

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN011719\
 Data File : VN053440.D
 Acq On : 17 Jan 2019 17:46
 Operator : JC/SP
 Sample : PB116439ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 28

Quant Time: Jan 18 00:11:45 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	962756	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1497478	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1417943	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	593028	50.00	ug/l	0.00

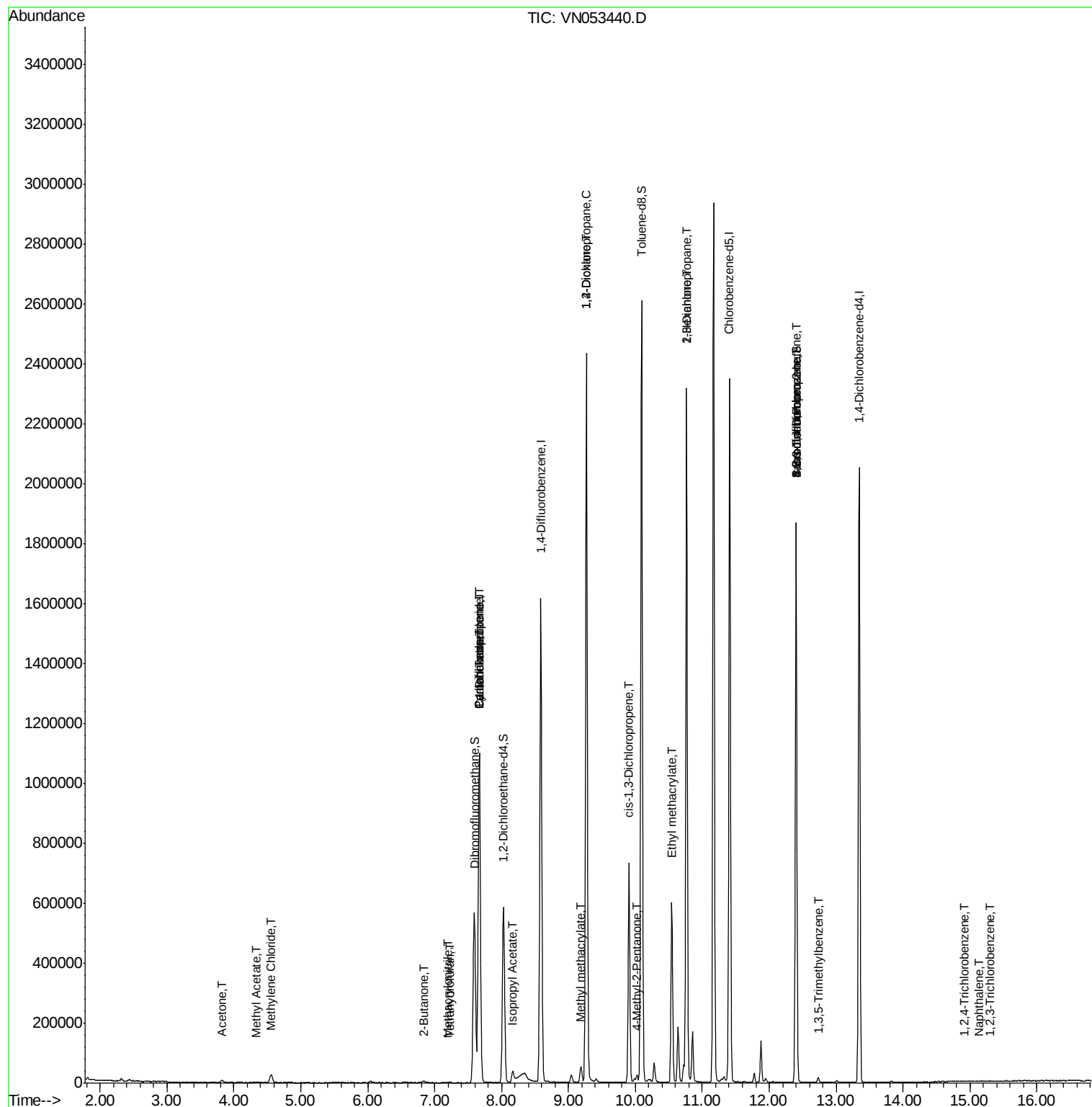
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	484680	50.93	ug/l	0.00
Spiked Amount			Recovery	=	101.86%	
35) Dibromofluoromethane	7.59	113	438620	51.32	ug/l	0.00
Spiked Amount			Recovery	=	102.64%	
50) Toluene-d8	10.09	98	1874065	51.85	ug/l	0.00
Spiked Amount			Recovery	=	103.70%	
62) 4-Bromofluorobenzene	12.40	95	635952	50.18	ug/l	0.00
Spiked Amount			Recovery	=	100.36%	

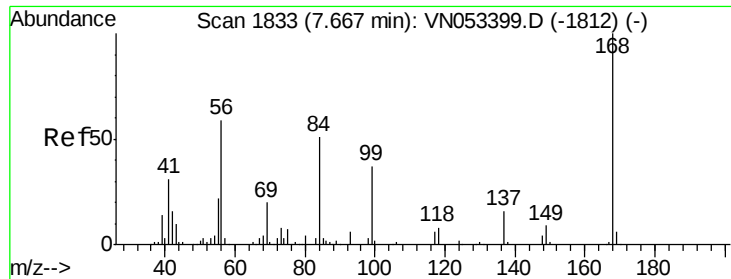
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	12413	5.560	ug/l	99
18) Methyl Acetate	4.34	43	3708	0.493	ug/l #	66
20) Methylene Chloride	4.55	84	10840	1.063	ug/l	99
25) 2-Butanone	6.84	43	7021	2.041	ug/l	95
29) Tetrahydrofuran	7.22	42	1344	0.600	ug/l #	84
31) Cyclohexane	7.67	56	15640	0.715	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	63338	4.644	ug/l #	48
38) Carbon Tetrachloride	7.67	117	83516	6.468	ug/l #	16
41) Methacrylonitrile	7.19	41	62	0.681	ug/l #	20
43) Isopropyl Acetate	8.17	43	51036	3.617	ug/l #	87
45) 1,2-Dichloropropane	9.27	63	3211	0.293	ug/l #	43
48) Methyl methacrylate	9.18	41	19385	2.661	ug/l #	21
49) 1,4-Dioxane	9.27	88	381	5.355	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	21224	2.756	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	139701	8.865	ug/l #	62
56) Ethyl methacrylate	10.54	69	2104	2.218	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	24834	1.618	ug/l #	43
59) 2-Hexanone	10.76	43	327624	60.598	ug/l #	49
71) Bromoform	12.41	173	4948	0.688	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	299239	38.290	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7789	0.220	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	299239	94.527	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	457	2.819	ug/l #	66
95) Naphthalene	15.14	128	1309	4.023	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.31	180	676	4.008	ug/l	90

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

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QLast Update : Wed Jan 16 03:10:53 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053440.D

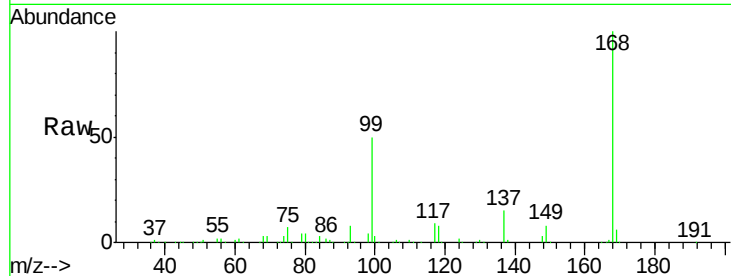
Acq: 17 Jan 2019 17:46

Tot Ion:168 Resp: 962756

Ion Ratio Lower Upper

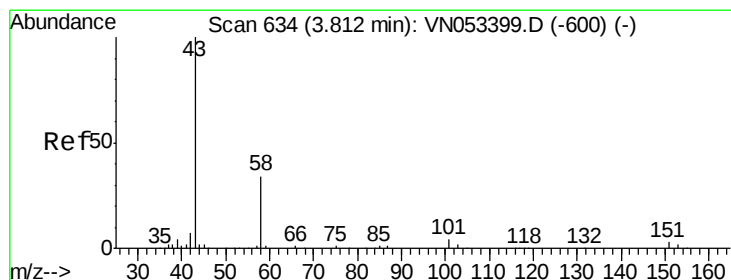
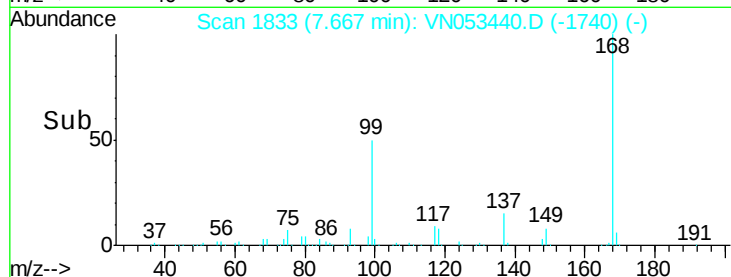
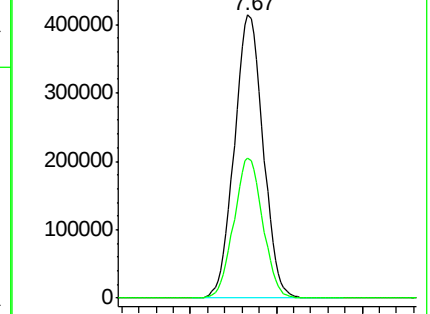
168 100

99 49.7 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 5.560 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN053440.D

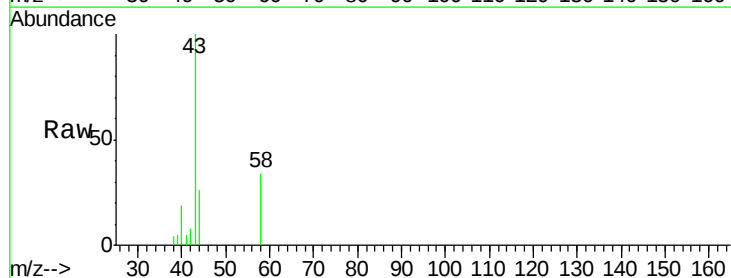
Acq: 17 Jan 2019 17:46

Tgt Ion: 43 Resp: 12413

Ion Ratio Lower Upper

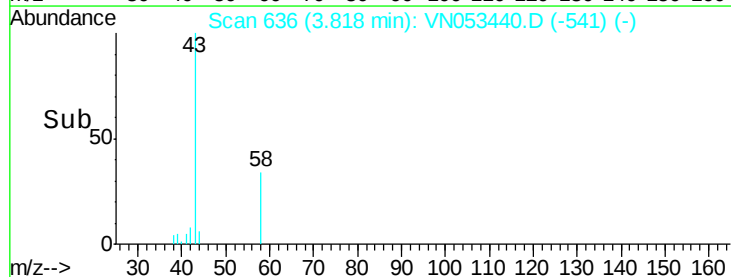
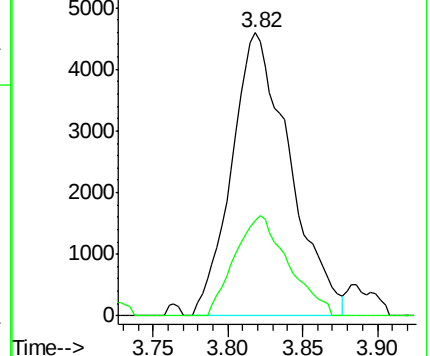
43 100

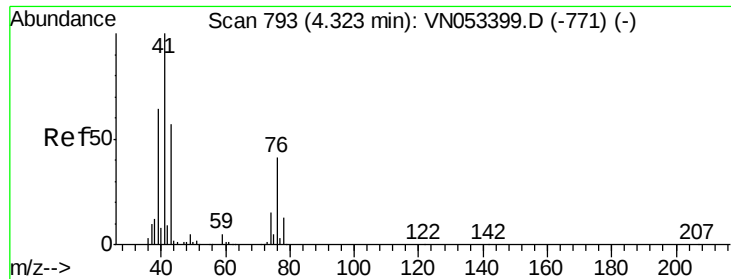
58 33.5 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VNO

