

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041919\
 Data File : VN055163.D
 Acq On : 20 Apr 2019 1:54
 Operator : JC/SP
 Sample : K2203-14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SU-02-041819-A

Quant Time: Apr 20 04:30:24 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	544687	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	862152	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	697518	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	203569	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	344414	47.57	ug/l	0.00
Spiked Amount						
			Recovery	=	95.14%	
35) Dibromofluoromethane	7.59	113	277528	48.17	ug/l	0.00
Spiked Amount						
			Recovery	=	96.34%	
50) Toluene-d8	10.09	98	1024148	49.66	ug/l	0.00
Spiked Amount						
			Recovery	=	99.32%	
62) 4-Bromofluorobenzene	12.40	95	284520	42.44	ug/l	0.00
Spiked Amount						
			Recovery	=	84.88%	

Target Compounds

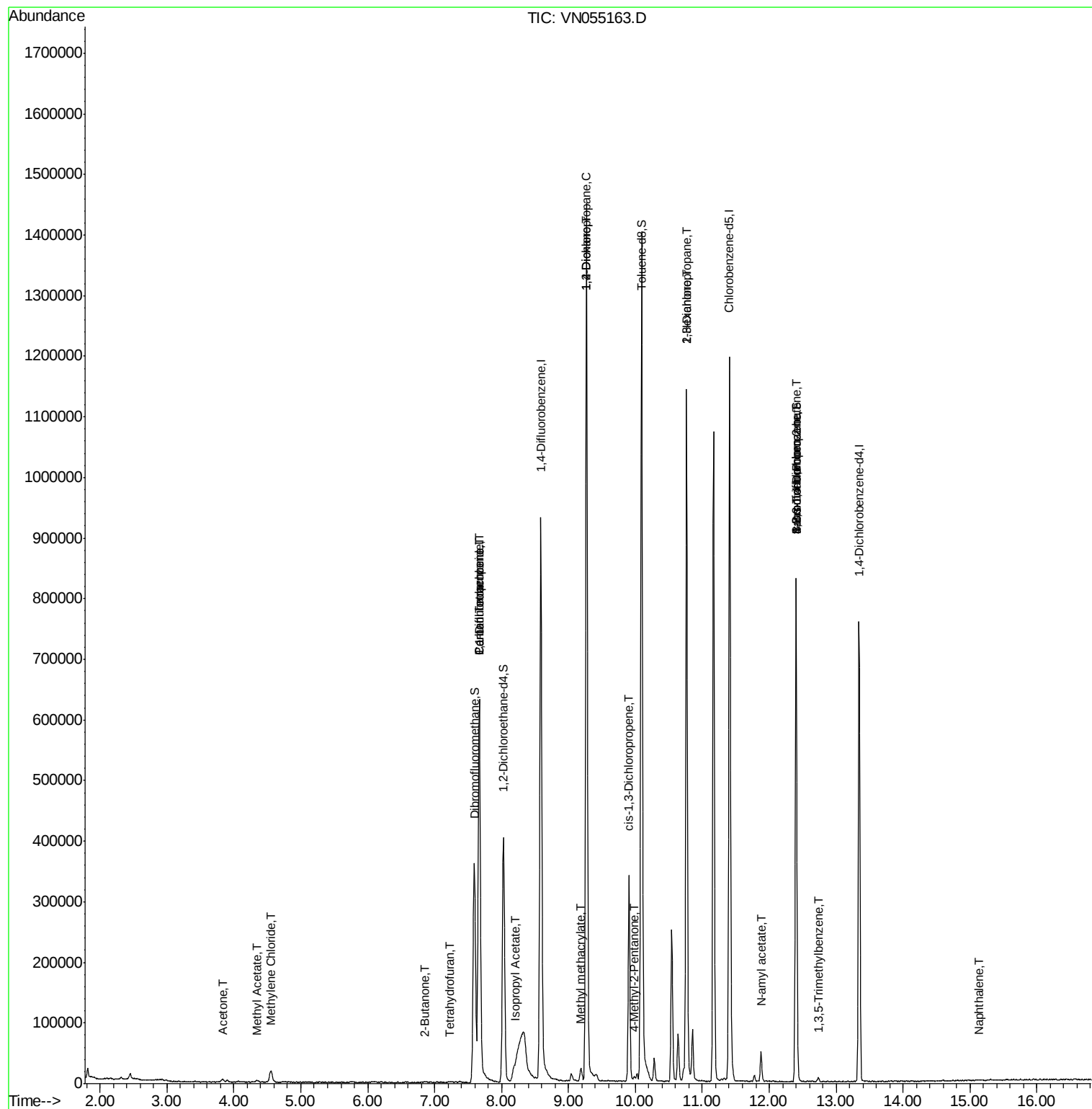
					Qvalue	
16) Acetone	3.83	43	8807	4.482	ug/l #	89
18) Methyl Acetate	4.34	43	6086	0.643	ug/l #	74
20) Methylene Chloride	4.55	84	12376	1.792	ug/l	94
25) 2-Butanone	6.85	43	889	0.303	ug/l #	53
29) Tetrahydrofuran	7.23	42	1956	1.017	ug/l #	69
31) Cyclohexane	7.66	56	10900	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	40285	4.957	ug/l #	49
38) Carbon Tetrachloride	7.67	117	52097	6.737	ug/l #	17
43) Isopropyl Acetate	8.19	43	27327	2.680	ug/l #	64
45) 1,2-Dichloropropane	9.27	63	1506	0.220	ug/l #	44
48) Methyl methacrylate	9.18	41	8387	1.660	ug/l #	17
49) 1,4-Dioxane	9.26	88	205	4.330	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	4252	0.722	ug/l	91
54) cis-1,3-Dichloropropene	9.90	75	56807	6.533	ug/l #	65
57) 1,3-Dichloropropane	10.77	76	11254	1.223	ug/l #	43
59) 2-Hexanone	10.76	43	182772	49.404	ug/l #	53
71) Bromoform	12.40	173	2569	0.868	ug/l #	1
74) N-amyl acetate	11.88	43	17764	3.493	ug/l #	55
76) 1,2,3-Trichloropropane	12.40	75	143189	39.116	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3201	0.220	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	143189	156.417	ug/l #	2
95) Naphthalene	15.14	128	645	3.163	ug/l #	69

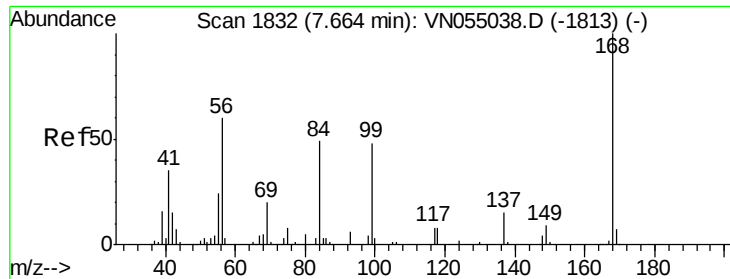
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN055163.D

Acq: 20 Apr 2019 1:54

Instrument :

MSVOA_N

ClientSampleId :

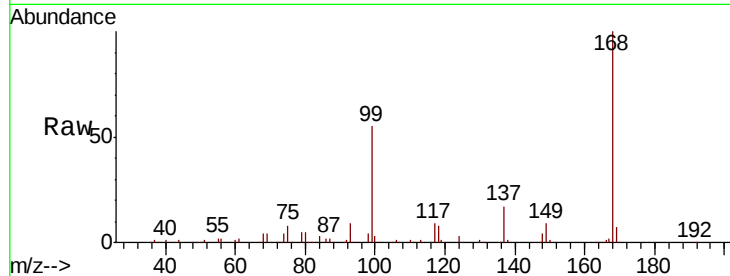
SU-02-041819-A

Tot Ion:168 Resp: 544687

Ion Ratio Lower Upper

168 100

99 54.6 41.9 62.9



Abundance Ion 167.90 (167.60 to 168.60): VN055163.D (-1739) (-)

Ion 98.90 (98.60 to 99.60): VN055163.D (-1739) (-)

7.67

250000

200000

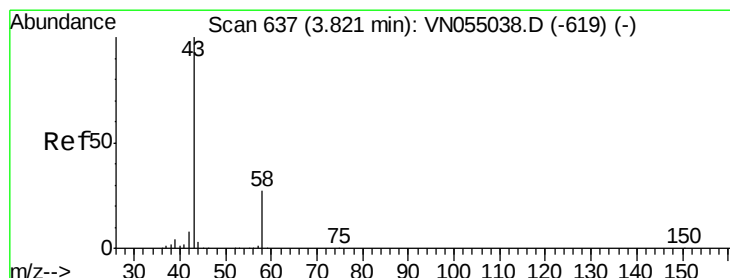
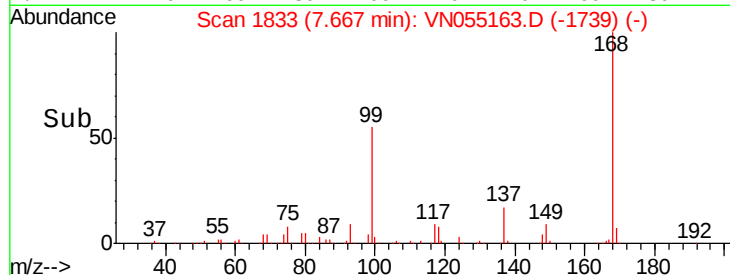
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 4.482 ug/l

RT: 3.83 min Scan# 641

Delta R.T. 0.01 min

Lab File: VN055163.D

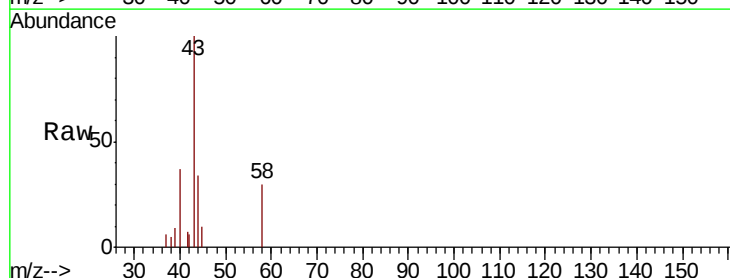
Acq: 20 Apr 2019 1:54

Tgt Ion: 43 Resp: 8807

Ion Ratio Lower Upper

43 100

58 31.8 20.9 31.3#



Abundance Ion 43.00 (42.70 to 43.70): VN055163.D (-544) (-)

Ion 58.00 (57.70 to 58.70): VN055163.D (-544) (-)

