

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062118\
 Data File : VN049467.D
 Acq On : 21 Jun 2018 14:35
 Operator : MD\SY
 Sample : PB110441ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 22 03:37:42 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	1153197	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1906190	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1550286	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	415919	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	807680	52.81	ug/l	0.00
Spiked Amount			Recovery	=	105.62%	
35) Dibromofluoromethane	7.59	113	720429	46.71	ug/l	0.00
Spiked Amount			Recovery	=	93.42%	
50) Toluene-d8	10.09	98	2550832	43.44	ug/l	0.00
Spiked Amount			Recovery	=	86.88%	
62) 4-Bromofluorobenzene	12.40	95	628875	32.39	ug/l	0.00
Spiked Amount			Recovery	=	64.78%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	2751	0.29	ug/l #	61
8) Diethyl Ether	3.41	74	4013	0.51	ug/l	93
16) Acetone	3.82	43	30857	8.31	ug/l #	87
18) Methyl Acetate	4.33	43	86891	7.67	ug/l	97
20) Methylene Chloride	4.55	84	47413	3.06	ug/l	89
25) 2-Butanone	6.86	43	4977	1.00	ug/l	97
29) Tetrahydrofuran	7.22	42	1066	0.33	ug/l #	65
31) Cyclohexane	7.66	56	21907	0.80	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	82638	3.78	ug/l #	51
37) Ethyl Acetate	6.86	43	4977	0.42	ug/l #	70
38) Carbon Tetrachloride	7.67	117	106594	4.71	ug/l #	17
43) Isopropyl Acetate	8.23	43	256957	11.32	ug/l #	64
49) 1,4-Dioxane	9.21	88	274	1.86	ug/l #	32
65) Chlorobenzene	11.43	112	15550	0.39	ug/l	92
71) Bromoform	12.41	173	5613	0.58	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.55	83	30	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	303666	42.79	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	303666	135.24	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.25	75	332	0.26	ug/l #	4
93) 1,2,4-Trichlorobenzene	14.91	180	64	4.75	ug/l #	13
95) Naphthalene	15.13	128	299	2.11	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN049467.D

Acq: 21 Jun 2018 14:35

Instrument :

MSVOA_N

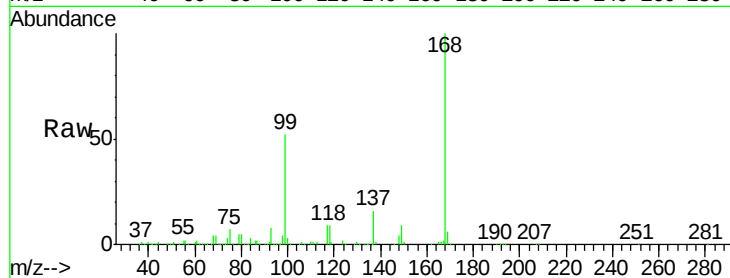
ClientSampleId :

Tot Ion:168 Resp: 1153197

Ion Ratio Lower Upper

168 100

99 51.8 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): VN049467.D (-1797) (-)

Ion 98.90 (98.60 to 99.60): VN049467.D (-1797) (-)

7.67

500000

400000

300000

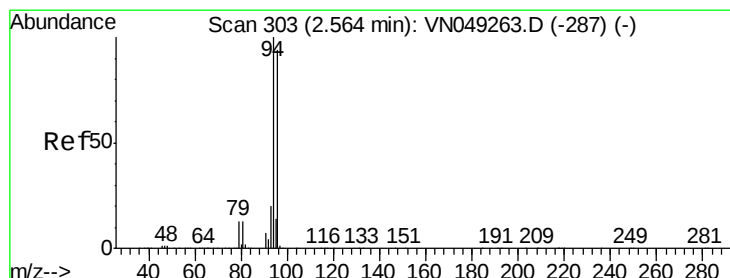
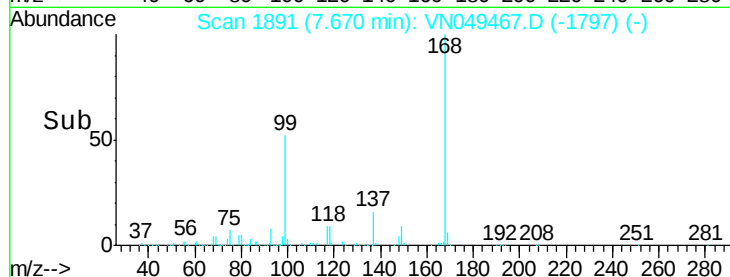
200000

100000

0

7.60 7.70 7.80

Time-->



#5

Bromomethane

Concen: 0.29 ug/l

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN049467.D

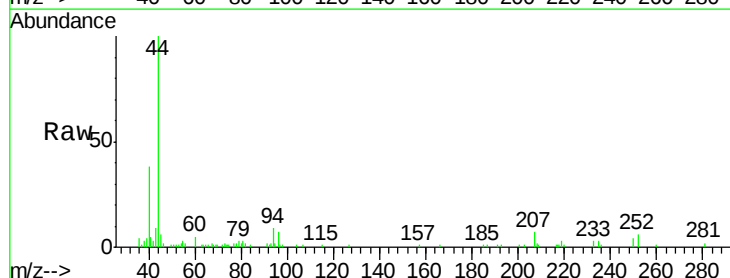
Acq: 21 Jun 2018 14:35

Tgt Ion: 94 Resp: 2751

Ion Ratio Lower Upper

94 100

96 54.2 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VN049467.D (-210) (-)

Ion 95.90 (95.60 to 96.60): VN049467.D (-210) (-)

2.57

2000

1500

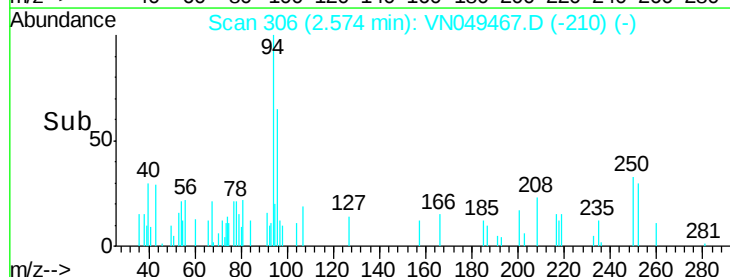
1000

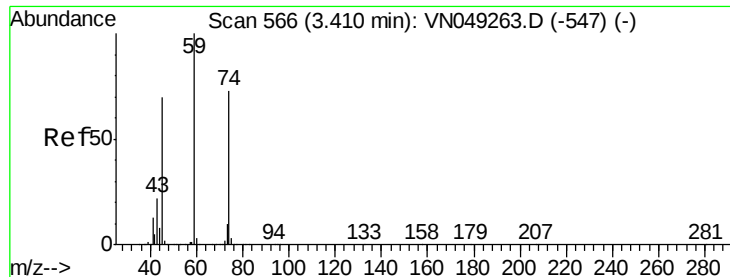
500

0

2.55 2.60

Time-->





#8

Diethyl Ether

Concen: 0.51 ug/l

RT: 3.41 min Scan# 567

Delta R.T. 0.00 min

Lab File: VN049467.D

Acq: 21 Jun 2018 14:35

Instrument :

MSVOA_N

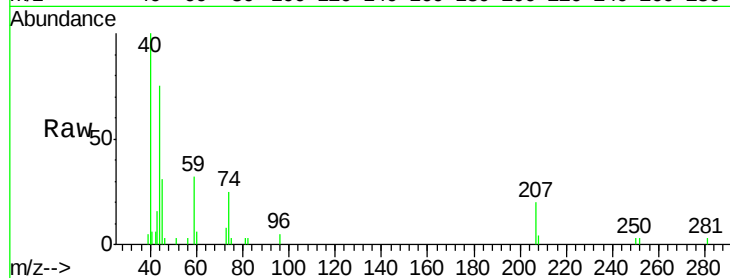
ClientSampleId :

Tot Ion: 74 Resp: 4013

Ion Ratio Lower Upper

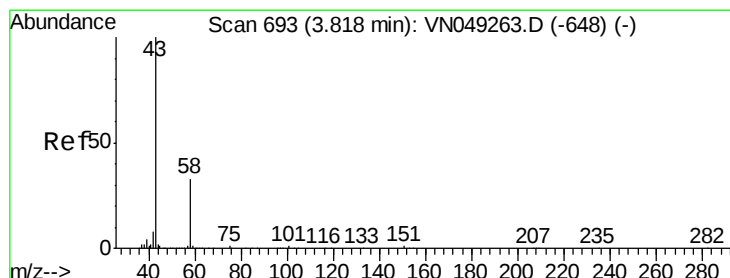
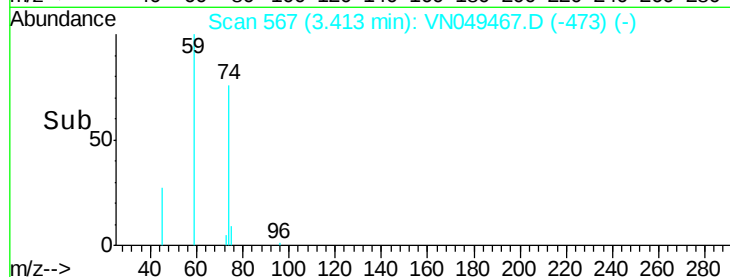
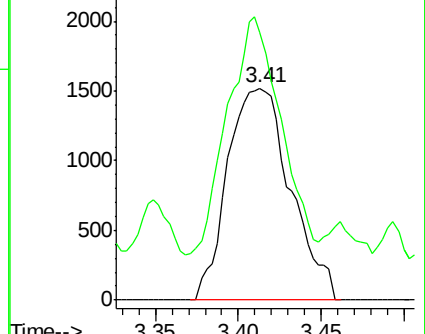
74 100

