

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121218\
 Data File : VX006469.D
 Acq On : 13 Dec 2018 02:52
 Operator : JC/MD
 Sample : J6193-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CL-01-121018-D

Quant Time: Dec 13 06:58:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112918W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 30 03:55:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	679399	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1055799	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	984874	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	470355	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	350414	50.52	ug/l	0.00
Spiked Amount			Recovery	=	101.04%	
35) Dibromofluoromethane	5.50	113	317373	46.43	ug/l	0.00
Spiked Amount			Recovery	=	92.86%	
50) Toluene-d8	8.71	98	1244245	50.04	ug/l	0.00
Spiked Amount			Recovery	=	100.08%	
62) 4-Bromofluorobenzene	11.14	95	460746	49.17	ug/l	0.00
Spiked Amount			Recovery	=	98.34%	

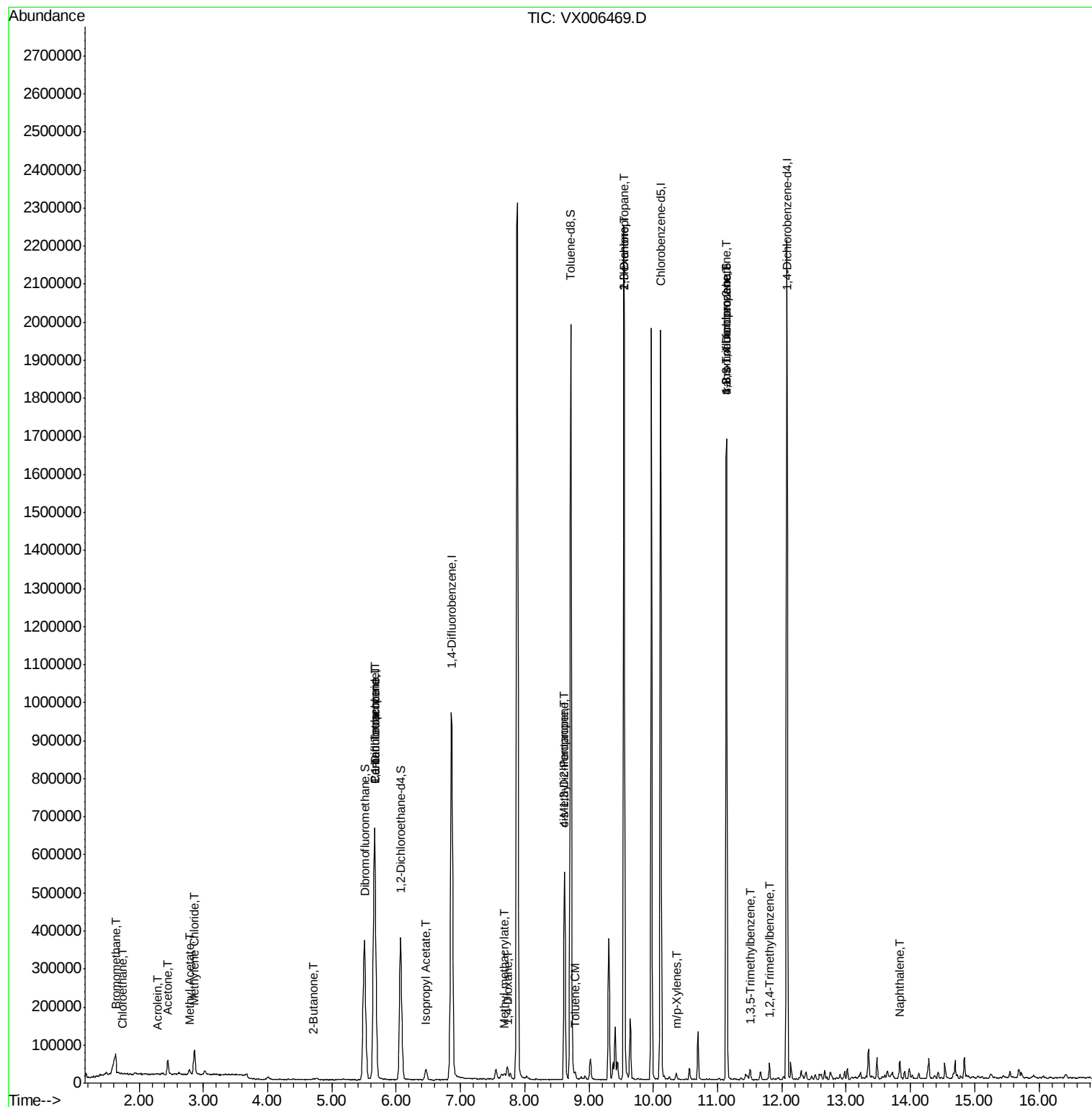
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1057	0.207	ug/l #	64
6) Chloroethane	1.74	64	1283	0.284	ug/l #	42
13) Acrolein	2.28	56	475	0.458	ug/l #	13
16) Acetone	2.45	43	39904	12.260	ug/l	99
18) Methyl Acetate	2.78	43	17939	1.648	ug/l	96
20) Methylene Chloride	2.86	84	31851	4.598	ug/l	90
25) 2-Butanone	4.71	43	4497	0.968	ug/l #	84
36) 1,1-Dichloropropene	5.66	75	43491	4.892	ug/l #	48
38) Carbon Tetrachloride	5.66	117	62409	5.967	ug/l #	16
43) Isopropyl Acetate	6.46	43	34671	2.089	ug/l	95
48) Methyl methacrylate	7.68	41	17933	2.221	ug/l #	13
49) 1,4-Dioxane	7.74	88	109	0.548	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	176298	18.243	ug/l #	49
52) Toluene	8.78	92	4053	0.231	ug/l	89
54) cis-1,3-Dichloropropene	8.62	75	95072	8.271	ug/l #	59
57) 1,3-Dichloropropane	9.54	76	19616	1.743	ug/l #	45
59) 2-Hexanone	9.54	43	242217	32.806	ug/l #	51
68) m/p-Xylenes	10.36	106	4405	0.316	ug/l	87
76) 1,2,3-Trichloropropane	11.13	75	209288	23.053	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	12129	0.449	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.13	75	209288	54.099	ug/l #	15
84) 1,2,4-Trimethylbenzene	11.80	105	19915	0.714	ug/l	99
95) Naphthalene	13.83	128	31894	0.883	ug/l	97

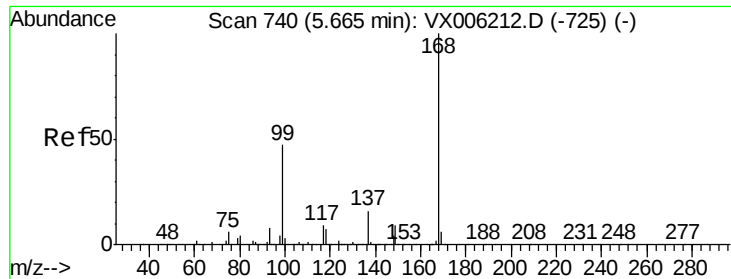
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112918W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 30 03:55:33 2018
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: VX006469.D

Acq: 13 Dec 2018 02:52

Instrument :

MSVOA_X

ClientSampleId :

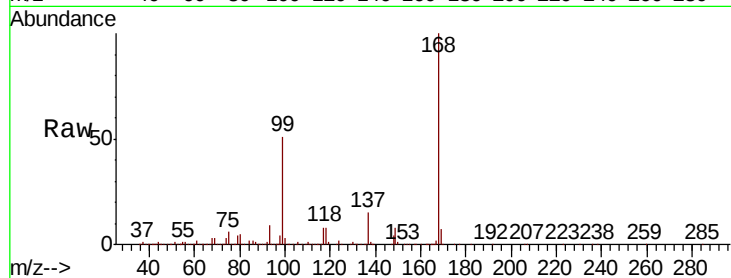
CL-01-121018-D

Tot Ion:168 Resp: 679399

Ion Ratio Lower Upper

168 100

99 51.4 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

250000

200000

150000

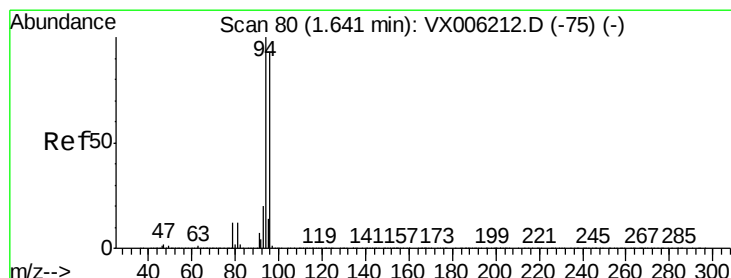
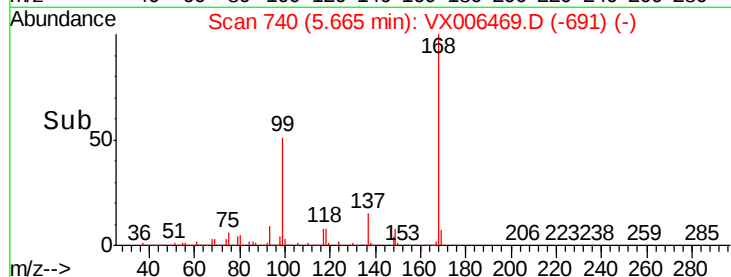
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.207 ug/l

RT: 1.64 min Scan# 80

Delta R.T. -0.00 min

Lab File: VX006469.D

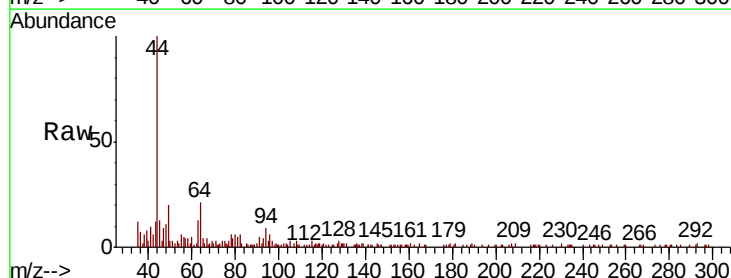
Acq: 13 Dec 2018 02:52

Tgt Ion: 94 Resp: 1057

Ion Ratio Lower Upper

94 100

96 58.3 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

1000

800

600

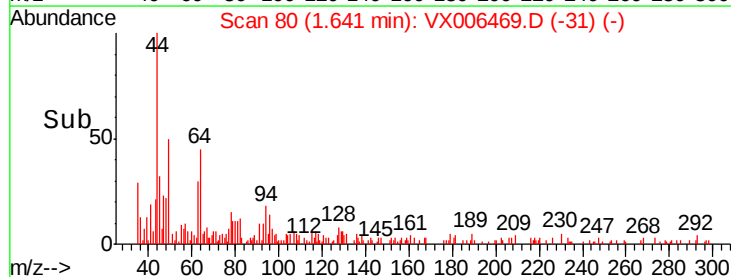
400

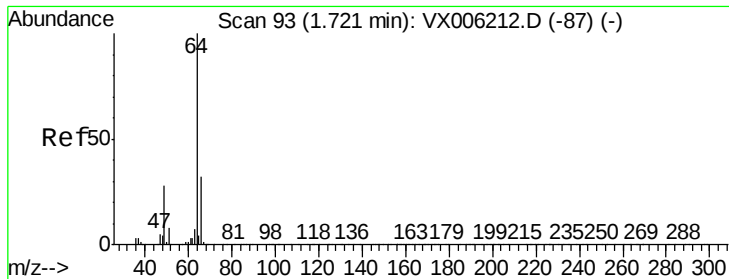
200

0

Time-->

1.55 1.60 1.65





#6

Chloroethane

Concen: 0.284 ug/l

RT: 1.74 min Scan# 96

Delta R.T. 0.02 min

Lab File: VX006469.D

Acq: 13 Dec 2018 02:52

Instrument :

