

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031919\
 Data File : VX008188.D
 Acq On : 19 Mar 2019 13:44
 Operator : JC/SP
 Sample : VX0319WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 20 07:08:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X031919W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 20 06:51:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	361204	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	579972	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	485633	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	194223	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	246398	45.29	ug/l	0.00
Spiked Amount			Recovery	=	90.58%	
35) Dibromofluoromethane	5.50	113	182452	46.99	ug/l	0.00
Spiked Amount			Recovery	=	93.98%	
50) Toluene-d8	8.71	98	719671	48.89	ug/l	0.00
Spiked Amount			Recovery	=	97.78%	
62) 4-Bromofluorobenzene	11.13	95	228290	45.04	ug/l	0.00
Spiked Amount			Recovery	=	90.08%	

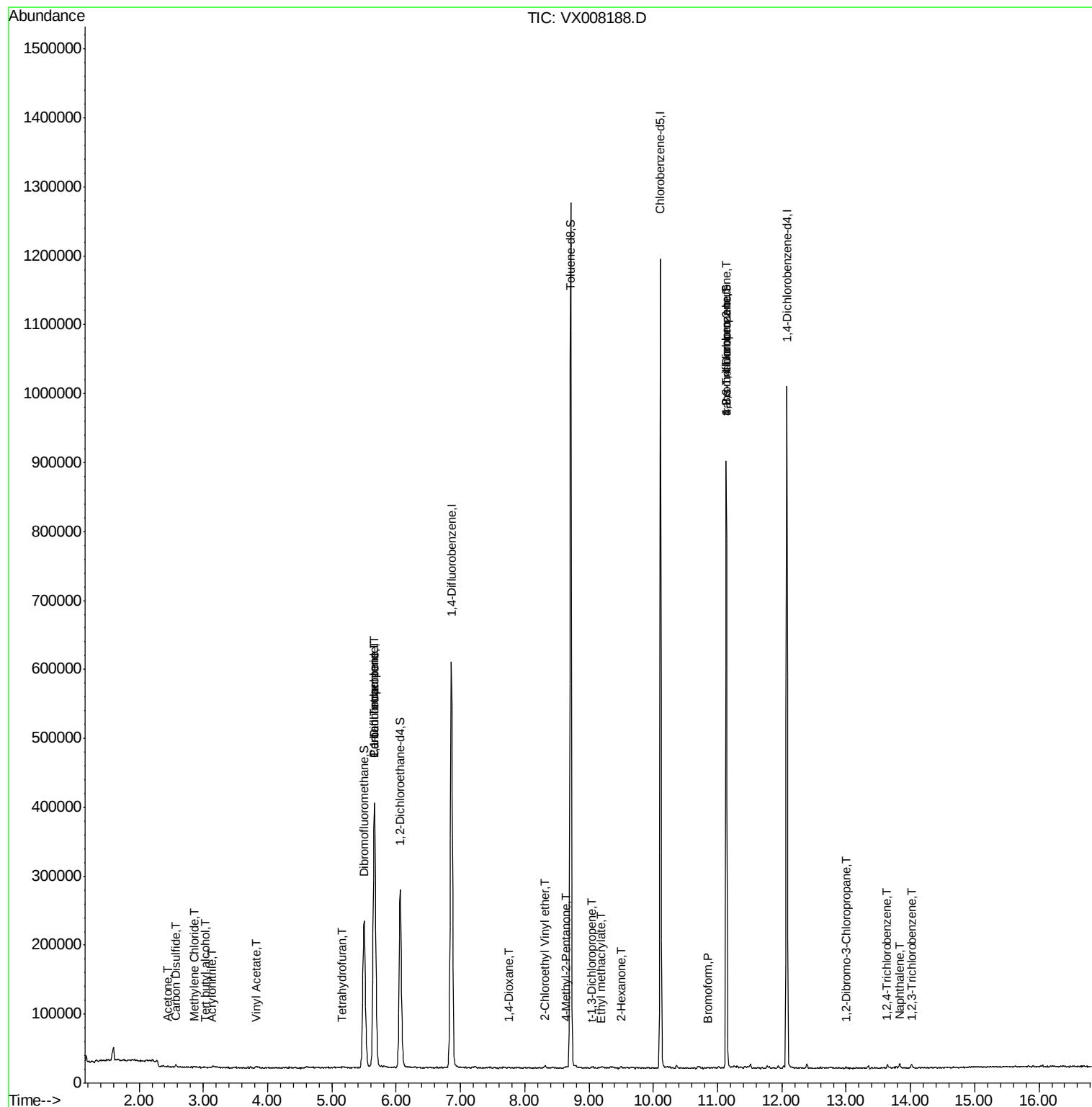
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.04	59	670	0.575	ug/l #	1
13) Acrolein	2.29	56	1071	Below Cal	#	70
15) Acrylonitrile	3.14	53	1958	0.636	ug/l #	92
16) Acetone	2.45	43	1574	0.510	ug/l #	87
17) Carbon Disulfide	2.57	76	4476	0.984	ug/l #	95
20) Methylene Chloride	2.87	84	1043	0.203	ug/l #	84
23) Vinyl Acetate	3.82	43	3977	0.248	ug/l	95
29) Tetrahydrofuran	5.15	42	867	0.305	ug/l #	41
36) 1,1-Dichloropropene	5.66	75	29463	4.363	ug/l #	49
38) Carbon Tetrachloride	5.66	117	35832	5.956	ug/l #	16
49) 1,4-Dioxane	7.76	88	341	2.841	ug/l #	1
51) 4-Methyl-2-Pentanone	8.64	43	1857	0.225	ug/l	99
53) t-1,3-Dichloropropene	9.05	75	1060	1.550	ug/l #	78
56) Ethyl methacrylate	9.18	69	436	0.577	ug/l	91
58) 2-Chloroethyl Vinyl ether	8.32	63	2450	0.624	ug/l	100
59) 2-Hexanone	9.49	43	2130	0.334	ug/l	91
71) Bromoform	10.86	173	314	2.286	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	118212	21.640	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	118212	55.017	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	13.00	75	324	0.235	ug/l #	66
93) 1,2,4-Trichlorobenzene	13.65	180	1234	0.248	ug/l	92
95) Naphthalene	13.83	128	4324	0.276	ug/l	98
96) 1,2,3-Trichlorobenzene	14.02	180	1242	0.254	ug/l	95

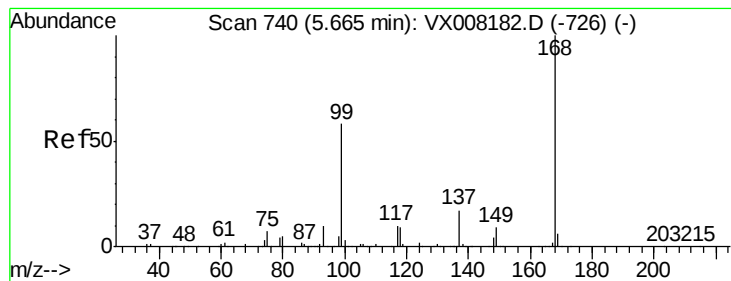
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X031919W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 20 06:51:58 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX008188.D

Acq: 19 Mar 2019 13:44

Instrument :

MSVOA_X

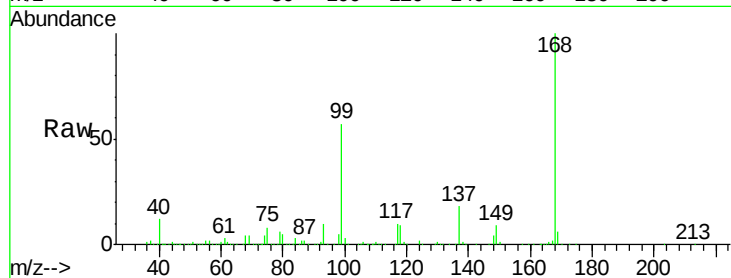
ClientSampled :

Tot Ion:168 Resp: 361204

Ion Ratio Lower Upper

168 100

99 57.1 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

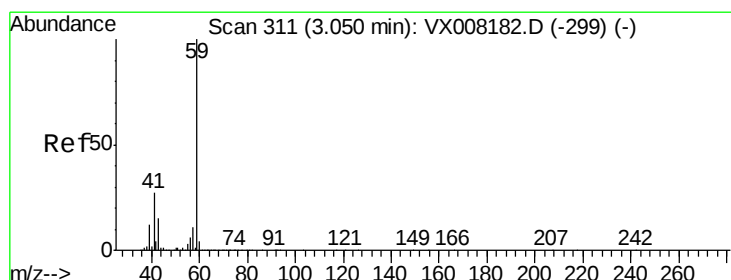
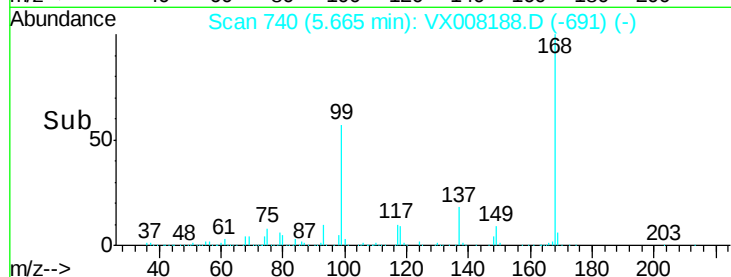
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 0.575 ug/l

