

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN011719\
 Data File : VN053455.D
 Acq On : 18 Jan 2019 00:27
 Operator : JC/SP
 Sample : PB116439ZHE#17
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 28

Quant Time: Jan 18 01:30:50 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	906474	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1426434	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1365269	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	613739	50.00	ug/l	0.00

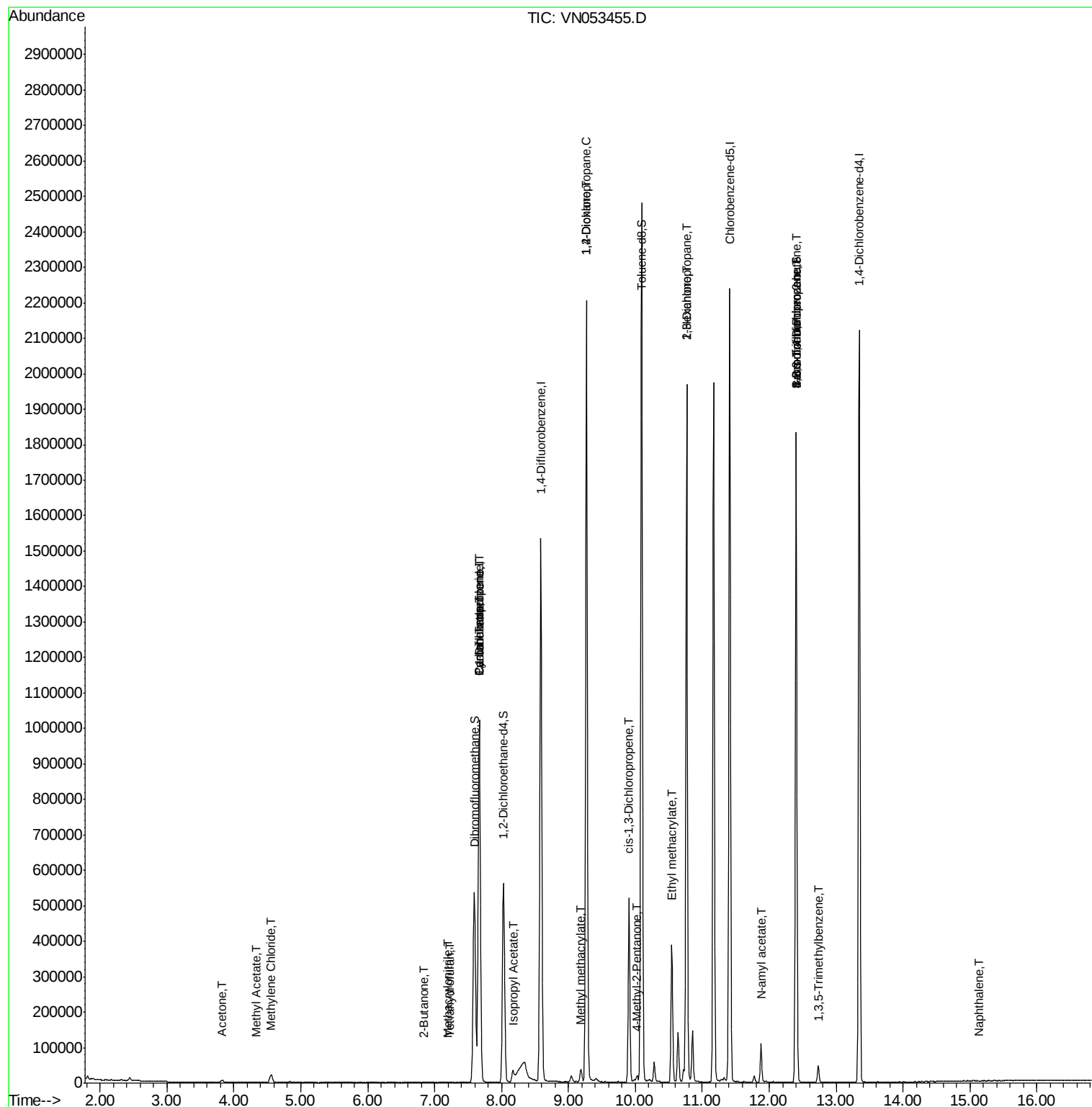
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	467651	52.20	ug/l	0.00
Spiked Amount			Recovery	=	104.40%	
35) Dibromofluoromethane	7.59	113	411956	50.60	ug/l	0.00
Spiked Amount			Recovery	=	101.20%	
50) Toluene-d8	10.09	98	1785747	51.87	ug/l	0.00
Spiked Amount			Recovery	=	103.74%	
62) 4-Bromofluorobenzene	12.40	95	624115	51.70	ug/l	0.00
Spiked Amount			Recovery	=	103.40%	

