

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX020619\
 Data File : VX007391.D
 Acq On : 06 Feb 2019 11:21
 Operator : JC/SP
 Sample : VX0206WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0206WBL01

Quant Time: Feb 06 23:59:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 02 01:32:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	625872	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	935330	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	833564	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	366099	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	330635	49.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.54%	
35) Dibromofluoromethane	5.50	113	298472	49.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.08%	
50) Toluene-d8	8.71	98	1083357	47.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.96%	
62) 4-Bromofluorobenzene	11.13	95	357893	43.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.82%	

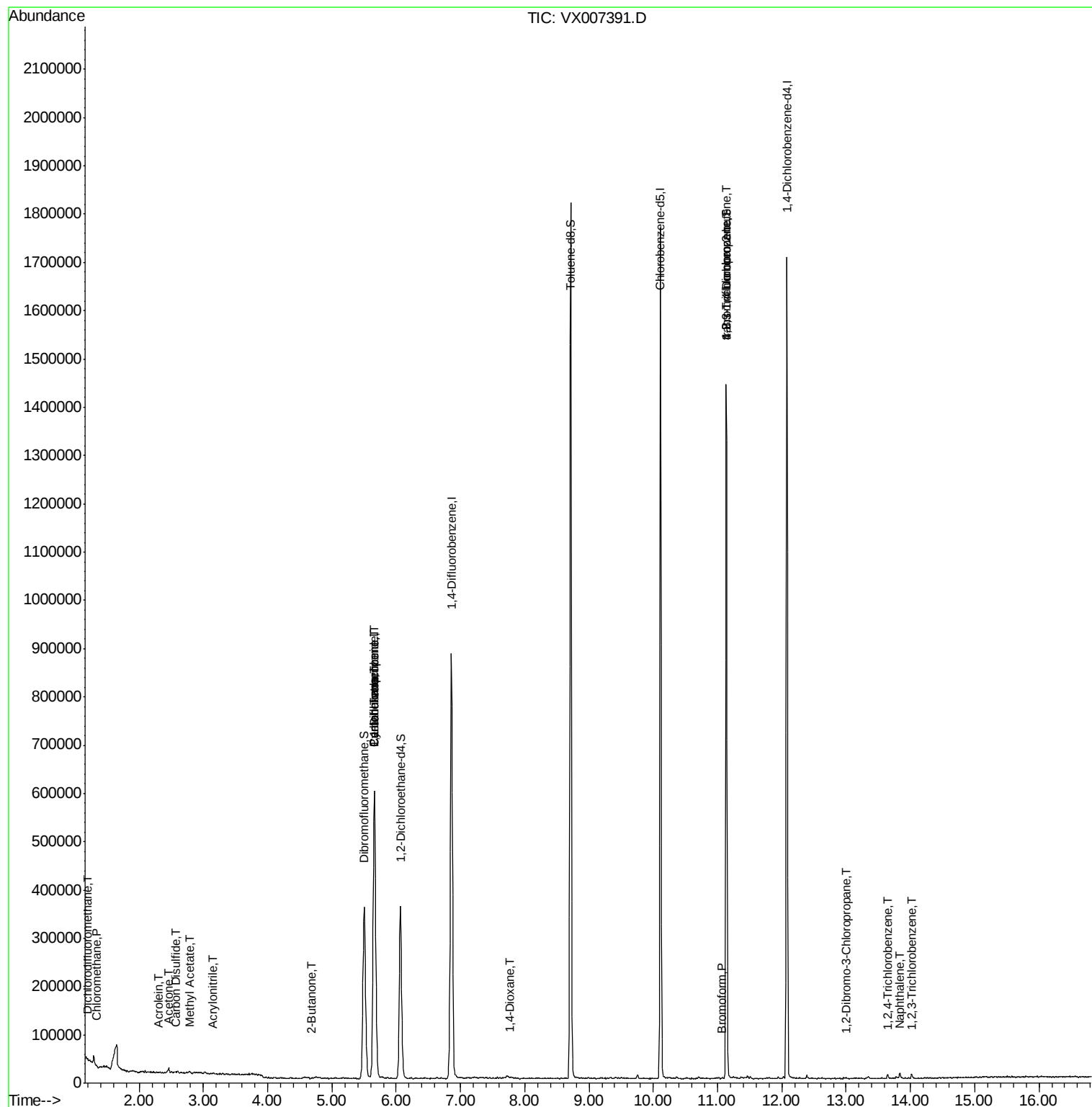
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	239	0.208	ug/l #	43
3) Chloromethane	1.34	50	1620	0.230	ug/l #	64
5) Bromomethane	1.65	94	1468	Below Cal	#	46
13) Acrolein	2.30	56	838	1.300	ug/l #	44
15) Acrylonitrile	3.15	53	1057	0.311	ug/l #	88
16) Acetone	2.45	43	1682	0.553	ug/l	100
17) Carbon Disulfide	2.57	76	3512	2.336	ug/l #	75
18) Methyl Acetate	2.78	43	4253	1.123	ug/l #	74
20) Methylene Chloride	2.85	84	1449	Below Cal	#	66
25) 2-Butanone	4.68	43	929	0.215	ug/l #	53
31) Cyclohexane	5.65	56	10336	1.119	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	38170	4.548	ug/l #	49
38) Carbon Tetrachloride	5.66	117	55801	6.854	ug/l #	16
49) 1,4-Dioxane	7.76	88	337	9.126	ug/l #	69
71) Bromoform	11.07	173	99	4.046	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	172965	24.289	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	172965	72.955	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	13.01	75	359	0.228	ug/l #	31
93) 1,2,4-Trichlorobenzene	13.65	180	2260	0.268	ug/l	94
95) Naphthalene	13.83	128	6582	0.267	ug/l #	85
96) 1,2,3-Trichlorobenzene	14.02	180	2273	0.267	ug/l #	90

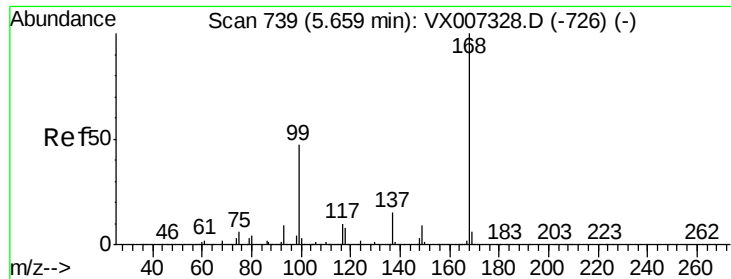
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 06 23:59:25 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
Quant Title : SW846 8260
QLast Update : Sat Feb 02 01:32:36 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX007391.D

Acq: 06 Feb 2019 11:21

Instrument :

MSVOA_X

ClientSampled :

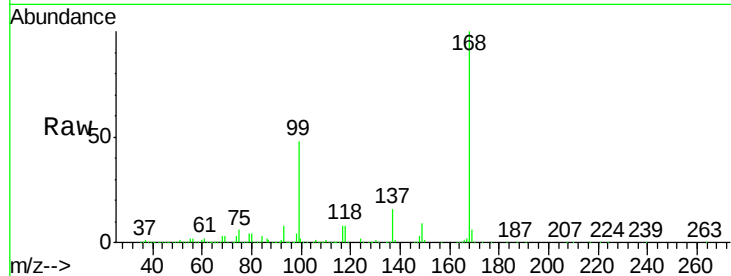
VX0206WBL01

Tot Ion:168 Resp: 625872

Ion Ratio Lower Upper

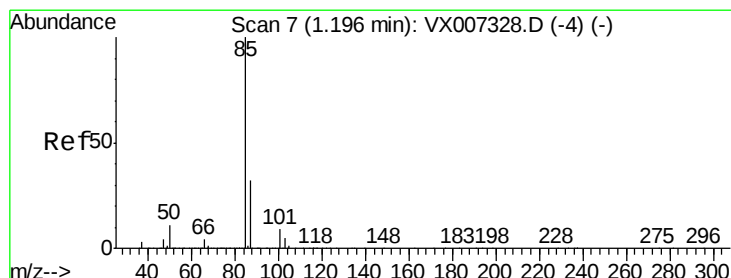
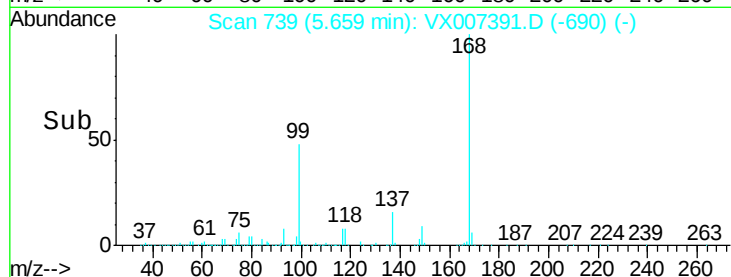
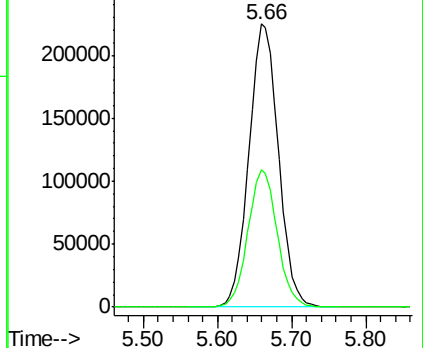
168 100

99 48.4 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.208 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX007391.D

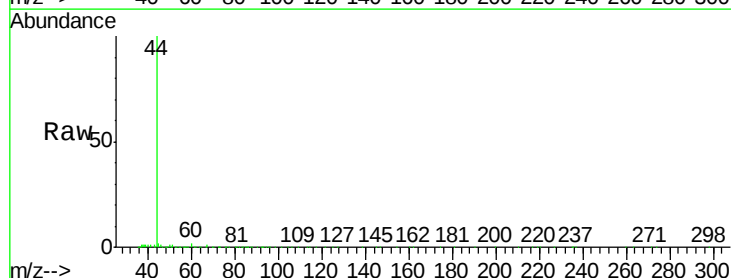
Acq: 06 Feb 2019 11:21

Tgt Ion: 85 Resp: 239

Ion Ratio Lower Upper

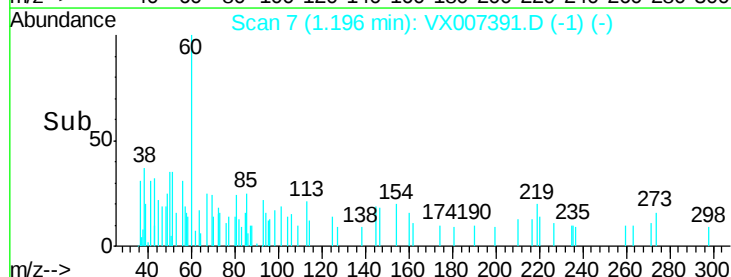
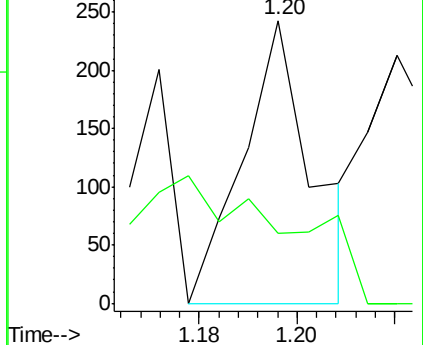
85 100

