

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111620\
 Data File : VU041254.D
 Acq On : 16 Nov 2020 17:40
 Operator : SY/MD
 Sample : L4740-05MSD
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GB110MSD

Quant Time: Nov 17 07:17:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR111620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Nov 16 12:08:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	66246	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	63845	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	23094	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	25201	5.17	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	103.40%
7) Chloroethane-d5	1.92	69	22117	5.31	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	106.20%
11) 1,1-Dichloroethene-d2	2.58	63	47996	4.77	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	95.40%
20) 2-Butanone-d5	4.66	46	98519	49.03	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	98.06%
24) Chloroform-d	5.08	84	49648	4.71	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.20%
26) 1,2-Dichloroethane-d4	5.72	65	33652	4.89	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.80%
32) Benzene-d6	5.74	84	93616	5.44	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	108.80%
36) 1,2-Dichloropropane-d6	6.70	67	32807	5.53	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	110.60%
41) Toluene-d8	7.90	98	66914	4.13	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.60%
43) trans-1,3-Dichloropropene-	8.19	79	10556	4.13	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	82.60%
46) 2-Hexanone-d5	8.64	63	66644	48.88	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.76%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	25079	4.36	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	87.20%
64) 1,2-Dichlorobenzene-d4	12.19	152	21745	4.83	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.60%

Target Compounds

					Ovalue
3) Chloromethane	1.52	50	393	0.067	ug/L 84
5) Vinyl chloride	1.61	62	3221	0.560	ug/L 84
8) Chloroethane	1.93	64	304	0.080	ug/L # 43
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	317	0.065	ug/L # 22
12) 1,1-Dichloroethene	2.59	96	23326	5.409	ug/L 94
13) Acetone	2.66	43	8254	6.193	ug/L 68
15) Methyl Acetate	2.97	43	469	0.169	ug/L # 53
18) trans-1,2-Dichloroethene	3.37	96	4167	0.992	ug/L 97
19) 1,1-Dichloroethane	3.89	63	6089	0.648	ug/L 94
21) 2-Butanone	4.73	43	2718	1.343	ug/L # 52
22) cis-1,2-Dichloroethene	4.69	96	211873	44.668	ug/L 97
25) Chloroform	5.11	83	1448	0.142	ug/L 93
27) 1,2-Dichloroethane	5.78	62	1193	0.163	ug/L # 74
29) 1,1,1-Trichloroethane	5.34	97	1366	0.175	ug/L 94
33) Benzene	5.79	78	108521	6.272	ug/L 100
34) Trichloroethene	6.55	95	176381	37.720	ug/L 99
35) Methylcyclohexane	6.70	83	7832	1.261	ug/L # 13

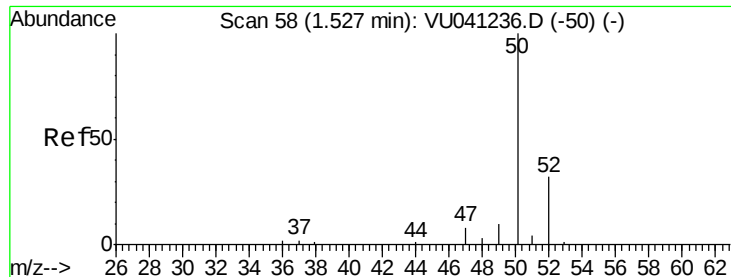
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111620\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,2-Dichloropropane	6.70	63	3902	0.772	ug/L #	86
39) cis-1,3-Dichloropropene	7.57	75	668	0.095	ug/L #	58
42) Toluene	7.98	91	96682	5.229	ug/L	99
44) trans-1,3-Dichloropropene	8.18	75	473	0.071	ug/L #	64
47) Tetrachloroethene	8.56	164	3297	0.954	ug/L	90
48) 2-Hexanone	8.64	43	11806	3.779	ug/L #	74
49) Dibromochloromethane	8.56	129	3876	0.836	ug/L #	11
51) Chlorobenzene	9.45	112	67957	5.549	ug/L	98
59) 1,2,3-Trichloropropane	11.81	75	3099	0.777	ug/L #	43

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



#3

Chloromethane

Concen: 0.067 ug/L

RT: 1.52 min Scan# 57

Delta R.T. -0.00 min

Lab File: VU041254.D

Acq: 16 Nov 2020 17:40

Instrument :

MSVOA_U

ClientSampleId :

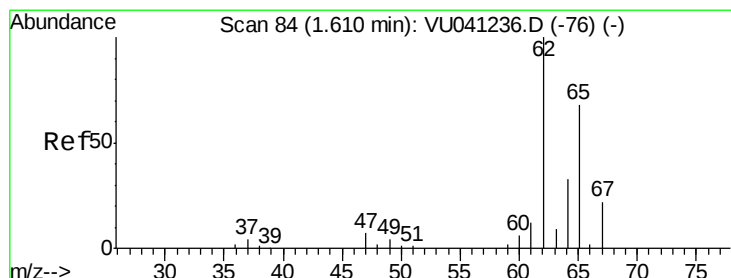
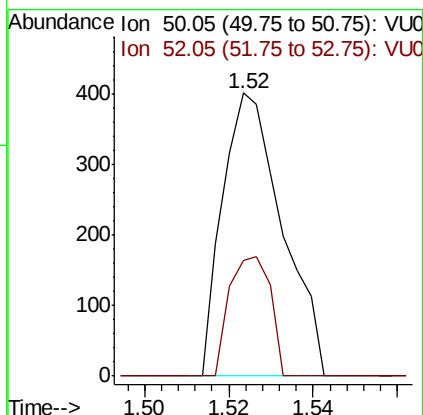
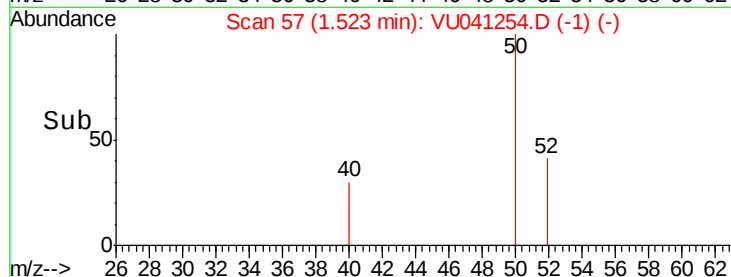
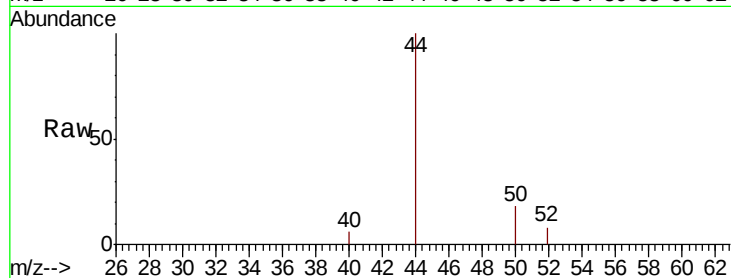
GB110MSD

Tot Ion: 50 Resp: 393

Ion Ratio Lower Upper

50 100

52 40.8 22.4 41.6



#5

Vinyl chloride

Concen: 0.560 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU041254.D

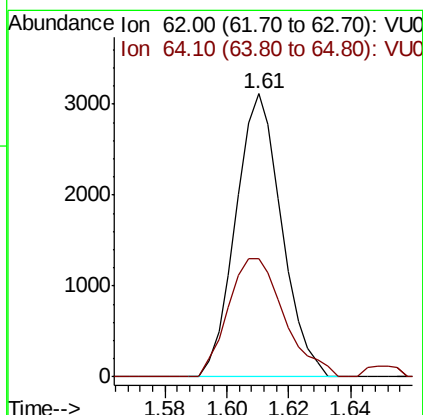
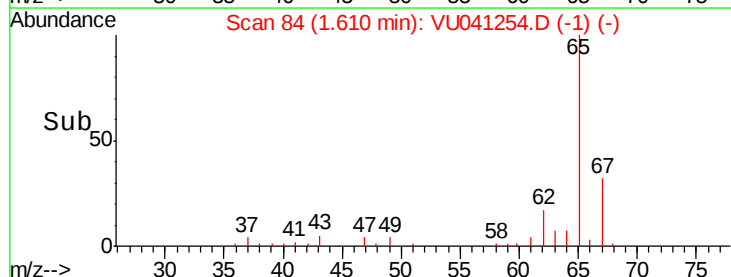
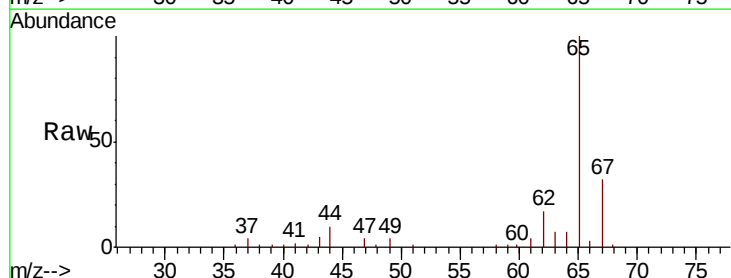
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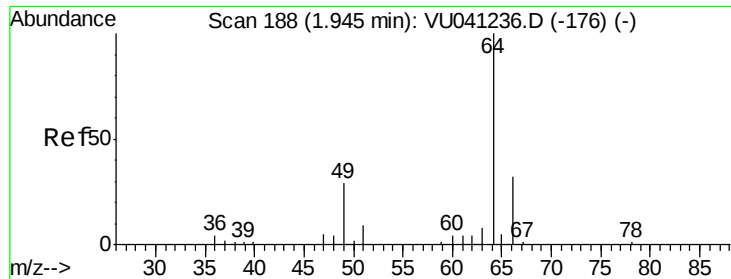
Tgt Ion: 62 Resp: 3221

