

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061918\
 Data File : VN049407.D
 Acq On : 20 Jun 2018 00:39
 Operator : MD\SY
 Sample : PB110363ZHE#19
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 20 04:36:20 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	1220963	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1988957	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1631470	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	431995	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	839822	51.86	ug/l	0.00
Spiked Amount			Recovery	=	103.72%	
35) Dibromofluoromethane	7.59	113	742316	46.13	ug/l	0.00
Spiked Amount			Recovery	=	92.26%	
50) Toluene-d8	10.09	98	2703581	44.12	ug/l	0.00
Spiked Amount			Recovery	=	88.24%	
62) 4-Bromofluorobenzene	12.41	95	658235	32.49	ug/l	0.00
Spiked Amount			Recovery	=	64.98%	

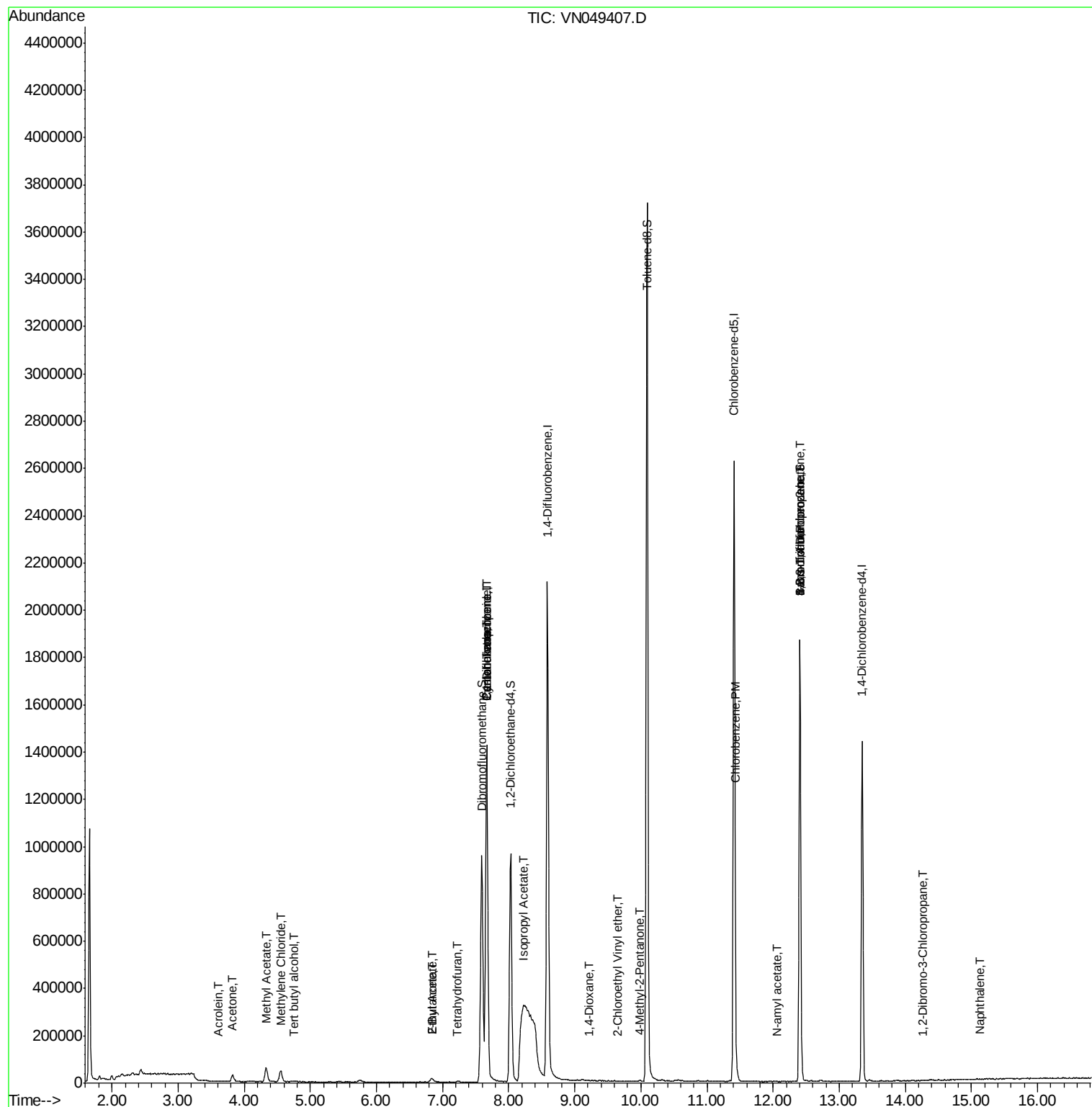
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	1627	1.71	ug/l #	70
13) Acrolein	3.61	56	635	0.64	ug/l #	19
16) Acetone	3.82	43	46363	11.79	ug/l	95
18) Methyl Acetate	4.33	43	112042	9.35	ug/l	92
20) Methylene Chloride	4.56	84	34330	2.09	ug/l	88
25) 2-Butanone	6.85	43	6974	1.32	ug/l #	83
29) Tetrahydrofuran	7.22	42	1432	0.42	ug/l #	82
31) Cyclohexane	7.67	56	22975	0.79	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	85602	3.76	ug/l #	50
37) Ethyl Acetate	6.85	43	6974	0.56	ug/l #	71
38) Carbon Tetrachloride	7.67	117	111542	4.73	ug/l #	17
43) Isopropyl Acetate	8.22	43	437699	18.49	ug/l #	65
49) 1,4-Dioxane	9.20	88	103	0.67	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	5030	0.41	ug/l	88
58) 2-Chloroethyl Vinyl ether	9.65	63	30	14.33	ug/l #	51
65) Chlorobenzene	11.44	112	21411	0.51	ug/l	98
71) Bromoform	12.41	173	5216	0.51	ug/l #	1
74) N-amyl acetate	12.05	43	2600	0.28	ug/l #	48
75) 1,1,2,2-Tetrachloroethane	12.50	83	31	Below	Cal #	26
76) 1,2,3-Trichloropropane	12.41	75	321748	43.65	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	321748	137.96	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.25	75	866	0.66	ug/l #	4
95) Naphthalene	15.13	128	412	2.11	ug/l #	75

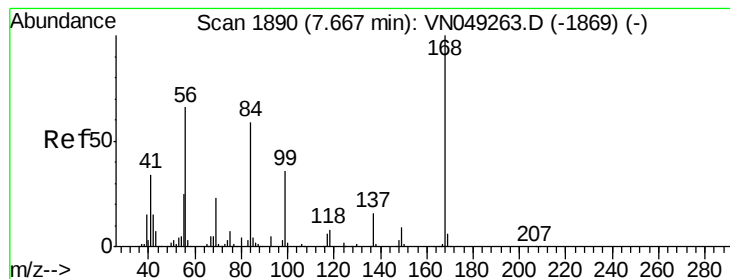
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN049407.D

Acq: 20 Jun 2018 00:39

Instrument :

MSVOA_N

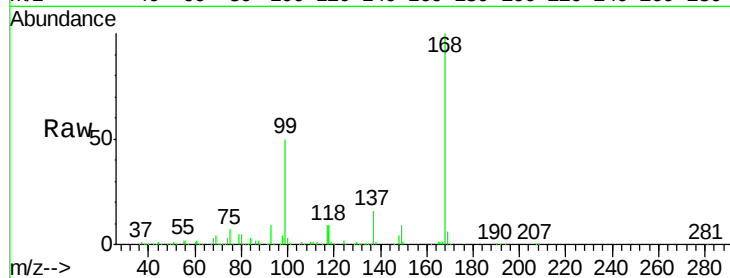
ClientSampleId :

Tot Ion:168 Resp: 1220963

Ion Ratio Lower Upper

168 100

99 50.5 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

600000

500000

400000

300000

200000

100000

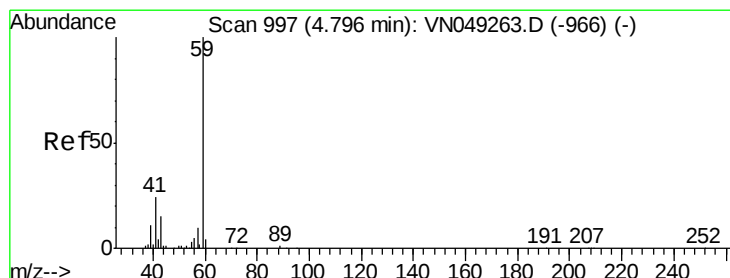
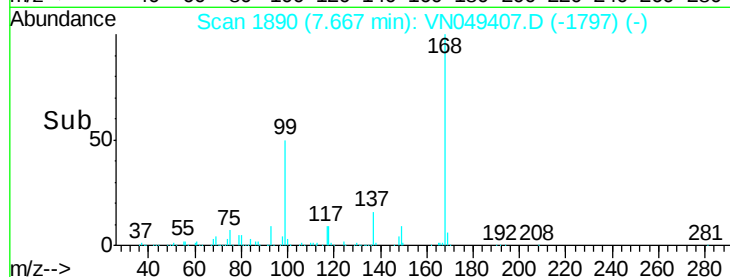
0

7.67

7.60

7.70

Time-->



#11

Tert butyl alcohol

Concen: 1.71 ug/l

RT: 4.74 min Scan# 980

Delta R.T. -0.05 min

Lab File: VN049407.D

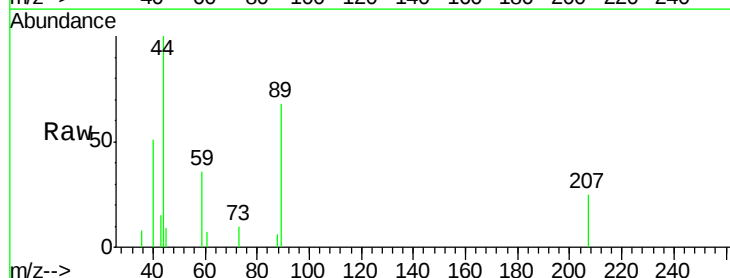
Acq: 20 Jun 2018 00:39

Tgt Ion: 59 Resp: 1627

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

1000

800

600

400

200

0

4.74

4.68

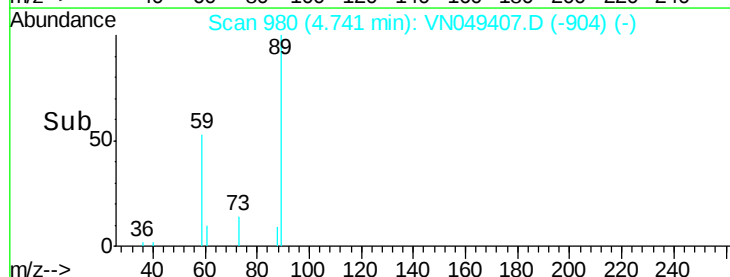
4.70

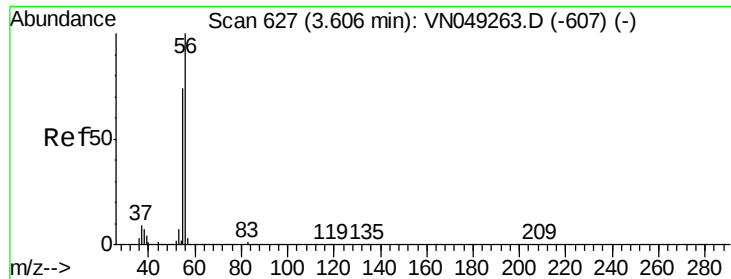
4.72

4.74

4.76

Time-->





#13

Acrolein

Concen: 0.64 ug/l

RT: 3.61 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN049407.D

Acq: 20 Jun 2018 00:39

Instrument :

