

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041719\
 Data File : VX009007.D
 Acq On : 17 Apr 2019 12:17
 Operator : JC/SP
 Sample : K2425-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS027-190415

Quant Time: Apr 18 01:35:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 06:47:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	247850	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	390620	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	338658	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	144984	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	159168	45.57	ug/l	0.00
Spiked Amount			Recovery	=	91.14%	
35) Dibromofluoromethane	5.49	113	117625	46.92	ug/l	0.00
Spiked Amount			Recovery	=	93.84%	
50) Toluene-d8	8.71	98	486180	48.63	ug/l	0.00
Spiked Amount			Recovery	=	97.26%	
62) 4-Bromofluorobenzene	11.13	95	162750	46.12	ug/l	0.00
Spiked Amount			Recovery	=	92.24%	

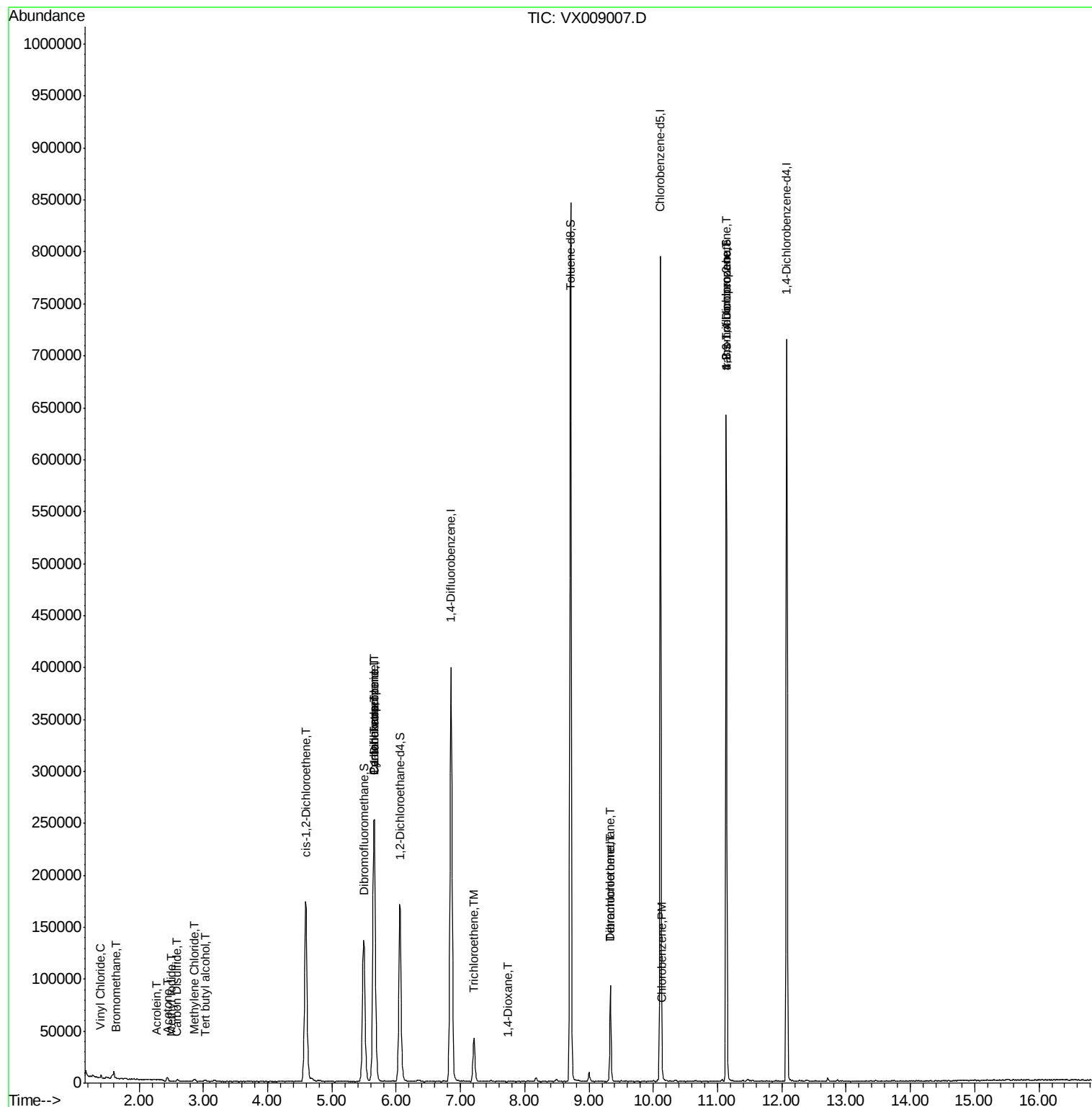
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	2274	0.667	ug/l	99
5) Bromomethane	1.64	94	283	3.971	ug/l #	50
10) Methyl Iodide	2.51	142	205	4.482	ug/l #	88
11) Tert butyl alcohol	3.03	59	1074	1.385	ug/l	95
13) Acrolein	2.28	56	153	0.228	ug/l #	1
16) Acetone	2.44	43	4198	2.318	ug/l	100
17) Carbon Disulfide	2.57	76	624	1.331	ug/l #	75
20) Methylene Chloride	2.85	84	690	0.223	ug/l #	87
27) cis-1,2-Dichloroethene	4.59	96	109498	34.019	ug/l	90
28) Bromochloromethane	5.02	49	48	Below Cal	#	21
31) Cyclohexane	5.66	56	5696	1.024	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	19222	4.758	ug/l #	50
38) Carbon Tetrachloride	5.66	117	23220	6.780	ug/l #	17
44) Trichloroethene	7.21	130	16303	5.583	ug/l	96
49) 1,4-Dioxane	7.73	88	38	0.490	ug/l #	1
60) Dibromochloromethane	9.34	129	17210	6.343	ug/l #	10
64) Tetrachloroethene	9.34	164	18477	7.182	ug/l	98
65) Chlorobenzene	10.14	112	1551	0.217	ug/l #	68
76) 1,2,3-Trichloropropane	11.13	75	82506	23.305	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	82506	59.831	ug/l #	11

(#) = 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. -0.01 min

Lab File: VX009007.D

Acq: 17 Apr 2019 12:17

Instrument :

MSVOA_X

ClientSampleId :

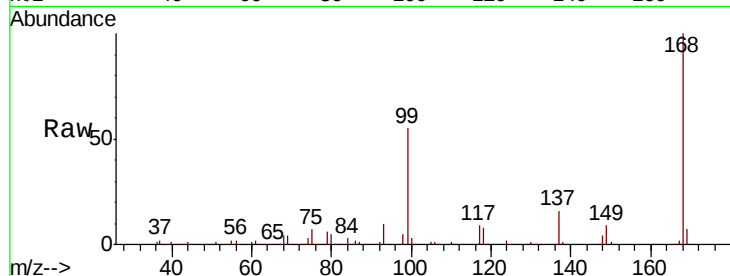
KY038PS027-190415

Tot Ion:168 Resp: 247850

Ion Ratio Lower Upper

168 100

99 55.4 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

60000

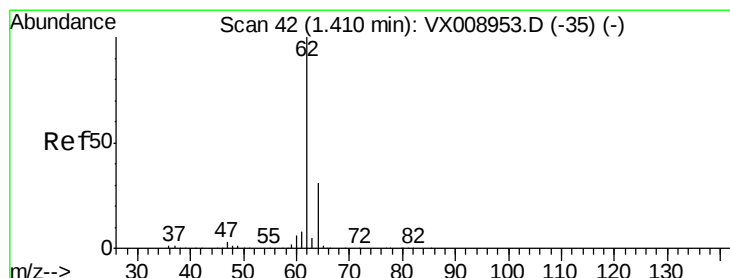
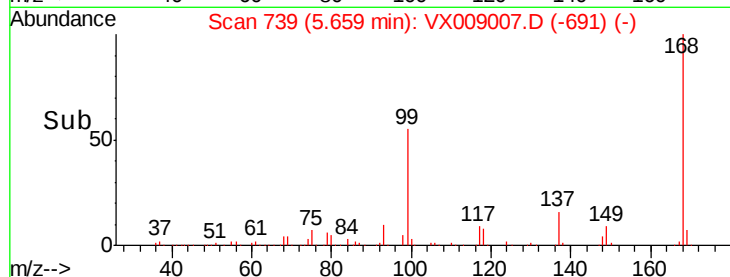
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 0.667 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX009007.D

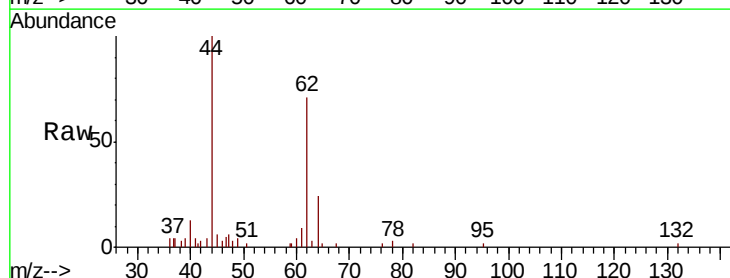
Acq: 17 Apr 2019 12:17

Tgt Ion: 62 Resp: 2274

Ion Ratio Lower Upper

62 100

64 30.4 25.0 37.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

2000

1500

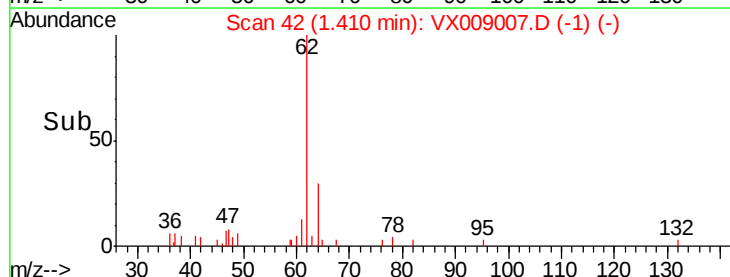
1000

500

0

Time-->

1.35 1.40 1.45





#5

Bromomethane

Concen: 3.971 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX009007.D

Acq: 17 Apr 2019 12:17

Instrument :

