

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102120\
 Data File : VU040867.D
 Acq On : 21 Oct 2020 12:14
 Operator : SY/MD
 Sample : VSTD00502
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

Quant Time: Oct 22 00:09:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Oct 22 00:01:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	260295	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	260674	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	133892	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	91288	4.40	ug/L	0.00
7) Chloroethane-d5	1.92	69	78418	4.83	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.58	63	188846	4.62	ug/L	0.00
20) 2-Butanone-d5	4.64	46	318200	47.52	ug/L	0.00
24) Chloroform-d	5.08	84	198955	5.27	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.72	65	110936	4.87	ug/L	0.00
32) Benzene-d6	5.74	84	345989	5.01	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.70	67	117198	5.05	ug/L	0.00
41) Toluene-d8	7.91	98	316997	5.13	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.19	79	46590	4.86	ug/L	0.00
46) 2-Hexanone-d5	8.64	63	247097	49.93	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.75	84	103119	4.98	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.19	152	116901	4.76	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	131359	5.511	ug/L 100
3) Chloromethane	1.52	50	143826	6.195	ug/L 100
5) Vinyl chloride	1.61	62	132292	5.582	ug/L 100
6) Bromomethane	1.86	94	66060	5.233	ug/L 100
8) Chloroethane	1.94	64	83884	5.567	ug/L 100
9) Trichlorofluoromethane	2.15	101	176916	5.286	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	104969	4.915	ug/L 100
12) 1,1-Dichloroethene	2.59	96	95982	5.221	ug/L 100
13) Acetone	2.64	43	206504	41.048	ug/L 100
14) Carbon disulfide	2.80	76	338774	6.224	ug/L 100
15) Methyl Acetate	2.96	43	51156	4.392	ug/L 100
16) Methylene chloride	3.06	84	109676	4.675	ug/L 100
17) Methyl tert-butyl Ether	3.38	73	231415	4.570	ug/L 100
18) trans-1,2-Dichloroethene	3.37	96	98209	5.090	ug/L 100
19) 1,1-Dichloroethane	3.89	63	200510	5.050	ug/L 100
21) 2-Butanone	4.72	43	334236	42.749	ug/L 100
22) cis-1,2-Dichloroethene	4.68	96	107026	5.149	ug/L 100
23) Bromochloromethane	4.99	128	49235	4.832	ug/L 100
25) Chloroform	5.11	83	203674	5.045	ug/L 100
27) 1,2-Dichloroethane	5.81	62	139761	4.898	ug/L 100
29) 1,1,1-Trichloroethane	5.33	97	172294	4.993	ug/L 100
30) Cyclohexane	5.40	56	172237	5.352	ug/L 100
31) Carbon tetrachloride	5.54	117	149040	5.053	ug/L 100
33) Benzene	5.79	78	430161	5.202	ug/L 100
34) Trichloroethene	6.55	95	104008	4.890	ug/L 100
35) Methylcyclohexane	6.77	83	163223	5.330	ug/L 100
37) 1,2-Dichloropropane	6.80	63	115824	5.074	ug/L 100
38) Bromodichloromethane	7.11	83	142090	4.882	ug/L 100
39) cis-1,3-Dichloropropene	7.62	75	153473	4.930	ug/L 100
40) 4-Methyl-2-pentanone	7.80	43	788077	44.814	ug/L 100

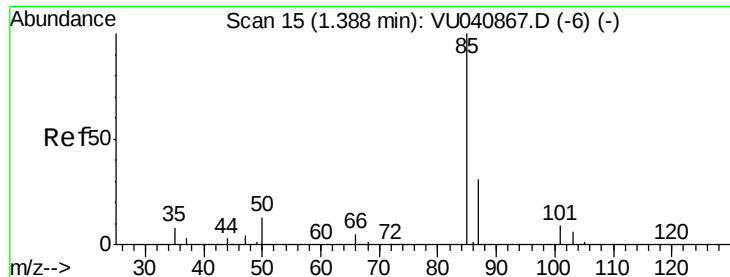
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102120\
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 QLast Update : Thu Oct 22 00:01:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.98	91	443302	5.278	ug/L	100
44) trans-1,3-Dichloropropene	8.22	75	140621	4.941	ug/L	100
45) 1,1,2-Trichloroethane	8.41	97	78695	4.666	ug/L	100
47) Tetrachloroethene	8.56	164	78297	5.153	ug/L	100
48) 2-Hexanone	8.69	43	584778	44.790	ug/L	100
49) Dibromochloromethane	8.82	129	93278	4.800	ug/L	100
50) 1,2-Dibromoethane	8.93	107	73817	4.601	ug/L	100
51) Chlorobenzene	9.45	112	273483	4.964	ug/L	100
52) Ethylbenzene	9.57	91	456898	5.061	ug/L	100
53) m,p-Xylene	9.70	106	172699	5.259	ug/L	100
54) o-Xylene	10.10	106	162947	5.181	ug/L	100
55) Styrene	10.11	104	293071	5.341	ug/L	100
56) Isopropylbenzene	10.48	105	440315	5.182	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.78	83	99625	4.507	ug/L	100
59) 1,2,3-Trichloropropane	10.82	75	73162	4.439	ug/L	100
61) Bromoform	10.29	173	48629	4.436	ug/L	100
62) 1,3-Dichlorobenzene	11.74	146	218933	5.085	ug/L	100
63) 1,4-Dichlorobenzene	11.83	146	221275	4.991	ug/L	100
65) 1,2-Dichlorobenzene	12.21	146	201276	4.824	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.99	75	17317	4.749	ug/L	100
67) 1,3,5-Trichlorobenzene	13.21	180	149612	4.896	ug/L	100
68) 1,2,4-trichlorobenzene	13.83	180	126361	5.301	ug/L	100
69) Naphthalene	14.08	128	231942	5.815	ug/L	100
70) 1,2,3-Trichlorobenzene	14.32	180	123299	5.564	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 5.511 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU040867.D

Acq: 21 Oct 2020 12:14

Instrument :

MSVOA_U

ClientSampleId :

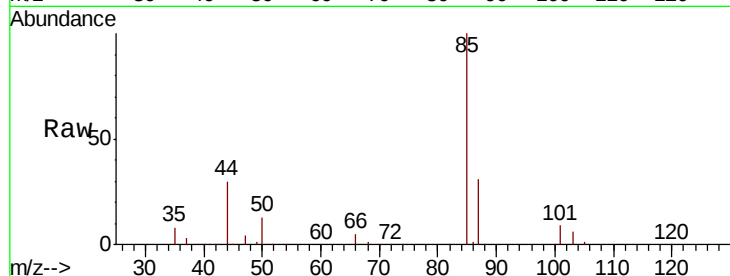
VSTD00502

Tot Ion: 85 Resp: 131359

Ion Ratio Lower Upper

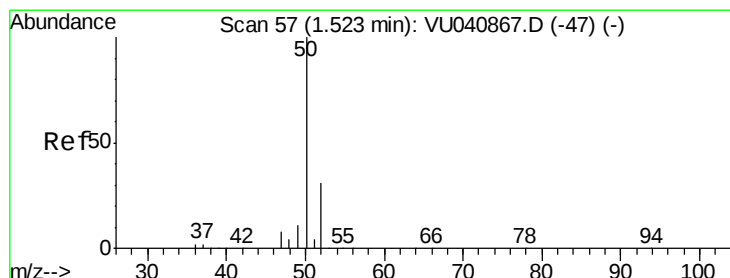
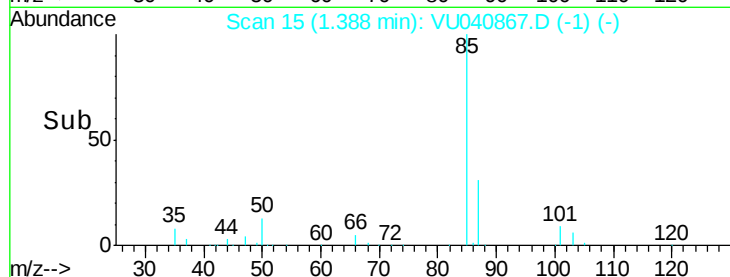
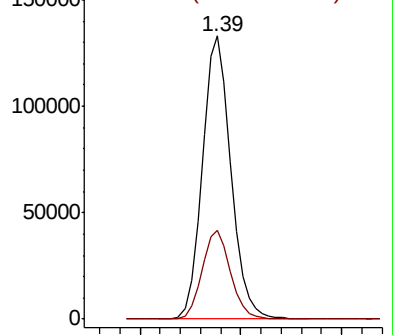
85 100

87 31.3 25.0 37.6



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 6.195 ug/L

RT: 1.52 min Scan# 57

Delta R.T. 0.00 min

Lab File: VU040867.D

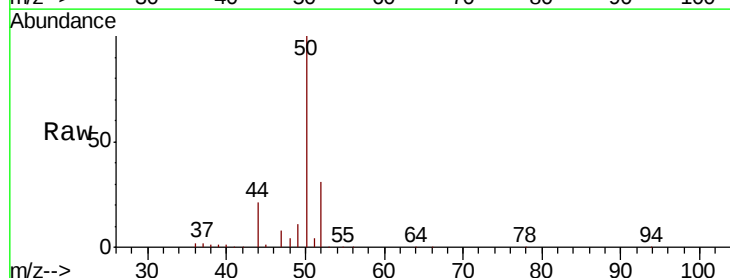
Acq: 21 Oct 2020 12:14

Tgt Ion: 50 Resp: 143826

Ion Ratio Lower Upper

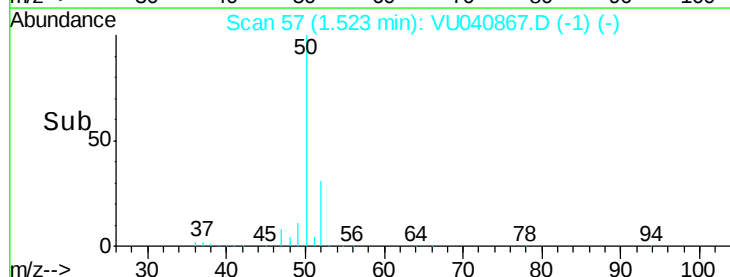
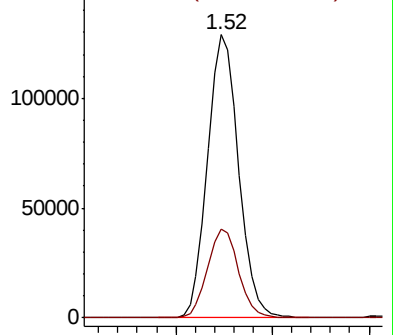
50 100

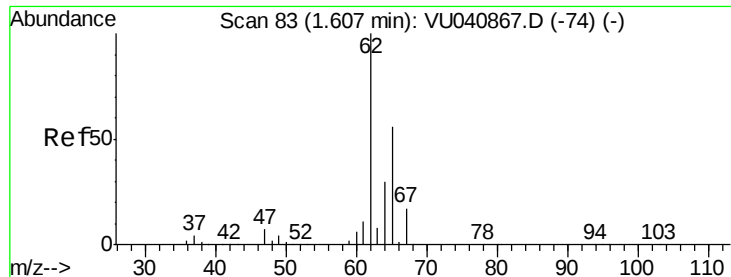
52 31.2 21.8 40.6



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 5.582 ug/L

RT: 1.61 min Scan# 83

Delta R.T. 0.00 min

Lab File: VU040867.D

Acq: 21 Oct 2020 12:14

Instrument :

MSVOA_U

ClientSampled :

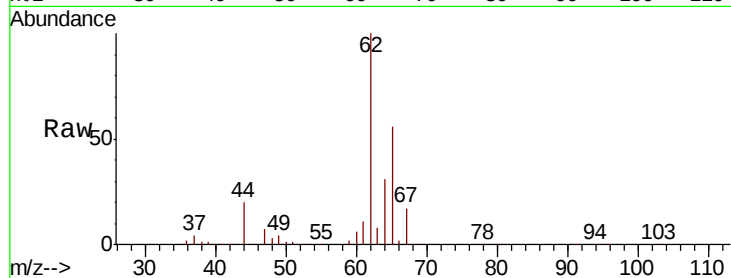
VSTD00502

Tot Ion: 62 Resp: 132292

Ion Ratio Lower Upper

62 100

64 31.2 21.8 40.6



Abundance Ion 62.00 (61.70 to 62.70): VU040867.D (-74) (-)

Ion 64.10 (63.80 to 64.80): VU040867.D (-74) (-)

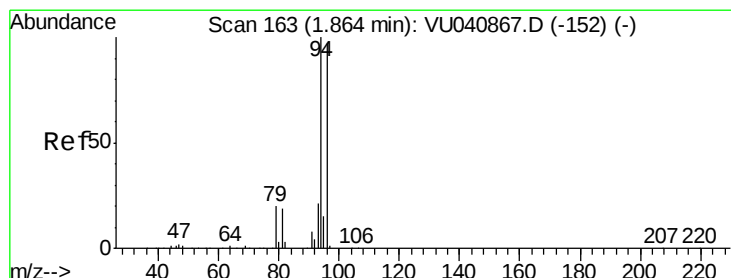
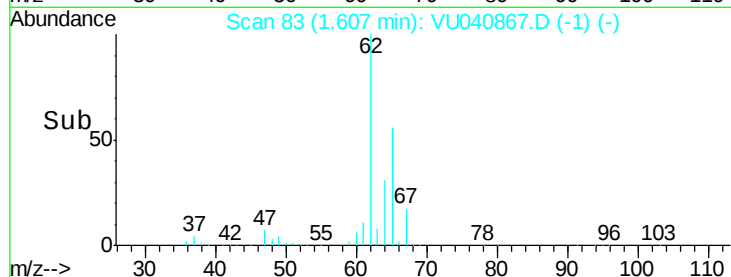
1.61

100000

50000

0

Time--> 1.55 1.60 1.65



#6

Bromomethane

Concen: 5.233 ug/L

RT: 1.86 min Scan# 163

Delta R.T. 0.00 min

Lab File: VU040867.D

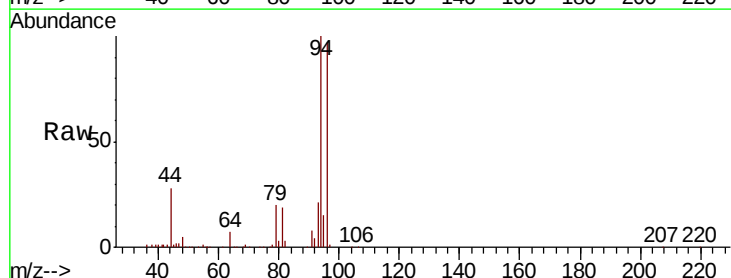
Acq: 21 Oct 2020 12:14

Tgt Ion: 94 Resp: 66060

Ion Ratio Lower Upper

94 100

96 96.8 67.8 125.8



Abundance Ion 94.00 (93.70 to 94.70): VU040867.D (-152) (-)

Ion 96.00 (95.70 to 96.70): VU040867.D (-152) (-)

1.86

60000

50000

40000

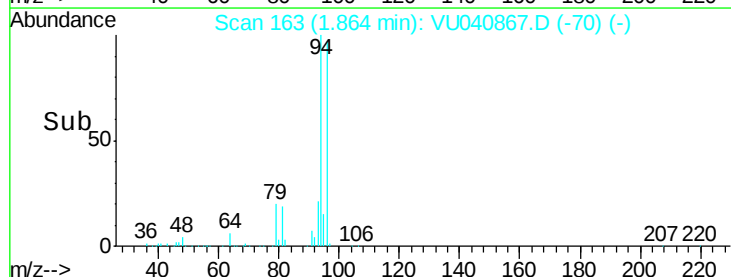
30000

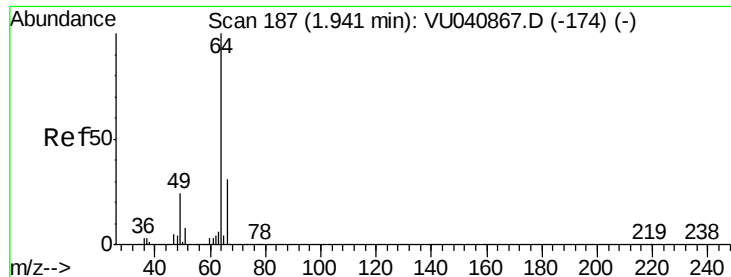
20000

10000

0

Time--> 1.80 1.85 1.90

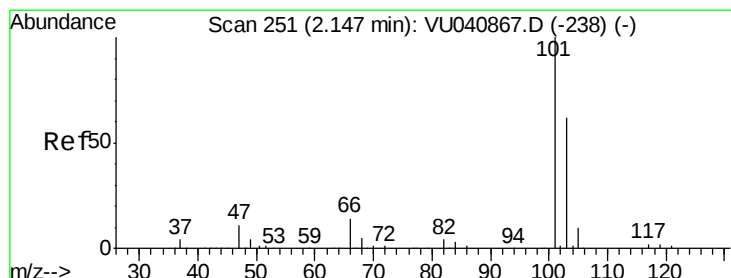
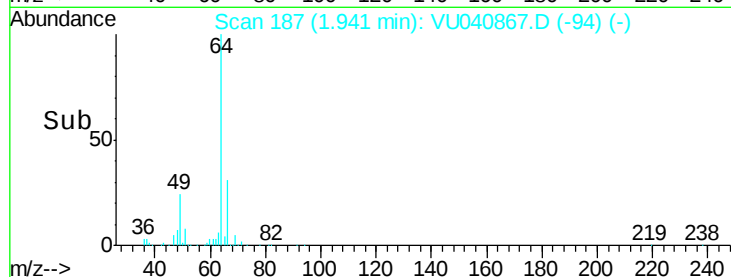
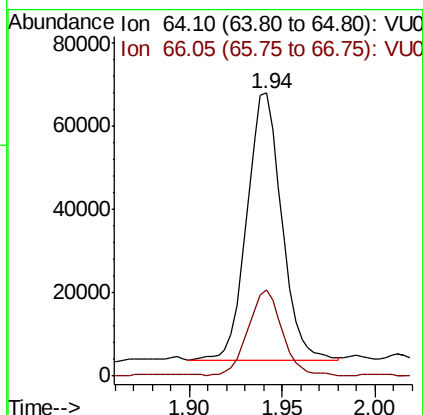
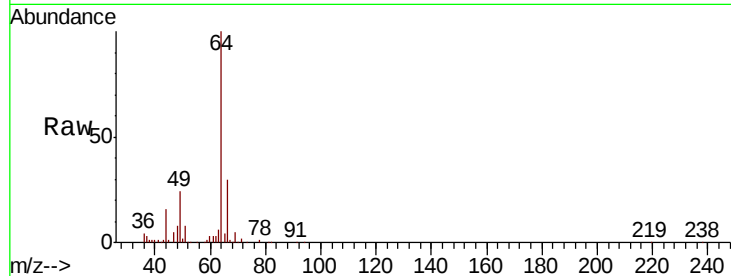




#8
Chloroethane
Concen: 5.567 ug/L
RT: 1.94 min Scan# 187
Delta R.T. 0.00 min
Lab File: VU040867.D
Acq: 21 Oct 2020 12:14

