

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX010719\
 Data File : VX006936.D
 Acq On : 07 Jan 2019 15:28
 Operator : JC/MD
 Sample : PB116189ZHE#06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 08 06:33:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	615960	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	946711	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	899693	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	434756	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	324616	48.90	ug/l	0.00
Spiked Amount			Recovery	=	97.80%	
35) Dibromofluoromethane	5.50	113	291831	48.75	ug/l	0.00
Spiked Amount			Recovery	=	97.50%	
50) Toluene-d8	8.71	98	1150127	50.96	ug/l	0.00
Spiked Amount			Recovery	=	101.92%	
62) 4-Bromofluorobenzene	11.13	95	410673	49.68	ug/l	0.00
Spiked Amount			Recovery	=	99.36%	

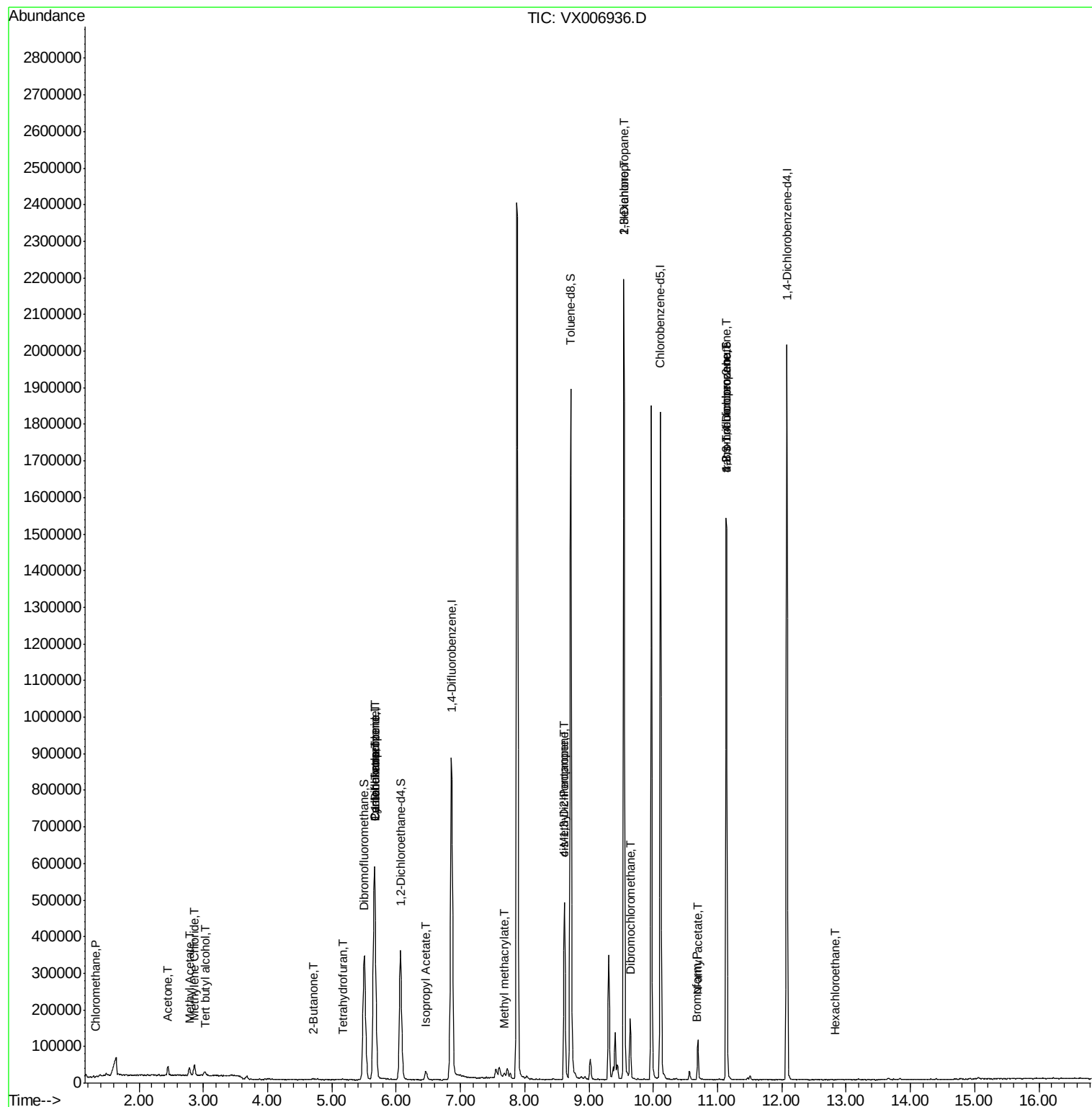
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1287	0.212	ug/l #	87
5) Bromomethane	1.64	94	953	Below Cal		93
11) Tert butyl alcohol	3.03	59	6818	4.602	ug/l #	80
16) Acetone	2.45	43	30106	9.871	ug/l	99
18) Methyl Acetate	2.78	43	28059	3.129	ug/l	92
20) Methylene Chloride	2.86	84	13799	2.188	ug/l	93
25) 2-Butanone	4.71	43	5795	1.351	ug/l #	82
28) Bromochloromethane	5.04	49	393	Below Cal	#	4
29) Tetrahydrofuran	5.17	42	2612	0.924	ug/l #	74
31) Cyclohexane	5.67	56	10741	1.169	ug/l #	13
36) 1,1-Dichloropropene	5.66	75	39395	5.024	ug/l #	49
38) Carbon Tetrachloride	5.67	117	55184	7.242	ug/l #	14
43) Isopropyl Acetate	6.46	43	32015	2.578	ug/l	98
48) Methyl methacrylate	7.68	41	16005	2.535	ug/l #	13
49) 1,4-Dioxane	7.76	88	124	Below Cal	#	27
51) 4-Methyl-2-Pentanone	8.62	43	162289	20.541	ug/l #	48
54) cis-1,3-Dichloropropene	8.62	75	80791	9.693	ug/l #	62
57) 1,3-Dichloropropane	9.54	76	18802	1.854	ug/l #	44
59) 2-Hexanone	9.54	43	250623	41.459	ug/l #	51
60) Dibromochloromethane	9.65	129	143	2.345	ug/l #	10
71) Bromoform	10.68	173	143	4.484	ug/l #	28
74) N-amyl acetate	10.69	43	25696	2.414	ug/l #	54
76) 1,2,3-Trichloropropane	11.13	75	192798	23.862	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	192798	70.705	ug/l #	10
90) Hexachloroethane	12.82	117	52	3.305	ug/l	92

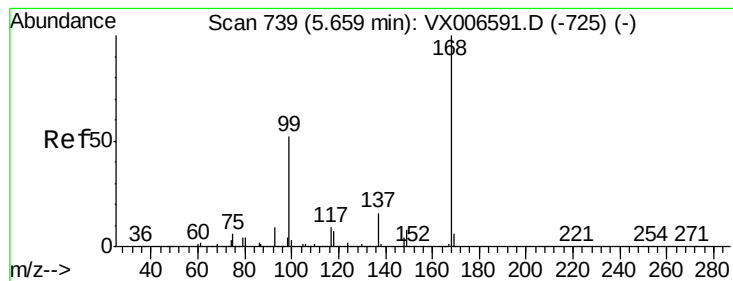
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
Quant Title : SW846 8260
QLast Update : Wed Dec 19 15:20:58 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006936.D

Acq: 07 Jan 2019 15:28

Instrument :

MSVOA_X

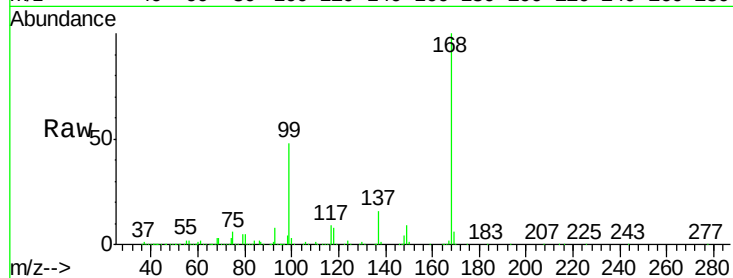
ClientSampleId :

Tot Ion:168 Resp: 615960

Ion Ratio Lower Upper

168 100

99 47.7 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

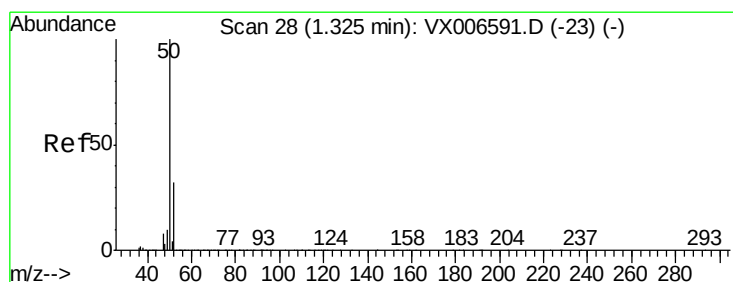
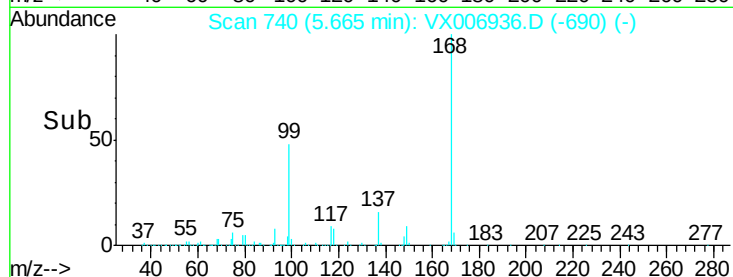
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.212 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX006936.D

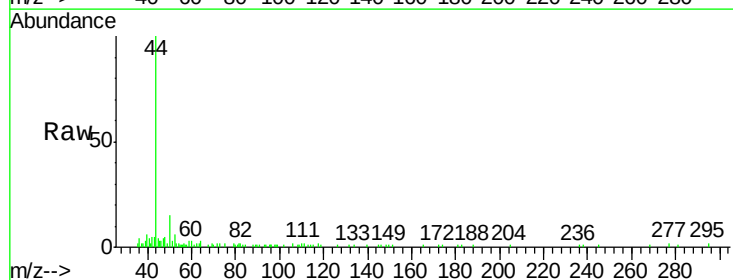
Acq: 07 Jan 2019 15:28

Tgt Ion: 50 Resp: 1287

Ion Ratio Lower Upper

50 100

52 39.3 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

1000

800

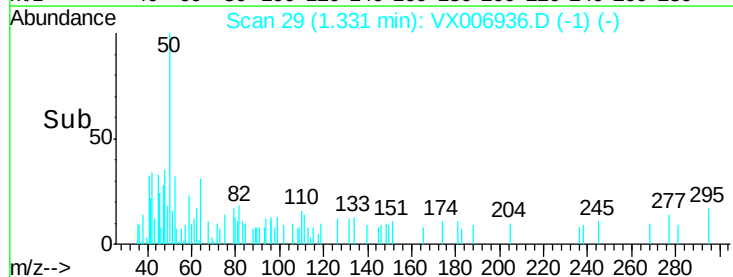
600

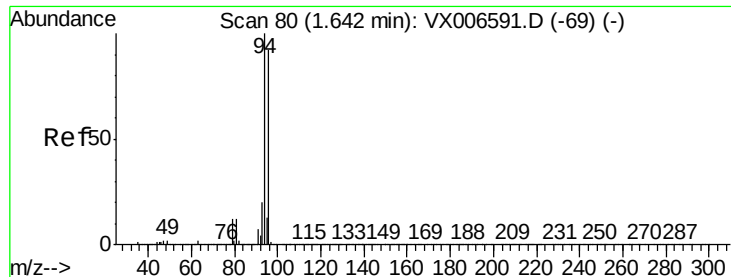
400

200

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 79

Delta R.T. -0.01 min

Lab File: VX006936.D

Acq: 07 Jan 2019 15:28

Instrument :