MSVOA_X

ClientSampleId :

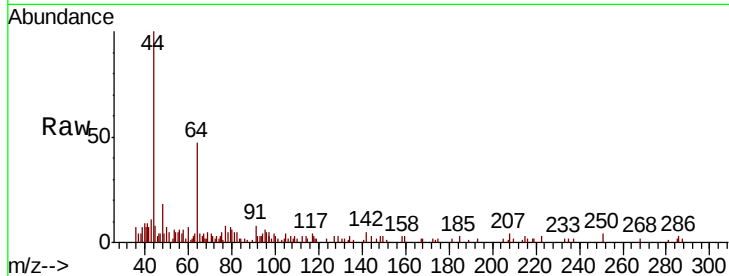
CL-01-121018-D

Tot Ion: 64 Resp: 1283

Ion Ratio Lower Upper

64 100

66 0.0 25.9 38.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.74

2000

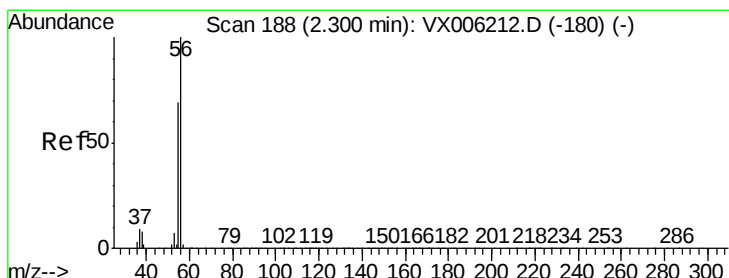
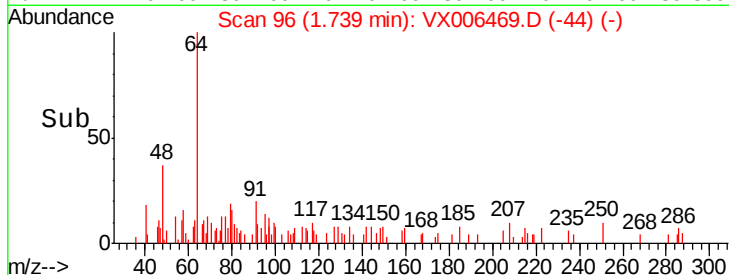
1500

1000

500

0

Time-->



#13

Acrolein

Concen: 0.458 ug/l

RT: 2.28 min Scan# 184

Delta R.T. -0.02 min

Lab File: VX006469.D

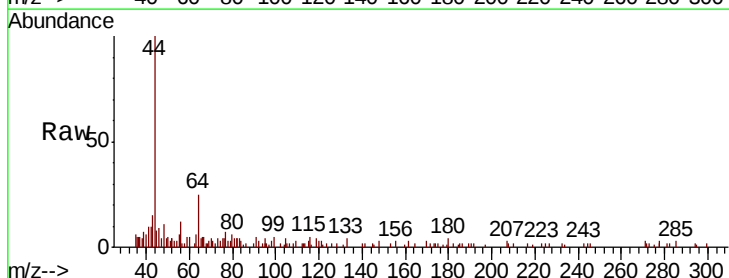
Acq: 13 Dec 2018 02:52

Tgt Ion: 56 Resp: 475

Ion Ratio Lower Upper

56 100

55 0.0 57.8 86.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

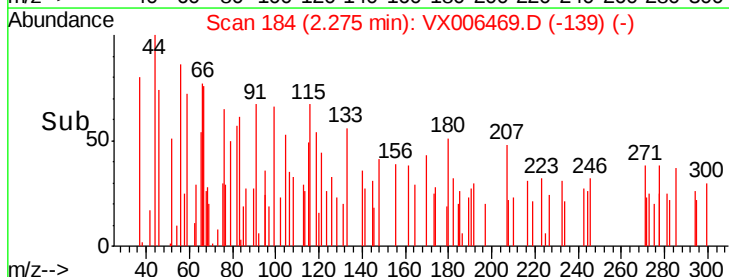
600

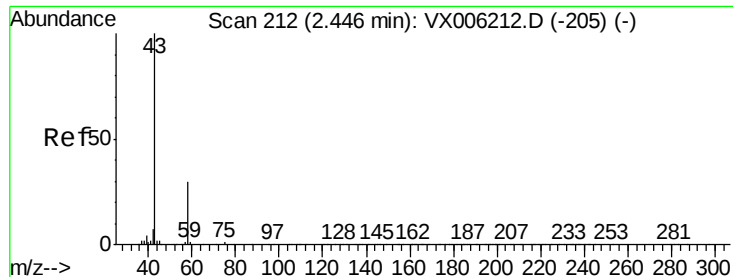
400

200

0

Time-->

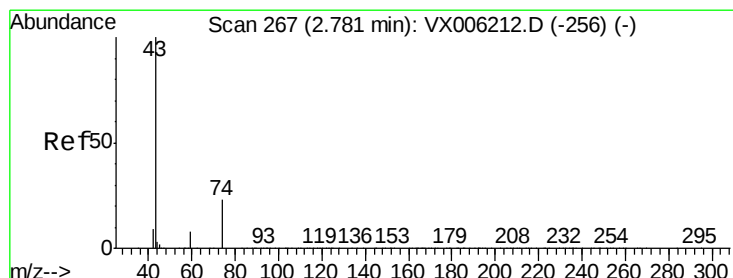
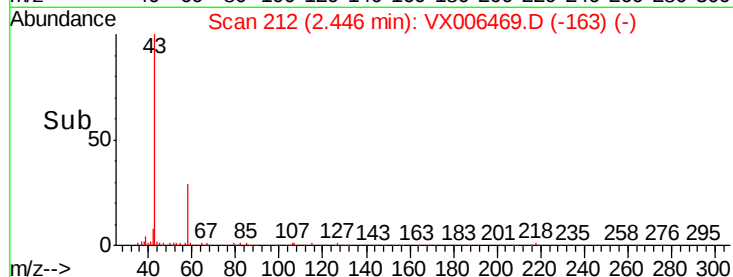
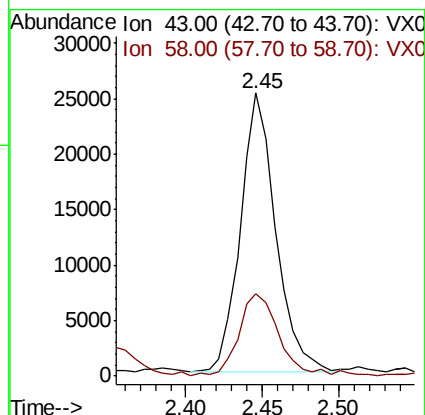
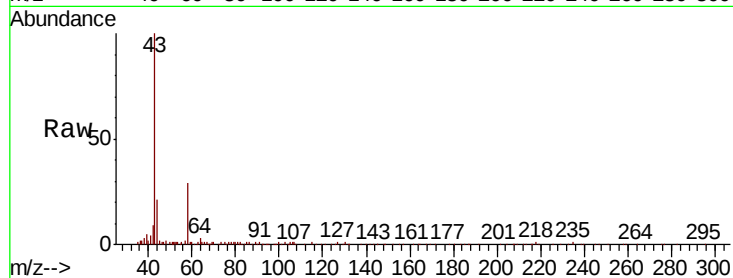




#16
Acetone
Concen: 12.260 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX006469.D
Acq: 13 Dec 2018 02:52

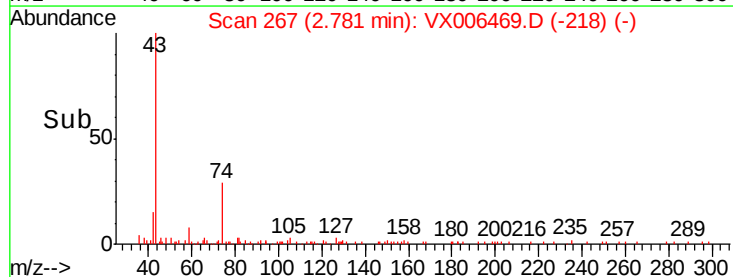
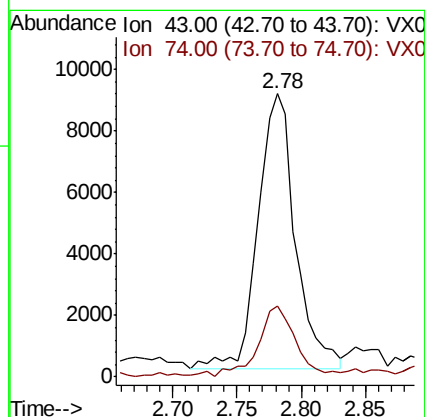
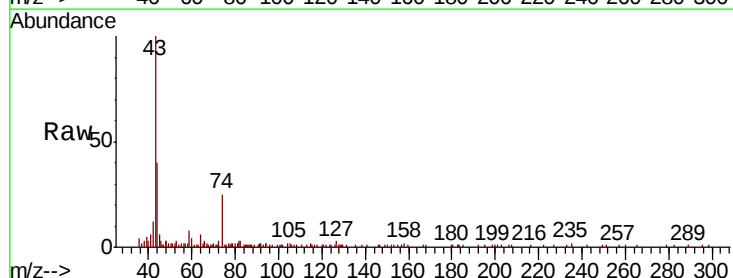
Instrument :
MSVOA_X
ClientSampleId :
CL-01-121018-D

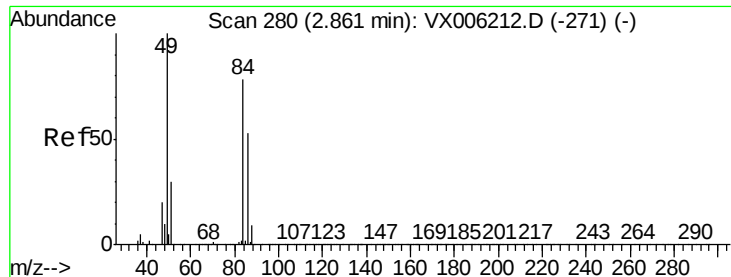
Tot Ion: 43 Resp: 39904
Ion Ratio Lower Upper
43 100
58 29.5 24.0 36.0



#18
Methyl Acetate
Concen: 1.648 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX006469.D
Acq: 13 Dec 2018 02:52

