

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101620\
 Data File : VU040740.D
 Acq On : 16 Oct 2020 11:42
 Operator : SY/MD
 Sample : L4419-02
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AG9

Quant Time: Oct 16 23:40:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Oct 16 23:38:52 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	110122	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	115840	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	47851	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	38567	4.23	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	84.60%
7) Chloroethane-d5	1.92	69	36160	5.14	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	102.80%
11) 1,1-Dichloroethene-d2	2.59	63	249448	13.98	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	279.60%#
20) 2-Butanone-d5	4.66	46	145340	49.77	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	99.54%
24) Chloroform-d	5.08	84	84823	5.30	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	106.00%
26) 1,2-Dichloroethane-d4	5.72	65	52300	5.36	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	107.20%
32) Benzene-d6	5.74	84	153092	4.90	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.00%
36) 1,2-Dichloropropane-d6	6.70	67	53716	5.18	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	103.60%
41) Toluene-d8	7.91	98	120057	4.29	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.80%
43) trans-1,3-Dichloropropene-	8.18	79	19000	4.32	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.40%
46) 2-Hexanone-d5	8.64	63	99010	43.73	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	87.46%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	45389	4.88	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.60%
64) 1,2-Dichlorobenzene-d4	12.19	152	49192	5.54	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	110.80%

Target Compounds

					Ovalue
3) Chloromethane	1.53	50	535	0.057 ug/L #	83
5) Vinyl chloride	1.61	62	492	0.050 ug/L #	1
8) Chloroethane	1.95	64	331	0.053 ug/L #	41
9) Trichlorofluoromethane	2.15	101	667	0.047 ug/L	88
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	1206	0.132 ug/L #	24
12) 1,1-Dichloroethene	2.59	96	325386	41.411 ug/L #	77
13) Acetone	2.67	43	3898	1.722 ug/L	77
15) Methyl Acetate	2.97	43	574	0.111 ug/L #	56
18) trans-1,2-Dichloroethene	3.37	96	964	0.117 ug/L #	88
19) 1,1-Dichloroethane	3.89	63	13606	0.800 ug/L	99
22) cis-1,2-Dichloroethene	4.68	96	52714	5.943 ug/L	97
25) Chloroform	5.10	83	10834	0.624 ug/L	96
27) 1,2-Dichloroethane	5.81	62	989	0.080 ug/L #	77
29) 1,1,1-Trichloroethane	5.33	97	31402	2.017 ug/L	98
31) Carbon tetrachloride	5.33	117	3639	0.273 ug/L	99
34) Trichloroethene	6.55	95	49353	5.116 ug/L	98
35) Methylcyclohexane	6.70	83	13008	0.951 ug/L #	14

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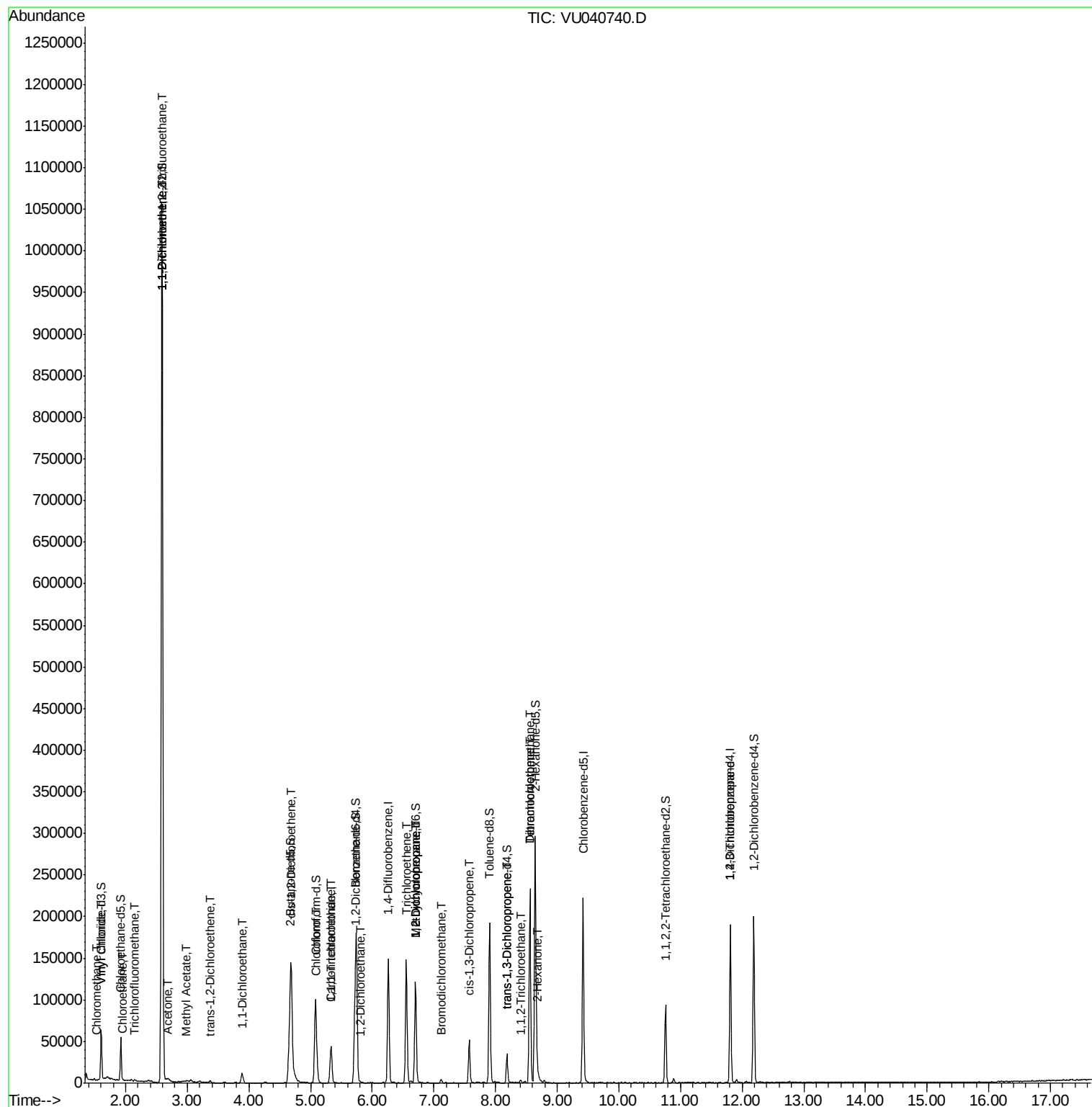
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,2-Dichloropropane	6.70	63	6021	0.581	ug/L #	87
38) Bromodichloromethane	7.11	83	2928	0.221	ug/L	99
39) cis-1,3-Dichloropropene	7.57	75	1322	0.093	ug/L #	60
44) trans-1,3-Dichloropropene	8.18	75	827	0.063	ug/L #	74
45) 1,1,2-Trichloroethane	8.40	97	1093	0.141	ug/L #	76
47) Tetrachloroethene	8.56	164	48636	7.067	ug/L	97
48) 2-Hexanone	8.68	43	3157	0.513	ug/L #	71
49) Dibromochloromethane	8.56	129	47704	5.338	ug/L #	9
59) 1,2,3-Trichloropropane	11.81	75	6740	0.885	ug/L #	86

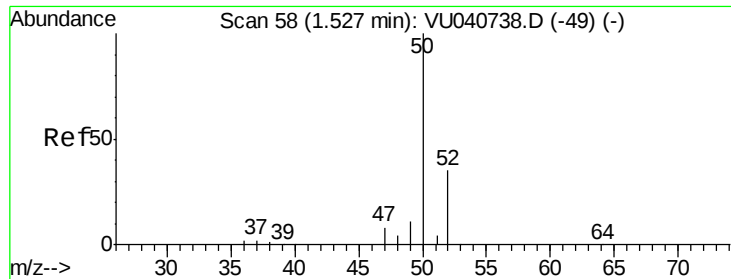
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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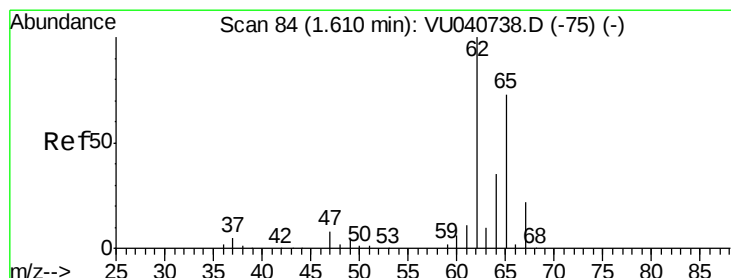
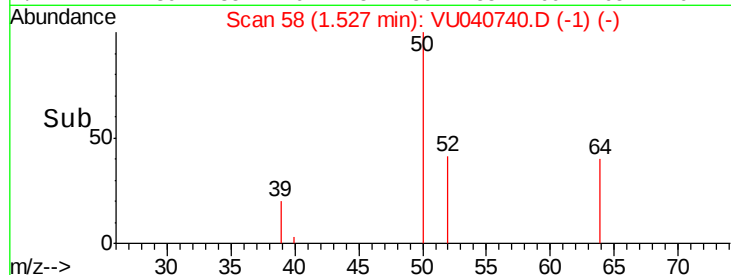
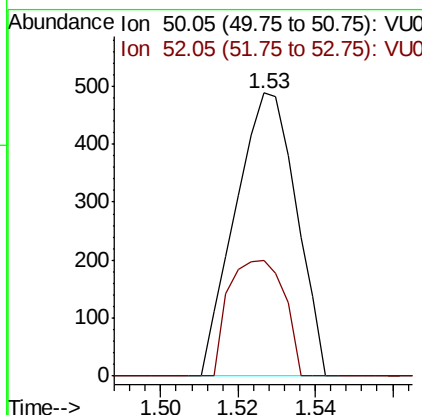
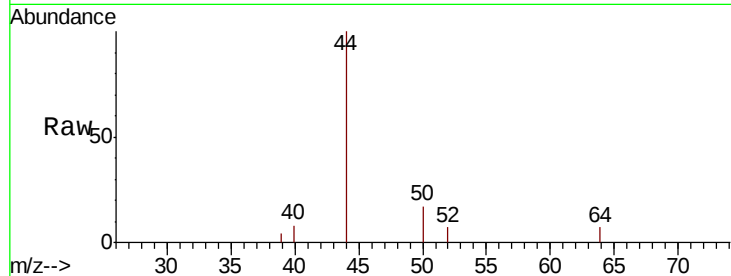




