

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072219\
 Data File : VX011025.D
 Acq On : 22 Jul 2019 13:06
 Operator : JC/SP
 Sample : K3921-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SU19-MSW0620

Quant Time: Jul 23 03:42:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 20 04:05:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	256961	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	397984	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	370879	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	183047	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	144432	52.83	ug/l	0.00
Spiked Amount			Recovery	=	105.66%	
35) Dibromofluoromethane	5.50	113	124800	49.40	ug/l	0.00
Spiked Amount			Recovery	=	98.80%	
50) Toluene-d8	8.71	98	478138	50.47	ug/l	0.00
Spiked Amount			Recovery	=	100.94%	
62) 4-Bromofluorobenzene	11.13	95	181833	52.21	ug/l	0.00
Spiked Amount			Recovery	=	104.42%	

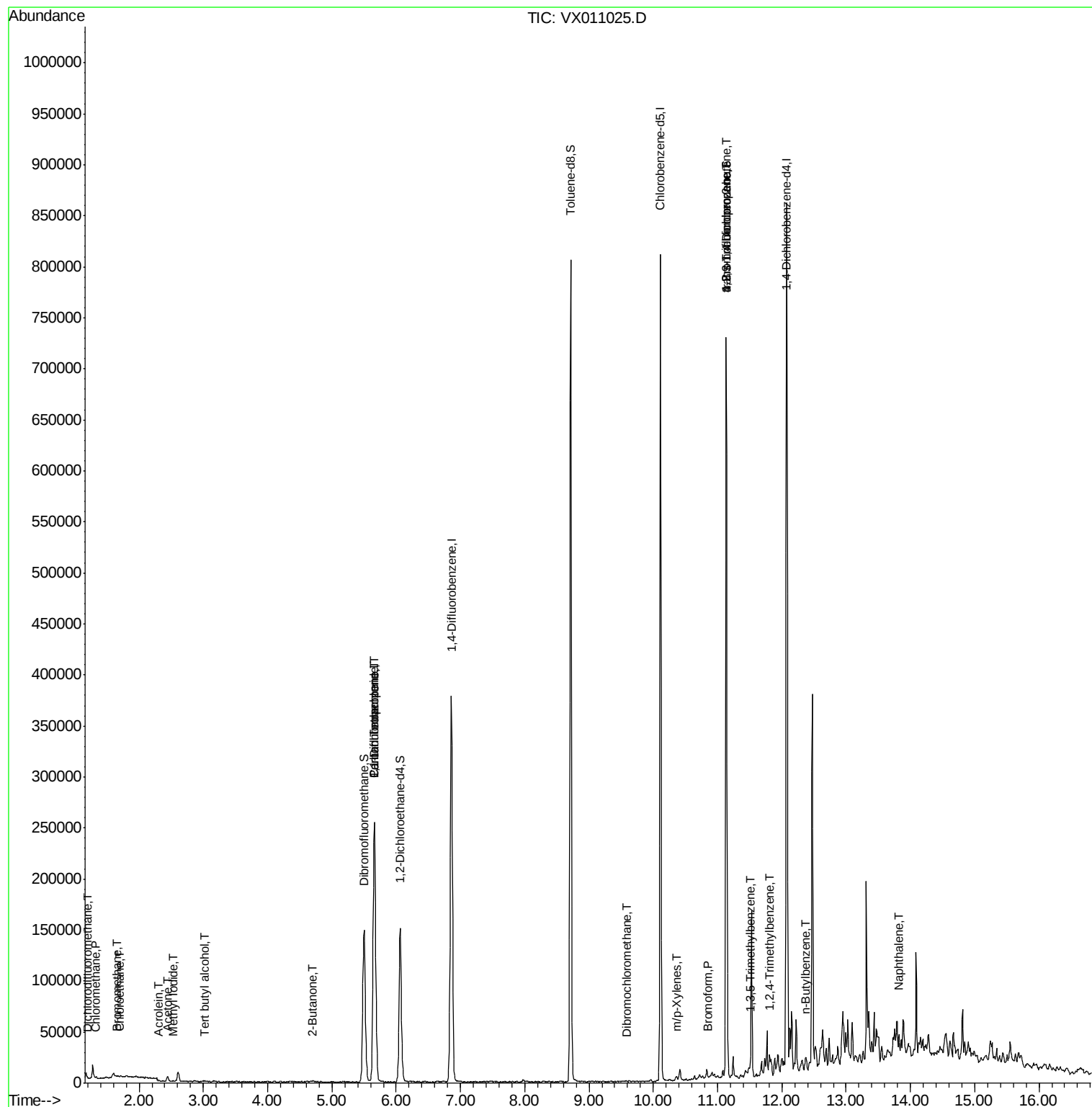
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	62	0.569	ug/l #	43
3) Chloromethane	1.33	50	825	0.349	ug/l #	81
5) Bromomethane	1.65	94	466	0.343	ug/l	84
6) Chloroethane	1.70	64	841	0.549	ug/l #	51
10) Methyl Iodide	2.53	142	896	0.293	ug/l #	93
11) Tert butyl alcohol	3.02	59	709	1.114	ug/l	96
13) Acrolein	2.30	56	312	0.848	ug/l	97
16) Acetone	2.45	43	5433	4.400	ug/l	98
25) 2-Butanone	4.70	43	878	0.495	ug/l #	46
36) 1,1-Dichloropropene	5.67	75	17210	5.264	ug/l #	49
38) Carbon Tetrachloride	5.66	117	23627	6.936	ug/l #	17
60) Dibromochloromethane	9.59	129	41	2.540	ug/l #	11
68) m/p-Xylenes	10.36	106	1018	0.205	ug/l	82
71) Bromoform	10.85	173	104	2.590	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	89380	27.059	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	2853	0.276	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.13	75	89380	67.078	ug/l #	11
84) 1,2,4-Trimethylbenzene	11.80	105	6432	0.617	ug/l	96
89) n-Butylbenzene	12.38	91	2270	0.241	ug/l #	61
95) Naphthalene	13.83	128	2611	0.222	ug/l #	53

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX011025.D

Acq: 22 Jul 2019 13:06

Instrument :

MSVOA_X

ClientSampleId :

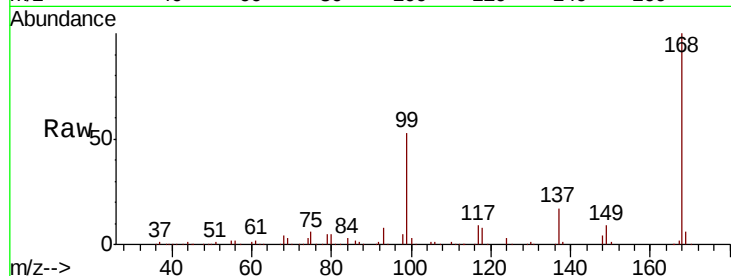
SU19-MSW0620

Tot Ion:168 Resp: 256961

Ion Ratio Lower Upper

168 100

99 53.3 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

100000

80000

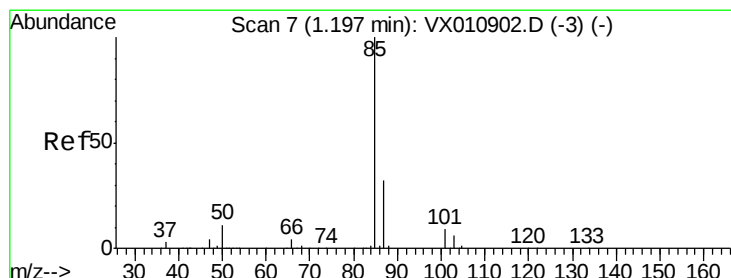
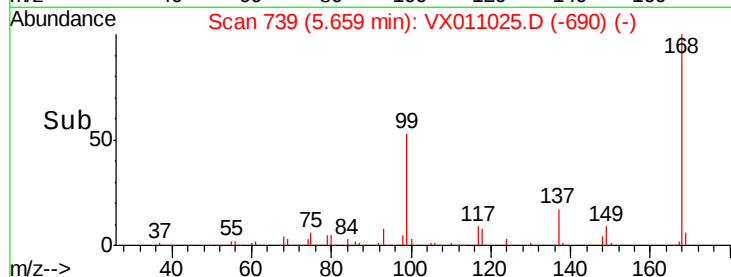
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.569 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX011025.D

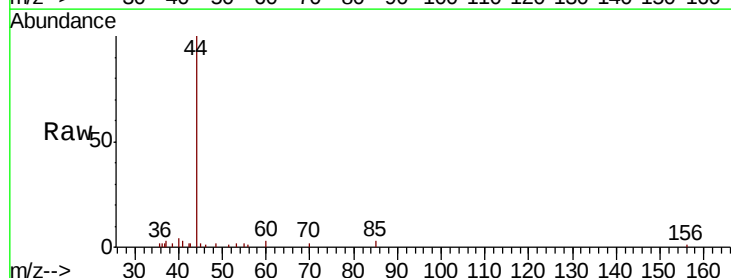
Acq: 22 Jul 2019 13:06

Tgt Ion: 85 Resp: 62

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

100

80

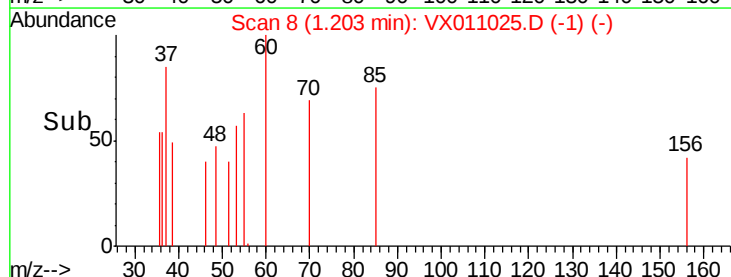
60

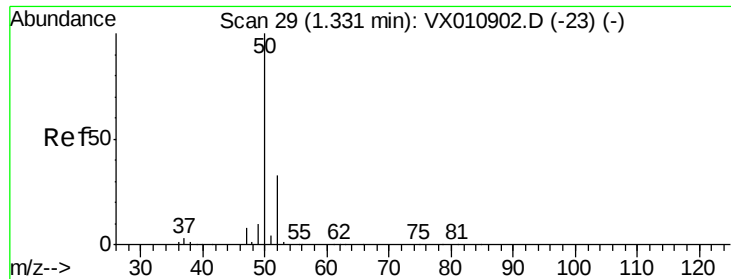
40

20

0

Time--> 1.18 1.20 1.22





#3

Chloromethane

Concen: 0.349 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX011025.D

Acq: 22 Jul 2019 13:06

Instrument :

