

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061618\
 Data File : VN049282.D
 Acq On : 16 Jun 2018 1:17
 Operator : MD\SY
 Sample : PB110255ZHE#13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 16 03:14:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:02:01 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1201062	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1934232	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1527426	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	349328	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	795774	49.95	ug/l	0.00
Spiked Amount			Recovery	=	99.90%	
35) Dibromofluoromethane	7.59	113	717120	45.83	ug/l	0.00
Spiked Amount			Recovery	=	91.66%	
50) Toluene-d8	10.09	98	2656715	44.59	ug/l	0.00
Spiked Amount			Recovery	=	89.18%	
62) 4-Bromofluorobenzene	12.40	95	573764	29.12	ug/l	0.00
Spiked Amount			Recovery	=	58.24%	

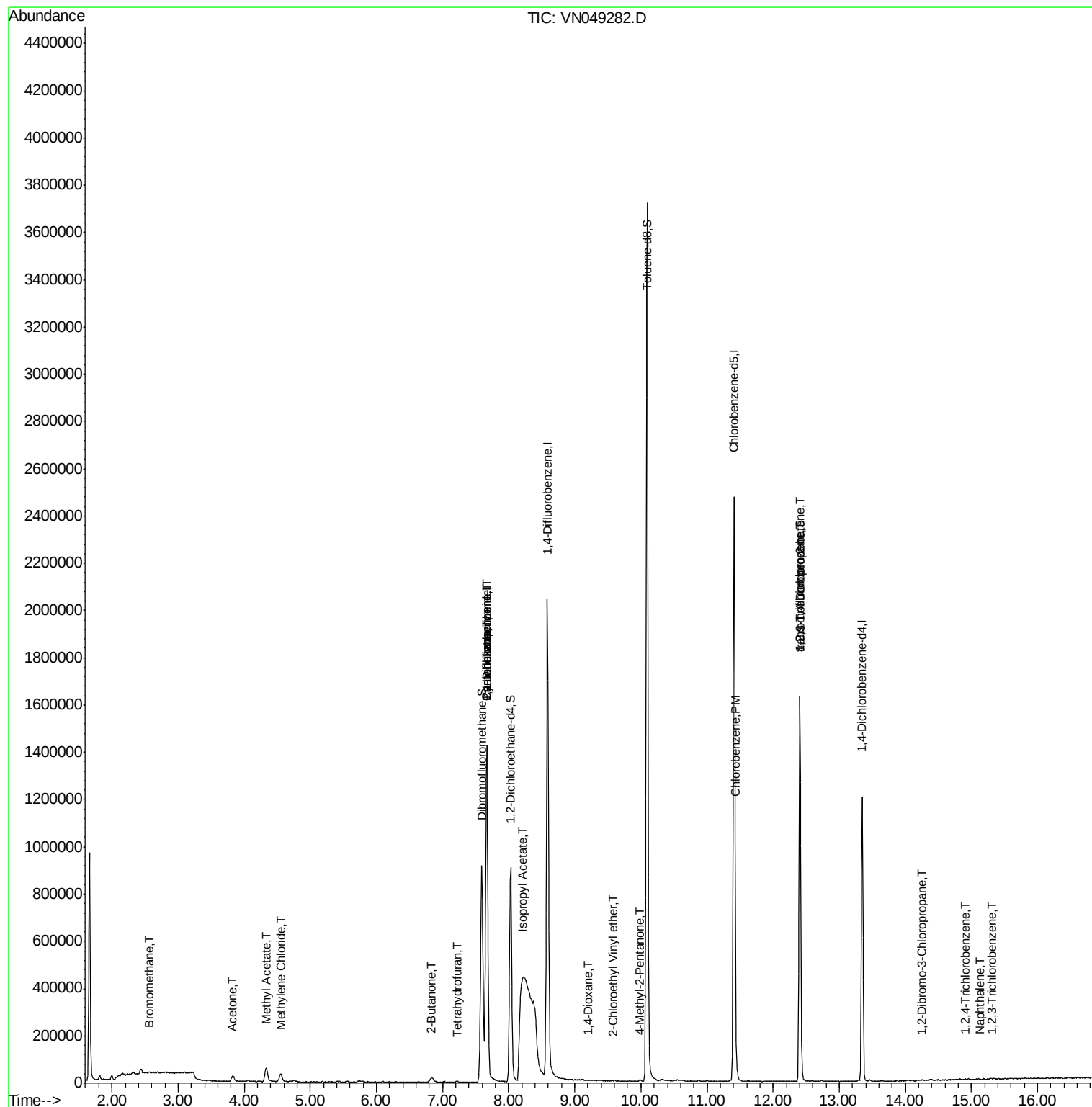
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	3146	0.32	ug/l	87
16) Acetone	3.82	43	41026	10.61	ug/l	# 84
18) Methyl Acetate	4.33	43	117812	9.99	ug/l	96
20) Methylene Chloride	4.55	84	24452	1.51	ug/l	90
25) 2-Butanone	6.83	43	3531	0.68	ug/l	# 77
29) Tetrahydrofuran	7.23	42	1221	0.37	ug/l	# 81
31) Cyclohexane	7.66	56	22158	0.77	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	87510	3.95	ug/l	# 50
38) Carbon Tetrachloride	7.67	117	108400	4.72	ug/l	# 17
43) Isopropyl Acetate	8.21	43	528278	22.94	ug/l	# 65
49) 1,4-Dioxane	9.19	88	95	0.63	ug/l	# 1
51) 4-Methyl-2-Pentanone	9.99	43	4047	0.34	ug/l	93
58) 2-Chloroethyl Vinyl ether	9.58	63	65	14.34	ug/l	# 51
65) Chlorobenzene	11.44	112	29416	0.75	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.51	83	157	Below	Cal	# 26
76) 1,2,3-Trichloropropane	12.40	75	273643	45.91	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	273643	145.10	ug/l	# 9
90) Hexachloroethane	13.63	117	30	Below	Cal	# 9
92) 1,2-Dibromo-3-Chloropropan	14.26	75	590	0.55	ug/l	# 4
93) 1,2,4-Trichlorobenzene	14.91	180	184	4.77	ug/l	# 23
95) Naphthalene	15.13	128	615	2.14	ug/l	# 69
96) 1,2,3-Trichlorobenzene	15.32	180	210	3.49	ug/l	# 16

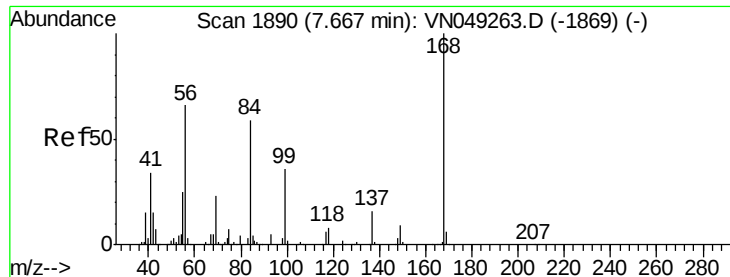
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 16 Jun 2018 1:17
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Instrument :
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Quant Time: Jun 16 03:14:34 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:02:01 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049282.D

Acq: 16 Jun 2018 1:17

Instrument :

MSVOA_N

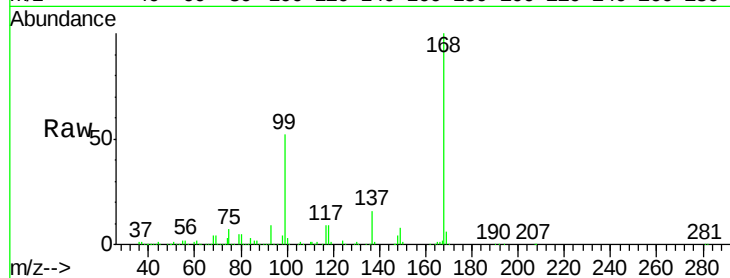
ClientSampleId :

Tot Ion:168 Resp: 1201062

Ion Ratio Lower Upper

168 100

99 51.8 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): VN049282.D (-1797) (-)

Ion 98.90 (98.60 to 99.60): VN049282.D (-1797) (-)

7.67

500000

400000

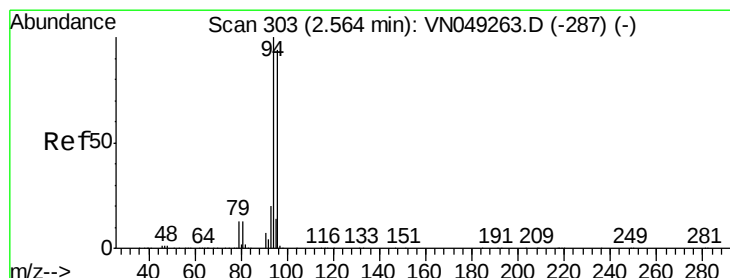
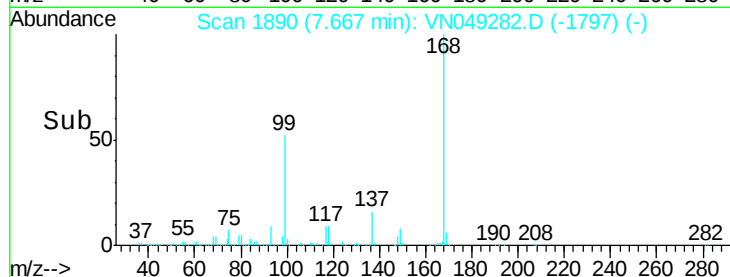
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80



#5

Bromomethane

Concen: 0.32 ug/l

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN049282.D

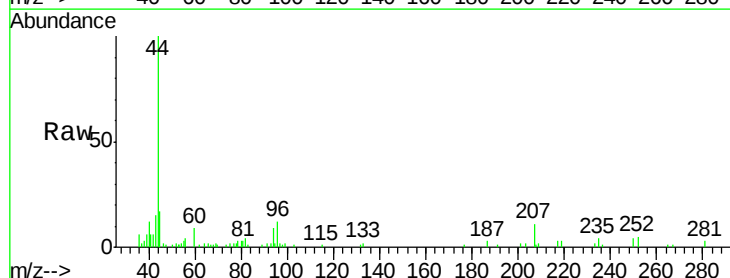
Acq: 16 Jun 2018 1:17

Tgt Ion: 94 Resp: 3146

Ion Ratio Lower Upper

94 100

96 103.6 72.8 109.2



Abundance Ion 93.90 (93.60 to 94.60): VN049282.D (-210) (-)

Ion 95.90 (95.60 to 96.60): VN049282.D (-210) (-)