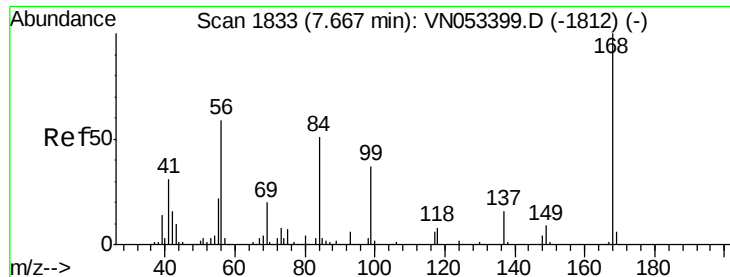
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	12204	5.806	ug/l	92
18) Methyl Acetate	4.33	43	4000	0.565	ug/l #	80
20) Methylene Chloride	4.56	84	17937	1.869	ug/l	98
25) 2-Butanone	6.84	43	1046	0.323	ug/l #	47
29) Tetrahydrofuran	7.21	42	1992	0.945	ug/l #	55
31) Cyclohexane	7.67	56	14097	0.675	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	58551	4.507	ug/l #	49
38) Carbon Tetrachloride	7.67	117	78690	6.398	ug/l #	15
41) Methacrylonitrile	7.20	41	103	0.690	ug/l #	14
43) Isopropyl Acetate	8.17	43	44424	3.306	ug/l #	80
45) 1,2-Dichloropropane	9.27	63	2485	0.238	ug/l #	43
48) Methyl methacrylate	9.18	41	12662	1.825	ug/l #	12
49) 1,4-Dioxane	9.27	88	65	0.959	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	13076	1.782	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	96056	6.399	ug/l #	63
56) Ethyl methacrylate	10.54	69	1441	2.173	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	21395	1.464	ug/l #	43
59) 2-Hexanone	10.76	43	276337	53.658	ug/l #	49
71) Bromoform	12.40	173	4180	0.604	ug/l #	1
74) N-amyl acetate	11.88	43	33084	2.761	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	290596	35.930	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	24315	0.665	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	290596	88.855	ug/l #	15
95) Naphthalene	15.14	128	31	3.941	ug/l #	69

