

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012819\
 Data File : VN053553.D
 Acq On : 28 Jan 2019 18:36
 Operator : JC/SP
 Sample : K1261-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 29 08:22:44 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	882458	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1419397	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1256601	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	511155	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	457166	52.41	ug/l	0.00
Spiked Amount			Recovery	=	104.82%	
35) Dibromofluoromethane	7.59	113	444192	54.83	ug/l	0.00
Spiked Amount			Recovery	=	109.66%	
50) Toluene-d8	10.09	98	1706297	49.81	ug/l	0.00
Spiked Amount			Recovery	=	99.62%	
62) 4-Bromofluorobenzene	12.40	95	546898	45.52	ug/l	0.00
Spiked Amount			Recovery	=	91.04%	

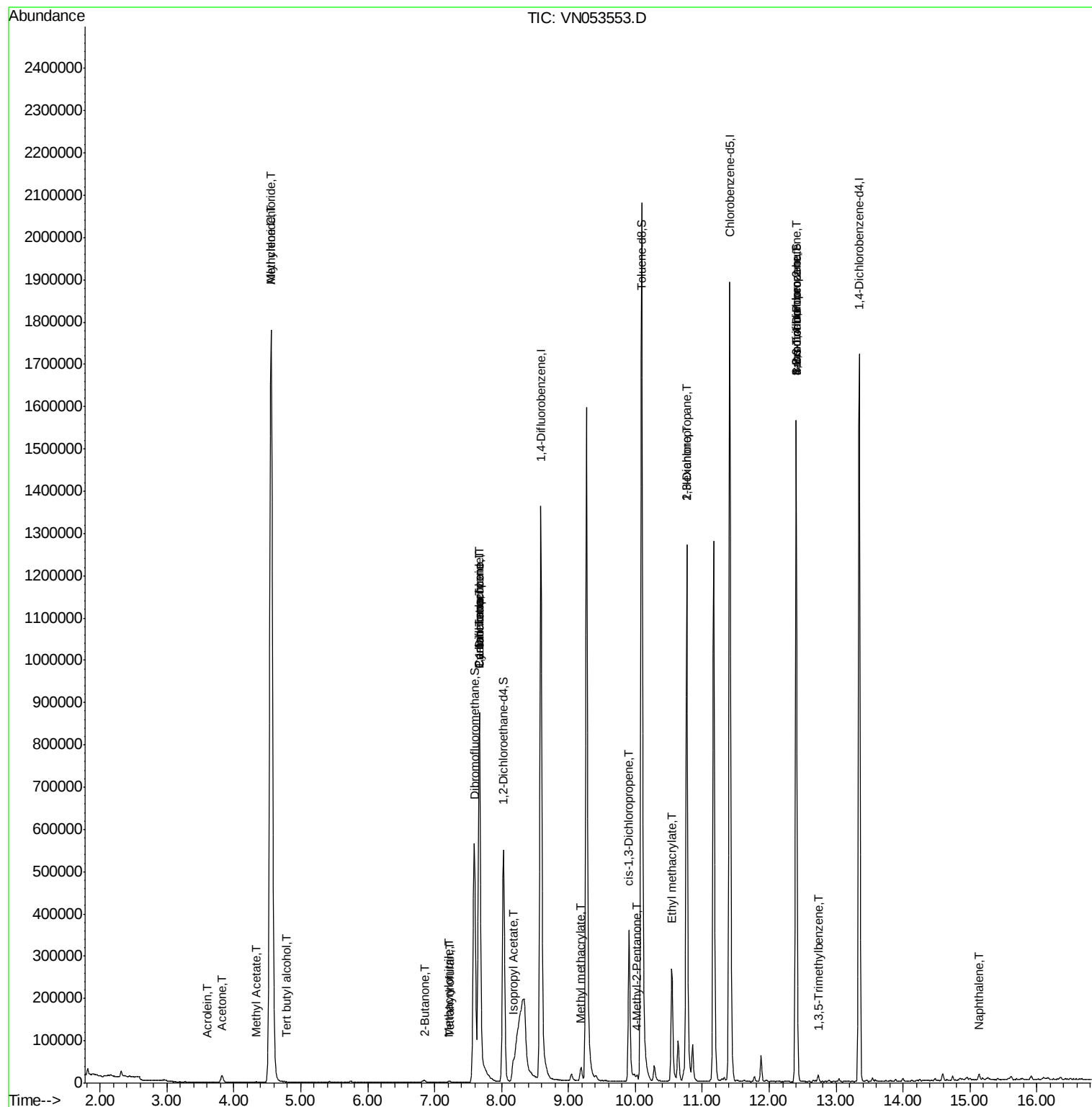
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.78	59	106	0.248	ug/l #	72
13) Acrolein	3.61	56	100	22.847	ug/l #	14
14) Allyl chloride	4.56	41	50216	3.935	ug/l #	27
16) Acetone	3.82	43	25795	12.605	ug/l	95
18) Methyl Acetate	4.34	43	4031	0.585	ug/l #	80
20) Methylene Chloride	4.55	84	1423095	152.319	ug/l	99
25) 2-Butanone	6.85	43	7489	2.375	ug/l	92
29) Tetrahydrofuran	7.23	42	2308	1.124	ug/l #	75
31) Cyclohexane	7.66	56	12597	0.601	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	52131	4.033	ug/l #	47
38) Carbon Tetrachloride	7.67	117	71231	5.820	ug/l #	16
41) Methacrylonitrile	7.20	41	514	0.782	ug/l #	40
43) Isopropyl Acetate	8.17	43	39109	2.925	ug/l #	82
48) Methyl methacrylate	9.18	41	11711	1.696	ug/l #	12
51) 4-Methyl-2-Pentanone	10.02	43	9521	1.304	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	79110	5.296	ug/l #	62
56) Ethyl methacrylate	10.54	69	1177	2.152	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	14813	1.018	ug/l #	43
59) 2-Hexanone	10.77	43	196836	38.410	ug/l #	50
71) Bromoform	12.41	173	3664	0.575	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	253463	37.628	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7342	0.241	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.40	75	253463	92.935	ug/l #	15
95) Naphthalene	15.13	128	12147	4.844	ug/l	97

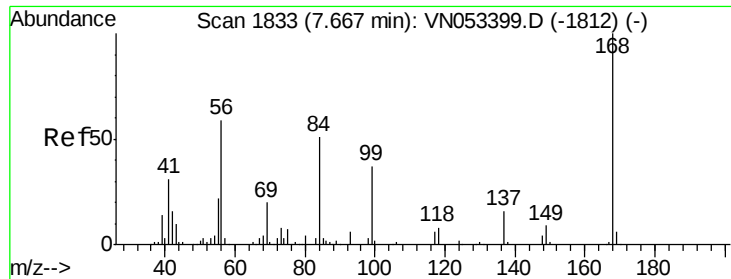
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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: VN053553.D

Acq: 28 Jan 2019 18:36

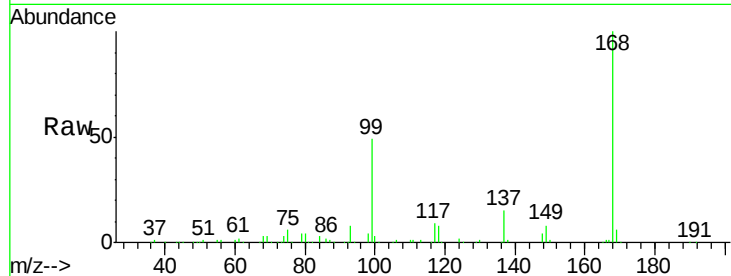
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 882458

Ion Ratio Lower Upper

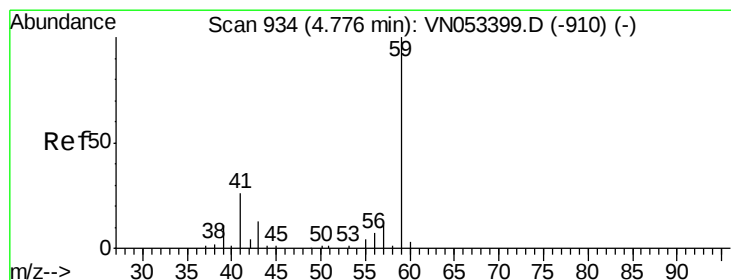
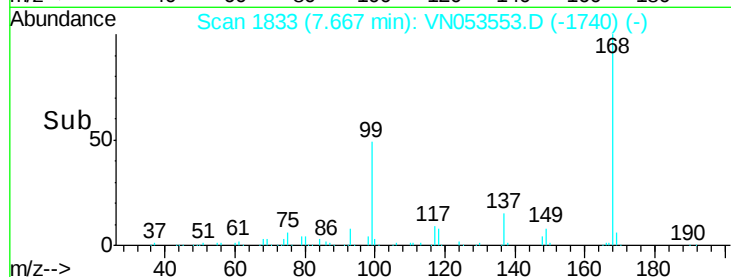
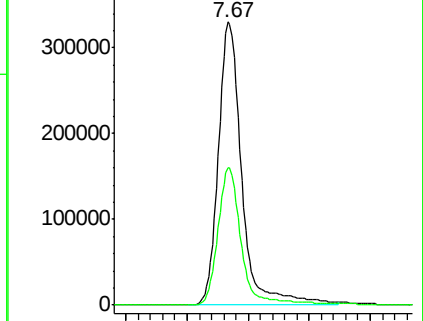
168 100

99 48.7 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: 0.248 ug/l

RT: 4.78 min Scan# 936

Delta R.T. 0.01 min

Lab File: VN053553.D

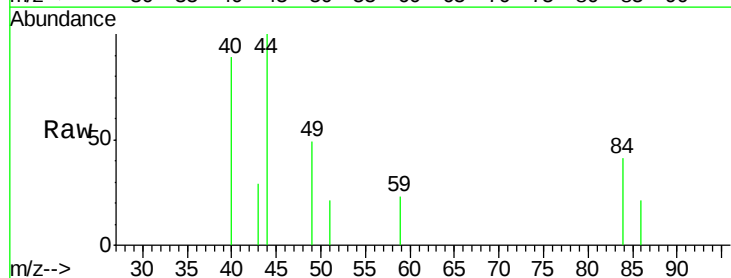
Acq: 28 Jan 2019 18:36

Tgt Ion: 59 Resp: 106

Ion Ratio Lower Upper

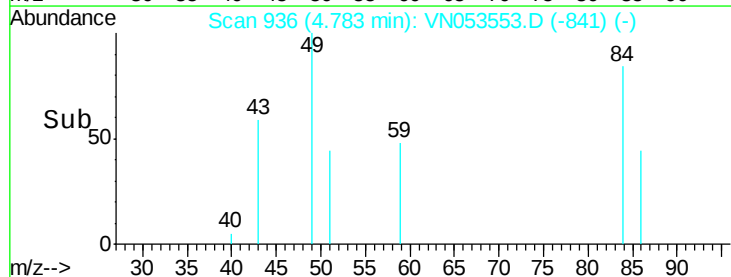
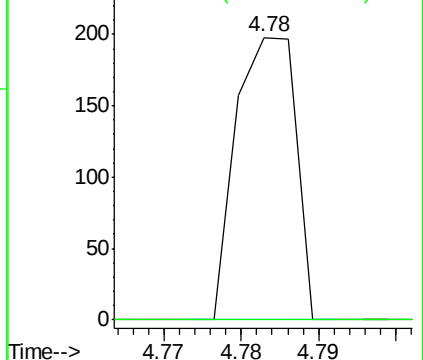
59 100

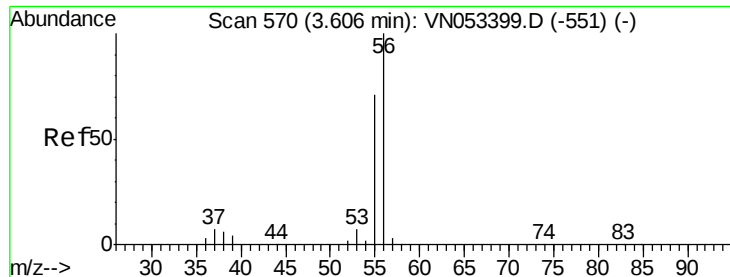
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

