

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041619\
 Data File : VN055081.D
 Acq On : 16 Apr 2019 16:26
 Operator : JC/SP
 Sample : K2422-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP1-D

Quant Time: Apr 17 01:39:38 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	7.66	168	521086	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	833730	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	703855	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	223731	50.00	ug/l	0.00

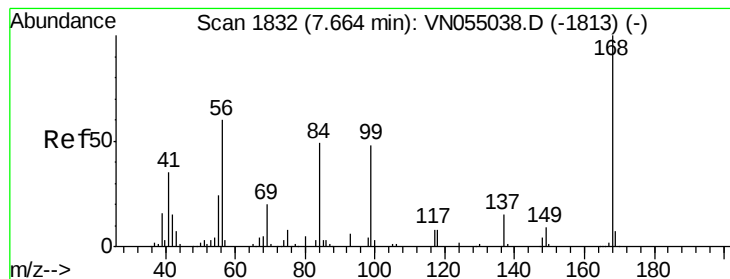
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	323616	46.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.44%	
35) Dibromofluoromethane	7.59	113	261176	46.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.74%	
50) Toluene-d8	10.09	98	983450	49.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.64%	
62) 4-Bromofluorobenzene	12.40	95	291375	44.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.88%	

Target Compounds

					Qvalue	
13) Acrolein	3.62	56	195	0.416	ug/l	92
16) Acetone	3.82	43	7288	3.877	ug/l	92
20) Methylene Chloride	4.54	84	13141	1.988	ug/l #	88
25) 2-Butanone	6.86	43	1271	0.453	ug/l #	53
30) Chloroform	7.37	83	3612	0.336	ug/l #	81
31) Cyclohexane	7.66	56	11021	Below Cal	#	4
36) 1,1-Dichloropropene	7.66	75	38296	4.873	ug/l #	49
38) Carbon Tetrachloride	7.66	117	47656	6.373	ug/l #	16
43) Isopropyl Acetate	8.17	43	13111	1.330	ug/l	98
48) Methyl methacrylate	9.18	41	7004	1.433	ug/l #	32
51) 4-Methyl-2-Pentanone	10.03	43	6840	1.201	ug/l #	39
54) cis-1,3-Dichloropropene	9.90	75	45353	5.394	ug/l #	66
57) 1,3-Dichloropropane	10.76	76	9006	1.012	ug/l #	43
59) 2-Hexanone	10.76	43	141467	39.543	ug/l #	54
74) N-amyl acetate	11.88	43	14535	2.601	ug/l #	55
76) 1,2,3-Trichloropropane	12.40	75	149073	37.053	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	5876	0.367	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	149073	148.170	ug/l #	2
93) 1,2,4-Trichlorobenzene	14.91	180	476	2.808	ug/l #	62
95) Naphthalene	15.13	128	3188	3.453	ug/l #	91

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055081.D

Acq: 16 Apr 2019 16:26

Instrument :

MSVOA_N

ClientSampled :

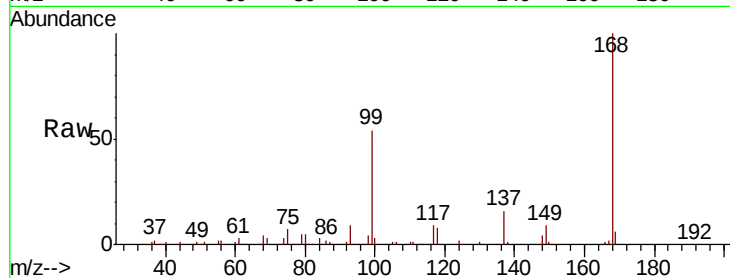
TP1-D

Tot Ion:168 Resp: 521086

Ion Ratio Lower Upper

168 100

99 53.8 41.9 62.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

200000

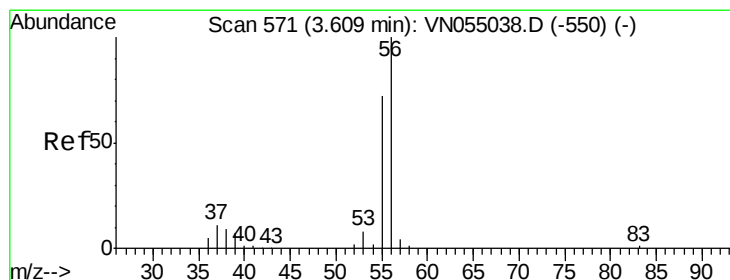
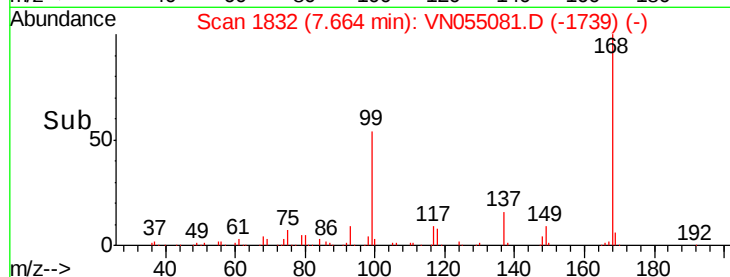
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 0.416 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN055081.D

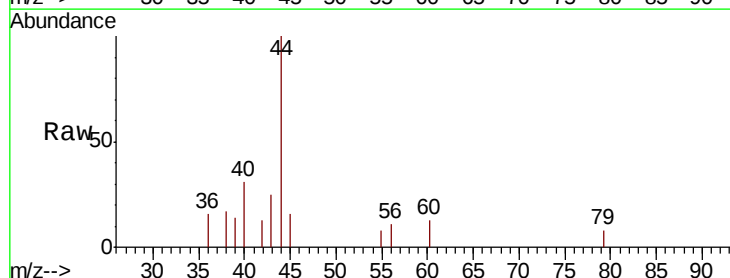
Acq: 16 Apr 2019 16:26

Tgt Ion: 56 Resp: 195

Ion Ratio Lower Upper

56 100

55 81.5 59.5 89.3



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

3.62

250

200

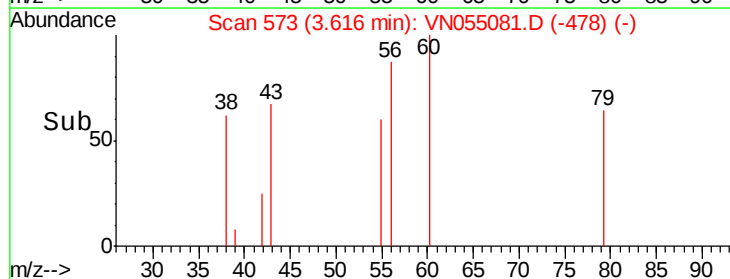
150

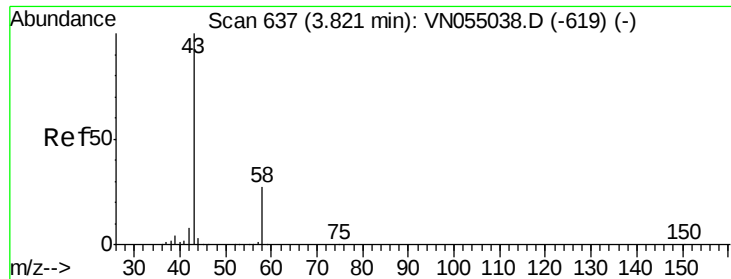
100

50

0

Time-->





#16

Acetone

Concen: 3.877 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN055081.D

Acq: 16 Apr 2019 16:26

Instrument :

MSVOA_N

ClientSampleId :

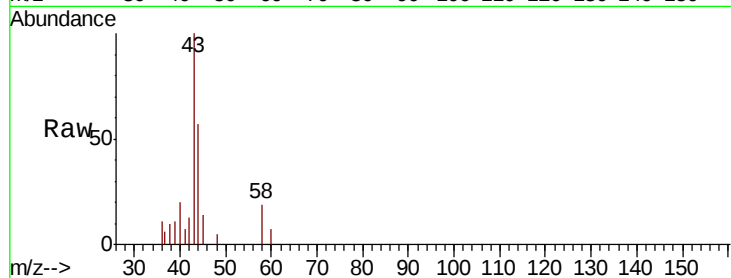
TP1-D

Tot Ion: 43 Resp: 7288

Ion Ratio Lower Upper

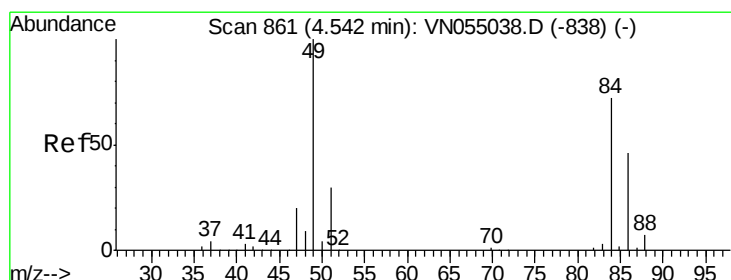
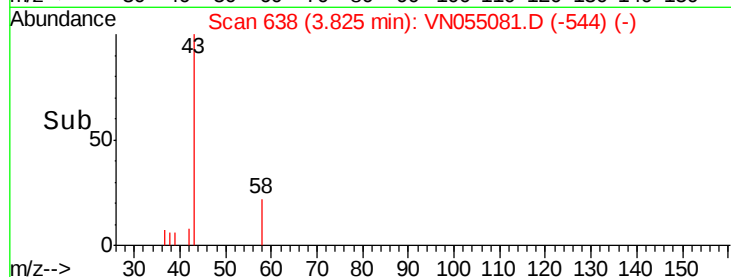
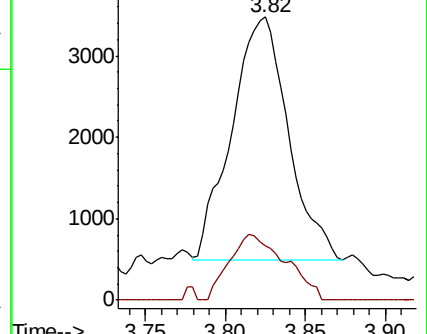
43 100