45 97.0 51.9 155.8



Abundance Ion 74.00 (73.70 to 74.70): VN0

Ion 45.00 (44.70 to 45.70): VN0



#16

Acetone

Concen: 8.31 ug/l

RT: 3.82 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN049467.D

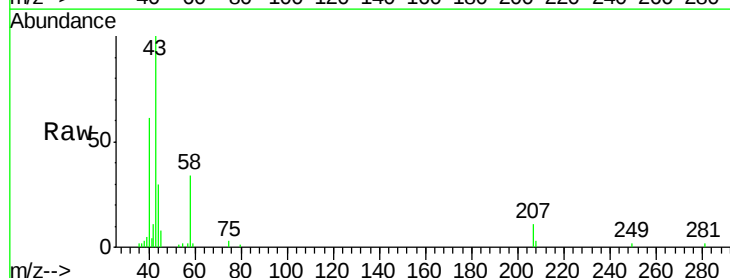
Acq: 21 Jun 2018 14:35

Tgt Ion: 43 Resp: 30857

Ion Ratio Lower Upper

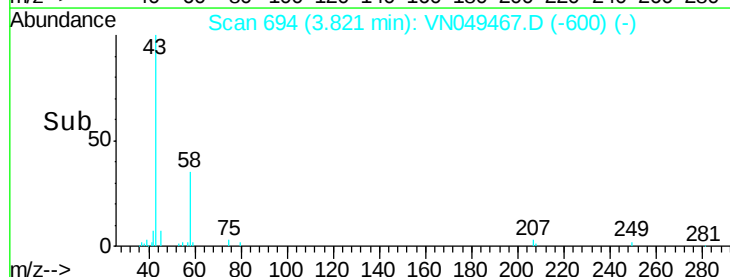
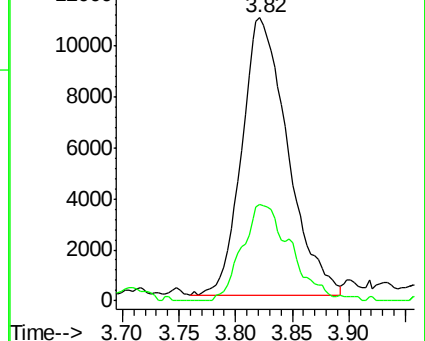
43 100

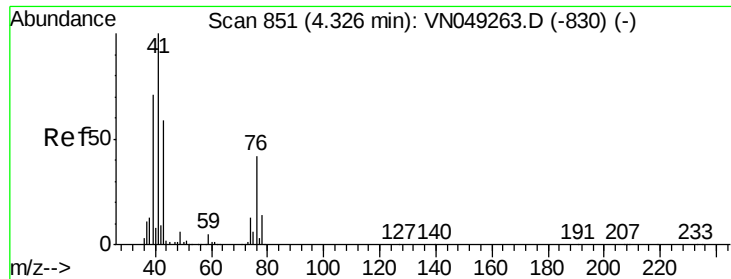
58 34.7 22.4 33.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

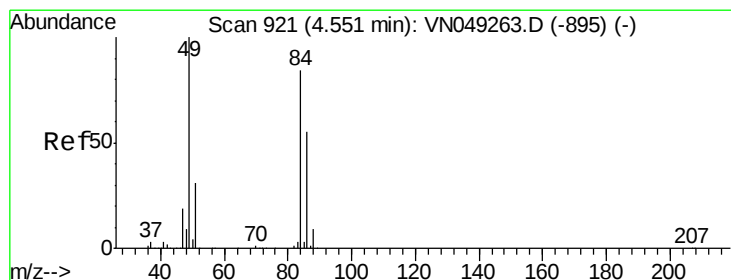
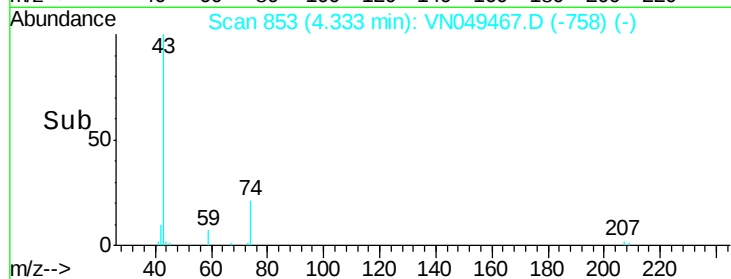
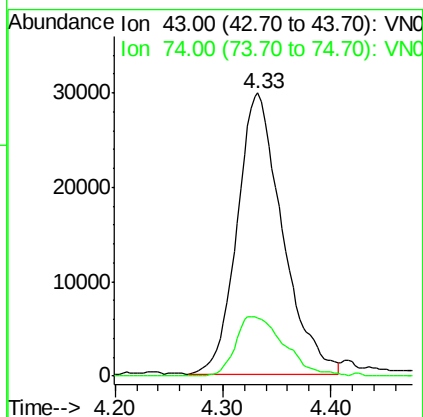
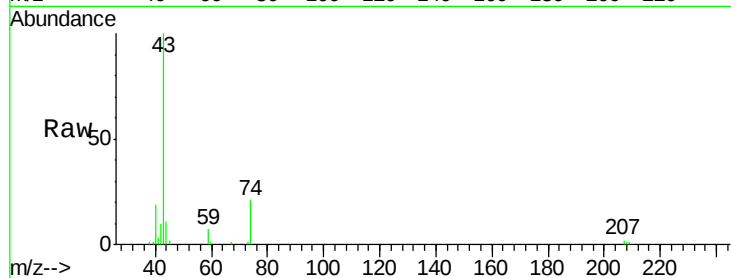




#18
Methvl Acetate
Concen: 7.67 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.01 min
Lab File: VN049467.D
Acq: 21 Jun 2018 14:35

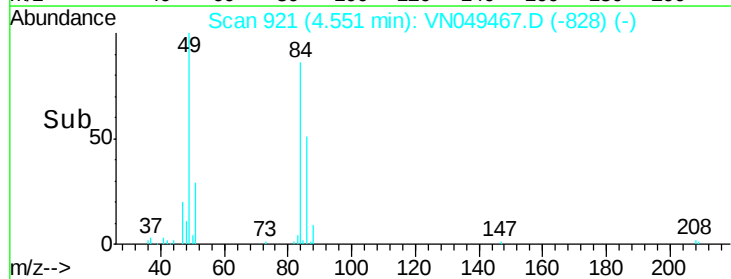
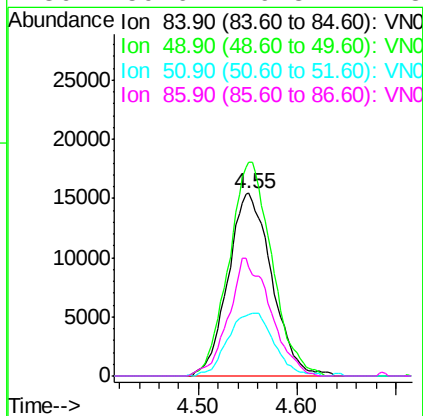
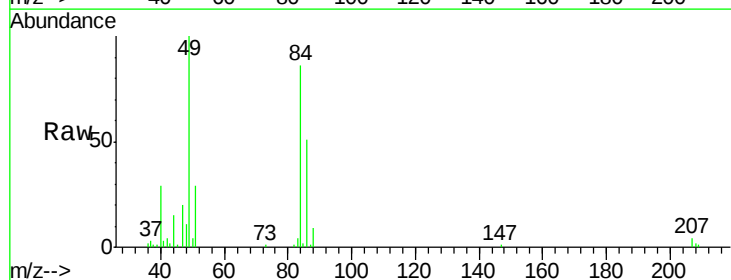
Instrument :
MSVOA_N
ClientSampleId :

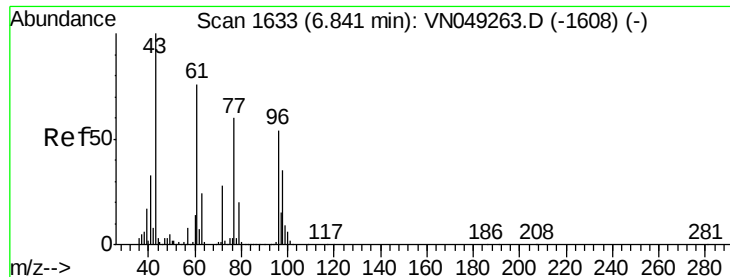
Tot Ion: 43 Resp: 86891
Ion Ratio Lower Upper
43 100
74 22.9 17.4 26.0



#20
Methylene Chloride
Concen: 3.06 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN049467.D
Acq: 21 Jun 2018 14:35

Tgt Ion: 84 Resp: 47413
Ion Ratio Lower Upper
84 100
49 117.0 106.9 160.3
51 32.9 32.7 49.1
86 59.6 49.8 74.8





#25

2-Butanone

Concen: 1.00 ug/l

RT: 6.86 min Scan# 1639

Delta R.T. 0.02 min

Lab File: VN049467.D

Acq: 21 Jun 2018 14:35

Instrument :

MSVOA_N

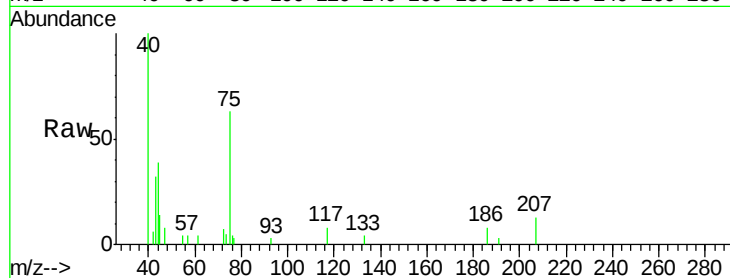
ClientSampled :

