

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091118\
 Data File : VX004475.D
 Acq On : 11 Sep 2018 19:40
 Operator : JC/MD
 Sample : J4857-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS027-180910

Quant Time: Sep 12 05:53:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 15:21:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	189157	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	302307	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	294364	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	160694	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	136875	56.12	ug/l	0.00
Spiked Amount			Recovery	=	112.24%	
35) Dibromofluoromethane	5.50	113	119718	43.28	ug/l	0.00
Spiked Amount			Recovery	=	86.56%	
50) Toluene-d8	8.72	98	442727	47.72	ug/l	0.00
Spiked Amount			Recovery	=	95.44%	
62) 4-Bromofluorobenzene	11.14	95	153141	46.24	ug/l	0.00
Spiked Amount			Recovery	=	92.48%	

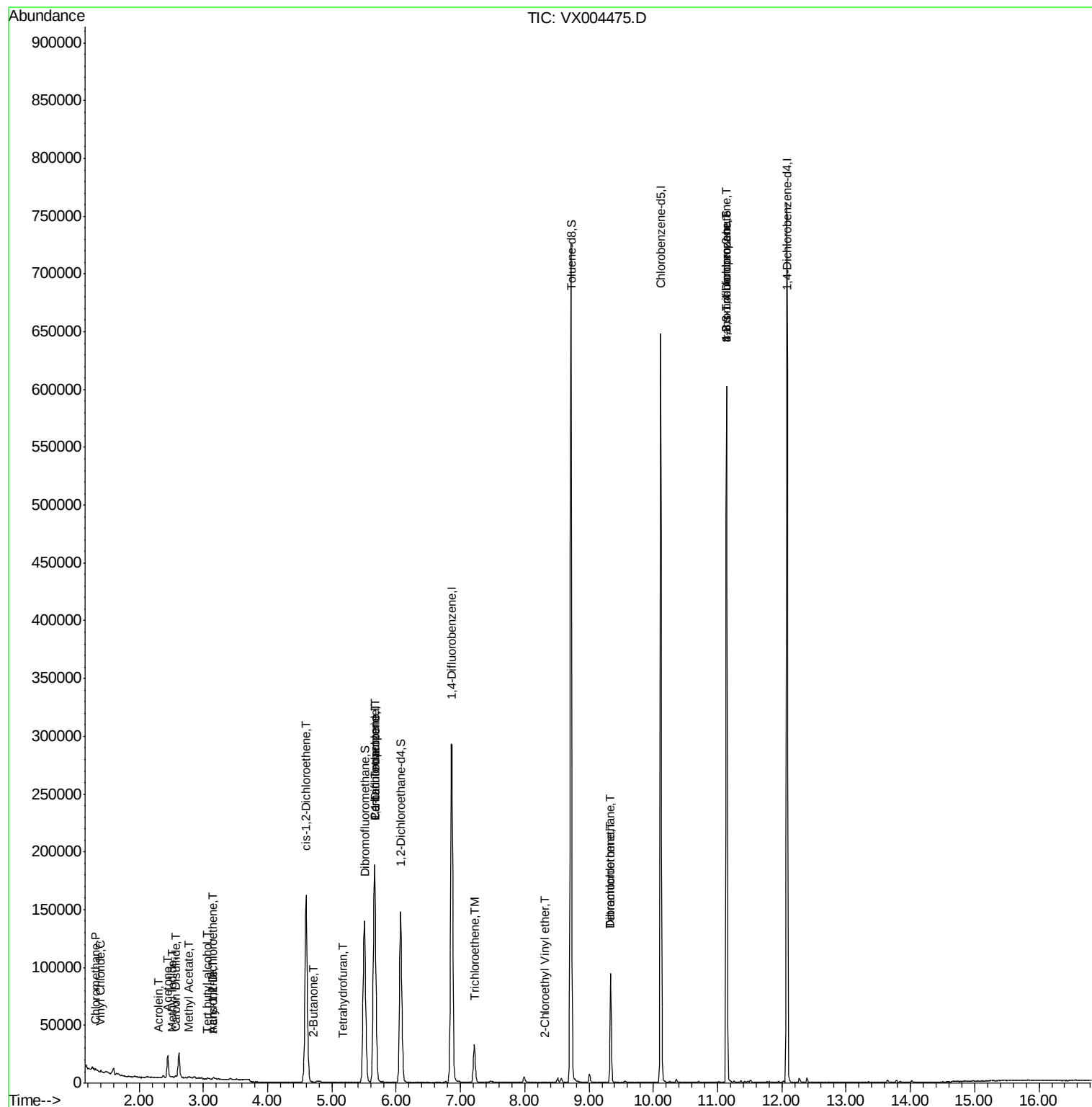
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1078	0.44	ug/l	96
4) Vinyl Chloride	1.40	62	1039	0.41	ug/l	92
10) Methyl Iodide	2.51	142	1147	4.67	ug/l #	95
11) Tert butyl alcohol	3.07	59	1161	1.99	ug/l #	93
13) Acrolein	2.30	56	184	0.80	ug/l #	17
15) Acrylonitrile	3.15	53	419	0.30	ug/l #	83
16) Acetone	2.45	43	20260	17.02	ug/l	99
17) Carbon Disulfide	2.57	76	1984	0.35	ug/l #	94
18) Methyl Acetate	2.78	43	846	0.25	ug/l	98
21) trans-1,2-Dichloroethene	3.15	96	519	0.24	ug/l #	78
25) 2-Butanone	4.71	43	723	0.38	ug/l	91
27) cis-1,2-Dichloroethene	4.60	96	101097	41.47	ug/l	92
29) Tetrahydrofuran	5.18	42	445	0.39	ug/l #	42
36) 1,1-Dichloropropene	5.66	75	13024	3.55	ug/l #	49
38) Carbon Tetrachloride	5.67	117	16797	4.69	ug/l #	16
44) Trichloroethene	7.22	130	13349	4.72	ug/l	94
58) 2-Chloroethyl Vinyl ether	8.32	63	41	7.29	ug/l #	45
60) Dibromochloromethane	9.34	129	17243	6.63	ug/l #	11
64) Tetrachloroethene	9.34	164	19054	5.18	ug/l	94
76) 1,2,3-Trichloropropane	11.14	75	73384	23.37	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	73384	72.35	ug/l #	10

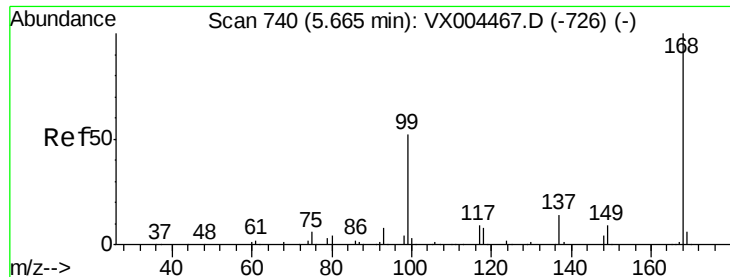
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX004475.D

Acq: 11 Sep 2018 19:40

Instrument :

MSVOA_X

ClientSampleId :

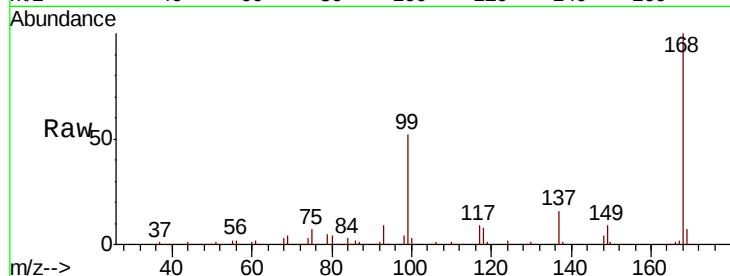
KY038PS027-180910

Tot Ion:168 Resp: 189157

Ion Ratio Lower Upper

168 100

99 51.9 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

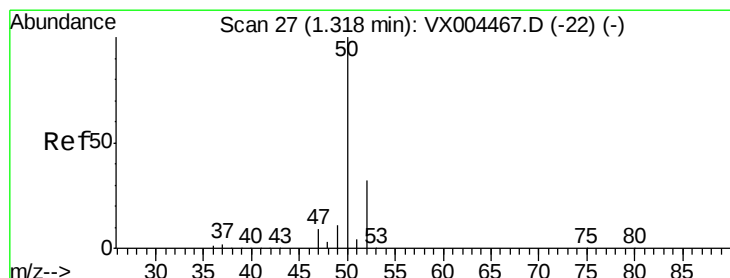
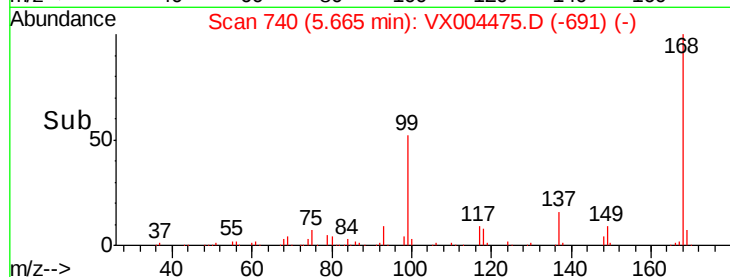
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.44 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX004475.D

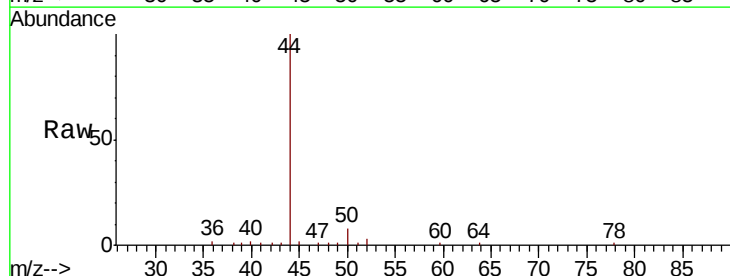
Acq: 11 Sep 2018 19:40

Tgt Ion: 50 Resp: 1078

Ion Ratio Lower Upper

50 100

52 35.0 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

1000

800

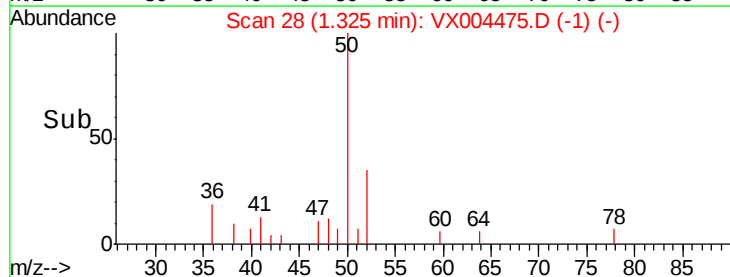
600

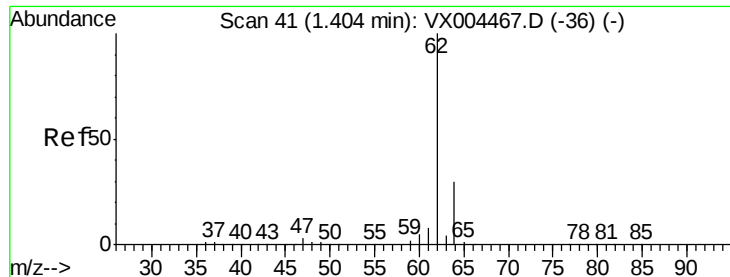
400

200

0

Time--> 1.30 1.35





#4

Vinyl Chloride

Concen: 0.41 ug/l

RT: 1.40 min Scan# 41

Delta R.T. 0.00 min

Lab File: VX004475.D

Acq: 11 Sep 2018 19:40

Instrument :