(#) = 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: VN053455.D

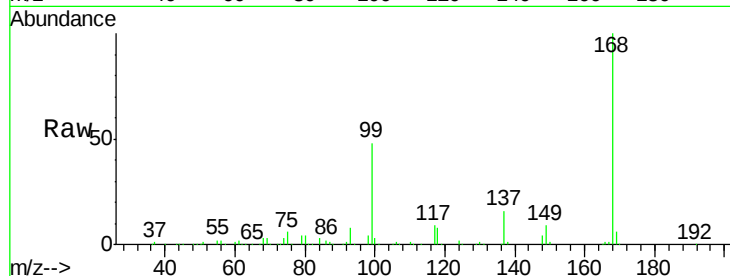
Acq: 18 Jan 2019 00:27

Tot Ion:168 Resp: 906474

Ion Ratio Lower Upper

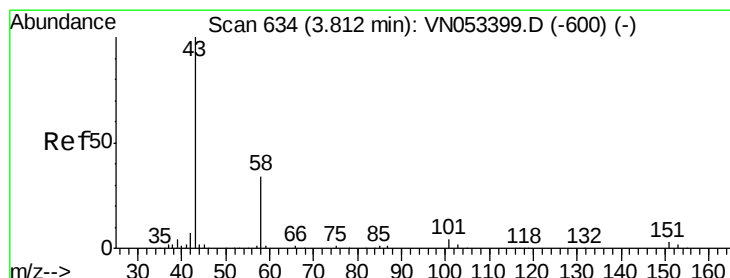
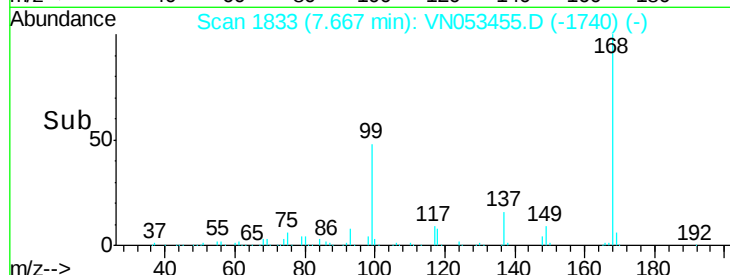
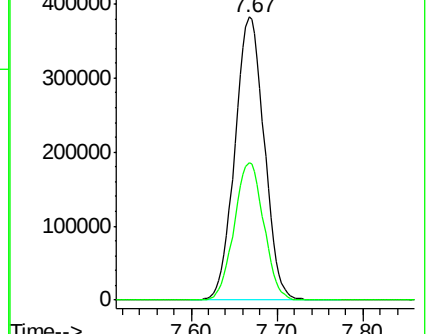
168 100

99 48.3 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: 5.806 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN053455.D

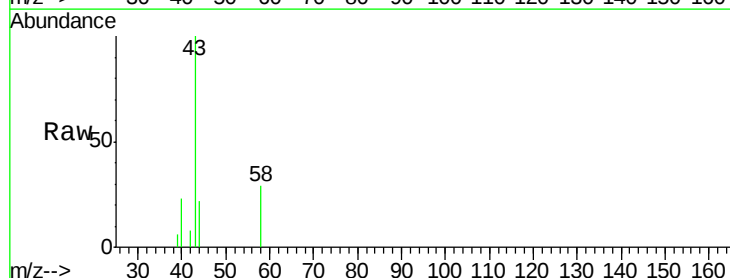
Acq: 18 Jan 2019 00:27

Tgt Ion: 43 Resp: 12204

Ion Ratio Lower Upper

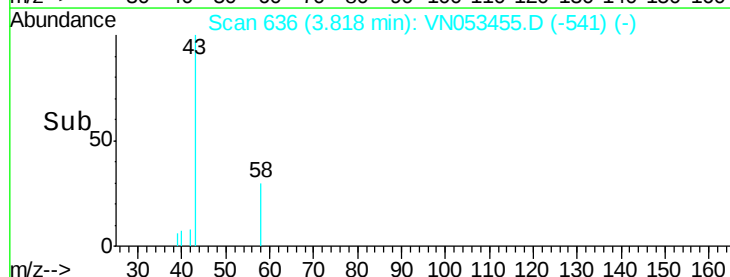
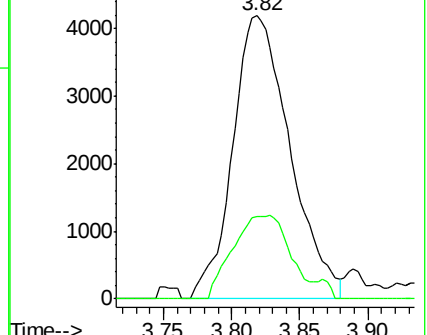
43 100

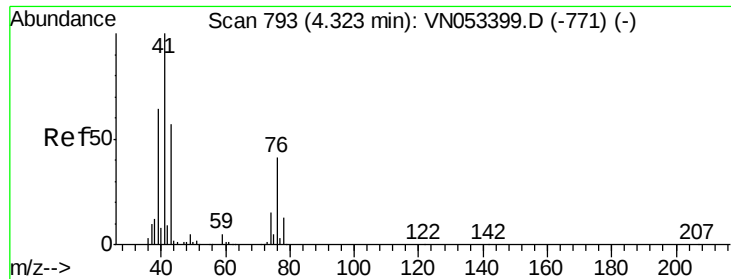
58 29.1 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VNO

