

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX012619\
 Data File : VX007235.D
 Acq On : 25 Jan 2019 18:02
 Operator : JC/SP
 Sample : PB116609ZHE#01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 28 00:16:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	554061	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	848402	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	818491	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	400270	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	293841	50.75	ug/l	0.00
Spiked Amount			Recovery	=	101.50%	
35) Dibromofluoromethane	5.50	113	264635	48.71	ug/l	0.00
Spiked Amount			Recovery	=	97.42%	
50) Toluene-d8	8.71	98	1051321	52.87	ug/l	0.00
Spiked Amount			Recovery	=	105.74%	
62) 4-Bromofluorobenzene	11.13	95	373045	53.81	ug/l	0.00
Spiked Amount			Recovery	=	107.62%	

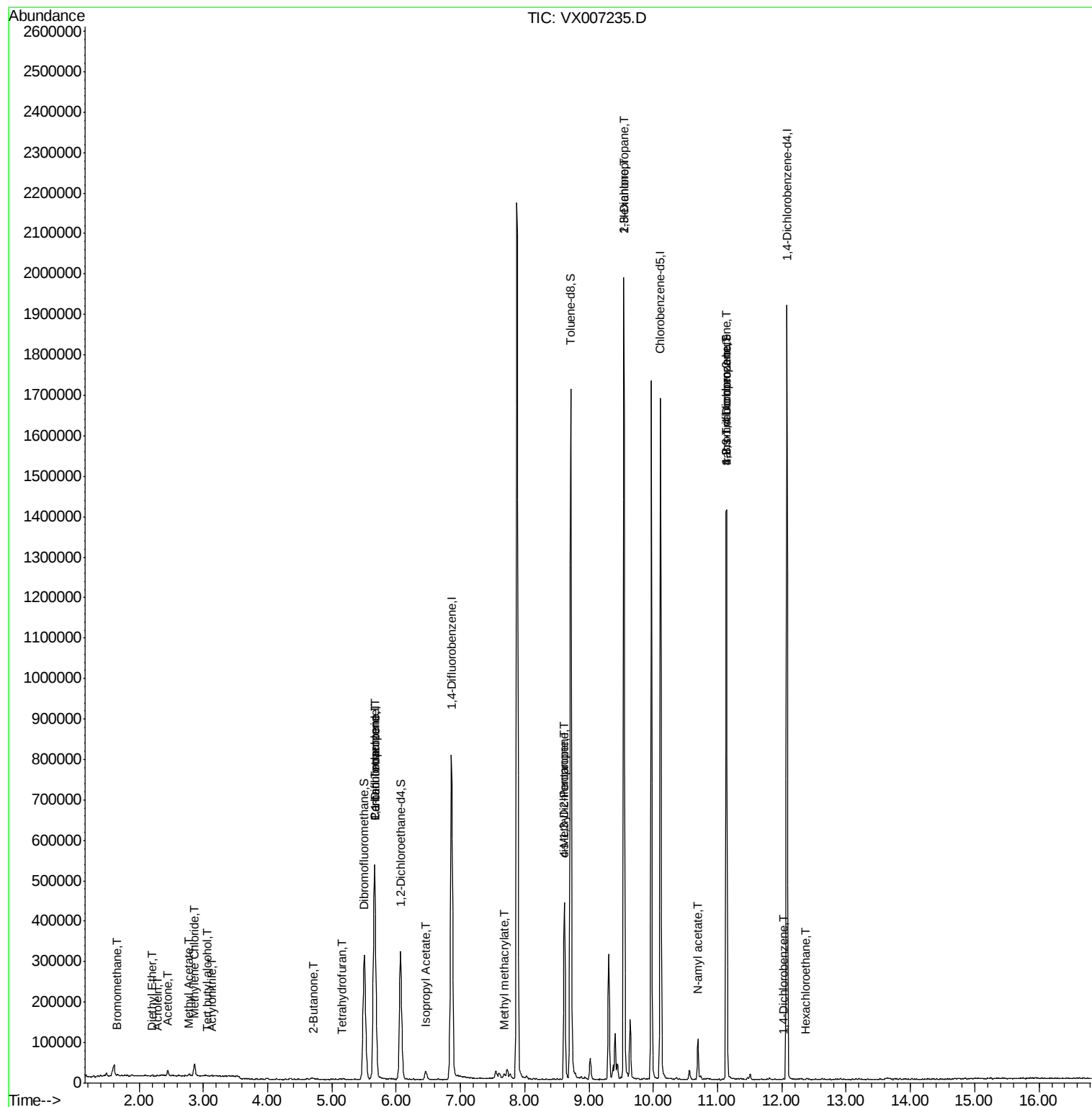
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1367	0.225	ug/l	94
8) Diethyl Ether	2.19	74	1174	0.321	ug/l	53
11) Tert butyl alcohol	3.06	59	2048	1.499	ug/l #	82
13) Acrolein	2.28	56	155	3.344	ug/l #	1
15) Acrylonitrile	3.12	53	777	0.248	ug/l #	58
16) Acetone	2.45	43	14173	4.951	ug/l	100
18) Methyl Acetate	2.78	43	6805	0.821	ug/l #	73
20) Methylene Chloride	2.86	84	15247	2.260	ug/l	99
25) 2-Butanone	4.71	43	5084	1.241	ug/l #	69
29) Tetrahydrofuran	5.15	42	1808	0.679	ug/l #	77
36) 1,1-Dichloropropene	5.66	75	34713	4.706	ug/l #	50
38) Carbon Tetrachloride	5.66	117	49665	6.692	ug/l #	14
43) Isopropyl Acetate	6.46	43	27403	2.197	ug/l	99
48) Methyl methacrylate	7.68	41	16538	2.582	ug/l #	13
49) 1,4-Dioxane	7.76	88	332	Below Cal	#	39
51) 4-Methyl-2-Pentanone	8.62	43	147794	18.437	ug/l #	48
54) cis-1,3-Dichloropropene	8.62	75	71568	8.634	ug/l #	66
57) 1,3-Dichloropropane	9.54	76	17193	1.812	ug/l #	44
59) 2-Hexanone	9.54	43	218121	35.706	ug/l #	51
74) N-amyl acetate	10.69	43	23146	2.037	ug/l #	54
76) 1,2,3-Trichloropropane	11.13	75	177911	21.934	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	177911	64.968	ug/l #	10
88) 1,4-Dichlorobenzene	12.03	146	766	0.202	ug/l	92
90) Hexachloroethane	12.38	117	86	2.928	ug/l	90

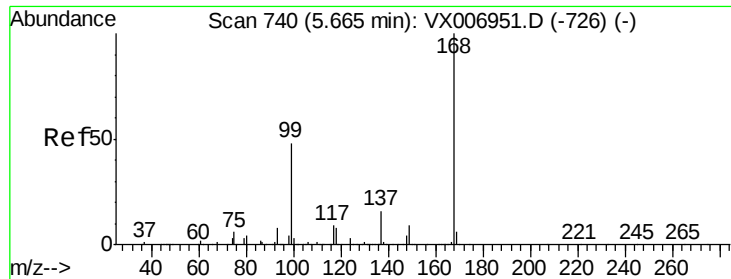
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 08 14:06:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX007235.D

Acq: 25 Jan 2019 18:02

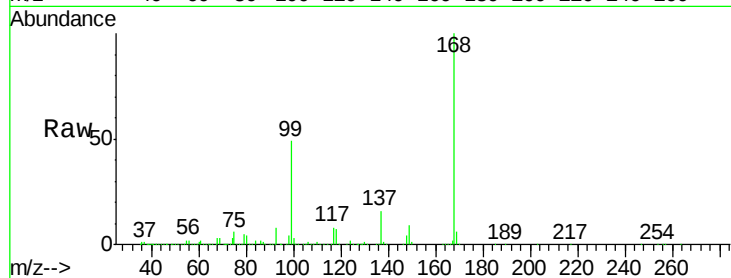
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 554061

Ion Ratio Lower Upper

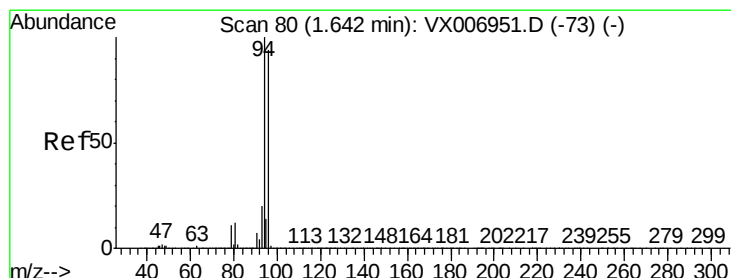
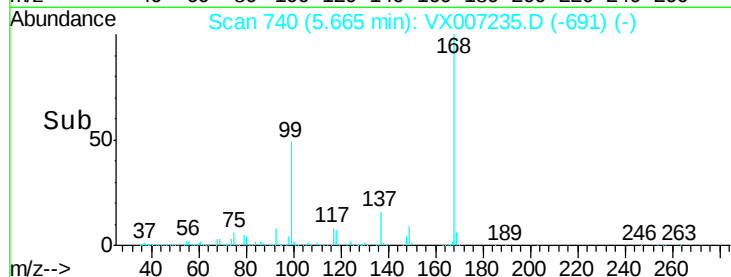
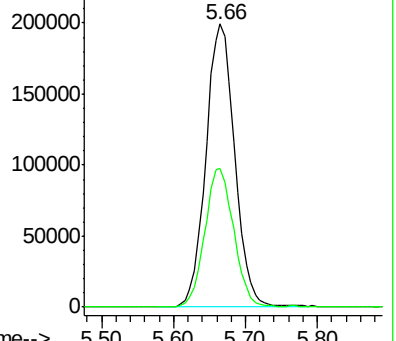
168 100

99 48.8 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.225 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX007235.D

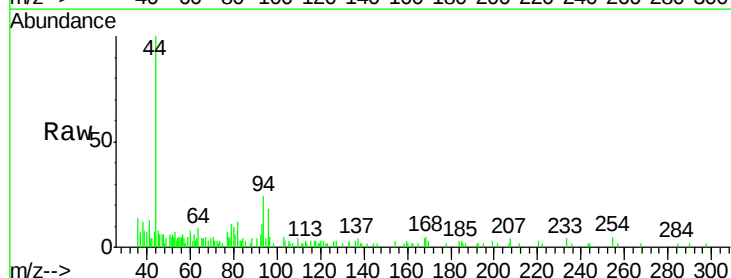
Acq: 25 Jan 2019 18:02

Tgt Ion: 94 Resp: 1367

Ion Ratio Lower Upper

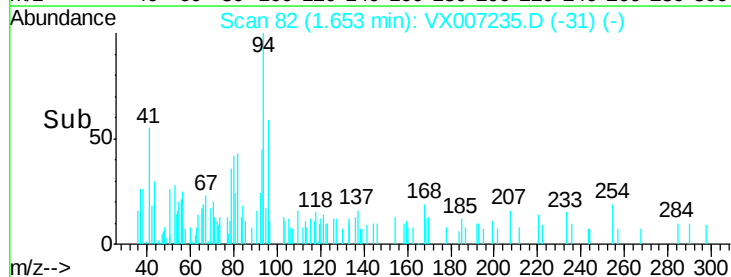
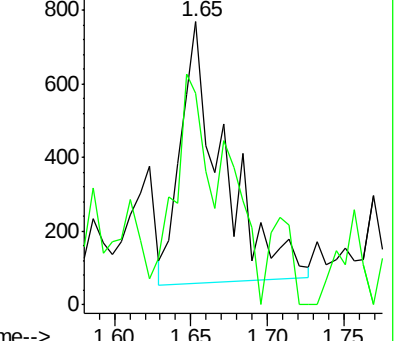
94 100

