

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX041119\
 Data File : VX008857.D
 Acq On : 11 Apr 2019 17:17
 Operator : JC/SP
 Sample : K2349-11
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY062MW139-190409

Quant Time: Apr 12 07:36:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 04 04:47:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	198932	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	320891	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	280809	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	121850	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	131197	45.22	ug/l	0.00
Spiked Amount			Recovery	=	90.44%	
35) Dibromofluoromethane	5.50	113	94888	46.25	ug/l	0.00
Spiked Amount			Recovery	=	92.50%	
50) Toluene-d8	8.71	98	400494	49.03	ug/l	0.00
Spiked Amount			Recovery	=	98.06%	
62) 4-Bromofluorobenzene	11.13	95	136911	47.26	ug/l	0.00
Spiked Amount			Recovery	=	94.52%	

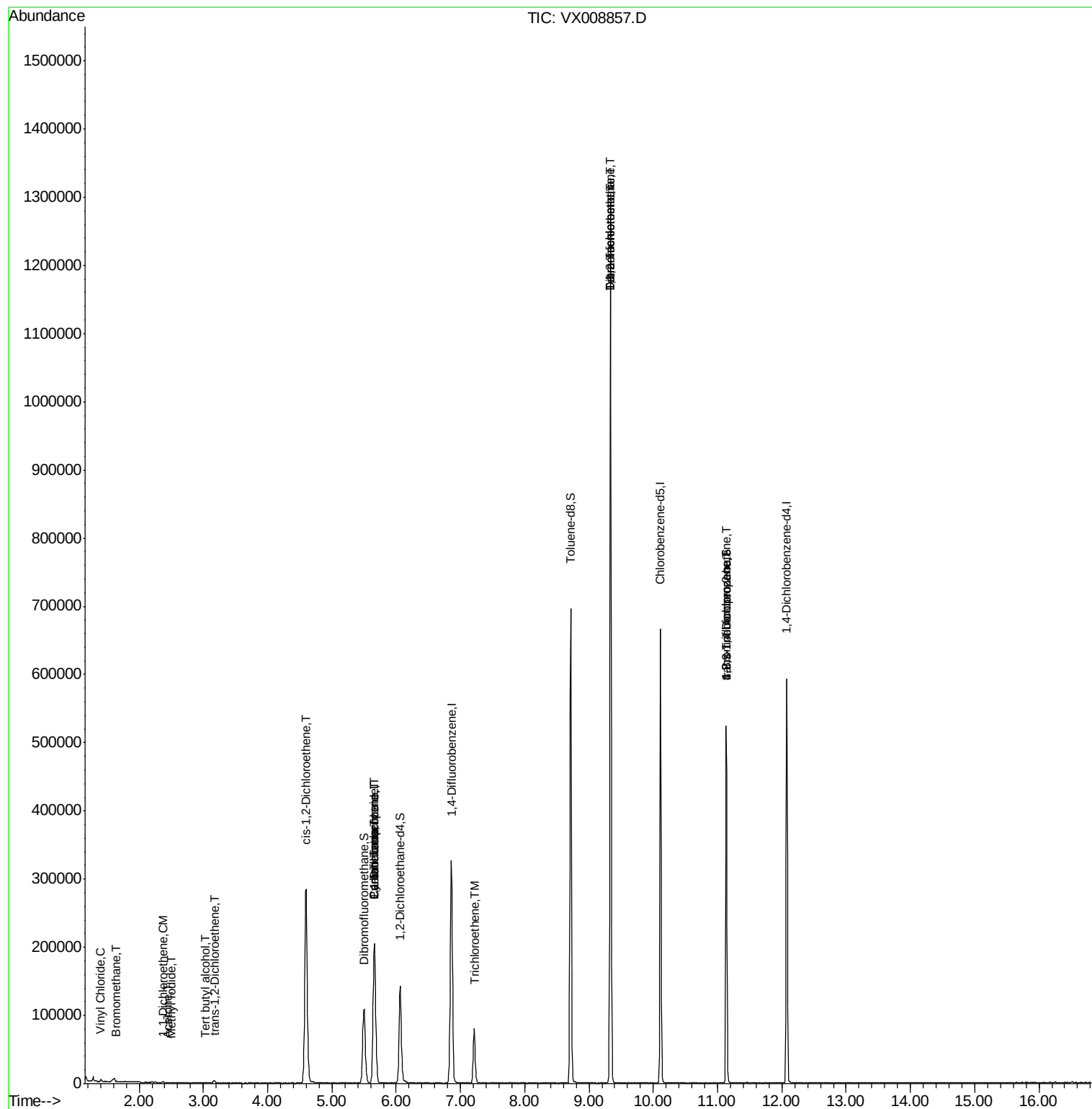
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	318	Below Cal		96
4) Vinyl Chloride	1.40	62	1881	0.608	ug/l	97
5) Bromomethane	1.64	94	262	2.051	ug/l	85
6) Chloroethane	1.71	64	117	Below Cal	#	43
10) Methyl Iodide	2.50	142	108	4.053	ug/l #	42
11) Tert butyl alcohol	3.03	59	827	1.217	ug/l #	90
12) 1,1-Dichloroethene	2.38	96	746	0.324	ug/l	80
16) Acetone	2.45	43	719	0.430	ug/l	98
17) Carbon Disulfide	2.57	76	463	Below Cal	#	75
21) trans-1,2-Dichloroethene	3.17	96	1450	0.583	ug/l	93
27) cis-1,2-Dichloroethene	4.60	96	178034	62.248	ug/l	89
28) Bromochloromethane	5.03	49	20	Below Cal	#	22
31) Cyclohexane	5.67	56	4509	0.899	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	16140	4.601	ug/l #	51
38) Carbon Tetrachloride	5.66	117	18884	6.505	ug/l #	18
44) Trichloroethene	7.21	130	30553	12.554	ug/l	99
55) 1,1,2-Trichloroethane	9.34	97	2130	0.861	ug/l #	1
60) Dibromochloromethane	9.34	129	231632	99.400	ug/l #	11
64) Tetrachloroethene	9.34	164	245640	118.068	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	69207	20.675	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	69207	56.992	ug/l #	9

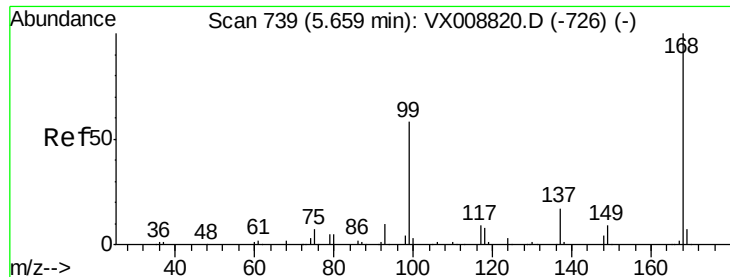
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX008857.D

Acq: 11 Apr 2019 17:17

Instrument :

MSVOA_X

ClientSampleId :

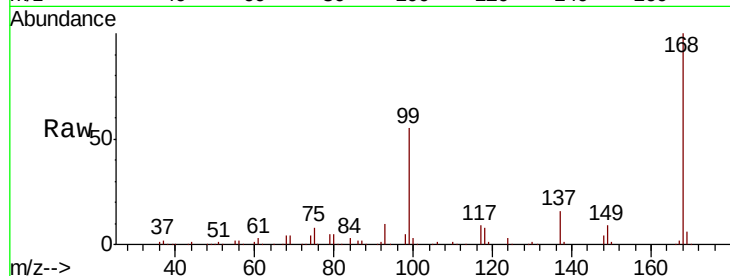
KY062MW139-190409

Tgt Ion:168 Resp: 198932

Ion Ratio Lower Upper

168 100

99 55.1 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

60000

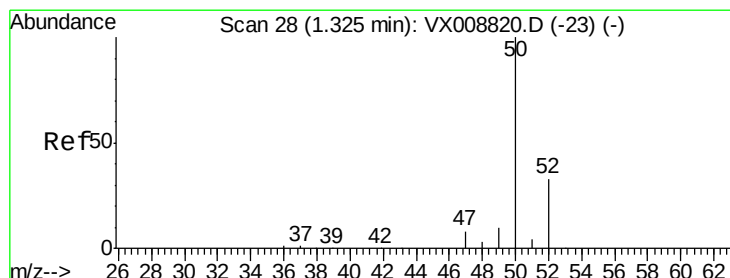
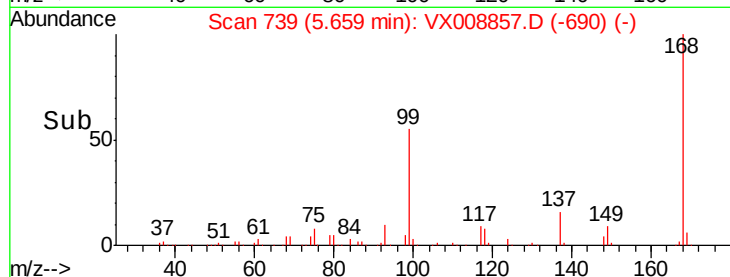
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX008857.D

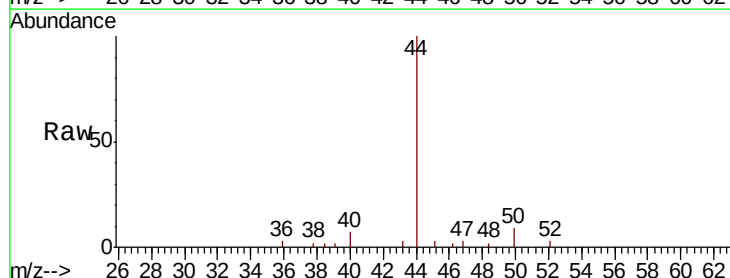
Acq: 11 Apr 2019 17:17

Tgt Ion: 50 Resp: 318

Ion Ratio Lower Upper

50 100

52 34.5 25.8 38.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

300

250

200

150

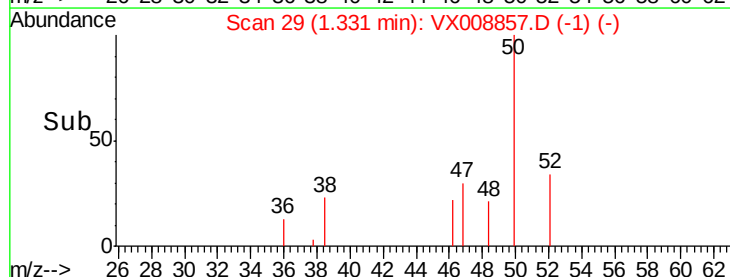
100

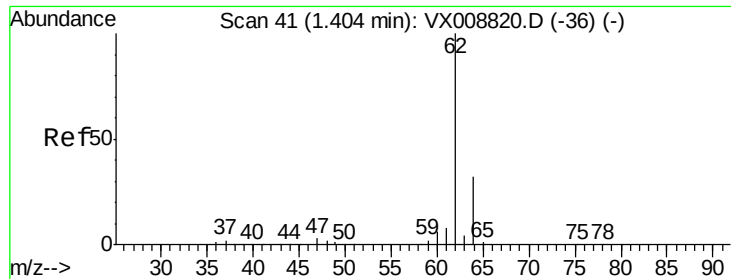
50

0

Time-->

1.28 1.30 1.32 1.34 1.36





#4

Vinyl Chloride

Concen: 0.608 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.01 min

Lab File: VX008857.D

Acq: 11 Apr 2019 17:17

Instrument :

