

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071919\
 Data File : VN056842.D
 Acq On : 19 Jul 2019 19:10
 Operator : JC/SP
 Sample : K3868-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1

Quant Time: Jul 19 23:17:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 07:03:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	257024	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	467752	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	521778	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	186010	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	152609	53.68	ug/l	0.00
Spiked Amount 50.000			Recovery =	107.36%		
35) Dibromofluoromethane	7.59	113	140241	48.18	ug/l	0.00
Spiked Amount 50.000			Recovery =	96.36%		
50) Toluene-d8	10.09	98	604263	53.75	ug/l	0.00
Spiked Amount 50.000			Recovery =	107.50%		
62) 4-Bromofluorobenzene	12.40	95	222154	58.59	ug/l	0.00
Spiked Amount 50.000			Recovery =	117.18%		

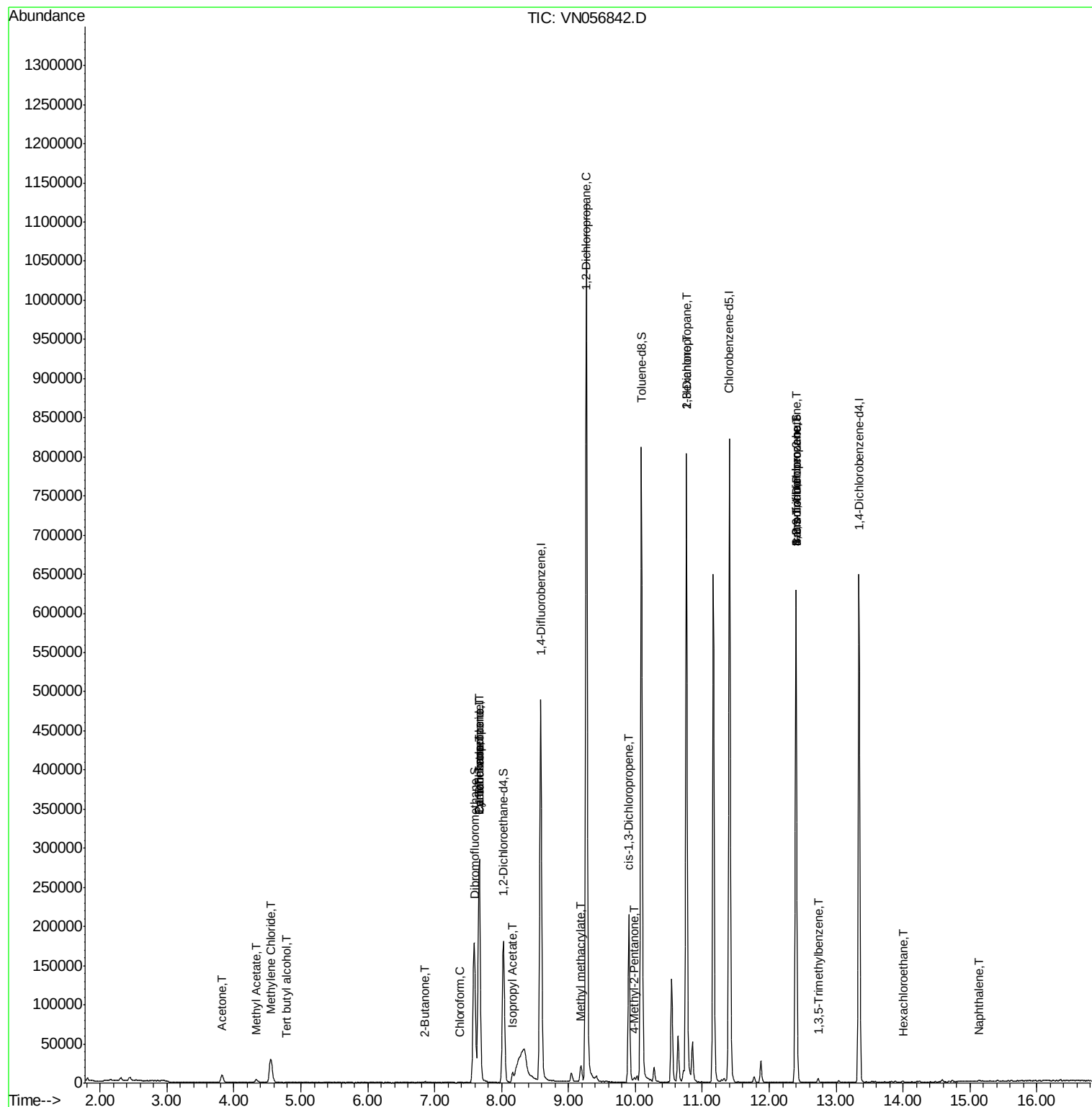
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.79	59	834	1.762	ug/l #	73
16) Acetone	3.82	43	17985	13.728	ug/l	100
18) Methyl Acetate	4.33	43	8114	1.819	ug/l #	71
20) Methylene Chloride	4.55	84	24533	8.569	ug/l	98
25) 2-Butanone	6.86	43	2709	1.414	ug/l #	88
30) Chloroform	7.37	83	1343	0.281	ug/l #	73
31) Cyclohexane	7.67	56	4053	0.892	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	16437	3.797	ug/l #	48
38) Carbon Tetrachloride	7.67	117	21350	5.260	ug/l #	15
43) Isopropyl Acetate	8.17	43	15792	2.355	ug/l	93
45) 1,2-Dichloropropane	9.27	63	1235	0.350	ug/l #	45
48) Methyl methacrylate	9.18	41	7971	2.458	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	2796	0.644	ug/l #	80
54) cis-1,3-Dichloropropene	9.90	75	41076	8.176	ug/l #	64
57) 1,3-Dichloropropane	10.76	76	8604	1.595	ug/l #	42
59) 2-Hexanone	10.76	43	117838	37.807	ug/l #	50
71) Bromoform	12.40	173	1454	0.486	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	103408	25.418	ug/l #	100
79) 2-Chlorotoluene	12.60	91	61	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	2774	0.218	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	103408	78.499	ug/l #	13
83) tert-Butylbenzene	13.03	119	94	Below Cal	#	67
90) Hexachloroethane	13.99	117	679	0.328	ug/l #	3
95) Naphthalene	15.13	128	2441	4.748	ug/l #	80

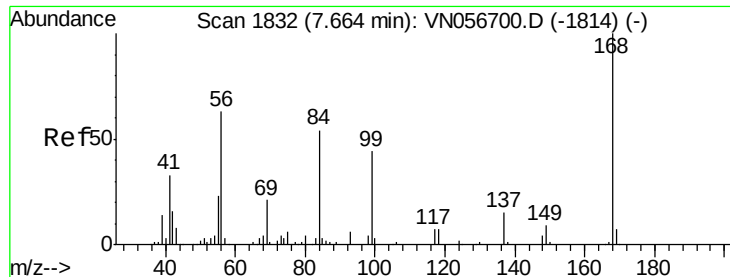
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jul 16 07:03:34 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056842.D

Acq: 19 Jul 2019 19:10

Instrument :

MSVOA_N

ClientSampled :

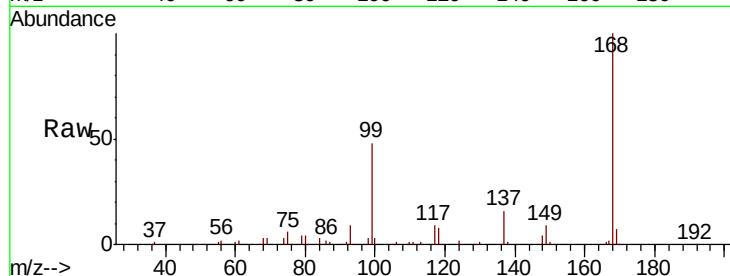
TP-1

Tot Ion:168 Resp: 257024

Ion Ratio Lower Upper

168 100

99 47.8 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

120000

100000

80000

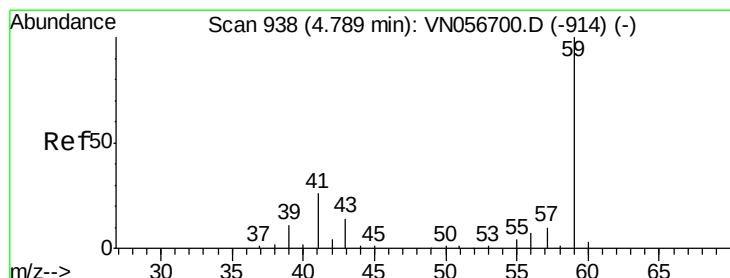
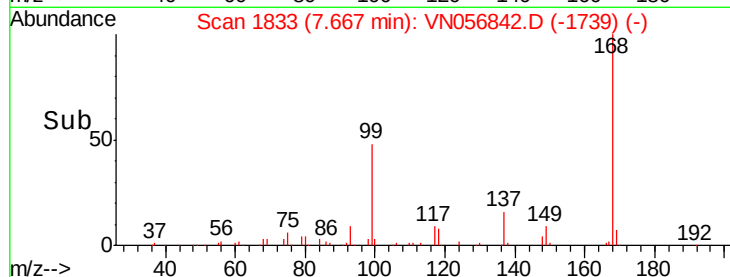
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.762 ug/l

RT: 4.79 min Scan# 937

Delta R.T. -0.00 min

Lab File: VN056842.D

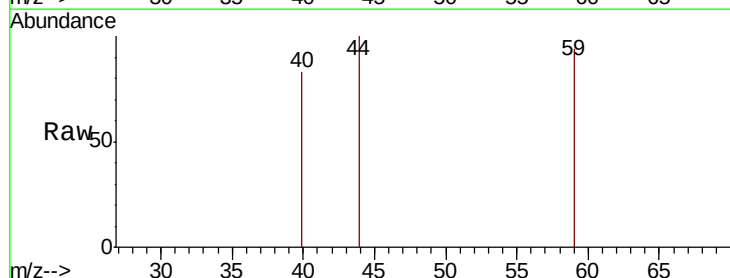
Acq: 19 Jul 2019 19:10

Tgt Ion: 59 Resp: 834

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.79

400

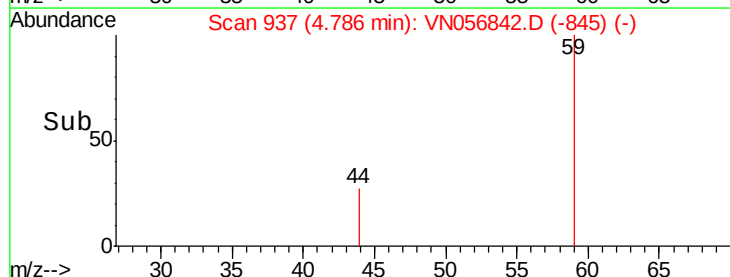
300

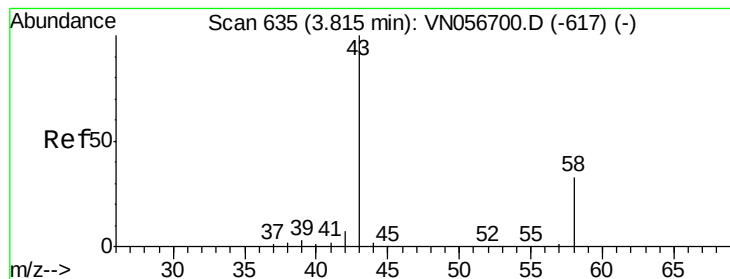
200

100

0

Time-->





#16

Acetone

Concen: 13.728 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN056842.D

Acq: 19 Jul 2019 19:10

Instrument :

MSVOA_N

ClientSampled :