MSVOA_X

ClientSampleId :

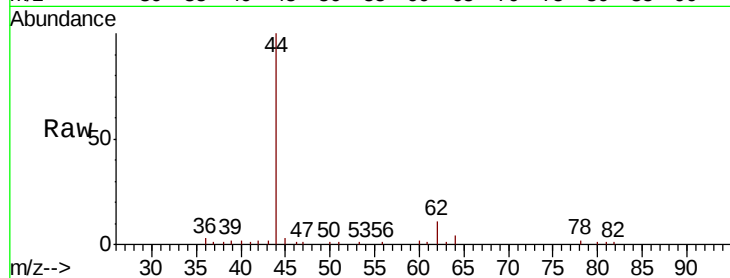
KY038PS027-180910

Tot Ion: 62 Resp: 1039

Ion Ratio Lower Upper

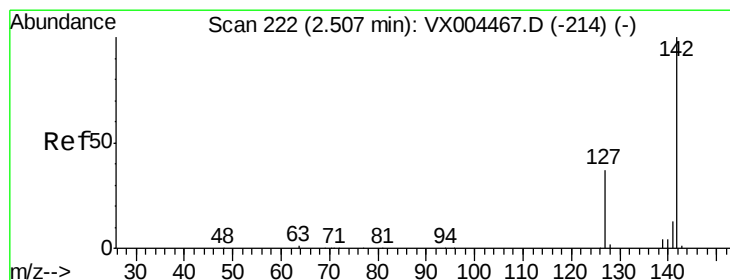
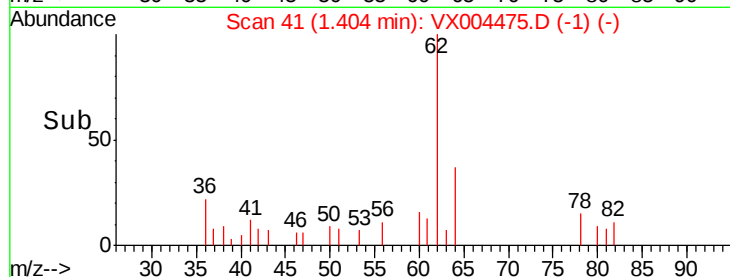
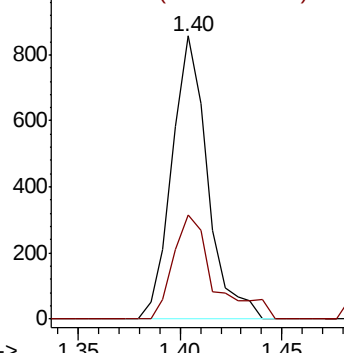
62 100

64 36.9 25.8 38.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#10

Methyl Iodide

Concen: 4.67 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX004475.D

Acq: 11 Sep 2018 19:40

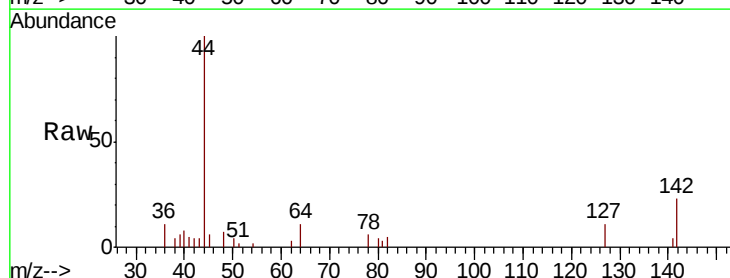
Tgt Ion: 142 Resp: 1147

Ion Ratio Lower Upper

142 100

127 40.5 33.8 50.6

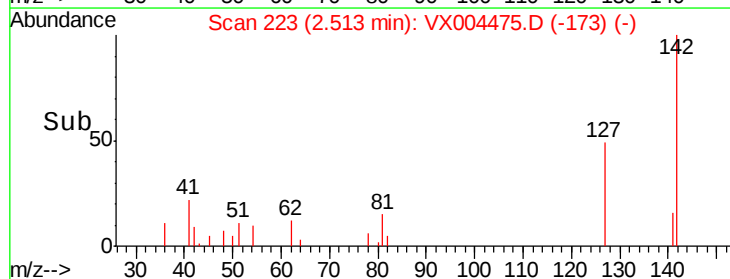
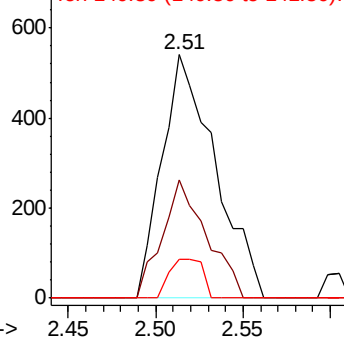
141 10.0 11.4 17.0#

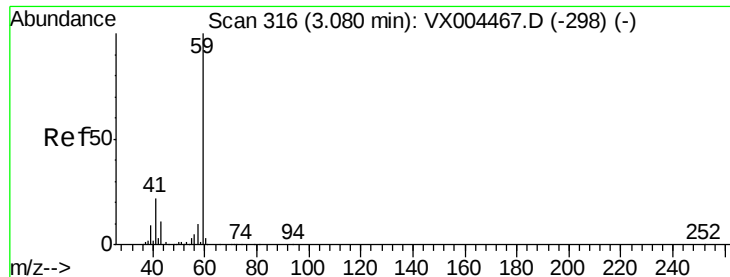


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

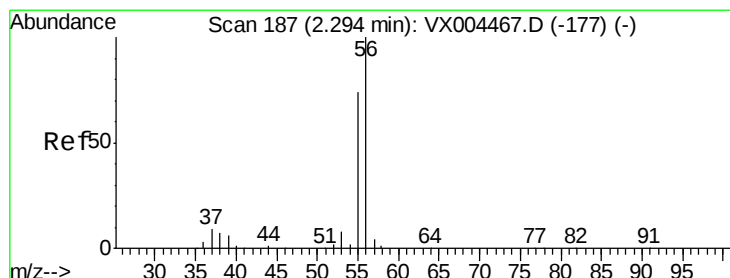
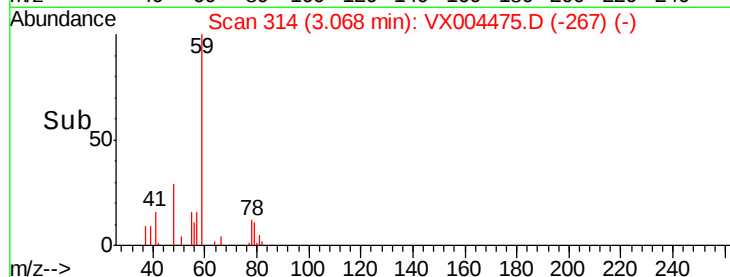
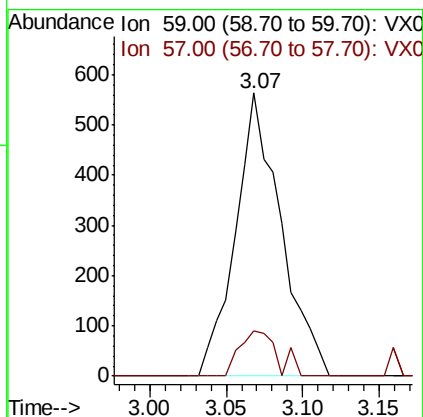
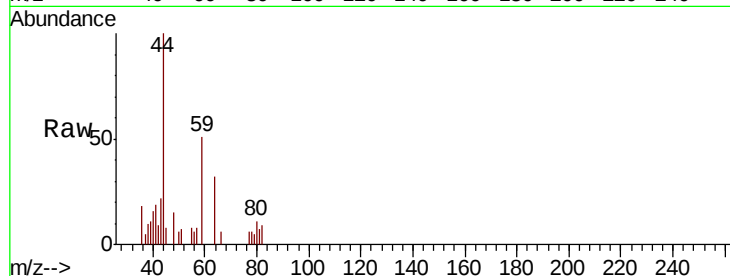




#11
Tert butyl alcohol
Concen: 1.99 ug/l
RT: 3.07 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX004475.D
Acq: 11 Sep 2018 19:40

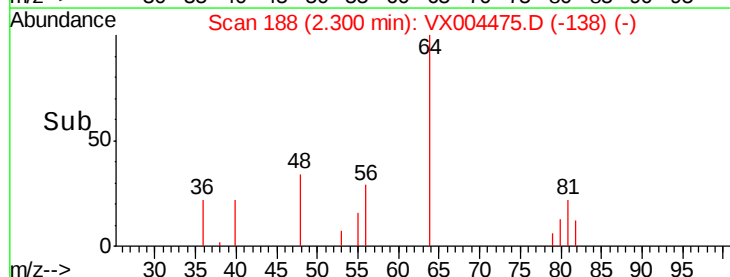
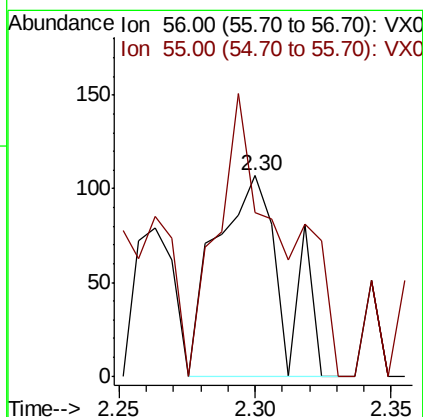
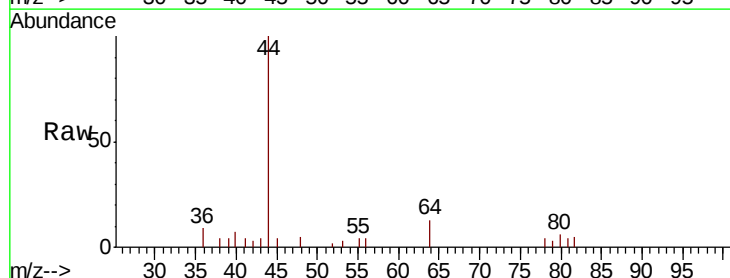
Instrument :
MSVOA_X
ClientSampleId :
KY038PS027-180910

