

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012819\
 Data File : VN053554.D
 Acq On : 28 Jan 2019 19:03
 Operator : JC/SP
 Sample : K1261-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 29 08:22:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 03:10:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	831571	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1330882	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1196543	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	506366	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	428596	52.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.30%	
35) Dibromofluoromethane	7.59	113	415885	54.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.50%	
50) Toluene-d8	10.09	98	1601713	49.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.72%	
62) 4-Bromofluorobenzene	12.40	95	531377	47.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.34%	

Target Compounds

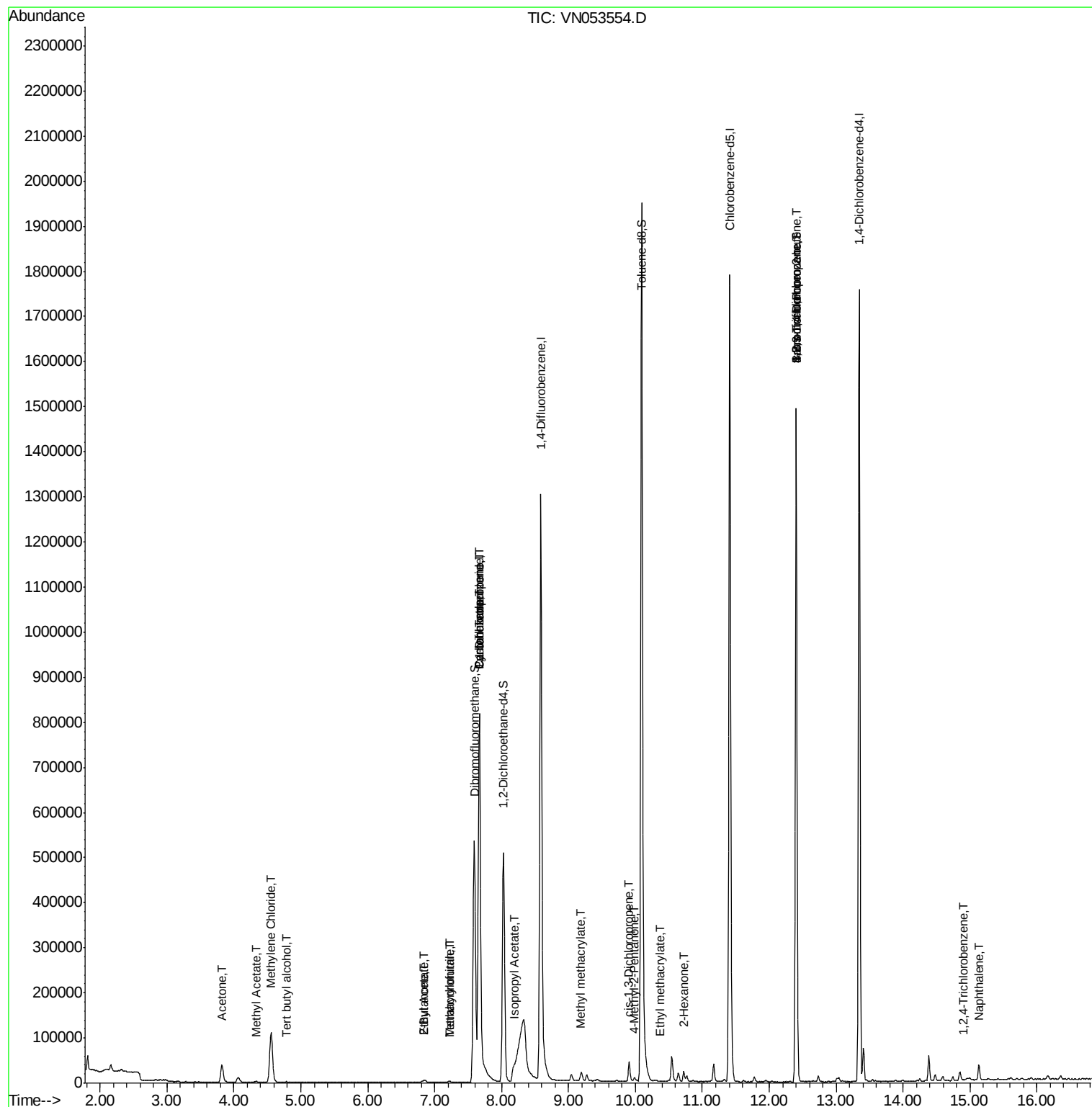
					Qvalue	
11) Tert butyl alcohol	4.78	59	1975	4.911	ug/l #	82
16) Acetone	3.82	43	69122	35.844	ug/l	100
18) Methyl Acetate	4.33	43	3881	0.597	ug/l #	70
20) Methylene Chloride	4.56	84	88427	10.044	ug/l	99
25) 2-Butanone	6.85	43	7717	2.597	ug/l	93
29) Tetrahydrofuran	7.23	42	2413	1.247	ug/l #	55
31) Cyclohexane	7.66	56	11921	0.604	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	48891	4.034	ug/l #	49
37) Ethyl Acetate	6.85	43	7717	1.107	ug/l #	67
38) Carbon Tetrachloride	7.67	117	67456	5.879	ug/l #	15
41) Methacrylonitrile	7.22	41	980	0.901	ug/l #	35
43) Isopropyl Acetate	8.18	43	27803	2.217	ug/l #	51
48) Methyl methacrylate	9.18	41	4526	0.699	ug/l #	24
51) 4-Methyl-2-Pentanone	9.99	43	4737	0.692	ug/l #	79
54) cis-1,3-Dichloropropene	9.90	75	10013	0.715	ug/l #	66
56) Ethyl methacrylate	10.37	69	59	2.063	ug/l #	1
59) 2-Hexanone	10.72	43	23303	4.850	ug/l #	22
71) Bromoform	12.40	173	3535	0.583	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	246622	36.959	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	246622	91.327	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	29	2.770	ug/l #	12
95) Naphthalene	15.13	128	29771	6.179	ug/l	99

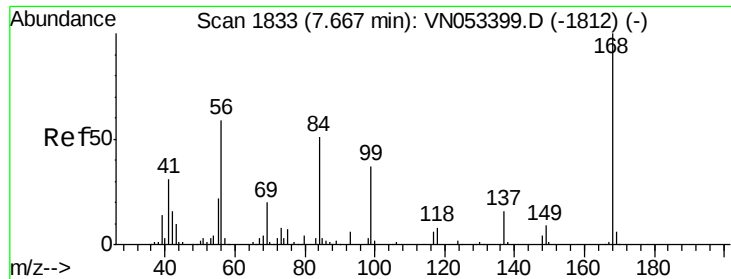
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jan 16 03:10:53 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: VN053554.D

Acq: 28 Jan 2019 19:03

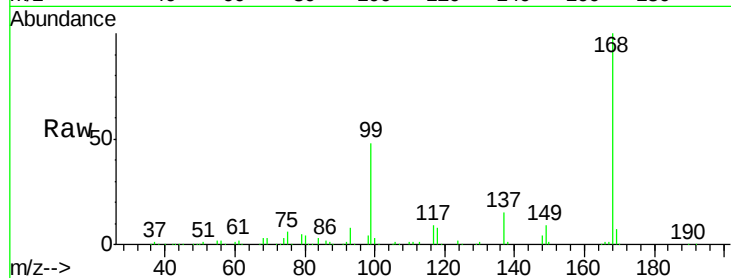
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 831571

Ion Ratio Lower Upper

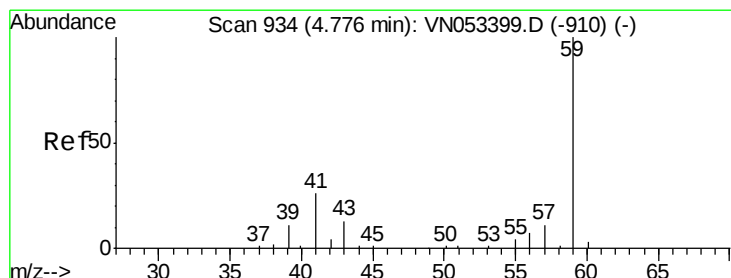
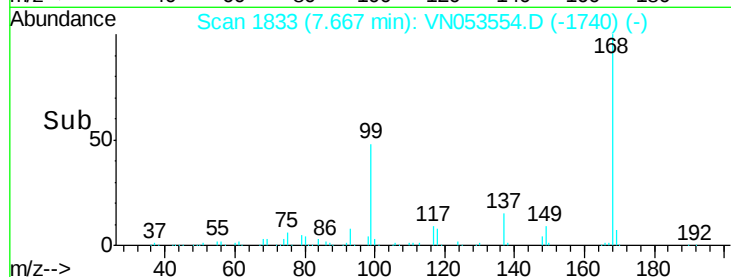
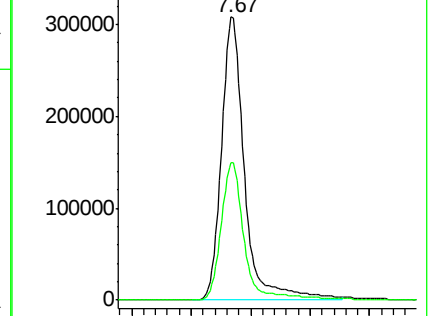
168 100

99 48.5 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 4.911 ug/l

RT: 4.78 min Scan# 936

Delta R.T. 0.01 min

Lab File: VN053554.D

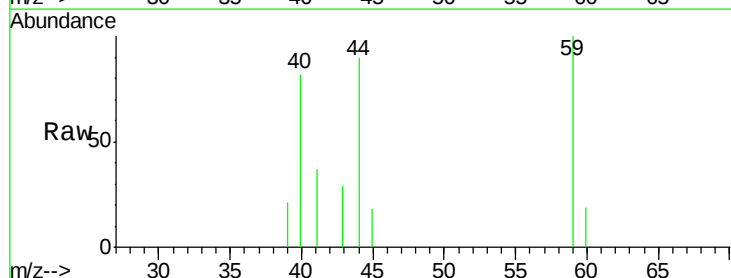
Acq: 28 Jan 2019 19:03

Tgt Ion: 59 Resp: 1975

Ion Ratio Lower Upper

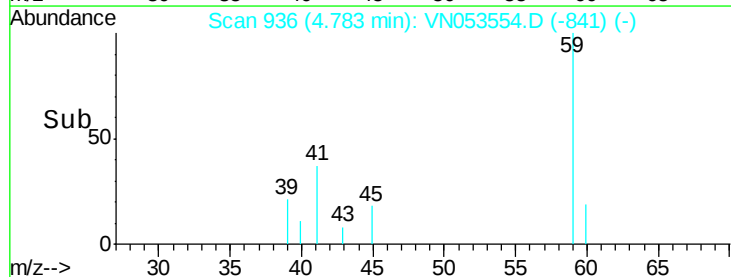
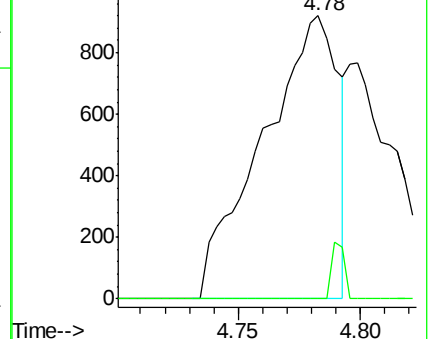
59 100