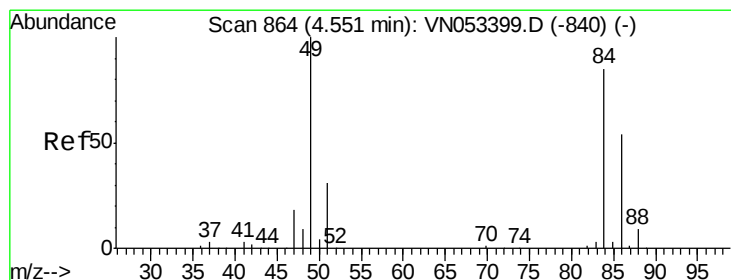
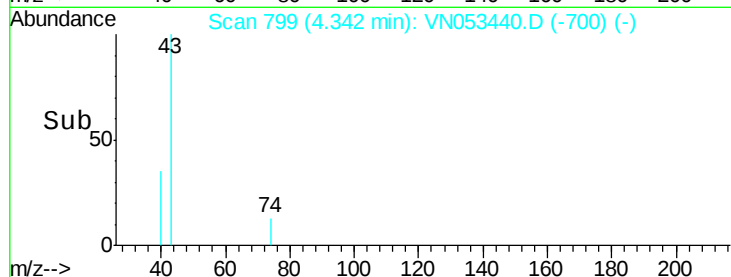
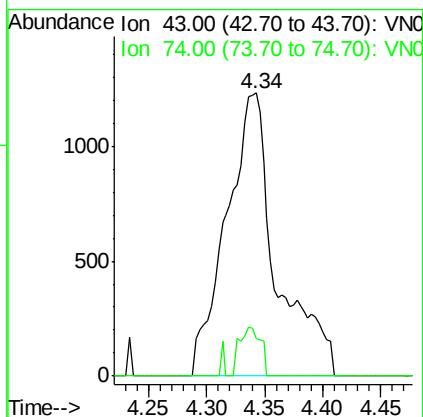
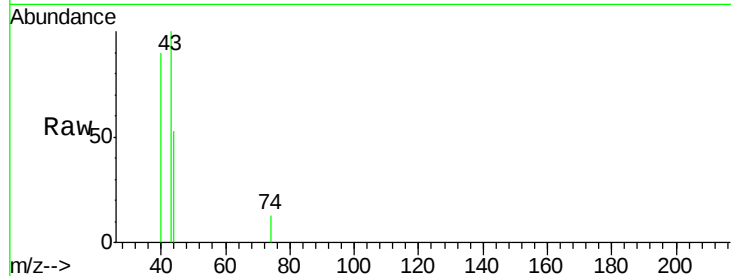
Ion 58.00 (57.70 to 58.70): VNO





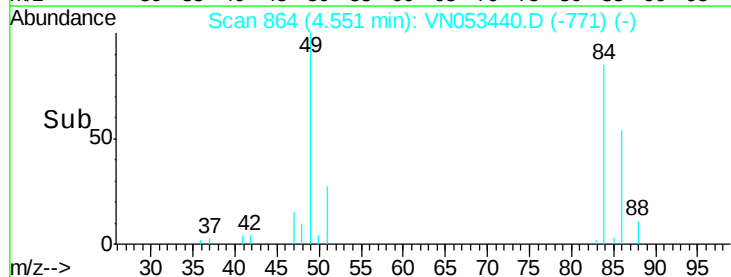
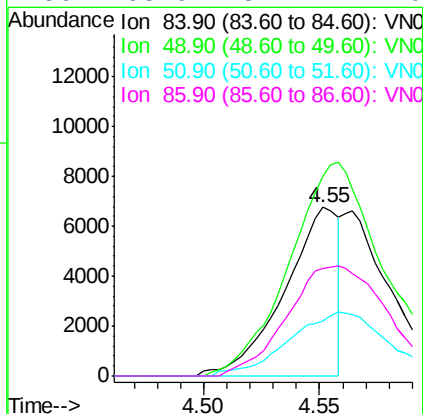
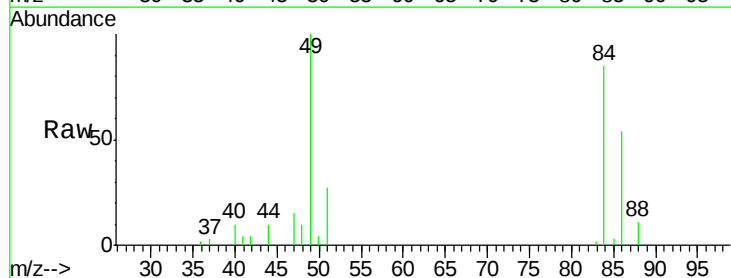
#18
Methvl Acetate
Concen: 0.493 ug/l
RT: 4.34 min Scan# 799
Delta R.T. 0.02 min
Lab File: VN053440.D
Acq: 17 Jan 2019 17:46

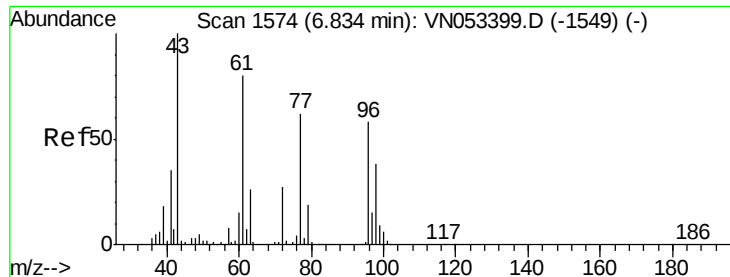
Tot Ion: 43 Resp: 3708
Ion Ratio Lower Upper
43 100
74 7.2 19.4 29.2#



#20
Methylene Chloride
Concen: 1.063 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN053440.D
Acq: 17 Jan 2019 17:46

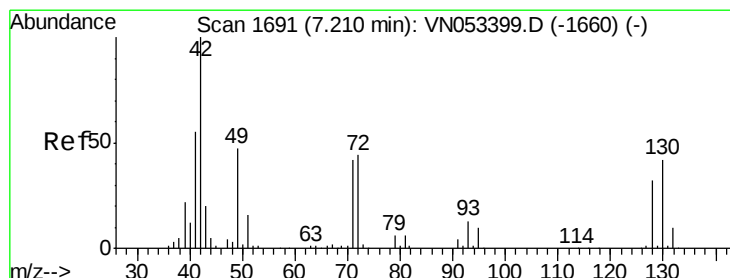
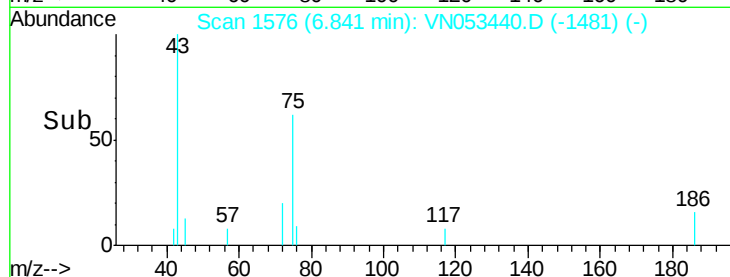
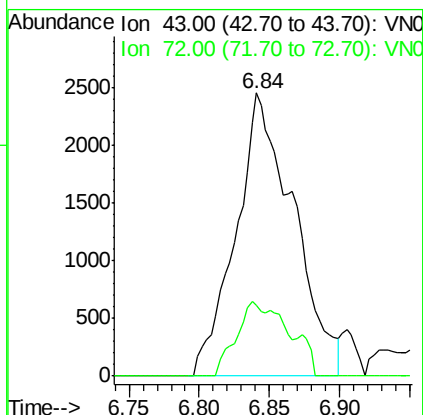
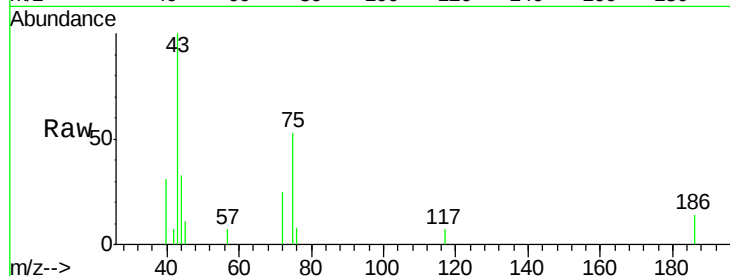
Tgt Ion: 84 Resp: 10840
Ion Ratio Lower Upper
84 100
49 118.2 94.3 141.5
51 32.3 29.4 44.2
86 63.9 51.4 77.0





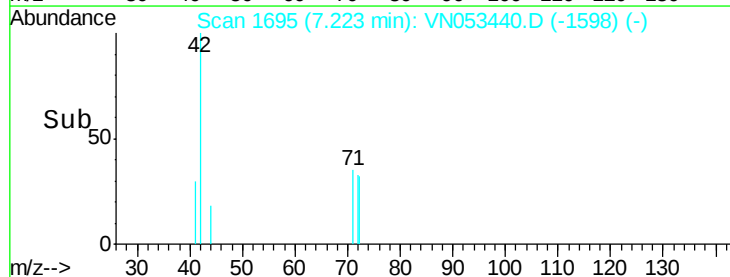
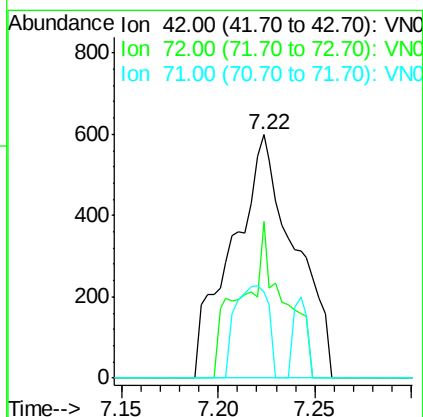
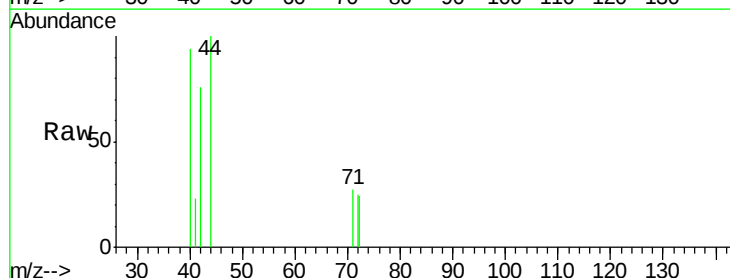
#25
2-Butanone
Concen: 2.041 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.01 min
Lab File: VN053440.D
Acq: 17 Jan 2019 17:46

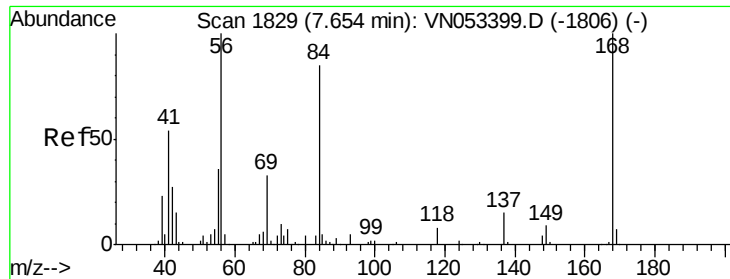
Tot Ion: 43 Resp: 7021
Ion Ratio Lower Upper
43 100
72 25.1 22.0 33.0



#29
Tetrahydrofuran
Concen: 0.600 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.01 min
Lab File: VN053440.D
Acq: 17 Jan 2019 17:46

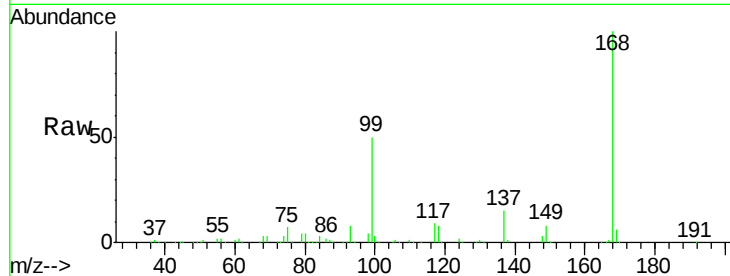
Tgt Ion: 42 Resp: 1344
Ion Ratio Lower Upper
42 100
72 43.8 35.2 52.8
71 20.2 33.0 49.4#



