

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041919\
 Data File : VN055158.D
 Acq On : 19 Apr 2019 23:46
 Operator : JC/SP
 Sample : K2475-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-TRACK-8-9

Quant Time: Apr 20 04:27:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041519W.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 15 12:28:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	699386	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1022097	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	748857	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	230754	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	409835	44.08	ug/l	0.00
Spiked Amount			Recovery	=	88.16%	
35) Dibromofluoromethane	7.59	113	319678	46.80	ug/l	0.00
Spiked Amount			Recovery	=	93.60%	
50) Toluene-d8	10.09	98	1176736	48.13	ug/l	0.00
Spiked Amount			Recovery	=	96.26%	
62) 4-Bromofluorobenzene	12.40	95	302531	38.06	ug/l	0.00
Spiked Amount			Recovery	=	76.12%	

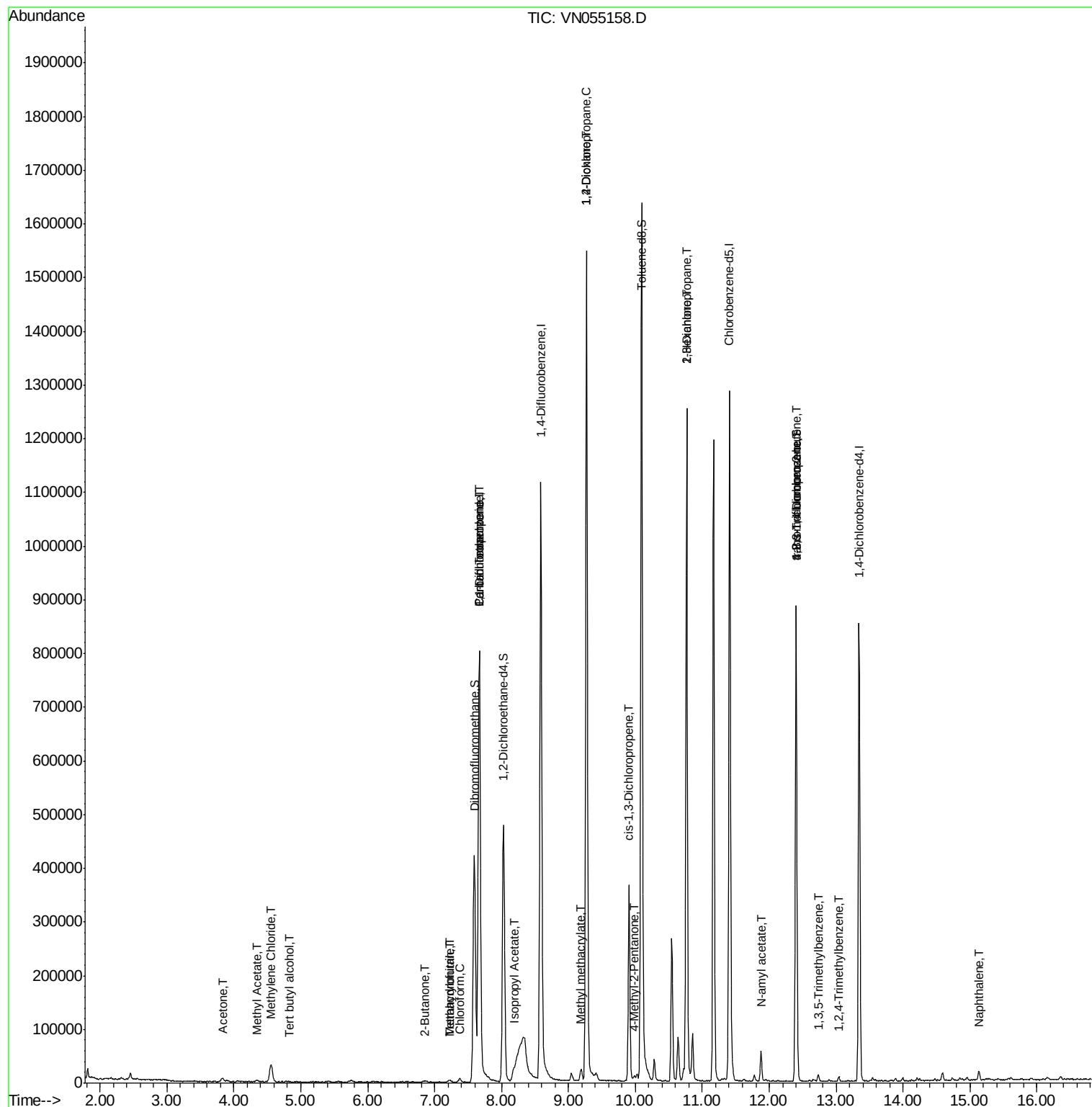
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.83	59	160	0.314	ug/l #	72
16) Acetone	3.82	43	11191	4.435	ug/l #	81
18) Methyl Acetate	4.34	43	6883	0.514	ug/l #	67
20) Methylene Chloride	4.55	84	23019	2.595	ug/l	97
25) 2-Butanone	6.84	43	1214	0.322	ug/l	94
29) Tetrahydrofuran	7.22	42	2855	1.156	ug/l #	61
30) Chloroform	7.37	83	6072	0.420	ug/l	91
31) Cyclohexane	7.66	56	14408	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	52617	5.461	ug/l #	49
38) Carbon Tetrachloride	7.67	117	65345	7.128	ug/l #	17
41) Methacrylonitrile	7.22	41	1503	0.345	ug/l #	40
43) Isopropyl Acetate	8.18	43	19685	1.629	ug/l #	95
45) 1,2-Dichloropropane	9.27	63	1870	0.231	ug/l #	44
48) Methyl methacrylate	9.18	41	9909	1.654	ug/l #	17
49) 1,4-Dioxane	9.27	88	97	1.728	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	5914	0.847	ug/l	93
54) cis-1,3-Dichloropropene	9.90	75	61236	5.940	ug/l #	64
57) 1,3-Dichloropropane	10.77	76	11953	1.096	ug/l #	43
59) 2-Hexanone	10.77	43	195688	44.618	ug/l #	53
74) N-amyl acetate	11.88	43	19832	3.441	ug/l #	53
76) 1,2,3-Trichloropropane	12.40	75	153446	36.979	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	6445	0.390	ug/l	90
81) trans-1,4-Dichloro-2-buten	12.40	75	153446	147.875	ug/l #	2
84) 1,2,4-Trimethylbenzene	13.04	105	5996	0.383	ug/l	95
95) Naphthalene	15.13	128	14597	4.734	ug/l	98

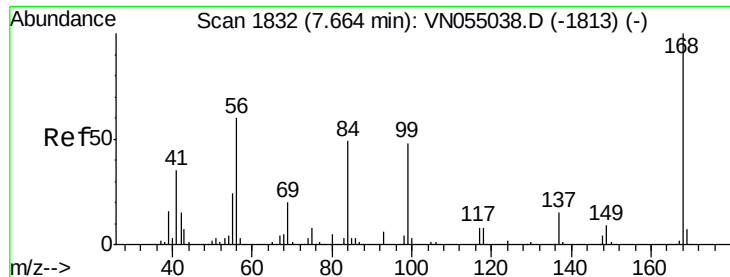
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Apr 15 12:28:28 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055158.D

Acq: 19 Apr 2019 23:46

Instrument :

MSVOA_N

ClientSampleId :

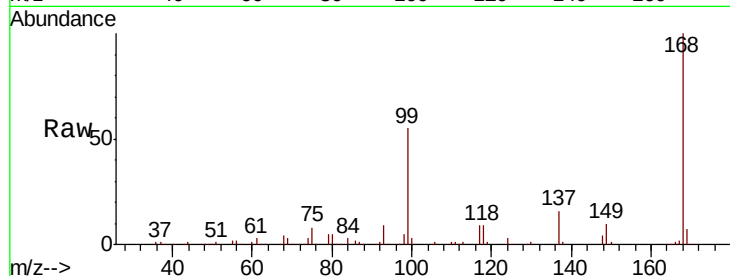
TP-TRACK-8-9

Tot Ion:168 Resp: 699386

Ion Ratio Lower Upper

168 100

99 54.6 41.9 62.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

150000

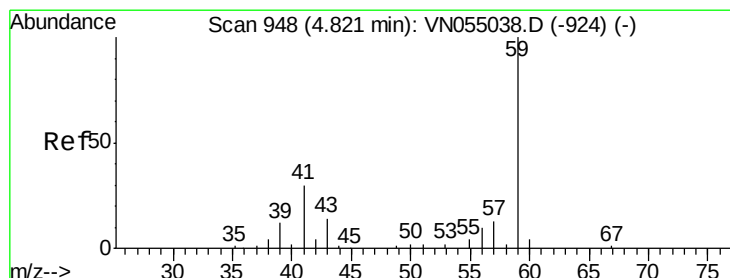
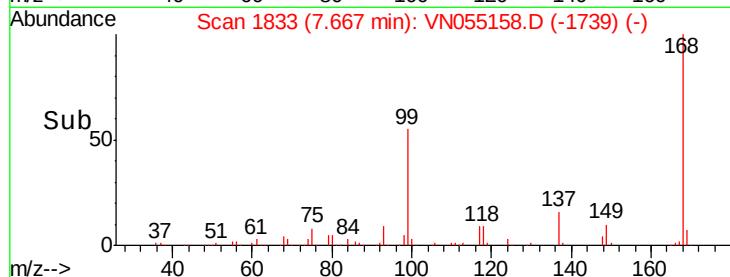
100000

50000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 0.314 ug/l

RT: 4.83 min Scan# 950

Delta R.T. 0.01 min

Lab File: VN055158.D

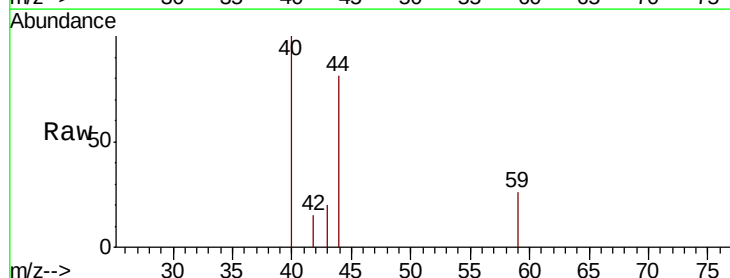
Acq: 19 Apr 2019 23:46

Tgt Ion: 59 Resp: 160

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.83

300

250

200

150

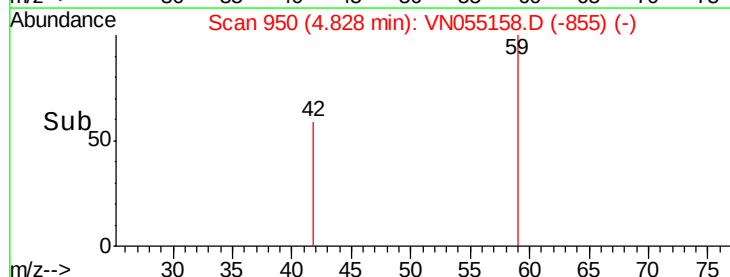
100

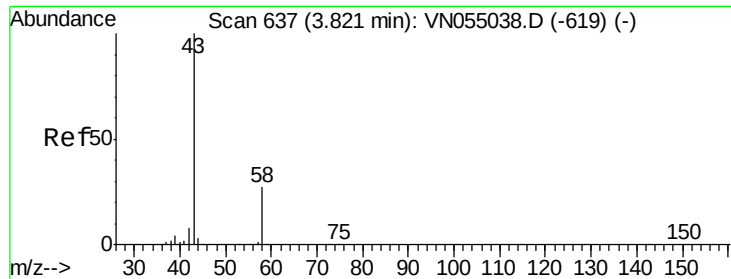
50

0

4.82 4.83 4.84

Time-->





#16

Acetone

Concen: 4.435 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN055158.D

Acq: 19 Apr 2019 23:46

Instrument :