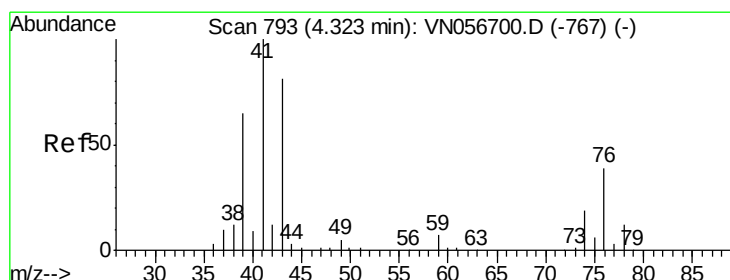
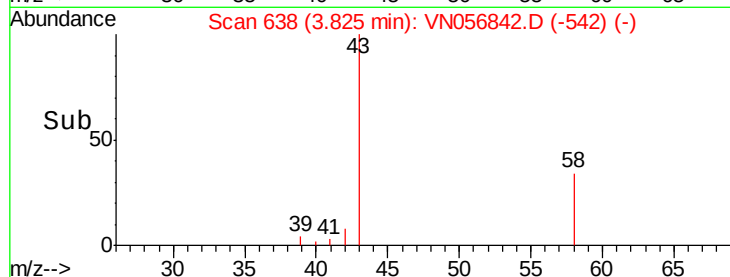
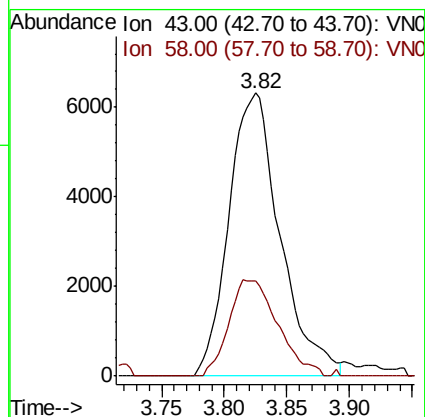
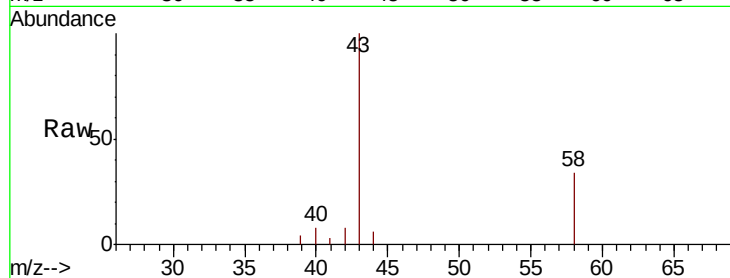
TP-1

Tot Ion: 43 Resp: 17985

Ion Ratio Lower Upper

43 100

58 33.6 26.7 40.1



#18

Methyl Acetate

Concen: 1.819 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN056842.D

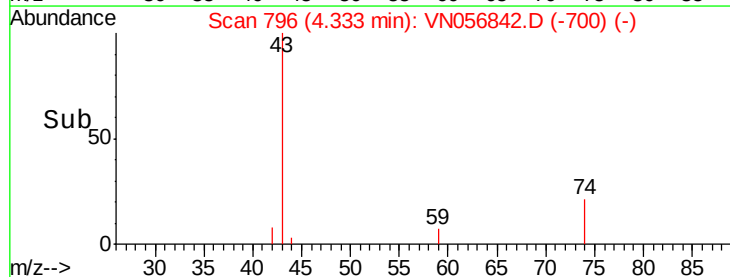
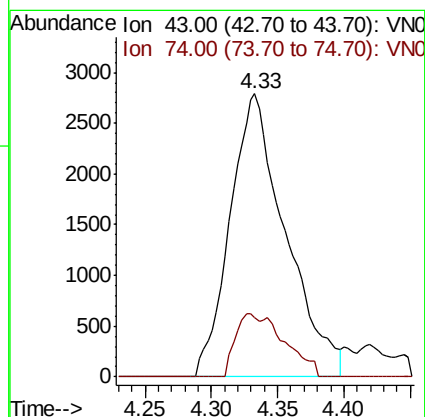
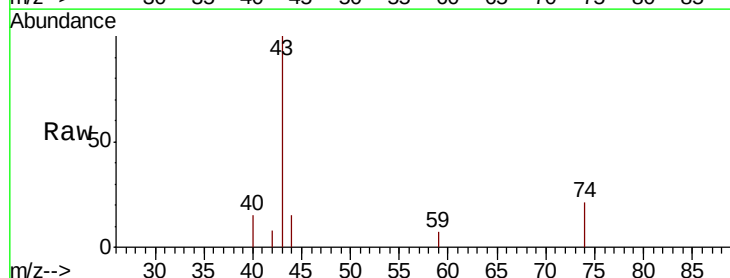
Acq: 19 Jul 2019 19:10

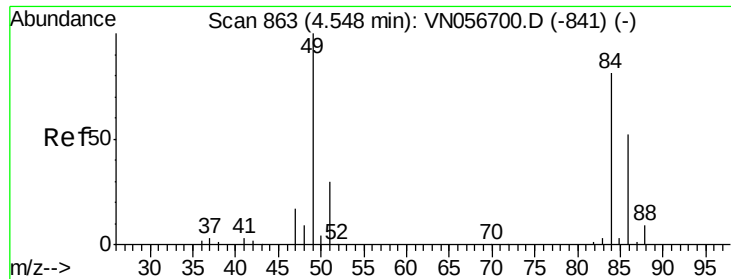
Tgt Ion: 43 Resp: 8114

Ion Ratio Lower Upper

43 100

74 9.4 18.9 28.3#

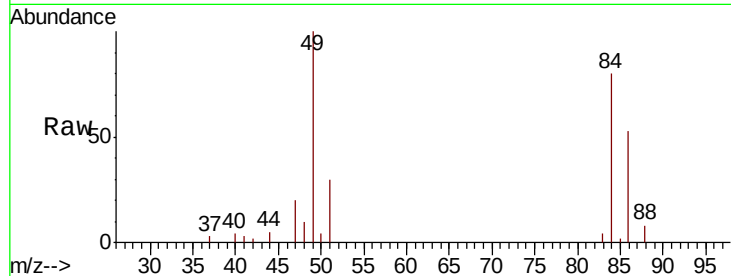




#20
Methvlene Chloride
Concen: 8.569 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.01 min
Lab File: VN056842.D
Acq: 19 Jul 2019 19:10

Instrument :
MSVOA_N
ClientSampled :
TP-1

Tot Ion:	84	Resp:	24533
Ion	Ratio	Lower	Upper
84	100		
49	125.2	98.2	147.4
51	37.4	29.6	44.4
86	66.7	51.0	76.4



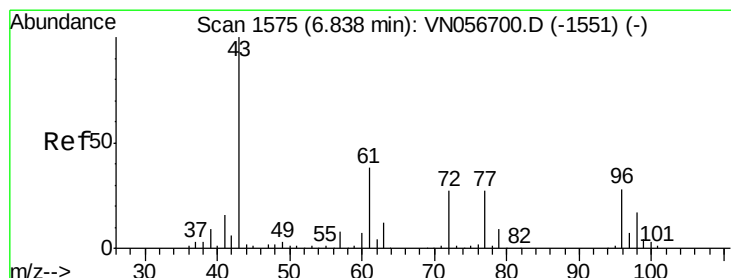
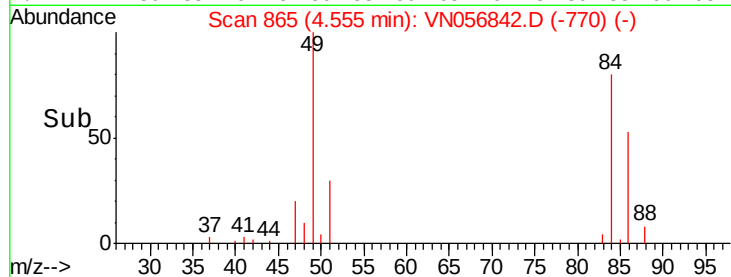
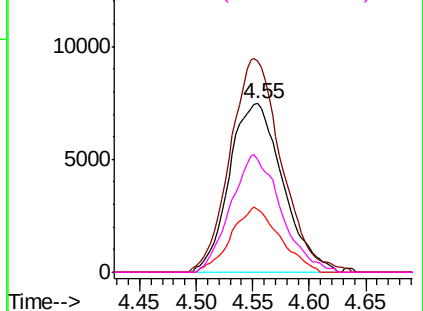
Abundance

Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

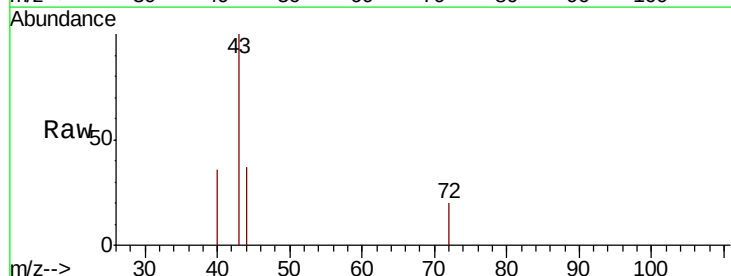
Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO



#25
2-Butanone
Concen: 1.414 ug/l
RT: 6.86 min Scan# 1583
Delta R.T. 0.03 min
Lab File: VN056842.D
Acq: 19 Jul 2019 19:10

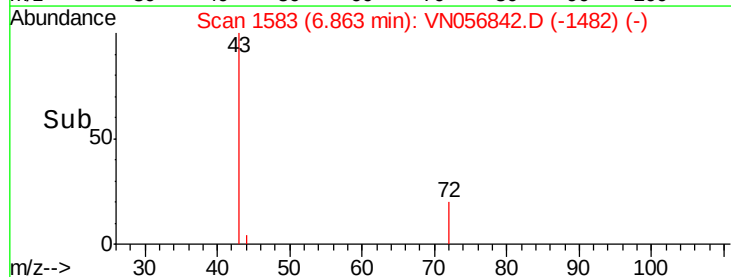
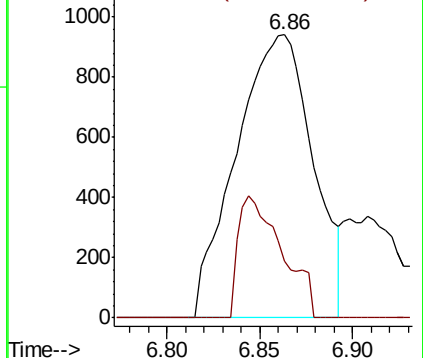
Tgt Ion:	43	Resp:	2709
Ion	Ratio	Lower	Upper
43	100		
72	20.2	21.2	31.8#