Ion Ratio Lower Upper

62 100

64 41.7 22.7 42.3

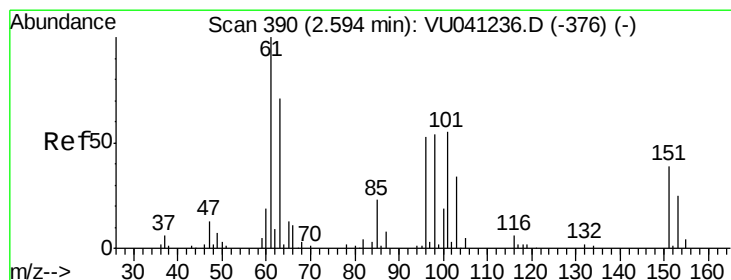
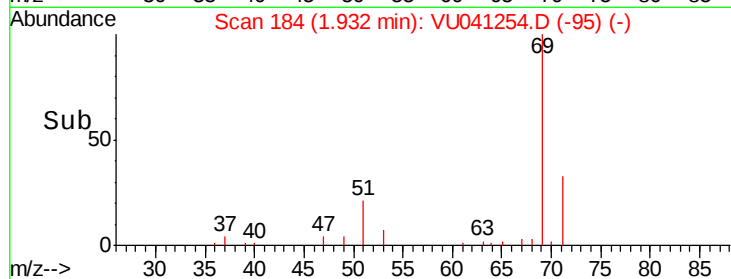
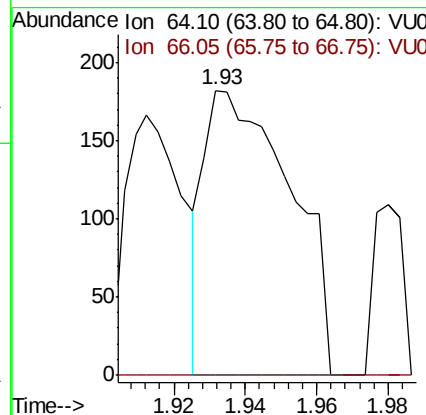
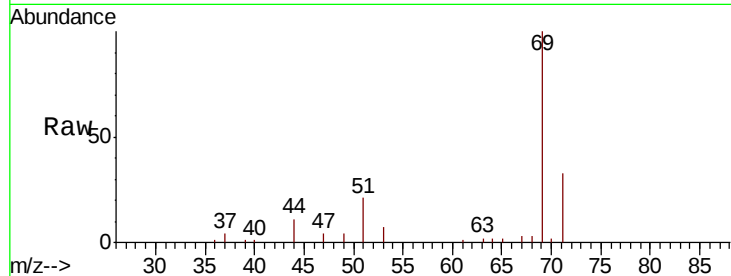




#8
Chloroethane
Concen: 0.080 ug/L
RT: 1.93 min Scan# 184
Delta R.T. -0.01 min
Lab File: VU041254.D
Acq: 16 Nov 2020 17:40

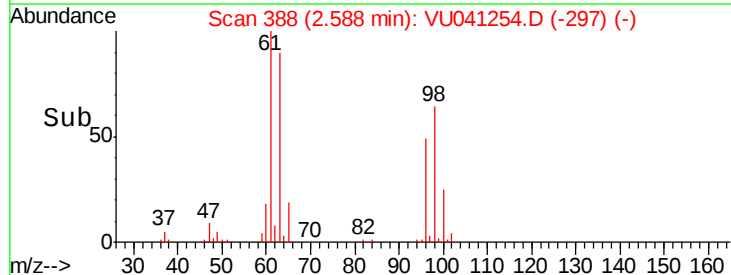
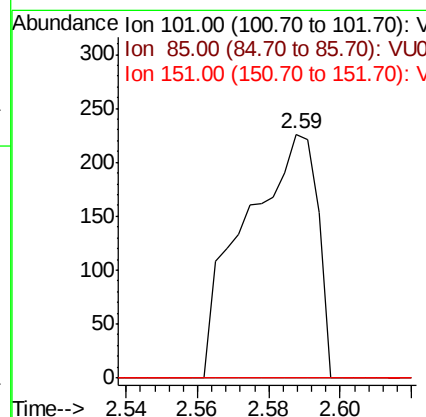
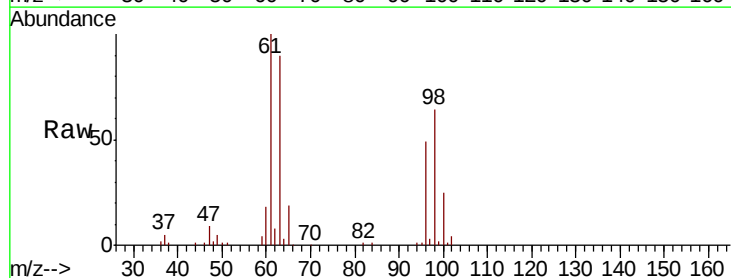
Instrument :
MSVOA_U
ClientSampleId :
GB110MSD

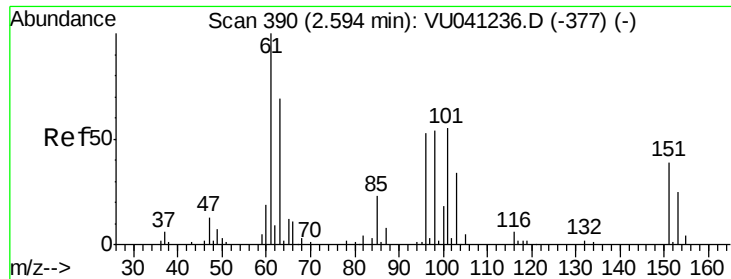
Tot Ion: 64 Resp: 304
Ion Ratio Lower Upper
64 100
66 0.0 22.3 41.5#



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.065 ug/L
RT: 2.59 min Scan# 388
Delta R.T. -0.01 min
Lab File: VU041254.D
Acq: 16 Nov 2020 17:40

Tgt Ion: 101 Resp: 317
Ion Ratio Lower Upper
101 100
85 0.0 35.0 52.4#
151 0.0 55.3 82.9#





#12

1,1-Dichloroethene

Concen: 5.409 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU041254.D

Acq: 16 Nov 2020 17:40

Instrument :

MSVOA_U

ClientSampleId :

GB110MSD

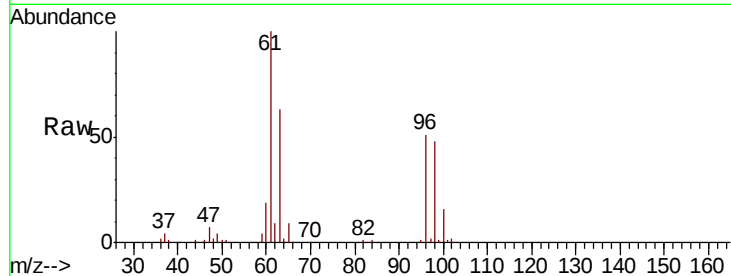
Tot Ion: 96 Resp: 23326

Ion Ratio Lower Upper

96 100

61 195.9 134.3 249.5

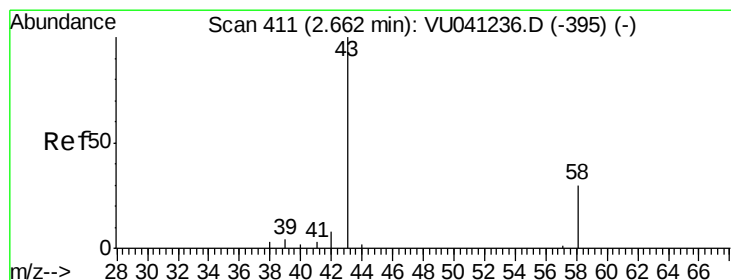
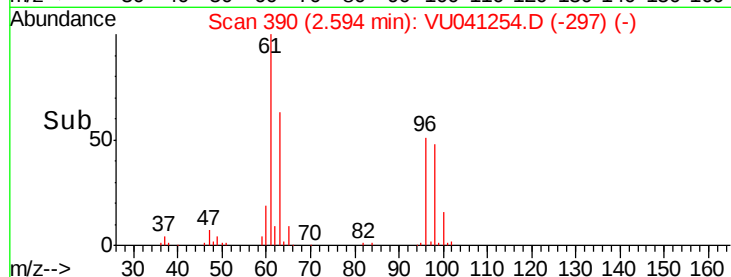
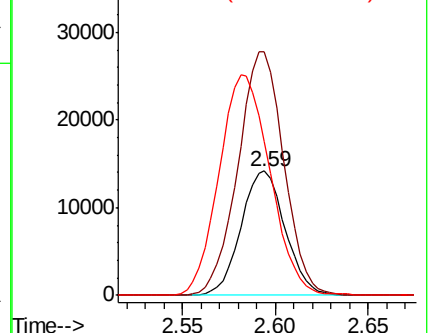
63 123.7 95.0 176.4



