

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091720\
 Data File : VU040197.D
 Acq On : 17 Sep 2020 21:26
 Operator : SY/MD
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

Quant Time: Sep 18 04:05:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR083120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Sep 18 04:01:22 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	116210	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	110964	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	56469	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	28184	4.44	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.80%
7) Chloroethane-d5	1.92	69	25288	4.78	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	95.60%
11) 1,1-Dichloroethene-d2	2.58	63	73909	4.54	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	90.80%
20) 2-Butanone-d5	4.66	46	111914	44.10	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	88.20%
24) Chloroform-d	5.08	84	64170	4.33	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.60%
26) 1,2-Dichloroethane-d4	5.72	65	40406	4.42	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.40%
32) Benzene-d6	5.75	84	122635	4.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.60%
36) 1,2-Dichloropropane-d6	6.70	67	39320	4.60	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	92.00%
41) Toluene-d8	7.91	98	105858	4.52	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.40%
43) trans-1,3-Dichloropropene-	8.19	79	16024	4.08	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	81.60%
46) 2-Hexanone-d5	8.64	63	82665	44.49	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	88.98%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	35680	4.83	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.60%
64) 1,2-Dichlorobenzene-d4	12.19	152	40251	4.40	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	55992	4.855	ug/L	99
3) Chloromethane	1.53	50	50186	4.545	ug/L	98
5) Vinyl chloride	1.61	62	53073	4.741	ug/L	93
6) Bromomethane	1.87	94	28155	4.921	ug/L	91
8) Chloroethane	1.94	64	31842	4.733	ug/L	95
9) Trichlorofluoromethane	2.15	101	81127	5.059	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	52922	5.092	ug/L	97
12) 1,1-Dichloroethene	2.59	96	47683	5.302	ug/L	88
13) Acetone	2.66	43	105463	44.890	ug/L	98
14) Carbon disulfide	2.81	76	131928	4.575	ug/L	98
15) Methyl Acetate	2.97	43	26370	4.472	ug/L	100
16) Methylene chloride	3.06	84	60703	5.154	ug/L	94
17) Methyl tert-butyl Ether	3.38	73	128537	4.742	ug/L	99
18) trans-1,2-Dichloroethene	3.37	96	47976	4.959	ug/L	97
19) 1,1-Dichloroethane	3.89	63	99233	4.983	ug/L	97
21) 2-Butanone	4.74	43	171203	44.636	ug/L	99
22) cis-1,2-Dichloroethene	4.69	96	54950	5.282	ug/L	100

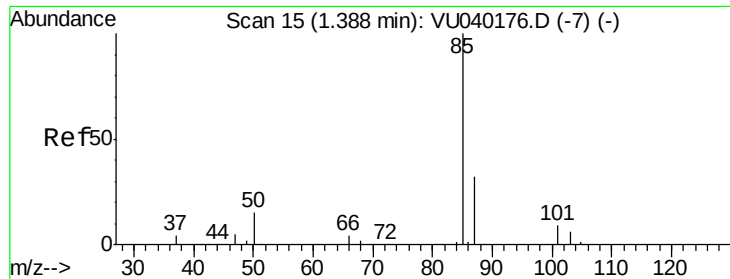
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091720\
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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Sep 18 04:01:22 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.99	128	24224	5.315	ug/L	98
25) Chloroform	5.11	83	111129	5.449	ug/L	100
27) 1,2-Dichloroethane	5.81	62	74905	5.013	ug/L	98
29) 1,1,1-Trichloroethane	5.34	97	90680	5.205	ug/L	100
30) Cyclohexane	5.41	56	79020	4.677	ug/L	97
31) Carbon tetrachloride	5.54	117	76686	5.143	ug/L	98
33) Benzene	5.79	78	207541	5.228	ug/L	100
34) Trichloroethene	6.56	95	54658	5.133	ug/L	96
35) Methylcyclohexane	6.77	83	76322	4.681	ug/L	99
37) 1,2-Dichloropropane	6.80	63	57742	5.372	ug/L	100
38) Bromodichloromethane	7.11	83	76020	5.181	ug/L	100
39) cis-1,3-Dichloropropene	7.62	75	73963	4.666	ug/L	99
40) 4-Methyl-2-pentanone	7.80	43	408220	46.287	ug/L	98
42) Toluene	7.98	91	218774	5.351	ug/L	100
44) trans-1,3-Dichloropropene	8.22	75	70105	4.773	ug/L	96
45) 1,1,2-Trichloroethane	8.41	97	41021	5.239	ug/L	98
47) Tetrachloroethene	8.56	164	38036	5.438	ug/L	98
48) 2-Hexanone	8.69	43	302372	47.002	ug/L	98
49) Dibromochloromethane	8.82	129	47598	5.064	ug/L	98
50) 1,2-Dibromoethane	8.93	107	38032	5.038	ug/L	98
51) Chlorobenzene	9.45	112	138726	5.466	ug/L	96
52) Ethylbenzene	9.57	91	240449	5.177	ug/L	98
53) m,p-Xylene	9.69	106	89329	5.402	ug/L	92
54) o-Xylene	10.10	106	85208	5.407	ug/L	100
55) Styrene	10.11	104	151195	5.517	ug/L	98
56) Isopropylbenzene	10.48	105	231625	5.389	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.78	83	49841	4.964	ug/L	96
59) 1,2,3-Trichloropropane	10.82	75	37812	4.748	ug/L	98
61) Bromoform	10.29	173	24187	4.670	ug/L	98
62) 1,3-Dichlorobenzene	11.74	146	107939	5.230	ug/L	96
63) 1,4-Dichlorobenzene	11.83	146	105045	5.030	ug/L	99
65) 1,2-Dichlorobenzene	12.21	146	103155	5.165	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.99	75	9239	4.326	ug/L	88
67) 1,3,5-Trichlorobenzene	13.21	180	70931	4.888	ug/L	99
68) 1,2,4-trichlorobenzene	13.83	180	58667	4.693	ug/L	100
69) Naphthalene	14.08	128	105296	4.041	ug/L	99
70) 1,2,3-Trichlorobenzene	14.32	180	55658	4.847	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 4.855 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU040197.D

Acq: 17 Sep 2020 21:26

Instrument :

MSVOA_U

ClientSampleId :

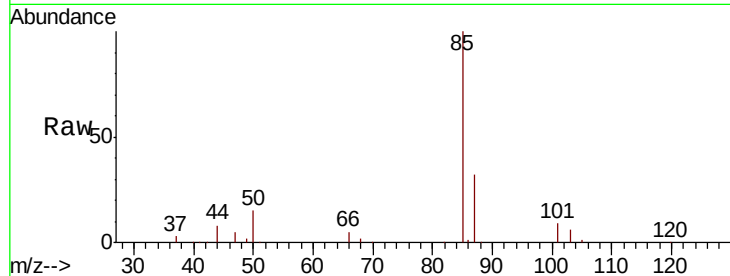
VSTD00512

Tot Ion: 85 Resp: 55992

Ion Ratio Lower Upper

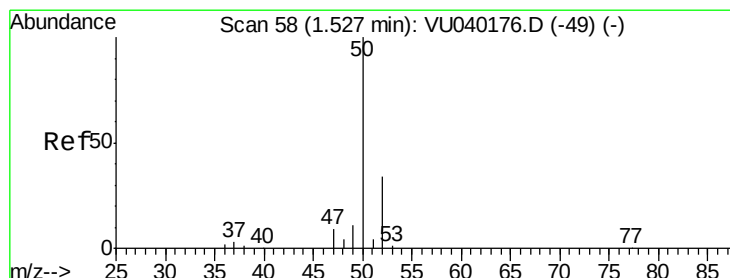
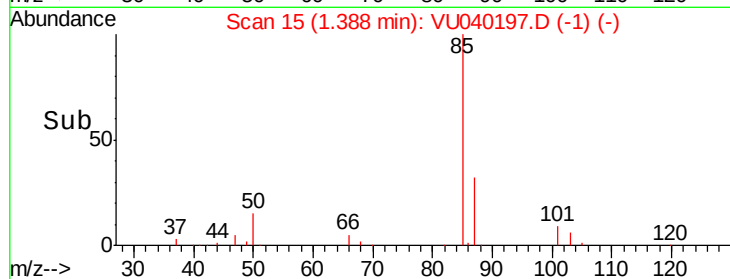
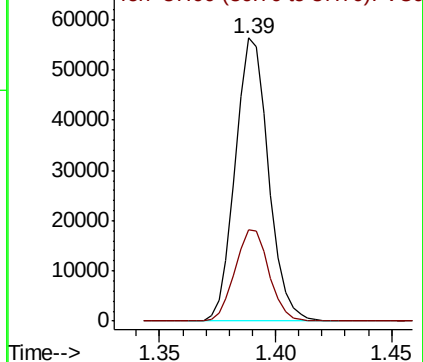
85 100

87 32.8 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 4.545 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU040197.D

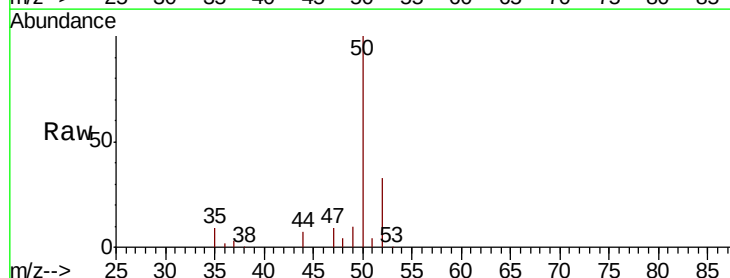
Acq: 17 Sep 2020 21:26

Tgt Ion: 50 Resp: 50186

Ion Ratio Lower Upper

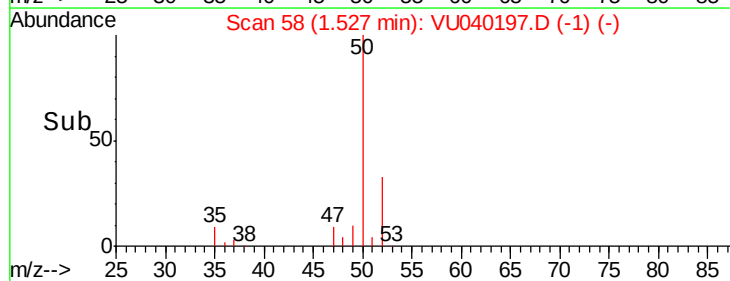
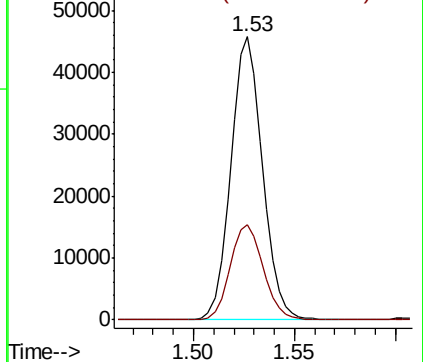
50 100

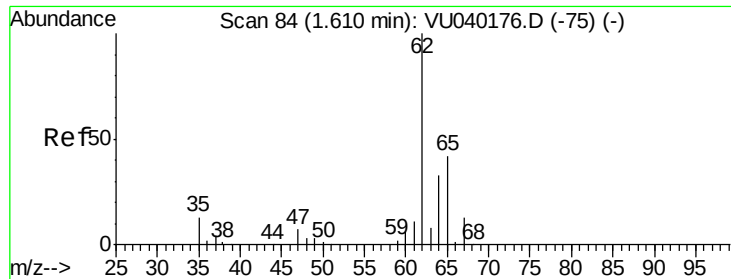
52 33.5 22.8 42.4



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 4.741 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU040197.D

Acq: 17 Sep 2020 21:26

Instrument :

MSVOA_U

ClientSampleId :

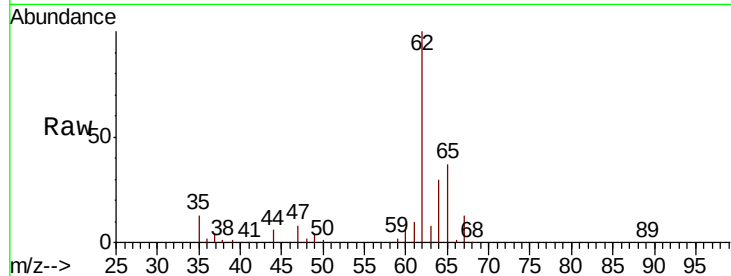
VSTD00512

Tot Ion: 62 Resp: 53073

Ion Ratio Lower Upper

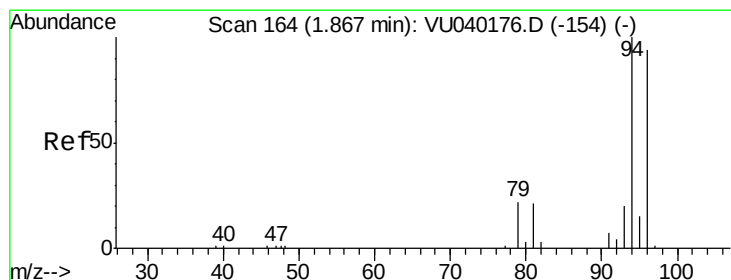
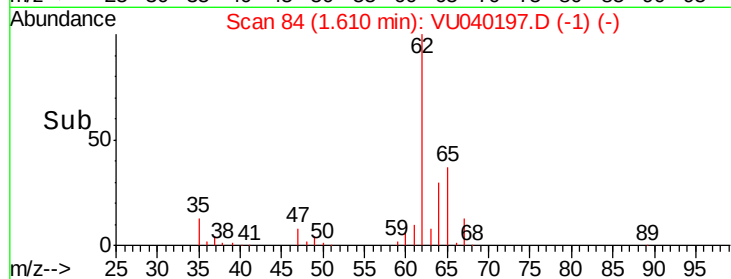
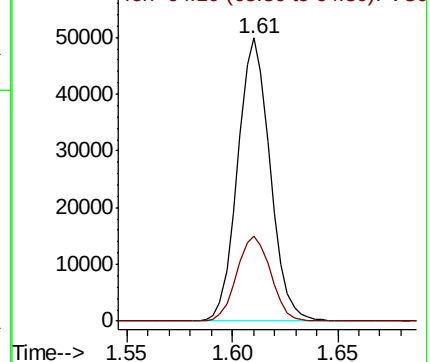
62 100

64 29.9 23.9 44.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 4.921 ug/L

RT: 1.87 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU040197.D

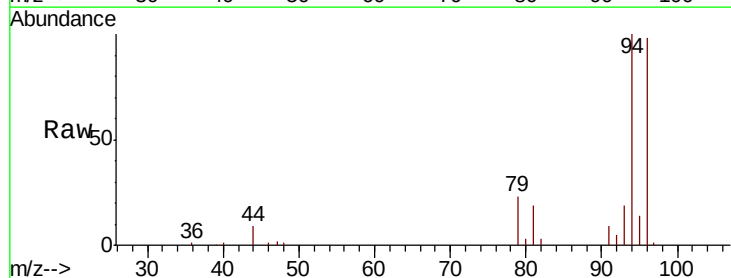
Acq: 17 Sep 2020 21:26

Tgt Ion: 94 Resp: 28155

Ion Ratio Lower Upper

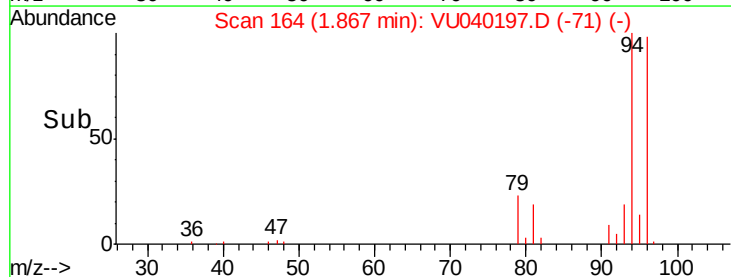
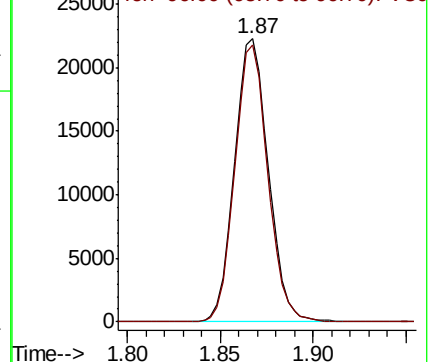
94 100

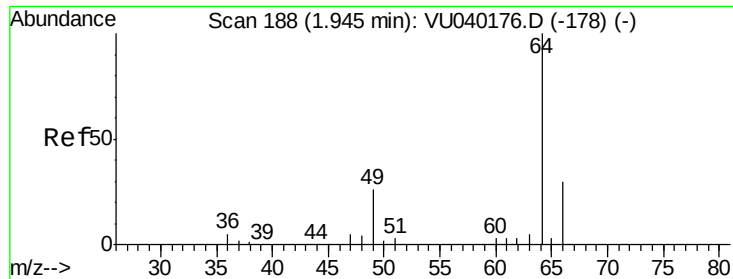
96 97.8 62.3 115.7



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

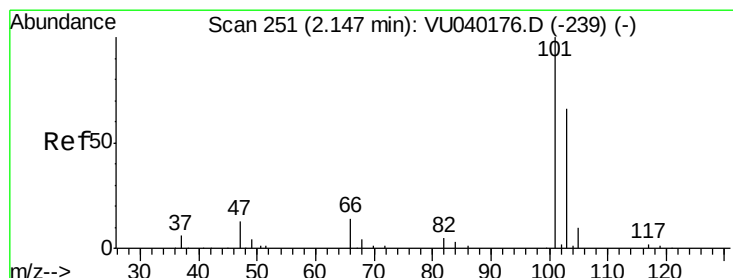
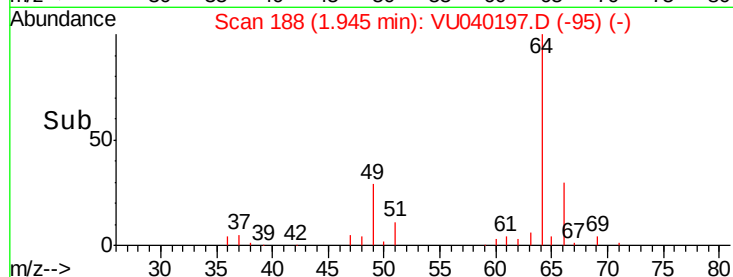
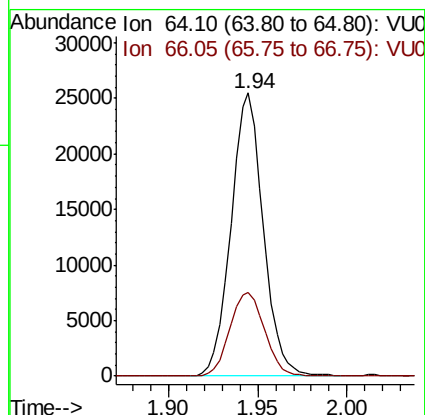
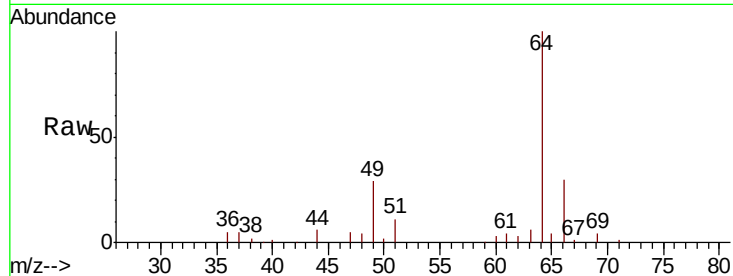




#8
Chloroethane
Concen: 4.733 ug/L
RT: 1.94 min Scan# 188
Delta R.T. -0.00 min
Lab File: VU040197.D
Acq: 17 Sep 2020 21:26

