

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX012419\
 Data File : VX007207.D
 Acq On : 24 Jan 2019 16:49
 Operator : JC/SP
 Sample : K1016-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TR-05-RO-4-012319

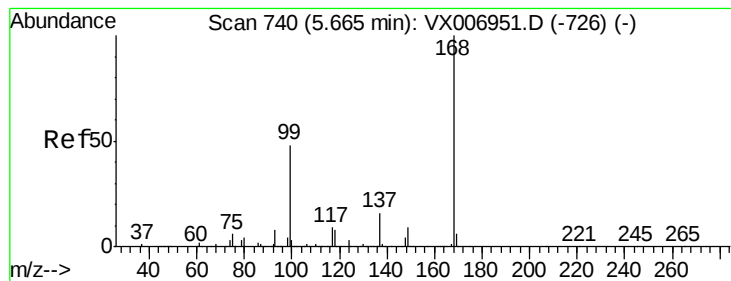
Quant Time: Jan 25 00:04:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	540237	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	838536	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	788973	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	380861	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	291665	51.66	ug/l	0.00
Spiked Amount			Recovery	=	103.32%	
35) Dibromofluoromethane	5.51	113	260163	48.45	ug/l	0.00
Spiked Amount			Recovery	=	96.90%	
50) Toluene-d8	8.71	98	1006348	51.20	ug/l	0.00
Spiked Amount			Recovery	=	102.40%	
62) 4-Bromofluorobenzene	11.13	95	353976	51.66	ug/l	0.00
Spiked Amount			Recovery	=	103.32%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1536	0.297	ug/l	96
8) Diethyl Ether	2.20	74	1080	0.302	ug/l	90
11) Tert butyl alcohol	3.08	59	1741	1.307	ug/l #	94
13) Acrolein	2.31	56	1227	5.194	ug/l	91
16) Acetone	2.45	43	29004	10.391	ug/l	97
18) Methyl Acetate	2.78	43	19160	2.370	ug/l	99
20) Methylene Chloride	2.86	84	182366	34.172	ug/l	96
25) 2-Butanone	4.70	43	7822	1.959	ug/l	94
36) 1,1-Dichloropropene	5.65	75	34743	4.766	ug/l #	49
38) Carbon Tetrachloride	5.67	117	48412	6.600	ug/l #	14
43) Isopropyl Acetate	6.46	43	29110	2.361	ug/l	98
48) Methyl methacrylate	7.68	41	17386	2.746	ug/l #	12
49) 1,4-Dioxane	7.73	88	83	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.62	43	138947	17.537	ug/l #	49
52) Toluene	8.79	92	12306	0.861	ug/l	99
54) cis-1,3-Dichloropropene	8.62	75	68203	8.325	ug/l #	63
57) 1,3-Dichloropropane	9.54	76	16587	1.769	ug/l #	46
59) 2-Hexanone	9.54	43	214848	35.584	ug/l #	52
68) m/p-Xylenes	10.35	106	4934	0.441	ug/l	98
69) o-Xylene	10.70	106	2842	0.260	ug/l	80
76) 1,2,3-Trichloropropane	11.13	75	171882	22.270	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	171882	65.907	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	12519	0.555	ug/l	100
90) Hexachloroethane	12.58	117	408	3.009	ug/l #	6
95) Naphthalene	13.83	128	49483	1.803	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX007207.D

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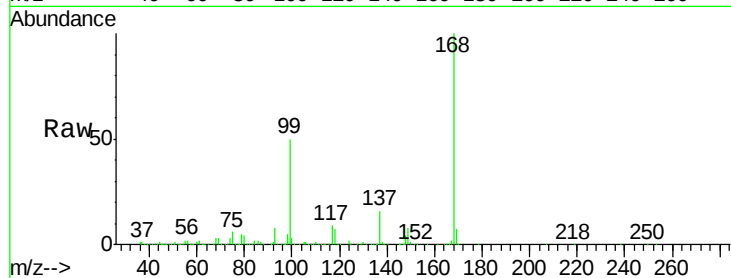
TR-05-RO-4-012319

Tot Ion:168 Resp: 540237

Ion Ratio Lower Upper

168 100

99 49.6 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

200000

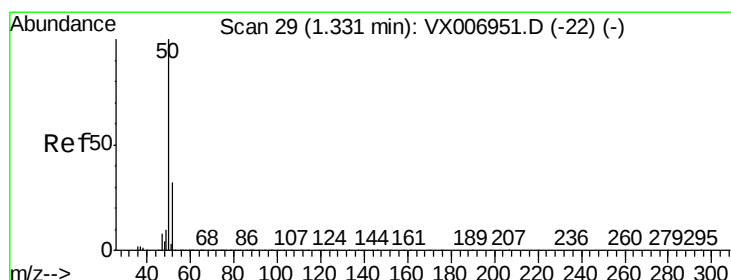
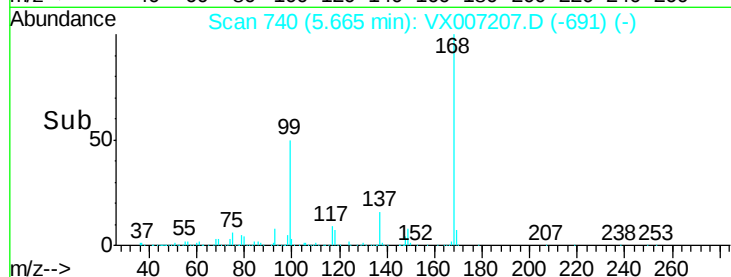
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.297 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX007207.D

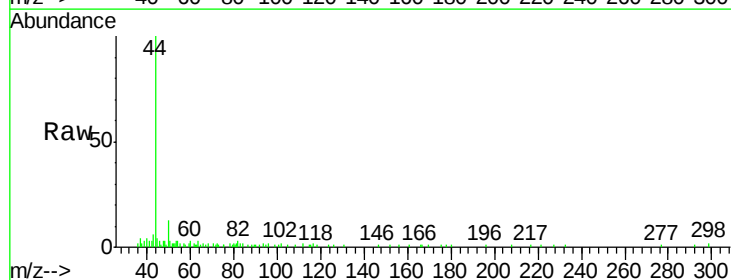
Acq: 24 Jan 2019 16:49

Tgt Ion: 50 Resp: 1536

Ion Ratio Lower Upper

50 100

52 29.7 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

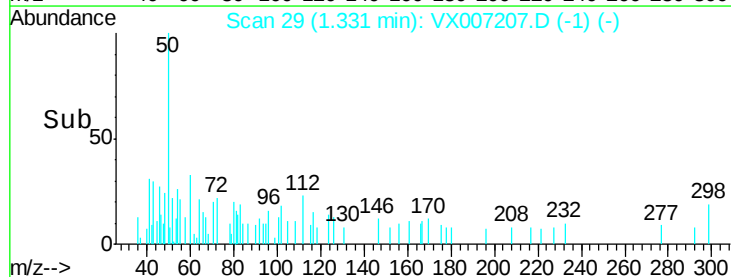
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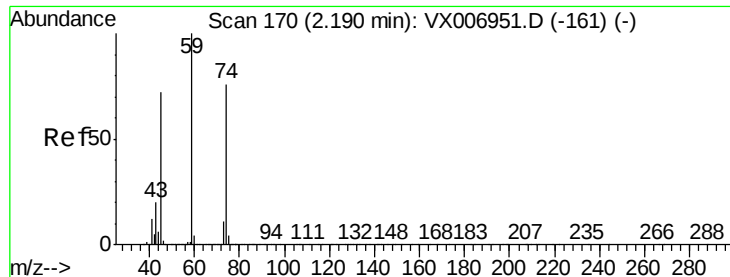
400

200

0

Time-->





#8

Diethyl Ether

Concen: 0.302 ug/l

RT: 2.20 min Scan# 172

Delta R.T. 0.01 min

Lab File: VX007207.D

Acq: 24 Jan 2019 16:49

Instrument :

MSVOA_X

ClientSampleId :

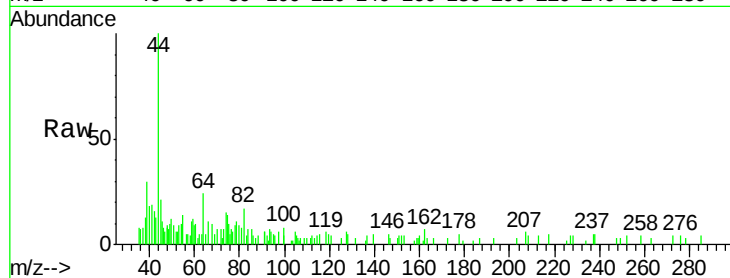
TR-05-RO-4-012319

Tot Ion: 74 Resp: 1080

Ion Ratio Lower Upper

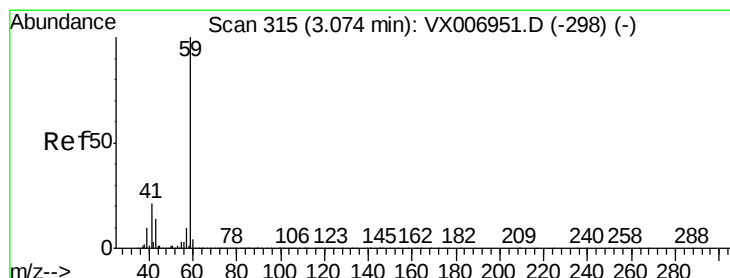
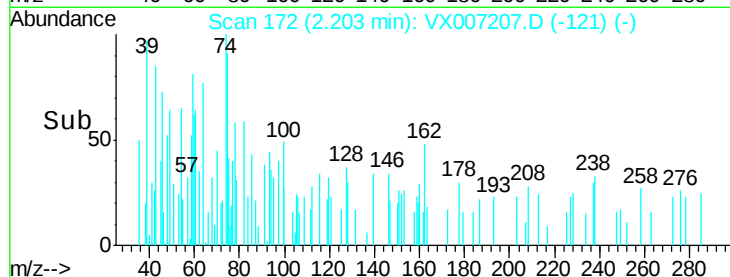
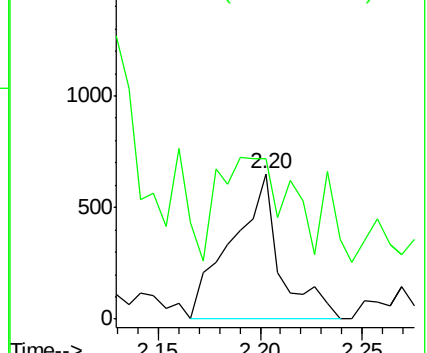
74 100

45 102.1 46.3 138.9



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#11

Tert butyl alcohol

Concen: 1.307 ug/l

RT: 3.08 min Scan# 316

Delta R.T. 0.01 min

Lab File: VX007207.D

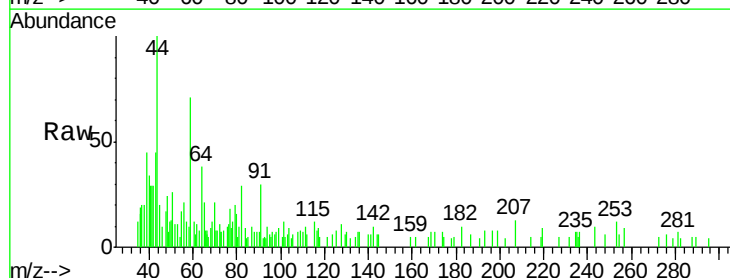
Acq: 24 Jan 2019 16:49

Tgt Ion: 59 Resp: 1741

Ion Ratio Lower Upper

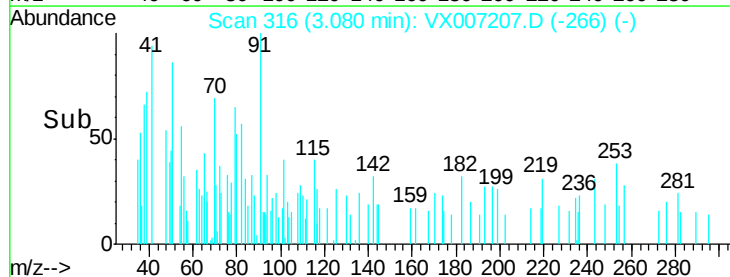
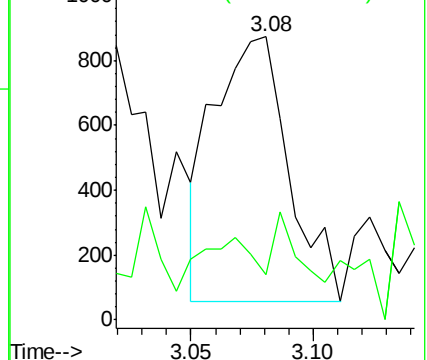
59 100