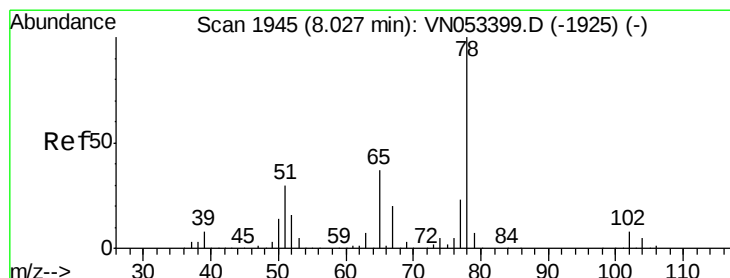
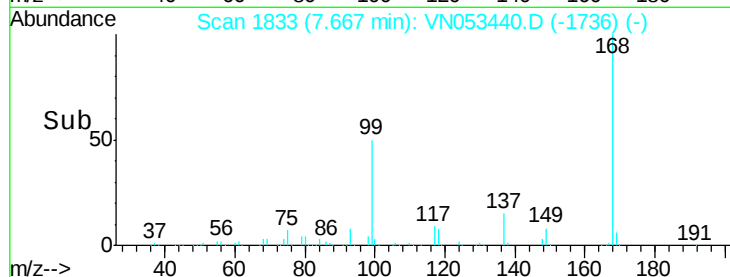
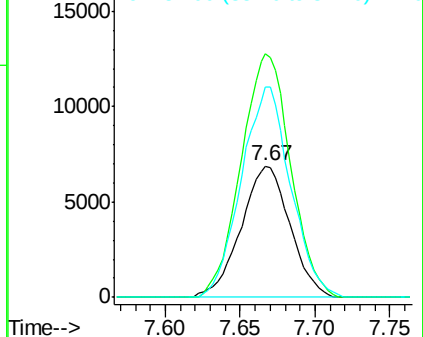


#31
Cyclohexane
Concen: 0.715 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN053440.D
Acq: 17 Jan 2019 17:46

Tot Ion: 56 Resp: 15640
Ion Ratio Lower Upper
56 100
69 185.3 26.4 39.6#
84 160.5 67.9 101.9#

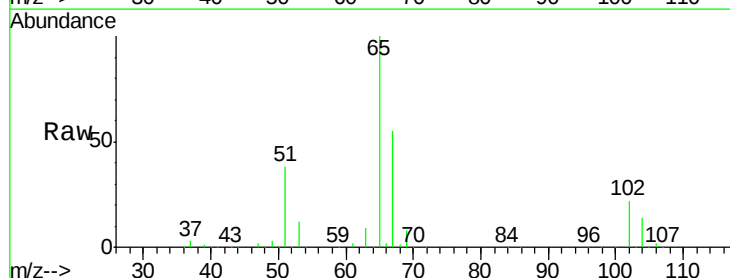


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

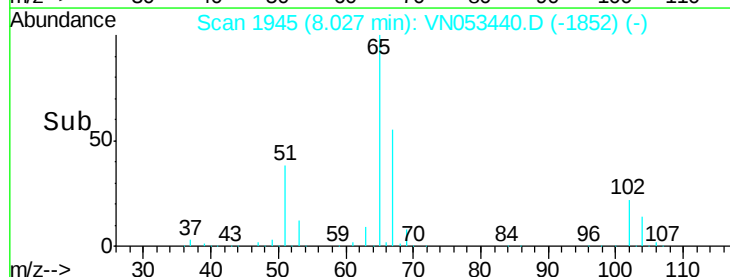
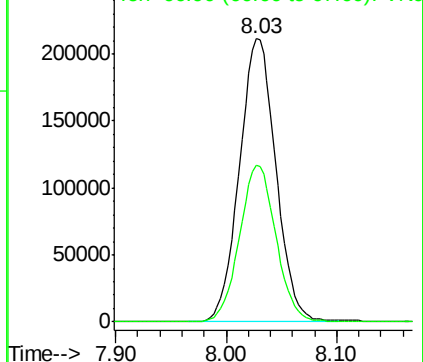


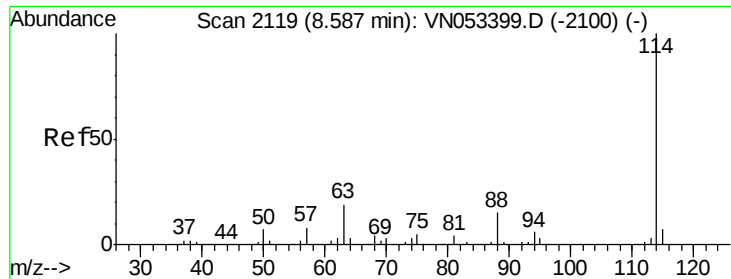
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN053440.D
Acq: 17 Jan 2019 17:46

Tgt Ion: 65 Resp: 484680
Ion Ratio Lower Upper
65 100
67 55.2 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

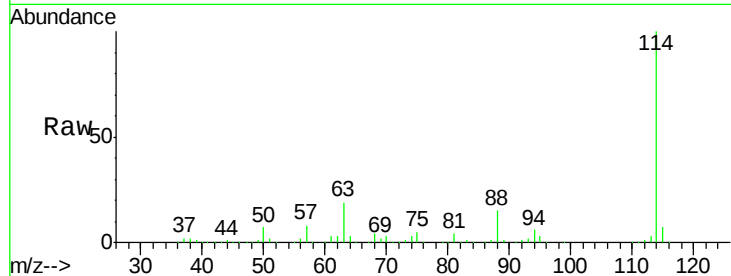




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053440.D
 Acq: 17 Jan 2019 17:46

Tot Ion:114 Resp: 1497478

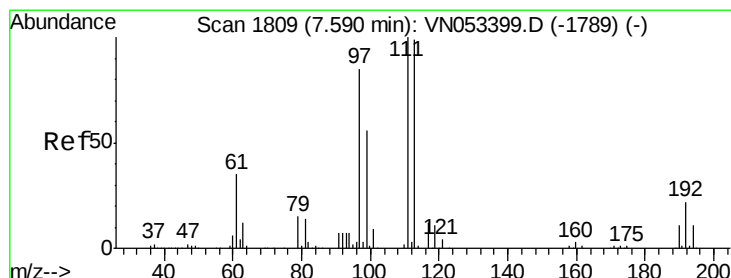
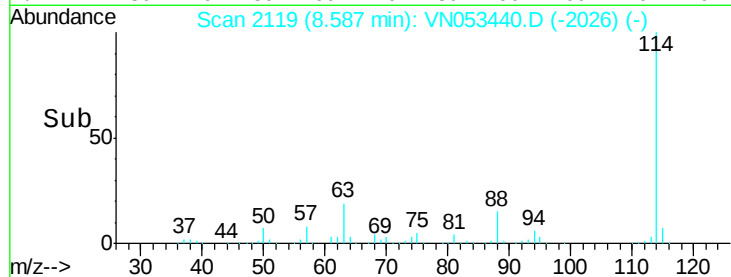
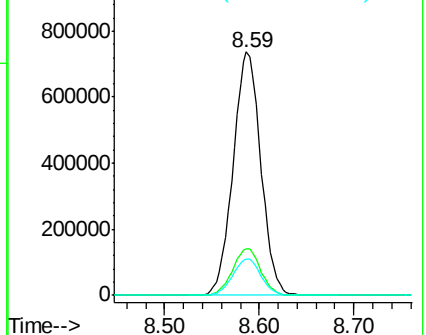
Ion	Ratio	Lower	Upper
114	100		
63	19.3	0.0	38.6
88	15.0	0.0	30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

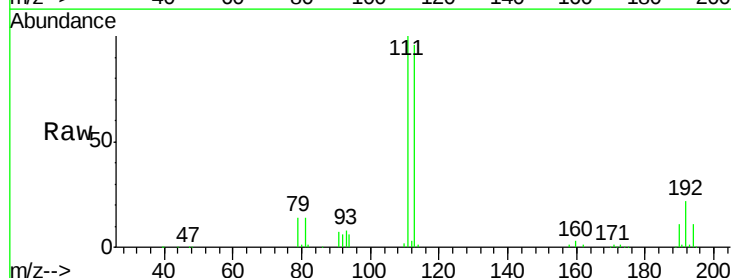
Ion 87.90 (87.60 to 88.60): VN



#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053440.D
 Acq: 17 Jan 2019 17:46

Tgt Ion:113 Resp: 438620

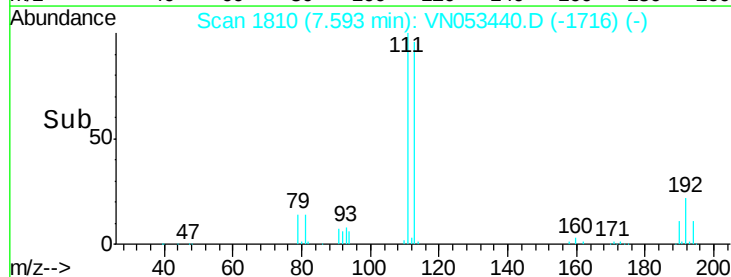
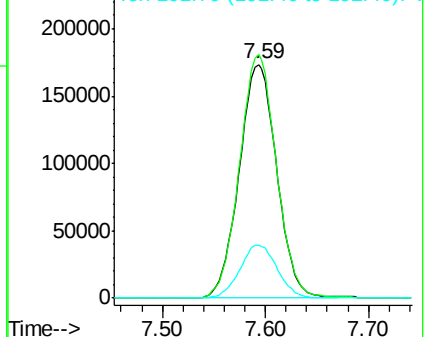
Ion	Ratio	Lower	Upper
113	100		
111	102.9	81.1	121.7
192	22.6	18.2	27.2

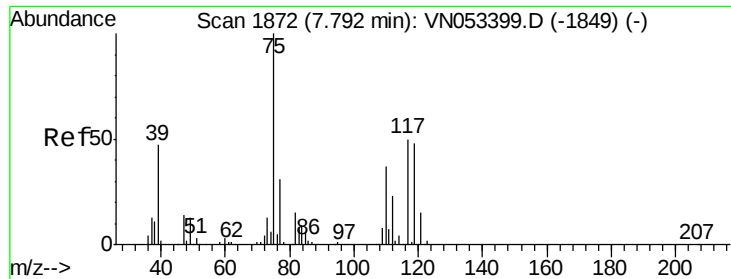


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.644 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053440.D

Acq: 17 Jan 2019 17:46

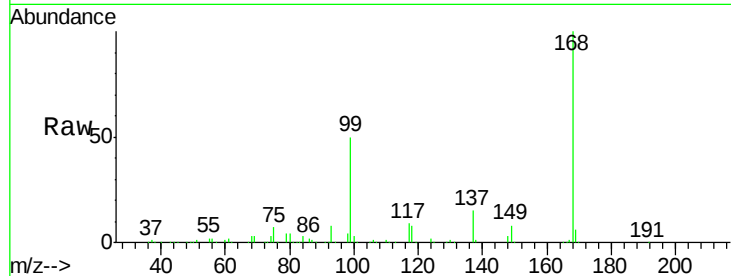
Tot Ion: 75 Resp: 63338

Ion Ratio Lower Upper

75 100

110 8.5 18.1 54.3#

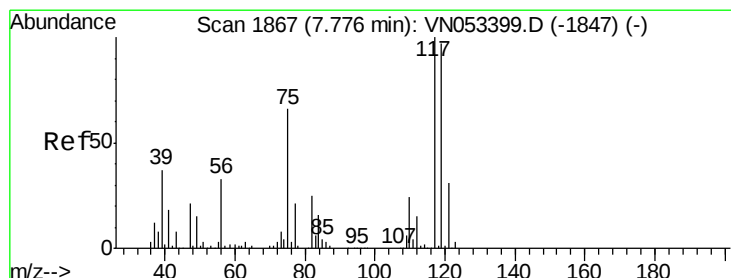
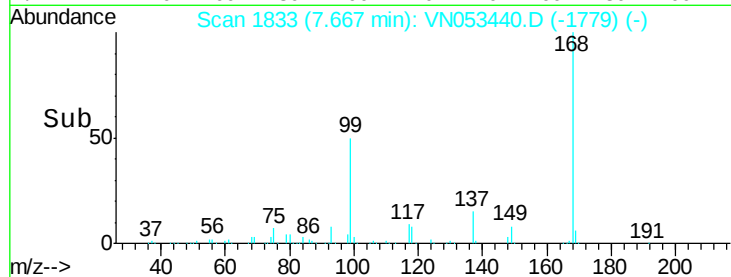
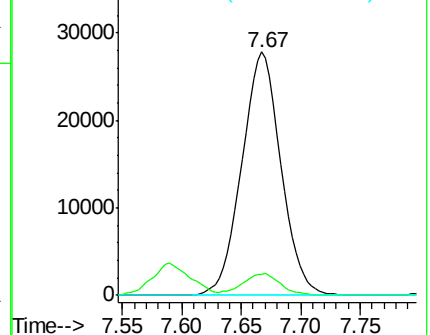
77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VN053399.D (-1849) (-)