RT: 3.04 min Scan# 309

Delta R.T. -0.01 min

Lab File: VX008188.D

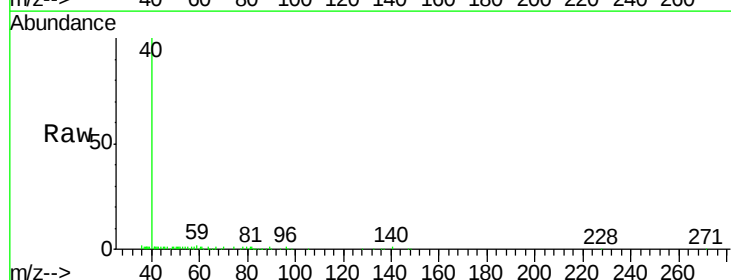
Acq: 19 Mar 2019 13:44

Tgt Ion: 59 Resp: 670

Ion Ratio Lower Upper

59 100

57 59.9 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.04

400

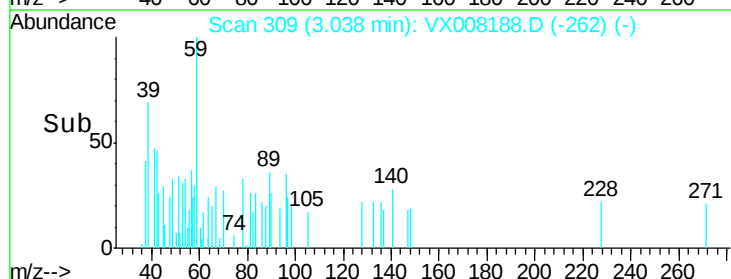
300

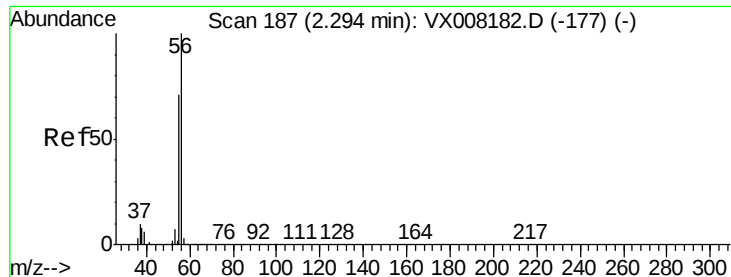
200

100

0

Time--> 3.00 3.05 3.10





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX008188.D

Acq: 19 Mar 2019 13:44

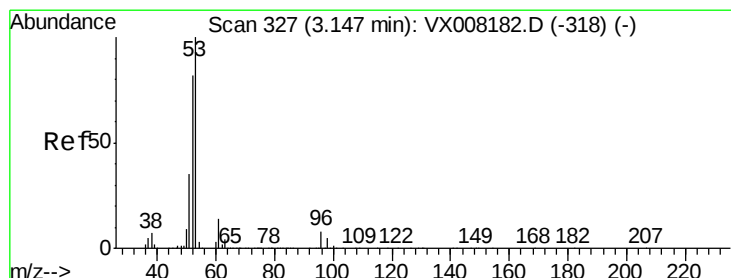
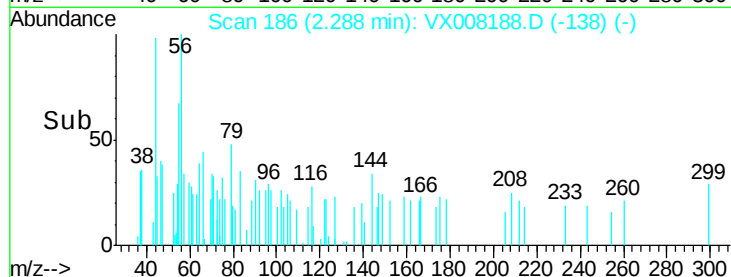
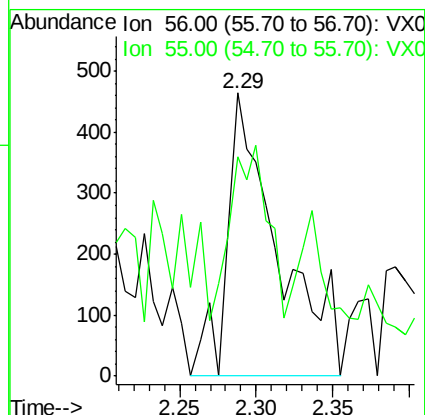
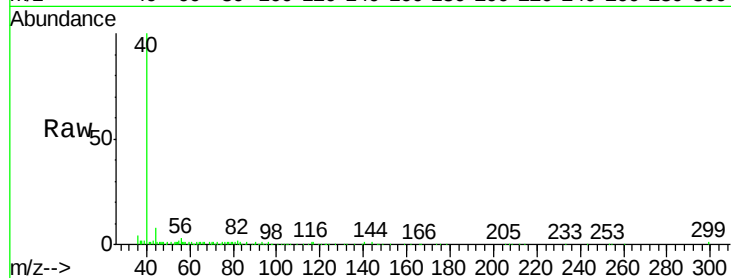
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 1071

Ion Ratio Lower Upper

56 100

55 46.8 57.8 86.6#



#15

Acrylonitrile

Concen: 0.636 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.01 min

Lab File: VX008188.D

Acq: 19 Mar 2019 13:44

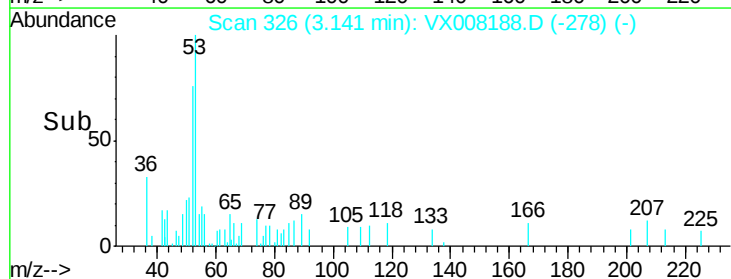
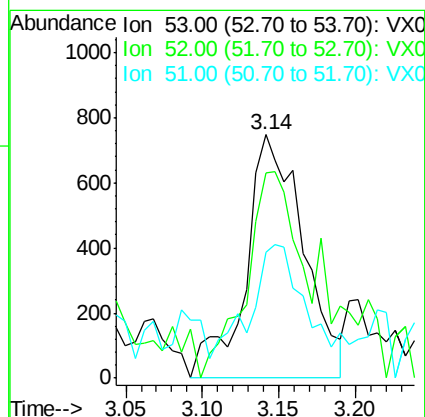
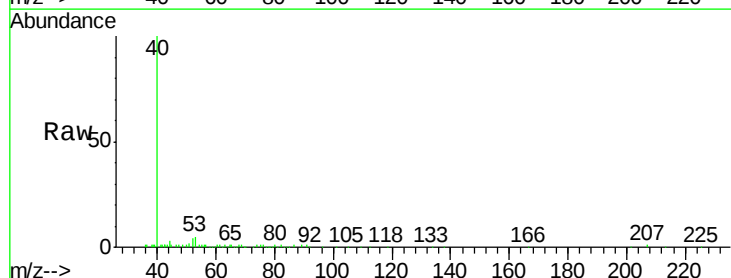
Tgt Ion: 53 Resp: 1958

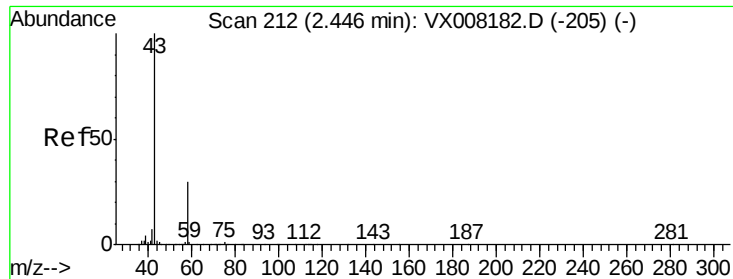
Ion Ratio Lower Upper

53 100

52 76.7 66.0 99.0

51 42.4 28.0 42.0#

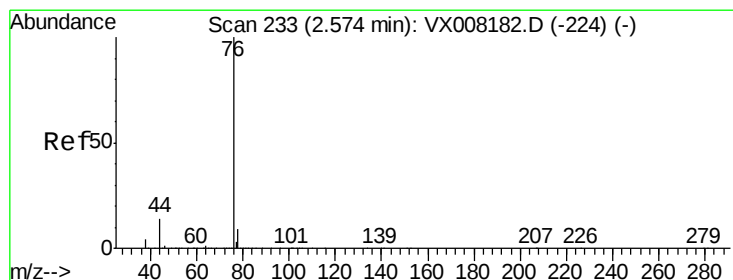
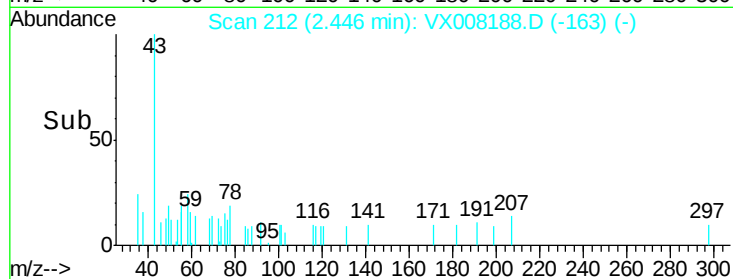
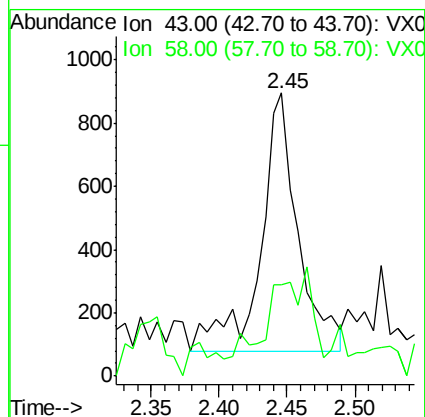
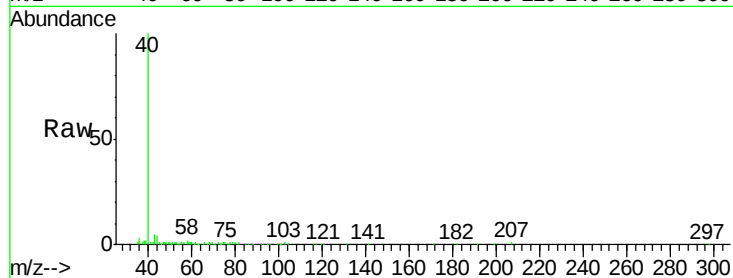




#16
Acetone
Concen: 0.510 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX008188.D
Acq: 19 Mar 2019 13:44

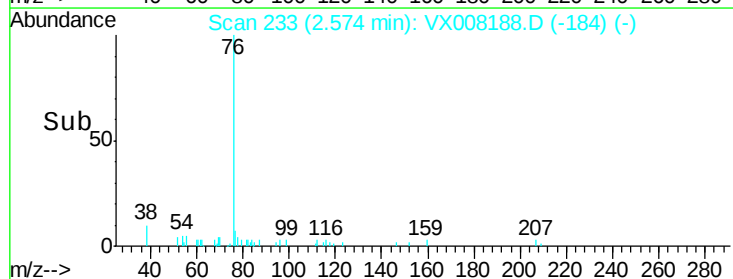
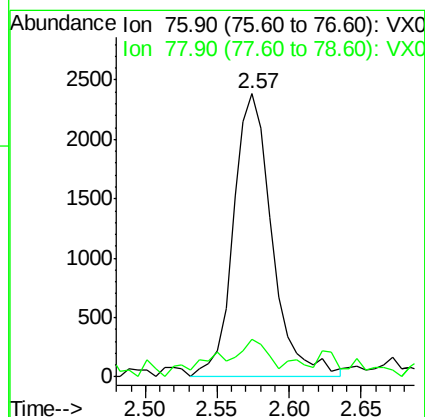
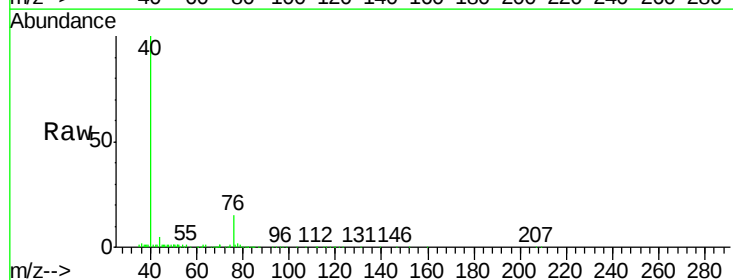
Instrument :
MSVOA_X
ClientSampled :

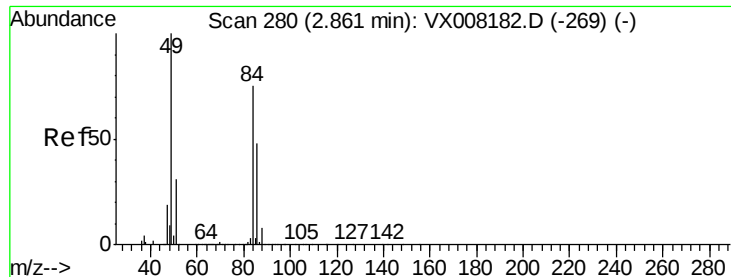
Tot Ion: 43 Resp: 1574
Ion Ratio Lower Upper
43 100
58 24.4 25.5 38.3#



#17
Carbon Disulfide
Concen: 0.984 ug/l
RT: 2.57 min Scan# 233
Delta R.T. 0.00 min
Lab File: VX008188.D
Acq: 19 Mar 2019 13:44