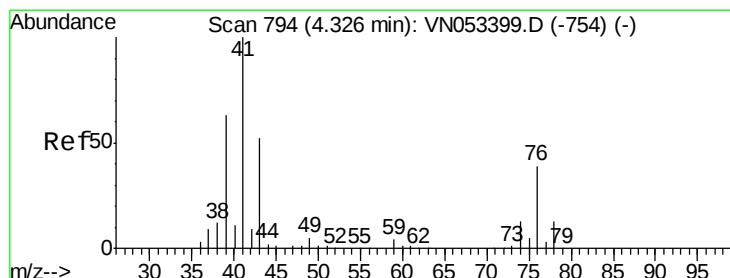
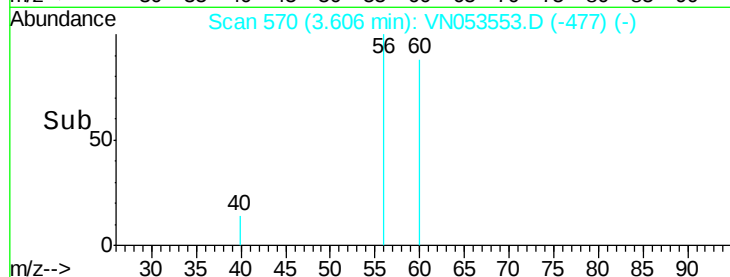
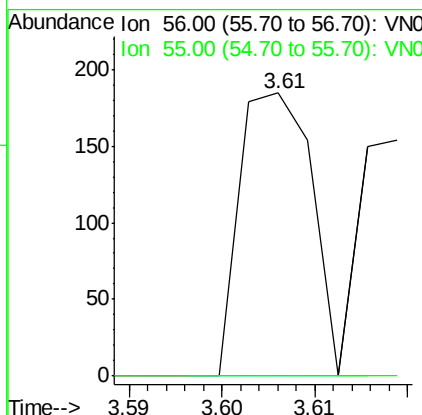
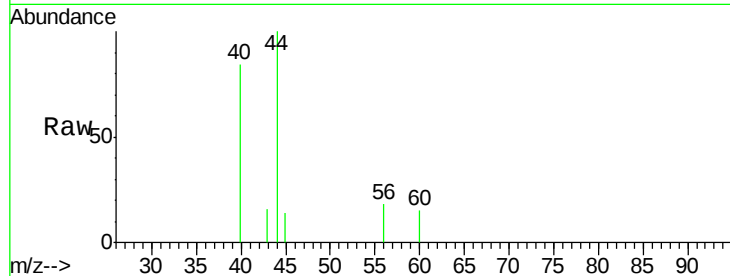




#13
 Acrolein
 Concen: 22.847 ug/l
 RT: 3.61 min Scan# 570
 Delta R.T. 0.00 min
 Lab File: VN053553.D
 Acq: 28 Jan 2019 18:36

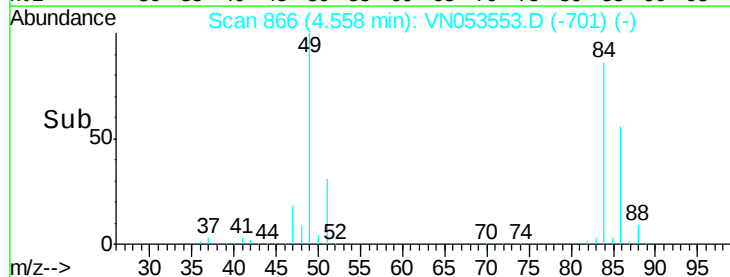
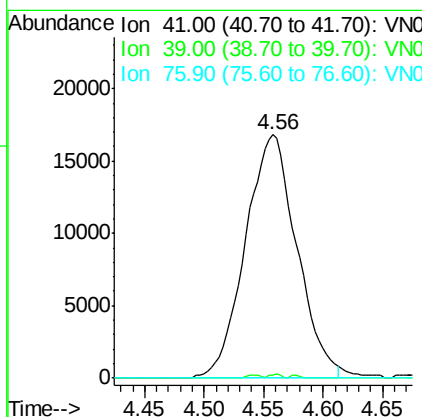
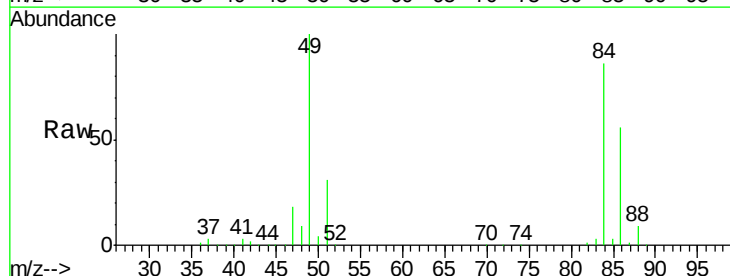
Instrument :
 MSVOA_N
 ClientSampleId :

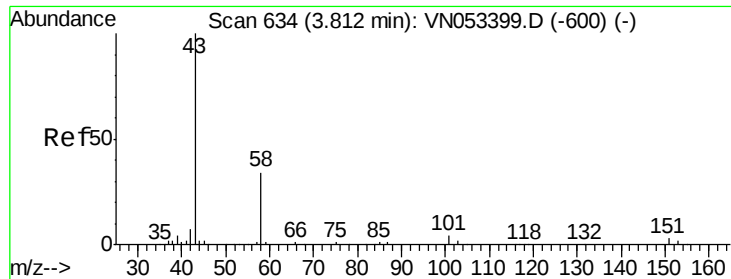
Tot Ion: 56 Resp: 100
 Ion Ratio Lower Upper
 56 100
 55 0.0 57.4 86.0#



#14
 Allyl chloride
 Concen: 3.935 ug/l
 RT: 4.56 min Scan# 866
 Delta R.T. 0.23 min
 Lab File: VN053553.D
 Acq: 28 Jan 2019 18:36

Tgt Ion: 41 Resp: 50216
 Ion Ratio Lower Upper
 41 100
 39 0.3 48.9 73.3#
 76 0.0 29.4 44.2#





#16

Acetone

Concen: 12.605 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053553.D

Acq: 28 Jan 2019 18:36

Instrument :

MSVOA_N

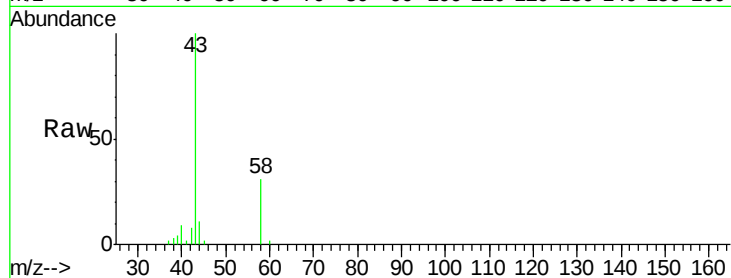
ClientSampled :

Tot Ion: 43 Resp: 25795

Ion Ratio Lower Upper

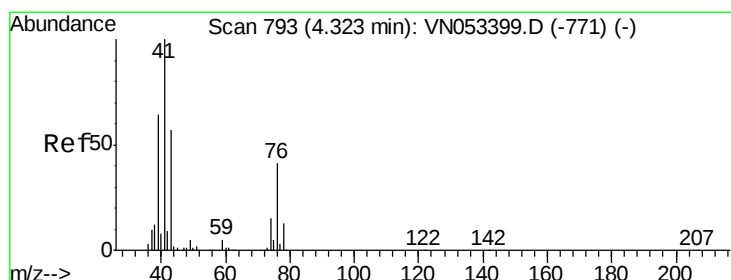
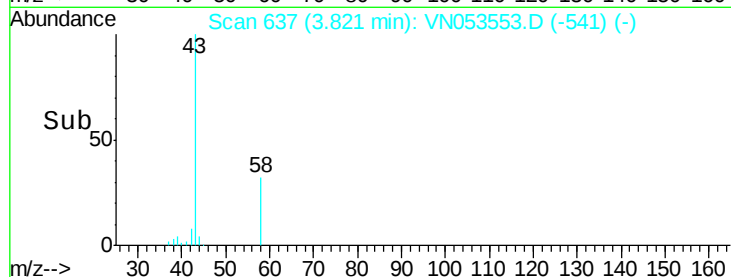
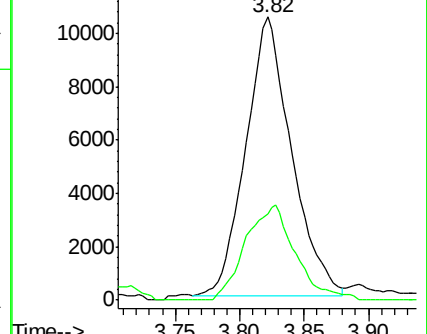
43 100

58 31.2 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: 0.585 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN053553.D

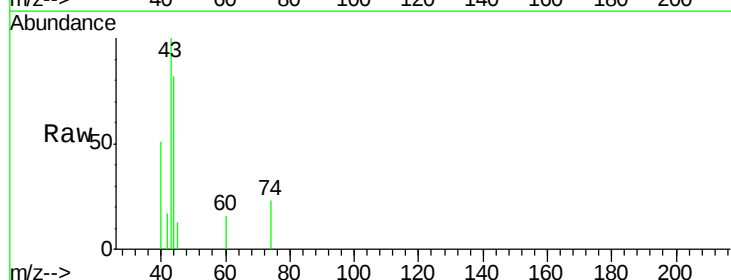
Acq: 28 Jan 2019 18:36

Tgt Ion: 43 Resp: 4031

Ion Ratio Lower Upper

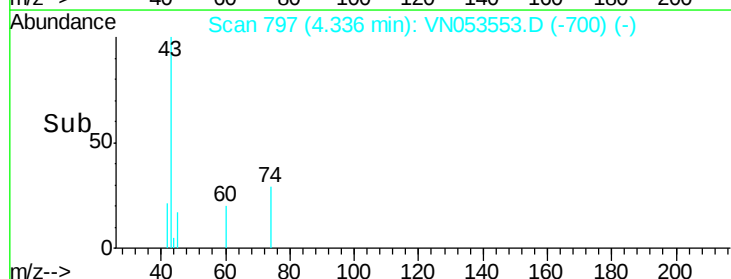
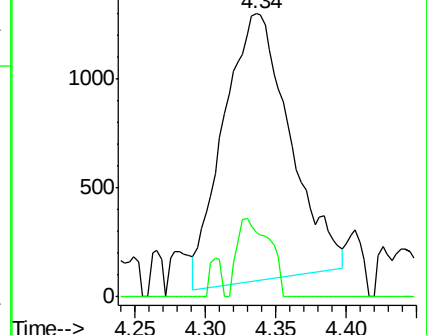
43 100

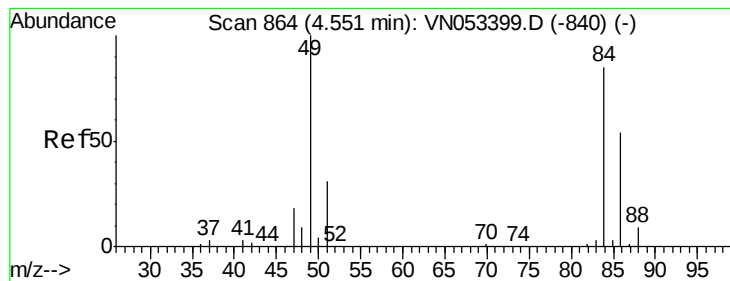
74 14.3 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#20