#3
 Chloromethane
 Concen: 0.057 ug/L
 RT: 1.53 min Scan# 58
 Delta R.T. 0.00 min
 Lab File: VU040740.D
 Acq: 16 Oct 2020 11:42

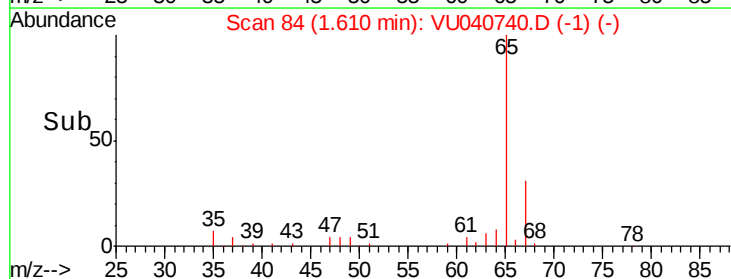
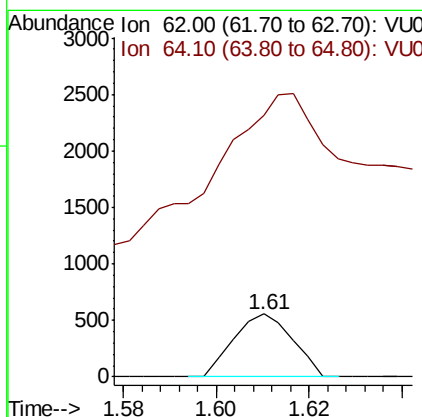
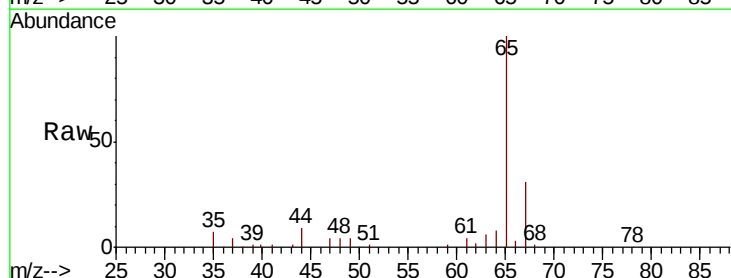
Instrument :
 MSVOA_U
 ClientSampled :
 C0AG9

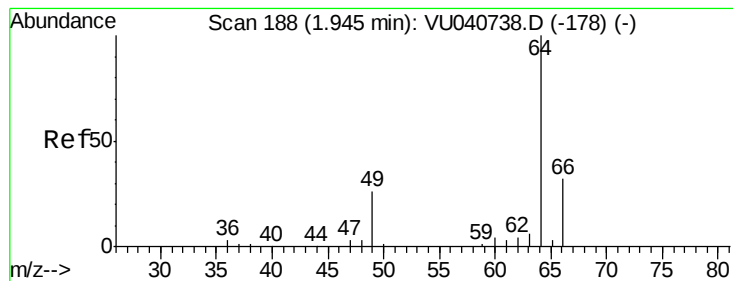
Tot Ion: 50 Resp: 535
 Ion Ratio Lower Upper
 50 100
 52 40.8 21.9 40.7#



#5
 Vinyl chloride
 Concen: 0.050 ug/L
 RT: 1.61 min Scan# 84
 Delta R.T. 0.00 min
 Lab File: VU040740.D
 Acq: 16 Oct 2020 11:42

Tgt Ion: 62 Resp: 492
 Ion Ratio Lower Upper
 62 100
 64 414.3 23.7 44.1#





#8

Chloroethane

Concen: 0.053 ug/L

RT: 1.95 min Scan# 191

Delta R.T. 0.01 min

Lab File: VU040740.D

Acq: 16 Oct 2020 11:42

Instrument :

MSVOA_U

ClientSampleId :

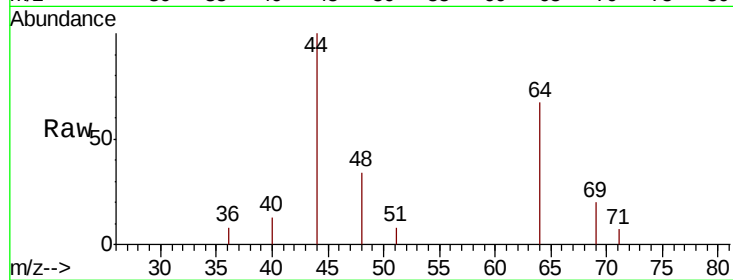
C0AG9

Tot Ion: 64 Resp: 331

Ion Ratio Lower Upper

64 100

66 0.0 23.3 43.3#



Abundance Ion 64.10 (63.80 to 64.80): VU040738.D (-178) (-)

Ion 66.05 (65.75 to 66.75): VU040738.D (-178) (-)

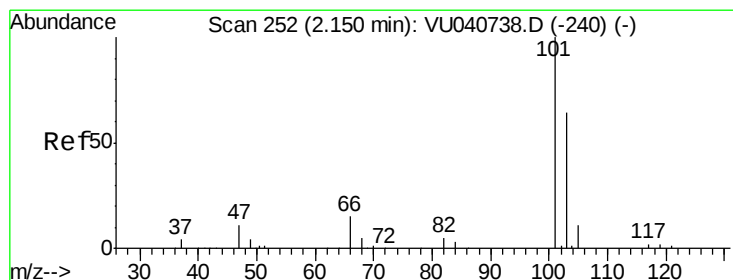
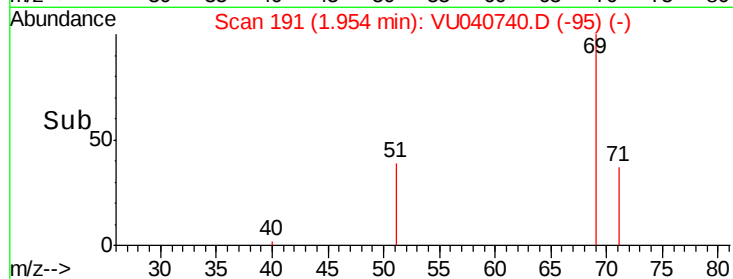
1.95

1000

500

0

Time-->



#9

Trichlorofluoromethane

Concen: 0.047 ug/L

RT: 2.15 min Scan# 252

Delta R.T. 0.00 min

Lab File: VU040740.D

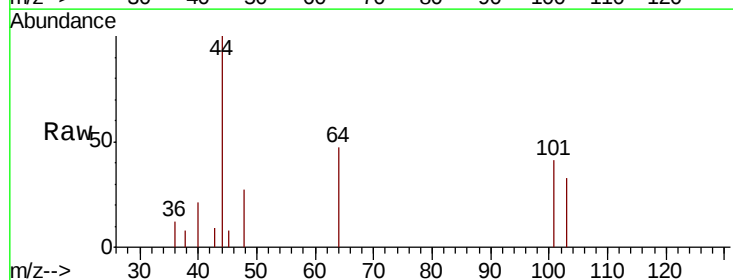
Acq: 16 Oct 2020 11:42

Tgt Ion: 101 Resp: 667

Ion Ratio Lower Upper

101 100

103 74.8 52.2 78.4



Abundance Ion 101.00 (100.70 to 101.70): VU040738.D (-240) (-)

Ion 103.00 (102.70 to 103.70): VU040738.D (-240) (-)

2.15

600

500

400

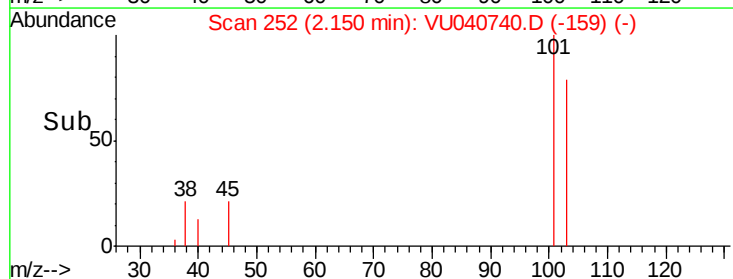
300

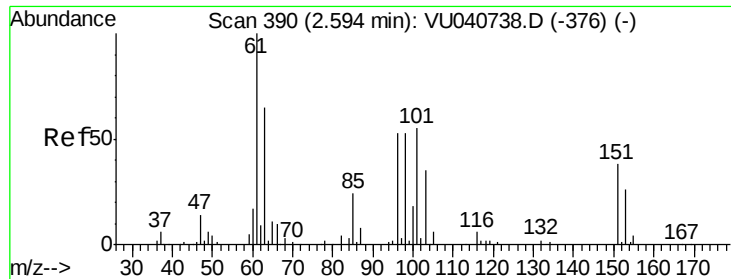
200

100

0

Time-->





#10

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

Concen: 0.132 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU040740.D

Acq: 16 Oct 2020 11:42

Instrument :

MSVOA_U

ClientSampleId :

