

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062218\
 Data File : VN049497.D
 Acq On : 22 Jun 2018 17:40
 Operator : MD\SY
 Sample : PB116445ZHE#10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 22 22:16:00 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	1141344	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1776560	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1485235	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	382776	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	779386	51.49	ug/l	0.00
Spiked Amount			Recovery	=	102.98%	
35) Dibromofluoromethane	7.59	113	685322	47.68	ug/l	0.00
Spiked Amount			Recovery	=	95.36%	
50) Toluene-d8	10.09	98	2464563	45.03	ug/l	0.00
Spiked Amount			Recovery	=	90.06%	
62) 4-Bromofluorobenzene	12.40	95	591456	32.68	ug/l	0.00
Spiked Amount			Recovery	=	65.36%	

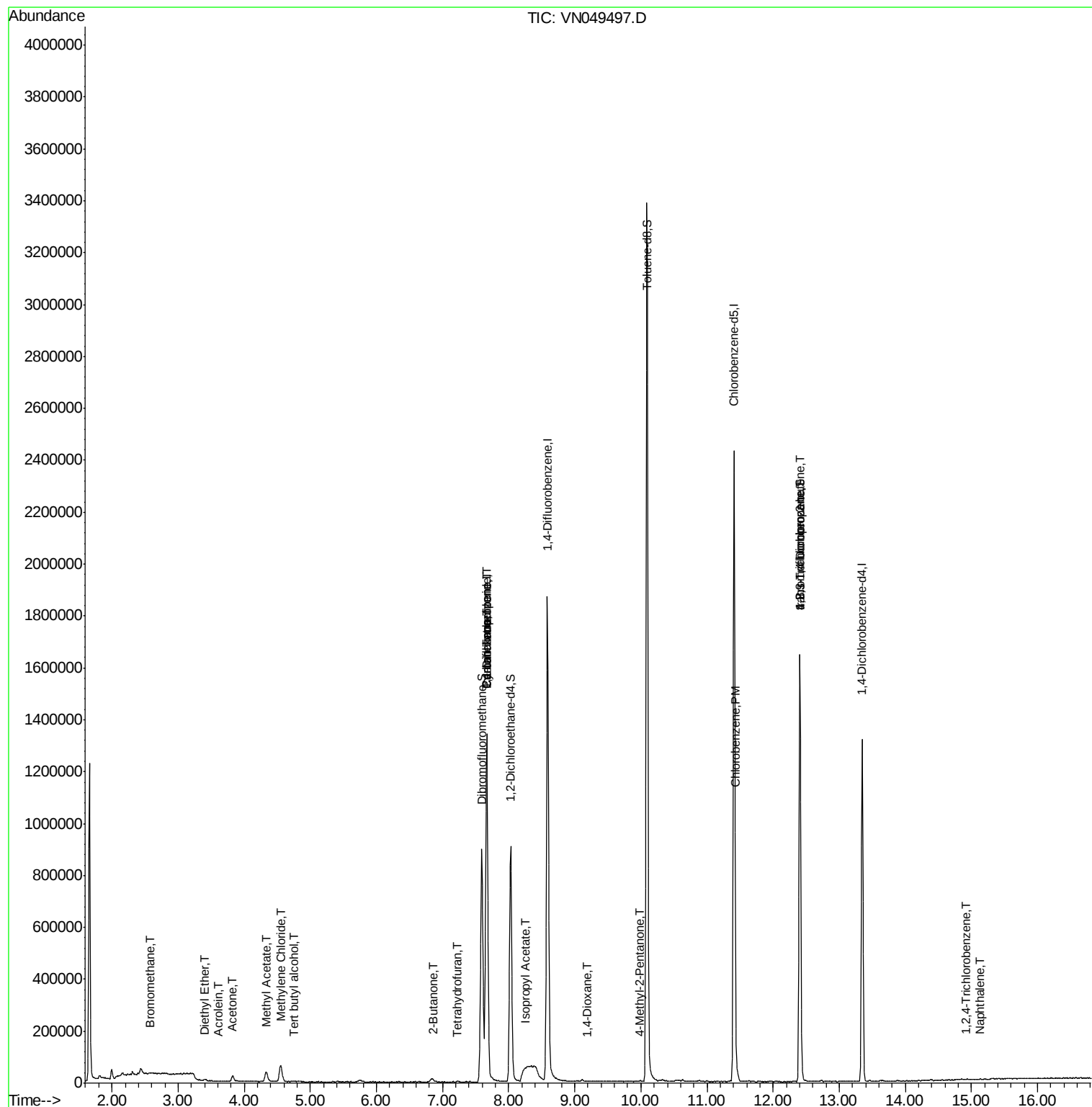
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	3711	0.39	ug/l	87
8) Diethyl Ether	3.40	74	2010	0.26	ug/l	49
11) Tert butyl alcohol	4.75	59	1794	2.02	ug/l #	70
13) Acrolein	3.60	56	752	0.81	ug/l	93
16) Acetone	3.82	43	33352	9.07	ug/l	91
18) Methyl Acetate	4.33	43	74983	6.69	ug/l	94
20) Methylene Chloride	4.55	84	47664	3.10	ug/l	90
25) 2-Butanone	6.86	43	6331	1.28	ug/l #	86
29) Tetrahydrofuran	7.23	42	1643	0.52	ug/l #	72
31) Cyclohexane	7.67	56	21278	0.78	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	82020	4.03	ug/l #	50
38) Carbon Tetrachloride	7.67	117	105764	5.02	ug/l #	17
43) Isopropyl Acetate	8.25	43	59573	2.82	ug/l #	64
49) 1,4-Dioxane	9.20	88	123	0.89	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	2773	0.25	ug/l	90
65) Chlorobenzene	11.44	112	14234	0.37	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.41	83	654	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	290075	44.41	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	290075	140.37	ug/l #	8
93) 1,2,4-Trichlorobenzene	14.92	180	178	4.77	ug/l #	69
95) Naphthalene	15.14	128	452	2.12	ug/l #	69

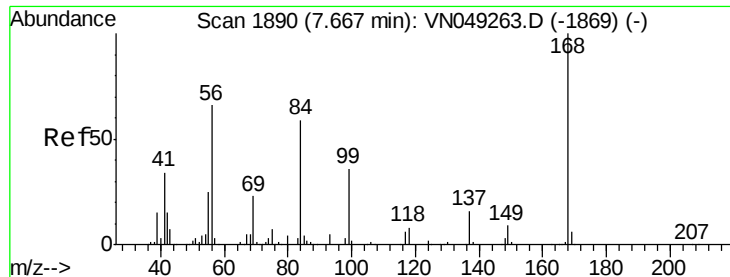
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 22 Jun 2018 17:40
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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# 1891

Delta R.T. 0.00 min

Lab File: VN049497.D

Acq: 22 Jun 2018 17:40

Instrument :

MSVOA_N

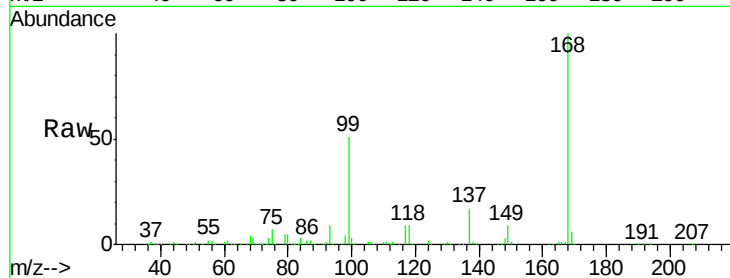
ClientSampleId :

Tot Ion:168 Resp: 1141344

Ion Ratio Lower Upper

168 100

99 51.5 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): VN049263.D (-1869) (-)

Ion 98.90 (98.60 to 99.60): VN049263.D (-1869) (-)

7.67

500000

400000

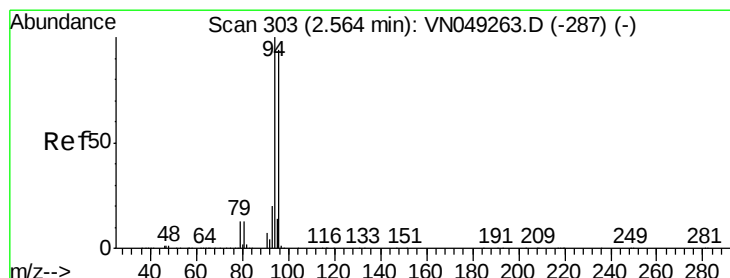
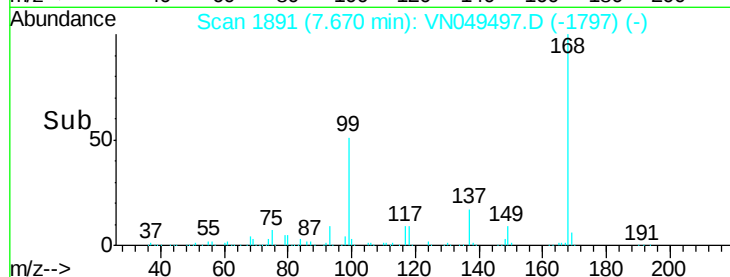
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: 0.39 ug/l

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN049497.D

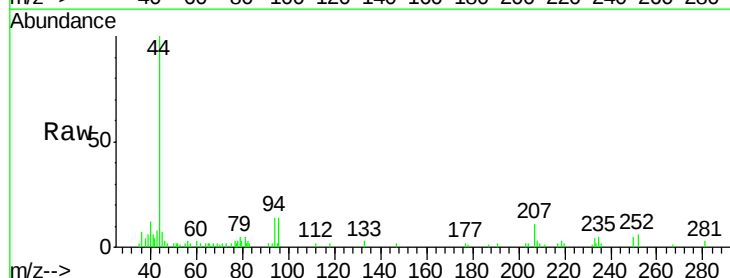
Acq: 22 Jun 2018 17:40

Tgt Ion: 94 Resp: 3711

Ion Ratio Lower Upper

94 100

96 103.5 72.8 109.2



Abundance Ion 93.90 (93.60 to 94.60): VN049263.D (-287) (-)

Ion 95.90 (95.60 to 96.60): VN049263.D (-287) (-)