MSVOA_X

ClientSampleId :

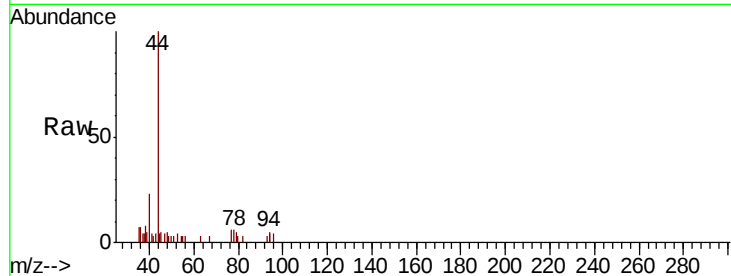
KY038PS027-190415

Tot Ion: 94 Resp: 283

Ion Ratio Lower Upper

94 100

96 45.0 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

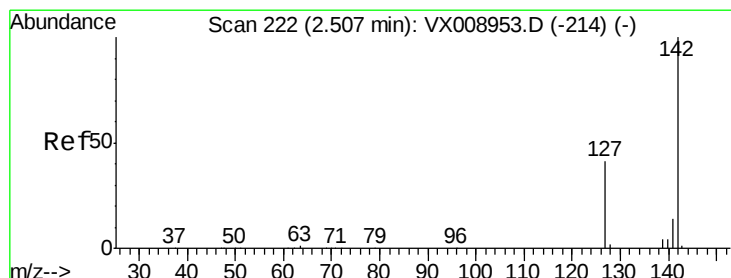
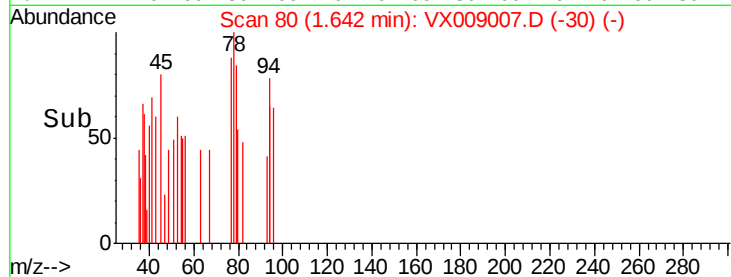
150

100

50

0

Time--> 1.60 1.65 1.70



#10

Methyl Iodide

Concen: 4.482 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX009007.D

Acq: 17 Apr 2019 12:17

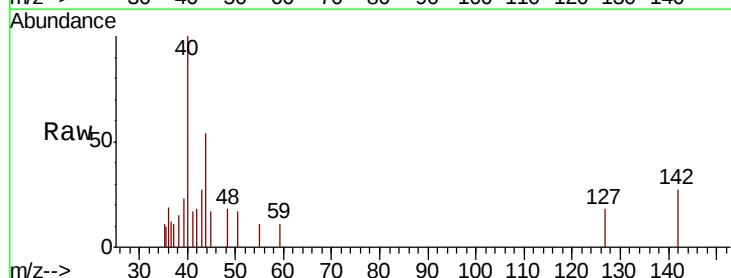
Tgt Ion: 142 Resp: 205

Ion Ratio Lower Upper

142 100

127 38.5 32.8 49.2

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

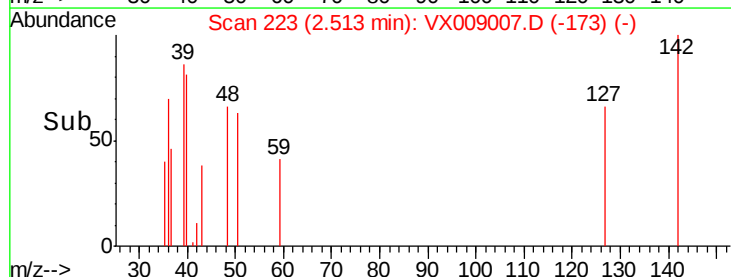
150

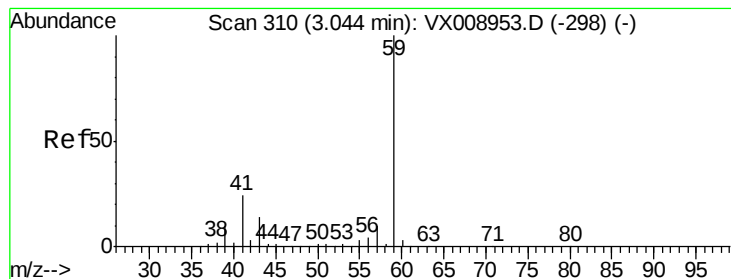
100

50

0

Time--> 2.50 2.55



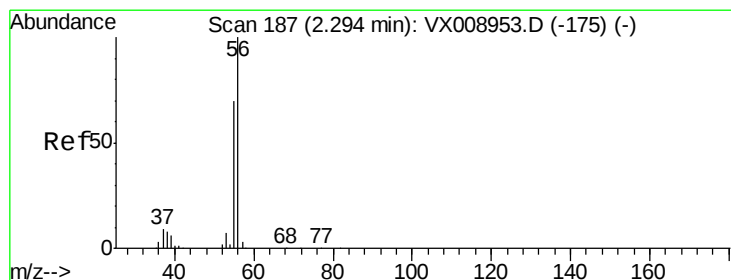
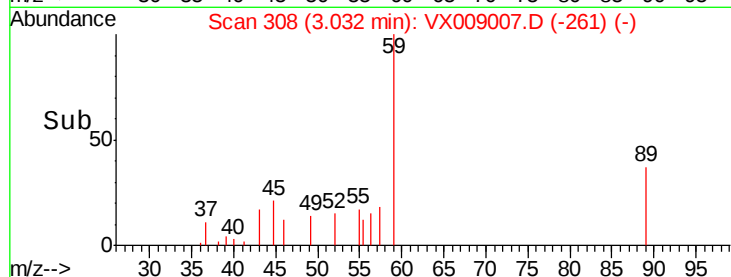
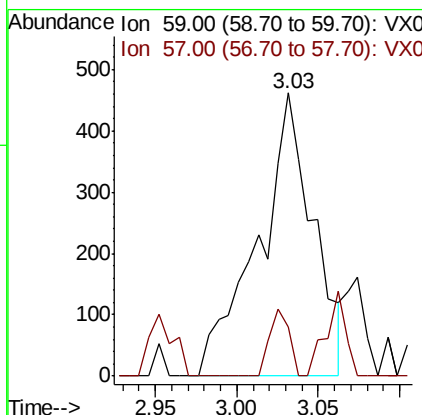
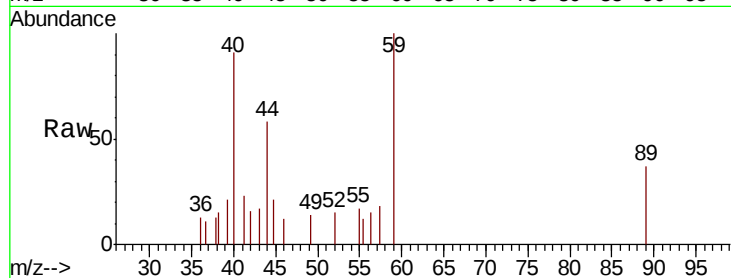


#11

Tert butyl alcohol
 Concen: 1.385 ug/l
 RT: 3.03 min Scan# 308
 Delta R.T. -0.01 min
 Lab File: VX009007.D
 Acq: 17 Apr 2019 12:17

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS027-190415

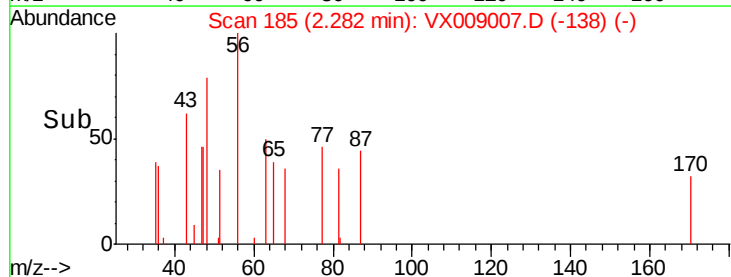
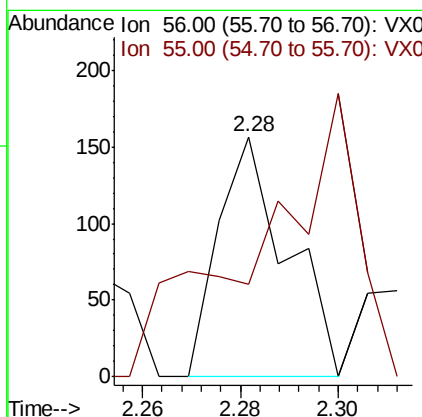
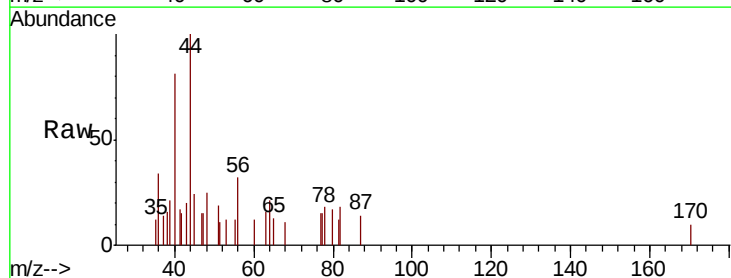
Tot Ion: 59 Resp: 1074
 Ion Ratio Lower Upper
 59 100
 57 8.5 8.4 12.6

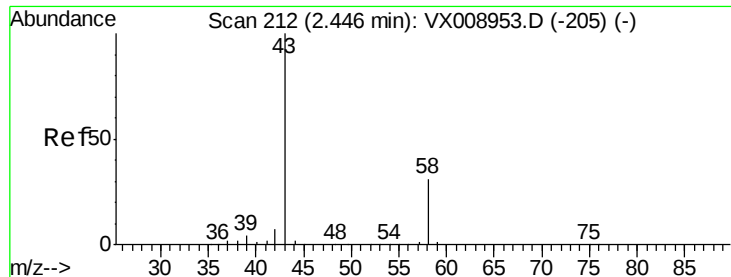


#13

Acrolein
 Concen: 0.228 ug/l
 RT: 2.28 min Scan# 185
 Delta R.T. -0.01 min
 Lab File: VX009007.D
 Acq: 17 Apr 2019 12:17

