

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX040820\
 Data File : VX015570.D
 Acq On : 08 Apr 2020 15:39
 Operator : JC/SP
 Sample : L2190-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY062MW140-200407

Quant Time: Apr 09 06:21:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 09:35:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	1081436	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1710728	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1644984	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	897220	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	720490	47.24	ug/l	0.00
Spiked Amount			Recovery	=	94.48%	
35) Dibromofluoromethane	5.47	113	542684	49.63	ug/l	0.00
Spiked Amount			Recovery	=	99.26%	
50) Toluene-d8	8.70	98	2046830	50.84	ug/l	0.00
Spiked Amount			Recovery	=	101.68%	
62) 4-Bromofluorobenzene	11.12	95	885440	54.11	ug/l	0.00
Spiked Amount			Recovery	=	108.22%	

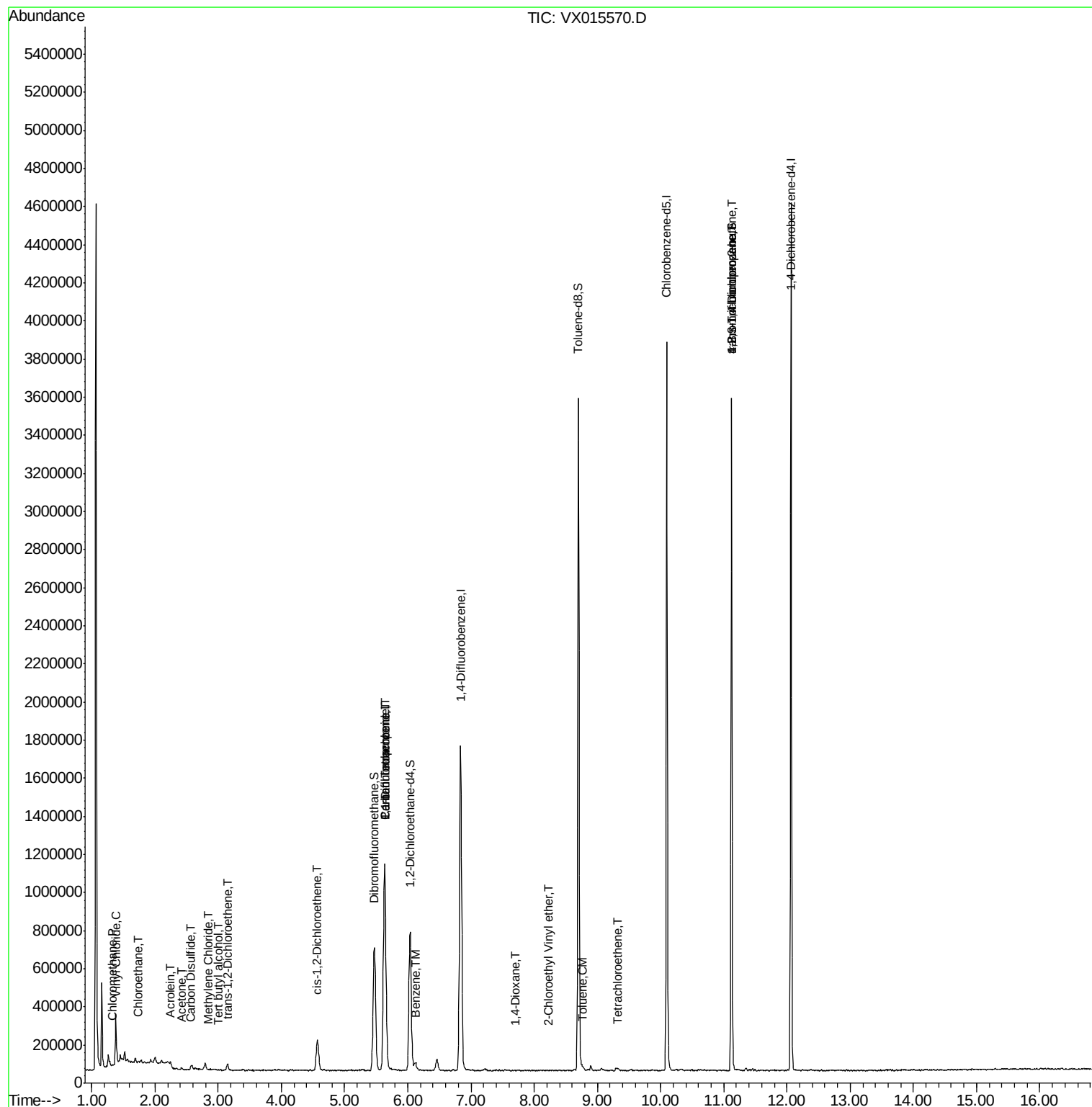
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	2783	0.229	ug/l	90
4) Vinyl Chloride	1.39	62	22123	1.986	ug/l #	40
5) Bromomethane	1.64	94	580	Below Cal	#	72
6) Chloroethane	1.73	64	2854	0.413	ug/l #	43
11) Tert butyl alcohol	3.01	59	3872	1.061	ug/l #	68
13) Acrolein	2.23	56	690	0.332	ug/l #	1
16) Acetone	2.42	43	11086	1.692	ug/l	96
17) Carbon Disulfide	2.56	76	12688	0.407	ug/l #	76
20) Methylene Chloride	2.84	84	3623	0.296	ug/l #	68
21) trans-1,2-Dichloroethene	3.14	96	14241	1.257	ug/l	93
27) cis-1,2-Dichloroethene	4.57	96	103837	7.921	ug/l	88
36) 1,1-Dichloropropene	5.63	75	76458	4.851	ug/l #	54
38) Carbon Tetrachloride	5.63	117	98363	5.762	ug/l #	15
40) Benzene	6.12	78	52629	1.140	ug/l	95
49) 1,4-Dioxane	7.70	88	154	0.477	ug/l #	21
52) Toluene	8.77	92	6062	0.213	ug/l	92
58) 2-Chloroethyl Vinyl ether	8.23	63	2179	0.218	ug/l	100
64) Tetrachloroethene	9.32	164	2588	0.208	ug/l #	75
76) 1,2,3-Trichloropropane	11.12	75	459571	24.908	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	459571	59.766	ug/l #	10

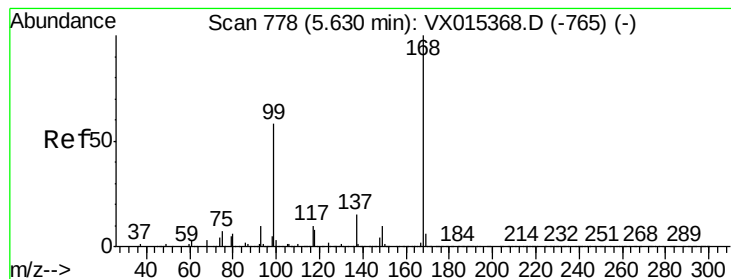
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 09 06:21:21 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
Quant Title : SW846 8260
QLast Update : Fri Mar 27 09:35:51 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 779

Delta R.T. 0.01 min

Lab File: VX015570.D

Acq: 08 Apr 2020 15:39

Instrument :

MSVOA_X

ClientSampleId :

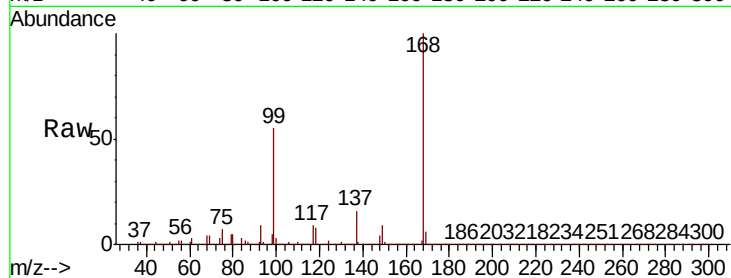
KY062MW140-200407

Tot Ion:168 Resp: 1081436

Ion Ratio Lower Upper

168 100

99 54.9 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

400000

300000

200000

100000

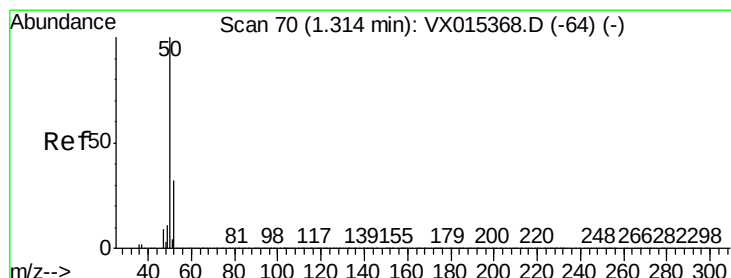
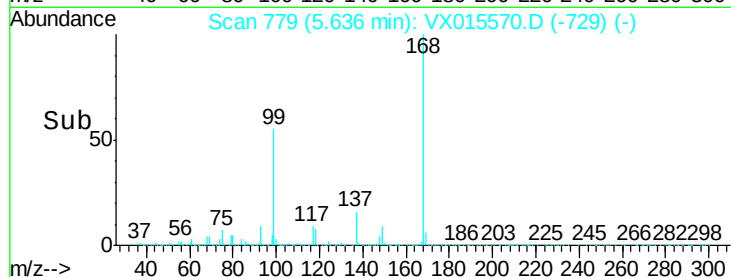
0

