

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062218\
 Data File : VN049491.D
 Acq On : 22 Jun 2018 15:06
 Operator : MD\SY
 Sample : J3570-11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 22 22:14:22 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	7.70	168	1144773	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	8.61	114	1753549	50.00	ug/l	0.02
63) Chlorobenzene-d5	11.41	117	1495715	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	406251	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.05	65	763069	50.26	ug/l	0.03
Spiked Amount			Recovery	=	100.52%	
35) Dibromofluoromethane	7.62	113	531283	37.45	ug/l	0.03
Spiked Amount			Recovery	=	74.90%	
50) Toluene-d8	10.10	98	2473036	45.78	ug/l	0.00
Spiked Amount			Recovery	=	91.56%	
62) 4-Bromofluorobenzene	12.41	95	608293	34.06	ug/l	0.00
Spiked Amount			Recovery	=	68.12%	

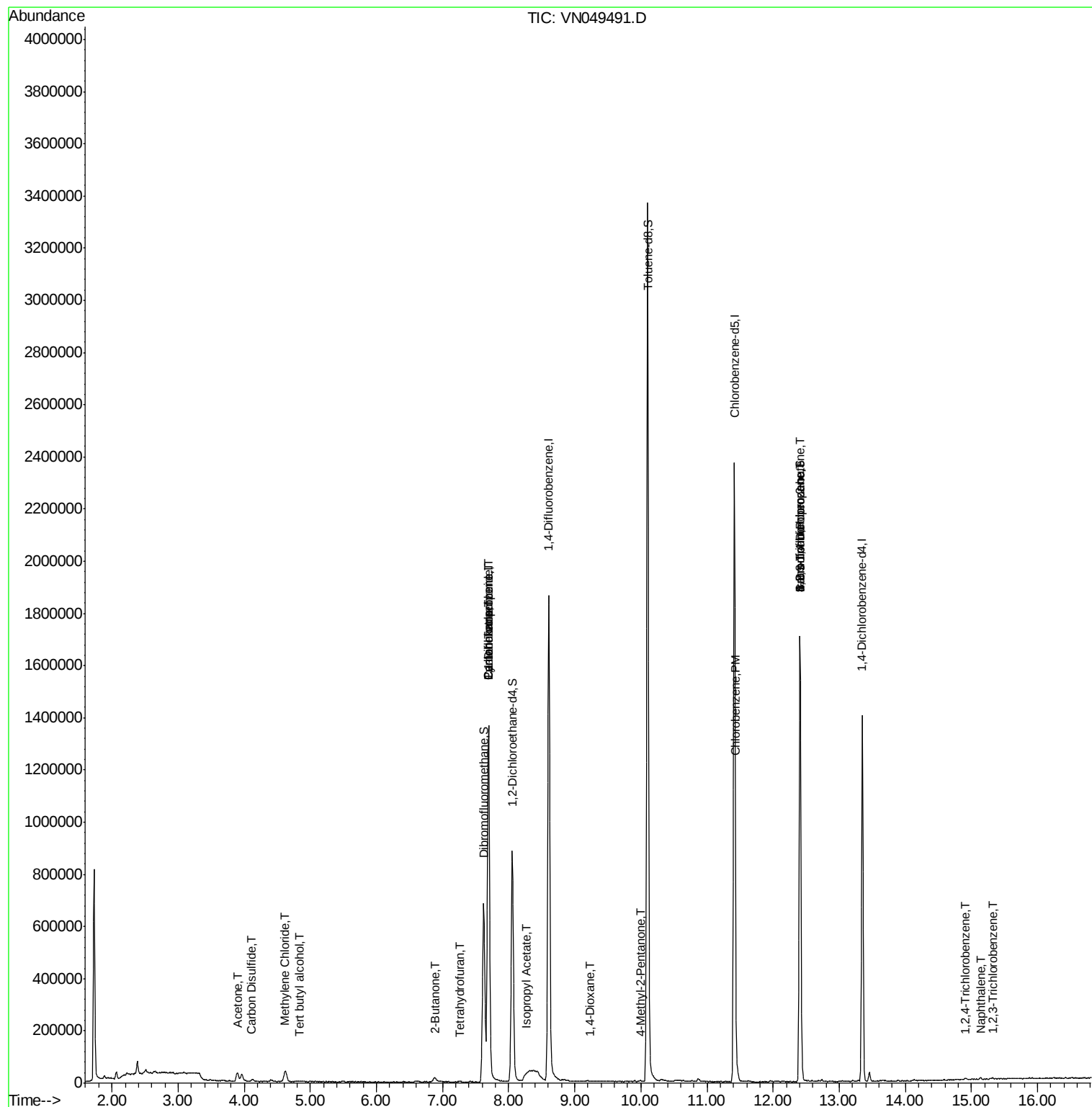
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.82	59	1900	2.13	ug/l #	70
16) Acetone	3.90	43	53637	14.55	ug/l	90
17) Carbon Disulfide	4.12	76	15792	0.38	ug/l #	94
20) Methylene Chloride	4.63	84	31794	2.06	ug/l	93
25) 2-Butanone	6.90	43	11458	2.31	ug/l	98
29) Tetrahydrofuran	7.26	42	1317	0.41	ug/l #	66
31) Cyclohexane	7.69	56	21414	0.78	ug/l #	1
36) 1,1-Dichloropropene	7.69	75	82823	4.12	ug/l #	50
38) Carbon Tetrachloride	7.70	117	103313	4.97	ug/l #	17
43) Isopropyl Acetate	8.26	43	23533	1.13	ug/l #	64
49) 1,4-Dioxane	9.22	88	247	1.82	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	4563	0.42	ug/l #	84
65) Chlorobenzene	11.44	112	8141	0.21	ug/l	91
71) Bromoform	12.41	173	4201	0.45	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.52	83	157	Below	Cal #	95
76) 1,2,3-Trichloropropane	12.41	75	296472	42.77	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	296472	135.18	ug/l #	9
93) 1,2,4-Trichlorobenzene	14.91	180	1644	4.96	ug/l	72
94) Hexachlorobutadiene	15.00	225	404	Below	Cal	97
95) Naphthalene	15.14	128	4497	2.48	ug/l #	83
96) 1,2,3-Trichlorobenzene	15.32	180	1731	3.69	ug/l	86

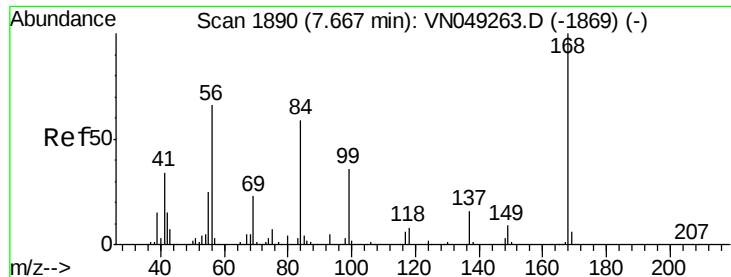
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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ClientSampleId :

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:02:01 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.70 min Scan# 1899

Delta R.T. 0.03 min

Lab File: VN049491.D

Acq: 22 Jun 2018 15:06

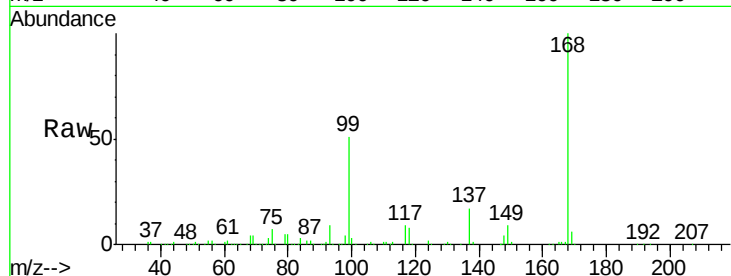
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 1144773

Ion Ratio Lower Upper

168 100

99 51.4 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.70

500000

400000

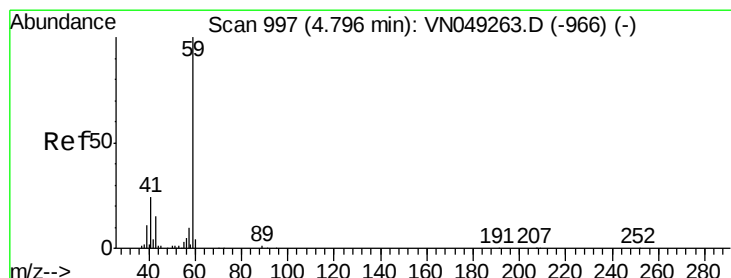
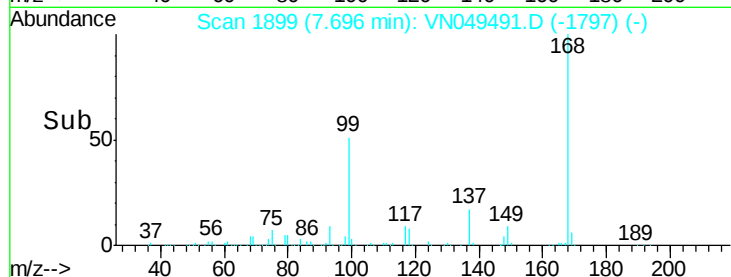
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 2.13 ug/l

RT: 4.82 min Scan# 1006

Delta R.T. 0.03 min

Lab File: VN049491.D

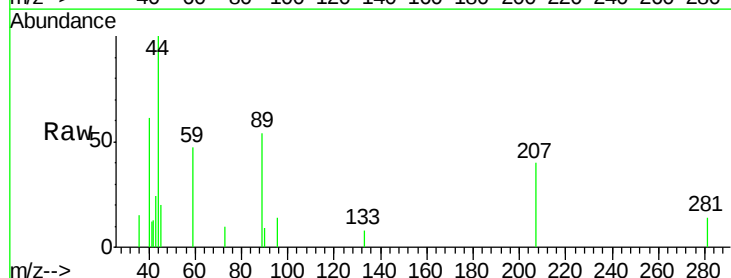
Acq: 22 Jun 2018 15:06

Tgt Ion: 59 Resp: 1900

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.82

1000

800

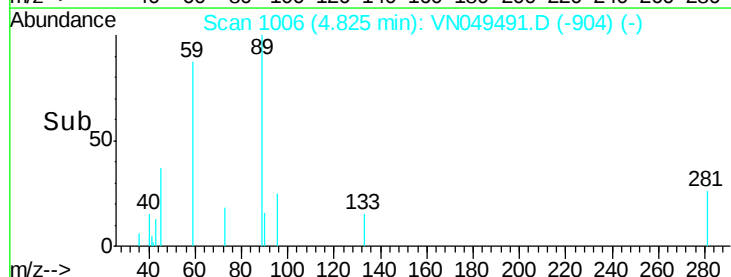
600

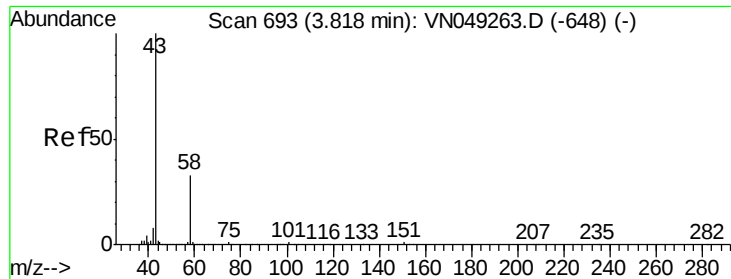
400

200

0

Time-->





#16

Acetone

Concen: 14.55 ug/l

RT: 3.90 min Scan# 717

Delta R.T. 0.08 min

Lab File: VN049491.D

Acq: 22 Jun 2018 15:06

Instrument :