2.57

2000

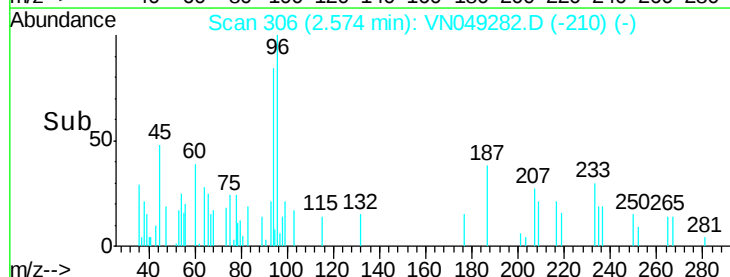
1500

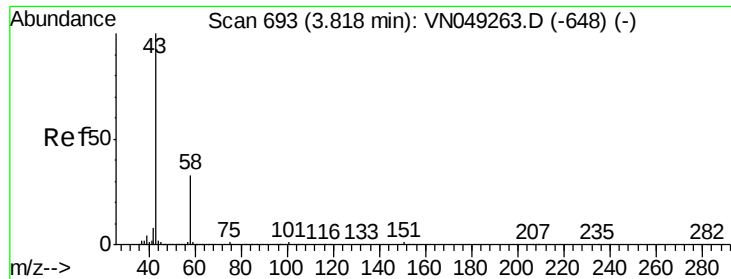
1000

500

0

Time--> 2.55 2.60

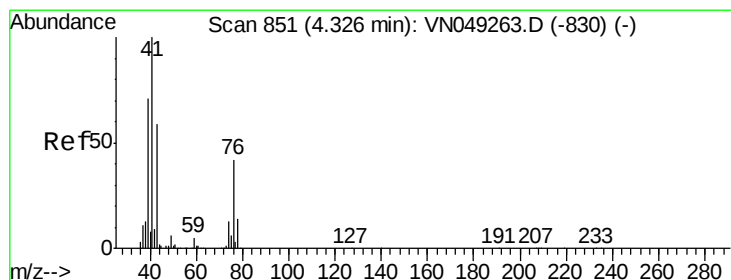
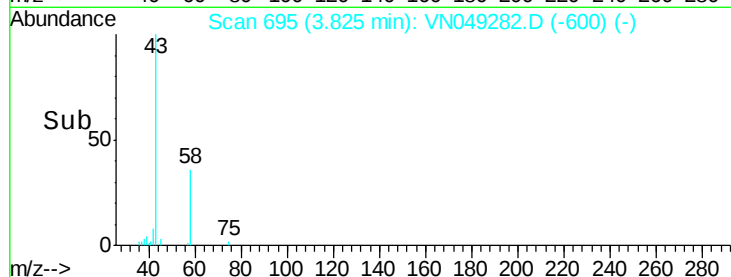
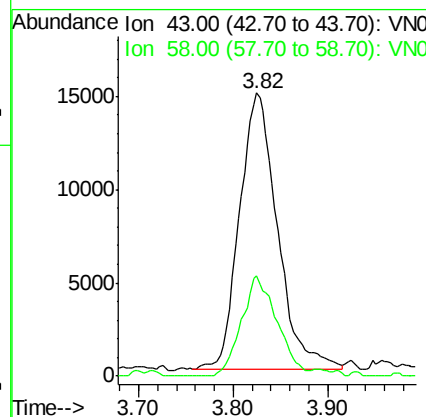
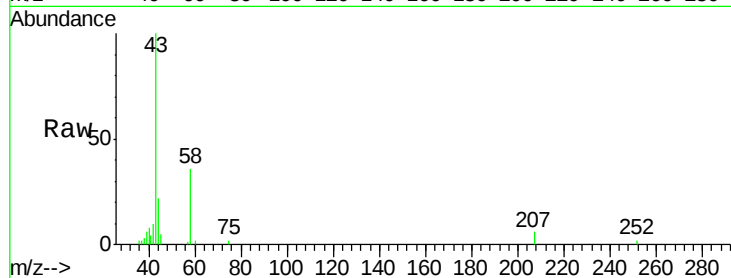




#16
Acetone
Concen: 10.61 ug/l
RT: 3.82 min Scan# 695
Delta R.T. 0.01 min
Lab File: VN049282.D
Acq: 16 Jun 2018 1:17

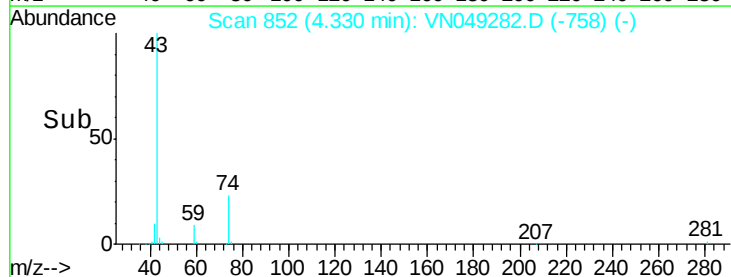
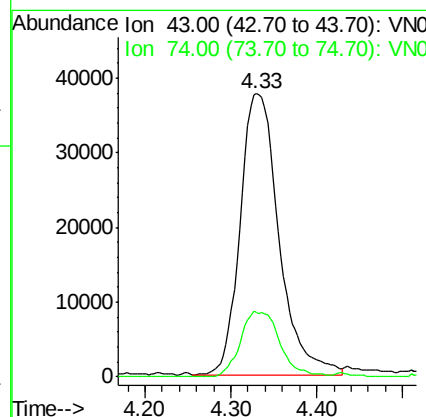
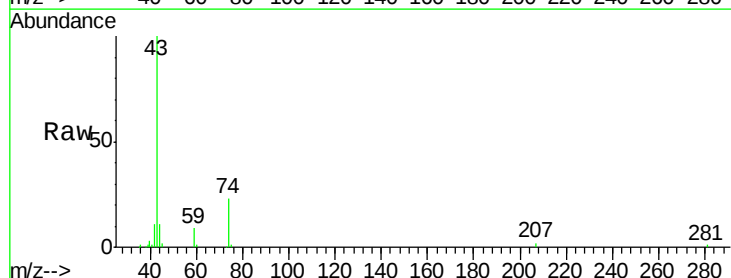
Instrument :
MSVOA_N
ClientSampleId :

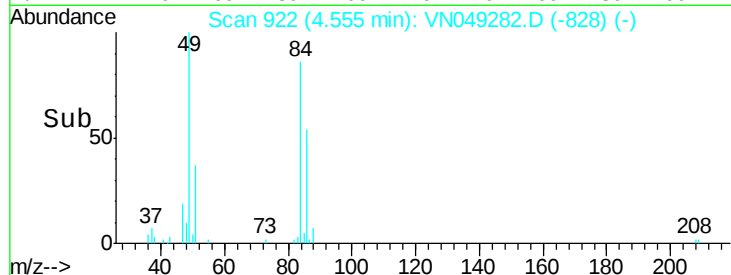
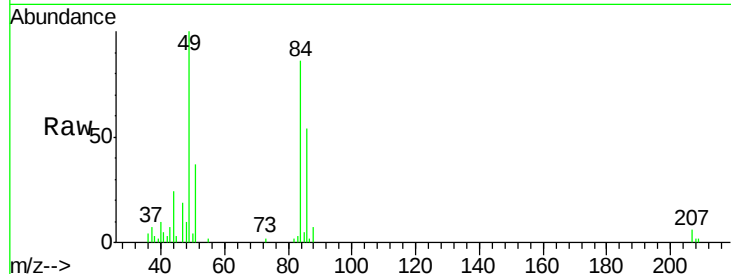
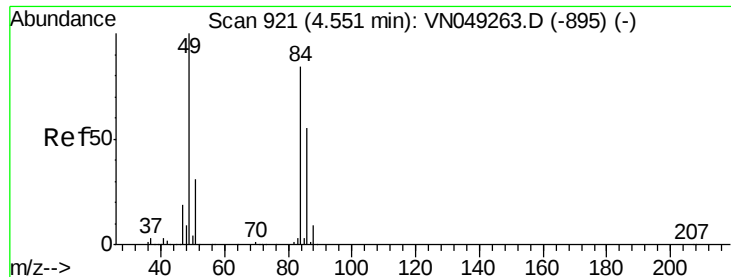
Tot Ion: 43 Resp: 41026
Ion Ratio Lower Upper
43 100
58 36.5 22.4 33.6#



#18
Methyl Acetate
Concen: 9.99 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN049282.D
Acq: 16 Jun 2018 1:17

Tgt Ion: 43 Resp: 117812
Ion Ratio Lower Upper
43 100
74 23.7 17.4 26.0

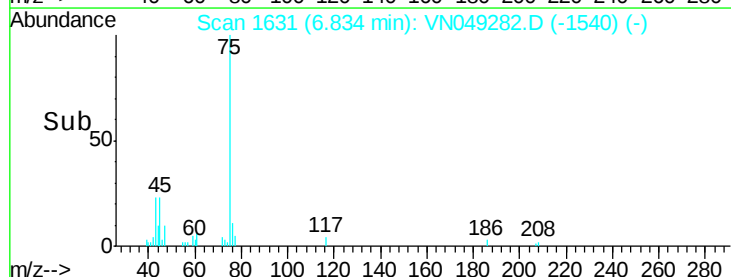
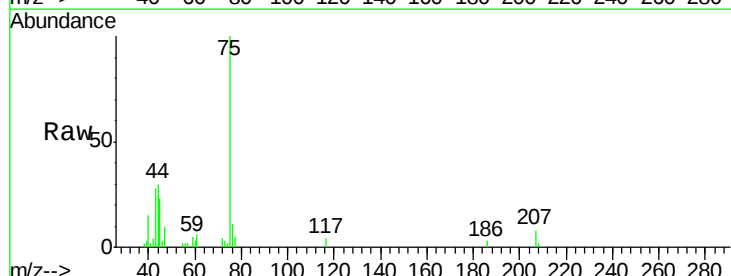
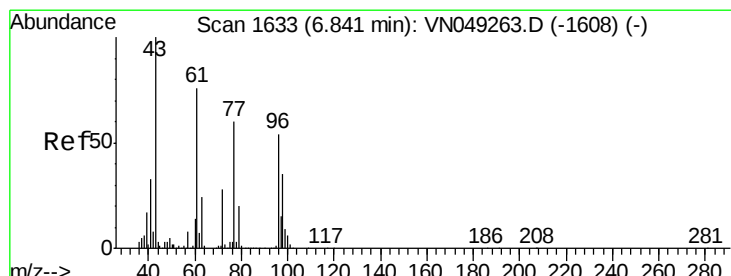
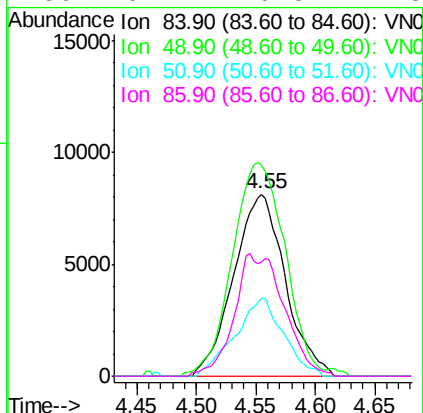




#20
Methvlene Chloride
Concen: 1.51 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN049282.D
Acq: 16 Jun 2018 1:17

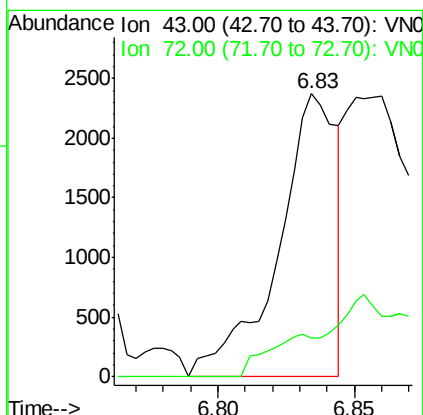
Instrument :
MSVOA_N
ClientSampled :