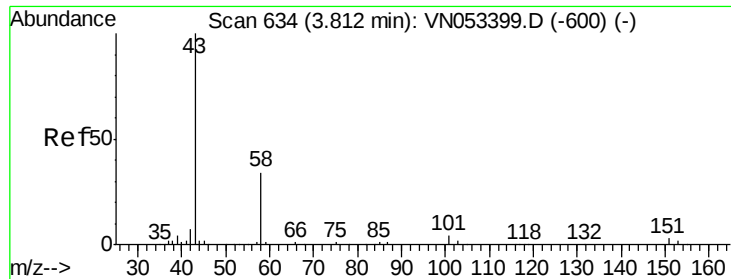
57 3.4 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#16

Acetone

Concen: 35.844 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053554.D

Acq: 28 Jan 2019 19:03

Instrument :

MSVOA_N

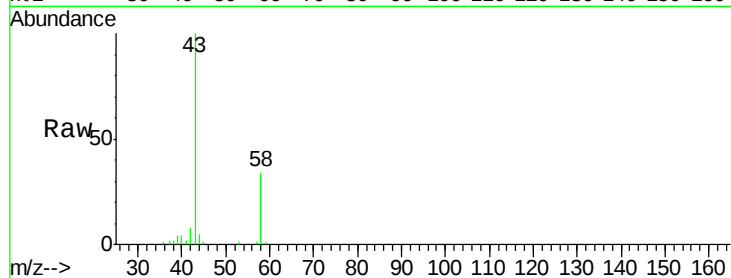
ClientSampled :

Tot Ion: 43 Resp: 69122

Ion Ratio Lower Upper

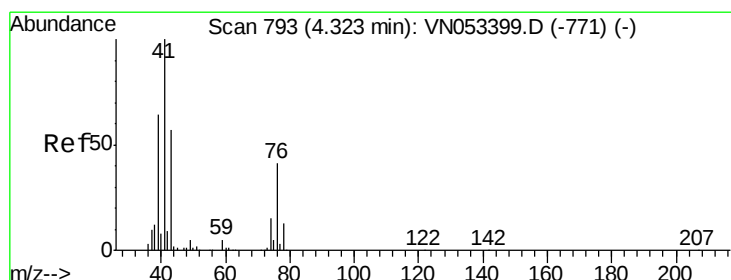
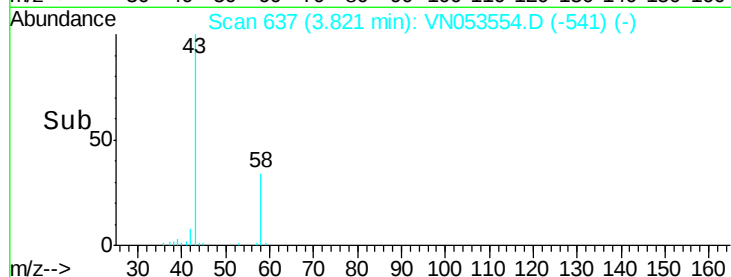
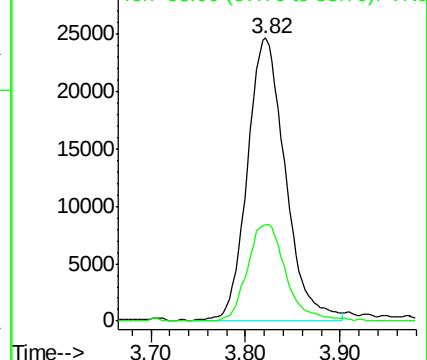
43 100

58 34.0 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.597 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN053554.D

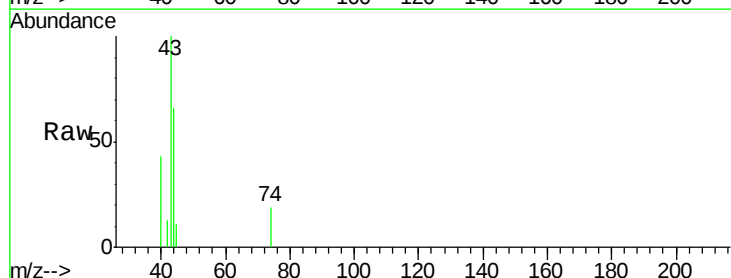
Acq: 28 Jan 2019 19:03

Tgt Ion: 43 Resp: 3881

Ion Ratio Lower Upper

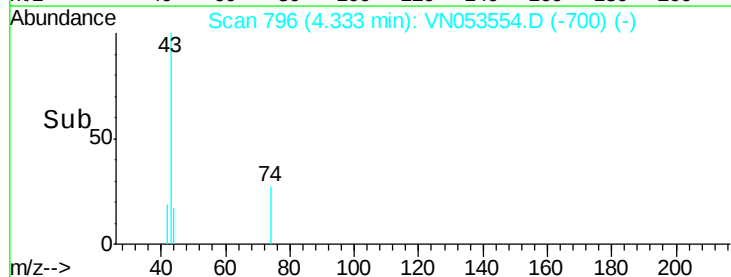
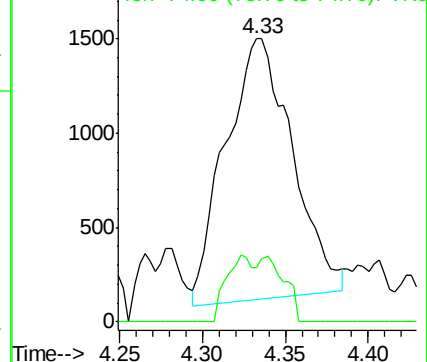
43 100

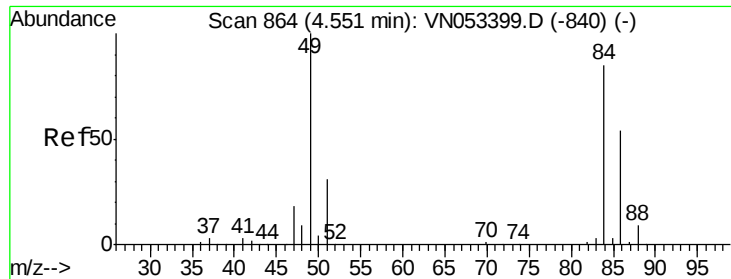
74 9.6 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

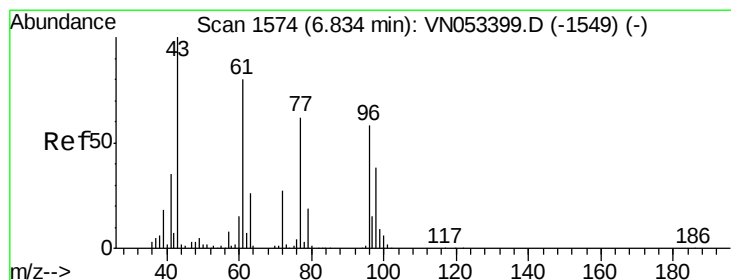
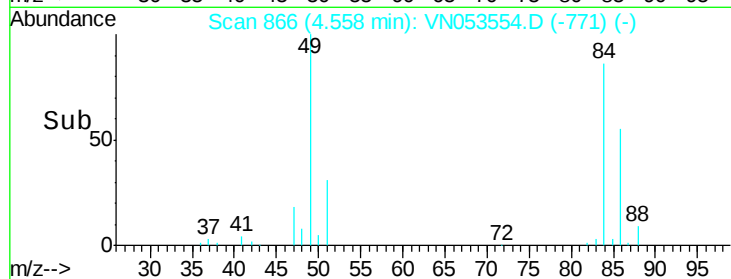
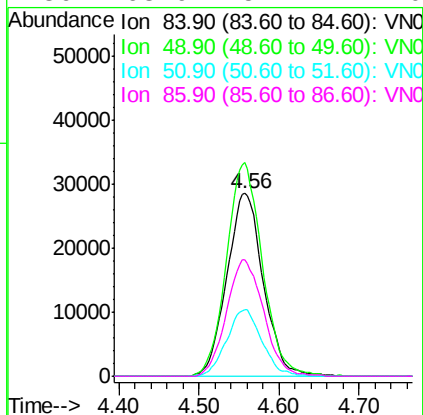
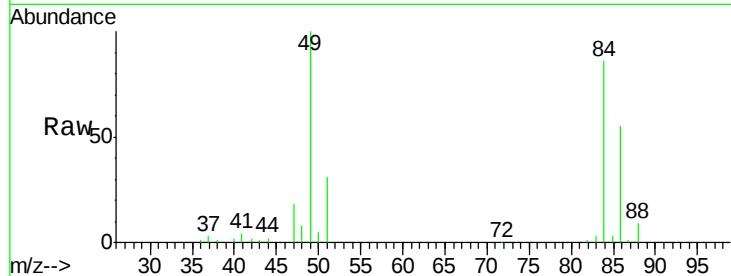




#20
Methvlene Chloride
Concen: 10.044 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN053554.D
Acq: 28 Jan 2019 19:03

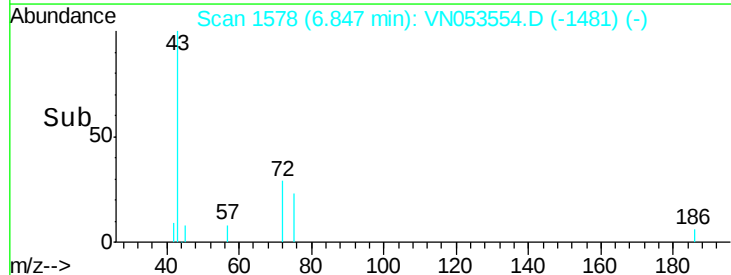
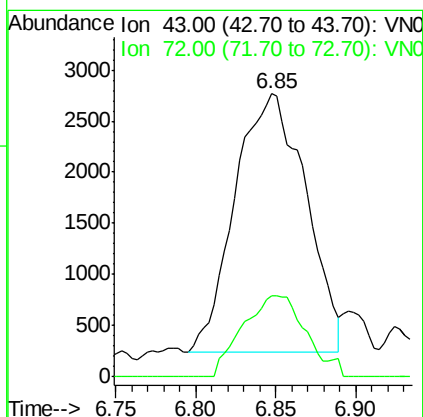
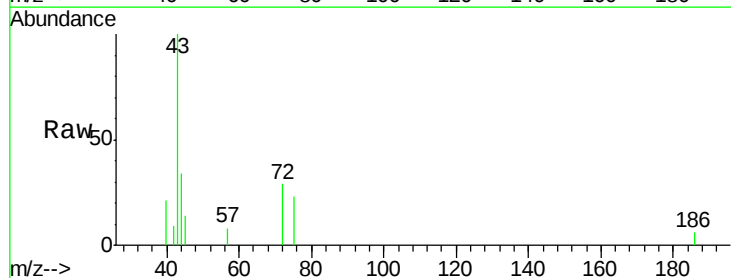
Instrument :
MSVOA_N
ClientSampled :