MSVOA_N

ClientSampleId :

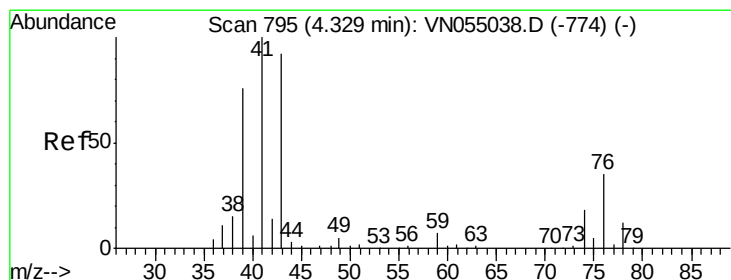
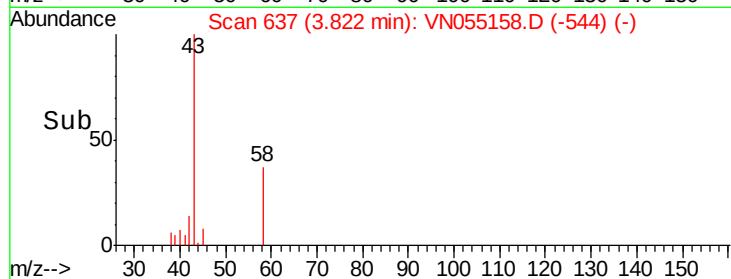
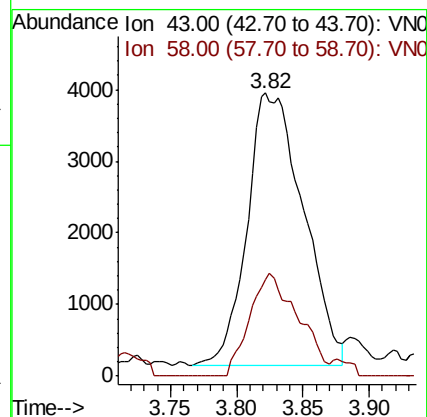
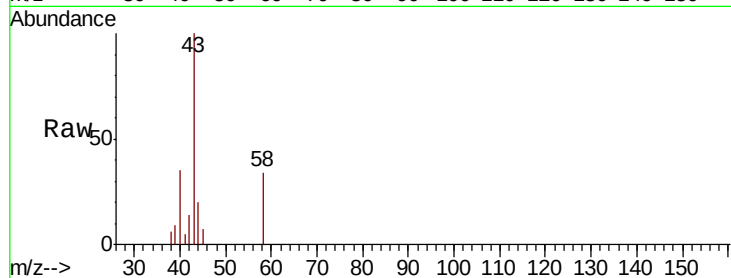
TP-TRACK-8-9

Tot Ion: 43 Resp: 11191

Ion Ratio Lower Upper

43 100

58 35.6 20.9 31.3#



#18

Methyl Acetate

Concen: 0.514 ug/l

RT: 4.34 min Scan# 795

Delta R.T. 0.01 min

Lab File: VN055158.D

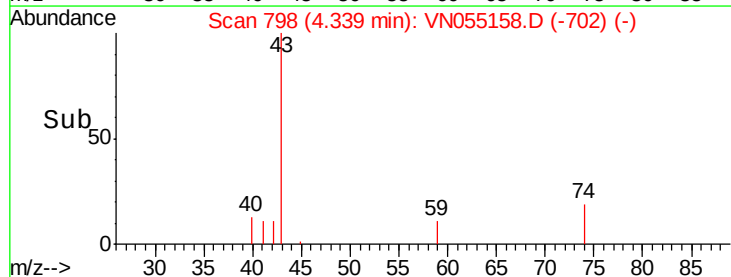
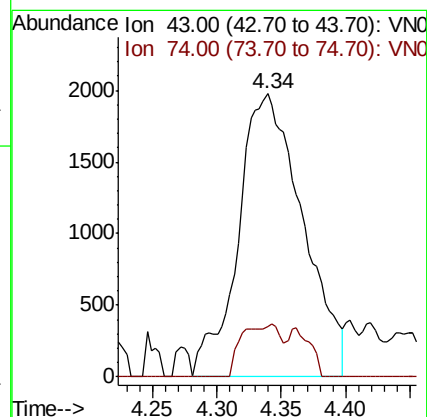
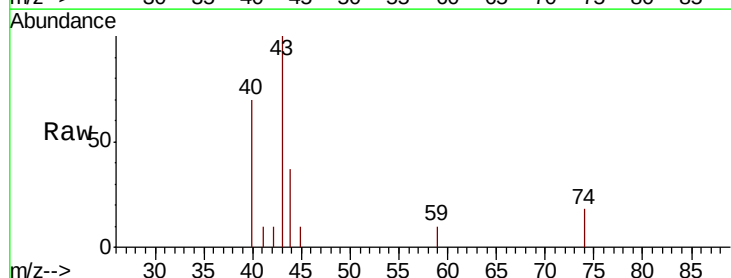
Acq: 19 Apr 2019 23:46

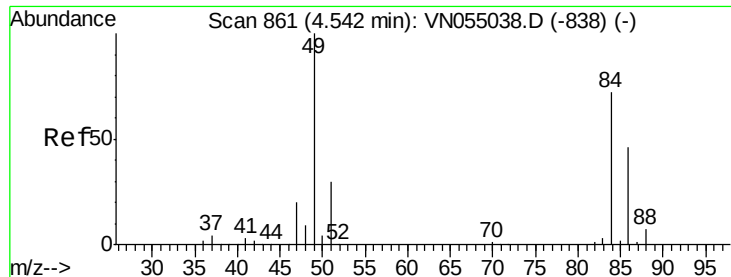
Tgt Ion: 43 Resp: 6883

Ion Ratio Lower Upper

43 100

74 4.9 16.1 24.1#

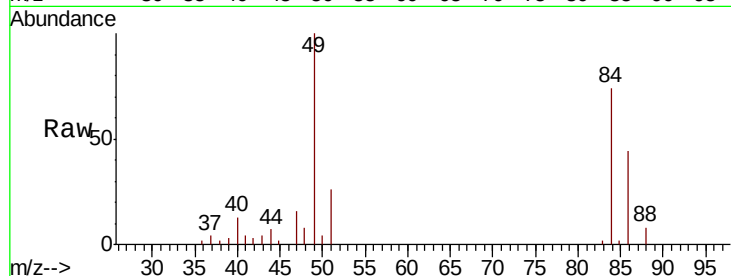




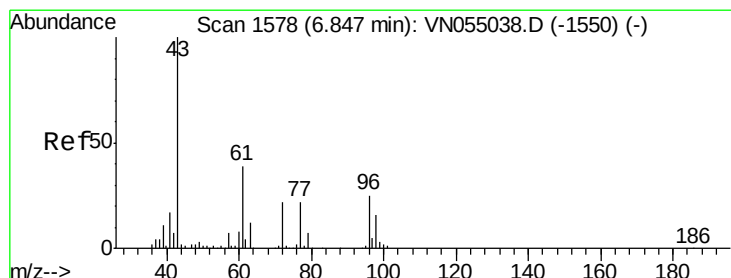
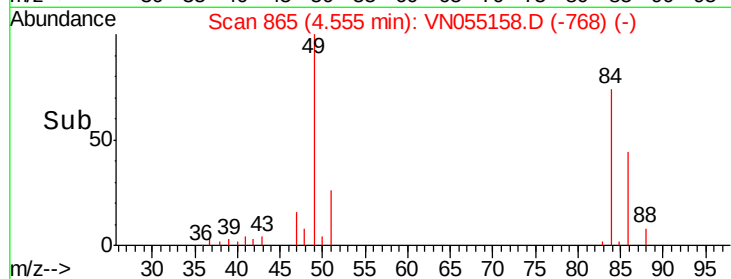
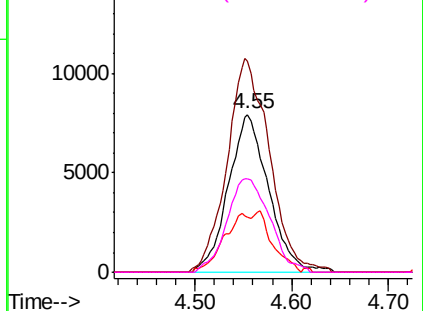
#20
Methvlene Chloride
Concen: 2.595 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.01 min
Lab File: VN055158.D
Acq: 19 Apr 2019 23:46

Instrument :
MSVOA_N
ClientSampleId :
TP-TRACK-8-9

Tot Ion: 84 Resp: 23019
Ion Ratio Lower Upper
84 100
49 134.3 109.4 164.2
51 34.7 32.2 48.4
86 59.5 49.3 73.9

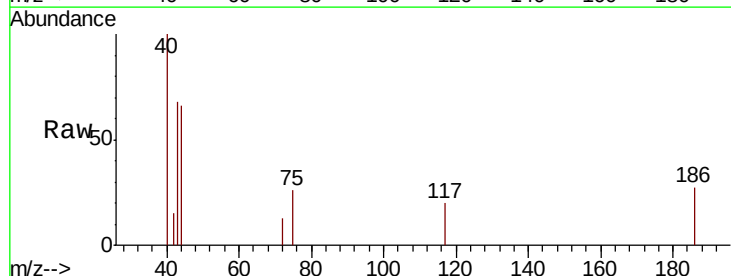


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

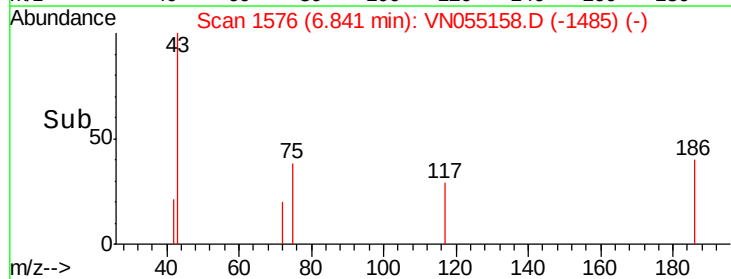
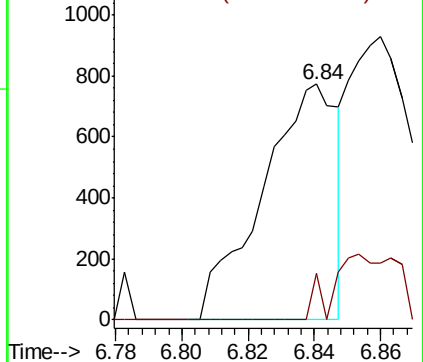


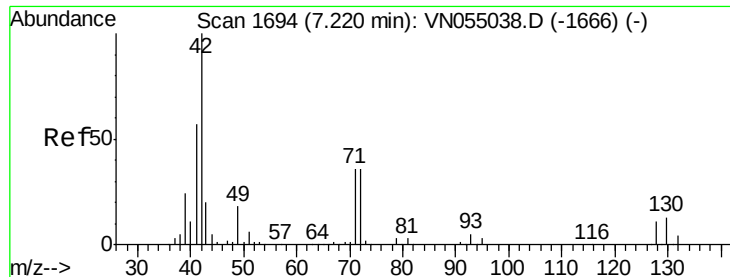
#25
2-Butanone
Concen: 0.322 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. -0.01 min
Lab File: VN055158.D
Acq: 19 Apr 2019 23:46

Tgt Ion: 43 Resp: 1214
Ion Ratio Lower Upper
43 100
72 19.5 18.1 27.1



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





#29

Tetrahydrofuran

Concen: 1.156 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.00 min

Lab File: VN055158.D

Acq: 19 Apr 2019 23:46

Instrument :