MSVOA_X

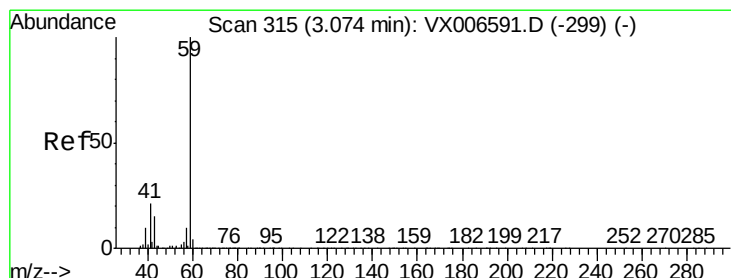
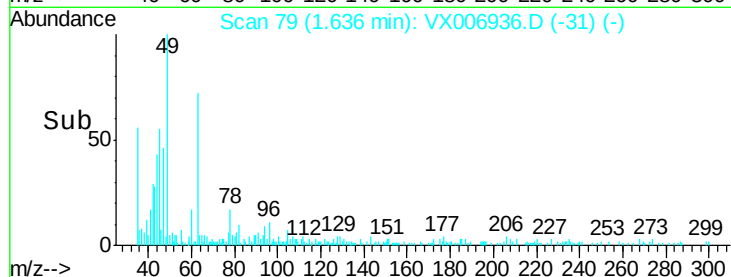
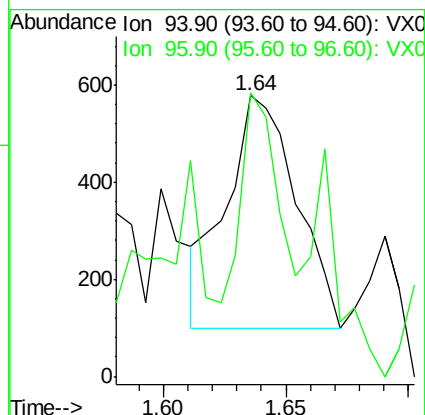
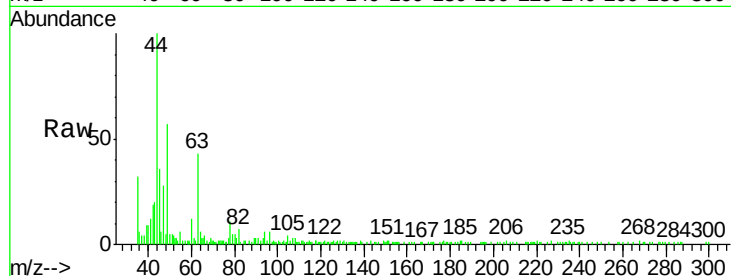
ClientSampleId :

Tot Ion: 94 Resp: 953

Ion Ratio Lower Upper

94 100

96 98.3 73.4 110.2



#11

Tert butyl alcohol

Concen: 4.602 ug/l

RT: 3.03 min Scan# 308

Delta R.T. -0.04 min

Lab File: VX006936.D

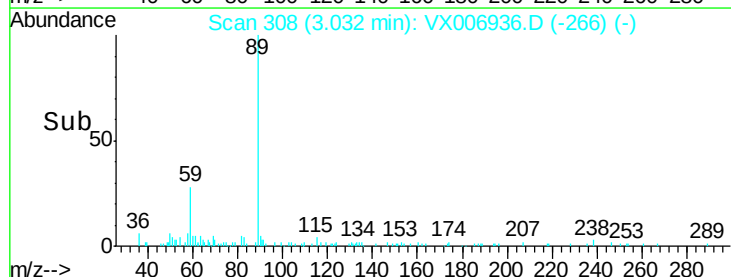
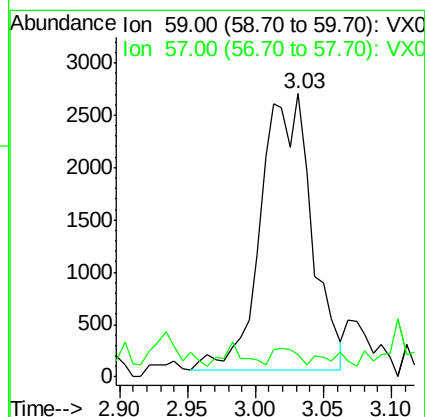
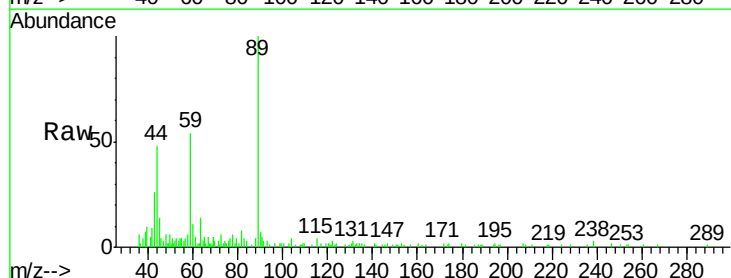
Acq: 07 Jan 2019 15:28

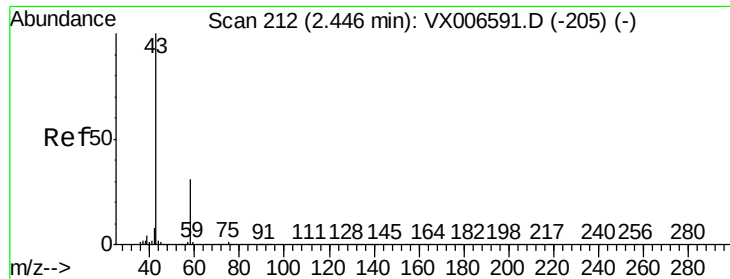
Tgt Ion: 59 Resp: 6818

Ion Ratio Lower Upper

59 100

57 3.1 8.5 12.7#

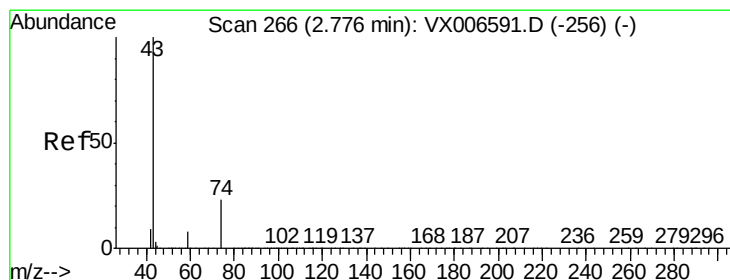
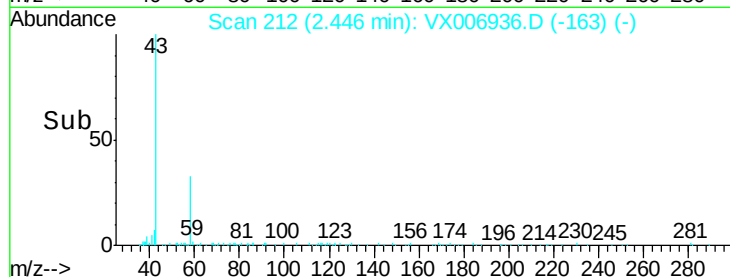
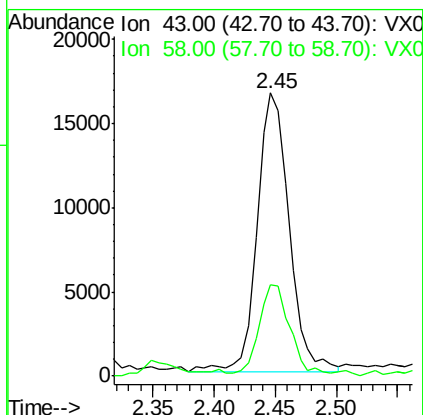
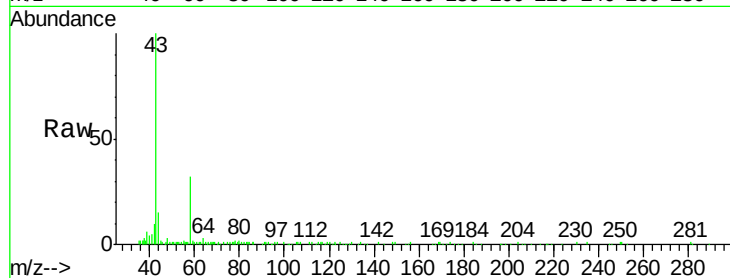




#16
Acetone
Concen: 9.871 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX006936.D
Acq: 07 Jan 2019 15:28

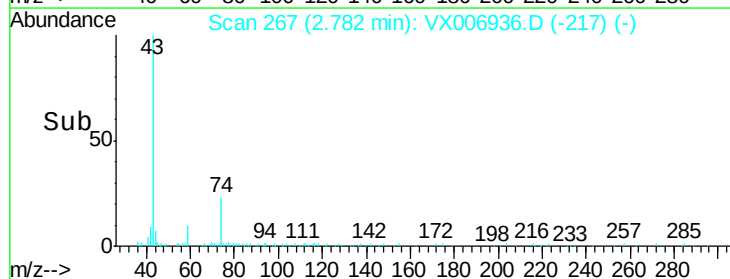
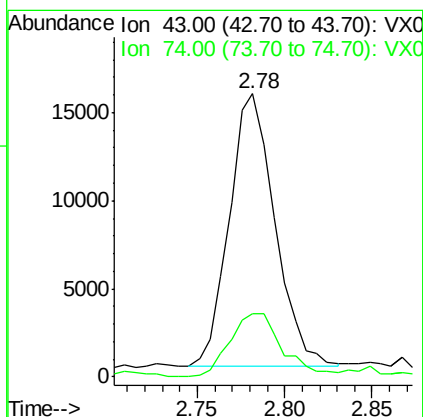
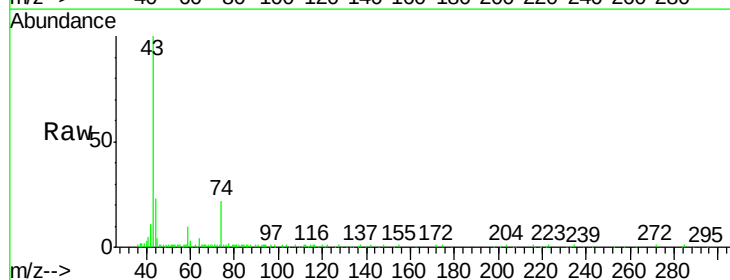
Instrument :
MSVOA_X
ClientSampleId :

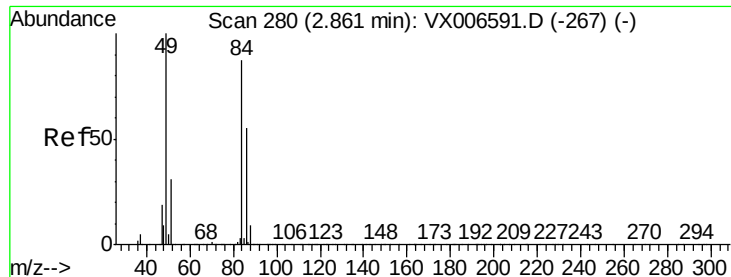
Tot Ion: 43 Resp: 30106
Ion Ratio Lower Upper
43 100
58 31.7 25.0 37.6



#18
Methyl Acetate
Concen: 3.129 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX006936.D
Acq: 07 Jan 2019 15:28

