

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041020\
 Data File : VX015626.D
 Acq On : 10 Apr 2020 17:04
 Operator : JC/SP
 Sample : L2190-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY062MW139-200407

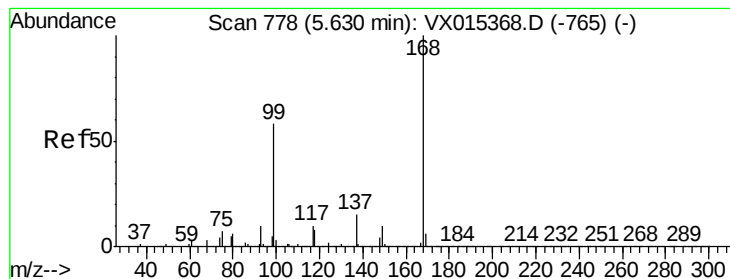
Quant Time: Apr 11 00:33:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 09:35:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	1104194	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1696928	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1623180	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	888389	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	696017	44.69	ug/l	0.00
Spiked Amount			Recovery	=	89.38%	
35) Dibromofluoromethane	5.47	113	511355	47.14	ug/l	0.00
Spiked Amount			Recovery	=	94.28%	
50) Toluene-d8	8.70	98	2026925	50.75	ug/l	0.00
Spiked Amount			Recovery	=	101.50%	
62) 4-Bromofluorobenzene	11.12	95	876802	54.02	ug/l	0.00
Spiked Amount			Recovery	=	108.04%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.39	62	3312	0.291	ug/l #	81
5) Bromomethane	1.61	94	283	Below Cal	#	43
9) 1,1,2-Trichlorotrifluoroet	2.37	101	2351	0.236	ug/l #	83
11) Tert butyl alcohol	3.00	59	2212	0.593	ug/l #	68
12) 1,1-Dichloroethene	2.36	96	3157	0.303	ug/l #	75
13) Acrolein	2.29	56	536	0.252	ug/l	86
15) Acrylonitrile	3.13	53	1710	0.241	ug/l #	56
16) Acetone	2.42	43	19664	2.939	ug/l	99
17) Carbon Disulfide	2.55	76	7628	0.240	ug/l #	89
18) Methyl Acetate	2.58	43	23464	1.374	ug/l #	57
20) Methylene Chloride	2.84	84	4940	0.395	ug/l #	75
21) trans-1,2-Dichloroethene	3.15	96	8689	0.751	ug/l	97
27) cis-1,2-Dichloroethene	4.57	96	244454	18.263	ug/l	91
30) Chloroform	5.18	83	4568	0.209	ug/l	94
36) 1,1-Dichloropropene	5.64	75	79690	5.097	ug/l #	53
38) Carbon Tetrachloride	5.64	117	103057	6.086	ug/l #	15
44) Trichloroethene	7.20	130	128543	10.291	ug/l	89
49) 1,4-Dioxane	7.72	88	962	3.004	ug/l #	20
60) Dibromochloromethane	9.32	129	1041254	74.903	ug/l #	11
64) Tetrachloroethene	9.32	164	1171922	95.669	ug/l	97
76) 1,2,3-Trichloropropane	11.12	75	449702	24.616	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	449702	59.064	ug/l #	10
88) 1,4-Dichlorobenzene	12.08	146	5826	0.206	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	12.99	75	1153	0.205	ug/l	87
93) 1,2,4-Trichlorobenzene	13.63	180	6113	0.284	ug/l	85
94) Hexachlorobutadiene	13.77	225	2692	0.263	ug/l	83
96) 1,2,3-Trichlorobenzene	14.00	180	5527	0.267	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 779

Delta R.T. 0.01 min

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Instrument :

MSVOA_X

ClientSampleId :

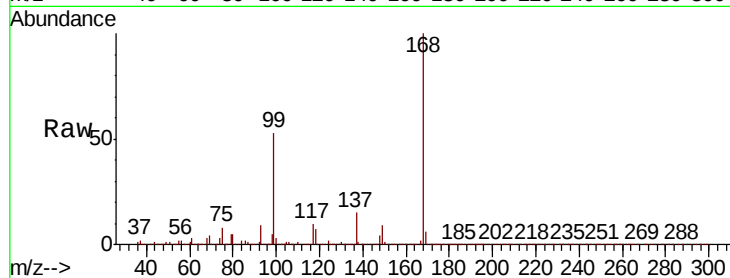
KY062MW139-200407

Tot Ion:168 Resp: 1104194

Ion Ratio Lower Upper

168 100

99 53.3 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

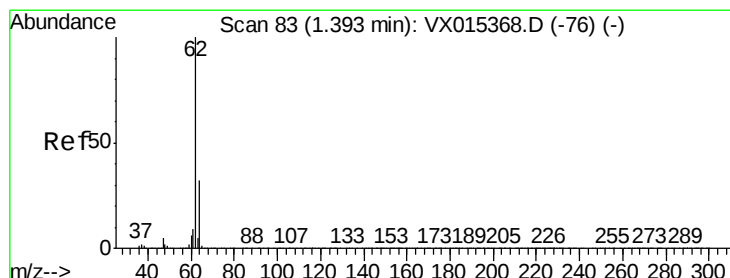
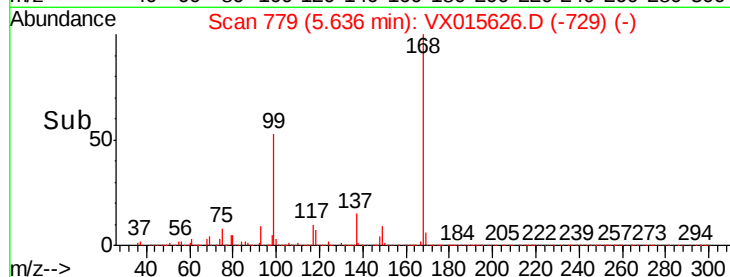
300000

200000

100000

0

Time-->



#4

Vinyl Chloride

Concen: 0.291 ug/l

RT: 1.39 min Scan# 83

Delta R.T. -0.00 min

Lab File: VX015626.D

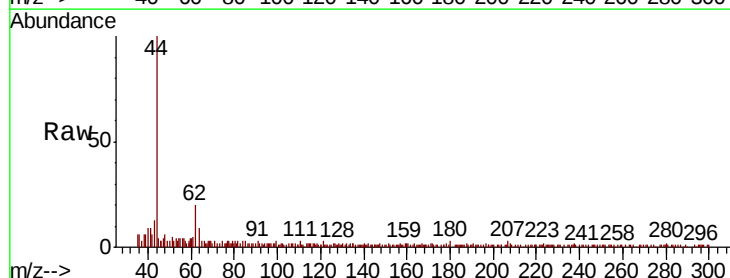
Acq: 10 Apr 2020 17:04

Tgt Ion: 62 Resp: 3312

Ion Ratio Lower Upper

62 100

64 21.9 26.0 39.0#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.39

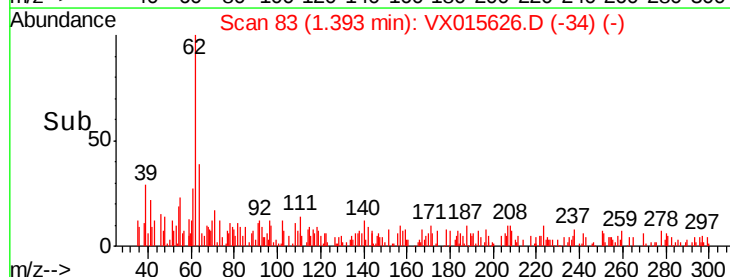
3000

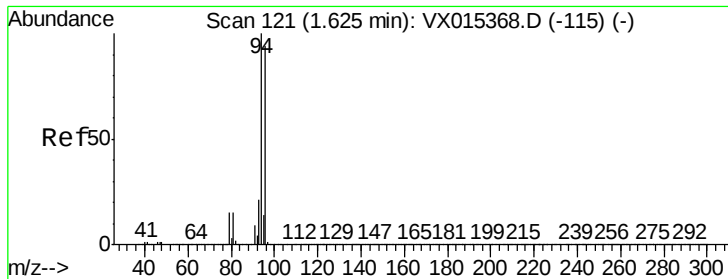
2000

1000

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 119

Delta R.T. -0.01 min

Lab File: VX015626.D

Acq: 10 Apr 2020 17:04

Instrument :

MSVOA_X

ClientSampleId :

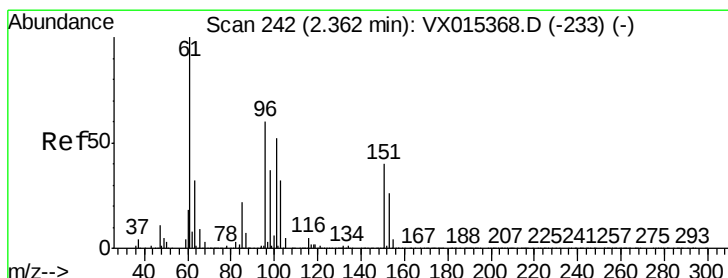
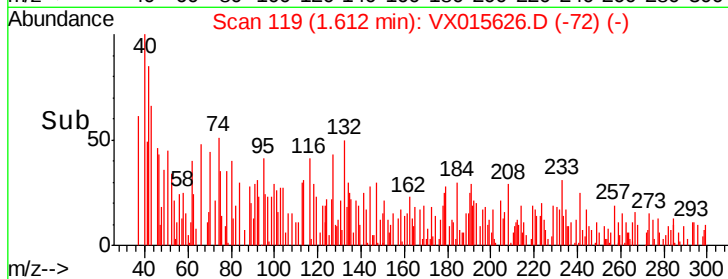
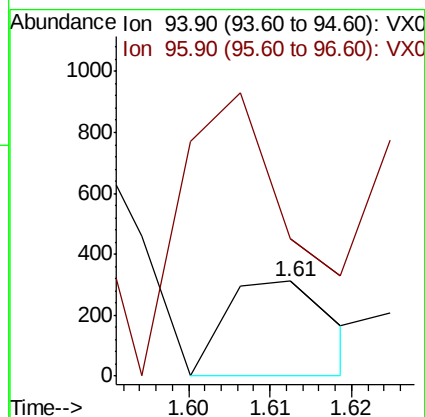
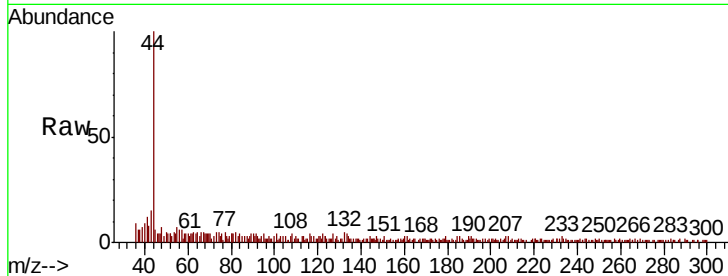
KY062MW139-200407

Tot Ion: 94 Resp: 283

Ion Ratio Lower Upper

94 100

96 38.3 74.8 112.2#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.236 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.01 min

Lab File: VX015626.D

Acq: 10 Apr 2020 17:04

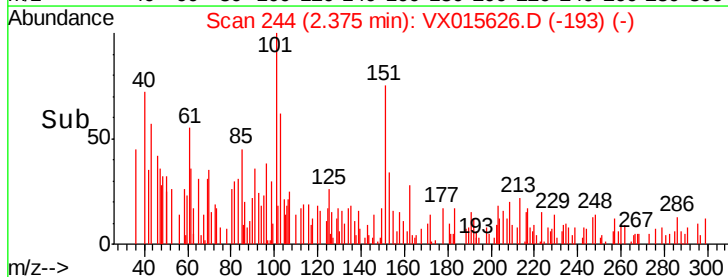
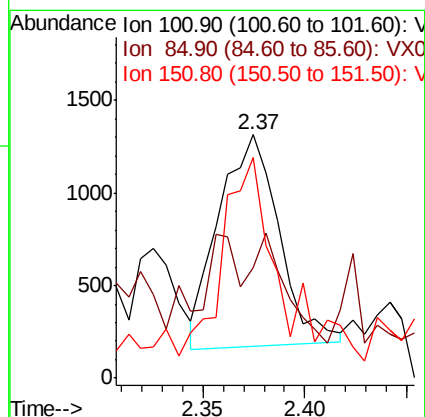
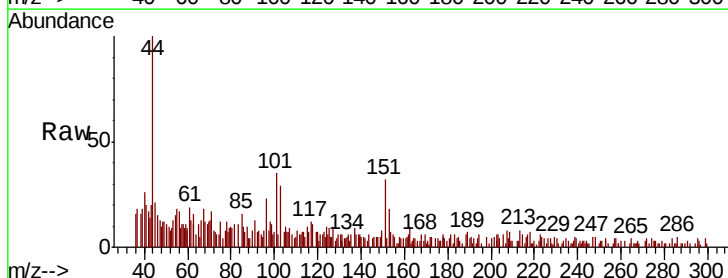
Tgt Ion:101 Resp: 2351