MSVOA_X

ClientSampleId :

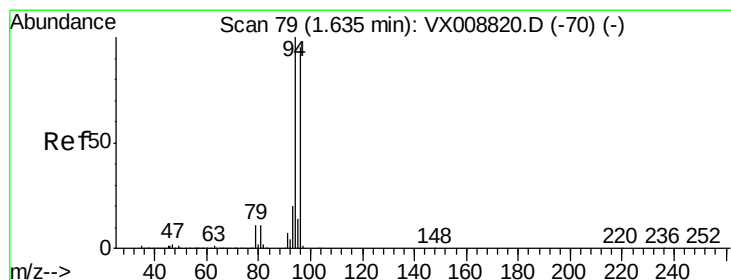
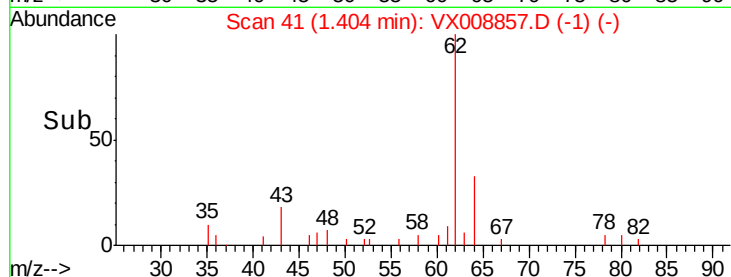
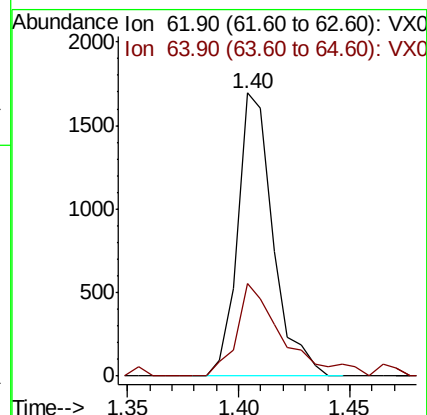
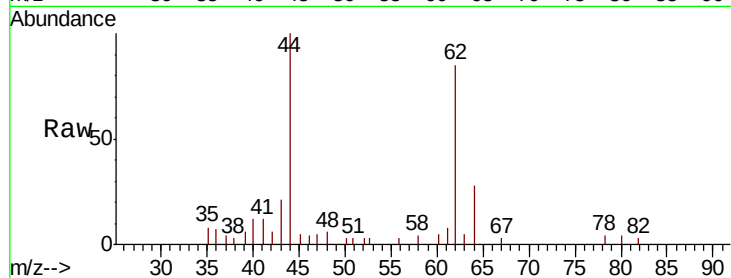
KY062MW139-190409

Tgt Ion: 62 Resp: 1881

Ion Ratio Lower Upper

62 100

64 32.7 24.7 37.1



#5

Bromomethane

Concen: 2.051 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008857.D

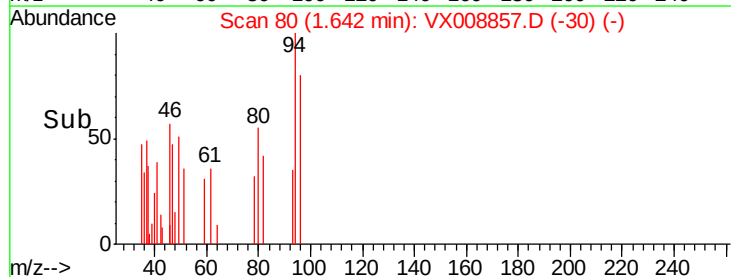
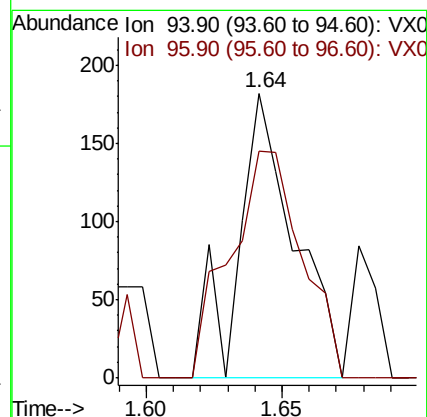
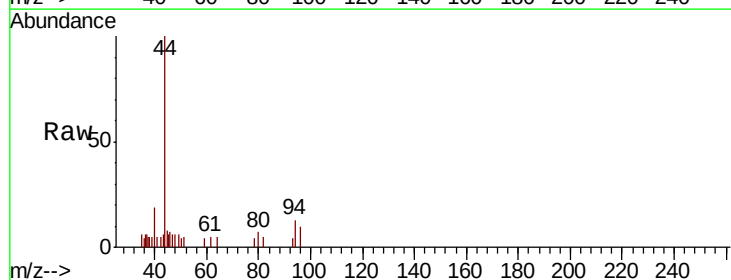
Acq: 11 Apr 2019 17:17

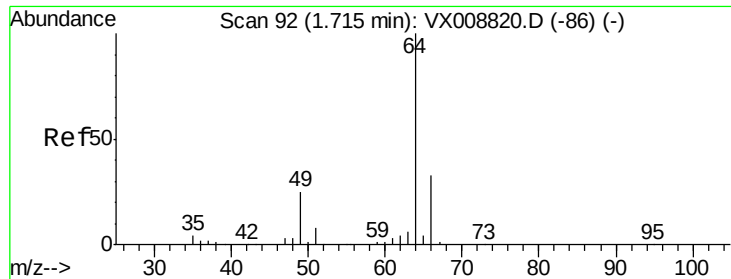
Tgt Ion: 94 Resp: 262

Ion Ratio Lower Upper

94 100

96 79.7 75.2 112.8





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 92

Delta R.T. 0.00 min

Lab File: VX008857.D

Acq: 11 Apr 2019 17:17

Instrument :

MSVOA_X

ClientSampleId :

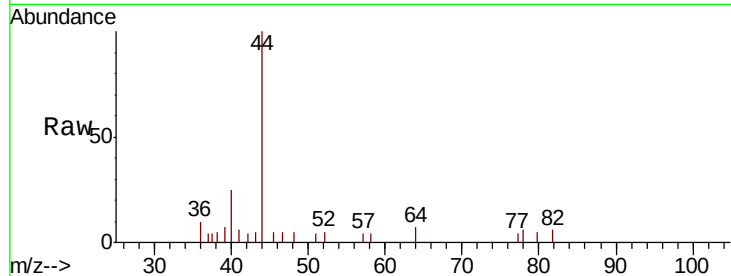
KY062MW139-190409

Tgt Ion: 64 Resp: 117

Ion Ratio Lower Upper

64 100

66 0.0 25.4 38.0#



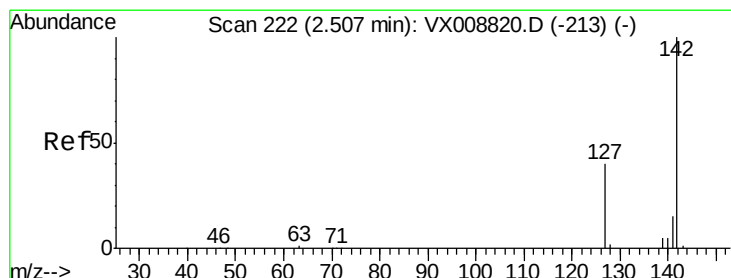
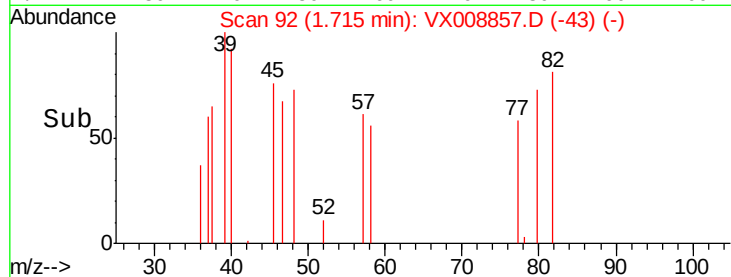
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.71

