

Data File : VX008808.D
Acq On : 10 Apr 2019 16:19
Operator : JC/SP
Sample : K2349-17
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
M-19-190409

Quant Time: Apr 11 05:44:34 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	5.67	168	207029	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	335999	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	288596	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	119322	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	137116	45.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.82%	
35) Dibromofluoromethane	5.49	113	100832	46.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.88%	
50) Toluene-d8	8.71	98	420299	49.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.28%	
62) 4-Bromofluorobenzene	11.13	95	137961	45.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.96%	

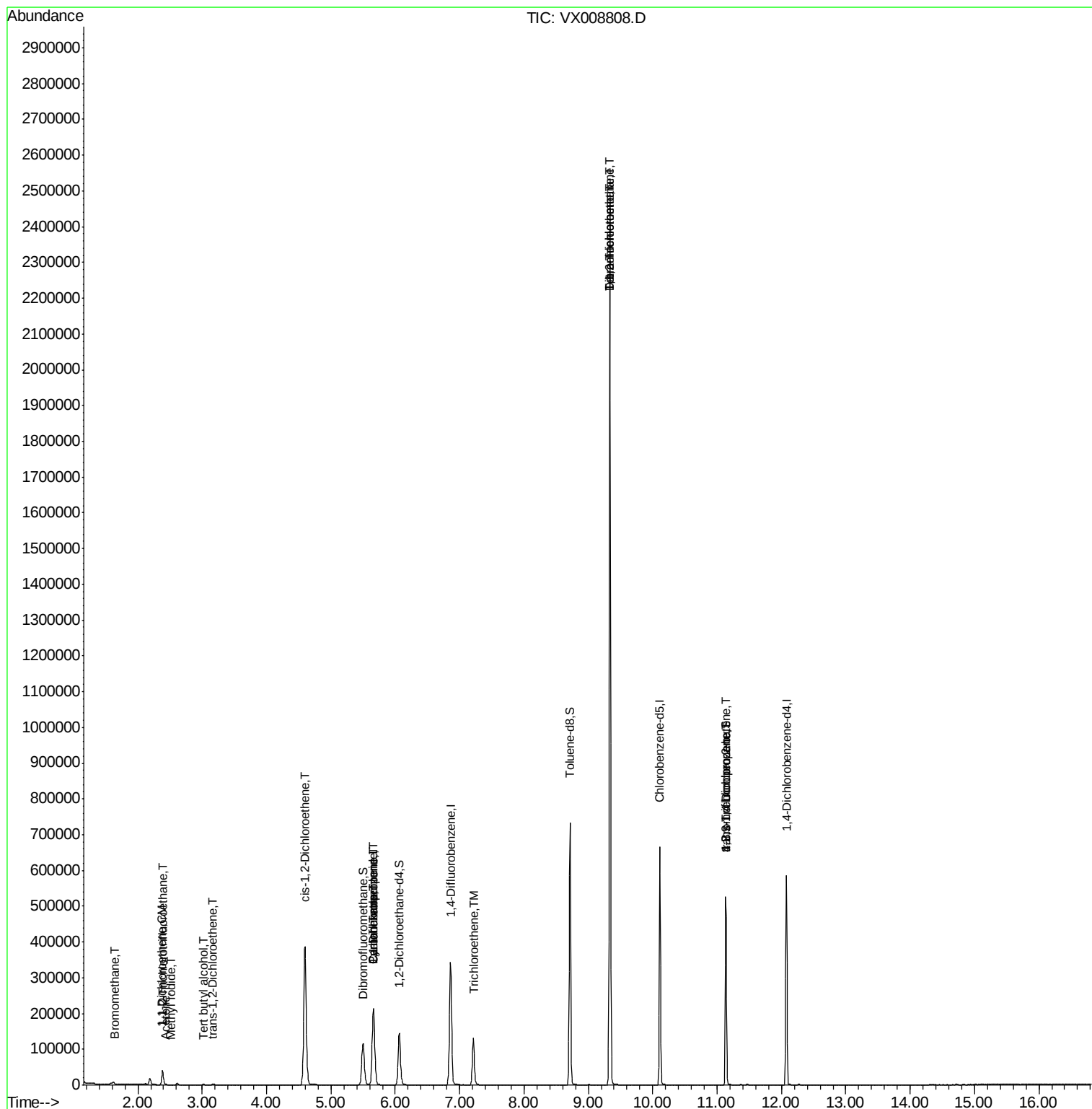
Target Compounds			Qvalue			
3) Chloromethane	1.33	50	323	Below Cal	#	81
5) Bromomethane	1.64	94	230	2.025	ug/l	84
6) Chloroethane	1.67	64	120	Below Cal	#	43
9) 1,1,2-Trichlorotrifluoroet	2.39	101	15717	6.855	ug/l	98
10) Methyl Iodide	2.52	142	22	4.013	ug/l #	42
11) Tert butyl alcohol	3.02	59	832	1.177	ug/l #	72
12) 1,1-Dichloroethene	2.37	96	578	0.241	ug/l #	76
16) Acetone	2.43	43	715	0.411	ug/l #	82
17) Carbon Disulfide	2.57	76	528	Below Cal	#	71
21) trans-1,2-Dichloroethene	3.17	96	1033	0.399	ug/l #	77
27) cis-1,2-Dichloroethene	4.60	96	242630	81.515	ug/l	89
28) Bromochloromethane	5.02	49	23	Below Cal	#	22
31) Cyclohexane	5.66	56	4673	0.896	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	16212	4.414	ug/l #	51
38) Carbon Tetrachloride	5.66	117	19459	6.401	ug/l #	17
44) Trichloroethene	7.21	130	49642	19.480	ug/l	97
55) 1,1,2-Trichloroethane	9.33	97	3746	1.447	ug/l #	1
60) Dibromochloromethane	9.34	129	431762	176.951	ug/l #	11
64) Tetrachloroethene	9.34	164	455871	213.204	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	69668	21.254	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	69668	58.587	ug/l #	9

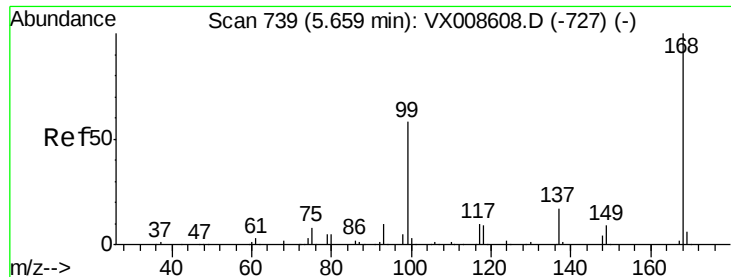
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX008808.D

Acq: 10 Apr 2019 16:19

Instrument :

MSVOA_X

ClientSampleId :

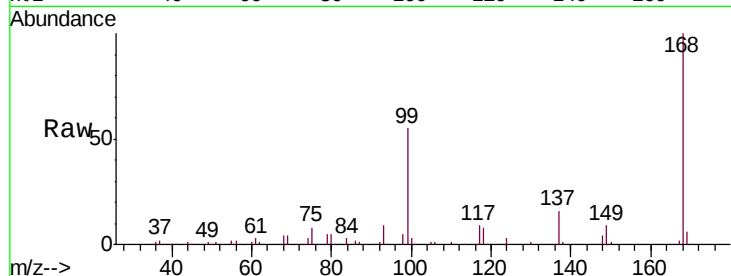
M-19-190409

Tgt Ion:168 Resp: 207029

Ion Ratio Lower Upper

168 100

99 54.5 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

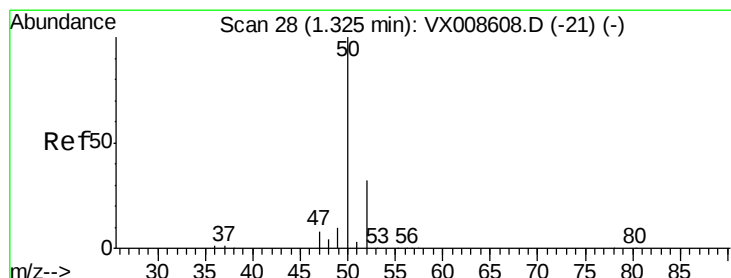
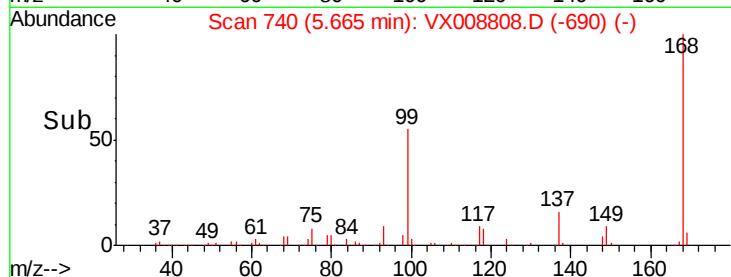
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX008808.D

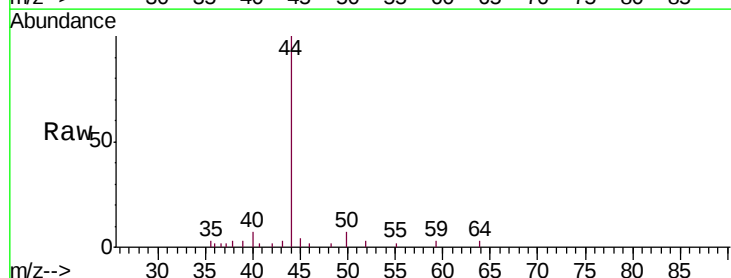
Acq: 10 Apr 2019 16:19

Tgt Ion: 50 Resp: 323

Ion Ratio Lower Upper

50 100

52 42.9 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

200

150

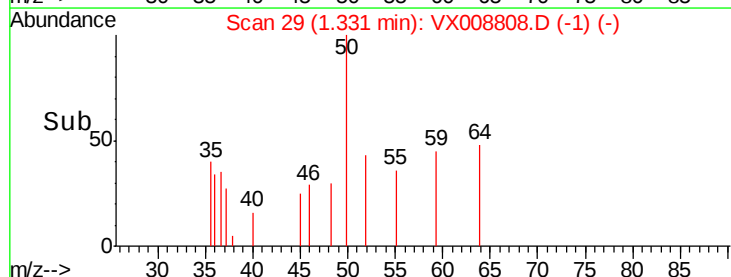
100

50

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: 2.025 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008808.D