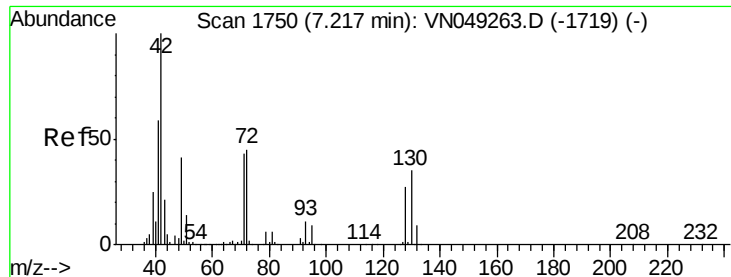
Tot Ion: 84 Resp: 24452
Ion Ratio Lower Upper
84 100
49 113.5 106.9 160.3
51 43.2 32.7 49.1
86 62.7 49.8 74.8



#25
2-Butanone
Concen: 0.68 ug/l
RT: 6.83 min Scan# 1631
Delta R.T. -0.01 min
Lab File: VN049282.D
Acq: 16 Jun 2018 1:17

Tgt Ion: 43 Resp: 3531
Ion Ratio Lower Upper
43 100
72 13.7 20.2 30.2#





#29

Tetrahydrofuran

Concen: 0.37 ug/l

RT: 7.23 min Scan# 1753

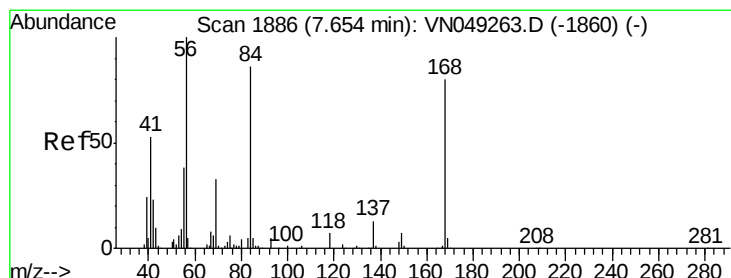
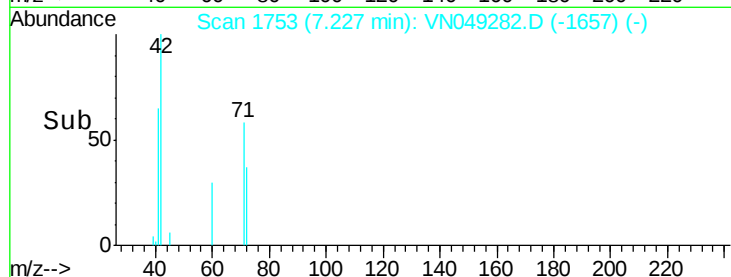
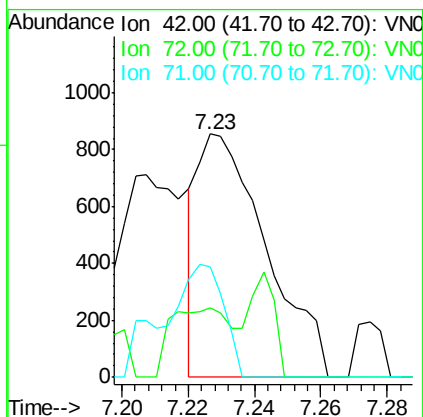
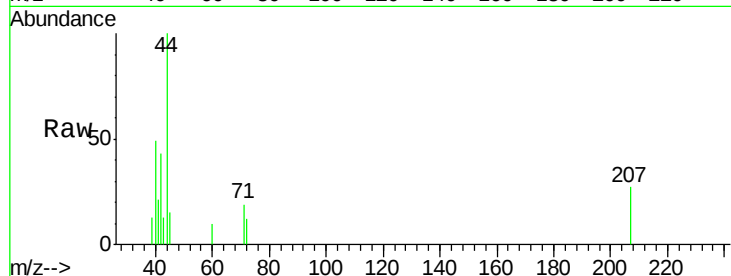
Delta R.T. 0.01 min

Lab File: VN049282.D

Acq: 16 Jun 2018 1:17

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	42	Resp:	1221
Ion	Ratio	Lower	Upper
42	100		
72	24.1	32.2	48.4#
71	31.7	30.5	45.7



#31

Cyclohexane

Concen: 0.77 ug/l

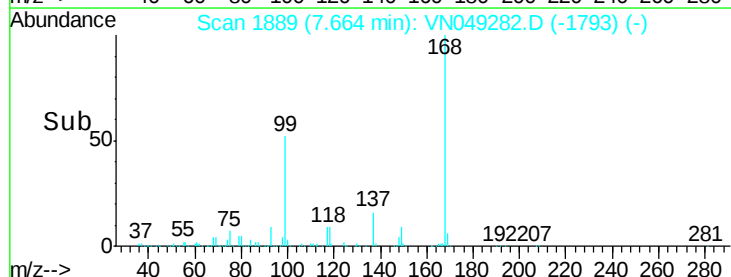
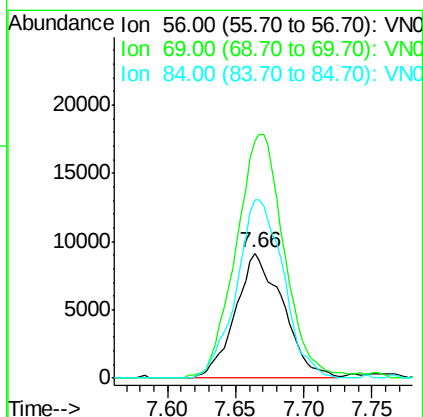
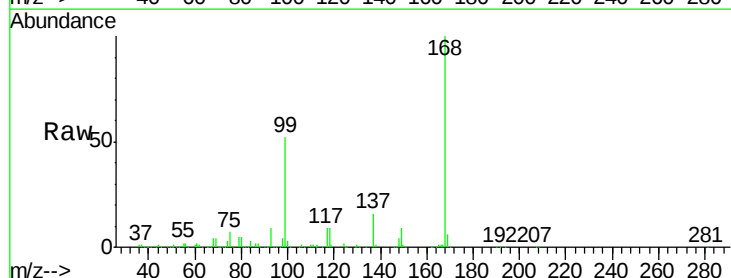
RT: 7.66 min Scan# 1889

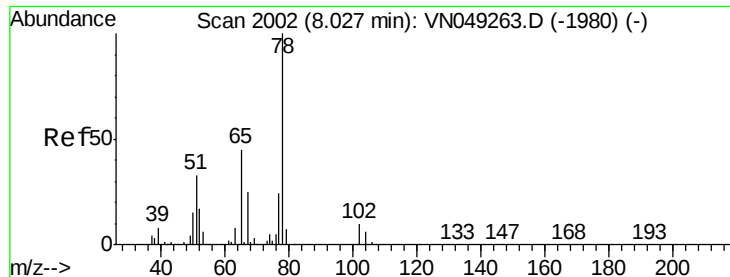
Delta R.T. 0.01 min

Lab File: VN049282.D

Acq: 16 Jun 2018 1:17

Tgt Ion:	56	Resp:	22158
Ion	Ratio	Lower	Upper
56	100		
69	187.8	25.0	37.4#
84	142.4	64.6	96.8#

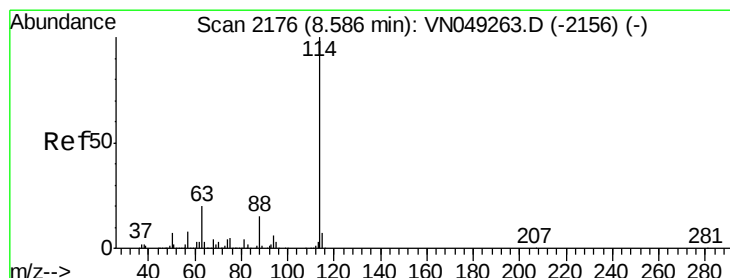
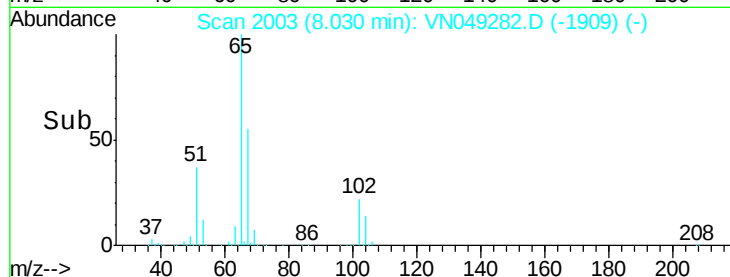
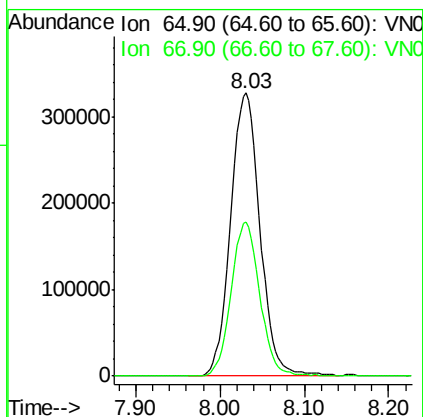
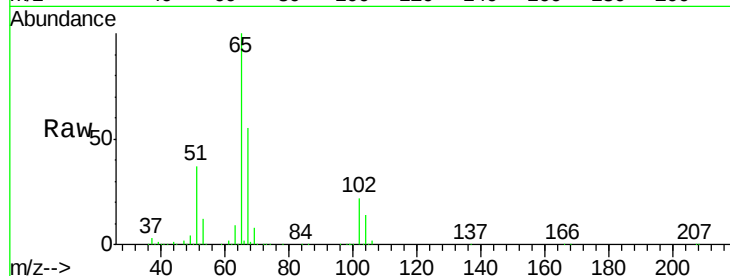




#33
 1,2-Dichloroethane-d4
 Concen: 49.95 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN049282.D
 Acq: 16 Jun 2018 1:17

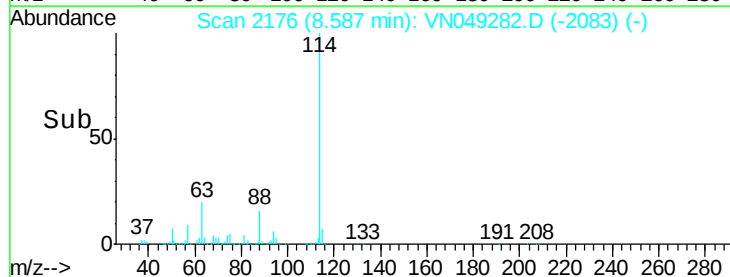
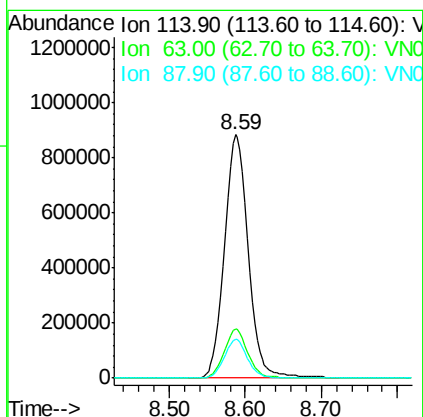
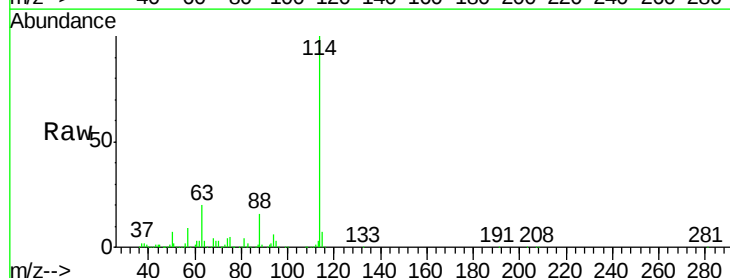
Instrument :
 MSVOA_N
 ClientSampleId :