MSVOA_N

ClientSampled :

TP-TRACK-8-9

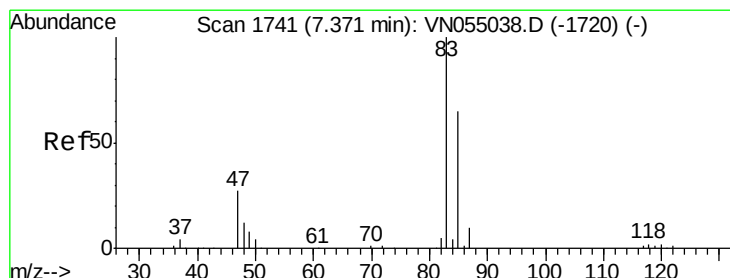
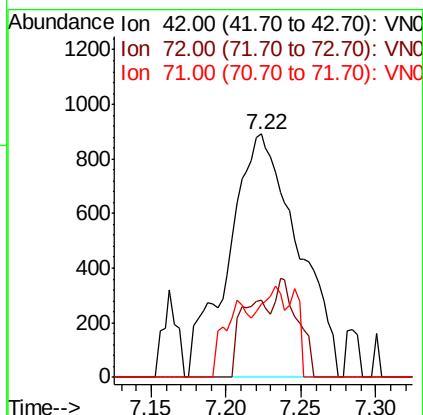
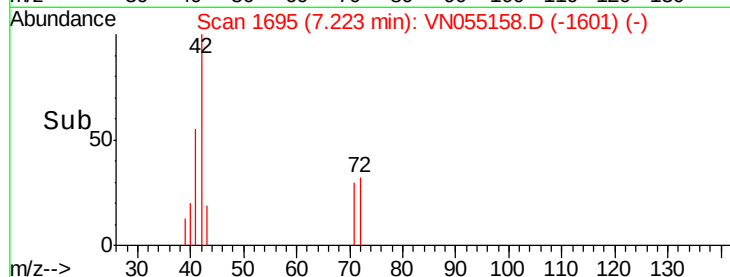
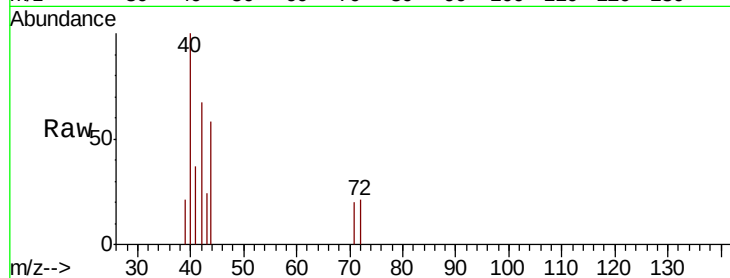
Tot Ion: 42 Resp: 2855

Ion Ratio Lower Upper

42 100

72 13.7 29.4 44.0#

71 11.8 27.8 41.6#



#30

Chloroform

Concen: 0.420 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VN055158.D

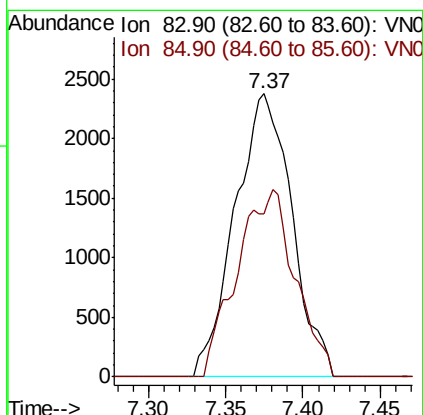
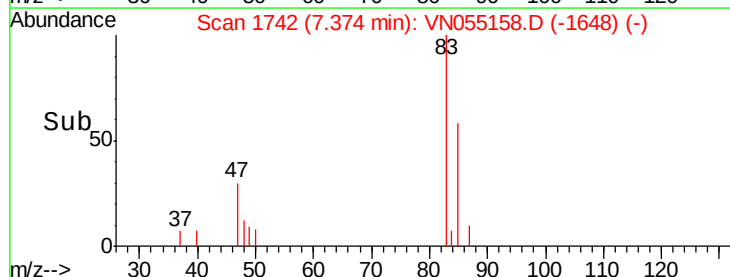
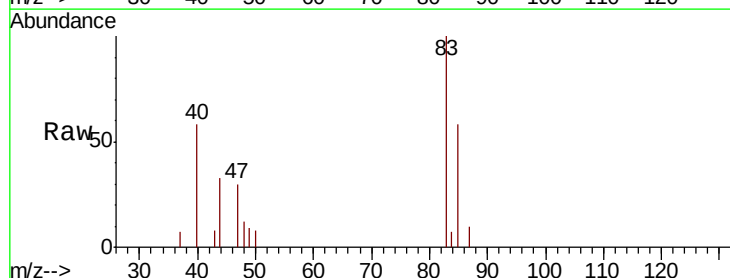
Acq: 19 Apr 2019 23:46

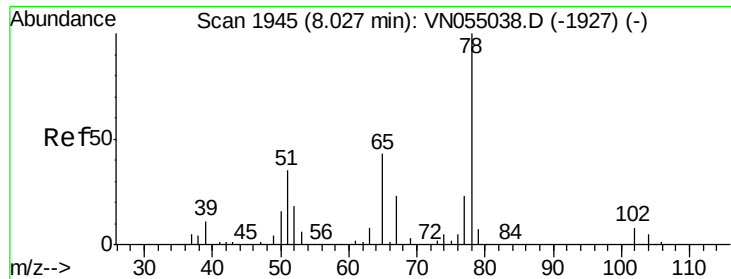
Tgt Ion: 83 Resp: 6072

Ion Ratio Lower Upper

83 100

85 57.6 51.8 77.6

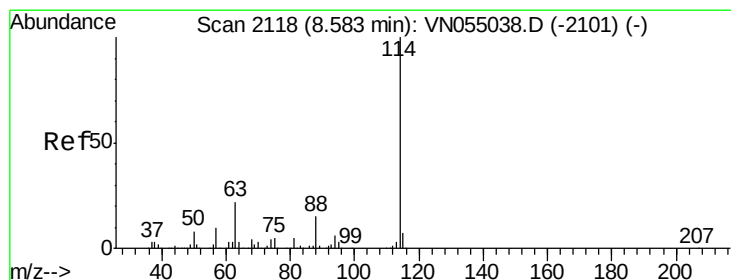
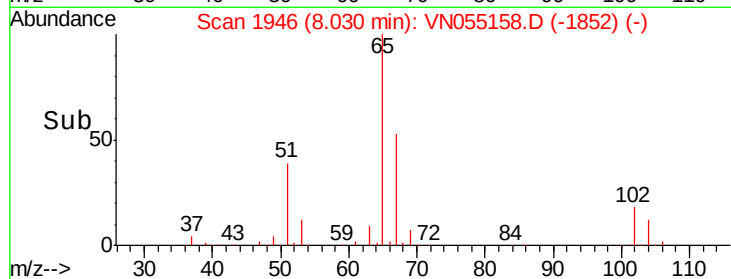
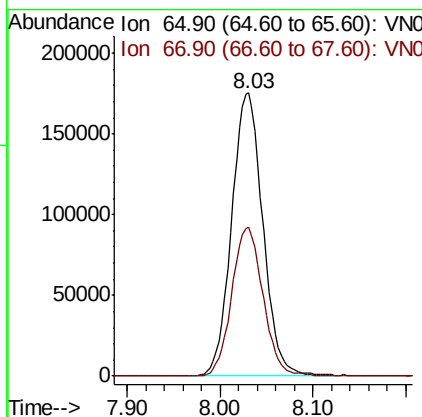
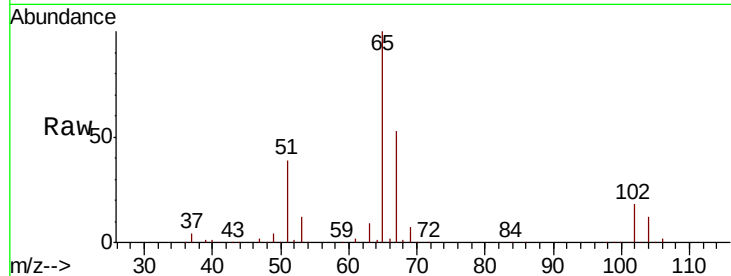




#33
 1,2-Dichloroethane-d4
 Concen: 44.084 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN055158.D
 Acq: 19 Apr 2019 23:46

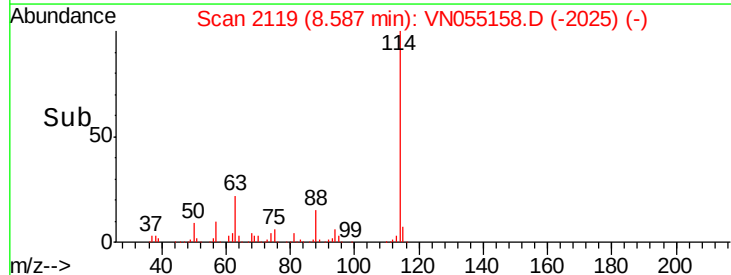
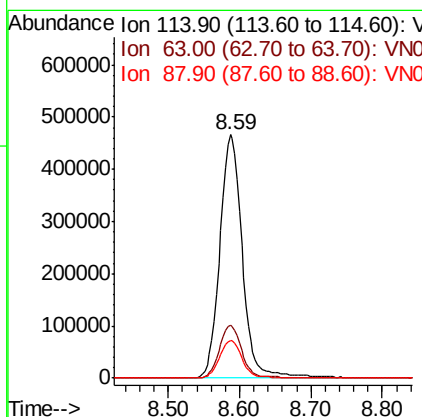
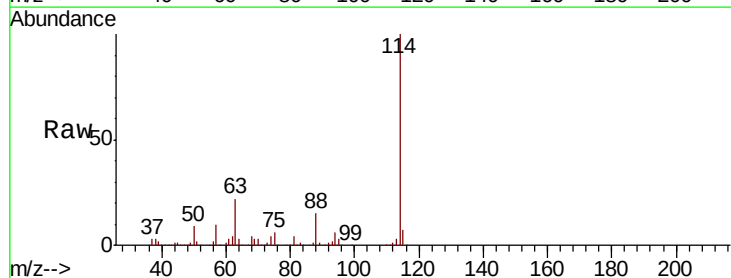
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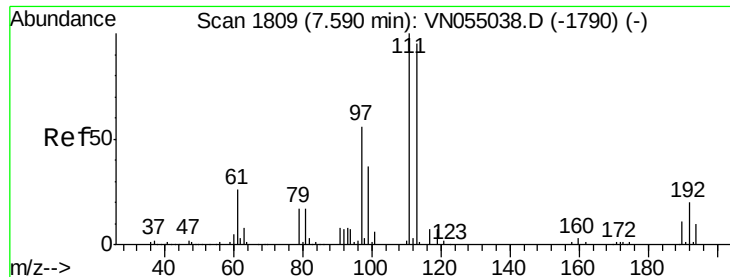
Tot Ion: 65 Resp: 409835
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 106.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055158.D
 Acq: 19 Apr 2019 23:46

Tgt Ion: 114 Resp: 1022097
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 45.2
 88 15.5 0.0 31.8

