

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062019\
 Data File : VX010371.D
 Acq On : 20 Jun 2019 20:41
 Operator : JC/SP
 Sample : K3469-14 40X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 21 01:25:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	316144	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	476852	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	426771	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	197628	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	144159	48.63	ug/l	0.00
Spiked Amount			Recovery	=	97.26%	
35) Dibromofluoromethane	5.50	113	146834	50.33	ug/l	0.00
Spiked Amount			Recovery	=	100.66%	
50) Toluene-d8	8.71	98	560356	50.20	ug/l	0.00
Spiked Amount			Recovery	=	100.40%	
62) 4-Bromofluorobenzene	11.13	95	185894	46.13	ug/l	0.00
Spiked Amount			Recovery	=	92.26%	

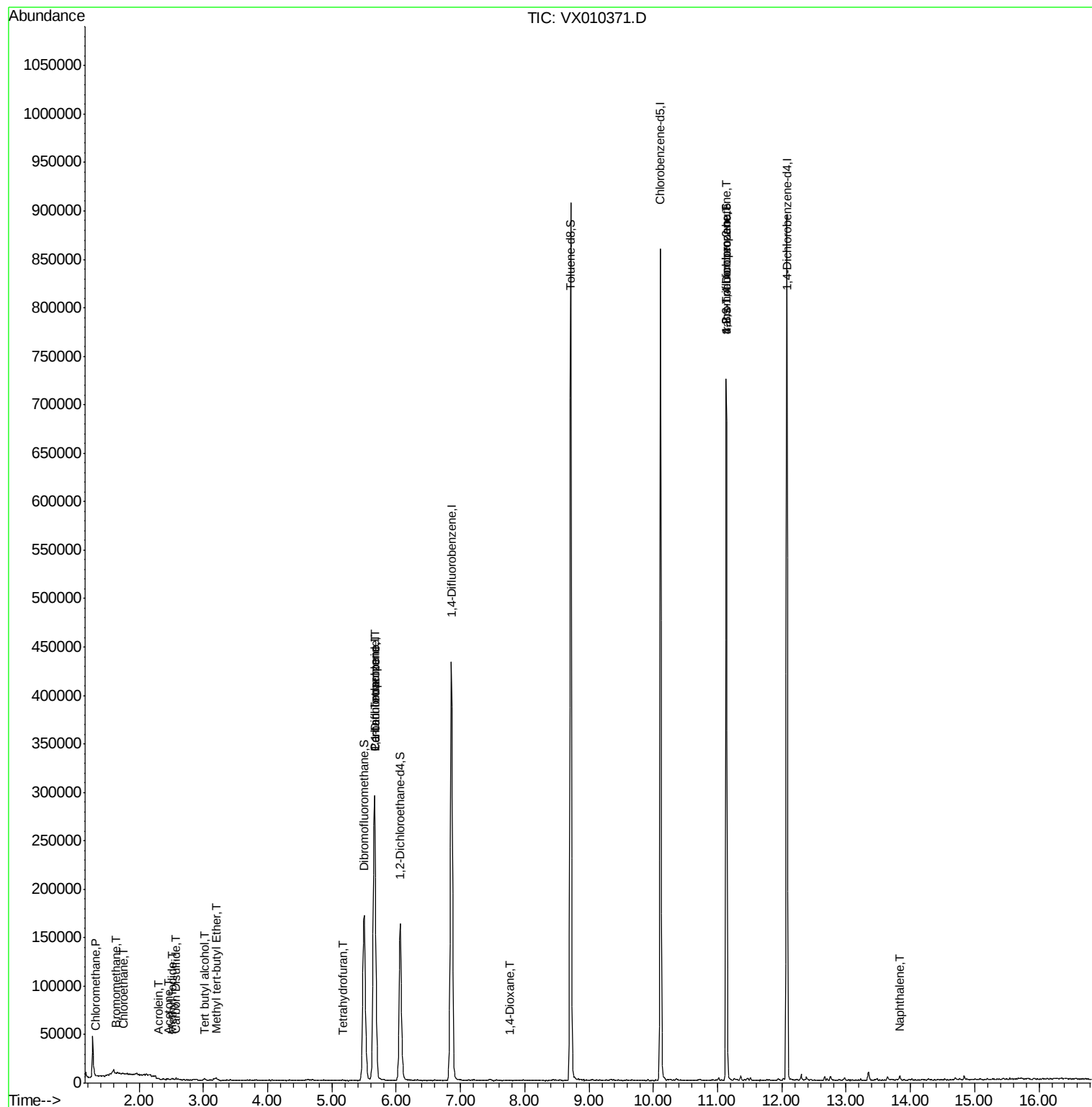
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	616	0.241	ug/l	97
5) Bromomethane	1.65	94	1178	0.863	ug/l #	51
6) Chloroethane	1.75	64	715	0.432	ug/l #	51
10) Methyl Iodide	2.52	142	2385	0.621	ug/l	99
11) Tert butyl alcohol	3.01	59	1013	1.306	ug/l #	75
13) Acrolein	2.31	56	275	0.534	ug/l #	82
16) Acetone	2.45	43	1247	0.839	ug/l	93
17) Carbon Disulfide	2.57	76	2019	0.275	ug/l #	90
19) Methyl tert-butyl Ether	3.20	73	2660	0.309	ug/l #	77
29) Tetrahydrofuran	5.17	42	336	0.249	ug/l	95
36) 1,1-Dichloropropene	5.67	75	19290	5.091	ug/l #	47
38) Carbon Tetrachloride	5.67	117	27899	6.799	ug/l #	14
49) 1,4-Dioxane	7.77	88	21	0.243	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	87809	24.383	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	87809	56.882	ug/l #	16
95) Naphthalene	13.83	128	2909	0.210	ug/l #	93

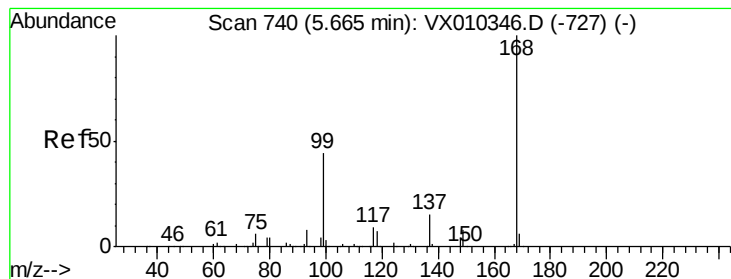
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jun 20 03:31:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010371.D

Acq: 20 Jun 2019 20:41

Instrument :

MSVOA_X

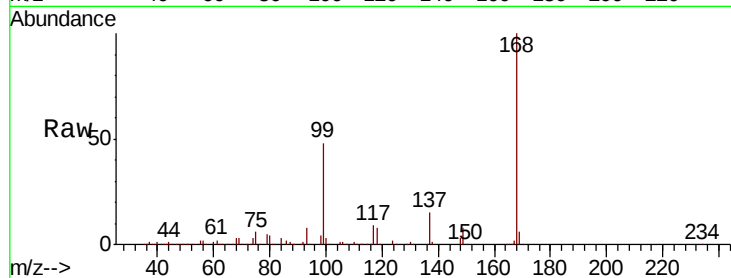
ClientSampleId :

Tot Ion:168 Resp: 316144

Ion Ratio Lower Upper

168 100

99 47.5 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

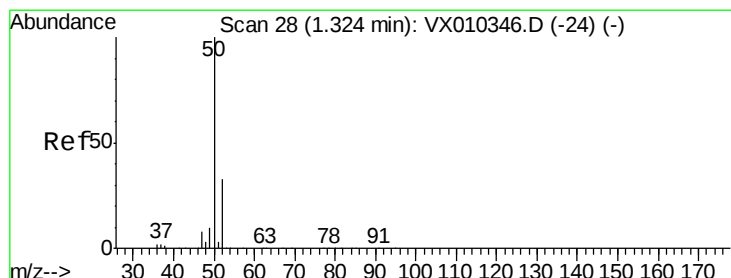
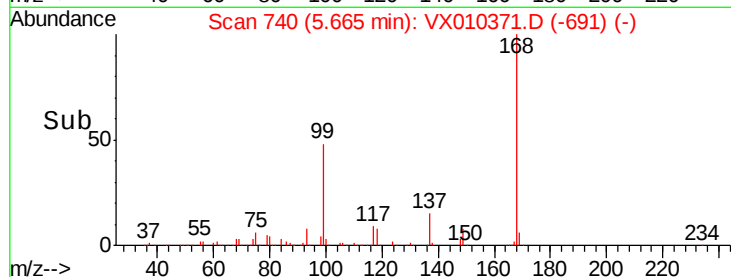
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.241 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX010371.D