MSVOA_N

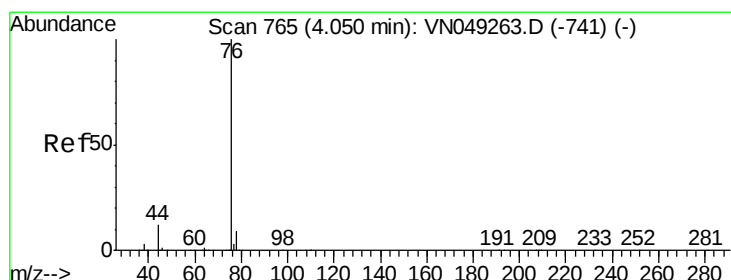
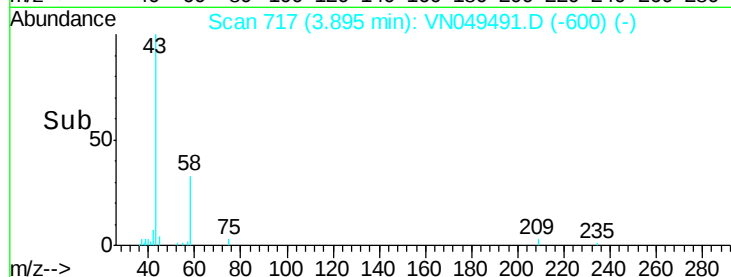
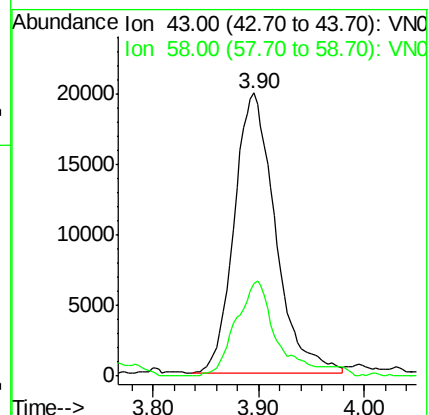
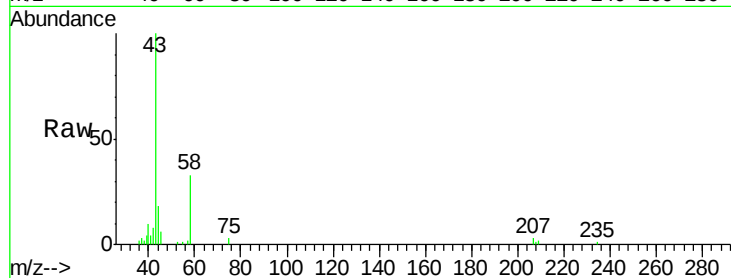
ClientSampled :

Tot Ion: 43 Resp: 53637

Ion Ratio Lower Upper

43 100

58 33.2 22.4 33.6



#17

Carbon Disulfide

Concen: 0.38 ug/l

RT: 4.12 min Scan# 787

Delta R.T. 0.07 min

Lab File: VN049491.D

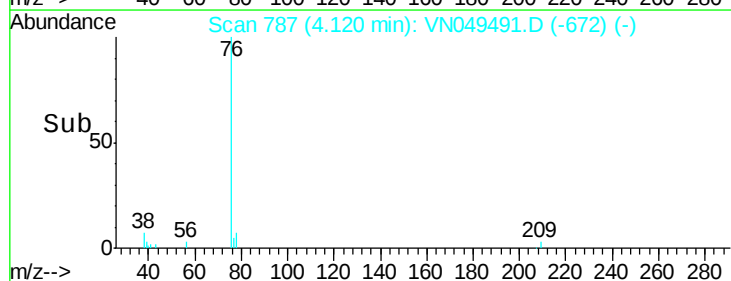
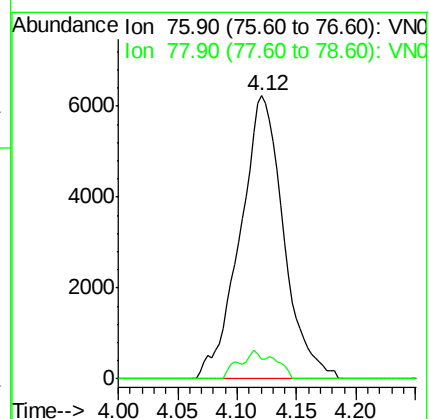
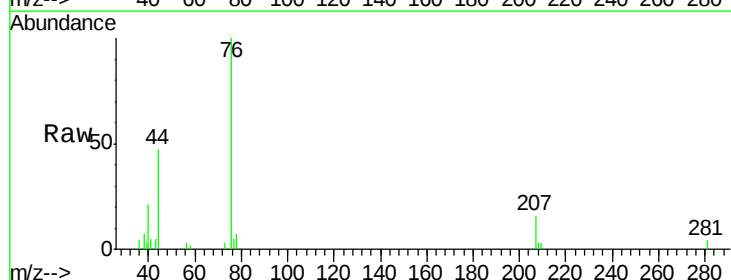
Acq: 22 Jun 2018 15:06

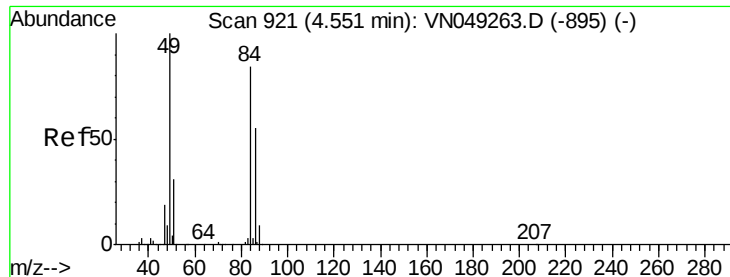
Tgt Ion: 76 Resp: 15792

Ion Ratio Lower Upper

76 100

78 7.0 7.4 11.0#

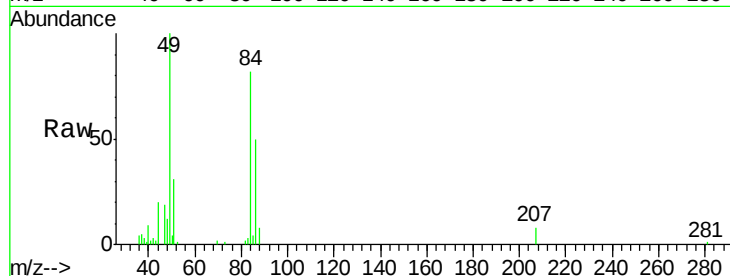




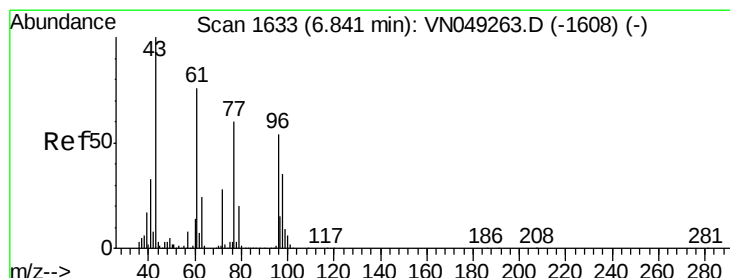
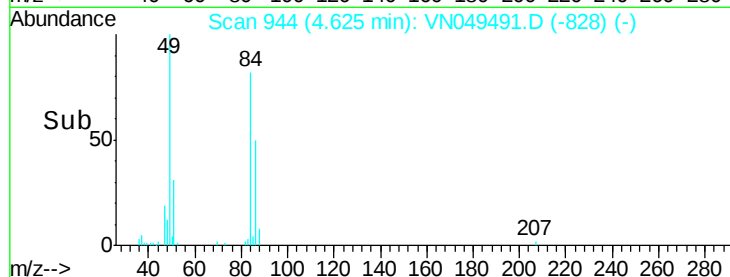
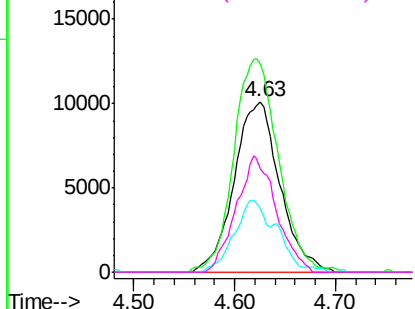
#20
Methvlene Chloride
Concen: 2.06 ug/l
RT: 4.63 min Scan# 944
Delta R.T. 0.07 min
Lab File: VN049491.D
Acq: 22 Jun 2018 15:06

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 84 Resp: 31794
Ion Ratio Lower Upper
84 100
49 122.1 106.9 160.3
51 37.7 32.7 49.1
86 61.2 49.8 74.8

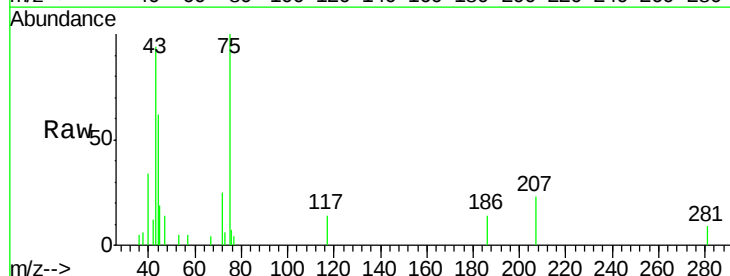


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

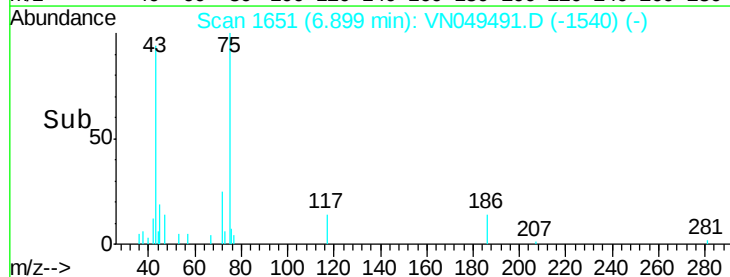
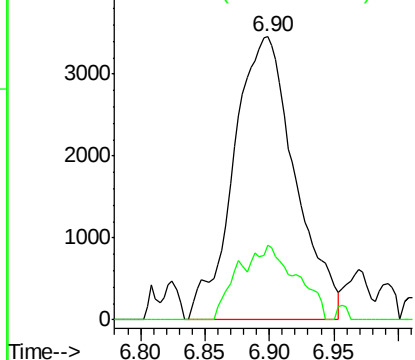