Ion 109.90 (109.60 to 110.60): VN053399.D (-1849) (-)

Ion 76.90 (76.60 to 77.60): VN053399.D (-1849) (-)



#38

Carbon Tetrachloride

Concen: 6.468 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053440.D

Acq: 17 Jan 2019 17:46

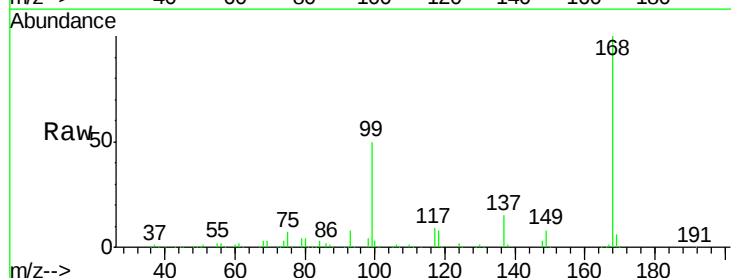
Tgt Ion: 117 Resp: 83516

Ion Ratio Lower Upper

117 100

119 5.1 77.2 115.8#

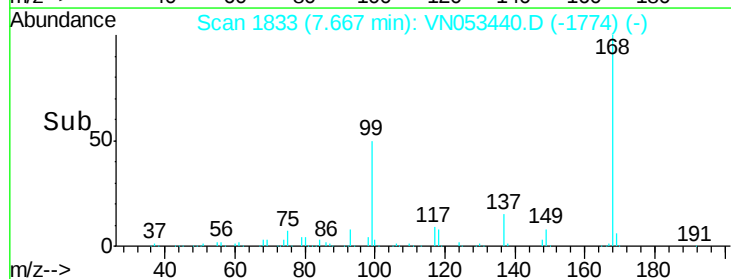
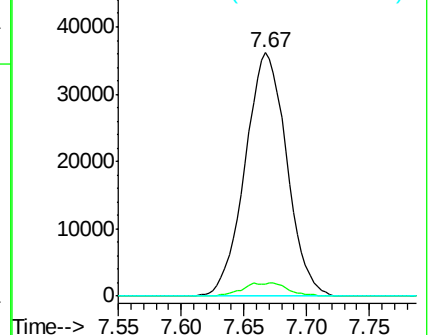
121 0.0 24.6 37.0#

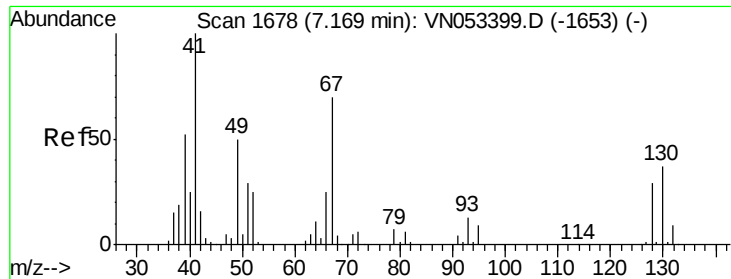


Abundance Ion 116.80 (116.50 to 117.50): VN053399.D (-1847) (-)

Ion 118.80 (118.50 to 119.50): VN053399.D (-1847) (-)

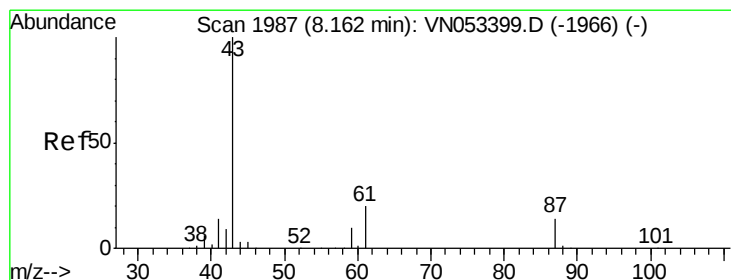
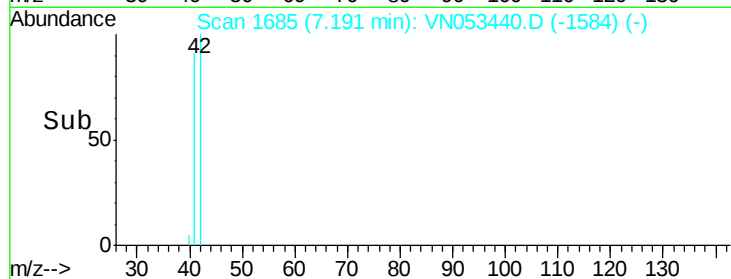
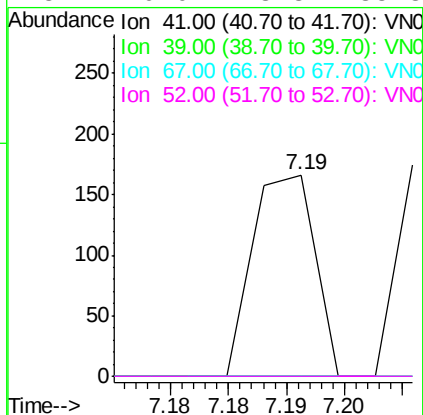
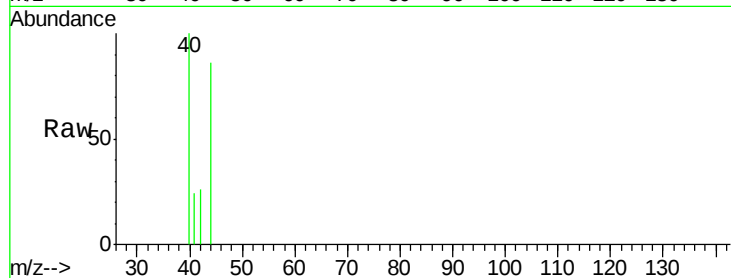
Ion 120.80 (120.50 to 121.50): VN053399.D (-1847) (-)





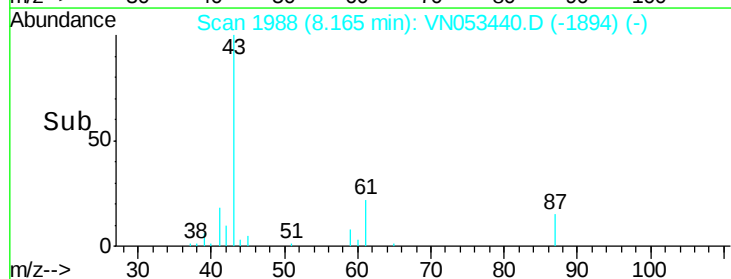
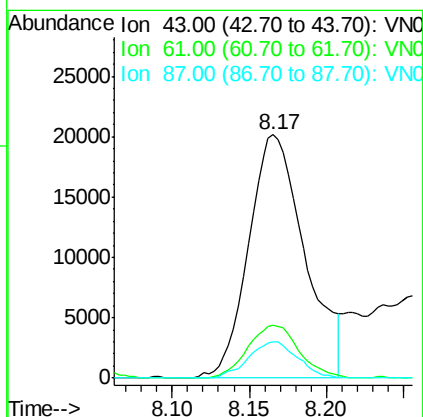
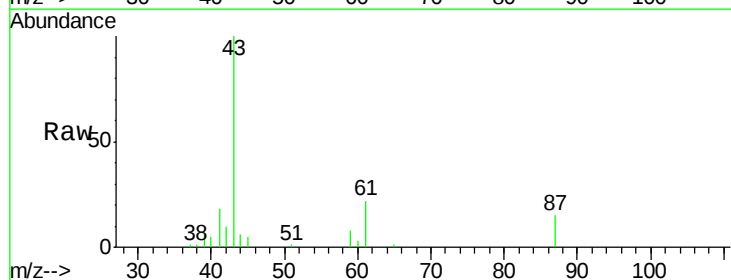
#41
Methacrylonitrile
Concen: 0.681 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. 0.02 min
Lab File: VN053440.D
Acq: 17 Jan 2019 17:46

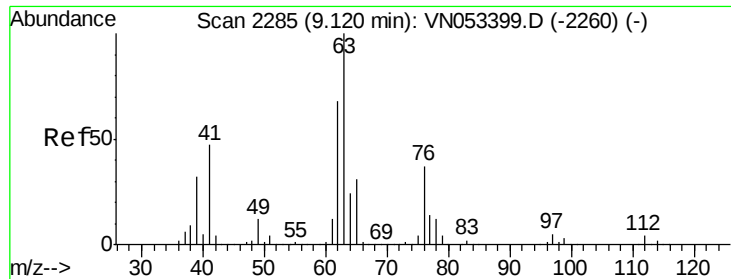
Tot Ion:	41	Resp:	62
Ion	Ratio	Lower	Upper
41	100		
39	0.0	46.8	70.2#
67	0.0	63.0	94.6#
52	0.0	23.8	35.8#



#43
Isopropyl Acetate
Concen: 3.617 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN053440.D
Acq: 17 Jan 2019 17:46

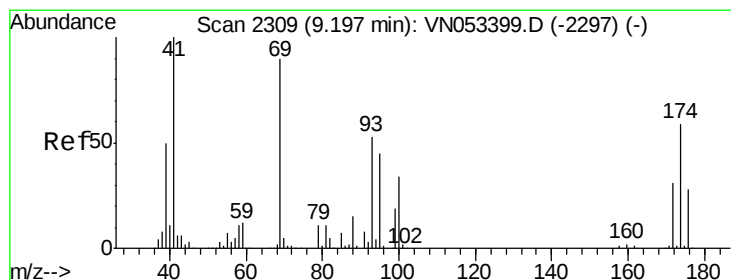
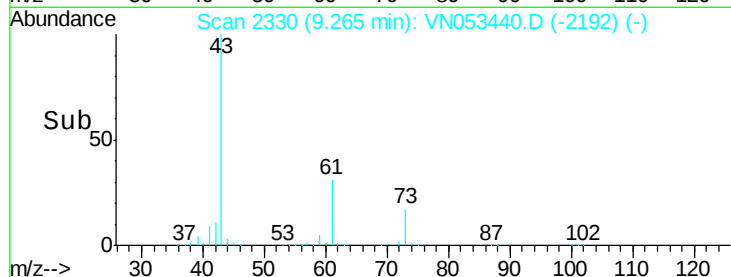
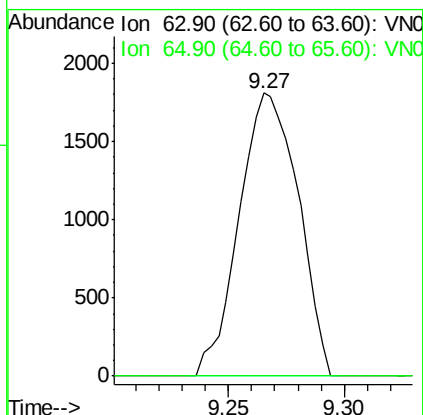
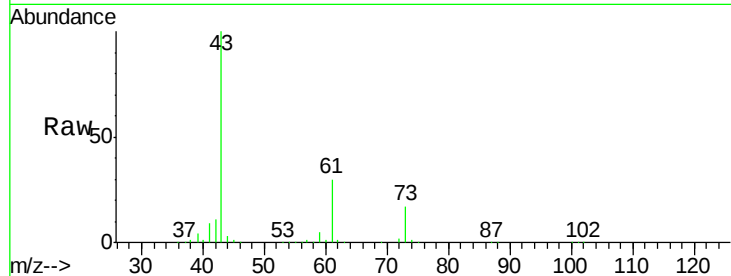
Tgt Ion:	43	Resp:	51036
Ion	Ratio	Lower	Upper
43	100		
61	19.8	23.9	35.9#
87	13.0	11.0	16.6





