

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX092319\
 Data File : VX012610.D
 Acq On : 23 Sep 2019 17:30
 Operator : JC/SP
 Sample : K4930-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS038-190916RE

Quant Time: Sep 24 01:52:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 23 12:27:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	172460	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	294602	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	238275	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	85227	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	122269	48.69	ug/l	0.00
Spiked Amount			Recovery	=	97.38%	
35) Dibromofluoromethane	5.48	113	89893	51.24	ug/l	0.00
Spiked Amount			Recovery	=	102.48%	
50) Toluene-d8	8.71	98	342044	50.62	ug/l	0.00
Spiked Amount			Recovery	=	101.24%	
62) 4-Bromofluorobenzene	11.14	95	111836	42.10	ug/l	0.00
Spiked Amount			Recovery	=	84.20%	

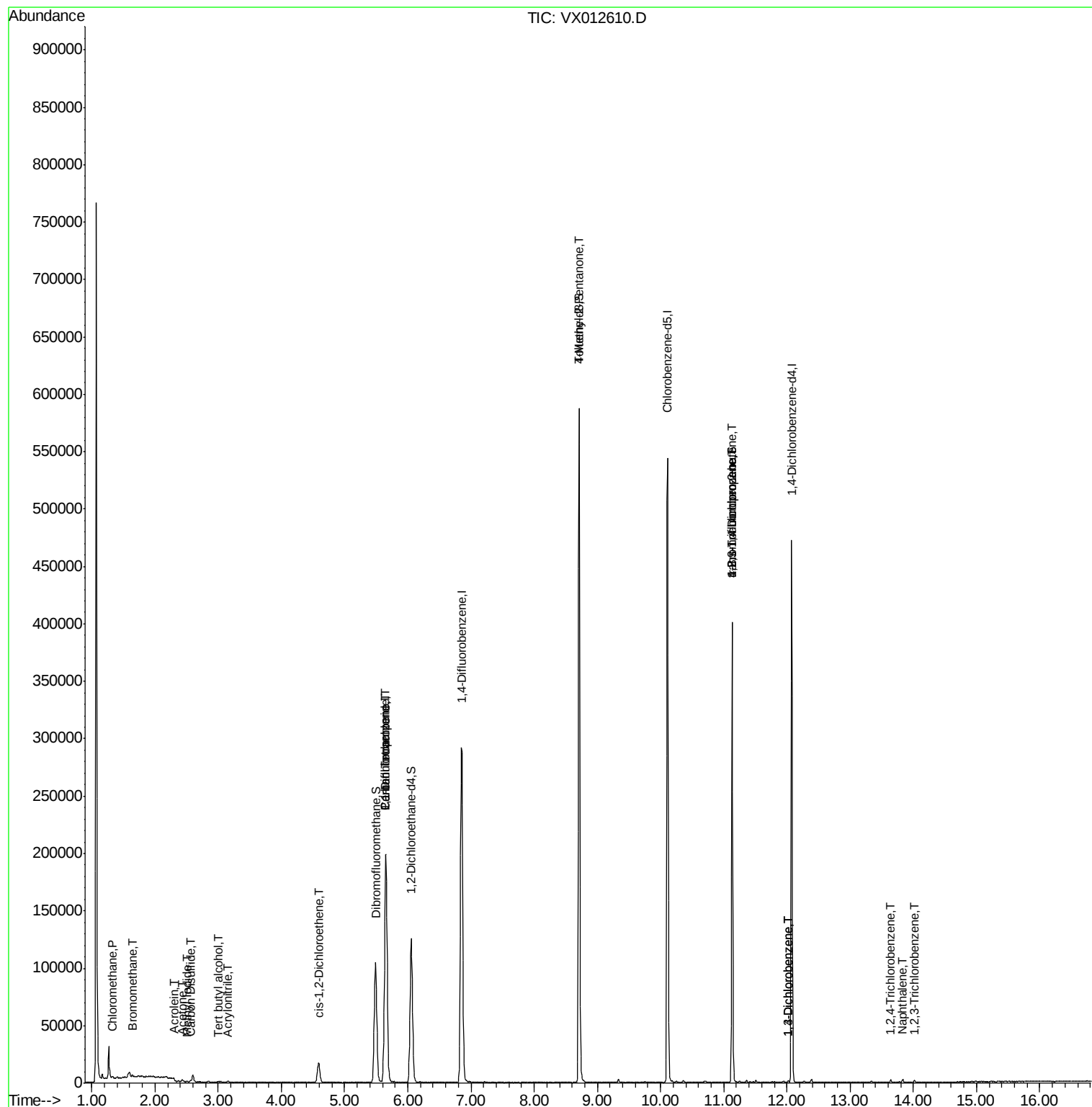
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	851	0.382	ug/l	92
5) Bromomethane	1.64	94	650	0.747	ug/l #	72
10) Methyl Iodide	2.50	142	537	5.196	ug/l #	94
11) Tert butyl alcohol	3.01	59	814	1.298	ug/l #	72
13) Acrolein	2.29	56	221	10.839	ug/l #	80
15) Acrylonitrile	3.14	53	303	0.238	ug/l #	34
16) Acetone	2.43	43	2310	1.737	ug/l	93
17) Carbon Disulfide	2.56	76	1558	0.300	ug/l #	38
27) cis-1,2-Dichloroethene	4.59	96	10699	4.489	ug/l	84
36) 1,1-Dichloropropene	5.65	75	15951	5.617	ug/l #	52
38) Carbon Tetrachloride	5.65	117	19154	6.640	ug/l #	16
51) 4-Methyl-2-Pentanone	8.72	43	1726	0.504	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	58029	25.740	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	58029	73.764	ug/l #	8
87) 1,3-Dichlorobenzene	12.03	146	777	0.275	ug/l	78
88) 1,4-Dichlorobenzene	12.03	146	777	0.272	ug/l	79
93) 1,2,4-Trichlorobenzene	13.64	180	541	0.313	ug/l	79
95) Naphthalene	13.83	128	1858	0.297	ug/l #	91
96) 1,2,3-Trichlorobenzene	14.02	180	488	0.282	ug/l	96

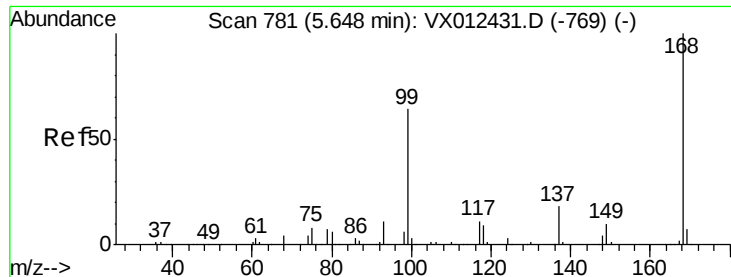
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012610.D

Acq: 23 Sep 2019 17:30

Instrument :

MSVOA_X

ClientSampleId :

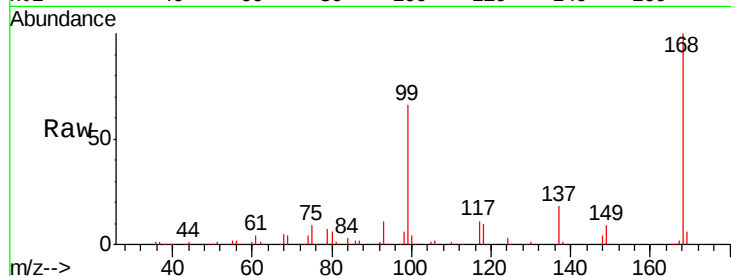
KY038PS038-190916RE

Tgt Ion:168 Resp: 172460

Ion Ratio Lower Upper

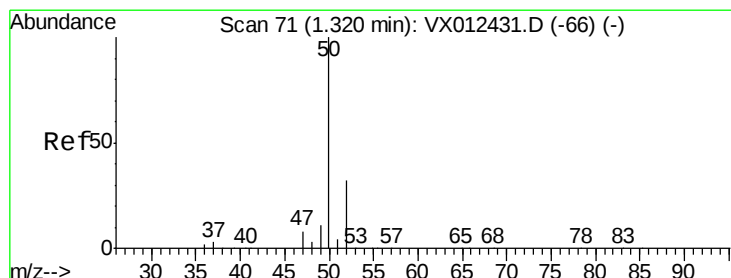
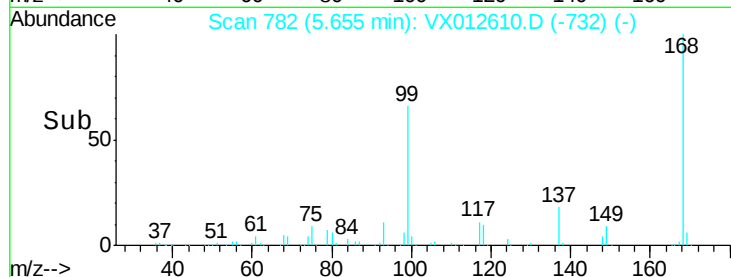
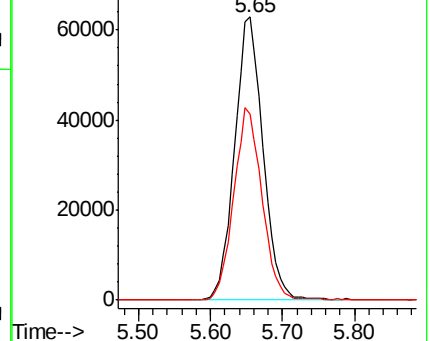
168 100

99 65.8 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.382 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012610.D