58 22.0 20.9 31.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#20

Methylene Chloride

Concen: 1.988 ug/l

RT: 4.54 min Scan# 862

Delta R.T. 0.00 min

Lab File: VN055081.D

Acq: 16 Apr 2019 16:26

Tgt Ion: 84 Resp: 13141

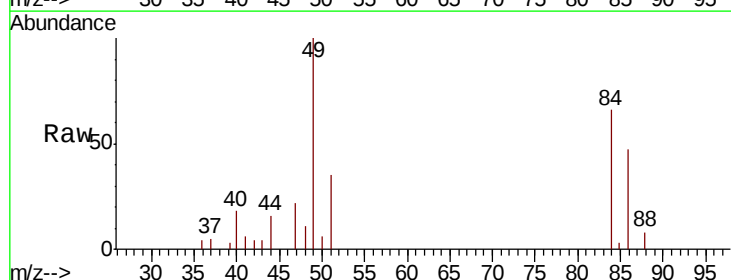
Ion Ratio Lower Upper

84 100

49 147.3 109.4 164.2

51 52.6 32.2 48.4#

86 71.0 49.3 73.9

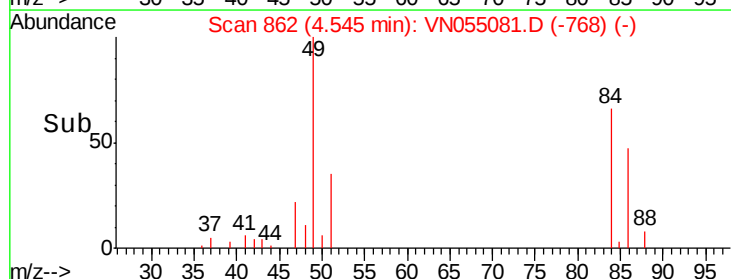
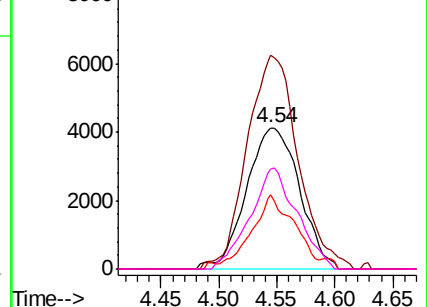


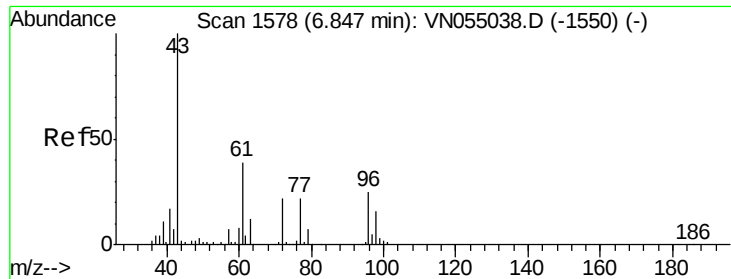
Abundance Ion 83.90 (83.60 to 84.60): VN0

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: 0.453 ug/l

RT: 6.86 min Scan# 1583

Delta R.T. 0.02 min

Lab File: VN055081.D

Acq: 16 Apr 2019 16:26

Instrument :

MSVOA_N

ClientSampled :

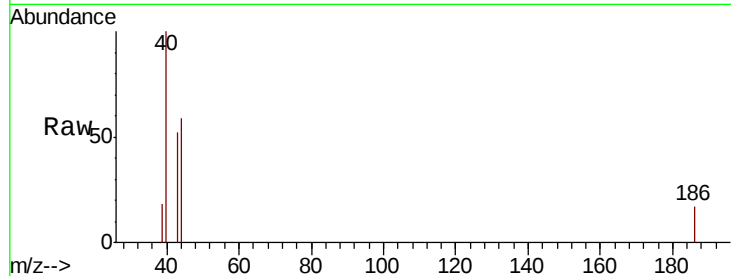
TP1-D

Tot Ion: 43 Resp: 1271

Ion Ratio Lower Upper

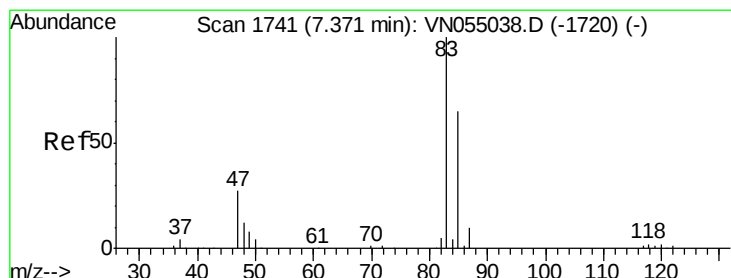
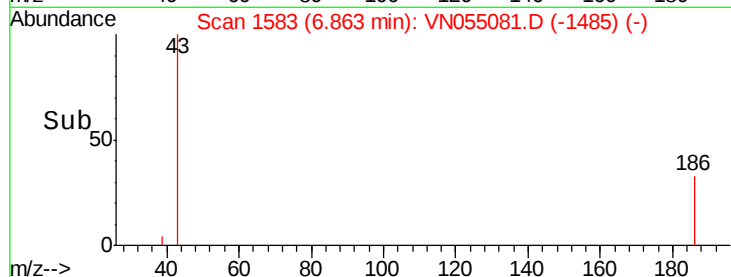
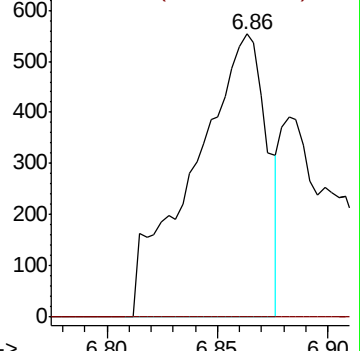
43 100

72 0.0 18.1 27.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#30

Chloroform

Concen: 0.336 ug/l

RT: 7.37 min Scan# 1740

Delta R.T. -0.00 min

Lab File: VN055081.D

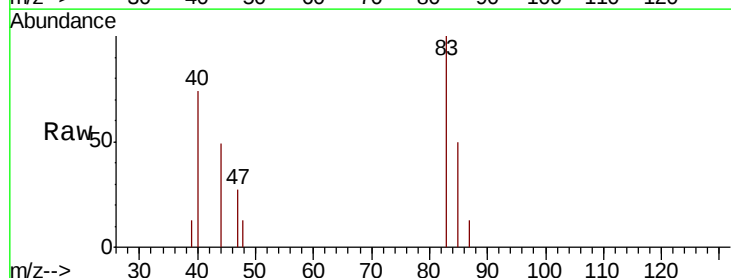
Acq: 16 Apr 2019 16:26

Tgt Ion: 83 Resp: 3612

Ion Ratio Lower Upper

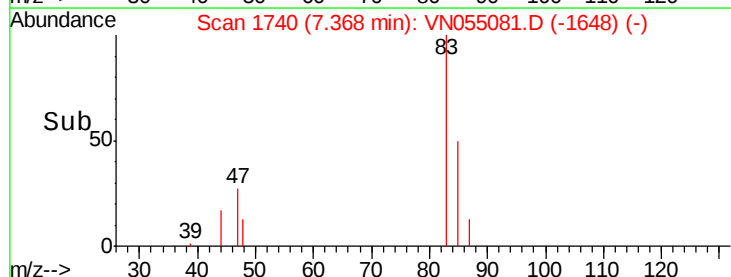
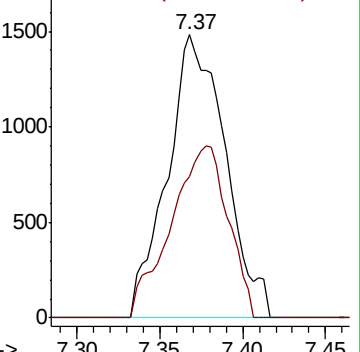
83 100

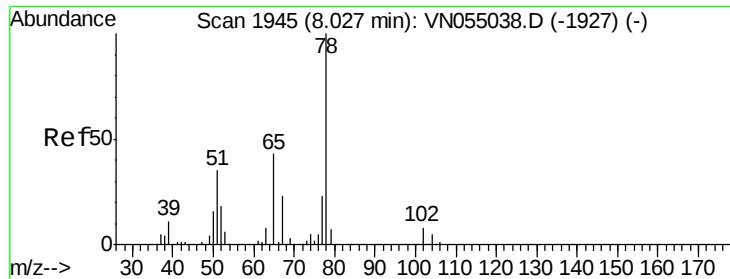
85 50.1 51.8 77.6#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