Tgt Ion: 43 Resp: 28059
Ion Ratio Lower Upper
43 100
74 27.0 18.6 28.0

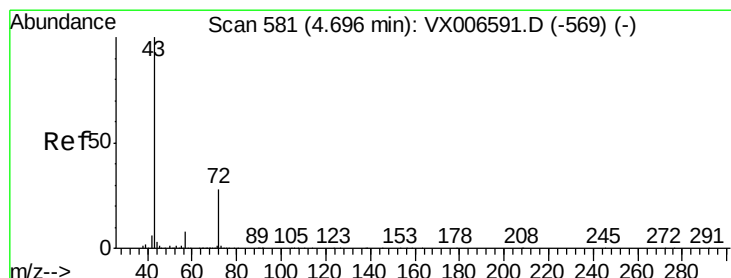
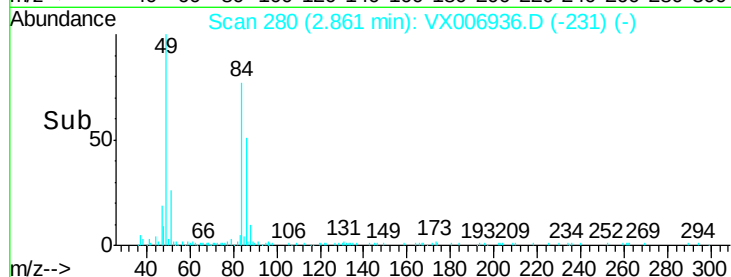
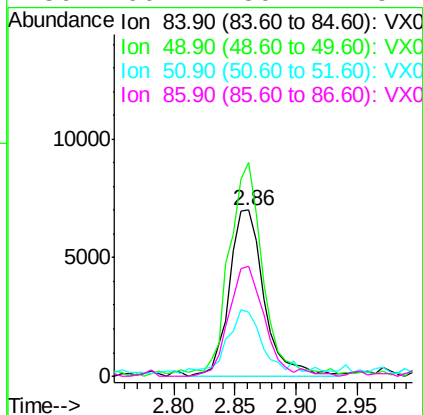
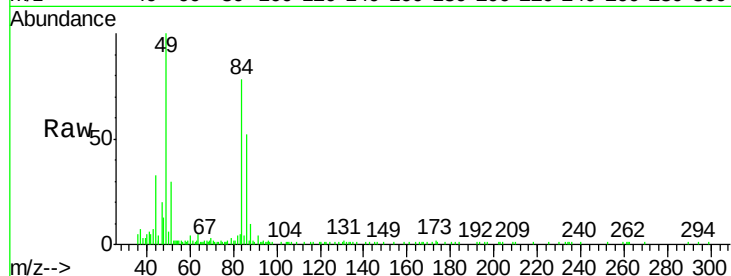




#20
Methvlene Chloride
Concen: 2.188 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX006936.D
Acq: 07 Jan 2019 15:28

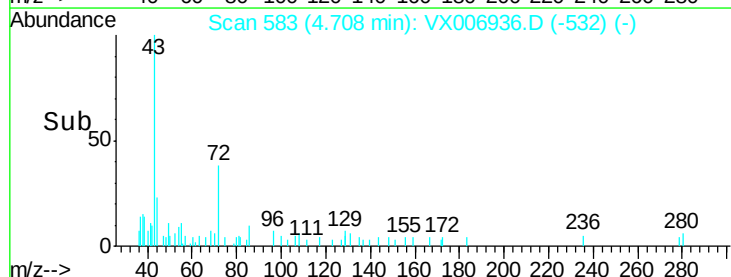
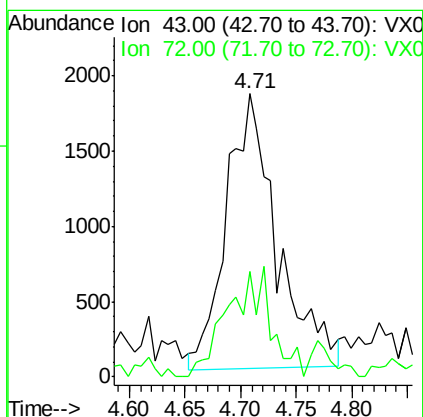
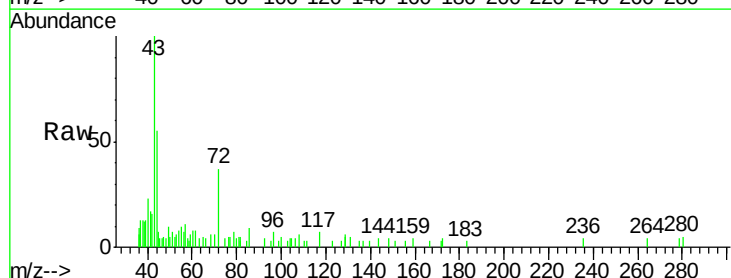
Instrument :
MSVOA_X
ClientSampled :

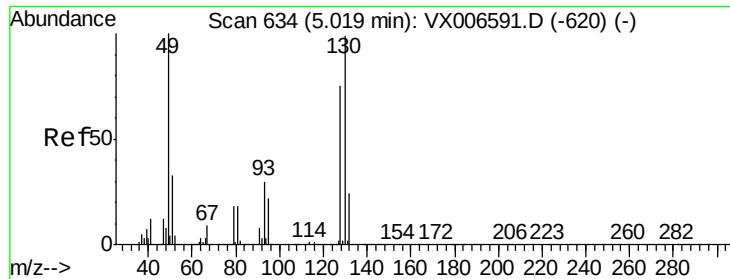
Tot Ion:	84	Resp:	13799
Ion	Ratio	Lower	Upper
84	100		
49	126.8	91.8	137.6
51	35.4	28.5	42.7
86	66.4	50.2	75.2



#25
2-Butanone
Concen: 1.351 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX006936.D
Acq: 07 Jan 2019 15:28

Tgt Ion:	43	Resp:	5795
Ion	Ratio	Lower	Upper
43	100		
72	37.4	22.4	33.6#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.04 min Scan# 637

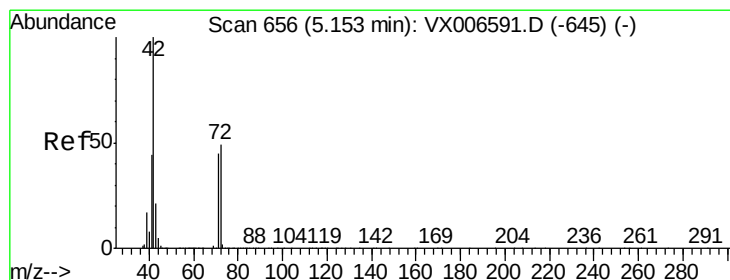
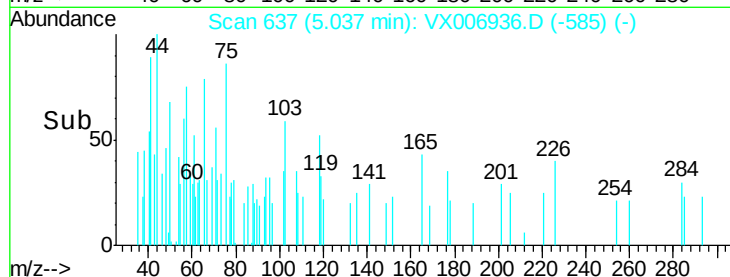
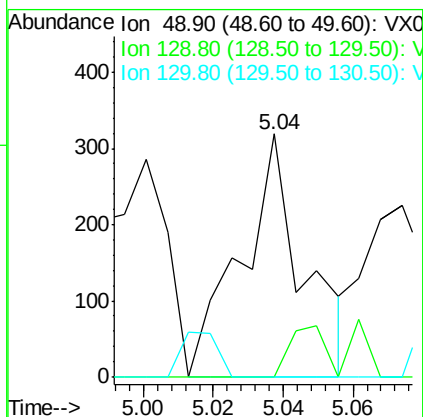
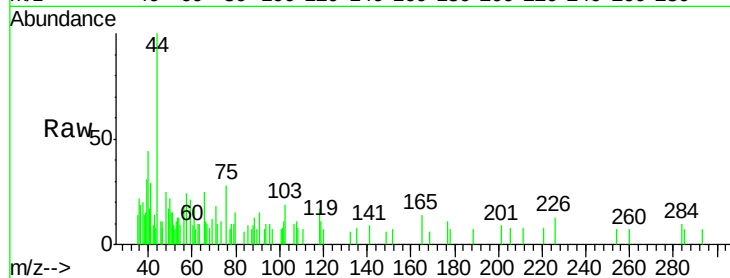
Delta R.T. 0.02 min

Lab File: VX006936.D

Acq: 07 Jan 2019 15:28

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 49 Resp: 393
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.4
130 0.0 77.7 116.5#



#29

Tetrahydrofuran

Concen: 0.924 ug/l

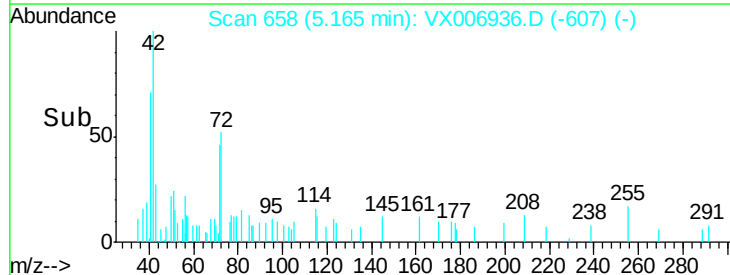
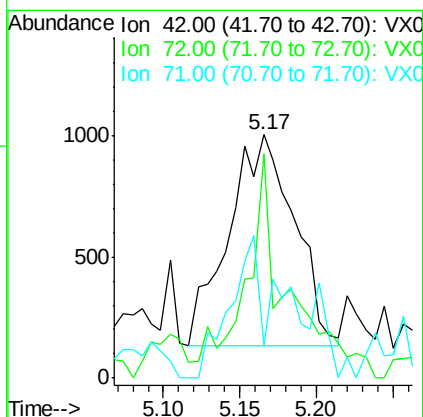
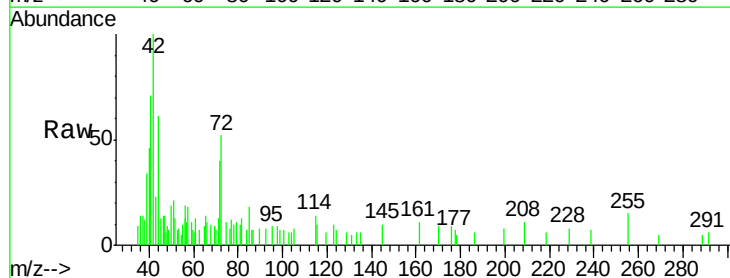
RT: 5.17 min Scan# 658

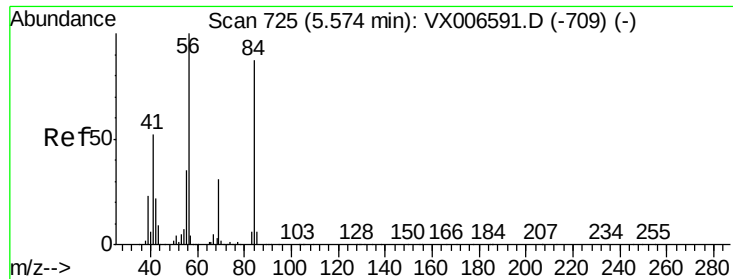
Delta R.T. 0.01 min

Lab File: VX006936.D

Acq: 07 Jan 2019 15:28

Tgt Ion: 42 Resp: 2612
Ion Ratio Lower Upper
42 100
72 68.3 38.9 58.3#
71 30.0 36.2 54.4#