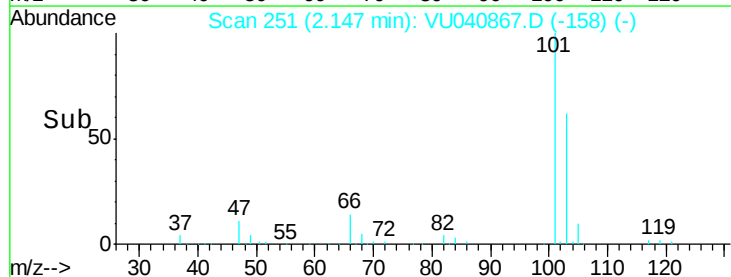
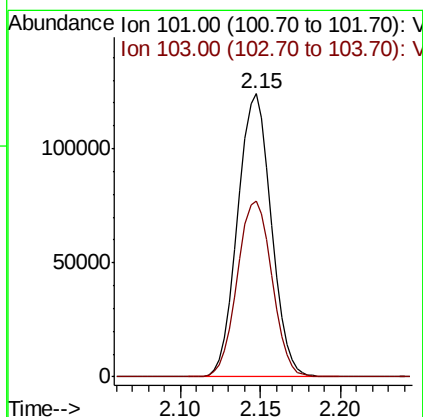
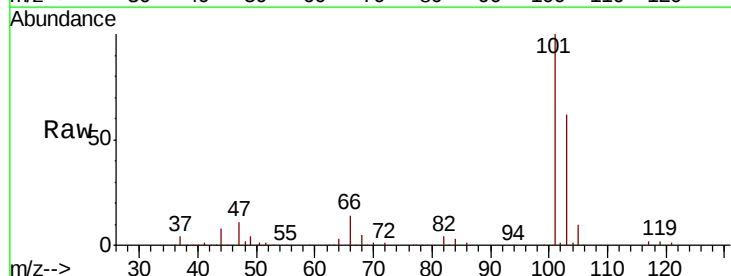
Instrument :
MSVOA_U
ClientSampleId :
VSTD00502

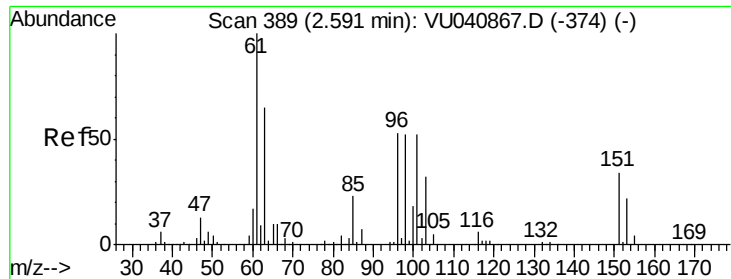
Tot Ion: 64 Resp: 83884
Ion Ratio Lower Upper
64 100
66 30.3 21.2 39.4



#9
Trichlorofluoromethane
Concen: 5.286 ug/L
RT: 2.15 min Scan# 251
Delta R.T. 0.00 min
Lab File: VU040867.D
Acq: 21 Oct 2020 12:14

Tgt Ion: 101 Resp: 176916
Ion Ratio Lower Upper
101 100
103 64.3 51.4 77.2





#10

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

Concen: 4.915 ug/L

RT: 2.59 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU040867.D

Acq: 21 Oct 2020 12:14

Instrument :

MSVOA_U

ClientSampleId :

VSTD00502

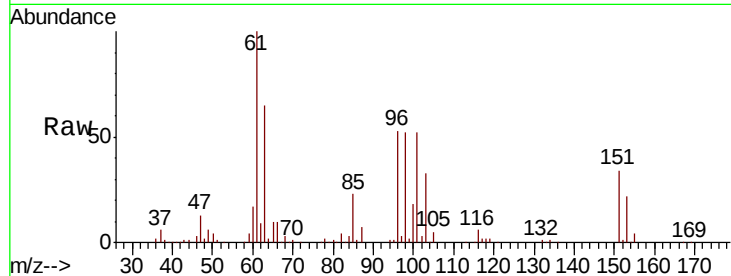
Tot Ion:101 Resp: 104969

Ion Ratio Lower Upper

101 100

85 45.5 36.4 54.6

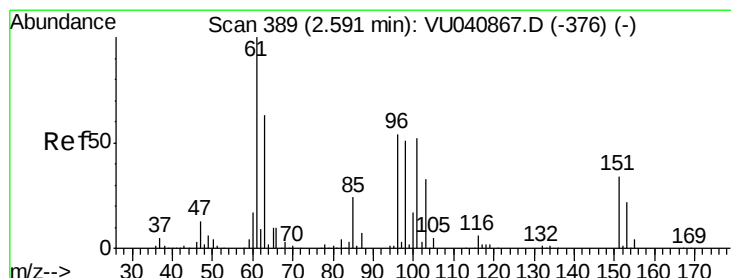
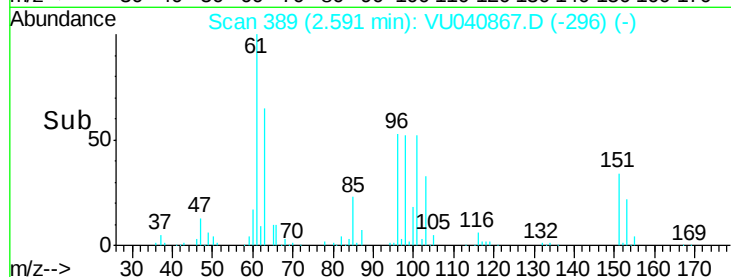
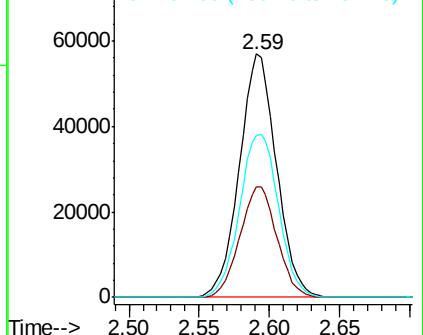
151 70.4 56.3 84.5



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: 5.221 ug/L

RT: 2.59 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU040867.D

Acq: 21 Oct 2020 12:14

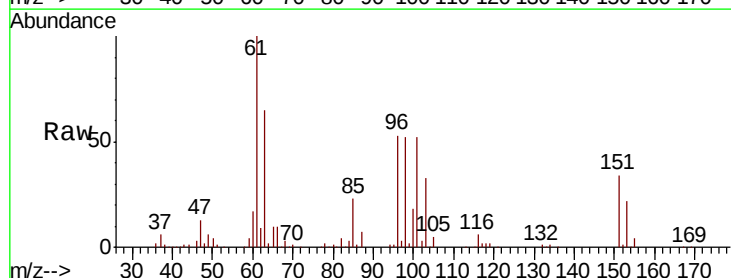
Tgt Ion: 96 Resp: 95982

Ion Ratio Lower Upper

96 100

61 187.0 130.9 243.1

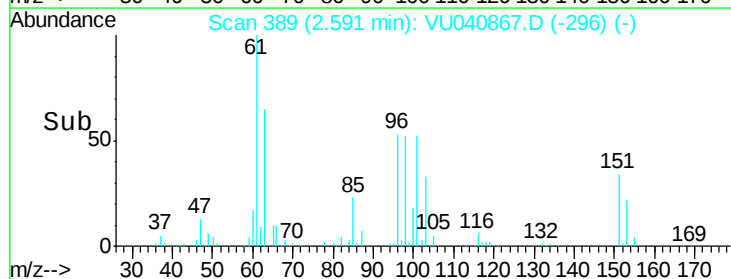
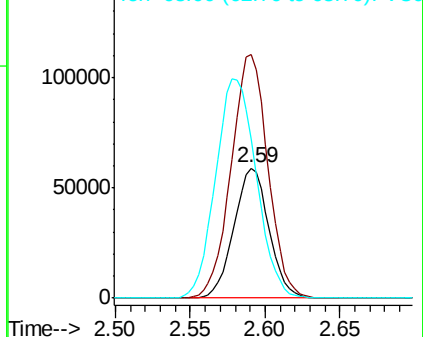
63 122.0 85.4 158.6

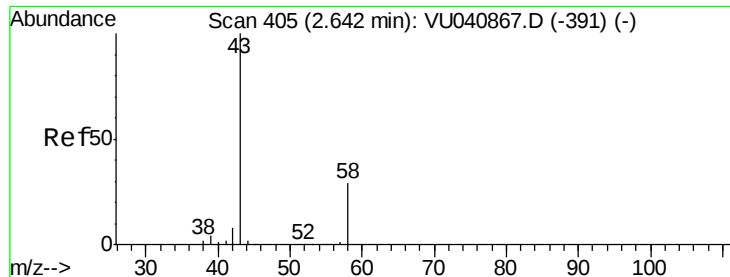


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 41.048 ug/L

RT: 2.64 min Scan# 405

Delta R.T. 0.00 min

Lab File: VU040867.D

Acq: 21 Oct 2020 12:14

Instrument :

MSVOA_U

ClientSampleId :

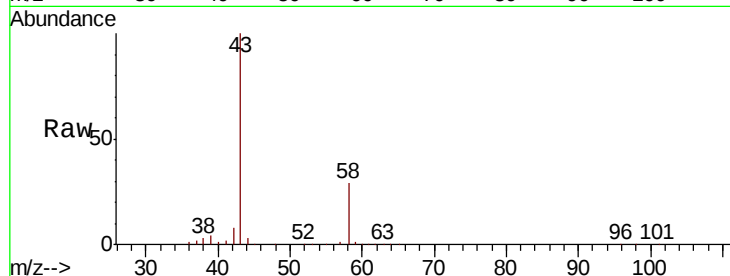
VSTD00502

Tot Ion: 43 Resp: 206504

Ion Ratio Lower Upper

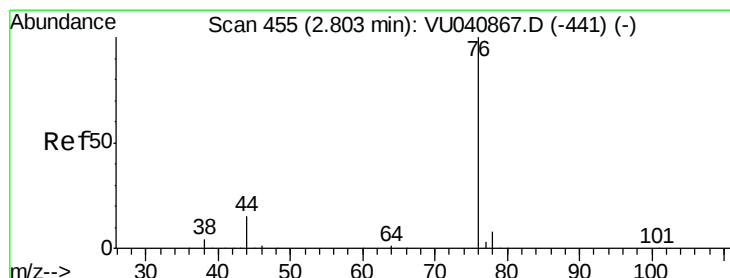
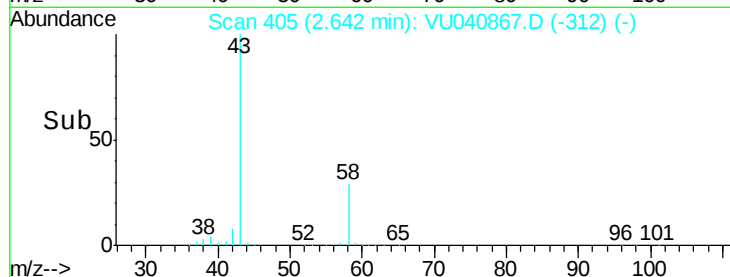
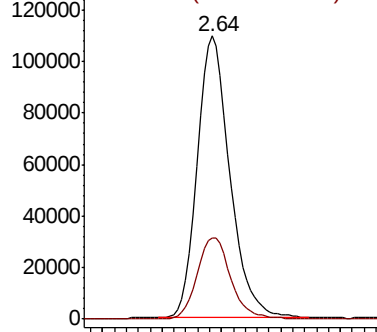
43 100

58 29.3 0.0 58.6



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#14

Carbon disulfide

Concen: 6.224 ug/L

RT: 2.80 min Scan# 455

Delta R.T. 0.00 min

Lab File: VU040867.D

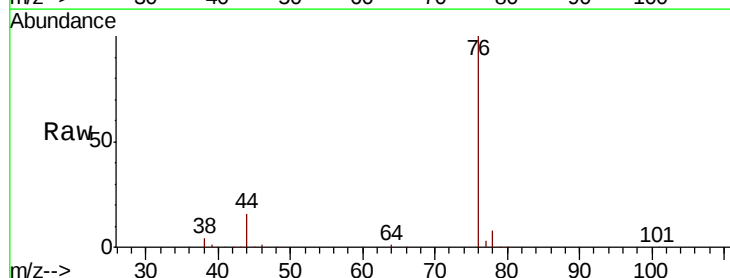
Acq: 21 Oct 2020 12:14

Tgt Ion: 76 Resp: 338774

Ion Ratio Lower Upper

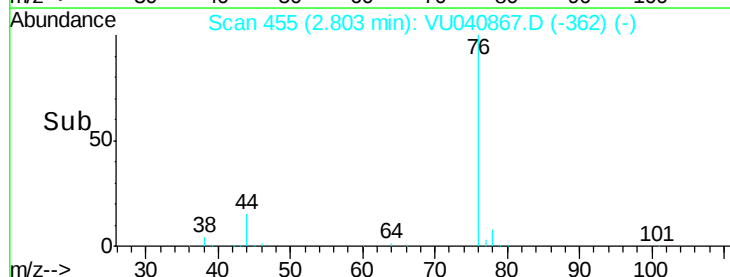
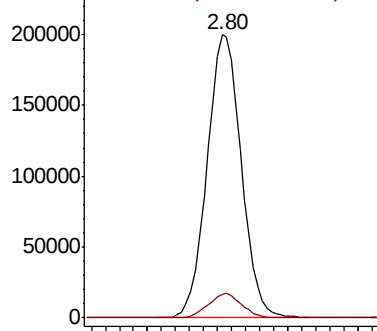
76 100

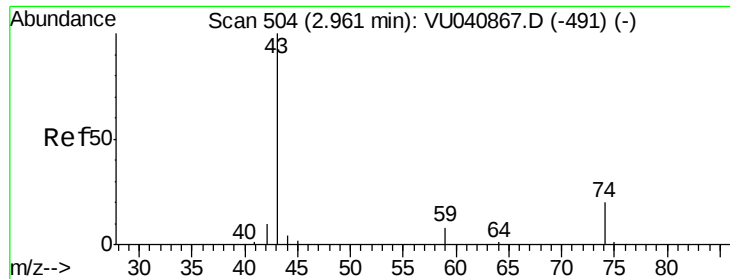
78 8.5 6.8 10.2



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0

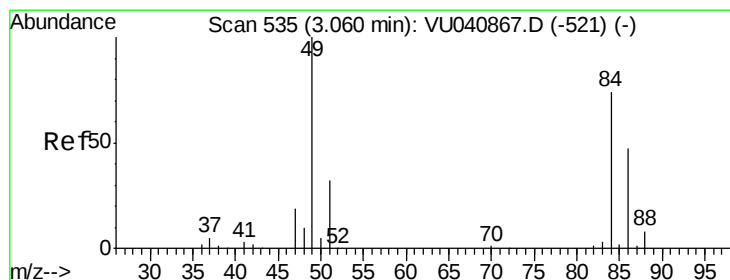
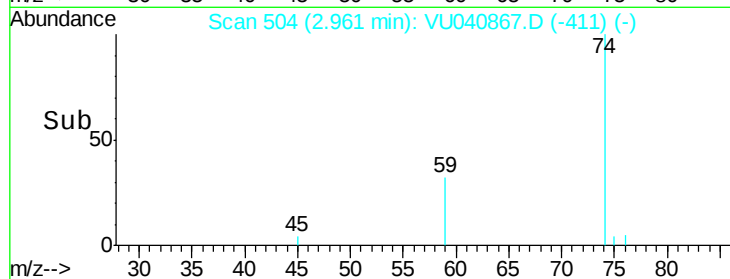
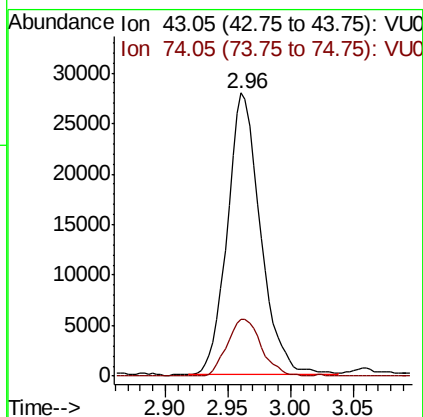
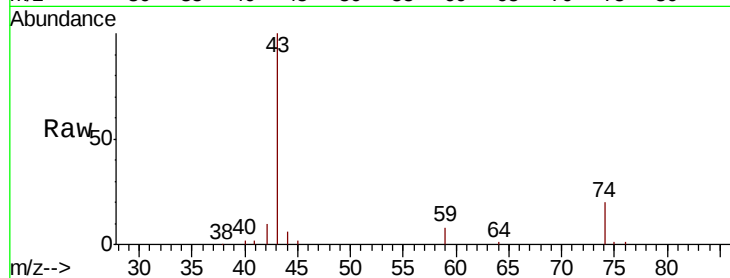




#15
Methvl Acetate
Concen: 4.392 ug/L
RT: 2.96 min Scan# 504
Delta R.T. 0.00 min
Lab File: VU040867.D
Acq: 21 Oct 2020 12:14

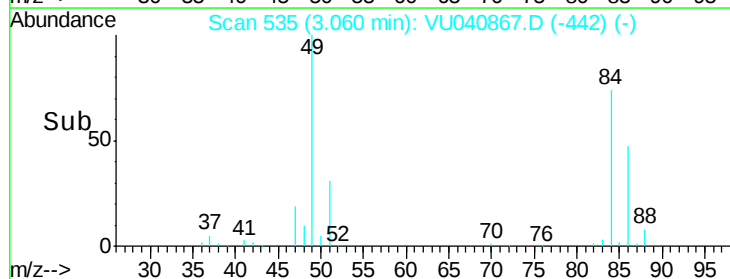
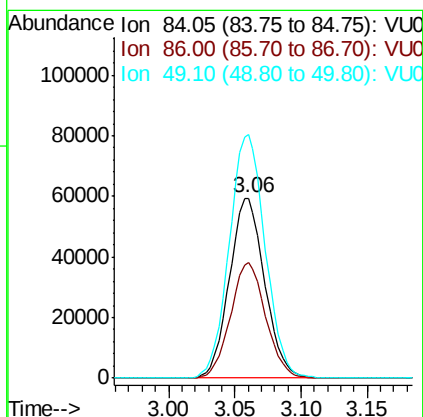
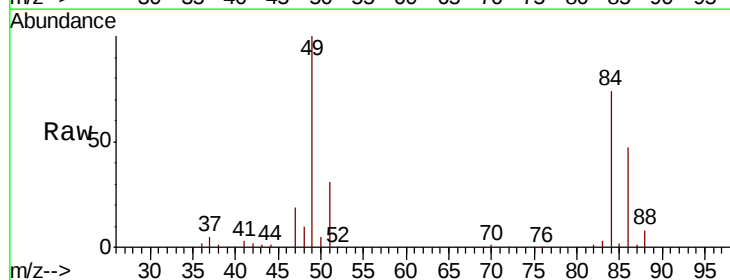
Instrument :
MSVOA_U
ClientSampleId :
VSTD00502

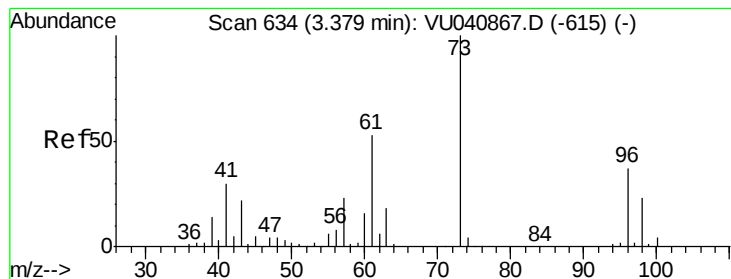
Tot Ion: 43 Resp: 51156
Ion Ratio Lower Upper
43 100
74 20.8 16.6 25.0



#16
Methylene chloride
Concen: 4.675 ug/L
RT: 3.06 min Scan# 535
Delta R.T. 0.00 min
Lab File: VU040867.D
Acq: 21 Oct 2020 12:14

Tgt Ion: 84 Resp: 109676
Ion Ratio Lower Upper
84 100
86 64.2 44.9 83.5
49 135.3 94.7 175.9