2000

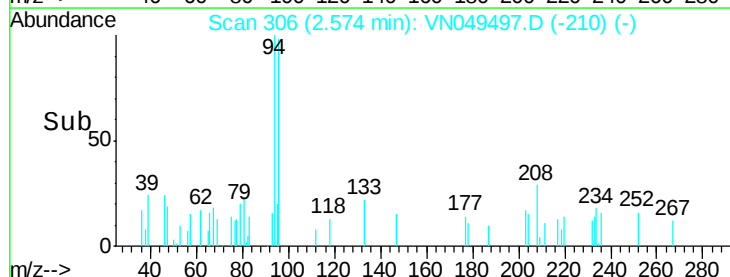
1500

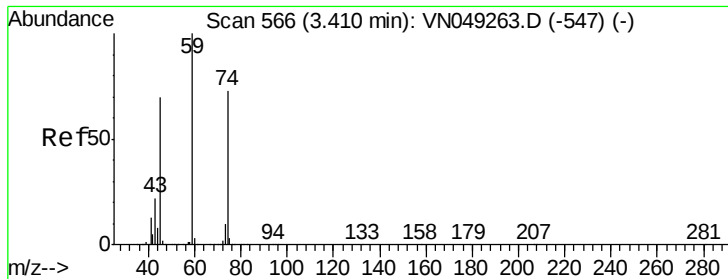
1000

500

0

Time-->





#8

Diethyl Ether

Concen: 0.26 ug/l

RT: 3.40 min Scan# 564

Delta R.T. -0.01 min

Lab File: VN049497.D

Acq: 22 Jun 2018 17:40

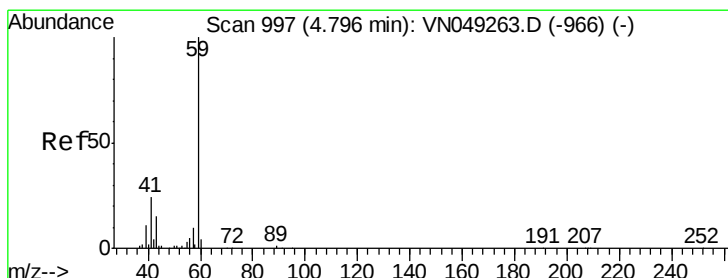
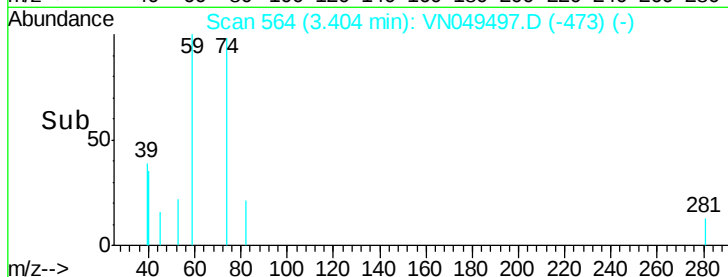
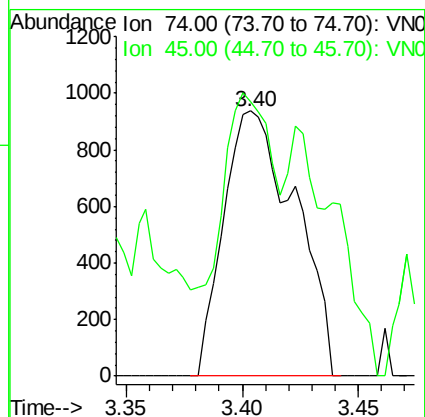
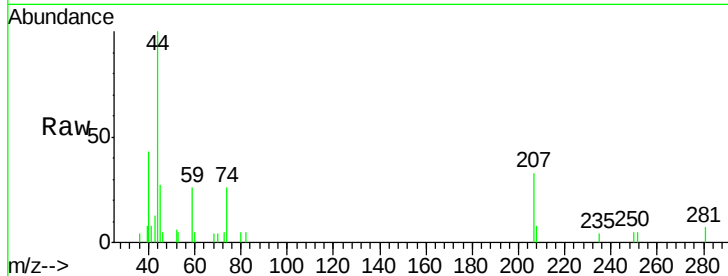
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 74 Resp: 2010

Ion Ratio Lower Upper

74 100

45 52.1 51.9 155.8



#11

Tert butyl alcohol

Concen: 2.02 ug/l

RT: 4.75 min Scan# 982

Delta R.T. -0.05 min

Lab File: VN049497.D

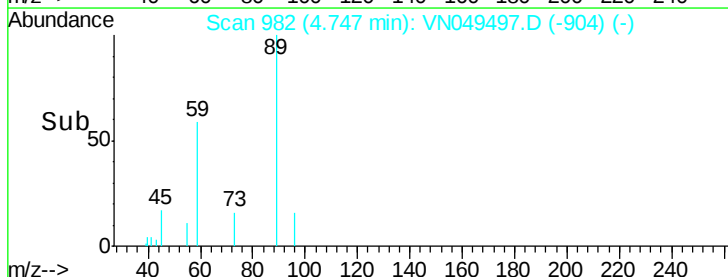
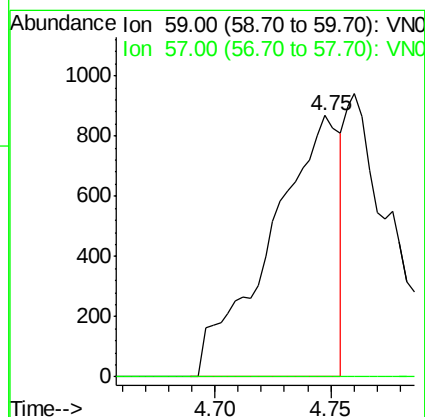
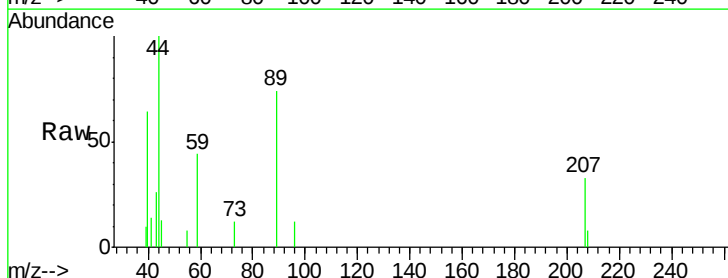
Acq: 22 Jun 2018 17:40

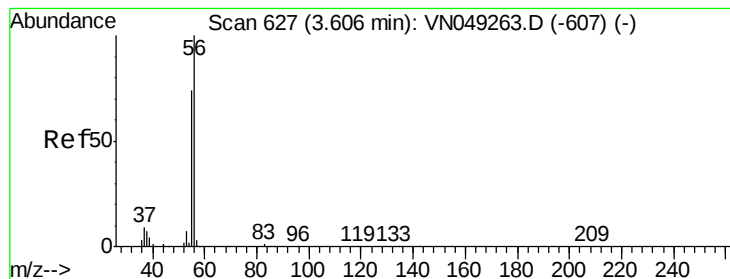
Tgt Ion: 59 Resp: 1794

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.6#





#13

Acrolein

Concen: 0.81 ug/l

RT: 3.60 min Scan# 626

Delta R.T. -0.00 min

Lab File: VN049497.D

Acq: 22 Jun 2018 17:40

Instrument :

MSVOA_N

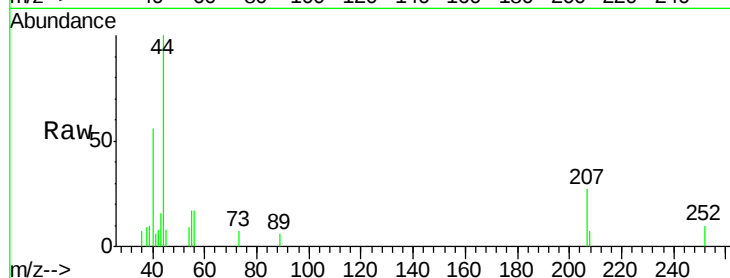
ClientSampled :

Tot Ion: 56 Resp: 752

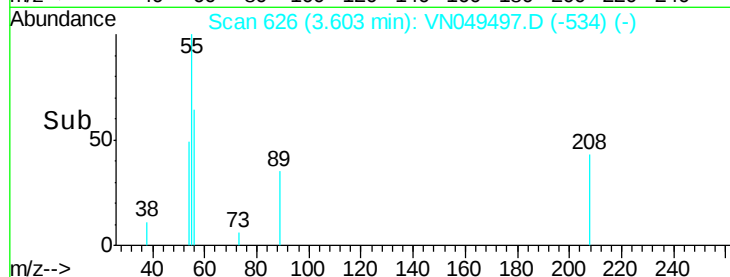
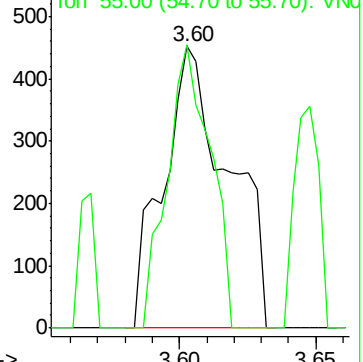
Ion Ratio Lower Upper

56 100

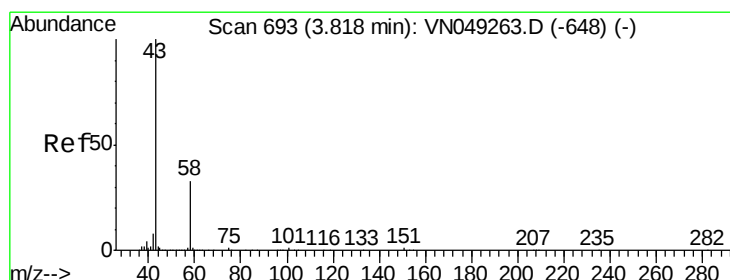
55 66.0 57.1 85.7



Abundance Ion 56.00 (55.70 to 56.70): VN049497.D (-534) (-)



Time-->



#16

Acetone

Concen: 9.07 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.01 min

Lab File: VN049497.D

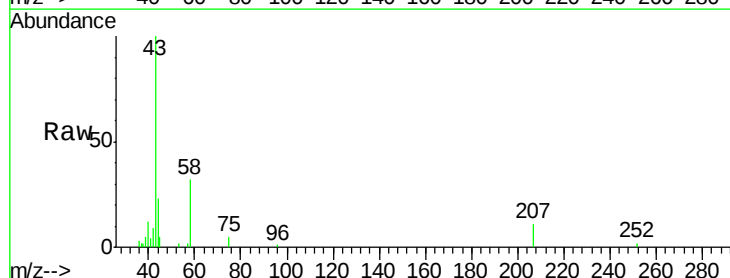
Acq: 22 Jun 2018 17:40

Tgt Ion: 43 Resp: 33352

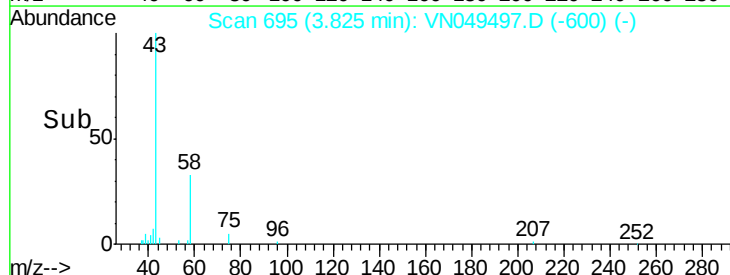
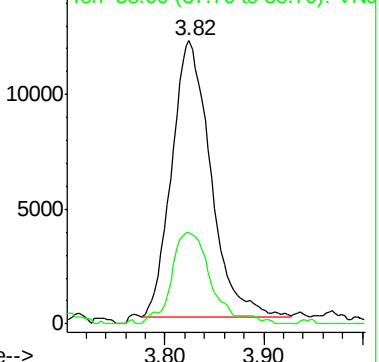
Ion Ratio Lower Upper

