

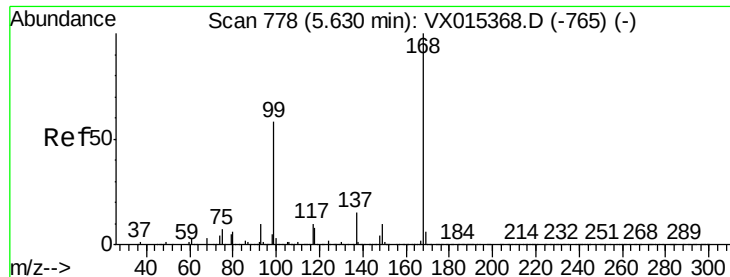
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX041020\
 Data File : VX015626.D
 Acq On : 10 Apr 2020 17:04
 Operator : JC/SP
 Sample : L2190-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

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						
33) 1,2-Dichloroethane-d4	6.03	65	696017	44.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.38%	
35) Dibromofluoromethane	5.47	113	511355	47.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.28%	
50) Toluene-d8	8.70	98	2026925	50.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.50%	
62) 4-Bromofluorobenzene	11.12	95	876802	54.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.04%	
Target Compounds						
					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

Lab File: VX015626.D

Acq: 10 Apr 2020 17:04

Instrument :

MSVOA_X

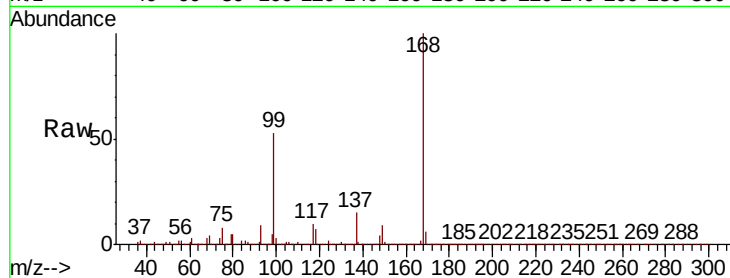
ClientSampleId :

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

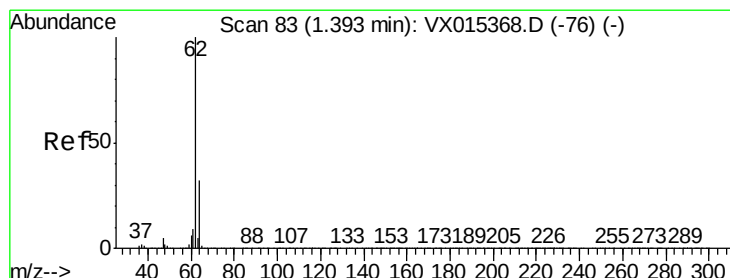
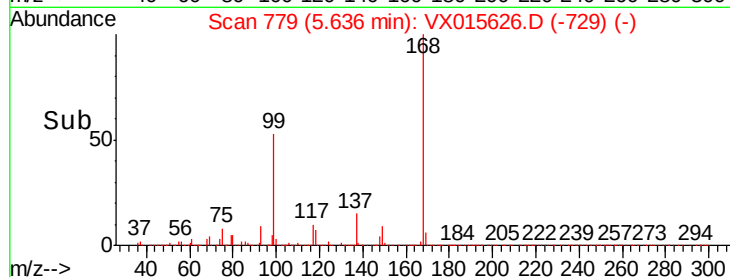
200000

100000

0

5.50 5.60 5.70 5.80

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

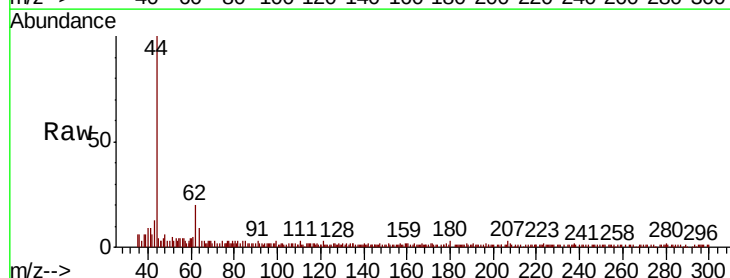
Acq: 10 Apr 2020 17:04

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

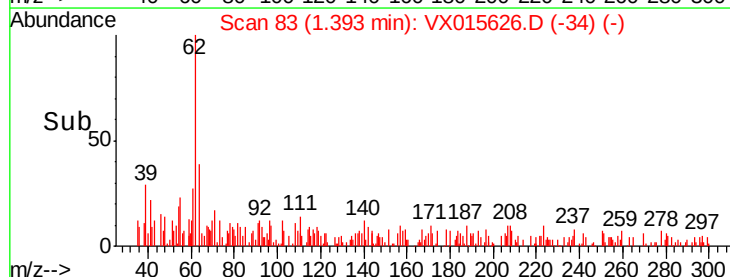
2000

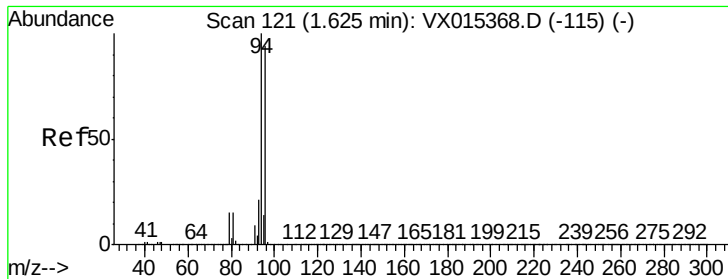
1000

0

1.35 1.40 1.45

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

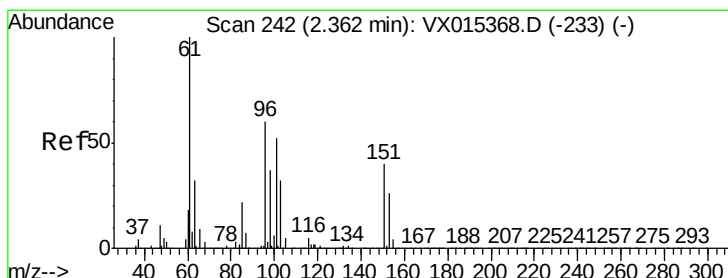
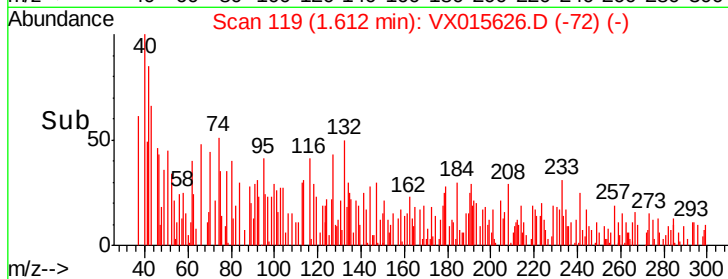
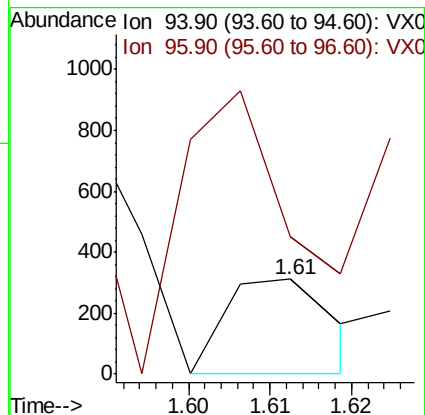
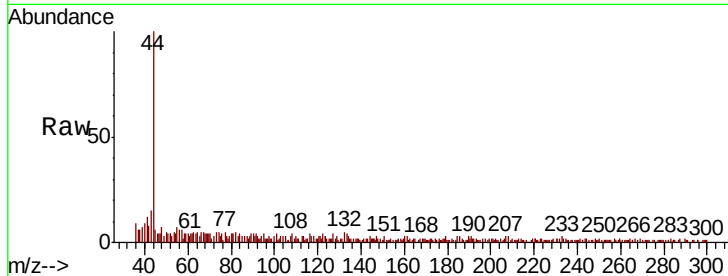
ClientSampled :

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

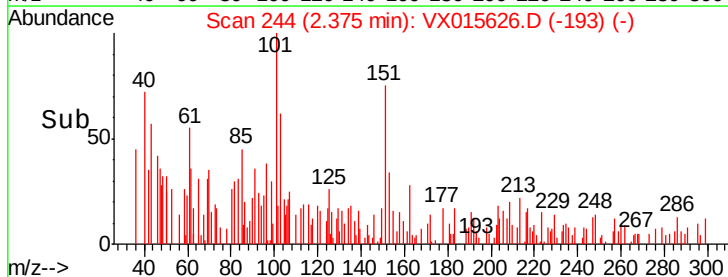
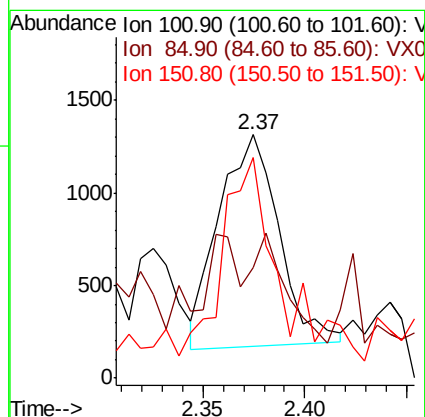
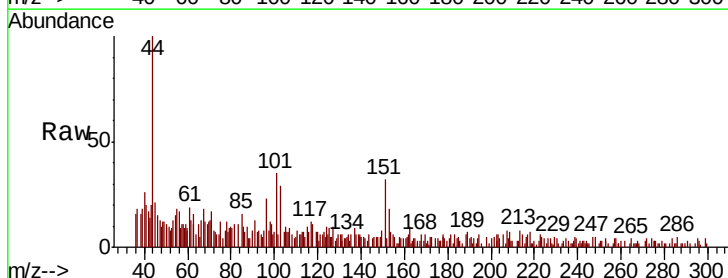
Tgt Ion:101 Resp: 2351

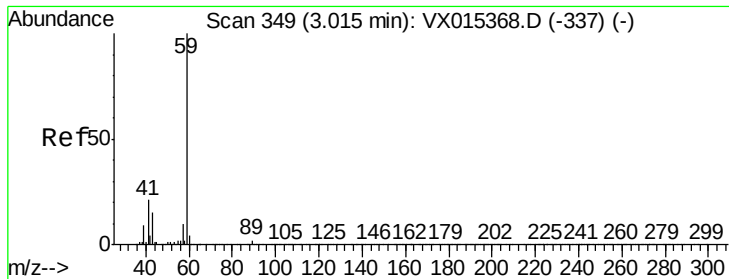
Ion Ratio Lower Upper

101 100

85 26.3 35.0 52.4#

151 90.6 64.1 96.1



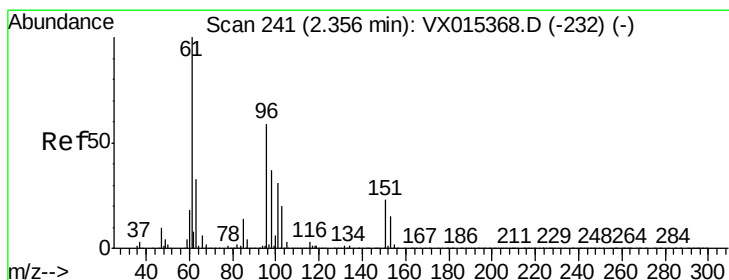
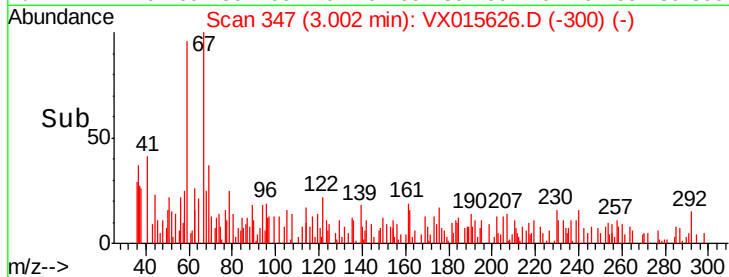
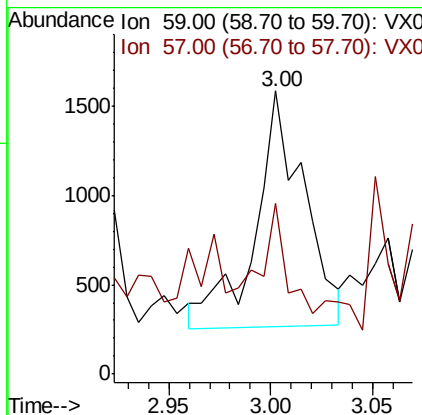
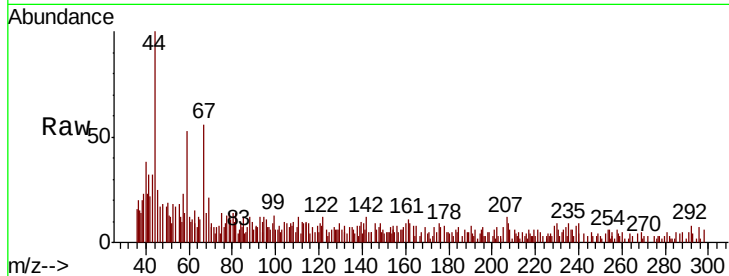


