

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062018\
 Data File : VN049443.D
 Acq On : 20 Jun 2018 18:21
 Operator : MD\SY
 Sample : J3581-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 21 01:30:06 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	1142351	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1802763	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1477125	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	504886	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	774573	51.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.24%	
35) Dibromofluoromethane	7.59	113	679486	46.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.18%	
50) Toluene-d8	10.09	98	2432231	43.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.60%	
62) 4-Bromofluorobenzene	12.40	95	649679	35.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	70.76%	

Target Compounds

						Qvalue
5) Bromomethane	2.57	94	4164	0.44	ug/l	82
11) Tert butyl alcohol	4.80	59	205	0.23	ug/l #	91
13) Acrolein	3.59	56	218	0.23	ug/l #	44
16) Acetone	3.82	43	45537	12.38	ug/l	96
18) Methyl Acetate	4.33	43	90325	8.05	ug/l	95
20) Methylene Chloride	4.55	84	176459	11.48	ug/l	89
25) 2-Butanone	6.85	43	21323	4.32	ug/l	90
29) Tetrahydrofuran	7.23	42	1628	0.51	ug/l #	82
30) Chloroform	7.37	83	7023	0.27	ug/l #	80
31) Cyclohexane	7.67	56	20837	0.76	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	79706	3.86	ug/l #	51
37) Ethyl Acetate	6.85	43	21323	1.90	ug/l #	70
38) Carbon Tetrachloride	7.67	117	107138	5.01	ug/l #	17
43) Isopropyl Acetate	8.27	43	279481	13.02	ug/l #	64
44) Trichloroethene	8.83	130	4330	0.26	ug/l	72
49) 1,4-Dioxane	9.20	88	221	1.58	ug/l #	3
51) 4-Methyl-2-Pentanone	9.99	43	6380	0.57	ug/l	89
58) 2-Chloroethyl Vinyl ether	9.65	63	72	14.34	ug/l #	51
59) 2-Hexanone	10.76	43	5796	0.80	ug/l	93
65) Chlorobenzene	11.44	112	9430	0.25	ug/l	95
68) m/p-Xylenes	11.62	106	17807	0.75	ug/l	100
69) o-Xylene	11.95	106	5778	0.25	ug/l	96
71) Bromoform	12.40	173	2994	0.32	ug/l #	1
73) Isopropylbenzene	12.25	105	12786	0.29	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	66	Below	Cal #	26
76) 1,2,3-Trichloropropane	12.40	75	311027	36.10	ug/l #	100
78) n-propylbenzene	12.59	91	32901	0.68	ug/l	97
79) 2-Chlorotoluene	12.59	91	32901	1.07	ug/l #	41
81) trans-1,4-Dichloro-2-buten	12.40	75	311027	114.11	ug/l #	9
82) 4-Chlorotoluene	12.59	91	32901	1.11	ug/l #	42
85) sec-Butylbenzene	13.17	105	18563	0.45	ug/l	84
89) n-Butylbenzene	13.62	91	6152	0.23	ug/l #	74
90) Hexachloroethane	13.89	117	7985	Below	Cal #	9
93) 1,2,4-Trichlorobenzene	14.91	180	820	4.83	ug/l #	1

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Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:02:01 2018
Response via : Initial Calibration

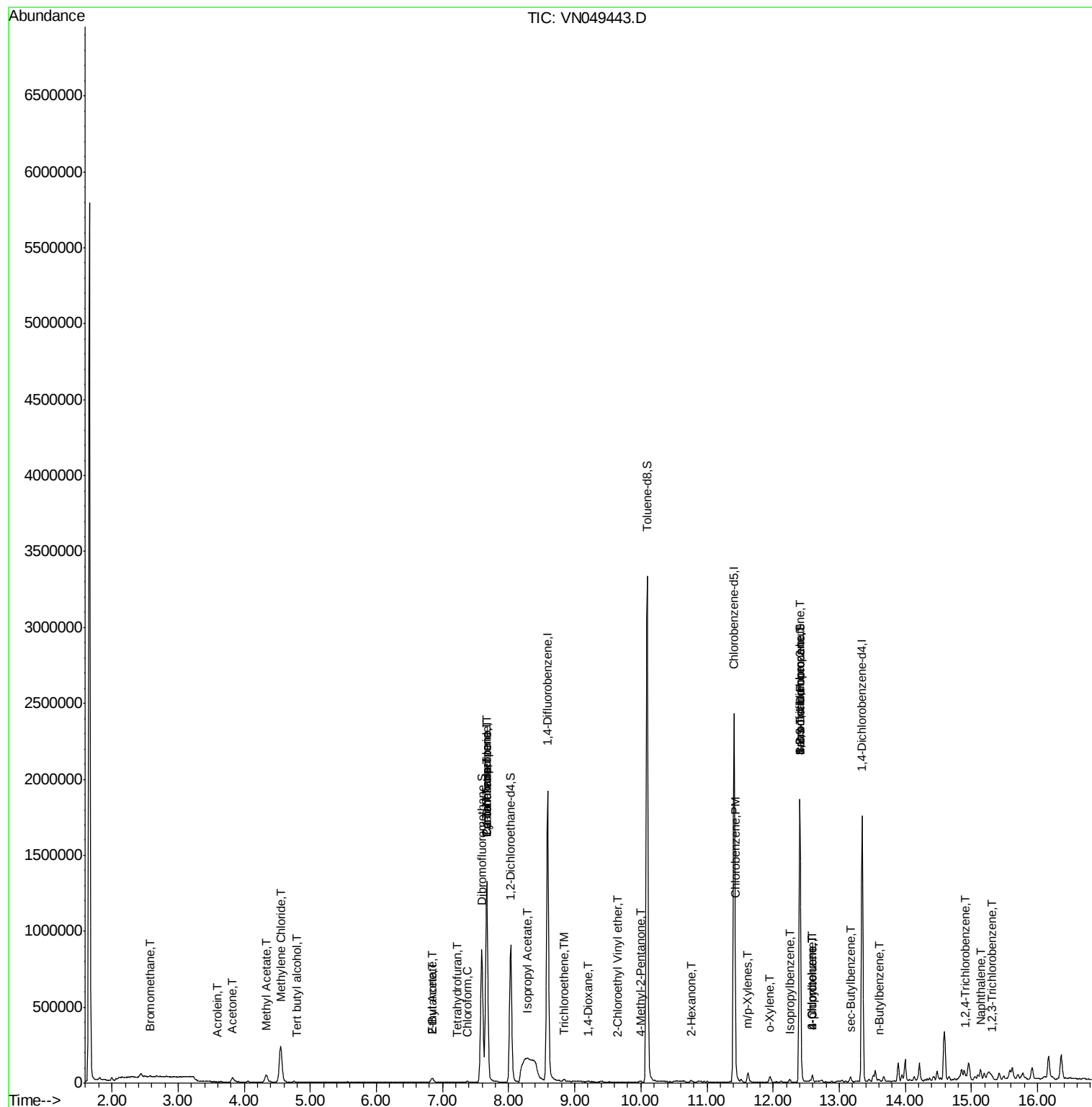
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) Naphthalene	15.14	128	62020	6.46	ug/l	97
96) 1,2,3-Trichlorobenzene	15.32	180	929	3.56	ug/l #	58

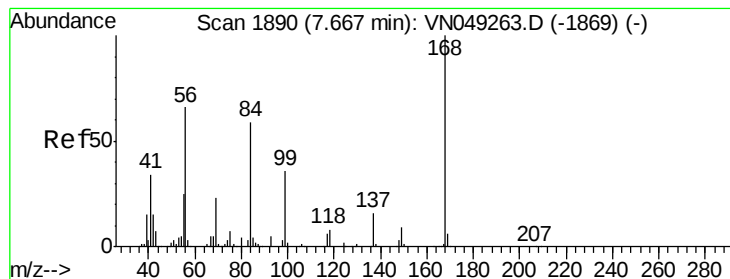
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN062018\
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN049443.D

Acq: 20 Jun 2018 18:21

Instrument :

MSVOA_N

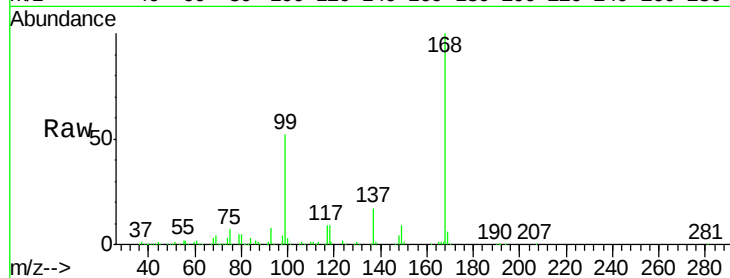
ClientSampleId :

Tot Ion:168 Resp: 1142351

Ion Ratio Lower Upper

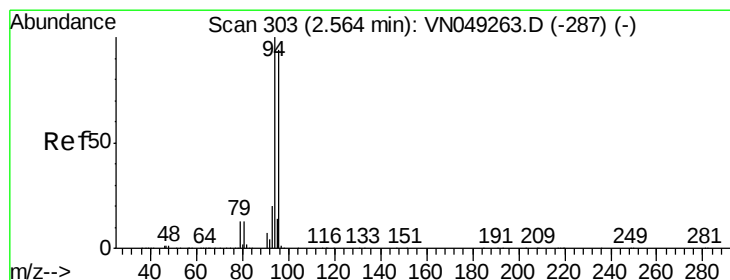
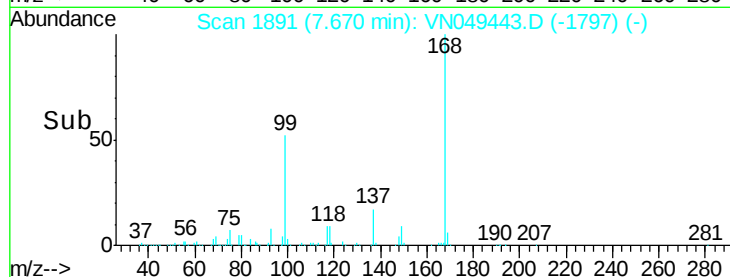
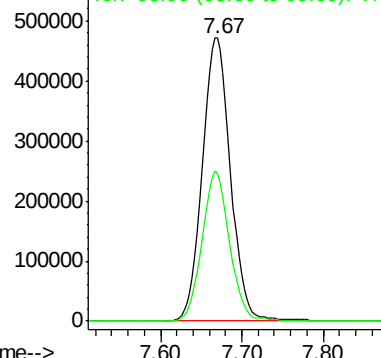
168 100

99 52.3 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#5

Bromomethane

Concen: 0.44 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.00 min

Lab File: VN049443.D

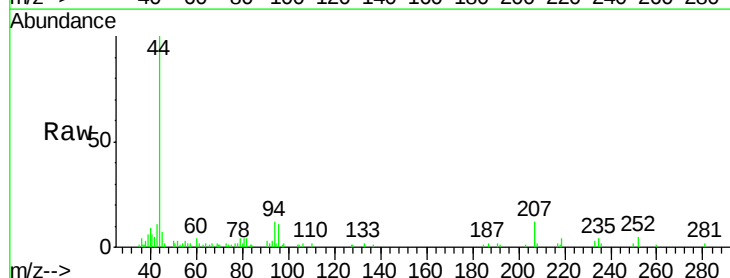
Acq: 20 Jun 2018 18:21

Tgt Ion: 94 Resp: 4164

Ion Ratio Lower Upper

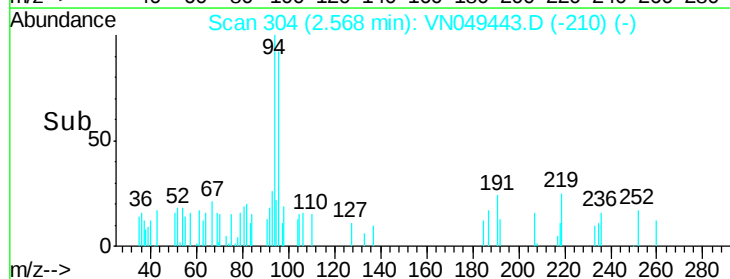
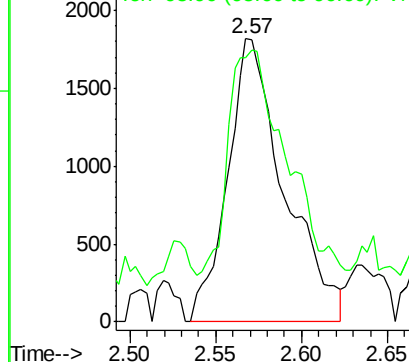
94 100

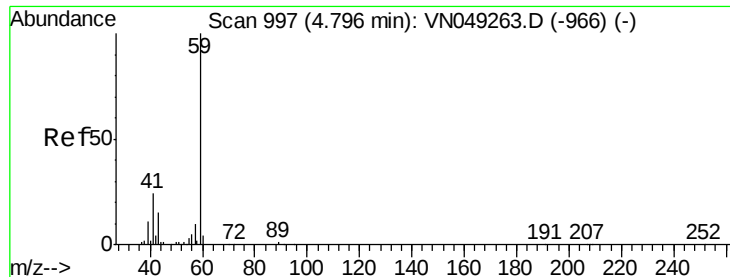
96 73.5 72.8 109.2



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

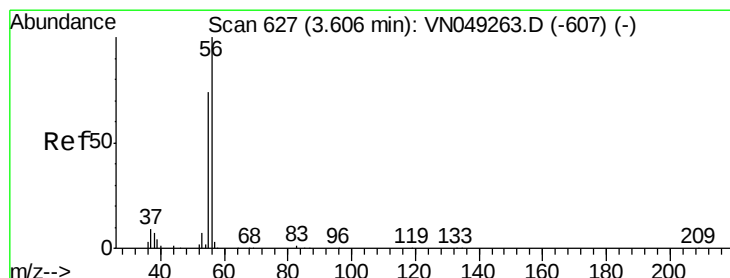
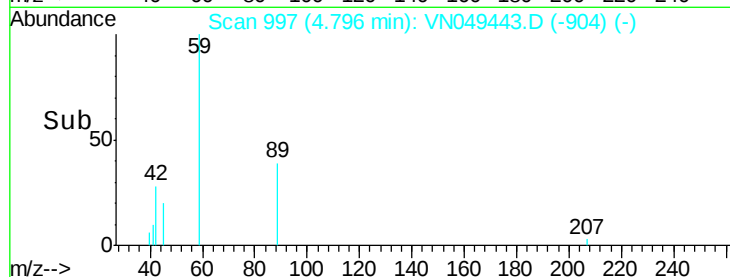
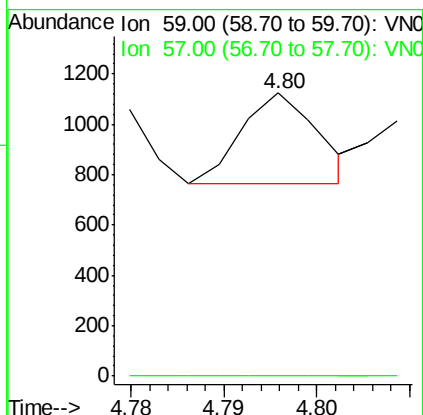
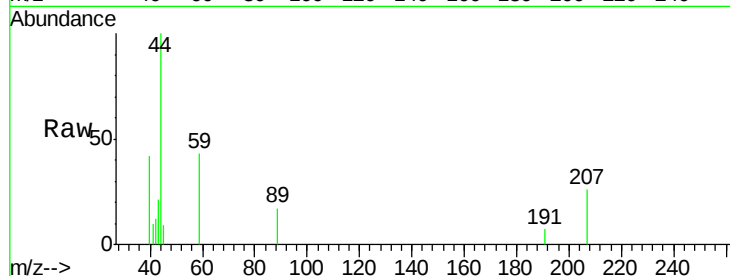




#11
Tert butyl alcohol
Concen: 0.23 ug/l
RT: 4.80 min Scan# 997
Delta R.T. 0.00 min
Lab File: VN049443.D
Acq: 20 Jun 2018 18:21

