

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091820\
 Data File : VX018504.D
 Acq On : 18 Sep 2020 19:42
 Operator : JC/SP
 Sample : L4058-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-8

Quant Time: Sep 19 01:59:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 17 12:17:36 2020
 Response via : Initial Calibration

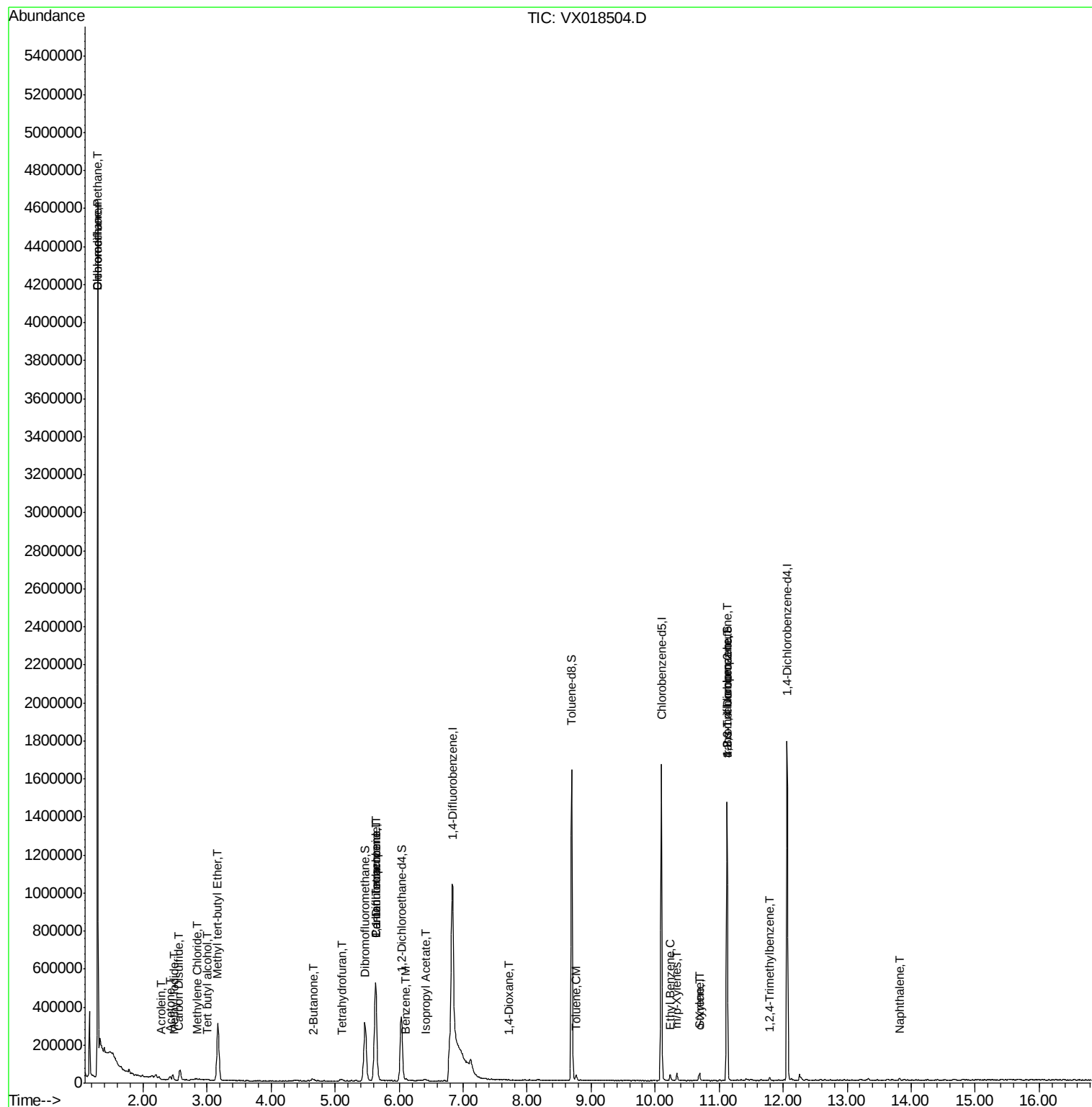
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	489638	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	805734	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	743144	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	372489	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	339782	49.05	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.10%	
35) Dibromofluoromethane	5.46	113	267969	48.11	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.22%	
50) Toluene-d8	8.70	98	957377	47.31	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.62%	
62) 4-Bromofluorobenzene	11.12	95	363745	45.18	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.36%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.29	85	299114	64.434	ug/l	95
3) Chloromethane	1.29	50	34887	6.419	ug/l #	42
10) Methyl Iodide	2.49	142	405	4.977	ug/l #	78
11) Tert butyl alcohol	3.01	59	5723	4.749	ug/l #	72
13) Acrolein	2.28	56	421	0.552	ug/l #	68
16) Acetone	2.42	43	21179	7.995	ug/l	95
17) Carbon Disulfide	2.56	76	7043	0.497	ug/l #	86
19) Methyl tert-butyl Ether	3.17	73	338719	20.349	ug/l	98
20) Methylene Chloride	2.84	84	1849	0.316	ug/l #	70
25) 2-Butanone	4.66	43	5620	1.362	ug/l	93
29) Tetrahydrofuran	5.10	42	6166	2.371	ug/l #	75
36) 1,1-Dichloropropene	5.63	75	38182	4.882	ug/l #	41
38) Carbon Tetrachloride	5.64	117	51300	5.923	ug/l #	18
40) Benzene	6.11	78	10100	0.451	ug/l	98
43) Isopropyl Acetate	6.40	43	4085	0.295	ug/l #	67
49) 1,4-Dioxane	7.70	88	231	2.073	ug/l #	1
52) Toluene	8.77	92	9612	0.682	ug/l	98
67) Ethyl Benzene	10.23	91	17734	0.670	ug/l	90
68) m/p-Xylenes	10.34	106	8598	0.858	ug/l	100
69) o-Xylene	10.68	106	4638	0.489	ug/l	98
70) Styrene	10.70	104	12049	0.735	ug/l	100
76) 1,2,3-Trichloropropane	11.12	75	188027	24.021	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	188027	61.553	ug/l #	13
84) 1,2,4-Trimethylbenzene	11.79	105	8660	0.404	ug/l	95
95) Naphthalene	13.82	128	6663	0.274	ug/l #	91

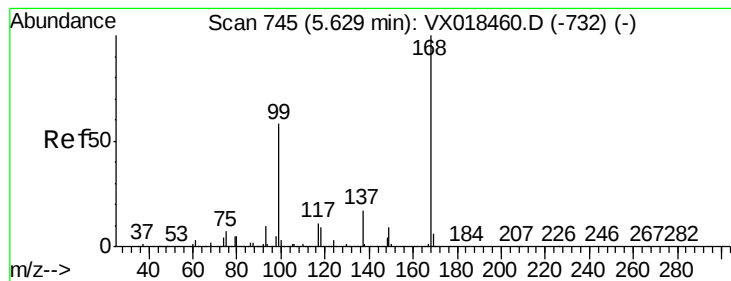
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Sep 17 12:17:36 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX018504.D

Acq: 18 Sep 2020 19:42

Instrument :

MSVOA_X

ClientSampleId :

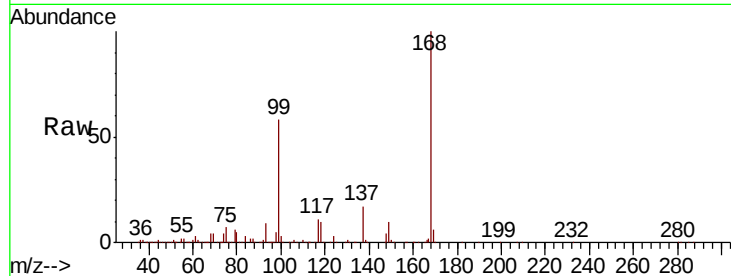
MW-8

Tot Ion:168 Resp: 489638

Ion Ratio Lower Upper

168 100

99 57.7 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

200000

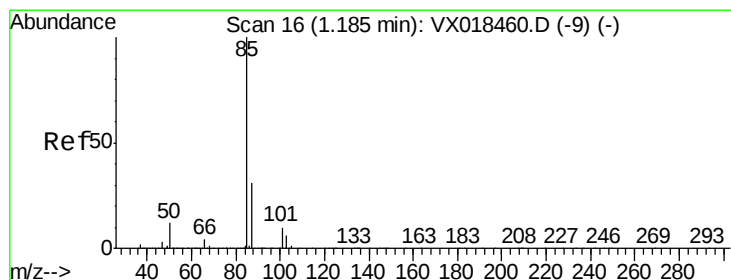
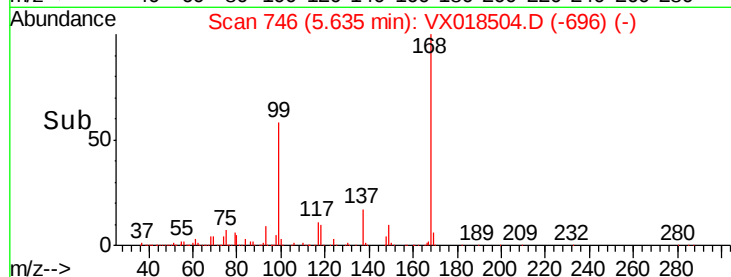
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 64.434 ug/l

RT: 1.29 min Scan# 33

Delta R.T. 0.10 min

Lab File: VX018504.D

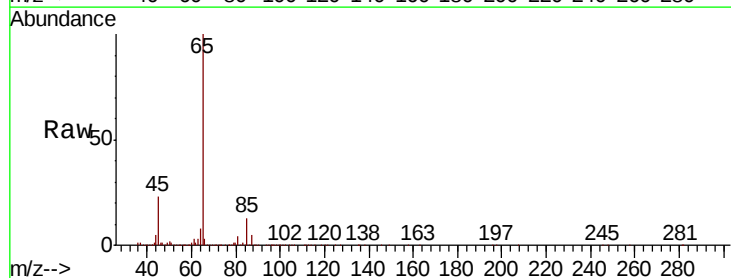
Acq: 18 Sep 2020 19:42

Tgt Ion: 85 Resp: 299114

Ion Ratio Lower Upper

85 100

87 33.9 15.7 47.1



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.29

400000

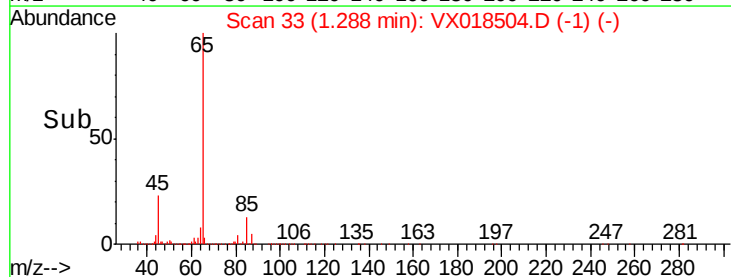
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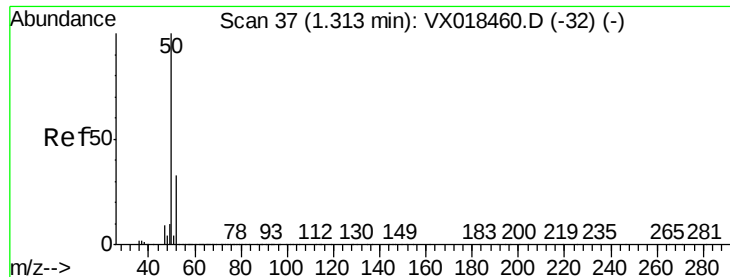
200000

100000

0

Time-->





#3

Chloromethane

Concen: 6.419 ug/l

RT: 1.29 min Scan# 33

Delta R.T. -0.02 min

Lab File: VX018504.D

Acq: 18 Sep 2020 19:42

Instrument :

MSVOA_X

ClientSampleId :