MSVOA_N

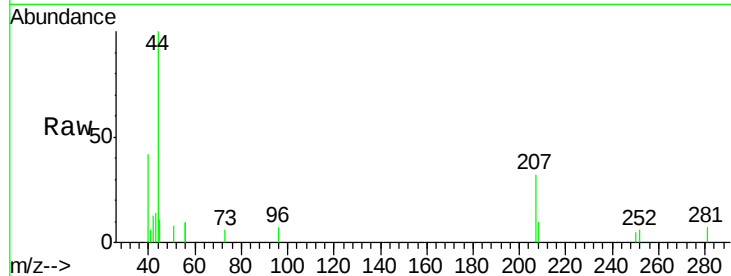
ClientSampleId :

Tot Ion: 56 Resp: 635

Ion Ratio Lower Upper

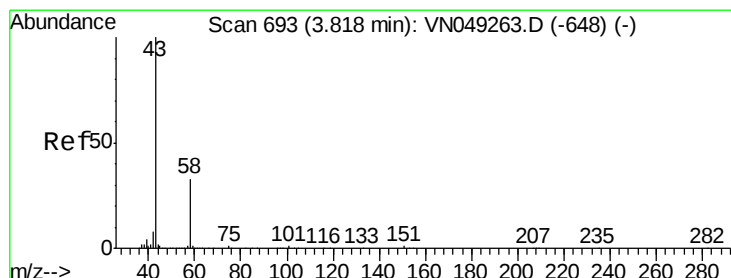
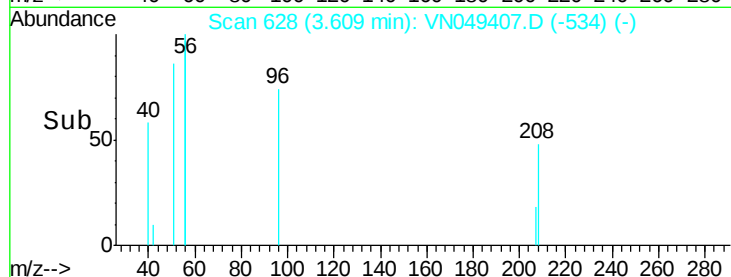
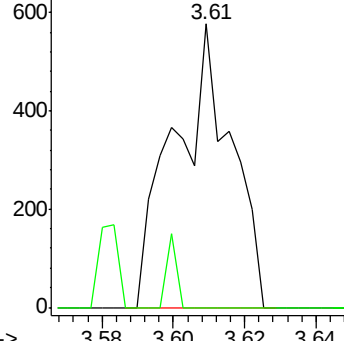
56 100

55 4.6 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 11.79 ug/l

RT: 3.82 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN049407.D

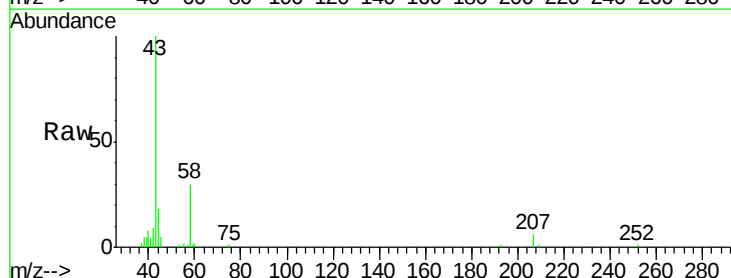
Acq: 20 Jun 2018 00:39

Tgt Ion: 43 Resp: 46363

Ion Ratio Lower Upper

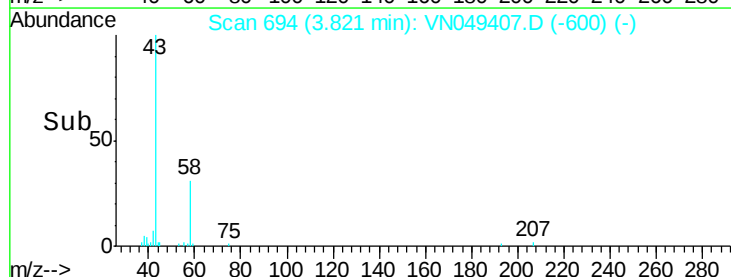
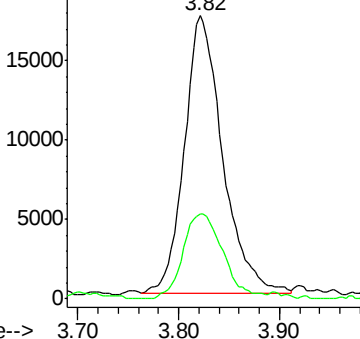
43 100

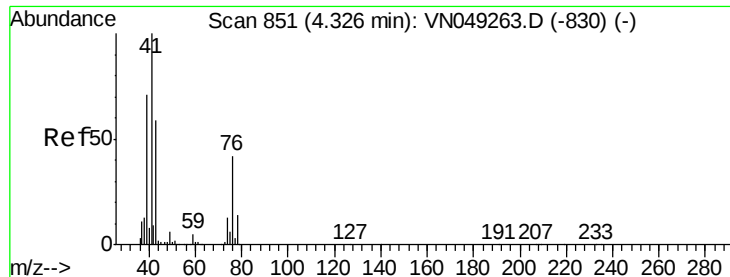
58 30.6 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

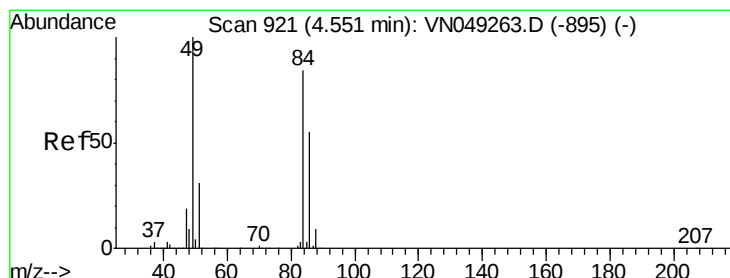
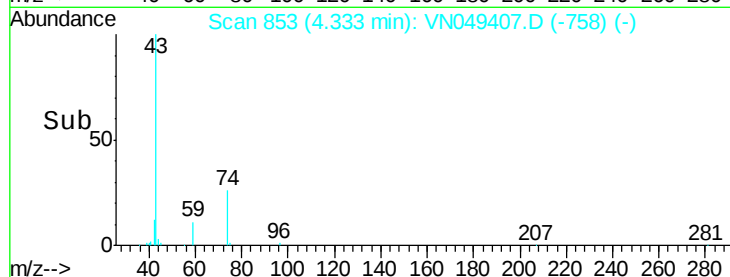
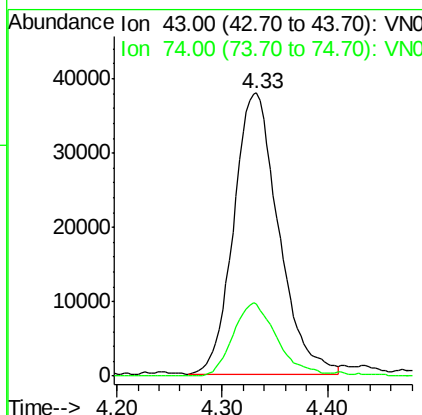
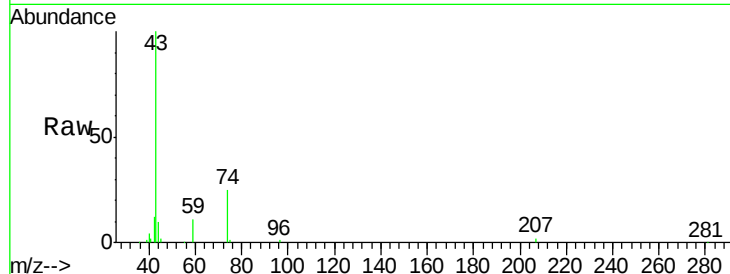




#18
Methvl Acetate
Concen: 9.35 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.01 min
Lab File: VN049407.D
Acq: 20 Jun 2018 00:39

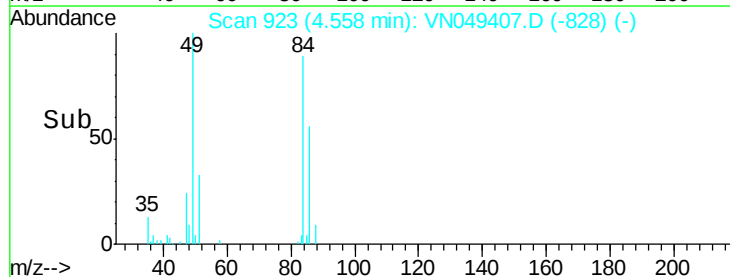
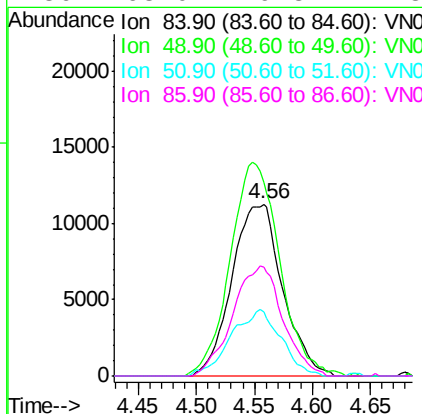
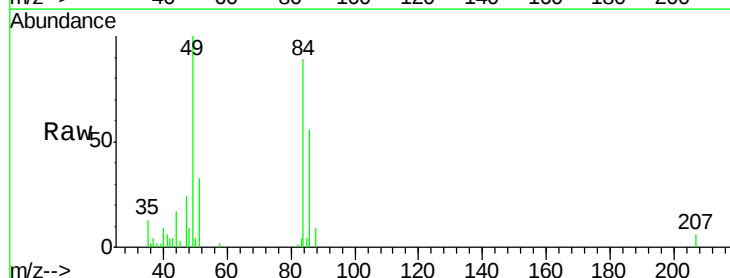
Instrument :
MSVOA_N
ClientSampleId :

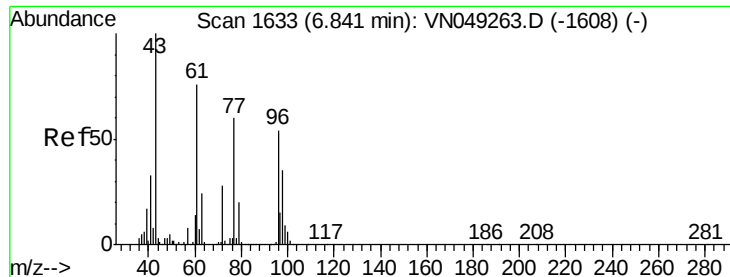
Tot Ion: 43 Resp: 112042
Ion Ratio Lower Upper
43 100
74 25.5 17.4 26.0