C0AG9

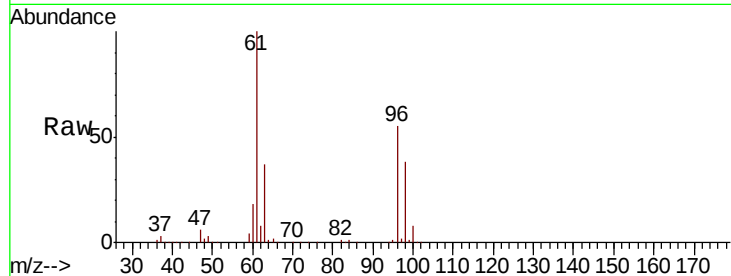
Tot Ion:101 Resp: 1206

Ion Ratio Lower Upper

101 100

85 6.6 36.7 55.1#

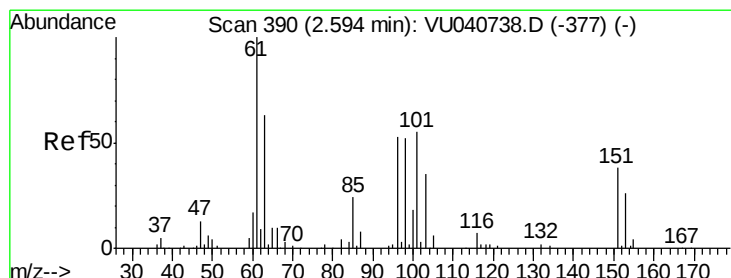
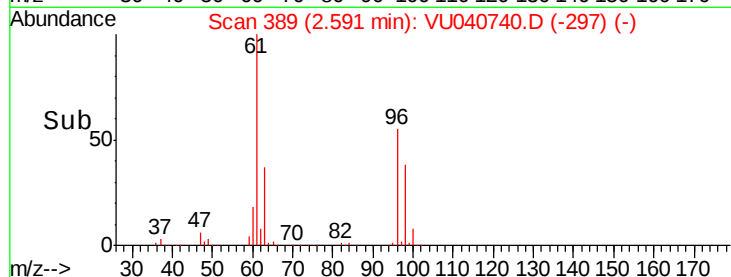
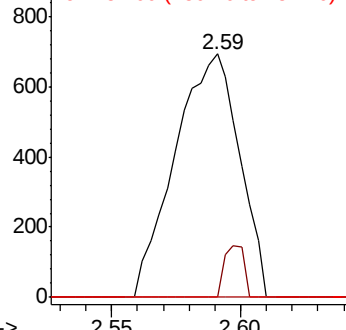
151 0.0 58.0 87.0#



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: 41.411 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU040740.D

Acq: 16 Oct 2020 11:42

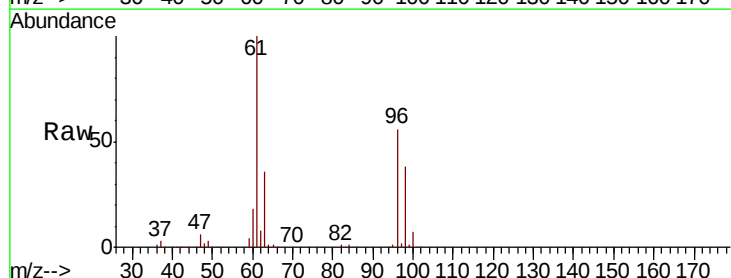
Tgt Ion: 96 Resp: 325386

Ion Ratio Lower Upper

96 100

61 178.0 128.8 239.2

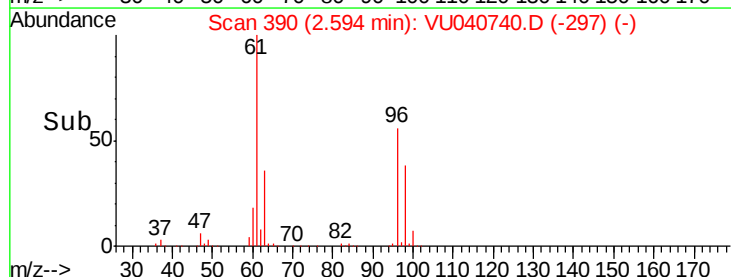
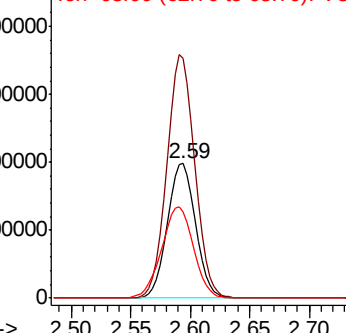
63 64.3 84.6 157.2#

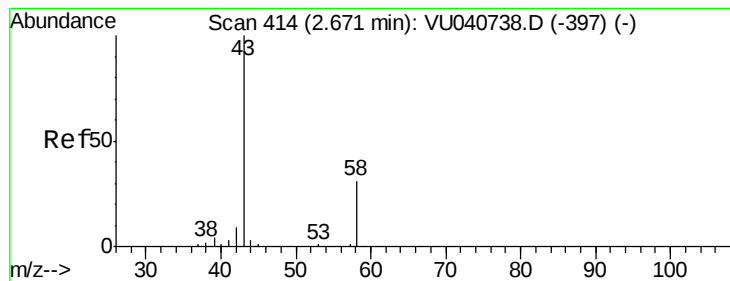


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 1.722 ug/L

RT: 2.67 min Scan# 415

Delta R.T. 0.00 min

Lab File: VU040740.D

Acq: 16 Oct 2020 11:42

Instrument :

MSVOA_U

ClientSampleId :

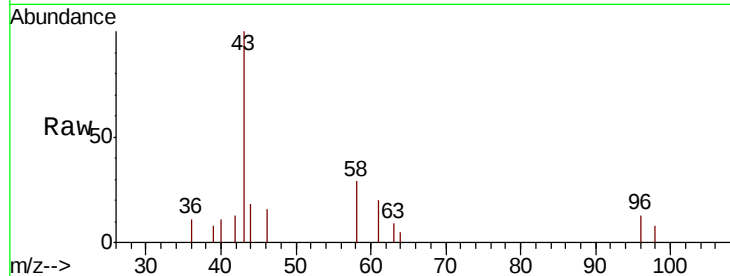
C0AG9

Tot Ion: 43 Resp: 3898

Ion Ratio Lower Upper

43 100

58 17.9 0.0 60.6



Abundance Ion 43.05 (42.75 to 43.75): VU040740.D (-415) (-)

Ion 58.05 (57.75 to 58.75): VU040740.D (-415) (-)

2.67

2000

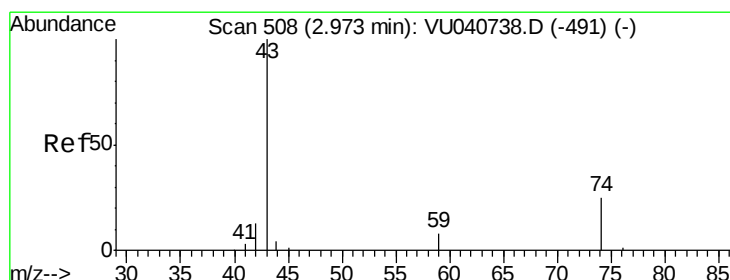
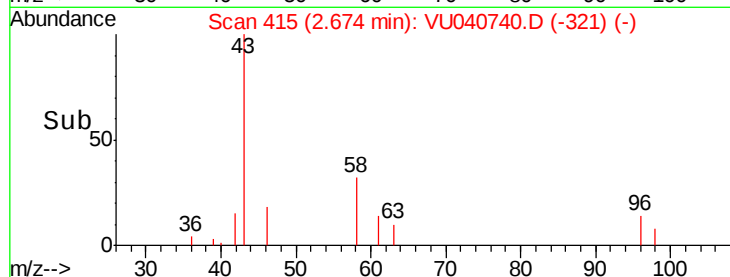
1500

1000

500

0

Time--> 2.60 2.65 2.70



#15

Methyl Acetate

Concen: 0.111 ug/L

RT: 2.97 min Scan# 507

Delta R.T. -0.00 min

Lab File: VU040740.D

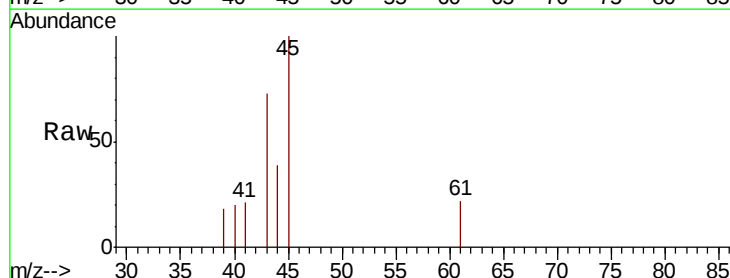
Acq: 16 Oct 2020 11:42

Tgt Ion: 43 Resp: 574

Ion Ratio Lower Upper

43 100

74 0.0 16.5 24.7#



Abundance Ion 43.05 (42.75 to 43.75): VU040740.D (-415) (-)

Ion 74.05 (73.75 to 74.75): VU040740.D (-415) (-)

