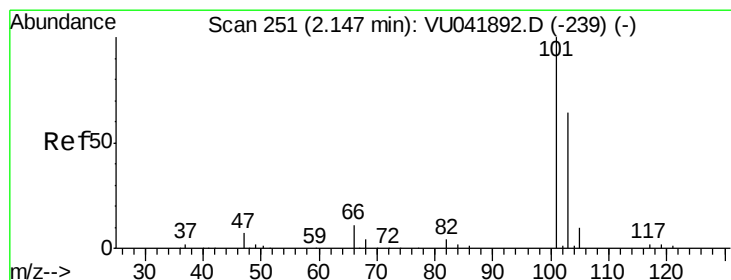
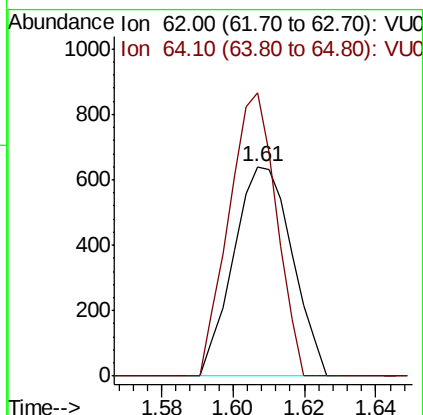
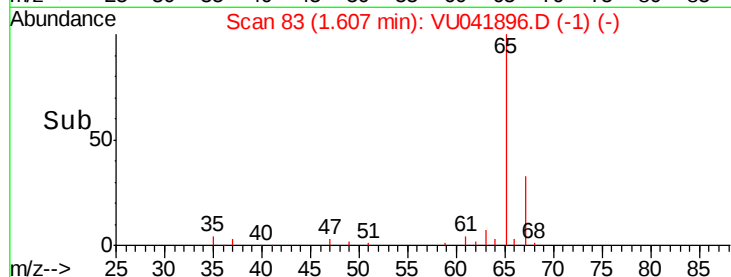
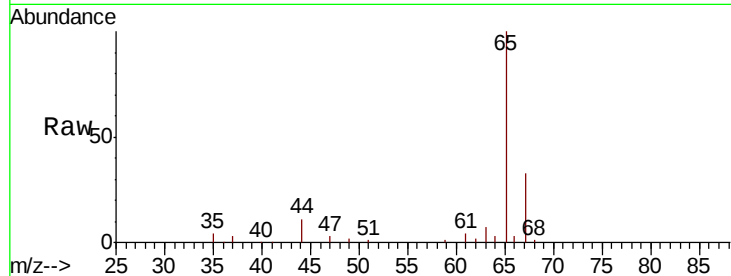
ClientSampleId :

Tot Ion: 62 Resp: 728

Ion Ratio Lower Upper

62 100

64 135.2 22.5 41.7#



#9

Trichlorofluoromethane

Concen: 0.379 ug/L

RT: 2.15 min Scan# 251

Delta R.T. -0.00 min

Lab File: VU041896.D

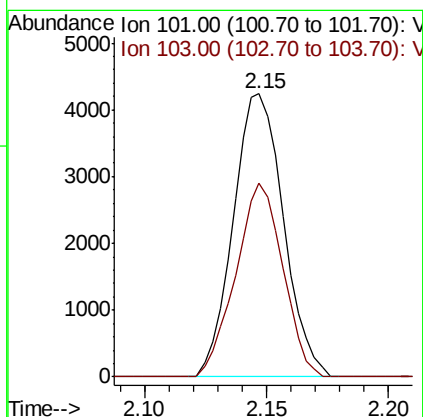
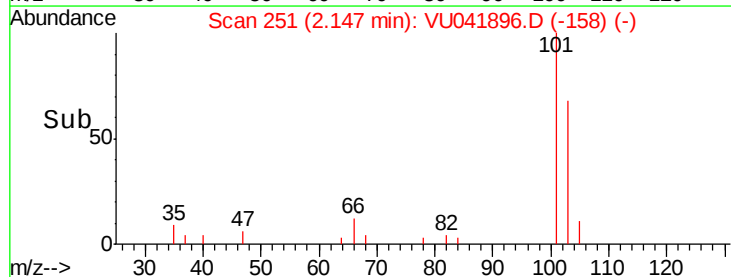
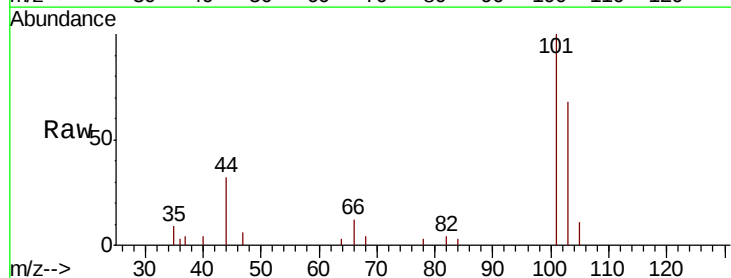
Acq: 08 Jan 2021 11:38

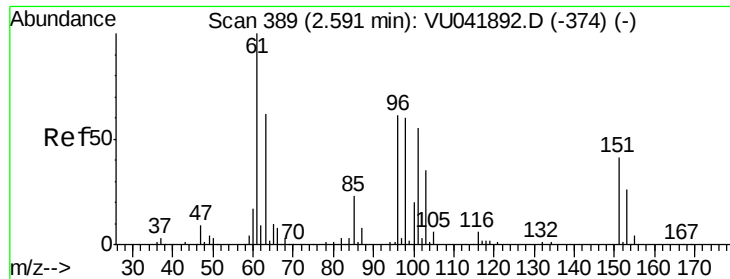
Tgt Ion: 101 Resp: 6041

Ion Ratio Lower Upper

101 100

103 64.2 51.1 76.7





#10

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

Concen: 0.104 ug/L

RT: 2.57 min Scan# 383

Delta R.T. -0.02 min

Lab File: VU041896.D

Acq: 08 Jan 2021 11:38

Instrument :

MSVOA_U

ClientSampleId :

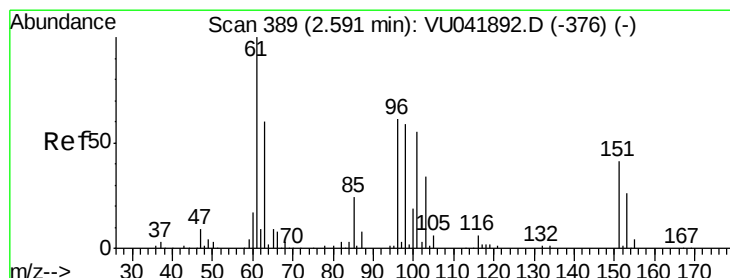
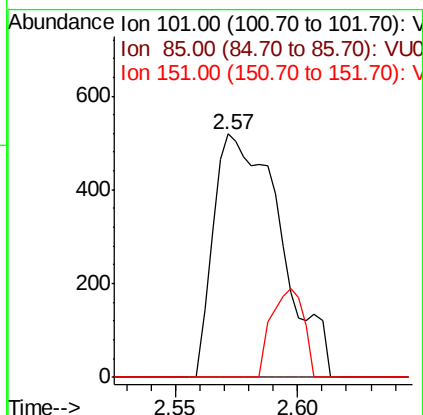
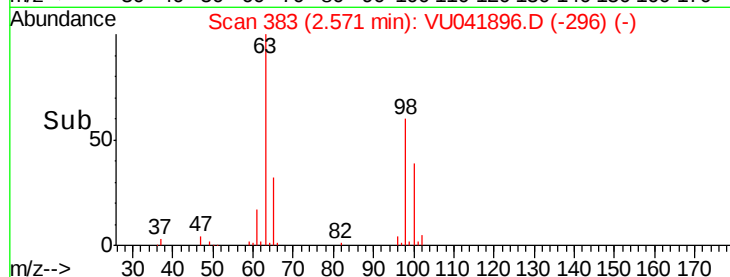
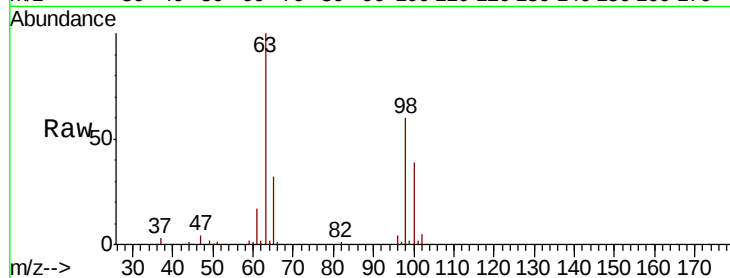
Tot Ion:101 Resp: 989