#20
Methylene Chloride
Concen: 2.09 ug/l
RT: 4.56 min Scan# 923
Delta R.T. 0.01 min
Lab File: VN049407.D
Acq: 20 Jun 2018 00:39

Tgt Ion: 84 Resp: 34330
Ion Ratio Lower Upper
84 100
49 111.5 106.9 160.3
51 37.6 32.7 49.1
86 63.0 49.8 74.8

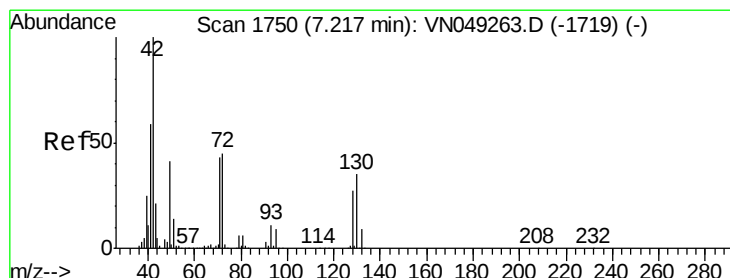
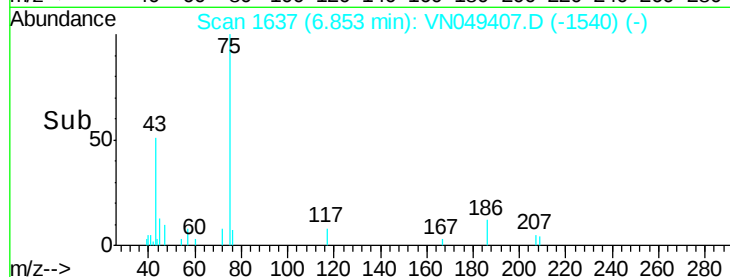
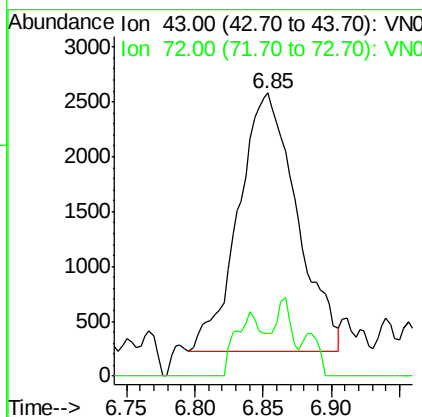
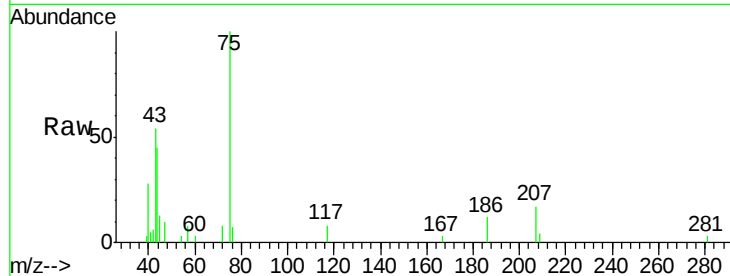




#25
2-Butanone
Concen: 1.32 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. 0.01 min
Lab File: VN049407.D
Acq: 20 Jun 2018 00:39

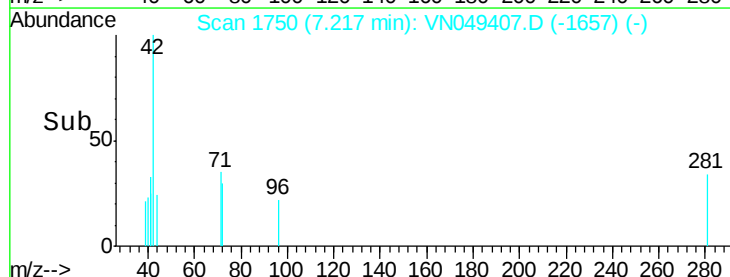
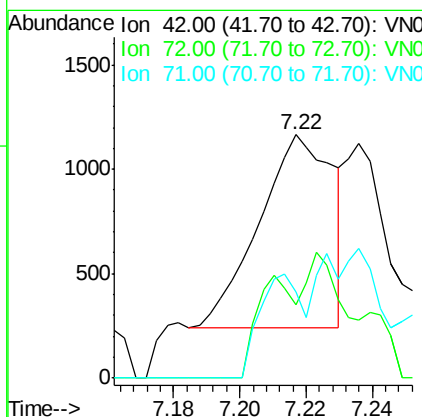
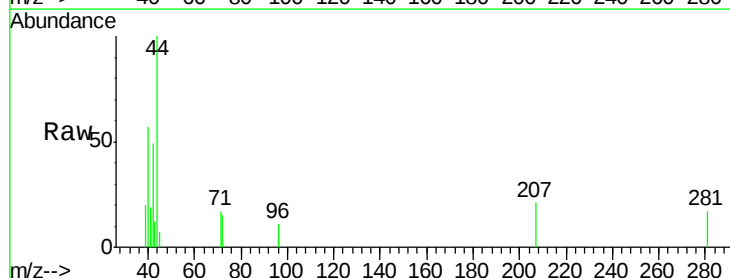
Instrument :
MSVOA_N
ClientSampled :

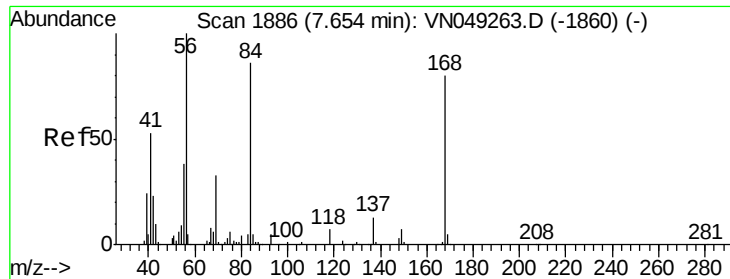
Tot Ion: 43 Resp: 6974
Ion Ratio Lower Upper
43 100
72 16.6 20.2 30.2#



#29
Tetrahydrofuran
Concen: 0.42 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. -0.00 min
Lab File: VN049407.D
Acq: 20 Jun 2018 00:39

Tgt Ion: 42 Resp: 1432
Ion Ratio Lower Upper
42 100
72 26.4 32.2 48.4#
71 30.5 30.5 45.7

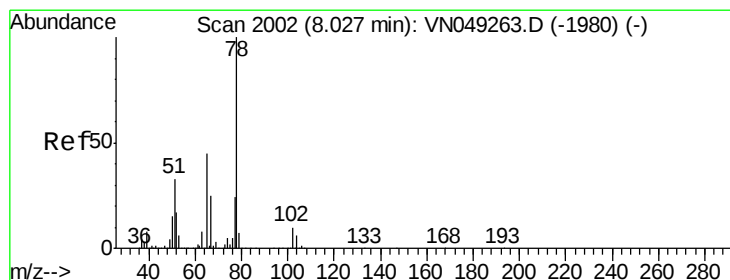
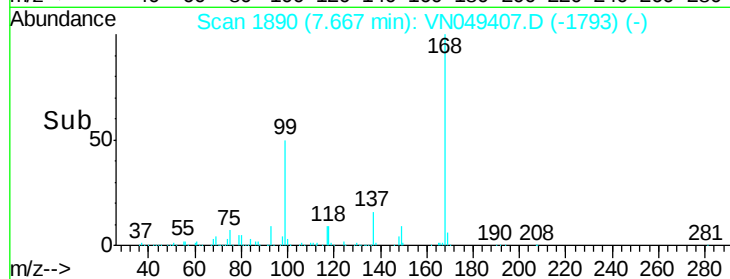
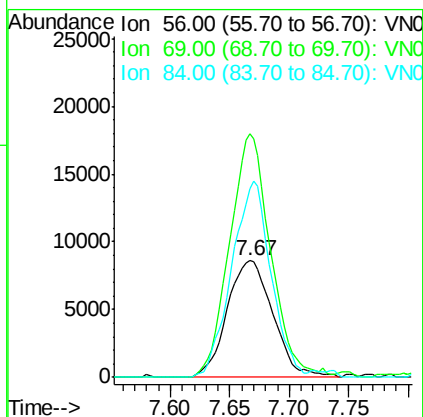
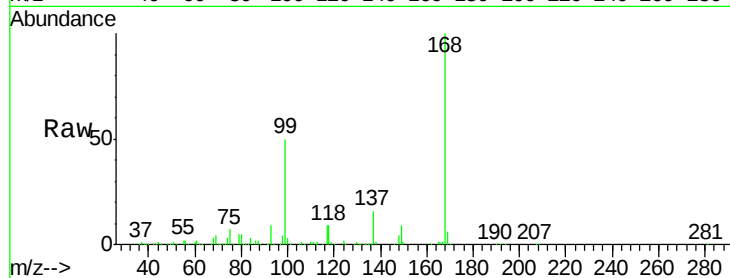




#31
Cyclohexane
Concen: 0.79 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN049407.D
Acq: 20 Jun 2018 00:39

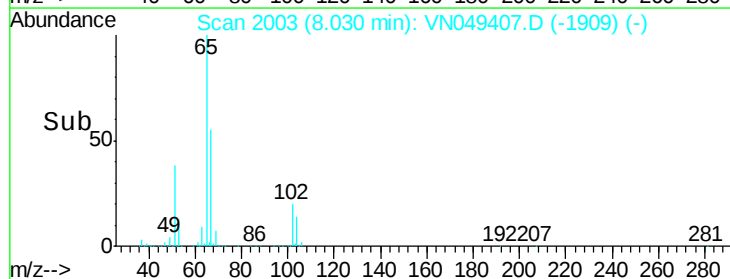
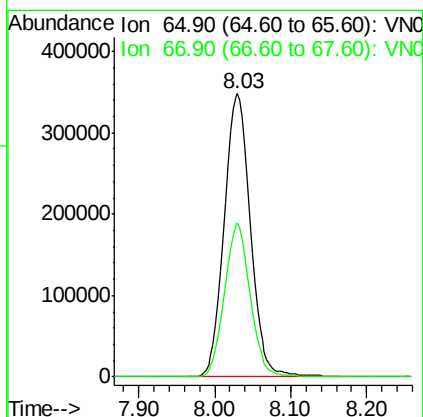
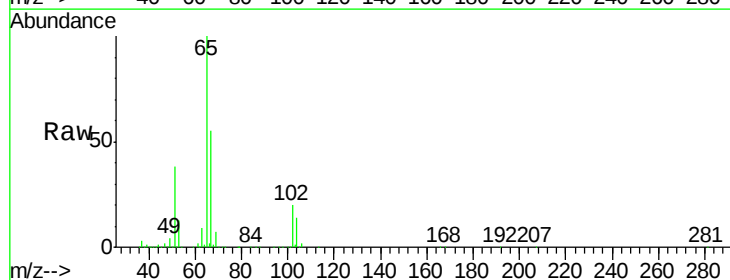
Instrument :
MSVOA_N
ClientSampled :