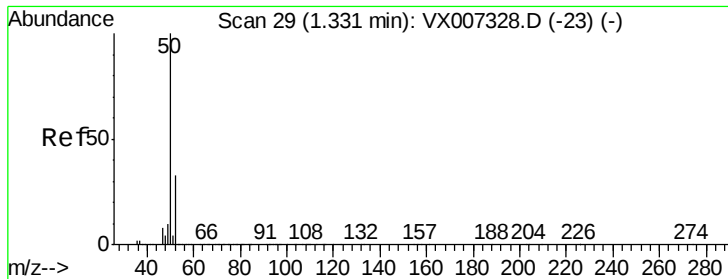
87 0.0 15.8 47.4#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.230 ug/l

RT: 1.34 min Scan# 30

Delta R.T. 0.01 min

Lab File: VX007391.D

Acq: 06 Feb 2019 11:21

Instrument :

MSVOA_X

ClientSampled :

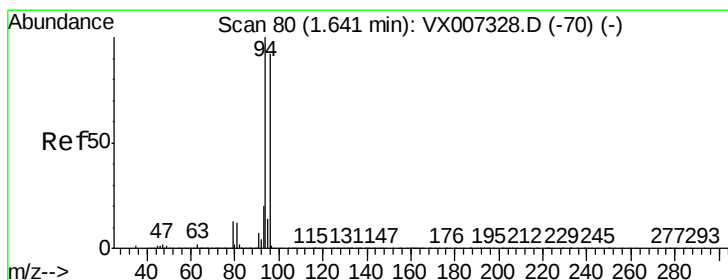
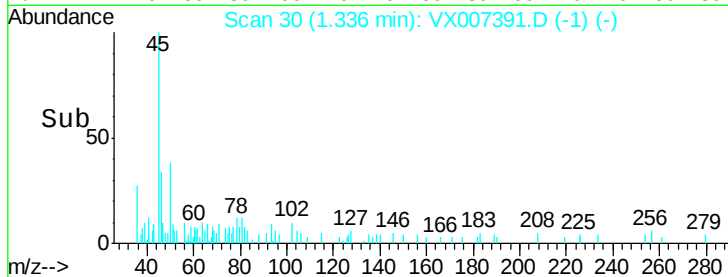
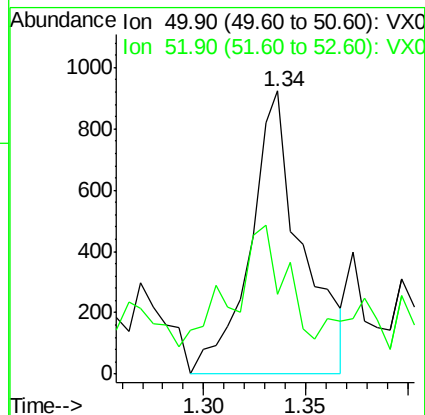
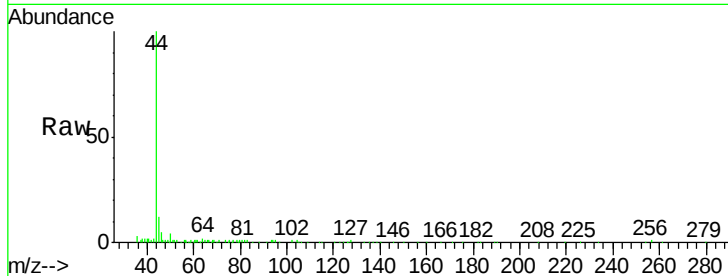
VX0206WBL01

Tot Ion: 50 Resp: 1620

Ion Ratio Lower Upper

50 100

52 12.6 26.1 39.1#



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX007391.D

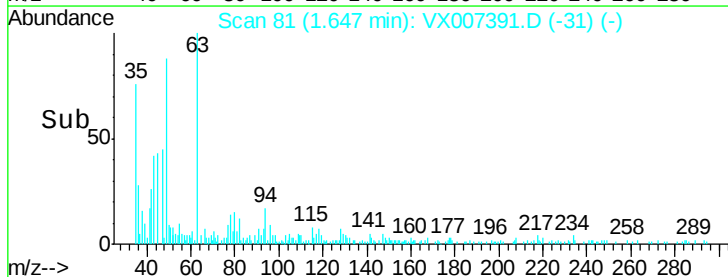
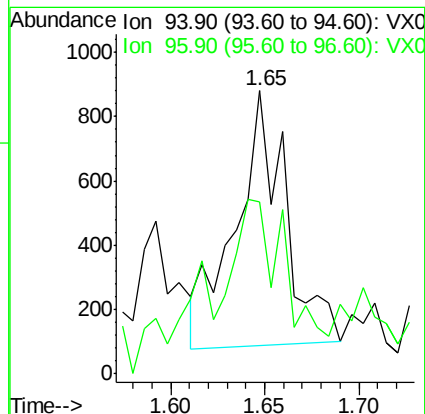
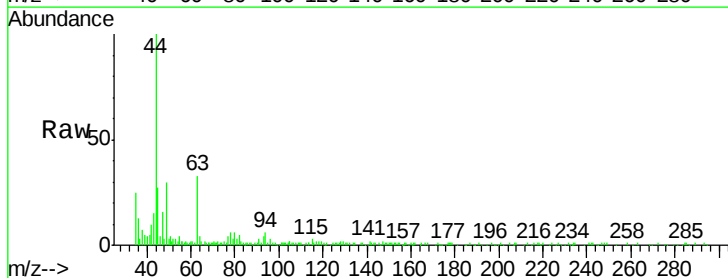
Acq: 06 Feb 2019 11:21

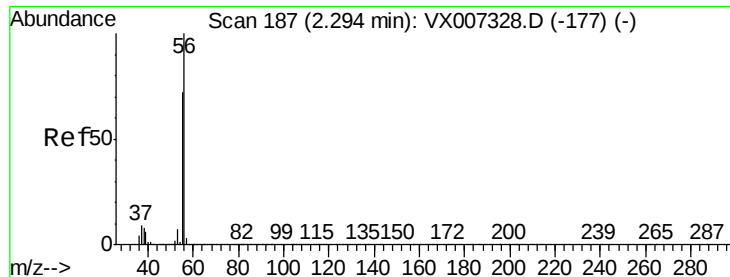
Tgt Ion: 94 Resp: 1468

Ion Ratio Lower Upper

94 100

96 40.9 73.9 110.9#





#13

Acrolein

Concen: 1.300 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX007391.D

Acq: 06 Feb 2019 11:21

Instrument :

MSVOA_X

ClientSampled :

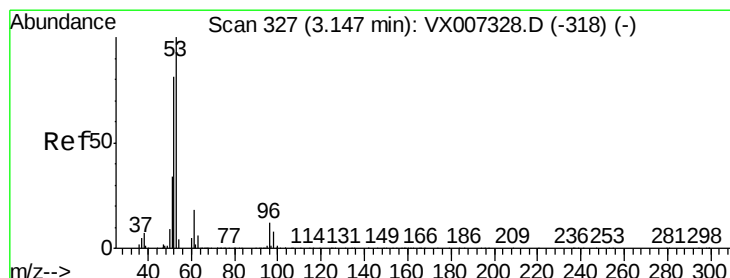
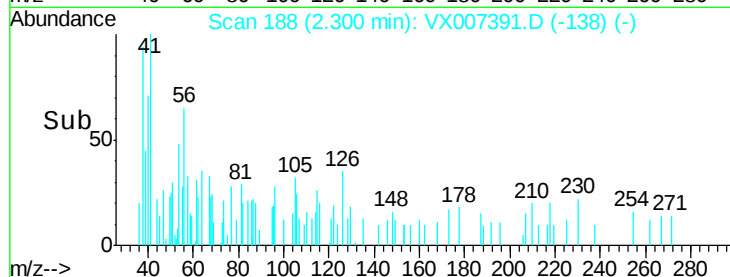
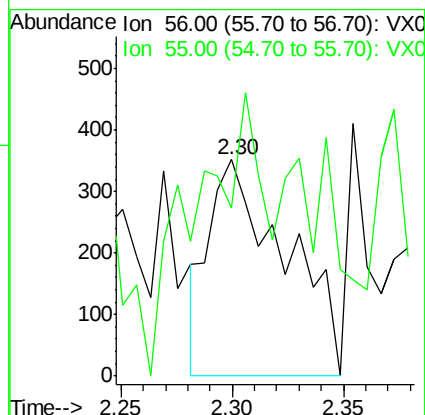
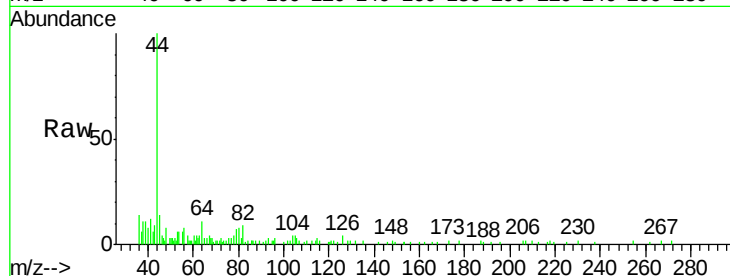
VX0206WBL01