43 100

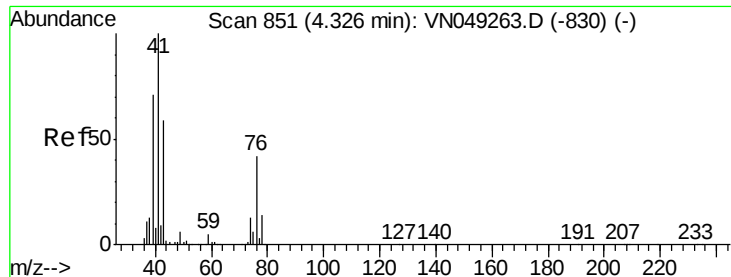
58 33.0 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VN049497.D (-600) (-)



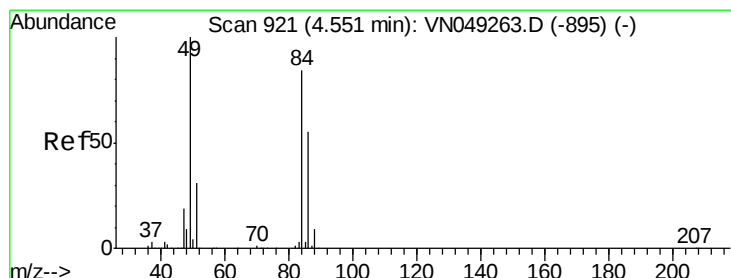
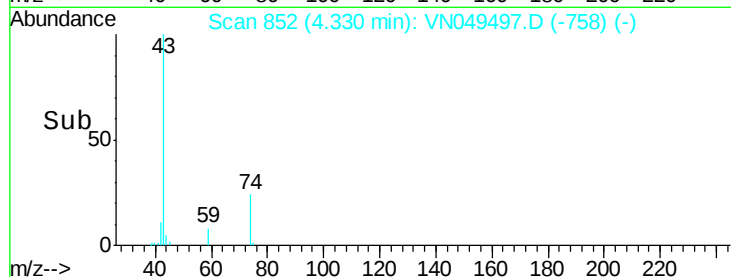
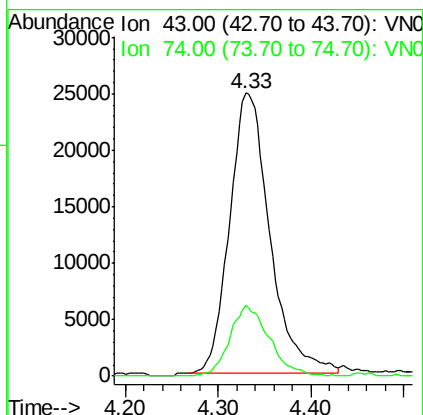
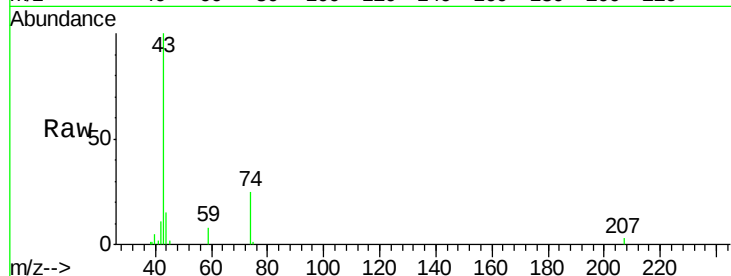
Time-->



#18
Methvl Acetate
Concen: 6.69 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN049497.D
Acq: 22 Jun 2018 17:40

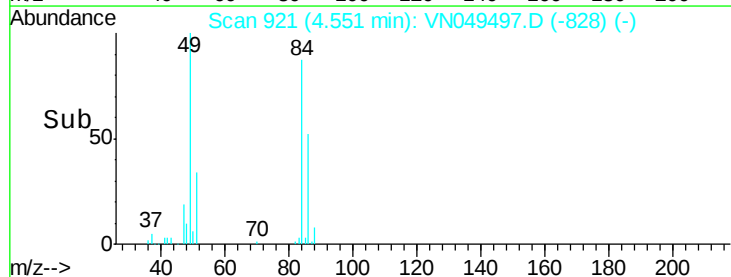
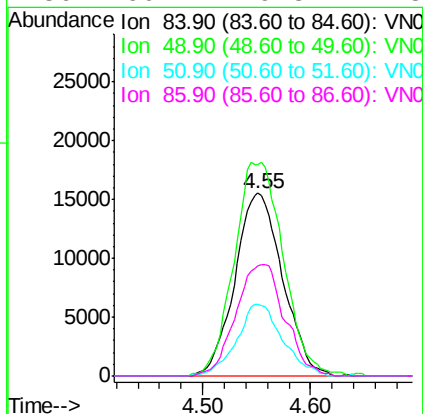
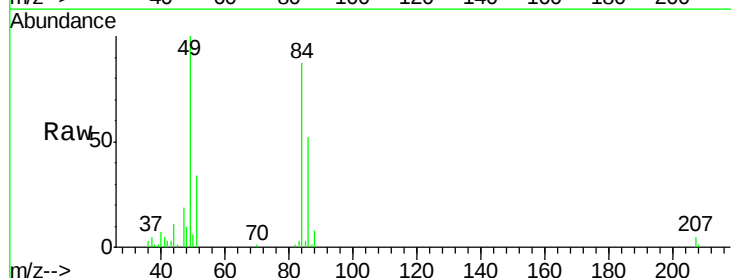
Instrument :
MSVOA_N
ClientSampled :

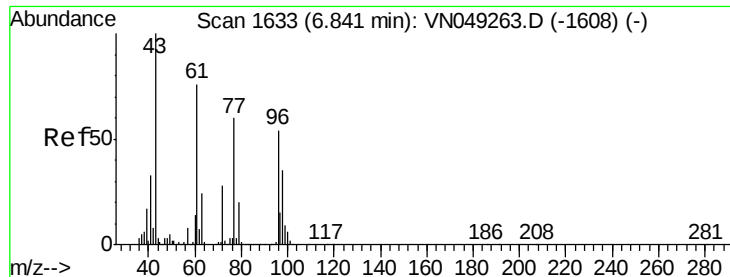
Tot Ion: 43 Resp: 74983
Ion Ratio Lower Upper
43 100
74 24.5 17.4 26.0



#20
Methylene Chloride
Concen: 3.10 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN049497.D
Acq: 22 Jun 2018 17:40

Tgt Ion: 84 Resp: 47664
Ion Ratio Lower Upper
84 100
49 115.3 106.9 160.3
51 39.0 32.7 49.1
86 60.2 49.8 74.8

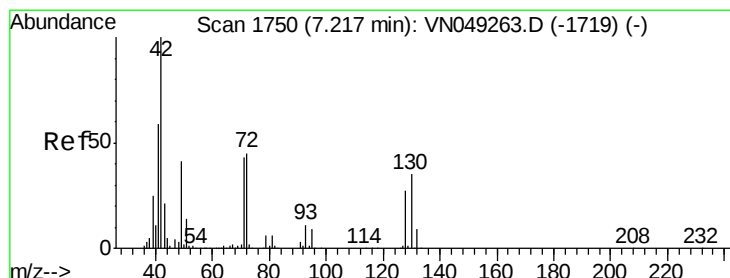
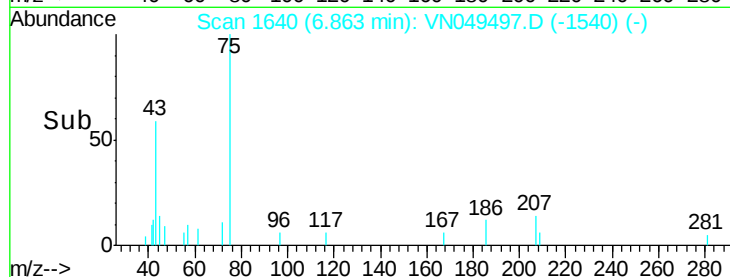
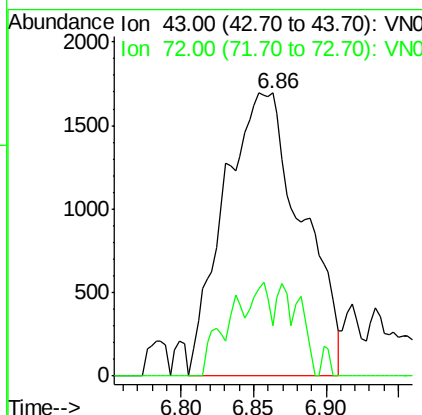
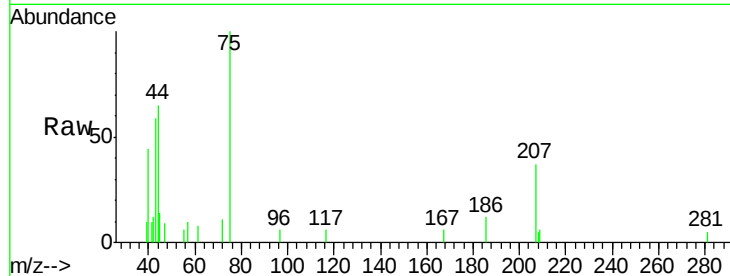




#25
2-Butanone
Concen: 1.28 ug/l
RT: 6.86 min Scan# 1640
Delta R.T. 0.02 min
Lab File: VN049497.D
Acq: 22 Jun 2018 17:40

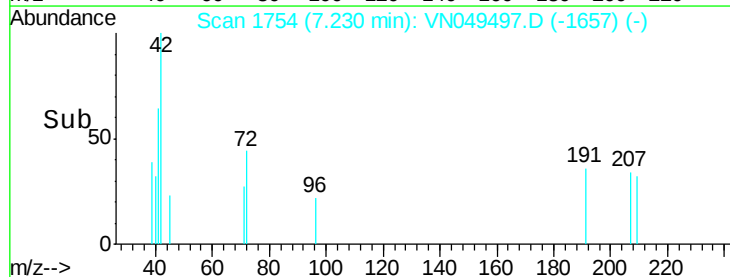
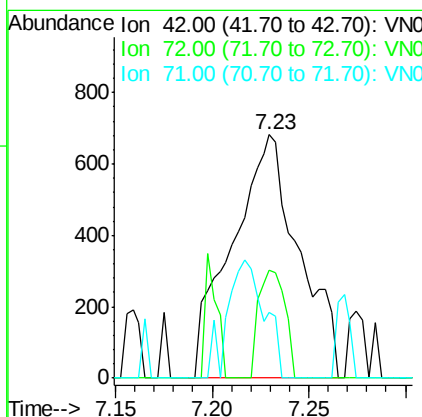
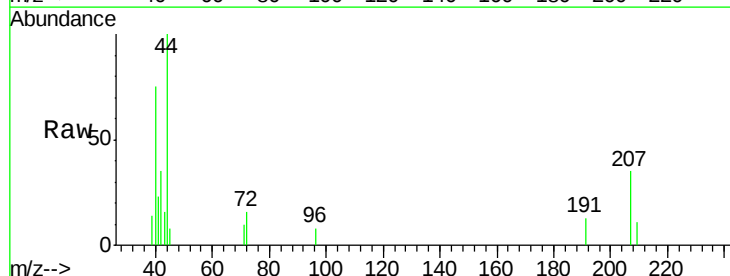
Instrument :
MSVOA_N
ClientSampled :