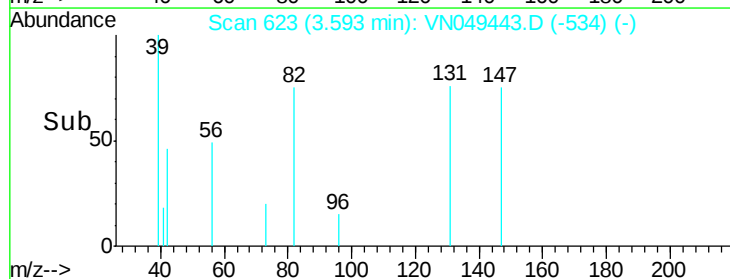
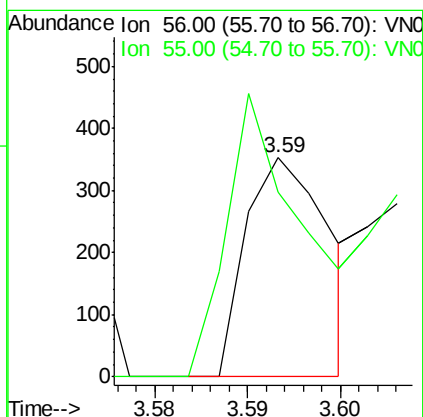
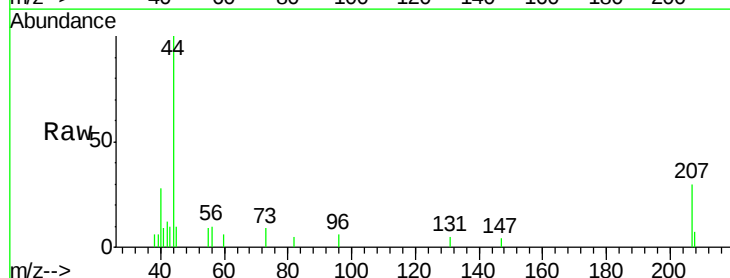
Instrument :
MSVOA_N
ClientSampled :

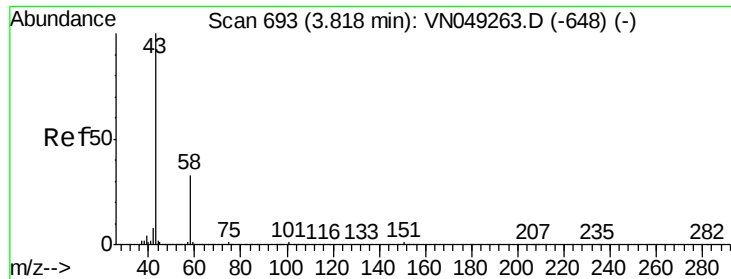
Tot Ion: 59 Resp: 205
Ion Ratio Lower Upper
59 100
57 14.6 9.0 13.6#



#13
Acrolein
Concen: 0.23 ug/l
RT: 3.59 min Scan# 623
Delta R.T. -0.01 min
Lab File: VN049443.D
Acq: 20 Jun 2018 18:21

Tgt Ion: 56 Resp: 218
Ion Ratio Lower Upper
56 100
55 117.4 57.1 85.7#





#16

Acetone

Concen: 12.38 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.01 min

Lab File: VN049443.D

Acq: 20 Jun 2018 18:21

Instrument :

MSVOA_N

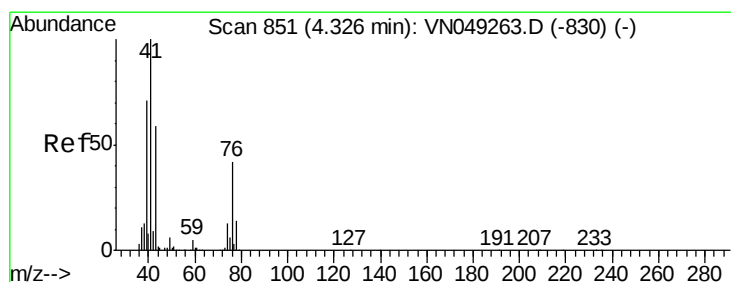
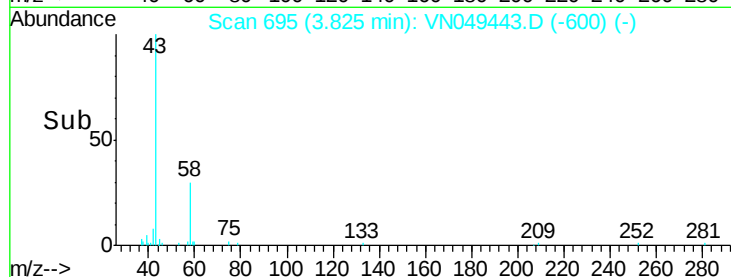
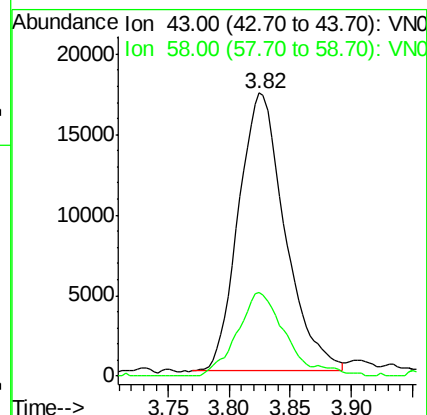
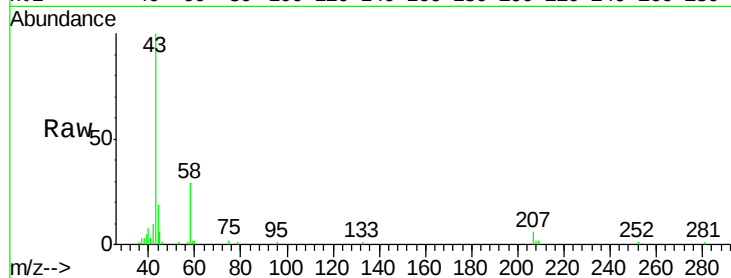
ClientSampleId :

Tot Ion: 43 Resp: 45537

Ion Ratio Lower Upper

43 100

58 30.0 22.4 33.6



#18

Methyl Acetate

Concen: 8.05 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.01 min

Lab File: VN049443.D

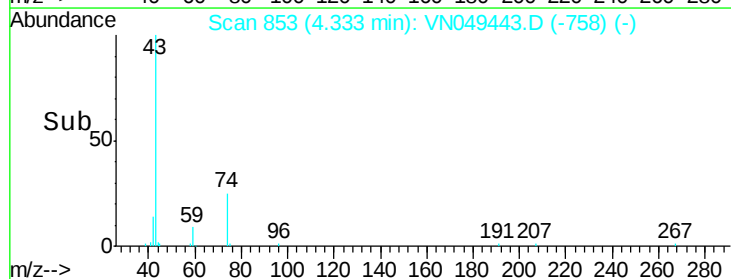
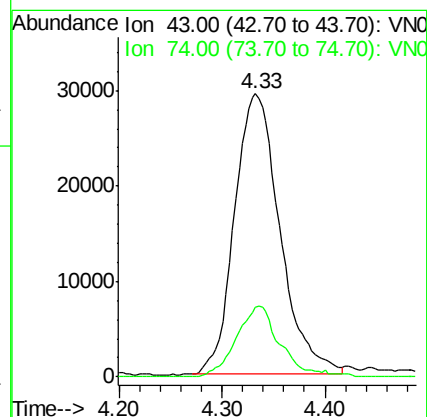
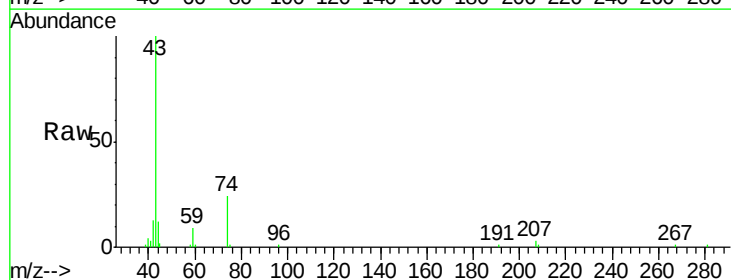
Acq: 20 Jun 2018 18:21

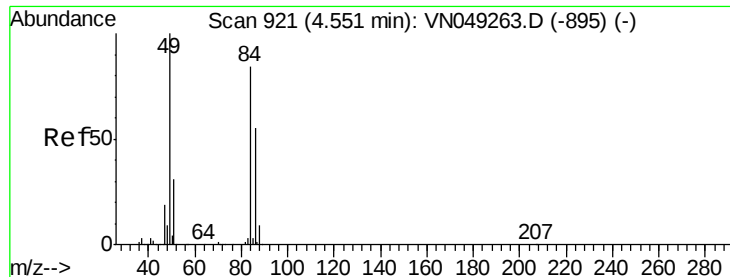
Tgt Ion: 43 Resp: 90325

Ion Ratio Lower Upper

43 100

74 24.1 17.4 26.0

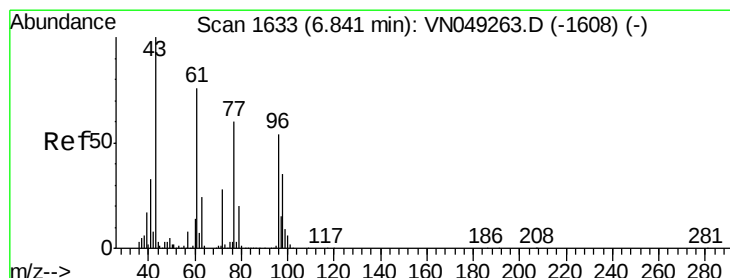
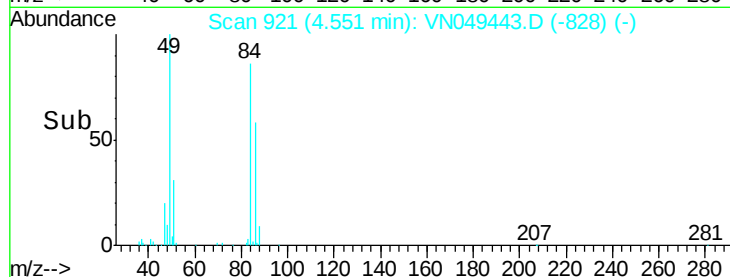
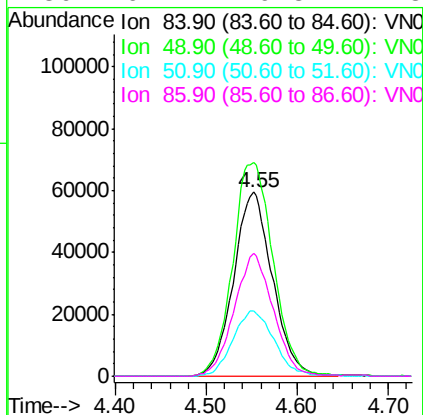
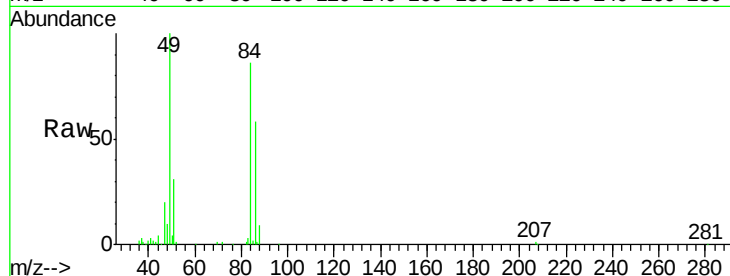




#20
Methylene Chloride
Concen: 11.48 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN049443.D
Acq: 20 Jun 2018 18:21

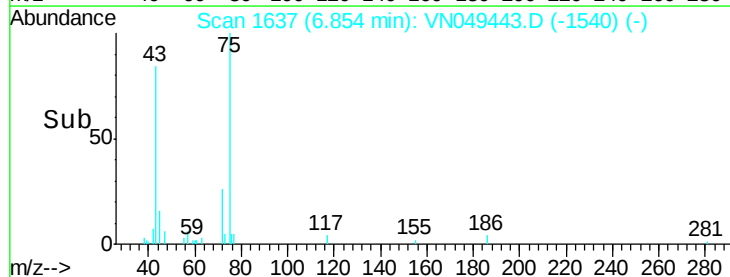
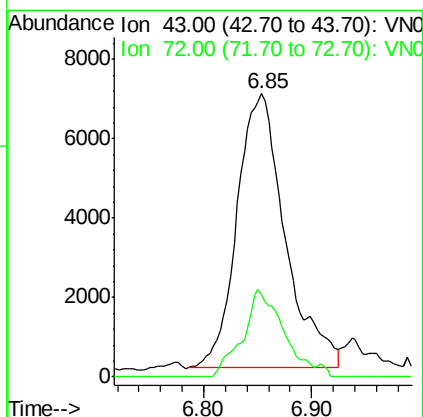
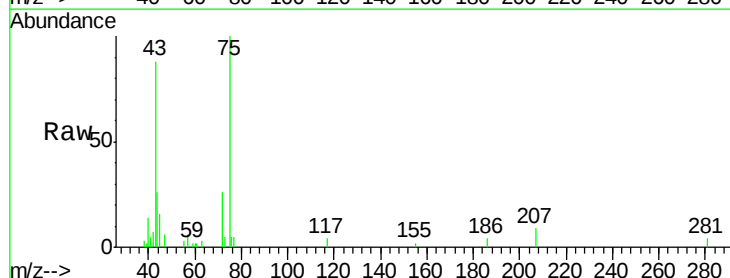
Instrument :
MSVOA_N
ClientSampleId :

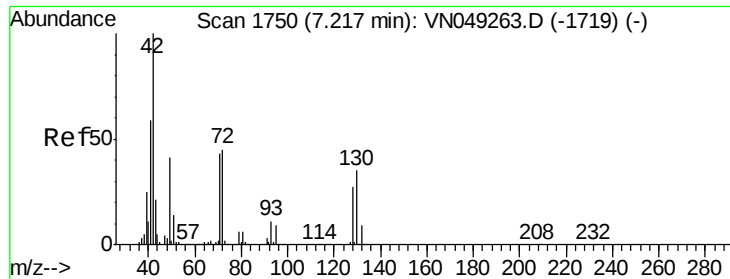
Tot Ion: 84 Resp: 176459
Ion Ratio Lower Upper
84 100
49 116.2 106.9 160.3
51 35.7 32.7 49.1
86 67.2 49.8 74.8



#25
2-Butanone
Concen: 4.32 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. 0.01 min
Lab File: VN049443.D
Acq: 20 Jun 2018 18:21

Tgt Ion: 43 Resp: 21323
Ion Ratio Lower Upper
43 100
72 30.2 20.2 30.2

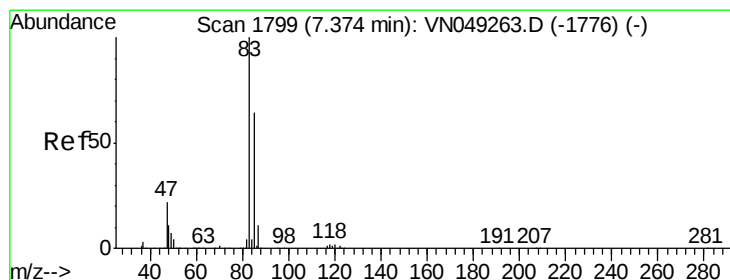
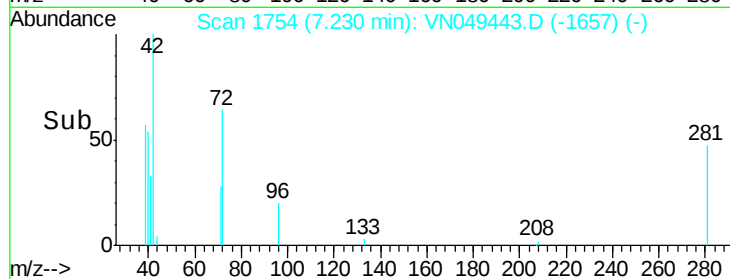
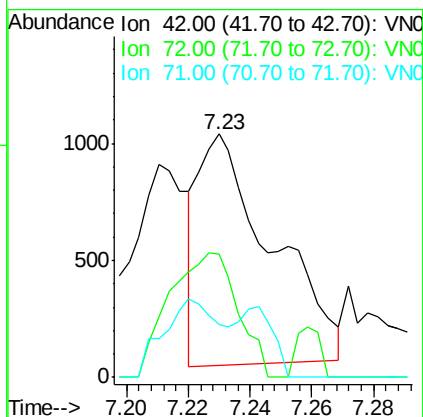
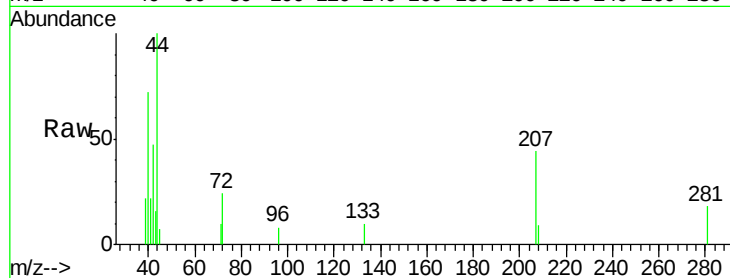