3.83

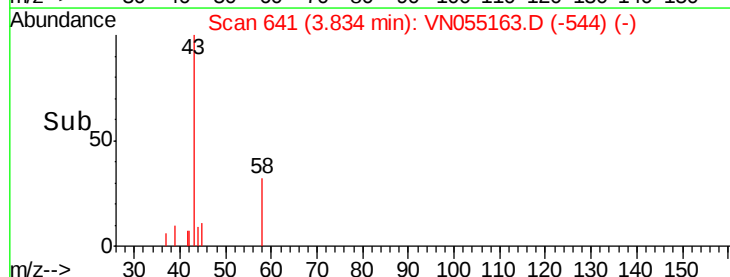
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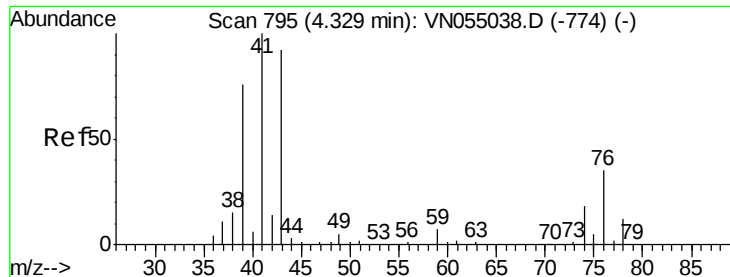
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1000

0

Time-->

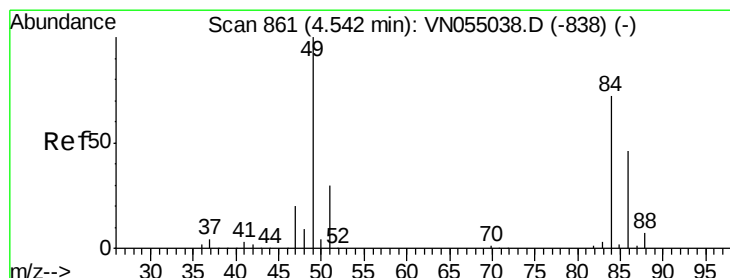
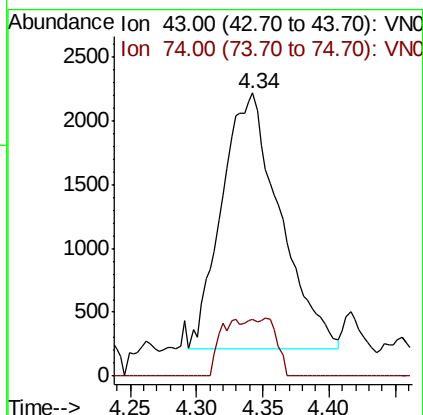
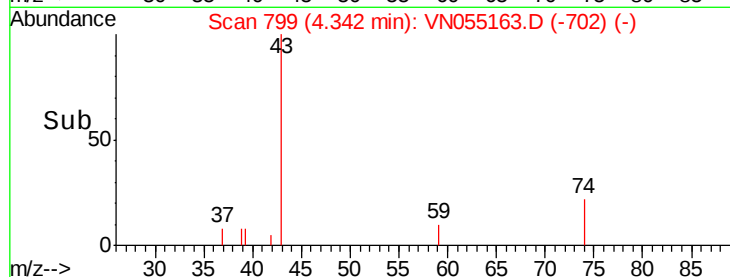
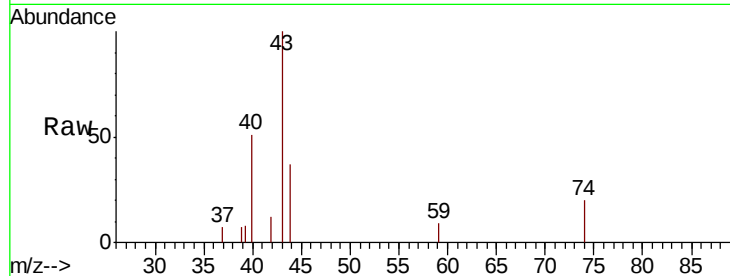




#18
Methyl Acetate
Concen: 0.643 ug/l
RT: 4.34 min Scan# 799
Delta R.T. 0.01 min
Lab File: VN055163.D
Acq: 20 Apr 2019 1:54

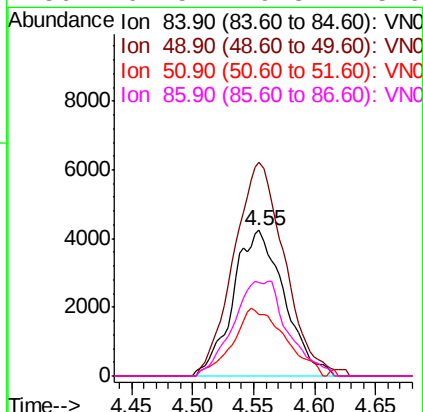
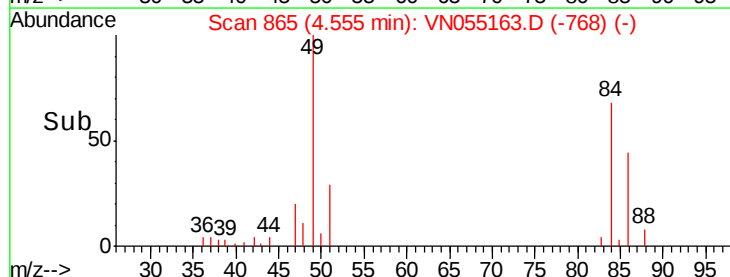
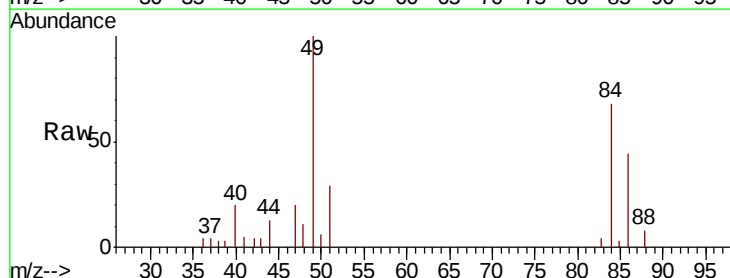
Instrument :
MSVOA_N
ClientSampleId :
SU-02-041819-A

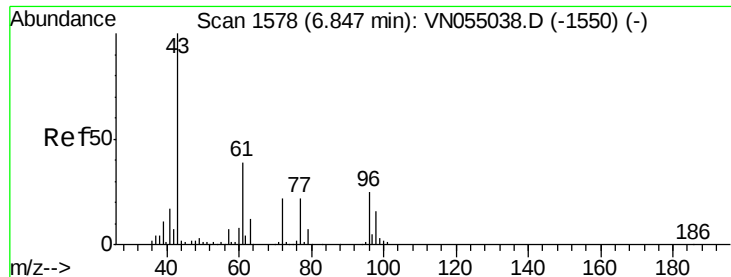
Tot Ion: 43 Resp: 6086
Ion Ratio Lower Upper
43 100
74 8.1 16.1 24.1#



#20
Methylene Chloride
Concen: 1.792 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.01 min
Lab File: VN055163.D
Acq: 20 Apr 2019 1:54

Tgt Ion: 84 Resp: 12376
Ion Ratio Lower Upper
84 100
49 146.9 109.4 164.2
51 42.0 32.2 48.4
86 64.5 49.3 73.9

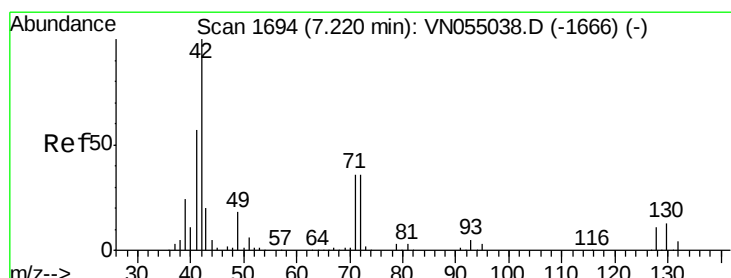
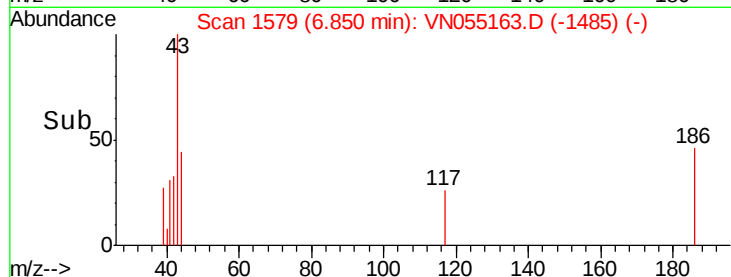
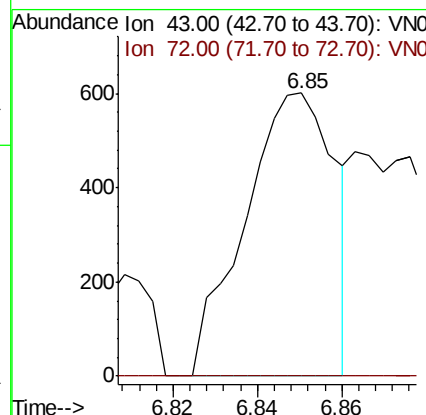
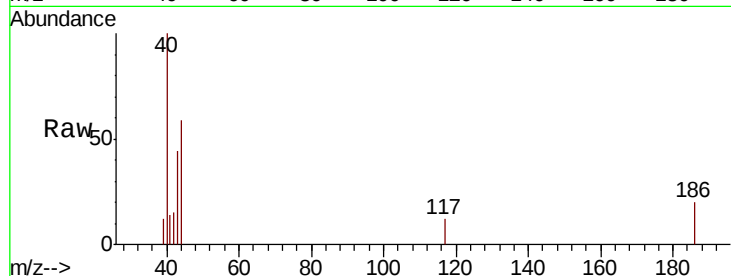




#25
2-Butanone
Concen: 0.303 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.00 min
Lab File: VN055163.D
Acq: 20 Apr 2019 1:54

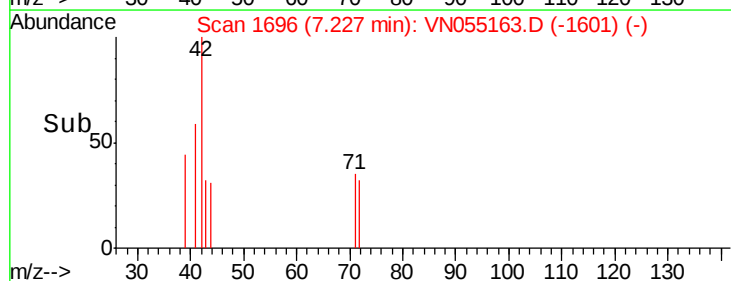
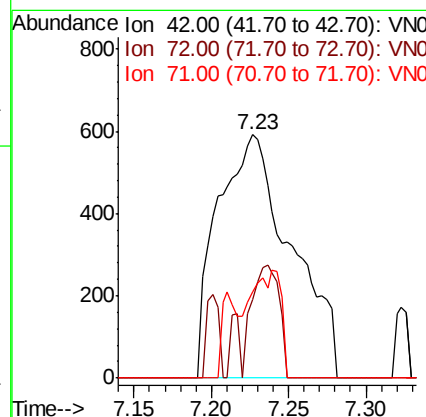
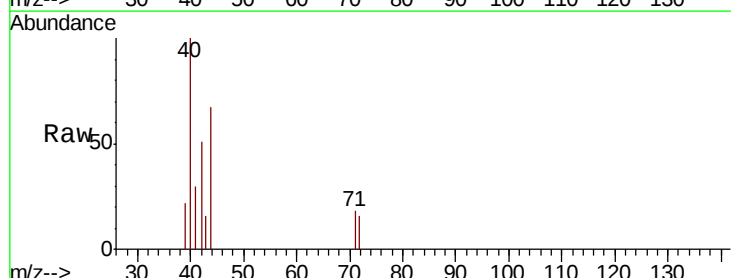
Instrument :
MSVOA_N
ClientSampleId :
SU-02-041819-A