#11

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 :

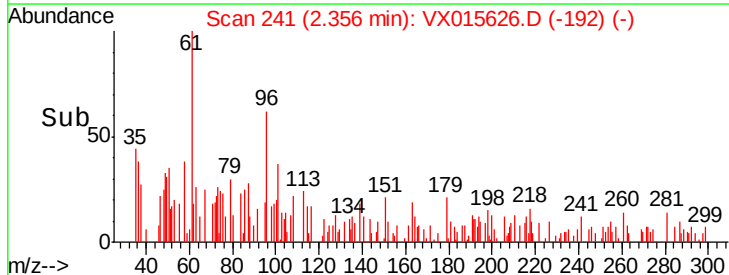
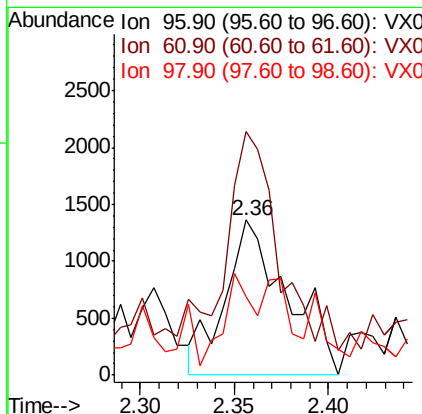
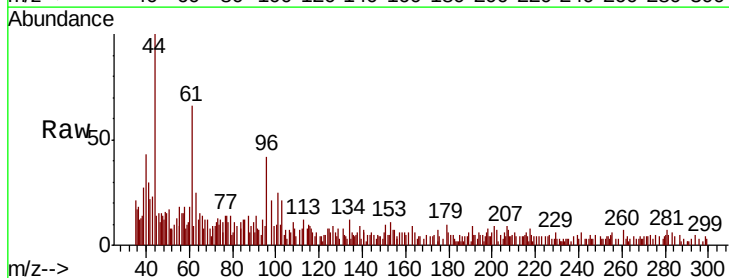
Tot Ion: 59 Resp: 2212
Ion Ratio Lower Upper
59 100
57 22.0 8.1 12.1#

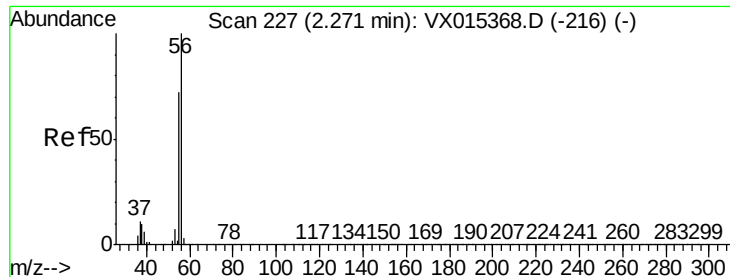


#12

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

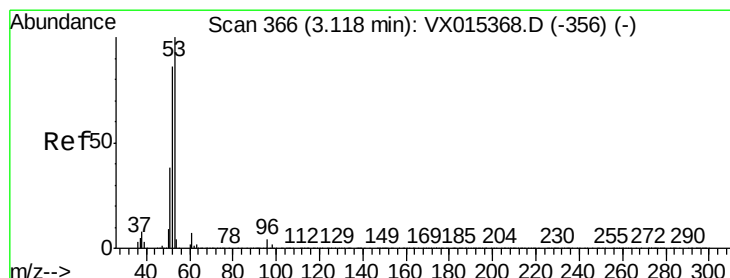
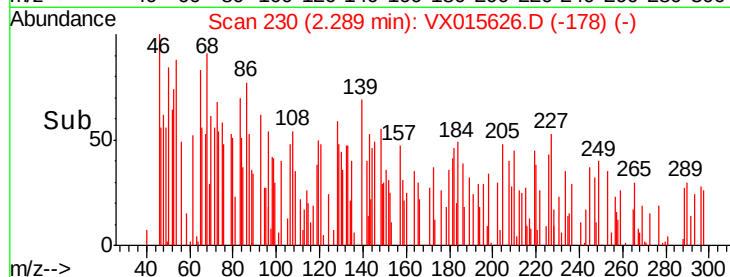
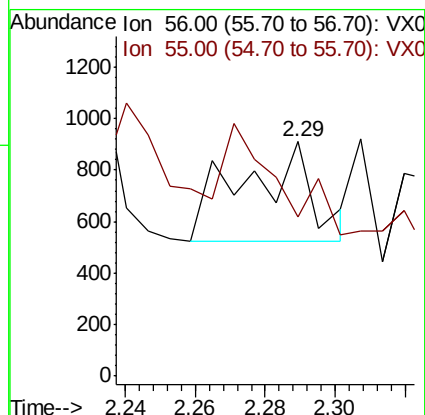
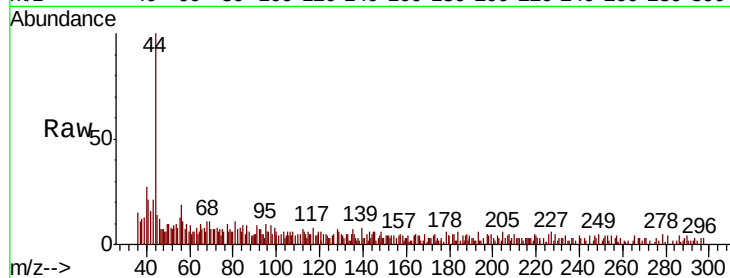
Instrument :
MSVOA_X
ClientSampled :

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

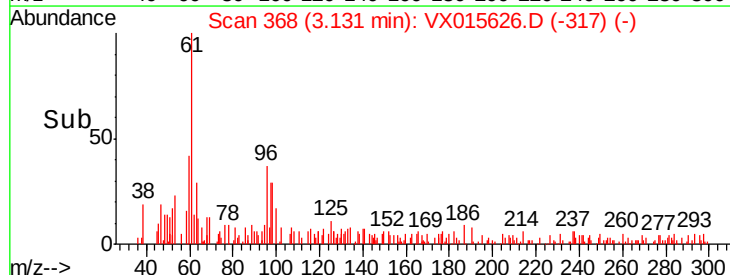
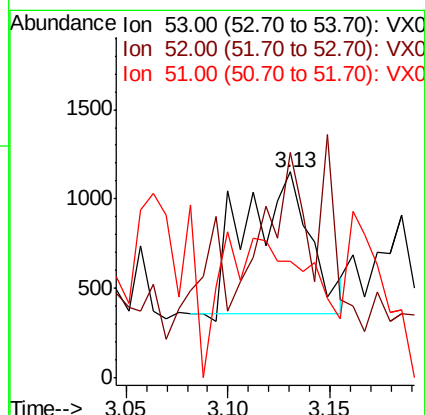
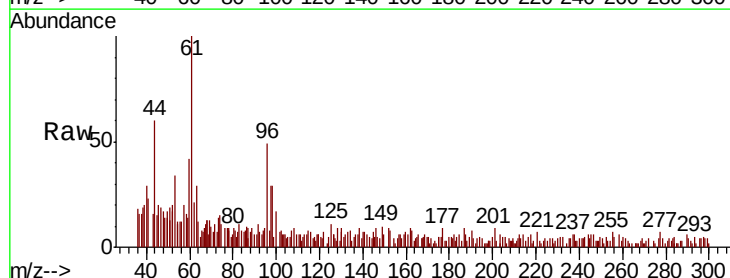
Tgt Ion: 53 Resp: 1710

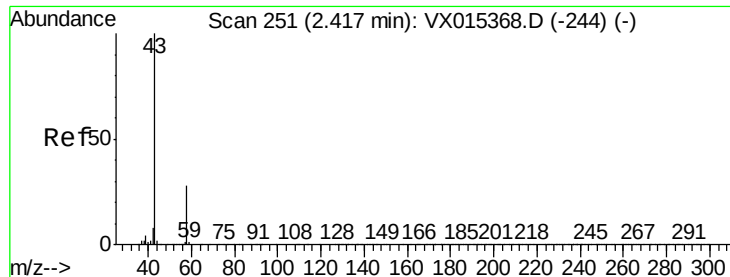
Ion Ratio Lower Upper

53 100

52 50.8 66.8 100.2#

51 0.0 29.5 44.3#

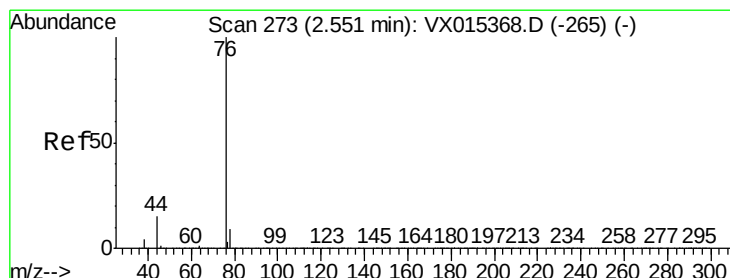
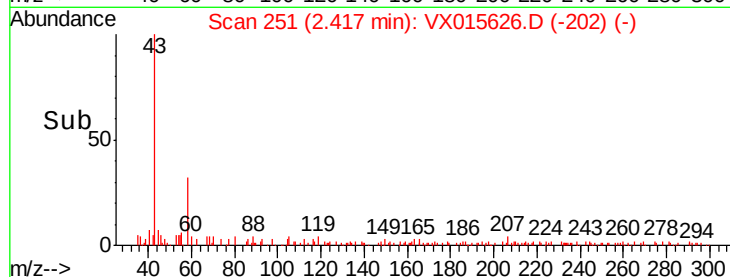
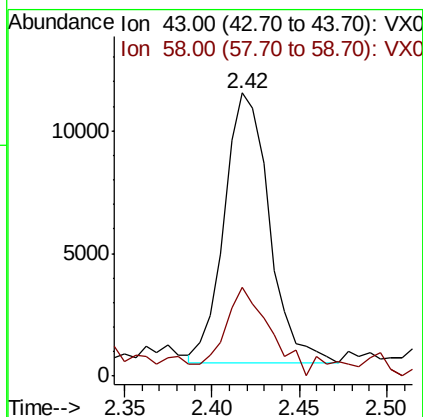
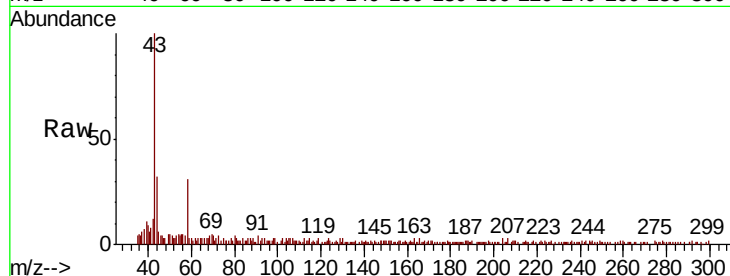




