

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121520\
 Data File : VU041640.D
 Acq On : 15 Dec 2020 16:37
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00517

Quant Time: Dec 16 02:47:48 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Dec 16 02:41:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	125187	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	119823	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	62128	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	44627	4.56	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	91.20%
7) Chloroethane-d5	1.92	69	37528	4.95	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	99.00%
11) 1,1-Dichloroethene-d2	2.58	63	85754	4.76	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	95.20%
20) 2-Butanone-d5	4.67	46	139632	49.67	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	99.34%
24) Chloroform-d	5.08	84	82703	4.93	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.60%
26) 1,2-Dichloroethane-d4	5.72	65	46758	4.92	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.40%
32) Benzene-d6	5.74	84	159628	4.65	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.00%
36) 1,2-Dichloropropane-d6	6.70	67	48001	4.46	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	89.20%
41) Toluene-d8	7.91	98	151115	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.60%
43) trans-1,3-Dichloropropene-	8.19	79	22118	4.57	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.40%
46) 2-Hexanone-d5	8.64	63	126680	47.91	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	95.82%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	50390	5.16	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	103.20%
64) 1,2-Dichlorobenzene-d4	12.19	152	53188	4.81	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	54297	5.120	ug/L 98
3) Chloromethane	1.53	50	50930	4.943	ug/L 96
5) Vinyl chloride	1.61	62	57646	5.067	ug/L 97
6) Bromomethane	1.87	94	38841	5.460	ug/L 99
8) Chloroethane	1.94	64	34909	4.517	ug/L 98
9) Trichlorofluoromethane	2.15	101	80587	5.596	ug/L 96
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	46162	5.360	ug/L 96
12) 1,1-Dichloroethene	2.59	96	44384	5.226	ug/L 92
13) Acetone	2.68	43	76077	42.543	ug/L 60
14) Carbon disulfide	2.81	76	140354	4.782	ug/L 100
15) Methyl Acetate	2.98	43	19428	4.179	ug/L 95
16) Methylene chloride	3.06	84	50583	4.987	ug/L 93
17) Methyl tert-butyl Ether	3.38	73	115766	5.109	ug/L 98
18) trans-1,2-Dichloroethene	3.37	96	43834	4.990	ug/L 96
19) 1,1-Dichloroethane	3.89	63	80301	4.891	ug/L 97
21) 2-Butanone	4.75	43	144953	49.765	ug/L 100
22) cis-1,2-Dichloroethene	4.69	96	47441	4.887	ug/L 97

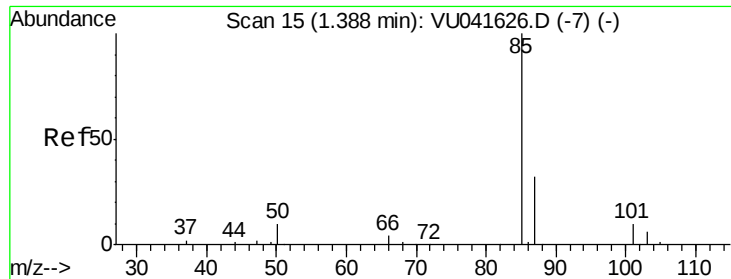
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121520\
 Data File : VU041640.D
 Acq On : 15 Dec 2020 16:37
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
 VSTD00517

Quant Time: Dec 16 02:47:48 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Dec 16 02:41:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.00	128	23668	5.307	ug/L	92
25) Chloroform	5.11	83	84676	5.122	ug/L	96
27) 1,2-Dichloroethane	5.81	62	58612	5.235	ug/L	97
29) 1,1,1-Trichloroethane	5.33	97	72800	5.291	ug/L	99
30) Cyclohexane	5.41	56	68557	4.445	ug/L	92
31) Carbon tetrachloride	5.54	117	62933	5.289	ug/L	99
33) Benzene	5.79	78	186320	4.862	ug/L	100
34) Trichloroethene	6.56	95	47851	4.969	ug/L	96
35) Methylcyclohexane	6.77	83	75741	4.866	ug/L	99
37) 1,2-Dichloropropane	6.80	63	47683	4.865	ug/L	100
38) Bromodichloromethane	7.11	83	62424	5.119	ug/L	98
39) cis-1,3-Dichloropropene	7.62	75	69718	4.800	ug/L	97
40) 4-Methyl-2-pentanone	7.80	43	341074	48.901	ug/L	97
42) Toluene	7.98	91	201116	5.083	ug/L	99
44) trans-1,3-Dichloropropene	8.21	75	64721	4.983	ug/L	97
45) 1,1,2-Trichloroethane	8.41	97	37718	5.203	ug/L	96
47) Tetrachloroethene	8.56	164	36778	5.456	ug/L	94
48) 2-Hexanone	8.69	43	257415	50.712	ug/L	98
49) Dibromochloromethane	8.82	129	45936	5.517	ug/L	98
50) 1,2-Dibromoethane	8.93	107	37117	5.176	ug/L	93
51) Chlorobenzene	9.45	112	124124	5.047	ug/L	97
52) Ethylbenzene	9.57	91	206642	4.905	ug/L	100
53) m,p-Xylene	9.69	106	79416	5.054	ug/L	99
54) o-Xylene	10.10	106	77110	5.011	ug/L	96
55) Styrene	10.11	104	132111	4.970	ug/L	98
56) Isopropylbenzene	10.48	105	205214	5.010	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.78	83	52987	5.253	ug/L	96
59) 1,2,3-Trichloropropane	10.82	75	40266	5.470	ug/L	99
61) Bromoform	10.29	173	26926	5.733	ug/L	98
62) 1,3-Dichlorobenzene	11.74	146	96563	5.082	ug/L	96
63) 1,4-Dichlorobenzene	11.83	146	95063	4.976	ug/L	99
65) 1,2-Dichlorobenzene	12.21	146	94080	5.056	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.99	75	8857	5.076	ug/L	86
67) 1,3,5-Trichlorobenzene	13.21	180	69174	4.796	ug/L	99
68) 1,2,4-trichlorobenzene	13.83	180	52750	4.358	ug/L	98
69) Naphthalene	14.07	128	102628	4.096	ug/L	99
70) 1,2,3-Trichlorobenzene	14.32	180	52674	4.566	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 5.120 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU041640.D

Acq: 15 Dec 2020 16:37

Instrument :

MSVOA_U

ClientSampleId :

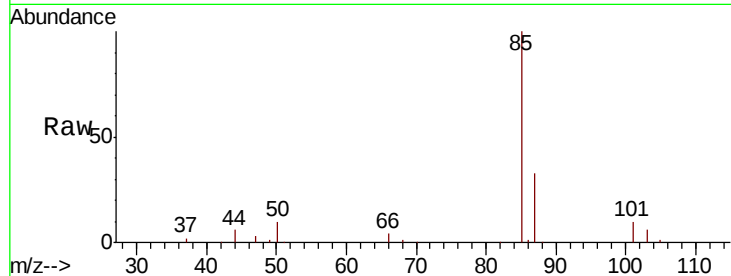
VSTD00517

Tot Ion: 85 Resp: 54297

Ion Ratio Lower Upper

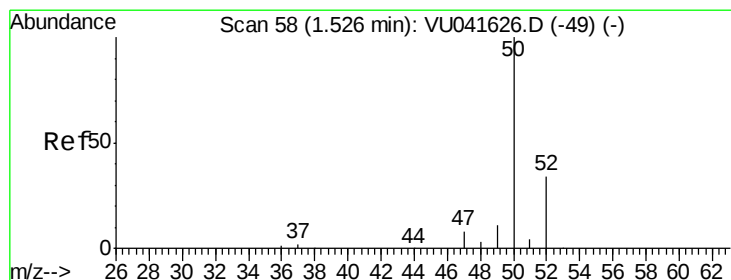
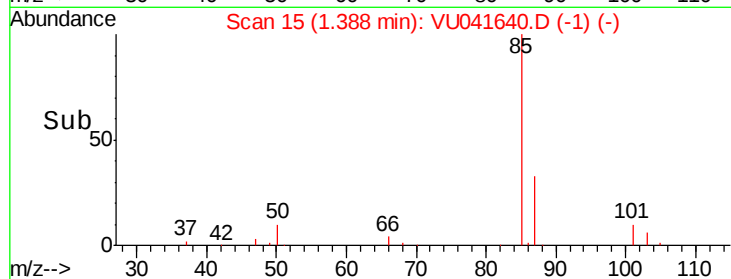
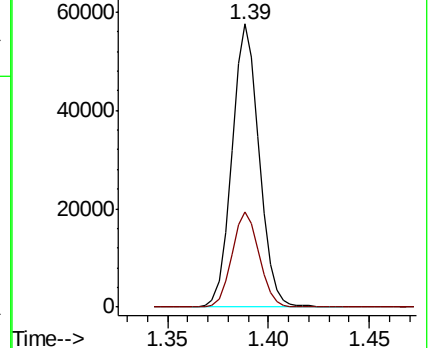
85 100

87 33.5 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VU041626.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VU041626.D (-7) (-)



#3

Chloromethane

Concen: 4.943 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU041640.D

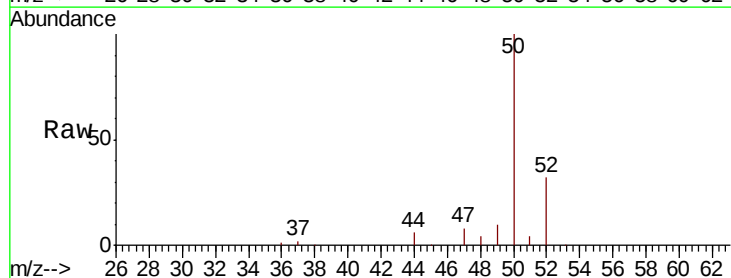
Acq: 15 Dec 2020 16:37

Tgt Ion: 50 Resp: 50930

Ion Ratio Lower Upper

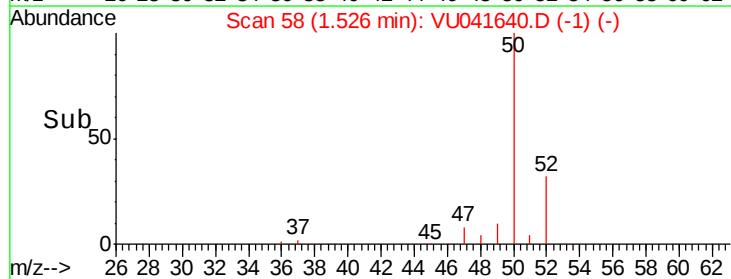
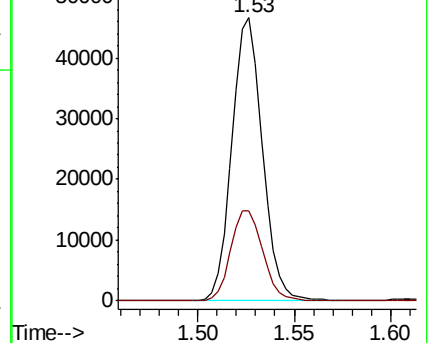
50 100

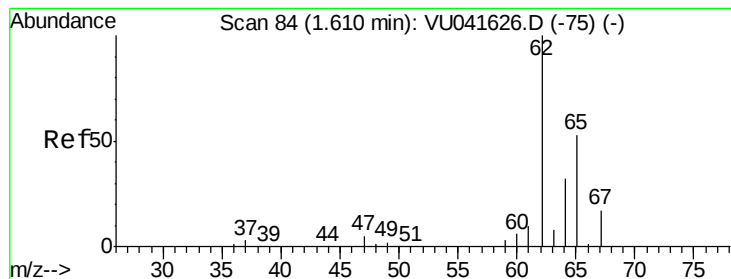
52 32.0 24.1 44.8



Abundance Ion 50.05 (49.75 to 50.75): VU041626.D (-49) (-)

Ion 52.05 (51.75 to 52.75): VU041626.D (-49) (-)





#5

Vinyl chloride

Concen: 5.067 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU041640.D

Acq: 15 Dec 2020 16:37

Instrument :

MSVOA_U

ClientSampleId :

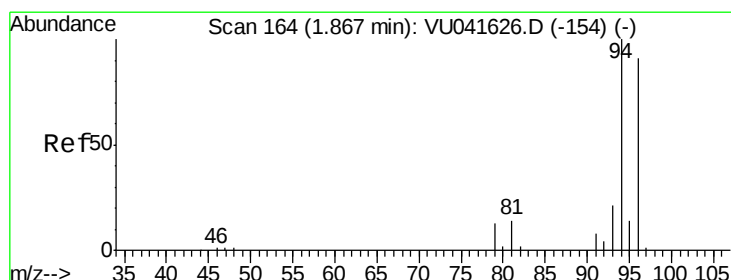
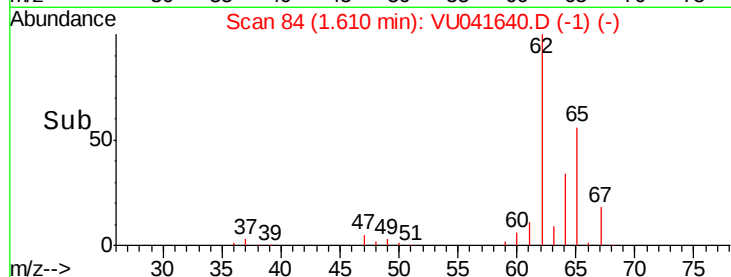
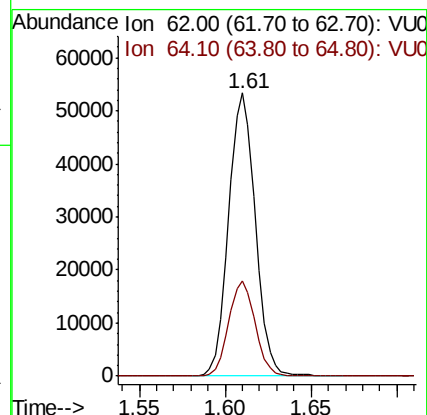
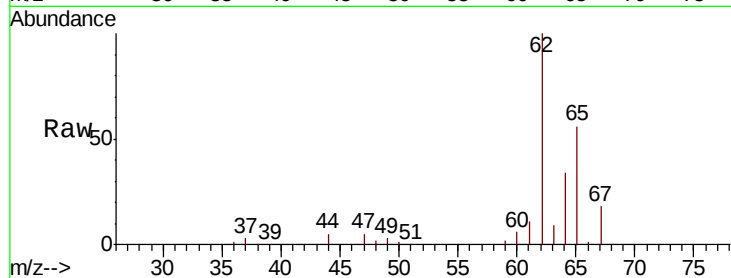
VSTD00517

Tot Ion: 62 Resp: 57646

Ion Ratio Lower Upper

62 100

64 33.5 22.5 41.7



#6

Bromomethane

Concen: 5.460 ug/L

RT: 1.87 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU041640.D

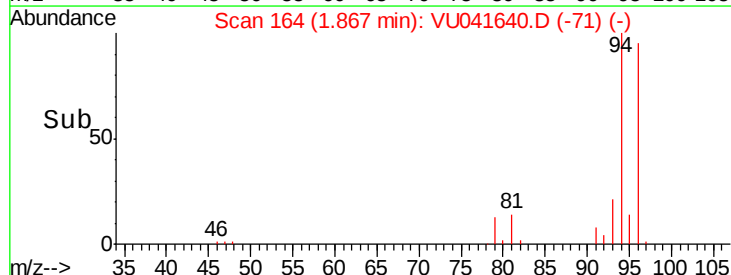
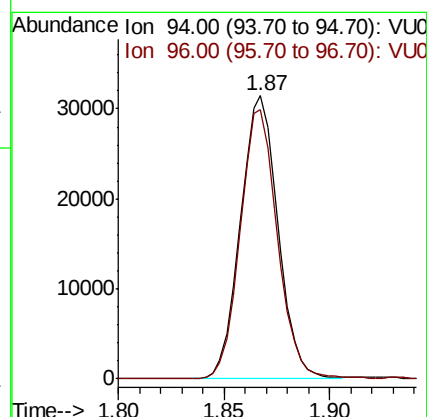
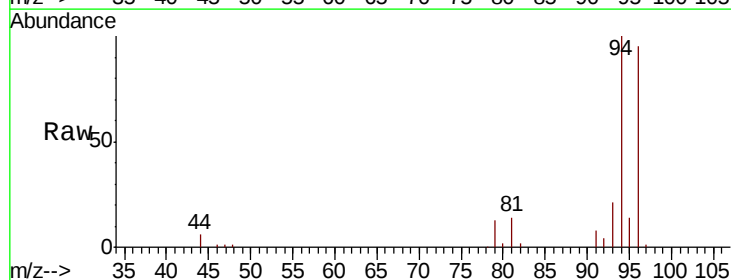
Acq: 15 Dec 2020 16:37

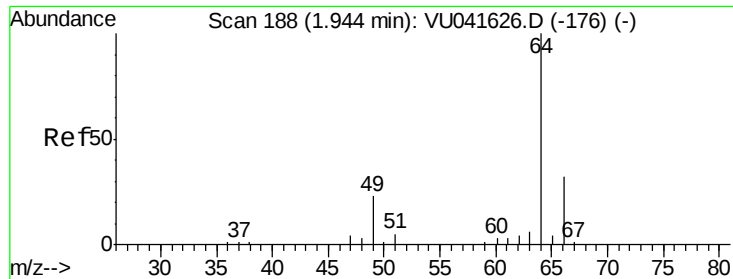
Tgt Ion: 94 Resp: 38841

Ion Ratio Lower Upper

94 100

96 95.1 65.7 121.9

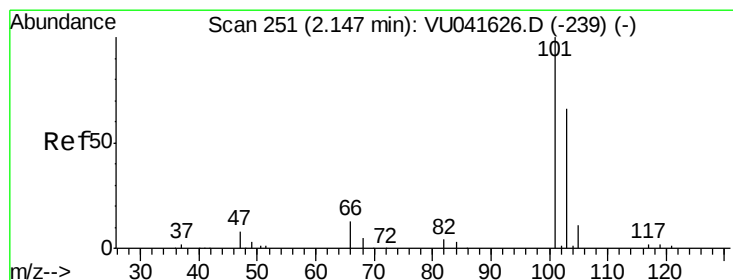
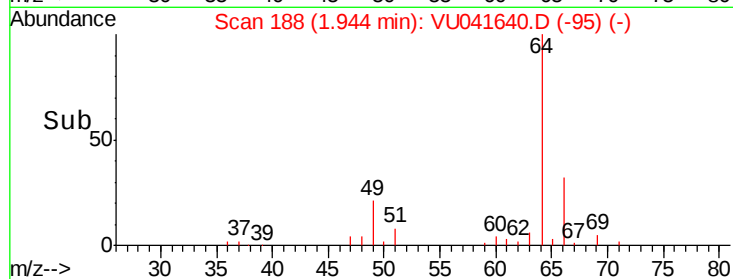
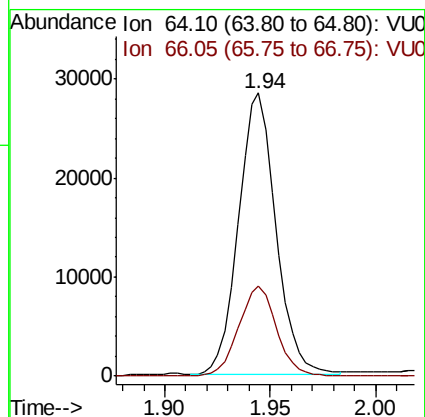
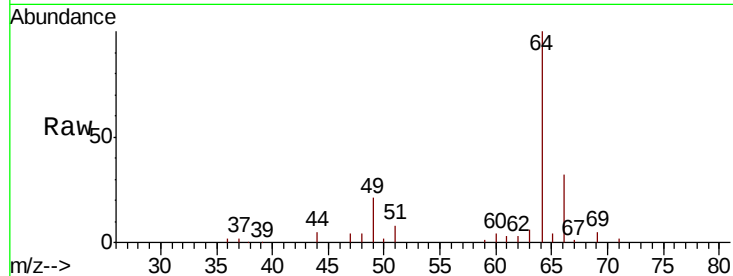