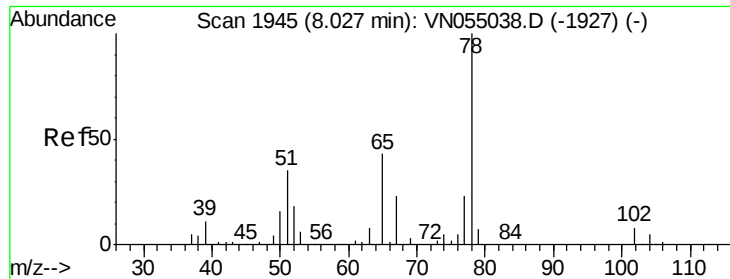
Tot Ion: 43 Resp: 889
Ion Ratio Lower Upper
43 100
72 0.0 18.1 27.1#



#29
Tetrahydrofuran
Concen: 1.017 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.01 min
Lab File: VN055163.D
Acq: 20 Apr 2019 1:54

Tgt Ion: 42 Resp: 1956
Ion Ratio Lower Upper
42 100
72 17.4 29.4 44.0#
71 17.8 27.8 41.6#

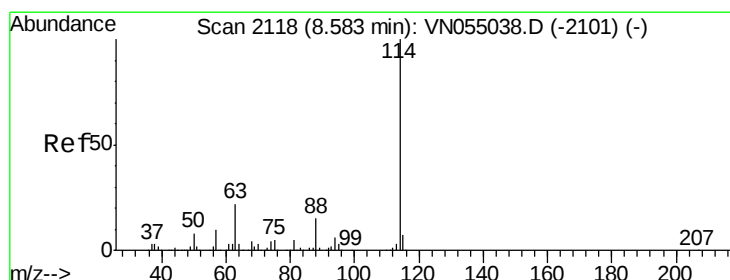
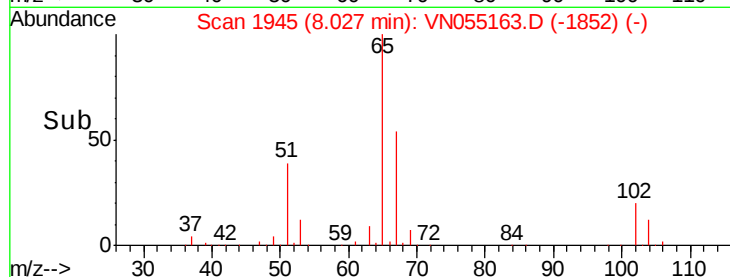
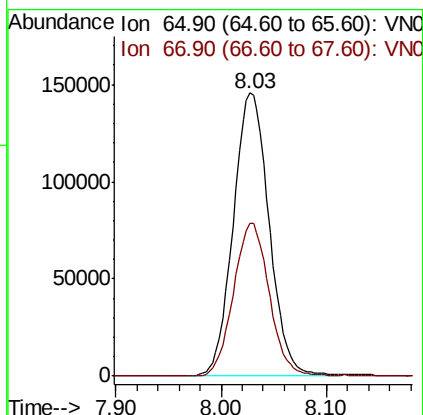
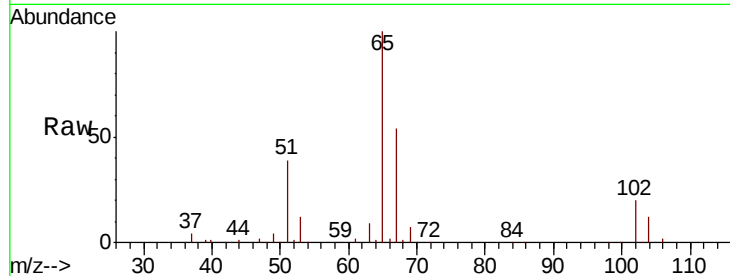




#33
 1,2-Dichloroethane-d4
 Concen: 47.569 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055163.D
 Acq: 20 Apr 2019 1:54

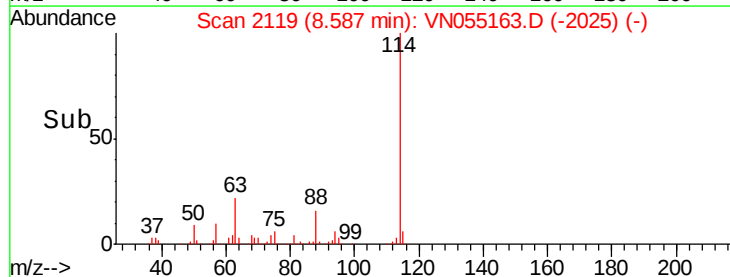
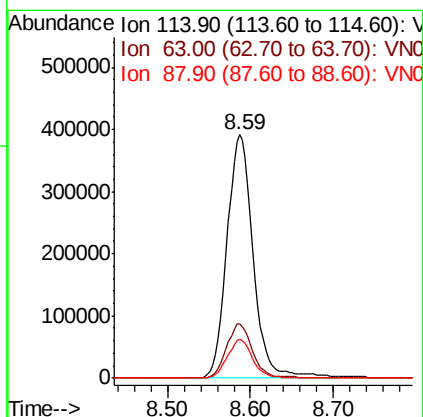
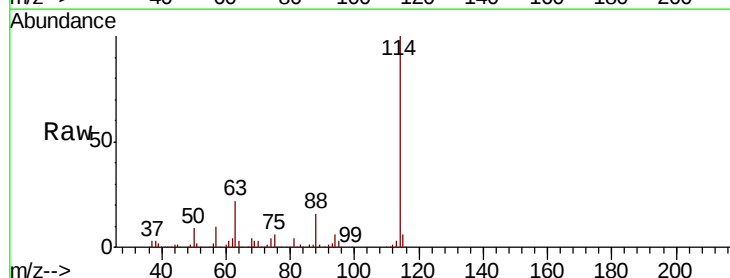
Instrument :
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 ClientSampleId :
 SU-02-041819-A

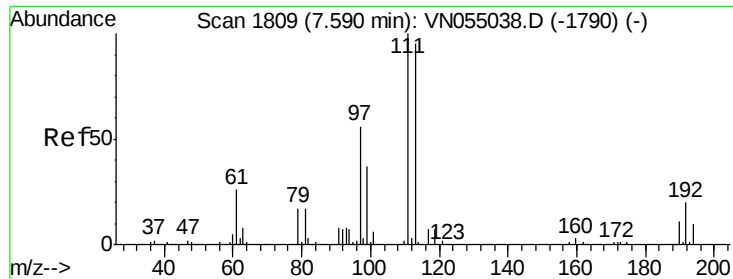
Tot Ion: 65 Resp: 344414
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 106.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055163.D
 Acq: 20 Apr 2019 1:54

Tgt Ion: 114 Resp: 862152
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 45.2
 88 15.9 0.0 31.8

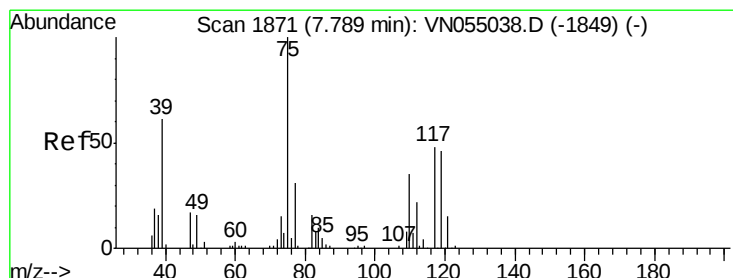
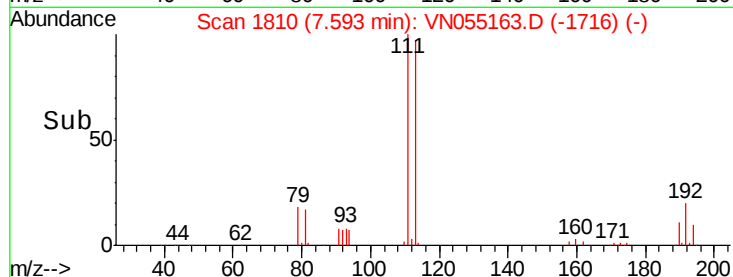
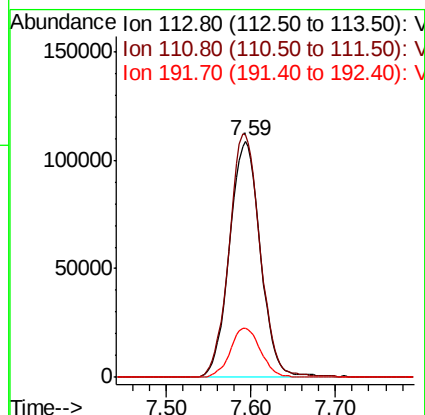
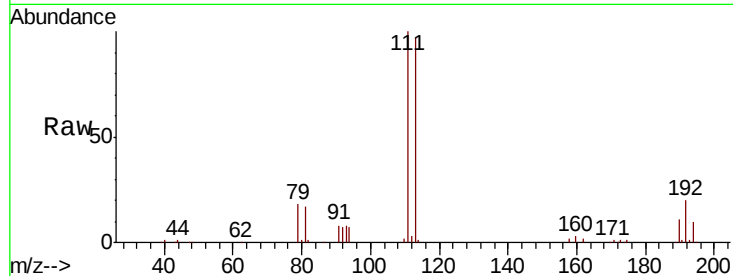




#35
 Dibromofluoromethane
 Concen: 48.167 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN055163.D
 Acq: 20 Apr 2019 1:54