Tgt Ion: 43 Resp: 17939
Ion Ratio Lower Upper
43 100
74 24.5 17.9 26.9

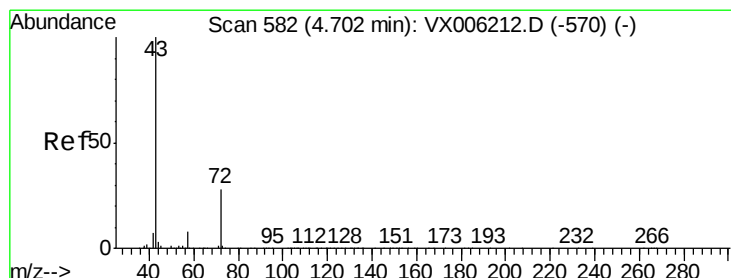
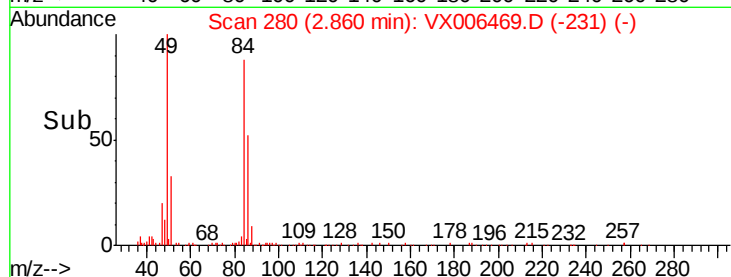
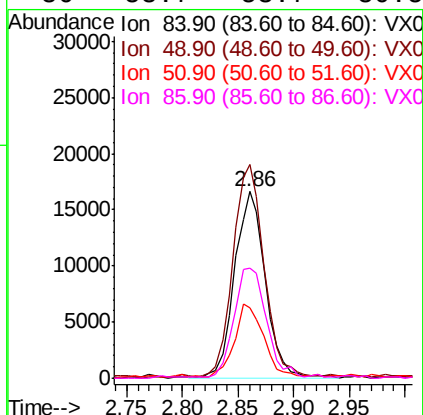
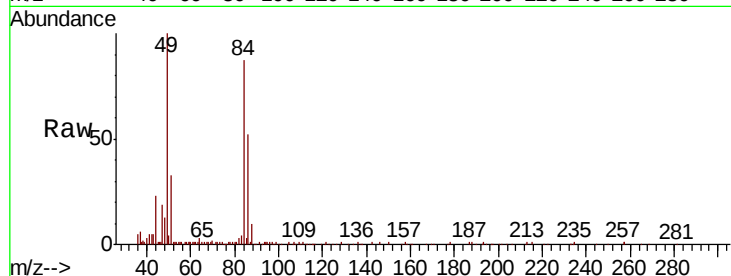




#20
Methvlene Chloride
Concen: 4.598 ug/l
RT: 2.86 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX006469.D
Acq: 13 Dec 2018 02:52

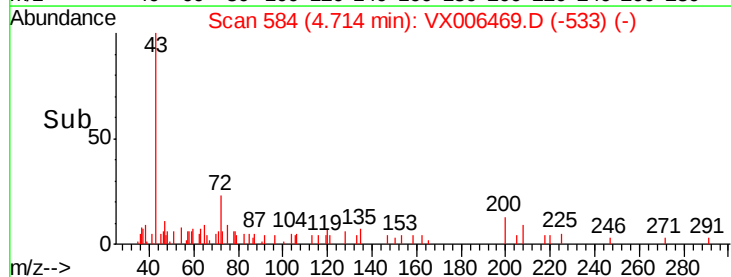
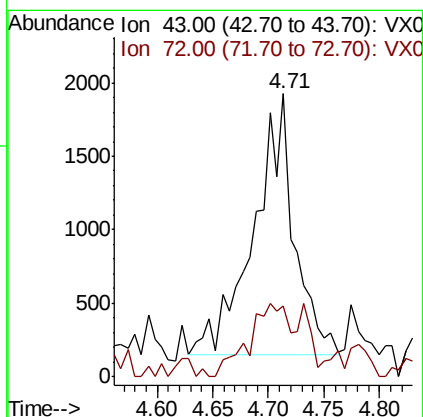
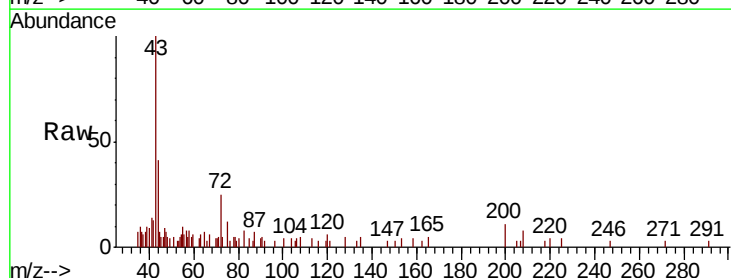
Instrument :
MSVOA_X
ClientSampleId :
CL-01-121018-D

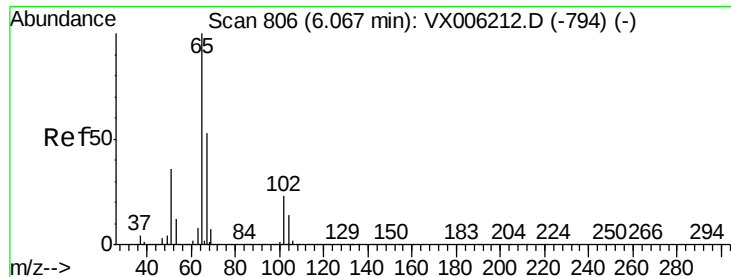
Tot Ion:	84	Resp:	31851
Ion	Ratio	Lower	Upper
84	100		
49	113.3	102.2	153.4
51	36.7	31.1	46.7
86	58.7	53.7	80.5



#25
2-Butanone
Concen: 0.968 ug/l
RT: 4.71 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX006469.D
Acq: 13 Dec 2018 02:52

Tgt Ion:	43	Resp:	4497
Ion	Ratio	Lower	Upper
43	100		
72	19.8	22.6	33.8#





#33

1,2-Dichloroethane-d4

Concen: 50.524 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX006469.D

Acq: 13 Dec 2018 02:52

Instrument :

MSVOA_X

ClientSampleId :

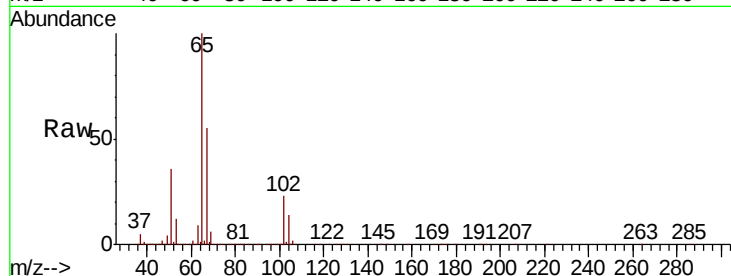
CL-01-121018-D

Tot Ion: 65 Resp: 350414

Ion Ratio Lower Upper

65 100

67 53.5 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

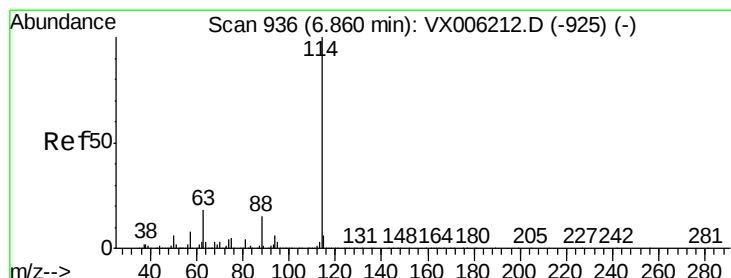
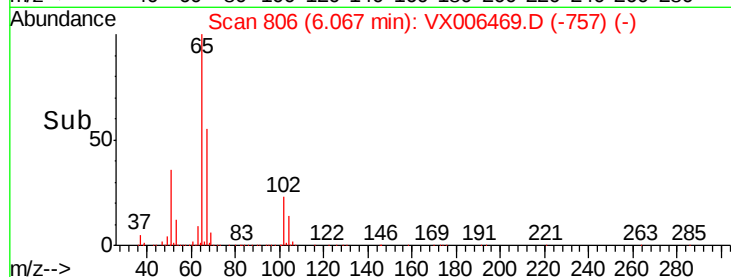
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006469.D

Acq: 13 Dec 2018 02:52

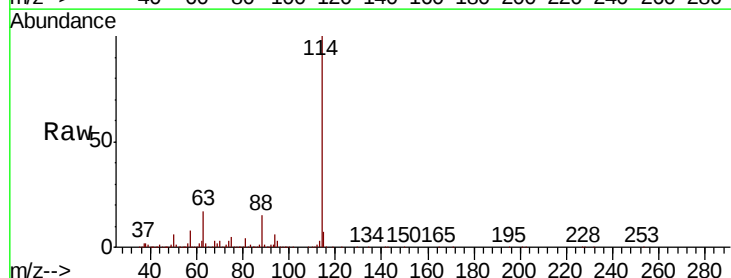
Tgt Ion: 114 Resp: 1055799

Ion Ratio Lower Upper

114 100

63 17.4 0.0 36.6

88 15.3 0.0 29.0



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

6.86

600000

500000

400000

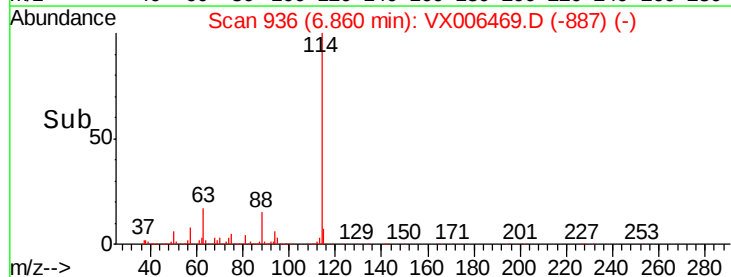
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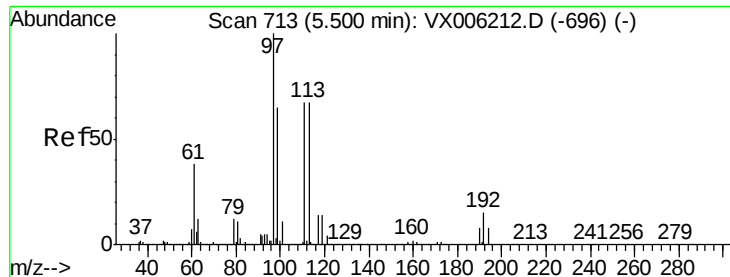
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 46.427 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX006469.D

Acq: 13 Dec 2018 02:52

Instrument :

MSVOA_X

ClientSampleId :