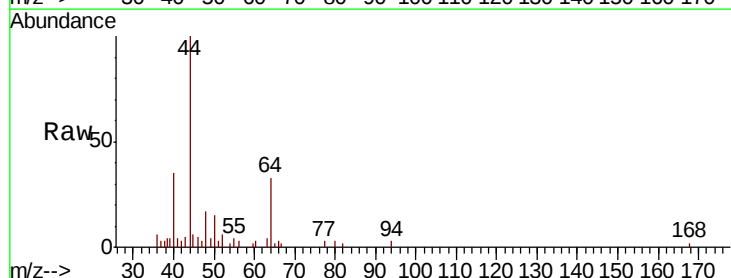
Acq: 20 Jun 2019 20:41

Tgt Ion: 50 Resp: 616

Ion Ratio Lower Upper

50 100

52 34.8 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

800

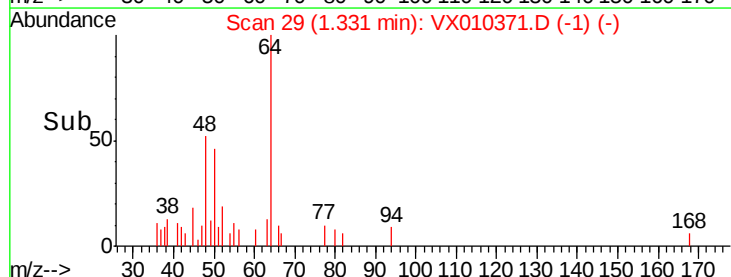
600

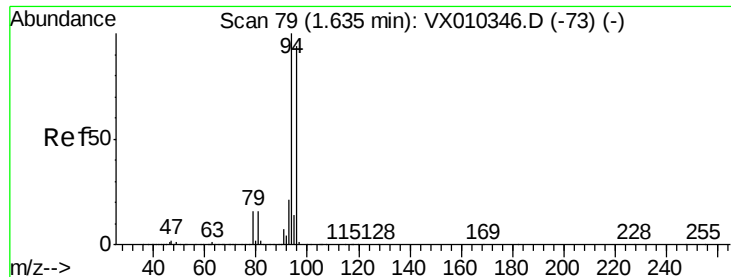
400

200

0

Time--> 1.30 1.35 1.40





#5

Bromomethane

Concen: 0.863 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010371.D

Acq: 20 Jun 2019 20:41

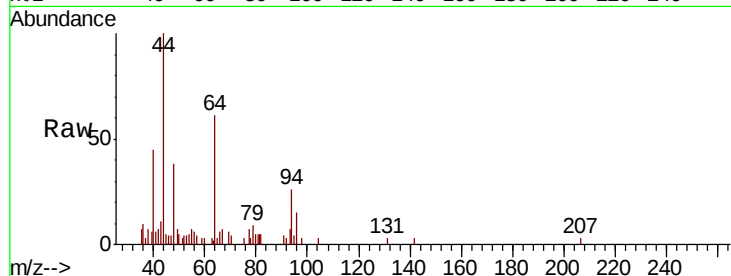
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 94 Resp: 1178

Ion Ratio Lower Upper

94 100

96 46.9 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

600

500

400

300

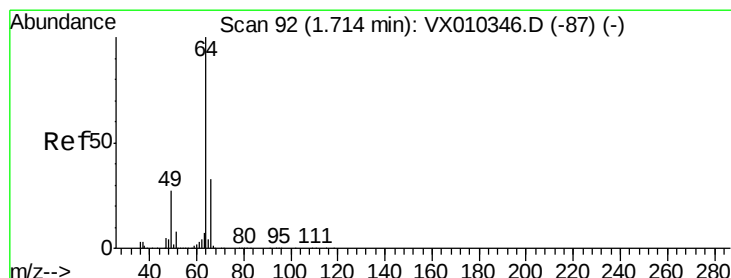
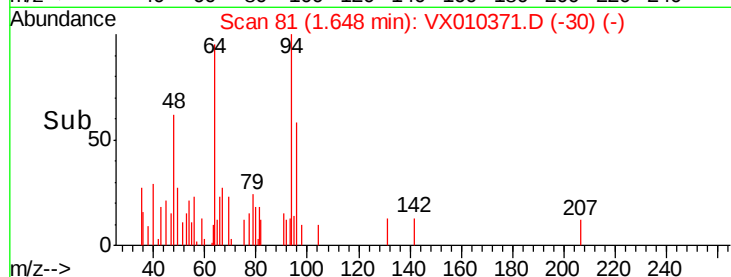
200

100

0

1.55 1.60 1.65 1.70 1.75

Time-->



#6

Chloroethane

Concen: 0.432 ug/l

RT: 1.75 min Scan# 98

Delta R.T. 0.04 min

Lab File: VX010371.D

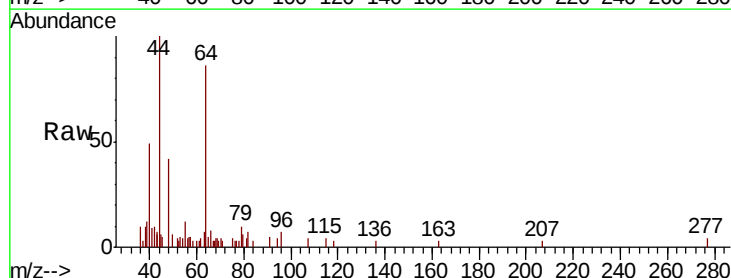
Acq: 20 Jun 2019 20:41

Tgt Ion: 64 Resp: 715

Ion Ratio Lower Upper

64 100

66 5.5 26.6 40.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.75

1500

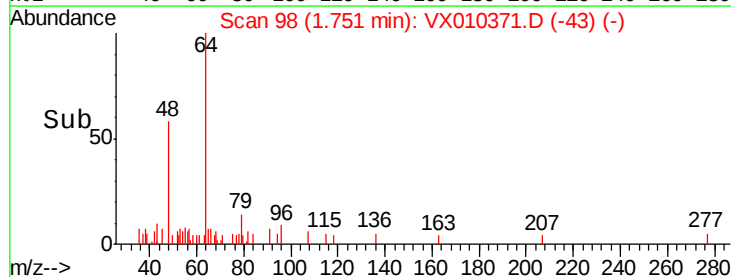
1000

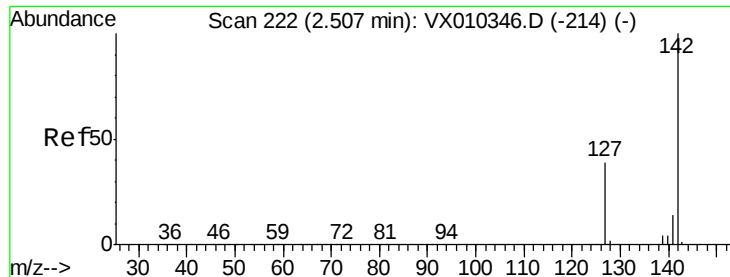
500

0

1.72 1.74 1.76 1.78

Time-->

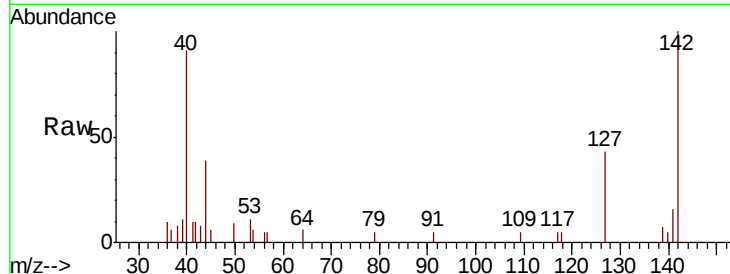




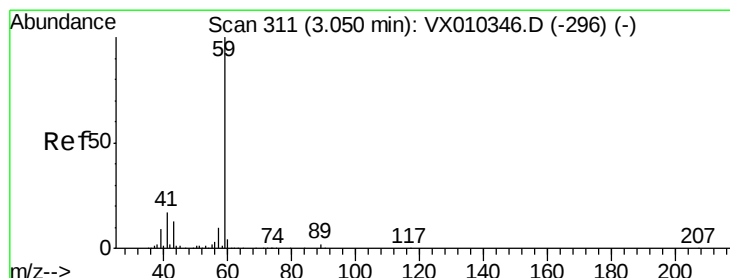
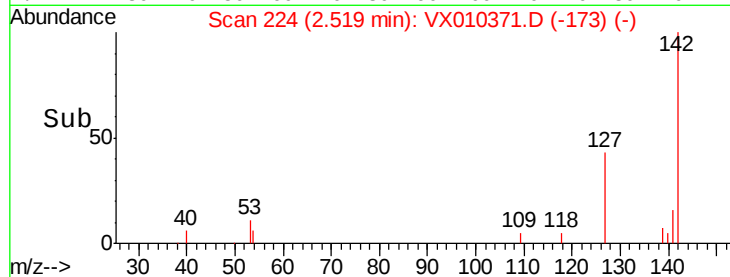
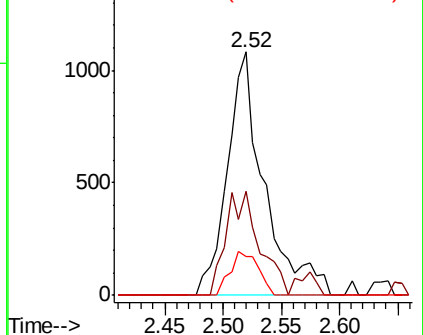
#10
Methvl Iodide
Concen: 0.621 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX010371.D
Acq: 20 Jun 2019 20:41