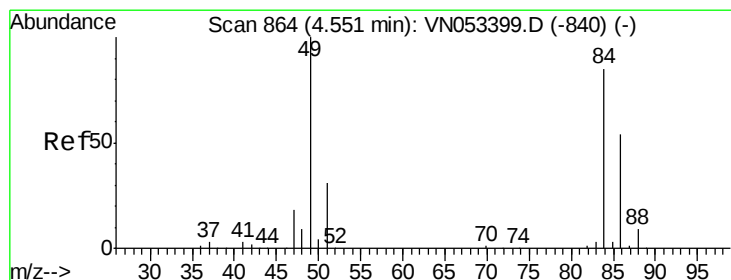
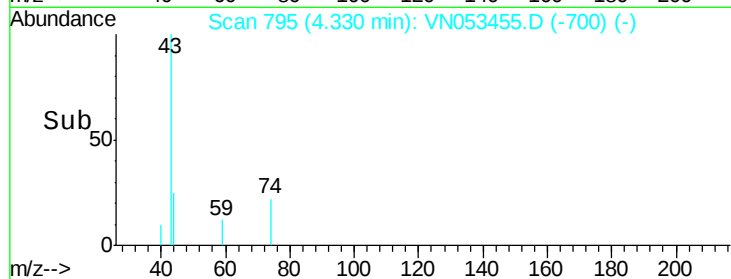
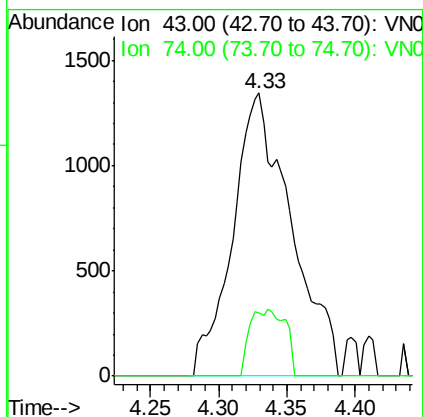
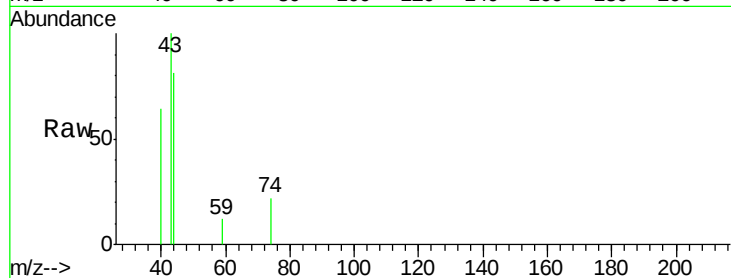
Ion 58.00 (57.70 to 58.70): VNO





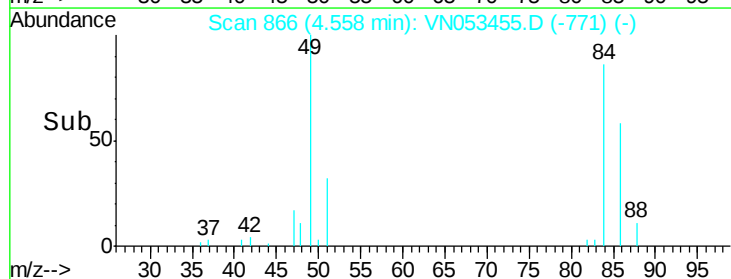
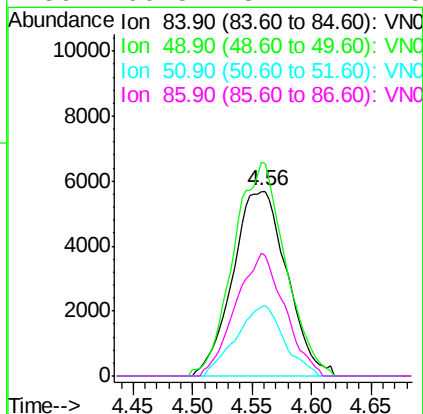
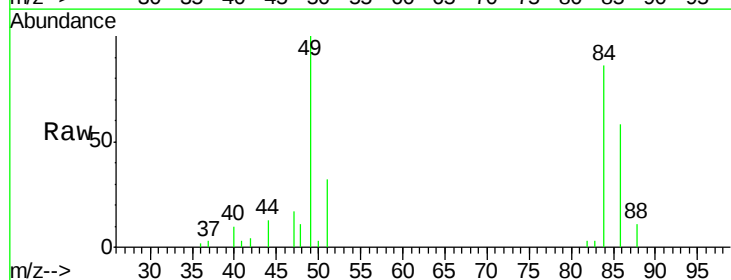
#18
Methyl Acetate
Concen: 0.565 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.01 min
Lab File: VN053455.D
Acq: 18 Jan 2019 00:27