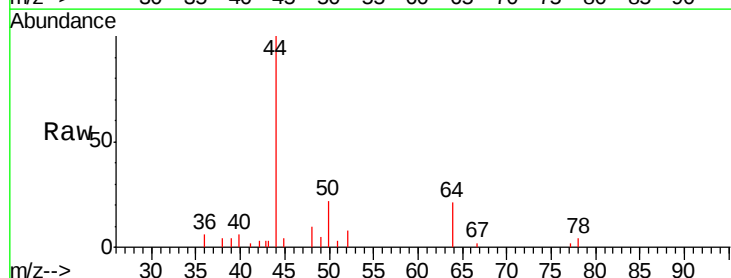
Acq: 23 Sep 2019 17:30

Tgt Ion: 50 Resp: 851

Ion Ratio Lower Upper

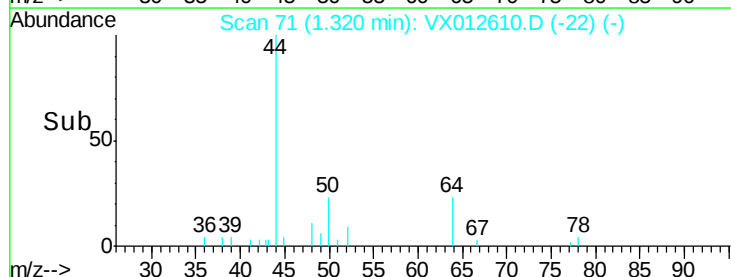
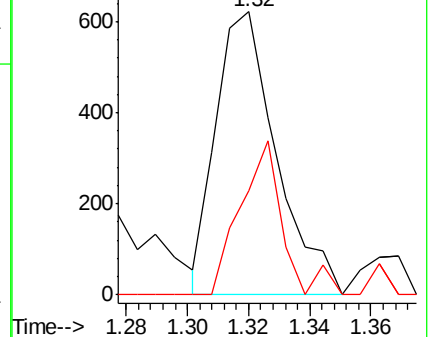
50 100

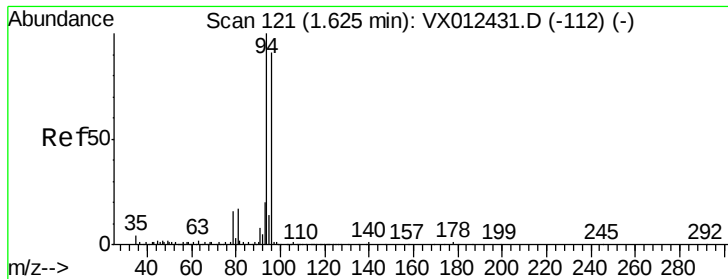
52 36.7 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.747 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX012610.D

Acq: 23 Sep 2019 17:30

Instrument :

MSVOA_X

ClientSampleId :

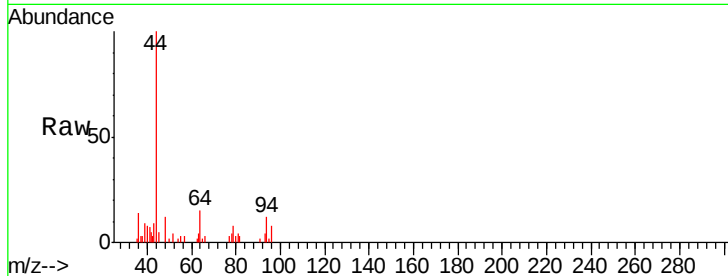
KY038PS038-190916RE

Tgt Ion: 94 Resp: 650

Ion Ratio Lower Upper

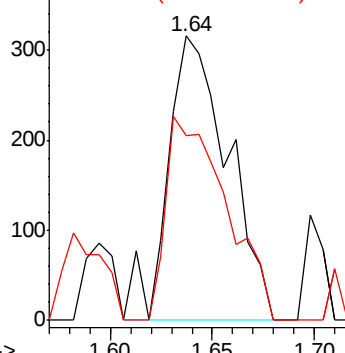
94 100

96 64.9 72.8 109.2#

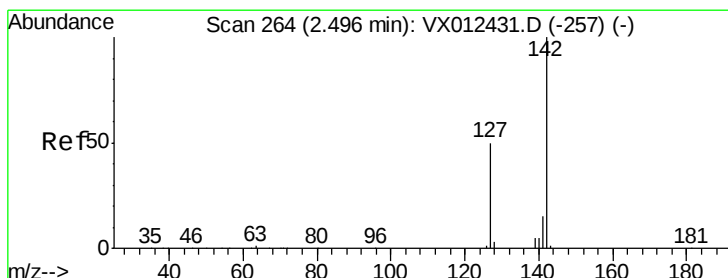
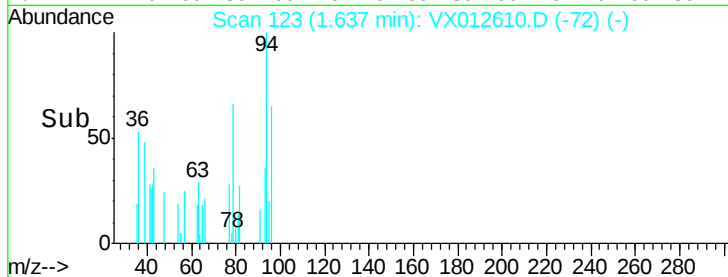


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#10

Methyl Iodide

Concen: 5.196 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX012610.D

Acq: 23 Sep 2019 17:30

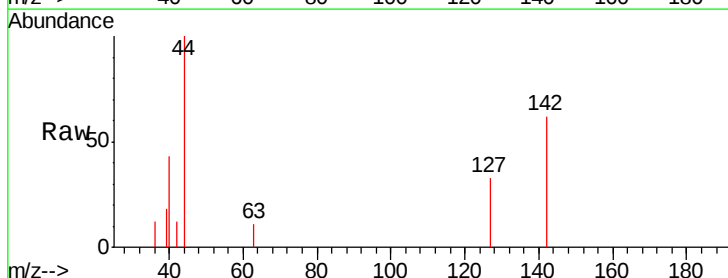
Tgt Ion: 142 Resp: 537

Ion Ratio Lower Upper

142 100

127 47.3 40.8 61.2

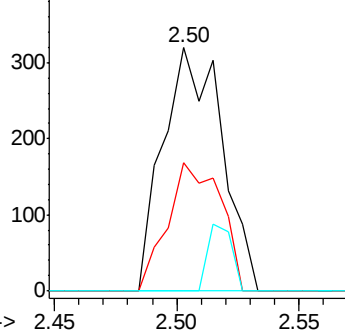
141 11.2 12.1 18.1#



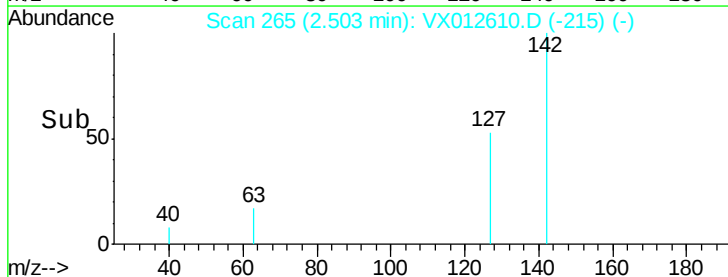
Abundance Ion 141.80 (141.50 to 142.50): V

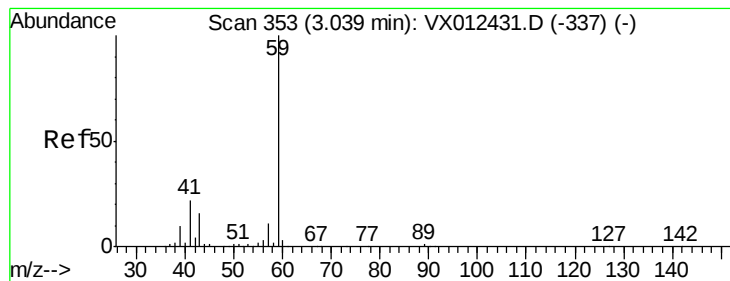
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->





#11

Tert butyl alcohol

Concen: 1.298 ug/l

RT: 3.01 min Scan# 349

Delta R.T. -0.02 min

Lab File: VX012610.D

Acq: 23 Sep 2019 17:30

Instrument :

MSVOA_X

ClientSampleId :

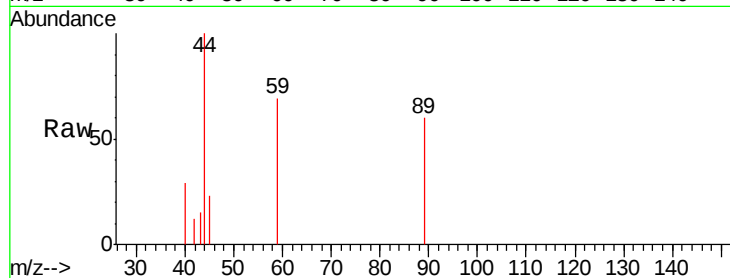
KY038PS038-190916RE

Tgt Ion: 59 Resp: 814

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.01

300

200

100

0

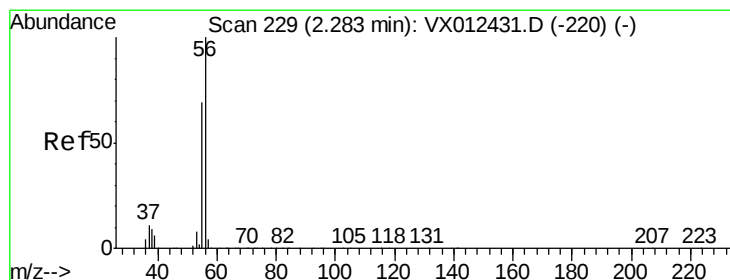
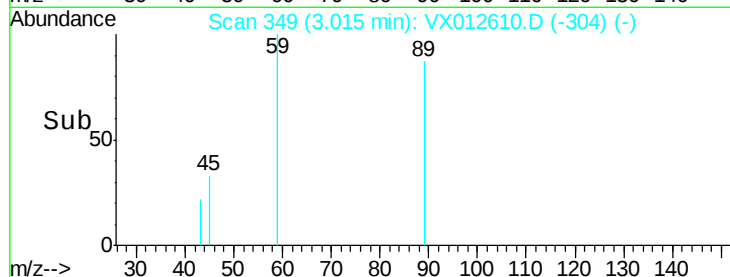
Time-->

