

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061418\
 Data File : VN049242.D
 Acq On : 14 Jun 2018 21:25
 Operator : MD\SY
 Sample : J3447-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 15 04:08:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061318W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 14 05:15:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	619744	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1185477	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1200566	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	345585	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	454095	45.38	ug/l	0.00
Spiked Amount			Recovery	=	90.76%	
35) Dibromofluoromethane	7.59	113	399131	40.68	ug/l	0.00
Spiked Amount			Recovery	=	81.36%	
50) Toluene-d8	10.09	98	1503862	39.40	ug/l	0.00
Spiked Amount			Recovery	=	78.80%	
62) 4-Bromofluorobenzene	12.41	95	480517	37.93	ug/l	0.00
Spiked Amount			Recovery	=	75.86%	

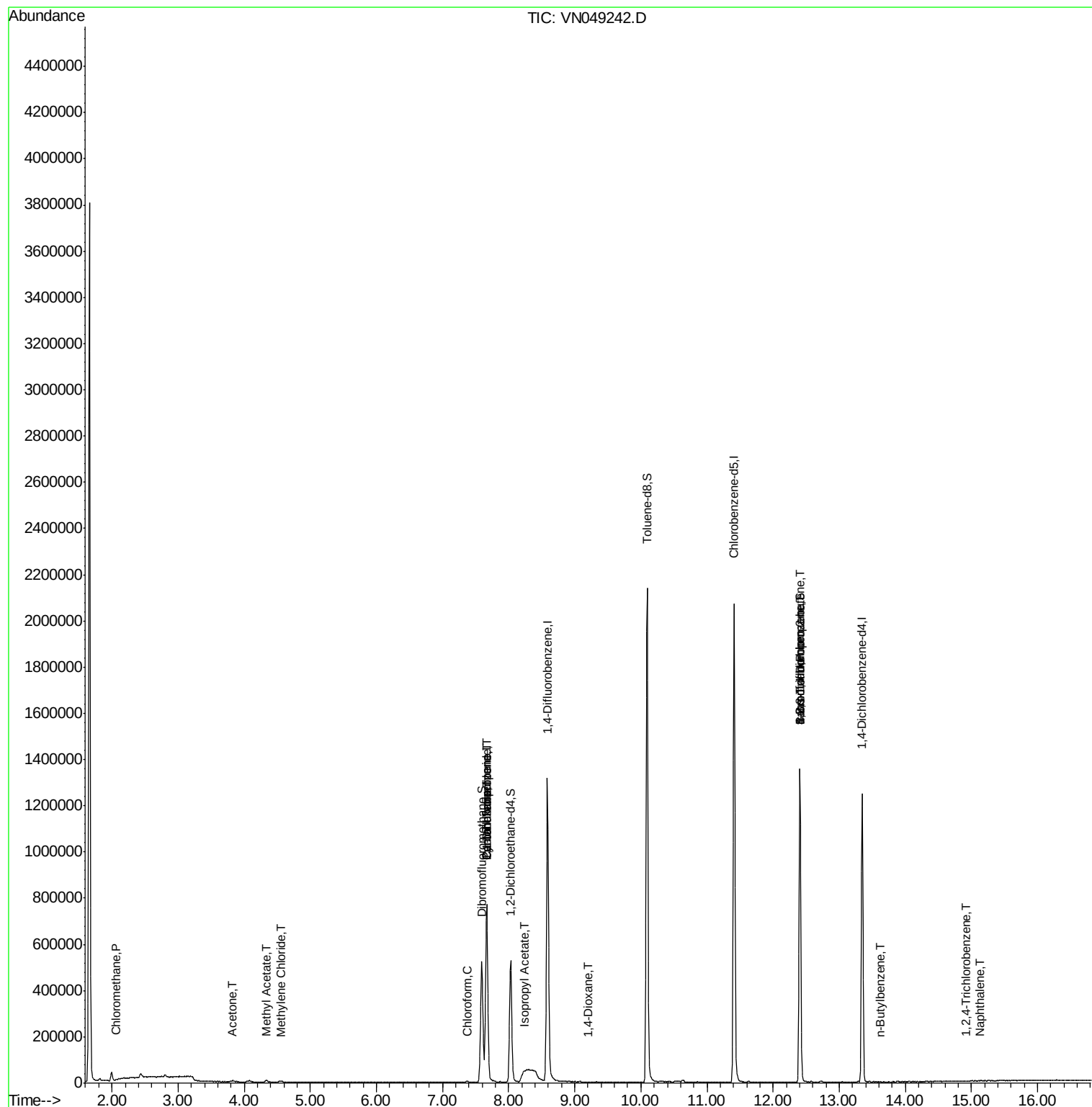
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2439	0.27	ug/l #	86
16) Acetone	3.82	43	10498	4.39	ug/l #	88
18) Methyl Acetate	4.34	43	16623	0.24	ug/l #	74
20) Methylene Chloride	4.56	84	2210	0.23	ug/l #	62
30) Chloroform	7.37	83	5292	0.32	ug/l #	81
31) Cyclohexane	7.66	56	14544	0.62	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	49805	3.36	ug/l #	50
38) Carbon Tetrachloride	7.67	117	60402	4.05	ug/l #	18
43) Isopropyl Acetate	8.23	43	47202	2.75	ug/l #	66
49) 1,4-Dioxane	9.20	88	62	0.63	ug/l #	1
71) Bromoform	12.41	173	4370	0.59	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.50	83	66	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.41	75	244522	42.37	ug/l #	100
77) Bromobenzene	12.53	156	83	Below Cal	#	66
81) trans-1,4-Dichloro-2-buten	12.41	75	244522	118.22	ug/l #	9
89) n-Butylbenzene	13.62	91	410	1.57	ug/l #	81
90) Hexachloroethane	13.99	117	283	Below Cal	#	9
93) 1,2,4-Trichlorobenzene	14.91	180	114	4.40	ug/l #	22
95) Naphthalene	15.14	128	1156	5.50	ug/l #	69

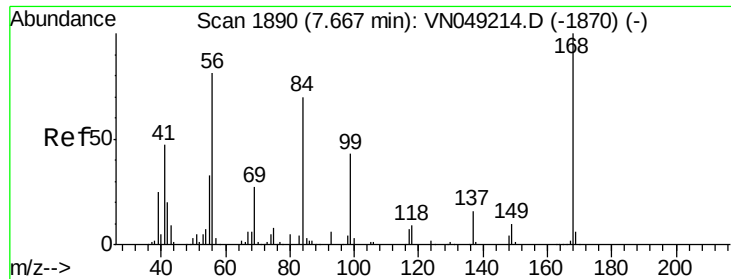
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jun 14 05:15:23 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049242.D

Acq: 14 Jun 2018 21:25

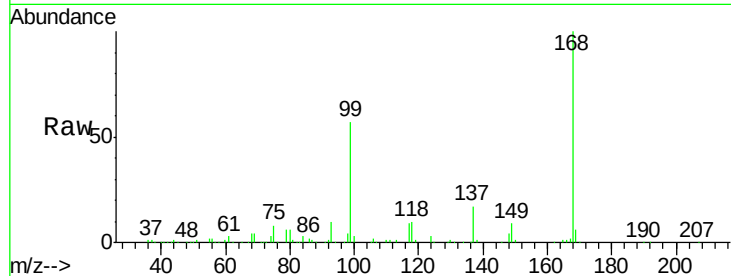
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 619744

Ion Ratio Lower Upper

168 100

99 56.9 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

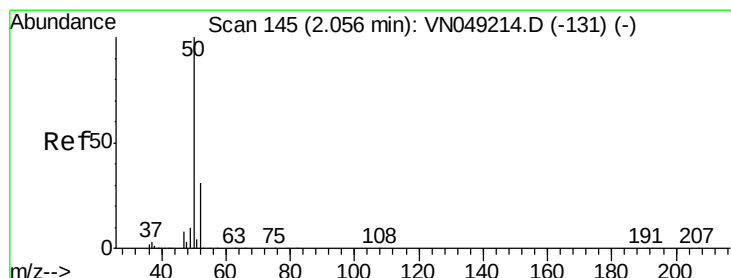
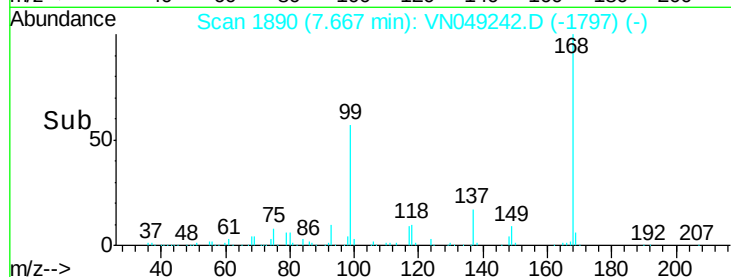
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.27 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN049242.D

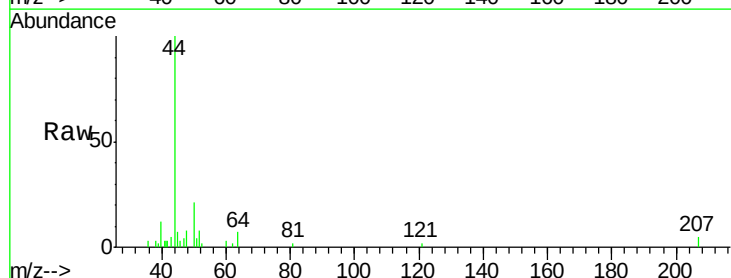
Acq: 14 Jun 2018 21:25

Tgt Ion: 50 Resp: 2439

Ion Ratio Lower Upper

50 100

52 39.2 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.06

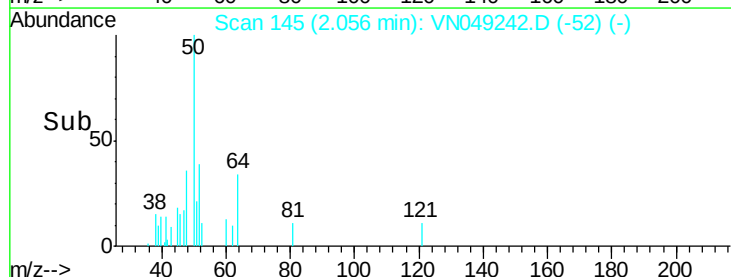
1500

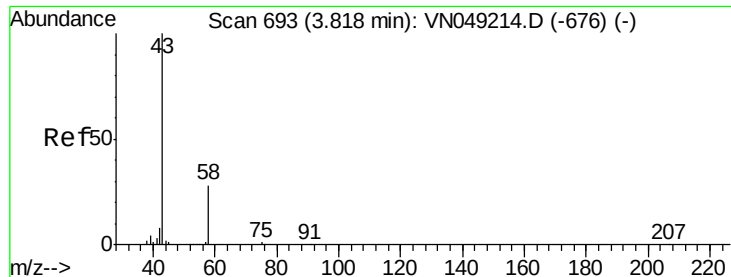
1000

500

0

Time-->





#16

Acetone

Concen: 4.39 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.01 min

Lab File: VN049242.D

Acq: 14 Jun 2018 21:25

Instrument :