Tot Ion: 56 Resp: 838

Ion Ratio Lower Upper

56 100

55 117.4 56.9 85.3#



#15

Acrylonitrile

Concen: 0.311 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.00 min

Lab File: VX007391.D

Acq: 06 Feb 2019 11:21

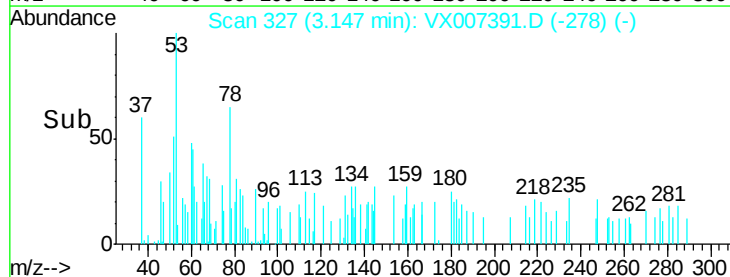
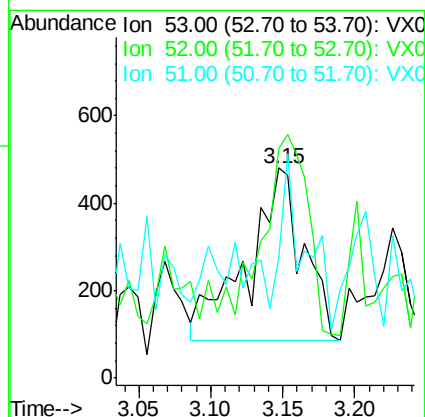
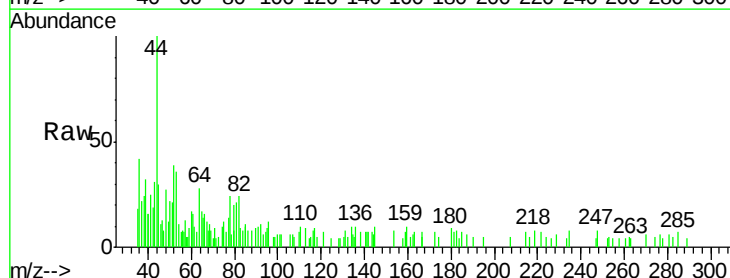
Tgt Ion: 53 Resp: 1057

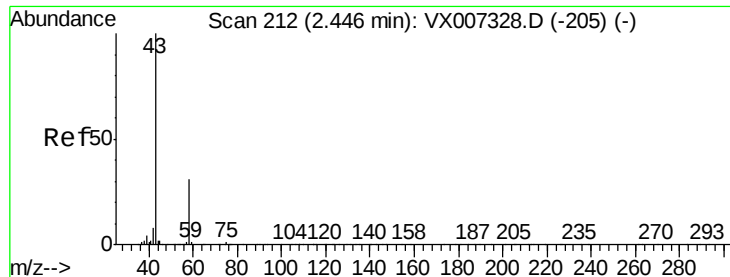
Ion Ratio Lower Upper

53 100

52 92.5 66.4 99.6

51 44.8 28.4 42.6#





#16

Acetone

Concen: 0.553 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX007391.D

Acq: 06 Feb 2019 11:21

Instrument :

MSVOA_X

ClientSampleId :

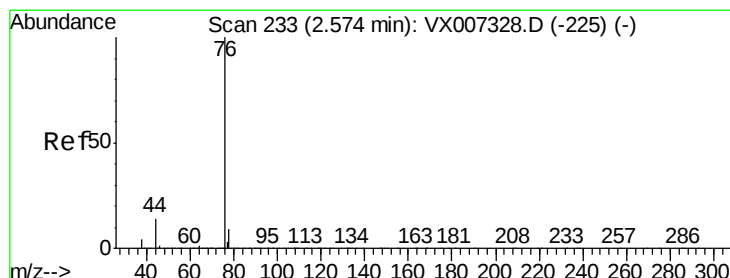
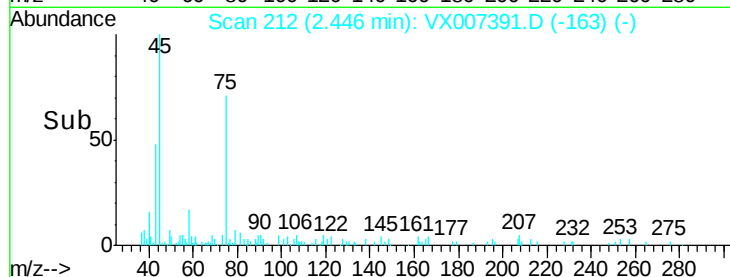
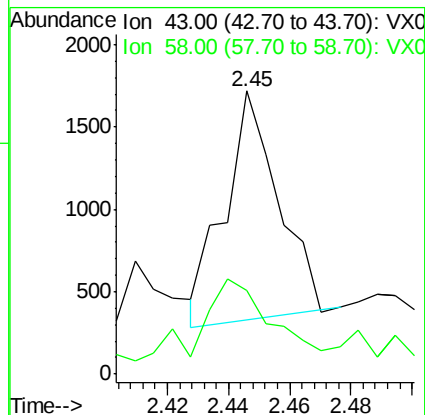
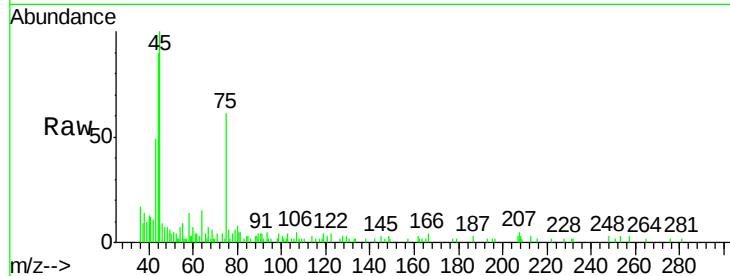
VX0206WBL01

Tot Ion: 43 Resp: 1682

Ion Ratio Lower Upper

43 100

58 31.3 24.9 37.3



#17

Carbon Disulfide

Concen: 2.336 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.01 min

Lab File: VX007391.D

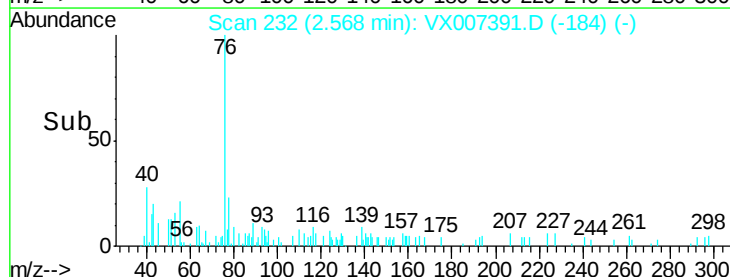
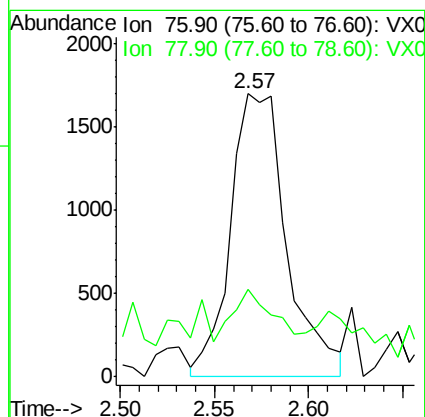
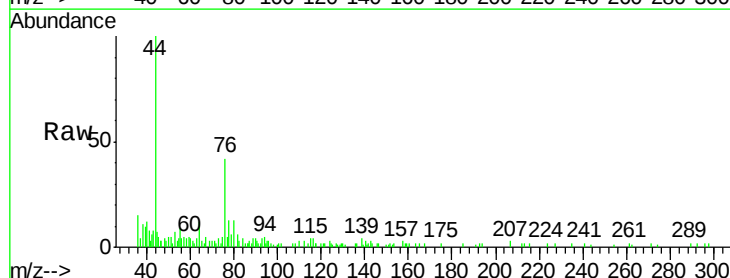
Acq: 06 Feb 2019 11:21

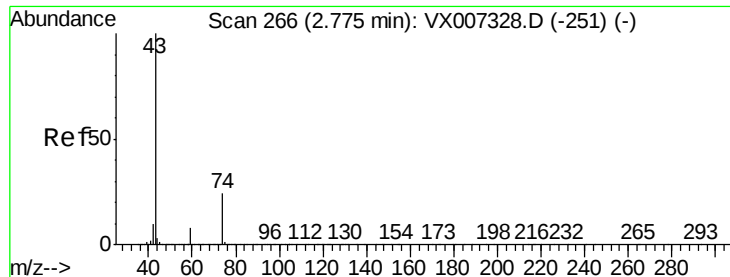
Tgt Ion: 76 Resp: 3512

Ion Ratio Lower Upper

76 100

78 17.8 7.1 10.7#

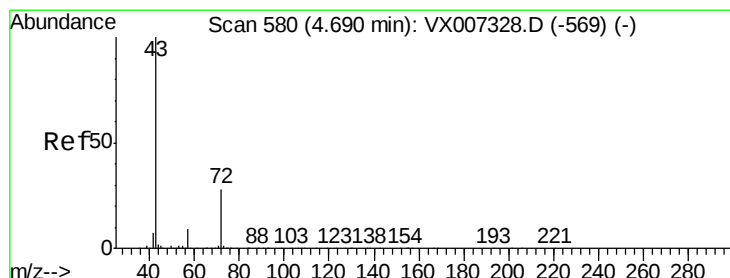
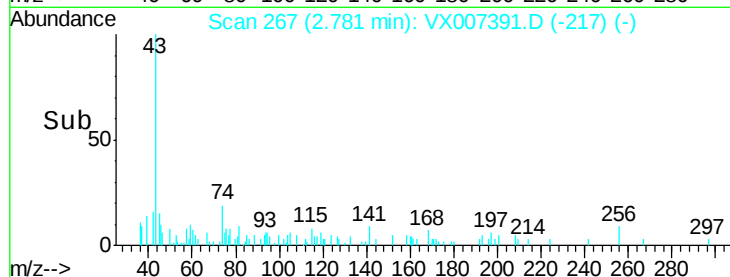
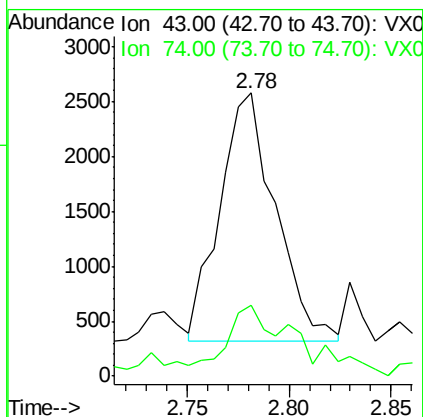
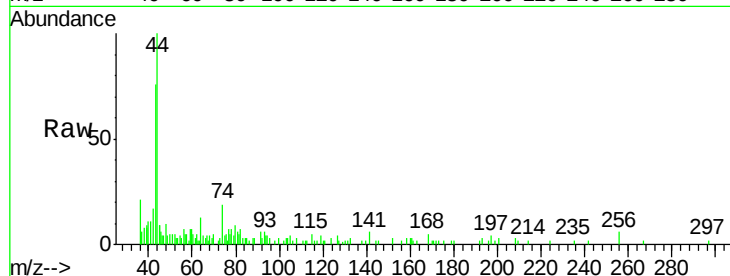