Tot Ion: 43 Resp: 4977

Ion Ratio Lower Upper

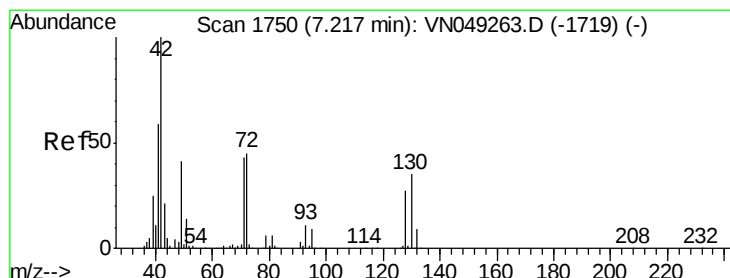
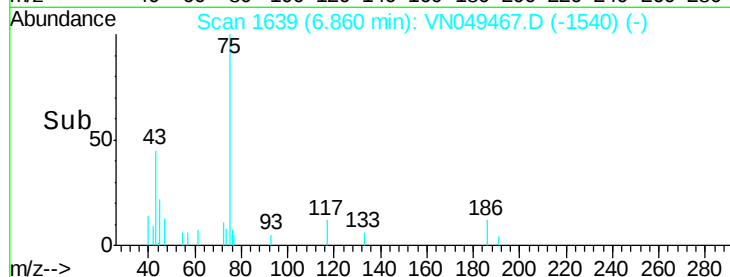
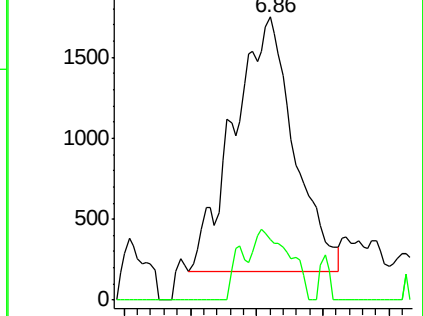
43 100

72 23.9 20.2 30.2



Abundance Ion 43.00 (42.70 to 43.70): VN049467.D (-1639) (-)

Ion 72.00 (71.70 to 72.70): VN049467.D (-1639) (-)



#29

Tetrahydrofuran

Concen: 0.33 ug/l

RT: 7.22 min Scan# 1751

Delta R.T. 0.00 min

Lab File: VN049467.D

Acq: 21 Jun 2018 14:35

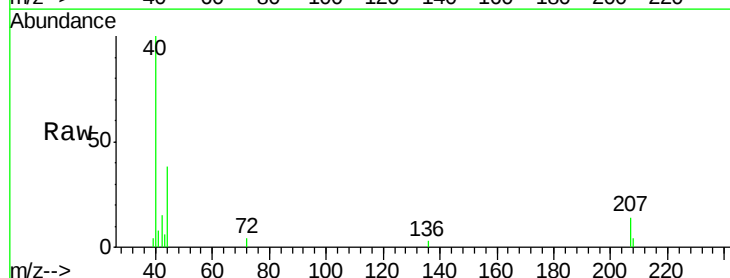
Tgt Ion: 42 Resp: 1066

Ion Ratio Lower Upper

42 100

72 14.6 32.2 48.4#

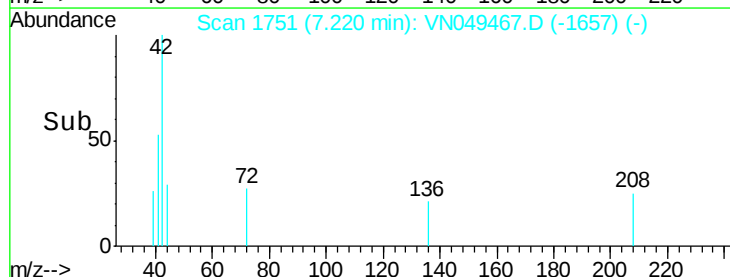
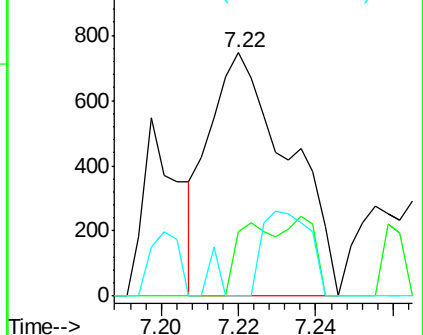
71 21.0 30.5 45.7#

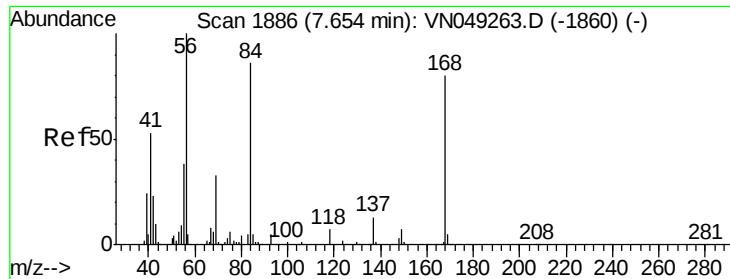


Abundance Ion 42.00 (41.70 to 42.70): VN049467.D (-1751) (-)

Ion 72.00 (71.70 to 72.70): VN049467.D (-1751) (-)

Ion 71.00 (70.70 to 71.70): VN049467.D (-1751) (-)

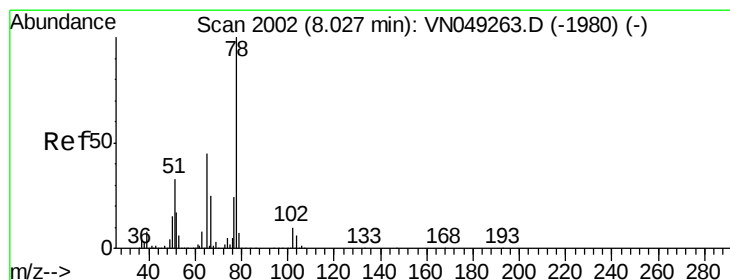
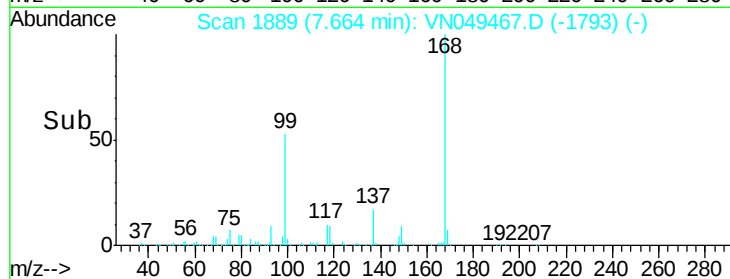
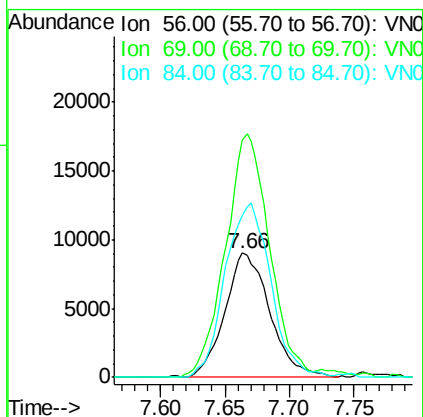
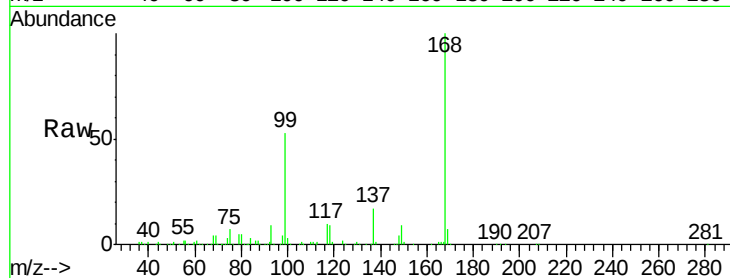




#31
Cyclohexane
Concen: 0.80 ug/l
RT: 7.66 min Scan# 1889
Delta R.T. 0.01 min
Lab File: VN049467.D
Acq: 21 Jun 2018 14:35

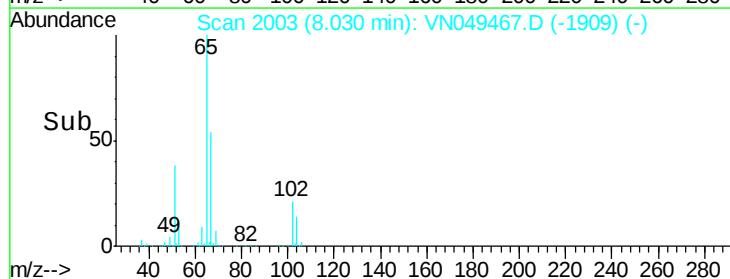
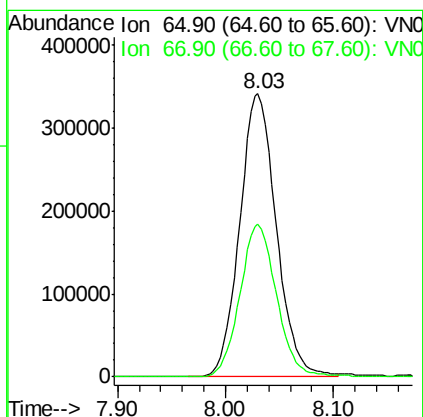
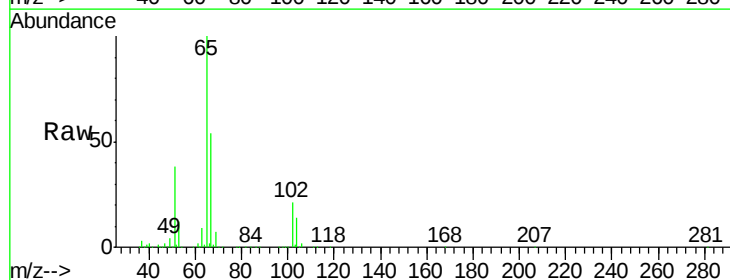
Instrument :
MSVOA_N
ClientSampled :

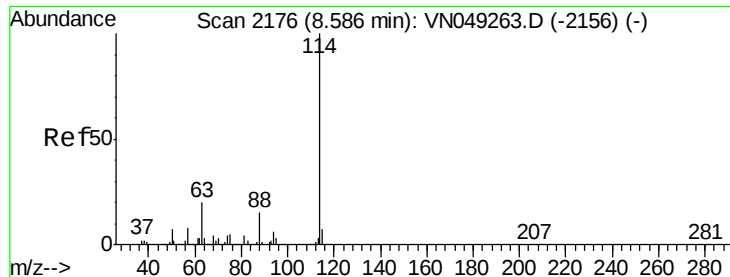
Tot Ion: 56 Resp: 21907
Ion Ratio Lower Upper
56 100
69 186.5 25.0 37.4#
84 129.5 64.6 96.8#



#33
1,2-Dichloroethane-d4
Concen: 52.81 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049467.D
Acq: 21 Jun 2018 14:35