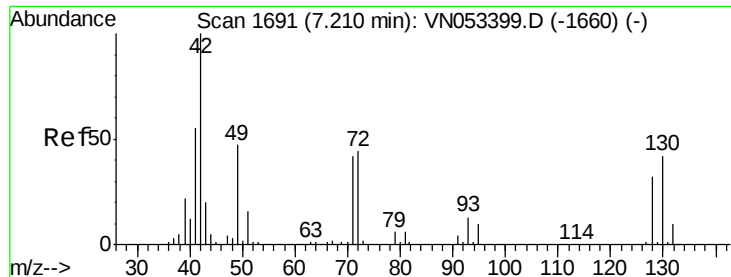
Tot Ion:	84	Resp:	88427
Ion	Ratio	Lower	Upper
84	100		
49	116.8	94.3	141.5
51	36.3	29.4	44.2
86	63.9	51.4	77.0



#25
2-Butanone
Concen: 2.597 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN053554.D
Acq: 28 Jan 2019 19:03

Tgt Ion:	43	Resp:	7717
Ion	Ratio	Lower	Upper
43	100		
72	31.4	22.0	33.0

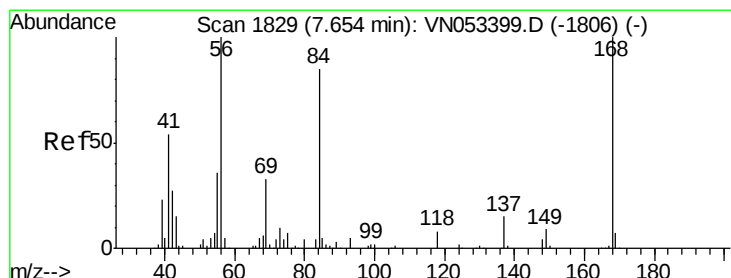
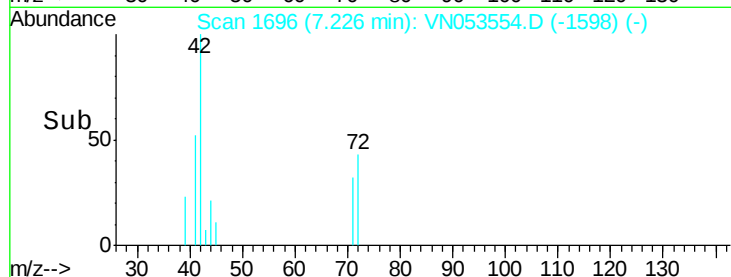
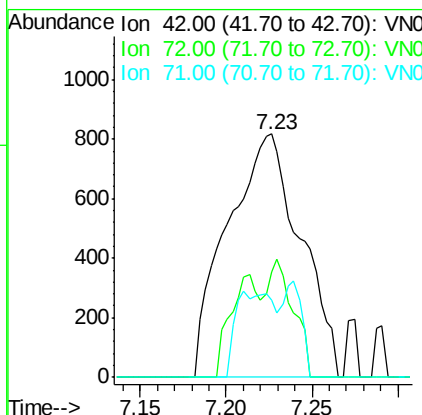
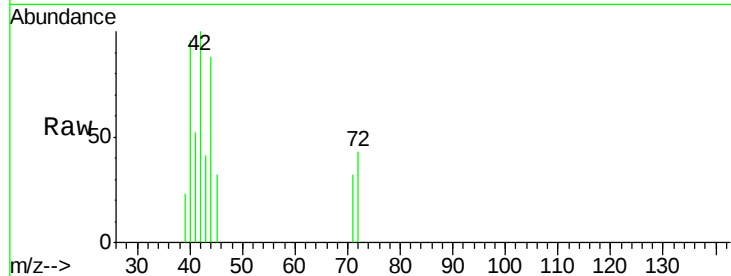




#29
Tetrahydrofuran
Concen: 1.247 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.02 min
Lab File: VN053554.D
Acq: 28 Jan 2019 19:03

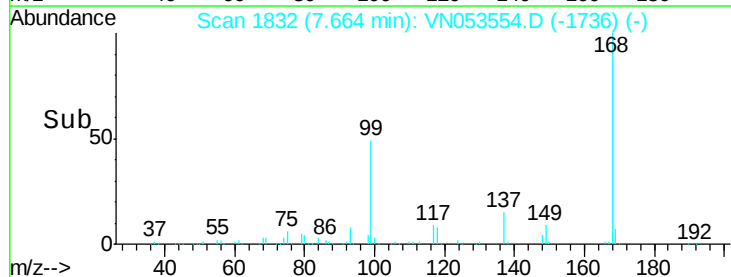
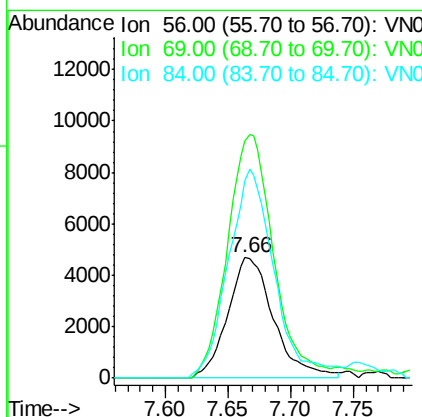
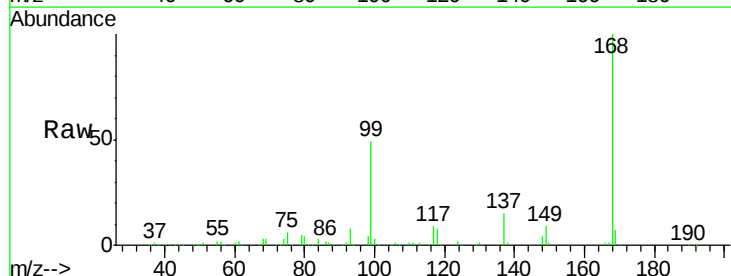
Instrument :
MSVOA_N
ClientSampled :

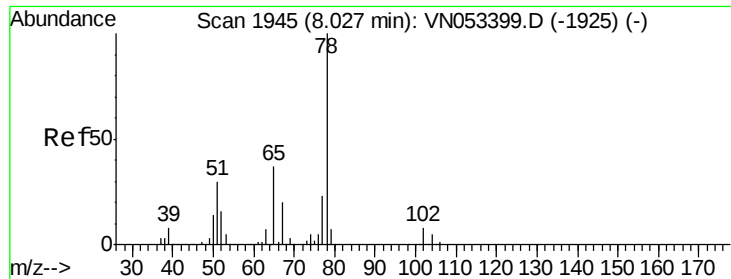
Tot Ion: 42 Resp: 2413
Ion Ratio Lower Upper
42 100
72 17.6 35.2 52.8#
71 10.3 33.0 49.4#



#31
Cyclohexane
Concen: 0.604 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN053554.D
Acq: 28 Jan 2019 19:03

Tgt Ion: 56 Resp: 11921
Ion Ratio Lower Upper
56 100
69 196.7 26.4 39.6#
84 163.6 67.9 101.9#





#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053554.D

Acq: 28 Jan 2019 19:03

Instrument :

MSVOA_N

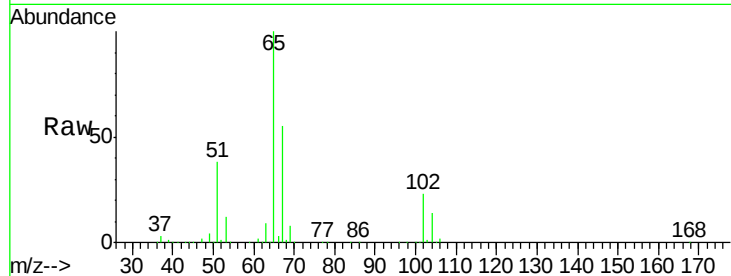
ClientSampleId :

Tot Ion: 65 Resp: 428596

Ion Ratio Lower Upper

65 100

67 55.3 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VN053399.D (-1925) (-)

Ion 66.90 (66.60 to 67.60): VN053399.D (-1925) (-)

8.03

200000

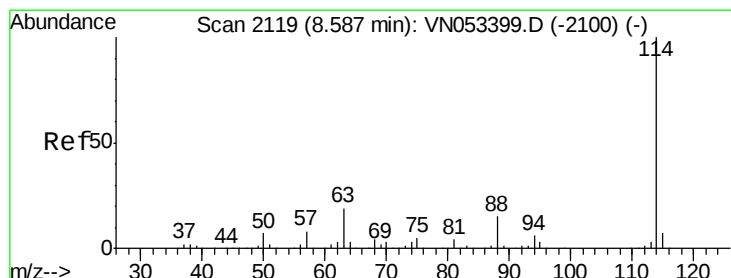
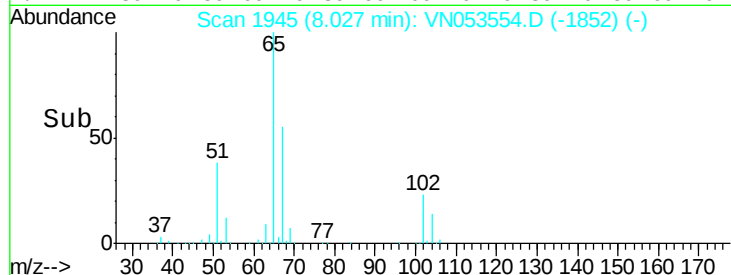
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053554.D

Acq: 28 Jan 2019 19:03

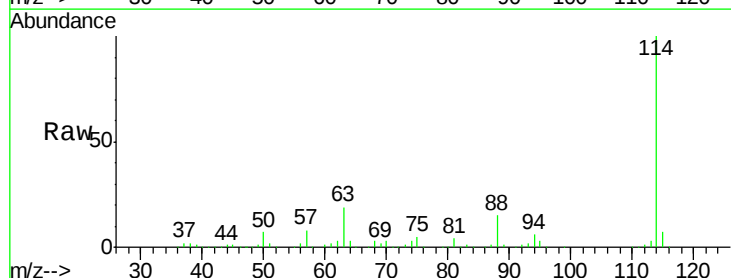
Tgt Ion: 114 Resp: 1330882

Ion Ratio Lower Upper

114 100

63 19.1 0.0 38.6

88 15.1 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): VN053399.D (-2100) (-)

Ion 63.00 (62.70 to 63.70): VN053399.D (-2100) (-)

Ion 87.90 (87.60 to 88.60): VN053399.D (-2100) (-)