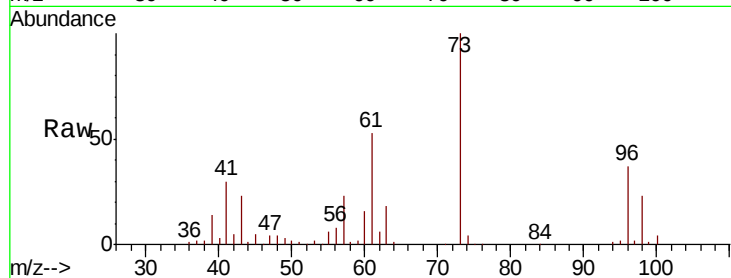


#17

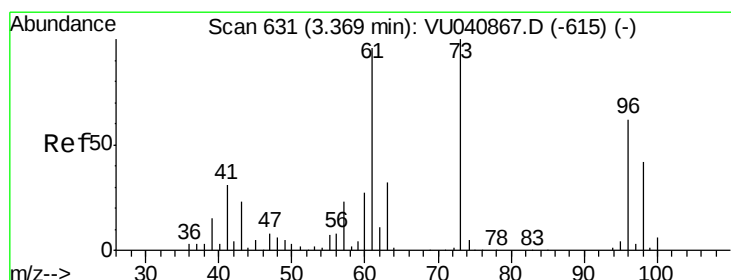
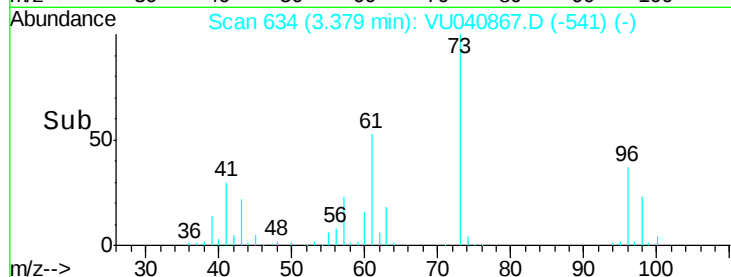
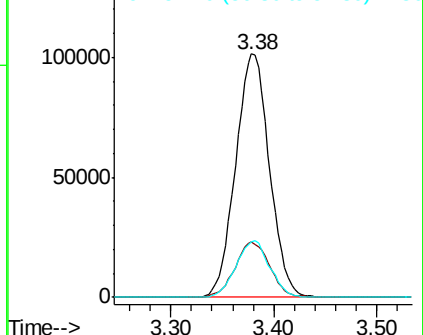
Methvl tert-butvl Ether
 Concen: 4.570 ug/L
 RT: 3.38 min Scan# 634
 Delta R.T. 0.00 min
 Lab File: VU040867.D
 Acq: 21 Oct 2020 12:14

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

Tot Ion	Ratio	Lower	Upper
73	100		
43	23.2	18.6	27.8
57	23.1	18.5	27.7



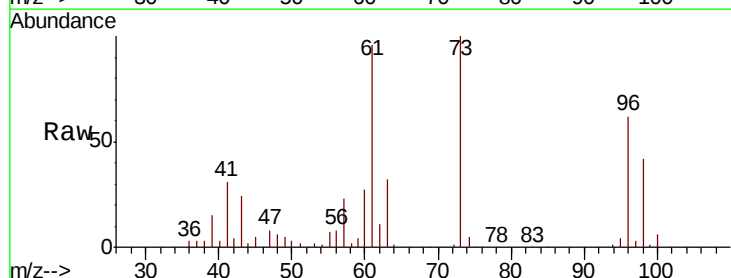
Abundance Ion 73.10 (72.80 to 73.80): VU0
 Ion 43.05 (42.75 to 43.75): VU0
 Ion 57.10 (56.80 to 57.80): VU0



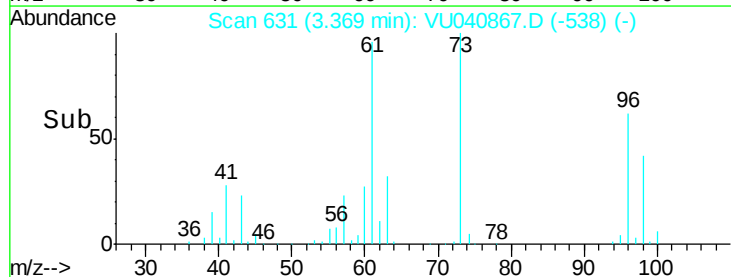
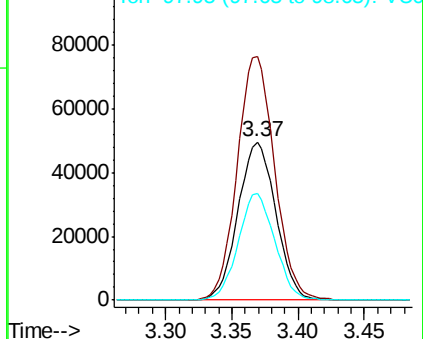
#18

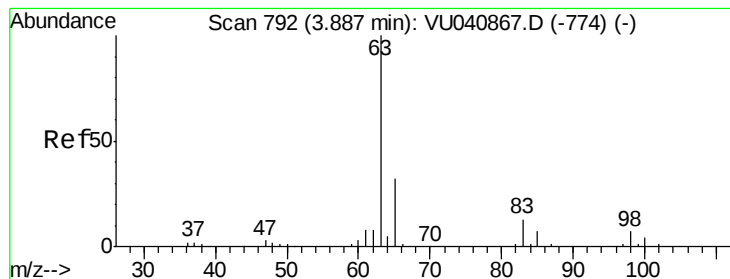
trans-1,2-Dichloroethene
 Concen: 5.090 ug/L
 RT: 3.37 min Scan# 631
 Delta R.T. 0.00 min
 Lab File: VU040867.D
 Acq: 21 Oct 2020 12:14

Tgt Ion	Ratio	Lower	Upper
96	100		
61	154.1	107.9	200.3
98	67.8	47.5	88.1



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: 5.050 ug/L

RT: 3.89 min Scan# 792

Delta R.T. 0.00 min

Lab File: VU040867.D

Acq: 21 Oct 2020 12:14

Instrument :

MSVOA_U

ClientSampled :

VSTD00502

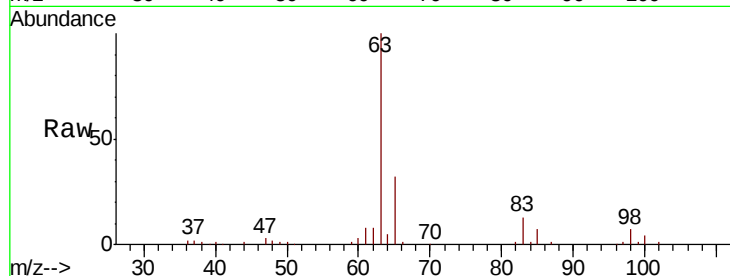
Tot Ion: 63 Resp: 200510

Ion Ratio Lower Upper

63 100

65 32.3 22.6 42.0

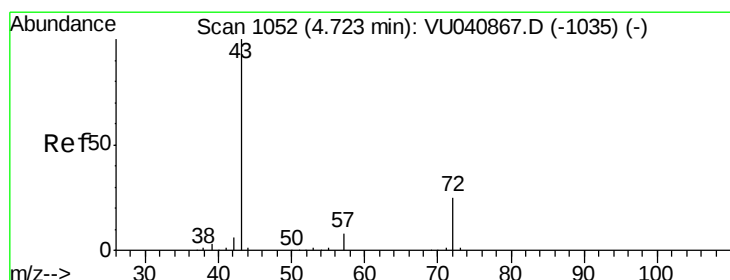
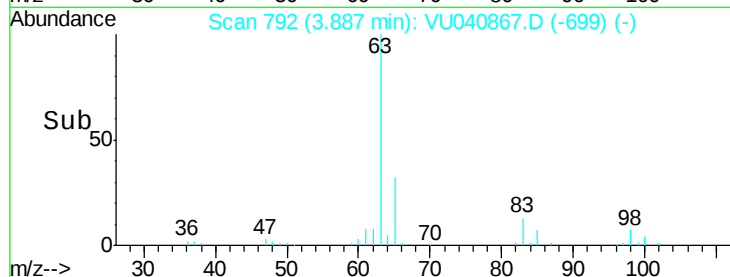
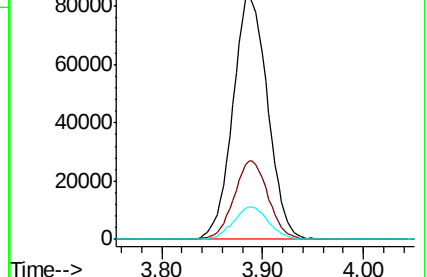
83 13.5 9.4 17.6



Abundance Ion 63.10 (62.80 to 63.80): VU040867.D (-774) (-)

Ion 65.10 (64.80 to 65.80): VU040867.D (-774) (-)

Ion 83.05 (82.75 to 83.75): VU040867.D (-774) (-)



#21

2-Butanone

Concen: 42.749 ug/L

RT: 4.72 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VU040867.D

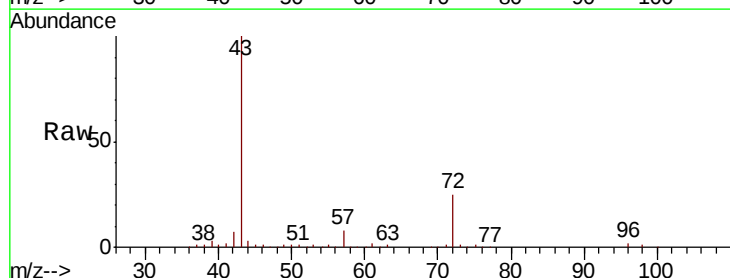
Acq: 21 Oct 2020 12:14

Tgt Ion: 43 Resp: 334236

Ion Ratio Lower Upper

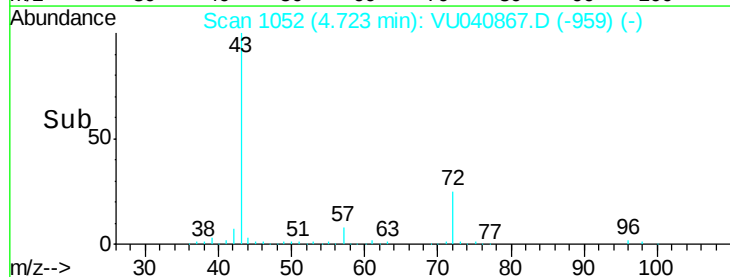
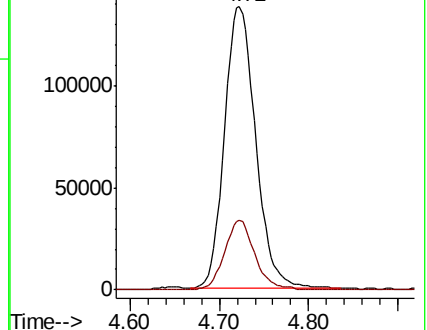
43 100

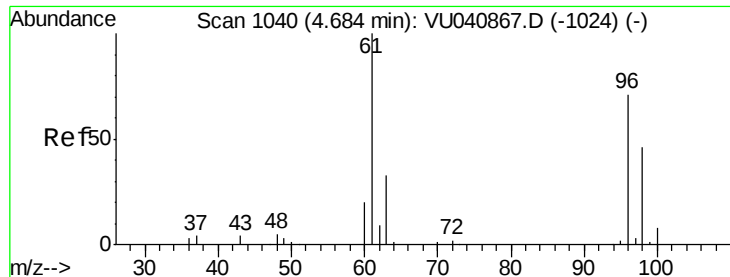
72 24.3 12.2 36.4



Abundance Ion 43.05 (42.75 to 43.75): VU040867.D (-1035) (-)

Ion 72.10 (71.80 to 72.80): VU040867.D (-1035) (-)





#22

cis-1,2-Dichloroethene

Concen: 5.149 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. 0.00 min

Lab File: VU040867.D

Acq: 21 Oct 2020 12:14

Instrument :

MSVOA_U

ClientSampleId :

VSTD00502

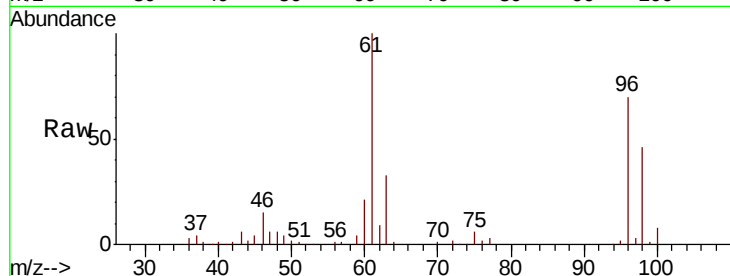
Tot Ion: 96 Resp: 107026

Ion Ratio Lower Upper

96 100

61 142.8 100.0 185.6

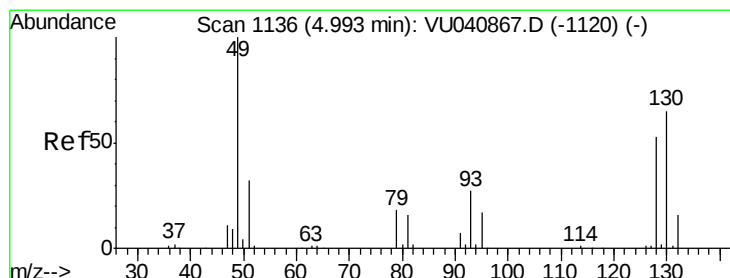
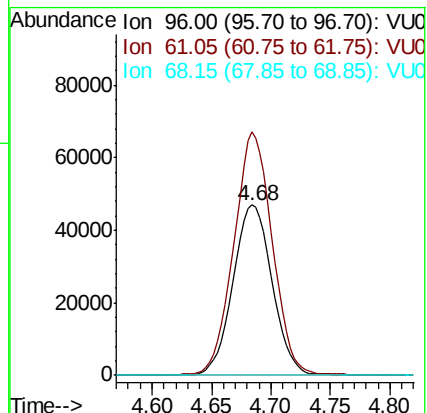
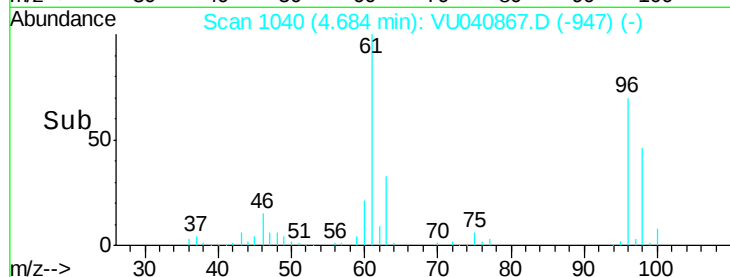
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU040867.D (-1024) (-)

Ion 61.05 (60.75 to 61.75): VU040867.D (-1024) (-)

Ion 68.15 (67.85 to 68.85): VU040867.D (-1024) (-)



#23

Bromochloromethane

Concen: 4.832 ug/L

RT: 4.99 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VU040867.D

Acq: 21 Oct 2020 12:14

Tgt Ion:128 Resp: 49235

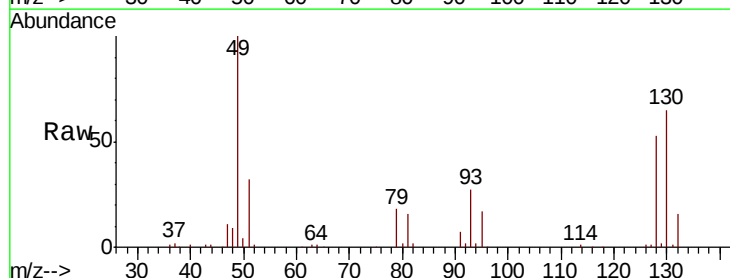
Ion Ratio Lower Upper

128 100

49 190.3 133.2 247.4

130 123.7 86.6 160.8

51 61.0 48.8 73.2

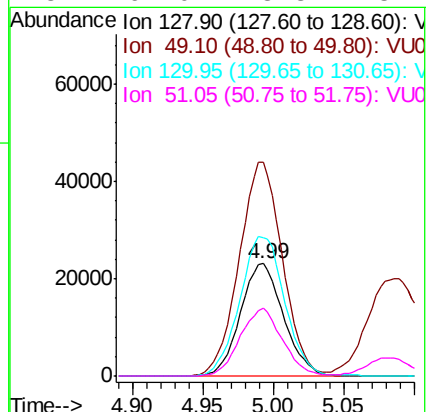
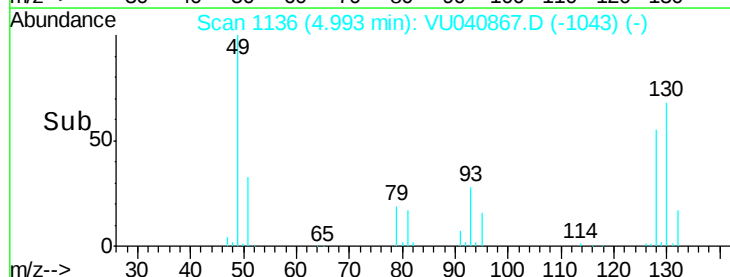


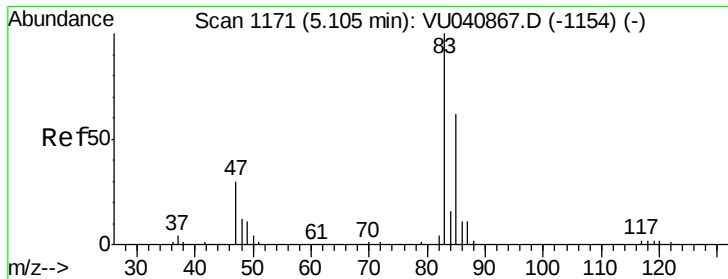
Abundance Ion 127.90 (127.60 to 128.60): VU040867.D (-1120) (-)

Ion 49.10 (48.80 to 49.80): VU040867.D (-1120) (-)

Ion 129.95 (129.65 to 130.65): VU040867.D (-1120) (-)

Ion 51.05 (50.75 to 51.75): VU040867.D (-1120) (-)

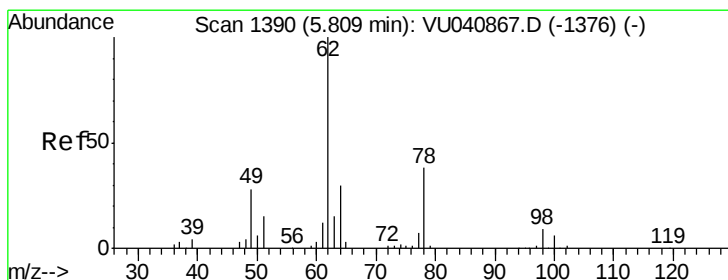
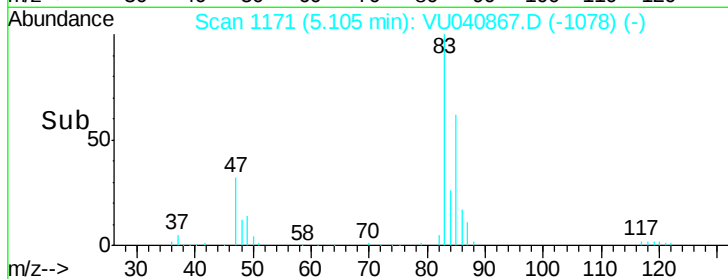
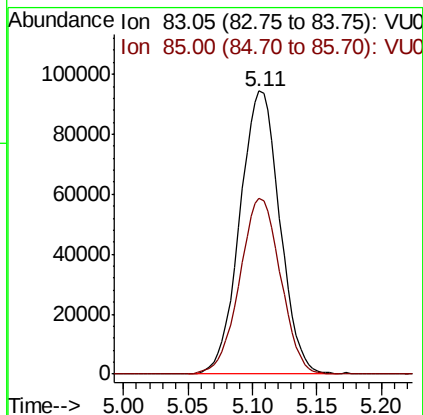
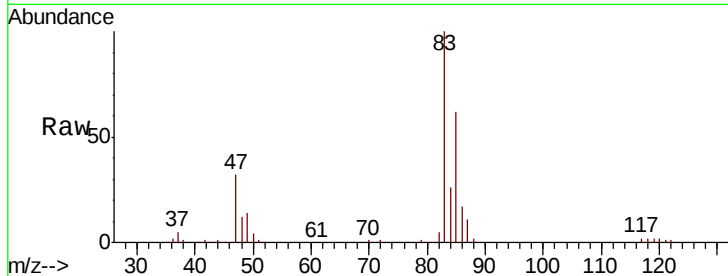