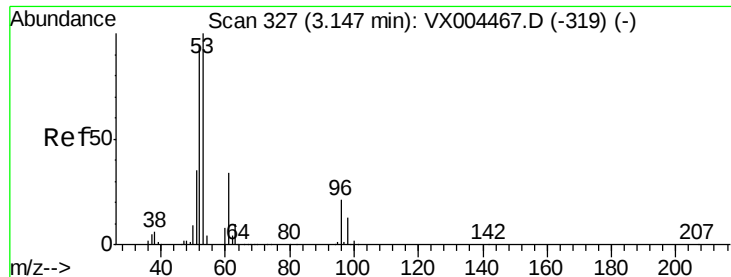
Tot Ion: 59 Resp: 1161
Ion Ratio Lower Upper
59 100
57 13.1 8.2 12.4#



#13
Acrolein
Concen: 0.80 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX004475.D
Acq: 11 Sep 2018 19:40

Tgt Ion: 56 Resp: 184
Ion Ratio Lower Upper
56 100
55 135.9 54.7 82.1#





#15

Acrylonitrile

Concen: 0.30 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX004475.D

Acq: 11 Sep 2018 19:40

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-180910

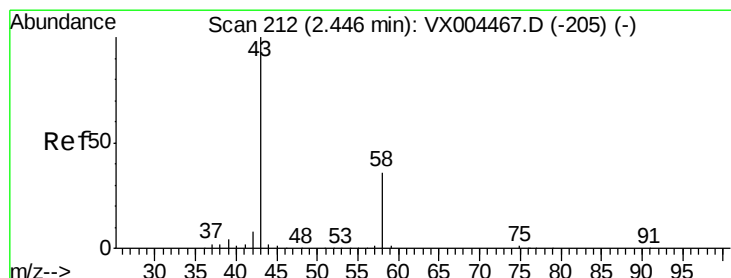
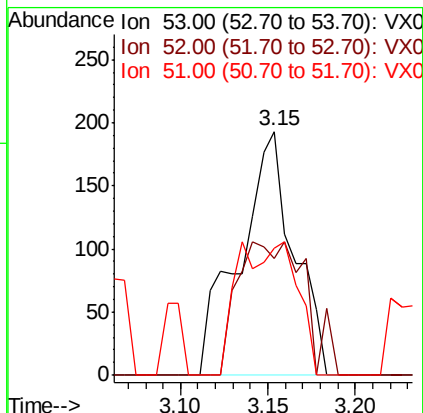
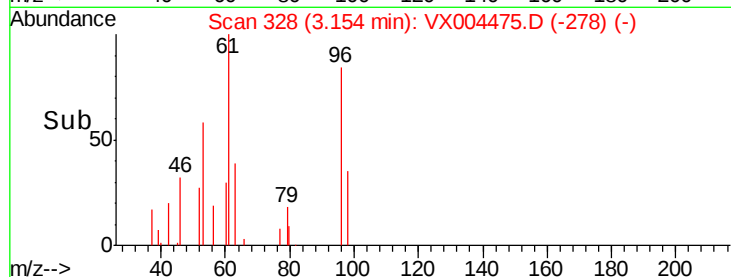
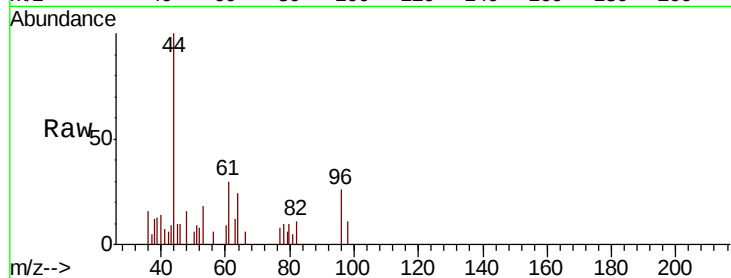
Tot Ion: 53 Resp: 419

Ion Ratio Lower Upper

53 100

52 68.3 65.2 97.8

51 22.7 28.2 42.2#



#16

Acetone

Concen: 17.02 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX004475.D

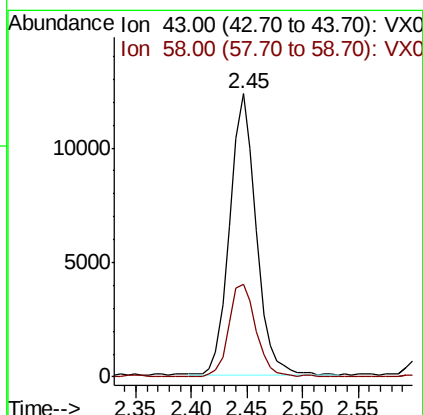
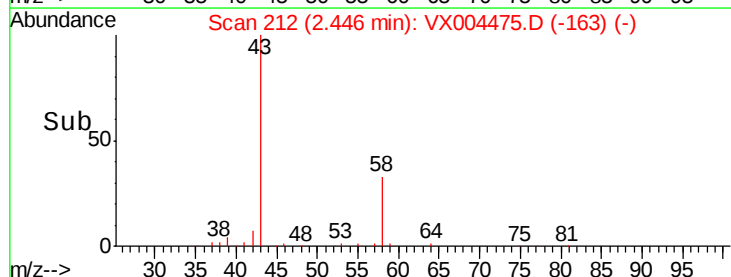
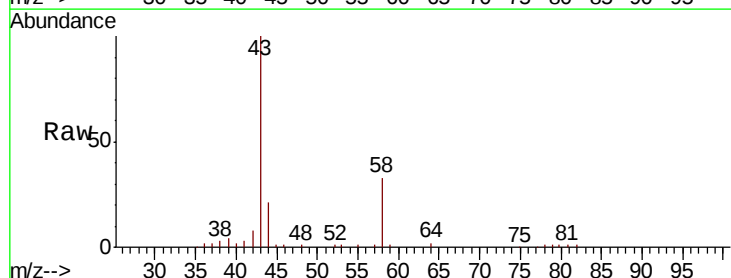
Acq: 11 Sep 2018 19:40

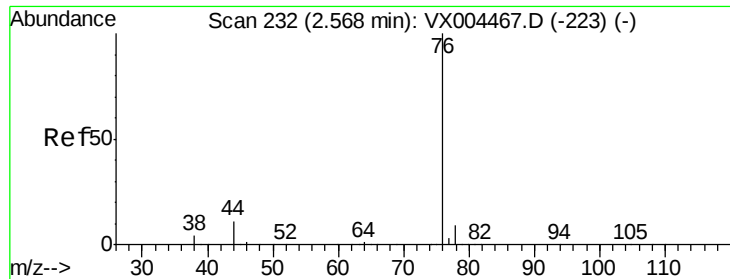
Tgt Ion: 43 Resp: 20260

Ion Ratio Lower Upper

43 100

58 33.1 26.2 39.4





#17

Carbon Disulfide

Concen: 0.35 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX004475.D

Acq: 11 Sep 2018 19:40

Instrument :

MSVOA_X

ClientSampleId :

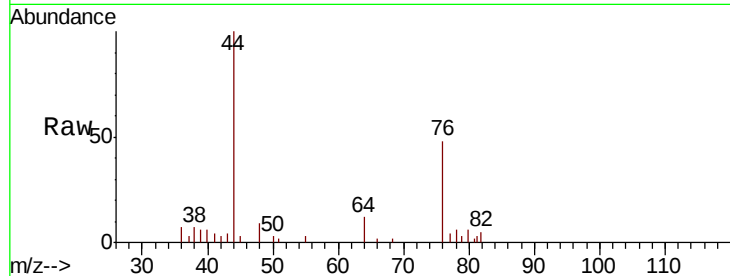
KY038PS027-180910

Tot Ion: 76 Resp: 1984

Ion Ratio Lower Upper

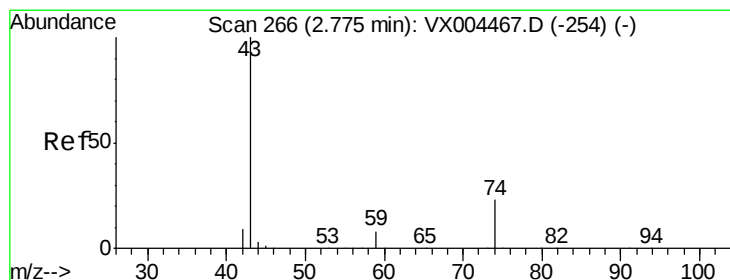
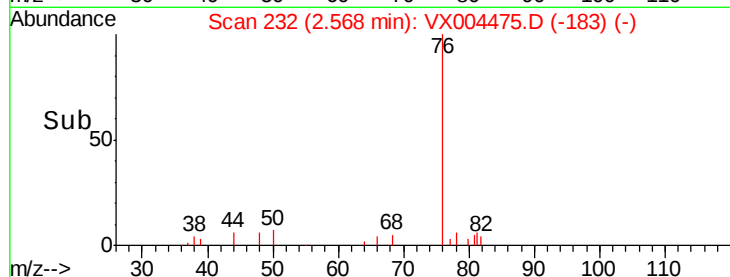
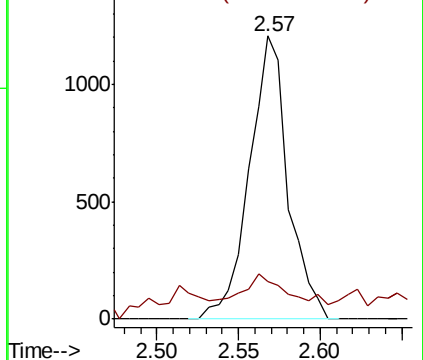
76 100

78 6.8 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.25 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX004475.D