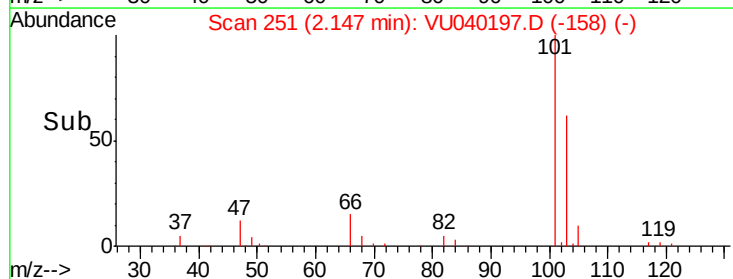
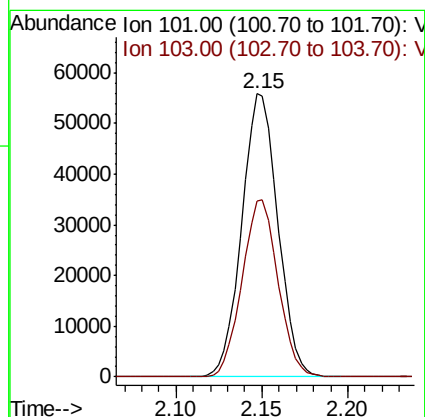
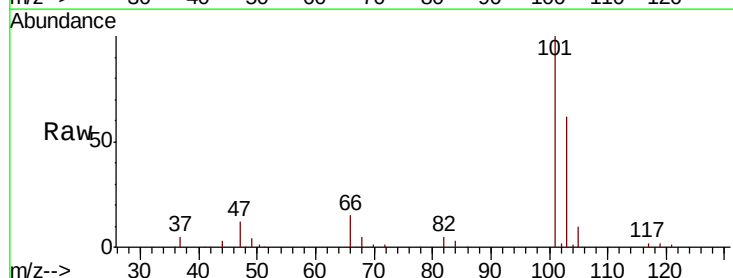
Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

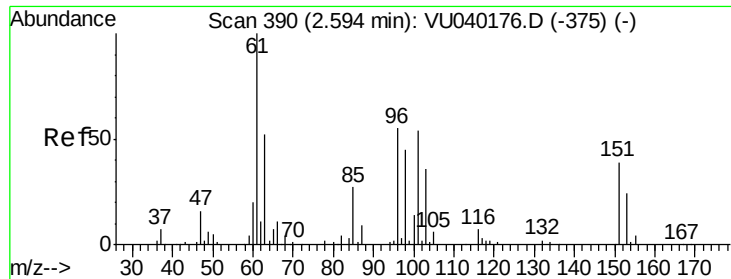
Tot Ion: 64 Resp: 31842
Ion Ratio Lower Upper
64 100
66 29.6 22.7 42.1



#9
Trichlorofluoromethane
Concen: 5.059 ug/L
RT: 2.15 min Scan# 251
Delta R.T. -0.00 min
Lab File: VU040197.D
Acq: 17 Sep 2020 21:26

Tgt Ion:101 Resp: 81127
Ion Ratio Lower Upper
101 100
103 62.5 51.3 76.9





#10

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

Concen: 5.092 ug/L

RT: 2.59 min Scan# 390

Delta R.T. -0.00 min

Lab File: VU040197.D

Acq: 17 Sep 2020 21:26

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

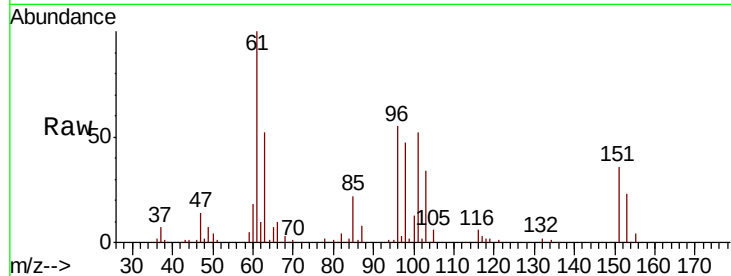
Tot Ion:101 Resp: 52922

Ion Ratio Lower Upper

101 100

85 44.4 37.7 56.5

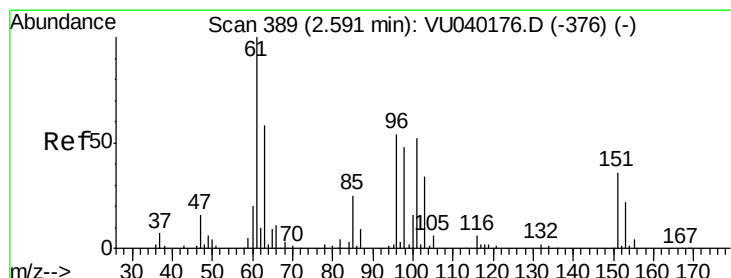
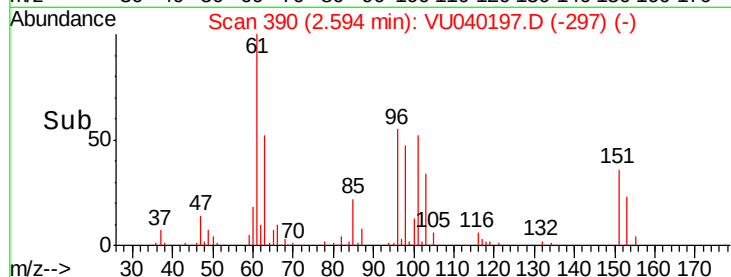
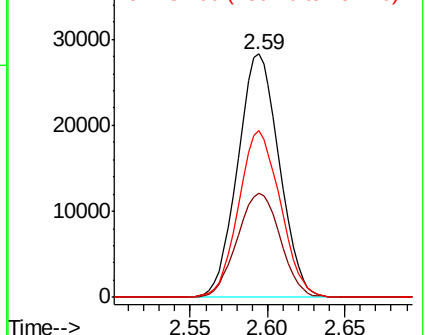
151 68.6 53.9 80.9



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: 5.302 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU040197.D

Acq: 17 Sep 2020 21:26

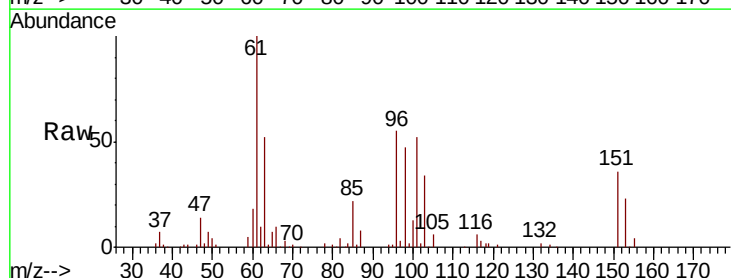
Tgt Ion: 96 Resp: 47683

Ion Ratio Lower Upper

96 100

61 182.6 138.3 256.8

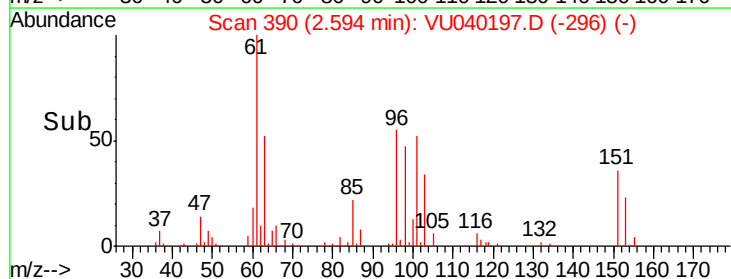
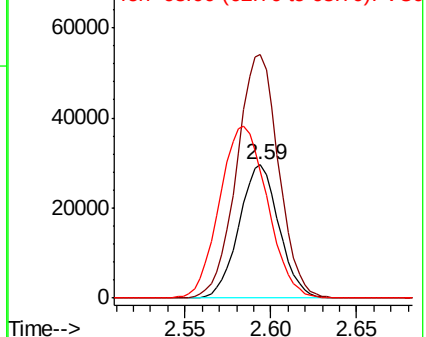
63 95.6 77.6 144.2

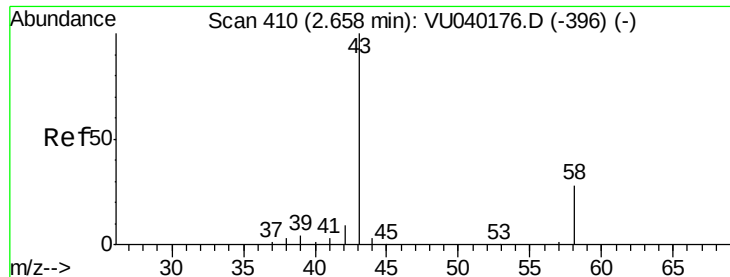


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 44.890 ug/L

RT: 2.66 min Scan# 412

Delta R.T. 0.01 min

Lab File: VU040197.D

Acq: 17 Sep 2020 21:26

Instrument :

MSVOA_U

ClientSampleId :

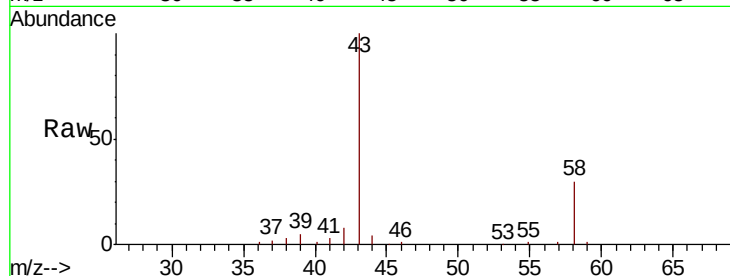
VSTD00512

Tot Ion: 43 Resp: 105463

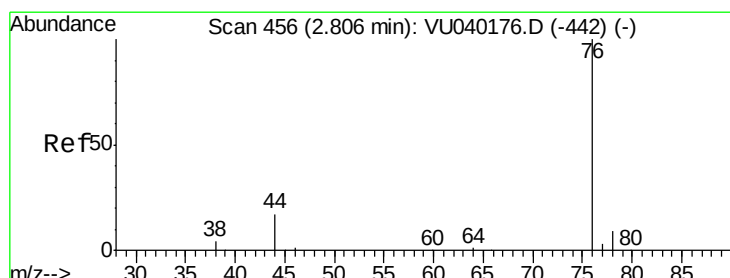
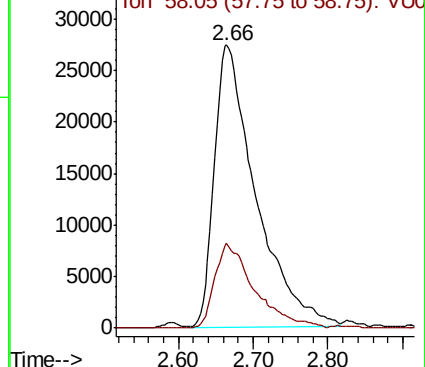
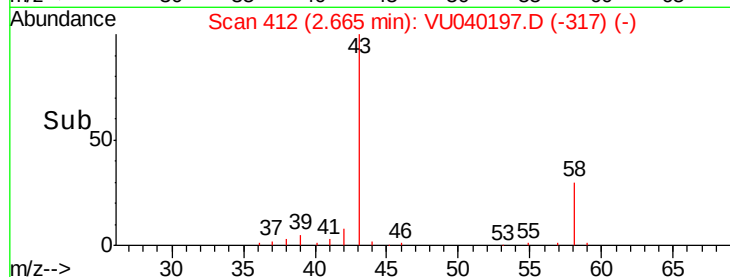
Ion Ratio Lower Upper

43 100

58 28.9 0.0 55.4



Abundance Ion 43.05 (42.75 to 43.75): VU040197.D (-317) (-)



#14

Carbon disulfide

Concen: 4.575 ug/L

RT: 2.81 min Scan# 456

Delta R.T. -0.00 min

Lab File: VU040197.D

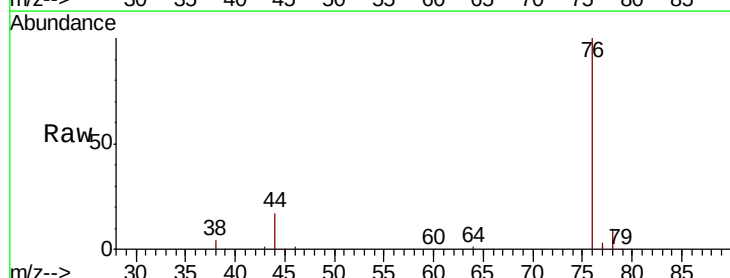
Acq: 17 Sep 2020 21:26

Tgt Ion: 76 Resp: 131928

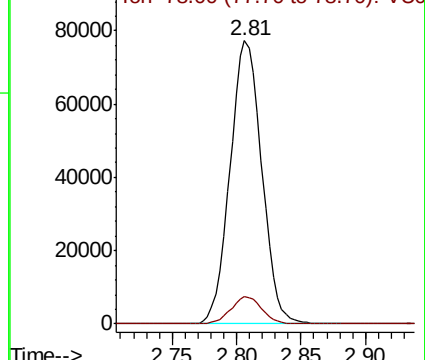
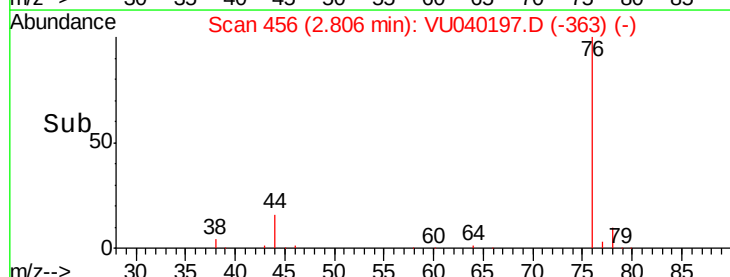
Ion Ratio Lower Upper

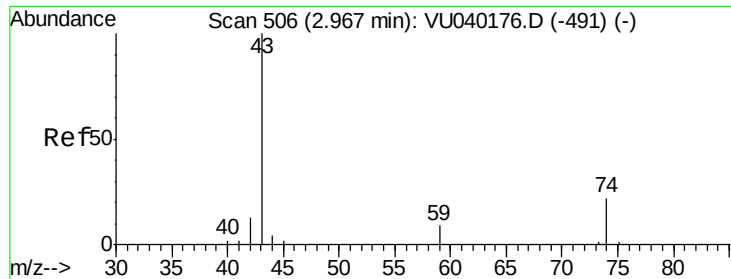
76 100

78 9.6 7.2 10.8



Abundance Ion 76.05 (75.75 to 76.75): VU040197.D (-363) (-)

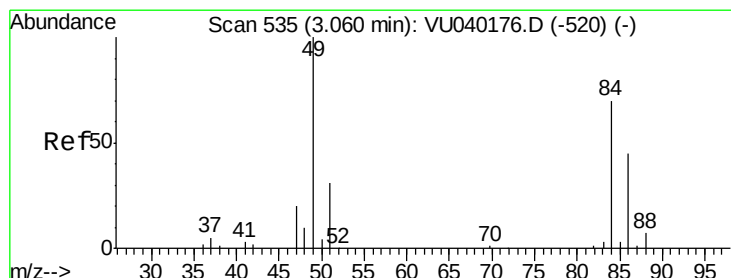
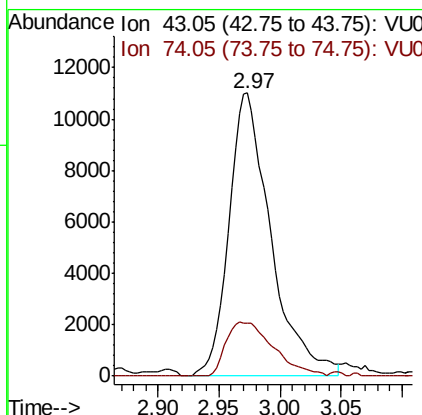
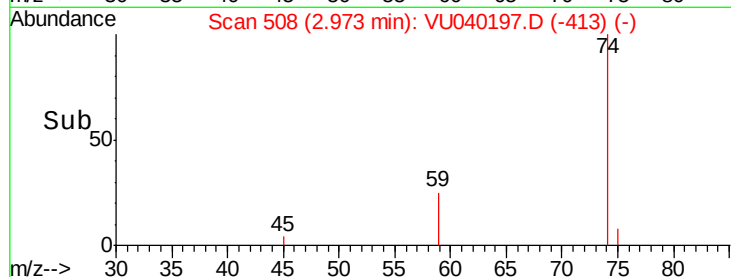
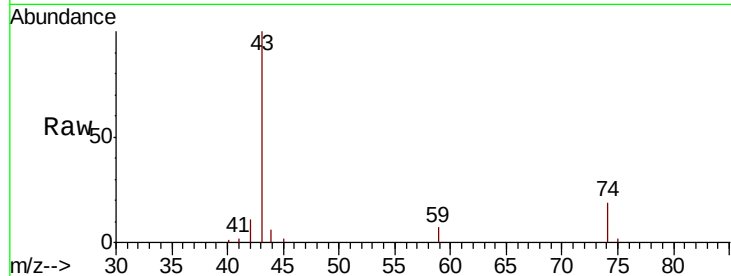




#15
Methvl Acetate
Concen: 4.472 ug/L
RT: 2.97 min Scan# 508
Delta R.T. 0.01 min
Lab File: VU040197.D
Acq: 17 Sep 2020 21:26

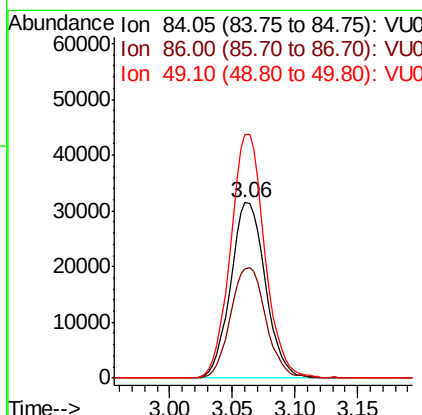
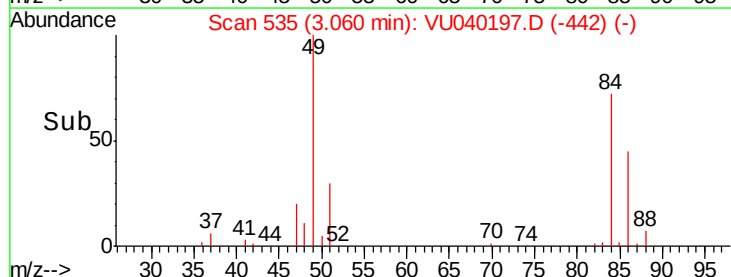
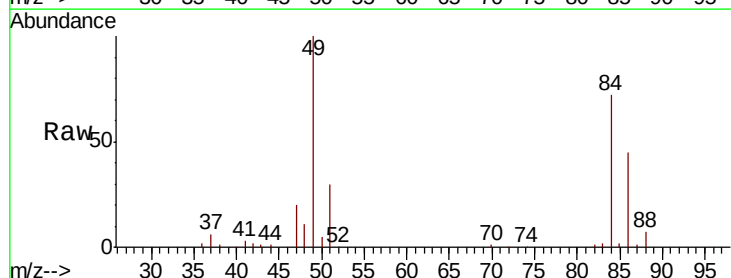
Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

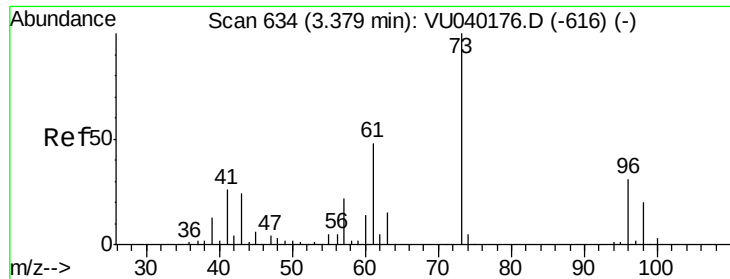
Tot Ion: 43 Resp: 26370
Ion Ratio Lower Upper
43 100
74 21.6 17.4 26.0