CL-01-121018-D

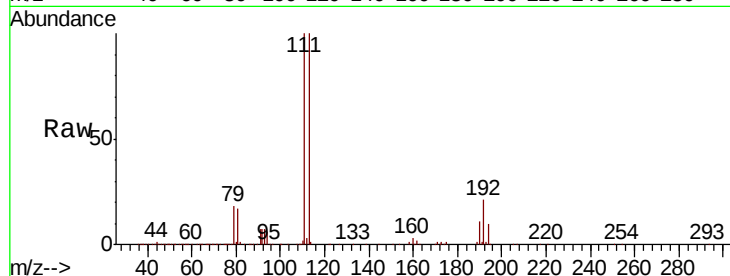
Tot Ion:113 Resp: 317373

Ion Ratio Lower Upper

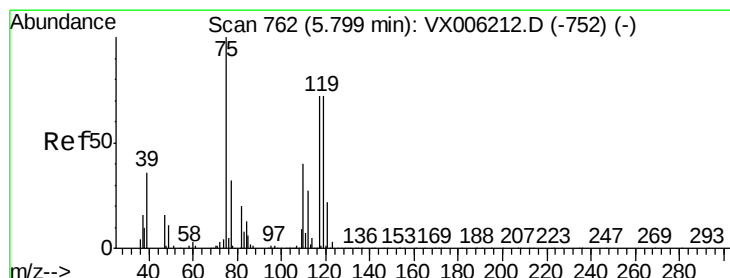
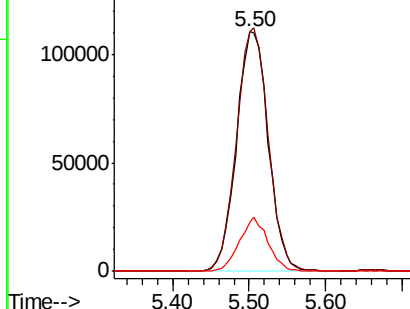
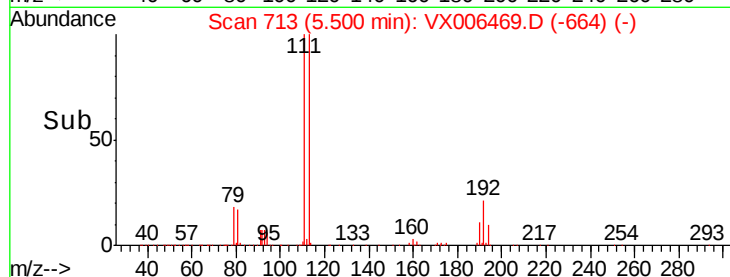
113 100

111 101.8 81.1 121.7

192 20.6 18.2 27.2



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: 4.892 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006469.D

Acq: 13 Dec 2018 02:52

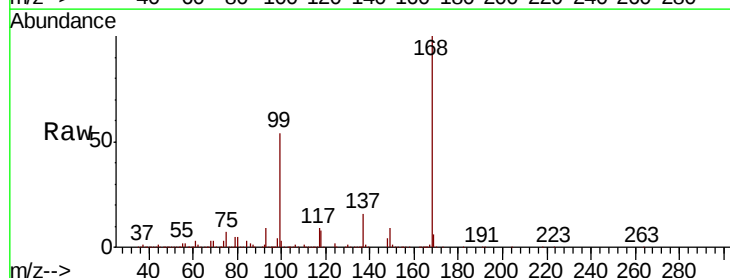
Tgt Ion: 75 Resp: 43491

Ion Ratio Lower Upper

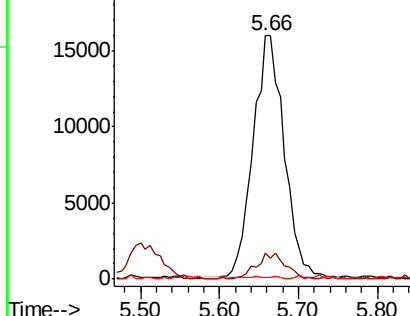
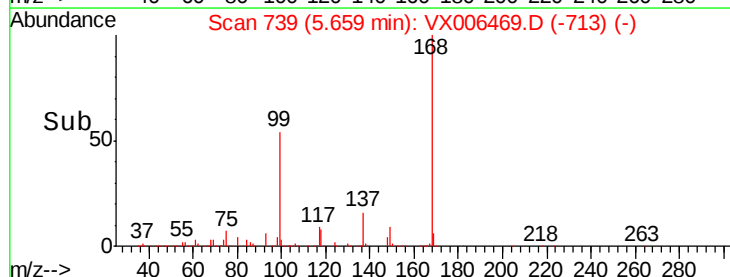
75 100

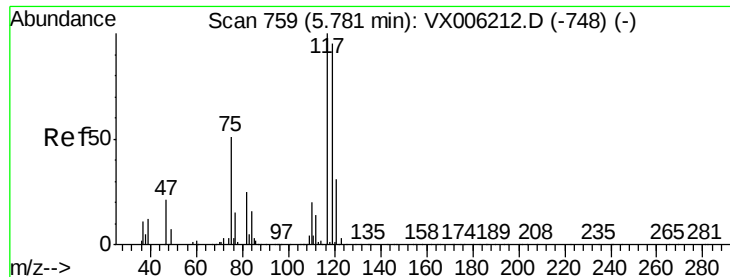
110 10.0 20.4 61.3#

77 0.3 24.9 37.3#



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: 5.967 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX006469.D

Acq: 13 Dec 2018 02:52

Instrument :

MSVOA_X

ClientSampleId :

CL-01-121018-D

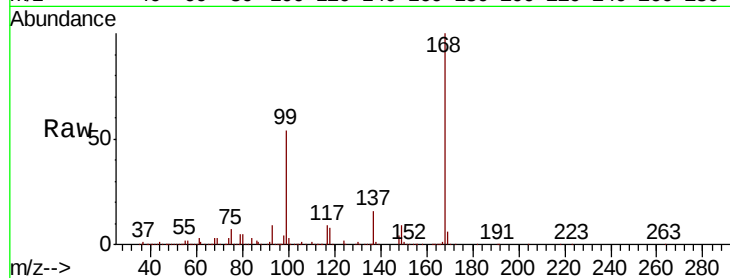
Tot Ion:117 Resp: 62409

Ion Ratio Lower Upper

117 100

119 4.0 75.8 113.8#

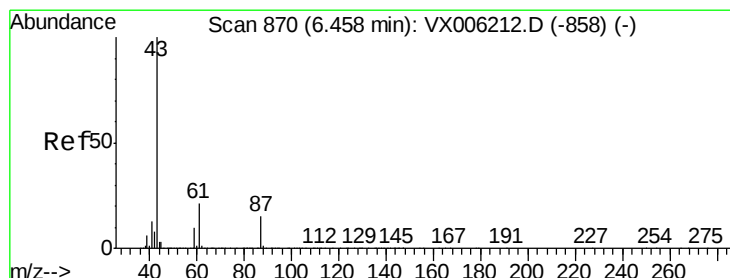
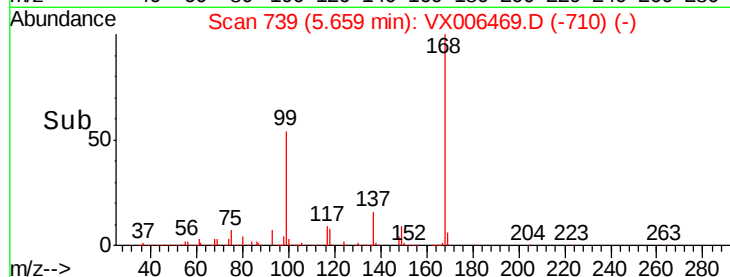
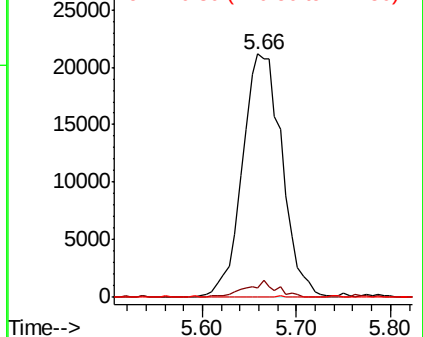
121 0.0 24.6 37.0#



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: 2.089 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX006469.D

Acq: 13 Dec 2018 02:52

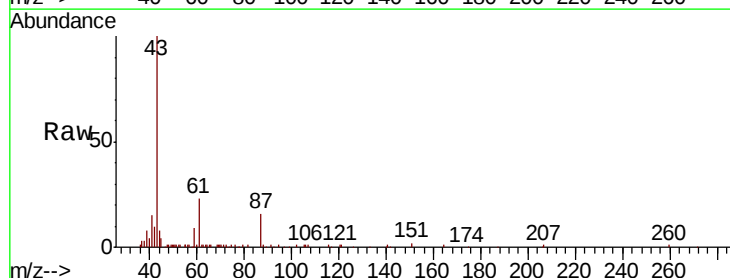
Tgt Ion: 43 Resp: 34671

Ion Ratio Lower Upper

43 100

61 23.0 16.8 25.2

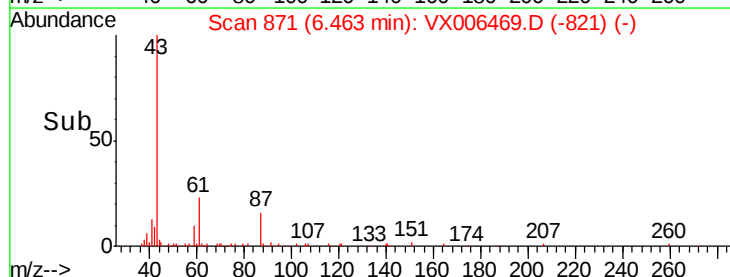
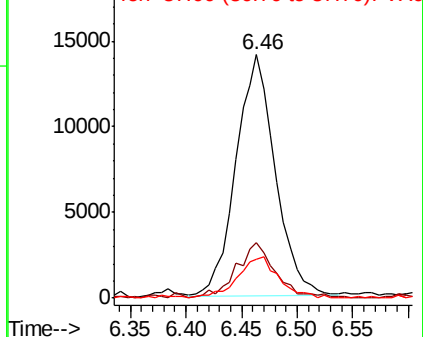
87 17.8 11.9 17.9

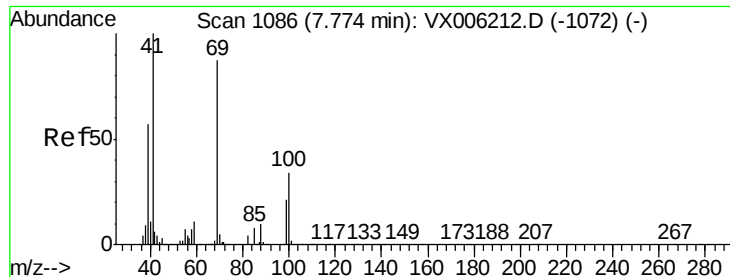


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

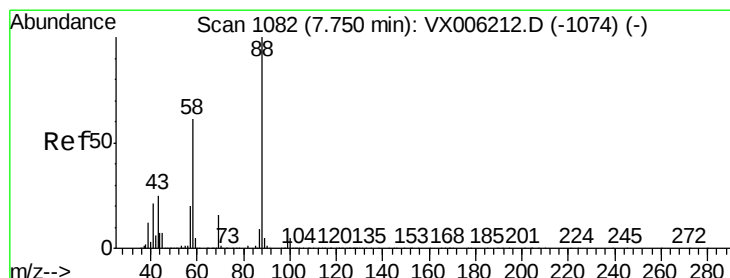
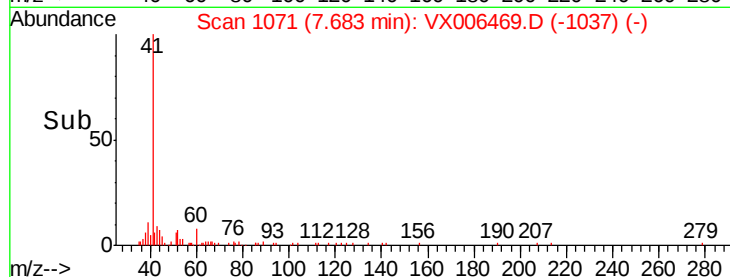
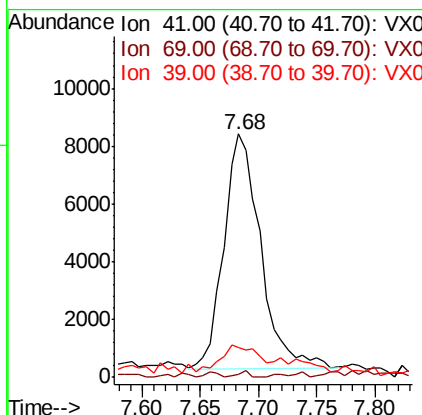
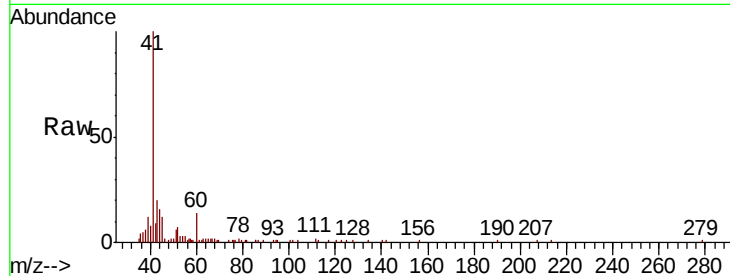