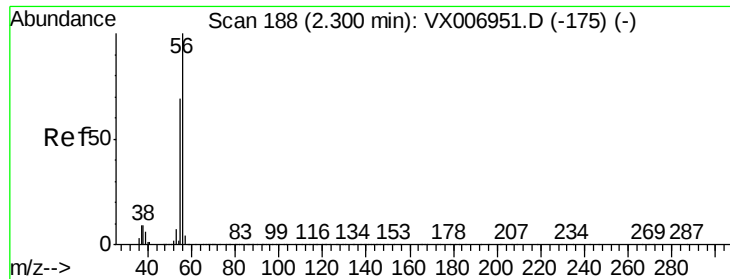
57 8.2 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

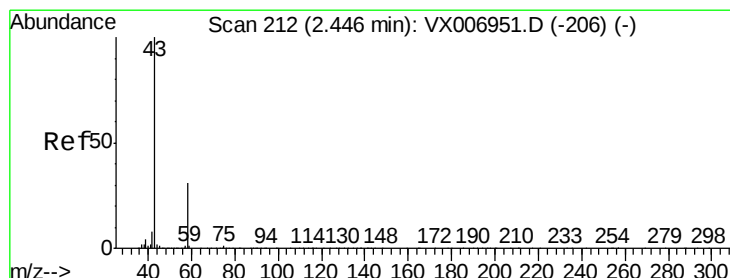
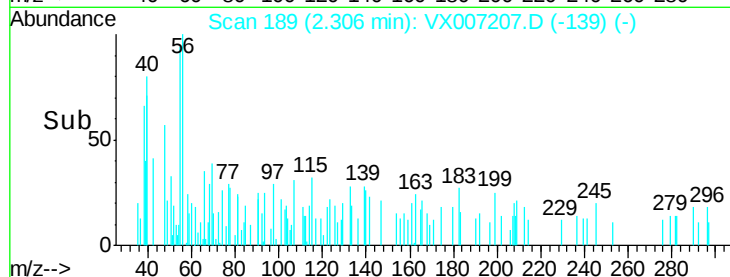
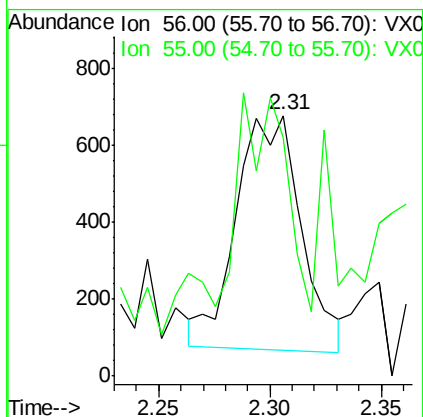
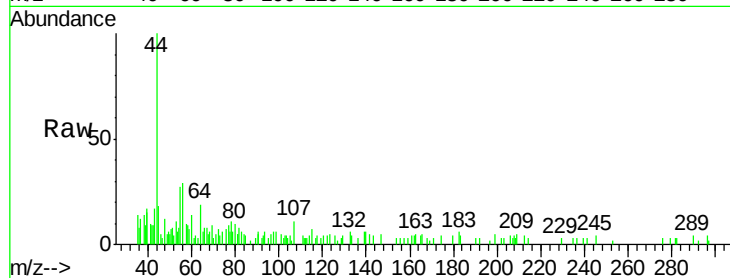




#13
Acrolein
Concen: 5.194 ug/l
RT: 2.31 min Scan# 189
Delta R.T. 0.01 min
Lab File: VX007207.D
Acq: 24 Jan 2019 16:49

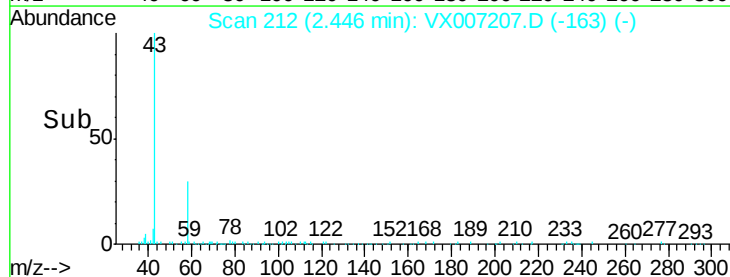
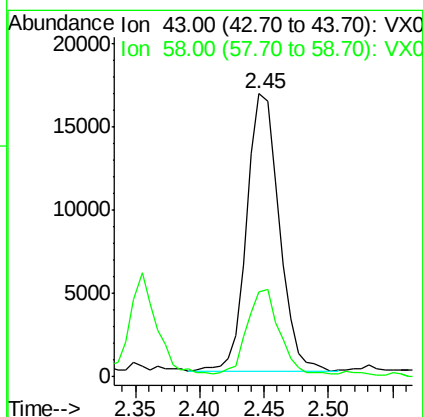
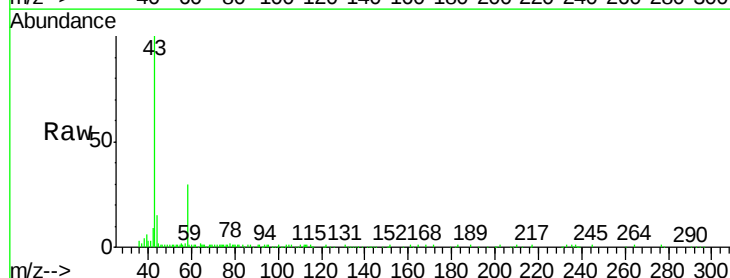
Instrument :
MSVOA_X
ClientSampleId :
TR-05-RO-4-012319

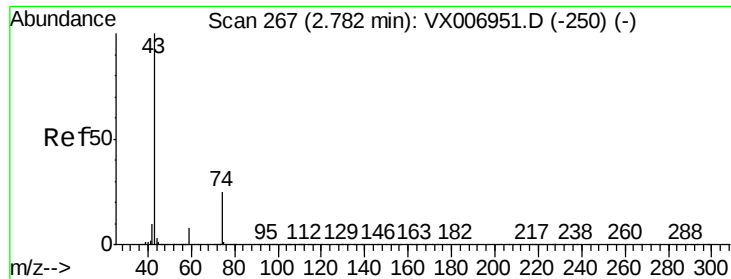
Tot Ion: 56 Resp: 1227
Ion Ratio Lower Upper
56 100
55 65.4 58.2 87.4



#16
Acetone
Concen: 10.391 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX007207.D
Acq: 24 Jan 2019 16:49

Tgt Ion: 43 Resp: 29004
Ion Ratio Lower Upper
43 100
58 29.4 25.0 37.6

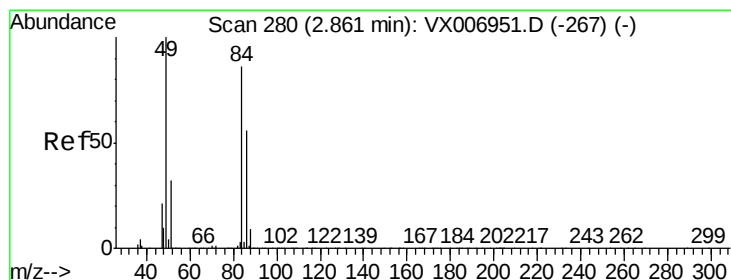
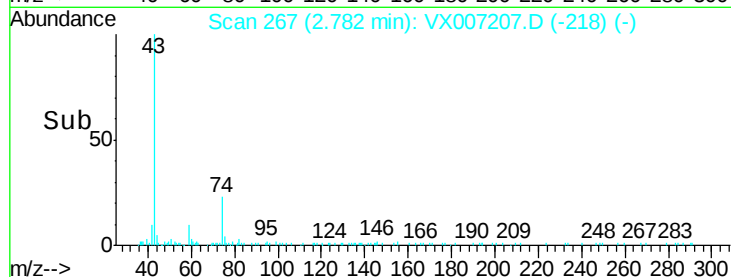
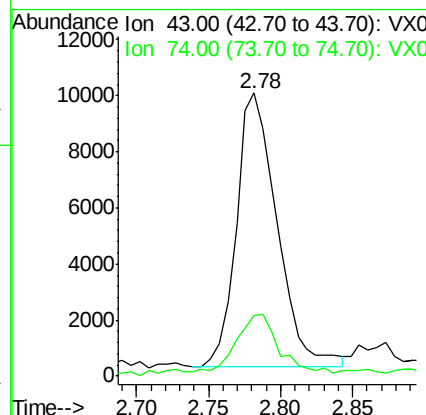
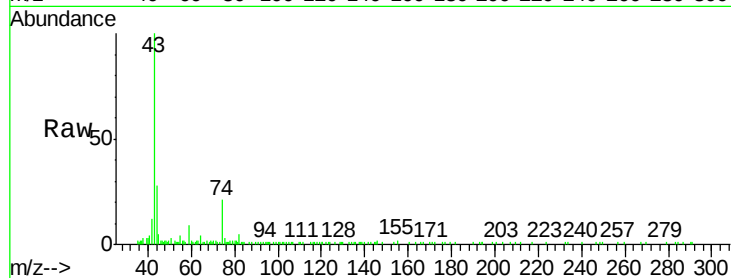




#18
Methyl Acetate
Concen: 2.370 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX007207.D
Acq: 24 Jan 2019 16:49

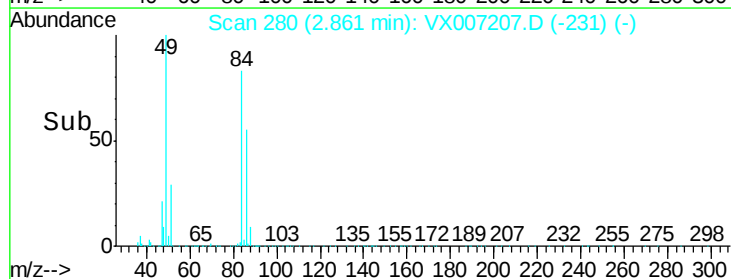
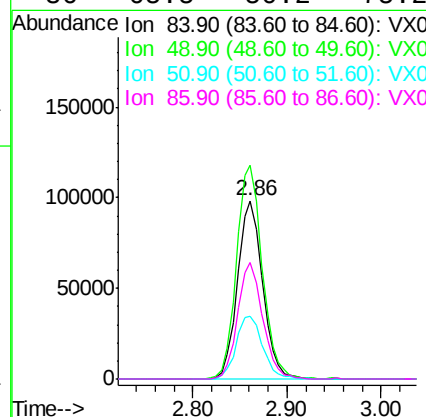
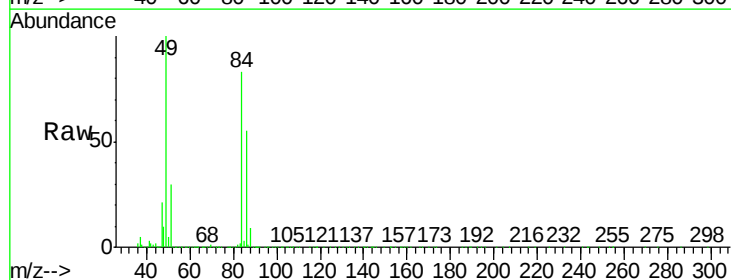
Instrument :
MSVOA_X
ClientSampleId :
TR-05-RO-4-012319