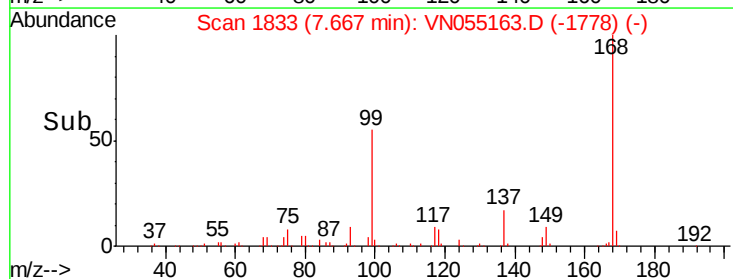
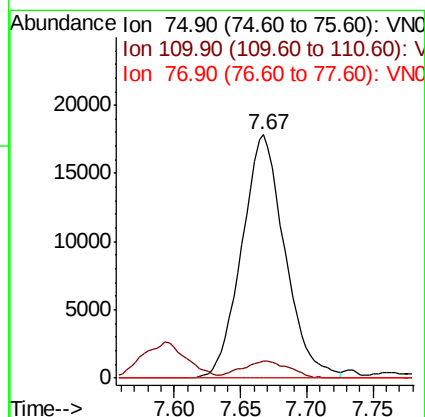
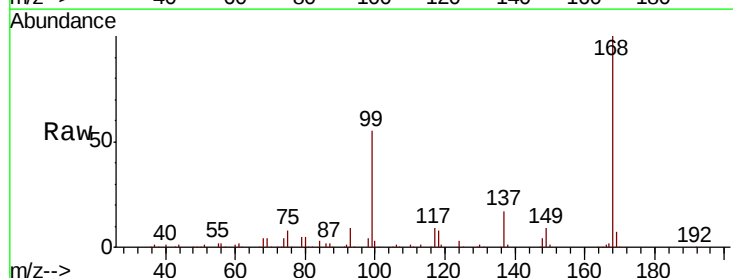
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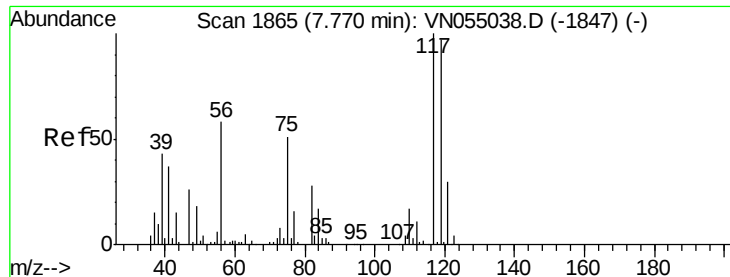
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.1	123.1
192	20.5	16.5	24.7



#36
 1,1-Dichloropropene
 Concen: 4.957 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN055163.D
 Acq: 20 Apr 2019 1:54

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.7	17.5	52.5#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 6.737 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.10 min

Lab File: VN055163.D

Acq: 20 Apr 2019 1:54

Instrument :

MSVOA_N

ClientSampleId :

SU-02-041819-A

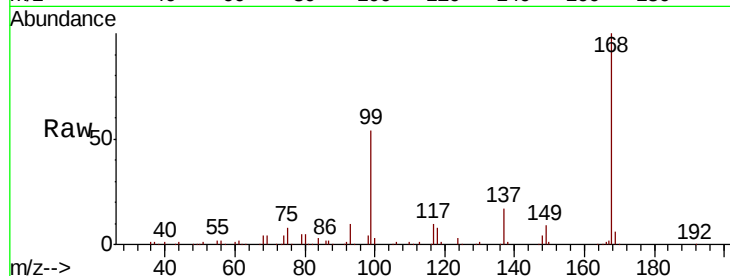
Tot Ion:117 Resp: 52097

Ion Ratio Lower Upper

117 100

119 5.5 76.3 114.5#

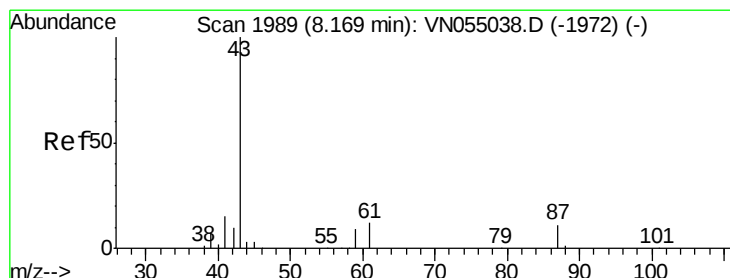
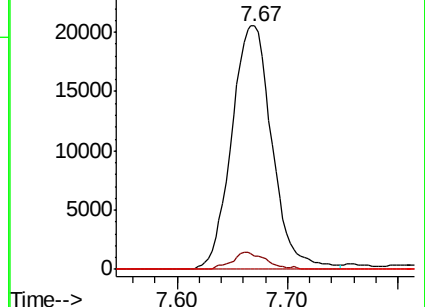
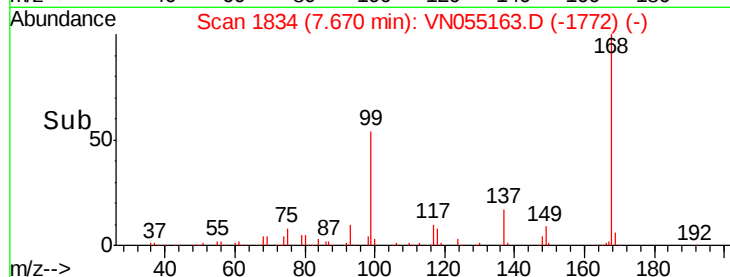
121 0.0 23.9 35.9#



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



#43

Isopropyl Acetate

Concen: 2.680 ug/l

RT: 8.19 min Scan# 1995

Delta R.T. 0.02 min

Lab File: VN055163.D

Acq: 20 Apr 2019 1:54

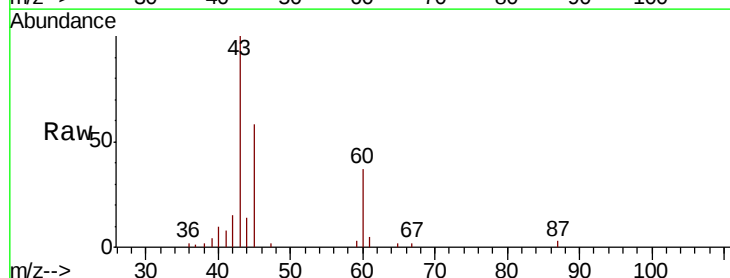
Tgt Ion: 43 Resp: 27327

Ion Ratio Lower Upper

43 100

61 0.0 14.3 21.5#

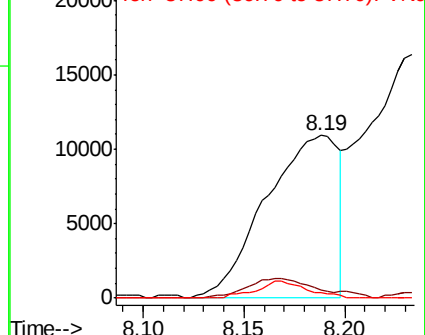
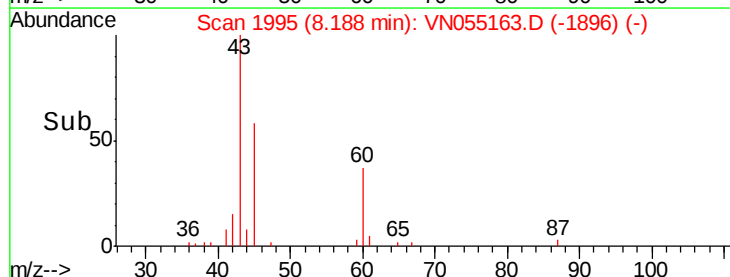
87 0.0 8.6 13.0#

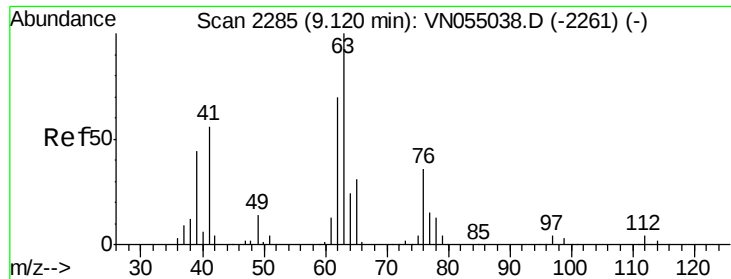


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

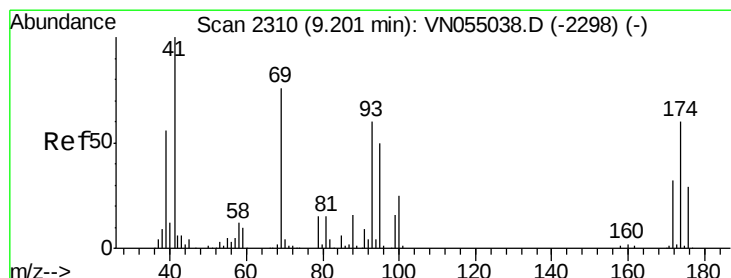
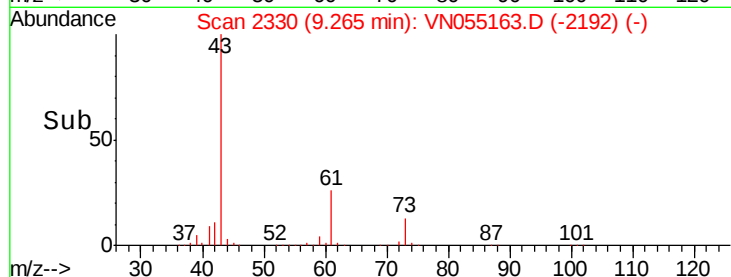
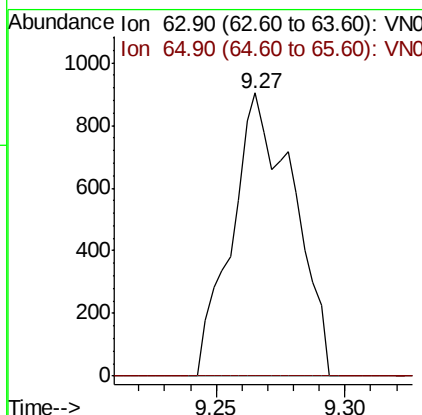
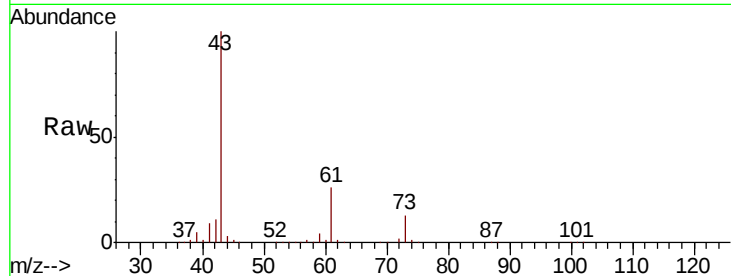




#45
 1,2-Dichloropropane
 Concen: 0.220 ug/l
 RT: 9.27 min Scan# 2330
 Delta R.T. 0.14 min
 Lab File: VN055163.D
 Acq: 20 Apr 2019 1:54