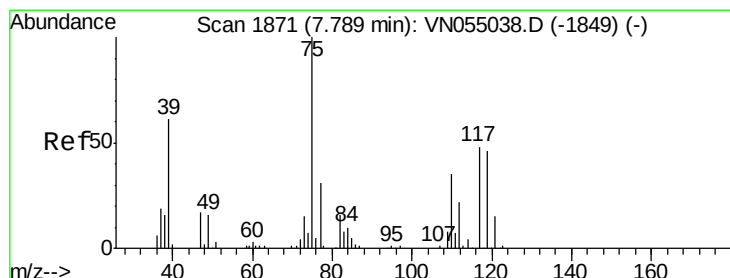
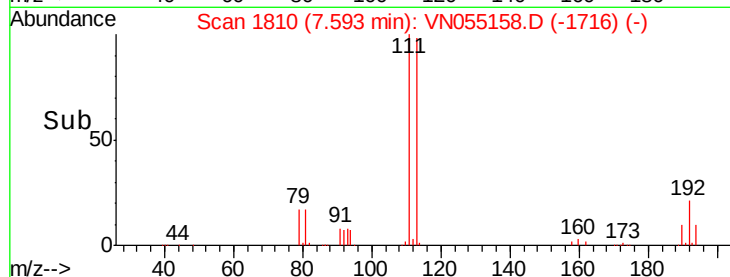
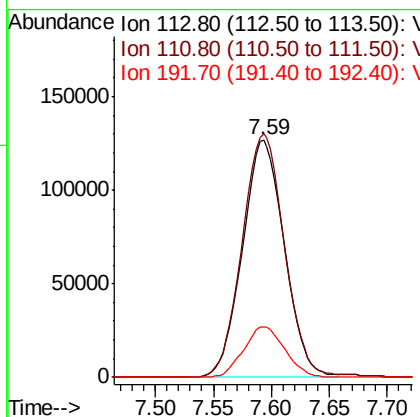
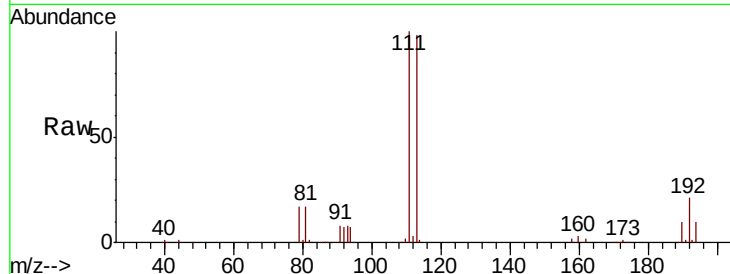




#35
 Dibromofluoromethane
 Concen: 46.800 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN055158.D
 Acq: 19 Apr 2019 23:46

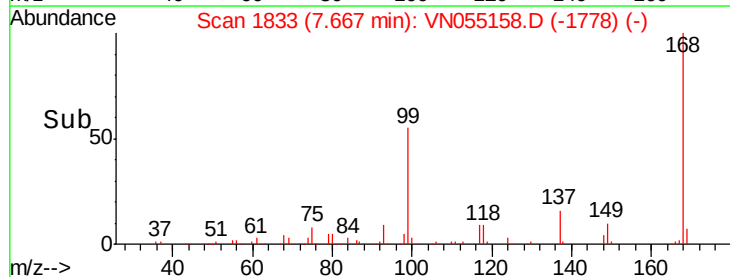
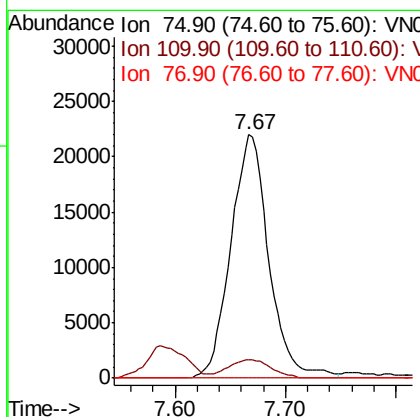
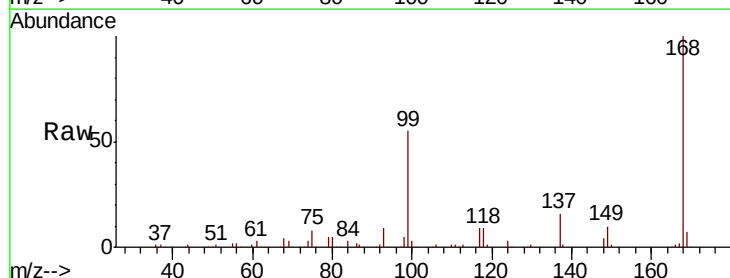
Instrument :
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 TP-TRACK-8-9

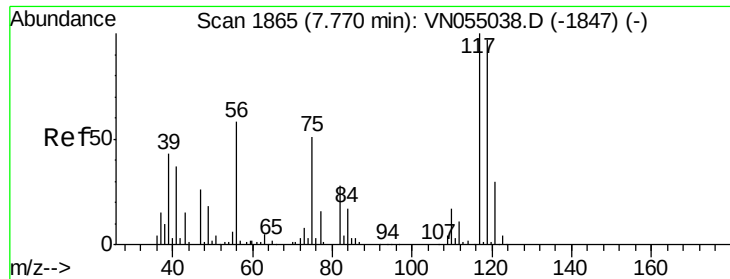
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.3	82.1	123.1
192	21.1	16.5	24.7



#36
 1,1-Dichloropropene
 Concen: 5.461 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN055158.D
 Acq: 19 Apr 2019 23:46

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.5	17.5	52.5#
77	0.0	24.9	37.3#

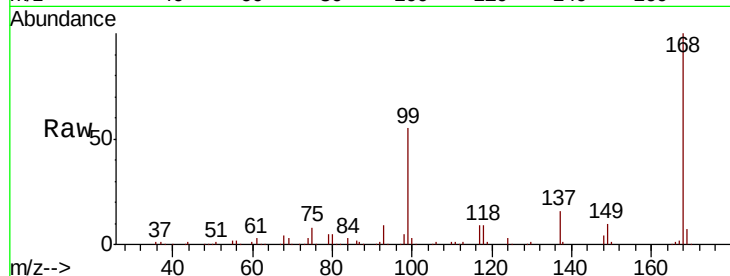




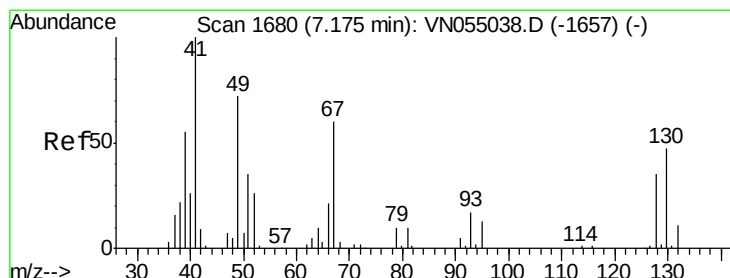
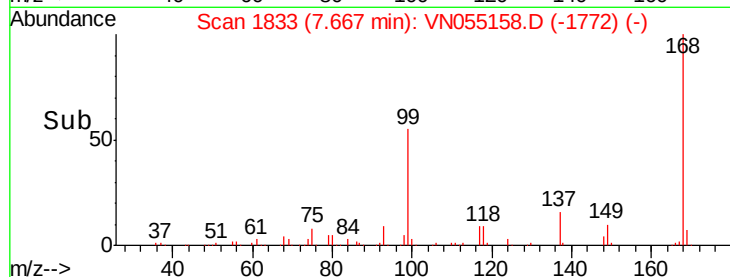
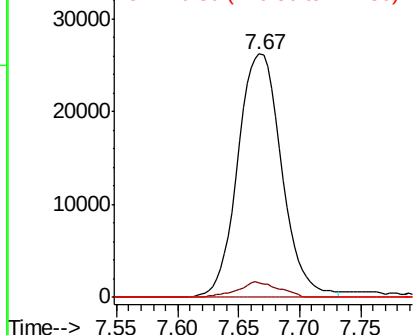
#38
Carbon Tetrachloride
Concen: 7.128 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.10 min
Lab File: VN055158.D
Acq: 19 Apr 2019 23:46

Instrument :
MSVOA_N
ClientSampled :
TP-TRACK-8-9

Tot Ion:117 Resp: 65345
Ion Ratio Lower Upper
117 100
119 6.1 76.3 114.5#
121 0.0 23.9 35.9#

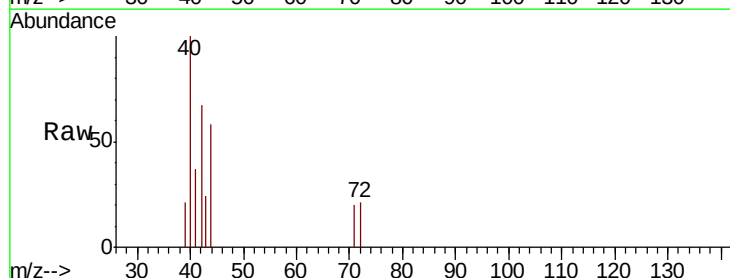


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

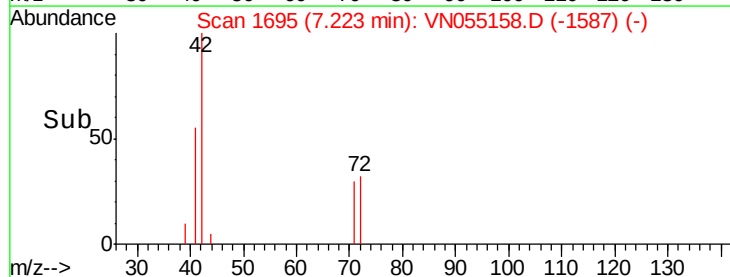
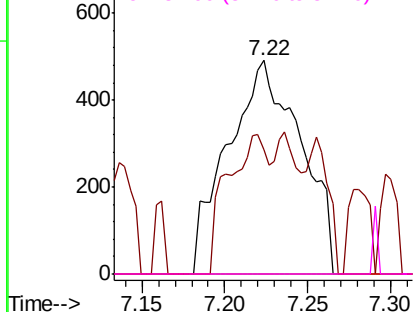


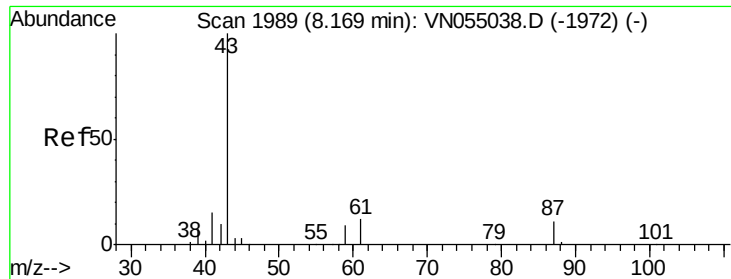
#41
Methacrylonitrile
Concen: 0.345 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.05 min
Lab File: VN055158.D
Acq: 19 Apr 2019 23:46

Tgt Ion: 41 Resp: 1503
Ion Ratio Lower Upper
41 100
39 35.7 45.6 68.4#
67 0.0 57.0 85.6#
52 0.0 23.6 35.4#



Abundance Ion 41.00 (40.70 to 41.70): V
Ion 39.00 (38.70 to 39.70): V
Ion 67.00 (66.70 to 67.70): V
Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 1.629 ug/l

RT: 8.18 min Scan# 1992

Delta R.T. 0.01 min

Lab File: VN055158.D

Acq: 19 Apr 2019 23:46

Instrument :

MSVOA_N

ClientSampleId :