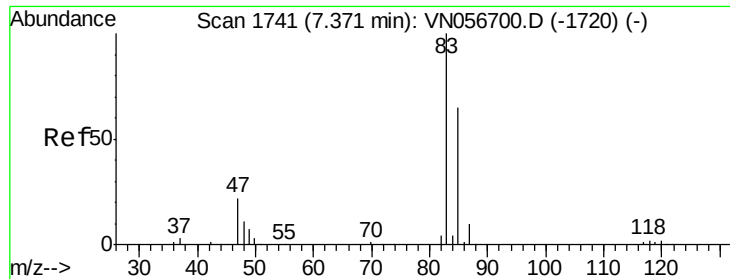


Abundance

Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO

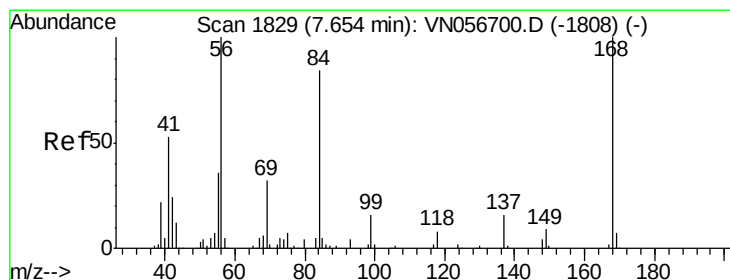
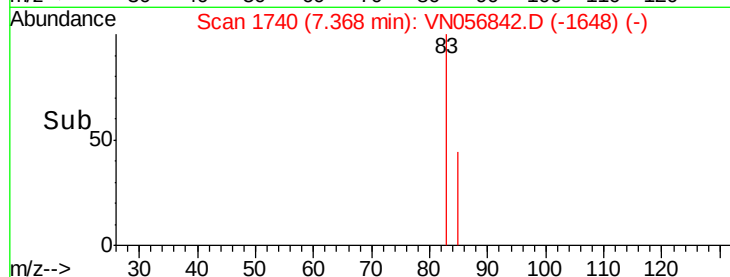
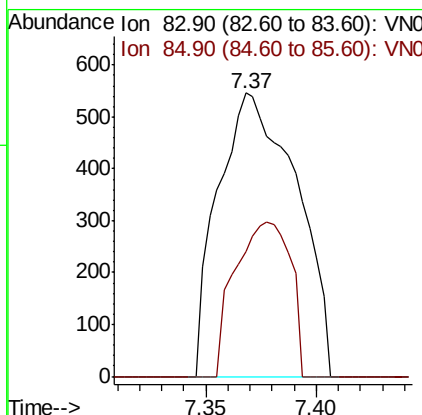
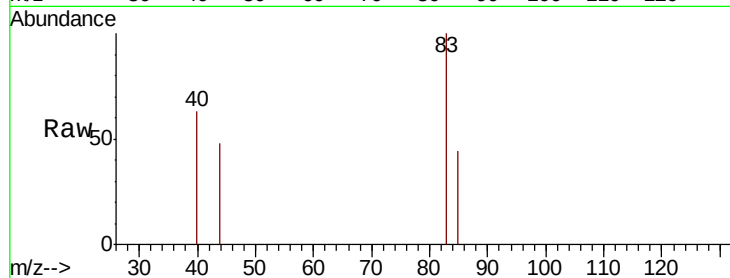




#30
Chloroform
Concen: 0.281 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VN056842.D
Acq: 19 Jul 2019 19:10

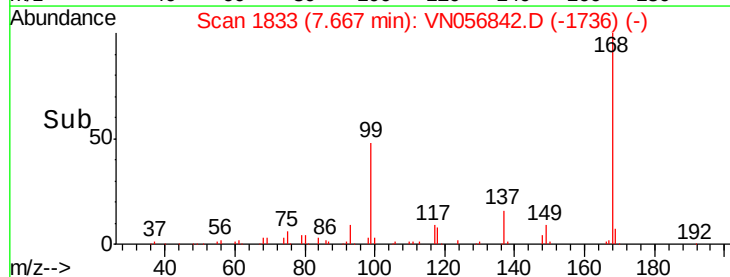
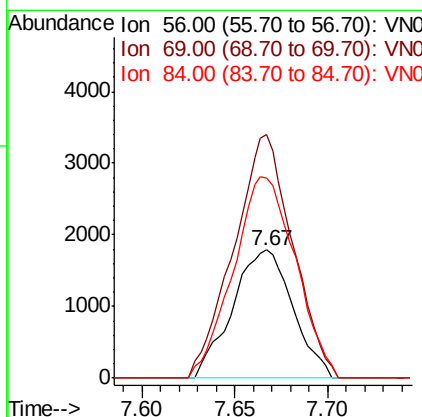
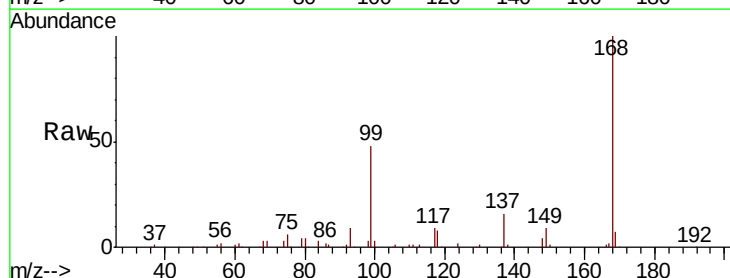
Instrument :
MSVOA_N
ClientSampled :
TP-1

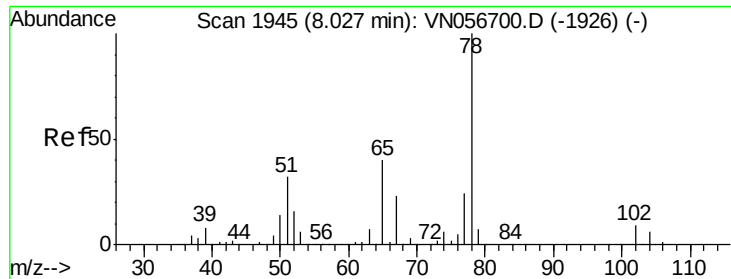
Tot Ion: 83 Resp: 1343
Ion Ratio Lower Upper
83 100
85 44.0 51.9 77.9#



#31
Cyclohexane
Concen: 0.892 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN056842.D
Acq: 19 Jul 2019 19:10

Tgt Ion: 56 Resp: 4053
Ion Ratio Lower Upper
56 100
69 190.1 25.8 38.8#
84 155.8 67.4 101.0#

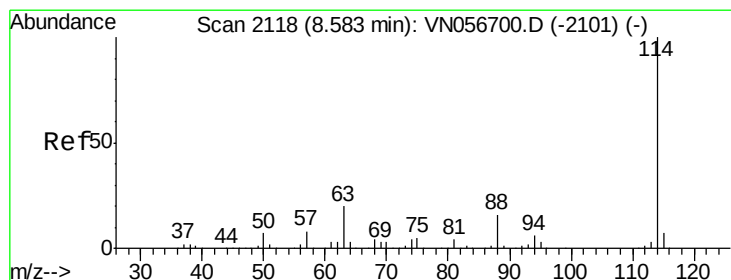
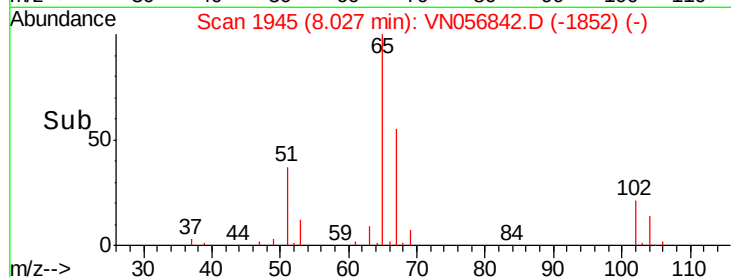
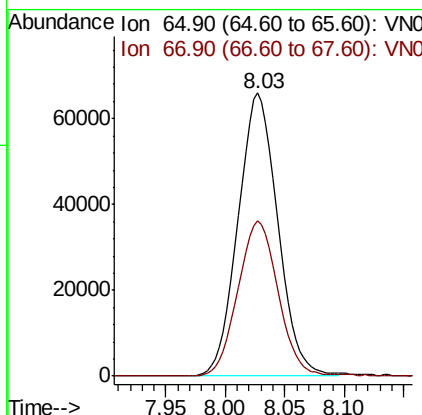
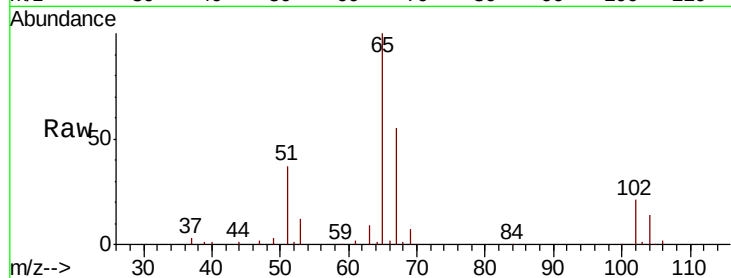




#33
 1,2-Dichloroethane-d4
 Concen: 53.678 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN056842.D
 Acq: 19 Jul 2019 19:10

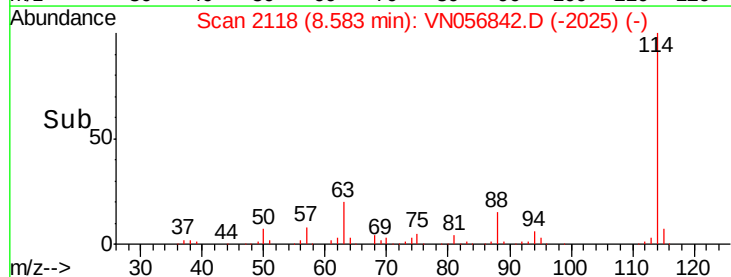
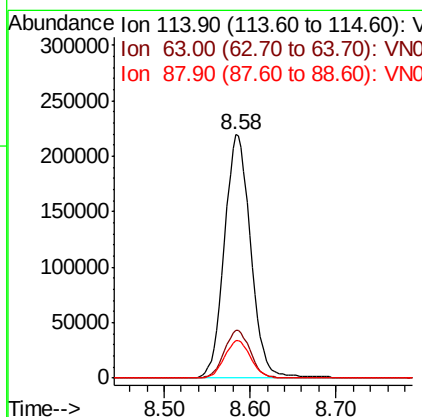
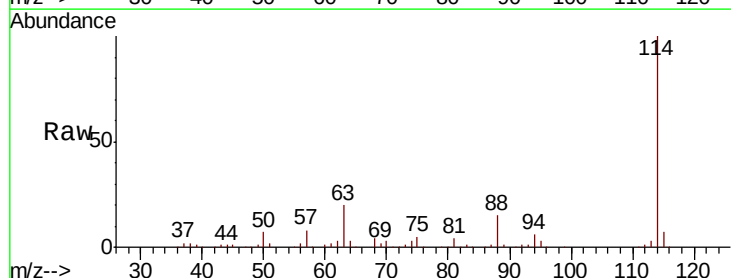
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1

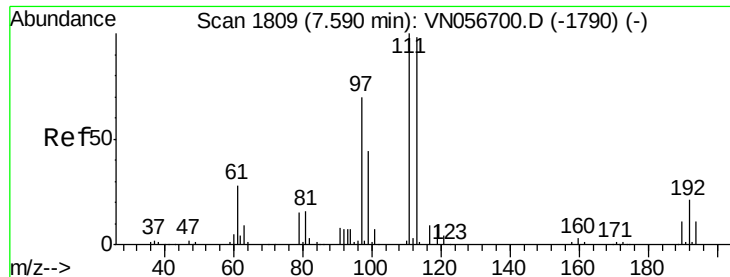
Tot Ion: 65 Resp: 152609
 Ion Ratio Lower Upper
 65 100
 67 55.4 0.0 109.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN056842.D
 Acq: 19 Jul 2019 19:10

Tgt Ion: 114 Resp: 467752
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 39.4
 88 15.4 0.0 31.2