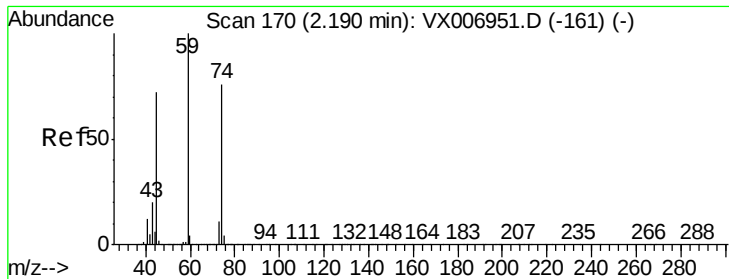
96 86.1 73.4 110.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#8

Diethyl Ether

Concen: 0.321 ug/l

RT: 2.19 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX007235.D

Acq: 25 Jan 2019 18:02

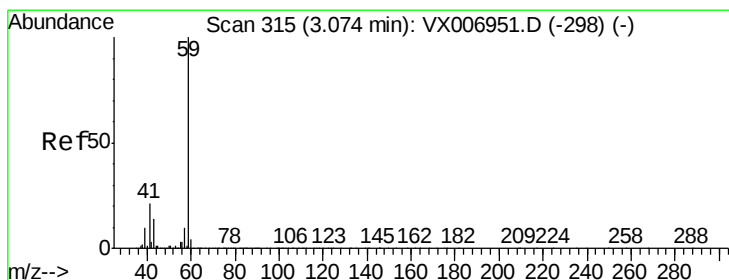
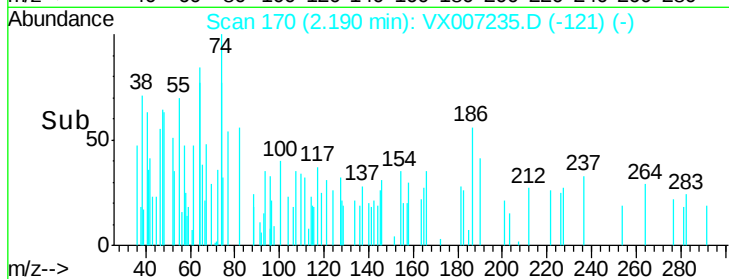
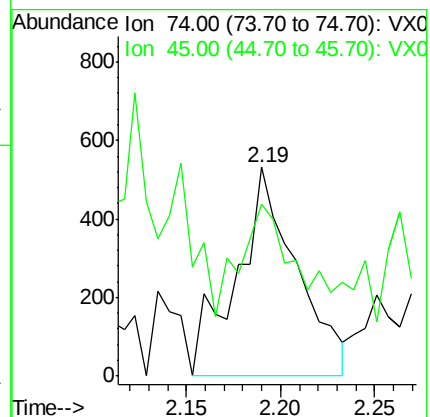
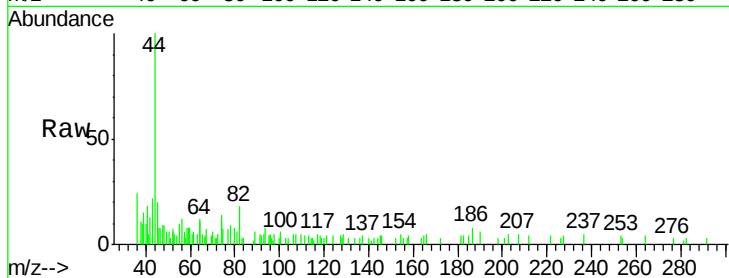
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 74 Resp: 1174

Ion Ratio Lower Upper

74 100

45 47.8 46.3 138.9



#11

Tert butyl alcohol

Concen: 1.499 ug/l

RT: 3.06 min Scan# 313

Delta R.T. -0.01 min

Lab File: VX007235.D

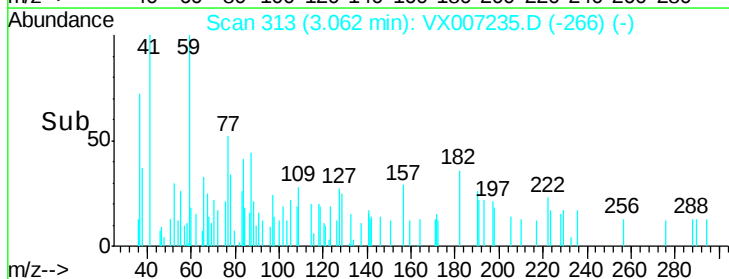
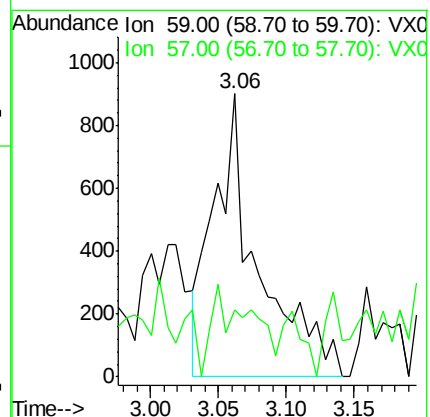
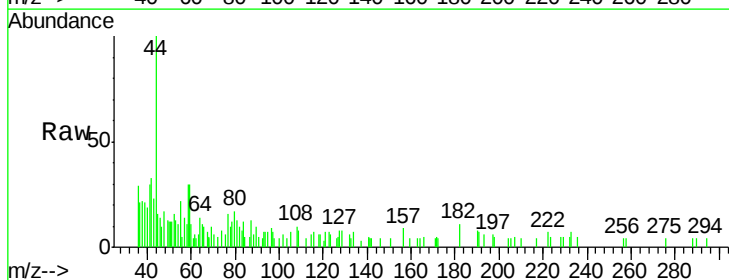
Acq: 25 Jan 2019 18:02

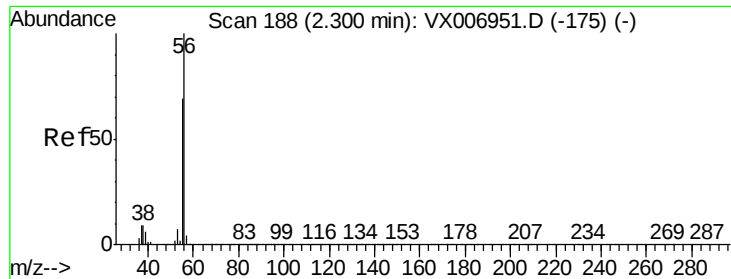
Tgt Ion: 59 Resp: 2048

Ion Ratio Lower Upper

59 100

57 17.5 8.5 12.7#





#13

Acrolein

Concen: 3.344 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.02 min

Lab File: VX007235.D

Acq: 25 Jan 2019 18:02

Instrument :

MSVOA_X

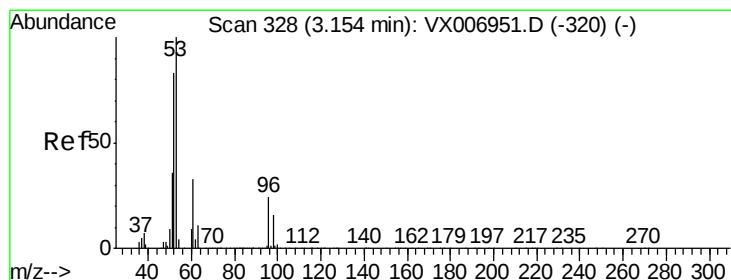
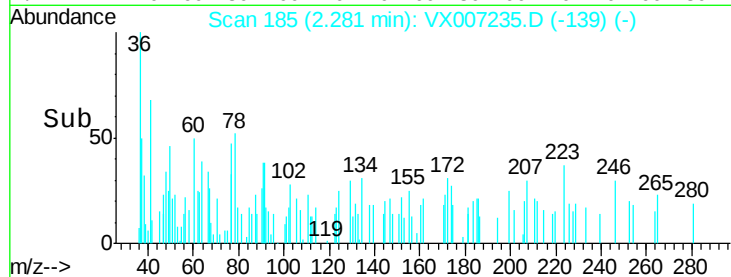
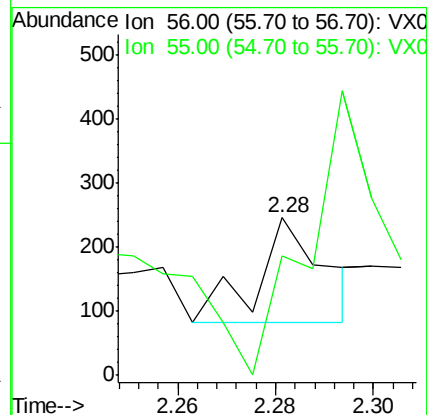
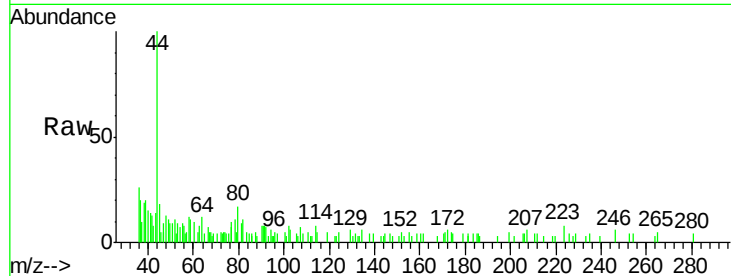
ClientSampled :

Tot Ion: 56 Resp: 155

Ion Ratio Lower Upper

56 100

55 389.7 58.2 87.4#



#15

Acrylonitrile

Concen: 0.248 ug/l

RT: 3.12 min Scan# 323

Delta R.T. -0.03 min

Lab File: VX007235.D

Acq: 25 Jan 2019 18:02

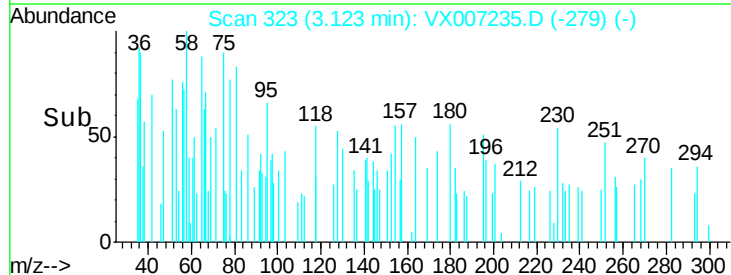
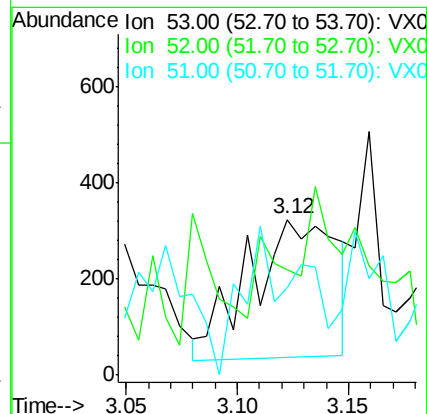
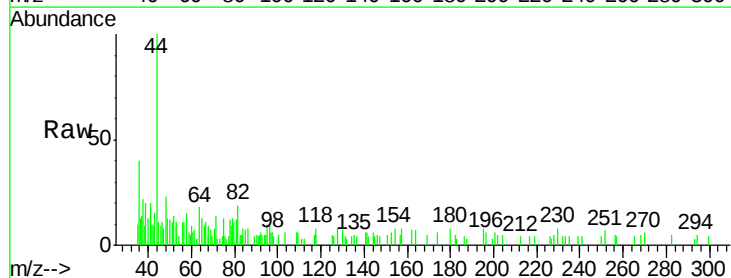
Tgt Ion: 53 Resp: 777