Tgt Ion: 65 Resp: 807680
Ion Ratio Lower Upper
65 100
67 54.1 0.0 103.8

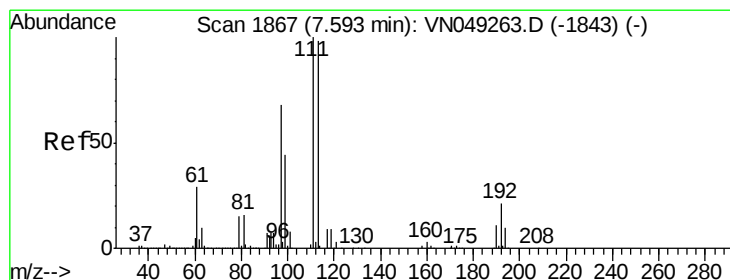
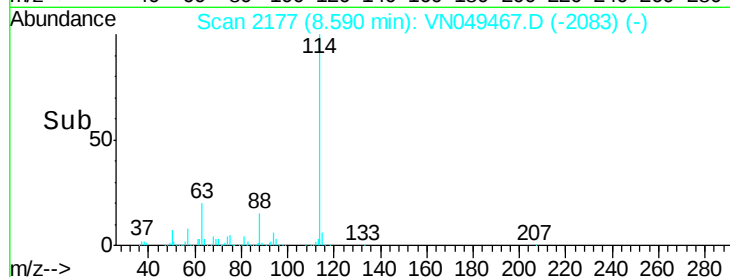
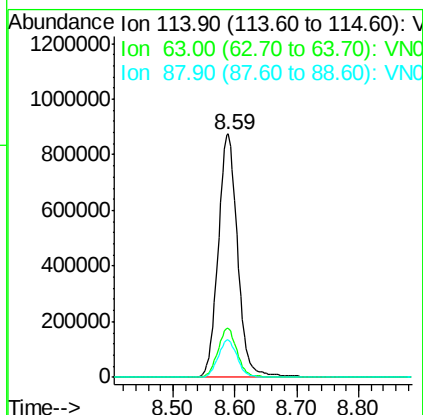
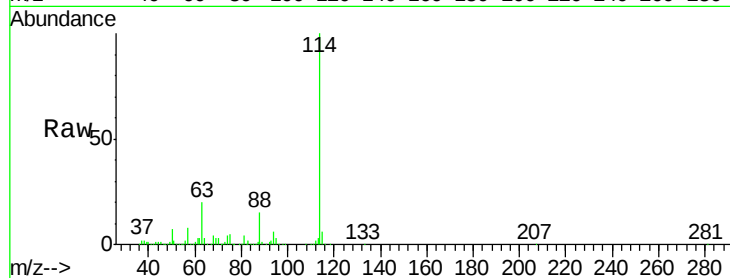




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN049467.D
 Acq: 21 Jun 2018 14:35

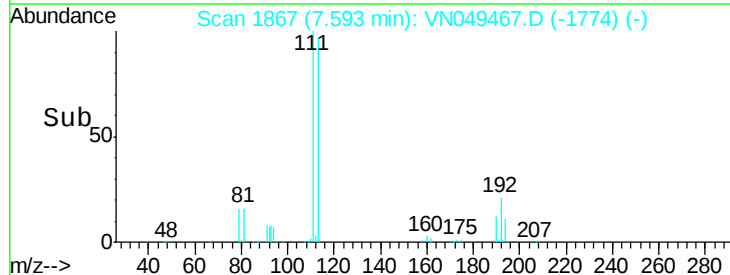
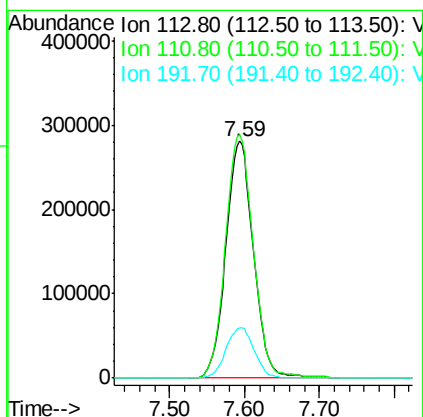
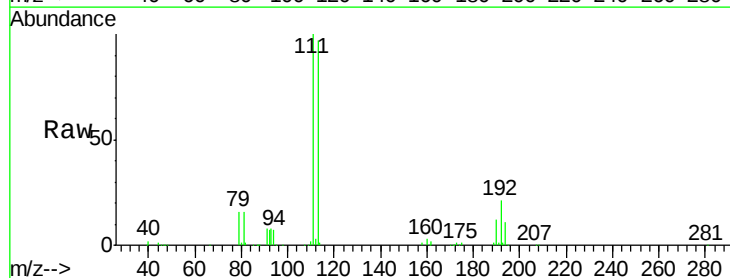
Instrument :
 MSVOA_N
 ClientSampled :

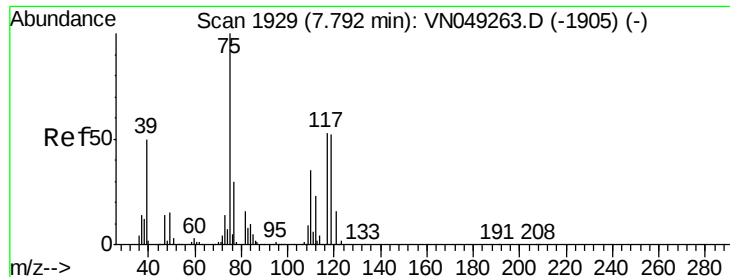
Tot Ion:114 Resp: 1906190
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 44.4
 88 15.4 0.0 31.4



#35
 Dibromofluoromethane
 Concen: 46.71 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049467.D
 Acq: 21 Jun 2018 14:35

Tgt Ion:113 Resp: 720429
 Ion Ratio Lower Upper
 113 100
 111 103.8 82.4 123.6
 192 21.8 15.0 22.6





#36

1,1-Dichloropropene

Concen: 3.78 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.12 min

Lab File: VN049467.D

Acq: 21 Jun 2018 14:35

Instrument :
MSVOA_N
ClientSampleId :

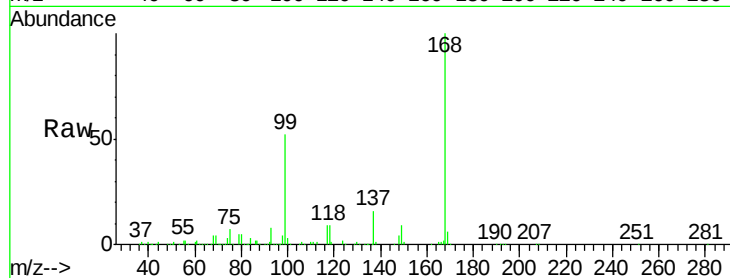
Tot Ion: 75 Resp: 82638

Ion Ratio Lower Upper

75 100

110 9.3 17.0 50.9#

77 0.0 24.4 36.6#

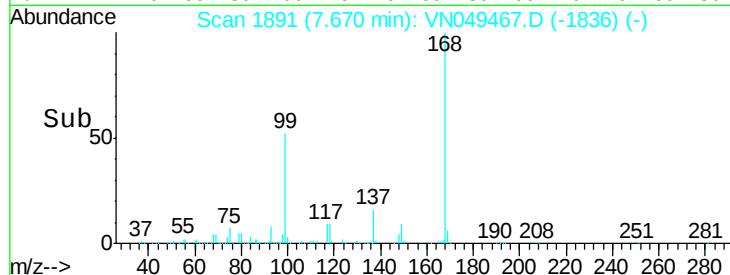


Abundance Ion 74.90 (74.60 to 75.60): VN049467.D (-1836) (-)

Ion 109.90 (109.60 to 110.60): VN049467.D (-1836) (-)

Ion 76.90 (76.60 to 77.60): VN049467.D (-1836) (-)

Time-->

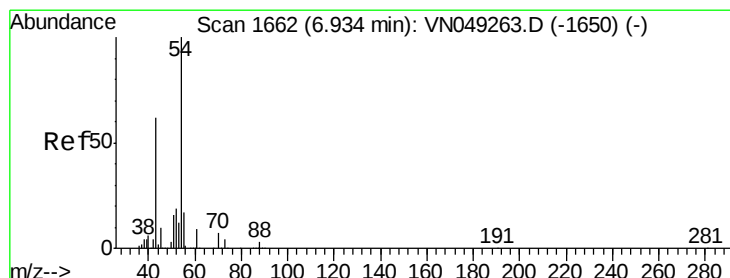


Abundance Ion 74.90 (74.60 to 75.60): VN049467.D (-1836) (-)

Ion 109.90 (109.60 to 110.60): VN049467.D (-1836) (-)

Ion 76.90 (76.60 to 77.60): VN049467.D (-1836) (-)

Time-->



#37

Ethyl Acetate

Concen: 0.42 ug/l

RT: 6.86 min Scan# 1639

Delta R.T. -0.07 min

Lab File: VN049467.D

Acq: 21 Jun 2018 14:35

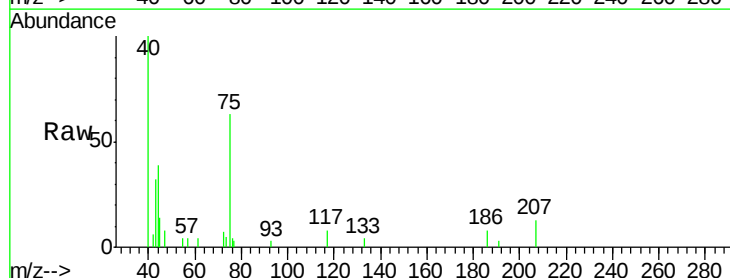
Tgt Ion: 43 Resp: 4977

Ion Ratio Lower Upper

43 100

61 0.0 11.0 16.4#

70 0.0 7.2 10.8#

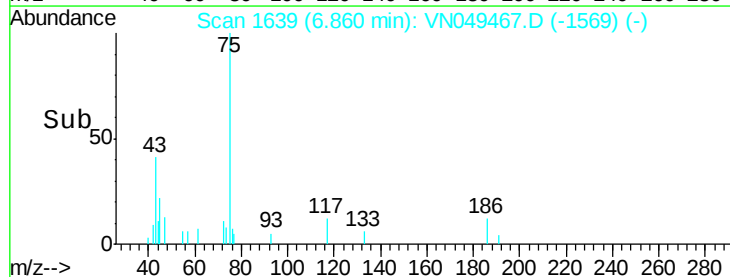


Abundance Ion 43.00 (42.70 to 43.70): VN049467.D (-1569) (-)