TP-TRACK-8-9

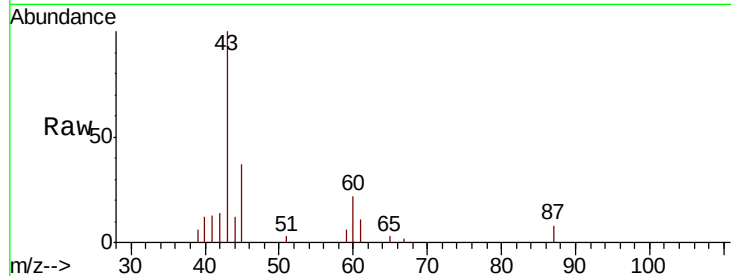
Tot Ion: 43 Resp: 19685

Ion Ratio Lower Upper

43 100

61 17.8 14.3 21.5

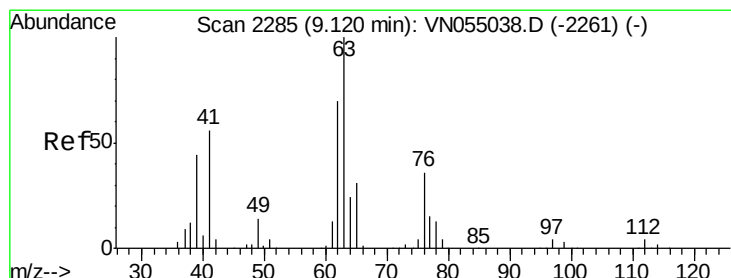
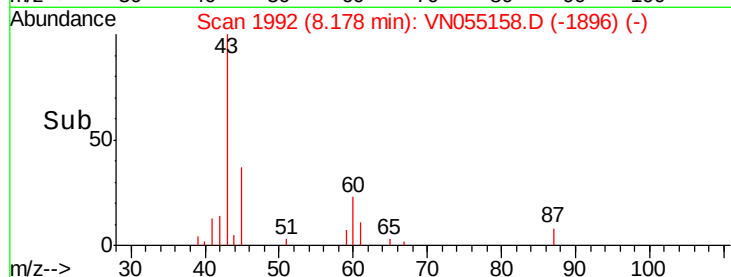
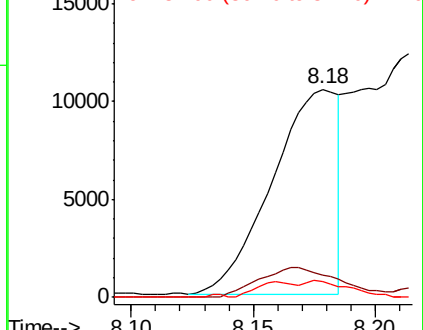
87 5.4 8.6 13.0#



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: 0.231 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN055158.D

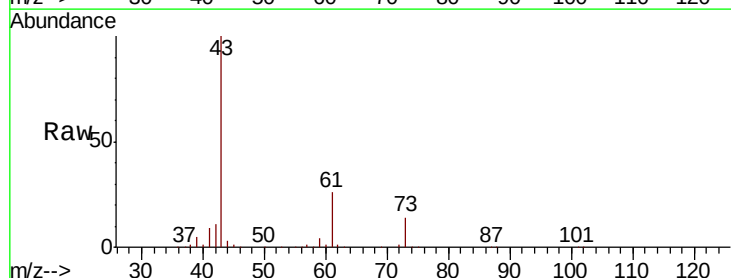
Acq: 19 Apr 2019 23:46

Tgt Ion: 63 Resp: 1870

Ion Ratio Lower Upper

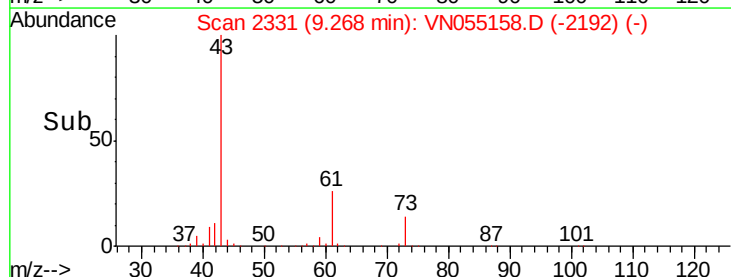
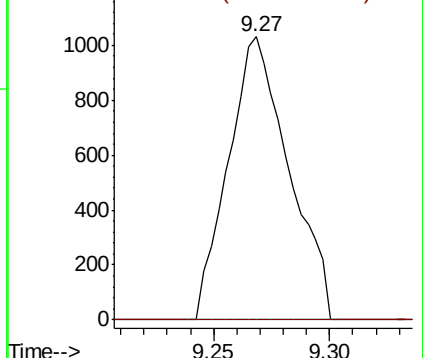
63 100

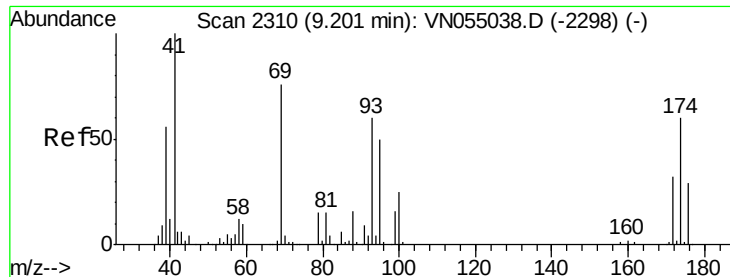
65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

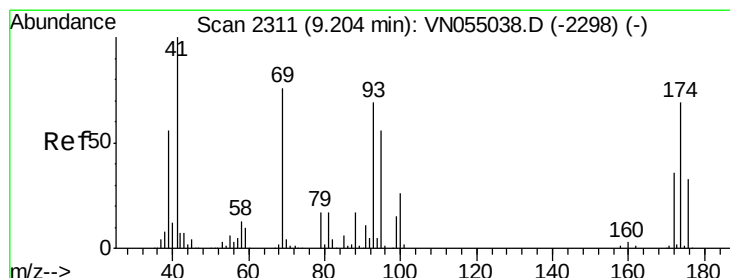
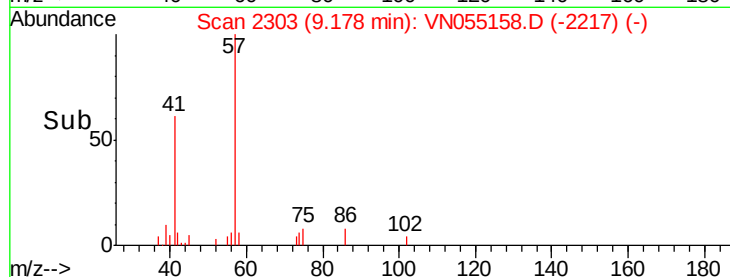
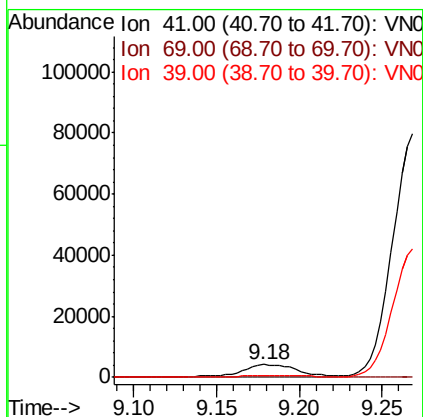
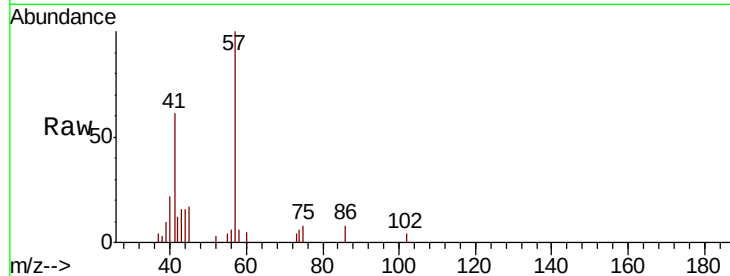




#48
Methvl methacrylate
Concen: 1.654 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN055158.D
Acq: 19 Apr 2019 23:46

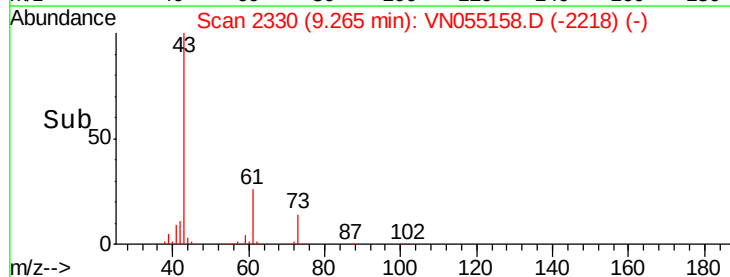
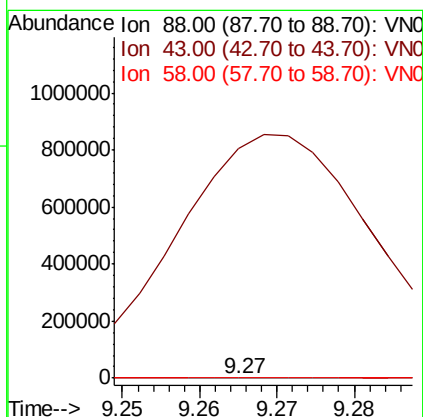
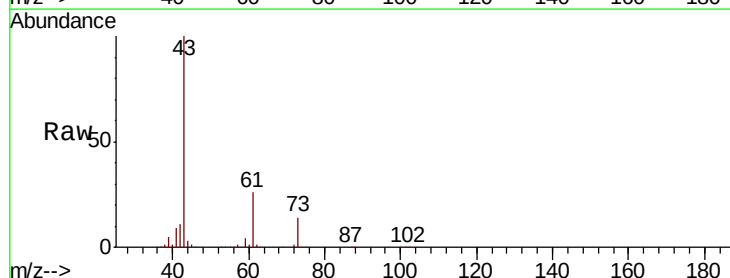
Instrument :
MSVOA_N
ClientSampled :
TP-TRACK-8-9

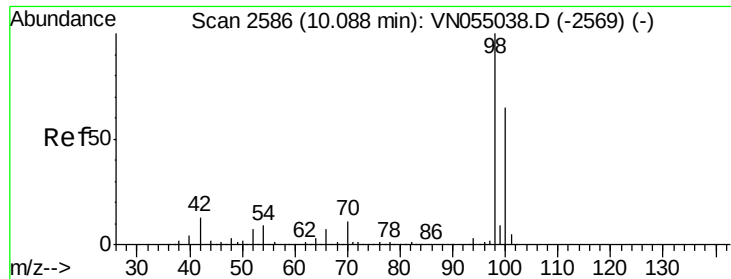
Tot Ion: 41 Resp: 9909
Ion Ratio Lower Upper
41 100
69 0.0 60.5 90.7#
39 0.0 43.9 65.9#



#49
1,4-Dioxane
Concen: 1.728 ug/l
RT: 9.27 min Scan# 2330
Delta R.T. 0.06 min
Lab File: VN055158.D
Acq: 19 Apr 2019 23:46

Tgt Ion: 88 Resp: 97
Ion Ratio Lower Upper
88 100
43 1681994.8 31.8 47.8#
58 7516.5 61.6 92.4#





#50

Toluene-d8

Concen: 48.133 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055158.D

Acq: 19 Apr 2019 23:46

Instrument :

MSVOA_N

ClientSampled :

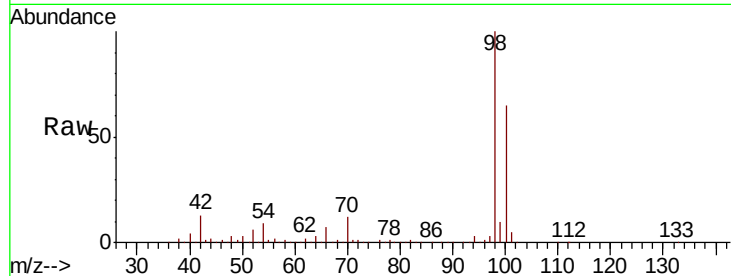
TP-TRACK-8-9

Tot Ion: 98 Resp: 1176736

Ion Ratio Lower Upper

98 100

100 64.0 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN055038.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN055038.D (-2569) (-)