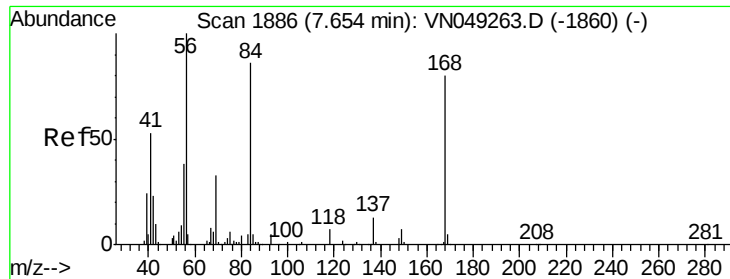
Tot Ion: 43 Resp: 6331
Ion Ratio Lower Upper
43 100
72 18.0 20.2 30.2#



#29
Tetrahydrofuran
Concen: 0.52 ug/l
RT: 7.23 min Scan# 1754
Delta R.T. 0.01 min
Lab File: VN049497.D
Acq: 22 Jun 2018 17:40

Tgt Ion: 42 Resp: 1643
Ion Ratio Lower Upper
42 100
72 17.6 32.2 48.4#
71 26.5 30.5 45.7#

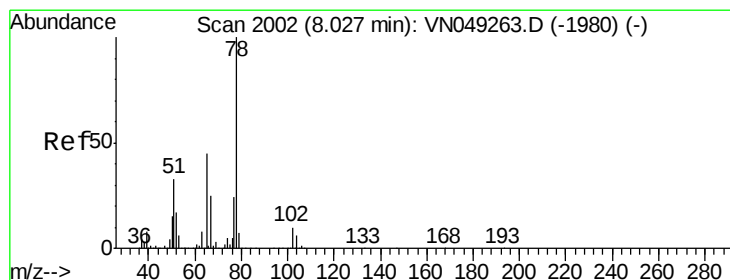
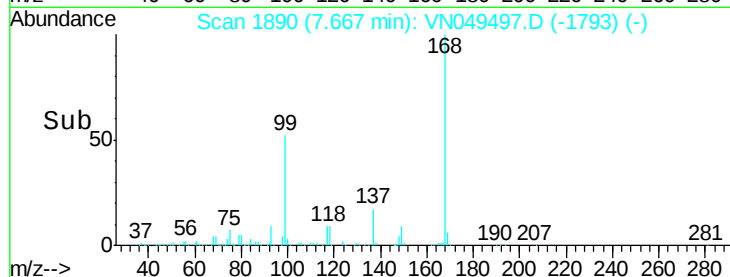
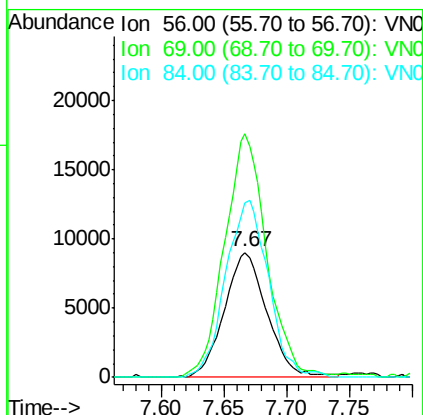
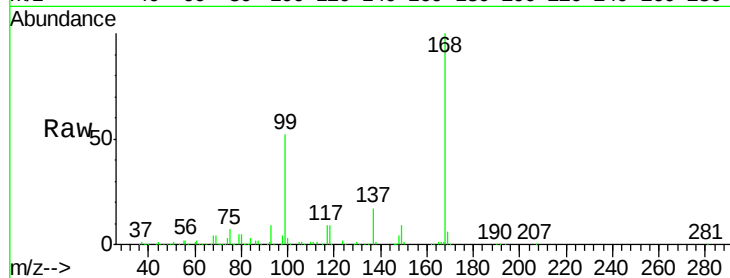




#31
Cvclohexane
Concen: 0.78 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN049497.D
Acq: 22 Jun 2018 17:40

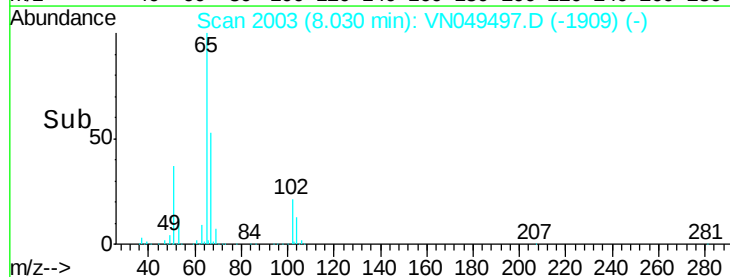
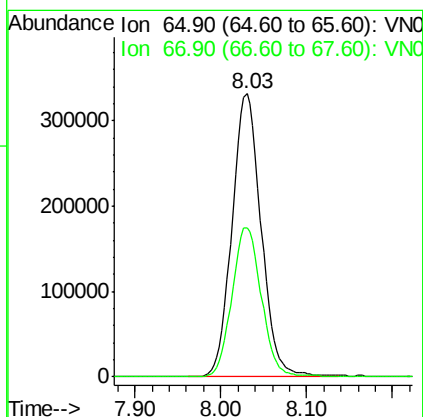
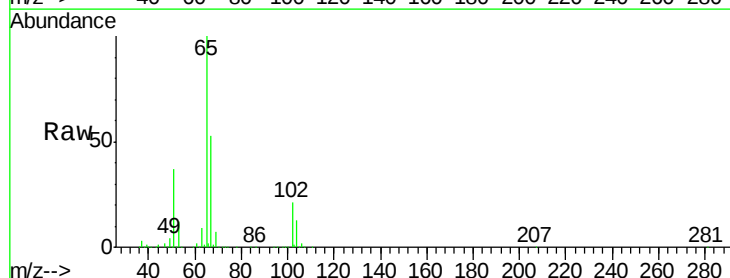
Instrument :
MSVOA_N
ClientSampled :

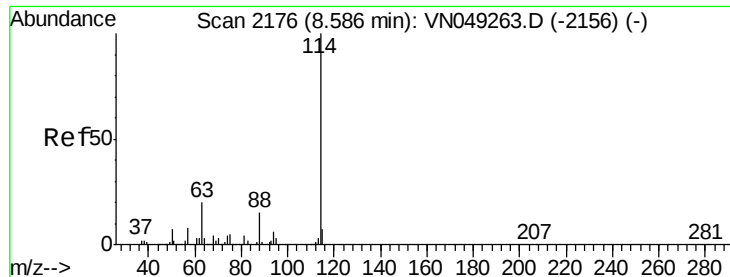
Tot Ion: 56 Resp: 21278
Ion Ratio Lower Upper
56 100
69 192.5 25.0 37.4#
84 139.9 64.6 96.8#



#33
1,2-Dichloroethane-d4
Concen: 51.49 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049497.D
Acq: 22 Jun 2018 17:40

Tgt Ion: 65 Resp: 779386
Ion Ratio Lower Upper
65 100
67 53.2 0.0 103.8

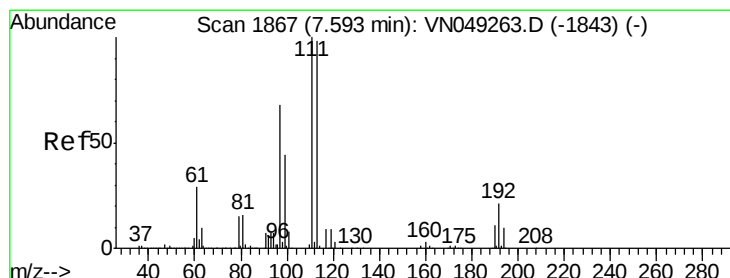
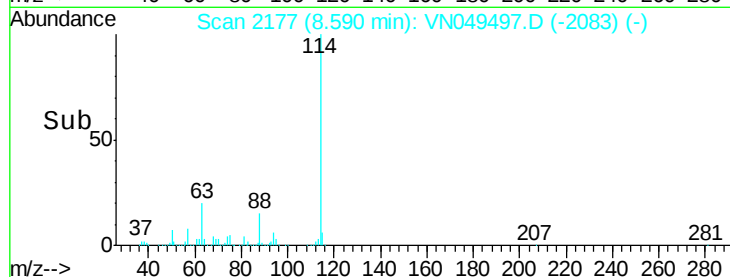
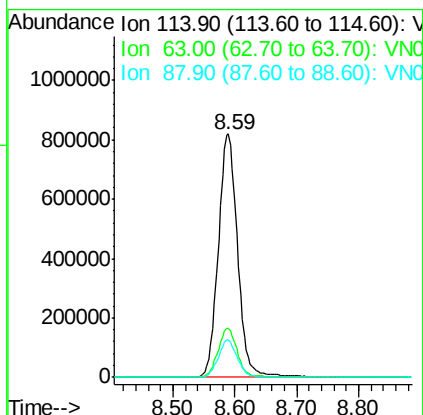
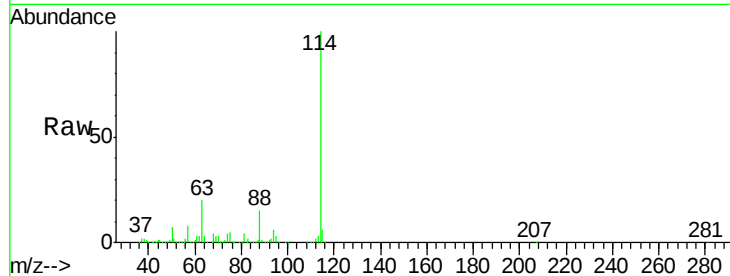




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN049497.D
 Acq: 22 Jun 2018 17:40