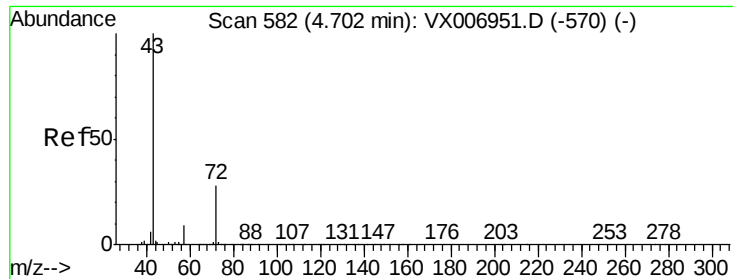
Tot Ion: 43 Resp: 19160
Ion Ratio Lower Upper
43 100
74 22.6 18.6 28.0



#20
Methylene Chloride
Concen: 34.172 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007207.D
Acq: 24 Jan 2019 16:49

Tgt Ion: 84 Resp: 182366
Ion Ratio Lower Upper
84 100
49 119.8 91.8 137.6
51 35.5 28.5 42.7
86 65.5 50.2 75.2

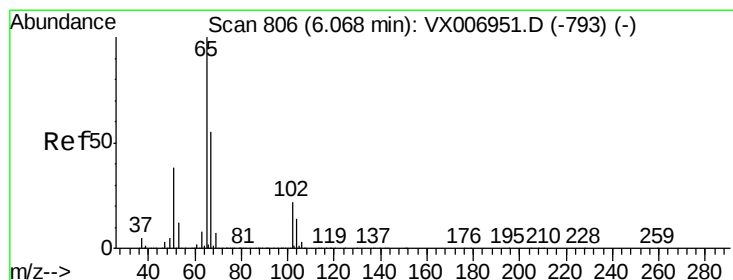
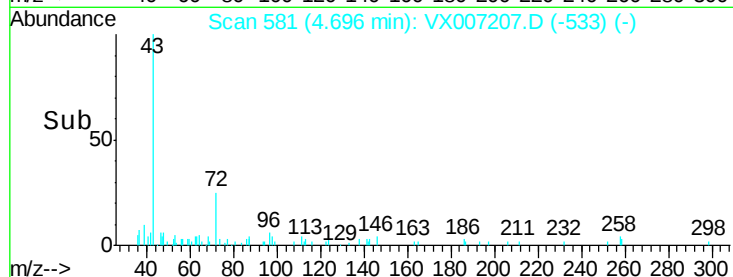
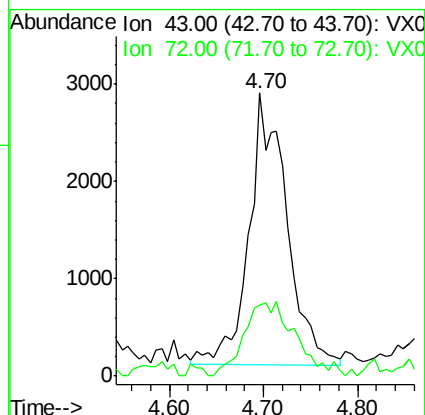
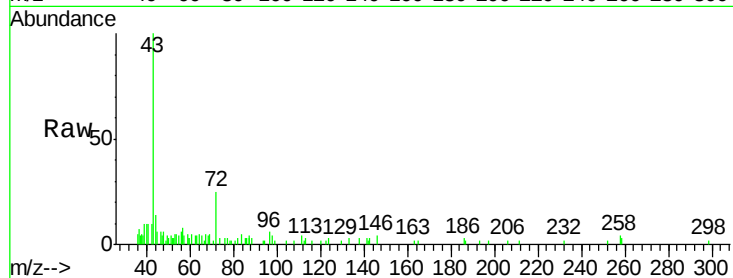




#25
2-Butanone
Concen: 1.959 ug/l
RT: 4.70 min Scan# 581
Delta R.T. -0.01 min
Lab File: VX007207.D
Acq: 24 Jan 2019 16:49

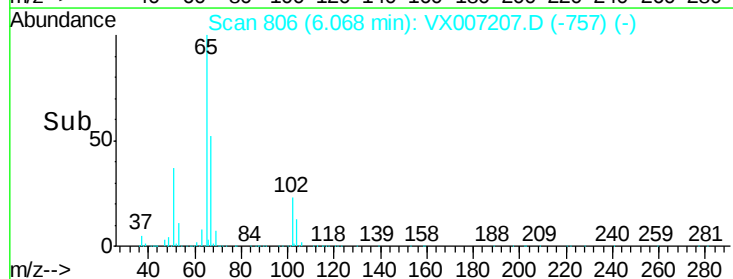
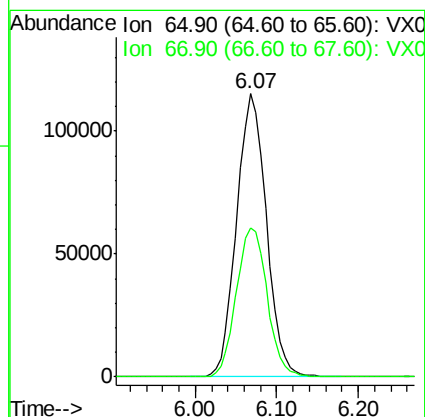
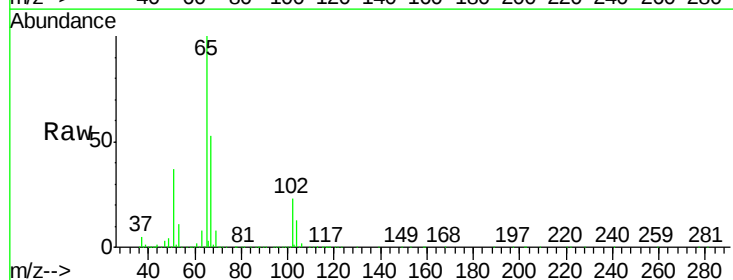
Instrument :
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ClientSampleId :
TR-05-RO-4-012319

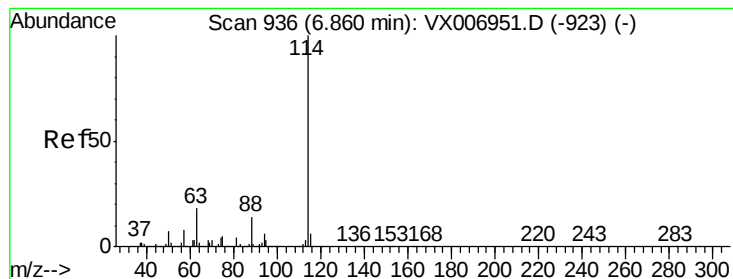
Tot Ion: 43 Resp: 7822
Ion Ratio Lower Upper
43 100
72 24.9 22.4 33.6



#33
1,2-Dichloroethane-d4
Concen: 51.659 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX007207.D
Acq: 24 Jan 2019 16:49

Tgt Ion: 65 Resp: 291665
Ion Ratio Lower Upper
65 100
67 54.4 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: VX007207.D

Acq: 24 Jan 2019 16:49

Instrument :

MSVOA_X

ClientSampleId :

TR-05-RO-4-012319

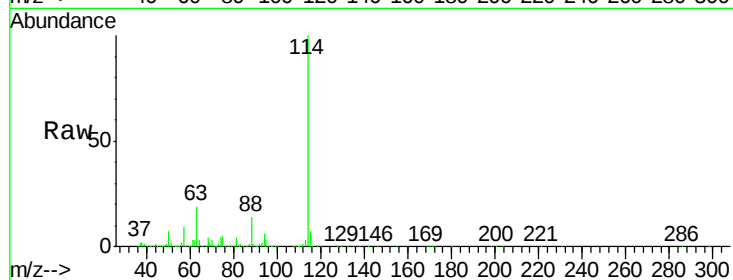
Tot Ion:114 Resp: 838536

Ion Ratio Lower Upper

114 100

63 18.8 0.0 34.8

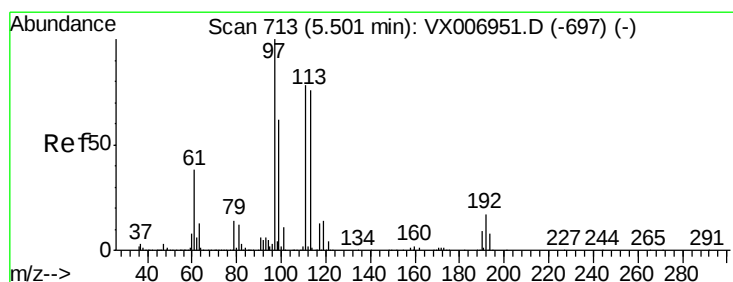
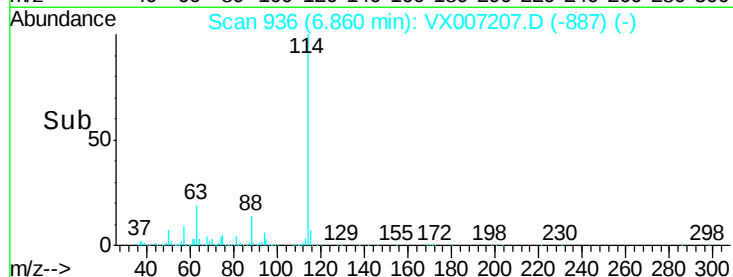
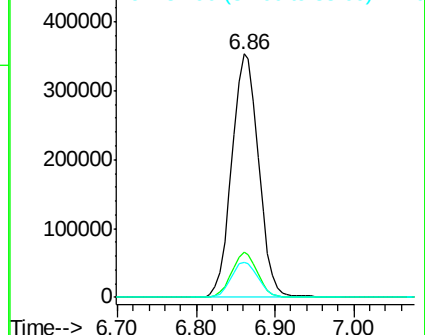
88 14.5 0.0 28.8



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: 48.448 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007207.D

Acq: 24 Jan 2019 16:49

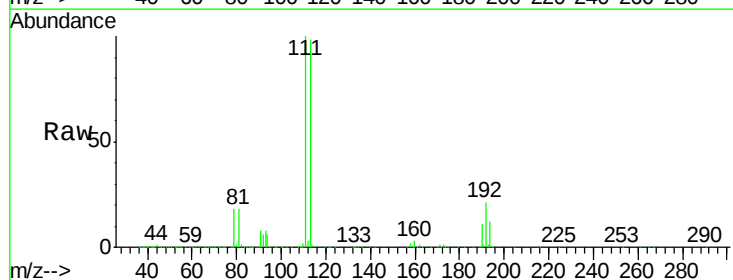
Tgt Ion:113 Resp: 260163

Ion Ratio Lower Upper

113 100

111 101.5 81.6 122.4

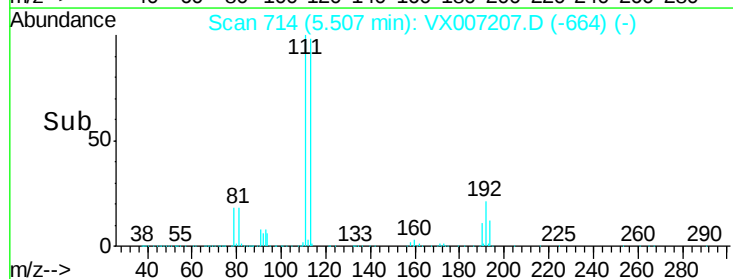
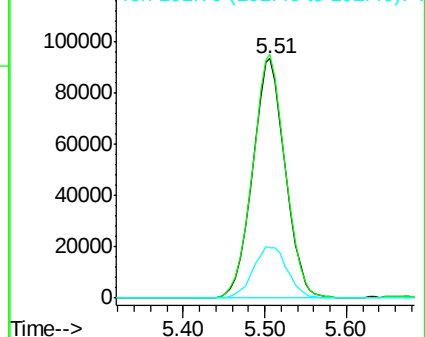
192 22.6 16.7 25.1