Tgt Ion: 76 Resp: 4476
Ion Ratio Lower Upper
76 100
78 11.0 7.2 10.8#





#20

Methylene Chloride

Concen: 0.203 ug/l

RT: 2.87 min Scan# 281

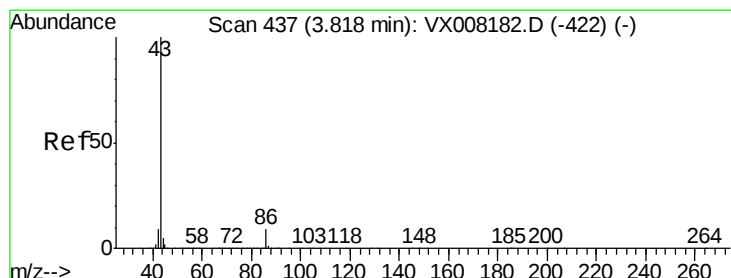
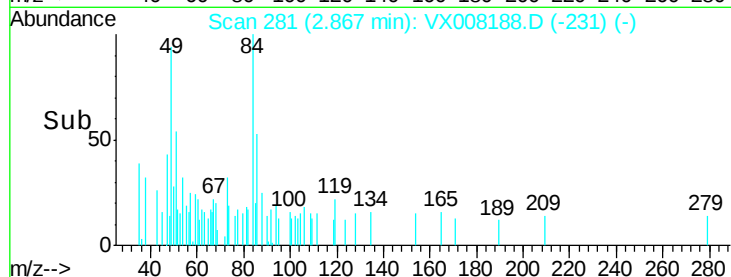
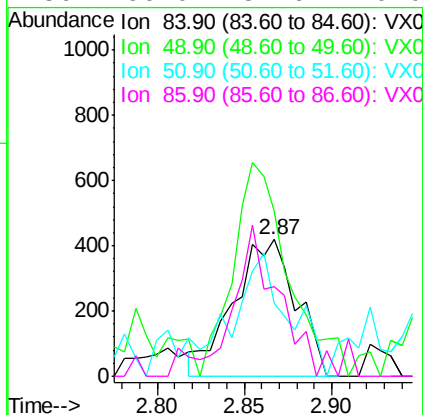
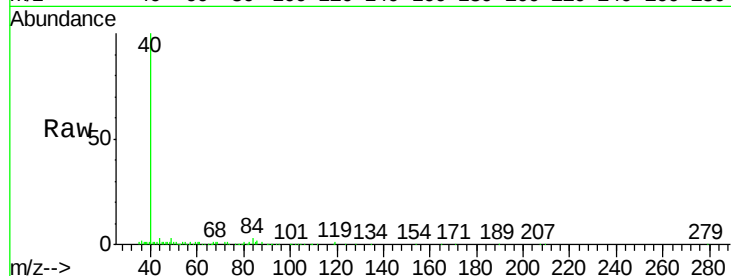
Delta R.T. 0.01 min

Lab File: VX008188.D

Acq: 19 Mar 2019 13:44

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	84	Resp:	1043
Ion	Ratio	Lower	Upper
84	100		
49	94.3	99.3	148.9#
51	45.9	31.3	46.9
86	66.0	52.6	79.0



#23

Vinyl Acetate

Concen: 0.248 ug/l

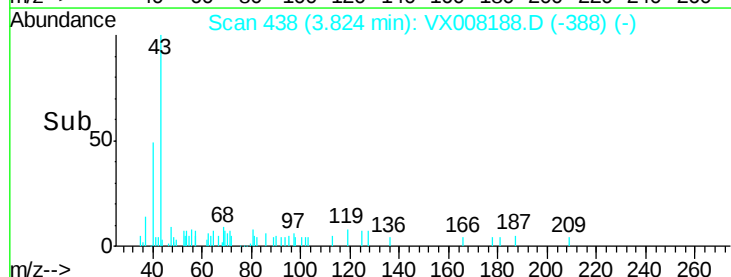
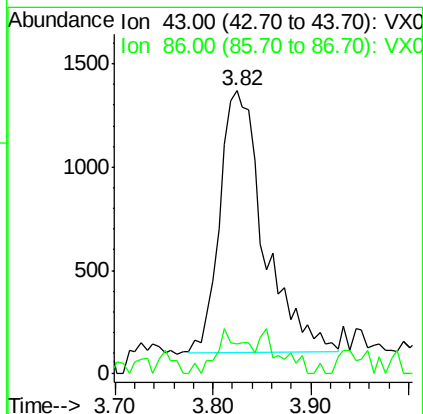
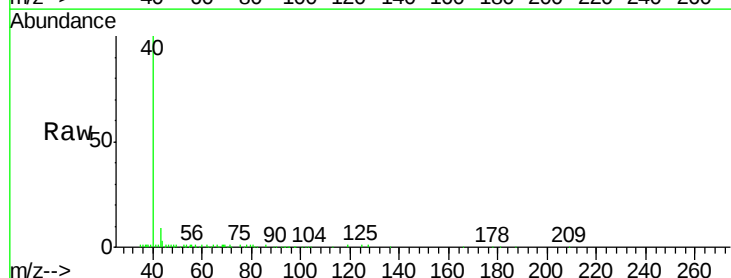
RT: 3.82 min Scan# 438

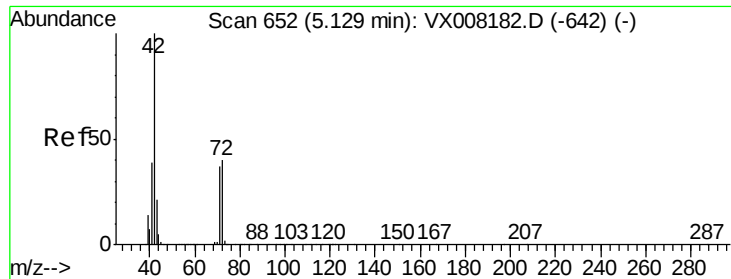
Delta R.T. 0.01 min

Lab File: VX008188.D

Acq: 19 Mar 2019 13:44

Tgt Ion:	43	Resp:	3977
Ion	Ratio	Lower	Upper
43	100		
86	11.6	7.9	11.9

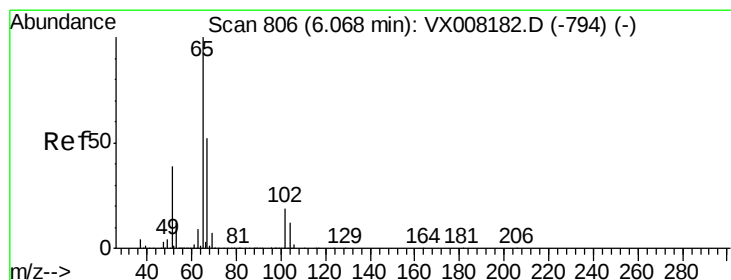
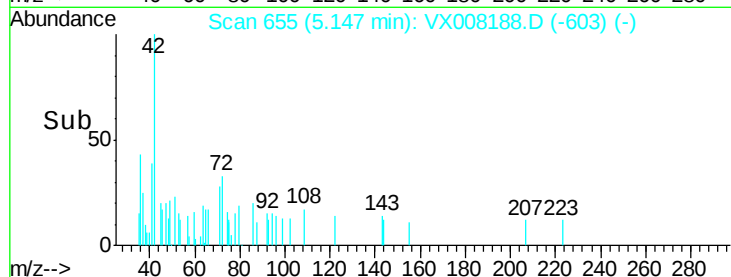
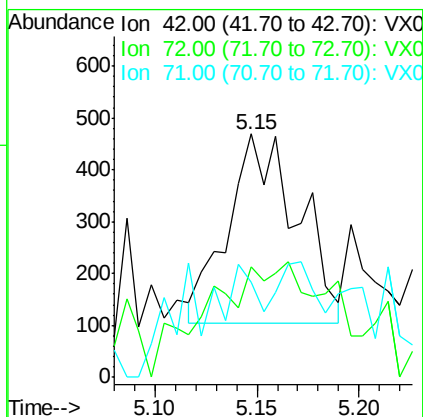
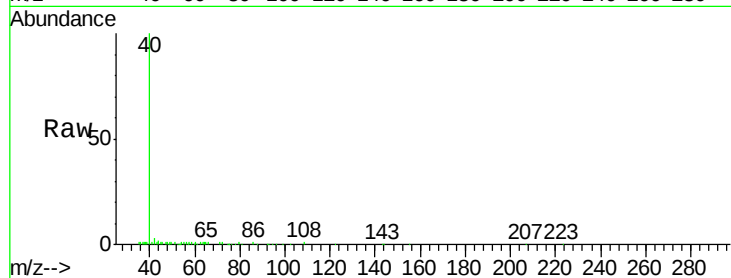




#29
Tetrahydrofuran
Concen: 0.305 ug/l
RT: 5.15 min Scan# 655
Delta R.T. 0.02 min
Lab File: VX008188.D
Acq: 19 Mar 2019 13:44

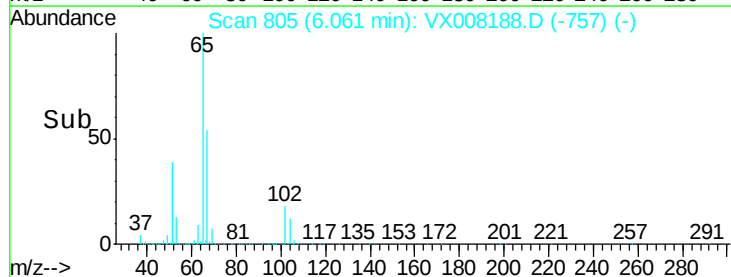
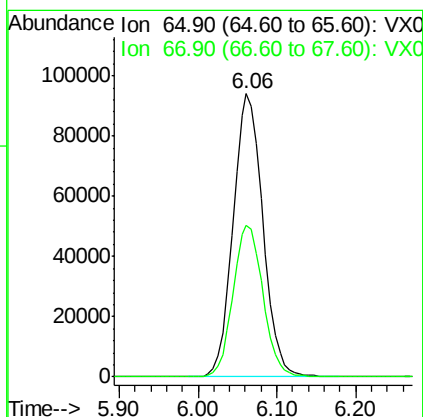
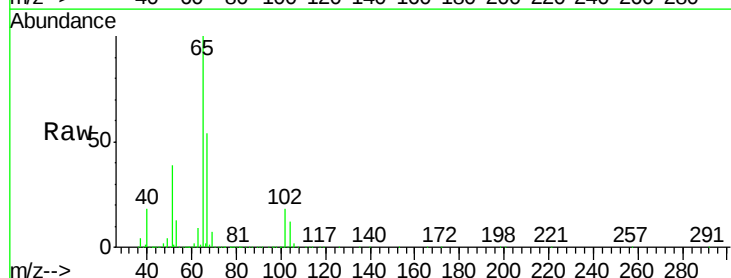
Instrument :
MSVOA_X
ClientSampleId :

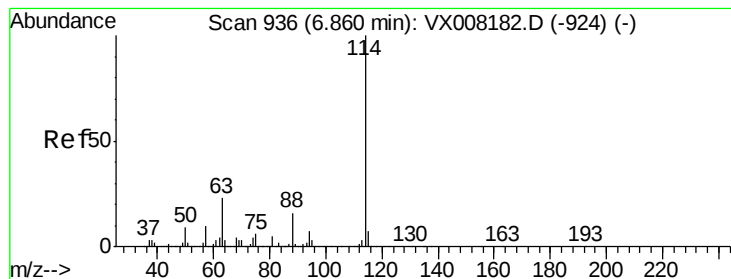
Tot Ion: 42 Resp: 867
Ion Ratio Lower Upper
42 100
72 0.0 33.8 50.6#
71 8.7 31.5 47.3#



#33
1,2-Dichloroethane-d4
Concen: 45.293 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.01 min
Lab File: VX008188.D
Acq: 19 Mar 2019 13:44