1.75

Time-->



#10

Methyl Iodide

Concen: 4.053 ug/l

RT: 2.50 min Scan# 221

Delta R.T. -0.01 min

Lab File: VX008857.D

Acq: 11 Apr 2019 17:17

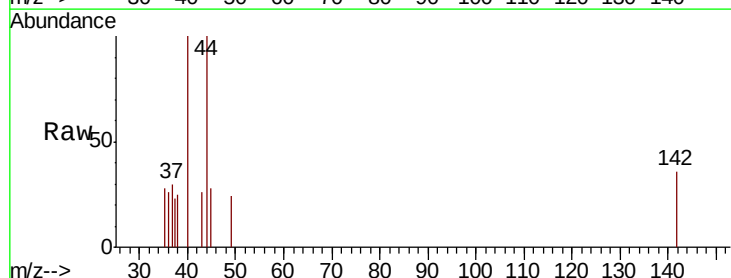
Tgt Ion: 142 Resp: 108

Ion Ratio Lower Upper

142 100

127 0.0 33.0 49.6#

141 0.0 11.4 17.2#



Abundance Ion 141.80 (141.50 to 142.50): V

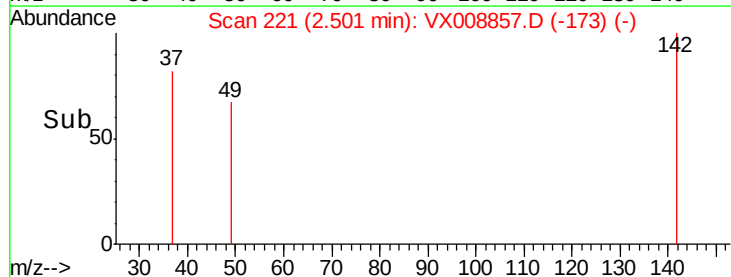
Ion 126.80 (126.50 to 127.50): V

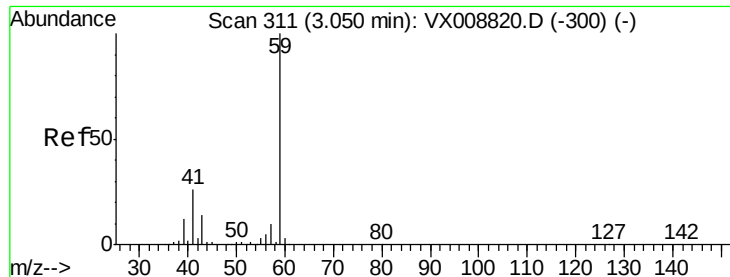
Ion 140.80 (140.50 to 141.50): V

2.50

2.54

Time-->

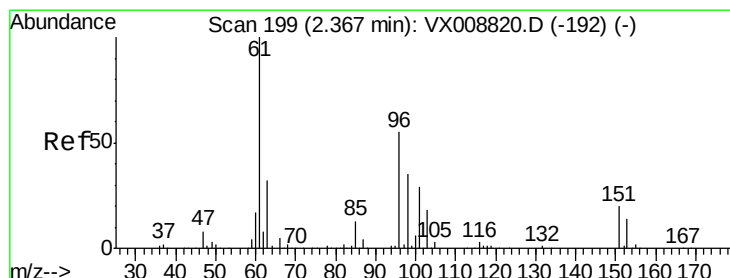
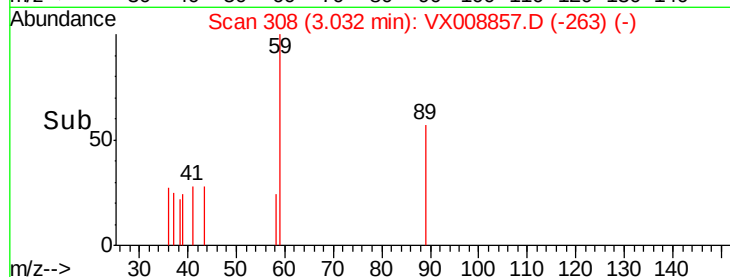
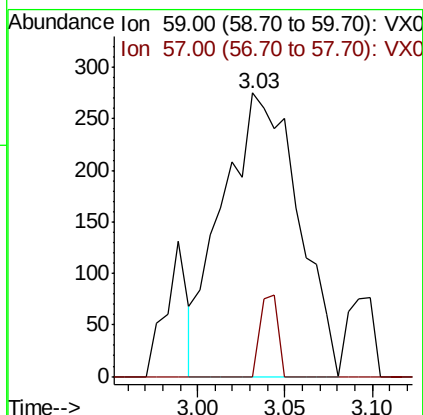
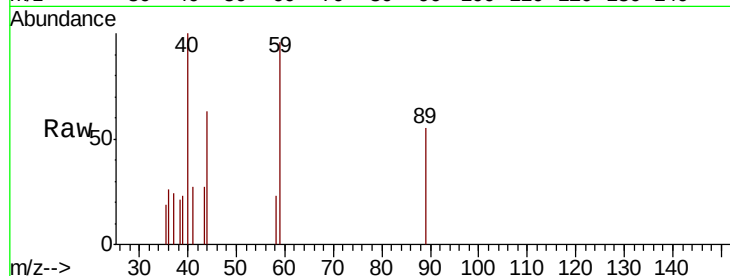




#11
Tert butyl alcohol
Concen: 1.217 ug/l
RT: 3.03 min Scan# 308
Delta R.T. -0.02 min
Lab File: VX008857.D
Acq: 11 Apr 2019 17:17

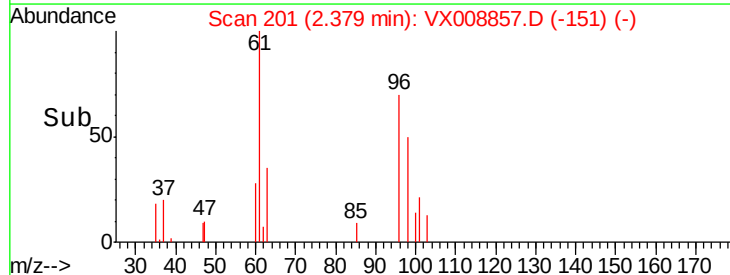
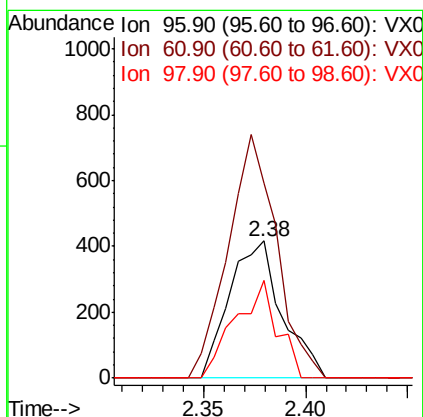
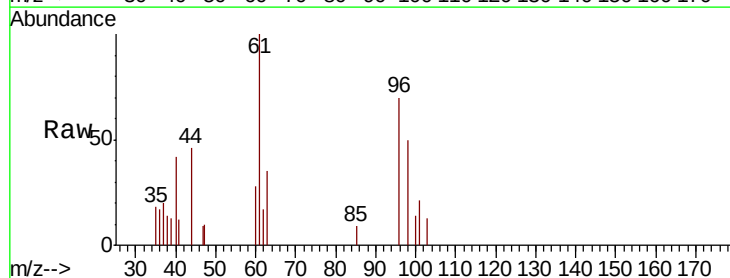
Instrument :
MSVOA_X
ClientSampleId :
KY062MW139-190409

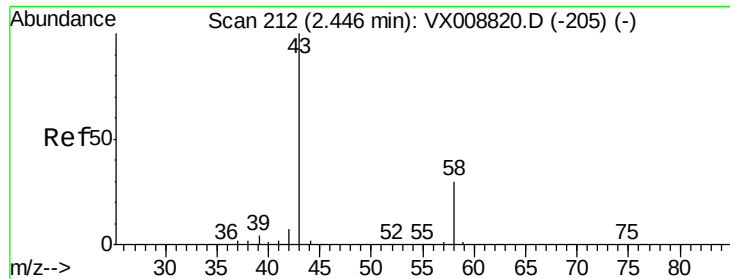
Tgt Ion: 59 Resp: 827
Ion Ratio Lower Upper
59 100
57 6.8 8.3 12.5#



#12
1,1-Dichloroethene
Concen: 0.324 ug/l
RT: 2.38 min Scan# 201
Delta R.T. 0.01 min
Lab File: VX008857.D
Acq: 11 Apr 2019 17:17

Tgt Ion: 96 Resp: 746
Ion Ratio Lower Upper
96 100
61 142.0 140.9 211.3
98 71.2 52.1 78.1





#16

Acetone

Concen: 0.430 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX008857.D

Acq: 11 Apr 2019 17:17

Instrument :

MSVOA_X

ClientSampleId :

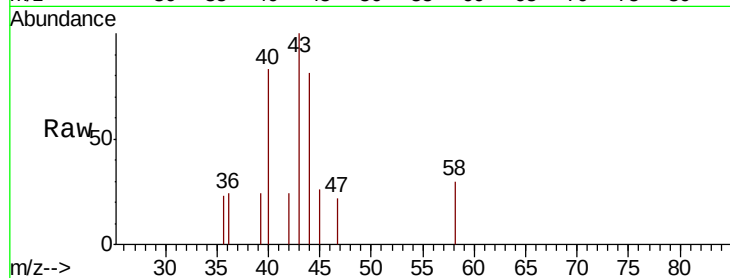
KY062MW139-190409

Tgt Ion: 43 Resp: 719

Ion Ratio Lower Upper

43 100

58 30.2 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

250

200

150

100

50

0

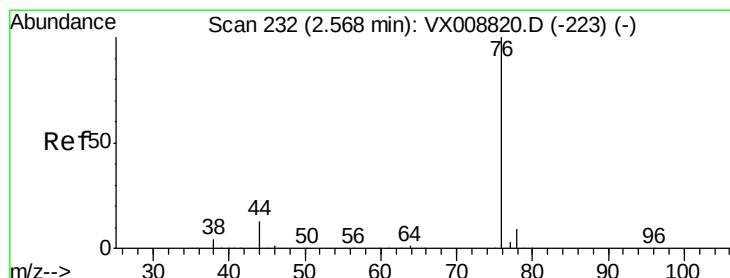
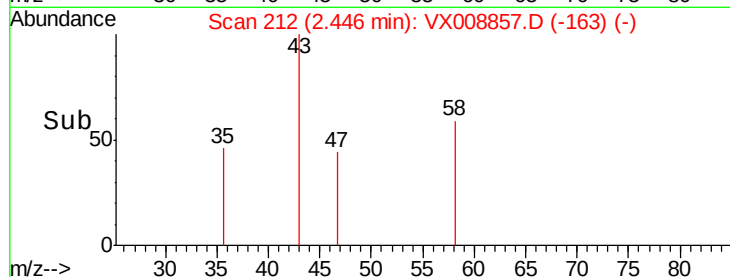
Time-->