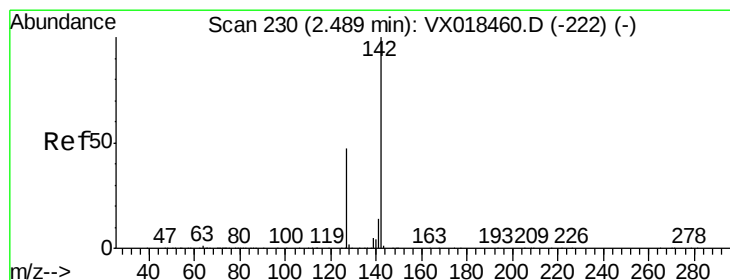
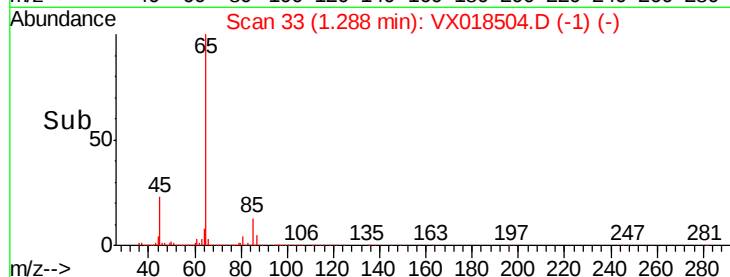
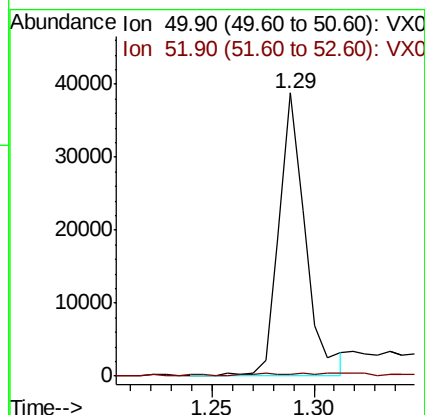
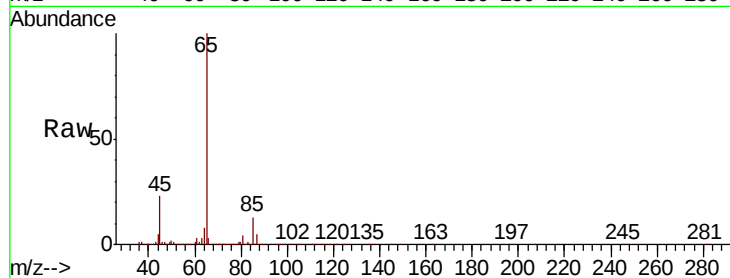
MW-8

Tot Ion: 50 Resp: 34887

Ion Ratio Lower Upper

50 100

52 0.3 26.6 40.0#



#10

Methyl Iodide

Concen: 4.977 ug/l

RT: 2.49 min Scan# 230

Delta R.T. 0.00 min

Lab File: VX018504.D

Acq: 18 Sep 2020 19:42

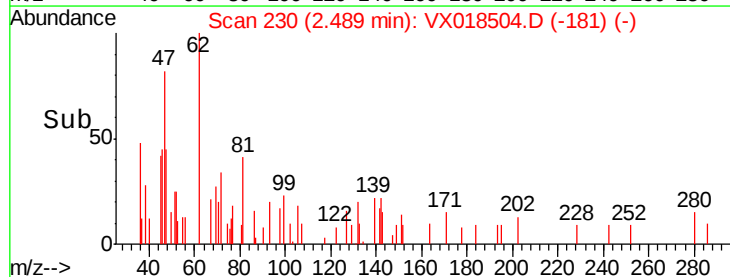
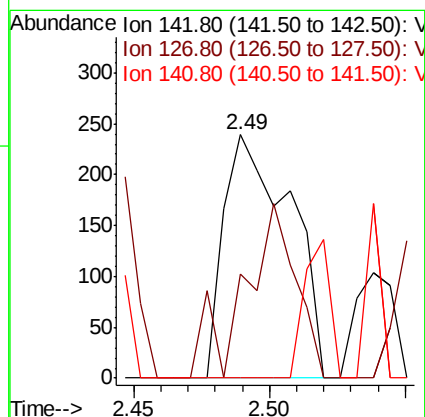
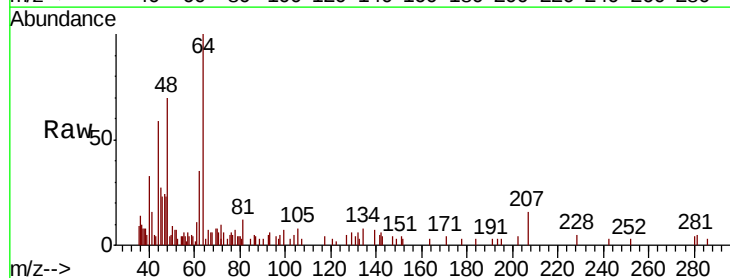
Tgt Ion: 142 Resp: 405

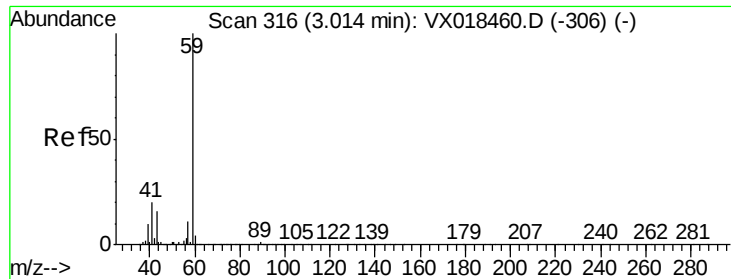
Ion Ratio Lower Upper

142 100

127 56.5 36.0 54.0#

141 0.0 11.9 17.9#

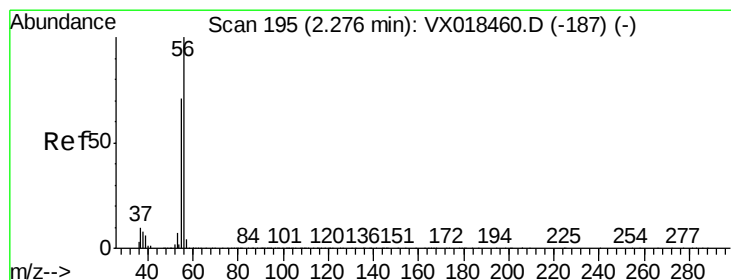
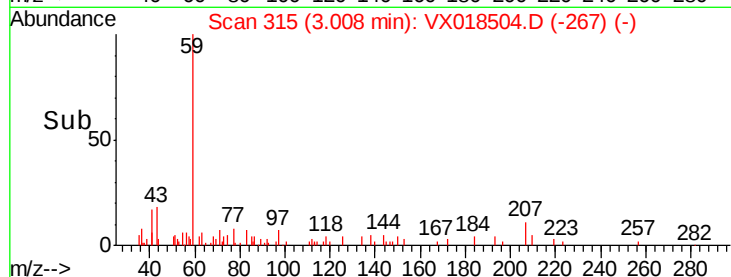
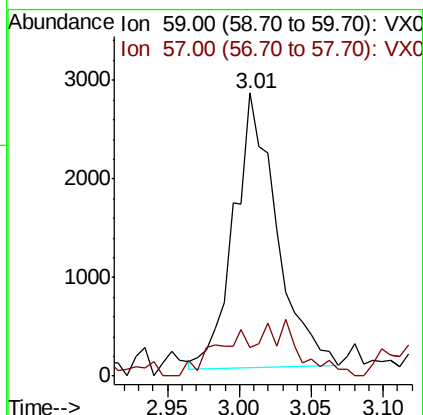
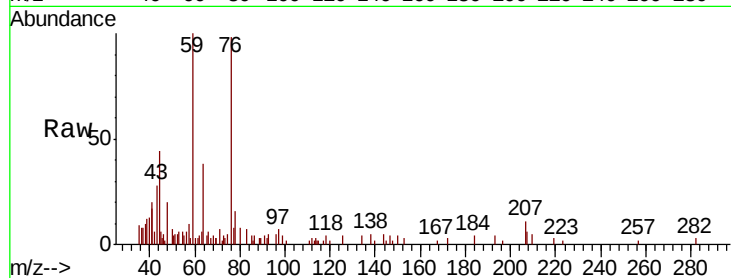




#11
Tert butyl alcohol
Concen: 4.749 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX018504.D
Acq: 18 Sep 2020 19:42

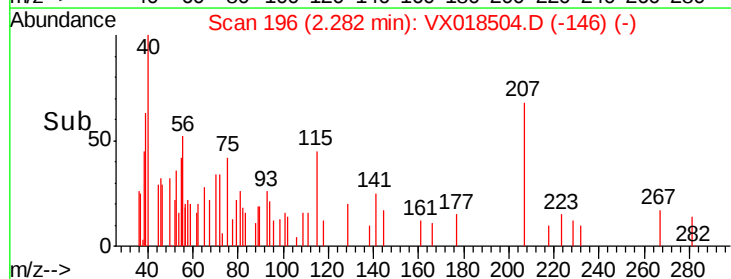
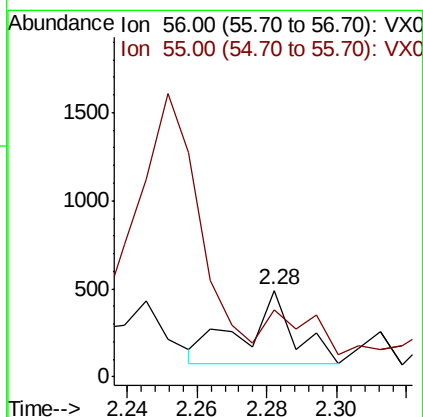
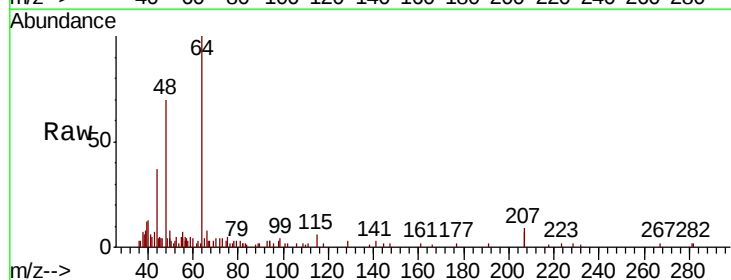
Instrument :
MSVOA_X
ClientSampleId :
MW-8

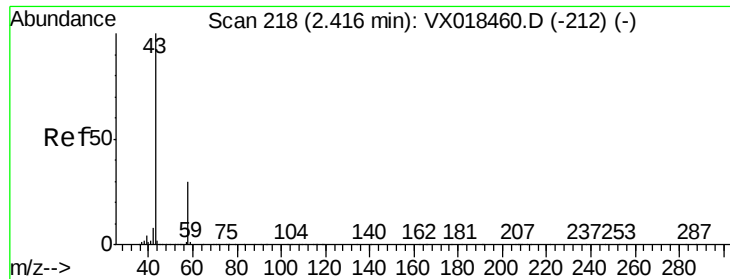
Tot Ion: 59 Resp: 5723
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 0.552 ug/l
RT: 2.28 min Scan# 196
Delta R.T. 0.01 min
Lab File: VX018504.D
Acq: 18 Sep 2020 19:42

Tgt Ion: 56 Resp: 421
Ion Ratio Lower Upper
56 100
55 45.8 58.2 87.4#

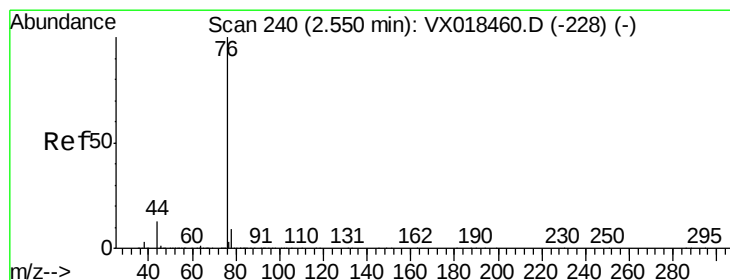
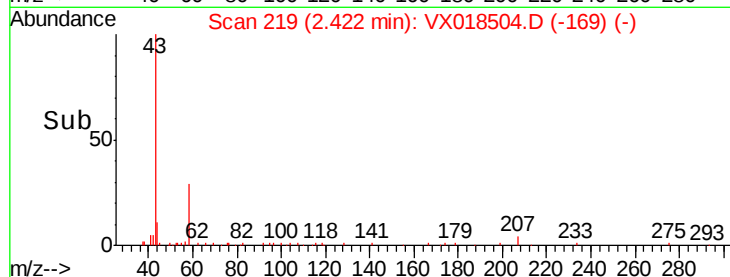
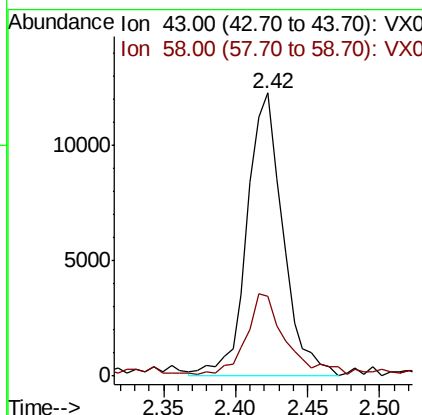
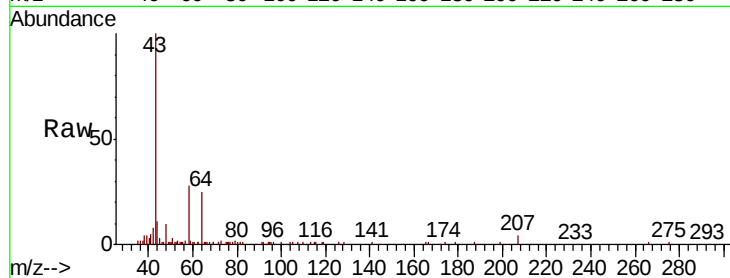