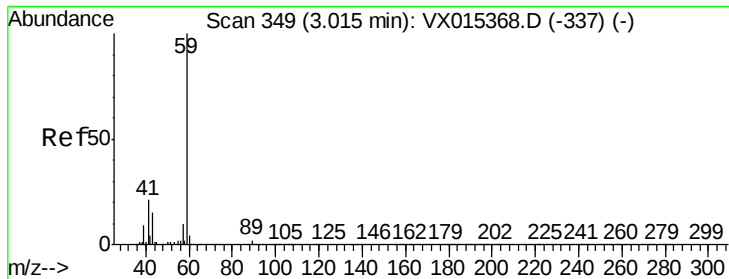
Ion Ratio Lower Upper

101 100

85 26.3 35.0 52.4#

151 90.6 64.1 96.1





#11

Tert butyl alcohol

Concen: 0.593 ug/l

RT: 3.00 min Scan# 347

Delta R.T. -0.01 min

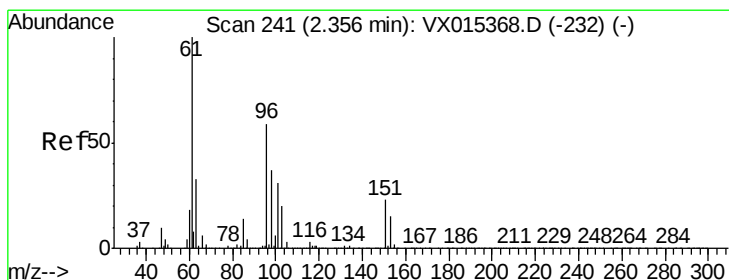
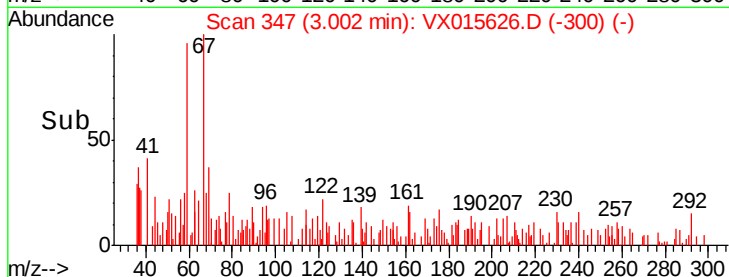
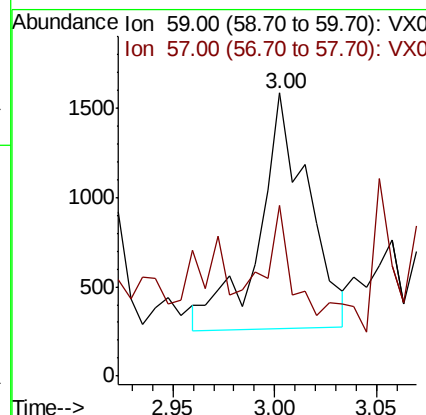
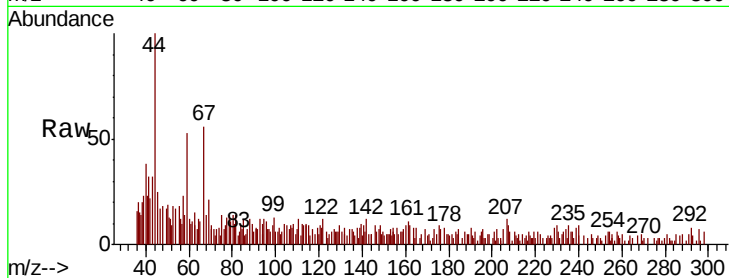
Lab File: VX015626.D

Acq: 10 Apr 2020 17:04

Instrument :
MSVOA_X
ClientSampleId :
KY062MW139-200407

Tot Ion: 59 Resp: 2212

Ion	Ratio	Lower	Upper
59	100		
57	22.0	8.1	12.1#



#12

1,1-Dichloroethene

Concen: 0.303 ug/l

RT: 2.36 min Scan# 241

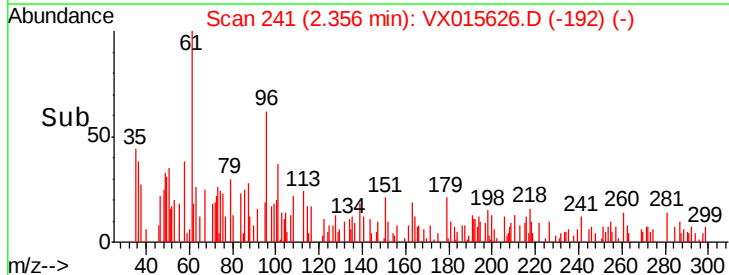
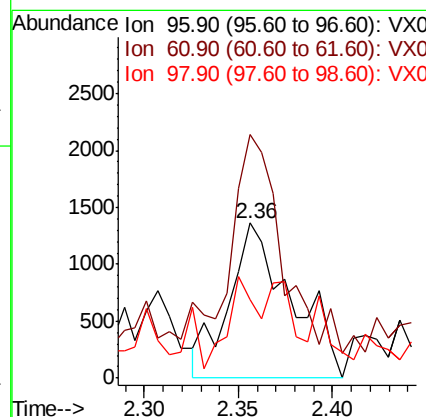
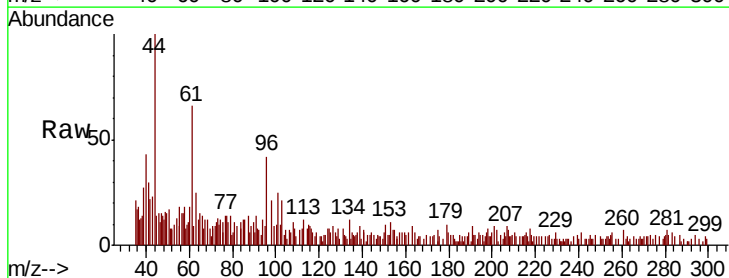
Delta R.T. -0.00 min

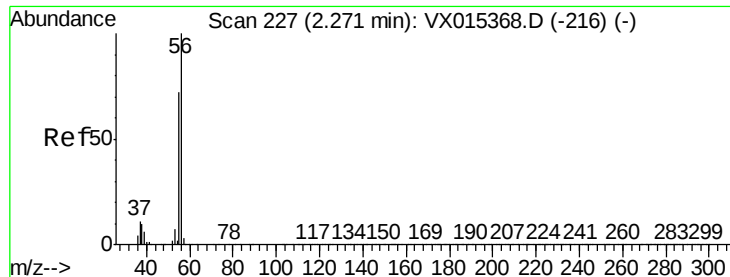
Lab File: VX015626.D

Acq: 10 Apr 2020 17:04

Tgt Ion: 96 Resp: 3157

Ion	Ratio	Lower	Upper
96	100		
61	140.8	135.7	203.5
98	34.2	50.6	75.8#





#13

Acrolein

Concen: 0.252 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.02 min

Lab File: VX015626.D

Acq: 10 Apr 2020 17:04

Instrument :

MSVOA_X

ClientSampleId :

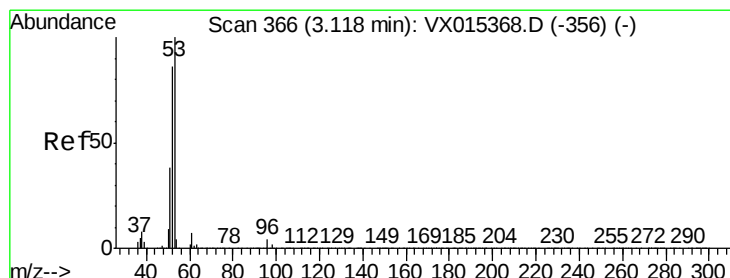
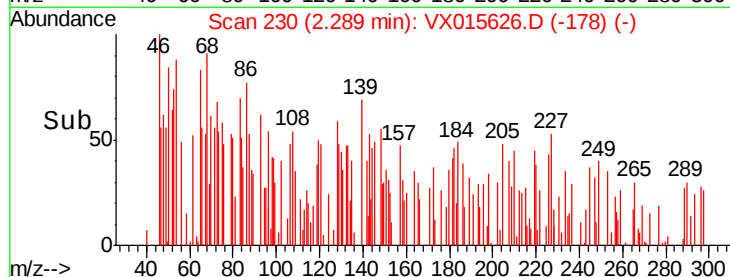
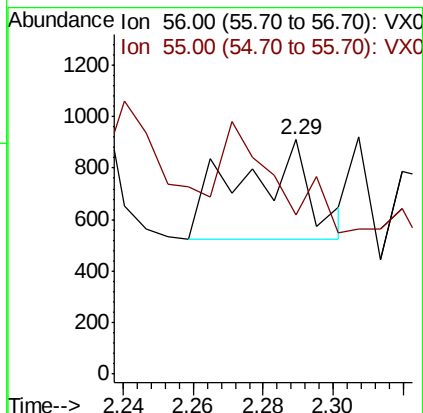
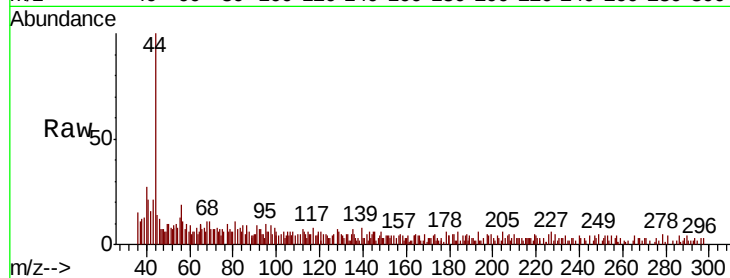
KY062MW139-200407

Tot Ion: 56 Resp: 536

Ion Ratio Lower Upper

56 100

55 82.8 57.0 85.4



#15

Acrylonitrile

Concen: 0.241 ug/l

RT: 3.13 min Scan# 368

Delta R.T. 0.01 min

Lab File: VX015626.D

Acq: 10 Apr 2020 17:04

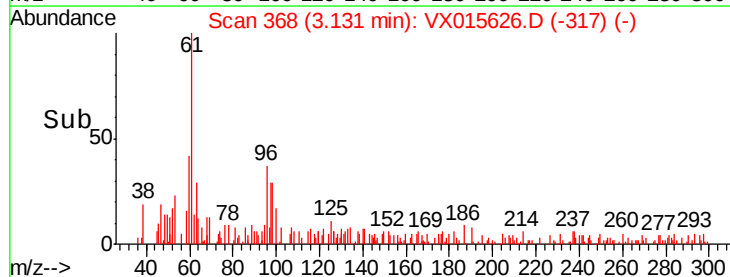
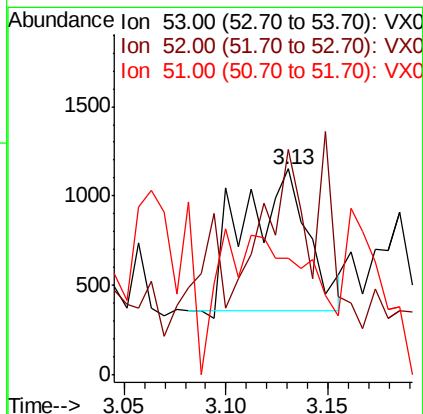
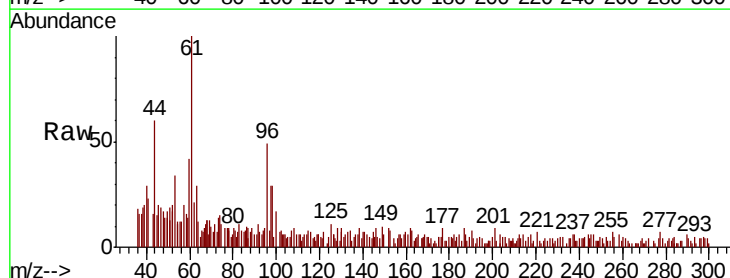
Tgt Ion: 53 Resp: 1710