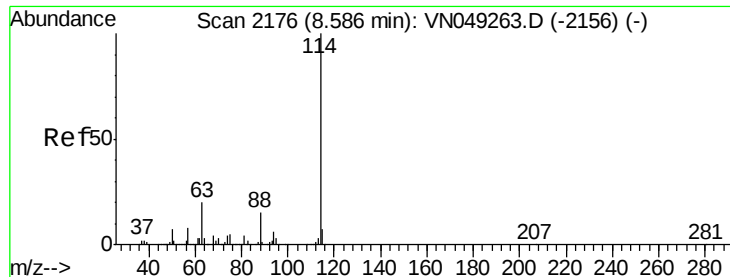
Tot Ion: 56 Resp: 22975
Ion Ratio Lower Upper
56 100
69 208.5 25.0 37.4#
84 161.7 64.6 96.8#



#33
1,2-Dichloroethane-d4
Concen: 51.86 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049407.D
Acq: 20 Jun 2018 00:39

Tgt Ion: 65 Resp: 839822
Ion Ratio Lower Upper
65 100
67 53.1 0.0 103.8

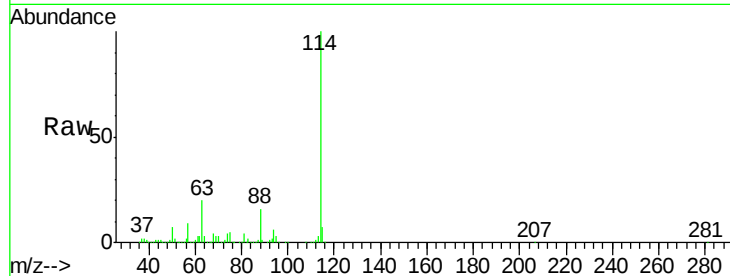




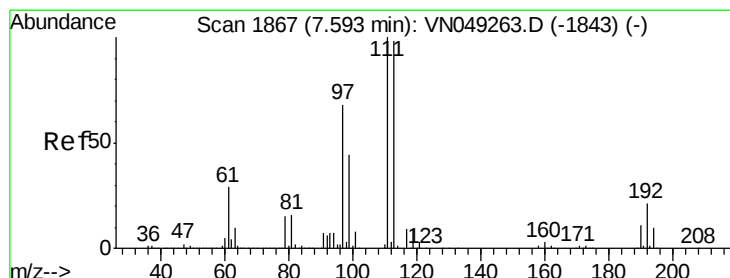
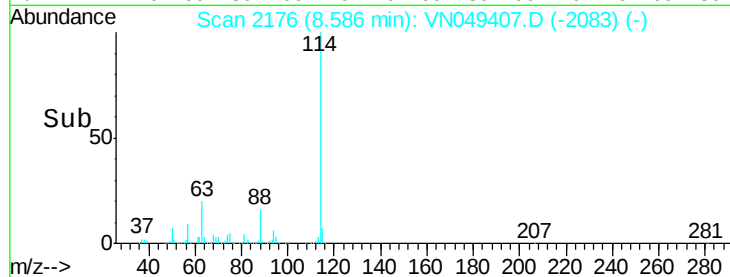
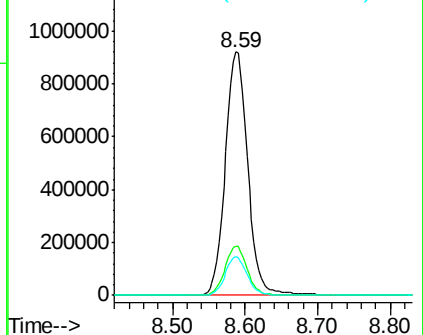
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.59 min Scan# 2176
Delta R.T. 0.00 min
Lab File: VN049407.D
Acq: 20 Jun 2018 00:39

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 1988957
Ion Ratio Lower Upper
114 100
63 20.2 0.0 44.4
88 15.8 0.0 31.4

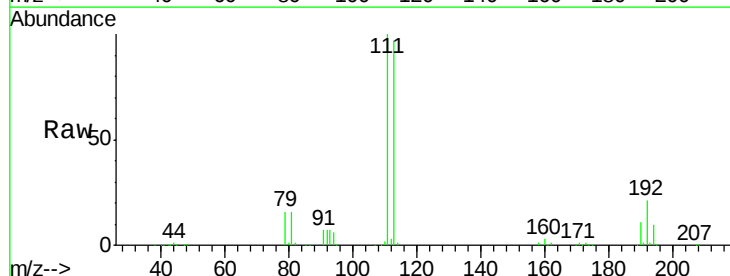


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

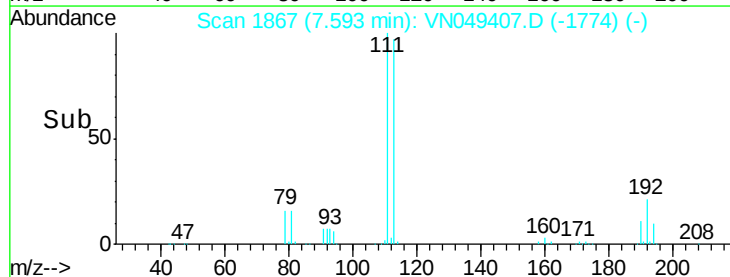
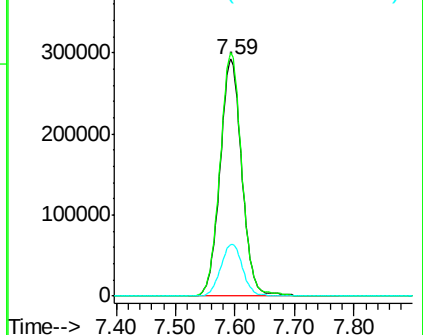


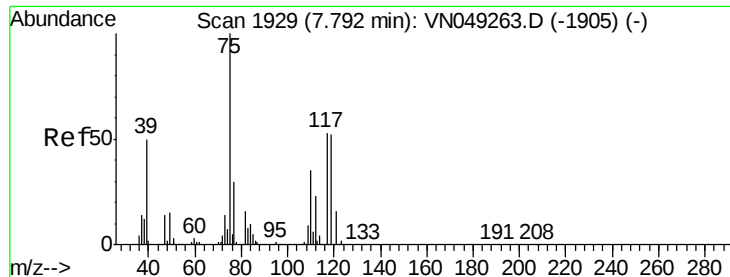
#35
Dibromofluoromethane
Concen: 46.13 ug/l
RT: 7.59 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VN049407.D
Acq: 20 Jun 2018 00:39

Tgt Ion:113 Resp: 742316
Ion Ratio Lower Upper
113 100
111 102.1 82.4 123.6
192 22.1 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





#36

1,1-Dichloropropene

Concen: 3.76 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN049407.D

Acq: 20 Jun 2018 00:39

Instrument :

MSVOA_N

ClientSampleId :

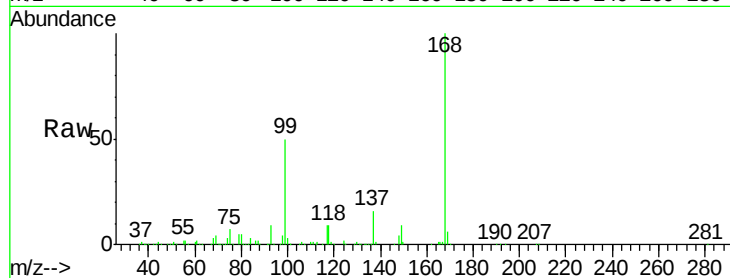
Tot Ion: 75 Resp: 85602

Ion Ratio Lower Upper

75 100

110 7.6 17.0 50.9#

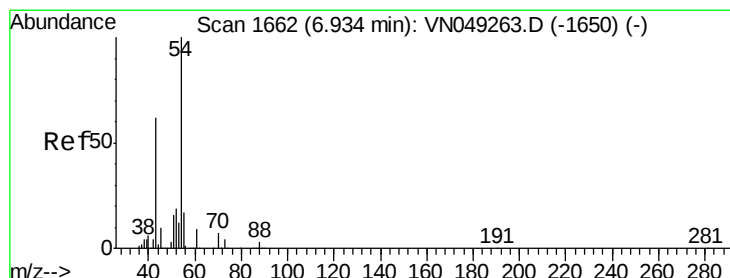
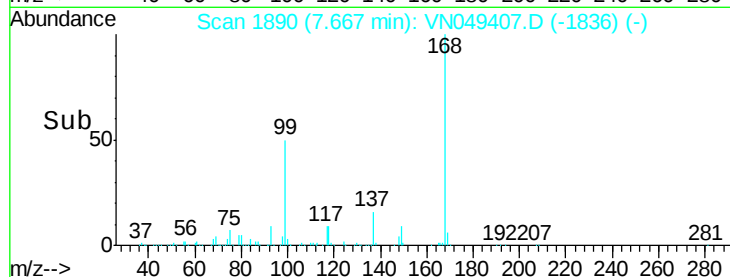
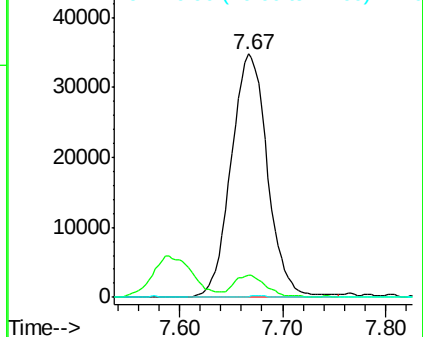
77 0.3 24.4 36.6#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#37

Ethyl Acetate

Concen: 0.56 ug/l

RT: 6.85 min Scan# 1637

Delta R.T. -0.08 min

Lab File: VN049407.D

Acq: 20 Jun 2018 00:39

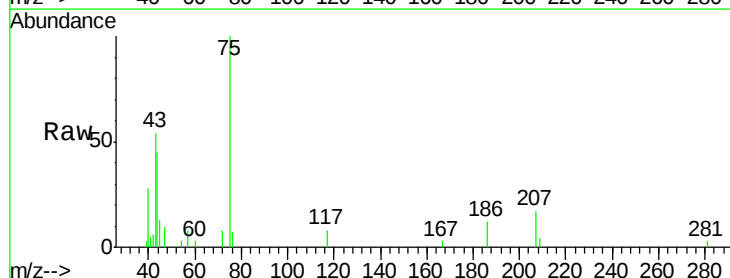
Tgt Ion: 43 Resp: 6974

Ion Ratio Lower Upper

43 100

61 0.9 11.0 16.4#

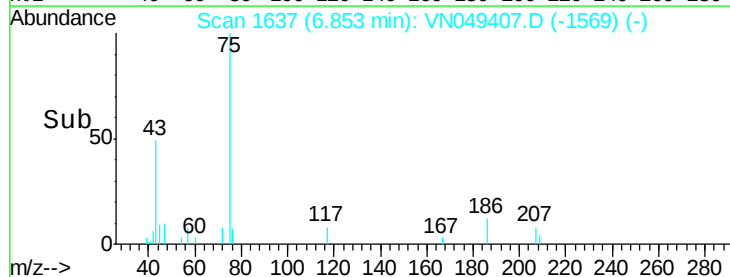
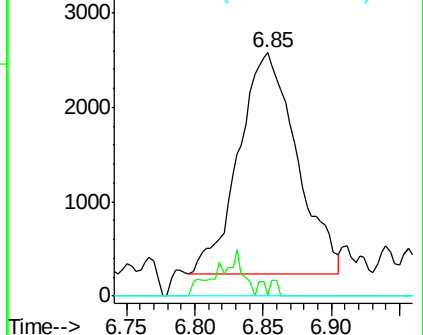
70 0.0 7.2 10.8#