#25
Chloroform
Concen: 5.045 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. 0.00 min
Lab File: VU040867.D
Acq: 21 Oct 2020 12:14

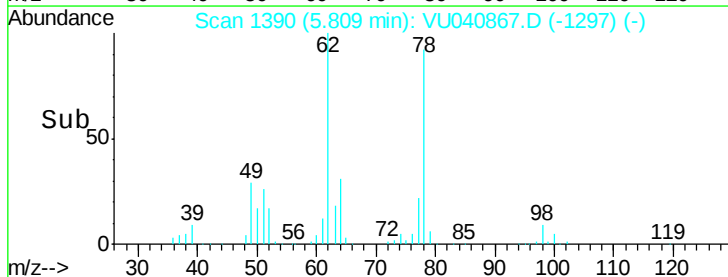
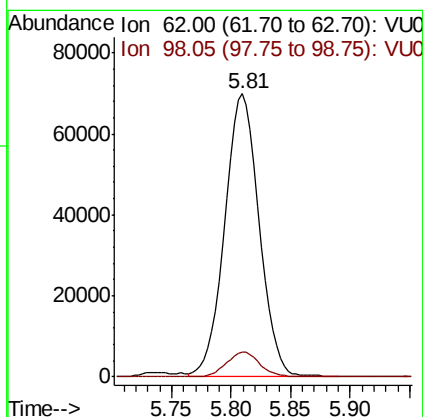
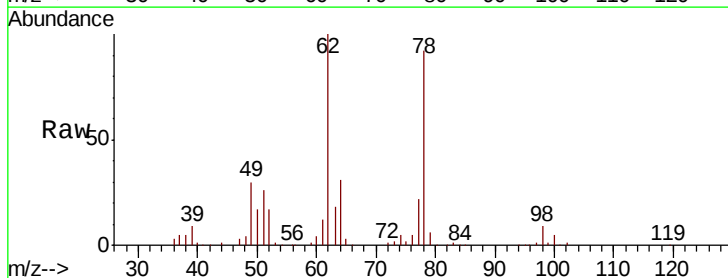
Instrument :
MSVOA_U
ClientSampleId :
VSTD00502

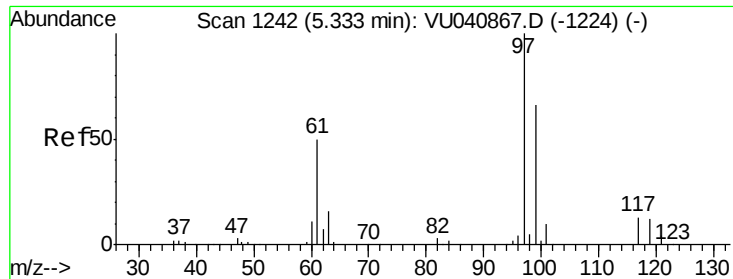
Tot Ion: 83 Resp: 203674
Ion Ratio Lower Upper
83 100
85 62.0 43.4 80.6



#27
1,2-Dichloroethane
Concen: 4.898 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VU040867.D
Acq: 21 Oct 2020 12:14

Tgt Ion: 62 Resp: 139761
Ion Ratio Lower Upper
62 100
98 8.8 7.0 10.6

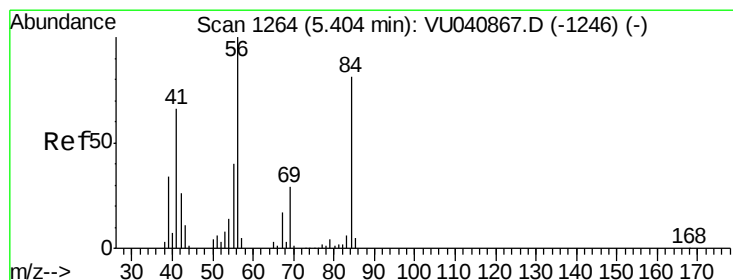
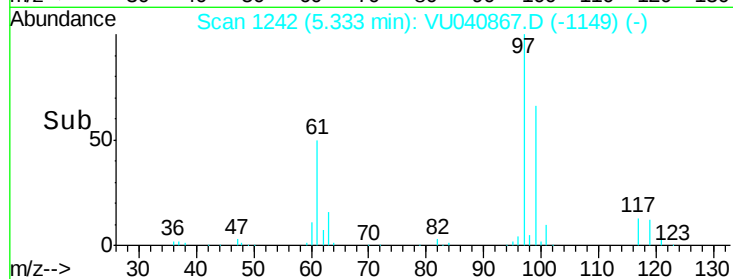
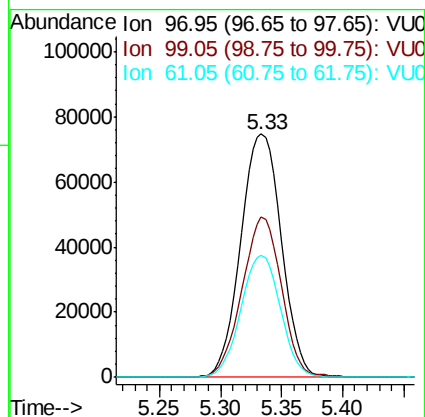
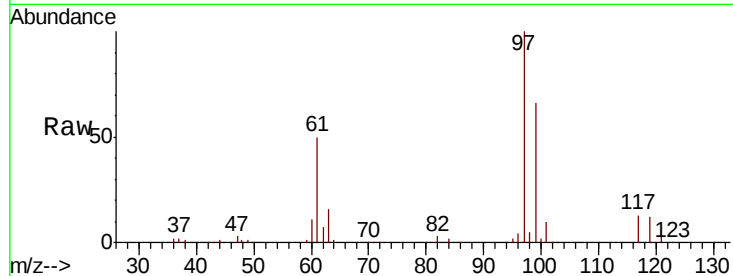




#29
 1,1,1-Trichloroethane
 Concen: 4.993 ug/L
 RT: 5.33 min Scan# 1242
 Delta R.T. 0.00 min
 Lab File: VU040867.D
 Acq: 21 Oct 2020 12:14

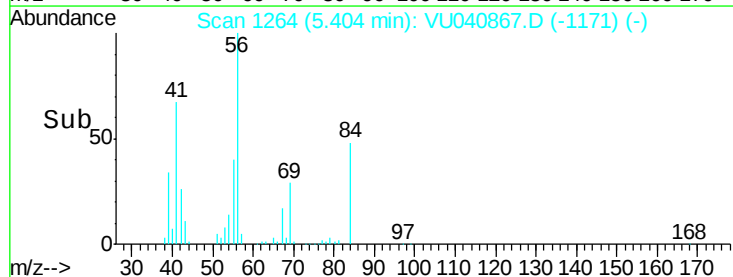
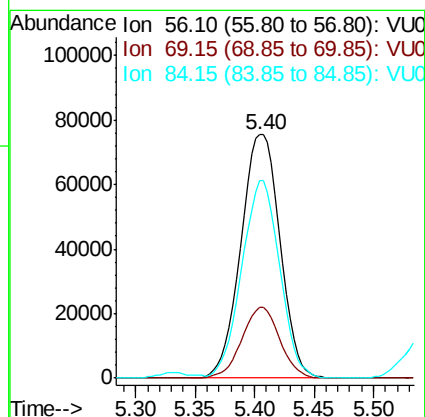
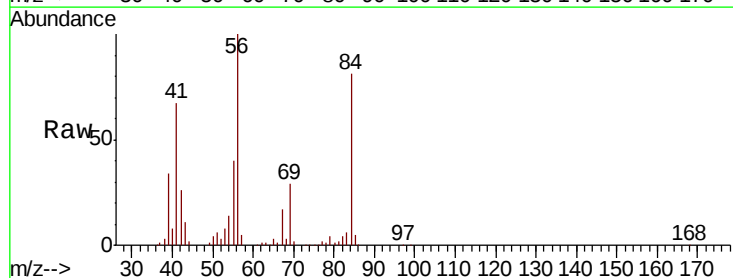
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

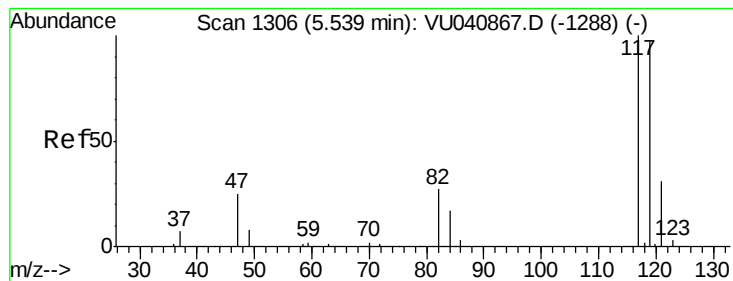
Tot Ion: 97 Resp: 172294
 Ion Ratio Lower Upper
 97 100
 99 64.0 51.2 76.8
 61 48.8 39.0 58.6



#30
 Cyclohexane
 Concen: 5.352 ug/L
 RT: 5.40 min Scan# 1264
 Delta R.T. 0.00 min
 Lab File: VU040867.D
 Acq: 21 Oct 2020 12:14

Tgt Ion: 56 Resp: 172237
 Ion Ratio Lower Upper
 56 100
 69 28.2 22.6 33.8
 84 78.8 63.0 94.6





#31

Carbon tetrachloride

Concen: 5.053 ug/L

RT: 5.54 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU040867.D

Acq: 21 Oct 2020 12:14

Instrument :

MSVOA_U

ClientSampleId :

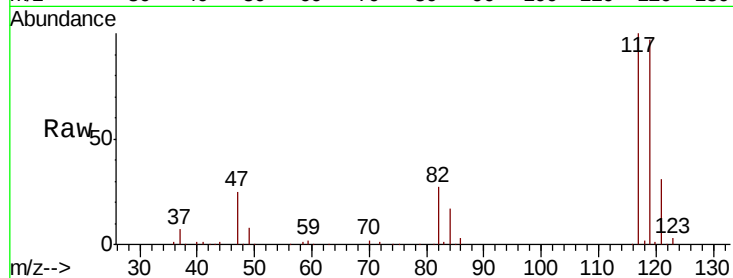
VSTD00502

Tot Ion:117 Resp: 149040

Ion Ratio Lower Upper

117 100

119 96.5 77.2 115.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.54

80000

60000

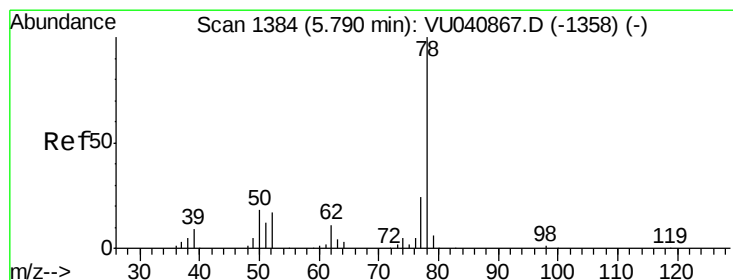
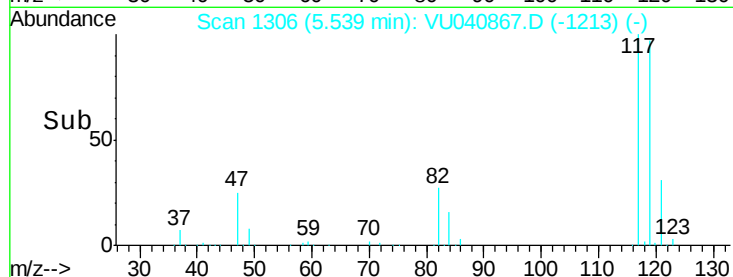
40000

20000

0

Time-->

5.45 5.50 5.55 5.60 5.65



#33

Benzene

Concen: 5.202 ug/L

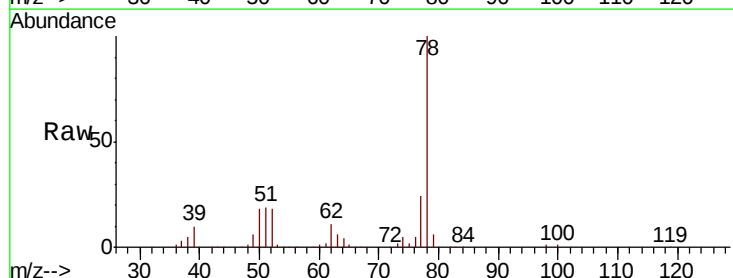
RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

Lab File: VU040867.D

Acq: 21 Oct 2020 12:14

Tgt Ion: 78 Resp: 430161



Abundance Ion 78.10 (77.80 to 78.80): VU0

250000

200000

150000

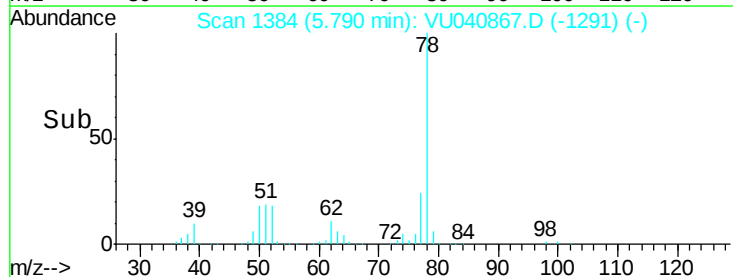
100000

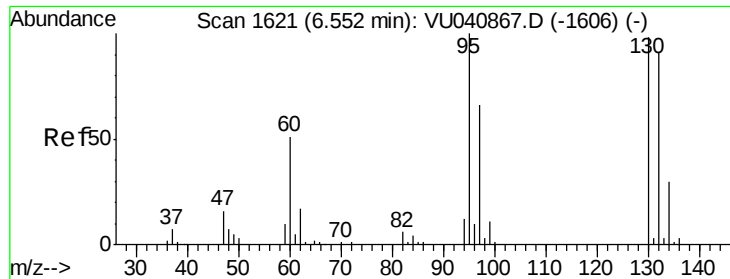
50000

0

Time-->

5.70 5.80 5.90

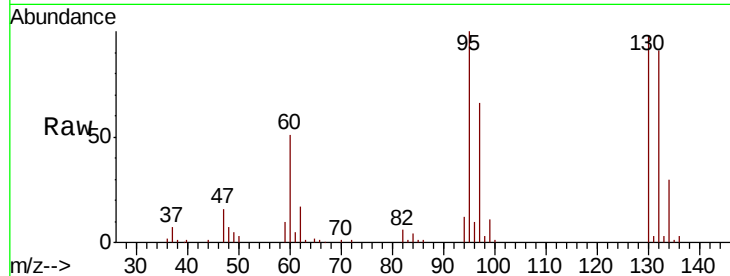




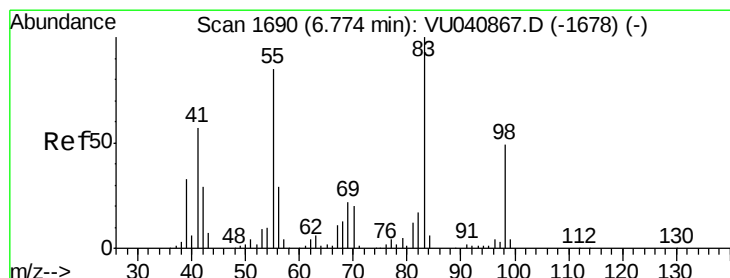
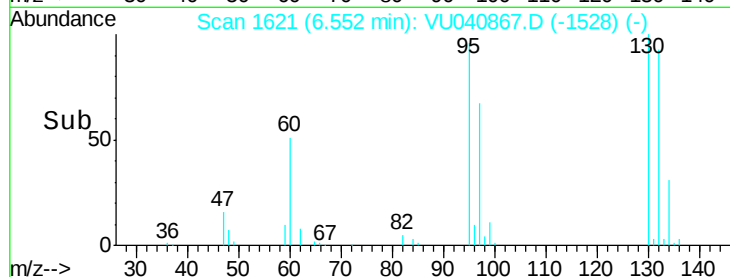
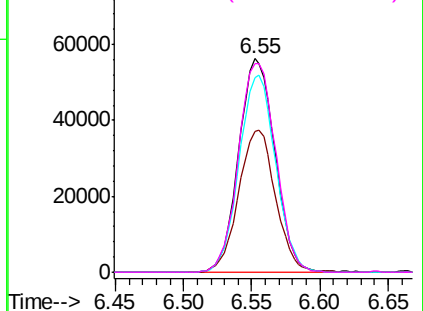
#34
 Trichloroethene
 Concen: 4.890 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. 0.00 min
 Lab File: VU040867.D
 Acq: 21 Oct 2020 12:14

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

Tot Ion: 95 Resp: 104008
 Ion Ratio Lower Upper
 95 100
 97 65.7 46.0 85.4
 132 90.9 63.6 118.2
 130 98.0 68.6 127.4

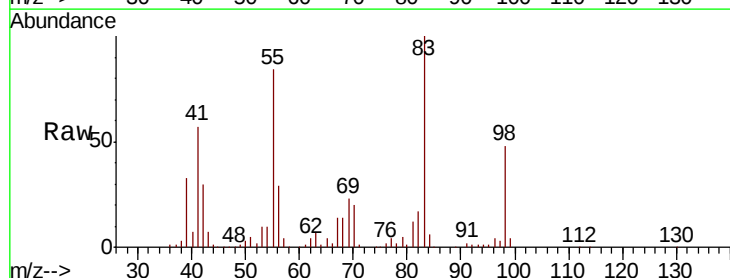


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

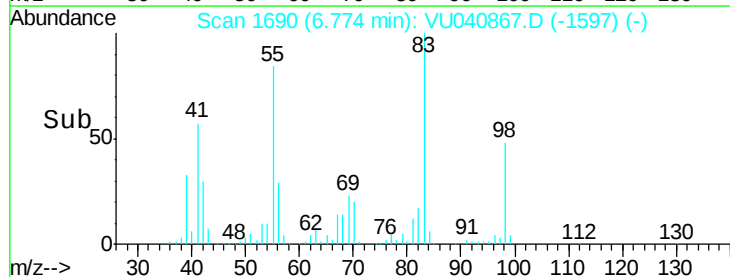
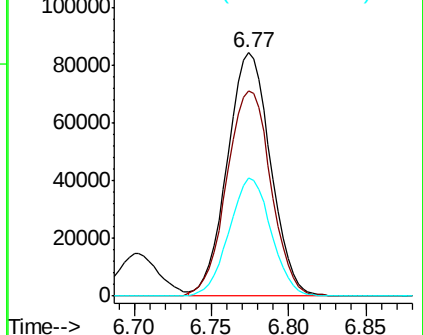