2.97

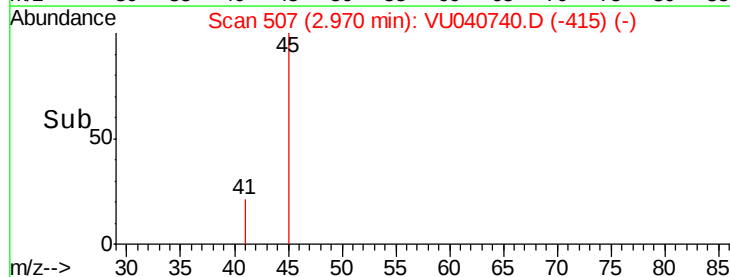
600

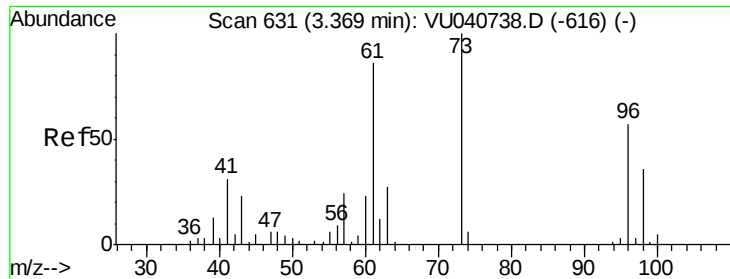
400

200

0

Time--> 2.94 2.96 2.98

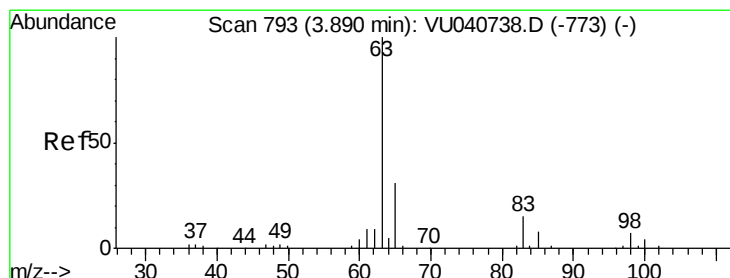
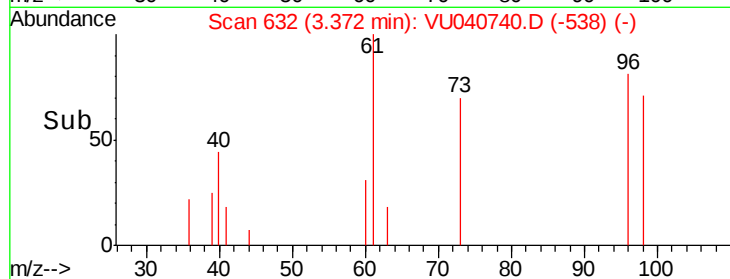
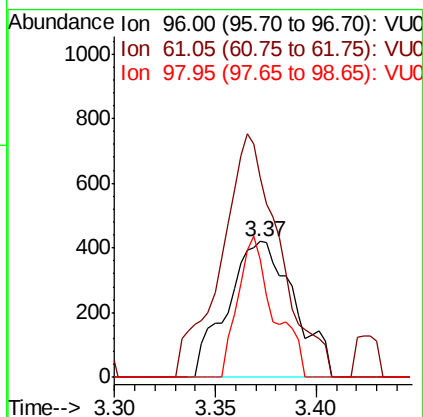
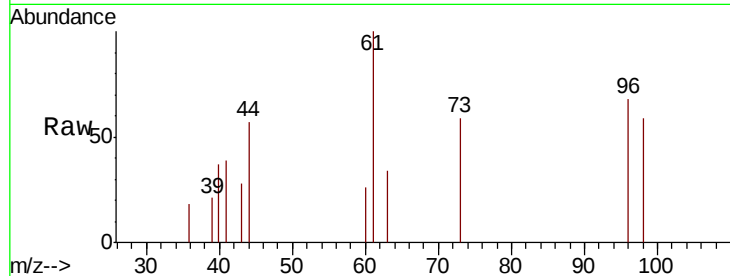




#18
trans-1,2-Dichloroethene
Concen: 0.117 ug/L
RT: 3.37 min Scan# 632
Delta R.T. 0.00 min
Lab File: VU040740.D
Acq: 16 Oct 2020 11:42

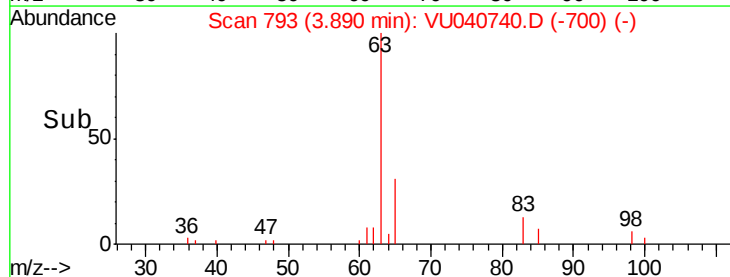
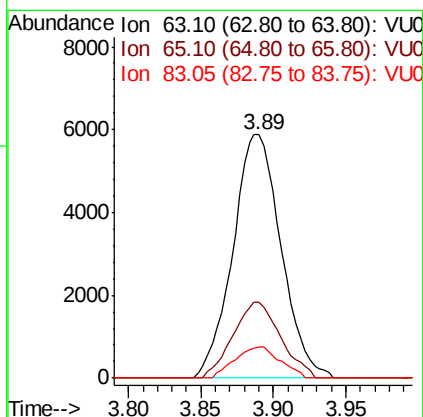
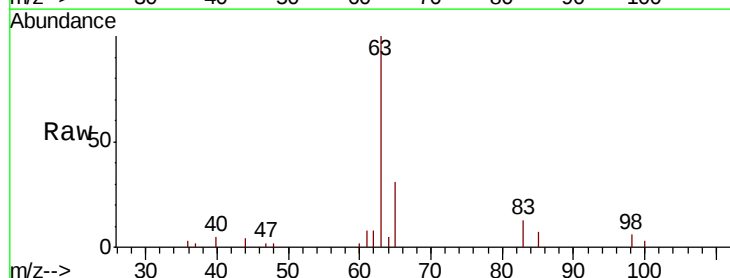
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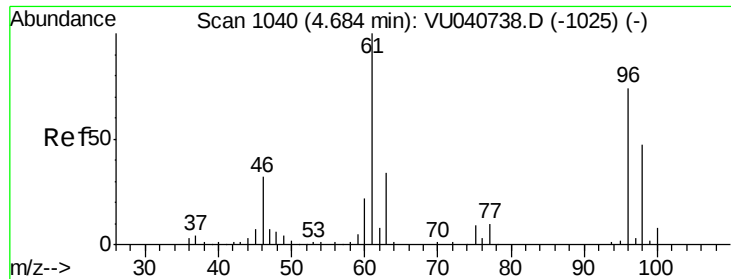
Tot Ion: 96 Resp: 964
Ion Ratio Lower Upper
96 100
61 147.5 105.9 196.7
98 87.4 43.8 81.3#



#19
1,1-Dichloroethane
Concen: 0.800 ug/L
RT: 3.89 min Scan# 793
Delta R.T. 0.00 min
Lab File: VU040740.D
Acq: 16 Oct 2020 11:42

Tgt Ion: 63 Resp: 13606
Ion Ratio Lower Upper
63 100
65 31.1 21.9 40.7
83 13.0 9.6 17.8





#22

cis-1,2-Dichloroethene

Concen: 5.943 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. 0.00 min

Lab File: VU040740.D

Acq: 16 Oct 2020 11:42

Instrument :

MSVOA_U

ClientSampleId :

C0AG9

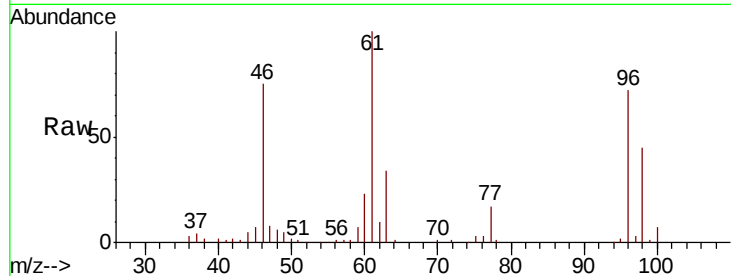
Tot Ion: 96 Resp: 52714

Ion Ratio Lower Upper

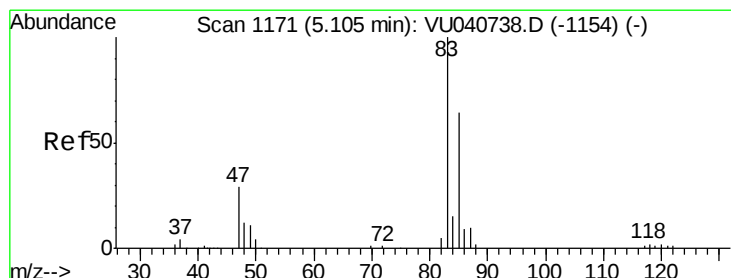
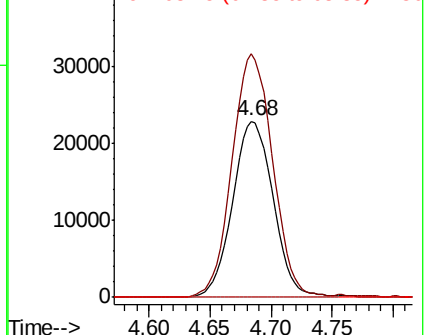
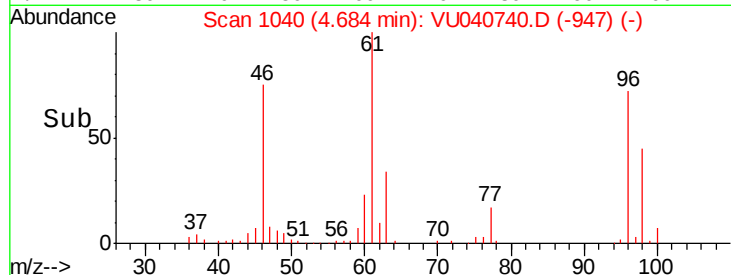
96 100

61 138.5 99.8 185.4

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU040740.D (-947) (-)



#25

Chloroform

Concen: 0.624 ug/L

RT: 5.10 min Scan# 1170

Delta R.T. -0.00 min

Lab File: VU040740.D

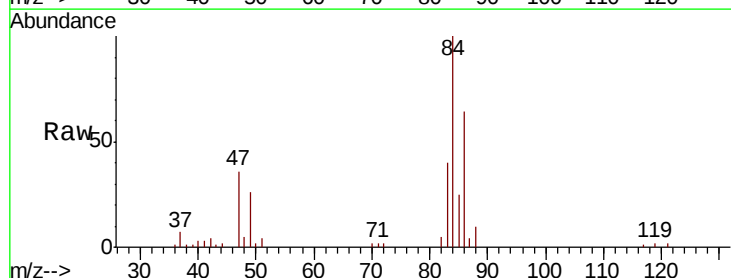
Acq: 16 Oct 2020 11:42

Tgt Ion: 83 Resp: 10834

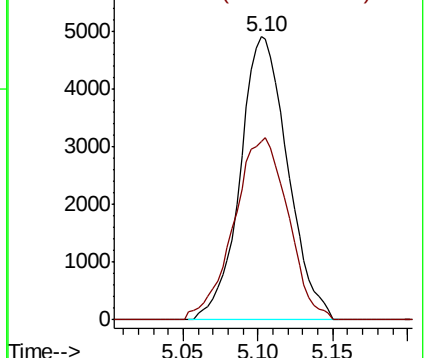
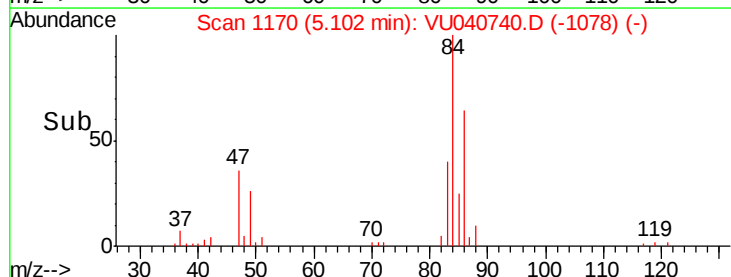
Ion Ratio Lower Upper