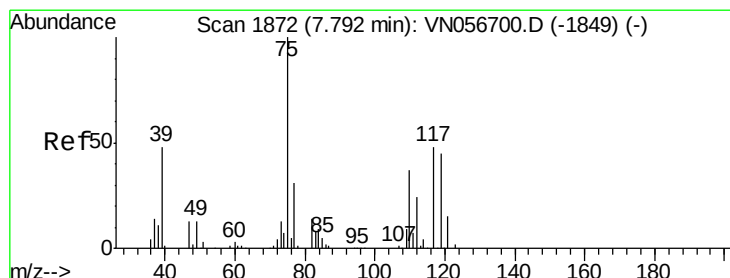
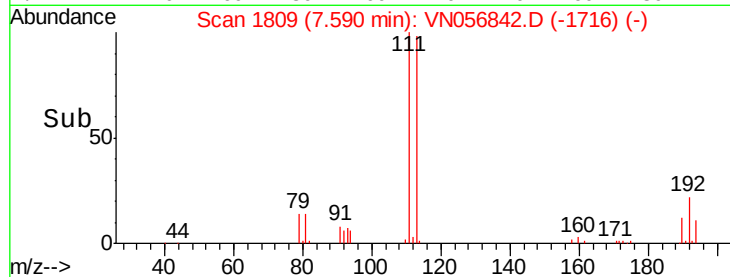
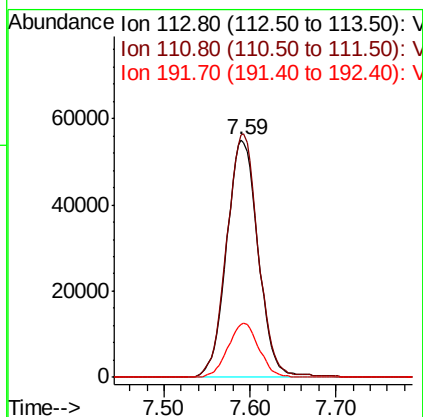
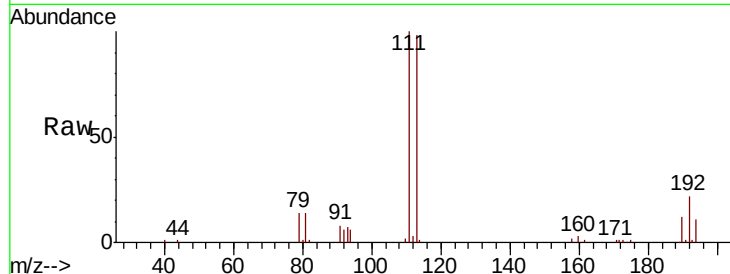




#35
 Dibromofluoromethane
 Concen: 48.178 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN056842.D
 Acq: 19 Jul 2019 19:10

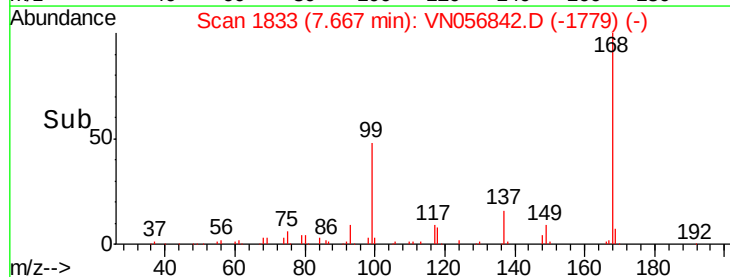
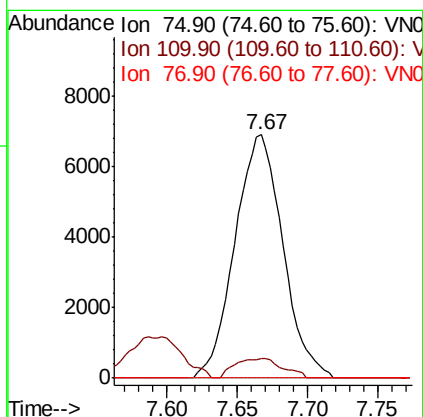
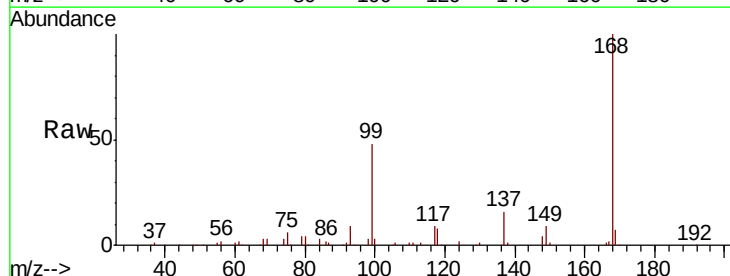
Instrument :
 MSVOA_N
 ClientSampled :
 TP-1

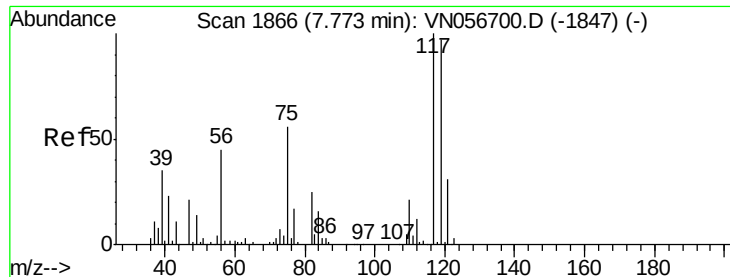
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.8	122.6
192	22.4	17.5	26.3



#36
 1,1-Dichloropropene
 Concen: 3.797 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN056842.D
 Acq: 19 Jul 2019 19:10

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.0	18.4	55.4#
77	0.0	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 5.260 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN056842.D

Acq: 19 Jul 2019 19:10

Instrument :

MSVOA_N

ClientSampleId :

TP-1

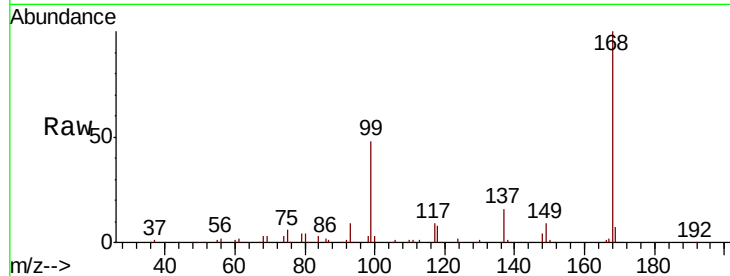
Tot Ion:117 Resp: 21350

Ion Ratio Lower Upper

117 100

119 4.8 77.5 116.3#

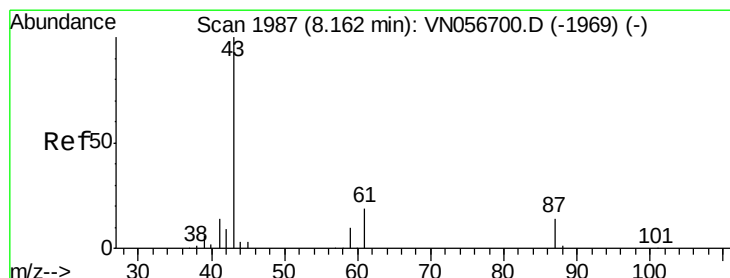
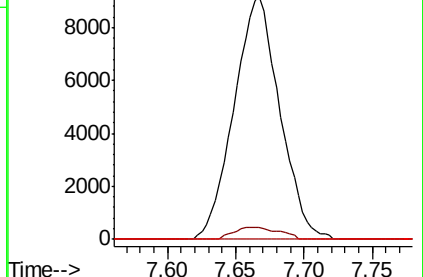
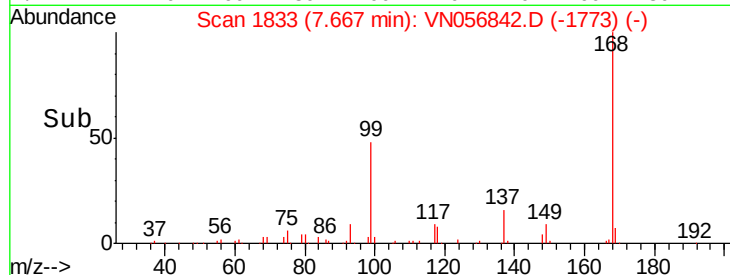
121 0.0 24.7 37.1#



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: 2.355 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN056842.D

Acq: 19 Jul 2019 19:10

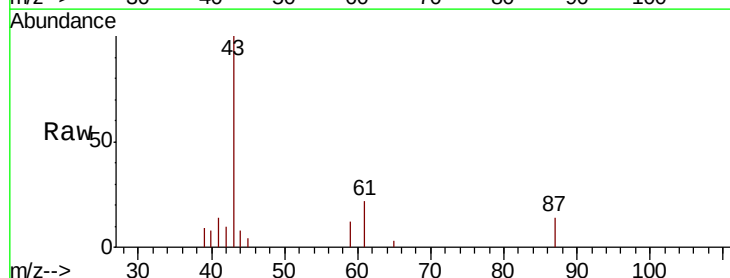
Tgt Ion: 43 Resp: 15792

Ion Ratio Lower Upper

43 100

61 22.7 22.3 33.5

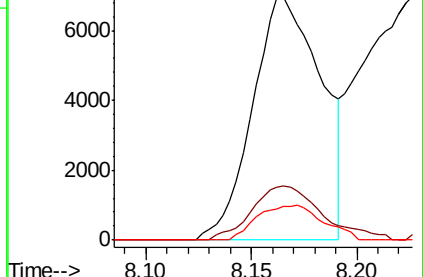
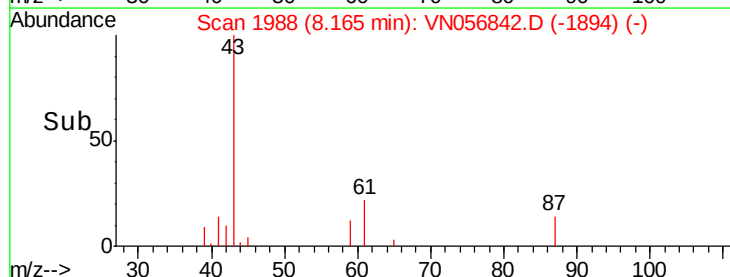
87 13.6 11.1 16.7

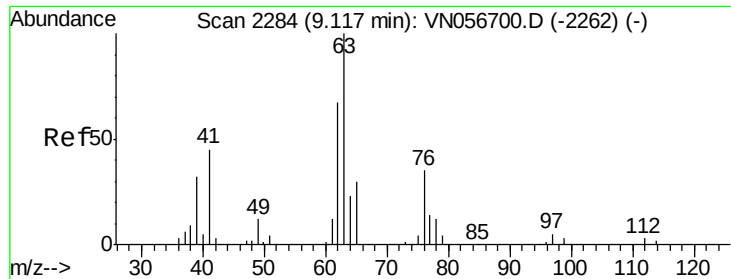


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

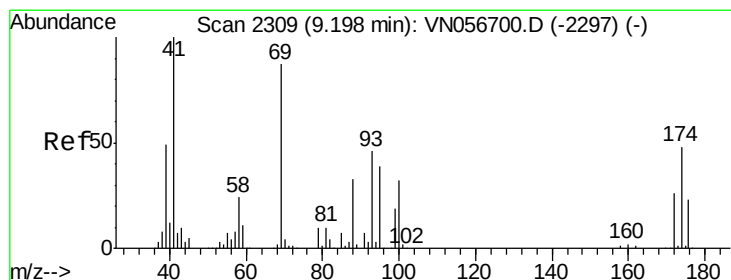
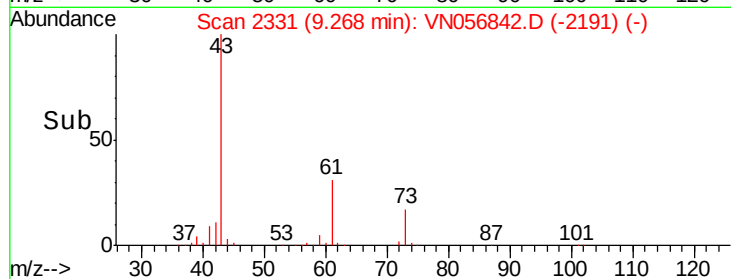
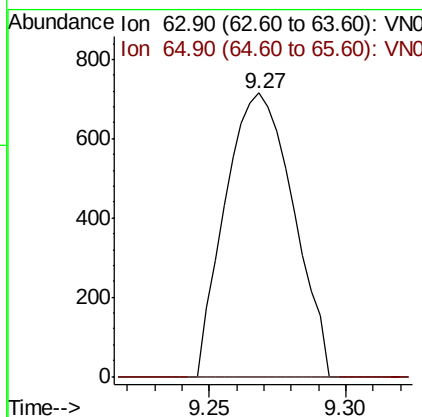
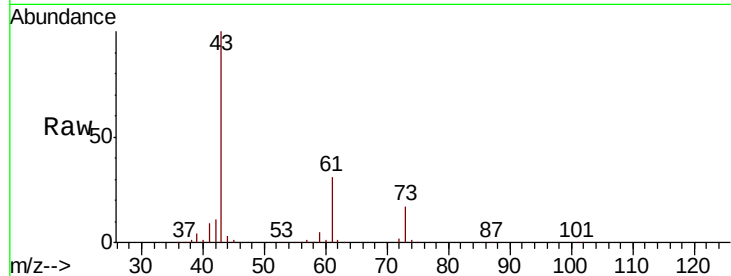