8.59

800000

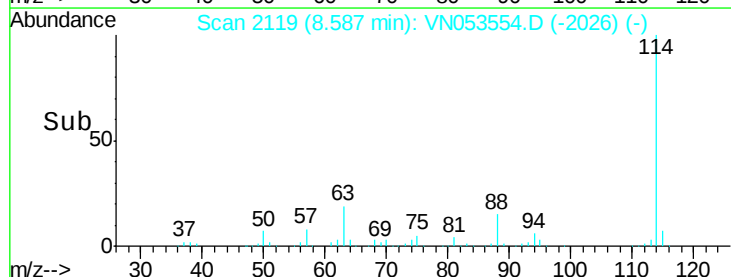
600000

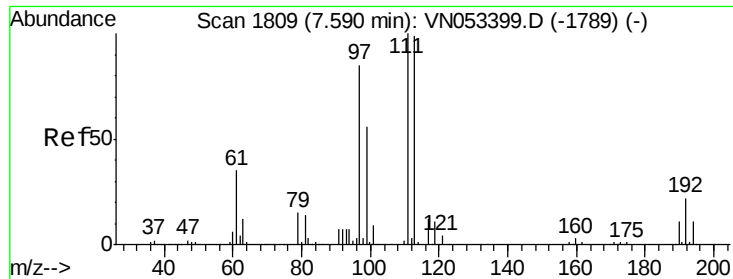
400000

200000

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Time-->

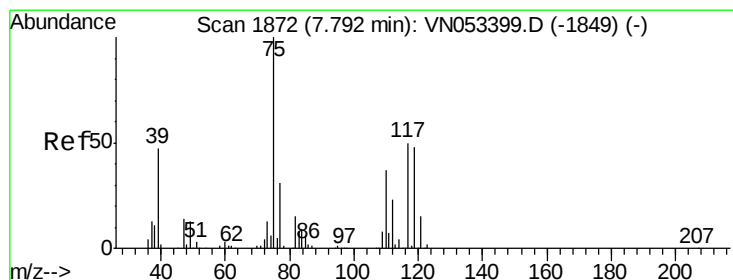
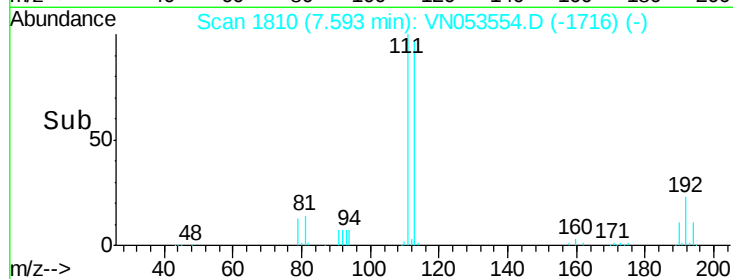
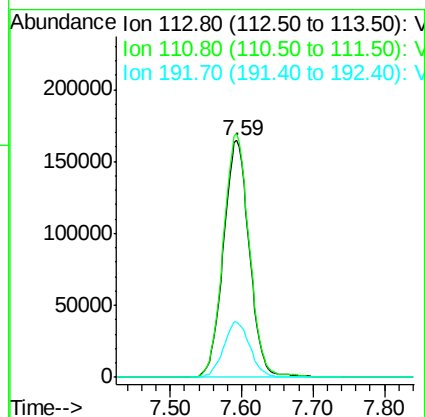
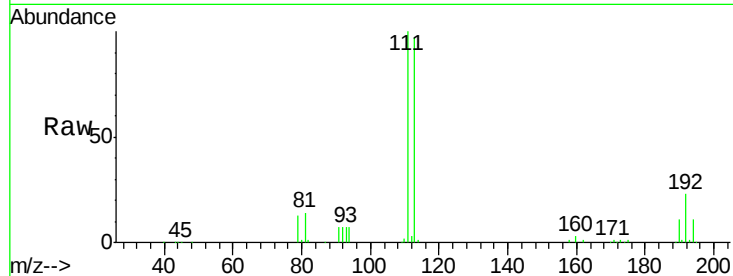




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053554.D
 Acq: 28 Jan 2019 19:03

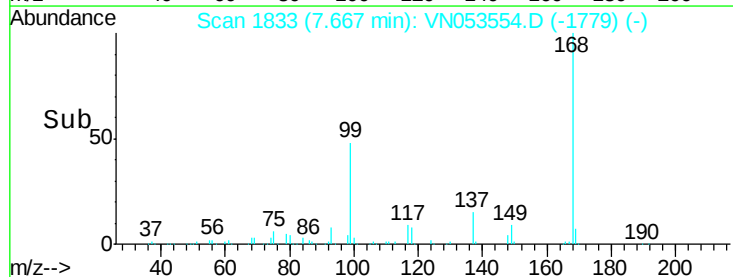
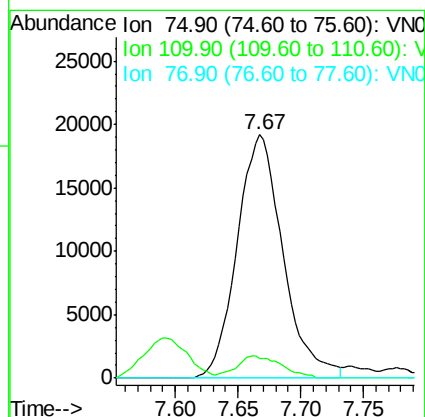
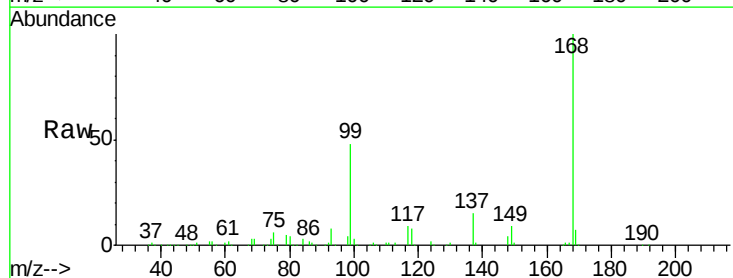
Instrument :
 MSVOA_N
 ClientSampled :

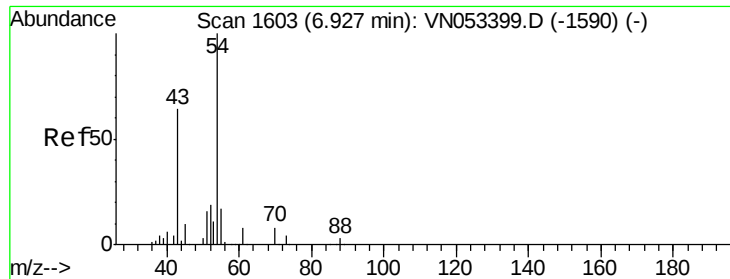
Tot Ion:113 Resp: 415885
 Ion Ratio Lower Upper
 113 100
 111 102.3 81.1 121.7
 192 23.7 18.2 27.2



#36
 1,1-Dichloropropene
 Concen: 4.034 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN053554.D
 Acq: 28 Jan 2019 19:03

Tgt Ion: 75 Resp: 48891
 Ion Ratio Lower Upper
 75 100
 110 8.9 18.1 54.3#
 77 0.0 25.1 37.7#

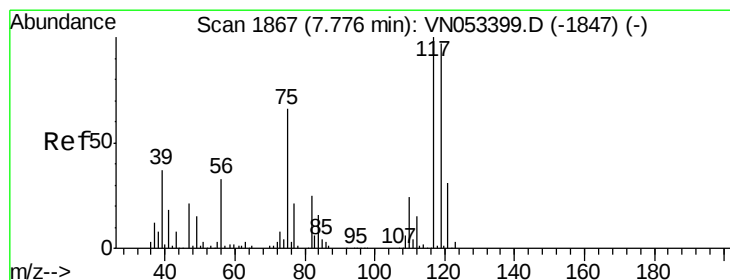
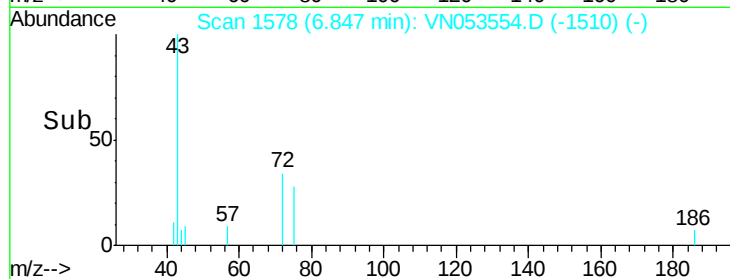
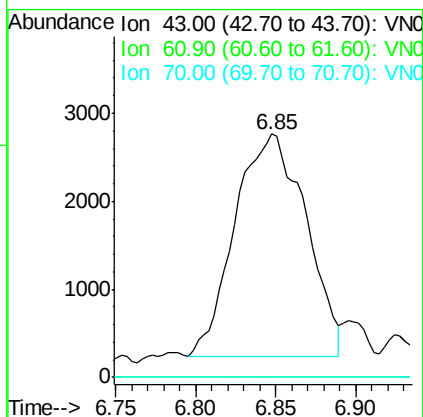
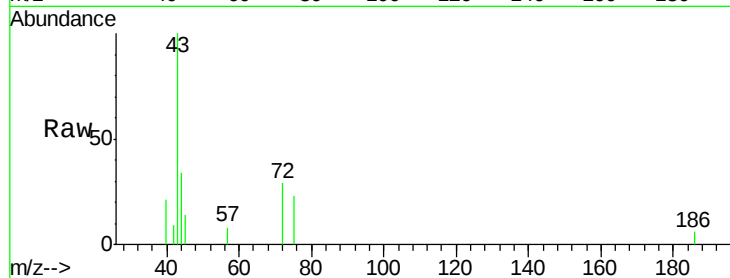




#37
Ethyl Acetate
Concen: 1.107 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. -0.08 min
Lab File: VN053554.D
Acq: 28 Jan 2019 19:03

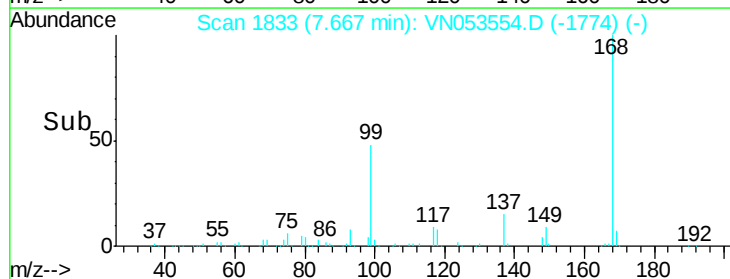
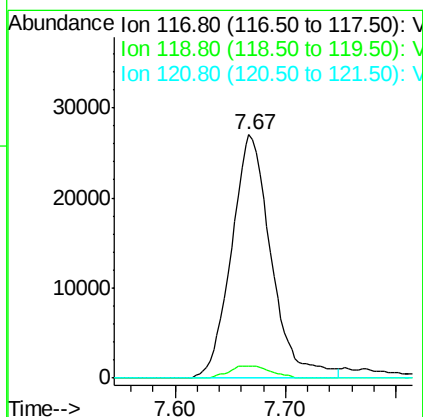
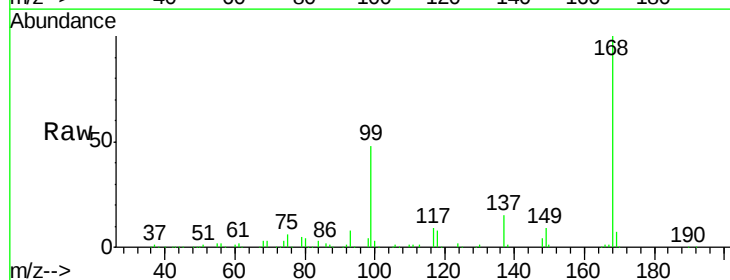
Instrument :
MSVOA_N
ClientSampleId :