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:142 Resp: 2385
Ion Ratio Lower Upper
142 100
127 38.5 31.1 46.7
141 13.8 11.2 16.8

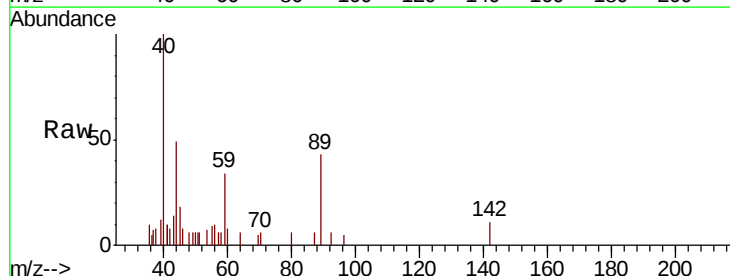


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

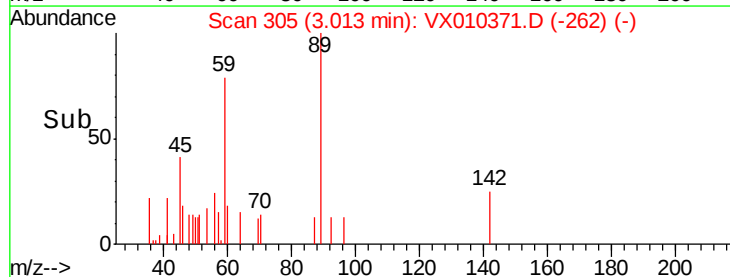
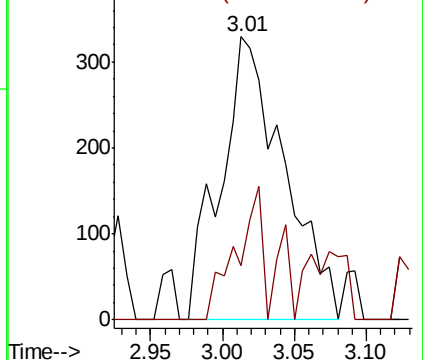


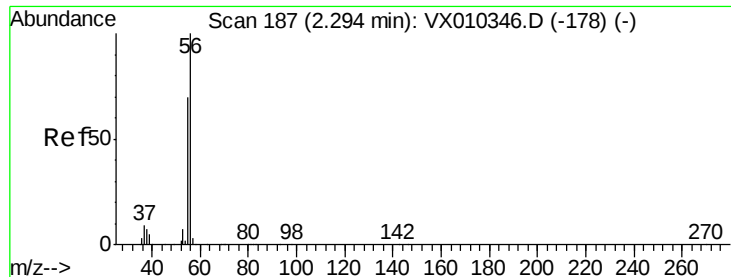
#11
Tert butyl alcohol
Concen: 1.306 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX010371.D
Acq: 20 Jun 2019 20:41

Tgt Ion: 59 Resp: 1013
Ion Ratio Lower Upper
59 100
57 19.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.534 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX010371.D

Acq: 20 Jun 2019 20:41

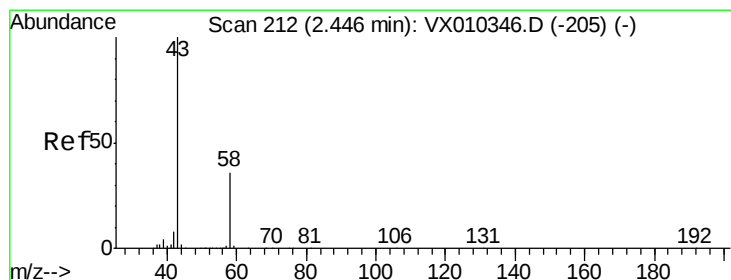
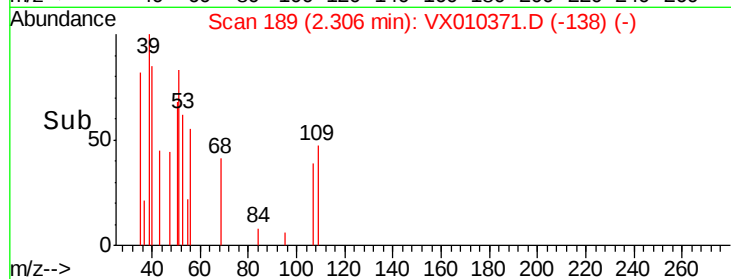
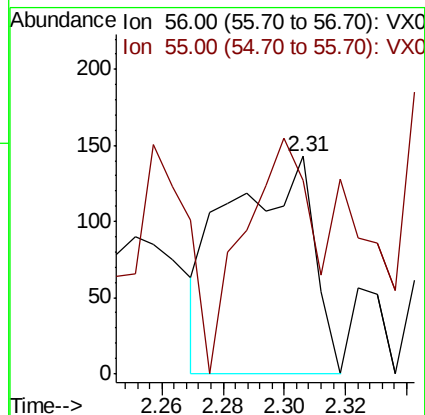
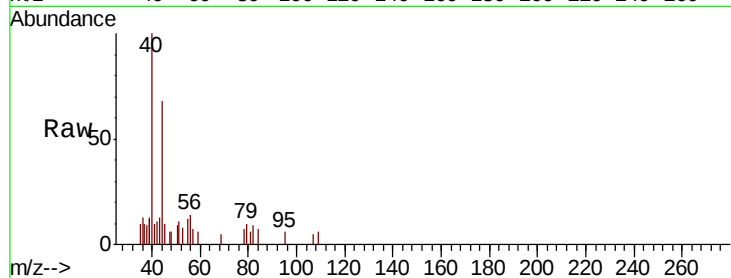
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 275

Ion Ratio Lower Upper

56 100

55 85.8 56.9 85.3#



#16

Acetone

Concen: 0.839 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010371.D

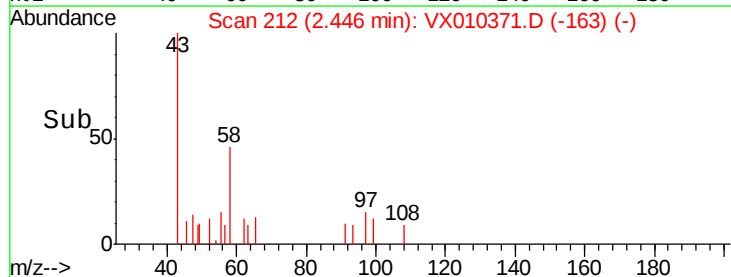
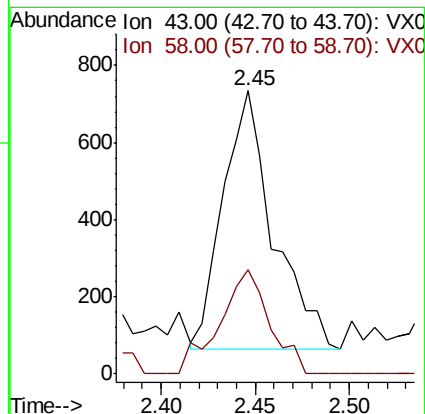
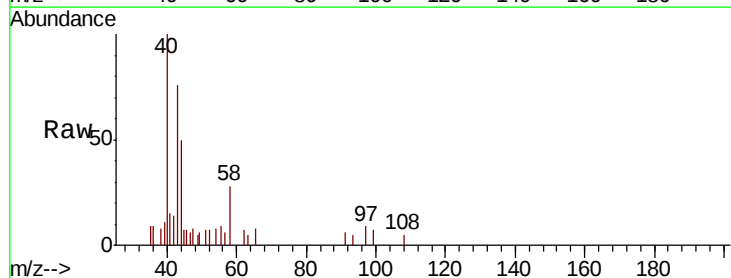
Acq: 20 Jun 2019 20:41