5.50

5.60

5.70

Time-->



#3

Chloromethane

Concen: 0.229 ug/l

RT: 1.31 min Scan# 70

Delta R.T. 0.00 min

Lab File: VX015570.D

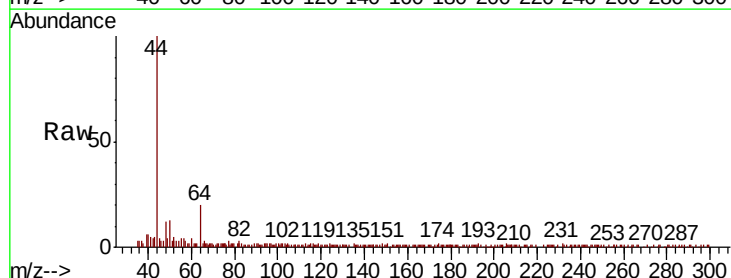
Acq: 08 Apr 2020 15:39

Tgt Ion: 50 Resp: 2783

Ion Ratio Lower Upper

50 100

52 26.3 25.3 37.9



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

8000

6000

4000

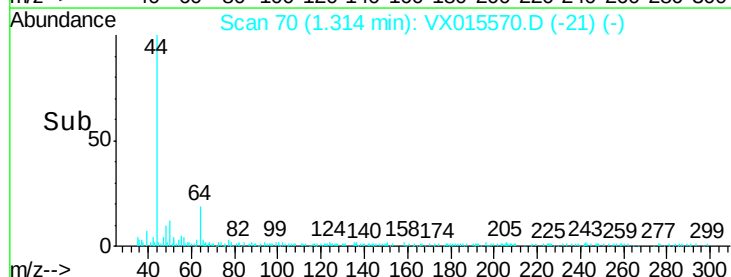
2000

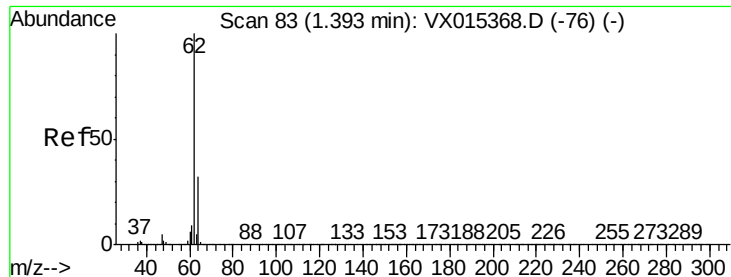
0

1.30

1.35

Time-->





#4

Vinyl Chloride

Concen: 1.986 ug/l

RT: 1.39 min Scan# 83

Delta R.T. -0.00 min

Lab File: VX015570.D

Acq: 08 Apr 2020 15:39

Instrument :

MSVOA_X

ClientSampleId :

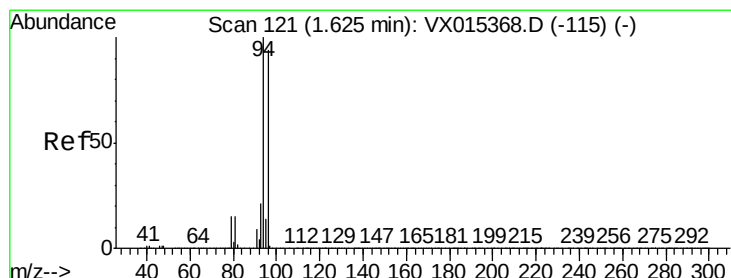
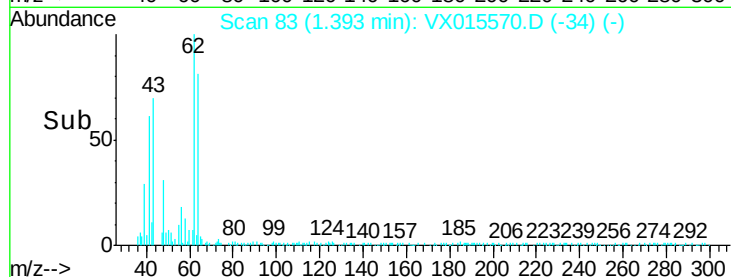
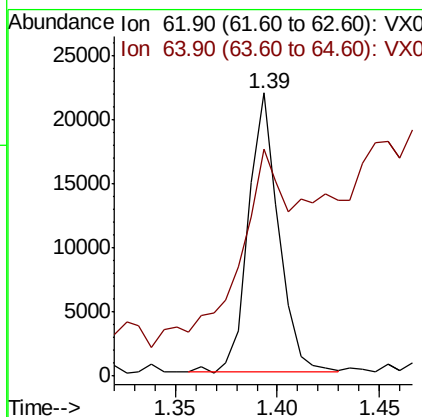
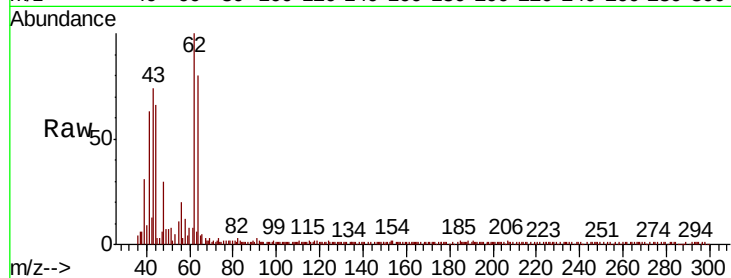
KY062MW140-200407

Tot Ion: 62 Resp: 22123

Ion Ratio Lower Upper

62 100

64 66.0 26.0 39.0#



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX015570.D

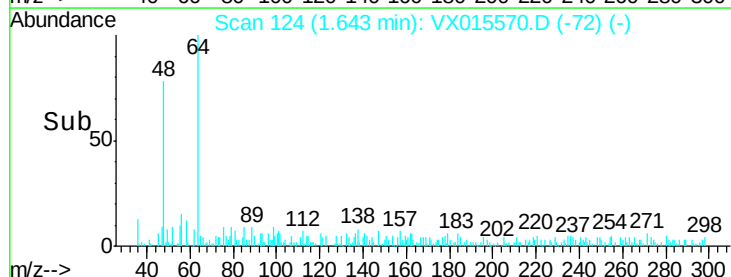
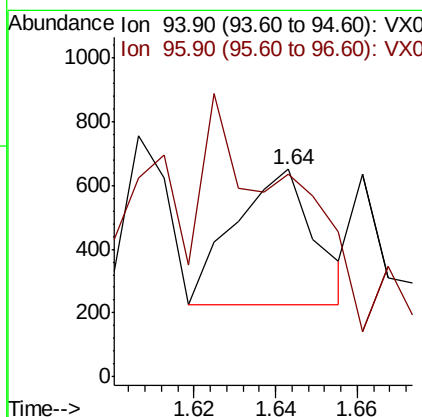
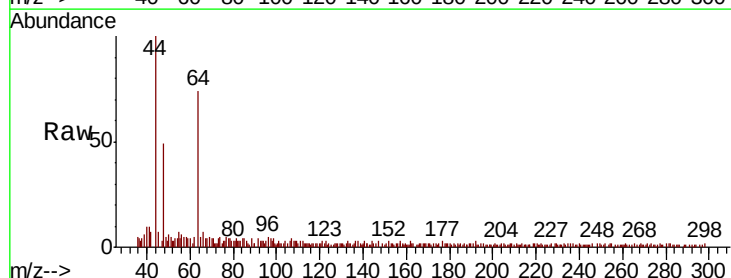
Acq: 08 Apr 2020 15:39

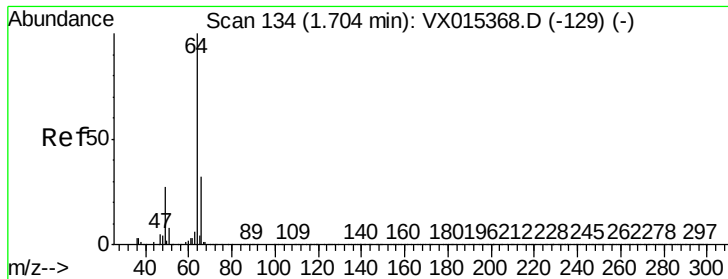
Tgt Ion: 94 Resp: 580

Ion Ratio Lower Upper

94 100

96 66.6 74.8 112.2#





#6

Chloroethane

Concen: 0.413 ug/l

RT: 1.73 min Scan# 138

Delta R.T. 0.02 min

Lab File: VX015570.D

Acq: 08 Apr 2020 15:39

Instrument :

MSVOA_X

ClientSampleId :

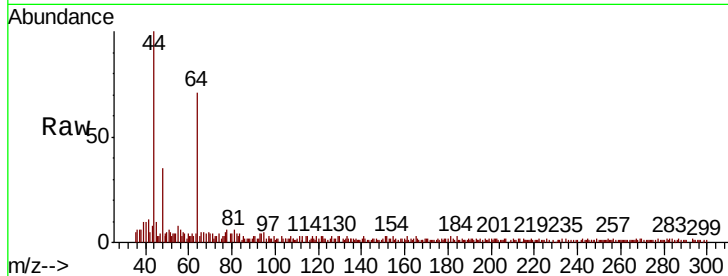
KY062MW140-200407

Tot Ion: 64 Resp: 2854

Ion Ratio Lower Upper

64 100

66 0.0 25.4 38.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.73

10000

8000

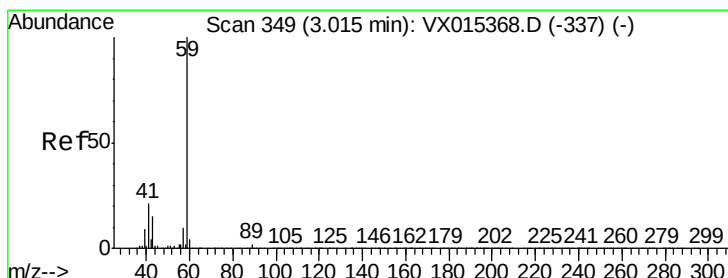
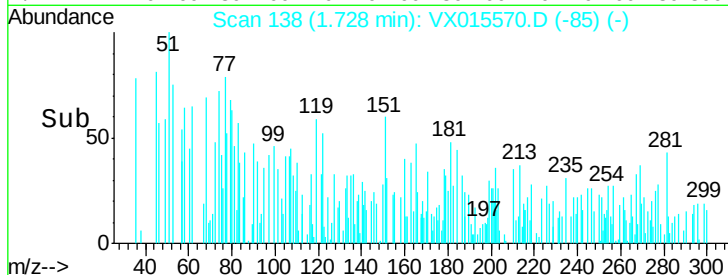
6000

4000

2000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.061 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.01 min