#29
Tetrahydrofuran
Concen: 0.51 ug/l
RT: 7.23 min Scan# 1754
Delta R.T. 0.01 min
Lab File: VN049443.D
Acq: 20 Jun 2018 18:21

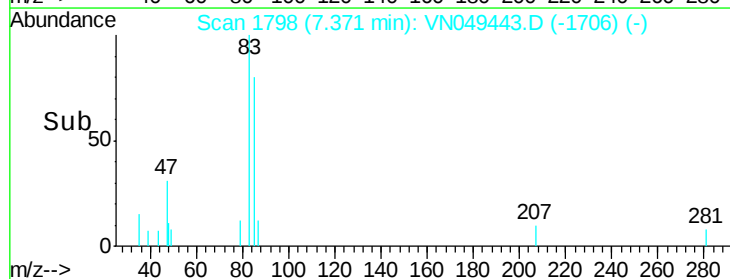
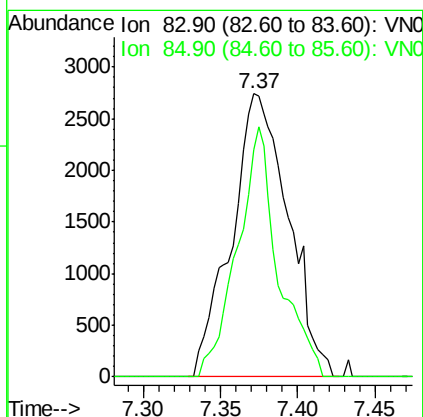
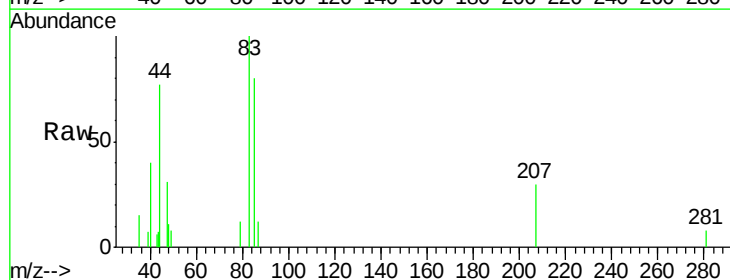
Instrument :
MSVOA_N
ClientSampleId :

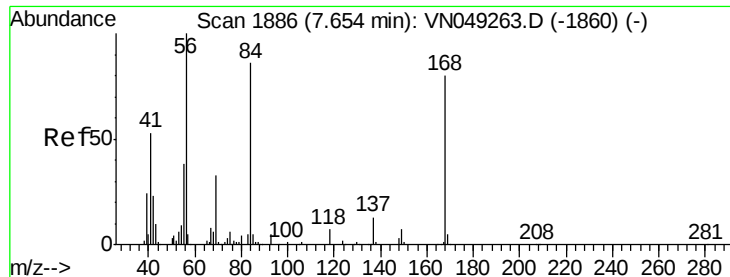
Tot Ion: 42 Resp: 1628
Ion Ratio Lower Upper
42 100
72 49.9 32.2 48.4#
71 25.7 30.5 45.7#



#30
Chloroform
Concen: 0.27 ug/l
RT: 7.37 min Scan# 1798
Delta R.T. -0.00 min
Lab File: VN049443.D
Acq: 20 Jun 2018 18:21

Tgt Ion: 83 Resp: 7023
Ion Ratio Lower Upper
83 100
85 80.2 51.7 77.5#





#31

Cyclohexane

Concen: 0.76 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.02 min

Lab File: VN049443.D

Acq: 20 Jun 2018 18:21

Instrument :

MSVOA_N

ClientSampleId :

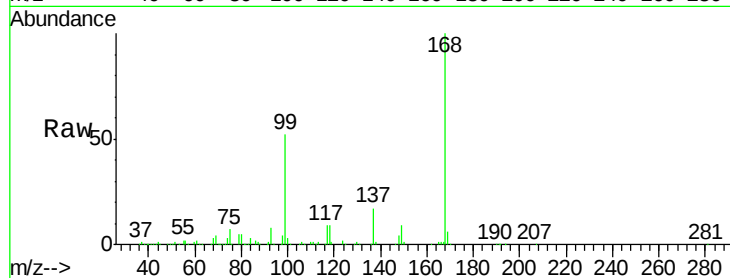
Tot Ion: 56 Resp: 20837

Ion Ratio Lower Upper

56 100

69 210.8 25.0 37.4#

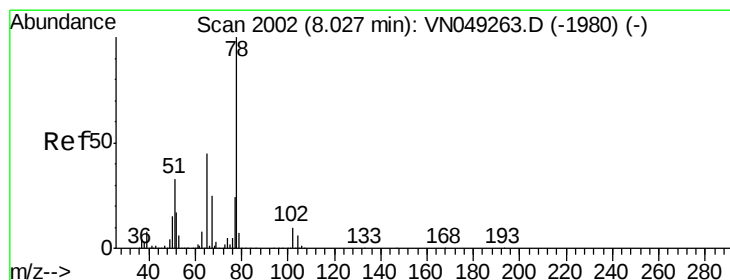
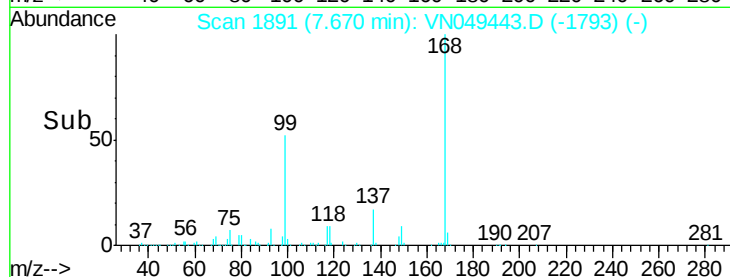
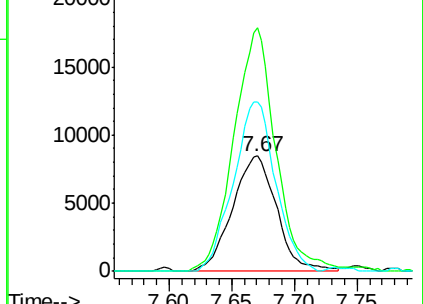
84 146.6 64.6 96.8#



Abundance Ion 56.00 (55.70 to 56.70): VN049443.D (-1860) (-)

Ion 69.00 (68.70 to 69.70): VN049443.D (-1860) (-)

Ion 84.00 (83.70 to 84.70): VN049443.D (-1860) (-)



#33

1,2-Dichloroethane-d4

Concen: 51.12 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN049443.D

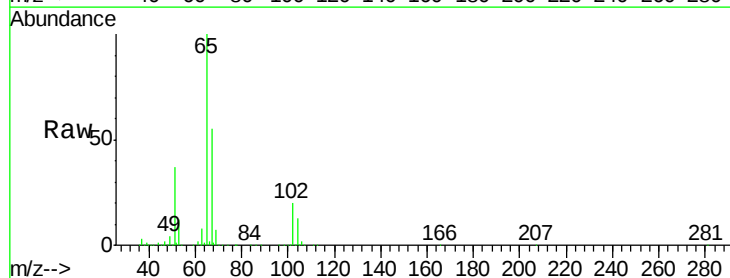
Acq: 20 Jun 2018 18:21

Tgt Ion: 65 Resp: 774573

Ion Ratio Lower Upper

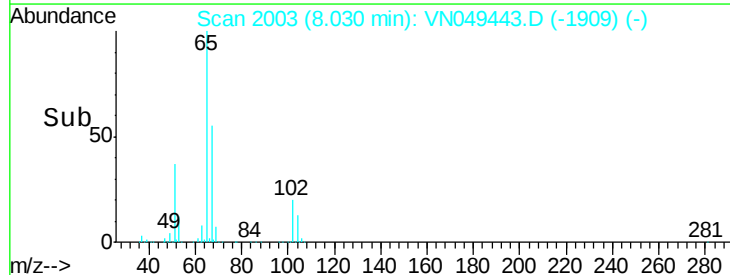
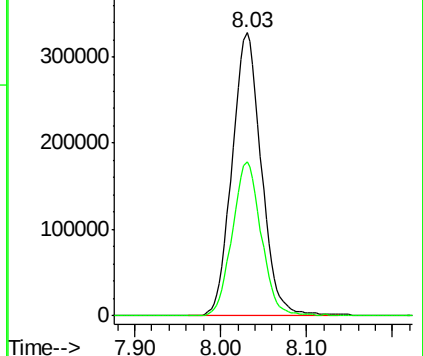
65 100

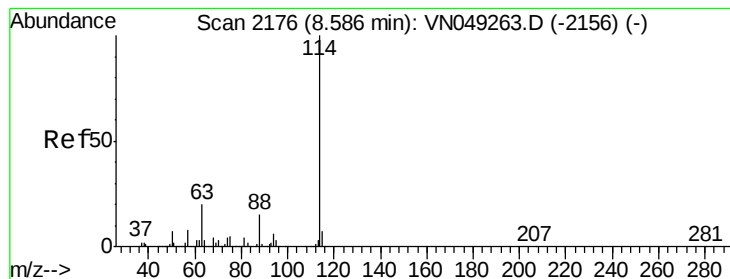
67 53.8 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN049443.D (-1909) (-)

Ion 66.90 (66.60 to 67.60): VN049443.D (-1909) (-)





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN049443.D

Acq: 20 Jun 2018 18:21

Instrument :

MSVOA_N

ClientSampled :

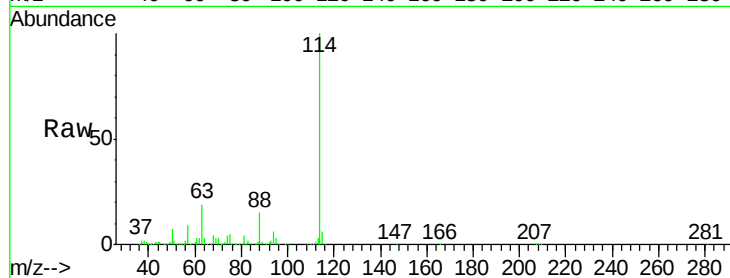
Tot Ion:114 Resp: 1802763

Ion Ratio Lower Upper

114 100

63 19.4 0.0 44.4

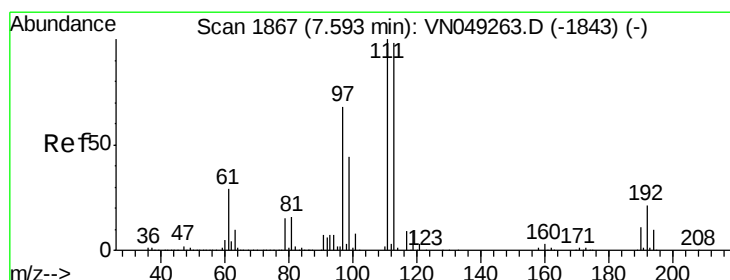
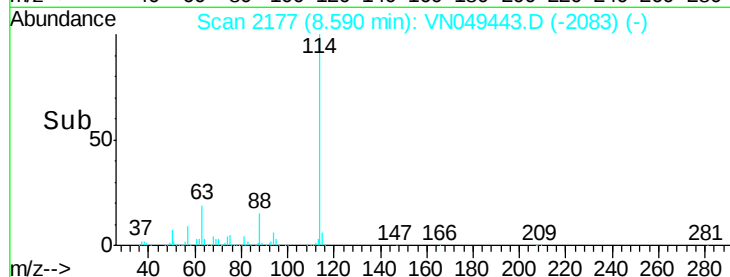
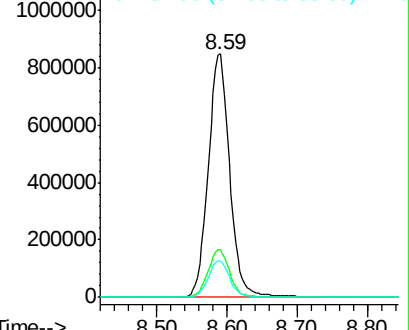
88 15.1 0.0 31.4



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: 46.59 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN049443.D

Acq: 20 Jun 2018 18:21

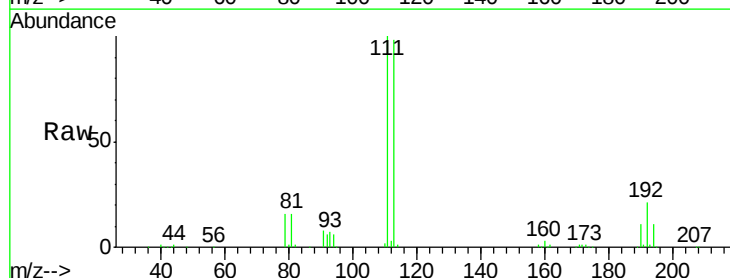
Tgt Ion:113 Resp: 679486

Ion Ratio Lower Upper

113 100

111 102.6 82.4 123.6

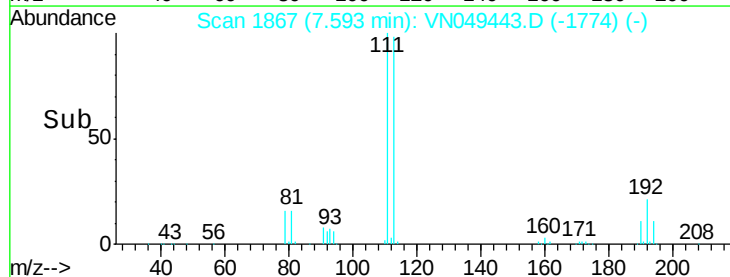
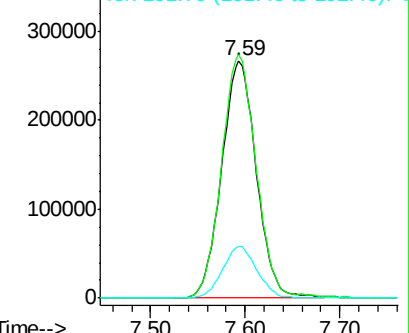
192 21.7 15.0 22.6

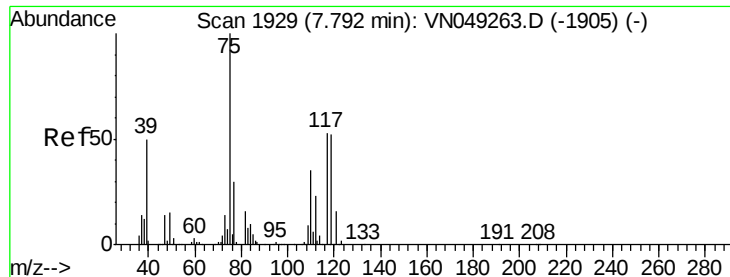


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.86 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN049443.D

Acq: 20 Jun 2018 18:21

Instrument :

MSVOA_N

ClientSampleId :