#8
Chloroethane
Concen: 4.517 ug/L
RT: 1.94 min Scan# 188
Delta R.T. 0.00 min
Lab File: VU041640.D
Acq: 15 Dec 2020 16:37

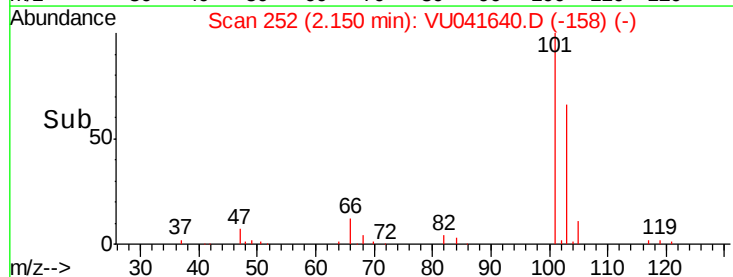
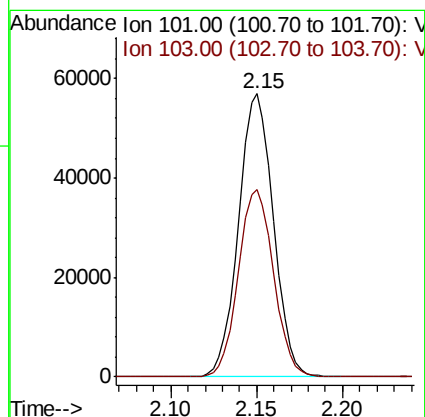
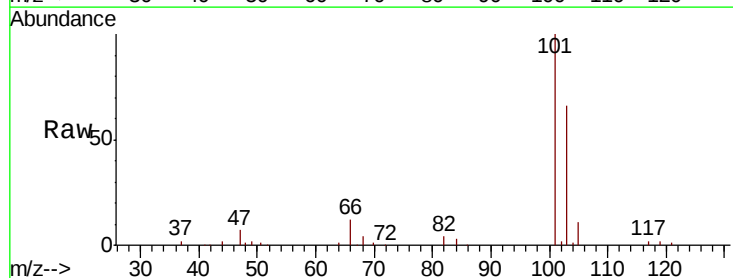
Instrument :
MSVOA_U
ClientSampleId :
VSTD00517

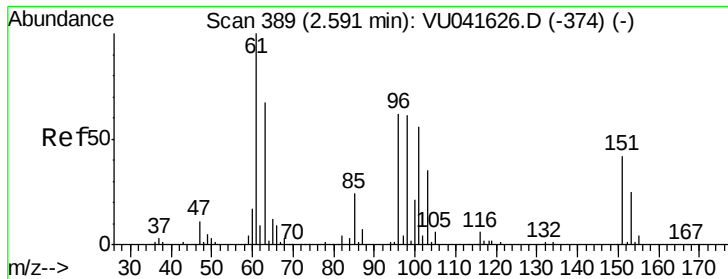
Tot Ion: 64 Resp: 34909
Ion Ratio Lower Upper
64 100
66 31.8 21.6 40.0



#9
Trichlorofluoromethane
Concen: 5.596 ug/L
RT: 2.15 min Scan# 252
Delta R.T. 0.00 min
Lab File: VU041640.D
Acq: 15 Dec 2020 16:37

Tgt Ion: 101 Resp: 80587
Ion Ratio Lower Upper
101 100
103 66.9 51.1 76.7





#10

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

Concen: 5.360 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU041640.D

Acq: 15 Dec 2020 16:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD00517

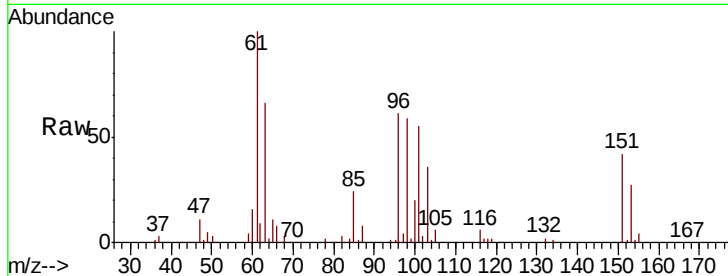
Tot Ion:101 Resp: 46162

Ion Ratio Lower Upper

101 100

85 42.5 33.6 50.4

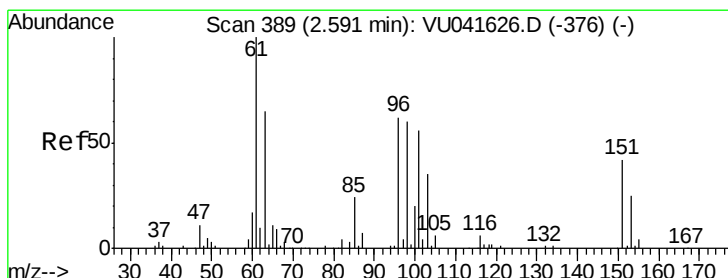
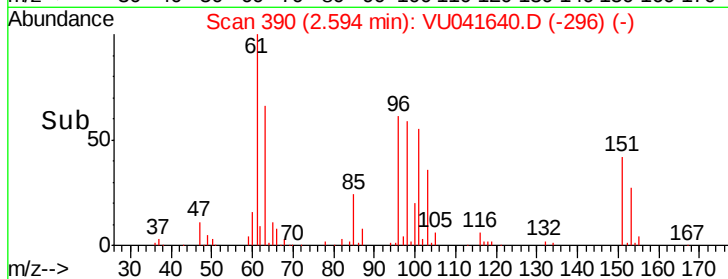
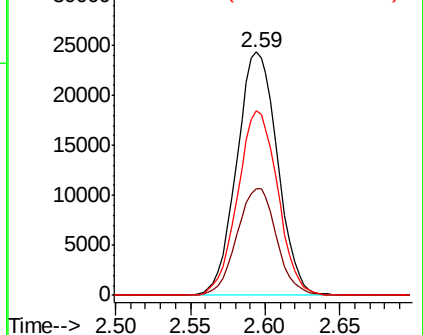
151 74.7 56.2 84.4



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: 5.226 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU041640.D

Acq: 15 Dec 2020 16:37

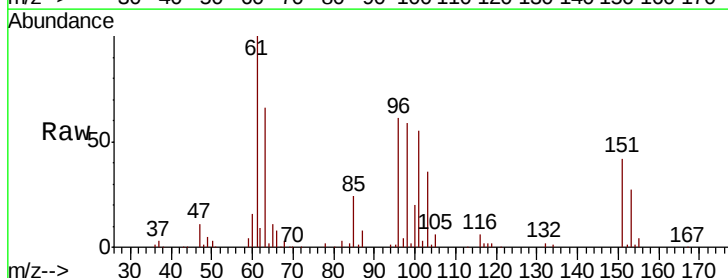
Tgt Ion: 96 Resp: 44384

Ion Ratio Lower Upper

96 100

61 163.8 123.8 230.0

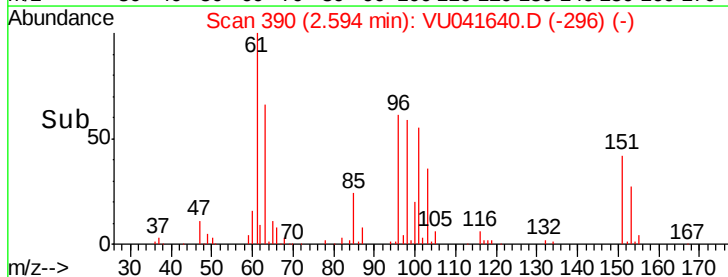
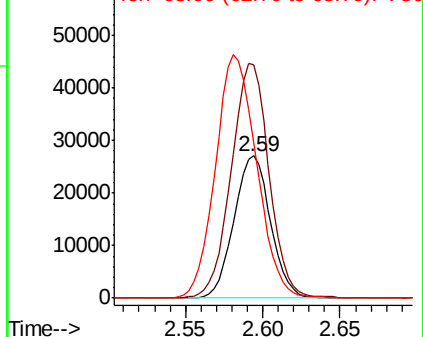
63 108.9 81.0 150.4

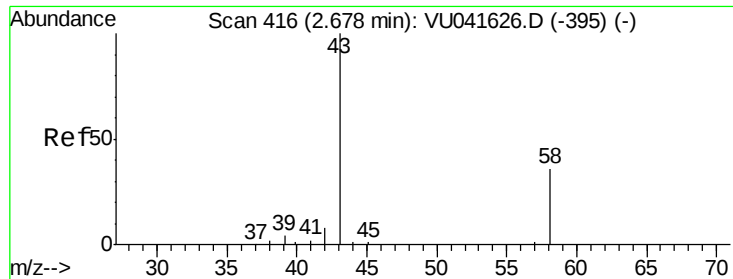


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 42.543 ug/L

RT: 2.68 min Scan# 416

Delta R.T. 0.00 min

Lab File: VU041640.D

Acq: 15 Dec 2020 16:37

Instrument :

MSVOA_U

ClientSampleId :

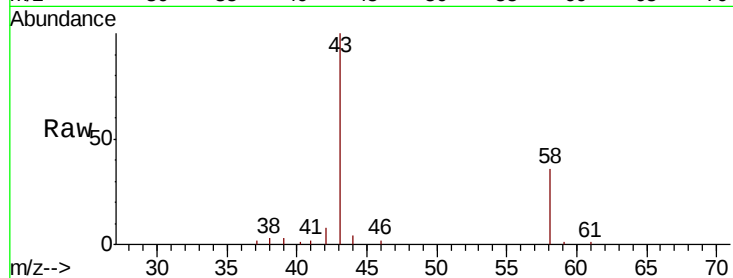
VSTD00517

Tot Ion: 43 Resp: 76077

Ion Ratio Lower Upper

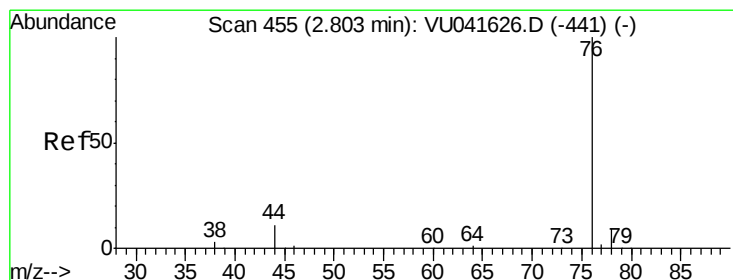
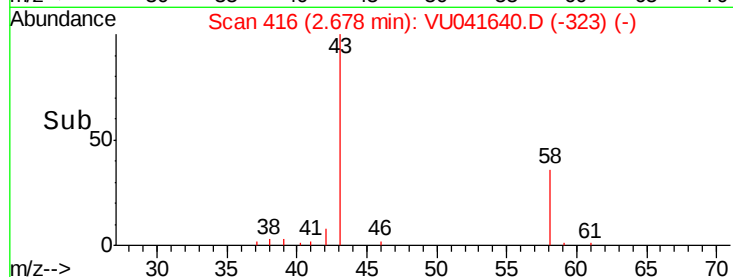
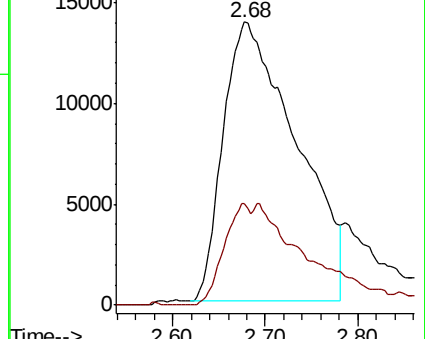
43 100

58 12.9 0.0 73.2



Abundance Ion 43.05 (42.75 to 43.75): VU041626.D (-395) (-)

Ion 58.05 (57.75 to 58.75): VU041626.D (-395) (-)



#14

Carbon disulfide

Concen: 4.782 ug/L

RT: 2.81 min Scan# 456

Delta R.T. 0.00 min

Lab File: VU041640.D

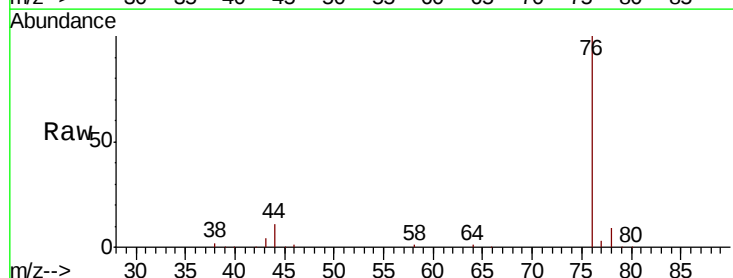
Acq: 15 Dec 2020 16:37

Tgt Ion: 76 Resp: 140354

Ion Ratio Lower Upper

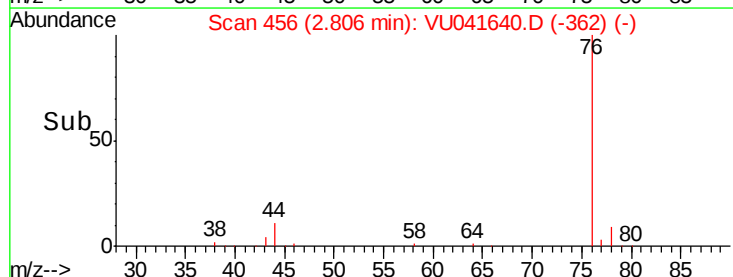
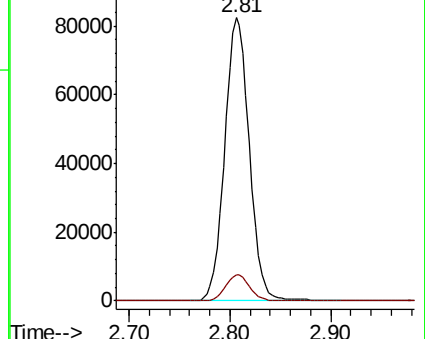
76 100

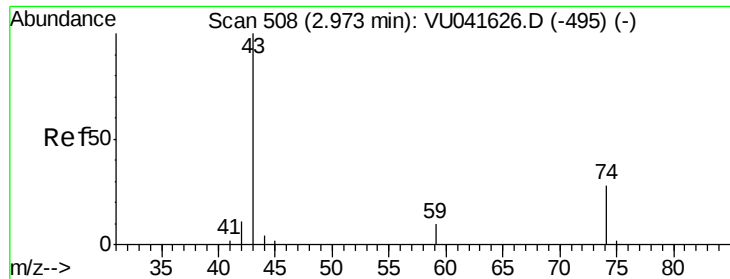
78 9.2 7.4 11.2



Abundance Ion 76.05 (75.75 to 76.75): VU041626.D (-441) (-)

Ion 78.00 (77.70 to 78.70): VU041626.D (-441) (-)

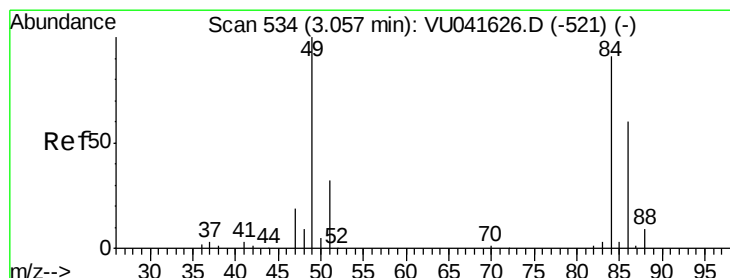
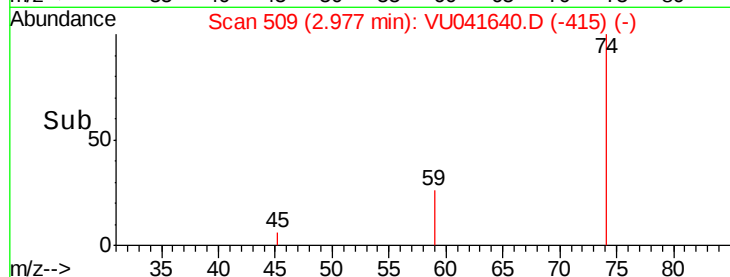
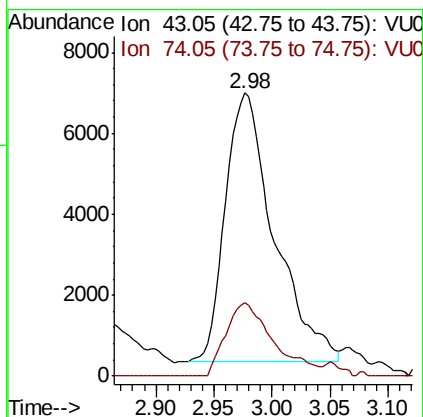
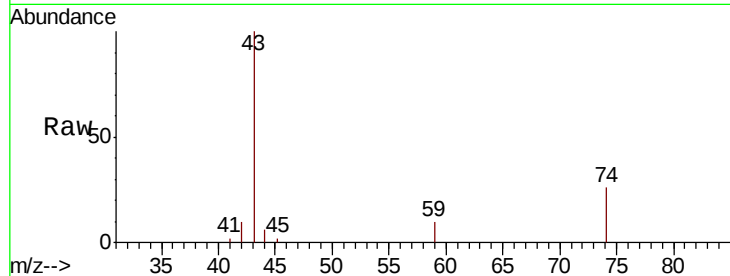




#15
Methvl Acetate
Concen: 4.179 ug/L
RT: 2.98 min Scan# 509
Delta R.T. 0.00 min
Lab File: VU041640.D
Acq: 15 Dec 2020 16:37

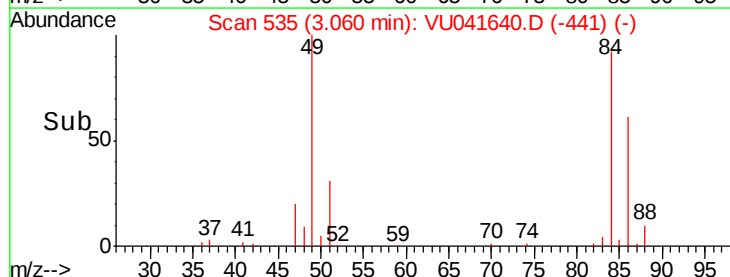
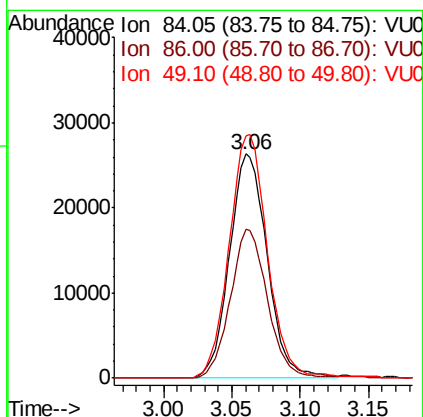
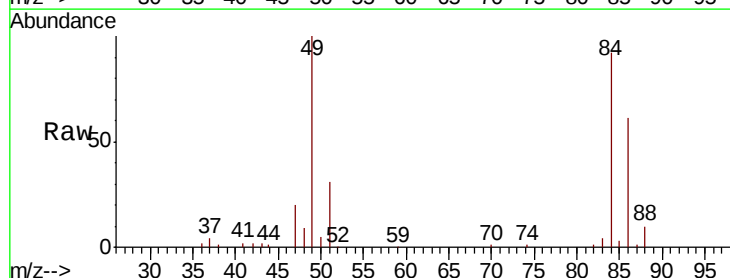
Instrument :
MSVOA_U
ClientSampleId :
VSTD00517

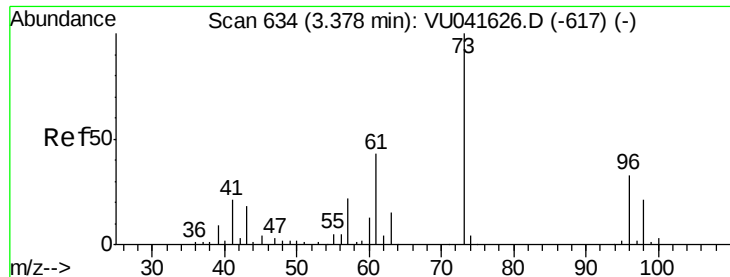
Tot Ion: 43 Resp: 19428
Ion Ratio Lower Upper
43 100
74 26.6 19.2 28.8