Tgt Ion: 56 Resp: 153
 Ion Ratio Lower Upper
 56 100
 55 171.2 56.6 84.8#





#16

Acetone

Concen: 2.318 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009007.D

Acq: 17 Apr 2019 12:17

Instrument :

MSVOA_X

ClientSampleId :

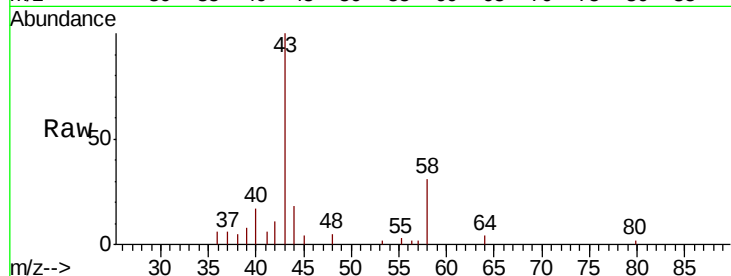
KY038PS027-190415

Tot Ion: 43 Resp: 4198

Ion Ratio Lower Upper

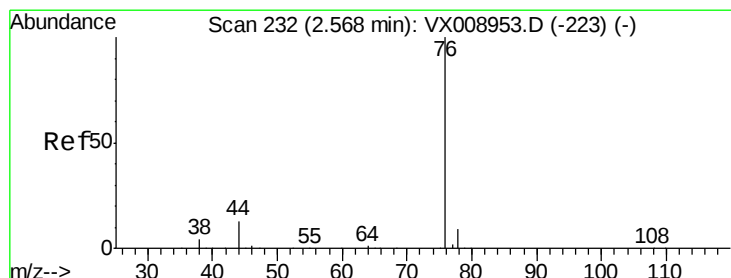
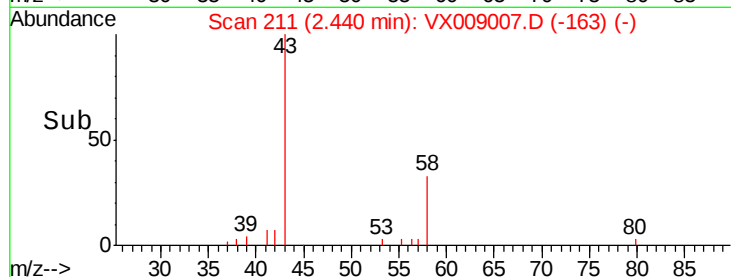
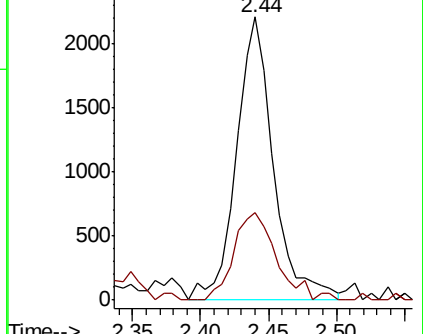
43 100

58 31.2 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 1.331 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX009007.D

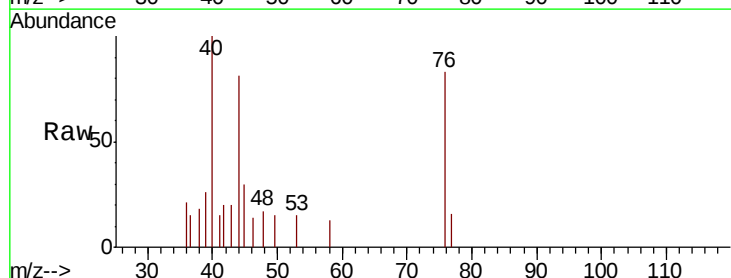
Acq: 17 Apr 2019 12:17

Tgt Ion: 76 Resp: 624

Ion Ratio Lower Upper

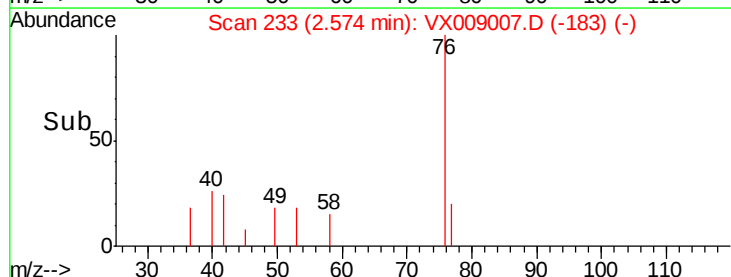
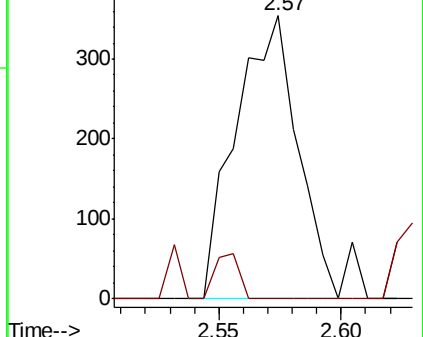
76 100

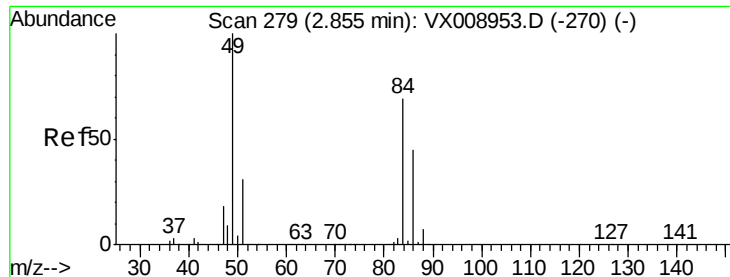
78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

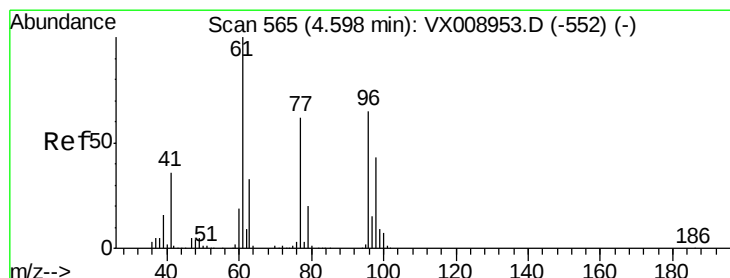
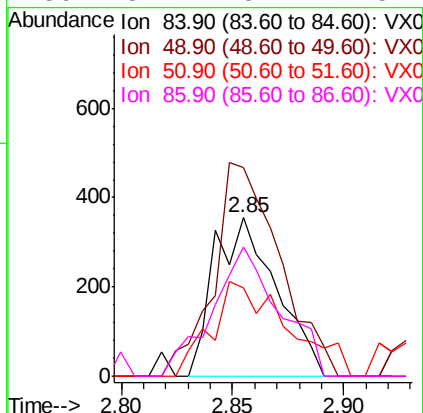
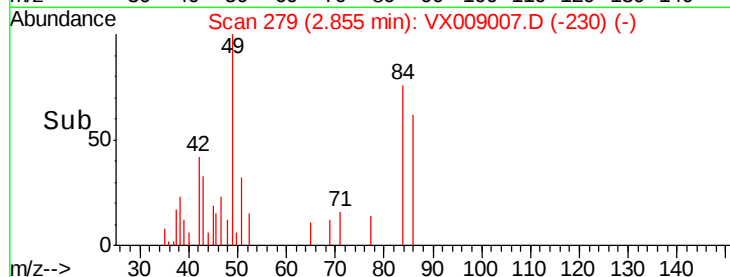
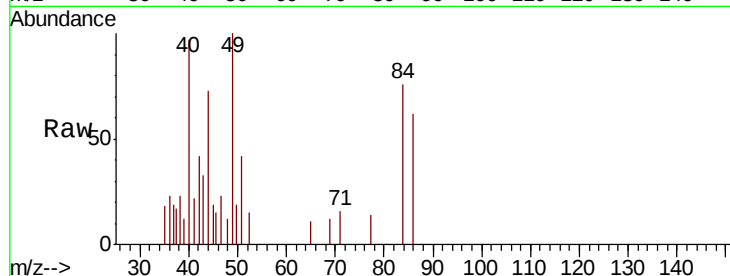




#20
Methylene Chloride
Concen: 0.223 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX009007.D
Acq: 17 Apr 2019 12:17

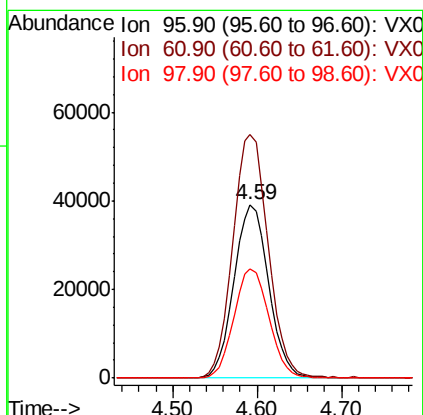
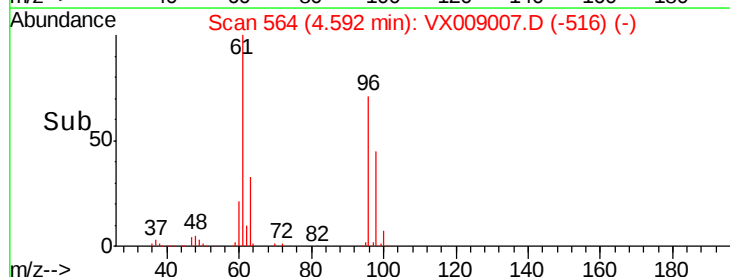
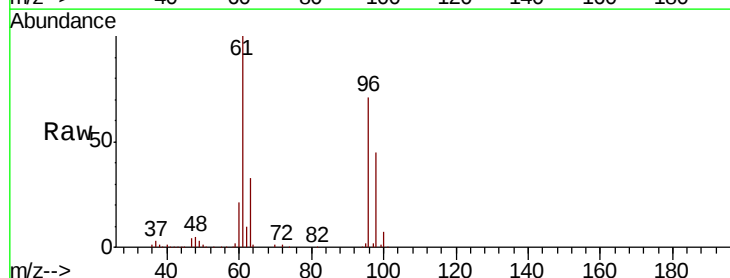
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ClientSampleId :
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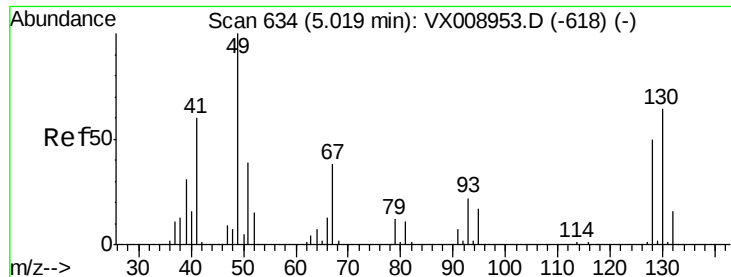
Tot Ion: 84 Resp: 690
Ion Ratio Lower Upper
84 100
49 131.3 115.4 173.0
51 39.4 35.8 53.6
86 81.7 52.1 78.1#