Ion Ratio Lower Upper

101 100

85 0.0 33.6 50.4#

151 17.7 56.2 84.4#



#12

1,1-Dichloroethene

Concen: 1.057 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU041896.D

Acq: 08 Jan 2021 11:38

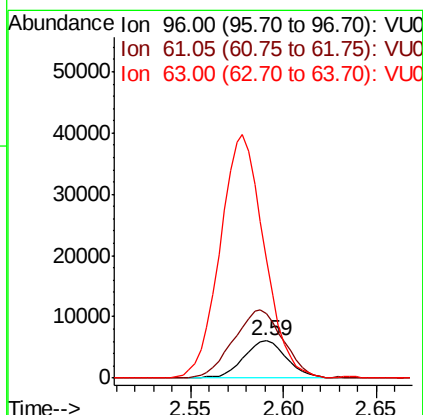
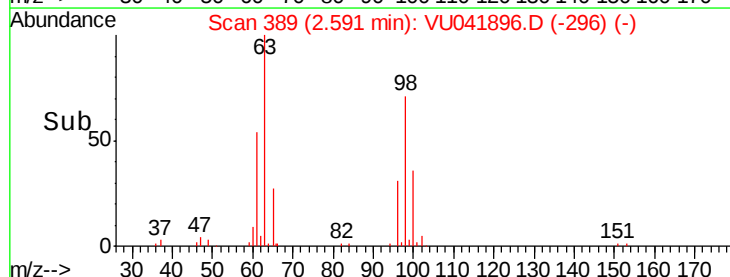
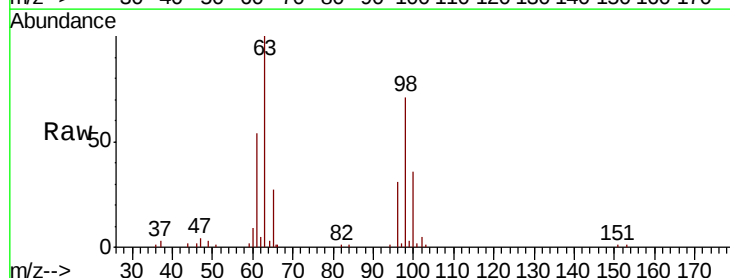
Tgt Ion: 96 Resp: 9924

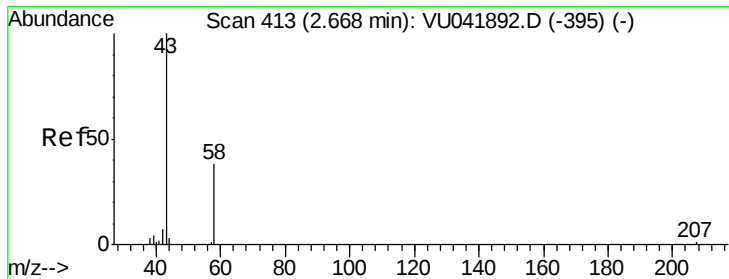
Ion Ratio Lower Upper

96 100

61 171.9 123.8 230.0

63 319.9 81.0 150.4#





#13

Acetone

Concen: 1.018 ug/L

RT: 2.67 min Scan# 413

Delta R.T. -0.00 min

Lab File: VU041896.D

Acq: 08 Jan 2021 11:38

Instrument :

MSVOA_U

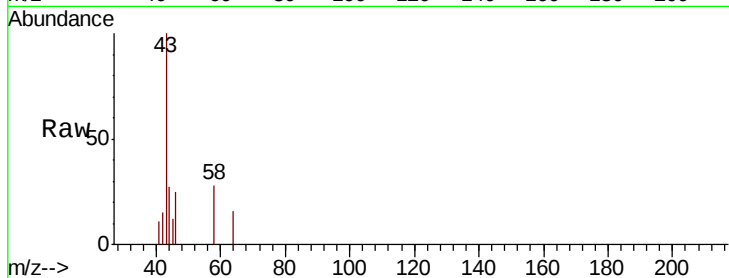
ClientSampled :

Tot Ion: 43 Resp: 2014

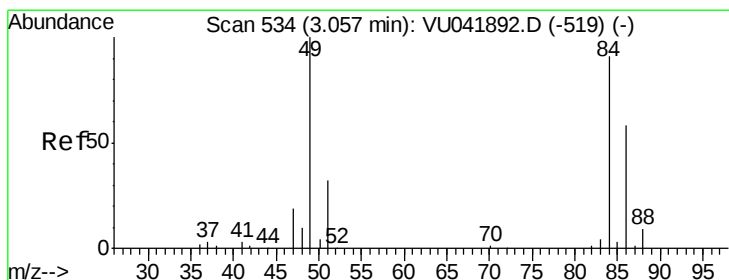
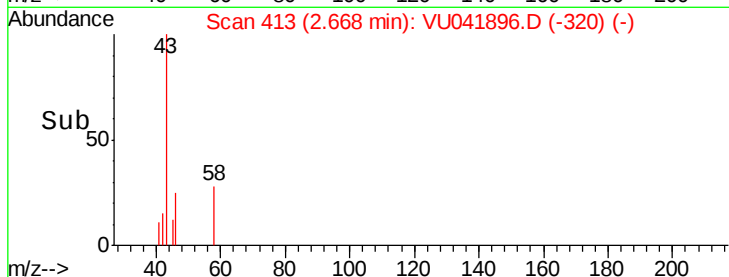
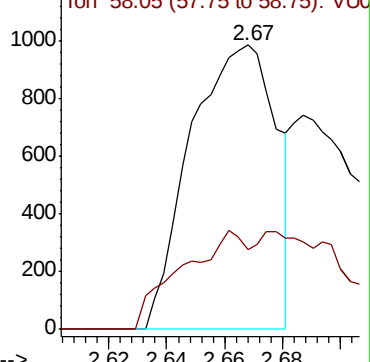
Ion Ratio Lower Upper

43 100

58 33.6 0.0 73.2



Abundance Ion 43.05 (42.75 to 43.75): VU041896.D (-395) (-)



#16

Methylene chloride

Concen: 0.111 ug/L

RT: 3.06 min Scan# 535

Delta R.T. 0.00 min

Lab File: VU041896.D

Acq: 08 Jan 2021 11:38

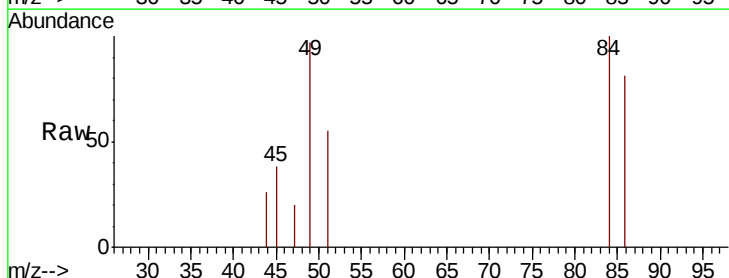
Tgt Ion: 84 Resp: 1248

Ion Ratio Lower Upper

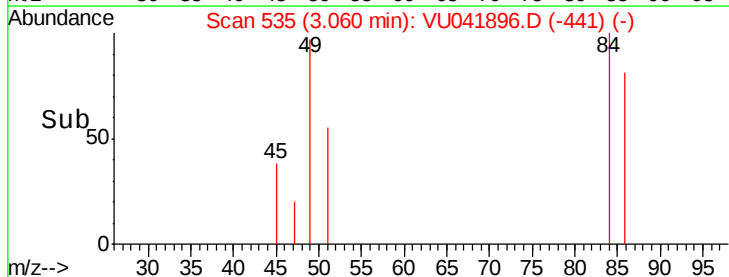
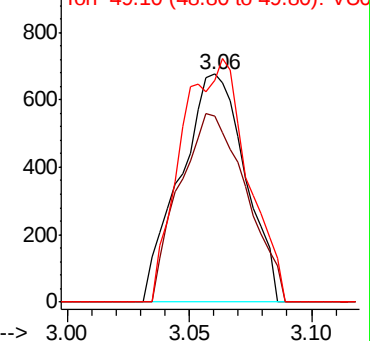
84 100