#16
Methylene chloride
Concen: 4.987 ug/L
RT: 3.06 min Scan# 535
Delta R.T. 0.00 min
Lab File: VU041640.D
Acq: 15 Dec 2020 16:37

Tgt Ion: 84 Resp: 50583
Ion Ratio Lower Upper
84 100
86 66.4 45.1 83.7
49 108.4 83.1 154.3

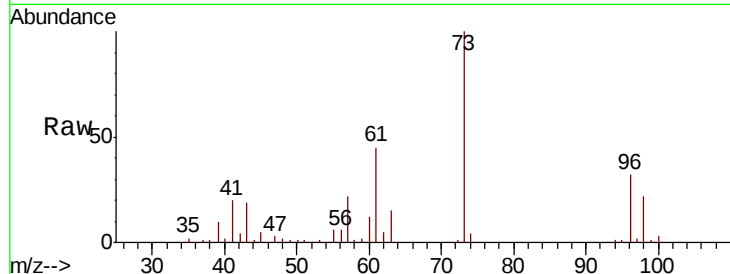




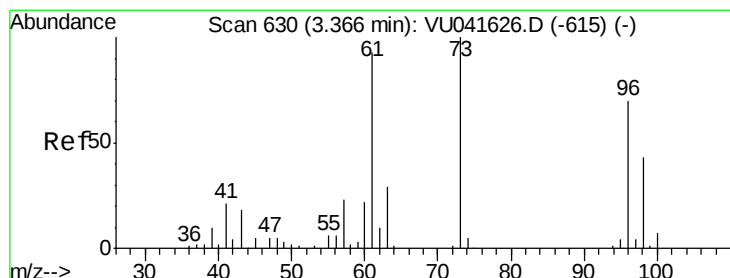
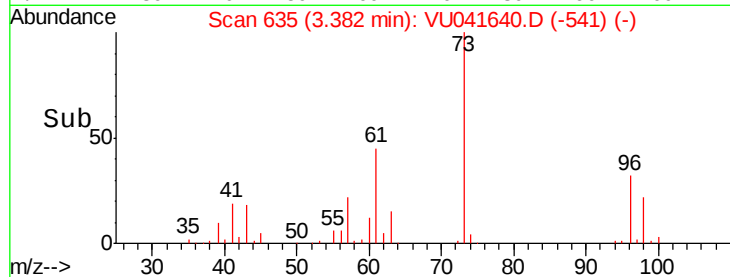
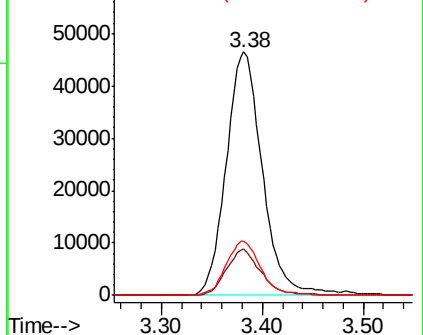
#17
Methvl tert-butvl Ether
Concen: 5.109 ug/L
RT: 3.38 min Scan# 635
Delta R.T. 0.00 min
Lab File: VU041640.D
Acq: 15 Dec 2020 16:37

Instrument :
MSVOA_U
ClientSampleId :
VSTD00517

Tot Ion: 73 Resp: 115766
Ion Ratio Lower Upper
73 100
43 18.3 14.7 22.1
57 21.1 18.2 27.4

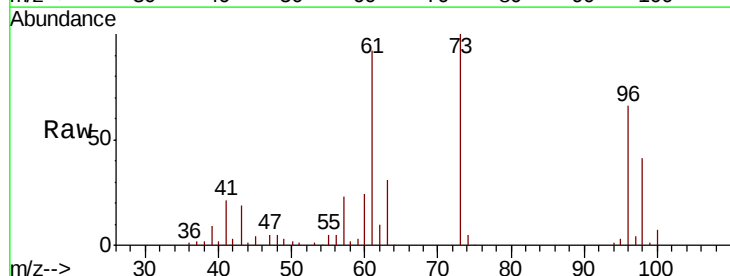


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

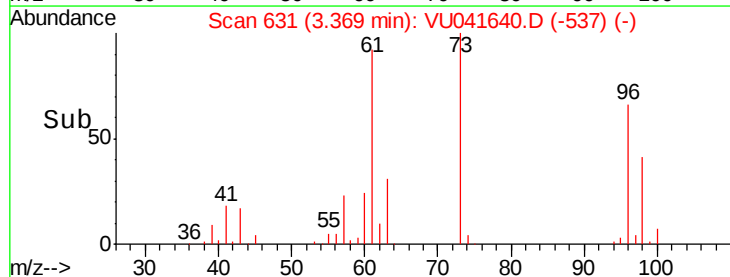
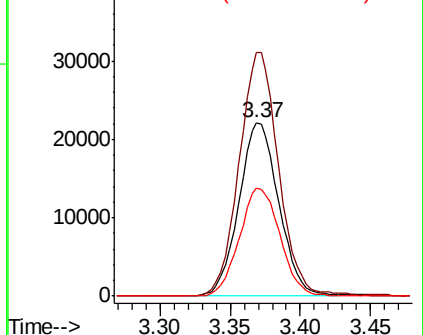


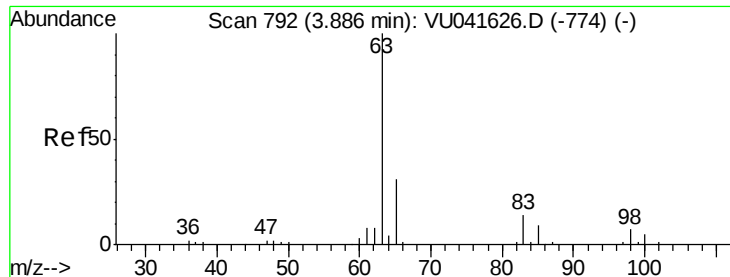
#18
trans-1,2-Dichloroethene
Concen: 4.990 ug/L
RT: 3.37 min Scan# 631
Delta R.T. 0.00 min
Lab File: VU041640.D
Acq: 15 Dec 2020 16:37

Tgt Ion: 96 Resp: 43834
Ion Ratio Lower Upper
96 100
61 140.1 101.8 189.0
98 61.8 44.4 82.5



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

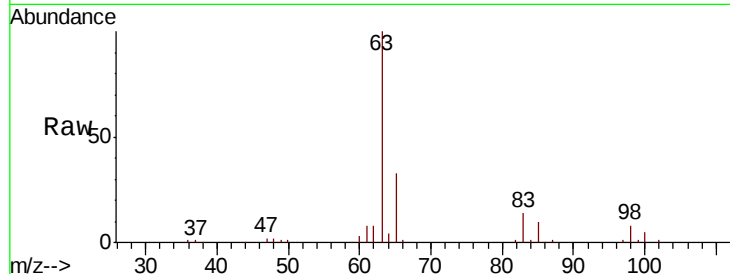




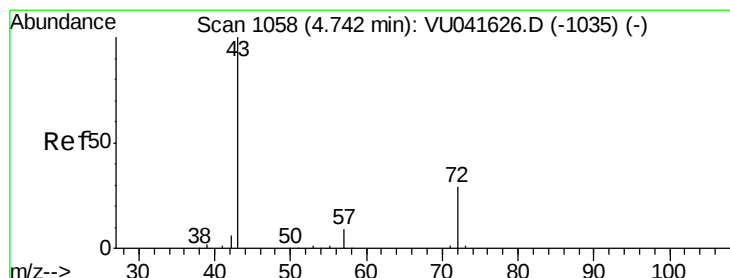
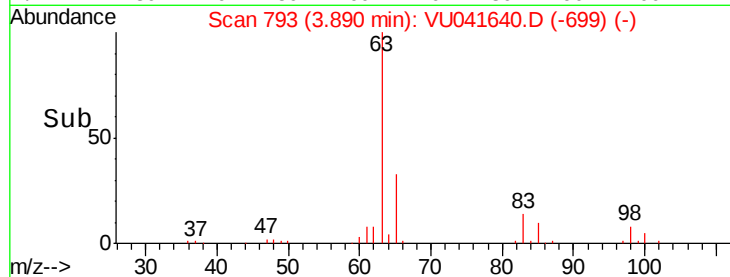
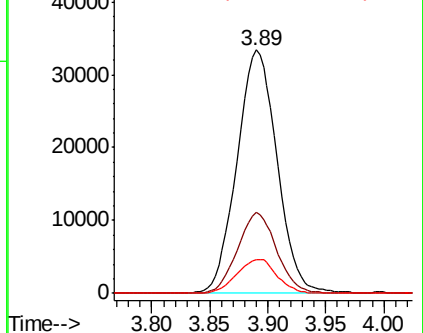
#19
 1,1-Dichloroethane
 Concen: 4.891 ug/L
 RT: 3.89 min Scan# 793
 Delta R.T. 0.00 min
 Lab File: VU041640.D
 Acq: 15 Dec 2020 16:37

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00517

Tot Ion: 63 Resp: 80301
 Ion Ratio Lower Upper
 63 100
 65 33.1 21.3 39.6
 83 13.6 9.3 17.3

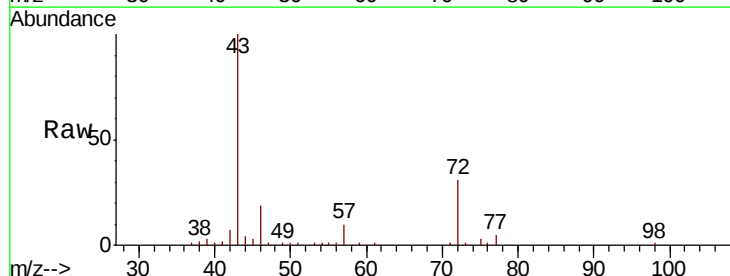


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

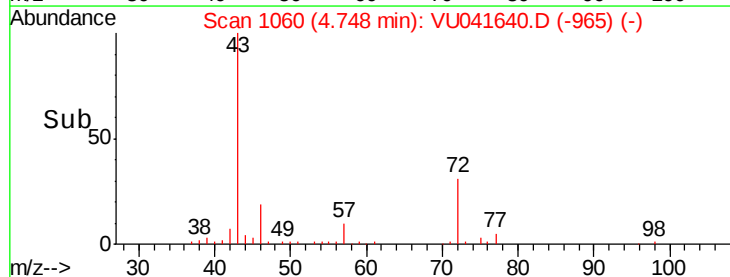
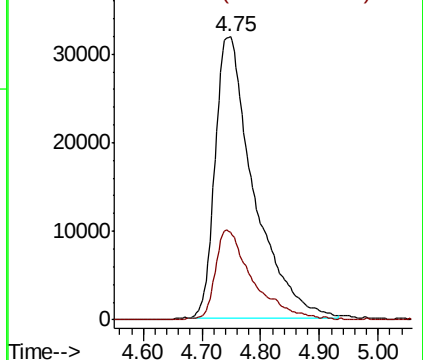


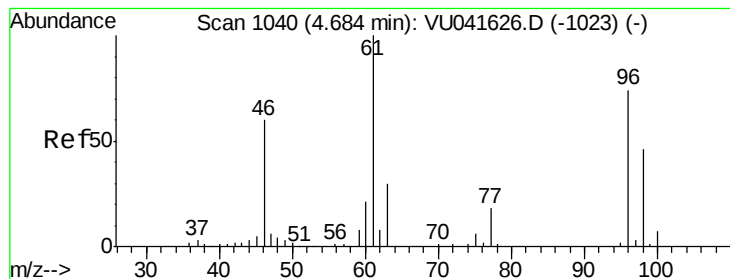
#21
 2-Butanone
 Concen: 49.765 ug/L
 RT: 4.75 min Scan# 1060
 Delta R.T. 0.01 min
 Lab File: VU041640.D
 Acq: 15 Dec 2020 16:37

Tgt Ion: 43 Resp: 144953
 Ion Ratio Lower Upper
 43 100
 72 29.4 14.6 44.0



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





#22

cis-1,2-Dichloroethene

Concen: 4.887 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU041640.D

Acq: 15 Dec 2020 16:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD00517

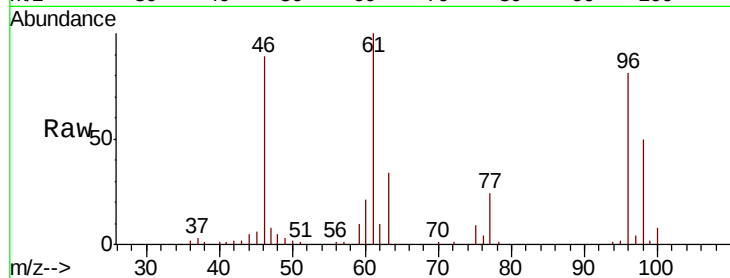
Tot Ion: 96 Resp: 47441

Ion Ratio Lower Upper

96 100

61 123.7 88.8 165.0

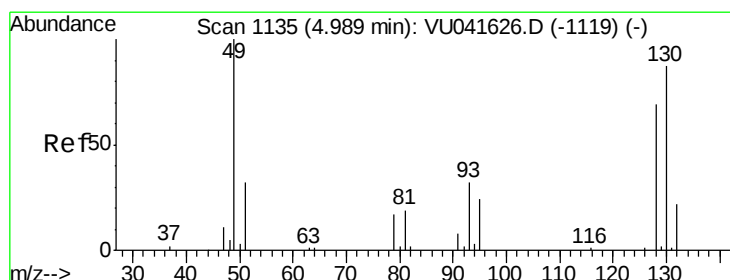
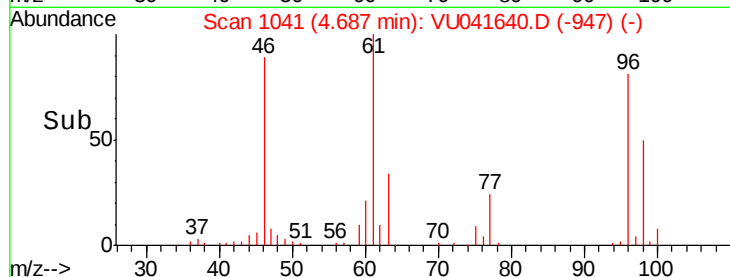
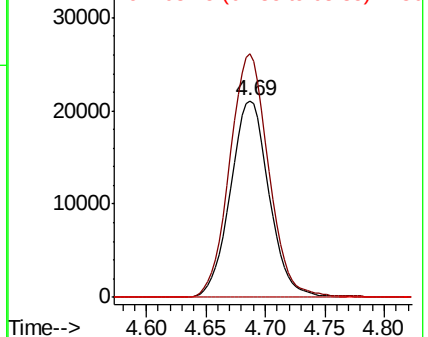
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0



#23

Bromochloromethane

Concen: 5.307 ug/L

RT: 5.00 min Scan# 1137

Delta R.T. 0.01 min

Lab File: VU041640.D

Acq: 15 Dec 2020 16:37

Tgt Ion:128 Resp: 23668

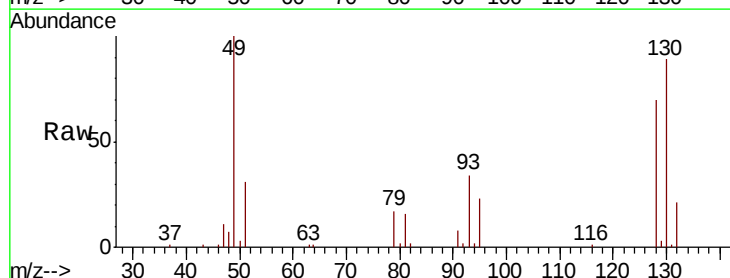
Ion Ratio Lower Upper

128 100

49 143.6 109.3 203.1

130 127.4 84.8 157.6

51 44.0 40.6 61.0

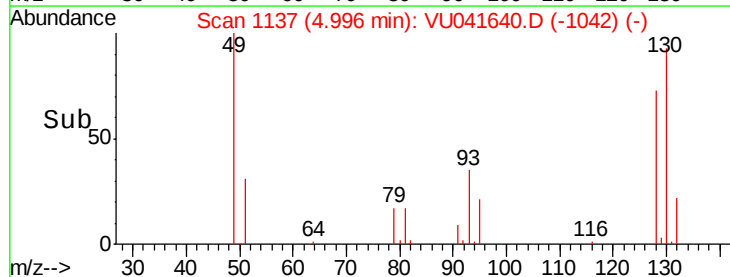
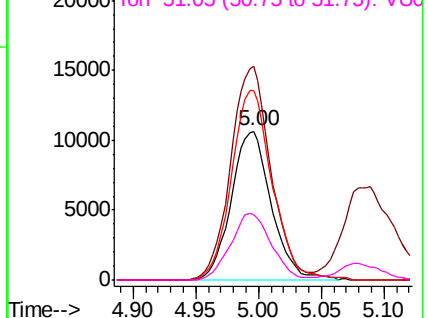


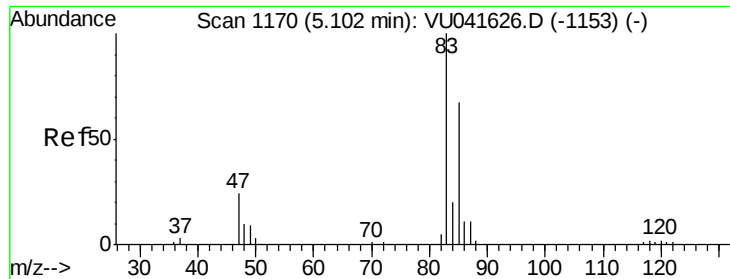
Abundance Ion 127.90 (127.60 to 128.60): V

Ion 49.10 (48.80 to 49.80): VU0

Ion 129.95 (129.65 to 130.65): V

Ion 51.05 (50.75 to 51.75): VU0

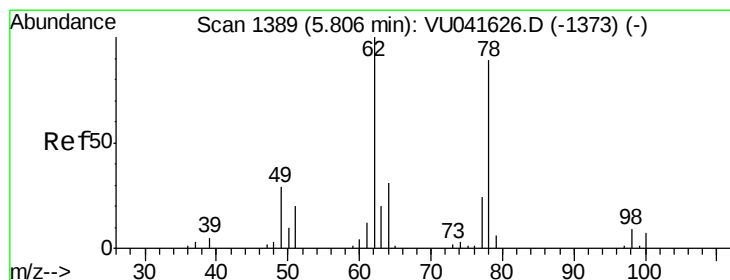
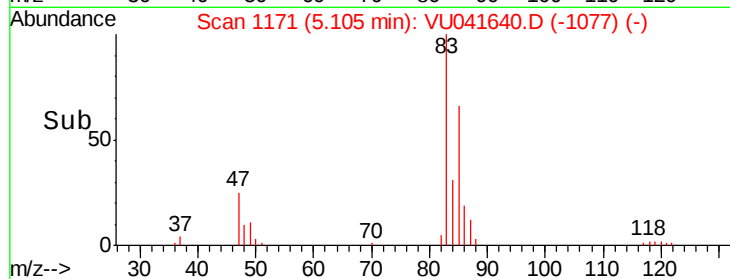
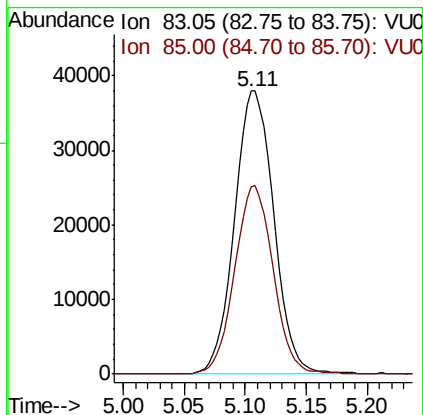
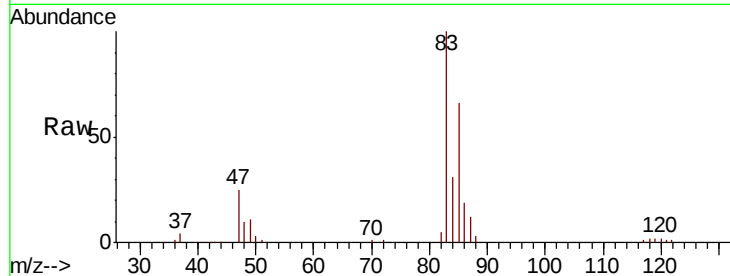