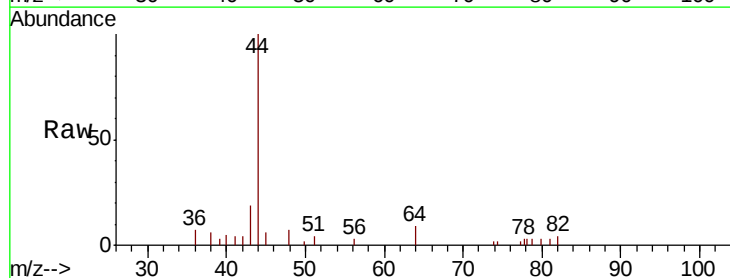
Acq: 11 Sep 2018 19:40

Tgt Ion: 43 Resp: 846

Ion Ratio Lower Upper

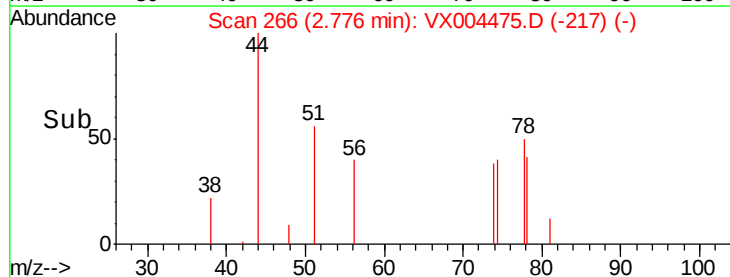
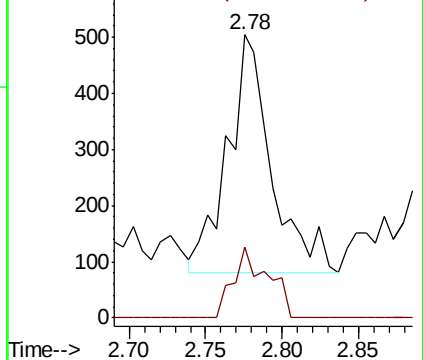
43 100

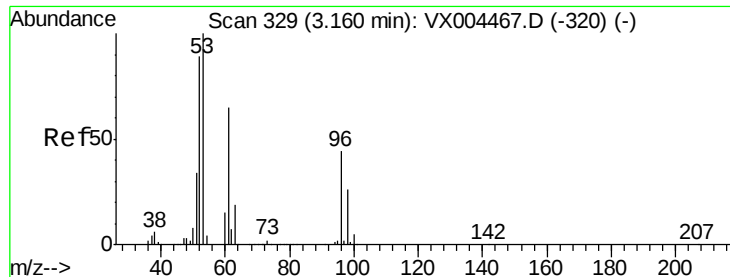
74 23.5 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#21

trans-1,2-Dichloroethene

Concen: 0.24 ug/l

RT: 3.15 min Scan# 328

Delta R.T. -0.01 min

Lab File: VX004475.D

Acq: 11 Sep 2018 19:40

Instrument :

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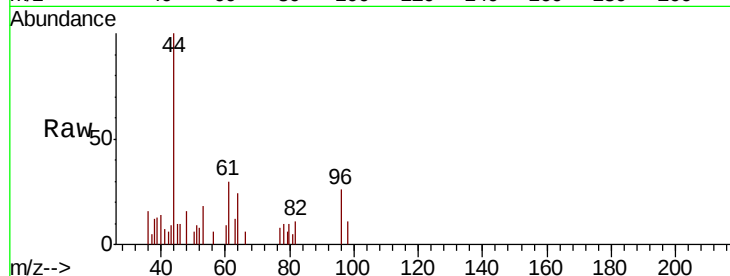
Tot Ion: 96 Resp: 519

Ion Ratio Lower Upper

96 100

61 118.8 113.8 170.6

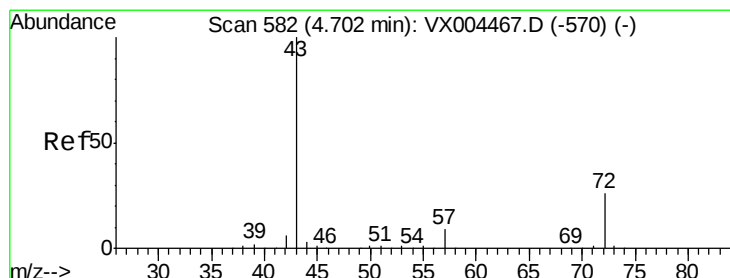
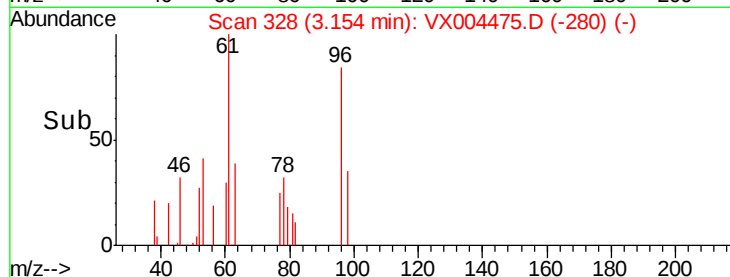
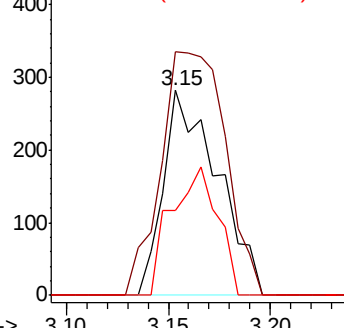
98 41.1 51.8 77.8#



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



#25

2-Butanone

Concen: 0.38 ug/l

RT: 4.71 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX004475.D

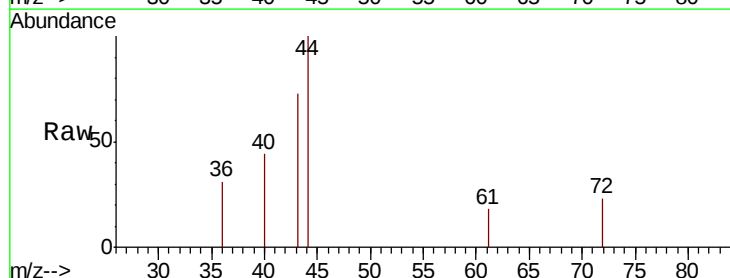
Acq: 11 Sep 2018 19:40

Tgt Ion: 43 Resp: 723

Ion Ratio Lower Upper

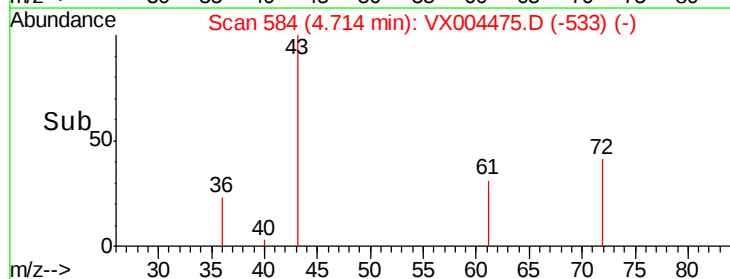
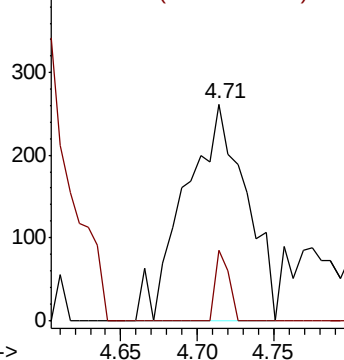
43 100

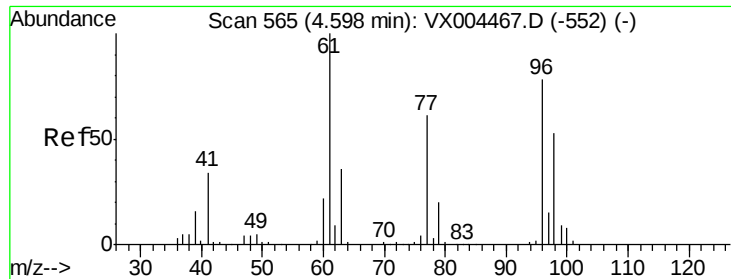
72 32.1 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#27

cis-1,2-Dichloroethene

Concen: 41.47 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.00 min

Lab File: VX004475.D

Acq: 11 Sep 2018 19:40

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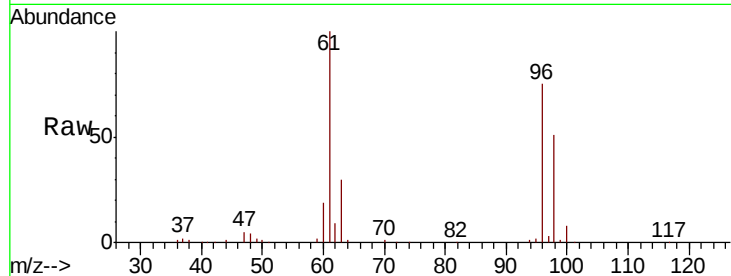
Tot Ion: 96 Resp: 101097

Ion Ratio Lower Upper

96 100

61 126.1 0.0 282.6

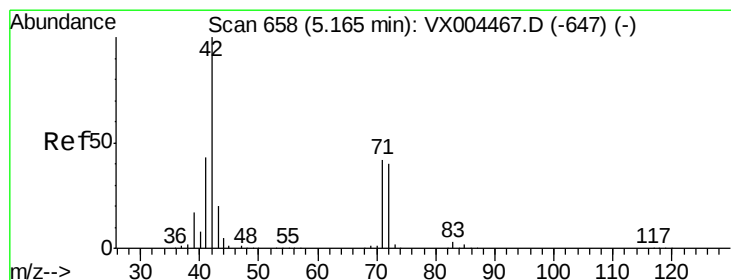
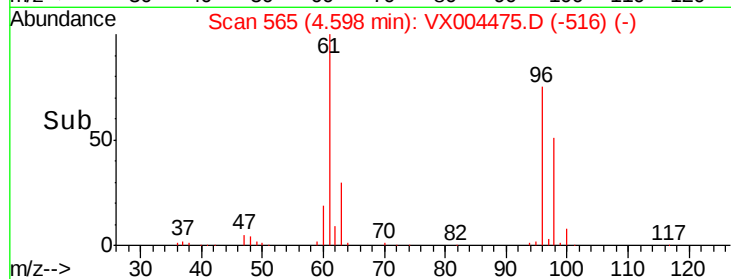
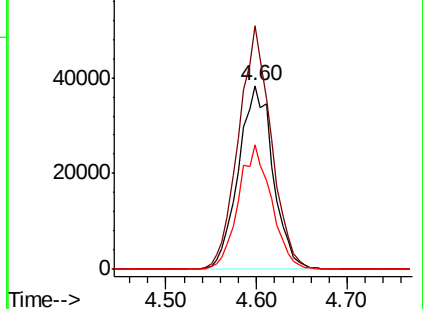
98 65.1 0.0 130.2