10.09

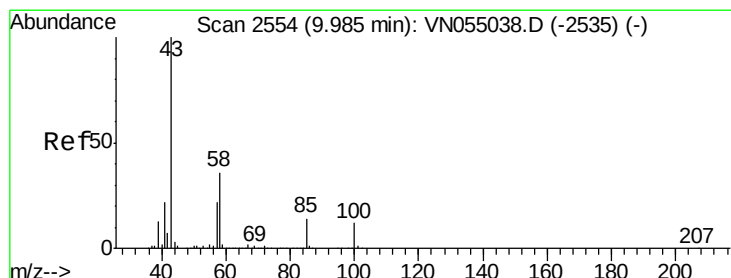
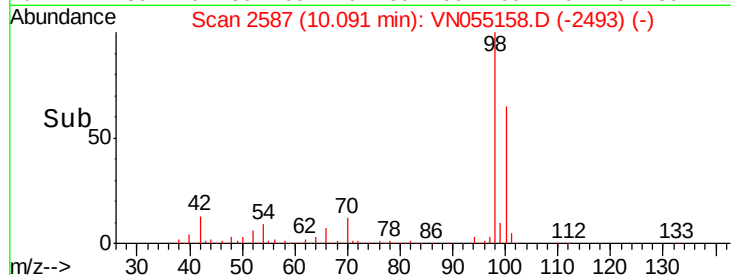
600000

400000

200000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.847 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN055158.D

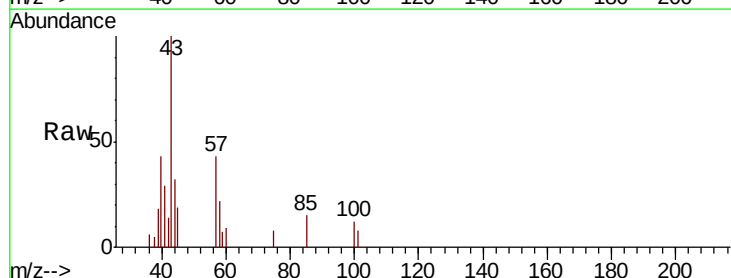
Acq: 19 Apr 2019 23:46

Tgt Ion: 43 Resp: 5914

Ion Ratio Lower Upper

43 100

58 32.2 29.0 43.4



Abundance Ion 43.00 (42.70 to 43.70): VN055038.D (-2535) (-)

Ion 58.00 (57.70 to 58.70): VN055038.D (-2535) (-)

10000

8000

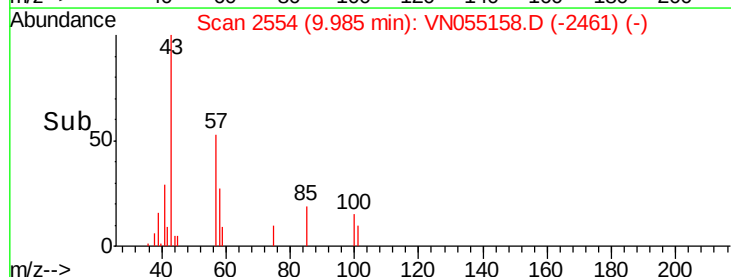
6000

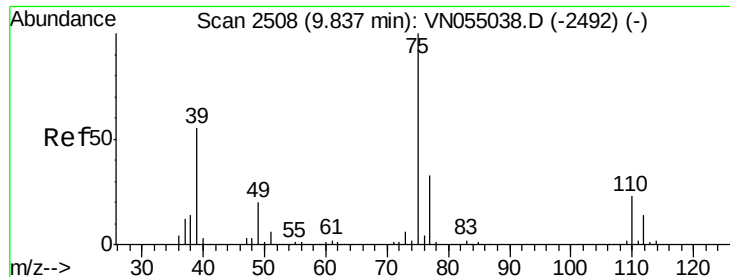
4000

2000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 5.940 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN055158.D

Acq: 19 Apr 2019 23:46

Instrument :

MSVOA_N

ClientSampleId :

TP-TRACK-8-9

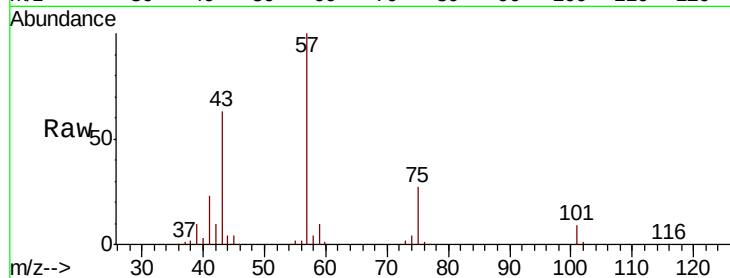
Tot Ion: 75 Resp: 61236

Ion Ratio Lower Upper

75 100

77 0.7 25.8 38.6#

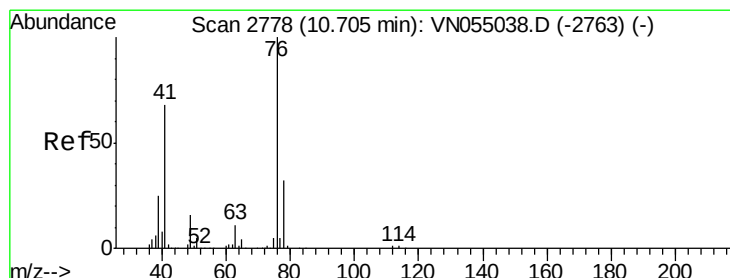
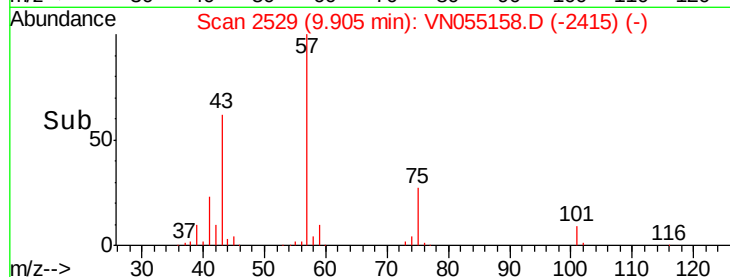
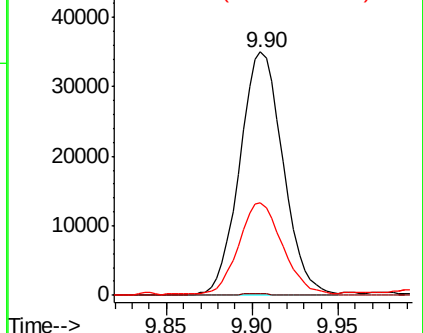
39 37.7 43.8 65.8#



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: 1.096 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN055158.D

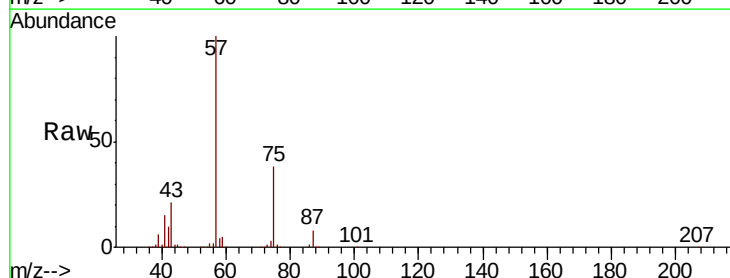
Acq: 19 Apr 2019 23:46

Tgt Ion: 76 Resp: 11953

Ion Ratio Lower Upper

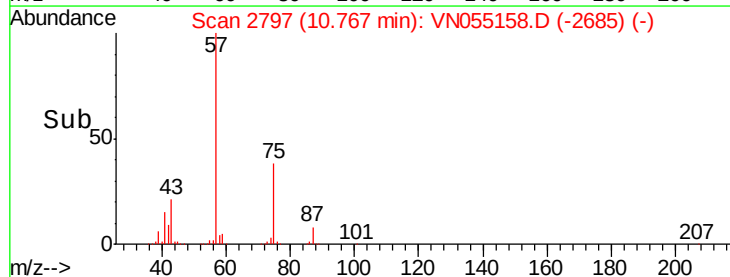
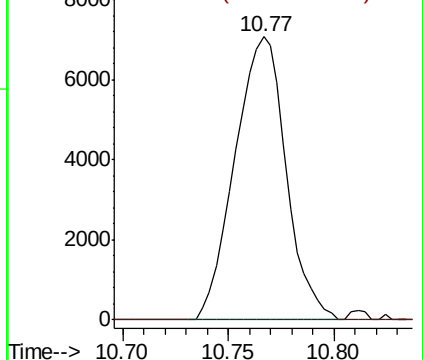
76 100

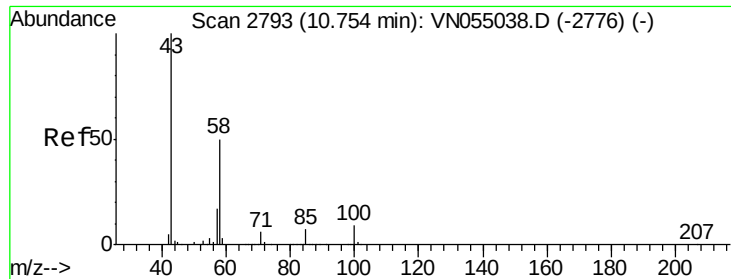
78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

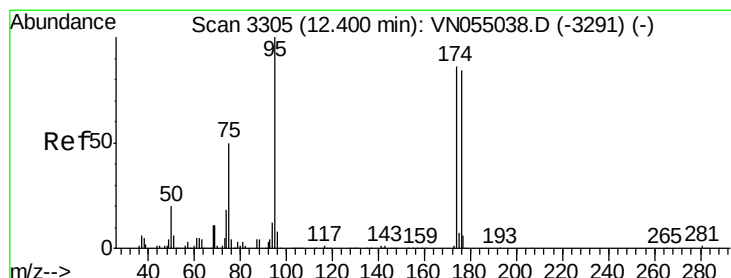
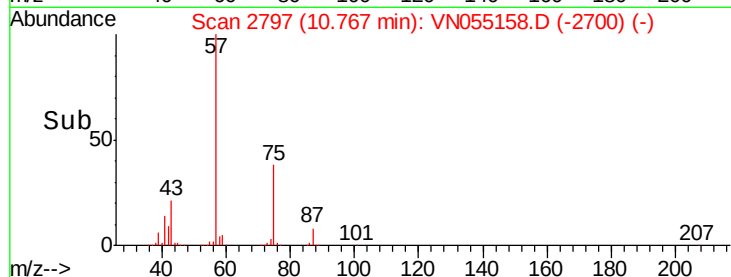
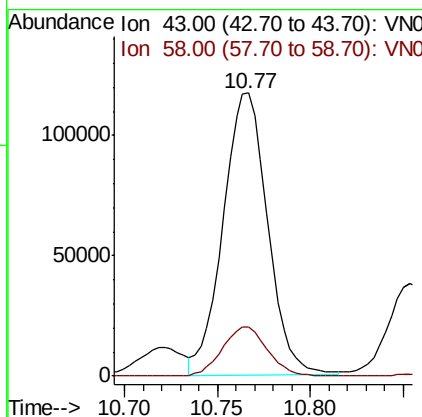
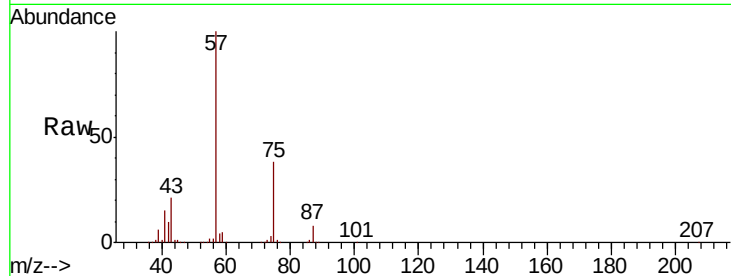