#27
cis-1,2-Dichloroethene
Concen: 34.019 ug/l
RT: 4.59 min Scan# 564
Delta R.T. -0.01 min
Lab File: VX009007.D
Acq: 17 Apr 2019 12:17

Tgt Ion: 96 Resp: 109498
Ion Ratio Lower Upper
96 100
61 142.9 0.0 322.0
98 63.6 0.0 128.4





#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 634

Delta R.T. -0.00 min

Lab File: VX009007.D

Acq: 17 Apr 2019 12:17

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-190415

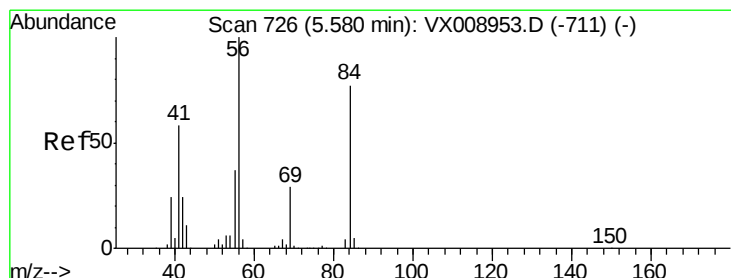
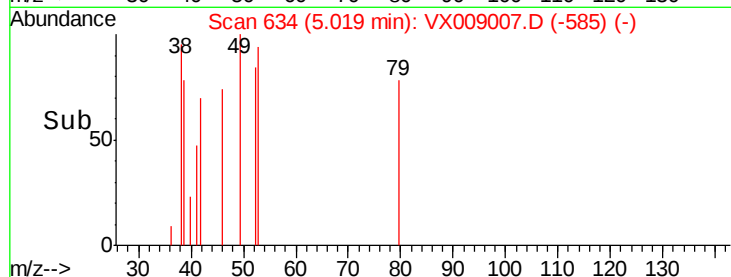
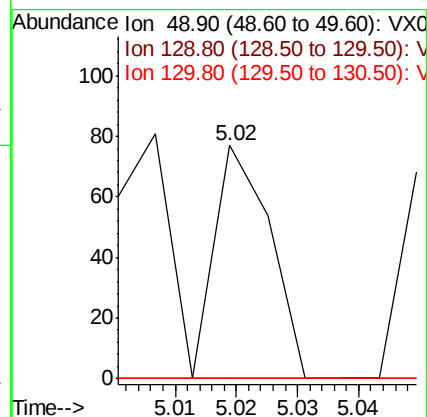
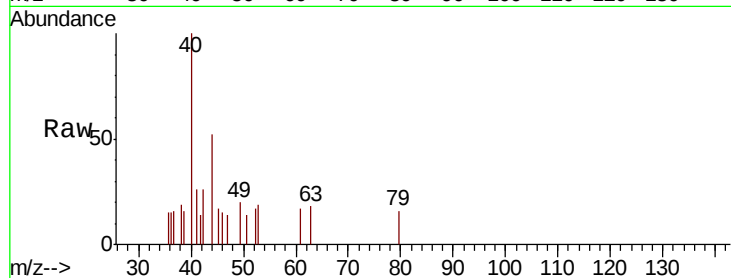
Tot Ion: 49 Resp: 48

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

130 0.0 50.4 75.6#



#31

Cyclohexane

Concen: 1.024 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009007.D

Acq: 17 Apr 2019 12:17

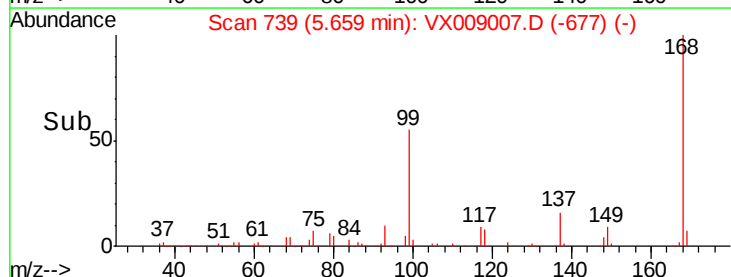
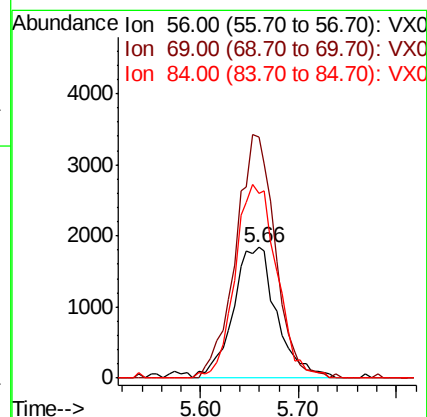
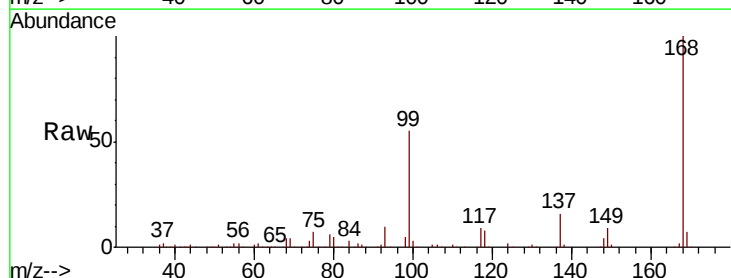
Tgt Ion: 56 Resp: 5696

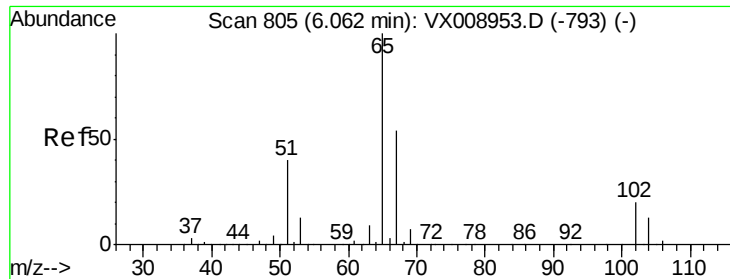
Ion Ratio Lower Upper

56 100

69 184.5 23.3 34.9#

84 141.6 61.7 92.5#

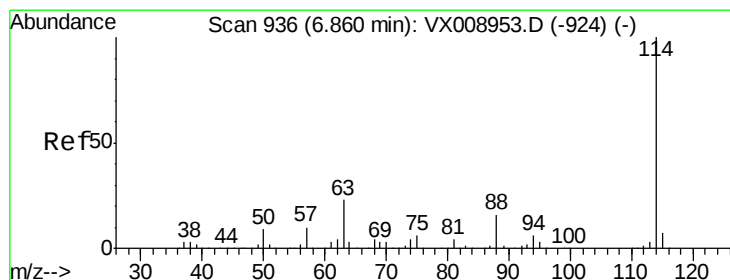
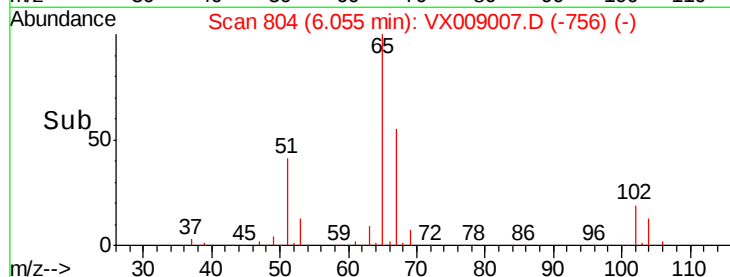
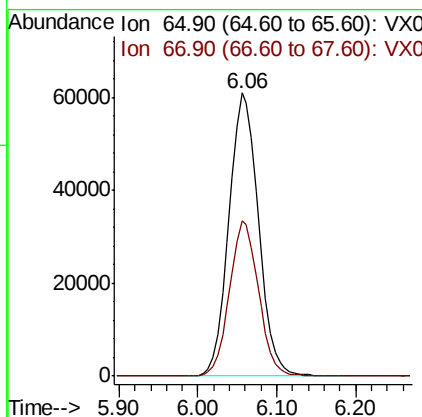
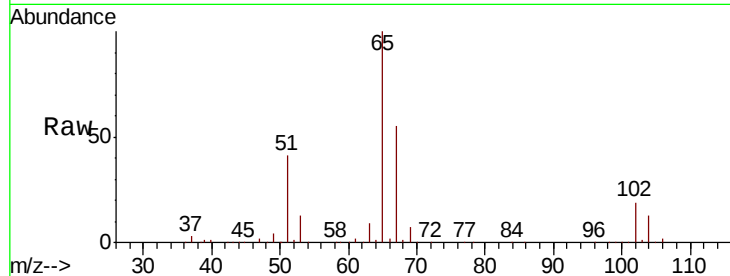




#33
 1,2-Dichloroethane-d4
 Concen: 45.569 ug/l
 RT: 6.06 min Scan# 804
 Delta R.T. -0.01 min
 Lab File: VX009007.D
 Acq: 17 Apr 2019 12:17