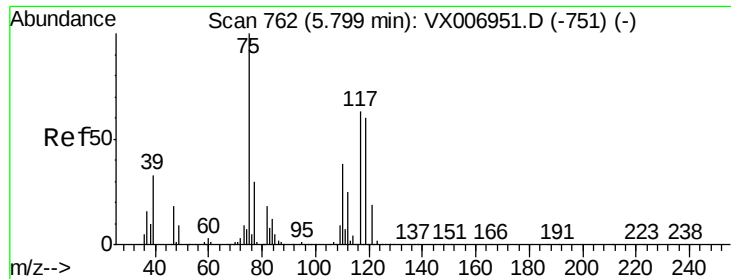


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

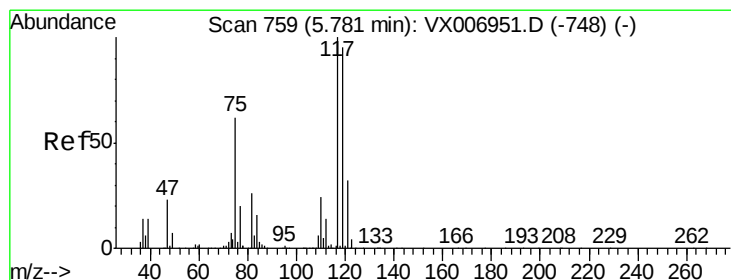
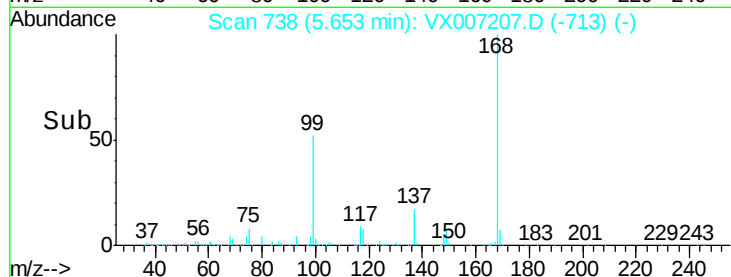
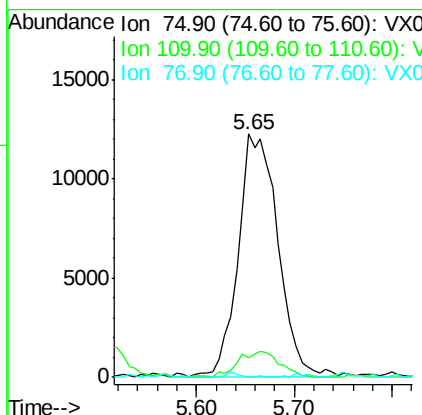
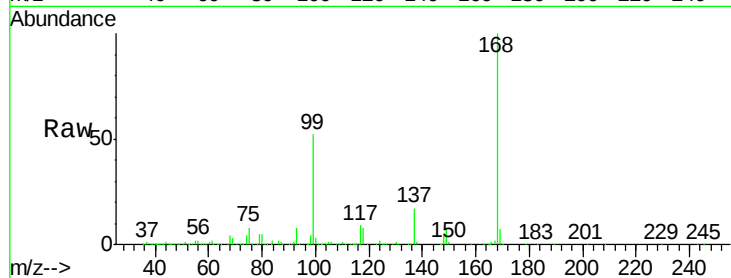




#36
 1,1-Dichloropropene
 Concen: 4.766 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.15 min
 Lab File: VX007207.D
 Acq: 24 Jan 2019 16:49

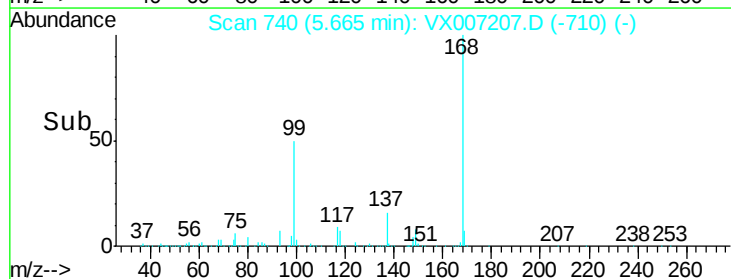
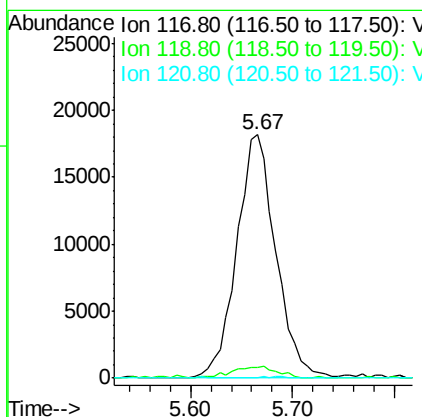
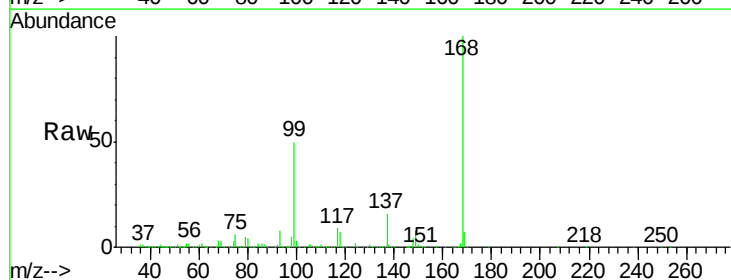
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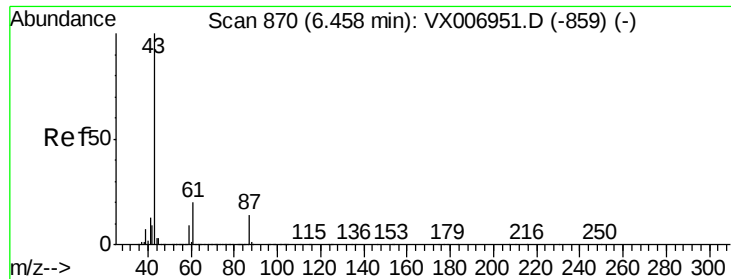
Tot Ion: 75 Resp: 34743
 Ion Ratio Lower Upper
 75 100
 110 11.3 20.2 60.5#
 77 0.1 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 6.600 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX007207.D
 Acq: 24 Jan 2019 16:49

Tgt Ion: 117 Resp: 48412
 Ion Ratio Lower Upper
 117 100
 119 4.4 79.4 119.2#
 121 0.0 24.0 36.0#





#43

Isopropyl Acetate

Concen: 2.361 ug/l

RT: 6.46 min Scan# 870

Delta R.T. 0.00 min

Lab File: VX007207.D

Acq: 24 Jan 2019 16:49

Instrument :

MSVOA_X

ClientSampleId :

TR-05-RO-4-012319

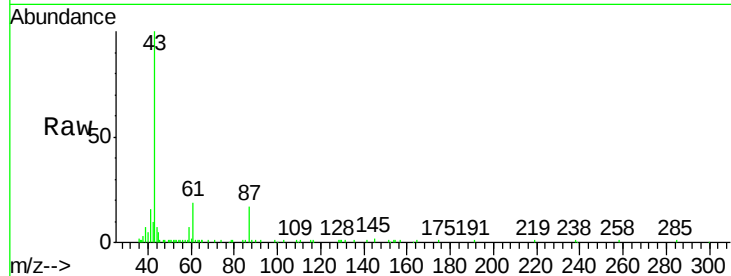
Tot Ion: 43 Resp: 29110

Ion Ratio Lower Upper

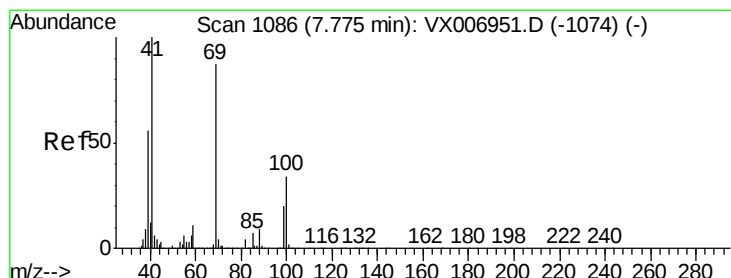
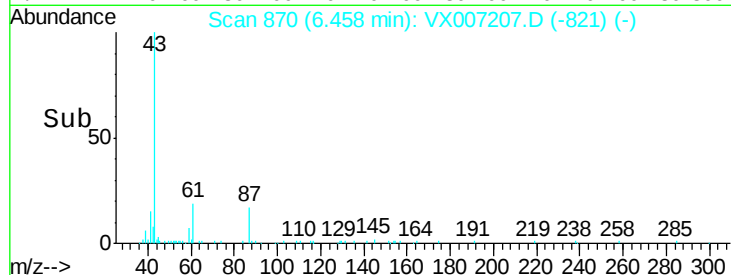
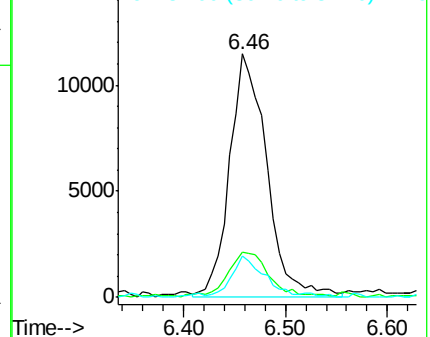
43 100

61 20.9 16.8 25.2

87 13.9 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: 2.746 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX007207.D

Acq: 24 Jan 2019 16:49

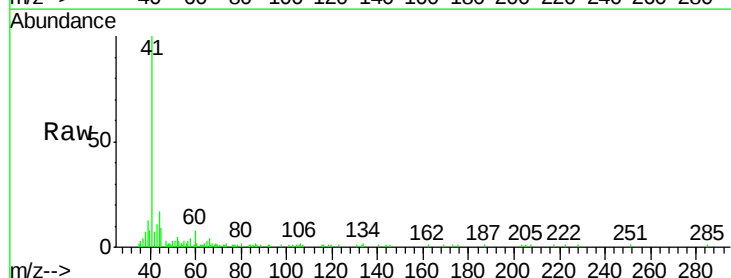
Tgt Ion: 41 Resp: 17386

Ion Ratio Lower Upper

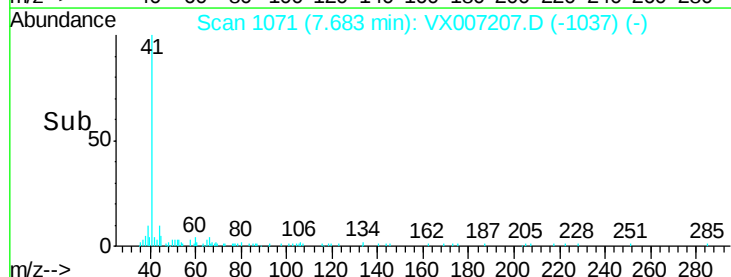
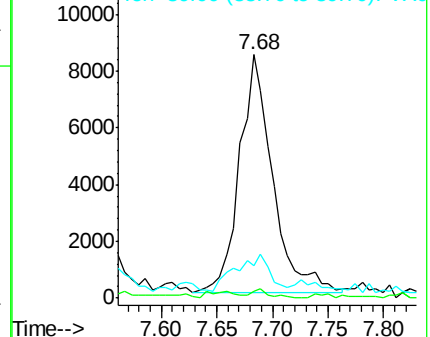
41 100