MSVOA_X

ClientSampleId :

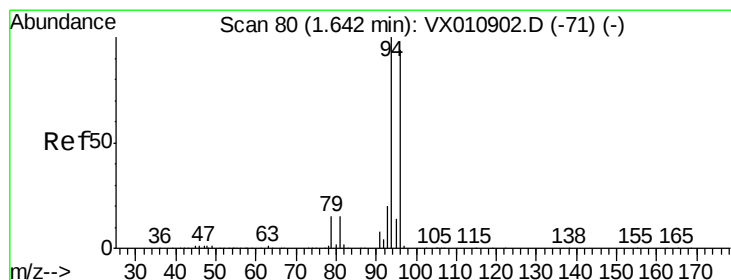
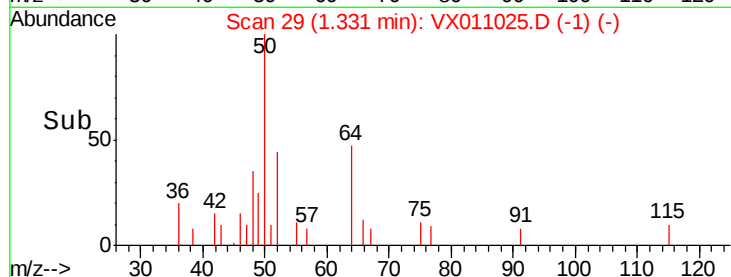
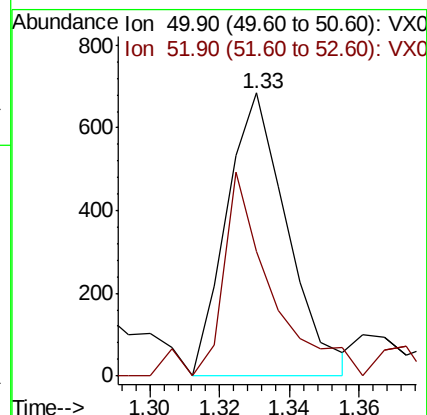
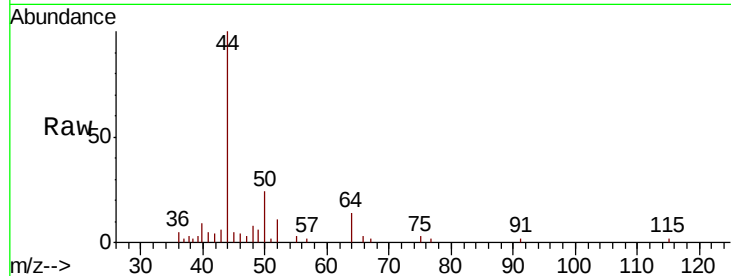
SU19-MSW0620

Tot Ion: 50 Resp: 825

Ion Ratio Lower Upper

50 100

52 43.9 26.4 39.6#



#5

Bromomethane

Concen: 0.343 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX011025.D

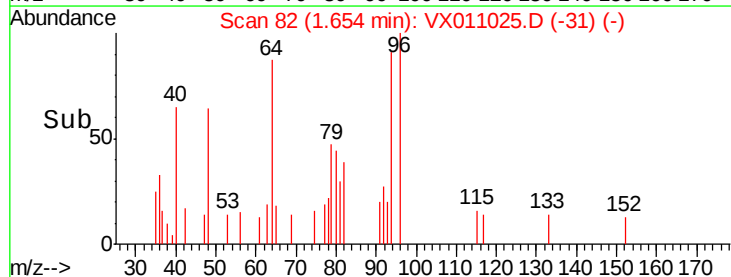
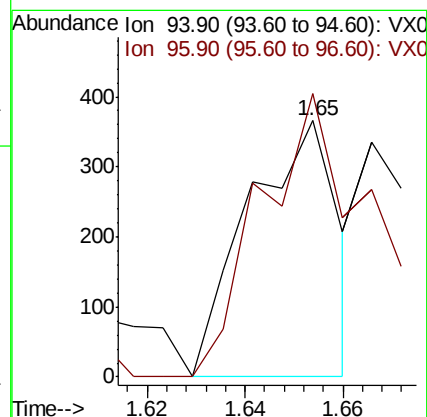
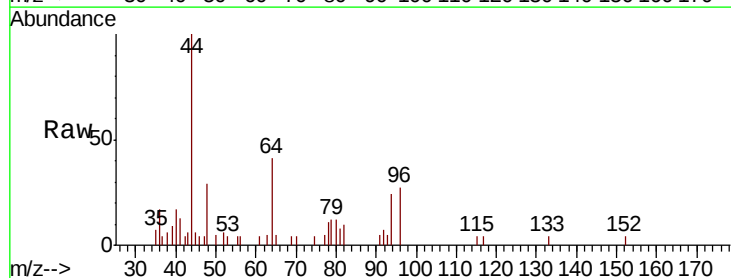
Acq: 22 Jul 2019 13:06

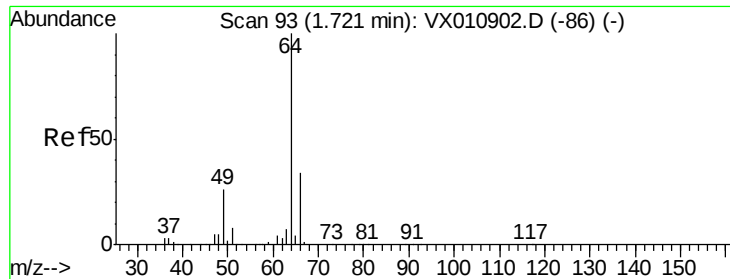
Tgt Ion: 94 Resp: 466

Ion Ratio Lower Upper

94 100

96 110.4 75.6 113.4





#6

Chloroethane

Concen: 0.549 ug/l

RT: 1.70 min Scan# 89

Delta R.T. -0.02 min

Lab File: VX011025.D

Acq: 22 Jul 2019 13:06

Instrument :

MSVOA_X

ClientSampleId :

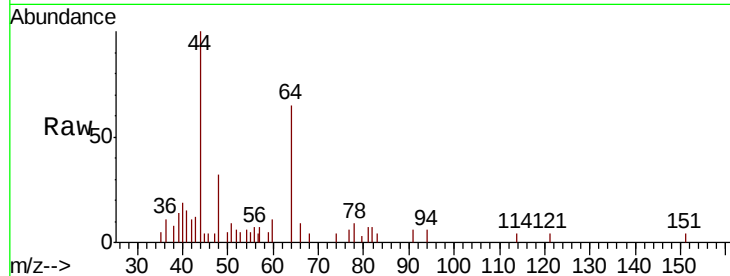
SU19-MSW0620

Tot Ion: 64 Resp: 841

Ion Ratio Lower Upper

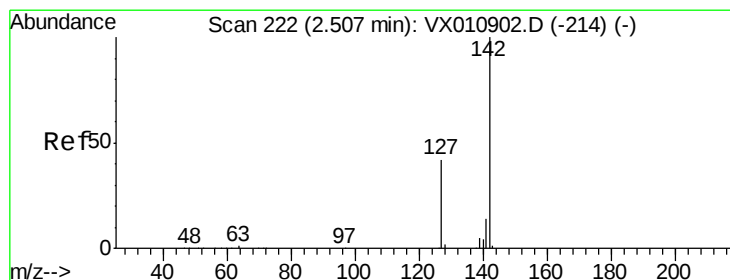
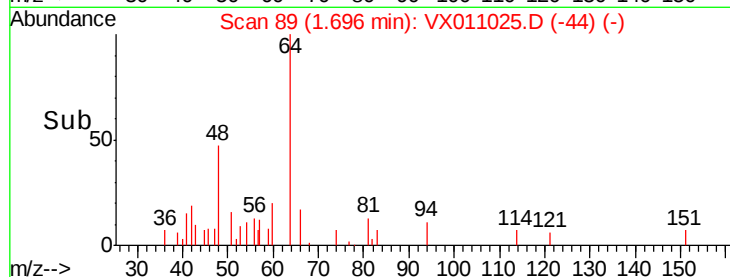
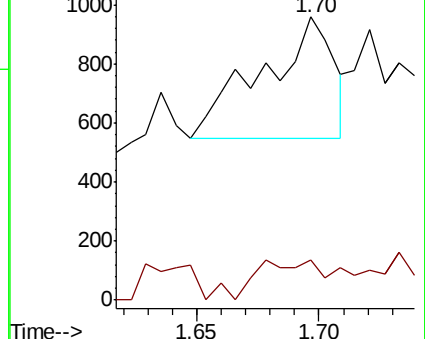
64 100