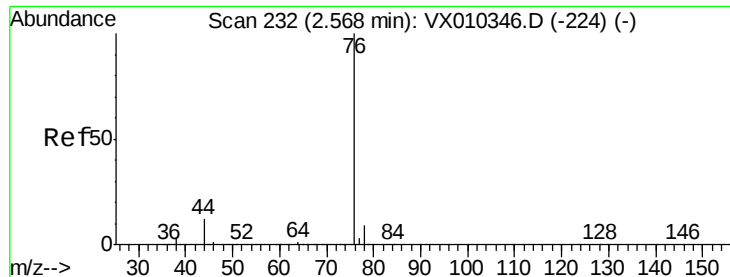
Tgt Ion: 43 Resp: 1247

Ion Ratio Lower Upper

43 100

58 40.1 28.9 43.3

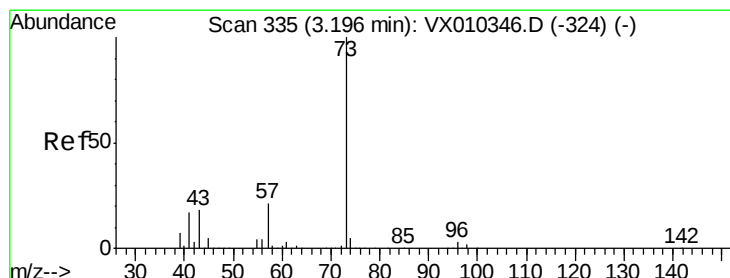
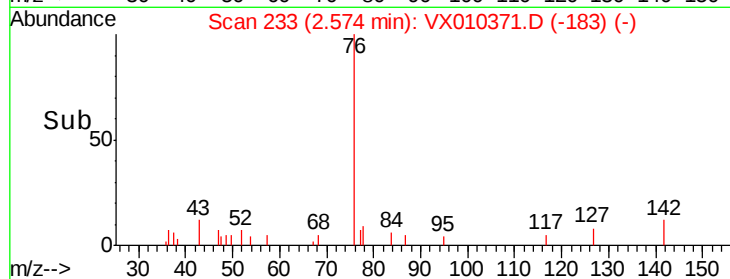
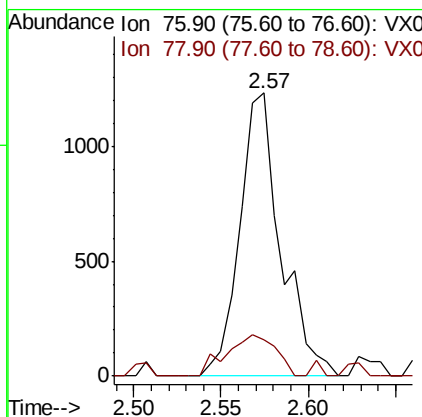
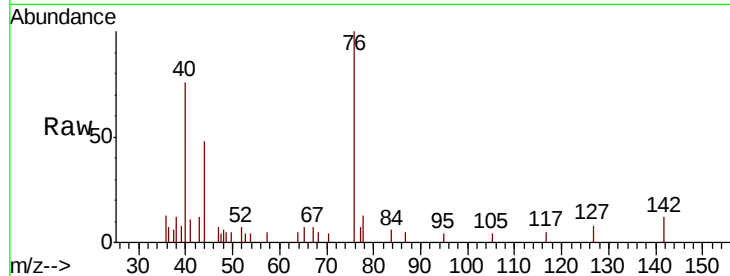




#17
Carbon Disulfide
Concen: 0.275 ug/l
RT: 2.57 min Scan# 233
Delta R.T. 0.01 min
Lab File: VX010371.D
Acq: 20 Jun 2019 20:41

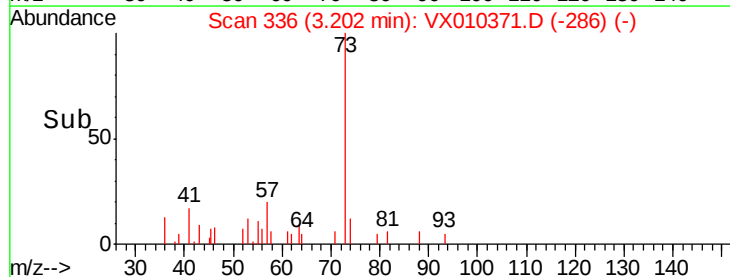
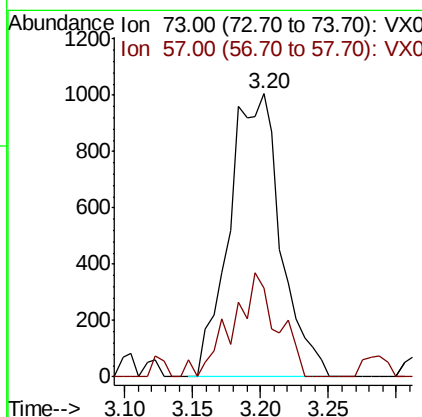
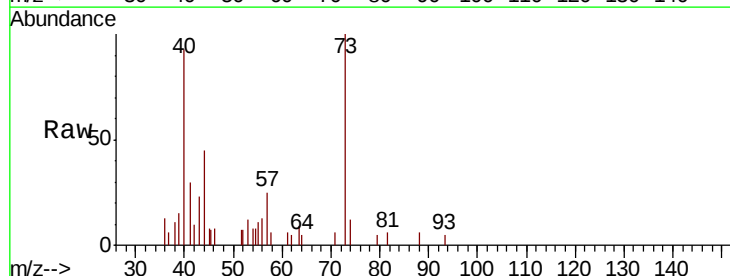
Instrument :
MSVOA_X
ClientSampleId :

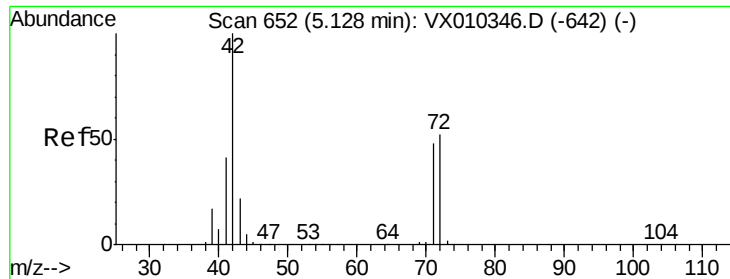
Tot Ion: 76 Resp: 2019
Ion Ratio Lower Upper
76 100
78 12.8 7.3 10.9#



#19
Methyl tert-butyl Ether
Concen: 0.309 ug/l
RT: 3.20 min Scan# 336
Delta R.T. 0.01 min
Lab File: VX010371.D
Acq: 20 Jun 2019 20:41

Tgt Ion: 73 Resp: 2660
Ion Ratio Lower Upper
73 100
57 31.3 16.4 24.6#

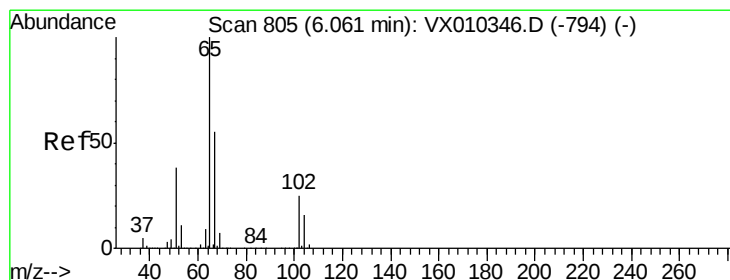
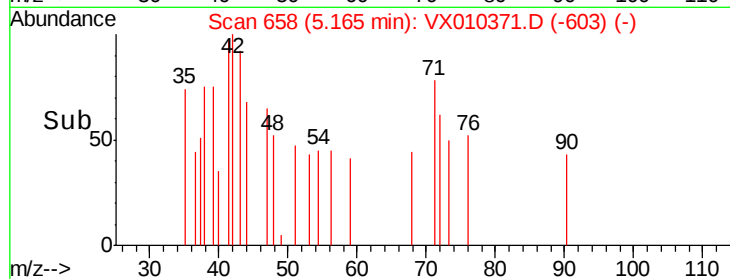
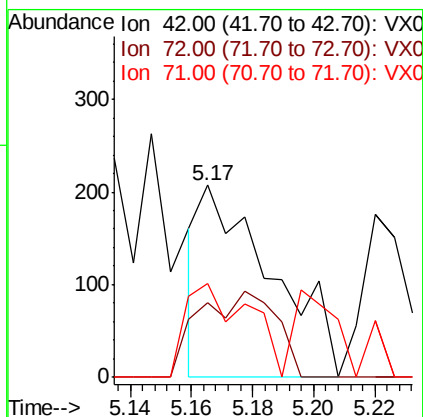
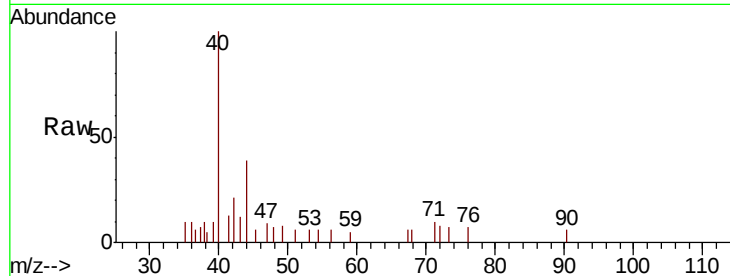