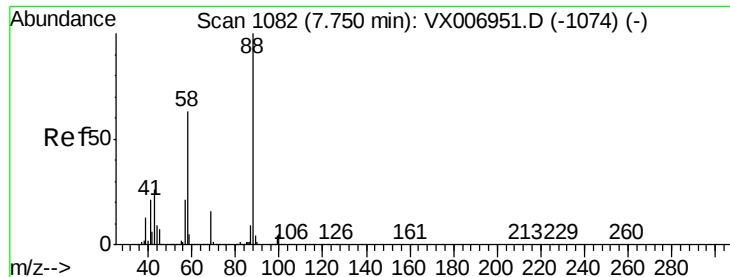
69 1.9 72.4 108.6#

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: 7.73 min Scan# 1078

Delta R.T. -0.02 min

Lab File: VX007207.D

Acq: 24 Jan 2019 16:49

Instrument :

MSVOA_X

ClientSampleId :

TR-05-RO-4-012319

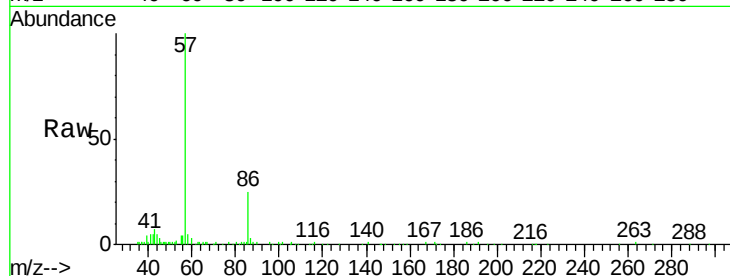
Tot Ion: 88 Resp: 83

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

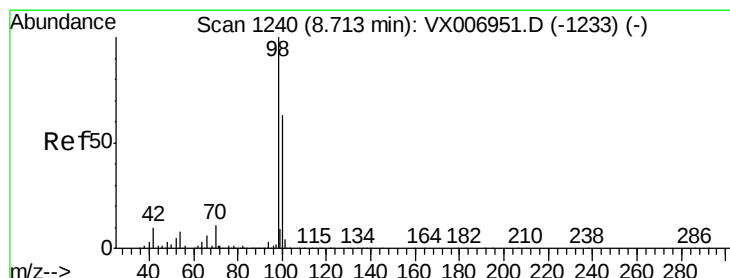
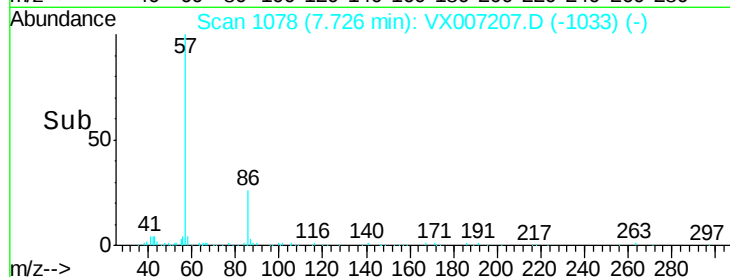
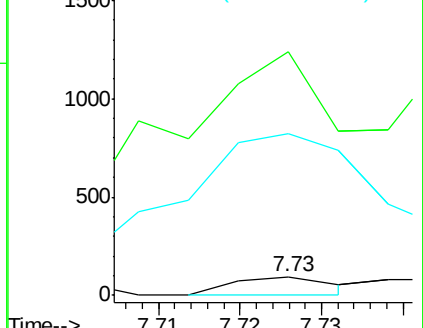
58 1134.9 51.0 76.4#



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: 51.199 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007207.D

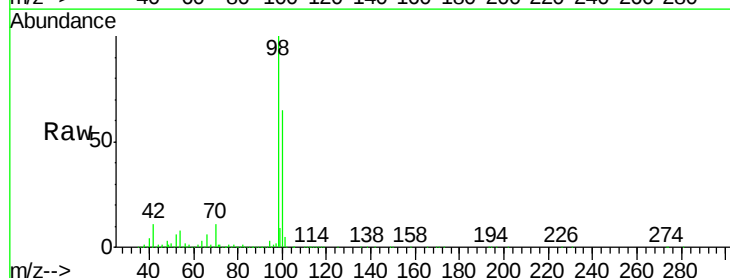
Acq: 24 Jan 2019 16:49

Tgt Ion: 98 Resp: 1006348

Ion Ratio Lower Upper

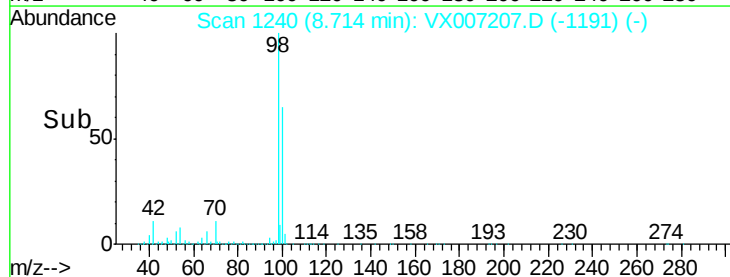
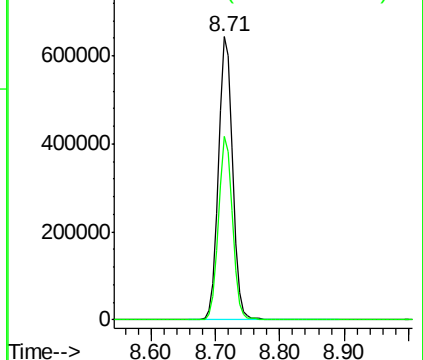
98 100

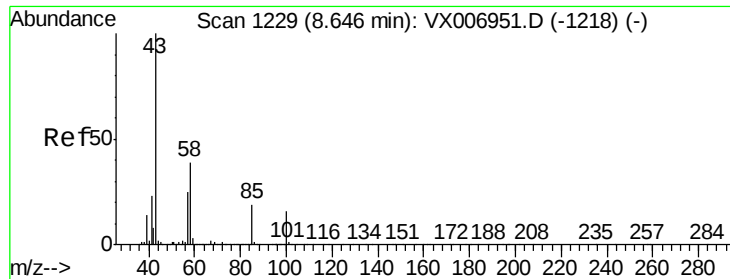
100 64.0 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

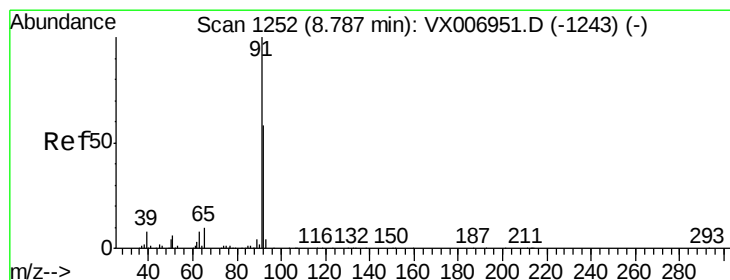
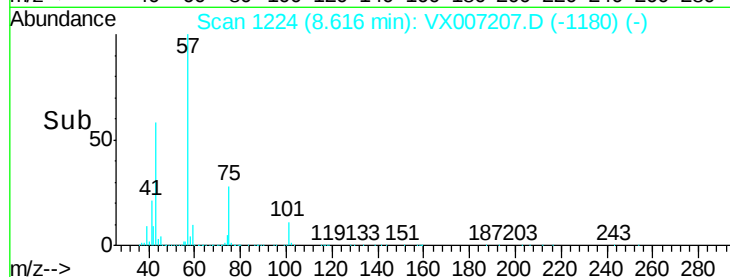
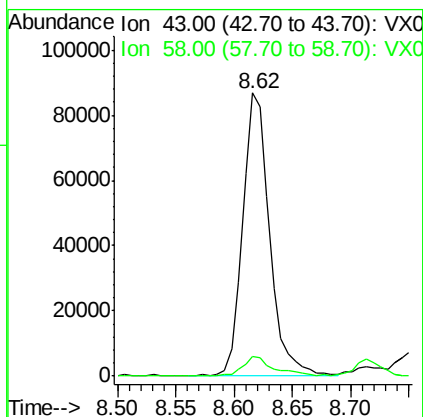
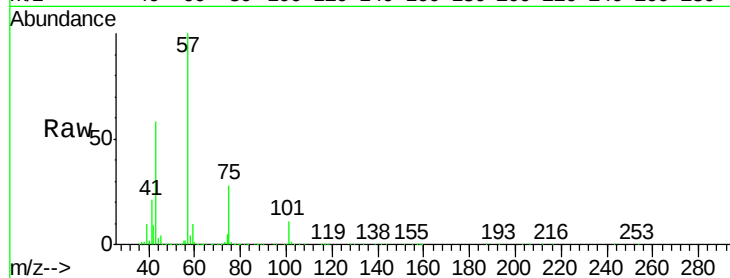




#51
4-Methyl-2-Pentanone
Concen: 17.537 ug/l
RT: 8.62 min Scan# 1224
Delta R.T. -0.03 min
Lab File: VX007207.D
Acq: 24 Jan 2019 16:49

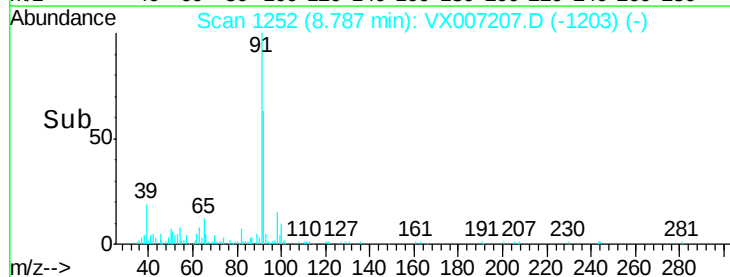
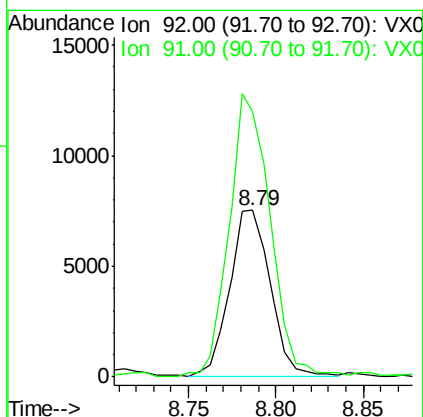
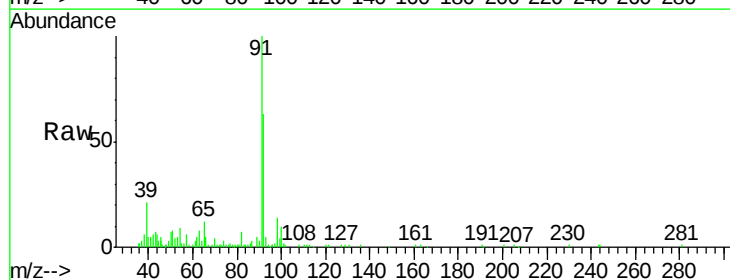
Instrument :
MSVOA_X
ClientSampleId :
TR-05-RO-4-012319

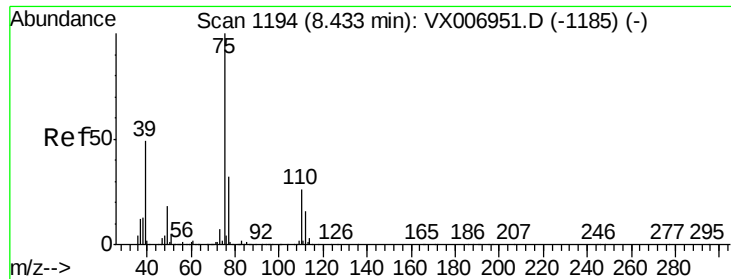
Tot Ion: 43 Resp: 138947
Ion Ratio Lower Upper
43 100
58 8.1 31.8 47.6#



#52
Toluene
Concen: 0.861 ug/l
RT: 8.79 min Scan# 1252
Delta R.T. 0.00 min
Lab File: VX007207.D
Acq: 24 Jan 2019 16:49