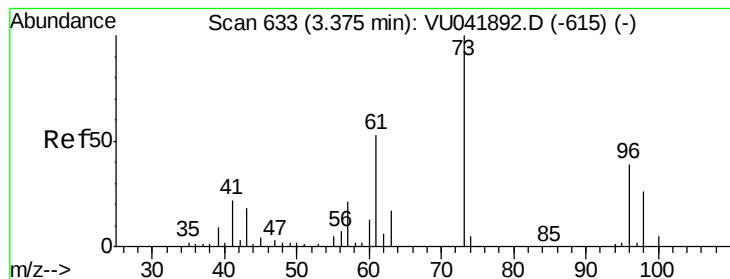
86 81.4 45.1 83.7

49 97.2 83.1 154.3



Abundance Ion 84.05 (83.75 to 84.75): VU041896.D (-441) (-)



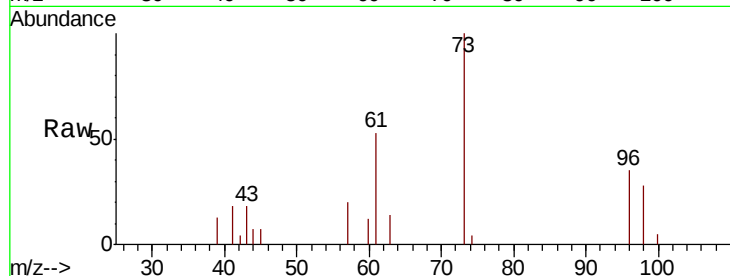


#17

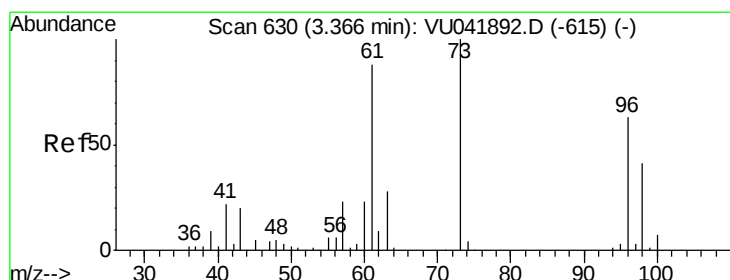
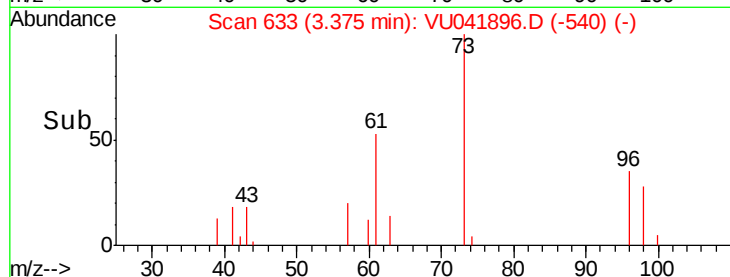
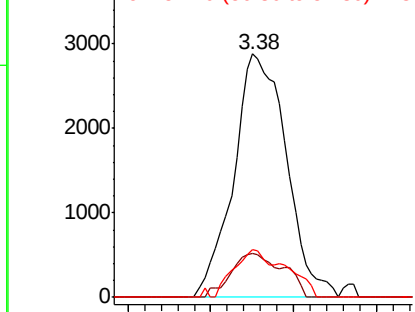
Methyl tert-butyl Ether
 Concen: 0.254 ug/L
 RT: 3.38 min Scan# 633
 Delta R.T. -0.00 min
 Lab File: VU041896.D
 Acq: 08 Jan 2021 11:38

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 73 Resp: 6371
 Ion Ratio Lower Upper
 73 100
 43 17.9 14.7 22.1
 57 19.2 18.2 27.4



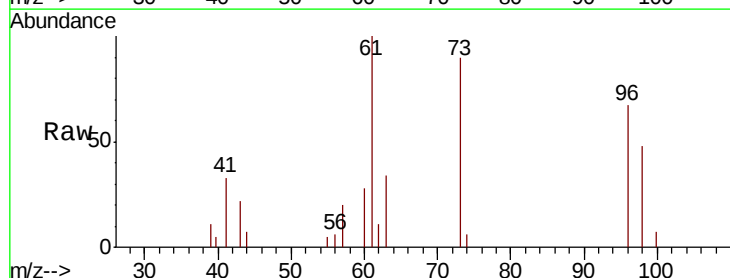
Abundance Ion 73.10 (72.80 to 73.80): VU0
 Ion 43.05 (42.75 to 43.75): VU0
 Ion 57.10 (56.80 to 57.80): VU0



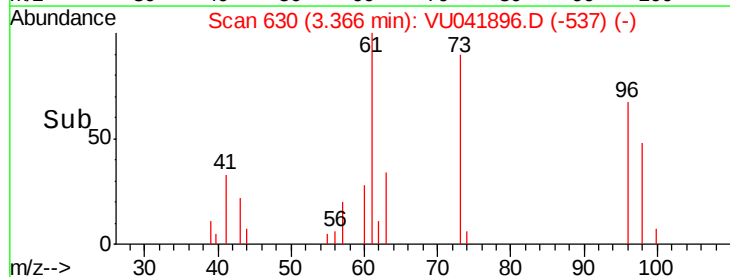
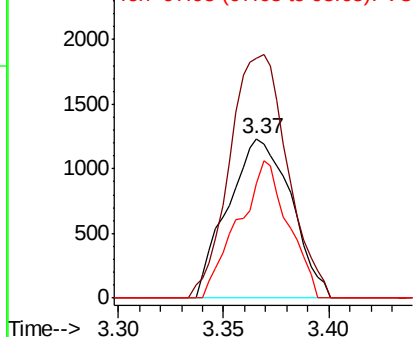
#18

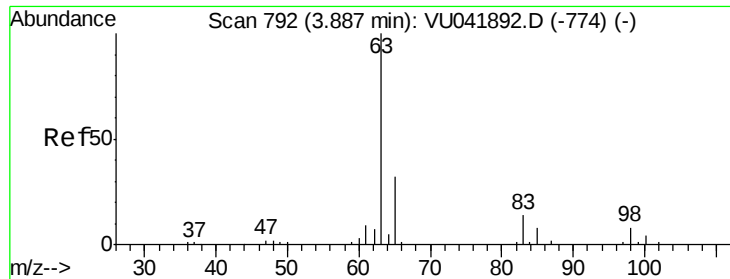
trans-1,2-Dichloroethene
 Concen: 0.265 ug/L
 RT: 3.37 min Scan# 630
 Delta R.T. -0.00 min
 Lab File: VU041896.D
 Acq: 08 Jan 2021 11:38

Tgt Ion: 96 Resp: 2576
 Ion Ratio Lower Upper
 96 100
 61 150.0 101.8 189.0
 98 71.5 44.4 82.5



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

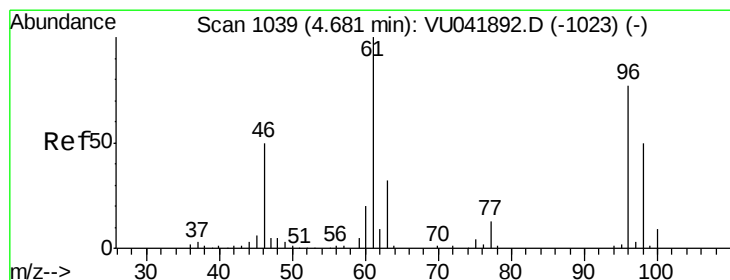
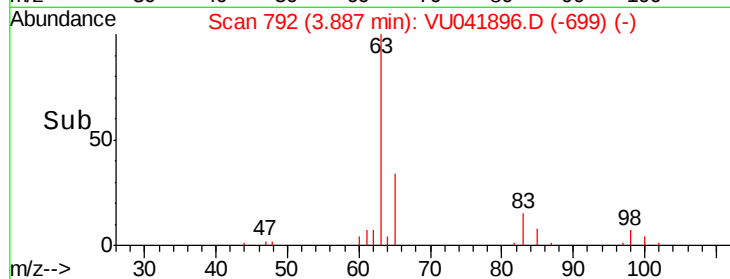
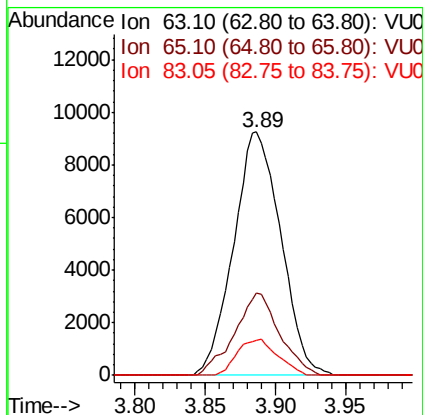
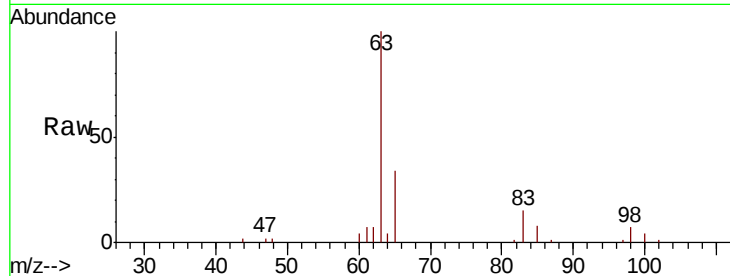