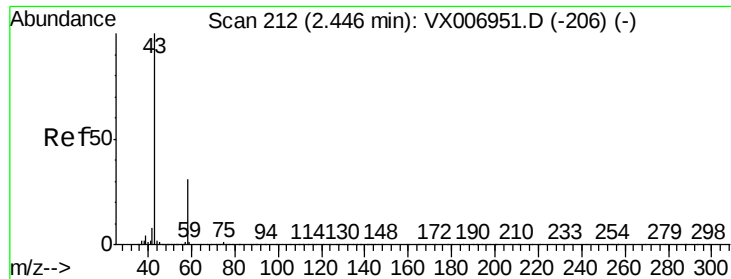
Ion Ratio Lower Upper

53 100

52 34.7 66.0 99.0#

51 46.1 28.6 42.8#

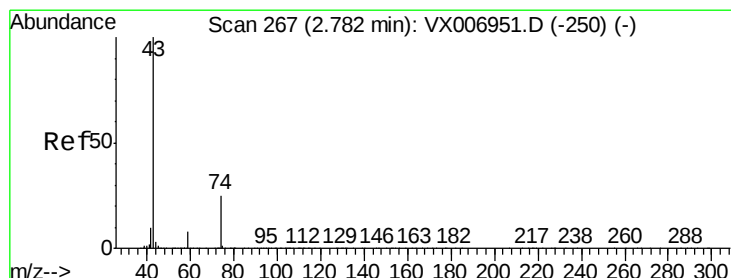
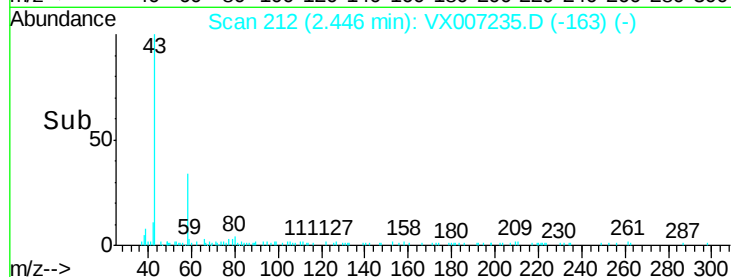
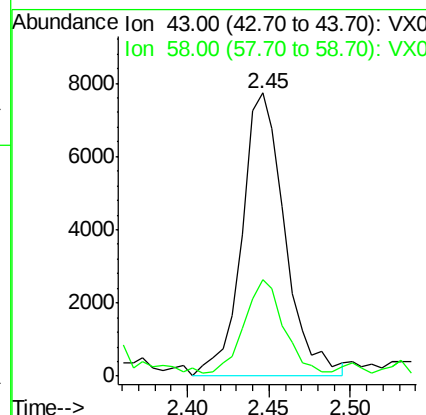
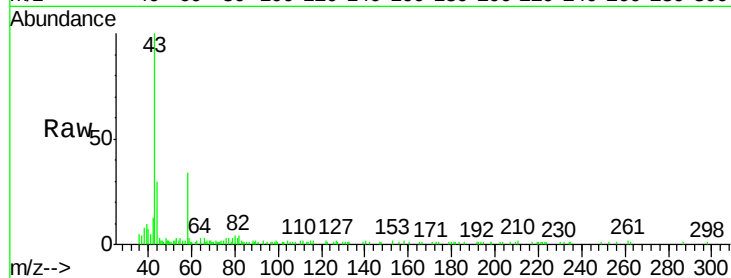




#16
Acetone
Concen: 4.951 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX007235.D
Acq: 25 Jan 2019 18:02

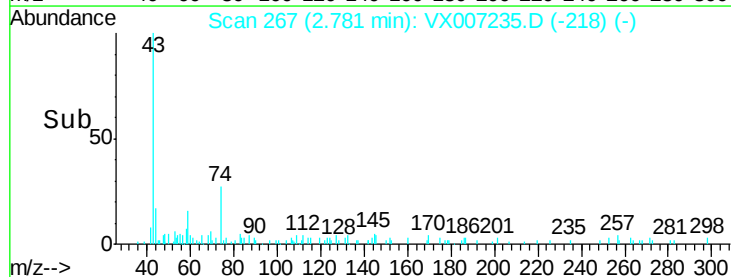
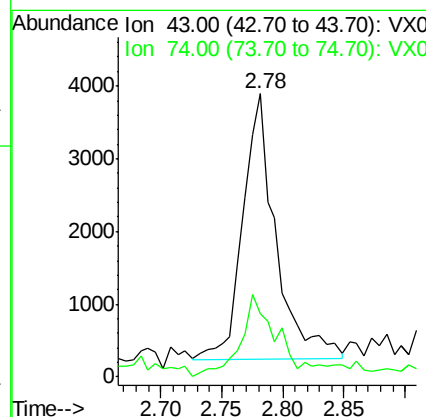
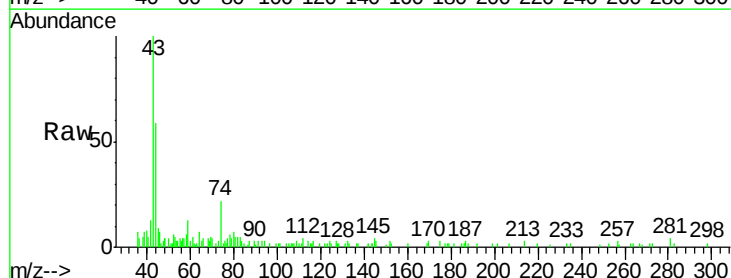
Instrument :
MSVOA_X
ClientSampleId :

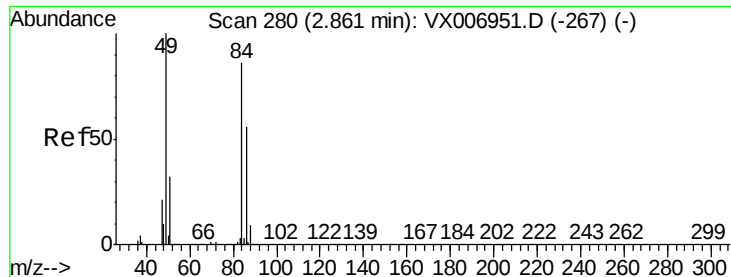
Tot Ion: 43 Resp: 14173
Ion Ratio Lower Upper
43 100
58 31.4 25.0 37.6



#18
Methyl Acetate
Concen: 0.821 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX007235.D
Acq: 25 Jan 2019 18:02

Tgt Ion: 43 Resp: 6805
Ion Ratio Lower Upper
43 100
74 36.5 18.6 28.0#

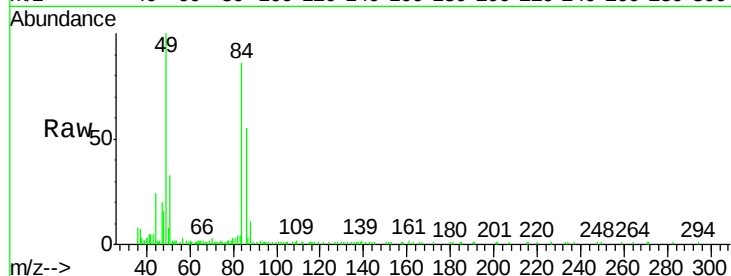




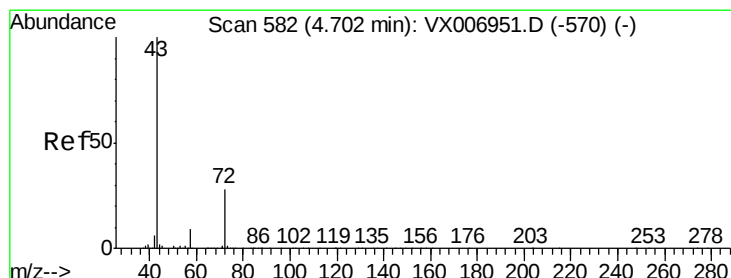
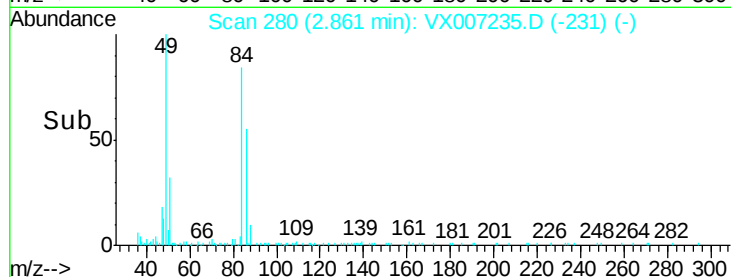
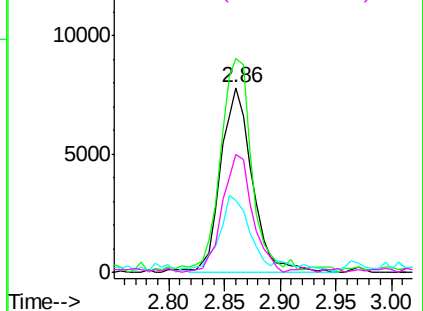
#20
Methvlene Chloride
Concen: 2.260 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007235.D
Acq: 25 Jan 2019 18:02

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
84	100		
49	115.6	91.8	137.6
51	37.6	28.5	42.7
86	63.0	50.2	75.2

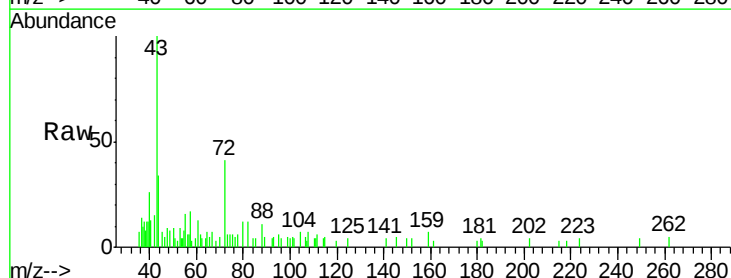


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

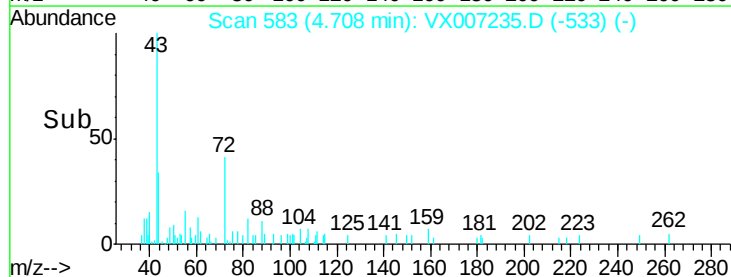
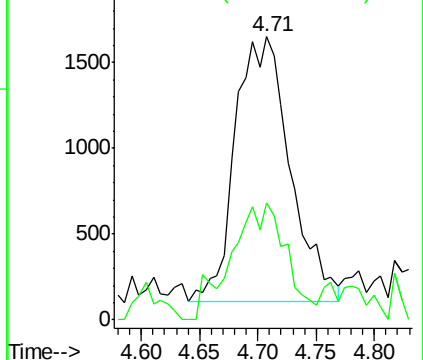


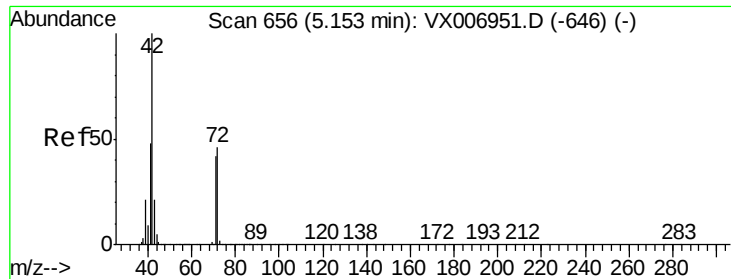
#25
2-Butanone
Concen: 1.241 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX007235.D
Acq: 25 Jan 2019 18:02

Tgt Ion	Ratio	Lower	Upper
43	100		
72	44.2	22.4	33.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.679 ug/l

RT: 5.15 min Scan# 656

Delta R.T. -0.00 min

Lab File: VX007235.D

Acq: 25 Jan 2019 18:02

Instrument :

MSVOA_X

ClientSampled :