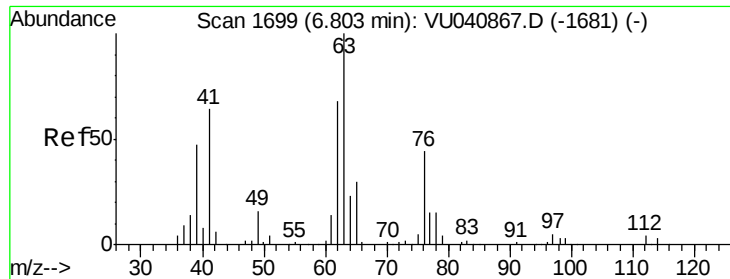
#35
 Methylcyclohexane
 Concen: 5.330 ug/L
 RT: 6.77 min Scan# 1690
 Delta R.T. 0.00 min
 Lab File: VU040867.D
 Acq: 21 Oct 2020 12:14

Tgt Ion: 83 Resp: 163223
 Ion Ratio Lower Upper
 83 100
 55 86.4 69.1 103.7
 98 47.2 37.8 56.6



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

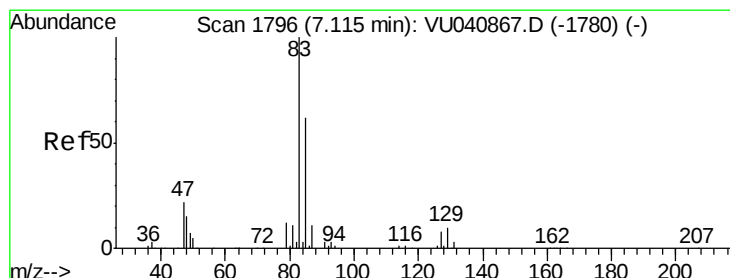
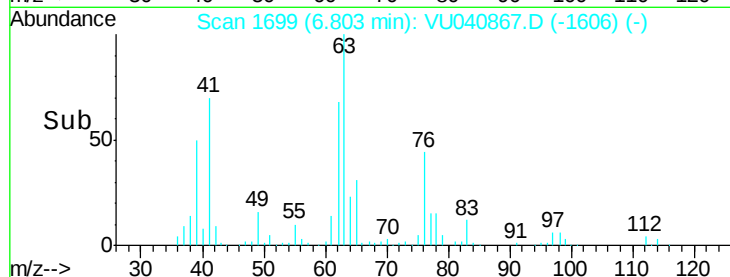
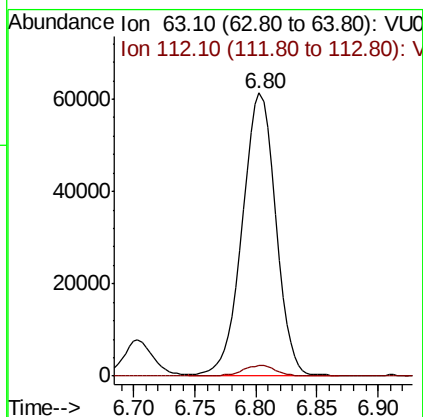
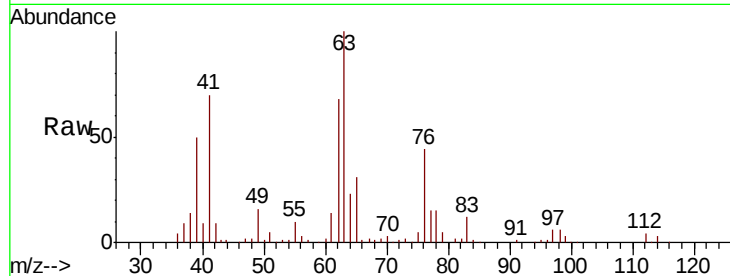




#37
 1,2-Dichloropropane
 Concen: 5.074 ug/L
 RT: 6.80 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VU040867.D
 Acq: 21 Oct 2020 12:14

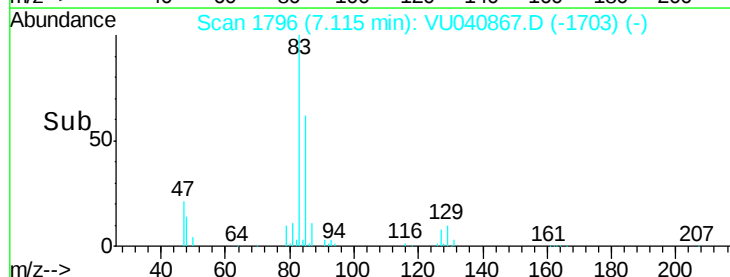
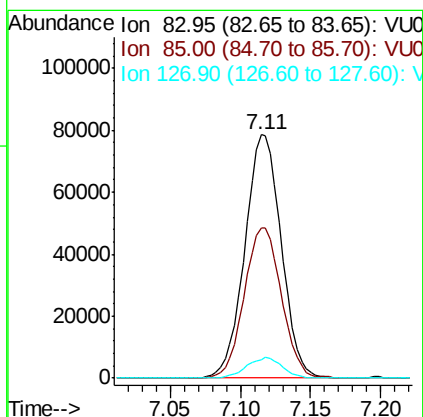
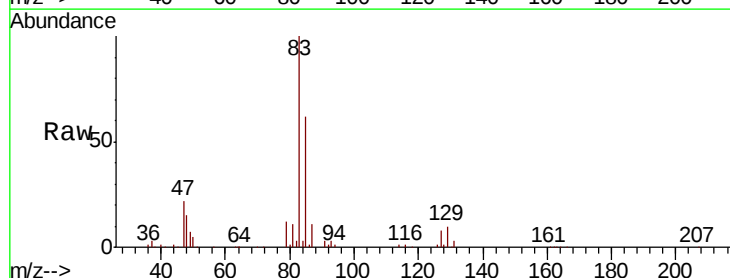
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

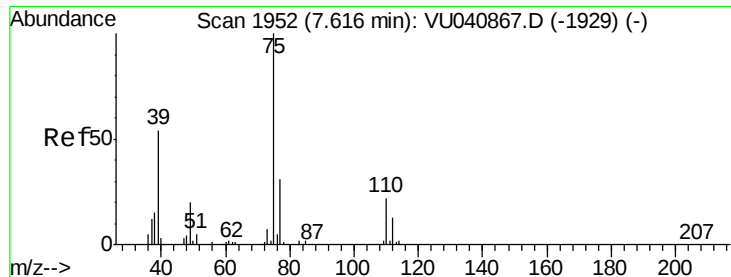
Tot Ion: 63 Resp: 115824
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.0 4.6



#38
 Bromodichloromethane
 Concen: 4.882 ug/L
 RT: 7.11 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VU040867.D
 Acq: 21 Oct 2020 12:14

Tgt Ion: 83 Resp: 142090
 Ion Ratio Lower Upper
 83 100
 85 61.9 43.3 80.5
 127 7.8 6.2 9.4

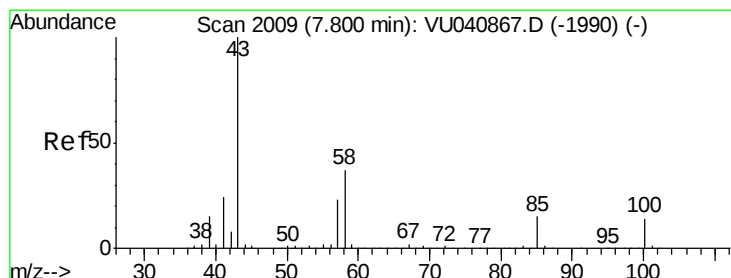
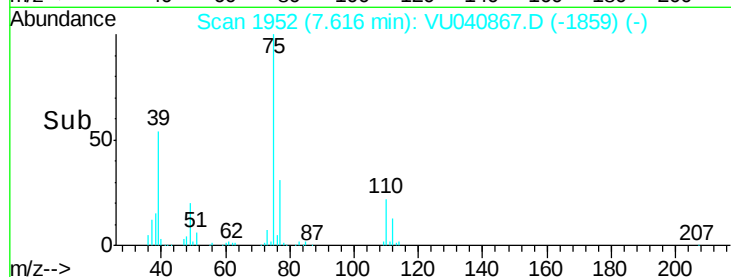
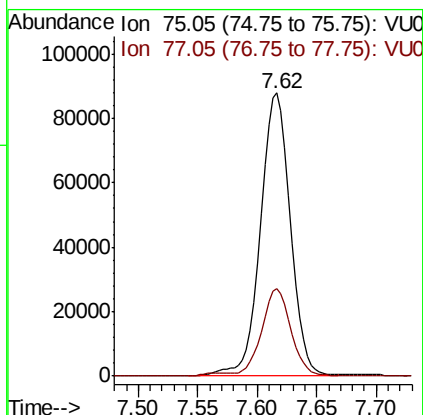
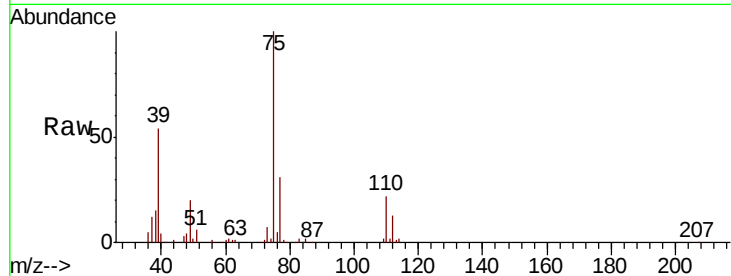




#39
 cis-1,3-Dichloropropene
 Concen: 4.930 ug/L
 RT: 7.62 min Scan# 1952
 Delta R.T. 0.00 min
 Lab File: VU040867.D
 Acq: 21 Oct 2020 12:14

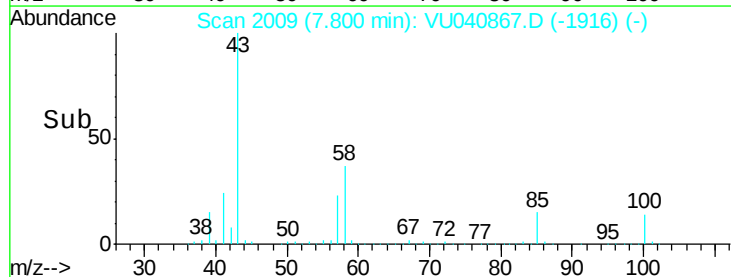
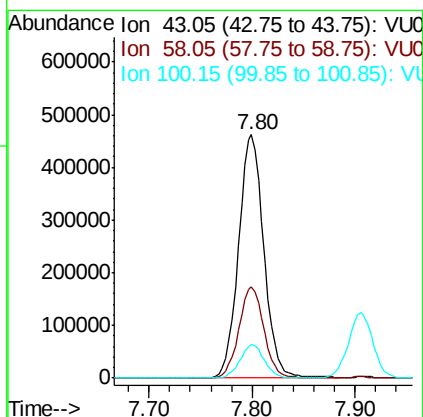
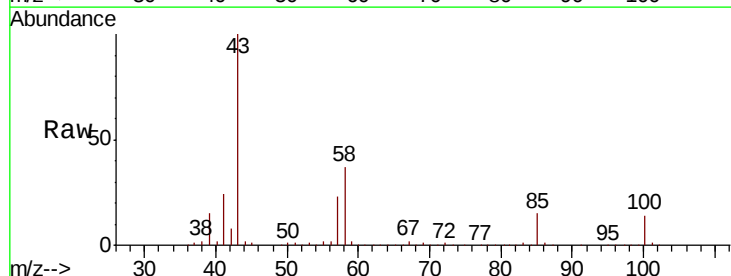
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

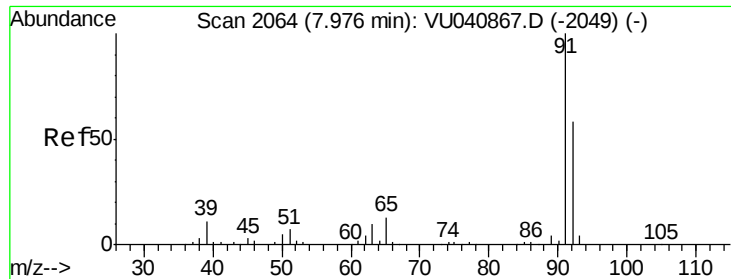
Tot Ion: 75 Resp: 153473
 Ion Ratio Lower Upper
 75 100
 77 30.9 21.6 40.2



#40
 4-Methyl-2-pentanone
 Concen: 44.814 ug/L
 RT: 7.80 min Scan# 2009
 Delta R.T. 0.00 min
 Lab File: VU040867.D
 Acq: 21 Oct 2020 12:14

Tgt Ion: 43 Resp: 788077
 Ion Ratio Lower Upper
 43 100
 58 37.1 29.7 44.5
 100 13.3 10.6 16.0





#42

Toluene

Concen: 5.278 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU040867.D

Acq: 21 Oct 2020 12:14

Instrument :

MSVOA_U

ClientSampleId :

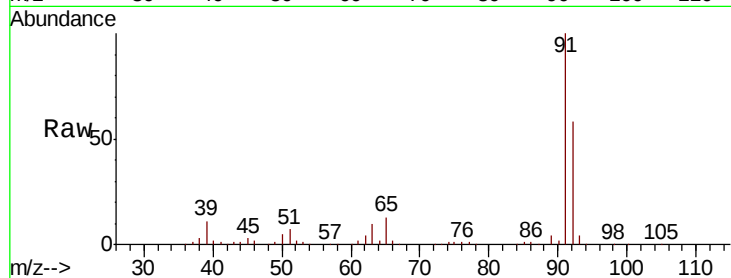
VSTD00502

Tot Ion: 91 Resp: 443302

Ion Ratio Lower Upper

91 100

92 58.0 40.6 75.4



Abundance Ion 91.15 (90.85 to 91.85): VU040867.D (-2049) (-)

Ion 92.15 (91.85 to 92.85): VU040867.D (-2049) (-)

7.98

250000

200000

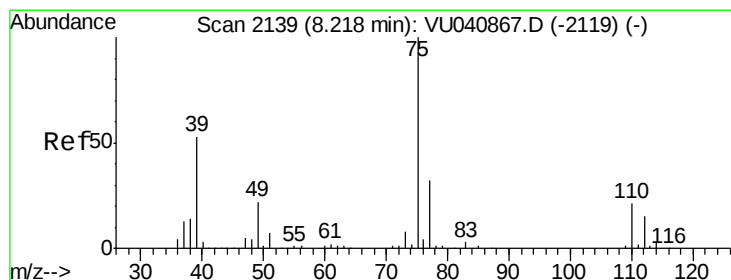
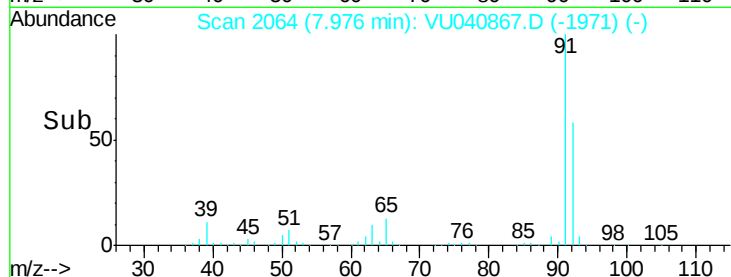
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.941 ug/L

RT: 8.22 min Scan# 2139

Delta R.T. 0.00 min

Lab File: VU040867.D

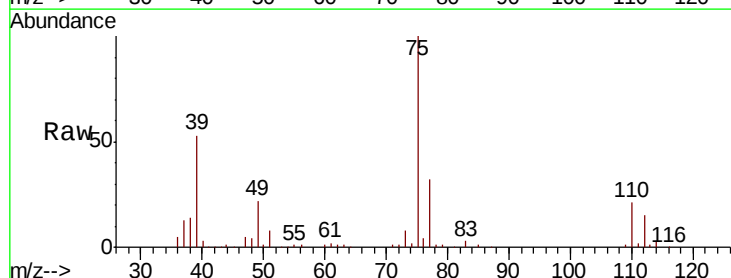
Acq: 21 Oct 2020 12:14

Tgt Ion: 75 Resp: 140621

Ion Ratio Lower Upper

75 100

77 32.3 22.6 42.0



Abundance Ion 75.05 (74.75 to 75.75): VU040867.D (-2119) (-)

Ion 77.05 (76.75 to 77.75): VU040867.D (-2119) (-)

8.22

100000

80000

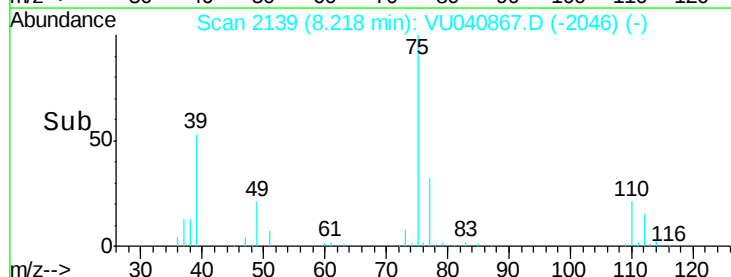
60000

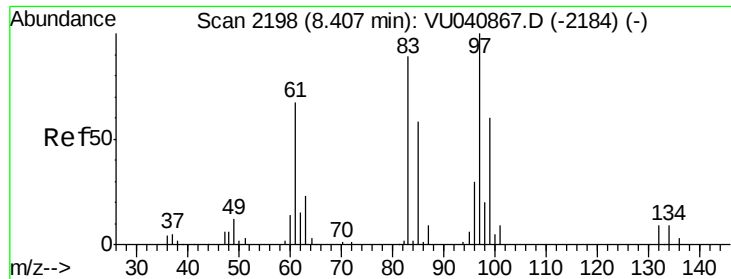
40000

20000

0

Time-->

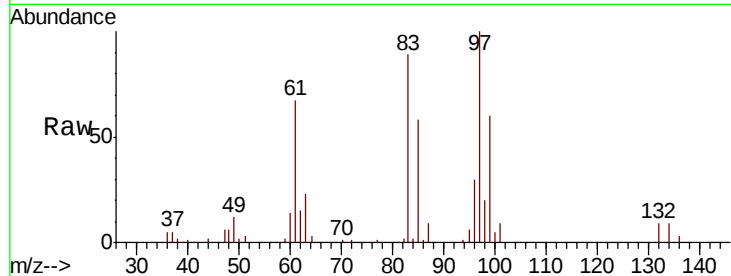




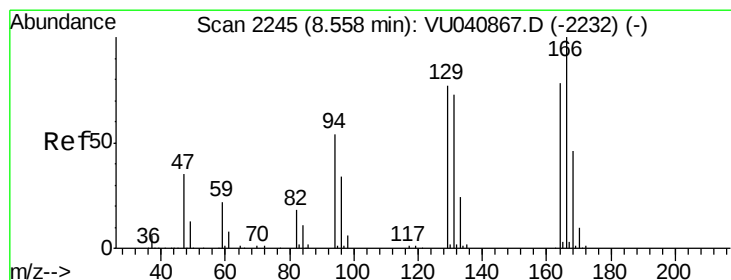
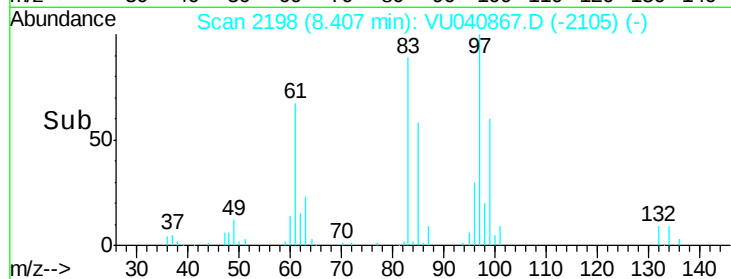
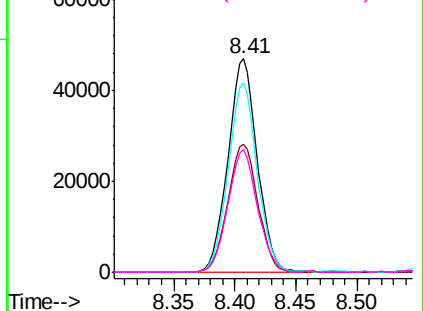
#45
 1,1,2-Trichloroethane
 Concen: 4.666 ug/L
 RT: 8.41 min Scan# 2198
 Delta R.T. 0.00 min
 Lab File: VU040867.D
 Acq: 21 Oct 2020 12:14