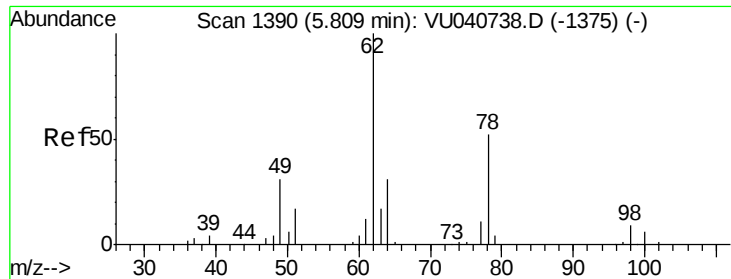
83 100

85 63.1 46.5 86.5



Abundance Ion 83.05 (82.75 to 83.75): VU040740.D (-1078) (-)

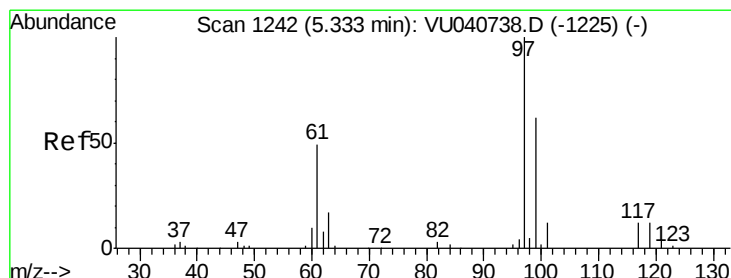
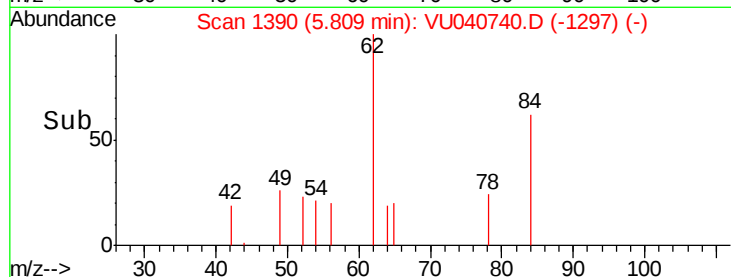
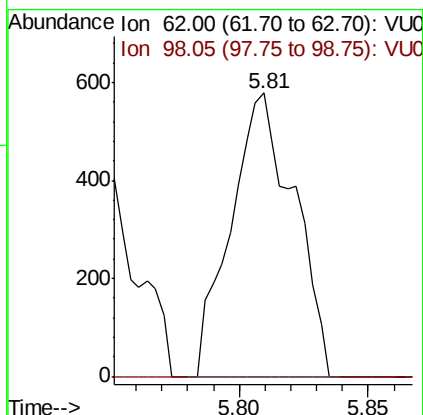
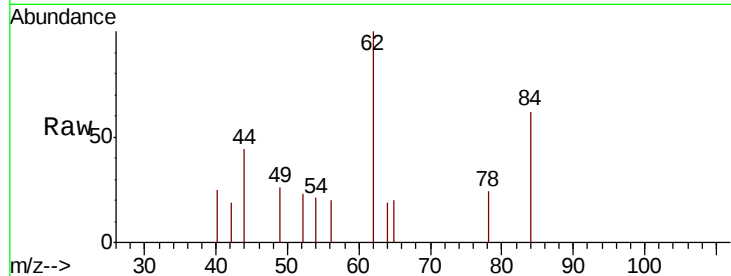




#27
 1,2-Dichloroethane
 Concen: 0.080 ug/L
 RT: 5.81 min Scan# 1390
 Delta R.T. 0.00 min
 Lab File: VU040740.D
 Acq: 16 Oct 2020 11:42

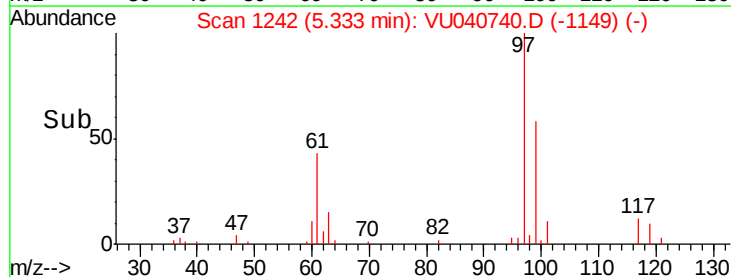
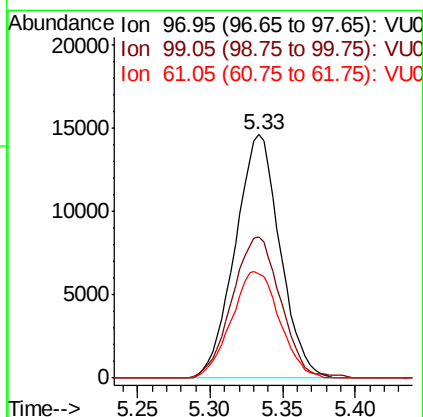
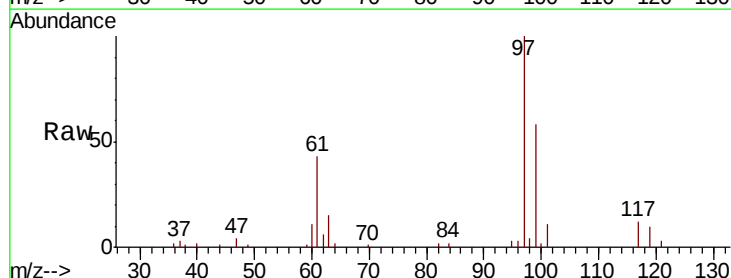
Instrument :
 MSVOA_U
 ClientSampled :
 C0AG9

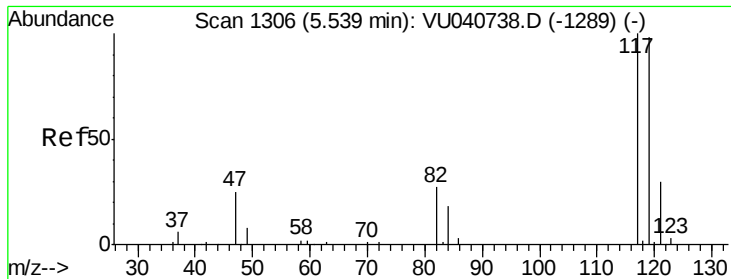
Tot Ion: 62 Resp: 989
 Ion Ratio Lower Upper
 62 100
 98 0.0 6.6 10.0#



#29
 1,1,1-Trichloroethane
 Concen: 2.017 ug/L
 RT: 5.33 min Scan# 1242
 Delta R.T. 0.00 min
 Lab File: VU040740.D
 Acq: 16 Oct 2020 11:42

Tgt Ion: 97 Resp: 31402
 Ion Ratio Lower Upper
 97 100
 99 62.9 51.3 76.9
 61 46.9 39.4 59.2





#31

Carbon tetrachloride

Concen: 0.273 ug/L

RT: 5.33 min Scan# 1242

Delta R.T. -0.21 min

Lab File: VU040740.D

Acq: 16 Oct 2020 11:42

Instrument :

MSVOA_U

ClientSampleId :

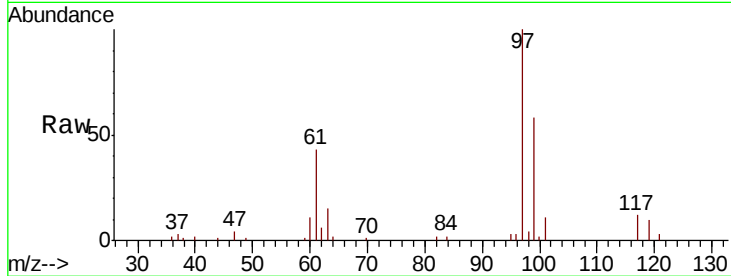
C0AG9

Tot Ion:117 Resp: 3639

Ion Ratio Lower Upper

117 100

119 95.8 76.2 114.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.33

2000

1500

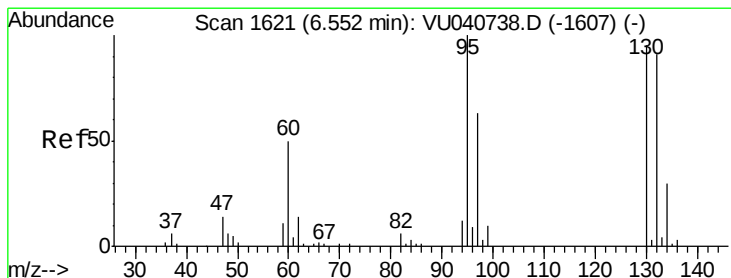
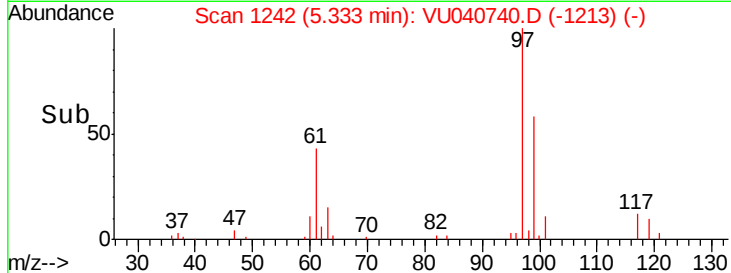
1000