#59
2-Hexanone
Concen: 44.618 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN055158.D
Acq: 19 Apr 2019 23:46

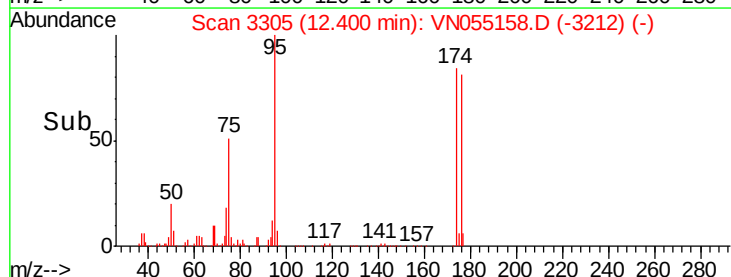
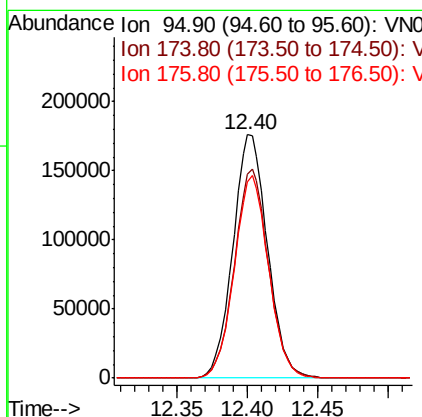
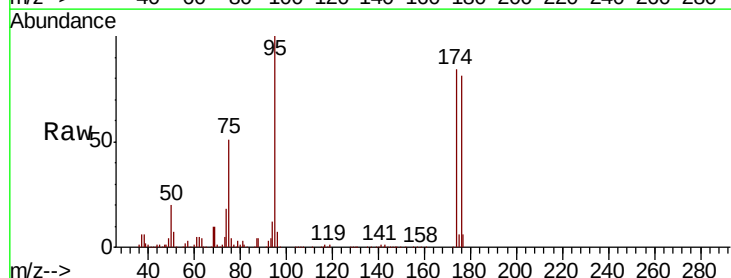
Instrument :
MSVOA_N
ClientSampled :
TP-TRACK-8-9

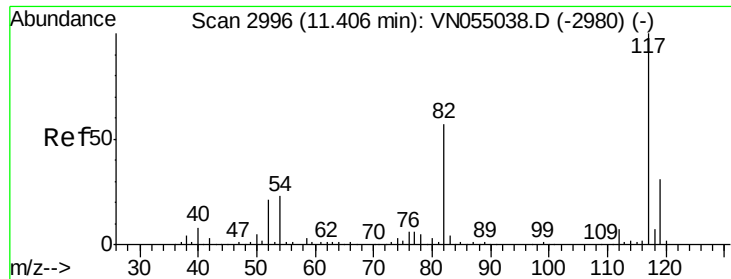
Tot Ion: 43 Resp: 195688
Ion Ratio Lower Upper
43 100
58 18.0 25.1 75.2#



#62
4-Bromofluorobenzene
Concen: 38.064 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055158.D
Acq: 19 Apr 2019 23:46

Tgt Ion: 95 Resp: 302531
Ion Ratio Lower Upper
95 100
174 84.9 0.0 174.4
176 82.3 0.0 166.8

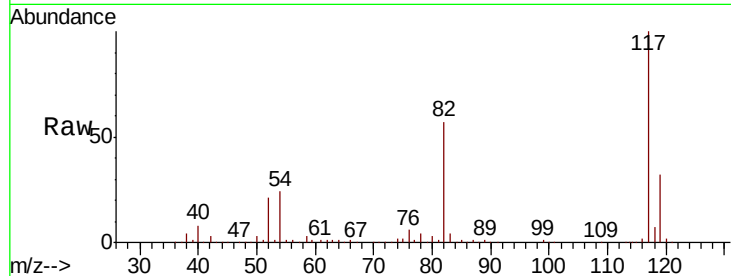




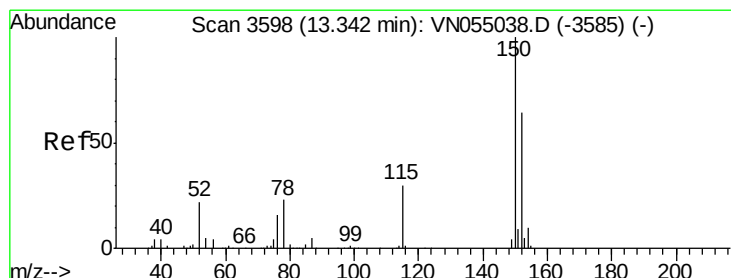
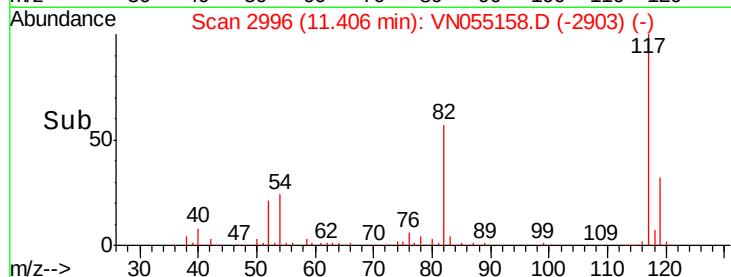
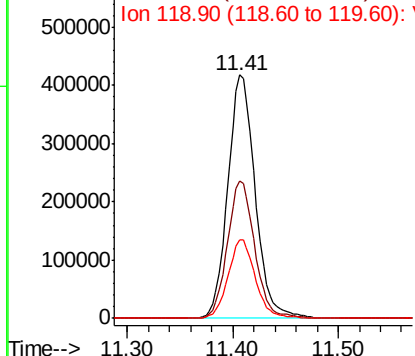
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055158.D
Acq: 19 Apr 2019 23:46

Instrument :
MSVOA_N
ClientSampled :
TP-TRACK-8-9

Tot Ion:117 Resp: 748857
Ion Ratio Lower Upper
117 100
82 56.6 44.6 66.8
119 32.4 25.5 38.3

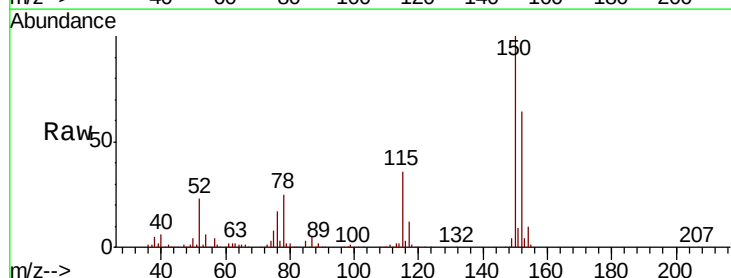


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

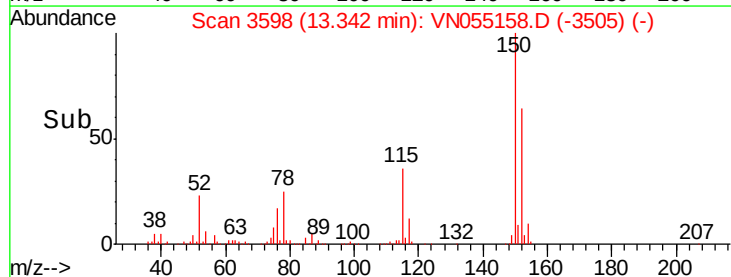
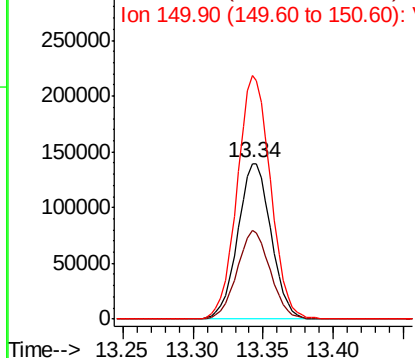


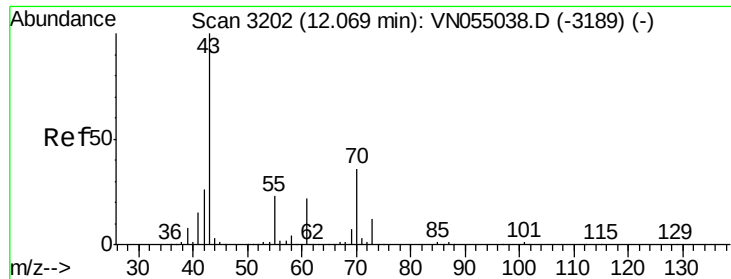
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055158.D
Acq: 19 Apr 2019 23:46

Tgt Ion:152 Resp: 230754
Ion Ratio Lower Upper
152 100
115 56.7 28.5 85.6
150 157.0 0.0 347.2



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





#74

N-amvl acetate

Concen: 3.441 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN055158.D

Acq: 19 Apr 2019 23:46

Instrument :

MSVOA_N

ClientSampleId :

TP-TRACK-8-9

Tot Ion: 43 Resp: 19832

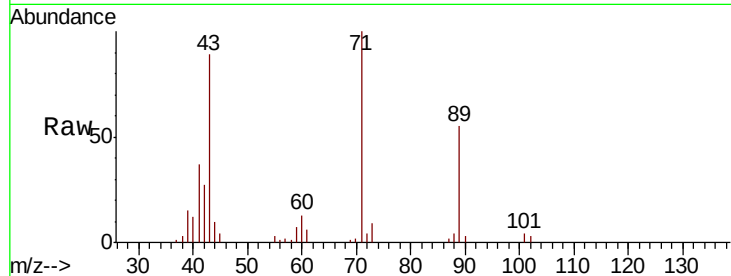
Ion Ratio Lower Upper

43 100

70 2.2 29.4 44.0#

55 4.6 19.0 28.4#

61 4.7 17.7 26.5#

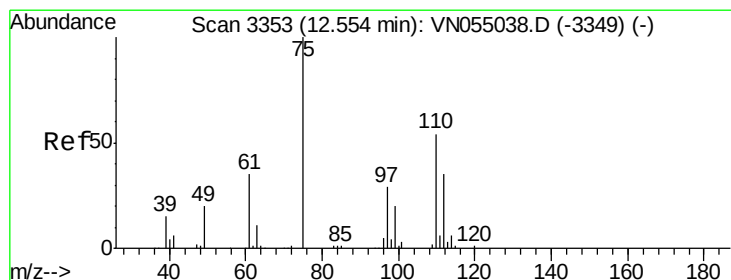
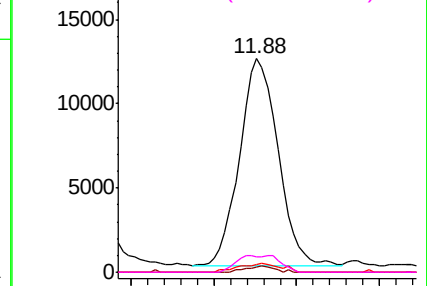
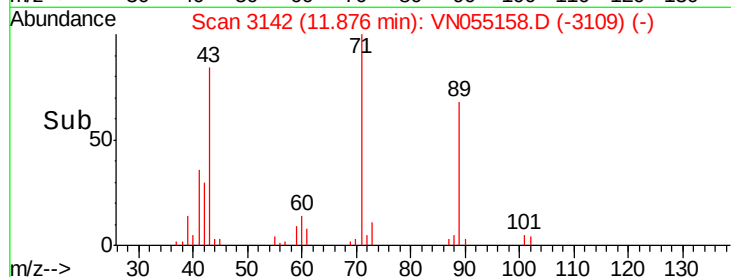


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 36.979 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055158.D