#45
 1,2-Dichloropropane
 Concen: 0.350 ug/l
 RT: 9.27 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN056842.D
 Acq: 19 Jul 2019 19:10

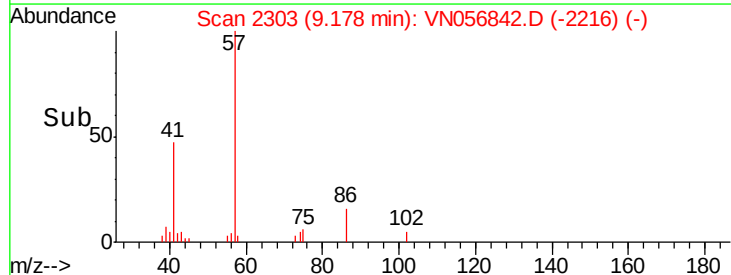
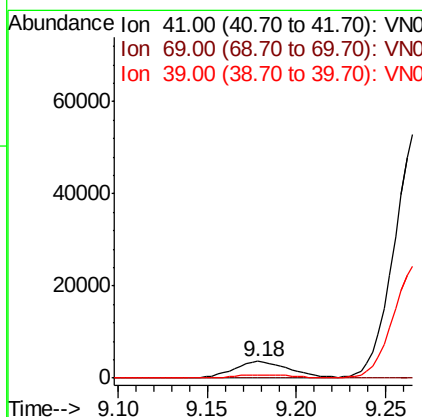
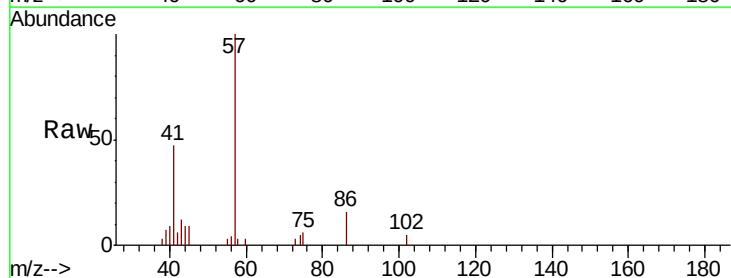
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1

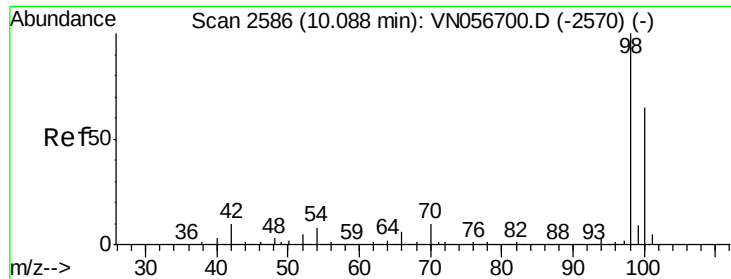
Tot Ion: 63 Resp: 1235
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.0 36.0#



#48
 Methyl methacrylate
 Concen: 2.458 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN056842.D
 Acq: 19 Jul 2019 19:10

Tgt Ion: 41 Resp: 7971
 Ion Ratio Lower Upper
 41 100
 69 0.0 71.4 107.0#
 39 0.0 41.2 61.8#

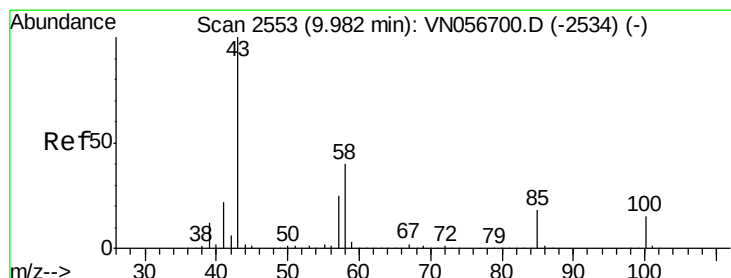
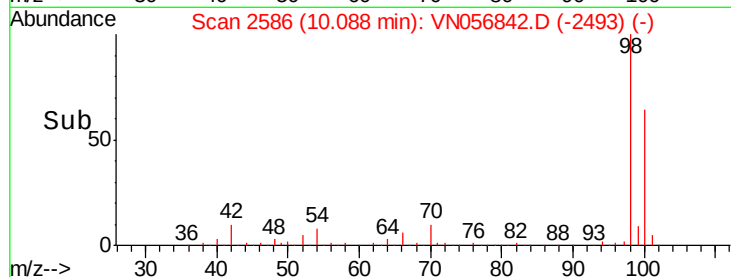
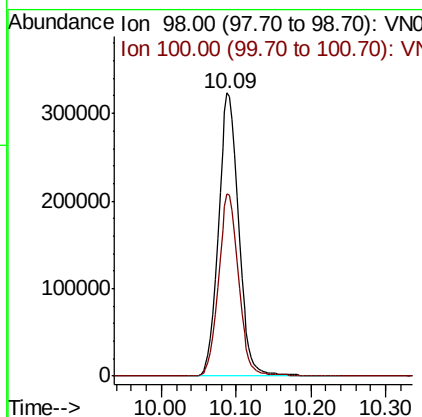
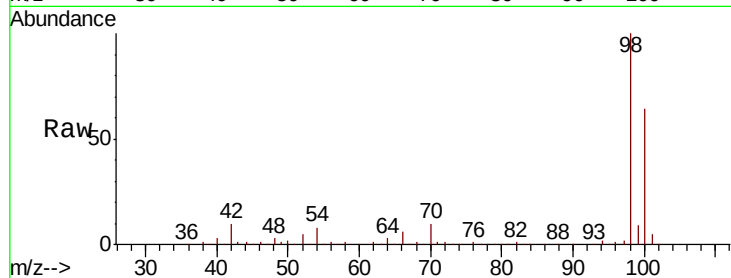




#50
Toluene-d8
Concen: 53.747 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN056842.D
Acq: 19 Jul 2019 19:10

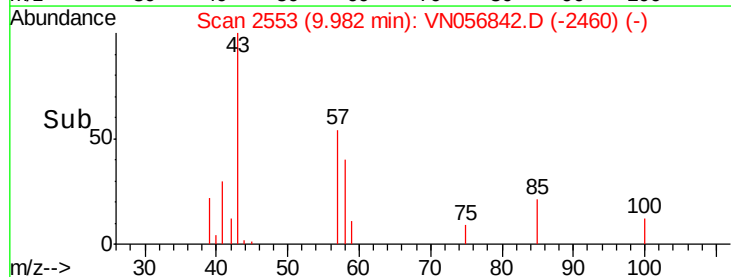
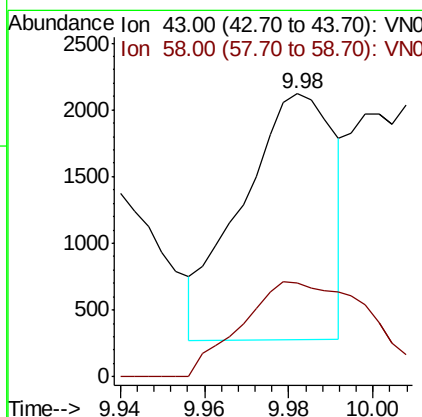
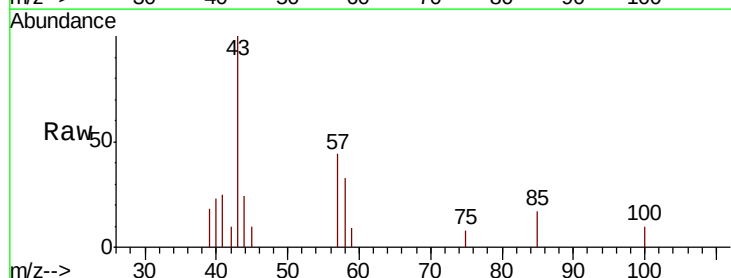
Instrument :
MSVOA_N
ClientSampled :
TP-1

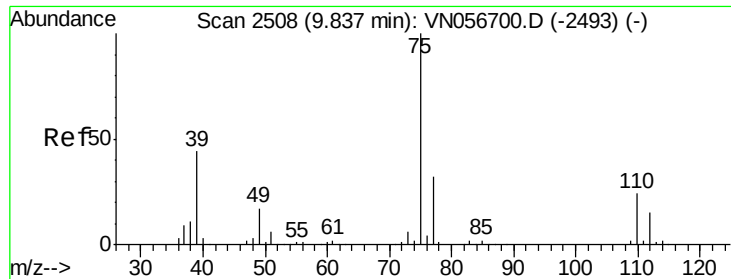
Tot Ion: 98 Resp: 604263
Ion Ratio Lower Upper
98 100
100 64.1 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 0.644 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. -0.00 min
Lab File: VN056842.D
Acq: 19 Jul 2019 19:10

Tgt Ion: 43 Resp: 2796
Ion Ratio Lower Upper
43 100
58 52.4 32.0 48.0#





#54

cis-1,3-Dichloropropene

Concen: 8.176 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.06 min

Lab File: VN056842.D

Acq: 19 Jul 2019 19:10

Instrument :

MSVOA_N

ClientSampleId :

TP-1

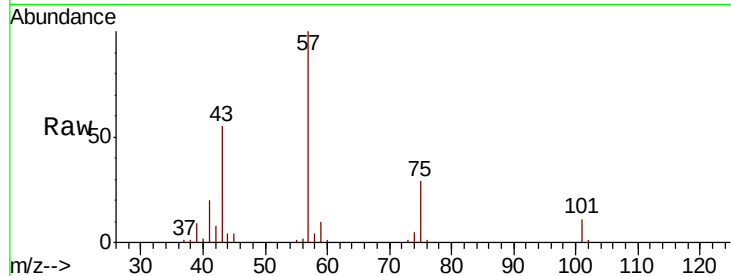
Tot Ion: 75 Resp: 41076

Ion Ratio Lower Upper

75 100

77 0.0 26.0 39.0#

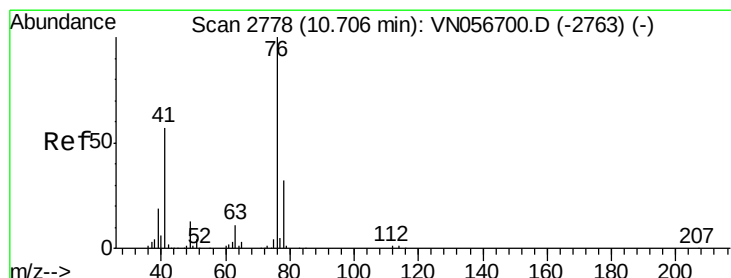
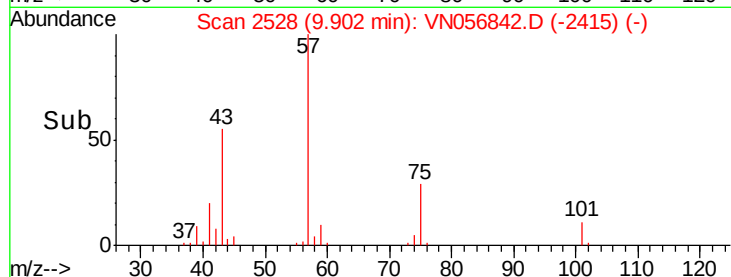
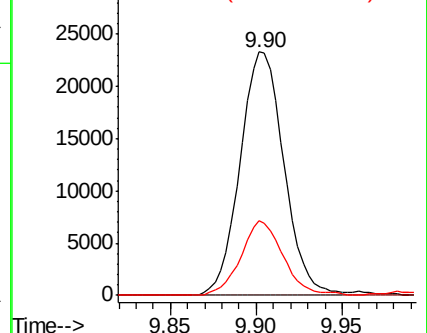
39 30.6 35.1 52.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.595 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN056842.D