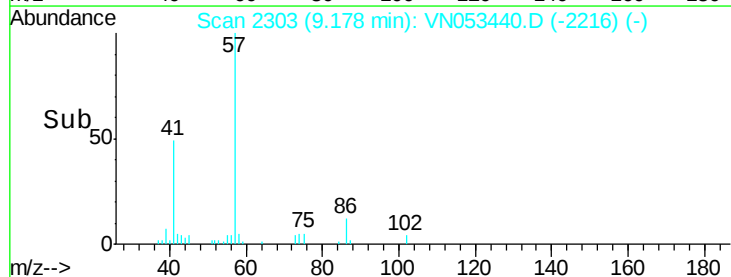
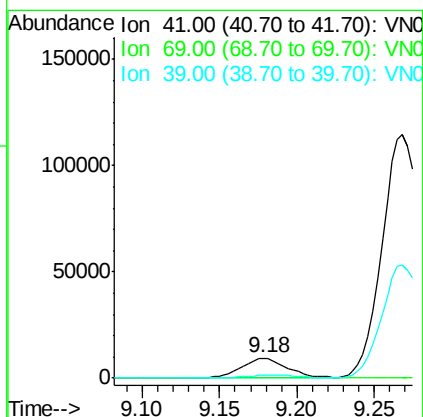
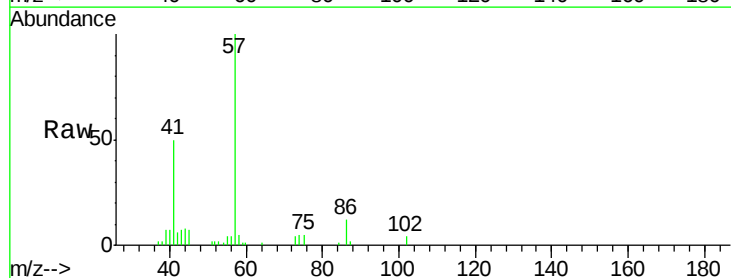
#45
 1,2-Dichloropropane
 Concen: 0.293 ug/l
 RT: 9.27 min Scan# 2330
 Delta R.T. 0.14 min
 Lab File: VN053440.D
 Acq: 17 Jan 2019 17:46

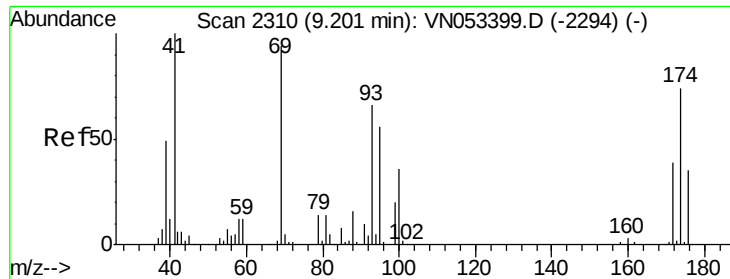
Tot Ion: 63 Resp: 3211
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 2.661 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN053440.D
 Acq: 17 Jan 2019 17:46

Tgt Ion: 41 Resp: 19385
 Ion Ratio Lower Upper
 41 100
 69 0.0 73.8 110.6#
 39 18.5 40.0 60.0#





#49

1,4-Dioxane

Concen: 5.355 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.06 min

Lab File: VN053440.D

Acq: 17 Jan 2019 17:46

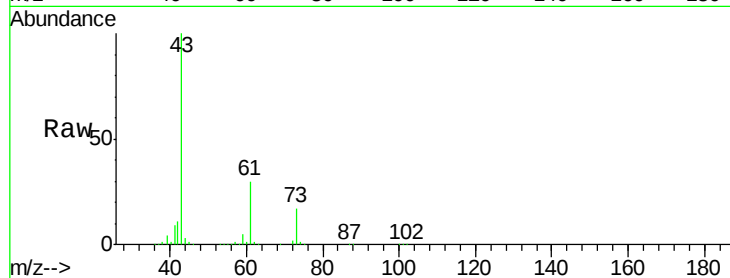
Tot Ion: 88 Resp: 381

Ion Ratio Lower Upper

88 100

43 617170.6 27.8 41.6#

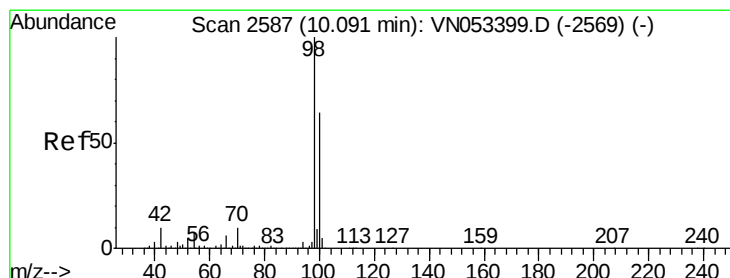
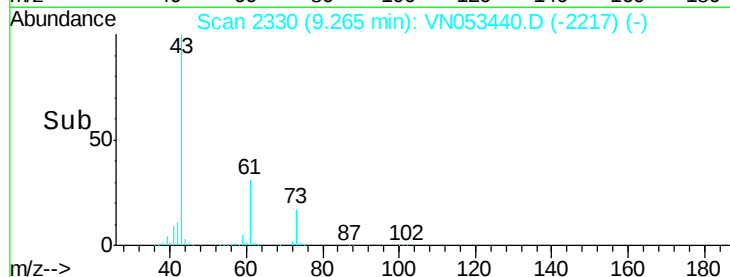
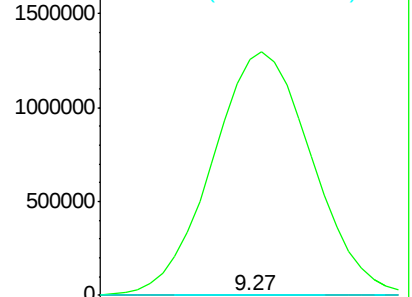
58 2630.2 56.5 84.7#



Abundance Ion 88.00 (87.70 to 88.70): VN053399.D (-2294) (-)

Ion 43.00 (42.70 to 43.70): VN053399.D (-2294) (-)

Ion 58.00 (57.70 to 58.70): VN053399.D (-2294) (-)



#50

Toluene-d8

Concen: 5.355 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053440.D

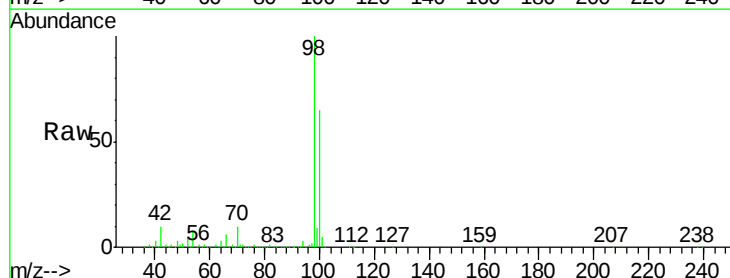
Acq: 17 Jan 2019 17:46

Tgt Ion: 98 Resp: 1874065

Ion Ratio Lower Upper

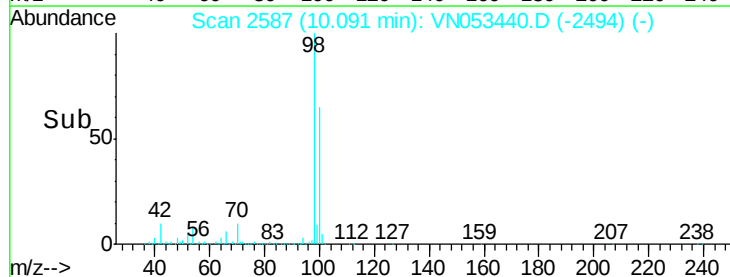
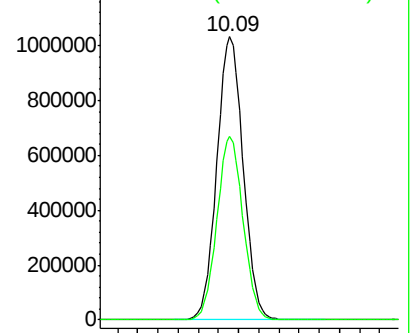
98 100

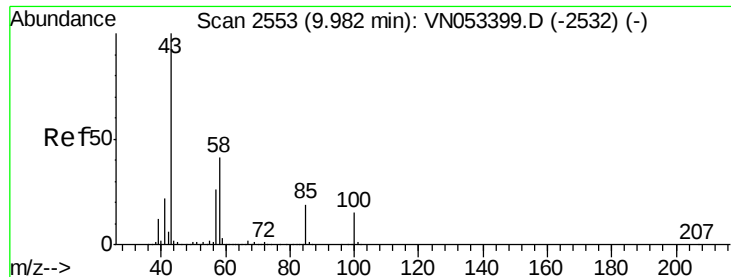
100 64.4 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN053399.D (-2569) (-)

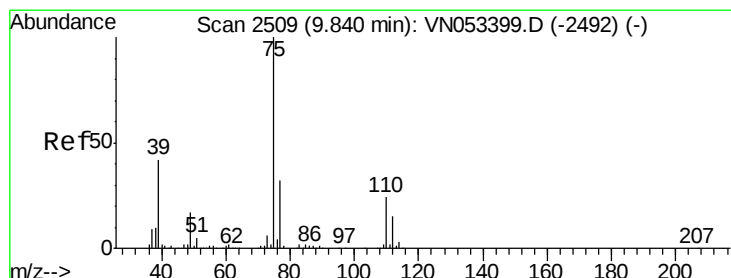
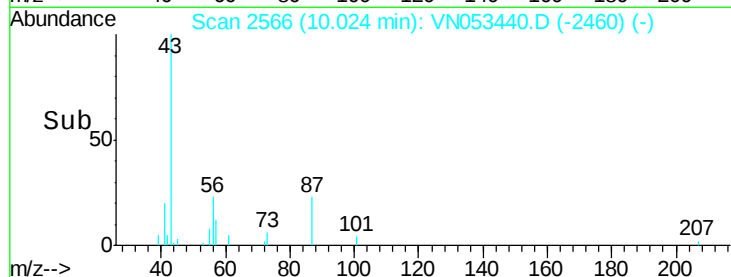
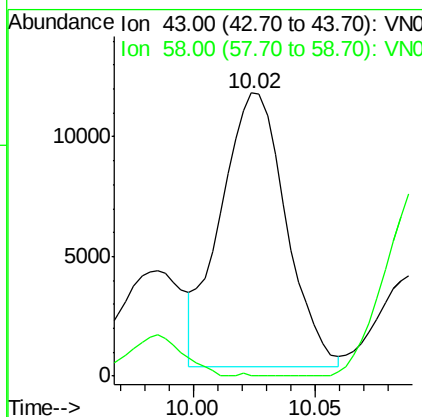
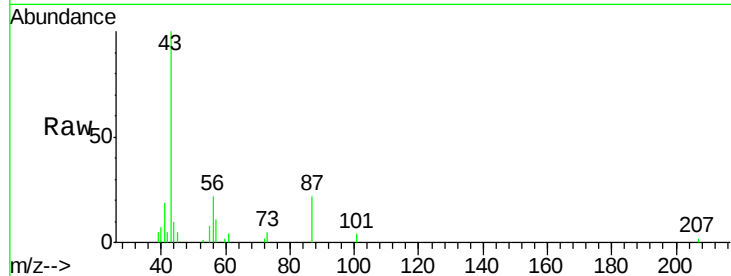
Ion 100.00 (99.70 to 100.70): VN053399.D (-2569) (-)