2.35

2.40

2.45

2.50



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008857.D

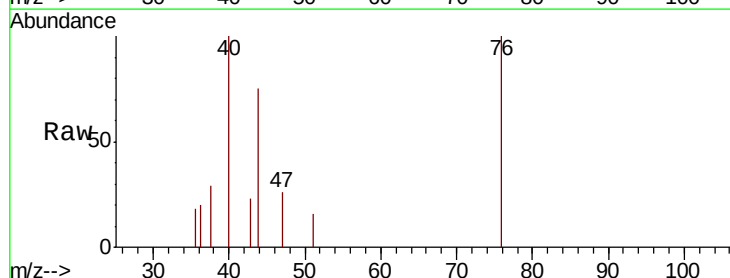
Acq: 11 Apr 2019 17:17

Tgt Ion: 76 Resp: 463

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

300

200

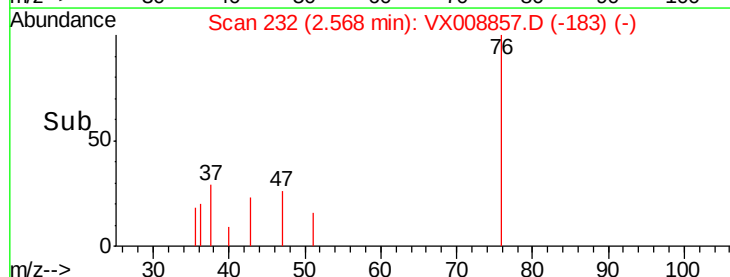
100

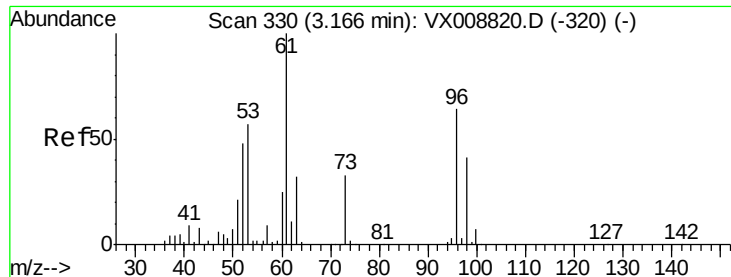
0

Time-->

2.55

2.60





#21

trans-1,2-Dichloroethene

Concen: 0.583 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX008857.D

Acq: 11 Apr 2019 17:17

Instrument :

MSVOA_X

ClientSampleId :

KY062MW139-190409

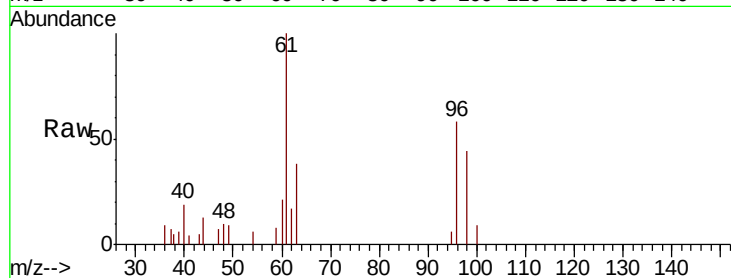
Tgt Ion: 96 Resp: 1450

Ion Ratio Lower Upper

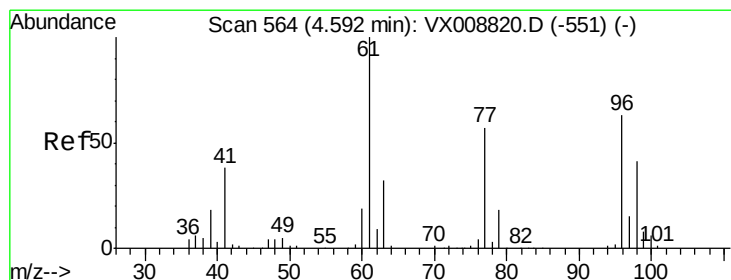
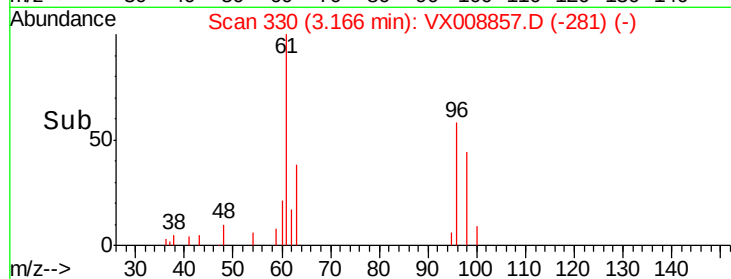
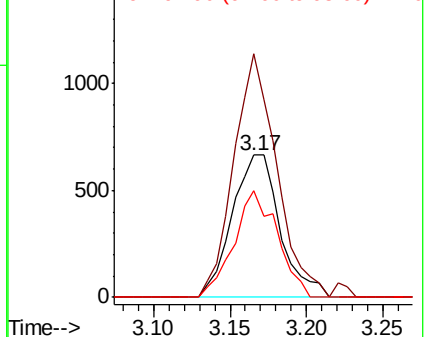
96 100

61 171.3 132.1 198.1

98 74.7 52.2 78.2



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 62.248 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX008857.D

Acq: 11 Apr 2019 17:17

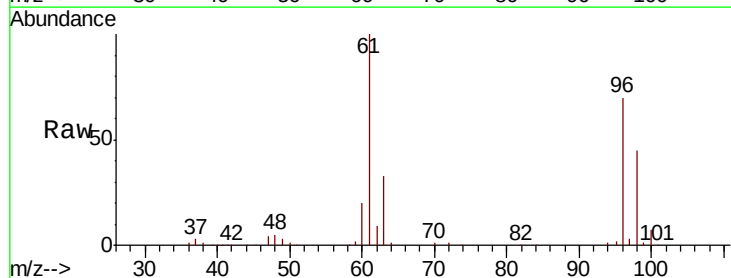
Tgt Ion: 96 Resp: 178034

Ion Ratio Lower Upper

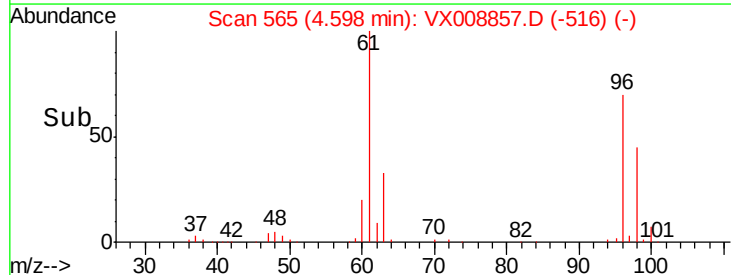
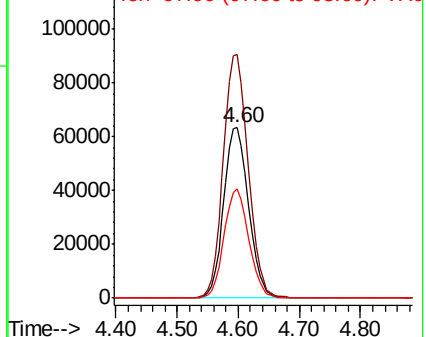
96 100

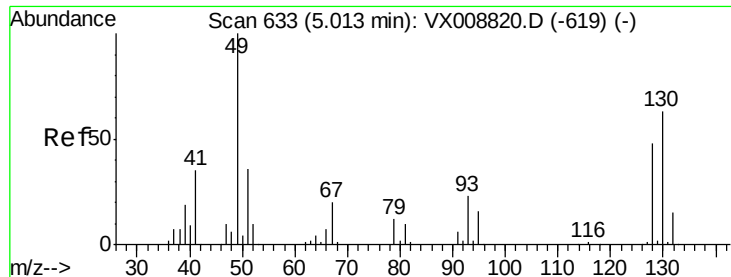
61 143.0 0.0 327.6

98 63.5 0.0 128.6



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 636

Delta R.T. 0.01 min

Lab File: VX008857.D

Acq: 11 Apr 2019 17:17

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KY062MW139-190409

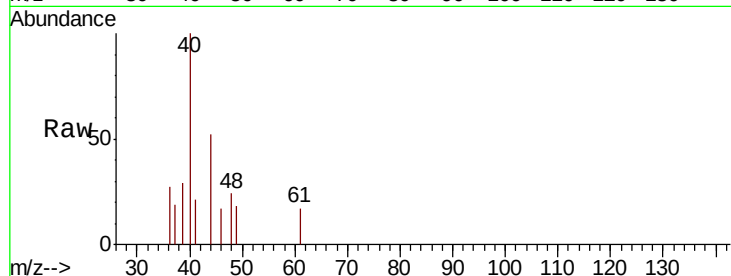
Tgt Ion: 49 Resp: 20

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

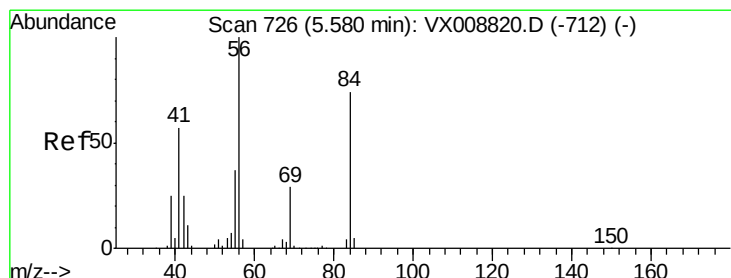
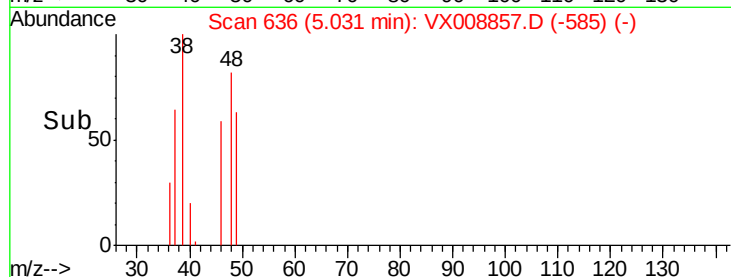
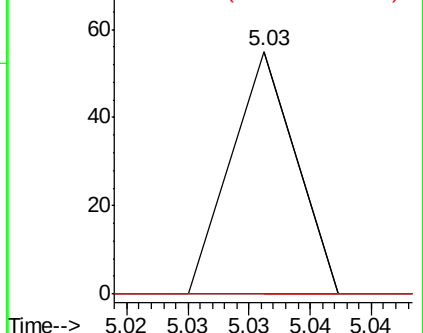
130 0.0 49.3 73.9#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#31