#16
Acetone
Concen: 7.995 ug/l
RT: 2.42 min Scan# 219
Delta R.T. 0.01 min
Lab File: VX018504.D
Acq: 18 Sep 2020 19:42

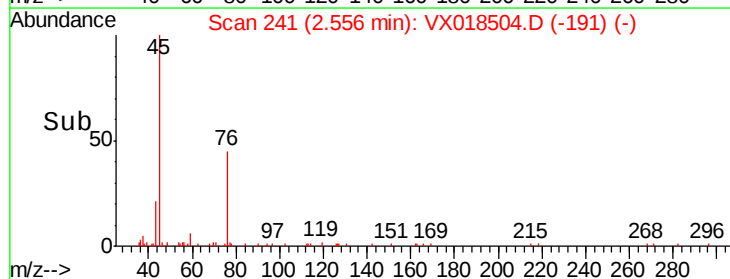
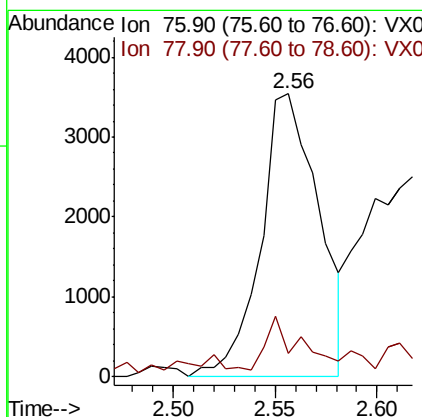
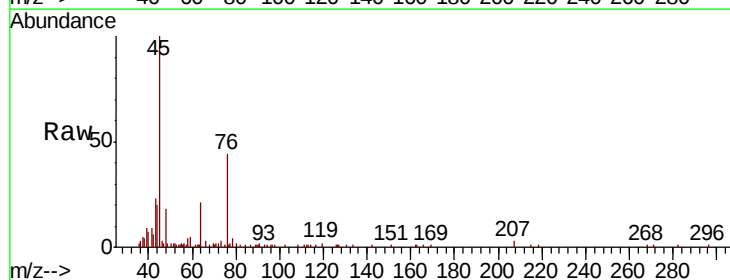
Instrument :
MSVOA_X
ClientSampled :
MW-8

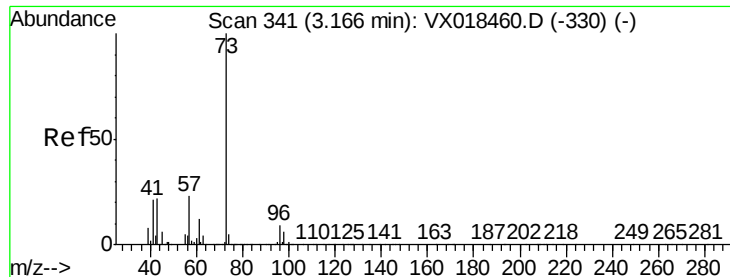
Tot Ion: 43 Resp: 21179
Ion Ratio Lower Upper
43 100
58 27.1 24.0 36.0



#17
Carbon Disulfide
Concen: 0.497 ug/l
RT: 2.56 min Scan# 241
Delta R.T. 0.01 min
Lab File: VX018504.D
Acq: 18 Sep 2020 19:42

Tgt Ion: 76 Resp: 7043
Ion Ratio Lower Upper
76 100
78 3.7 7.0 10.4#



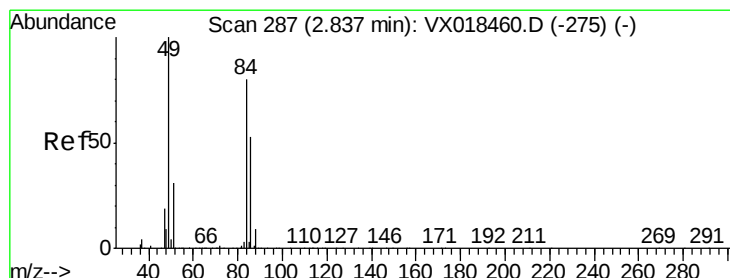
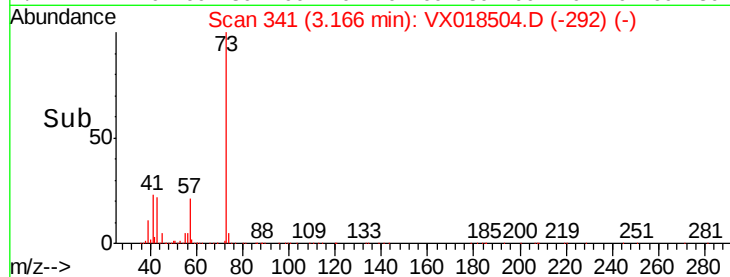
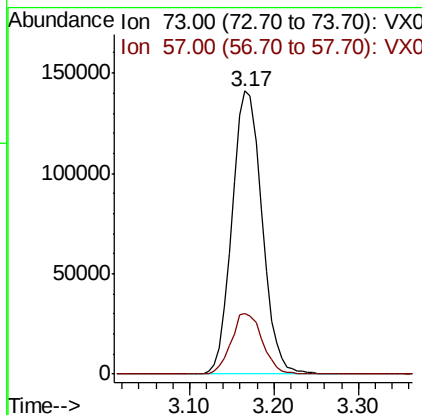
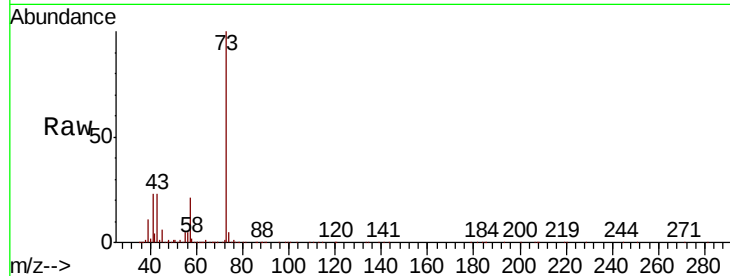


#19

Methyl tert-butyl Ether
 Concen: 20.349 ug/l
 RT: 3.17 min Scan# 341
 Delta R.T. 0.00 min
 Lab File: VX018504.D
 Acq: 18 Sep 2020 19:42

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-8

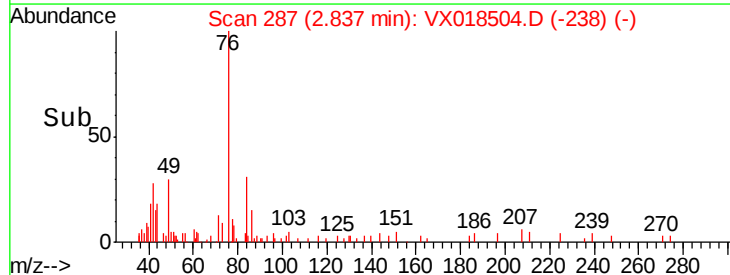
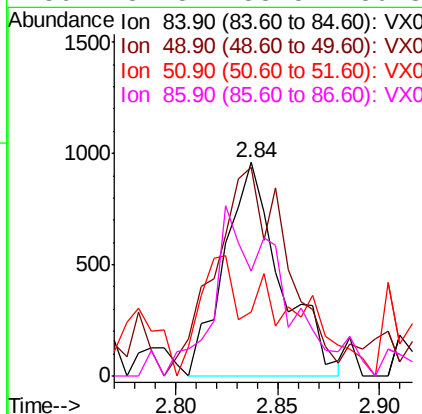
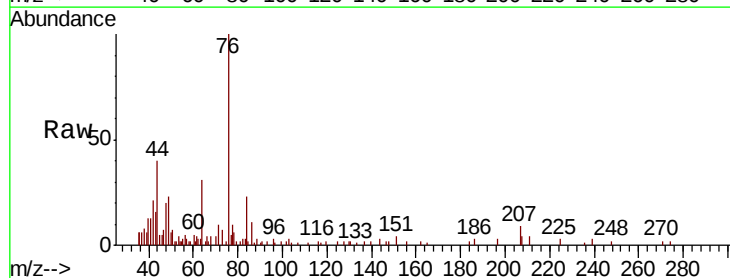
Tot Ion: 73 Resp: 338719
 Ion Ratio Lower Upper
 73 100
 57 21.3 18.0 27.0

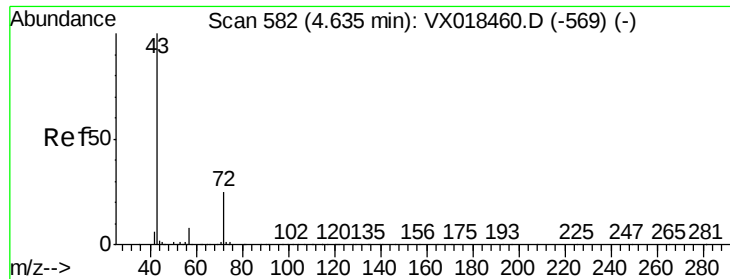


#20

Methylene Chloride
 Concen: 0.316 ug/l
 RT: 2.84 min Scan# 287
 Delta R.T. -0.00 min
 Lab File: VX018504.D
 Acq: 18 Sep 2020 19:42

Tgt Ion: 84 Resp: 1849
 Ion Ratio Lower Upper
 84 100
 49 91.6 100.6 151.0#
 51 26.4 30.9 46.3#
 86 37.8 53.5 80.3#





#25

2-Butanone

Concen: 1.362 ug/l

RT: 4.66 min Scan# 586

Delta R.T. 0.02 min

Lab File: VX018504.D

Acq: 18 Sep 2020 19:42

Instrument :

MSVOA_X

ClientSampleId :

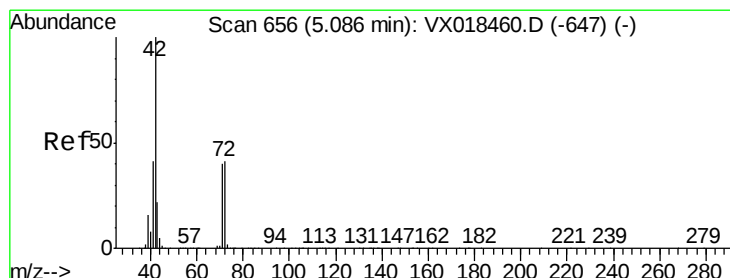
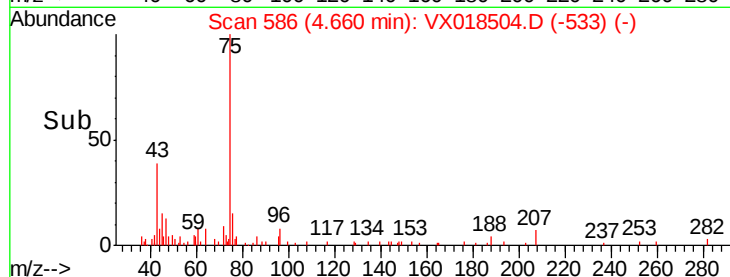
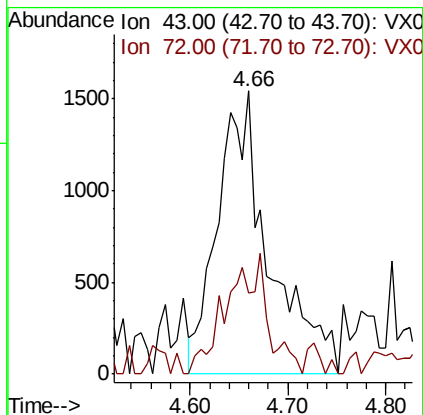
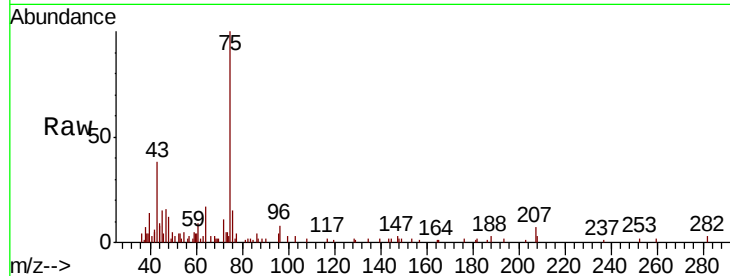
MW-8