Ion 60.90 (60.60 to 61.60): VN049467.D (-1569) (-)

Ion 70.00 (69.70 to 70.70): VN049467.D (-1569) (-)

Time-->

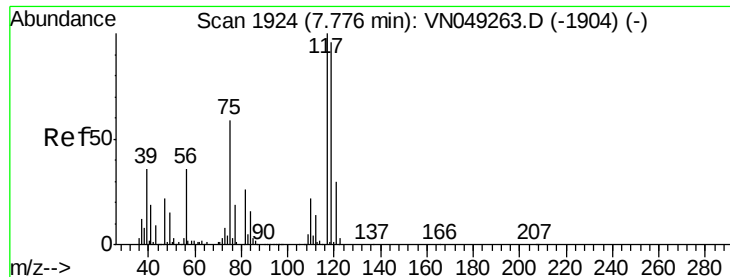


Abundance Ion 43.00 (42.70 to 43.70): VN049467.D (-1569) (-)

Ion 60.90 (60.60 to 61.60): VN049467.D (-1569) (-)

Ion 70.00 (69.70 to 70.70): VN049467.D (-1569) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 4.71 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.11 min

Lab File: VN049467.D

Acq: 21 Jun 2018 14:35

Instrument :

MSVOA_N

ClientSampleId :

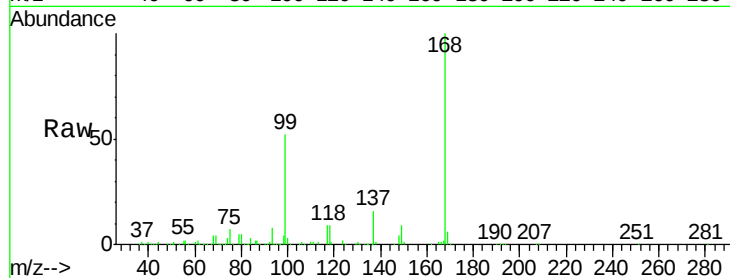
Tot Ion:117 Resp: 106594

Ion Ratio Lower Upper

117 100

119 5.7 75.6 113.4#

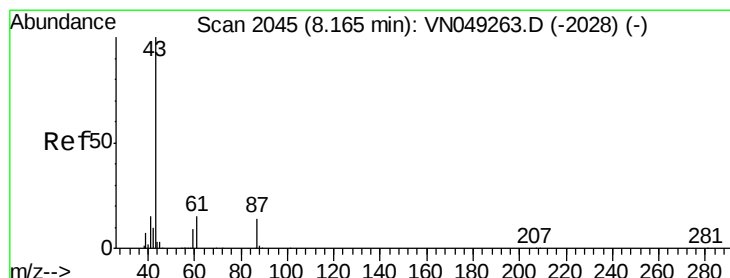
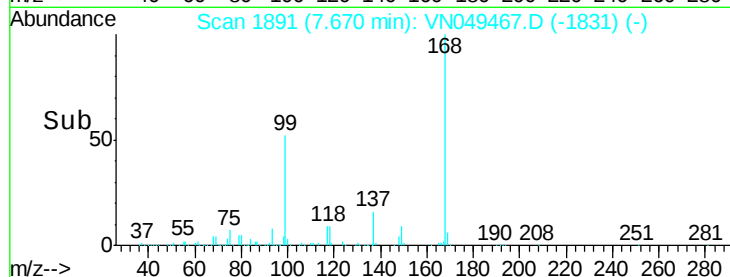
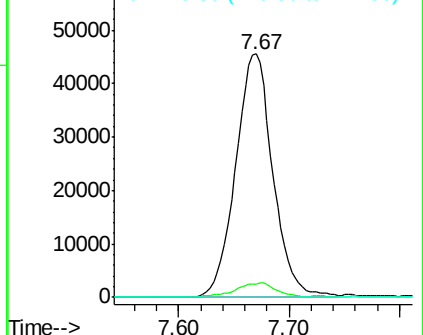
121 0.0 24.7 37.1#



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: 11.32 ug/l

RT: 8.23 min Scan# 2064

Delta R.T. 0.06 min

Lab File: VN049467.D

Acq: 21 Jun 2018 14:35

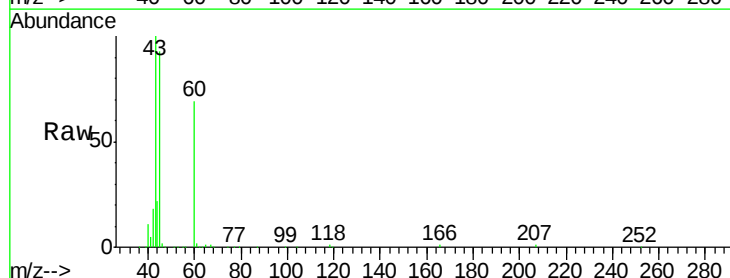
Tgt Ion: 43 Resp: 256957

Ion Ratio Lower Upper

43 100

61 0.2 14.2 21.4#

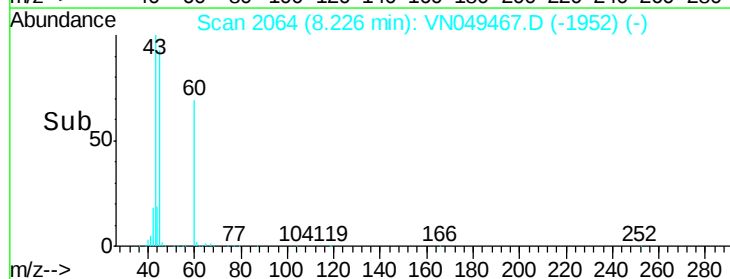
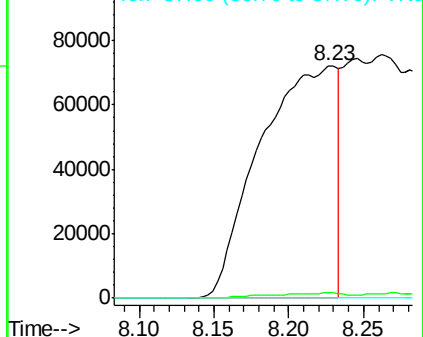
87 0.0 9.4 14.0#

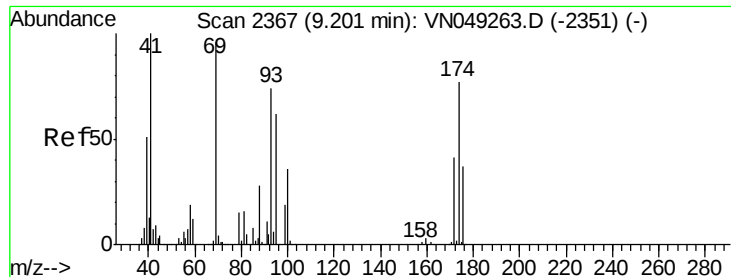


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

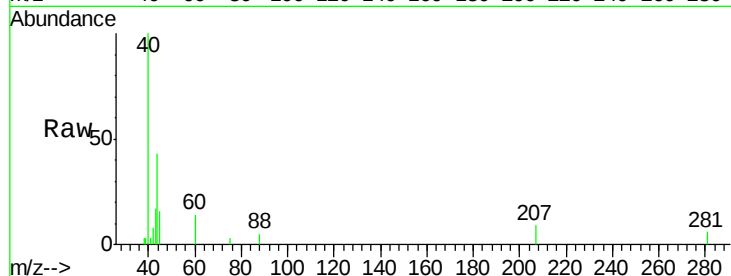




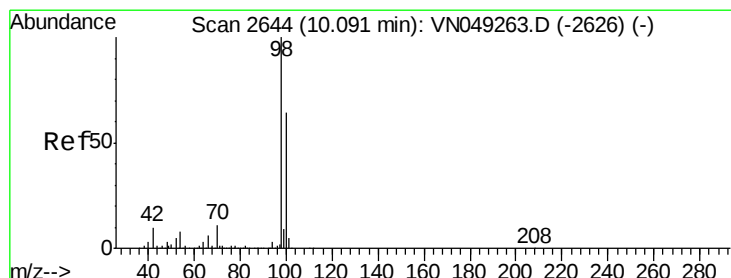
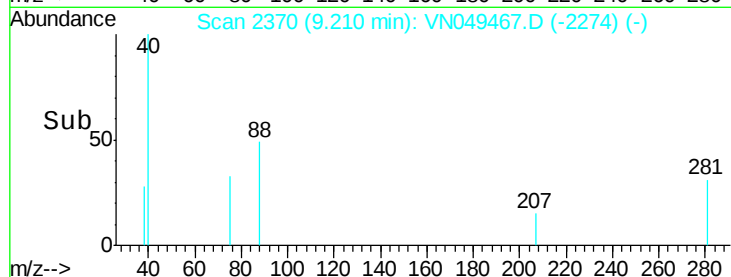
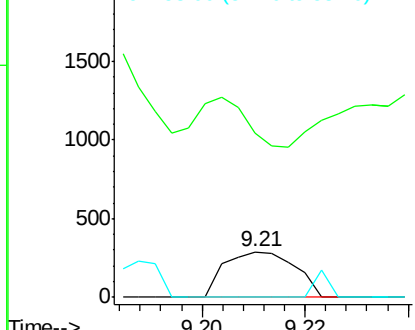
#49
1,4-Dioxane
Concen: 1.86 ug/l
RT: 9.21 min Scan# 2370
Delta R.T. 0.01 min
Lab File: VN049467.D
Acq: 21 Jun 2018 14:35

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 88 Resp: 274
Ion Ratio Lower Upper
88 100
43 73.7 30.9 46.3#
58 12.4 58.9 88.3#