Methvlene Chloride

Concen: 152.319 ug/l

RT: 4.55 min Scan# 865

Delta R.T. 0.00 min

Lab File: VN053553.D

Acq: 28 Jan 2019 18:36

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 84 Resp: 1423095

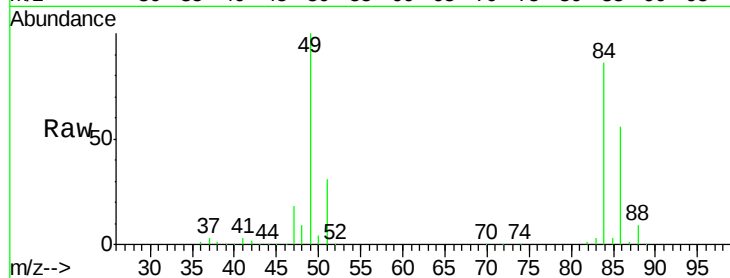
Ion Ratio Lower Upper

84 100

49 116.5 94.3 141.5

51 36.2 29.4 44.2

86 64.9 51.4 77.0

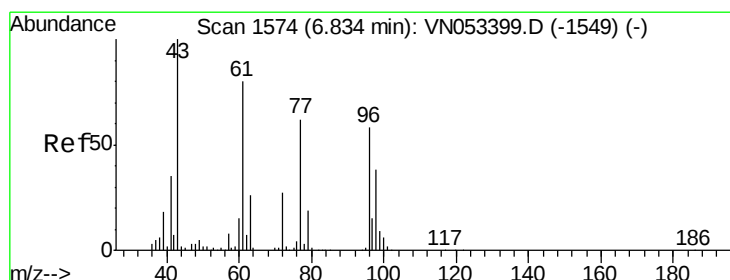
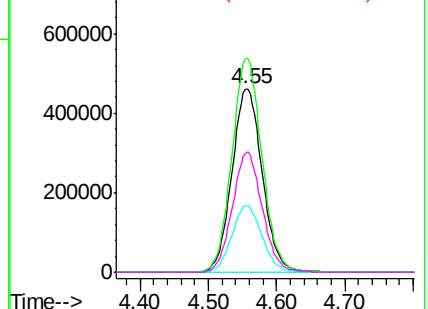
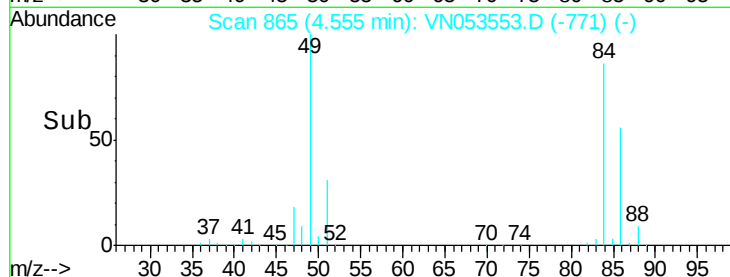


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 2.375 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.01 min

Lab File: VN053553.D

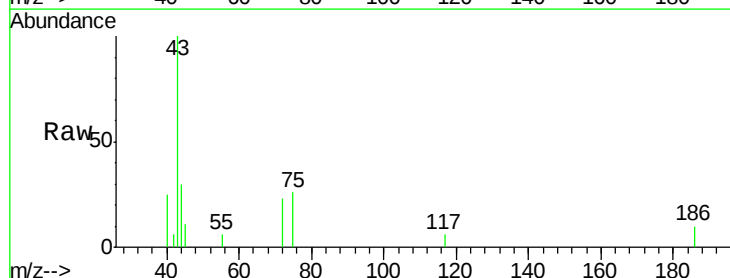
Acq: 28 Jan 2019 18:36

Tgt Ion: 43 Resp: 7489

Ion Ratio Lower Upper

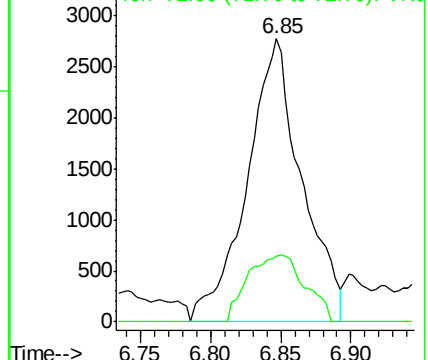
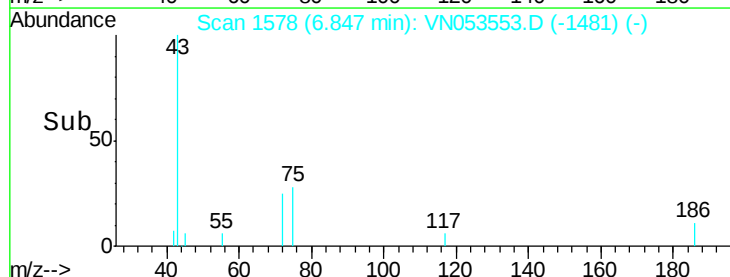
43 100

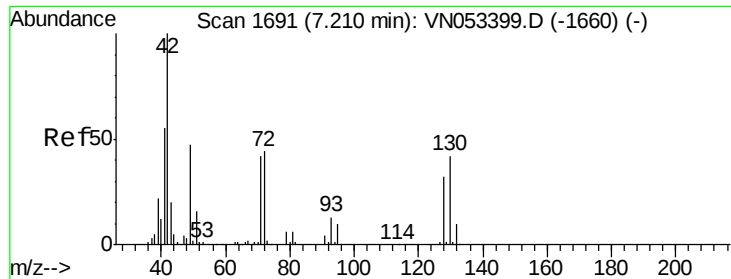
72 23.3 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

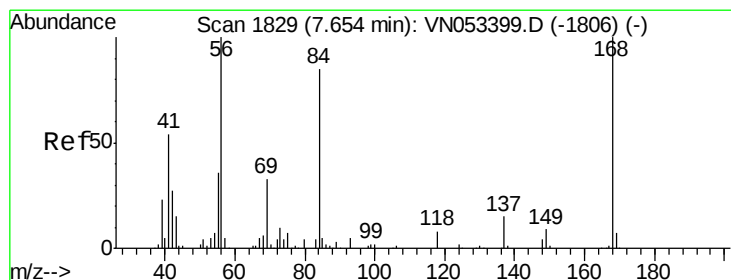
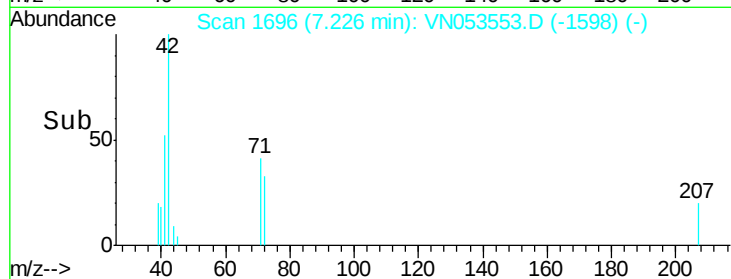
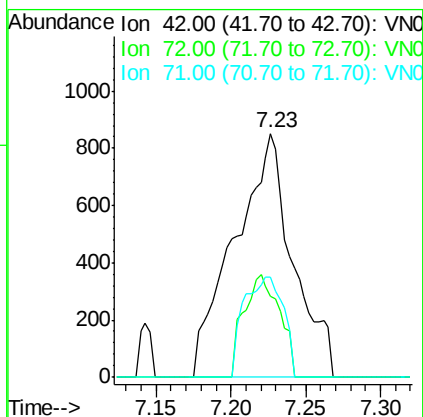
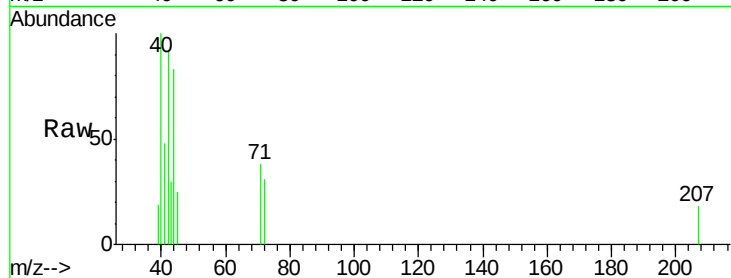




#29
Tetrahydrofuran
Concen: 1.124 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.02 min
Lab File: VN053553.D
Acq: 28 Jan 2019 18:36

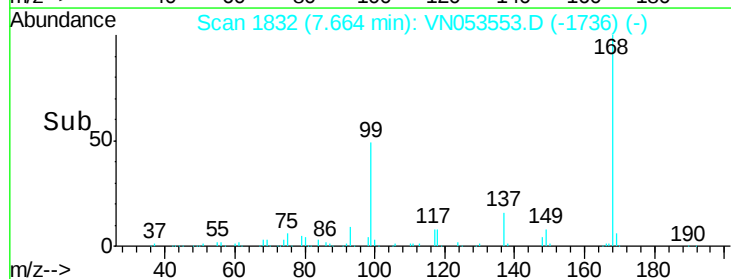
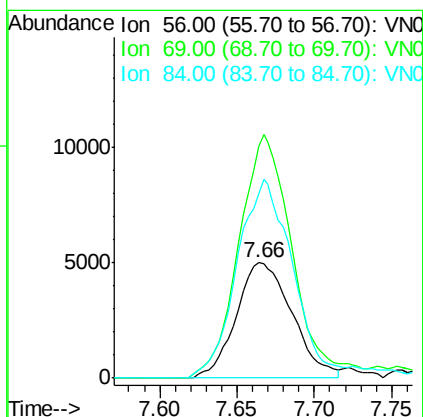
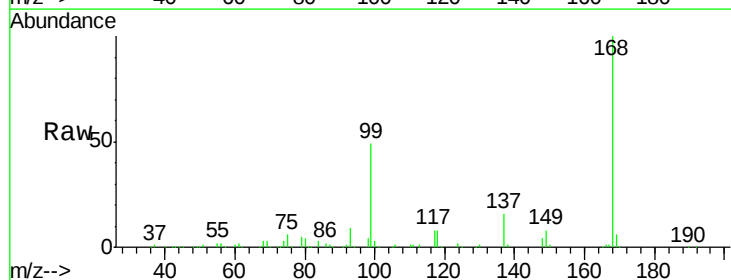
Instrument :
MSVOA_N
ClientSampled :

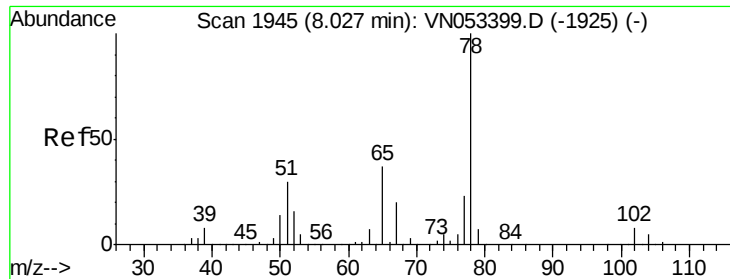
Tot Ion: 42 Resp: 2308
Ion Ratio Lower Upper
42 100
72 25.7 35.2 52.8#
71 27.8 33.0 49.4#



#31
Cyclohexane
Concen: 0.601 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN053553.D
Acq: 28 Jan 2019 18:36

Tgt Ion: 56 Resp: 12597
Ion Ratio Lower Upper
56 100
69 200.7 26.4 39.6#
84 159.5 67.9 101.9#