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: 6.193 ug/L

RT: 2.66 min Scan# 412

Delta R.T. 0.00 min

Lab File: VU041254.D

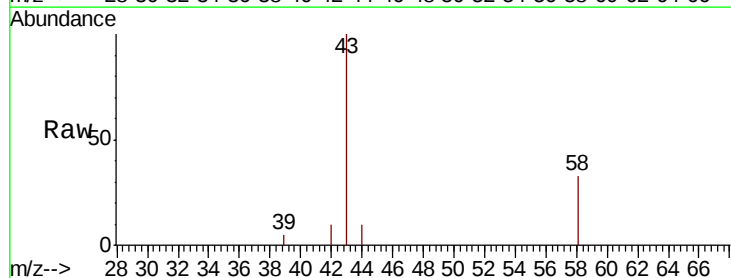
Acq: 16 Nov 2020 17:40

Tgt Ion: 43 Resp: 8254

Ion Ratio Lower Upper

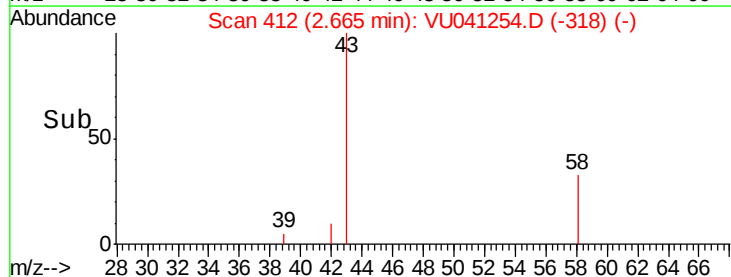
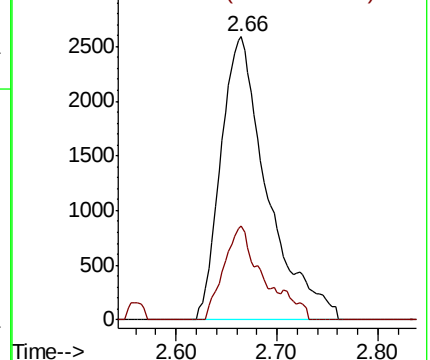
43 100

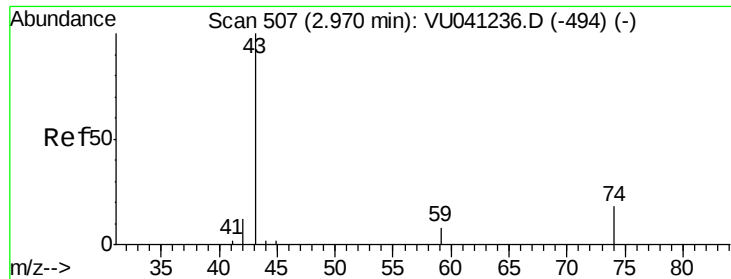
58 25.3 0.0 25.4



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0





#15

Methyl Acetate

Concen: 0.169 ug/L

RT: 2.97 min Scan# 508

Delta R.T. 0.00 min

Lab File: VU041254.D

Acq: 16 Nov 2020 17:40

Instrument :

MSVOA_U

ClientSampleId :

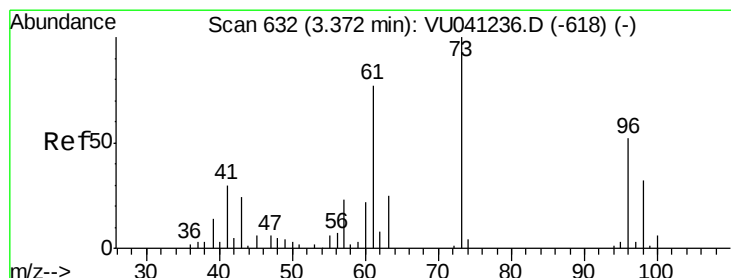
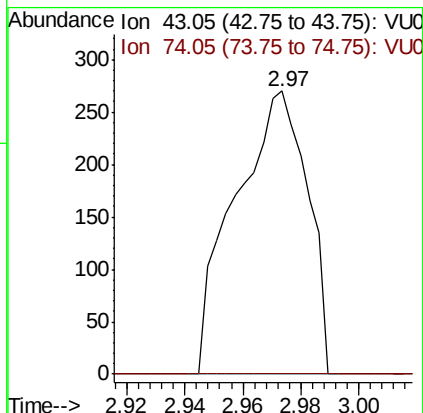
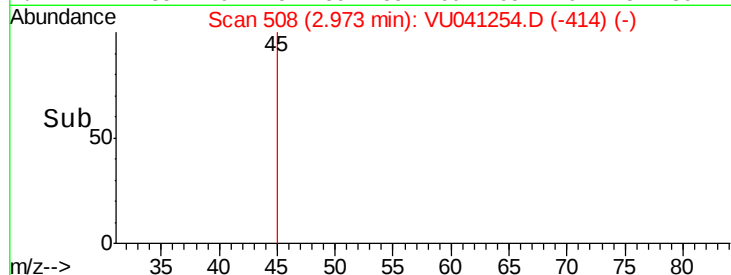
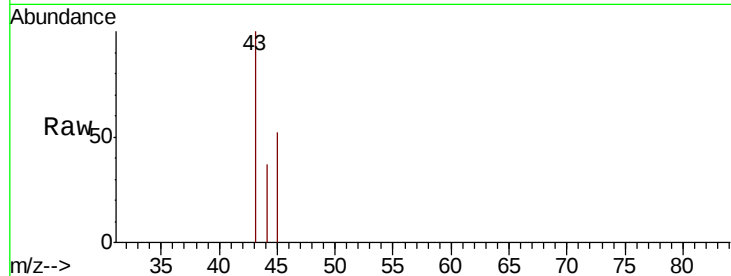
GB110MSD

Tot Ion: 43 Resp: 469

Ion Ratio Lower Upper

43 100

74 0.0 18.3 27.5#



#18

trans-1,2-Dichloroethene

Concen: 0.992 ug/L

RT: 3.37 min Scan# 632

Delta R.T. 0.00 min

Lab File: VU041254.D

Acq: 16 Nov 2020 17:40

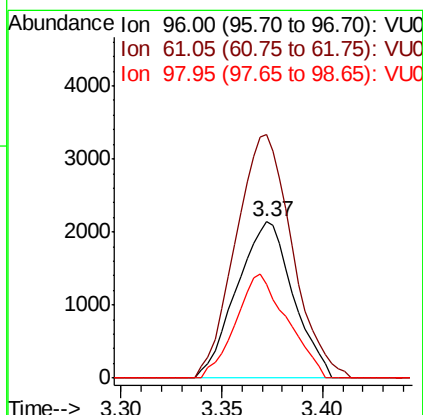
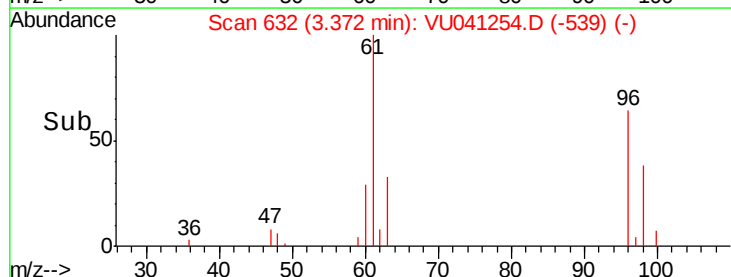
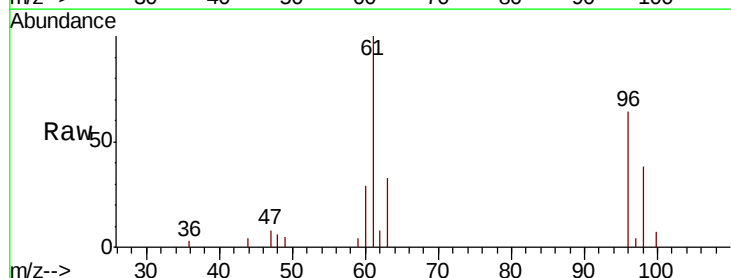
Tgt Ion: 96 Resp: 4167

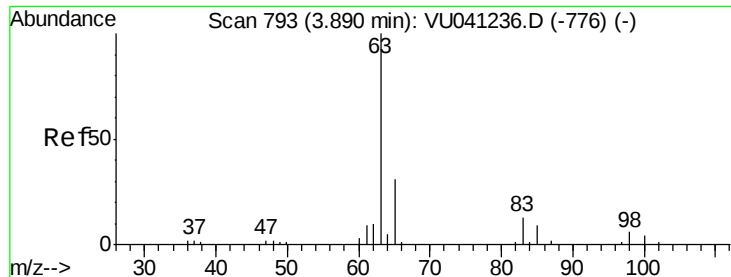
Ion Ratio Lower Upper

96 100

61 155.8 110.9 205.9

98 60.0 45.4 84.2

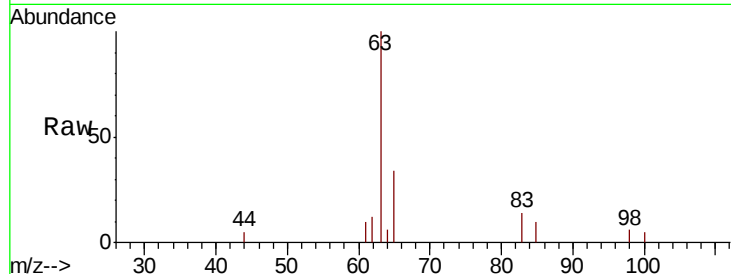




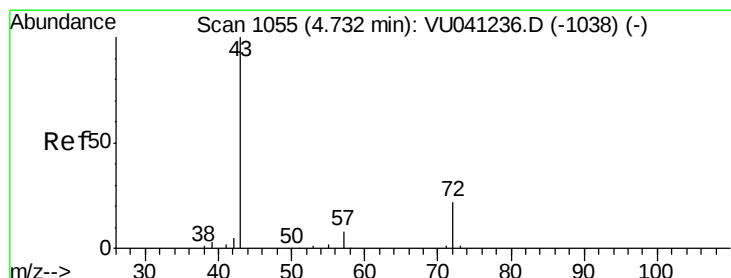
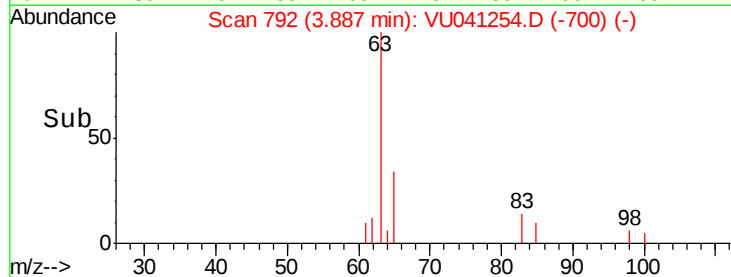
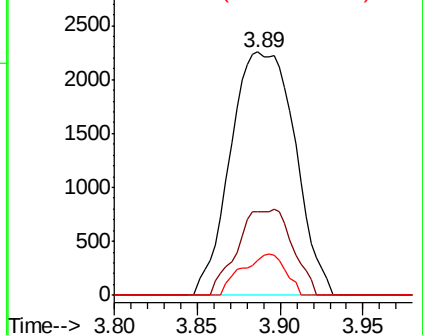
#19
 1,1-Dichloroethane
 Concen: 0.648 ug/L
 RT: 3.89 min Scan# 792
 Delta R.T. -0.00 min
 Lab File: VU041254.D
 Acq: 16 Nov 2020 17:40