#16
Acetone
Concen: 2.939 ug/l
RT: 2.42 min Scan# 251
Delta R.T. -0.00 min
Lab File: VX015626.D
Acq: 10 Apr 2020 17:04

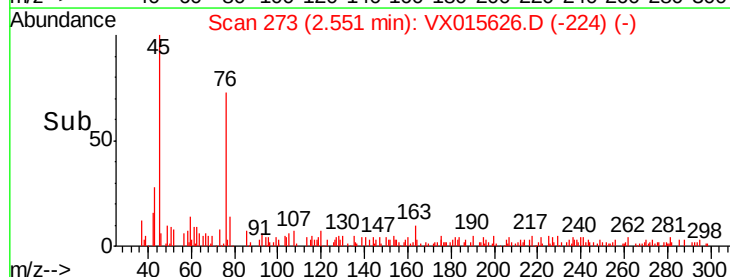
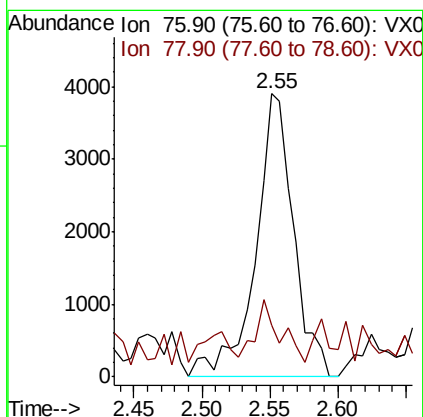
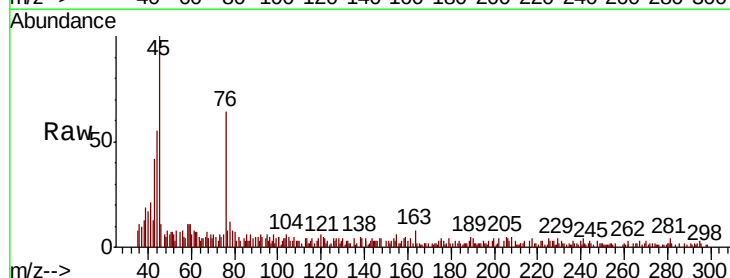
Instrument :
MSVOA_X
ClientSampled :

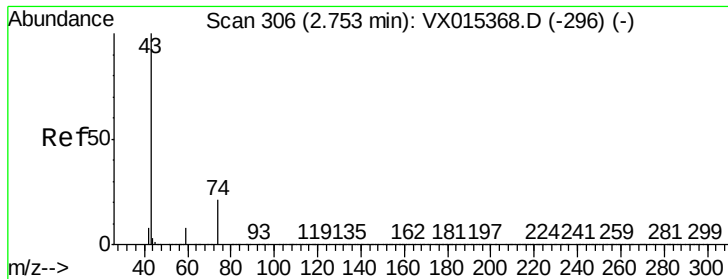
Tot Ion: 43 Resp: 19664
Ion Ratio Lower Upper
43 100
58 28.3 22.1 33.1



#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#

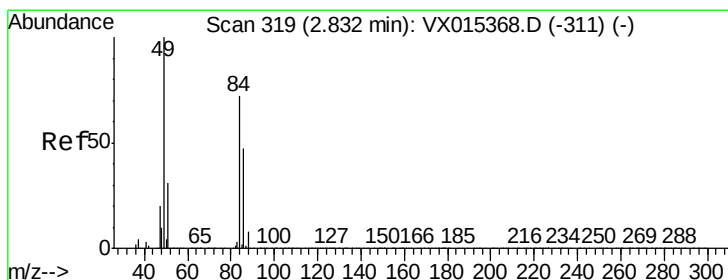
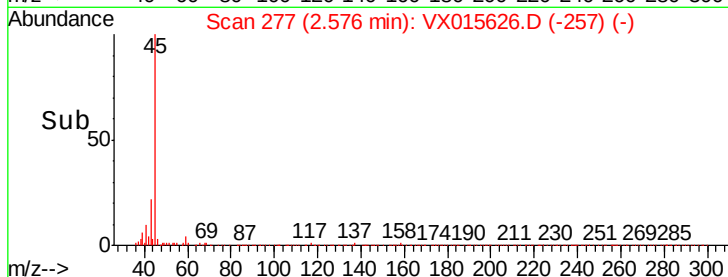
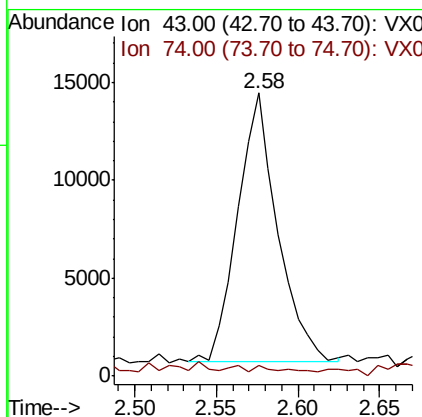
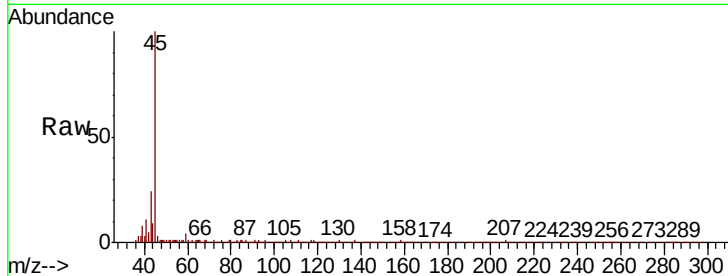




#18
Methyl Acetate
Concen: 1.374 ug/l
RT: 2.58 min Scan# 277
Delta R.T. -0.18 min
Lab File: VX015626.D
Acq: 10 Apr 2020 17:04

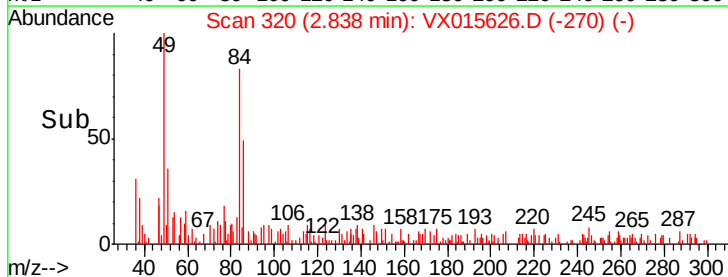
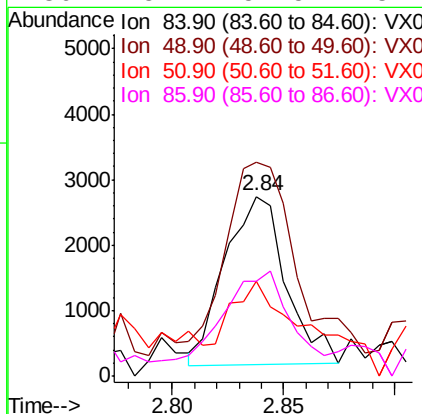
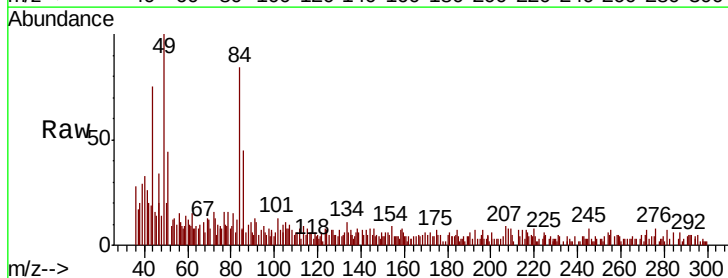
Instrument :
MSVOA_X
ClientSampleId :

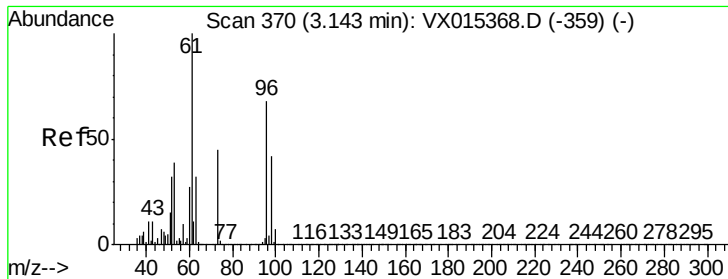
Tot Ion: 43 Resp: 23464
Ion Ratio Lower Upper
43 100
74 0.8 16.5 24.7#



#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 :

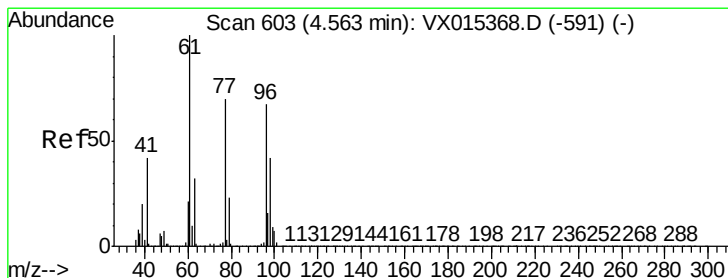
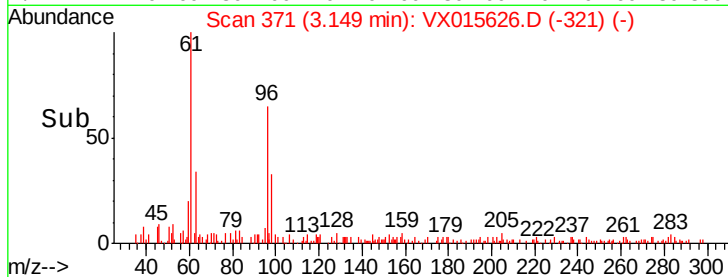
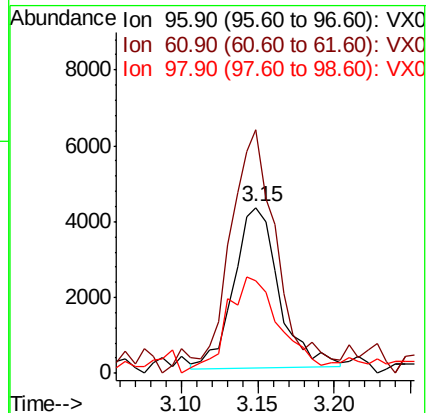
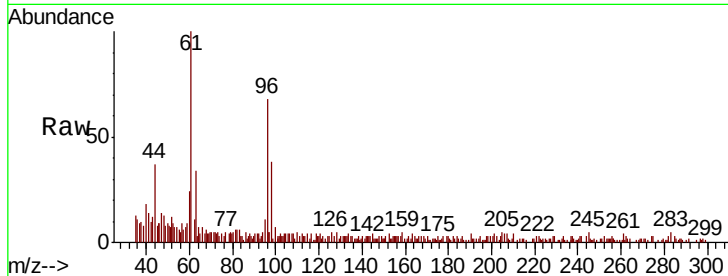
Tot Ion: 96 Resp: 8689