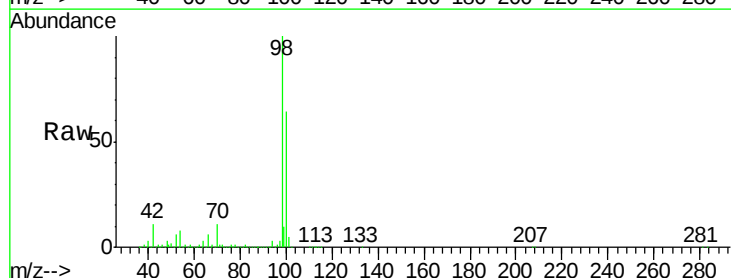


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

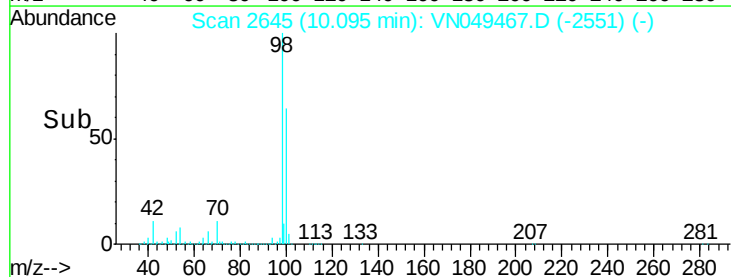
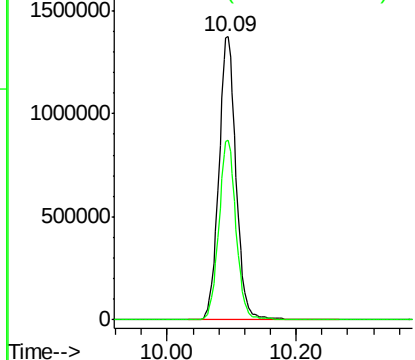


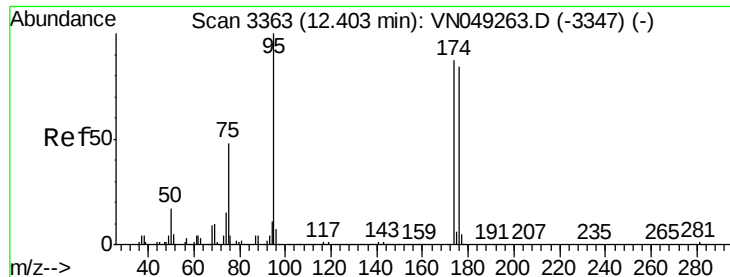
#50
Toluene-d8
Concen: 43.44 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN049467.D
Acq: 21 Jun 2018 14:35

Tgt Ion: 98 Resp: 2550832
Ion Ratio Lower Upper
98 100
100 63.5 49.8 74.8



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





#62

4-Bromofluorobenzene

Concen: 32.39 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049467.D

Acq: 21 Jun 2018 14:35

Instrument :

MSVOA_N

ClientSampleId :

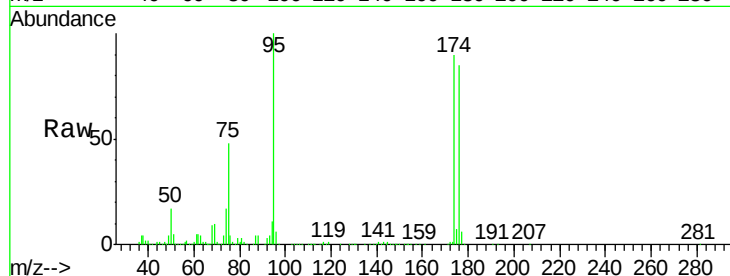
Tot Ion: 95 Resp: 628875

Ion Ratio Lower Upper

95 100

174 90.7 0.0 165.6

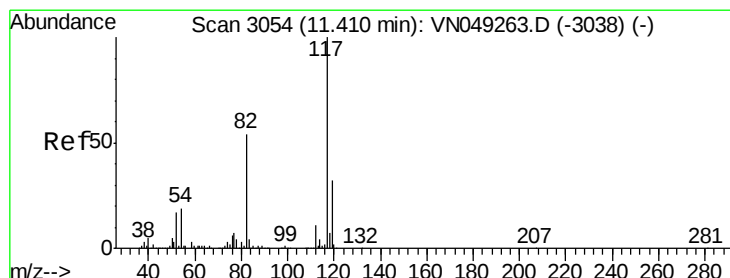
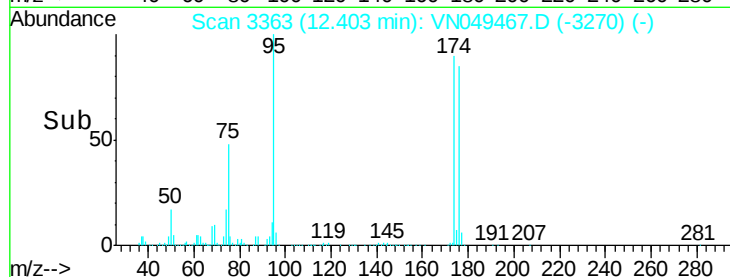
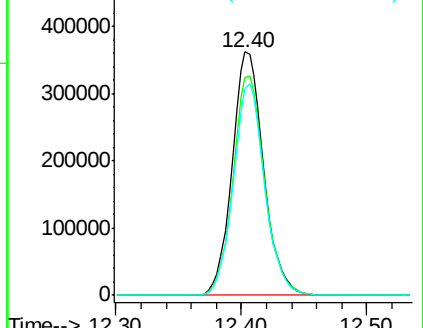
176 86.4 0.0 157.4



Abundance Ion 94.90 (94.60 to 95.60): VN049467.D (-3270) (-)

Ion 173.80 (173.50 to 174.50): VN049467.D (-3270) (-)

Ion 175.80 (175.50 to 176.50): VN049467.D (-3270) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN049467.D

Acq: 21 Jun 2018 14:35

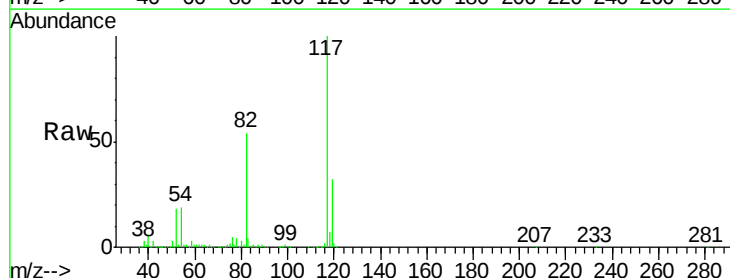
Tgt Ion: 117 Resp: 1550286

Ion Ratio Lower Upper

117 100

82 54.2 45.9 68.9

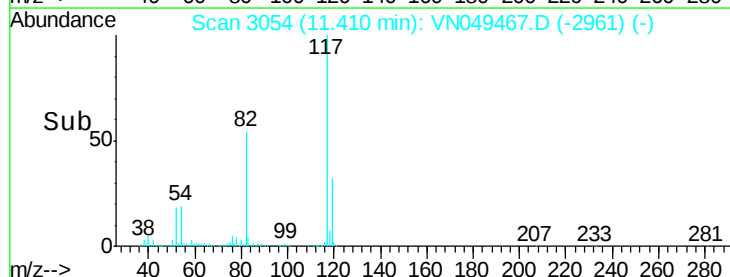
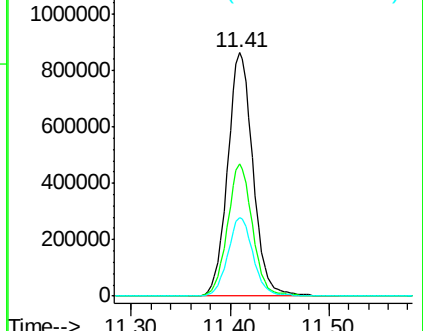
119 32.2 25.5 38.3

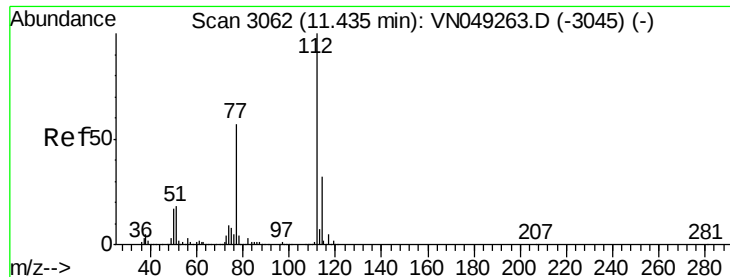


Abundance Ion 116.90 (116.60 to 117.60): VN049467.D (-2961) (-)

Ion 82.00 (81.70 to 82.70): VN049467.D (-2961) (-)

Ion 118.90 (118.60 to 119.60): VN049467.D (-2961) (-)





#65

Chlorobenzene

Concen: 0.39 ug/l

RT: 11.43 min Scan# 3061

Delta R.T. -0.00 min

Lab File: VN049467.D

Acq: 21 Jun 2018 14:35

Instrument :

MSVOA_N

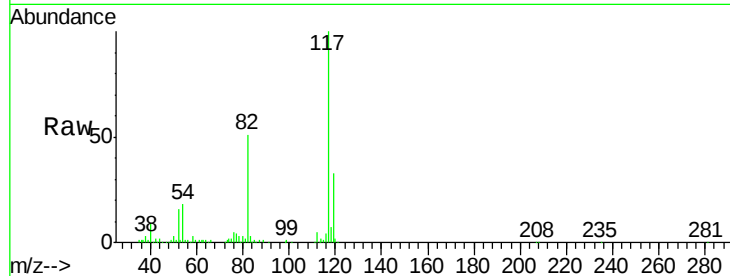
ClientSampled :