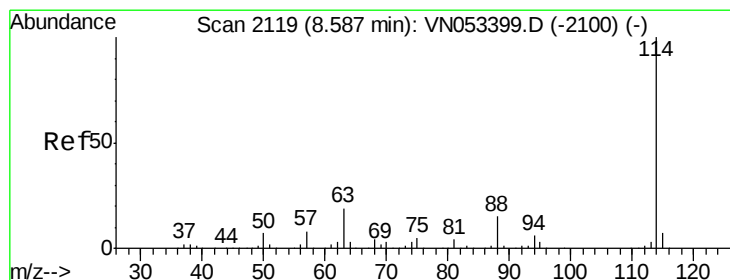
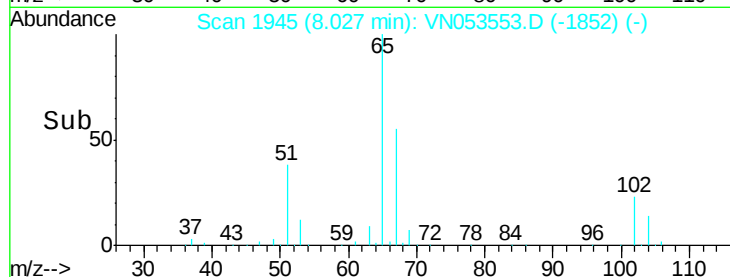
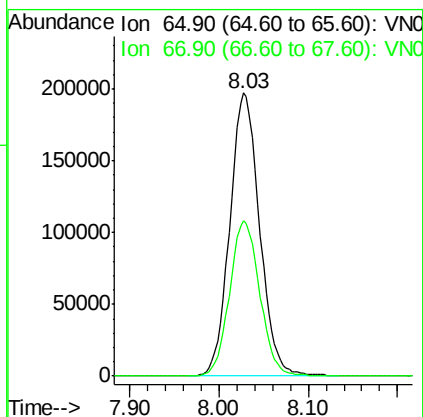
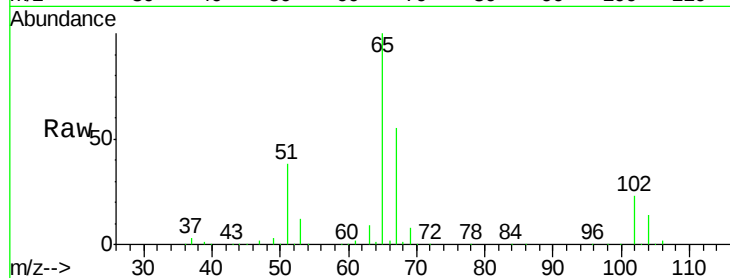




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053553.D
 Acq: 28 Jan 2019 18:36

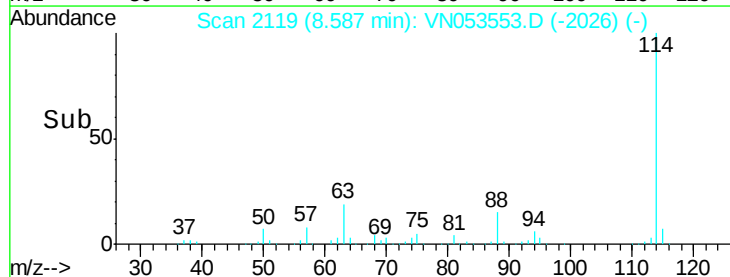
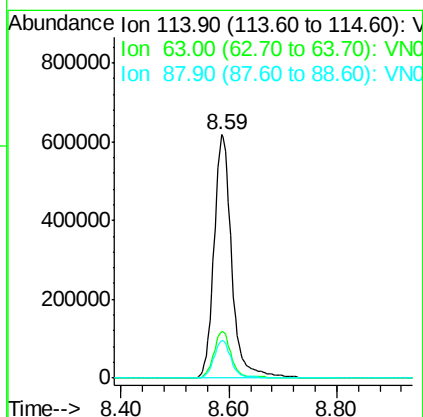
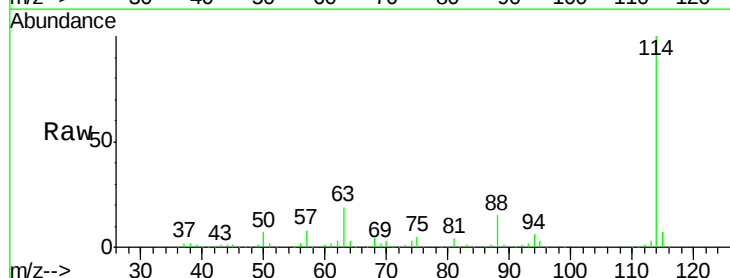
Instrument :
 MSVOA_N
 ClientSampleId :

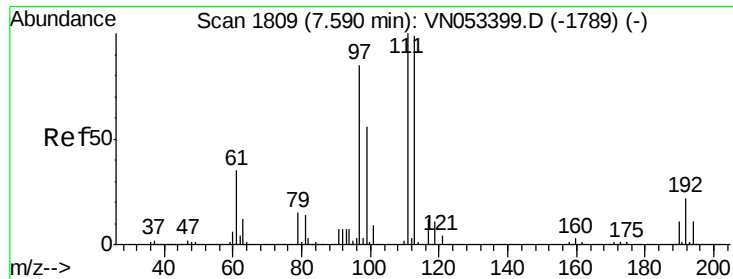
Tot Ion: 65 Resp: 457166
 Ion Ratio Lower Upper
 65 100
 67 55.7 0.0 111.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053553.D
 Acq: 28 Jan 2019 18:36

Tgt Ion: 114 Resp: 1419397
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 38.6
 88 15.3 0.0 30.4

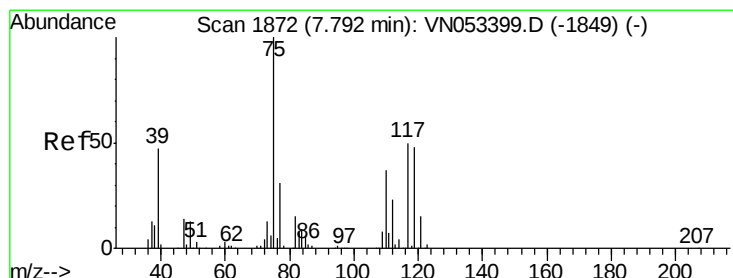
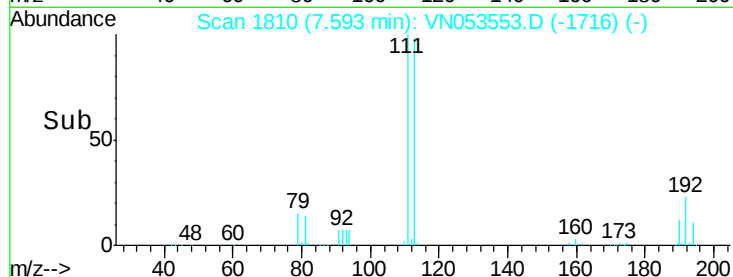
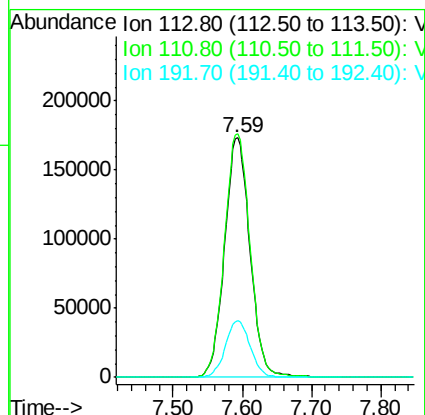
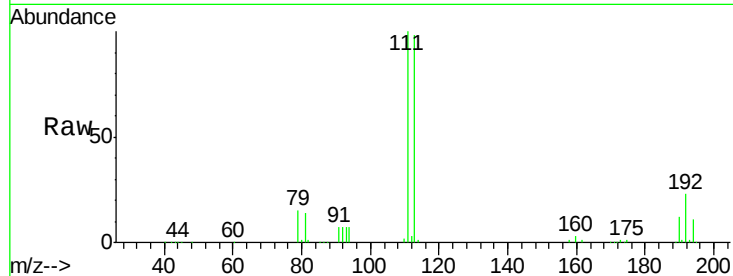




#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN053553.D
Acq: 28 Jan 2019 18:36

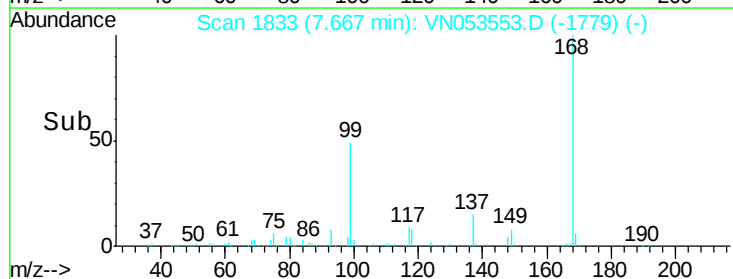
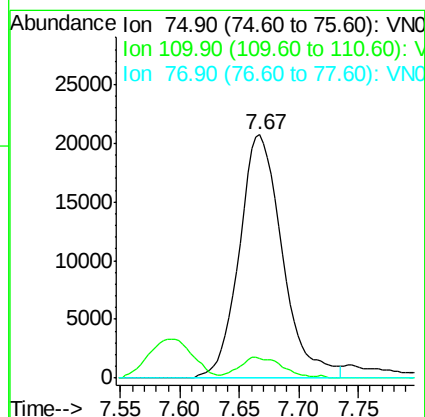
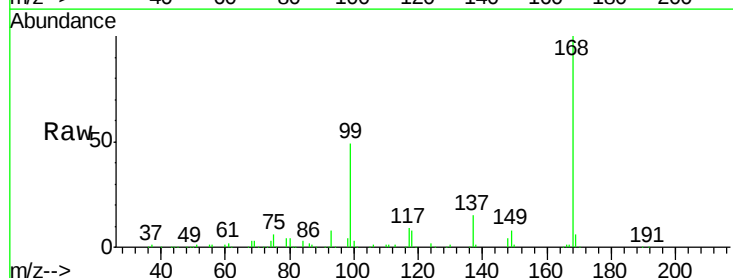
Instrument :
MSVOA_N
ClientSampleId :

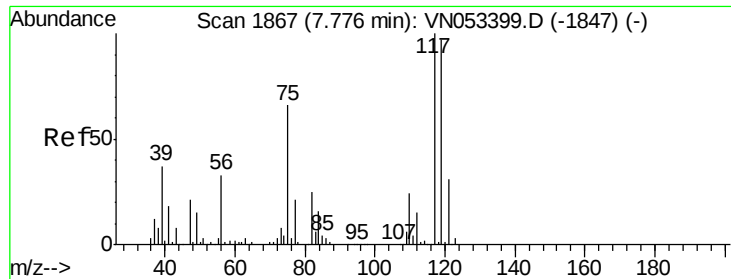
Tot Ion:113 Resp: 444192
Ion Ratio Lower Upper
113 100
111 102.5 81.1 121.7
192 23.1 18.2 27.2



#36
1,1-Dichloropropene
Concen: 4.033 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.13 min
Lab File: VN053553.D
Acq: 28 Jan 2019 18:36

Tgt Ion: 75 Resp: 52131
Ion Ratio Lower Upper
75 100
110 7.4 18.1 54.3#
77 0.0 25.1 37.7#