#19
 1,1-Dichloroethane
 Concen: 1.193 ug/L
 RT: 3.89 min Scan# 792
 Delta R.T. -0.00 min
 Lab File: VU041896.D
 Acq: 08 Jan 2021 11:38

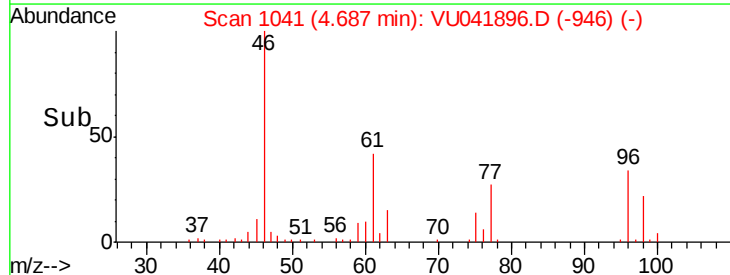
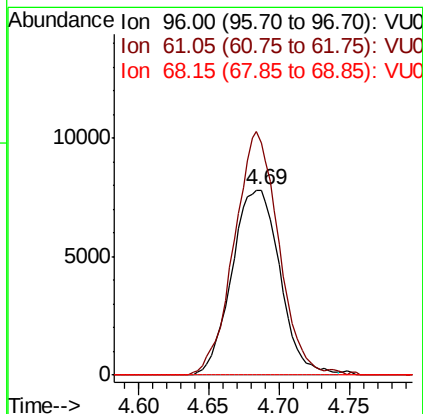
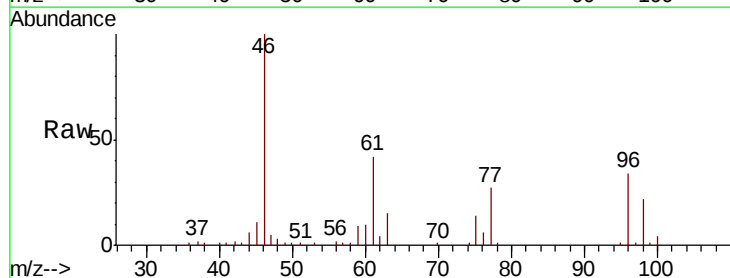
Instrument :
 MSVOA_U
 ClientSampleId :

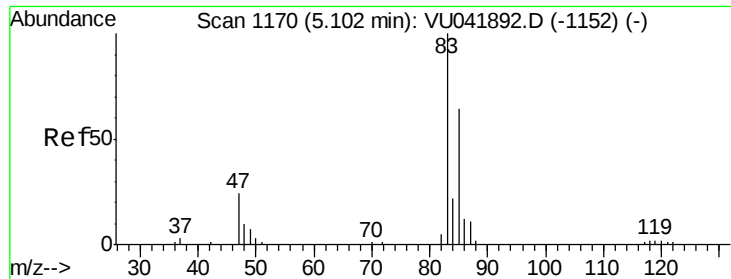
Tot Ion: 63 Resp: 21673
 Ion Ratio Lower Upper
 63 100
 65 33.6 21.3 39.6
 83 14.5 9.3 17.3



#22
 cis-1,2-Dichloroethene
 Concen: 1.732 ug/L
 RT: 4.69 min Scan# 1041
 Delta R.T. 0.01 min
 Lab File: VU041896.D
 Acq: 08 Jan 2021 11:38

Tgt Ion: 96 Resp: 18597
 Ion Ratio Lower Upper
 96 100
 61 125.3 88.8 165.0
 68 0.0 0.0 0.0

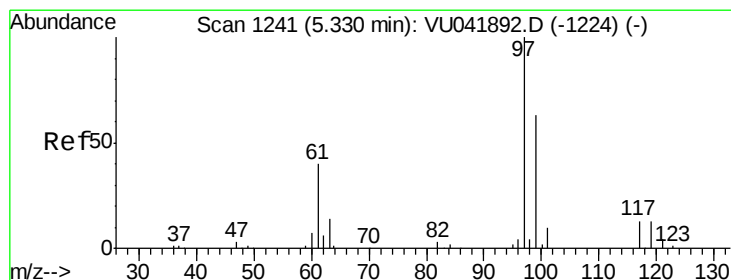
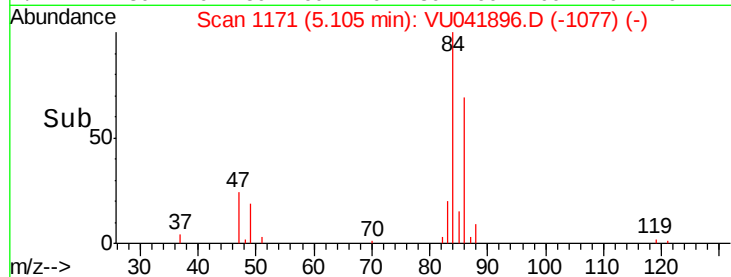
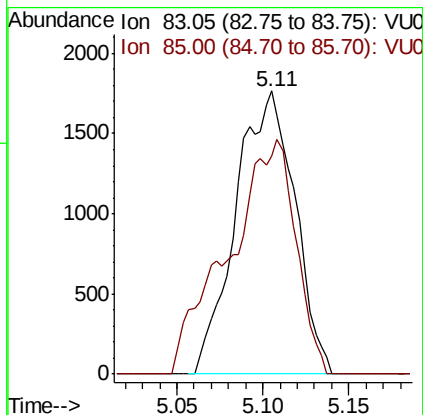
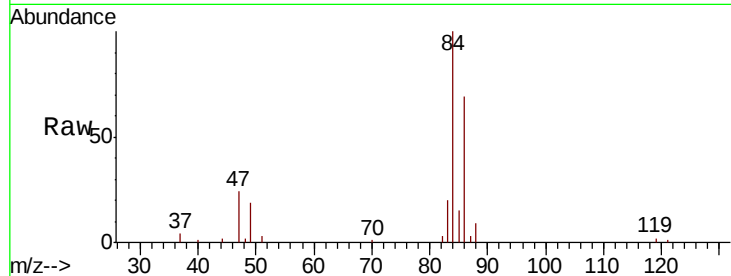




#25
Chloroform
Concen: 0.229 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. 0.00 min
Lab File: VU041896.D
Acq: 08 Jan 2021 11:38

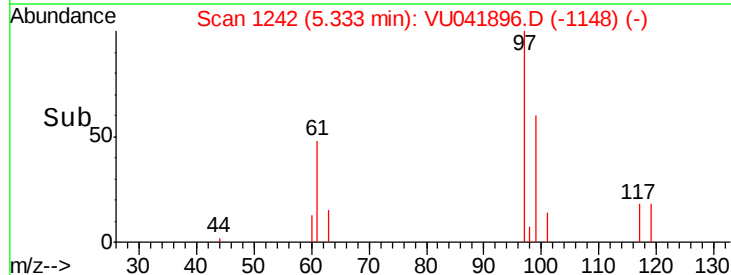
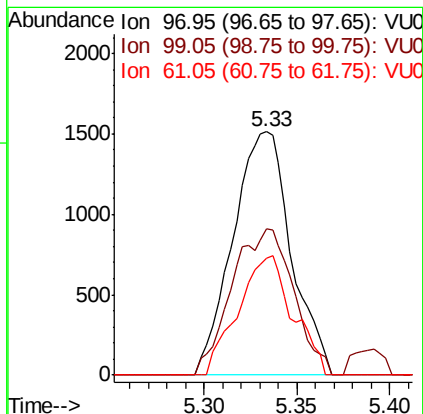
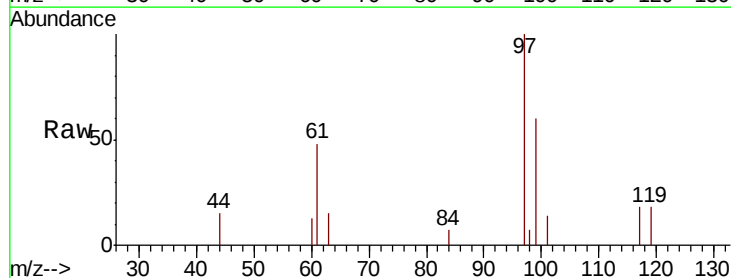
Instrument :
MSVOA_U
ClientSampled :