MSVOA_N

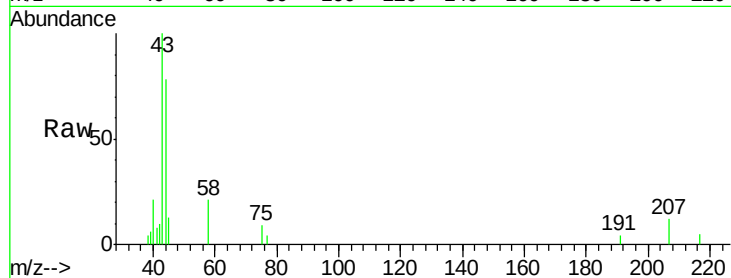
ClientSampleId :

Tot Ion: 43 Resp: 10498

Ion Ratio Lower Upper

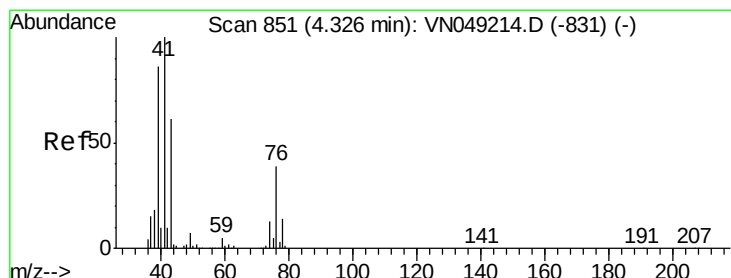
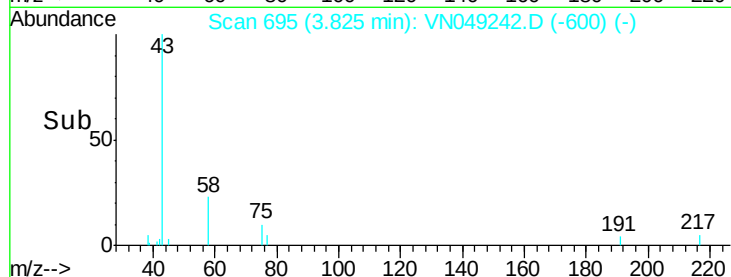
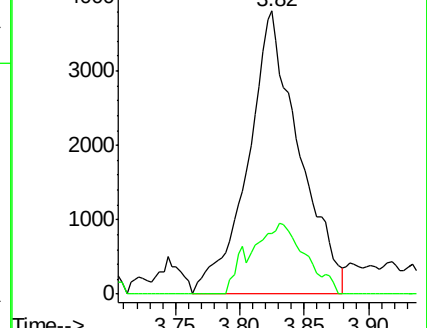
43 100

58 21.4 22.4 33.6#



Abundance Ion 43.00 (42.70 to 43.70): VN049242.D (-600) (-)

Ion 58.00 (57.70 to 58.70): VN049242.D (-600) (-)



#18

Methyl Acetate

Concen: 0.24 ug/l

RT: 4.34 min Scan# 856

Delta R.T. 0.02 min

Lab File: VN049242.D

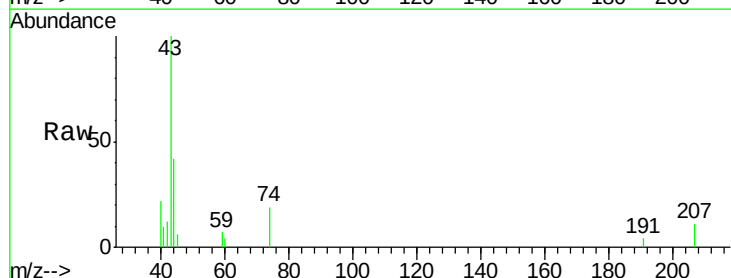
Acq: 14 Jun 2018 21:25

Tgt Ion: 43 Resp: 16623

Ion Ratio Lower Upper

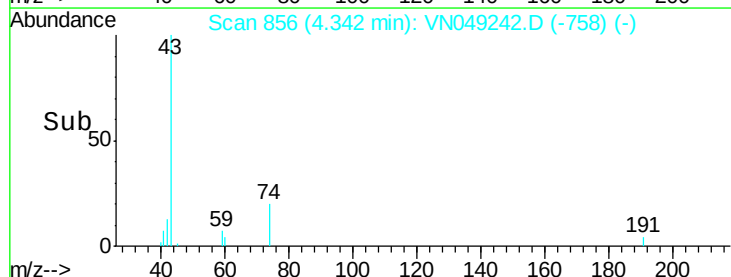
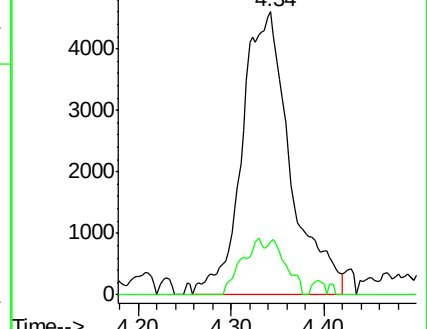
43 100

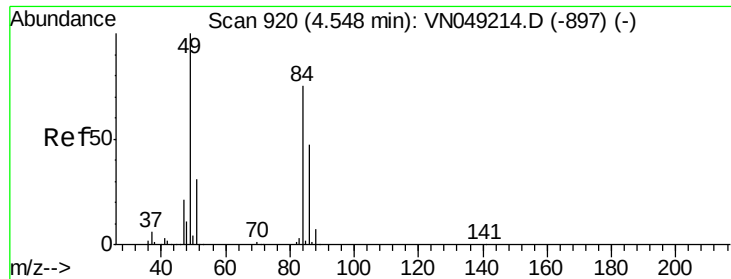
74 9.3 17.4 26.0#



Abundance Ion 43.00 (42.70 to 43.70): VN049242.D (-758) (-)

Ion 74.00 (73.70 to 74.70): VN049242.D (-758) (-)

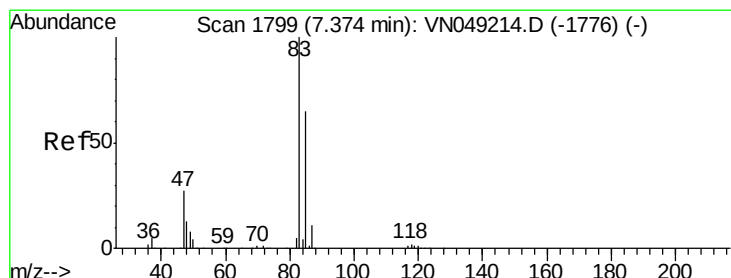
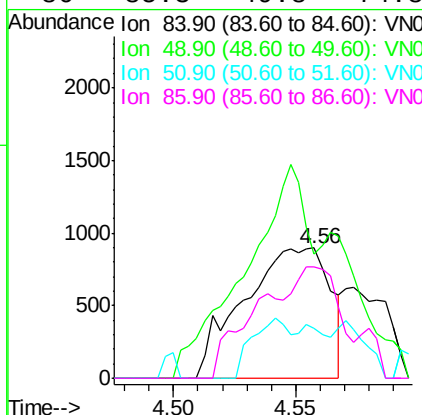
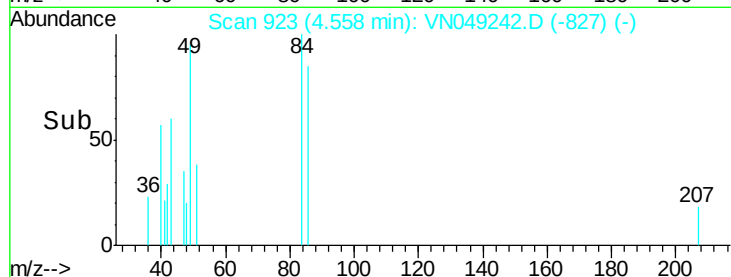
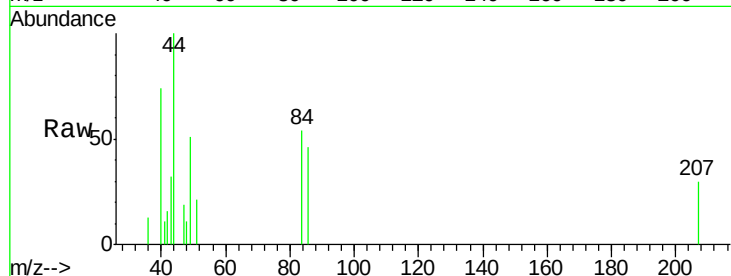




#20
Methylene Chloride
Concen: 0.23 ug/l
RT: 4.56 min Scan# 923
Delta R.T. 0.01 min
Lab File: VN049242.D
Acq: 14 Jun 2018 21:25