Tgt Ion: 65 Resp: 246398
Ion Ratio Lower Upper
65 100
67 54.0 0.0 110.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX008188.D

Acq: 19 Mar 2019 13:44

Instrument :

MSVOA_X

ClientSampleId :

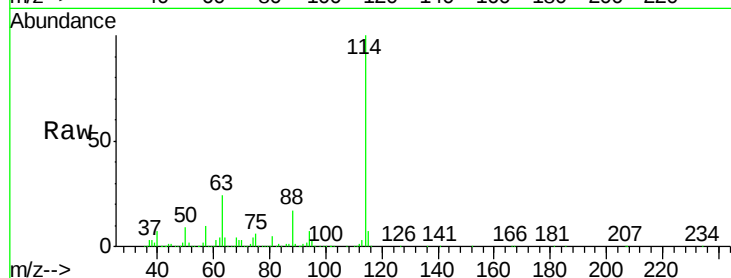
Tot Ion:114 Resp: 579972

Ion Ratio Lower Upper

114 100

63 24.0 0.0 39.8

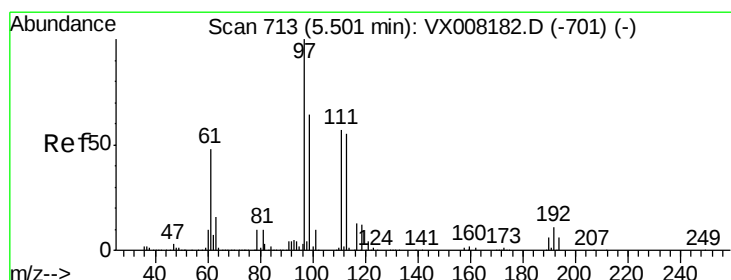
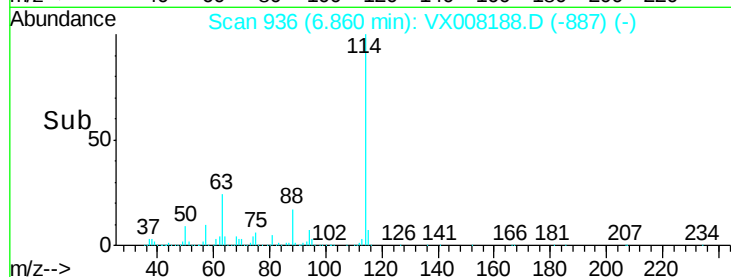
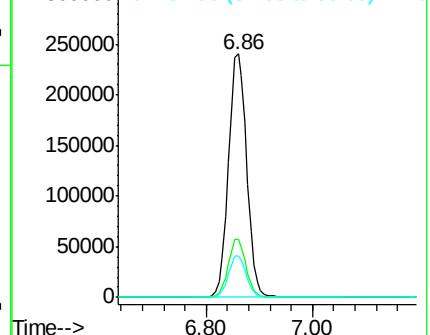
88 16.8 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 46.993 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX008188.D

Acq: 19 Mar 2019 13:44

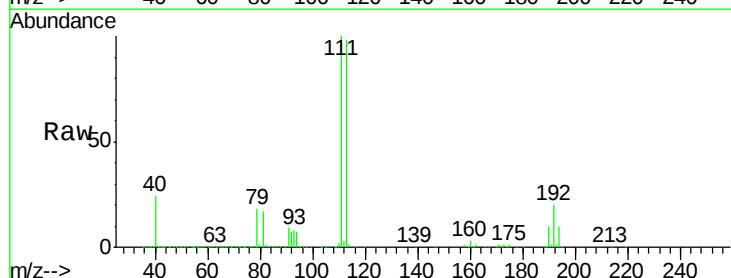
Tgt Ion:113 Resp: 182452

Ion Ratio Lower Upper

113 100

111 103.0 81.4 122.0

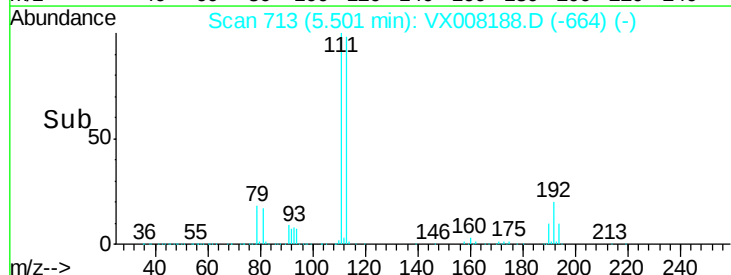
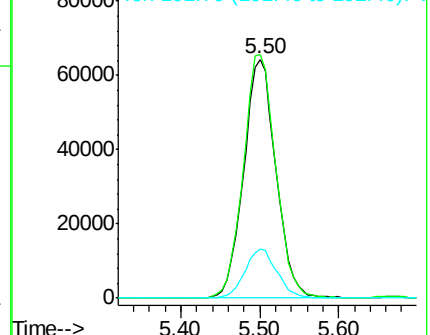
192 20.4 19.4 29.0

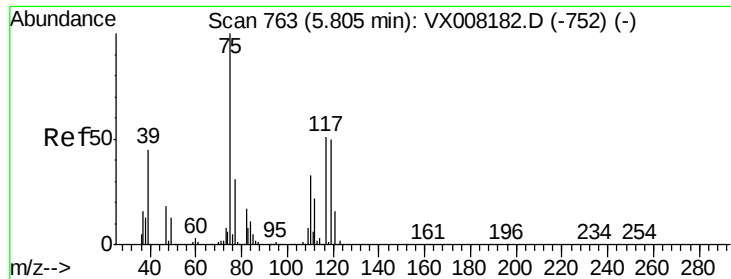


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

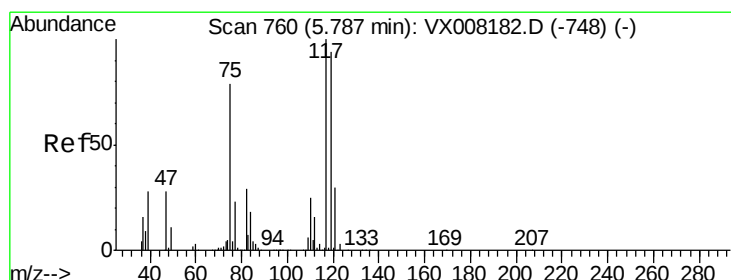
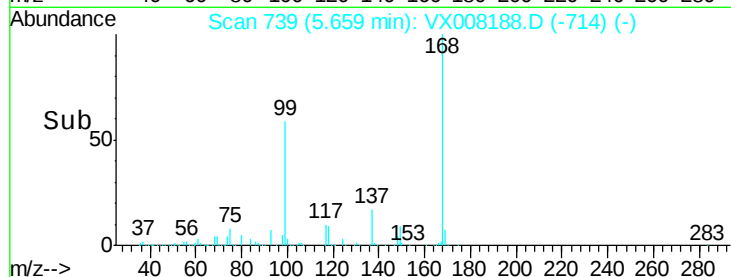
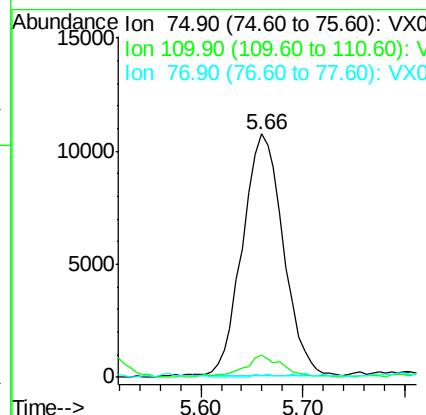
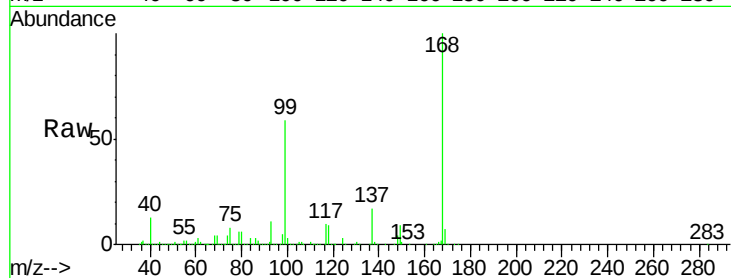




#36
 1,1-Dichloropropene
 Concen: 4.363 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.15 min
 Lab File: VX008188.D
 Acq: 19 Mar 2019 13:44

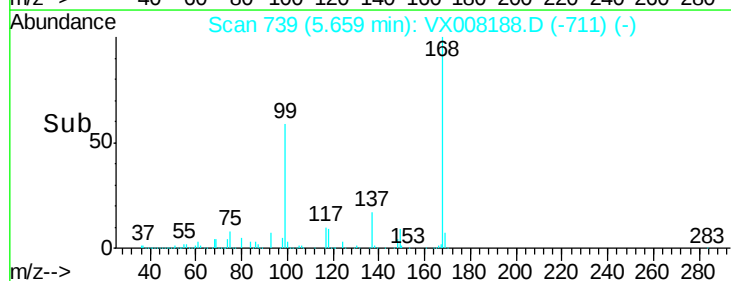
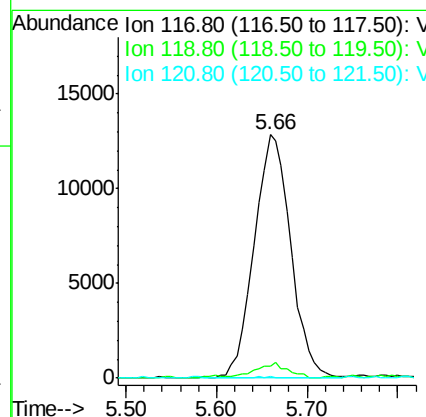
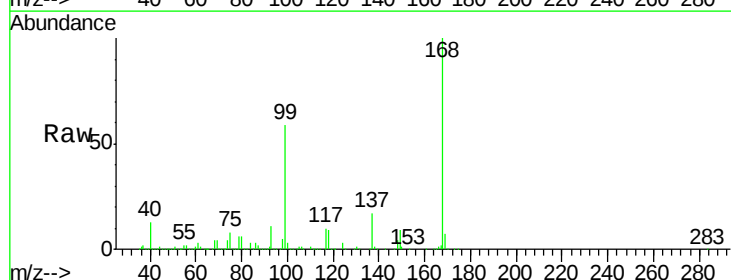
Instrument :
 MSVOA_X
 ClientSampled :

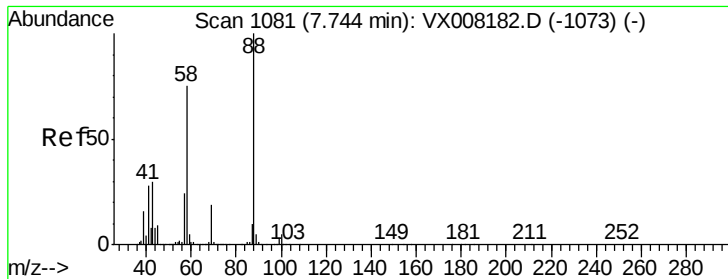
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.0	18.4	55.0#
77	0.7	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.956 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX008188.D
 Acq: 19 Mar 2019 13:44

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.6	76.2	114.2#
121	0.4	24.6	36.8#





#49

1,4-Dioxane

Concen: 2.841 ug/l

RT: 7.76 min Scan# 1084

Delta R.T. 0.02 min

Lab File: VX008188.D

Acq: 19 Mar 2019 13:44

Instrument :
MSVOA_X
ClientSampled :