Acq: 10 Apr 2019 16:19

Instrument :

MSVOA_X

ClientSampleId :

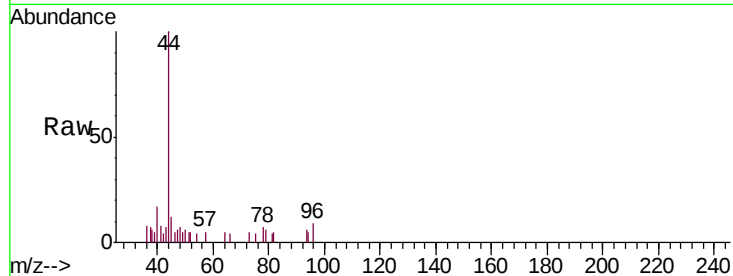
M-19-190409

Tgt Ion: 94 Resp: 230

Ion Ratio Lower Upper

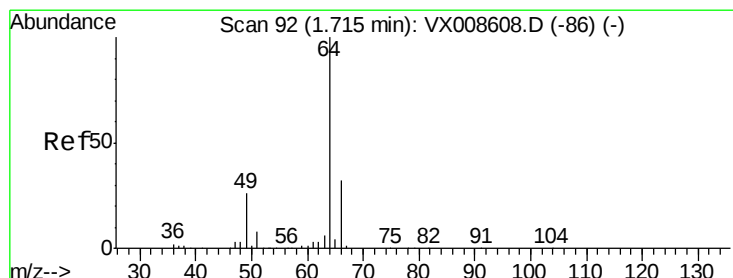
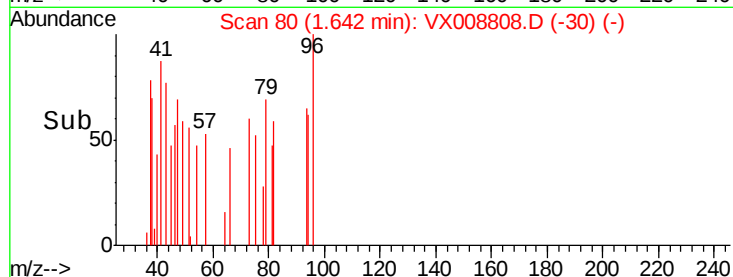
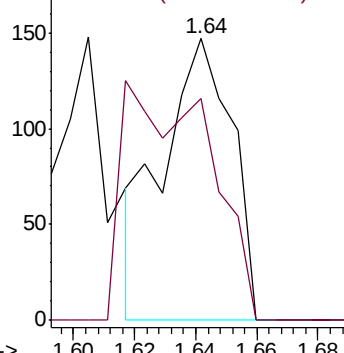
94 100

96 78.9 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.67 min Scan# 84

Delta R.T. -0.05 min

Lab File: VX008808.D

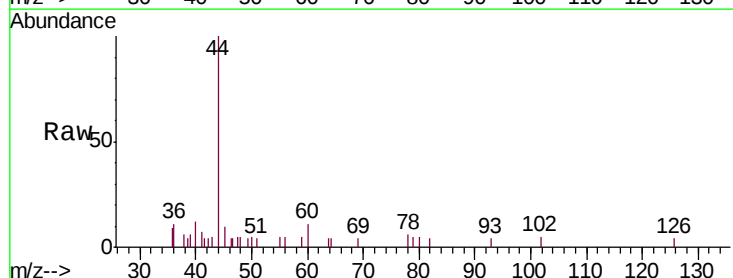
Acq: 10 Apr 2019 16:19

Tgt Ion: 64 Resp: 120

Ion Ratio Lower Upper

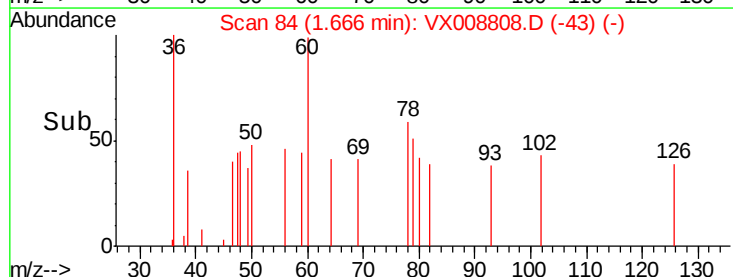
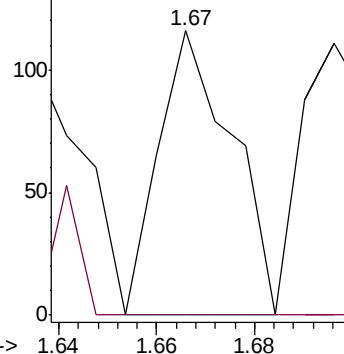
64 100

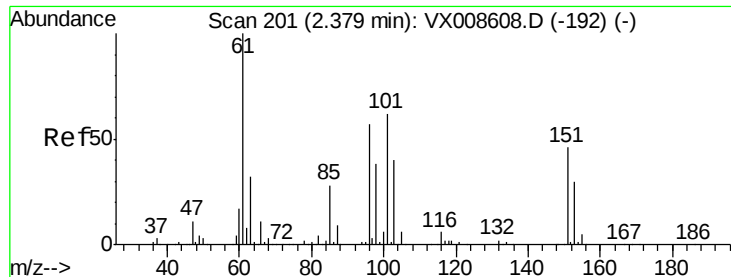
66 0.0 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 6.855 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.01 min

Lab File: VX008808.D

Acq: 10 Apr 2019 16:19

Instrument :

MSVOA_X

ClientSampled :

M-19-190409

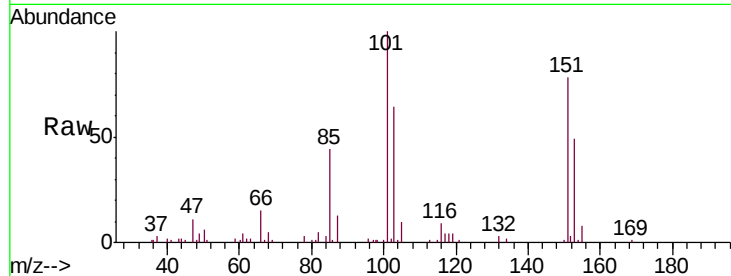
Tgt Ion:101 Resp: 15717

Ion Ratio Lower Upper

101 100

85 45.0 36.0 54.0

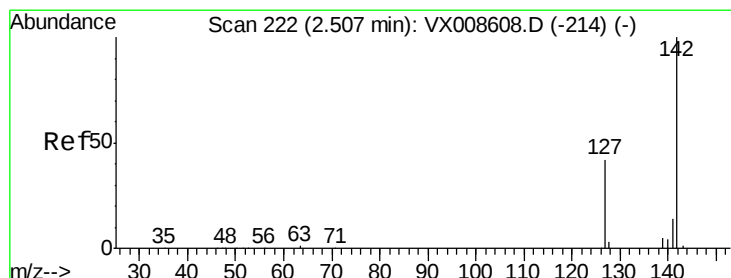
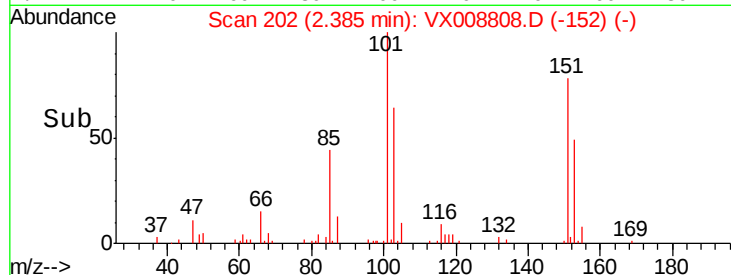
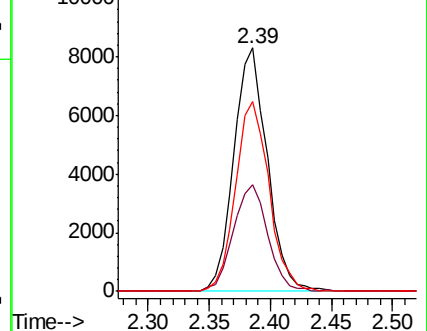
151 78.1 59.9 89.9



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 4.013 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX008808.D

Acq: 10 Apr 2019 16:19

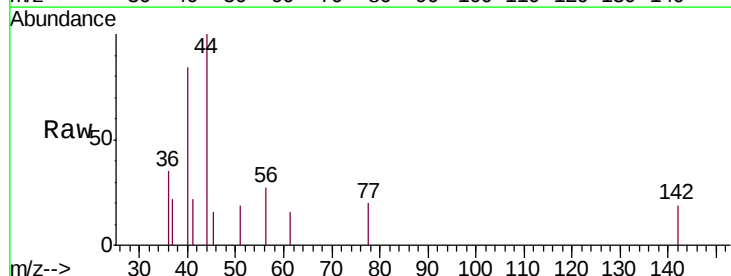
Tgt Ion:142 Resp: 22

Ion Ratio Lower Upper

142 100

127 0.0 33.0 49.6#

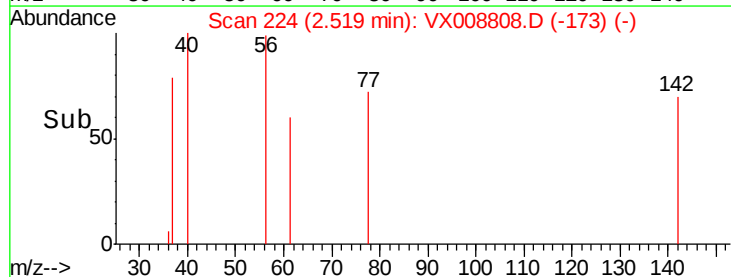
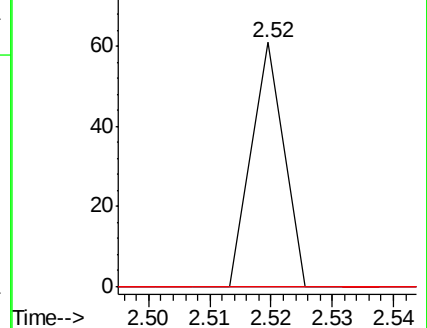
141 0.0 11.4 17.2#