Lab File: VX015570.D

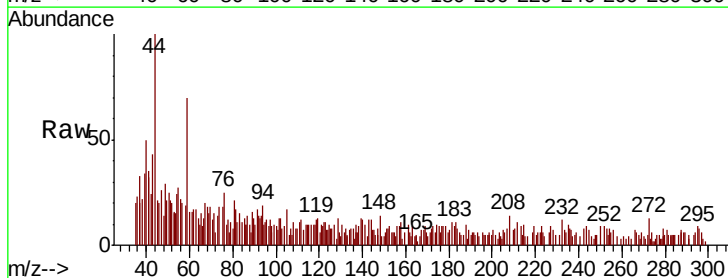
Acq: 08 Apr 2020 15:39

Tgt Ion: 59 Resp: 3872

Ion Ratio Lower Upper

59 100

57 22.1 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.01

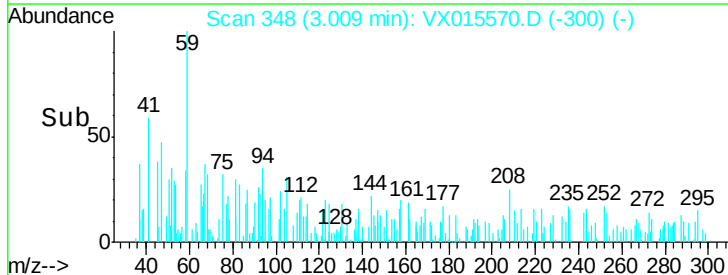
1500

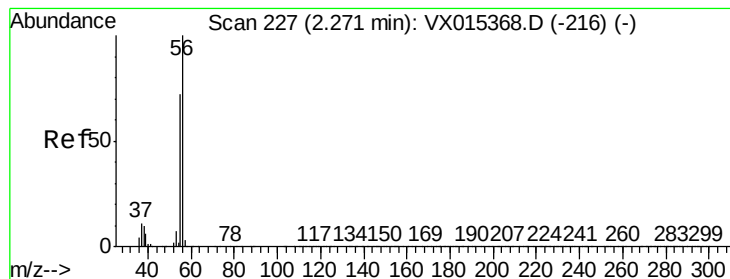
1000

500

0

Time-->





#13

Acrolein

Concen: 0.332 ug/l

RT: 2.23 min Scan# 221

Delta R.T. -0.04 min

Lab File: VX015570.D

Acq: 08 Apr 2020 15:39

Instrument :

MSVOA_X

ClientSampleId :

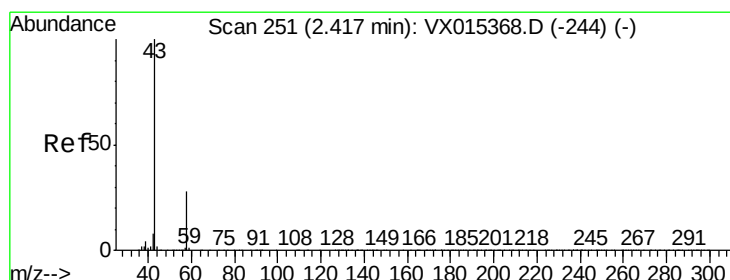
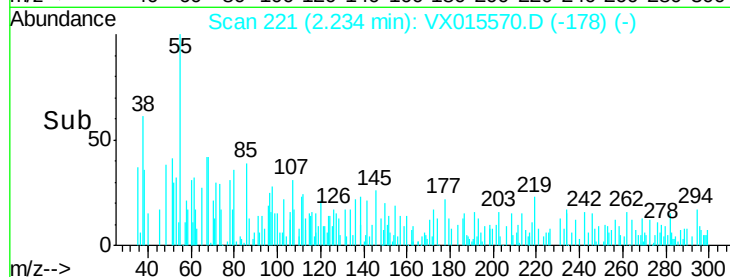
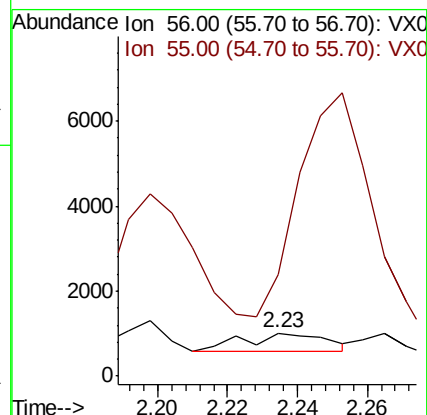
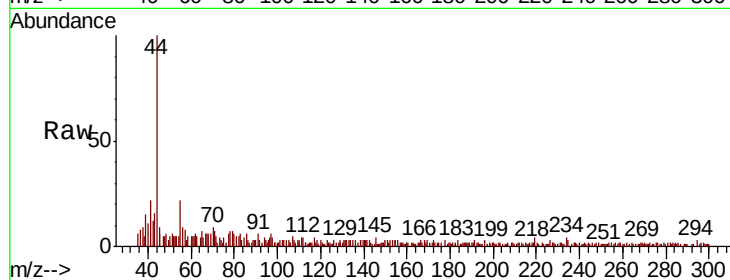
KY062MW140-200407

Tot Ion: 56 Resp: 690

Ion Ratio Lower Upper

56 100

55 1595.9 57.0 85.4#



#16

Acetone

Concen: 1.692 ug/l

RT: 2.42 min Scan# 251

Delta R.T. -0.00 min

Lab File: VX015570.D

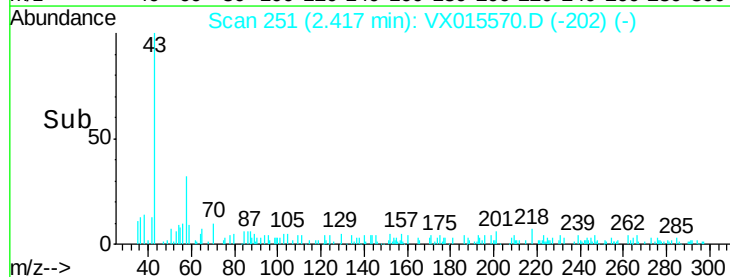
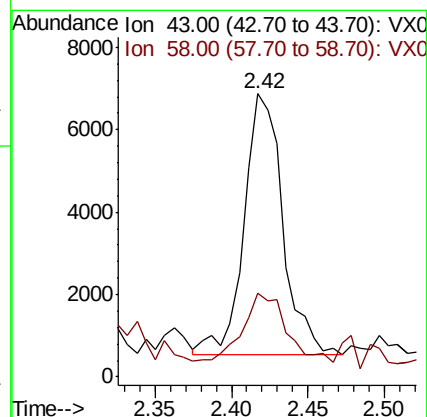
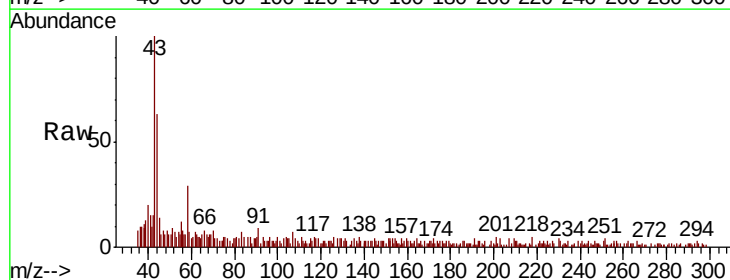
Acq: 08 Apr 2020 15:39

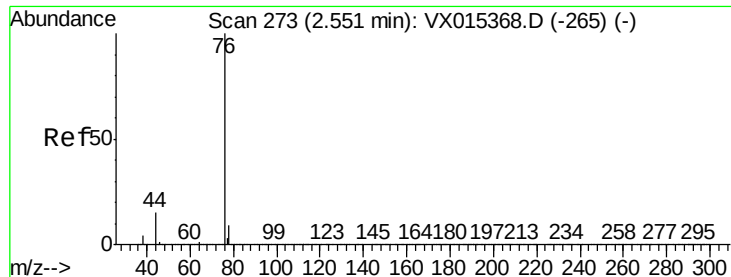
Tgt Ion: 43 Resp: 11086

Ion Ratio Lower Upper

43 100

58 25.6 22.1 33.1





#17

Carbon Disulfide

Concen: 0.407 ug/l

RT: 2.56 min Scan# 274

Delta R.T. 0.01 min

Lab File: VX015570.D

Acq: 08 Apr 2020 15:39

Instrument :

MSVOA_X

ClientSampleId :

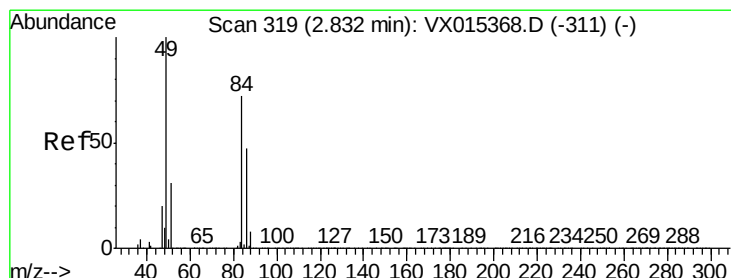
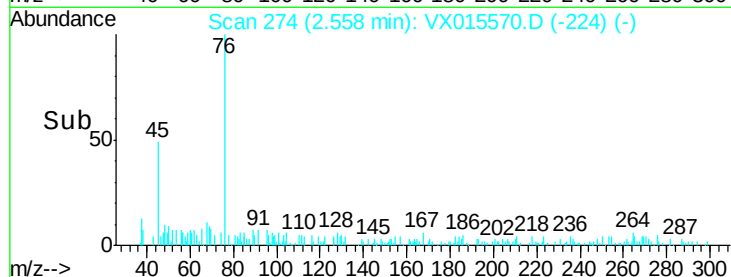
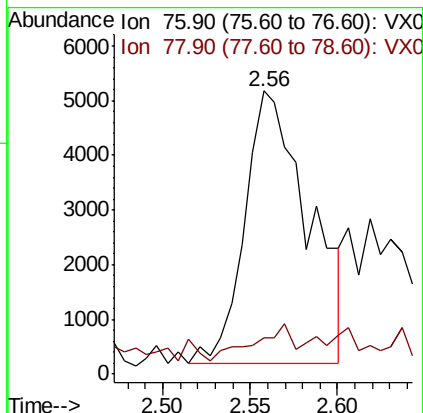
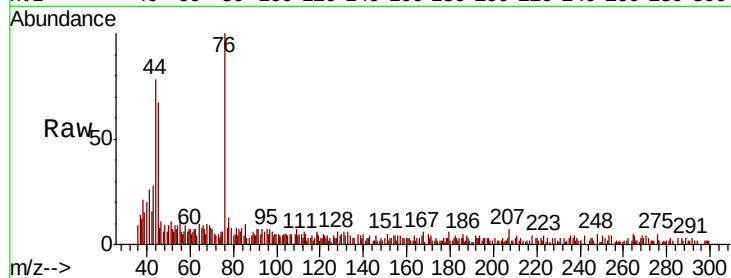
KY062MW140-200407