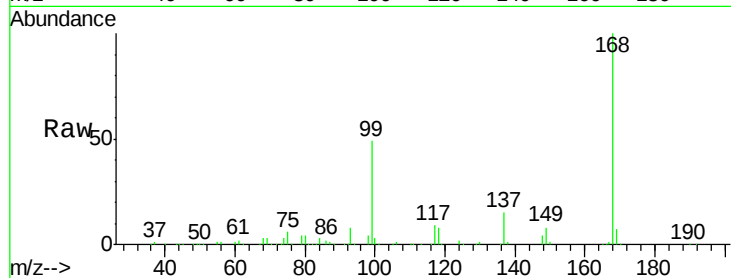




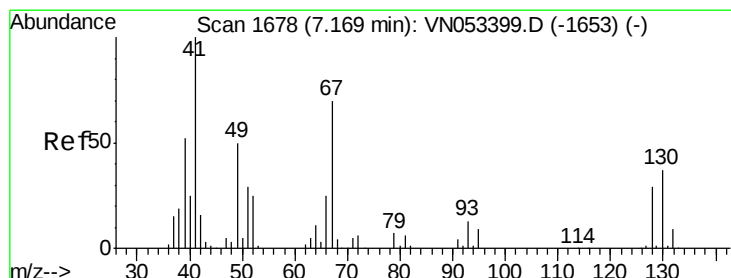
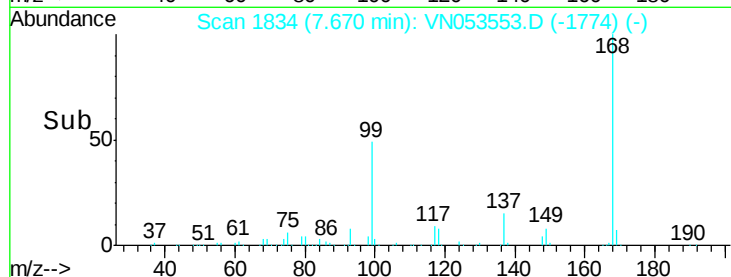
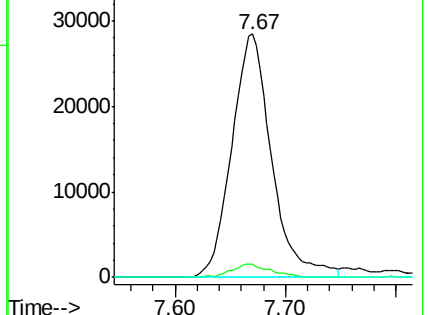
#38
Carbon Tetrachloride
Concen: 5.820 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. -0.11 min
Lab File: VN053553.D
Acq: 28 Jan 2019 18:36

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 71231
Ion Ratio Lower Upper
117 100
119 5.2 77.2 115.8#
121 0.0 24.6 37.0#

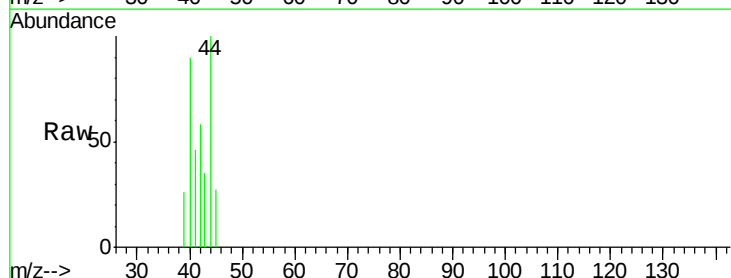


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

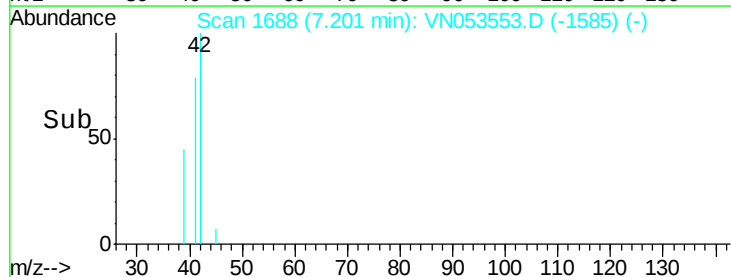
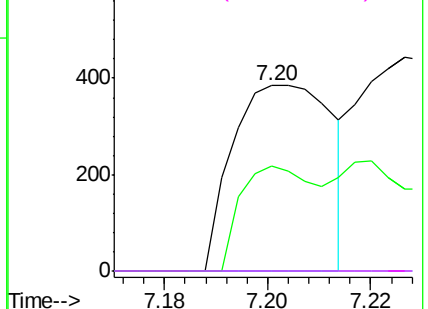


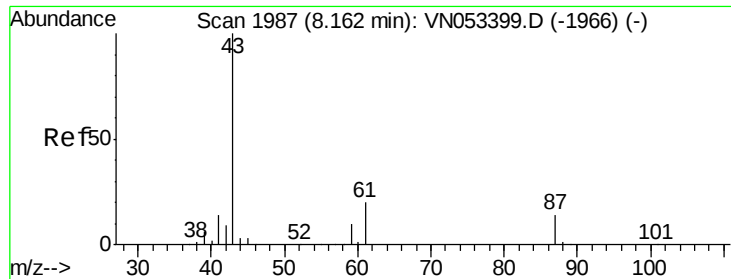
#41
Methacrylonitrile
Concen: 0.782 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.03 min
Lab File: VN053553.D
Acq: 28 Jan 2019 18:36

Tgt Ion: 41 Resp: 514
Ion Ratio Lower Upper
41 100
39 42.8 46.8 70.2#
67 0.0 63.0 94.6#
52 0.0 23.8 35.8#



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





#43

Isopropyl Acetate

Concen: 2.925 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN053553.D

Acq: 28 Jan 2019 18:36

Instrument :

MSVOA_N

ClientSampleId :

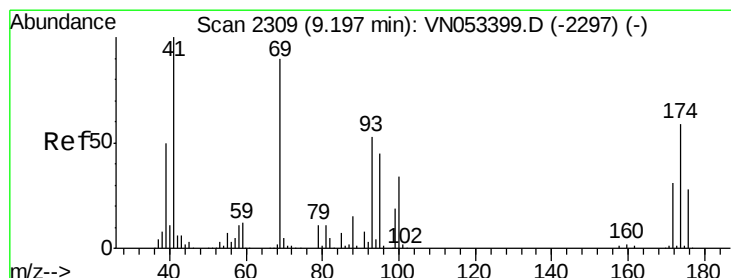
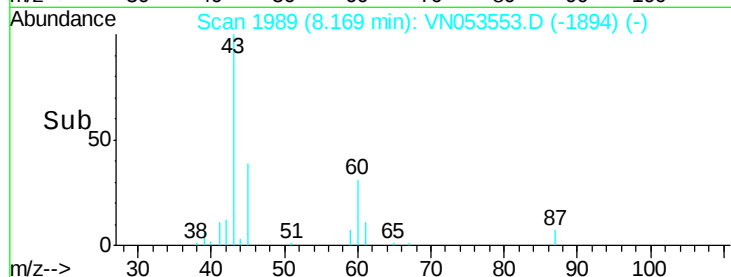
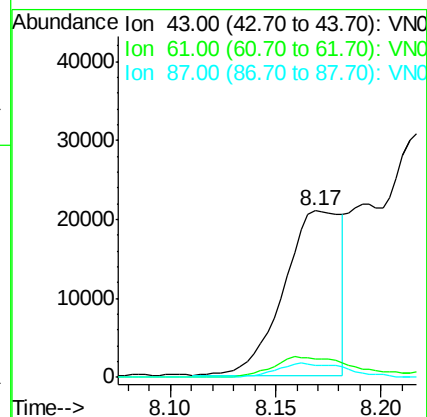
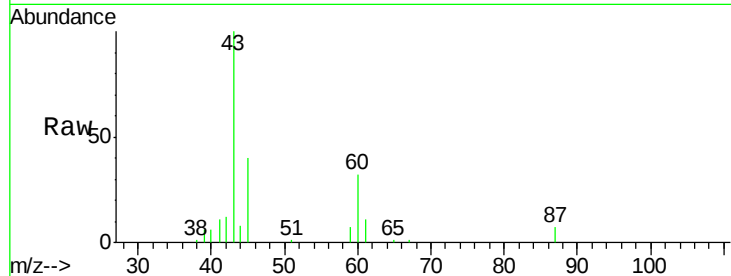
Tot Ion: 43 Resp: 39109

Ion Ratio Lower Upper

43 100

61 17.5 23.9 35.9#

87 10.5 11.0 16.6#



#48

Methyl methacrylate

Concen: 1.696 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN053553.D

Acq: 28 Jan 2019 18:36

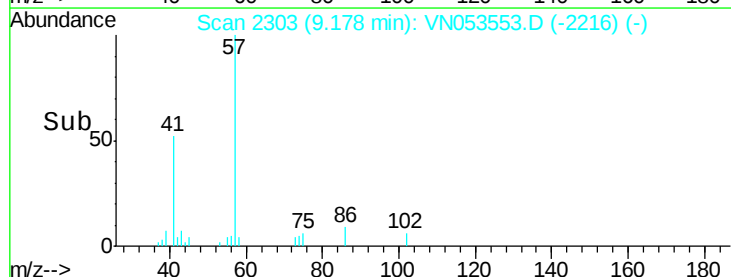
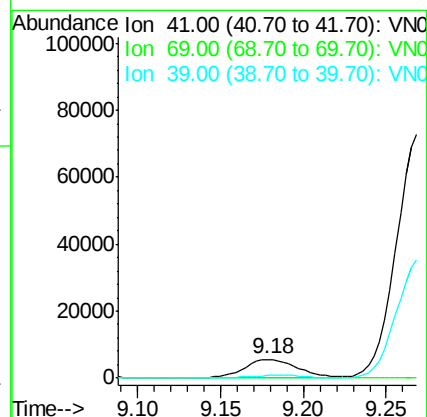
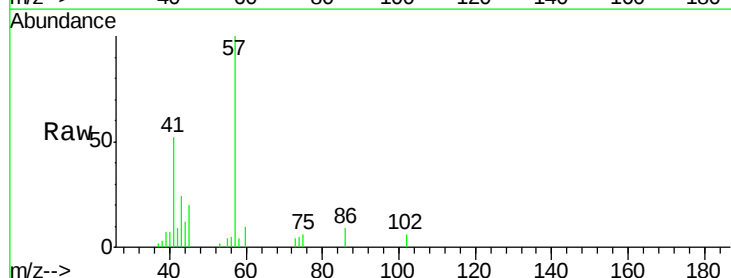
Tgt Ion: 41 Resp: 11711

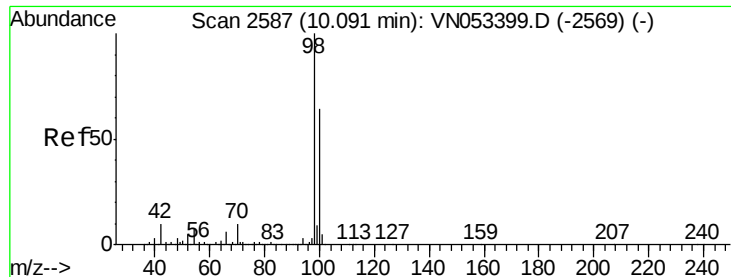
Ion Ratio Lower Upper

41 100

69 0.0 73.8 110.6#

39 0.0 40.0 60.0#





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053553.D

Acq: 28 Jan 2019 18:36

Instrument :

MSVOA_N

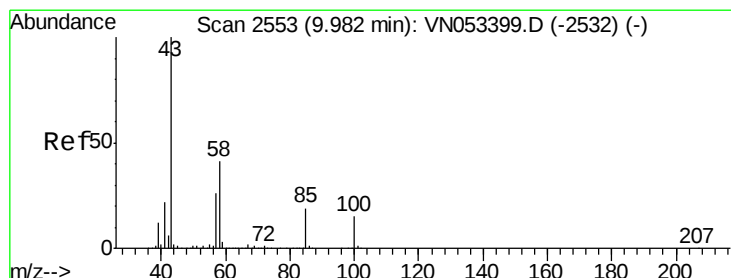
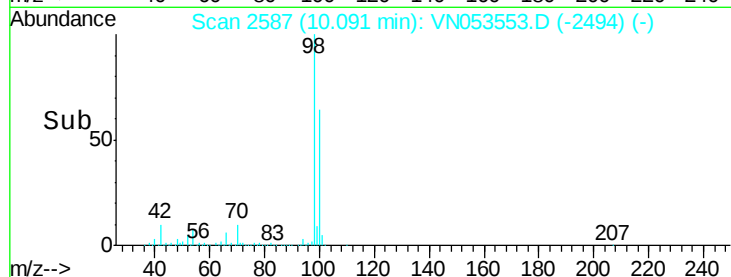
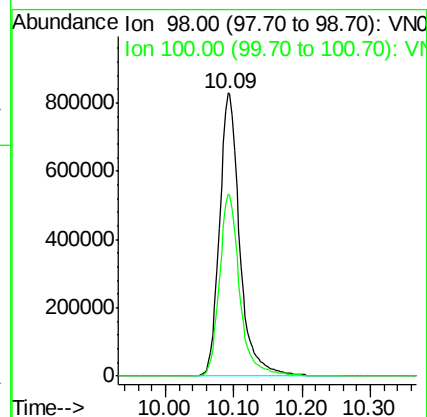
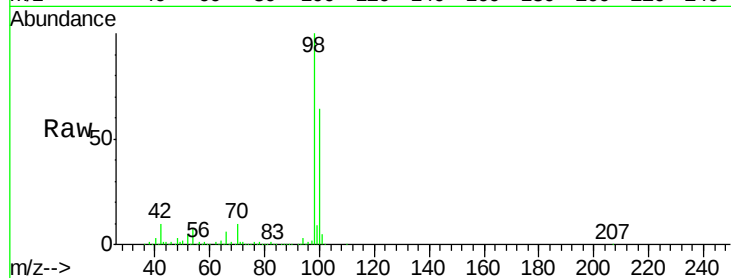
ClientSampleId :