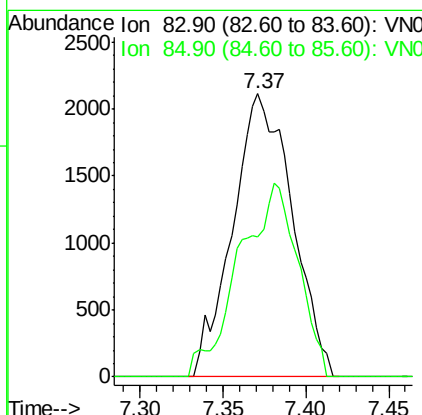
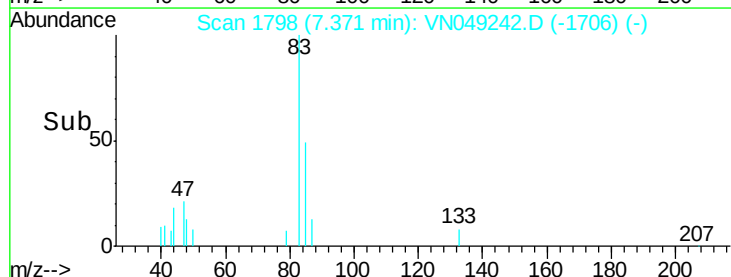
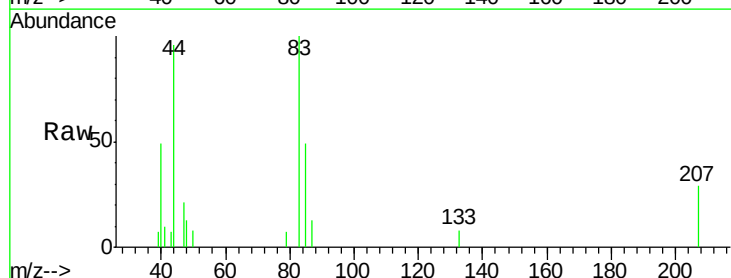
Instrument :
MSVOA_N
ClientSampled :

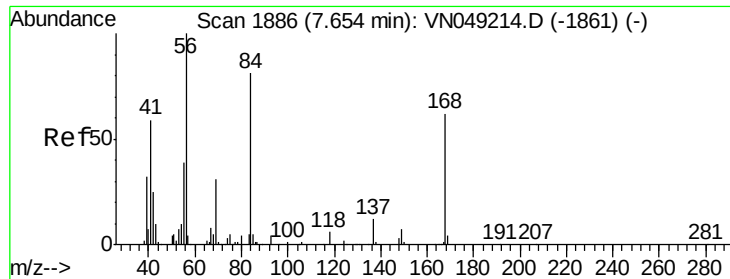
Tot Ion: 84 Resp: 2210
Ion Ratio Lower Upper
84 100
49 70.7 106.9 160.3#
51 38.5 32.7 49.1
86 85.3 49.8 74.8#



#30
Chloroform
Concen: 0.32 ug/l
RT: 7.37 min Scan# 1798
Delta R.T. -0.00 min
Lab File: VN049242.D
Acq: 14 Jun 2018 21:25

Tgt Ion: 83 Resp: 5292
Ion Ratio Lower Upper
83 100
85 49.3 51.7 77.5#

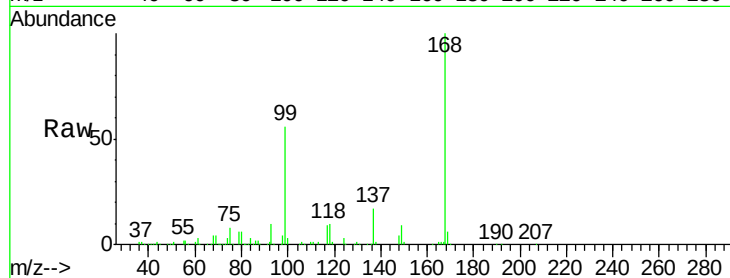




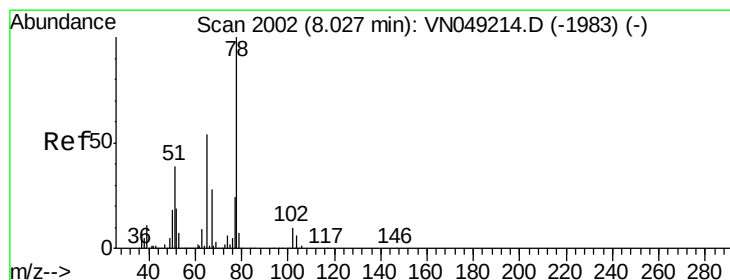
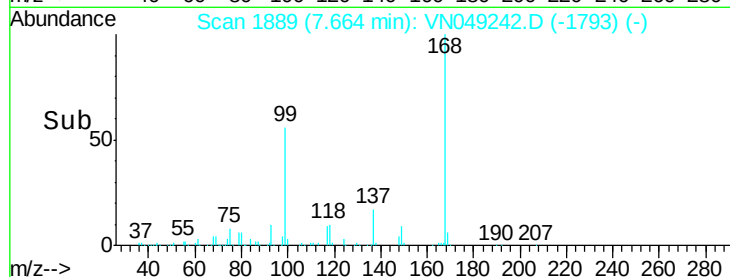
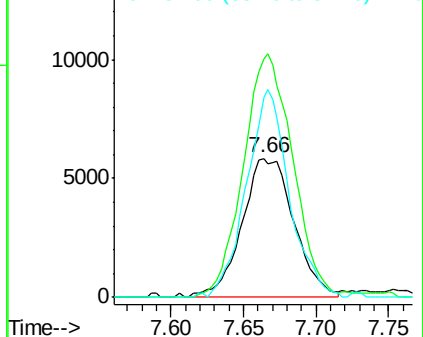
#31
Cyclohexane
Concen: 0.62 ug/l
RT: 7.66 min Scan# 1889
Delta R.T. 0.01 min
Lab File: VN049242.D
Acq: 14 Jun 2018 21:25

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 14544
Ion Ratio Lower Upper
56 100
69 172.2 25.0 37.4#
84 144.4 64.6 96.8#

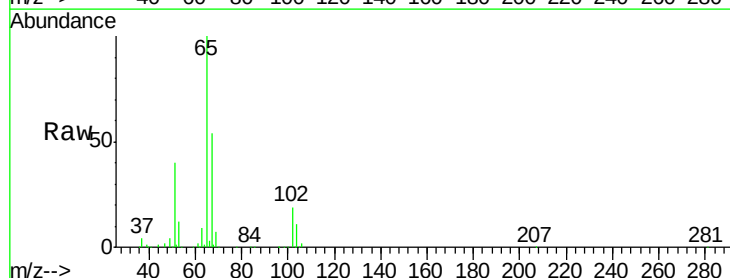


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

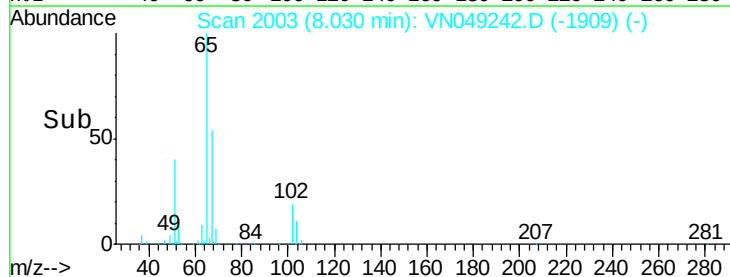
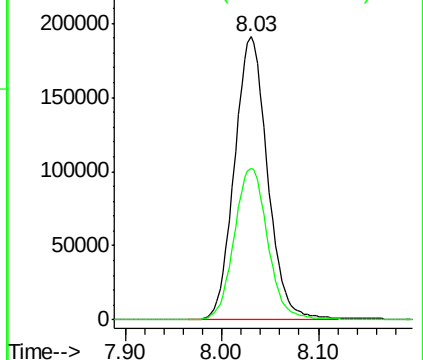


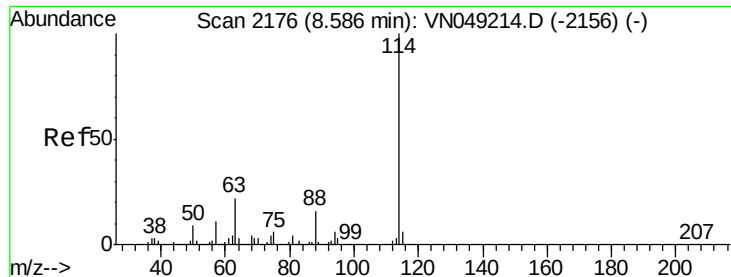
#33
1,2-Dichloroethane-d4
Concen: 45.38 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049242.D
Acq: 14 Jun 2018 21:25

Tgt Ion: 65 Resp: 454095
Ion Ratio Lower Upper
65 100
67 54.4 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. 0.00 min