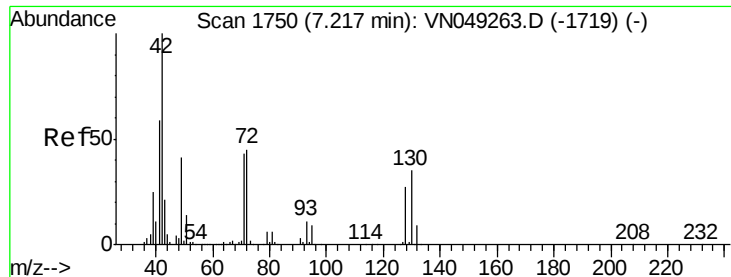
#25
2-Butanone
Concen: 2.31 ug/l
RT: 6.90 min Scan# 1651
Delta R.T. 0.06 min
Lab File: VN049491.D
Acq: 22 Jun 2018 15:06

Tgt Ion: 43 Resp: 11458
Ion Ratio Lower Upper
43 100
72 26.4 20.2 30.2



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.41 ug/l

RT: 7.26 min Scan# 1764

Delta R.T. 0.05 min

Lab File: VN049491.D

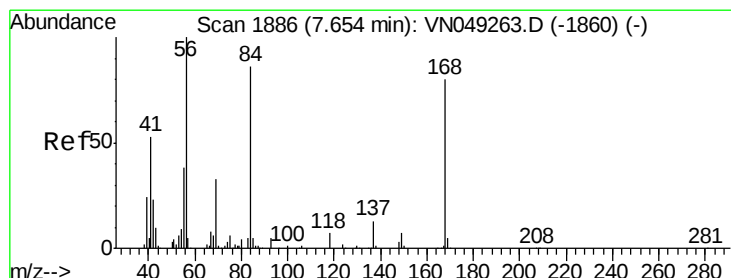
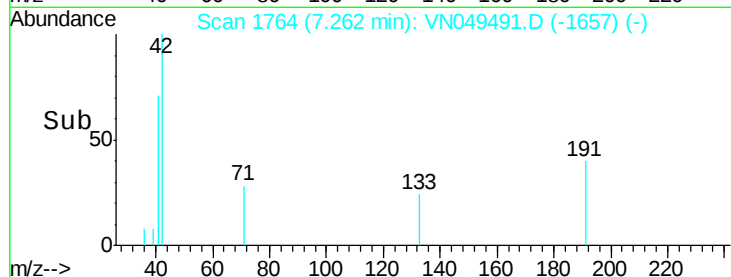
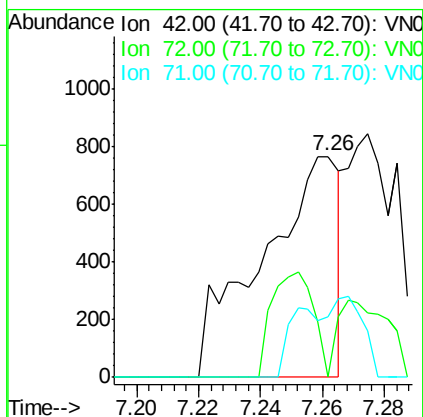
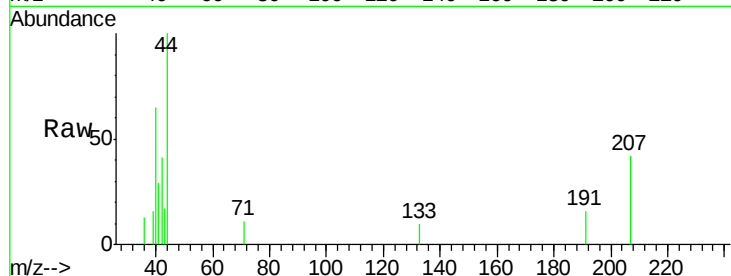
Acq: 22 Jun 2018 15:06

Instrument :

MSVOA_N

ClientSampled :

Tot Ion:	42	Resp:	1317
Ion	Ratio	Lower	Upper
42	100		
72	22.5	32.2	48.4#
71	13.8	30.5	45.7#



#31

Cyclohexane

Concen: 0.78 ug/l

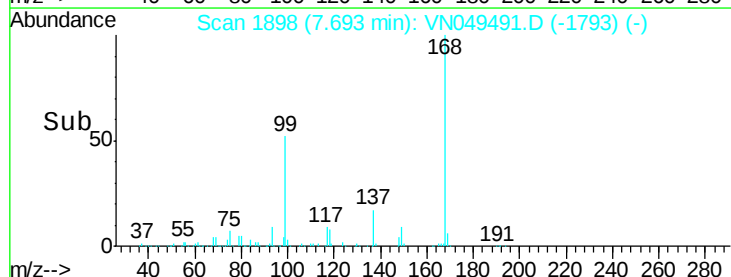
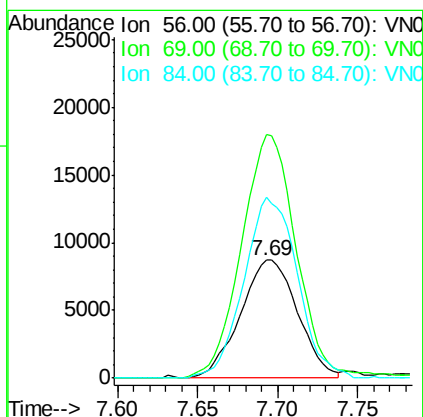
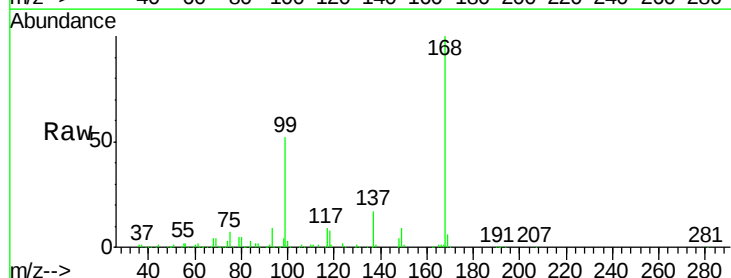
RT: 7.69 min Scan# 1898

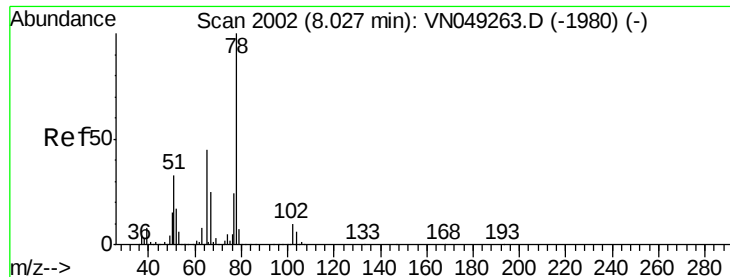
Delta R.T. 0.04 min

Lab File: VN049491.D

Acq: 22 Jun 2018 15:06

Tgt Ion:	56	Resp:	21414
Ion	Ratio	Lower	Upper
56	100		
69	204.5	25.0	37.4#
84	152.7	64.6	96.8#





#33

1,2-Dichloroethane-d4

Concen: 50.26 ug/l

RT: 8.05 min Scan# 2010

Delta R.T. 0.03 min

Lab File: VN049491.D

Acq: 22 Jun 2018 15:06

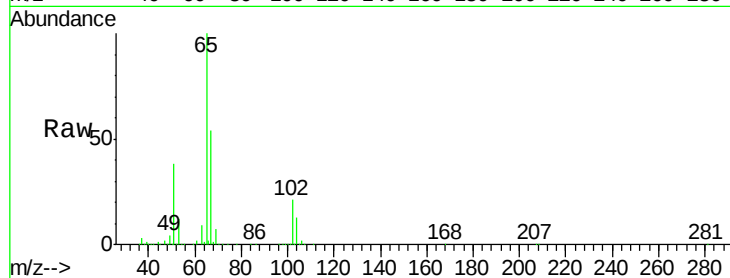
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 65 Resp: 763069

Ion Ratio Lower Upper

65 100

67 54.1 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN049491.D (-1909) (-)

Ion 66.90 (66.60 to 67.60): VN049491.D (-1909) (-)

8.05

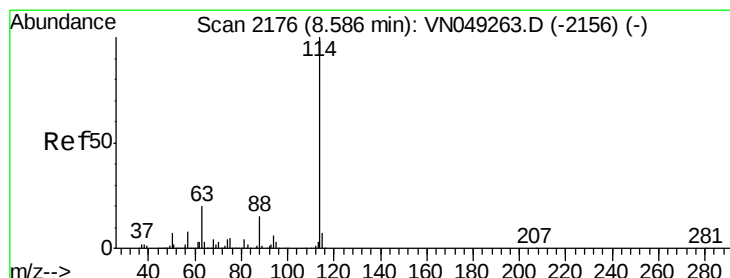
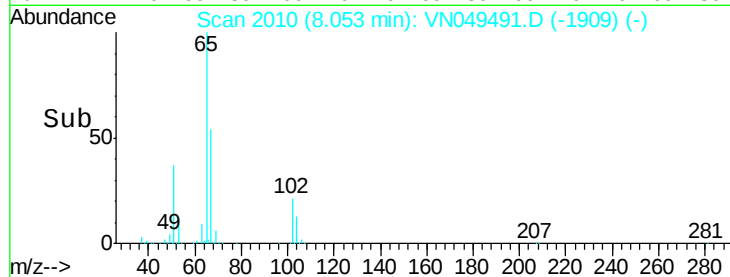
300000

200000

100000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.61 min Scan# 2182

Delta R.T. 0.02 min

Lab File: VN049491.D

Acq: 22 Jun 2018 15:06

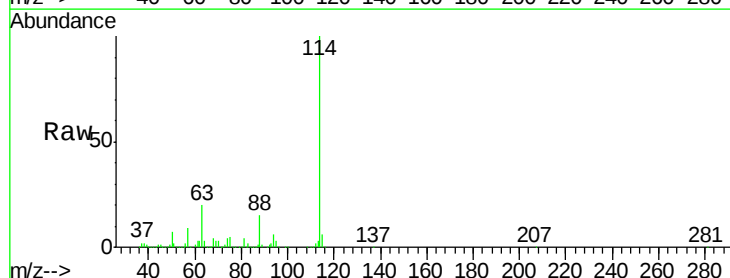
Tgt Ion: 114 Resp: 1753549

Ion Ratio Lower Upper

114 100

63 20.0 0.0 44.4

88 15.5 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): VN049491.D (-2083) (-)