Tot Ion: 98 Resp: 1706297

Ion Ratio Lower Upper

98 100

100 64.3 51.4 77.0



#51

4-Methyl-2-Pentanone

Concen: 1.304 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053553.D

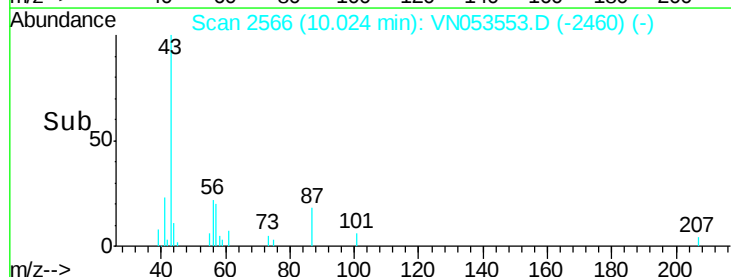
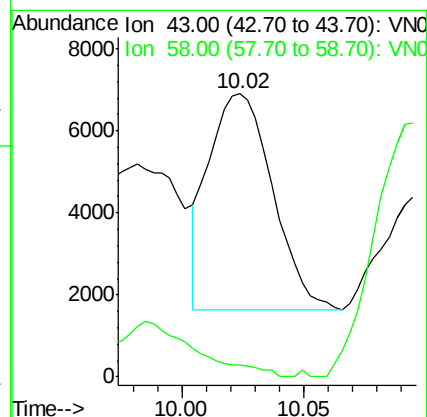
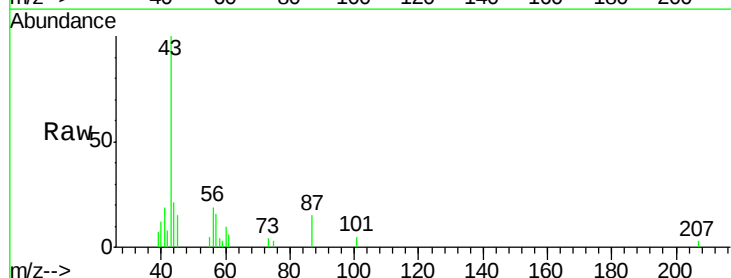
Acq: 28 Jan 2019 18:36

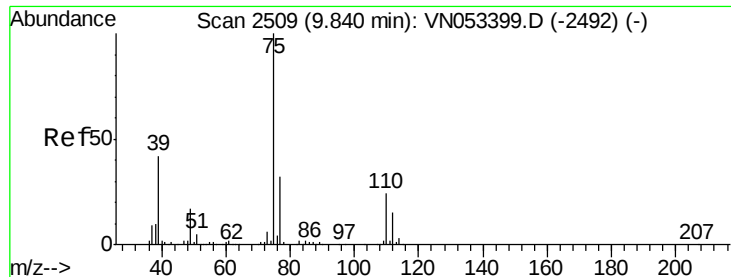
Tgt Ion: 43 Resp: 9521

Ion Ratio Lower Upper

43 100

58 0.0 32.8 49.2#





#54

cis-1,3-Dichloropropene

Concen: 5.296 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN053553.D

Acq: 28 Jan 2019 18:36

Instrument :
MSVOA_N
ClientSampled :

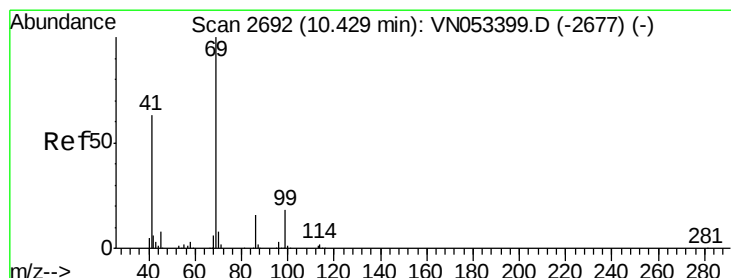
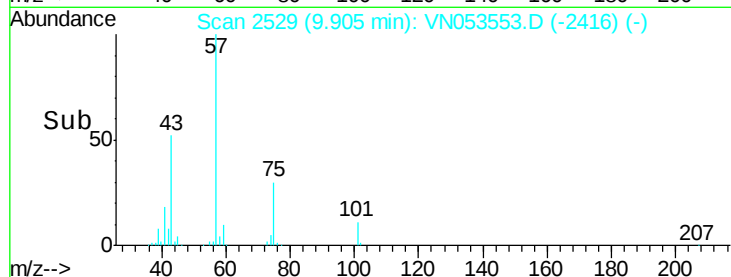
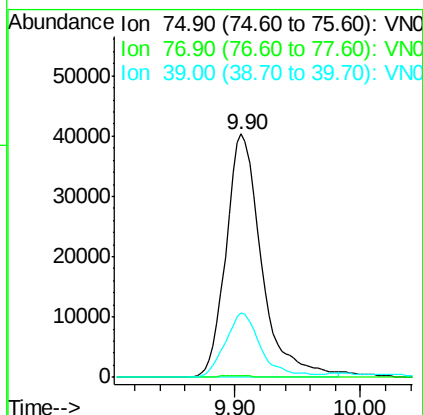
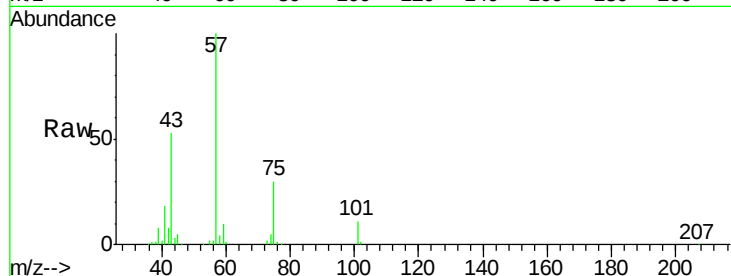
Tot Ion: 75 Resp: 79110

Ion Ratio Lower Upper

75 100

77 0.6 25.8 38.6#

39 26.3 33.4 50.0#



#56

Ethyl methacrylate

Concen: 2.152 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN053553.D

Acq: 28 Jan 2019 18:36

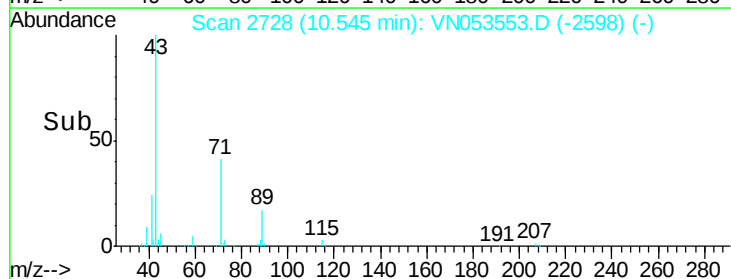
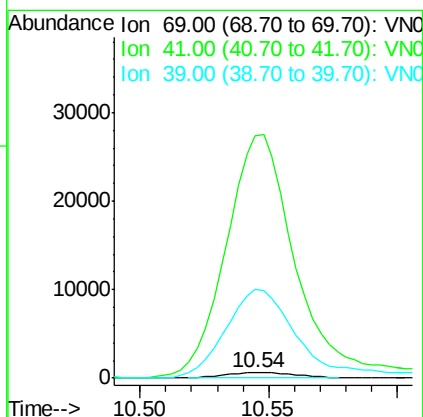
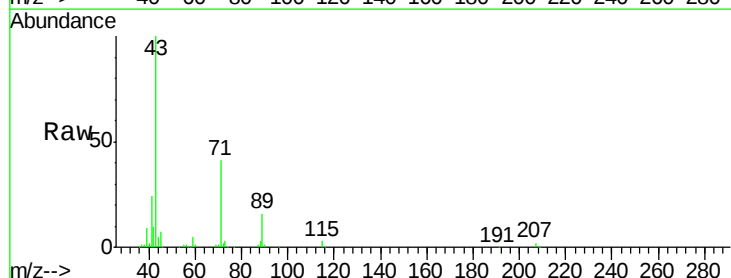
Tgt Ion: 69 Resp: 1177

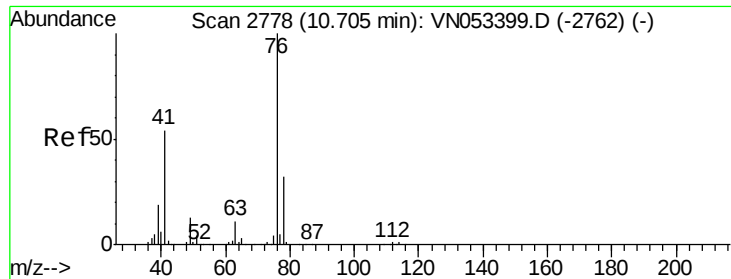
Ion Ratio Lower Upper

69 100

41 4420.1 49.4 74.0#

39 1690.2 23.3 34.9#

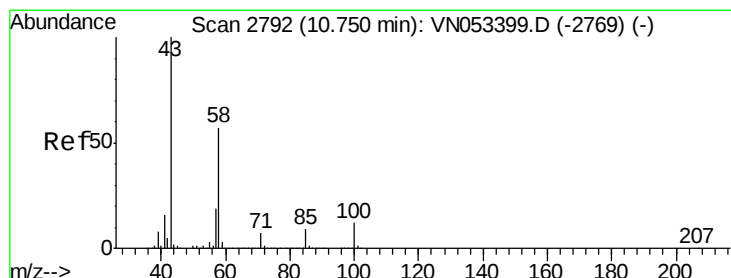
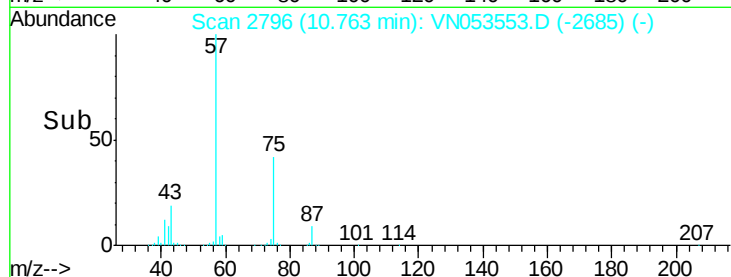
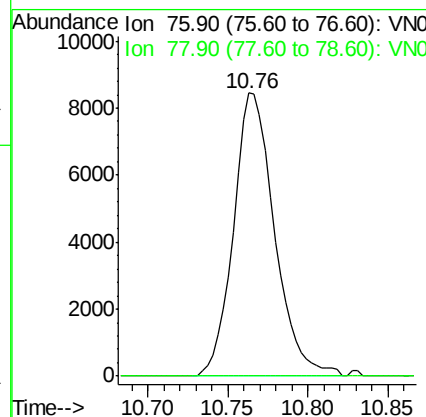
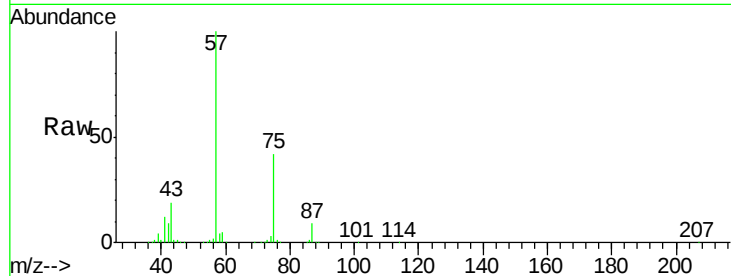