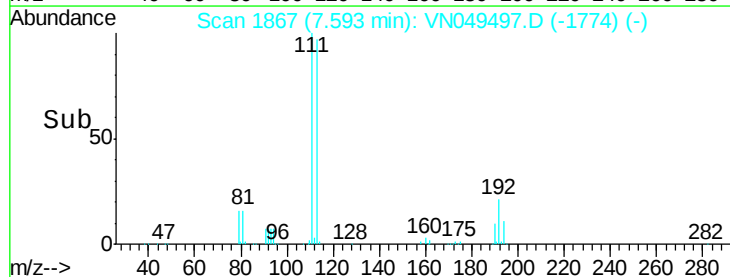
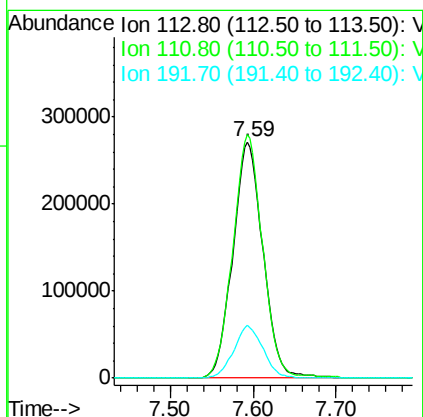
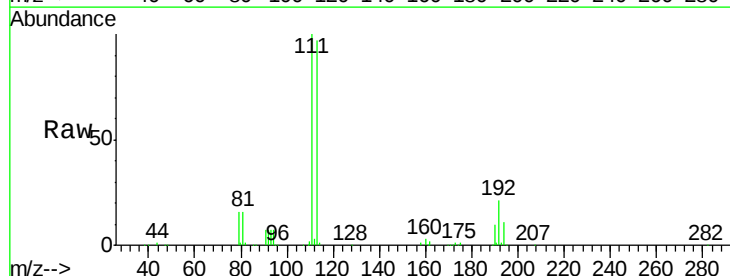
Instrument :
 MSVOA_N
 ClientSampled :

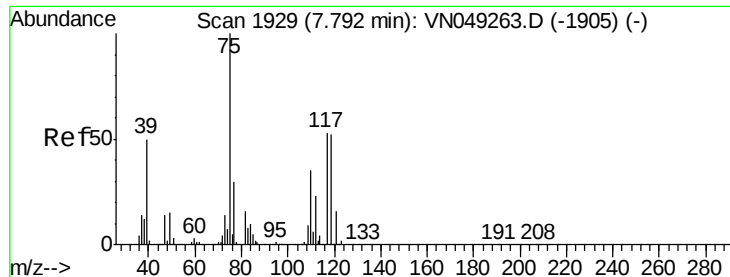
Tot Ion:114 Resp: 1776560
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 44.4
 88 15.5 0.0 31.4



#35
 Dibromofluoromethane
 Concen: 47.68 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049497.D
 Acq: 22 Jun 2018 17:40

Tgt Ion:113 Resp: 685322
 Ion Ratio Lower Upper
 113 100
 111 102.6 82.4 123.6
 192 21.7 15.0 22.6





#36

1,1-Dichloropropene

Concen: 4.03 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN049497.D

Acq: 22 Jun 2018 17:40

Instrument :

MSVOA_N

ClientSampleId :

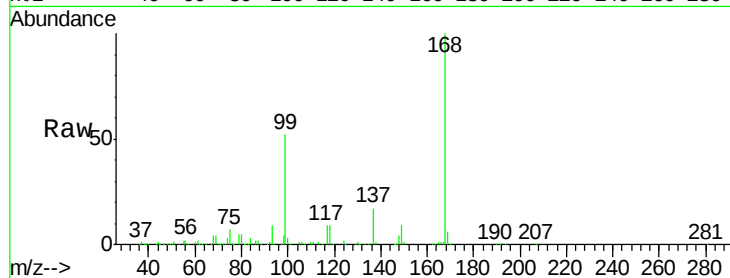
Tot Ion: 75 Resp: 82020

Ion Ratio Lower Upper

75 100

110 8.7 17.0 50.9#

77 0.1 24.4 36.6#

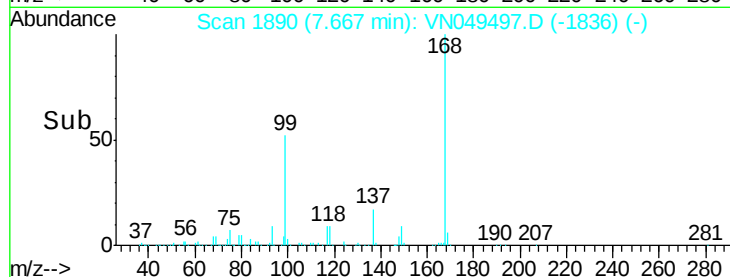


Abundance Ion 74.90 (74.60 to 75.60): VN049497.D (-1836) (-)

Ion 109.90 (109.60 to 110.60): VN049497.D (-1836) (-)

Ion 76.90 (76.60 to 77.60): VN049497.D (-1836) (-)

Time-->



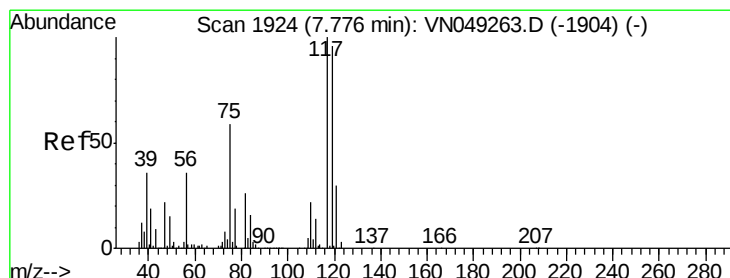
Abundance

Ion 74.90 (74.60 to 75.60): VN049497.D (-1836) (-)

Ion 109.90 (109.60 to 110.60): VN049497.D (-1836) (-)

Ion 76.90 (76.60 to 77.60): VN049497.D (-1836) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 5.02 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN049497.D

Acq: 22 Jun 2018 17:40

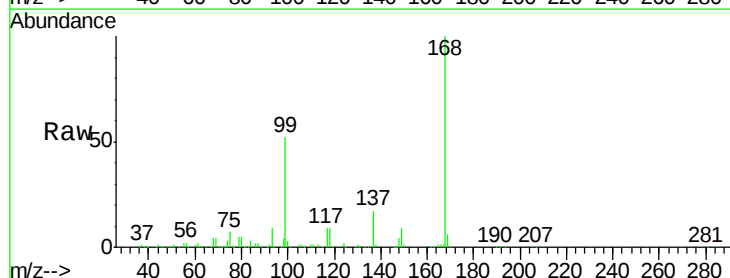
Tgt Ion: 117 Resp: 105764

Ion Ratio Lower Upper

117 100

119 5.3 75.6 113.4#

121 0.0 24.7 37.1#

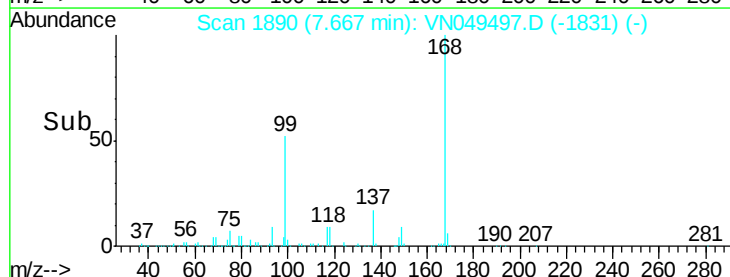


Abundance Ion 116.80 (116.50 to 117.50): VN049497.D (-1831) (-)

Ion 118.80 (118.50 to 119.50): VN049497.D (-1831) (-)

Ion 120.80 (120.50 to 121.50): VN049497.D (-1831) (-)

Time-->



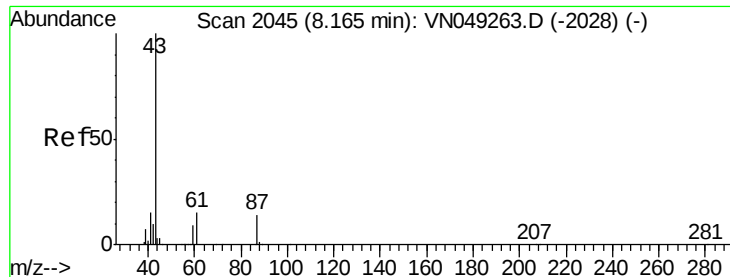
Abundance

Ion 116.80 (116.50 to 117.50): VN049497.D (-1831) (-)

Ion 118.80 (118.50 to 119.50): VN049497.D (-1831) (-)

Ion 120.80 (120.50 to 121.50): VN049497.D (-1831) (-)

Time-->

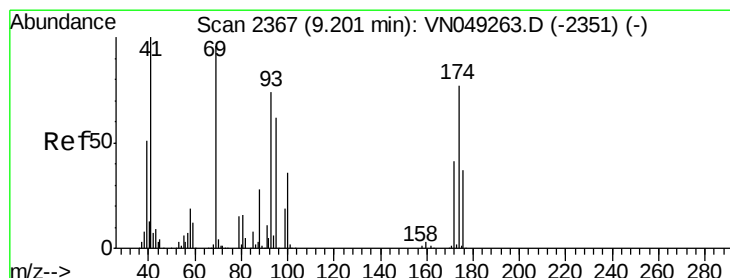
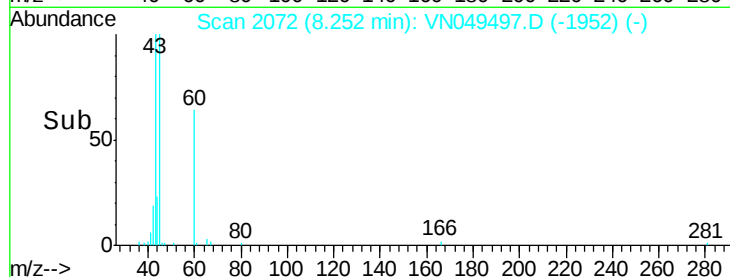
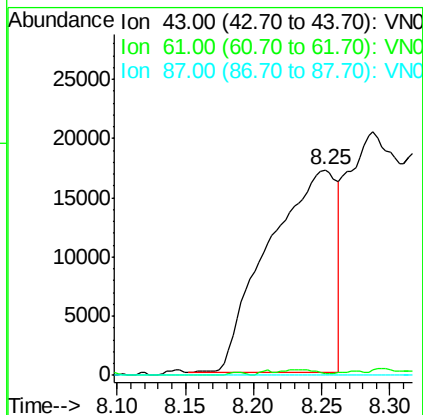
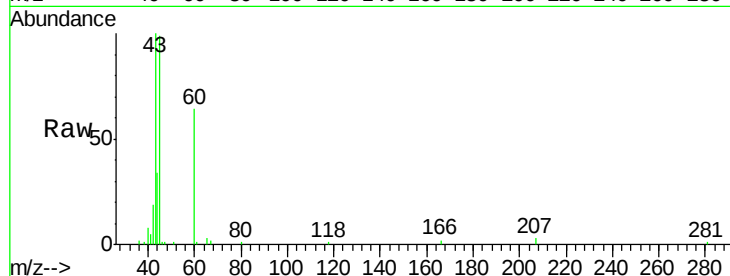


#43

Isopropyl Acetate
 Concen: 2.82 ug/l
 RT: 8.25 min Scan# 2072
 Delta R.T. 0.09 min
 Lab File: VN049497.D
 Acq: 22 Jun 2018 17:40