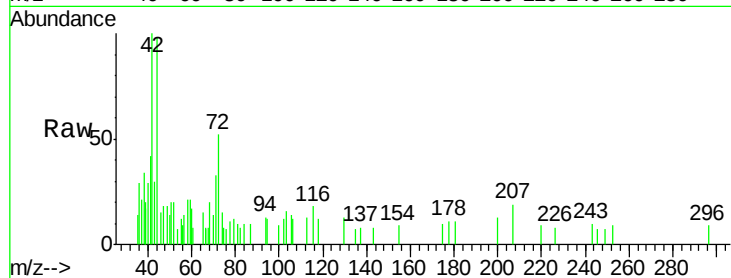
Tot Ion: 42 Resp: 1808

Ion Ratio Lower Upper

42 100

72 26.7 38.9 58.3#

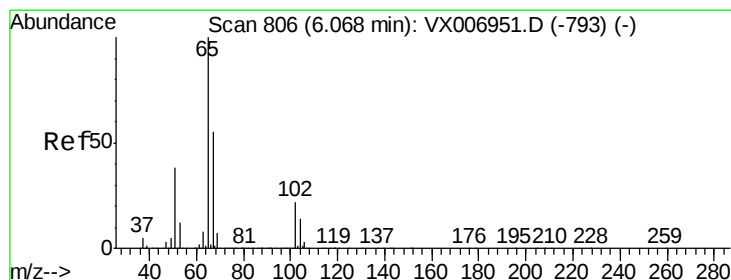
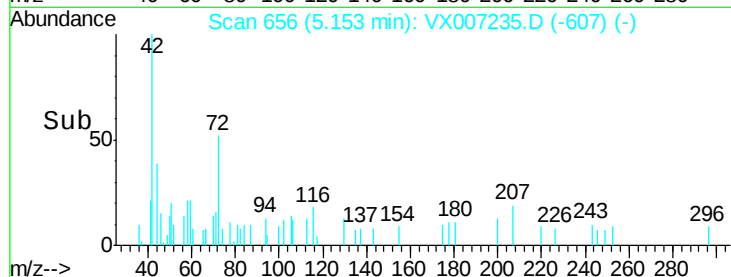
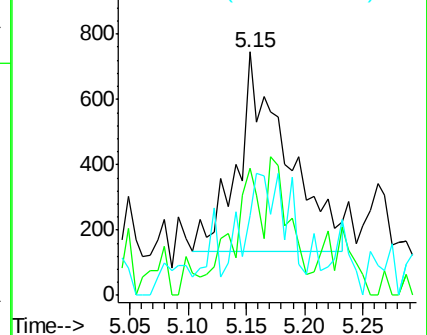
71 54.2 36.2 54.4



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 50.746 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007235.D

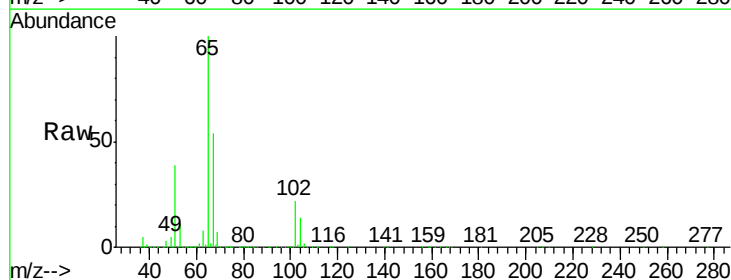
Acq: 25 Jan 2019 18:02

Tgt Ion: 65 Resp: 293841

Ion Ratio Lower Upper

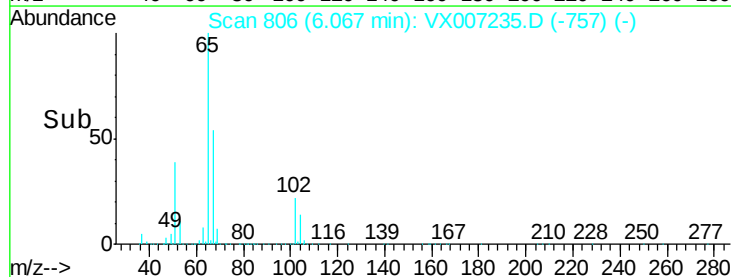
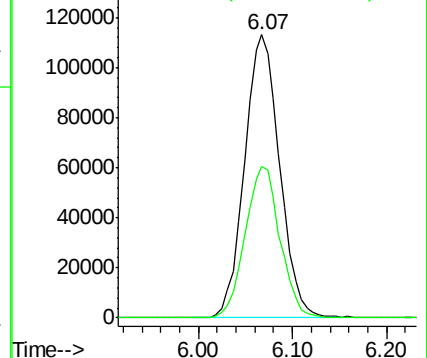
65 100

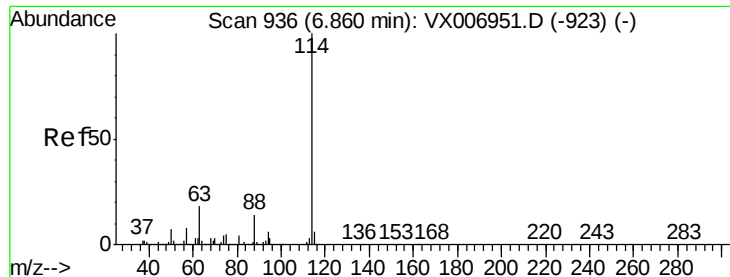
67 53.4 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007235.D

Acq: 25 Jan 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

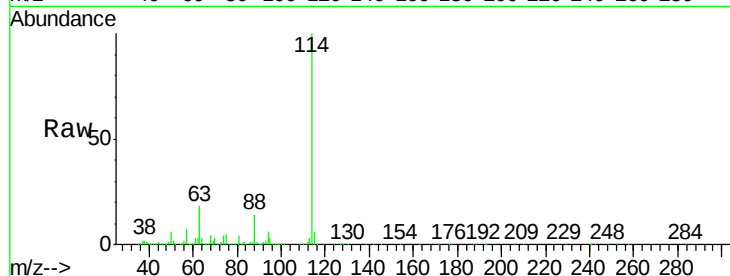
Tot Ion:114 Resp: 848402

Ion Ratio Lower Upper

114 100

63 18.2 0.0 34.8

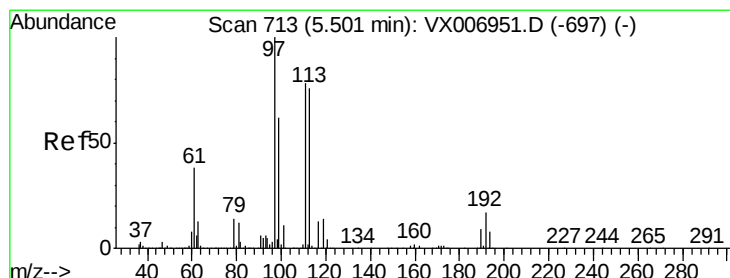
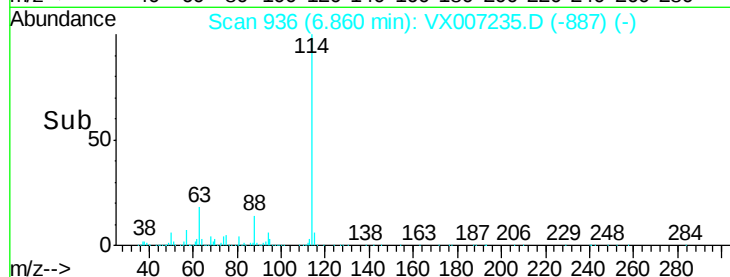
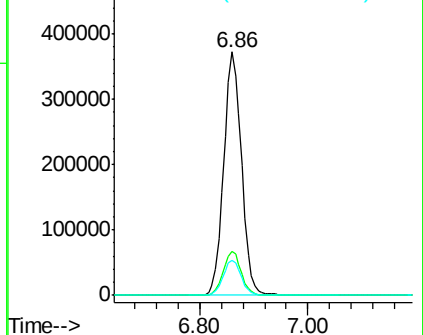
88 14.1 0.0 28.8



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: 48.708 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX007235.D

Acq: 25 Jan 2019 18:02

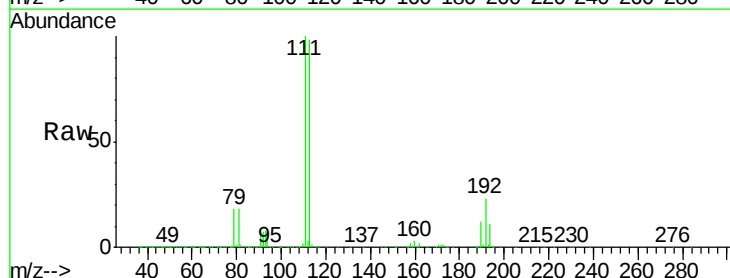
Tgt Ion:113 Resp: 264635

Ion Ratio Lower Upper

113 100

111 100.4 81.6 122.4

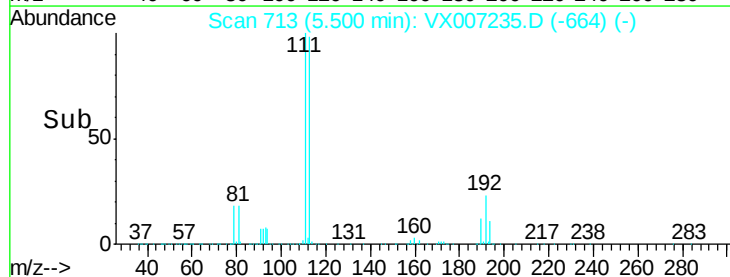
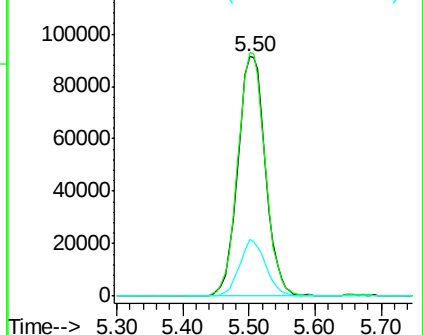
192 22.3 16.7 25.1

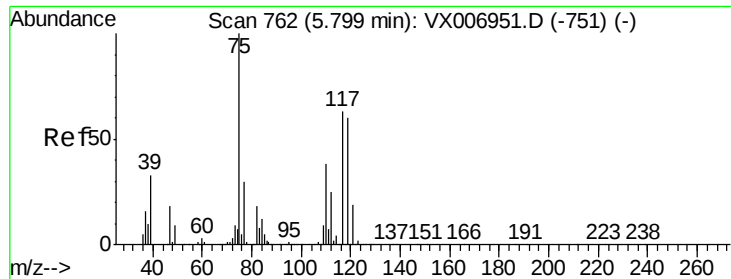


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

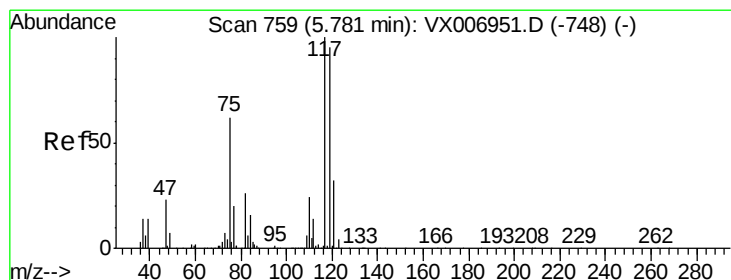
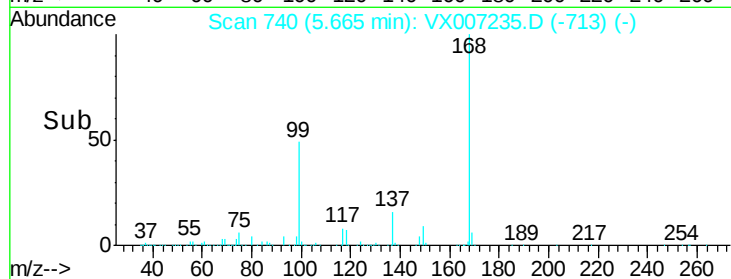
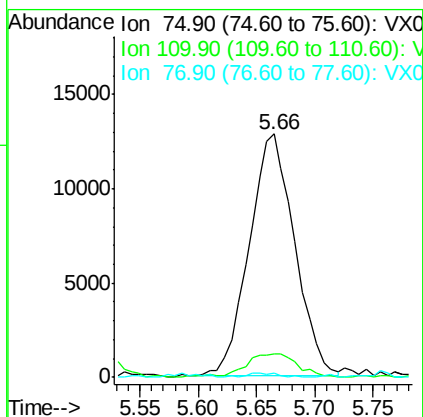
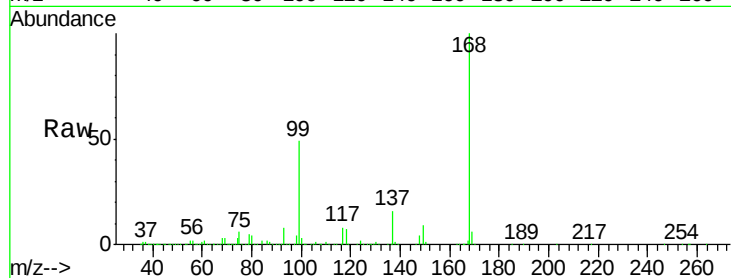