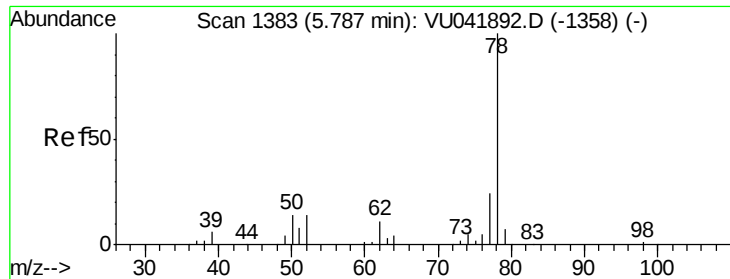
Tot Ion: 83 Resp: 4194
Ion Ratio Lower Upper
83 100
85 76.9 44.2 82.0



#29
1,1,1-Trichloroethane
Concen: 0.209 ug/L
RT: 5.33 min Scan# 1242
Delta R.T. 0.00 min
Lab File: VU041896.D
Acq: 08 Jan 2021 11:38

Tgt Ion: 97 Resp: 3324
Ion Ratio Lower Upper
97 100
99 63.5 51.3 76.9
61 45.8 36.5 54.7

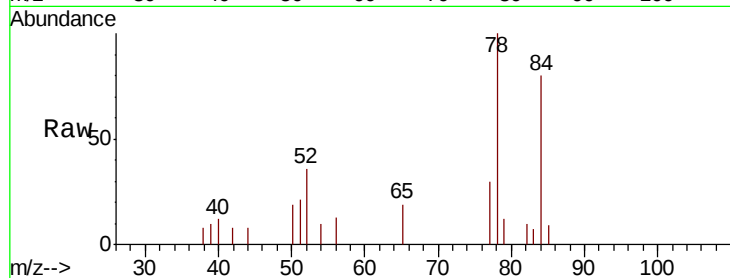




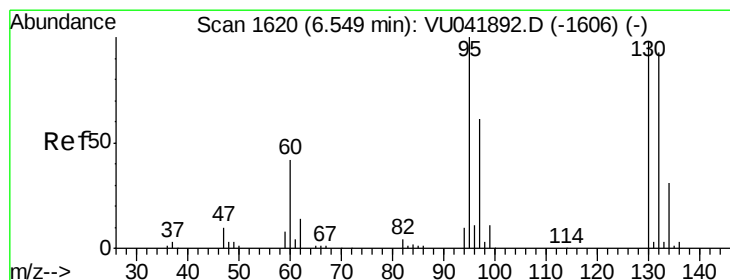
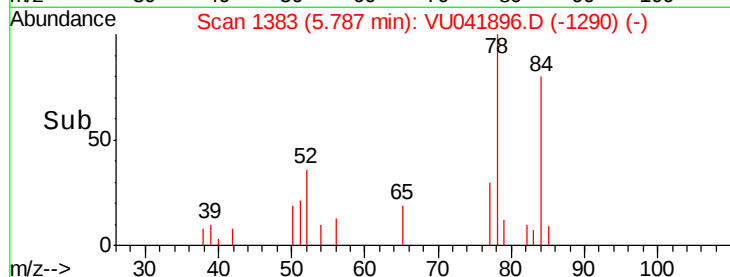
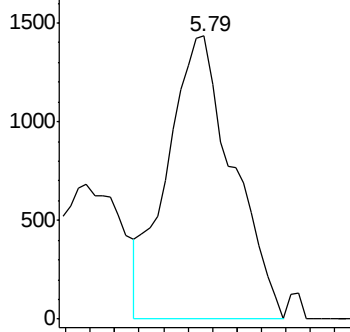
#33
Benzene
Concen: 0.061 ug/L
RT: 5.79 min Scan# 1383
Delta R.T. -0.00 min
Lab File: VU041896.D
Acq: 08 Jan 2021 11:38

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion: 78 Resp: 2690



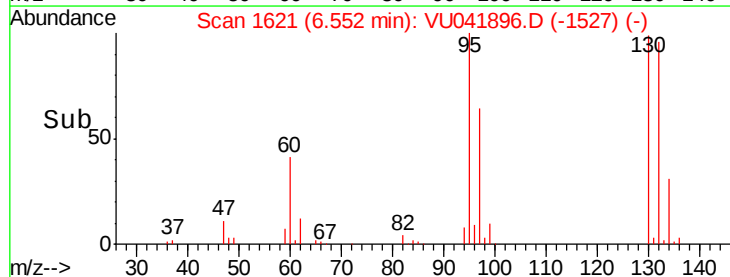
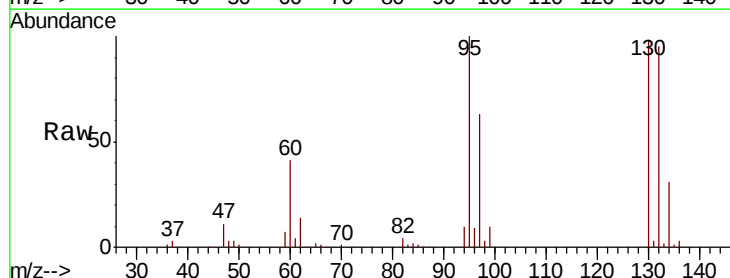
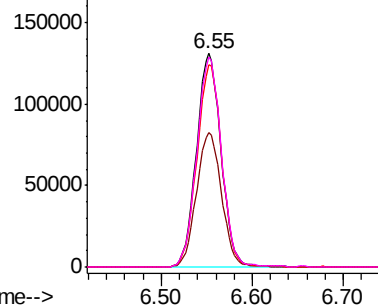
Abundance Ion 78.10 (77.80 to 78.80): VU0

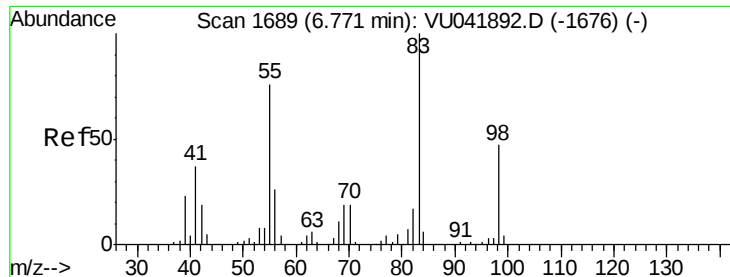


#34
Trichloroethene
Concen: 22.191 ug/L
RT: 6.55 min Scan# 1621
Delta R.T. 0.00 min
Lab File: VU041896.D
Acq: 08 Jan 2021 11:38

Tgt Ion: 95 Resp: 246715
Ion Ratio Lower Upper
95 100
97 62.9 43.9 81.5
132 94.9 63.1 117.3
130 98.5 67.4 125.2