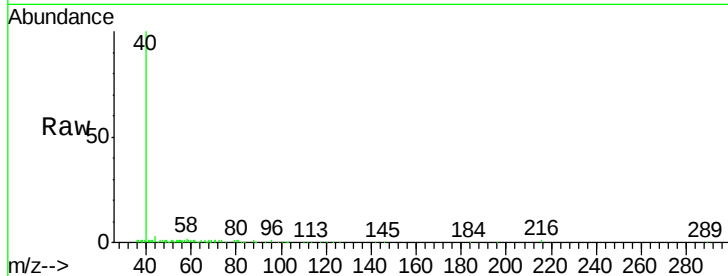
Tot Ion: 88 Resp: 341

Ion Ratio Lower Upper

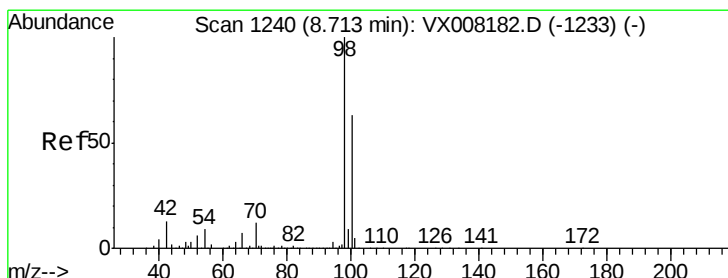
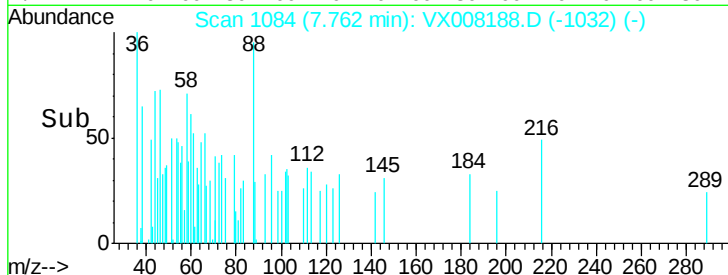
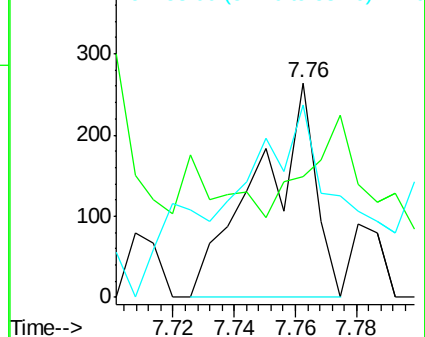
88 100

43 0.0 25.1 37.7#

58 188.6 57.8 86.6#



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: 48.891 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008188.D

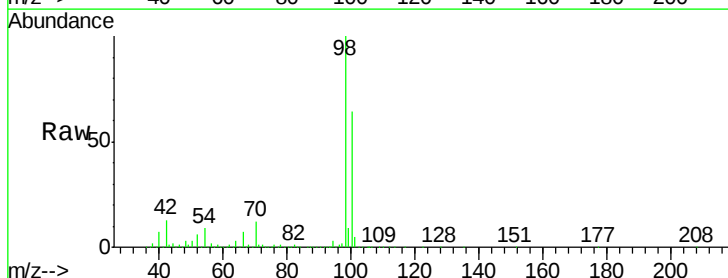
Acq: 19 Mar 2019 13:44

Tgt Ion: 98 Resp: 719671

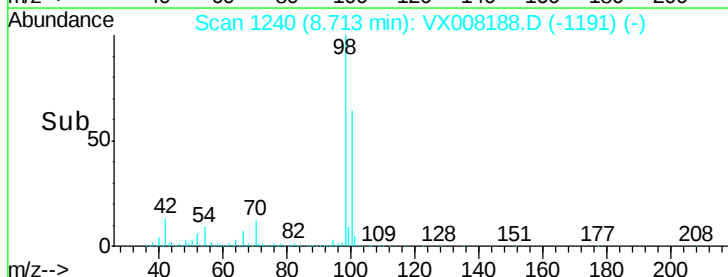
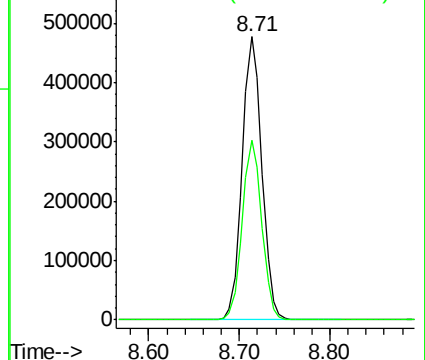
Ion Ratio Lower Upper

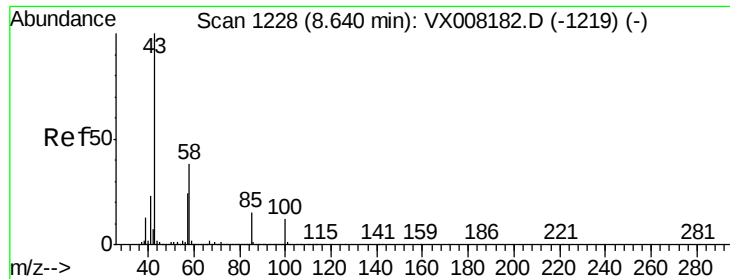
98 100

100 62.8 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 0.225 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. -0.00 min

Lab File: VX008188.D

Acq: 19 Mar 2019 13:44

Instrument :

MSVOA_X

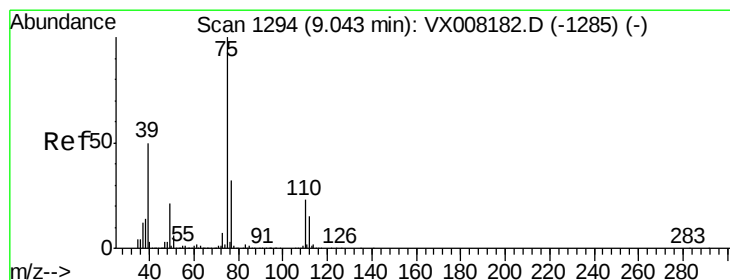
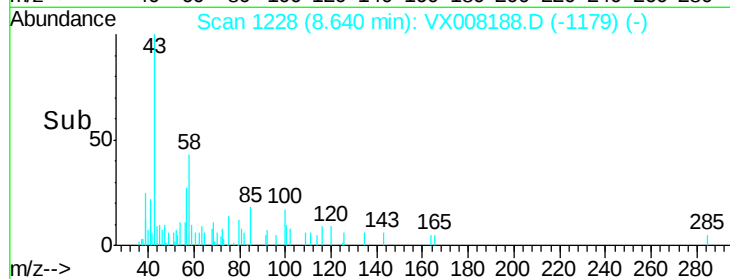
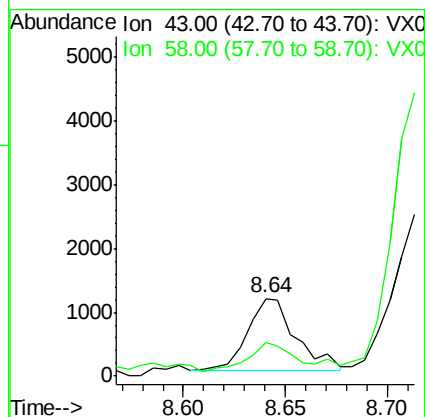
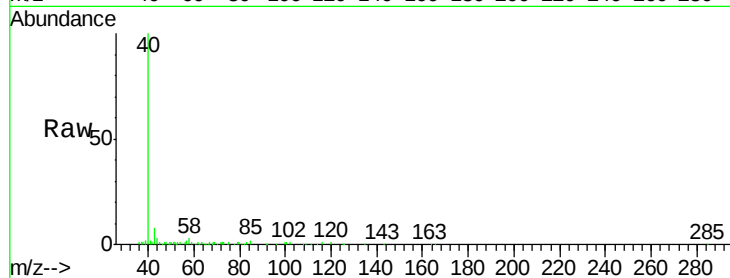
ClientSampleId :

Tot Ion: 43 Resp: 1857

Ion Ratio Lower Upper

43 100

58 38.5 31.3 46.9



#53

t-1,3-Dichloropropene

Concen: 1.550 ug/l

RT: 9.05 min Scan# 1295

Delta R.T. 0.01 min

Lab File: VX008188.D

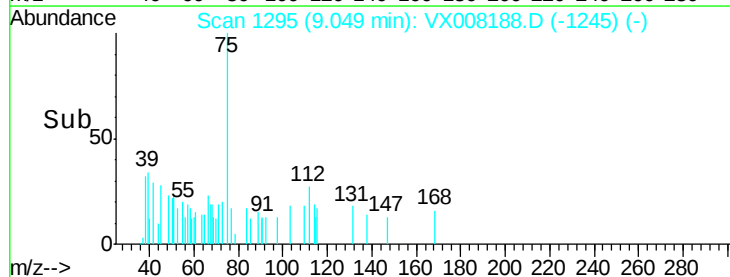
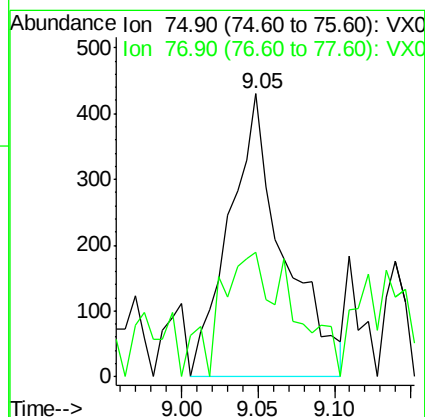
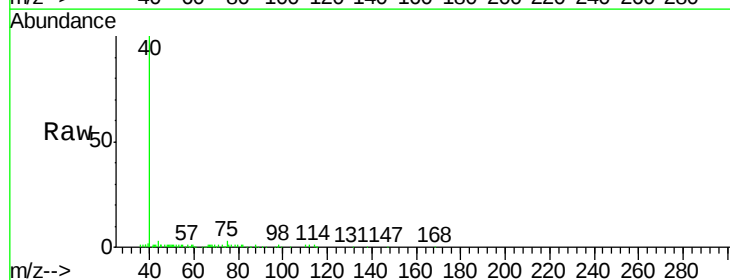
Acq: 19 Mar 2019 13:44