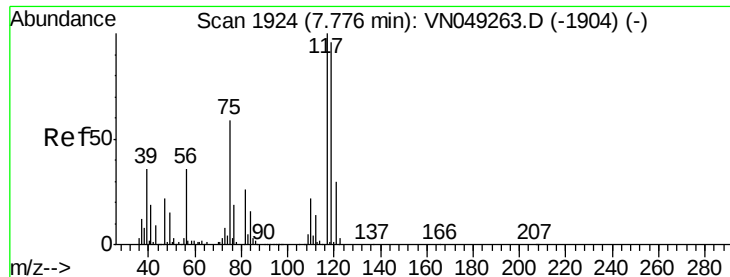


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 70.00 (69.70 to 70.70): VN0





#38

Carbon Tetrachloride

Concen: 4.73 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN049407.D

Acq: 20 Jun 2018 00:39

Instrument :

MSVOA_N

ClientSampleId :

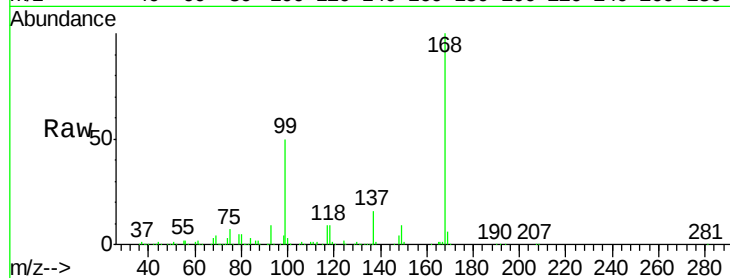
Tot Ion:117 Resp: 111542

Ion Ratio Lower Upper

117 100

119 6.1 75.6 113.4#

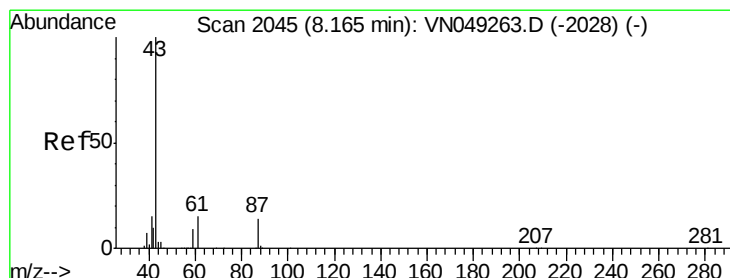
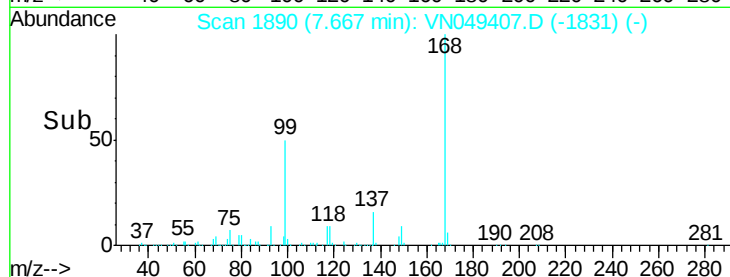
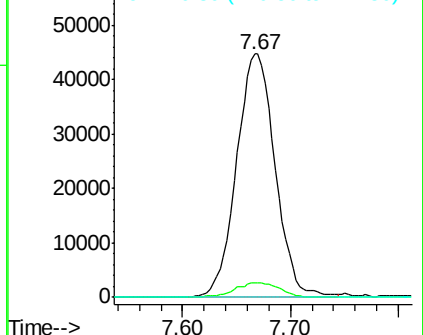
121 0.0 24.7 37.1#



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: 18.49 ug/l

RT: 8.22 min Scan# 2063

Delta R.T. 0.06 min

Lab File: VN049407.D

Acq: 20 Jun 2018 00:39

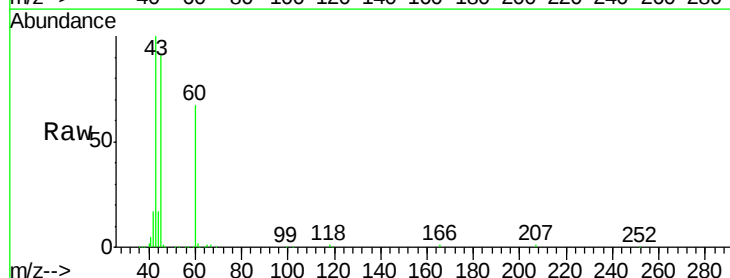
Tgt Ion: 43 Resp: 437699

Ion Ratio Lower Upper

43 100

61 0.9 14.2 21.4#

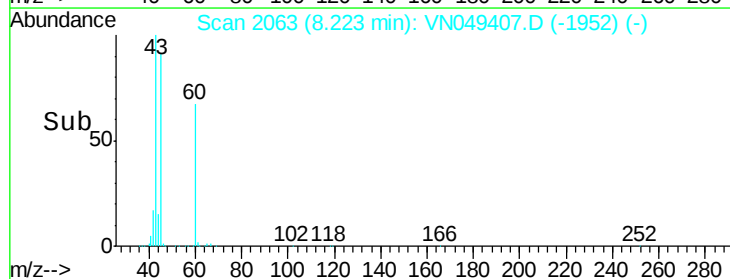
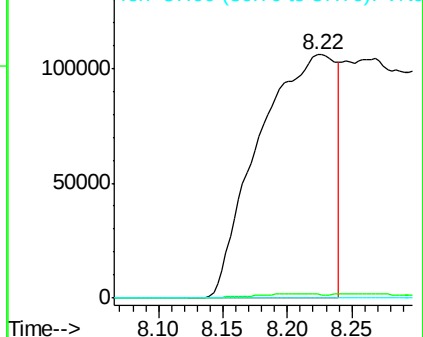
87 0.0 9.4 14.0#

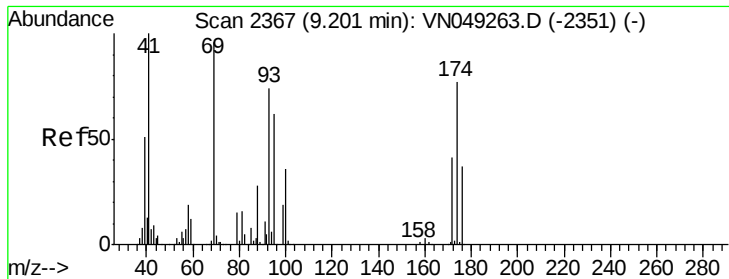


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

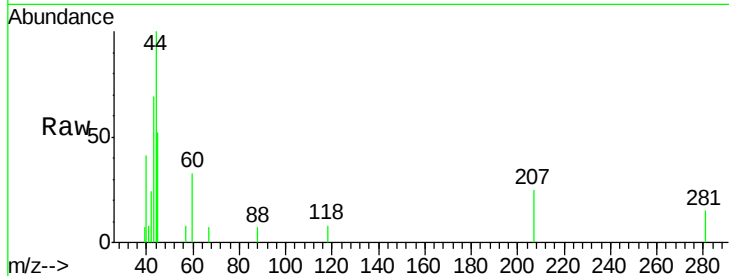




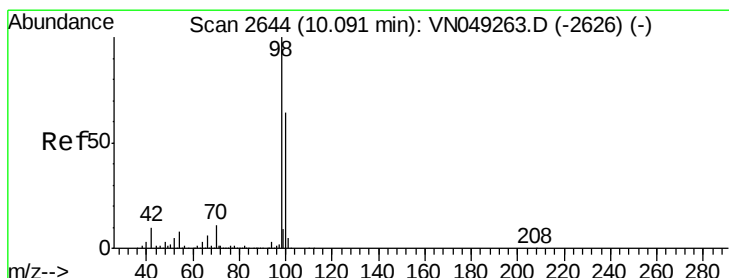
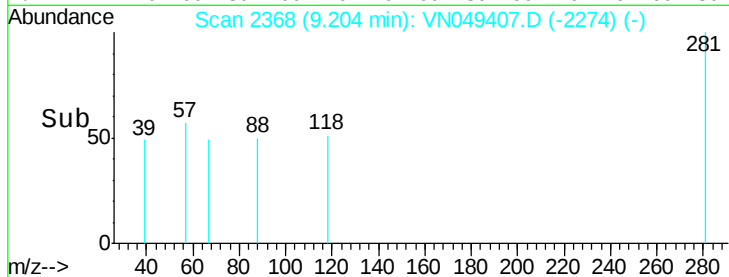
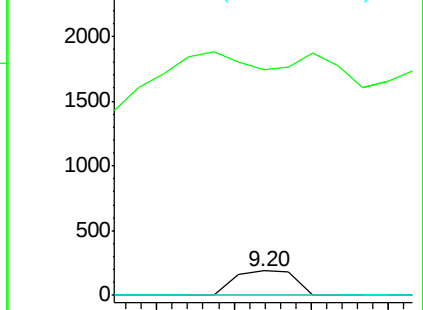
#49
1,4-Dioxane
Concen: 0.67 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN049407.D
Acq: 20 Jun 2018 00:39

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 88 Resp: 103
Ion Ratio Lower Upper
88 100
43 429.1 30.9 46.3#
58 0.0 58.9 88.3#

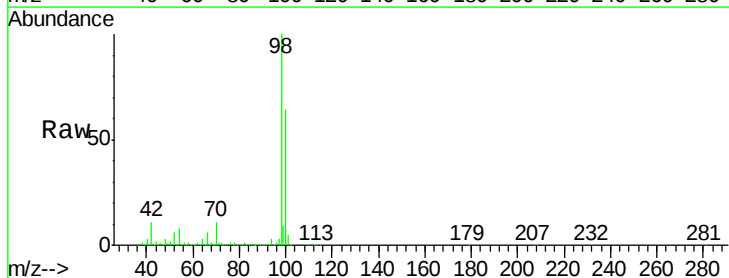


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

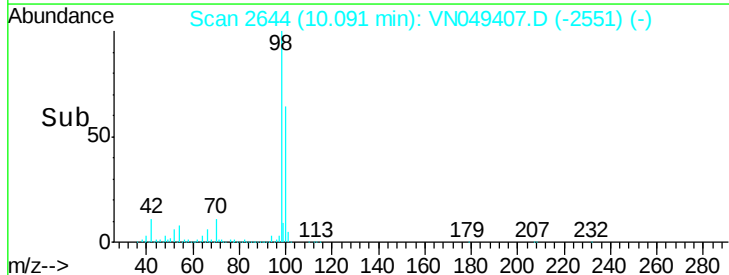
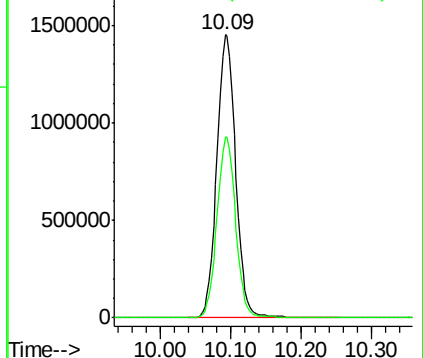