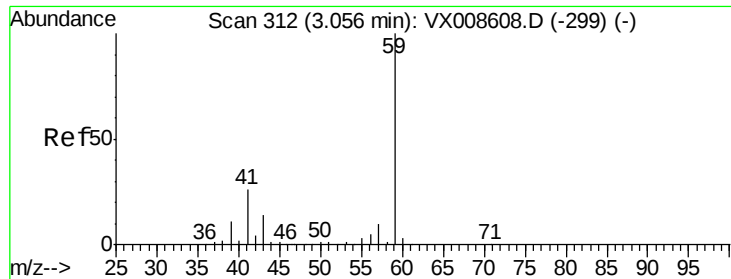


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

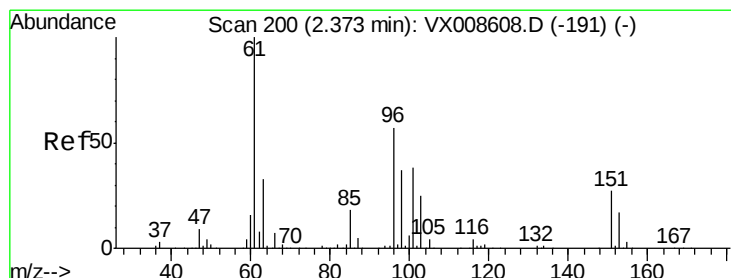
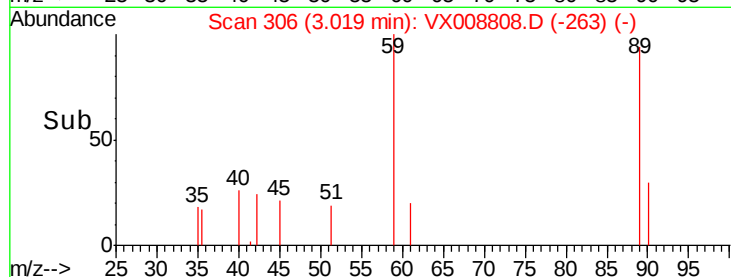
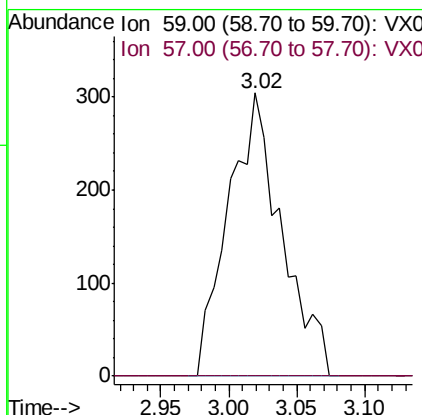
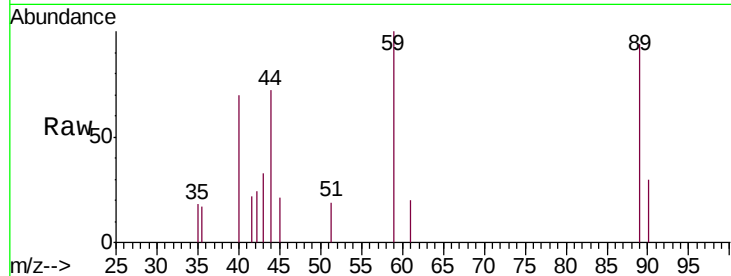




#11
Tert butyl alcohol
Concen: 1.177 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.04 min
Lab File: VX008808.D
Acq: 10 Apr 2019 16:19

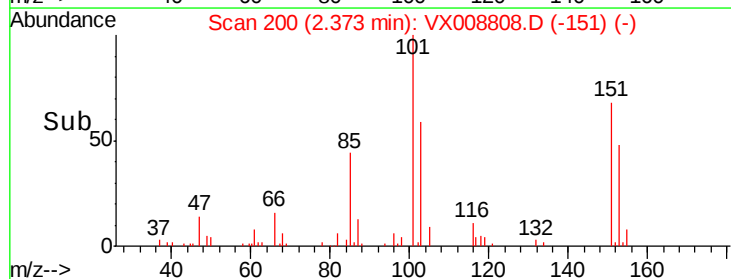
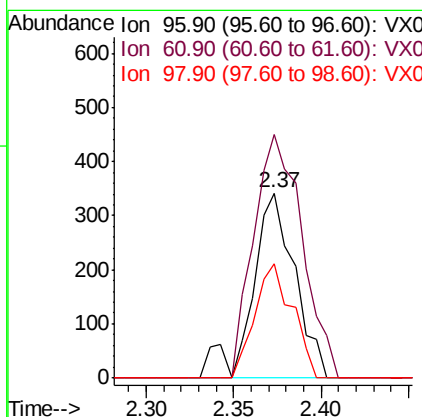
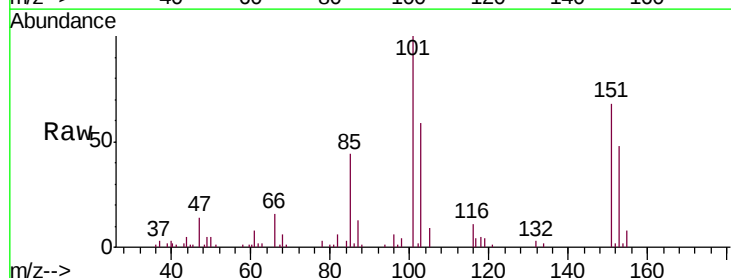
Instrument :
MSVOA_X
ClientSampled :
M-19-190409

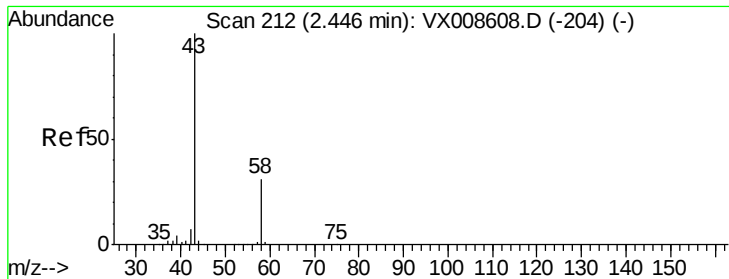
Tgt Ion: 59 Resp: 832
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#12
1,1-Dichloroethene
Concen: 0.241 ug/l
RT: 2.37 min Scan# 200
Delta R.T. -0.00 min
Lab File: VX008808.D
Acq: 10 Apr 2019 16:19

Tgt Ion: 96 Resp: 578
Ion Ratio Lower Upper
96 100
61 131.6 140.9 211.3#
98 62.0 52.1 78.1





#16

Acetone

Concen: 0.411 ug/l

RT: 2.43 min Scan# 210

Delta R.T. -0.01 min

Lab File: VX008808.D

Acq: 10 Apr 2019 16:19

Instrument :

MSVOA_X

ClientSampleId :

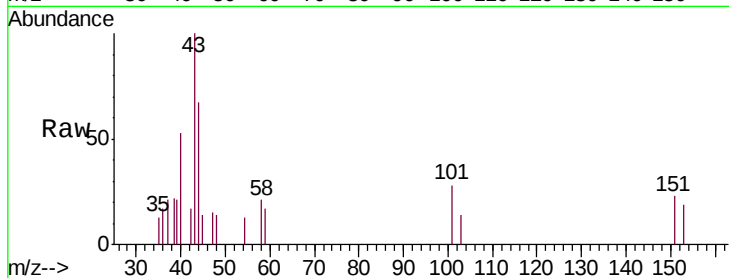
M-19-190409

Tgt Ion: 43 Resp: 715

Ion Ratio Lower Upper

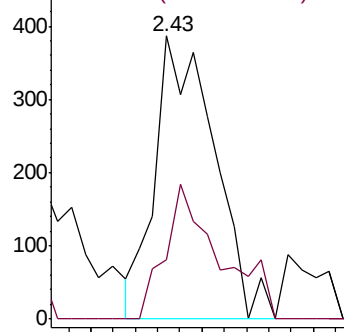
43 100

58 20.9 24.8 37.2#

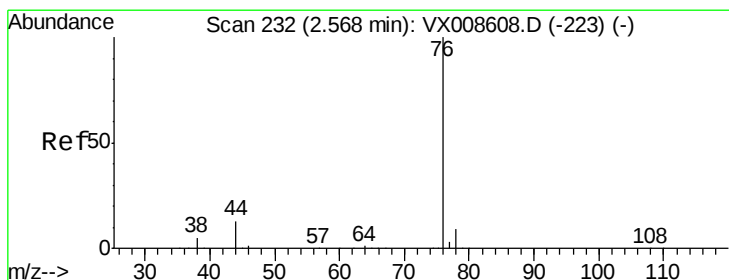
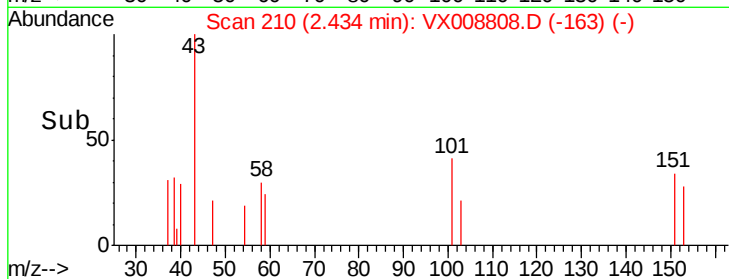