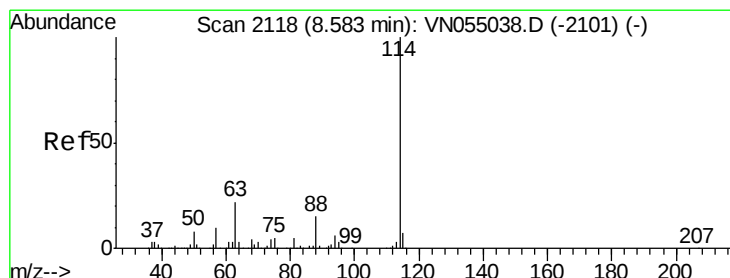
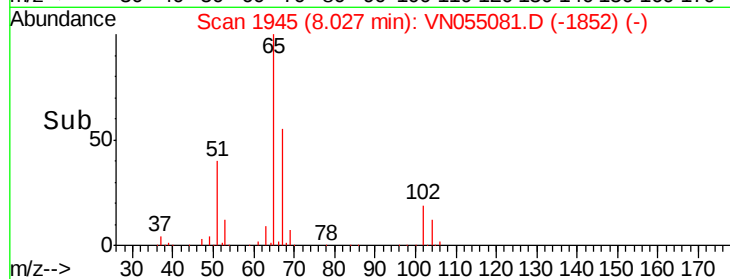
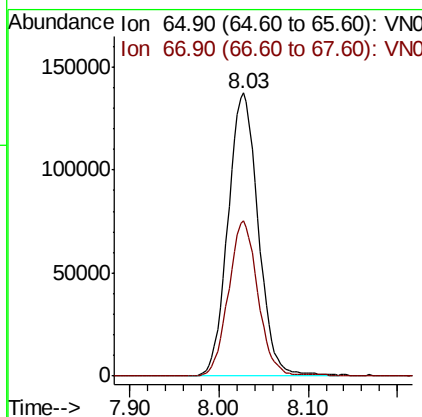
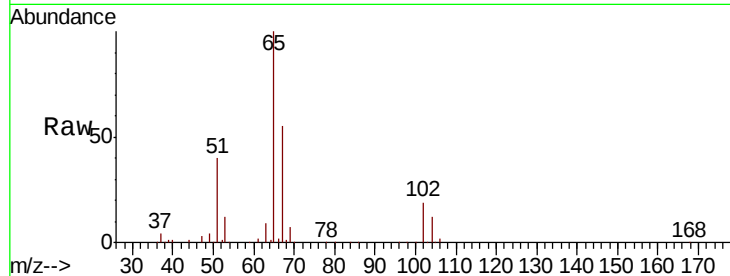




#33
 1,2-Dichloroethane-d4
 Concen: 46.721 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055081.D
 Acq: 16 Apr 2019 16:26

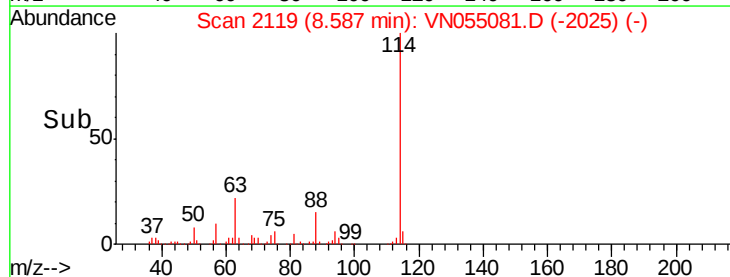
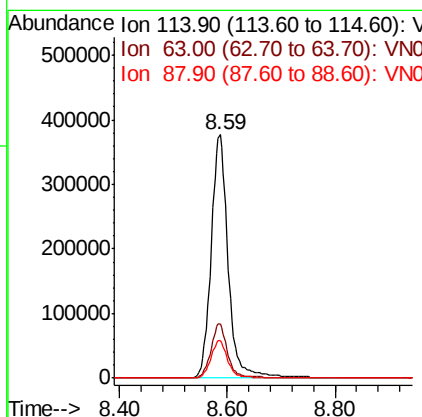
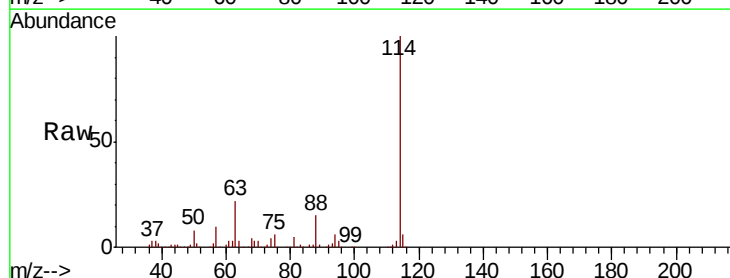
Instrument :
 MSVOA_N
 ClientSampleId :
 TP1-D

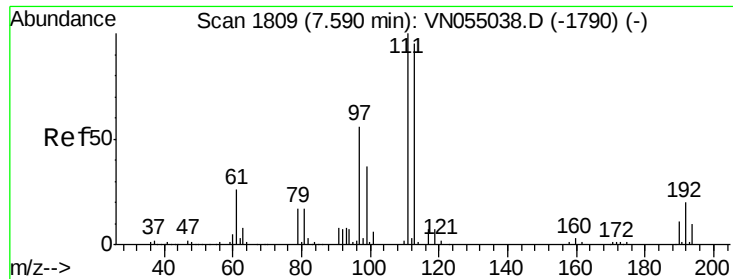
Tot Ion: 65 Resp: 323616
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 106.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055081.D
 Acq: 16 Apr 2019 16:26

Tgt Ion: 114 Resp: 833730
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 45.2
 88 15.4 0.0 31.8





#35

Dibromofluoromethane

Concen: 46.874 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN055081.D

Acq: 16 Apr 2019 16:26

Instrument :

MSVOA_N

ClientSampled :

TP1-D

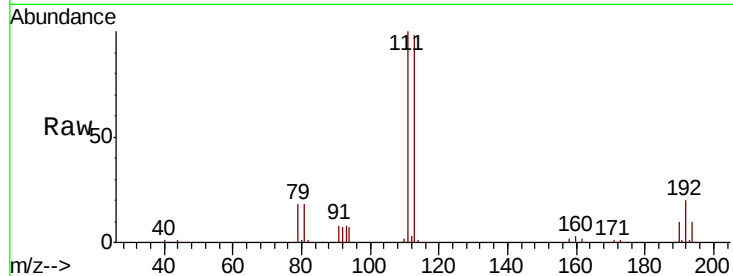
Tot Ion:113 Resp: 261176

Ion Ratio Lower Upper

113 100

111 102.6 82.1 123.1

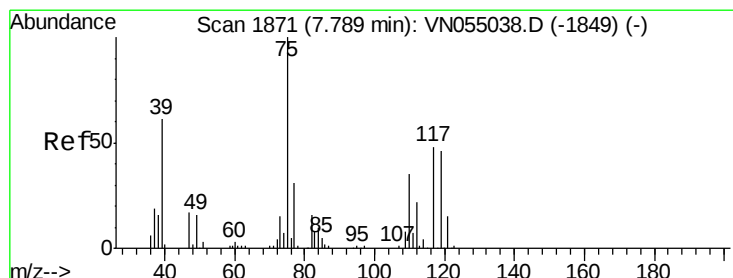
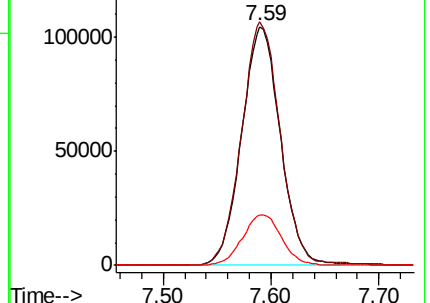
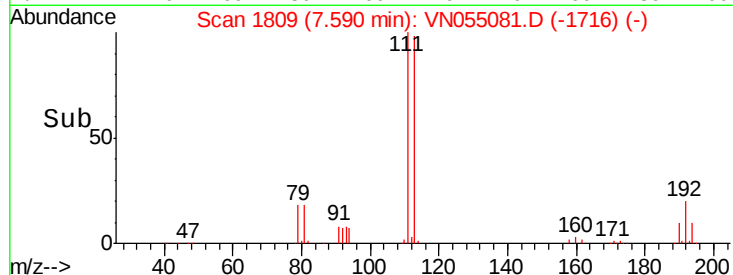
192 21.4 16.5 24.7



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.873 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN055081.D

Acq: 16 Apr 2019 16:26

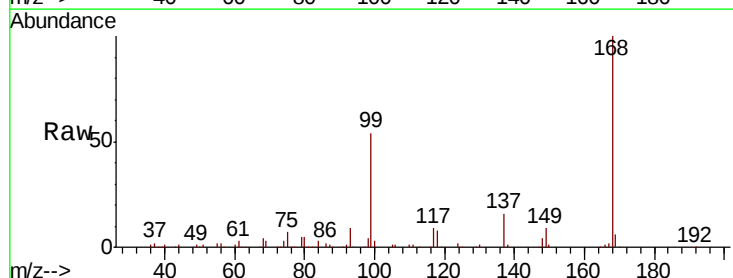
Tgt Ion: 75 Resp: 38296

Ion Ratio Lower Upper

75 100

110 8.6 17.5 52.5#

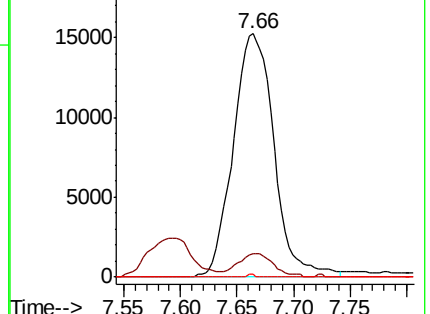
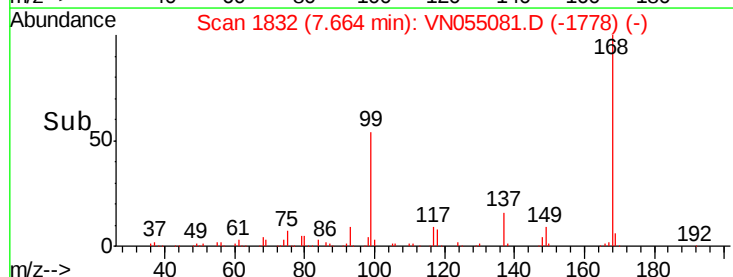
77 0.2 24.9 37.3#