Tot Ion: 76 Resp: 12688

Ion Ratio Lower Upper

76 100

78 0.4 7.1 10.7#



#20

Methylene Chloride

Concen: 0.296 ug/l

RT: 2.84 min Scan# 320

Delta R.T. 0.01 min

Lab File: VX015570.D

Acq: 08 Apr 2020 15:39

Tgt Ion: 84 Resp: 3623

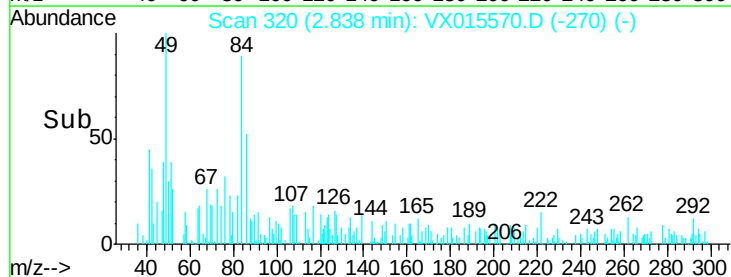
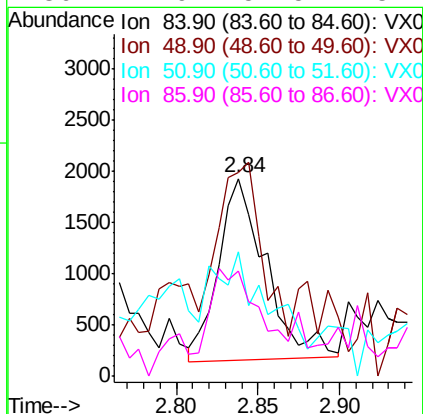
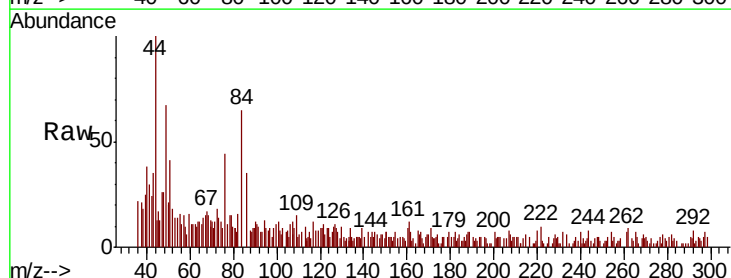
Ion Ratio Lower Upper

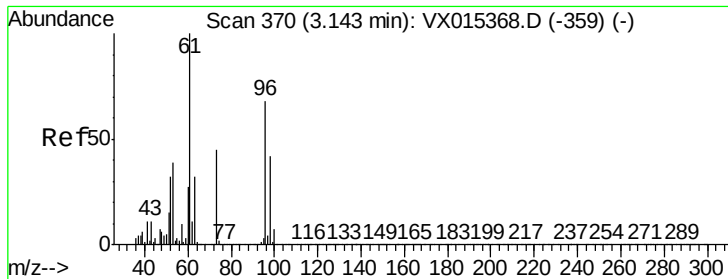
84 100

49 83.2 111.3 166.9#

51 43.3 34.0 51.0

86 47.9 52.5 78.7#





#21

trans-1,2-Dichloroethene

Concen: 1.257 ug/l

RT: 3.14 min Scan# 370

Delta R.T. -0.00 min

Lab File: VX015570.D

Acq: 08 Apr 2020 15:39

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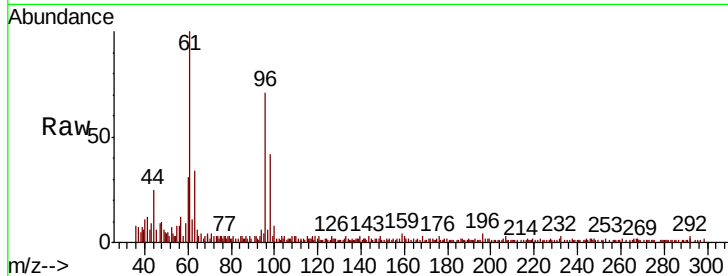
Tot Ion: 96 Resp: 14241

Ion Ratio Lower Upper

96 100

61 135.1 116.9 175.3

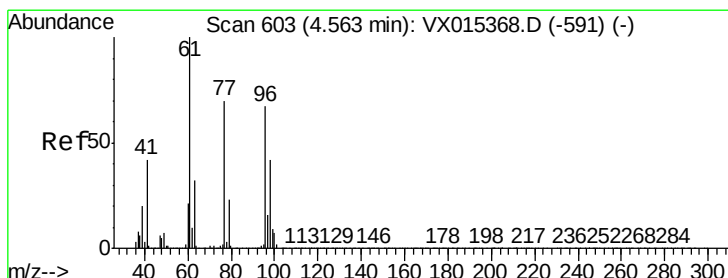
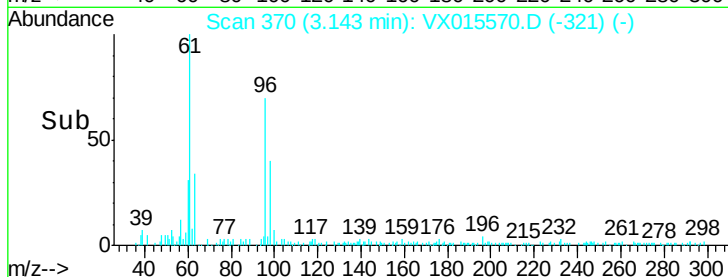
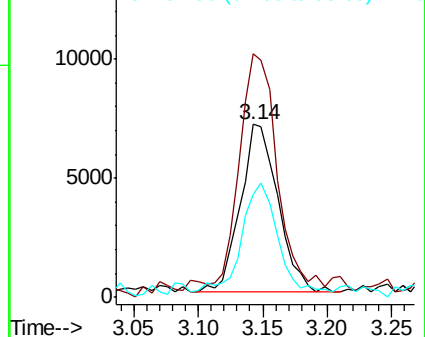
98 58.0 48.6 73.0



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 7.921 ug/l

RT: 4.57 min Scan# 604

Delta R.T. 0.01 min

Lab File: VX015570.D

Acq: 08 Apr 2020 15:39

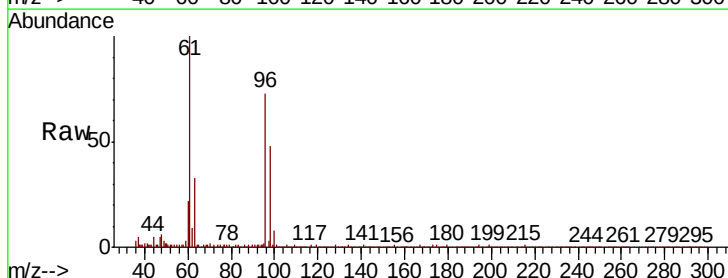
Tgt Ion: 96 Resp: 103837

Ion Ratio Lower Upper

96 100

61 133.0 0.0 308.4

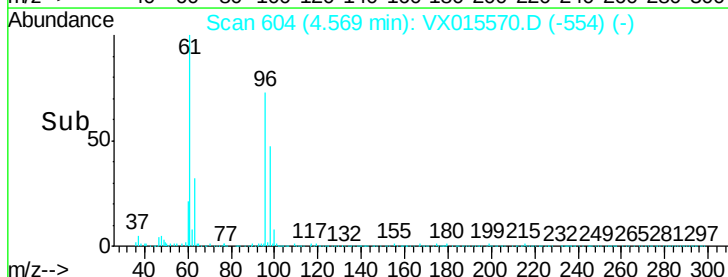
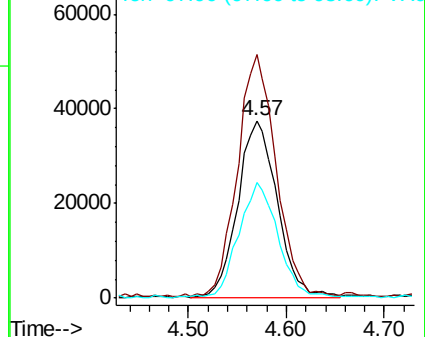
98 65.2 0.0 129.2

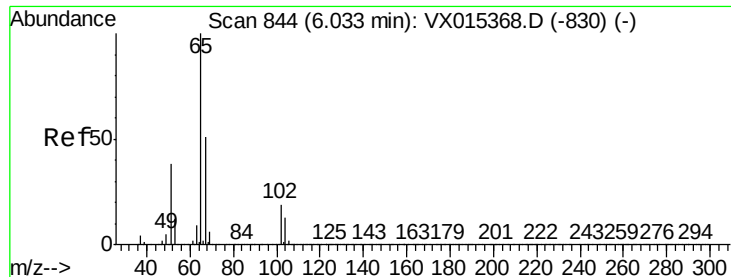


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 47.238 ug/l

RT: 6.03 min Scan# 844

Delta R.T. -0.00 min

Lab File: VX015570.D

Acq: 08 Apr 2020 15:39

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KY062MW140-200407

Tot Ion: 65 Resp: 720490

Ion Ratio Lower Upper

65 100

67 50.0 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.03

300000

250000

200000

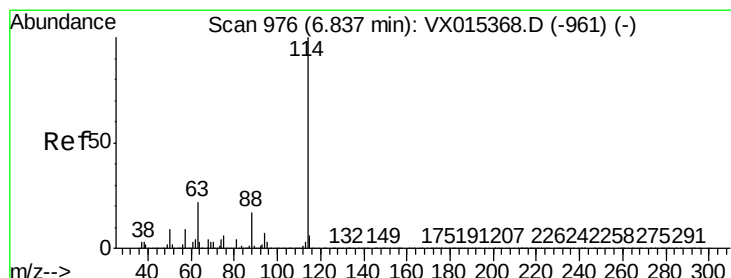
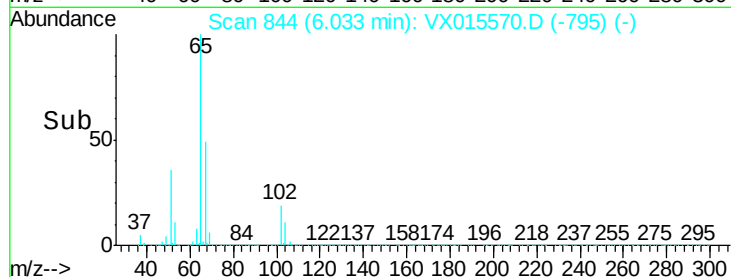
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 976