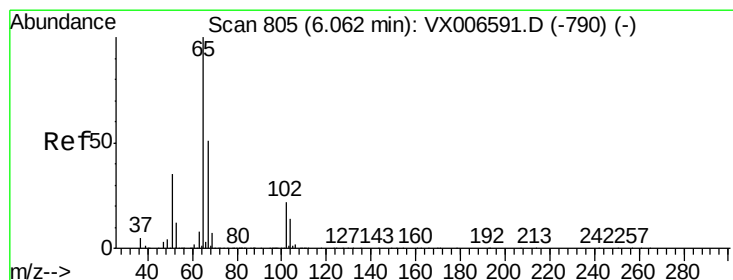
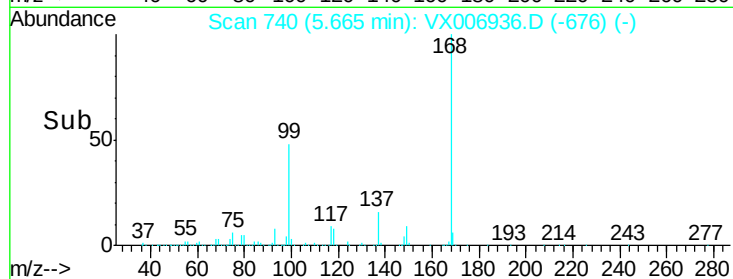
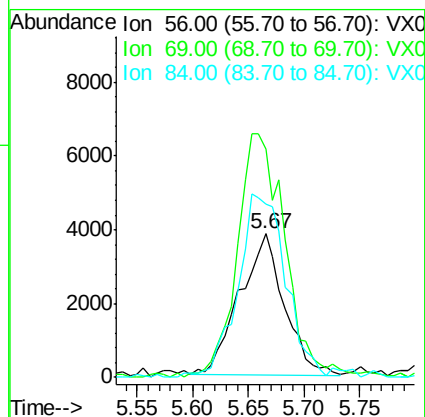
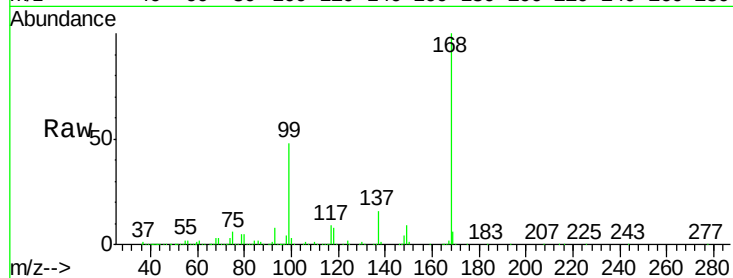




#31
Cyclohexane
Concen: 1.169 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX006936.D
Acq: 07 Jan 2019 15:28

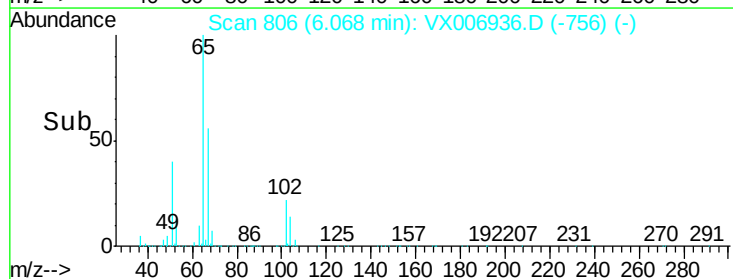
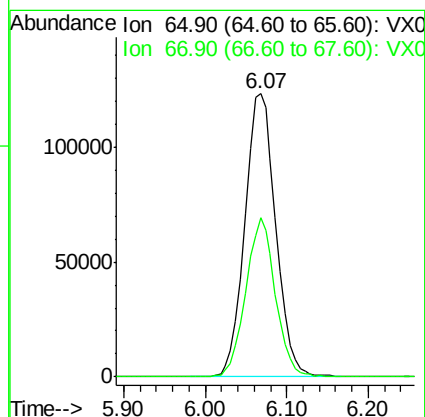
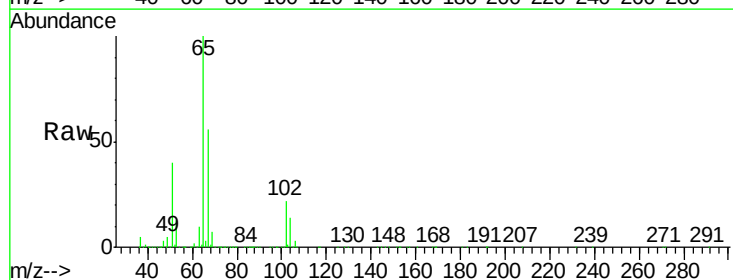
Instrument :
MSVOA_X
ClientSampled :

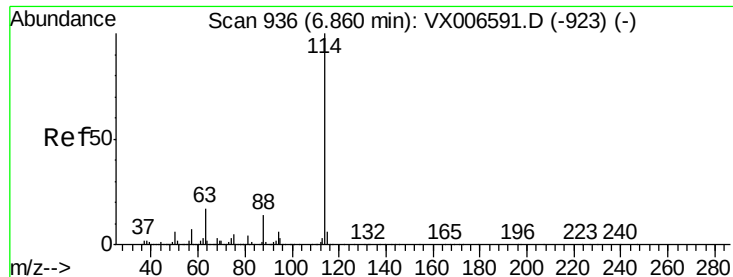
Tot Ion: 56 Resp: 10741
Ion Ratio Lower Upper
56 100
69 159.0 24.4 36.6#
84 120.3 70.0 105.0#



#33
1,2-Dichloroethane-d4
Concen: 48.899 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.01 min
Lab File: VX006936.D
Acq: 07 Jan 2019 15:28

Tgt Ion: 65 Resp: 324616
Ion Ratio Lower Upper
65 100
67 53.7 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006936.D

Acq: 07 Jan 2019 15:28

Instrument :

MSVOA_X

ClientSampled :

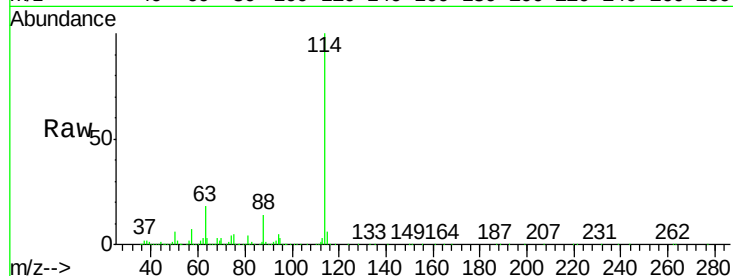
Tot Ion:114 Resp: 946711

Ion Ratio Lower Upper

114 100

63 17.9 0.0 34.8

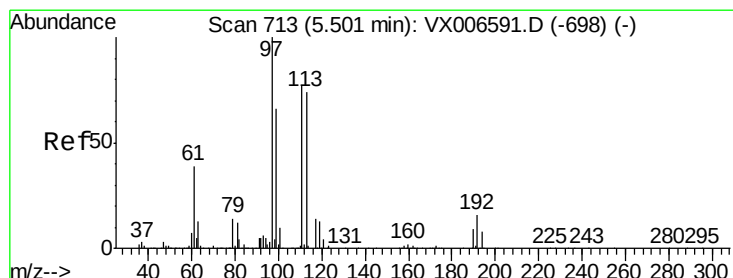
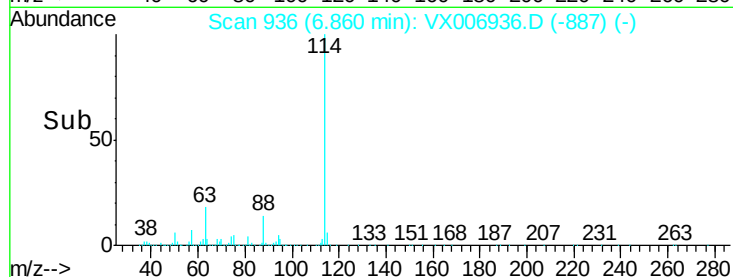
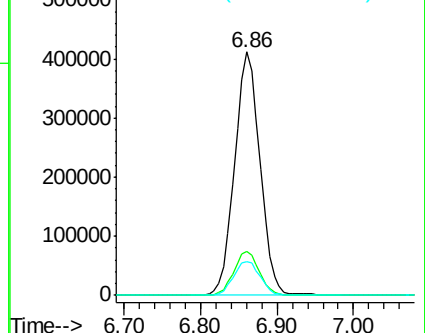
88 14.0 0.0 28.8



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: 48.746 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX006936.D

Acq: 07 Jan 2019 15:28

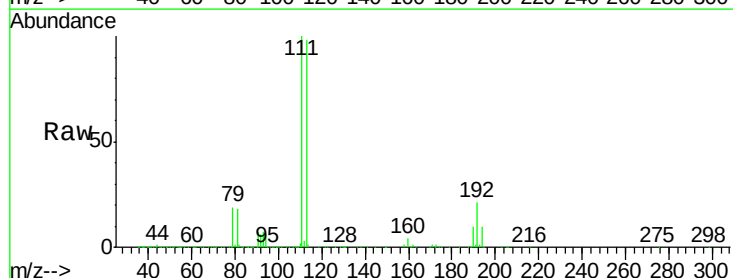
Tgt Ion:113 Resp: 291831

Ion Ratio Lower Upper

113 100

111 101.7 81.6 122.4

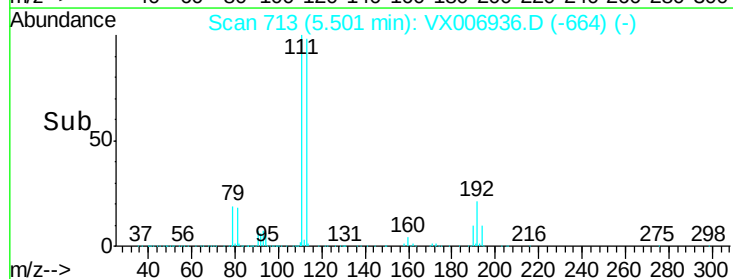
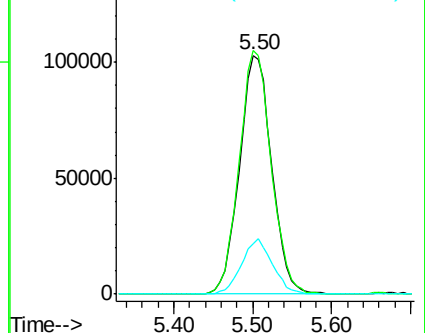
192 22.2 16.7 25.1

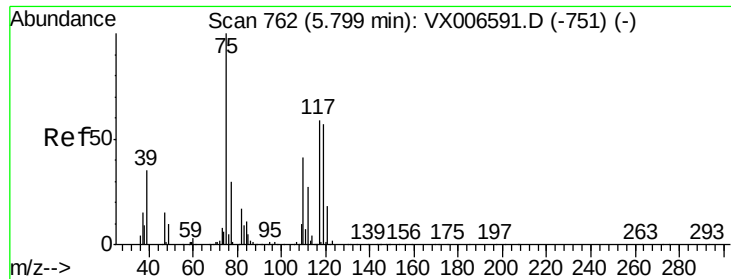


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.024 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006936.D

Acq: 07 Jan 2019 15:28

Instrument :

MSVOA_X

ClientSampleId :

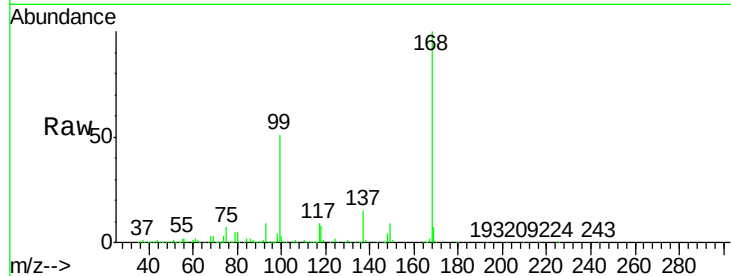
Tot Ion: 75 Resp: 39395

Ion Ratio Lower Upper

75 100

110 11.0 20.2 60.5#

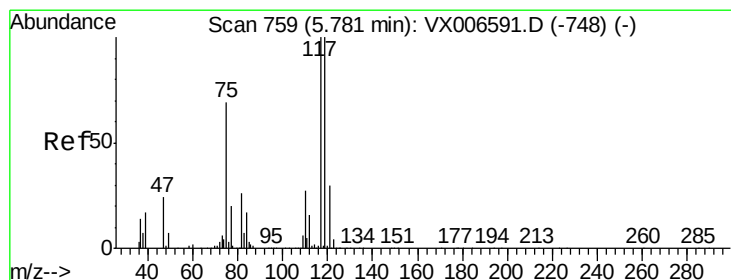
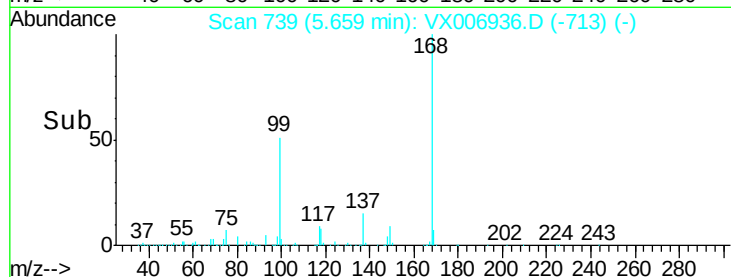
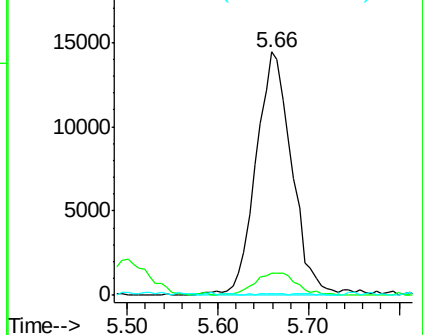
77 0.7 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 7.242 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006936.D