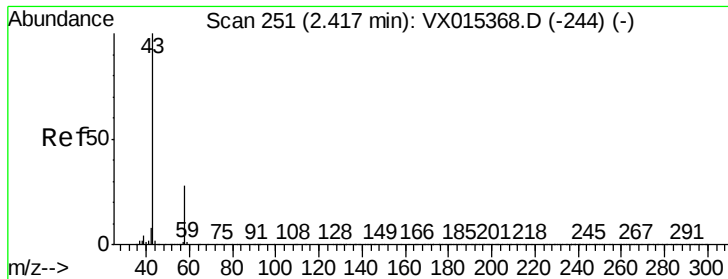
Ion Ratio Lower Upper

53 100

52 50.8 66.8 100.2#

51 0.0 29.5 44.3#

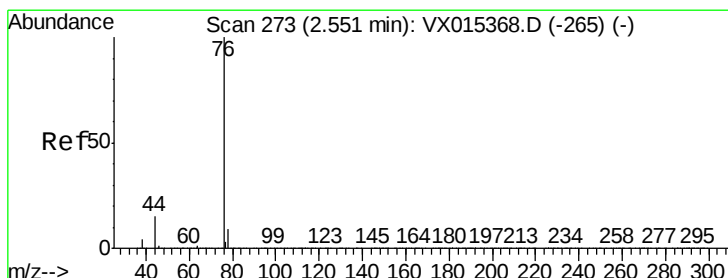
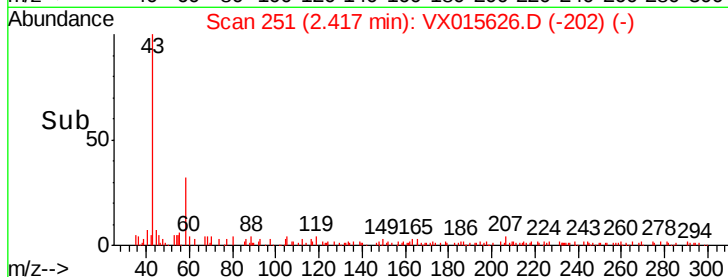
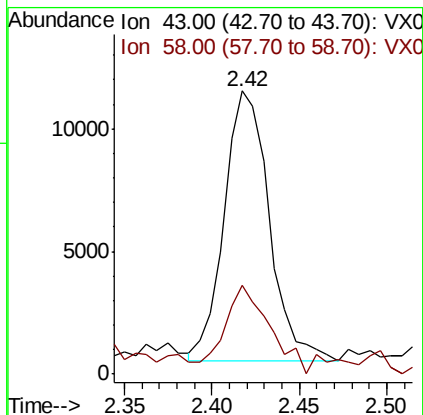
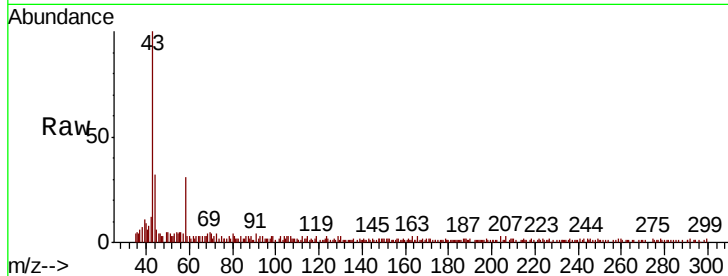




#16
Acetone
Concen: 2.939 ug/l
RT: 2.42 min Scan# 251
Delta R.T. -0.00 min
Lab File: VX015626.D
Acq: 10 Apr 2020 17:04

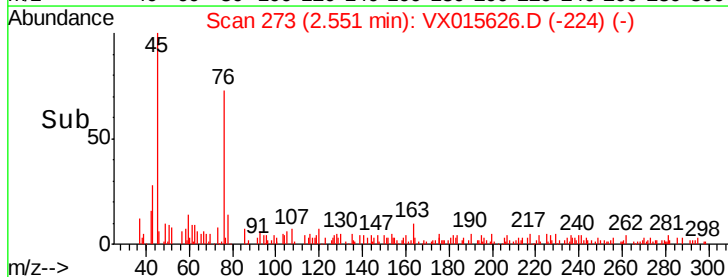
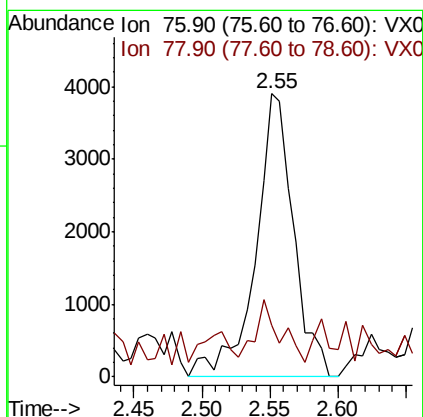
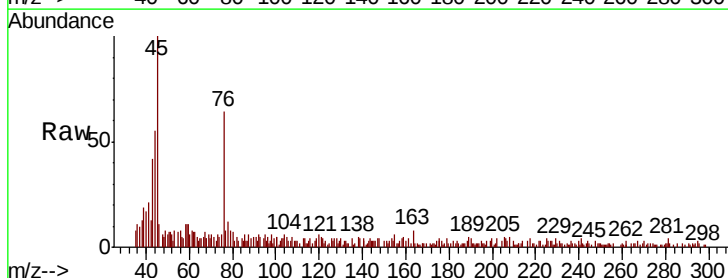
Instrument :
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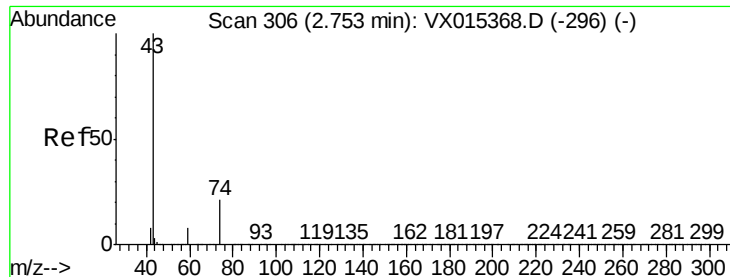
Tot Ion: 43 Resp: 19664
Ion Ratio Lower Upper
43 100
58 28.3 22.1 33.1



#17
Carbon Disulfide
Concen: 0.240 ug/l
RT: 2.55 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX015626.D
Acq: 10 Apr 2020 17:04

Tgt Ion: 76 Resp: 7628
Ion Ratio Lower Upper
76 100
78 12.9 7.1 10.7#

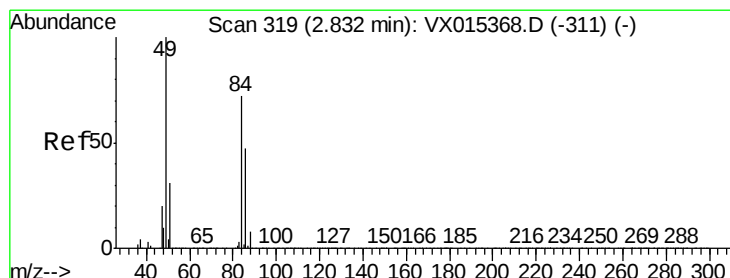
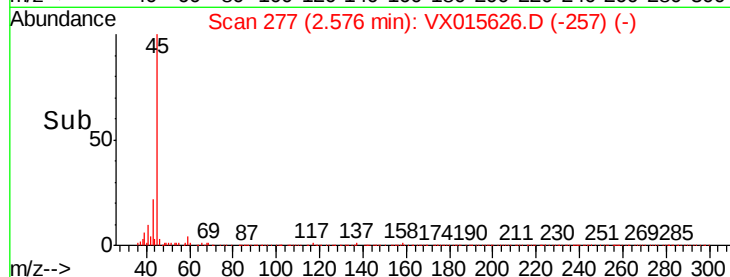
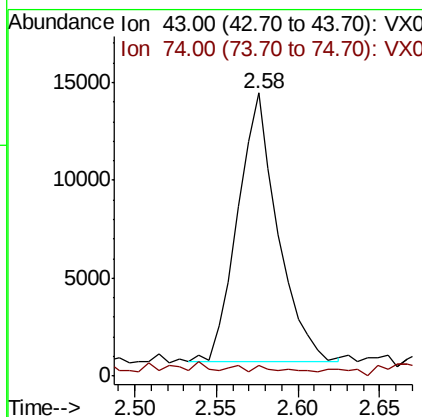
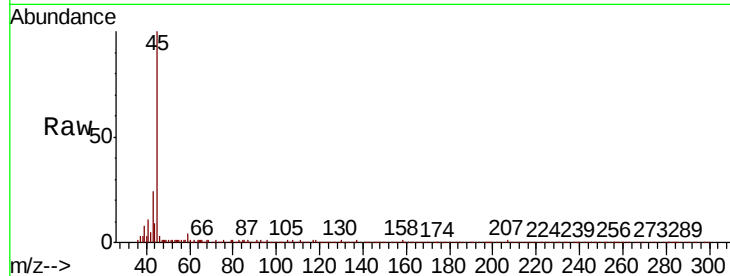




#18
Methyl Acetate
Concen: 1.374 ug/l
RT: 2.58 min Scan# 277
Delta R.T. -0.18 min
Lab File: VX015626.D
Acq: 10 Apr 2020 17:04

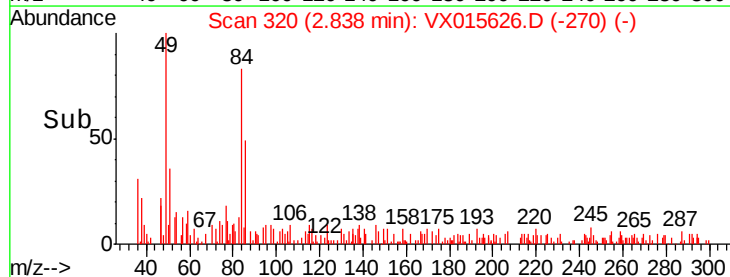
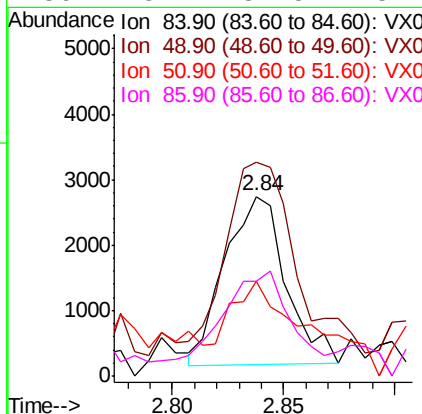
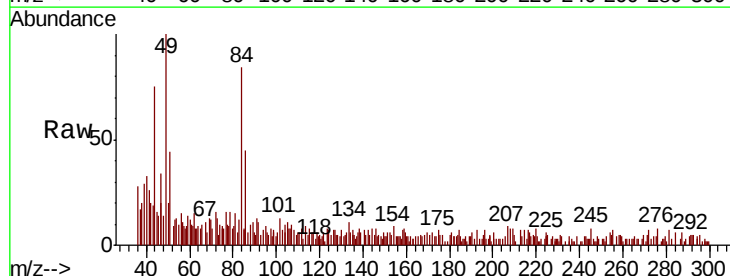
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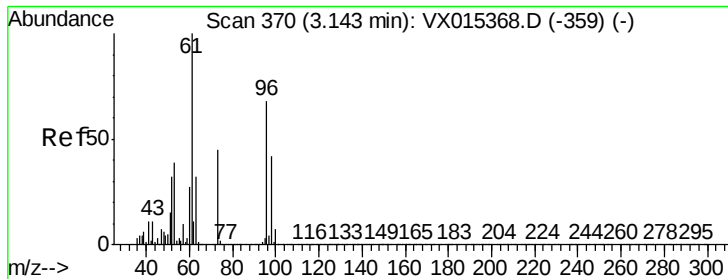
Tot Ion: 43 Resp: 23464
Ion Ratio Lower Upper
43 100
74 0.8 16.5 24.7#



#20
Methylene Chloride
Concen: 0.395 ug/l
RT: 2.84 min Scan# 320
Delta R.T. 0.01 min
Lab File: VX015626.D
Acq: 10 Apr 2020 17:04

Tgt Ion: 84 Resp: 4940
Ion Ratio Lower Upper
84 100
49 106.8 111.3 166.9#
51 32.1 34.0 51.0#
86 45.1 52.5 78.7#





#21

trans-1,2-Dichloroethene

Concen: 0.751 ug/l

RT: 3.15 min Scan# 371

Delta R.T. 0.01 min

Lab File: VX015626.D

Acq: 10 Apr 2020 17:04

Instrument :

MSVOA_X

ClientSampleId :