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



#29

Tetrahydrofuran

Concen: 0.39 ug/l

RT: 5.18 min Scan# 660

Delta R.T. 0.01 min

Lab File: VX004475.D

Acq: 11 Sep 2018 19:40

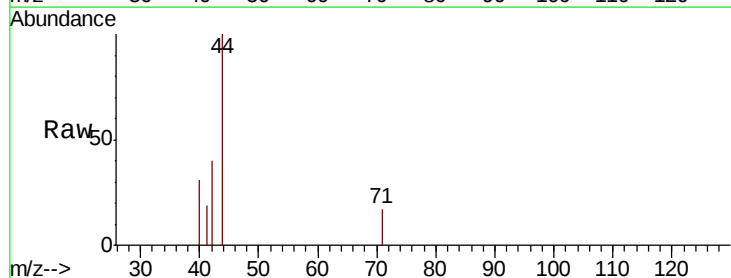
Tgt Ion: 42 Resp: 445

Ion Ratio Lower Upper

42 100

72 0.0 37.4 56.0#

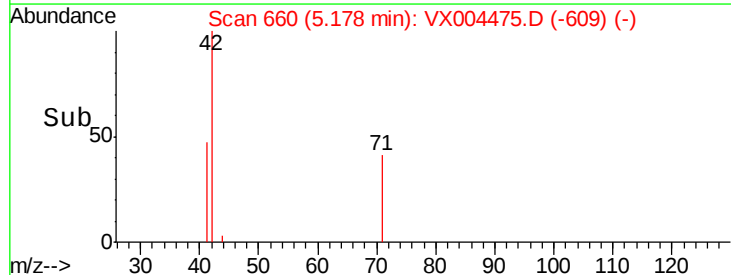
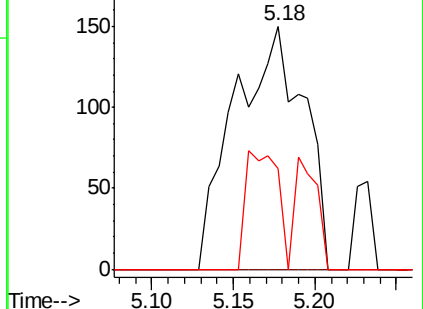
71 14.8 34.5 51.7#

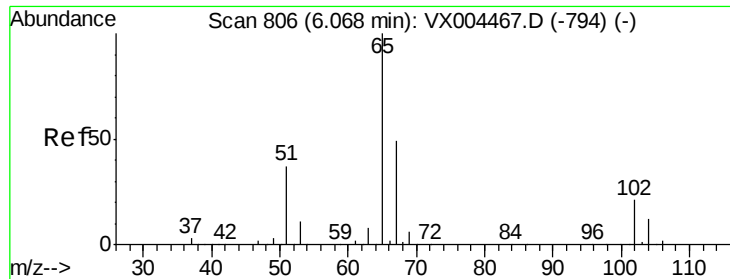


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 56.12 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX004475.D

Acq: 11 Sep 2018 19:40

Instrument :

MSVOA_X

ClientSampleId :

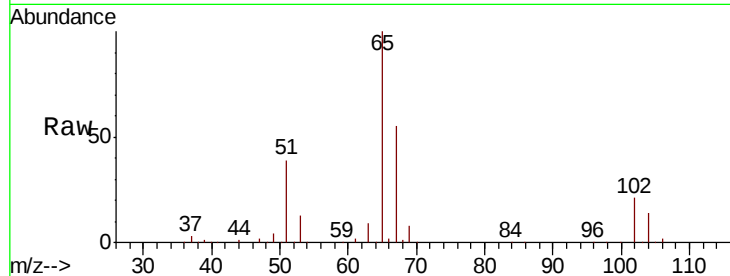
KY038PS027-180910

Tot Ion: 65 Resp: 136875

Ion Ratio Lower Upper

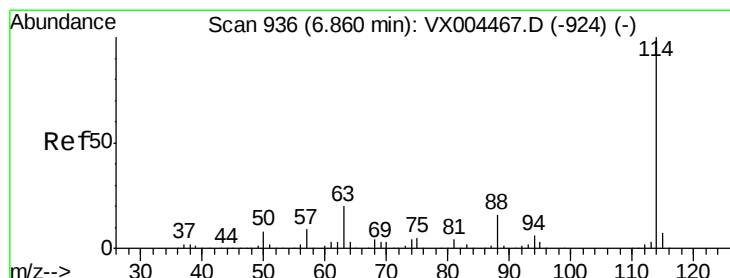
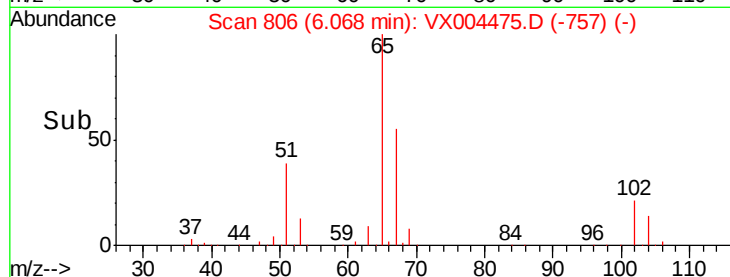
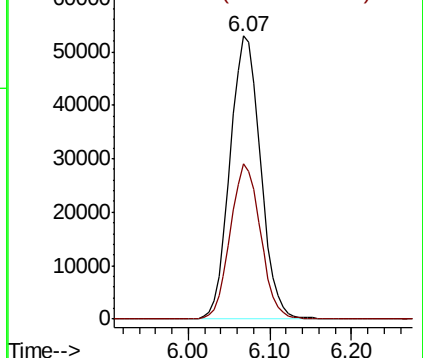
65 100

67 54.3 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX004475.D

Acq: 11 Sep 2018 19:40

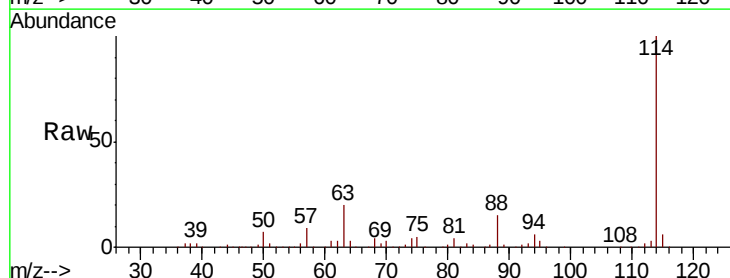
Tgt Ion: 114 Resp: 302307

Ion Ratio Lower Upper

114 100

63 20.2 0.0 39.0

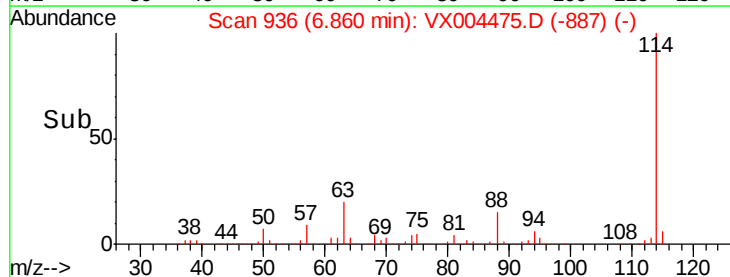
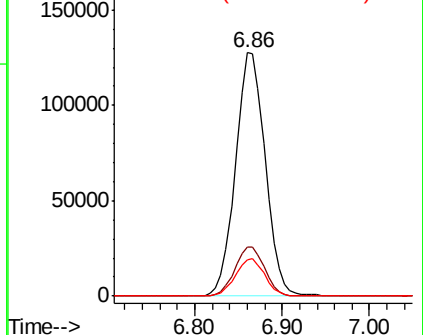
88 15.0 0.0 30.4

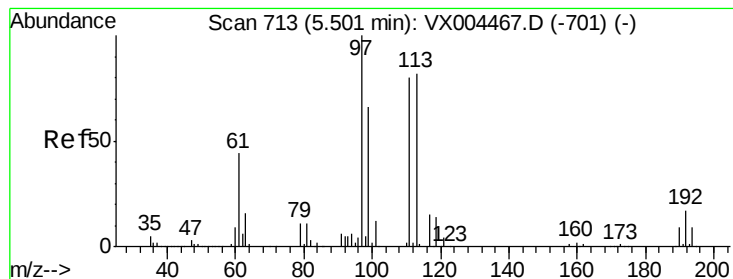


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 43.28 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX004475.D

Acq: 11 Sep 2018 19:40

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-180910

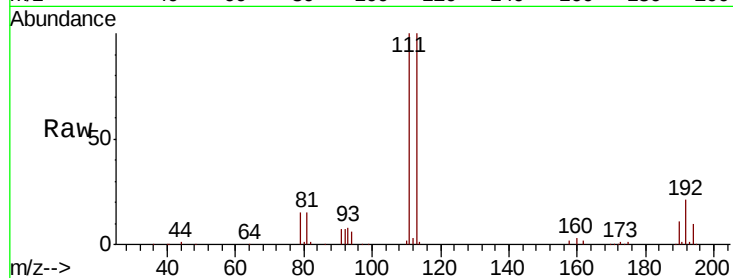
Tot Ion:113 Resp: 119718

Ion Ratio Lower Upper

113 100

111 101.9 82.4 123.6

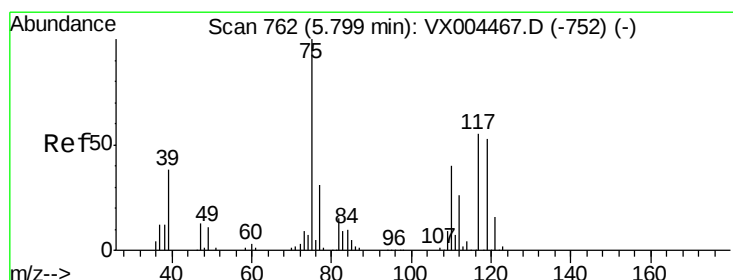
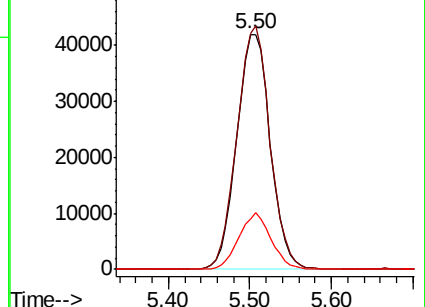
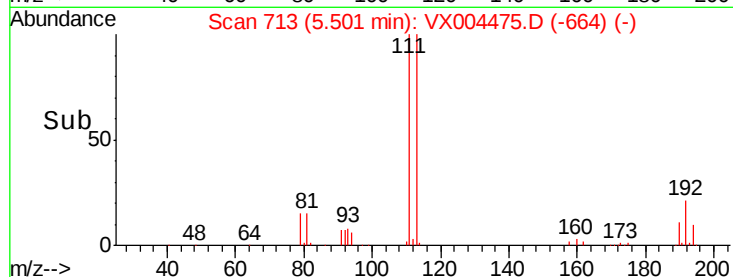
192 22.9 19.4 29.2



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: 3.55 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX004475.D