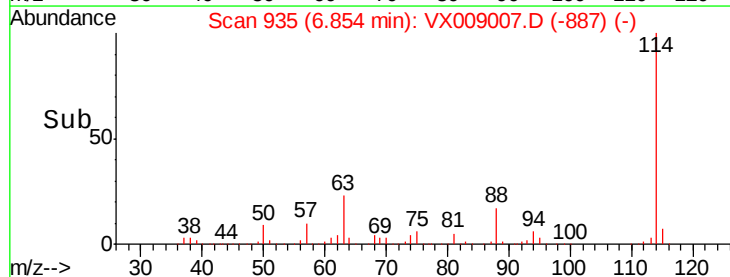
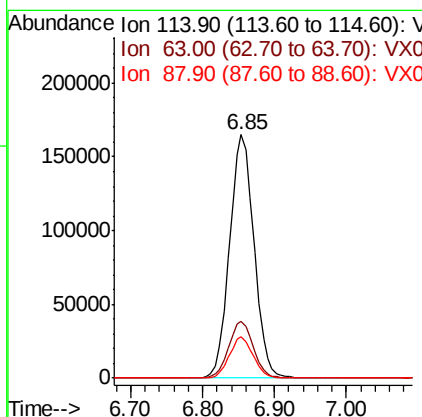
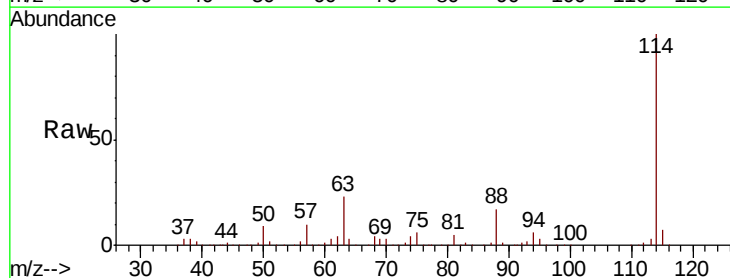
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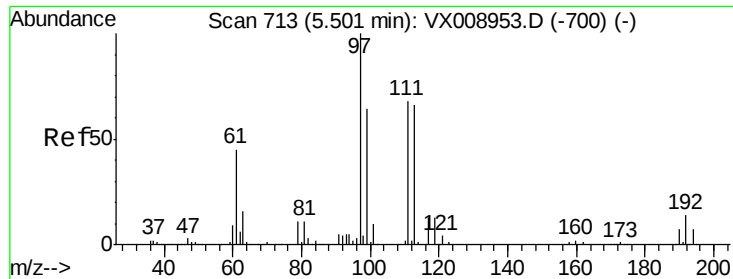
Tot Ion: 65 Resp: 159168
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 108.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. -0.01 min
 Lab File: VX009007.D
 Acq: 17 Apr 2019 12:17

Tgt Ion: 114 Resp: 390620
 Ion Ratio Lower Upper
 114 100
 63 23.3 0.0 46.0
 88 16.9 0.0 32.6

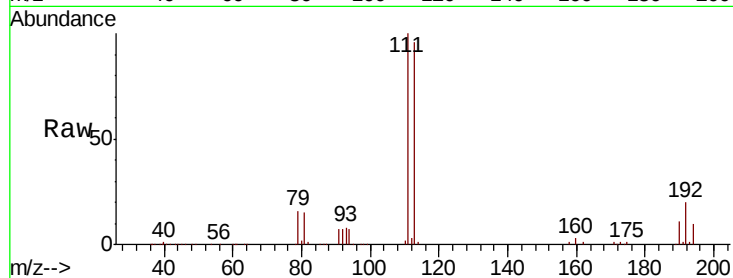




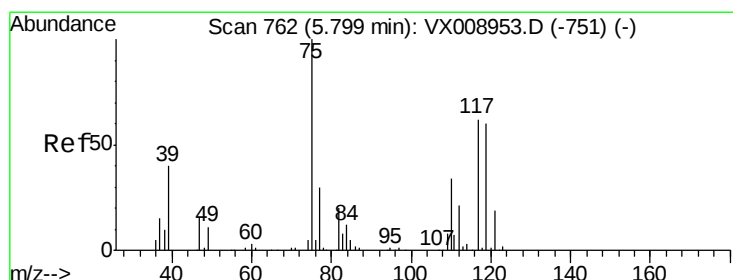
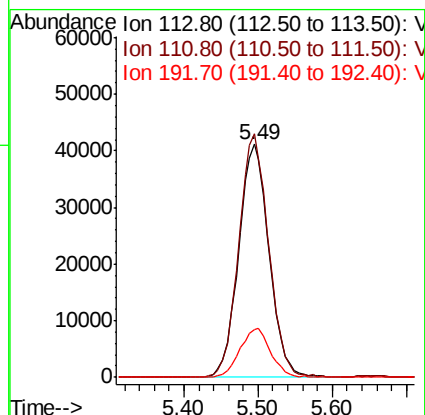
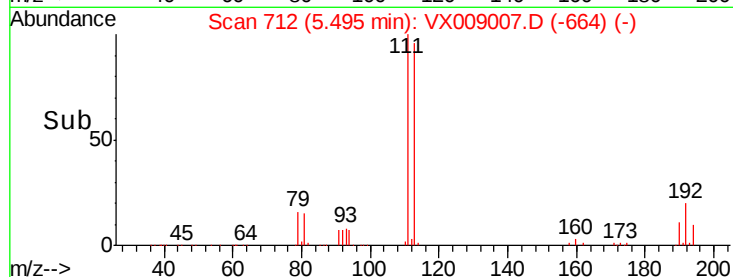
#35
 Dibromofluoromethane
 Concen: 46.920 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. -0.01 min
 Lab File: VX009007.D
 Acq: 17 Apr 2019 12:17

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS027-190415

Tot Ion:113 Resp: 117625
 Ion Ratio Lower Upper
 113 100
 111 103.0 82.9 124.3
 192 21.1 17.4 26.0

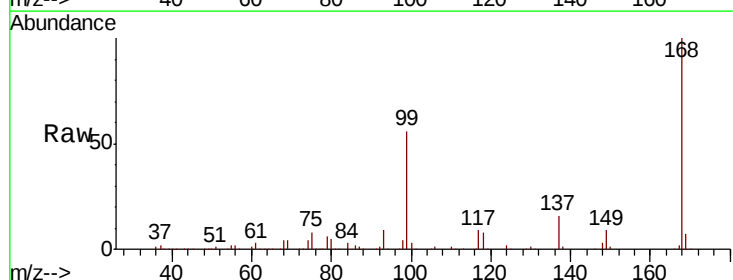


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

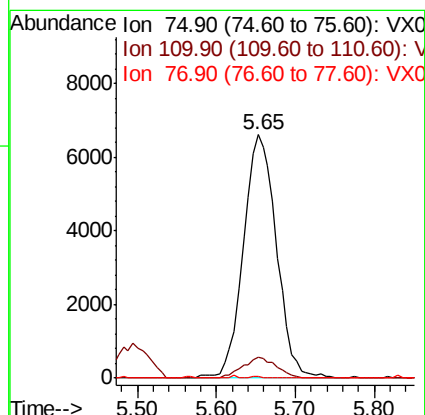
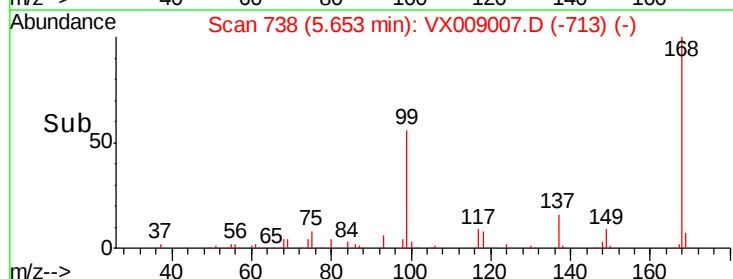


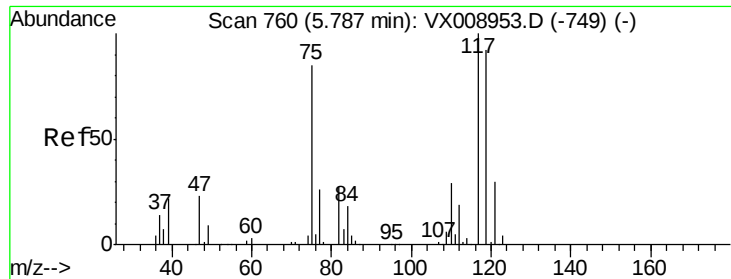
#36
 1,1-Dichloropropene
 Concen: 4.758 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.15 min
 Lab File: VX009007.D
 Acq: 17 Apr 2019 12:17

Tgt Ion: 75 Resp: 19222
 Ion Ratio Lower Upper
 75 100
 110 8.6 16.9 50.7#
 77 0.2 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: 6.780 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX009007.D

