

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021119\
 Data File : VN053700.D
 Acq On : 11 Feb 2019 13:13
 Operator : JC/SP
 Sample : K1356-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SU-03-020819-A

Quant Time: Feb 11 22:08:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	781005	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1301172	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1189329	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	504749	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	416390	53.15	ug/l	0.00
Spiked Amount			Recovery	=	106.30%	
35) Dibromofluoromethane	7.59	113	409386	49.79	ug/l	0.00
Spiked Amount			Recovery	=	99.58%	
50) Toluene-d8	10.09	98	1570534	50.87	ug/l	0.00
Spiked Amount			Recovery	=	101.74%	
62) 4-Bromofluorobenzene	12.40	95	523740	50.87	ug/l	0.00
Spiked Amount			Recovery	=	101.74%	

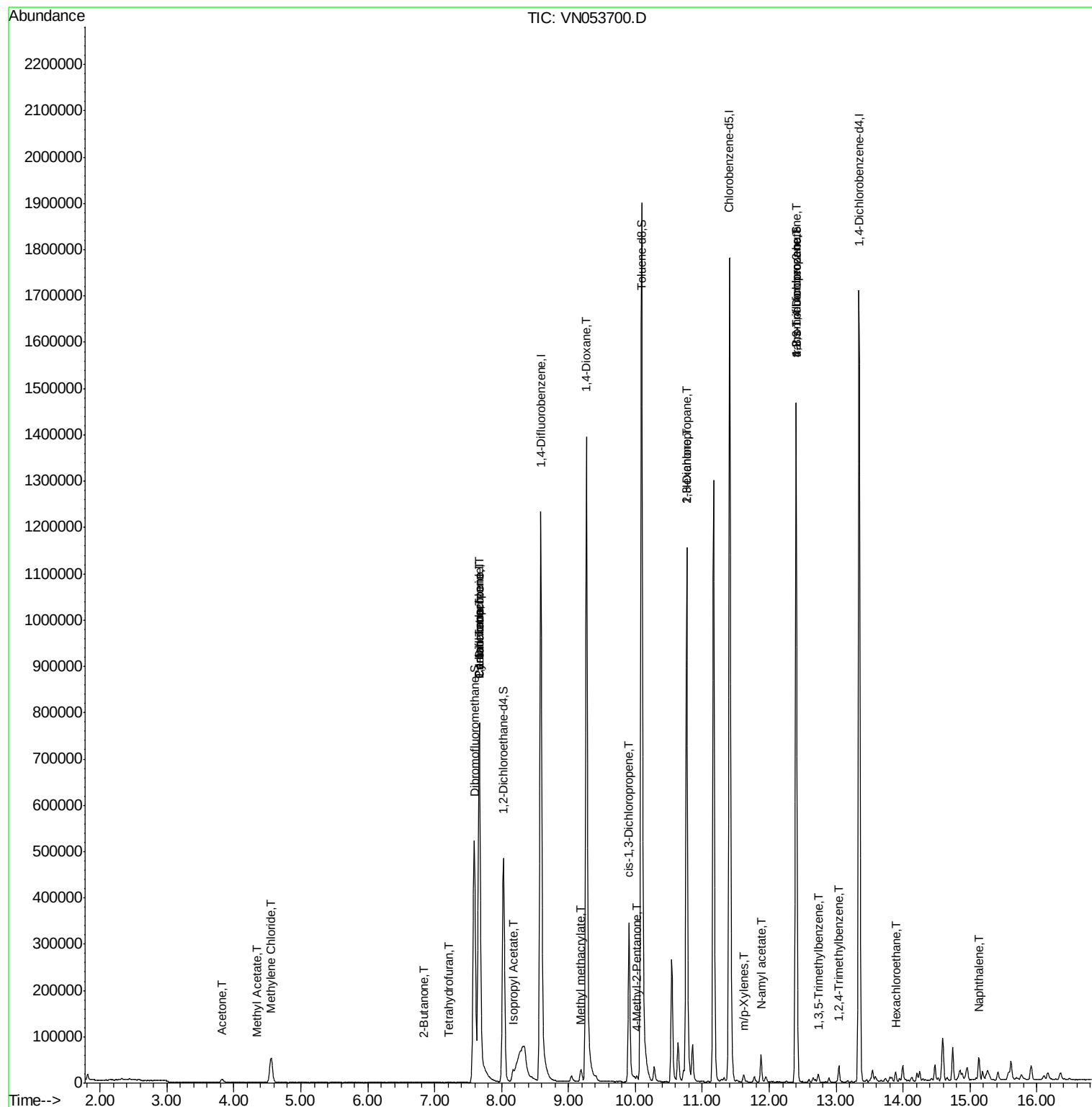
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.83	43	13527	6.731	ug/l	90
18) Methyl Acetate	4.35	43	2627	0.441	ug/l #	72
20) Methylene Chloride	4.55	84	42869	5.084	ug/l	96
25) 2-Butanone	6.83	43	739	0.258	ug/l #	47
29) Tetrahydrofuran	7.22	42	968	0.526	ug/l #	41
31) Cyclohexane	7.67	56	11295	0.685	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	45982	3.920	ug/l #	49
38) Carbon Tetrachloride	7.67	117	63414	5.367	ug/l #	16
43) Isopropyl Acetate	8.17	43	30887	2.441	ug/l #	83
48) Methyl methacrylate	9.18	41	10035	1.662	ug/l #	12
49) 1,4-Dioxane	9.27	88	29	39.417	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	9586	1.542	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	74184	5.392	ug/l #	62
57) 1,3-Dichloropropane	10.76	76	12813	0.969	ug/l #	43
59) 2-Hexanone	10.77	43	178835	42.374	ug/l #	50
68) m/p-Xylenes	11.62	106	5951	0.376	ug/l	92
74) N-amyl acetate	11.88	43	18161	2.128	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	241881	37.309	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7757	0.264	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	241881	104.910	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	20714	0.691	ug/l	99
90) Hexachloroethane	13.89	117	1658	0.325	ug/l #	3
95) Naphthalene	15.13	128	45347	3.710	ug/l	99

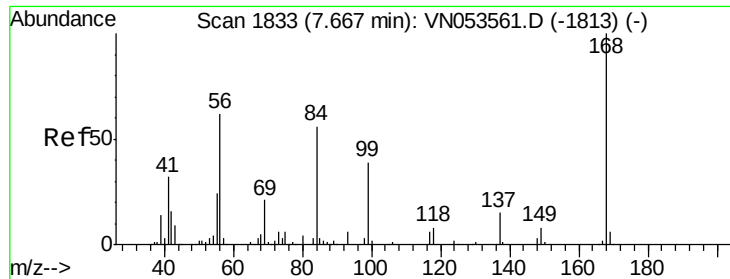
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 01 09:11:52 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053700.D

Acq: 11 Feb 2019 13:13

Instrument :

MSVOA_N

ClientSampleId :

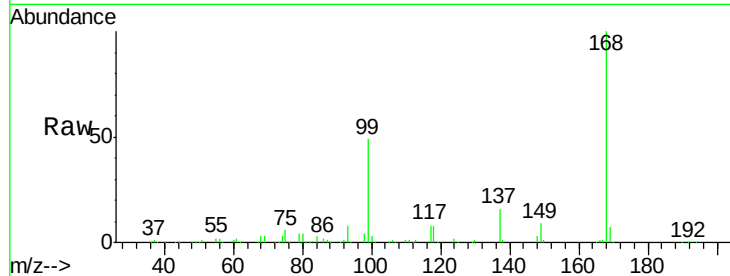
SU-03-020819-A

Tot Ion:168 Resp: 781005

Ion Ratio Lower Upper

168 100

99 49.2 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

300000

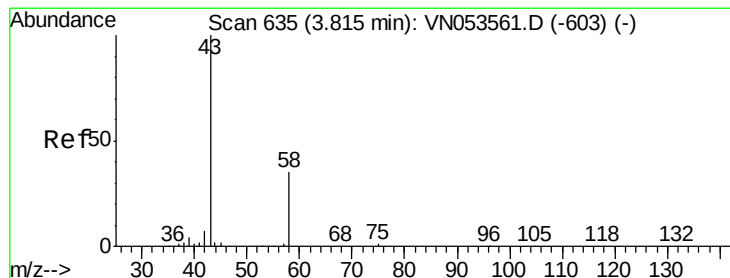
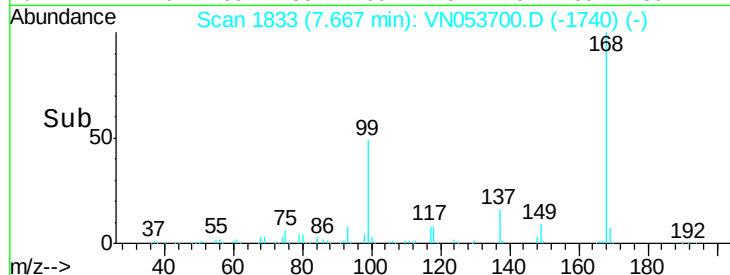
200000

100000

0

Time-->

7.50 7.60 7.70 7.80



#16

Acetone

Concen: 6.731 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN053700.D

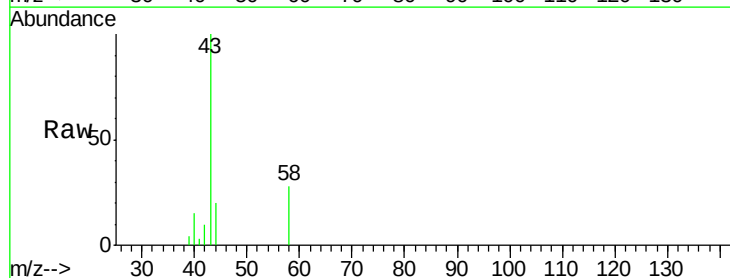
Acq: 11 Feb 2019 13:13

Tgt Ion: 43 Resp: 13527

Ion Ratio Lower Upper

43 100

58 28.3 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.83

5000

4000

3000

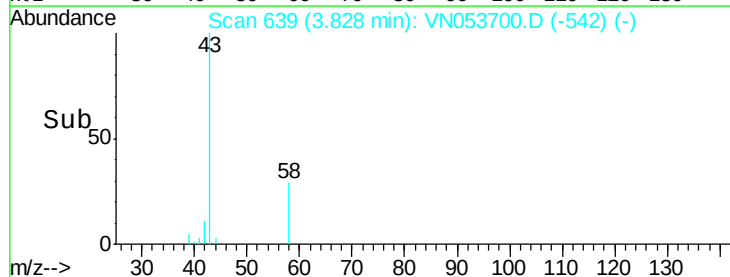
2000

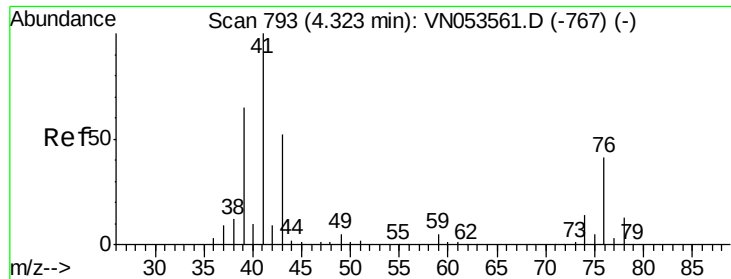
1000

0

Time-->

3.75 3.80 3.85 3.90





#18

Methyl Acetate

Concen: 0.441 ug/l

RT: 4.35 min Scan# 800

Delta R.T. 0.02 min

Lab File: VN053700.D

Acq: 11 Feb 2019 13:13

Instrument :