#18
Methyl Acetate
Concen: 1.123 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX007391.D
Acq: 06 Feb 2019 11:21

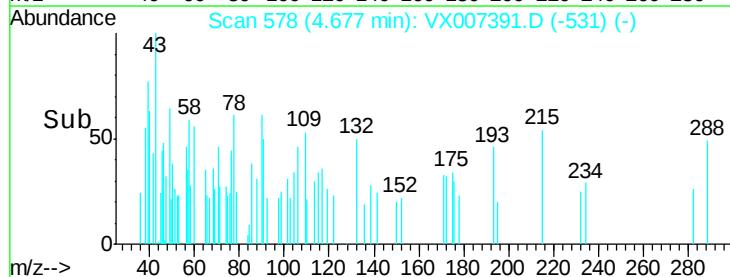
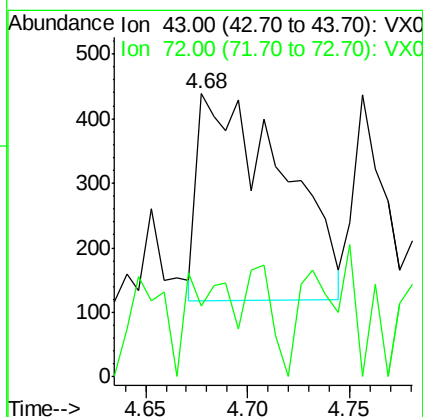
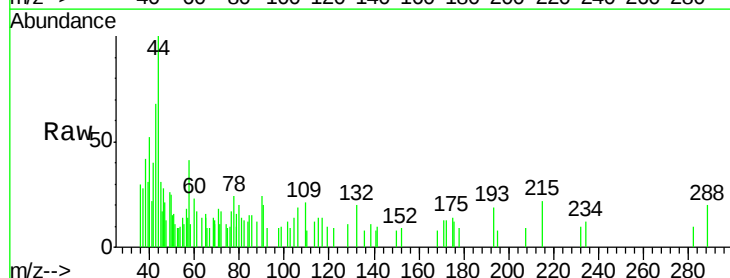
Instrument :
MSVOA_X
ClientSampled :
VX0206WBL01

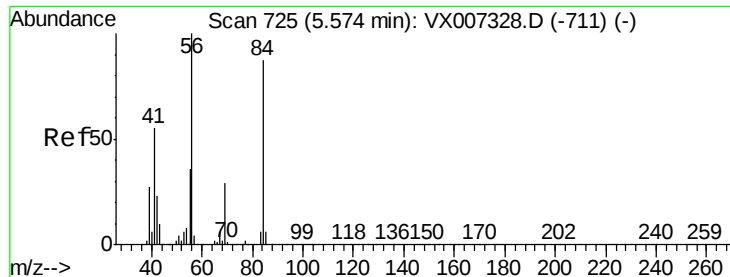
Tot Ion: 43 Resp: 4253
Ion Ratio Lower Upper
43 100
74 37.2 19.4 29.2#



#25
2-Butanone
Concen: 0.215 ug/l
RT: 4.68 min Scan# 578
Delta R.T. -0.01 min
Lab File: VX007391.D
Acq: 06 Feb 2019 11:21

Tgt Ion: 43 Resp: 929
Ion Ratio Lower Upper
43 100
72 3.1 22.2 33.2#

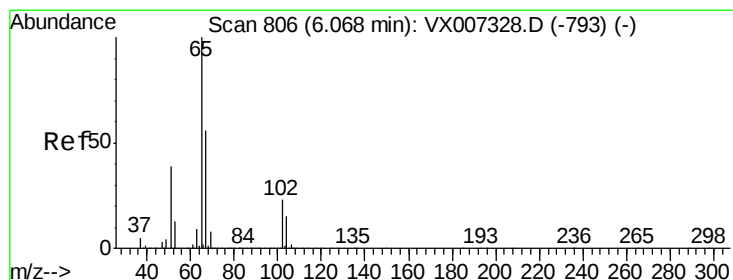
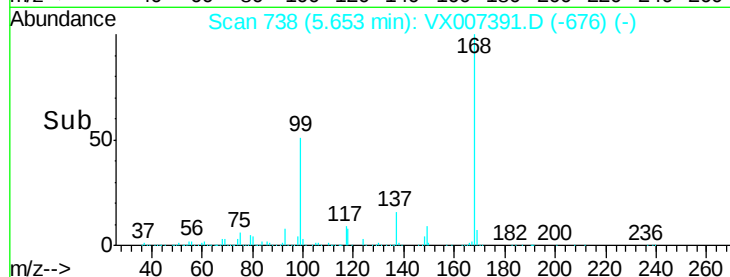
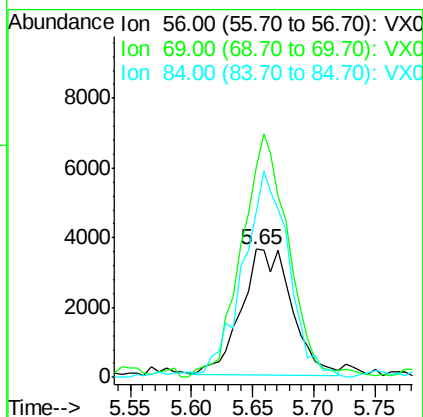
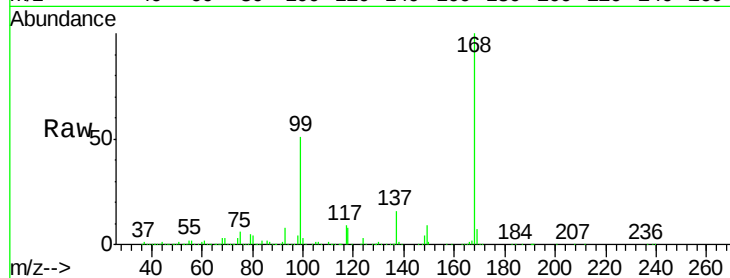




#31
Cyclohexane
Concen: 1.119 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.08 min
Lab File: VX007391.D
Acq: 06 Feb 2019 11:21

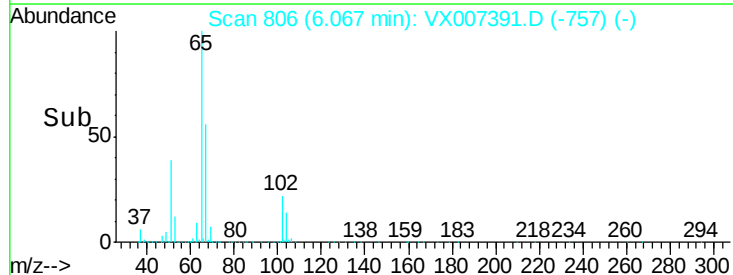
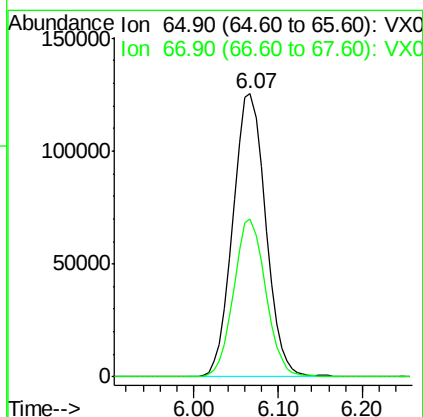
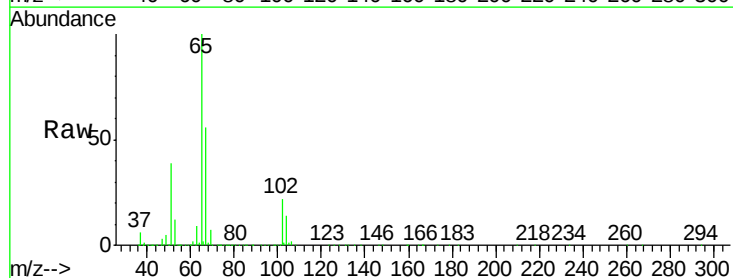
Instrument :
MSVOA_X
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VX0206WBL01

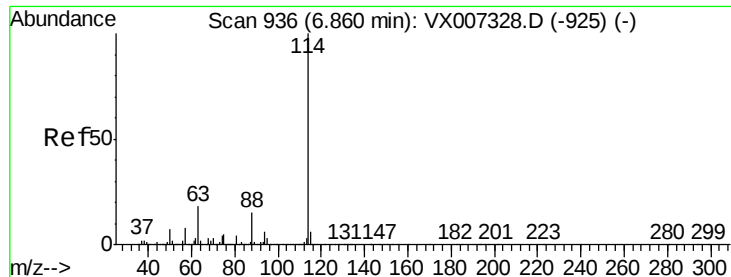
Tot Ion: 56 Resp: 10336
Ion Ratio Lower Upper
56 100
69 168.4 23.0 34.6#
84 131.2 69.8 104.6#



#33
1,2-Dichloroethane-d4
Concen: 49.771 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX007391.D
Acq: 06 Feb 2019 11:21

Tgt Ion: 65 Resp: 330635
Ion Ratio Lower Upper
65 100
67 54.4 0.0 108.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007391.D

Acq: 06 Feb 2019 11:21

Instrument :

MSVOA_X

ClientSampleId :