66 5.9 27.0 40.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 0.293 ug/l

RT: 2.53 min Scan# 225

Delta R.T. 0.02 min

Lab File: VX011025.D

Acq: 22 Jul 2019 13:06

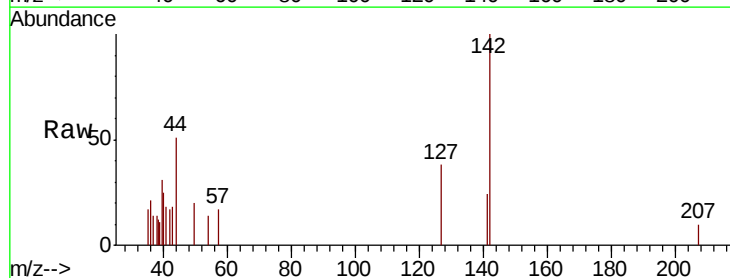
Tgt Ion: 142 Resp: 896

Ion Ratio Lower Upper

142 100

127 40.8 34.2 51.4

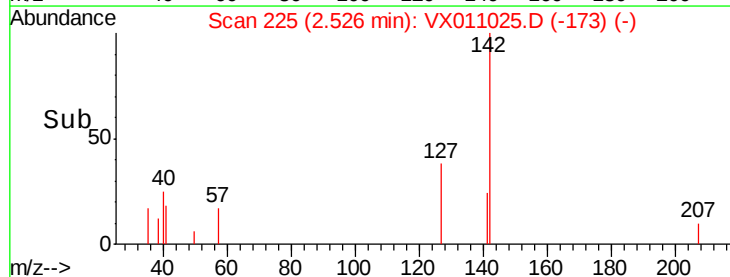
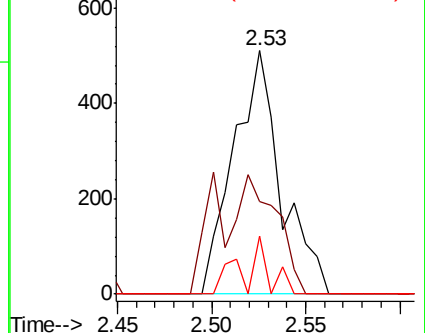
141 7.4 11.7 17.5#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



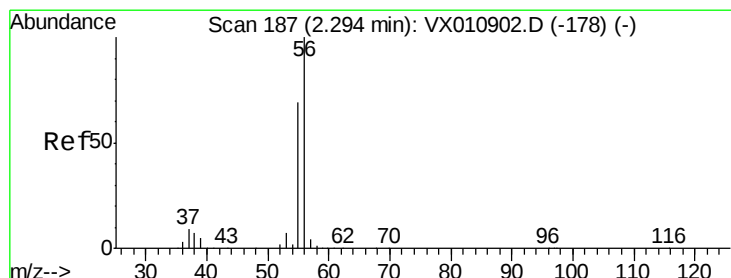
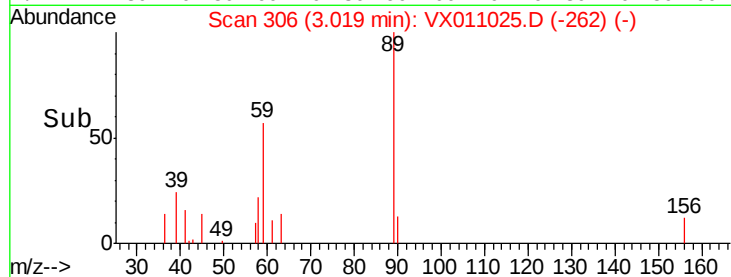
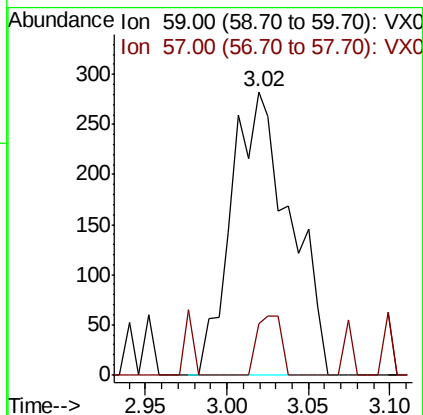
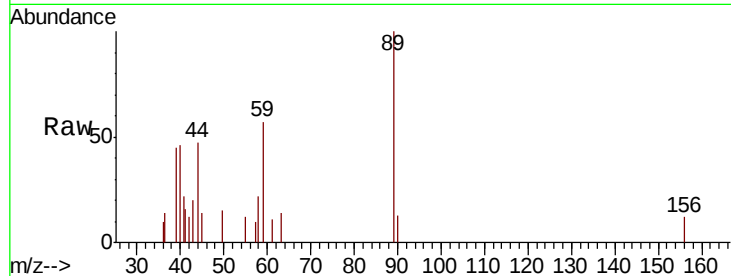


#11

Tert butyl alcohol
 Concen: 1.114 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.03 min
 Lab File: VX011025.D
 Acq: 22 Jul 2019 13:06

Instrument :
 MSVOA_X
 ClientSampleId :
 SU19-MSW0620

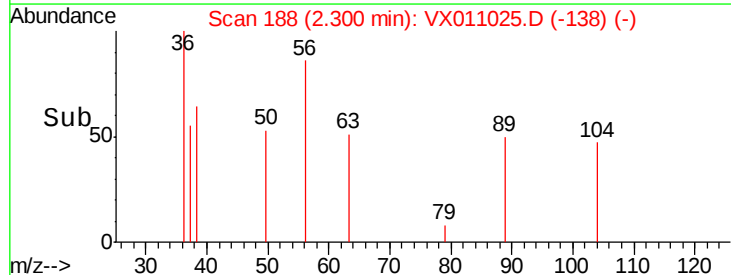
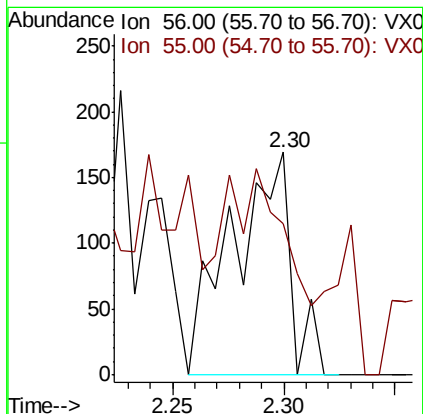
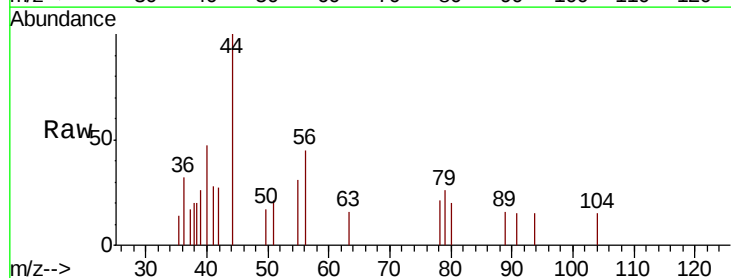
Tot Ion: 59 Resp: 709
 Ion Ratio Lower Upper
 59 100
 57 8.6 7.9 11.9

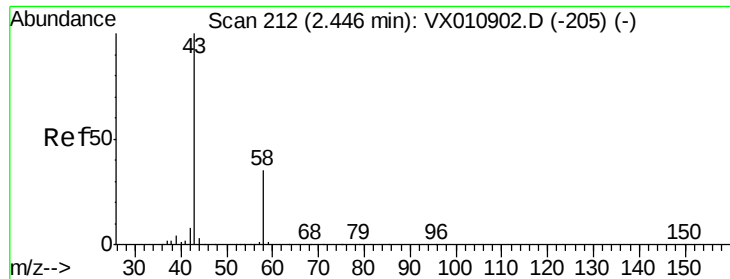


#13

Acrolein
 Concen: 0.848 ug/l
 RT: 2.30 min Scan# 188
 Delta R.T. 0.01 min
 Lab File: VX011025.D
 Acq: 22 Jul 2019 13:06

Tgt Ion: 56 Resp: 312
 Ion Ratio Lower Upper
 56 100
 55 72.8 55.9 83.9





#16

Acetone

Concen: 4.400 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX011025.D

Acq: 22 Jul 2019 13:06

Instrument :

MSVOA_X

ClientSampleId :

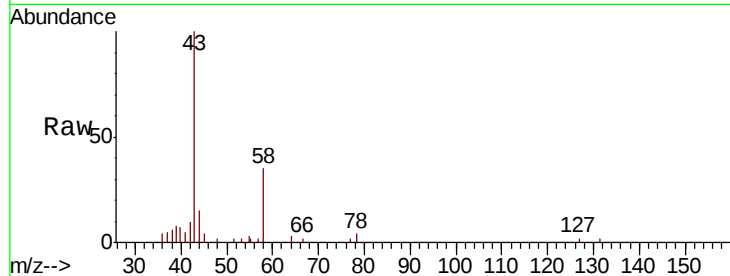
SU19-MSW0620

Tot Ion: 43 Resp: 5433

Ion Ratio Lower Upper

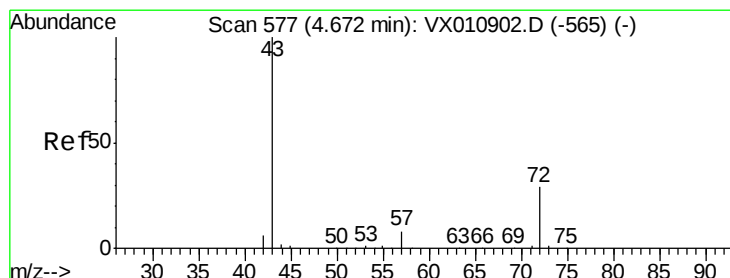
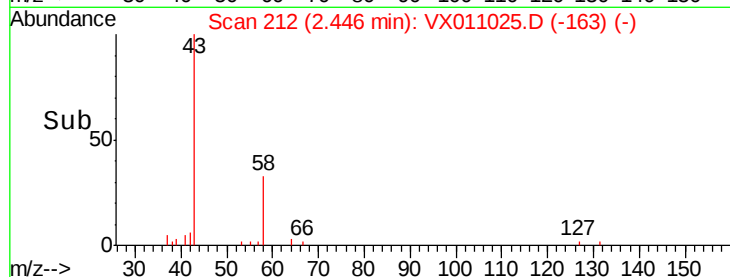
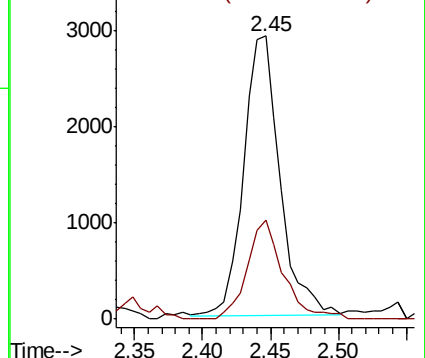
43 100