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

Tot Ion:	97	Resp:	78695
Ion	Ratio	Lower	Upper
97	100		
99	60.1	42.1	78.1
83	88.6	62.0	115.2
85	57.5	40.3	74.8

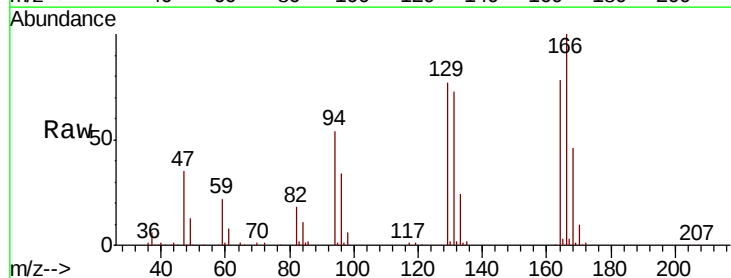


Abundance Ion 96.95 (96.65 to 97.65): VU040867.D (-2184) (-)
 Ion 99.05 (98.75 to 99.75): VU040867.D (-2184) (-)
 Ion 82.95 (82.65 to 83.65): VU040867.D (-2184) (-)
 Ion 85.00 (84.70 to 85.70): VU040867.D (-2184) (-)

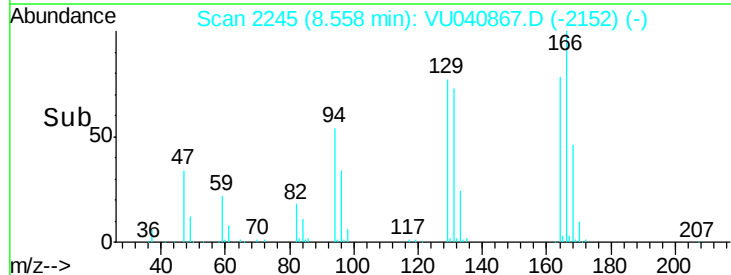
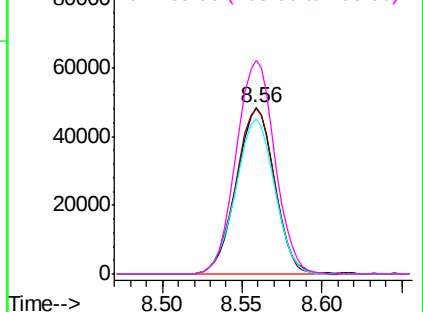


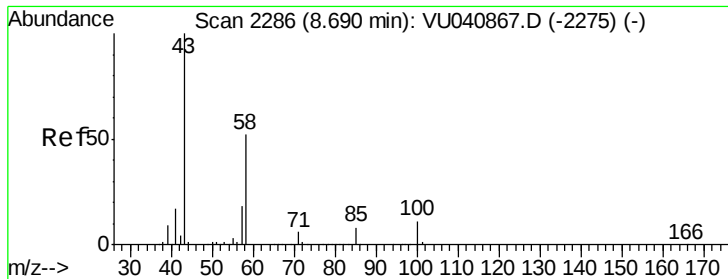
#47
 Tetrachloroethene
 Concen: 5.153 ug/L
 RT: 8.56 min Scan# 2245
 Delta R.T. 0.00 min
 Lab File: VU040867.D
 Acq: 21 Oct 2020 12:14

Tgt Ion:	164	Resp:	78297
Ion	Ratio	Lower	Upper
164	100		
129	99.5	69.7	129.4
131	93.4	65.4	121.4
166	128.6	90.0	167.2



Abundance Ion 163.90 (163.60 to 164.60): VU040867.D (-2232) (-)
 Ion 128.95 (128.65 to 129.65): VU040867.D (-2232) (-)
 Ion 130.95 (130.65 to 131.65): VU040867.D (-2232) (-)
 Ion 165.90 (165.60 to 166.60): VU040867.D (-2232) (-)

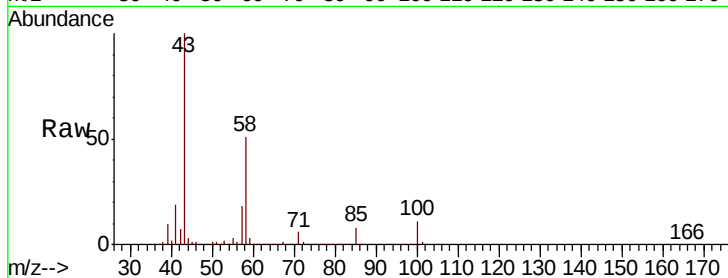




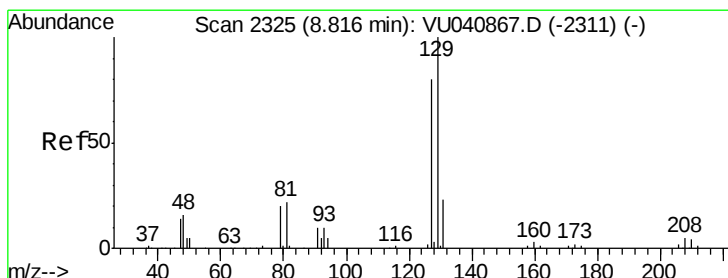
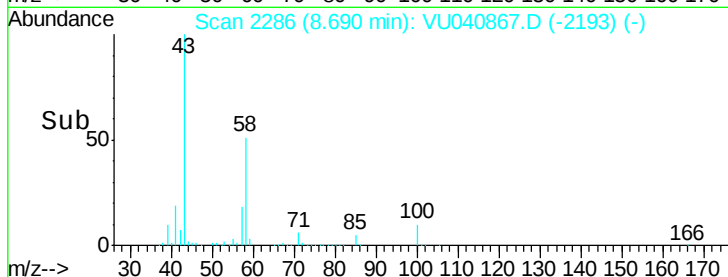
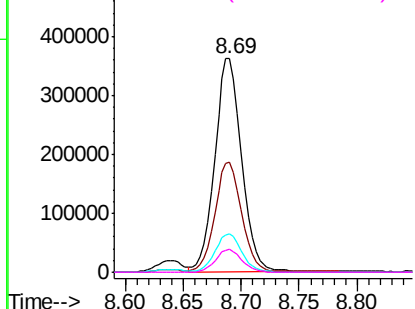
#48
2-Hexanone
Concen: 44.790 ug/L
RT: 8.69 min Scan# 2286
Delta R.T. 0.00 min
Lab File: VU040867.D
Acq: 21 Oct 2020 12:14

Instrument :
MSVOA_U
ClientSampleId :
VSTD00502

Tot Ion: 43 Resp: 584778
Ion Ratio Lower Upper
43 100
58 51.1 40.9 61.3
57 18.0 14.4 21.6
100 10.4 8.3 12.5

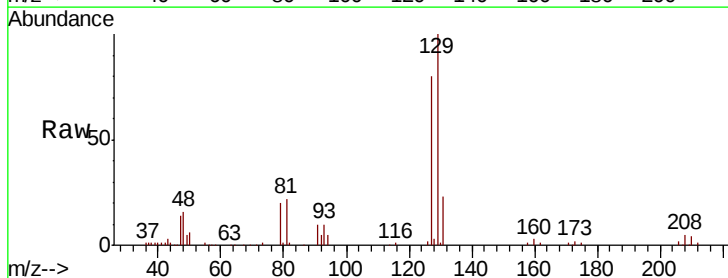


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

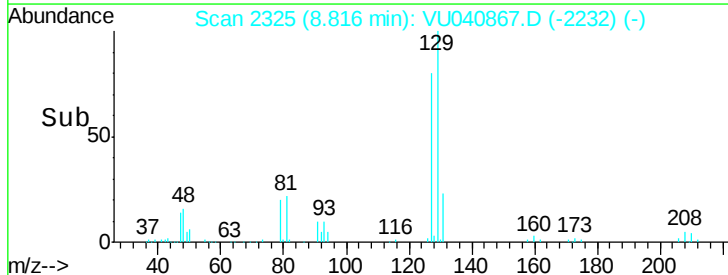
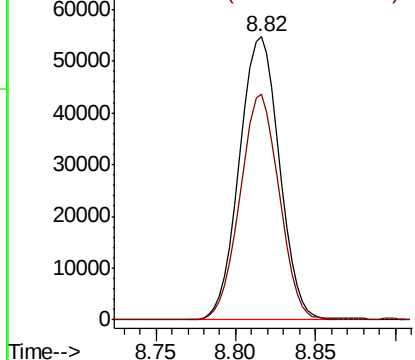


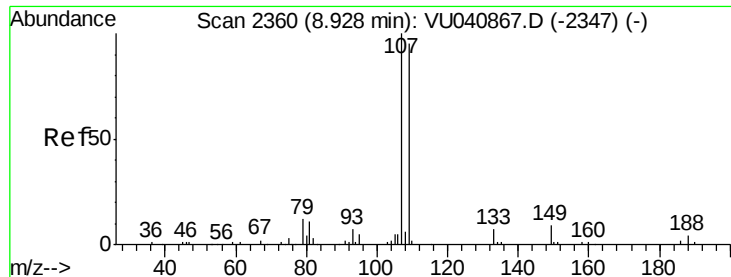
#49
Dibromochloromethane
Concen: 4.800 ug/L
RT: 8.82 min Scan# 2325
Delta R.T. 0.00 min
Lab File: VU040867.D
Acq: 21 Oct 2020 12:14

Tgt Ion: 129 Resp: 93278
Ion Ratio Lower Upper
129 100
127 79.9 55.9 103.9



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

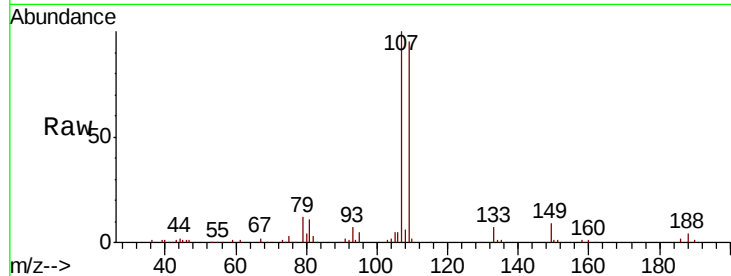




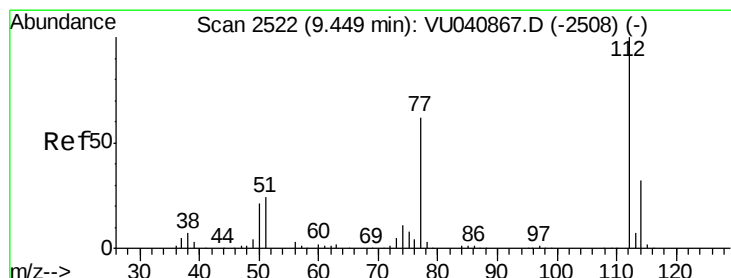
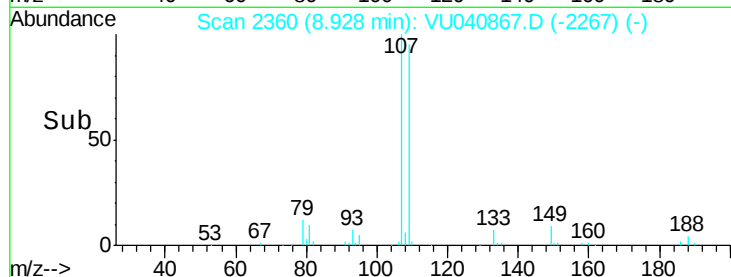
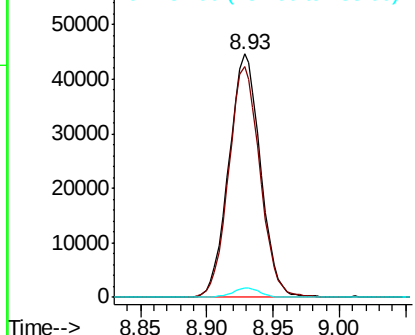
#50
 1,2-Dibromoethane
 Concen: 4.601 ug/L
 RT: 8.93 min Scan# 2360
 Delta R.T. 0.00 min
 Lab File: VU040867.D
 Acq: 21 Oct 2020 12:14

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

Tot Ion:107 Resp: 73817
 Ion Ratio Lower Upper
 107 100
 109 94.6 66.2 123.0
 188 3.9 3.1 4.7

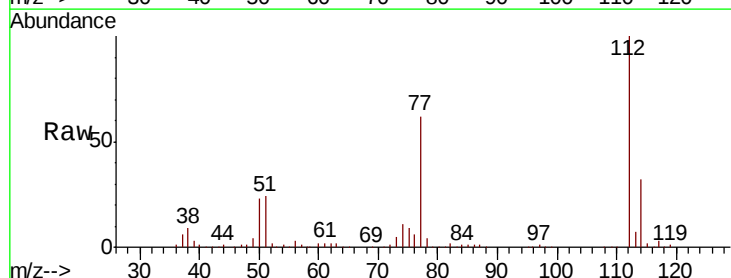


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

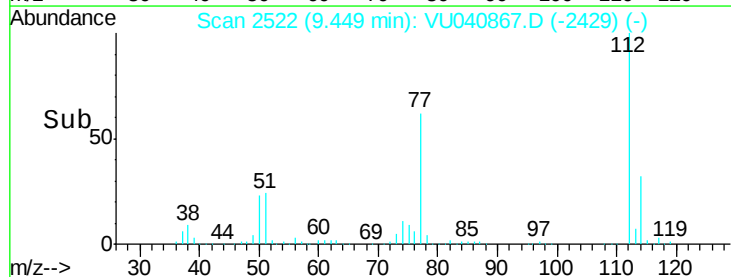
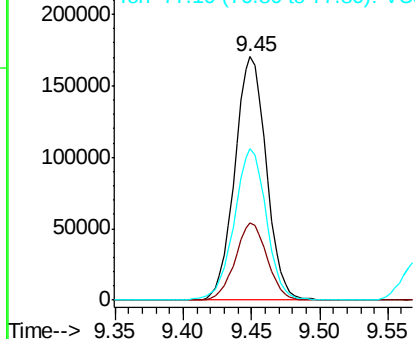


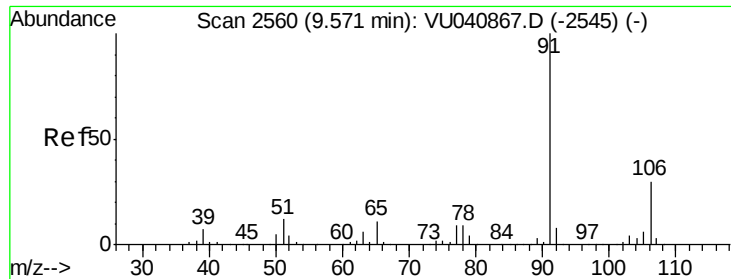
#51
 Chlorobenzene
 Concen: 4.964 ug/L
 RT: 9.45 min Scan# 2522
 Delta R.T. 0.00 min
 Lab File: VU040867.D
 Acq: 21 Oct 2020 12:14

Tgt Ion:112 Resp: 273483
 Ion Ratio Lower Upper
 112 100
 114 31.8 22.3 41.3
 77 62.2 49.8 74.6



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





#52

Ethylbenzene

Concen: 5.061 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. 0.00 min

Lab File: VU040867.D

Acq: 21 Oct 2020 12:14

Instrument :

MSVOA_U

ClientSampleId :

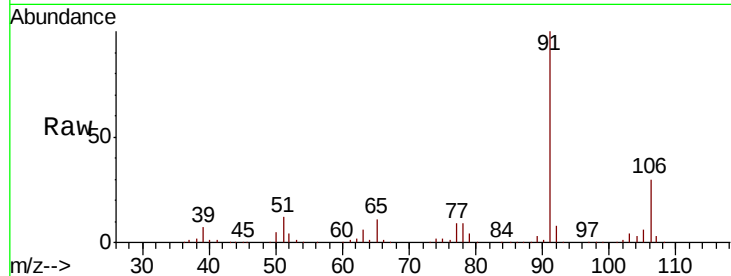
VSTD00502

Tot Ion: 91 Resp: 456898

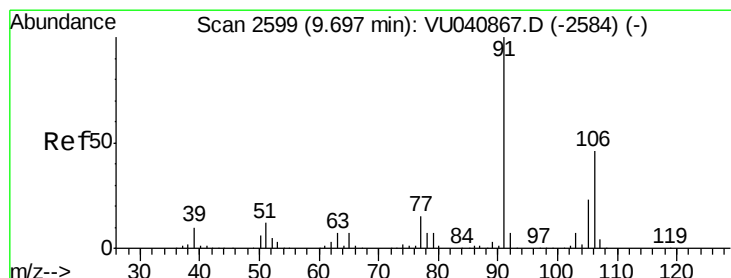
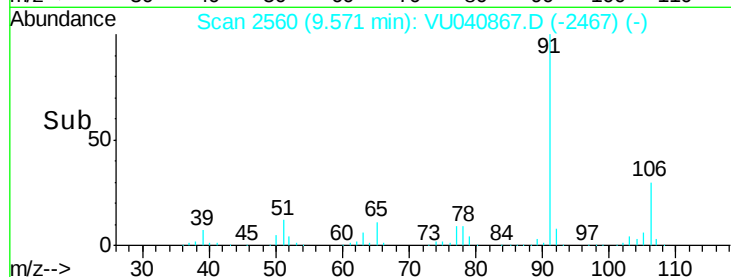
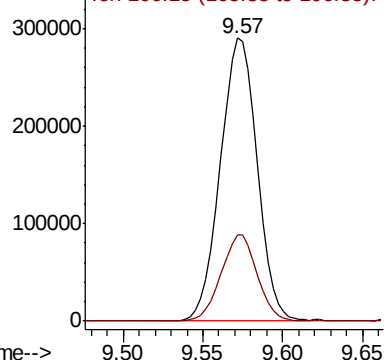
Ion Ratio Lower Upper

91 100

106 30.3 21.2 39.4



Abundance Ion 91.15 (90.85 to 91.85): VU040867.D (-2545) (-)