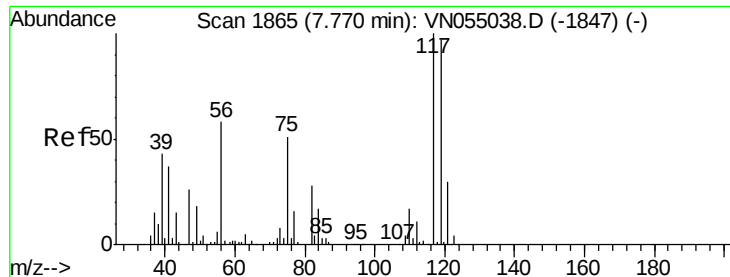


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

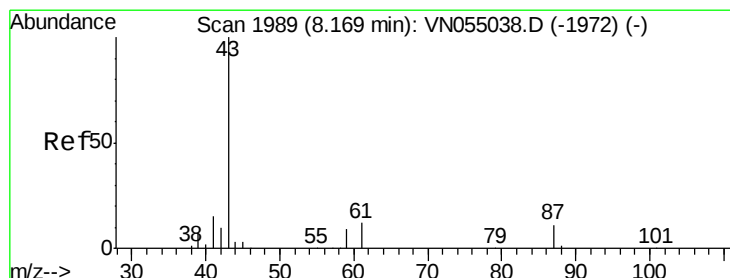
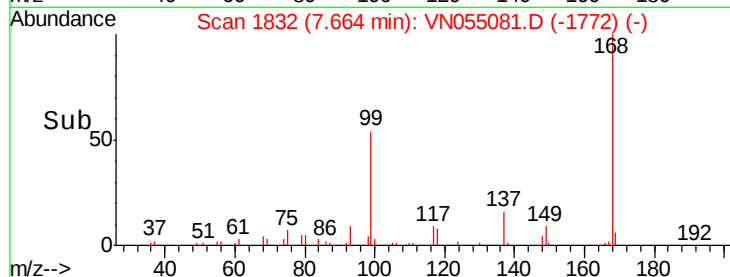
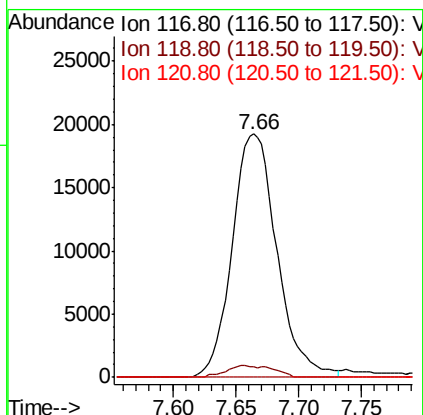
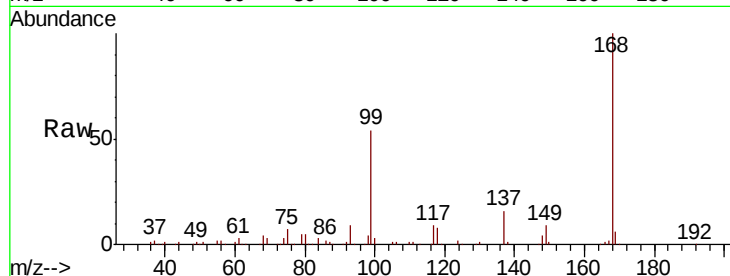




#38
Carbon Tetrachloride
Concen: 6.373 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN055081.D
Acq: 16 Apr 2019 16:26

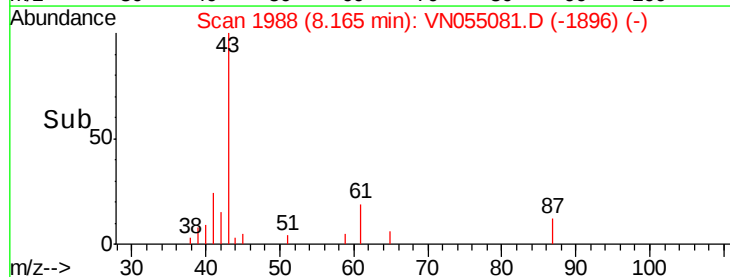
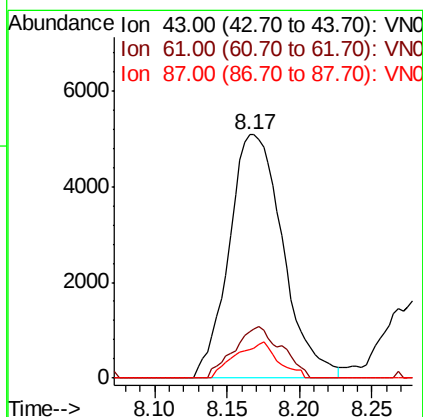
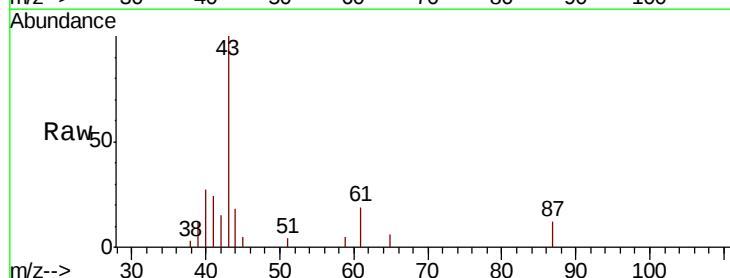
Instrument :
MSVOA_N
ClientSampled :
TP1-D

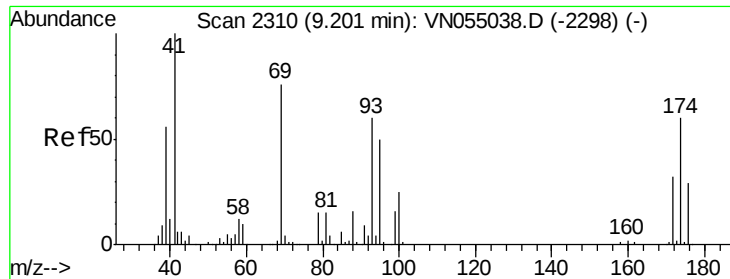
Tot Ion:117 Resp: 47656
Ion Ratio Lower Upper
117 100
119 4.3 76.3 114.5#
121 0.0 23.9 35.9#



#43
Isopropyl Acetate
Concen: 1.330 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VN055081.D
Acq: 16 Apr 2019 16:26

Tgt Ion: 43 Resp: 13111
Ion Ratio Lower Upper
43 100
61 18.6 14.3 21.5
87 11.7 8.6 13.0

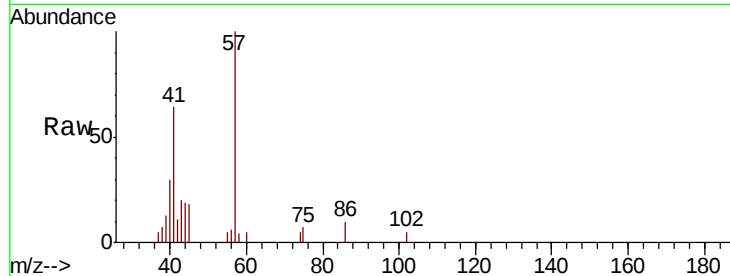




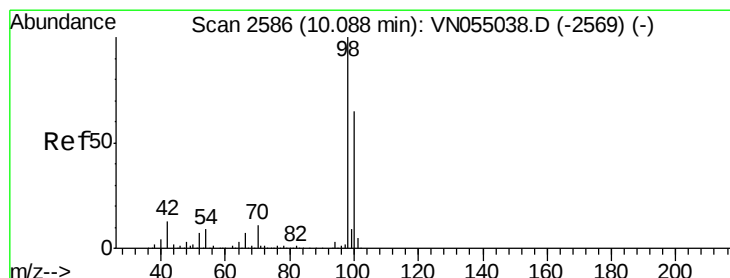
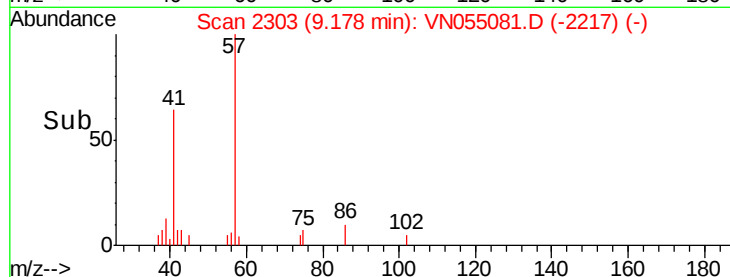
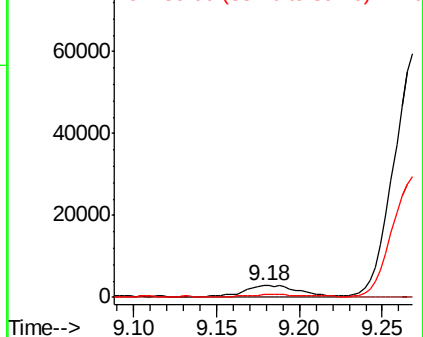
#48
Methyl methacrylate
Concen: 1.433 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN055081.D
Acq: 16 Apr 2019 16:26