Cyclohexane

Concen: 0.899 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX008857.D

Acq: 11 Apr 2019 17:17

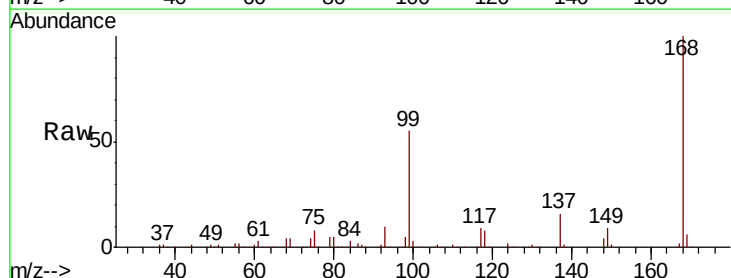
Tgt Ion: 56 Resp: 4509

Ion Ratio Lower Upper

56 100

69 167.1 22.6 33.8#

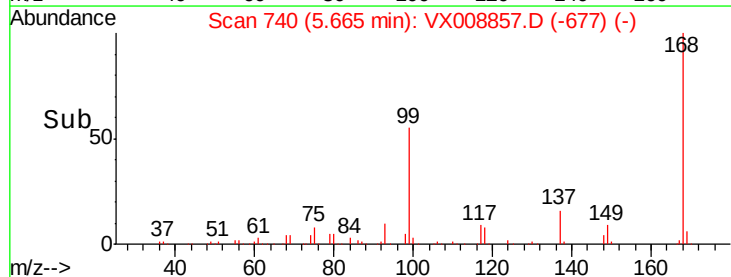
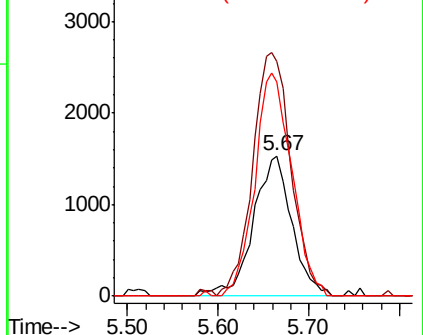
84 152.5 59.3 88.9#

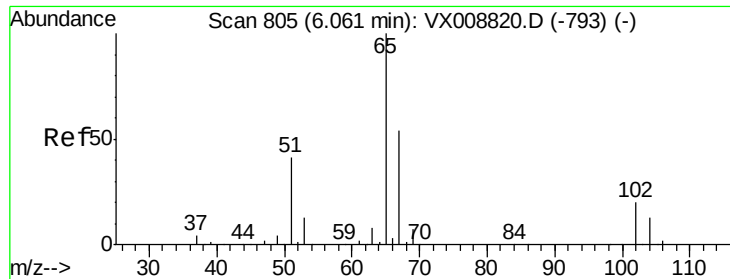


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

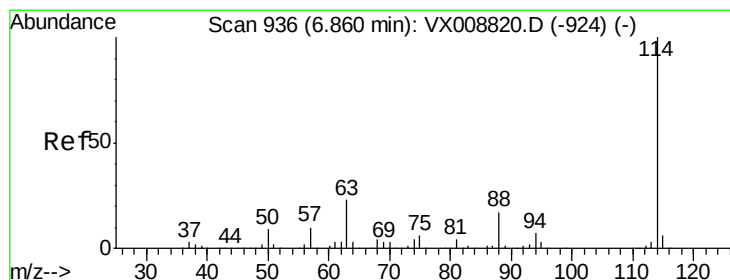
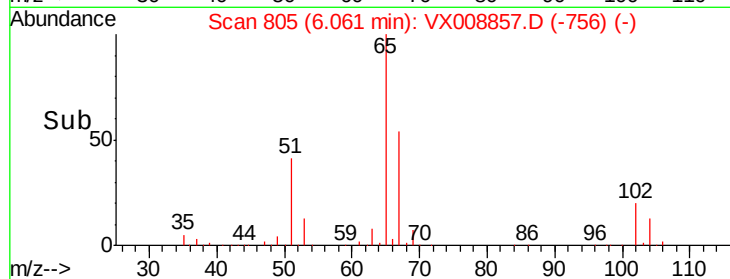
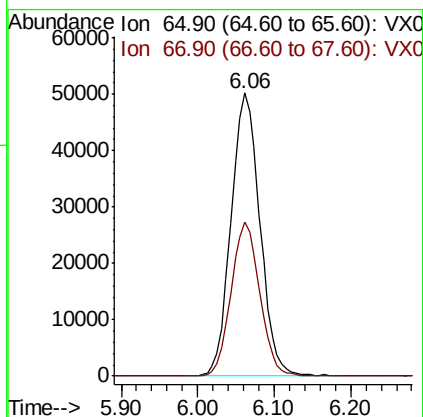
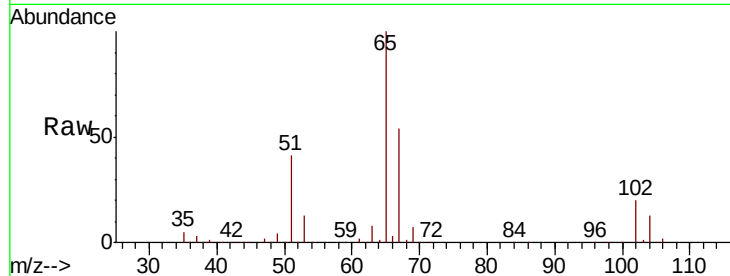




#33
 1,2-Dichloroethane-d4
 Concen: 45.216 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX008857.D
 Acq: 11 Apr 2019 17:17

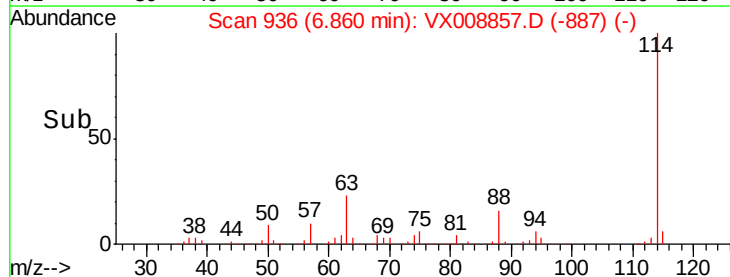
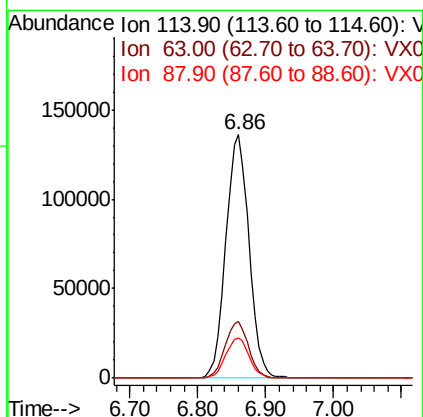
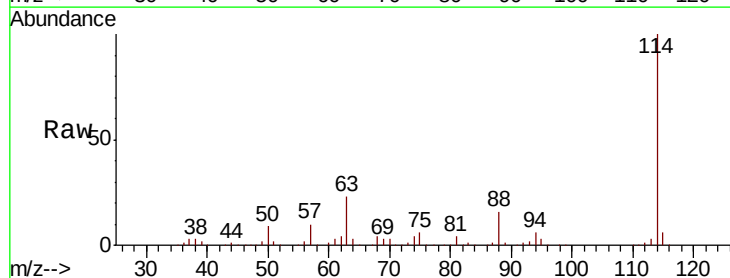
Instrument :
 MSVOA_X
 ClientSampleId :
 KY062MW139-190409

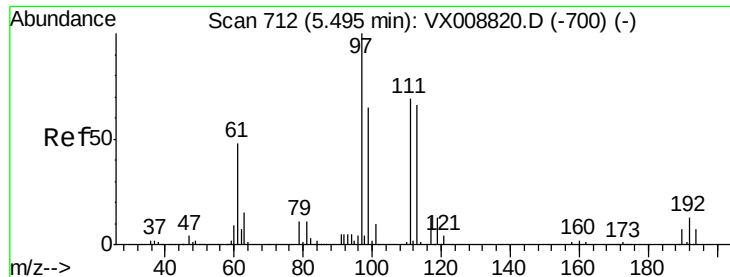
Tgt Ion: 65 Resp: 131197
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008857.D
 Acq: 11 Apr 2019 17:17

Tgt Ion: 114 Resp: 320891
 Ion Ratio Lower Upper
 114 100
 63 23.4 0.0 47.2
 88 16.5 0.0 34.0





#35

Dibromofluoromethane

Concen: 46.249 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX008857.D

Acq: 11 Apr 2019 17:17

Instrument :

MSVOA_X

ClientSampleId :

KY062MW139-190409

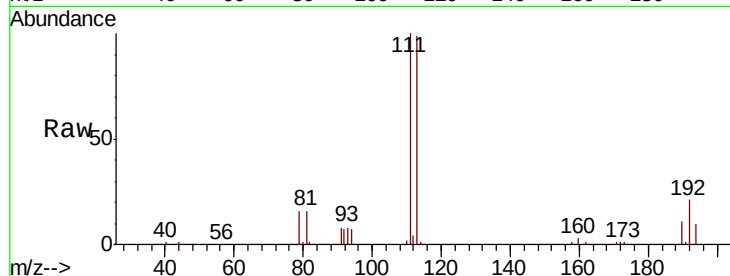
Tgt Ion:113 Resp: 94888

Ion Ratio Lower Upper

113 100

111 102.7 83.4 125.2

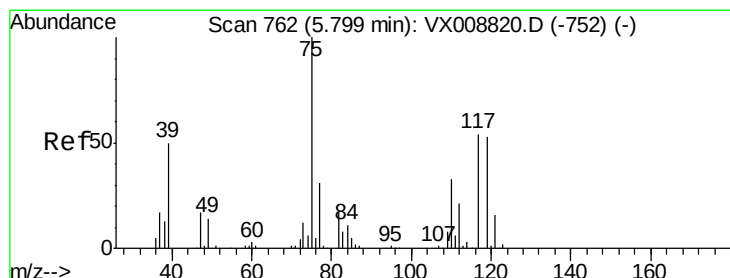
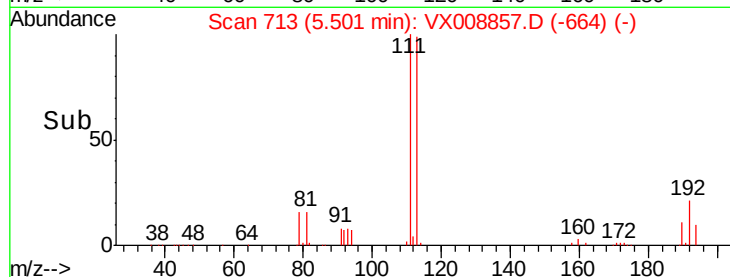
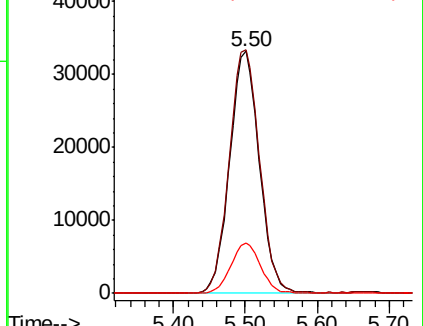
192 20.9 16.1 24.1