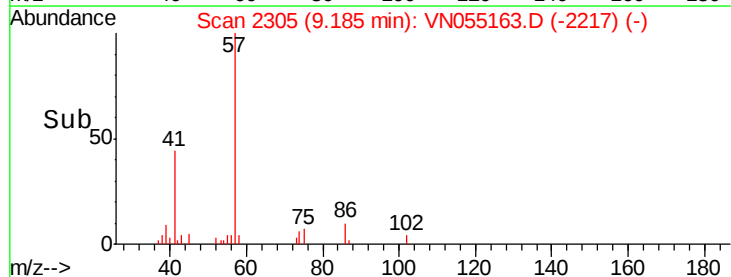
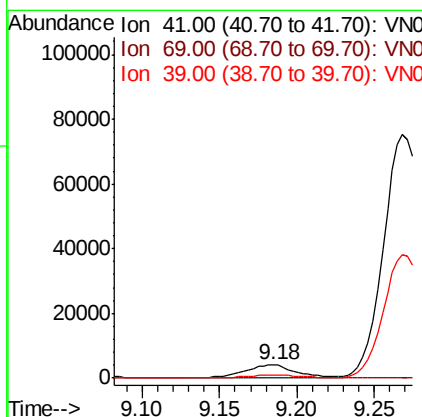
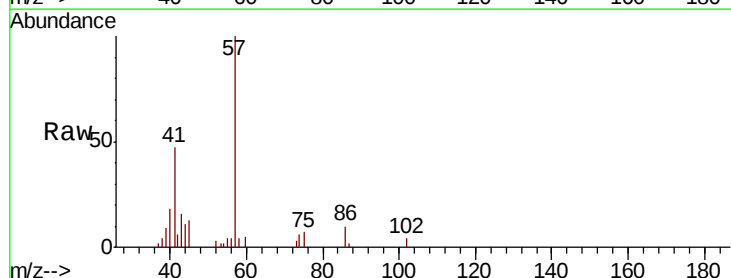
Instrument :
 MSVOA_N
 ClientSampleId :
 SU-02-041819-A

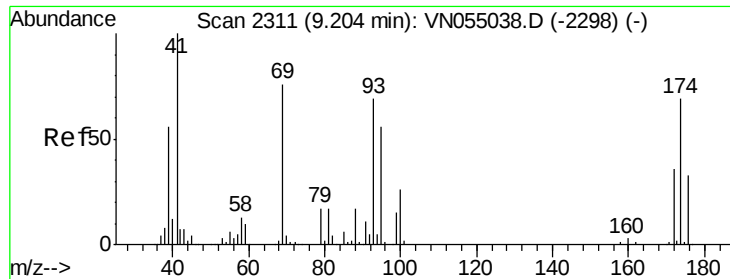
Tot Ion: 63 Resp: 1506
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.4 36.6#



#48
 Methyl methacrylate
 Concen: 1.660 ug/l
 RT: 9.18 min Scan# 2305
 Delta R.T. -0.02 min
 Lab File: VN055163.D
 Acq: 20 Apr 2019 1:54

Tgt Ion: 41 Resp: 8387
 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: 4.330 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.05 min

Lab File: VN055163.D

Acq: 20 Apr 2019 1:54

Instrument :

MSVOA_N

ClientSampleId :

SU-02-041819-A

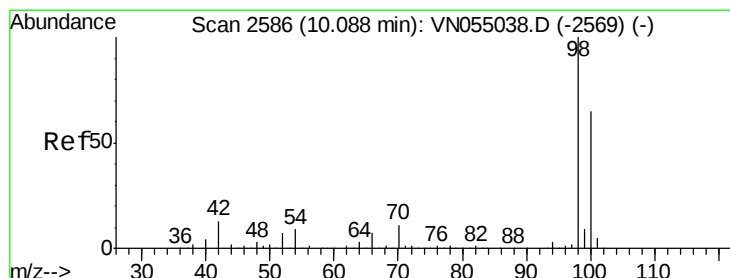
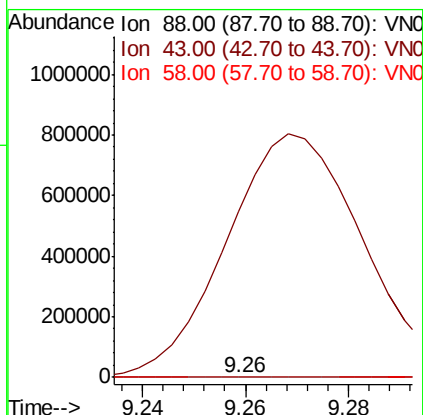
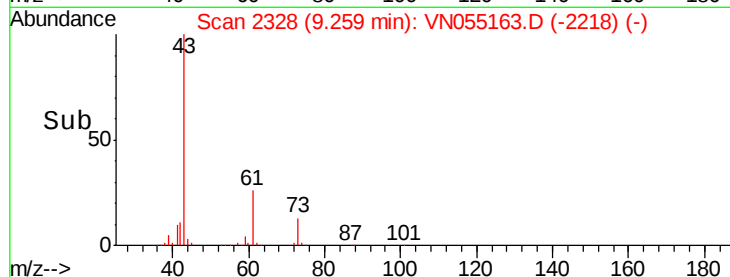
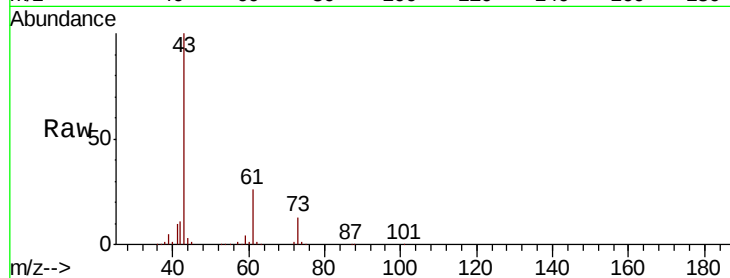
Tot Ion: 88 Resp: 205

Ion Ratio Lower Upper

88 100

43 742916.6 31.8 47.8#

58 3299.5 61.6 92.4#



#50

Toluene-d8

Concen: 49.663 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055163.D

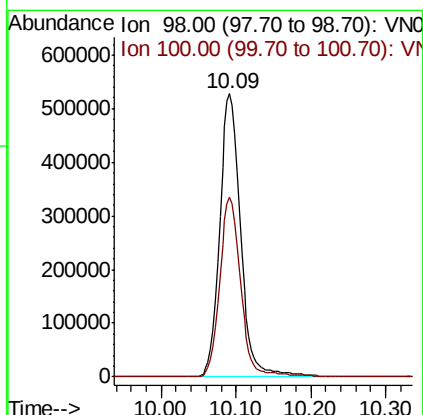
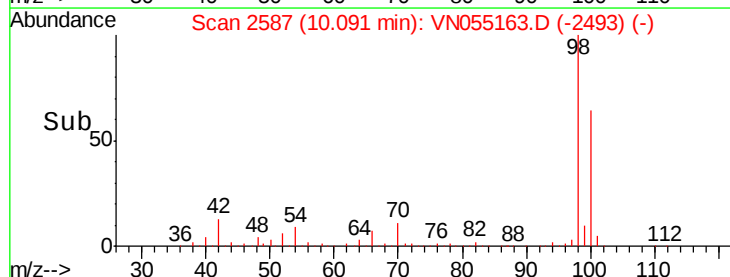
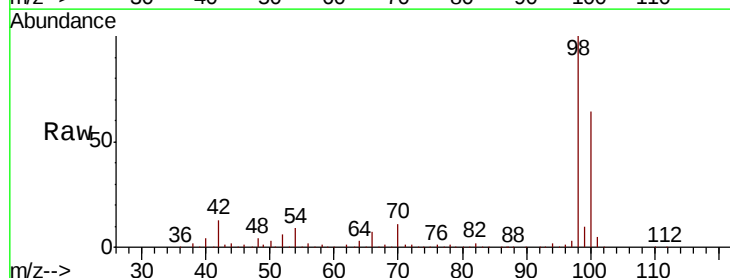
Acq: 20 Apr 2019 1:54

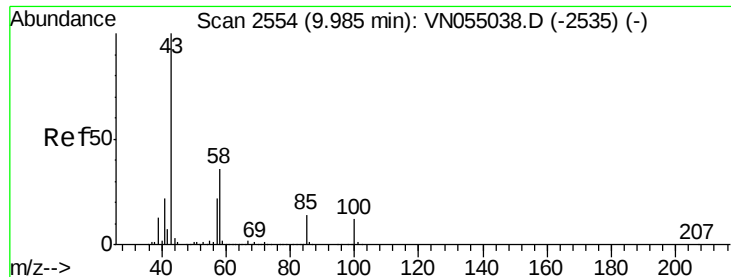
Tgt Ion: 98 Resp: 1024148

Ion Ratio Lower Upper

98 100

100 63.6 51.1 76.7





#51

4-Methyl-2-Pentanone

Concen: 0.722 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN055163.D

Acq: 20 Apr 2019 1:54

Instrument :

MSVOA_N

ClientSampleId :

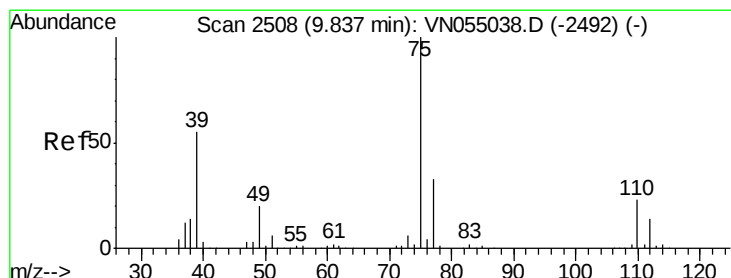
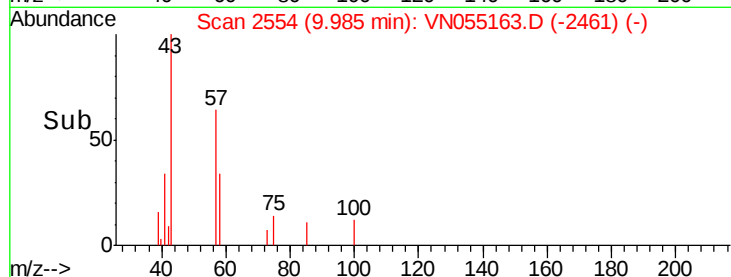
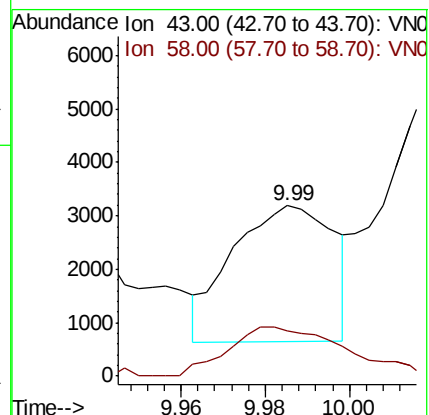
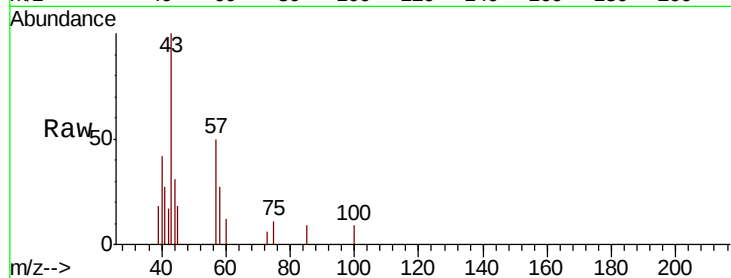
SU-02-041819-A