Acq: 11 Sep 2018 19:40

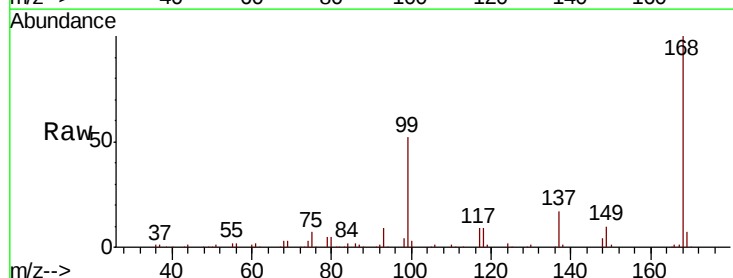
Tgt Ion: 75 Resp: 13024

Ion Ratio Lower Upper

75 100

110 9.0 18.0 54.0#

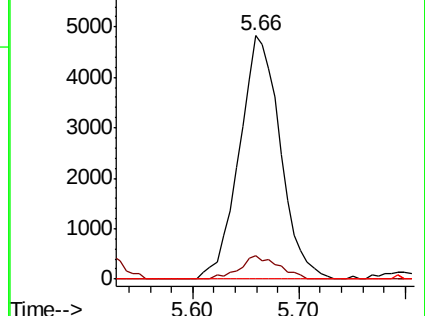
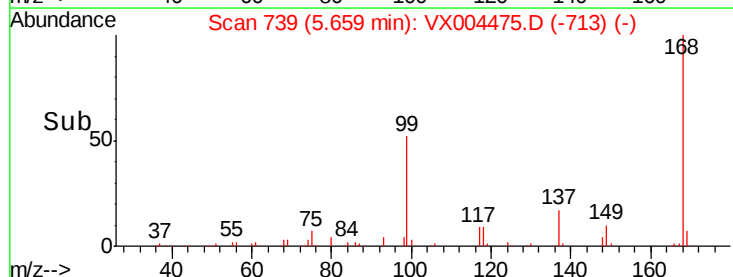
77 0.0 24.6 36.8#

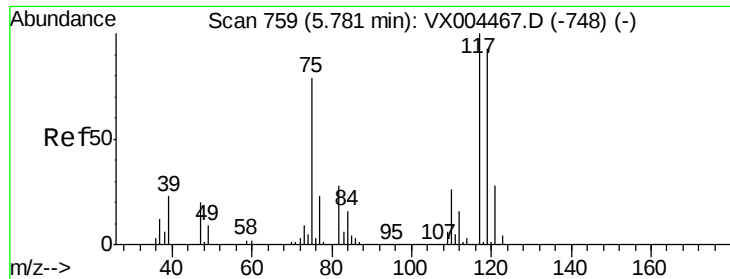


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 4.69 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX004475.D

Acq: 11 Sep 2018 19:40

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-180910

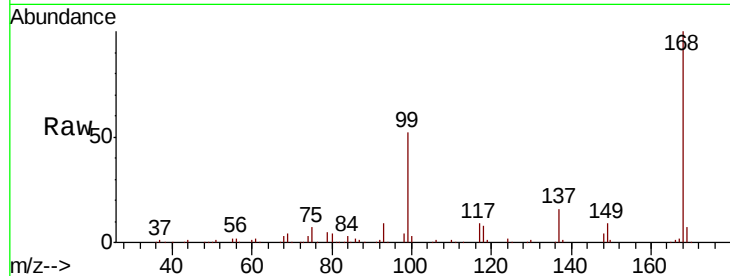
Tot Ion:117 Resp: 16797

Ion Ratio Lower Upper

117 100

119 6.5 78.8 118.2#

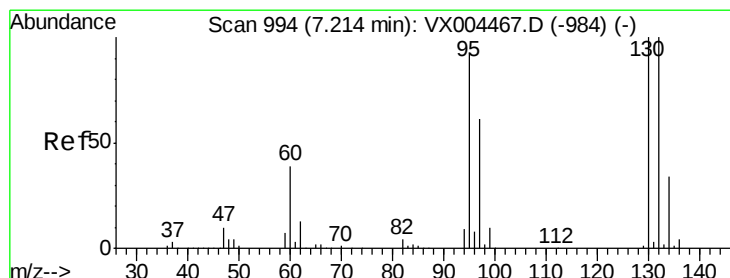
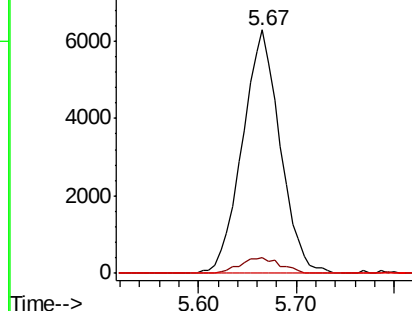
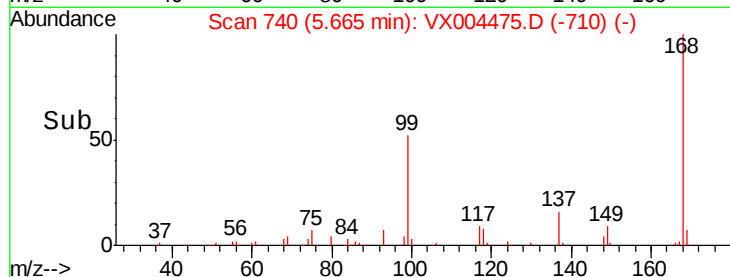
121 0.0 24.9 37.3#



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: 4.72 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX004475.D

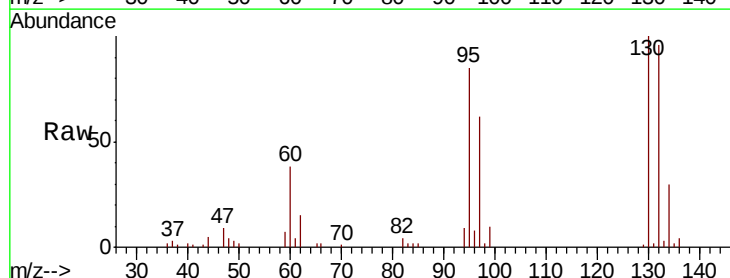
Acq: 11 Sep 2018 19:40

Tgt Ion:130 Resp: 13349

Ion Ratio Lower Upper

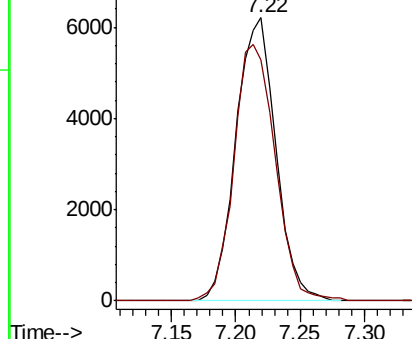
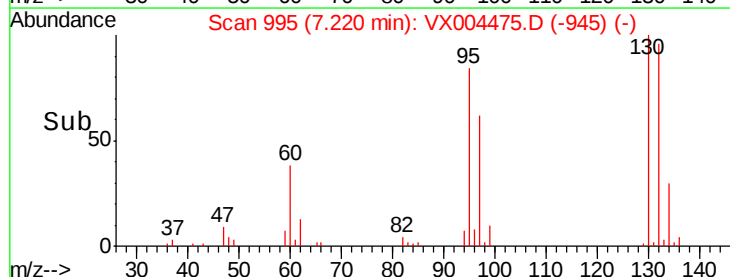
130 100

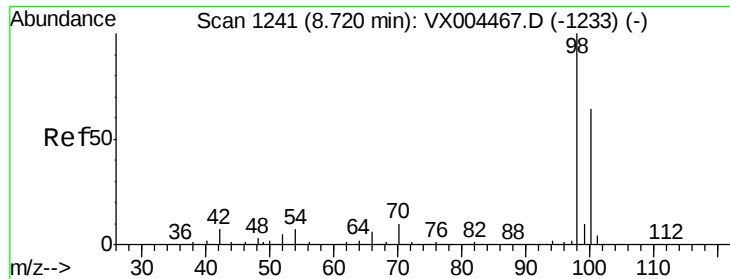
95 85.1 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

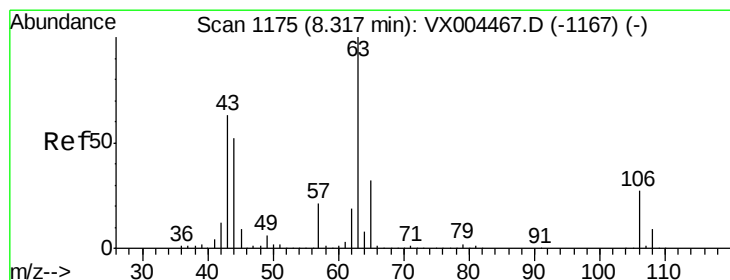
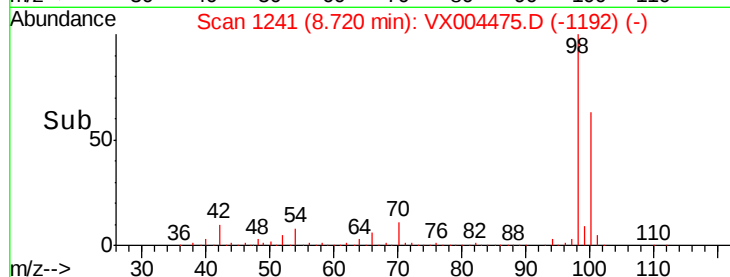
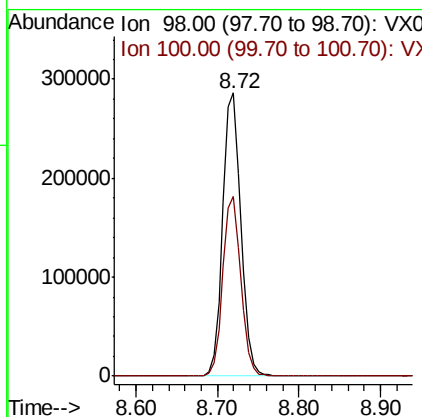
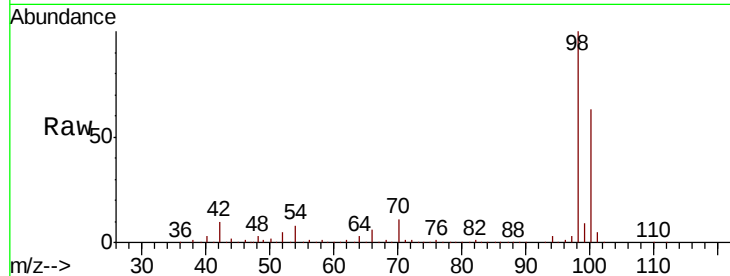