58 35.8 27.7 41.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#25

2-Butanone

Concen: 0.495 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.02 min

Lab File: VX011025.D

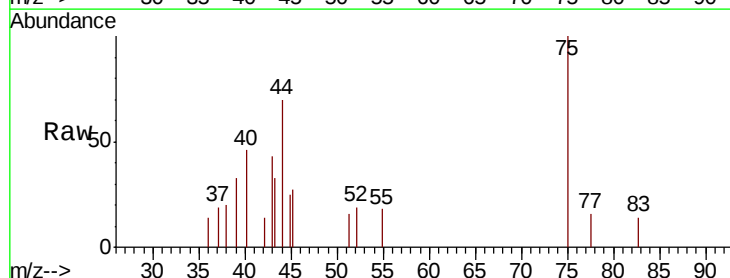
Acq: 22 Jul 2019 13:06

Tgt Ion: 43 Resp: 878

Ion Ratio Lower Upper

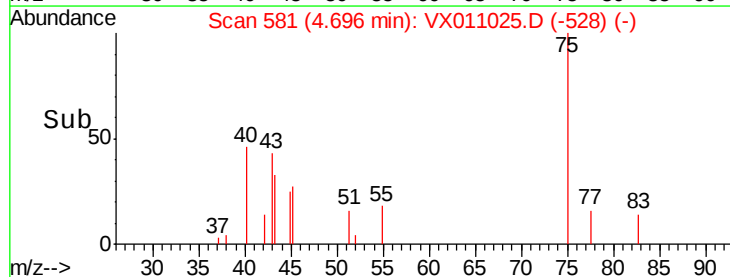
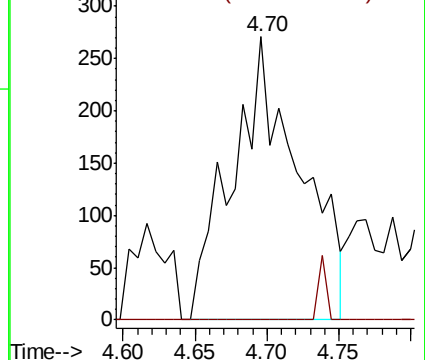
43 100

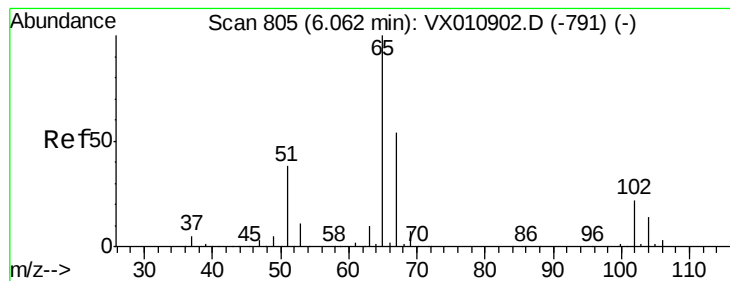
72 0.0 23.0 34.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 52.834 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX011025.D

Acq: 22 Jul 2019 13:06

Instrument :

MSVOA_X

ClientSampleId :

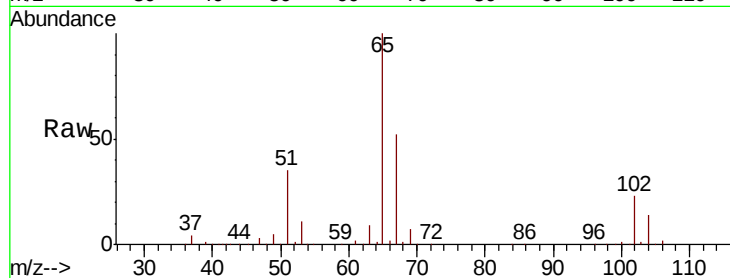
SU19-MSW0620

Tot Ion: 65 Resp: 144432

Ion Ratio Lower Upper

65 100

67 52.5 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

60000

50000

40000

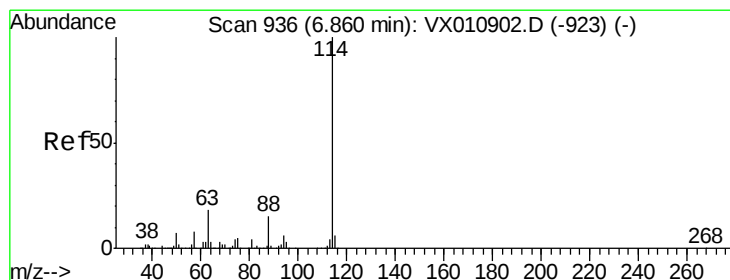
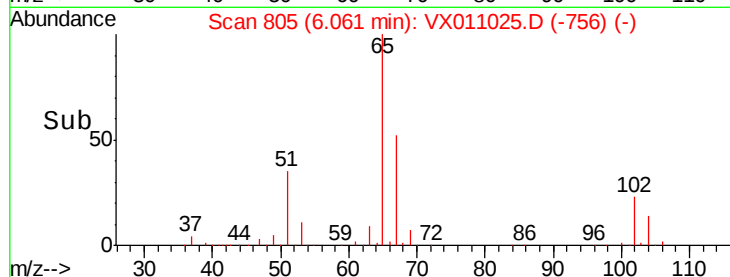
30000

20000

10000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX011025.D

Acq: 22 Jul 2019 13:06

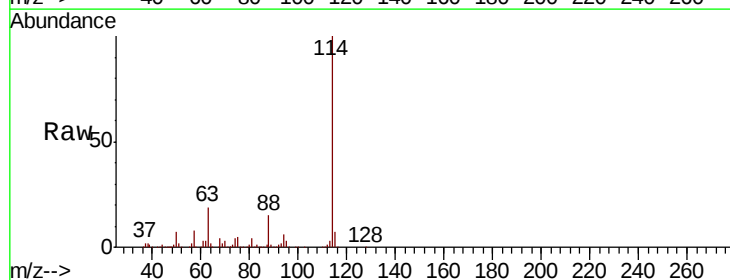
Tgt Ion: 114 Resp: 397984

Ion Ratio Lower Upper

114 100

63 19.0 0.0 35.6

88 15.4 0.0 29.8



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

6.86

200000

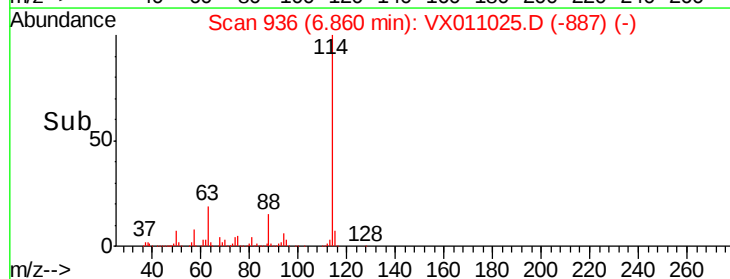
150000

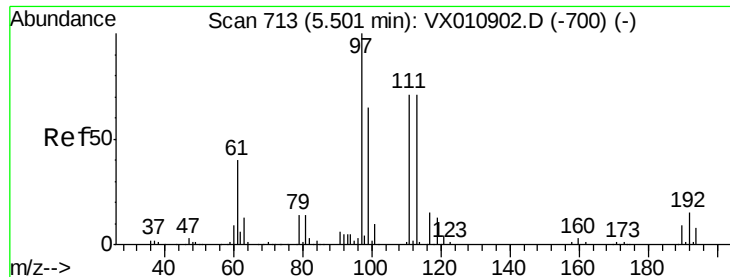
100000

50000

0

Time-->





#35

Dibromofluoromethane

Concen: 49.404 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX011025.D

Acq: 22 Jul 2019 13:06

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0620

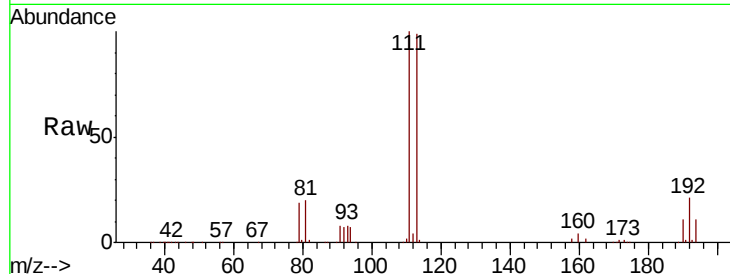
Tot Ion:113 Resp: 124800

Ion Ratio Lower Upper

113 100

111 100.9 82.3 123.5

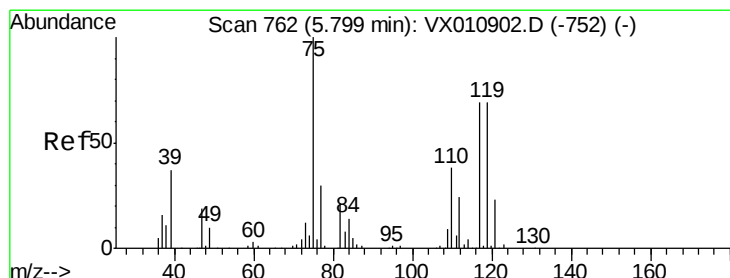
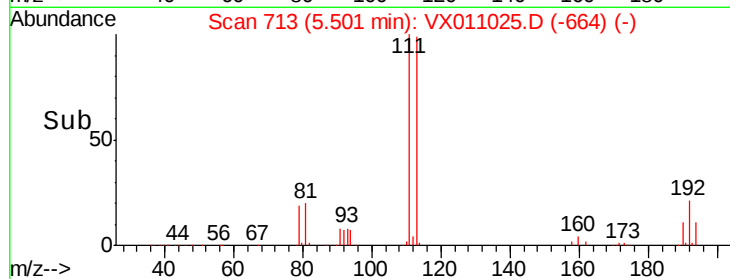
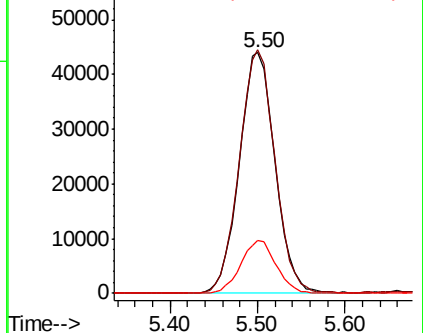
192 21.6 17.4 26.2