#48
Methvl methacrylate
Concen: 2.221 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.09 min
Lab File: VX006469.D
Acq: 13 Dec 2018 02:52

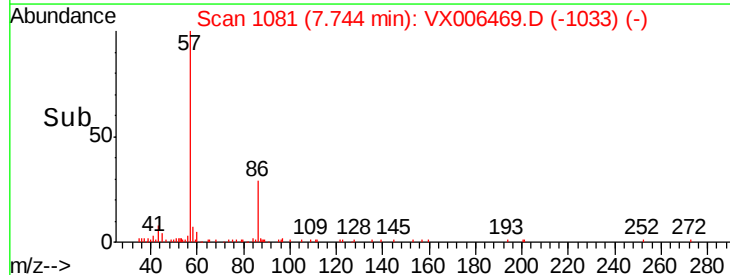
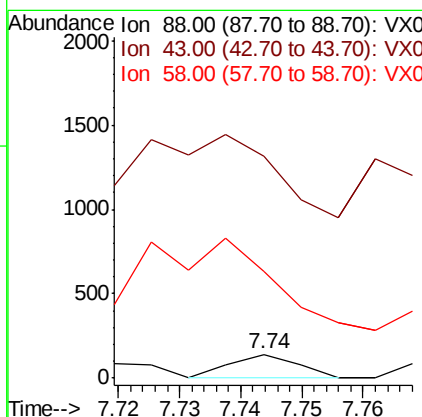
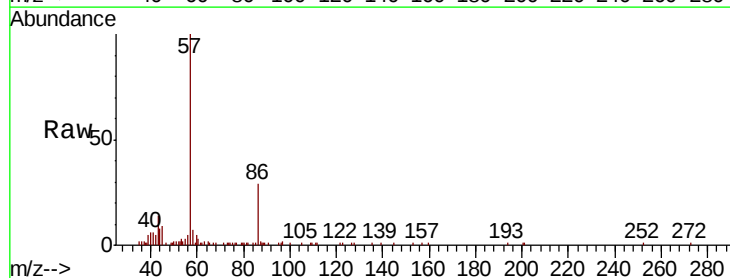
Instrument :
MSVOA_X
ClientSampleId :
CL-01-121018-D

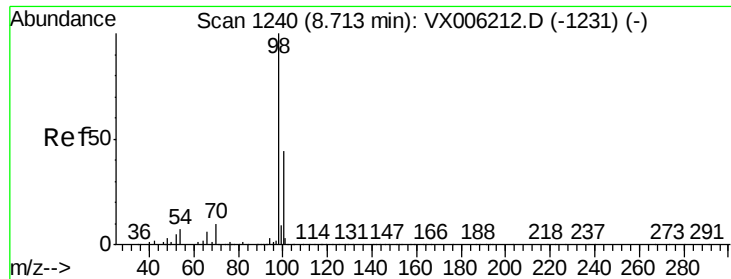
Tot Ion: 41 Resp: 17933
Ion Ratio Lower Upper
41 100
69 0.8 70.3 105.5#
39 0.0 45.3 67.9#



#49
1,4-Dioxane
Concen: 0.548 ug/l
RT: 7.74 min Scan# 1081
Delta R.T. -0.01 min
Lab File: VX006469.D
Acq: 13 Dec 2018 02:52

Tgt Ion: 88 Resp: 109
Ion Ratio Lower Upper
88 100
43 0.0 23.2 34.8#
58 1409.2 51.4 77.0#





#50

Toluene-d8

Concen: 50.040 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006469.D

Acq: 13 Dec 2018 02:52

Instrument :

MSVOA_X

ClientSampleId :

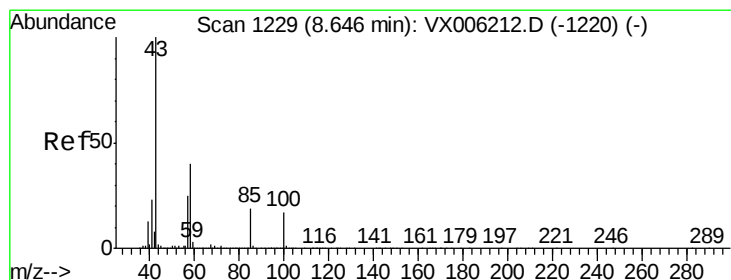
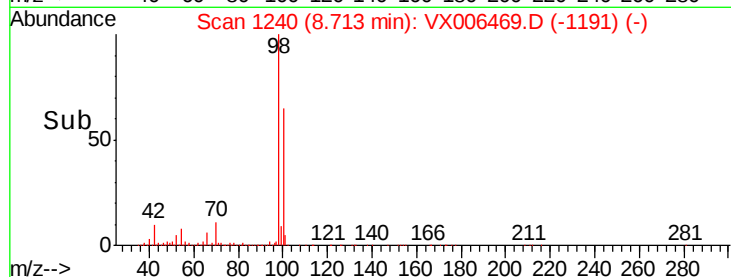
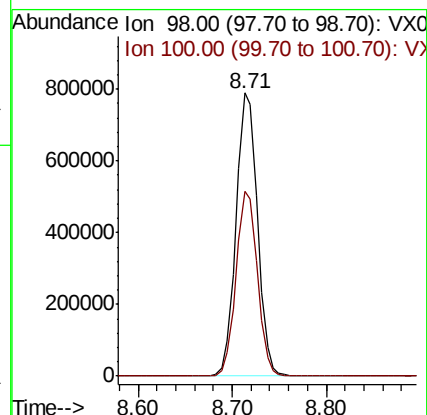
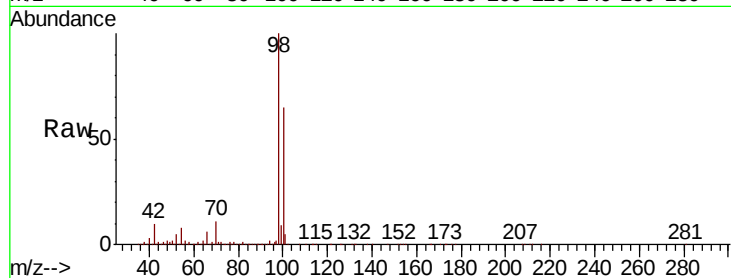
CL-01-121018-D

Tot Ion: 98 Resp: 1244245

Ion Ratio Lower Upper

98 100

100 64.9 52.2 78.2



#51

4-Methyl-2-Pentanone

Concen: 18.243 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX006469.D

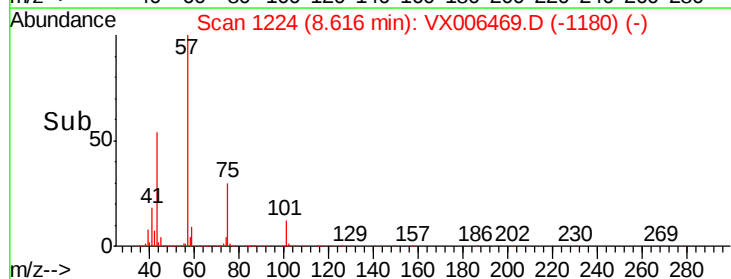
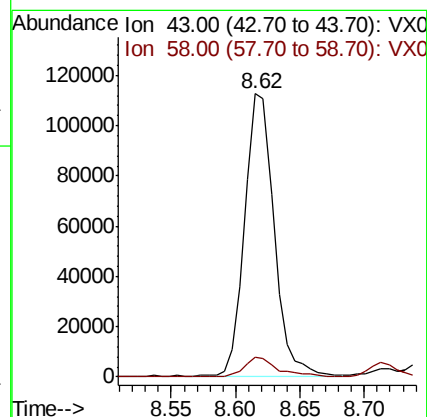
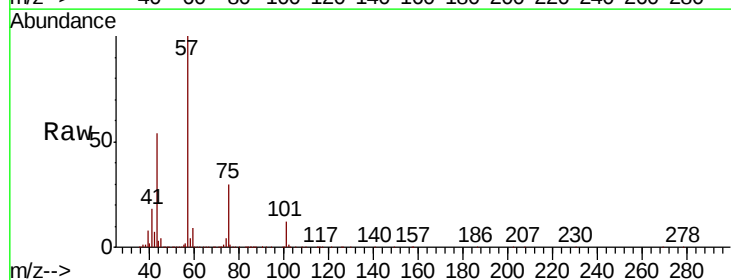
Acq: 13 Dec 2018 02:52

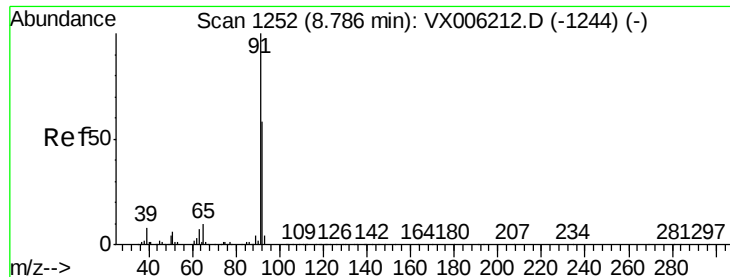
Tgt Ion: 43 Resp: 176298

Ion Ratio Lower Upper

43 100

58 8.0 31.3 46.9#





#52

Toluene

Concen: 0.231 ug/l

RT: 8.78 min Scan# 1251

Delta R.T. -0.01 min

Lab File: VX006469.D

Acq: 13 Dec 2018 02:52

Instrument :

MSVOA_X

ClientSampleId :