Acq: 17 Apr 2019 12:17

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-190415

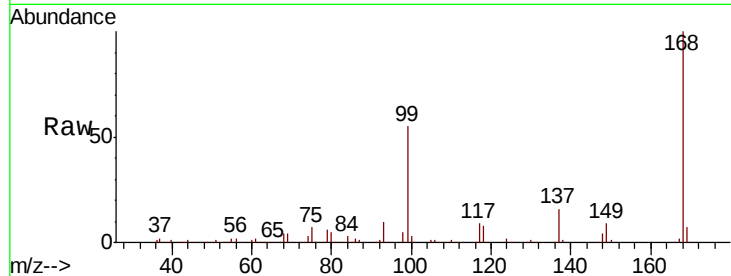
Tot Ion:117 Resp: 23220

Ion Ratio Lower Upper

117 100

119 3.8 73.8 110.8#

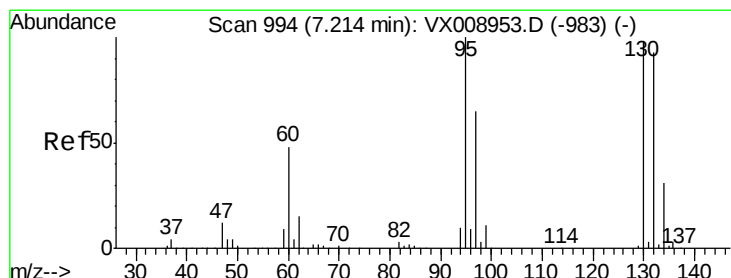
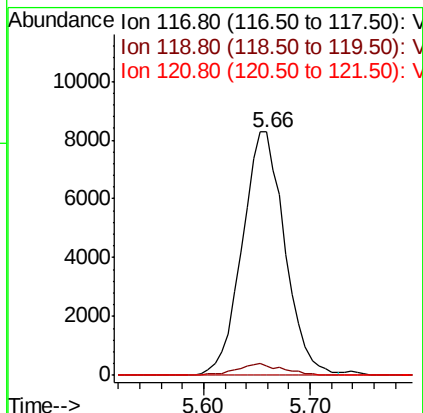
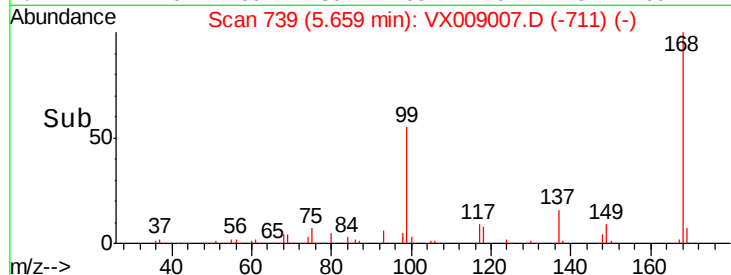
121 0.0 23.6 35.4#



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: 5.583 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX009007.D

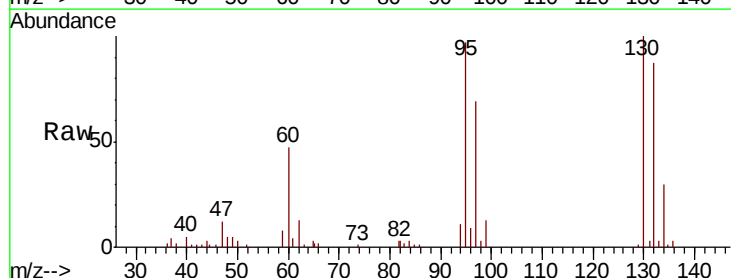
Acq: 17 Apr 2019 12:17

Tgt Ion:130 Resp: 16303

Ion Ratio Lower Upper

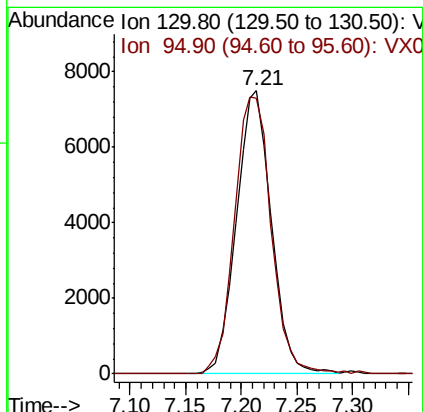
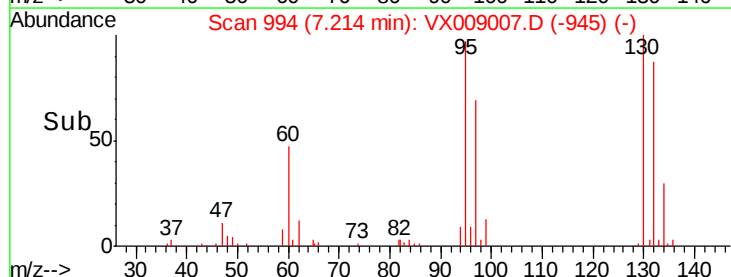
130 100

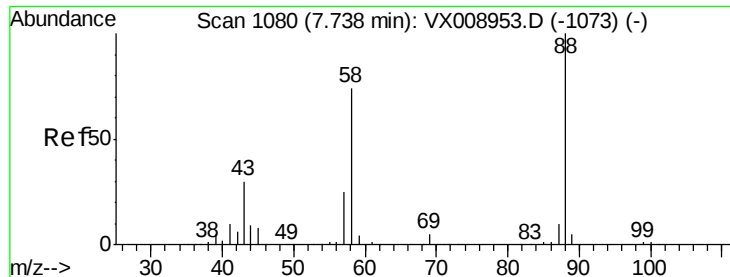
95 97.5 0.0 203.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 0.490 ug/l

RT: 7.73 min Scan# 1078

Delta R.T. -0.01 min

Lab File: VX009007.D

Acq: 17 Apr 2019 12:17

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-190415

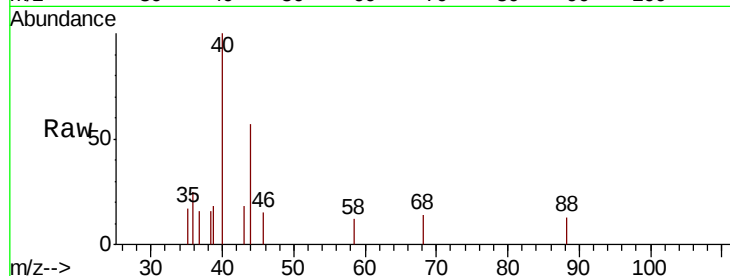
Tot Ion: 88 Resp: 38

Ion Ratio Lower Upper

88 100

43 328.9 29.3 43.9#

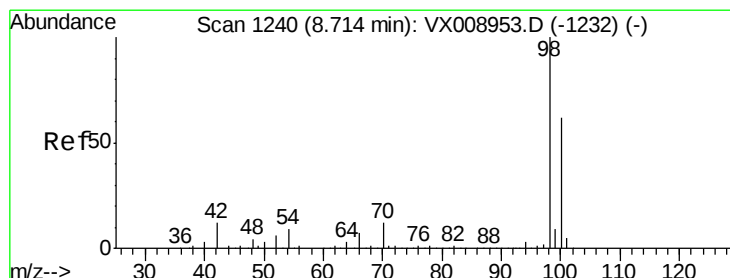
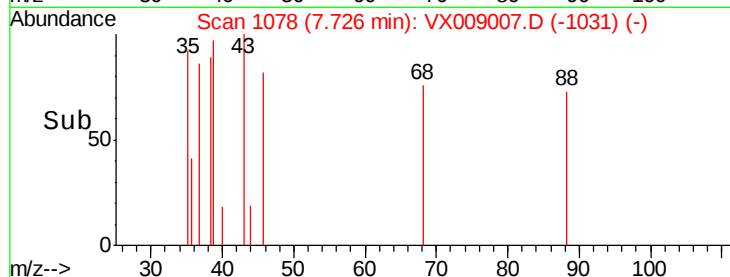
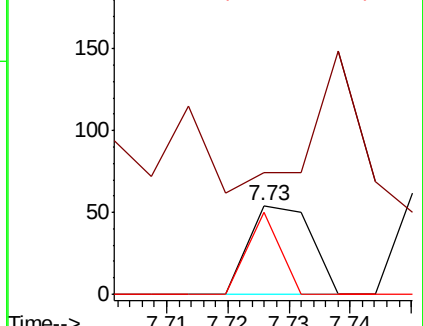
58 47.4 62.6 93.8#



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: 48.629 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009007.D

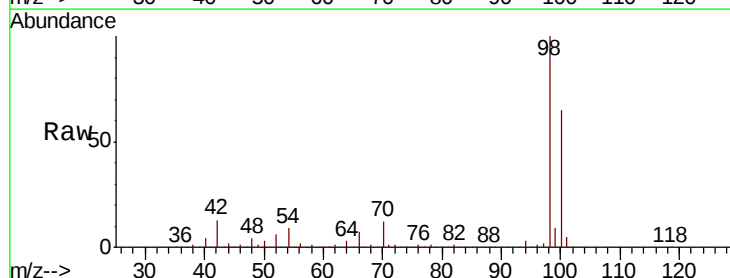
Acq: 17 Apr 2019 12:17

Tgt Ion: 98 Resp: 486180

Ion Ratio Lower Upper

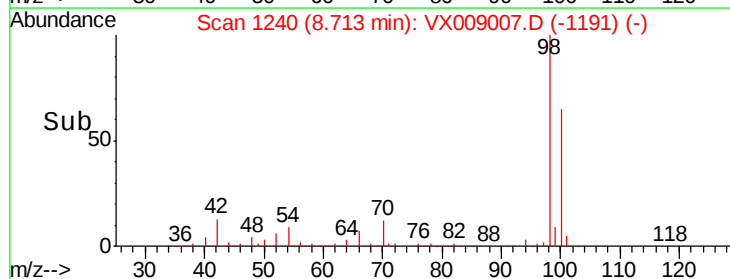
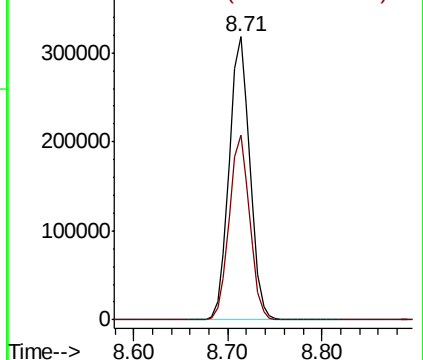
98 100

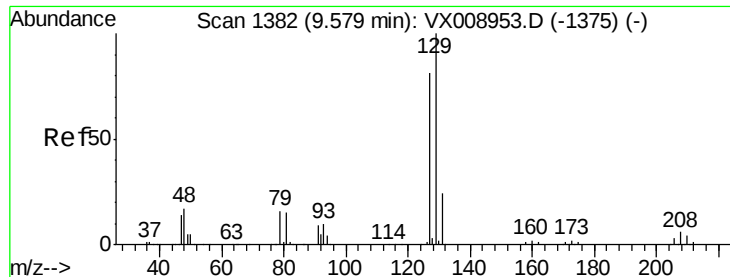
100 64.5 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#60

Dibromochloromethane

Concen: 6.343 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX009007.D

Acq: 17 Apr 2019 12:17

Instrument :