2.95

3.00

3.05

3.10



#13

Acrolein

Concen: 10.839 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX012610.D

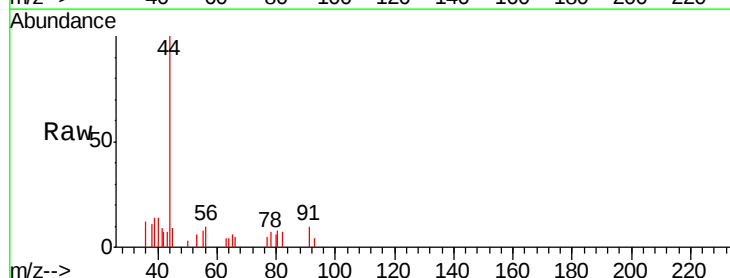
Acq: 23 Sep 2019 17:30

Tgt Ion: 56 Resp: 221

Ion Ratio Lower Upper

56 100

55 53.4 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.29

200

150

100

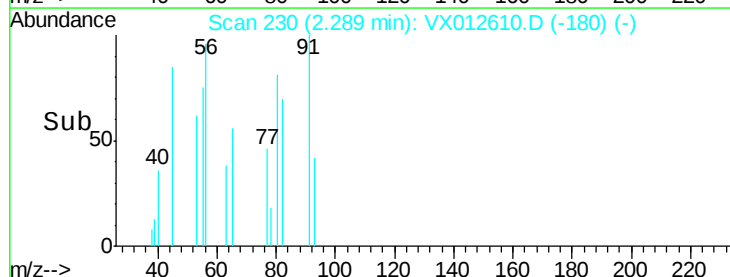
50

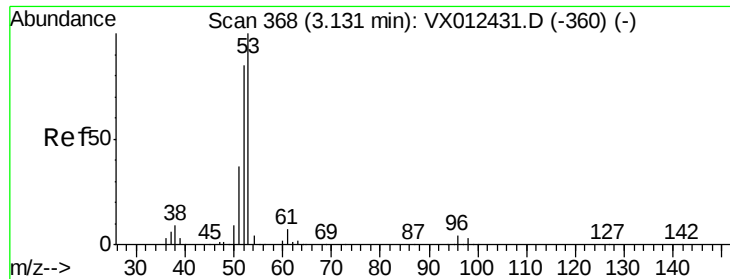
0

Time-->

2.25

2.30





#15

Acrylonitrile

Concen: 0.238 ug/l

RT: 3.14 min Scan# 369

Delta R.T. 0.01 min

Lab File: VX012610.D

Acq: 23 Sep 2019 17:30

Instrument :

MSVOA_X

ClientSampleId :

KY038PS038-190916RE

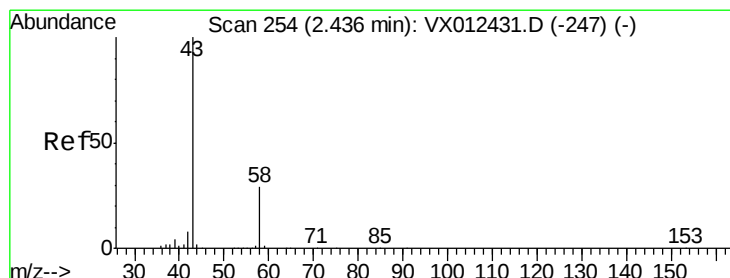
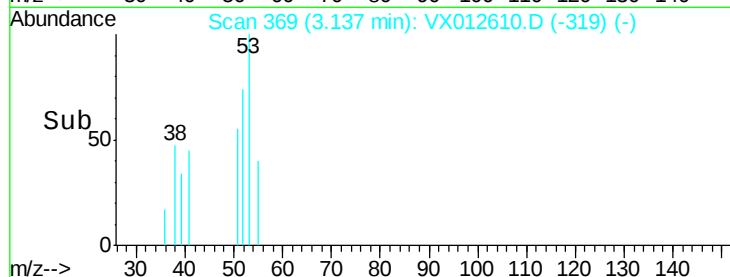
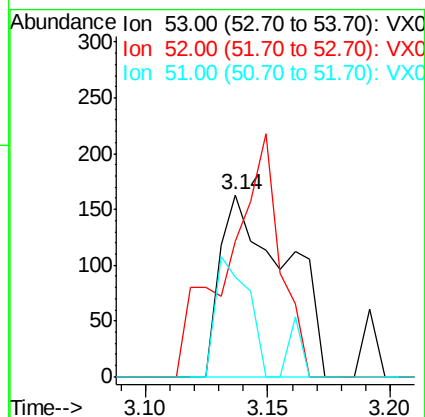
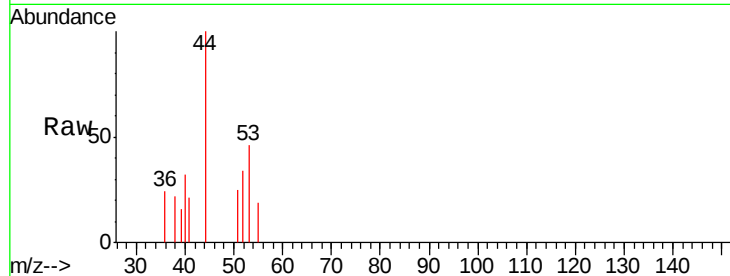
Tgt Ion: 53 Resp: 303

Ion Ratio Lower Upper

53 100

52 0.0 67.0 100.4#

51 33.0 29.6 44.4



#16

Acetone

Concen: 1.737 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012610.D

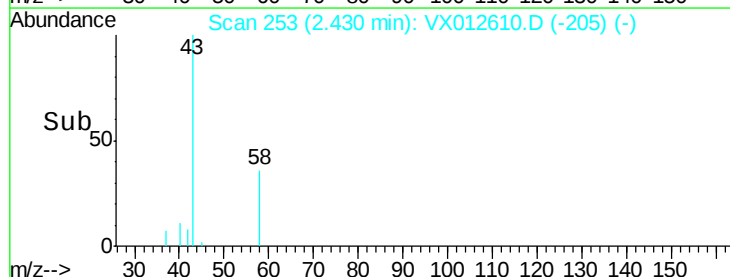
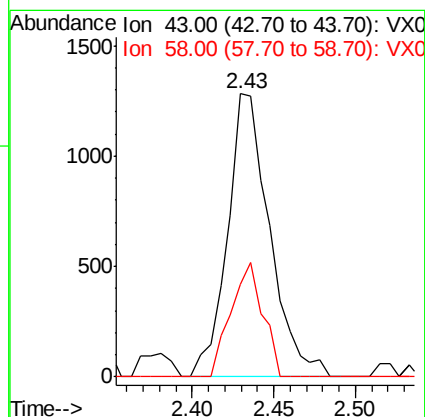
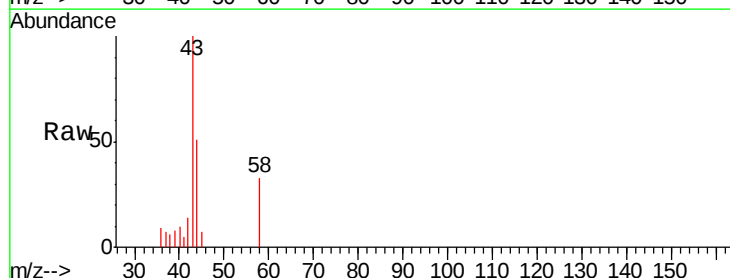
Acq: 23 Sep 2019 17:30

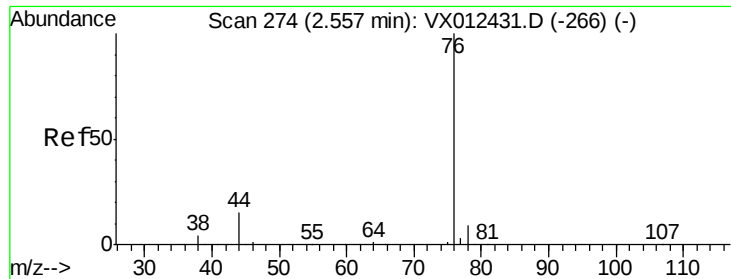
Tgt Ion: 43 Resp: 2310

Ion Ratio Lower Upper

43 100

58 32.9 23.3 34.9

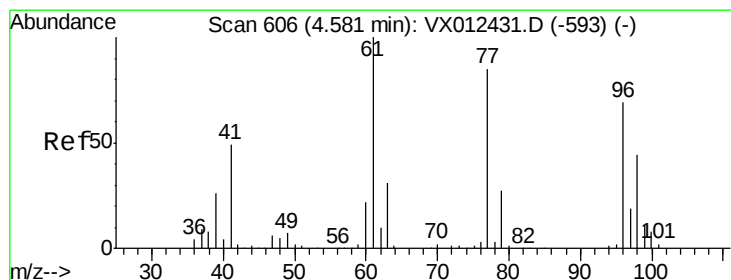
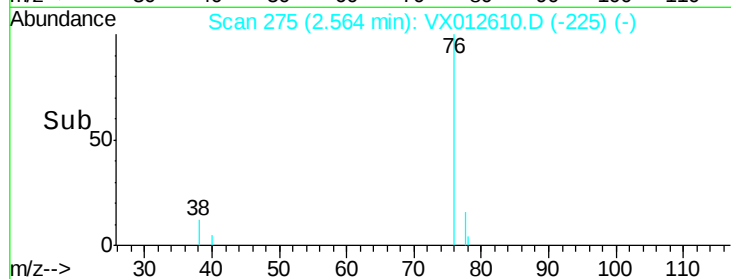
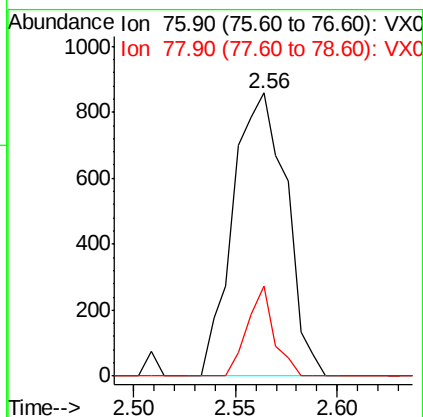
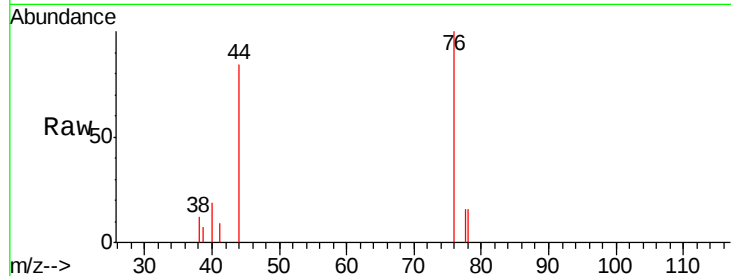