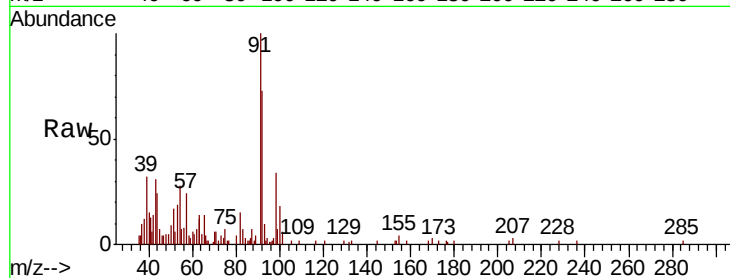
CL-01-121018-D

Tot Ion: 92 Resp: 4053

Ion Ratio Lower Upper

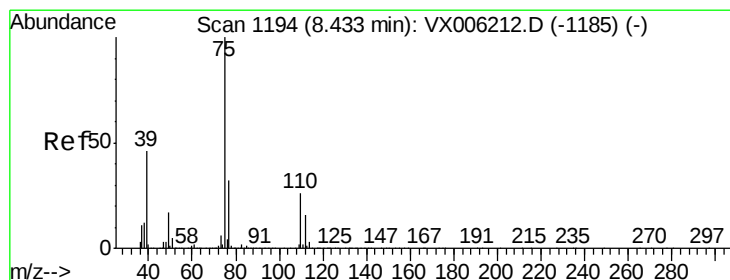
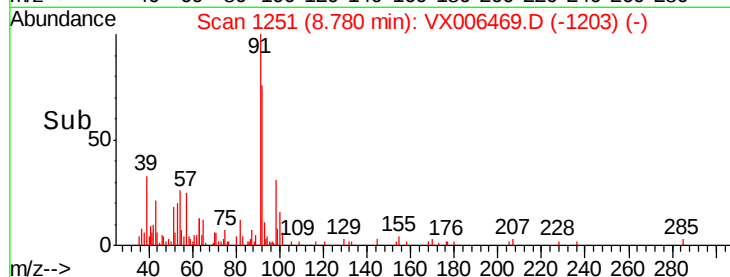
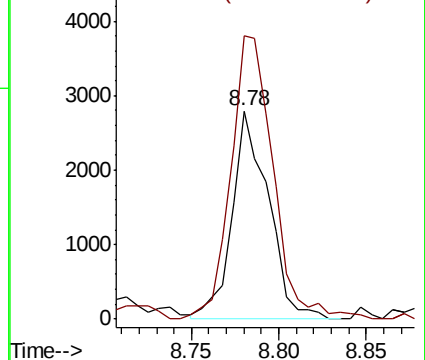
92 100

91 158.3 139.2 208.8



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#54

cis-1,3-Dichloropropene

Concen: 8.271 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX006469.D

Acq: 13 Dec 2018 02:52

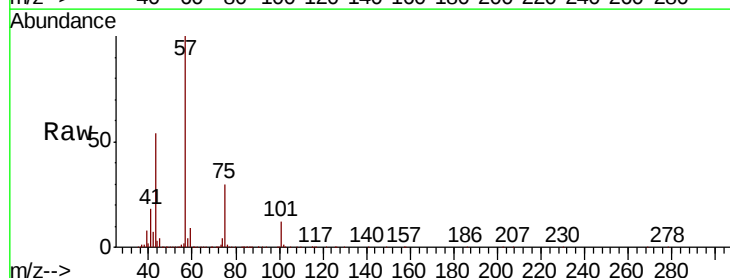
Tgt Ion: 75 Resp: 95072

Ion Ratio Lower Upper

75 100

77 0.5 25.6 38.4#

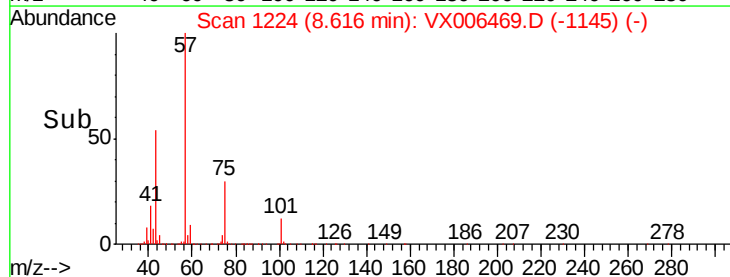
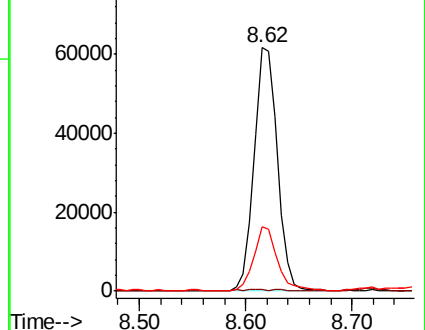
39 26.0 36.5 54.7#

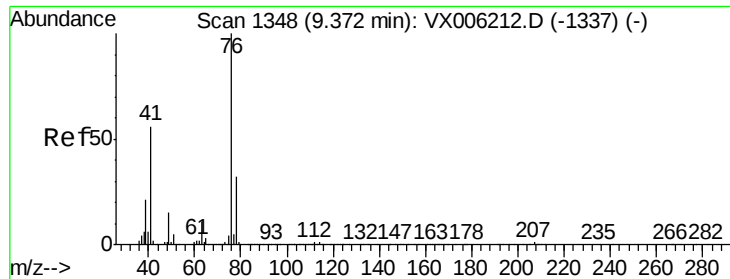


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0





#57

1,3-Dichloropropane

Concen: 1.743 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX006469.D

Acq: 13 Dec 2018 02:52

Instrument :

MSVOA_X

ClientSampleId :

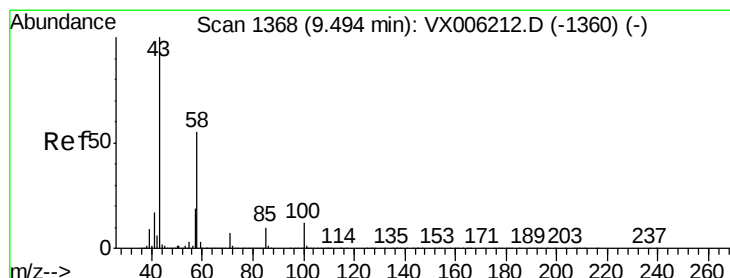
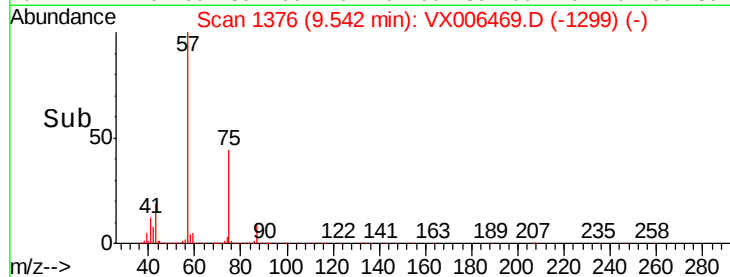
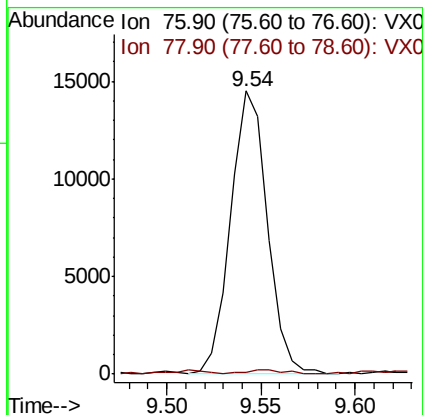
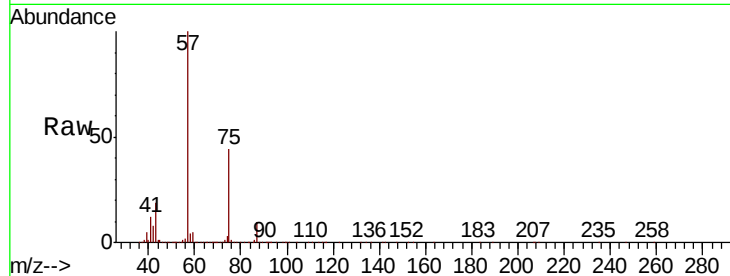
CL-01-121018-D

Tot Ion: 76 Resp: 19616

Ion Ratio Lower Upper

76 100

78 1.6 26.1 39.1#



#59

2-Hexanone

Concen: 32.806 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX006469.D

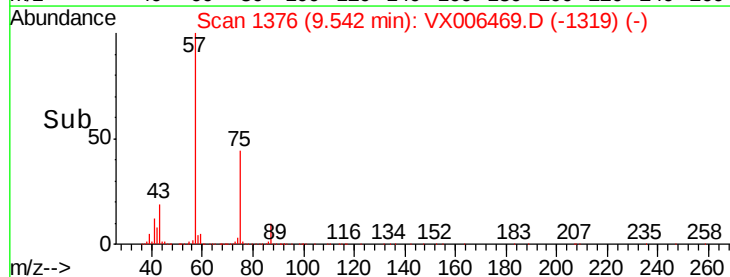
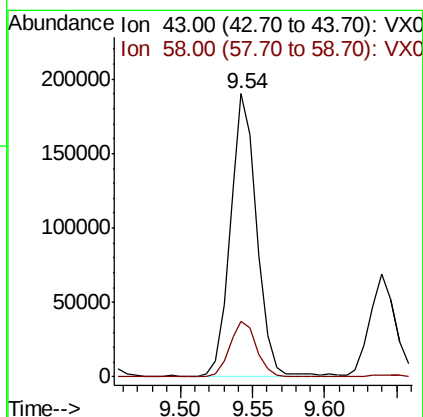
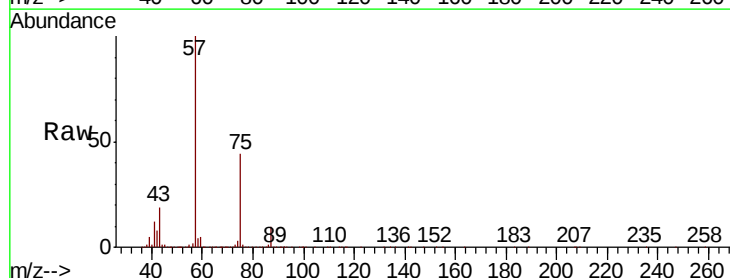
Acq: 13 Dec 2018 02:52

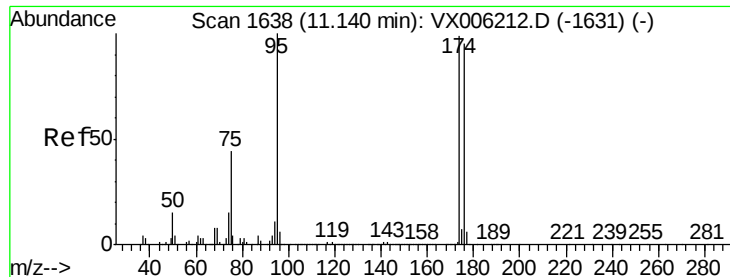
Tgt Ion: 43 Resp: 242217

Ion Ratio Lower Upper

43 100

58 20.1 27.7 83.1#





#62

4-Bromofluorobenzene

Concen: 49.173 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX006469.D

Acq: 13 Dec 2018 02:52

Instrument :

MSVOA_X

ClientSampleId :