#25
Chloroform
Concen: 5.122 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. 0.00 min
Lab File: VU041640.D
Acq: 15 Dec 2020 16:37

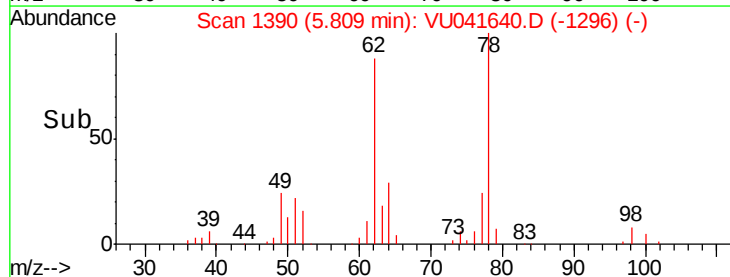
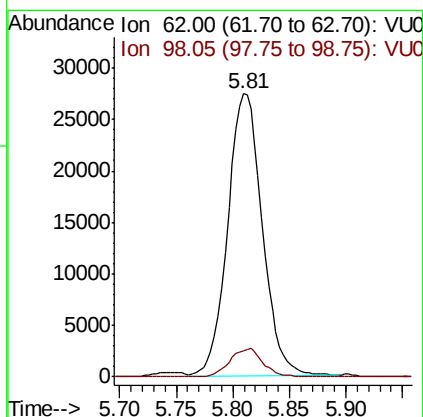
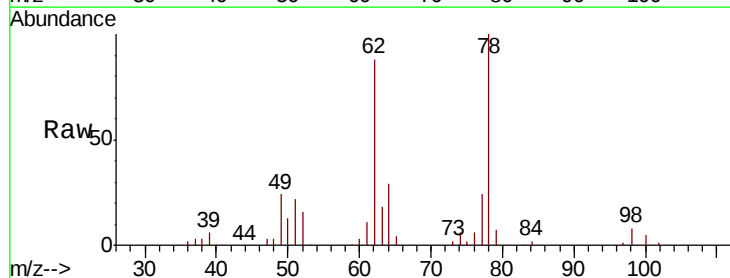
Instrument :
MSVOA_U
ClientSampleId :
VSTD00517

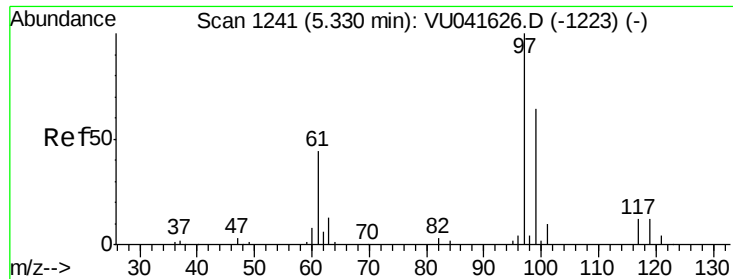
Tot Ion: 83 Resp: 84676
Ion Ratio Lower Upper
83 100
85 66.2 44.2 82.0



#27
1,2-Dichloroethane
Concen: 5.235 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VU041640.D
Acq: 15 Dec 2020 16:37

Tgt Ion: 62 Resp: 58612
Ion Ratio Lower Upper
62 100
98 9.0 8.2 12.2

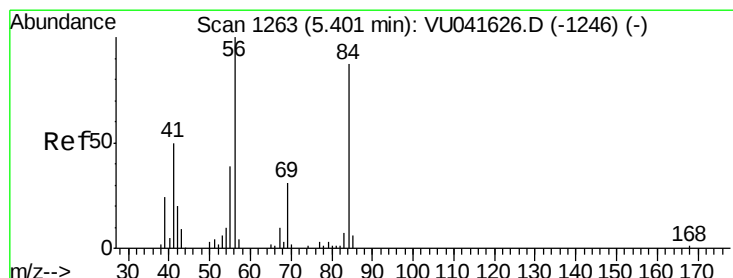
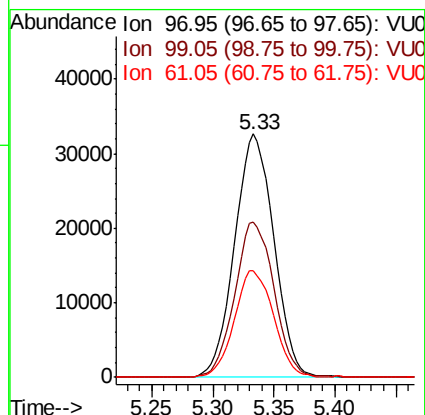
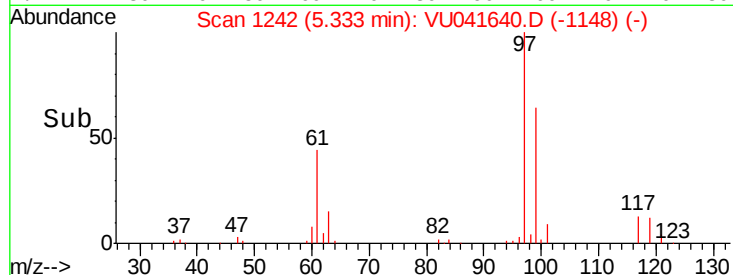
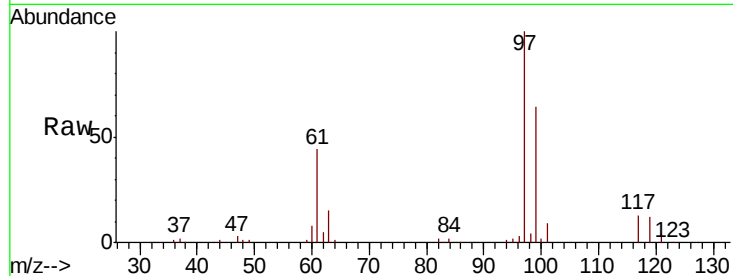




#29
 1,1,1-Trichloroethane
 Concen: 5.291 ug/L
 RT: 5.33 min Scan# 1242
 Delta R.T. 0.00 min
 Lab File: VU041640.D
 Acq: 15 Dec 2020 16:37

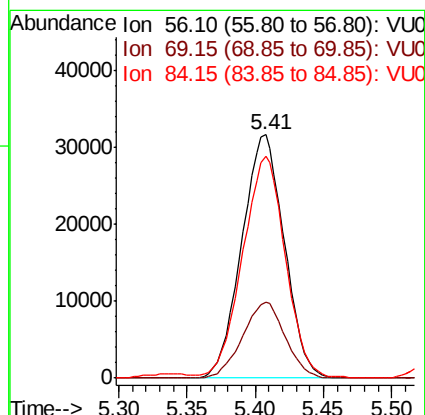
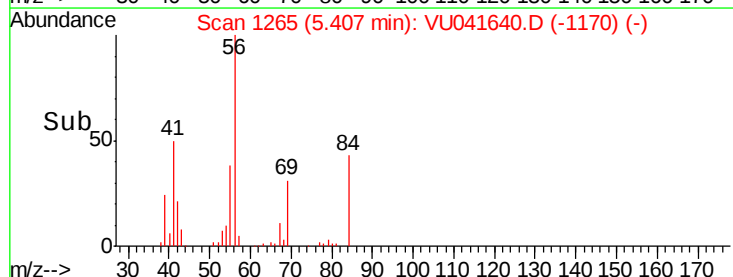
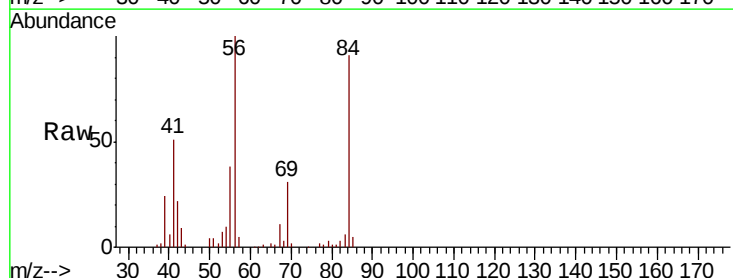
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00517

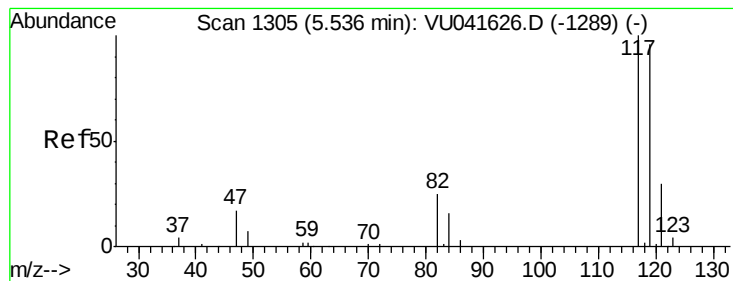
Tot Ion: 97 Resp: 72800
 Ion Ratio Lower Upper
 97 100
 99 63.8 51.3 76.9
 61 43.8 36.5 54.7



#30
 Cyclohexane
 Concen: 4.445 ug/L
 RT: 5.41 min Scan# 1265
 Delta R.T. 0.01 min
 Lab File: VU041640.D
 Acq: 15 Dec 2020 16:37

Tgt Ion: 56 Resp: 68557
 Ion Ratio Lower Upper
 56 100
 69 31.1 23.8 35.8
 84 91.8 66.2 99.4





#31

Carbon tetrachloride

Concen: 5.289 ug/L

RT: 5.54 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU041640.D

Acq: 15 Dec 2020 16:37

Instrument :

MSVOA_U

ClientSampleId :

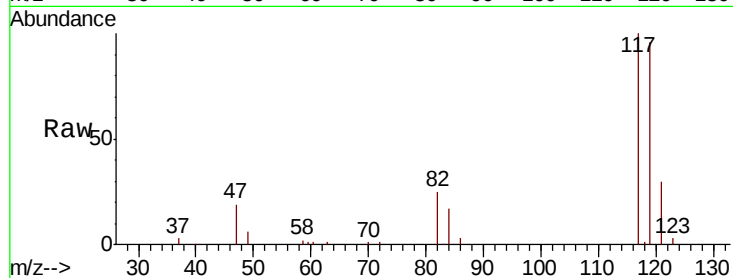
VSTD00517

Tot Ion:117 Resp: 62933

Ion Ratio Lower Upper

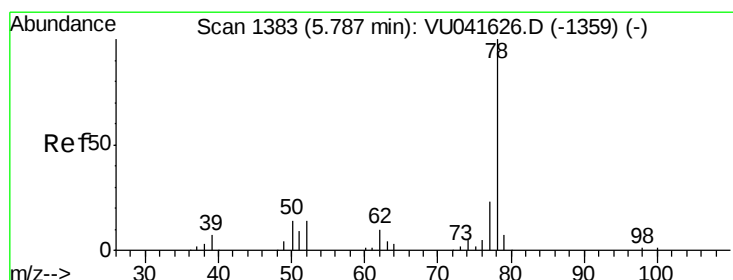
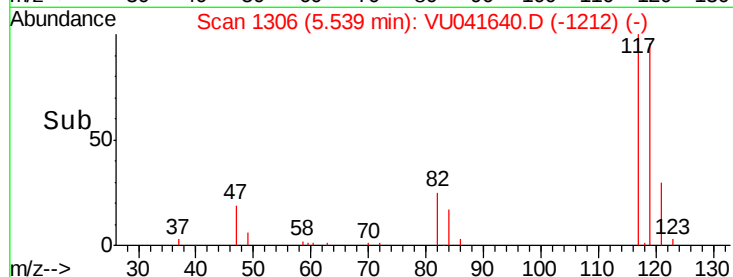
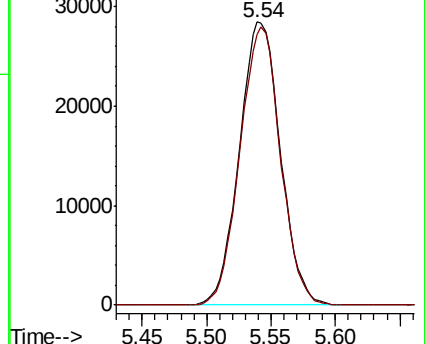
117 100

119 96.6 76.2 114.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.862 ug/L

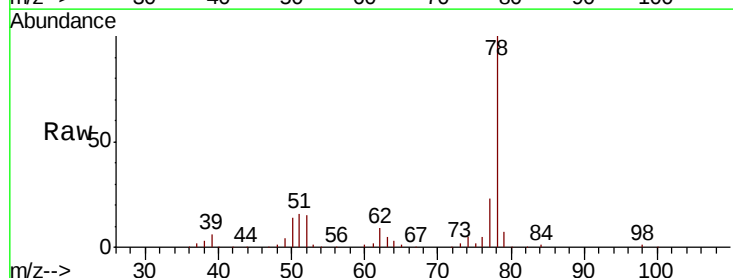
RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

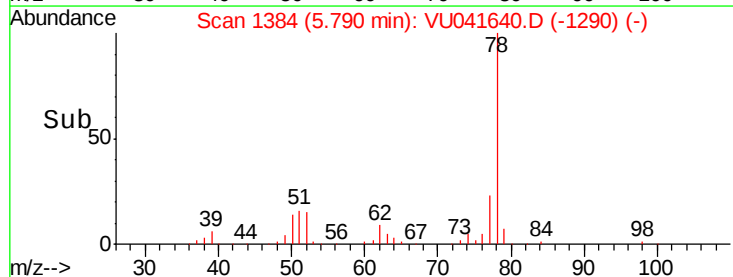
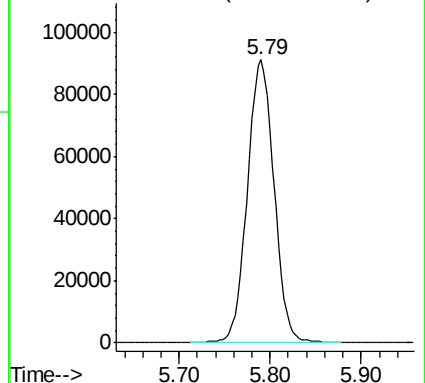
Lab File: VU041640.D

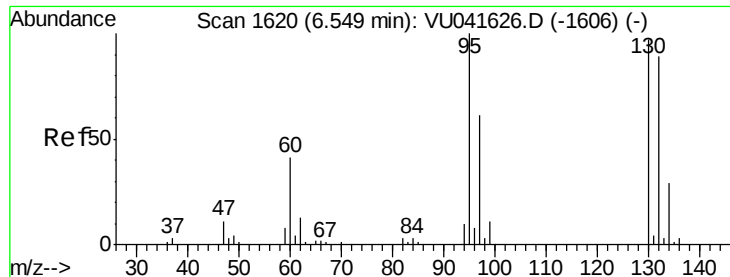
Acq: 15 Dec 2020 16:37

Tgt Ion: 78 Resp: 186320



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.969 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. 0.01 min

Lab File: VU041640.D

Acq: 15 Dec 2020 16:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD00517

Tot Ion: 95 Resp: 47851

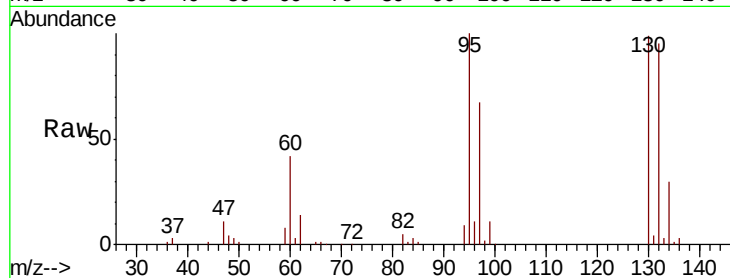
Ion Ratio Lower Upper

95 100

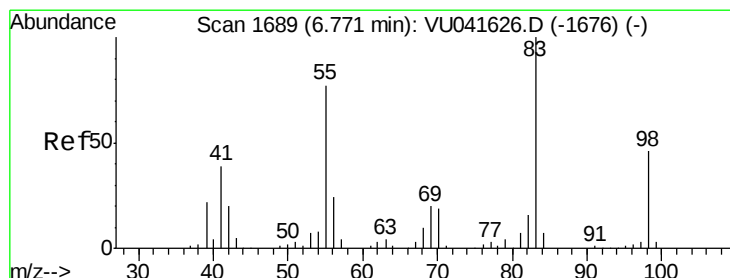
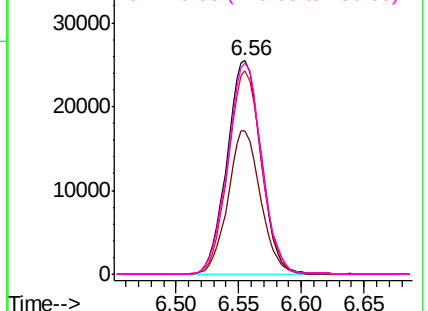
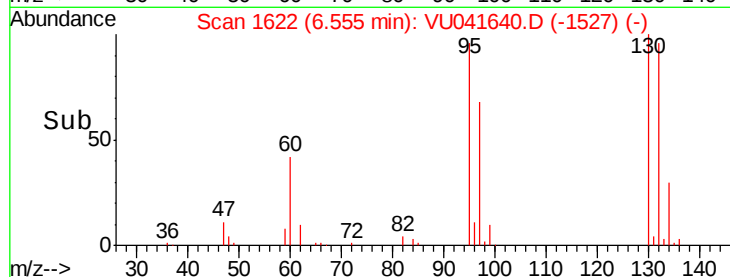
97 67.4 43.9 81.5

132 95.3 63.1 117.3

130 98.8 67.4 125.2



Abundance Ion 95.00 (94.70 to 95.70): VU041640.D (-1527) (-)



#35

Methylcyclohexane

Concen: 4.866 ug/L

RT: 6.77 min Scan# 1690

Delta R.T. 0.00 min

Lab File: VU041640.D

Acq: 15 Dec 2020 16:37

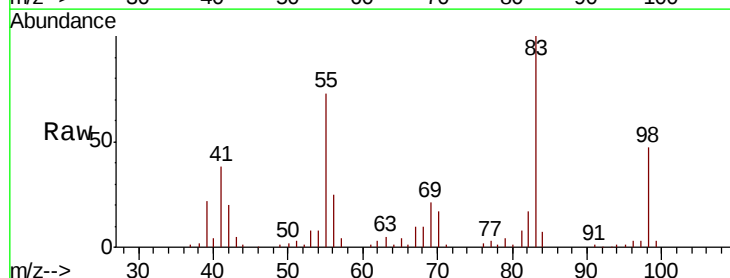
Tgt Ion: 83 Resp: 75741

Ion Ratio Lower Upper

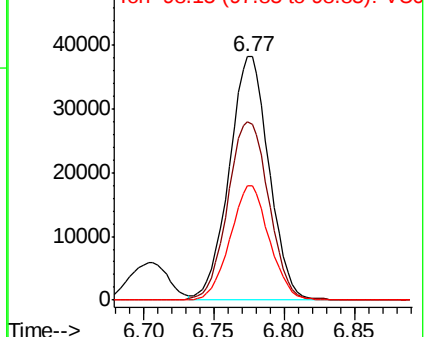
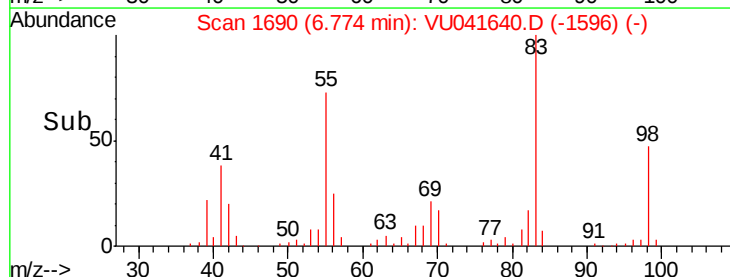
83 100