Acq: 07 Jan 2019 15:28

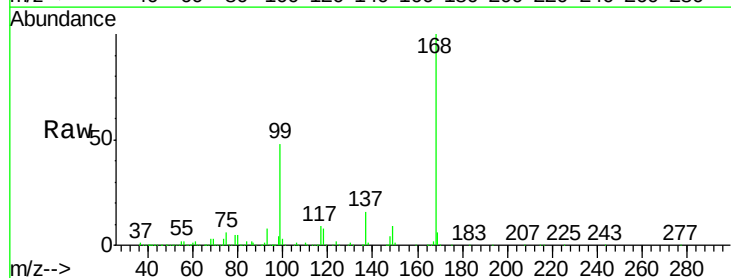
Tgt Ion: 117 Resp: 55184

Ion Ratio Lower Upper

117 100

119 4.2 79.4 119.2#

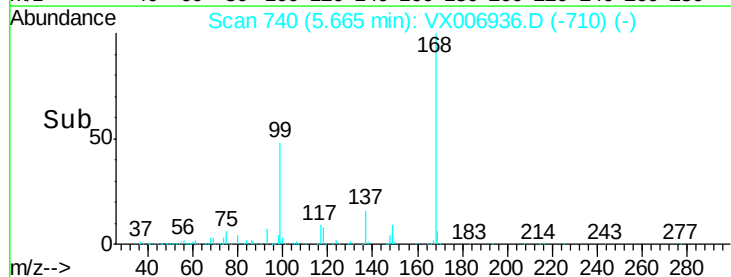
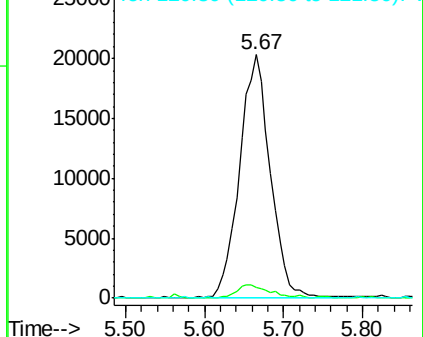
121 0.0 24.0 36.0#

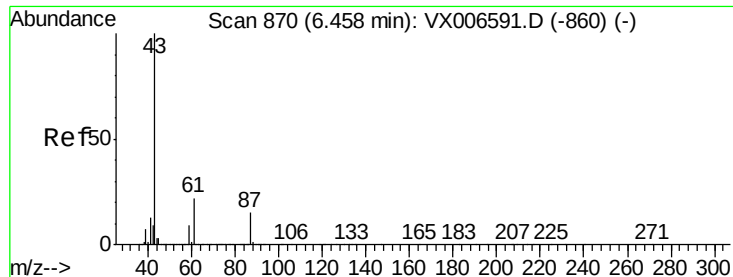


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 2.578 ug/l

RT: 6.46 min Scan# 870

Delta R.T. 0.00 min

Lab File: VX006936.D

Acq: 07 Jan 2019 15:28

Instrument :

MSVOA_X

ClientSampleId :

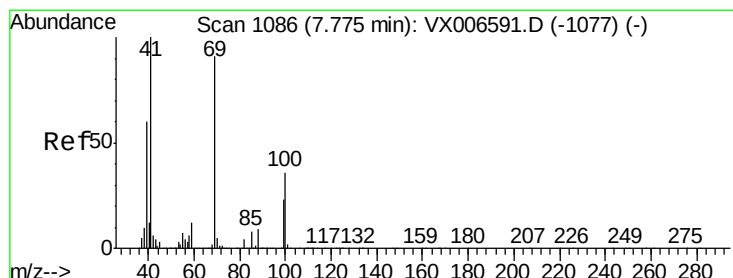
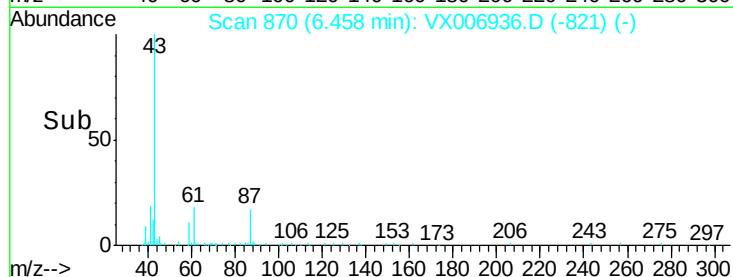
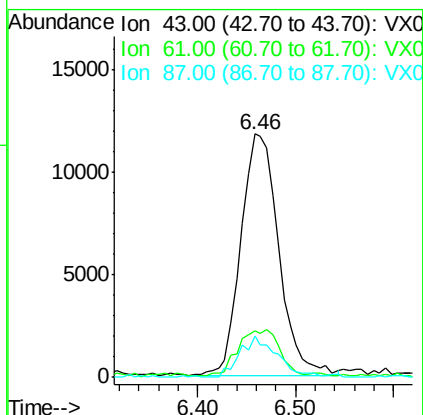
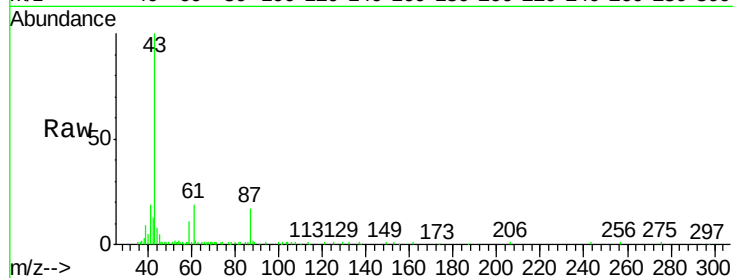
Tot Ion: 43 Resp: 32015

Ion Ratio Lower Upper

43 100

61 20.9 16.8 25.2

87 16.9 12.4 18.6



#48

Methyl methacrylate

Concen: 2.535 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX006936.D

Acq: 07 Jan 2019 15:28

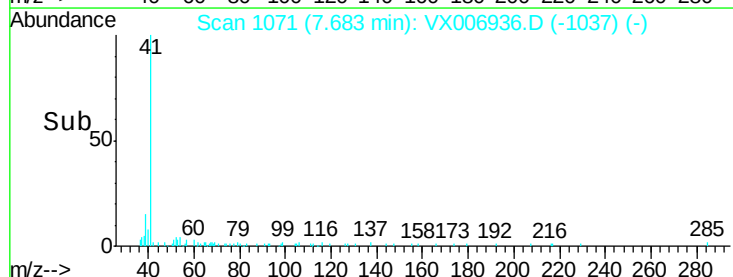
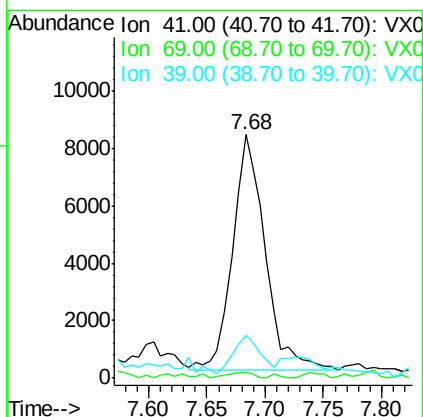
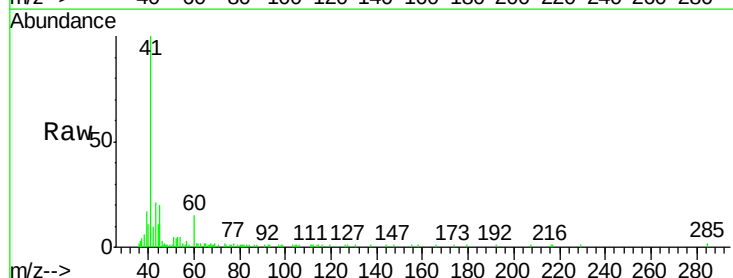
Tgt Ion: 41 Resp: 16005

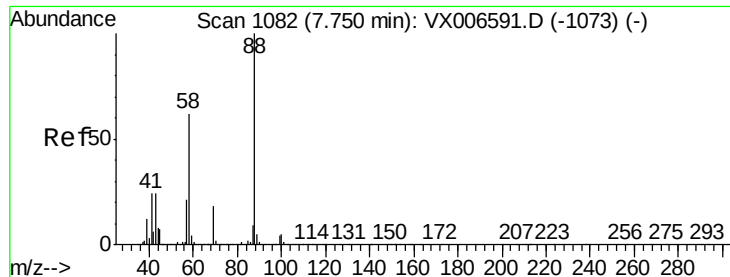
Ion Ratio Lower Upper

41 100

69 2.0 72.4 108.6#

39 0.0 45.8 68.8#





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX006936.D

Acq: 07 Jan 2019 15:28

Instrument :

MSVOA_X

ClientSampled :

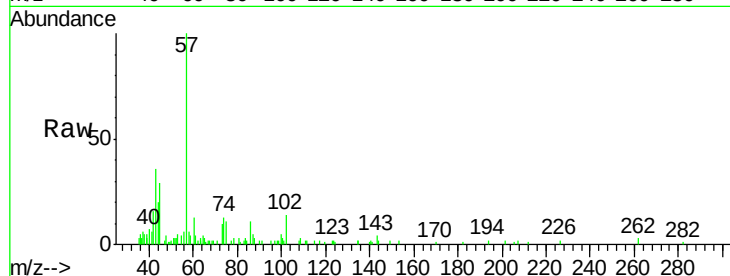
Tot Ion: 88 Resp: 124

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

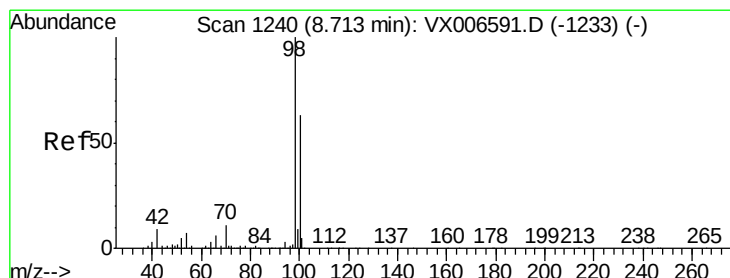
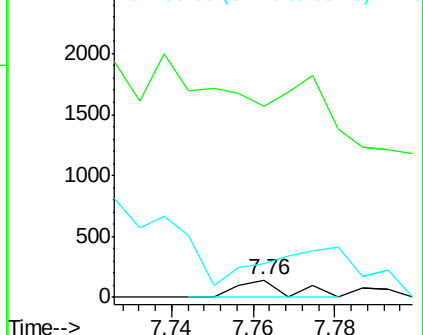
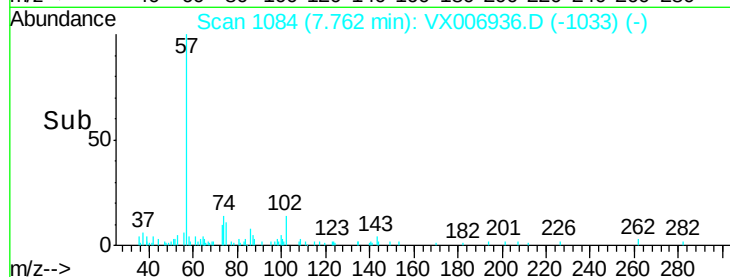
58 0.0 51.0 76.4#