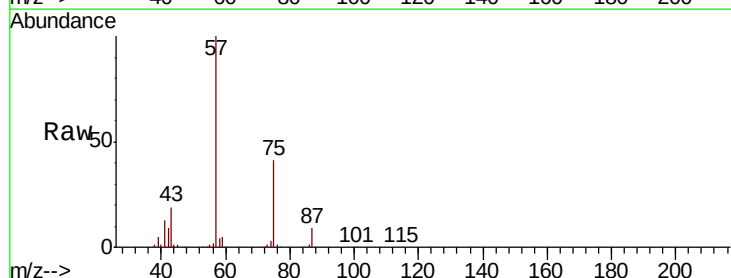
Acq: 19 Jul 2019 19:10

Tgt Ion: 76 Resp: 8604

Ion Ratio Lower Upper

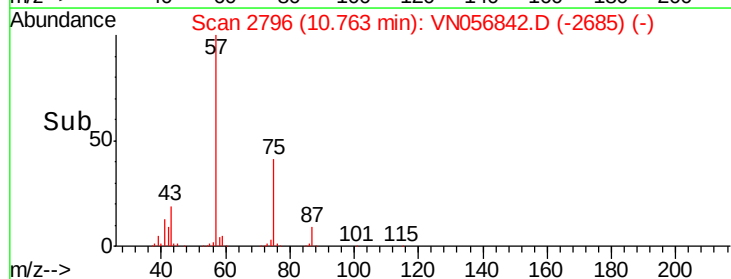
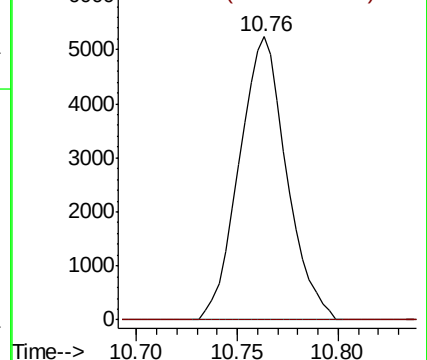
76 100

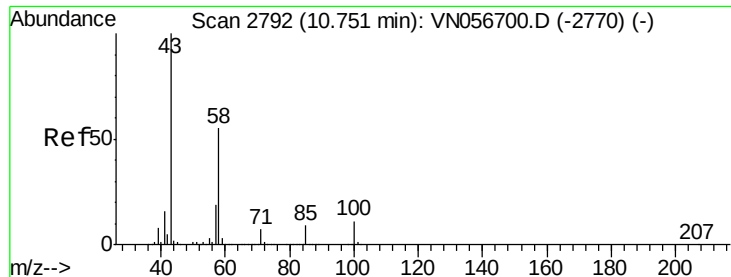
78 0.0 26.0 39.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

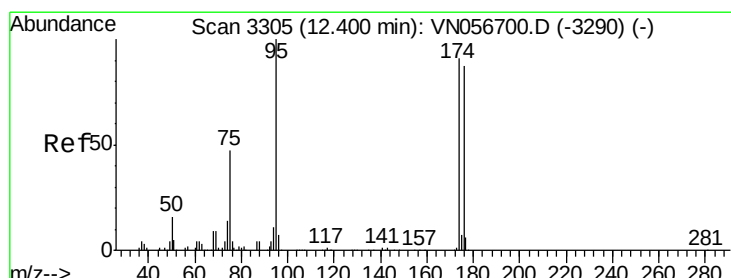
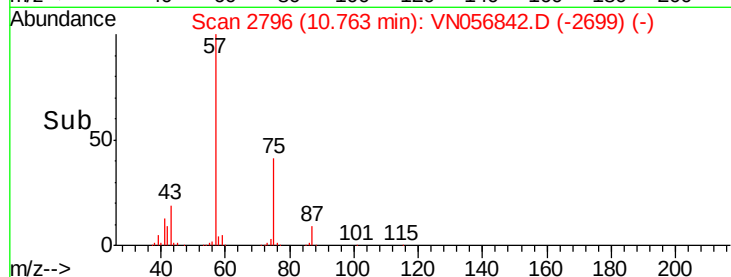
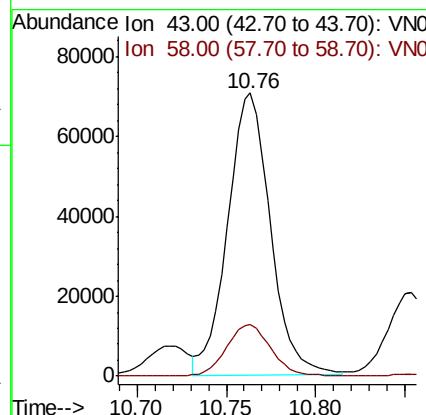
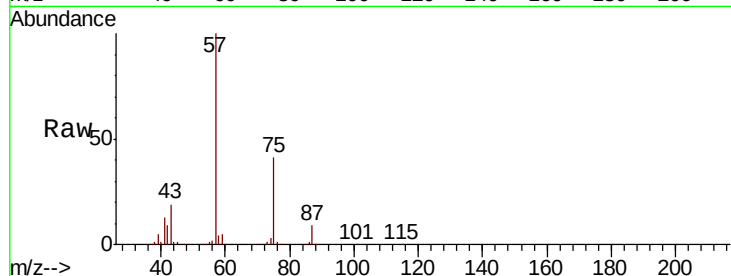




#59
2-Hexanone
Concen: 37.807 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN056842.D
Acq: 19 Jul 2019 19:10

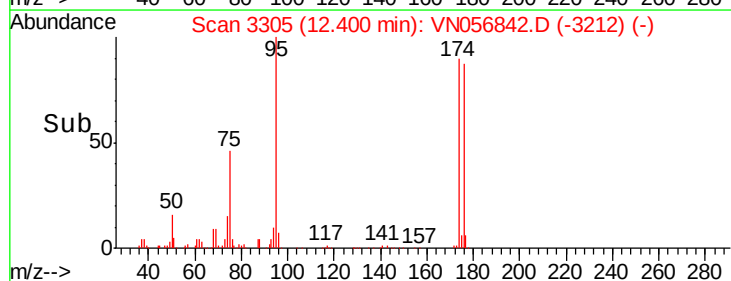
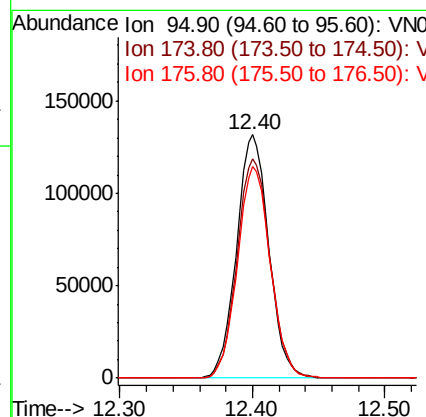
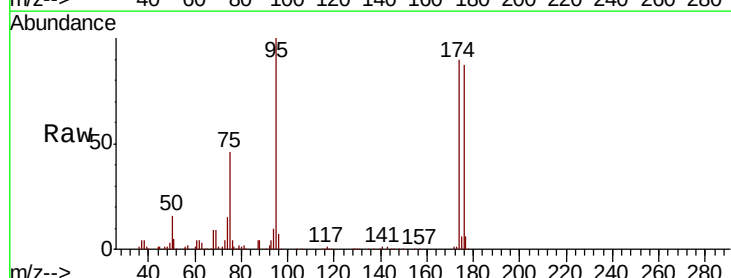
Instrument :
MSVOA_N
ClientSampleId :
TP-1

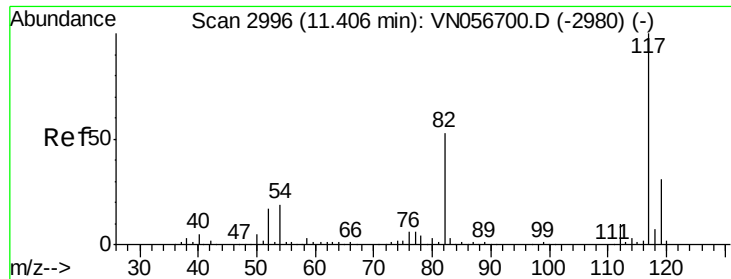
Tot Ion: 43 Resp: 117838
Ion Ratio Lower Upper
43 100
58 19.1 27.9 83.6#



#62
4-Bromofluorobenzene
Concen: 58.594 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN056842.D
Acq: 19 Jul 2019 19:10

Tgt Ion: 95 Resp: 222154
Ion Ratio Lower Upper
95 100
174 92.4 0.0 180.0
176 88.7 0.0 173.2

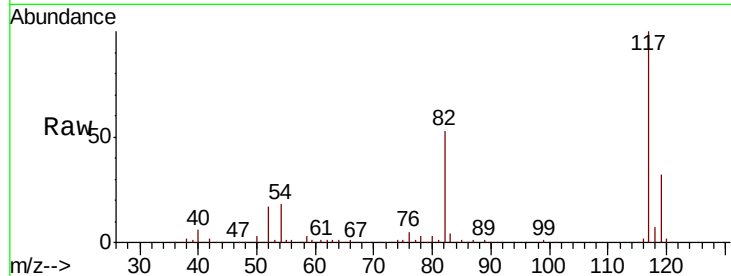




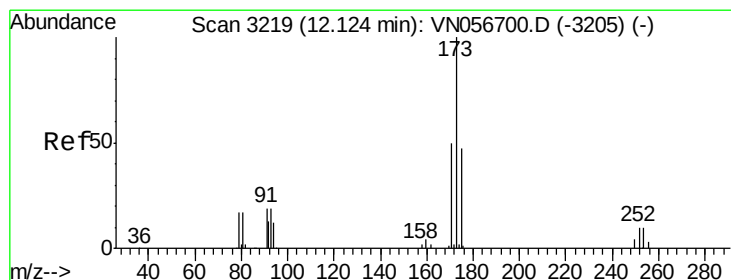
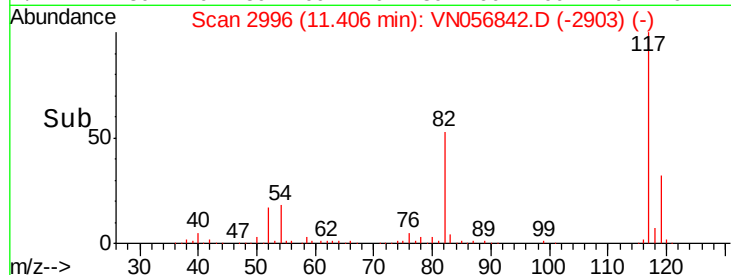
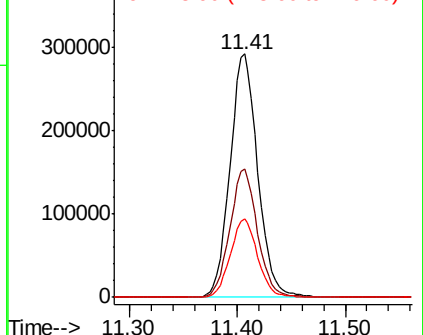
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056842.D
Acq: 19 Jul 2019 19:10

Instrument :
MSVOA_N
ClientSampleId :
TP-1

Tot Ion:117 Resp: 521778
Ion Ratio Lower Upper
117 100
82 52.6 42.2 63.2
119 32.1 25.2 37.8