MSVOA_N

ClientSampleId :

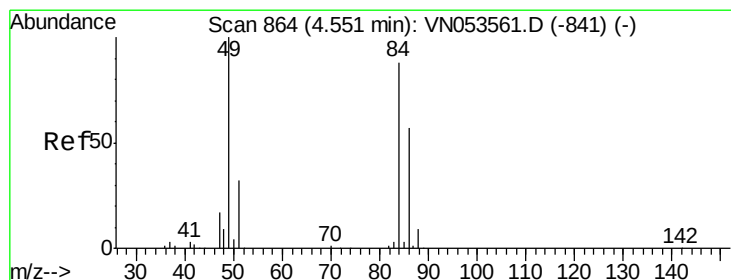
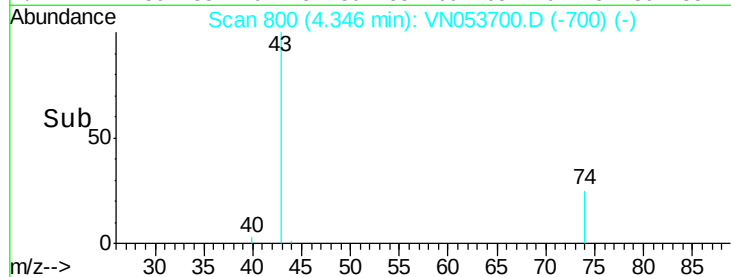
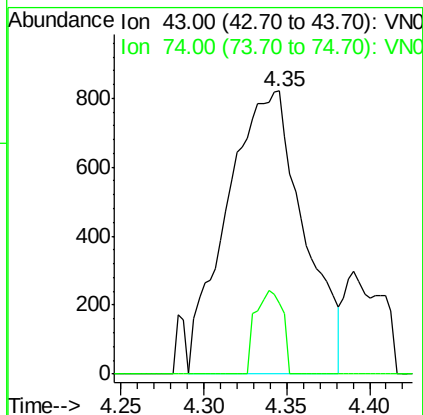
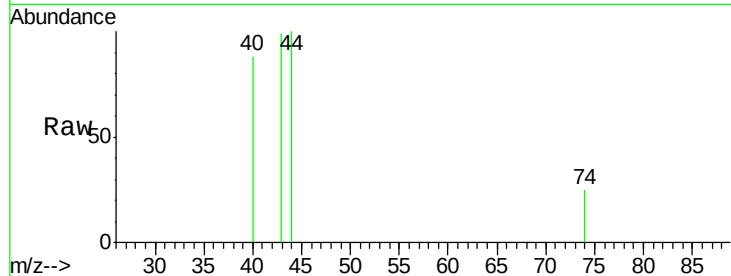
SU-03-020819-A

Tot Ion: 43 Resp: 2627

Ion Ratio Lower Upper

43 100

74 10.5 19.4 29.2#



#20

Methylene Chloride

Concen: 5.084 ug/l

RT: 4.55 min Scan# 864

Delta R.T. -0.00 min

Lab File: VN053700.D

Acq: 11 Feb 2019 13:13

Tgt Ion: 84 Resp: 42869

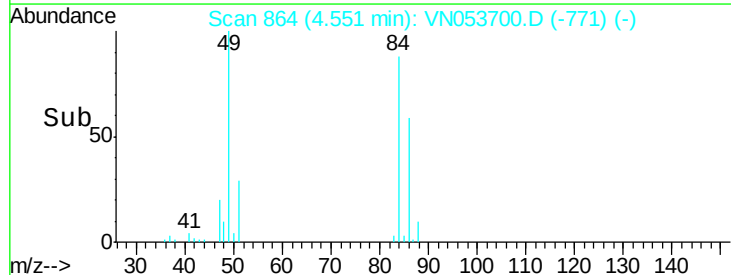
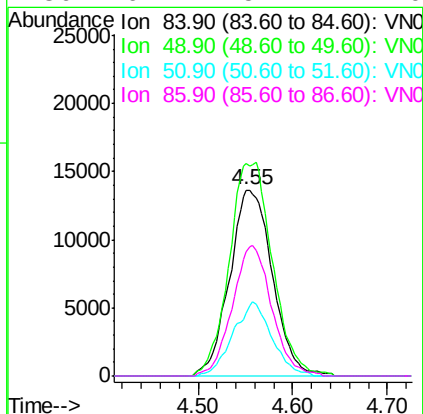
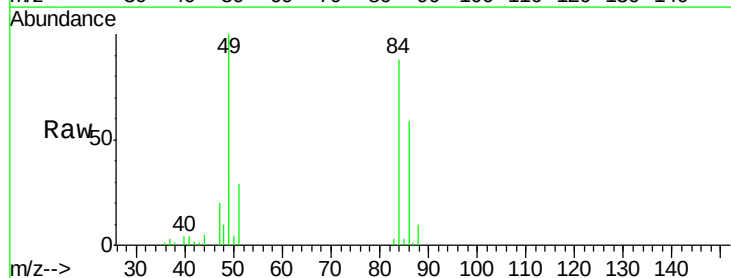
Ion Ratio Lower Upper

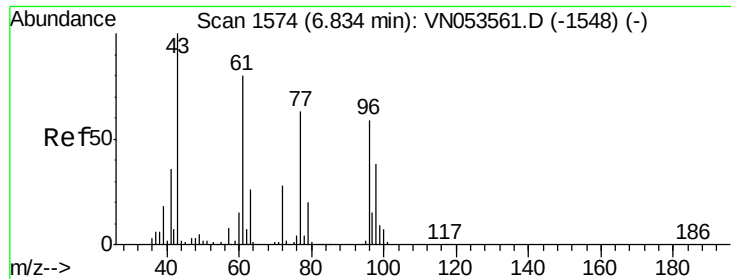
84 100

49 114.1 94.3 141.5

51 33.6 29.4 44.2

86 67.2 51.4 77.0

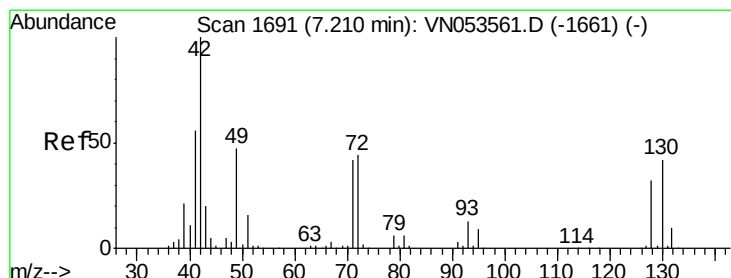
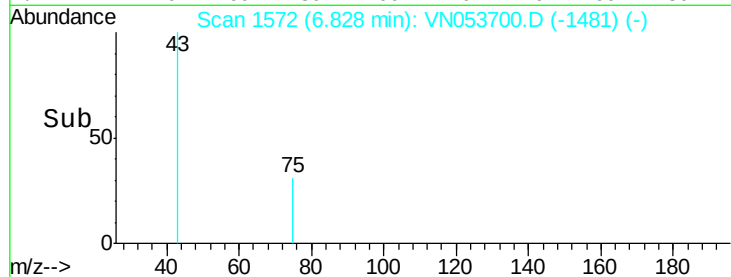
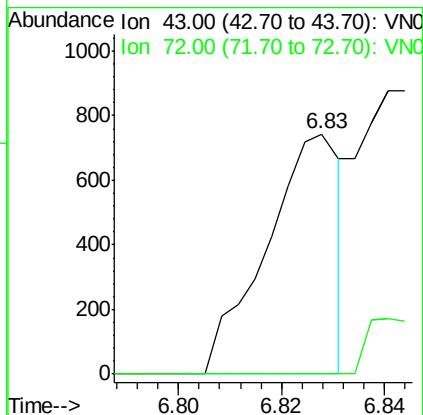
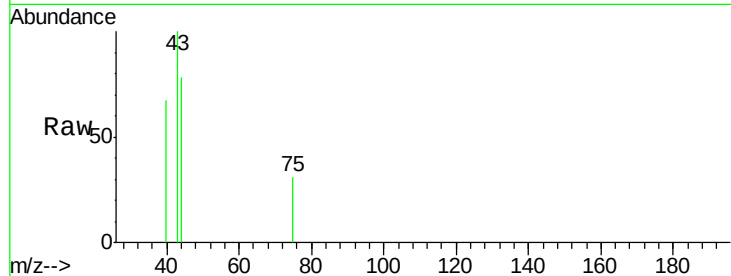




#25
2-Butanone
Concen: 0.258 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. -0.01 min
Lab File: VN053700.D
Acq: 11 Feb 2019 13:13

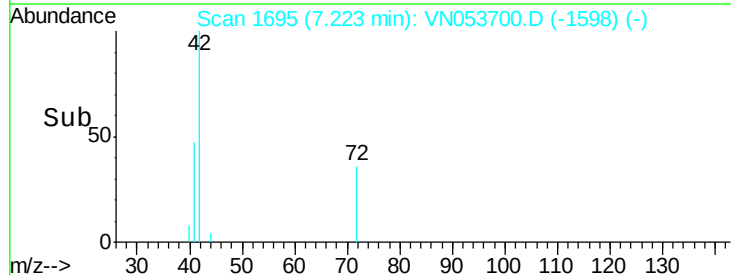
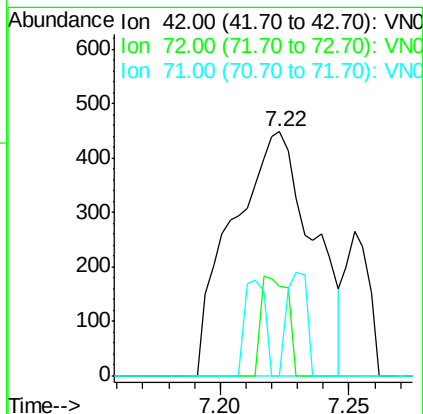
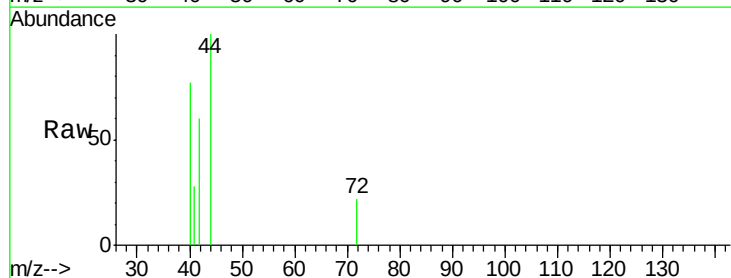
Instrument :
MSVOA_N
ClientSampleId :
SU-03-020819-A

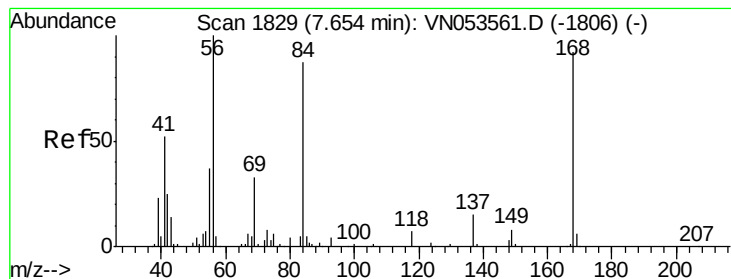
Tot Ion: 43 Resp: 739
Ion Ratio Lower Upper
43 100
72 0.0 22.0 33.0#



#29
Tetrahydrofuran
Concen: 0.526 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.01 min
Lab File: VN053700.D
Acq: 11 Feb 2019 13:13