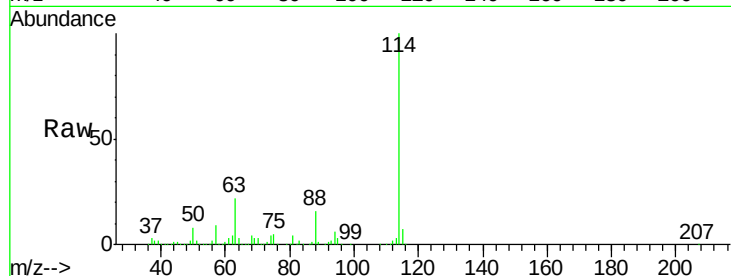
Lab File: VN049242.D

Acq: 14 Jun 2018 21:25

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 1185477

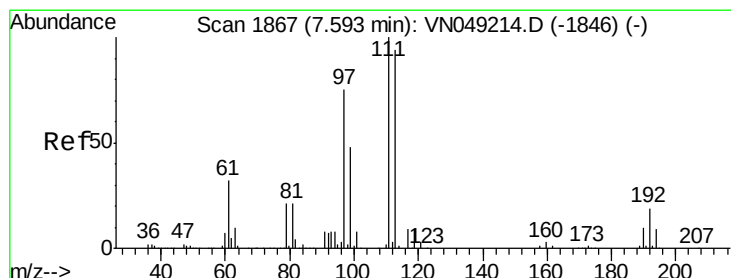
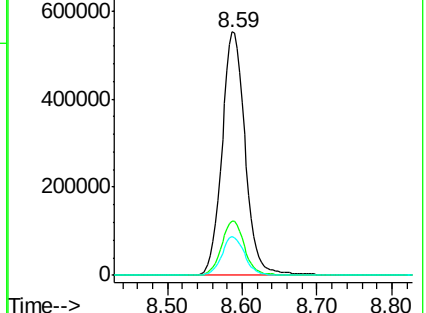
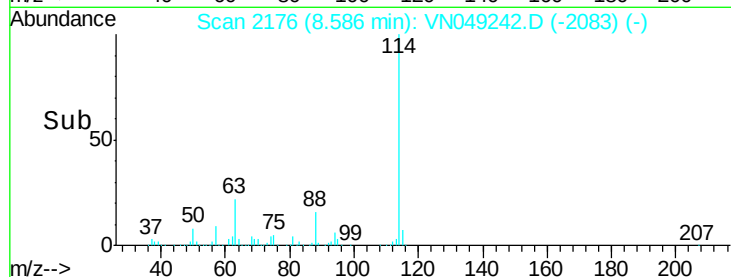
Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	44.4
88	16.0	0.0	31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 40.68 ug/l

RT: 7.59 min Scan# 1867

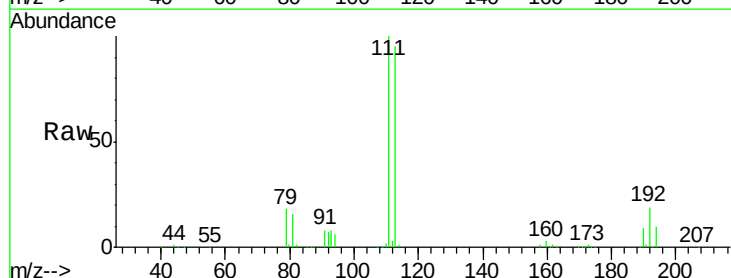
Delta R.T. 0.00 min

Lab File: VN049242.D

Acq: 14 Jun 2018 21:25

Tgt Ion:113 Resp: 399131

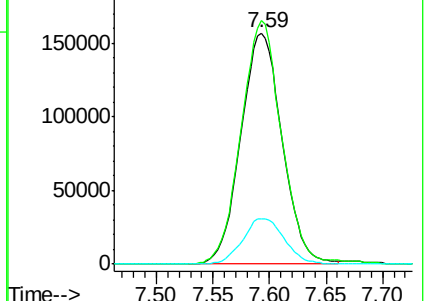
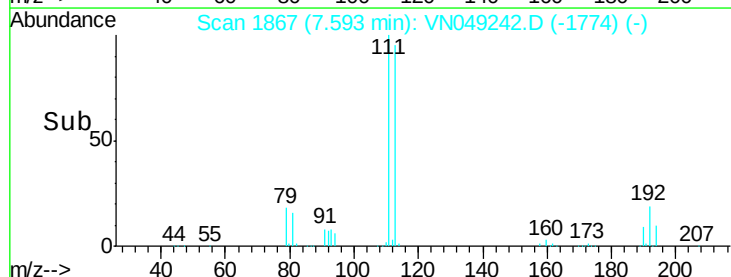
Ion	Ratio	Lower	Upper
113	100		
111	103.9	82.4	123.6
192	20.1	15.0	22.6

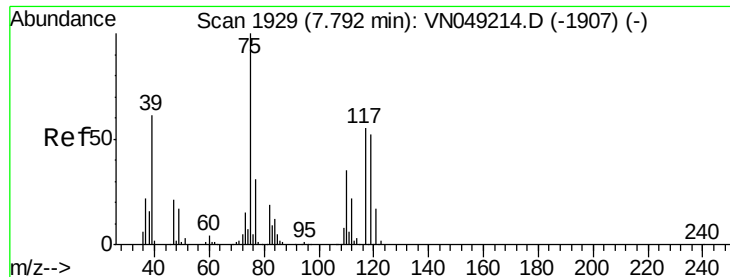


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

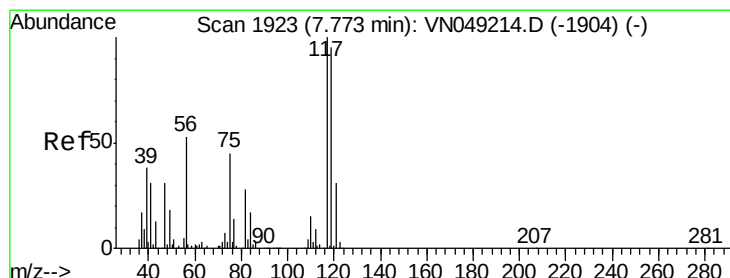
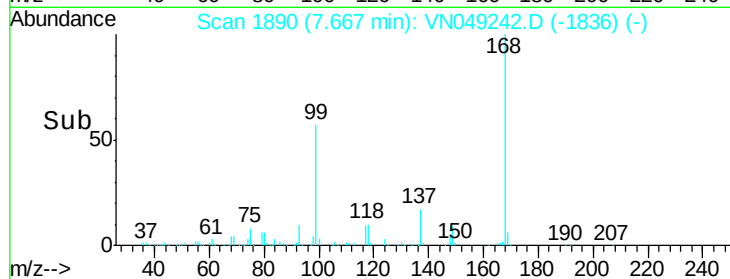
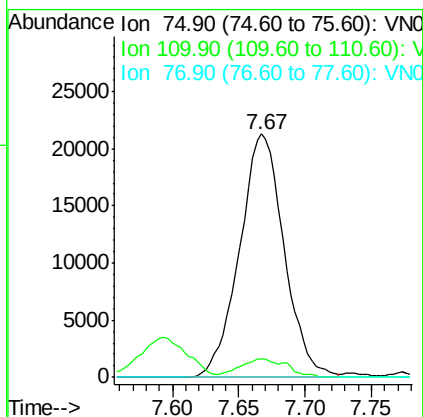
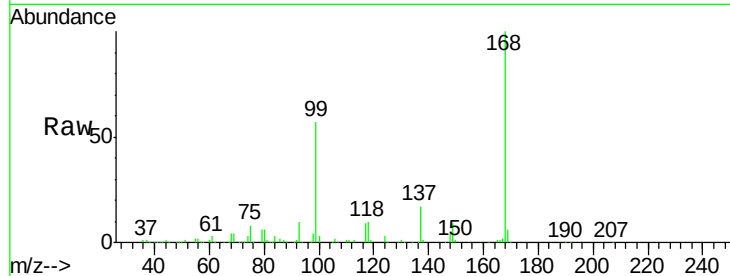




#36
 1,1-Dichloropropene
 Concen: 3.36 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049242.D
 Acq: 14 Jun 2018 21:25

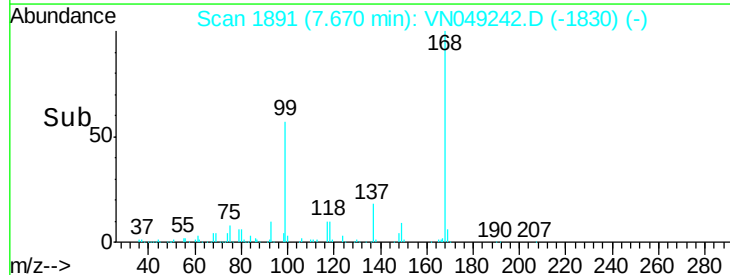
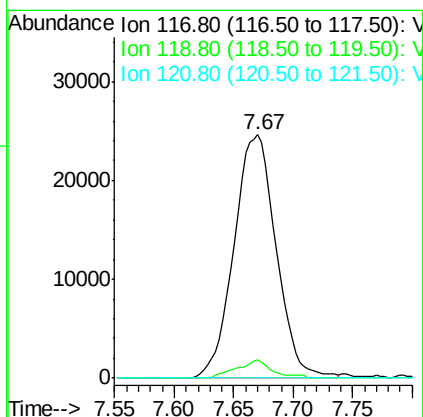
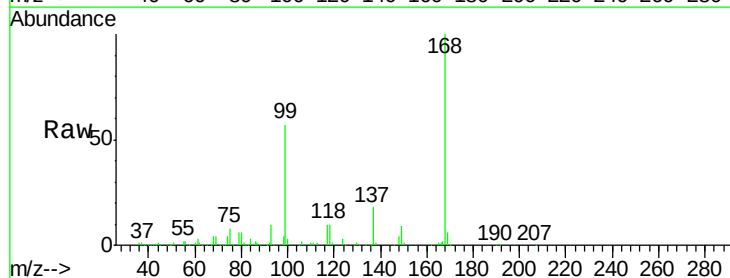
Instrument :
 MSVOA_N
 ClientSampled :

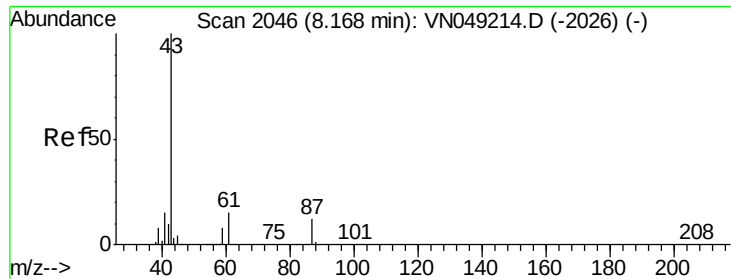
Tot Ion	75	Resp	49805
Ion Ratio	100	Lower	Upper
75	100		
110	8.1	17.0	50.9#
77	0.0	24.4	36.6#



#38
 Carbon Tetrachloride
 Concen: 4.05 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.10 min
 Lab File: VN049242.D
 Acq: 14 Jun 2018 21:25

Tgt Ion	117	Resp	60402
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	7.4	75.6	113.4#
121	0.0	24.7	37.1#