#36
 1,1-Dichloropropene
 Concen: 4.706 ug/l
 RT: 5.66 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX007235.D
 Acq: 25 Jan 2019 18:02

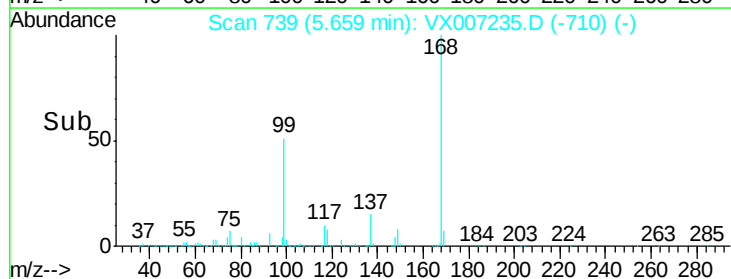
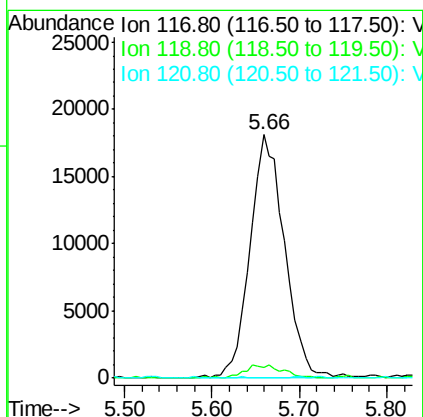
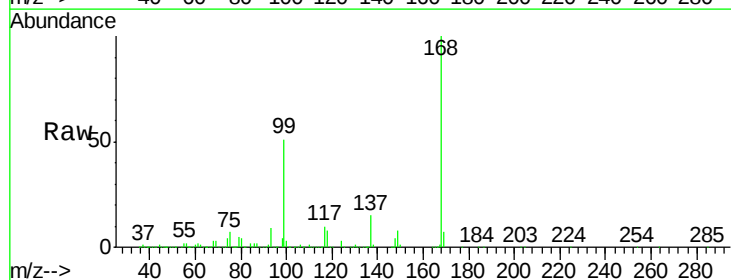
Instrument :
 MSVOA_X
 ClientSampleId :

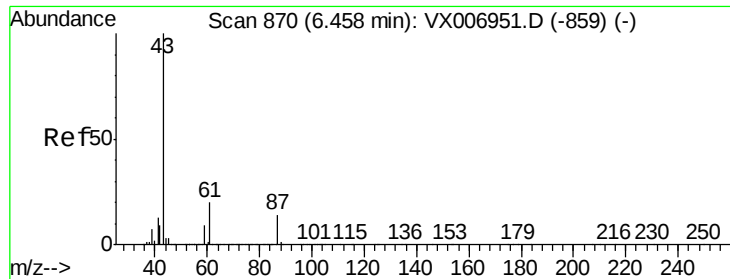
Tot Ion: 75 Resp: 34713
 Ion Ratio Lower Upper
 75 100
 110 11.4 20.2 60.5#
 77 1.2 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 6.692 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX007235.D
 Acq: 25 Jan 2019 18:02

Tgt Ion: 117 Resp: 49665
 Ion Ratio Lower Upper
 117 100
 119 4.1 79.4 119.2#
 121 0.0 24.0 36.0#





#43

Isopropyl Acetate

Concen: 2.197 ug/l

RT: 6.46 min Scan# 870

Delta R.T. -0.00 min

Lab File: VX007235.D

Acq: 25 Jan 2019 18:02

Instrument :

MSVOA_X

ClientSampled :

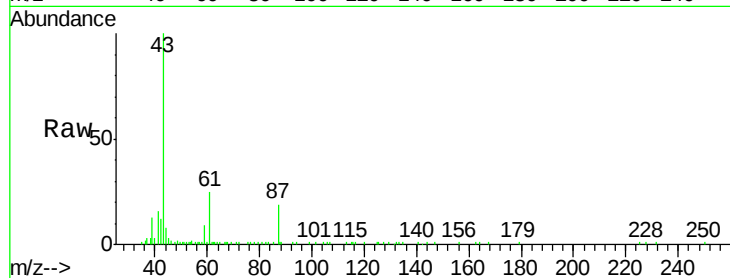
Tot Ion: 43 Resp: 27403

Ion Ratio Lower Upper

43 100

61 21.4 16.8 25.2

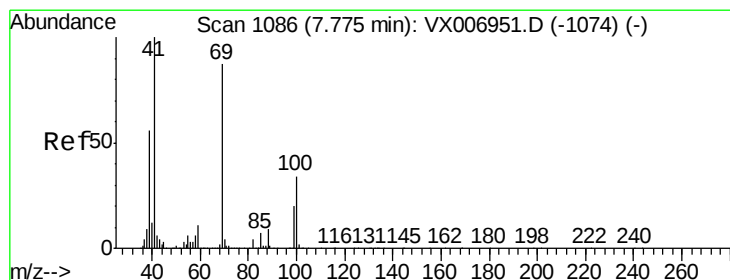
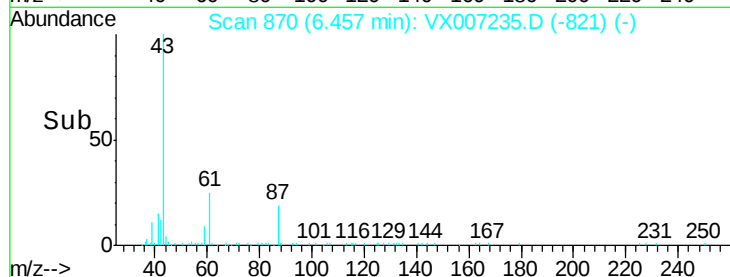
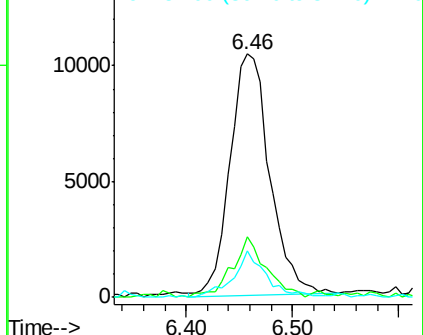
87 15.8 12.4 18.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 2.582 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX007235.D

Acq: 25 Jan 2019 18:02

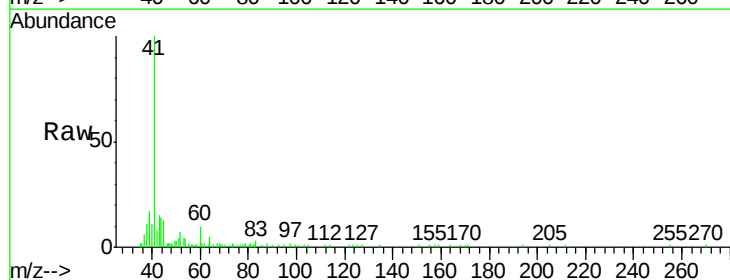
Tgt Ion: 41 Resp: 16538

Ion Ratio Lower Upper

41 100

69 2.3 72.4 108.6#

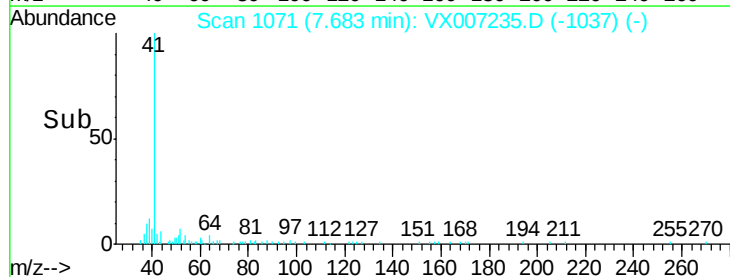
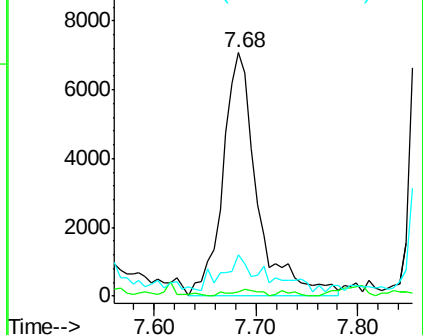
39 0.0 45.8 68.8#

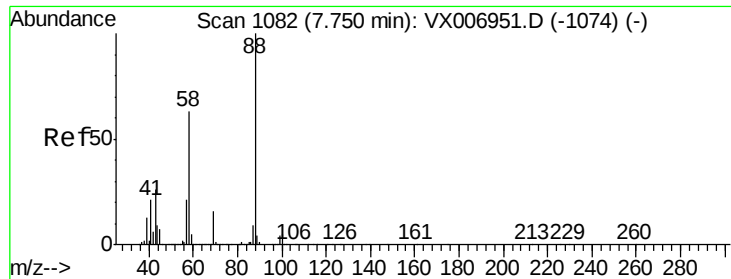


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX007235.D

Acq: 25 Jan 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

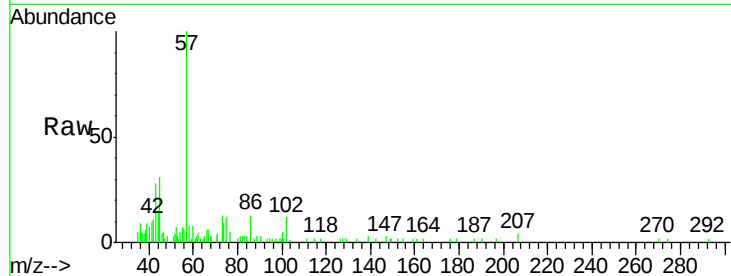
Tot Ion: 88 Resp: 332

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

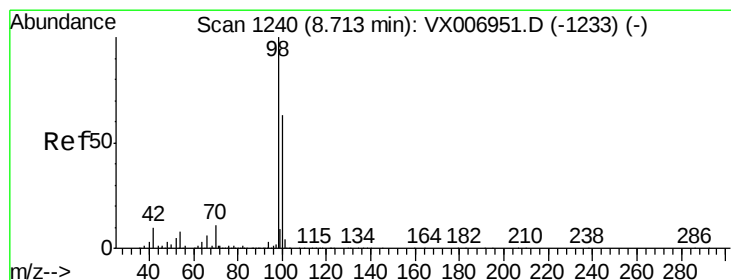
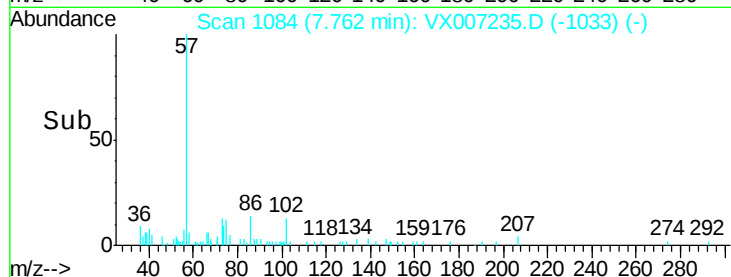
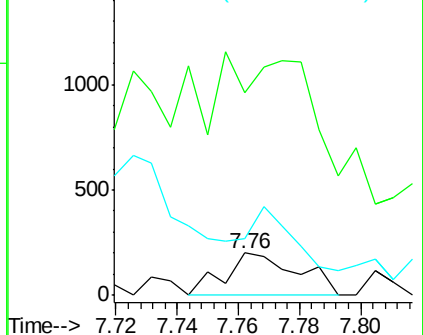
58 114.5 51.0 76.4#