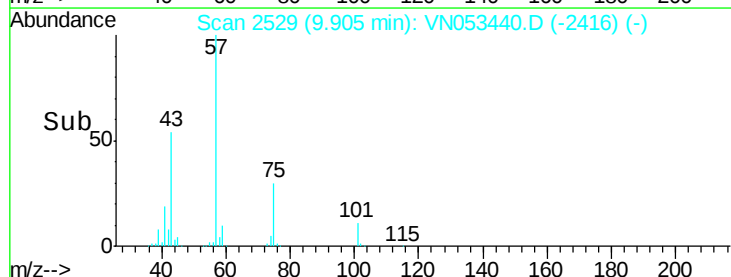
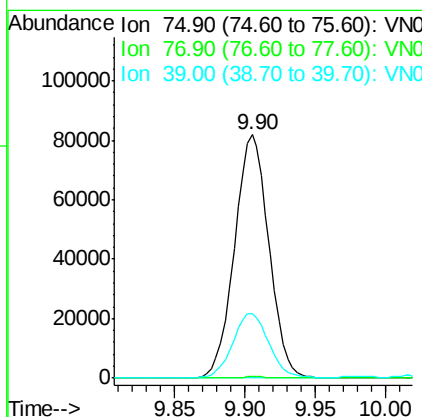
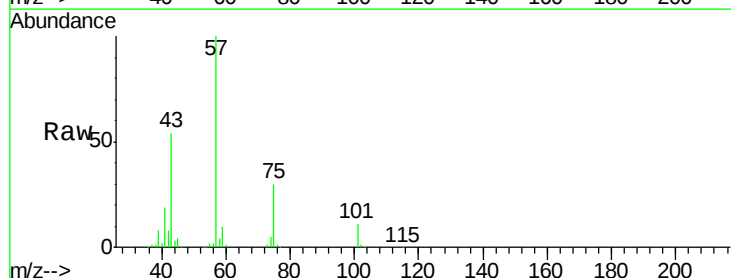
#51
4-Methyl-2-Pentanone
Concen: 2.756 ug/l
RT: 10.02 min Scan# 2566
Delta R.T. 0.04 min
Lab File: VN053440.D
Acq: 17 Jan 2019 17:46

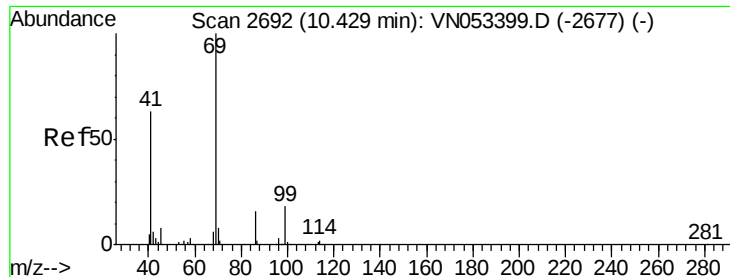
Tot Ion: 43 Resp: 21224
Ion Ratio Lower Upper
43 100
58 0.0 32.8 49.2#



#54
cis-1,3-Dichloropropene
Concen: 8.865 ug/l
RT: 9.90 min Scan# 2529
Delta R.T. 0.06 min
Lab File: VN053440.D
Acq: 17 Jan 2019 17:46

Tgt Ion: 75 Resp: 139701
Ion Ratio Lower Upper
75 100
77 0.5 25.8 38.6#
39 26.3 33.4 50.0#





#56

Ethyl methacrylate

Concen: 2.218 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.11 min

Lab File: VN053440.D

Acq: 17 Jan 2019 17:46

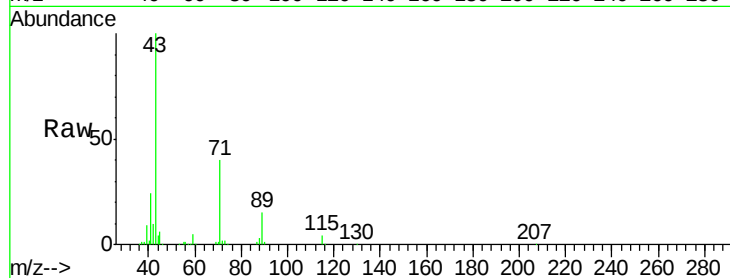
Tot Ion: 69 Resp: 2104

Ion Ratio Lower Upper

69 100

41 5030.6 49.4 74.0#

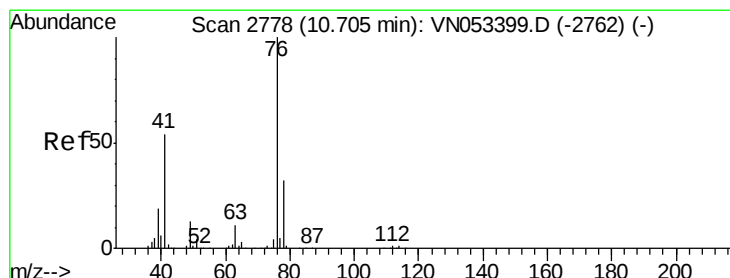
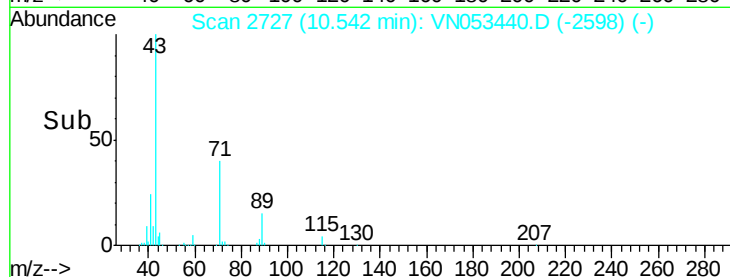
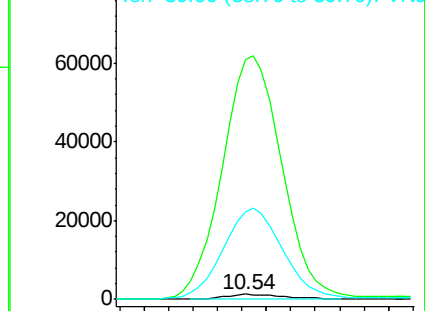
39 1880.4 23.3 34.9#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.618 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN053440.D

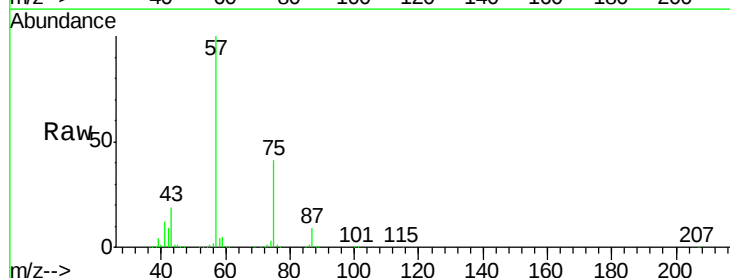
Acq: 17 Jan 2019 17:46

Tgt Ion: 76 Resp: 24834

Ion Ratio Lower Upper

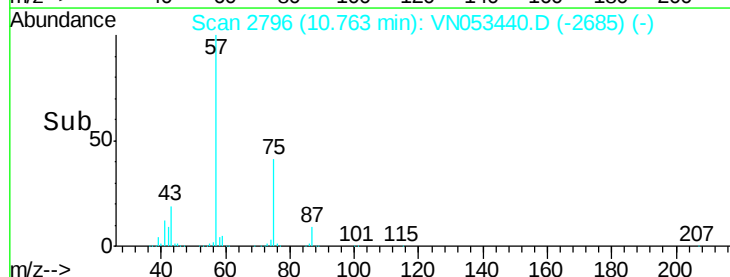
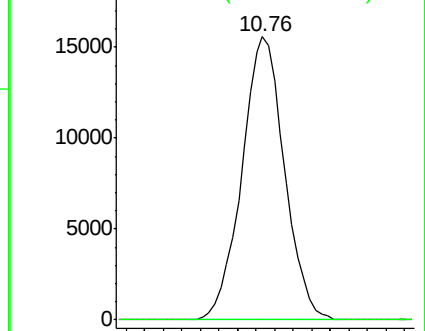
76 100

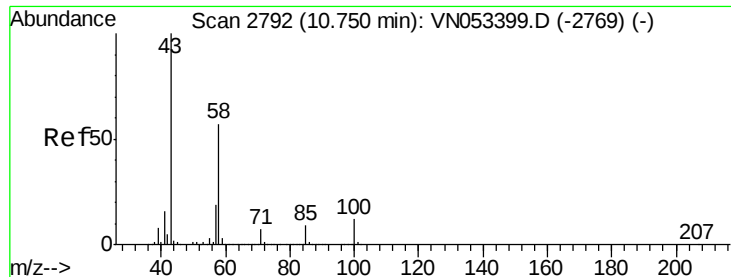
78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

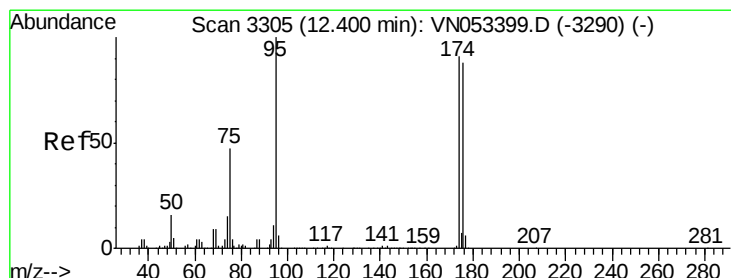
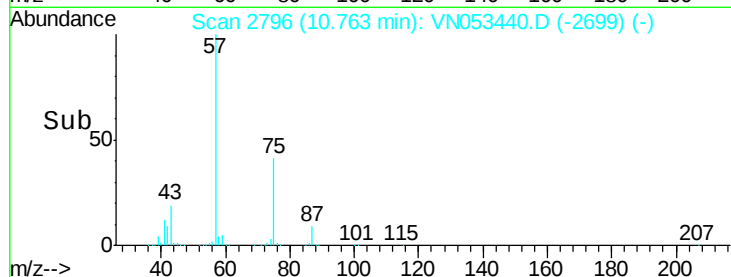
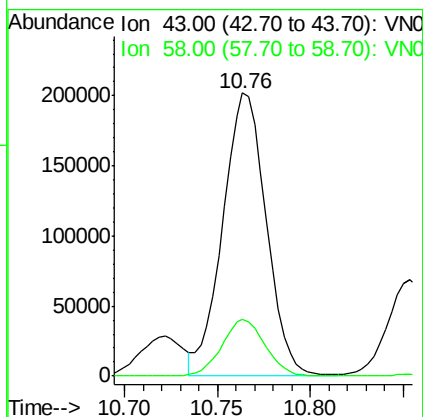
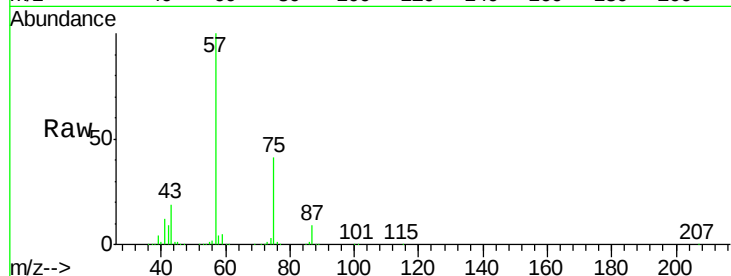
Ion 77.90 (77.60 to 78.60): VN0