MSVOA_X

ClientSampleId :

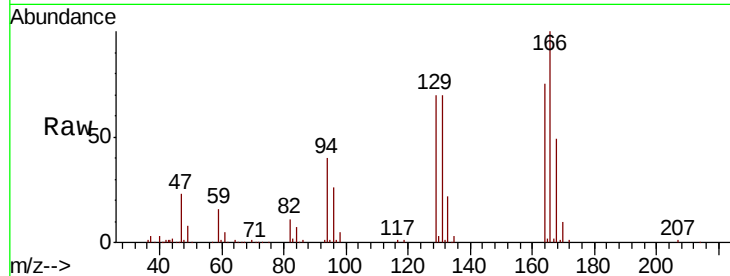
KY038PS027-190415

Tot Ion:129 Resp: 17210

Ion Ratio Lower Upper

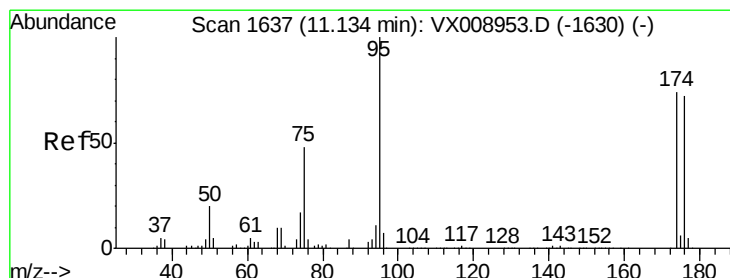
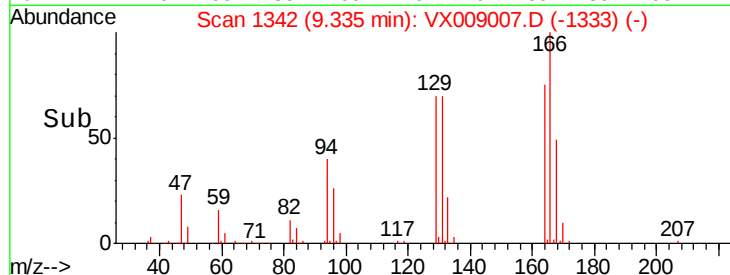
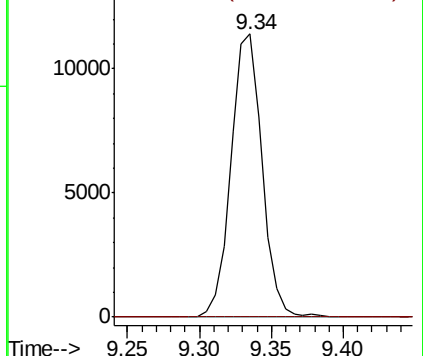
129 100

127 0.0 39.1 117.2#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 46.115 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009007.D

Acq: 17 Apr 2019 12:17

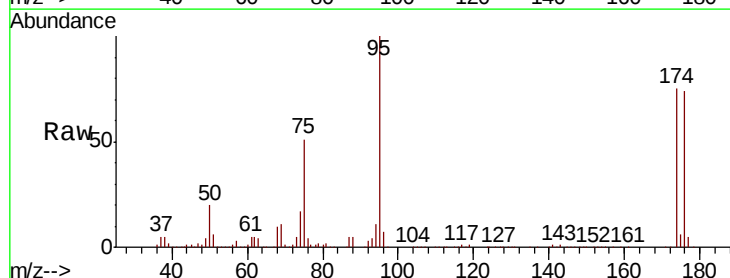
Tgt Ion: 95 Resp: 162750

Ion Ratio Lower Upper

95 100

174 79.6 0.0 159.6

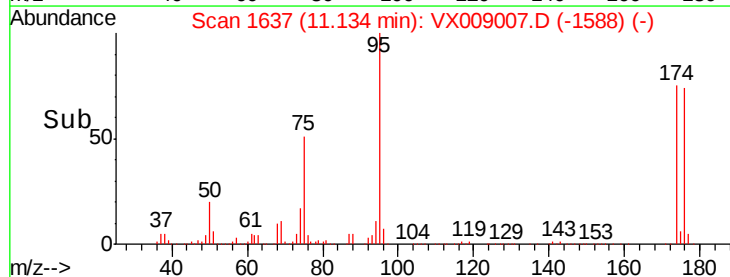
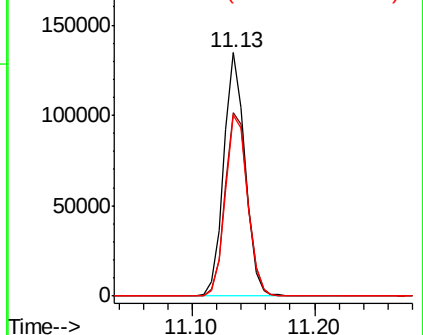
176 77.4 0.0 154.8

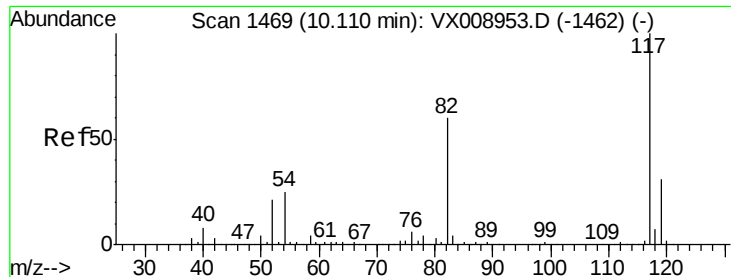


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

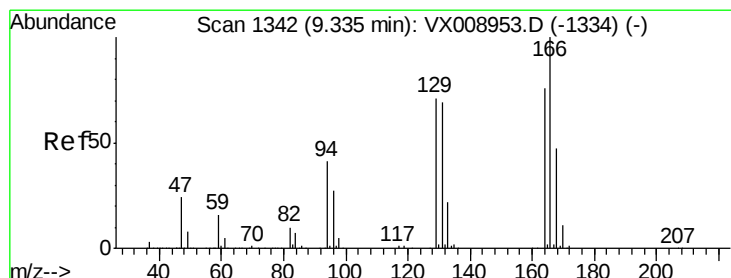
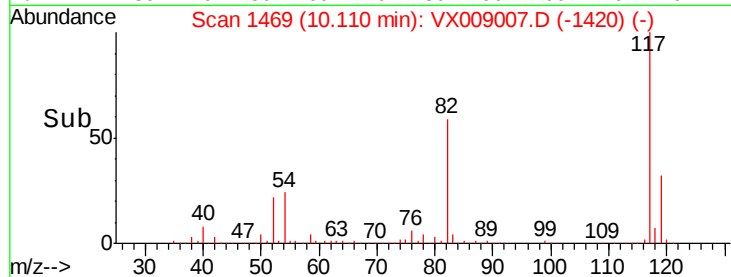
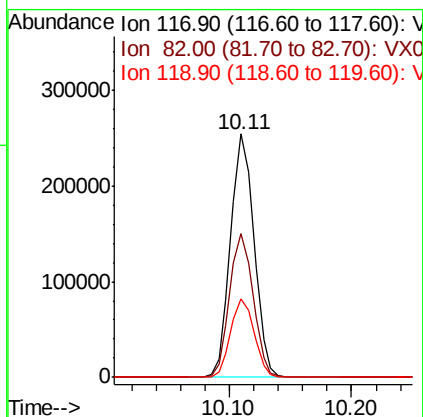
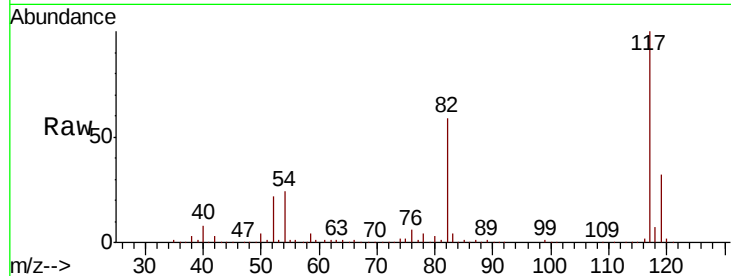




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009007.D
Acq: 17 Apr 2019 12:17

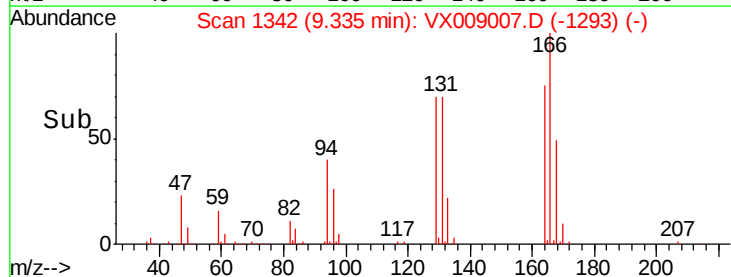
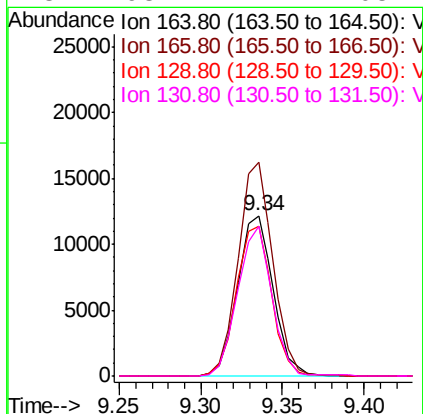
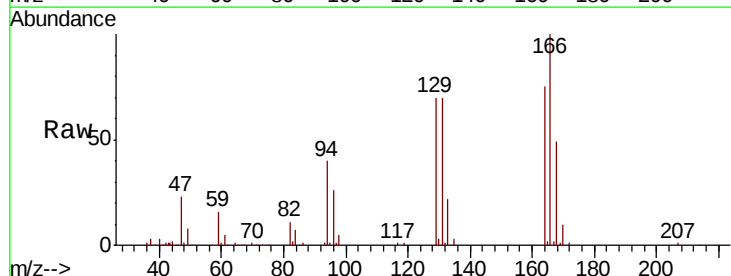
Instrument :
MSVOA_X
ClientSampleId :
KY038PS027-190415