#17
Carbon Disulfide
Concen: 0.300 ug/l
RT: 2.56 min Scan# 275
Delta R.T. 0.01 min
Lab File: VX012610.D
Acq: 23 Sep 2019 17:30

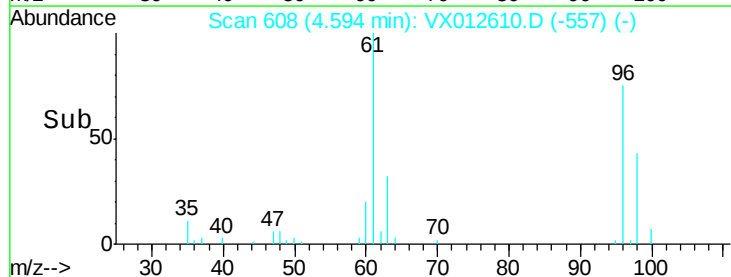
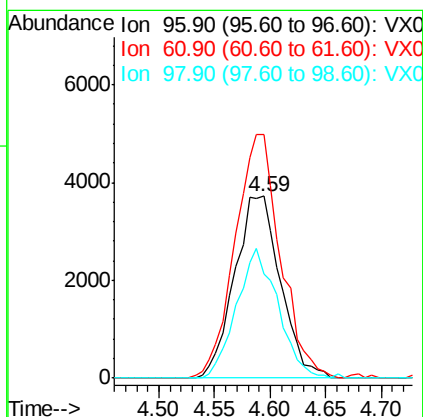
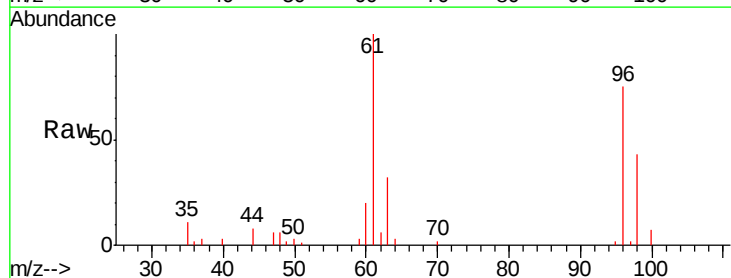
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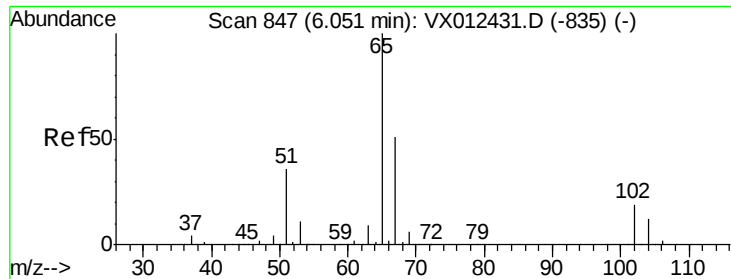
Tgt Ion: 76 Resp: 1558
Ion Ratio Lower Upper
76 100
78 31.7 7.3 10.9#



#27
cis-1,2-Dichloroethene
Concen: 4.489 ug/l
RT: 4.59 min Scan# 608
Delta R.T. 0.01 min
Lab File: VX012610.D
Acq: 23 Sep 2019 17:30

Tgt Ion: 96 Resp: 10699
Ion Ratio Lower Upper
96 100
61 131.7 0.0 319.4
98 64.0 0.0 130.6

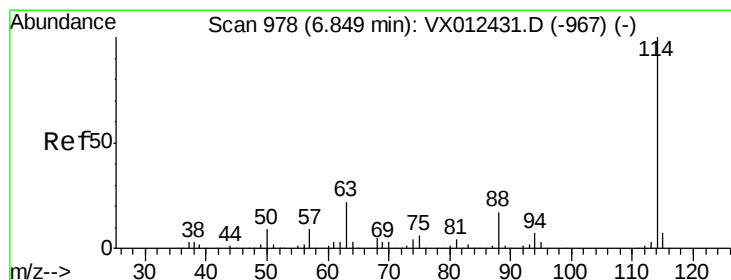
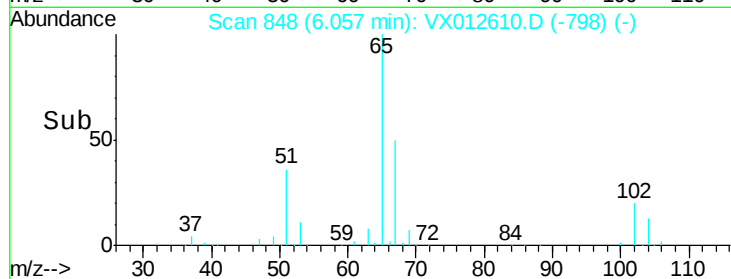
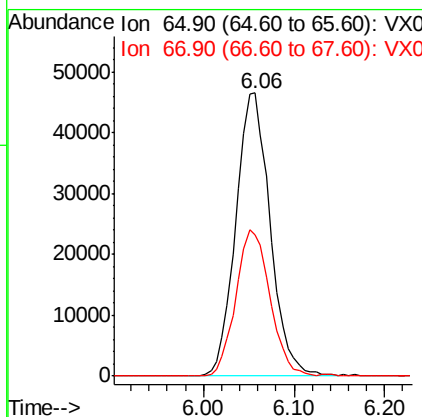
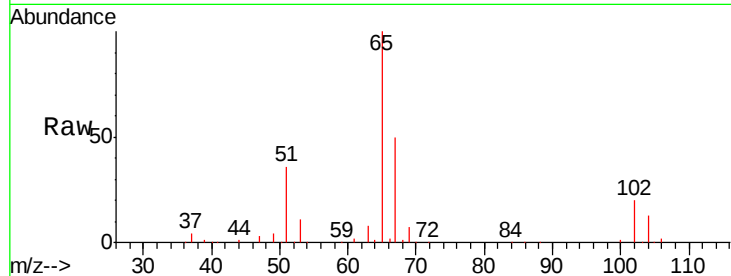




#33
 1,2-Dichloroethane-d4
 Concen: 48.687 ug/l
 RT: 6.06 min Scan# 848
 Delta R.T. 0.01 min
 Lab File: VX012610.D
 Acq: 23 Sep 2019 17:30

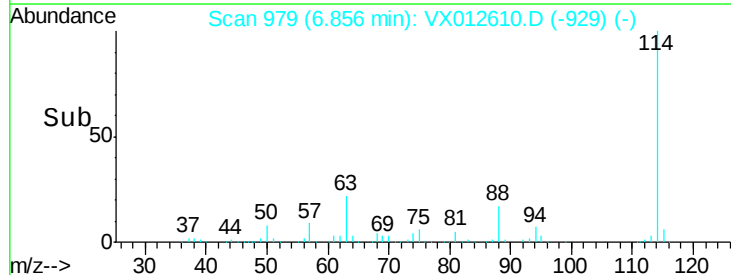
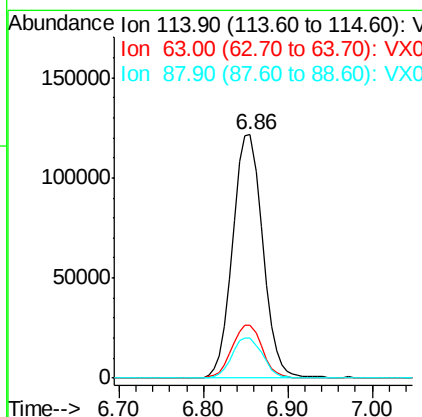
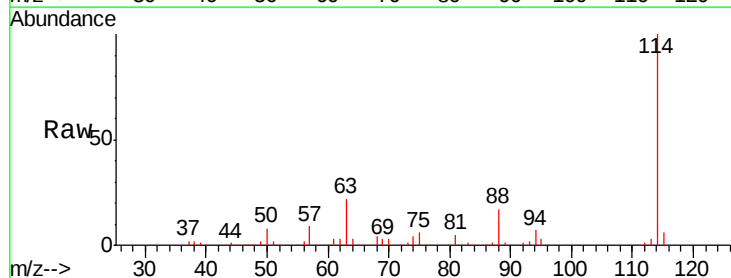
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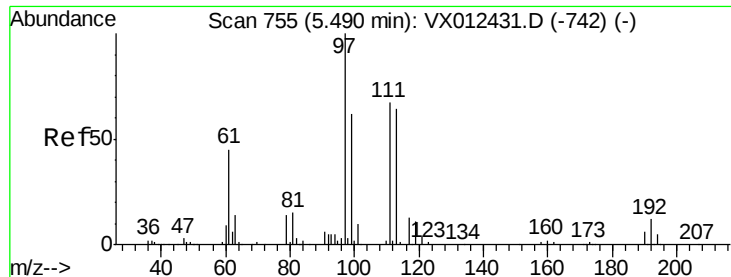
Tgt Ion: 65 Resp: 122269
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 101.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 979
 Delta R.T. 0.01 min
 Lab File: VX012610.D
 Acq: 23 Sep 2019 17:30

Tgt Ion: 114 Resp: 294602
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 43.2
 88 16.7 0.0 33.2





#35

Dibromofluoromethane

Concen: 51.236 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX012610.D

Acq: 23 Sep 2019 17:30

Instrument :

MSVOA_X

ClientSampleId :