#16
Methylene chloride
Concen: 5.154 ug/L
RT: 3.06 min Scan# 535
Delta R.T. -0.00 min
Lab File: VU040197.D
Acq: 17 Sep 2020 21:26

Tgt Ion: 84 Resp: 60703
Ion Ratio Lower Upper
84 100
86 62.3 45.2 84.0
49 138.6 104.0 193.2

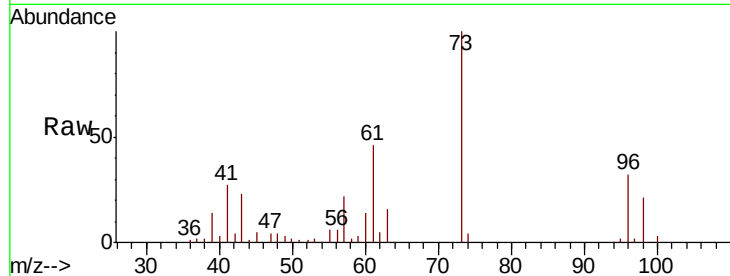




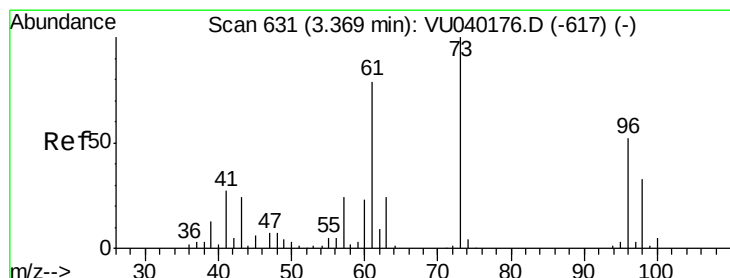
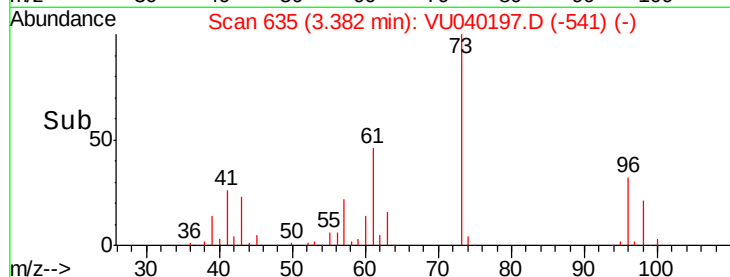
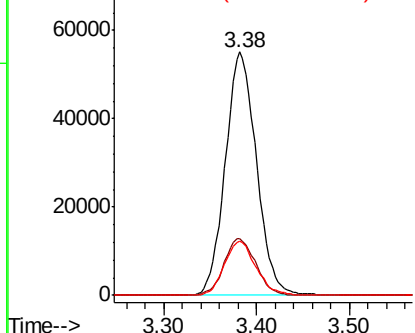
#17
Methyl tert-butyl Ether
Concen: 4.742 ug/L
RT: 3.38 min Scan# 635
Delta R.T. 0.00 min
Lab File: VU040197.D
Acq: 17 Sep 2020 21:26

Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

Tot Ion: 73 Resp: 128537
Ion Ratio Lower Upper
73 100
43 23.7 19.1 28.7
57 22.6 18.3 27.5

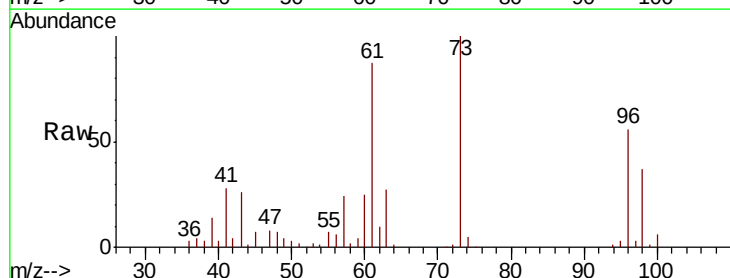


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

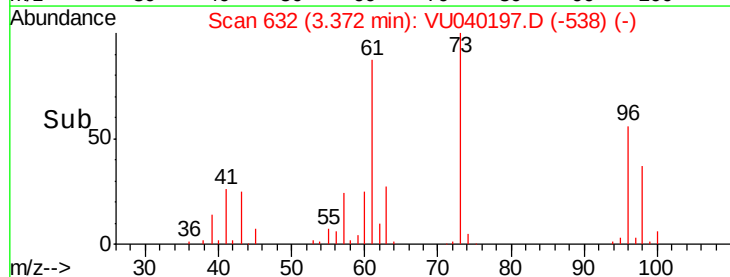
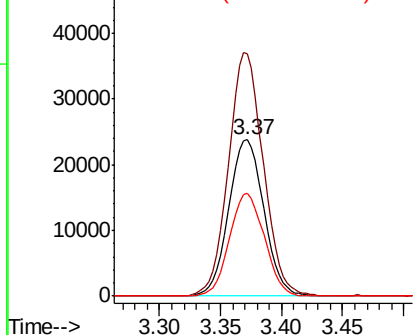


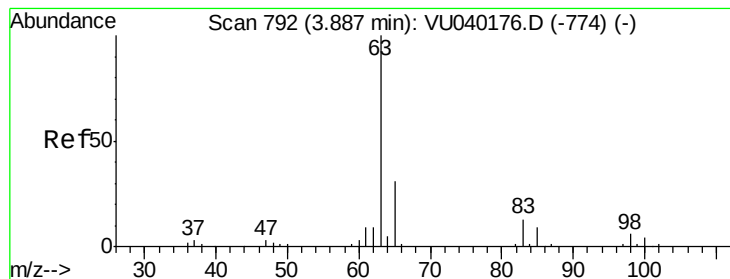
#18
trans-1,2-Dichloroethene
Concen: 4.959 ug/L
RT: 3.37 min Scan# 632
Delta R.T. 0.00 min
Lab File: VU040197.D
Acq: 17 Sep 2020 21:26

Tgt Ion: 96 Resp: 47976
Ion Ratio Lower Upper
96 100
61 155.1 110.5 205.3
98 66.0 43.2 80.2



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: 4.983 ug/L

RT: 3.89 min Scan# 793

Delta R.T. 0.00 min

Lab File: VU040197.D

Acq: 17 Sep 2020 21:26

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

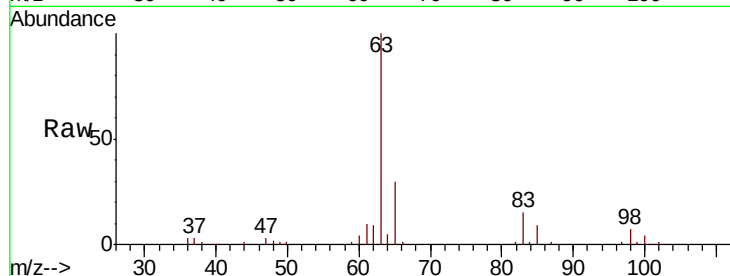
Tot Ion: 63 Resp: 99233

Ion Ratio Lower Upper

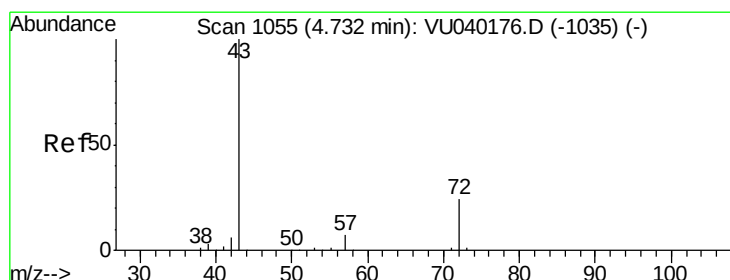
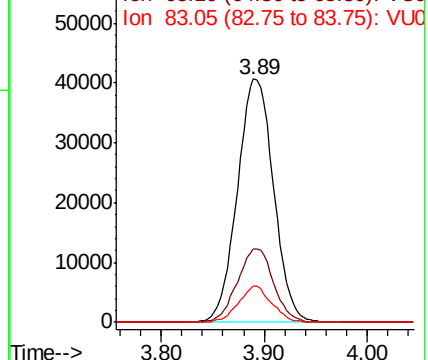
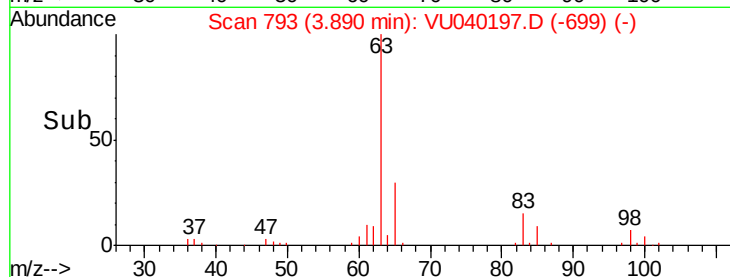
63 100

65 30.0 22.2 41.2

83 14.9 9.4 17.6



Abundance Ion 63.10 (62.80 to 63.80): VU040197.D (-699) (-)



#21

2-Butanone

Concen: 44.636 ug/L

RT: 4.74 min Scan# 1057

Delta R.T. 0.01 min

Lab File: VU040197.D

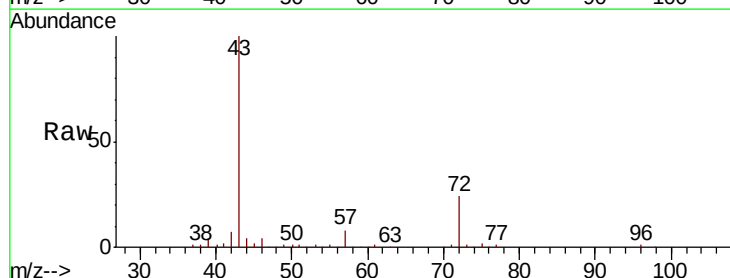
Acq: 17 Sep 2020 21:26

Tgt Ion: 43 Resp: 171203

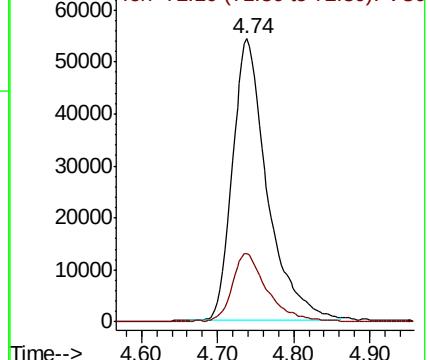
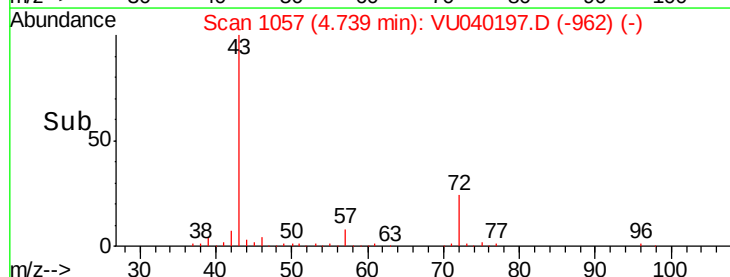
Ion Ratio Lower Upper

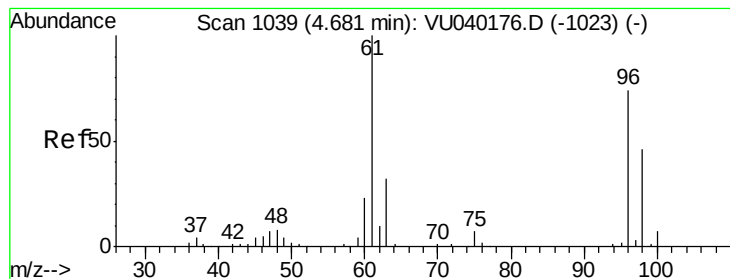
43 100

72 23.9 11.7 35.0



Abundance Ion 43.05 (42.75 to 43.75): VU040197.D (-962) (-)





#22

cis-1,2-Dichloroethene

Concen: 5.282 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.01 min

Lab File: VU040197.D

Acq: 17 Sep 2020 21:26

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

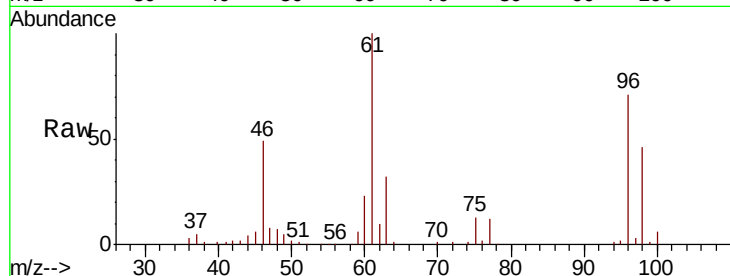
Tot Ion: 96 Resp: 54950

Ion Ratio Lower Upper

96 100

61 141.6 98.8 183.4

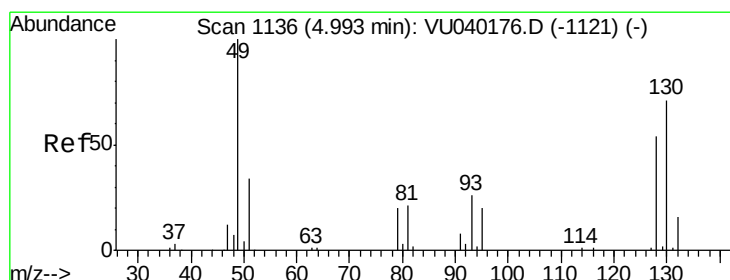
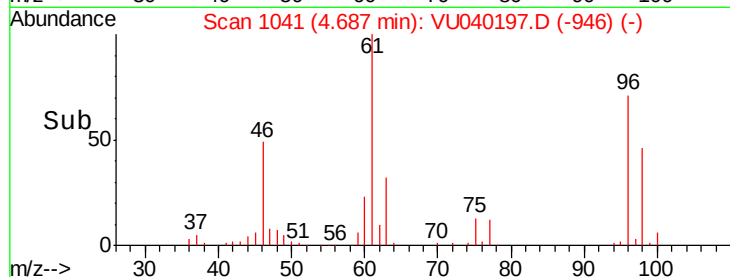
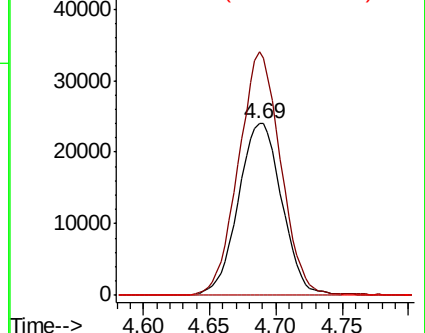
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU040197.D (-946) (-)

Ion 61.05 (60.75 to 61.75): VU040197.D (-946) (-)

Ion 68.15 (67.85 to 68.85): VU040197.D (-946) (-)



#23

Bromochloromethane

Concen: 5.315 ug/L

RT: 4.99 min Scan# 1136

Delta R.T. -0.00 min

Lab File: VU040197.D

Acq: 17 Sep 2020 21:26

Tgt Ion: 128 Resp: 24224

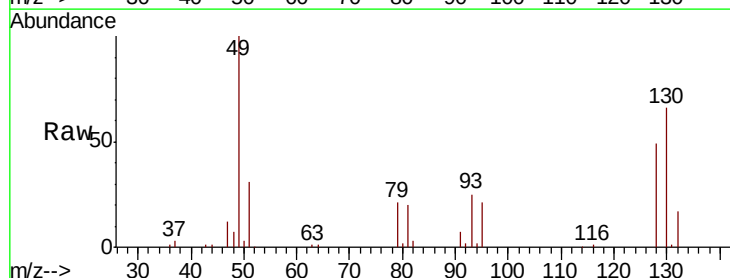
Ion Ratio Lower Upper

128 100

49 204.0 143.4 266.4

130 135.1 89.5 166.3

51 63.7 51.0 76.4

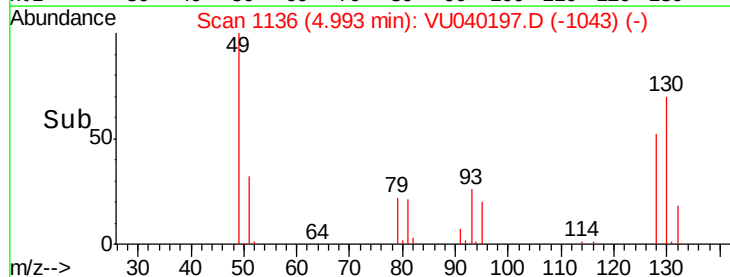
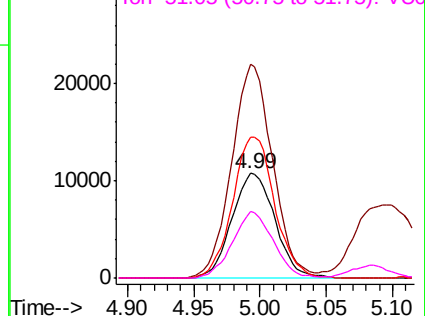


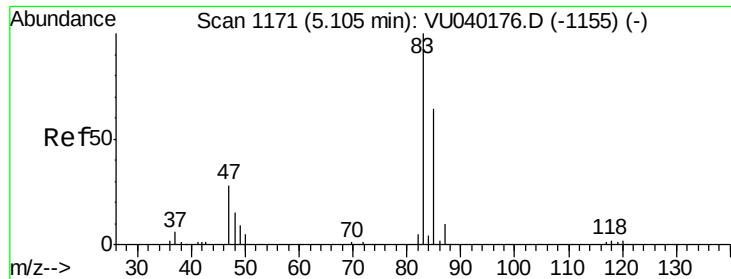
Abundance Ion 127.90 (127.60 to 128.60): VU040197.D (-1043) (-)

Ion 49.10 (48.80 to 49.80): VU040197.D (-1043) (-)

Ion 129.95 (129.65 to 130.65): VU040197.D (-1043) (-)

Ion 51.05 (50.75 to 51.75): VU040197.D (-1043) (-)

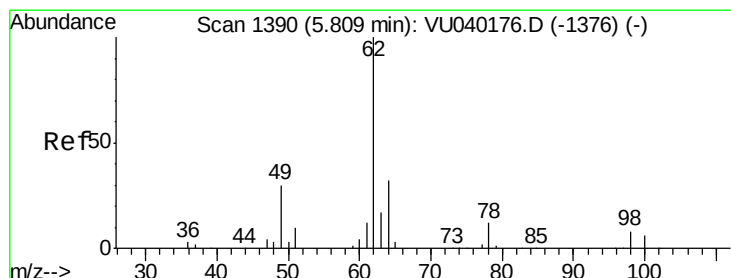
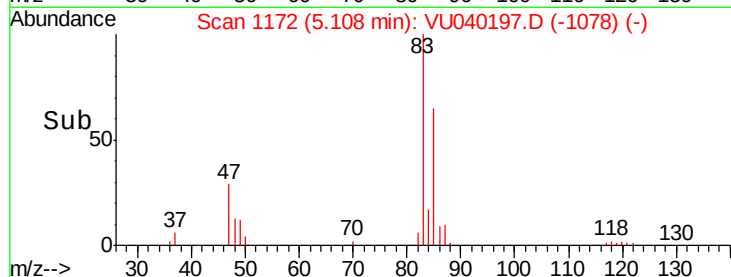
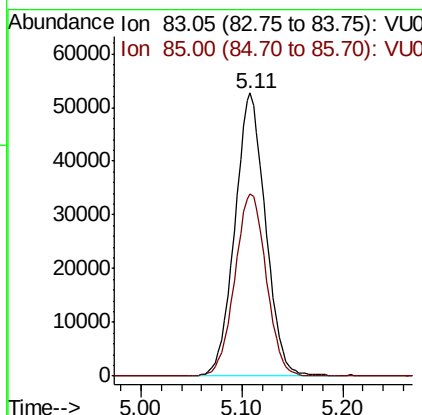
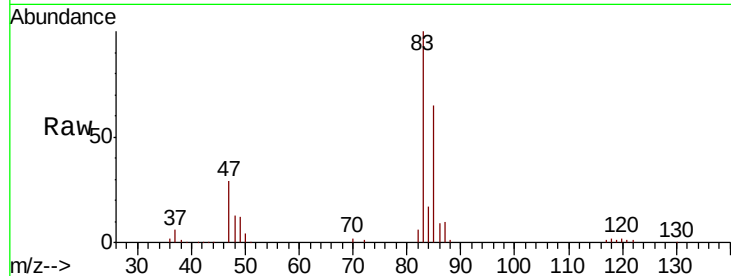