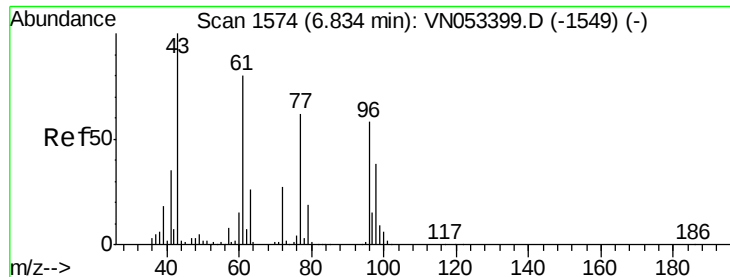
Tot Ion: 43 Resp: 4000
Ion Ratio Lower Upper
43 100
74 14.3 19.4 29.2#



#20
Methylene Chloride
Concen: 1.869 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN053455.D
Acq: 18 Jan 2019 00:27

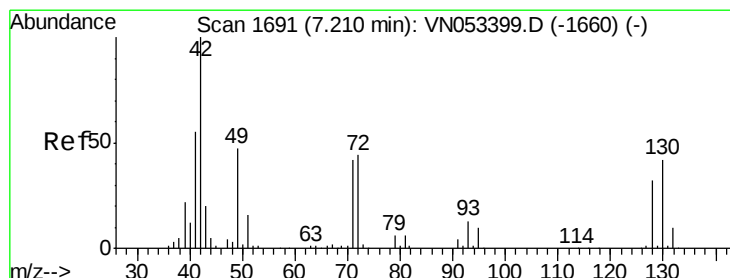
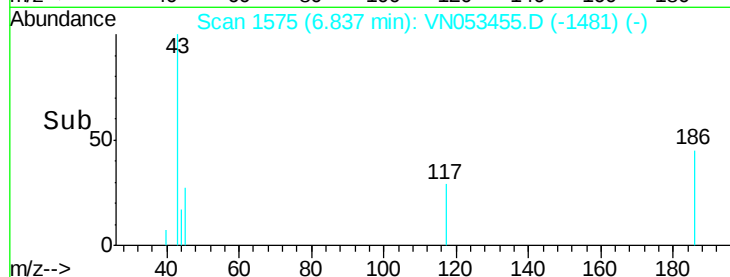
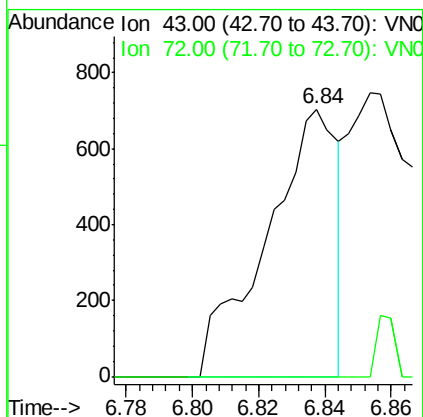
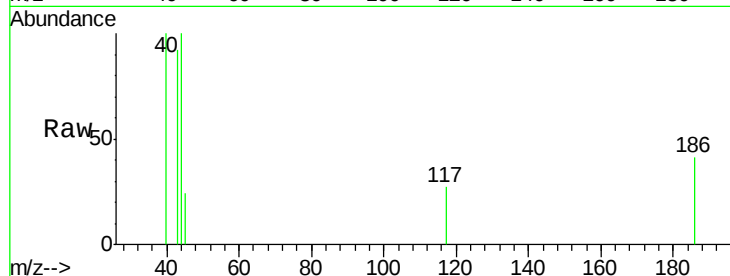
Tgt Ion: 84 Resp: 17937
Ion Ratio Lower Upper
84 100
49 115.9 94.3 141.5
51 37.6 29.4 44.2
86 66.8 51.4 77.0