KY062MW139-200407

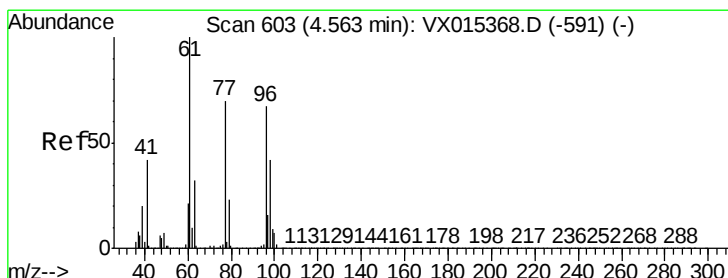
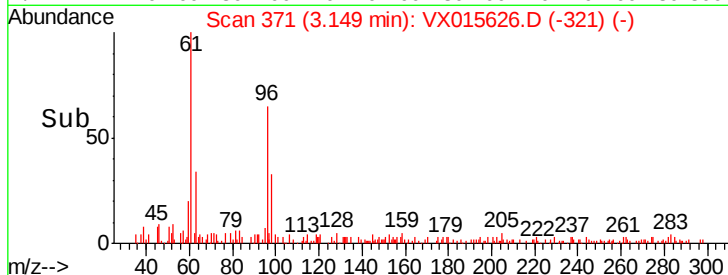
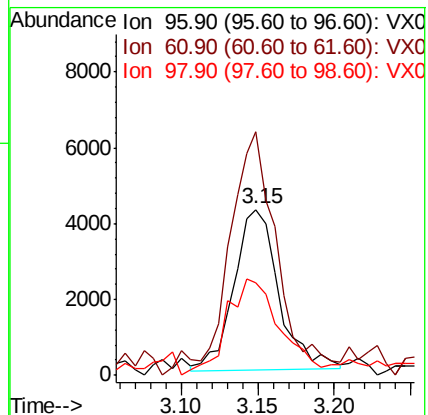
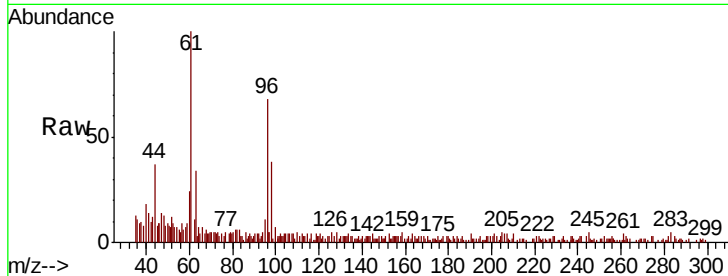
Tot Ion: 96 Resp: 8689

Ion Ratio Lower Upper

96 100

61 147.6 116.9 175.3

98 55.7 48.6 73.0



#27

cis-1,2-Dichloroethene

Concen: 18.263 ug/l

RT: 4.57 min Scan# 604

Delta R.T. 0.01 min

Lab File: VX015626.D

Acq: 10 Apr 2020 17:04

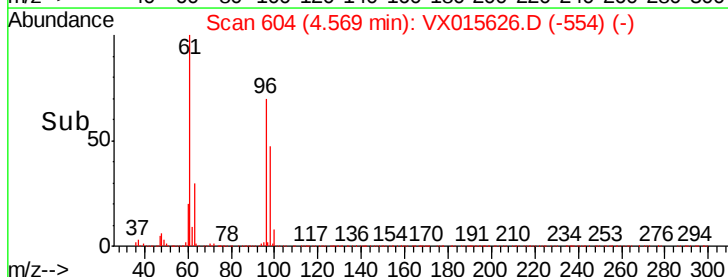
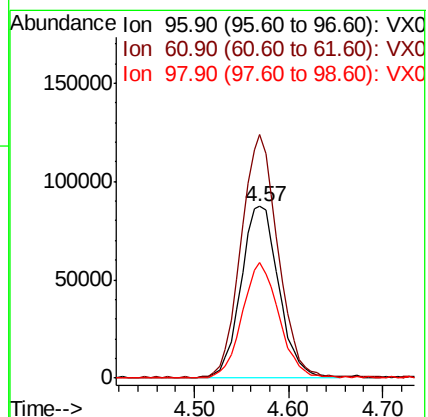
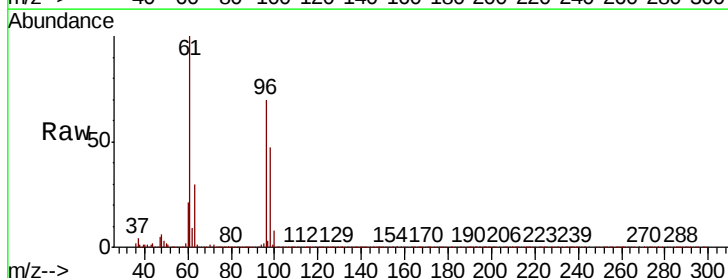
Tgt Ion: 96 Resp: 244454

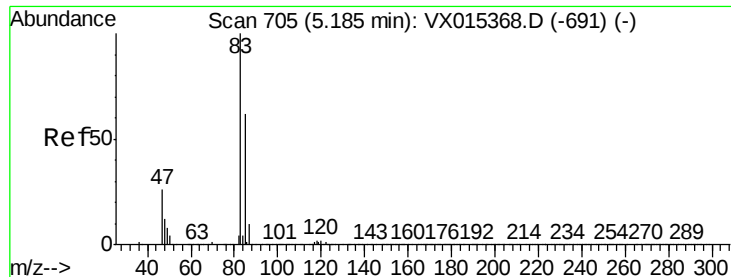
Ion Ratio Lower Upper

96 100

61 137.5 0.0 308.4

98 64.6 0.0 129.2

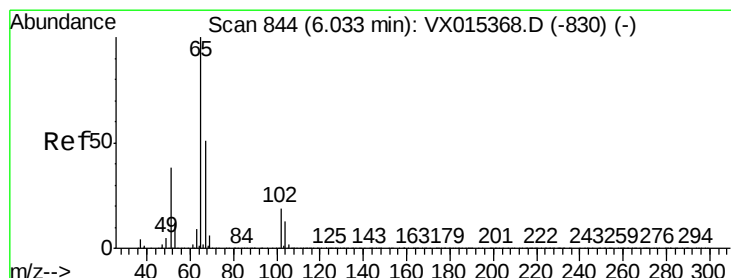
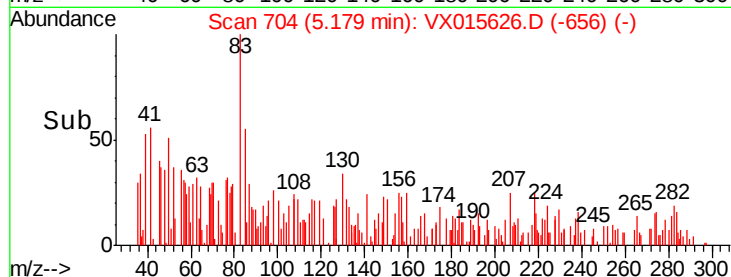
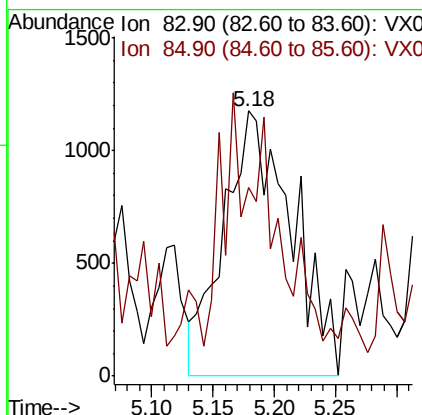
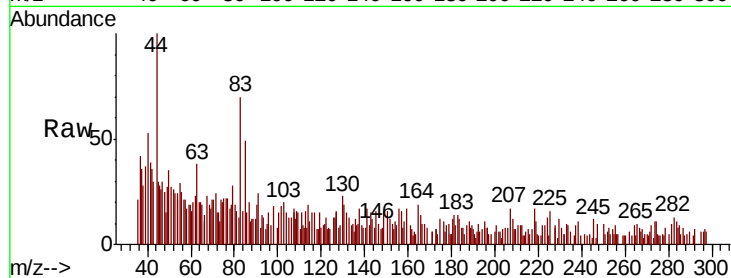




#30
Chloroform
Concen: 0.209 ug/l
RT: 5.18 min Scan# 704
Delta R.T. -0.01 min
Lab File: VX015626.D
Acq: 10 Apr 2020 17:04

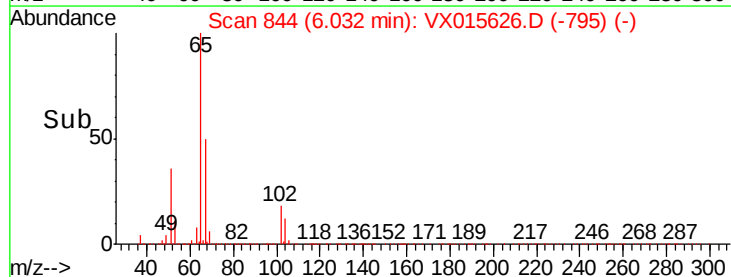
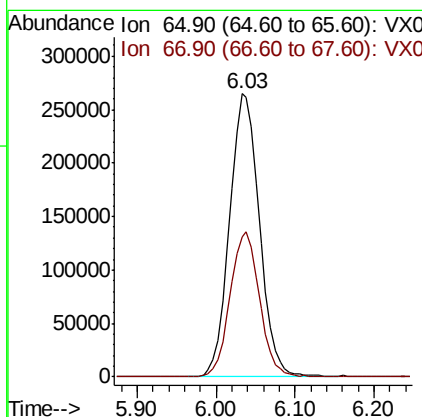
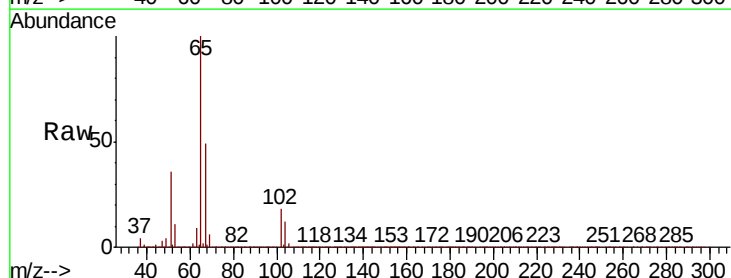
Instrument :
MSVOA_X
ClientSampleId :
KY062MW139-200407

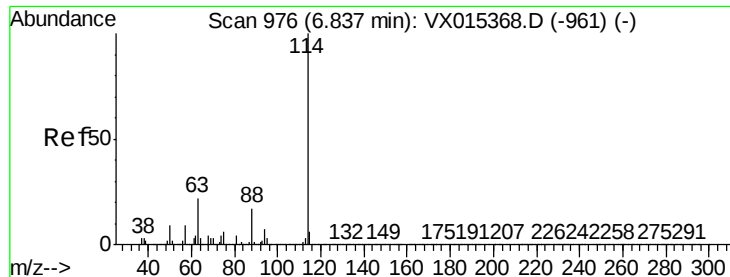
Tot Ion: 83 Resp: 4568
Ion Ratio Lower Upper
83 100
85 57.1 49.5 74.3



#33
1,2-Dichloroethane-d4
Concen: 44.693 ug/l
RT: 6.03 min Scan# 844
Delta R.T. -0.00 min
Lab File: VX015626.D
Acq: 10 Apr 2020 17:04

Tgt Ion: 65 Resp: 696017
Ion Ratio Lower Upper
65 100
67 50.2 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 976

Delta R.T. -0.00 min

Lab File: VX015626.D

Acq: 10 Apr 2020 17:04

Instrument :

MSVOA_X

ClientSampleId :