500

0

5.30 5.35 5.40

Time-->



#34

Trichloroethene

Concen: 5.116 ug/L

RT: 6.55 min Scan# 1621

Delta R.T. 0.00 min

Lab File: VU040740.D

Acq: 16 Oct 2020 11:42

Tgt Ion: 95 Resp: 49353

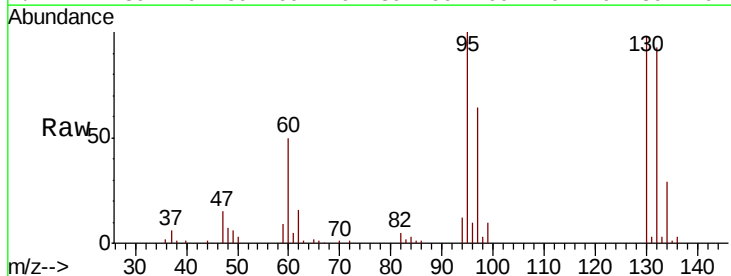
Ion Ratio Lower Upper

95 100

97 64.0 45.5 84.5

132 93.3 67.5 125.4

130 98.3 69.9 129.9



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

40000

30000

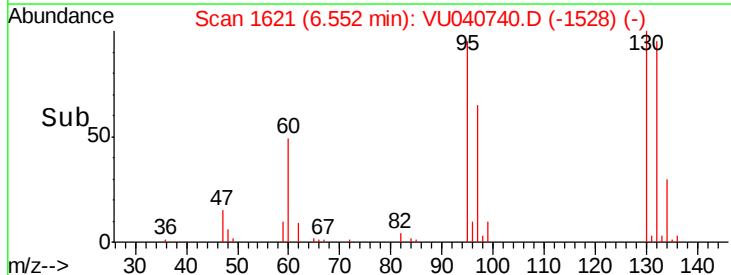
20000

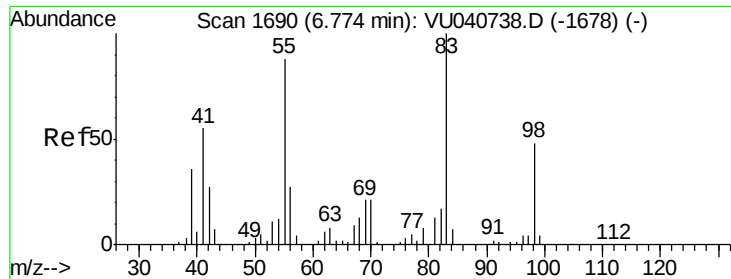
10000

0

6.45 6.50 6.55 6.60 6.65

Time-->

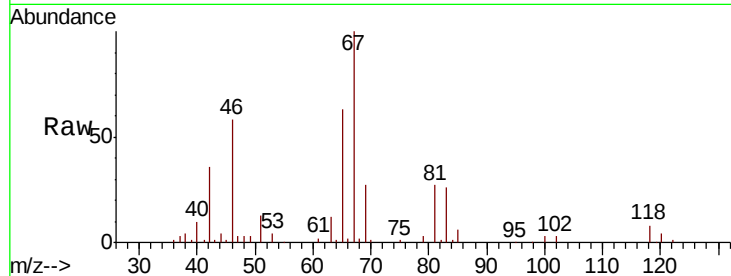




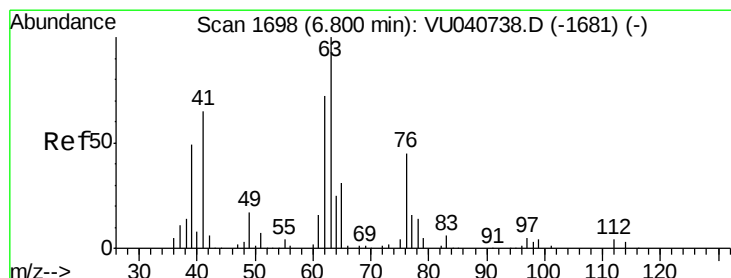
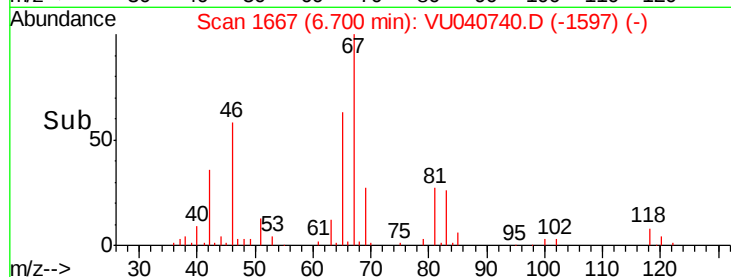
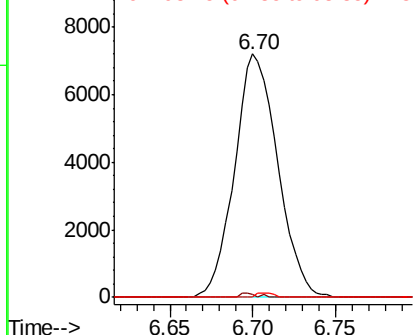
#35
Methvlcvclohexane
Concen: 0.951 ug/L
RT: 6.70 min Scan# 1667
Delta R.T. -0.07 min
Lab File: VU040740.D
Acq: 16 Oct 2020 11:42

Instrument :
MSVOA_U
ClientSampleId :
C0AG9

Tot Ion: 83 Resp: 13008
Ion Ratio Lower Upper
83 100
55 0.6 70.7 106.1#
98 0.6 38.4 57.6#

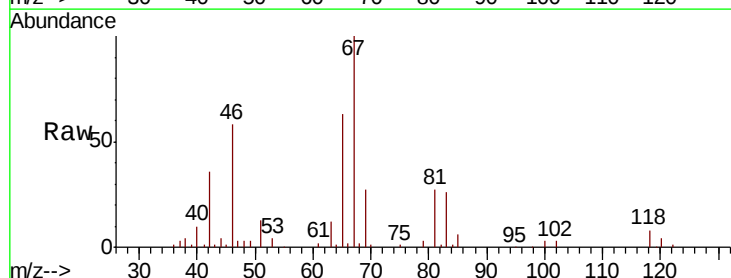


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

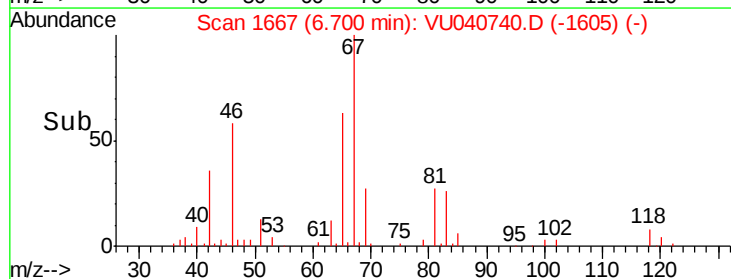
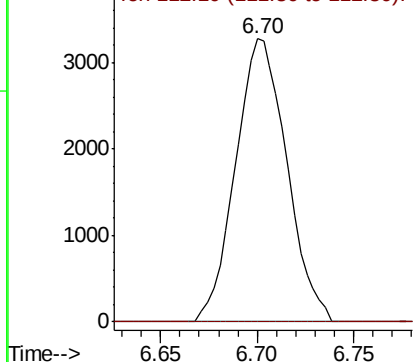


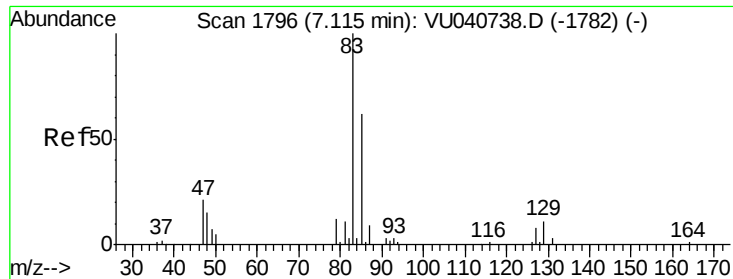
#37
1,2-Dichloropropane
Concen: 0.581 ug/L
RT: 6.70 min Scan# 1667
Delta R.T. -0.10 min
Lab File: VU040740.D
Acq: 16 Oct 2020 11:42

Tgt Ion: 63 Resp: 6021
Ion Ratio Lower Upper
63 100
112 0.0 3.5 5.3#



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

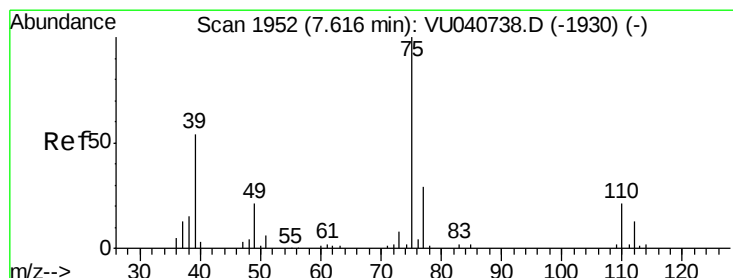
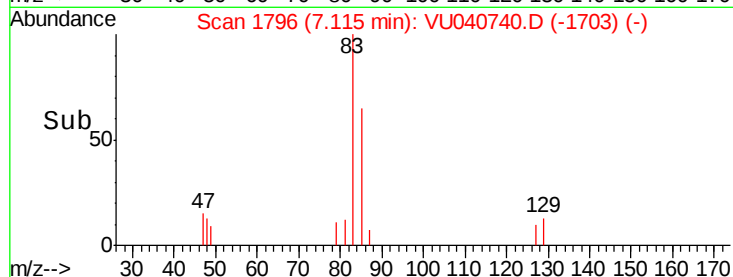
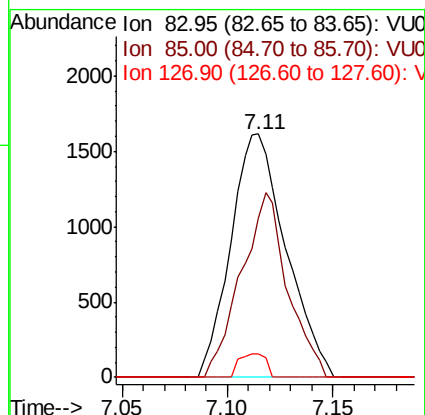
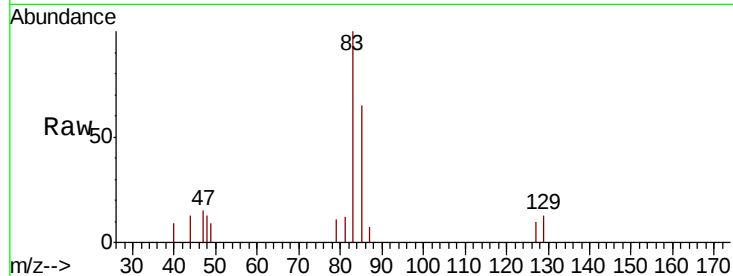