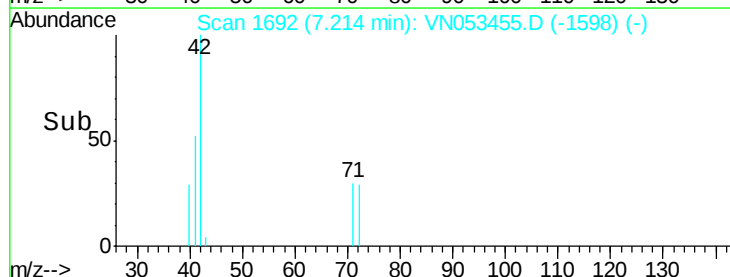
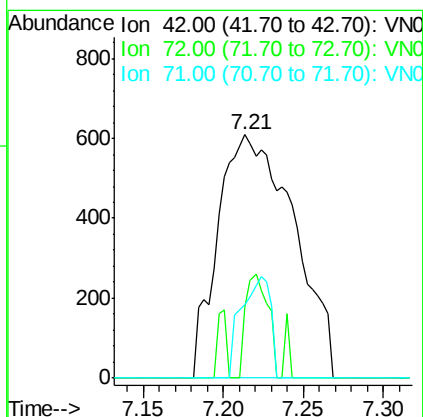
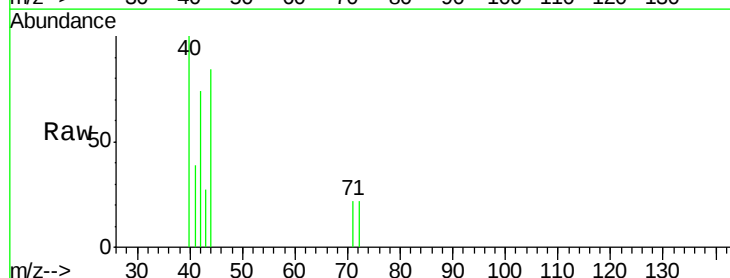
#25
2-Butanone
Concen: 0.323 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VN053455.D
Acq: 18 Jan 2019 00:27

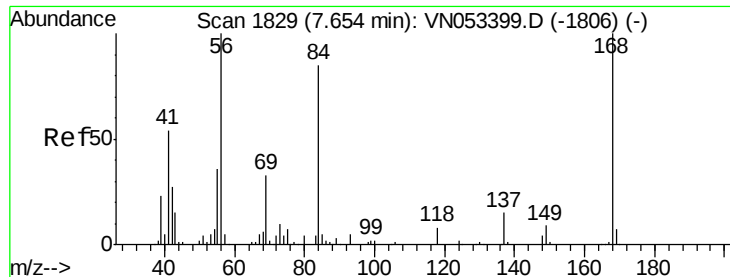
Tot Ion: 43 Resp: 1046
Ion Ratio Lower Upper
43 100
72 0.0 22.0 33.0#



#29
Tetrahydrofuran
Concen: 0.945 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN053455.D
Acq: 18 Jan 2019 00:27

Tgt Ion: 42 Resp: 1992
Ion Ratio Lower Upper
42 100
72 12.1 35.2 52.8#
71 15.8 33.0 49.4#





#31

Cyclohexane

Concen: 0.675 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN053455.D

Acq: 18 Jan 2019 00:27

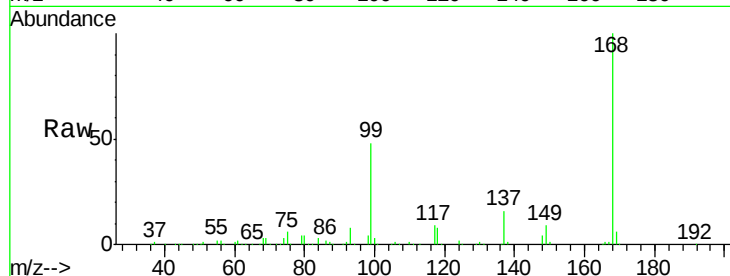
Tot Ion: 56 Resp: 14097

Ion Ratio Lower Upper

56 100

69 212.1 26.4 39.6#

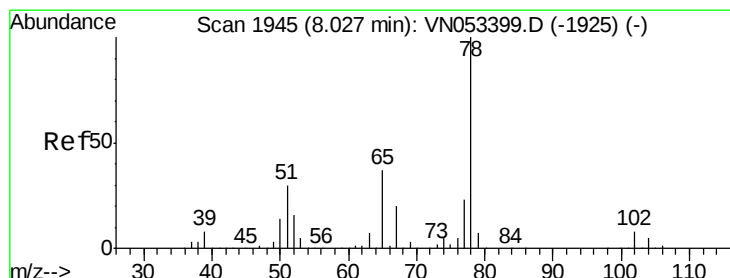
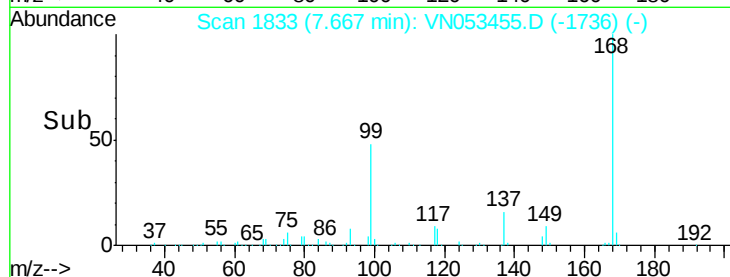
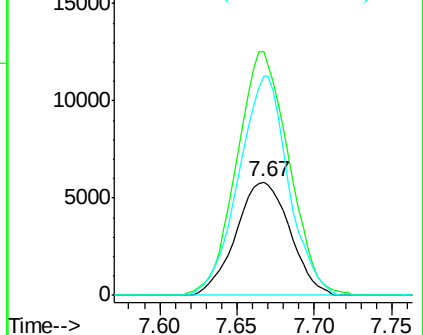
84 193.7 67.9 101.9#