KY062MW139-200407

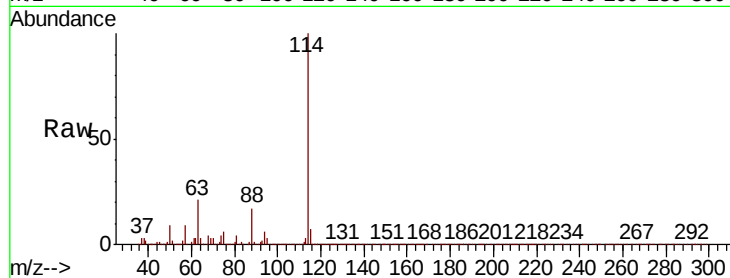
Tot Ion:114 Resp: 1696928

Ion Ratio Lower Upper

114 100

63 21.4 0.0 44.2

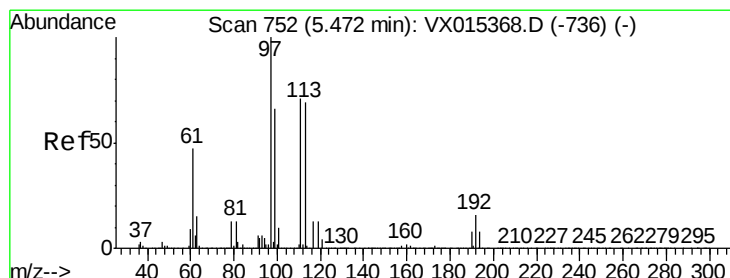
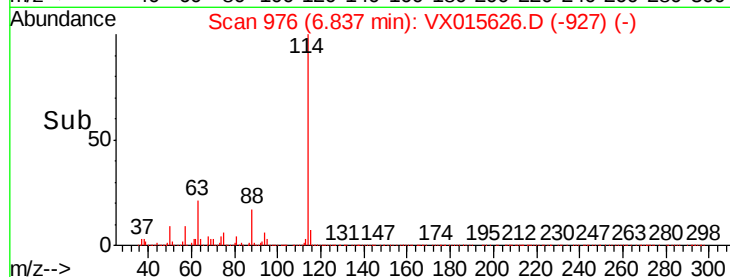
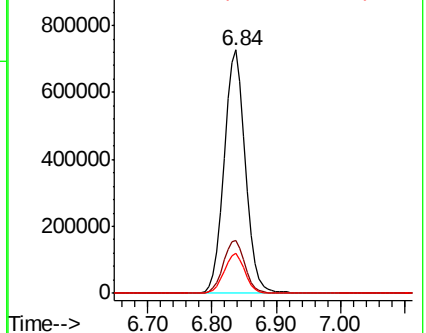
88 16.6 0.0 33.8



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



#35

Dibromofluoromethane

Concen: 47.142 ug/l

RT: 5.47 min Scan# 752

Delta R.T. -0.00 min

Lab File: VX015626.D

Acq: 10 Apr 2020 17:04

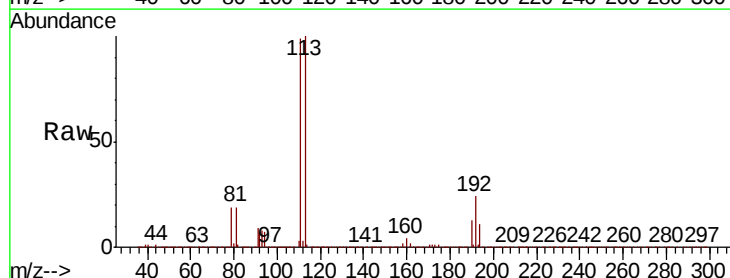
Tgt Ion:113 Resp: 511355

Ion Ratio Lower Upper

113 100

111 102.0 81.5 122.3

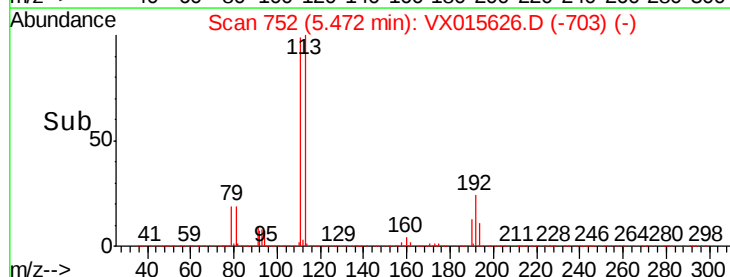
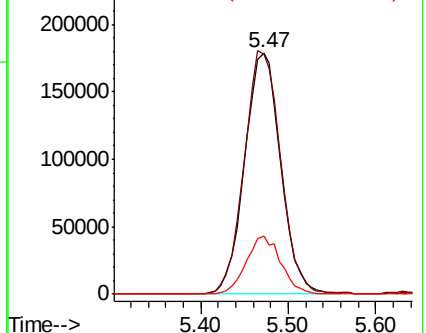
192 23.2 17.8 26.6

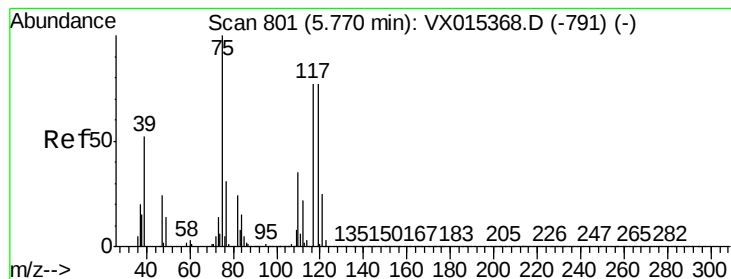


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.097 ug/l

RT: 5.64 min Scan# 779

Delta R.T. -0.13 min

Lab File: VX015626.D

Acq: 10 Apr 2020 17:04

Instrument :

MSVOA_X

ClientSampleId :

KY062MW139-200407

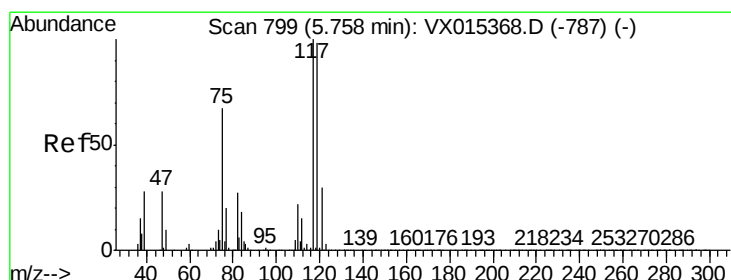
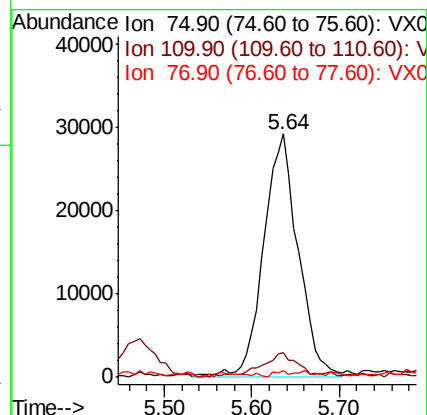
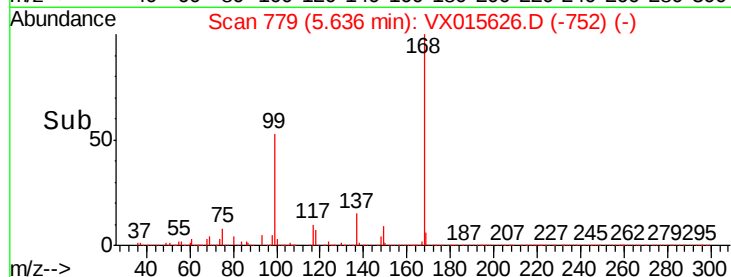
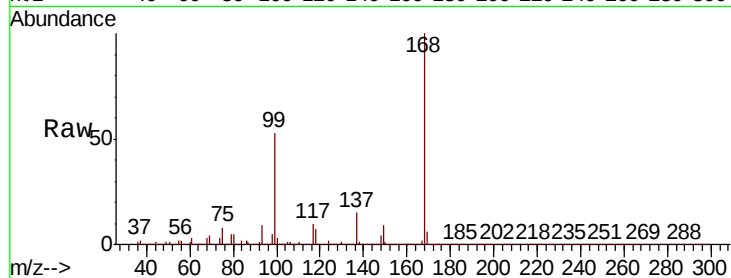
Tot Ion: 75 Resp: 79690

Ion Ratio Lower Upper

75 100

110 10.9 17.1 51.3#

77 1.1 24.6 36.8#



#38

Carbon Tetrachloride

Concen: 6.086 ug/l

RT: 5.64 min Scan# 779

Delta R.T. -0.12 min

Lab File: VX015626.D

Acq: 10 Apr 2020 17:04

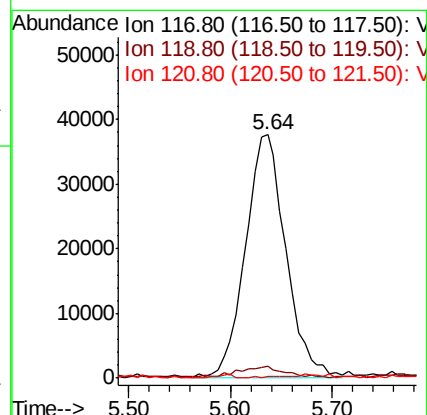
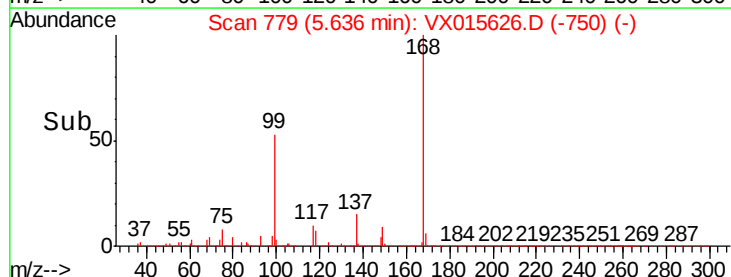
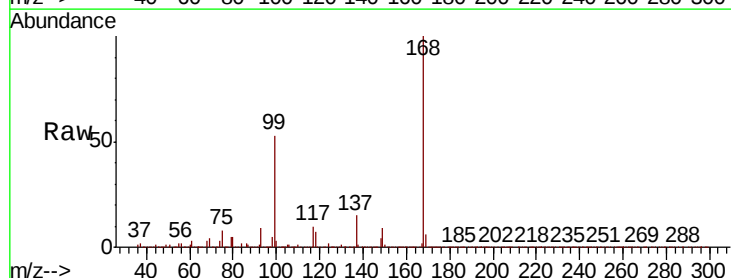
Tgt Ion: 117 Resp: 103057

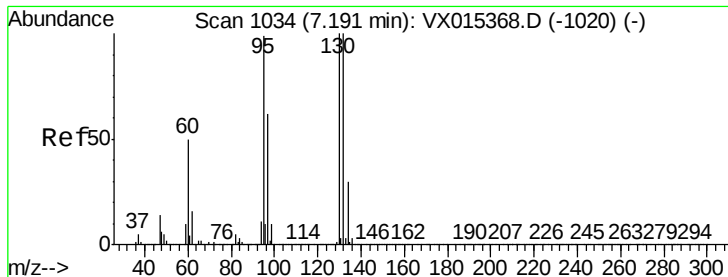
Ion Ratio Lower Upper

117 100

119 4.0 78.0 117.0#

121 0.7 23.8 35.8#





#44

Trichloroethene

Concen: 10.291 ug/l

RT: 7.20 min Scan# 1035

Delta R.T. 0.01 min

Lab File: VX015626.D

Acq: 10 Apr 2020 17:04

Instrument :

MSVOA_X

ClientSampleId :

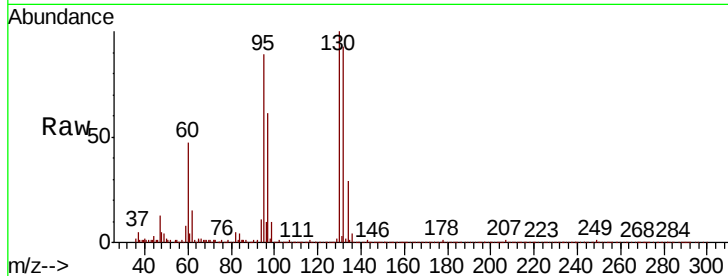
KY062MW139-200407

Tot Ion:130 Resp: 128543

Ion Ratio Lower Upper

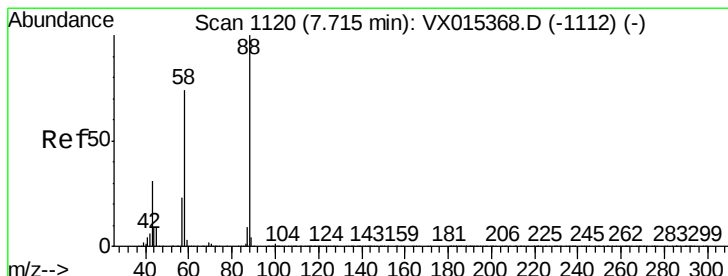
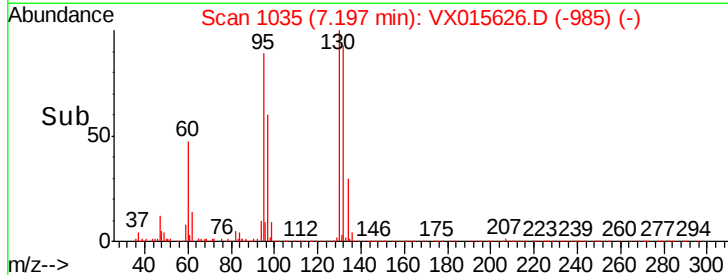
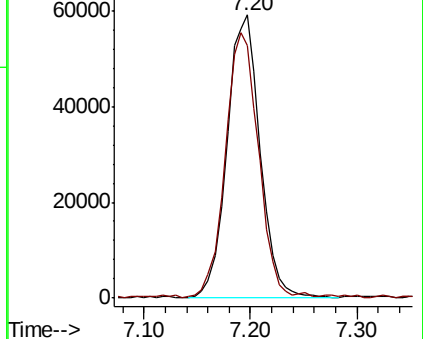
130 100