Ion 63.00 (62.70 to 63.70): VN049491.D (-2083) (-)

Ion 87.90 (87.60 to 88.60): VN049491.D (-2083) (-)

8.61

1000000

800000

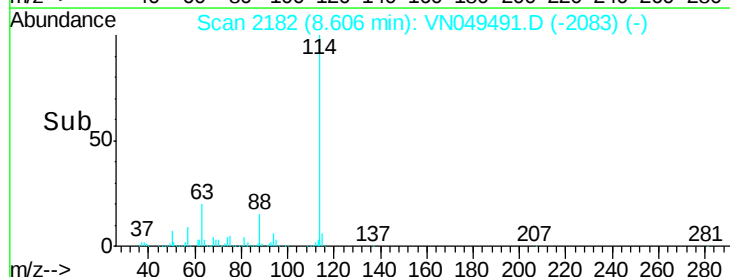
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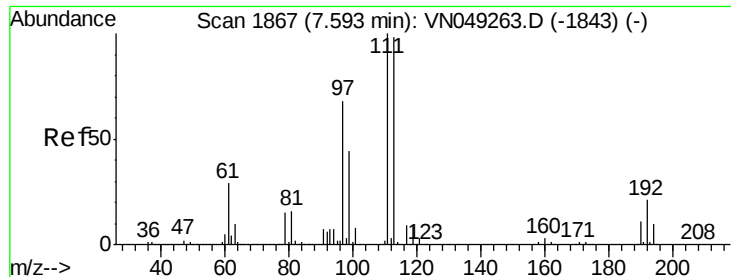
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200000

0

Time-->

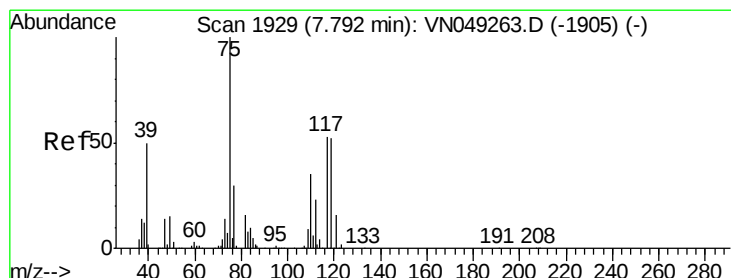
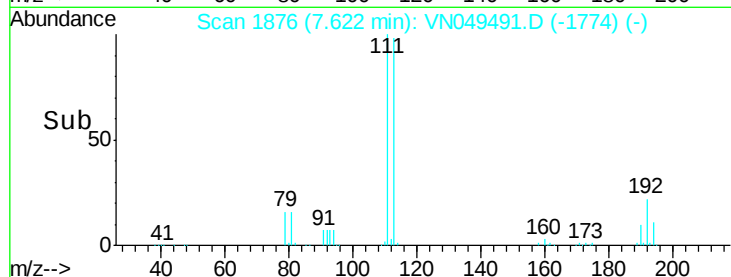
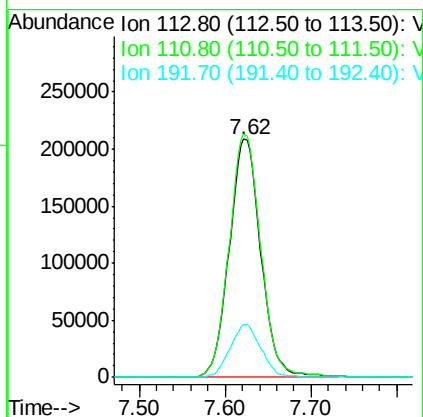
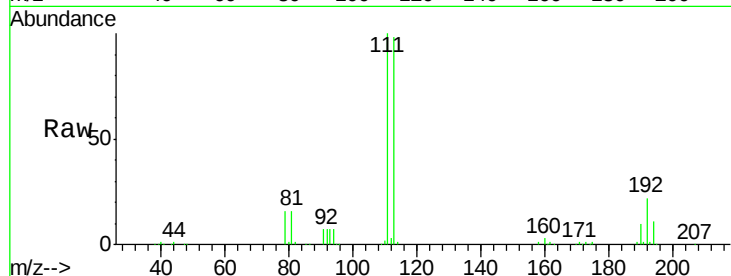




#35
 Dibromofluoromethane
 Concen: 37.45 ug/l
 RT: 7.62 min Scan# 1876
 Delta R.T. 0.03 min
 Lab File: VN049491.D
 Acq: 22 Jun 2018 15:06

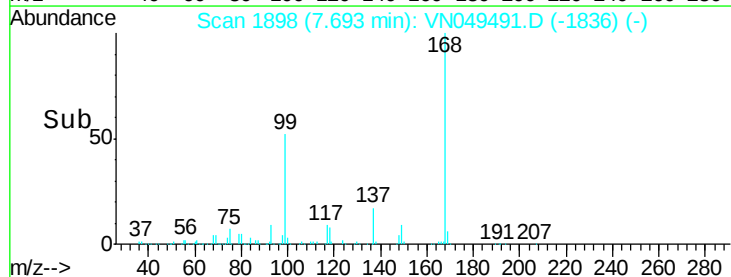
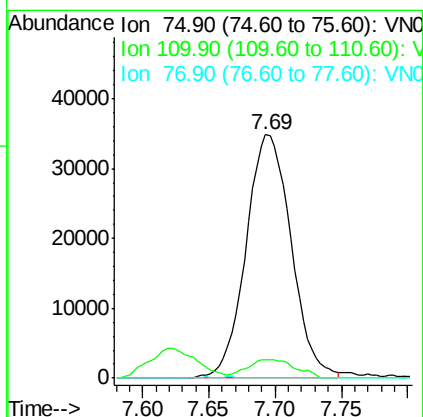
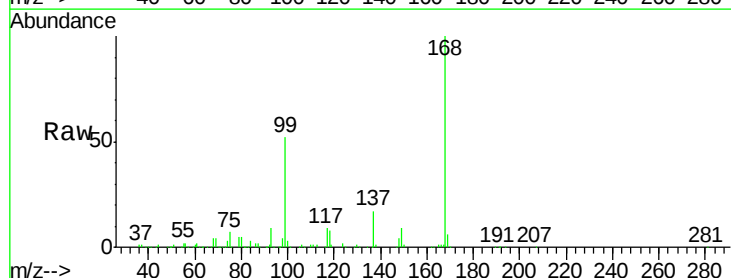
Instrument :
 MSVOA_N
 ClientSampled :

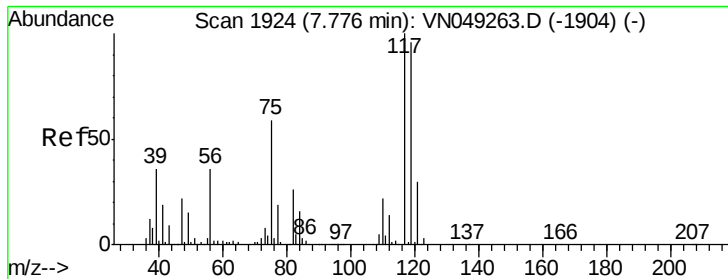
Tot Ion:113 Resp: 531283
 Ion Ratio Lower Upper
 113 100
 111 102.4 82.4 123.6
 192 21.9 15.0 22.6



#36
 1,1-Dichloropropene
 Concen: 4.12 ug/l
 RT: 7.69 min Scan# 1898
 Delta R.T. -0.10 min
 Lab File: VN049491.D
 Acq: 22 Jun 2018 15:06

Tgt Ion: 75 Resp: 82823
 Ion Ratio Lower Upper
 75 100
 110 8.2 17.0 50.9#
 77 0.0 24.4 36.6#

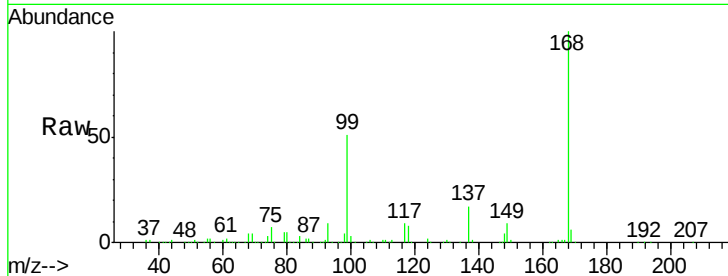




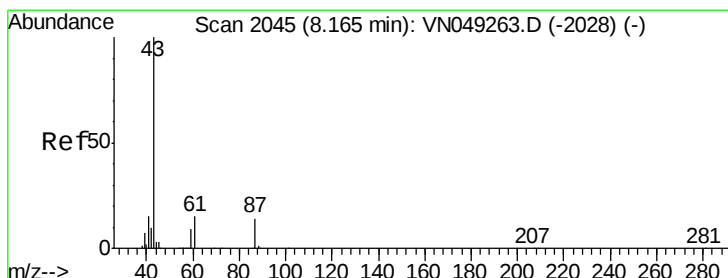
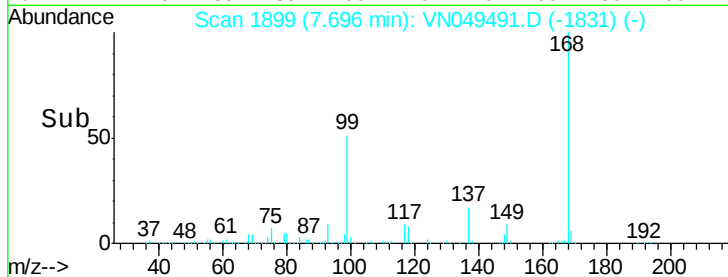
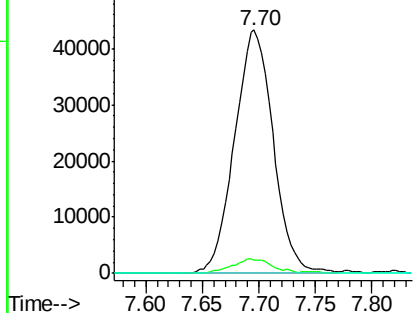
#38
Carbon Tetrachloride
Concen: 4.97 ug/l
RT: 7.70 min Scan# 1899
Delta R.T. -0.08 min
Lab File: VN049491.D
Acq: 22 Jun 2018 15:06

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 103313
Ion Ratio Lower Upper
117 100
119 5.4 75.6 113.4#
121 0.0 24.7 37.1#