#43

Isopropyl Acetate

Concen: 2.75 ug/l

RT: 8.23 min Scan# 2065

Delta R.T. 0.06 min

Lab File: VN049242.D

Acq: 14 Jun 2018 21:25

Instrument :

MSVOA_N

ClientSampleId :

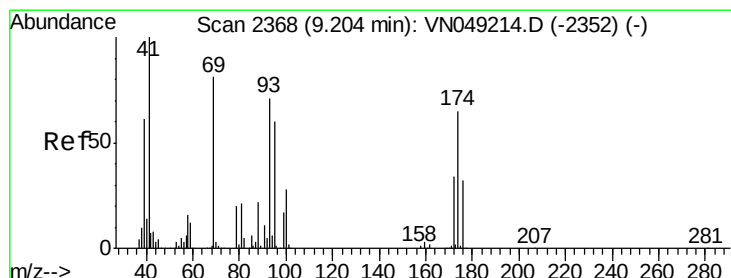
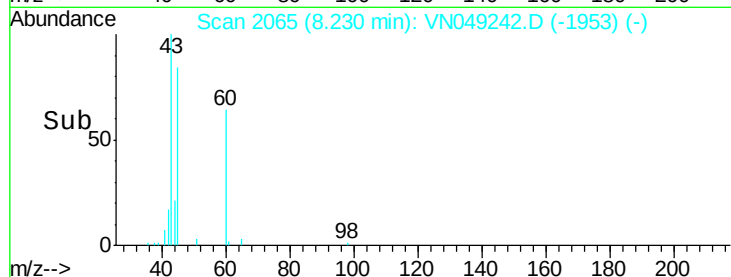
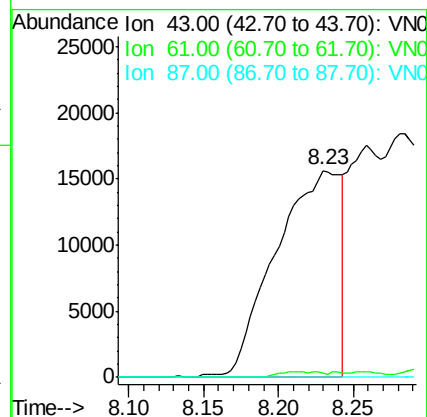
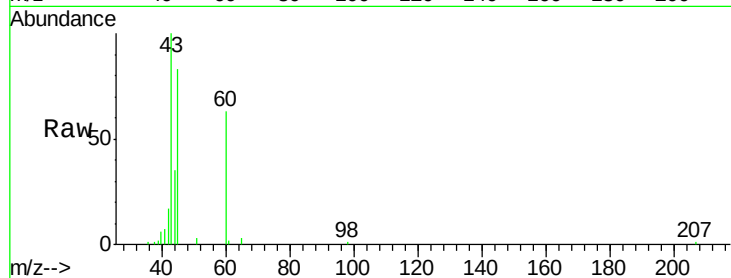
Tot Ion: 43 Resp: 47202

Ion Ratio Lower Upper

43 100

61 1.8 14.2 21.4#

87 0.0 9.4 14.0#



#49

1,4-Dioxane

Concen: 0.63 ug/l

RT: 9.20 min Scan# 2368

Delta R.T. 0.00 min

Lab File: VN049242.D

Acq: 14 Jun 2018 21:25

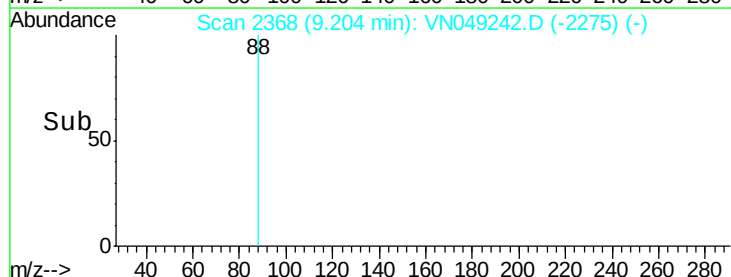
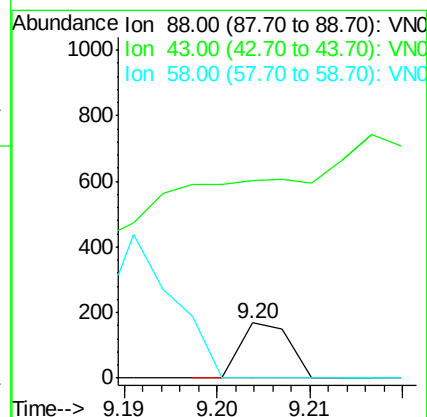
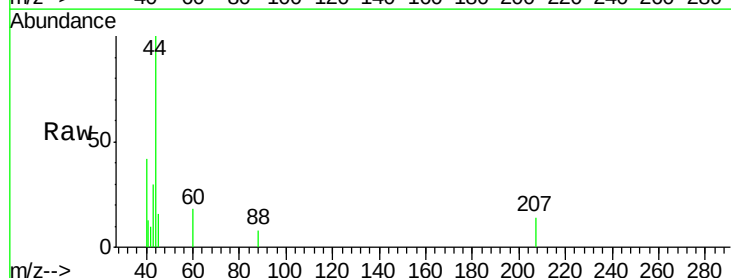
Tgt Ion: 88 Resp: 62

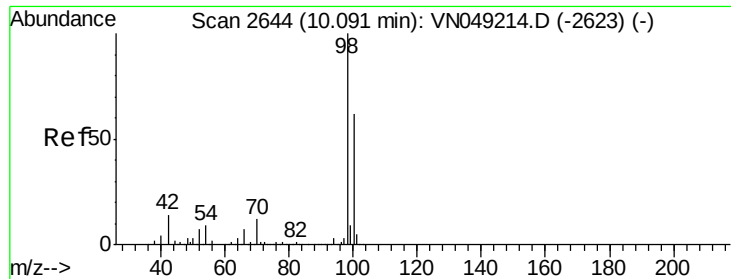
Ion Ratio Lower Upper

88 100

43 0.0 30.9 46.3#

58 337.1 58.9 88.3#

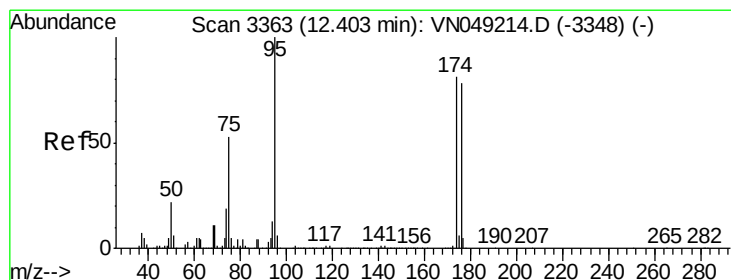
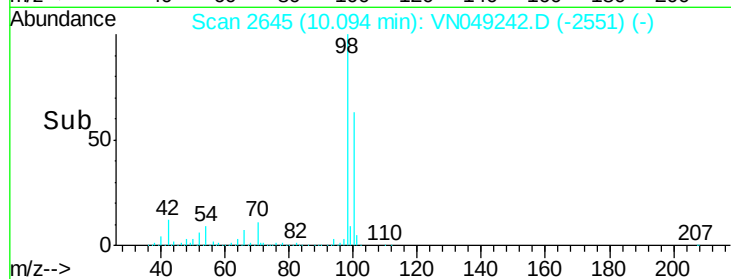
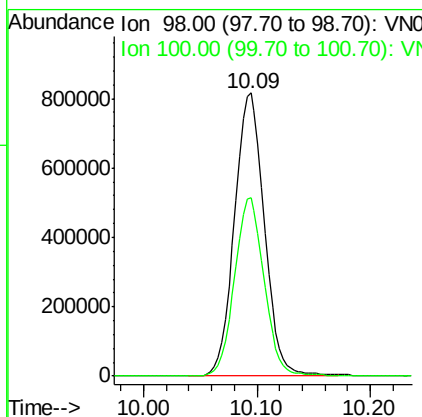
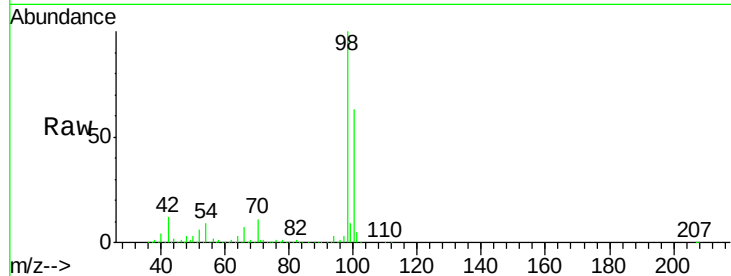




#50
Toluene-d8
Concen: 39.40 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN049242.D
Acq: 14 Jun 2018 21:25

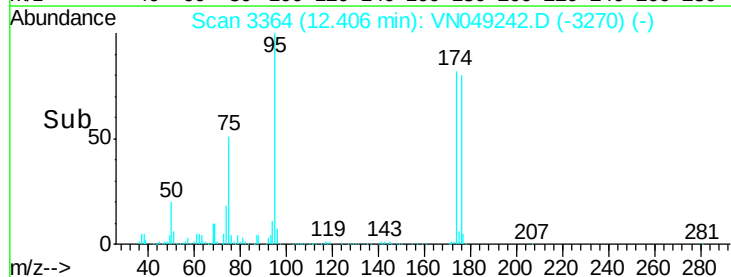
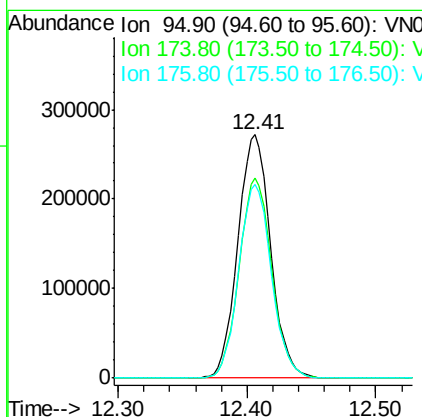
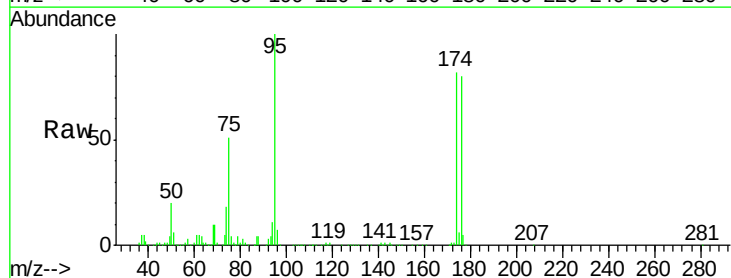
Instrument :
MSVOA_N
ClientSampleId :