Tgt Ion: 42 Resp: 968
Ion Ratio Lower Upper
42 100
72 0.0 35.2 52.8#
71 10.6 33.0 49.4#





#31

Cyclohexane

Concen: 0.685 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN053700.D

Acq: 11 Feb 2019 13:13

Instrument :

MSVOA_N

ClientSampleId :

SU-03-020819-A

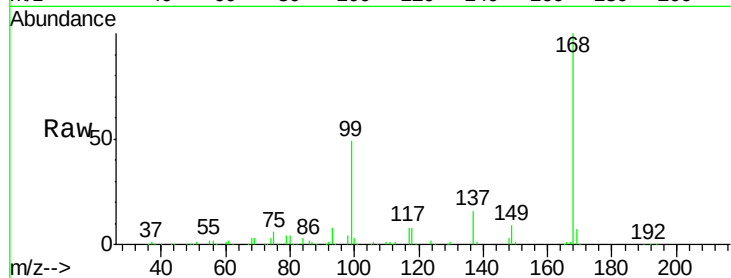
Tot Ion: 56 Resp: 11295

Ion Ratio Lower Upper

56 100

69 178.6 26.4 39.6#

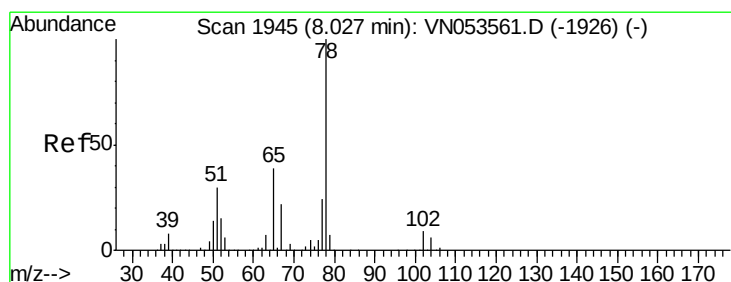
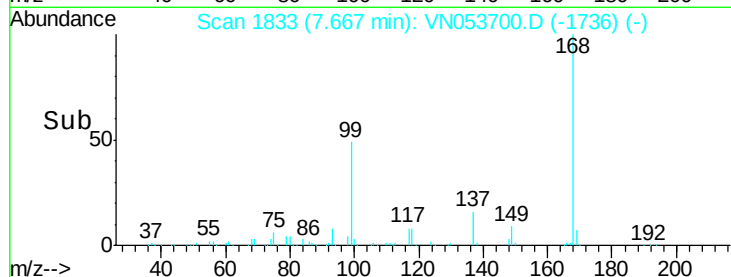
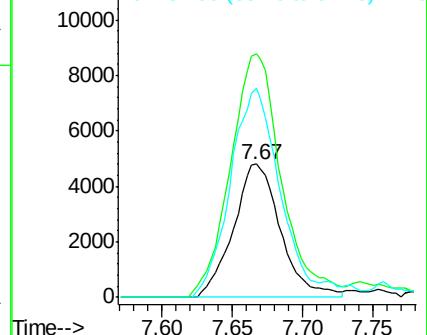
84 157.1 67.9 101.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 53.145 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053700.D

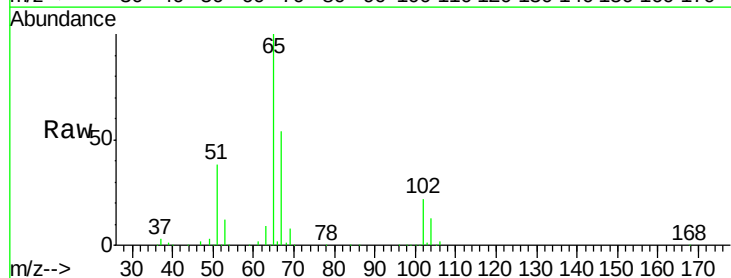
Acq: 11 Feb 2019 13:13

Tgt Ion: 65 Resp: 416390

Ion Ratio Lower Upper

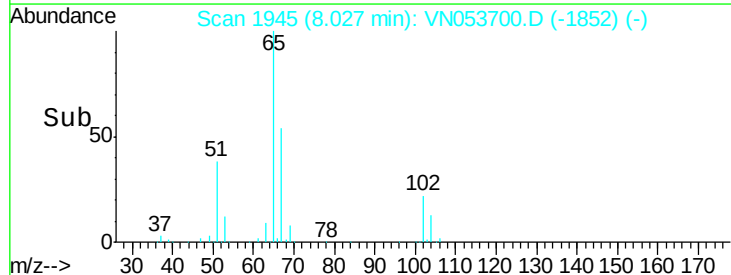
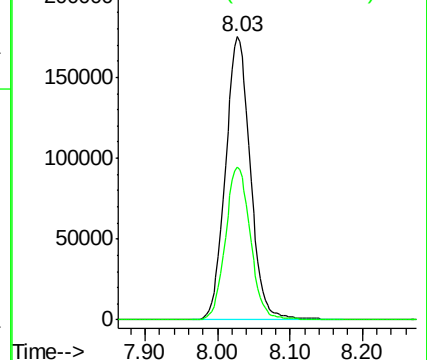
65 100

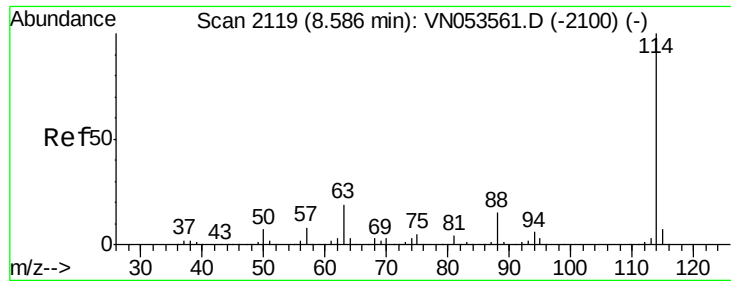
67 54.5 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053700.D

Acq: 11 Feb 2019 13:13

Instrument :

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ClientSampleId :

SU-03-020819-A

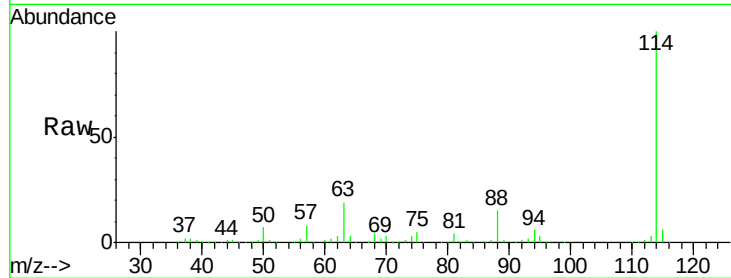
Tot Ion:114 Resp: 1301172

Ion Ratio Lower Upper

114 100

63 19.2 0.0 38.6

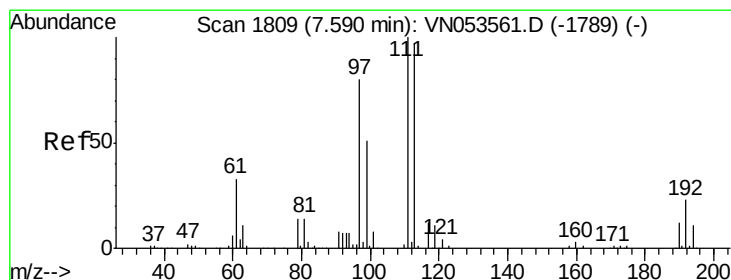
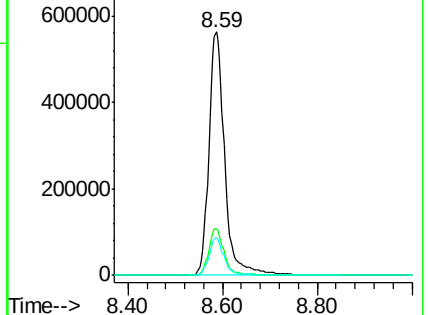
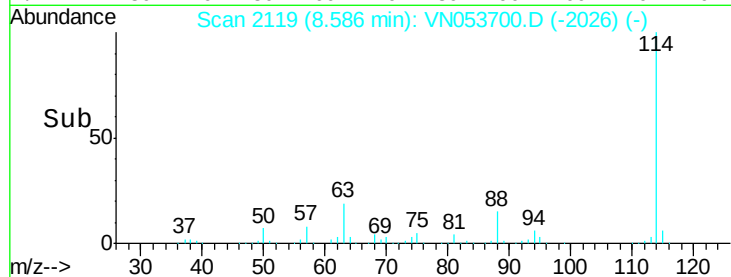
88 15.2 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 49.793 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053700.D

Acq: 11 Feb 2019 13:13

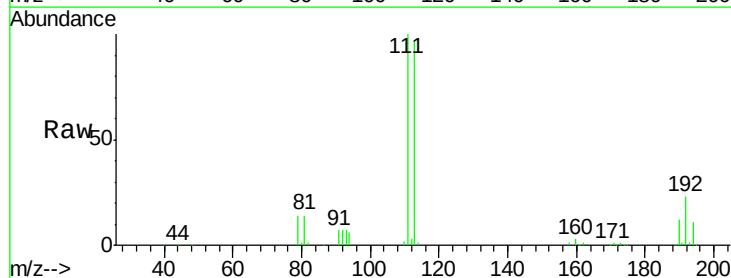
Tgt Ion:113 Resp: 409386

Ion Ratio Lower Upper

113 100

111 103.3 81.1 121.7

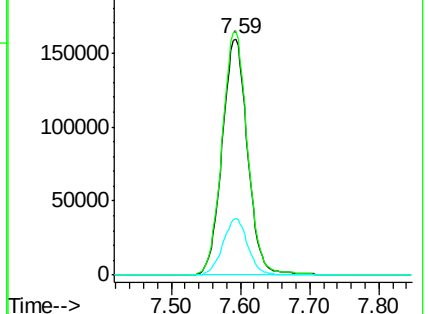
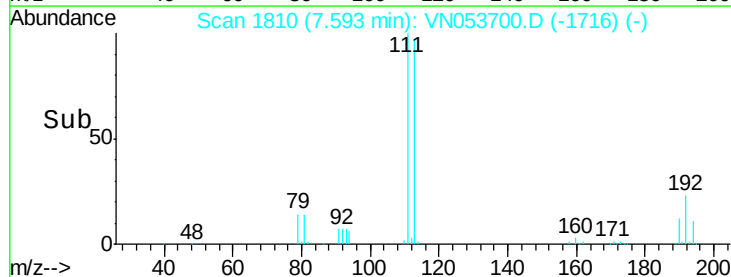
192 23.4 18.2 27.2

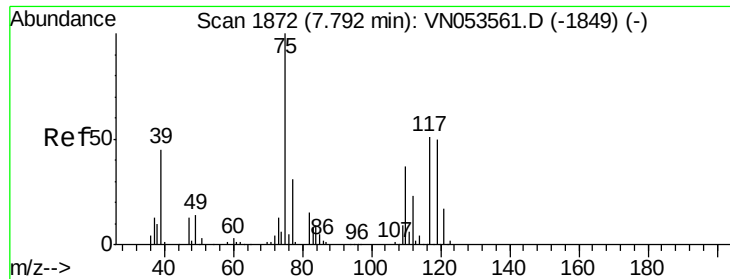


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

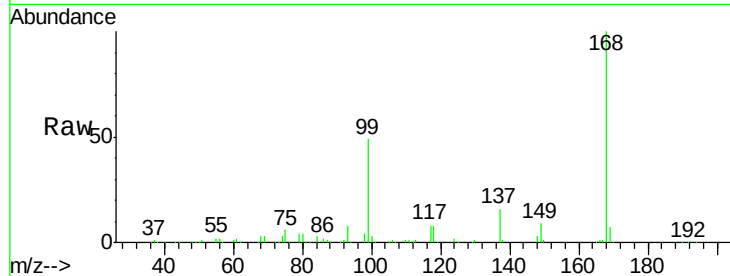




#36
 1,1-Dichloropropene
 Concen: 3.920 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN053700.D
 Acq: 11 Feb 2019 13:13