VX0206WBL01

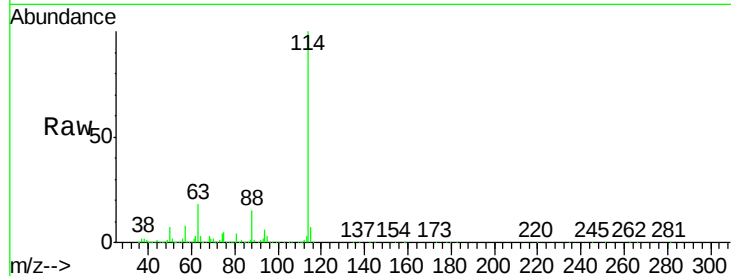
Tot Ion:114 Resp: 935330

Ion Ratio Lower Upper

114 100

63 17.8 0.0 35.6

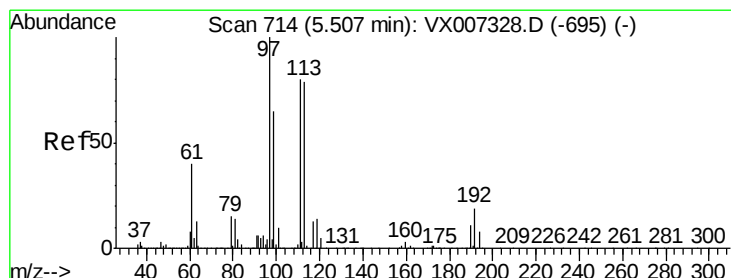
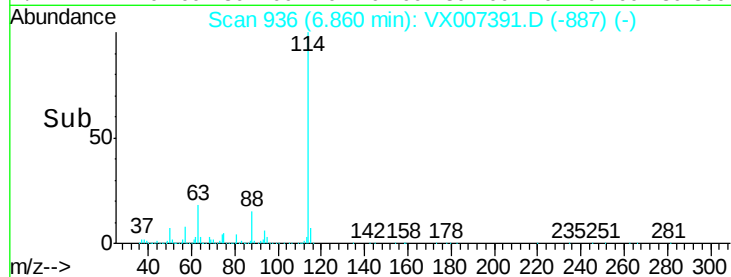
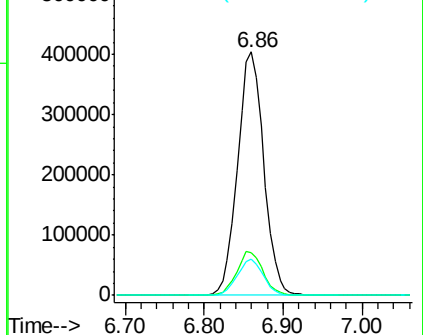
88 14.7 0.0 29.6



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: 49.044 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.01 min

Lab File: VX007391.D

Acq: 06 Feb 2019 11:21

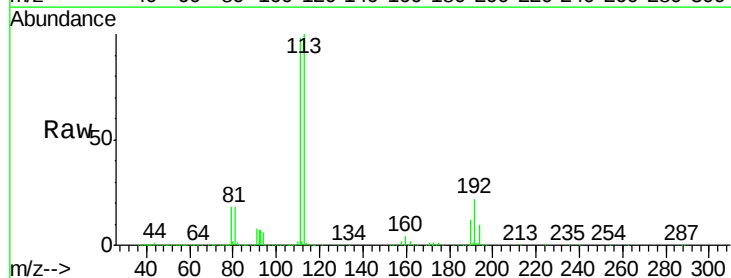
Tgt Ion:113 Resp: 298472

Ion Ratio Lower Upper

113 100

111 101.6 81.8 122.8

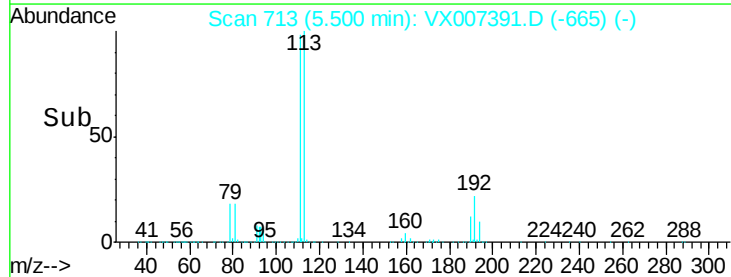
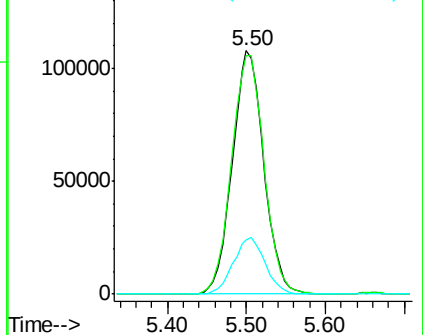
192 23.5 18.5 27.7

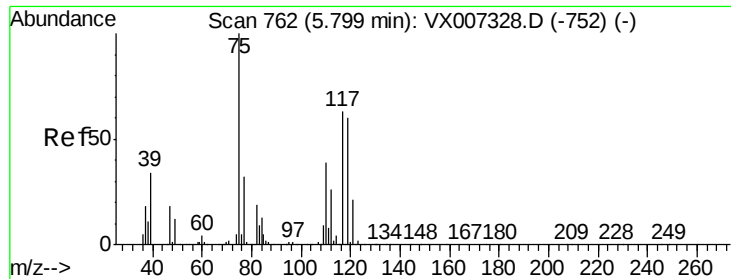


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

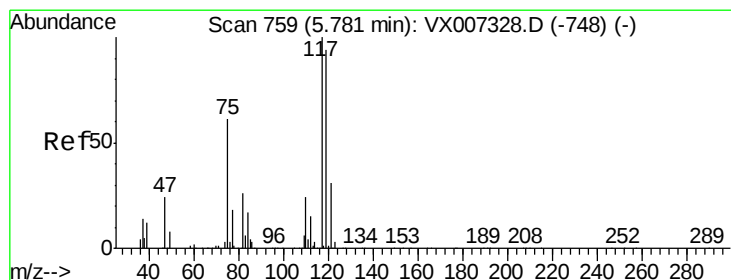
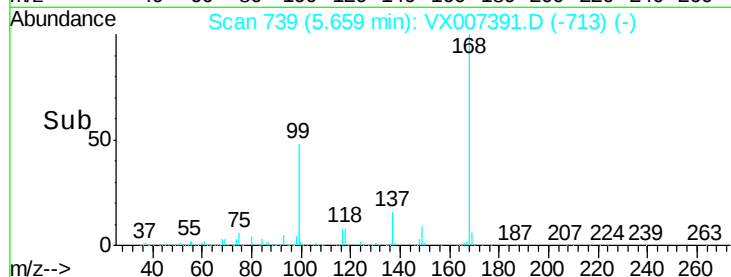
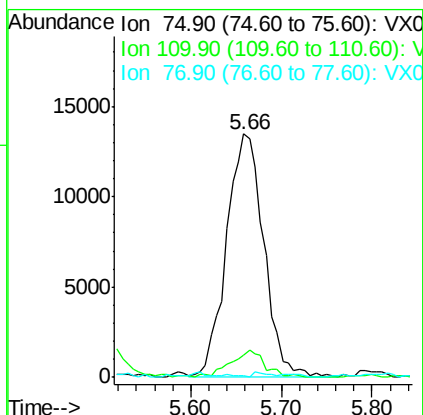
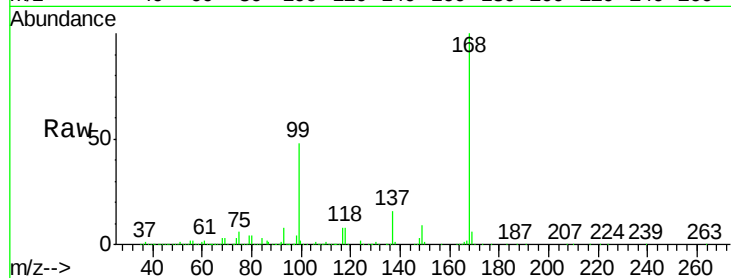




#36
 1,1-Dichloropropene
 Concen: 4.548 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX007391.D
 Acq: 06 Feb 2019 11:21

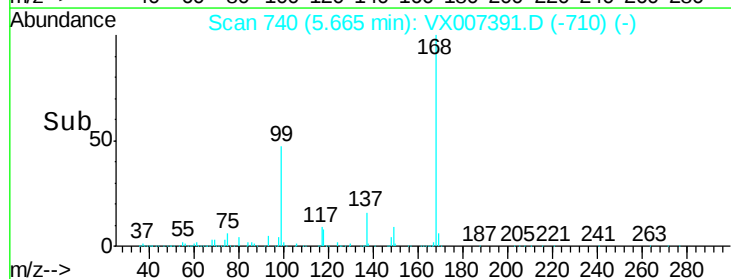
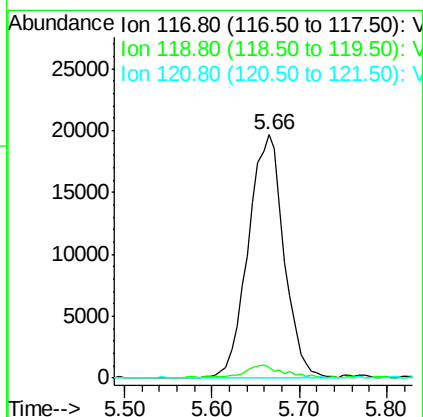
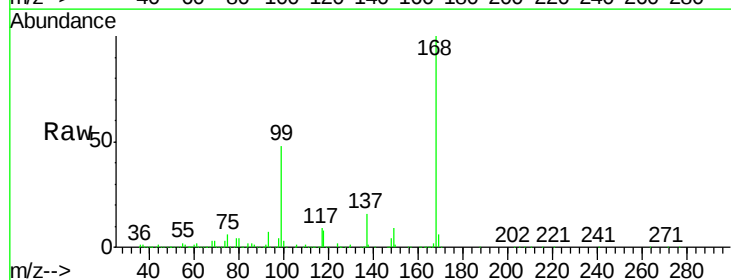
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0206WBL01

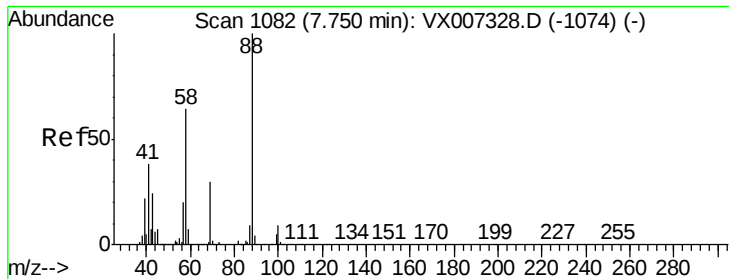
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.6	20.0	59.9#
77	0.9	24.7	37.1#



#38
 Carbon Tetrachloride
 Concen: 6.854 ug/l
 RT: 5.66 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX007391.D
 Acq: 06 Feb 2019 11:21

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.4	75.3	112.9#
121	0.0	25.0	37.4#





#49

1,4-Dioxane

Concen: 9.126 ug/l

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX007391.D

Acq: 06 Feb 2019 11:21

Instrument :

MSVOA_X

ClientSampleId :