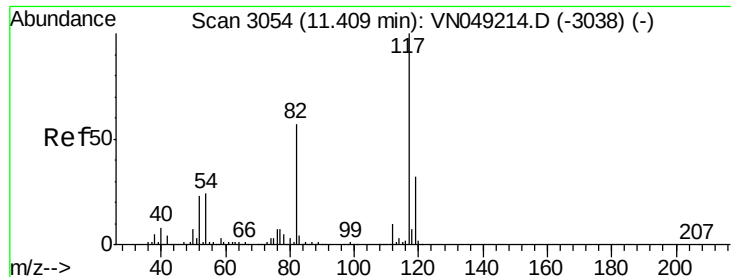
Tot Ion: 98 Resp: 1503862
Ion Ratio Lower Upper
98 100
100 62.6 49.8 74.8



#62
4-Bromofluorobenzene
Concen: 37.93 ug/l
RT: 12.41 min Scan# 3364
Delta R.T. 0.00 min
Lab File: VN049242.D
Acq: 14 Jun 2018 21:25

Tgt Ion: 95 Resp: 480517
Ion Ratio Lower Upper
95 100
174 81.8 0.0 165.6
176 79.6 0.0 157.4

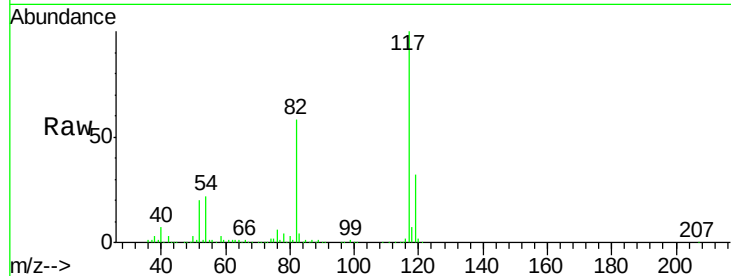




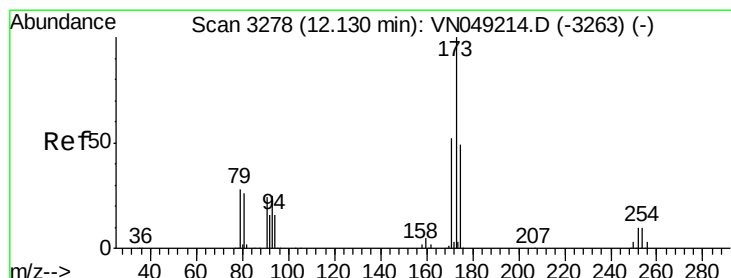
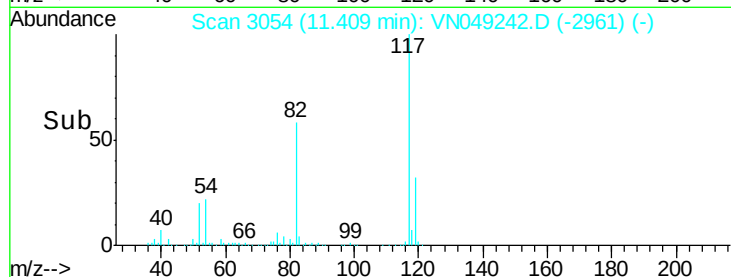
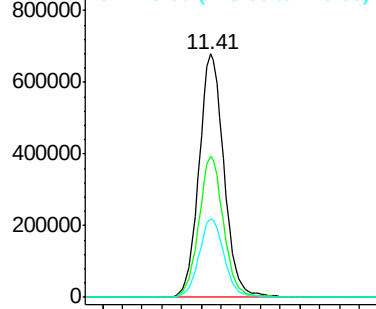
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049242.D
Acq: 14 Jun 2018 21:25

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 1200566
Ion Ratio Lower Upper
117 100
82 57.9 45.9 68.9
119 32.3 25.5 38.3

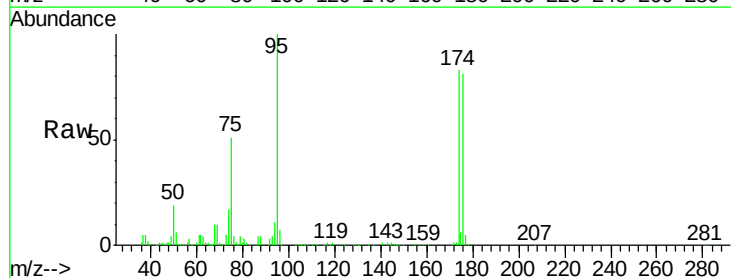


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

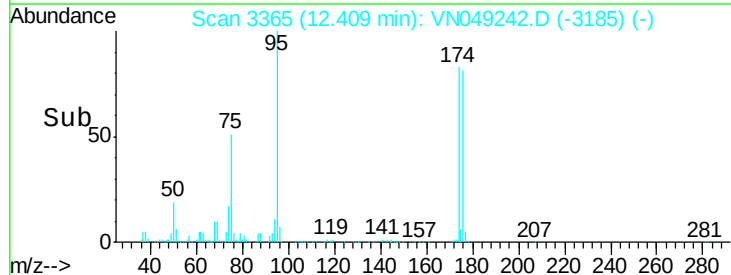
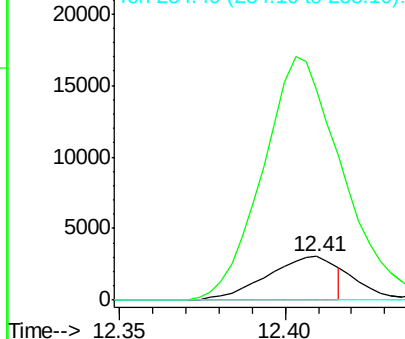


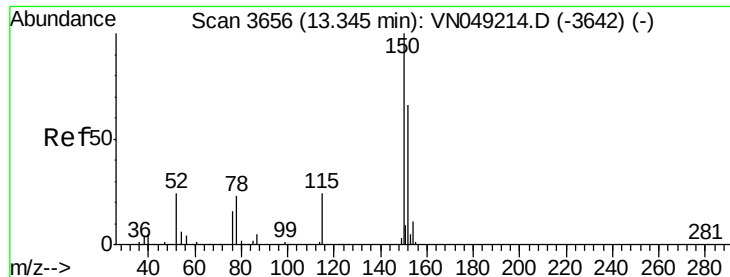
#71
Bromoform
Concen: 0.59 ug/l
RT: 12.41 min Scan# 3365
Delta R.T. 0.28 min
Lab File: VN049242.D
Acq: 14 Jun 2018 21:25

Tgt Ion:173 Resp: 4370
Ion Ratio Lower Upper
173 100
175 544.7 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: VN049242.D

Acq: 14 Jun 2018 21:25

Instrument :

MSVOA_N

ClientSampleId :

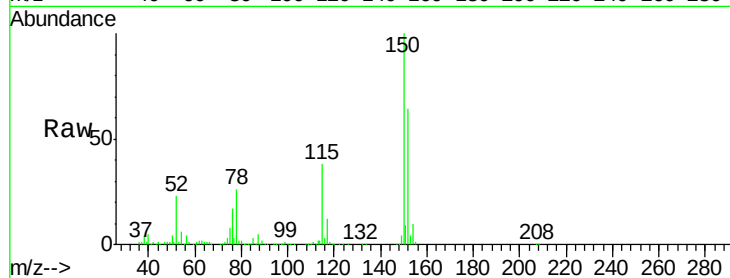
Tot Ion:152 Resp: 345585

Ion Ratio Lower Upper

152 100

115 59.1 28.7 86.1

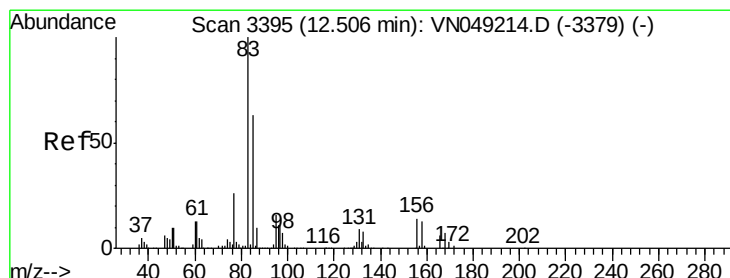
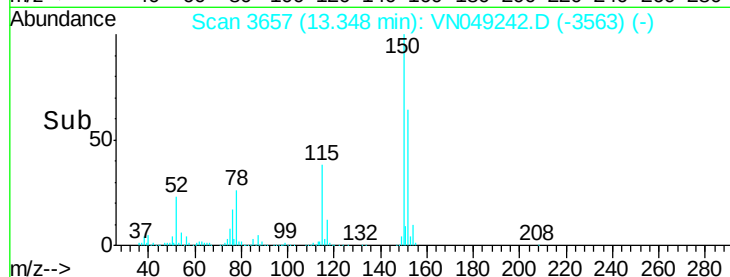
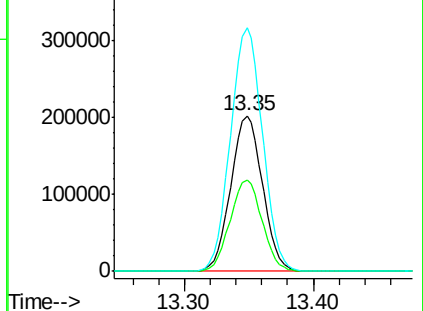
150 157.9 0.0 351.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3394