Tgt Ion: 92 Resp: 12306
Ion Ratio Lower Upper
92 100
91 170.0 137.6 206.4





#54

cis-1,3-Dichloropropene

Concen: 8.325 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.19 min

Lab File: VX007207.D

Acq: 24 Jan 2019 16:49

Instrument :

MSVOA_X

ClientSampleId :

TR-05-RO-4-012319

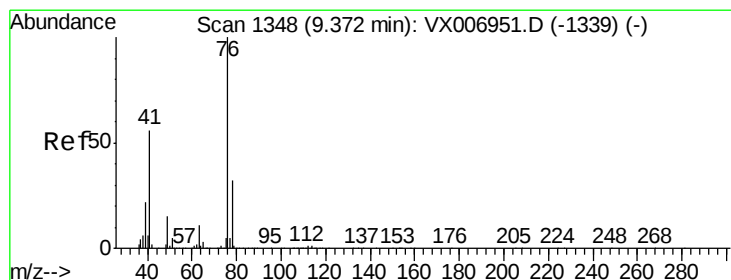
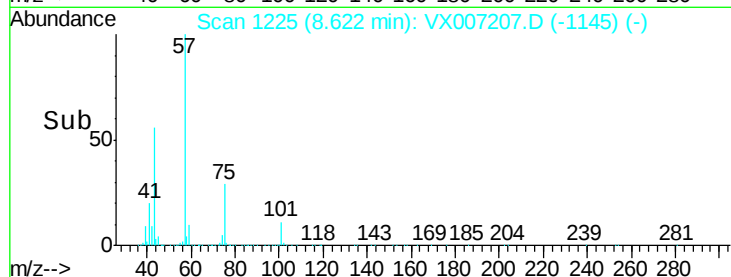
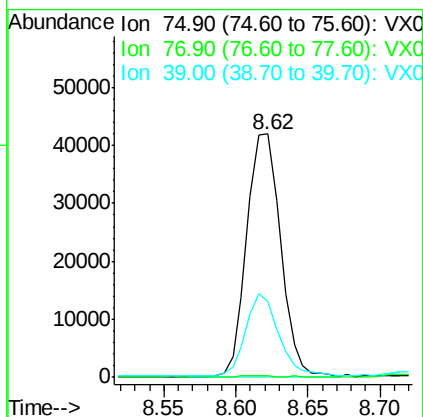
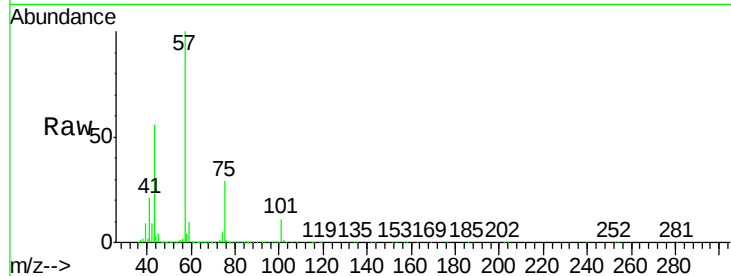
Tot Ion: 75 Resp: 68203

Ion Ratio Lower Upper

75 100

77 0.7 26.2 39.2#

39 30.4 36.7 55.1#



#57

1,3-Dichloropropane

Concen: 1.769 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007207.D

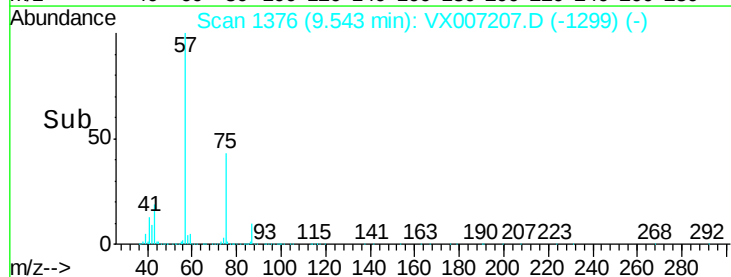
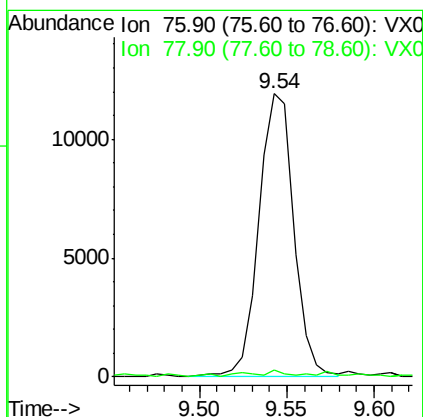
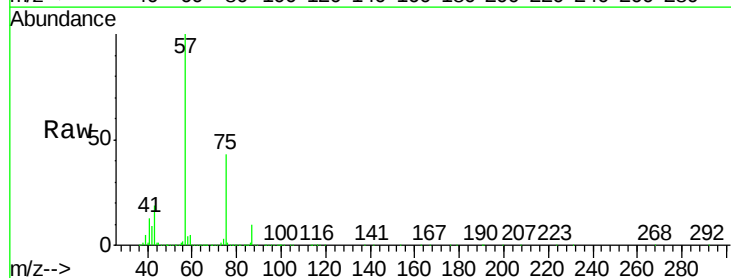
Acq: 24 Jan 2019 16:49

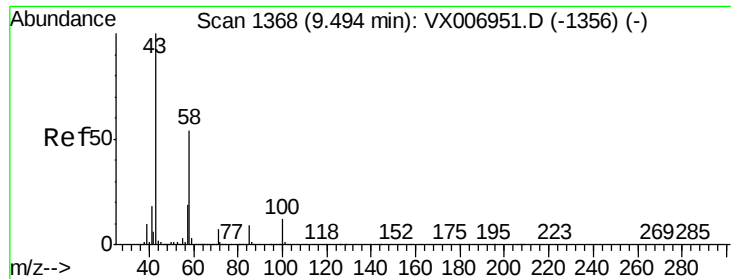
Tgt Ion: 76 Resp: 16587

Ion Ratio Lower Upper

76 100

78 2.2 26.0 39.0#





#59

2-Hexanone

Concen: 35.584 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX007207.D

Acq: 24 Jan 2019 16:49

Instrument :

MSVOA_X

ClientSampleId :

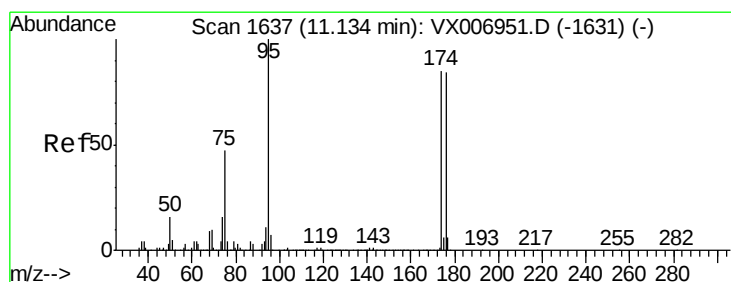
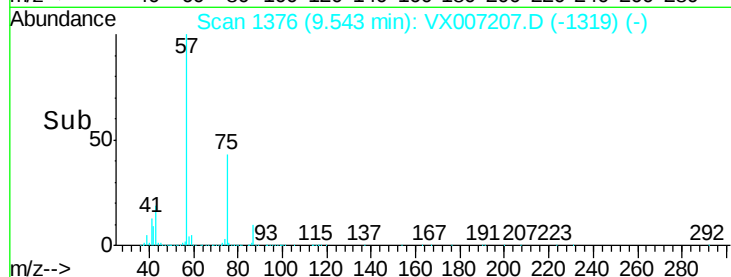
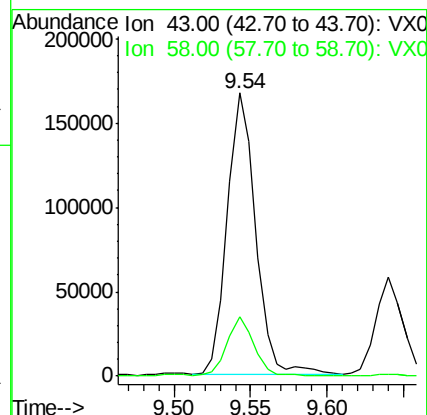
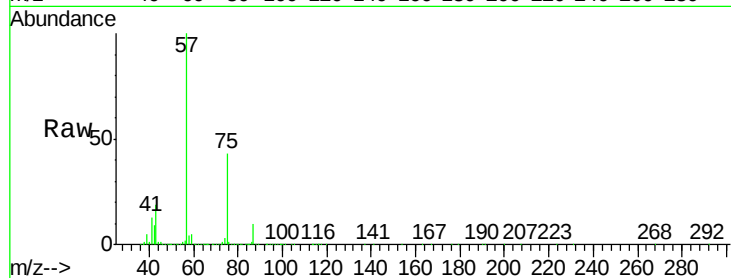
TR-05-RO-4-012319

Tot Ion: 43 Resp: 214848

Ion Ratio Lower Upper

43 100

58 20.3 27.7 83.1#



#62

4-Bromofluorobenzene

Concen: 51.657 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007207.D

Acq: 24 Jan 2019 16:49

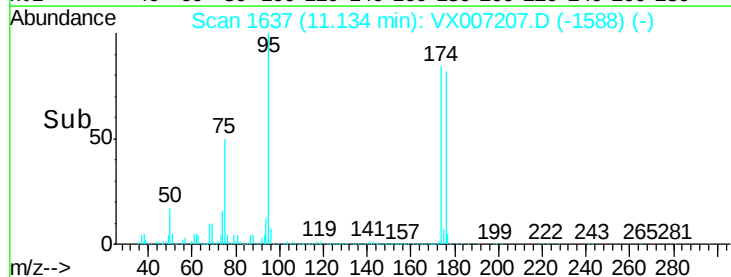
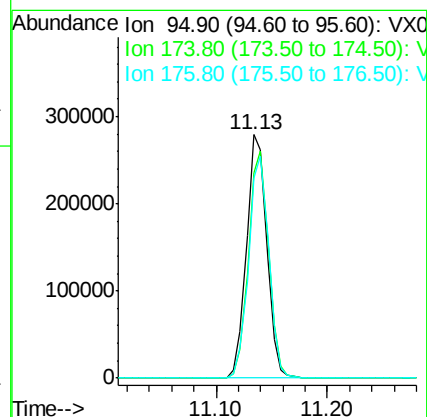
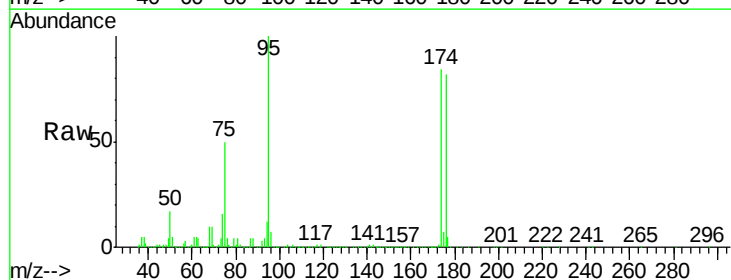
Tgt Ion: 95 Resp: 353976