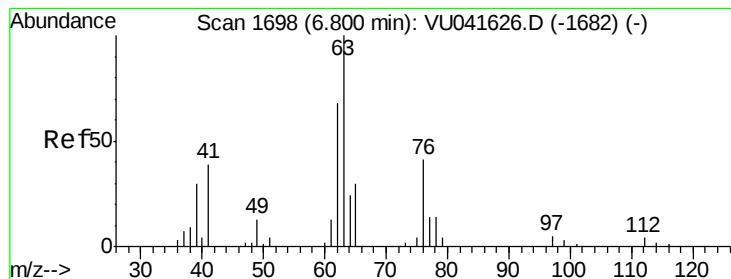
55 75.4 61.2 91.8

98 46.0 36.6 54.8



Abundance Ion 83.15 (82.85 to 83.85): VU041640.D (-1596) (-)





#37

1,2-Dichloropropane

Concen: 4.865 ug/L

RT: 6.80 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VU041640.D

Acq: 15 Dec 2020 16:37

Instrument :

MSVOA_U

ClientSampleId :

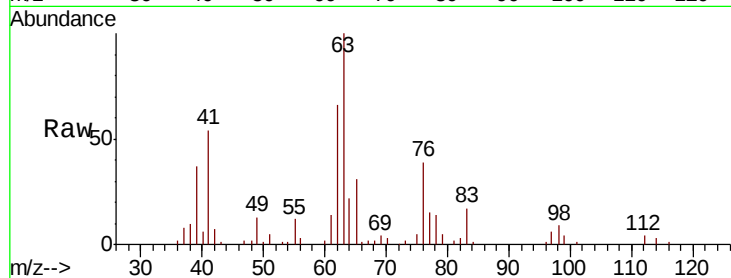
VSTD00517

Tot Ion: 63 Resp: 47683

Ion Ratio Lower Upper

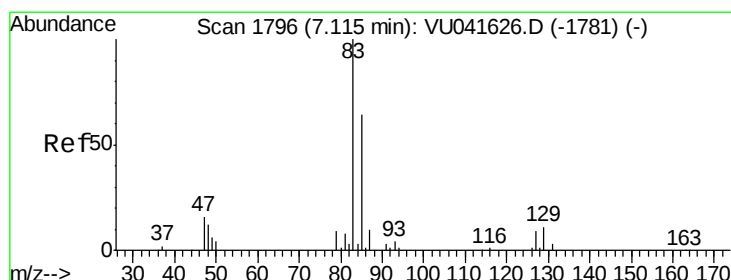
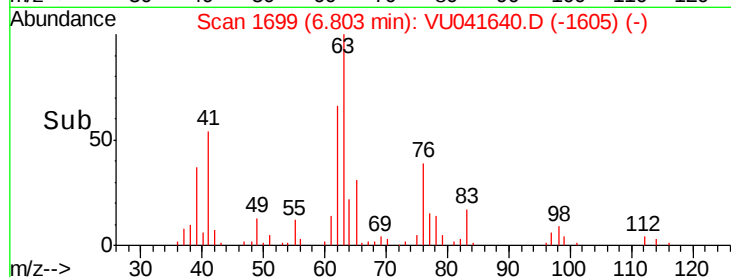
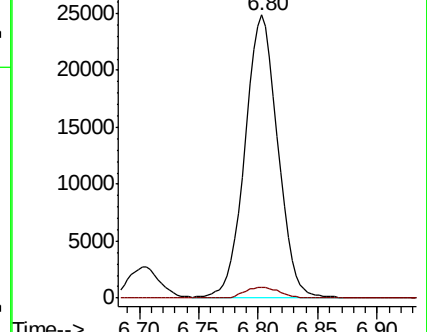
63 100

112 3.9 3.1 4.7



Abundance Ion 63.10 (62.80 to 63.80): VU041626.D (-1682) (-)

Ion 112.10 (111.80 to 112.80): VU041626.D (-1682) (-)



#38

Bromodichloromethane

Concen: 5.119 ug/L

RT: 7.11 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VU041640.D

Acq: 15 Dec 2020 16:37

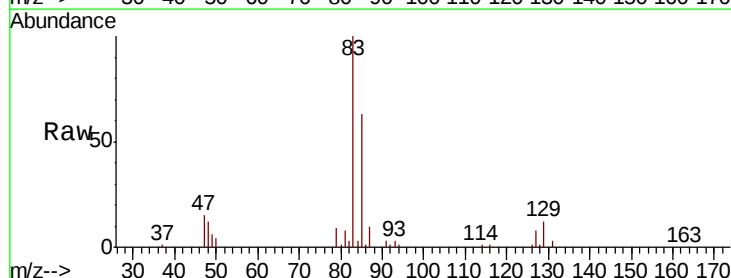
Tgt Ion: 83 Resp: 62424

Ion Ratio Lower Upper

83 100

85 63.4 45.5 84.5

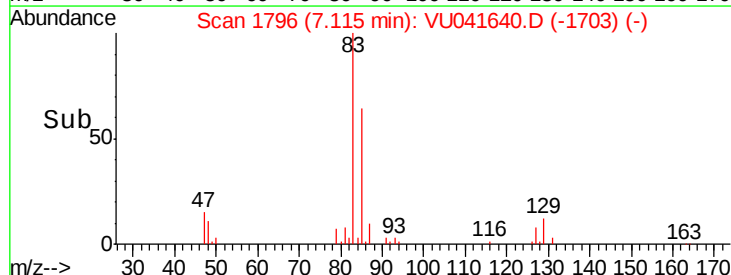
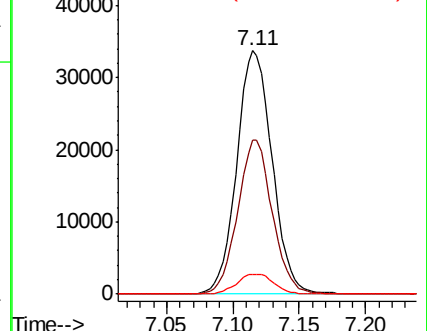
127 8.1 7.0 10.6

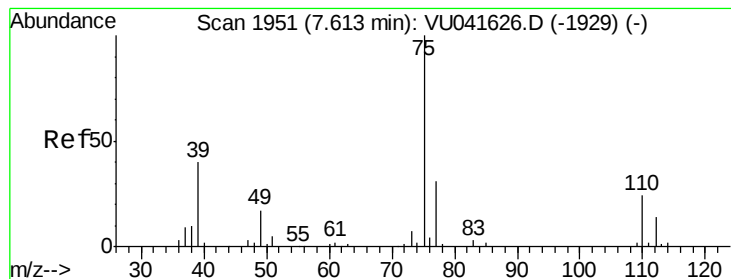


Abundance Ion 82.95 (82.65 to 83.65): VU041626.D (-1781) (-)

Ion 85.00 (84.70 to 85.70): VU041626.D (-1781) (-)

Ion 126.90 (126.60 to 127.60): VU041626.D (-1781) (-)



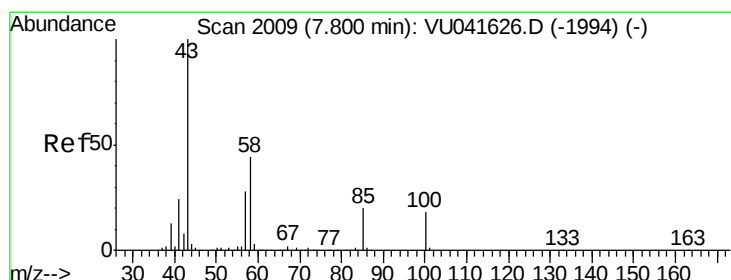
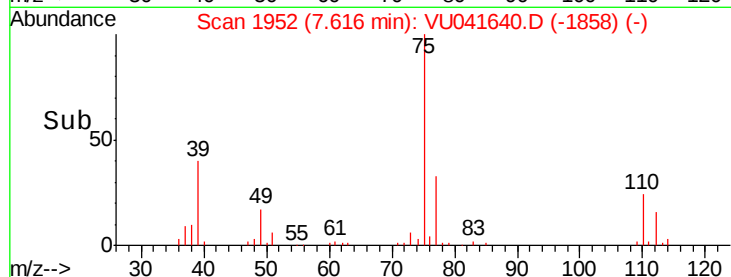
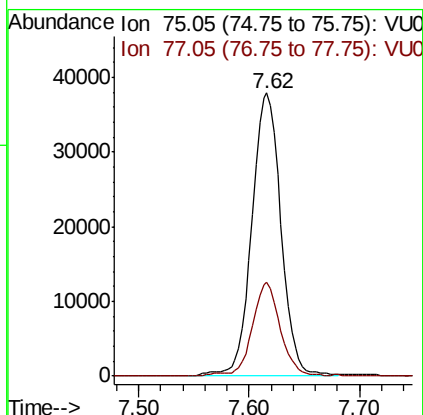
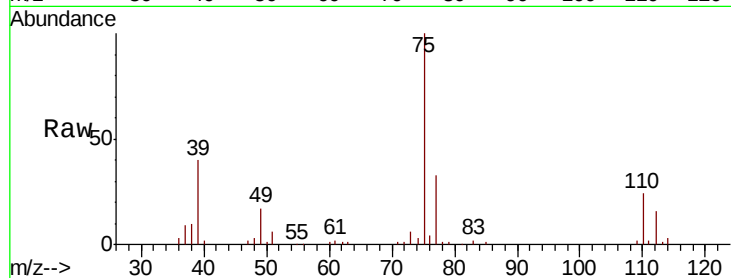


#39

cis-1,3-Dichloropropene
 Concen: 4.800 ug/L
 RT: 7.62 min Scan# 1952
 Delta R.T. 0.00 min
 Lab File: VU041640.D
 Acq: 15 Dec 2020 16:37

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00517

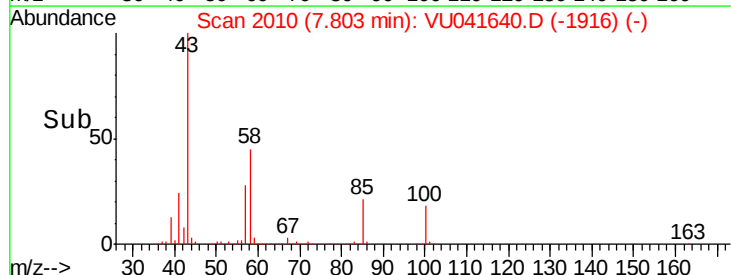
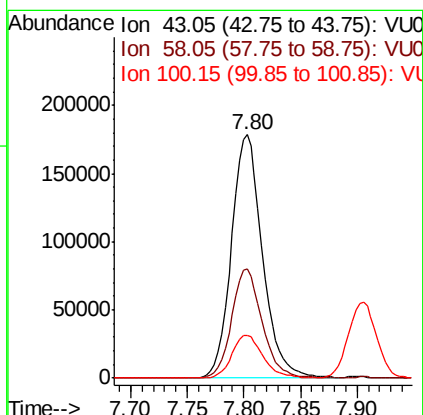
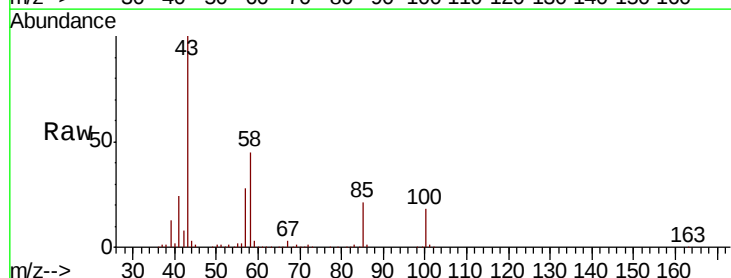
Tot Ion: 75 Resp: 69718
 Ion Ratio Lower Upper
 75 100
 77 33.3 22.3 41.3

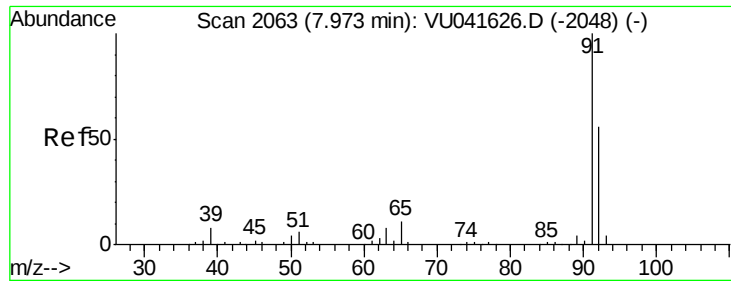


#40

4-Methyl-2-pentanone
 Concen: 48.901 ug/L
 RT: 7.80 min Scan# 2010
 Delta R.T. 0.00 min
 Lab File: VU041640.D
 Acq: 15 Dec 2020 16:37

Tgt Ion: 43 Resp: 341074
 Ion Ratio Lower Upper
 43 100
 58 43.9 34.2 51.2
 100 17.8 12.3 18.5





#42

Toluene

Concen: 5.083 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU041640.D

Acq: 15 Dec 2020 16:37

Instrument :

MSVOA_U

ClientSampleId :

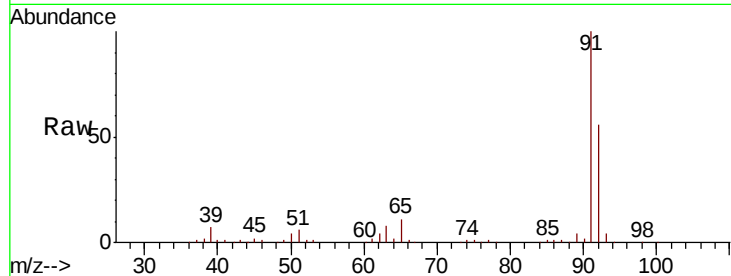
VSTD00517

Tot Ion: 91 Resp: 201116

Ion Ratio Lower Upper

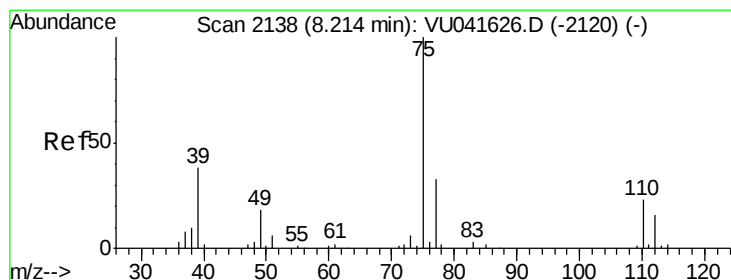
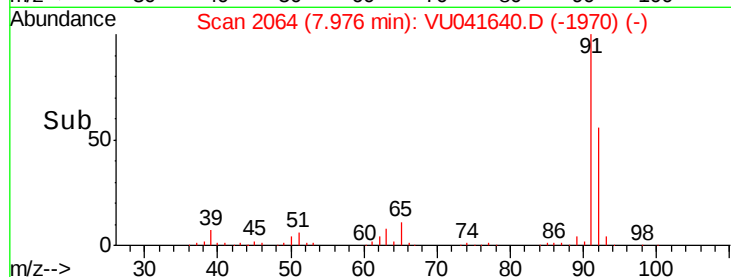
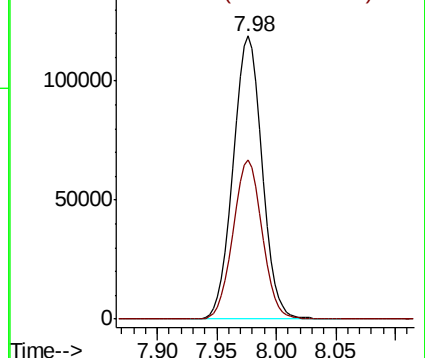
91 100

92 56.1 40.0 74.2



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 4.983 ug/L

RT: 8.21 min Scan# 2138

Delta R.T. 0.00 min

Lab File: VU041640.D

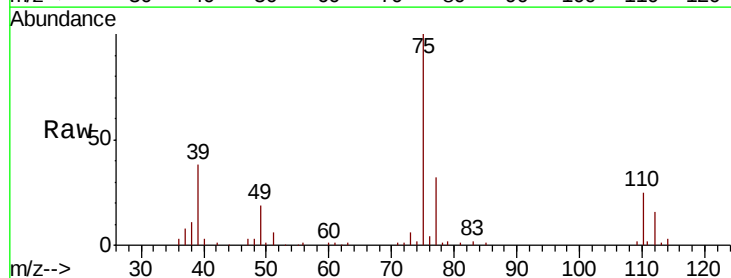
Acq: 15 Dec 2020 16:37

Tgt Ion: 75 Resp: 64721

Ion Ratio Lower Upper

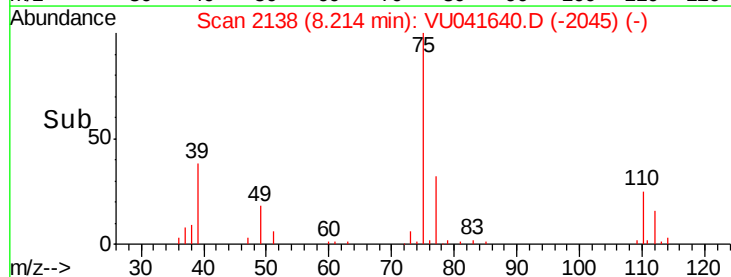
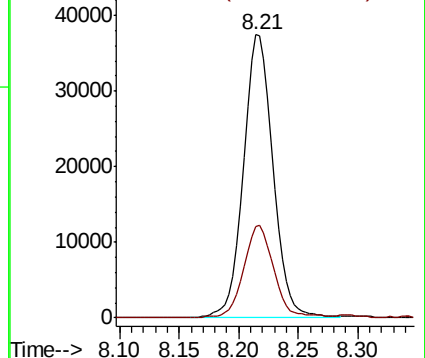
75 100

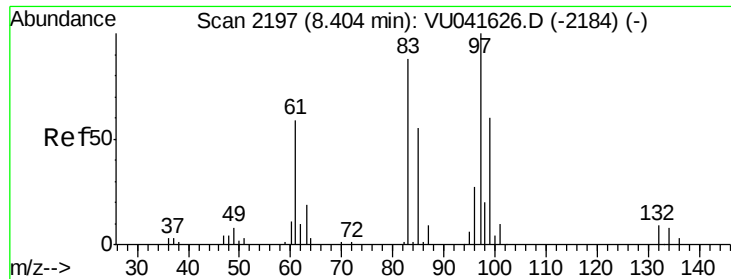
77 32.4 23.8 44.2



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

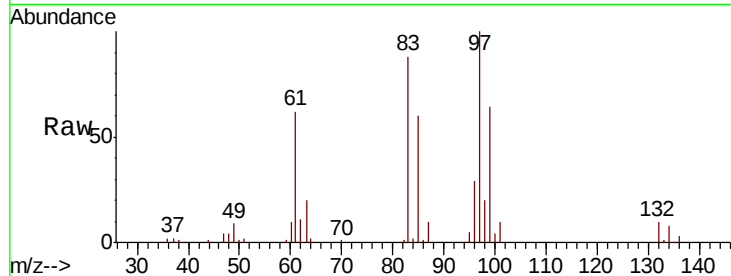




#45
1,1,2-Trichloroethane
Concen: 5.203 ug/L
RT: 8.41 min Scan# 2198
Delta R.T. 0.00 min
Lab File: VU041640.D
Acq: 15 Dec 2020 16:37

Instrument :
MSVOA_U
ClientSampleId :
VSTD00517

Tot Ion:	97	Resp:	37718
Ion	Ratio	Lower	Upper
97	100		
99	64.5	42.1	78.3
83	88.3	62.6	116.2
85	60.2	39.1	72.7