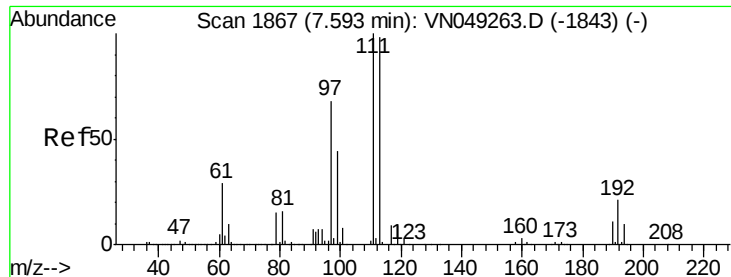
Tot Ion: 65 Resp: 795774
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN049282.D
 Acq: 16 Jun 2018 1:17

Tgt Ion: 114 Resp: 1934232
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 44.4
 88 15.9 0.0 31.4

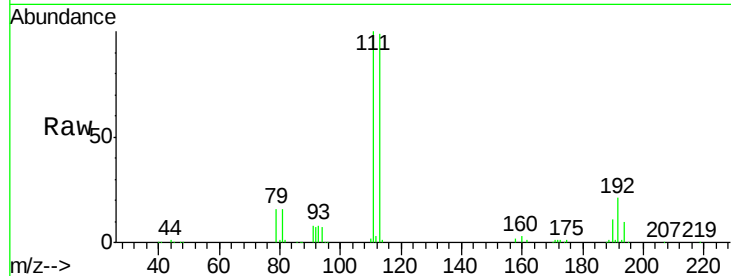




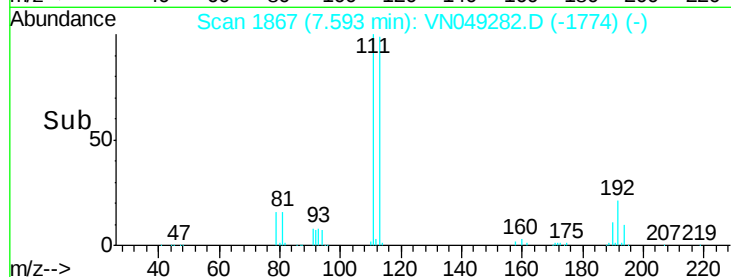
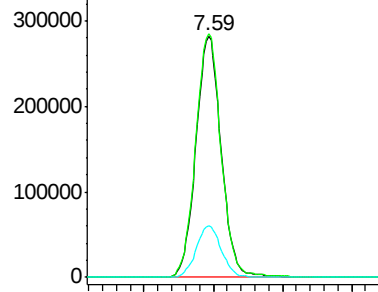
#35
Dibromofluoromethane
Concen: 45.83 ug/l
RT: 7.59 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN049282.D
Acq: 16 Jun 2018 1:17

Instrument :
MSVOA_N
ClientSampleId :

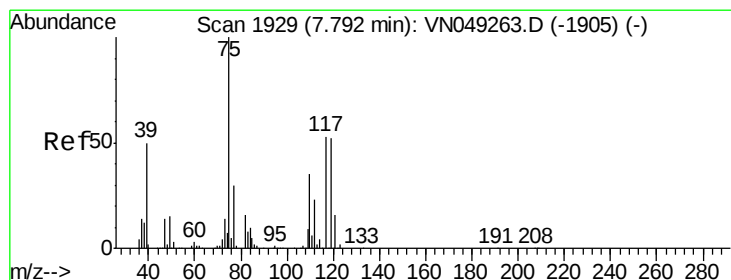
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.7	82.4	123.6
192	21.4	15.0	22.6



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

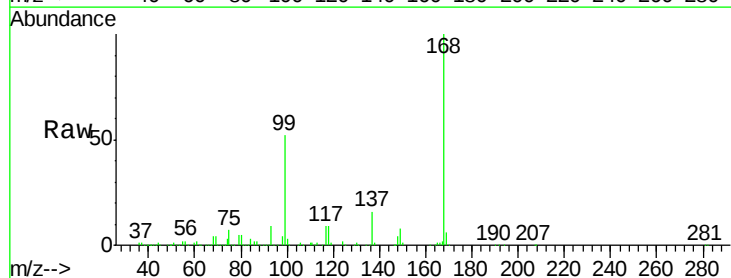


Time-->

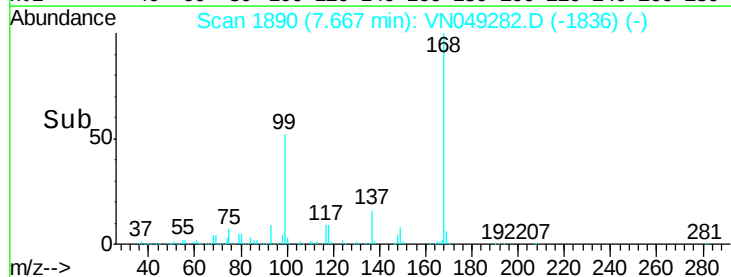
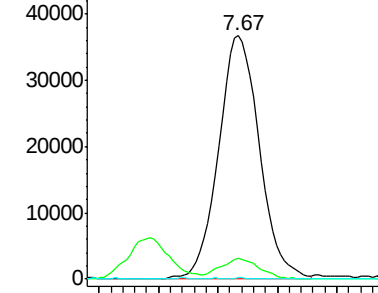


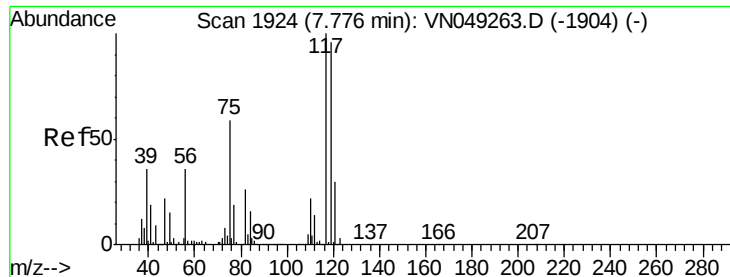
#36
1,1-Dichloropropene
Concen: 3.95 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.13 min
Lab File: VN049282.D
Acq: 16 Jun 2018 1:17

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	17.0	50.9#
77	0.1	24.4	36.6#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 4.72 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN049282.D

Acq: 16 Jun 2018 1:17

Instrument :

MSVOA_N

ClientSampled :

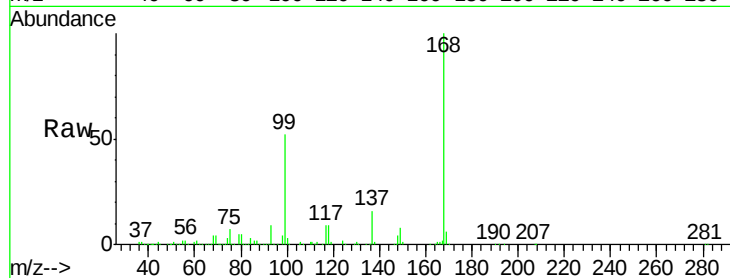
Tot Ion:117 Resp: 108400

Ion Ratio Lower Upper

117 100

119 5.5 75.6 113.4#

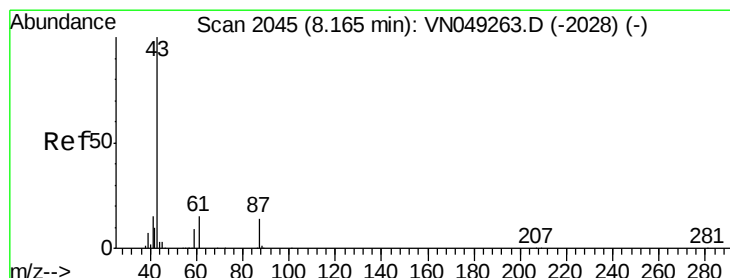
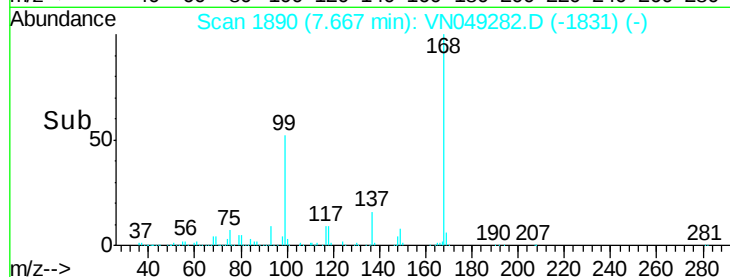
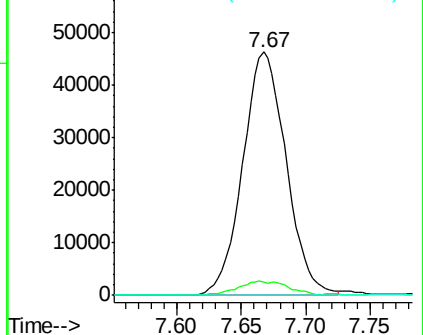
121 0.0 24.7 37.1#



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: 22.94 ug/l

RT: 8.21 min Scan# 2060

Delta R.T. 0.05 min

Lab File: VN049282.D

Acq: 16 Jun 2018 1:17

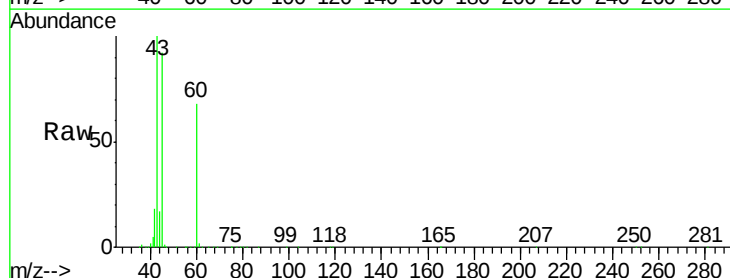
Tgt Ion: 43 Resp: 528278

Ion Ratio Lower Upper

43 100

61 1.0 14.2 21.4#

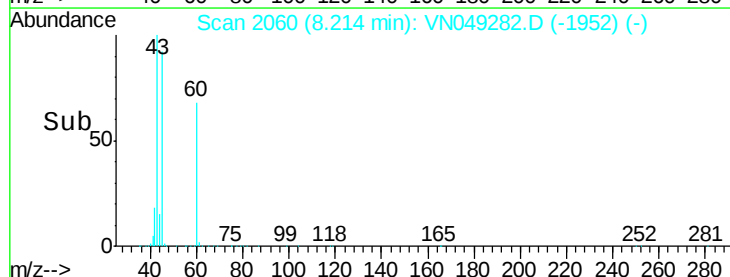
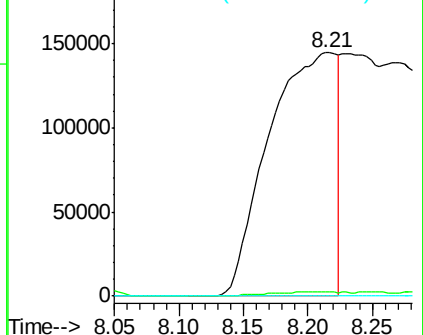
87 0.0 9.4 14.0#