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

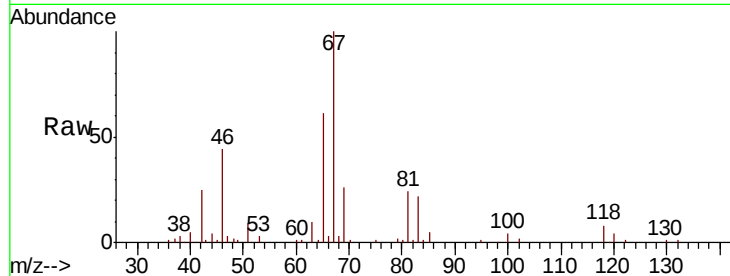




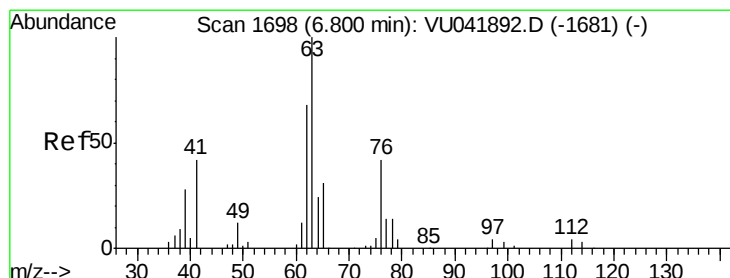
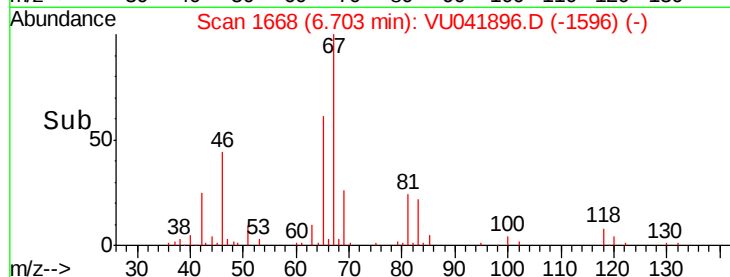
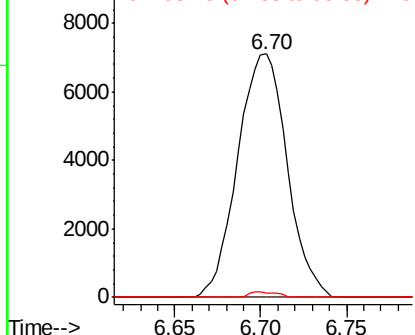
#35
Methvlcvclohexane
Concen: 0.788 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.07 min
Lab File: VU041896.D
Acq: 08 Jan 2021 11:38

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 83 Resp: 14170
Ion Ratio Lower Upper
83 100
55 0.0 61.2 91.8#
98 0.0 36.6 54.8#

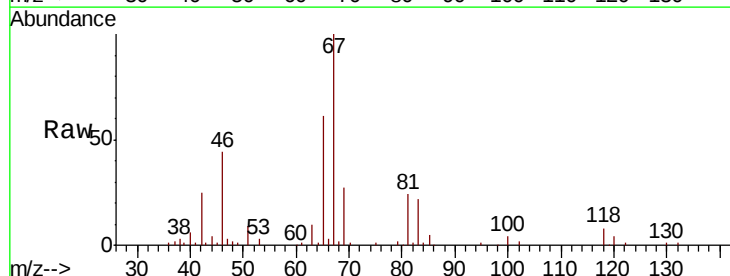


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

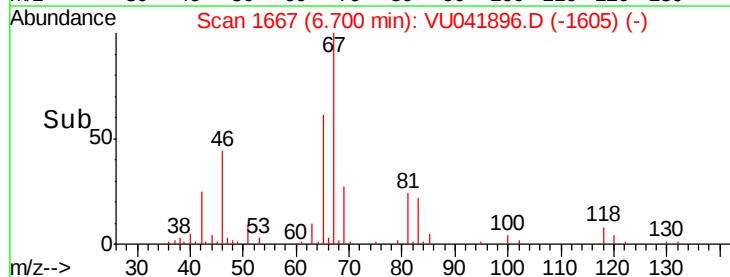
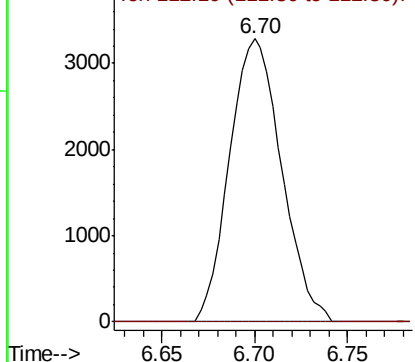


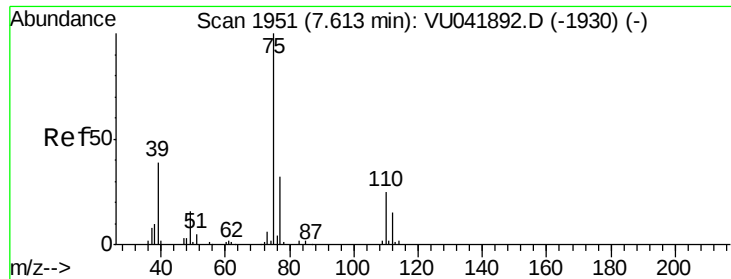
#37
1,2-Dichloropropane
Concen: 0.567 ug/L
RT: 6.70 min Scan# 1667
Delta R.T. -0.10 min
Lab File: VU041896.D
Acq: 08 Jan 2021 11:38

Tgt Ion: 63 Resp: 6419
Ion Ratio Lower Upper
63 100
112 0.0 3.1 4.7#



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

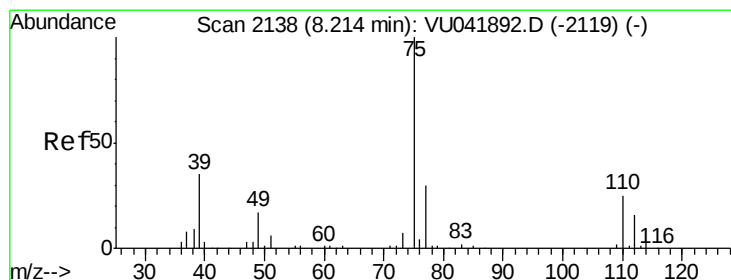
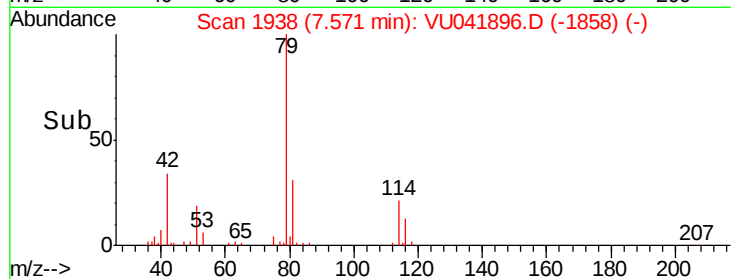
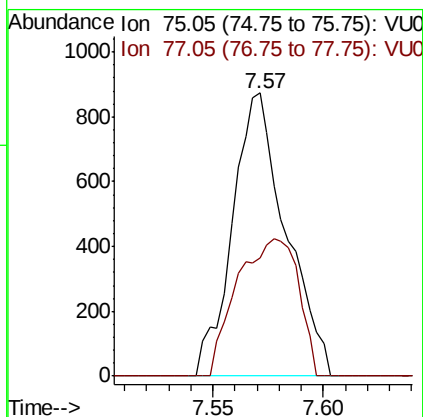
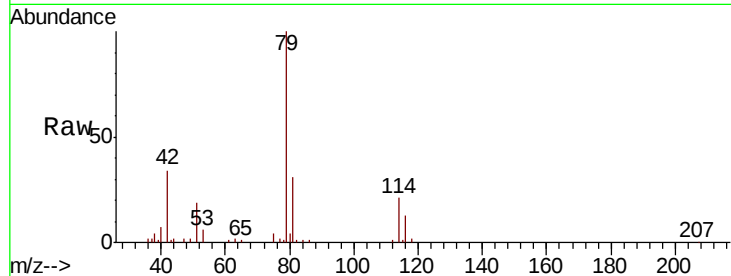




#39
cis-1,3-Dichloropropene
Concen: 0.088 ug/L
RT: 7.57 min Scan# 1938
Delta R.T. -0.04 min
Lab File: VU041896.D
Acq: 08 Jan 2021 11:38

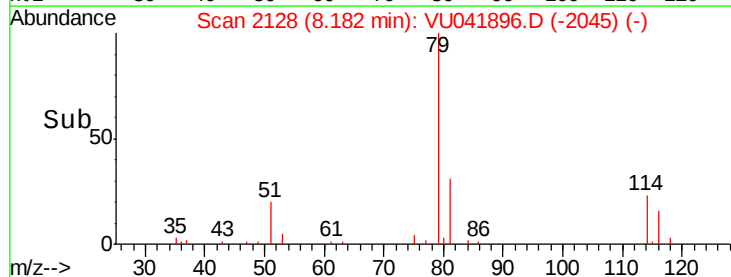
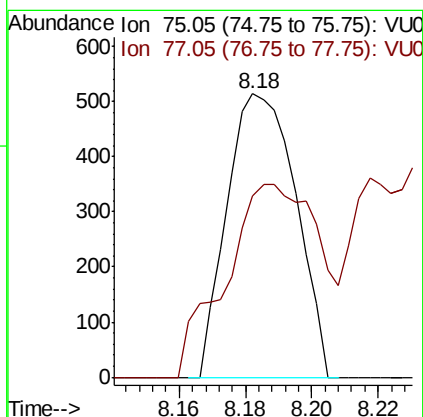
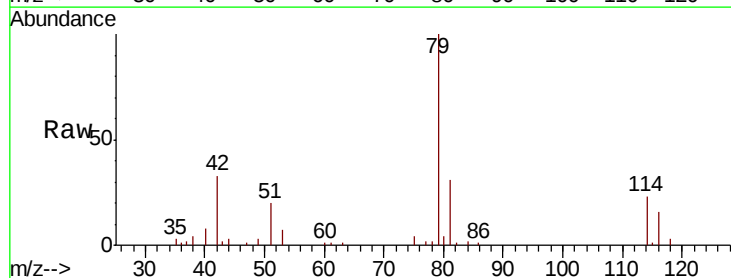
Instrument :
MSVOA_U
ClientSampleId :