Instrument :
 MSVOA_U
 ClientSampleId :
 GB110MSD

Tot Ion: 63 Resp: 6089
 Ion Ratio Lower Upper
 63 100
 65 34.3 21.3 39.6
 83 14.4 8.8 16.3

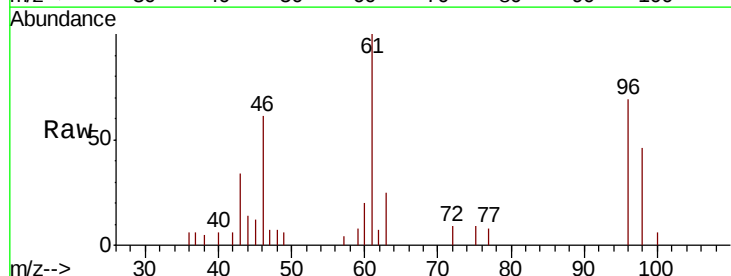


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

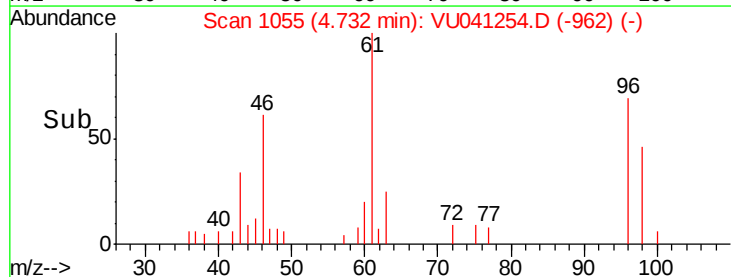
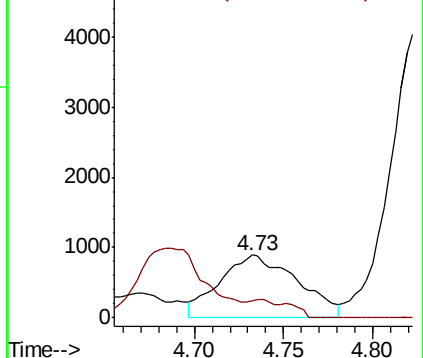


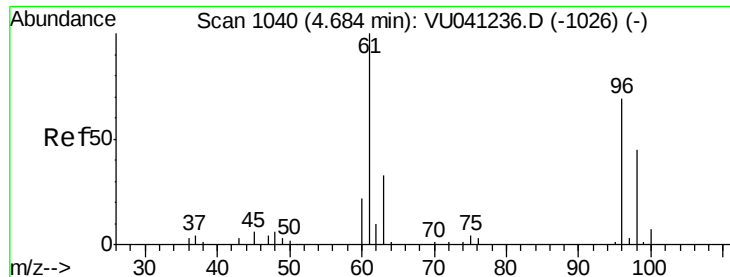
#21
 2-Butanone
 Concen: 1.343 ug/L
 RT: 4.73 min Scan# 1055
 Delta R.T. 0.00 min
 Lab File: VU041254.D
 Acq: 16 Nov 2020 17:40

Tgt Ion: 43 Resp: 2718
 Ion Ratio Lower Upper
 43 100
 72 0.0 11.8 35.4#



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 72.10 (71.80 to 72.80): VU0

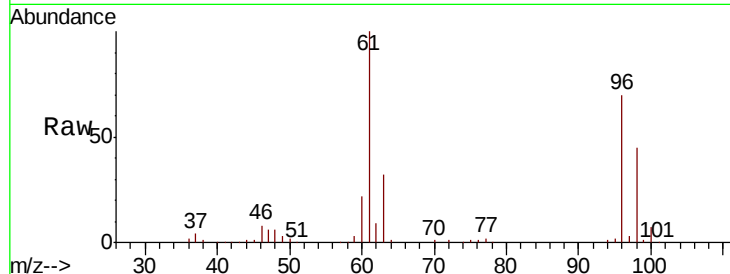




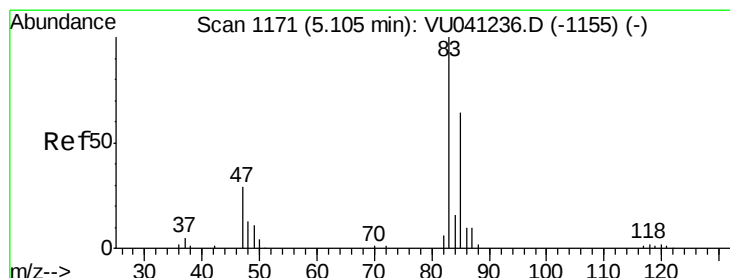
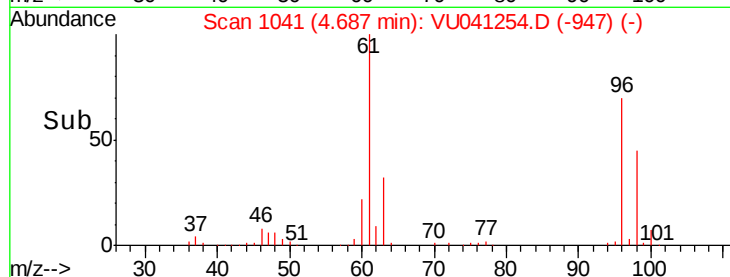
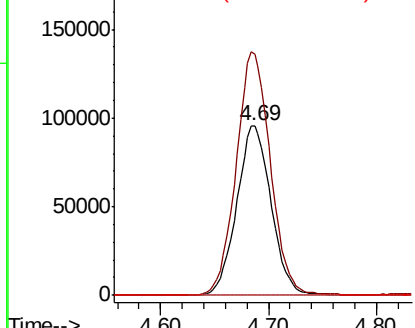
#22
 cis-1,2-Dichloroethene
 Concen: 44.668 ug/L
 RT: 4.69 min Scan# 1041
 Delta R.T. 0.00 min
 Lab File: VU041254.D
 Acq: 16 Nov 2020 17:40

Instrument :
 MSVOA_U
 ClientSampleId :
 GB110MSD

Tot Ion: 96 Resp: 211873
 Ion Ratio Lower Upper
 96 100
 61 142.5 97.2 180.4
 68 0.0 0.0 0.0

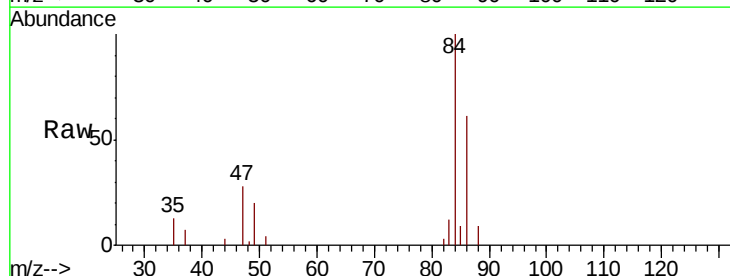


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

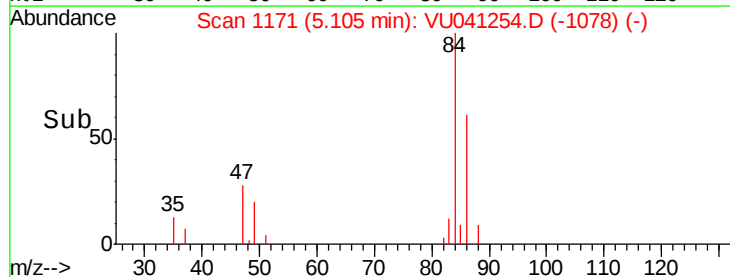
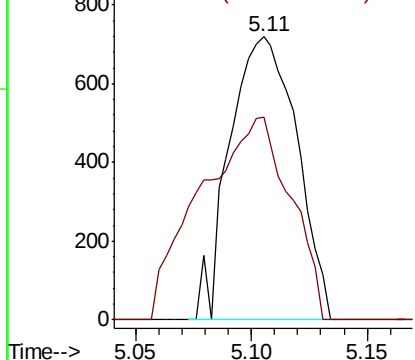


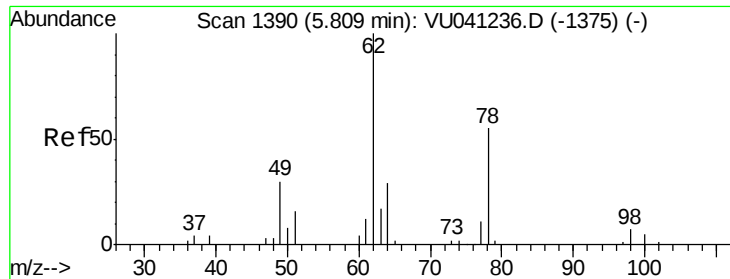
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 Chloroform
 Concen: 0.142 ug/L
 RT: 5.11 min Scan# 1171
 Delta R.T. 0.00 min
 Lab File: VU041254.D
 Acq: 16 Nov 2020 17:40