KY038PS038-190916RE

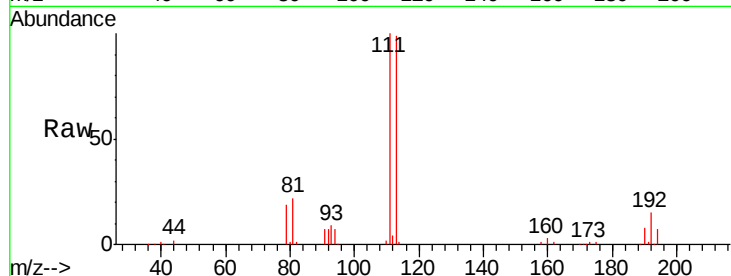
Tgt Ion:113 Resp: 89893

Ion Ratio Lower Upper

113 100

111 101.4 83.4 125.2

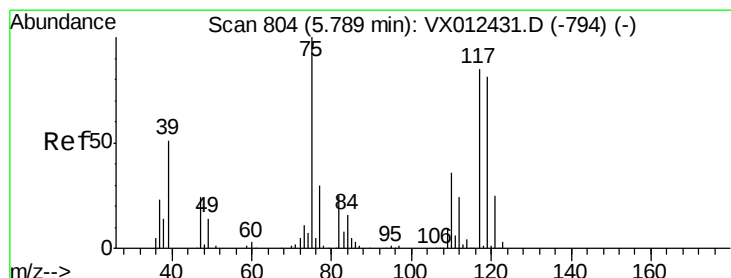
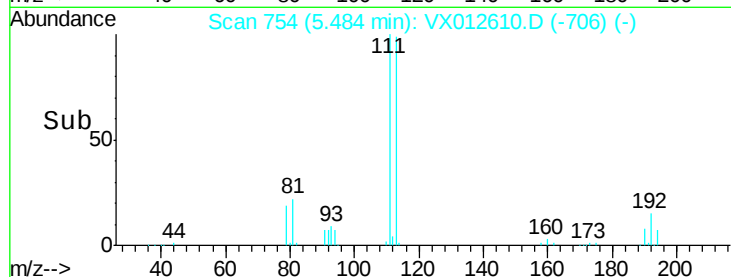
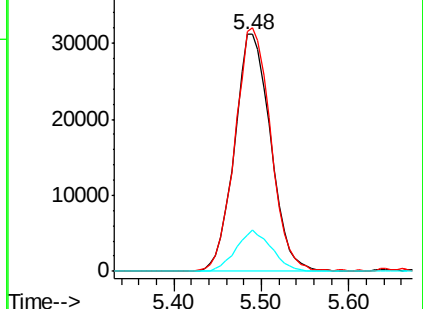
192 16.9 14.4 21.6



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: 5.617 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012610.D

Acq: 23 Sep 2019 17:30

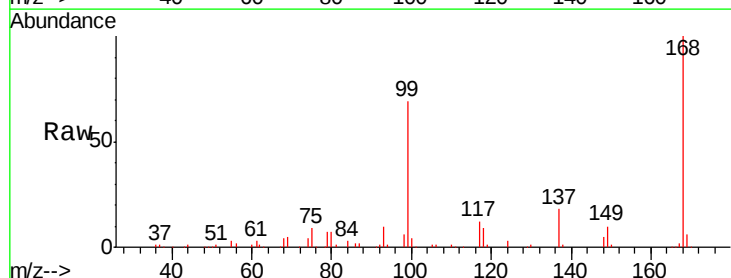
Tgt Ion: 75 Resp: 15951

Ion Ratio Lower Upper

75 100

110 10.0 16.7 50.0#

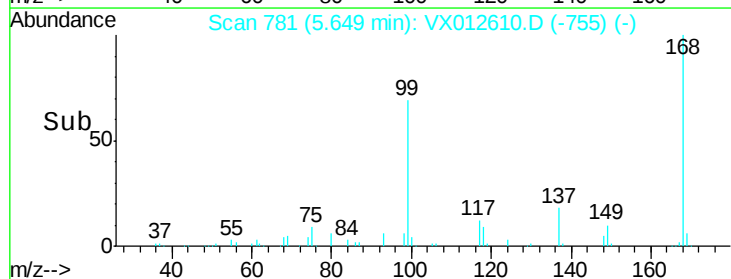
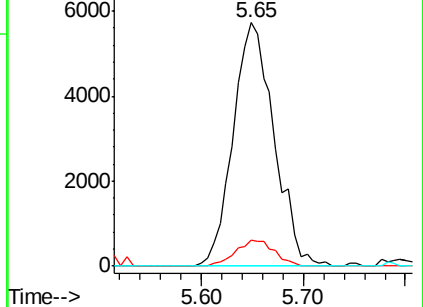
77 0.0 24.2 36.2#

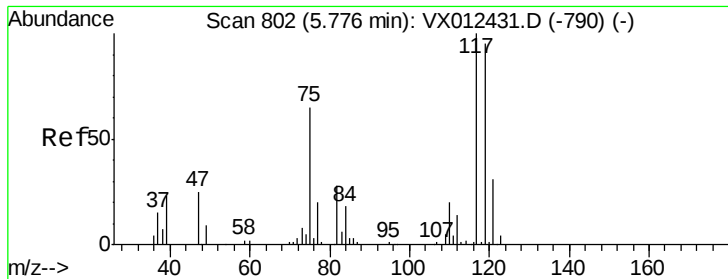


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.640 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX012610.D

Acq: 23 Sep 2019 17:30

Instrument :

MSVOA_X

ClientSampleId :

KY038PS038-190916RE

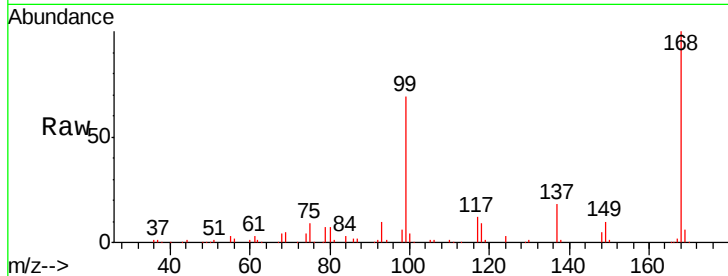
Tgt Ion:117 Resp: 19154

Ion Ratio Lower Upper

117 100

119 4.5 75.7 113.5#

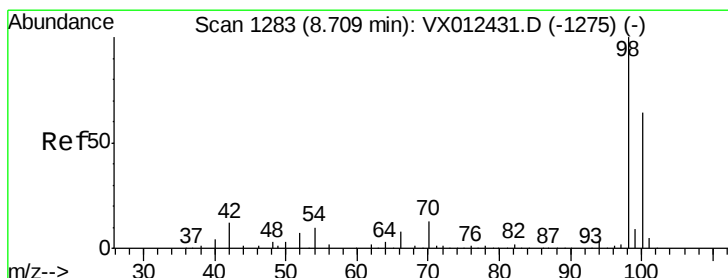
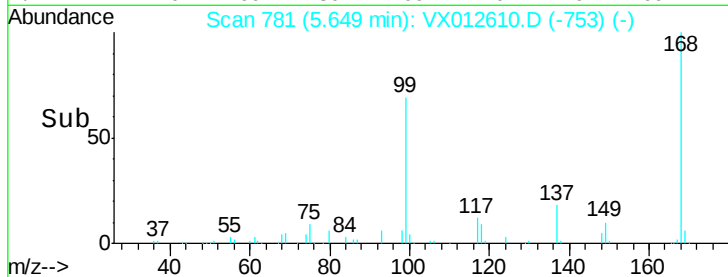
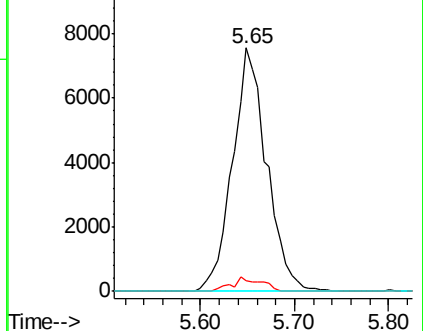
121 0.0 24.2 36.4#



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



#50

Toluene-d8

Concen: 50.624 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012610.D

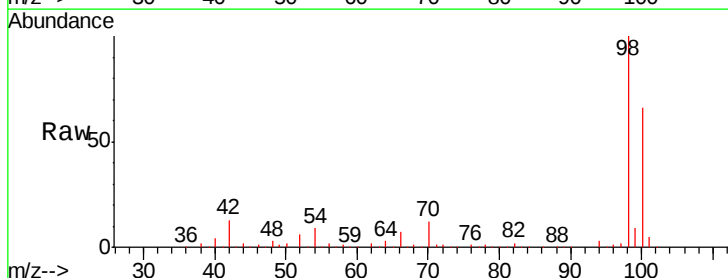
Acq: 23 Sep 2019 17:30

Tgt Ion: 98 Resp: 342044

Ion Ratio Lower Upper

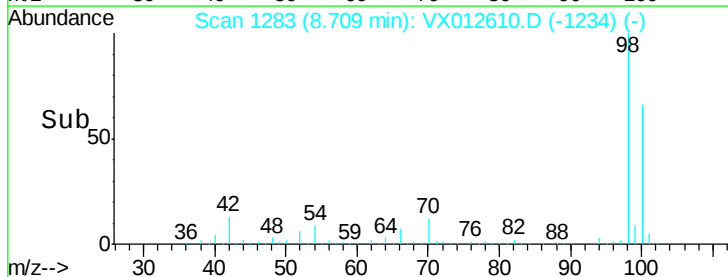
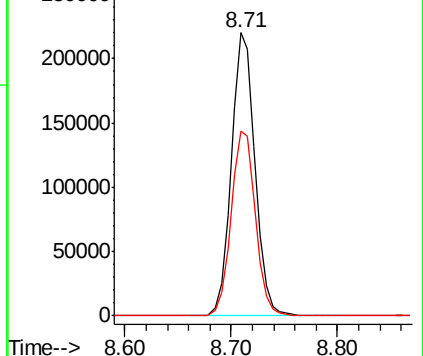
98 100