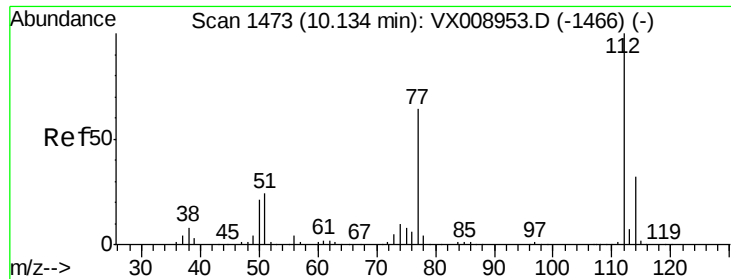
Tot Ion:117 Resp: 338658
Ion Ratio Lower Upper
117 100
82 59.2 48.2 72.4
119 32.1 25.0 37.6



#64
Tetrachloroethene
Concen: 7.182 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX009007.D
Acq: 17 Apr 2019 12:17

Tgt Ion:164 Resp: 18477
Ion Ratio Lower Upper
164 100
166 133.4 105.0 157.4
129 93.7 74.2 111.4
131 93.2 72.2 108.2

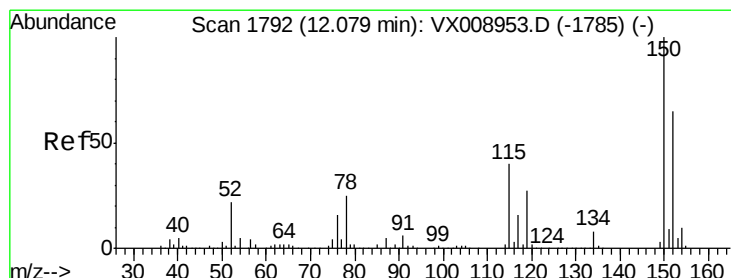
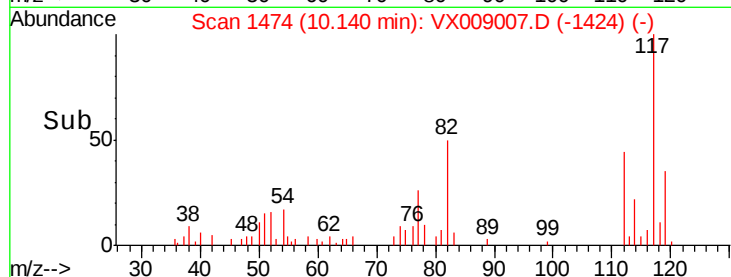
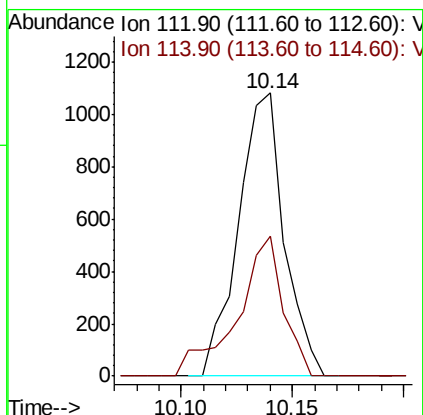
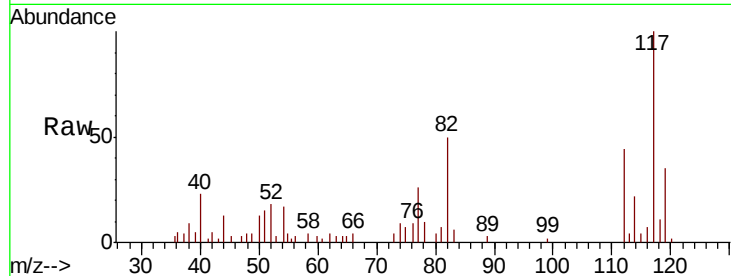




#65
Chlorobenzene
Concen: 0.217 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.01 min
Lab File: VX009007.D
Acq: 17 Apr 2019 12:17

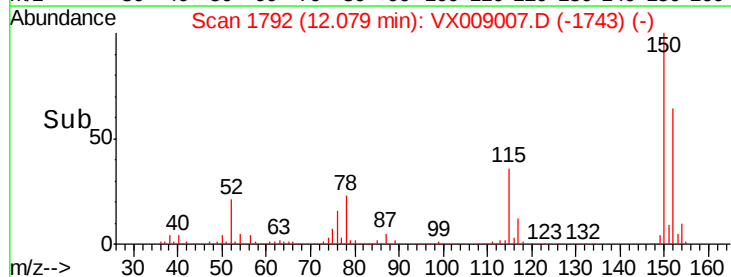
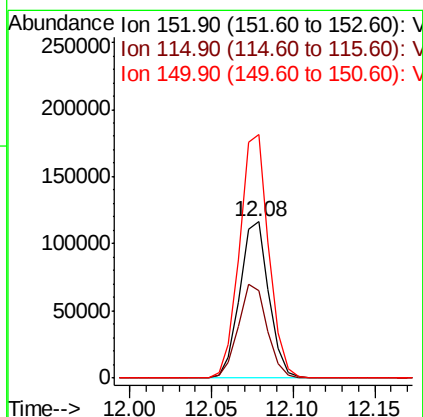
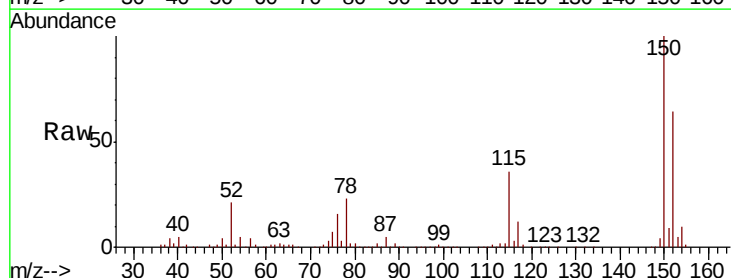
Instrument :
MSVOA_X
ClientSampleId :
KY038PS027-190415

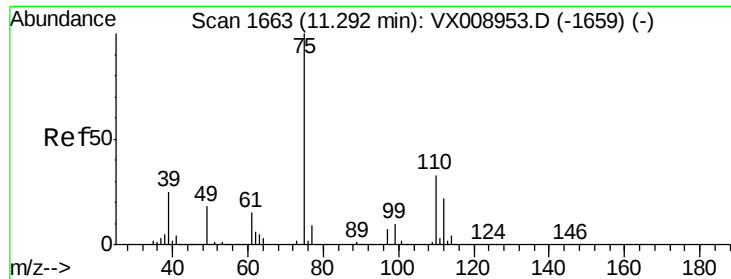
Tot Ion:112 Resp: 1551
Ion Ratio Lower Upper
112 100
114 49.6 25.4 38.0#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX009007.D
Acq: 17 Apr 2019 12:17

Tgt Ion:152 Resp: 144984
Ion Ratio Lower Upper
152 100
115 59.6 41.4 124.2
150 156.0 0.0 349.8

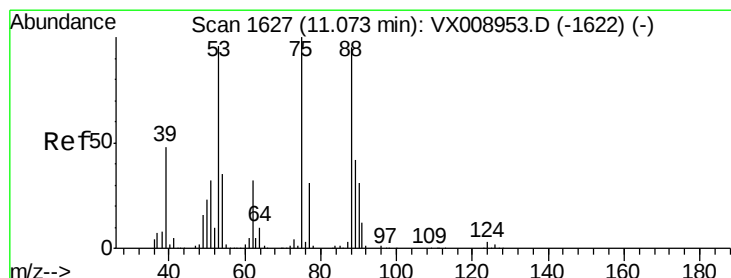
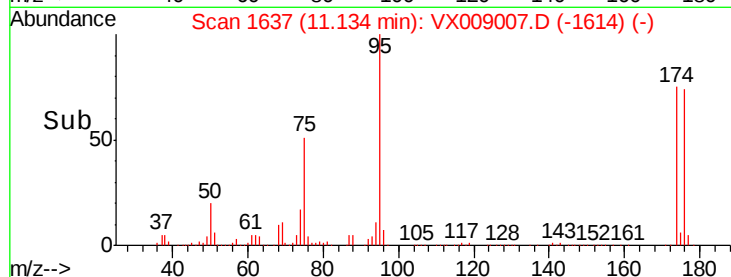
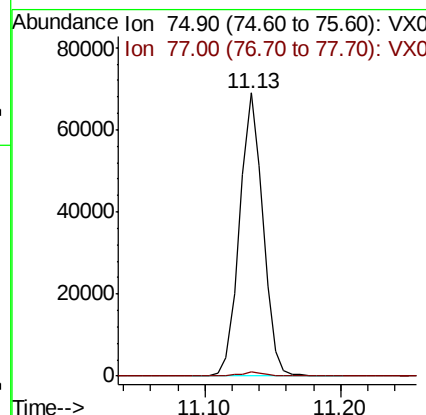
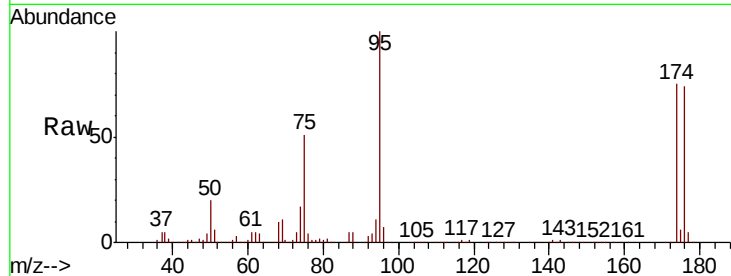




#76
 1,2,3-Trichloropropane
 Concen: 23.305 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX009007.D
 Acq: 17 Apr 2019 12:17

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS027-190415

Tot Ion: 75 Resp: 82506
 Ion Ratio Lower Upper
 75 100
 77 1.4 22.7 68.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 59.831 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX009007.D
 Acq: 17 Apr 2019 12:17

Tgt Ion: 75 Resp: 82506
 Ion Ratio Lower Upper
 75 100
 53 0.1 78.2 117.4#
 89 0.0 36.0 54.0#