Instrument :
MSVOA_N
ClientSampleId :
TP1-D

Tot Ion: 41 Resp: 7004
Ion Ratio Lower Upper
41 100
69 0.0 60.5 90.7#
39 25.5 43.9 65.9#

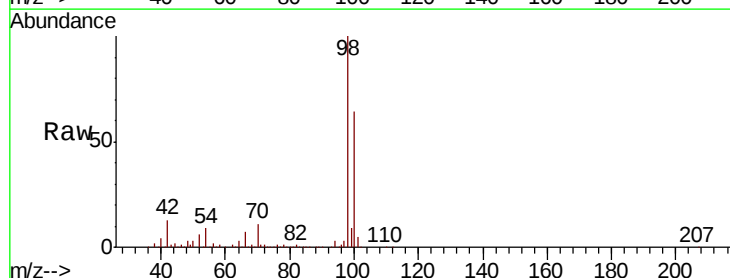


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

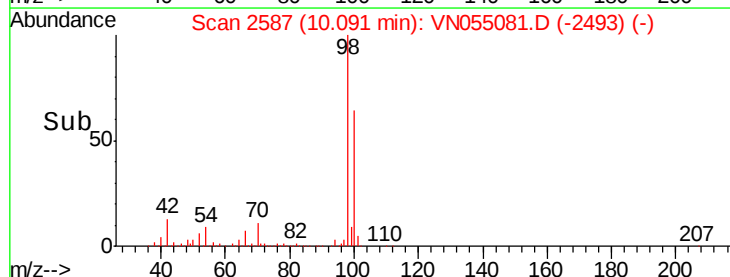
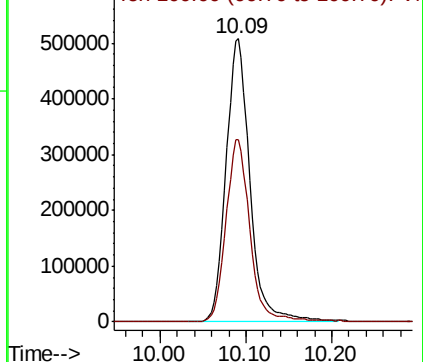


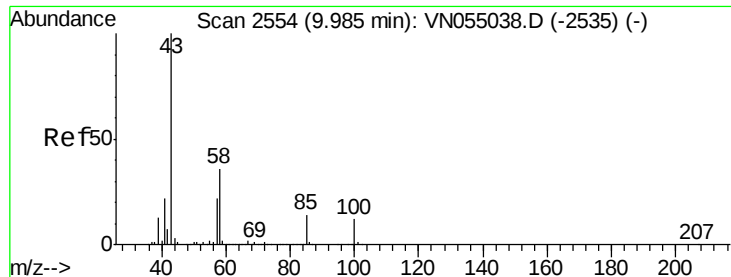
#50
Toluene-d8
Concen: 49.315 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN055081.D
Acq: 16 Apr 2019 16:26

Tgt Ion: 98 Resp: 983450
Ion Ratio Lower Upper
98 100
100 64.7 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.201 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN055081.D

Acq: 16 Apr 2019 16:26

Instrument :

MSVOA_N

ClientSampled :

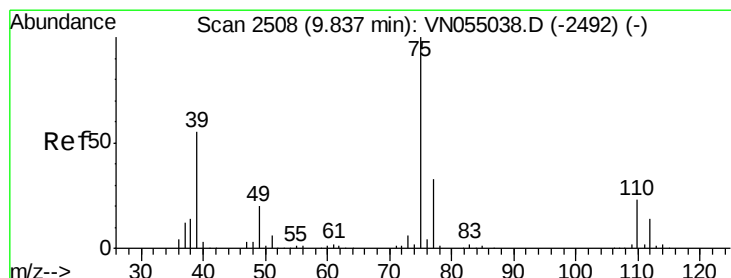
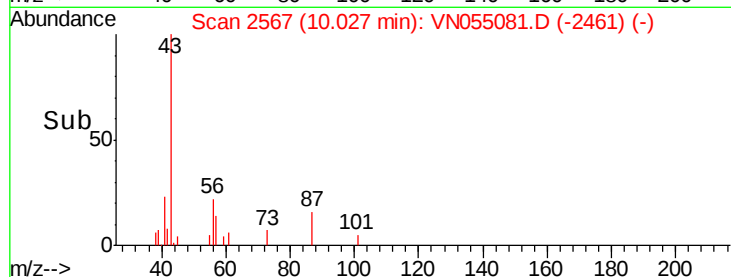
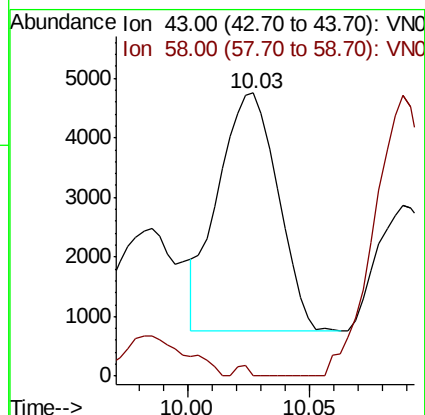
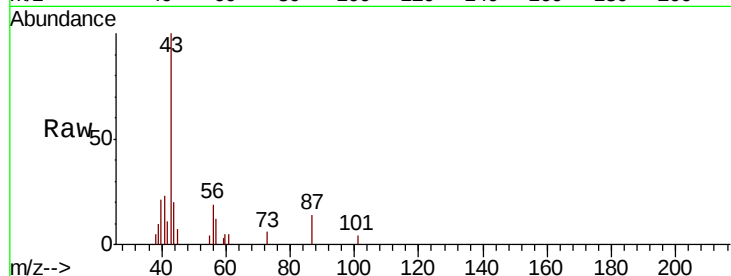
TP1-D

Tot Ion: 43 Resp: 6840

Ion Ratio Lower Upper

43 100

58 0.0 29.0 43.4#



#54

cis-1,3-Dichloropropene

Concen: 5.394 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN055081.D

Acq: 16 Apr 2019 16:26

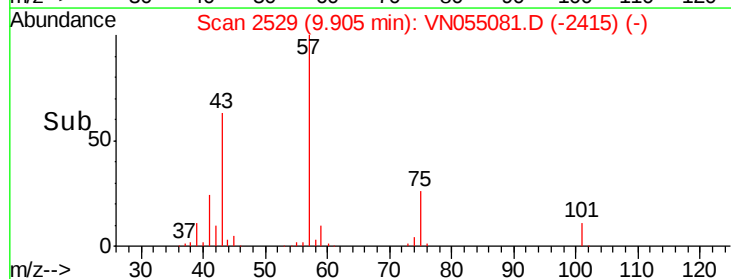
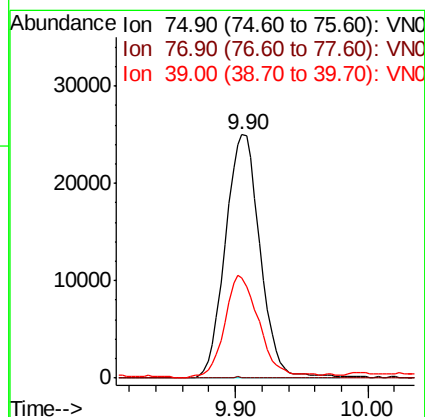
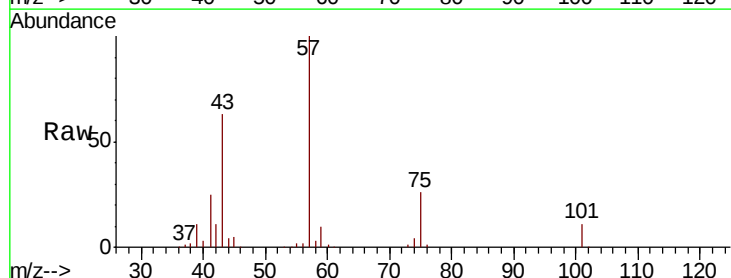
Tgt Ion: 75 Resp: 45353

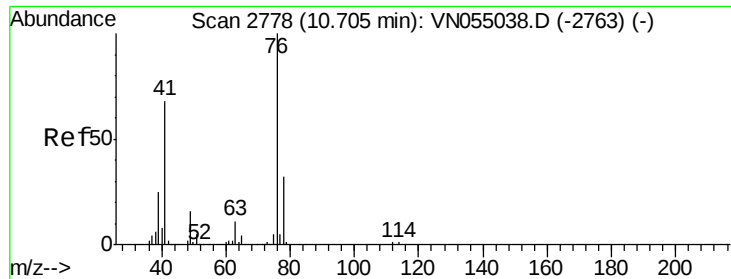
Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.6#