Instrument :
 MSVOA_N
 ClientSampleId :
 SU-03-020819-A

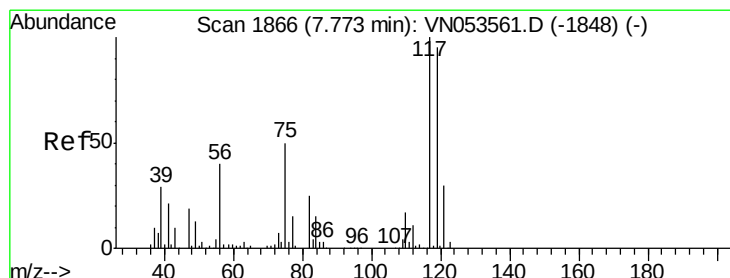
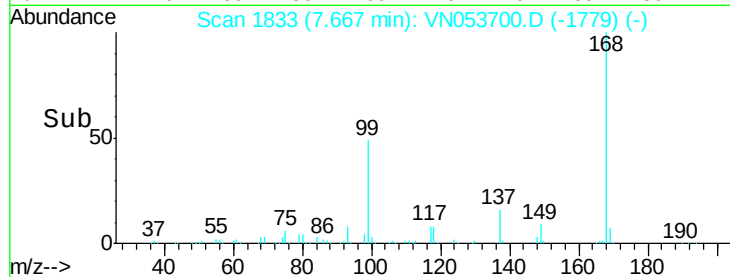
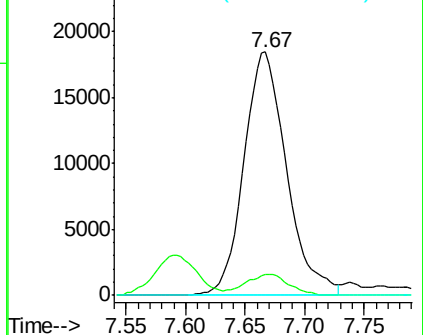
Tot Ion	75	Resp	45982
Ion Ratio	Lower	Upper	
75	100		
110	8.6	18.1	54.3#
77	0.0	25.1	37.7#



Abundance Ion 74.90 (74.60 to 75.60): VN053700.D (-1779) (-)

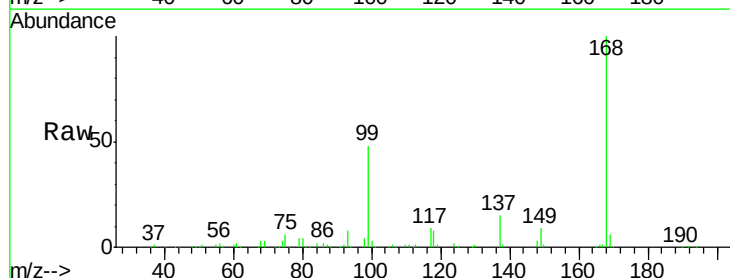
Ion 109.90 (109.60 to 110.60): VN053700.D (-1779) (-)

Ion 76.90 (76.60 to 77.60): VN053700.D (-1779) (-)



#38
 Carbon Tetrachloride
 Concen: 5.367 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.10 min
 Lab File: VN053700.D
 Acq: 11 Feb 2019 13:13

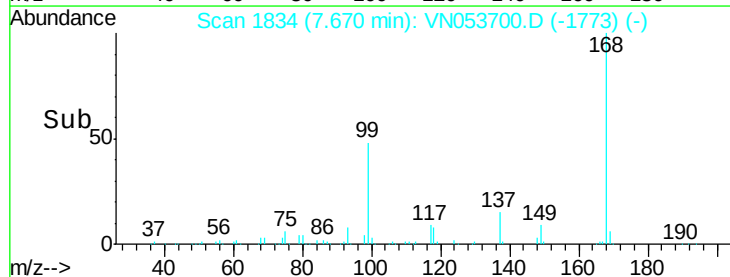
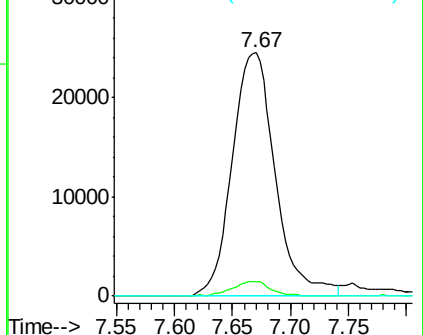
Tgt Ion	117	Resp	63414
Ion Ratio	Lower	Upper	
117	100		
119	5.9	77.2	115.8#
121	0.0	24.6	37.0#

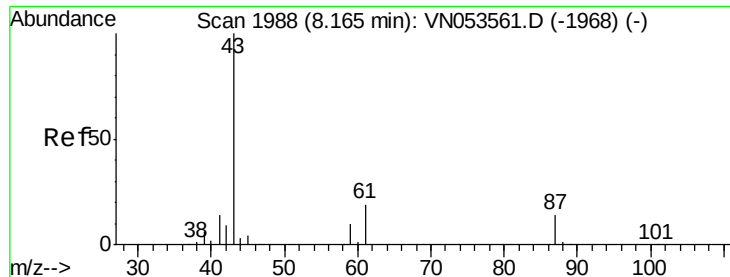


Abundance Ion 116.80 (116.50 to 117.50): VN053700.D (-1773) (-)

Ion 118.80 (118.50 to 119.50): VN053700.D (-1773) (-)

Ion 120.80 (120.50 to 121.50): VN053700.D (-1773) (-)





#43

Isopropyl Acetate

Concen: 2.441 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.01 min

Lab File: VN053700.D

Acq: 11 Feb 2019 13:13

Instrument :

MSVOA_N

ClientSampleId :

SU-03-020819-A

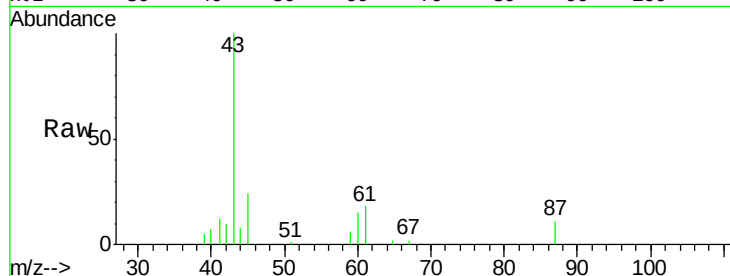
Tot Ion: 43 Resp: 30887

Ion Ratio Lower Upper

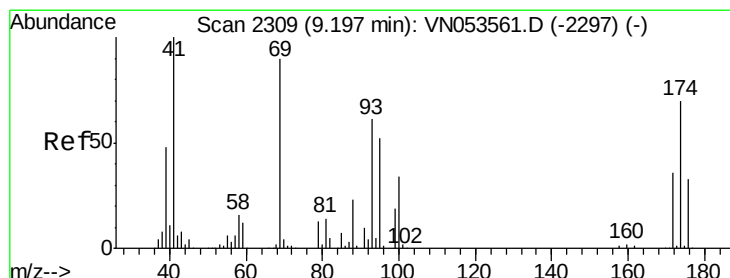
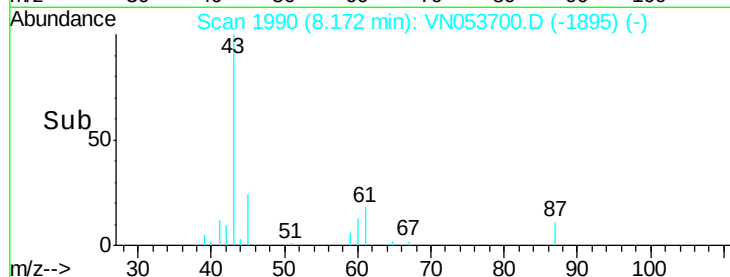
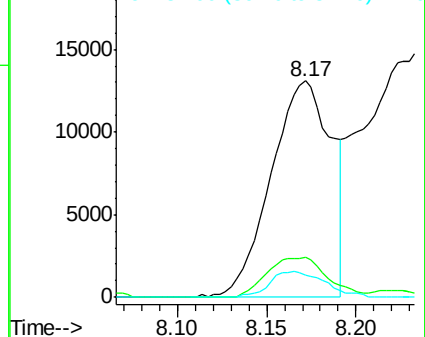
43 100

61 18.5 23.9 35.9#

87 11.0 11.0 16.6



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO



#48

Methyl methacrylate

Concen: 1.662 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN053700.D

Acq: 11 Feb 2019 13:13

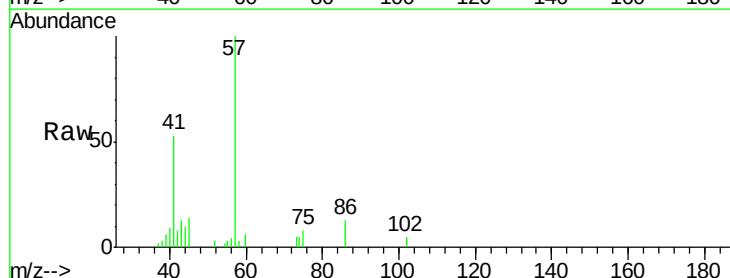
Tgt Ion: 41 Resp: 10035

Ion Ratio Lower Upper

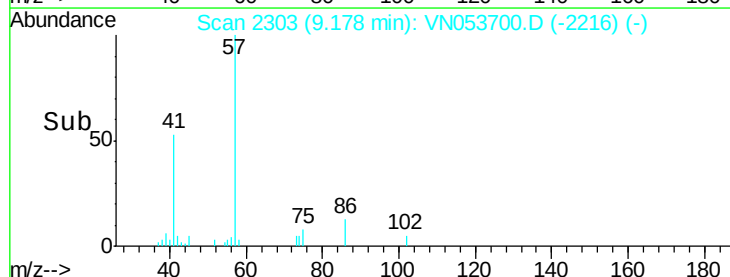
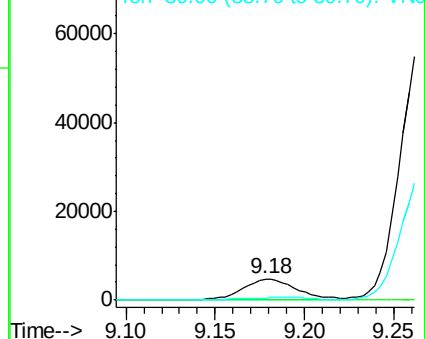
41 100

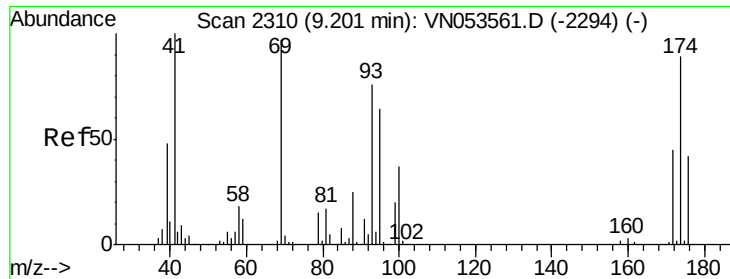
69 0.0 73.8 110.6#

39 0.0 40.0 60.0#



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





#49

1,4-Dioxane

Concen: 39.417 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN053700.D

Acq: 11 Feb 2019 13:13

Instrument :