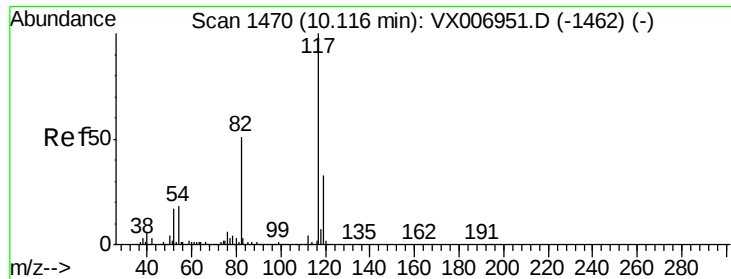
Ion Ratio Lower Upper

95 100

174 92.2 0.0 182.2

176 90.5 0.0 178.8

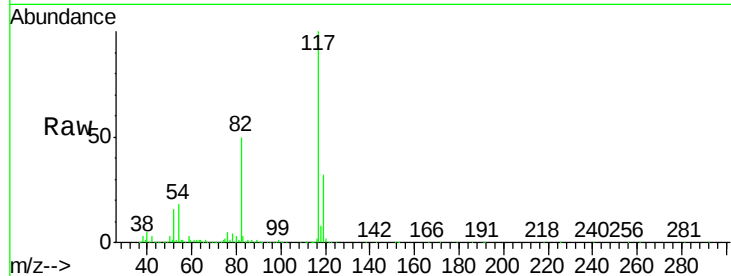




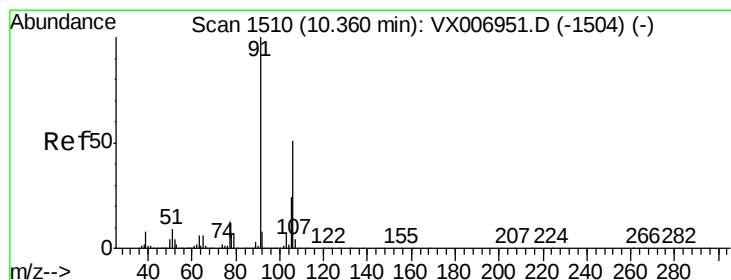
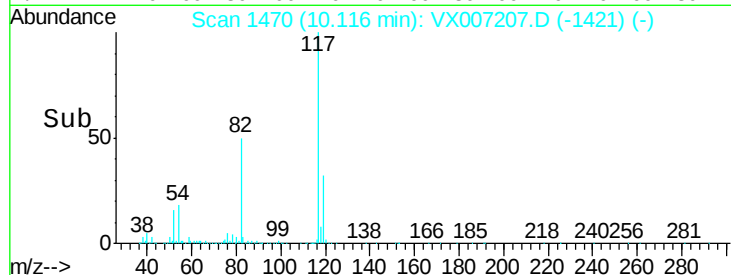
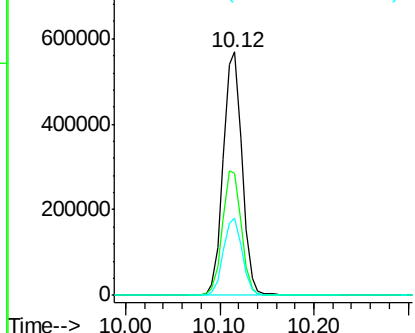
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX007207.D
Acq: 24 Jan 2019 16:49

Instrument :
MSVOA_X
ClientSampleId :
TR-05-RO-4-012319

Tot Ion:117 Resp: 788973
Ion Ratio Lower Upper
117 100
82 50.3 41.0 61.6
119 32.0 25.4 38.0

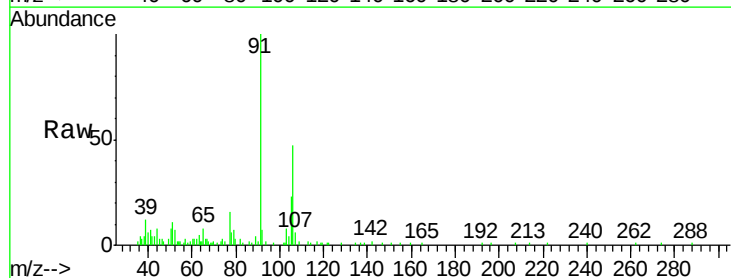


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

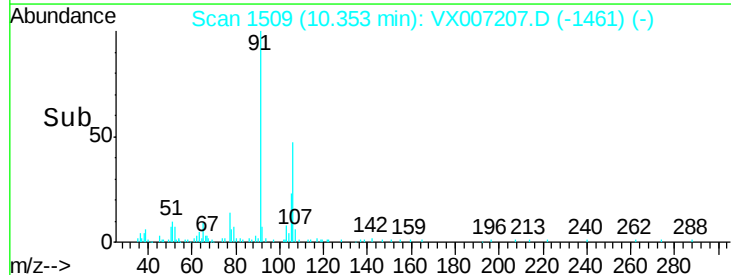
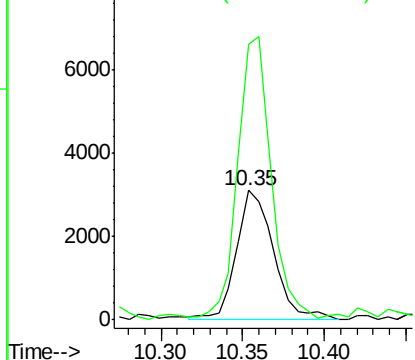


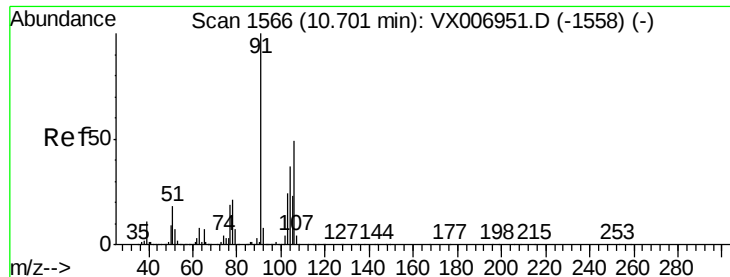
#68
m/p-Xylenes
Concen: 0.441 ug/l
RT: 10.35 min Scan# 1509
Delta R.T. -0.01 min
Lab File: VX007207.D
Acq: 24 Jan 2019 16:49

Tgt Ion:106 Resp: 4934
Ion Ratio Lower Upper
106 100
91 192.0 155.8 233.6



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0





#69

o-Xylene

Concen: 0.260 ug/l

RT: 10.70 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VX007207.D

Acq: 24 Jan 2019 16:49

Instrument :

MSVOA_X

ClientSampleId :

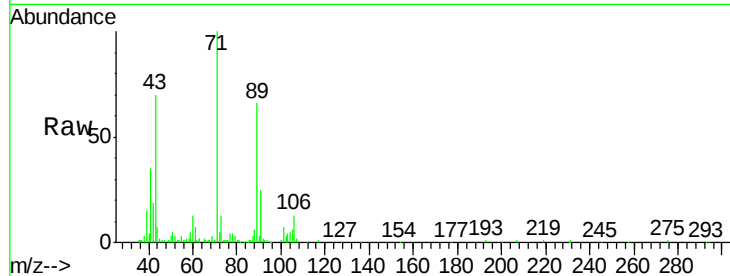
TR-05-RO-4-012319

Tot Ion:106 Resp: 2842

Ion Ratio Lower Upper

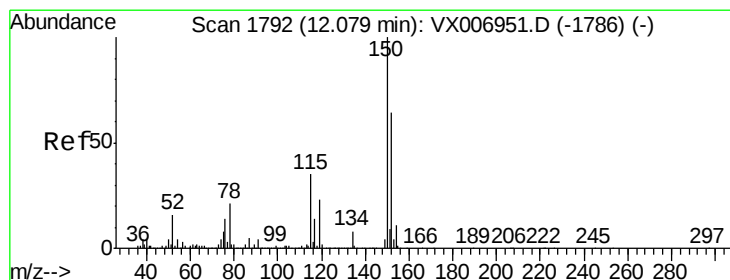
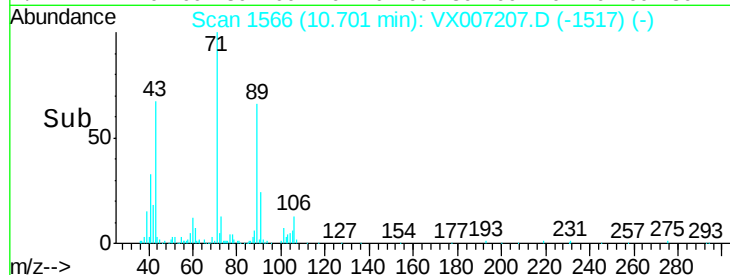
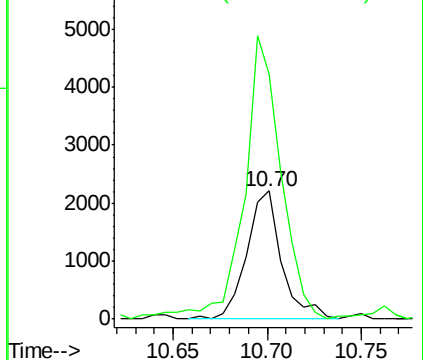
106 100

91 233.0 101.3 303.7



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: VX007207.D

Acq: 24 Jan 2019 16:49

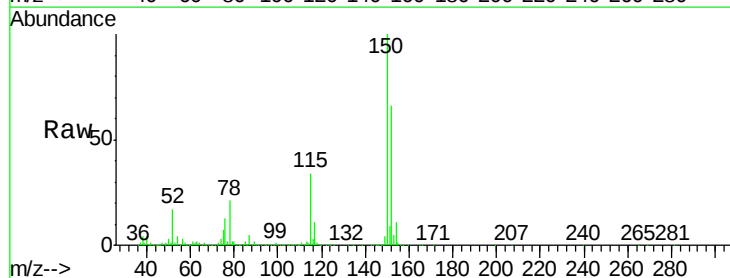
Tgt Ion:152 Resp: 380861

Ion Ratio Lower Upper

152 100

115 54.5 39.1 117.2

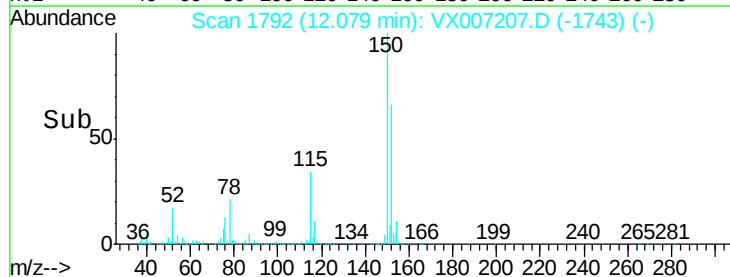
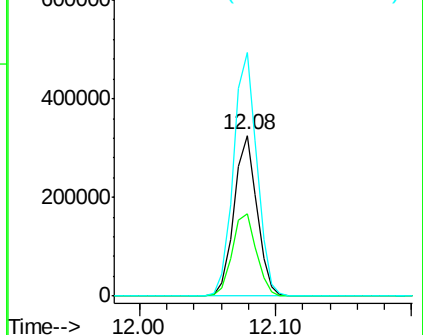
150 155.1 0.0 344.8