39 40.4 43.8 65.8#

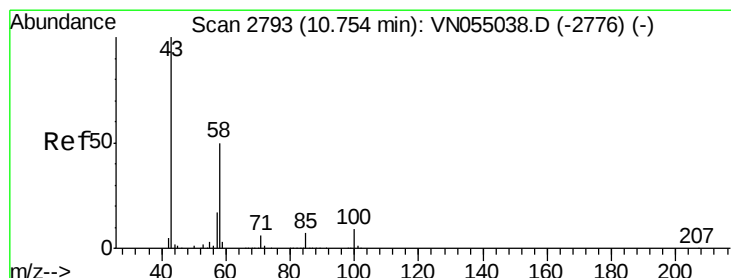
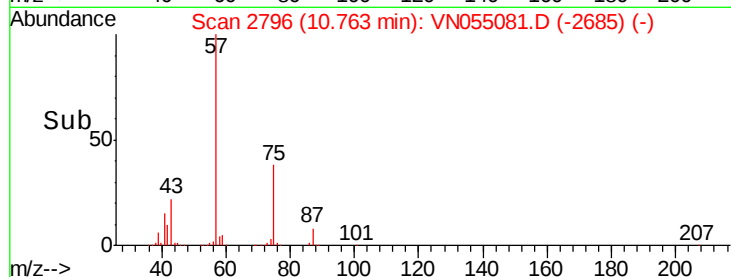
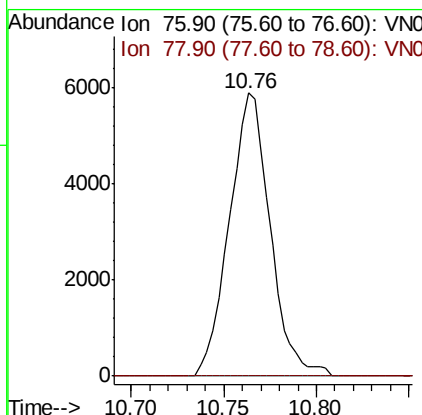
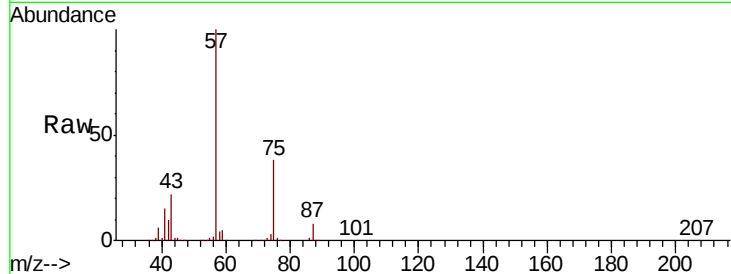




#57
 1,3-Dichloropropane
 Concen: 1.012 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN055081.D
 Acq: 16 Apr 2019 16:26

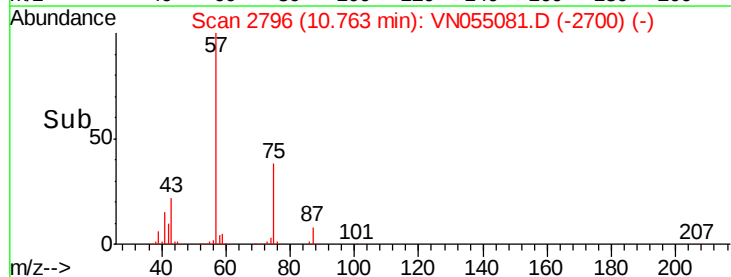
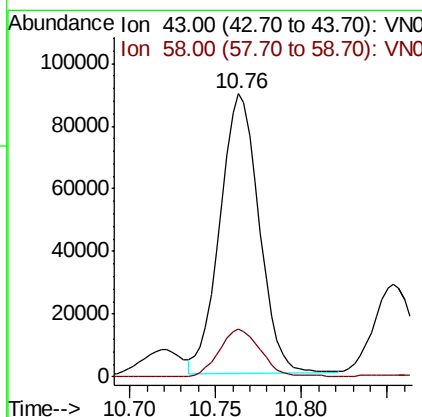
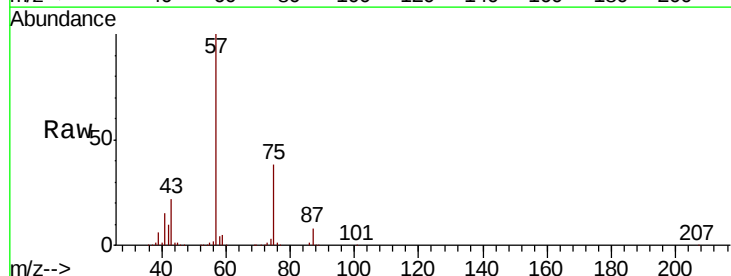
Instrument :
 MSVOA_N
 ClientSampleId :
 TP1-D

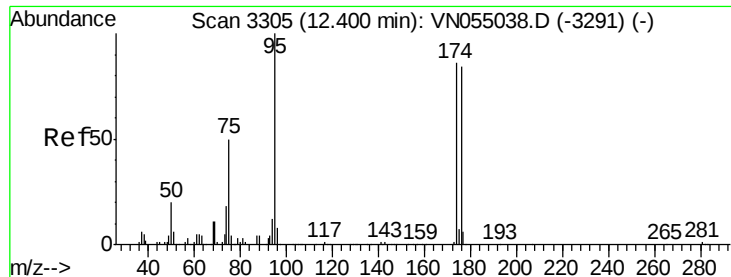
Tot Ion: 76 Resp: 9006
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 39.543 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN055081.D
 Acq: 16 Apr 2019 16:26

Tgt Ion: 43 Resp: 141467
 Ion Ratio Lower Upper
 43 100
 58 18.4 25.1 75.2#

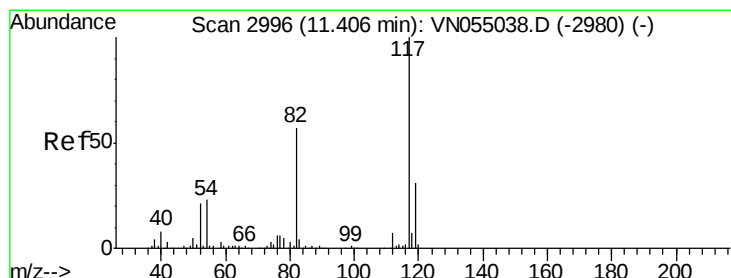
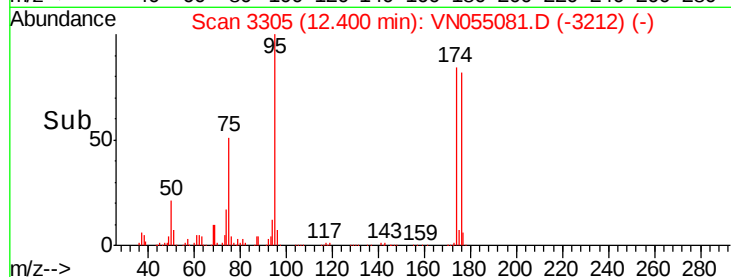
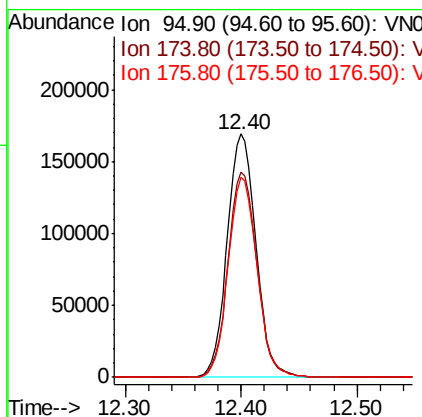
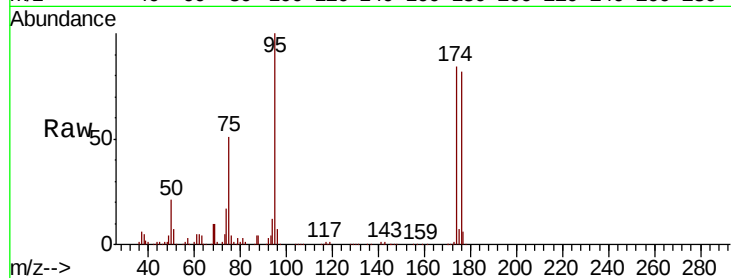




#62
 4-Bromofluorobenzene
 Concen: 44.943 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN055081.D
 Acq: 16 Apr 2019 16:26

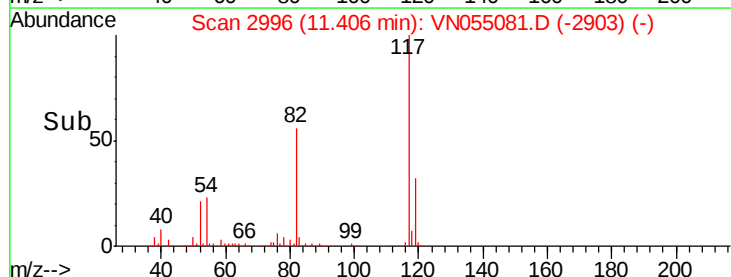
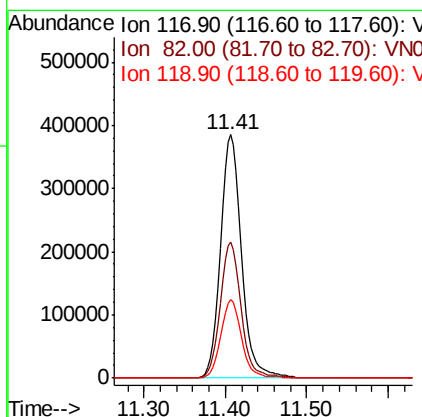
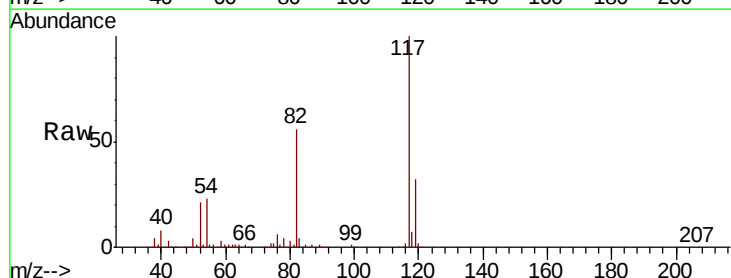
Instrument :
 MSVOA_N
 ClientSampleId :
 TP1-D