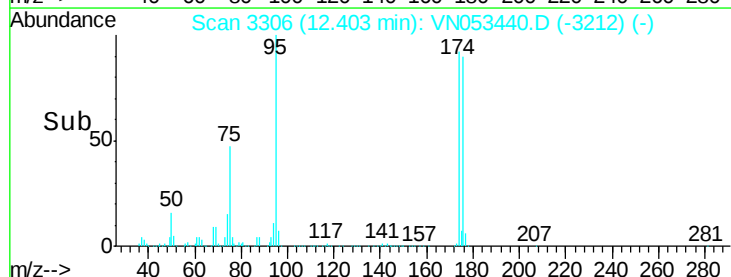
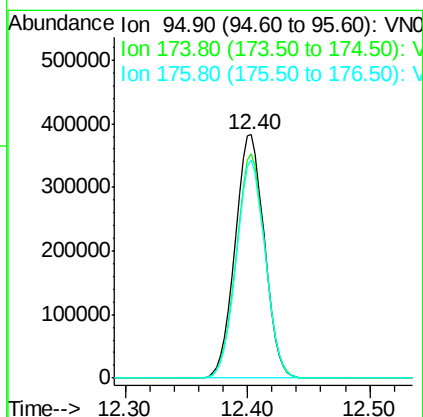
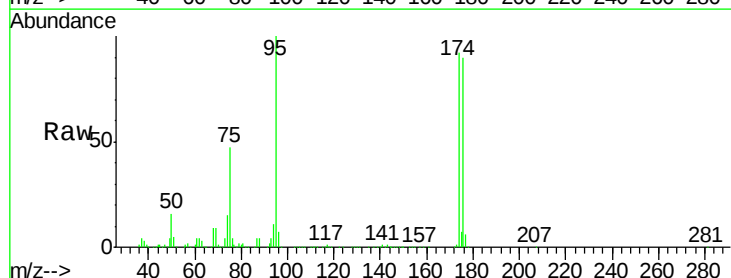
#59
2-Hexanone
Concen: 60.598 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053440.D
Acq: 17 Jan 2019 17:46

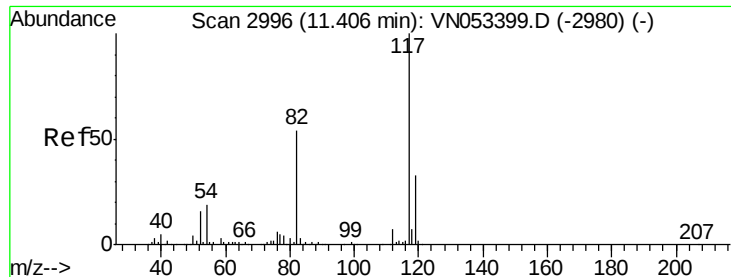
Tot Ion: 43 Resp: 327624
Ion Ratio Lower Upper
43 100
58 19.9 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053440.D
Acq: 17 Jan 2019 17:46

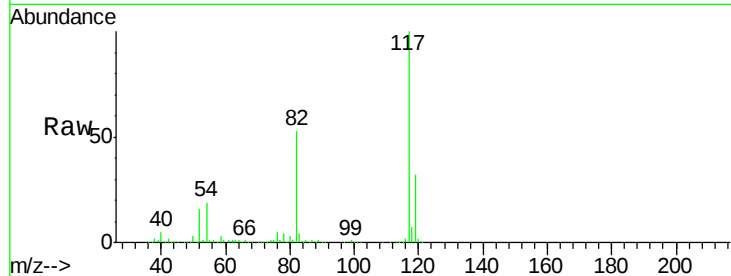
Tgt Ion: 95 Resp: 635952
Ion Ratio Lower Upper
95 100
174 91.0 0.0 183.2
176 88.2 0.0 177.4



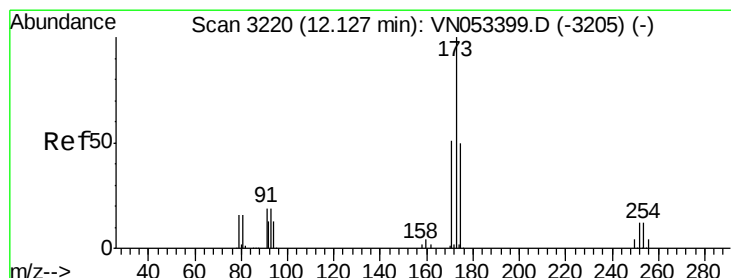
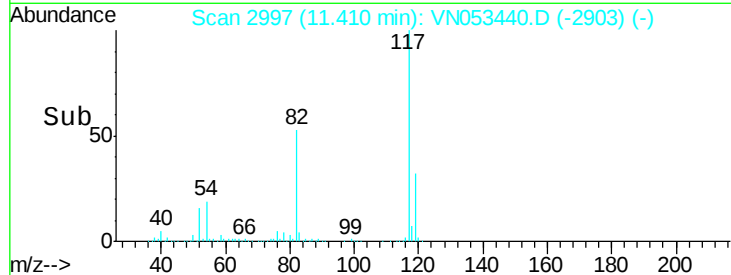
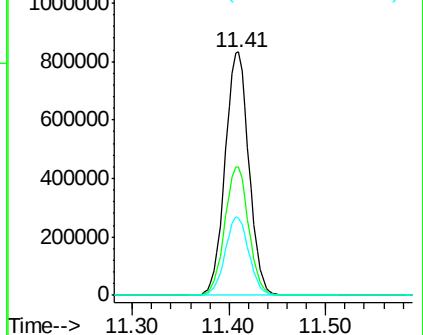


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053440.D
Acq: 17 Jan 2019 17:46

Tot Ion:117 Resp: 1417943
Ion Ratio Lower Upper
117 100
82 52.6 42.9 64.3
119 32.0 26.0 39.0

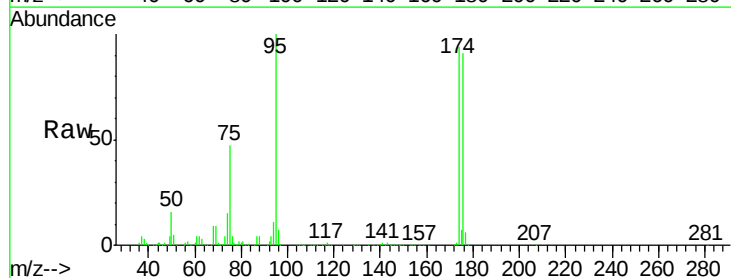


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

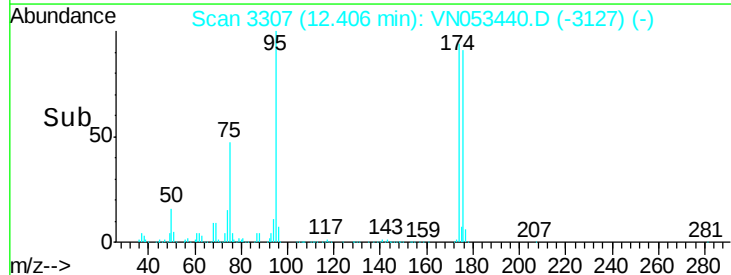
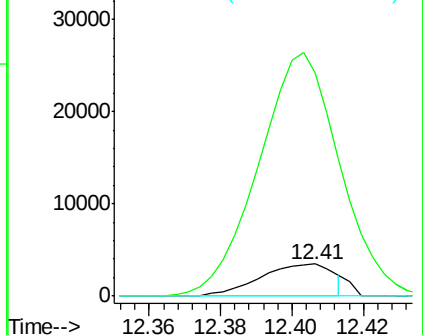


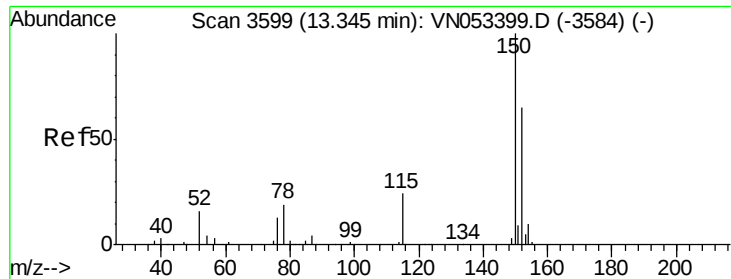
#71
Bromoform
Concen: 0.688 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN053440.D
Acq: 17 Jan 2019 17:46

Tgt Ion:173 Resp: 4948
Ion Ratio Lower Upper
173 100
175 740.0 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

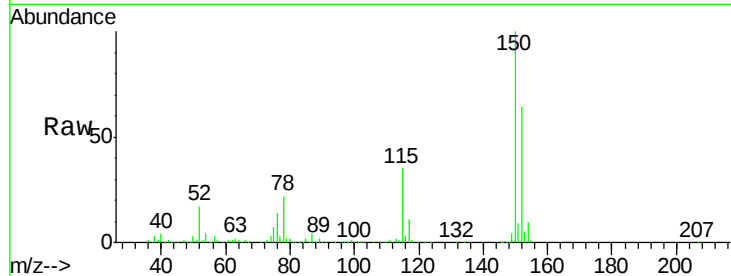




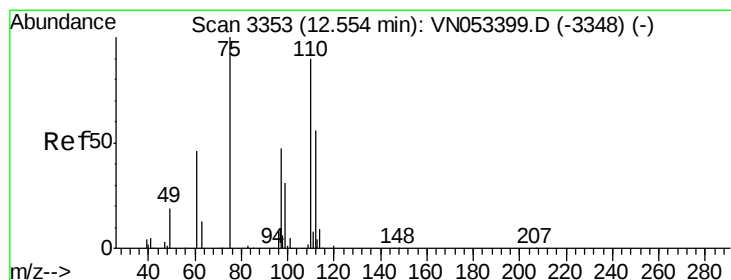
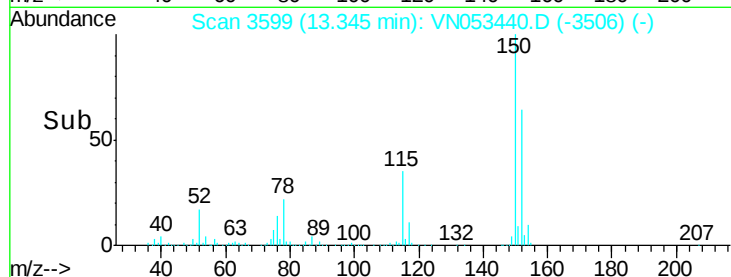
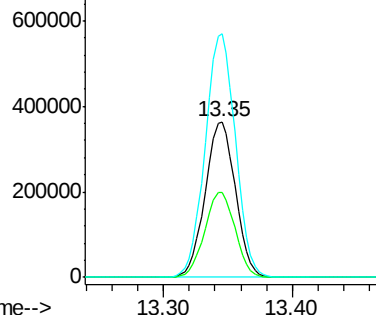
#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053440.D
Acq: 17 Jan 2019 17:46

Tot Ion	Ratio	Lower	Upper
152	100		
115	54.8	27.8	83.4
150	156.5	0.0	349.0



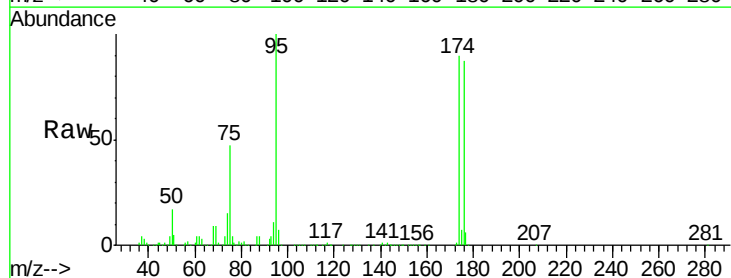
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



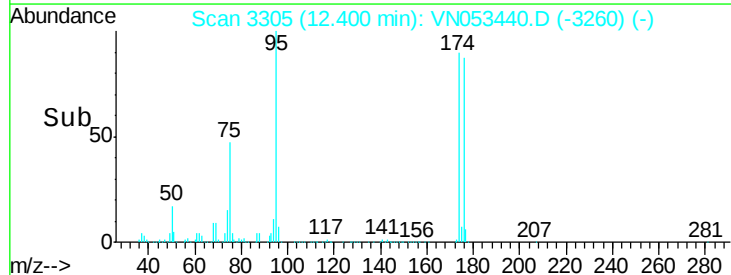
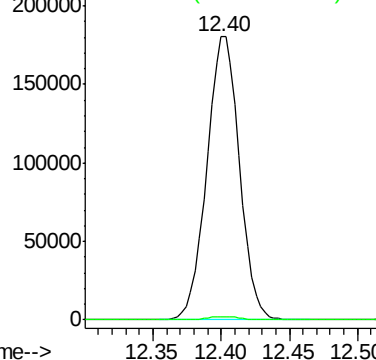
#76