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008808.D

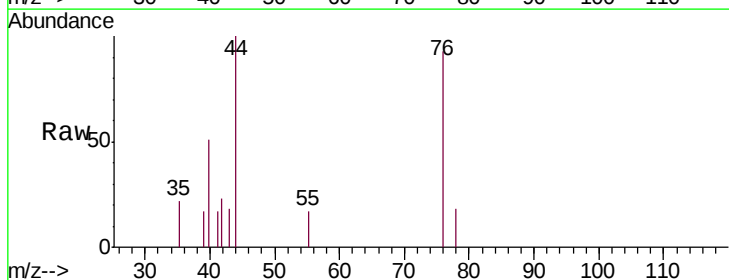
Acq: 10 Apr 2019 16:19

Tgt Ion: 76 Resp: 528

Ion Ratio Lower Upper

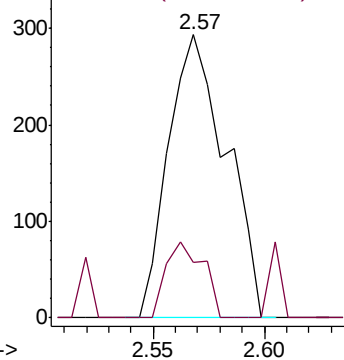
76 100

78 19.5 7.1 10.7#

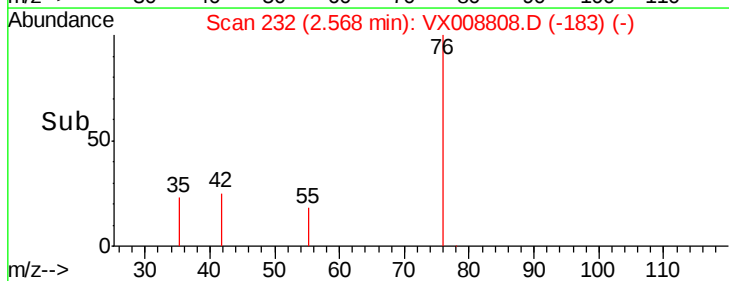


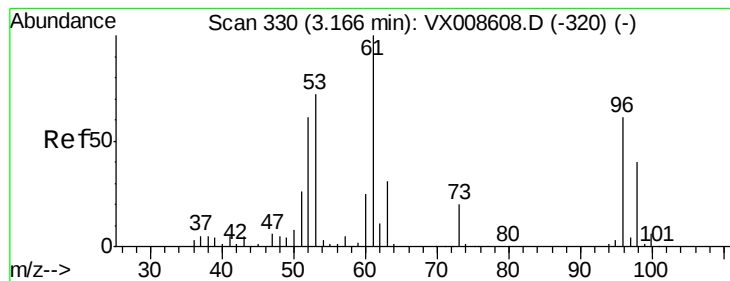
Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



Time-->





#21

trans-1,2-Dichloroethene

Concen: 0.399 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX008808.D

Acq: 10 Apr 2019 16:19

Instrument :

MSVOA_X

ClientSampleId :

M-19-190409

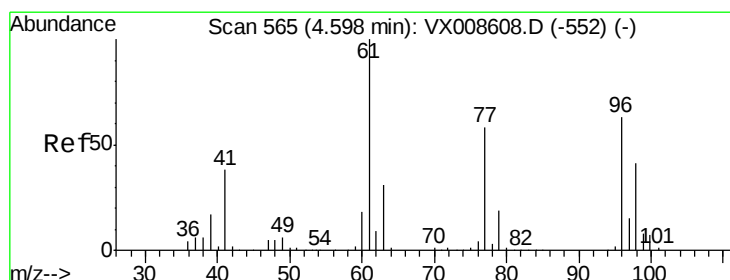
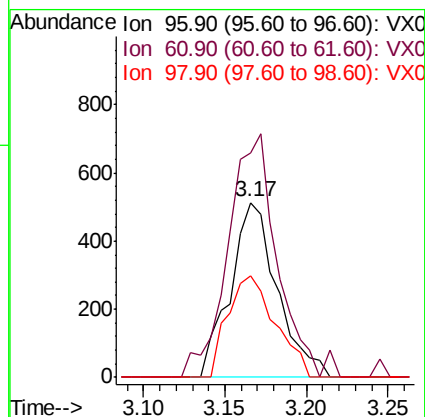
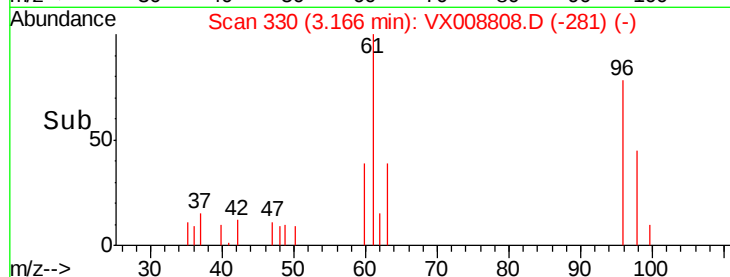
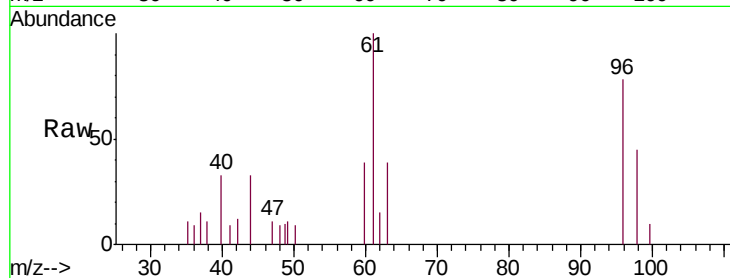
Tgt Ion: 96 Resp: 1033

Ion Ratio Lower Upper

96 100

61 127.8 132.1 198.1#

98 57.8 52.2 78.2



#27

cis-1,2-Dichloroethene

Concen: 81.515 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX008808.D

Acq: 10 Apr 2019 16:19

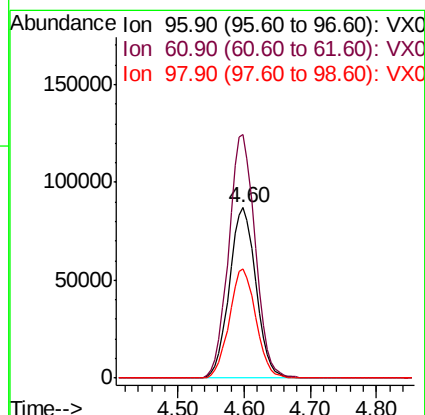
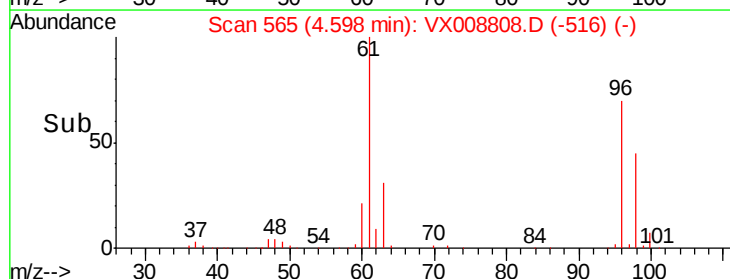
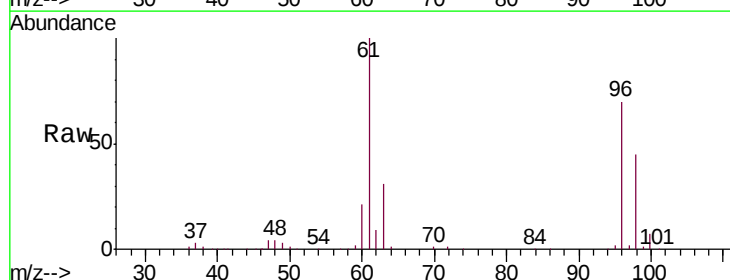
Tgt Ion: 96 Resp: 242630

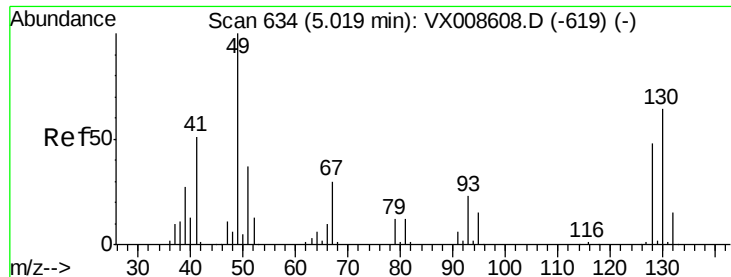
Ion Ratio Lower Upper

96 100

61 142.9 0.0 327.6

98 64.2 0.0 128.6





#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 634

Delta R.T. -0.00 min

Lab File: VX008808.D

Acq: 10 Apr 2019 16:19

Instrument :

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ClientSampleId :

M-19-190409

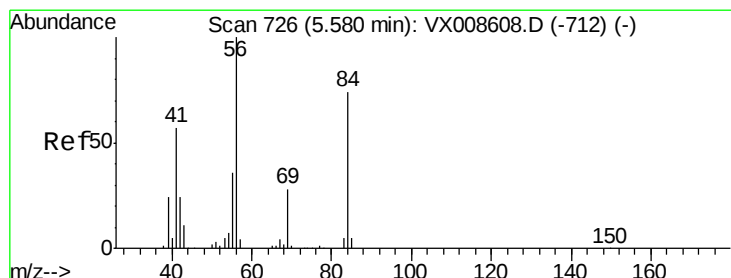
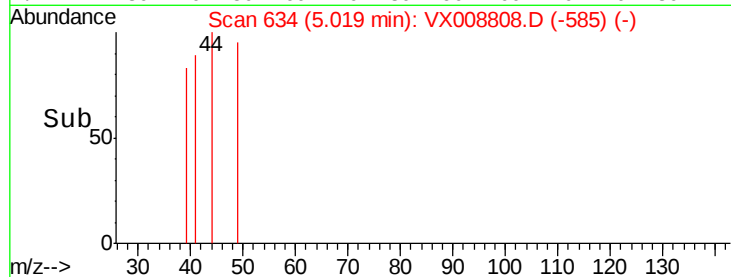
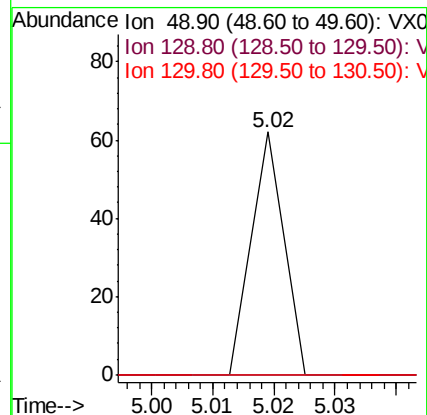
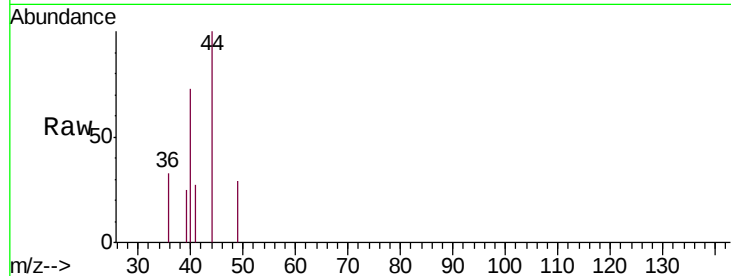
Tgt Ion: 49 Resp: 23