CL-01-121018-D

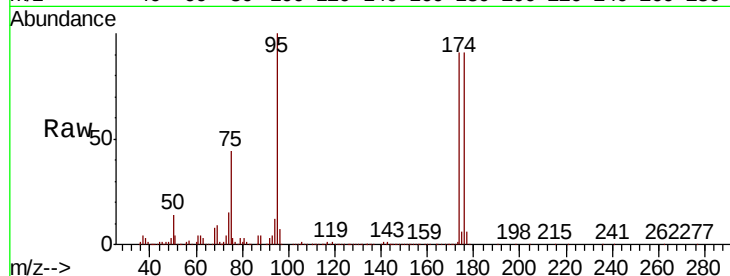
Tot Ion: 95 Resp: 460746

Ion Ratio Lower Upper

95 100

174 88.0 0.0 187.0

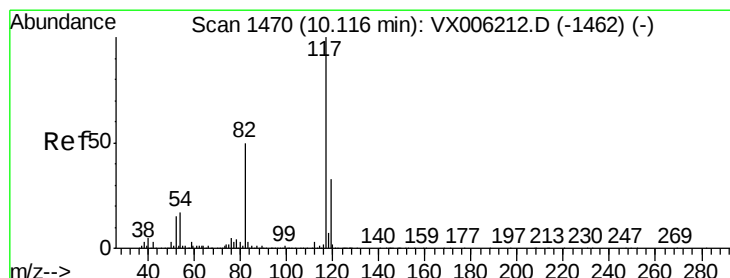
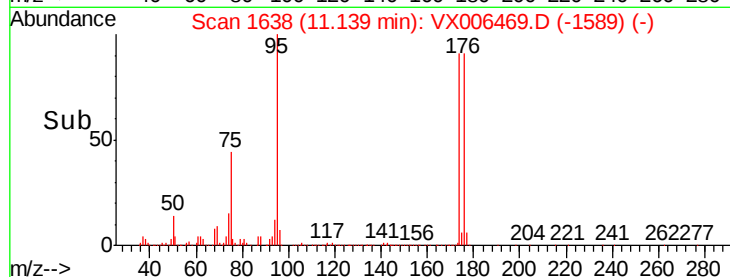
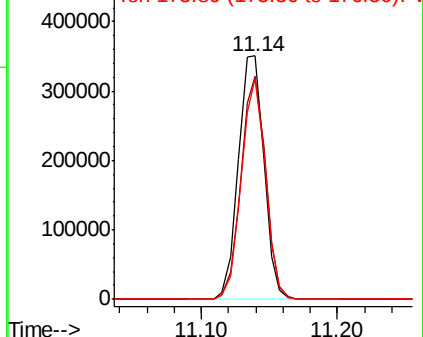
176 85.9 0.0 181.8



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX006469.D

Acq: 13 Dec 2018 02:52

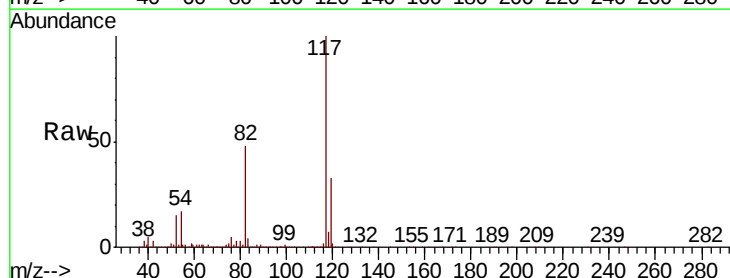
Tgt Ion: 117 Resp: 984874

Ion Ratio Lower Upper

117 100

82 48.0 39.6 59.4

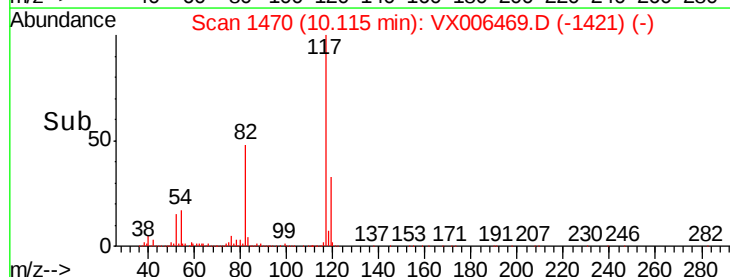
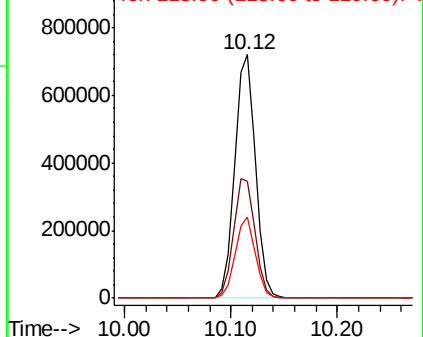
119 33.0 26.3 39.5

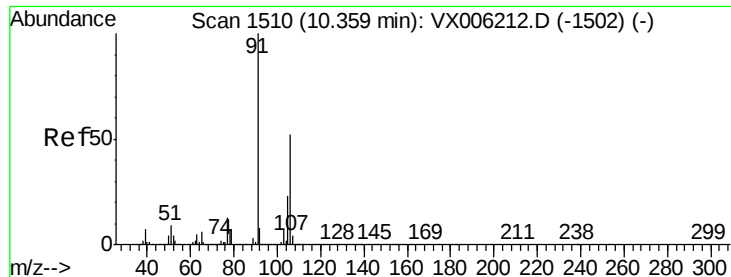


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#68

m/p-Xvlenes

Concen: 0.316 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VX006469.D

Acq: 13 Dec 2018 02:52

Instrument :

MSVOA_X

ClientSampleId :

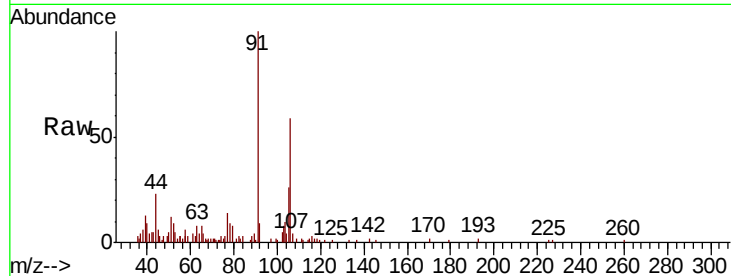
CL-01-121018-D

Tot Ion:106 Resp: 4405

Ion Ratio Lower Upper

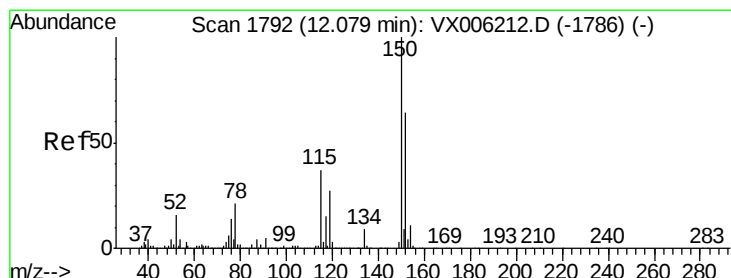
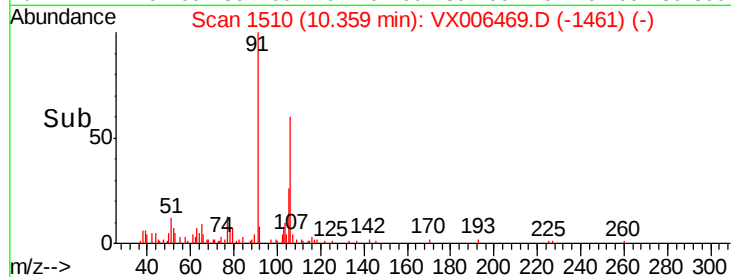
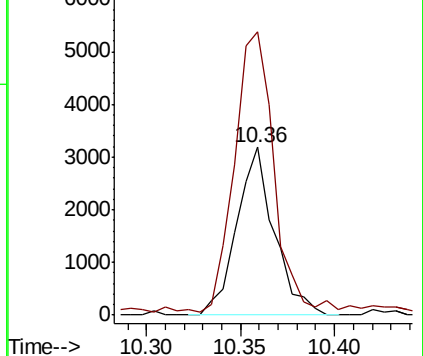
106 100

91 175.4 155.2 232.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX006469.D

Acq: 13 Dec 2018 02:52

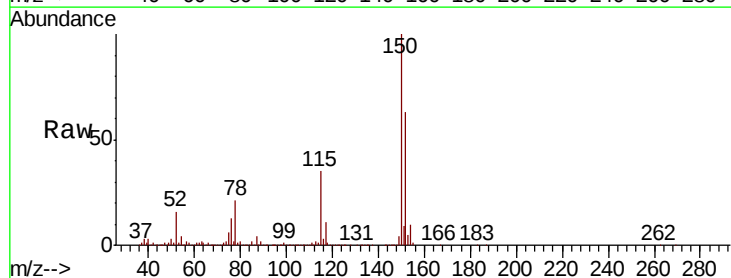
Tgt Ion:152 Resp: 470355

Ion Ratio Lower Upper

152 100

115 56.7 39.0 116.9

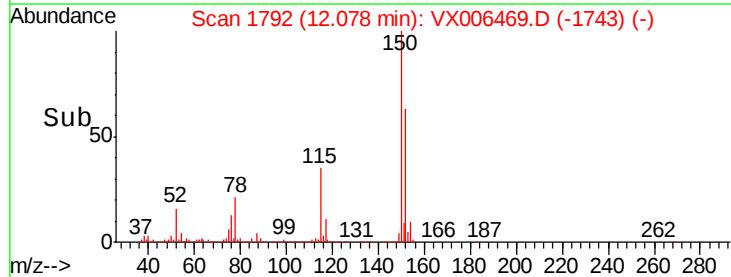
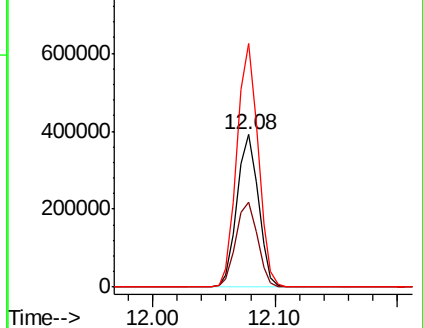
150 158.8 0.0 345.8

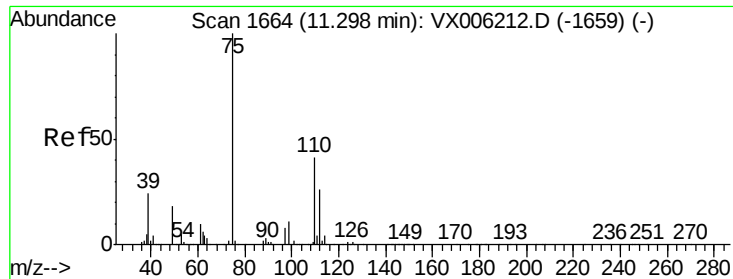


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.053 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006469.D

Acq: 13 Dec 2018 02:52

Instrument :

MSVOA_X

ClientSampleId :