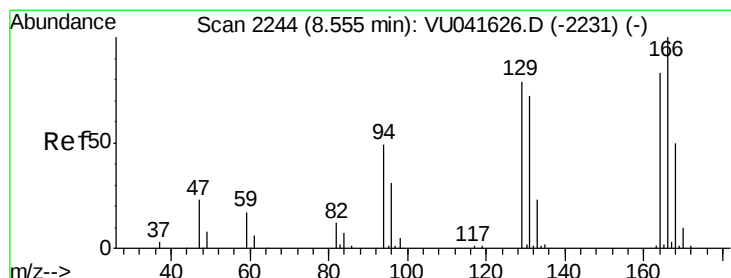
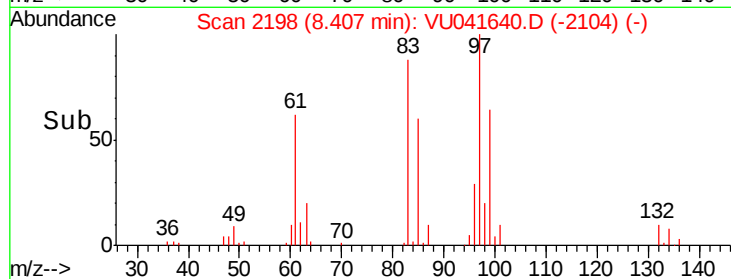
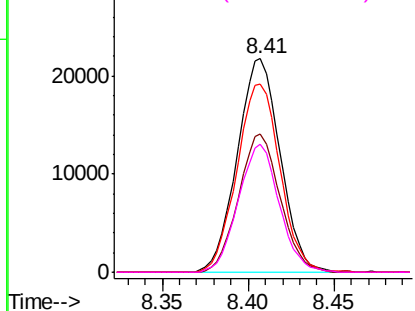
Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

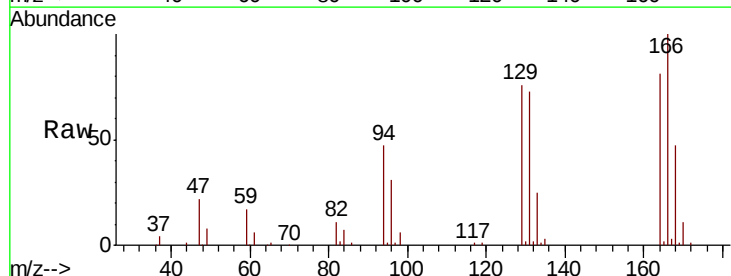
Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47
Tetrachloroethene
Concen: 5.456 ug/L
RT: 8.56 min Scan# 2244
Delta R.T. 0.00 min
Lab File: VU041640.D
Acq: 15 Dec 2020 16:37

Tgt Ion:	164	Resp:	36778
Ion	Ratio	Lower	Upper
164	100		
129	94.0	72.2	134.0
131	90.5	66.9	124.3
166	124.2	89.6	166.4



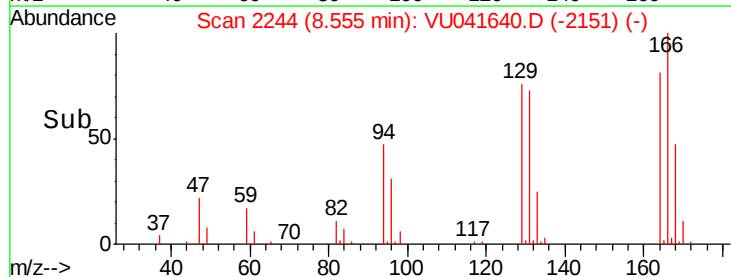
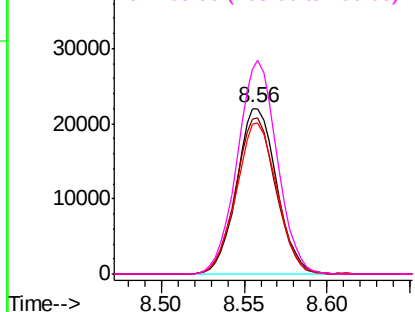
Abundance

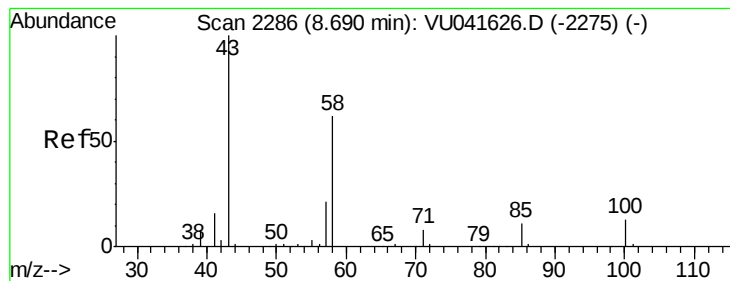
Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V





#48

2-Hexanone

Concen: 50.712 ug/L

RT: 8.69 min Scan# 2287

Delta R.T. 0.00 min

Lab File: VU041640.D

Acq: 15 Dec 2020 16:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD00517

Tot Ion: 43 Resp: 257415

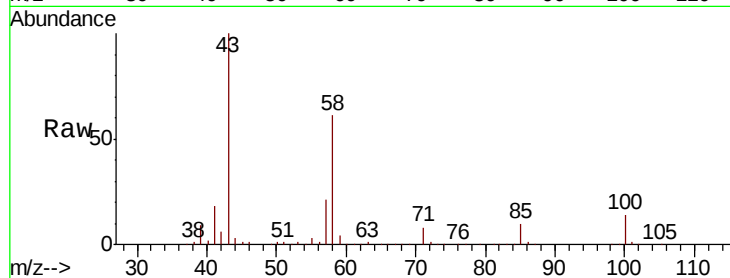
Ion Ratio Lower Upper

43 100

58 61.0 47.9 71.9

57 21.1 16.5 24.7

100 13.5 9.4 14.2

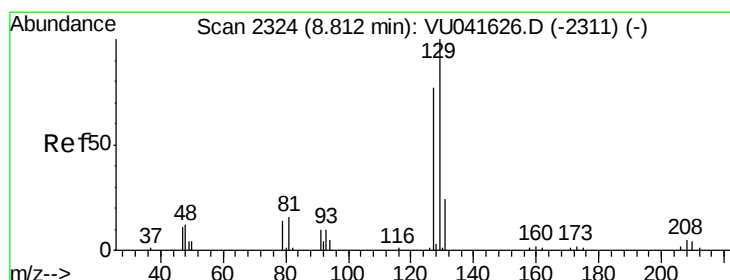
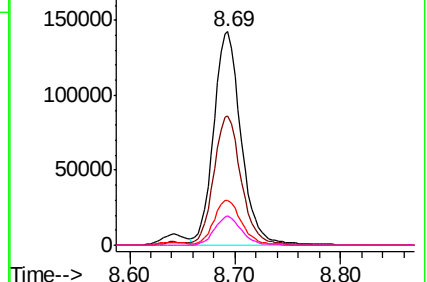
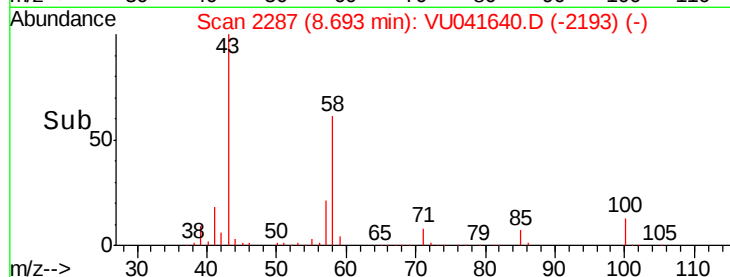


Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0



#49

Dibromochloromethane

Concen: 5.517 ug/L

RT: 8.82 min Scan# 2325

Delta R.T. 0.00 min

Lab File: VU041640.D

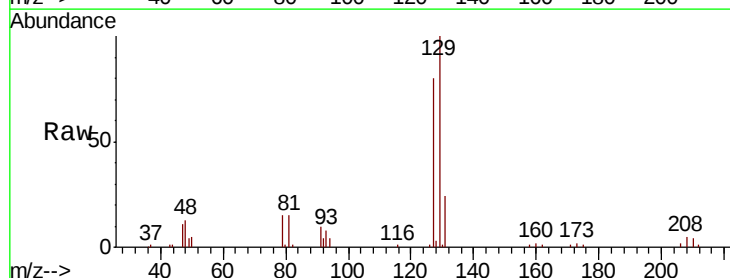
Acq: 15 Dec 2020 16:37

Tgt Ion: 129 Resp: 45936

Ion Ratio Lower Upper

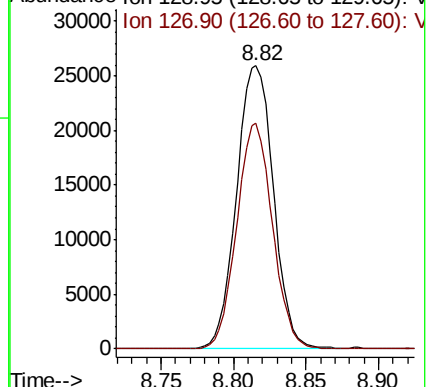
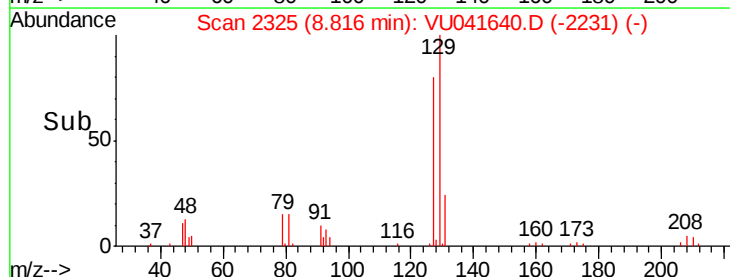
129 100

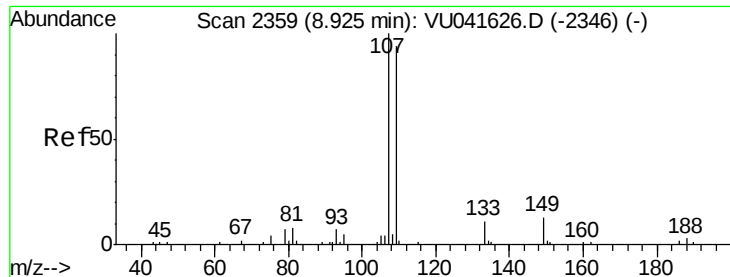
127 79.7 54.7 101.7



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

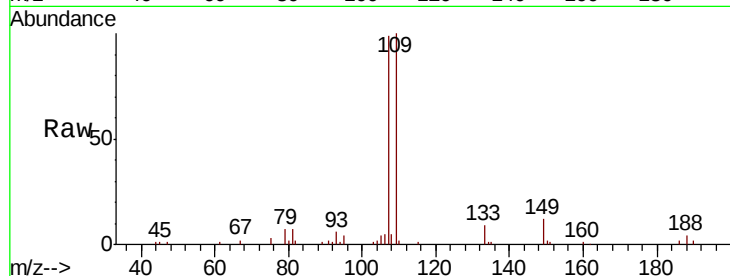




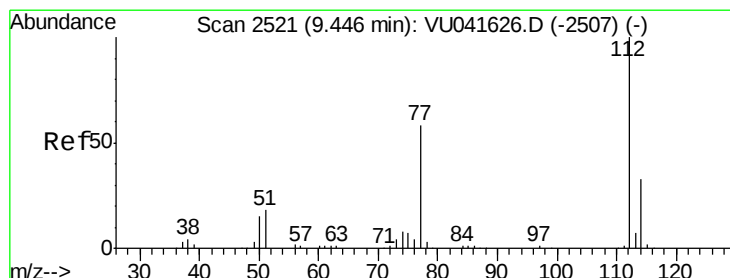
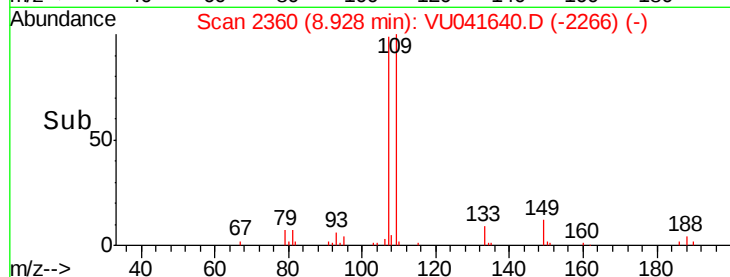
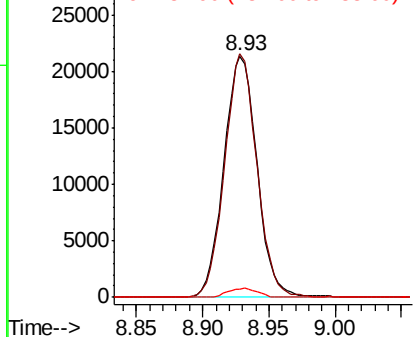
#50
1,2-Dibromoethane
Concen: 5.176 ug/L
RT: 8.93 min Scan# 2360
Delta R.T. 0.00 min
Lab File: VU041640.D
Acq: 15 Dec 2020 16:37

Instrument :
MSVOA_U
ClientSampleId :
VSTD00517

Tot Ion:107 Resp: 37117
Ion Ratio Lower Upper
107 100
109 101.0 65.6 121.8
188 3.6 2.6 4.0

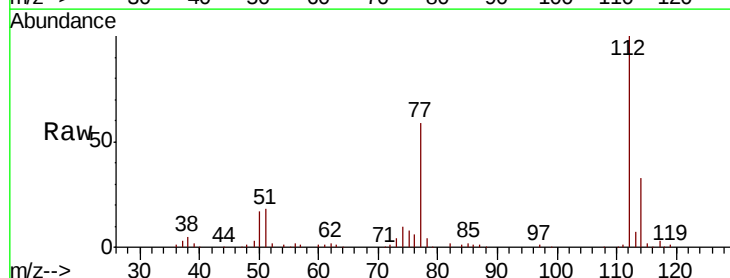


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

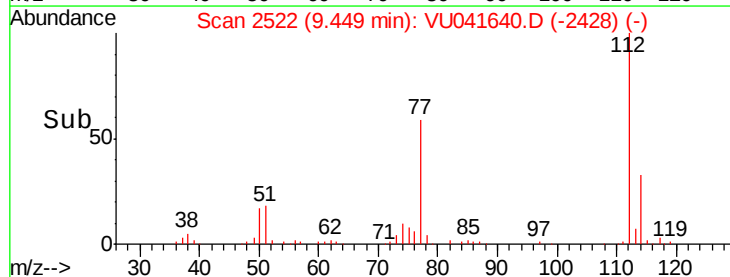
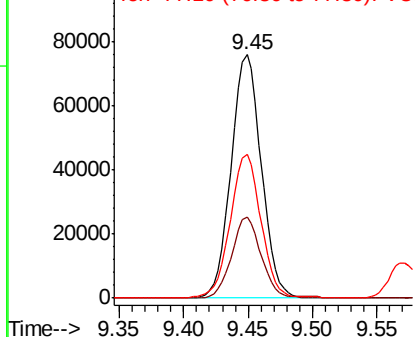


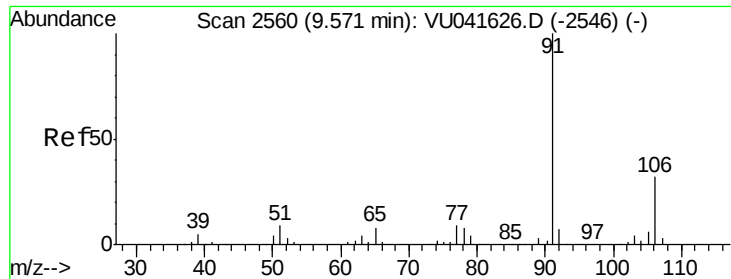
#51
Chlorobenzene
Concen: 5.047 ug/L
RT: 9.45 min Scan# 2522
Delta R.T. 0.00 min
Lab File: VU041640.D
Acq: 15 Dec 2020 16:37

Tgt Ion:112 Resp: 124124
Ion Ratio Lower Upper
112 100
114 33.1 22.7 42.3
77 58.9 49.1 73.7



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: 4.905 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. 0.00 min

Lab File: VU041640.D

Acq: 15 Dec 2020 16:37

Instrument :

MSVOA_U

ClientSampleId :

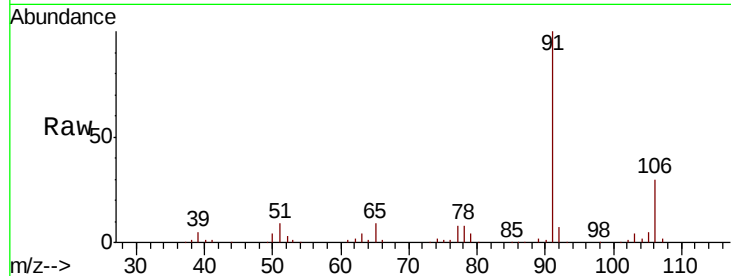
VSTD00517

Tot Ion: 91 Resp: 206642

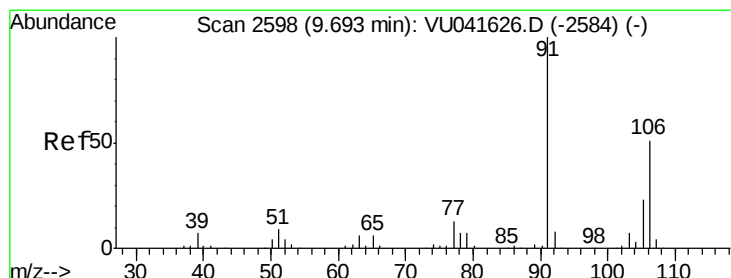
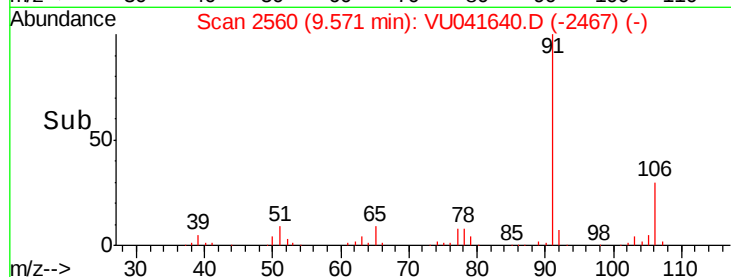
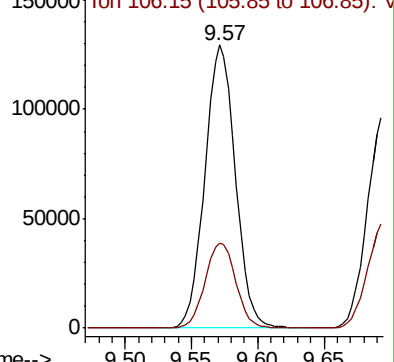
Ion Ratio Lower Upper

91 100

106 30.2 21.1 39.3



Abundance Ion 91.15 (90.85 to 91.85): VU041640.D (-2546) (-)



#53

m,p-Xylene

Concen: 5.054 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VU041640.D

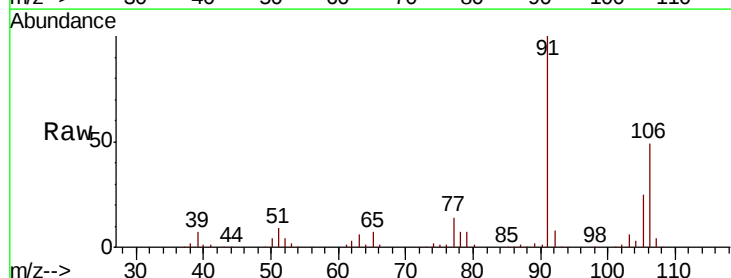
Acq: 15 Dec 2020 16:37

Tgt Ion: 106 Resp: 79416

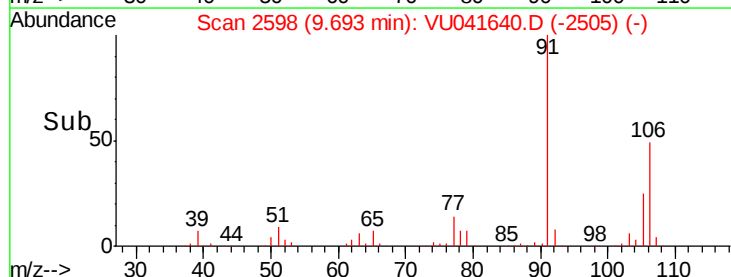
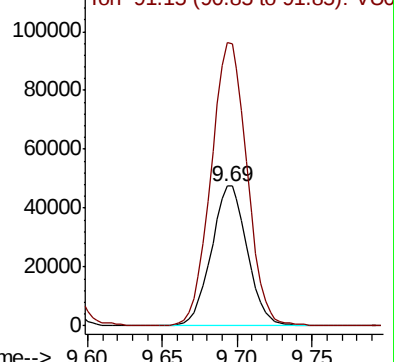
Ion Ratio Lower Upper