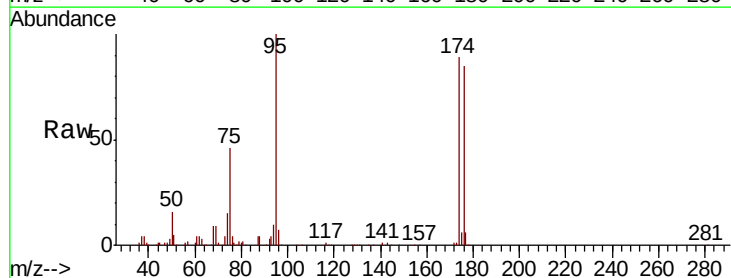


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

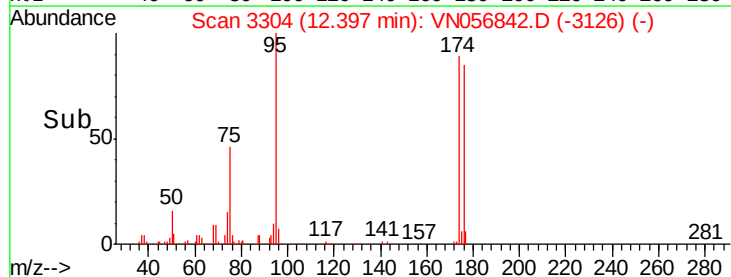
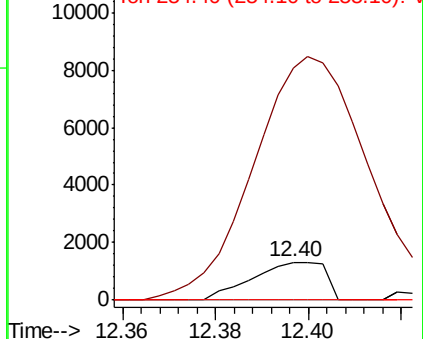


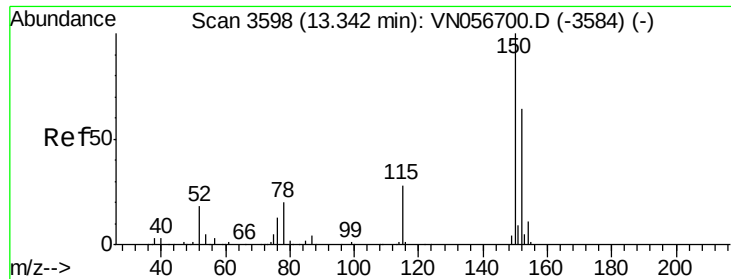
#71
Bromoform
Concen: 0.486 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN056842.D
Acq: 19 Jul 2019 19:10

Tgt Ion:173 Resp: 1454
Ion Ratio Lower Upper
173 100
175 821.7 23.8 71.4#
254 0.0 0.0 0.0



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: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN056842.D

Acq: 19 Jul 2019 19:10

Instrument :

MSVOA_N

ClientSampleId :

TP-1

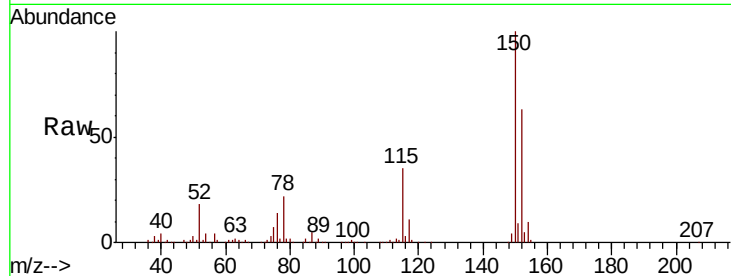
Tot Ion:152 Resp: 186010

Ion Ratio Lower Upper

152 100

115 56.3 28.2 84.7

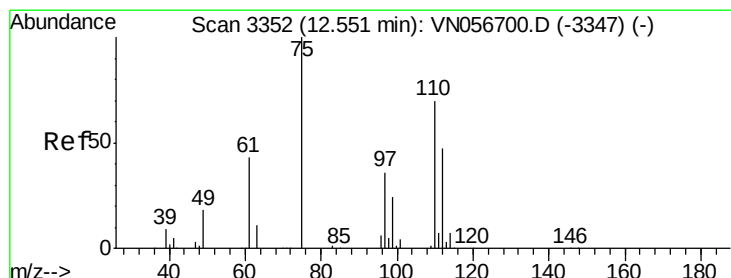
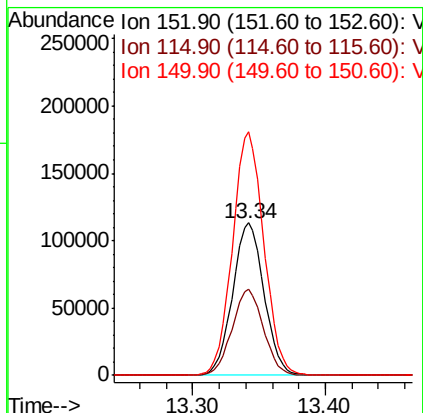
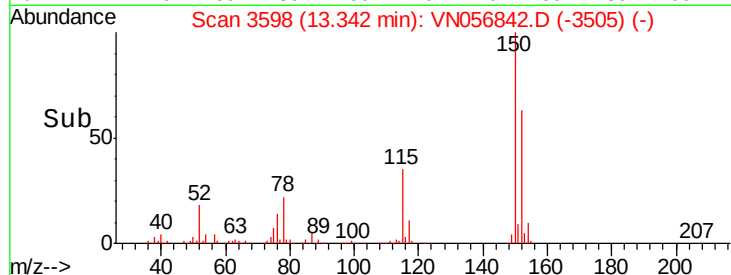
150 159.1 0.0 345.8



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



#76

1,2,3-Trichloropropane

Concen: 25.418 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056842.D

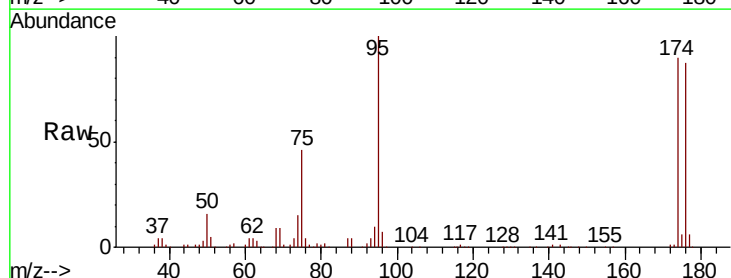
Acq: 19 Jul 2019 19:10

Tgt Ion: 75 Resp: 103408

Ion Ratio Lower Upper

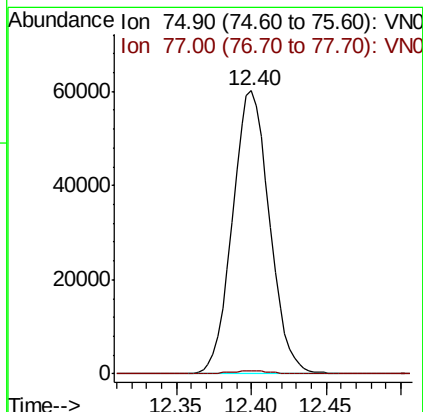
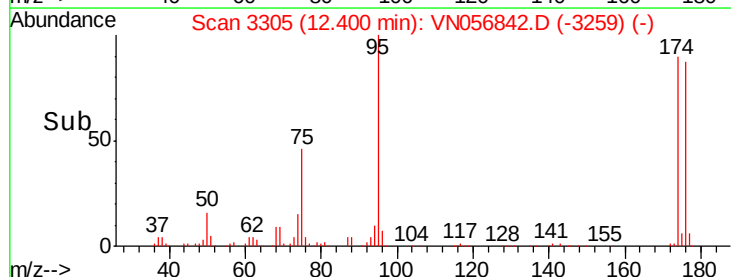
75 100

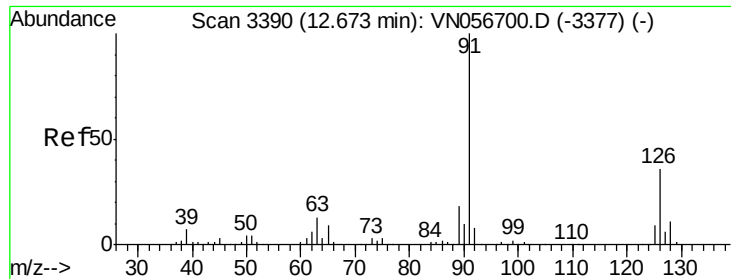
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

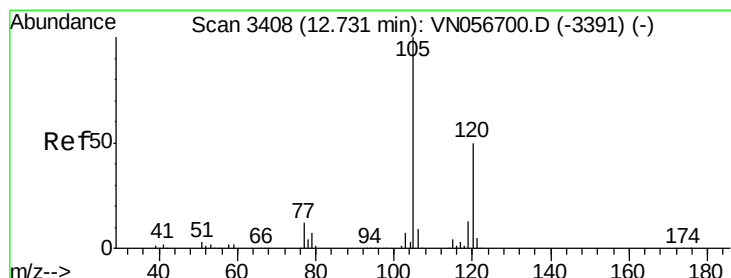
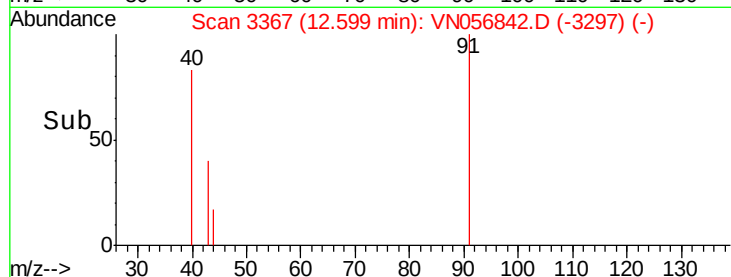
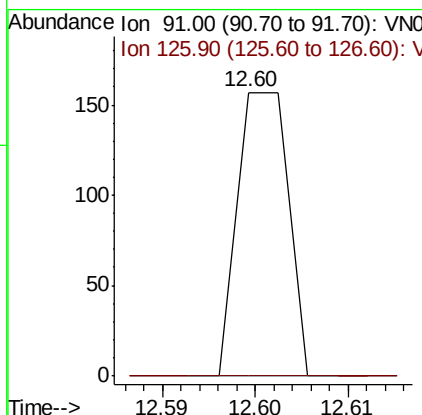
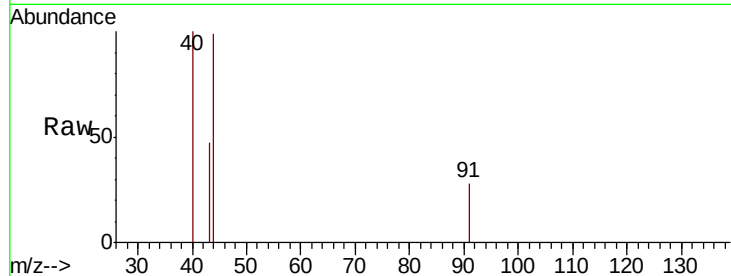




#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 12.60 min Scan# 3367
 Delta R.T. -0.07 min
 Lab File: VN056842.D
 Acq: 19 Jul 2019 19:10