VX0206WBL01

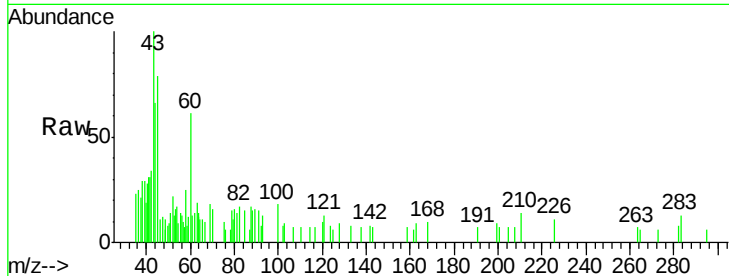
Tot Ion: 88 Resp: 337

Ion Ratio Lower Upper

88 100

43 0.0 24.2 36.4#

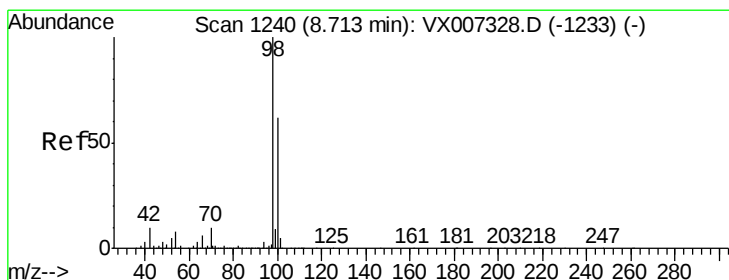
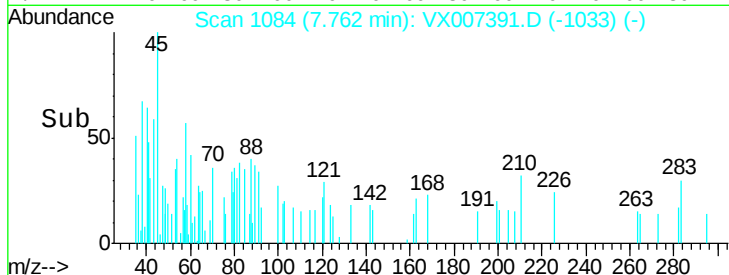
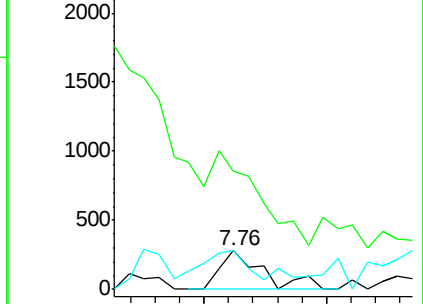
58 82.2 53.0 79.4#



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: 47.979 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007391.D

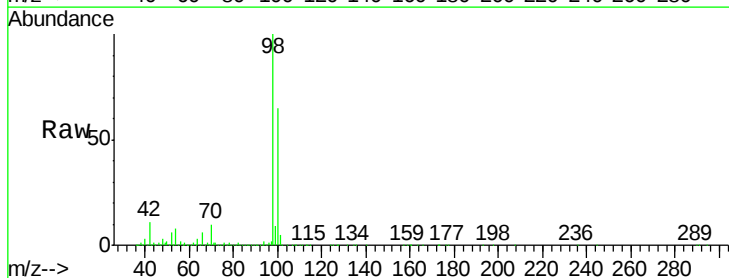
Acq: 06 Feb 2019 11:21

Tgt Ion: 98 Resp: 1083357

Ion Ratio Lower Upper

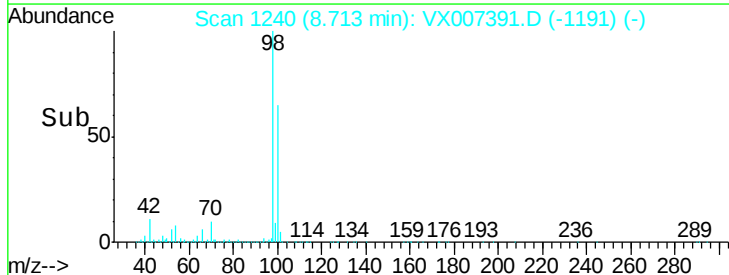
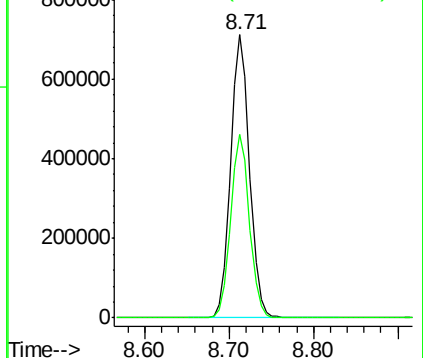
98 100

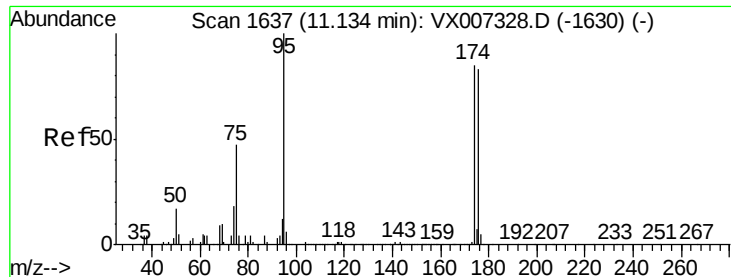
100 64.5 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 43.413 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007391.D

Acq: 06 Feb 2019 11:21

Instrument :

MSVOA_X

ClientSampleId :

VX0206WBL01

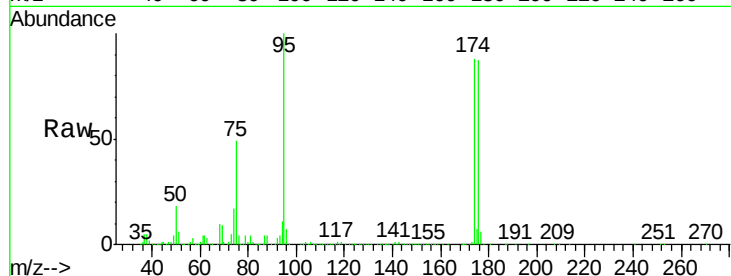
Tot Ion: 95 Resp: 357893

Ion Ratio Lower Upper

95 100

174 96.2 0.0 189.2

176 93.4 0.0 186.2



Abundance Ion 94.90 (94.60 to 95.60): VX007328.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX007328.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX007328.D (-1630) (-)

11.13

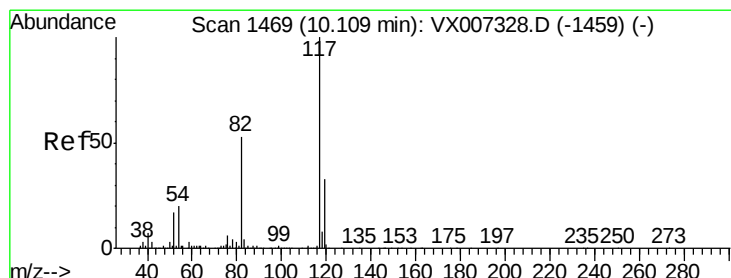
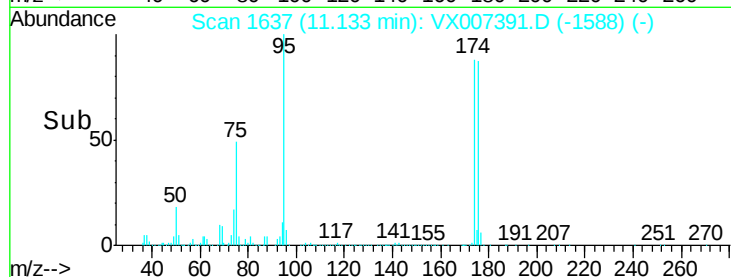
300000

200000

100000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX007391.D

Acq: 06 Feb 2019 11:21

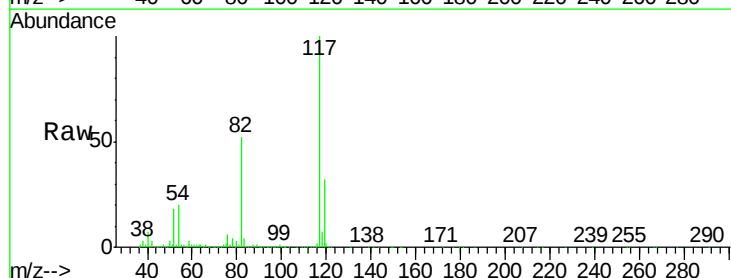
Tgt Ion: 117 Resp: 833564

Ion Ratio Lower Upper

117 100

82 52.4 42.1 63.1

119 32.1 26.5 39.7



Abundance Ion 116.90 (116.60 to 117.60): VX007328.D (-1459) (-)

Ion 82.00 (81.70 to 82.70): VX007328.D (-1459) (-)

Ion 118.90 (118.60 to 119.60): VX007328.D (-1459) (-)

10.11

800000

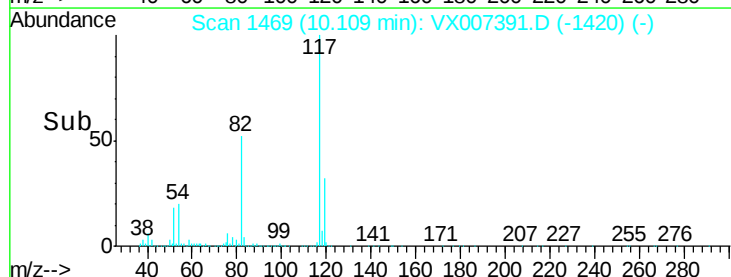
600000

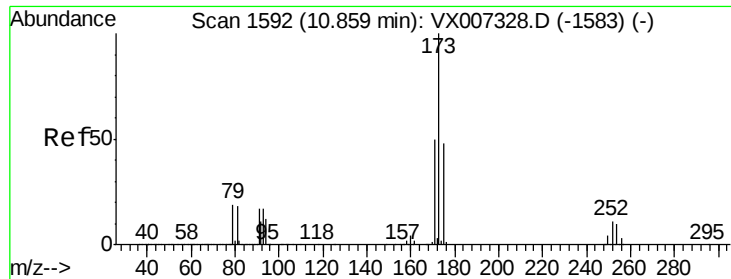
400000

200000

0

Time-->





#71

Bromoform

Concen: 4.046 ug/l

RT: 11.07 min Scan# 1627

Delta R.T. 0.21 min

Lab File: VX007391.D

Acq: 06 Feb 2019 11:21

Instrument :