Instrument :
 MSVOA_N
 ClientSampled :

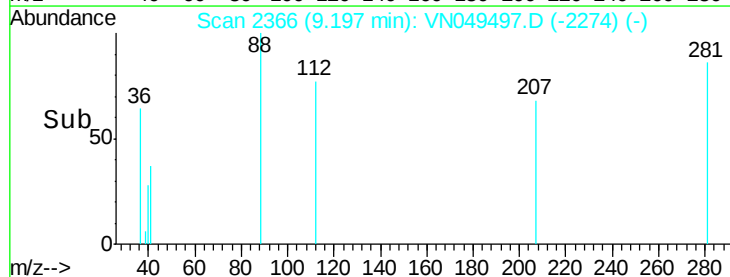
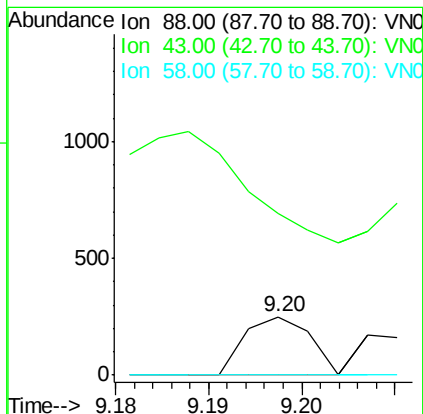
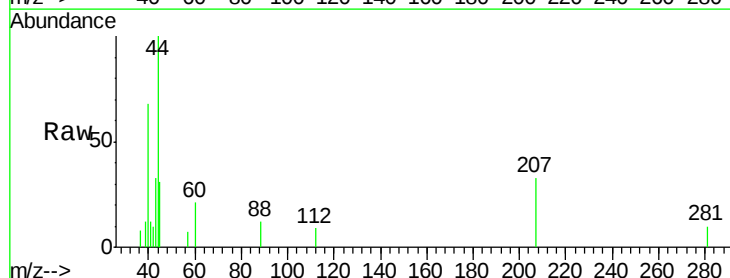
Tot Ion: 43 Resp: 59573
 Ion Ratio Lower Upper
 43 100
 61 0.0 14.2 21.4#
 87 0.0 9.4 14.0#

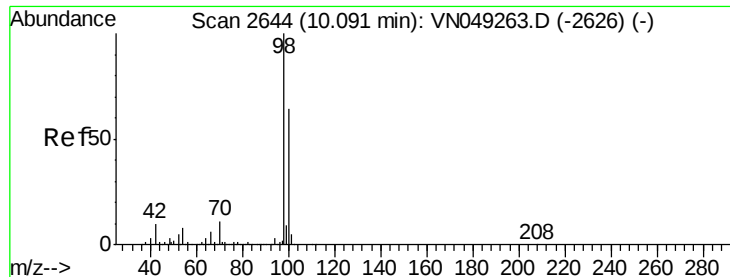


#49

1,4-Dioxane
 Concen: 0.89 ug/l
 RT: 9.20 min Scan# 2366
 Delta R.T. -0.00 min
 Lab File: VN049497.D
 Acq: 22 Jun 2018 17:40

Tgt Ion: 88 Resp: 123
 Ion Ratio Lower Upper
 88 100
 43 633.3 30.9 46.3#
 58 0.0 58.9 88.3#





#50

Toluene-d8

Concen: 45.03 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN049497.D

Acq: 22 Jun 2018 17:40

Instrument :

MSVOA_N

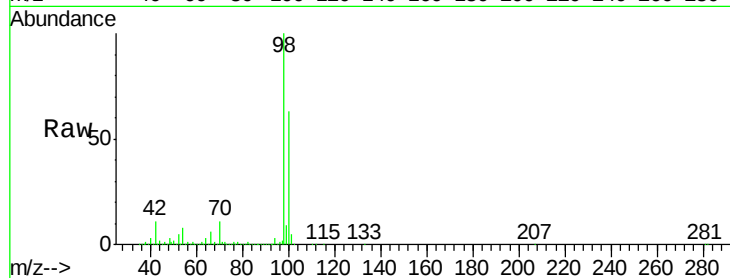
ClientSampled :

Tot Ion: 98 Resp: 2464563

Ion Ratio Lower Upper

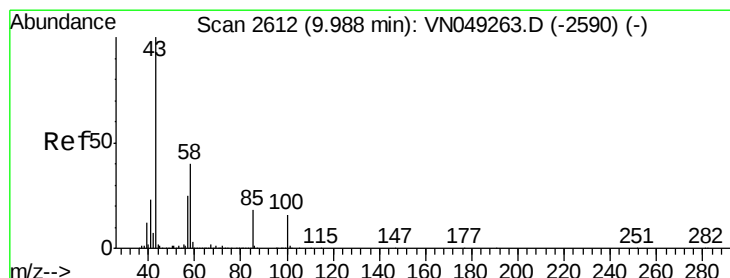
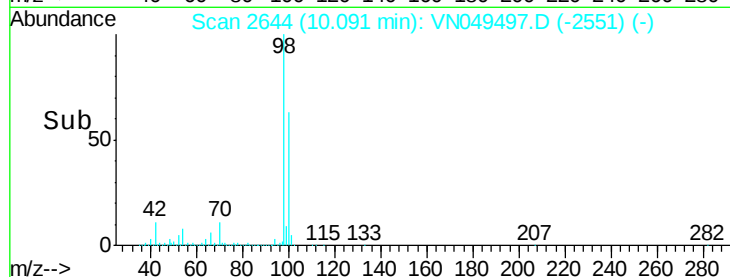
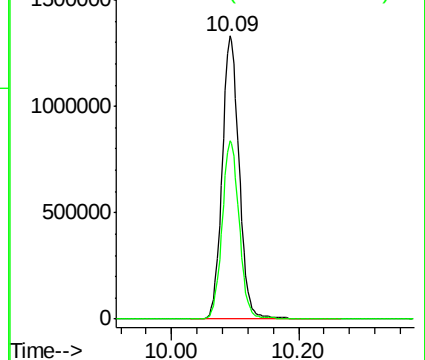
98 100

100 63.1 49.8 74.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 0.25 ug/l

RT: 9.99 min Scan# 2613

Delta R.T. 0.00 min

Lab File: VN049497.D

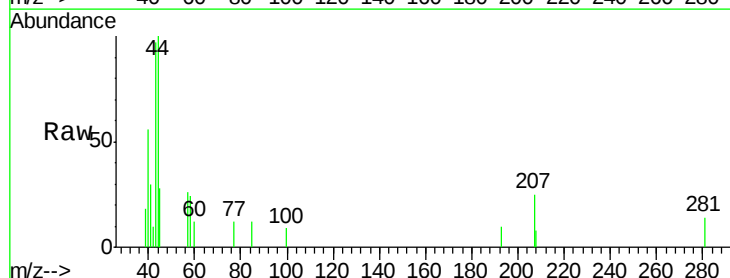
Acq: 22 Jun 2018 17:40

Tgt Ion: 43 Resp: 2773

Ion Ratio Lower Upper

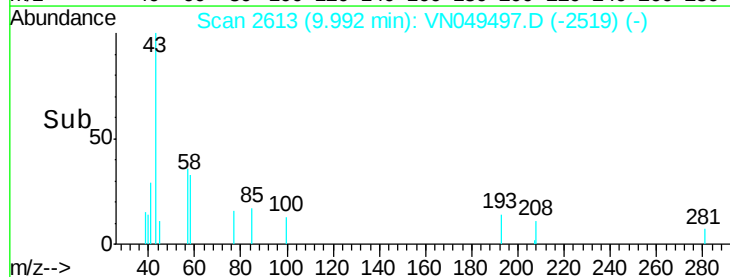
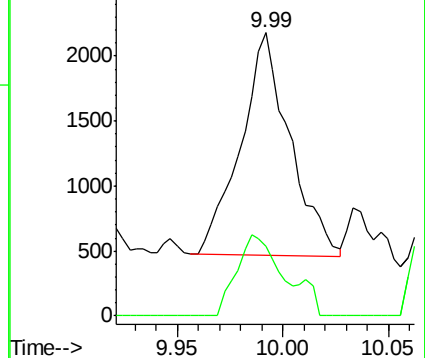
43 100

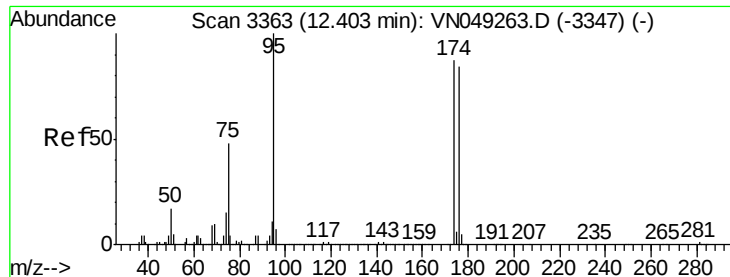
58 30.4 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 32.68 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049497.D

Acq: 22 Jun 2018 17:40

Instrument :

MSVOA_N

ClientSampleId :

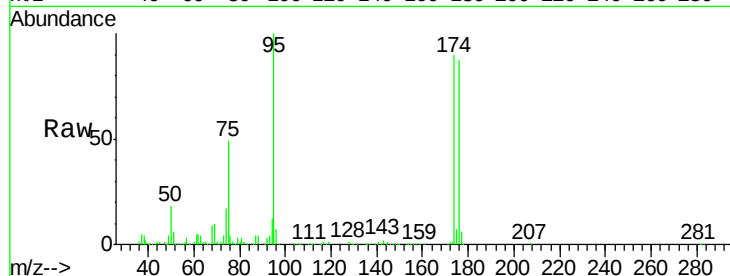
Tot Ion: 95 Resp: 591456

Ion Ratio Lower Upper

95 100

174 90.7 0.0 165.6

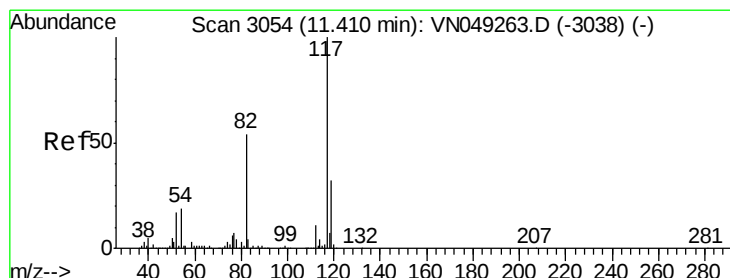
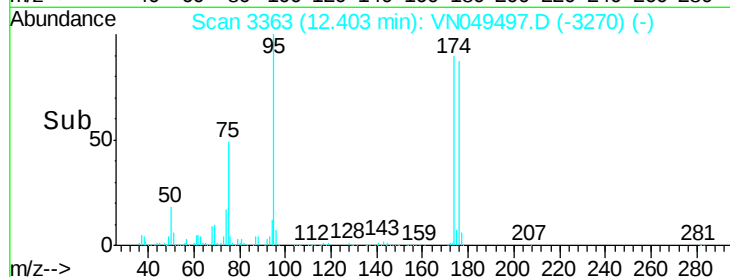
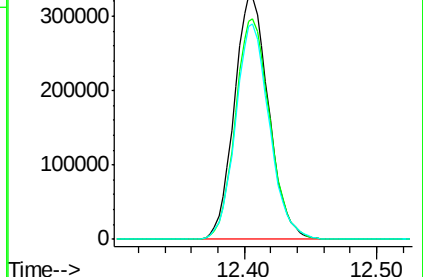
176 86.8 0.0 157.4