95 88.8 0.0 199.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 3.004 ug/l

RT: 7.72 min Scan# 1121

Delta R.T. 0.01 min

Lab File: VX015626.D

Acq: 10 Apr 2020 17:04

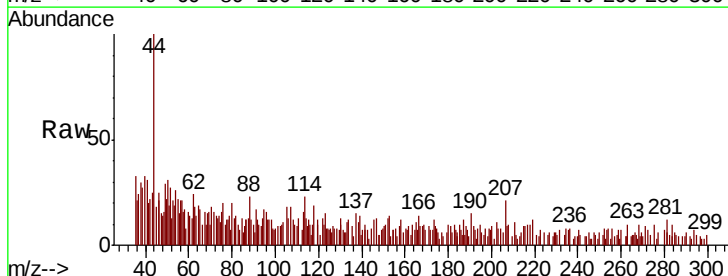
Tgt Ion: 88 Resp: 962

Ion Ratio Lower Upper

88 100

43 0.0 30.1 45.1#

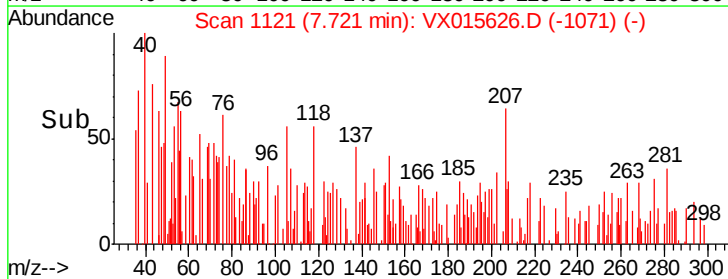
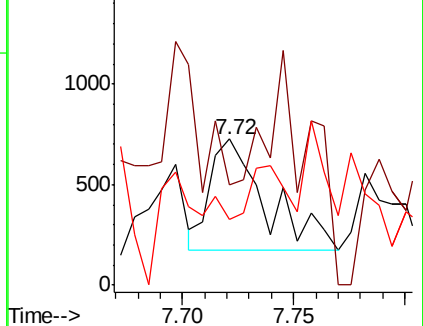
58 0.0 60.6 90.8#

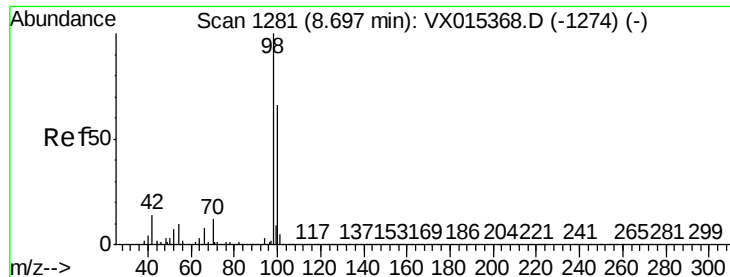


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.754 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VX015626.D

Acq: 10 Apr 2020 17:04

Instrument :

MSVOA_X

ClientSampleId :

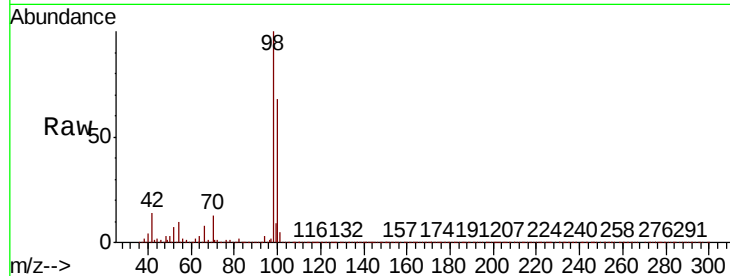
KY062MW139-200407

Tot Ion: 98 Resp: 2026925

Ion Ratio Lower Upper

98 100

100 66.6 53.5 80.3



Abundance Ion 98.00 (97.70 to 98.70): VX015368.D (-1274) (-)

Ion 100.00 (99.70 to 100.70): VX015368.D (-1274) (-)

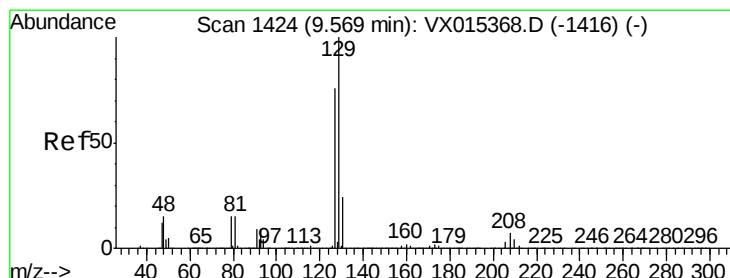
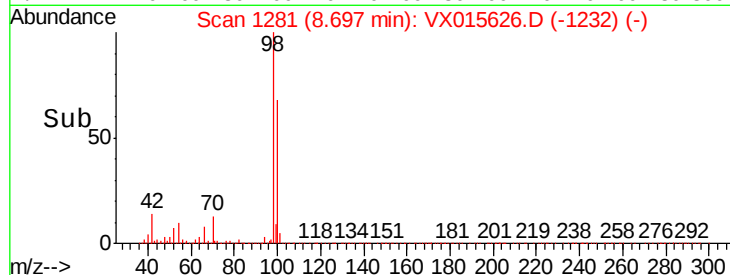
8.70

1000000

500000

0

Time-->



#60

Dibromochloromethane

Concen: 74.903 ug/l

RT: 9.32 min Scan# 1383

Delta R.T. -0.25 min

Lab File: VX015626.D

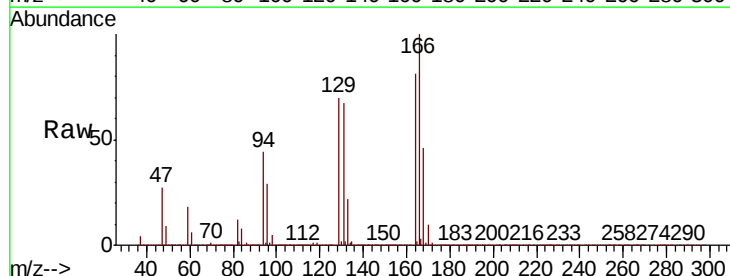
Acq: 10 Apr 2020 17:04

Tgt Ion: 129 Resp: 1041254

Ion Ratio Lower Upper

129 100

127 0.1 38.2 114.6#



Abundance Ion 128.80 (128.50 to 129.50): VX015368.D (-1416) (-)

Ion 126.80 (126.50 to 127.50): VX015368.D (-1416) (-)

800000

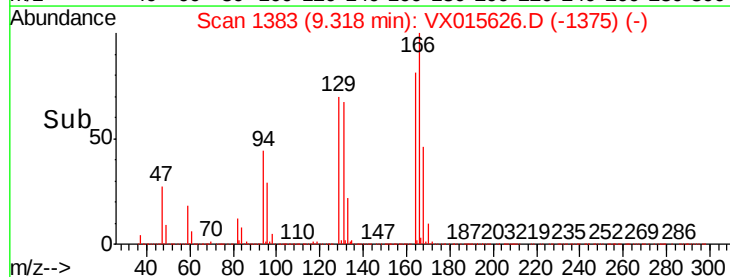
600000

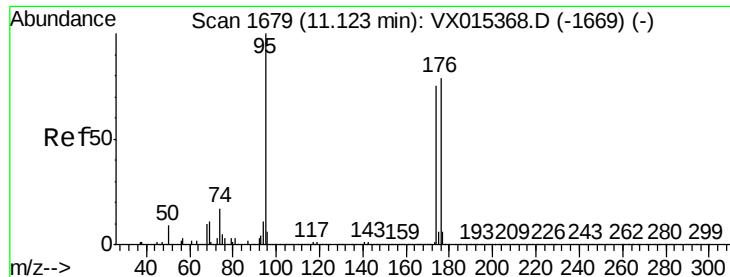
400000

200000

0

Time-->

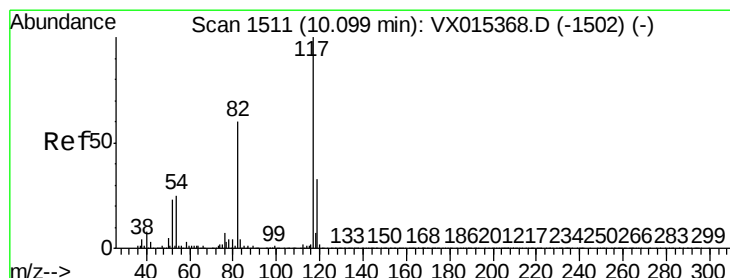
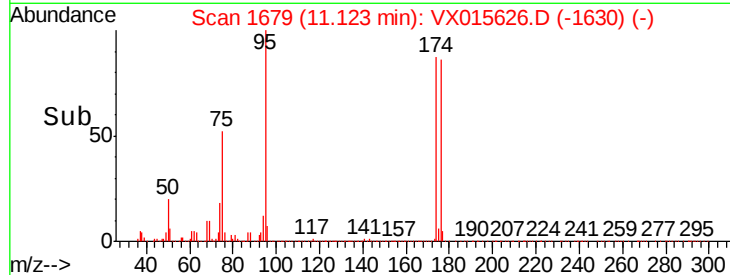
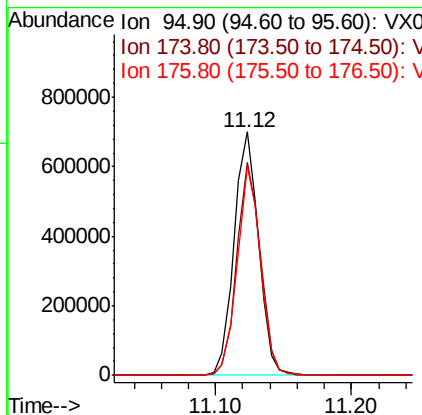
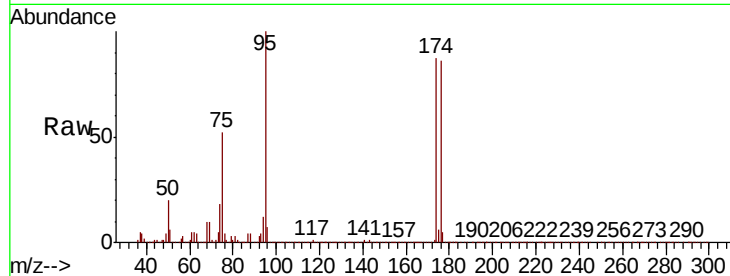




#62
4-Bromofluorobenzene
Concen: 54.022 ug/l
RT: 11.12 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VX015626.D
Acq: 10 Apr 2020 17:04

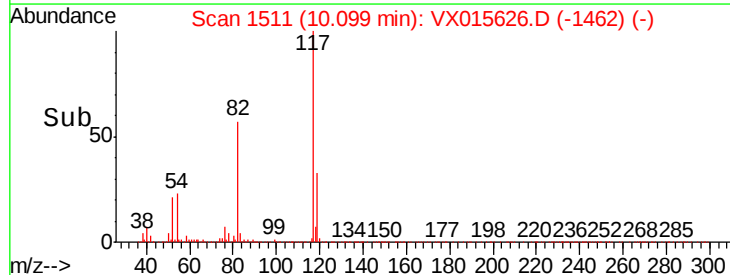
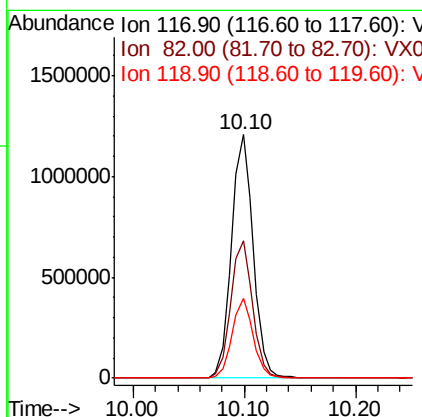
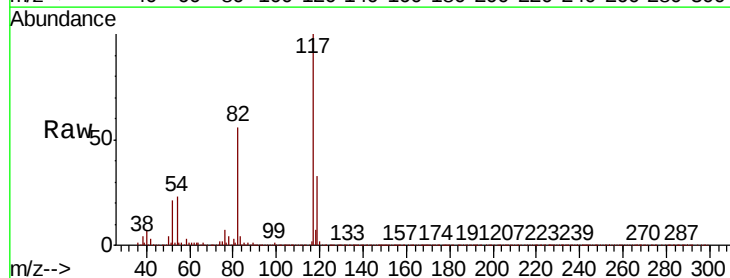
Instrument :
MSVOA_X
ClientSampleId :
KY062MW139-200407