#25
Chloroform
Concen: 5.449 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. 0.00 min
Lab File: VU040197.D
Acq: 17 Sep 2020 21:26

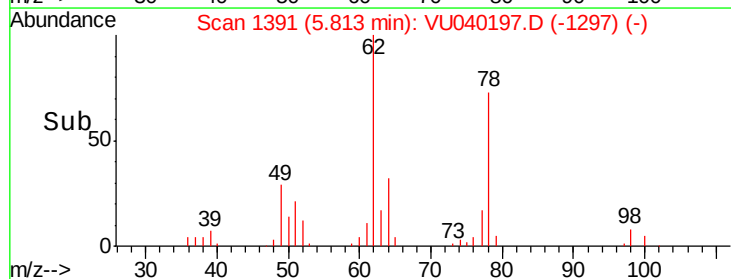
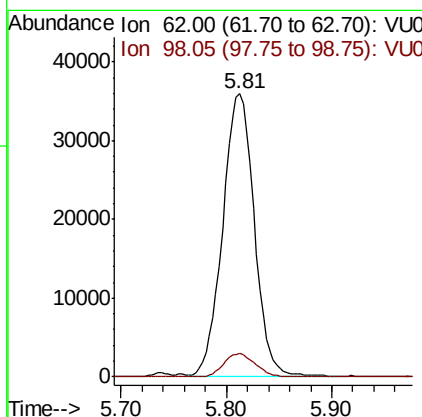
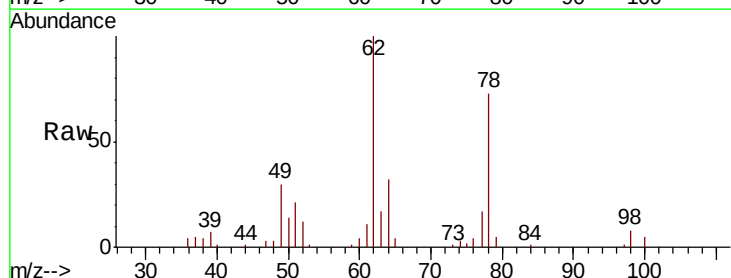
Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

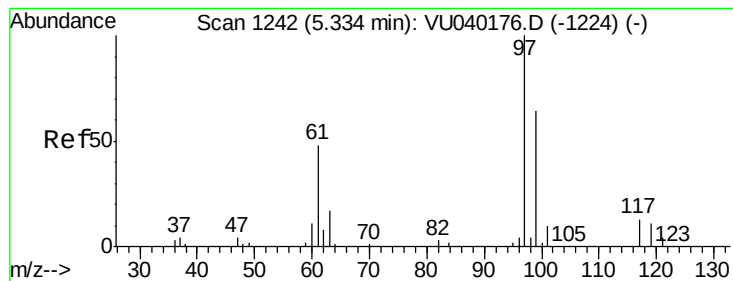
Tot Ion: 83 Resp: 111129
Ion Ratio Lower Upper
83 100
85 64.5 45.3 84.1



#27
1,2-Dichloroethane
Concen: 5.013 ug/L
RT: 5.81 min Scan# 1391
Delta R.T. 0.00 min
Lab File: VU040197.D
Acq: 17 Sep 2020 21:26

Tgt Ion: 62 Resp: 74905
Ion Ratio Lower Upper
62 100
98 8.1 6.1 9.1





#29

1,1,1-Trichloroethane

Concen: 5.205 ug/L

RT: 5.34 min Scan# 1243

Delta R.T. 0.00 min

Lab File: VU040197.D

Acq: 17 Sep 2020 21:26

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

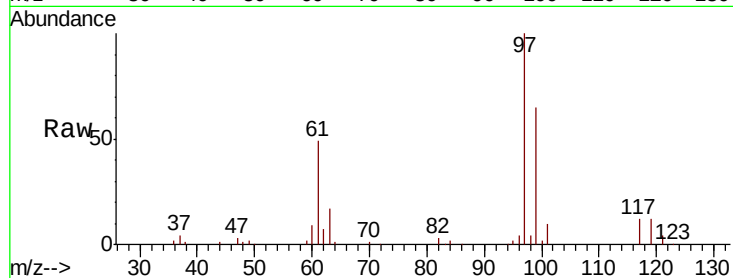
Tot Ion: 97 Resp: 90680

Ion Ratio Lower Upper

97 100

99 63.4 50.9 76.3

61 49.0 39.5 59.3

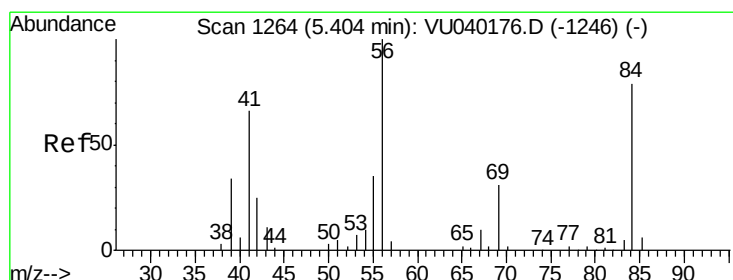
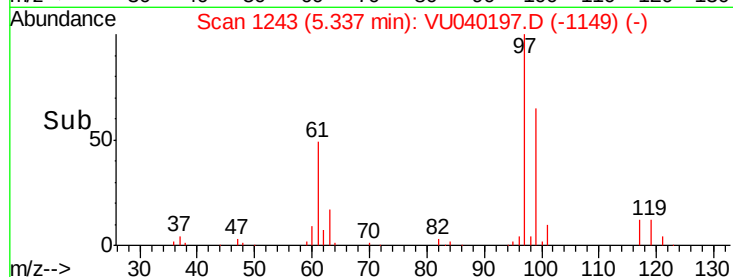
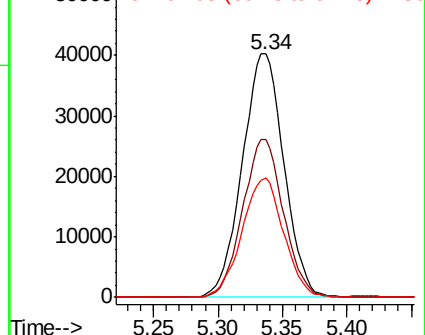


Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 61.05 (60.75 to 61.75): VU0



#30

Cyclohexane

Concen: 4.677 ug/L

RT: 5.41 min Scan# 1265

Delta R.T. 0.00 min

Lab File: VU040197.D

Acq: 17 Sep 2020 21:26

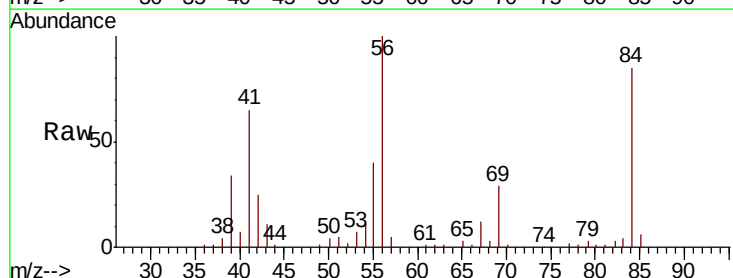
Tgt Ion: 56 Resp: 79020

Ion Ratio Lower Upper

56 100

69 30.8 24.1 36.1

84 84.6 65.0 97.4

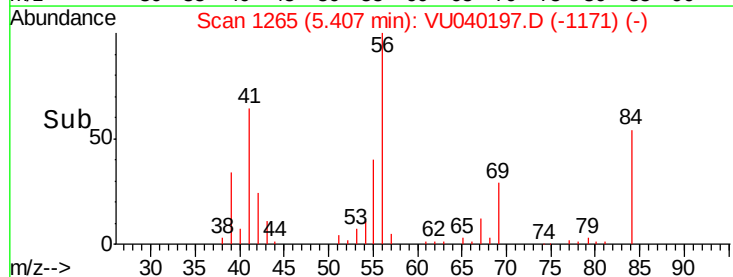
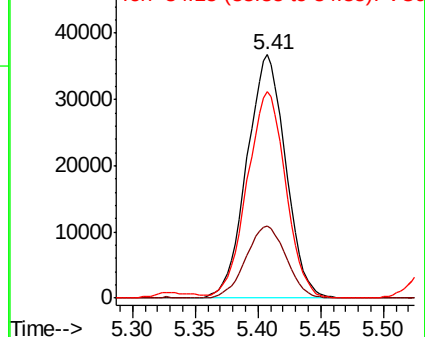


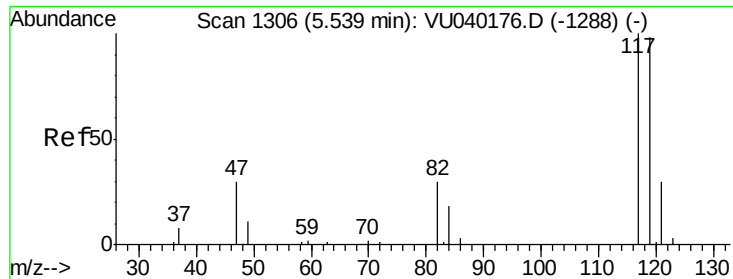
Abundance

Ion 56.10 (55.80 to 56.80): VU0

Ion 69.15 (68.85 to 69.85): VU0

Ion 84.15 (83.85 to 84.85): VU0

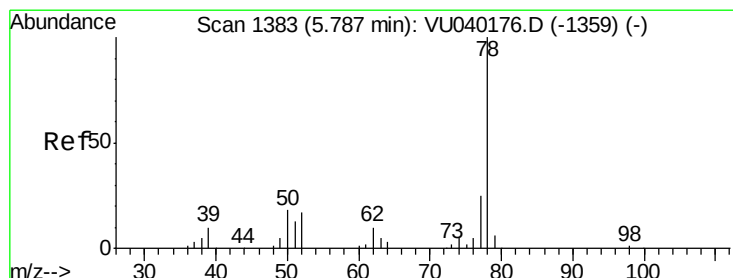
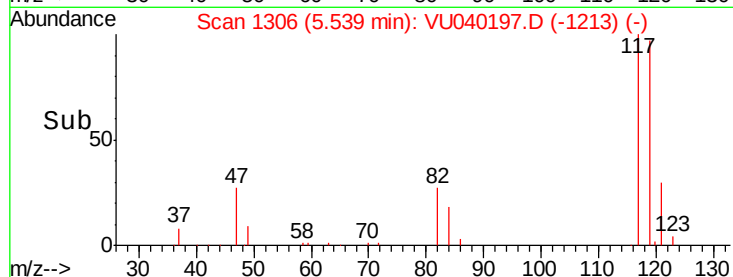
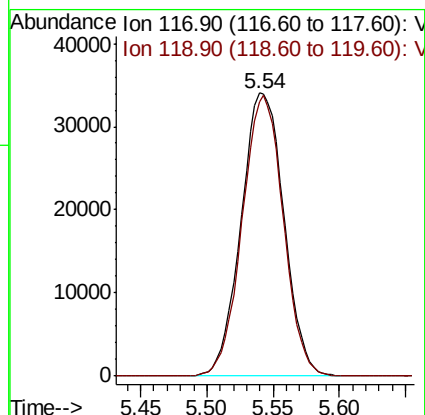
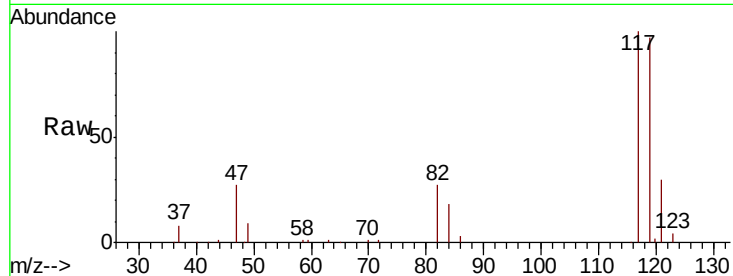




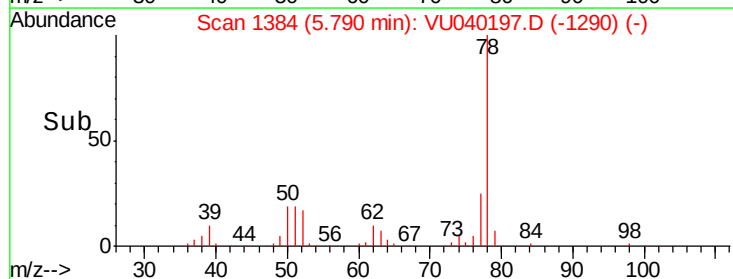
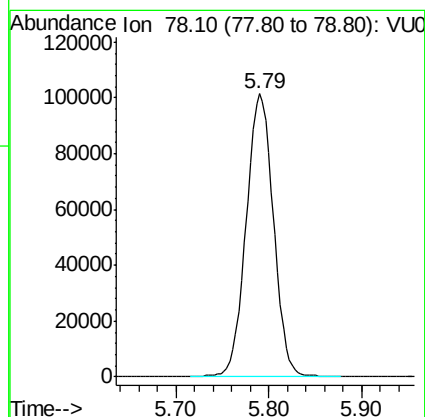
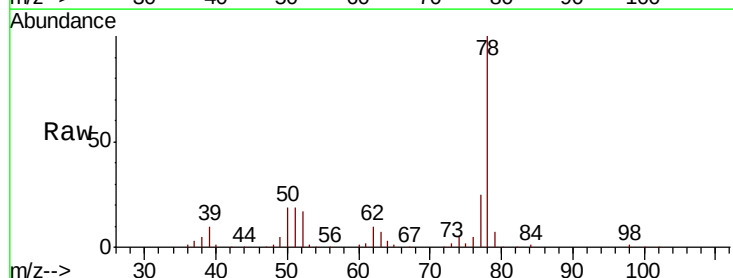
#31
Carbon tetrachloride
Concen: 5.143 ug/L
RT: 5.54 min Scan# 1306
Delta R.T. -0.00 min
Lab File: VU040197.D
Acq: 17 Sep 2020 21:26

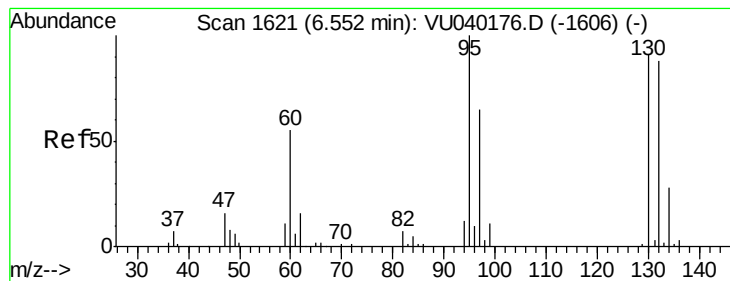
Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

Tot Ion:117 Resp: 76686
Ion Ratio Lower Upper
117 100
119 94.7 77.7 116.5



#33
Benzene
Concen: 5.228 ug/L
RT: 5.79 min Scan# 1384
Delta R.T. 0.00 min
Lab File: VU040197.D
Acq: 17 Sep 2020 21:26
Tgt Ion: 78 Resp: 207541





#34

Trichloroethene

Concen: 5.133 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. 0.00 min

Lab File: VU040197.D

Acq: 17 Sep 2020 21:26

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

Tot Ion: 95 Resp: 54658

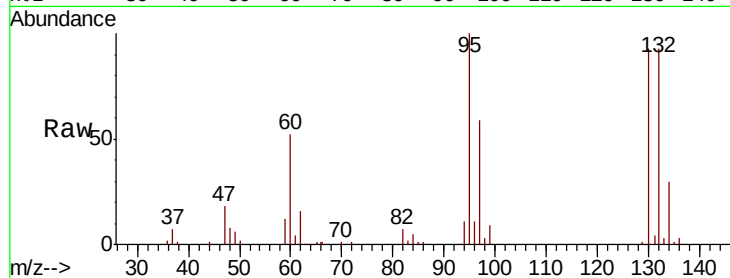
Ion Ratio Lower Upper

95 100

97 58.5 43.3 80.5

132 92.6 59.4 110.4

130 93.3 64.8 120.4

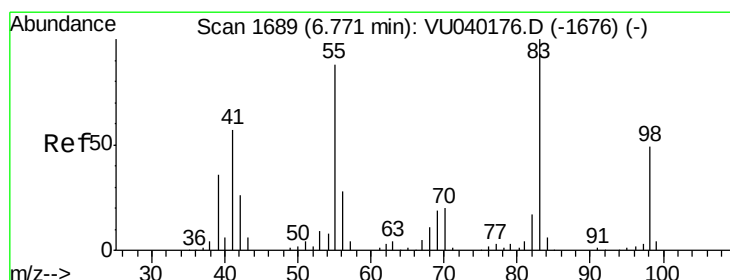
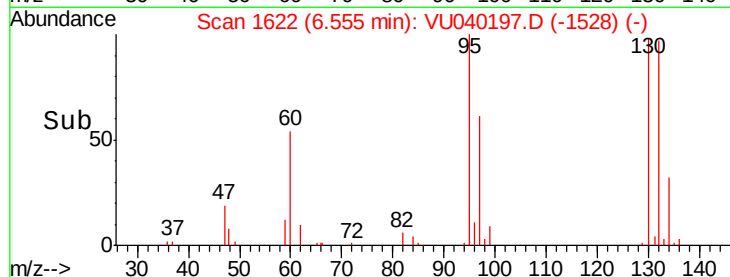
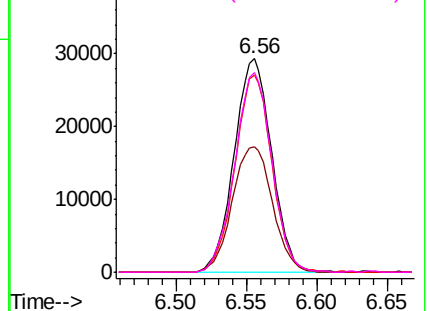


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 4.681 ug/L

RT: 6.77 min Scan# 1690

Delta R.T. 0.00 min

Lab File: VU040197.D

Acq: 17 Sep 2020 21:26

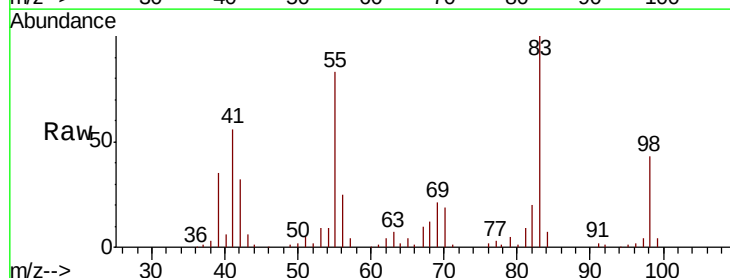
Tgt Ion: 83 Resp: 76322

Ion Ratio Lower Upper

83 100

55 86.2 70.5 105.7

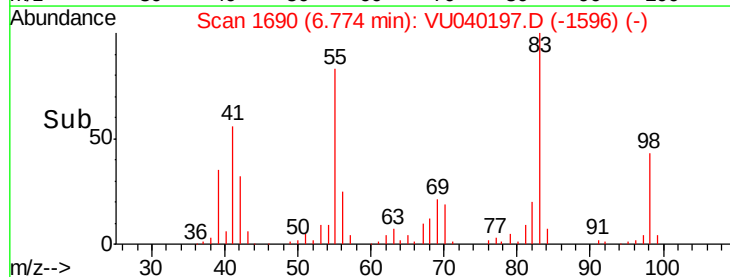
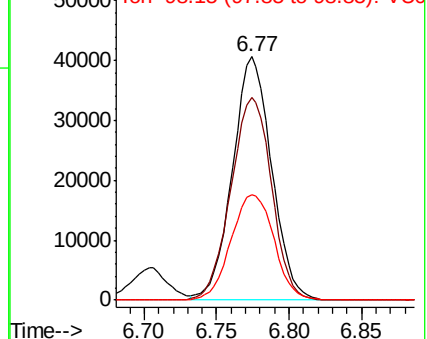
98 47.5 37.8 56.6