Delta R.T. -0.00 min

Lab File: VX015570.D

Acq: 08 Apr 2020 15:39

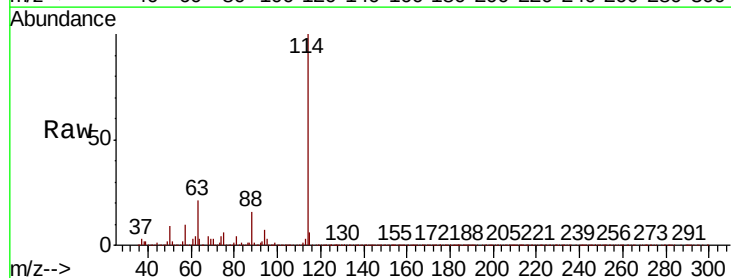
Tgt Ion:114 Resp: 1710728

Ion Ratio Lower Upper

114 100

63 21.2 0.0 44.2

88 16.2 0.0 33.8



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

1000000

800000

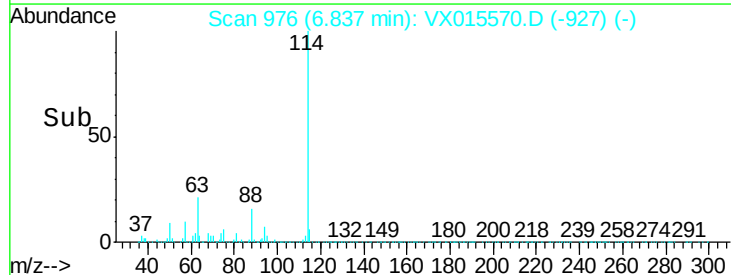
600000

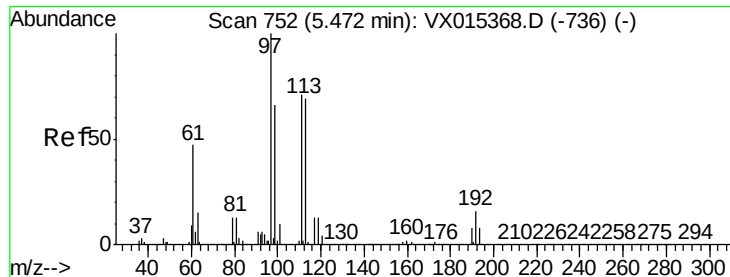
400000

200000

0

Time-->

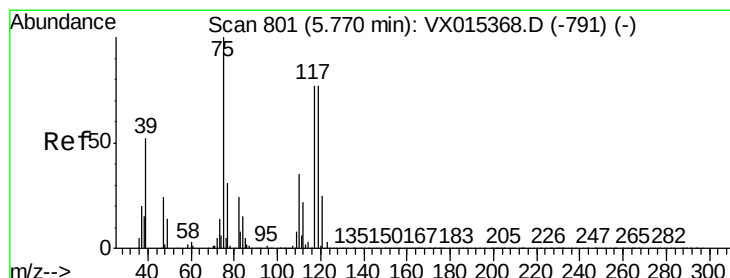
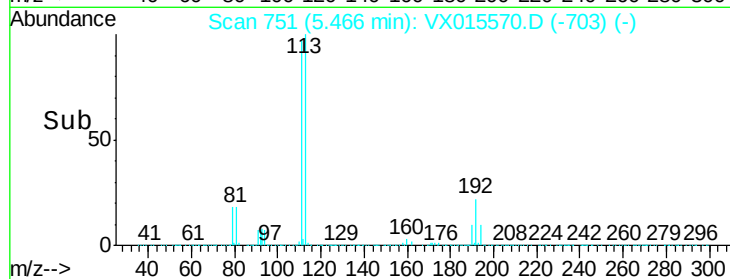
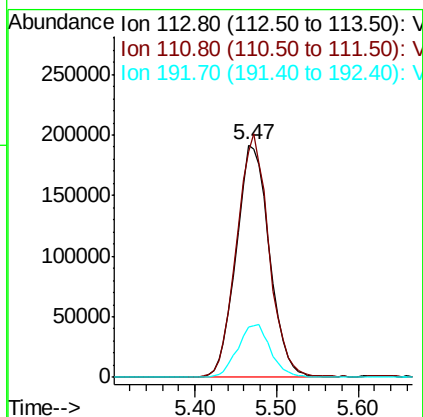
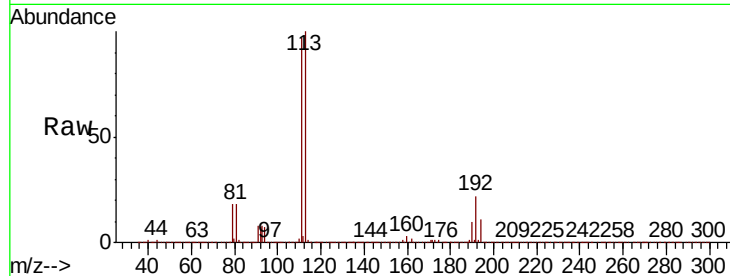




#35
 Dibromofluoromethane
 Concen: 49.626 ug/l
 RT: 5.47 min Scan# 751
 Delta R.T. -0.01 min
 Lab File: VX015570.D
 Acq: 08 Apr 2020 15:39

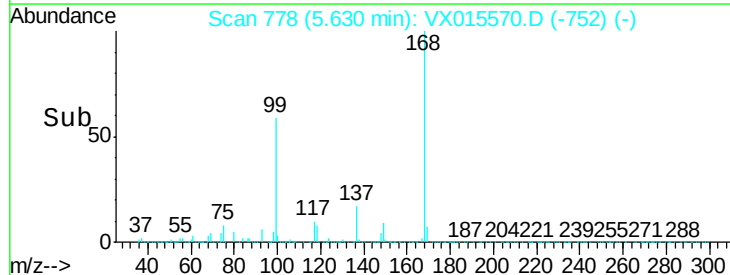
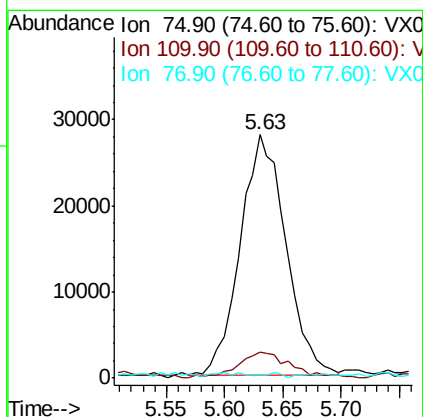
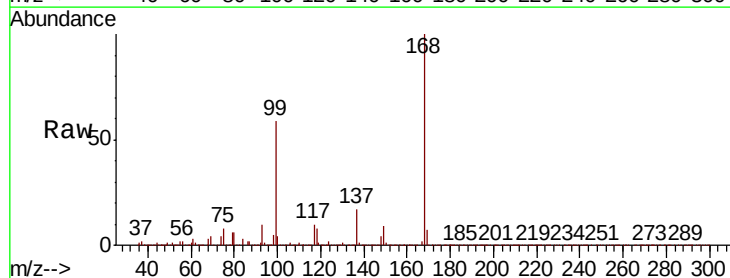
Instrument :
 MSVOA_X
 ClientSampleId :
 KY062MW140-200407

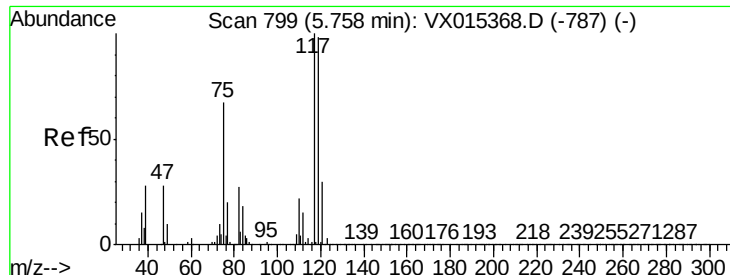
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.5	122.3
192	22.2	17.8	26.6



#36
 1,1-Dichloropropene
 Concen: 4.851 ug/l
 RT: 5.63 min Scan# 778
 Delta R.T. -0.14 min
 Lab File: VX015570.D
 Acq: 08 Apr 2020 15:39