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

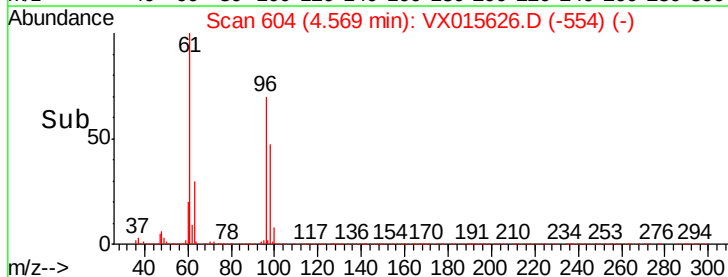
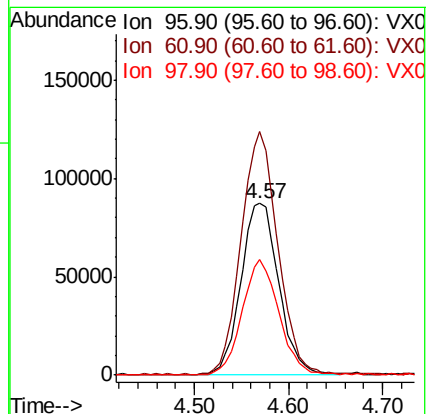
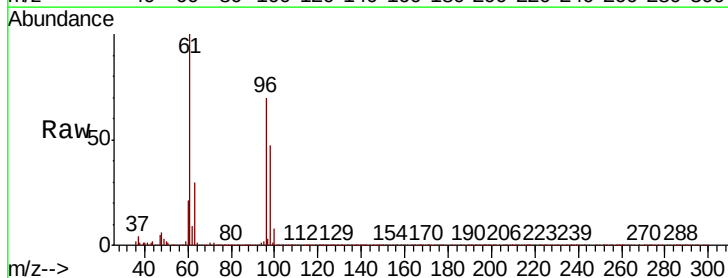
Tgt Ion: 96 Resp: 244454

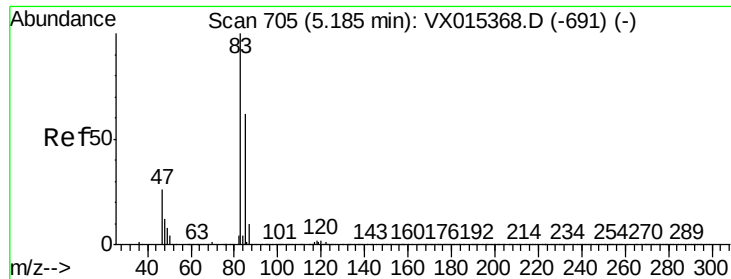
Ion Ratio Lower Upper

96 100

61 137.5 0.0 308.4

98 64.6 0.0 129.2

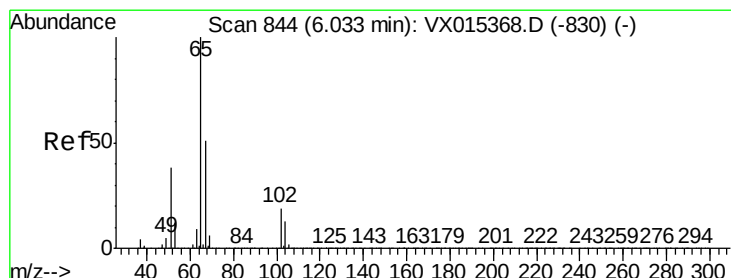
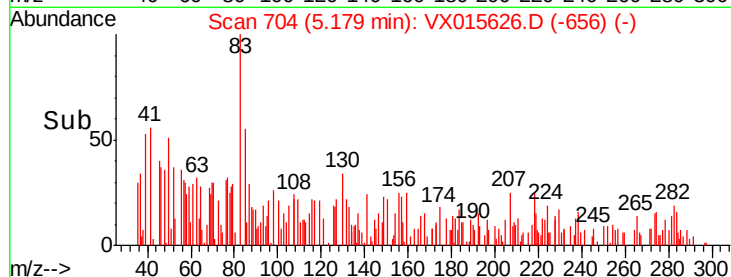
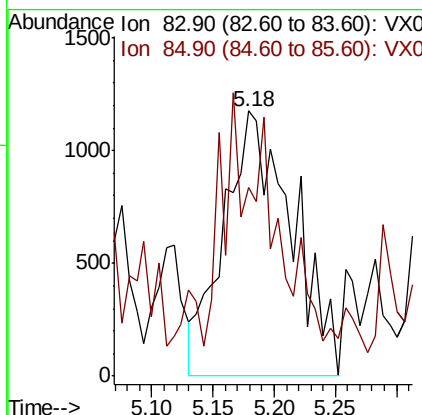
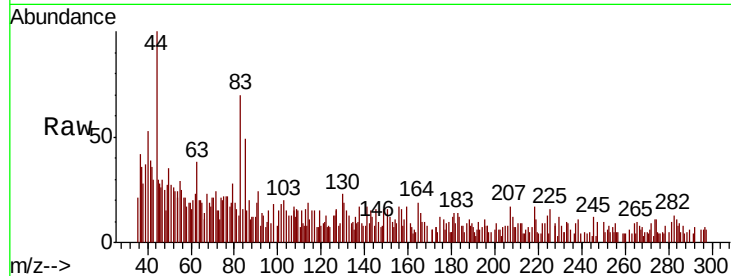




#30
Chloroform
Concen: 0.209 ug/l
RT: 5.18 min Scan# 704
Delta R.T. -0.01 min
Lab File: VX015626.D
Acq: 10 Apr 2020 17:04

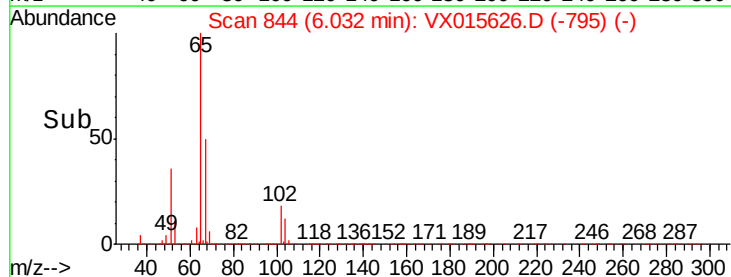
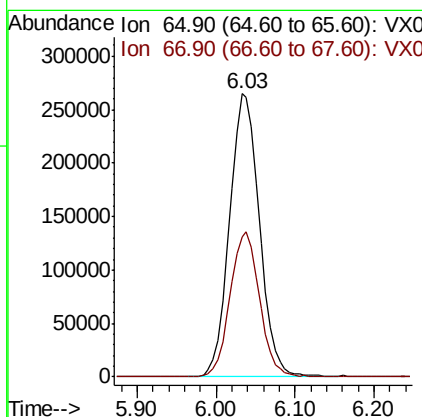
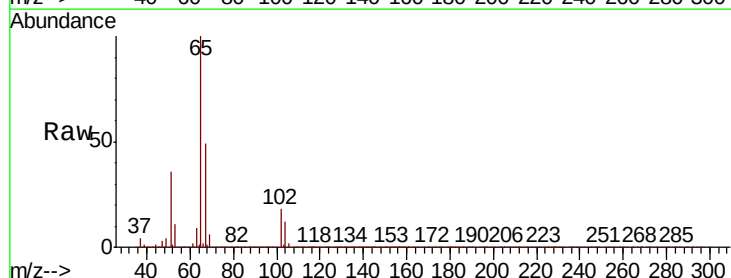
Instrument :
MSVOA_X
ClientSampled :

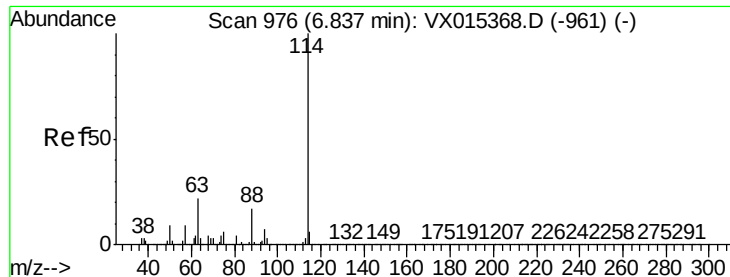
Tot Ion: 83 Resp: 4568
Ion Ratio Lower Upper
83 100
85 57.1 49.5 74.3



#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

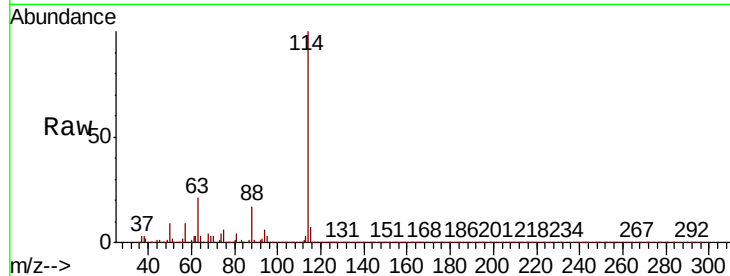




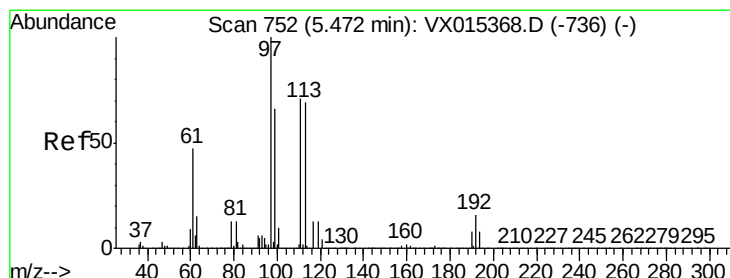
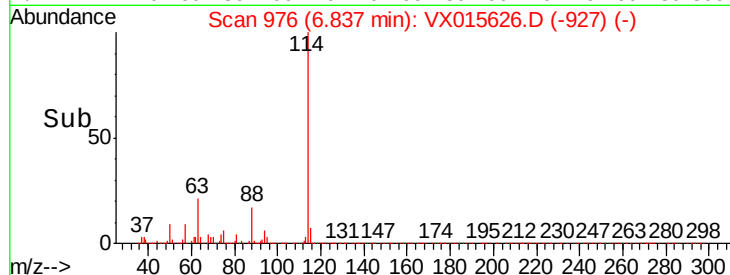
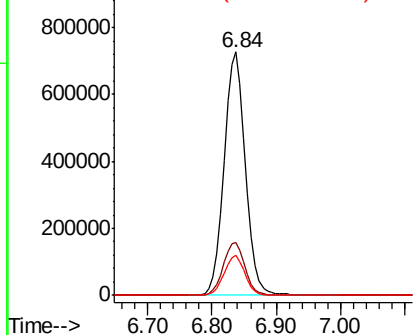
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.84 min Scan# 976
Delta R.T. -0.00 min
Lab File: VX015626.D
Acq: 10 Apr 2020 17:04

Instrument :
MSVOA_X
ClientSampleId :

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

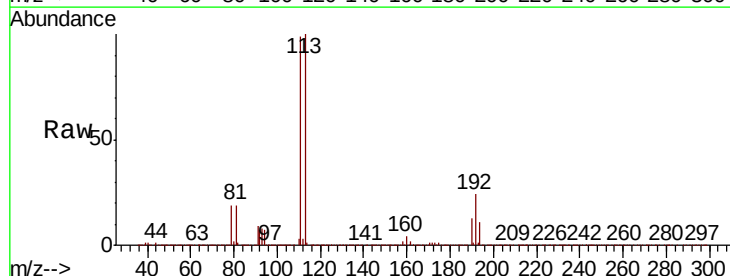


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

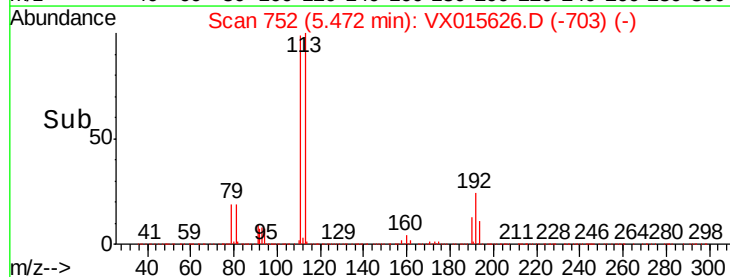
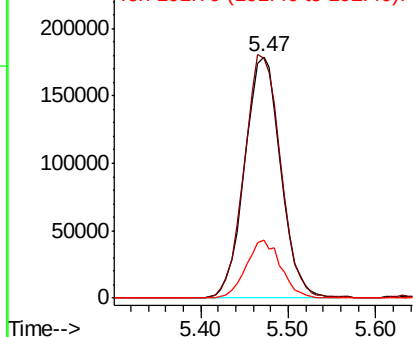