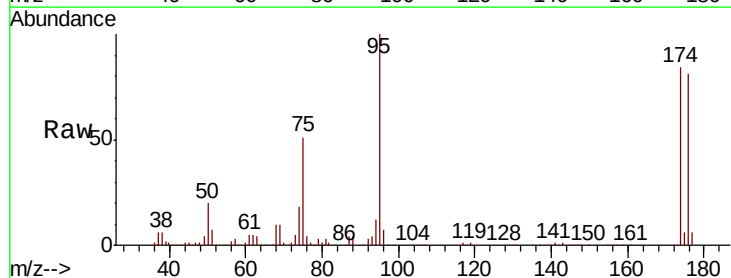
Acq: 19 Apr 2019 23:46

Tgt Ion: 75 Resp: 153446

Ion Ratio Lower Upper

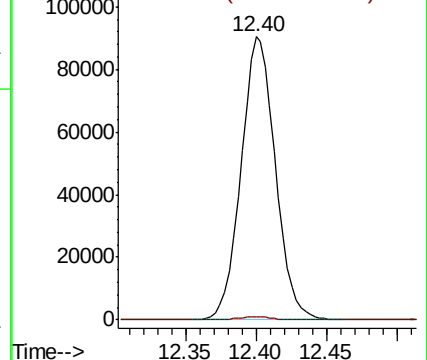
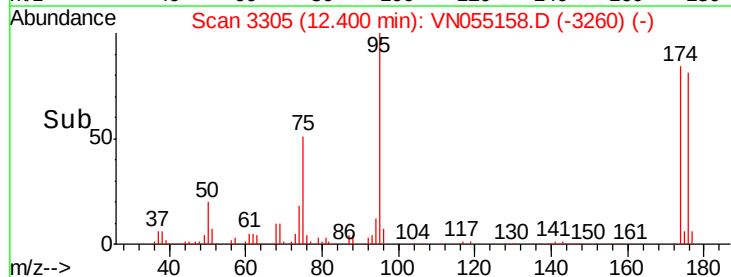
75 100

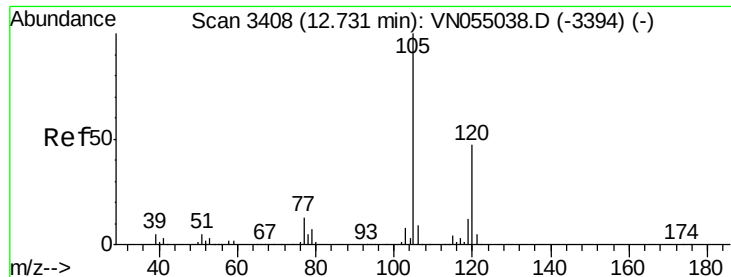
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.390 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN055158.D

Acq: 19 Apr 2019 23:46

Instrument :

MSVOA_N

ClientSampleId :

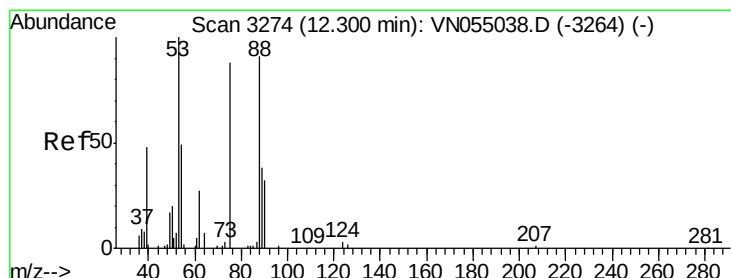
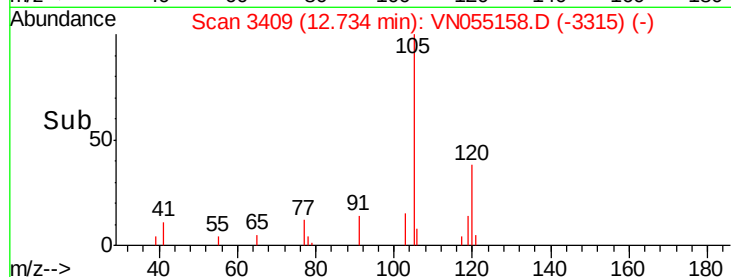
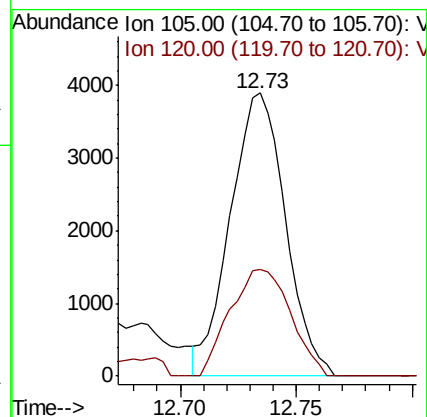
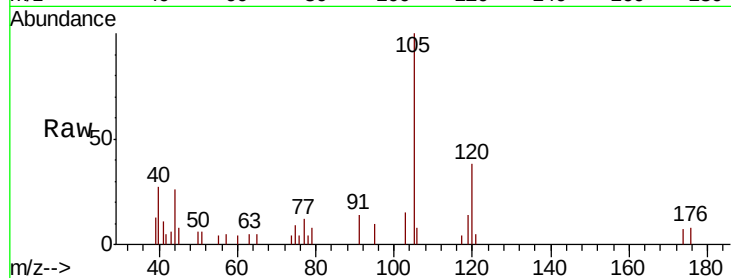
TP-TRACK-8-9

Tot Ion:105 Resp: 6445

Ion Ratio Lower Upper

105 100

120 41.4 24.3 72.8



#81

trans-1,4-Dichloro-2-butene

Concen: 147.875 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055158.D

Acq: 19 Apr 2019 23:46

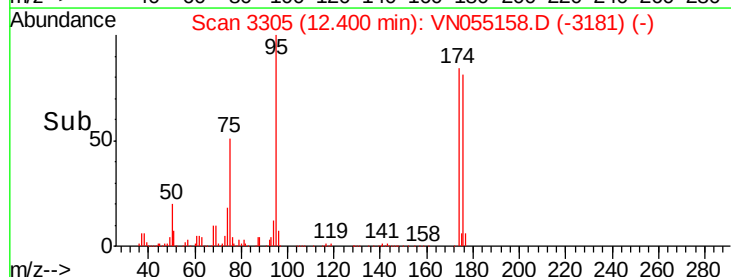
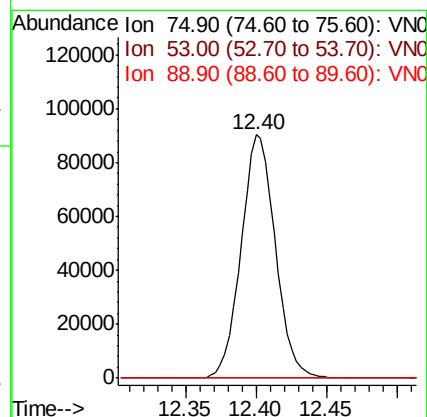
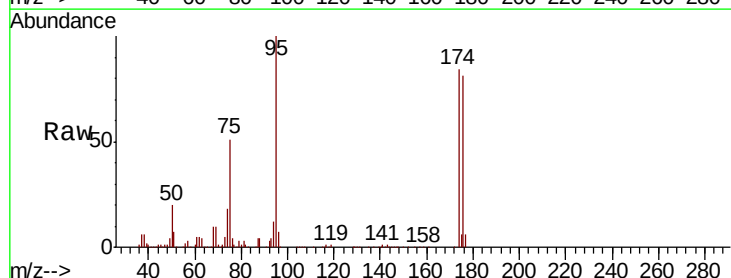
Tgt Ion: 75 Resp: 153446

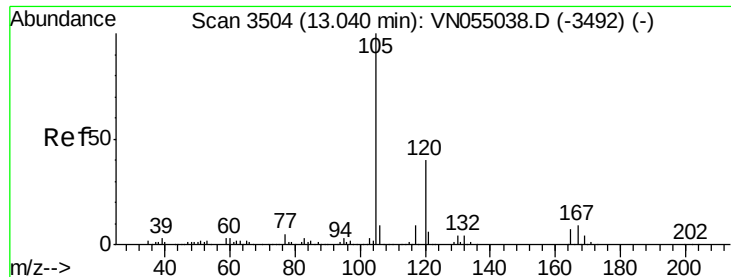
Ion Ratio Lower Upper

75 100

53 0.0 96.3 144.5#

89 0.0 38.6 57.8#





#84

1,2,4-Trimethylbenzene

Concen: 0.383 ug/l

RT: 13.04 min Scan# 3505

Delta R.T. 0.00 min

Lab File: VN055158.D

Acq: 19 Apr 2019 23:46

Instrument :

MSVOA_N

ClientSampleId :

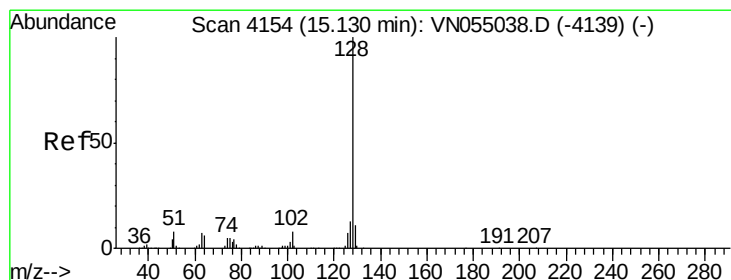
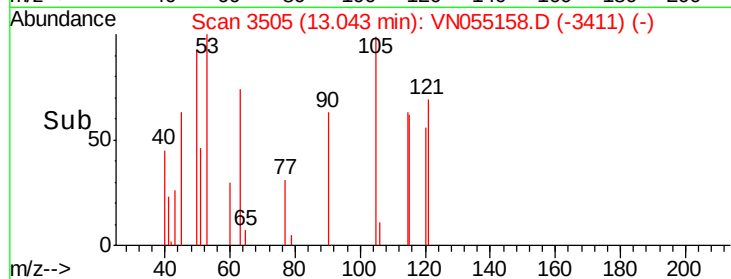
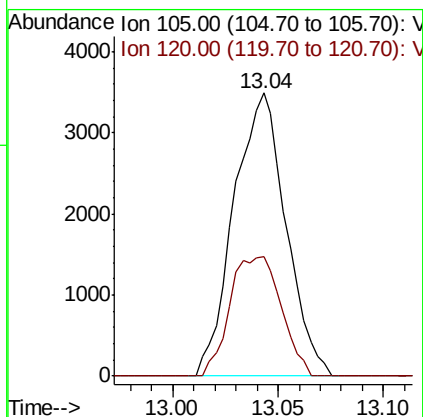
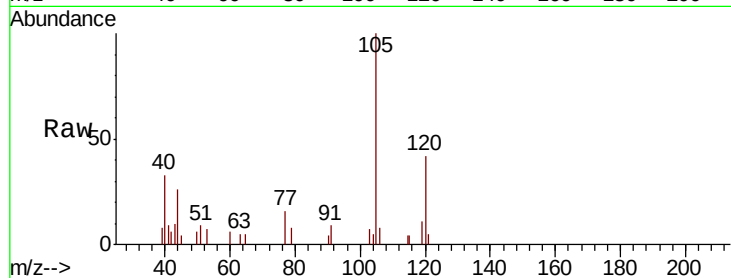
TP-TRACK-8-9

Tot Ion:105 Resp: 5996

Ion Ratio Lower Upper

105 100

120 41.5 22.4 67.3



#95

Naphthalene

Concen: 4.734 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055158.D

Acq: 19 Apr 2019 23:46

Tgt Ion:128 Resp: 14597

Ion Ratio Lower Upper

128 100

127 13.5 10.1 15.1

129 11.3 8.8 13.2