#53

m,p-Xylene

Concen: 5.259 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. 0.00 min

Lab File: VU040867.D

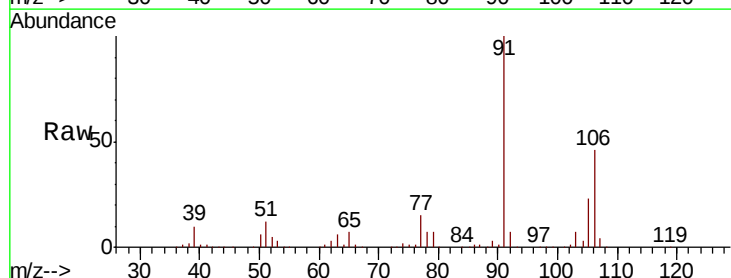
Acq: 21 Oct 2020 12:14

Tgt Ion: 106 Resp: 172699

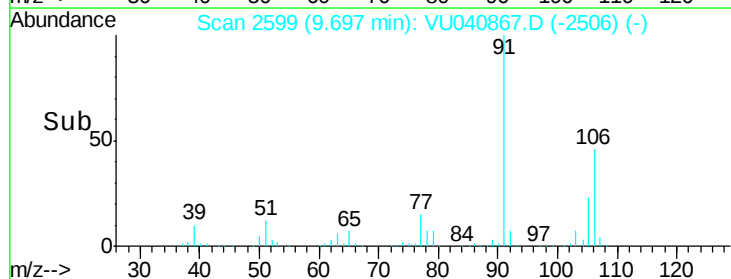
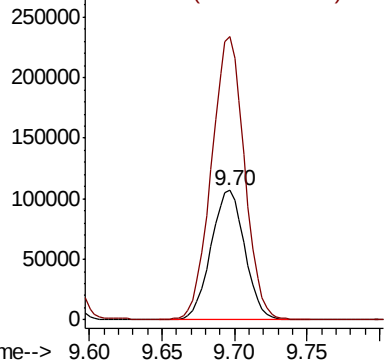
Ion Ratio Lower Upper

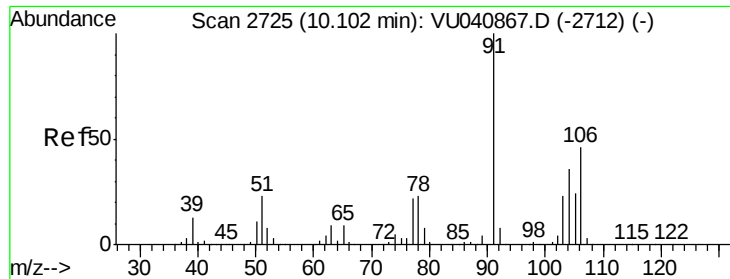
106 100

91 219.0 153.3 284.7



Abundance Ion 106.15 (105.85 to 106.85): VU040867.D (-2584) (-)

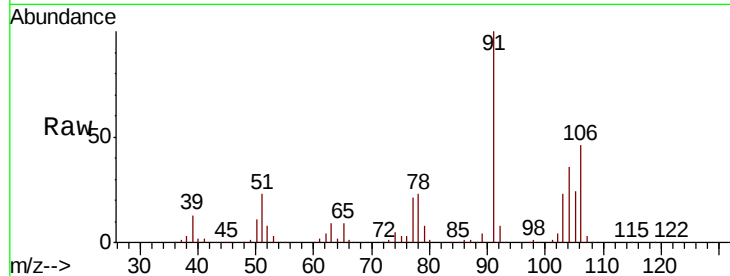




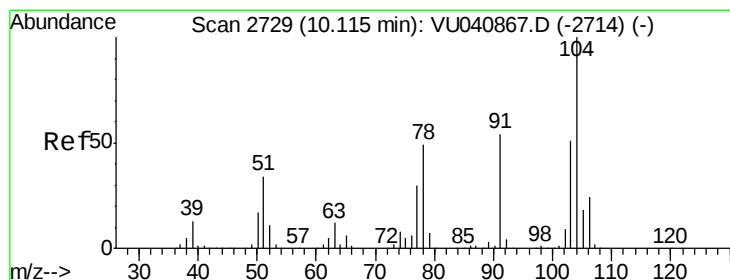
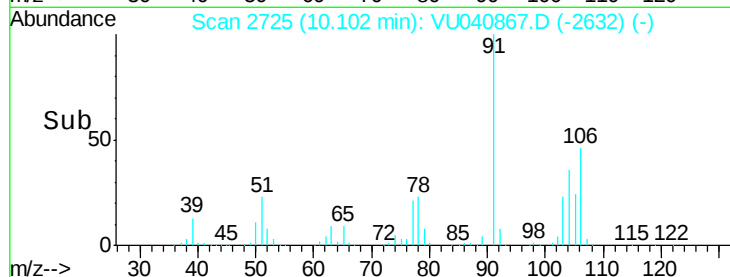
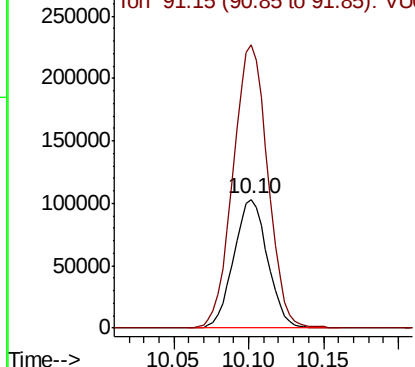
#54
o-Xylene
Concen: 5.181 ug/L
RT: 10.10 min Scan# 2725
Delta R.T. 0.00 min
Lab File: VU040867.D
Acq: 21 Oct 2020 12:14

Instrument :
MSVOA_U
ClientSampleId :
VSTD00502

Tot Ion:106 Resp: 162947
Ion Ratio Lower Upper
106 100
91 219.4 153.6 285.2

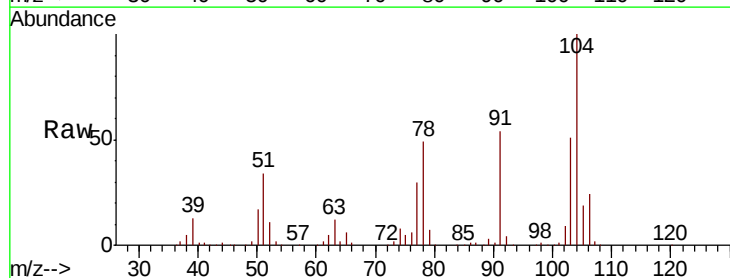


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

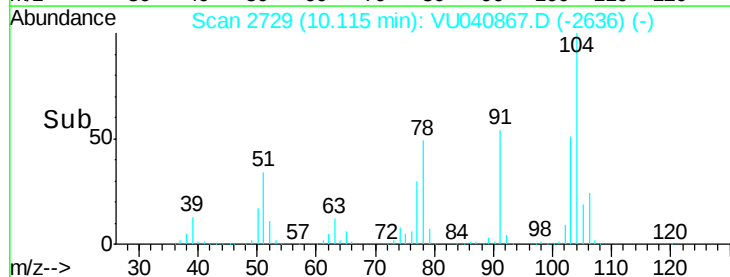
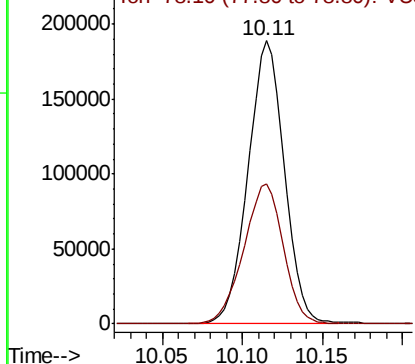


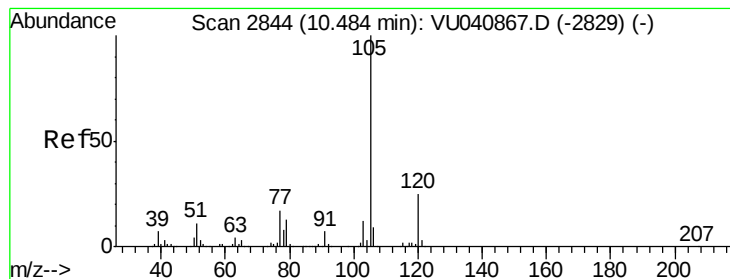
#55
Styrene
Concen: 5.341 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. 0.00 min
Lab File: VU040867.D
Acq: 21 Oct 2020 12:14

Tgt Ion:104 Resp: 293071
Ion Ratio Lower Upper
104 100
78 49.5 34.6 64.3



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 5.182 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. 0.00 min

Lab File: VU040867.D

Acq: 21 Oct 2020 12:14

Instrument :

MSVOA_U

ClientSampleId :

VSTD00502

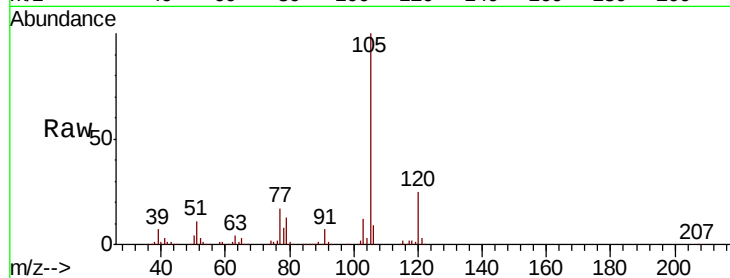
Tot Ion:105 Resp: 440315

Ion Ratio Lower Upper

105 100

120 25.3 20.2 30.4

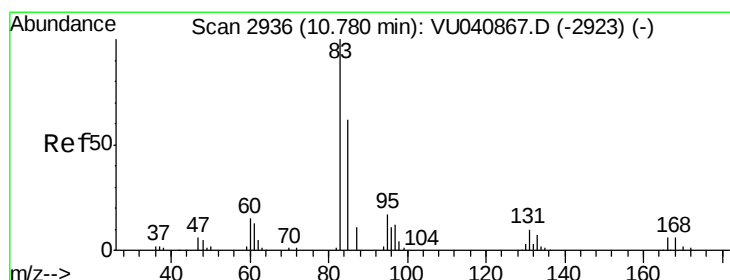
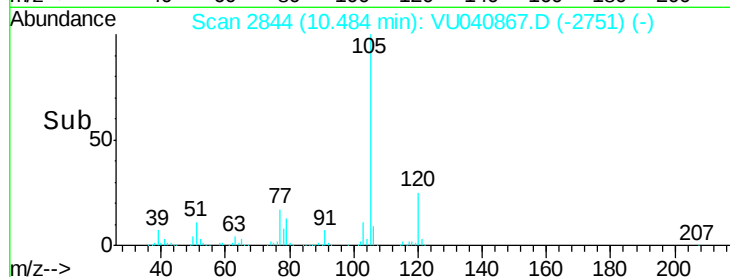
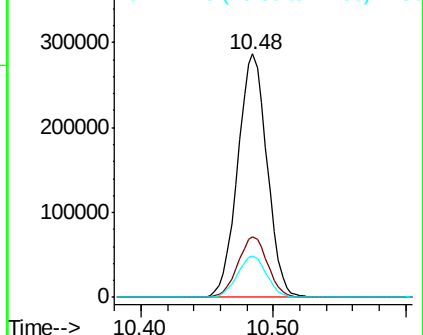
77 17.0 13.6 20.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.507 ug/L

RT: 10.78 min Scan# 2936

Delta R.T. 0.00 min

Lab File: VU040867.D

Acq: 21 Oct 2020 12:14

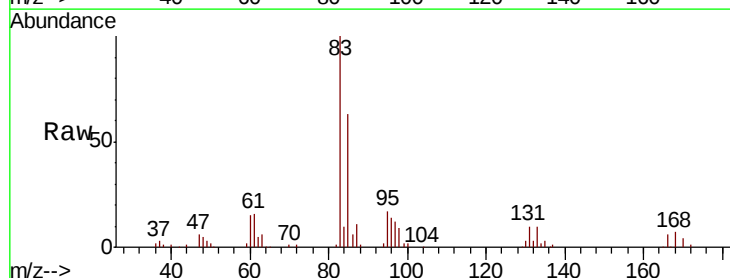
Tgt Ion: 83 Resp: 99625

Ion Ratio Lower Upper

83 100

85 63.0 44.1 81.9

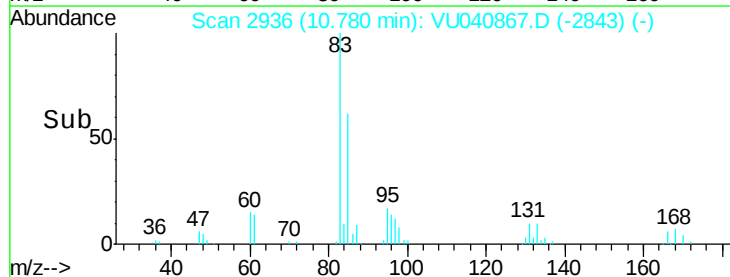
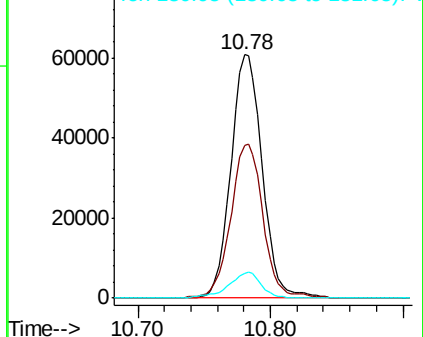
131 10.1 8.1 12.1

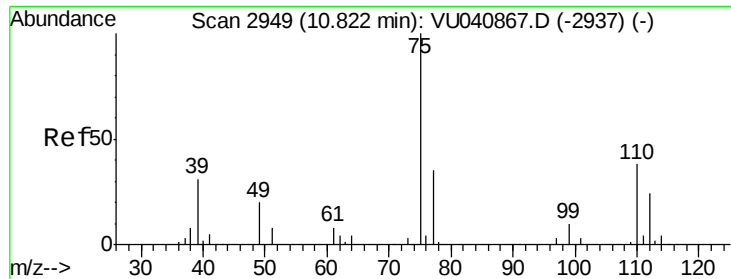


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.439 ug/L

RT: 10.82 min Scan# 2949

Delta R.T. 0.00 min

Lab File: VU040867.D

Acq: 21 Oct 2020 12:14

Instrument :

MSVOA_U

ClientSampleId :

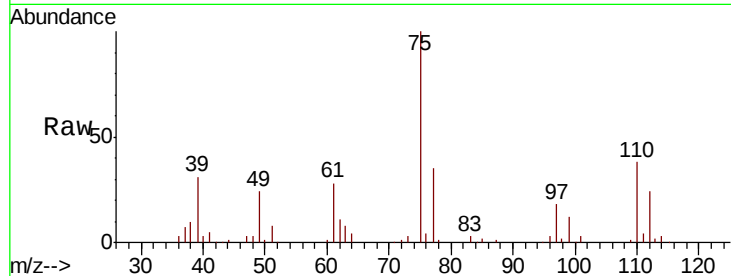
VSTD00502

Tot Ion: 75 Resp: 73162

Ion Ratio Lower Upper

75 100

77 34.4 27.5 41.3



Abundance Ion 75.00 (74.70 to 75.70): VU040867.D (-2937) (-)

Ion 77.00 (76.70 to 77.70): VU040867.D (-2937) (-)

10.82

50000

40000

30000

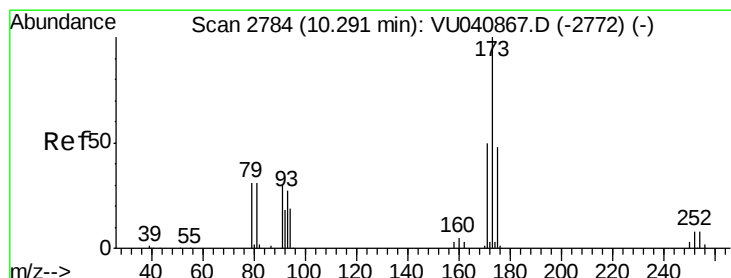
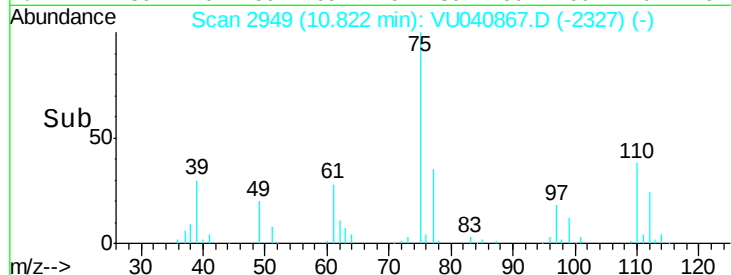
20000

10000

0

Time-->

10.75 10.80 10.85 10.90



#61

Bromoform

Concen: 4.436 ug/L

RT: 10.29 min Scan# 2784

Delta R.T. 0.00 min

Lab File: VU040867.D

Acq: 21 Oct 2020 12:14

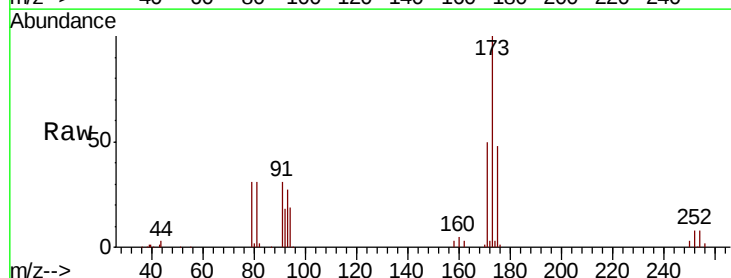
Tgt Ion: 173 Resp: 48629

Ion Ratio Lower Upper

173 100

175 48.8 39.0 58.6

254 8.6 6.9 10.3



Abundance Ion 172.90 (172.60 to 173.60): VU040867.D (-2772) (-)

Ion 174.90 (174.60 to 175.60): VU040867.D (-2772) (-)

Ion 253.75 (253.45 to 254.45): VU040867.D (-2772) (-)

10.29

40000

30000

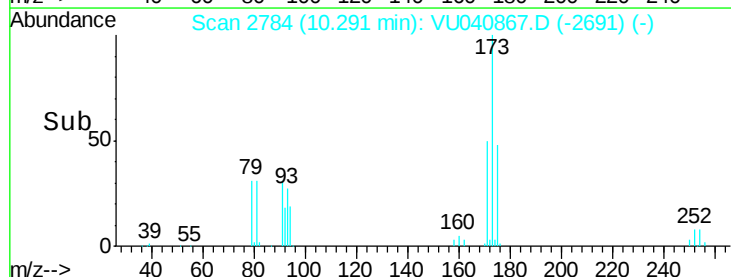
20000

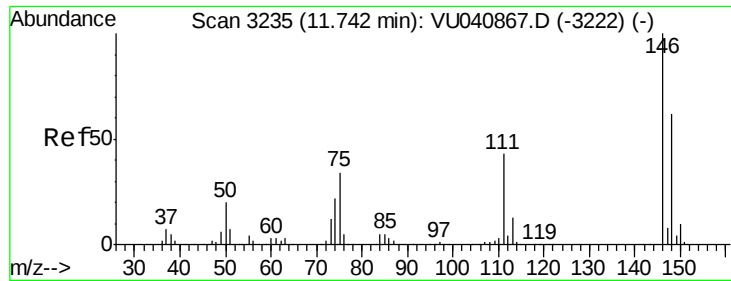
10000

0

Time-->

10.25 10.30 10.35





#62

1,3-Dichlorobenzene

Concen: 5.085 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU040867.D

Acq: 21 Oct 2020 12:14

Instrument :

MSVOA_U

ClientSampleId :