Tgt Ion	Ratio	Lower	Upper
75	100		
110	12.6	17.1	51.3#
77	0.9	24.6	36.8#

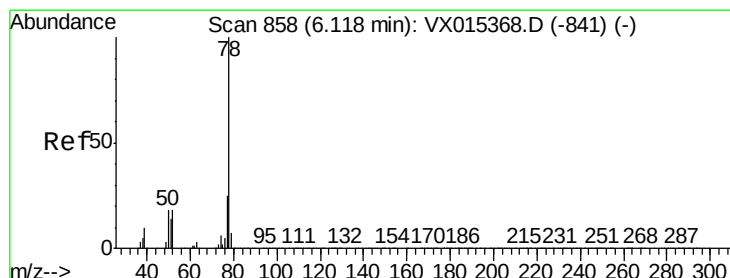
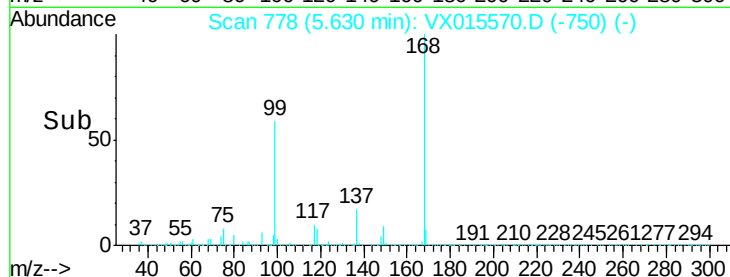
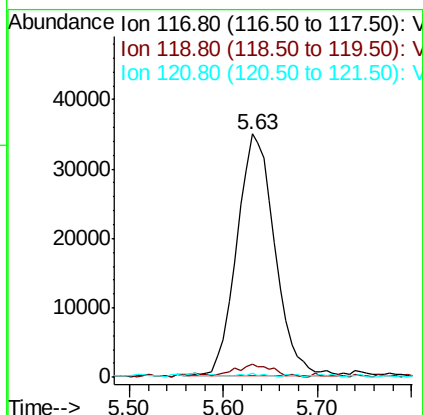
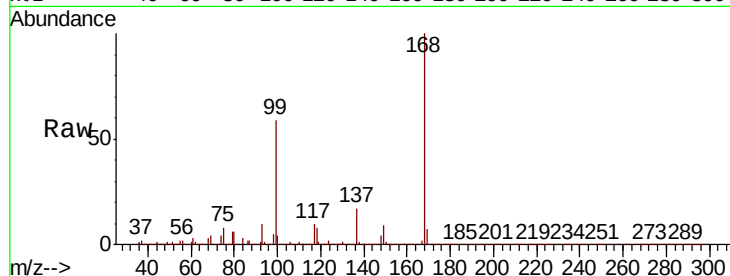




#38
Carbon Tetrachloride
Concen: 5.762 ug/l
RT: 5.63 min Scan# 778
Delta R.T. -0.13 min
Lab File: VX015570.D
Acq: 08 Apr 2020 15:39

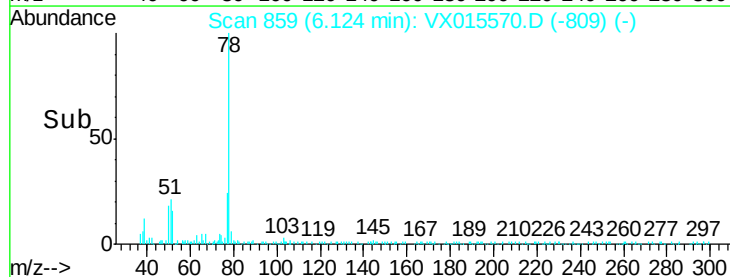
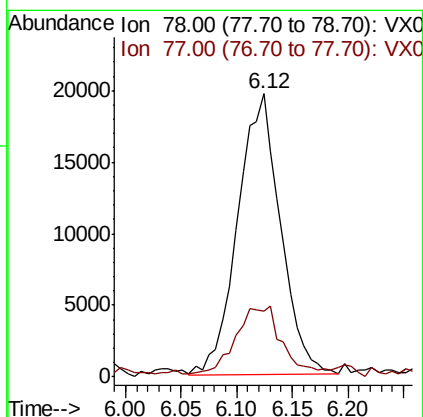
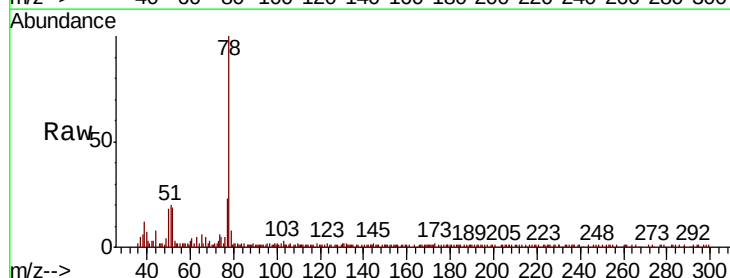
Instrument :
MSVOA_X
ClientSampleId :
KY062MW140-200407

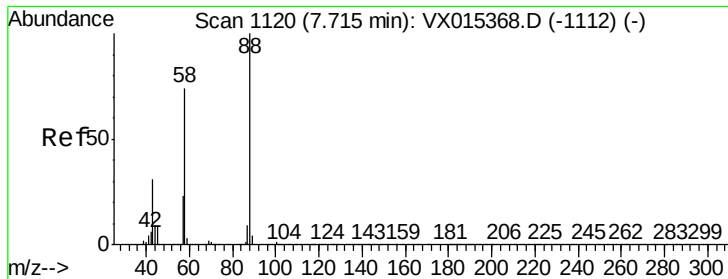
Tot Ion:117 Resp: 98363
Ion Ratio Lower Upper
117 100
119 4.8 78.0 117.0#
121 0.8 23.8 35.8#



#40
Benzene
Concen: 1.140 ug/l
RT: 6.12 min Scan# 859
Delta R.T. 0.01 min
Lab File: VX015570.D
Acq: 08 Apr 2020 15:39

Tgt Ion: 78 Resp: 52629
Ion Ratio Lower Upper
78 100
77 22.2 19.8 29.8





#49

1,4-Dioxane

Concen: 0.477 ug/l

RT: 7.70 min Scan# 1117

Delta R.T. -0.02 min

Lab File: VX015570.D

Acq: 08 Apr 2020 15:39

Instrument :

MSVOA_X

ClientSampleId :

KY062MW140-200407

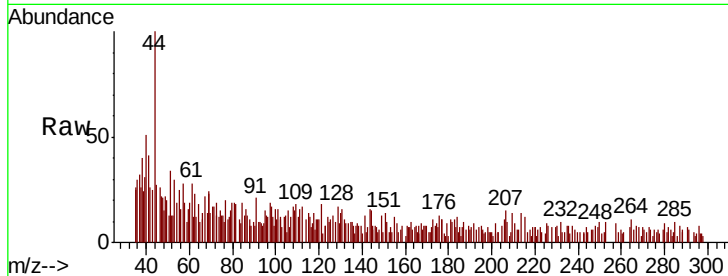
Tot Ion: 88 Resp: 154

Ion Ratio Lower Upper

88 100

43 0.0 30.1 45.1#

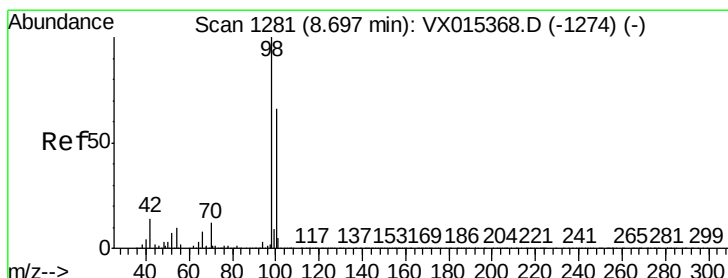
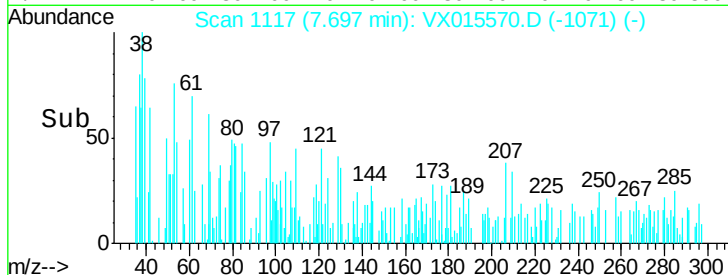
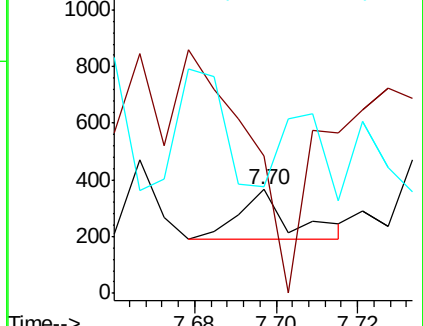
58 150.0 60.6 90.8#



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: 50.839 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VX015570.D

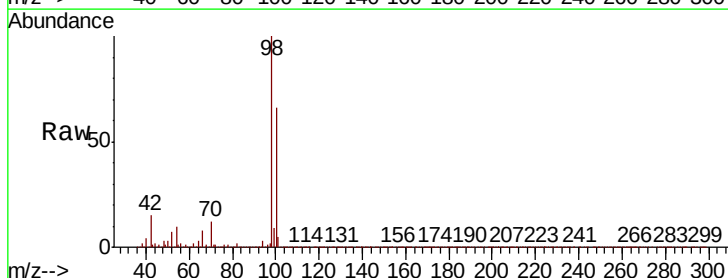
Acq: 08 Apr 2020 15:39

Tgt Ion: 98 Resp: 2046830

Ion Ratio Lower Upper

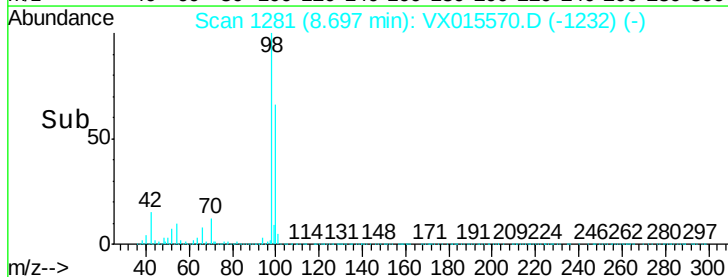
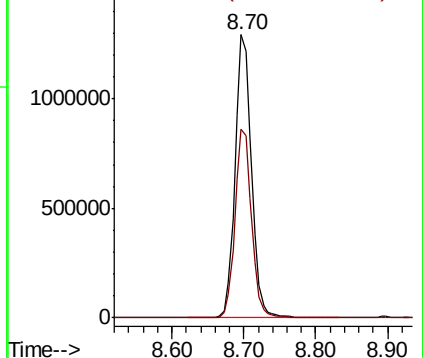
98 100

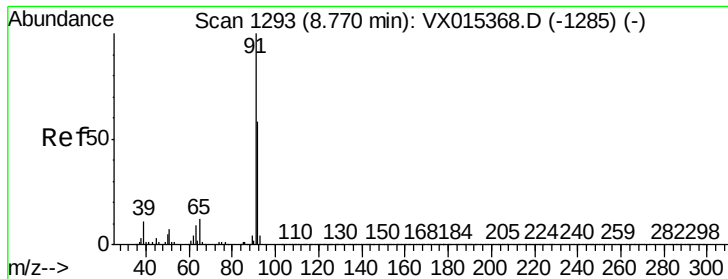
100 67.3 53.5 80.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#52