#29
Tetrahydrofuran
Concen: 0.249 ug/l
RT: 5.17 min Scan# 658
Delta R.T. 0.04 min
Lab File: VX010371.D
Acq: 20 Jun 2019 20:41

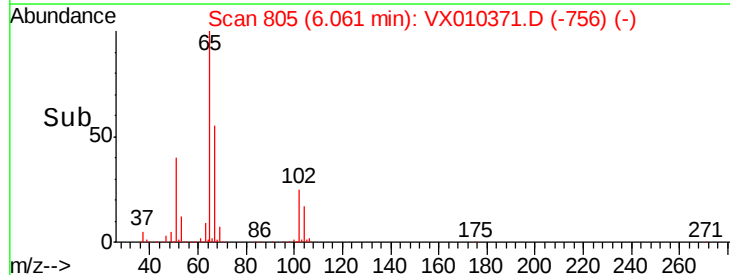
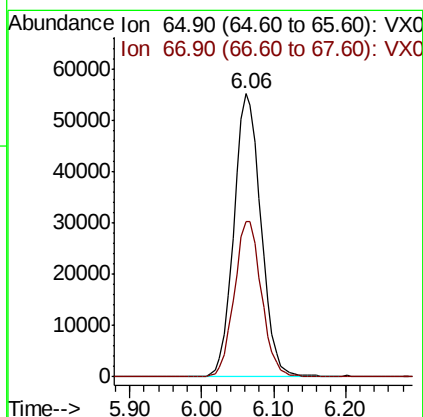
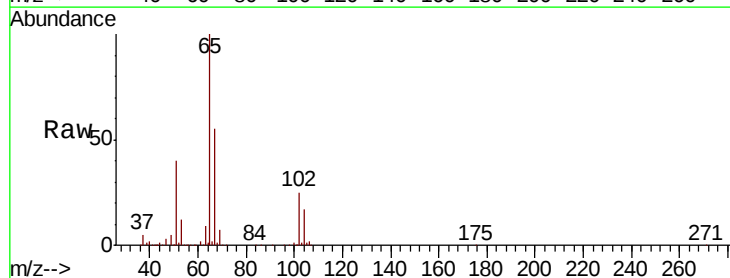
Instrument :
MSVOA_X
ClientSampled :

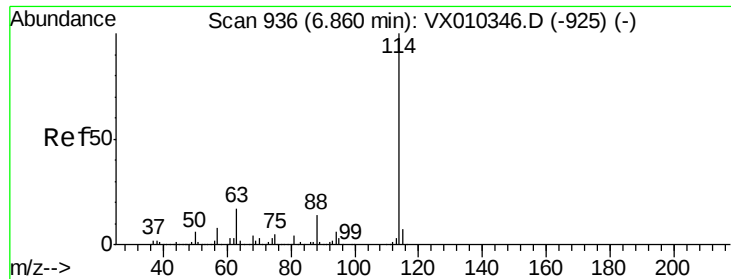
Tot Ion: 42 Resp: 336
Ion Ratio Lower Upper
42 100
72 48.2 40.6 60.8
71 43.2 37.8 56.8



#33
1,2-Dichloroethane-d4
Concen: 48.634 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX010371.D
Acq: 20 Jun 2019 20:41

Tgt Ion: 65 Resp: 144159
Ion Ratio Lower Upper
65 100
67 55.0 0.0 110.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX010371.D

Acq: 20 Jun 2019 20:41

Instrument :

MSVOA_X

ClientSampleId :

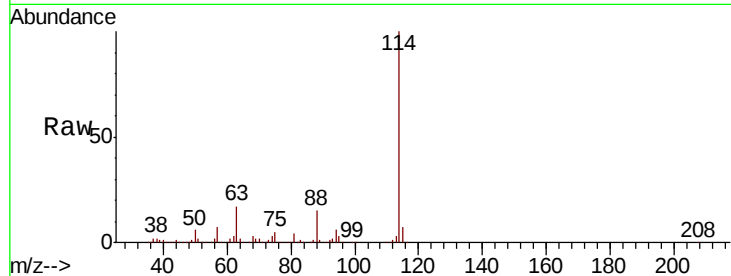
Tot Ion:114 Resp: 476852

Ion Ratio Lower Upper

114 100

63 16.7 0.0 33.8

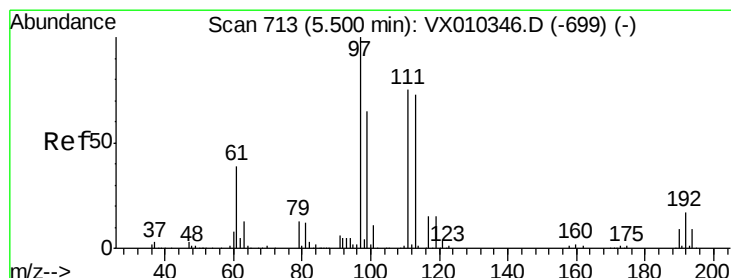
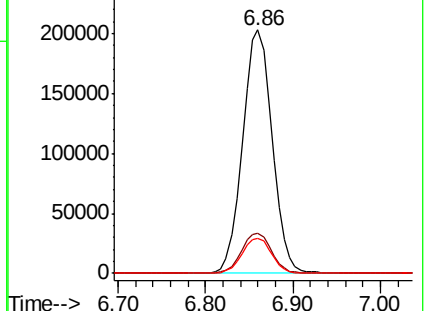
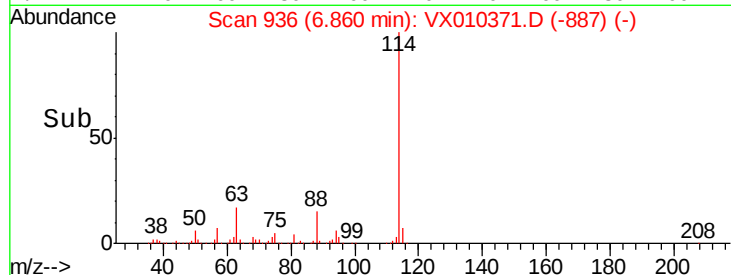
88 14.5 0.0 27.6



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: 50.328 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010371.D

Acq: 20 Jun 2019 20:41

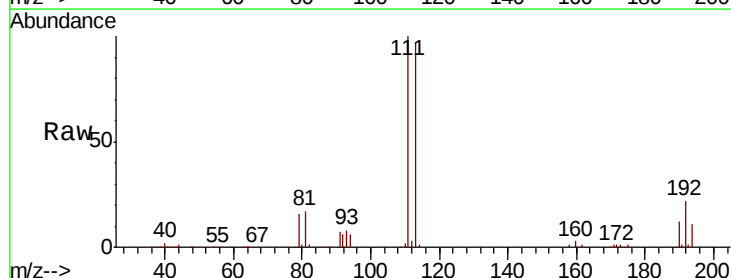
Tgt Ion:113 Resp: 146834

Ion Ratio Lower Upper

113 100

111 101.5 81.2 121.8

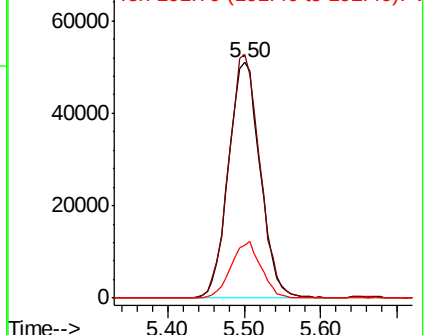
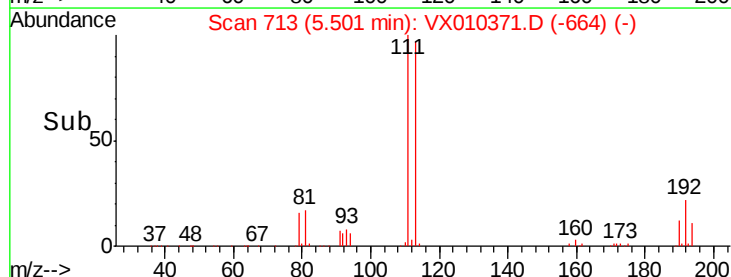
192 22.7 18.6 27.8

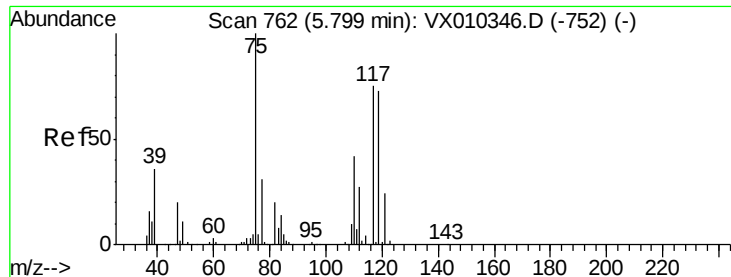


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.091 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX010371.D