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: 52.865 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007235.D

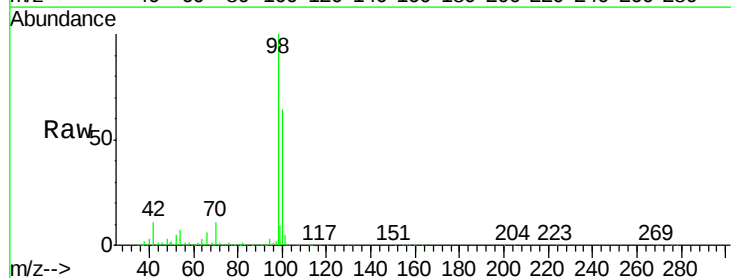
Acq: 25 Jan 2019 18:02

Tgt Ion: 98 Resp: 1051321

Ion Ratio Lower Upper

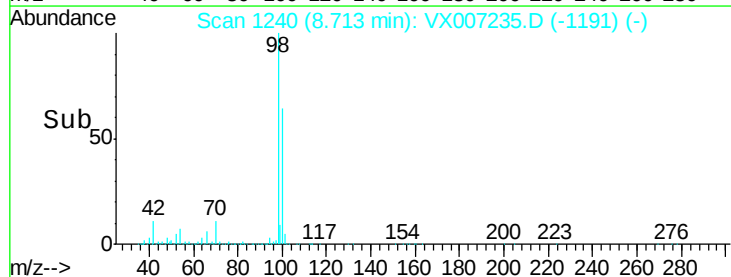
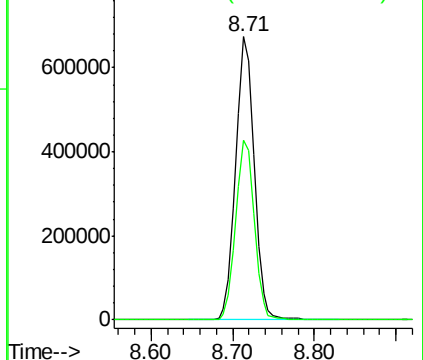
98 100

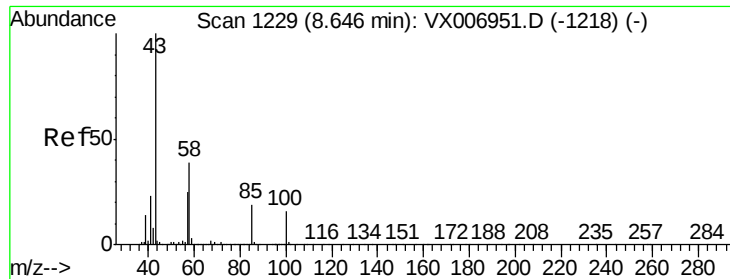
100 63.9 52.0 78.0



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: 18.437 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007235.D

Acq: 25 Jan 2019 18:02

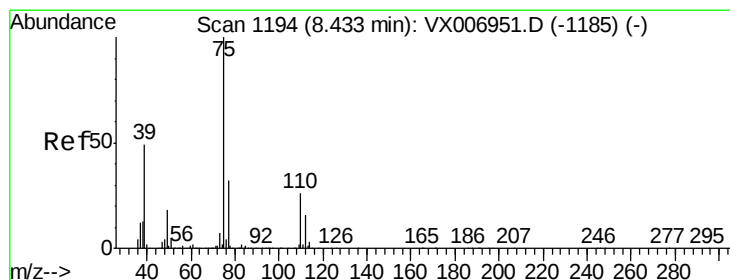
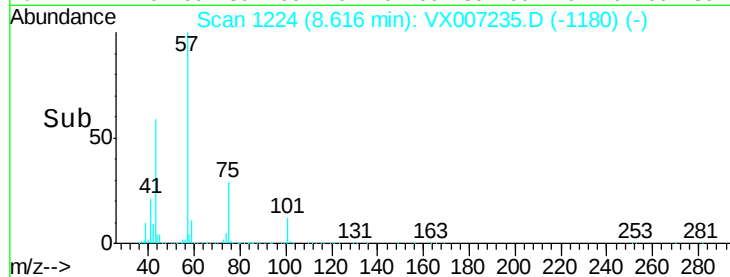
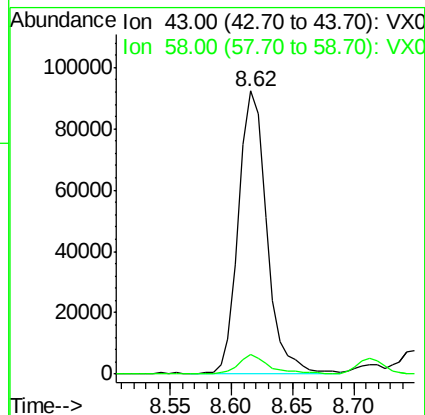
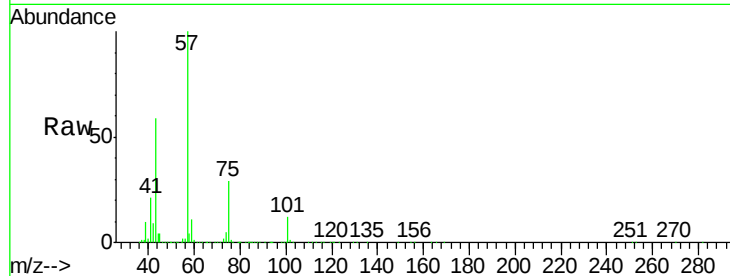
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 147794

Ion Ratio Lower Upper

43 100

58 7.5 31.8 47.6#



#54

cis-1,3-Dichloropropene

Concen: 8.634 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007235.D

Acq: 25 Jan 2019 18:02

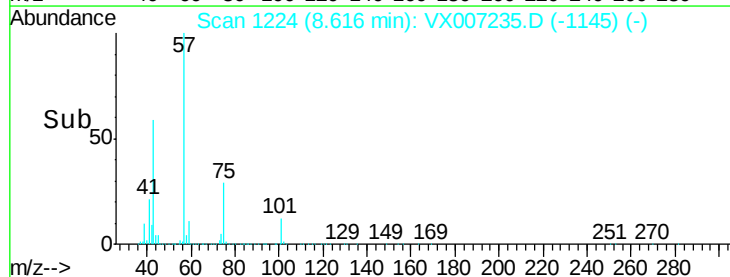
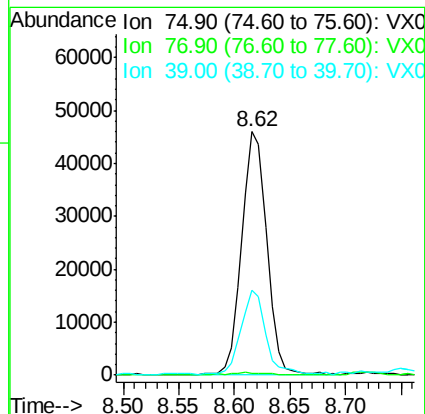
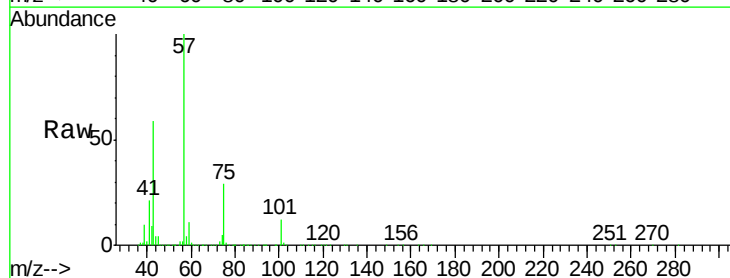
Tgt Ion: 75 Resp: 71568

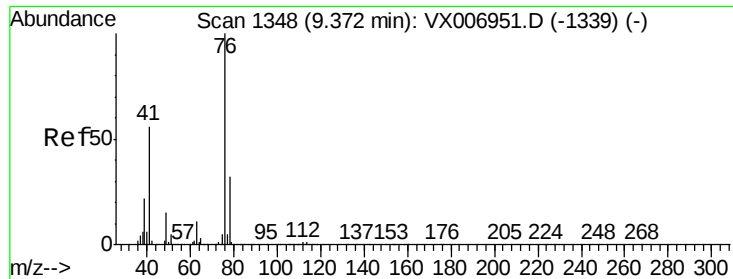
Ion Ratio Lower Upper

75 100

77 0.4 26.2 39.2#

39 34.1 36.7 55.1#





#57

1,3-Dichloropropane

Concen: 1.812 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007235.D

Acq: 25 Jan 2019 18:02

Instrument :

MSVOA_X

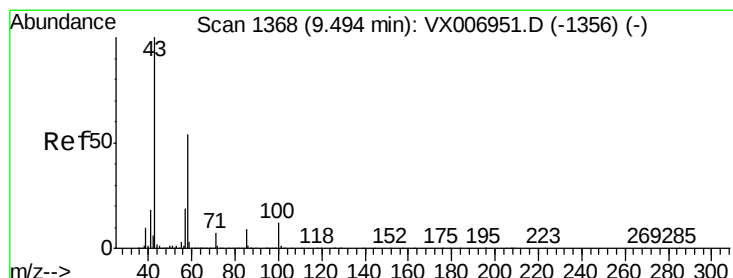
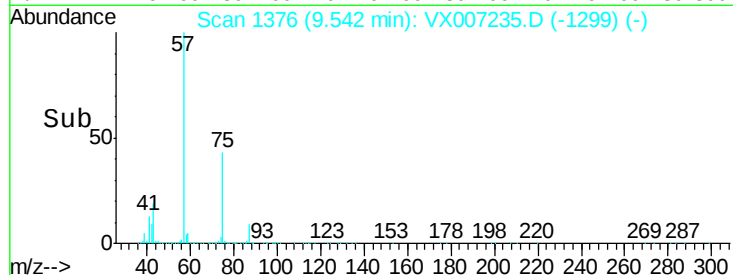
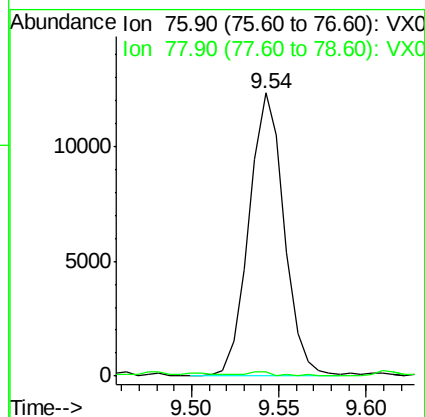
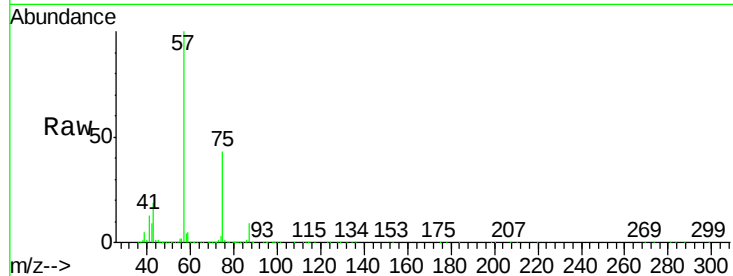
ClientSampled :