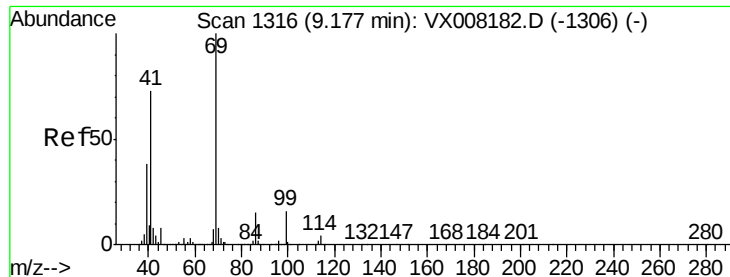
Tgt Ion: 75 Resp: 1060

Ion Ratio Lower Upper

75 100

77 44.2 25.4 38.0#





#56

Ethyl methacrylate

Concen: 0.577 ug/l

RT: 9.18 min Scan# 1317

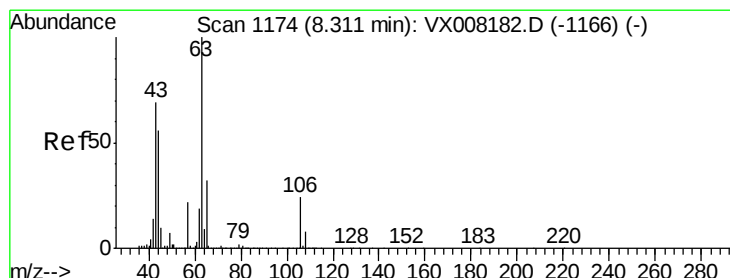
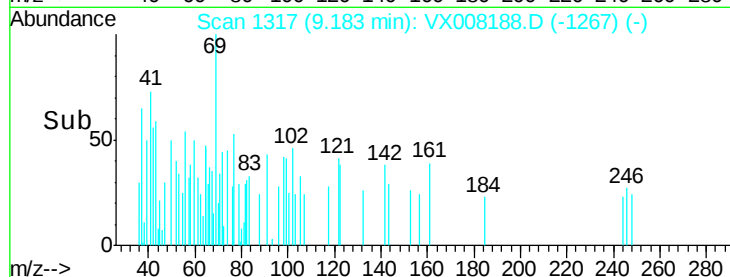
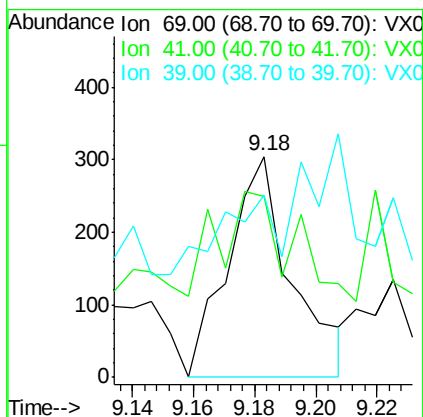
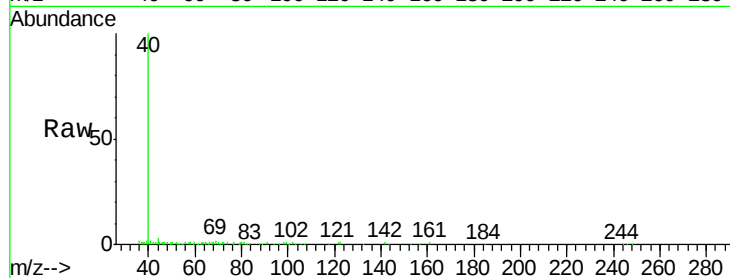
Delta R.T. 0.01 min

Lab File: VX008188.D

Acq: 19 Mar 2019 13:44

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	69	Resp:	436
Ion	Ratio	Lower	Upper
69	100		
41	57.1	54.2	81.4
39	31.2	25.0	37.4



#58

2-Chloroethyl Vinyl ether

Concen: 0.624 ug/l

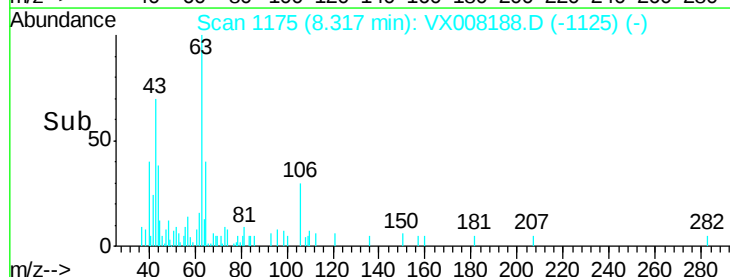
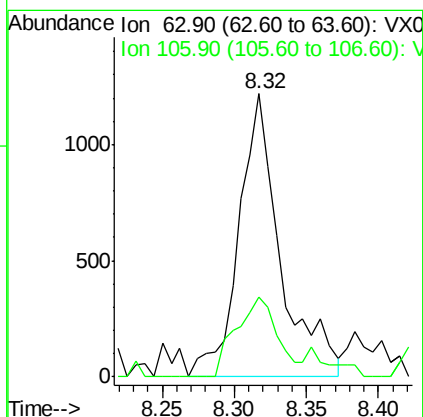
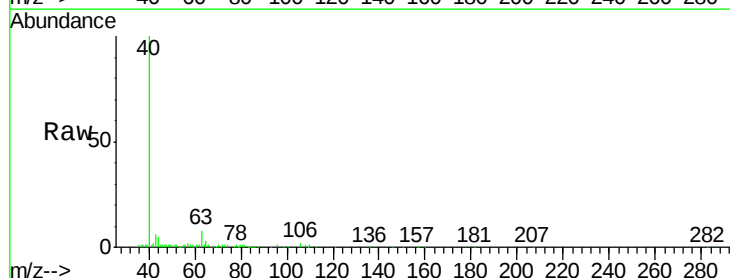
RT: 8.32 min Scan# 1175

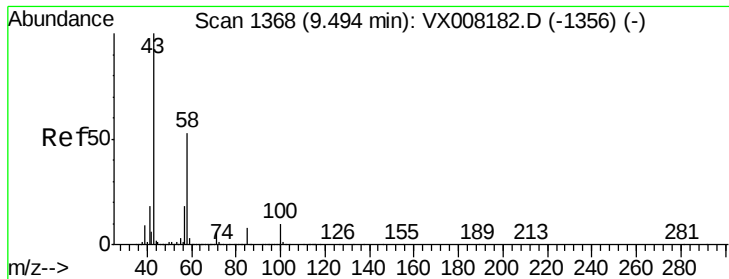
Delta R.T. 0.01 min

Lab File: VX008188.D

Acq: 19 Mar 2019 13:44

Tgt Ion:	63	Resp:	2450
Ion	Ratio	Lower	Upper
63	100		
106	27.6	22.2	33.2

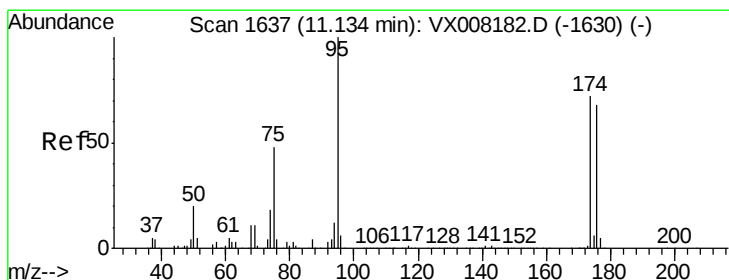
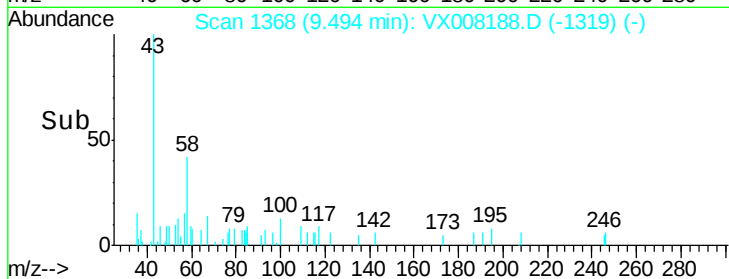
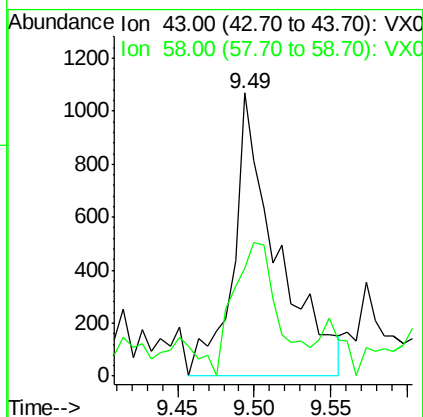
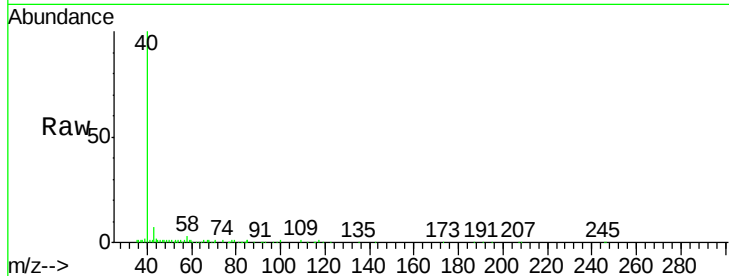




#59
2-Hexanone
Concen: 0.334 ug/l
RT: 9.49 min Scan# 1368
Delta R.T. -0.00 min
Lab File: VX008188.D
Acq: 19 Mar 2019 13:44

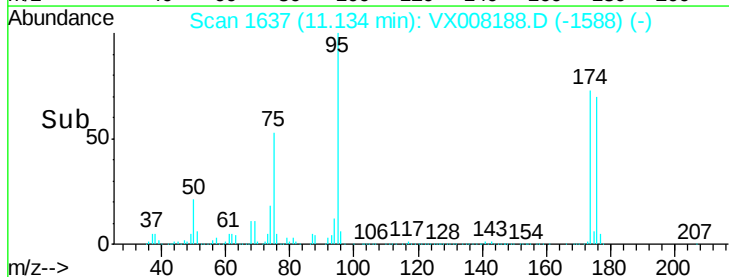
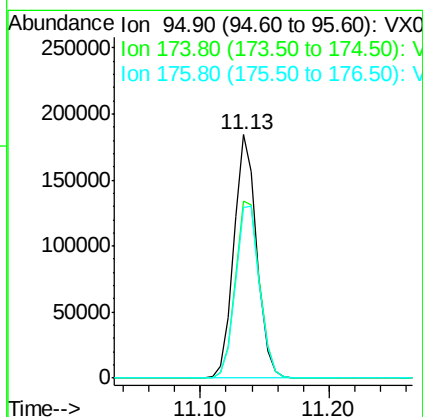
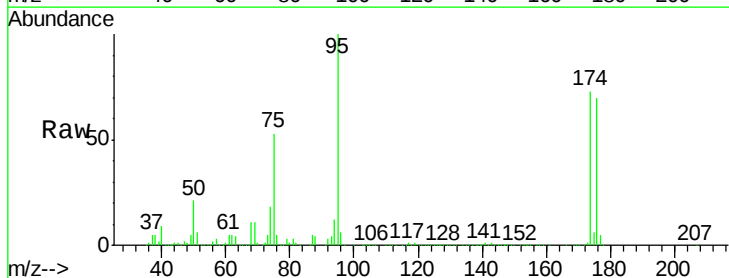
Instrument :
MSVOA_X
ClientSampleId :

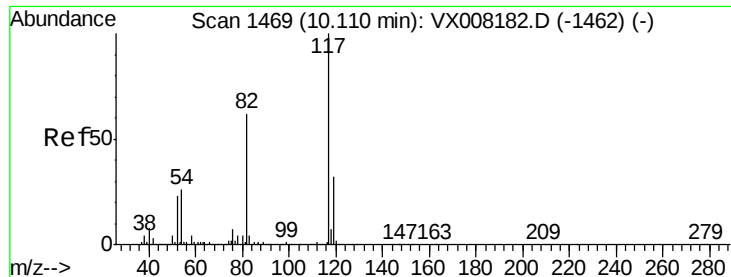
Tot Ion: 43 Resp: 2130
Ion Ratio Lower Upper
43 100
58 48.3 27.6 82.7



#62
4-Bromofluorobenzene
Concen: 45.042 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX008188.D
Acq: 19 Mar 2019 13:44

Tgt Ion: 95 Resp: 228290
Ion Ratio Lower Upper
95 100
174 77.1 0.0 182.8
176 74.7 0.0 178.0