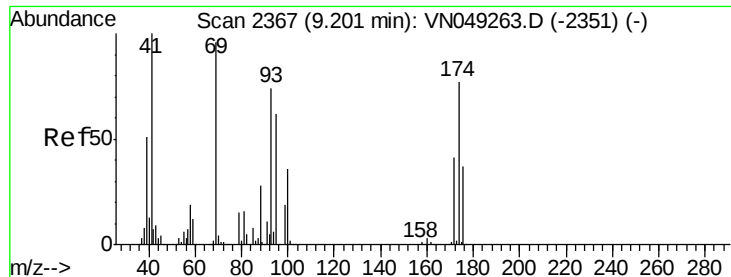


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

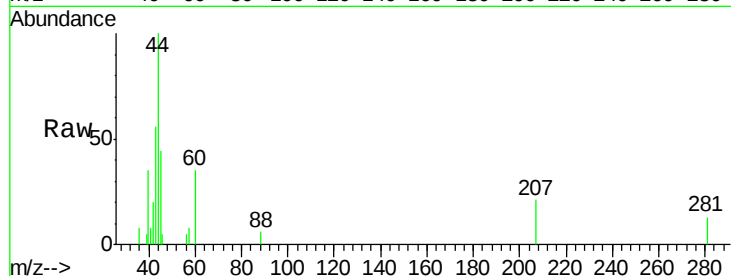




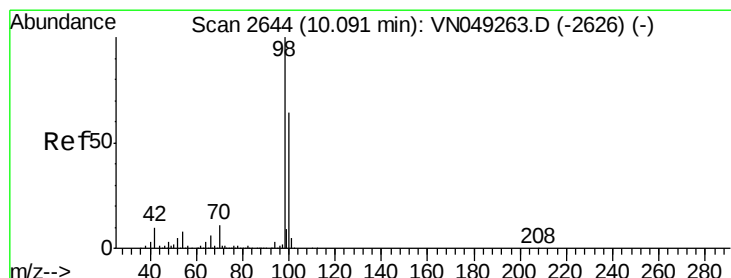
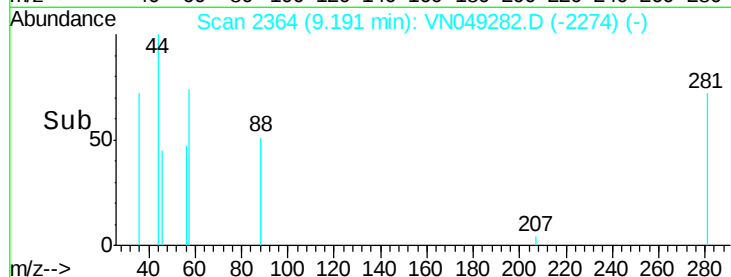
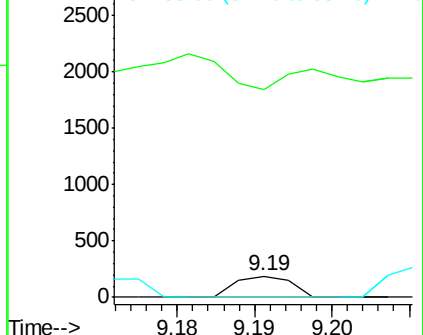
#49
1,4-Dioxane
Concen: 0.63 ug/l
RT: 9.19 min Scan# 2364
Delta R.T. -0.01 min
Lab File: VN049282.D
Acq: 16 Jun 2018 1:17

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 88 Resp: 95
Ion Ratio Lower Upper
88 100
43 269.5 30.9 46.3#
58 64.2 58.9 88.3

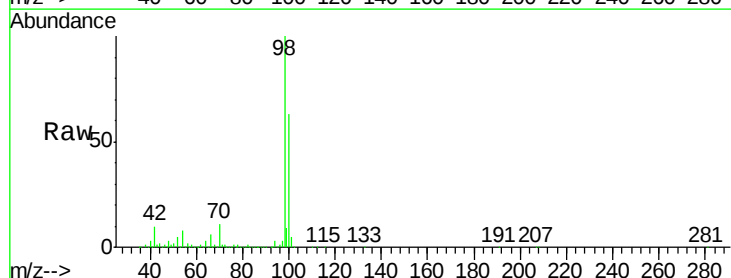


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

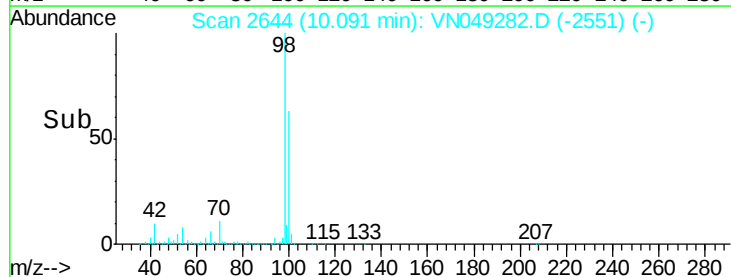
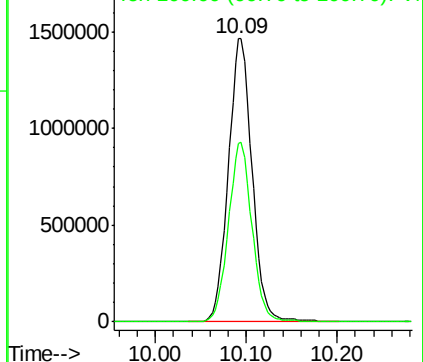


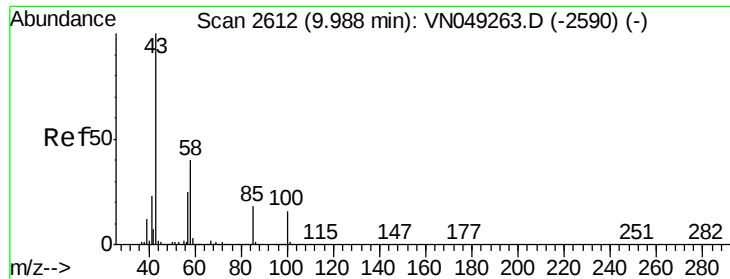
#50
Toluene-d8
Concen: 44.59 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN049282.D
Acq: 16 Jun 2018 1:17

Tgt Ion: 98 Resp: 2656715
Ion Ratio Lower Upper
98 100
100 63.2 49.8 74.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.34 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. 0.00 min

Lab File: VN049282.D

Acq: 16 Jun 2018 1:17

Instrument :

MSVOA_N

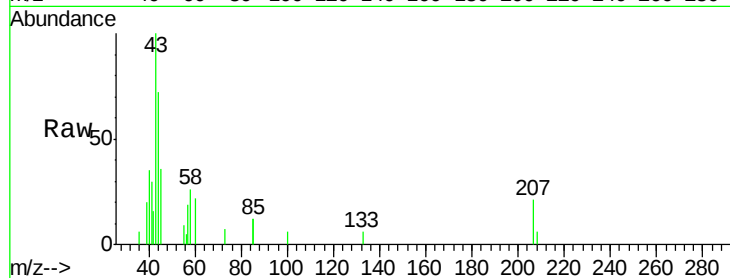
ClientSampled :

Tot Ion: 43 Resp: 4047

Ion Ratio Lower Upper

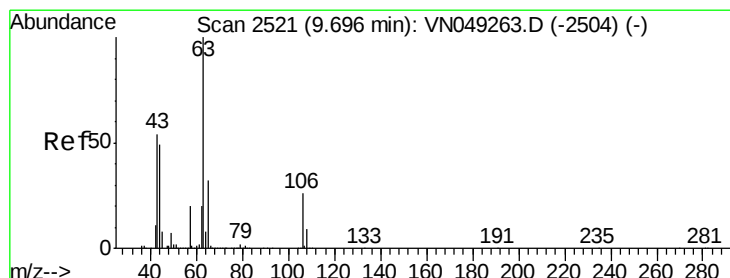
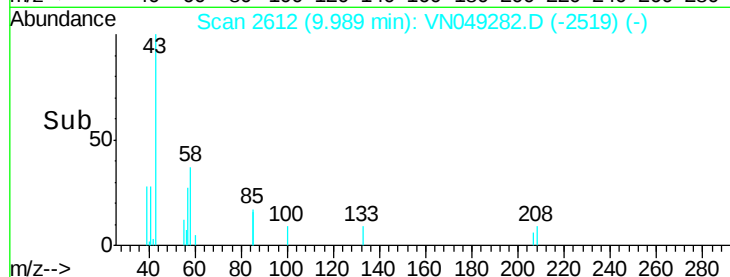
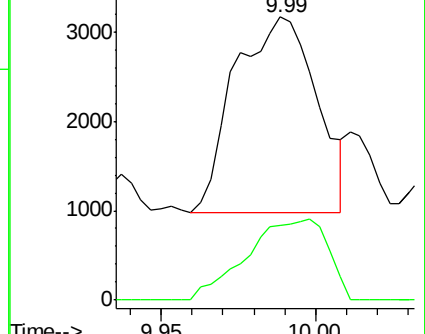
43 100

58 40.5 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 14.34 ug/l

RT: 9.58 min Scan# 2485

Delta R.T. -0.11 min

Lab File: VN049282.D

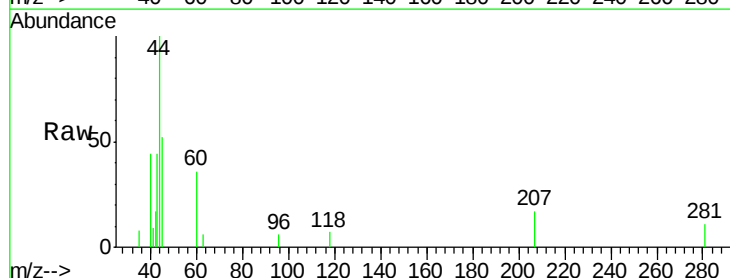
Acq: 16 Jun 2018 1:17

Tgt Ion: 63 Resp: 65

Ion Ratio Lower Upper

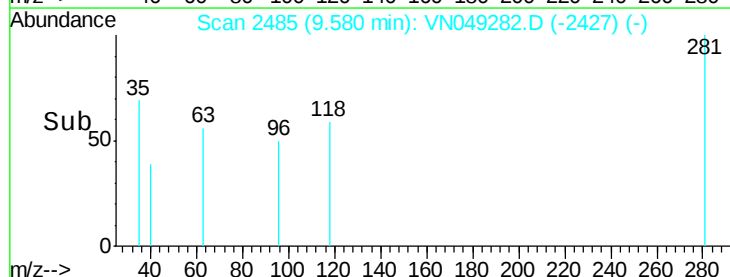
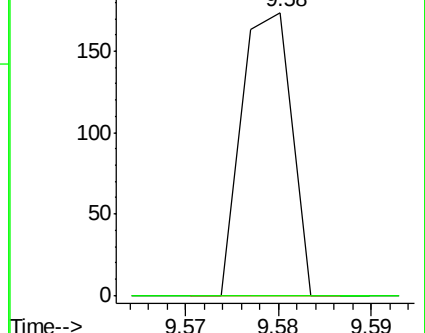
63 100