MSVOA_N

ClientSampleId :

SU-03-020819-A

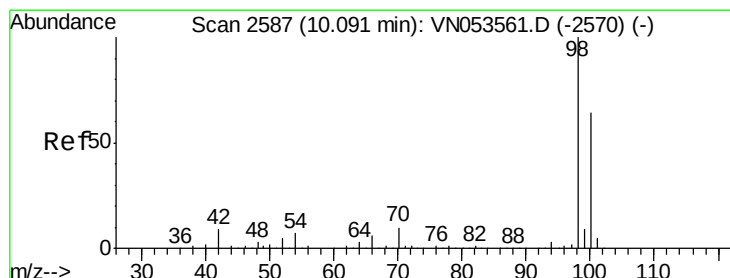
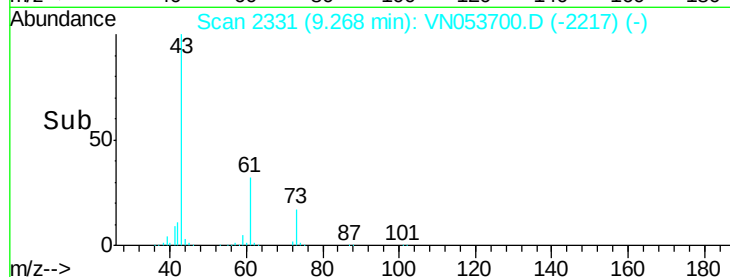
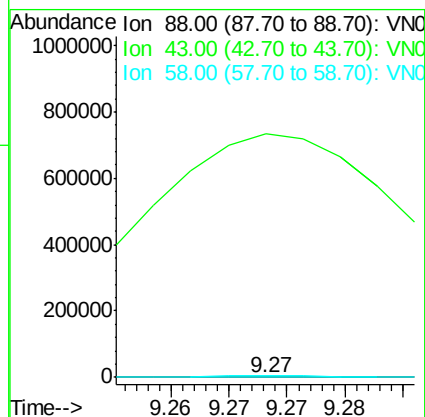
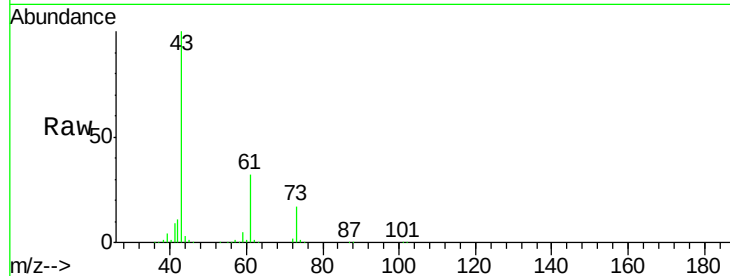
Tot Ion: 88 Resp: 29

Ion Ratio Lower Upper

88 100

43 5215762.1 27.8 41.6#

58 25551.7 56.5 84.7#



#50

Toluene-d8

Concen: 50.874 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN053700.D

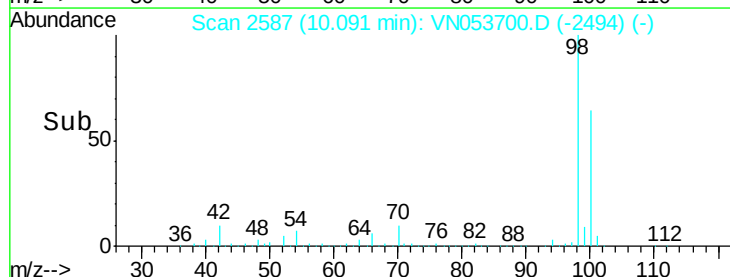
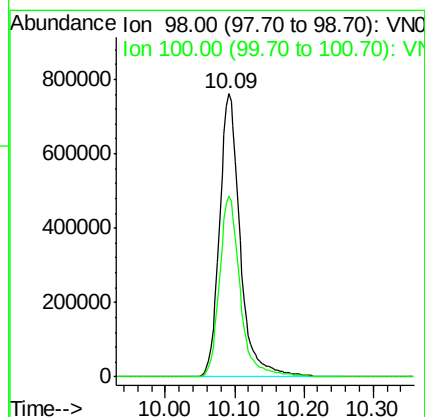
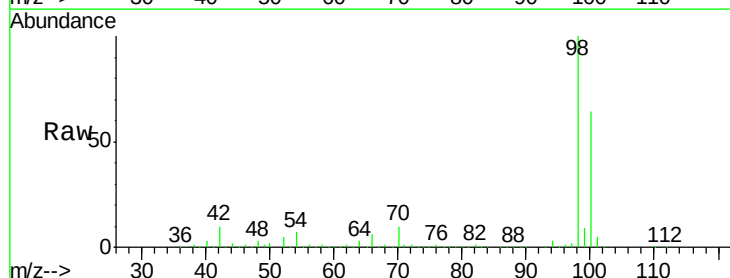
Acq: 11 Feb 2019 13:13

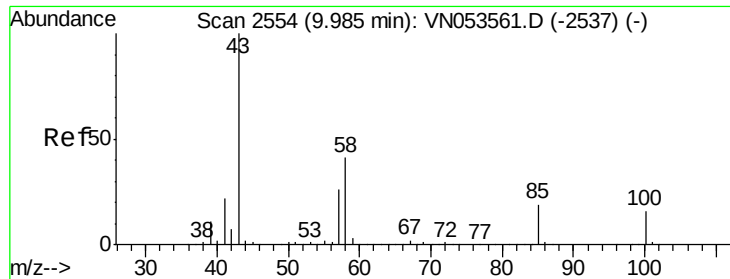
Tgt Ion: 98 Resp: 1570534

Ion Ratio Lower Upper

98 100

100 64.1 51.4 77.0





#51

4-Methyl-2-Pentanone

Concen: 1.542 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053700.D

Acq: 11 Feb 2019 13:13

Instrument :

MSVOA_N

ClientSampleId :

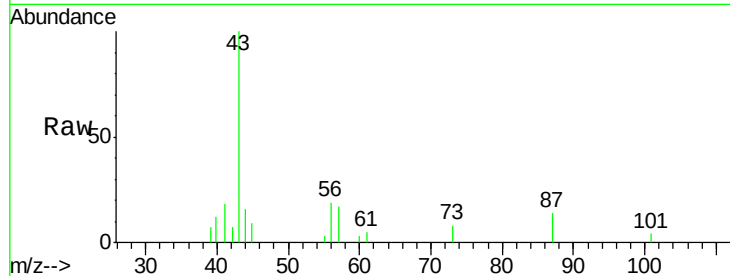
SU-03-020819-A

Tot Ion: 43 Resp: 9586

Ion Ratio Lower Upper

43 100

58 0.0 32.8 49.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.02

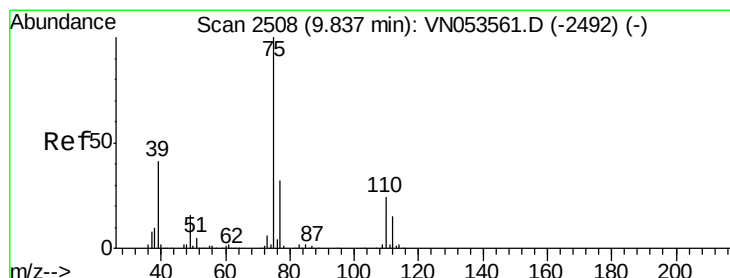
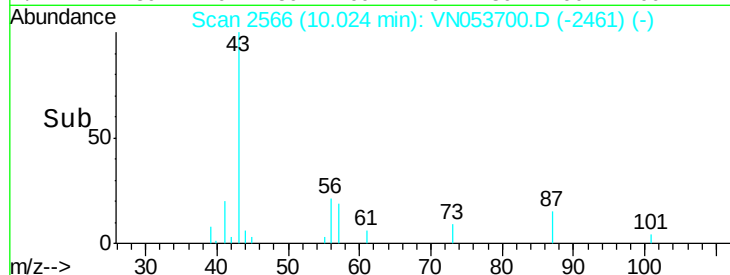
6000

4000

2000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 5.392 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053700.D

Acq: 11 Feb 2019 13:13

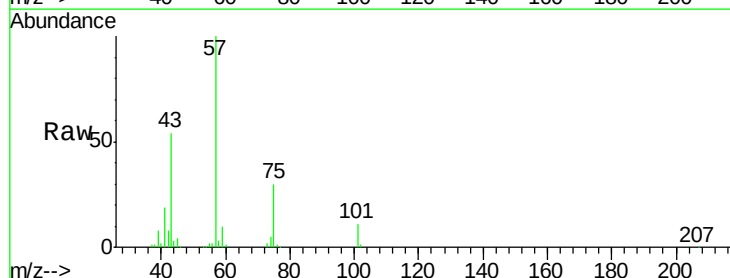
Tgt Ion: 75 Resp: 74184

Ion Ratio Lower Upper

75 100

77 0.4 25.8 38.6#

39 26.6 33.4 50.0#



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

9.90

50000

40000

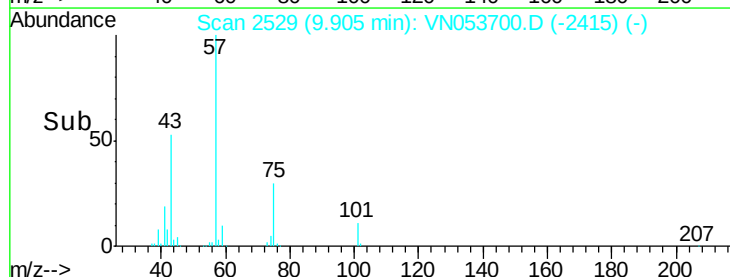
30000

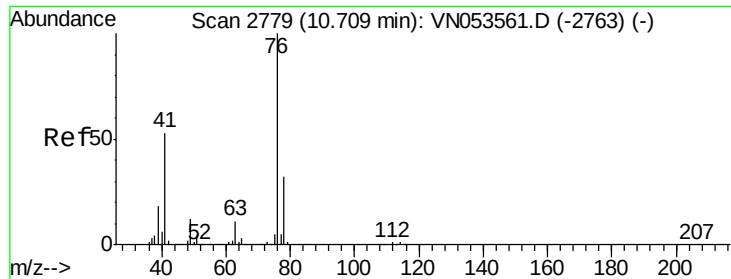
20000

10000

0

Time-->





#57

1,3-Dichloropropane

Concen: 0.969 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN053700.D

Acq: 11 Feb 2019 13:13

Instrument :

MSVOA_N

ClientSampleId :