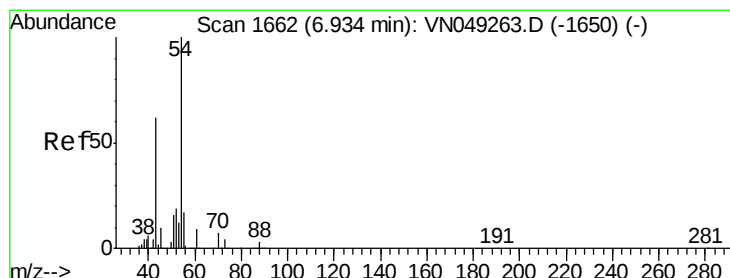
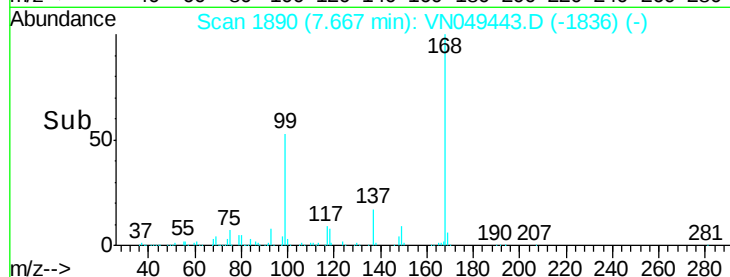
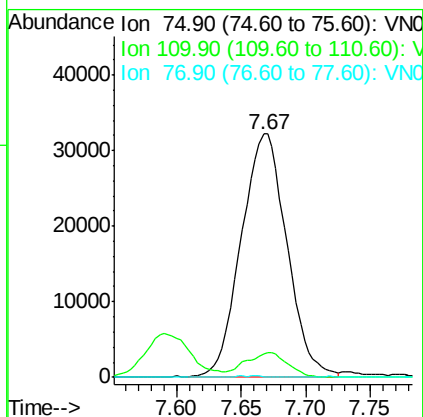
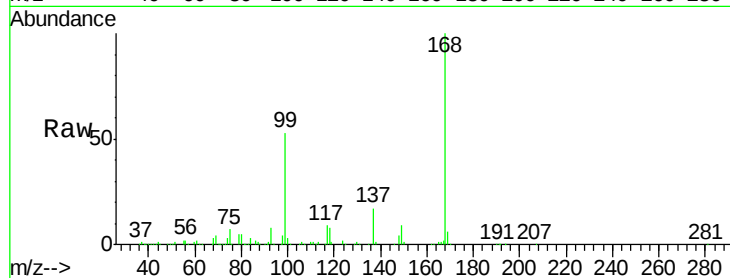
Tot Ion: 75 Resp: 79706

Ion Ratio Lower Upper

75 100

110 9.3 17.0 50.9#

77 0.1 24.4 36.6#



#37

Ethyl Acetate

Concen: 1.90 ug/l

RT: 6.85 min Scan# 1637

Delta R.T. -0.08 min

Lab File: VN049443.D

Acq: 20 Jun 2018 18:21

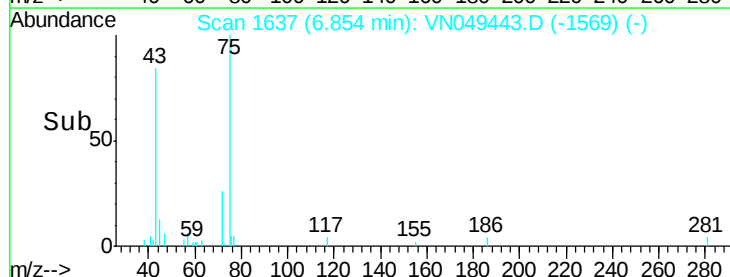
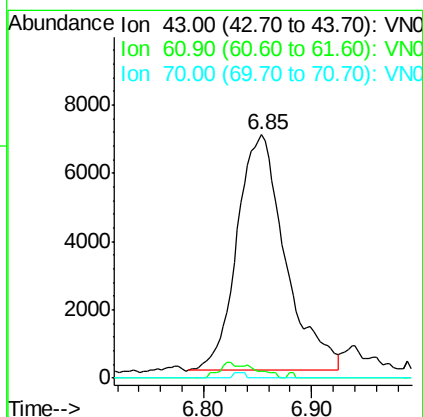
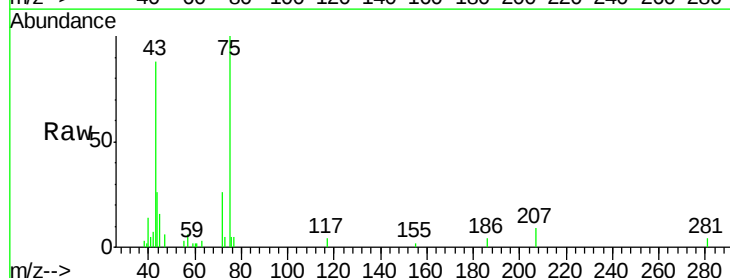
Tgt Ion: 43 Resp: 21323

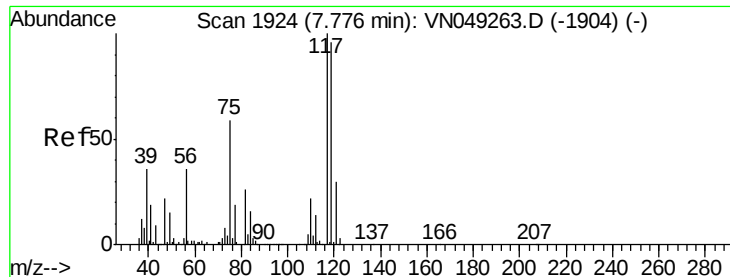
Ion Ratio Lower Upper

43 100

61 0.0 11.0 16.4#

70 0.0 7.2 10.8#





#38

Carbon Tetrachloride

Concen: 5.01 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN049443.D

Acq: 20 Jun 2018 18:21

Instrument :

MSVOA_N

ClientSampled :

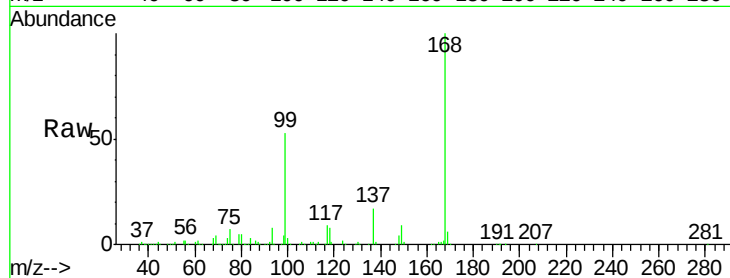
Tot Ion:117 Resp: 107138

Ion Ratio Lower Upper

117 100

119 5.8 75.6 113.4#

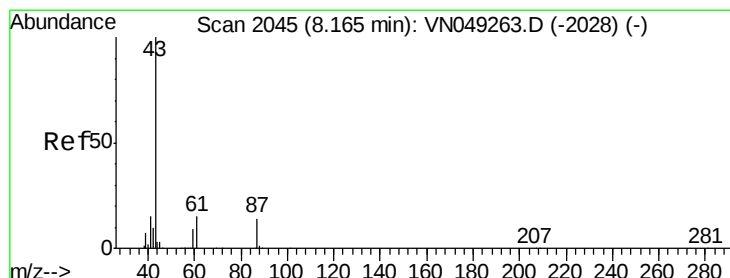
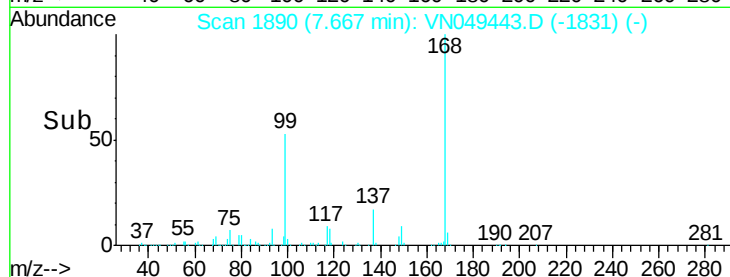
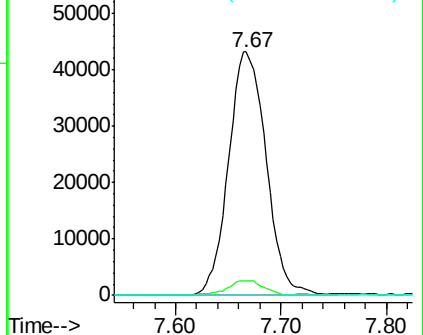
121 0.0 24.7 37.1#



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: 13.02 ug/l

RT: 8.27 min Scan# 2078

Delta R.T. 0.11 min

Lab File: VN049443.D

Acq: 20 Jun 2018 18:21

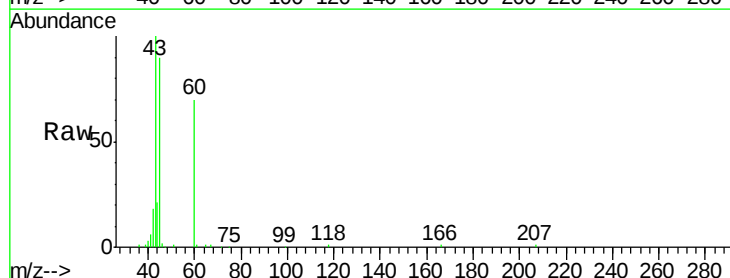
Tgt Ion: 43 Resp: 279481

Ion Ratio Lower Upper

43 100

61 0.0 14.2 21.4#

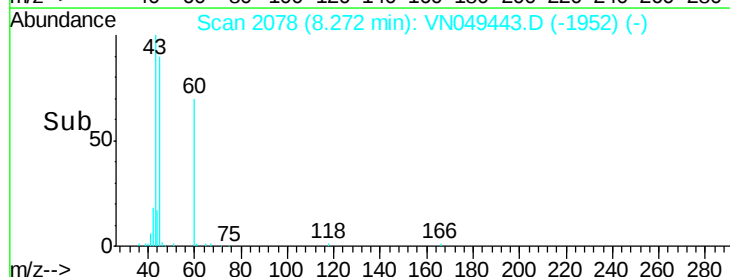
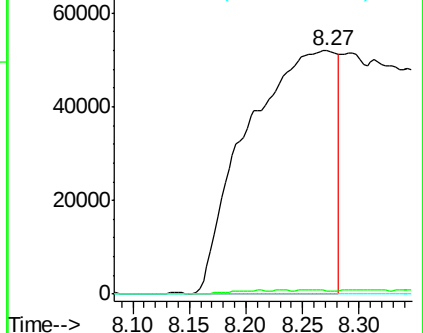
87 0.0 9.4 14.0#

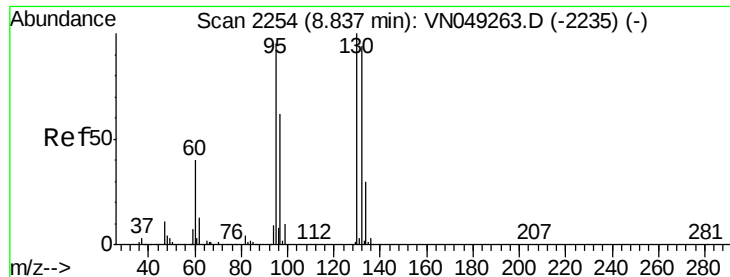


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#44

Trichloroethene

Concen: 0.26 ug/l

RT: 8.83 min Scan# 2253

Delta R.T. -0.00 min

Lab File: VN049443.D

Acq: 20 Jun 2018 18:21

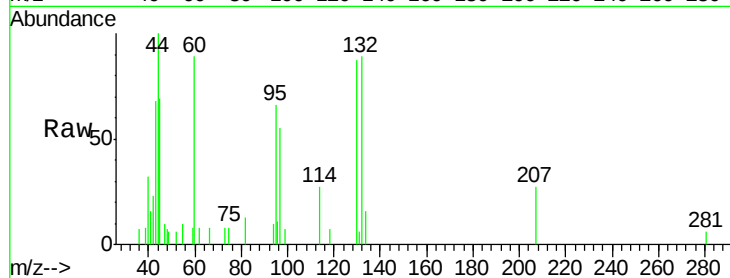
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:130 Resp: 4330

Ion Ratio Lower Upper

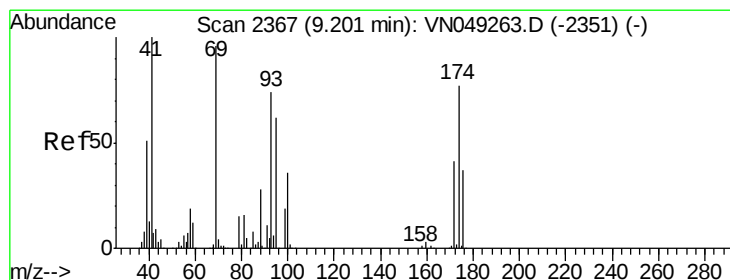
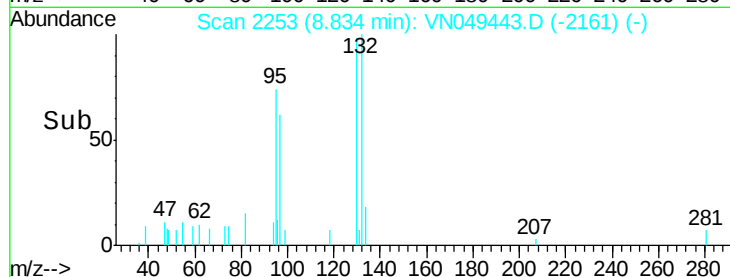
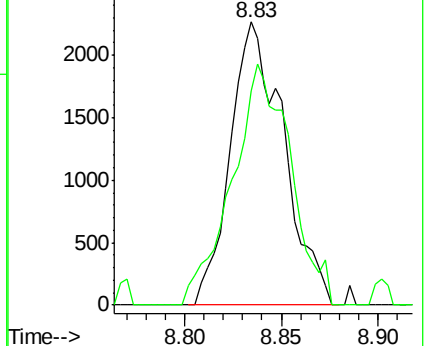
130 100

95 75.8 0.0 208.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN



#49

1,4-Dioxane

Concen: 1.58 ug/l

RT: 9.20 min Scan# 2367

Delta R.T. 0.00 min

Lab File: VN049443.D

Acq: 20 Jun 2018 18:21

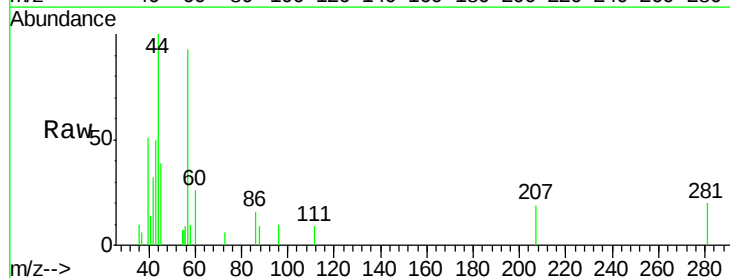
Tgt Ion: 88 Resp: 221

Ion Ratio Lower Upper

88 100

43 182.4 30.9 46.3#

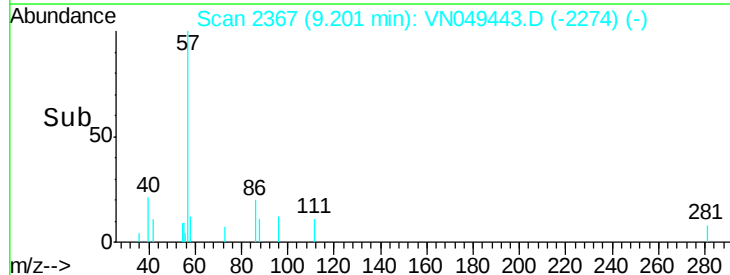
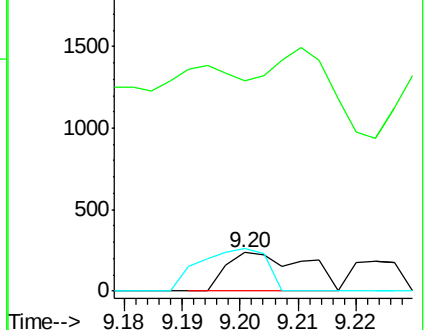
58 94.1 58.9 88.3#

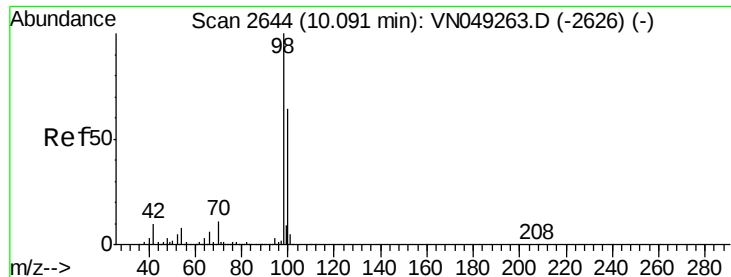


Abundance Ion 88.00 (87.70 to 88.70): VN

Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN





#50

Toluene-d8

Concen: 43.80 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN049443.D

Acq: 20 Jun 2018 18:21

Instrument :