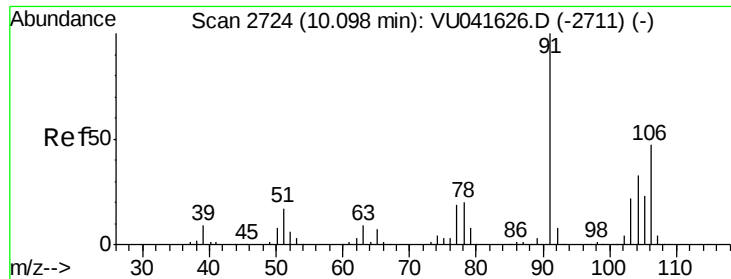
106 100

91 202.7 140.4 260.8



Abundance Ion 106.15 (105.85 to 106.85): VU041640.D (-2598) (-)

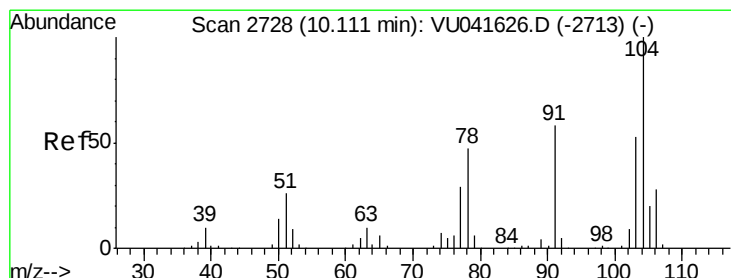
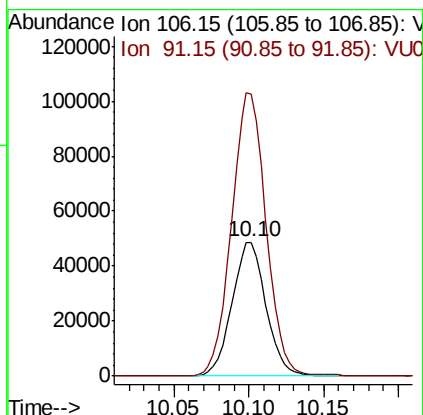
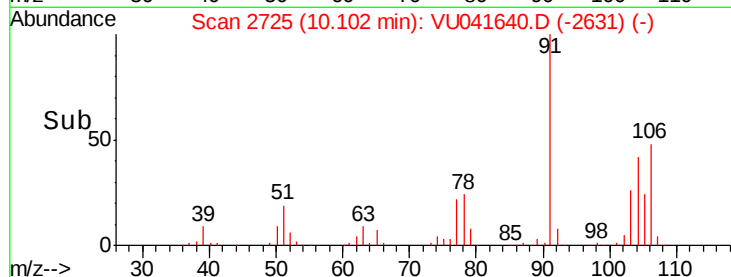
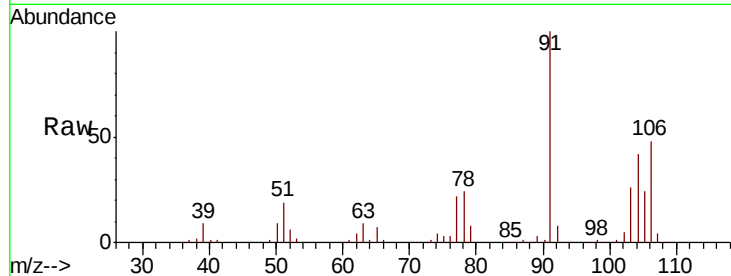




#54
o-Xylene
Concen: 5.011 ug/L
RT: 10.10 min Scan# 2725
Delta R.T. 0.00 min
Lab File: VU041640.D
Acq: 15 Dec 2020 16:37

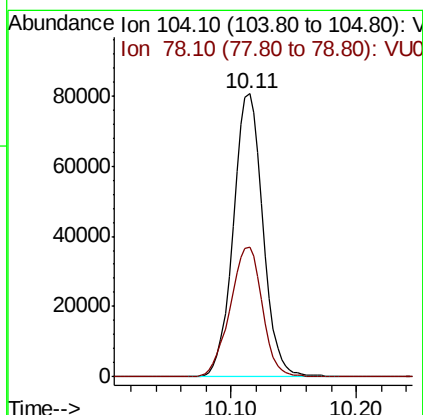
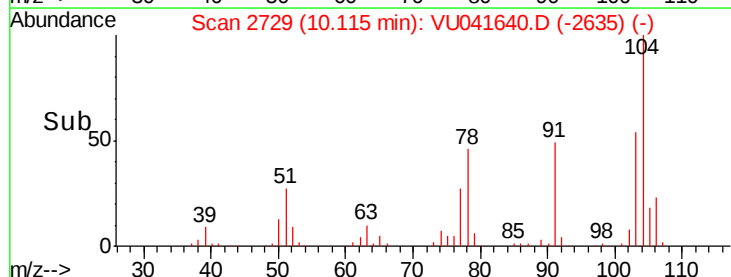
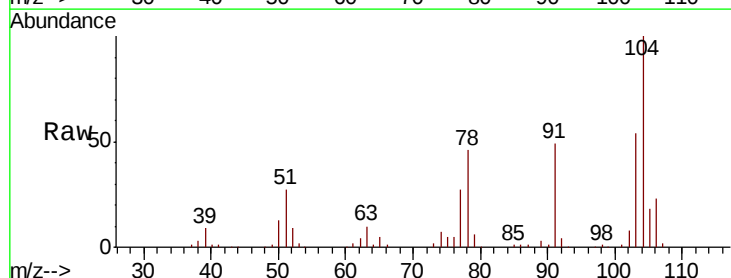
Instrument :
MSVOA_U
ClientSampleId :
VSTD00517

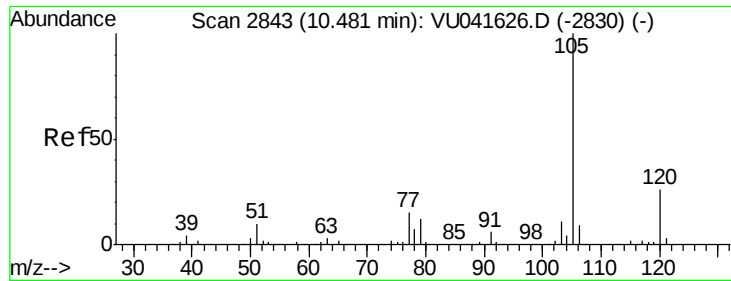
Tot Ion:106 Resp: 77110
Ion Ratio Lower Upper
106 100
91 209.9 151.3 281.1



#55
Styrene
Concen: 4.970 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. 0.00 min
Lab File: VU041640.D
Acq: 15 Dec 2020 16:37

Tgt Ion:104 Resp: 132111
Ion Ratio Lower Upper
104 100
78 46.0 31.1 57.9





#56

Isopropylbenzene

Concen: 5.010 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. 0.00 min

Lab File: VU041640.D

Acq: 15 Dec 2020 16:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD00517

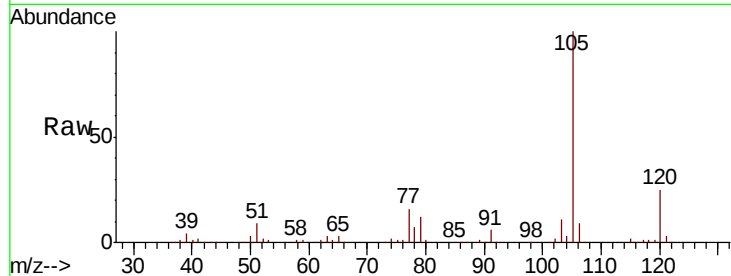
Tot Ion:105 Resp: 205214

Ion Ratio Lower Upper

105 100

120 25.5 20.5 30.7

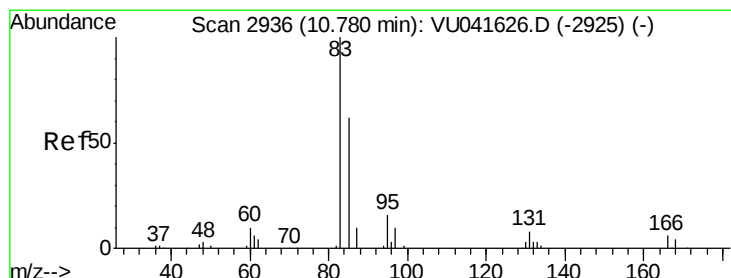
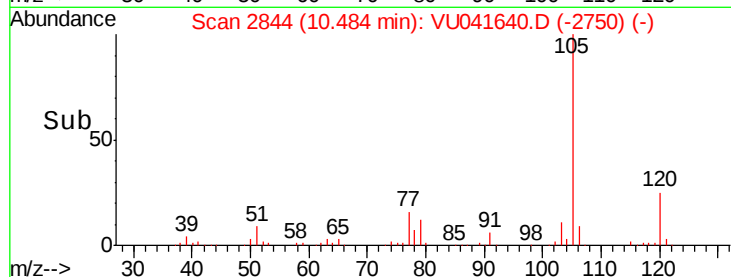
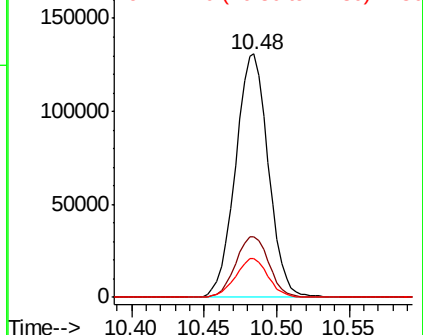
77 15.9 12.7 19.1



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: 5.253 ug/L

RT: 10.78 min Scan# 2936

Delta R.T. 0.00 min

Lab File: VU041640.D

Acq: 15 Dec 2020 16:37

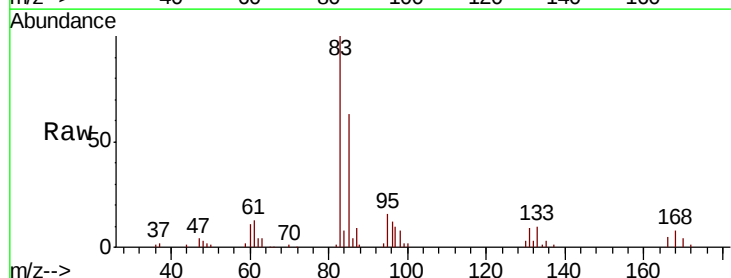
Tgt Ion: 83 Resp: 52987

Ion Ratio Lower Upper

83 100

85 62.7 46.1 85.7

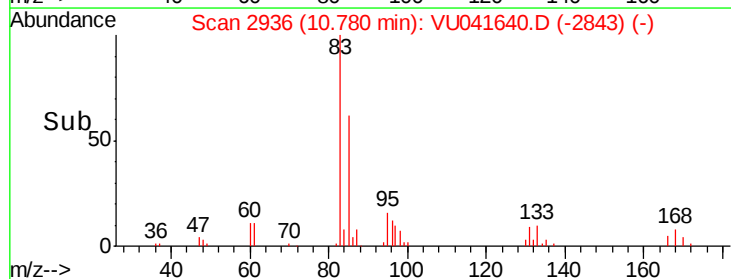
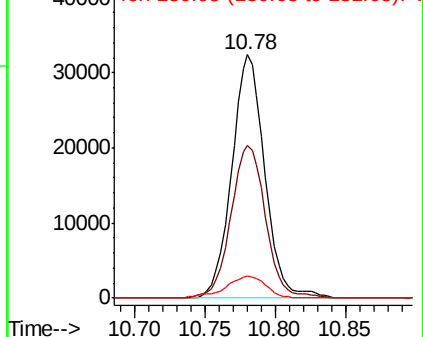
131 9.0 7.8 11.6

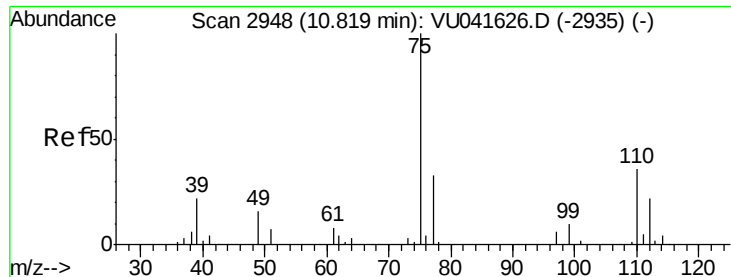


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V

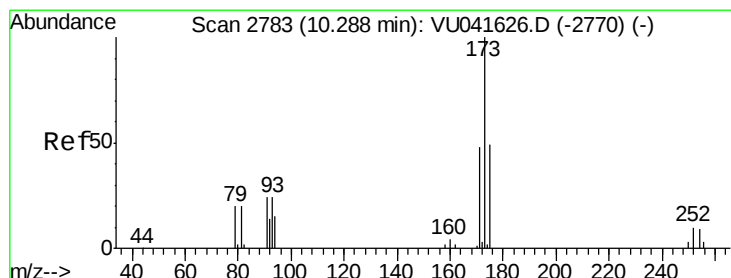
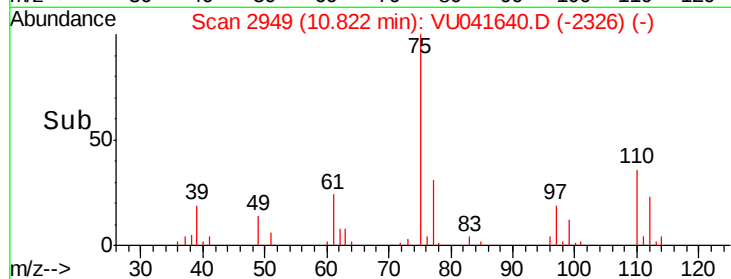
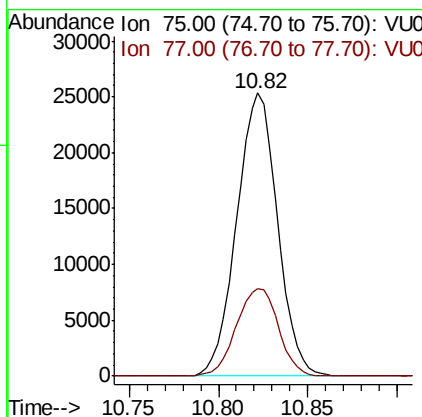
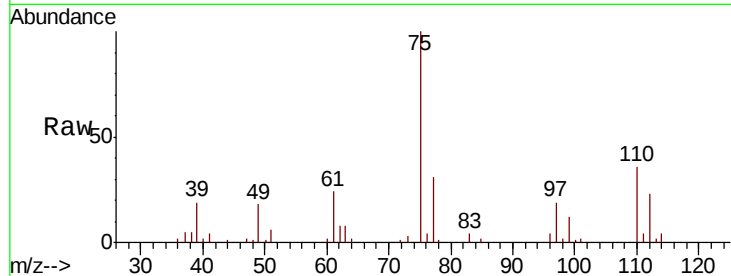




#59
 1,2,3-Trichloropropane
 Concen: 5.470 ug/L
 RT: 10.82 min Scan# 2949
 Delta R.T. 0.00 min
 Lab File: VU041640.D
 Acq: 15 Dec 2020 16:37

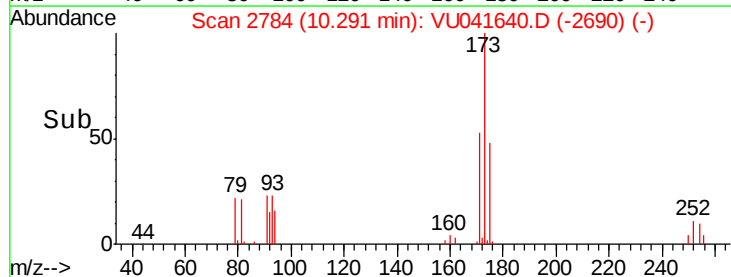
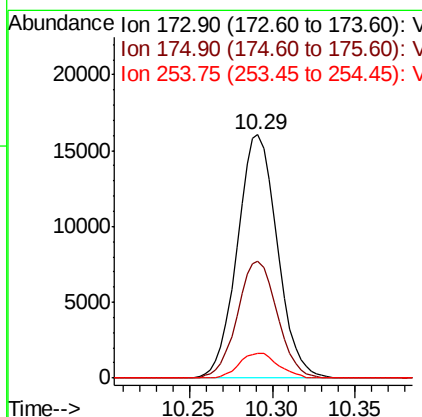
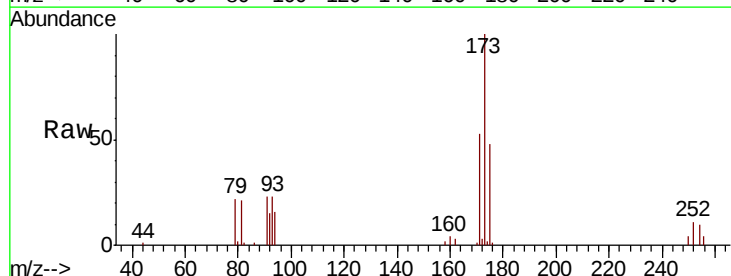
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00517

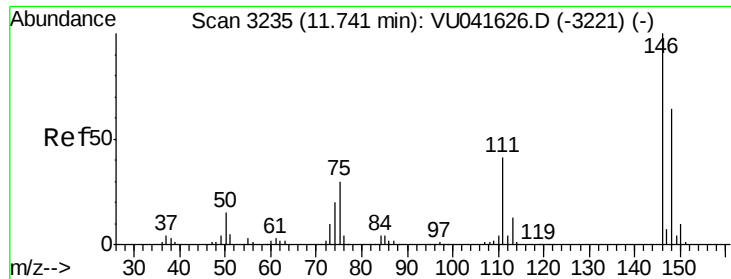
Tot Ion: 75 Resp: 40266
 Ion Ratio Lower Upper
 75 100
 77 31.9 26.2 39.2



#61
 Bromoform
 Concen: 5.733 ug/L
 RT: 10.29 min Scan# 2784
 Delta R.T. 0.00 min
 Lab File: VU041640.D
 Acq: 15 Dec 2020 16:37

Tgt Ion: 173 Resp: 26926
 Ion Ratio Lower Upper
 173 100
 175 47.8 37.3 55.9
 254 10.1 7.4 11.2