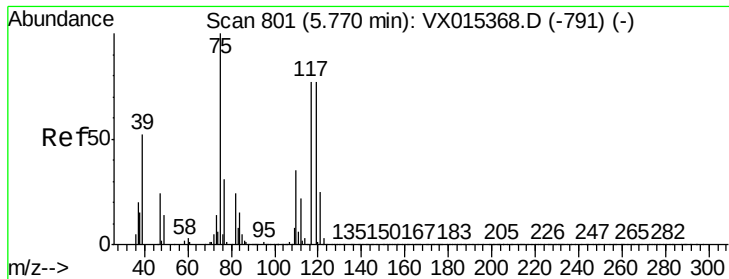
#35
Dibromofluoromethane
Concen: 47.142 ug/l
RT: 5.47 min Scan# 752
Delta R.T. -0.00 min
Lab File: VX015626.D
Acq: 10 Apr 2020 17:04

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

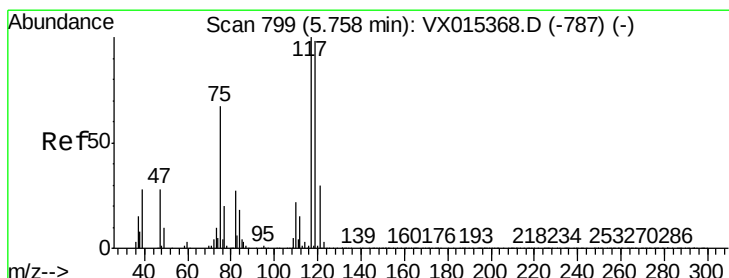
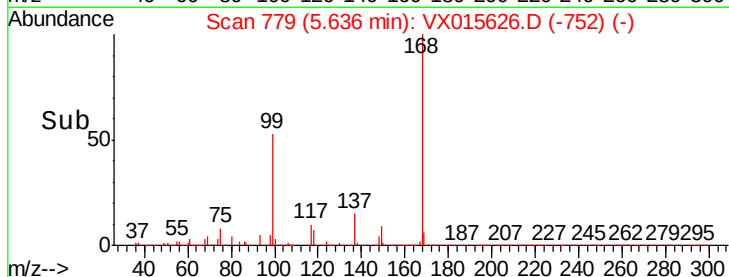
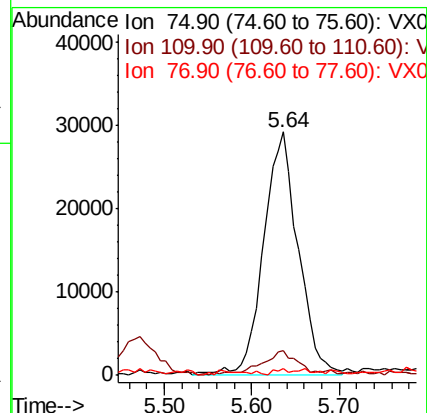
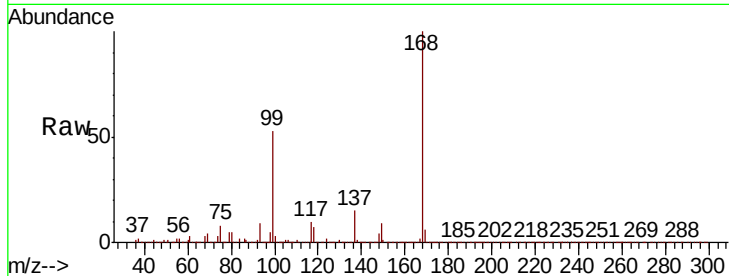




#36
 1,1-Dichloropropene
 Concen: 5.097 ug/l
 RT: 5.64 min Scan# 779
 Delta R.T. -0.13 min
 Lab File: VX015626.D
 Acq: 10 Apr 2020 17:04

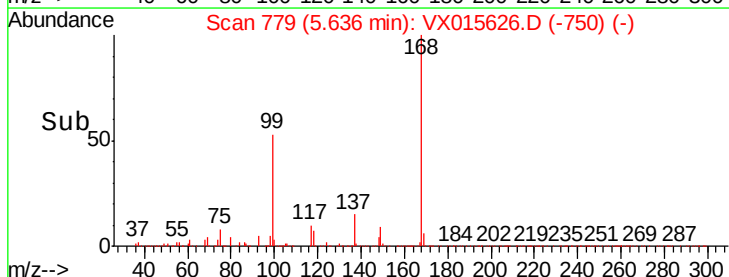
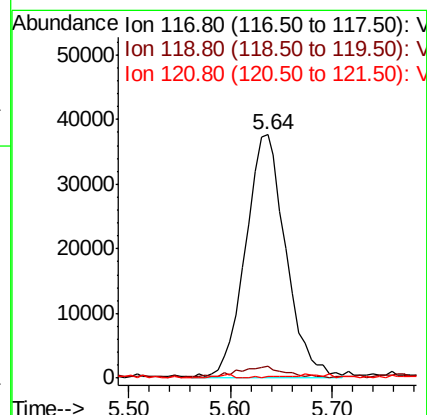
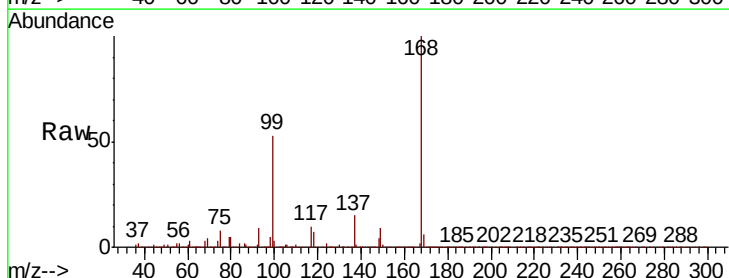
Instrument :
 MSVOA_X
 ClientSampleId :

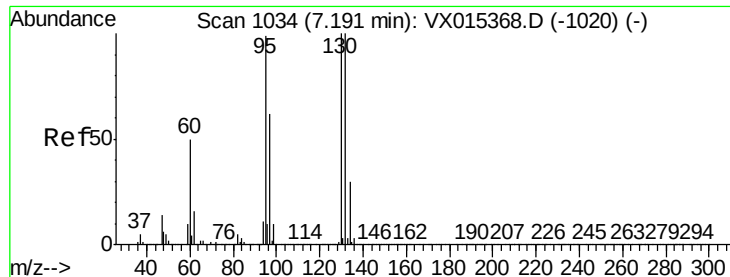
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.9	17.1	51.3#
77	1.1	24.6	36.8#



#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	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

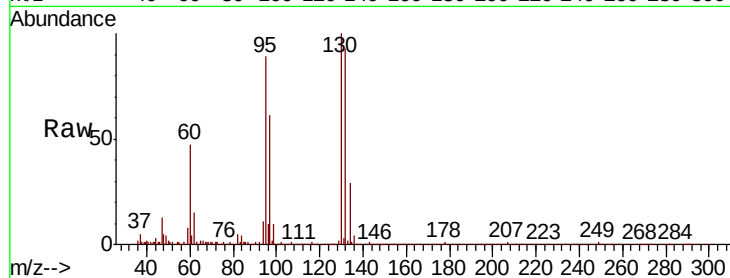
ClientSampleId :

Tot Ion:130 Resp: 128543

Ion Ratio Lower Upper

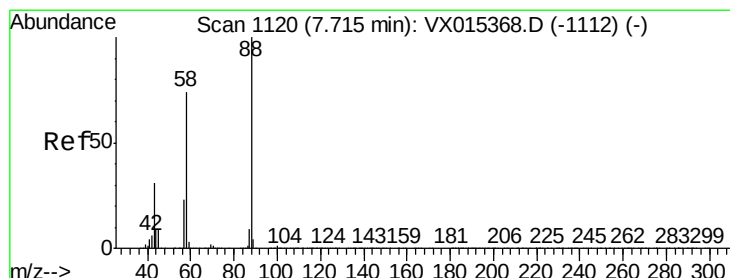
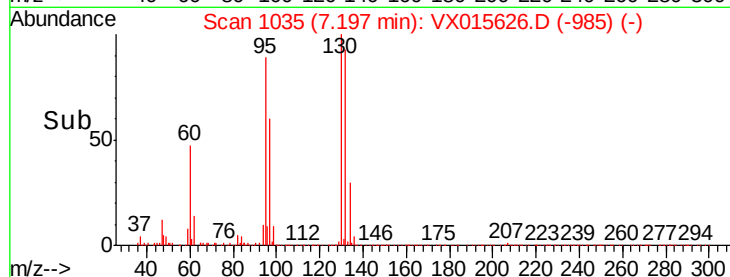
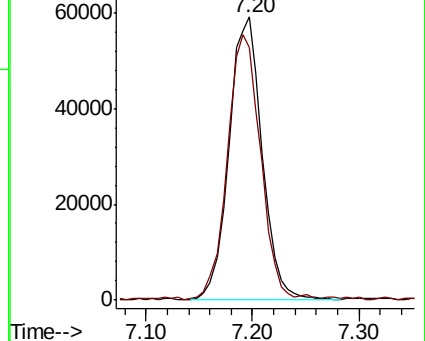
130 100

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

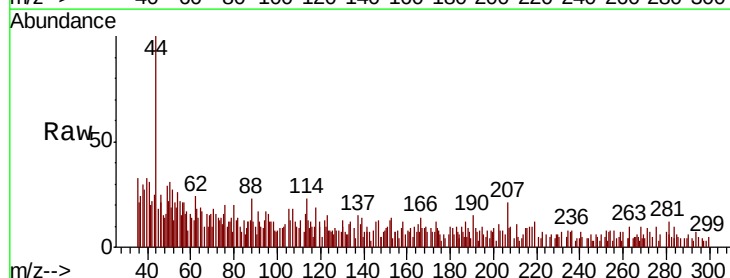
Tgt Ion: 88 Resp: 962

Ion Ratio Lower Upper

88 100

43 0.0 30.1 45.1#

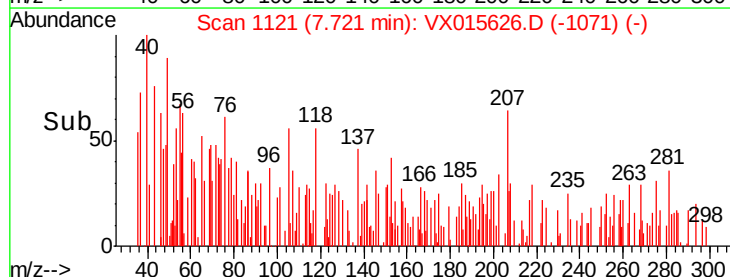
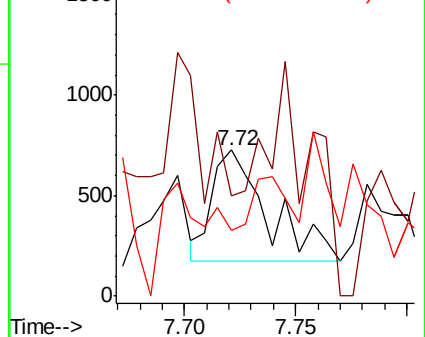
58 0.0 60.6 90.8#