MSVOA_N

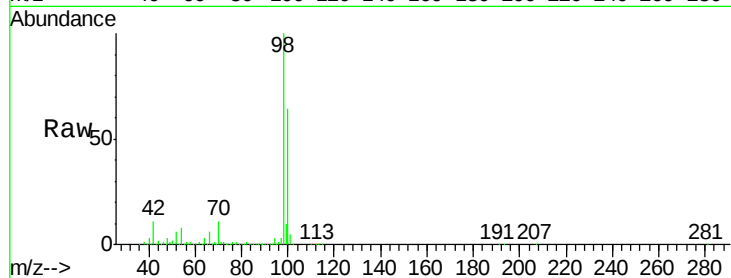
ClientSampled :

Tot Ion: 98 Resp: 2432231

Ion Ratio Lower Upper

98 100

100 63.8 49.8 74.8



Abundance Ion 98.00 (97.70 to 98.70): VN049263.D (-2626) (-)

Ion 100.00 (99.70 to 100.70): VN049263.D (-2626) (-)

10.09

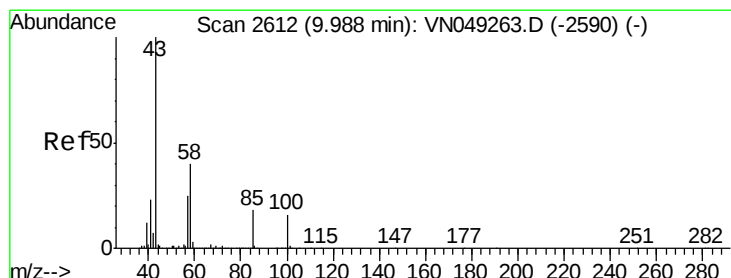
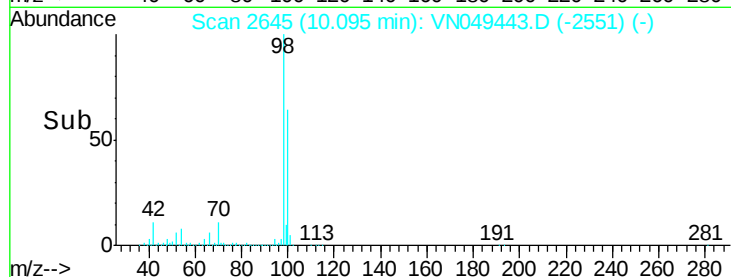
1500000

1000000

500000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.57 ug/l

RT: 9.99 min Scan# 2613

Delta R.T. 0.00 min

Lab File: VN049443.D

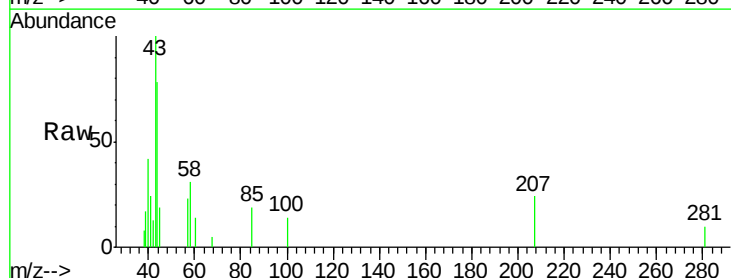
Acq: 20 Jun 2018 18:21

Tgt Ion: 43 Resp: 6380

Ion Ratio Lower Upper

43 100

58 29.9 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN049263.D (-2590) (-)

Ion 58.00 (57.70 to 58.70): VN049263.D (-2590) (-)

9.99

4000

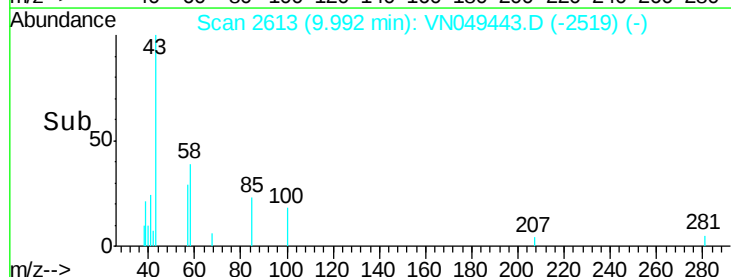
3000

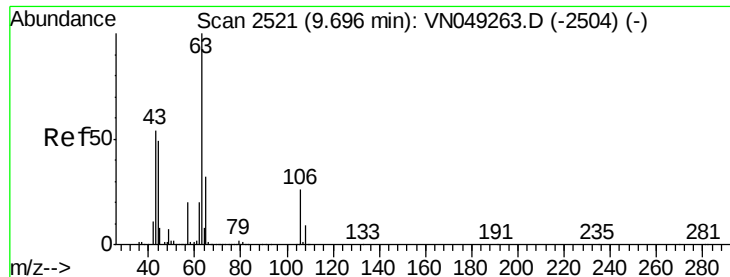
2000

1000

0

Time-->

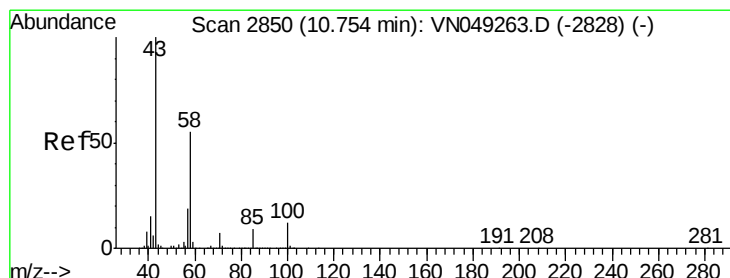
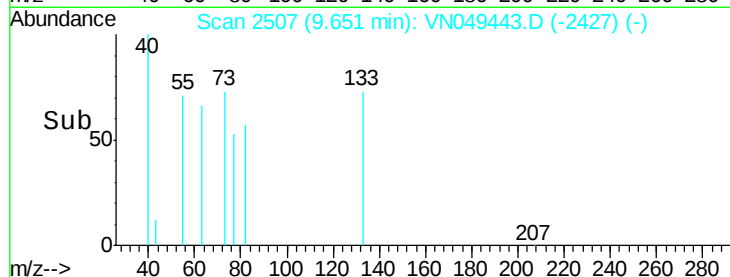
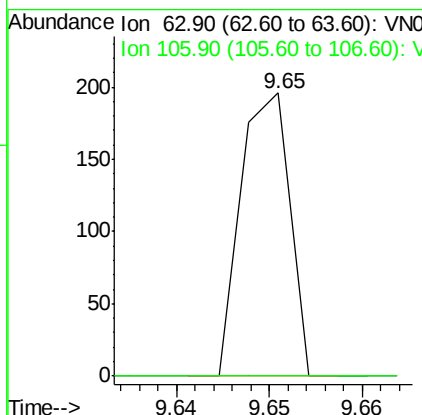
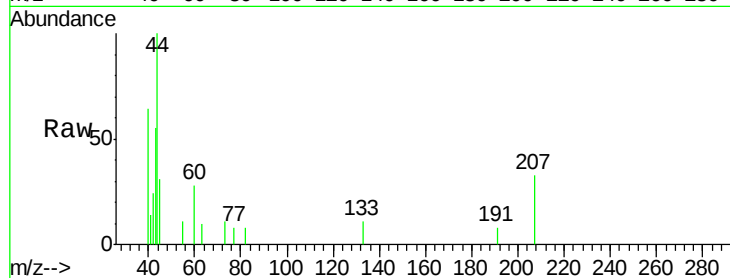




#58
 2-Chloroethyl Vinyl ether
 Concen: 14.34 ug/l
 RT: 9.65 min Scan# 2507
 Delta R.T. -0.04 min
 Lab File: VN049443.D
 Acq: 20 Jun 2018 18:21

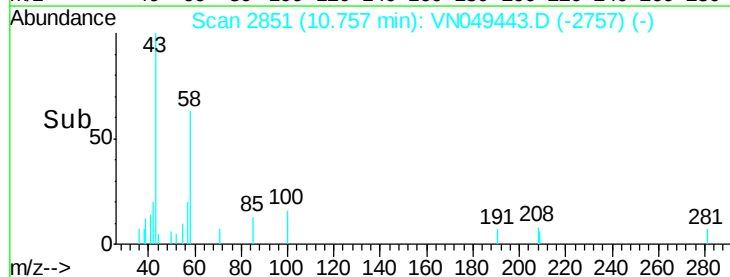
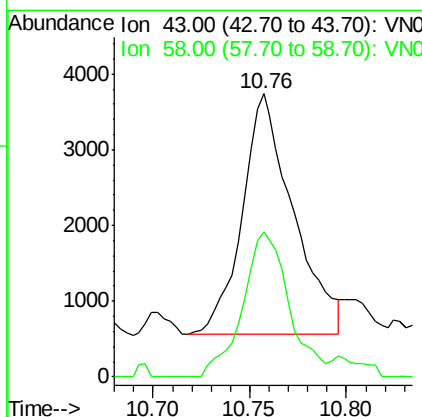
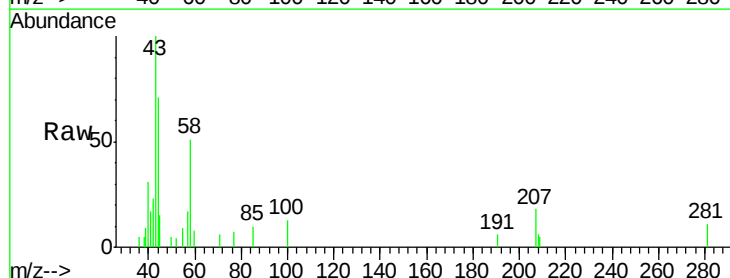
Instrument :
 MSVOA_N
 ClientSampleId :

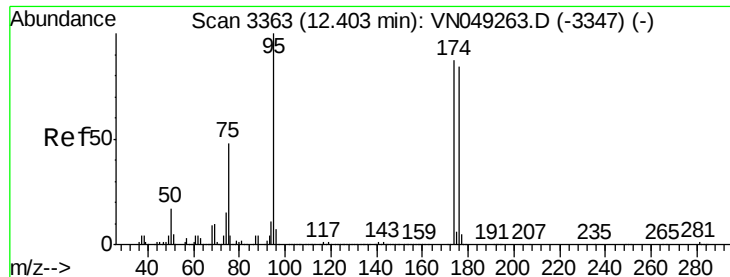
Tot Ion: 63 Resp: 72
 Ion Ratio Lower Upper
 63 100
 106 0.0 19.4 29.2#



#59
 2-Hexanone
 Concen: 0.80 ug/l
 RT: 10.76 min Scan# 2851
 Delta R.T. 0.00 min
 Lab File: VN049443.D
 Acq: 20 Jun 2018 18:21

Tgt Ion: 43 Resp: 5796
 Ion Ratio Lower Upper
 43 100
 58 55.1 25.2 75.6





#62

4-Bromofluorobenzene

Concen: 35.38 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049443.D

Acq: 20 Jun 2018 18:21

Instrument :

MSVOA_N

ClientSampled :

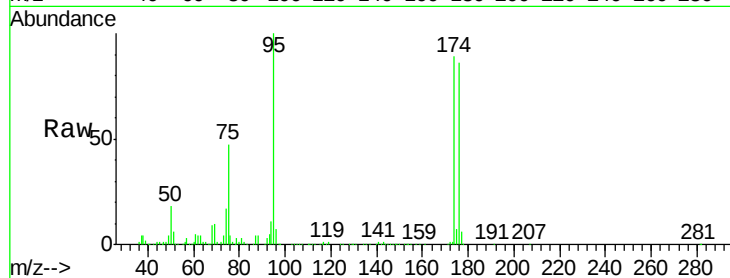
Tot Ion: 95 Resp: 649679

Ion Ratio Lower Upper

95 100

174 89.7 0.0 165.6

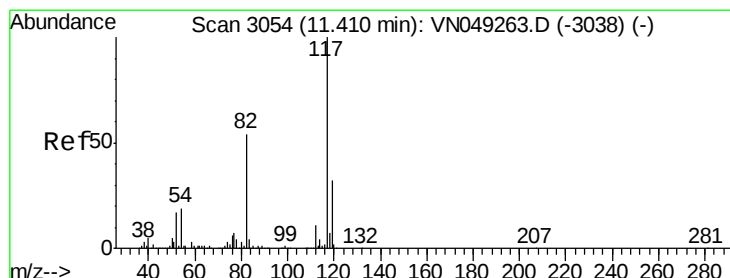
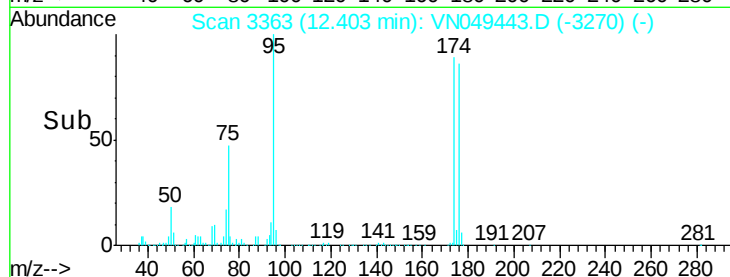
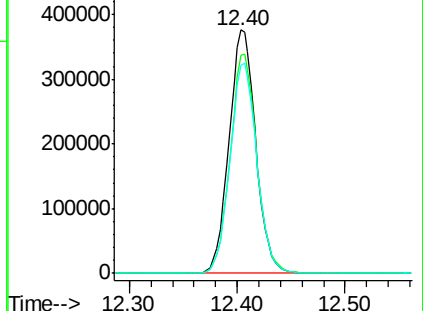
176 86.6 0.0 157.4



Abundance Ion 94.90 (94.60 to 95.60): VN049443.D (-3270) (-)

Ion 173.80 (173.50 to 174.50): VN049443.D (-3270) (-)

Ion 175.80 (175.50 to 176.50): VN049443.D (-3270) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN049443.D

Acq: 20 Jun 2018 18:21

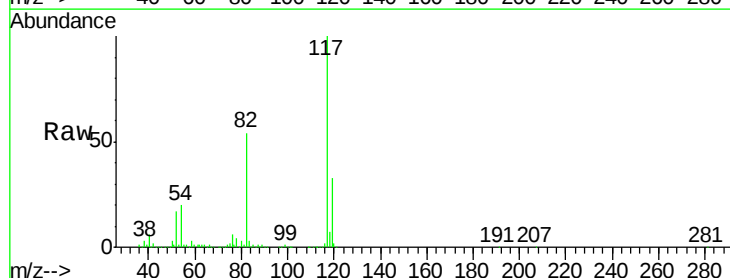
Tgt Ion: 117 Resp: 1477125

Ion Ratio Lower Upper

117 100

82 54.4 45.9 68.9

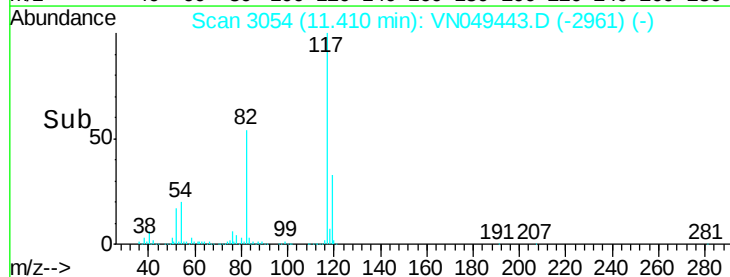
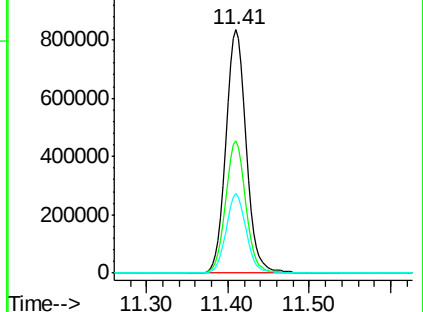
119 32.6 25.5 38.3