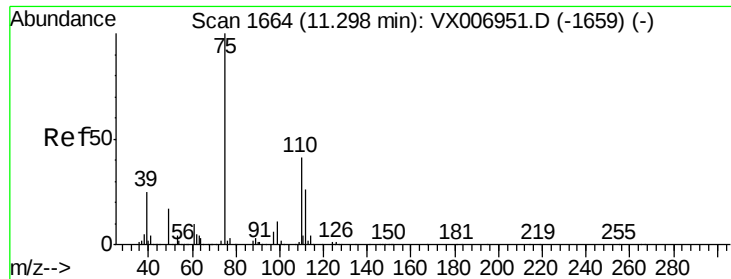


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

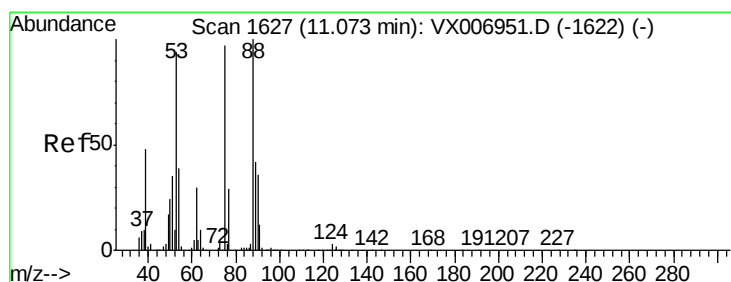
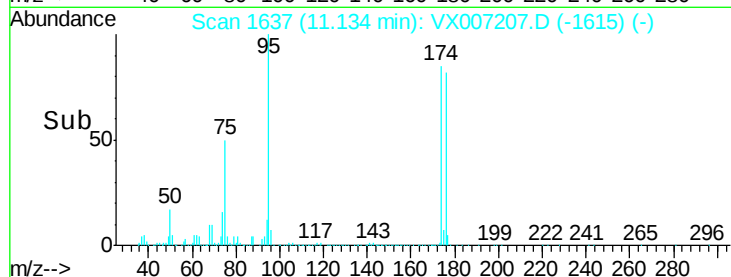
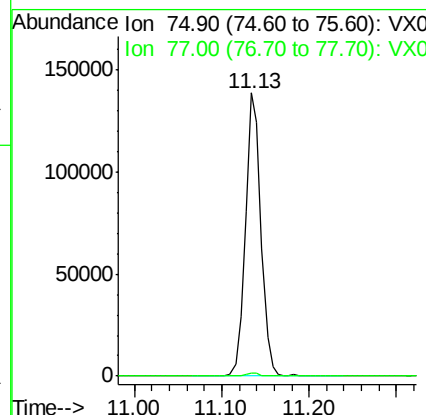
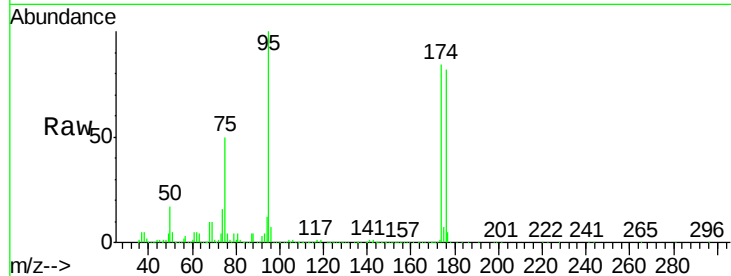




#76
 1,2,3-Trichloropropane
 Concen: 22.270 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX007207.D
 Acq: 24 Jan 2019 16:49

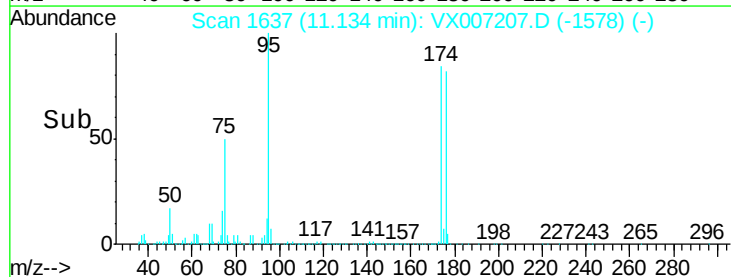
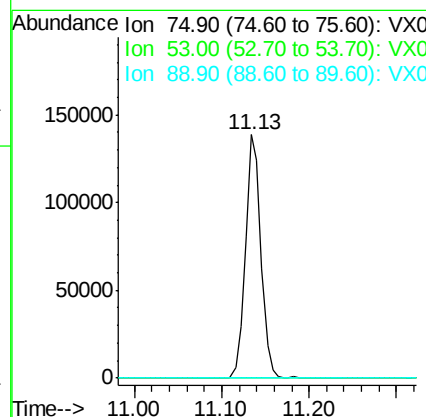
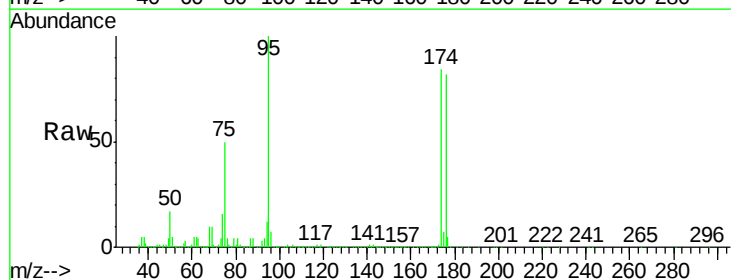
Instrument :
 MSVOA_X
 ClientSampleId :
 TR-05-RO-4-012319

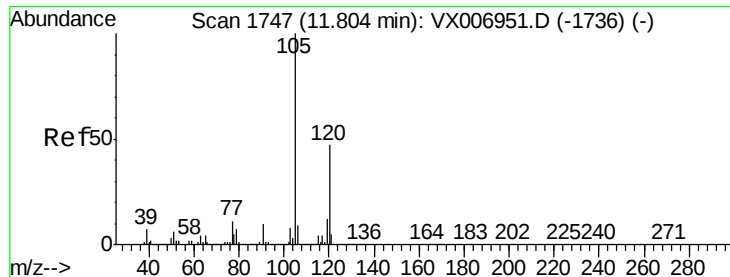
Tot Ion: 75 Resp: 171882
 Ion Ratio Lower Upper
 75 100
 77 1.3 18.5 55.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.907 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX007207.D
 Acq: 24 Jan 2019 16:49

Tgt Ion: 75 Resp: 171882
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.7 119.5#
 89 0.2 38.0 57.0#





#84

1,2,4-Trimethylbenzene

Concen: 0.555 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX007207.D

Acq: 24 Jan 2019 16:49

Instrument :

MSVOA_X

ClientSampleId :

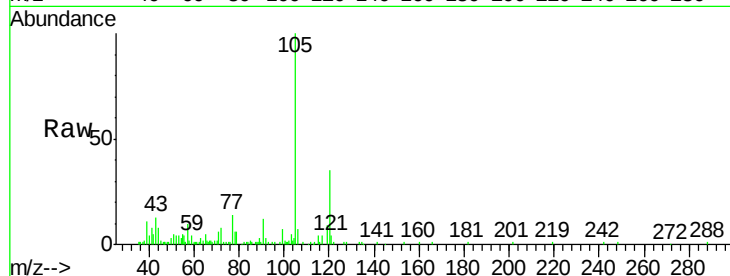
TR-05-RO-4-012319

Tot Ion:105 Resp: 12519

Ion Ratio Lower Upper

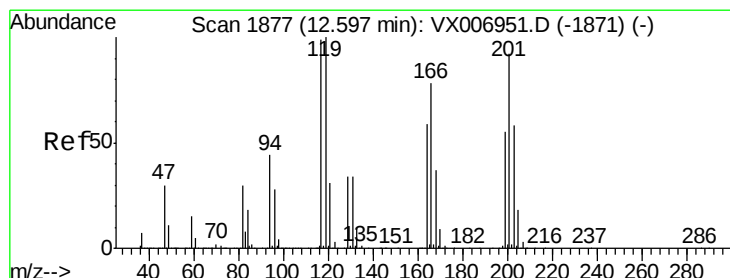
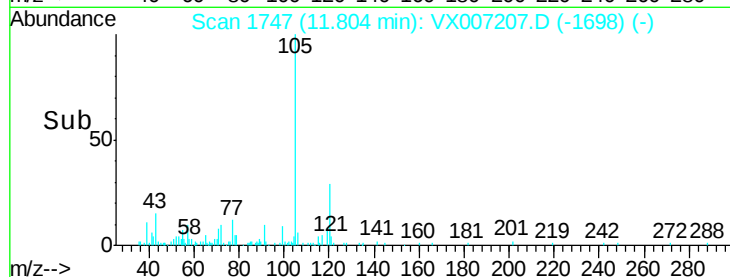
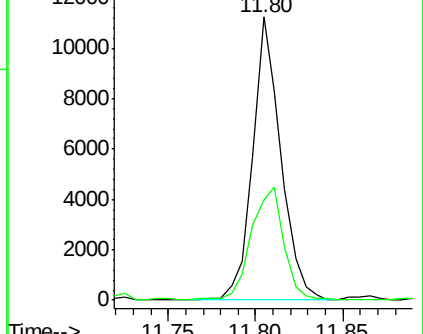
105 100

120 46.5 23.2 69.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#90

Hexachloroethane

Concen: 3.009 ug/l

RT: 12.58 min Scan# 1875

Delta R.T. -0.01 min

Lab File: VX007207.D

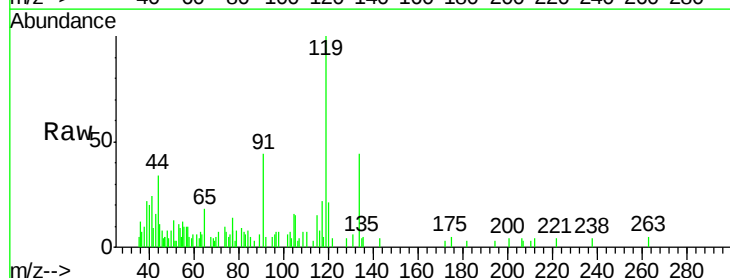
Acq: 24 Jan 2019 16:49

Tgt Ion:117 Resp: 408

Ion Ratio Lower Upper

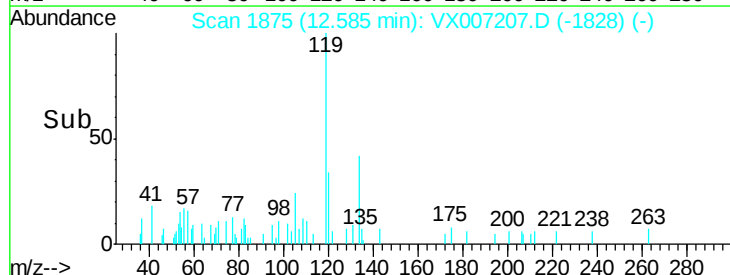
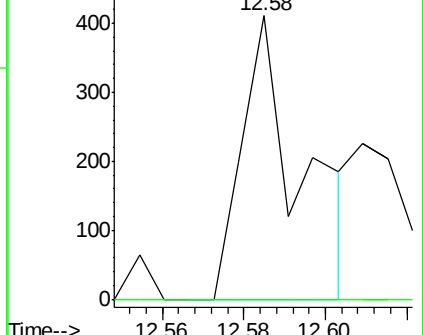
117 100

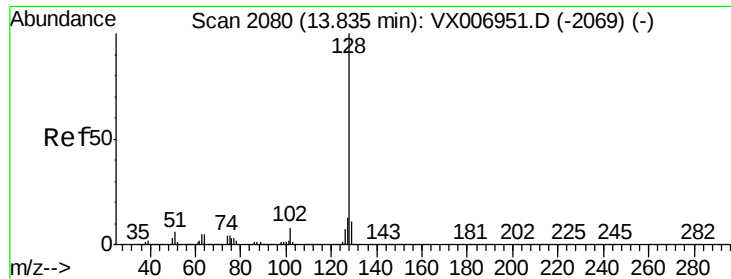
201 0.0 42.9 128.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#95

Naphthalene

Concen: 1.803 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX007207.D

Acq: 24 Jan 2019 16:49

Instrument :

MSVOA_X

ClientSampleId :

TR-05-RO-4-012319

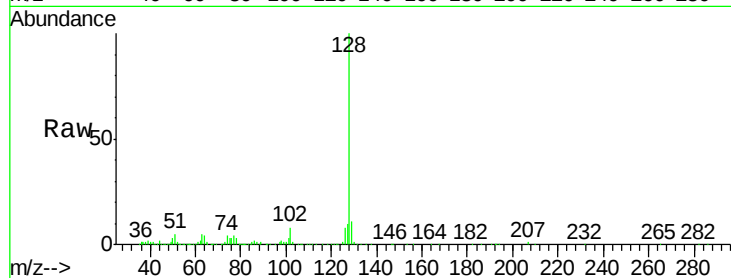
Tot Ion:128 Resp: 49483

Ion Ratio Lower Upper

128 100

127 12.7 10.1 15.1

129 11.4 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