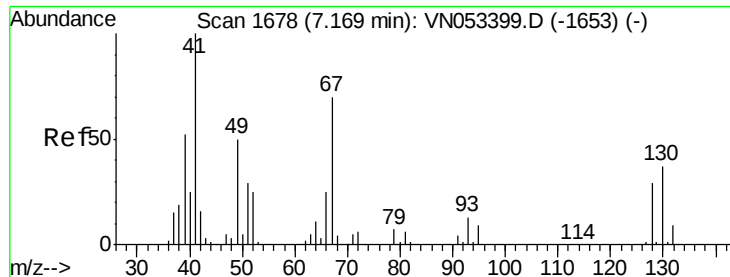
Tot Ion: 43 Resp: 7717
Ion Ratio Lower Upper
43 100
61 0.0 11.8 17.6#
70 0.0 8.6 12.8#



#38
Carbon Tetrachloride
Concen: 5.879 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN053554.D
Acq: 28 Jan 2019 19:03

Tgt Ion: 117 Resp: 67456
Ion Ratio Lower Upper
117 100
119 4.8 77.2 115.8#
121 0.0 24.6 37.0#

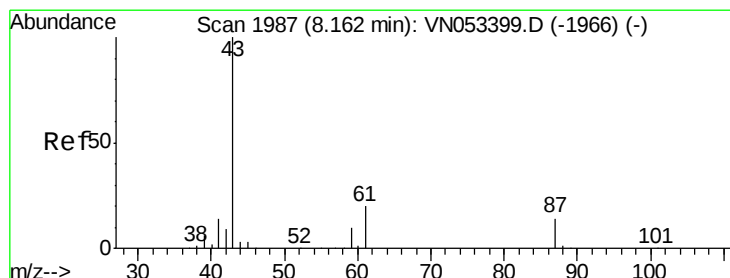
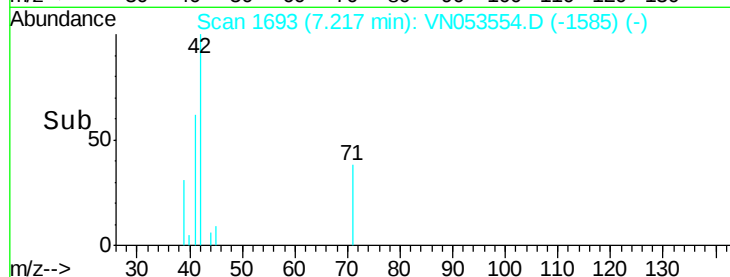
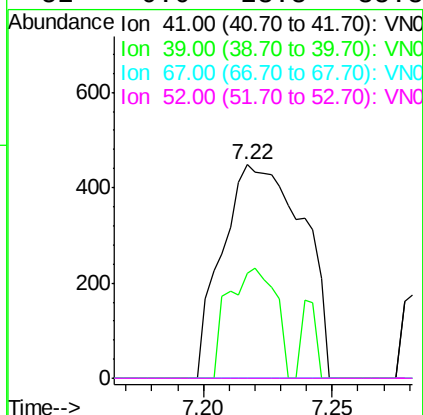
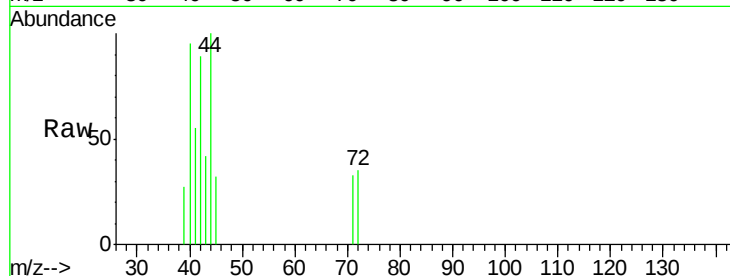




#41
Methacrylonitrile
Concen: 0.901 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.05 min
Lab File: VN053554.D
Acq: 28 Jan 2019 19:03

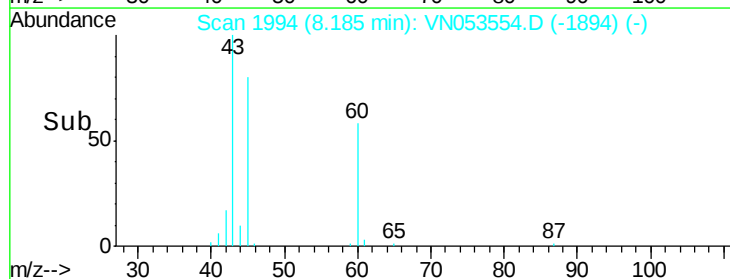
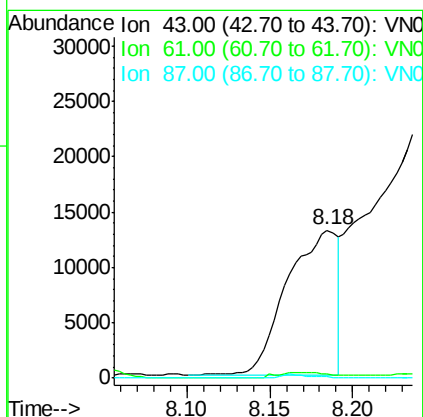
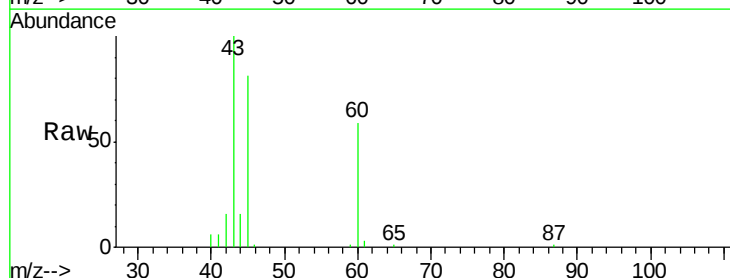
Instrument :
MSVOA_N
ClientSampleId :

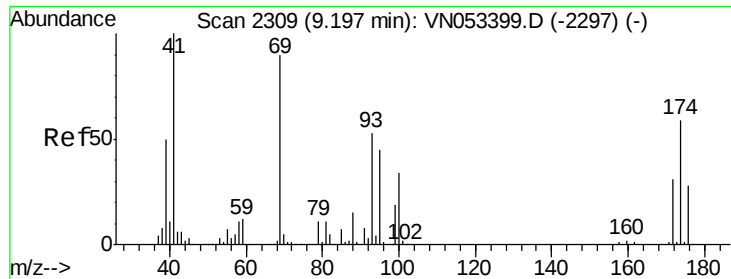
Tot Ion: 41 Resp: 980
Ion Ratio Lower Upper
41 100
39 30.5 46.8 70.2#
67 0.0 63.0 94.6#
52 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 2.217 ug/l
RT: 8.18 min Scan# 1994
Delta R.T. 0.02 min
Lab File: VN053554.D
Acq: 28 Jan 2019 19:03

Tgt Ion: 43 Resp: 27803
Ion Ratio Lower Upper
43 100
61 0.0 23.9 35.9#
87 0.0 11.0 16.6#

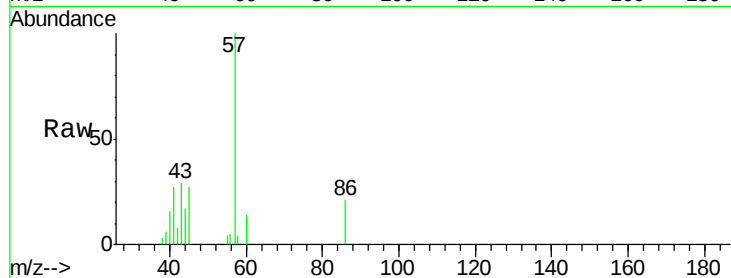




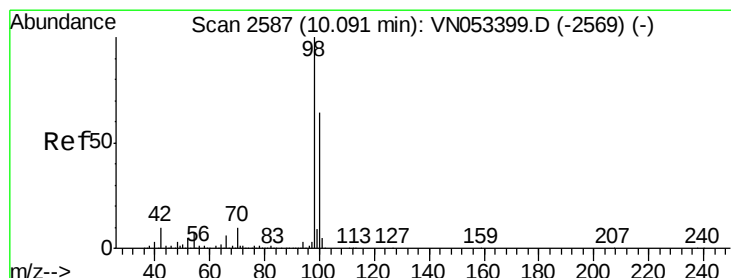
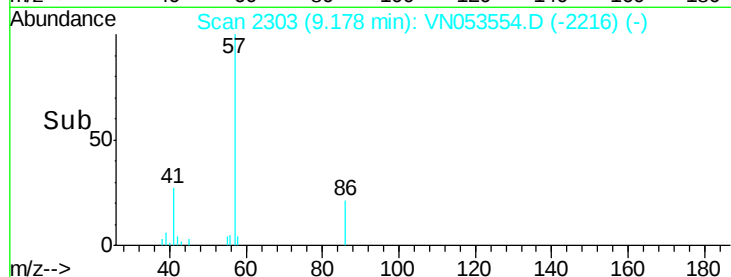
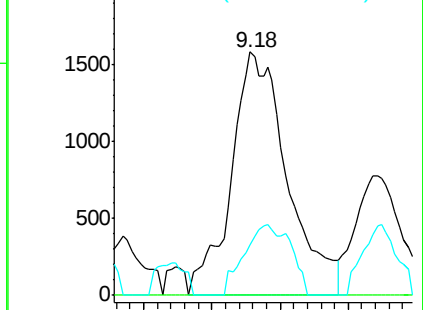
#48
Methvl methacrylate
Concen: 0.699 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN053554.D
Acq: 28 Jan 2019 19:03

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 4526
Ion Ratio Lower Upper
41 100
69 0.0 73.8 110.6#
39 24.0 40.0 60.0#

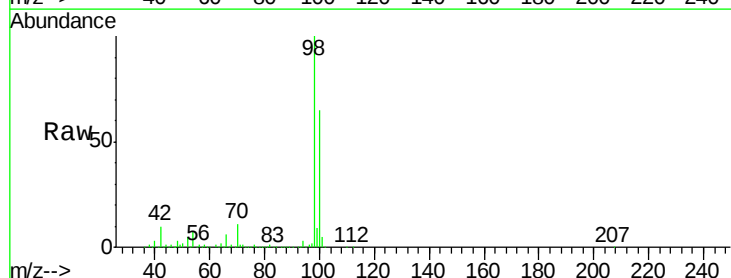


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

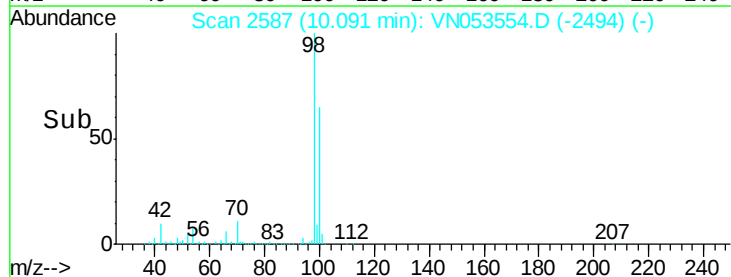
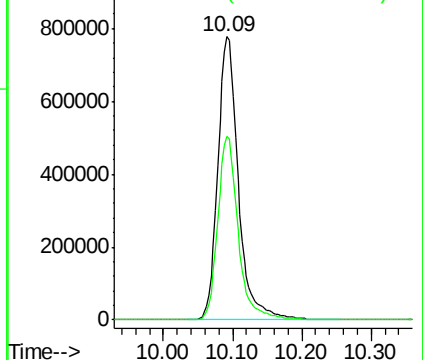