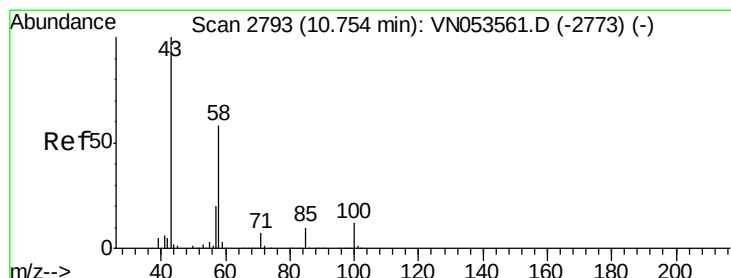
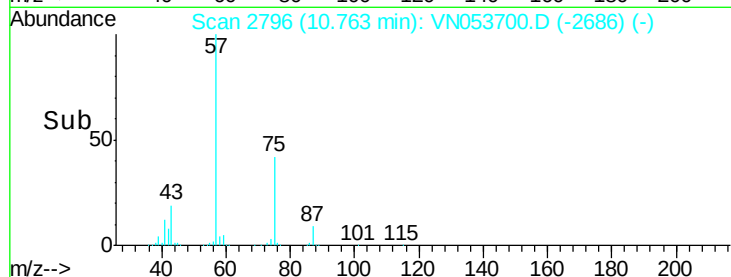
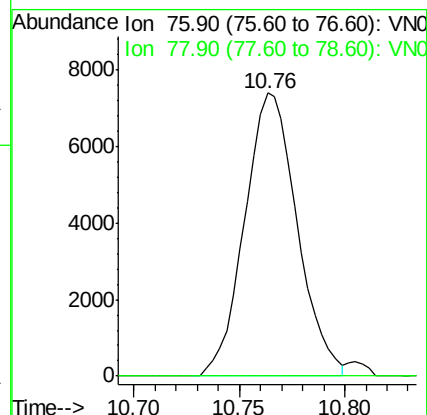
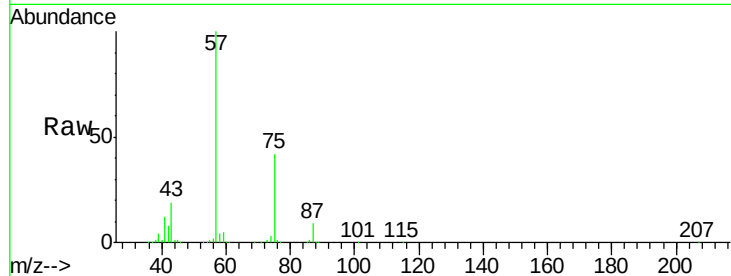
SU-03-020819-A

Tot Ion: 76 Resp: 12813

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 42.374 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN053700.D

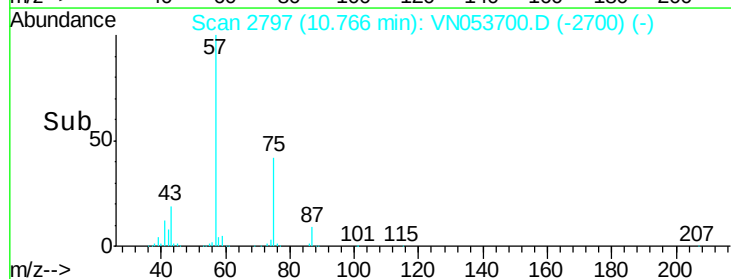
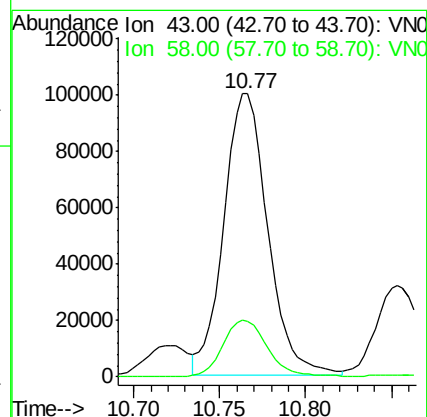
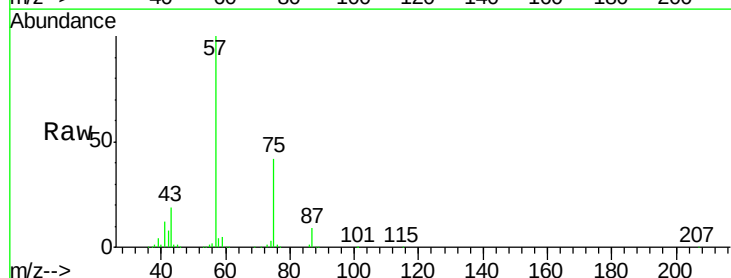
Acq: 11 Feb 2019 13:13

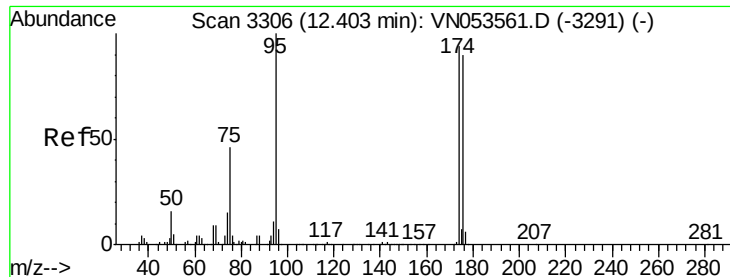
Tgt Ion: 43 Resp: 178835

Ion Ratio Lower Upper

43 100

58 20.4 28.6 85.8#





#62

4-Bromofluorobenzene

Concen: 50.868 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN053700.D

Acq: 11 Feb 2019 13:13

Instrument :

MSVOA_N

ClientSampleId :

SU-03-020819-A

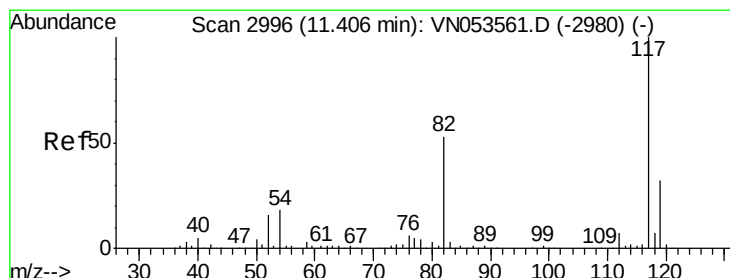
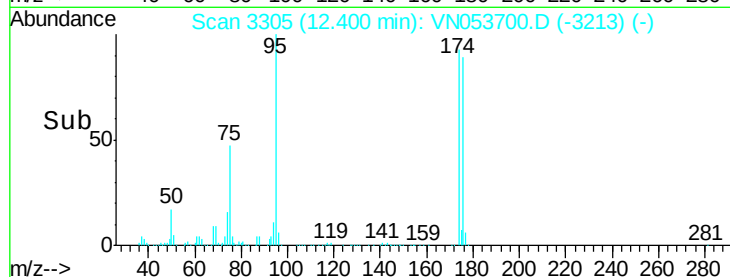
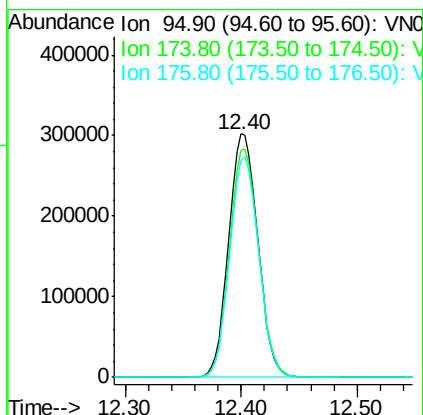
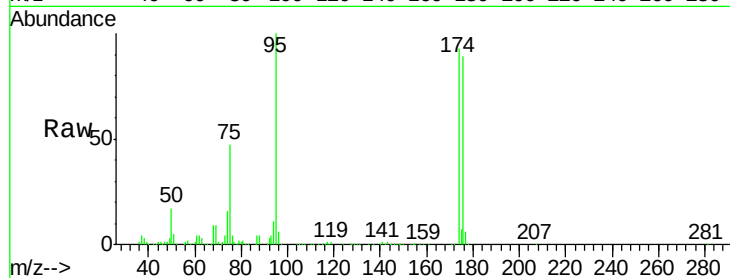
Tot Ion: 95 Resp: 523740

Ion Ratio Lower Upper

95 100

174 93.7 0.0 183.2

176 89.8 0.0 177.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN053700.D

Acq: 11 Feb 2019 13:13

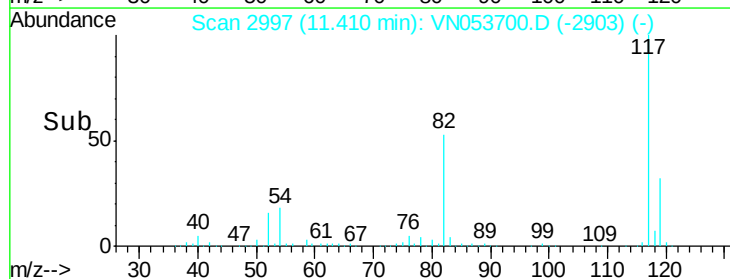
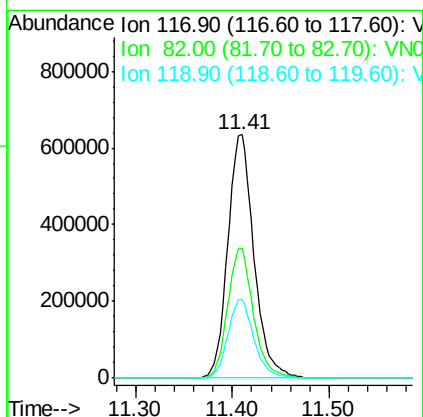
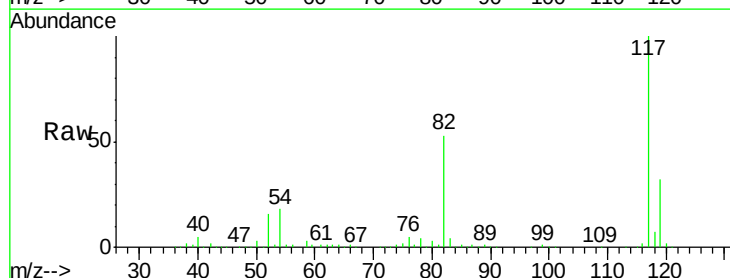
Tgt Ion: 117 Resp: 1189329

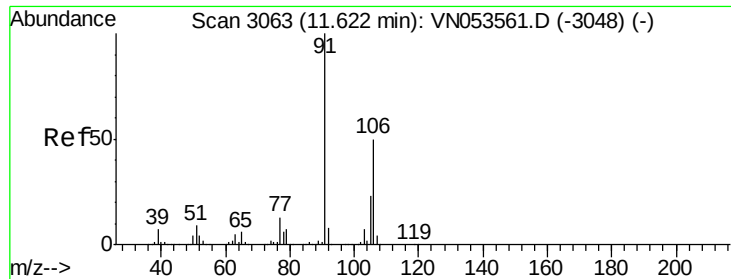
Ion Ratio Lower Upper

117 100

82 53.1 42.9 64.3

119 32.2 26.0 39.0





#68

m/p-Xvlenes

Concen: 0.376 ug/l

RT: 11.62 min Scan# 3061

Delta R.T. -0.01 min

Lab File: VN053700.D

Acq: 11 Feb 2019 13:13

Instrument :

MSVOA_N

ClientSampleId :