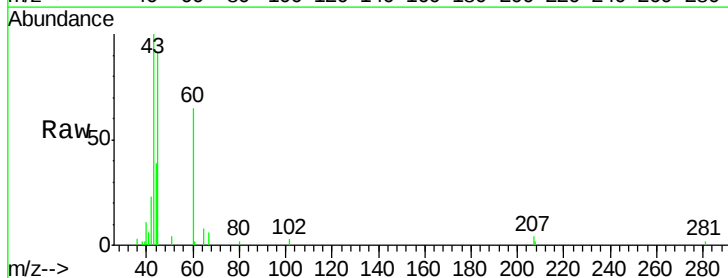


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

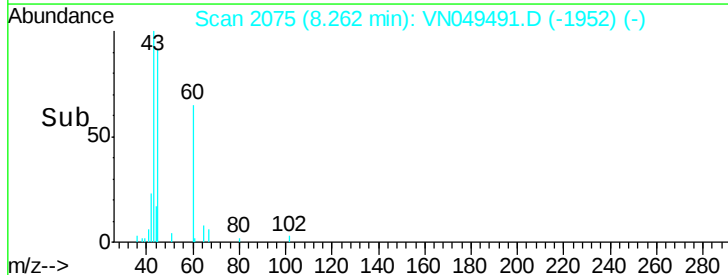
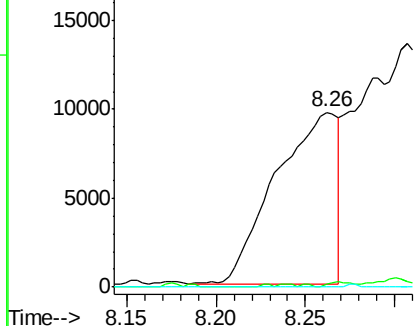


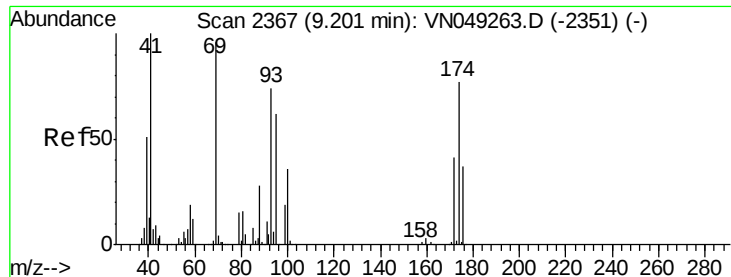
#43
Isopropyl Acetate
Concen: 1.13 ug/l
RT: 8.26 min Scan# 2075
Delta R.T. 0.10 min
Lab File: VN049491.D
Acq: 22 Jun 2018 15:06

Tgt Ion: 43 Resp: 23533
Ion Ratio Lower Upper
43 100
61 0.0 14.2 21.4#
87 0.3 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

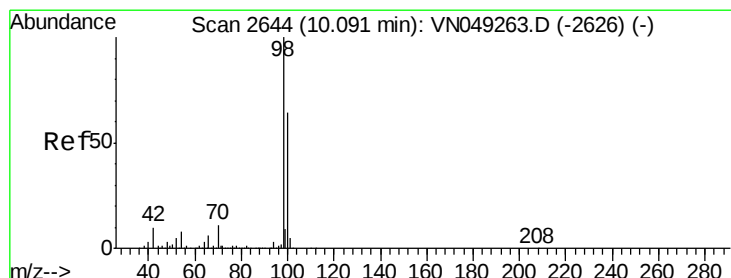
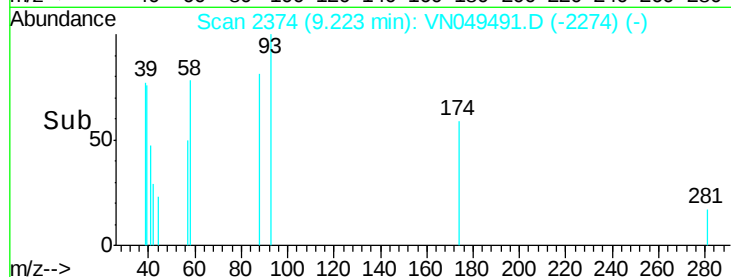
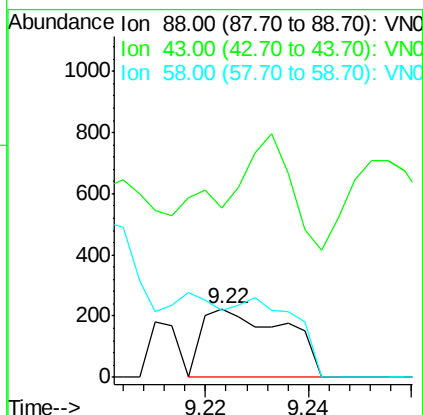
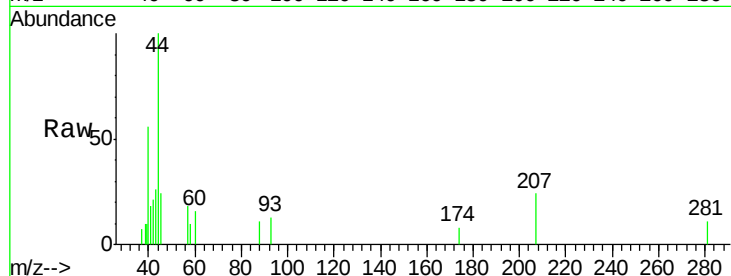




#49
1,4-Dioxane
Concen: 1.82 ug/l
RT: 9.22 min Scan# 2374
Delta R.T. 0.02 min
Lab File: VN049491.D
Acq: 22 Jun 2018 15:06

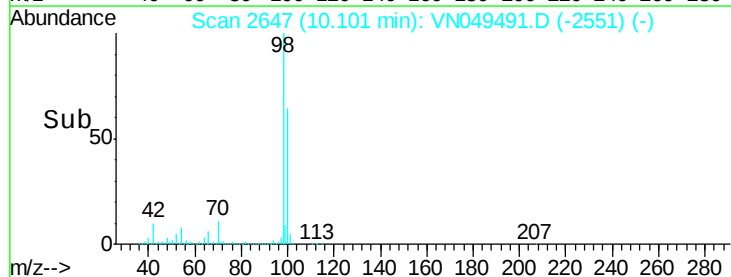
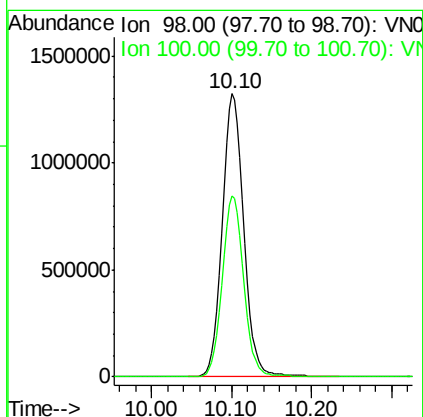
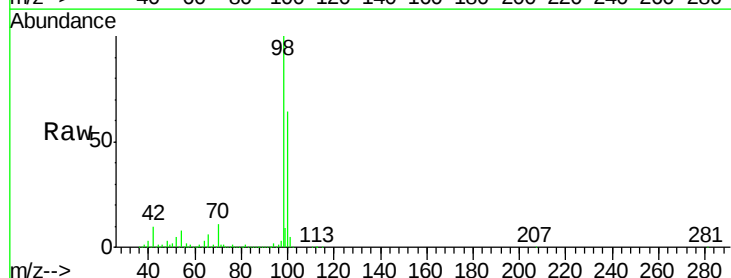
Instrument :
MSVOA_N
ClientSampled :

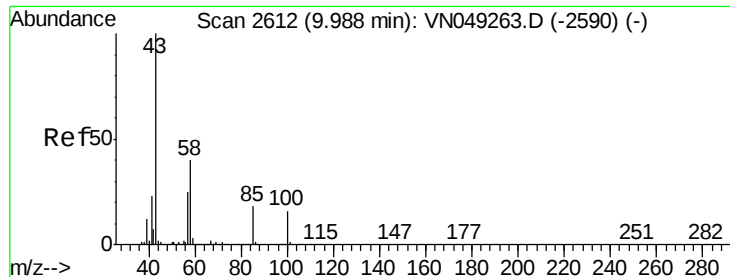
Tot Ion: 88 Resp: 247
Ion Ratio Lower Upper
88 100
43 135.6 30.9 46.3#
58 0.0 58.9 88.3#



#50
Toluene-d8
Concen: 45.78 ug/l
RT: 10.10 min Scan# 2647
Delta R.T. 0.01 min
Lab File: VN049491.D
Acq: 22 Jun 2018 15:06

Tgt Ion: 98 Resp: 2473036
Ion Ratio Lower Upper
98 100
100 63.8 49.8 74.8

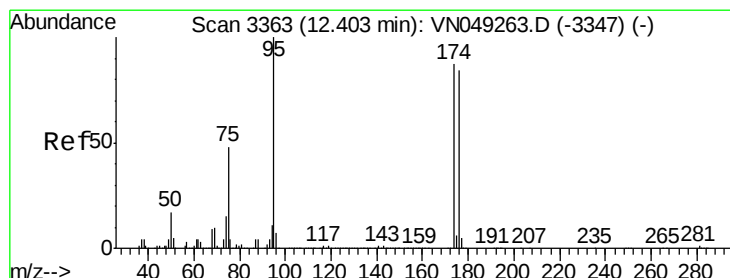
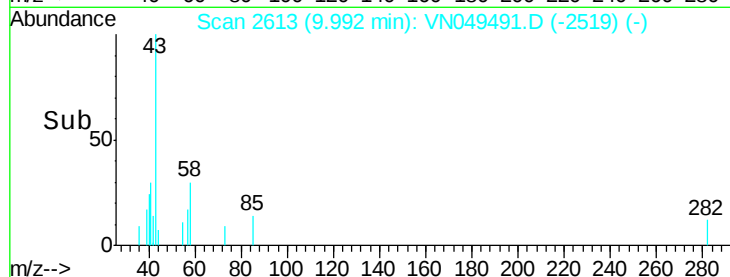
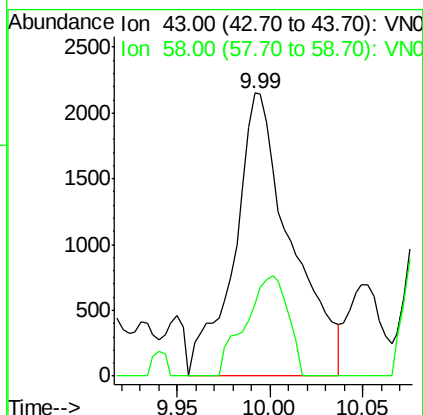
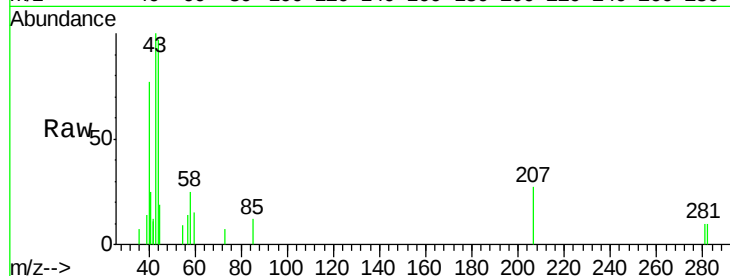