Tot Ion: 43 Resp: 5620

Ion Ratio Lower Upper

43 100

72 28.6 20.2 30.4



#29

Tetrahydrofuran

Concen: 2.371 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX018504.D

Acq: 18 Sep 2020 19:42

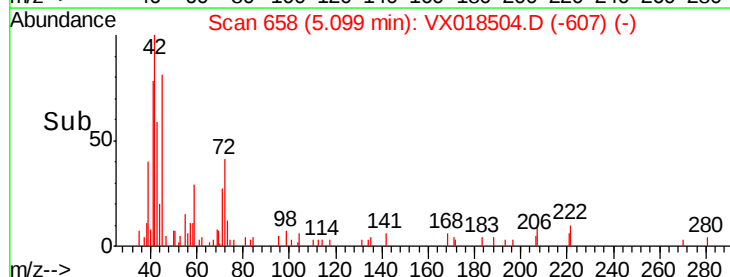
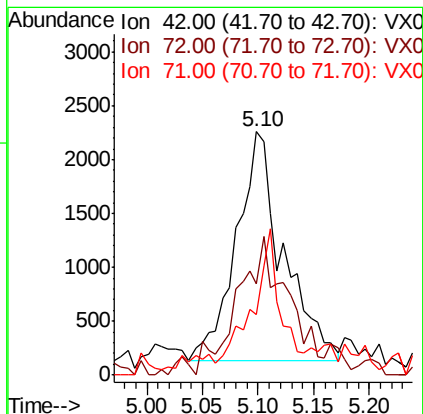
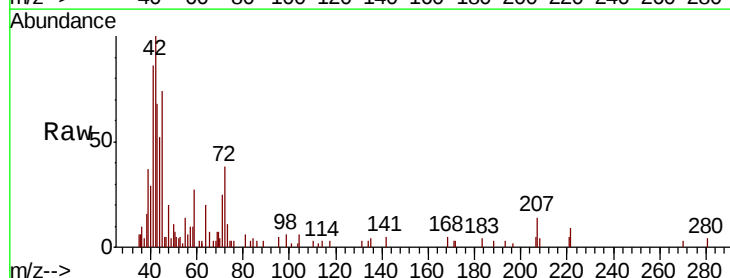
Tgt Ion: 42 Resp: 6166

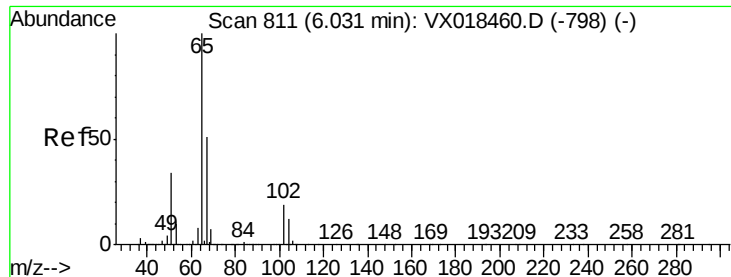
Ion Ratio Lower Upper

42 100

72 65.8 34.3 51.5#

71 32.4 32.1 48.1





#33

1,2-Dichloroethane-d4

Concen: 49.054 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX018504.D

Acq: 18 Sep 2020 19:42

Instrument :

MSVOA_X

ClientSampled :

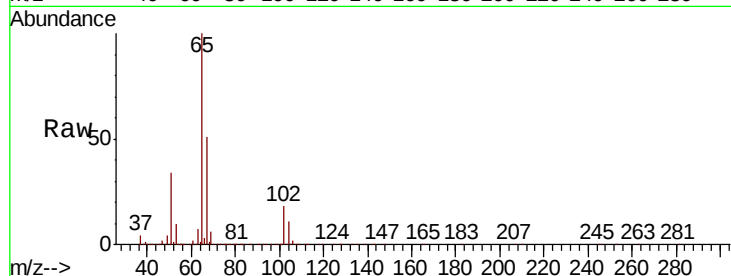
MW-8

Tot Ion: 65 Resp: 339782

Ion Ratio Lower Upper

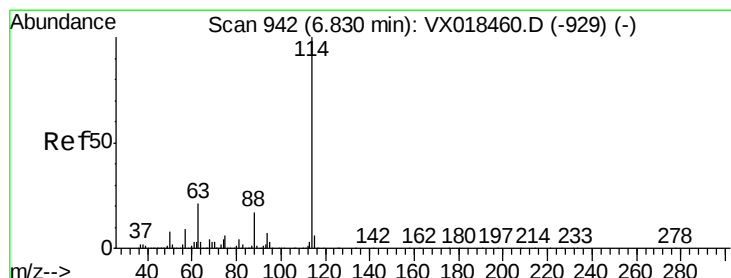
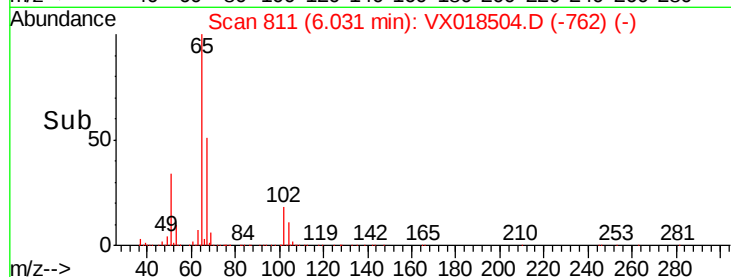
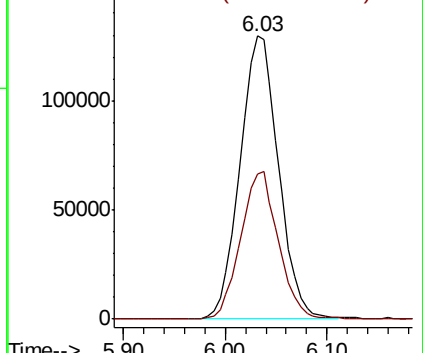
65 100

67 51.3 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX018504.D

Acq: 18 Sep 2020 19:42

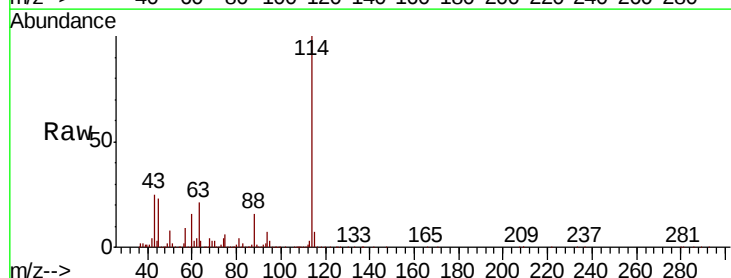
Tgt Ion: 114 Resp: 805734

Ion Ratio Lower Upper

114 100

63 20.7 0.0 42.8

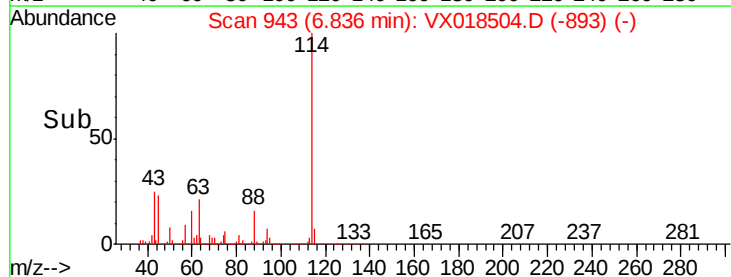
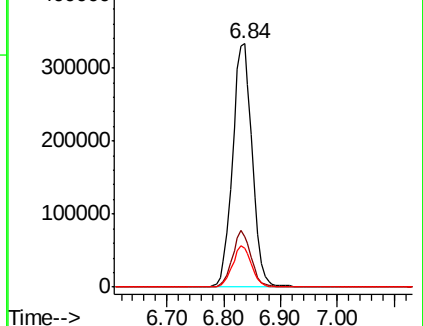
88 16.1 0.0 33.6

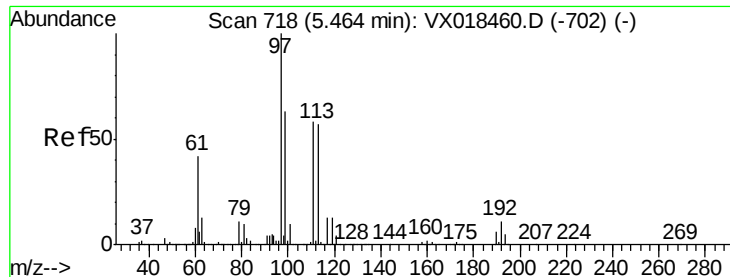


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.108 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.00 min

Lab File: VX018504.D

Acq: 18 Sep 2020 19:42

Instrument :

MSVOA_X

ClientSampled :

MW-8

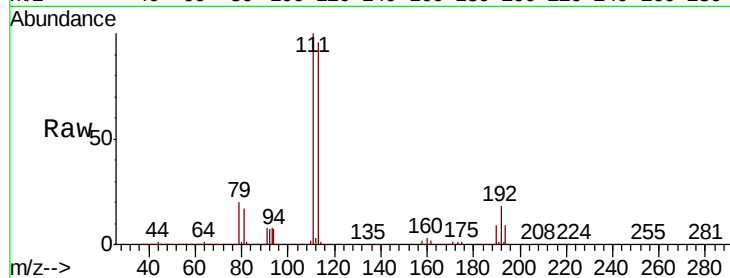
Tot Ion:113 Resp: 267969

Ion Ratio Lower Upper

113 100

111 102.6 81.4 122.2

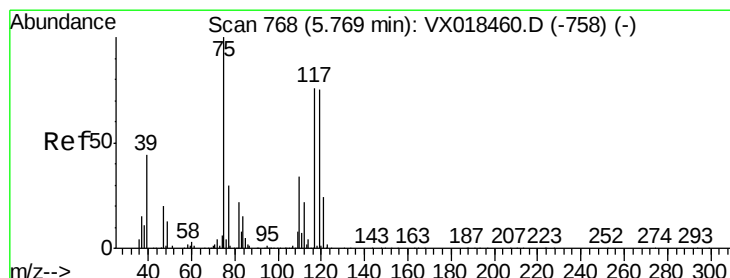
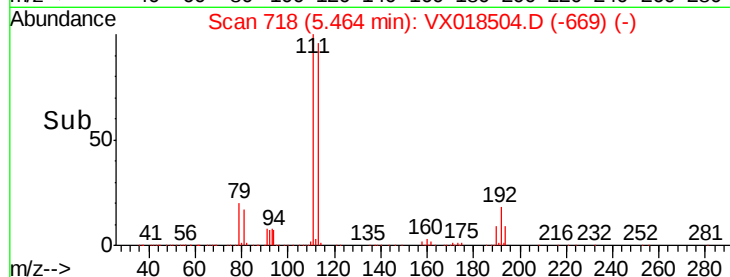
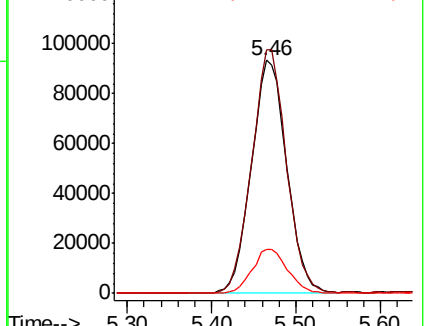
192 19.0 16.6 24.8