MSVOA_X

ClientSampleId :

VX0206WBL01

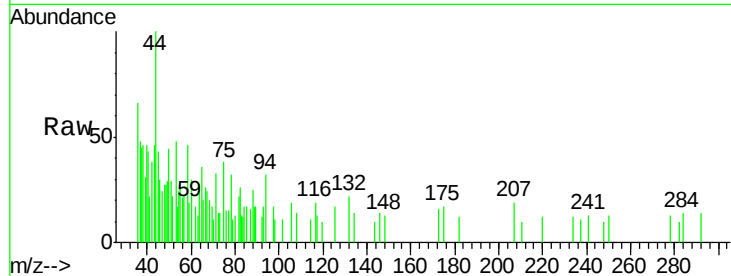
Tot Ion:173 Resp: 99

Ion Ratio Lower Upper

173 100

175 0.0 24.2 72.6#

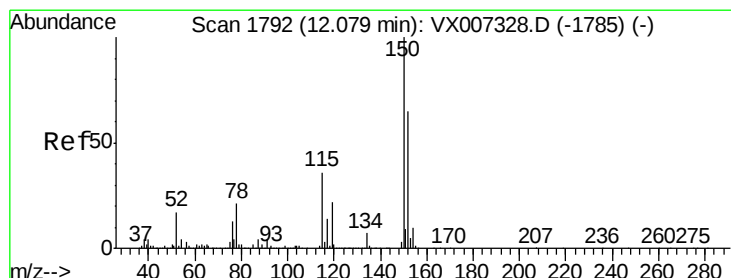
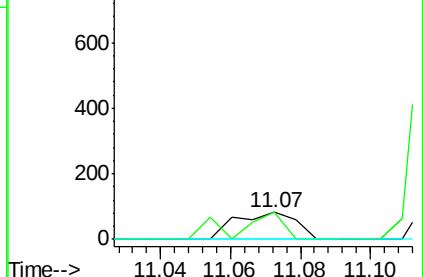
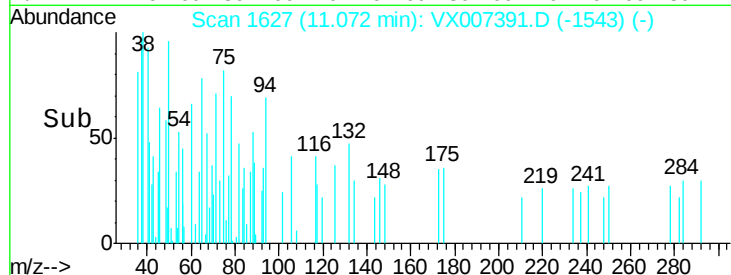
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX007391.D

Acq: 06 Feb 2019 11:21

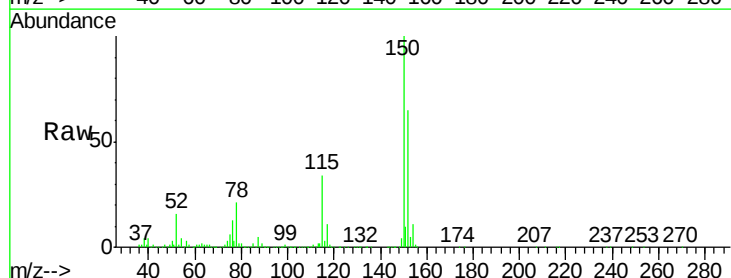
Tgt Ion:152 Resp: 366099

Ion Ratio Lower Upper

152 100

115 54.4 38.0 114.0

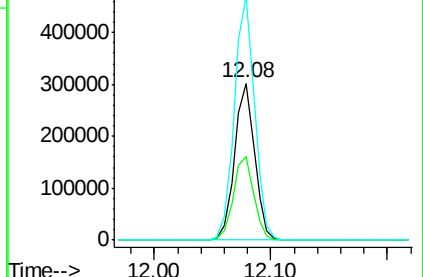
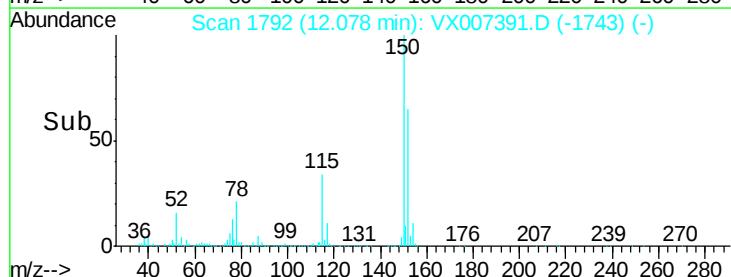
150 156.1 0.0 346.4

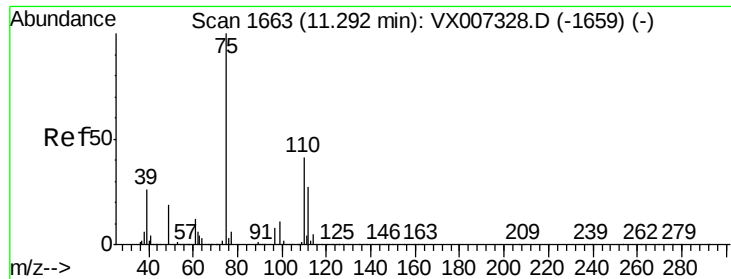


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

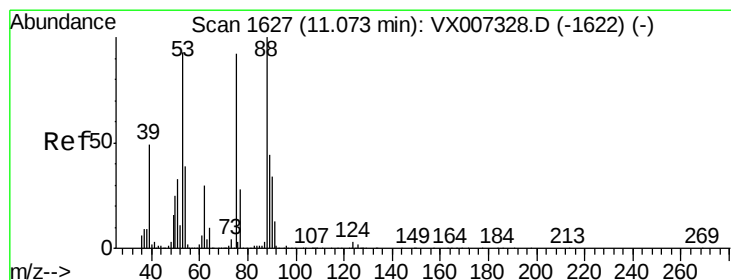
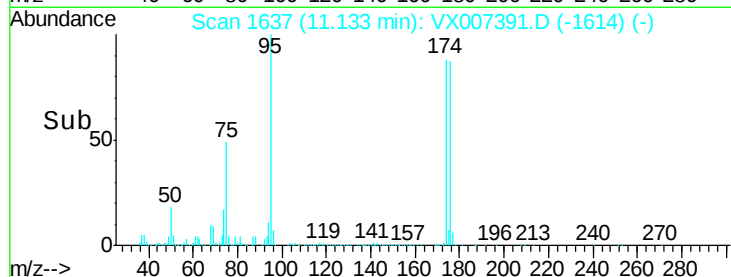
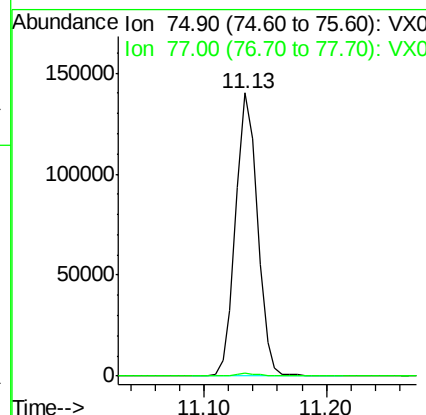
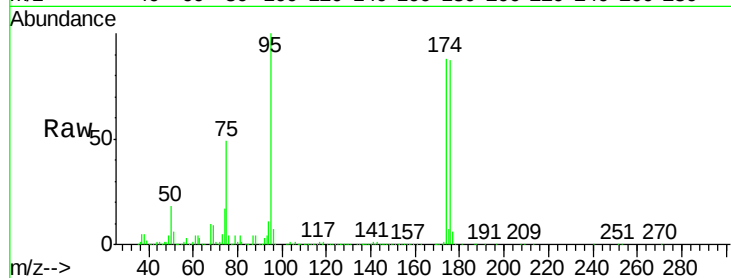




#76
 1,2,3-Trichloropropane
 Concen: 24.289 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX007391.D
 Acq: 06 Feb 2019 11:21

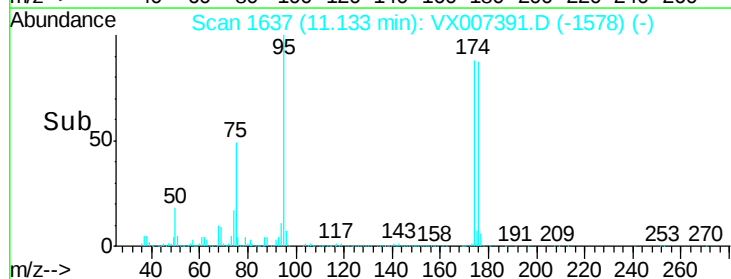
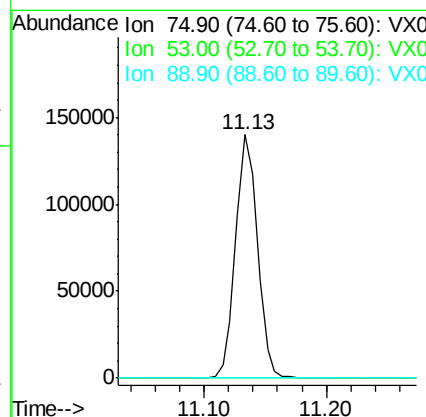
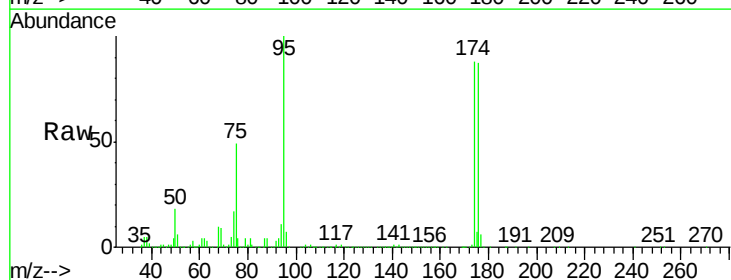
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0206WBL01