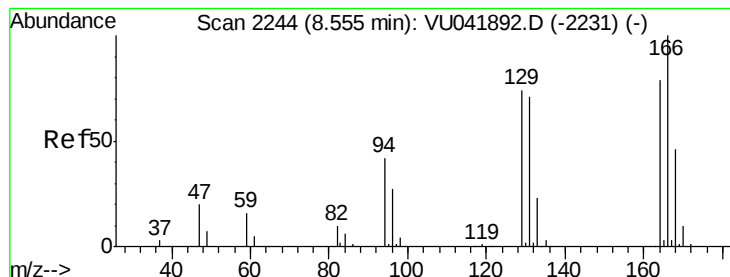
Tot Ion: 75 Resp: 1471
Ion Ratio Lower Upper
75 100
77 41.7 22.3 41.3#



#44
trans-1,3-Dichloropropene
Concen: 0.049 ug/L
RT: 8.18 min Scan# 2128
Delta R.T. -0.03 min
Lab File: VU041896.D
Acq: 08 Jan 2021 11:38

Tgt Ion: 75 Resp: 739
Ion Ratio Lower Upper
75 100
77 64.0 23.8 44.2#





#47

Tetrachloroethene

Concen: 49.180 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.00 min

Lab File: VU041896.D

Acq: 08 Jan 2021 11:38

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:164 Resp: 382764

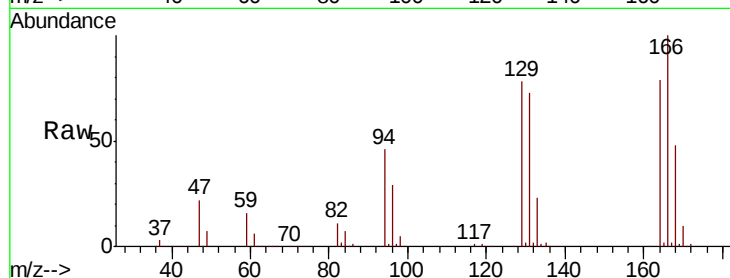
Ion Ratio Lower Upper

164 100

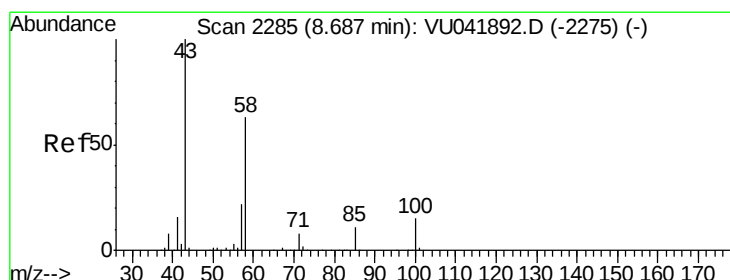
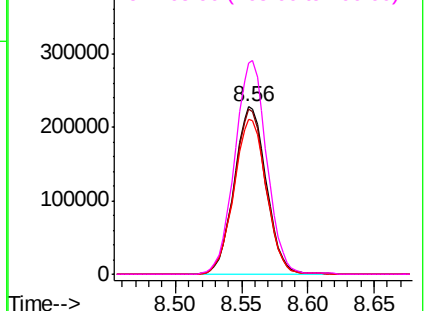
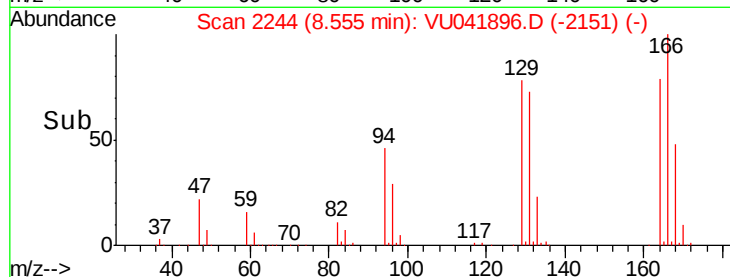
129 98.5 72.2 134.0

131 92.6 66.9 124.3

166 126.4 89.6 166.4



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



#48

2-Hexanone

Concen: 2.863 ug/L

RT: 8.64 min Scan# 2270

Delta R.T. -0.05 min

Lab File: VU041896.D

Acq: 08 Jan 2021 11:38

Tgt Ion: 43 Resp: 16777

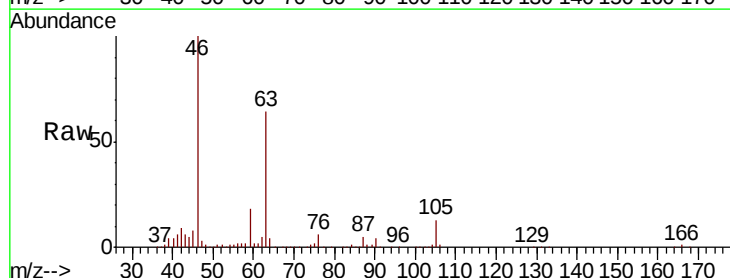
Ion Ratio Lower Upper

43 100

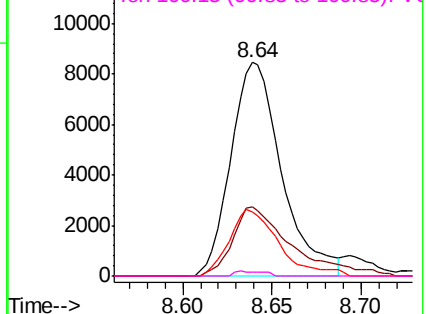
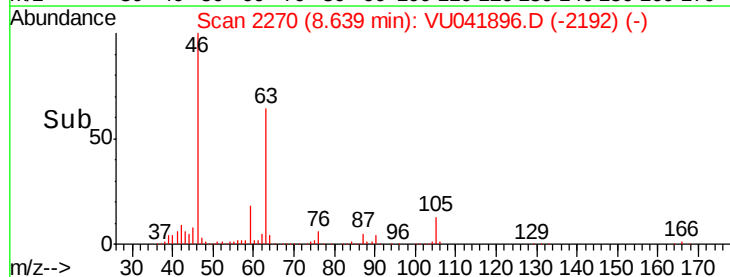
58 37.4 47.9 71.9#