Abundance Ion 94.90 (94.60 to 95.60): VN049263.D (-3347) (-)

Ion 173.80 (173.50 to 174.50): VN049263.D (-3347) (-)

Ion 175.80 (175.50 to 176.50): VN049263.D (-3347) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN049497.D

Acq: 22 Jun 2018 17:40

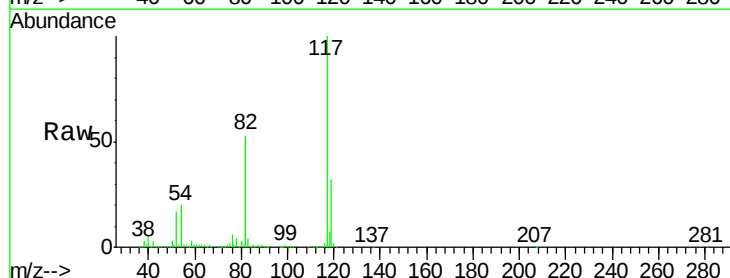
Tgt Ion: 117 Resp: 1485235

Ion Ratio Lower Upper

117 100

82 53.1 45.9 68.9

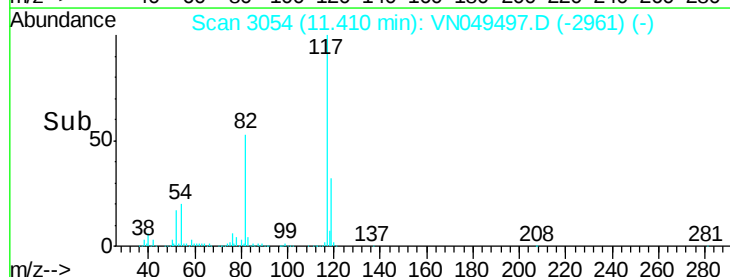
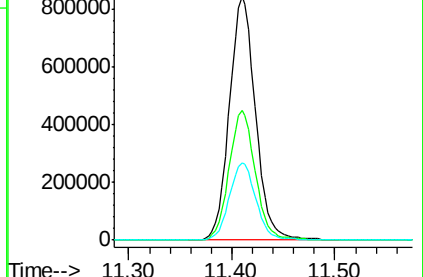
119 31.8 25.5 38.3

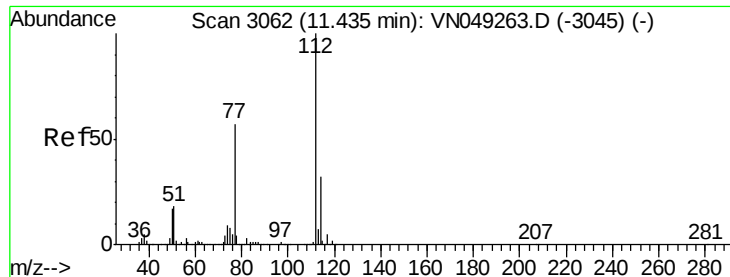


Abundance Ion 116.90 (116.60 to 117.60): VN049263.D (-3038) (-)

Ion 82.00 (81.70 to 82.70): VN049263.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN049263.D (-3038) (-)





#65

Chlorobenzene

Concen: 0.37 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN049497.D

Acq: 22 Jun 2018 17:40

Instrument :

MSVOA_N

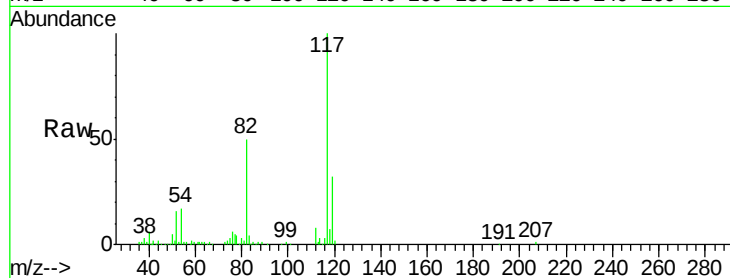
ClientSampled :

Tot Ion:112 Resp: 14234

Ion Ratio Lower Upper

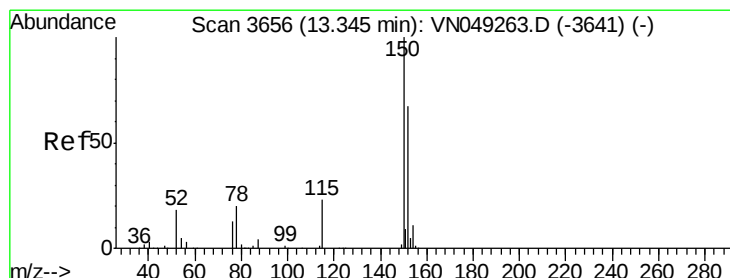
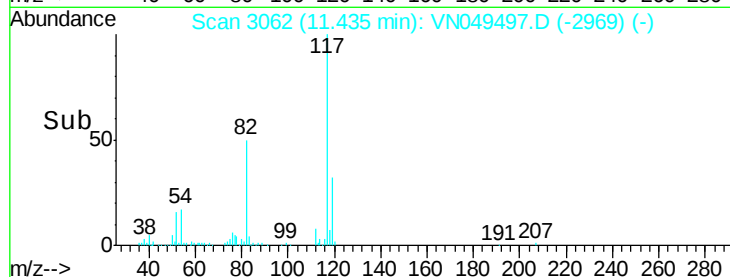
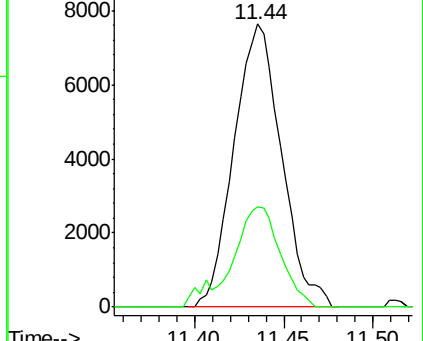
112 100

114 35.4 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: VN049497.D

Acq: 22 Jun 2018 17:40

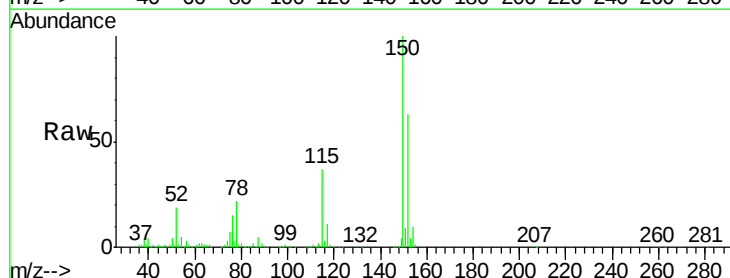
Tgt Ion:152 Resp: 382776

Ion Ratio Lower Upper

152 100

115 57.6 28.7 86.1

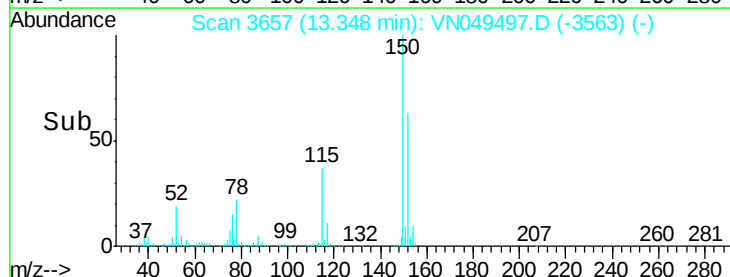
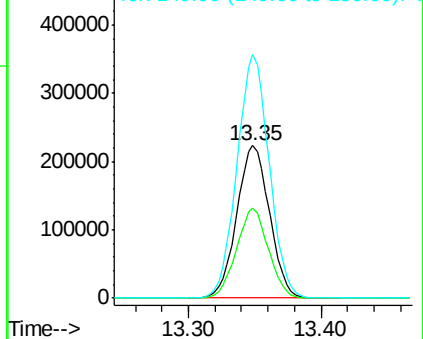
150 157.1 0.0 351.0

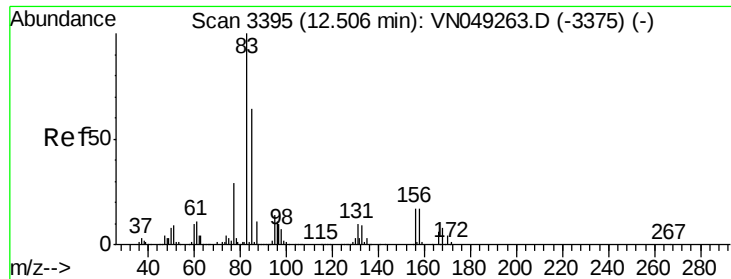


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3364

Delta R.T. -0.10 min

Lab File: VN049497.D

Acq: 22 Jun 2018 17:40

Instrument :

MSVOA_N

ClientSampled :

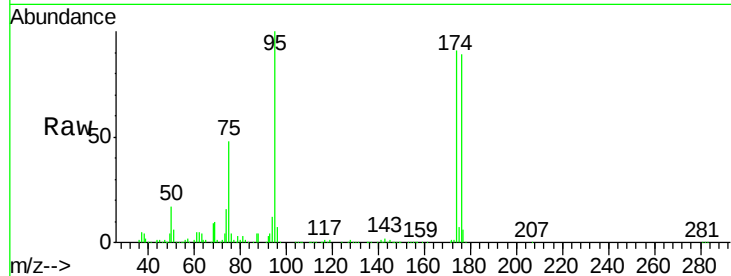
Tot Ion: 83 Resp: 654

Ion Ratio Lower Upper

83 100

131 99.7 5.0 15.0#

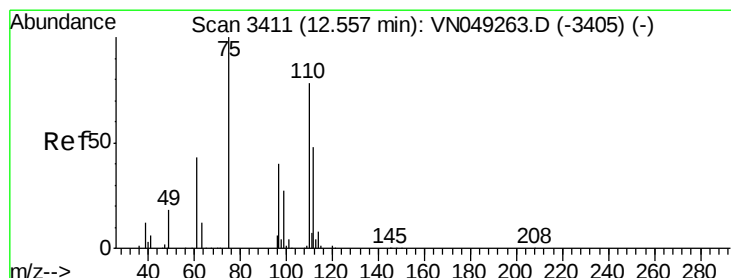
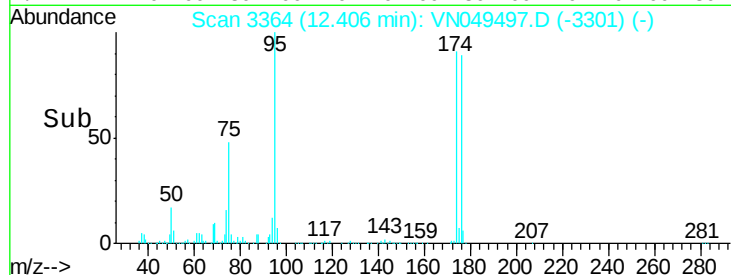
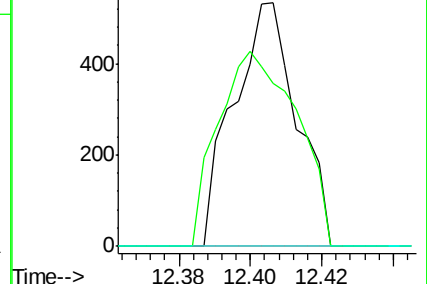
85 0.0 32.0 96.0#