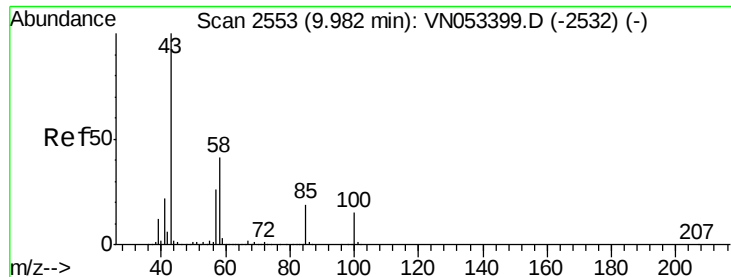
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053554.D
Acq: 28 Jan 2019 19:03

Tgt Ion: 98 Resp: 1601713
Ion Ratio Lower Upper
98 100
100 64.4 51.4 77.0



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

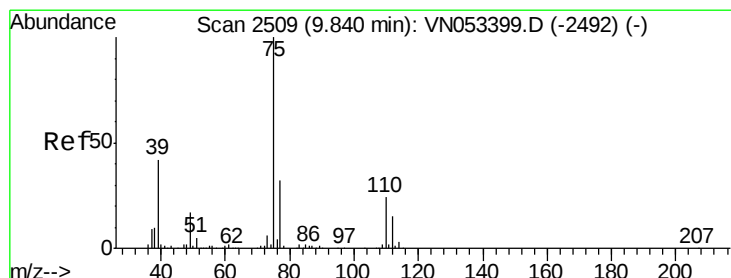
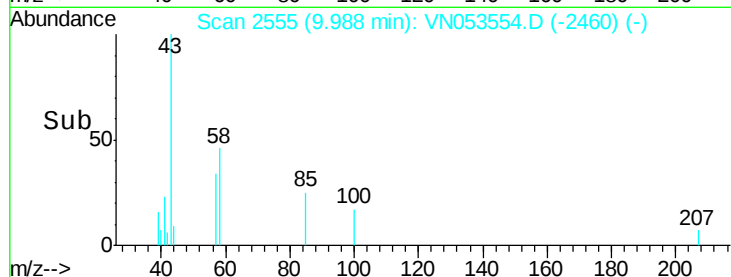
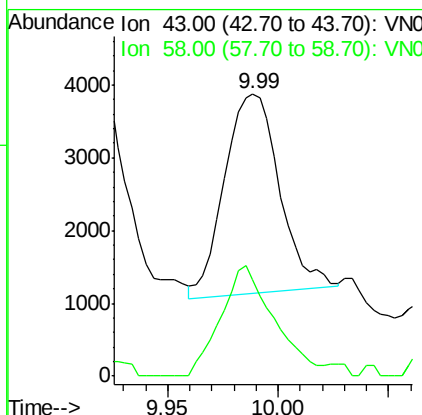
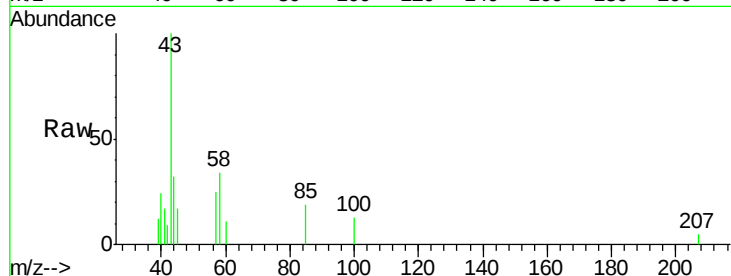




#51
 4-Methyl-2-Pentanone
 Concen: 0.692 ug/l
 RT: 9.99 min Scan# 2555
 Delta R.T. 0.01 min
 Lab File: VN053554.D
 Acq: 28 Jan 2019 19:03

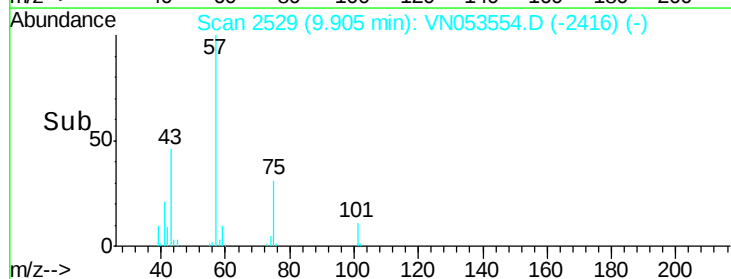
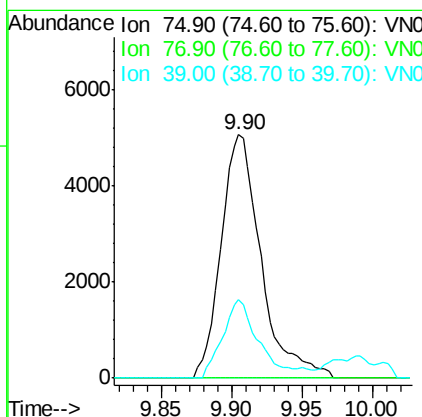
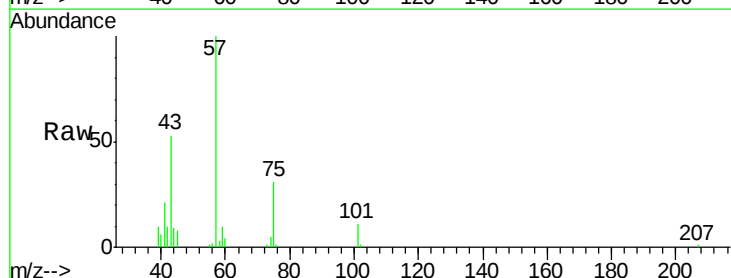
Instrument :
 MSVOA_N
 ClientSampled :

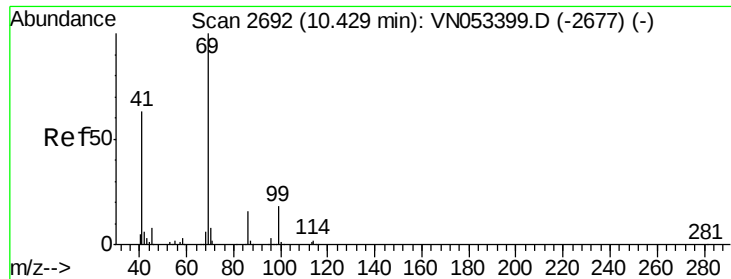
Tot Ion: 43 Resp: 4737
 Ion Ratio Lower Upper
 43 100
 58 54.0 32.8 49.2#



#54
 cis-1,3-Dichloropropene
 Concen: 0.715 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.06 min
 Lab File: VN053554.D
 Acq: 28 Jan 2019 19:03

Tgt Ion: 75 Resp: 10013
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.8 38.6#
 39 32.1 33.4 50.0#





#56

Ethyl methacrylate

Concen: 2.063 ug/l

RT: 10.37 min Scan# 2674

Delta R.T. -0.06 min

Lab File: VN053554.D

Acq: 28 Jan 2019 19:03

Instrument :

MSVOA_N

ClientSampleId :

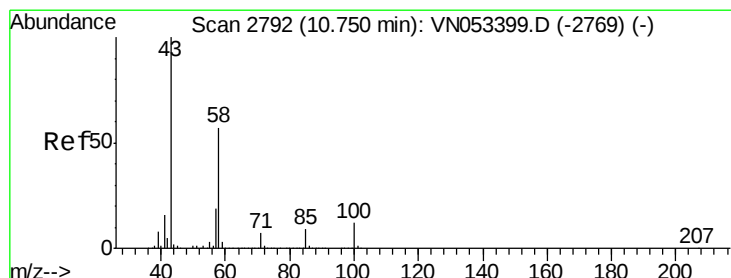
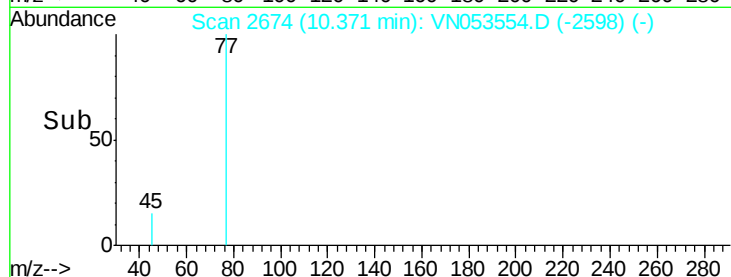
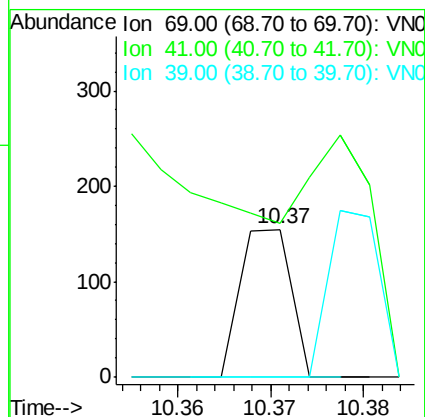
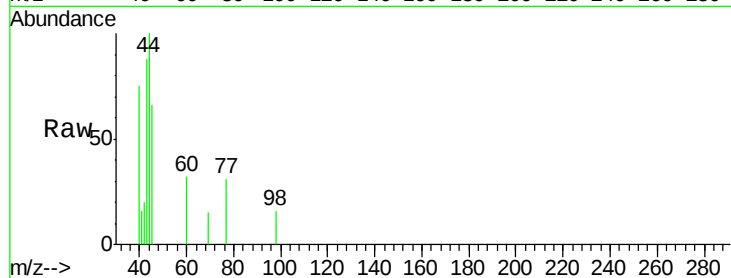
Tot Ion: 69 Resp: 59