Toluene

Concen: 0.213 ug/l

RT: 8.77 min Scan# 1293

Delta R.T. -0.00 min

Lab File: VX015570.D

Acq: 08 Apr 2020 15:39

Instrument :

MSVOA_X

ClientSampleId :

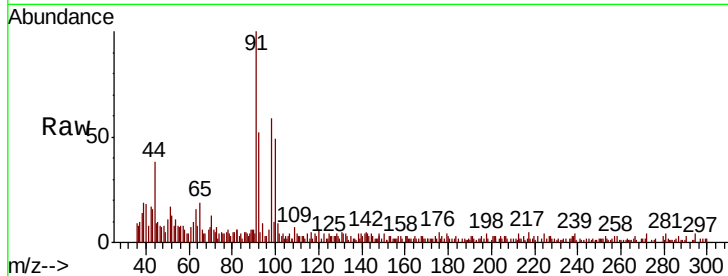
KY062MW140-200407

Tot Ion: 92 Resp: 6062

Ion Ratio Lower Upper

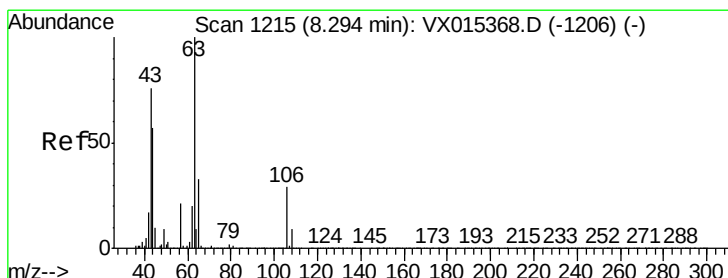
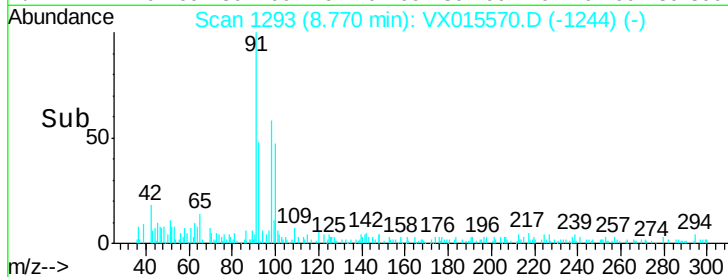
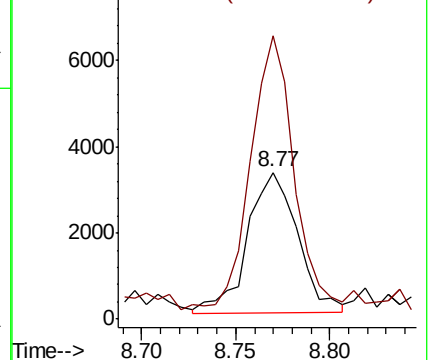
92 100

91 160.3 136.6 205.0



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#58

2-Chloroethyl Vinyl ether

Concen: 0.218 ug/l

RT: 8.23 min Scan# 1205

Delta R.T. -0.06 min

Lab File: VX015570.D

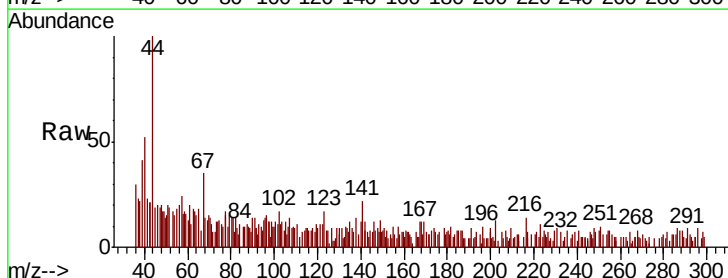
Acq: 08 Apr 2020 15:39

Tgt Ion: 63 Resp: 2179

Ion Ratio Lower Upper

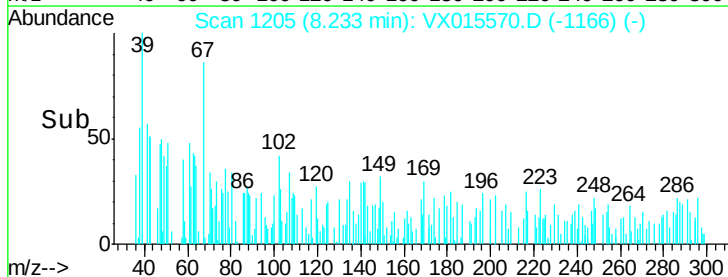
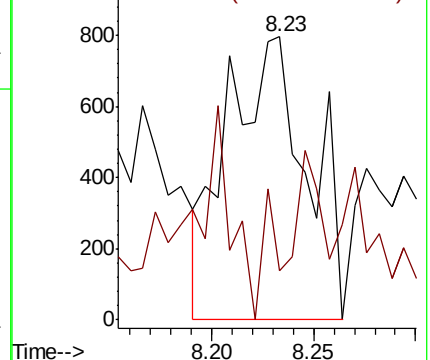
63 100

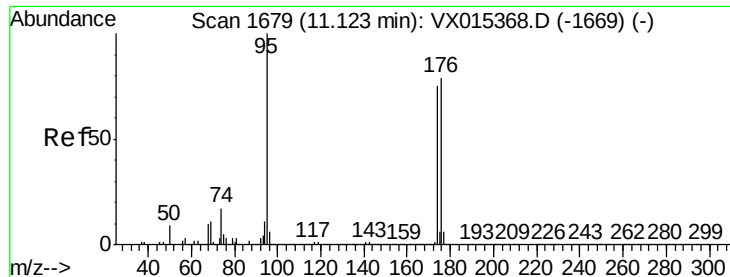
106 28.5 22.7 34.1



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V

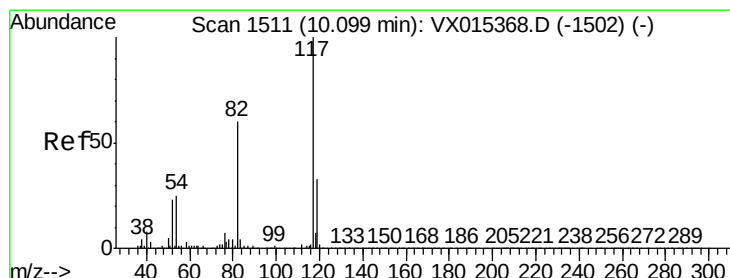
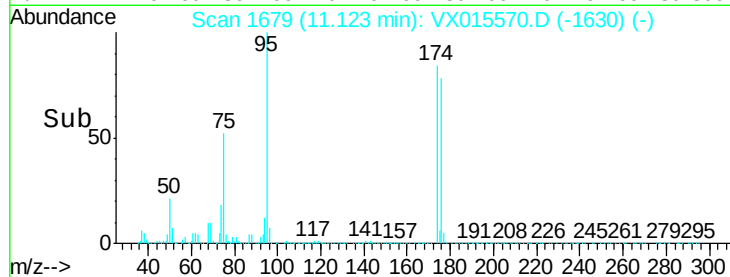
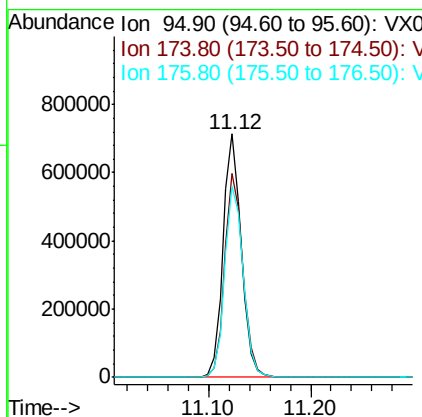
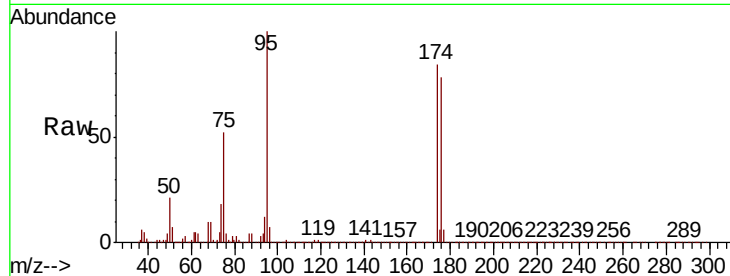




#62
4-Bromofluorobenzene
Concen: 54.115 ug/l
RT: 11.12 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VX015570.D
Acq: 08 Apr 2020 15:39

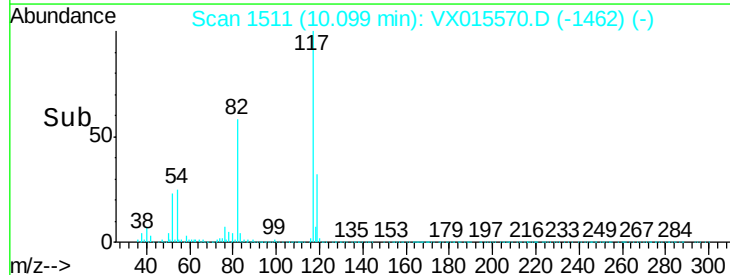
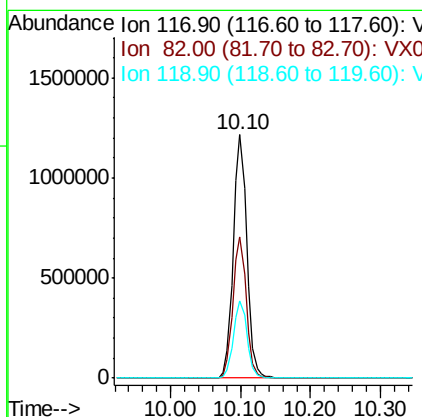
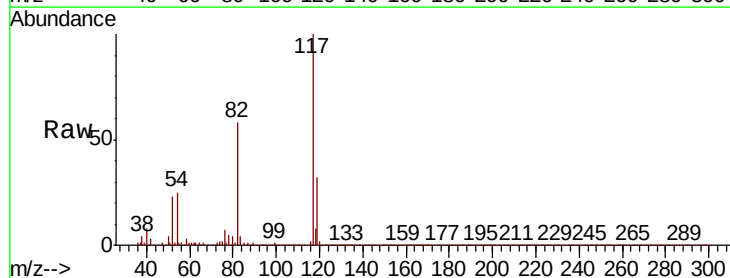
Instrument :
MSVOA_X
ClientSampleId :
KY062MW140-200407