Tot Ion: 76 Resp: 17193

Ion Ratio Lower Upper

76 100

78 1.3 26.0 39.0#



#59

2-Hexanone

Concen: 35.706 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX007235.D

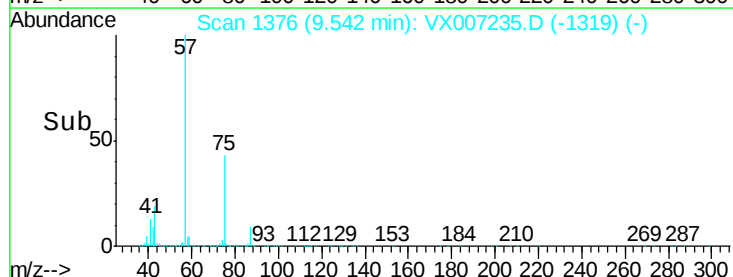
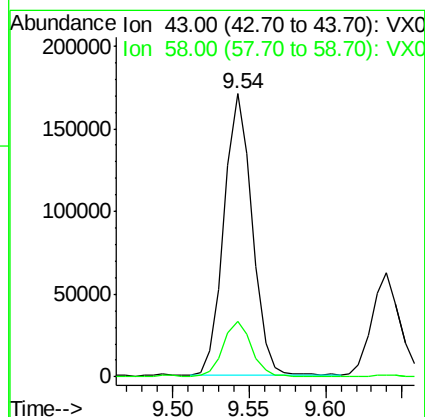
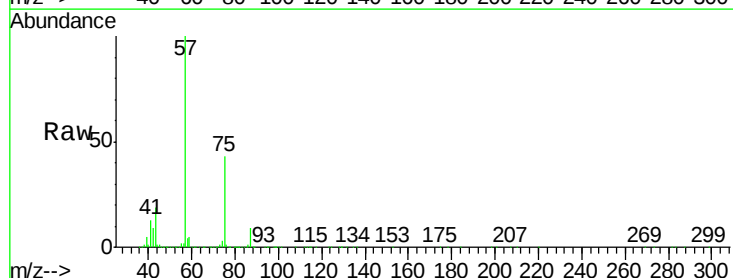
Acq: 25 Jan 2019 18:02

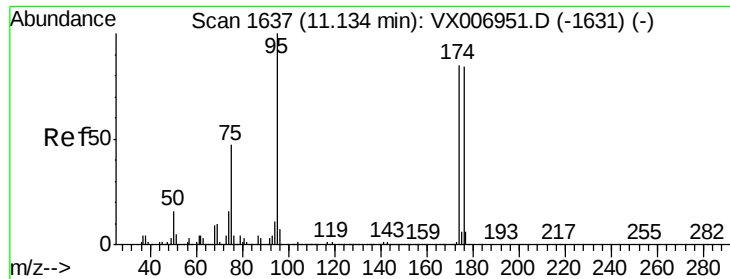
Tgt Ion: 43 Resp: 218121

Ion Ratio Lower Upper

43 100

58 20.1 27.7 83.1#





#62

4-Bromofluorobenzene

Concen: 53.807 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007235.D

Acq: 25 Jan 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

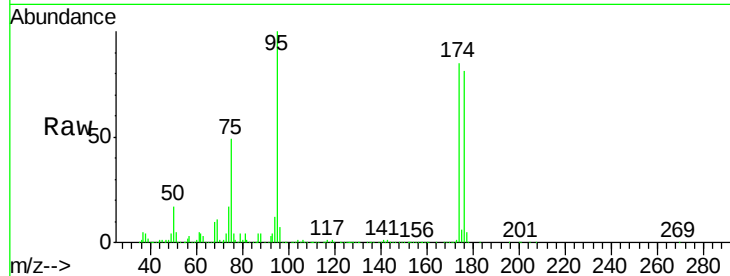
Tot Ion: 95 Resp: 373045

Ion Ratio Lower Upper

95 100

174 92.6 0.0 182.2

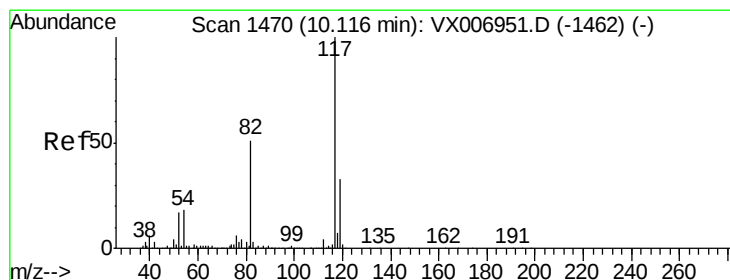
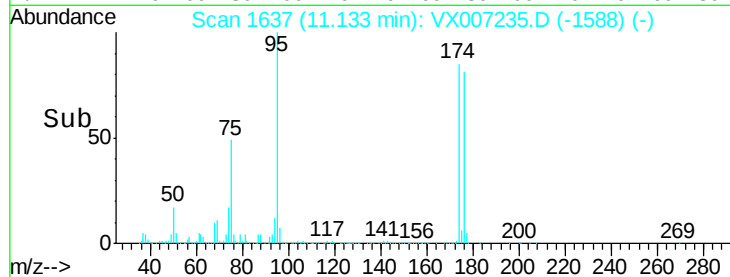
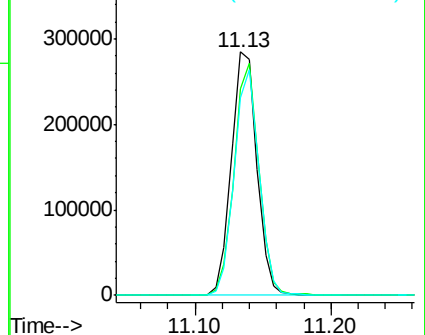
176 90.1 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VX006951.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX006951.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX006951.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX007235.D

Acq: 25 Jan 2019 18:02

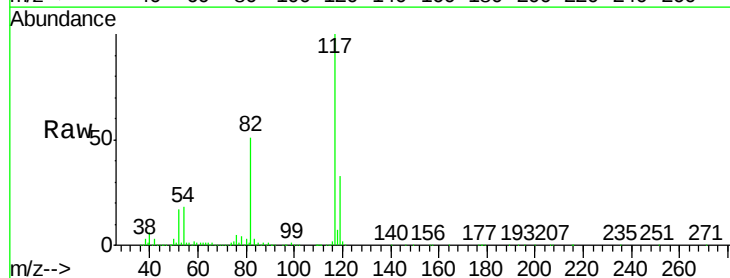
Tgt Ion: 117 Resp: 818491

Ion Ratio Lower Upper

117 100

82 50.8 41.0 61.6

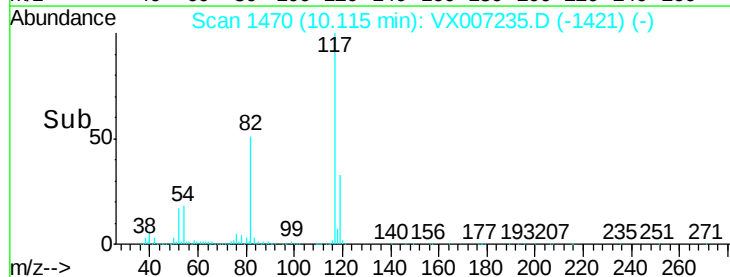
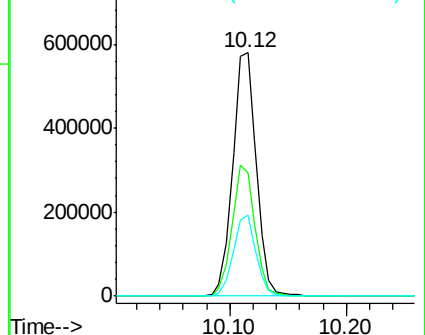
119 33.3 25.4 38.0

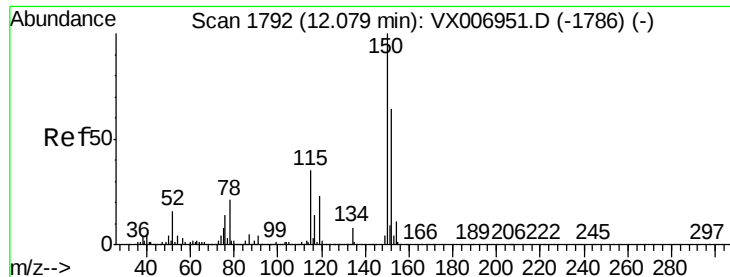


Abundance Ion 116.90 (116.60 to 117.60): VX006951.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX006951.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX006951.D (-1462) (-)



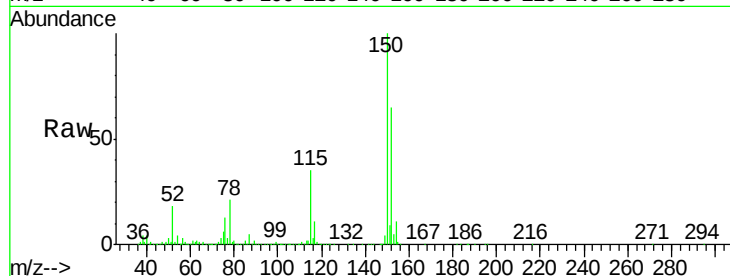


#72

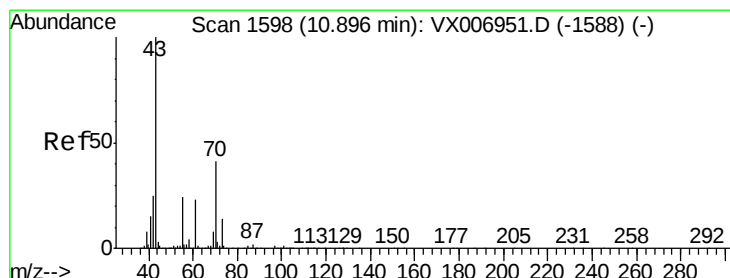
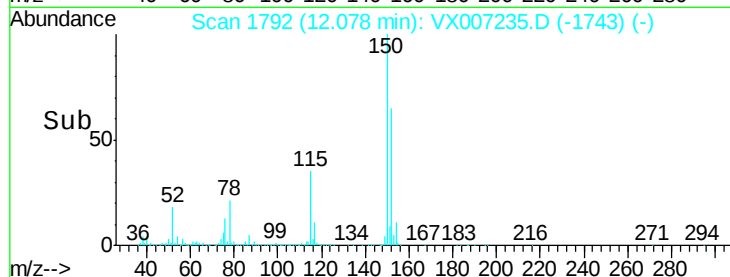
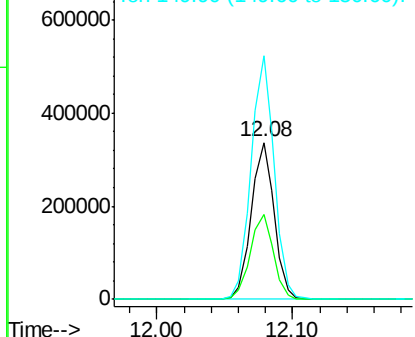
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX007235.D
Acq: 25 Jan 2019 18:02

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	54.7	39.1	117.2
150	155.9	0.0	344.8



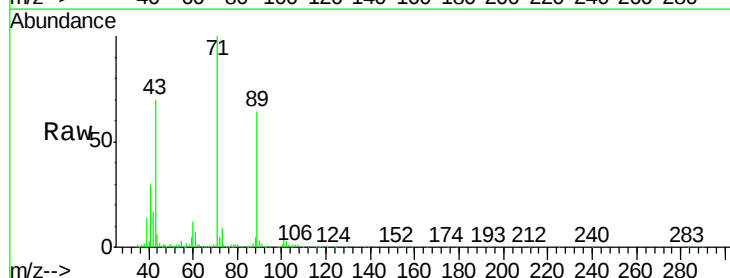
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