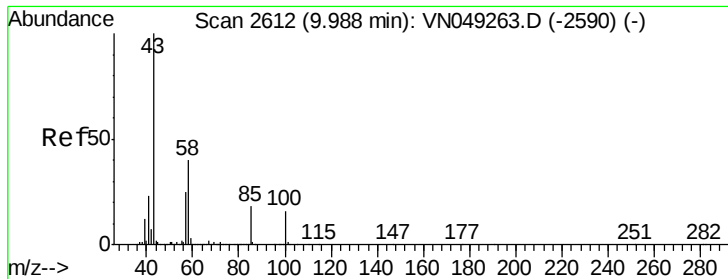
#50
Toluene-d8
Concen: 44.12 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN049407.D
Acq: 20 Jun 2018 00:39

Tgt Ion: 98 Resp: 2703581
Ion Ratio Lower Upper
98 100
100 63.4 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: 0.41 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. -0.00 min

Lab File: VN049407.D

Acq: 20 Jun 2018 00:39

Instrument :

MSVOA_N

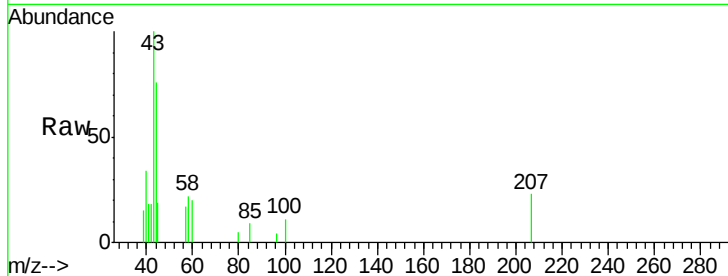
ClientSampleId :

Tot Ion: 43 Resp: 5030

Ion Ratio Lower Upper

43 100

58 29.1 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.99

3000

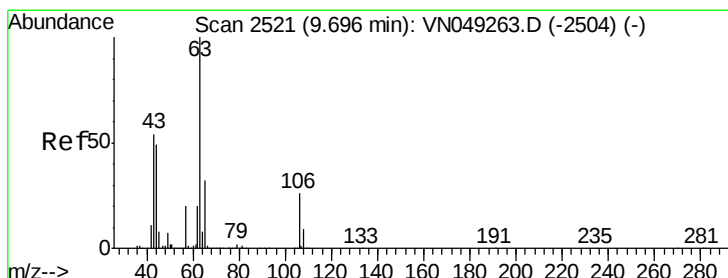
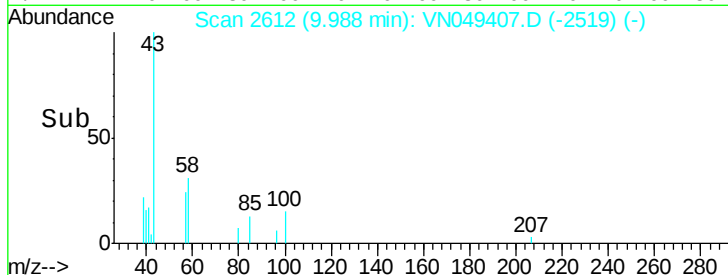
2000

1000

0

9.95 10.00 10.05

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 14.33 ug/l

RT: 9.65 min Scan# 2506

Delta R.T. -0.05 min

Lab File: VN049407.D

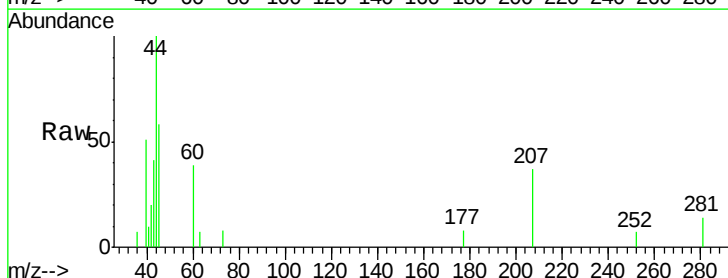
Acq: 20 Jun 2018 00:39

Tgt Ion: 63 Resp: 30

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

9.65

150

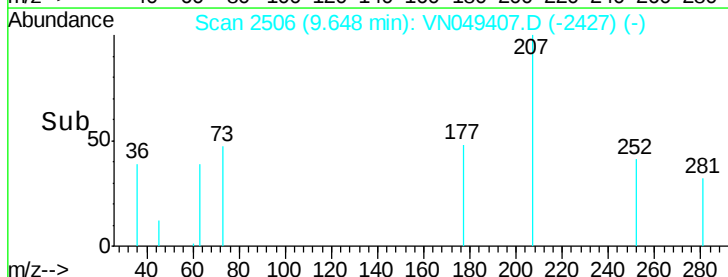
100

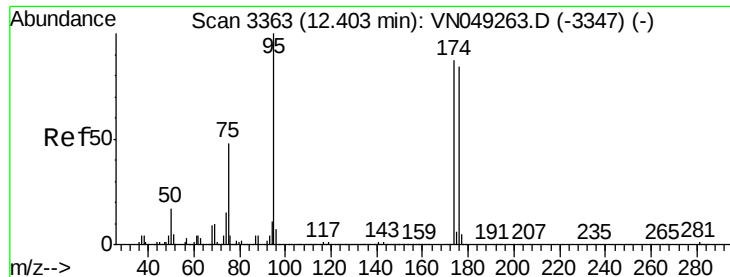
50

0

9.63 9.64 9.65

Time-->

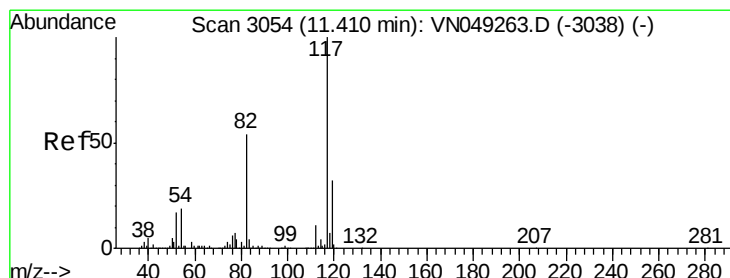
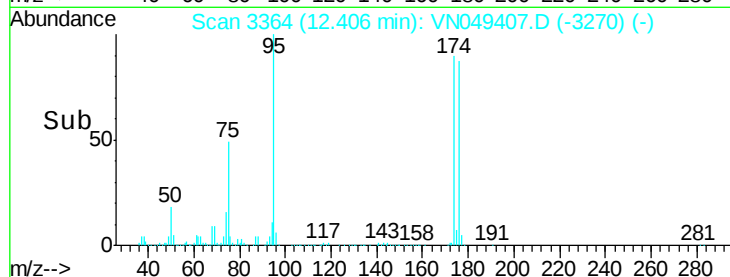
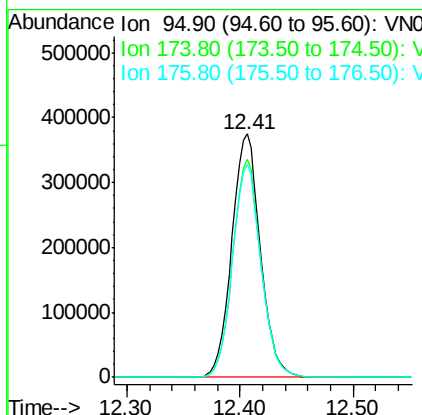
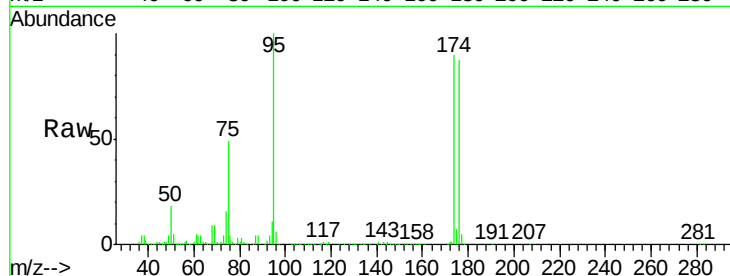




#62
4-Bromofluorobenzene
Concen: 32.49 ug/l
RT: 12.41 min Scan# 3364
Delta R.T. 0.00 min
Lab File: VN049407.D
Acq: 20 Jun 2018 00:39

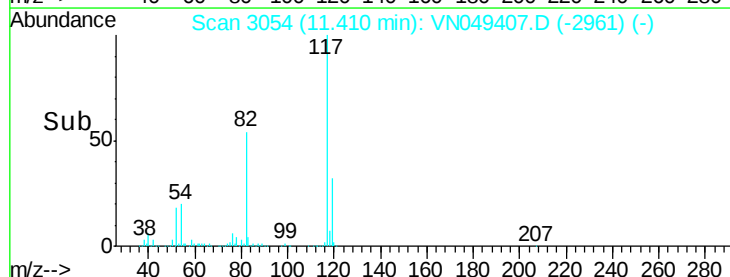
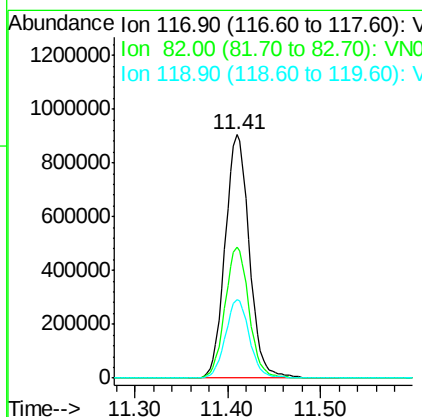
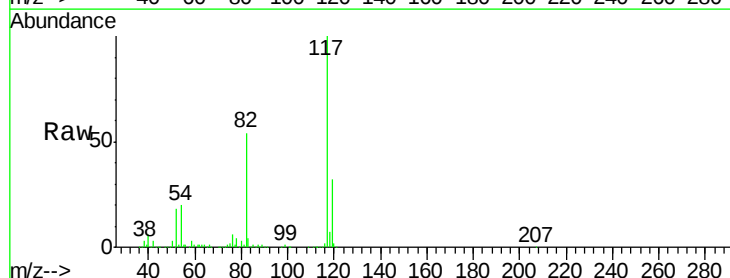
Instrument :
MSVOA_N
ClientSampled :

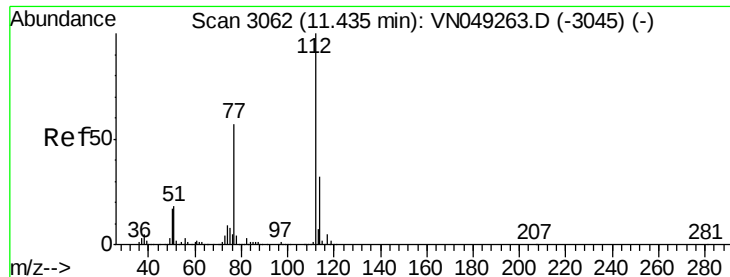
Tot Ion: 95 Resp: 658235
Ion Ratio Lower Upper
95 100
174 88.8 0.0 165.6
176 87.1 0.0 157.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN049407.D
Acq: 20 Jun 2018 00:39