Tot Ion:112 Resp: 15550

Ion Ratio Lower Upper

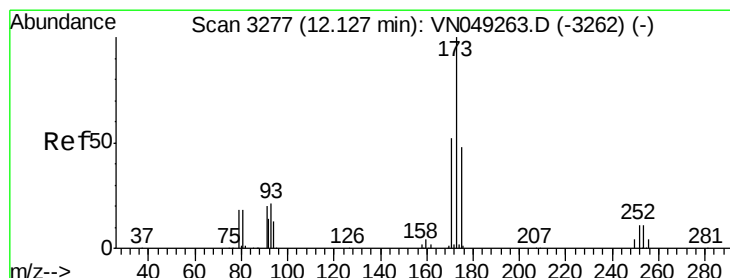
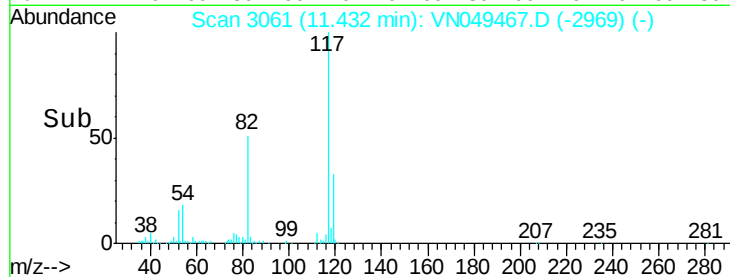
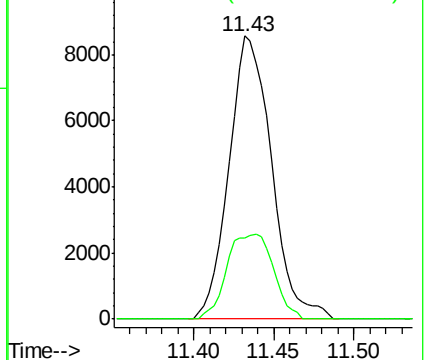
112 100

114 28.5 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: 0.58 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.28 min

Lab File: VN049467.D

Acq: 21 Jun 2018 14:35

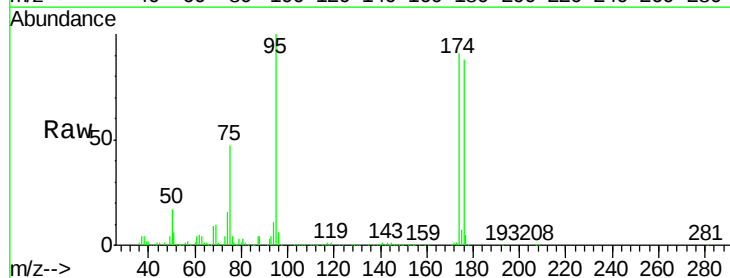
Tgt Ion:173 Resp: 5613

Ion Ratio Lower Upper

173 100

175 580.4 24.5 73.5#

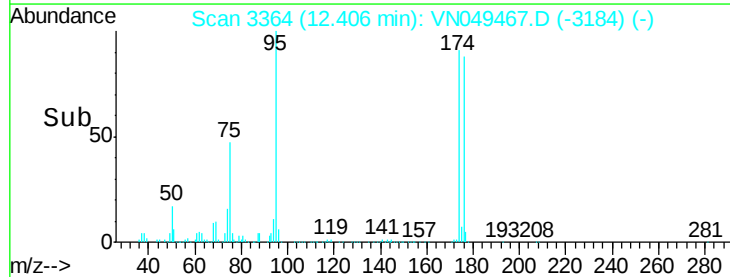
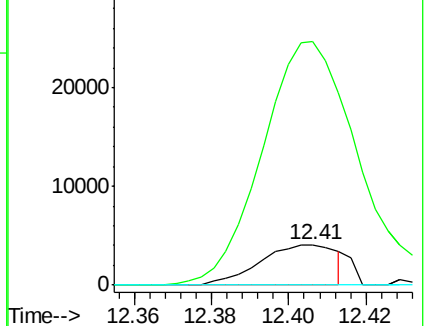
254 0.0 0.1 0.1#

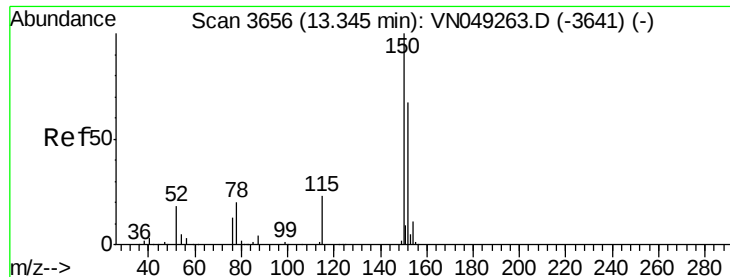


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN049467.D

Acq: 21 Jun 2018 14:35

Instrument :

MSVOA_N

ClientSampled :

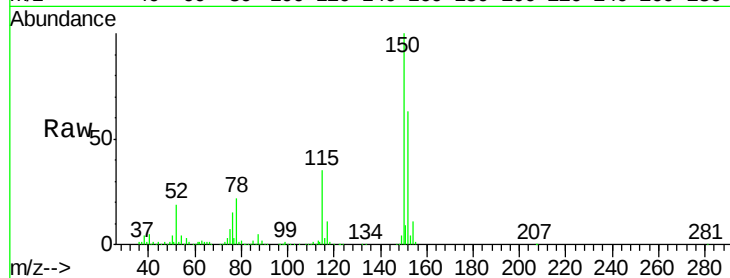
Tot Ion:152 Resp: 415919

Ion Ratio Lower Upper

152 100

115 56.9 28.7 86.1

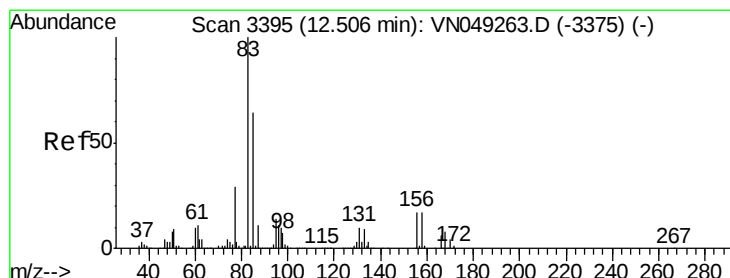
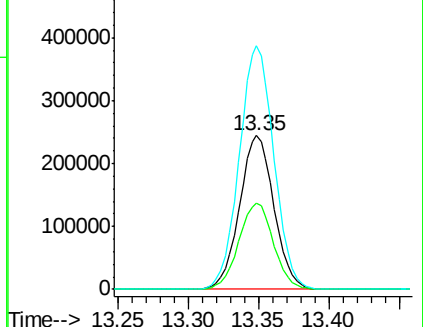
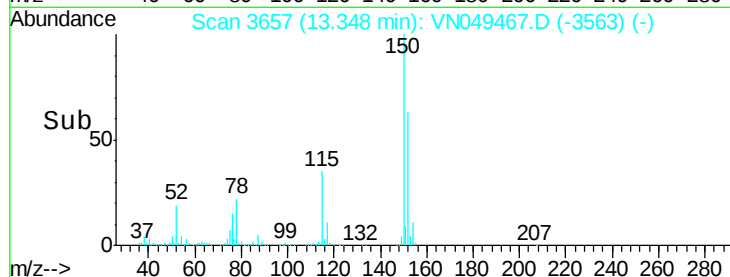
150 159.6 0.0 351.0



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: 12.55 min Scan# 3408

Delta R.T. 0.04 min

Lab File: VN049467.D

Acq: 21 Jun 2018 14:35

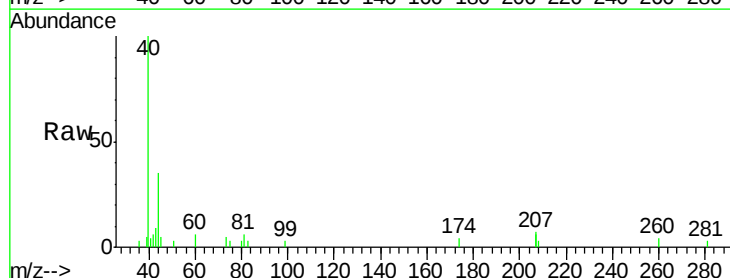
Tgt Ion: 83 Resp: 30

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

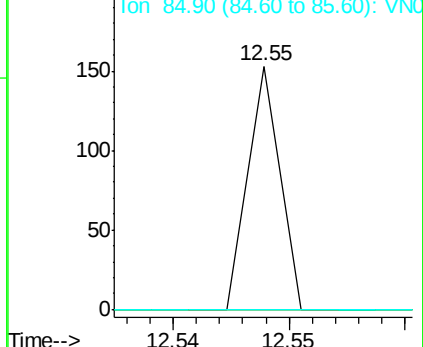
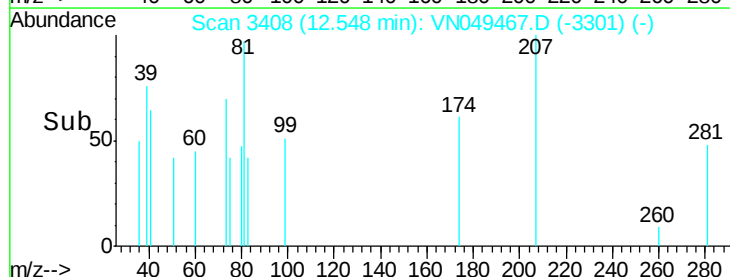
85 0.0 32.0 96.0#

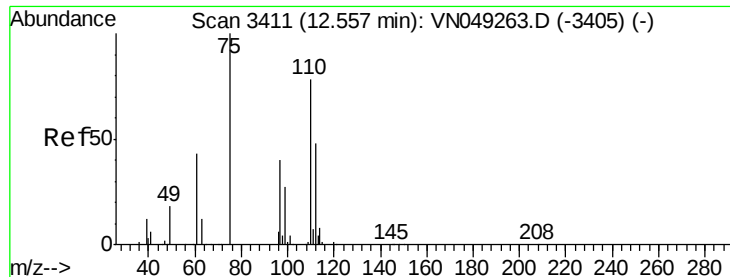


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 42.79 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049467.D

Acq: 21 Jun 2018 14:35

Instrument :

MSVOA_N

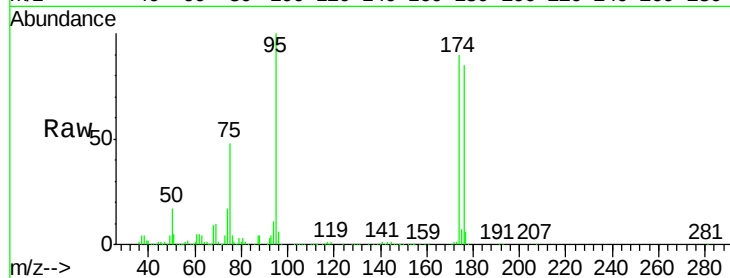
ClientSampleId :