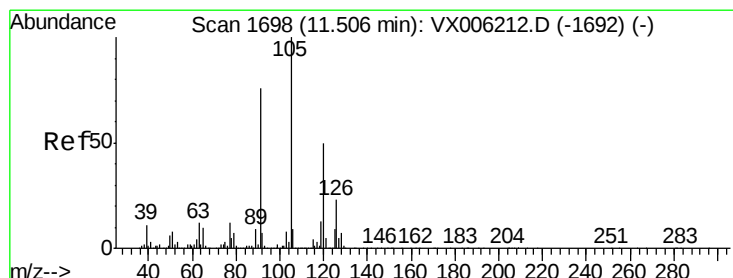
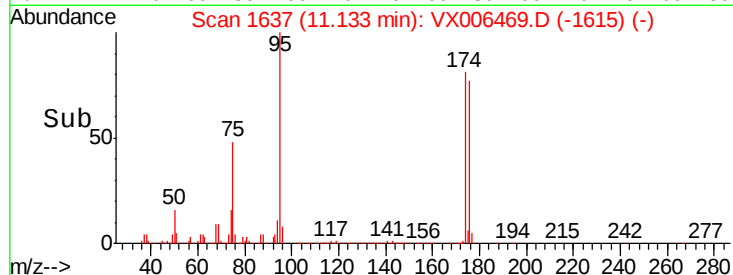
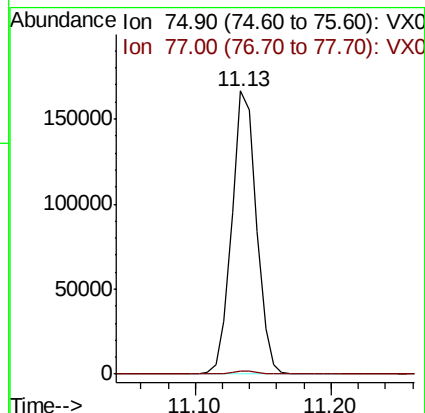
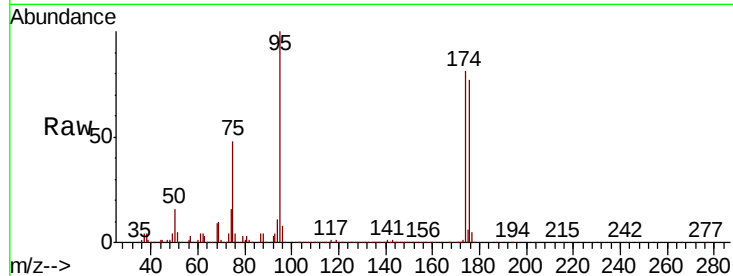
CL-01-121018-D

Tot Ion: 75 Resp: 209288

Ion Ratio Lower Upper

75 100

77 1.2 19.9 59.7#



#80

1,3,5-Trimethylbenzene

Concen: 0.449 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX006469.D

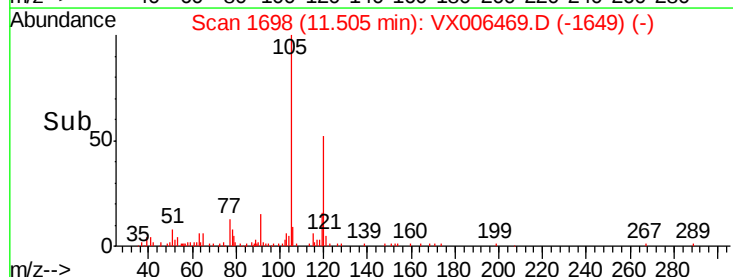
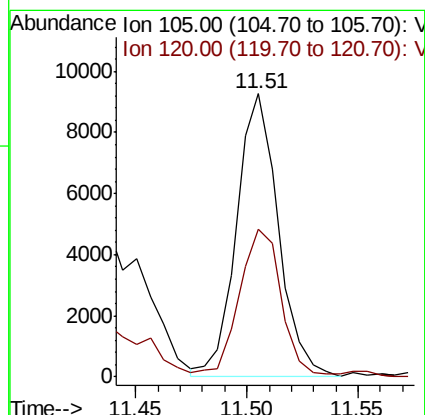
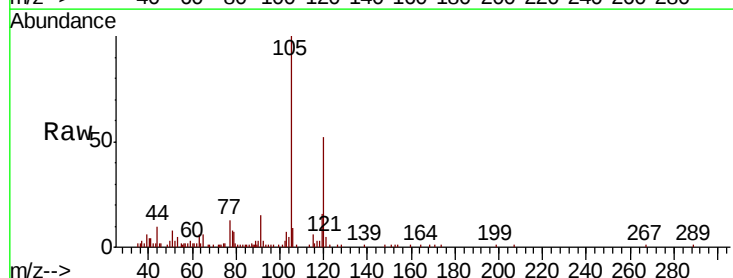
Acq: 13 Dec 2018 02:52

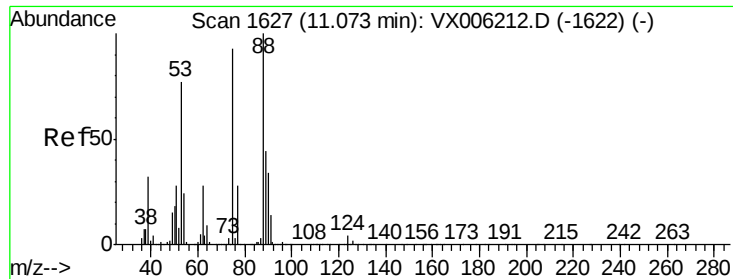
Tgt Ion: 105 Resp: 12129

Ion Ratio Lower Upper

105 100

120 52.6 25.4 76.0





#81

trans-1,4-Dichloro-2-butene

Concen: 54.099 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006469.D

Acq: 13 Dec 2018 02:52

Instrument :

MSVOA_X

ClientSampleId :

CL-01-121018-D

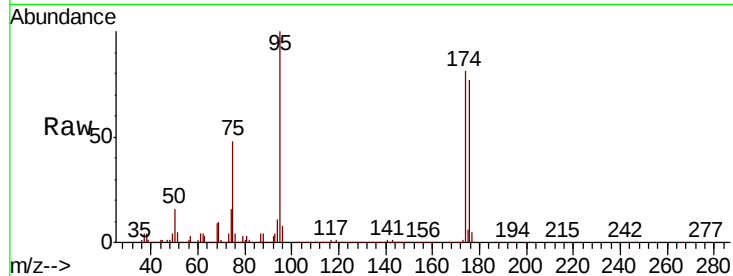
Tot Ion: 75 Resp: 209288

Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

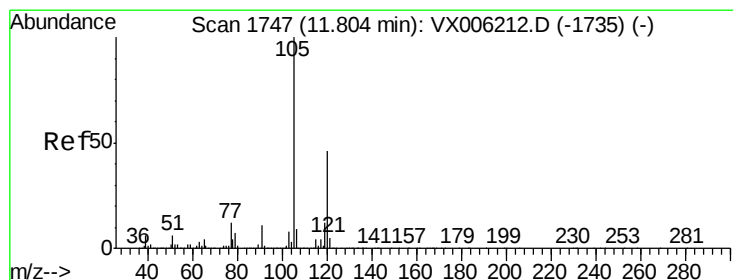
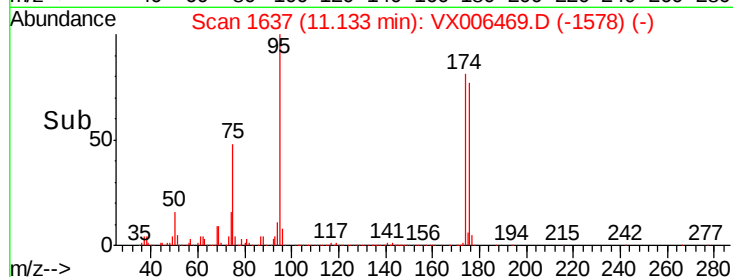
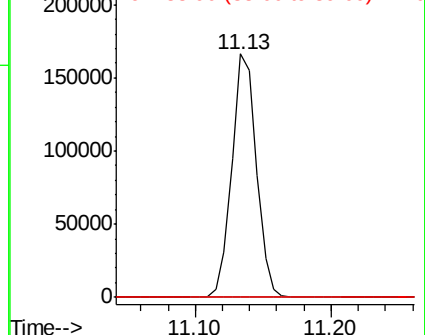
89 0.1 44.2 66.4#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.714 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. -0.00 min

Lab File: VX006469.D

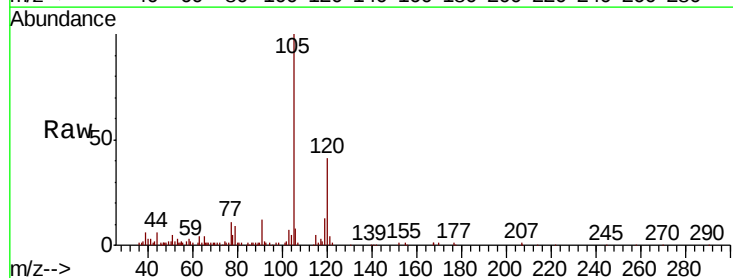
Acq: 13 Dec 2018 02:52

Tgt Ion: 105 Resp: 19915

Ion Ratio Lower Upper

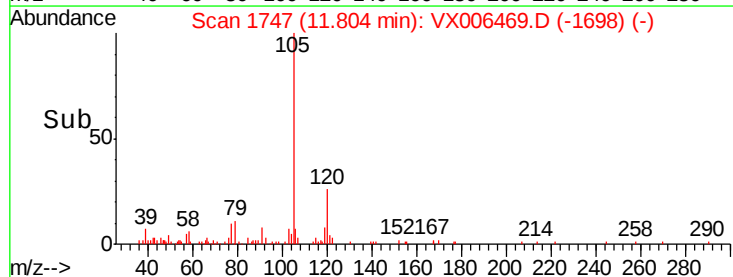
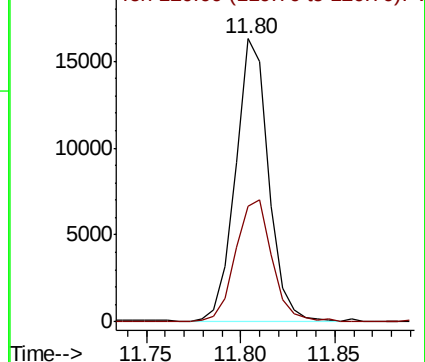
105 100

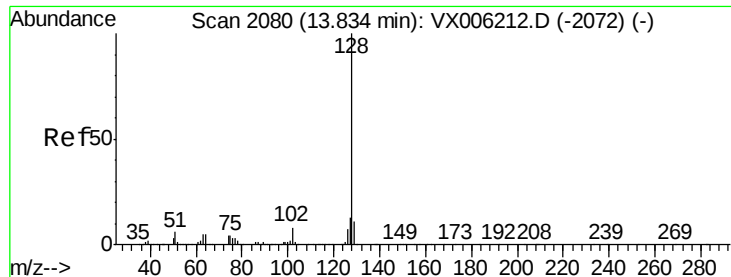
120 47.6 23.4 70.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95
Naphthalene
Concen: 0.883 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX006469.D
Acq: 13 Dec 2018 02:52

Instrument :
MSVOA_X
ClientSampleId :
CL-01-121018-D

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.1	10.2	15.4
129	12.0	8.9	13.3