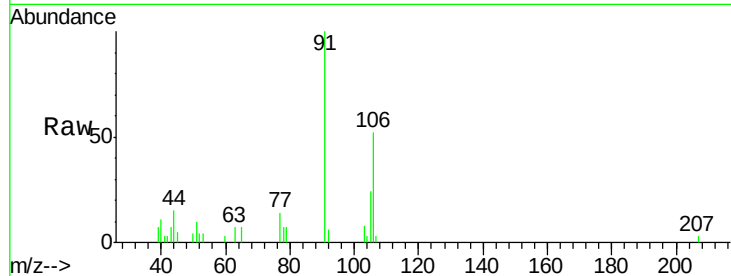
SU-03-020819-A

Tot Ion:106 Resp: 5951

Ion Ratio Lower Upper

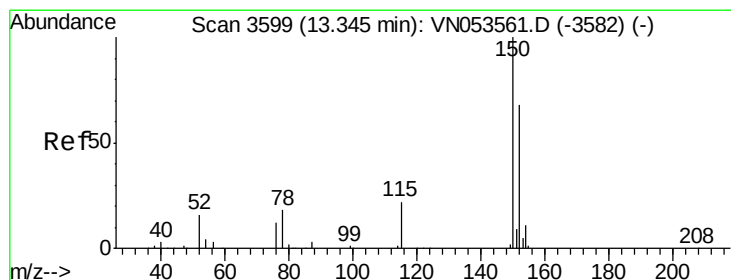
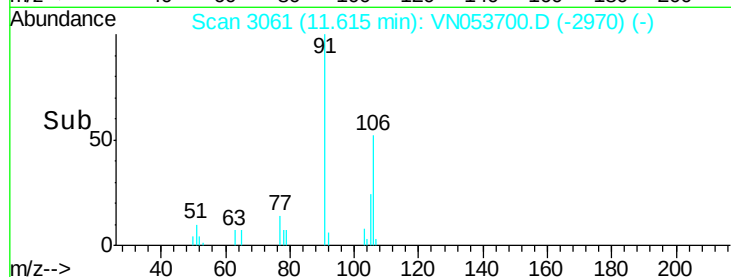
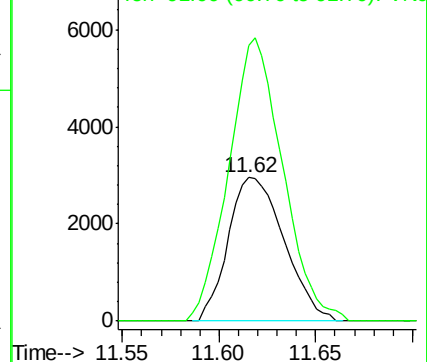
106 100

91 189.8 161.4 242.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN053700.D

Acq: 11 Feb 2019 13:13

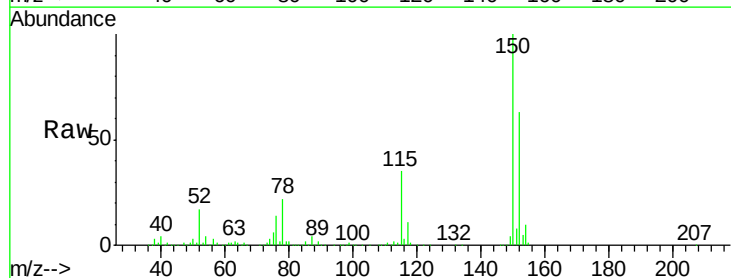
Tgt Ion:152 Resp: 504749

Ion Ratio Lower Upper

152 100

115 55.7 27.8 83.4

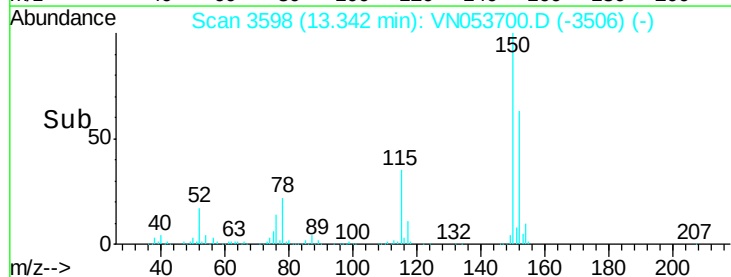
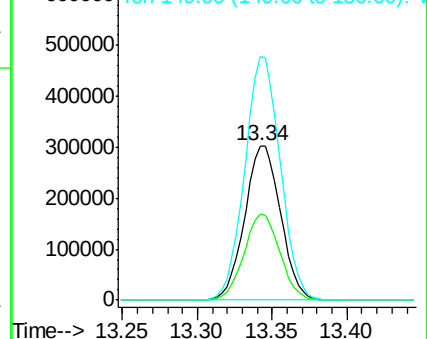
150 156.9 0.0 349.0

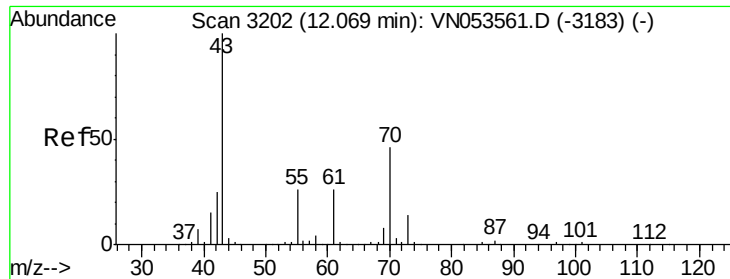


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.128 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053700.D

Acq: 11 Feb 2019 13:13

Instrument :

MSVOA_N

ClientSampleId :

SU-03-020819-A

Tot Ion: 43 Resp: 18161

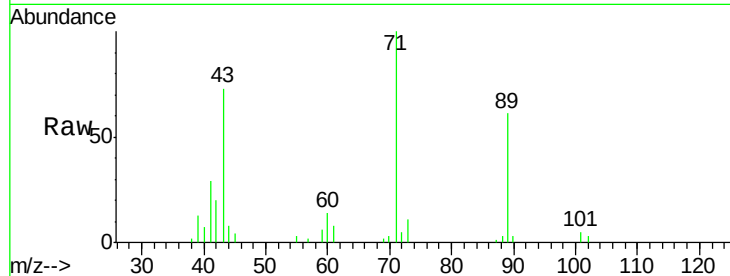
Ion Ratio Lower Upper

43 100

70 2.4 35.4 53.2#

55 5.7 20.9 31.3#

61 10.7 20.5 30.7#

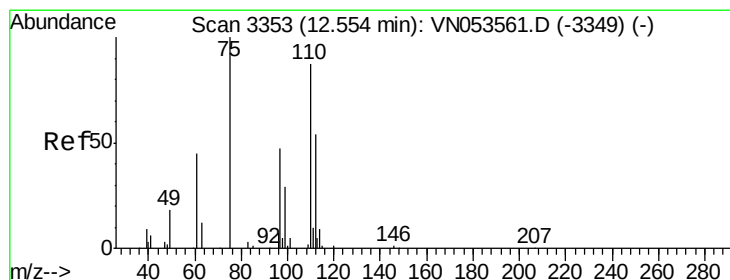
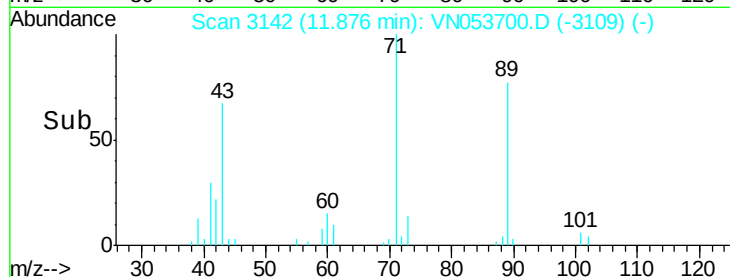
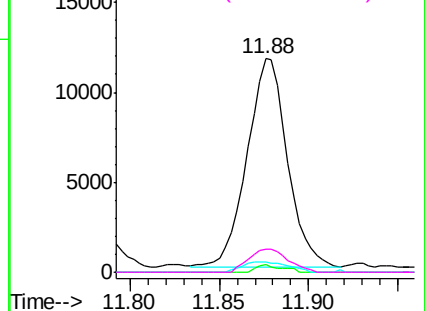


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 37.309 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053700.D

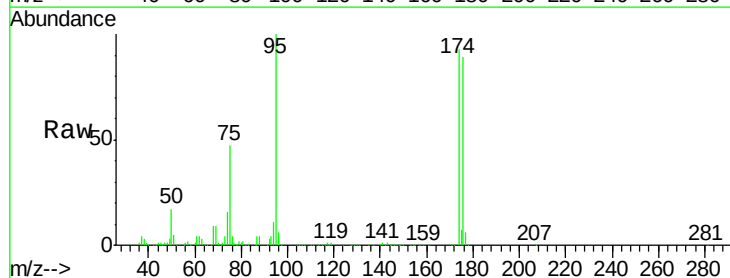
Acq: 11 Feb 2019 13:13

Tgt Ion: 75 Resp: 241881

Ion Ratio Lower Upper

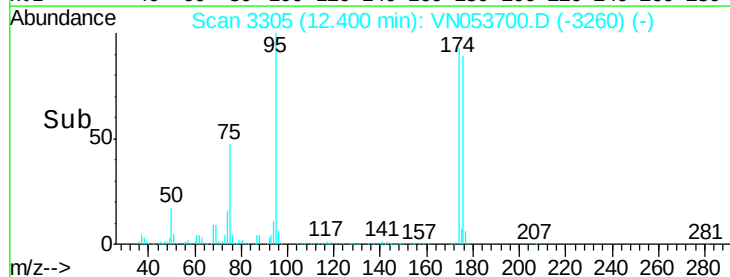
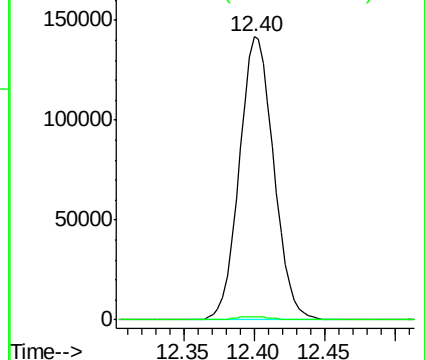
75 100

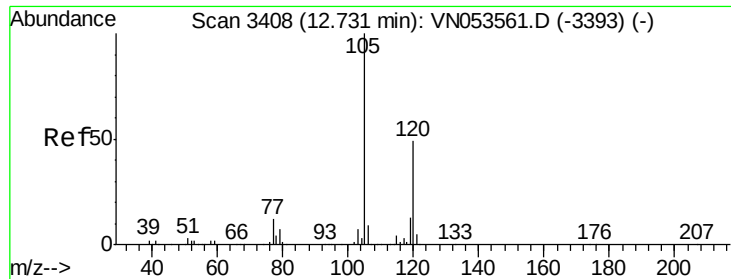
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