#38
Bromodichloromethane
Concen: 0.221 ug/L
RT: 7.11 min Scan# 1796
Delta R.T. 0.00 min
Lab File: VU040740.D
Acq: 16 Oct 2020 11:42

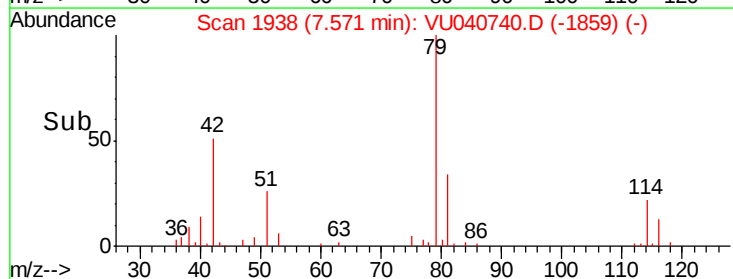
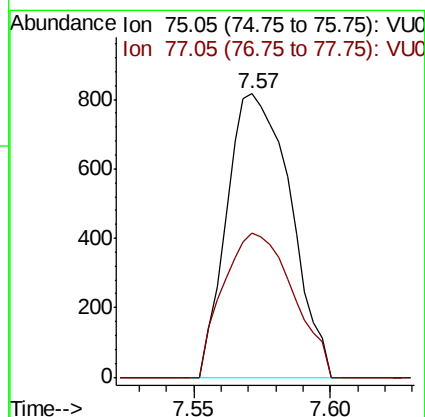
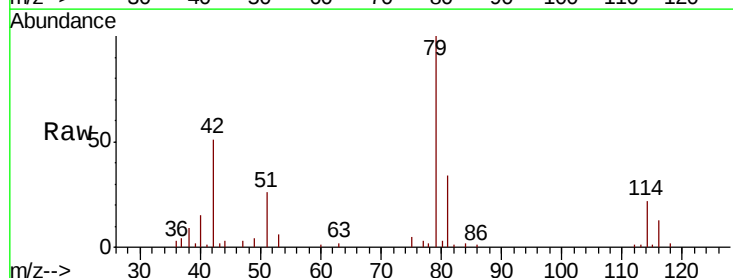
Instrument :
MSVOA_U
ClientSampleId :
C0AG9

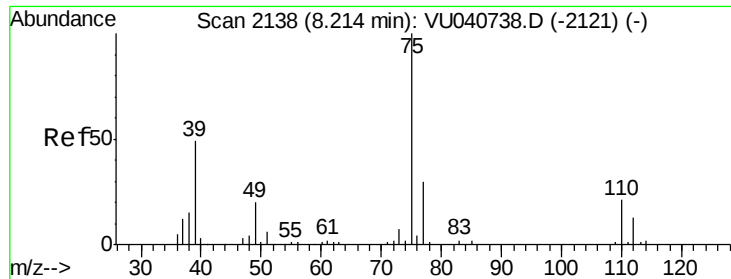
Tot Ion: 83 Resp: 2928
Ion Ratio Lower Upper
83 100
85 65.2 46.0 85.4
127 9.6 6.7 10.1



#39
cis-1,3-Dichloropropene
Concen: 0.093 ug/L
RT: 7.57 min Scan# 1938
Delta R.T. -0.04 min
Lab File: VU040740.D
Acq: 16 Oct 2020 11:42

Tgt Ion: 75 Resp: 1322
Ion Ratio Lower Upper
75 100
77 50.7 20.5 38.1#





#44

trans-1,3-Dichloropropene

Concen: 0.063 ug/L

RT: 8.18 min Scan# 2127

Delta R.T. -0.04 min

Lab File: VU040740.D

Acq: 16 Oct 2020 11:42

Instrument :

MSVOA_U

ClientSampleId :

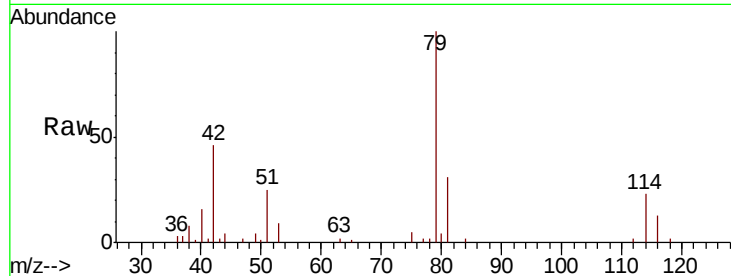
C0AG9

Tot Ion: 75 Resp: 827

Ion Ratio Lower Upper

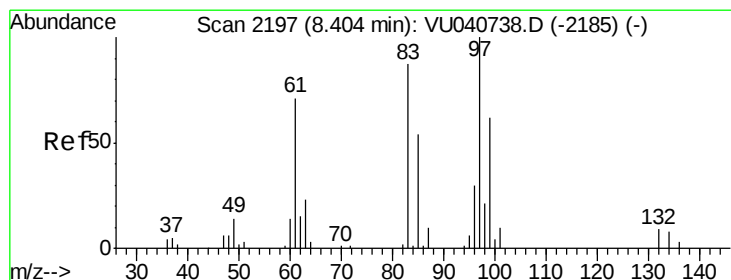
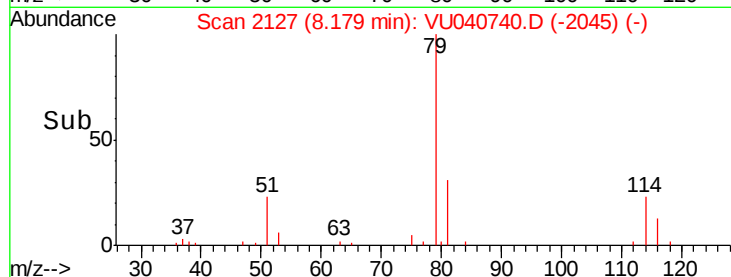
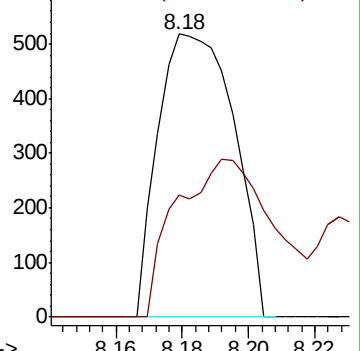
75 100

77 43.2 20.4 38.0#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0



#45

1,1,2-Trichloroethane

Concen: 0.141 ug/L

RT: 8.40 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VU040740.D

Acq: 16 Oct 2020 11:42

Tgt Ion: 97 Resp: 1093

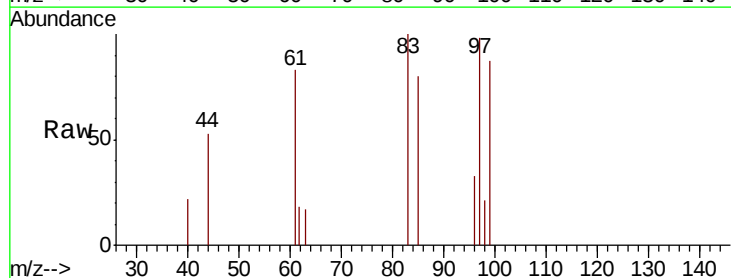
Ion Ratio Lower Upper

97 100

99 88.5 44.0 81.6#

83 102.0 62.9 116.9

85 82.0 40.3 74.8#

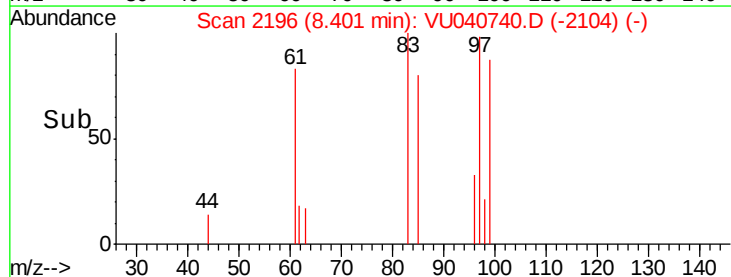
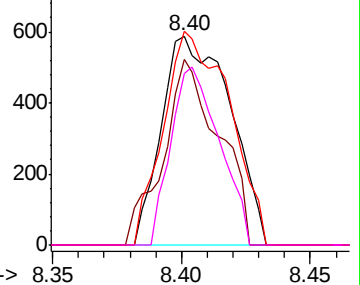


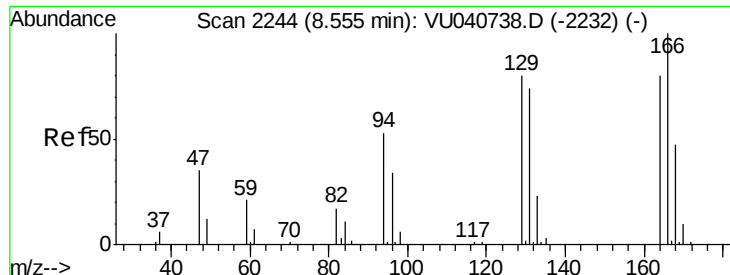
Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