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.882 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX018504.D

Acq: 18 Sep 2020 19:42

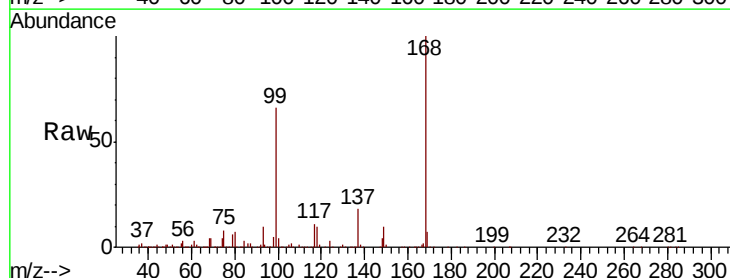
Tgt Ion: 75 Resp: 38182

Ion Ratio Lower Upper

75 100

110 0.0 17.6 52.8#

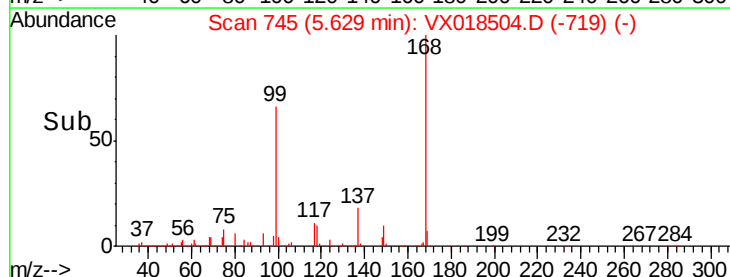
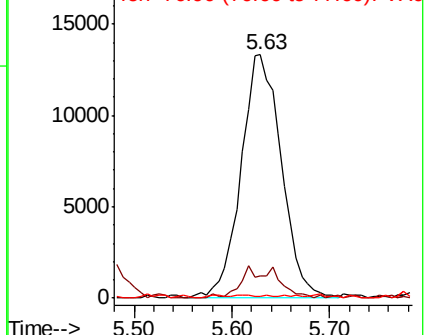
77 0.1 25.0 37.6#

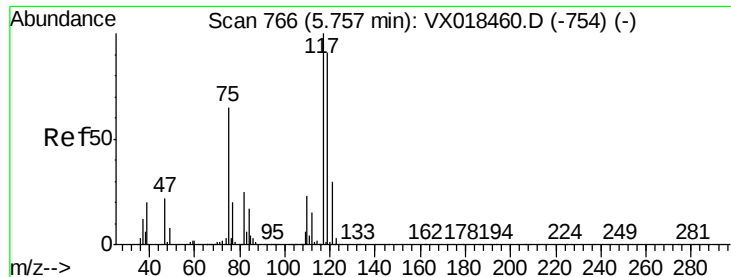


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.923 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX018504.D

Acq: 18 Sep 2020 19:42

Instrument :

MSVOA_X

ClientSampled :

MW-8

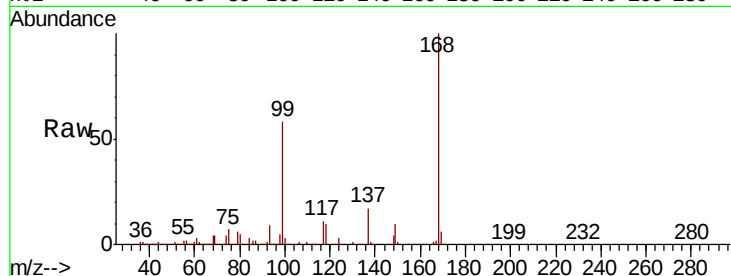
Tot Ion:117 Resp: 51300

Ion Ratio Lower Upper

117 100

119 4.2 72.3 108.5#

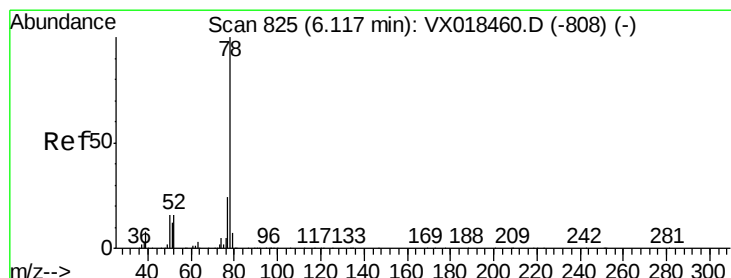
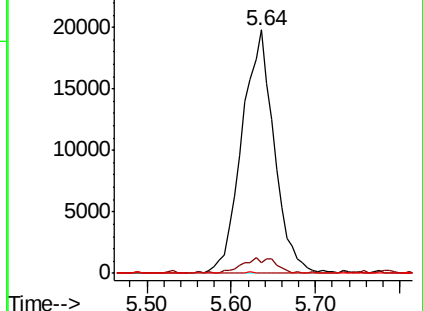
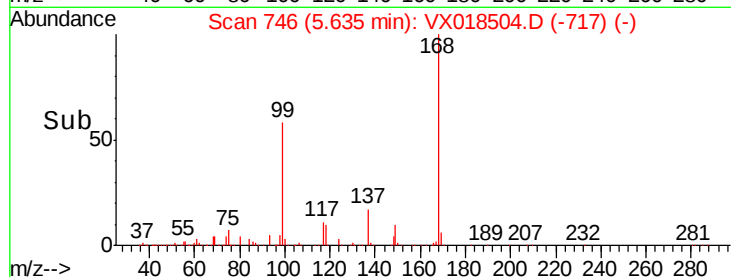
121 0.0 23.8 35.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#40

Benzene

Concen: 0.451 ug/l

RT: 6.11 min Scan# 824

Delta R.T. -0.01 min

Lab File: VX018504.D

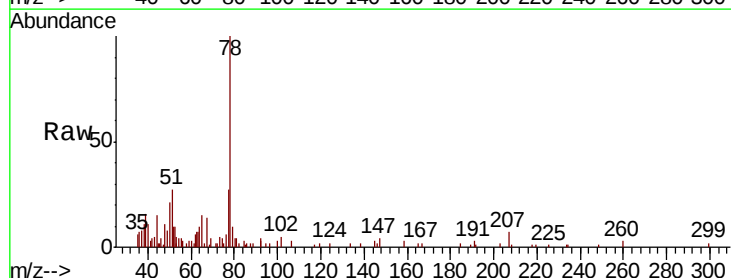
Acq: 18 Sep 2020 19:42

Tgt Ion: 78 Resp: 10100

Ion Ratio Lower Upper

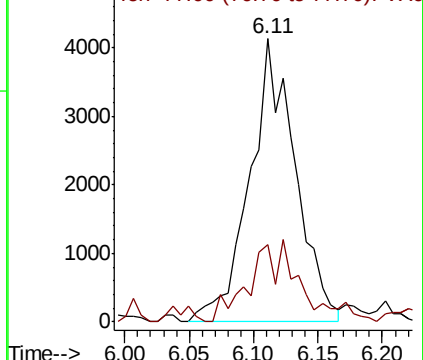
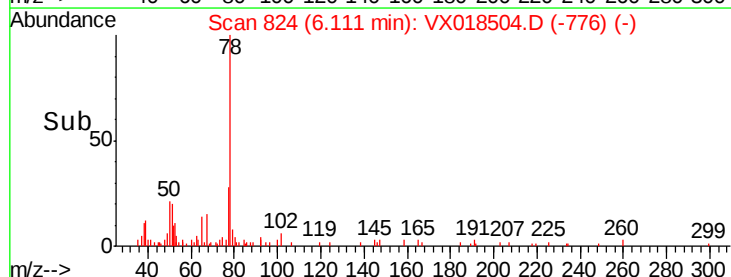
78 100

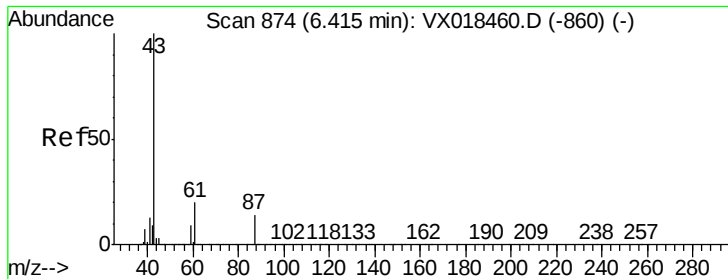
77 22.9 19.0 28.4



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



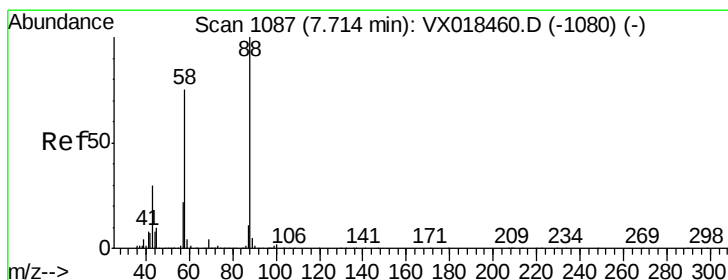
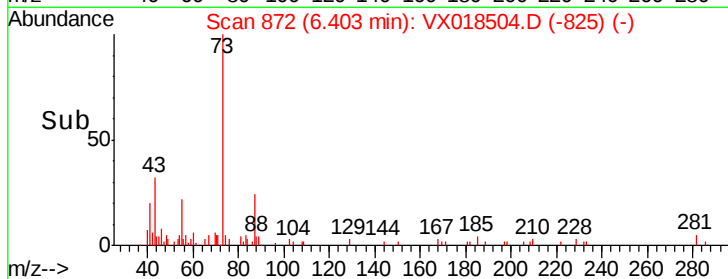
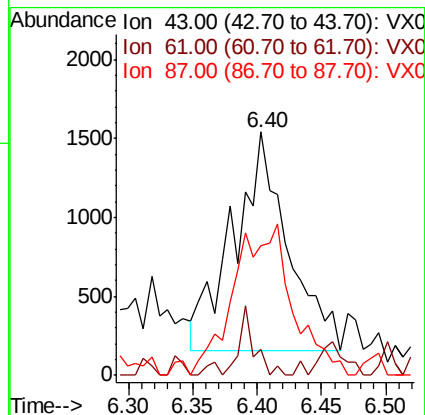
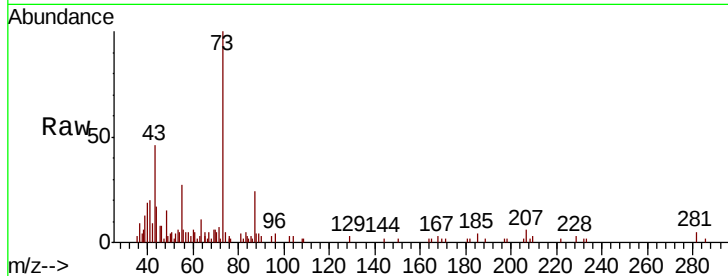


#43

Isopropyl Acetate
 Concen: 0.295 ug/l
 RT: 6.40 min Scan# 872
 Delta R.T. -0.01 min
 Lab File: VX018504.D
 Acq: 18 Sep 2020 19:42