Delta R.T. -0.00 min

Lab File: VN049242.D

Acq: 14 Jun 2018 21:25

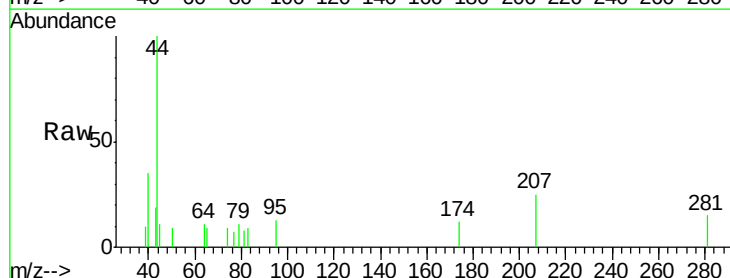
Tgt Ion: 83 Resp: 66

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

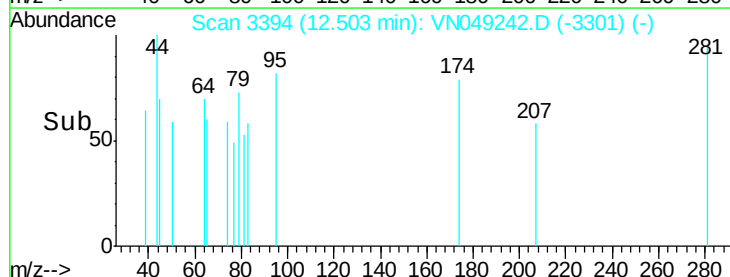
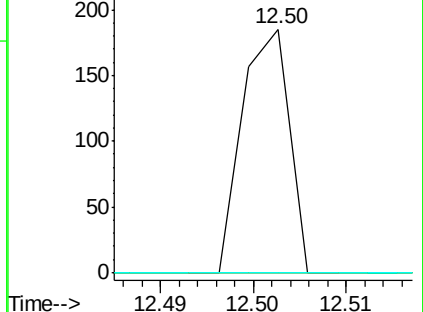
85 0.0 32.0 96.0#

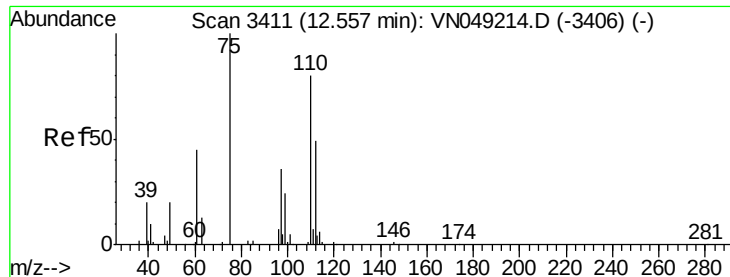


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 42.37 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. -0.15 min

Lab File: VN049242.D

Acq: 14 Jun 2018 21:25

Instrument :

MSVOA_N

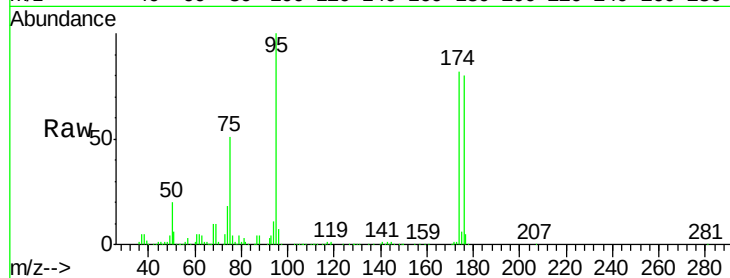
ClientSampleId :

Tot Ion: 75 Resp: 244522

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN049242.D (-3318) (-)

Ion 77.00 (76.70 to 77.70): VN049242.D (-3318) (-)

12.41

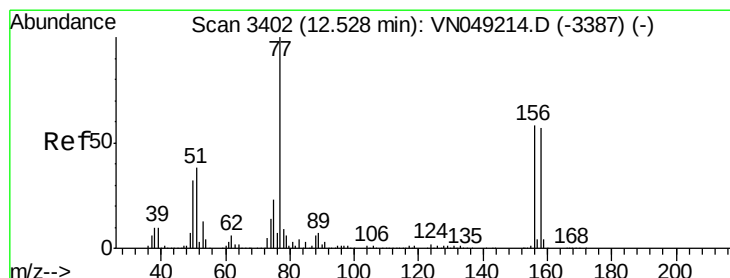
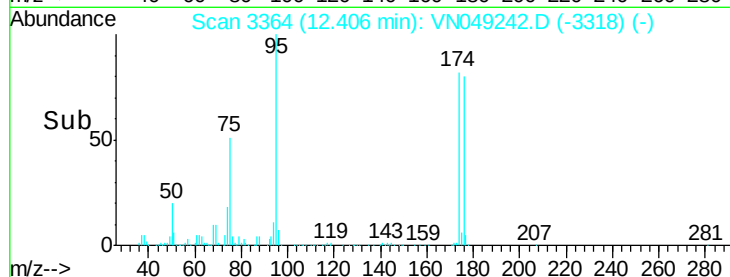
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#77

Bromobenzene

Concen: Below Cal

RT: 12.53 min Scan# 3402

Delta R.T. 0.00 min

Lab File: VN049242.D

Acq: 14 Jun 2018 21:25

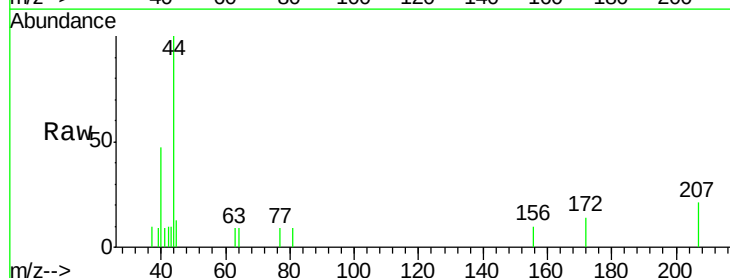
Tgt Ion: 156 Resp: 83

Ion Ratio Lower Upper

156 100

77 233.7 100.8 302.4

158 38.6 49.3 147.9#



Abundance Ion 155.80 (155.50 to 156.50): VN049242.D (-3309) (-)

Ion 77.00 (76.70 to 77.70): VN049242.D (-3309) (-)

Ion 157.80 (157.50 to 158.50): VN049242.D (-3309) (-)

12.53

300

250

200

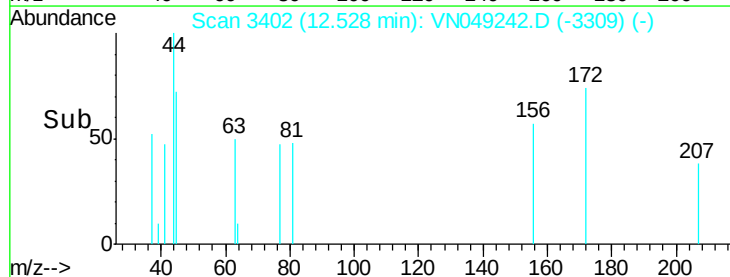
150

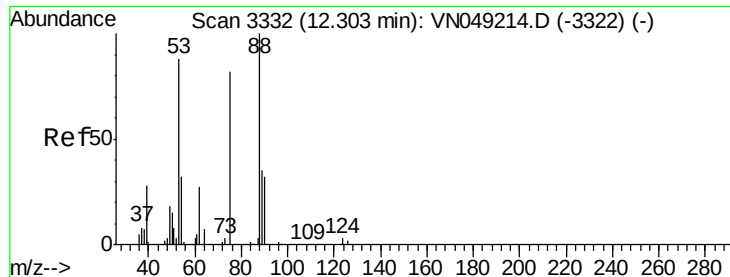
100

50

0

Time--> 12.52 12.53 12.54





#81

trans-1,4-Dichloro-2-butene

Concen: 118.22 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.10 min

Lab File: VN049242.D

Acq: 14 Jun 2018 21:25

Instrument :

MSVOA_N

ClientSampleId :

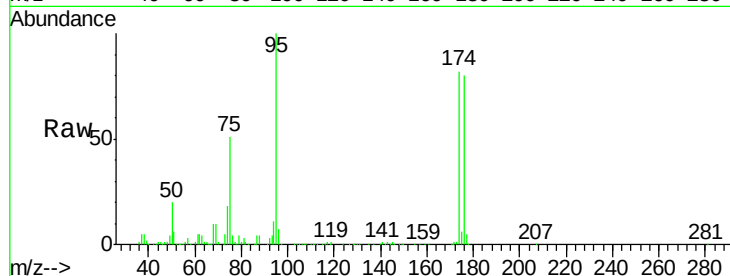
Tot Ion: 75 Resp: 244522

Ion Ratio Lower Upper

75 100

53 0.2 82.7 124.1#

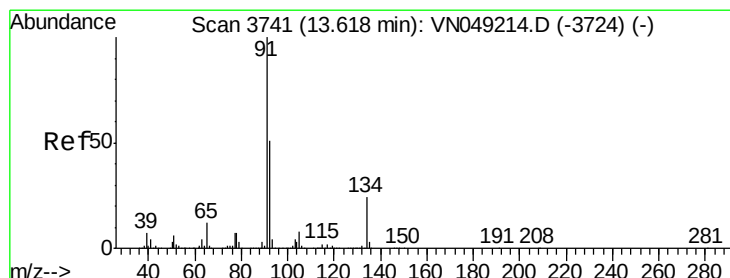
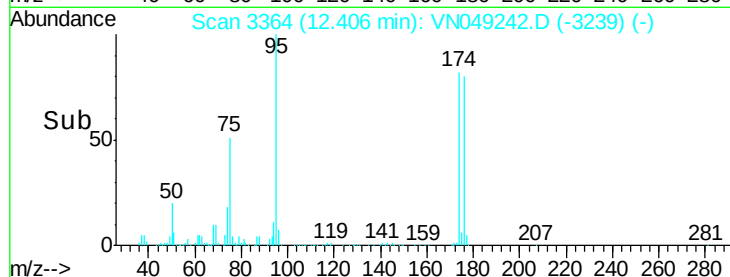
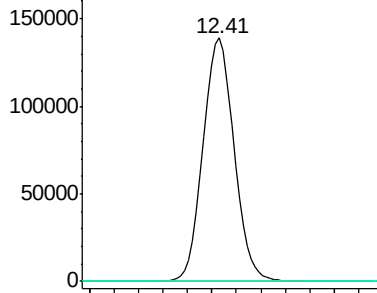
89 0.0 36.5 54.7#