Tot Ion: 43 Resp: 4252

Ion Ratio Lower Upper

43 100

58 41.7 29.0 43.4



#54

cis-1,3-Dichloropropene

Concen: 6.533 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN055163.D

Acq: 20 Apr 2019 1:54

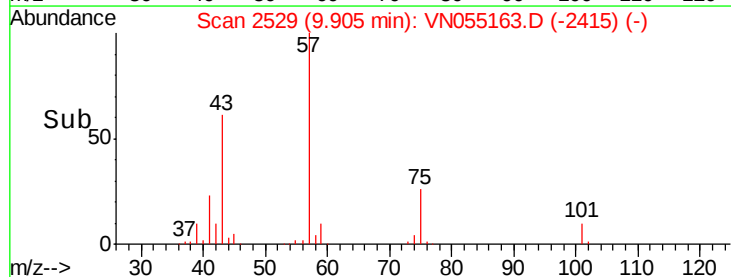
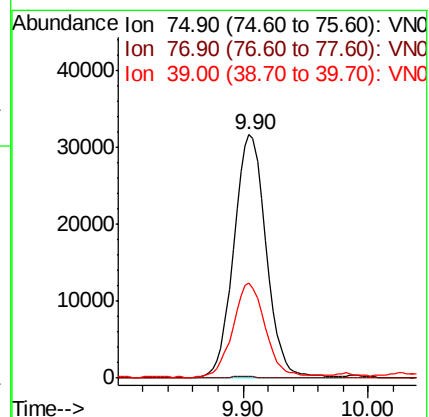
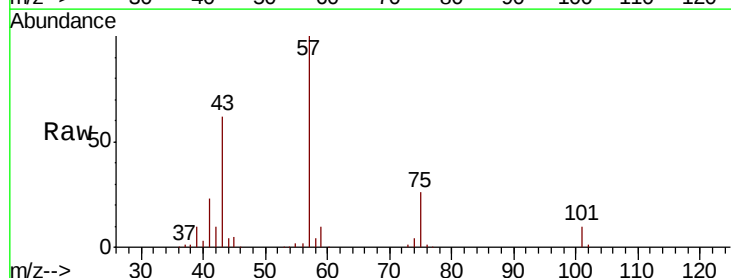
Tgt Ion: 75 Resp: 56807

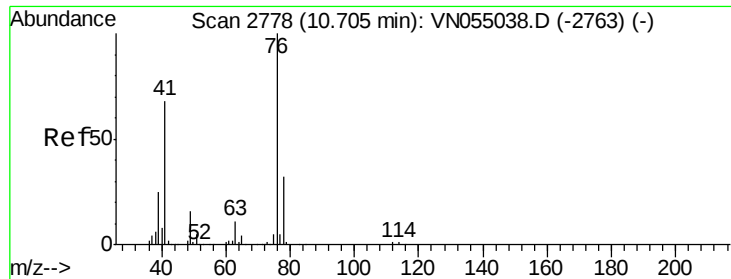
Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.6#

39 38.9 43.8 65.8#

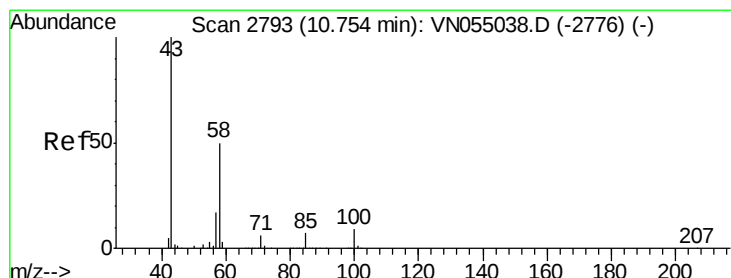
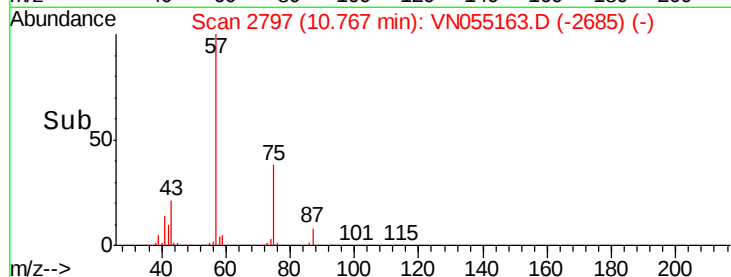
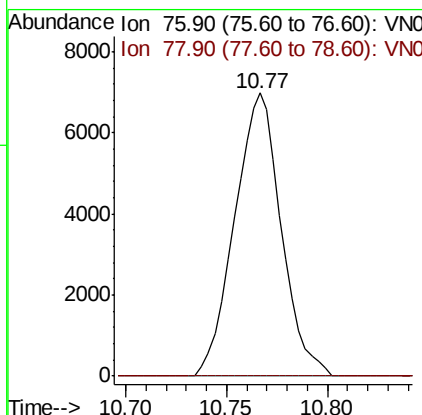
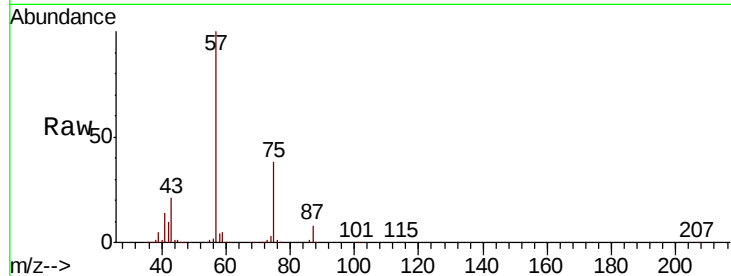




#57
 1,3-Dichloropropane
 Concen: 1.223 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN055163.D
 Acq: 20 Apr 2019 1:54

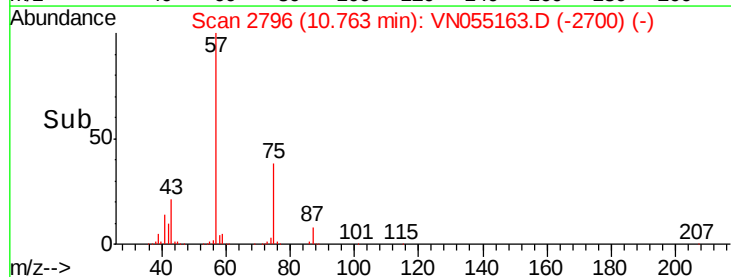
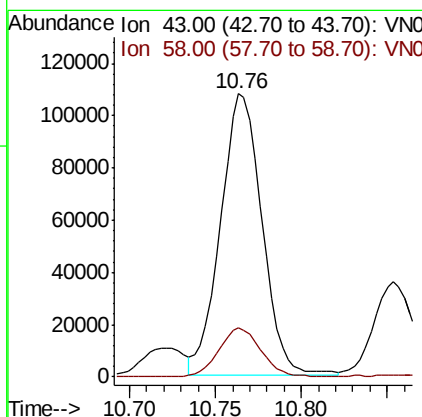
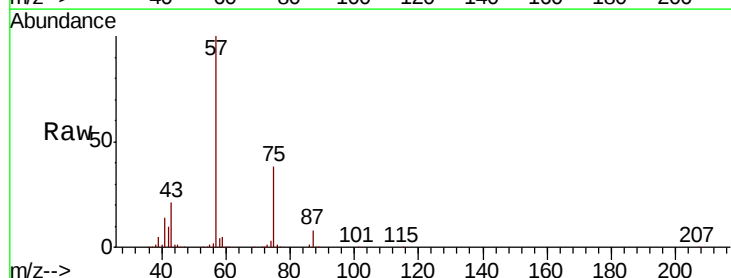
Instrument :
 MSVOA_N
 ClientSampleId :
 SU-02-041819-A

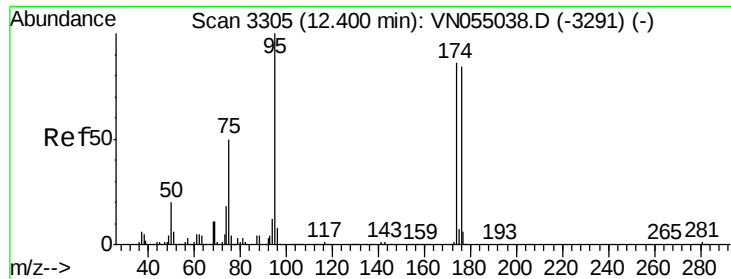
Tot Ion: 76 Resp: 11254
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 49.404 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN055163.D
 Acq: 20 Apr 2019 1:54

Tgt Ion: 43 Resp: 182772
 Ion Ratio Lower Upper
 43 100
 58 17.6 25.1 75.2#





#62

4-Bromofluorobenzene

Concen: 42.439 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055163.D

Acq: 20 Apr 2019 1:54

Instrument :

MSVOA_N

ClientSampleId :

SU-02-041819-A

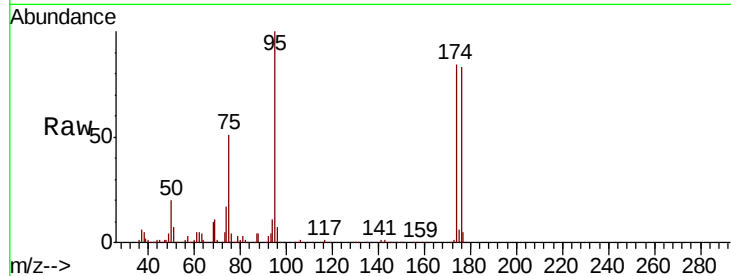
Tot Ion: 95 Resp: 284520

Ion Ratio Lower Upper

95 100

174 84.7 0.0 174.4

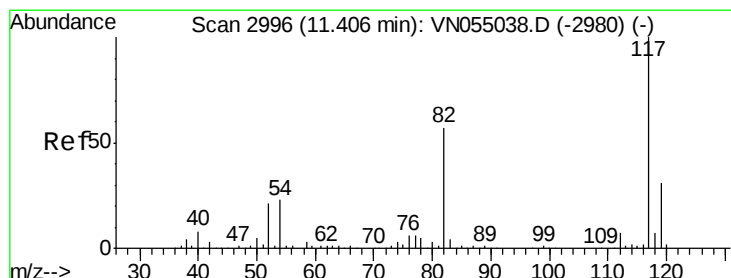
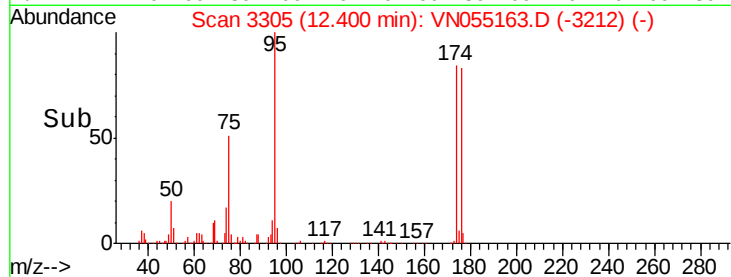
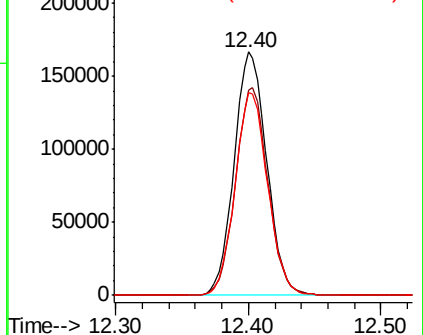
176 83.1 0.0 166.8