#62

1,3-Dichlorobenzene

Concen: 5.082 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU041640.D

Acq: 15 Dec 2020 16:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD00517

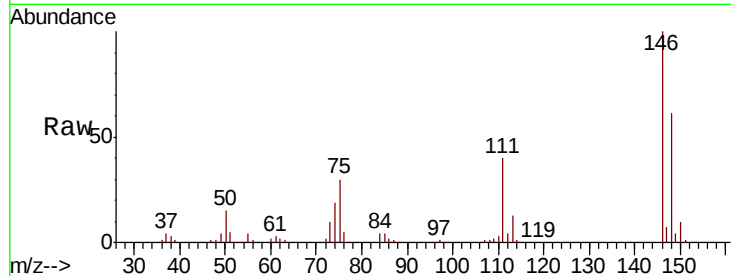
Tot Ion:146 Resp: 96563

Ion Ratio Lower Upper

146 100

111 39.6 30.0 55.8

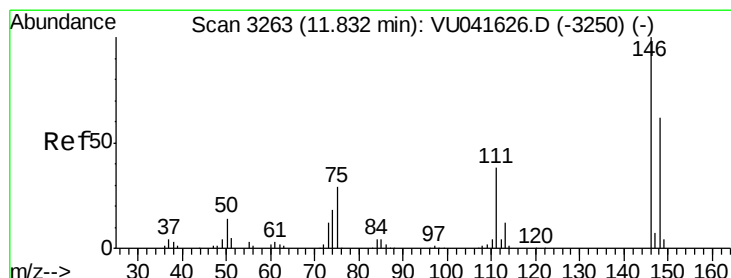
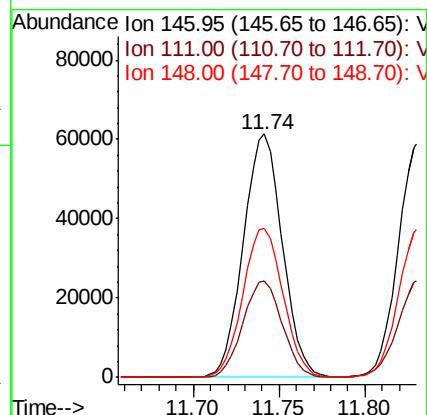
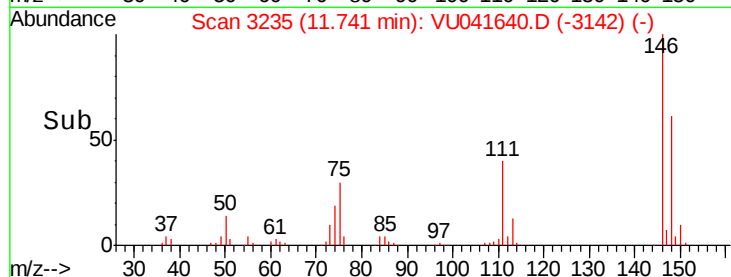
148 61.0 44.9 83.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.976 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. 0.00 min

Lab File: VU041640.D

Acq: 15 Dec 2020 16:37

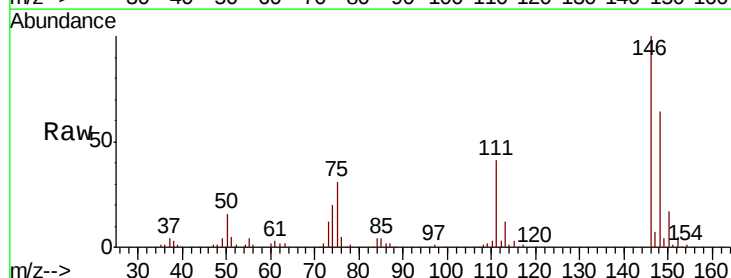
Tgt Ion:146 Resp: 95063

Ion Ratio Lower Upper

146 100

111 41.4 27.9 51.9

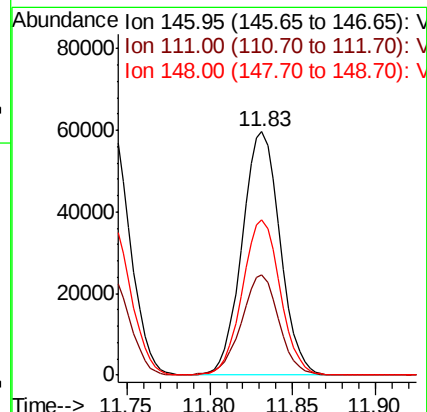
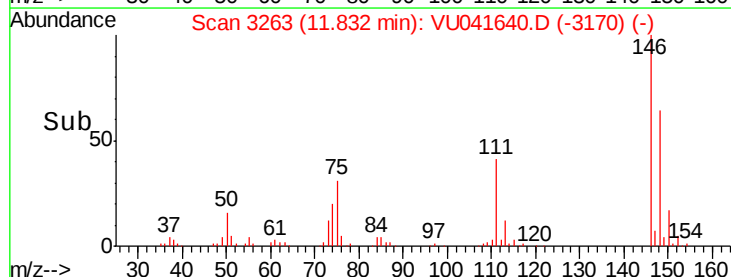
148 63.6 45.0 83.6

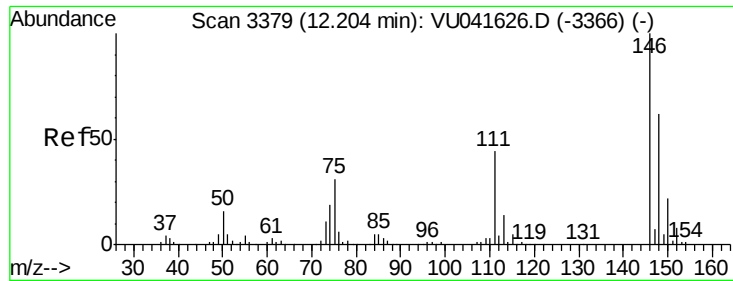


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.056 ug/L

RT: 12.21 min Scan# 3380

Delta R.T. 0.00 min

Lab File: VU041640.D

Acq: 15 Dec 2020 16:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD00517

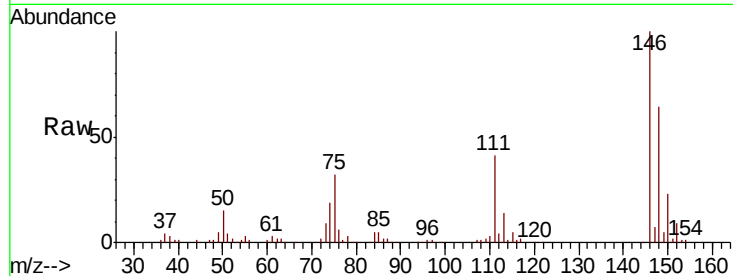
Tot Ion:146 Resp: 94080

Ion Ratio Lower Upper

146 100

111 41.0 35.0 52.6

148 63.7 51.0 76.6

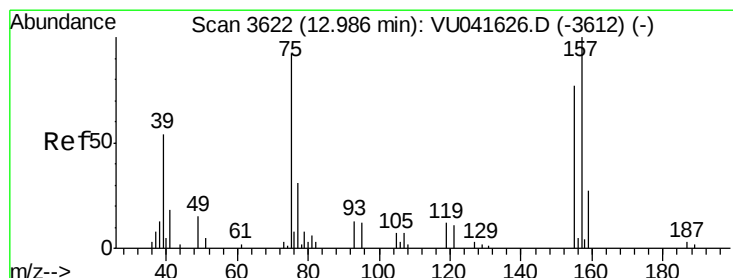
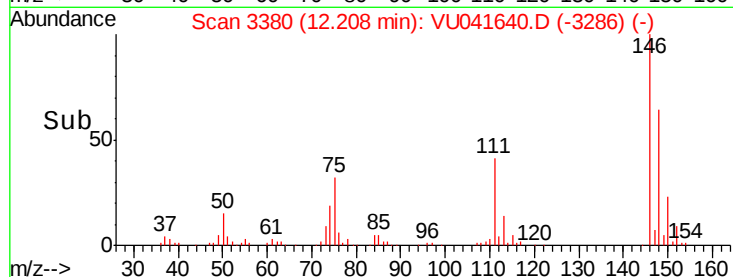
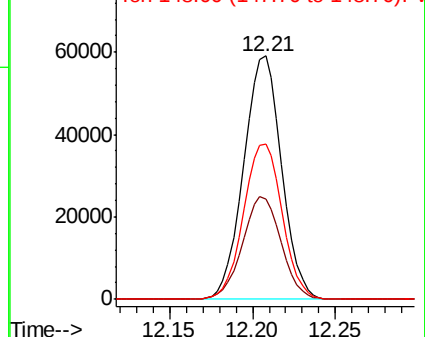


Abundance

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



#66

1,2-Dibromo-3-chloropropane

Concen: 5.076 ug/L

RT: 12.99 min Scan# 3623

Delta R.T. 0.00 min

Lab File: VU041640.D

Acq: 15 Dec 2020 16:37

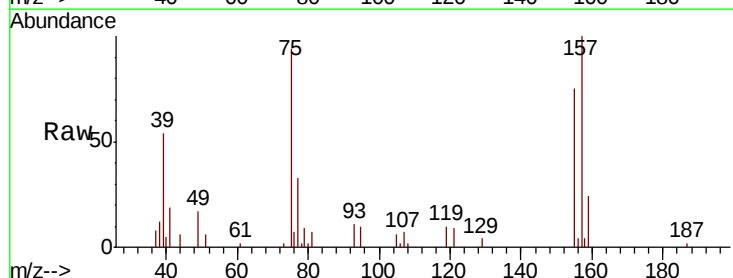
Tgt Ion: 75 Resp: 8857

Ion Ratio Lower Upper

75 100

155 80.0 57.4 86.0

157 106.3 72.4 108.6

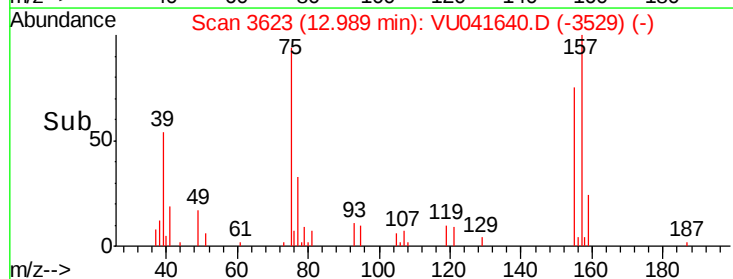
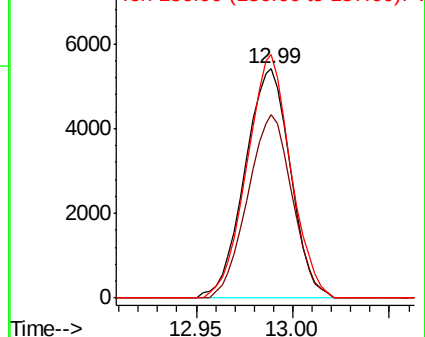


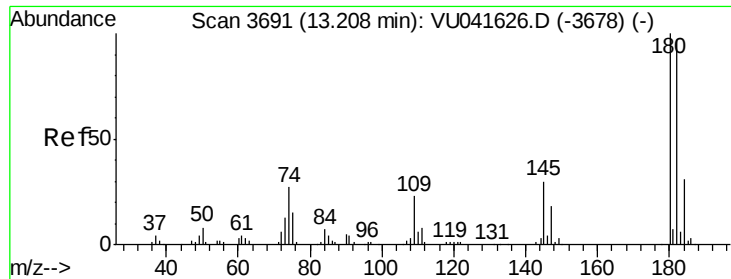
Abundance

Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

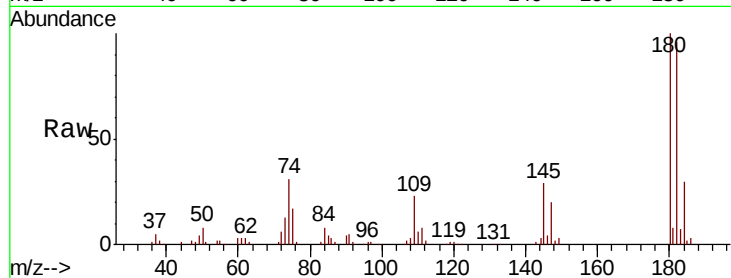




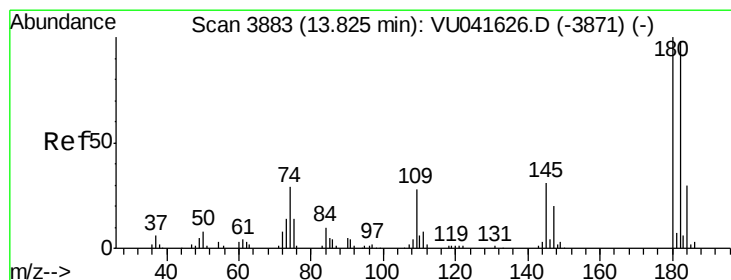
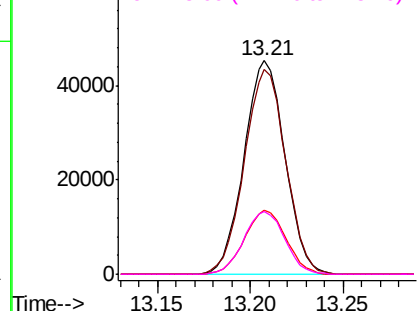
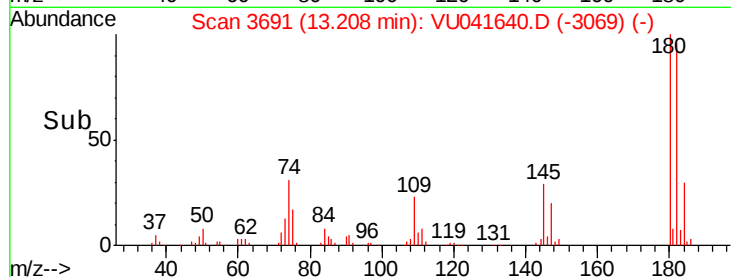
#67
 1,3,5-Trichlorobenzene
 Concen: 4.796 ug/L
 RT: 13.21 min Scan# 3691
 Delta R.T. 0.00 min
 Lab File: VU041640.D
 Acq: 15 Dec 2020 16:37

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00517

Tot Ion:180 Resp: 69174
 Ion Ratio Lower Upper
 180 100
 182 97.1 76.3 114.5
 184 30.5 24.1 36.1
 145 29.5 24.1 36.1

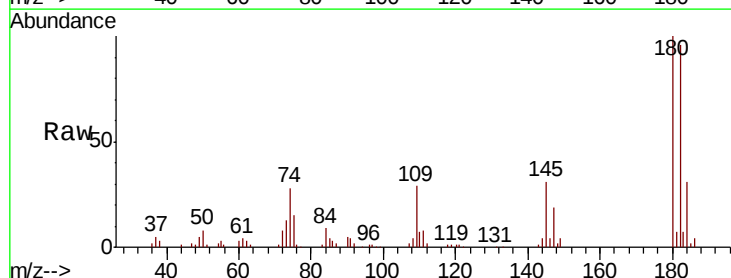


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

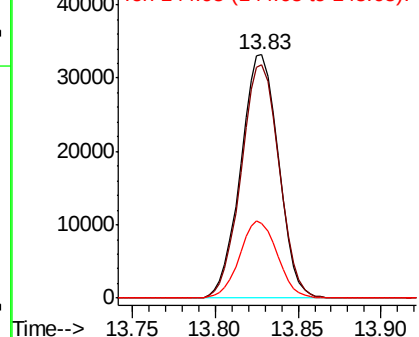
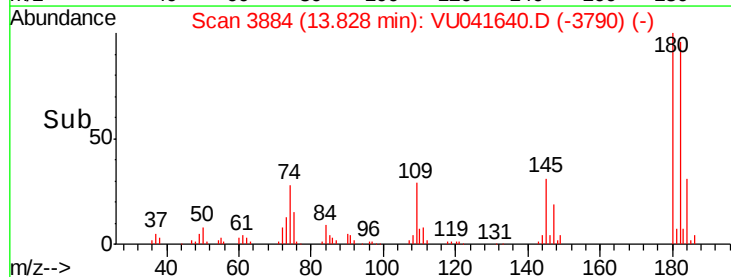


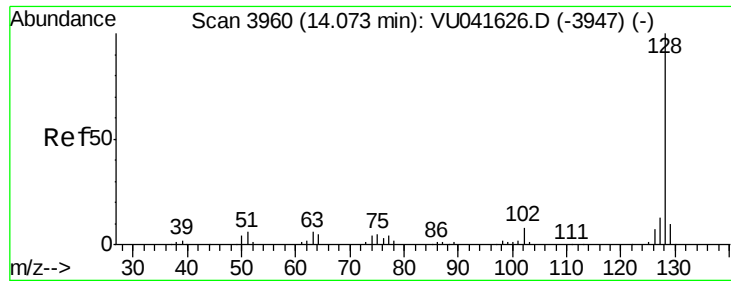
#68
 1,2,4-trichlorobenzene
 Concen: 4.358 ug/L
 RT: 13.83 min Scan# 3884
 Delta R.T. 0.00 min
 Lab File: VU041640.D
 Acq: 15 Dec 2020 16:37

Tgt Ion:180 Resp: 52750
 Ion Ratio Lower Upper
 180 100
 182 96.3 75.4 113.0
 145 31.6 24.5 36.7



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: 4.096 ug/L

RT: 14.07 min Scan# 3960

Delta R.T. 0.00 min

Lab File: VU041640.D

Acq: 15 Dec 2020 16:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD00517

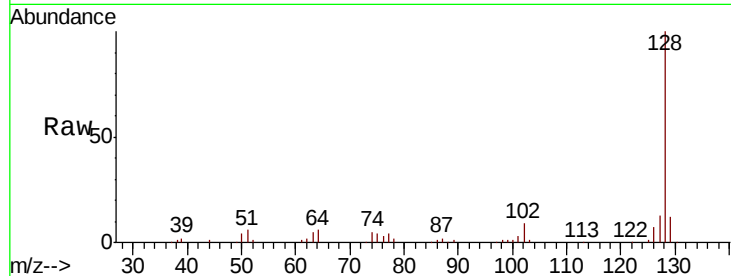
Tot Ion:128 Resp: 102628

Ion Ratio Lower Upper

128 100

129 11.2 8.7 13.1

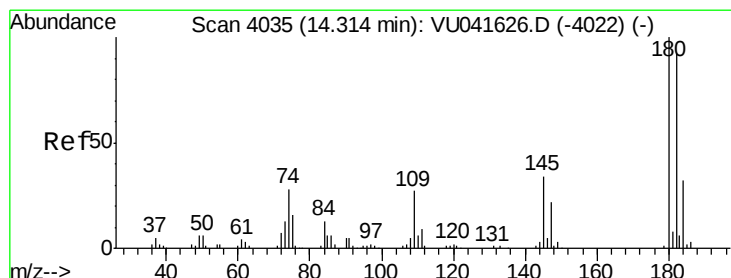
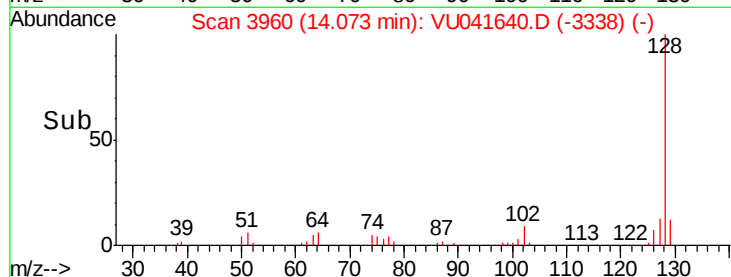
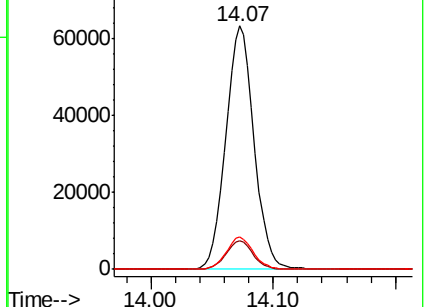
127 12.7 10.2 15.4



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: 4.566 ug/L

RT: 14.32 min Scan# 4036

Delta R.T. 0.00 min

Lab File: VU041640.D

Acq: 15 Dec 2020 16:37

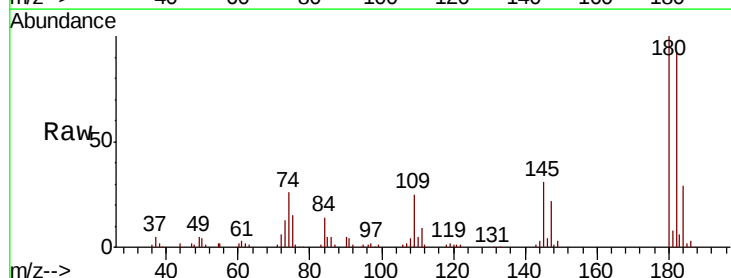
Tgt Ion:180 Resp: 52674

Ion Ratio Lower Upper

180 100

182 95.7 77.0 115.4

145 31.8 26.4 39.6



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