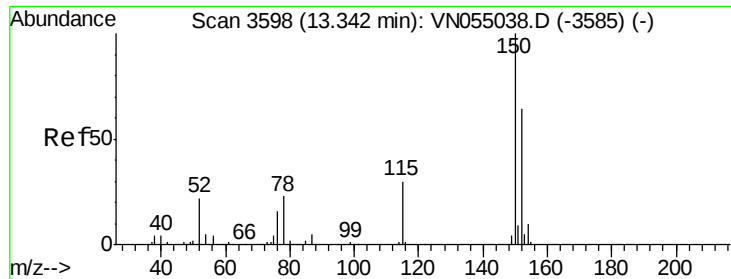
Tot Ion: 95 Resp: 291375
 Ion Ratio Lower Upper
 95 100
 174 84.8 0.0 174.4
 176 82.1 0.0 166.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.41 min Scan# 2996
 Delta R.T. 0.00 min
 Lab File: VN055081.D
 Acq: 16 Apr 2019 16:26

Tgt Ion: 117 Resp: 703855
 Ion Ratio Lower Upper
 117 100
 82 55.7 44.6 66.8
 119 32.3 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055081.D

Acq: 16 Apr 2019 16:26

Instrument :

MSVOA_N

ClientSampleId :

TP1-D

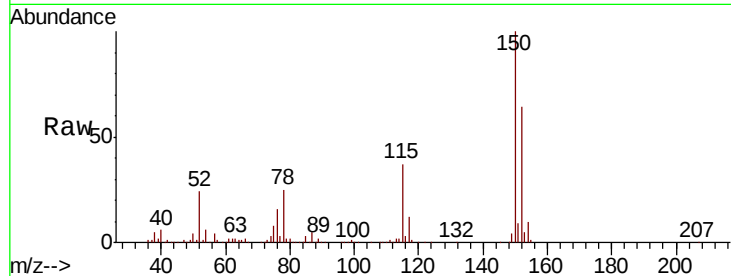
Tot Ion:152 Resp: 223731

Ion Ratio Lower Upper

152 100

115 57.8 28.5 85.6

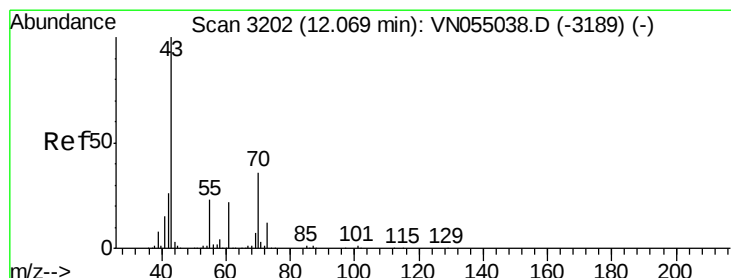
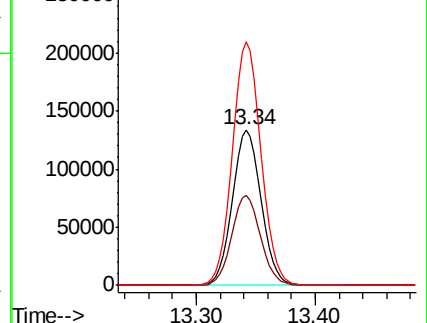
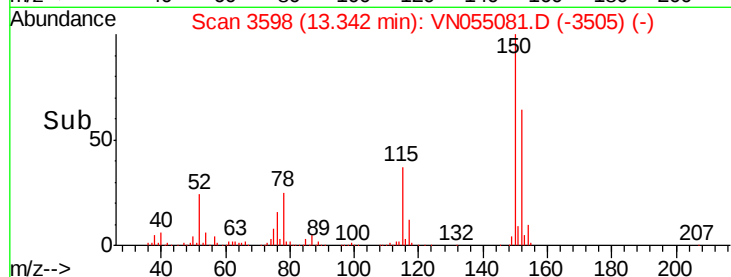
150 156.3 0.0 347.2



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-ethyl acetate

Concen: 2.601 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN055081.D

Acq: 16 Apr 2019 16:26

Tgt Ion: 43 Resp: 14535

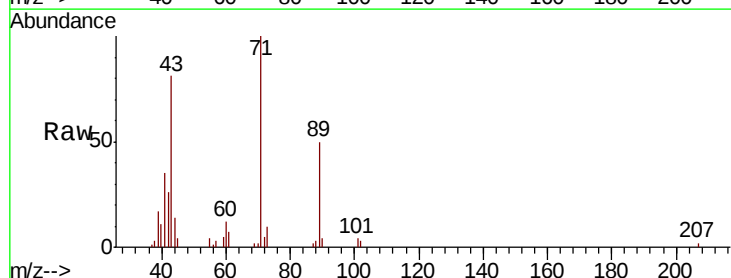
Ion Ratio Lower Upper

43 100

70 1.6 29.4 44.0#

55 4.9 19.0 28.4#

61 8.1 17.7 26.5#

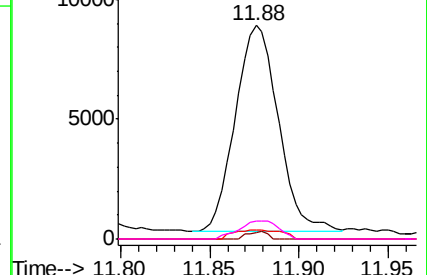
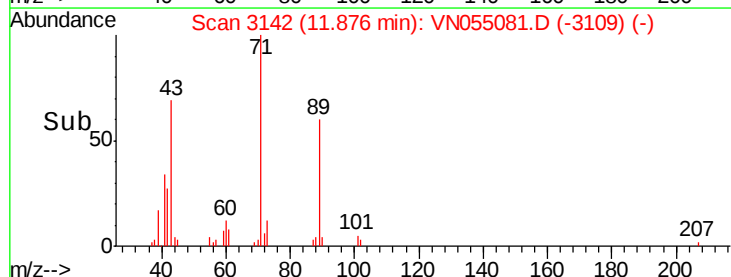


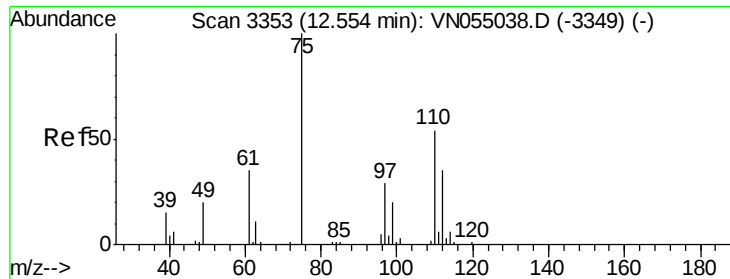
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 37.053 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055081.D

Acq: 16 Apr 2019 16:26

Instrument :

MSVOA_N

ClientSampled :

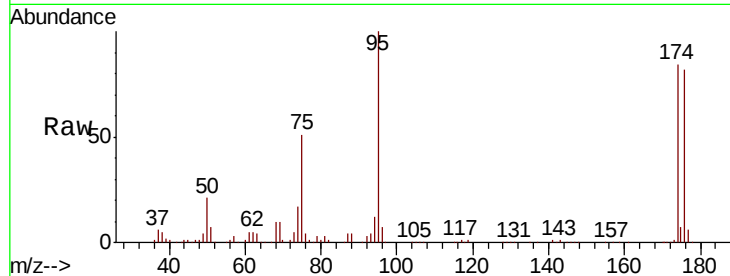
TP1-D

Tot Ion: 75 Resp: 149073

Ion Ratio Lower Upper

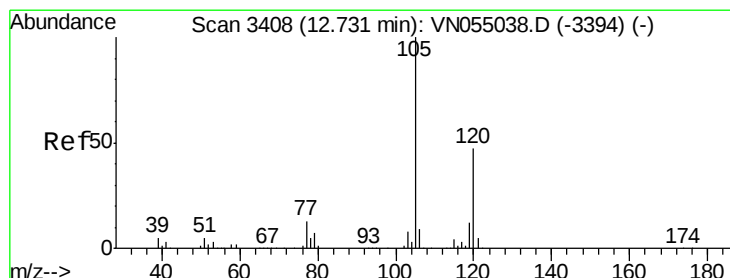
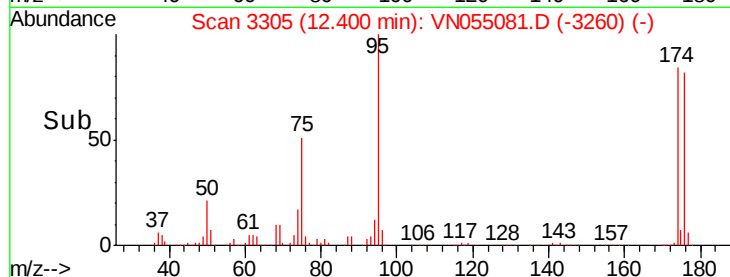
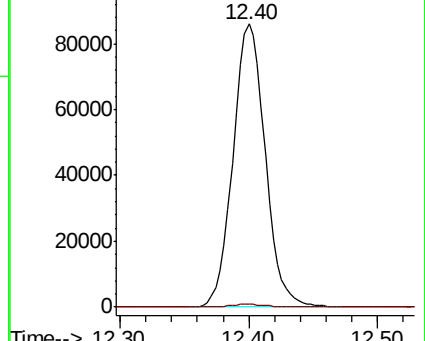
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN055081.D (-3260) (-)

Ion 77.00 (76.70 to 77.70): VN055081.D (-3260) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.367 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055081.D