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-8

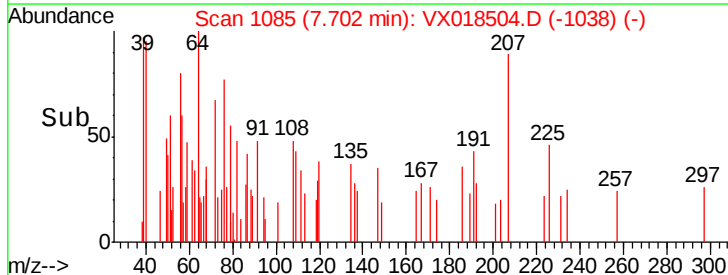
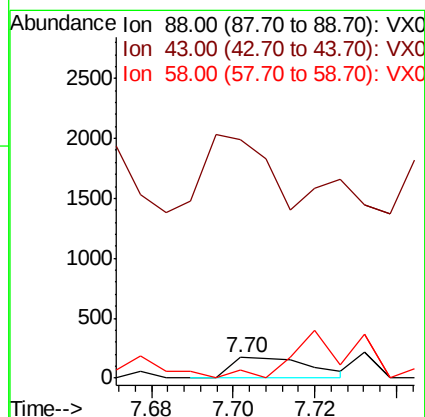
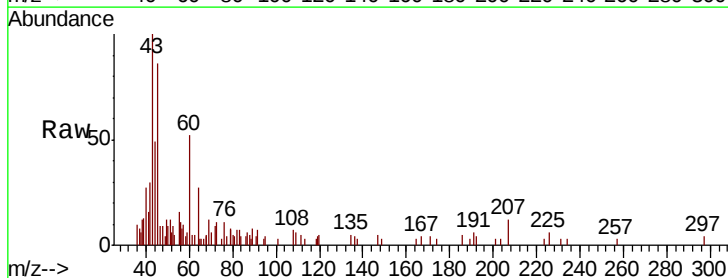
Tot Ion	Ratio	Lower	Upper
43	100		
61	8.6	15.7	23.5#
87	31.6	10.4	15.6#

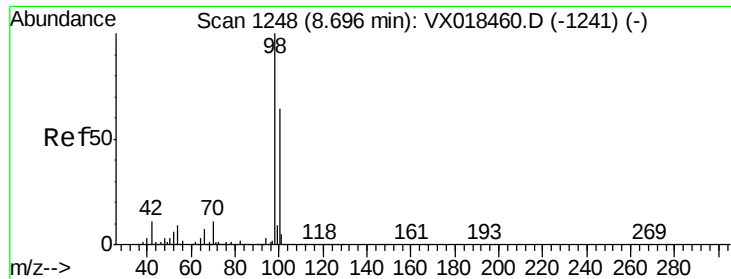


#49

1,4-Dioxane
 Concen: 2.073 ug/l
 RT: 7.70 min Scan# 1085
 Delta R.T. -0.01 min
 Lab File: VX018504.D
 Acq: 18 Sep 2020 19:42

Tgt Ion	Ratio	Lower	Upper
88	100		
43	420.3	29.9	44.9#
58	0.0	59.0	88.6#

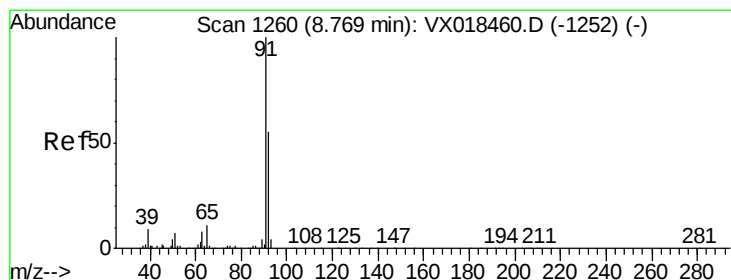
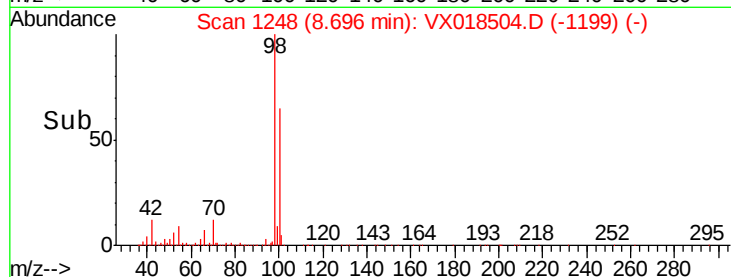
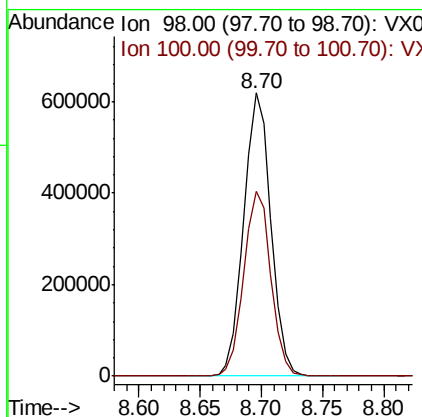
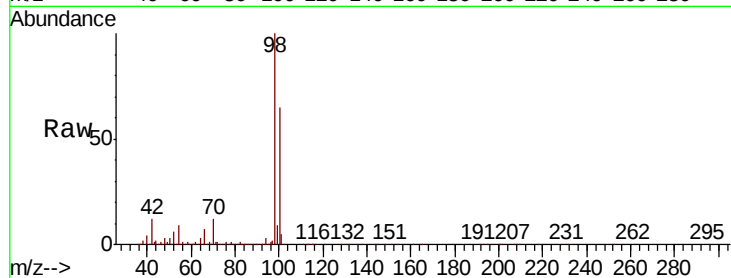




#50
Toluene-d8
Concen: 47.305 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX018504.D
Acq: 18 Sep 2020 19:42

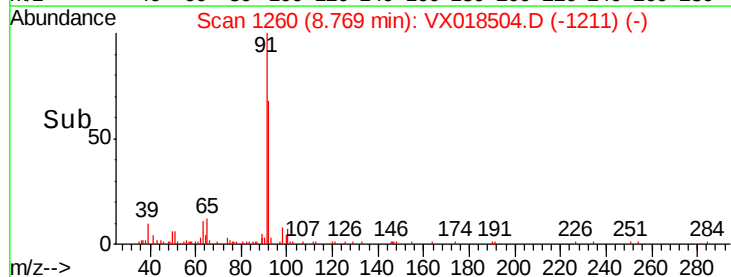
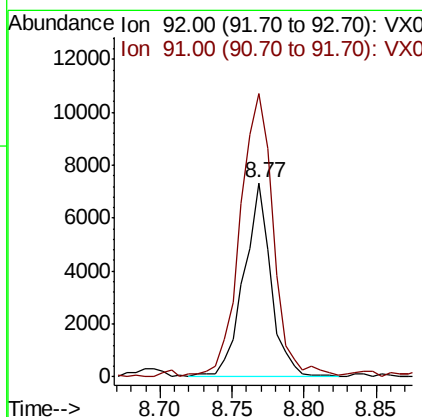
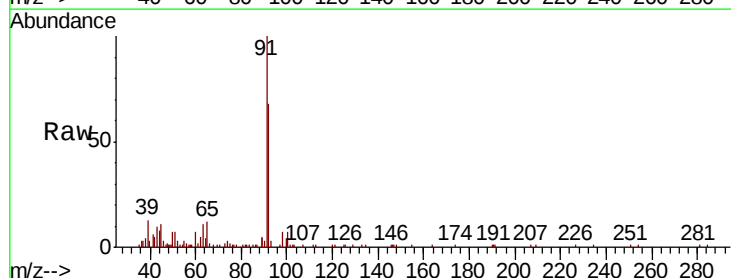
Instrument :
MSVOA_X
ClientSampleId :
MW-8

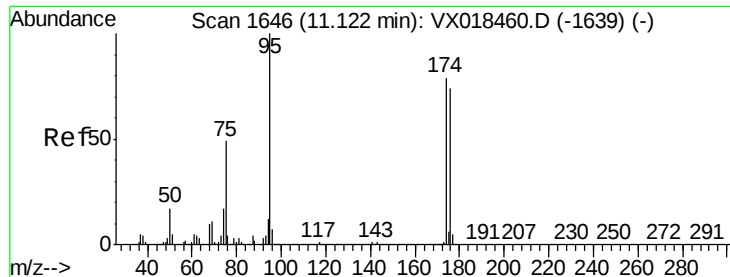
Tot Ion: 98 Resp: 957377
Ion Ratio Lower Upper
98 100
100 65.0 51.7 77.5



#52
Toluene
Concen: 0.682 ug/l
RT: 8.77 min Scan# 1260
Delta R.T. 0.00 min
Lab File: VX018504.D
Acq: 18 Sep 2020 19:42

Tgt Ion: 92 Resp: 9612
Ion Ratio Lower Upper
92 100
91 178.8 140.6 210.8

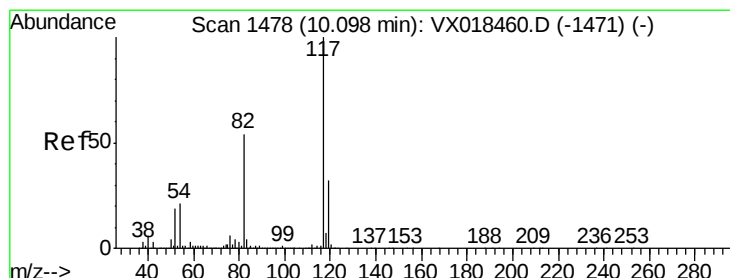
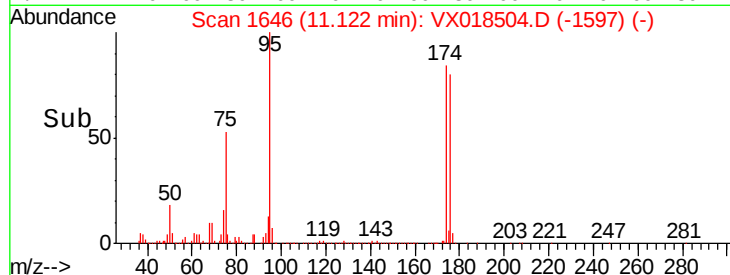
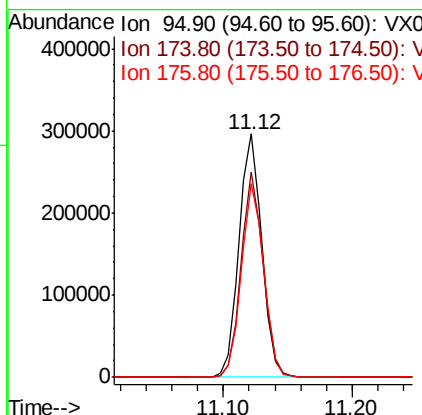
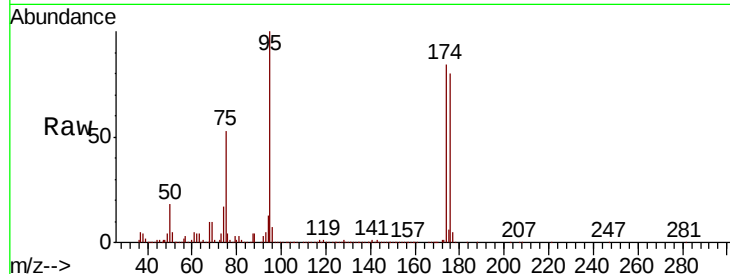




#62
4-Bromofluorobenzene
Concen: 45.184 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX018504.D
Acq: 18 Sep 2020 19:42

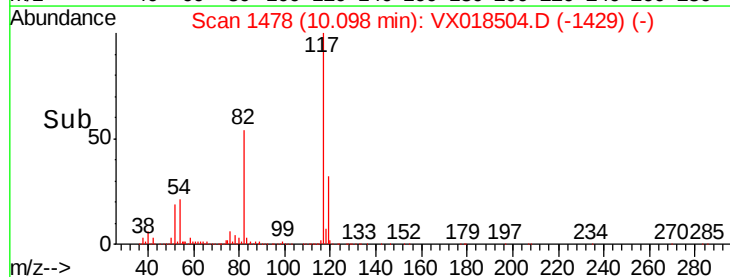
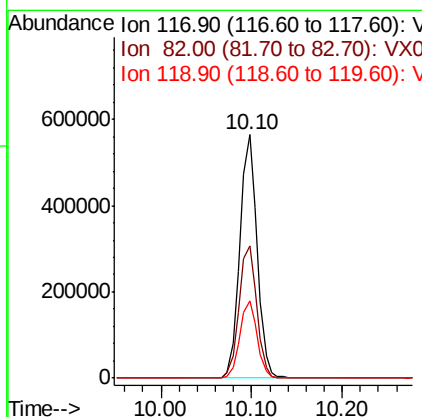
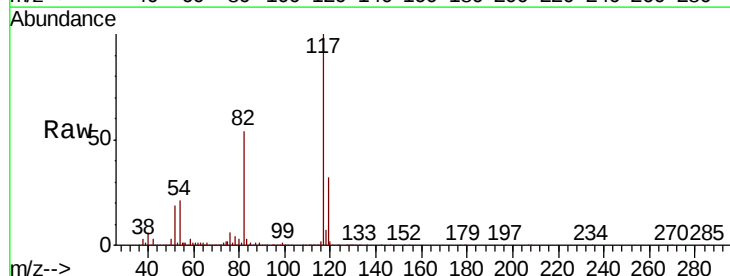
Instrument :
MSVOA_X
ClientSampleId :
MW-8