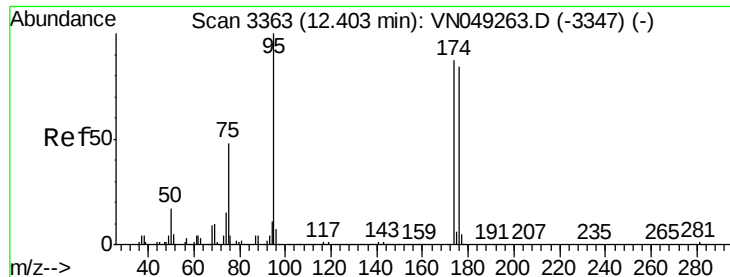
106 0.0 19.4 29.2#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





#62

4-Bromofluorobenzene

Concen: 29.12 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049282.D

Acq: 16 Jun 2018 1:17

Instrument :

MSVOA_N

ClientSampled :

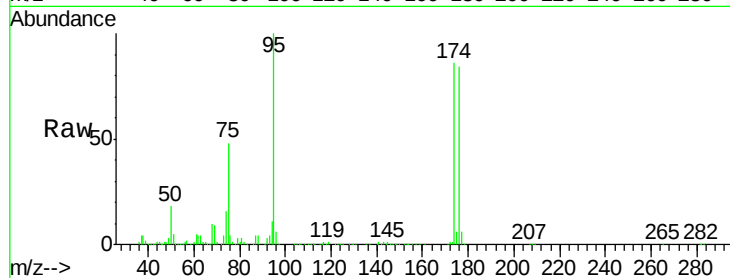
Tot Ion: 95 Resp: 573764

Ion Ratio Lower Upper

95 100

174 88.6 0.0 165.6

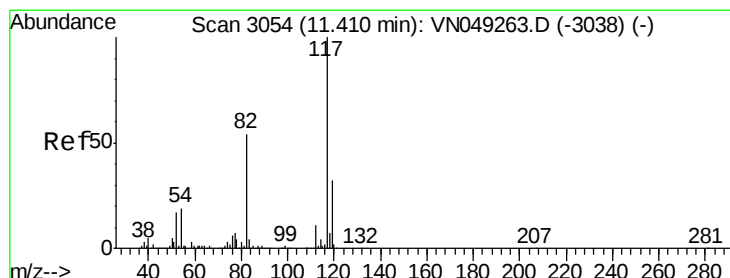
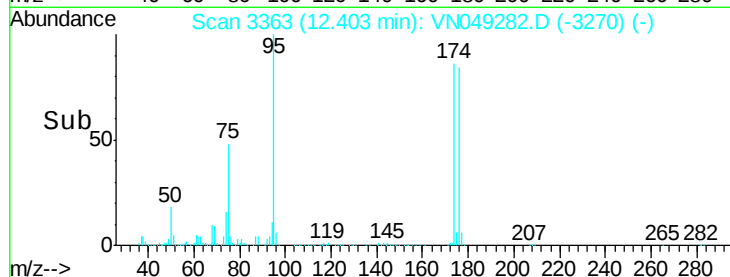
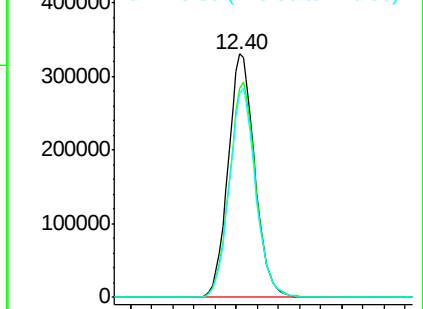
176 85.1 0.0 157.4



Abundance Ion 94.90 (94.60 to 95.60): VN049282.D (-2961) (-)

Ion 173.80 (173.50 to 174.50): VN049282.D (-2961) (-)

Ion 175.80 (175.50 to 176.50): VN049282.D (-2961) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN049282.D

Acq: 16 Jun 2018 1:17

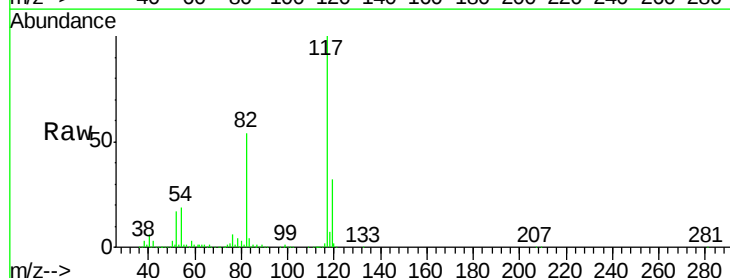
Tgt Ion: 117 Resp: 1527426

Ion Ratio Lower Upper

117 100

82 54.2 45.9 68.9

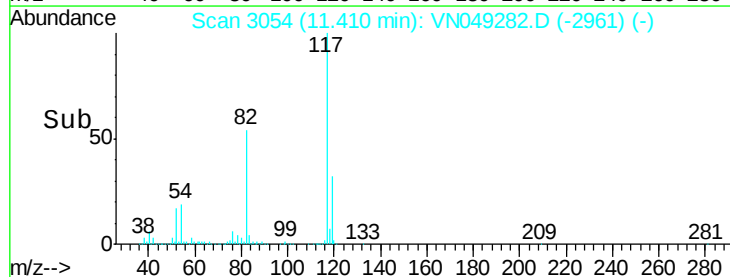
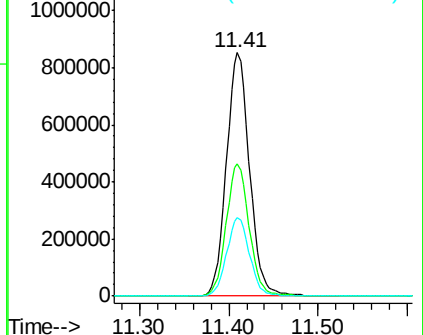
119 32.3 25.5 38.3

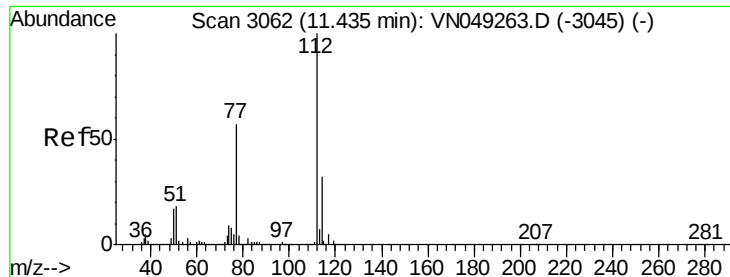


Abundance Ion 116.90 (116.60 to 117.60): VN049282.D (-2961) (-)

Ion 82.00 (81.70 to 82.70): VN049282.D (-2961) (-)

Ion 118.90 (118.60 to 119.60): VN049282.D (-2961) (-)





#65

Chlorobenzene

Concen: 0.75 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN049282.D

Acq: 16 Jun 2018 1:17

Instrument :

MSVOA_N

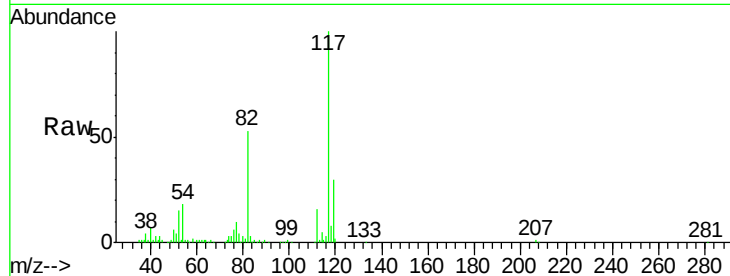
ClientSampleId :

Tot Ion:112 Resp: 29416

Ion Ratio Lower Upper

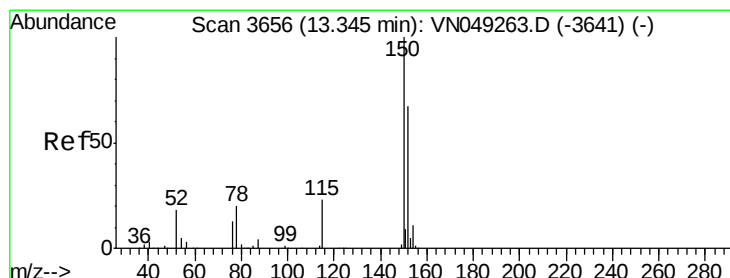
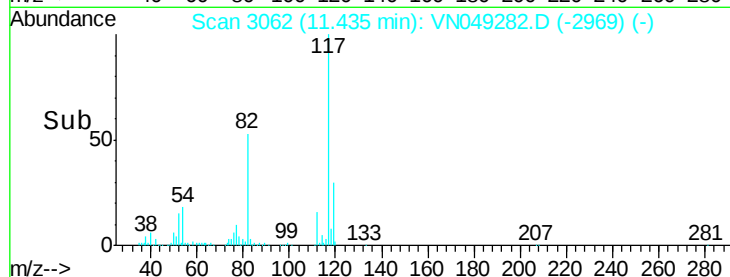
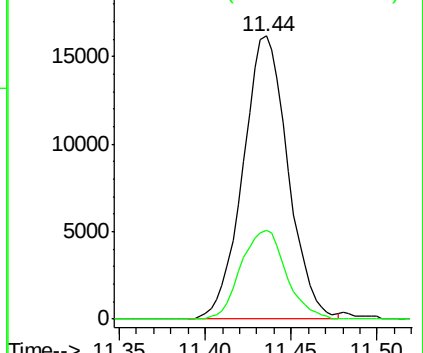
112 100

114 31.5 26.2 39.4



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3657

Delta R.T. 0.00 min

Lab File: VN049282.D

Acq: 16 Jun 2018 1:17

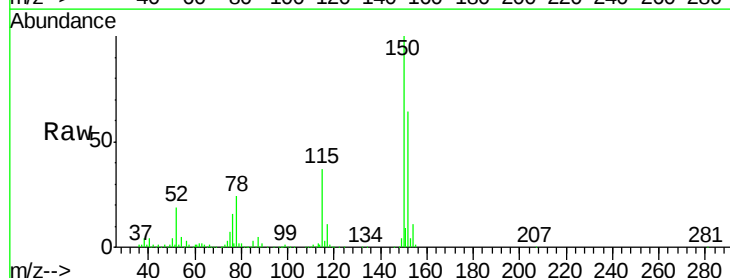
Tgt Ion:152 Resp: 349328

Ion Ratio Lower Upper

152 100

115 57.3 28.7 86.1

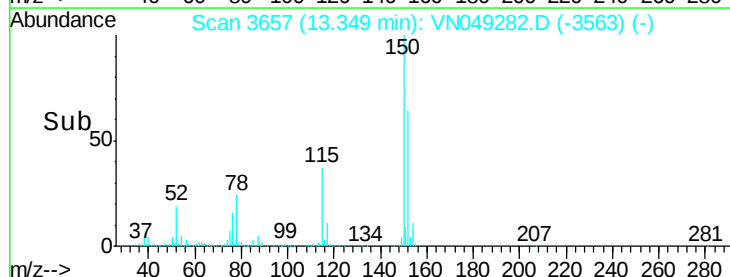
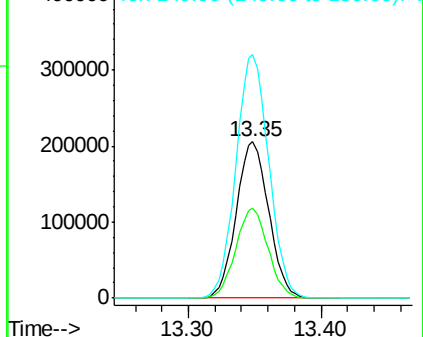
150 157.9 0.0 351.0