Acq: 20 Jun 2019 20:41

Instrument :

MSVOA_X

ClientSampleId :

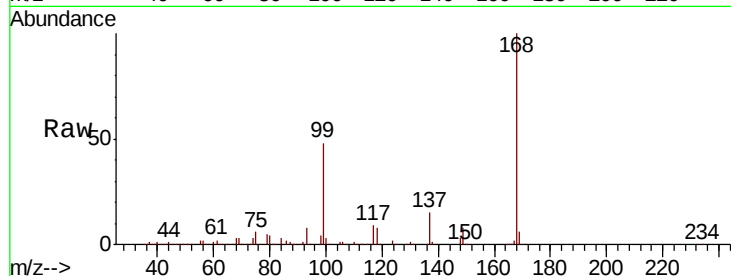
Tot Ion: 75 Resp: 19290

Ion Ratio Lower Upper

75 100

110 9.5 20.8 62.2#

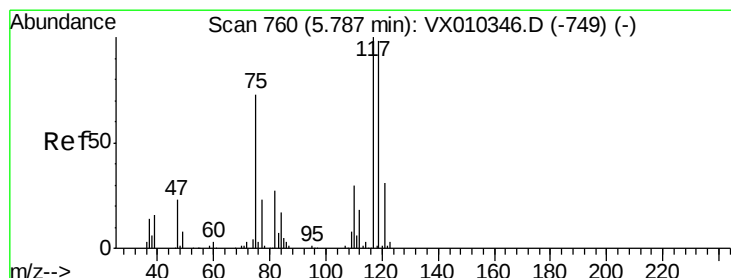
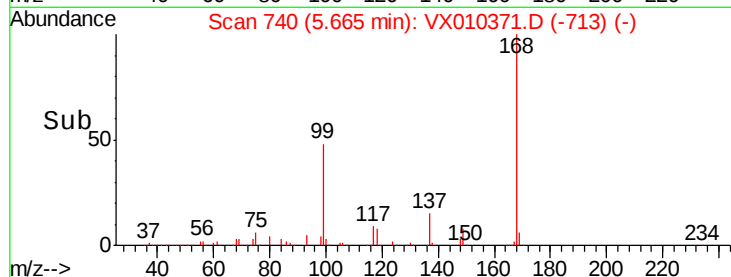
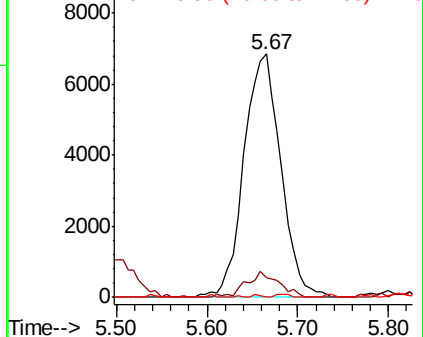
77 0.3 25.4 38.0#



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: 6.799 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX010371.D

Acq: 20 Jun 2019 20:41

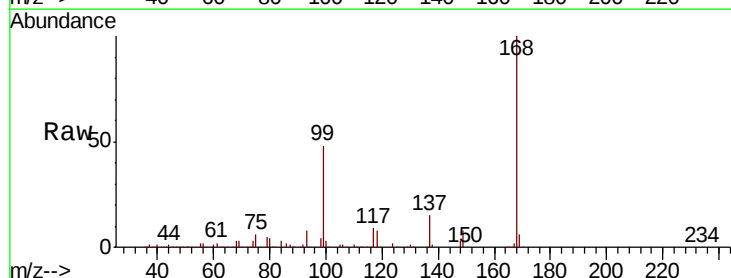
Tgt Ion: 117 Resp: 27899

Ion Ratio Lower Upper

117 100

119 4.1 78.2 117.4#

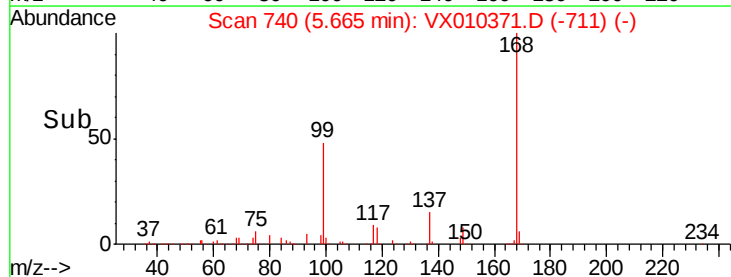
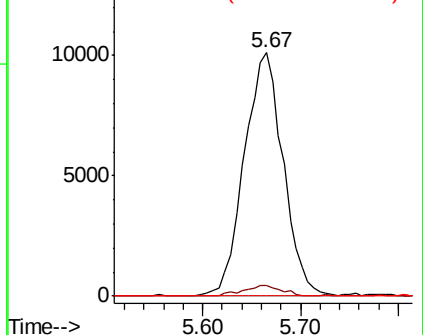
121 0.0 24.7 37.1#

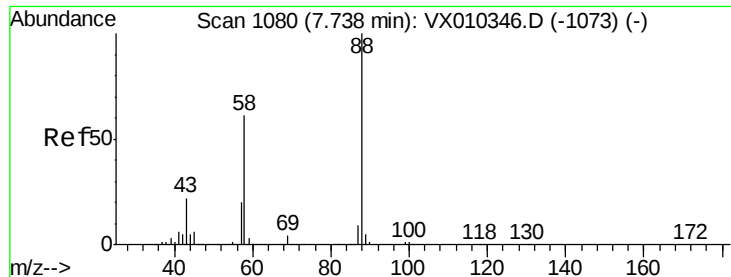


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

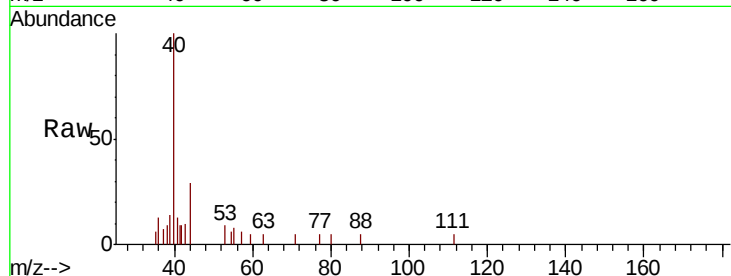




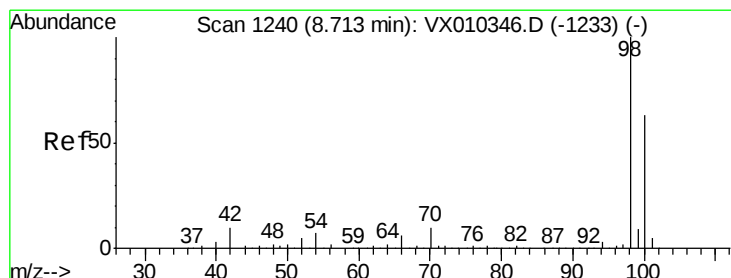
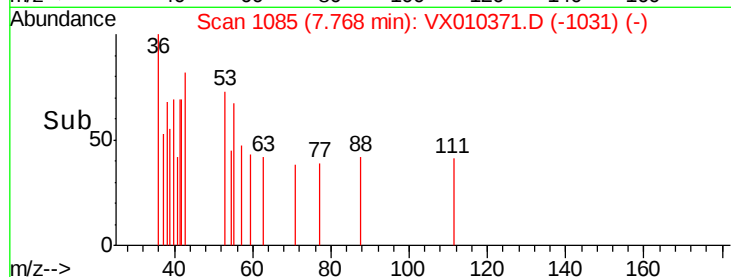
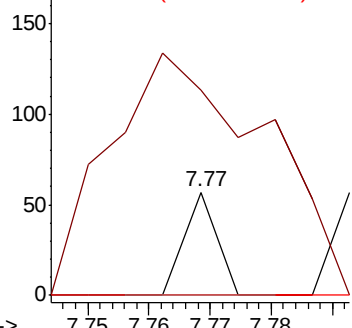
#49
1,4-Dioxane
Concen: 0.243 ug/l
RT: 7.77 min Scan# 1085
Delta R.T. 0.03 min
Lab File: VX010371.D
Acq: 20 Jun 2019 20:41

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 88 Resp: 21
Ion Ratio Lower Upper
88 100
43 1123.8 20.2 30.2#
58 0.0 49.5 74.3#