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: 5.264 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX011025.D

Acq: 22 Jul 2019 13:06

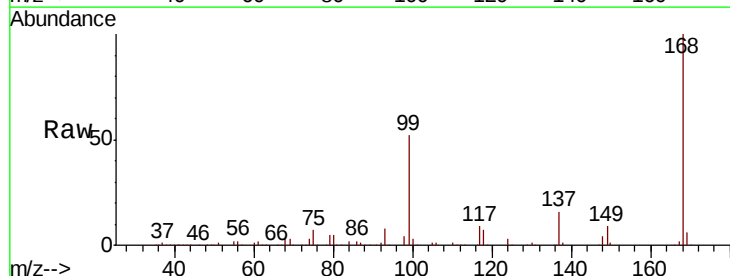
Tgt Ion: 75 Resp: 17210

Ion Ratio Lower Upper

75 100

110 10.9 19.9 59.7#

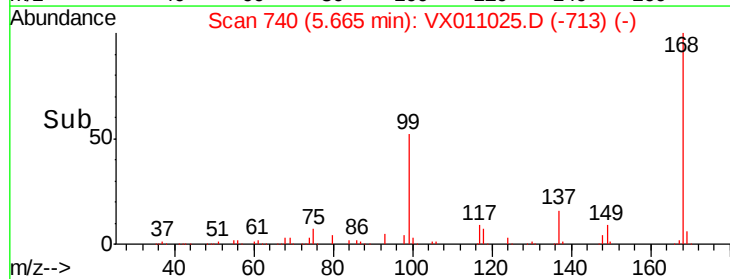
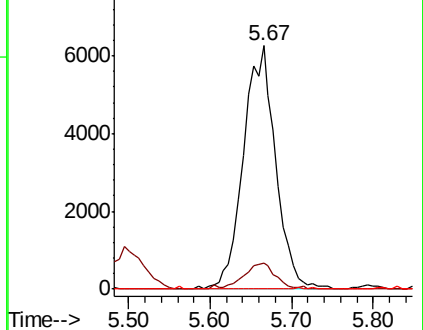
77 0.0 25.0 37.4#

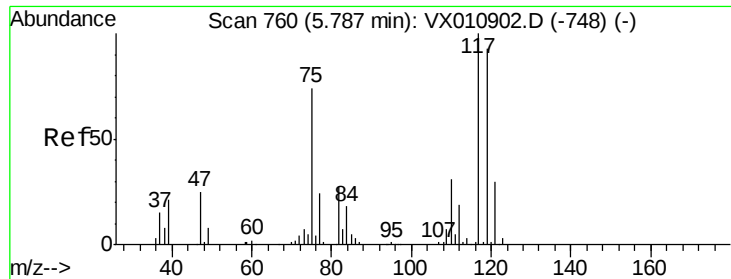


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.936 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX011025.D

Acq: 22 Jul 2019 13:06

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0620

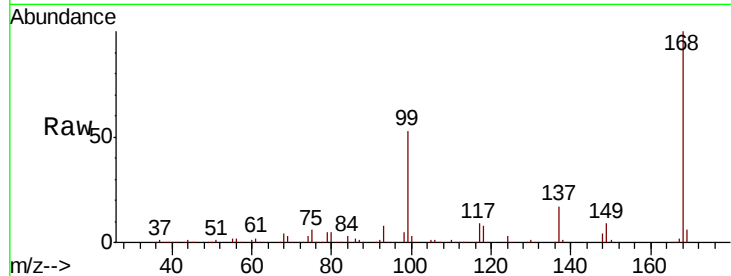
Tot Ion:117 Resp: 23627

Ion Ratio Lower Upper

117 100

119 4.3 74.2 111.2#

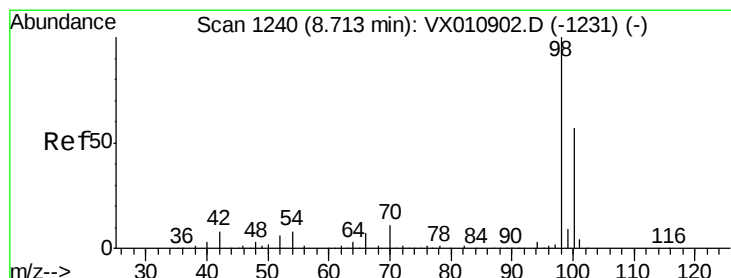
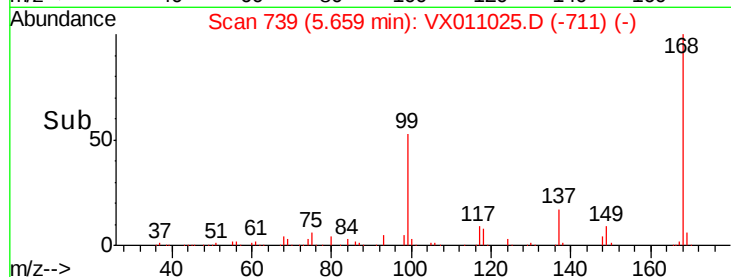
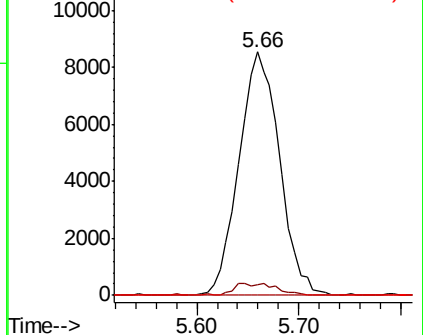
121 0.0 24.2 36.2#



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



#50

Toluene-d8

Concen: 50.466 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011025.D

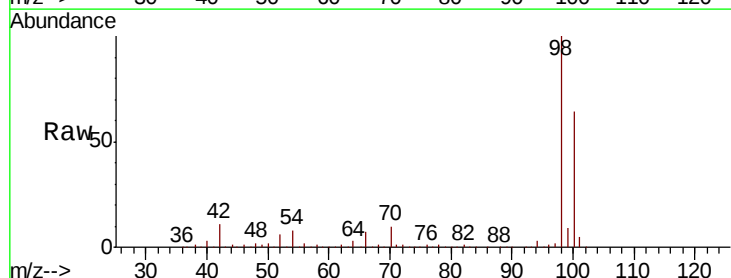
Acq: 22 Jul 2019 13:06

Tgt Ion: 98 Resp: 478138

Ion Ratio Lower Upper

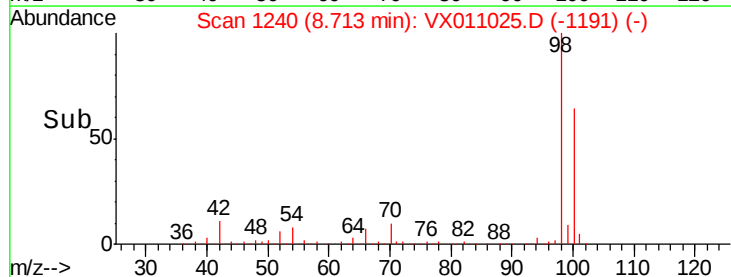
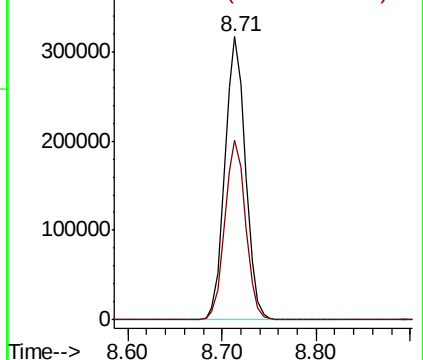
98 100

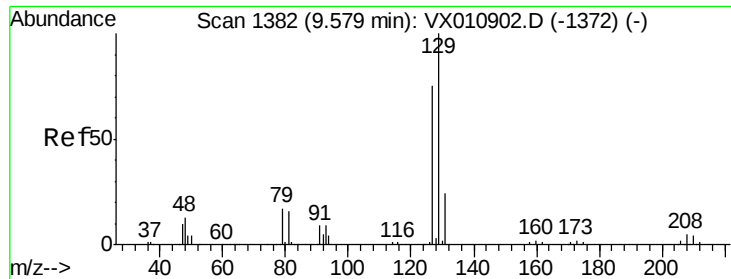
100 64.1 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 2.540 ug/l

RT: 9.59 min Scan# 1383

Delta R.T. 0.01 min

Lab File: VX011025.D

Acq: 22 Jul 2019 13:06

Instrument :

MSVOA_X

ClientSampleId :