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

130 0.0 49.3 73.9#



#31

Cyclohexane

Concen: 0.896 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX008808.D

Acq: 10 Apr 2019 16:19

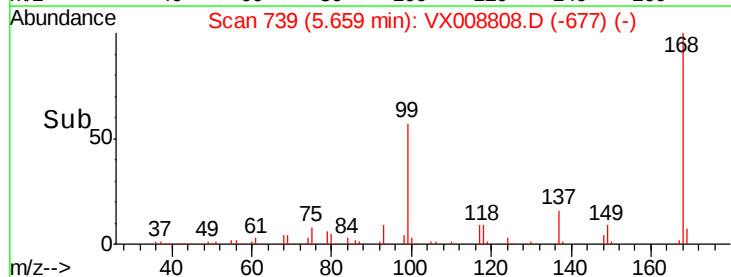
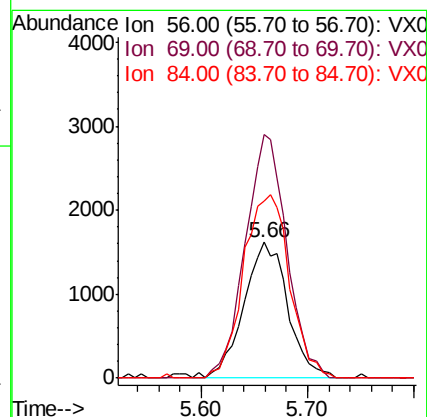
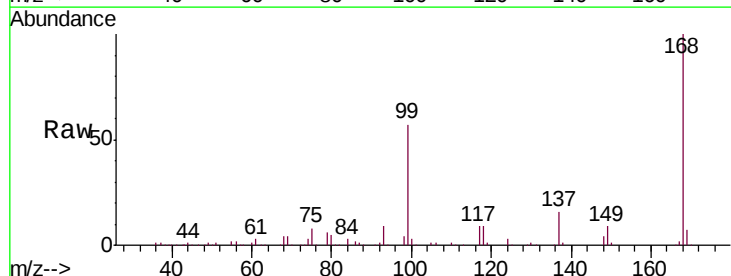
Tgt Ion: 56 Resp: 4673

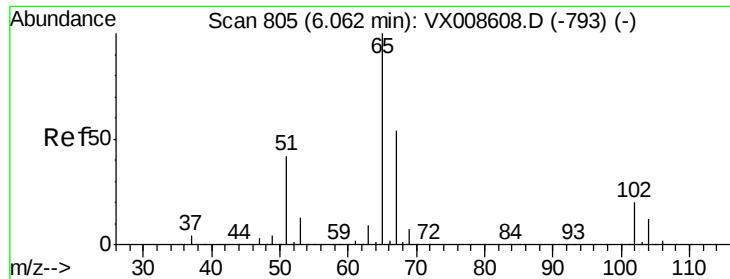
Ion Ratio Lower Upper

56 100

69 179.5 22.6 33.8#

84 130.9 59.3 88.9#

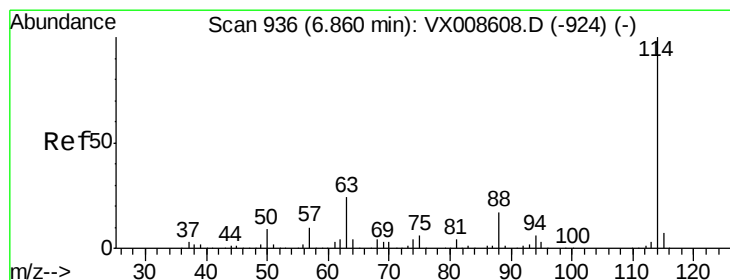
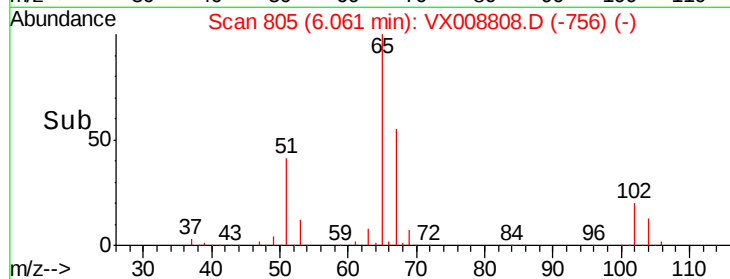
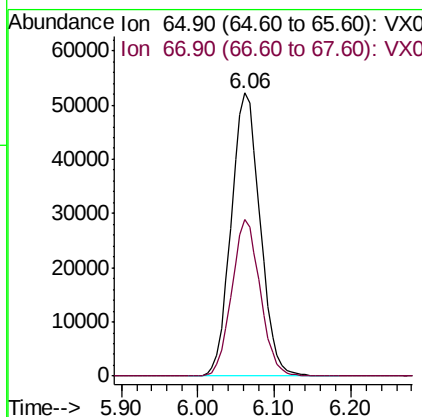
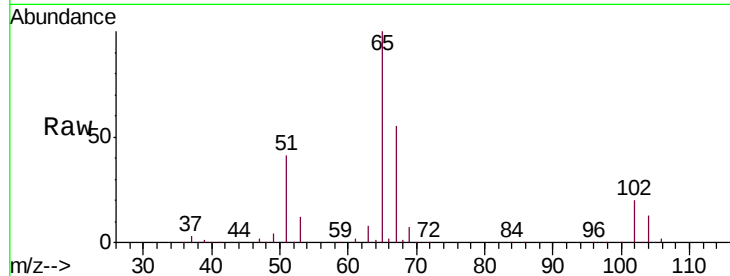




#33
 1,2-Dichloroethane-d4
 Concen: 45.408 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX008808.D
 Acq: 10 Apr 2019 16:19

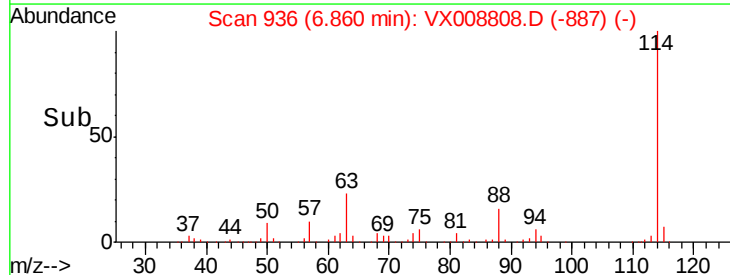
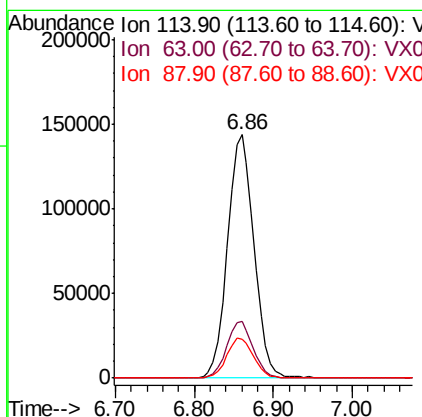
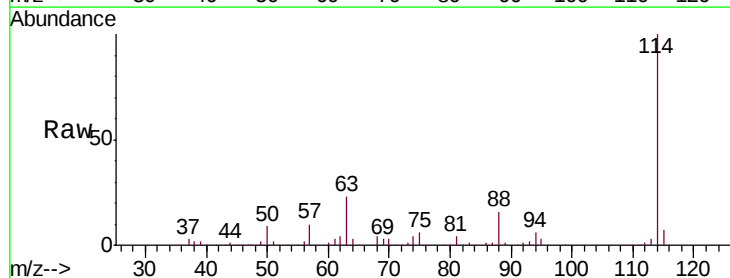
Instrument :
 MSVOA_X
 ClientSampleId :
 M-19-190409

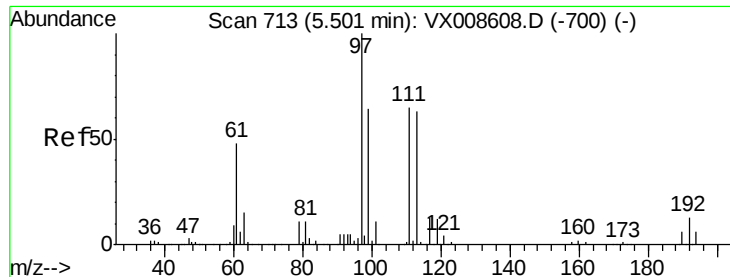
Tgt Ion: 65 Resp: 137116
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008808.D
 Acq: 10 Apr 2019 16:19

Tgt Ion: 114 Resp: 335999
 Ion Ratio Lower Upper
 114 100
 63 23.5 0.0 47.2
 88 16.1 0.0 34.0

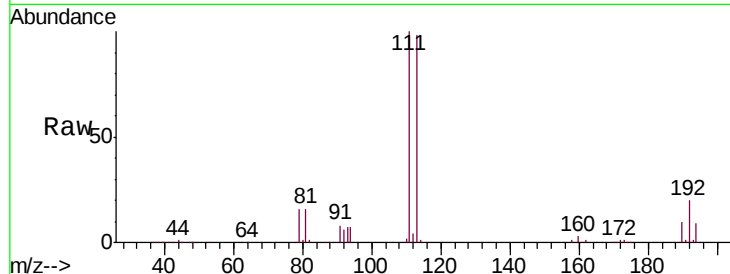




#35
 Dibromofluoromethane
 Concen: 46.937 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. -0.01 min
 Lab File: VX008808.D
 Acq: 10 Apr 2019 16:19

Instrument :
 MSVOA_X
 ClientSampleId :
 M-19-190409

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.8	83.4	125.2
192	21.0	16.1	24.1

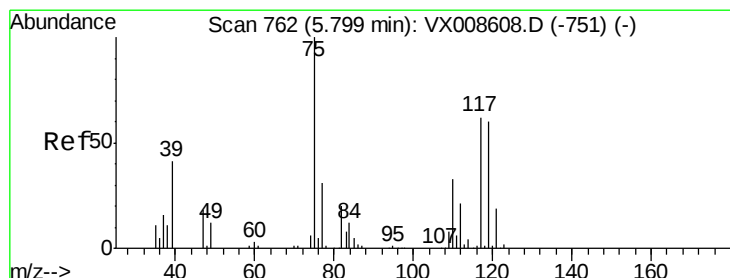
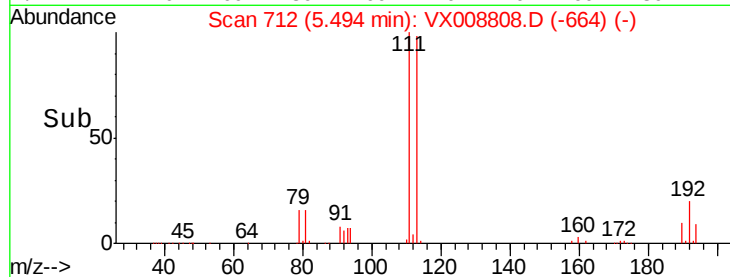
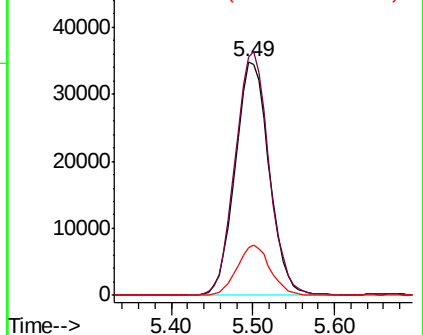