#57
 1,3-Dichloropropane
 Concen: 1.018 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN053553.D
 Acq: 28 Jan 2019 18:36

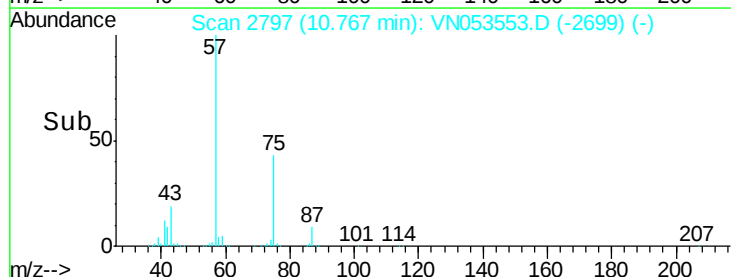
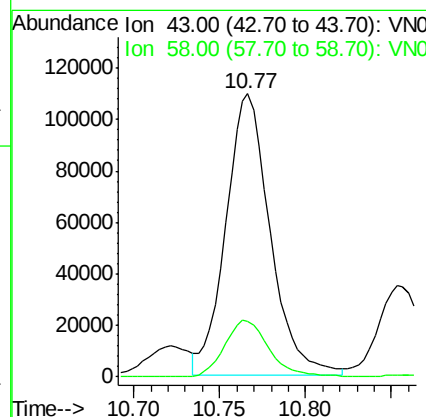
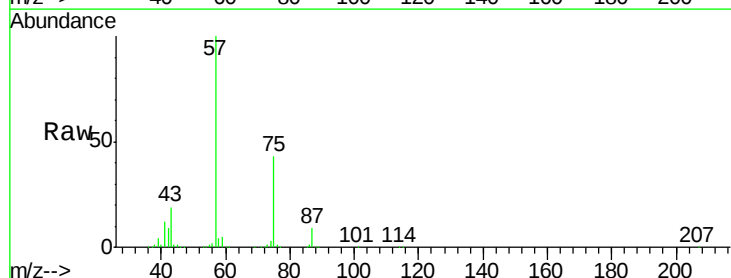
Instrument :
 MSVOA_N
 ClientSampleId :

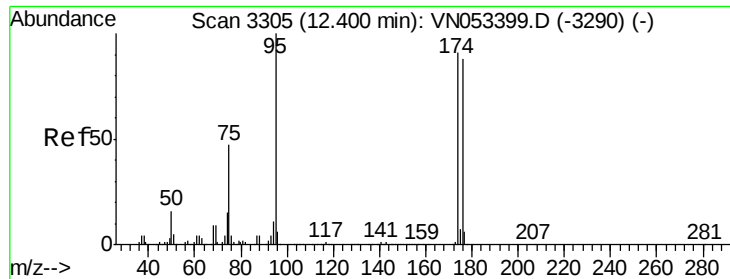
Tot Ion: 76 Resp: 14813
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 38.410 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.02 min
 Lab File: VN053553.D
 Acq: 28 Jan 2019 18:36

Tgt Ion: 43 Resp: 196836
 Ion Ratio Lower Upper
 43 100
 58 20.4 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: VN053553.D

Acq: 28 Jan 2019 18:36

Instrument :

MSVOA_N

ClientSampleId :

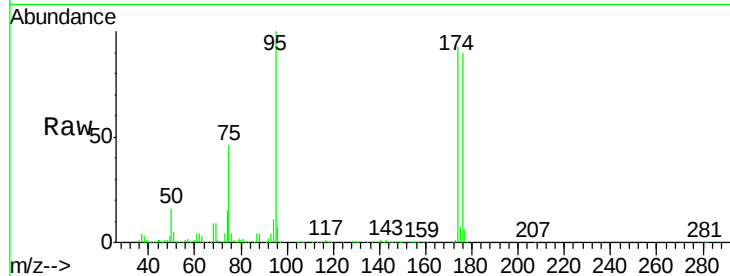
Tot Ion: 95 Resp: 546898

Ion Ratio Lower Upper

95 100

174 92.9 0.0 183.2

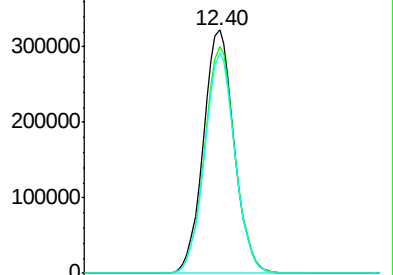
176 90.0 0.0 177.4



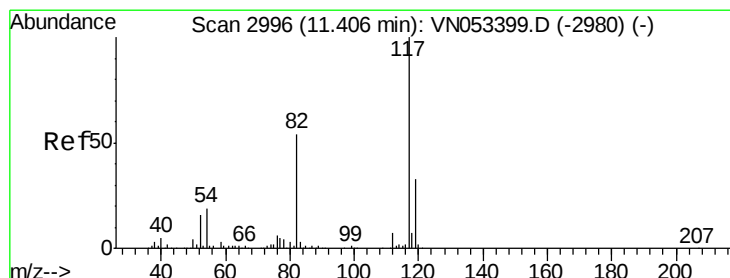
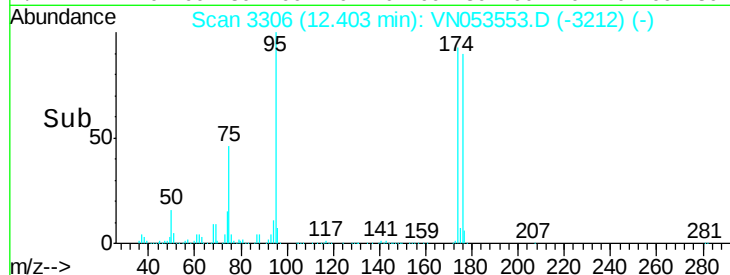
Abundance Ion 94.90 (94.60 to 95.60): VN053399.D (-3290) (-)

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

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



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN053553.D

Acq: 28 Jan 2019 18:36

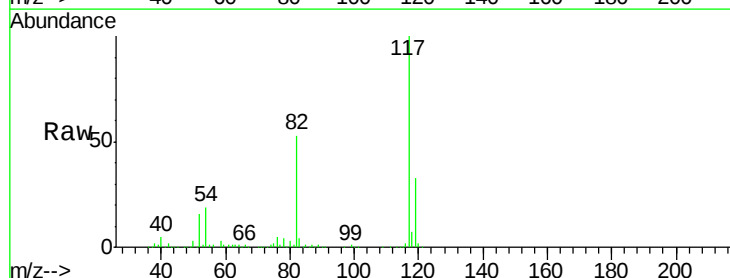
Tgt Ion: 117 Resp: 1256601

Ion Ratio Lower Upper

117 100

82 53.0 42.9 64.3

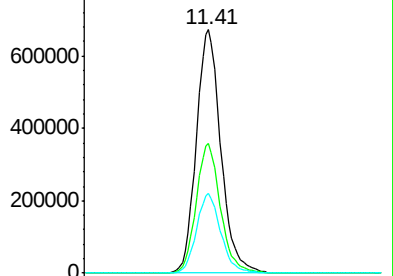
119 32.6 26.0 39.0



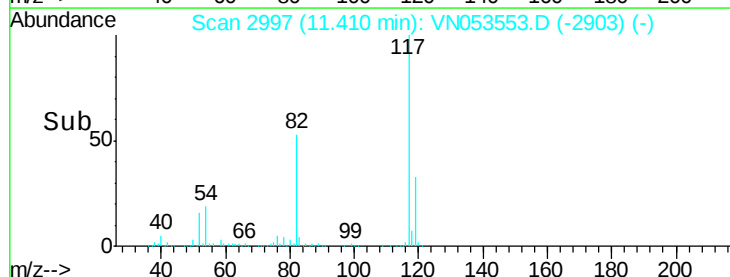
Abundance Ion 116.90 (116.60 to 117.60): VN053399.D (-2980) (-)

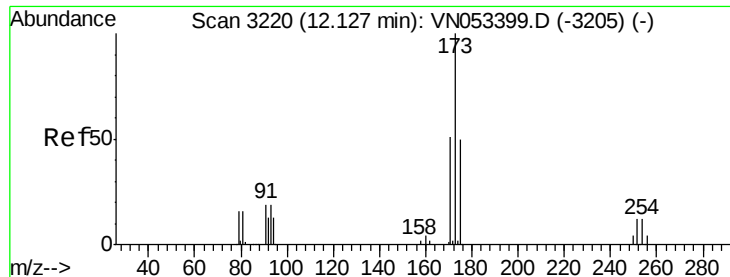
Ion 82.00 (81.70 to 82.70): VN053399.D (-2980) (-)

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



Time-->

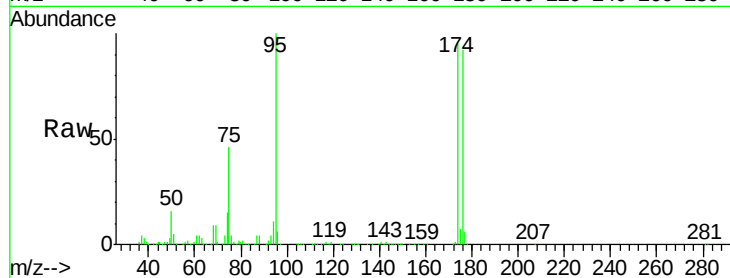




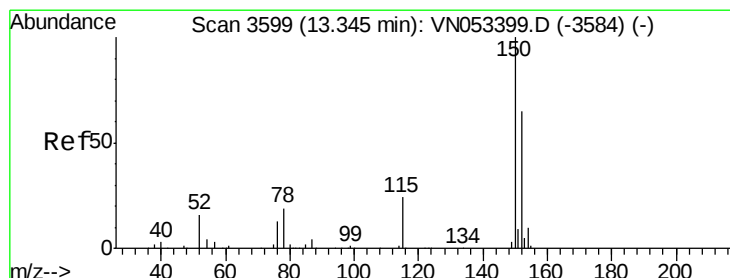
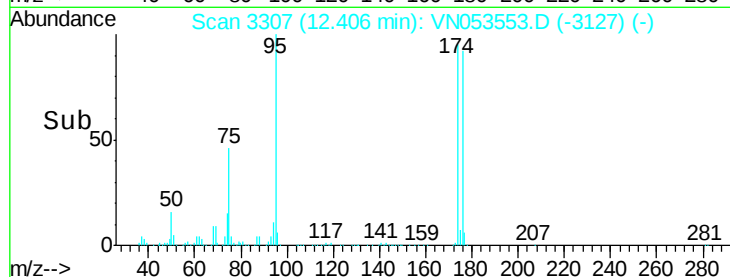
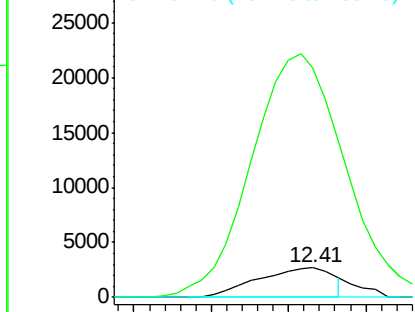
#71
Bromoform
Concen: 0.575 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN053553.D
Acq: 28 Jan 2019 18:36

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:173 Resp: 3664
Ion Ratio Lower Upper
173 100
175 865.6 24.6 74.0#
254 0.0 0.2 0.2#