#51
4-Methyl-2-Pentanone
Concen: 0.42 ug/l
RT: 9.99 min Scan# 2613
Delta R.T. 0.00 min
Lab File: VN049491.D
Acq: 22 Jun 2018 15:06

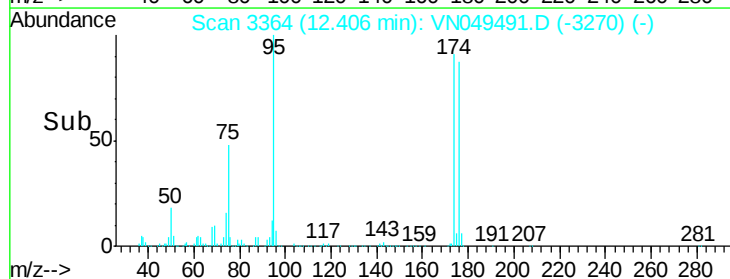
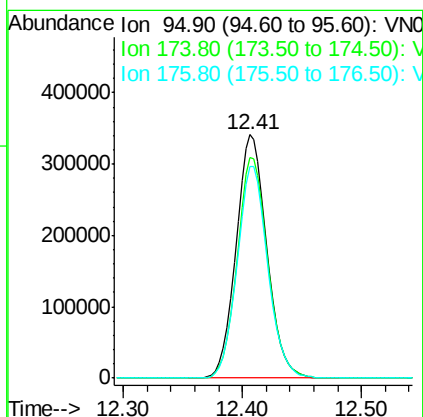
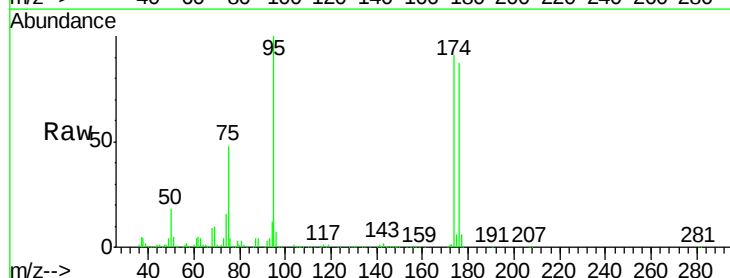
Instrument :
MSVOA_N
ClientSampled :

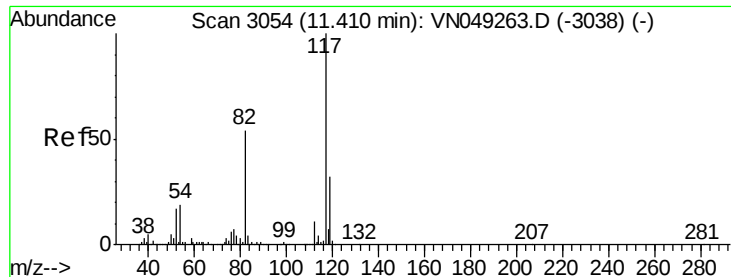
Tot Ion: 43 Resp: 4563
Ion Ratio Lower Upper
43 100
58 26.6 29.0 43.6#



#62
4-Bromofluorobenzene
Concen: 34.06 ug/l
RT: 12.41 min Scan# 3364
Delta R.T. 0.00 min
Lab File: VN049491.D
Acq: 22 Jun 2018 15:06

Tgt Ion: 95 Resp: 608293
Ion Ratio Lower Upper
95 100
174 90.6 0.0 165.6
176 86.7 0.0 157.4





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3055

Delta R.T. 0.00 min

Lab File: VN049491.D

Acq: 22 Jun 2018 15:06

Instrument :

MSVOA_N

ClientSampleId :

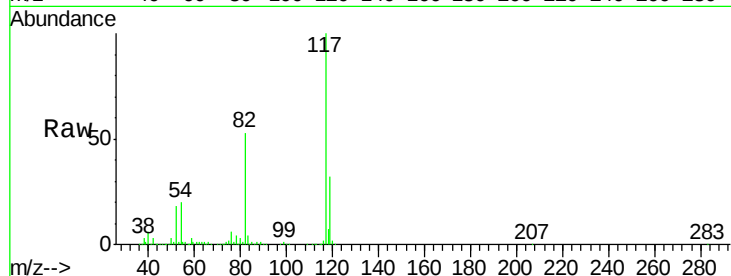
Tot Ion:117 Resp: 1495715

Ion	Ratio	Lower	Upper
117	100		
82	53.1	45.9	68.9
119	31.6	25.5	38.3

117 100

82 53.1 45.9 68.9

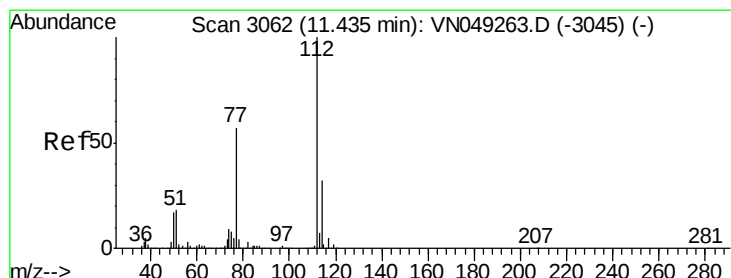
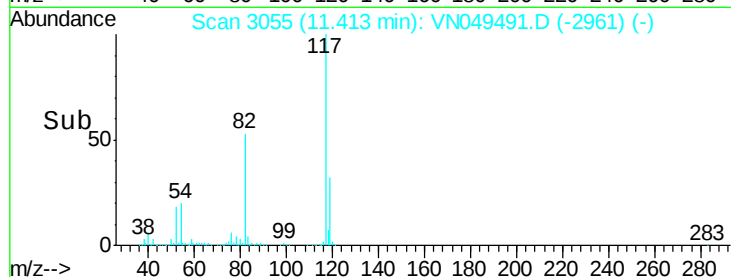
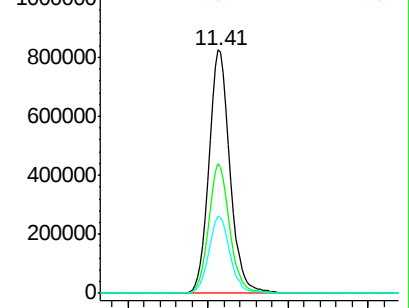
119 31.6 25.5 38.3



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



#65

Chlorobenzene

Concen: 0.21 ug/l

RT: 11.44 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN049491.D

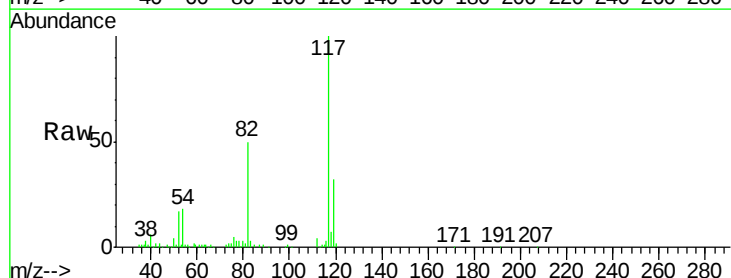
Acq: 22 Jun 2018 15:06

Tgt Ion:112 Resp: 8141

Ion	Ratio	Lower	Upper
112	100		
114	27.7	26.2	39.4

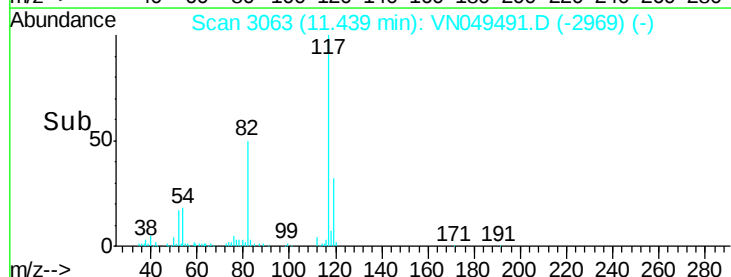
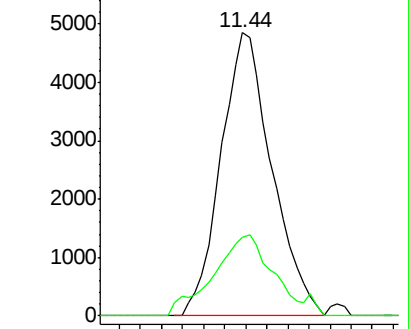
112 100

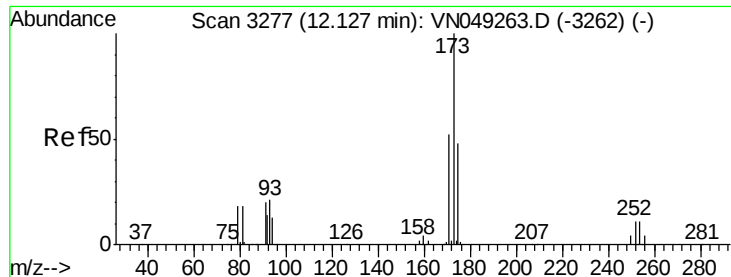
114 27.7 26.2 39.4



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V





#71

Bromoform

Concen: 0.45 ug/l

RT: 12.41 min Scan# 3365

Delta R.T. 0.28 min

Lab File: VN049491.D

Acq: 22 Jun 2018 15:06

Instrument :

MSVOA_N

ClientSampleId :