Abundance

Ion 112.80 (112.50 to 113.50): V

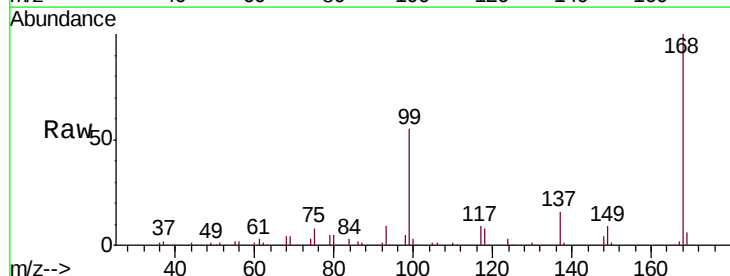
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 4.414 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX008808.D
 Acq: 10 Apr 2019 16:19

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.8	16.4	49.2#
77	0.0	24.7	37.1#

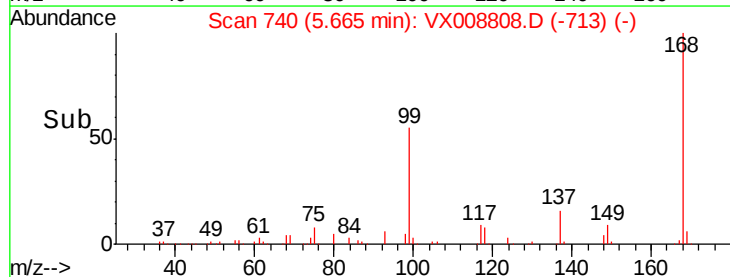
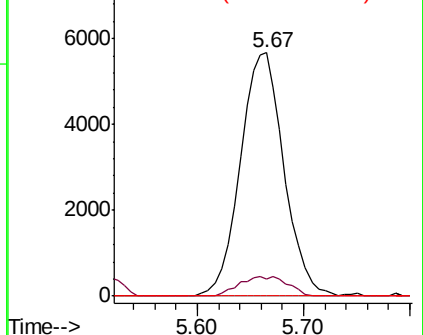


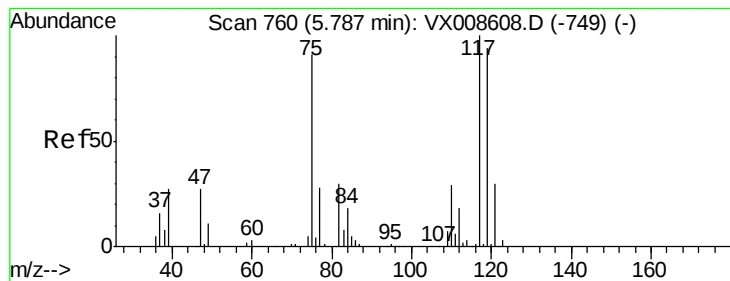
Abundance

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: 6.401 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008808.D

Acq: 10 Apr 2019 16:19

Instrument :

MSVOA_X

ClientSampleId :

M-19-190409

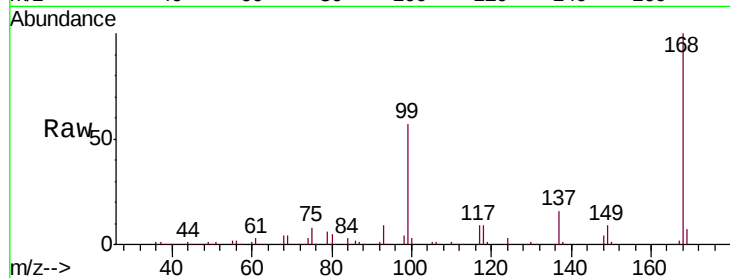
Tgt Ion:117 Resp: 19459

Ion Ratio Lower Upper

117 100

119 5.7 75.0 112.6#

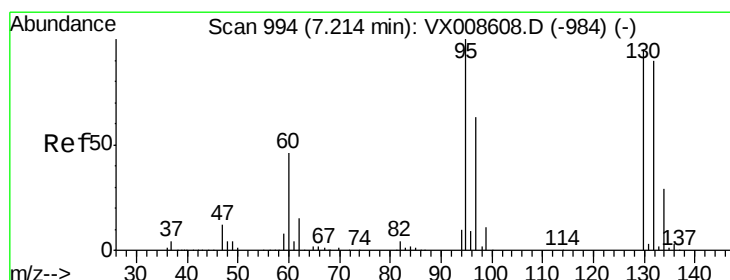
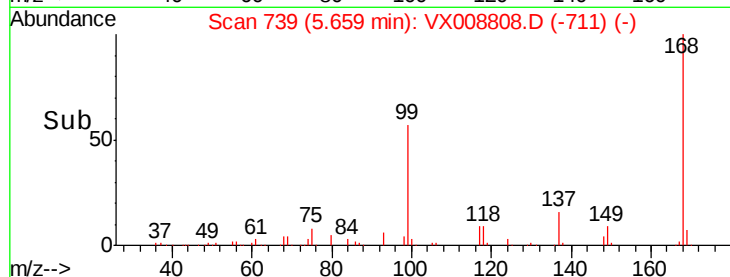
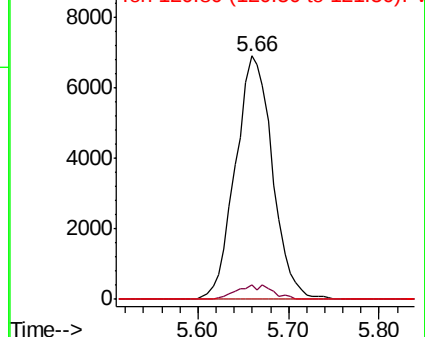
121 0.0 24.3 36.5#



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: 19.480 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX008808.D

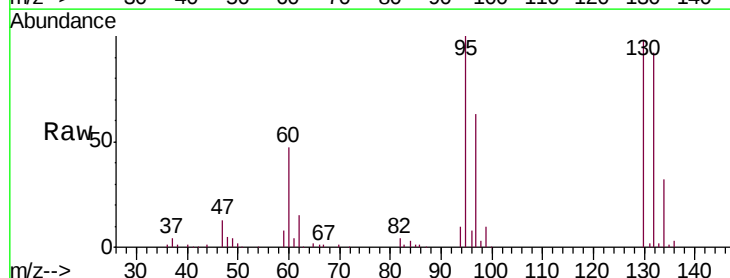
Acq: 10 Apr 2019 16:19

Tgt Ion:130 Resp: 49642

Ion Ratio Lower Upper

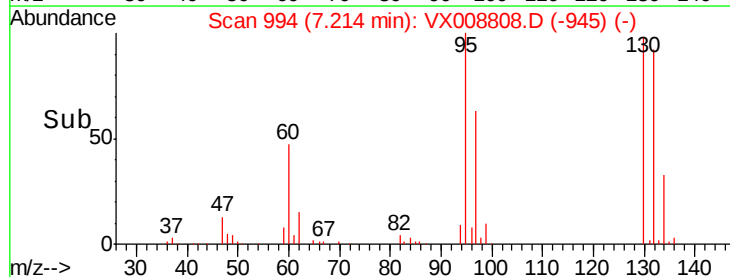
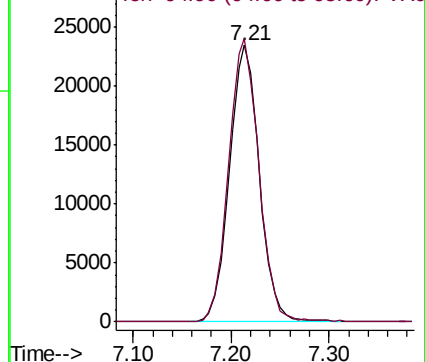
130 100

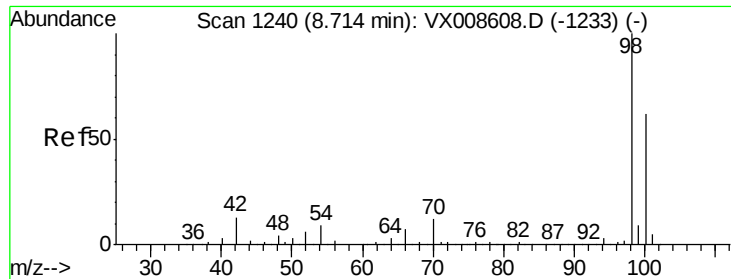
95 102.2 0.0 209.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