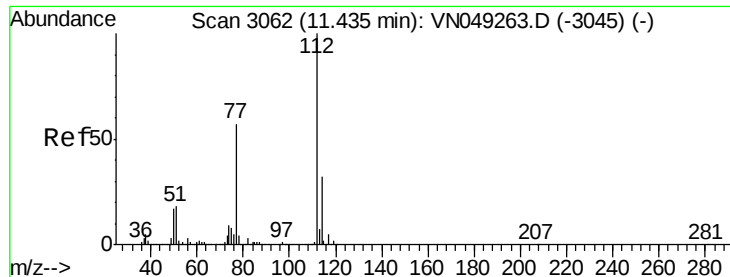


Abundance Ion 116.90 (116.60 to 117.60): VN049443.D (-2961) (-)

Ion 82.00 (81.70 to 82.70): VN049443.D (-2961) (-)

Ion 118.90 (118.60 to 119.60): VN049443.D (-2961) (-)





#65

Chlorobenzene

Concen: 0.25 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN049443.D

Acq: 20 Jun 2018 18:21

Instrument :

MSVOA_N

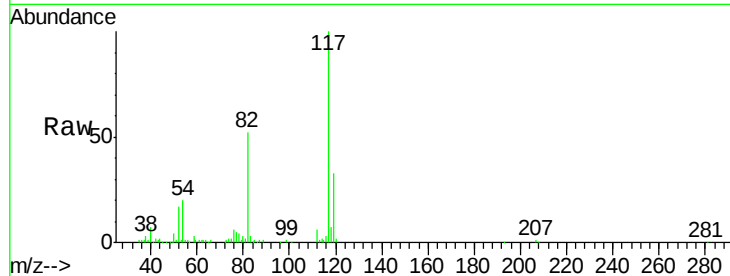
ClientSampleId :

Tot Ion:112 Resp: 9430

Ion Ratio Lower Upper

112 100

114 29.7 26.2 39.4



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.44

6000

5000

4000

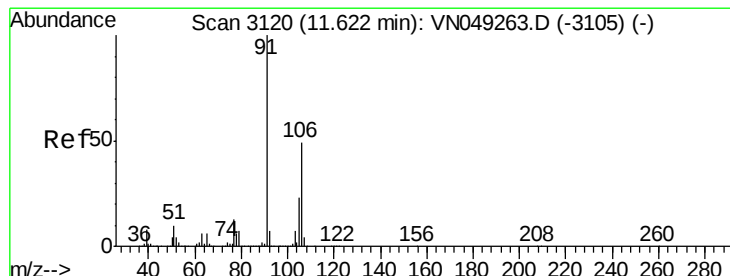
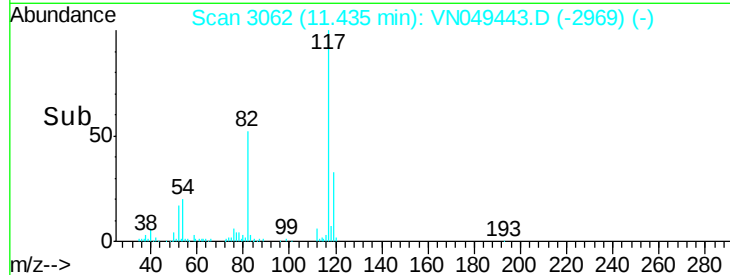
3000

2000

1000

0

Time-->



#68

m/p-Xylenes

Concen: 0.75 ug/l

RT: 11.62 min Scan# 3119

Delta R.T. -0.00 min

Lab File: VN049443.D

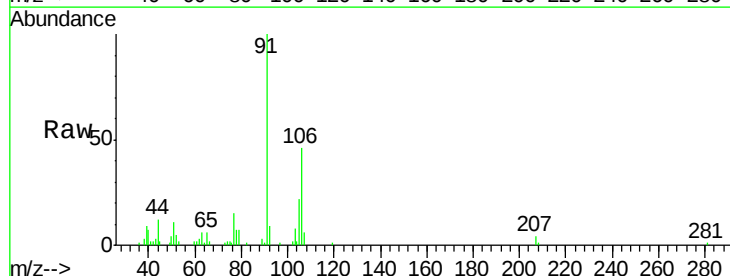
Acq: 20 Jun 2018 18:21

Tgt Ion:106 Resp: 17807

Ion Ratio Lower Upper

106 100

91 209.2 167.3 250.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0

20000

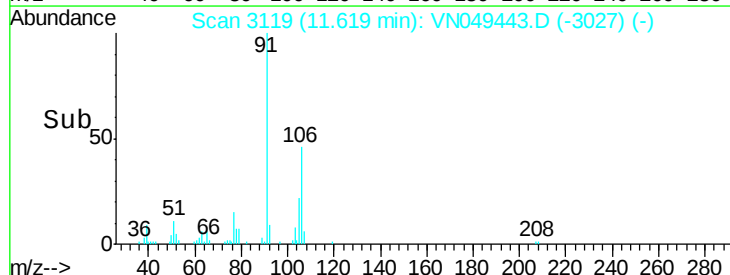
15000

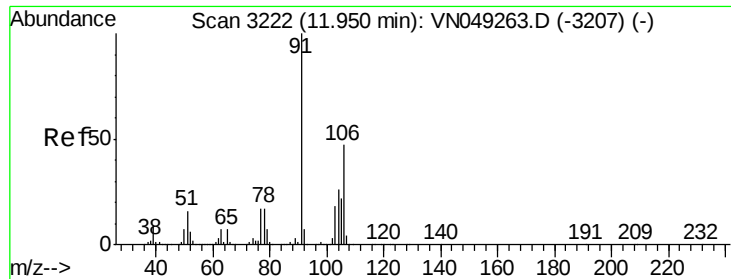
10000

5000

0

Time-->

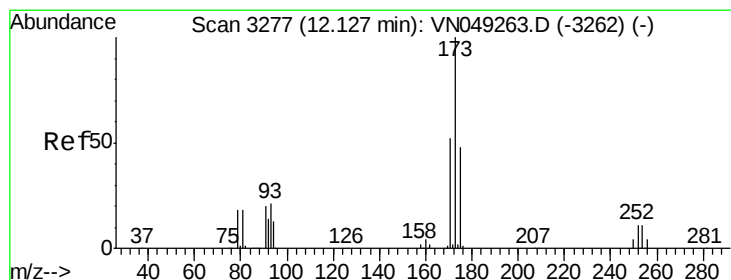
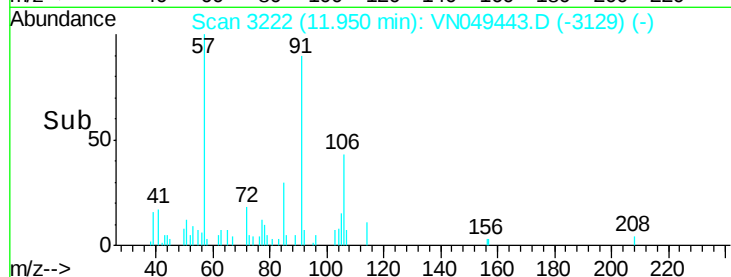
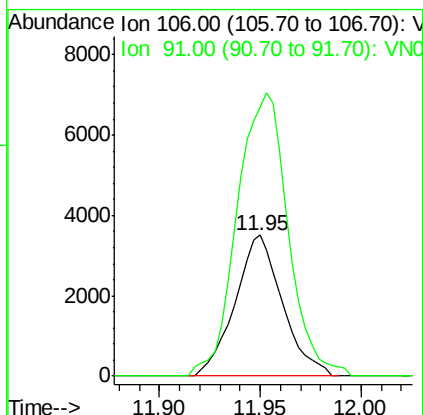
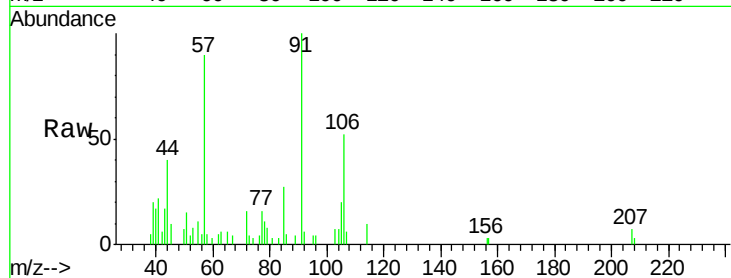




#69
o-Xylene
Concen: 0.25 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN049443.D
Acq: 20 Jun 2018 18:21

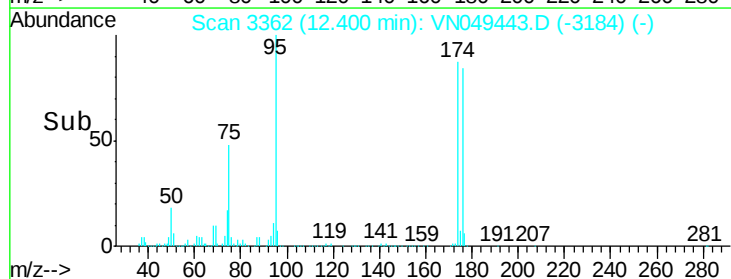
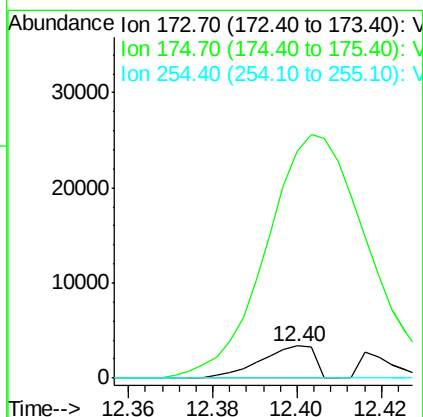
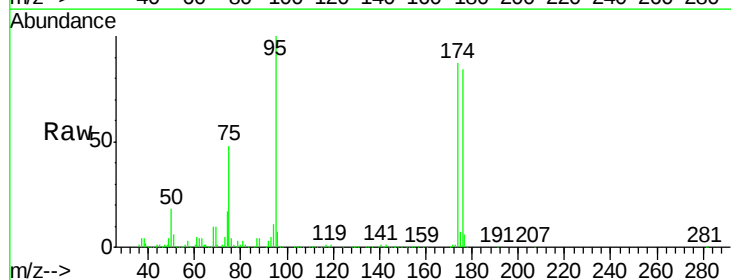
Instrument :
MSVOA_N
ClientSampled :

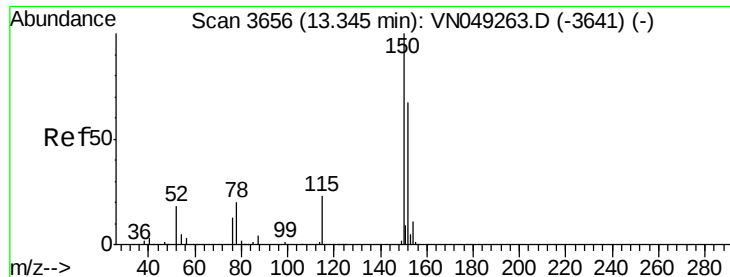
Tot Ion:106 Resp: 5778
Ion Ratio Lower Upper
106 100
91 215.6 111.0 333.0



#71
Bromoform
Concen: 0.32 ug/l
RT: 12.40 min Scan# 3362
Delta R.T. 0.27 min
Lab File: VN049443.D
Acq: 20 Jun 2018 18:21

Tgt Ion:173 Resp: 2994
Ion Ratio Lower Upper
173 100
175 1142.0 24.5 73.5#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3657

Delta R.T. 0.00 min

Lab File: VN049443.D

Acq: 20 Jun 2018 18:21

Instrument :

MSVOA_N

ClientSampled :

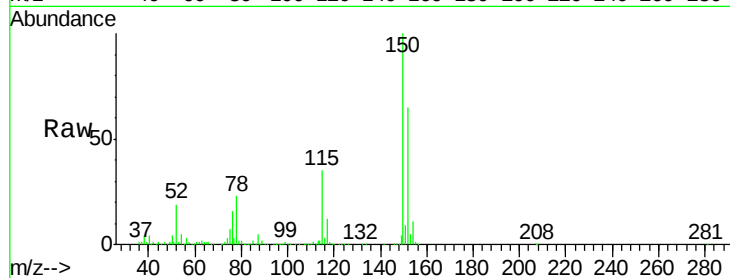
Tot Ion:152 Resp: 504886

Ion Ratio Lower Upper

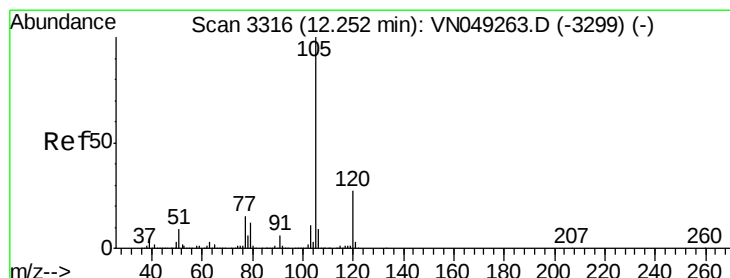
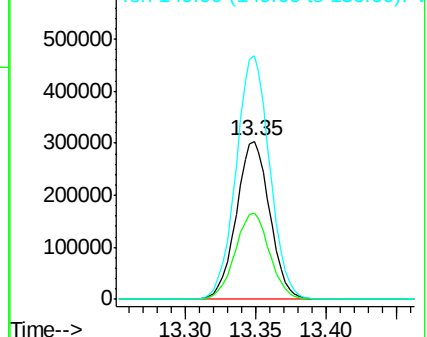
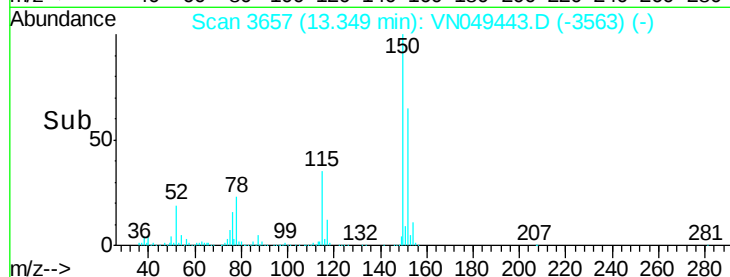
152 100

115 55.8 28.7 86.1

150 154.9 0.0 351.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 0.29 ug/l

RT: 12.25 min Scan# 3316

Delta R.T. 0.00 min

Lab File: VN049443.D

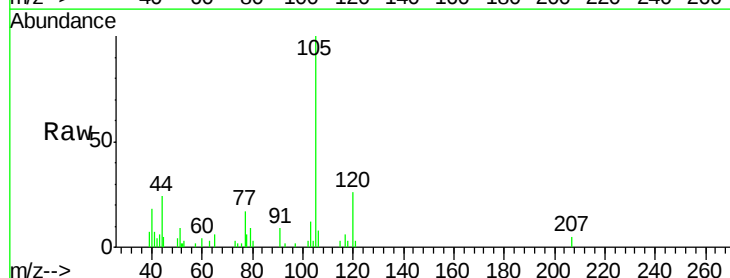
Acq: 20 Jun 2018 18:21

Tgt Ion:105 Resp: 12786

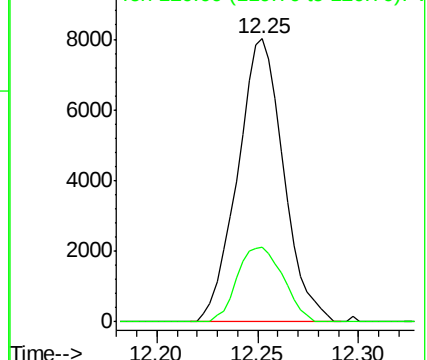
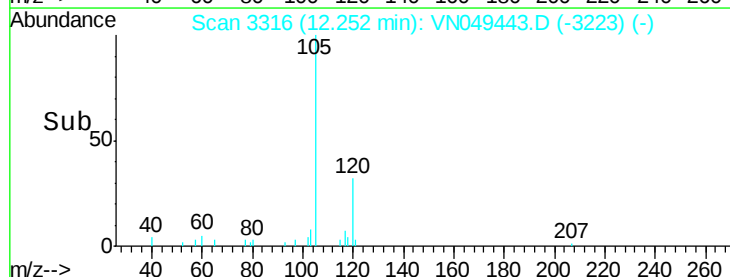
Ion Ratio Lower Upper