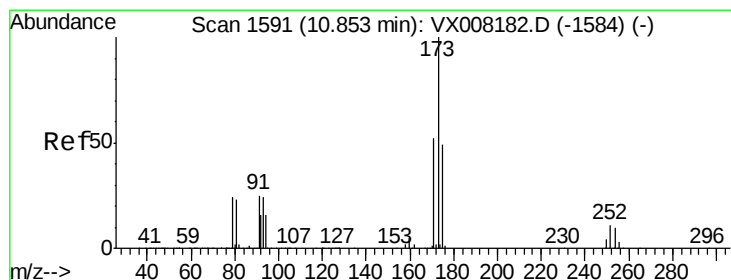
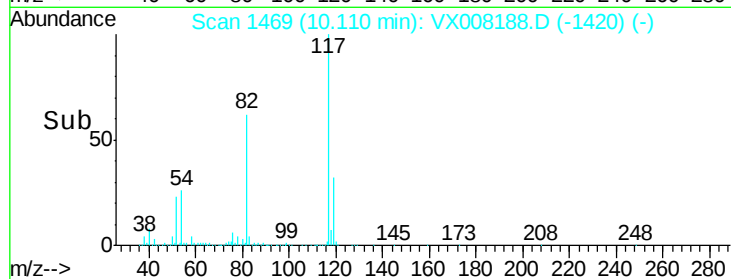
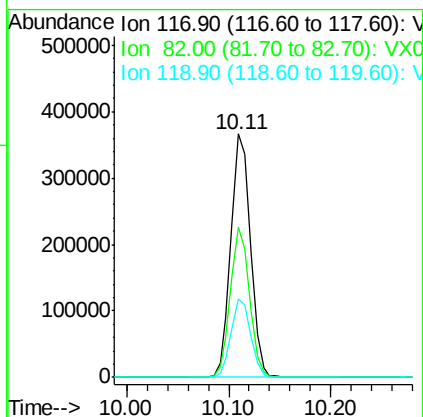
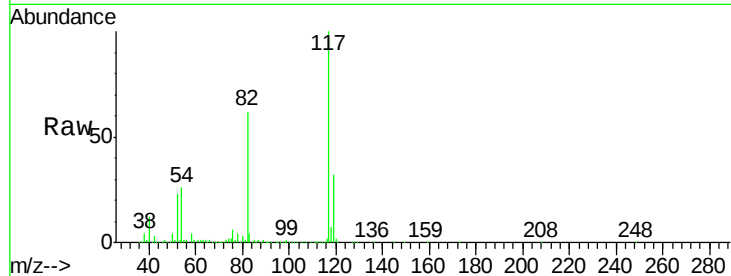




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008188.D
Acq: 19 Mar 2019 13:44

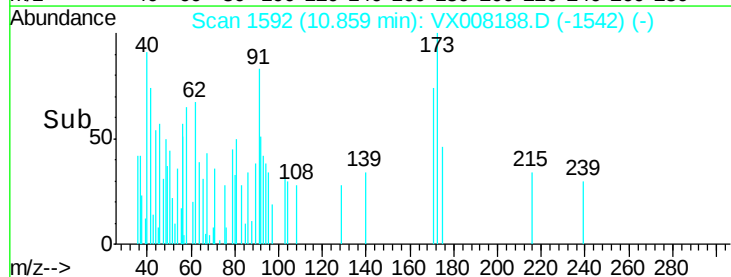
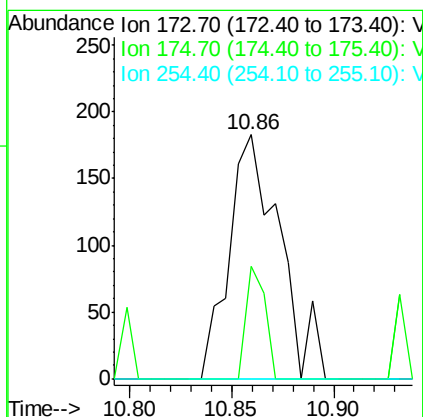
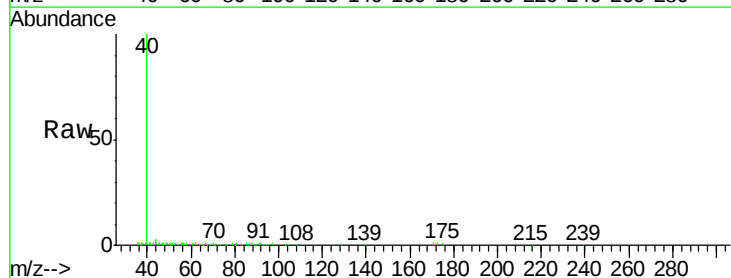
Instrument :
MSVOA_X
ClientSampleId :

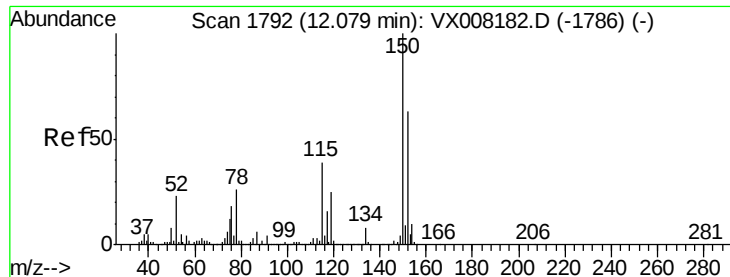
Tot Ion:117 Resp: 485633
Ion Ratio Lower Upper
117 100
82 61.9 44.3 66.5
119 32.4 25.3 37.9



#71
Bromoform
Concen: 2.286 ug/l
RT: 10.86 min Scan# 1592
Delta R.T. 0.01 min
Lab File: VX008188.D
Acq: 19 Mar 2019 13:44

Tgt Ion:173 Resp: 314
Ion Ratio Lower Upper
173 100
175 0.0 24.3 72.9#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008188.D

Acq: 19 Mar 2019 13:44

Instrument :

MSVOA_X

ClientSampleId :

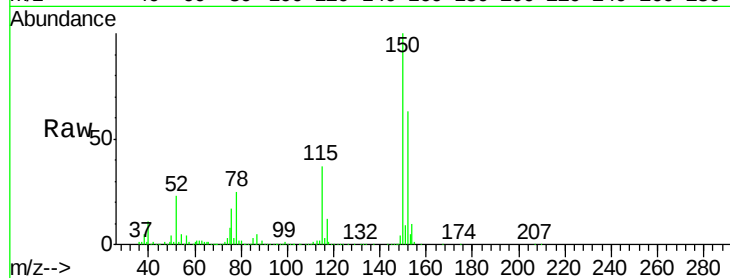
Tot Ion:152 Resp: 194223

Ion Ratio Lower Upper

152 100

115 60.1 38.6 115.7

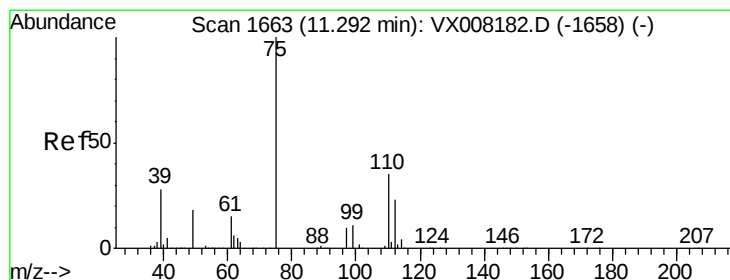
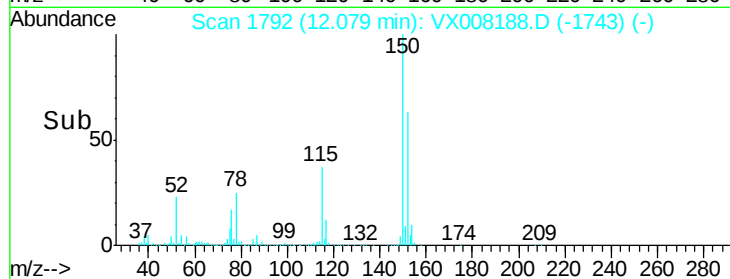
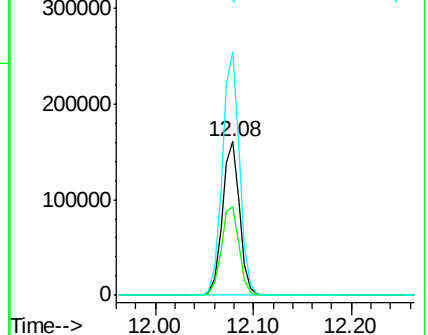
150 157.7 0.0 348.4



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: 21.640 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008188.D

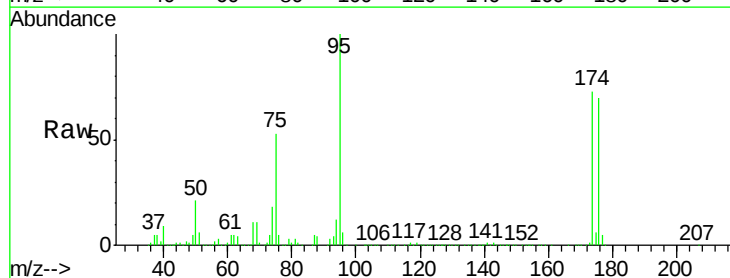
Acq: 19 Mar 2019 13:44

Tgt Ion: 75 Resp: 118212

Ion Ratio Lower Upper

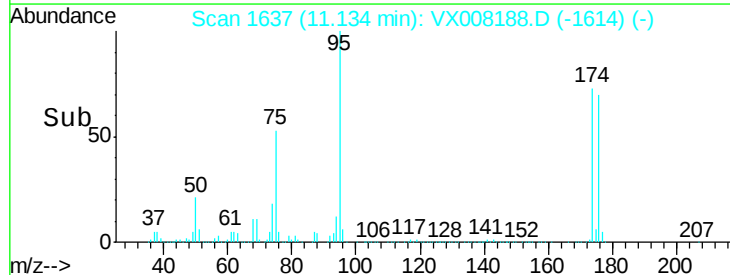
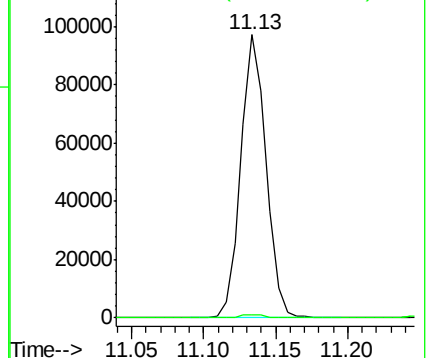
75 100

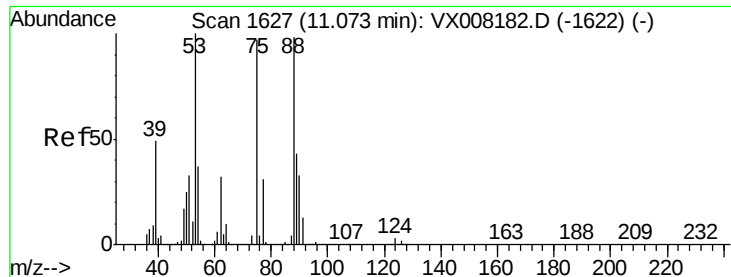
77 1.2 18.9 56.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 55.017 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008188.D

Acq: 19 Mar 2019 13:44

Instrument :

MSVOA_X

ClientSampleId :