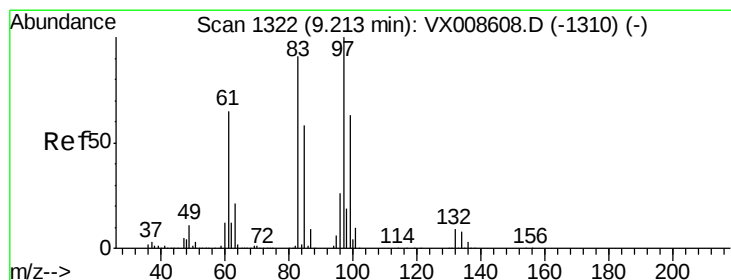
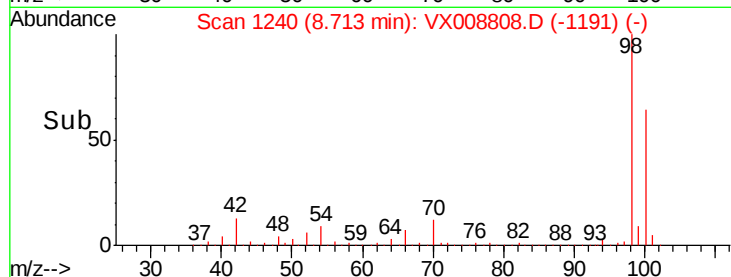
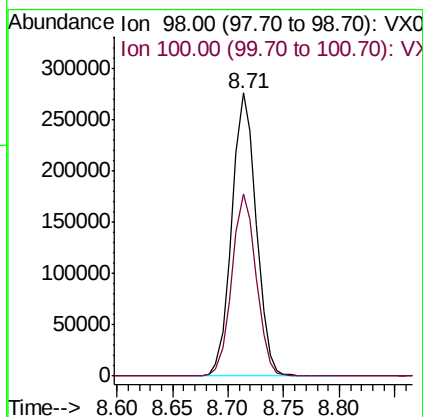
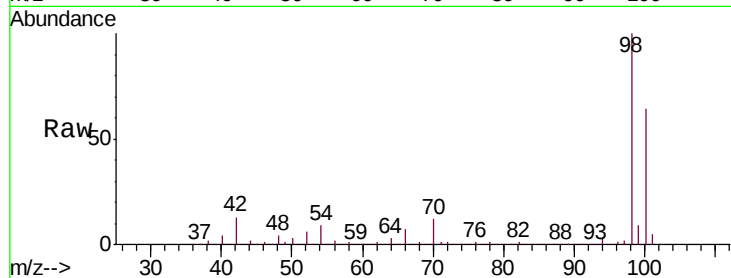




#50
Toluene-d8
Concen: 49.136 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX008808.D
Acq: 10 Apr 2019 16:19

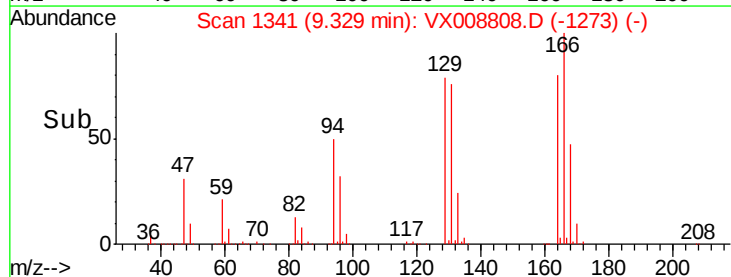
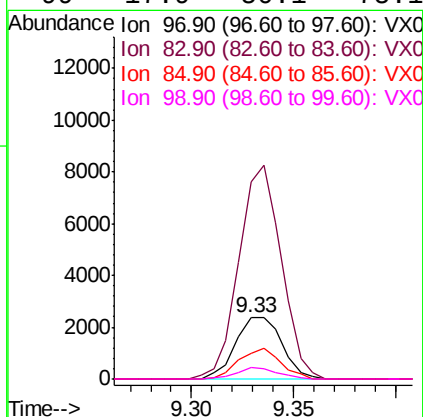
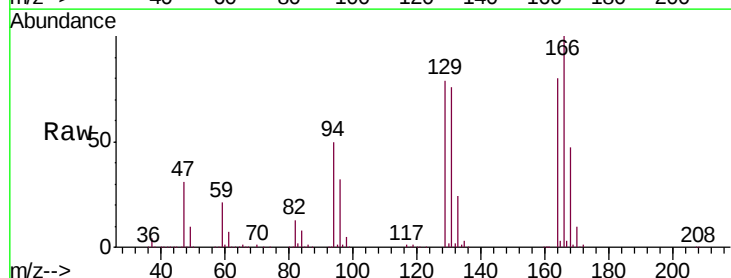
Instrument :
MSVOA_X
ClientSampled :
M-19-190409

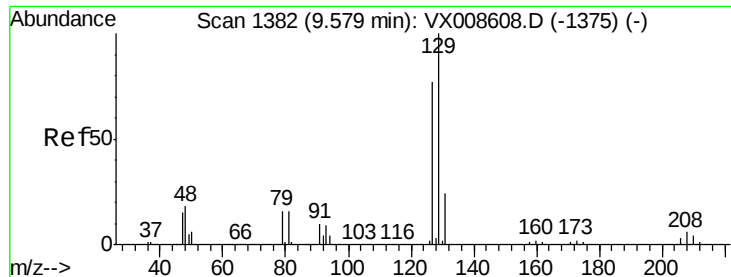
Tgt Ion: 98 Resp: 420299
Ion Ratio Lower Upper
98 100
100 64.3 51.4 77.0



#55
1,1,2-Trichloroethane
Concen: 1.447 ug/l
RT: 9.33 min Scan# 1341
Delta R.T. 0.12 min
Lab File: VX008808.D
Acq: 10 Apr 2019 16:19

Tgt Ion: 97 Resp: 3746
Ion Ratio Lower Upper
97 100
83 320.3 73.2 109.8#
85 42.6 46.6 69.8#
99 17.9 50.1 75.1#





#60

Dibromochloromethane

Concen: 176.951 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX008808.D

Acq: 10 Apr 2019 16:19

Instrument :

MSVOA_X

ClientSampleId :

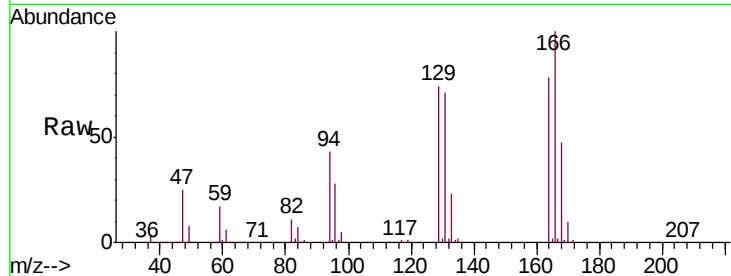
M-19-190409

Tgt Ion:129 Resp: 431762

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.34

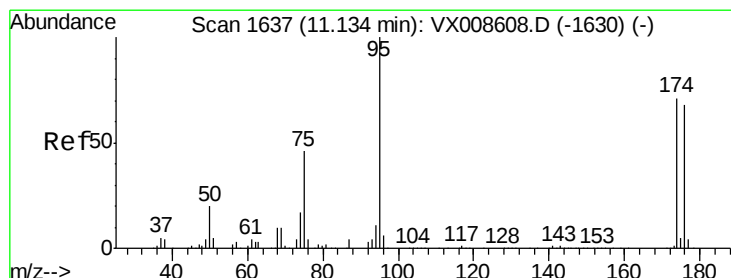
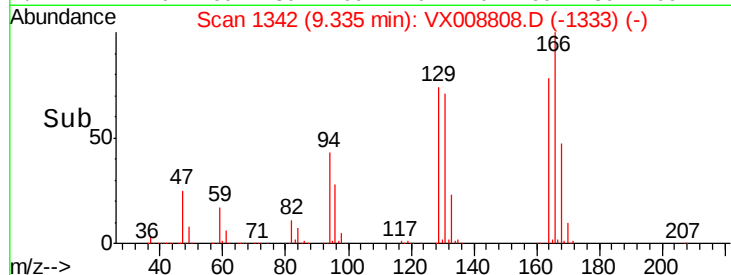
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 45.482 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008808.D

Acq: 10 Apr 2019 16:19

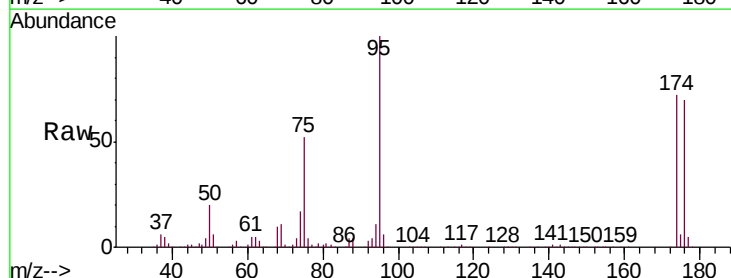
Tgt Ion: 95 Resp: 137961

Ion Ratio Lower Upper

95 100

174 78.0 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

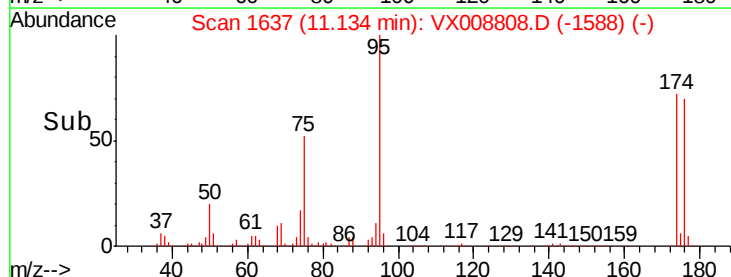
150000

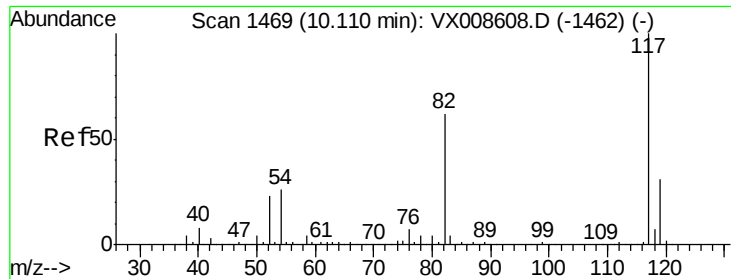
100000

50000

0

Time-->

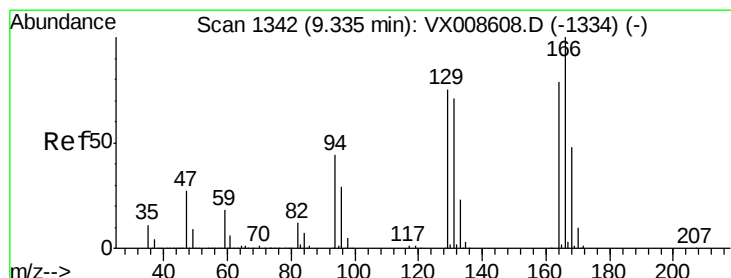
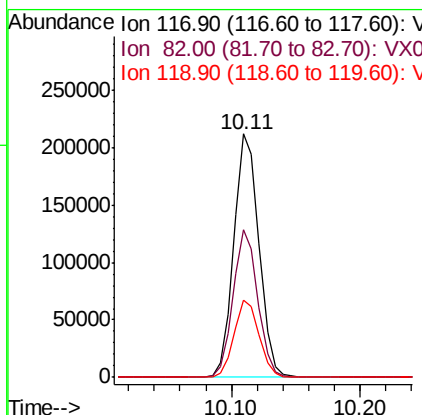
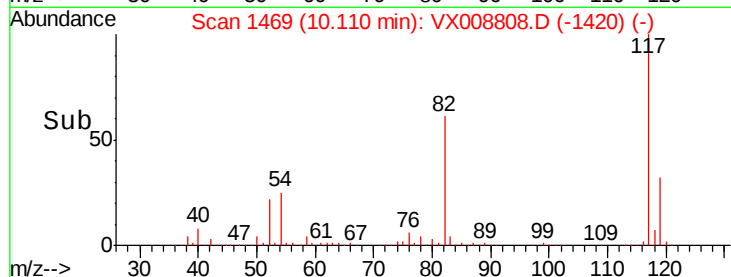
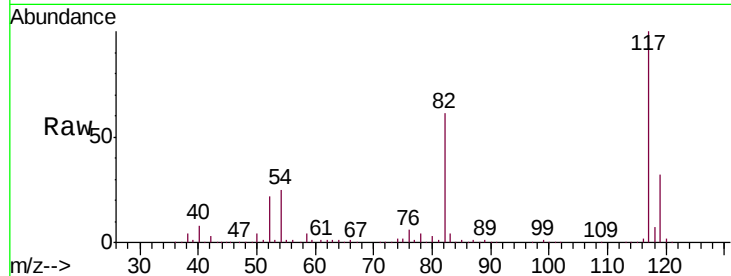