Tgt Ion: 83 Resp: 1448
 Ion Ratio Lower Upper
 83 100
 85 71.6 46.1 85.7



Abundance Ion 83.05 (82.75 to 83.75): VU0
 Ion 85.00 (84.70 to 85.70): VU0

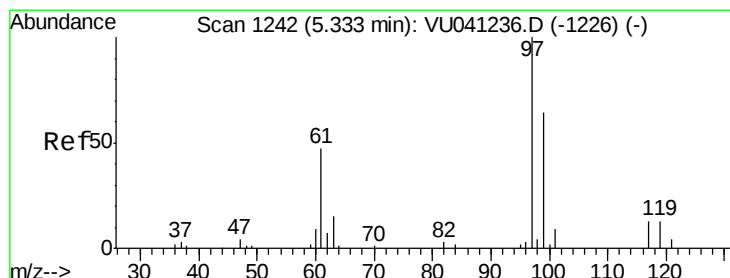
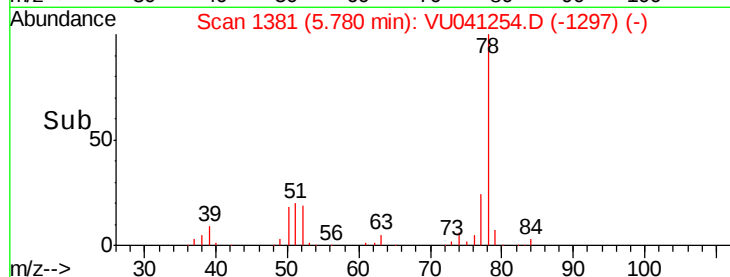
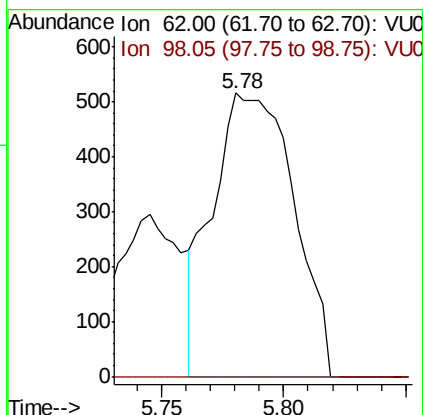
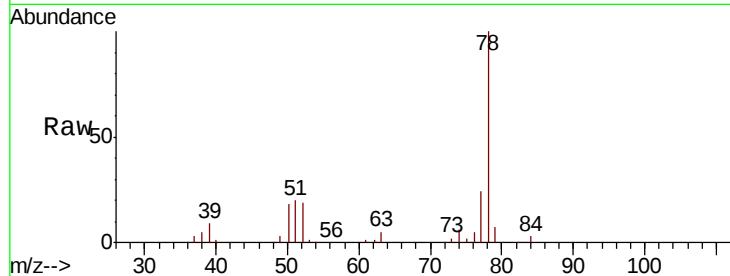




#27
 1,2-Dichloroethane
 Concen: 0.163 ug/L
 RT: 5.78 min Scan# 1381
 Delta R.T. -0.03 min
 Lab File: VU041254.D
 Acq: 16 Nov 2020 17:40

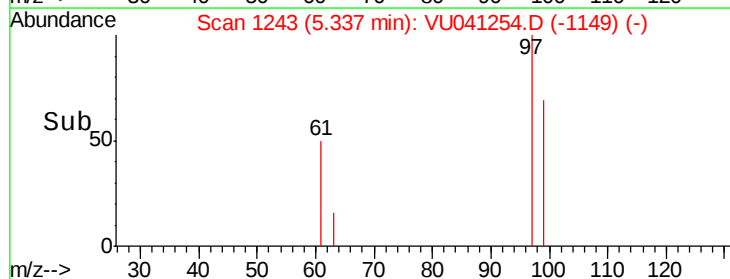
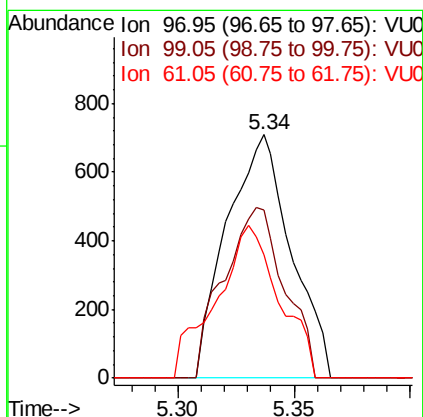
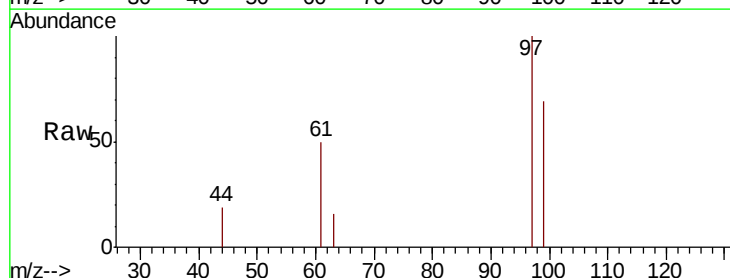
Instrument :
 MSVOA_U
 ClientSampleID :
 GB110MSD

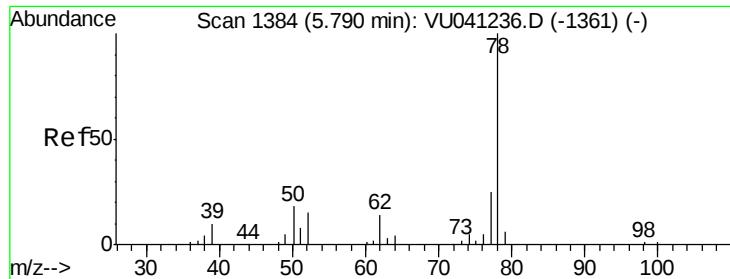
Tot Ion: 62 Resp: 1193
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.6 11.4#



#29
 1,1,1-Trichloroethane
 Concen: 0.175 ug/L
 RT: 5.34 min Scan# 1243
 Delta R.T. 0.00 min
 Lab File: VU041254.D
 Acq: 16 Nov 2020 17:40

Tgt Ion: 97 Resp: 1366
 Ion Ratio Lower Upper
 97 100
 99 66.5 53.4 80.0
 61 62.0 41.6 62.4





#33

Benzene

Concen: 6.272 ug/L

RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

Lab File: VU041254.D

Acq: 16 Nov 2020 17:40

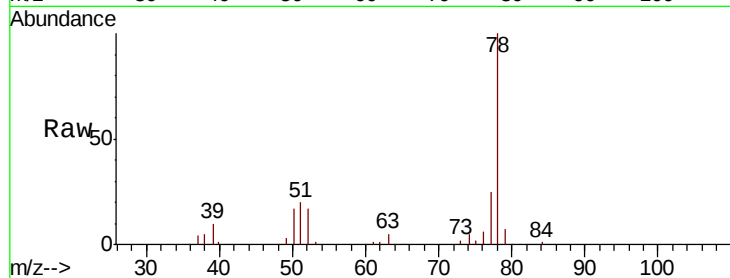
Instrument :

MSVOA_U

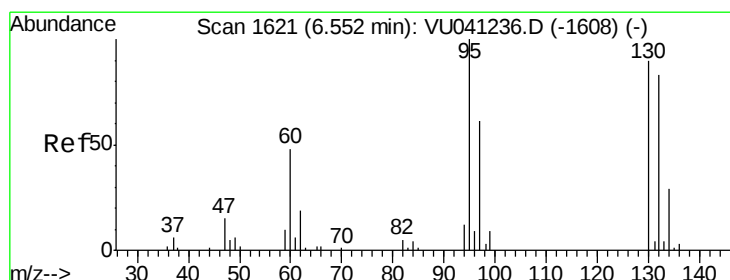
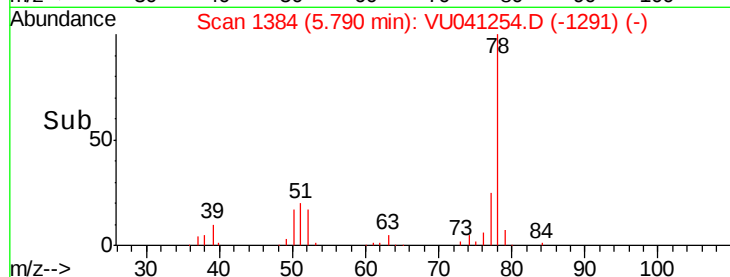
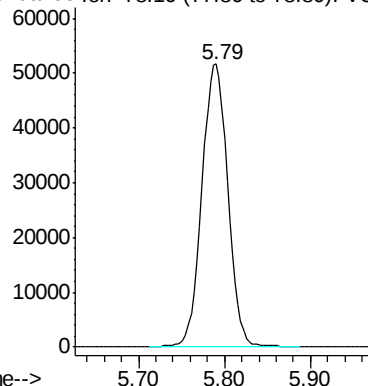
ClientSampleId :