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: 4.601 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008857.D

Acq: 11 Apr 2019 17:17

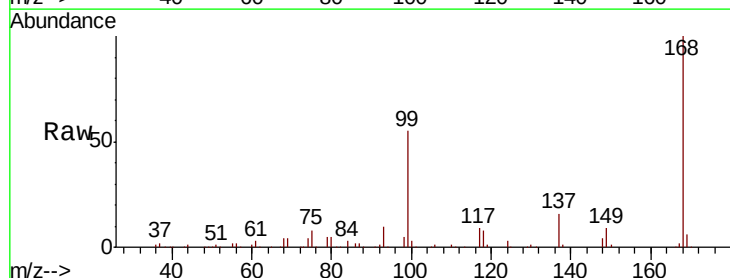
Tgt Ion: 75 Resp: 16140

Ion Ratio Lower Upper

75 100

110 8.5 16.4 49.2#

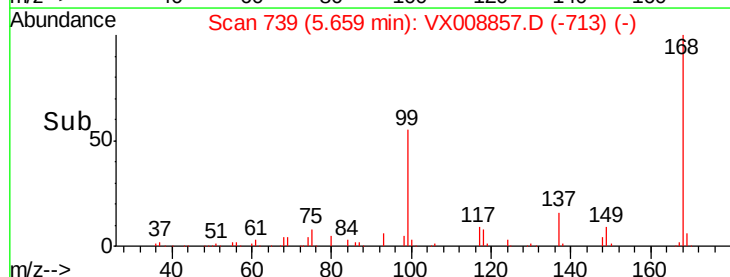
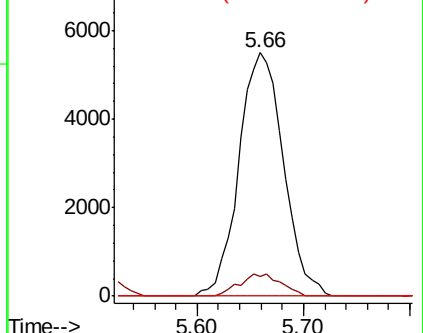
77 0.0 24.7 37.1#

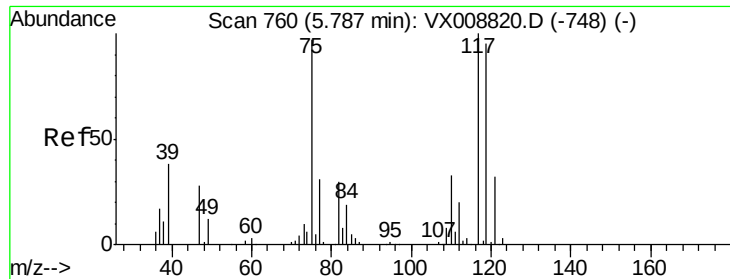


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.505 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008857.D

Acq: 11 Apr 2019 17:17

Instrument :

MSVOA_X

ClientSampleId :

KY062MW139-190409

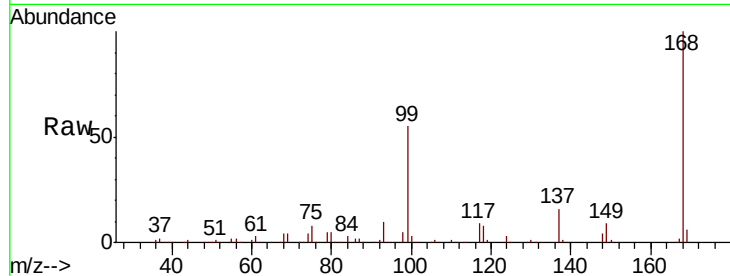
Tgt Ion:117 Resp: 18884

Ion Ratio Lower Upper

117 100

119 6.0 75.0 112.6#

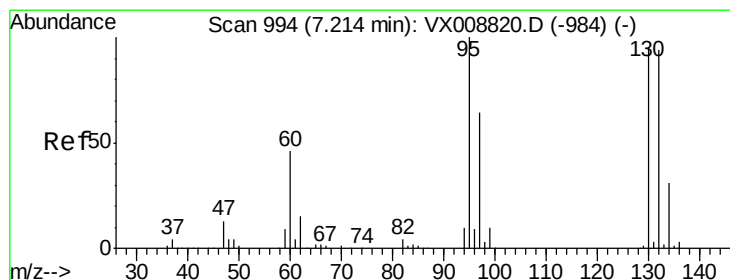
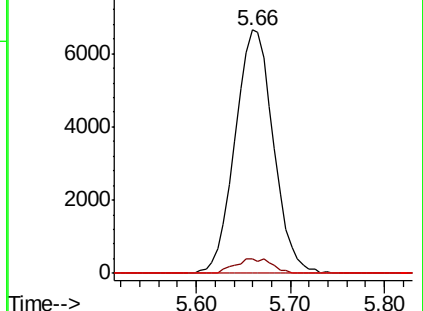
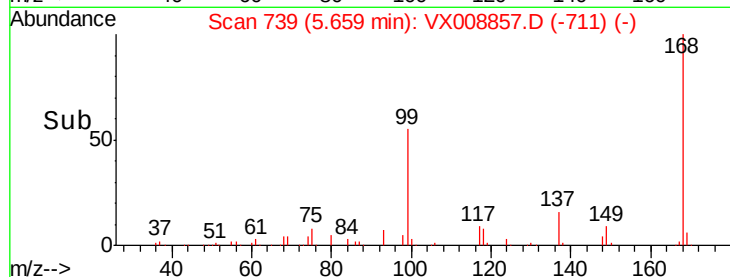
121 0.0 24.3 36.5#



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



#44

Trichloroethene

Concen: 12.554 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX008857.D

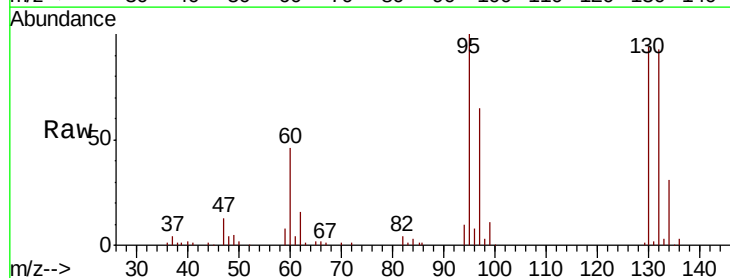
Acq: 11 Apr 2019 17:17

Tgt Ion:130 Resp: 30553

Ion Ratio Lower Upper

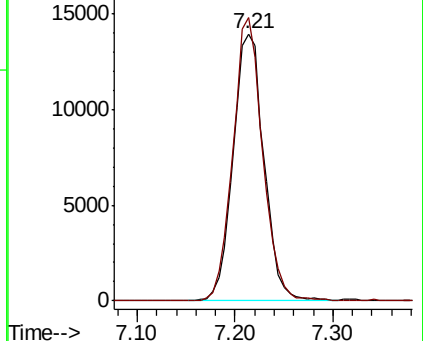
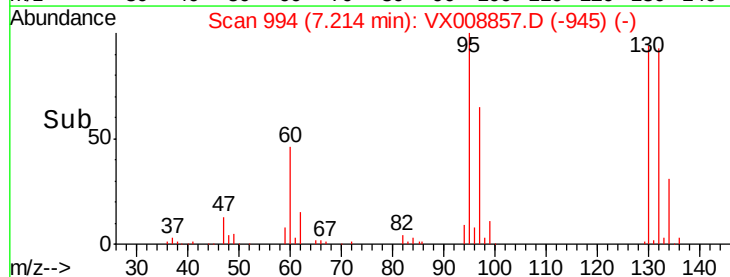
130 100

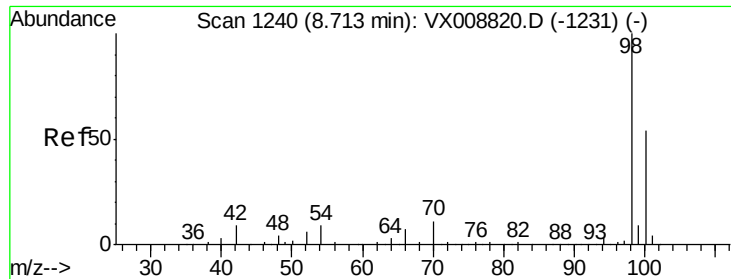
95 106.1 0.0 209.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 49.025 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008857.D

Acq: 11 Apr 2019 17:17

Instrument :

MSVOA_X

ClientSampleId :

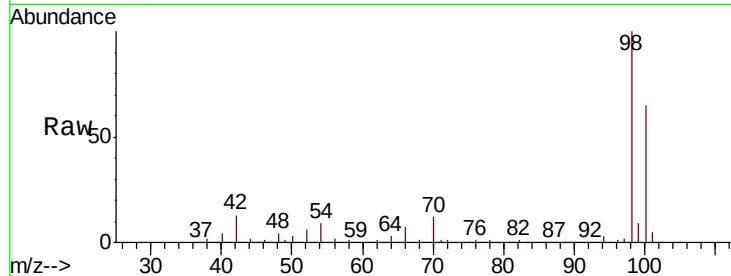
KY062MW139-190409

Tgt Ion: 98 Resp: 400494

Ion Ratio Lower Upper

98 100

100 64.5 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

250000

200000

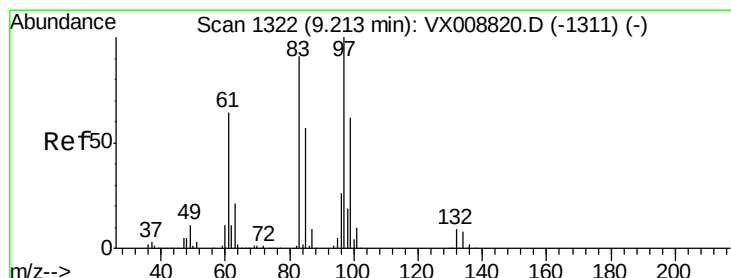
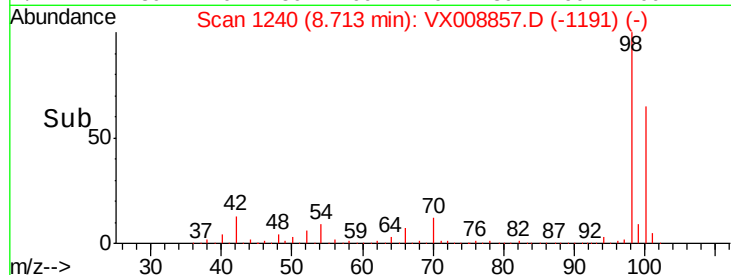
150000