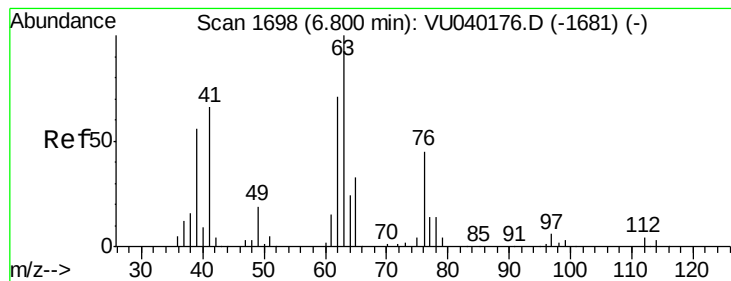


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 5.372 ug/L

RT: 6.80 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VU040197.D

Acq: 17 Sep 2020 21:26

Instrument :

MSVOA_U

ClientSampleId :

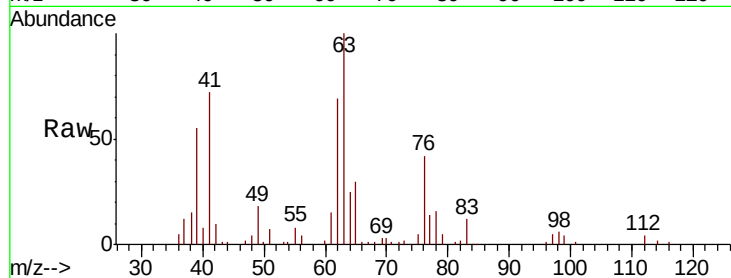
VSTD00512

Tot Ion: 63 Resp: 57742

Ion Ratio Lower Upper

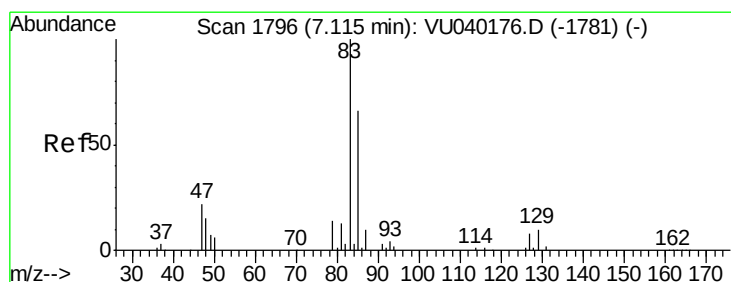
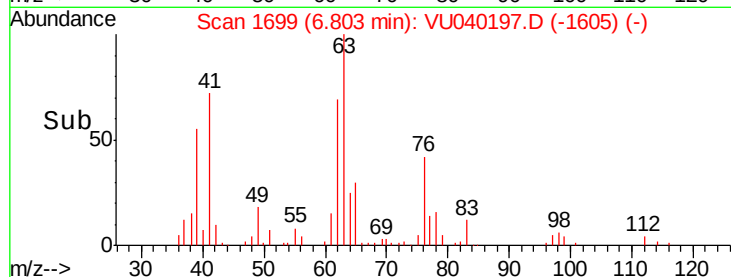
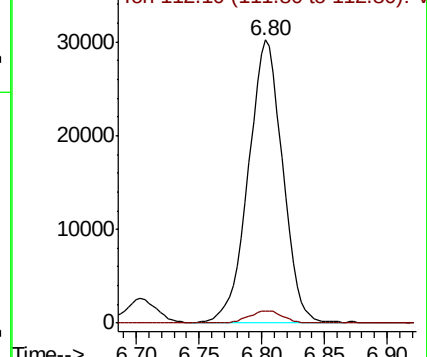
63 100

112 4.1 3.2 4.8



Abundance Ion 63.10 (62.80 to 63.80): VU040197.D (-1699) (-)

Ion 112.10 (111.80 to 112.80): VU040197.D (-1699) (-)



#38

Bromodichloromethane

Concen: 5.181 ug/L

RT: 7.11 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VU040197.D

Acq: 17 Sep 2020 21:26

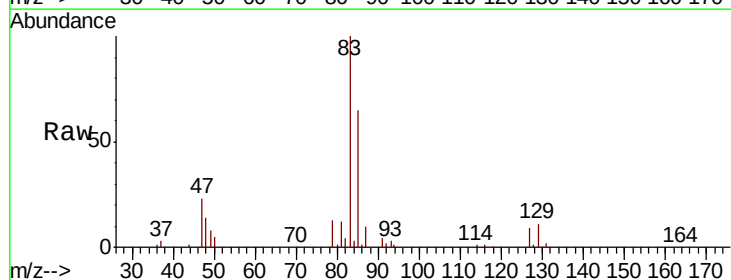
Tgt Ion: 83 Resp: 76020

Ion Ratio Lower Upper

83 100

85 64.8 45.1 83.9

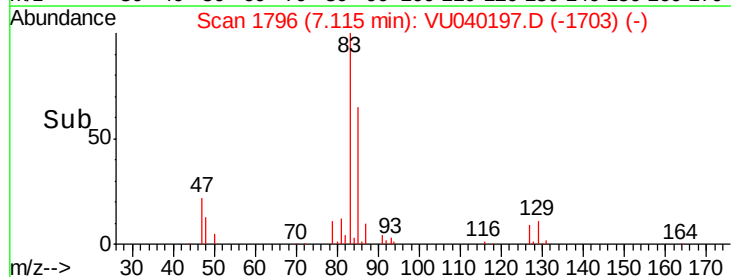
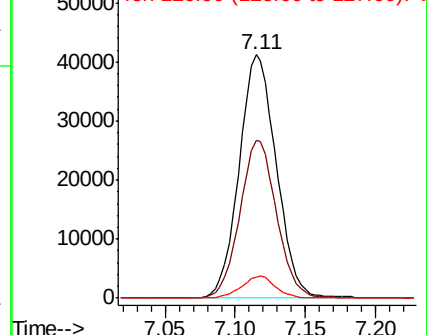
127 8.7 6.7 10.1

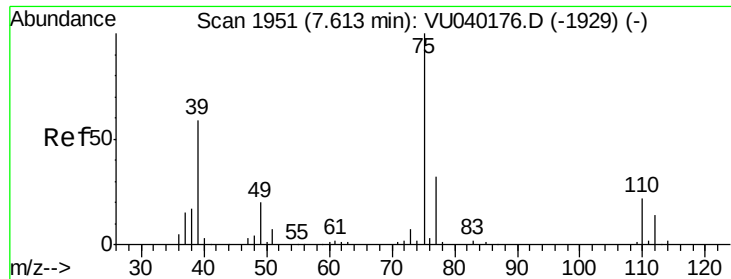


Abundance Ion 82.95 (82.65 to 83.65): VU040197.D (-1796) (-)

Ion 85.00 (84.70 to 85.70): VU040197.D (-1796) (-)

Ion 126.90 (126.60 to 127.60): VU040197.D (-1796) (-)

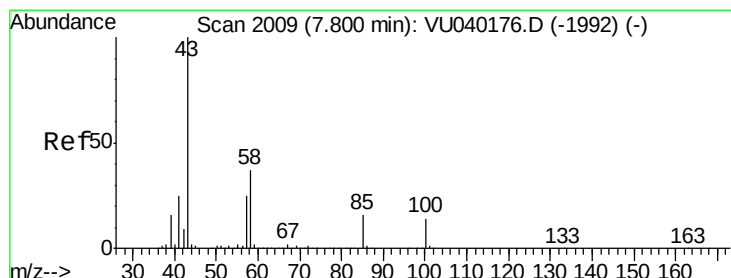
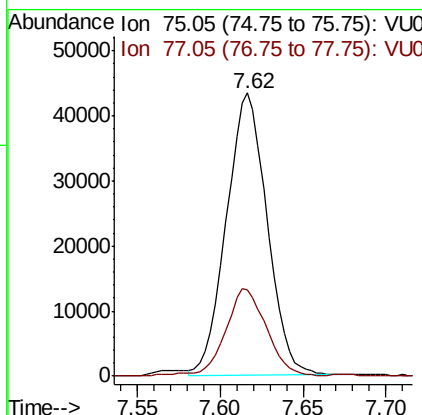
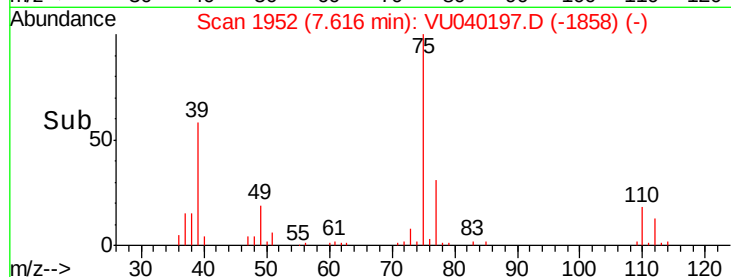
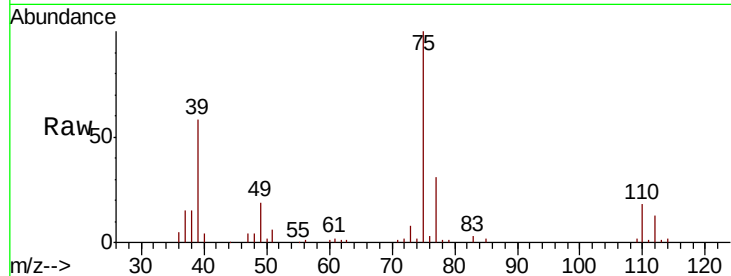




#39
 cis-1,3-Dichloropropene
 Concen: 4.666 ug/L
 RT: 7.62 min Scan# 1952
 Delta R.T. 0.00 min
 Lab File: VU040197.D
 Acq: 17 Sep 2020 21:26

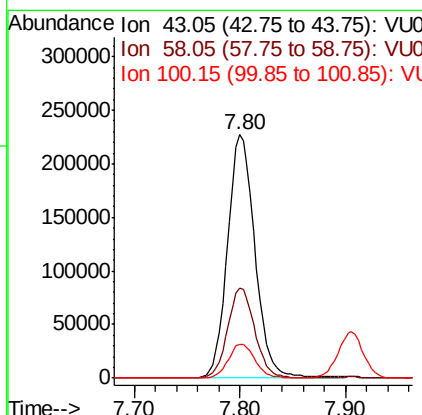
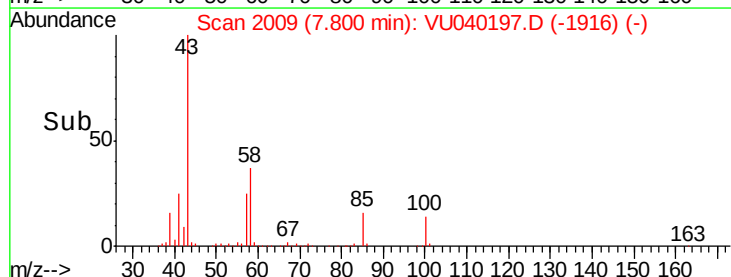
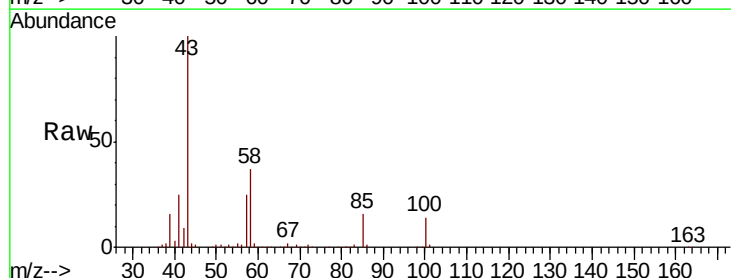
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

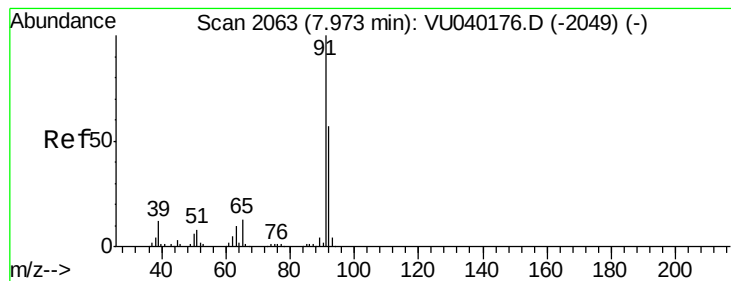
Tot Ion: 75 Resp: 73963
 Ion Ratio Lower Upper
 75 100
 77 30.6 21.1 39.3



#40
 4-Methyl-2-pentanone
 Concen: 46.287 ug/L
 RT: 7.80 min Scan# 2009
 Delta R.T. -0.00 min
 Lab File: VU040197.D
 Acq: 17 Sep 2020 21:26

Tgt Ion: 43 Resp: 408220
 Ion Ratio Lower Upper
 43 100
 58 36.5 28.7 43.1
 100 13.8 10.2 15.2





#42

Toluene

Concen: 5.351 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU040197.D

Acq: 17 Sep 2020 21:26

Instrument :

MSVOA_U

ClientSampleId :

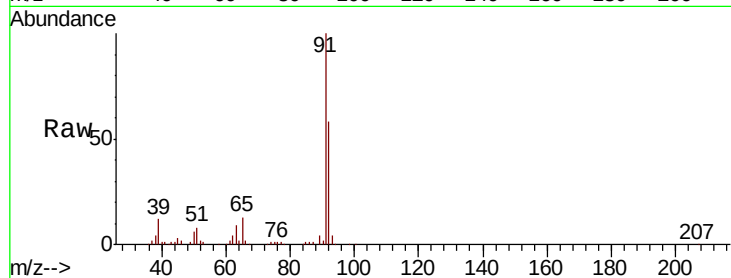
VSTD00512

Tot Ion: 91 Resp: 218774

Ion Ratio Lower Upper

91 100

92 58.3 40.7 75.5



Abundance Ion 91.15 (90.85 to 91.85): VU040197.D (-2049) (-)

Ion 92.15 (91.85 to 92.85): VU040197.D (-2049) (-)

7.98

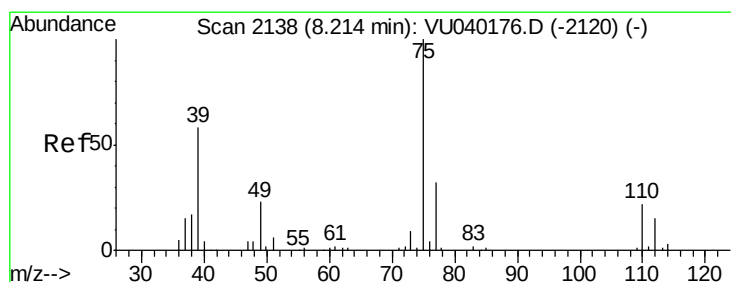
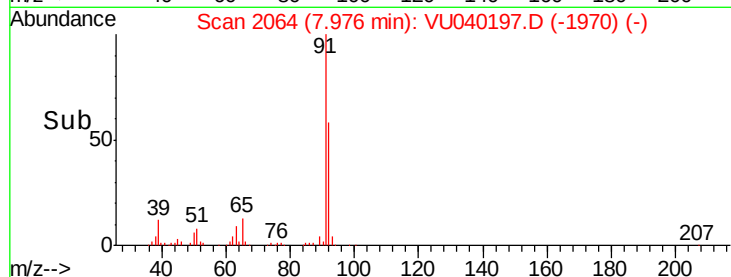
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.773 ug/L

RT: 8.22 min Scan# 2139

Delta R.T. 0.00 min

Lab File: VU040197.D

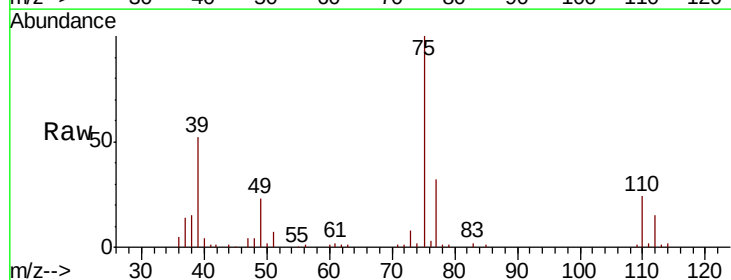
Acq: 17 Sep 2020 21:26

Tgt Ion: 75 Resp: 70105

Ion Ratio Lower Upper

75 100

77 31.5 23.9 44.3



Abundance Ion 75.05 (74.75 to 75.75): VU040197.D (-2045) (-)

Ion 77.05 (76.75 to 77.75): VU040197.D (-2045) (-)

8.22

40000

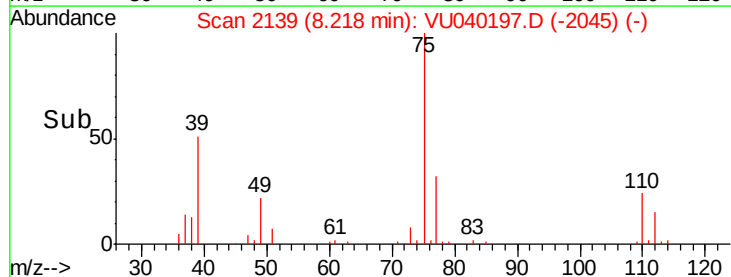
30000

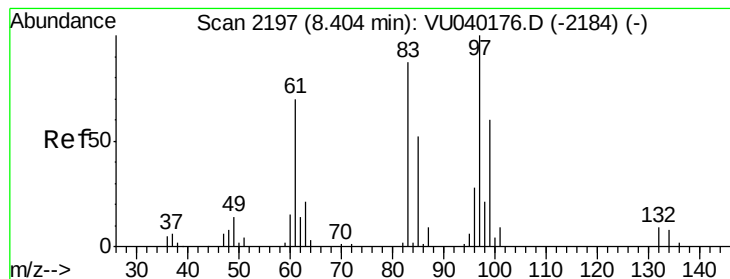
20000

10000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 5.239 ug/L

RT: 8.41 min Scan# 2198

Delta R.T. 0.00 min

Lab File: VU040197.D

Acq: 17 Sep 2020 21:26

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

Tot Ion: 97 Resp: 41021

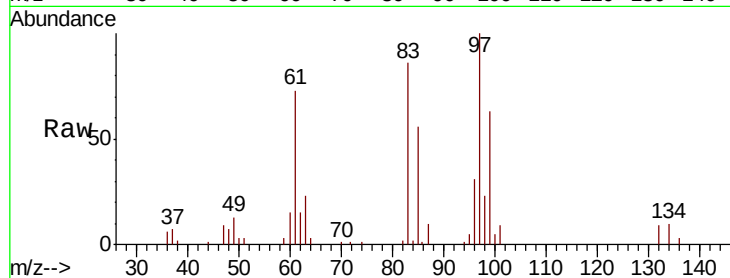
Ion Ratio Lower Upper

97 100

99 62.9 43.0 79.8

83 85.6 61.7 114.7

85 56.4 39.3 73.1

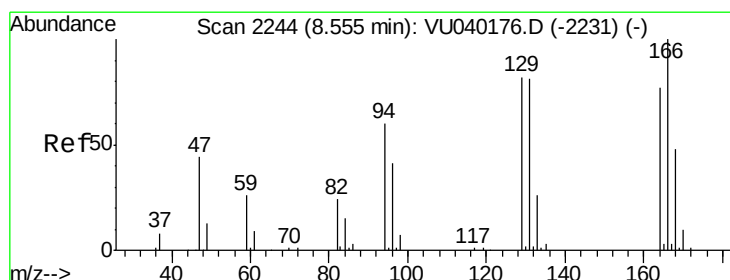
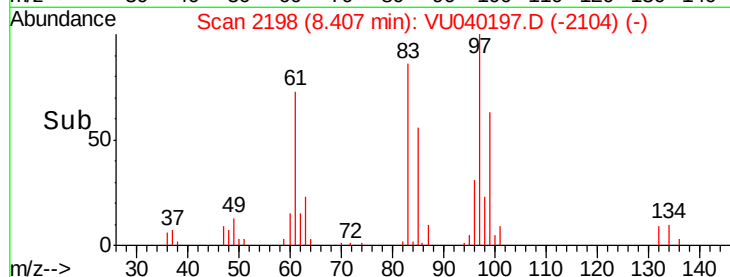
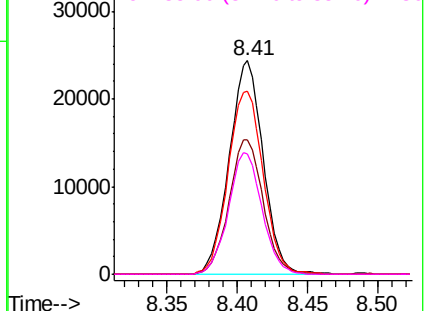