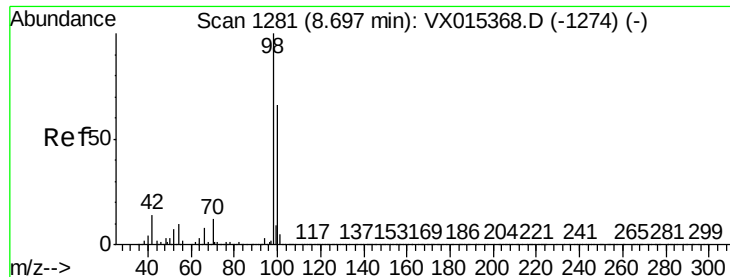


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

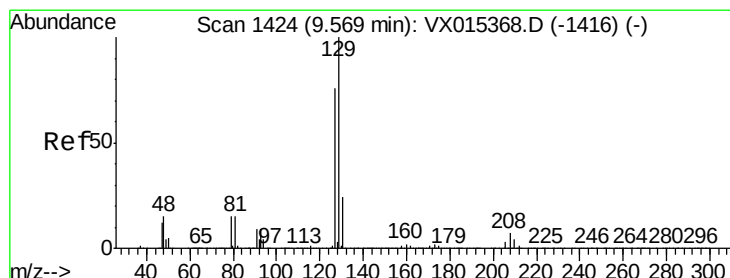
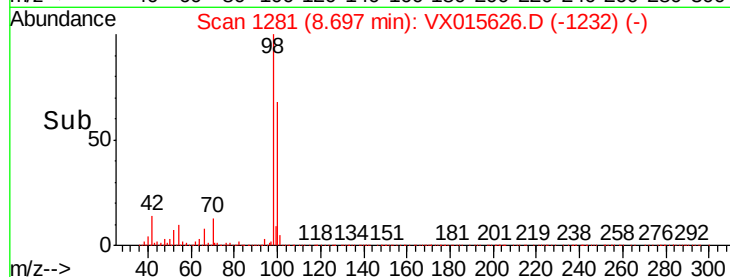
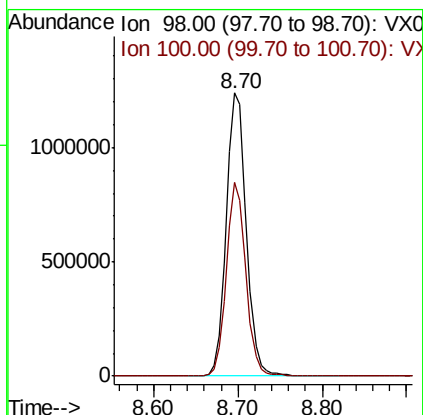
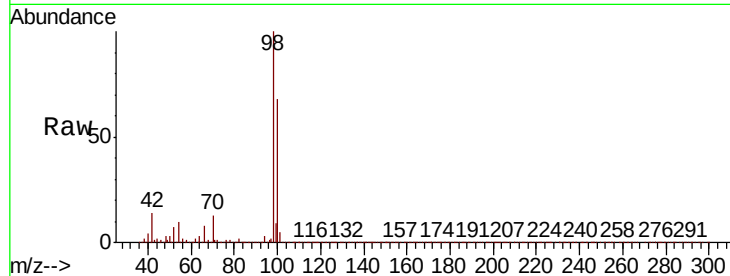




#50
Toluene-d8
Concen: 50.754 ug/l
RT: 8.70 min Scan# 1281
Delta R.T. -0.00 min
Lab File: VX015626.D
Acq: 10 Apr 2020 17:04

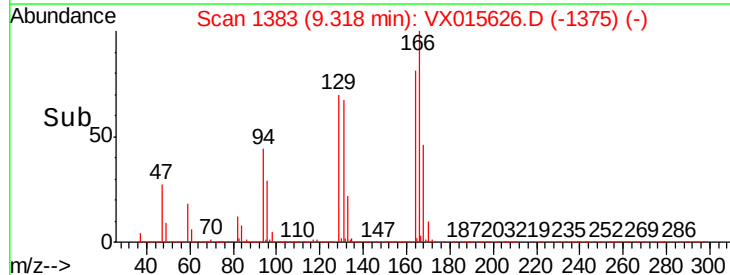
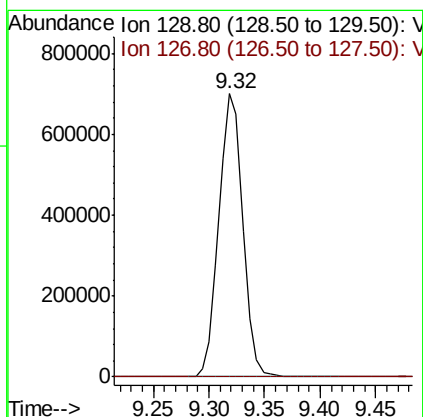
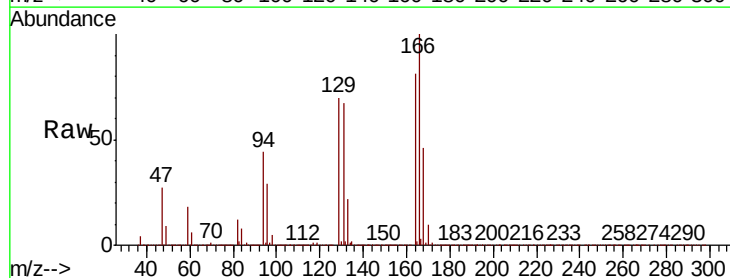
Instrument :
MSVOA_X
ClientSampled :

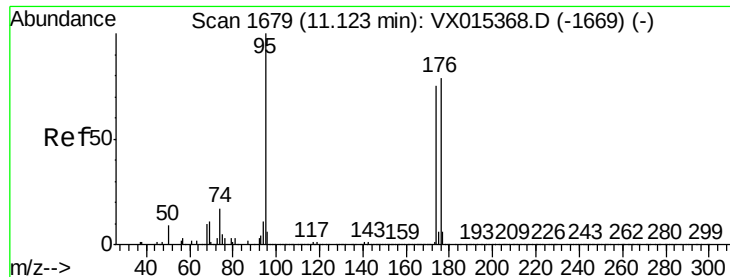
Tot Ion: 98 Resp: 2026925
Ion Ratio Lower Upper
98 100
100 66.6 53.5 80.3



#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#

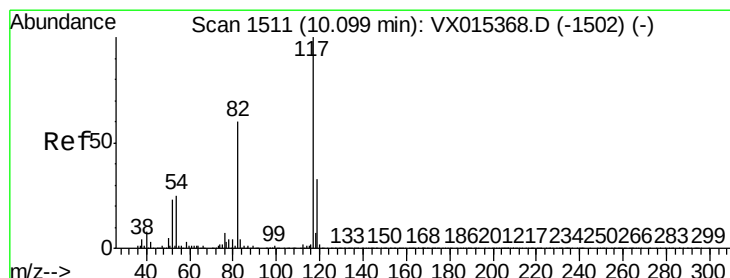
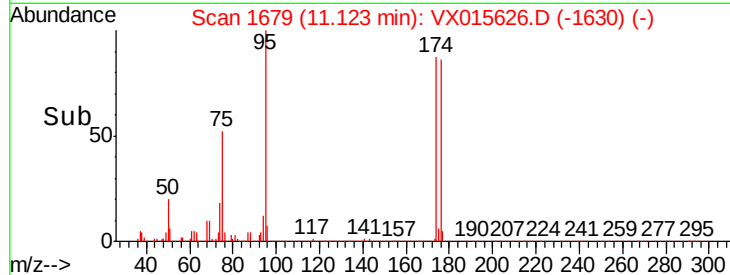
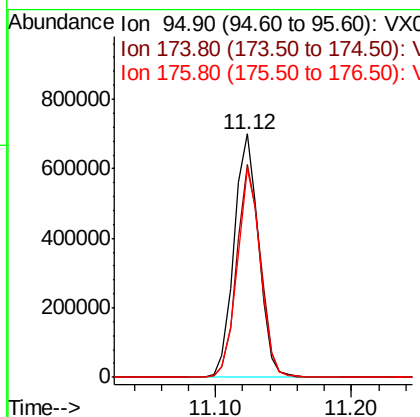
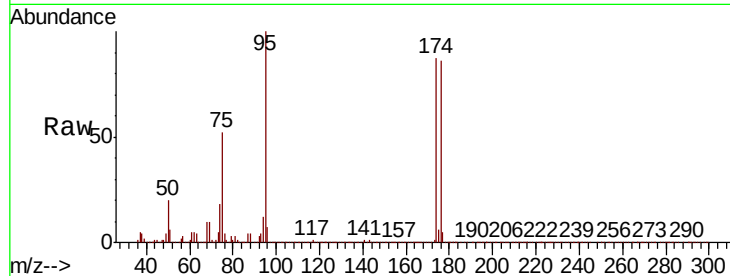




#62
4-Bromofluorobenzene
Concen: 54.022 ug/l
RT: 11.12 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VX015626.D
Acq: 10 Apr 2020 17:04

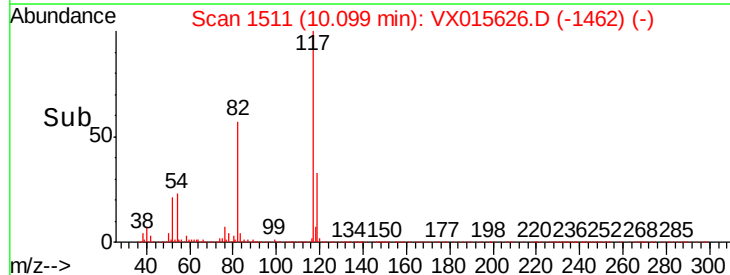
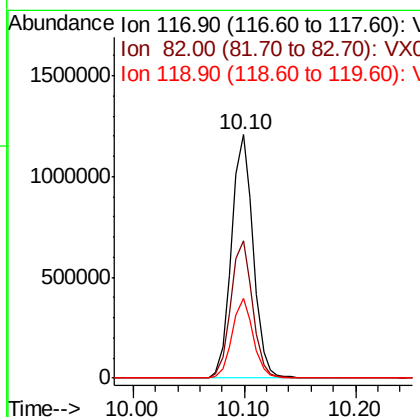
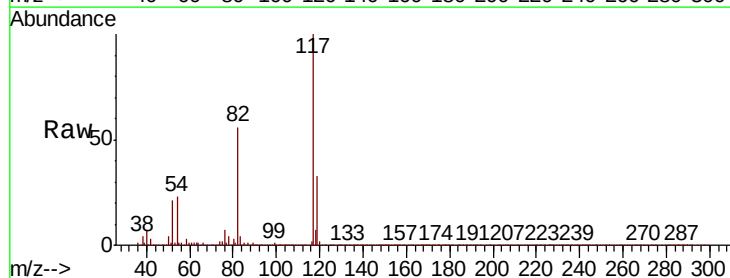
Instrument :
MSVOA_X
ClientSampleId :

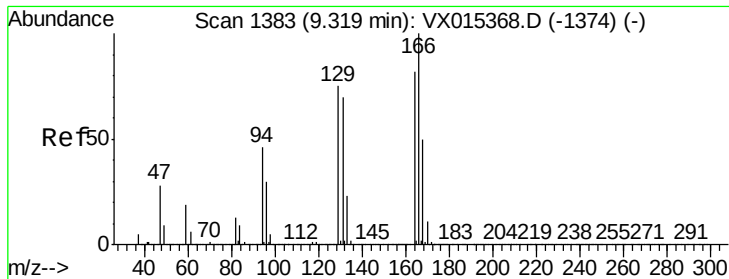
Tot Ion	Ratio	Lower	Upper
95	100		
174	85.1	0.0	158.6
176	81.6	0.0	159.0