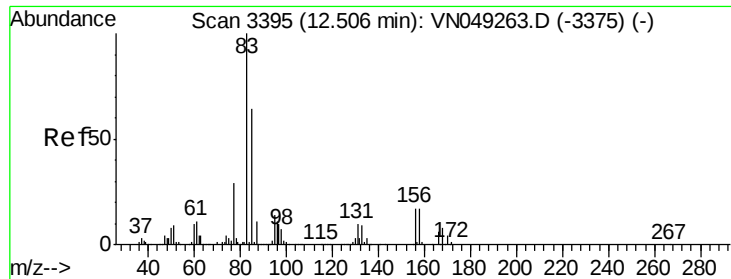
105 100

120 26.3 12.8 38.3



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3393

Delta R.T. -0.01 min

Lab File: VN049443.D

Acq: 20 Jun 2018 18:21

Instrument :

MSVOA_N

ClientSampled :

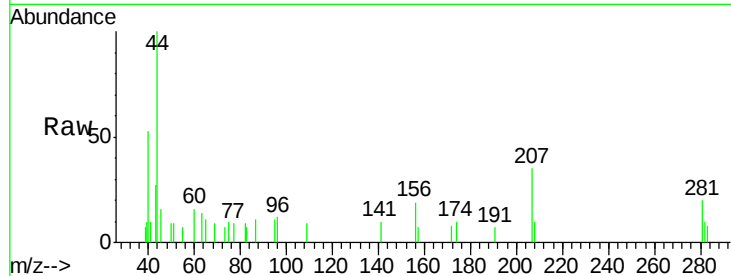
Tot Ion: 83 Resp: 66

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

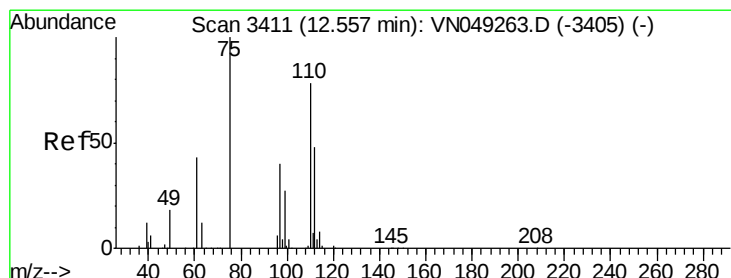
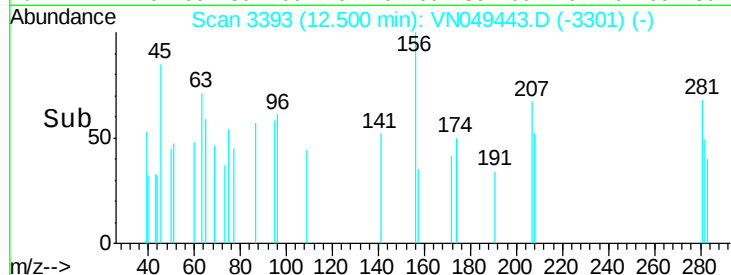
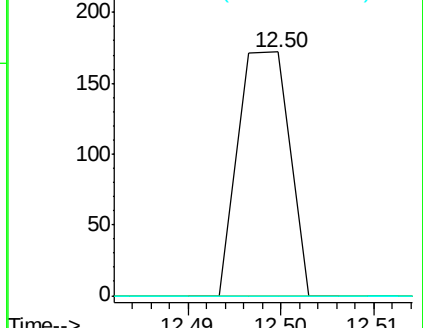
85 0.0 32.0 96.0#



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



#76

1,2,3-Trichloropropane

Concen: 36.10 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049443.D

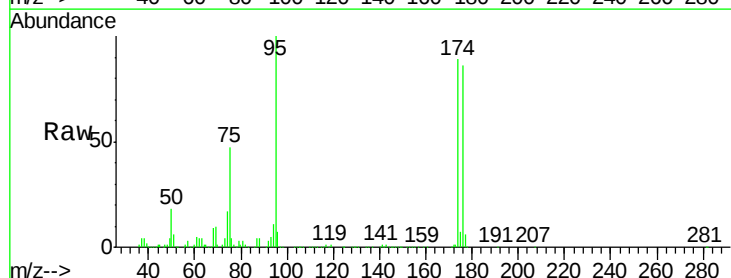
Acq: 20 Jun 2018 18:21

Tgt Ion: 75 Resp: 311027

Ion Ratio Lower Upper

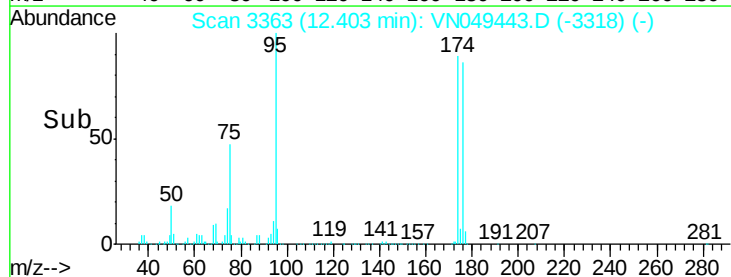
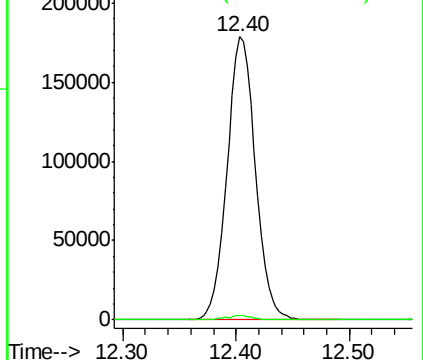
75 100

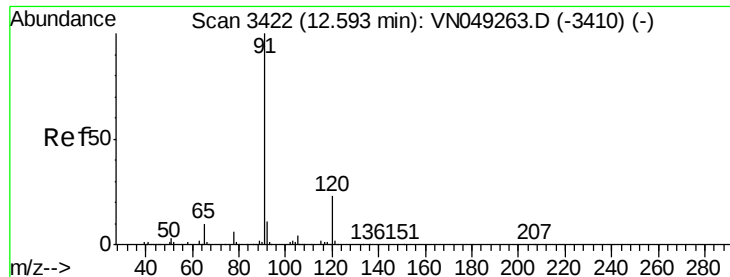
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 77.00 (76.70 to 77.70): VNC





#78

n-propylbenzene

Concen: 0.68 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN049443.D

Acq: 20 Jun 2018 18:21

Instrument :

MSVOA_N

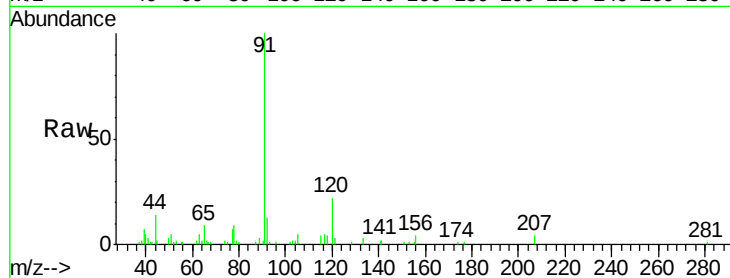
ClientSampleId :

Tot Ion: 91 Resp: 32901

Ion Ratio Lower Upper

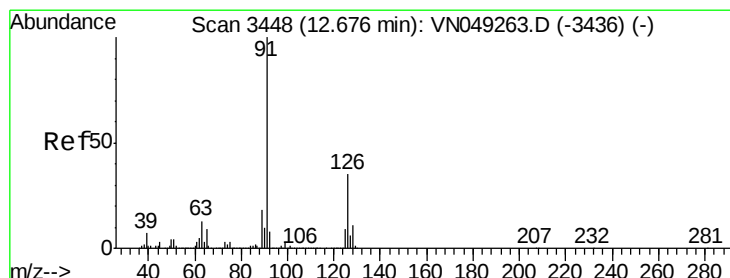
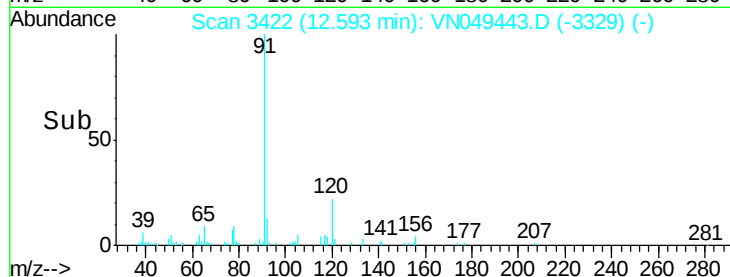
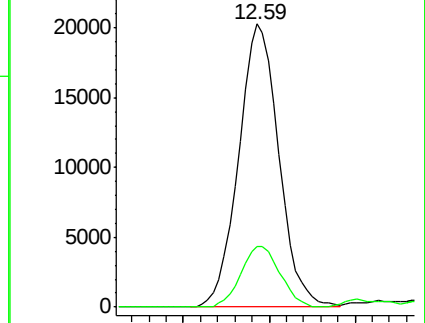
91 100

120 20.9 11.2 33.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 1.07 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. -0.08 min

Lab File: VN049443.D

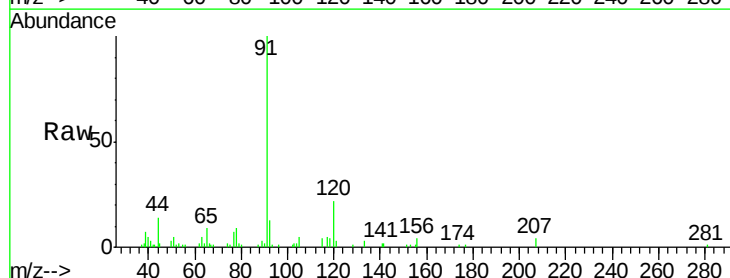
Acq: 20 Jun 2018 18:21

Tgt Ion: 91 Resp: 32901

Ion Ratio Lower Upper

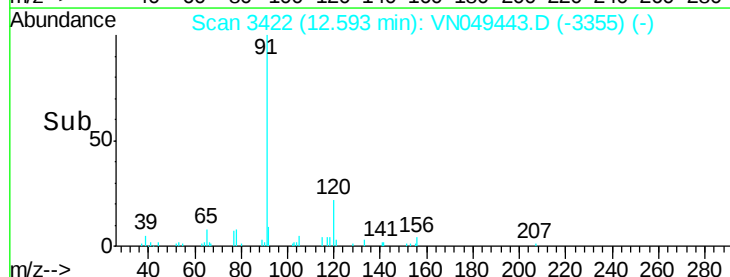
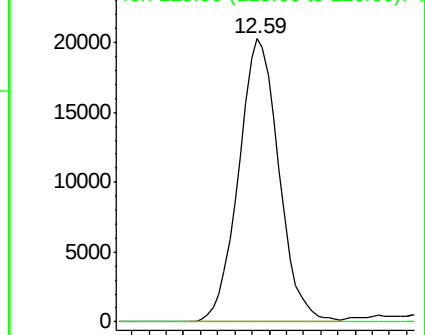
91 100

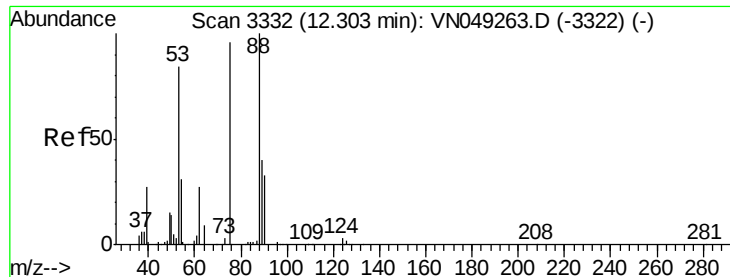
126 0.0 16.6 49.8#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 114.11 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049443.D

Acq: 20 Jun 2018 18:21

Instrument :

MSVOA_N

ClientSampleId :

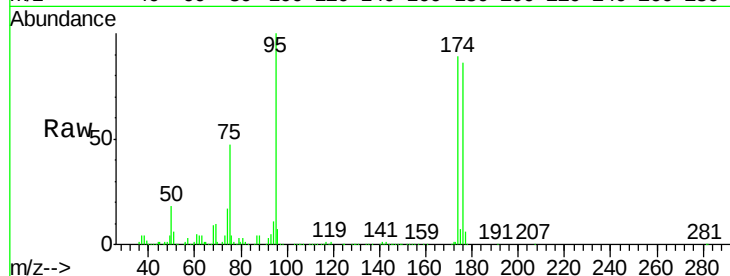
Tot Ion: 75 Resp: 311027

Ion Ratio Lower Upper

75 100

53 0.2 82.7 124.1#

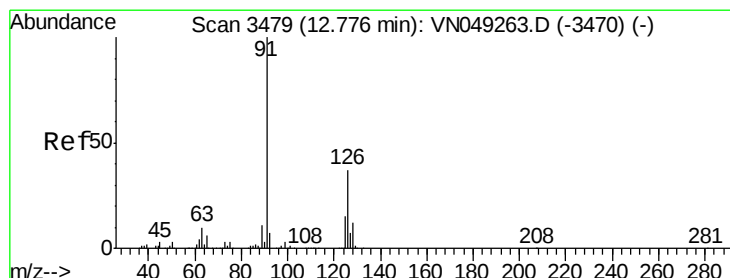
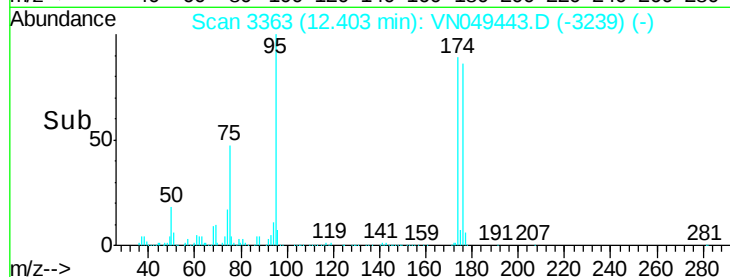
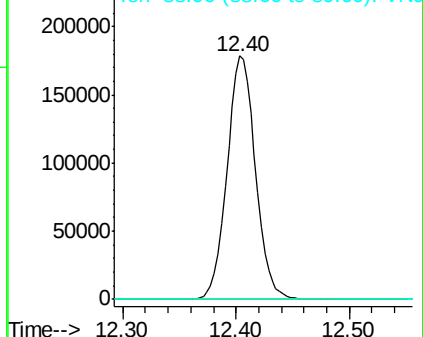
89 0.0 36.5 54.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#82

4-Chlorotoluene

Concen: 1.11 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. -0.18 min

Lab File: VN049443.D

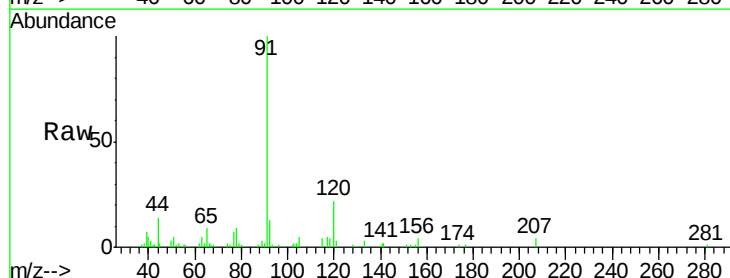
Acq: 20 Jun 2018 18:21

Tgt Ion: 91 Resp: 32901

Ion Ratio Lower Upper

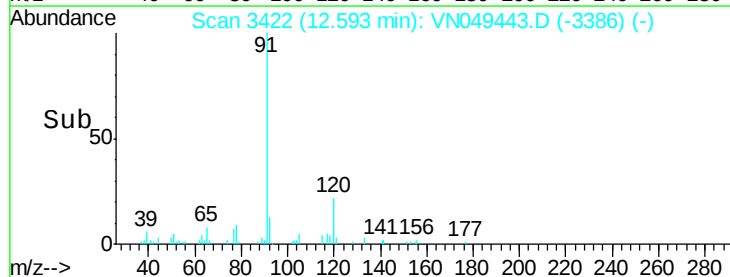
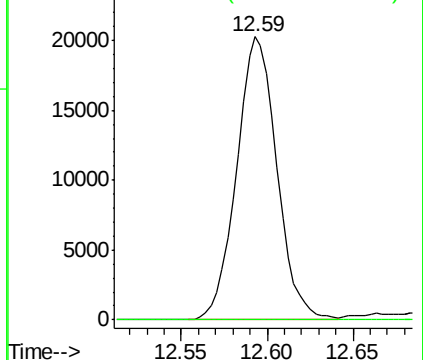
91 100