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN055163.D

Acq: 20 Apr 2019 1:54

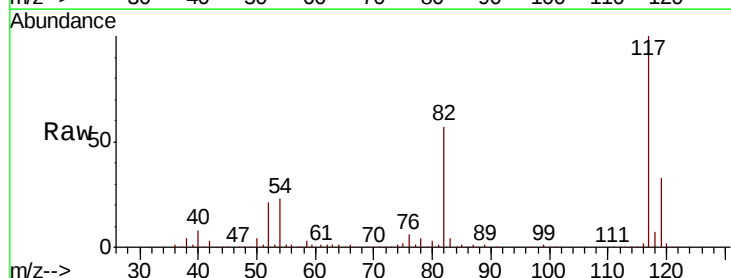
Tgt Ion: 117 Resp: 697518

Ion Ratio Lower Upper

117 100

82 57.2 44.6 66.8

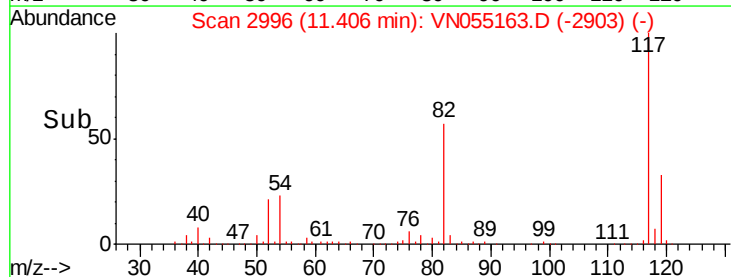
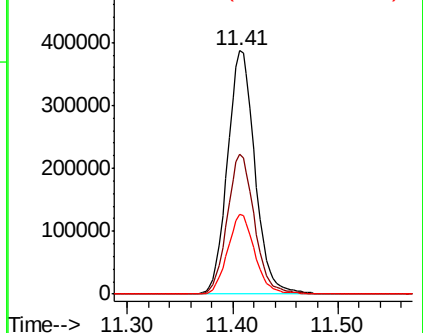
119 32.6 25.5 38.3

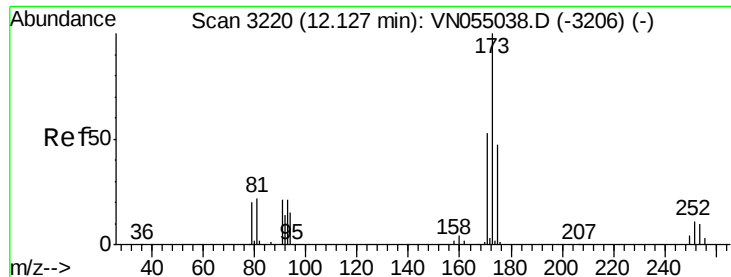


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 0.868 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055163.D

Acq: 20 Apr 2019 1:54

Instrument :

MSVOA_N

ClientSampleId :

SU-02-041819-A

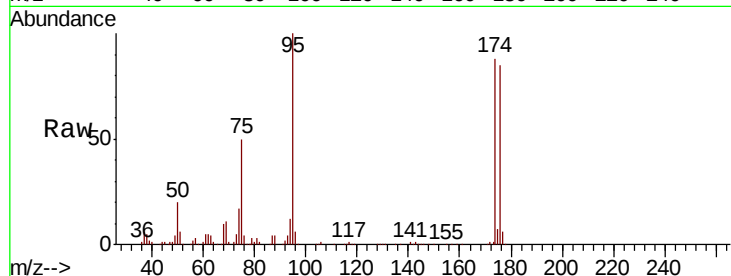
Tot Ion:173 Resp: 2569

Ion Ratio Lower Upper

173 100

175 626.7 24.3 73.0#

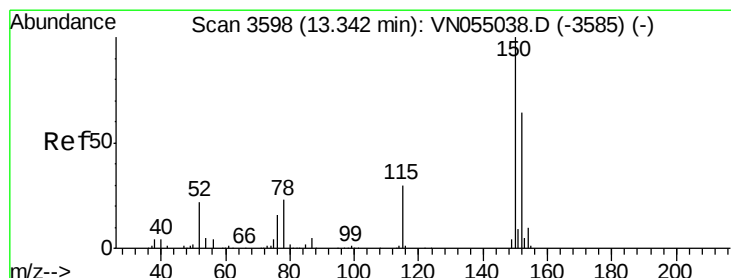
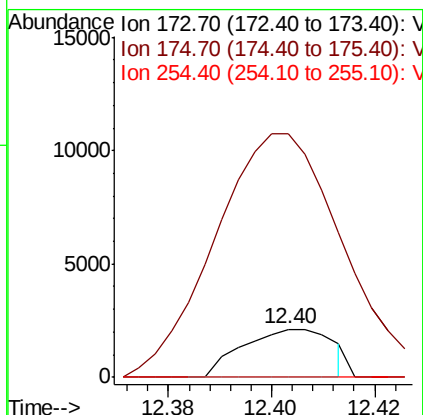
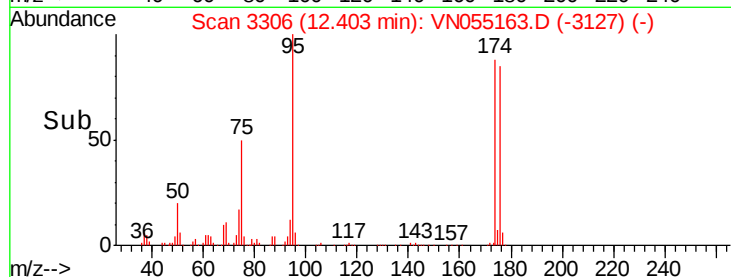
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN055163.D

Acq: 20 Apr 2019 1:54

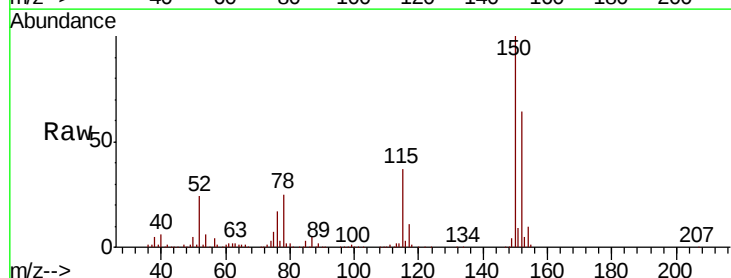
Tgt Ion:152 Resp: 203569

Ion Ratio Lower Upper

152 100

115 57.6 28.5 85.6

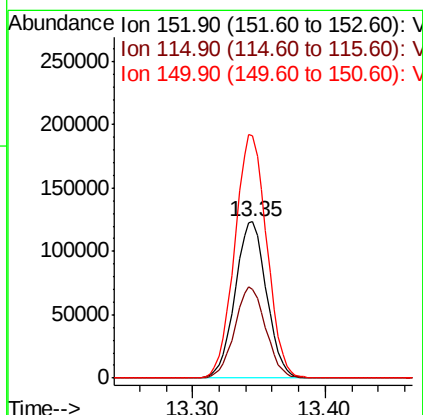
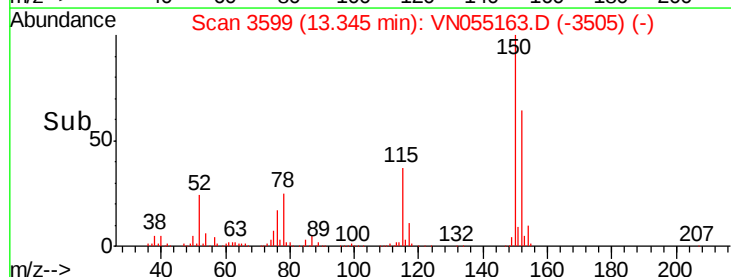
150 158.4 0.0 347.2

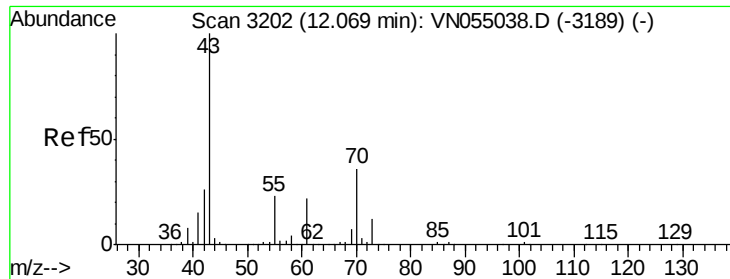


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 3.493 ug/l

RT: 11.88 min Scan# 3143

Delta R.T. -0.19 min

Lab File: VN055163.D

Acq: 20 Apr 2019 1:54

Instrument :

MSVOA_N

ClientSampleId :

SU-02-041819-A

Tot Ion: 43 Resp: 17764

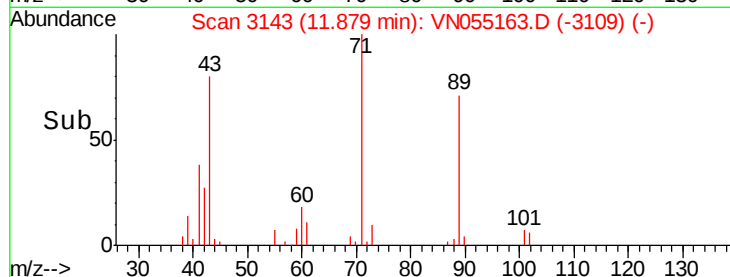
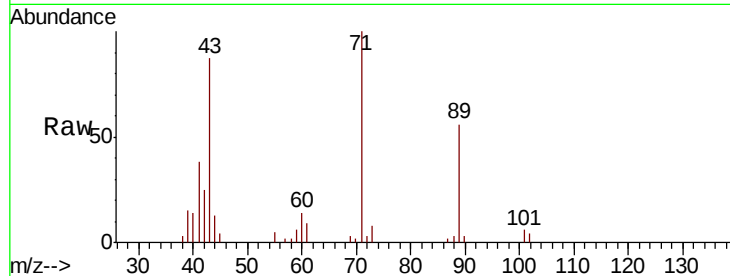
Ion Ratio Lower Upper