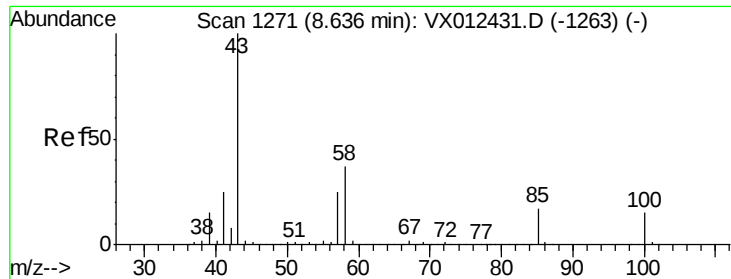
100 67.4 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

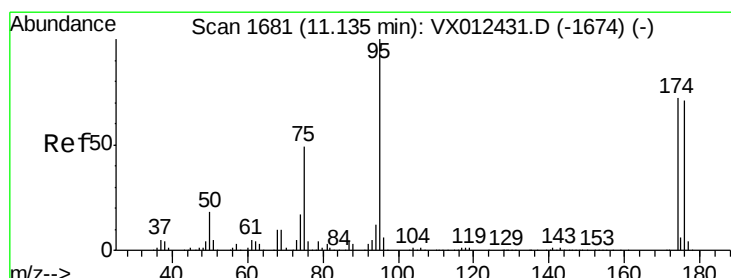
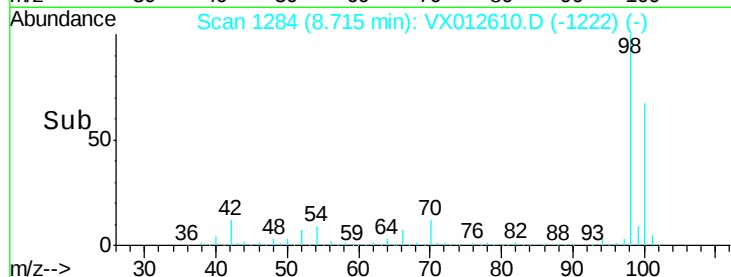
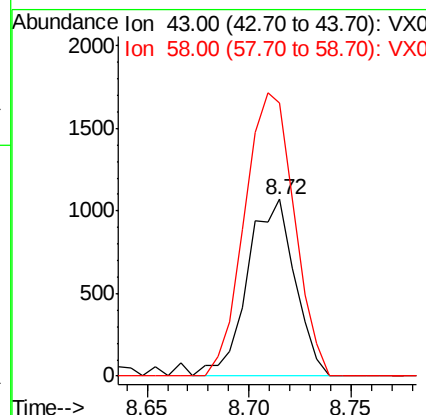
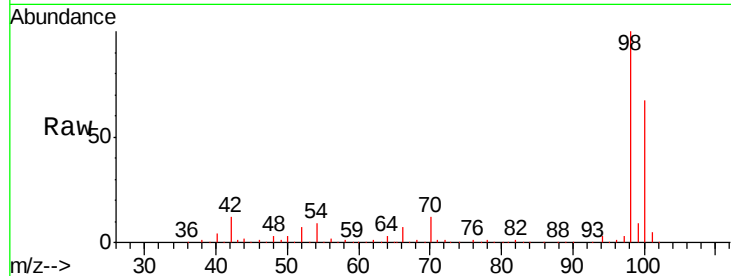




#51
 4-Methyl-2-Pentanone
 Concen: 0.504 ug/l
 RT: 8.72 min Scan# 1284
 Delta R.T. 0.08 min
 Lab File: VX012610.D
 Acq: 23 Sep 2019 17:30

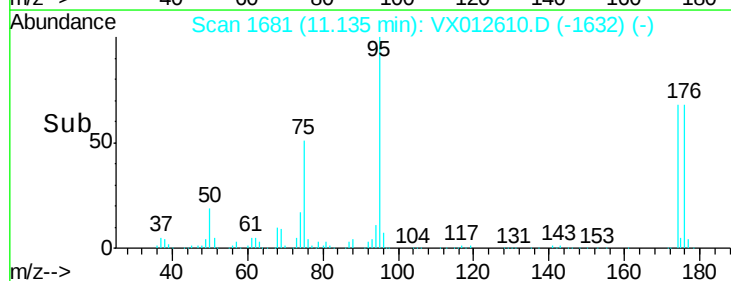
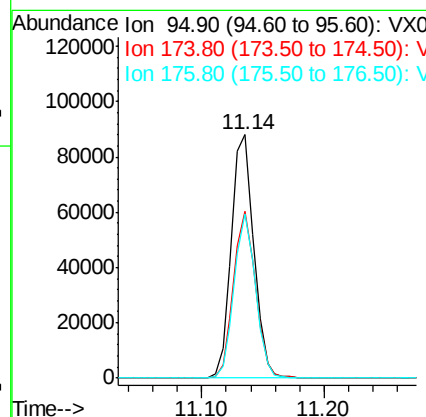
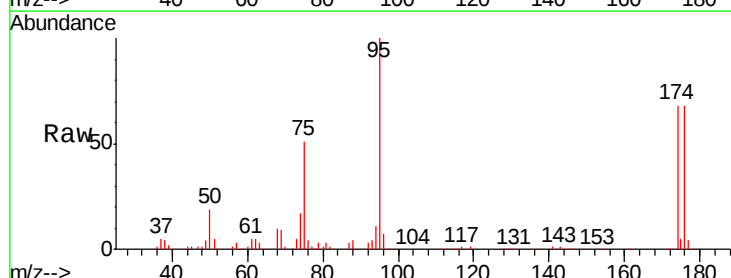
Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS038-190916RE

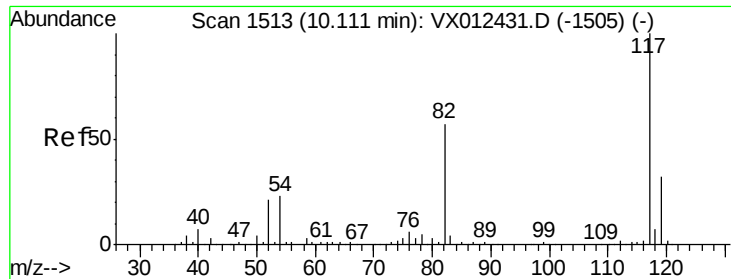
Tgt Ion: 43 Resp: 1726
 Ion Ratio Lower Upper
 43 100
 58 168.3 29.8 44.6#



#62
 4-Bromofluorobenzene
 Concen: 42.095 ug/l
 RT: 11.14 min Scan# 1681
 Delta R.T. 0.00 min
 Lab File: VX012610.D
 Acq: 23 Sep 2019 17:30

Tgt Ion: 95 Resp: 111836
 Ion Ratio Lower Upper
 95 100
 174 66.9 0.0 140.0
 176 64.3 0.0 135.4

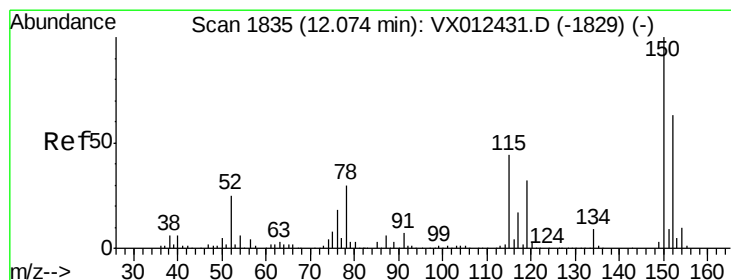
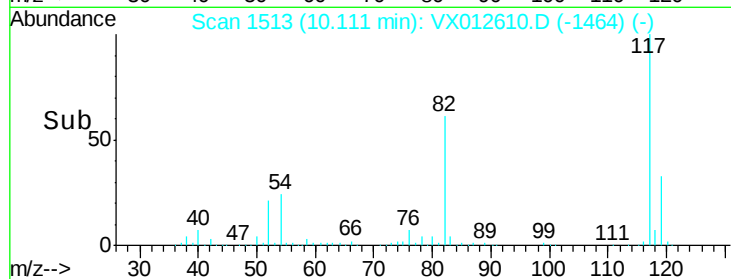
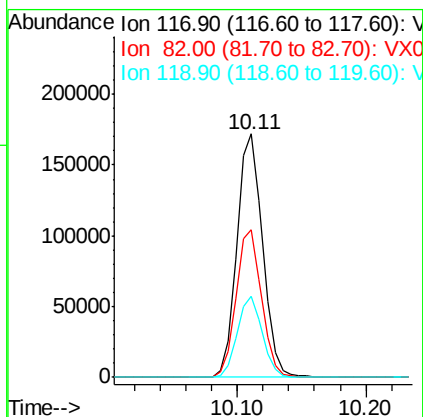
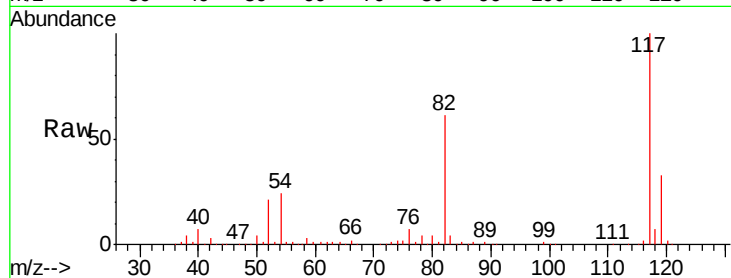




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012610.D
Acq: 23 Sep 2019 17:30