GB110MSD

Tgt Ion: 78 Resp: 108521



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 37.720 ug/L

RT: 6.55 min Scan# 1621

Delta R.T. 0.00 min

Lab File: VU041254.D

Acq: 16 Nov 2020 17:40

Tgt Ion: 95 Resp: 176381

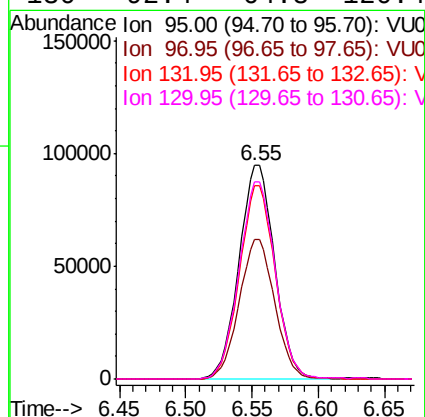
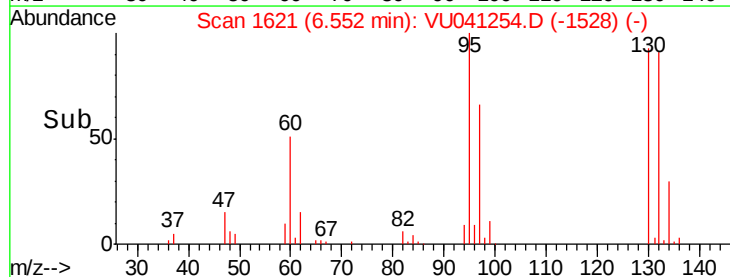
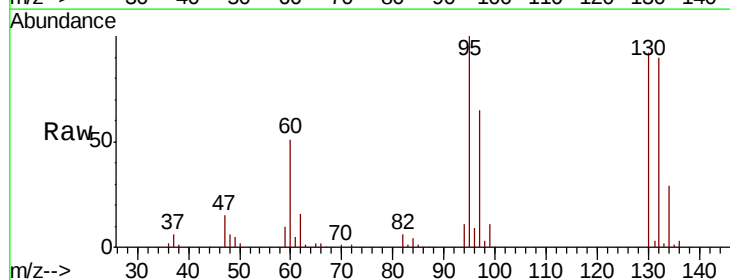
Ion	Ratio	Lower	Upper
95	100		
97	65.4	45.6	84.6
132	90.3	64.8	120.4
130	92.4	64.8	120.4

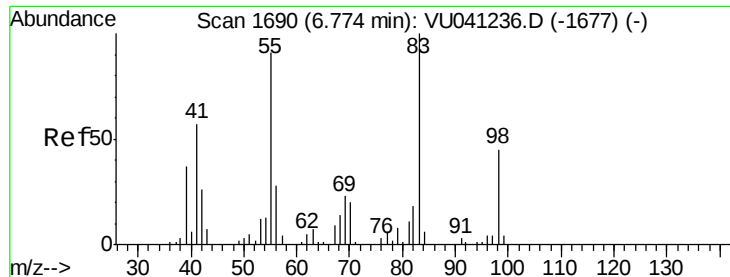
Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 1.261 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.07 min

Lab File: VU041254.D

Acq: 16 Nov 2020 17:40

Instrument :

MSVOA_U

ClientSampleId :

GB110MSD

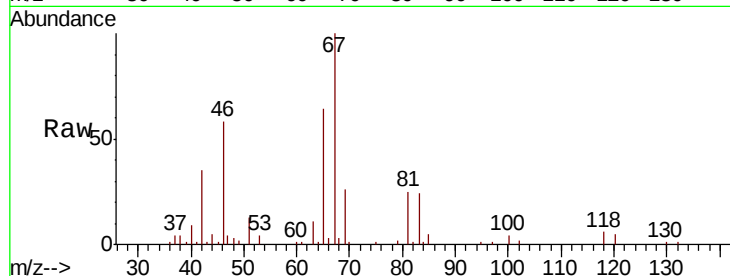
Tot Ion: 83 Resp: 7832

Ion Ratio Lower Upper

83 100

55 0.0 72.0 108.0#

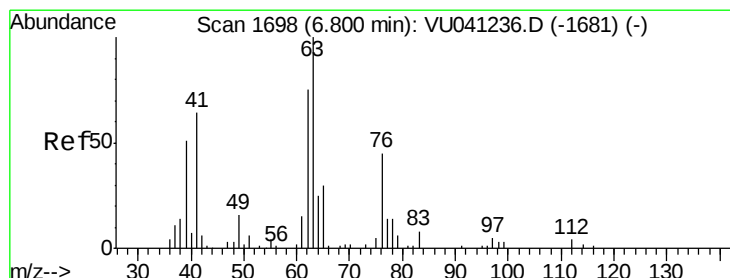
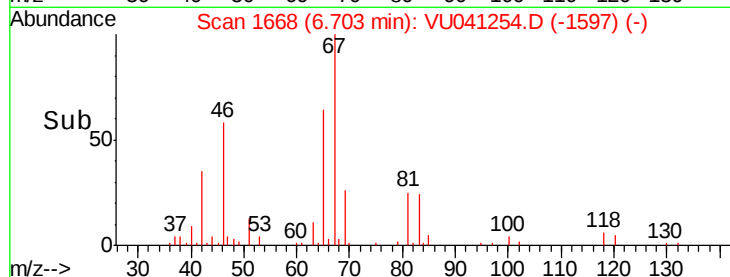
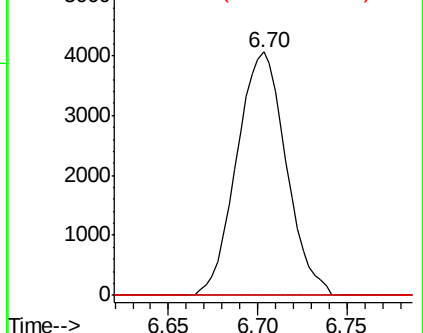
98 0.0 36.6 55.0#



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: 0.772 ug/L

RT: 6.70 min Scan# 1666

Delta R.T. -0.10 min

Lab File: VU041254.D

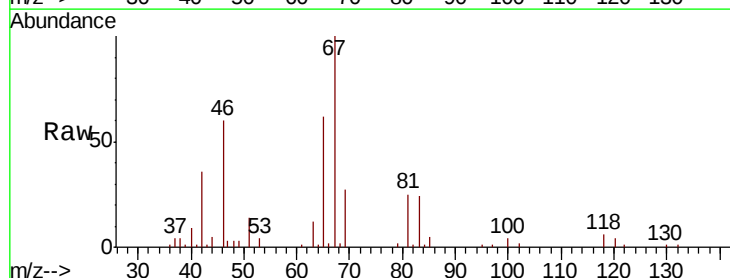
Acq: 16 Nov 2020 17:40

Tgt Ion: 63 Resp: 3902

Ion Ratio Lower Upper

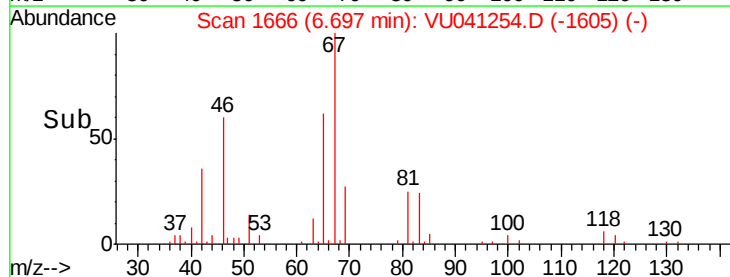
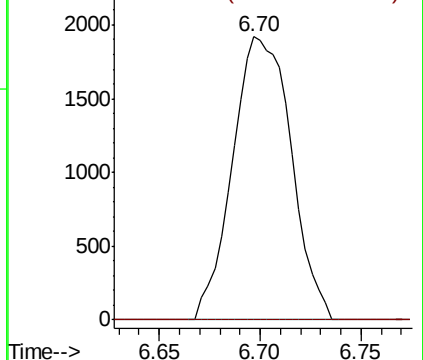
63 100

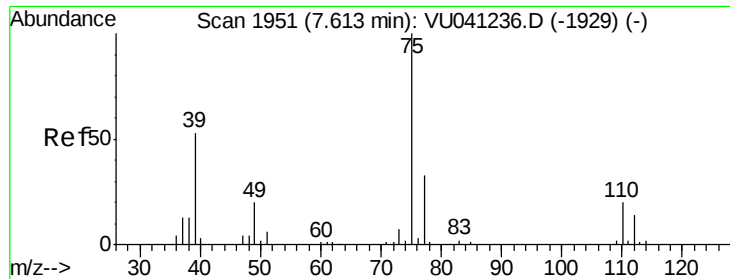
112 0.0 3.6 5.4#



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 112.10 (111.80 to 112.80): V

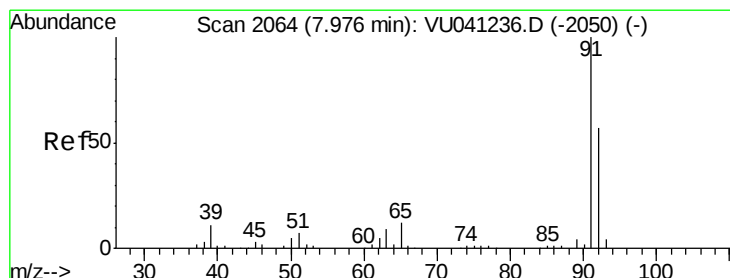
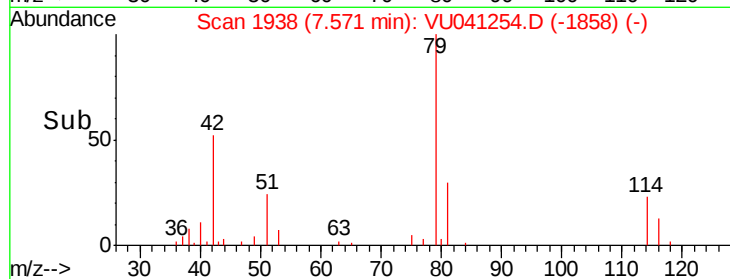
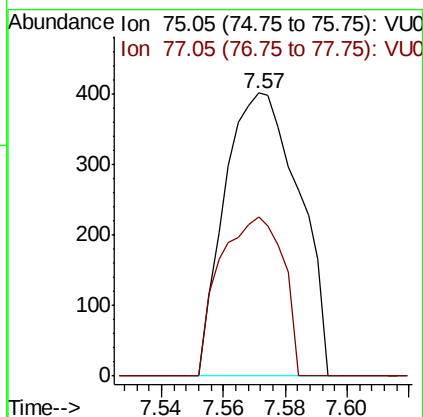
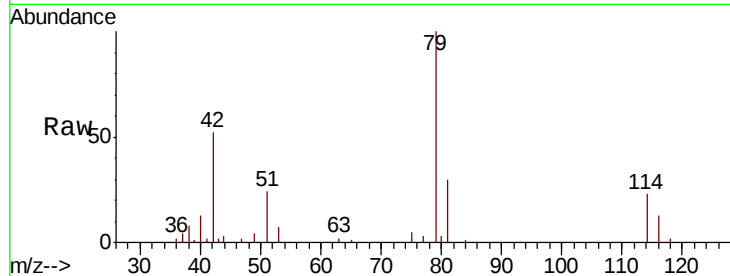