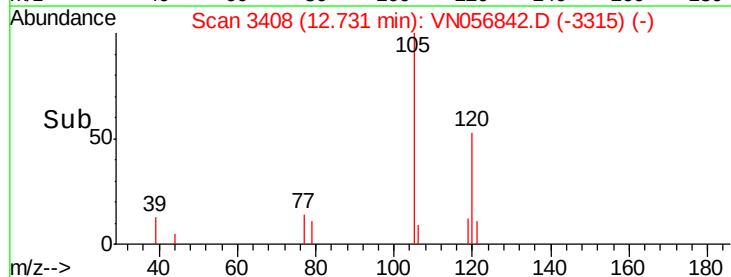
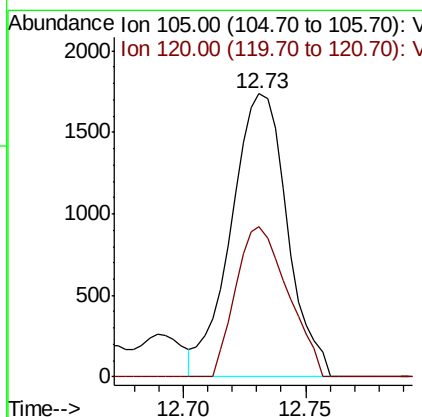
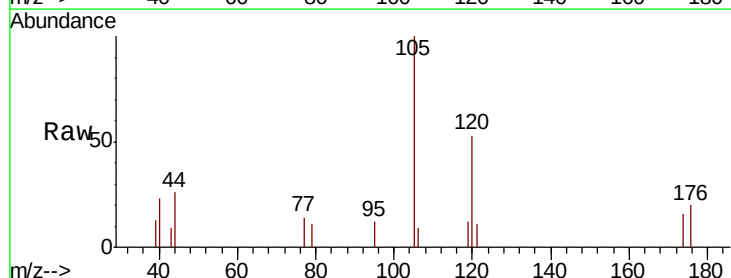
Instrument :
 MSVOA_N
 ClientSampled :
 TP-1

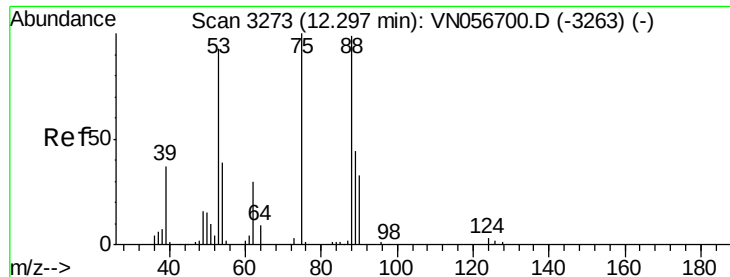
Tot Ion: 91 Resp: 61
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.9 53.7#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.218 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. -0.00 min
 Lab File: VN056842.D
 Acq: 19 Jul 2019 19:10

Tgt Ion: 105 Resp: 2774
 Ion Ratio Lower Upper
 105 100
 120 49.3 24.8 74.3





#81

trans-1,4-Dichloro-2-butene

Concen: 78.499 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056842.D

Acq: 19 Jul 2019 19:10

Instrument :

MSVOA_N

ClientSampled :

TP-1

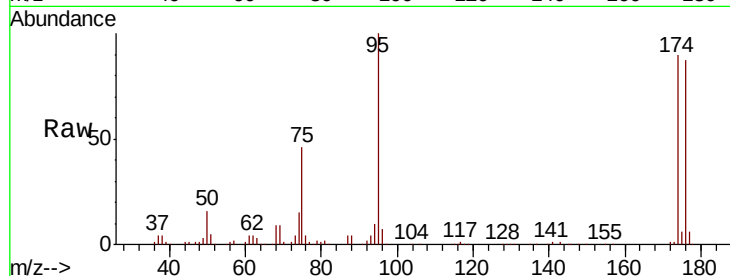
Tot Ion: 75 Resp: 103408

Ion Ratio Lower Upper

75 100

53 0.0 73.7 110.5#

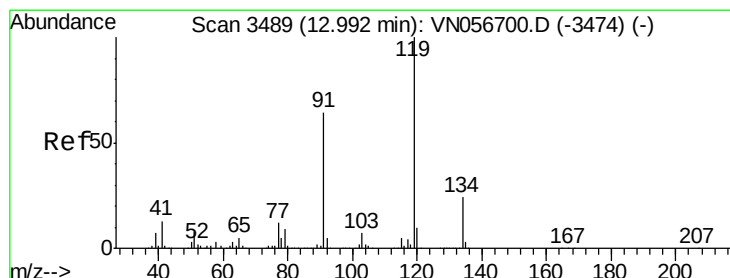
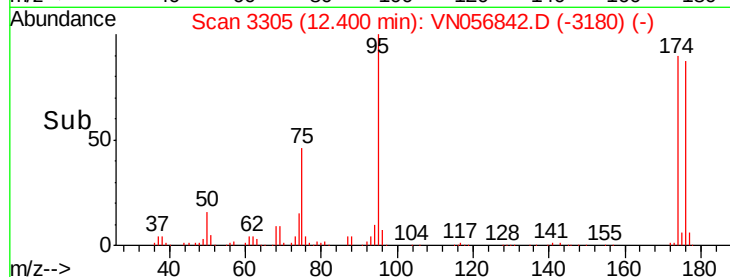
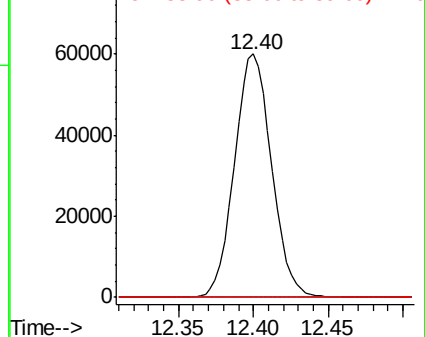
89 0.0 36.2 54.2#



Abundance Ion 74.90 (74.60 to 75.60): VN056700.D (-3263) (-)

Ion 53.00 (52.70 to 53.70): VN056700.D (-3263) (-)

Ion 88.90 (88.60 to 89.60): VN056700.D (-3263) (-)



#83

tert-Butylbenzene

Concen: Below Cal

RT: 13.03 min Scan# 3502

Delta R.T. 0.04 min

Lab File: VN056842.D

Acq: 19 Jul 2019 19:10

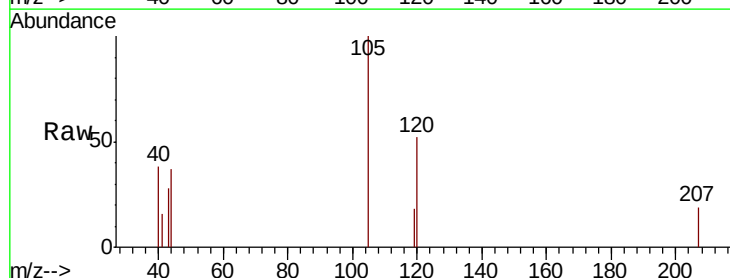
Tgt Ion: 119 Resp: 94

Ion Ratio Lower Upper

119 100

91 84.0 31.8 95.4

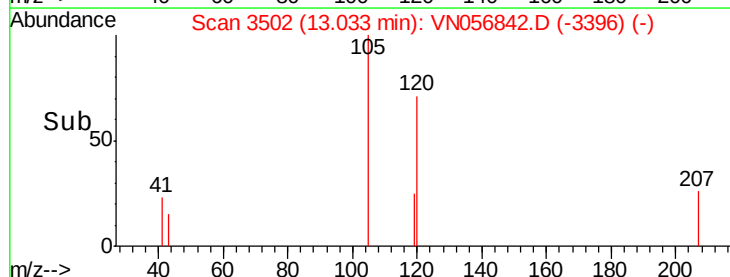
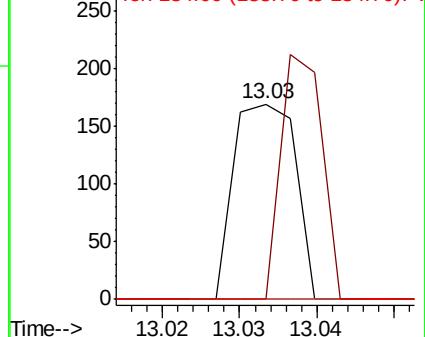
134 0.0 13.0 38.9#

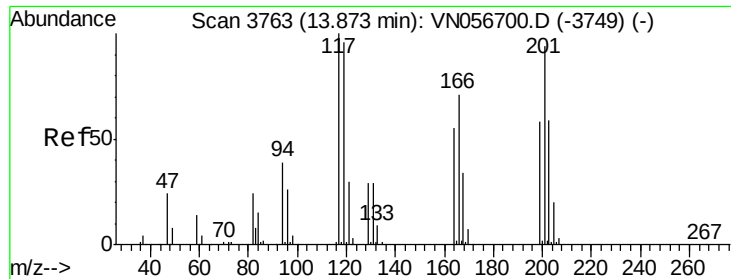


Abundance Ion 119.00 (118.70 to 119.70): VN056700.D (-3474) (-)

Ion 91.00 (90.70 to 91.70): VN056700.D (-3474) (-)

Ion 134.00 (133.70 to 134.70): VN056700.D (-3474) (-)





#90

Hexachloroethane

Concen: 0.328 ug/l

RT: 13.99 min Scan# 3801

Delta R.T. 0.12 min

Lab File: VN056842.D

Acq: 19 Jul 2019 19:10

Instrument :

MSVOA_N

ClientSampled :

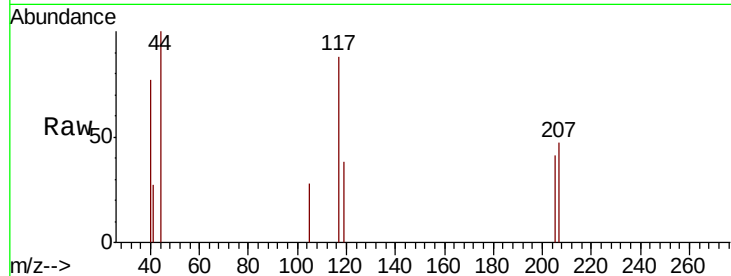
TP-1

Tot Ion:117 Resp: 679

Ion Ratio Lower Upper

117 100

201 0.0 46.5 139.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

13.99

500

400

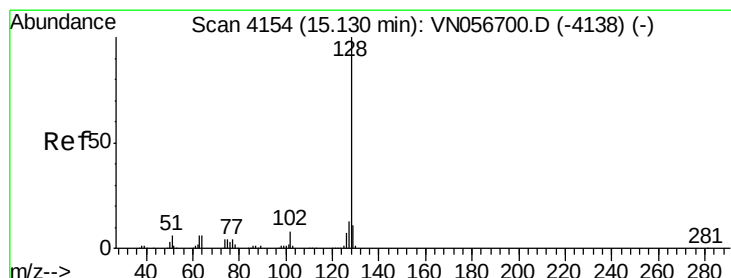
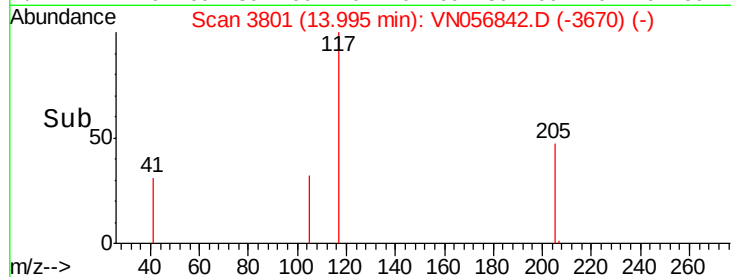
300

200

100

0

Time-->



#95

Naphthalene

Concen: 4.748 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056842.D

Acq: 19 Jul 2019 19:10

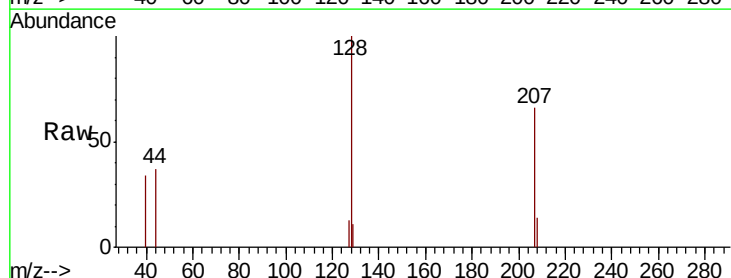
Tgt Ion:128 Resp: 2441

Ion Ratio Lower Upper

128 100

127 4.5 10.3 15.5#

129 3.8 8.7 13.1#



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

15.13

2000

1500

1000

500

0

Time-->