Abundance Ion 96.95 (96.65 to 97.65): VU040197.D (-2198) (-)

Ion 99.05 (98.75 to 99.75): VU040197.D (-2198) (-)

Ion 82.95 (82.65 to 83.65): VU040197.D (-2198) (-)

Ion 85.00 (84.70 to 85.70): VU040197.D (-2198) (-)



#47

Tetrachloroethene

Concen: 5.438 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU040197.D

Acq: 17 Sep 2020 21:26

Tgt Ion: 164 Resp: 38036

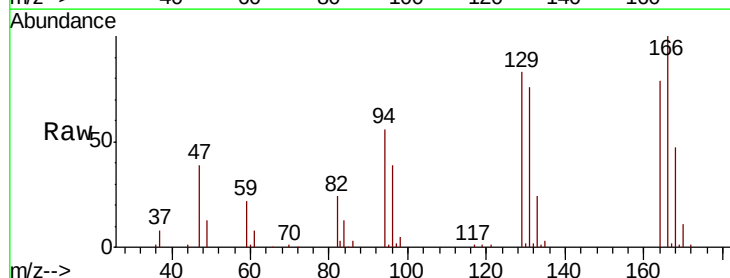
Ion Ratio Lower Upper

164 100

129 105.4 71.5 132.7

131 96.5 65.9 122.5

166 126.5 87.3 162.1

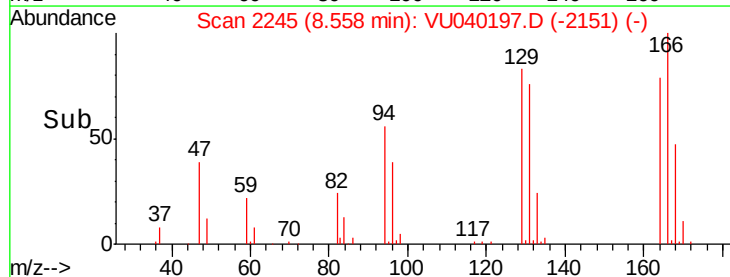
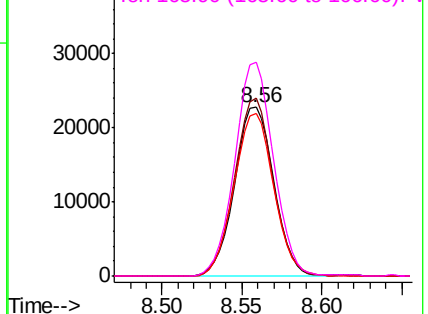


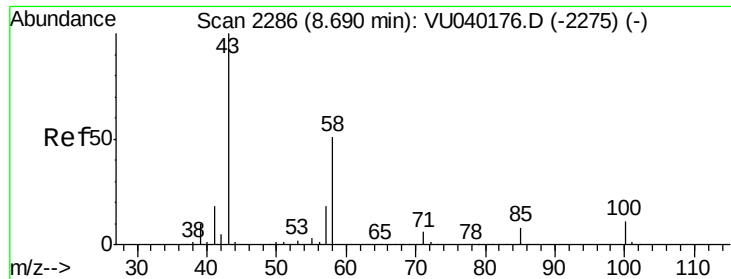
Abundance Ion 163.90 (163.60 to 164.60): VU040197.D (-2245) (-)

Ion 128.95 (128.65 to 129.65): VU040197.D (-2245) (-)

Ion 130.95 (130.65 to 131.65): VU040197.D (-2245) (-)

Ion 165.90 (165.60 to 166.60): VU040197.D (-2245) (-)

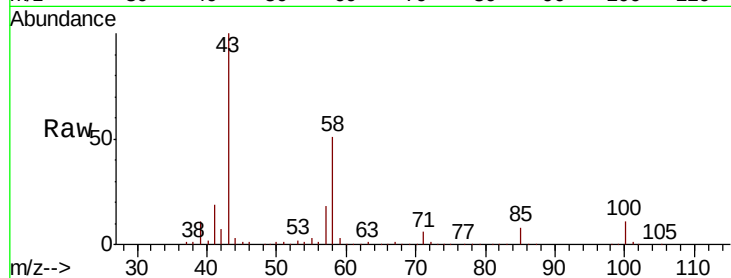




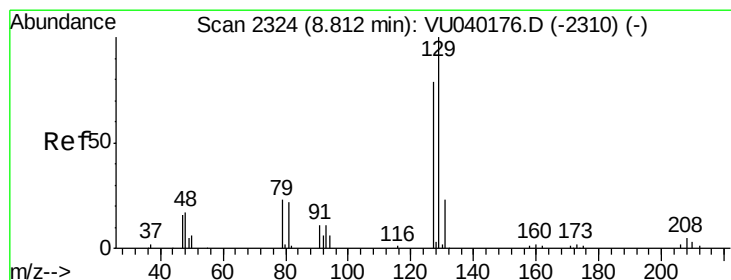
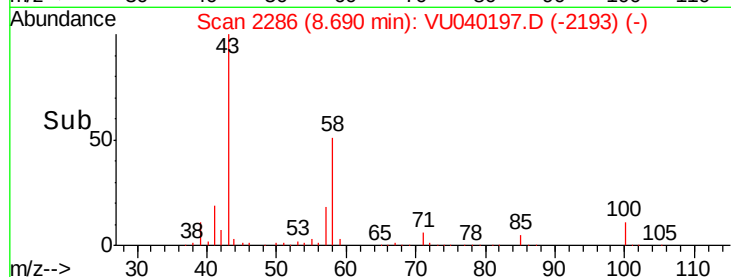
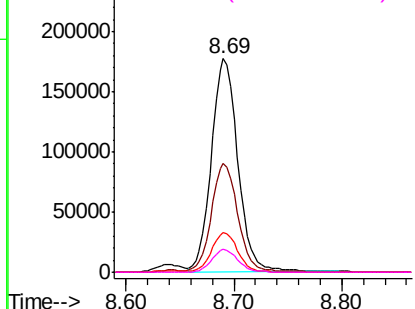
#48
2-Hexanone
Concen: 47.002 ug/L
RT: 8.69 min Scan# 2286
Delta R.T. -0.00 min
Lab File: VU040197.D
Acq: 17 Sep 2020 21:26

Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

Tot Ion: 43 Resp: 302372
Ion Ratio Lower Upper
43 100
58 50.8 39.6 59.4
57 18.1 14.3 21.5
100 10.7 8.0 12.0

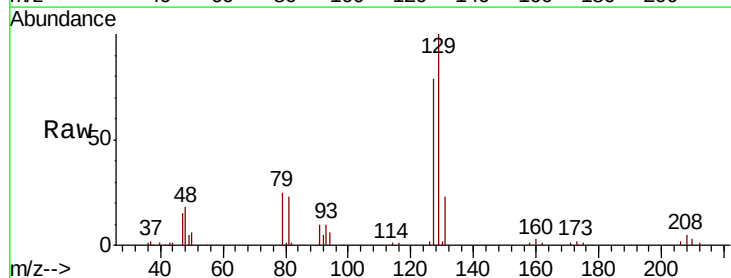


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

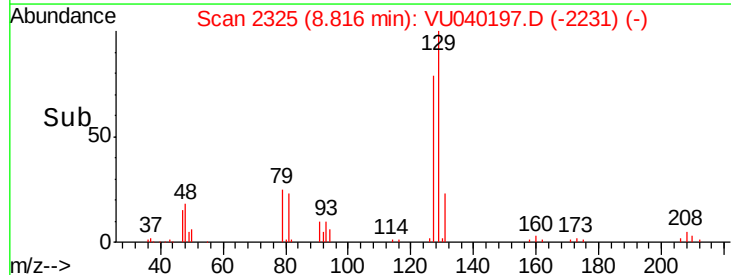
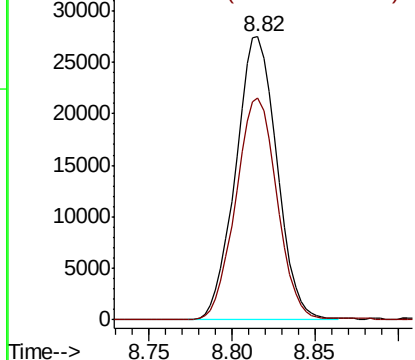


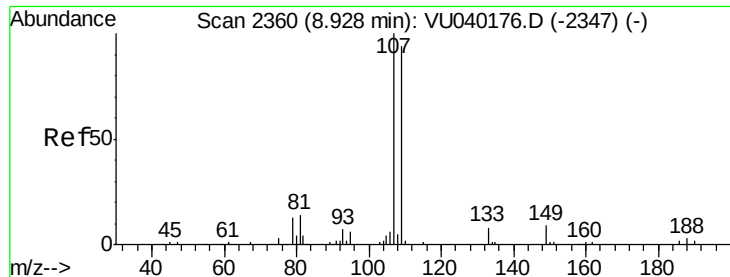
#49
Dibromochloromethane
Concen: 5.064 ug/L
RT: 8.82 min Scan# 2325
Delta R.T. 0.00 min
Lab File: VU040197.D
Acq: 17 Sep 2020 21:26

Tgt Ion: 129 Resp: 47598
Ion Ratio Lower Upper
129 100
127 78.6 53.7 99.7



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

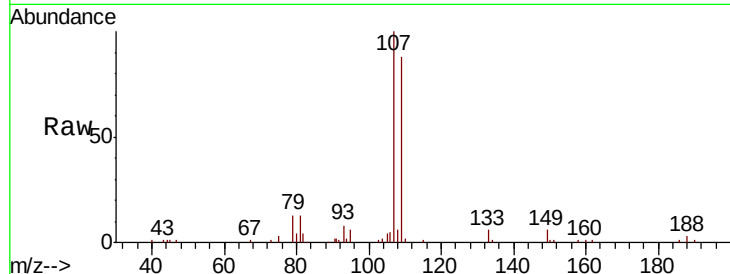




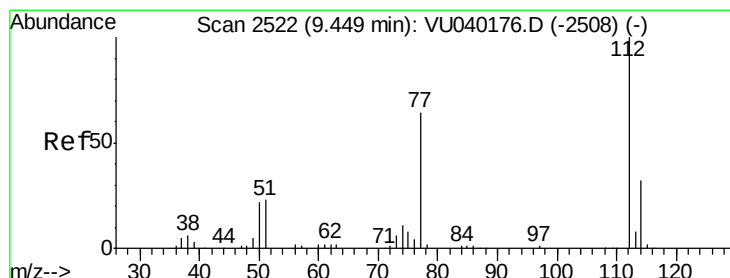
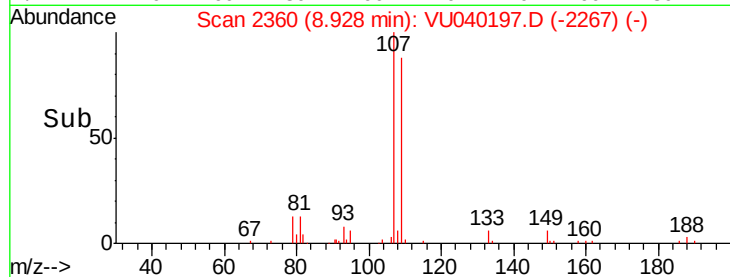
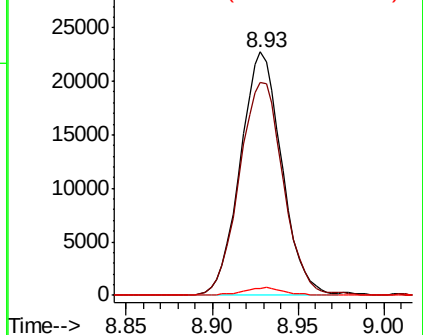
#50
 1,2-Dibromoethane
 Concen: 5.038 ug/L
 RT: 8.93 min Scan# 2360
 Delta R.T. -0.00 min
 Lab File: VU040197.D
 Acq: 17 Sep 2020 21:26

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

Tot Ion:107 Resp: 38032
 Ion Ratio Lower Upper
 107 100
 109 87.6 62.4 115.8
 188 3.1 2.3 3.5

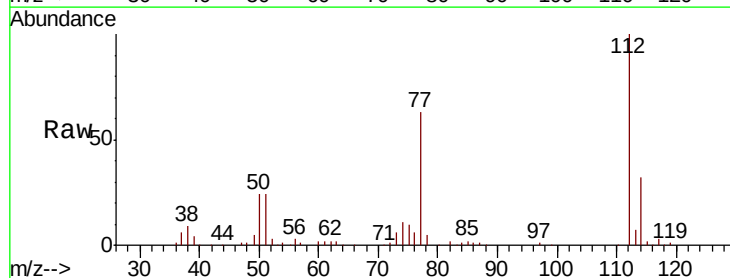


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

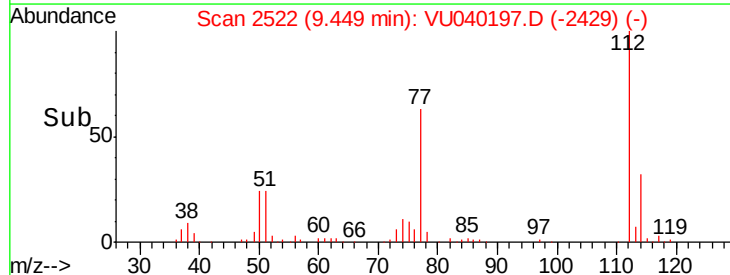
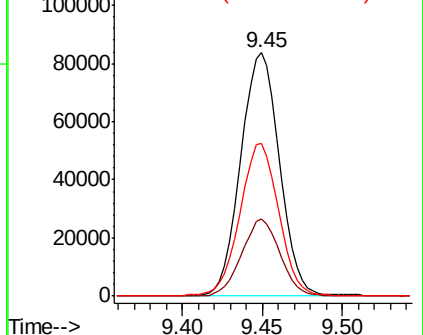


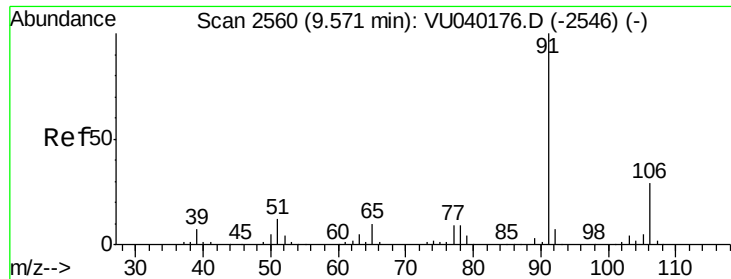
#51
 Chlorobenzene
 Concen: 5.466 ug/L
 RT: 9.45 min Scan# 2522
 Delta R.T. -0.00 min
 Lab File: VU040197.D
 Acq: 17 Sep 2020 21:26

Tgt Ion:112 Resp: 138726
 Ion Ratio Lower Upper
 112 100
 114 31.6 22.7 42.3
 77 62.7 53.2 79.8



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): VU

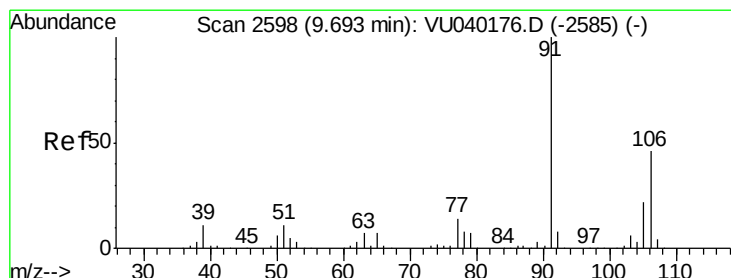
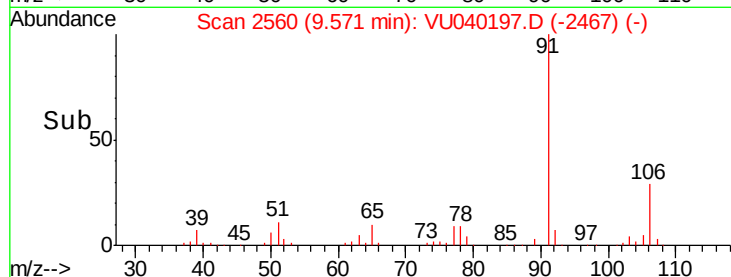
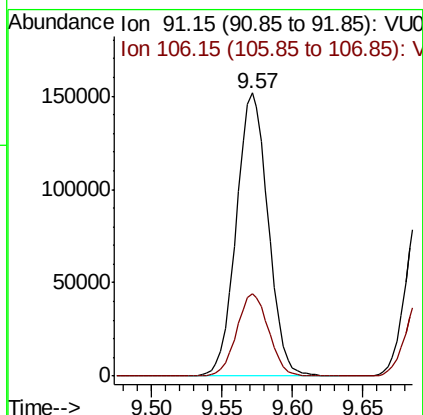
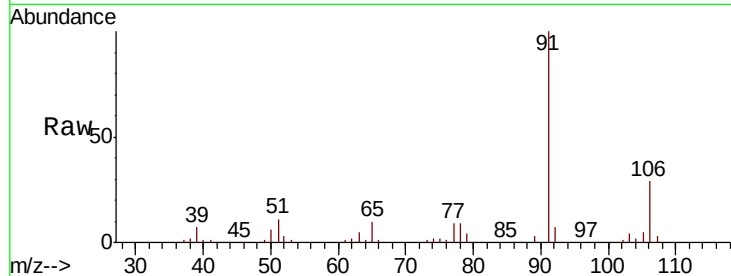




#52
Ethylbenzene
Concen: 5.177 ug/L
RT: 9.57 min Scan# 2560
Delta R.T. -0.00 min
Lab File: VU040197.D
Acq: 17 Sep 2020 21:26