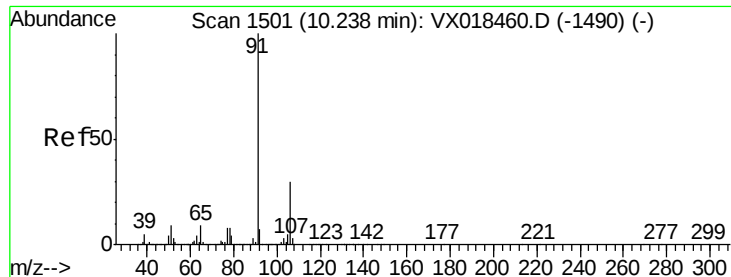
Tot Ion	Ratio	Lower	Upper
95	100		
174	81.6	0.0	161.4
176	78.5	0.0	151.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX018504.D
Acq: 18 Sep 2020 19:42

Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.2	43.3	64.9
119	31.8	25.9	38.9





#67

Ethyl Benzene

Concen: 0.670 ug/l

RT: 10.23 min Scan# 1500

Delta R.T. -0.01 min

Lab File: VX018504.D

Acq: 18 Sep 2020 19:42

Instrument :

MSVOA_X

ClientSampled :

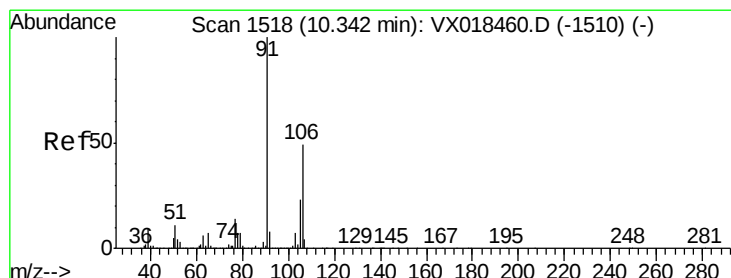
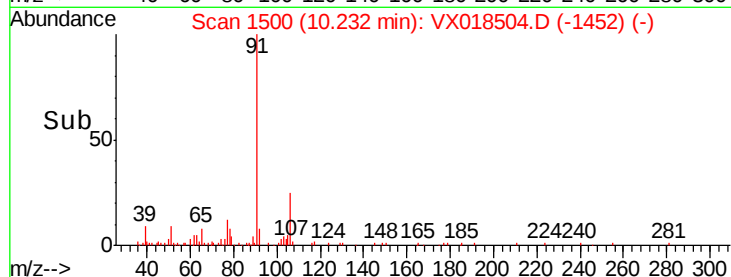
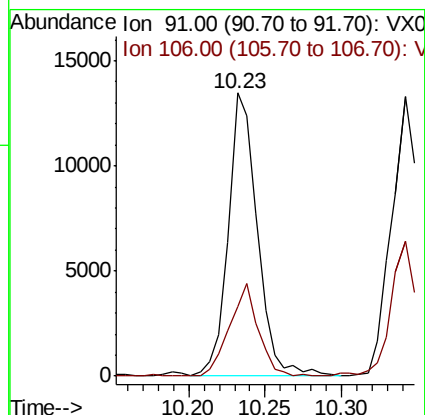
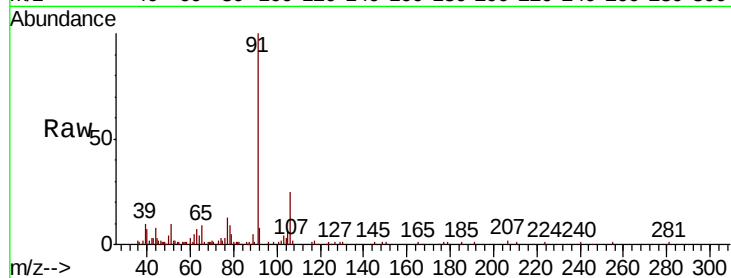
MW-8

Tot Ion: 91 Resp: 17734

Ion Ratio Lower Upper

91 100

106 24.6 24.1 36.1



#68

m/p-Xylenes

Concen: 0.858 ug/l

RT: 10.34 min Scan# 1518

Delta R.T. -0.00 min

Lab File: VX018504.D

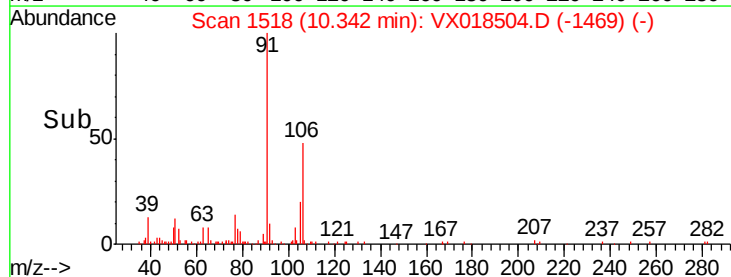
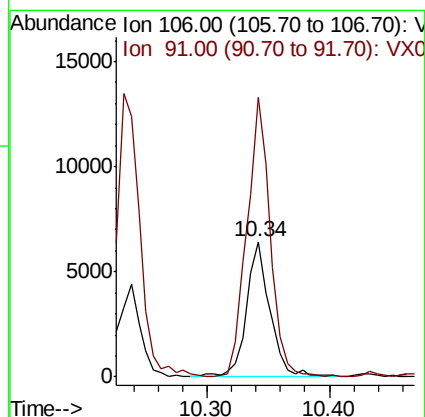
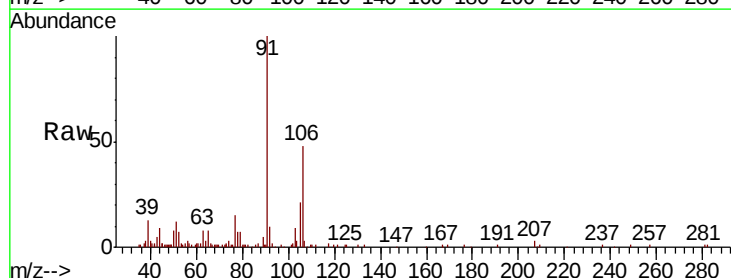
Acq: 18 Sep 2020 19:42

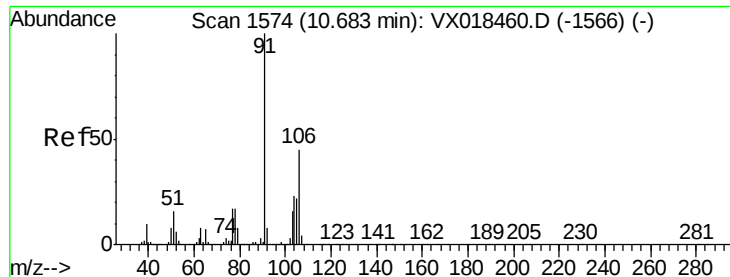
Tgt Ion: 106 Resp: 8598

Ion Ratio Lower Upper

106 100

91 204.0 163.8 245.6

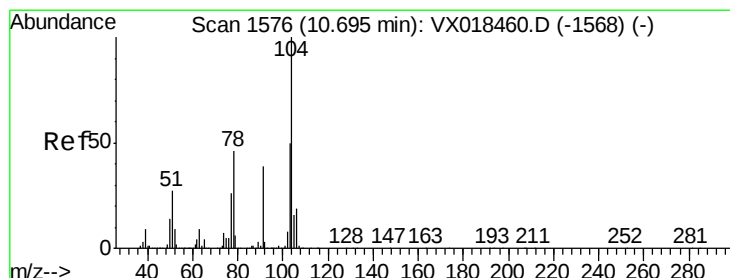
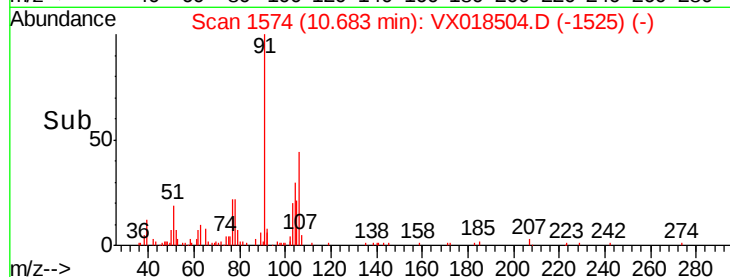
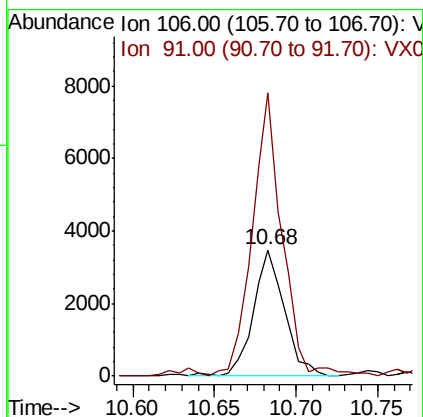
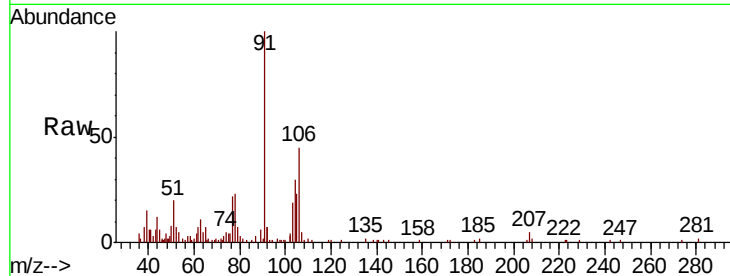




#69
o-Xylene
Concen: 0.489 ug/l
RT: 10.68 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VX018504.D
Acq: 18 Sep 2020 19:42

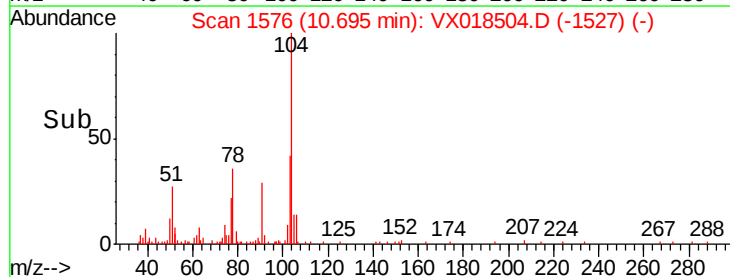
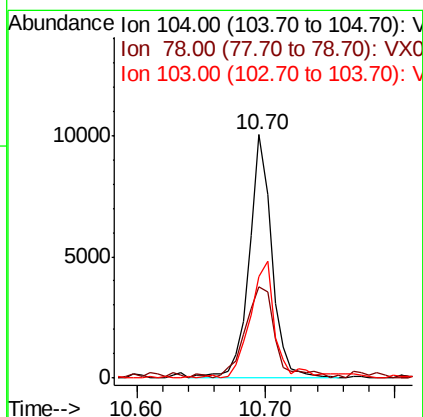
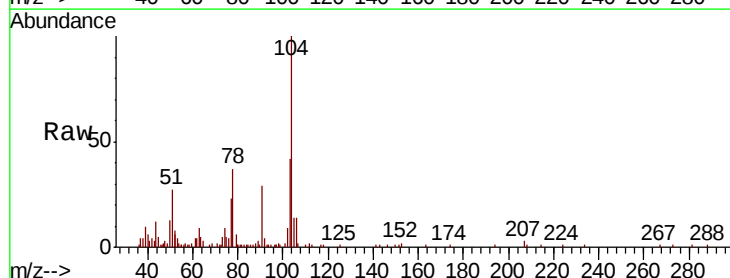
Instrument :
MSVOA_X
ClientSampled :
MW-8