100000

50000

0

Time--> 8.60 8.65 8.70 8.75 8.80



#55

1,1,2-Trichloroethane

Concen: 0.861 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.12 min

Lab File: VX008857.D

Acq: 11 Apr 2019 17:17

Tgt Ion: 97 Resp: 2130

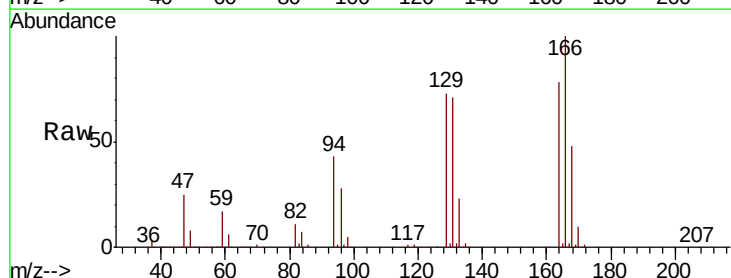
Ion Ratio Lower Upper

97 100

83 289.9 73.2 109.8#

85 37.9 46.6 69.8#

99 19.4 50.1 75.1#



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

9.34

6000

5000

4000

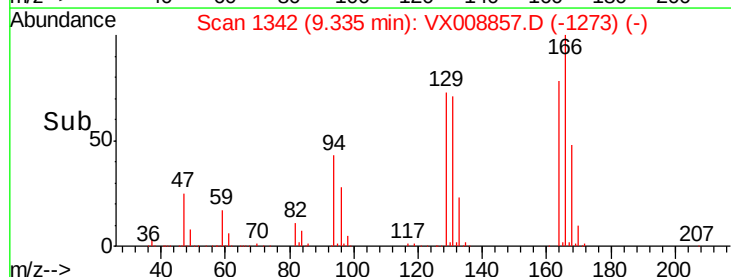
3000

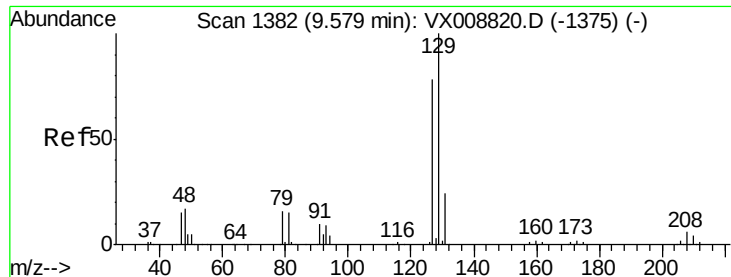
2000

1000

0

Time--> 9.30 9.35

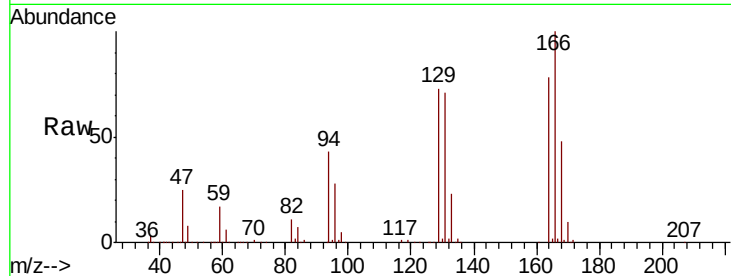




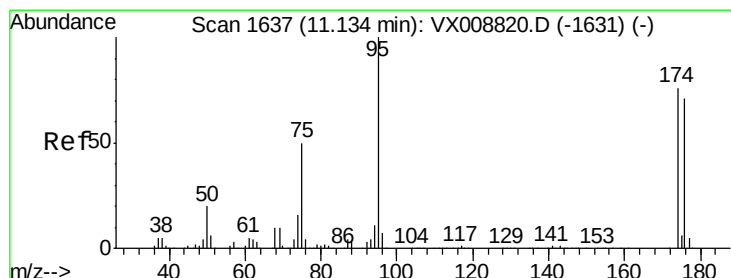
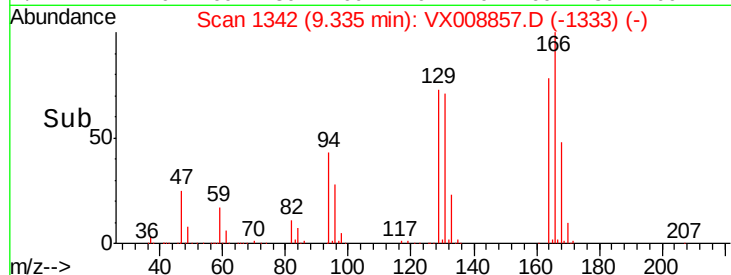
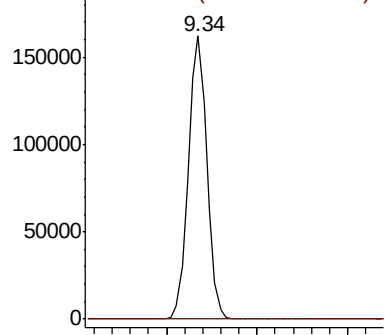
#60
 Dibromochloromethane
 Concen: 99.400 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. -0.24 min
 Lab File: VX008857.D
 Acq: 11 Apr 2019 17:17

Instrument :
 MSVOA_X
 ClientSampleId :
 KY062MW139-190409

Tgt Ion: 129 Resp: 231632
 Ion Ratio Lower Upper
 129 100
 127 0.1 38.5 115.3#

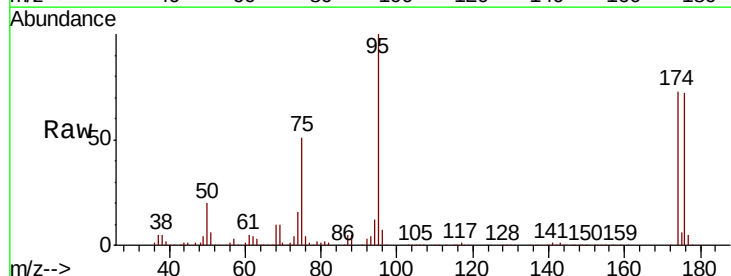


Abundance Ion 128.80 (128.50 to 129.50): V
 Ion 126.80 (126.50 to 127.50): V

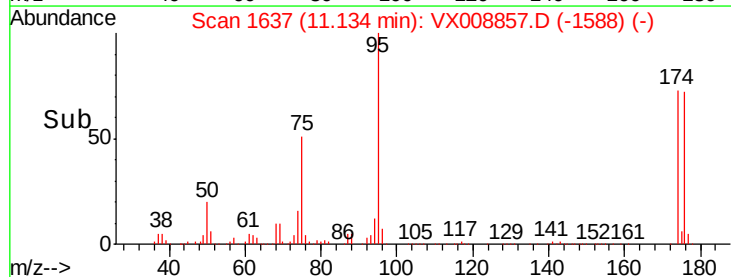
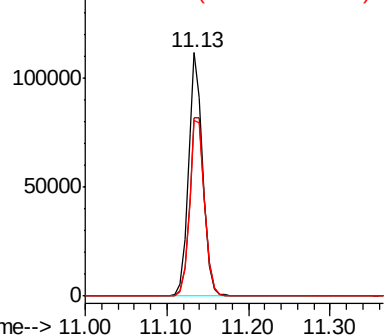


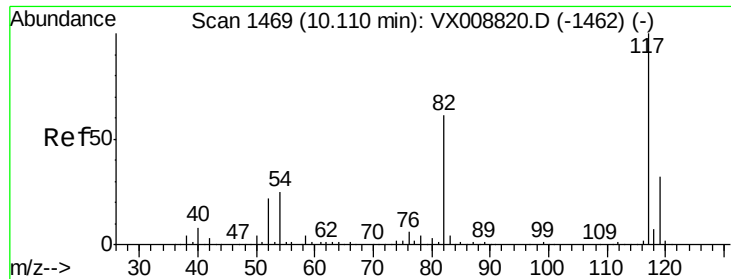
#62
 4-Bromofluorobenzene
 Concen: 47.261 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.00 min
 Lab File: VX008857.D
 Acq: 11 Apr 2019 17:17

Tgt Ion: 95 Resp: 136911
 Ion Ratio Lower Upper
 95 100
 174 77.5 0.0 151.8
 176 75.7 0.0 145.8



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

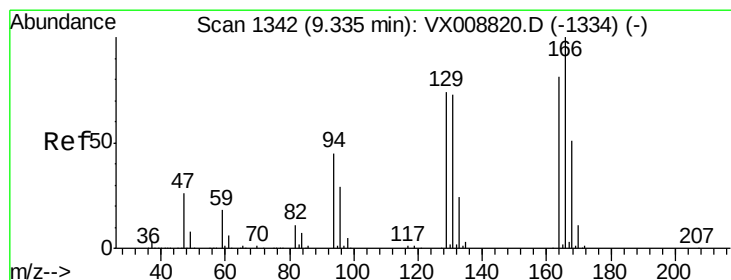
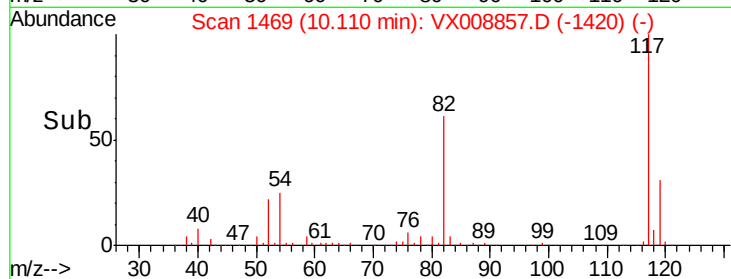
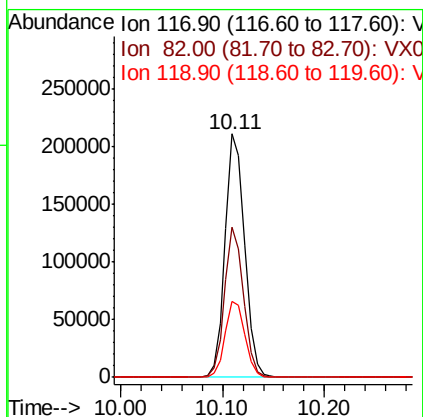
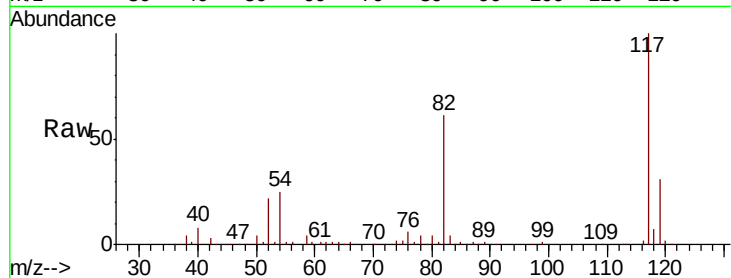