Tgt Ion: 117 Resp: 1631470
Ion Ratio Lower Upper
117 100
82 53.9 45.9 68.9
119 32.4 25.5 38.3





#65

Chlorobenzene

Concen: 0.51 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN049407.D

Acq: 20 Jun 2018 00:39

Instrument :

MSVOA_N

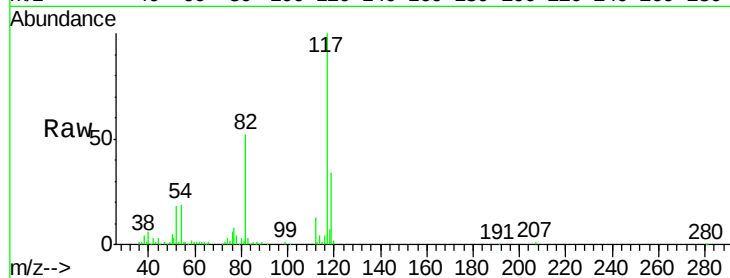
ClientSampleId :

Tot Ion:112 Resp: 21411

Ion Ratio Lower Upper

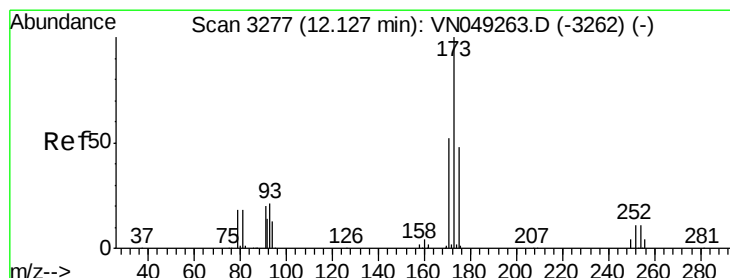
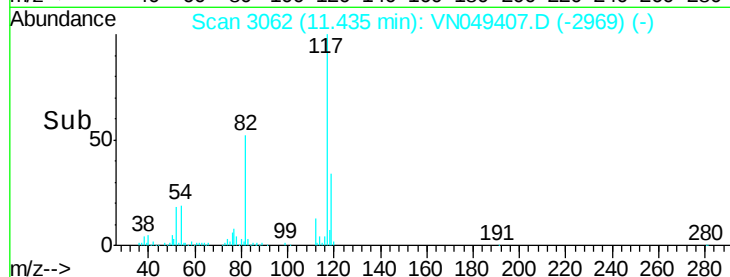
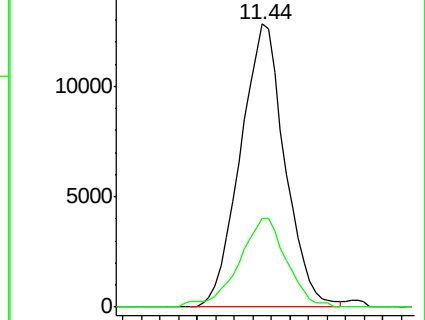
112 100

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



#71

Bromoform

Concen: 0.51 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.28 min

Lab File: VN049407.D

Acq: 20 Jun 2018 00:39

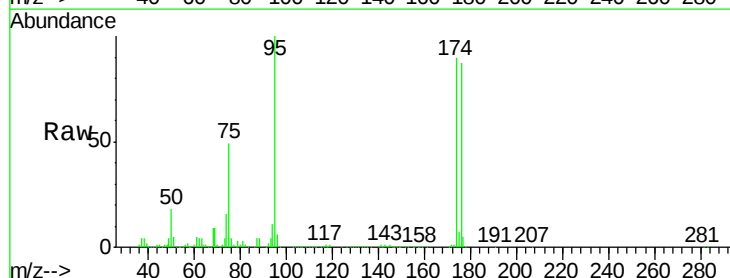
Tgt Ion:173 Resp: 5216

Ion Ratio Lower Upper

173 100

175 649.8 24.5 73.5#

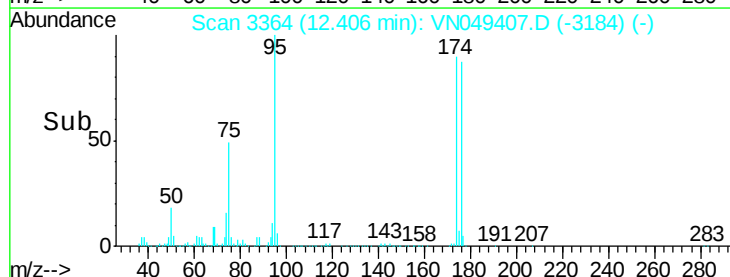
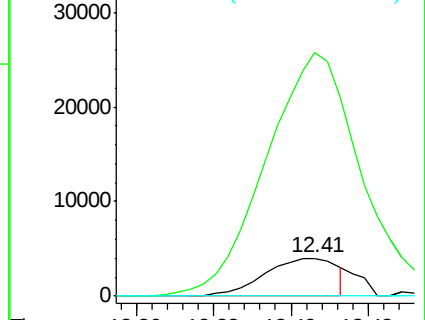
254 0.0 0.1 0.1#

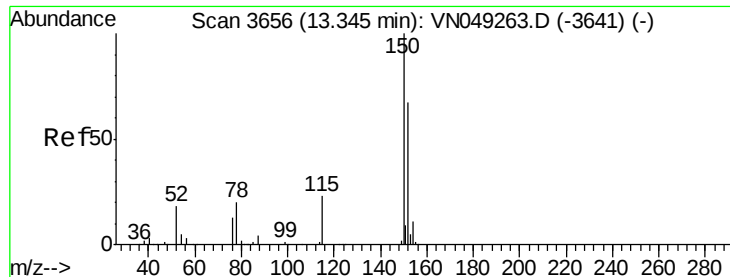


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VN049407.D

Acq: 20 Jun 2018 00:39

Instrument :

MSVOA_N

ClientSampled :

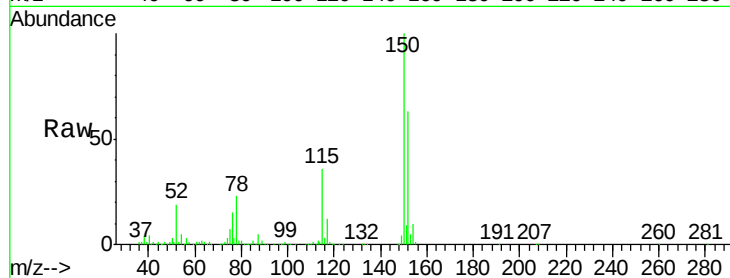
Tot Ion:152 Resp: 431995

Ion Ratio Lower Upper

152 100

115 56.5 28.7 86.1

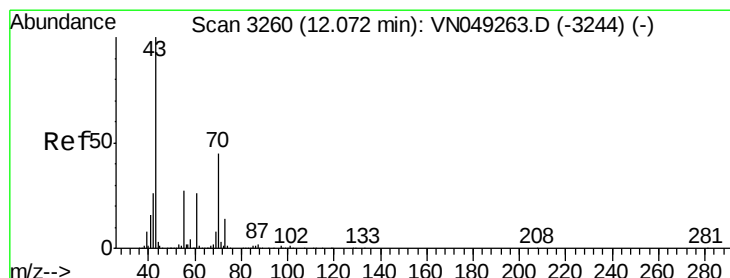
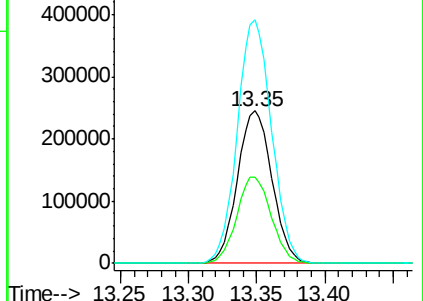
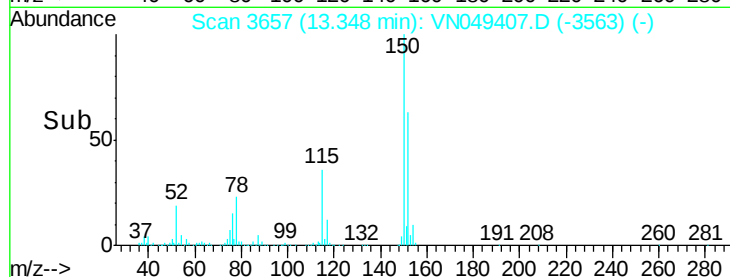
150 158.1 0.0 351.0



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



#74

N-ethyl acetate

Concen: 0.28 ug/l

RT: 12.05 min Scan# 3253

Delta R.T. -0.02 min

Lab File: VN049407.D

Acq: 20 Jun 2018 00:39

Tgt Ion: 43 Resp: 2600

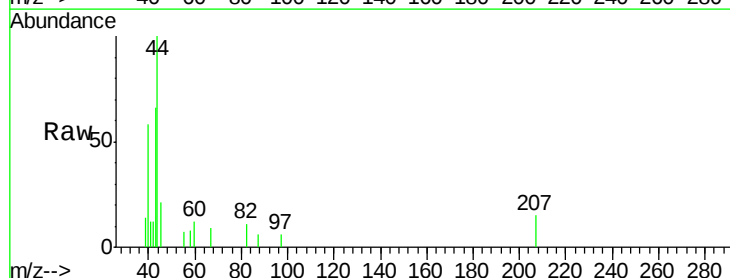
Ion Ratio Lower Upper

43 100

70 0.0 30.3 45.5#

55 3.8 19.4 29.2#

61 0.0 17.8 26.6#

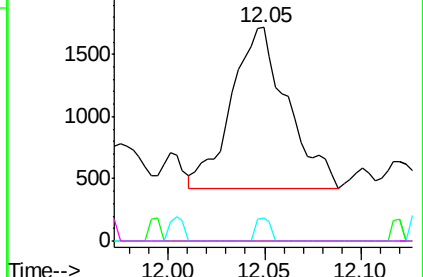
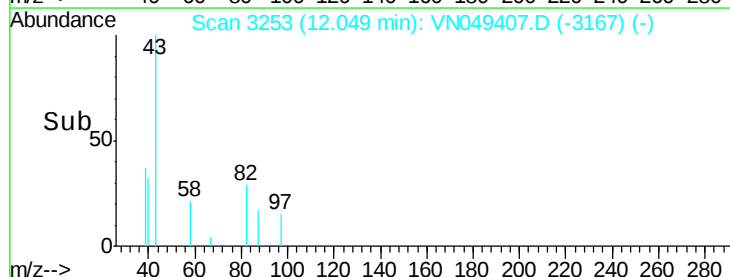


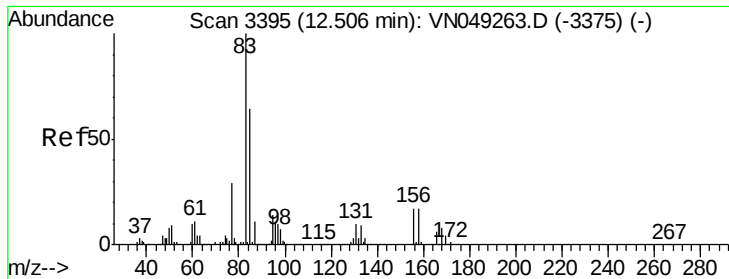
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3392