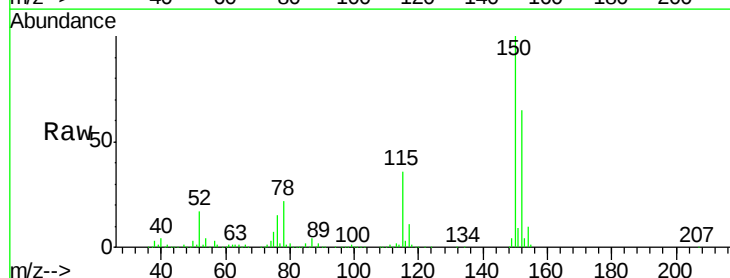


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

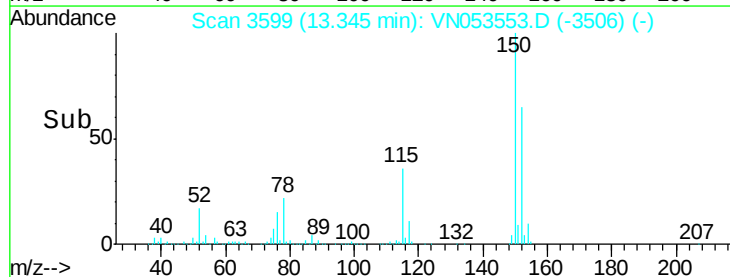
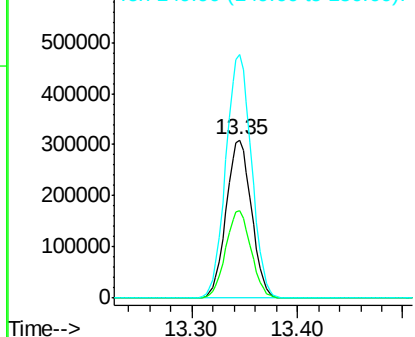


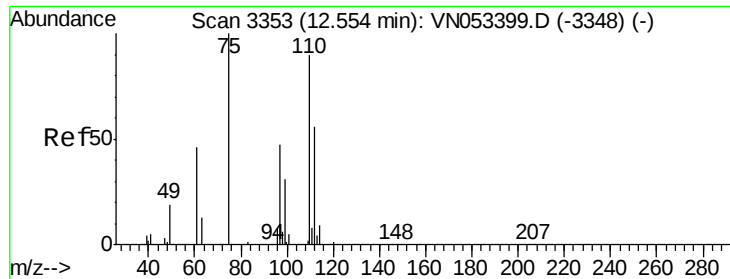
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053553.D
Acq: 28 Jan 2019 18:36

Tgt Ion:152 Resp: 511155
Ion Ratio Lower Upper
152 100
115 55.5 27.8 83.4
150 156.2 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

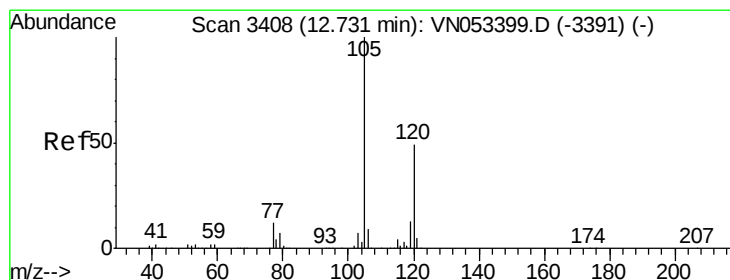
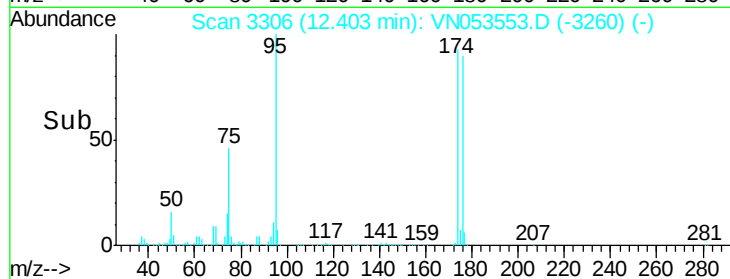
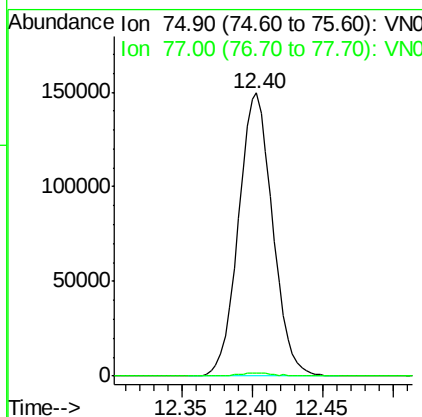
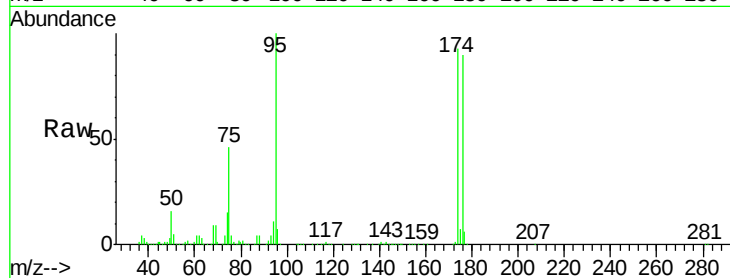




#76
 1,2,3-Trichloropropane
 Concen: 37.628 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. -0.15 min
 Lab File: VN053553.D
 Acq: 28 Jan 2019 18:36

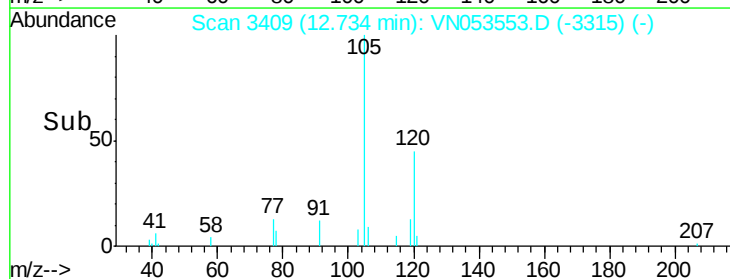
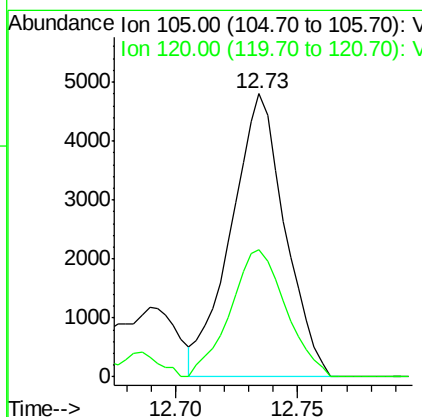
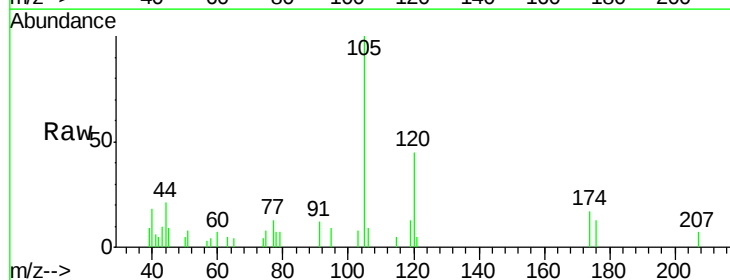
Instrument :
 MSVOA_N
 ClientSampleId :

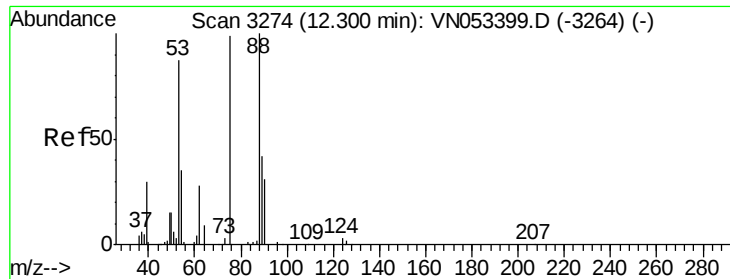
Tot Ion: 75 Resp: 253463
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.241 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN053553.D
 Acq: 28 Jan 2019 18:36

Tgt Ion: 105 Resp: 7342
 Ion Ratio Lower Upper
 105 100
 120 46.3 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 92.935 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053553.D

Acq: 28 Jan 2019 18:36

Instrument :

MSVOA_N

ClientSampleId :

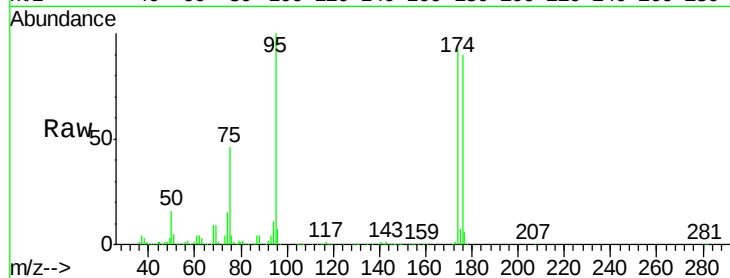
Tot Ion: 75 Resp: 253463

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

89 0.0 35.6 53.4#



Abundance Ion 74.90 (74.60 to 75.60): VN053399.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN053399.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN053399.D (-3264) (-)

12.40

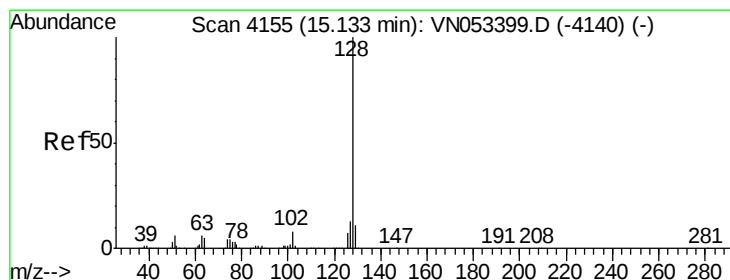
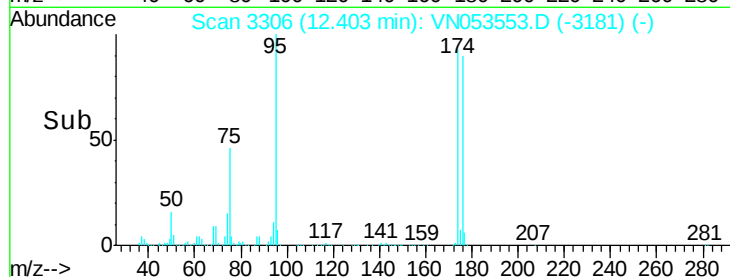
150000

100000

50000

0

Time-->



#95

Naphthalene

Concen: 4.844 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053553.D

Acq: 28 Jan 2019 18:36

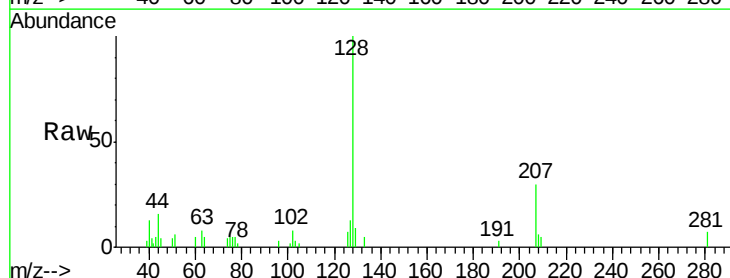
Tgt Ion: 128 Resp: 12147

Ion Ratio Lower Upper

128 100

127 12.0 10.3 15.5

129 9.6 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): VN053399.D (-4140) (-)

Ion 127.00 (126.70 to 127.70): VN053399.D (-4140) (-)

Ion 129.00 (128.70 to 129.70): VN053399.D (-4140) (-)

15.13

8000

6000

4000

2000

0

Time-->