#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	Ratio	Lower	Upper
117	100		
82	56.5	47.8	71.8
119	32.7	26.8	40.2



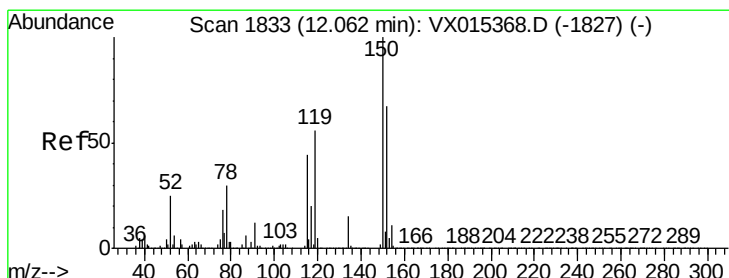
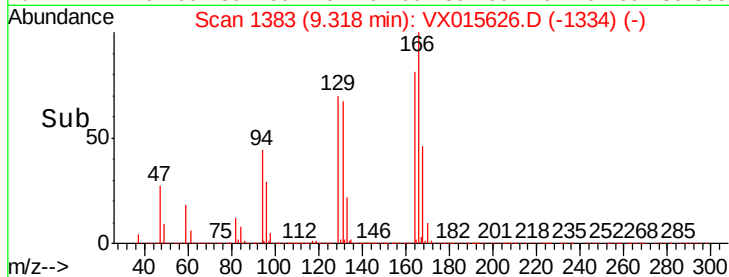
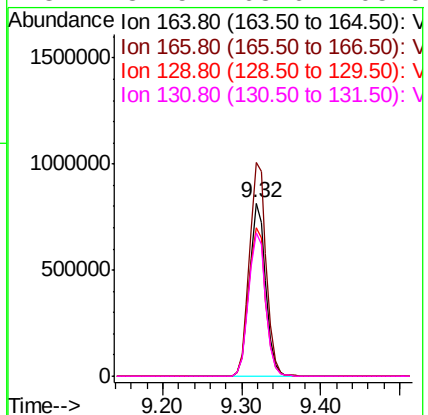
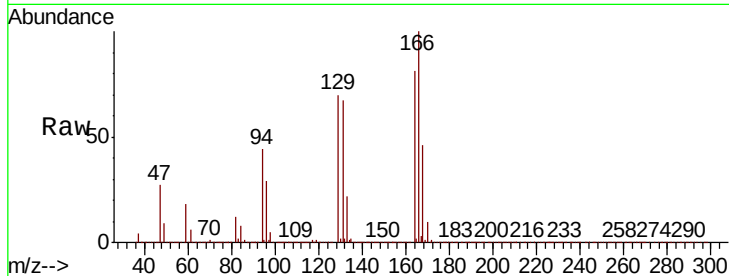


#64
Tetrachloroethene
Concen: 95.669 ug/l
RT: 9.32 min Scan# 1383
Delta R.T. -0.00 min
Lab File: VX015626.D
Acq: 10 Apr 2020 17:04

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:164 Resp: 1171922

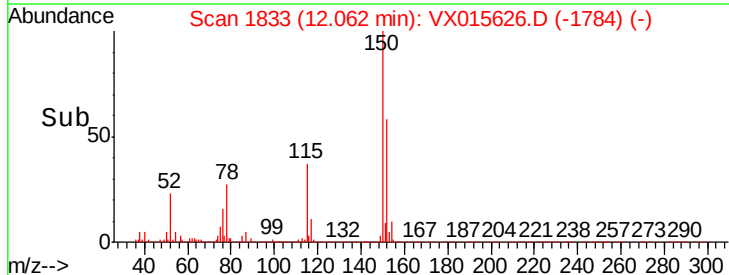
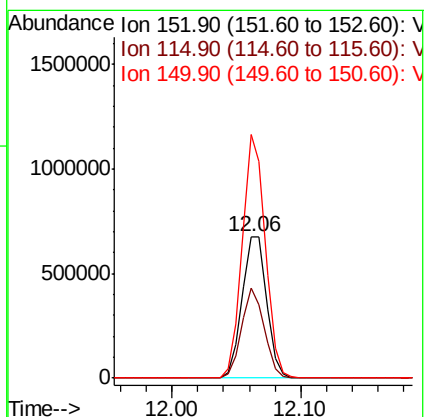
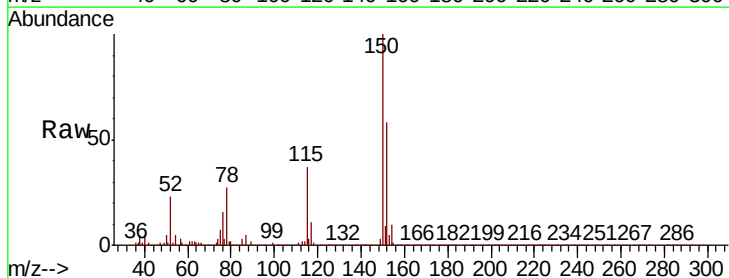
Ion	Ratio	Lower	Upper
164	100		
166	123.5	97.8	146.6
129	85.8	73.0	109.4
131	82.5	68.6	103.0

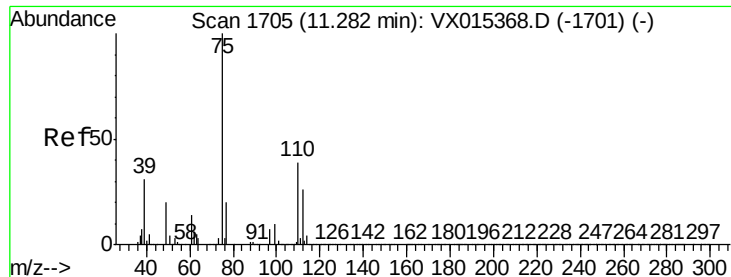


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1833
Delta R.T. -0.00 min
Lab File: VX015626.D
Acq: 10 Apr 2020 17:04

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

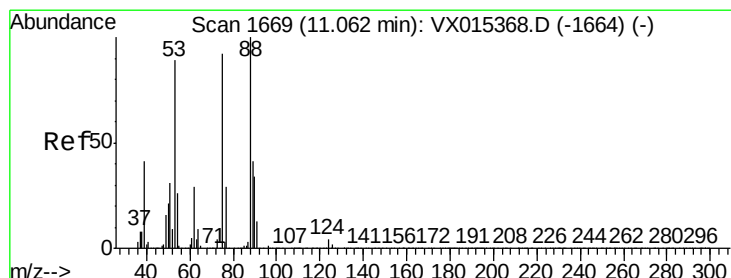
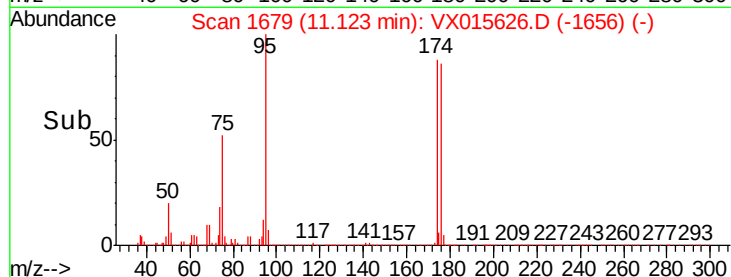
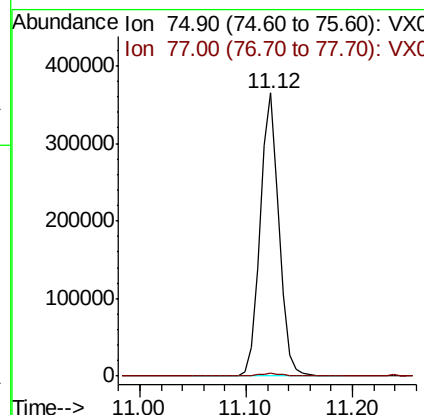
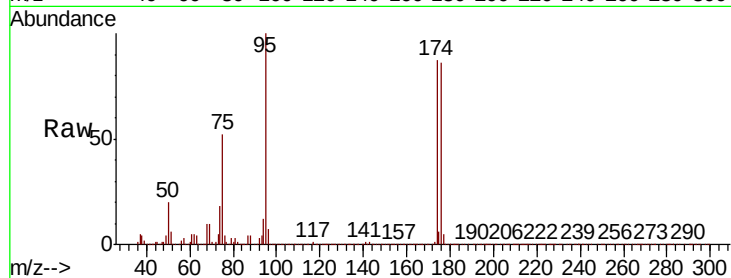




#76
 1,2,3-Trichloropropane
 Concen: 24.616 ug/l
 RT: 11.12 min Scan# 1679
 Delta R.T. -0.16 min
 Lab File: VX015626.D
 Acq: 10 Apr 2020 17:04

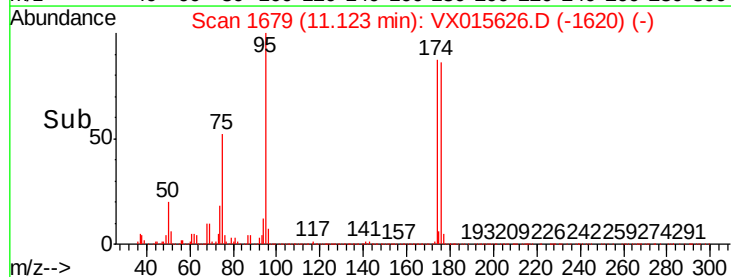
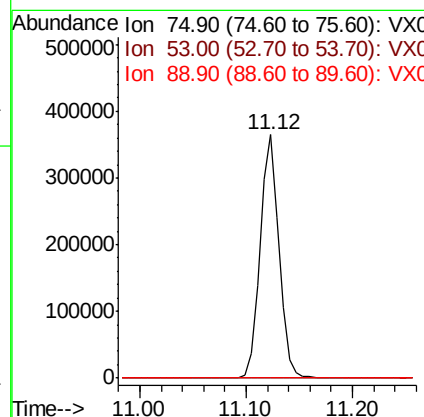
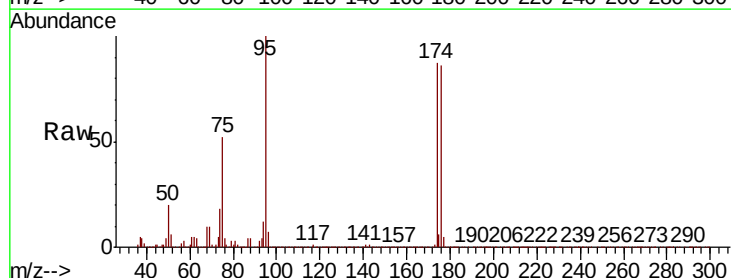
Instrument :
 MSVOA_X
 ClientSampled :

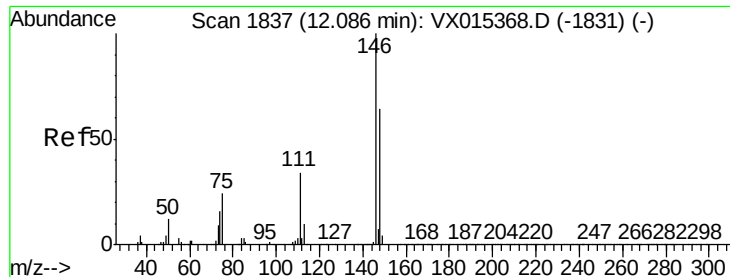
Tot Ion: 75 Resp: 449702
 Ion Ratio Lower Upper
 75 100
 77 1.1 21.2 63.6#



#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

ClientSampled :