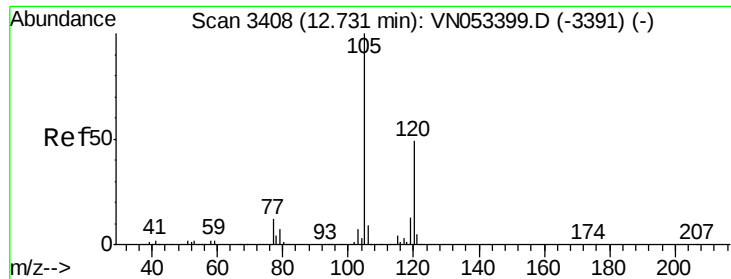
1,2,3-Trichloropropane
Concen: 38.290 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN053440.D
Acq: 17 Jan 2019 17:46

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.2	0.0	0.0#



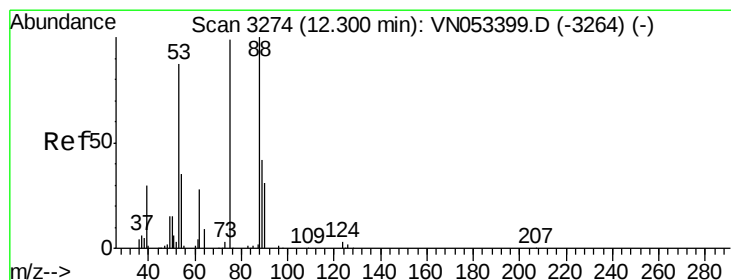
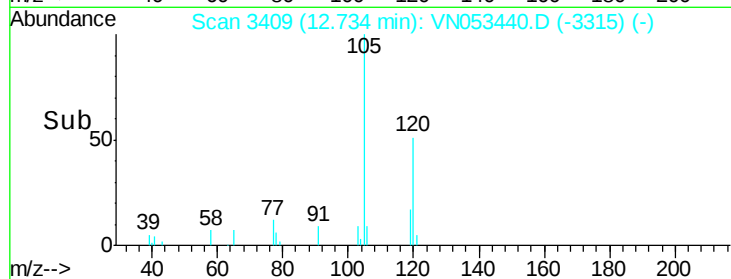
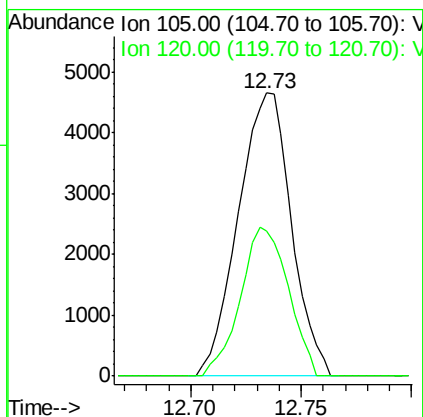
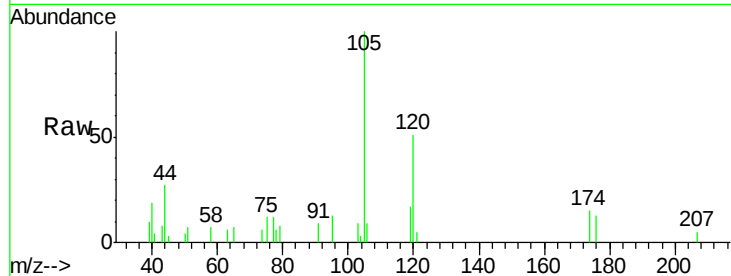
Abundance Ion 74.90 (74.60 to 75.60): V
Ion 77.00 (76.70 to 77.70): V





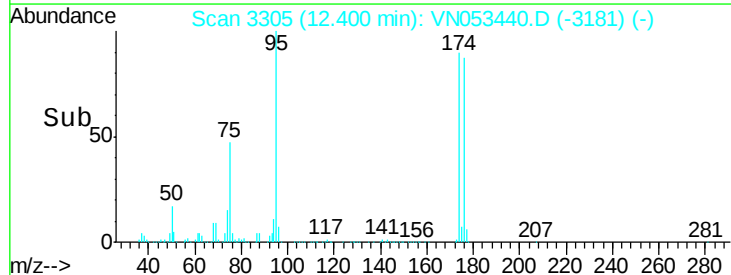
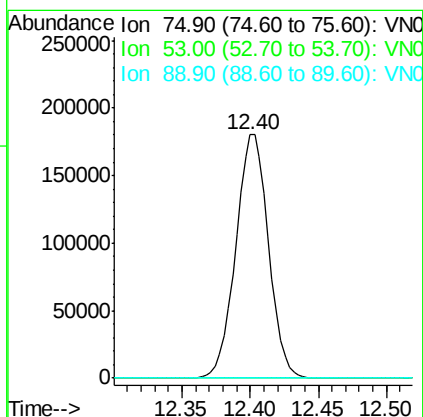
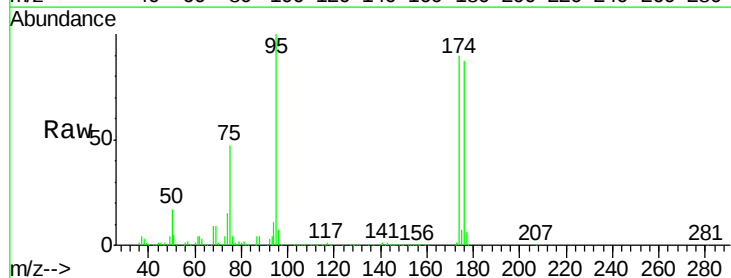
#80
 1,3,5-Trimethylbenzene
 Concen: 0.220 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN053440.D
 Acq: 17 Jan 2019 17:46

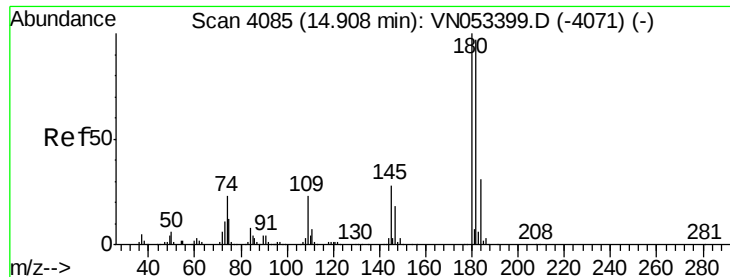
Tot Ion: 105 Resp: 7789
 Ion Ratio Lower Upper
 105 100
 120 47.3 24.9 74.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 94.527 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN053440.D
 Acq: 17 Jan 2019 17:46

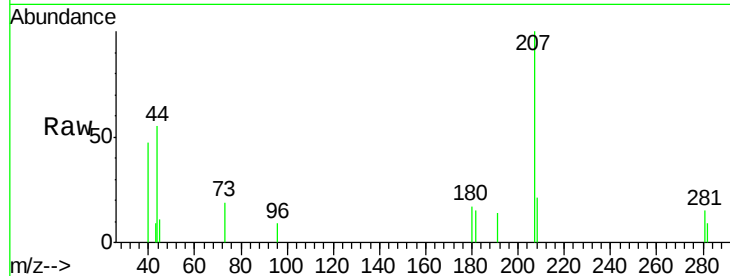
Tgt Ion: 75 Resp: 299239
 Ion Ratio Lower Upper
 75 100
 53 0.0 69.8 104.6#
 89 0.0 35.6 53.4#



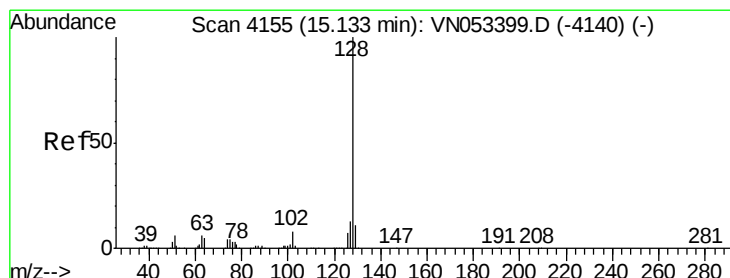
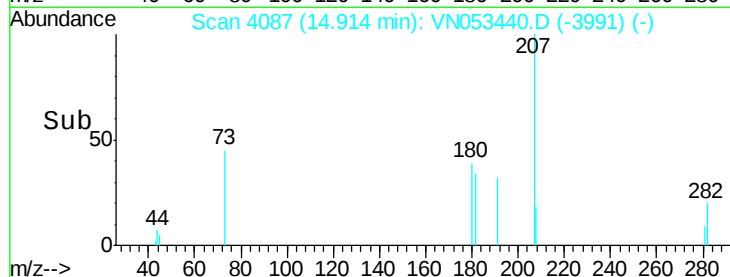
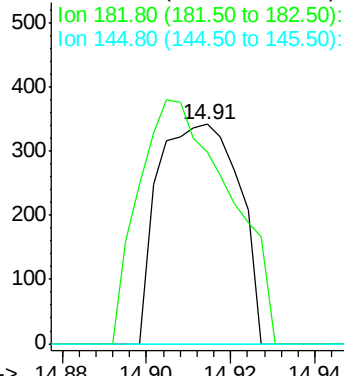


#93
 1,2,4-Trichlorobenzene
 Concen: 2.819 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.01 min
 Lab File: VN053440.D
 Acq: 17 Jan 2019 17:46

Tot Ion	Ratio	Lower	Upper
180	100		
182	124.3	48.1	144.3
145	0.0	13.9	41.6

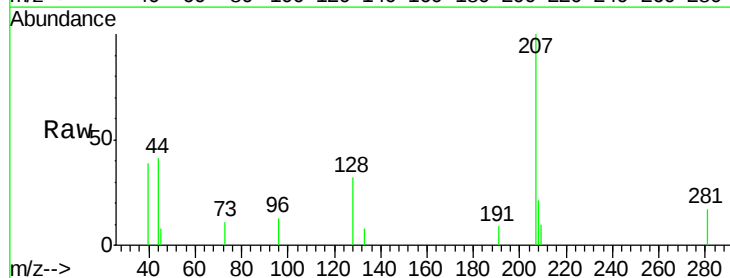


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

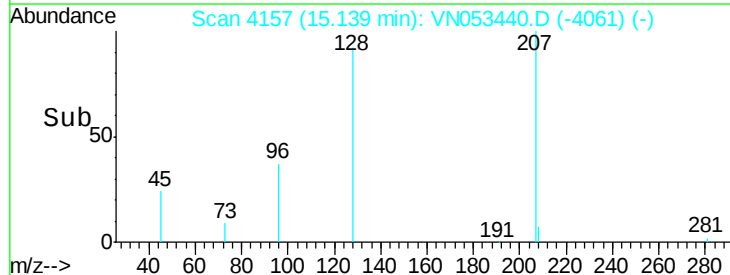
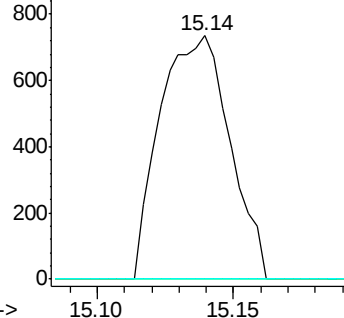


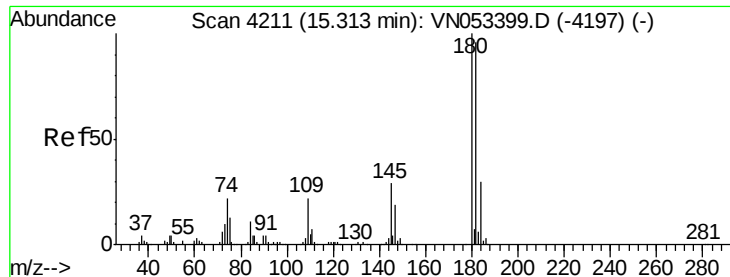
#95
 Naphthalene
 Concen: 4.023 ug/l
 RT: 15.14 min Scan# 4157
 Delta R.T. 0.01 min
 Lab File: VN053440.D
 Acq: 17 Jan 2019 17:46

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5
129	0.0	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





#96
 1,2,3-Trichlorobenzene
 Concen: 4.008 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN053440.D
 Acq: 17 Jan 2019 17:46

Tot Ion:180	Resp: 676
Ion Ratio	Lower Upper
180 100	
182 88.5	47.9 143.8
145 18.8	14.7 44.1