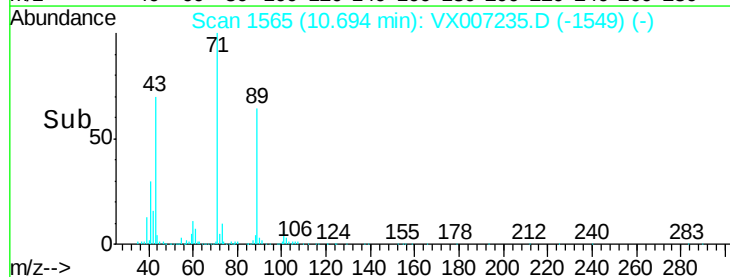
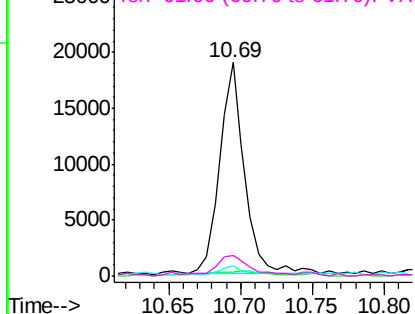
#74

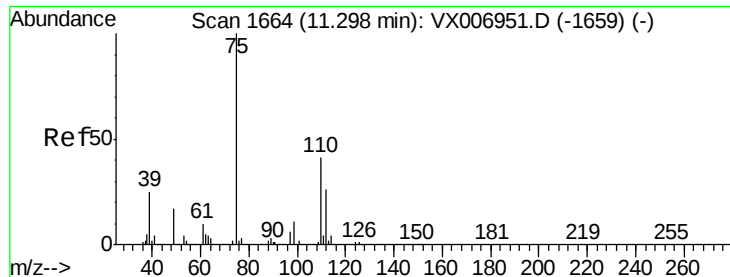
N-ethyl acetate
Concen: 2.037 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. -0.20 min
Lab File: VX007235.D
Acq: 25 Jan 2019 18:02

Tgt Ion	Ratio	Lower	Upper
43	100		
70	5.8	35.8	53.8#
55	5.6	19.4	29.0#
61	10.7	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: 21.934 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007235.D

Acq: 25 Jan 2019 18:02

Instrument :

MSVOA_X

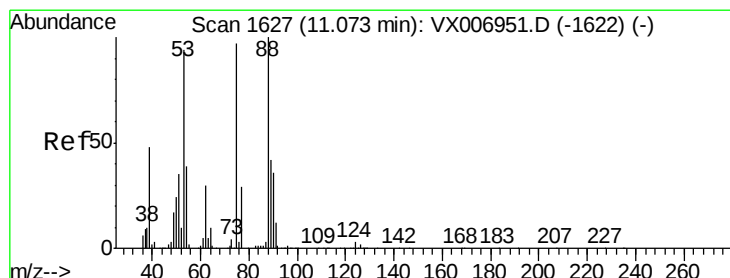
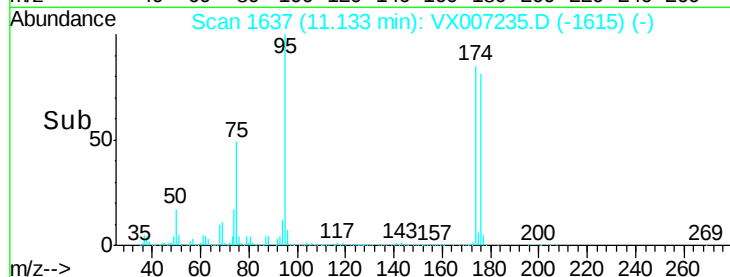
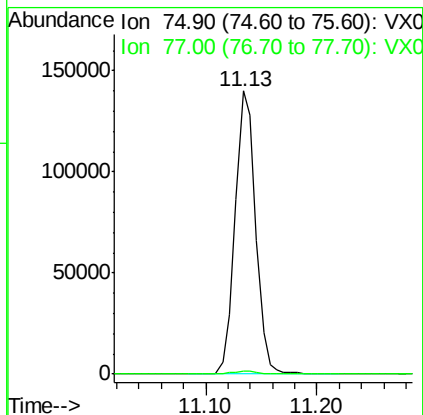
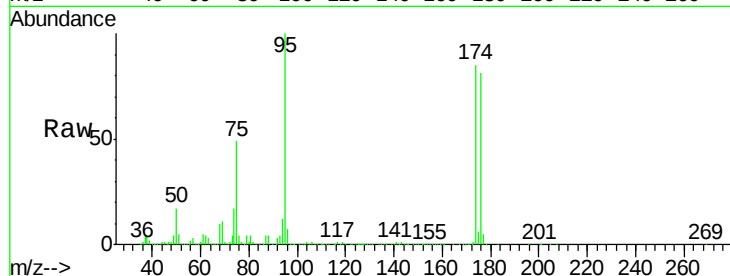
ClientSampleId :

Tot Ion: 75 Resp: 177911

Ion Ratio Lower Upper

75 100

77 1.4 18.5 55.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.968 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007235.D

Acq: 25 Jan 2019 18:02

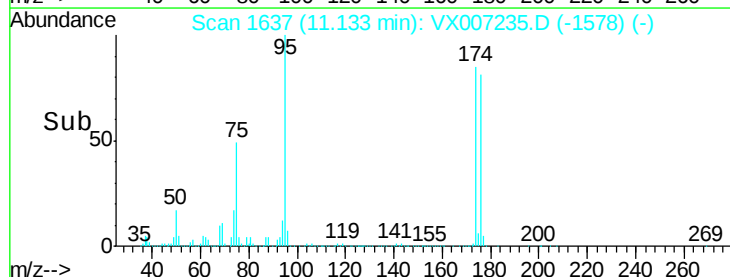
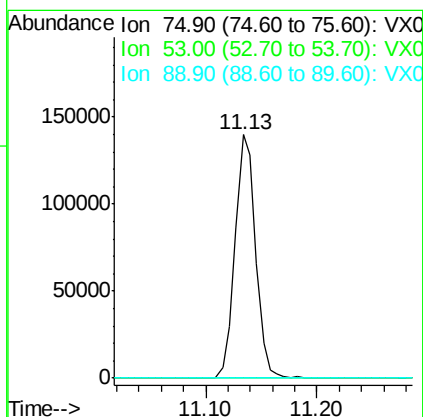
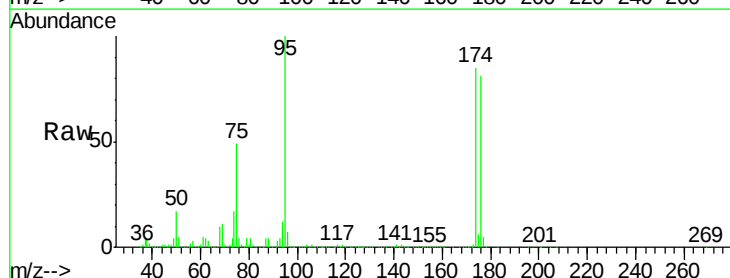
Tgt Ion: 75 Resp: 177911

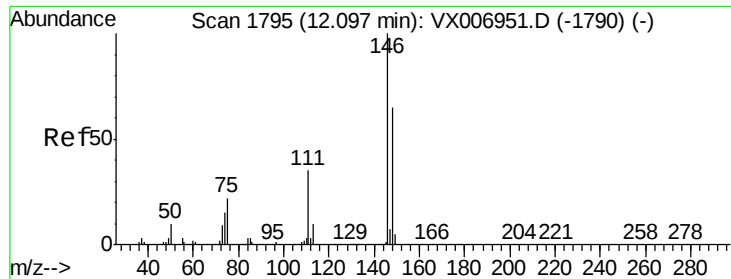
Ion Ratio Lower Upper

75 100

53 0.2 79.7 119.5#

89 0.1 38.0 57.0#





#88

1,4-Dichlorobenzene

Concen: 0.202 ug/l

RT: 12.03 min Scan# 1784

Delta R.T. -0.07 min

Lab File: VX007235.D

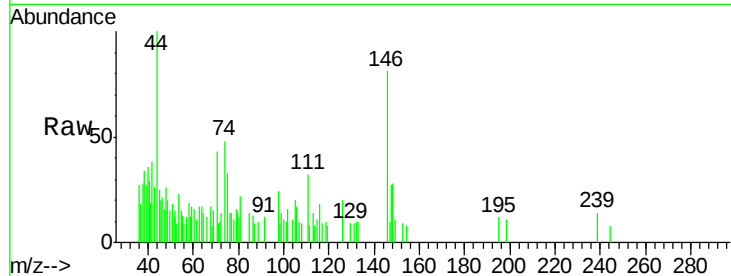
Acq: 25 Jan 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

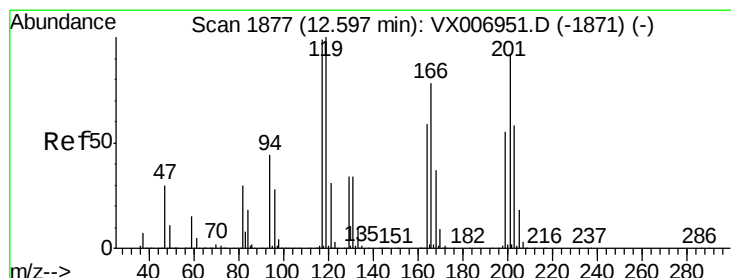
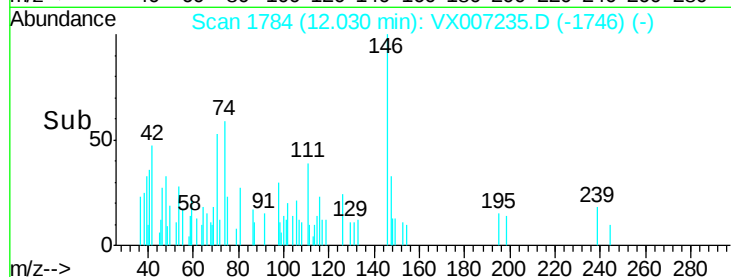
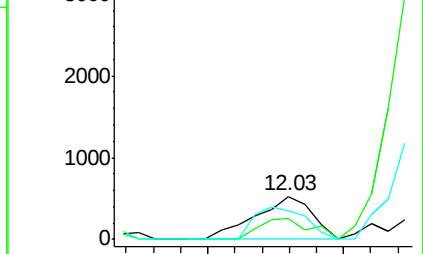
Tot Ion:	146	Resp:	766
Ion	Ratio	Lower	Upper
146	100		
111	43.2	18.1	54.1
148	68.1	31.9	95.9



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#90

Hexachloroethane

Concen: 2.928 ug/l

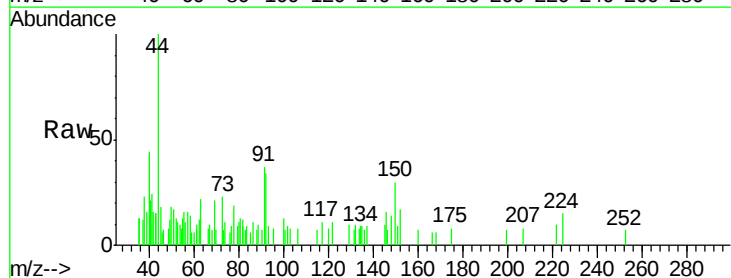
RT: 12.38 min Scan# 1842

Delta R.T. -0.21 min

Lab File: VX007235.D

Acq: 25 Jan 2019 18:02

Tgt Ion:	117	Resp:	86
Ion	Ratio	Lower	Upper
117	100		
201	76.7	42.9	128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