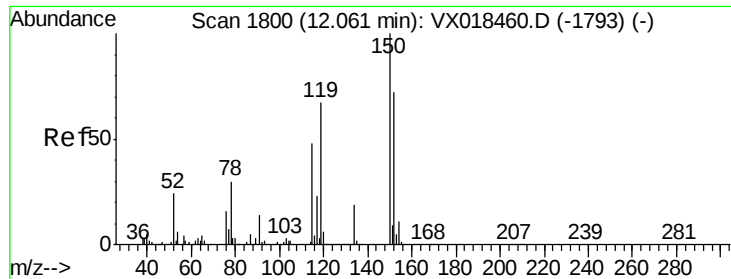
Tot Ion:106 Resp: 4638
Ion Ratio Lower Upper
106 100
91 215.5 109.7 329.0



#70
Styrene
Concen: 0.735 ug/l
RT: 10.70 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VX018504.D
Acq: 18 Sep 2020 19:42

Tgt Ion:104 Resp: 12049
Ion Ratio Lower Upper
104 100
78 50.4 40.5 60.7
103 53.8 43.2 64.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX018504.D

Acq: 18 Sep 2020 19:42

Instrument :

MSVOA_X

ClientSampled :

MW-8

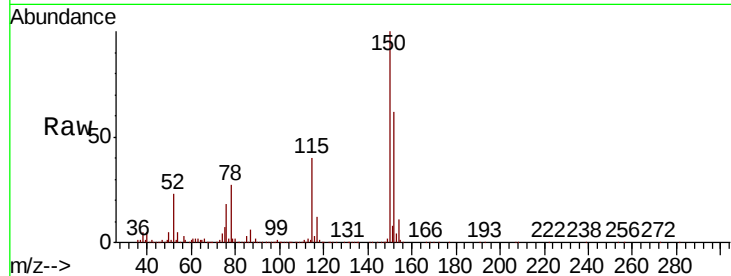
Tot Ion:152 Resp: 372489

Ion Ratio Lower Upper

152 100

115 59.9 41.8 125.4

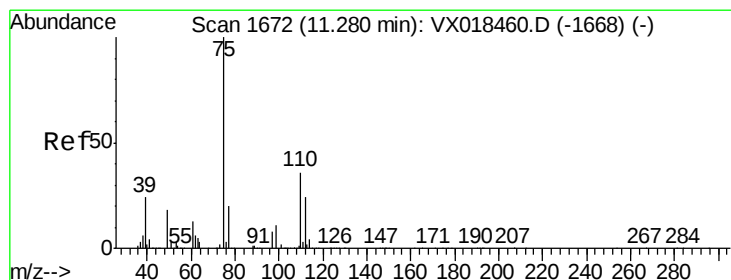
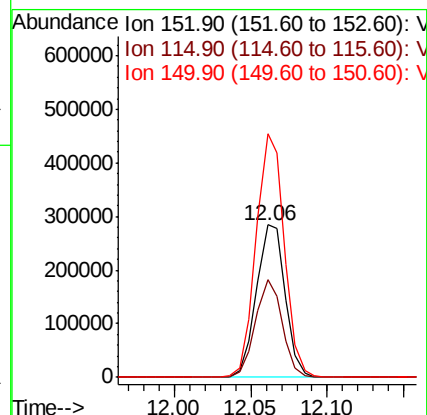
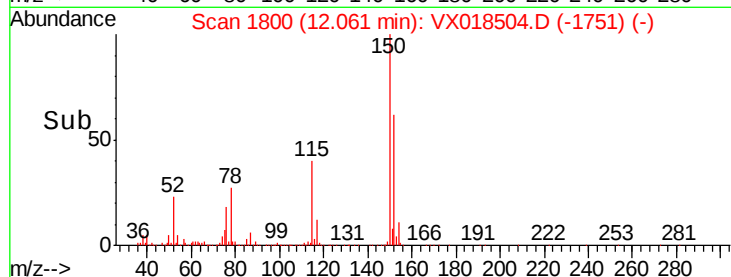
150 156.6 0.0 342.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 24.021 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018504.D

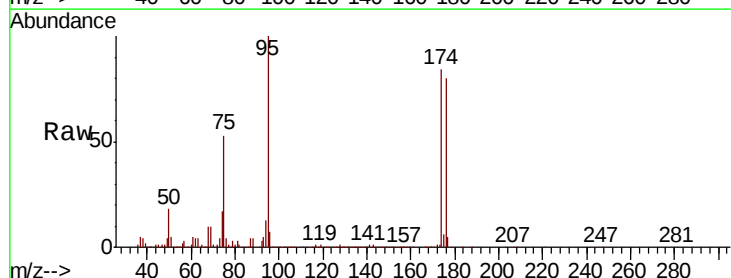
Acq: 18 Sep 2020 19:42

Tgt Ion: 75 Resp: 188027

Ion Ratio Lower Upper

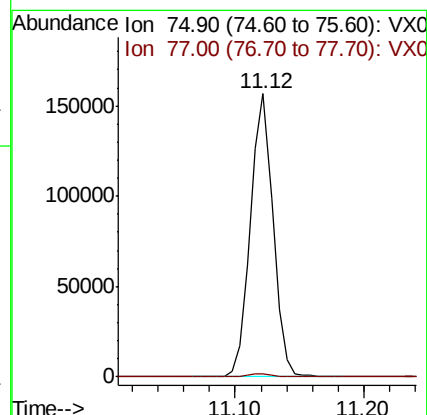
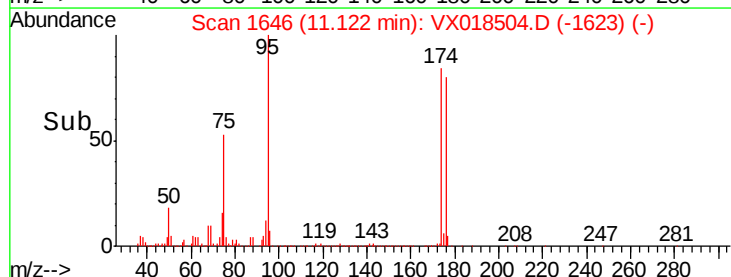
75 100

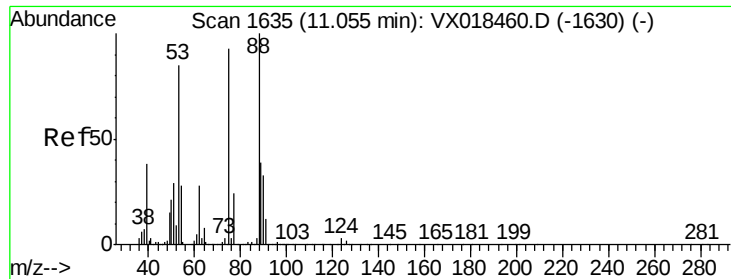
77 1.4 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 61.553 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX018504.D

Acq: 18 Sep 2020 19:42

Instrument :

MSVOA_X

ClientSampleId :

MW-8

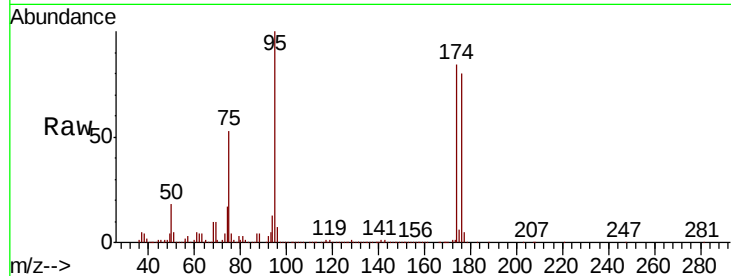
Tot Ion: 75 Resp: 188027

Ion Ratio Lower Upper

75 100

53 0.6 74.6 111.8#

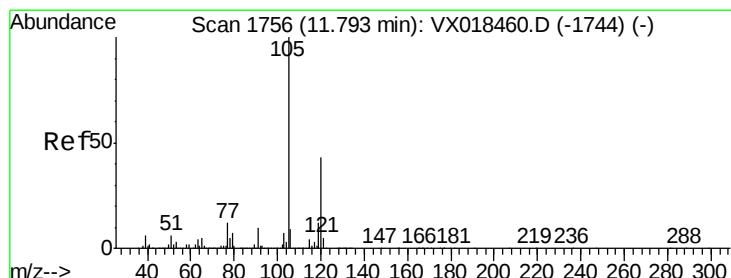
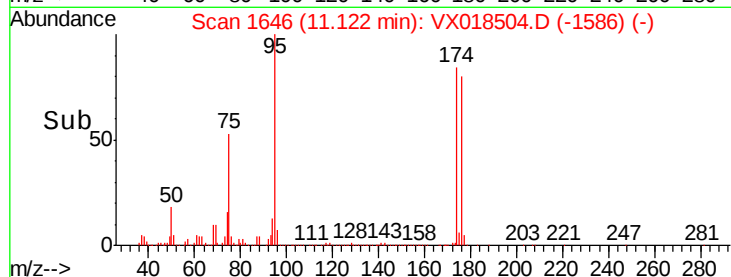
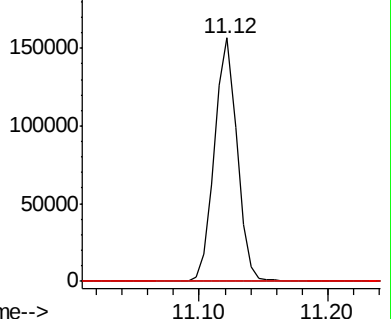
89 0.1 36.2 54.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#84

1,2,4-Trimethylbenzene

Concen: 0.404 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VX018504.D

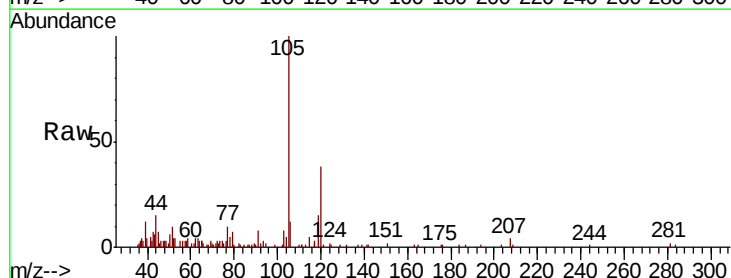
Acq: 18 Sep 2020 19:42

Tgt Ion: 105 Resp: 8660

Ion Ratio Lower Upper

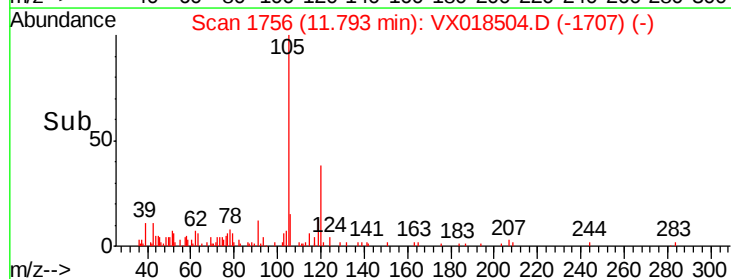
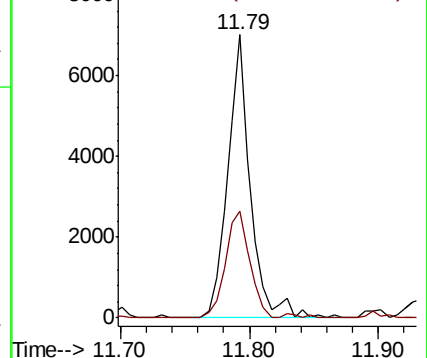
105 100

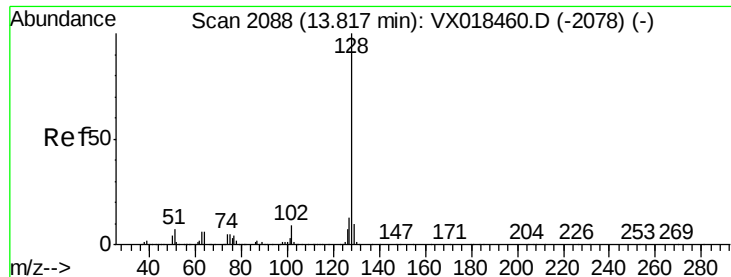
120 40.3 21.6 65.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95
Naphthalene
Concen: 0.274 ug/l
RT: 13.82 min Scan# 2088
Delta R.T. -0.00 min
Lab File: VX018504.D
Acq: 18 Sep 2020 19:42

Instrument :
MSVOA_X
ClientSampleId :
MW-8

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.8	10.3	15.5
129	16.5	8.7	13.1