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



#76

1,2,3-Trichloropropane

Concen: 44.41 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049497.D

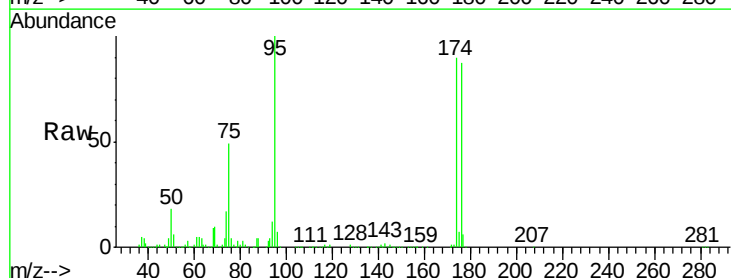
Acq: 22 Jun 2018 17:40

Tgt Ion: 75 Resp: 290075

Ion Ratio Lower Upper

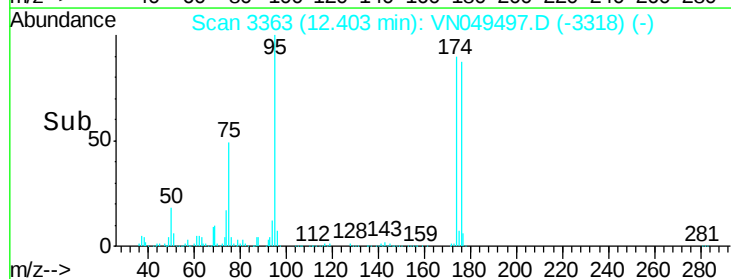
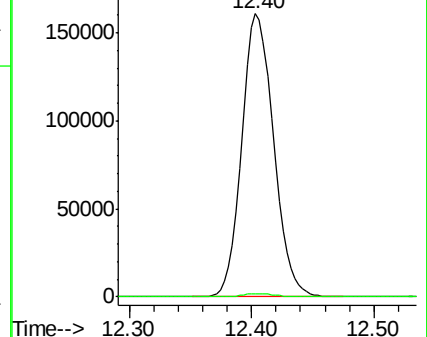
75 100

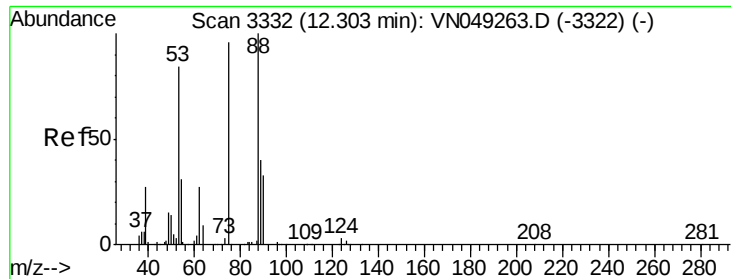
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 77.00 (76.70 to 77.70): VNC

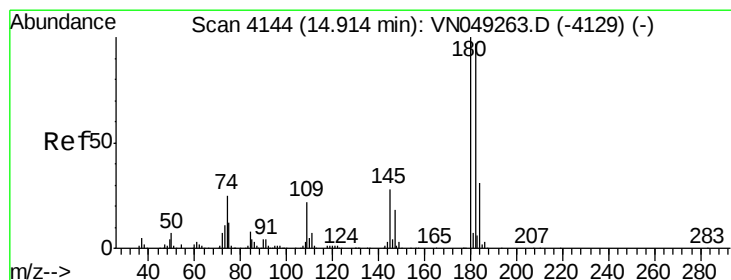
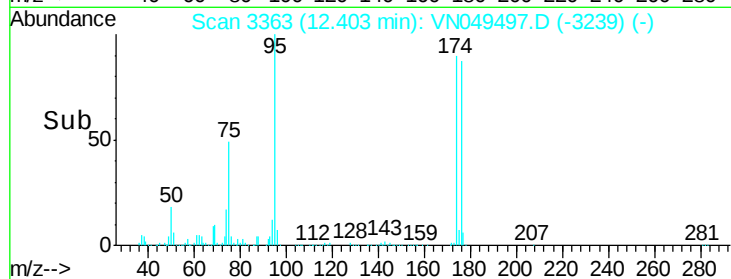
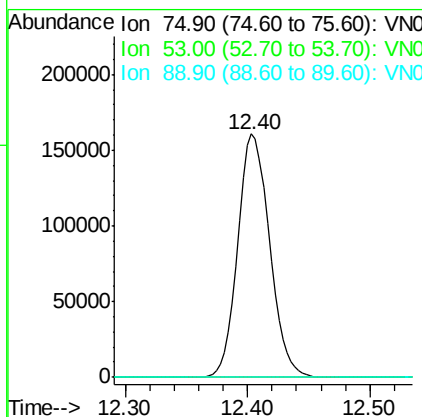
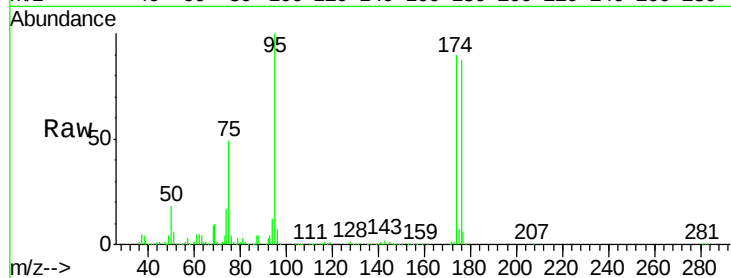




#81
trans-1,4-Dichloro-2-butene
Concen: 140.37 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.10 min
Lab File: VN049497.D
Acq: 22 Jun 2018 17:40

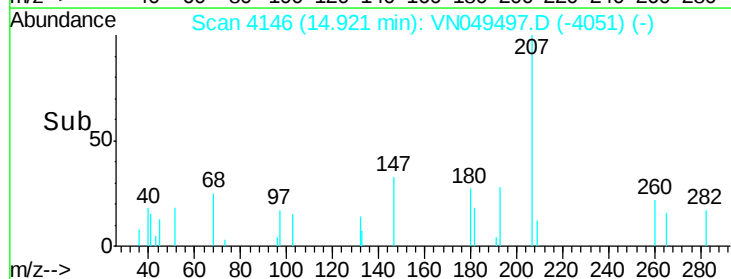
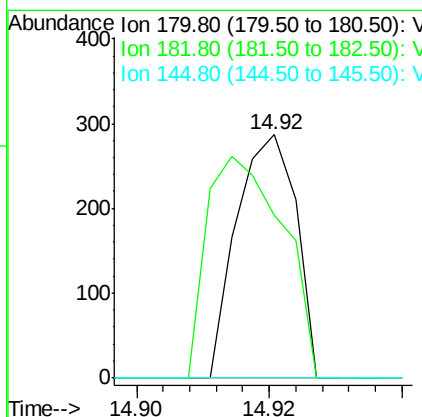
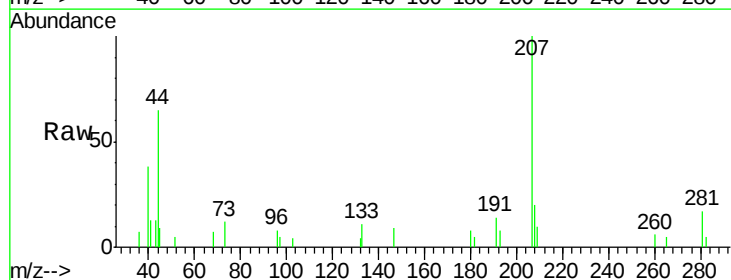
Instrument :
MSVOA_N
ClientSampled :

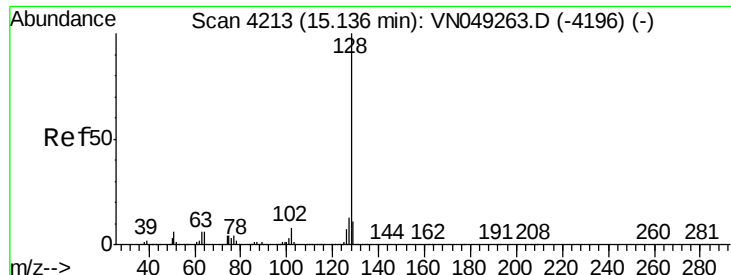
Tot Ion: 75 Resp: 290075
Ion Ratio Lower Upper
75 100
53 0.1 82.7 124.1#
89 0.0 36.5 54.7#



#93
1,2,4-Trichlorobenzene
Concen: 4.77 ug/l
RT: 14.92 min Scan# 4146
Delta R.T. 0.01 min
Lab File: VN049497.D
Acq: 22 Jun 2018 17:40

Tgt Ion:180 Resp: 178
Ion Ratio Lower Upper
180 100
182 116.9 46.9 140.8
145 0.0 14.7 44.1#





#95

Naphthalene

Concen: 2.12 ug/l

RT: 15.14 min Scan# 4215

Delta R.T. 0.01 min

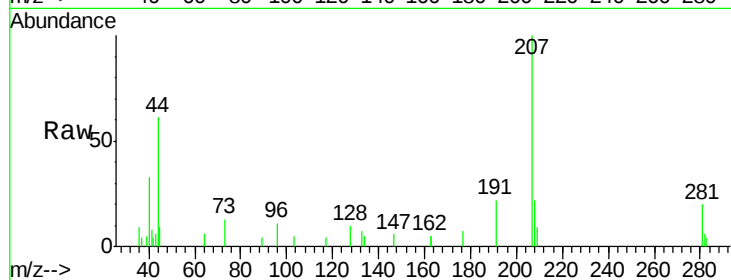
Lab File: VN049497.D

Acq: 22 Jun 2018 17:40

Instrument :

MSVOA_N

ClientSampleId :



Tot Ion:	128	Resp:	452
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	16.0#
129	0.0	8.5	12.7#