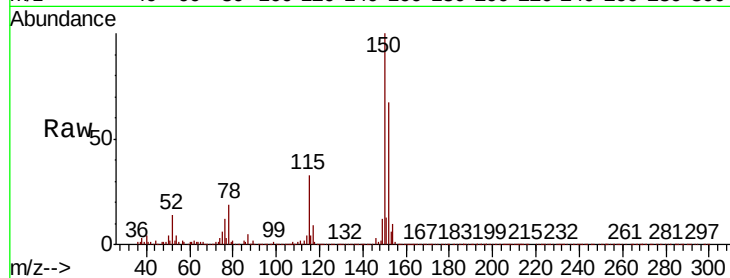
Tot Ion:146 Resp: 5826

Ion Ratio Lower Upper

146 100

111 228.5 19.1 57.5#

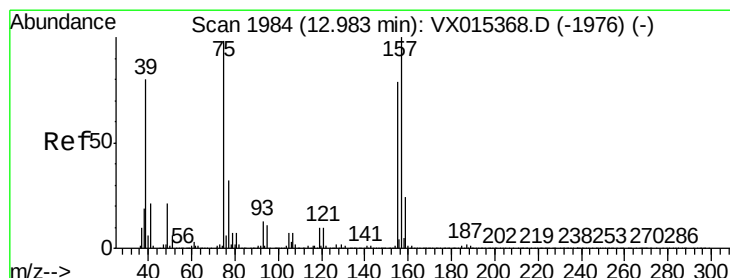
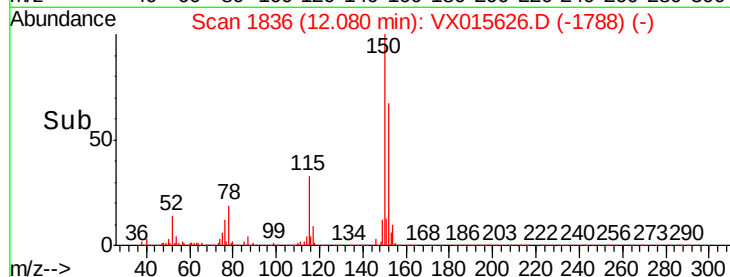
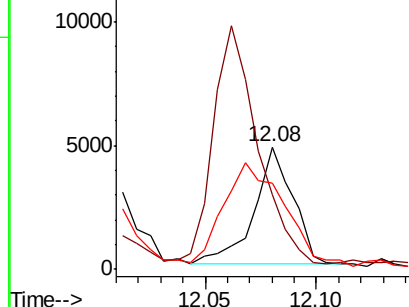
148 145.4 32.4 97.2#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#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

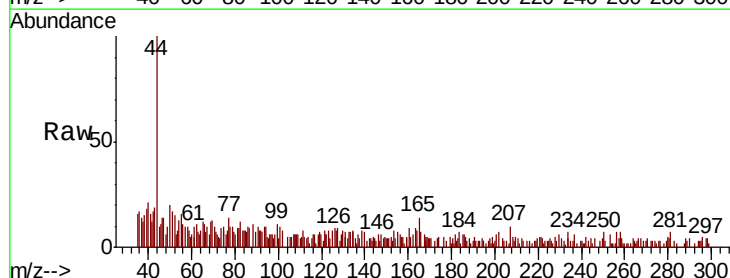
Tgt Ion: 75 Resp: 1153

Ion Ratio Lower Upper

75 100

155 65.5 42.8 128.4

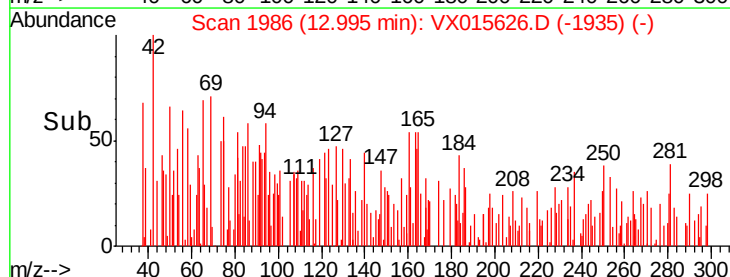
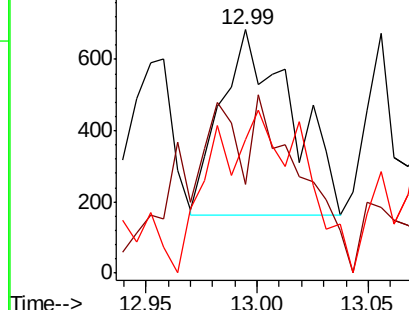
157 112.9 53.4 160.3

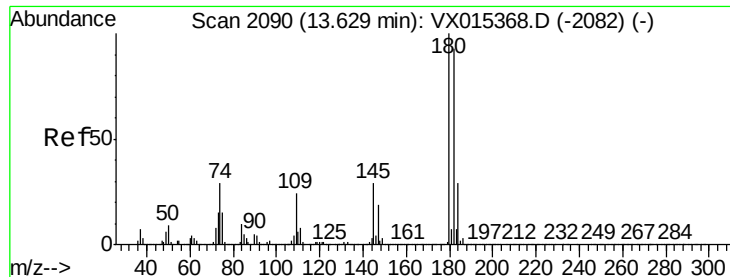


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

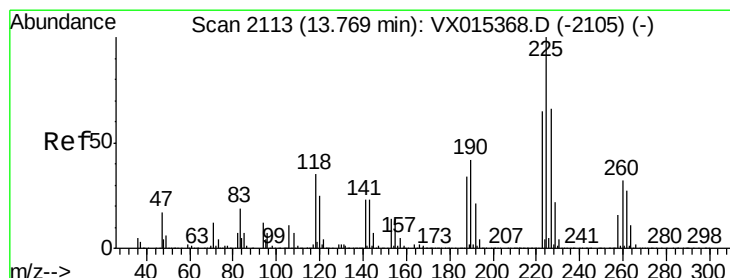
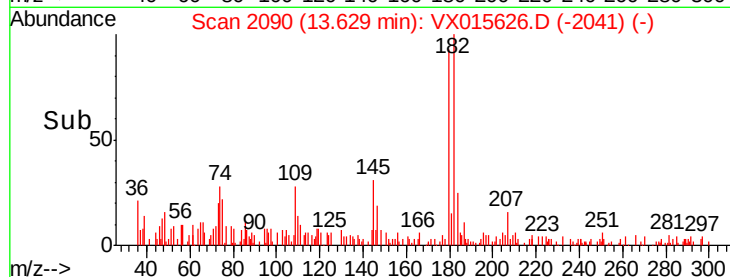
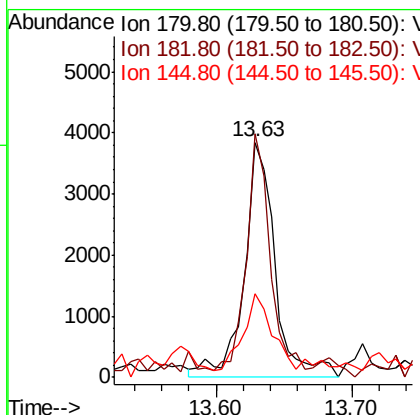
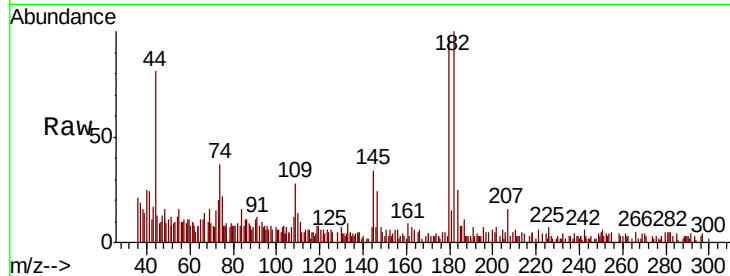




#93
 1,2,4-Trichlorobenzene
 Concen: 0.284 ug/l
 RT: 13.63 min Scan# 2090
 Delta R.T. -0.00 min
 Lab File: VX015626.D
 Acq: 10 Apr 2020 17:04

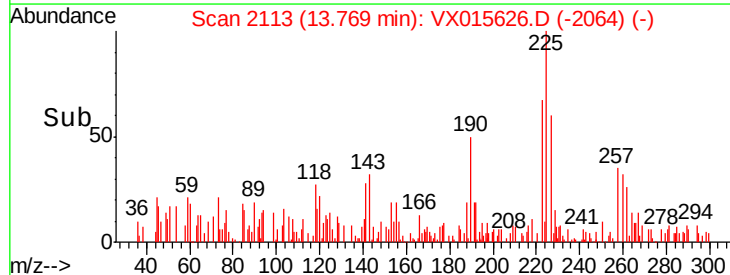
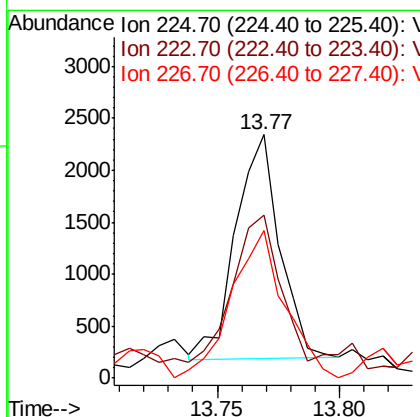
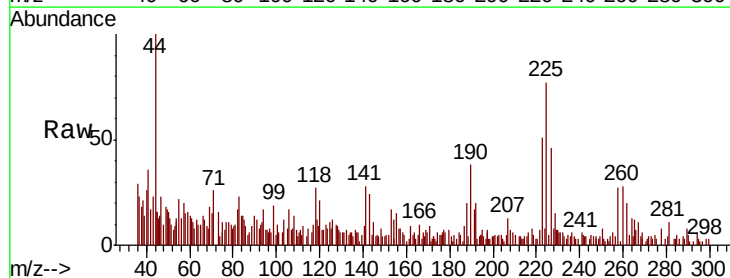
Instrument :
 MSVOA_X
 ClientSampled :

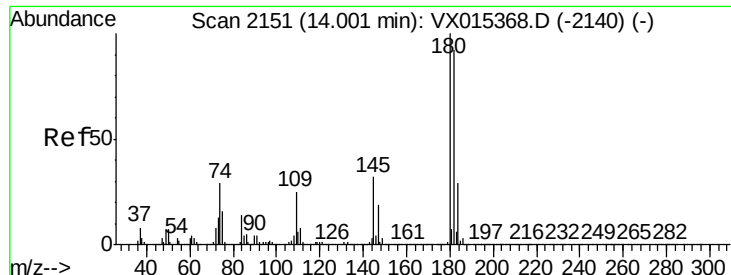
Tot Ion	Ratio	Lower	Upper
180	100		
182	75.4	46.9	140.7
145	30.2	14.9	44.5



#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

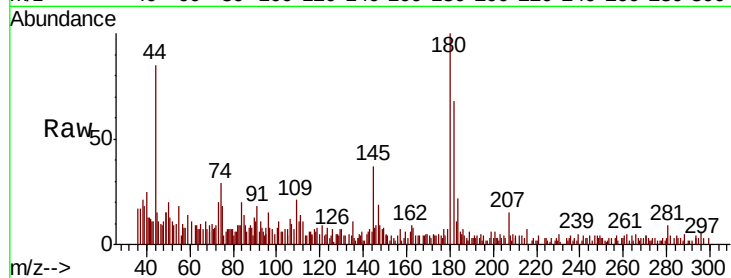




#96
 1,2,3-Trichlorobenzene
 Concen: 0.267 ug/l
 RT: 14.00 min Scan# 2151
 Delta R.T. -0.00 min
 Lab File: VX015626.D
 Acq: 10 Apr 2020 17:04

Instrument :
 MSVOA_X
 ClientSampleId :

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