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



#89

n-Butylbenzene

Concen: 1.57 ug/l

RT: 13.62 min Scan# 3743

Delta R.T. 0.01 min

Lab File: VN049242.D

Acq: 14 Jun 2018 21:25

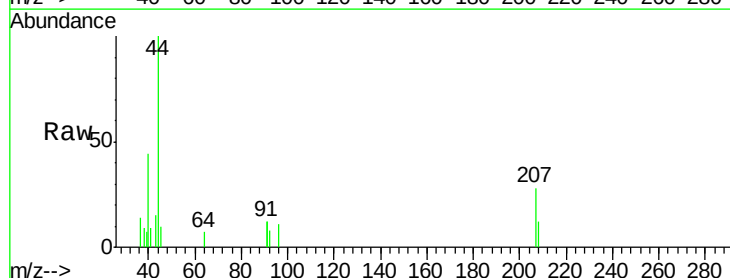
Tgt Ion: 91 Resp: 410

Ion Ratio Lower Upper

91 100

92 46.8 25.1 75.4

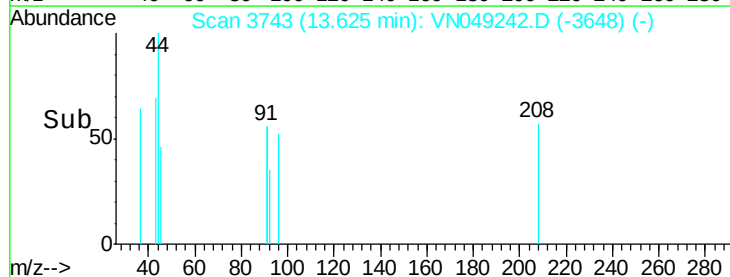
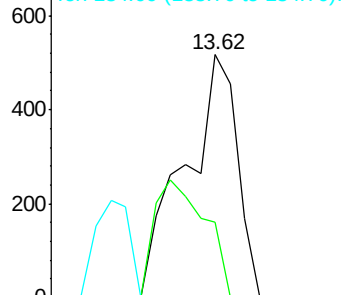
134 0.0 12.0 36.0#

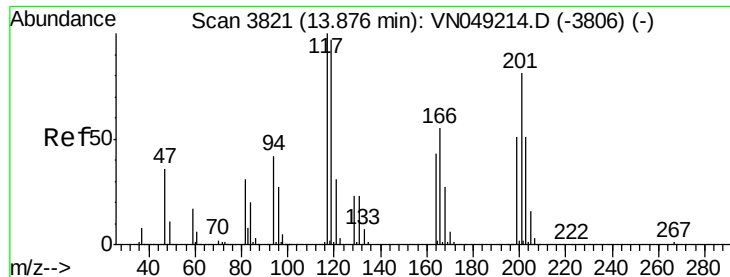


Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0

Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: Below Cal

RT: 13.99 min Scan# 3858

Delta R.T. 0.12 min

Lab File: VN049242.D

Acq: 14 Jun 2018 21:25

Instrument :

MSVOA_N

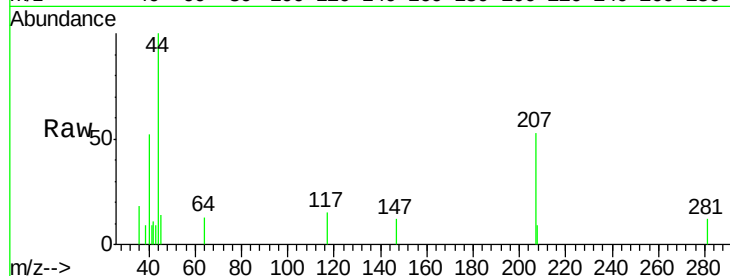
ClientSampleId :

Tot Ion:117 Resp: 283

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

13.99

250

200

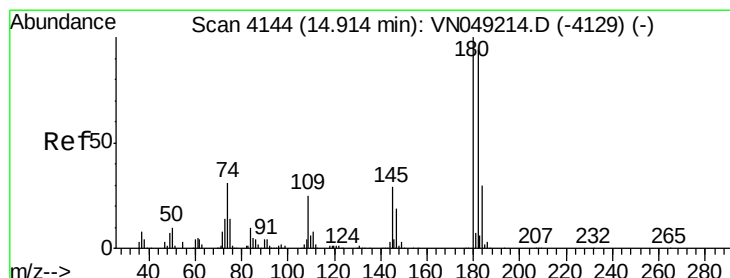
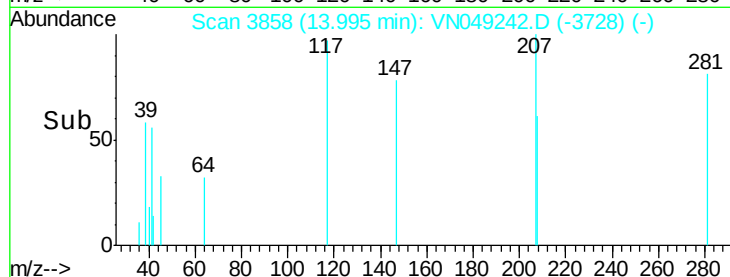
150

100

50

0

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 4.40 ug/l

RT: 14.91 min Scan# 4143

Delta R.T. -0.00 min

Lab File: VN049242.D

Acq: 14 Jun 2018 21:25

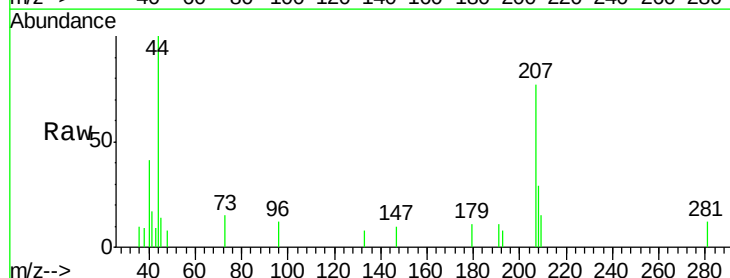
Tgt Ion:180 Resp: 114

Ion Ratio Lower Upper

180 100

182 57.0 46.9 140.8

145 138.6 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

14.91

250

200

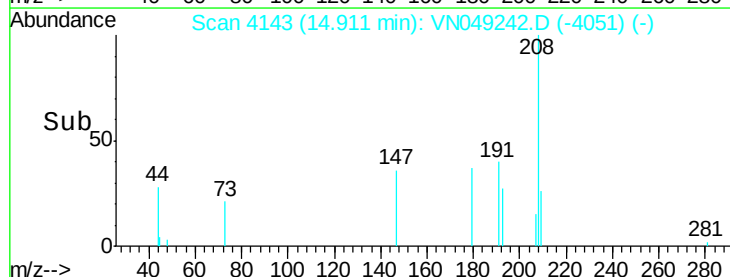
150

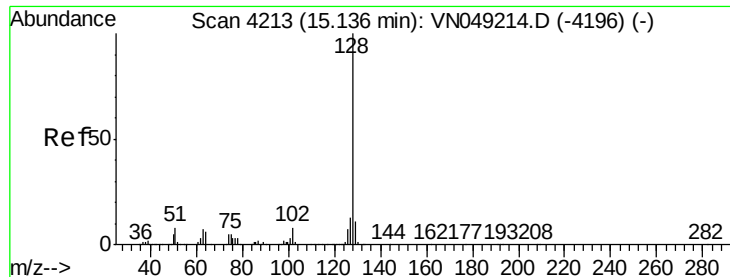
100

50

0

Time-->





#95

Naphthalene

Concen: 5.50 ug/l

RT: 15.14 min Scan# 4215

Delta R.T. 0.01 min

Lab File: VN049242.D

Acq: 14 Jun 2018 21:25

Instrument :

MSVOA_N

ClientSampleId :

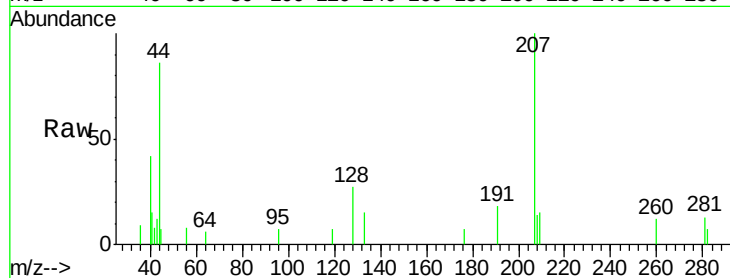
Tot Ion:128 Resp: 1156

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

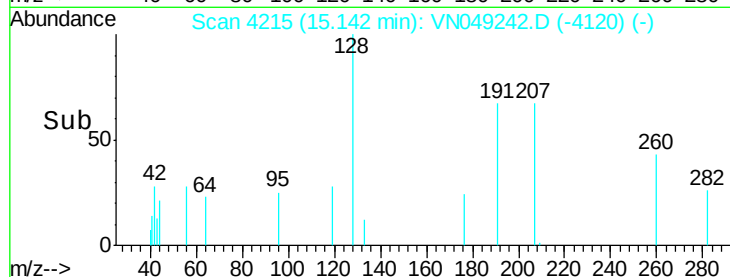
800

600

400

200

0



Time--> 15.10 15.15