Ion Ratio Lower Upper

69 100

41 622.0 49.4 74.0#

39 0.0 23.3 34.9#



#59

2-Hexanone

Concen: 4.850 ug/l

RT: 10.72 min Scan# 2783

Delta R.T. -0.03 min

Lab File: VN053554.D

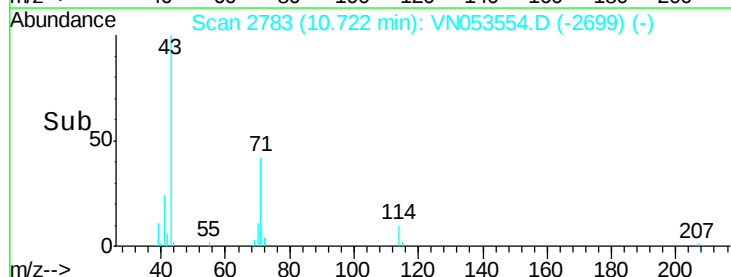
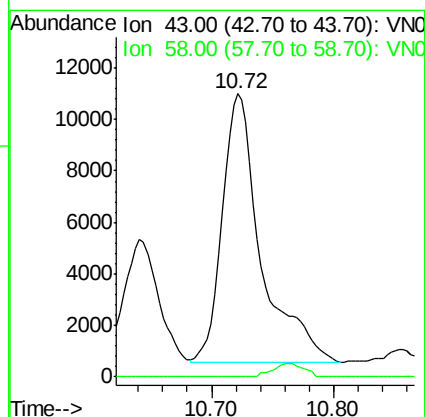
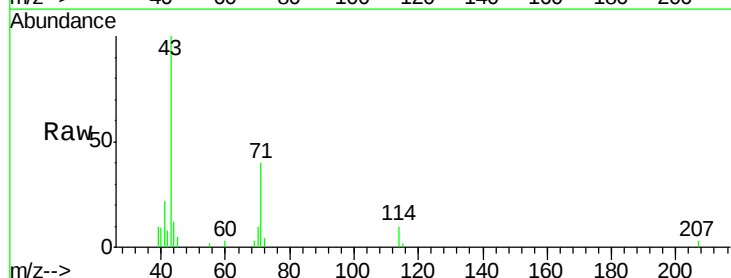
Acq: 28 Jan 2019 19:03

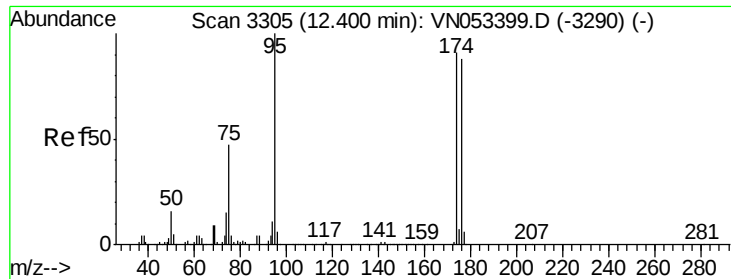
Tgt Ion: 43 Resp: 23303

Ion Ratio Lower Upper

43 100

58 0.0 28.6 85.8#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053554.D

Acq: 28 Jan 2019 19:03

Instrument :

MSVOA_N

ClientSampled :

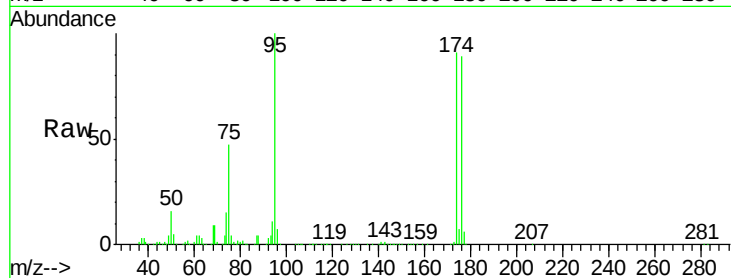
Tot Ion: 95 Resp: 531377

Ion Ratio Lower Upper

95 100

174 92.1 0.0 183.2

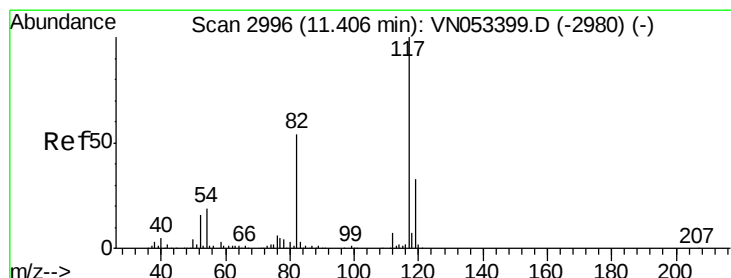
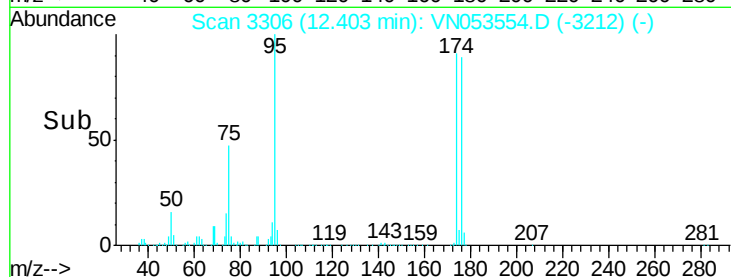
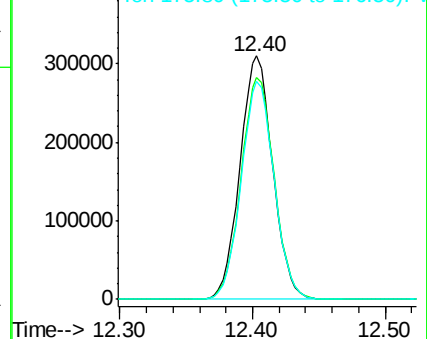
176 89.6 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN053399.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN053399.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN053399.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN053554.D

Acq: 28 Jan 2019 19:03

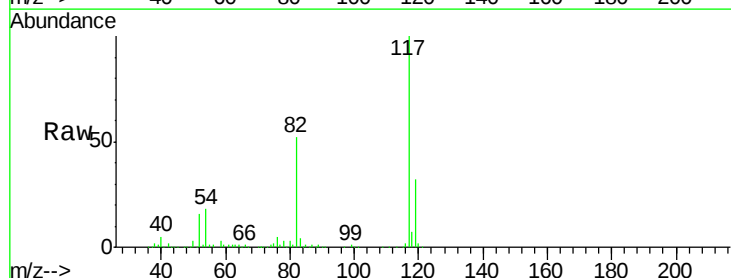
Tgt Ion: 117 Resp: 1196543

Ion Ratio Lower Upper

117 100

82 52.3 42.9 64.3

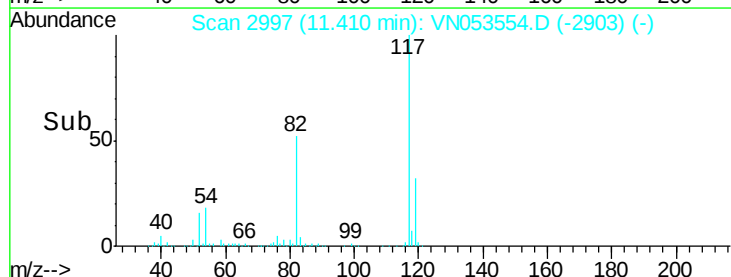
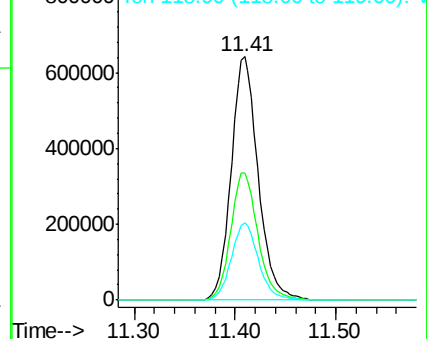
119 31.9 26.0 39.0

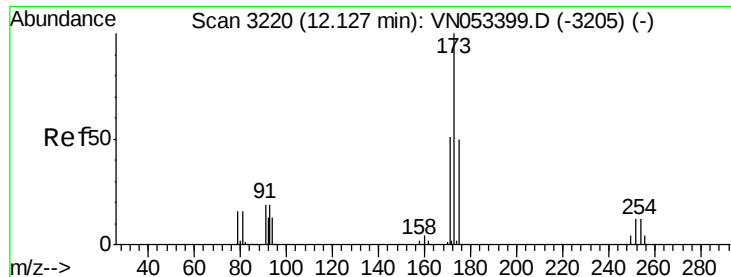


Abundance Ion 116.90 (116.60 to 117.60): VN053399.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN053399.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN053399.D (-2980) (-)





#71

Bromoform

Concen: 0.583 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN053554.D

Acq: 28 Jan 2019 19:03

Instrument :

MSVOA_N

ClientSampleId :

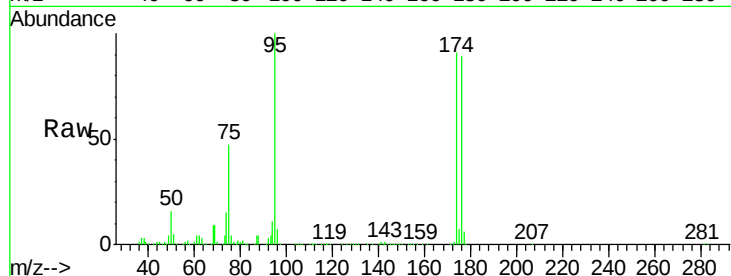
Tot Ion:173 Resp: 3535

Ion Ratio Lower Upper

173 100

175 836.6 24.6 74.0#

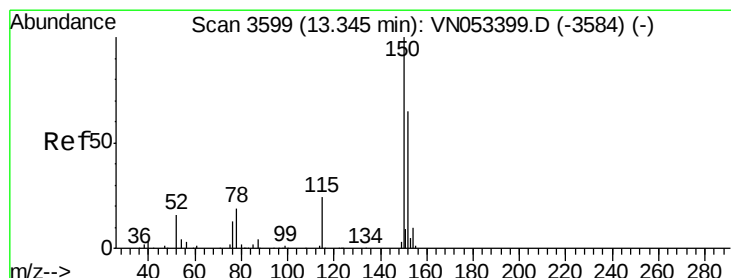
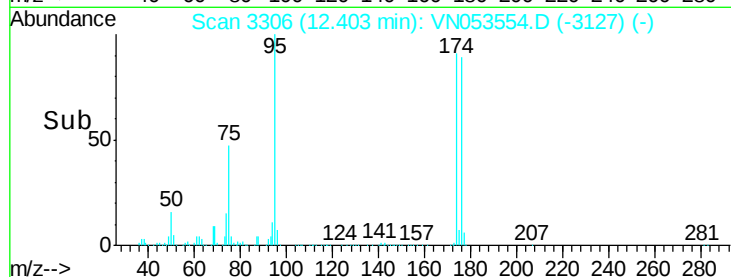
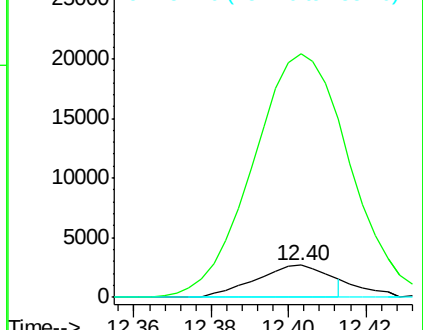
254 0.0 0.2 0.2#