#50
Toluene-d8
Concen: 47.72 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.00 min
Lab File: VX004475.D
Acq: 11 Sep 2018 19:40

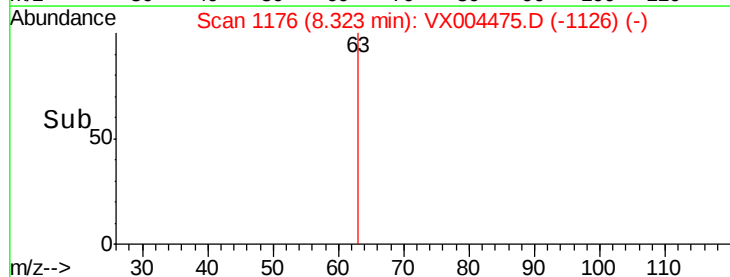
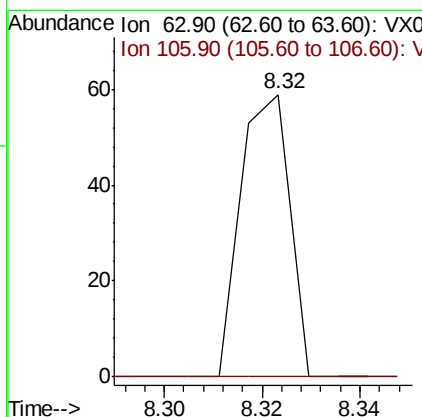
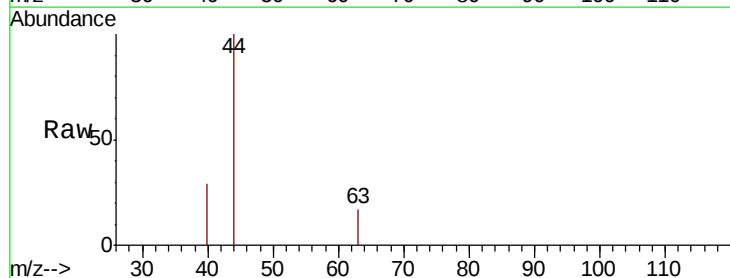
Instrument :
MSVOA_X
ClientSampleId :
KY038PS027-180910

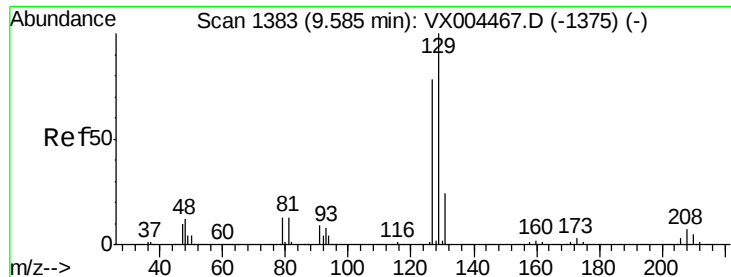
Tot Ion: 98 Resp: 442727
Ion Ratio Lower Upper
98 100
100 63.2 52.9 79.3



#58
2-Chloroethyl Vinyl ether
Concen: 7.29 ug/l
RT: 8.32 min Scan# 1176
Delta R.T. 0.01 min
Lab File: VX004475.D
Acq: 11 Sep 2018 19:40

Tgt Ion: 63 Resp: 41
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#

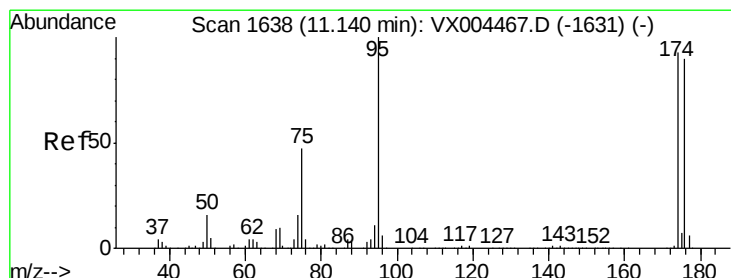
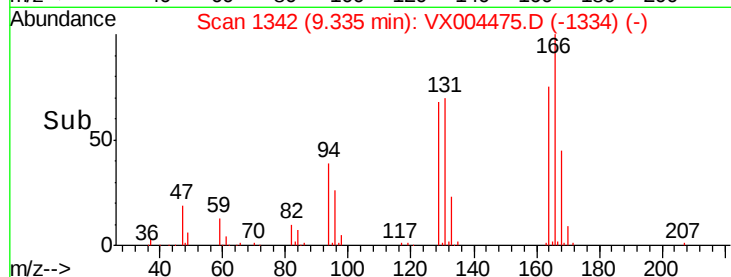
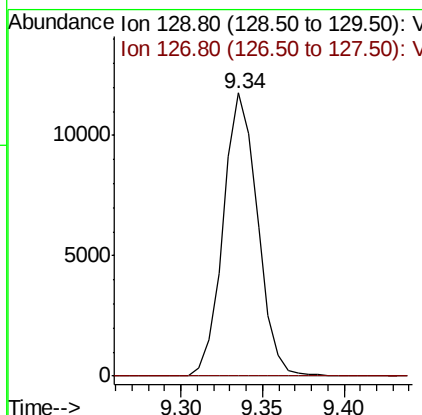
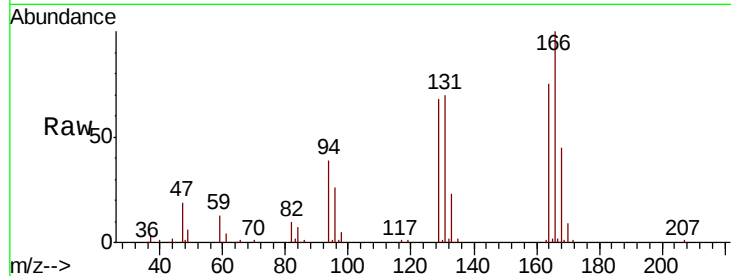




#60
 Dibromochloromethane
 Concen: 6.63 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. -0.25 min
 Lab File: VX004475.D
 Acq: 11 Sep 2018 19:40

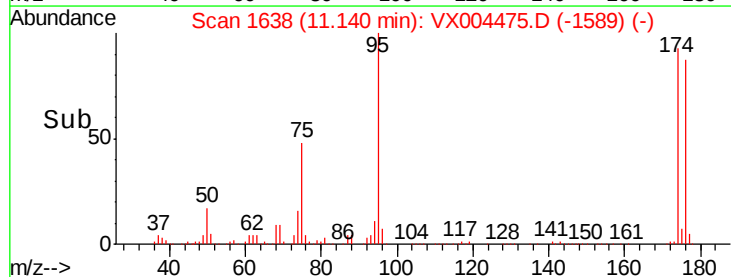
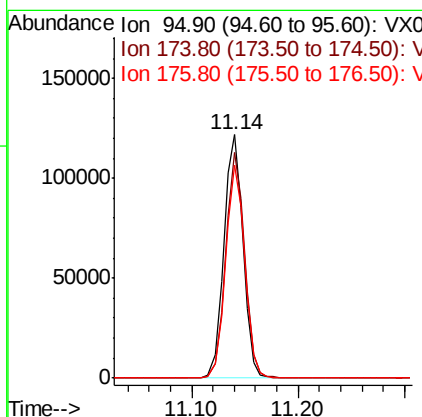
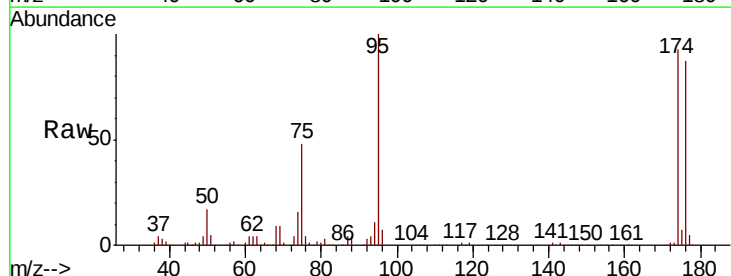
Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS027-180910

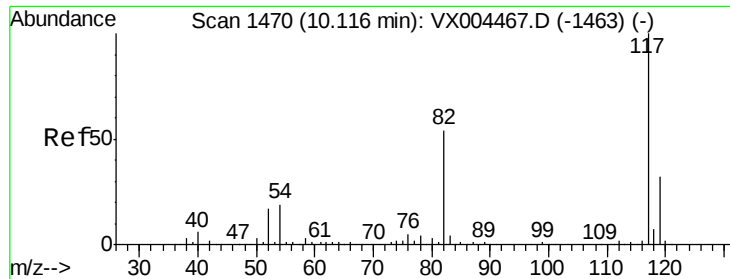
Tot Ion:129 Resp: 17243
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.5 115.5#



#62
 4-Bromofluorobenzene
 Concen: 46.24 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.00 min
 Lab File: VX004475.D
 Acq: 11 Sep 2018 19:40

Tgt Ion: 95 Resp: 153141
 Ion Ratio Lower Upper
 95 100
 174 92.4 0.0 185.2
 176 87.7 0.0 178.6

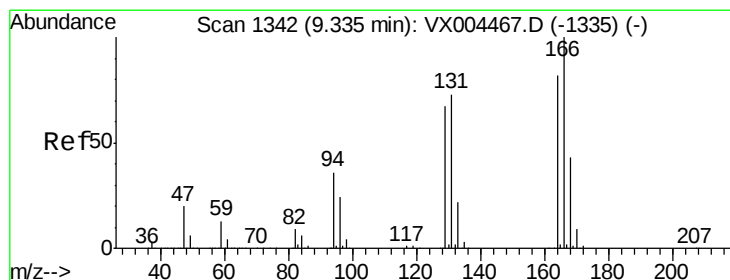
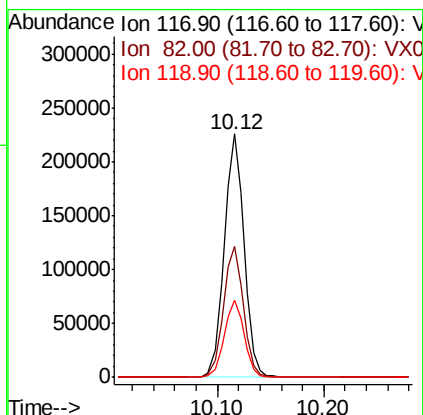
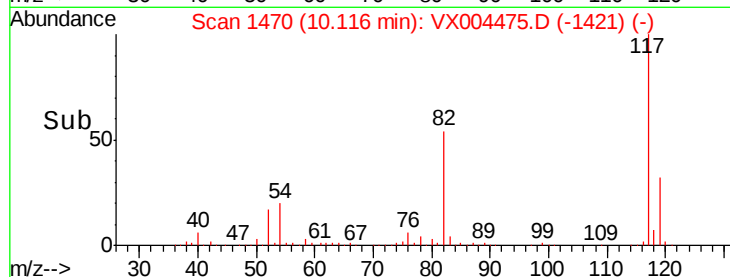
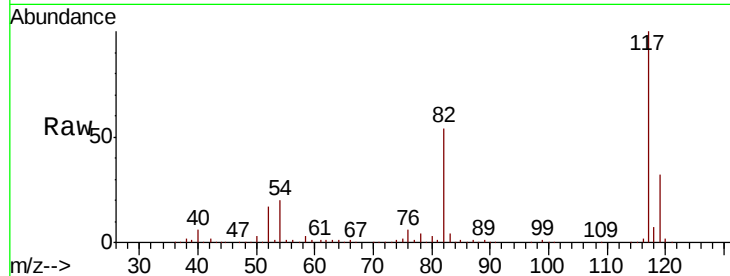