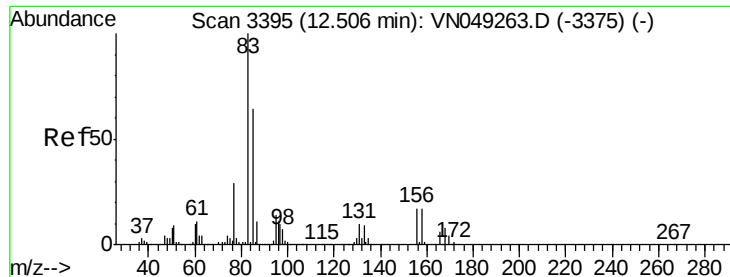


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VN049282.D

Acq: 16 Jun 2018 1:17

Instrument :

MSVOA_N

ClientSampleId :

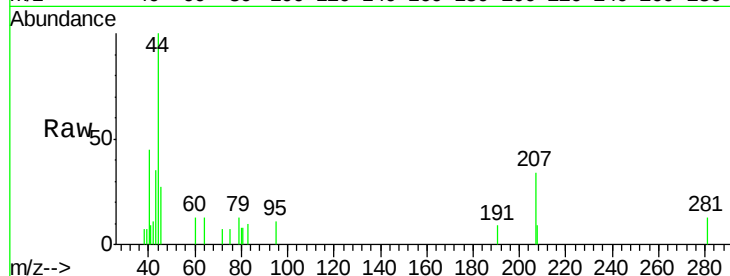
Tot Ion: 83 Resp: 157

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 0.0 32.0 96.0#

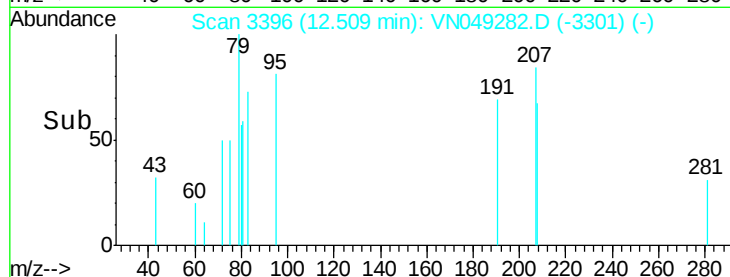


Abundance Ion 82.90 (82.60 to 83.60): VN049282.D (-3301) (-)

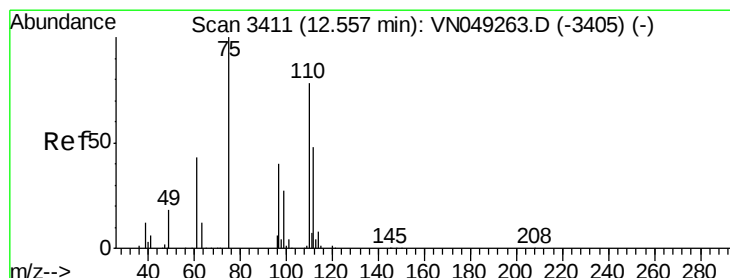
Ion 130.80 (130.50 to 131.50): VN049282.D (-3301) (-)

Ion 84.90 (84.60 to 85.60): VN049282.D (-3301) (-)

Time-->



Time-->



#76

1,2,3-Trichloropropane

Concen: 45.91 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049282.D

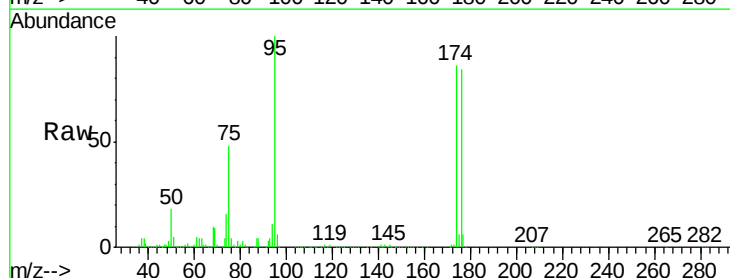
Acq: 16 Jun 2018 1:17

Tgt Ion: 75 Resp: 273643

Ion Ratio Lower Upper

75 100

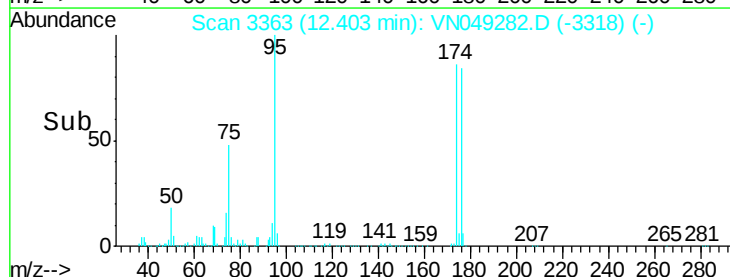
77 1.2 0.0 0.0#



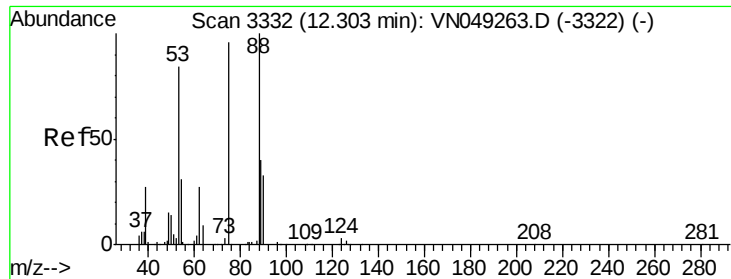
Abundance Ion 74.90 (74.60 to 75.60): VN049282.D (-3318) (-)

Ion 77.00 (76.70 to 77.70): VN049282.D (-3318) (-)

Time-->



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 145.10 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049282.D

Acq: 16 Jun 2018 1:17

Instrument :

MSVOA_N

ClientSampled :

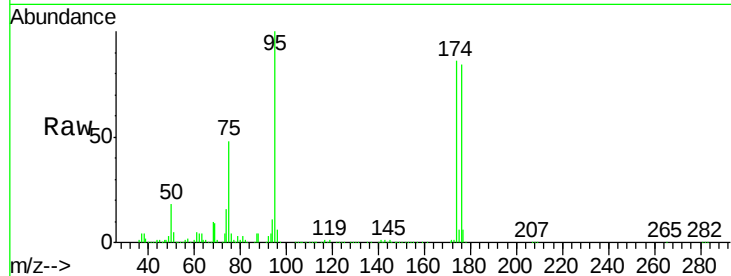
Tot Ion: 75 Resp: 273643

Ion Ratio Lower Upper

75 100

53 0.2 82.7 124.1#

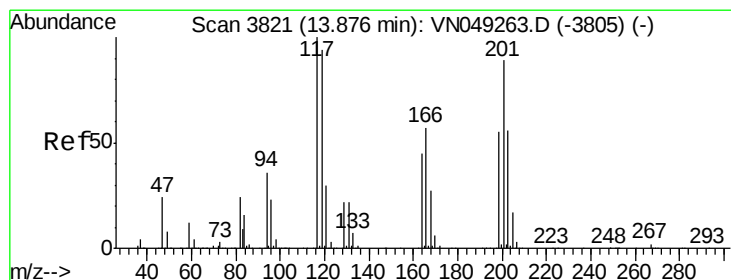
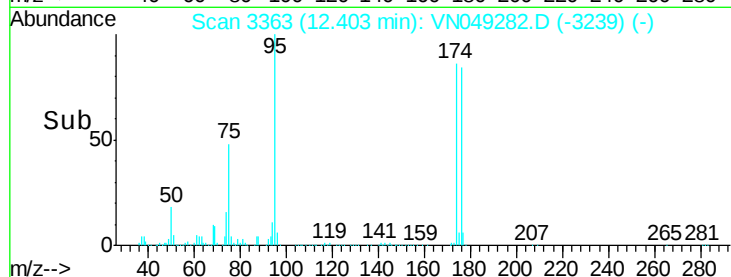
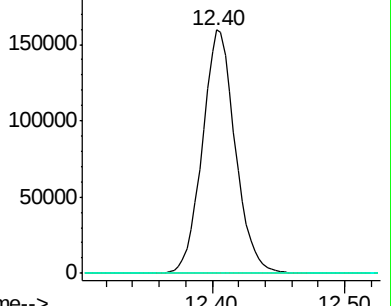
89 0.0 36.5 54.7#



Abundance Ion 74.90 (74.60 to 75.60): VN049282.D (-3363) (-)

Ion 53.00 (52.70 to 53.70): VN049282.D (-3363) (-)

Ion 88.90 (88.60 to 89.60): VN049282.D (-3363) (-)



#90

Hexachloroethane

Concen: Below Cal

RT: 13.63 min Scan# 3745

Delta R.T. -0.24 min

Lab File: VN049282.D

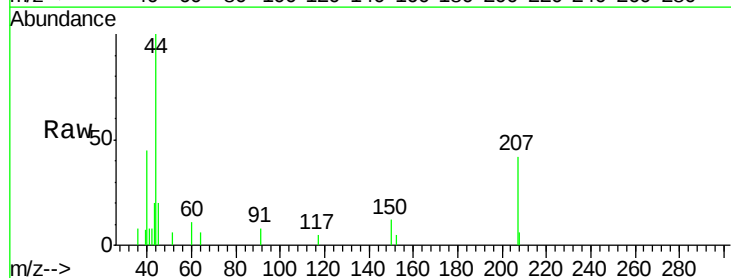
Acq: 16 Jun 2018 1:17

Tgt Ion: 117 Resp: 30

Ion Ratio Lower Upper

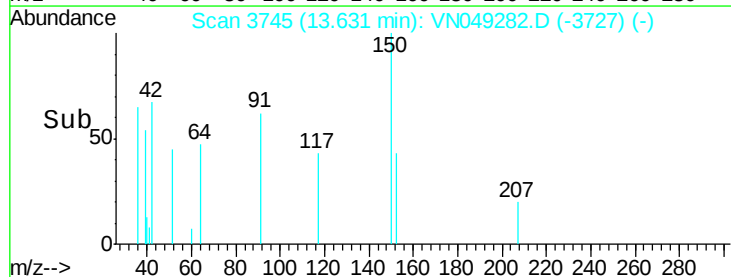
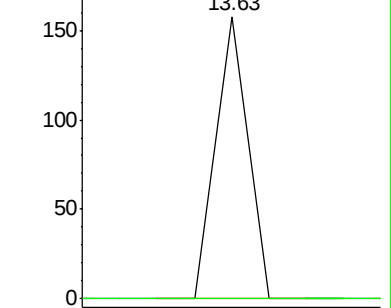
117 100

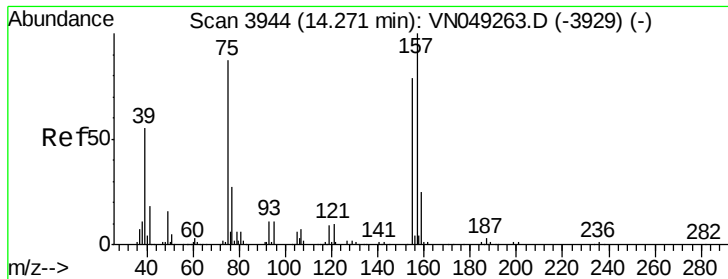
201 0.0 40.1 120.2#



Abundance Ion 116.80 (116.50 to 117.50): VN049282.D (-3745) (-)