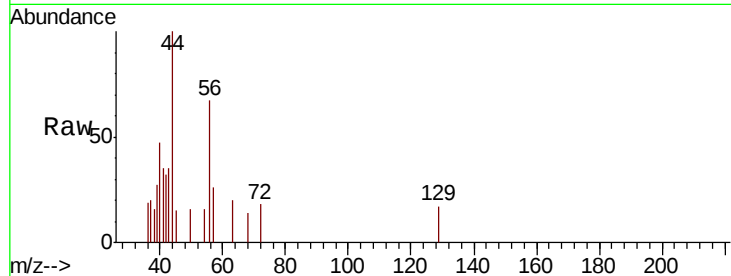
SU19-MSW0620

Tot Ion:129 Resp: 41

Ion Ratio Lower Upper

129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.59

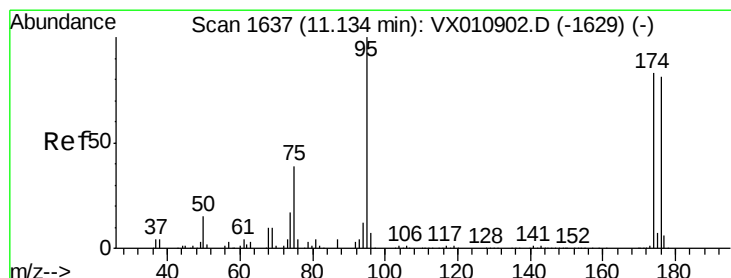
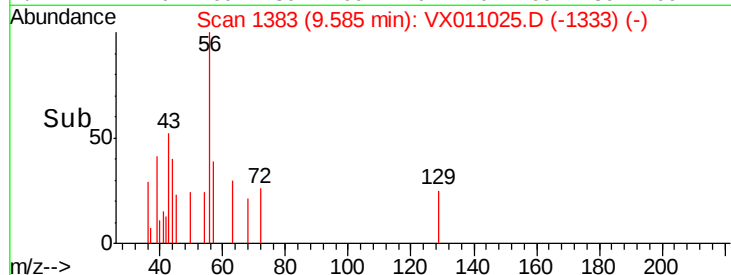
60

40

20

0

Time-->



#62

4-Bromofluorobenzene

Concen: 52.213 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011025.D

Acq: 22 Jul 2019 13:06

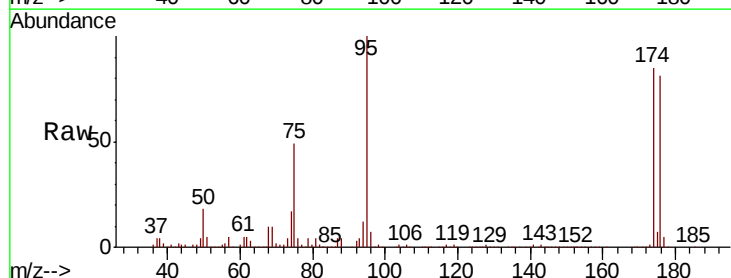
Tgt Ion: 95 Resp: 181833

Ion Ratio Lower Upper

95 100

174 88.6 0.0 180.6

176 84.6 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

200000

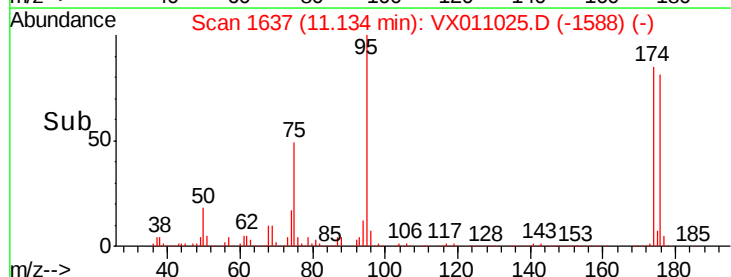
150000

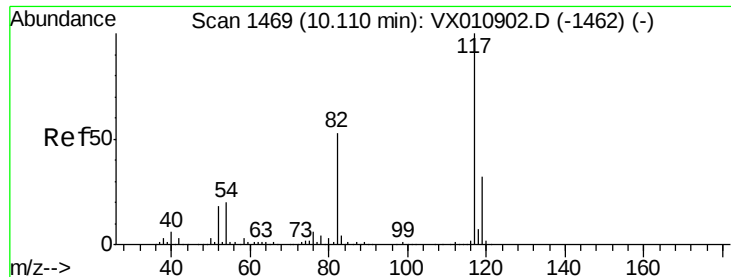
100000

50000

0

Time-->

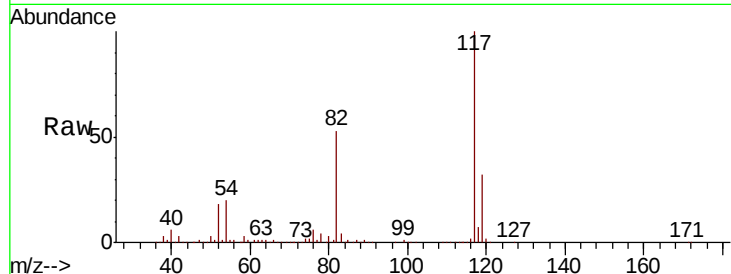




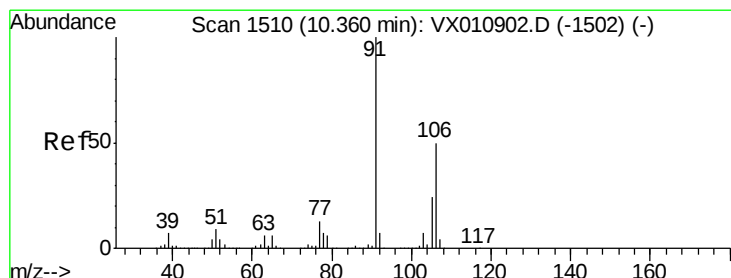
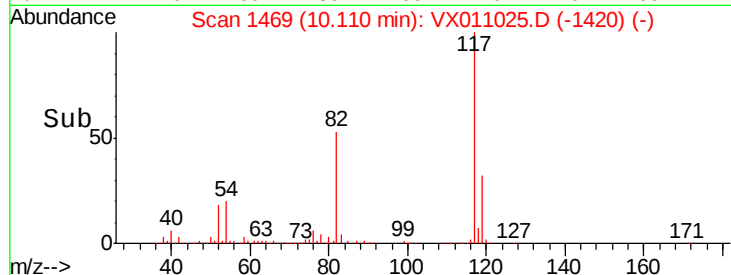
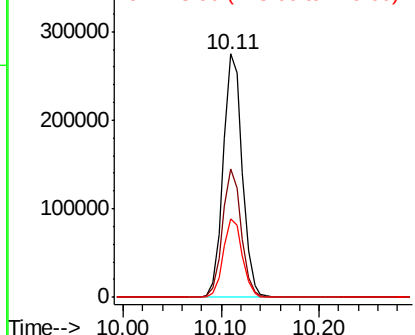
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011025.D
Acq: 22 Jul 2019 13:06

Instrument :
MSVOA_X
ClientSampleId :
SU19-MSW0620

Tot Ion:117 Resp: 370879
Ion Ratio Lower Upper
117 100
82 52.9 42.6 63.8
119 32.2 25.9 38.9

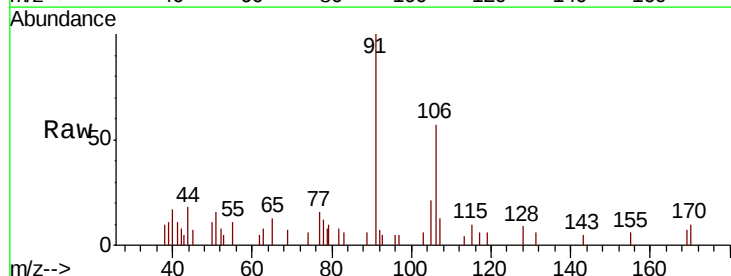


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

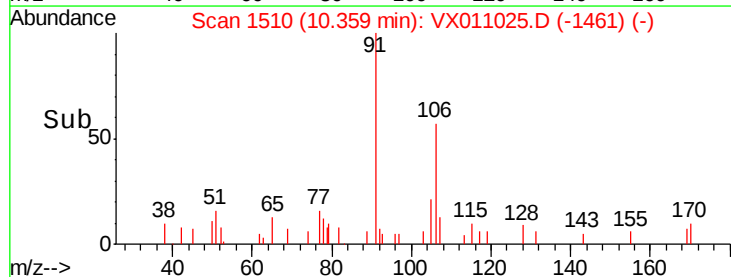
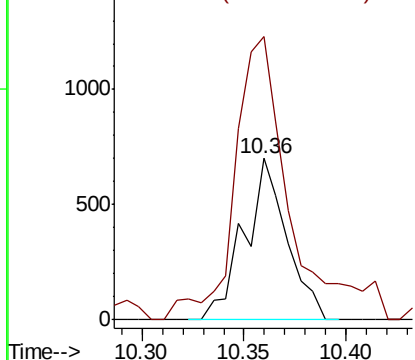


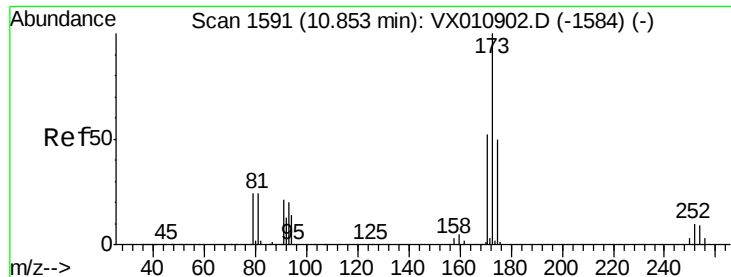
#68
m/p-Xylenes
Concen: 0.205 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX011025.D
Acq: 22 Jul 2019 13:06