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX004475.D
Acq: 11 Sep 2018 19:40

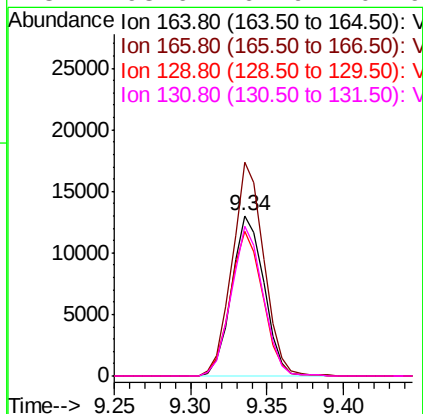
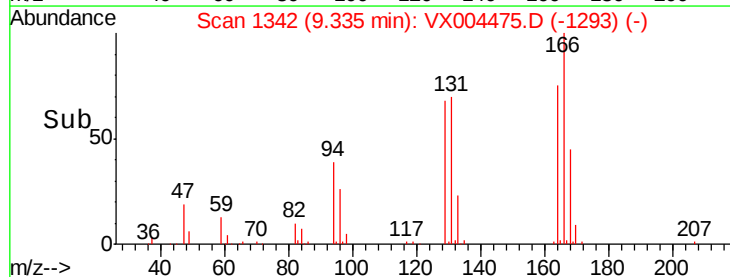
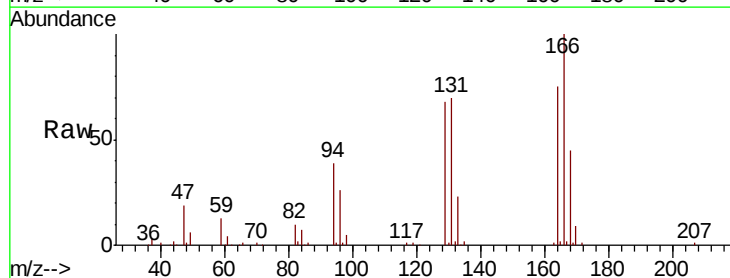
Instrument :
MSVOA_X
ClientSampleId :
KY038PS027-180910

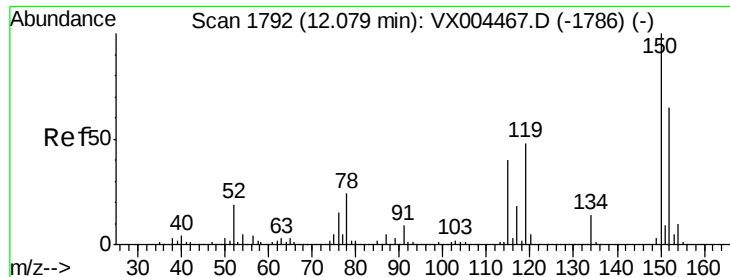
Tot Ion:117 Resp: 294364
Ion Ratio Lower Upper
117 100
82 54.0 47.8 71.6
119 31.9 29.3 43.9



#64
Tetrachloroethene
Concen: 5.18 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX004475.D
Acq: 11 Sep 2018 19:40

Tgt Ion:164 Resp: 19054
Ion Ratio Lower Upper
164 100
166 133.4 102.8 154.2
129 90.5 69.4 104.0
131 93.6 67.9 101.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX004475.D

Acq: 11 Sep 2018 19:40

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-180910

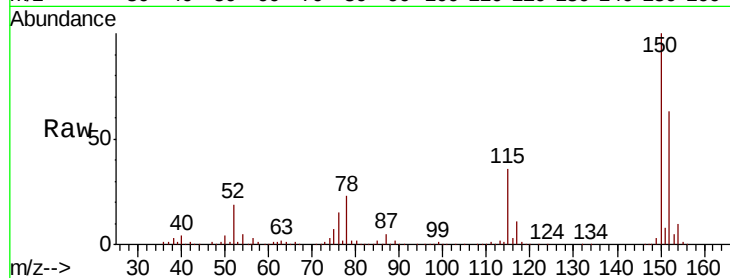
Tot Ion:152 Resp: 160694

Ion Ratio Lower Upper

152 100

115 55.2 39.0 117.0

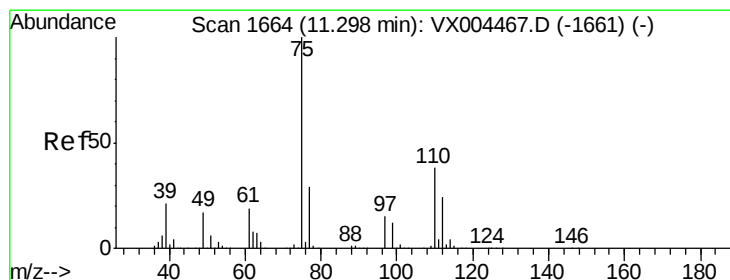
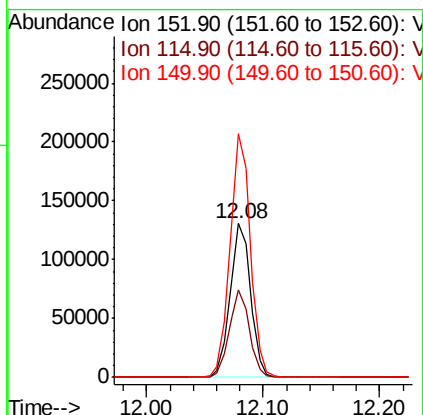
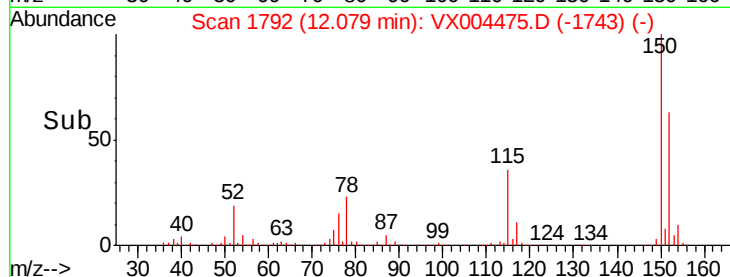
150 156.6 0.0 351.0



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: 23.37 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004475.D

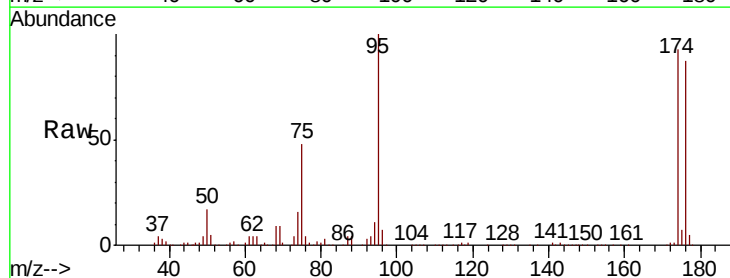
Acq: 11 Sep 2018 19:40

Tgt Ion: 75 Resp: 73384

Ion Ratio Lower Upper

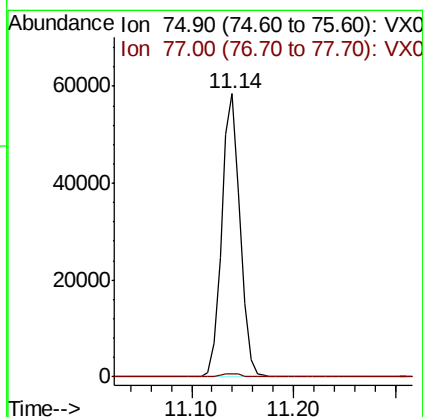
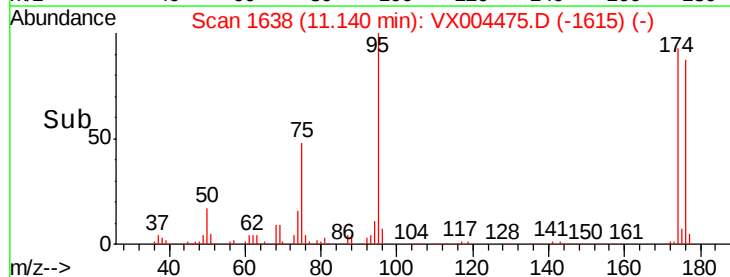
75 100

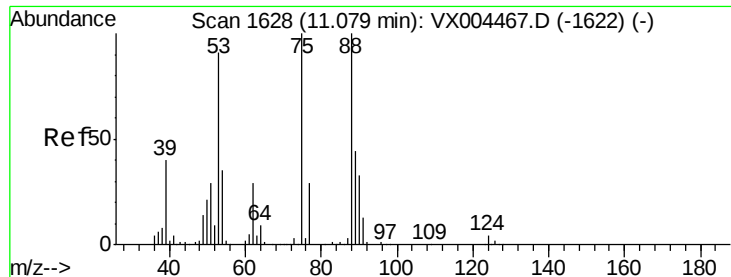
77 1.3 20.2 60.6#



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: 72.35 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004475.D

Acq: 11 Sep 2018 19:40

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-180910

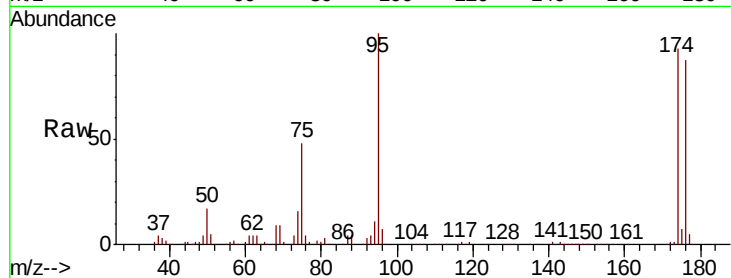
Tot Ion: 75 Resp: 73384

Ion Ratio Lower Upper

75 100

53 0.3 80.1 120.1#

89 0.1 37.2 55.8#



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