#39
 cis-1,3-Dichloropropene
 Concen: 0.095 ug/L
 RT: 7.57 min Scan# 1938
 Delta R.T. -0.04 min
 Lab File: VU041254.D
 Acq: 16 Nov 2020 17:40

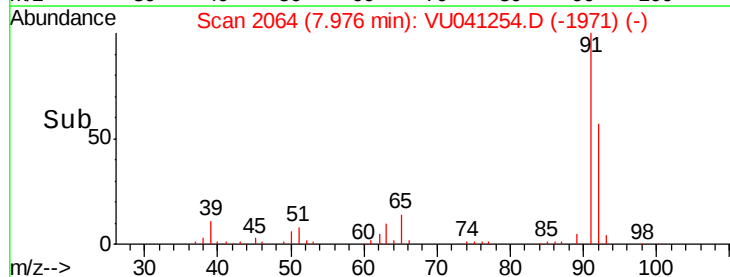
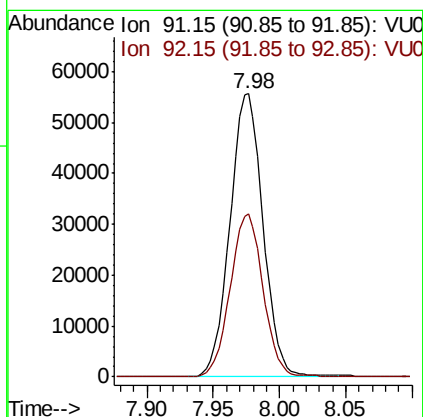
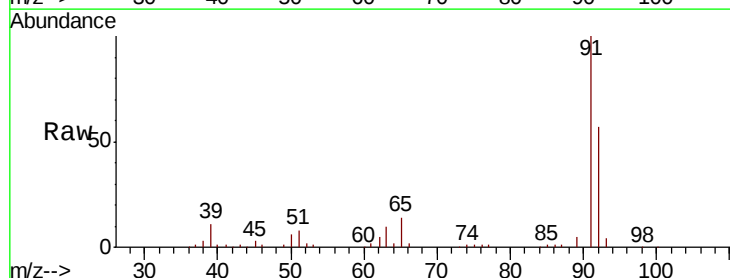
Instrument :
 MSVOA_U
 ClientSampleId :
 GB110MSD

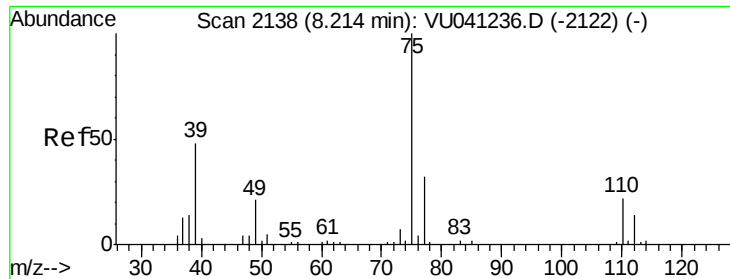
Tot Ion: 75 Resp: 668
 Ion Ratio Lower Upper
 75 100
 77 56.1 22.7 42.3#



#42
 Toluene
 Concen: 5.229 ug/L
 RT: 7.98 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VU041254.D
 Acq: 16 Nov 2020 17:40

Tgt Ion: 91 Resp: 96682
 Ion Ratio Lower Upper
 91 100
 92 57.4 40.6 75.4





#44

trans-1,3-Dichloropropene

Concen: 0.071 ug/L

RT: 8.18 min Scan# 2128

Delta R.T. -0.03 min

Lab File: VU041254.D

Acq: 16 Nov 2020 17:40

Instrument :

MSVOA_U

ClientSampleId :

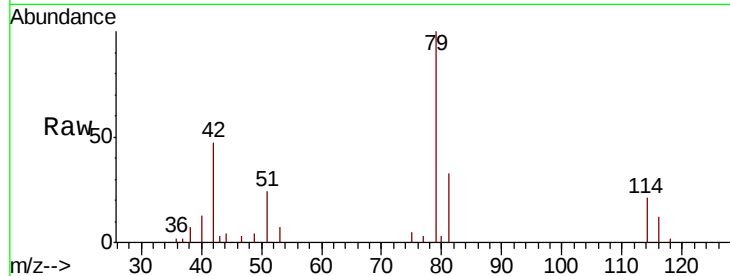
GB110MSD

Tot Ion: 75 Resp: 473

Ion Ratio Lower Upper

75 100

77 53.7 23.3 43.3#



Abundance Ion 75.05 (74.75 to 75.75): VU041236.D (-2122) (-)

Ion 77.05 (76.75 to 77.75): VU041236.D (-2122) (-)

8.18

300

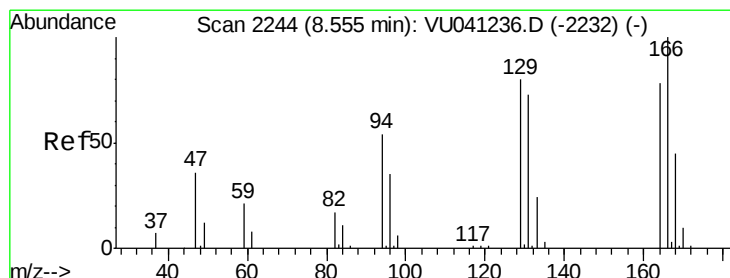
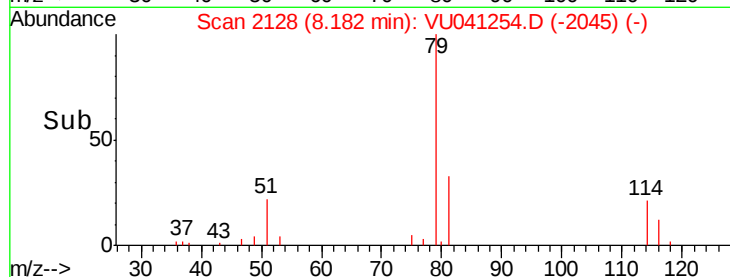
200

100

0

8.16 8.18 8.20

Time-->



#47

Tetrachloroethene

Concen: 0.954 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU041254.D

Acq: 16 Nov 2020 17:40

Tgt Ion: 164 Resp: 3297

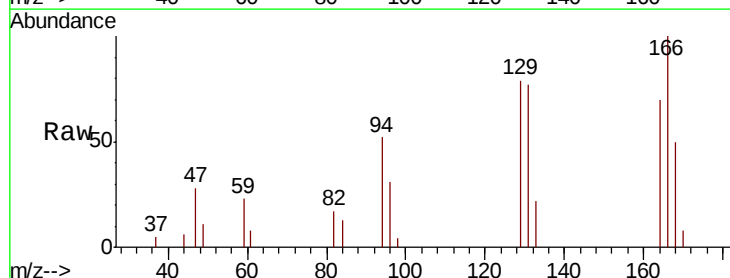
Ion Ratio Lower Upper

164 100

129 112.4 70.3 130.7

131 109.0 70.8 131.4

166 142.1 92.0 170.8



Abundance Ion 163.90 (163.60 to 164.60): VU041236.D (-2232) (-)

Ion 128.95 (128.65 to 129.65): VU041236.D (-2232) (-)

Ion 130.95 (130.65 to 131.65): VU041236.D (-2232) (-)

Ion 165.90 (165.60 to 166.60): VU041236.D (-2232) (-)