43 100

70 1.0 29.4 44.0#

55 4.6 19.0 28.4#

61 9.8 17.7 26.5#

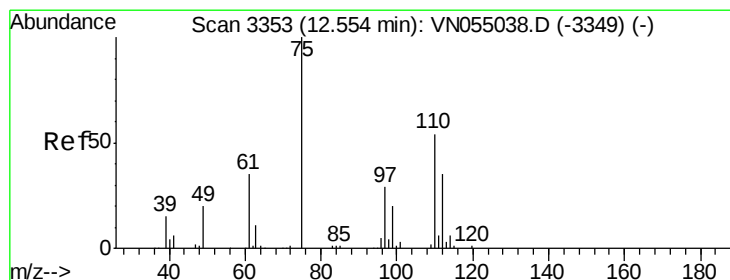
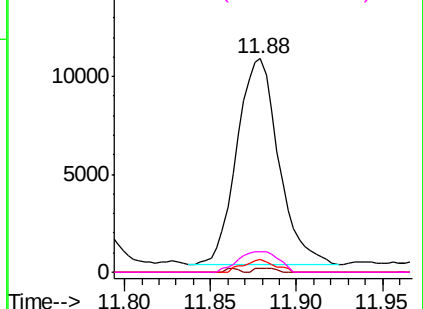


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 39.116 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055163.D

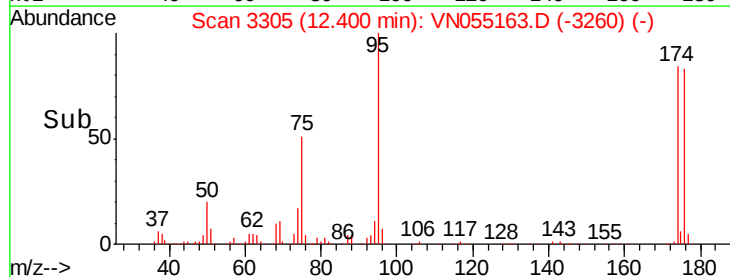
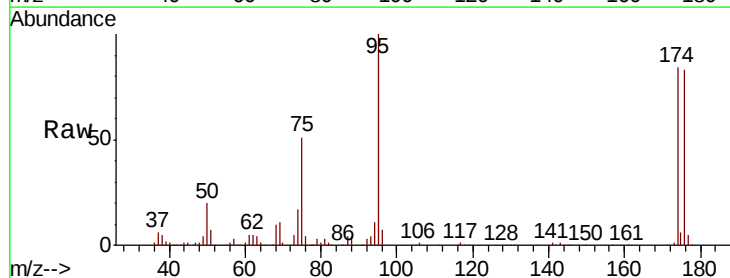
Acq: 20 Apr 2019 1:54

Tgt Ion: 75 Resp: 143189

Ion Ratio Lower Upper

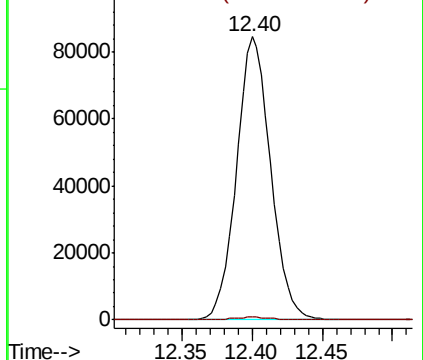
75 100

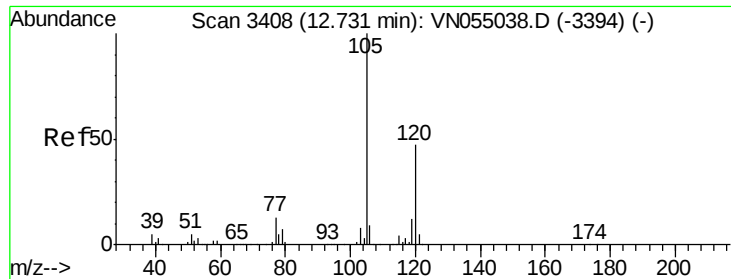
77 1.1 0.0 0.0#



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: 0.220 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055163.D

Acq: 20 Apr 2019 1:54

Instrument :

MSVOA_N

ClientSampleId :

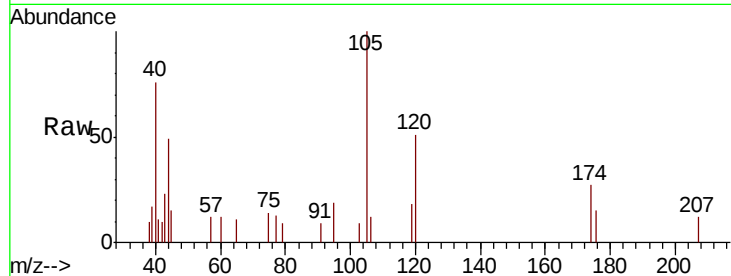
SU-02-041819-A

Tot Ion:105 Resp: 3201

Ion Ratio Lower Upper

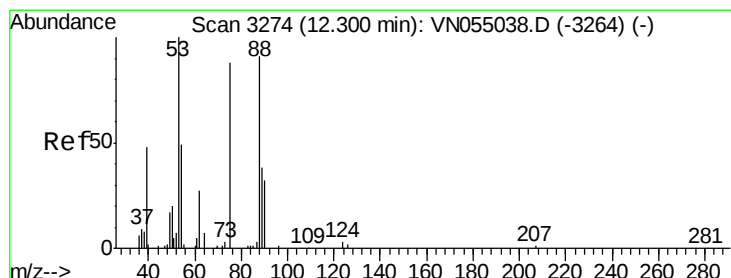
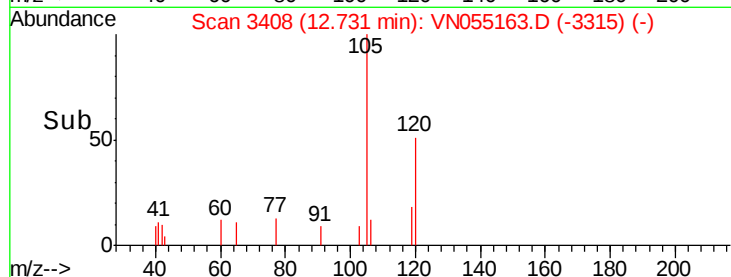
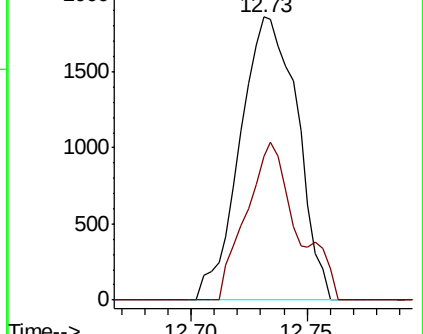
105 100

120 49.5 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 156.417 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055163.D

Acq: 20 Apr 2019 1:54

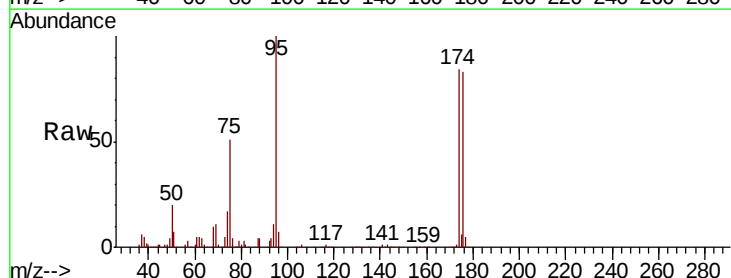
Tgt Ion: 75 Resp: 143189

Ion Ratio Lower Upper

75 100

53 0.0 96.3 144.5#

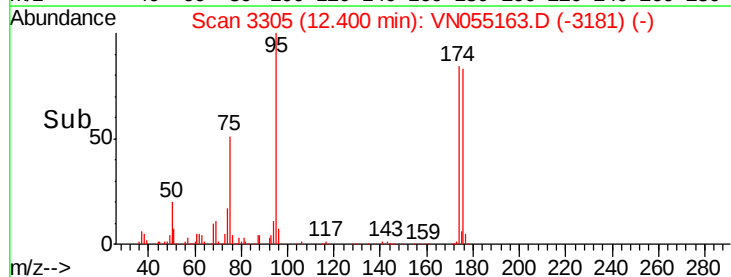
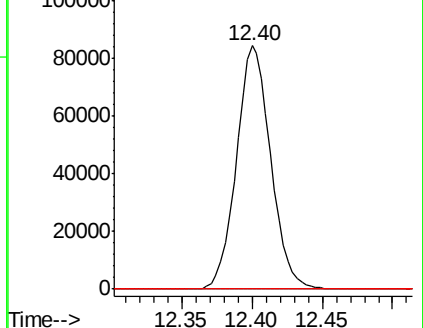
89 0.0 38.6 57.8#

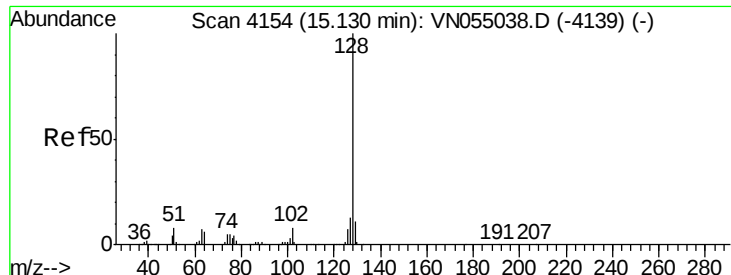


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#95

Naphthalene

Concen: 3.163 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN055163.D

Acq: 20 Apr 2019 1:54

Instrument :

MSVOA_N

ClientSampleId :

SU-02-041819-A

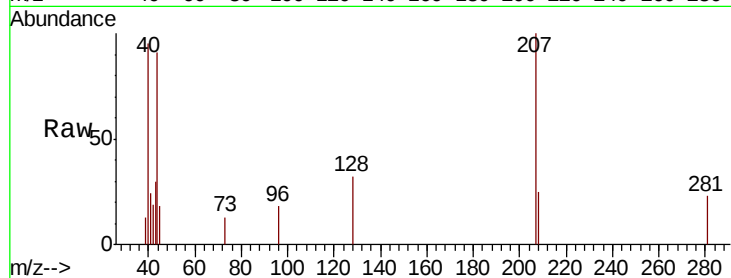
Tot Ion:128 Resp: 645

Ion Ratio Lower Upper

128 100

127 0.0 10.1 15.1#

129 0.0 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