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008857.D
Acq: 11 Apr 2019 17:17

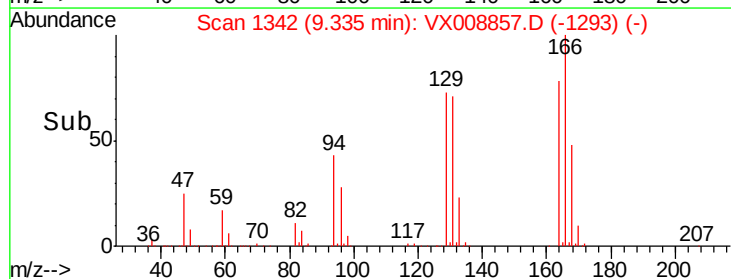
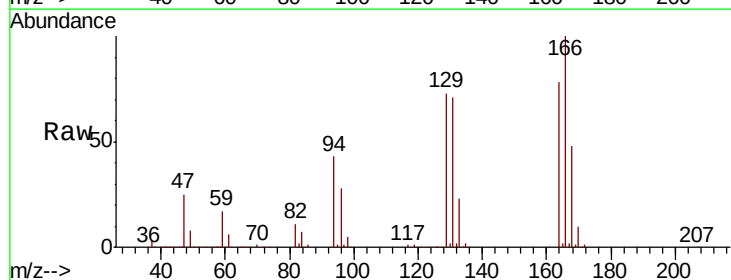
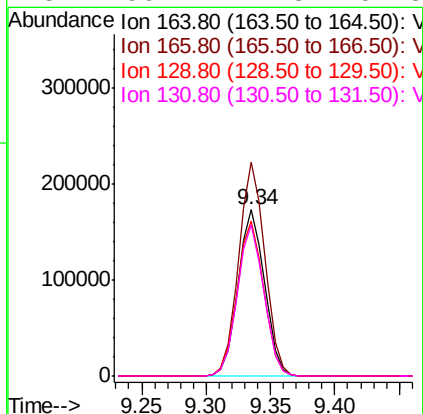
Instrument :
MSVOA_X
ClientSampleId :
KY062MW139-190409

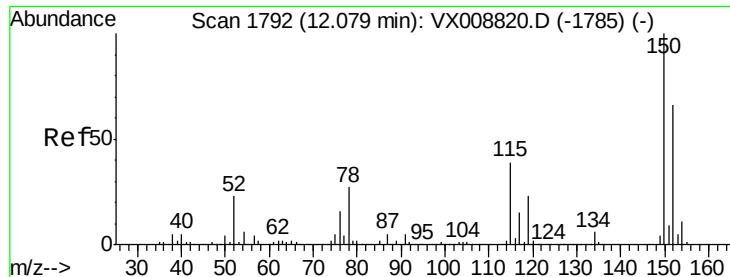
Tgt Ion:117 Resp: 280809
Ion Ratio Lower Upper
117 100
82 61.5 49.6 74.4
119 31.3 25.0 37.4



#64
Tetrachloroethene
Concen: 118.068 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX008857.D
Acq: 11 Apr 2019 17:17

Tgt Ion:164 Resp: 245640
Ion Ratio Lower Upper
164 100
166 128.5 101.0 151.6
129 93.6 75.8 113.8
131 90.7 71.8 107.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008857.D

Acq: 11 Apr 2019 17:17

Instrument :

MSVOA_X

ClientSampleId :

KY062MW139-190409

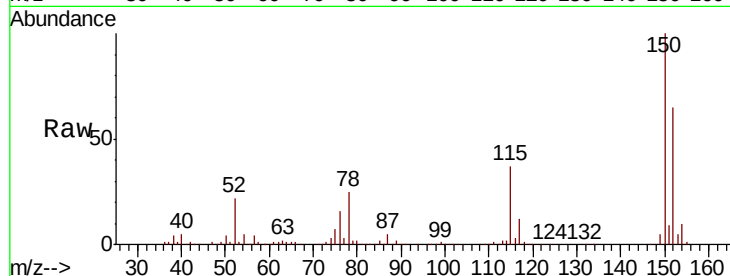
Tgt Ion:152 Resp: 121850

Ion Ratio Lower Upper

152 100

115 59.6 43.5 130.5

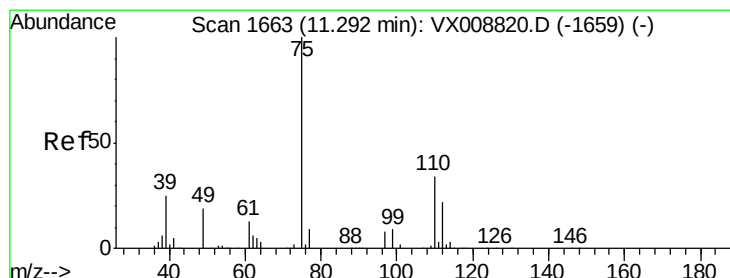
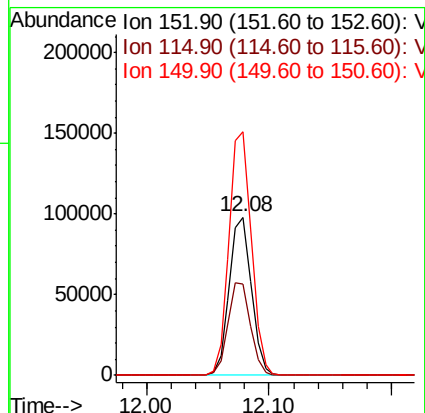
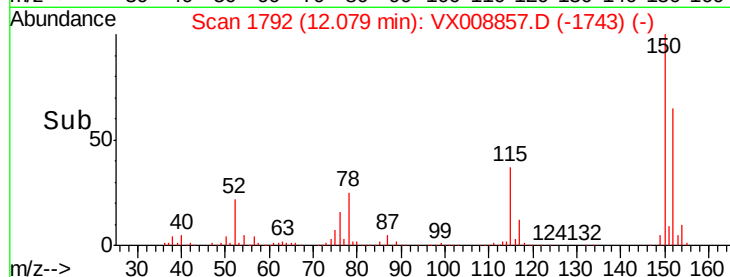
150 156.3 0.0 348.8



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: 20.675 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008857.D

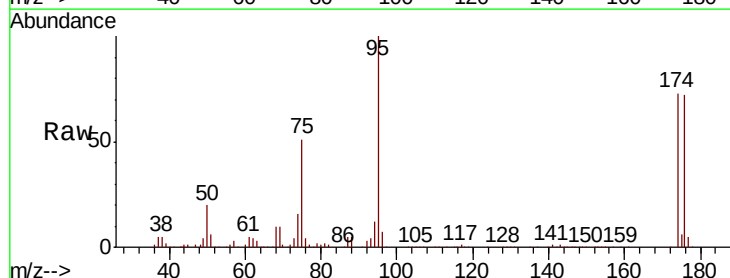
Acq: 11 Apr 2019 17:17

Tgt Ion: 75 Resp: 69207

Ion Ratio Lower Upper

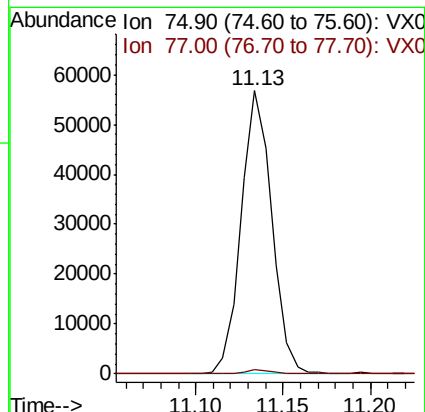
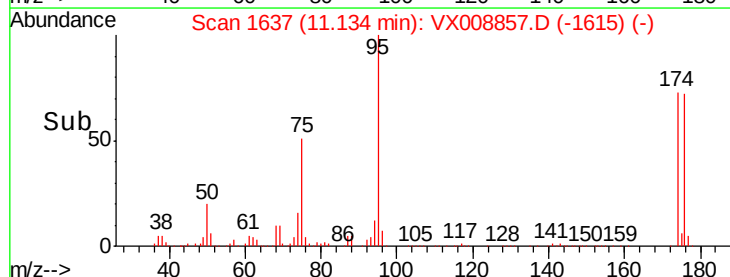
75 100

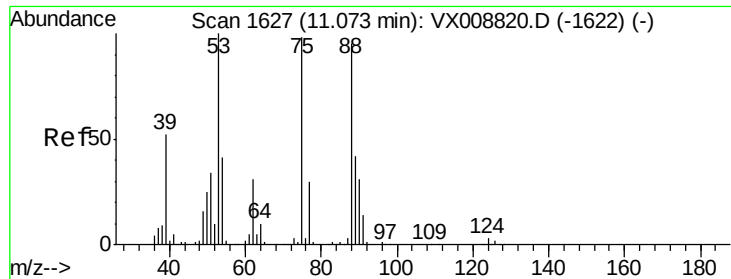
77 1.4 22.3 66.8#



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: 56.992 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008857.D

Acq: 11 Apr 2019 17:17

Instrument :

MSVOA_X

ClientSampleId :

KY062MW139-190409

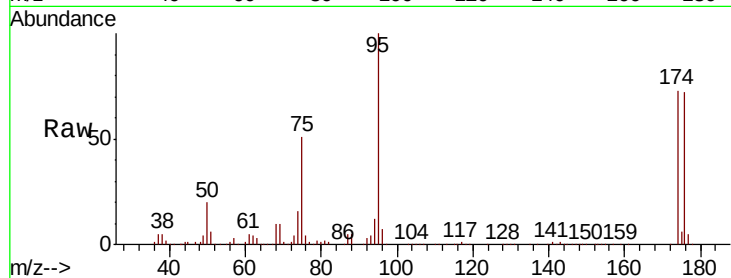
Tgt Ion: 75 Resp: 69207

Ion Ratio Lower Upper

75 100

53 0.1 81.3 121.9#

89 0.0 35.6 53.4#



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