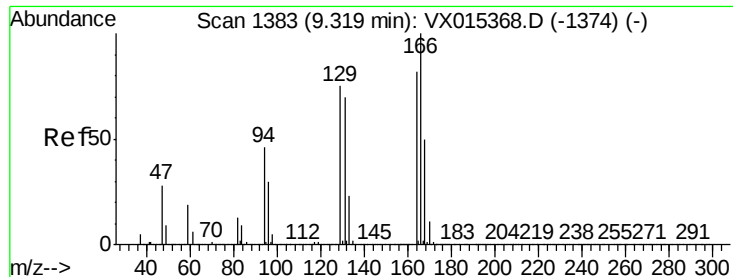
Tot Ion:	95	Resp:	876802
Ion	Ratio	Lower	Upper
95	100		
174	85.1	0.0	158.6
176	81.6	0.0	159.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1511
Delta R.T. -0.00 min
Lab File: VX015626.D
Acq: 10 Apr 2020 17:04

Tgt Ion:	117	Resp:	1623180
Ion	Ratio	Lower	Upper
117	100		
82	56.5	47.8	71.8
119	32.7	26.8	40.2





#64

Tetrachloroethene

Concen: 95.669 ug/l

RT: 9.32 min Scan# 1383

Delta R.T. -0.00 min

Lab File: VX015626.D

Acq: 10 Apr 2020 17:04

Instrument :

MSVOA_X

ClientSampleId :

KY062MW139-200407

Tot Ion:164 Resp: 1171922

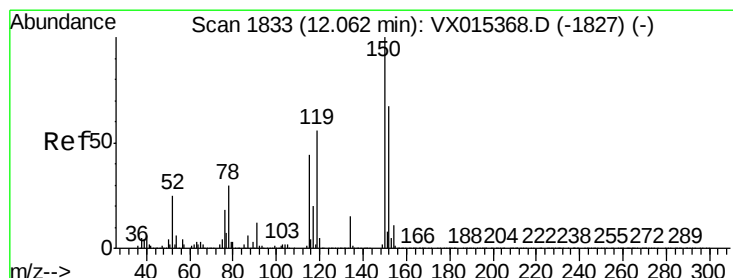
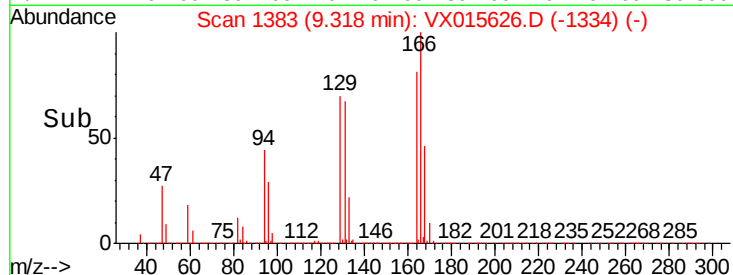
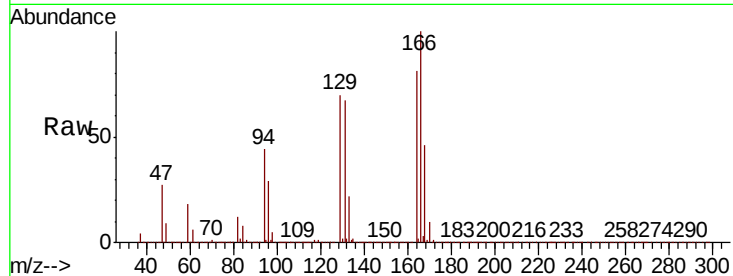
Ion Ratio Lower Upper

164 100

166 123.5 97.8 146.6

129 85.8 73.0 109.4

131 82.5 68.6 103.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VX015626.D

Acq: 10 Apr 2020 17:04

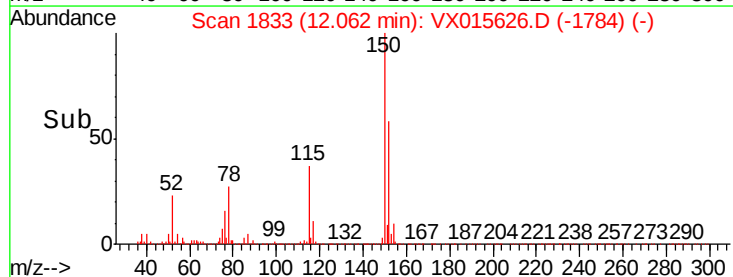
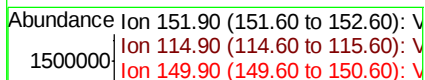
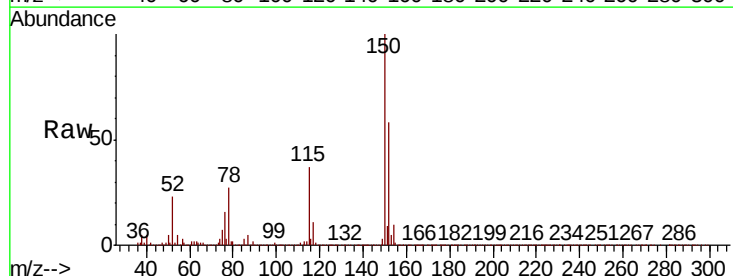
Tgt Ion:152 Resp: 888389

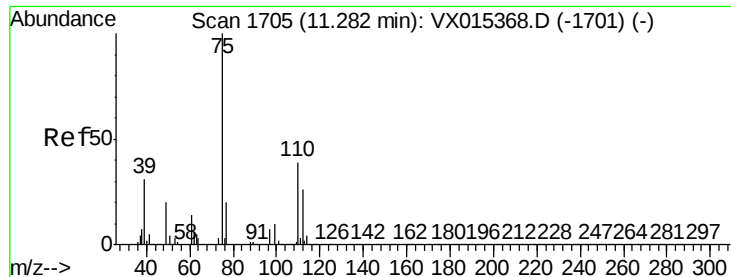
Ion Ratio Lower Upper

152 100

115 59.0 39.0 116.9

150 160.8 0.0 340.8





#76

1,2,3-Trichloropropane

Concen: 24.616 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015626.D

Acq: 10 Apr 2020 17:04

Instrument :

MSVOA_X

ClientSampleId :

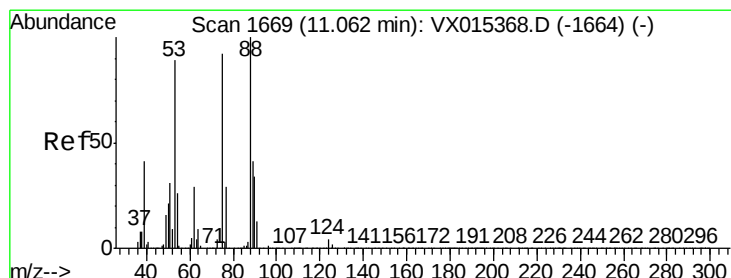
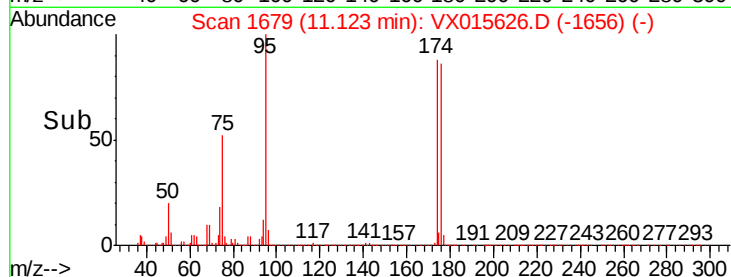
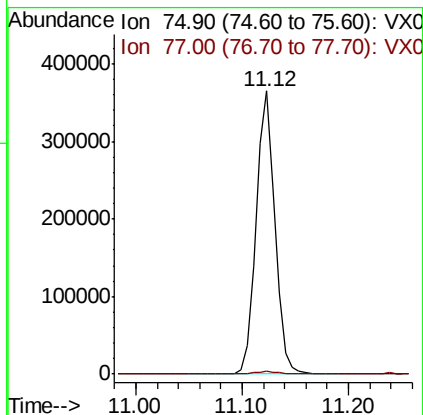
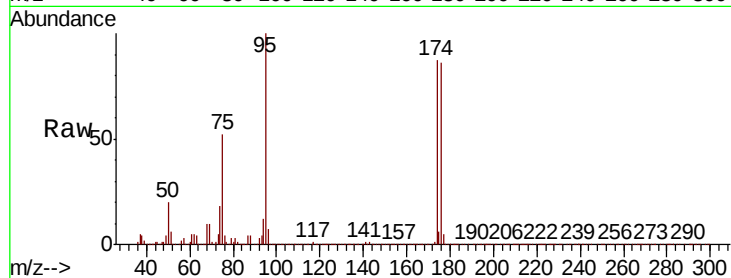
KY062MW139-200407

Tot Ion: 75 Resp: 449702

Ion Ratio Lower Upper

75 100

77 1.1 21.2 63.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 59.064 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015626.D

Acq: 10 Apr 2020 17:04

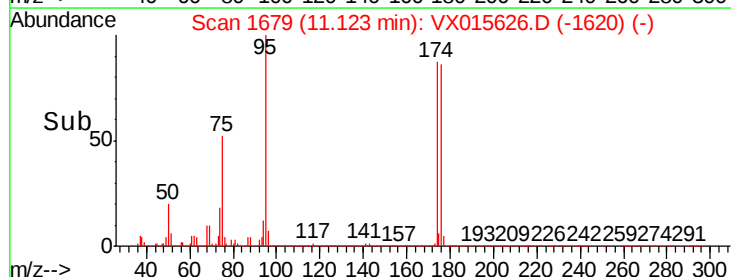
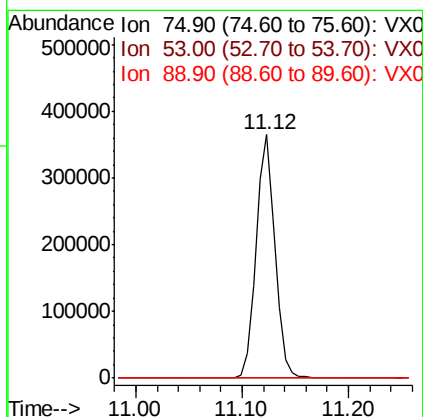
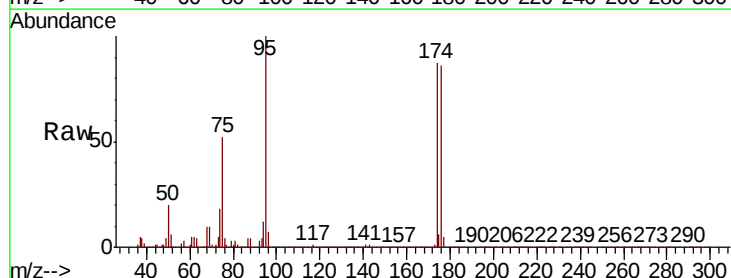
Tgt Ion: 75 Resp: 449702