Tgt Ion:106 Resp: 1018
Ion Ratio Lower Upper
106 100
91 227.3 160.1 240.1



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0





#71

Bromoform

Concen: 2.590 ug/l

RT: 10.85 min Scan# 1591

Delta R.T. 0.00 min

Lab File: VX011025.D

Acq: 22 Jul 2019 13:06

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0620

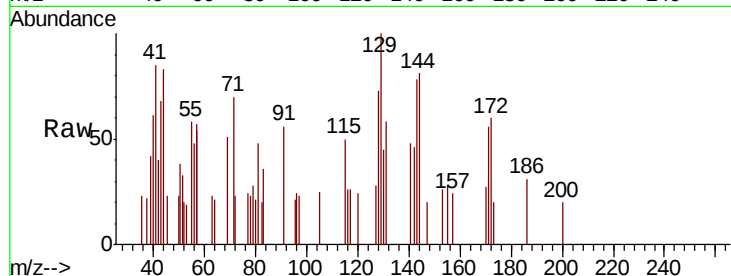
Tot Ion:173 Resp: 104

Ion Ratio Lower Upper

173 100

175 0.0 24.6 73.6#

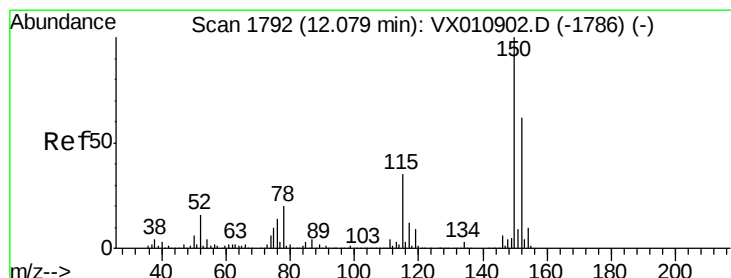
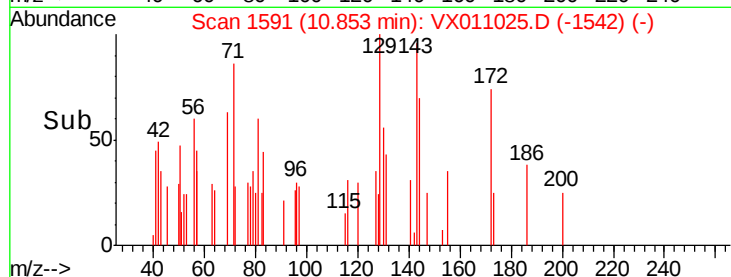
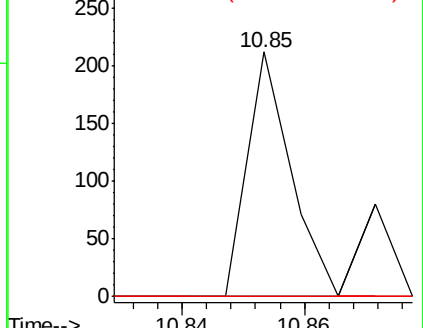
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1791

Delta R.T. -0.01 min

Lab File: VX011025.D

Acq: 22 Jul 2019 13:06

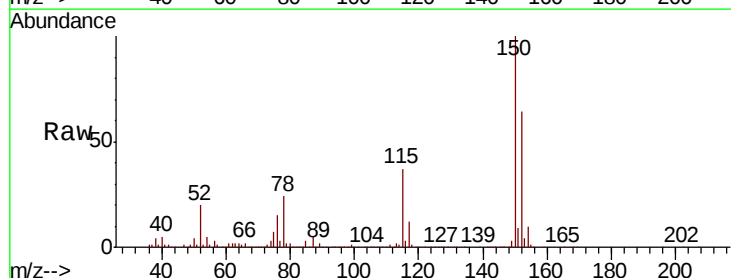
Tgt Ion:152 Resp: 183047

Ion Ratio Lower Upper

152 100

115 56.7 39.7 119.1

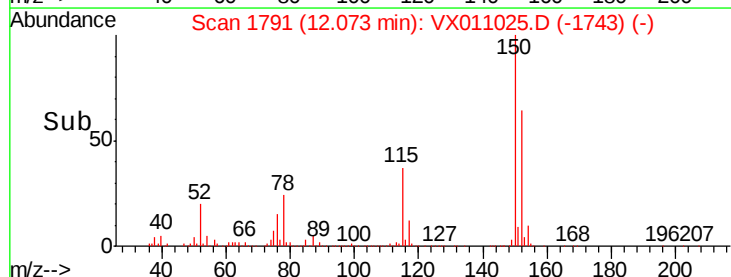
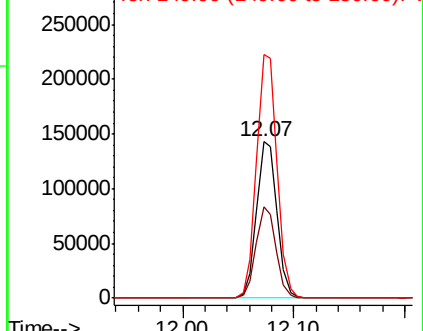
150 157.2 0.0 345.6

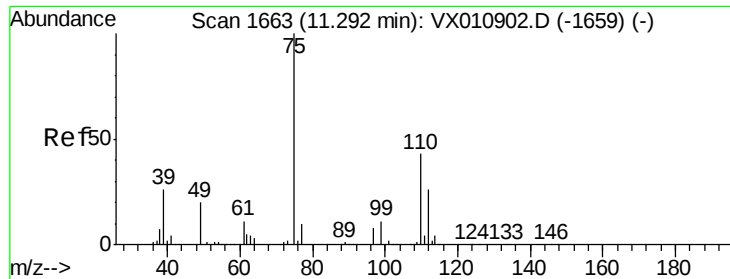


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

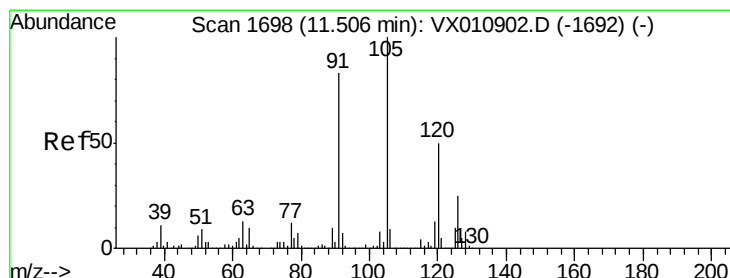
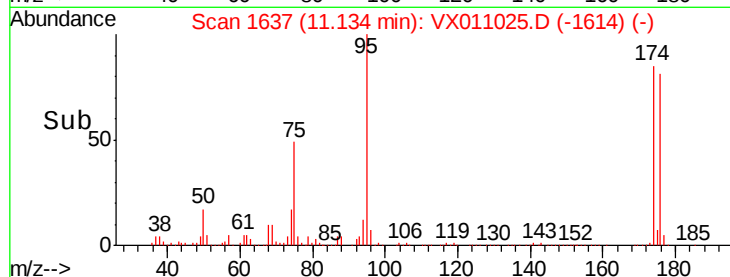
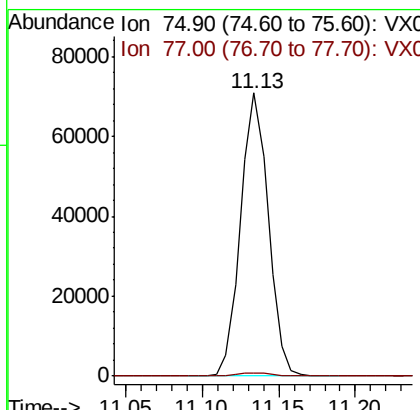
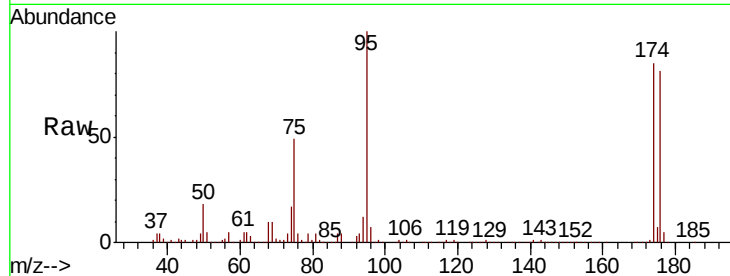




#76
 1,2,3-Trichloropropane
 Concen: 27.059 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX011025.D
 Acq: 22 Jul 2019 13:06

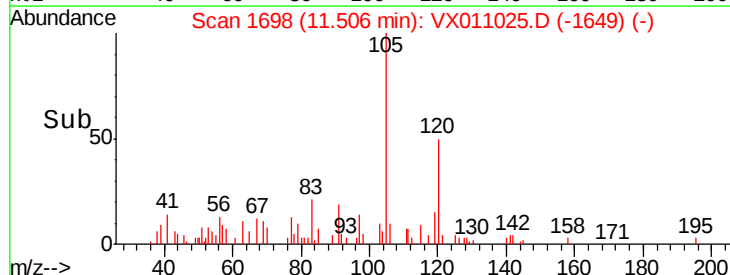
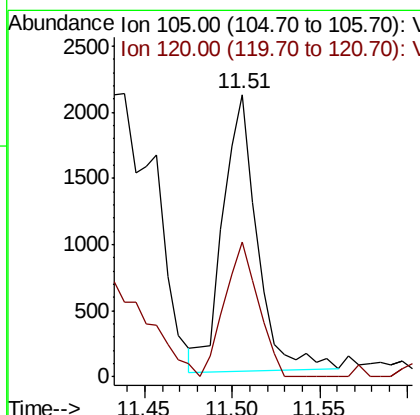
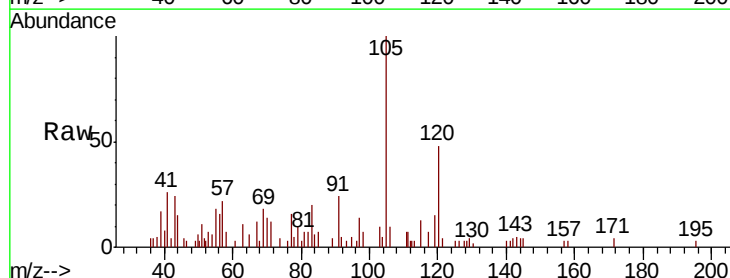
Instrument :
 MSVOA_X
 ClientSampleId :
 SU19-MSW0620