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: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053455.D

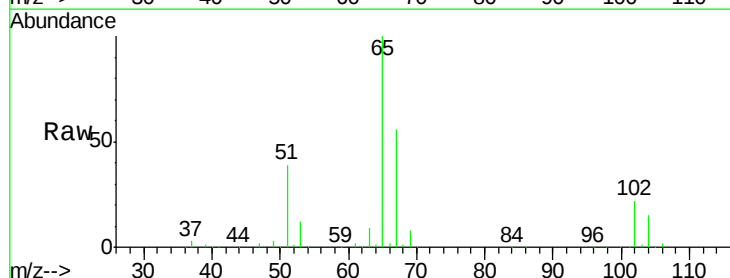
Acq: 18 Jan 2019 00:27

Tgt Ion: 65 Resp: 467651

Ion Ratio Lower Upper

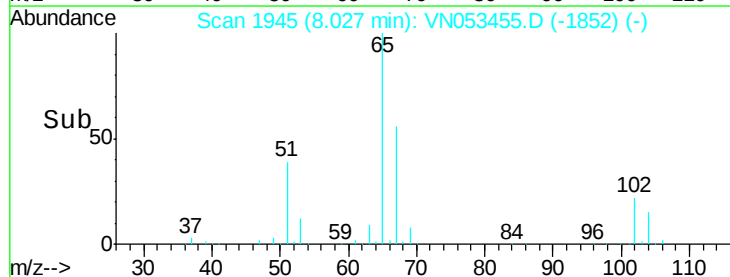
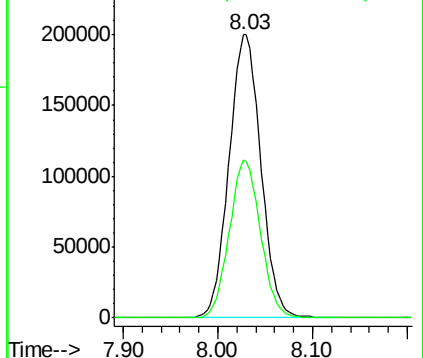
65 100

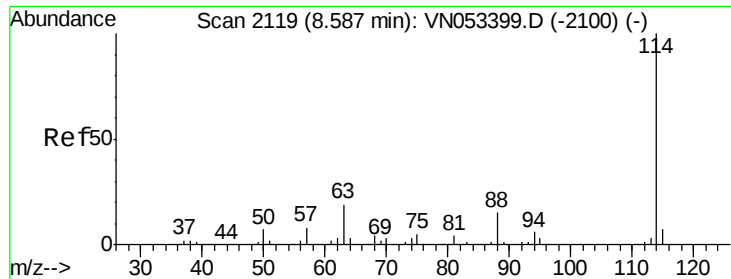
67 54.6 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

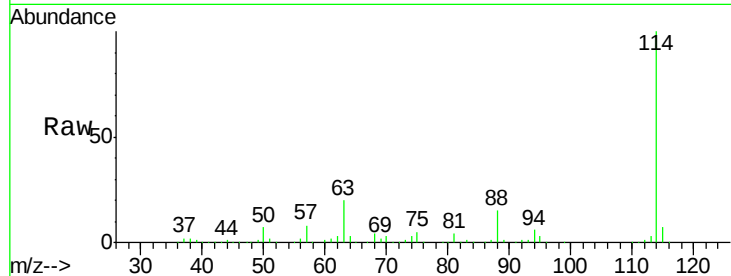




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053455.D
 Acq: 18 Jan 2019 00:27