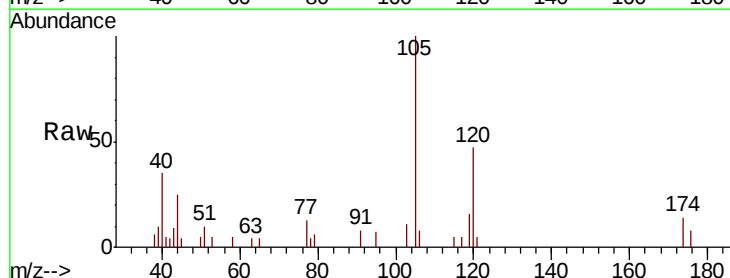
Acq: 16 Apr 2019 16:26

Tgt Ion: 105 Resp: 5876

Ion Ratio Lower Upper

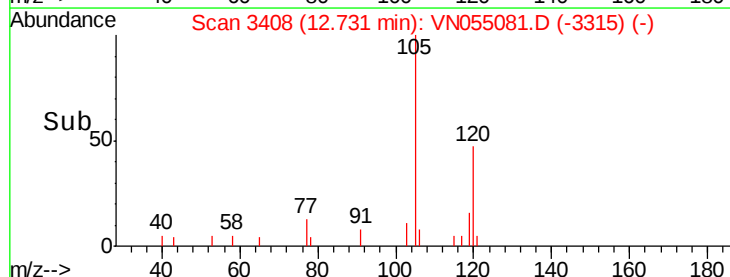
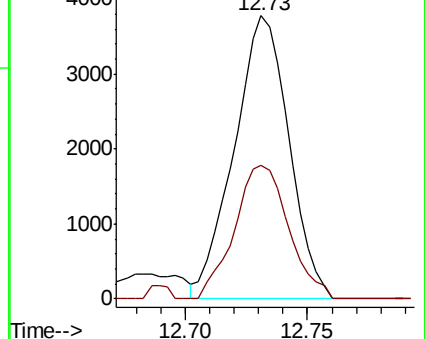
105 100

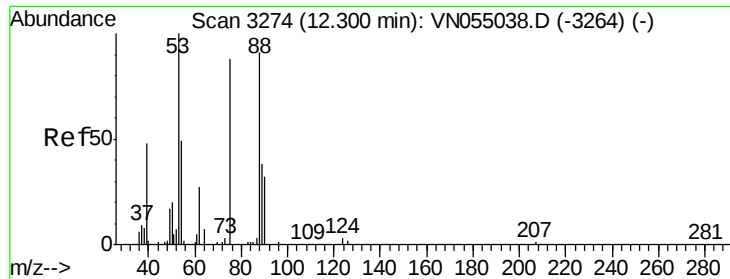
120 46.7 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): VN055081.D (-3315) (-)

Ion 120.00 (119.70 to 120.70): VN055081.D (-3315) (-)

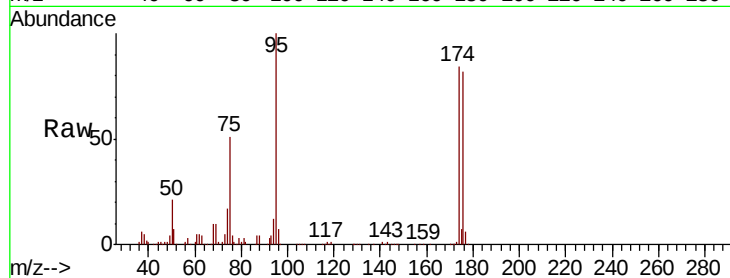




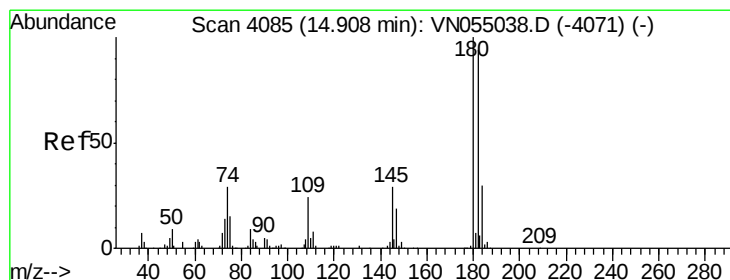
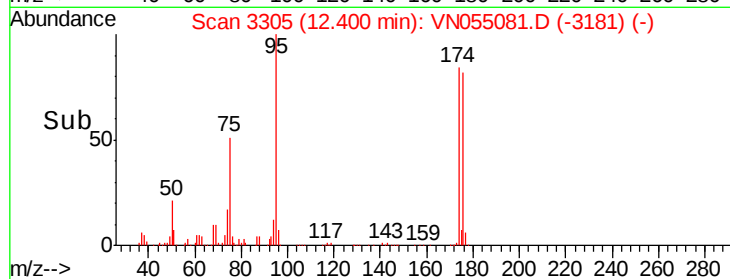
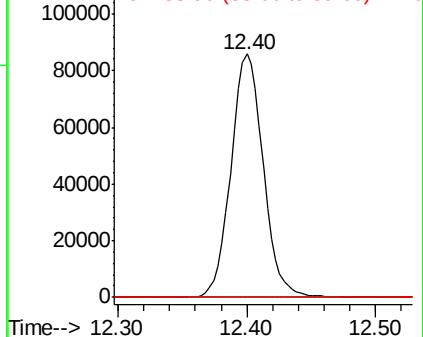
#81
trans-1,4-Dichloro-2-butene
Concen: 148.170 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN055081.D
Acq: 16 Apr 2019 16:26

Instrument :
MSVOA_N
ClientSampled :
TP1-D

Tot Ion: 75 Resp: 149073
Ion Ratio Lower Upper
75 100
53 0.0 96.3 144.5#
89 0.0 38.6 57.8#

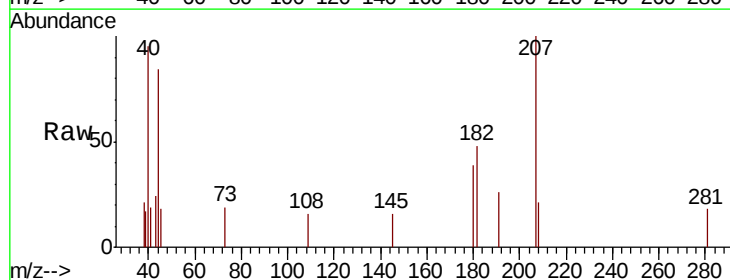


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0

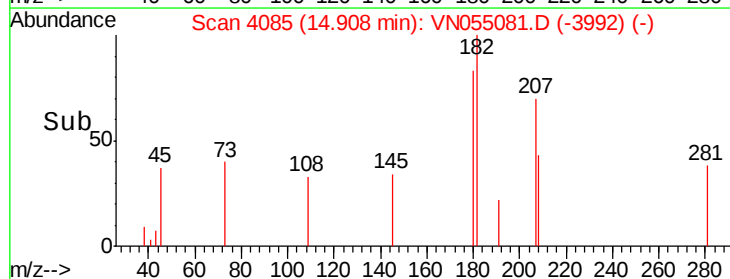
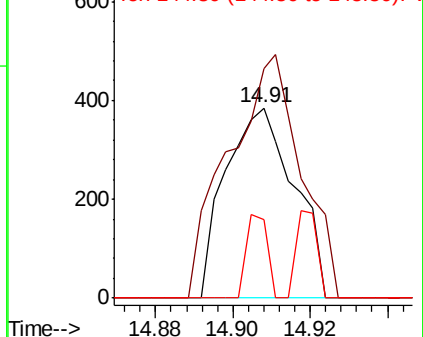


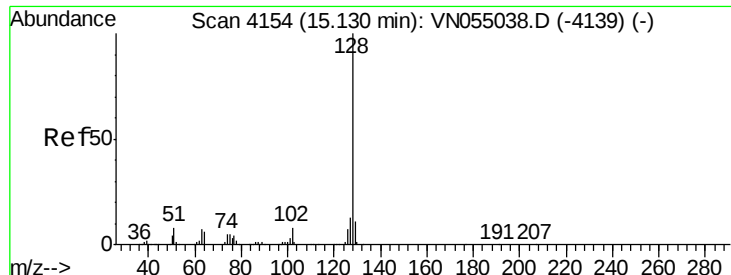
#93
1,2,4-Trichlorobenzene
Concen: 2.808 ug/l
RT: 14.91 min Scan# 4085
Delta R.T. 0.00 min
Lab File: VN055081.D
Acq: 16 Apr 2019 16:26

Tgt Ion:180 Resp: 476
Ion Ratio Lower Upper
180 100
182 134.7 47.5 142.6
145 13.2 14.2 42.8#



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 3.453 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055081.D

Acq: 16 Apr 2019 16:26

Instrument :

MSVOA_N

ClientSampleId :

TP1-D

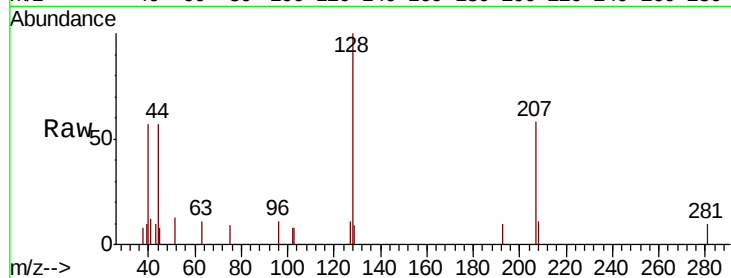
Tot Ion:128 Resp: 3188

Ion Ratio Lower Upper

128 100

127 7.4 10.1 15.1#

129 9.4 8.8 13.2



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