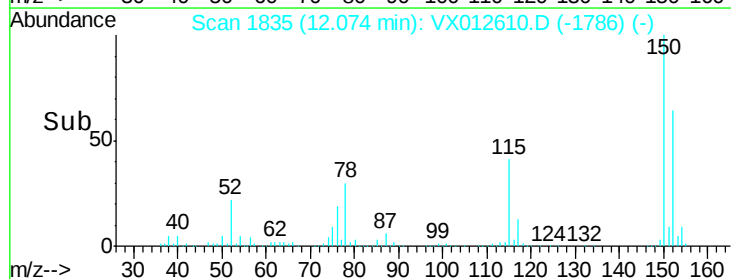
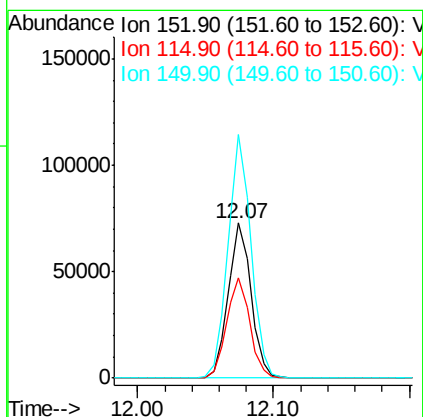
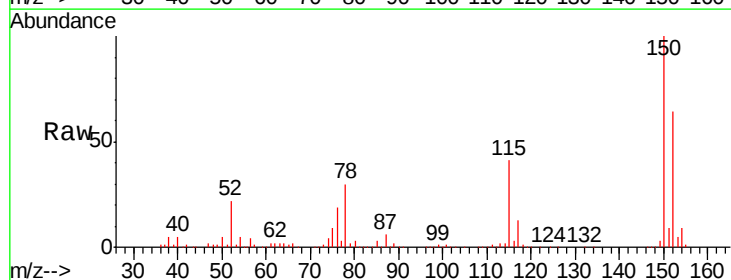
Instrument :
MSVOA_X
ClientSampleId :
KY038PS038-190916RE

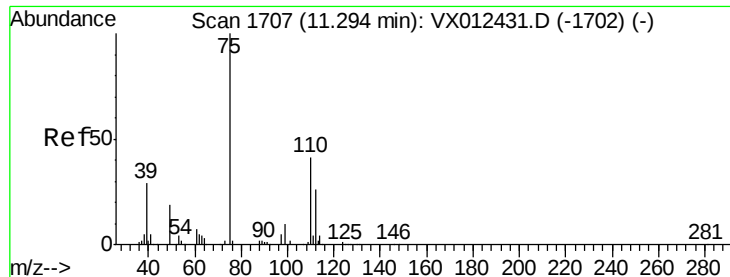
Tgt Ion:117 Resp: 238275
Ion Ratio Lower Upper
117 100
82 60.8 45.9 68.9
119 33.4 25.3 37.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX012610.D
Acq: 23 Sep 2019 17:30

Tgt Ion:152 Resp: 85227
Ion Ratio Lower Upper
152 100
115 65.3 44.1 132.3
150 157.4 0.0 343.8

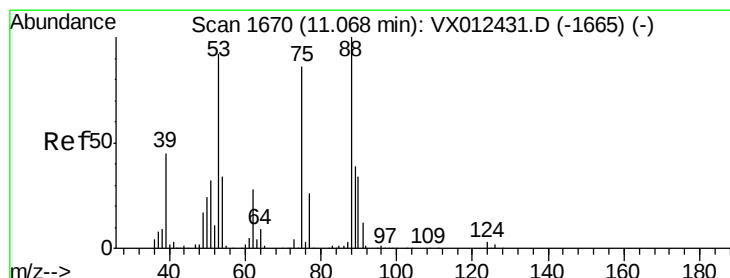
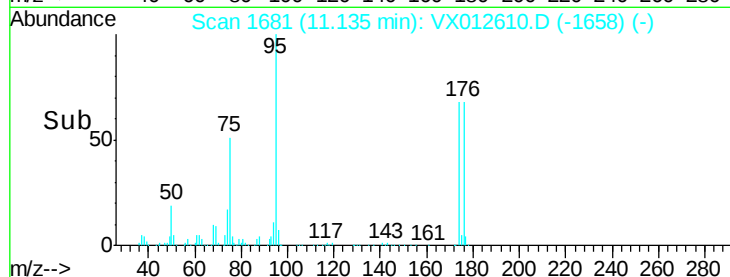
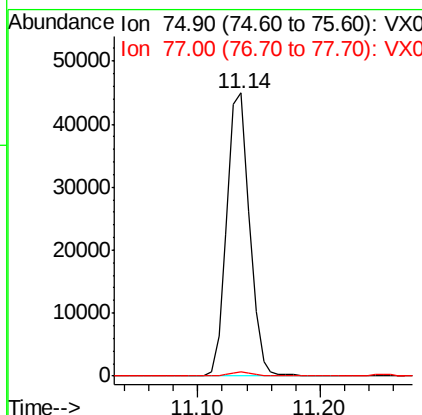
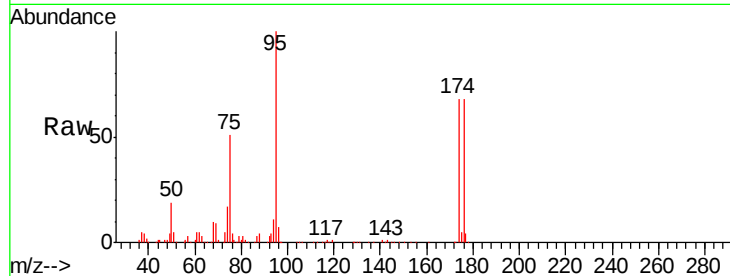




#76
 1,2,3-Trichloropropane
 Concen: 25.740 ug/l
 RT: 11.14 min Scan# 1681
 Delta R.T. -0.16 min
 Lab File: VX012610.D
 Acq: 23 Sep 2019 17:30

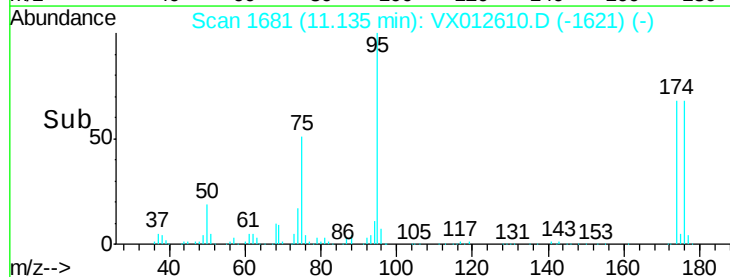
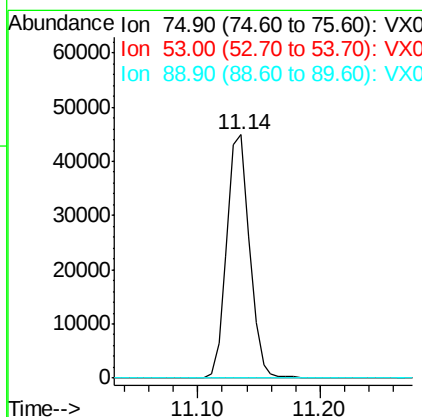
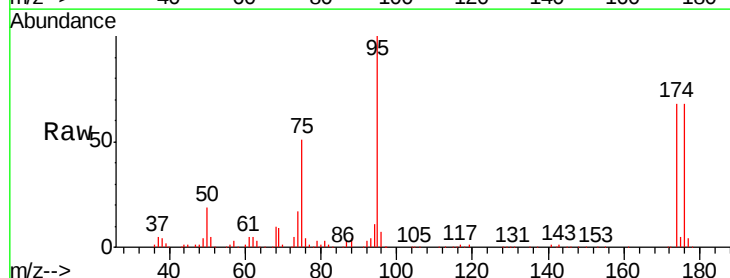
Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS038-190916RE

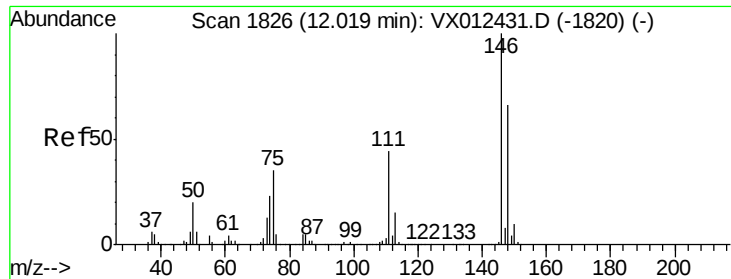
Tgt Ion: 75 Resp: 58029
 Ion Ratio Lower Upper
 75 100
 77 1.5 19.7 59.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 73.764 ug/l
 RT: 11.14 min Scan# 1681
 Delta R.T. 0.07 min
 Lab File: VX012610.D
 Acq: 23 Sep 2019 17:30

Tgt Ion: 75 Resp: 58029
 Ion Ratio Lower Upper
 75 100
 53 0.0 83.6 125.4#
 89 0.0 36.3 54.5#





#87

1,3-Dichlorobenzene

Concen: 0.275 ug/l

RT: 12.03 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VX012610.D

Acq: 23 Sep 2019 17:30

Instrument :

MSVOA_X

ClientSampleId :

KY038PS038-190916RE

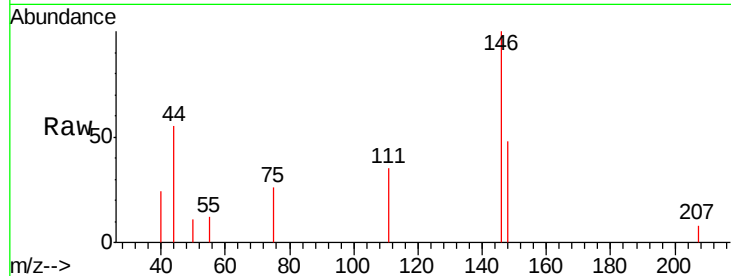
Tgt Ion:146 Resp: 777

Ion Ratio Lower Upper

146 100

111 33.8 21.3 64.0

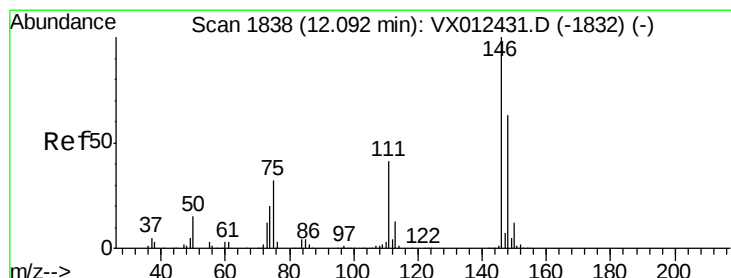
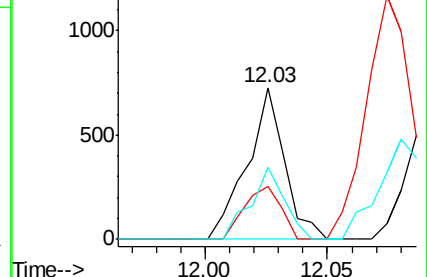
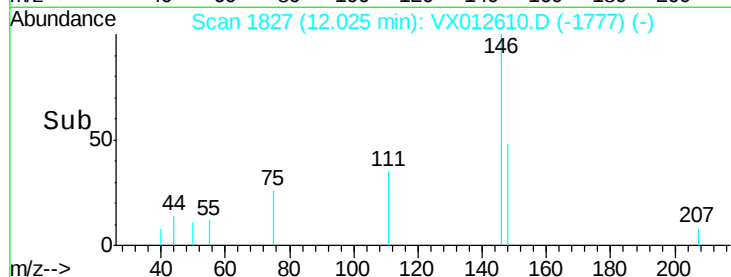
148 43.5 32.4 97.2