4000

3000

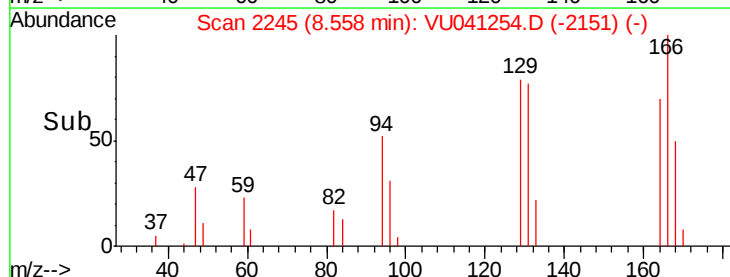
2000

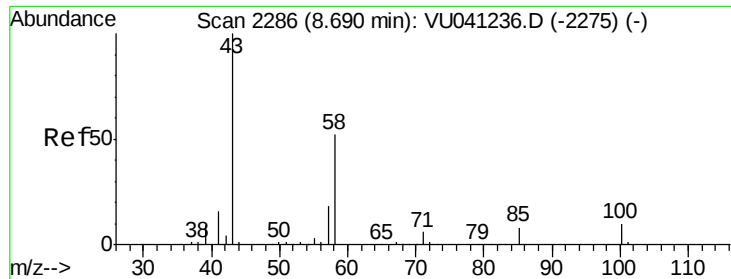
1000

0

8.50 8.55 8.60

Time-->

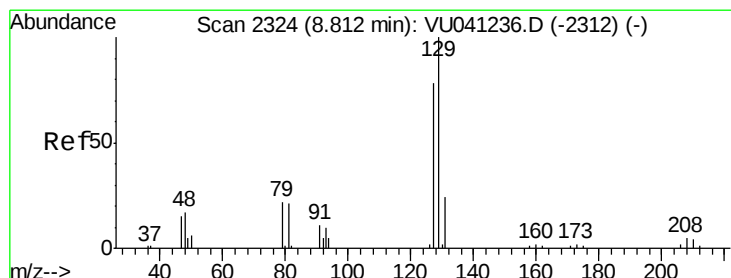
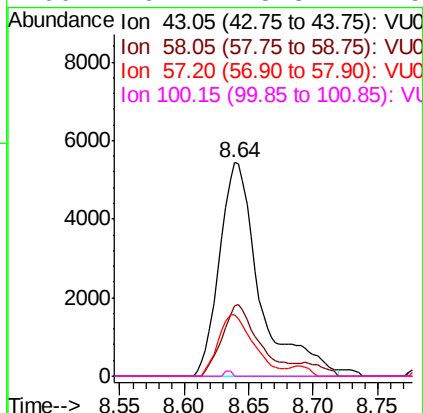
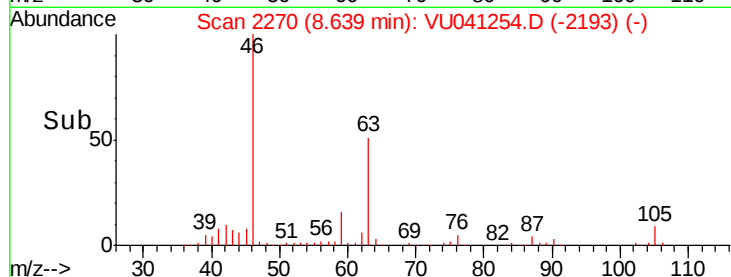
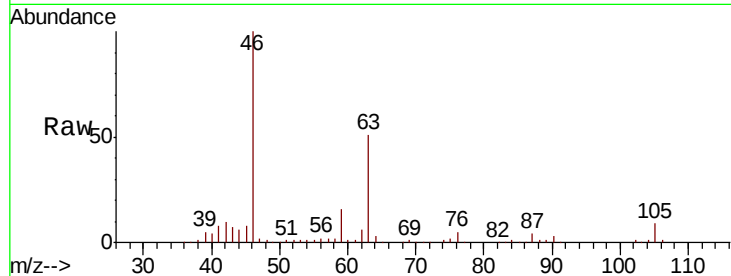




#48
2-Hexanone
Concen: 3.779 ug/L
RT: 8.64 min Scan# 2270
Delta R.T. -0.05 min
Lab File: VU041254.D
Acq: 16 Nov 2020 17:40

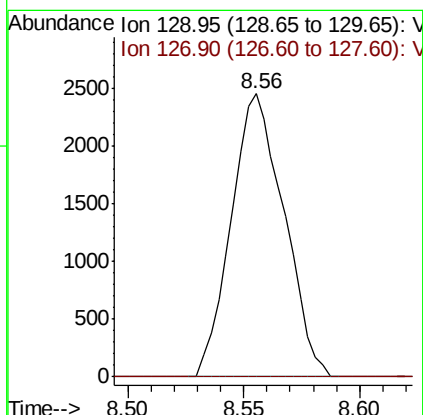
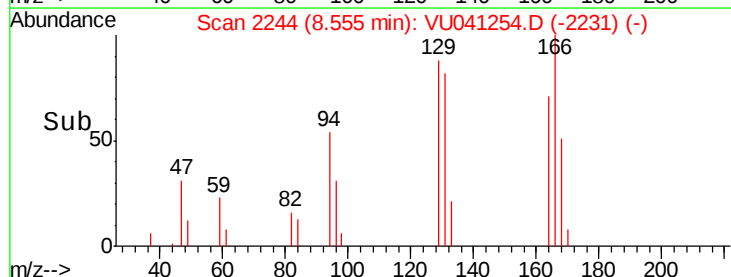
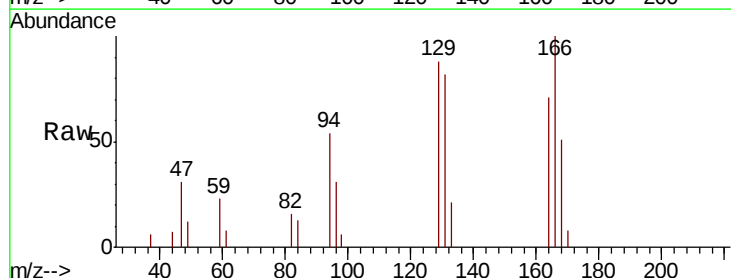
Instrument :
MSVOA_U
ClientSampleId :
GB110MSD

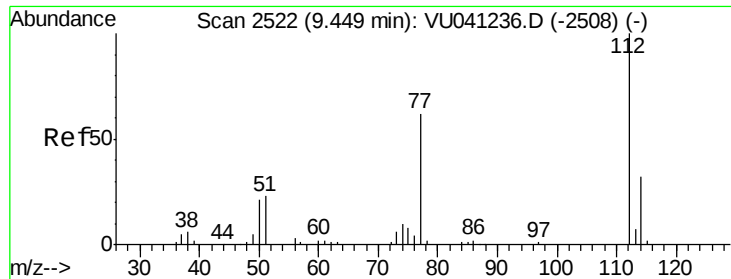
Tot Ion:	43	Resp:	11806
Ion	Ratio	Lower	Upper
43	100		
58	31.1	41.4	62.2#
57	25.8	14.6	21.8#
100	0.4	8.3	12.5#



#49
Dibromochloromethane
Concen: 0.836 ug/L
RT: 8.56 min Scan# 2244
Delta R.T. -0.26 min
Lab File: VU041254.D
Acq: 16 Nov 2020 17:40

Tgt Ion:	129	Resp:	3876
Ion	Ratio	Lower	Upper
129	100		
127	0.0	53.4	99.2#

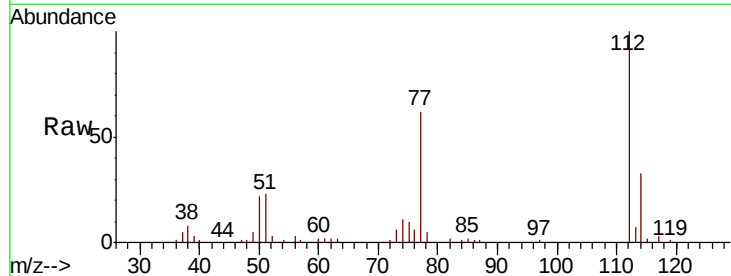




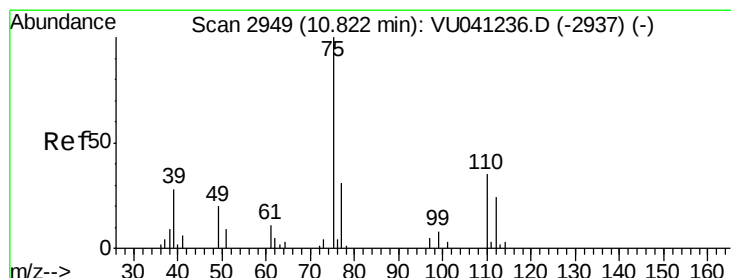
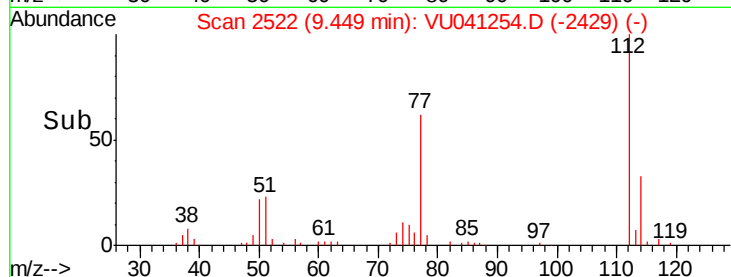
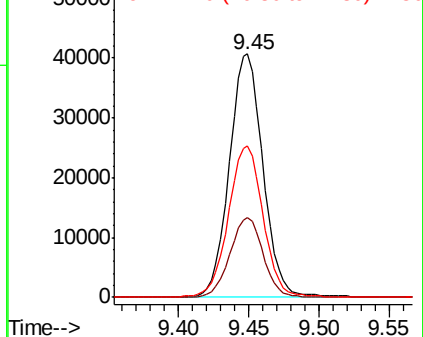
#51
Chlorobenzene
Concen: 5.549 ug/L
RT: 9.45 min Scan# 2522
Delta R.T. 0.00 min
Lab File: VU041254.D
Acq: 16 Nov 2020 17:40

Instrument :
MSVOA_U
ClientSampleId :
GB110MSD

Tot Ion:112 Resp: 67957
Ion Ratio Lower Upper
112 100
114 32.6 22.4 41.6
77 62.0 51.2 76.8

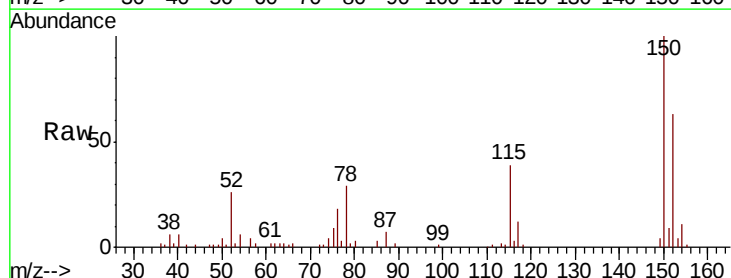


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V



#59
1,2,3-Trichloropropane
Concen: 0.777 ug/L
RT: 11.81 min Scan# 3255
Delta R.T. 0.98 min
Lab File: VU041254.D
Acq: 16 Nov 2020 17:40

Tgt Ion: 75 Resp: 3099
Ion Ratio Lower Upper
75 100
77 0.0 25.7 38.5#



Abundance Ion 75.00 (74.70 to 75.70): VU0
Ion 77.00 (76.70 to 77.70): VU0