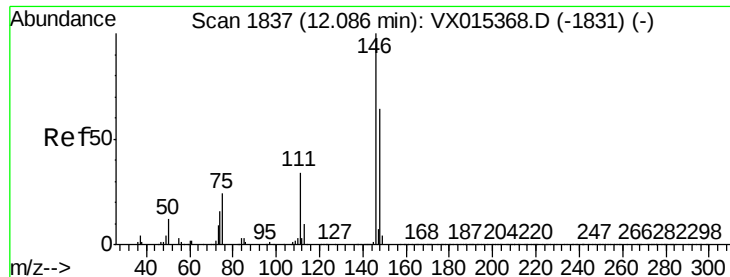
Ion Ratio Lower Upper

75 100

53 0.1 80.1 120.1#

89 0.1 36.1 54.1#

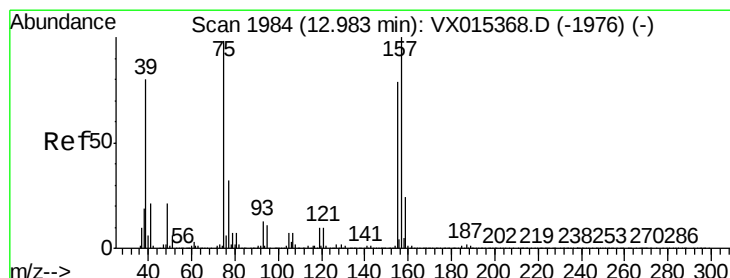
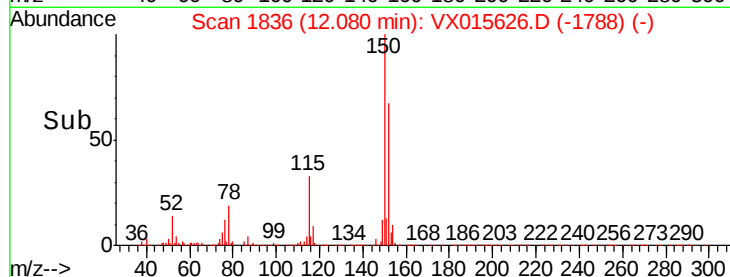
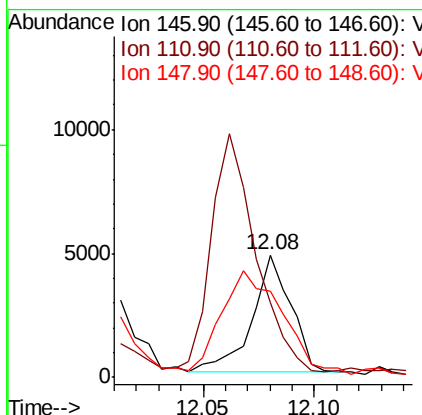
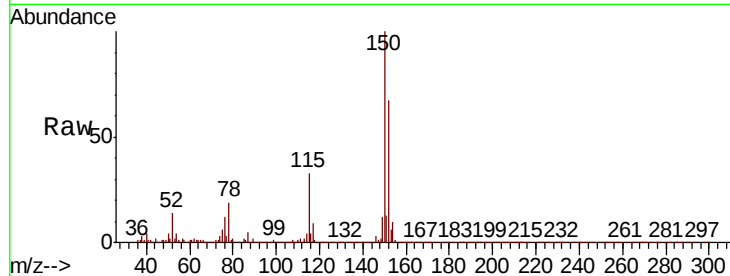




#88
 1,4-Dichlorobenzene
 Concen: 0.206 ug/l
 RT: 12.08 min Scan# 1836
 Delta R.T. -0.01 min
 Lab File: VX015626.D
 Acq: 10 Apr 2020 17:04

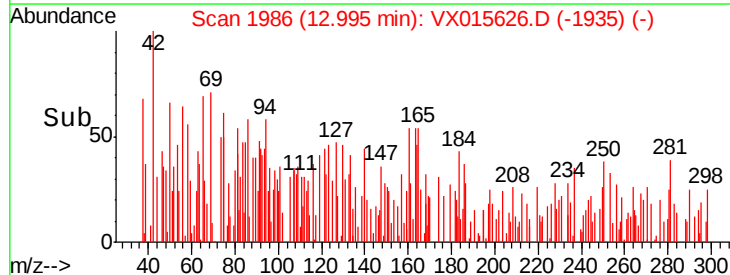
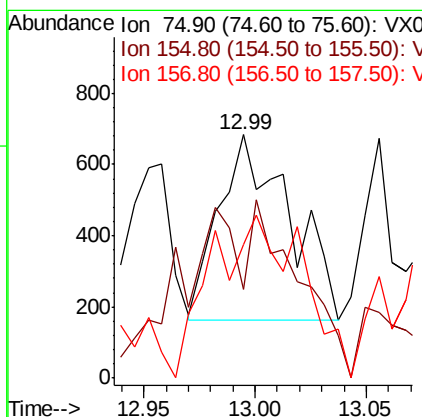
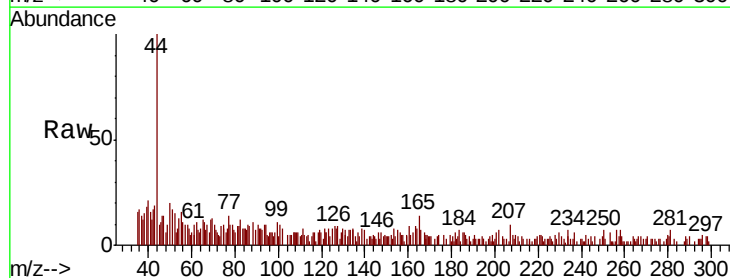
Instrument :
 MSVOA_X
 ClientSampleId :
 KY062MW139-200407

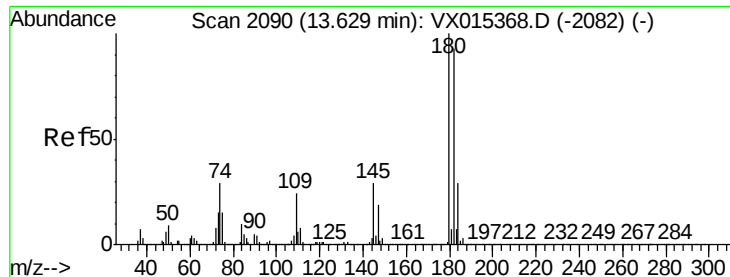
Tot Ion	Ratio	Lower	Upper
146	100		
111	228.5	19.1	57.5#
148	145.4	32.4	97.2#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.205 ug/l
 RT: 12.99 min Scan# 1986
 Delta R.T. 0.01 min
 Lab File: VX015626.D
 Acq: 10 Apr 2020 17:04

Tgt Ion	Ratio	Lower	Upper
75	100		
155	65.5	42.8	128.4
157	112.9	53.4	160.3

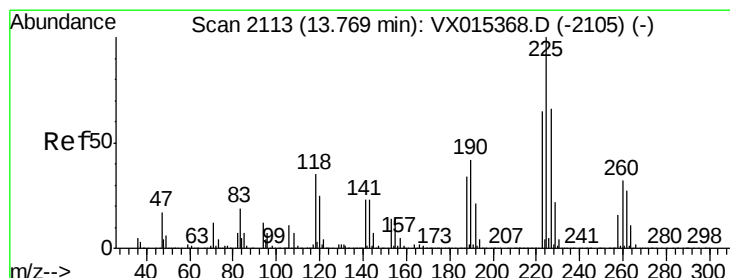
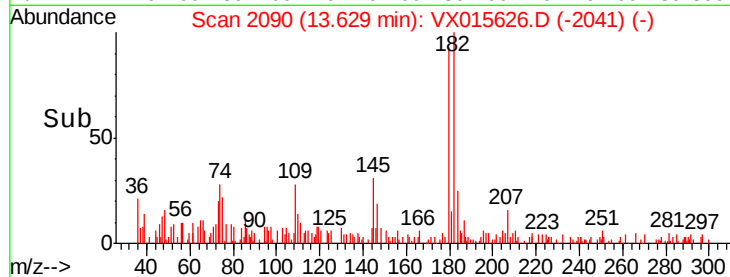
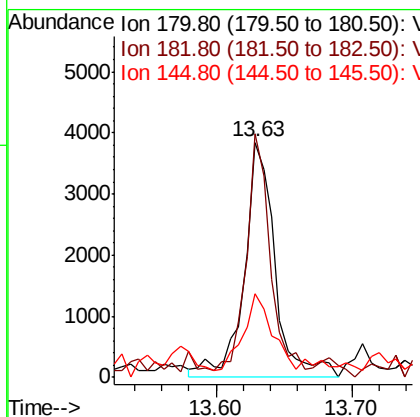
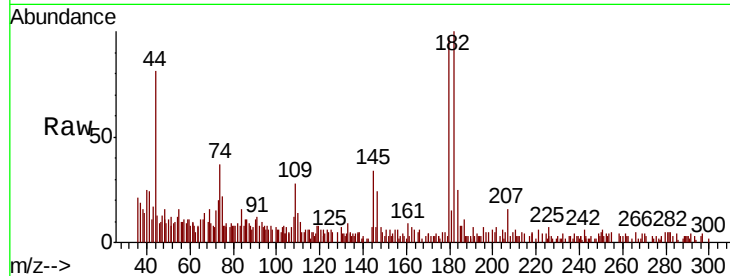




#93
 1,2,4-Trichlorobenzene
 Concen: 0.284 ug/l
 RT: 13.63 min Scan# 2090
 Delta R.T. -0.00 min
 Lab File: VX015626.D
 Acq: 10 Apr 2020 17:04

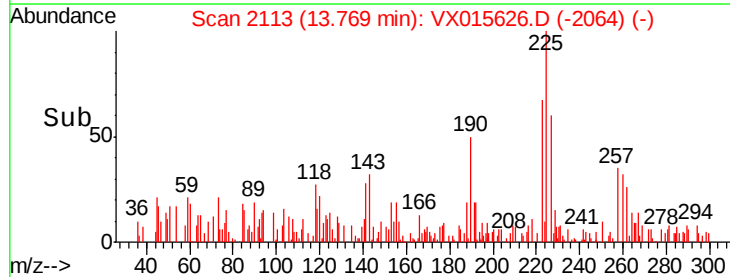
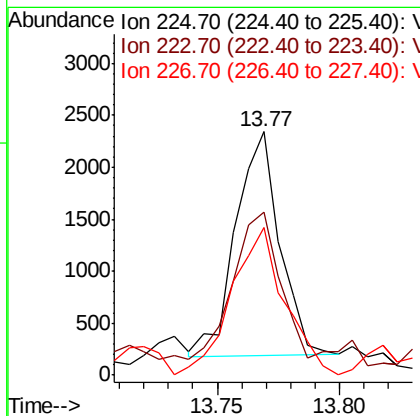
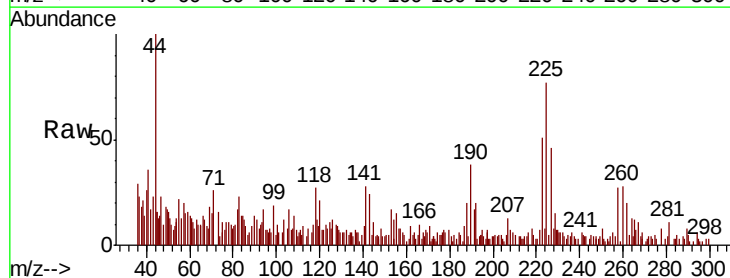
Instrument :
 MSVOA_X
 ClientSampleId :
 KY062MW139-200407

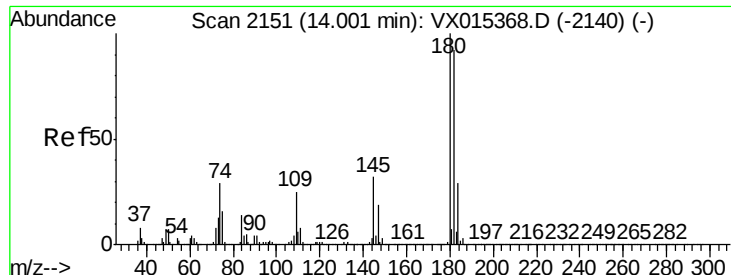
Tot Ion	Ratio	Lower	Upper
180	100		
182	75.4	46.9	140.7
145	30.2	14.9	44.5



#94
 Hexachlorobutadiene
 Concen: 0.263 ug/l
 RT: 13.77 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VX015626.D
 Acq: 10 Apr 2020 17:04

Tgt Ion	Ratio	Lower	Upper
225	100		
223	70.5	31.9	95.7
227	80.3	30.4	91.3

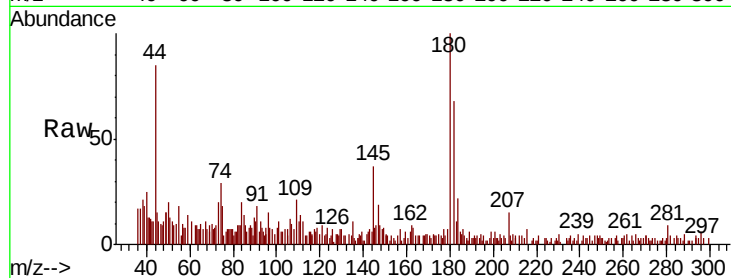




#96
 1,2,3-Trichlorobenzene
 Concen: 0.267 ug/l
 RT: 14.00 min Scan# 2151
 Delta R.T. -0.00 min
 Lab File: VX015626.D
 Acq: 10 Apr 2020 17:04

Instrument :
 MSVOA_X
 ClientSampleId :
 KY062MW139-200407

Tot Ion	Ratio	Lower	Upper
180	100		
182	90.6	46.7	140.0
145	38.5	15.8	47.3



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