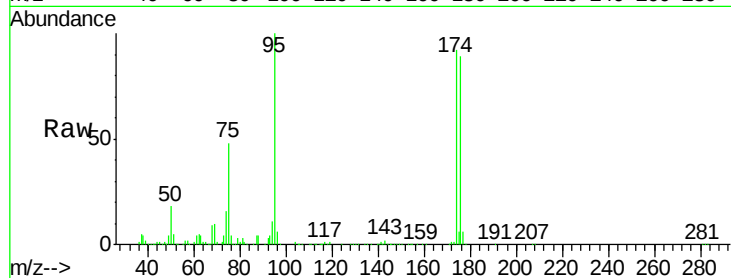
Tot Ion:173 Resp: 4201

Ion Ratio Lower Upper

173 100

175 645.7 24.5 73.5#

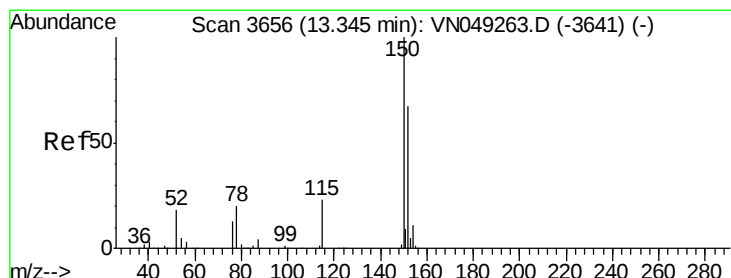
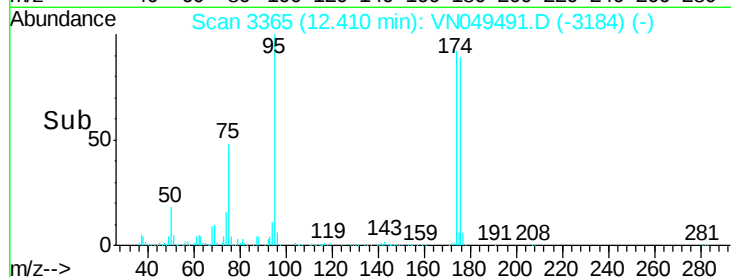
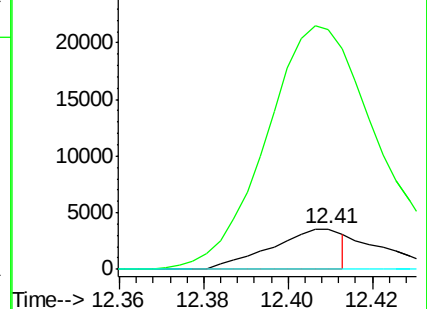
254 0.0 0.1 0.1#



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: VN049491.D

Acq: 22 Jun 2018 15:06

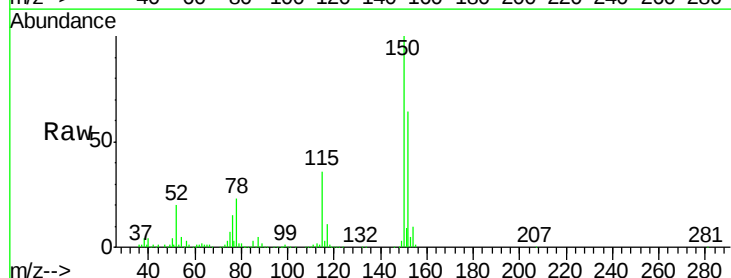
Tgt Ion:152 Resp: 406251

Ion Ratio Lower Upper

152 100

115 56.7 28.7 86.1

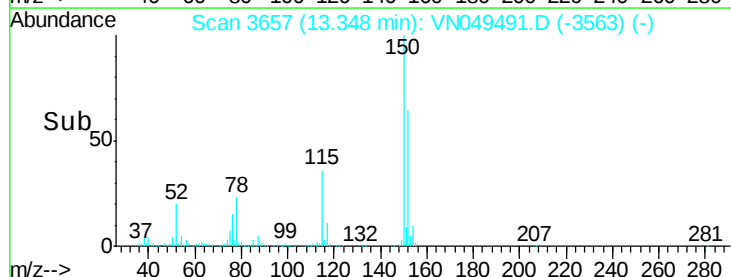
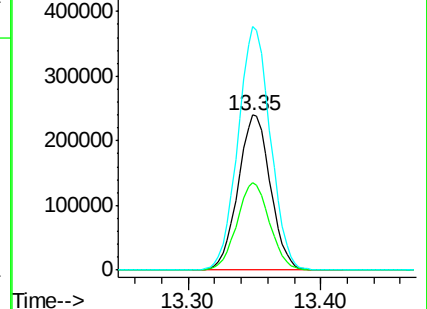
150 157.4 0.0 351.0

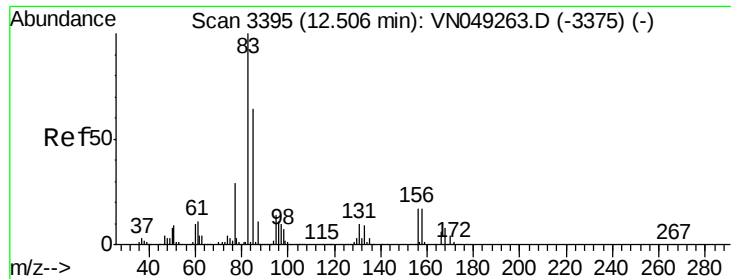


Abundance Ion 151.90 (151.60 to 152.60): V

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: 12.52 min Scan# 3399

Delta R.T. 0.01 min

Lab File: VN049491.D

Acq: 22 Jun 2018 15:06

Instrument :

MSVOA_N

ClientSampleId :

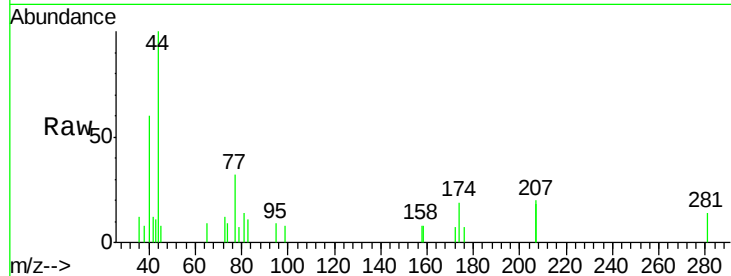
Tot Ion: 83 Resp: 157

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

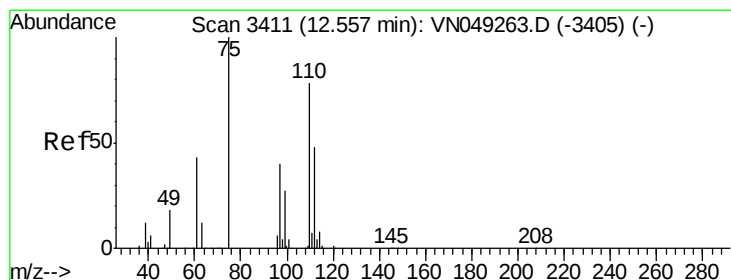
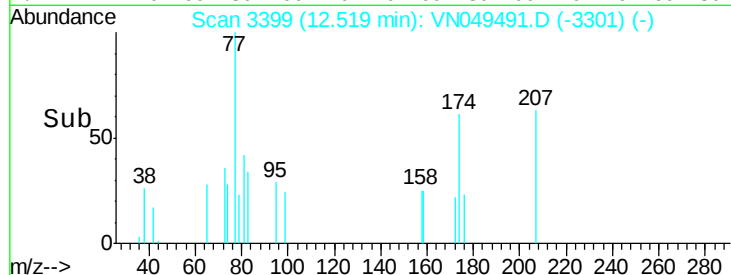
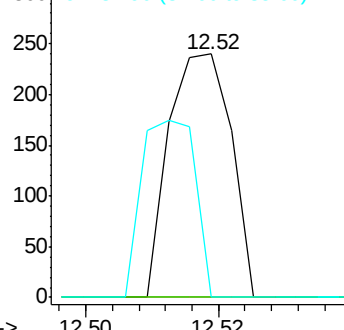
85 62.4 32.0 96.0



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 42.77 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. -0.15 min

Lab File: VN049491.D

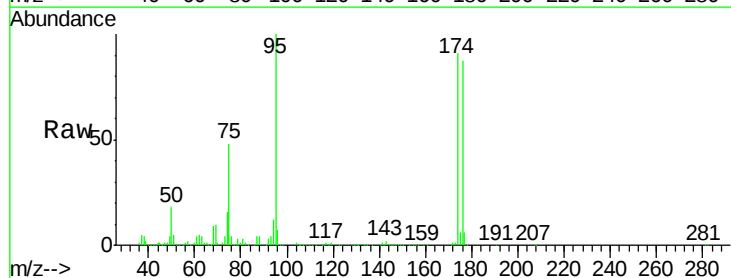
Acq: 22 Jun 2018 15:06

Tgt Ion: 75 Resp: 296472

Ion Ratio Lower Upper

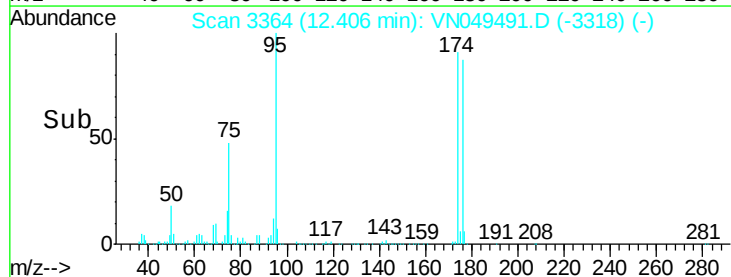
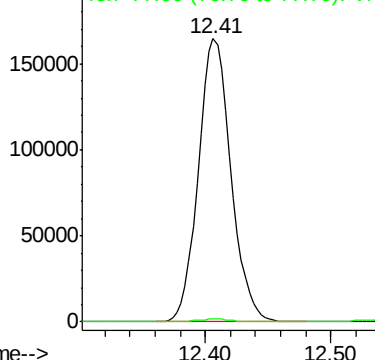
75 100

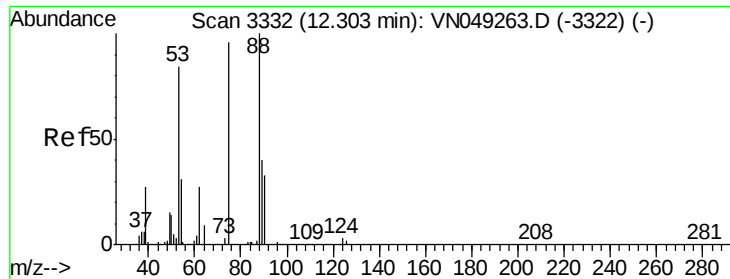
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