Delta R.T. -0.01 min

Lab File: VN049407.D

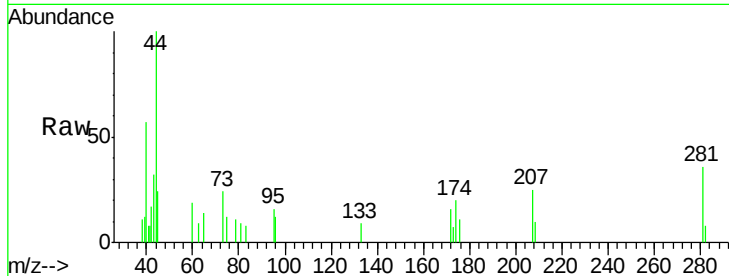
Acq: 20 Jun 2018 00:39

Instrument :

MSVOA_N

ClientSampled :

Tot Ion:	83	Resp:	31
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): VNC

Ion 130.80 (130.50 to 131.50): VNC

Ion 84.90 (84.60 to 85.60): VNC

12.50

150

100

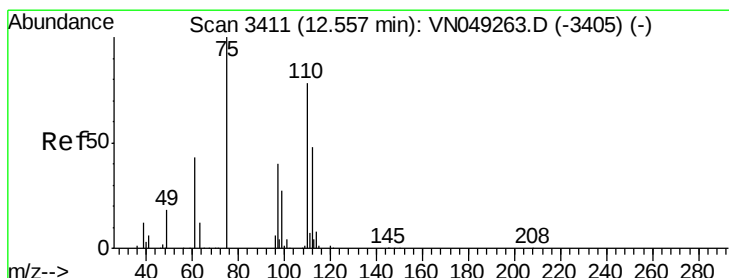
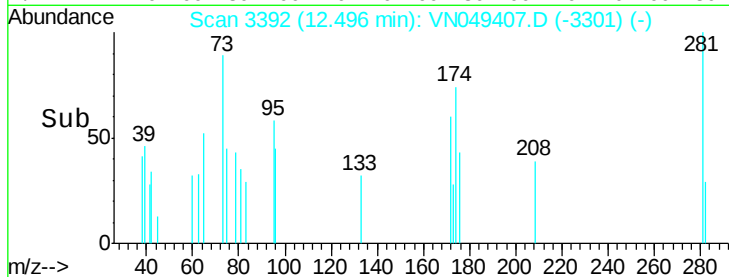
50

0

12.49

12.50

Time-->



#76

1,2,3-Trichloropropane

Concen: 43.65 ug/l

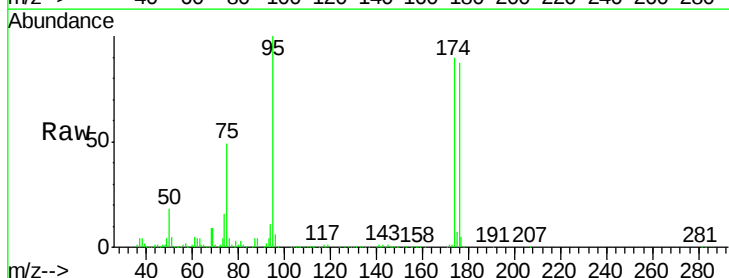
RT: 12.41 min Scan# 3364

Delta R.T. -0.15 min

Lab File: VN049407.D

Acq: 20 Jun 2018 00:39

Tgt Ion:	75	Resp:	321748
Ion	Ratio	Lower	Upper
75	100		
77	1.1	0.0	0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 77.00 (76.70 to 77.70): VNC

200000

150000

100000

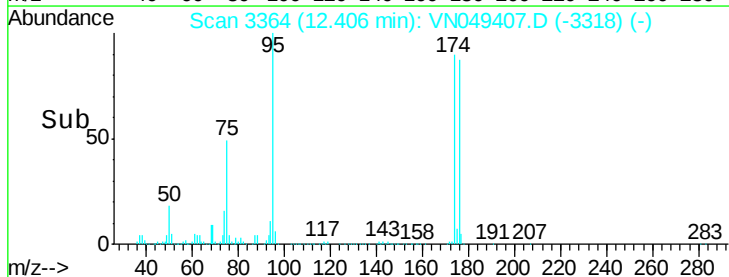
50000

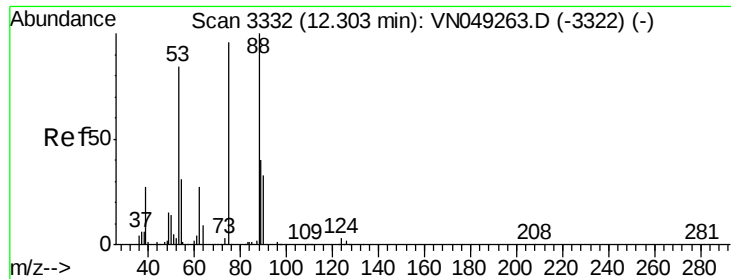
0

12.40

12.50

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 137.96 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.10 min

Lab File: VN049407.D

Acq: 20 Jun 2018 00:39

Instrument :

MSVOA_N

ClientSampled :

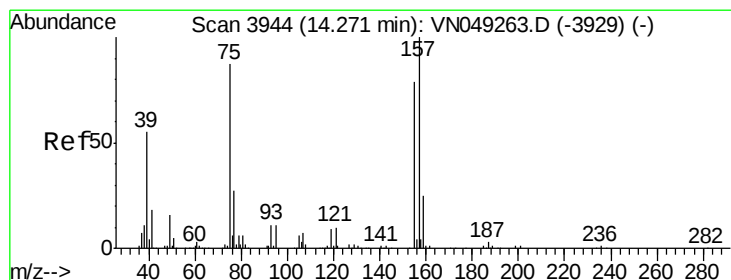
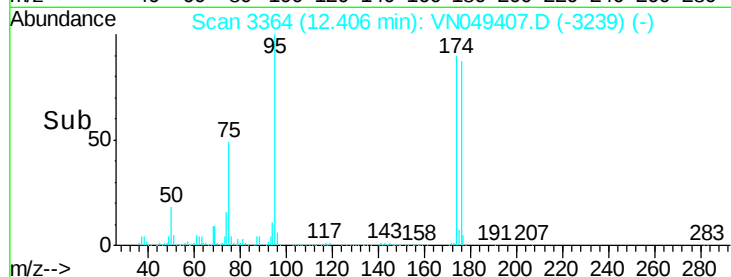
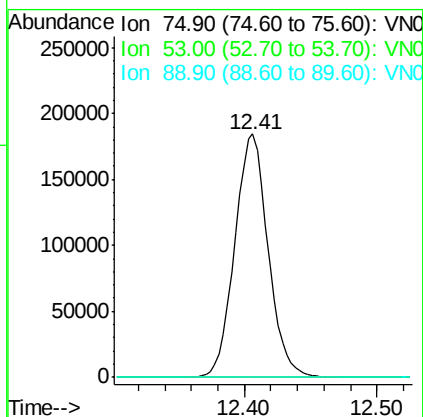
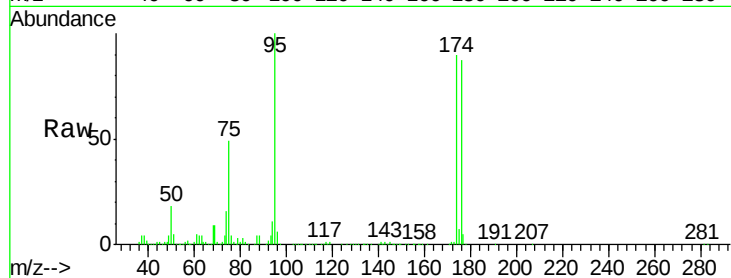
Tot Ion: 75 Resp: 321748

Ion Ratio Lower Upper

75 100

53 0.2 82.7 124.1#

89 0.0 36.5 54.7#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.66 ug/l

RT: 14.25 min Scan# 3938

Delta R.T. -0.02 min

Lab File: VN049407.D

Acq: 20 Jun 2018 00:39

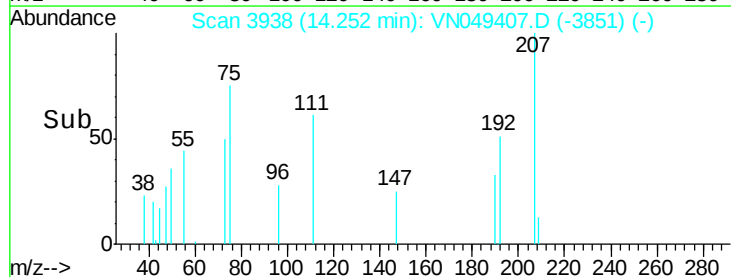
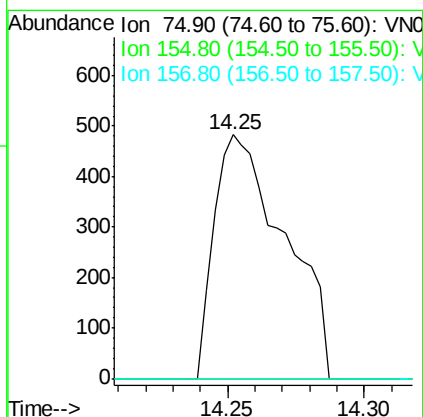
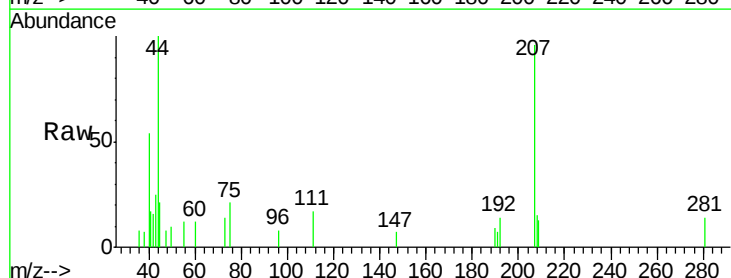
Tgt Ion: 75 Resp: 866

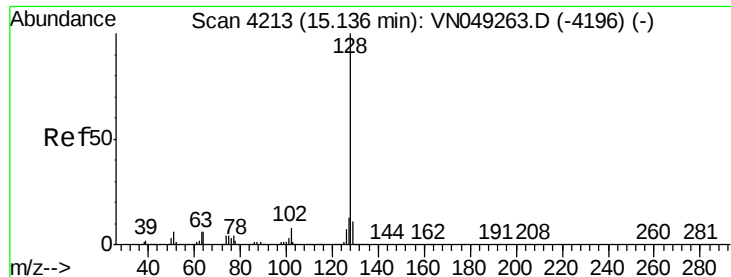
Ion Ratio Lower Upper

75 100

155 0.0 38.8 116.3#

157 0.0 51.0 153.1#





#95
Naphthalene
Concen: 2.11 ug/l
RT: 15.13 min Scan# 4211
Delta R.T. -0.01 min
Lab File: VN049407.D
Acq: 20 Jun 2018 00:39

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:128 Resp: 412
Ion Ratio Lower Upper
128 100
127 0.0 10.6 16.0#
129 16.0 8.5 12.7#