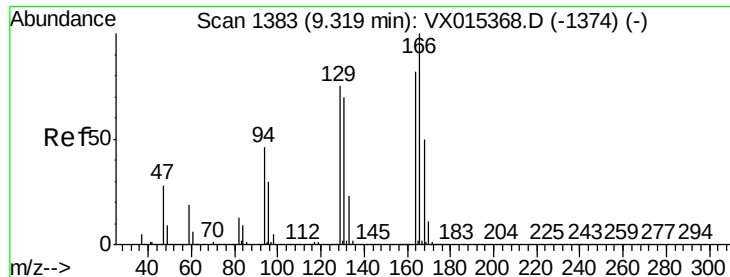
Tot Ion	95	Resp	885440
Ion Ratio	100		
174	83.8	0.0	158.6
176	79.9	0.0	159.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1511
Delta R.T. -0.00 min
Lab File: VX015570.D
Acq: 08 Apr 2020 15:39

Tgt Ion	117	Resp	1644984
Ion Ratio	100		
82	58.1	47.8	71.8
119	31.8	26.8	40.2





#64

Tetrachloroethene

Concen: 0.208 ug/l

RT: 9.32 min Scan# 1384

Delta R.T. 0.01 min

Lab File: VX015570.D

Acq: 08 Apr 2020 15:39

Instrument :

MSVOA_X

ClientSampleId :

KY062MW140-200407

Tot Ion:164 Resp: 2588

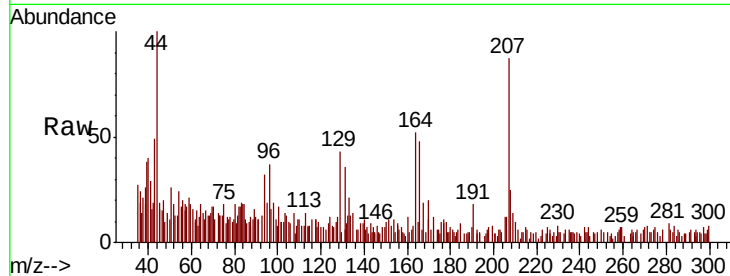
Ion Ratio Lower Upper

164 100

166 79.7 97.8 146.6#

129 73.1 73.0 109.4

131 74.9 68.6 103.0

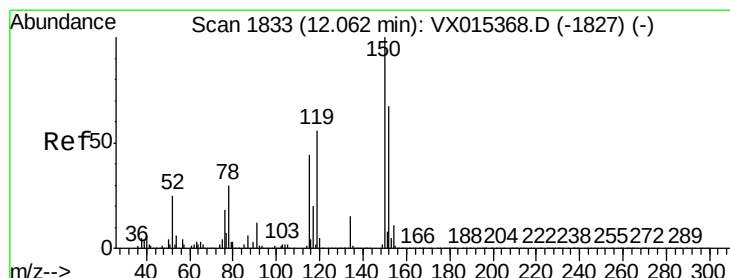
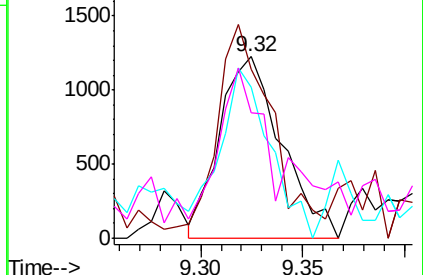
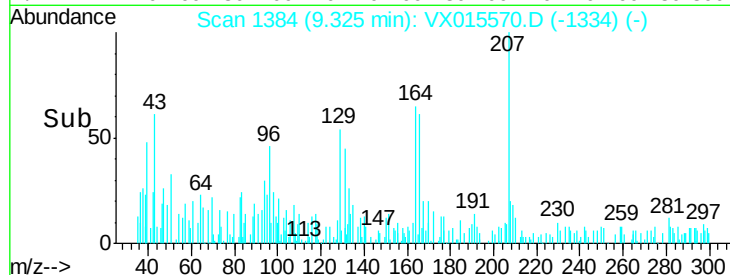


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VX015570.D

Acq: 08 Apr 2020 15:39

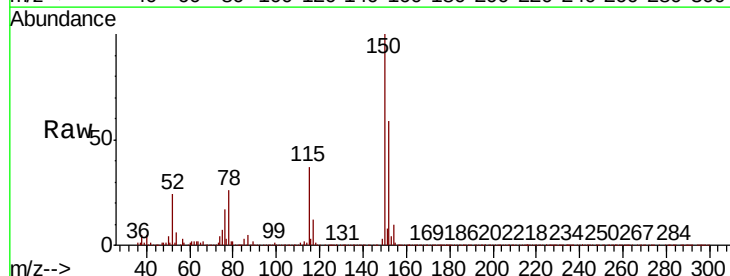
Tgt Ion:152 Resp: 897220

Ion Ratio Lower Upper

152 100

115 58.4 39.0 116.9

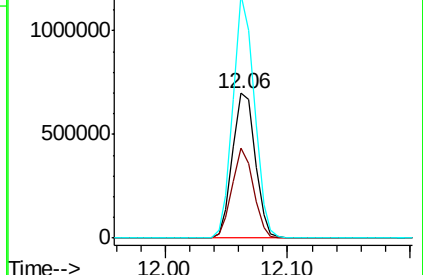
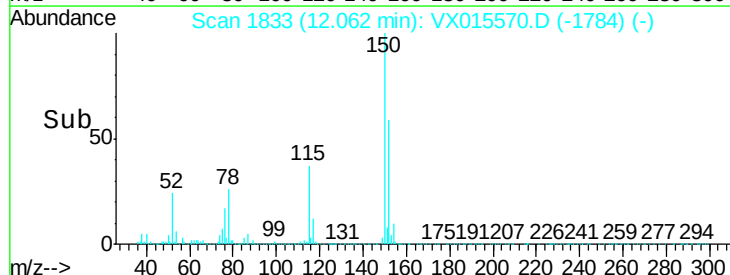
150 157.6 0.0 340.8

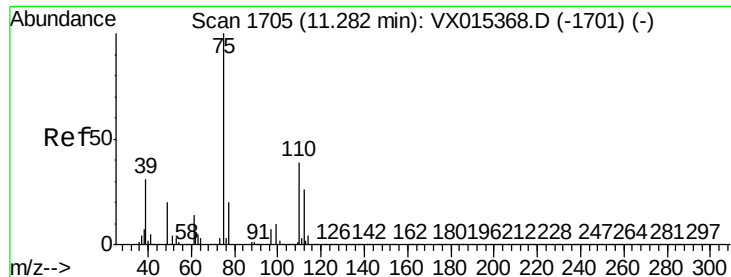


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.908 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015570.D

Acq: 08 Apr 2020 15:39

Instrument :

MSVOA_X

ClientSampleId :

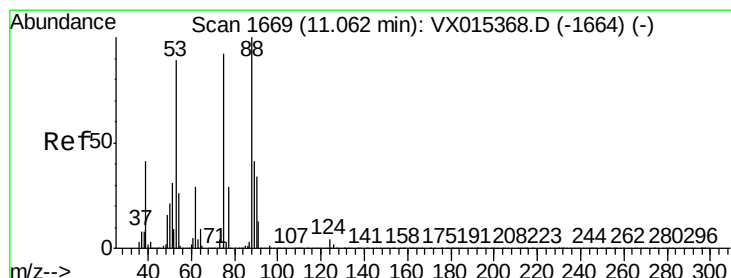
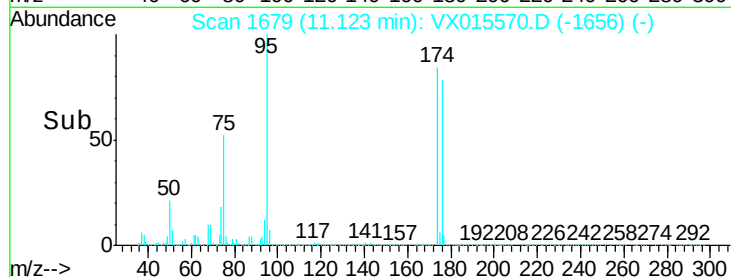
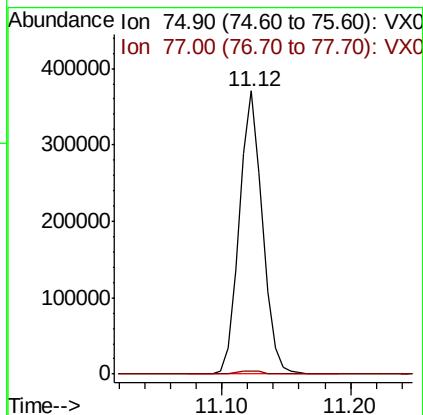
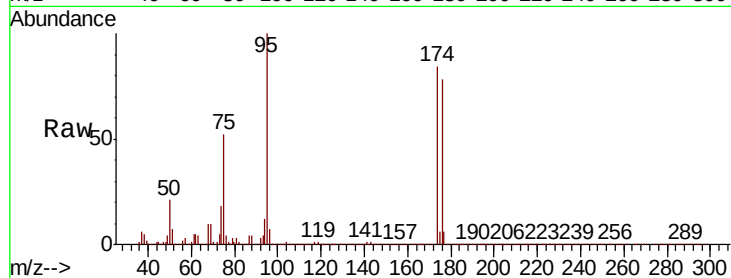
KY062MW140-200407

Tot Ion: 75 Resp: 459571

Ion Ratio Lower Upper

75 100

77 1.2 21.2 63.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 59.766 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015570.D

Acq: 08 Apr 2020 15:39

Tgt Ion: 75 Resp: 459571

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 36.1 54.1#