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: 50.957 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX006936.D

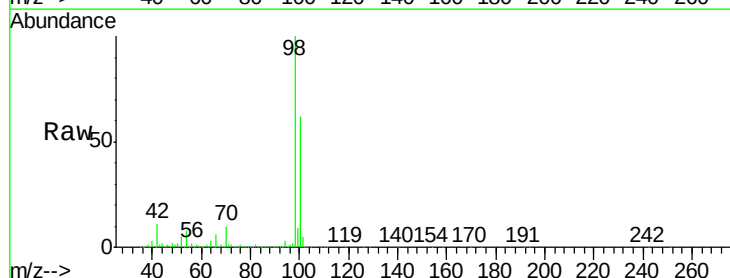
Acq: 07 Jan 2019 15:28

Tgt Ion: 98 Resp: 1150127

Ion Ratio Lower Upper

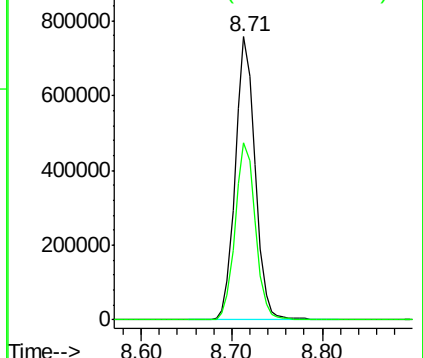
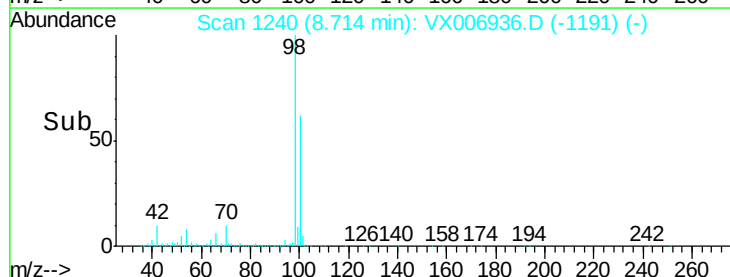
98 100

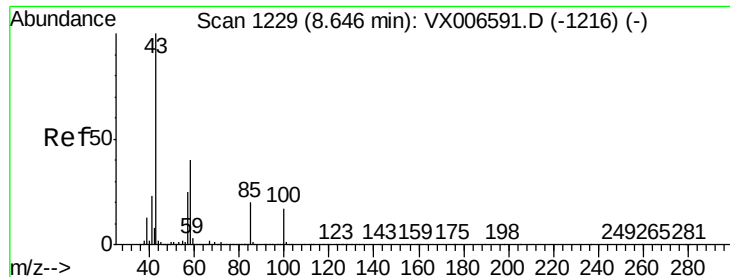
100 63.7 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

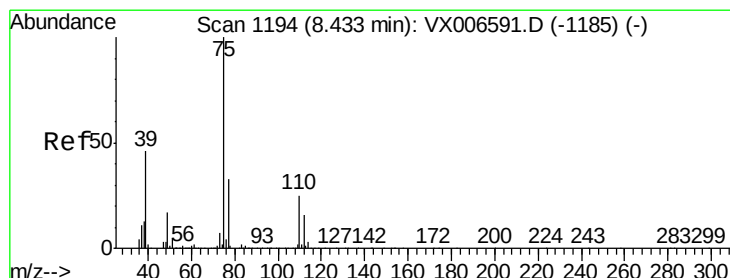
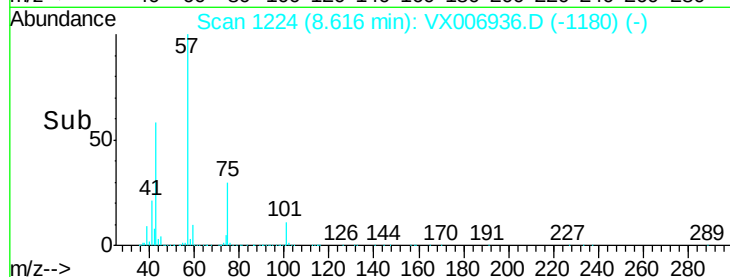
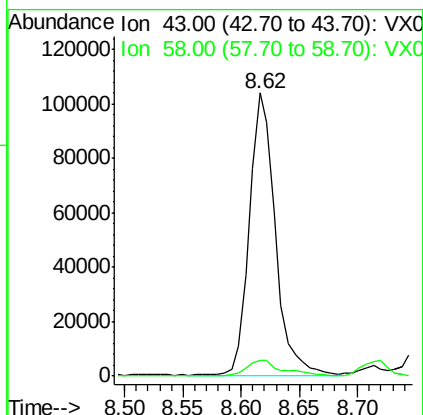
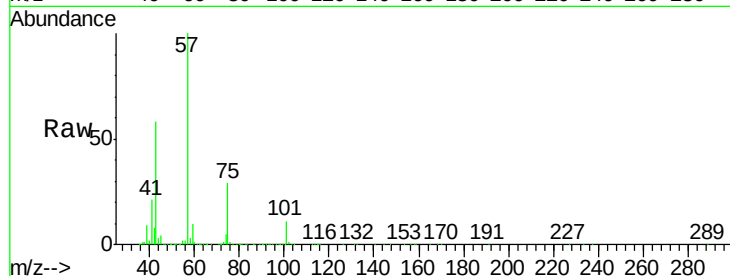




#51
 4-Methyl-2-Pentanone
 Concen: 20.541 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. -0.03 min
 Lab File: VX006936.D
 Acq: 07 Jan 2019 15:28

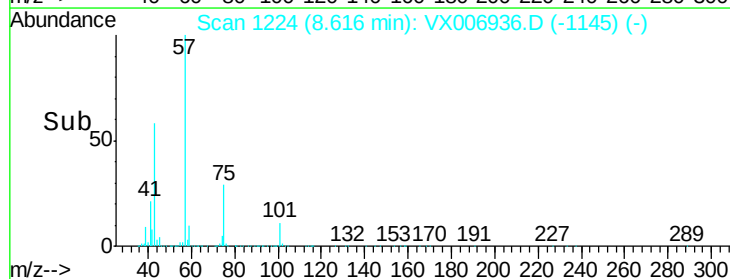
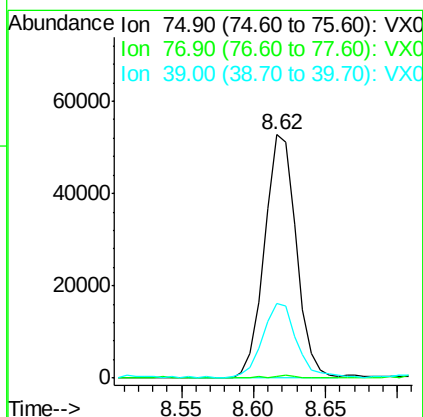
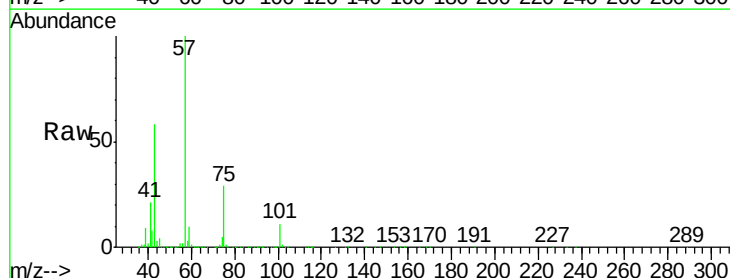
Instrument :
 MSVOA_X
 ClientSampleId :

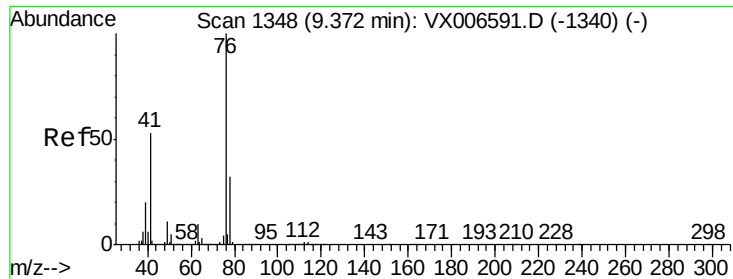
Tot Ion: 43 Resp: 162289
 Ion Ratio Lower Upper
 43 100
 58 8.0 31.8 47.6#



#54
 cis-1,3-Dichloropropene
 Concen: 9.693 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. 0.18 min
 Lab File: VX006936.D
 Acq: 07 Jan 2019 15:28

Tgt Ion: 75 Resp: 80791
 Ion Ratio Lower Upper
 75 100
 77 0.5 26.2 39.2#
 39 30.0 36.7 55.1#





#57

1,3-Dichloropropane

Concen: 1.854 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX006936.D

Acq: 07 Jan 2019 15:28

Instrument :

MSVOA_X

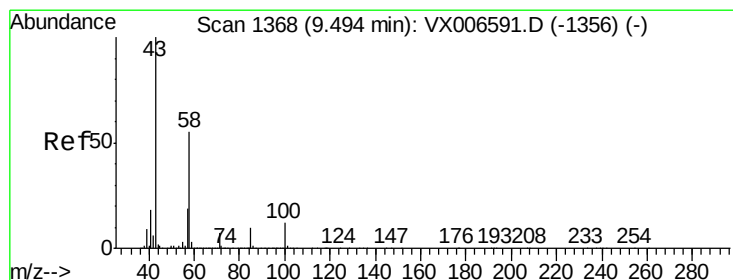
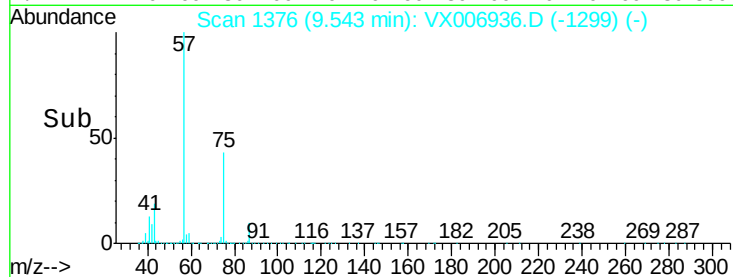
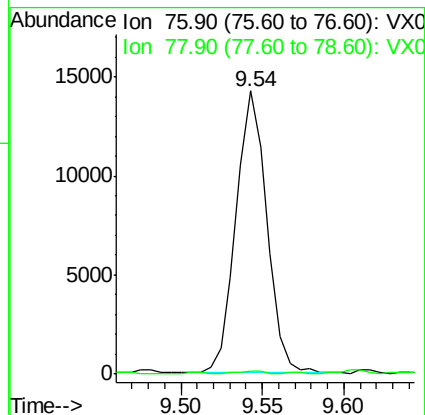
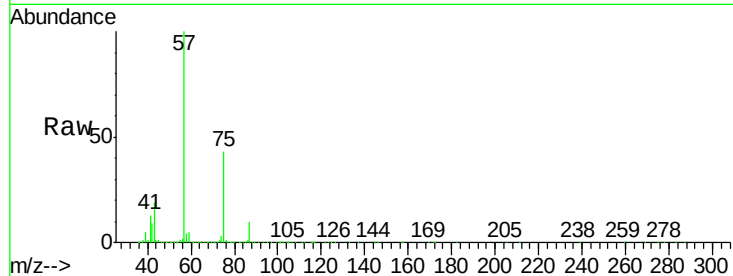
ClientSampleId :