Tot Ion: 75 Resp: 303666

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.40

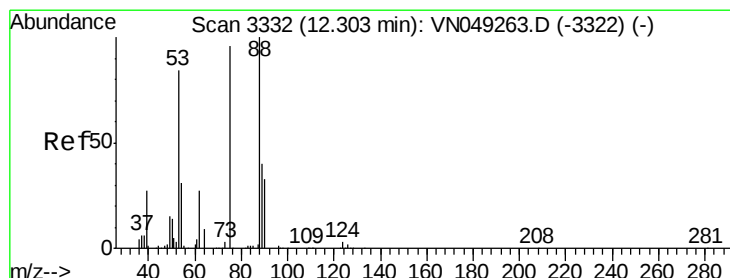
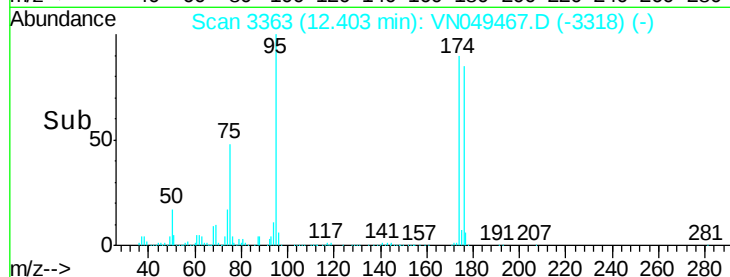
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 135.24 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049467.D

Acq: 21 Jun 2018 14:35

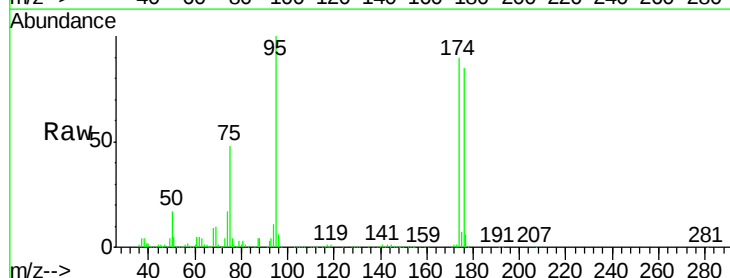
Tgt Ion: 75 Resp: 303666

Ion Ratio Lower Upper

75 100

53 0.3 82.7 124.1#

89 0.0 36.5 54.7#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

12.40

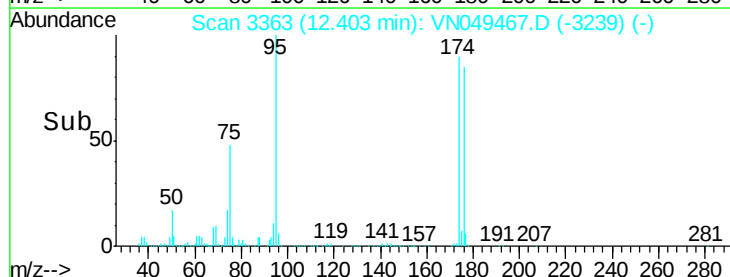
150000

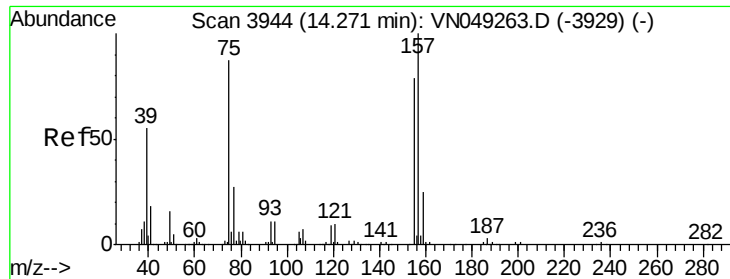
100000

50000

0

Time-->





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.26 ug/l

RT: 14.25 min Scan# 3937

Delta R.T. -0.02 min

Lab File: VN049467.D

Acq: 21 Jun 2018 14:35

Instrument :

MSVOA_N

ClientSampled :

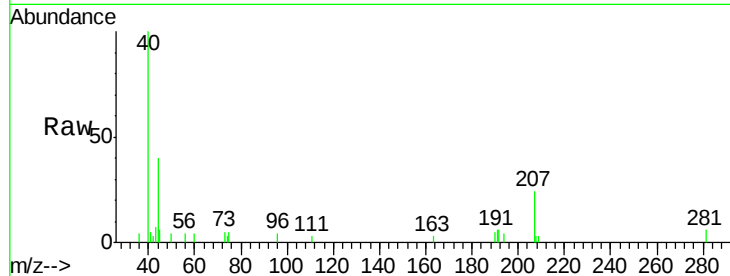
Tot Ion: 75 Resp: 332

Ion Ratio Lower Upper

75 100

155 0.0 38.8 116.3#

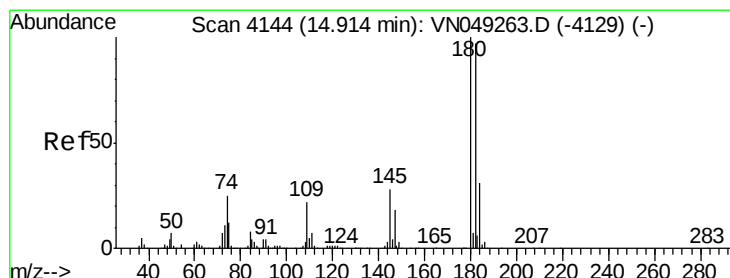
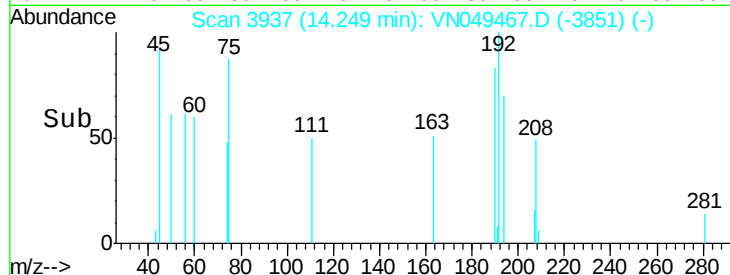
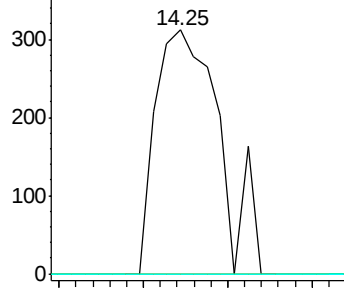
157 0.0 51.0 153.1#



Abundance Ion 74.90 (74.60 to 75.60): VN049467.D (-3851) (-)

Ion 154.80 (154.50 to 155.50): VN049467.D (-3851) (-)

Ion 156.80 (156.50 to 157.50): VN049467.D (-3851) (-)



#93

1,2,4-Trichlorobenzene

Concen: 4.75 ug/l

RT: 14.91 min Scan# 4143

Delta R.T. -0.00 min

Lab File: VN049467.D

Acq: 21 Jun 2018 14:35

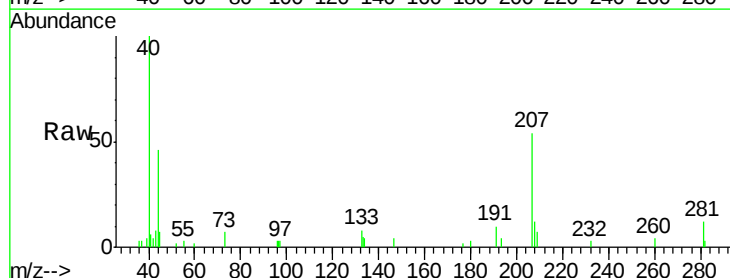
Tgt Ion: 180 Resp: 64

Ion Ratio Lower Upper

180 100

182 0.0 46.9 140.8#

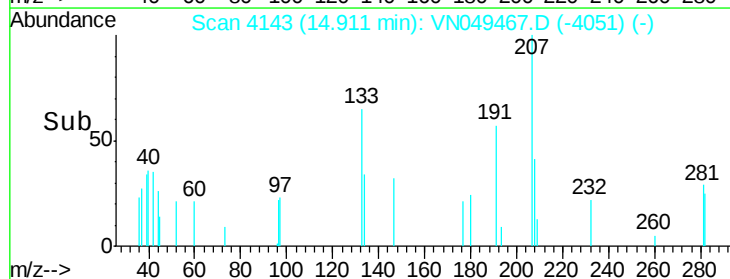
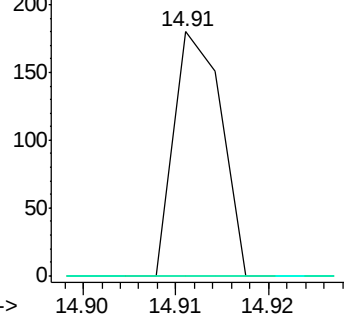
145 0.0 14.7 44.1#

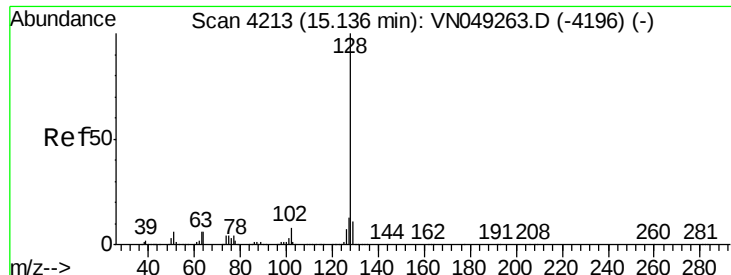


Abundance Ion 179.80 (179.50 to 180.50): VN049467.D (-4051) (-)

Ion 181.80 (181.50 to 182.50): VN049467.D (-4051) (-)

Ion 144.80 (144.50 to 145.50): VN049467.D (-4051) (-)





#95
 Naphthalene
 Concen: 2.11 ug/l
 RT: 15.13 min Scan# 4211
 Delta R.T. -0.01 min
 Lab File: VN049467.D
 Acq: 21 Jun 2018 14:35

Instrument :
 MSVOA_N
 ClientSampleId :

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