Ion 200.70 (200.40 to 201.40): VN049282.D (-3745) (-)





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.55 ug/l

RT: 14.26 min Scan# 3939

Delta R.T. -0.02 min

Lab File: VN049282.D

Acq: 16 Jun 2018 1:17

Instrument :

MSVOA_N

ClientSampled :

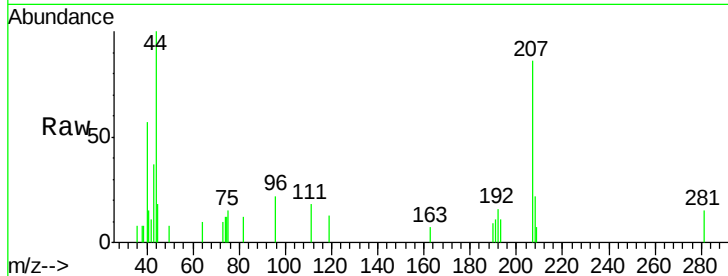
Tot Ion: 75 Resp: 590

Ion Ratio Lower Upper

75 100

155 0.0 38.8 116.3#

157 0.0 51.0 153.1#

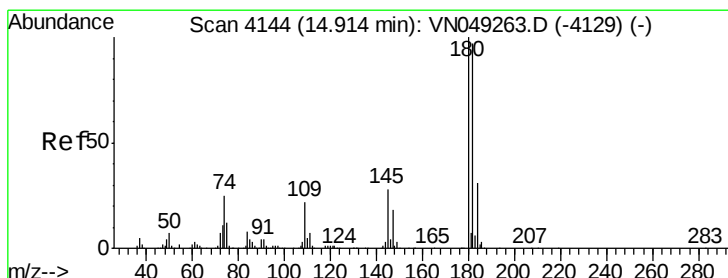
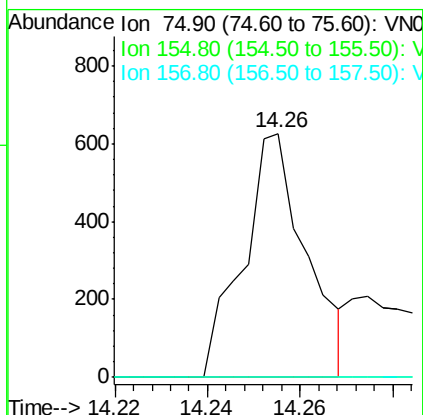
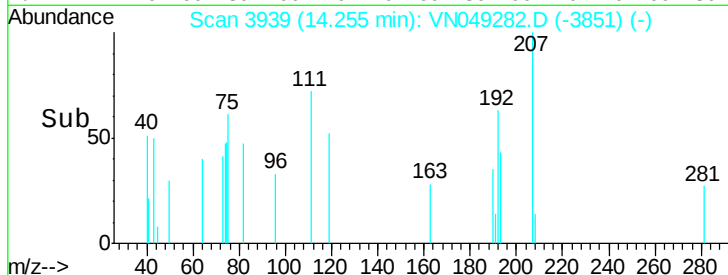


Abundance Ion 74.90 (74.60 to 75.60): VN049263.D (-3929) (-)

Ion 154.80 (154.50 to 155.50): VN049263.D (-3929) (-)

Ion 156.80 (156.50 to 157.50): VN049263.D (-3929) (-)

Time--> 14.22 14.24 14.26



#93

1,2,4-Trichlorobenzene

Concen: 4.77 ug/l

RT: 14.91 min Scan# 4142

Delta R.T. -0.01 min

Lab File: VN049282.D

Acq: 16 Jun 2018 1:17

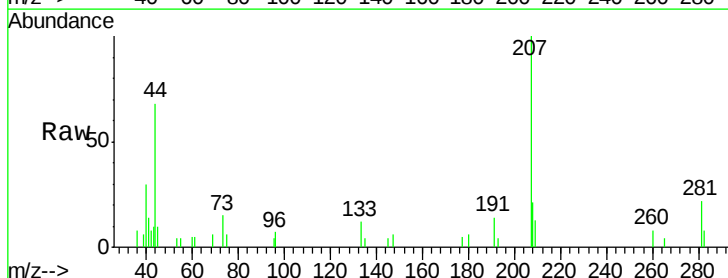
Tgt Ion: 180 Resp: 184

Ion Ratio Lower Upper

180 100

182 0.0 46.9 140.8#

145 36.4 14.7 44.1

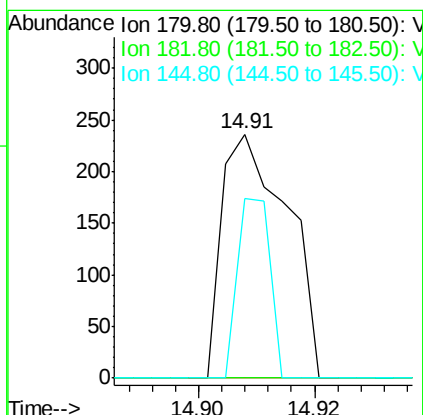
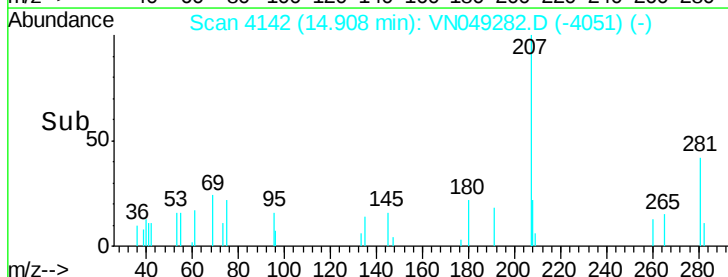


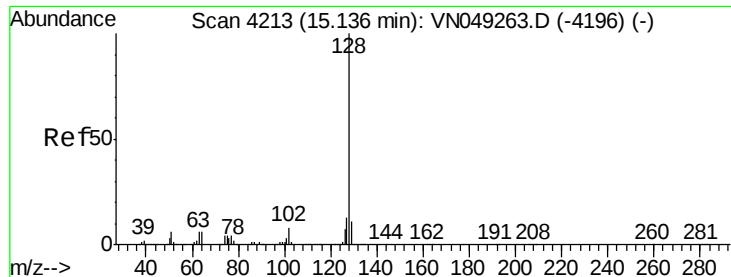
Abundance Ion 179.80 (179.50 to 180.50): VN049263.D (-4129) (-)

Ion 181.80 (181.50 to 182.50): VN049263.D (-4129) (-)

Ion 144.80 (144.50 to 145.50): VN049263.D (-4129) (-)

Time--> 14.90 14.92





#95

Naphthalene

Concen: 2.14 ug/l

RT: 15.13 min Scan# 4211

Delta R.T. -0.01 min

Lab File: VN049282.D

Acq: 16 Jun 2018 1:17

Instrument :

MSVOA_N

ClientSampleId :

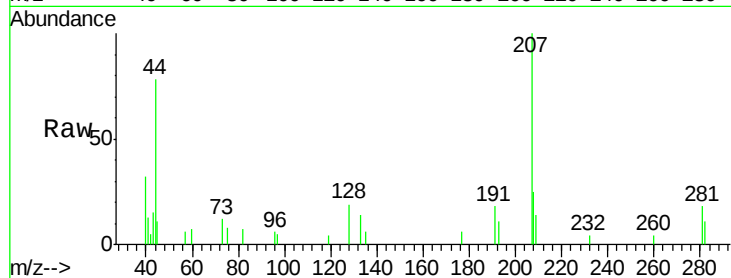
Tot Ion:128 Resp: 615

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

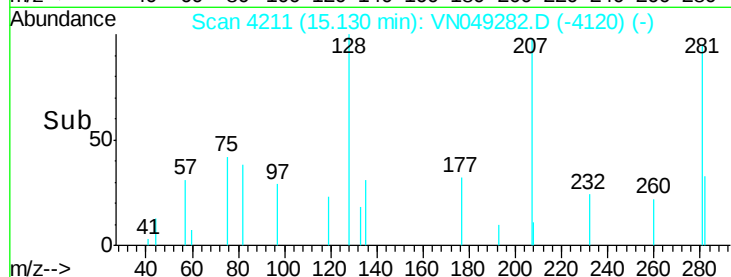
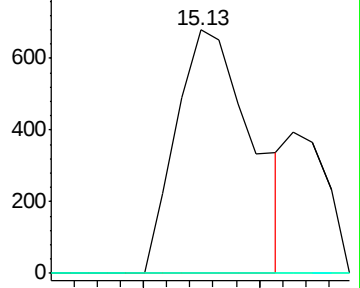
129 0.0 8.5 12.7#



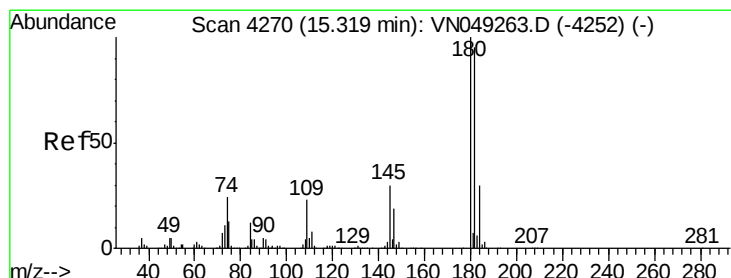
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->



#96

1,2,3-Trichlorobenzene

Concen: 3.49 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. -0.00 min

Lab File: VN049282.D

Acq: 16 Jun 2018 1:17

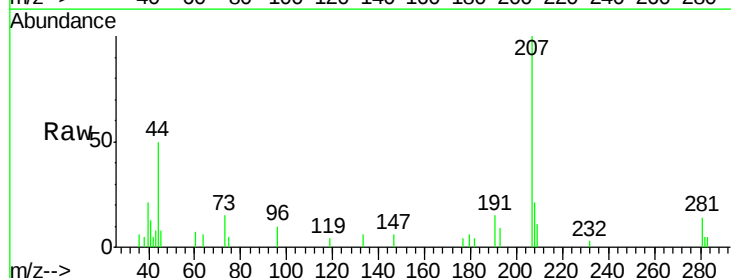
Tgt Ion:180 Resp: 210

Ion Ratio Lower Upper

180 100

182 192.9 47.3 141.8#

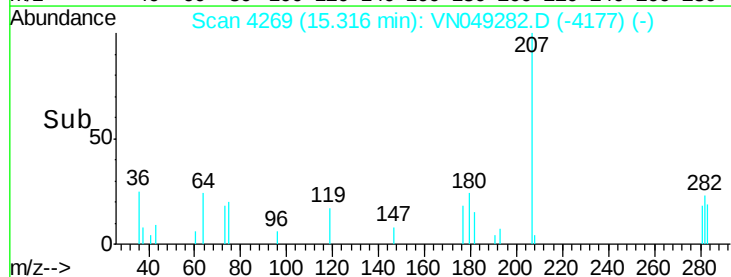
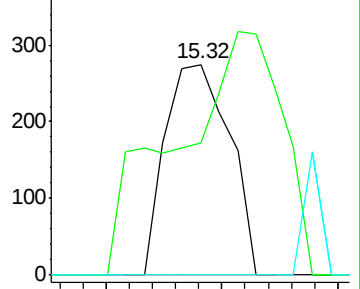
145 14.8 15.6 46.7#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V



Time-->