Tot Ion: 76 Resp: 18802

Ion Ratio Lower Upper

76 100

78 0.9 26.0 39.0#



#59

2-Hexanone

Concen: 41.459 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX006936.D

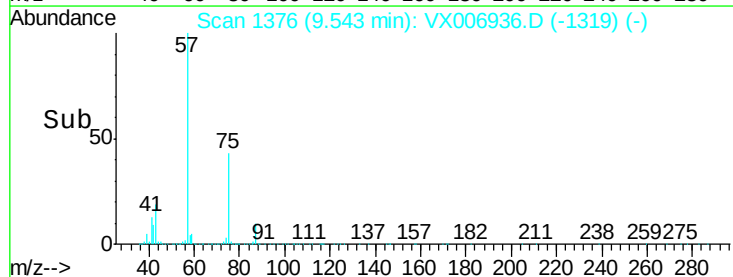
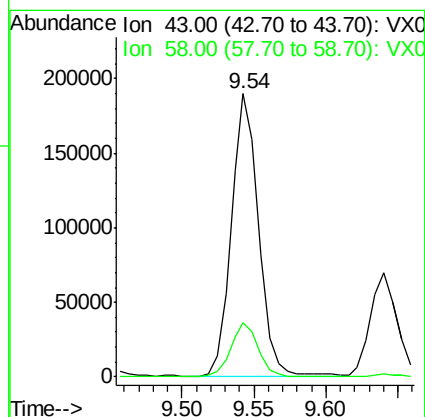
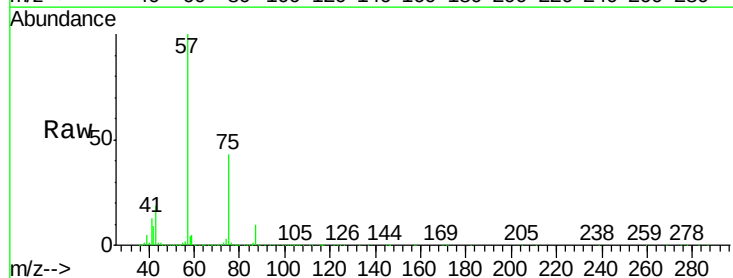
Acq: 07 Jan 2019 15:28

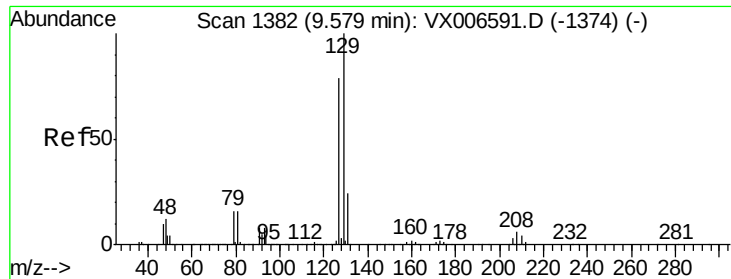
Tgt Ion: 43 Resp: 250623

Ion Ratio Lower Upper

43 100

58 19.8 27.7 83.1#





#60

Dibromochloromethane

Concen: 2.345 ug/l

RT: 9.65 min Scan# 1393

Delta R.T. 0.07 min

Lab File: VX006936.D

Acq: 07 Jan 2019 15:28

Instrument :

MSVOA_X

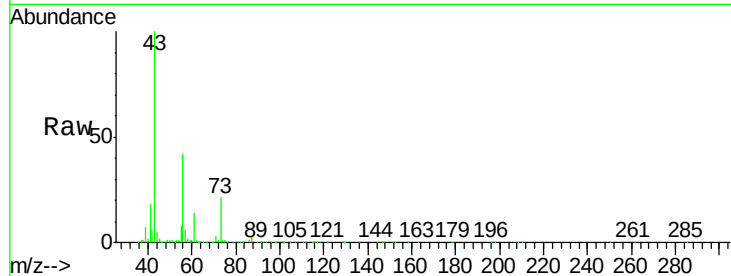
ClientSampleId :

Tot Ion:129 Resp: 143

Ion Ratio Lower Upper

129 100

127 0.0 39.3 117.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.65

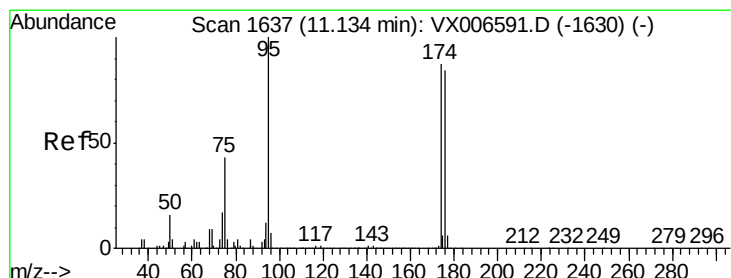
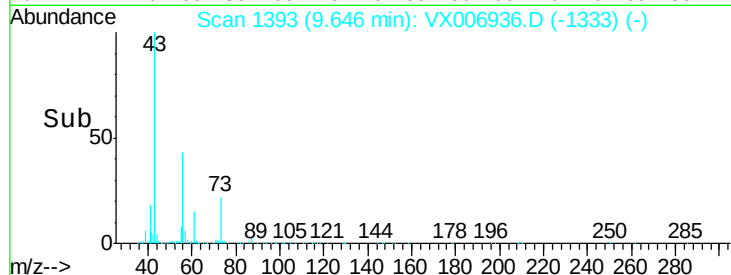
150

100

50

0

Time-->



#62

4-Bromofluorobenzene

Concen: 49.681 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX006936.D

Acq: 07 Jan 2019 15:28

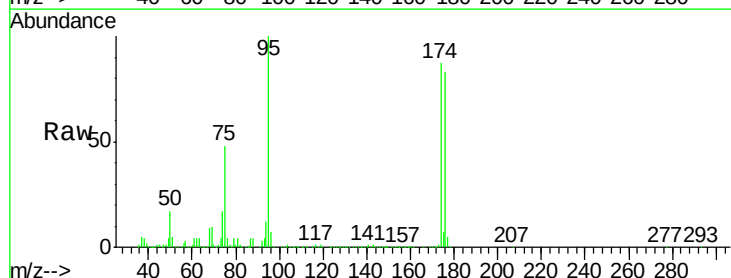
Tgt Ion: 95 Resp: 410673

Ion Ratio Lower Upper

95 100

174 92.5 0.0 182.2

176 89.2 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

400000

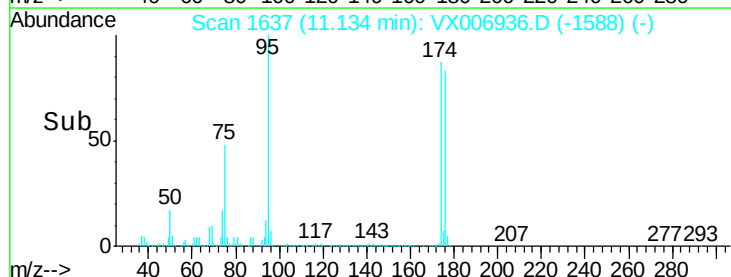
300000

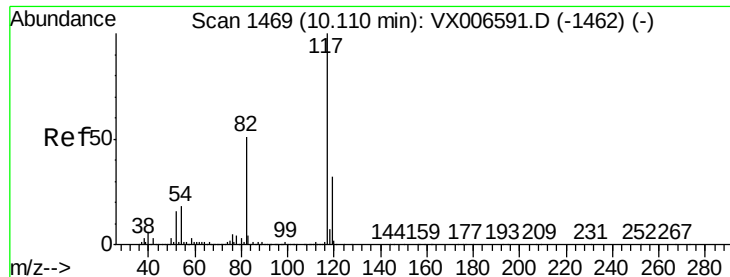
200000

100000

0

Time-->

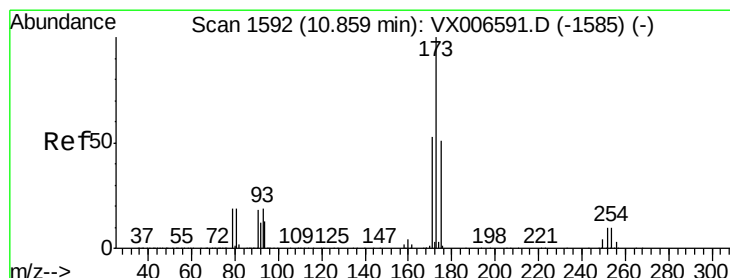
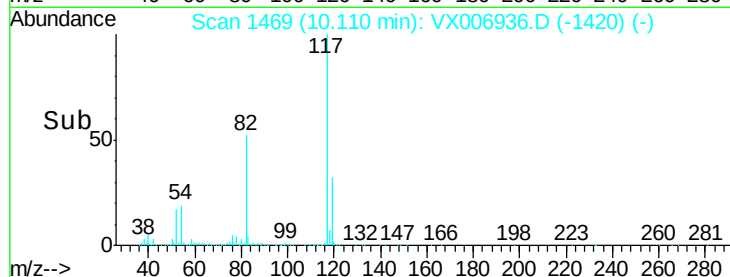
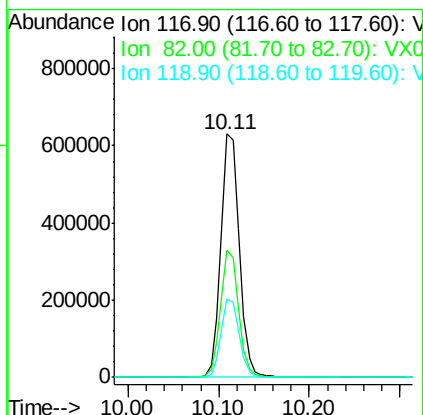
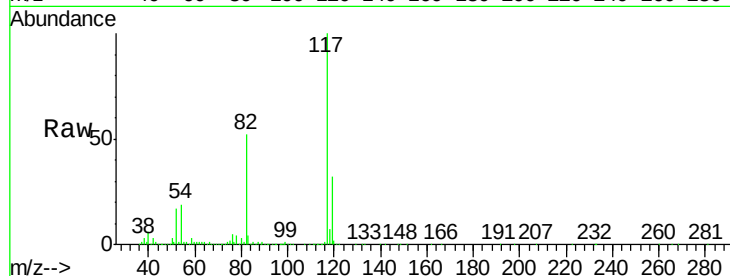




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX006936.D
Acq: 07 Jan 2019 15:28

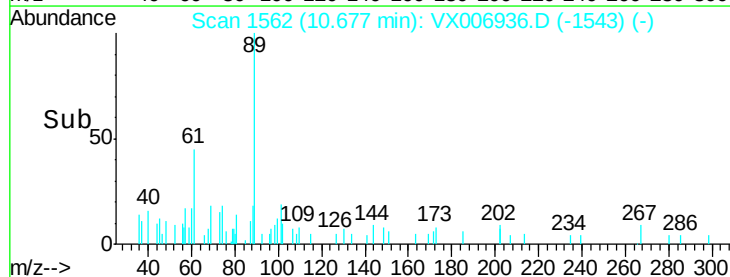
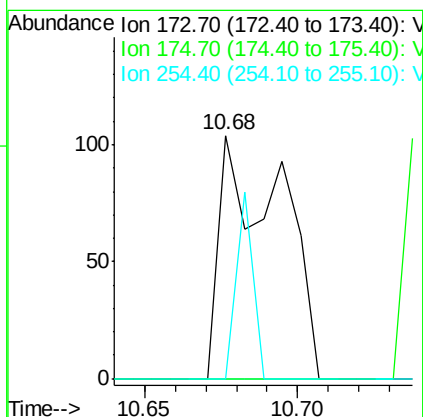
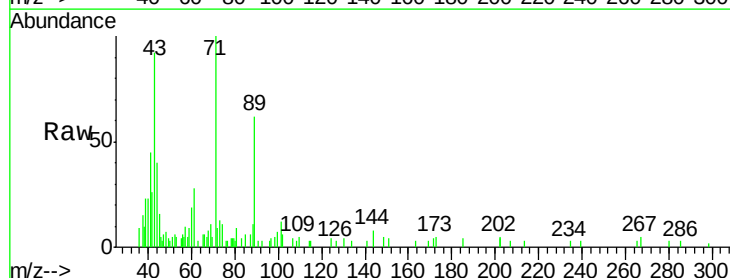
Instrument :
MSVOA_X
ClientSampleId :