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 0.272 ug/l

RT: 12.03 min Scan# 1827

Delta R.T. -0.07 min

Lab File: VX012610.D

Acq: 23 Sep 2019 17:30

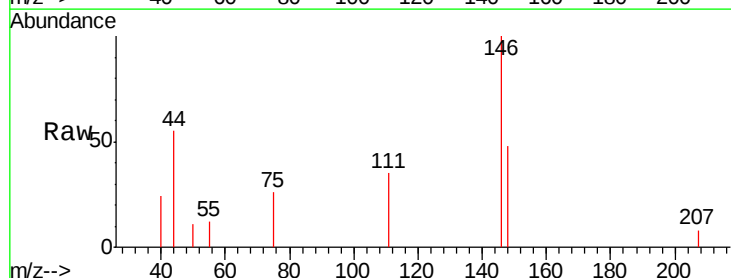
Tgt Ion:146 Resp: 777

Ion Ratio Lower Upper

146 100

111 33.8 21.1 63.3

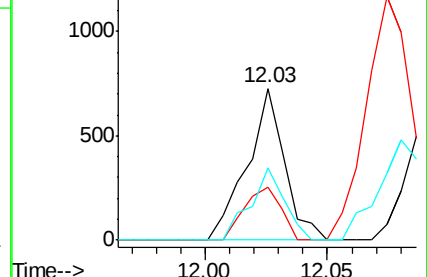
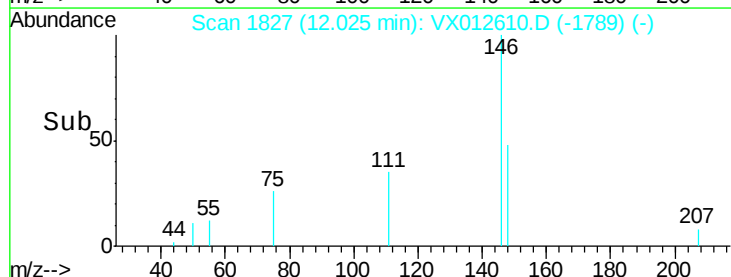
148 43.5 32.1 96.5

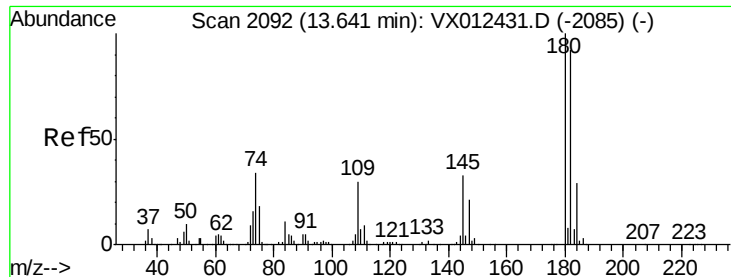


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

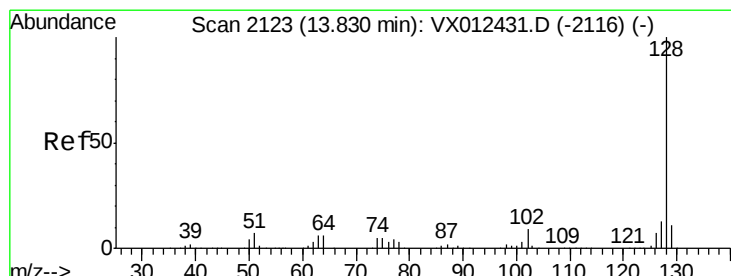
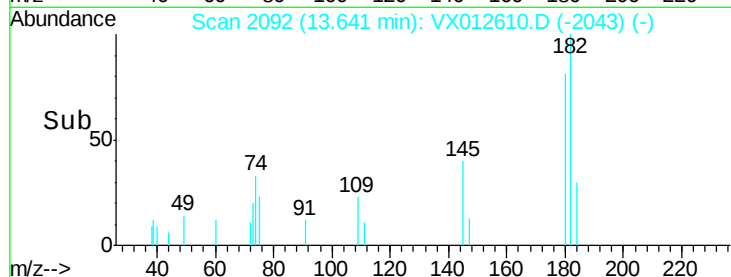
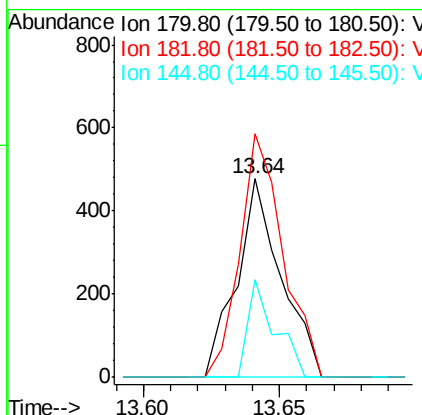
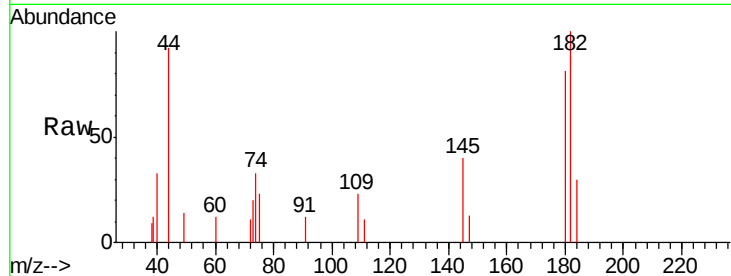




#93
 1,2,4-Trichlorobenzene
 Concen: 0.313 ug/l
 RT: 13.64 min Scan# 2092
 Delta R.T. 0.00 min
 Lab File: VX012610.D
 Acq: 23 Sep 2019 17:30

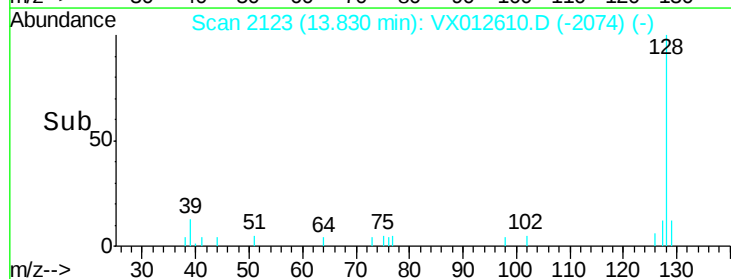
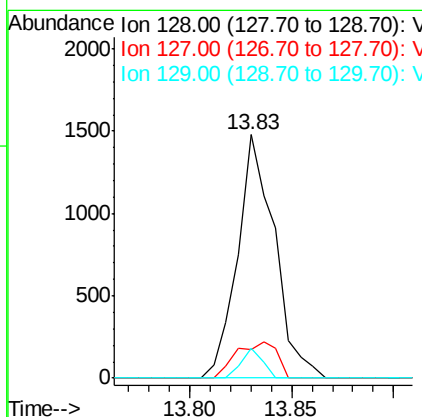
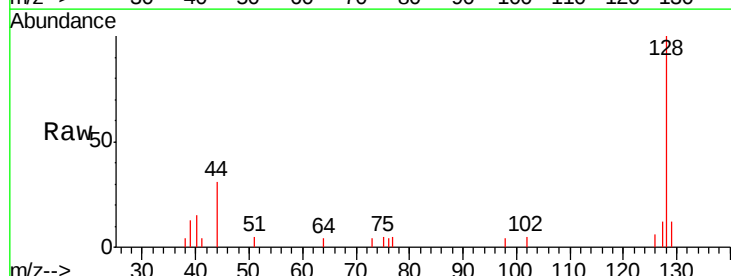
Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS038-190916RE

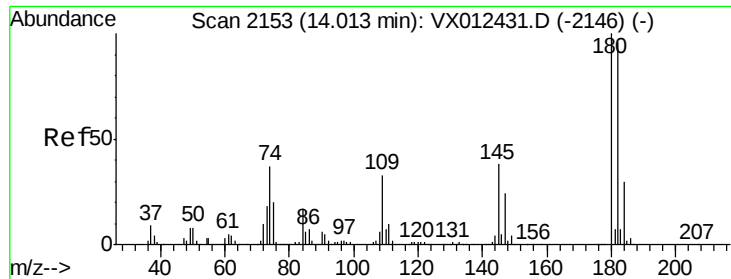
Tgt Ion:180 Resp: 541
 Ion Ratio Lower Upper
 180 100
 182 118.7 47.0 141.0
 145 29.9 16.8 50.4



#95
 Naphthalene
 Concen: 0.297 ug/l
 RT: 13.83 min Scan# 2123
 Delta R.T. 0.00 min
 Lab File: VX012610.D
 Acq: 23 Sep 2019 17:30

Tgt Ion:128 Resp: 1858
 Ion Ratio Lower Upper
 128 100
 127 16.1 10.2 15.4#
 129 7.0 8.8 13.2#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.282 ug/l
 RT: 14.02 min Scan# 2154
 Delta R.T. 0.01 min
 Lab File: VX012610.D
 Acq: 23 Sep 2019 17:30

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS038-190916RE

Tgt Ion	Ratio	Lower	Upper
180	100		
182	91.6	47.1	141.3
145	31.8	18.0	54.0