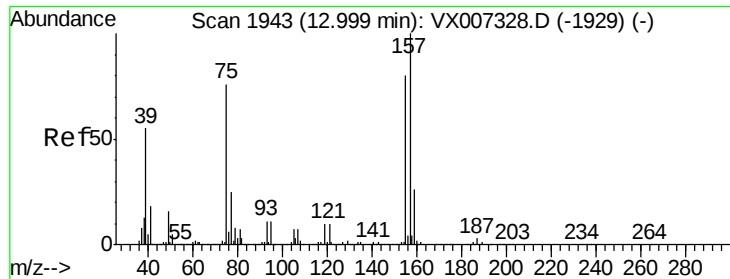
Tot Ion: 75 Resp: 172965
 Ion Ratio Lower Upper
 75 100
 77 1.3 23.0 69.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 72.955 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX007391.D
 Acq: 06 Feb 2019 11:21

Tgt Ion: 75 Resp: 172965
 Ion Ratio Lower Upper
 75 100
 53 0.2 81.0 121.6#
 89 0.1 41.4 62.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.228 ug/l

RT: 13.01 min Scan# 1944

Delta R.T. 0.01 min

Lab File: VX007391.D

Acq: 06 Feb 2019 11:21

Instrument :

MSVOA_X

ClientSampleId :

VX0206WBL01

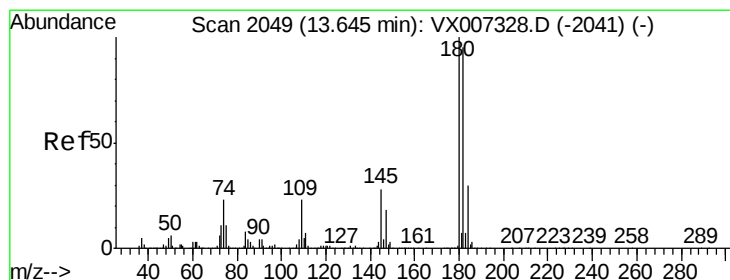
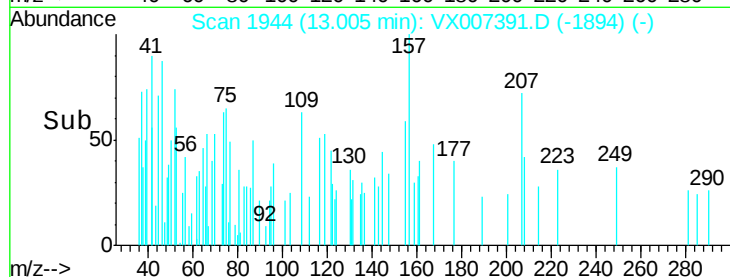
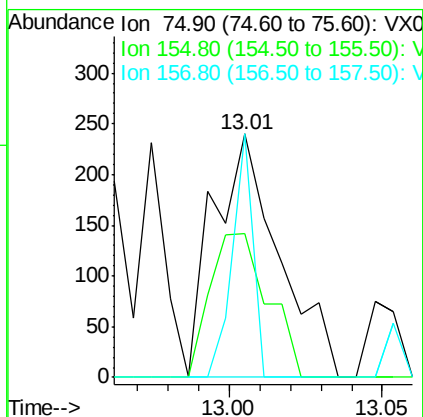
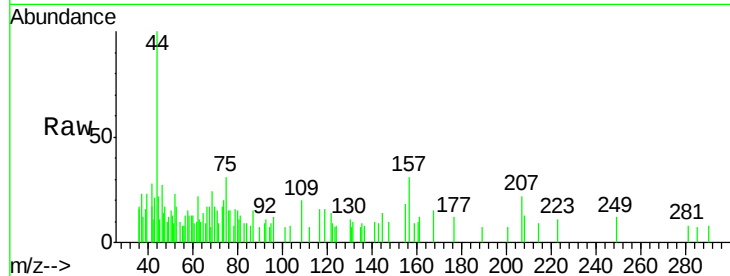
Tot Ion: 75 Resp: 359

Ion Ratio Lower Upper

75 100

155 52.1 49.6 149.0

157 30.4 65.1 195.3#



#93

1,2,4-Trichlorobenzene

Concen: 0.268 ug/l

RT: 13.65 min Scan# 2049

Delta R.T. -0.00 min

Lab File: VX007391.D

Acq: 06 Feb 2019 11:21

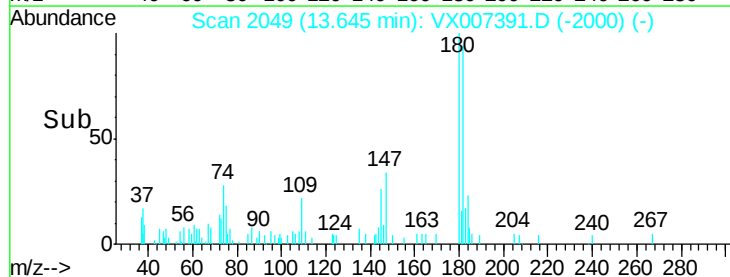
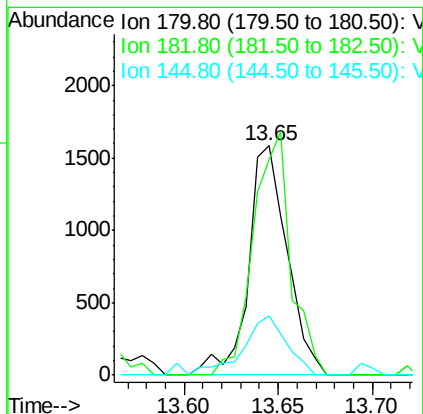
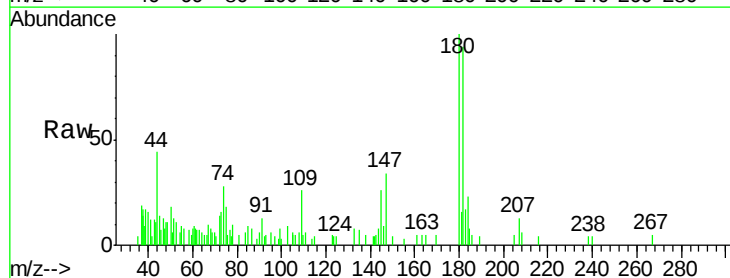
Tgt Ion: 180 Resp: 2260

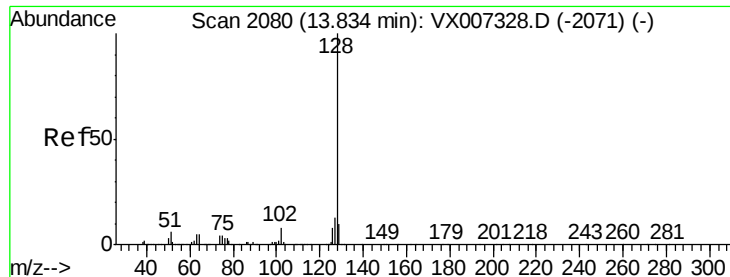
Ion Ratio Lower Upper

180 100

182 102.3 47.8 143.3

145 29.2 14.1 42.2





#95

Naphthalene

Concen: 0.267 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX007391.D

Acq: 06 Feb 2019 11:21

Instrument :

MSVOA_X

ClientSampleId :

VX0206WBL01

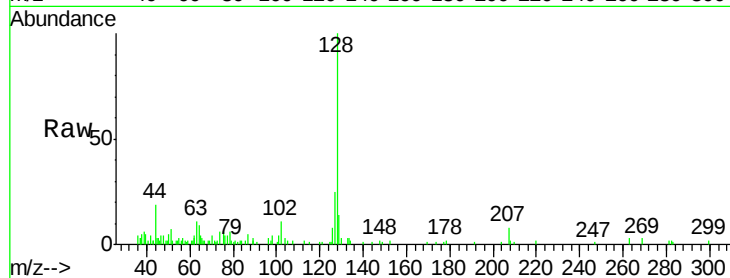
Tot Ion:128 Resp: 6582

Ion Ratio Lower Upper

128 100

127 21.4 10.5 15.7#

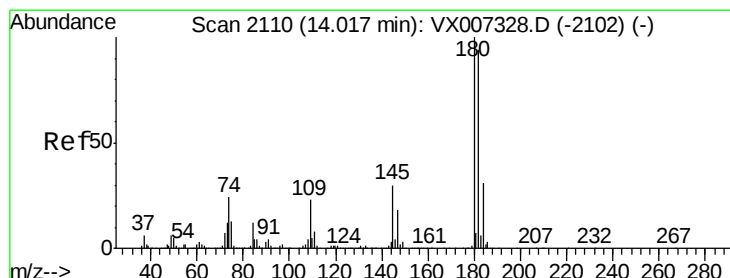
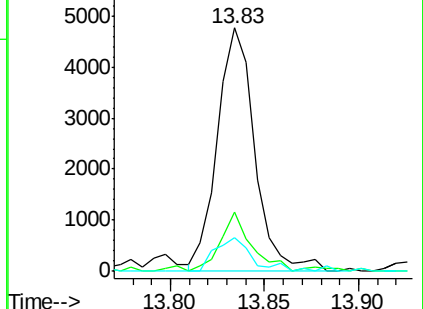
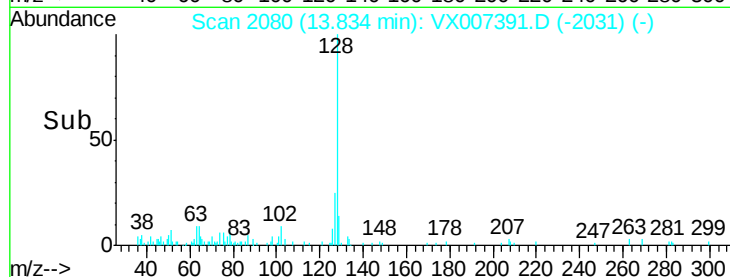
129 13.6 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 0.267 ug/l

RT: 14.02 min Scan# 2111

Delta R.T. 0.01 min

Lab File: VX007391.D

Acq: 06 Feb 2019 11:21

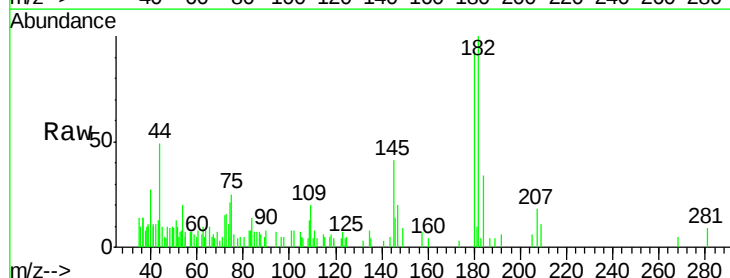
Tgt Ion:180 Resp: 2273

Ion Ratio Lower Upper

180 100

182 91.1 47.5 142.6

145 44.8 14.9 44.5#



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