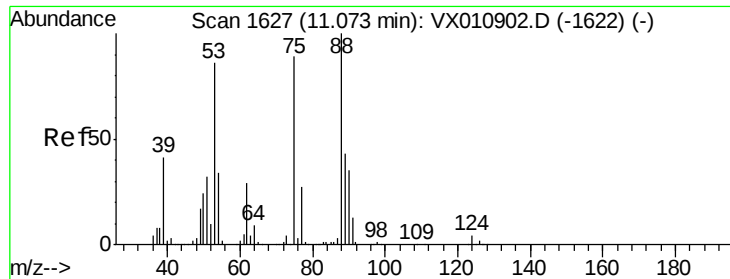
Tot Ion: 75 Resp: 89380
 Ion Ratio Lower Upper
 75 100
 77 1.6 21.3 64.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.276 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX011025.D
 Acq: 22 Jul 2019 13:06

Tgt Ion: 105 Resp: 2853
 Ion Ratio Lower Upper
 105 100
 120 48.1 24.6 73.8





#81

trans-1,4-Dichloro-2-butene

Concen: 67.078 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011025.D

Acq: 22 Jul 2019 13:06

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0620

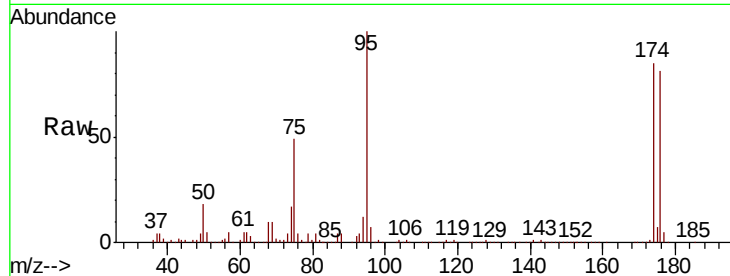
Tot Ion: 75 Resp: 89380

Ion Ratio Lower Upper

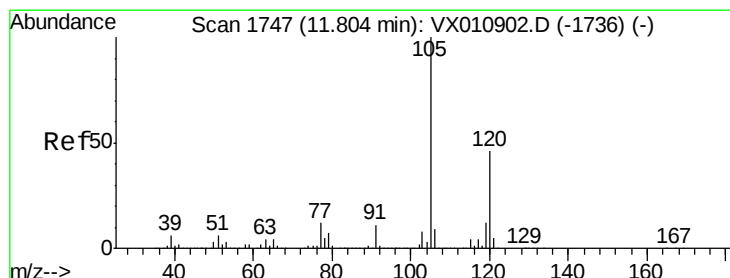
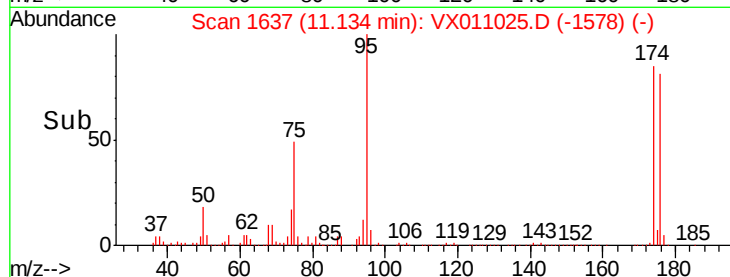
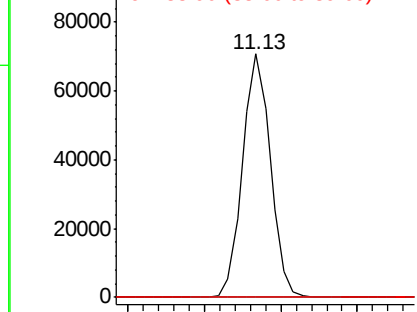
75 100

53 0.1 76.7 115.1#

89 0.0 38.5 57.7#



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: 0.617 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. -0.00 min

Lab File: VX011025.D

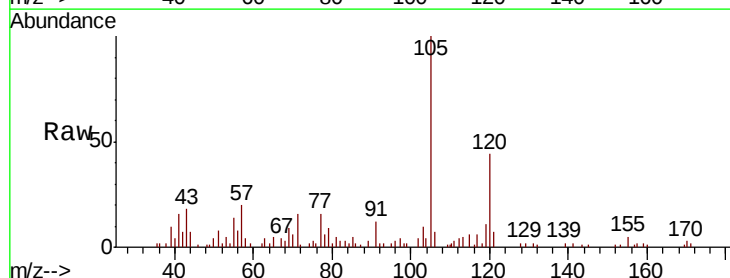
Acq: 22 Jul 2019 13:06

Tgt Ion: 105 Resp: 6432

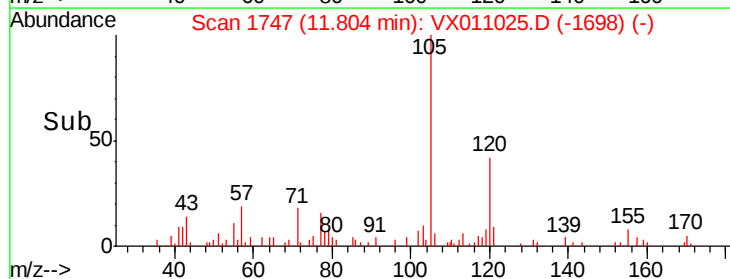
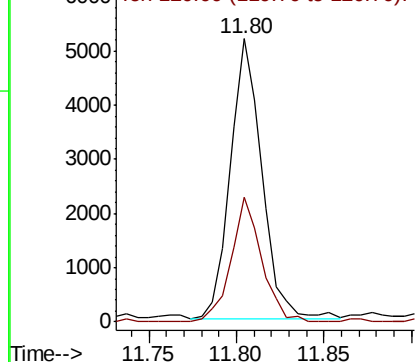
Ion Ratio Lower Upper

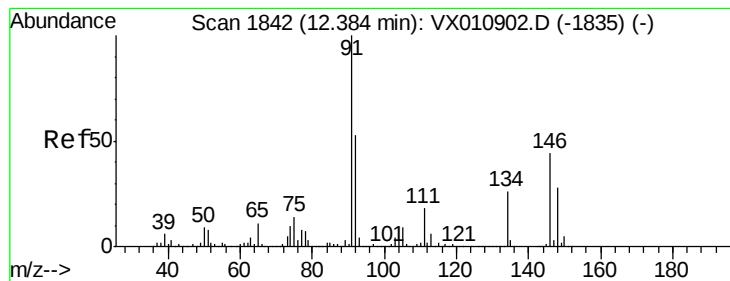
105 100

120 43.4 22.9 68.5



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#89

n-Butylbenzene

Concen: 0.241 ug/l

RT: 12.38 min Scan# 1842

Delta R.T. -0.00 min

Lab File: VX011025.D

Acq: 22 Jul 2019 13:06

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0620

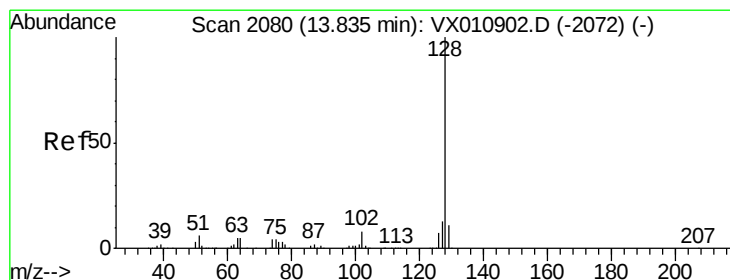
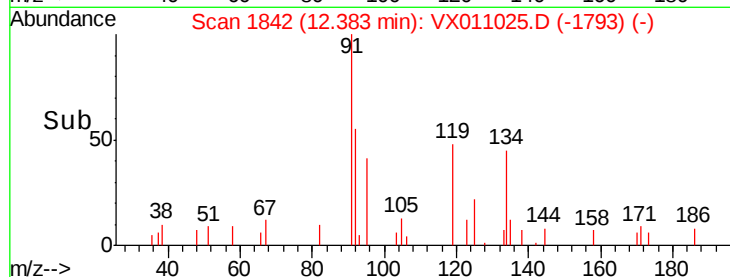
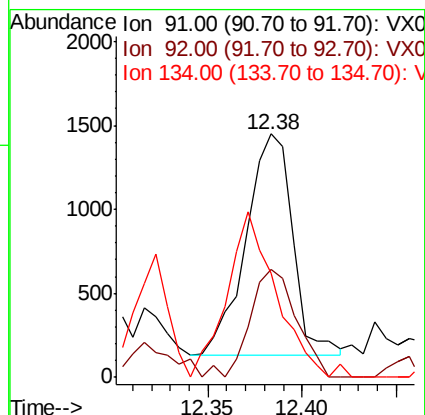
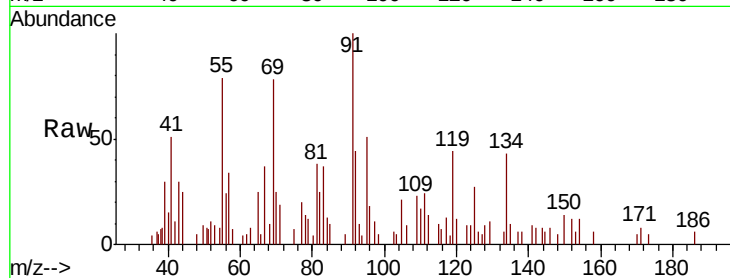
Tot Ion: 91 Resp: 2270

Ion Ratio Lower Upper

91 100

92 47.2 26.2 78.5

134 78.8 13.8 41.3#



#95

Naphthalene

Concen: 0.222 ug/l

RT: 13.83 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX011025.D

Acq: 22 Jul 2019 13:06

Tgt Ion: 128 Resp: 2611

Ion Ratio Lower Upper

128 100

127 30.1 10.4 15.6#

129 30.8 8.9 13.3#