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008808.D
Acq: 10 Apr 2019 16:19

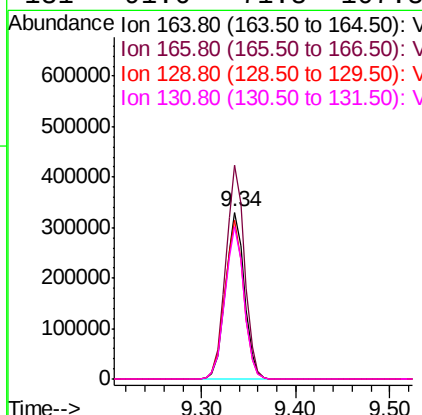
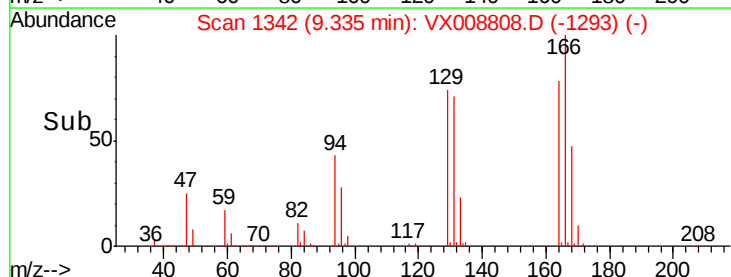
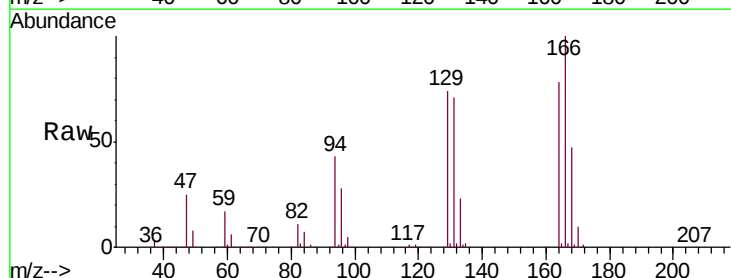
Instrument :
MSVOA_X
ClientSampled :
M-19-190409

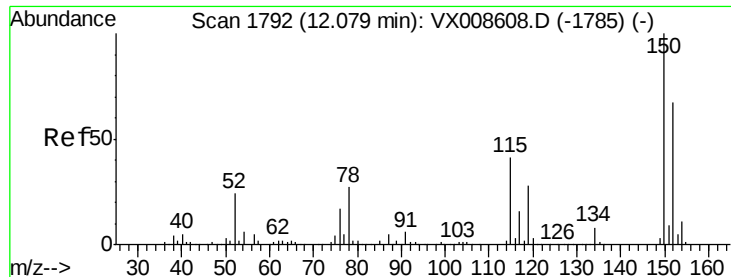
Tgt Ion:117 Resp: 288596
Ion Ratio Lower Upper
117 100
82 60.5 49.6 74.4
119 31.7 25.0 37.4



#64
Tetrachloroethene
Concen: 213.204 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX008808.D
Acq: 10 Apr 2019 16:19

Tgt Ion:164 Resp: 455871
Ion Ratio Lower Upper
164 100
166 128.2 101.0 151.6
129 95.3 75.8 113.8
131 91.6 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: VX008808.D

Acq: 10 Apr 2019 16:19

Instrument :

MSVOA_X

ClientSampleId :

M-19-190409

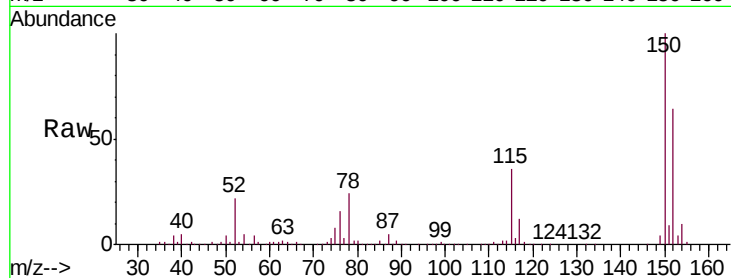
Tgt Ion:152 Resp: 119322

Ion Ratio Lower Upper

152 100

115 58.9 43.5 130.5

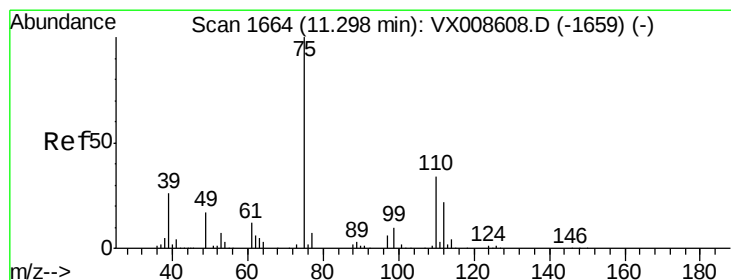
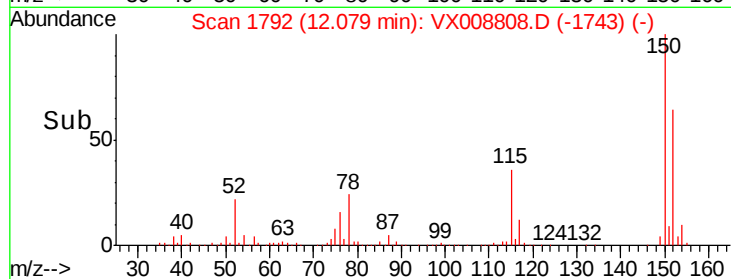
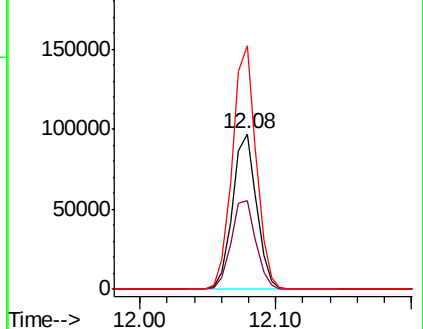
150 155.2 0.0 348.8



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: 21.254 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008808.D

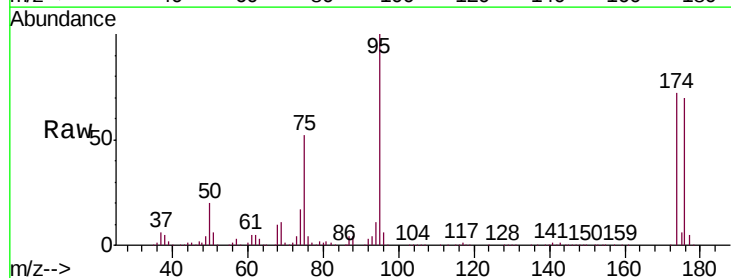
Acq: 10 Apr 2019 16:19

Tgt Ion: 75 Resp: 69668

Ion Ratio Lower Upper

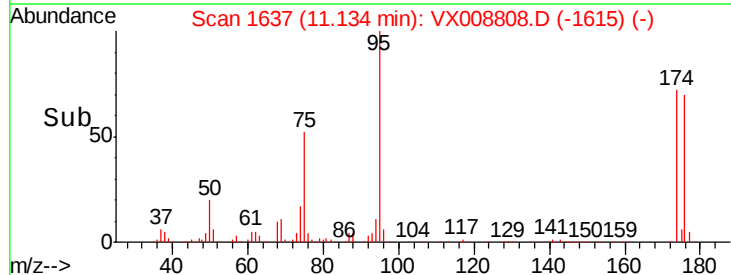
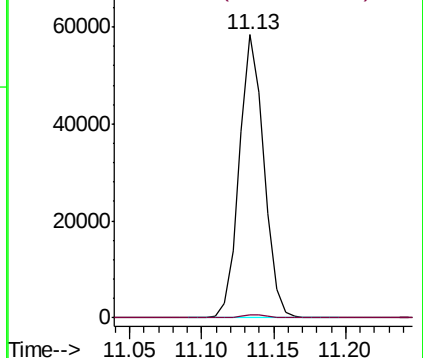
75 100

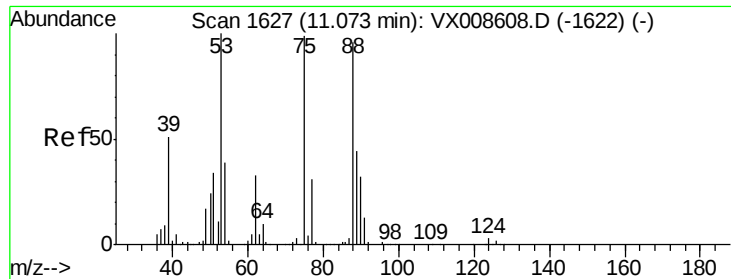
77 1.3 22.3 66.8#



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: 58.587 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX008808.D
 Acq: 10 Apr 2019 16:19

Instrument :
 MSVOA_X
 ClientSampleId :
 M-19-190409

Tgt Ion: 75 Resp: 69668
 Ion Ratio Lower Upper
 75 100
 53 0.0 81.3 121.9#
 89 0.0 35.6 53.4#