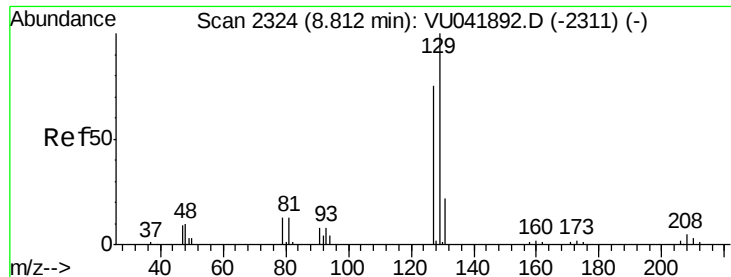
57 30.2 16.5 24.7#

100 1.2 9.4 14.2#



Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

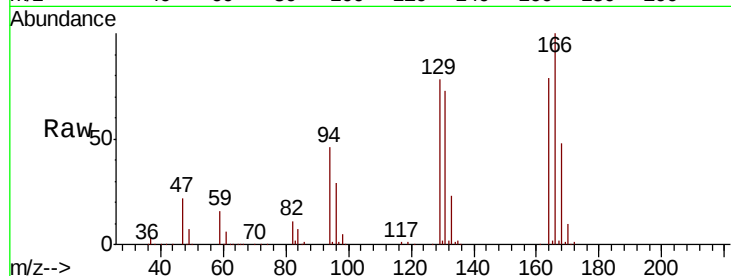




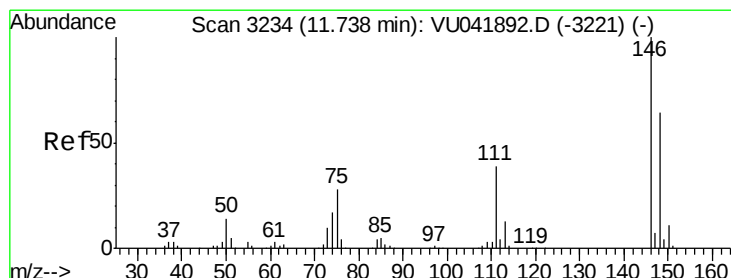
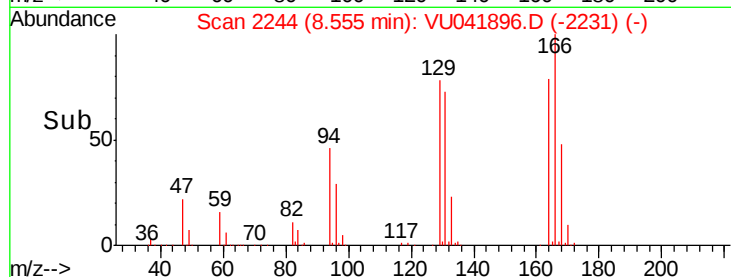
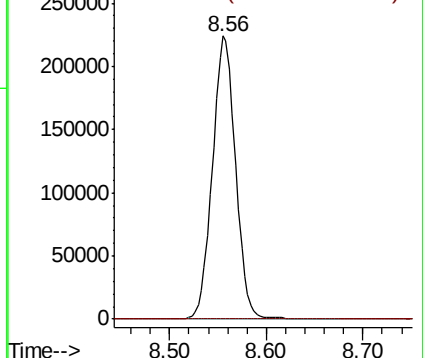
#49
 Dibromochloromethane
 Concen: 38.458 ug/L
 RT: 8.56 min Scan# 2244
 Delta R.T. -0.26 min
 Lab File: VU041896.D
 Acq: 08 Jan 2021 11:38

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion:129 Resp: 369703
 Ion Ratio Lower Upper
 129 100
 127 0.0 54.7 101.7#

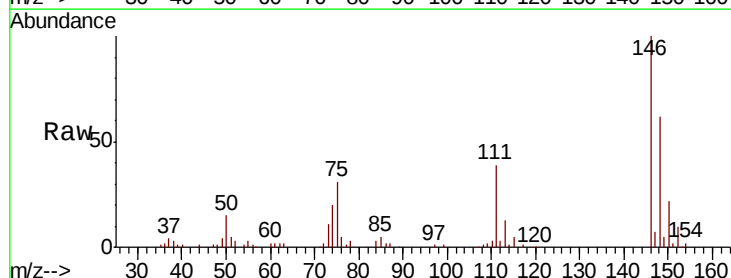


Abundance Ion 128.95 (128.65 to 129.65): V
 Ion 126.90 (126.60 to 127.60): V

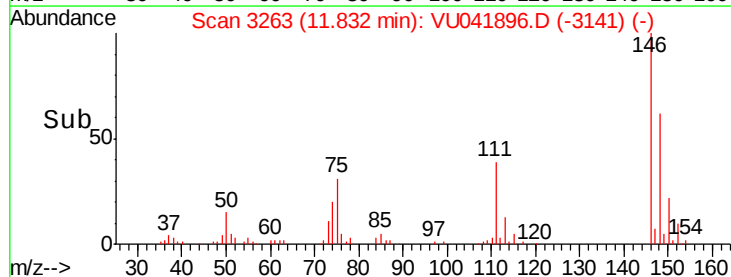
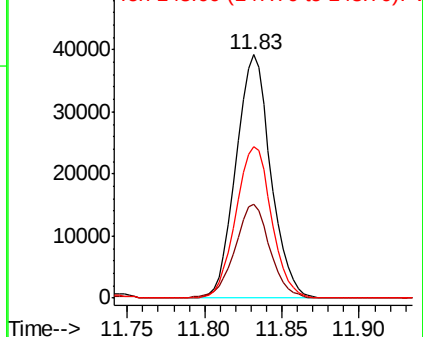


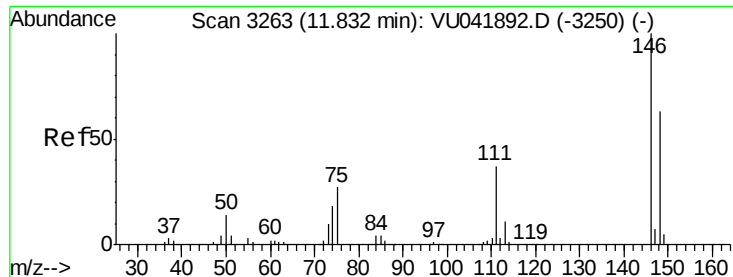
#62
 1,3-Dichlorobenzene
 Concen: 3.407 ug/L
 RT: 11.83 min Scan# 3263
 Delta R.T. 0.09 min
 Lab File: VU041896.D
 Acq: 08 Jan 2021 11:38

Tgt Ion:146 Resp: 61124
 Ion Ratio Lower Upper
 146 100
 111 38.7 30.0 55.8
 148 62.1 44.9 83.3



Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V





#63

1,4-Dichlorobenzene

Concen: 3.389 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. -0.00 min

Lab File: VU041896.D

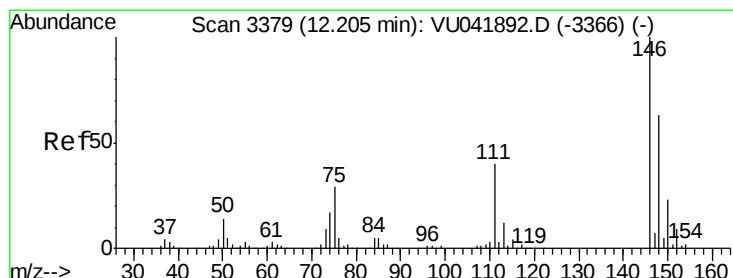
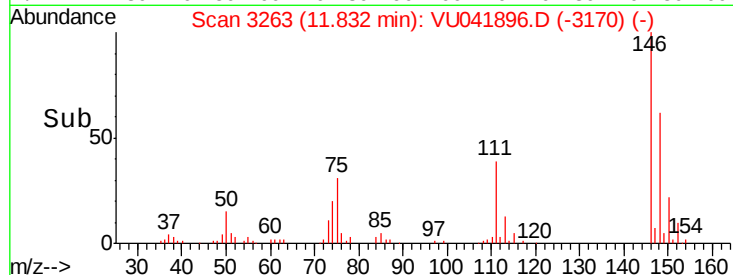
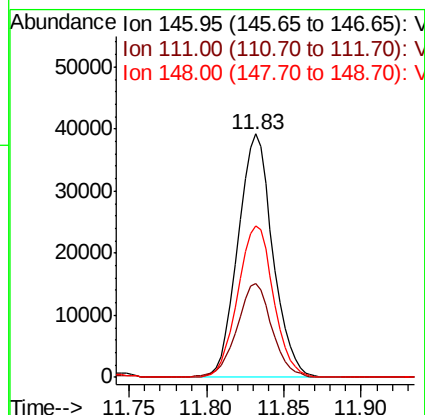
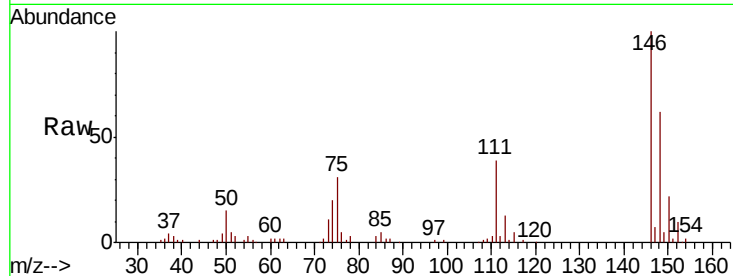
Acq: 08 Jan 2021 11:38

Instrument :

MSVOA_U

ClientSampled :

Tot Ion:146	Resp:	61124
Ion	Ratio	Lower Upper
146	100	
111	38.7	27.9 51.9
148	62.1	45.0 83.6



#65

1,2-Dichlorobenzene

Concen: 2.543 ug/L

RT: 12.20 min Scan# 3379

Delta R.T. -0.00 min

Lab File: VU041896.D

Acq: 08 Jan 2021 11:38

Tgt Ion:146	Resp:	44666
Ion	Ratio	Lower Upper
146	100	
111	39.6	35.0 52.6
148	61.2	51.0 76.6