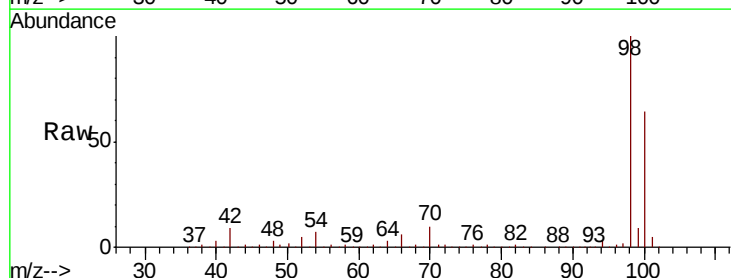


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

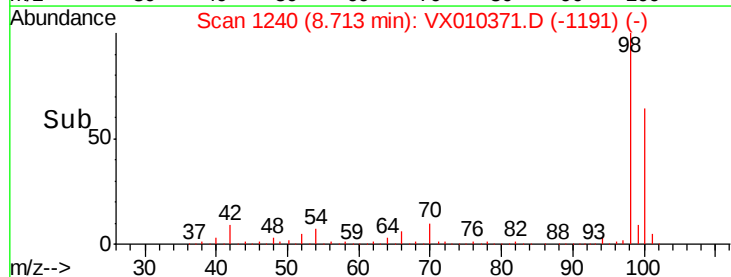
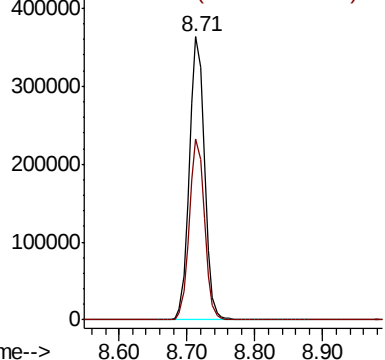


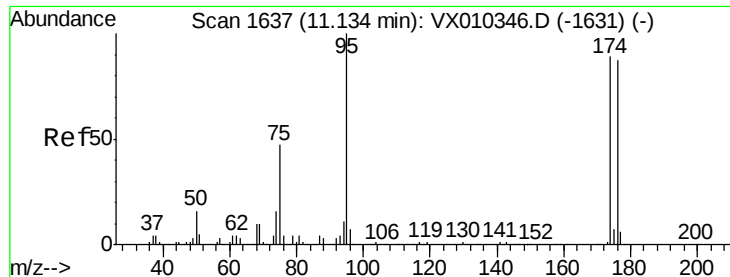
#50
Toluene-d8
Concen: 50.202 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010371.D
Acq: 20 Jun 2019 20:41

Tgt Ion: 98 Resp: 560356
Ion Ratio Lower Upper
98 100
100 64.2 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 46.130 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010371.D

Acq: 20 Jun 2019 20:41

Instrument :

MSVOA_X

ClientSampleId :

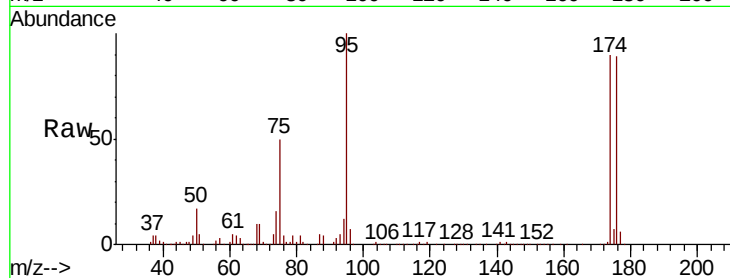
Tot Ion: 95 Resp: 185894

Ion Ratio Lower Upper

95 100

174 95.5 0.0 187.6

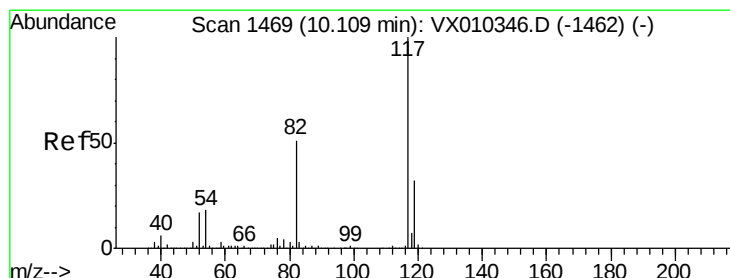
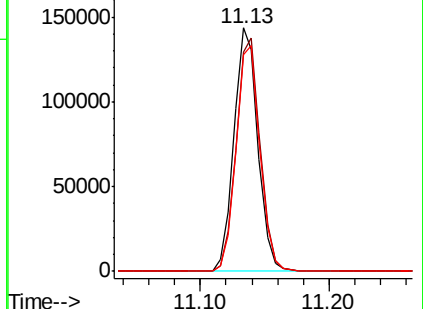
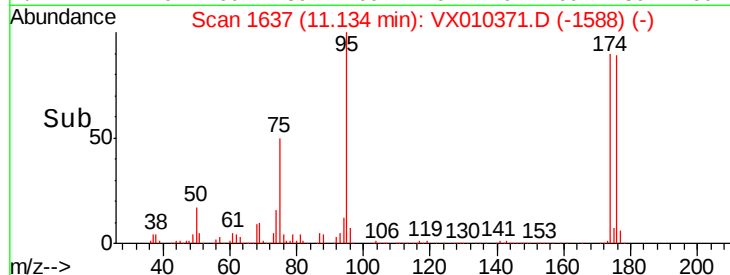
176 92.5 0.0 184.0



Abundance Ion 94.90 (94.60 to 95.60): VX010371.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX010371.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX010371.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX010371.D

Acq: 20 Jun 2019 20:41

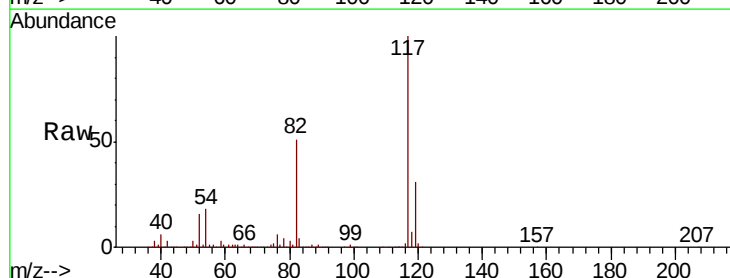
Tgt Ion: 117 Resp: 426771

Ion Ratio Lower Upper

117 100

82 51.3 41.2 61.8

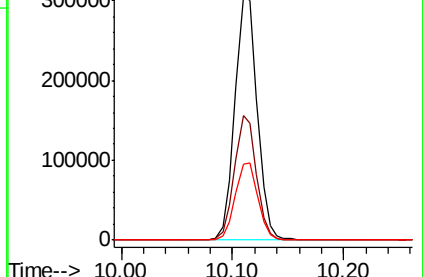
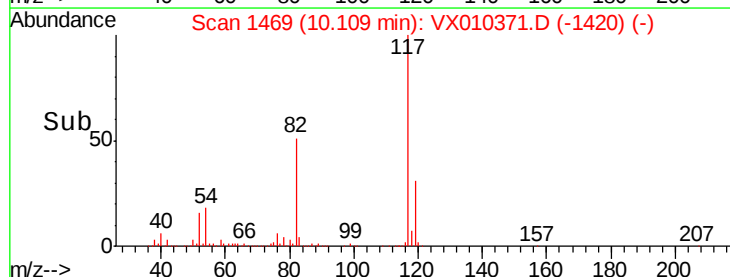
119 31.2 25.5 38.3

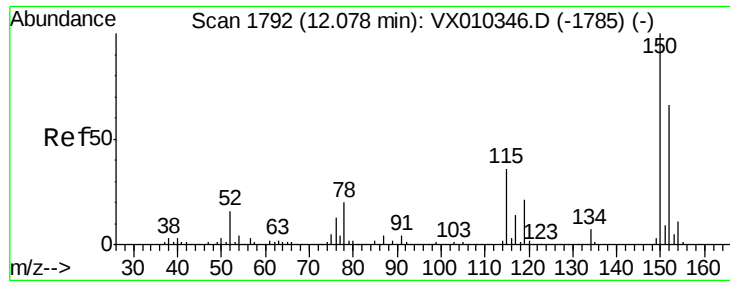


Abundance Ion 116.90 (116.60 to 117.60): VX010371.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX010371.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX010371.D (-1420) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX010371.D

Acq: 20 Jun 2019 20:41

Instrument :

MSVOA_X

ClientSampleId :