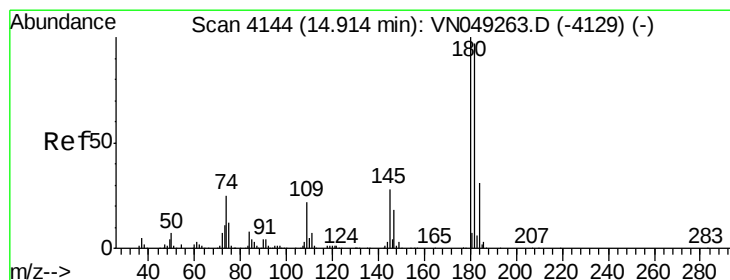
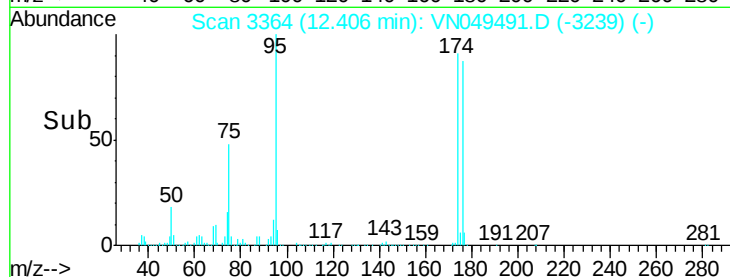
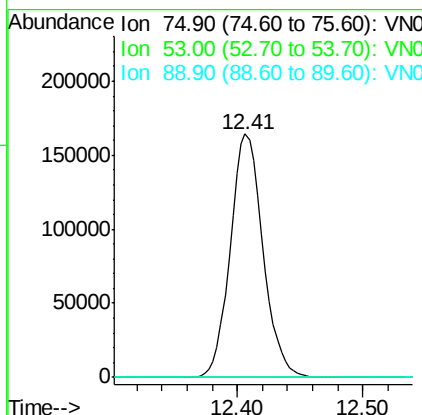
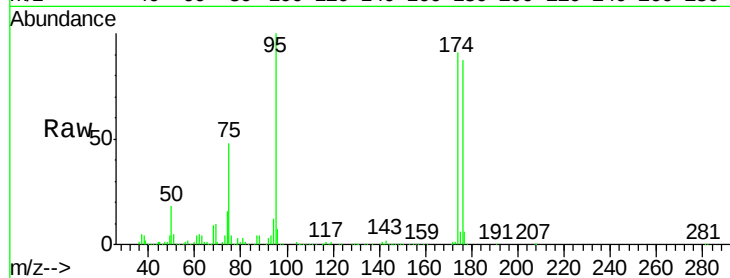




#81
trans-1,4-Dichloro-2-butene
Concen: 135.18 ug/l
RT: 12.41 min Scan# 3364
Delta R.T. 0.10 min
Lab File: VN049491.D
Acq: 22 Jun 2018 15:06

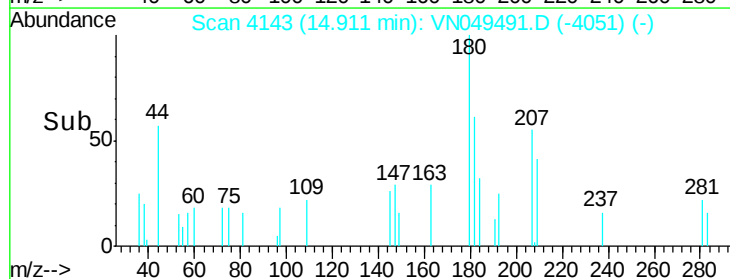
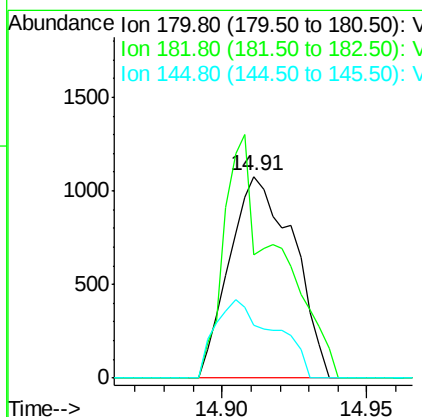
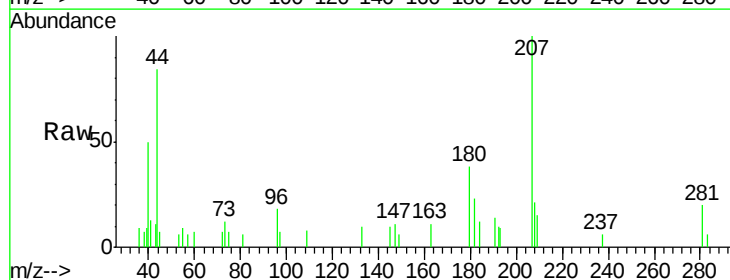
Instrument :
MSVOA_N
ClientSampled :

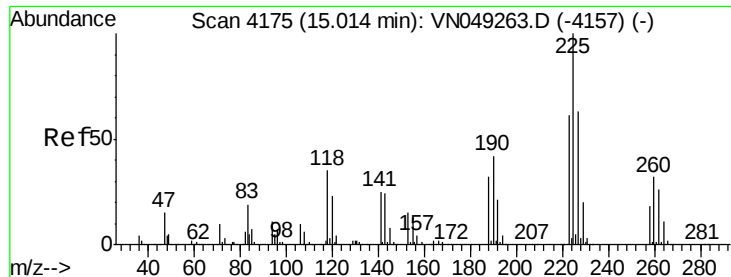
Tot Ion: 75 Resp: 296472
Ion Ratio Lower Upper
75 100
53 0.2 82.7 124.1#
89 0.0 36.5 54.7#



#93
1,2,4-Trichlorobenzene
Concen: 4.96 ug/l
RT: 14.91 min Scan# 4143
Delta R.T. -0.00 min
Lab File: VN049491.D
Acq: 22 Jun 2018 15:06

Tgt Ion:180 Resp: 1644
Ion Ratio Lower Upper
180 100
182 61.7 46.9 140.8
145 36.3 14.7 44.1





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.00 min Scan# 4171

Delta R.T. -0.01 min

Lab File: VN049491.D

Acq: 22 Jun 2018 15:06

Instrument :

MSVOA_N

ClientSampleId :

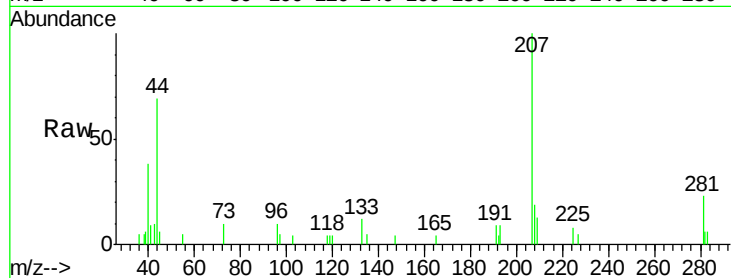
Tot Ion:225 Resp: 404

Ion Ratio Lower Upper

225 100

223 63.4 32.1 96.3

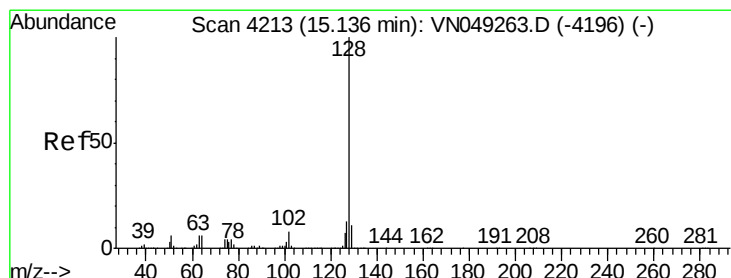
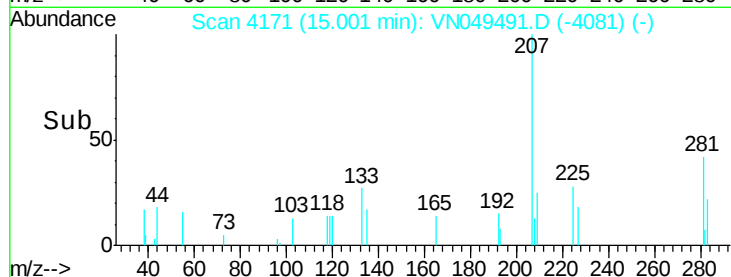
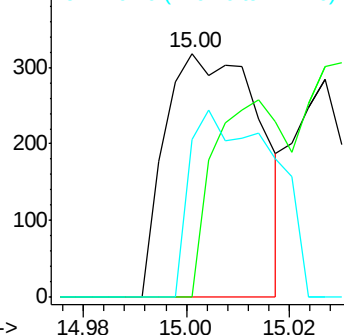
227 67.6 31.8 95.3



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 2.48 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

Lab File: VN049491.D

Acq: 22 Jun 2018 15:06

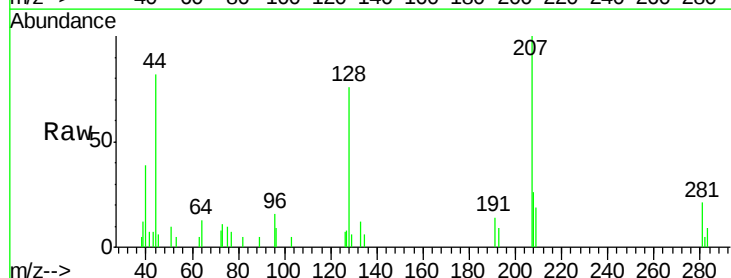
Tgt Ion:128 Resp: 4497

Ion Ratio Lower Upper

128 100

127 7.0 10.6 16.0#

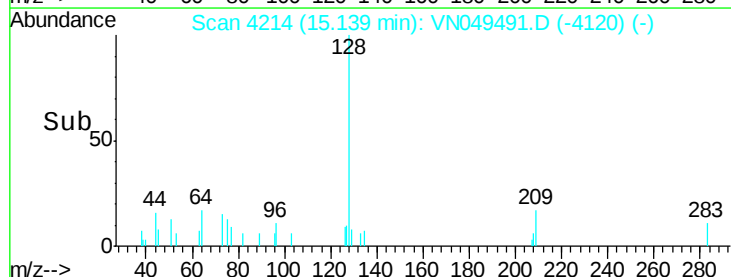
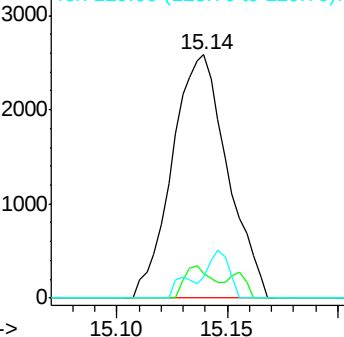
129 3.3 8.5 12.7#

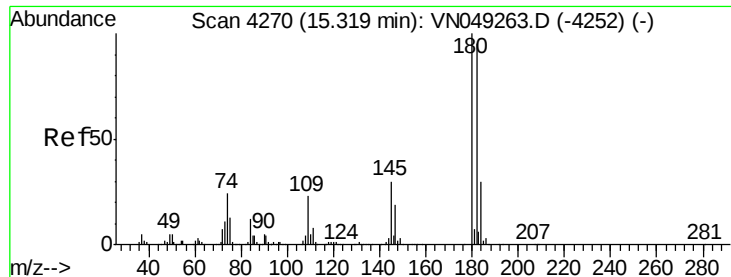


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 3.69 ug/l
 RT: 15.32 min Scan# 4271
 Delta R.T. 0.00 min
 Lab File: VN049491.D
 Acq: 22 Jun 2018 15:06

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	84.7	47.3	141.8
145	17.3	15.6	46.7