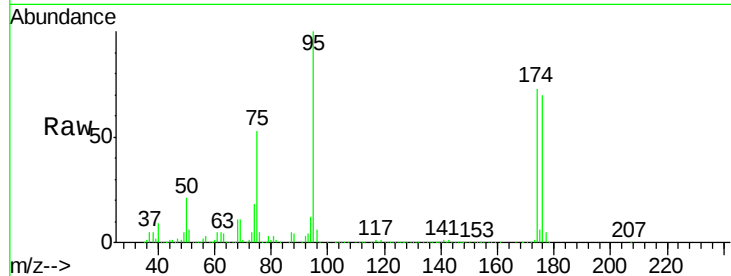
Tot Ion: 75 Resp: 118212

Ion Ratio Lower Upper

75 100

53 0.1 76.1 114.1#

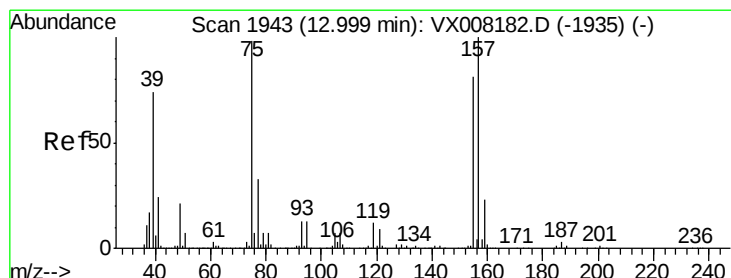
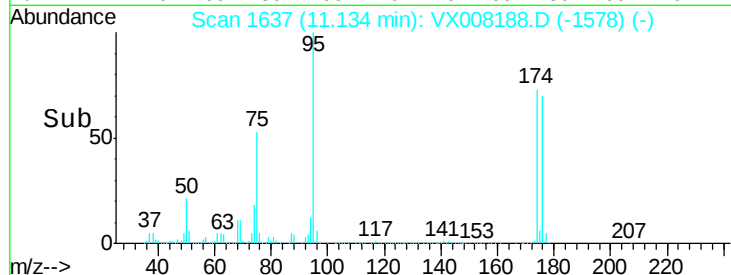
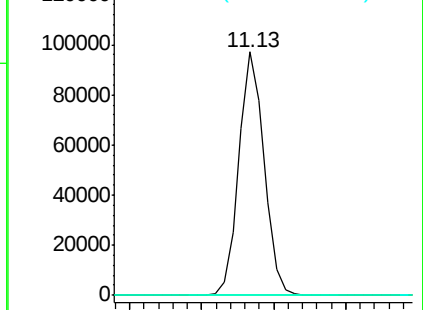
89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.235 ug/l

RT: 13.00 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VX008188.D

Acq: 19 Mar 2019 13:44

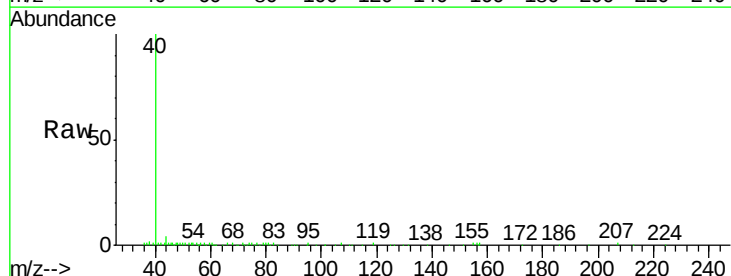
Tgt Ion: 75 Resp: 324

Ion Ratio Lower Upper

75 100

155 47.8 49.7 149.1#

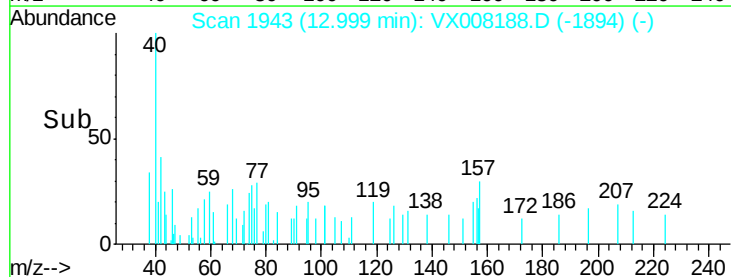
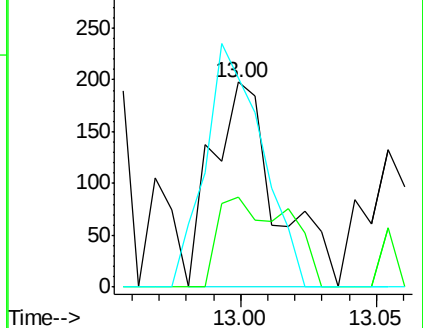
157 104.9 63.8 191.4

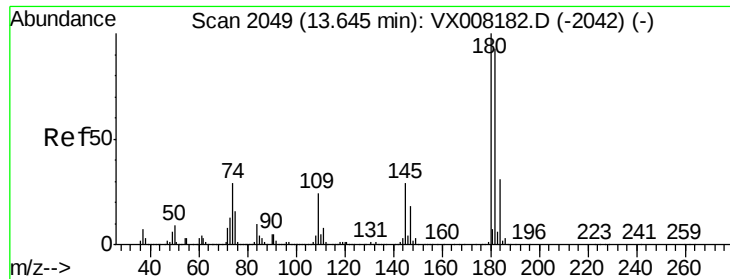


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

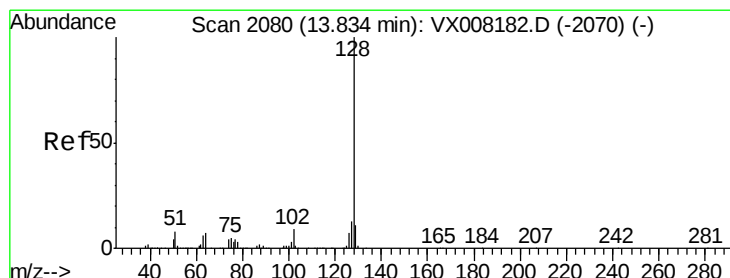
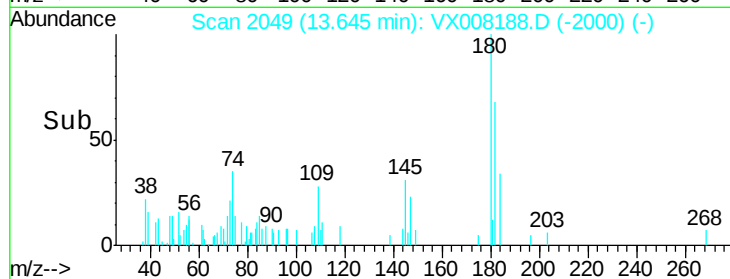
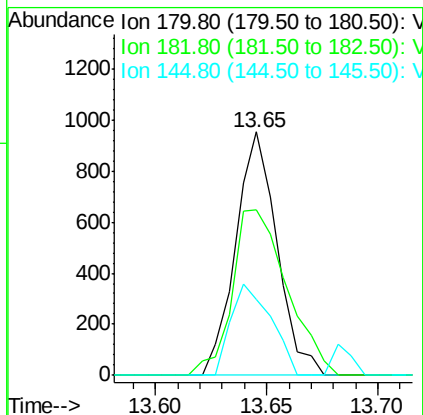
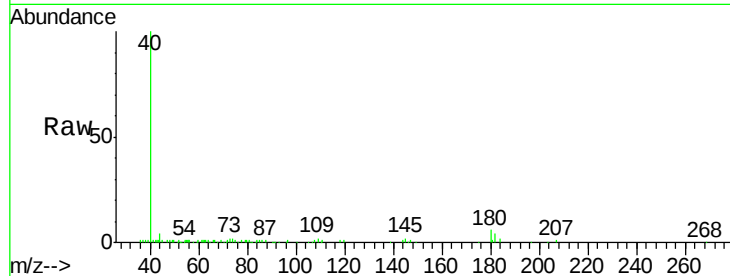




#93
 1,2,4-Trichlorobenzene
 Concen: 0.248 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. -0.00 min
 Lab File: VX008188.D
 Acq: 19 Mar 2019 13:44

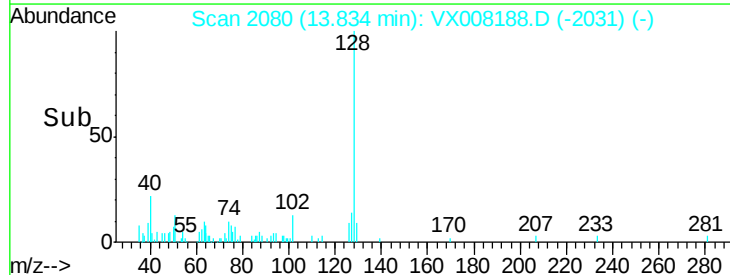
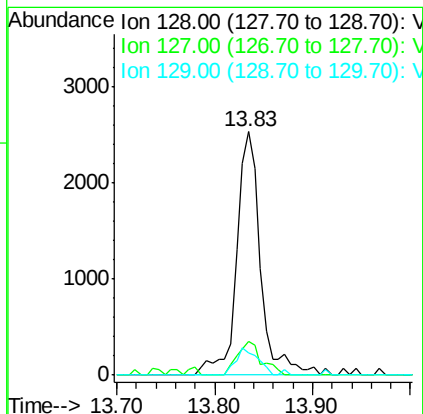
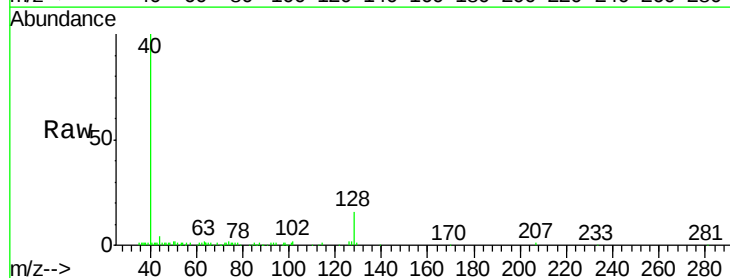
Instrument :
 MSVOA_X
 ClientSampled :

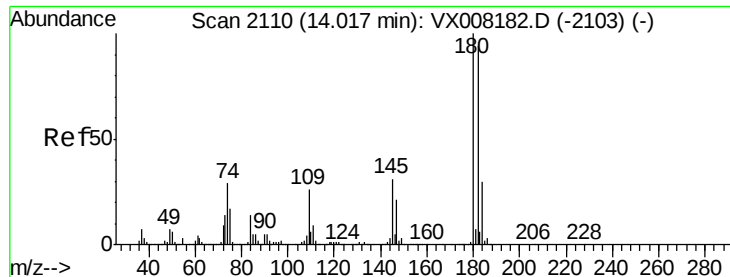
Tot Ion	Ratio	Lower	Upper
180	100		
182	90.0	47.9	143.7
145	36.4	14.1	42.4



#95
 Naphthalene
 Concen: 0.276 ug/l
 RT: 13.83 min Scan# 2080
 Delta R.T. -0.00 min
 Lab File: VX008188.D
 Acq: 19 Mar 2019 13:44

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.9	10.3	15.5
129	10.1	8.7	13.1





#96

1,2,3-Trichlorobenzene

Concen: 0.254 ug/l

RT: 14.02 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VX008188.D

Acq: 19 Mar 2019 13:44

Instrument :

MSVOA_X

ClientSampleId :

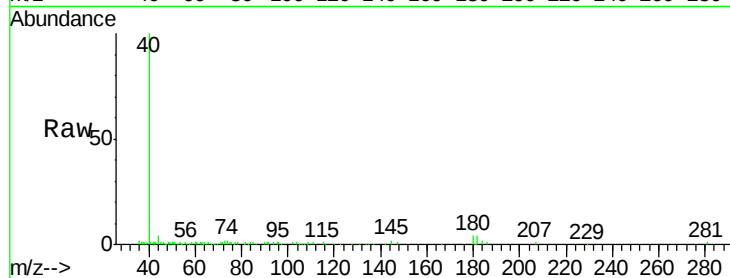
Tot Ion:180 Resp: 1242

Ion Ratio Lower Upper

180 100

182 100.7 47.5 142.5

145 30.6 14.8 44.3



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