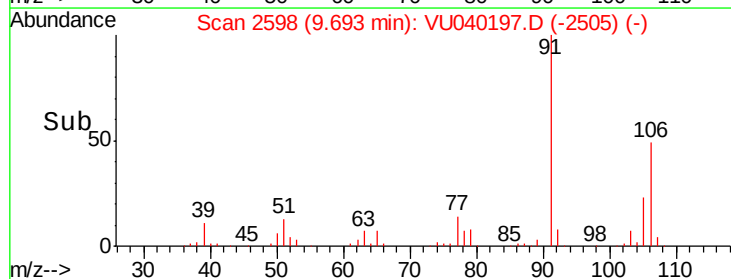
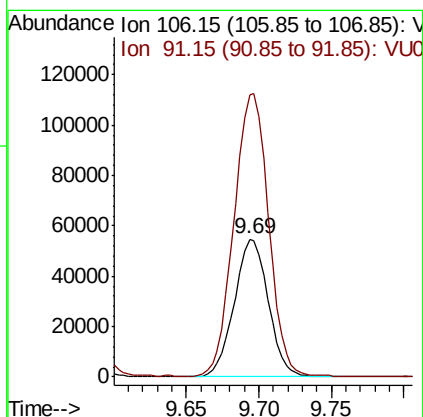
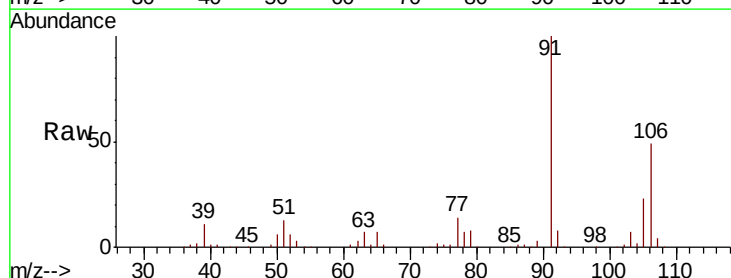
Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

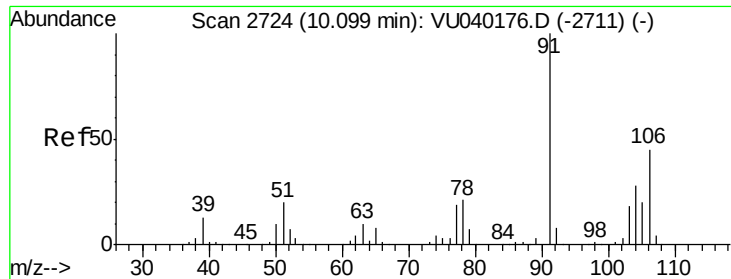
Tot Ion: 91 Resp: 240449
Ion Ratio Lower Upper
91 100
106 29.1 21.0 39.0



#53
m,p-Xylene
Concen: 5.402 ug/L
RT: 9.69 min Scan# 2598
Delta R.T. -0.00 min
Lab File: VU040197.D
Acq: 17 Sep 2020 21:26

Tgt Ion: 106 Resp: 89329
Ion Ratio Lower Upper
106 100
91 204.4 151.7 281.7

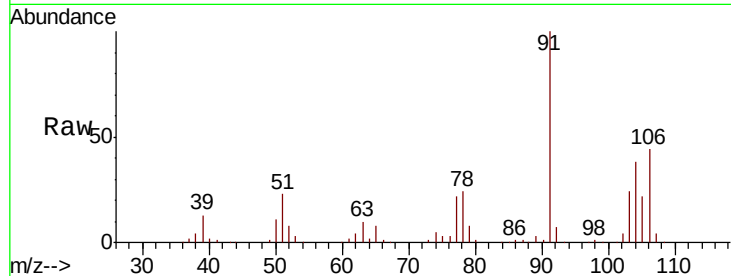




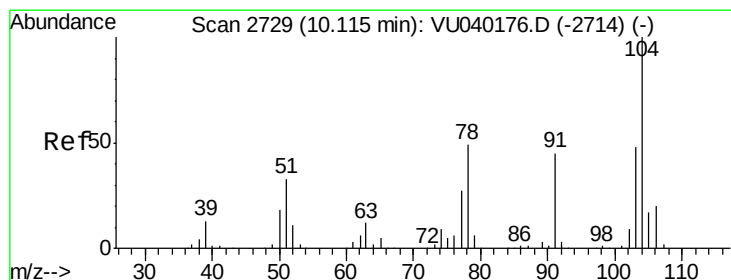
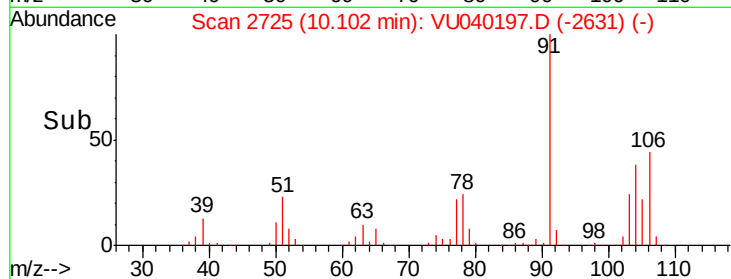
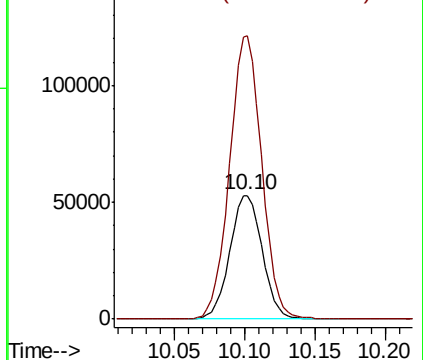
#54
o-Xylene
Concen: 5.407 ug/L
RT: 10.10 min Scan# 2725
Delta R.T. 0.00 min
Lab File: VU040197.D
Acq: 17 Sep 2020 21:26

Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

Tot Ion:106 Resp: 85208
Ion Ratio Lower Upper
106 100
91 229.0 160.8 298.6

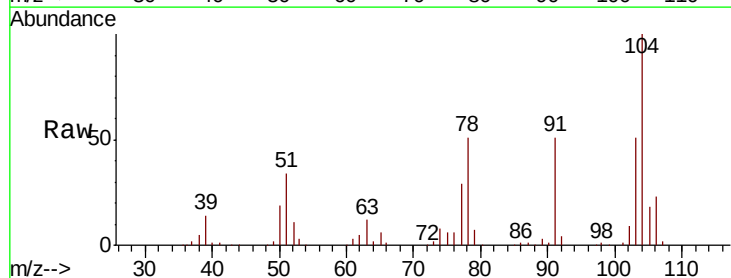


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

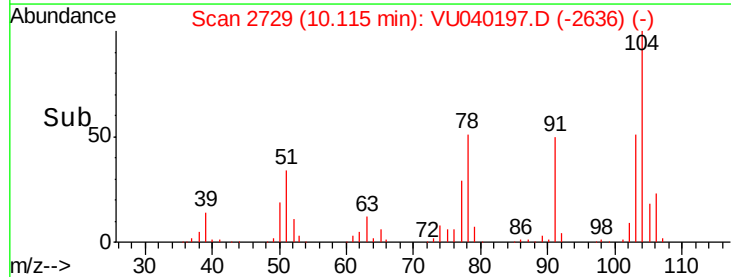
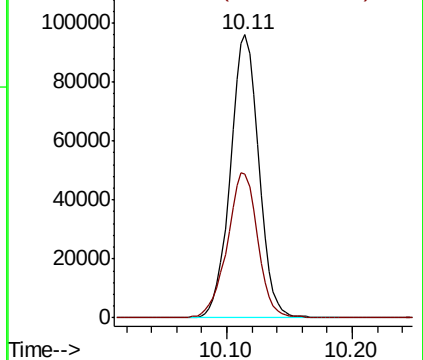


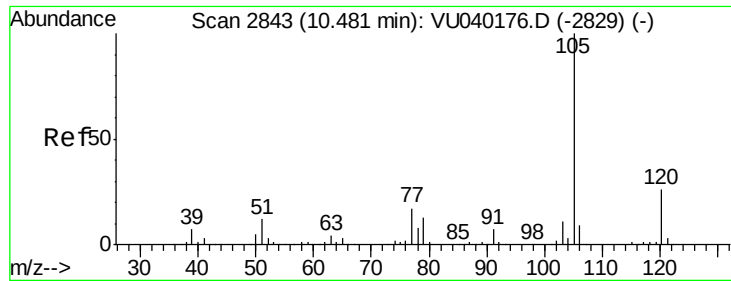
#55
Styrene
Concen: 5.517 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. -0.00 min
Lab File: VU040197.D
Acq: 17 Sep 2020 21:26

Tgt Ion:104 Resp: 151195
Ion Ratio Lower Upper
104 100
78 50.9 36.8 68.3



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





#56

Isopropylbenzene

Concen: 5.389 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. 0.00 min

Lab File: VU040197.D

Acq: 17 Sep 2020 21:26

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

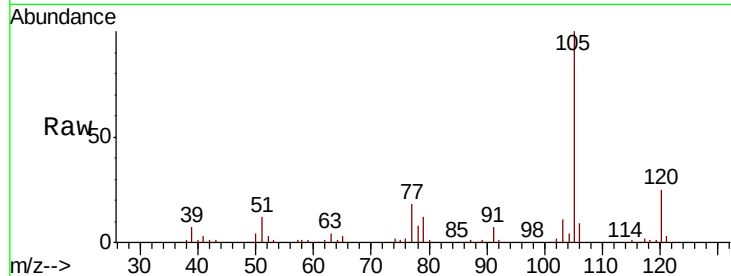
Tot Ion:105 Resp: 231625

Ion Ratio Lower Upper

105 100

120 25.2 20.1 30.1

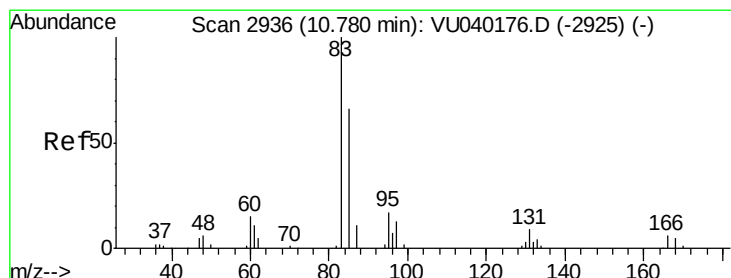
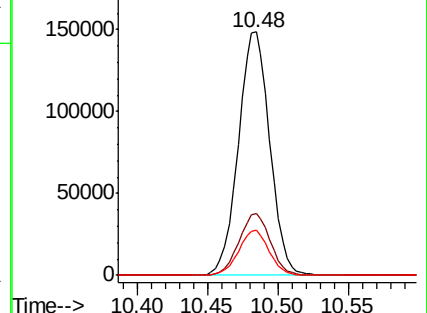
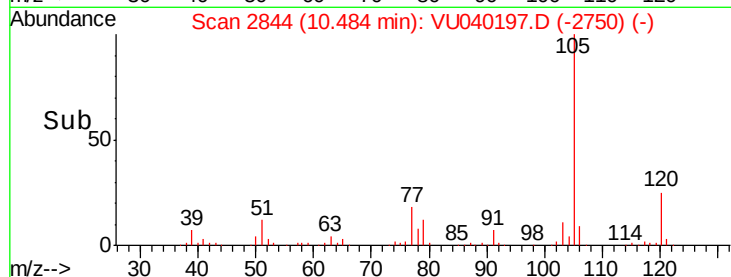
77 17.9 14.4 21.6



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: 4.964 ug/L

RT: 10.78 min Scan# 2936

Delta R.T. -0.00 min

Lab File: VU040197.D

Acq: 17 Sep 2020 21:26

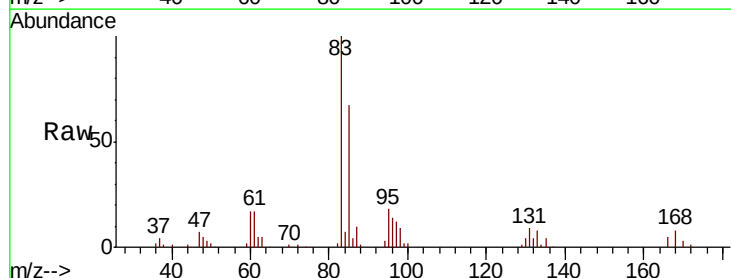
Tgt Ion: 83 Resp: 49841

Ion Ratio Lower Upper

83 100

85 67.4 44.9 83.3

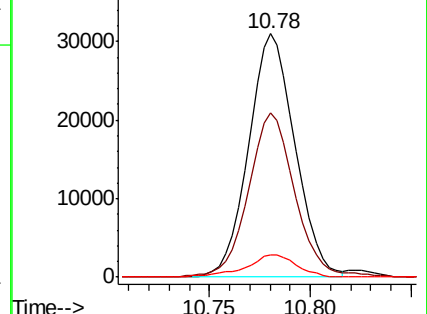
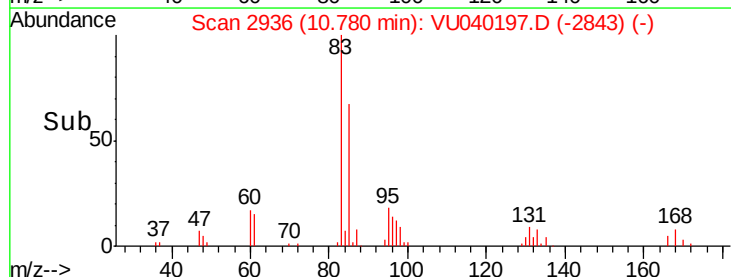
131 9.2 7.4 11.0

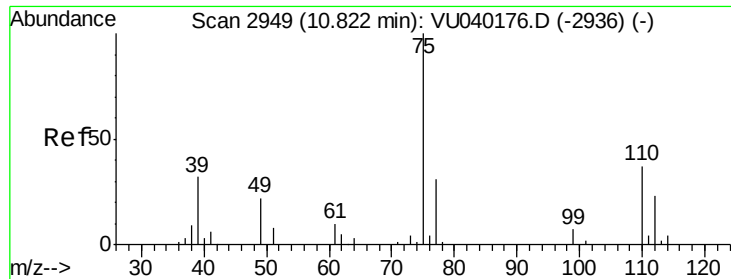


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.748 ug/L

RT: 10.82 min Scan# 2949

Delta R.T. -0.00 min

Lab File: VU040197.D

Acq: 17 Sep 2020 21:26

Instrument :

MSVOA_U

ClientSampleId :

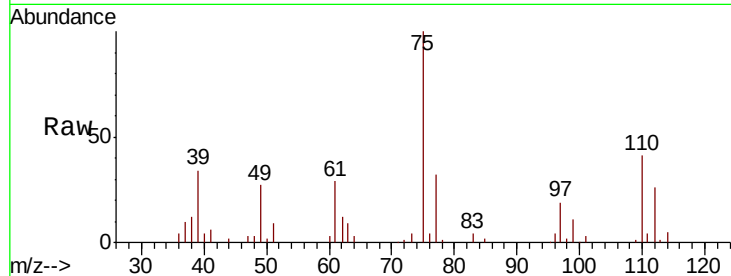
VSTD00512

Tot Ion: 75 Resp: 37812

Ion Ratio Lower Upper

75 100

77 32.1 24.9 37.3



Abundance Ion 75.00 (74.70 to 75.70): VU040197.D (-2327) (-)

Ion 77.00 (76.70 to 77.70): VU040197.D (-2327) (-)

10.82

25000

20000

15000

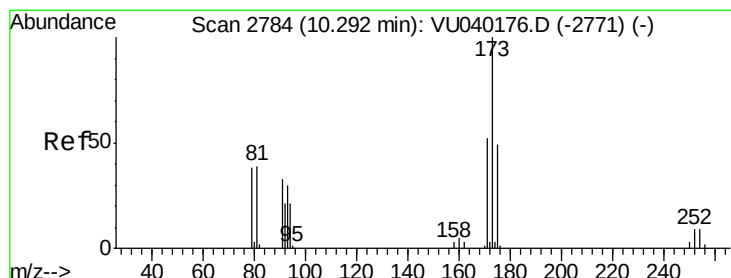
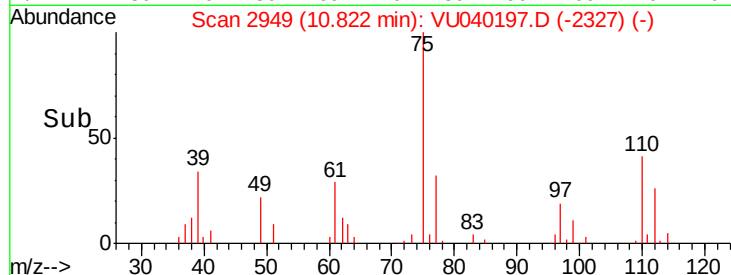
10000

5000

0

Time-->

10.75 10.80 10.85



#61

Bromoform

Concen: 4.670 ug/L

RT: 10.29 min Scan# 2784

Delta R.T. -0.00 min

Lab File: VU040197.D

Acq: 17 Sep 2020 21:26

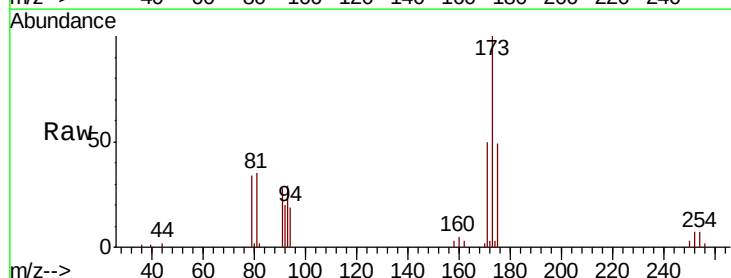
Tgt Ion: 173 Resp: 24187

Ion Ratio Lower Upper

173 100

175 48.8 37.8 56.6

254 7.8 6.8 10.2



Abundance Ion 172.90 (172.60 to 173.60): VU040197.D (-2691) (-)

Ion 174.90 (174.60 to 175.60): VU040197.D (-2691) (-)

Ion 253.75 (253.45 to 254.45): VU040197.D (-2691) (-)

20000

15000

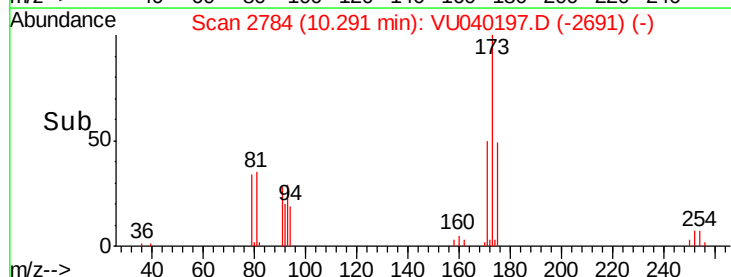
10000

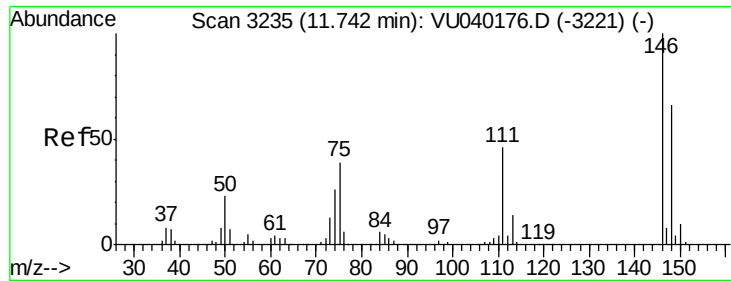
5000

0

Time-->

10.25 10.30 10.35

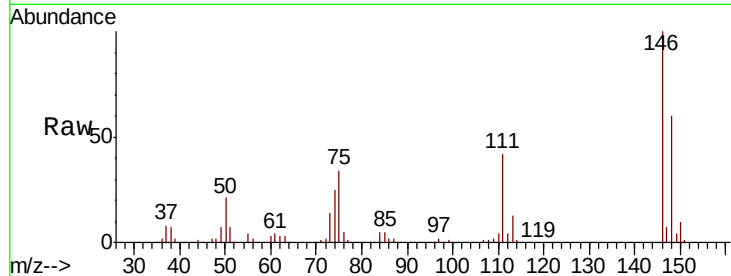




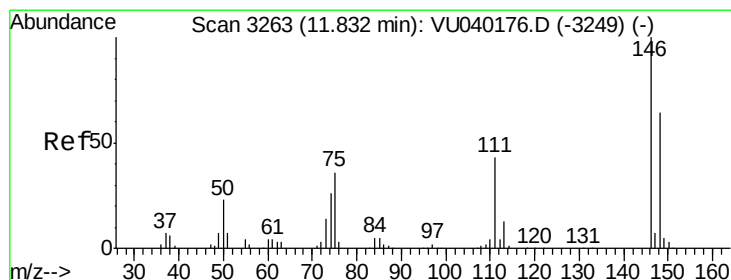
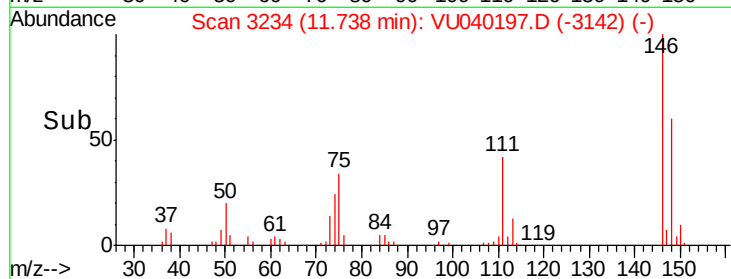
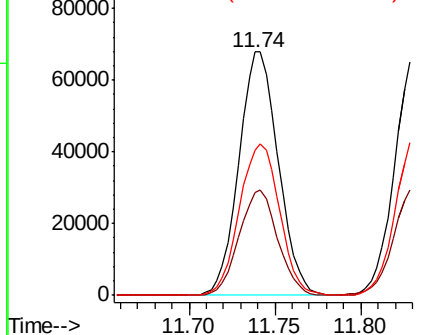
#62
 1,3-Dichlorobenzene
 Concen: 5.230 ug/L
 RT: 11.74 min Scan# 3234
 Delta R.T. -0.00 min
 Lab File: VU040197.D
 Acq: 17 Sep 2020 21:26