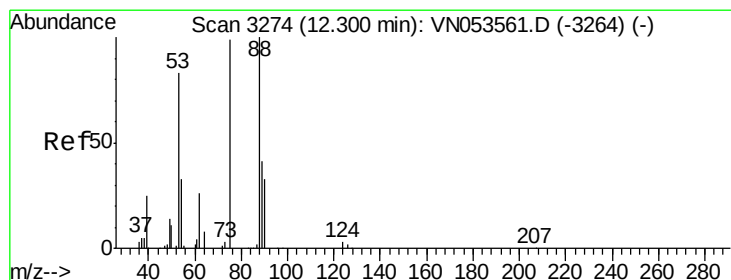
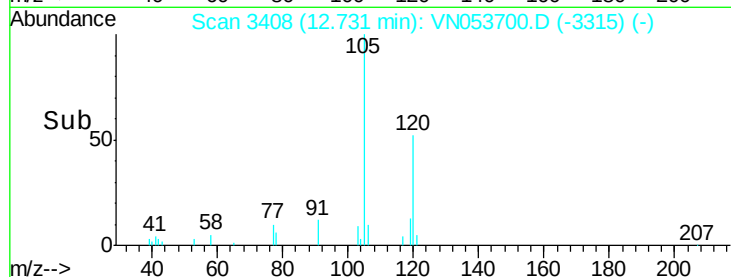
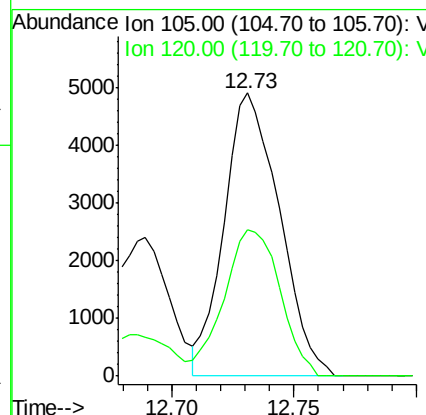
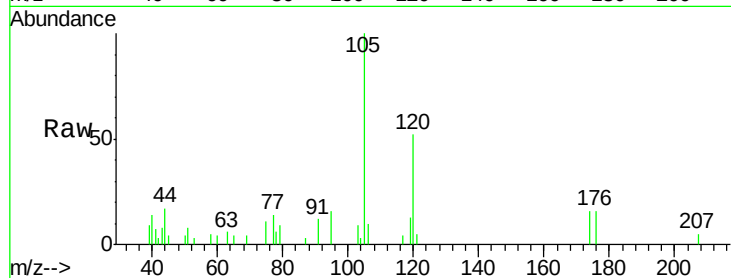




#80
 1,3,5-Trimethylbenzene
 Concen: 0.264 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. -0.00 min
 Lab File: VN053700.D
 Acq: 11 Feb 2019 13:13

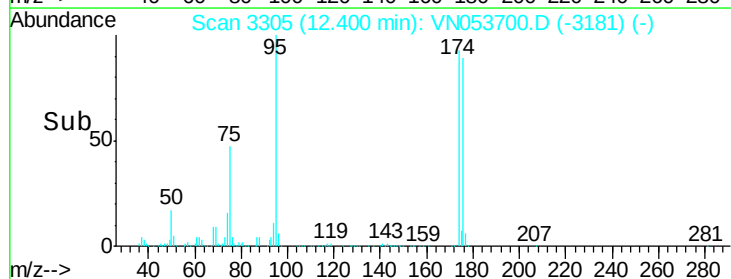
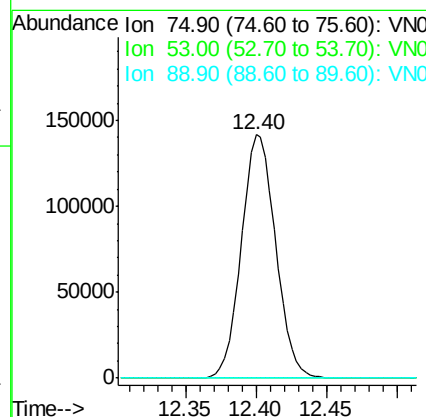
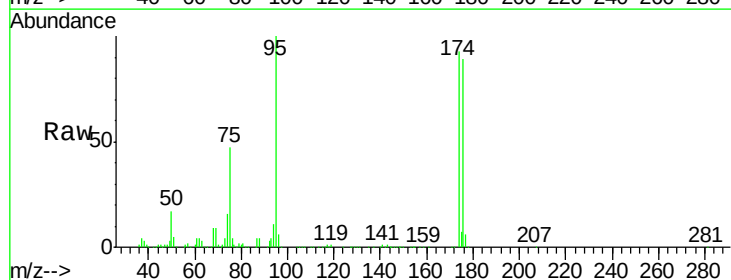
Instrument :
 MSVOA_N
 ClientSampled :
 SU-03-020819-A

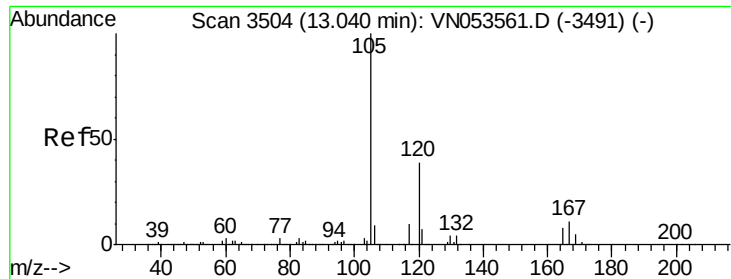
Tot Ion:105 Resp: 7757
 Ion Ratio Lower Upper
 105 100
 120 52.6 24.9 74.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 104.910 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN053700.D
 Acq: 11 Feb 2019 13:13

Tgt Ion: 75 Resp: 241881
 Ion Ratio Lower Upper
 75 100
 53 0.0 69.8 104.6#
 89 0.0 35.6 53.4#

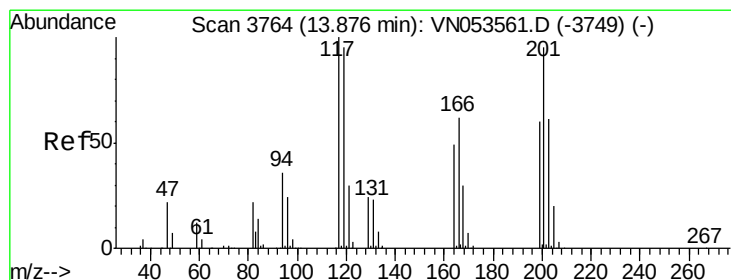
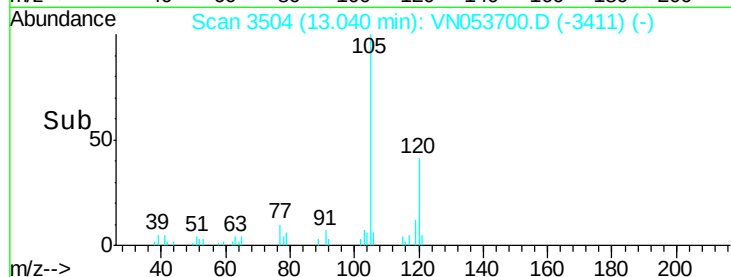
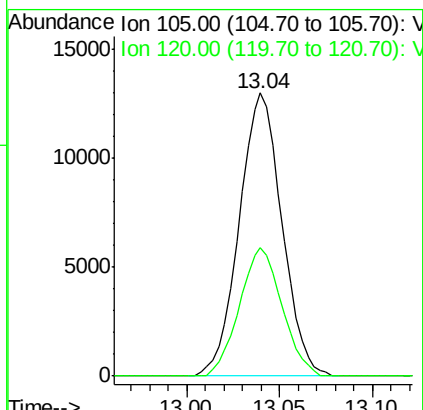
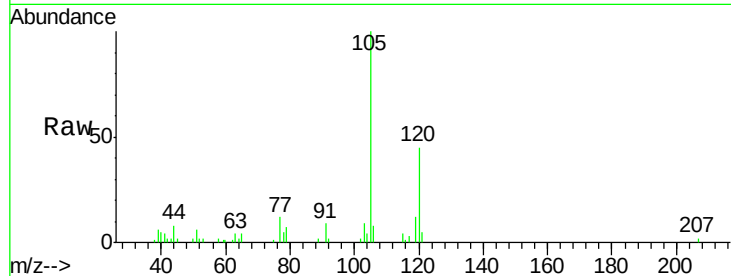




#84
 1,2,4-Trimethylbenzene
 Concen: 0.691 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN053700.D
 Acq: 11 Feb 2019 13:13

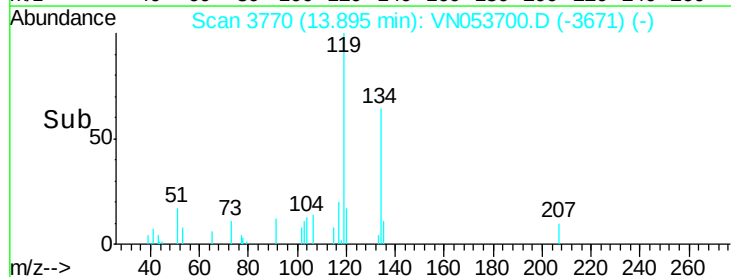
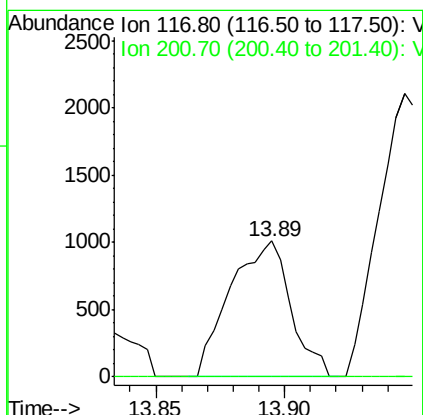
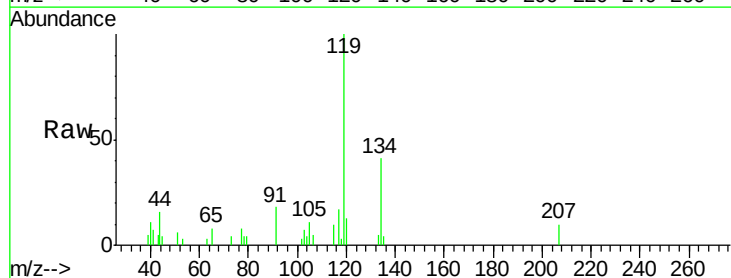
Instrument :
 MSVOA_N
 ClientSampleId :
 SU-03-020819-A

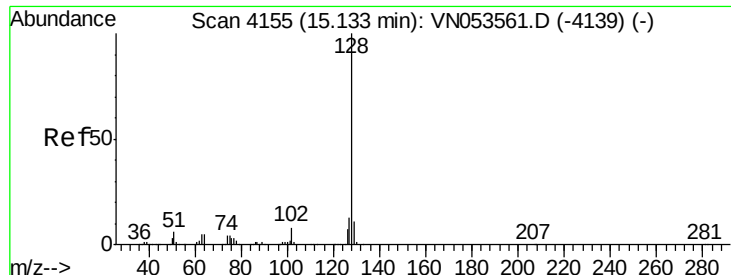
Tot Ion:105 Resp: 20714
 Ion Ratio Lower Upper
 105 100
 120 45.1 23.0 69.0



#90
 Hexachloroethane
 Concen: 0.325 ug/l
 RT: 13.89 min Scan# 3770
 Delta R.T. 0.02 min
 Lab File: VN053700.D
 Acq: 11 Feb 2019 13:13

Tgt Ion:117 Resp: 1658
 Ion Ratio Lower Upper
 117 100
 201 0.0 46.8 140.4#

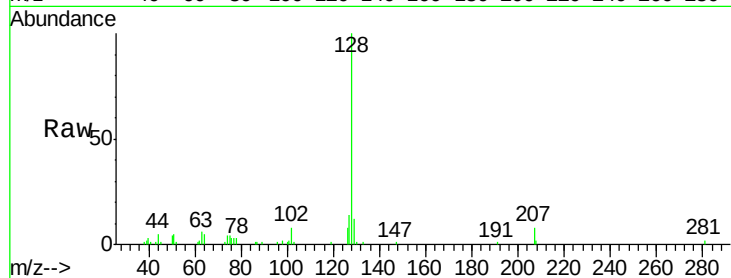




#95
Naphthalene
Concen: 3.710 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN053700.D
Acq: 11 Feb 2019 13:13

Instrument :
MSVOA_N
ClientSampleId :
SU-03-020819-A

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	11.2	8.6	13.0



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