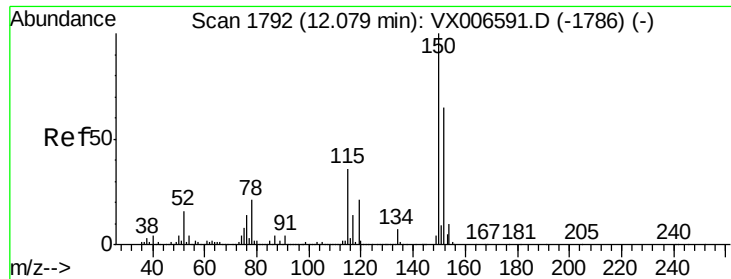
Tot Ion:117 Resp: 899693
Ion Ratio Lower Upper
117 100
82 52.4 41.0 61.6
119 32.3 25.4 38.0



#71
Bromoform
Concen: 4.484 ug/l
RT: 10.68 min Scan# 1562
Delta R.T. -0.18 min
Lab File: VX006936.D
Acq: 07 Jan 2019 15:28

Tgt Ion:173 Resp: 143
Ion Ratio Lower Upper
173 100
175 0.0 24.7 74.1#
254 20.3 0.2 0.2#



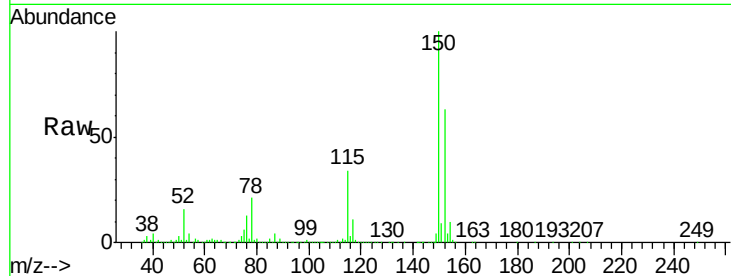


#72

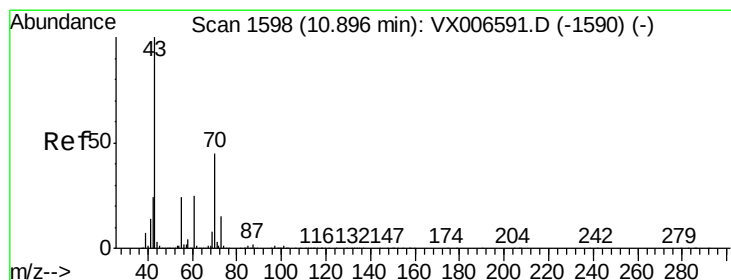
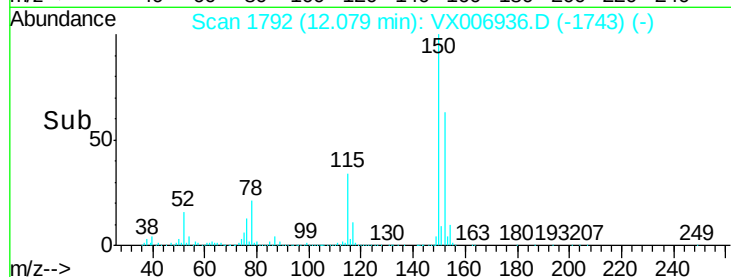
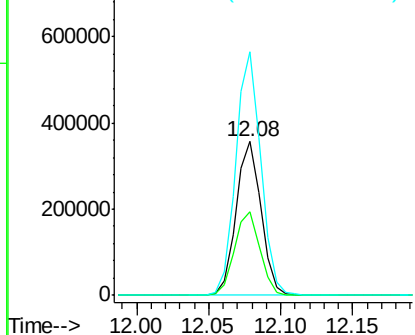
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX006936.D
Acq: 07 Jan 2019 15:28

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:152 Resp: 434756
Ion Ratio Lower Upper
152 100
115 55.8 39.1 117.2
150 157.9 0.0 344.8



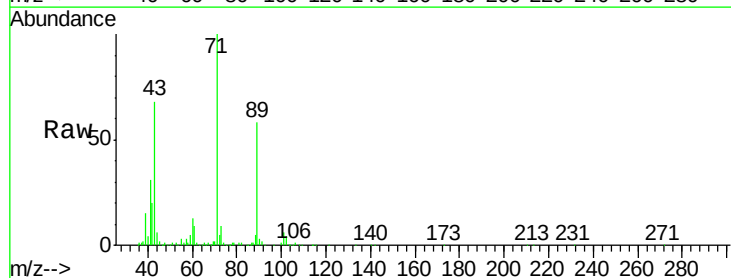
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



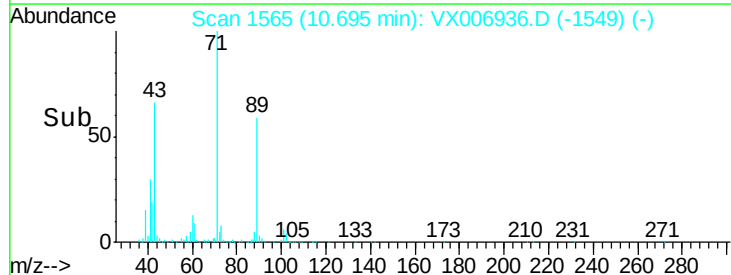
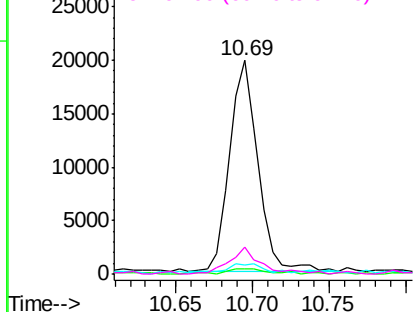
#74

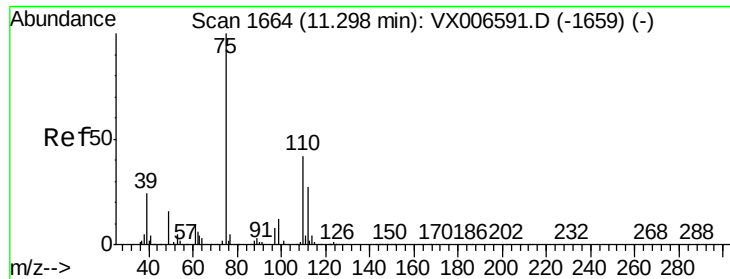
N-ethyl acetate
Concen: 2.414 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. -0.20 min
Lab File: VX006936.D
Acq: 07 Jan 2019 15:28

Tgt Ion: 43 Resp: 25696
Ion Ratio Lower Upper
43 100
70 3.3 35.8 53.8#
55 5.6 19.4 29.0#
61 13.9 20.1 30.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 70.00 (69.70 to 70.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 23.862 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006936.D

Acq: 07 Jan 2019 15:28

Instrument :

MSVOA_X

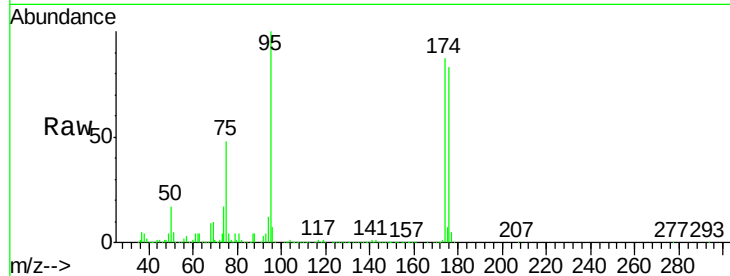
ClientSampleId :

Tot Ion: 75 Resp: 192798

Ion Ratio Lower Upper

75 100

77 1.5 18.5 55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

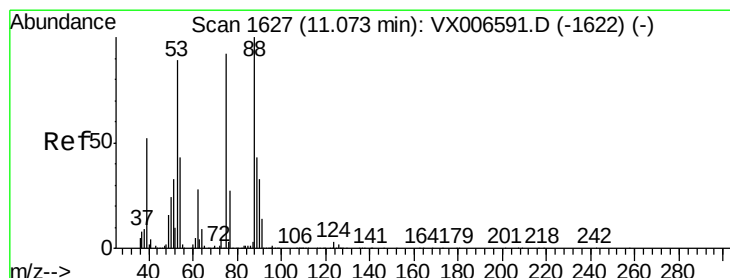
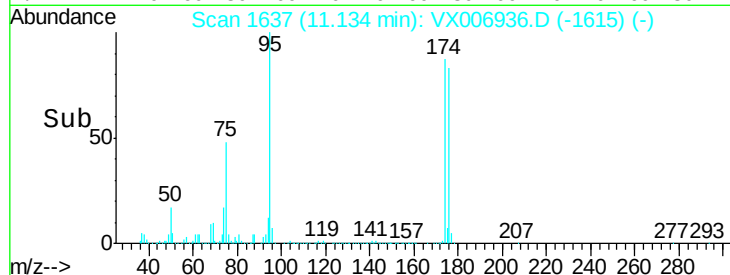
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 70.705 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006936.D

Acq: 07 Jan 2019 15:28

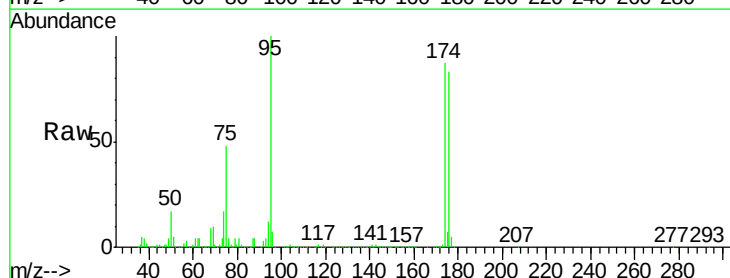
Tgt Ion: 75 Resp: 192798

Ion Ratio Lower Upper

75 100

53 0.2 79.7 119.5#

89 0.0 38.0 57.0#



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

11.13

200000

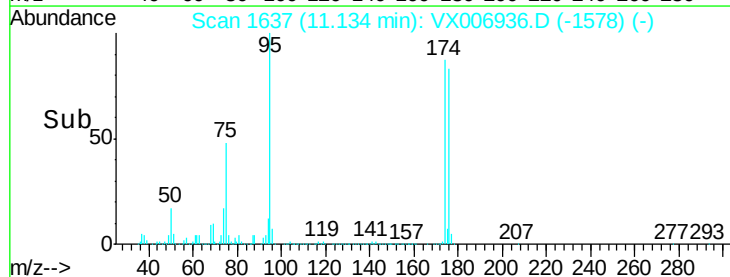
150000

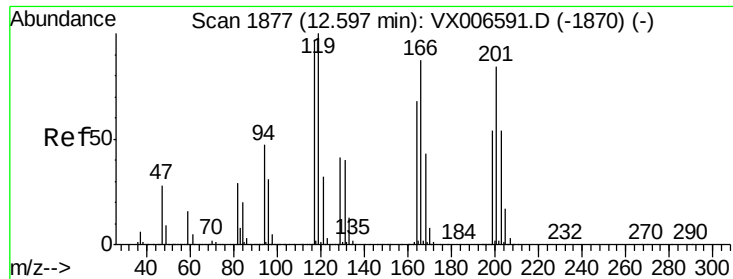
100000

50000

0

Time-->





#90

Hexachloroethane

Concen: 3.305 ug/l

RT: 12.82 min Scan# 1914

Delta R.T. 0.23 min

Lab File: VX006936.D

Acq: 07 Jan 2019 15:28

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:117 Resp: 52

Ion Ratio Lower Upper

117 100

201 78.8 42.9 128.7