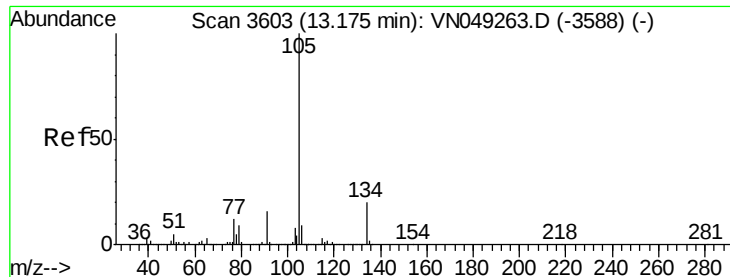
126 0.0 16.4 49.1#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#85

sec-Butylbenzene

Concen: 0.45 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN049443.D

Acq: 20 Jun 2018 18:21

Instrument :

MSVOA_N

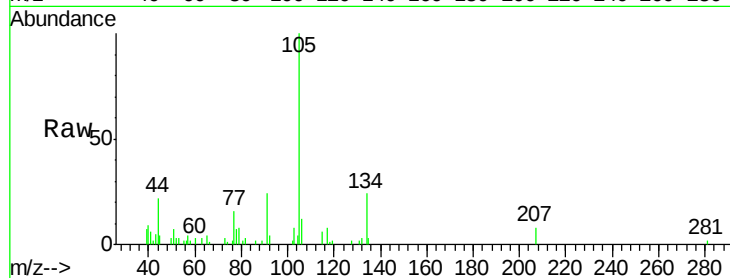
ClientSampleId :

Tot Ion:105 Resp: 18563

Ion Ratio Lower Upper

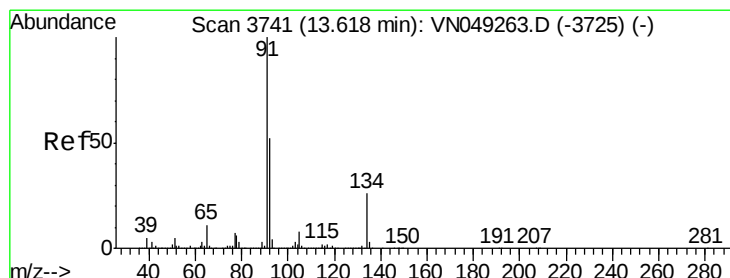
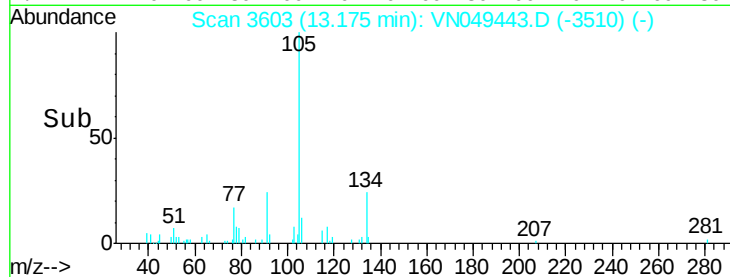
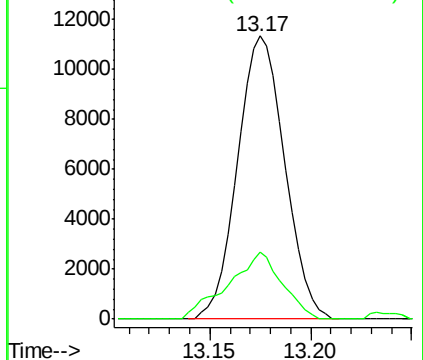
105 100

134 26.9 9.8 29.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#89

n-Butylbenzene

Concen: 0.23 ug/l

RT: 13.62 min Scan# 3740

Delta R.T. -0.00 min

Lab File: VN049443.D

Acq: 20 Jun 2018 18:21

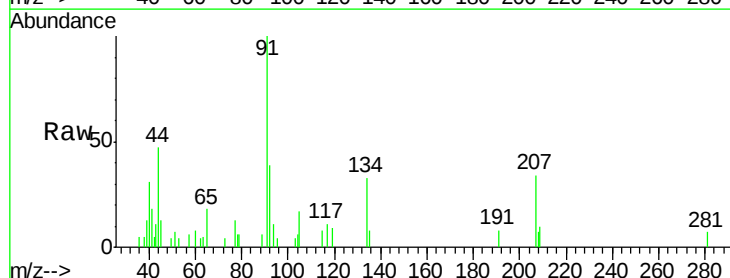
Tgt Ion: 91 Resp: 6152

Ion Ratio Lower Upper

91 100

92 39.4 25.1 75.4

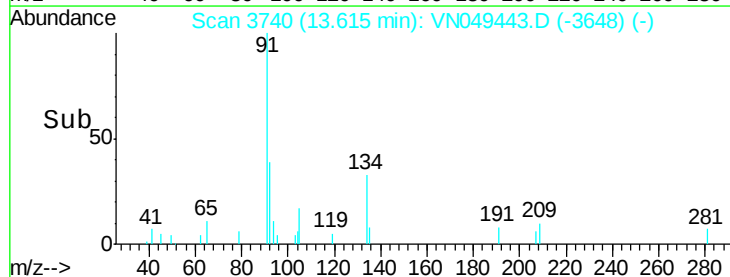
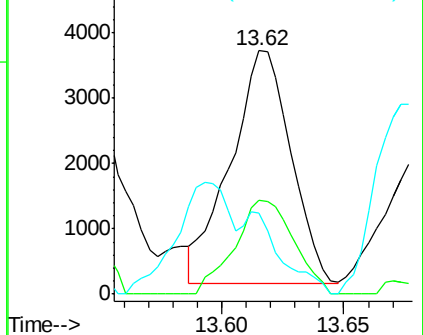
134 0.0 12.0 36.0#

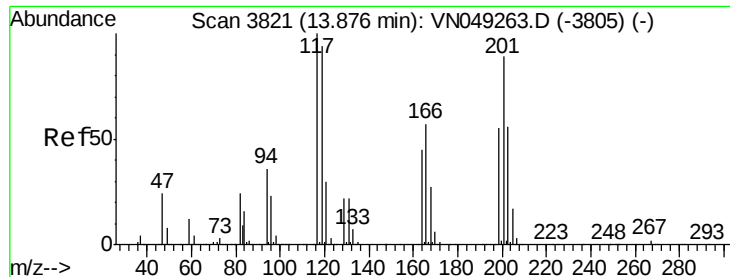


Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0

Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: Below Cal

RT: 13.89 min Scan# 3826

Delta R.T. 0.02 min

Lab File: VN049443.D

Acq: 20 Jun 2018 18:21

Instrument :

MSVOA_N

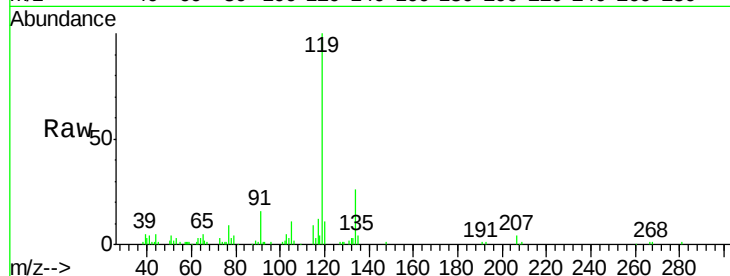
ClientSampled :

Tot Ion:117 Resp: 7985

Ion Ratio Lower Upper

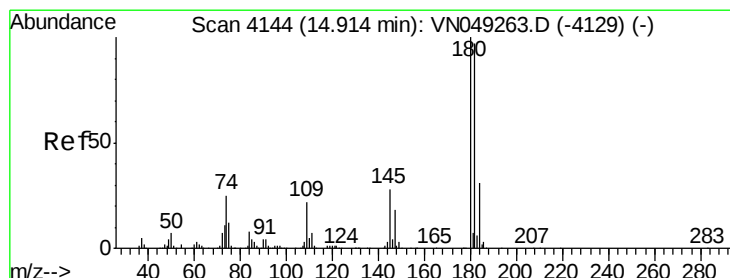
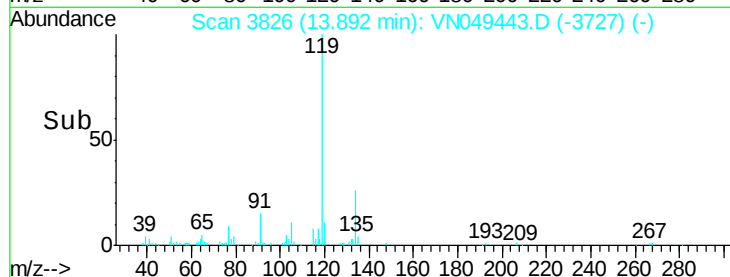
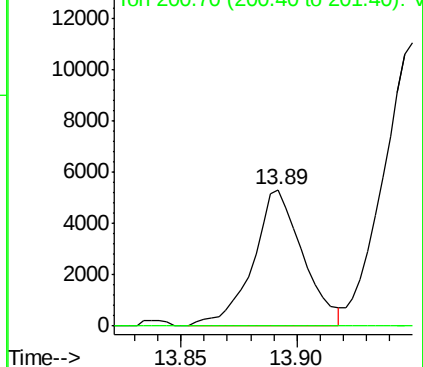
117 100

201 0.0 40.1 120.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#93

1,2,4-Trichlorobenzene

Concen: 4.83 ug/l

RT: 14.91 min Scan# 4142

Delta R.T. -0.01 min

Lab File: VN049443.D

Acq: 20 Jun 2018 18:21

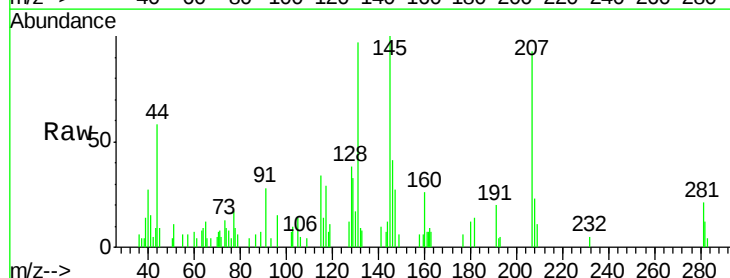
Tgt Ion:180 Resp: 820

Ion Ratio Lower Upper

180 100

182 54.0 46.9 140.8

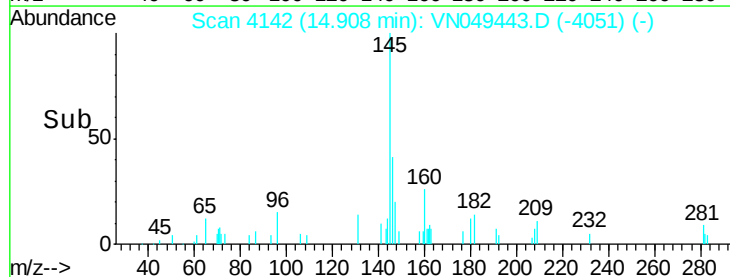
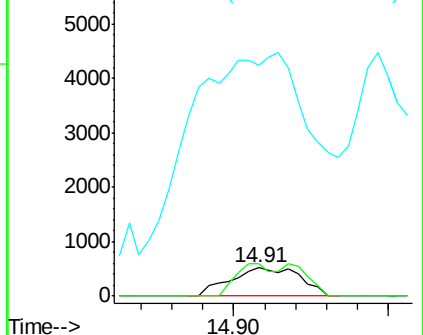
145 1437.0 14.7 44.1#

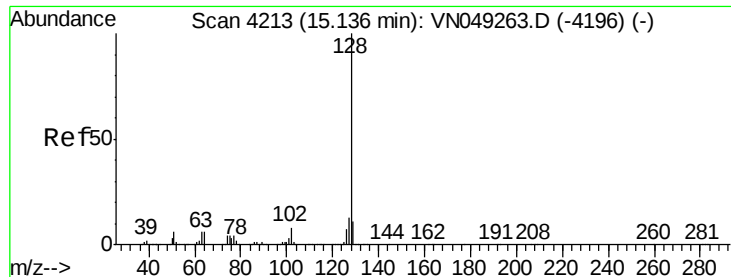


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 6.46 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

Lab File: VN049443.D

Acq: 20 Jun 2018 18:21

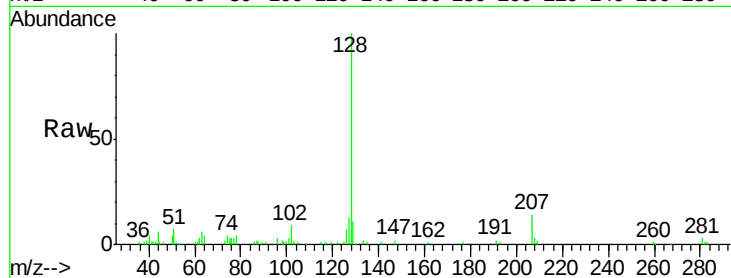
Instrument :

MSVOA_N

ClientSampled :

Tot Ion:128 Resp: 62020

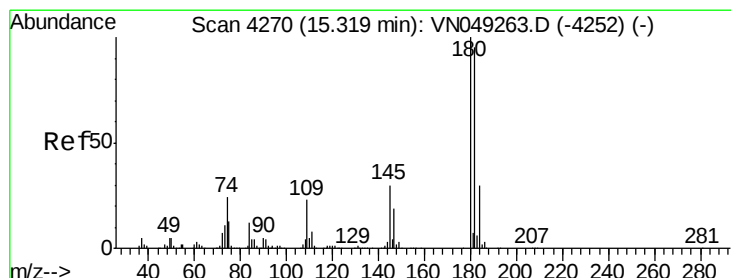
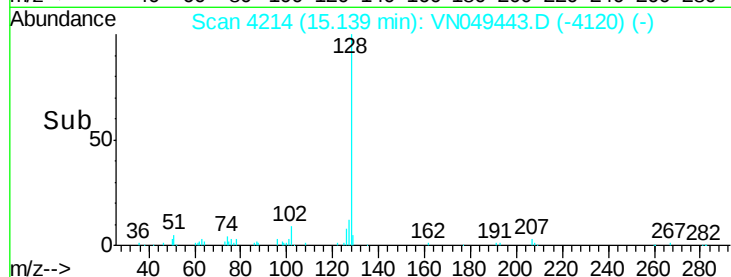
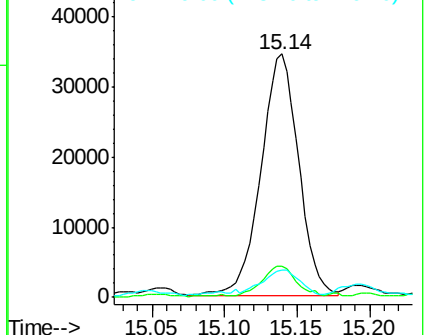
Ion	Ratio	Lower	Upper
128	100		
127	11.4	10.6	16.0
129	10.0	8.5	12.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 3.56 ug/l

RT: 15.32 min Scan# 4270

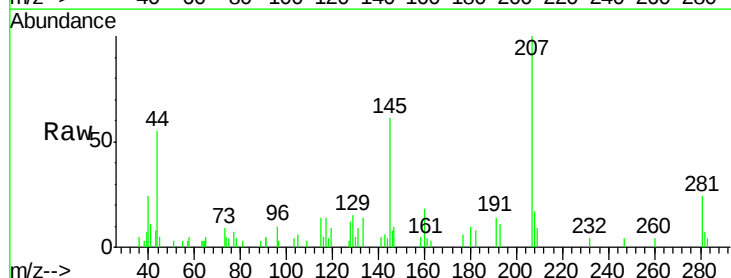
Delta R.T. 0.00 min

Lab File: VN049443.D

Acq: 20 Jun 2018 18:21

Tgt Ion:180 Resp: 929

Ion	Ratio	Lower	Upper
180	100		
182	59.0	47.3	141.8
145	0.0	15.6	46.7#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