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: VN053554.D

Acq: 28 Jan 2019 19:03

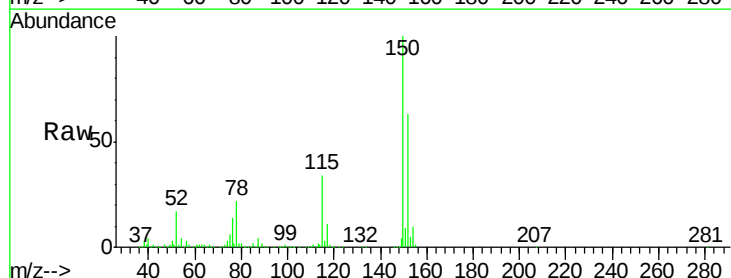
Tgt Ion:152 Resp: 506366

Ion Ratio Lower Upper

152 100

115 55.0 27.8 83.4

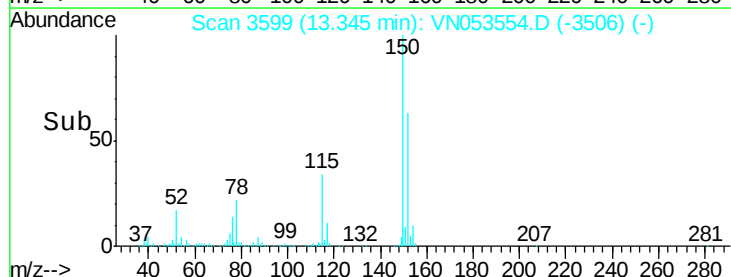
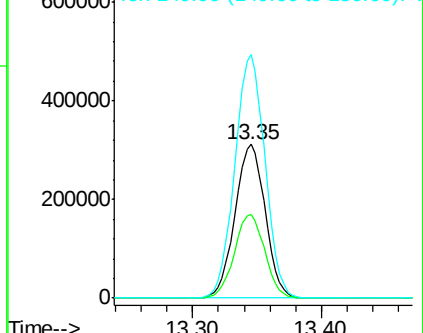
150 158.5 0.0 349.0

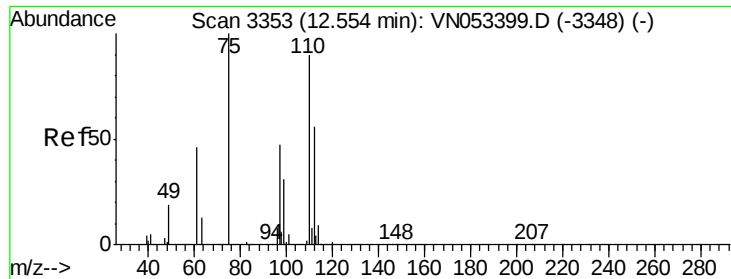


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 36.959 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053554.D

Acq: 28 Jan 2019 19:03

Instrument :

MSVOA_N

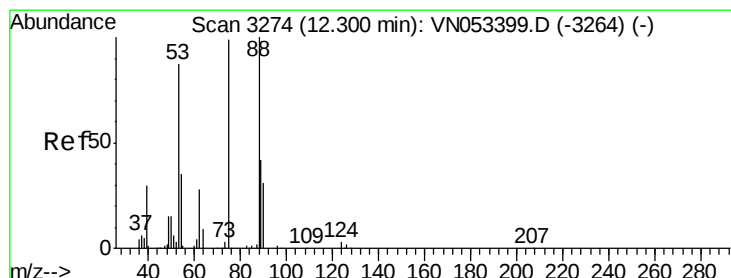
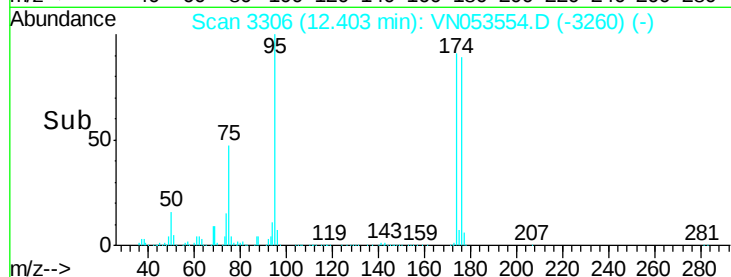
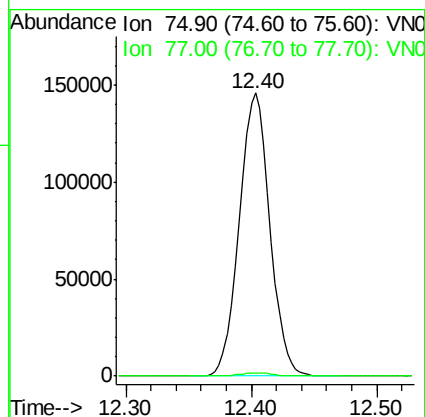
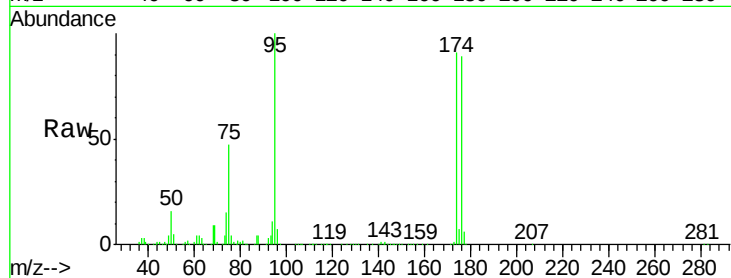
ClientSampleId :

Tot Ion: 75 Resp: 246622

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 91.327 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053554.D

Acq: 28 Jan 2019 19:03

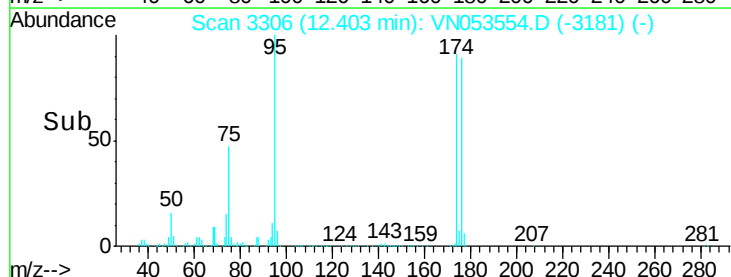
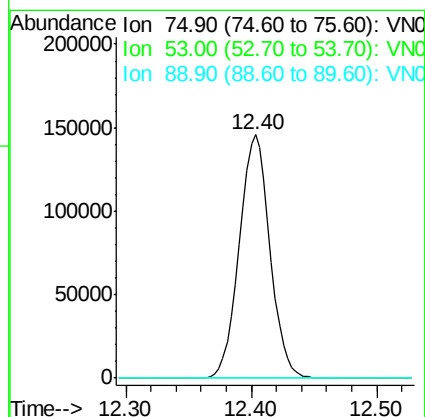
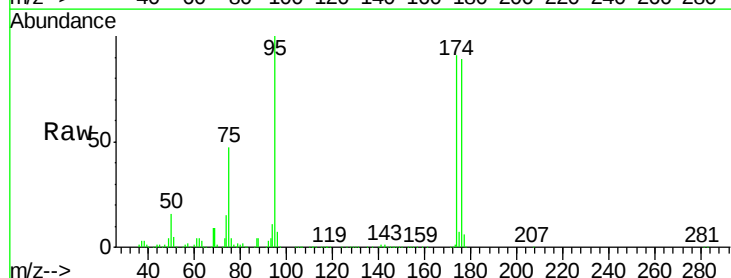
Tgt Ion: 75 Resp: 246622

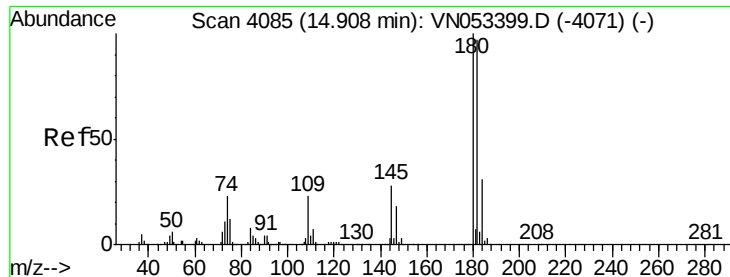
Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

89 0.0 35.6 53.4#

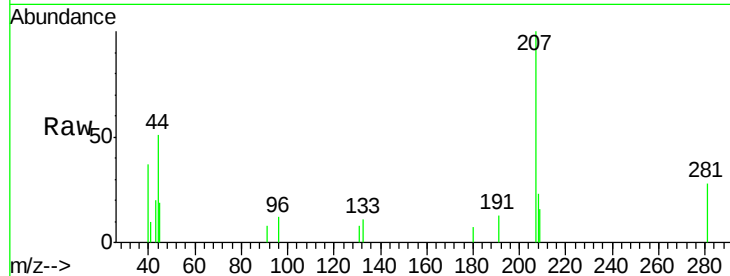




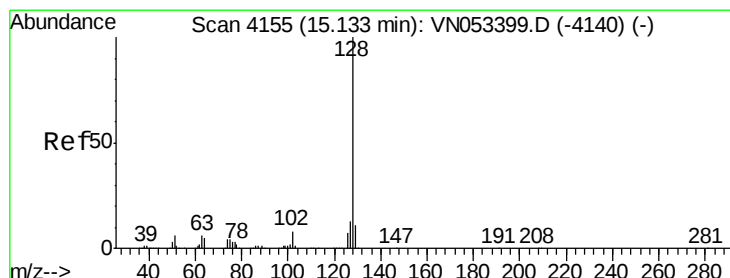
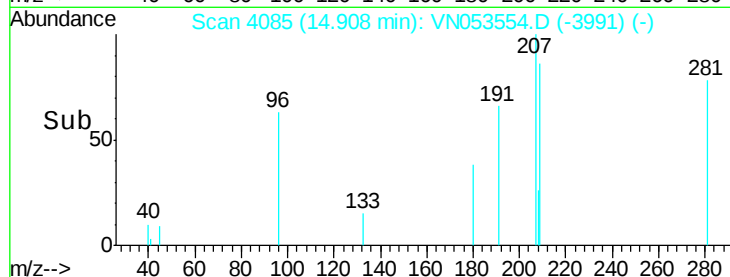
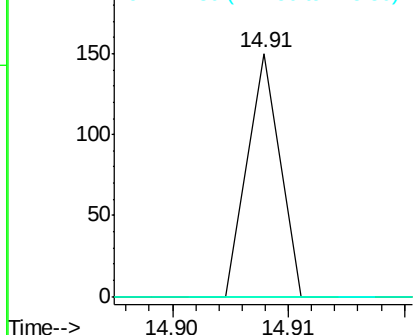
#93
 1,2,4-Trichlorobenzene
 Concen: 2.770 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN053554.D
 Acq: 28 Jan 2019 19:03

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	48.1	144.3#
145	0.0	13.9	41.6#

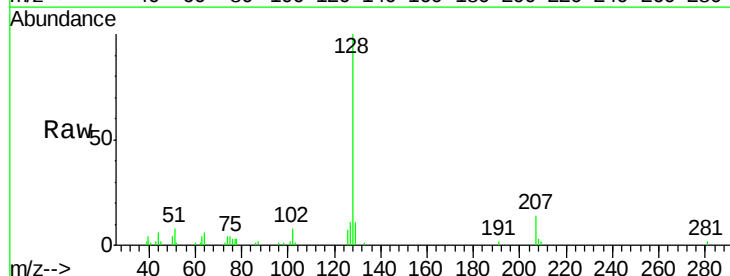


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 6.179 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN053554.D
 Acq: 28 Jan 2019 19:03

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.3	15.5
129	10.8	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