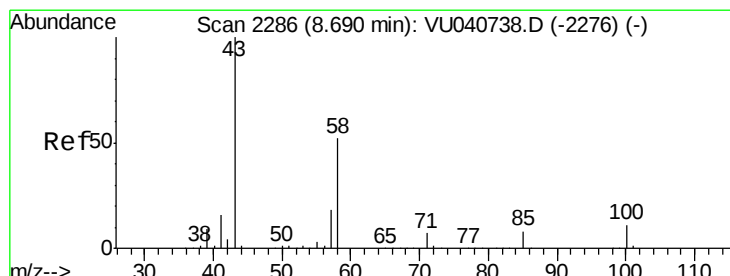
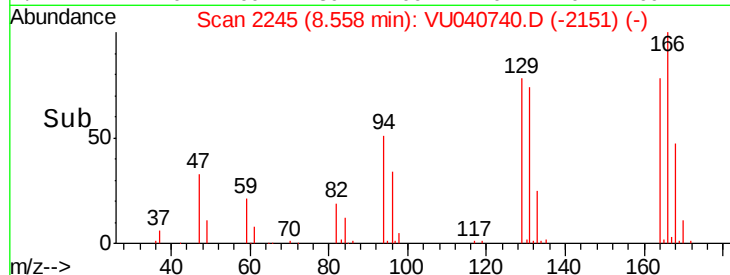
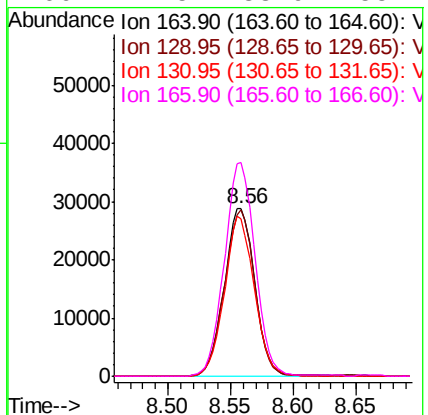
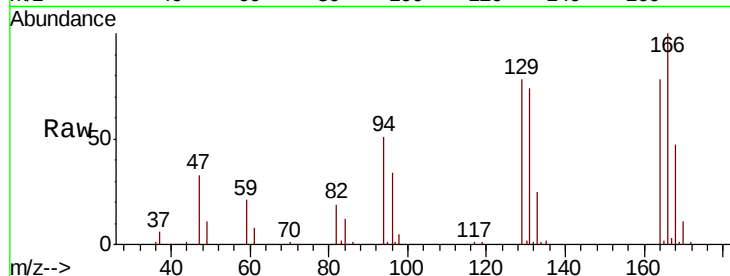




#47
Tetrachloroethene
Concen: 7.067 ug/L
RT: 8.56 min Scan# 2245
Delta R.T. 0.00 min
Lab File: VU040740.D
Acq: 16 Oct 2020 11:42

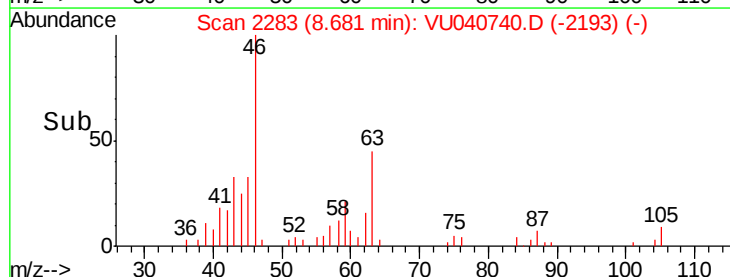
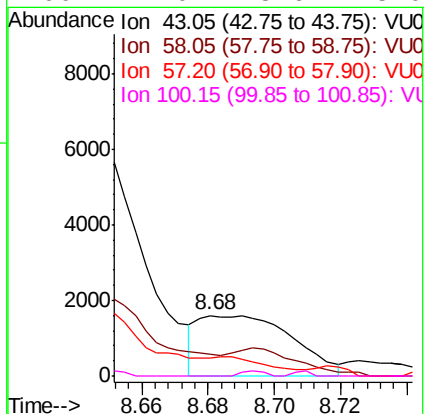
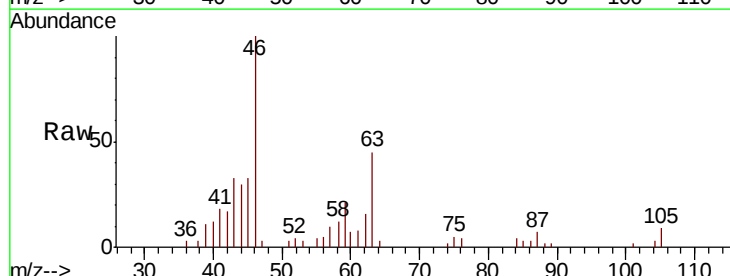
Instrument :
MSVOA_U
ClientSampled :
C0AG9

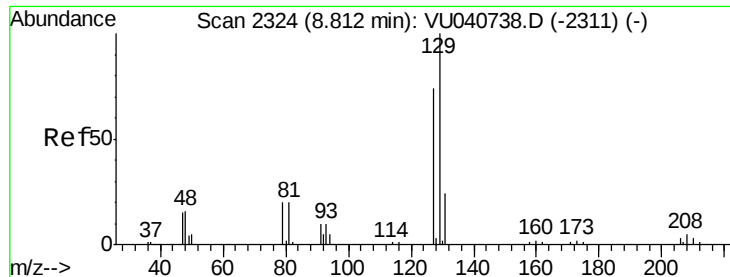
Tot Ion:164 Resp: 48636
Ion Ratio Lower Upper
164 100
129 99.2 68.8 127.8
131 94.1 66.7 123.9
166 127.5 83.9 155.7



#48
2-Hexanone
Concen: 0.513 ug/L
RT: 8.68 min Scan# 2283
Delta R.T. -0.01 min
Lab File: VU040740.D
Acq: 16 Oct 2020 11:42

Tgt Ion: 43 Resp: 3157
Ion Ratio Lower Upper
43 100
58 32.6 41.0 61.6#
57 0.0 14.4 21.6#
100 2.0 8.6 13.0#





#49

Dibromochloromethane

Concen: 5.338 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.25 min

Lab File: VU040740.D

Acq: 16 Oct 2020 11:42

Instrument :

MSVOA_U

ClientSampleId :

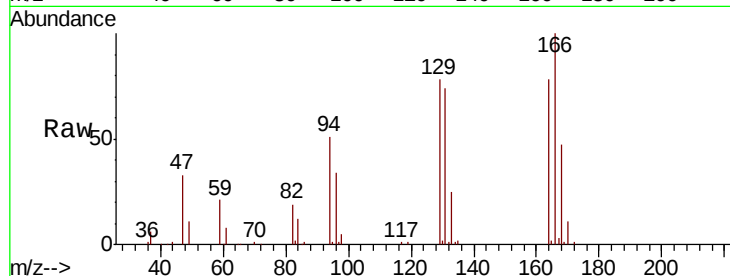
C0AG9

Tot Ion:129 Resp: 47704

Ion Ratio Lower Upper

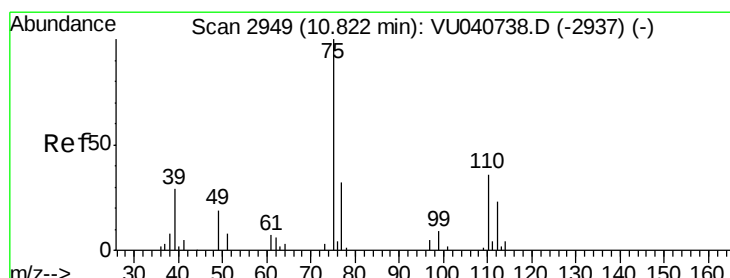
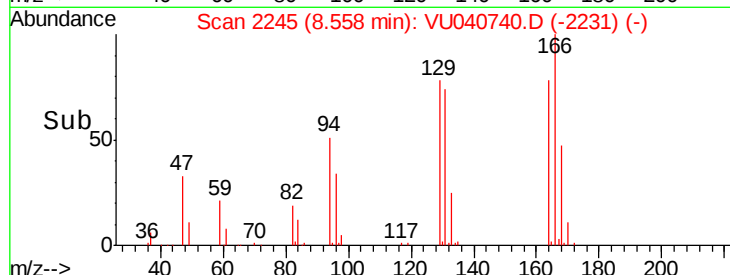
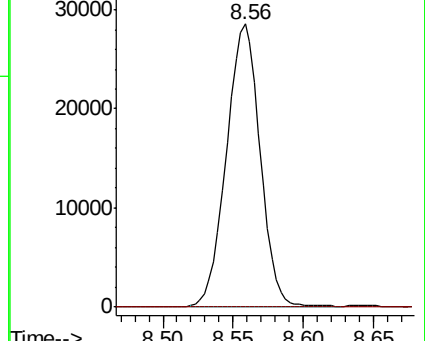
129 100

127 0.0 55.8 103.6#



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: 0.885 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU040740.D

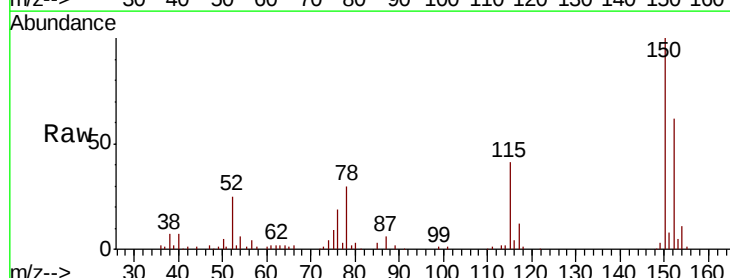
Acq: 16 Oct 2020 11:42

Tgt Ion: 75 Resp: 6740

Ion Ratio Lower Upper

75 100

77 40.7 26.4 39.6#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