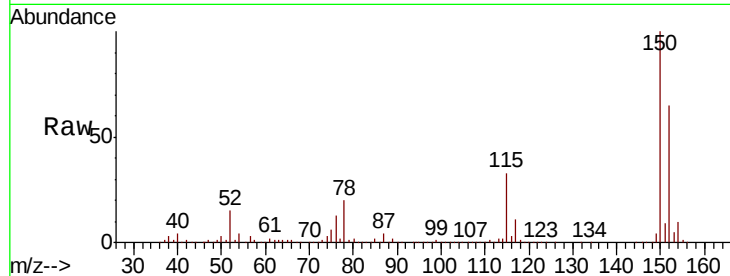
Tot Ion:152 Resp: 197628

Ion Ratio Lower Upper

152 100

115 53.5 38.6 115.7

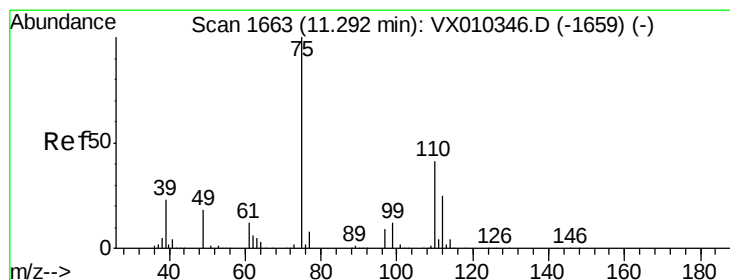
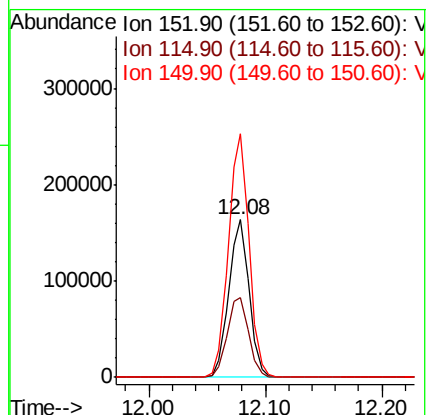
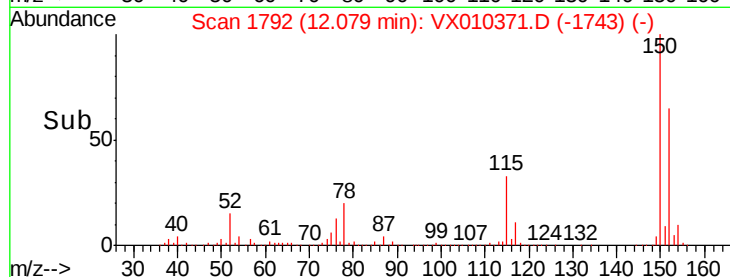
150 155.5 0.0 347.4



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: 24.383 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010371.D

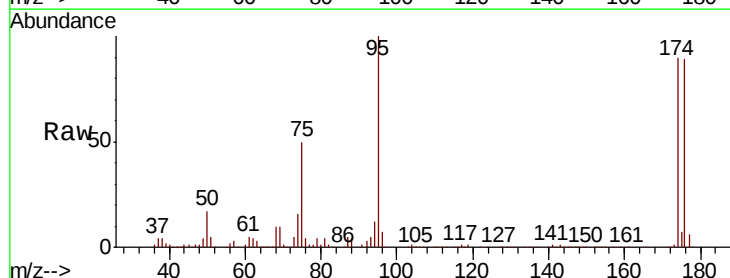
Acq: 20 Jun 2019 20:41

Tgt Ion: 75 Resp: 87809

Ion Ratio Lower Upper

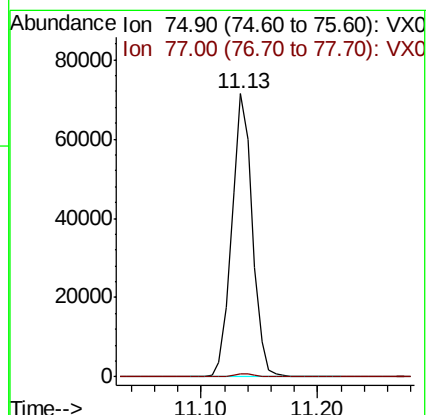
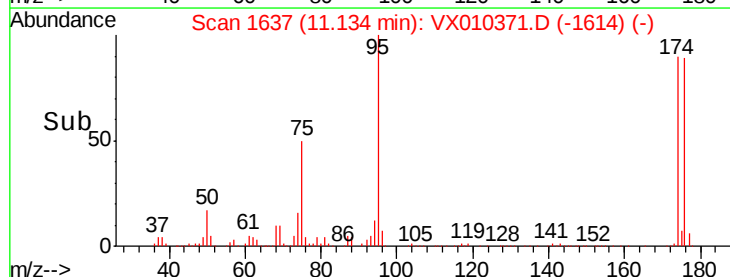
75 100

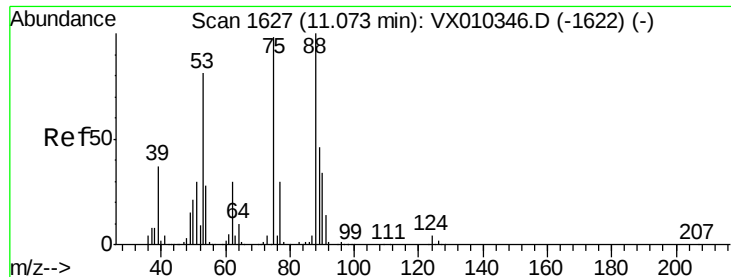
77 1.5 22.6 67.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

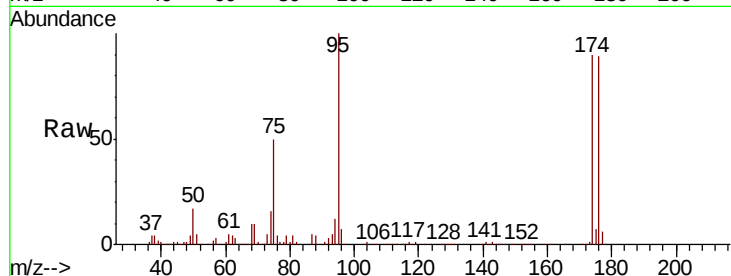




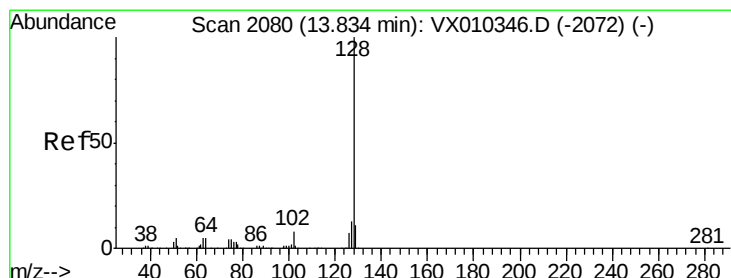
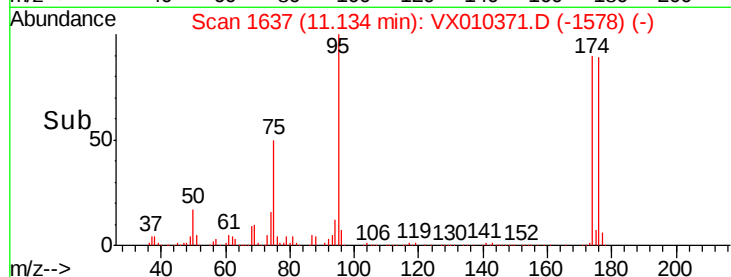
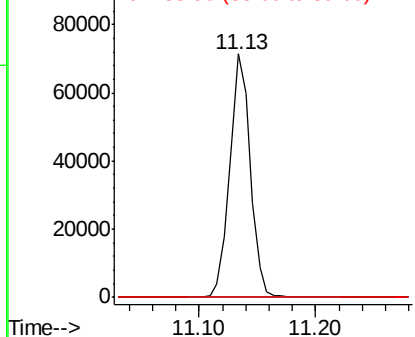
#81
trans-1,4-Dichloro-2-butene
Concen: 56.882 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX010371.D
Acq: 20 Jun 2019 20:41

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 75 Resp: 87809
Ion Ratio Lower Upper
75 100
53 0.0 66.1 99.1#
89 0.0 37.8 56.6#

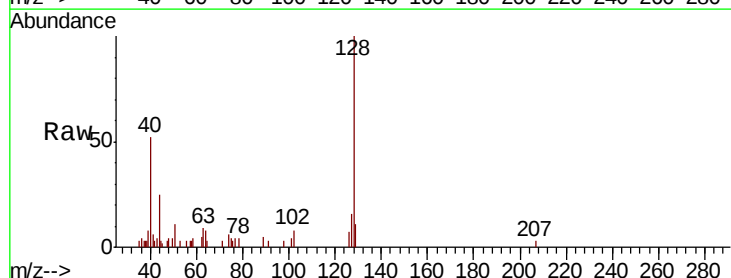


Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#95
Naphthalene
Concen: 0.210 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX010371.D
Acq: 20 Jun 2019 20:41

Tgt Ion: 128 Resp: 2909
Ion Ratio Lower Upper
128 100
127 10.2 10.2 15.4
129 7.8 8.9 13.3#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