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

Tot Ion:146 Resp: 107939
 Ion Ratio Lower Upper
 146 100
 111 42.1 31.6 58.8
 148 59.8 44.2 82.0

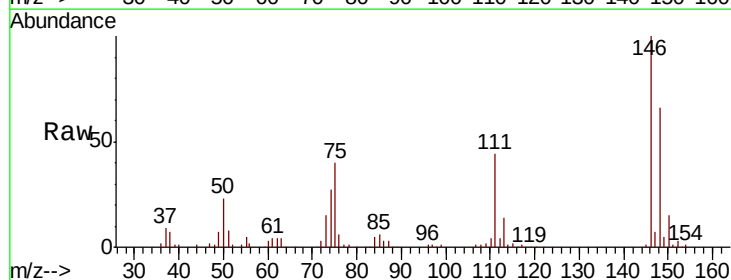


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

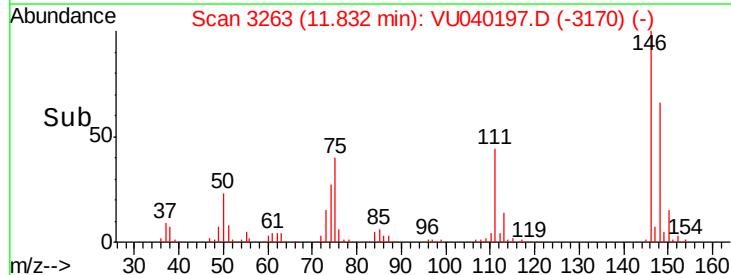
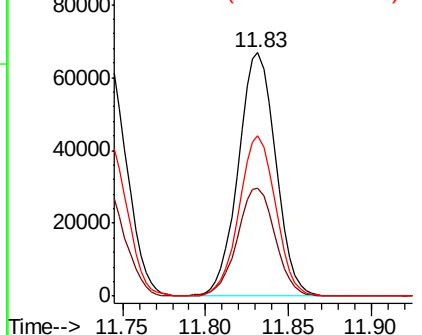


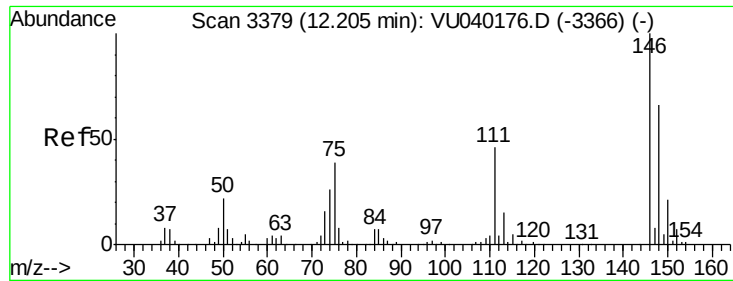
#63
 1,4-Dichlorobenzene
 Concen: 5.030 ug/L
 RT: 11.83 min Scan# 3263
 Delta R.T. -0.00 min
 Lab File: VU040197.D
 Acq: 17 Sep 2020 21:26

Tgt Ion:146 Resp: 105045
 Ion Ratio Lower Upper
 146 100
 111 44.3 30.5 56.7
 148 65.8 45.4 84.4



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

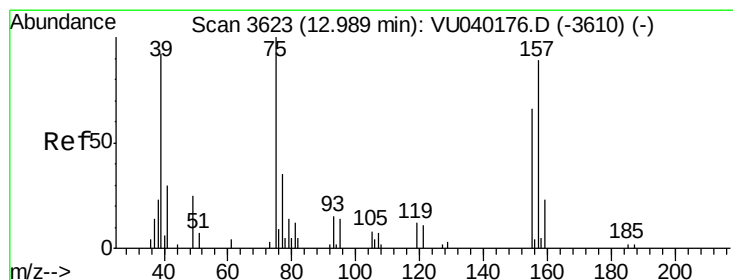
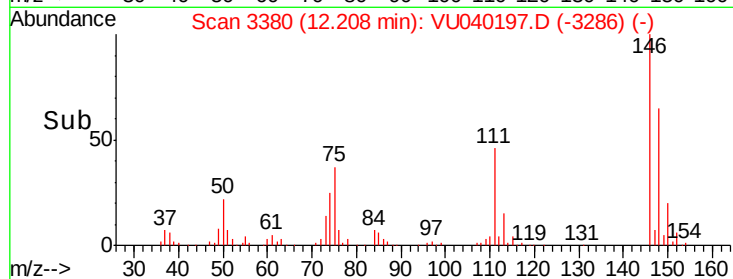
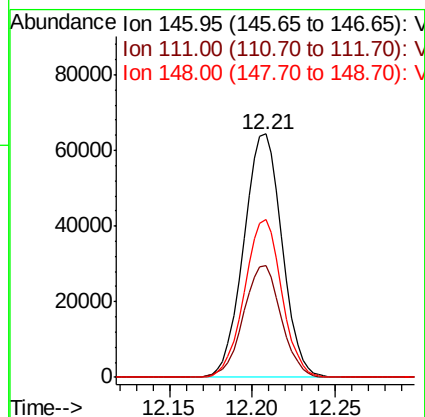
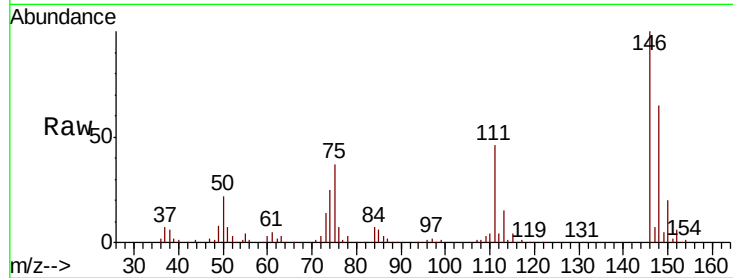




#65
 1,2-Dichlorobenzene
 Concen: 5.165 ug/L
 RT: 12.21 min Scan# 3380
 Delta R.T. 0.00 min
 Lab File: VU040197.D
 Acq: 17 Sep 2020 21:26

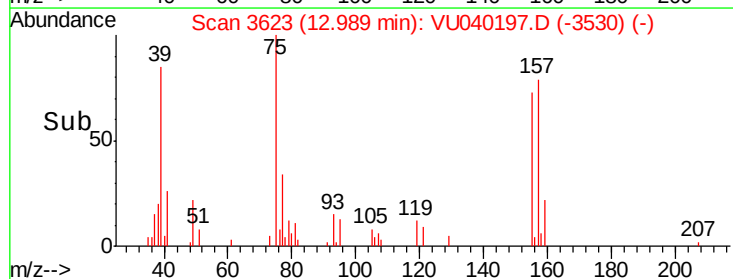
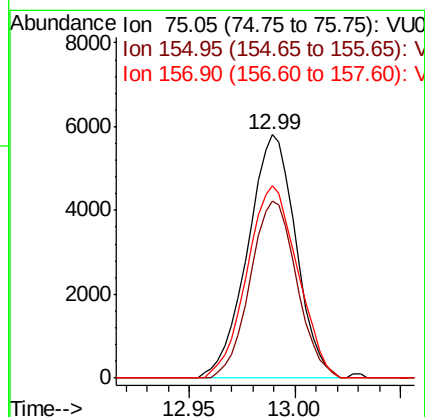
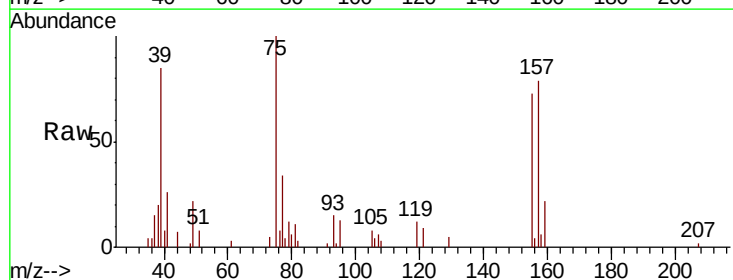
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

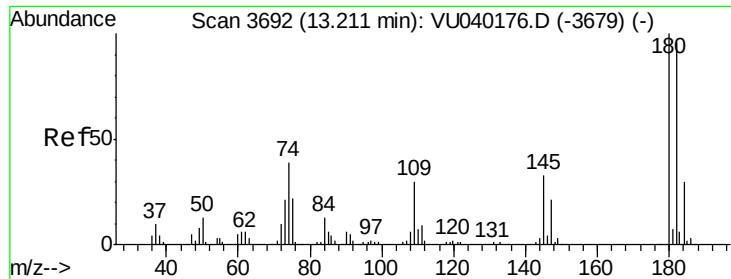
Tot Ion:146 Resp: 103155
 Ion Ratio Lower Upper
 146 100
 111 45.7 36.5 54.7
 148 64.6 48.6 72.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.326 ug/L
 RT: 12.99 min Scan# 3623
 Delta R.T. -0.00 min
 Lab File: VU040197.D
 Acq: 17 Sep 2020 21:26

Tgt Ion: 75 Resp: 9239
 Ion Ratio Lower Upper
 75 100
 155 72.8 54.6 82.0
 157 79.1 75.6 113.4

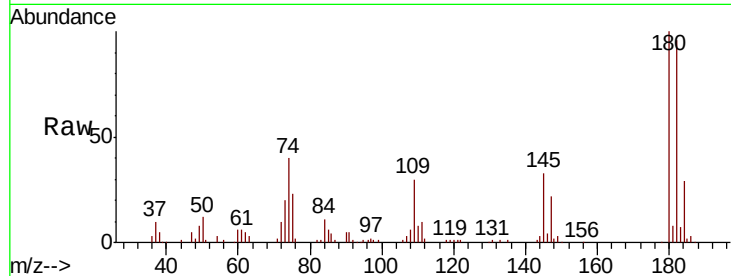




#67
 1,3,5-Trichlorobenzene
 Concen: 4.888 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. -0.00 min
 Lab File: VU040197.D
 Acq: 17 Sep 2020 21:26

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.9	115.3
184	29.4	24.6	36.8
145	33.9	27.0	40.6



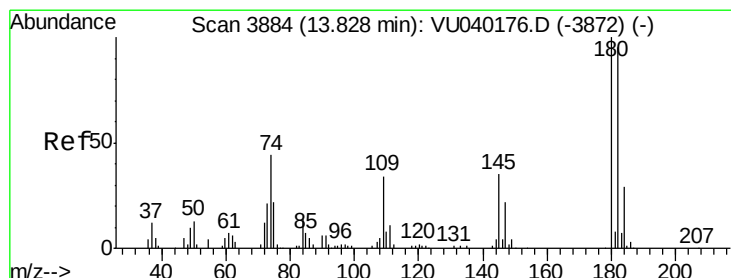
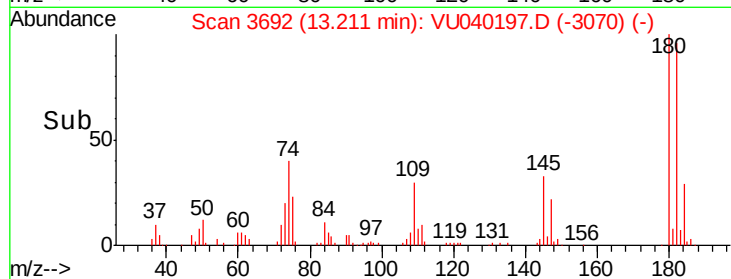
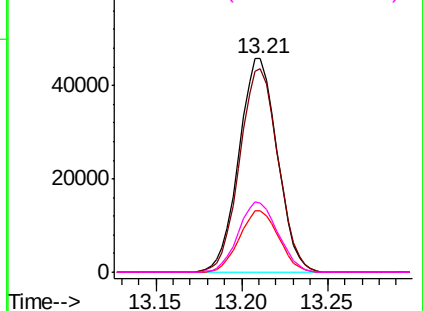
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

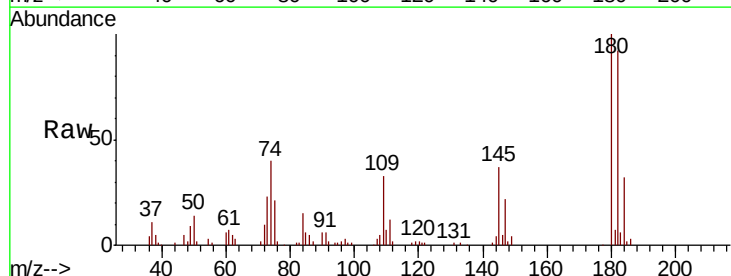
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.693 ug/L
 RT: 13.83 min Scan# 3884
 Delta R.T. -0.00 min
 Lab File: VU040197.D
 Acq: 17 Sep 2020 21:26

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.7	76.0	114.0
145	35.6	28.4	42.6

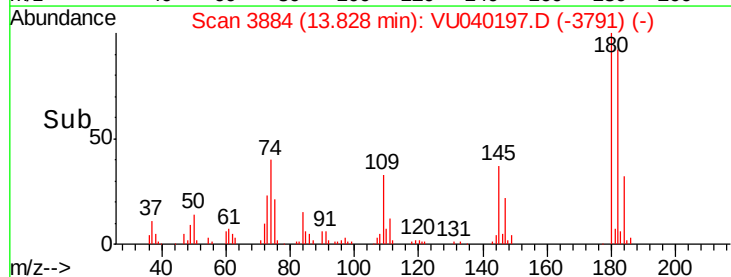
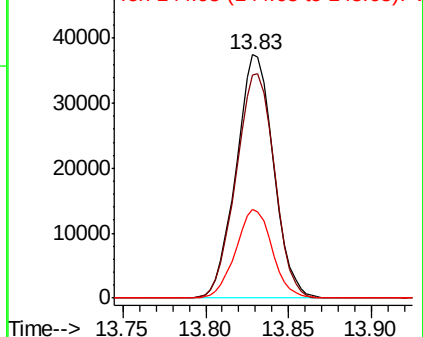


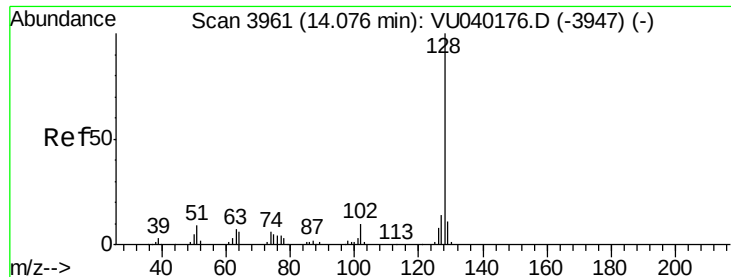
Abundance

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: 4.041 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. -0.00 min

Lab File: VU040197.D

Acq: 17 Sep 2020 21:26

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

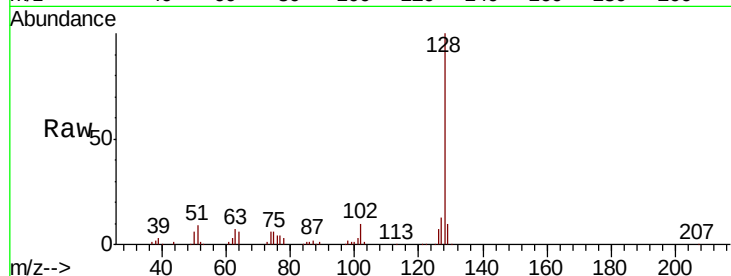
Tot Ion:128 Resp: 105296

Ion Ratio Lower Upper

128 100

129 10.2 8.7 13.1

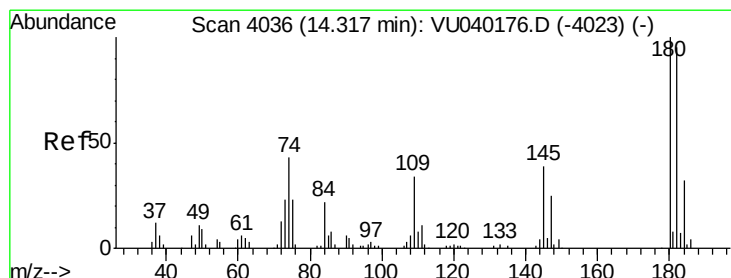
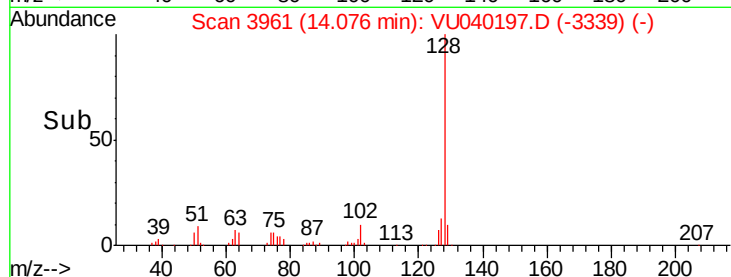
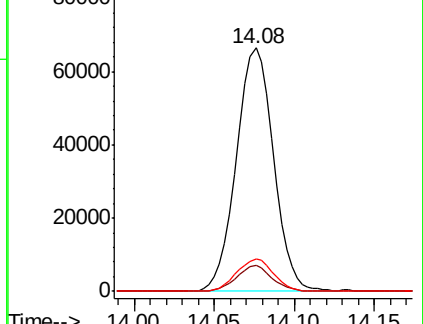
127 13.2 10.7 16.1



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: 4.847 ug/L

RT: 14.32 min Scan# 4036

Delta R.T. -0.00 min

Lab File: VU040197.D

Acq: 17 Sep 2020 21:26

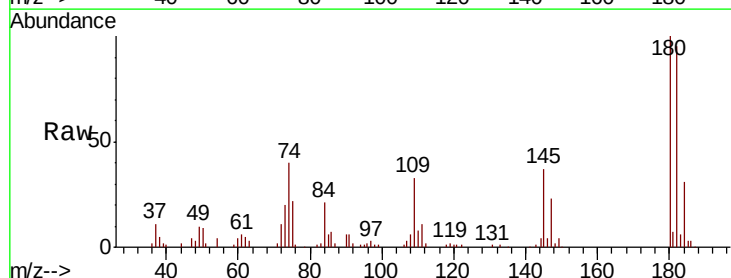
Tgt Ion:180 Resp: 55658

Ion Ratio Lower Upper

180 100

182 93.5 77.8 116.6

145 36.4 28.7 43.1



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