VSTD00502

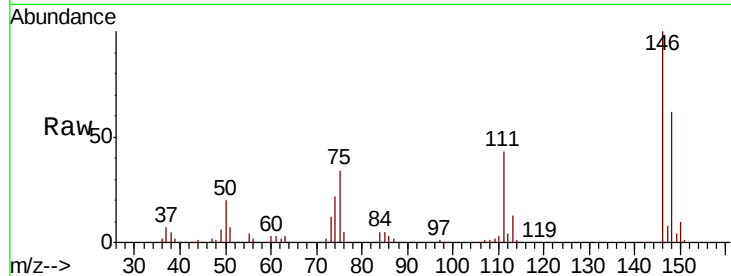
Tot Ion:146 Resp: 218933

Ion Ratio Lower Upper

146 100

111 43.2 30.2 56.2

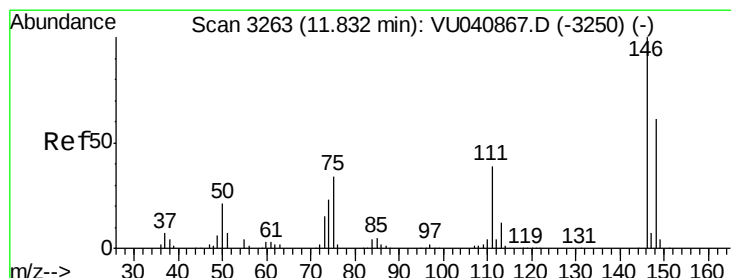
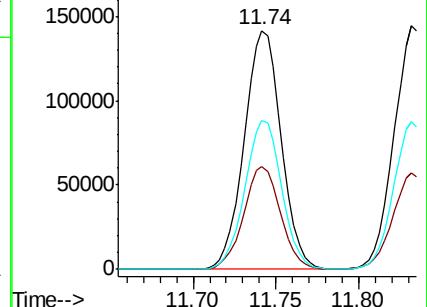
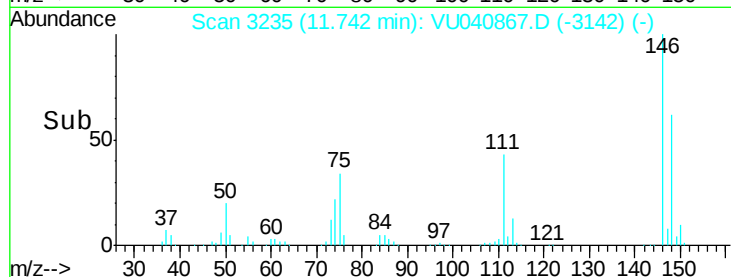
148 62.4 43.7 81.1



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: 4.991 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. 0.00 min

Lab File: VU040867.D

Acq: 21 Oct 2020 12:14

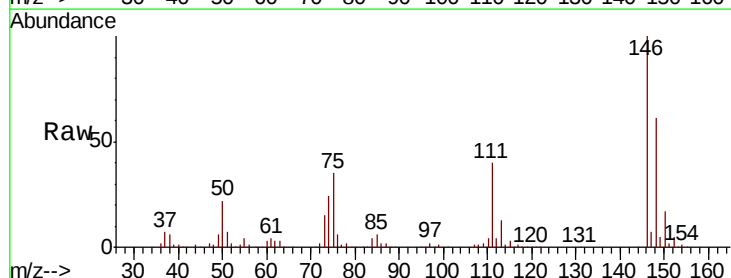
Tgt Ion:146 Resp: 221275

Ion Ratio Lower Upper

146 100

111 39.5 27.6 51.4

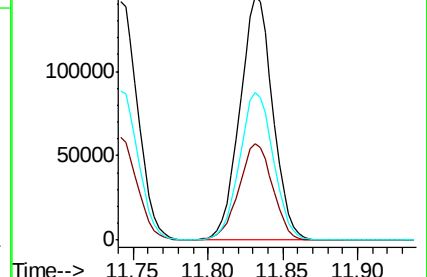
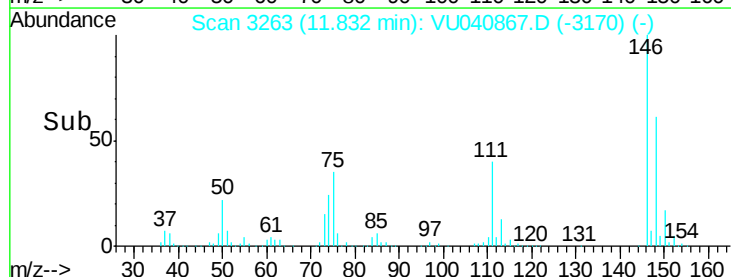
148 60.6 42.4 78.8

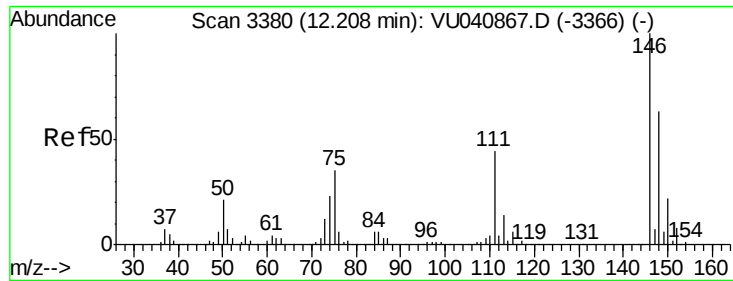


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

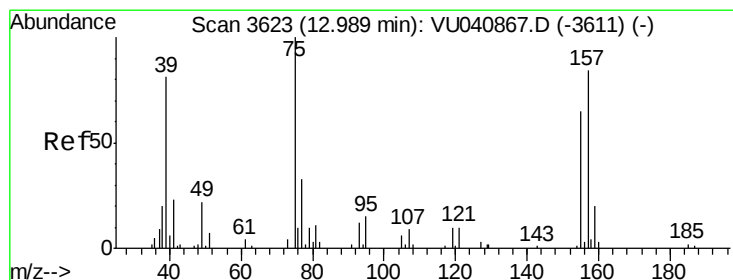
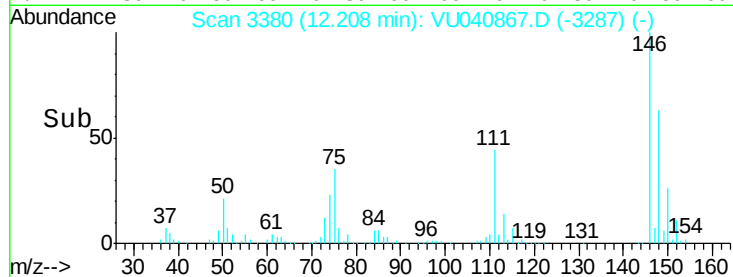
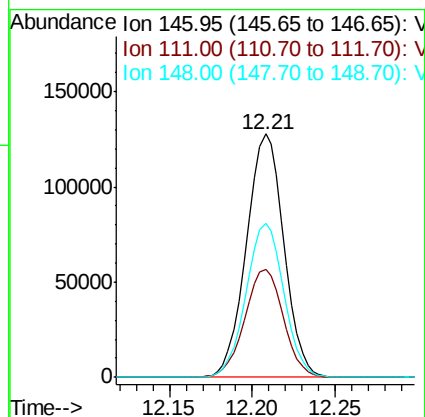
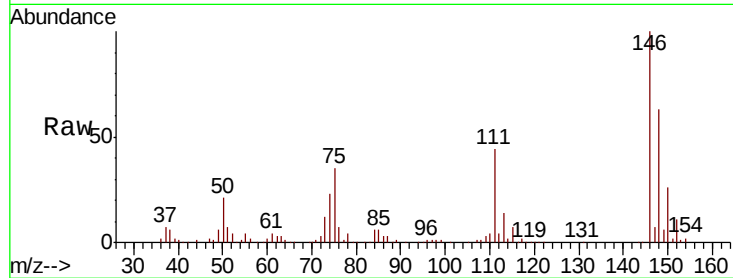




#65
 1,2-Dichlorobenzene
 Concen: 4.824 ug/L
 RT: 12.21 min Scan# 3380
 Delta R.T. 0.00 min
 Lab File: VU040867.D
 Acq: 21 Oct 2020 12:14

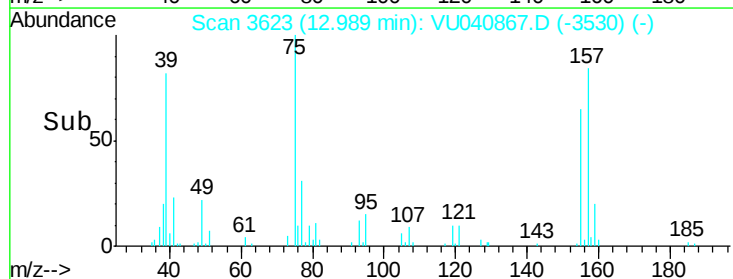
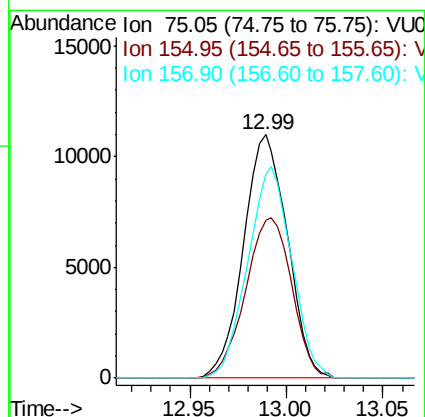
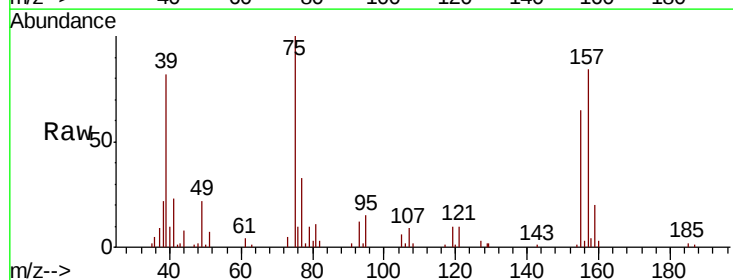
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

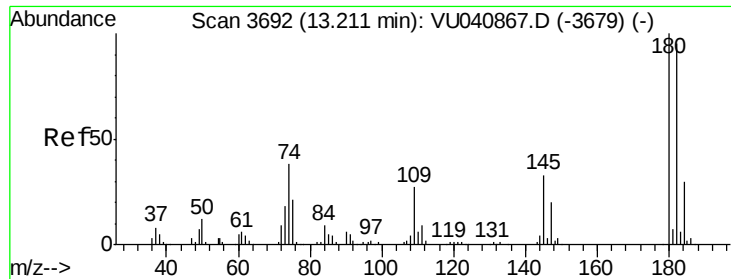
Tot Ion:146 Resp: 201276
 Ion Ratio Lower Upper
 146 100
 111 44.3 35.4 53.2
 148 63.4 50.7 76.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.749 ug/L
 RT: 12.99 min Scan# 3623
 Delta R.T. 0.00 min
 Lab File: VU040867.D
 Acq: 21 Oct 2020 12:14

Tgt Ion: 75 Resp: 17317
 Ion Ratio Lower Upper
 75 100
 155 64.6 51.7 77.5
 157 83.6 66.9 100.3

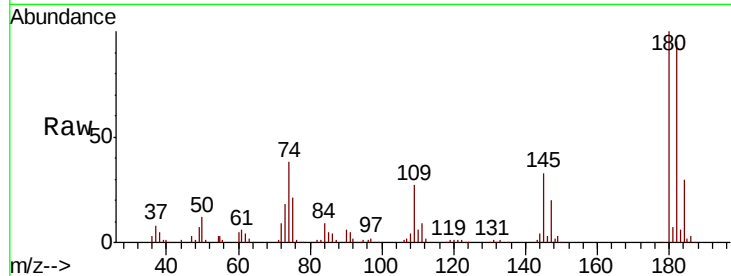




#67
 1,3,5-Trichlorobenzene
 Concen: 4.896 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. 0.00 min
 Lab File: VU040867.D
 Acq: 21 Oct 2020 12:14

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.0	77.6	116.4
184	30.9	24.7	37.1
145	32.4	25.9	38.9

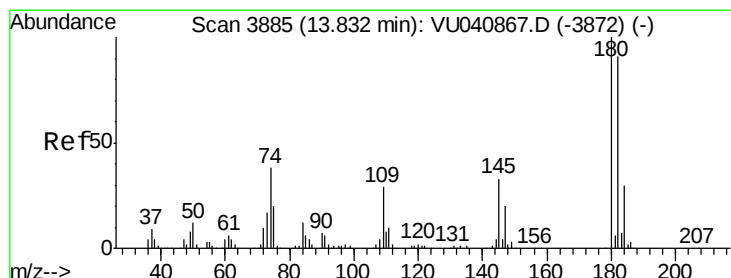
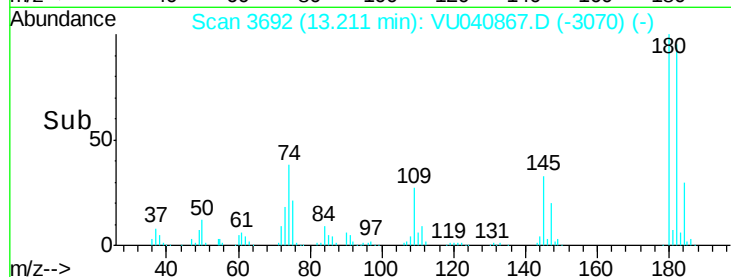
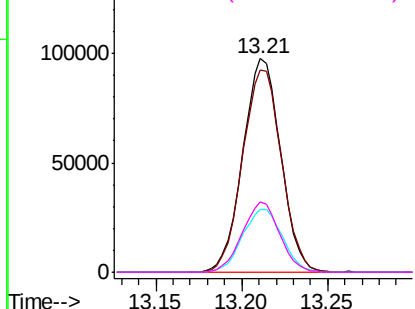


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

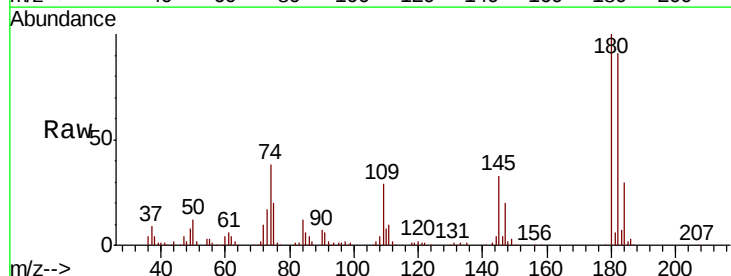
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 5.301 ug/L
 RT: 13.83 min Scan# 3885
 Delta R.T. 0.00 min
 Lab File: VU040867.D
 Acq: 21 Oct 2020 12:14

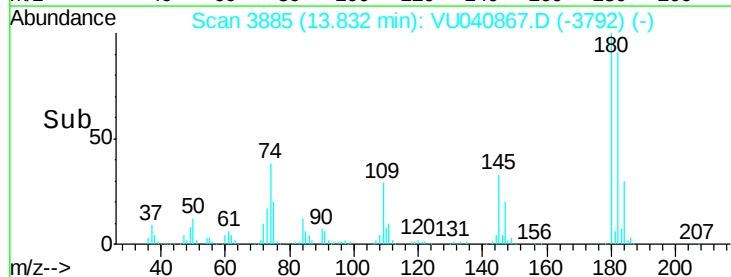
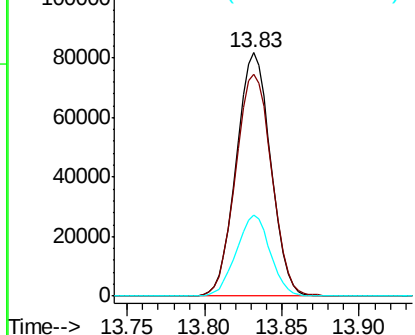
Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.4	114.6
145	32.7	26.2	39.2

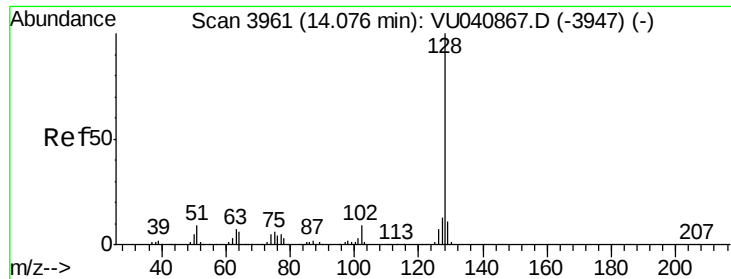


Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 5.815 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. 0.00 min

Lab File: VU040867.D

Acq: 21 Oct 2020 12:14

Instrument :

MSVOA_U

ClientSampleId :

VSTD00502

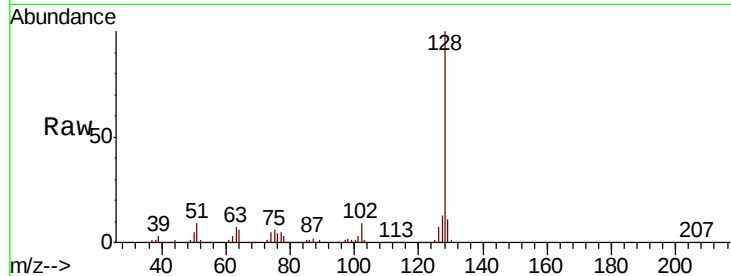
Tot Ion:128 Resp: 231942

Ion Ratio Lower Upper

128 100

129 11.1 8.9 13.3

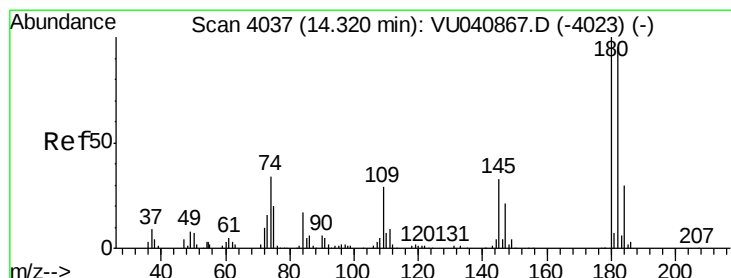
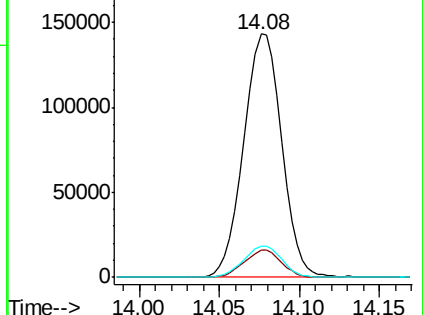
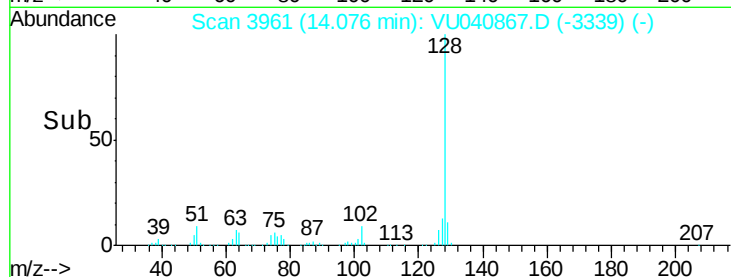
127 12.9 10.3 15.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.564 ug/L

RT: 14.32 min Scan# 4037

Delta R.T. 0.00 min

Lab File: VU040867.D

Acq: 21 Oct 2020 12:14

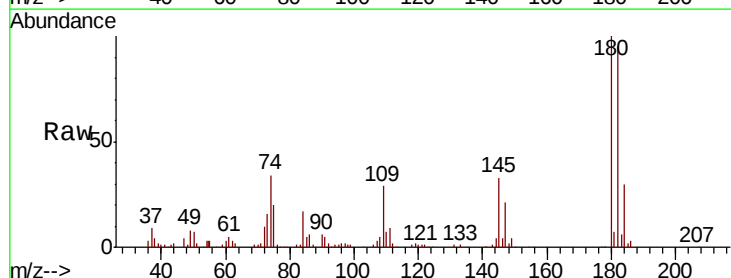
Tgt Ion:180 Resp: 123299

Ion Ratio Lower Upper

180 100

182 94.7 75.8 113.6

145 35.2 28.2 42.2



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