Tot Ion:114 Resp: 1426434

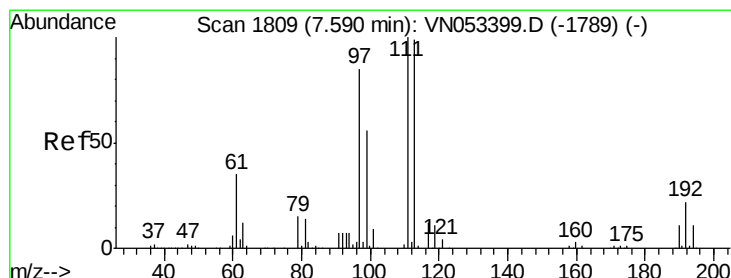
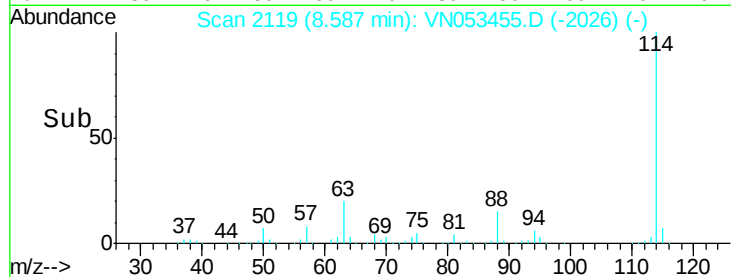
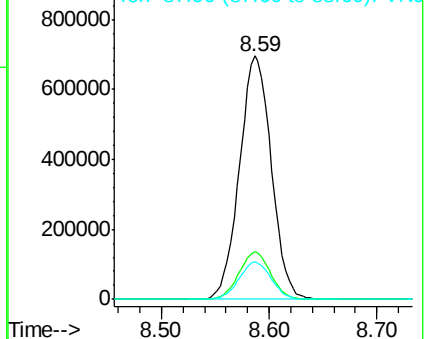
Ion	Ratio	Lower	Upper
114	100		
63	19.5	0.0	38.6
88	15.3	0.0	30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

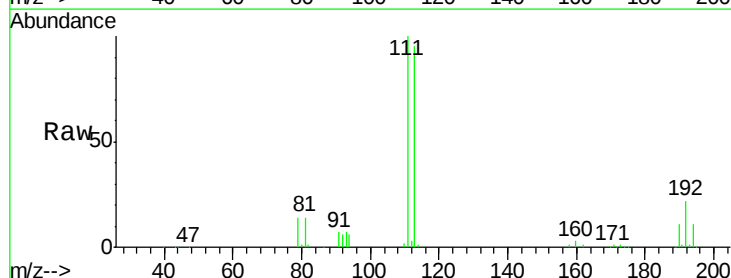
Ion 87.90 (87.60 to 88.60): VN



#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053455.D
 Acq: 18 Jan 2019 00:27

Tgt Ion:113 Resp: 411956

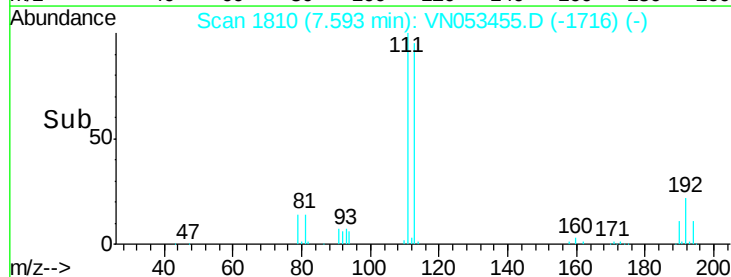
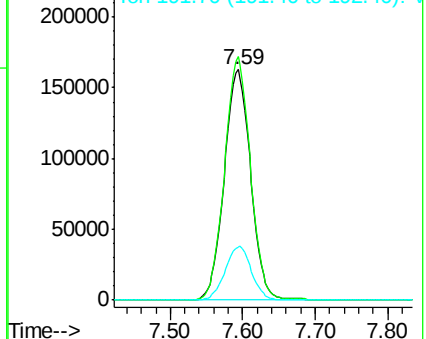
Ion	Ratio	Lower	Upper
113	100		
111	103.7	81.1	121.7
192	23.3	18.2	27.2

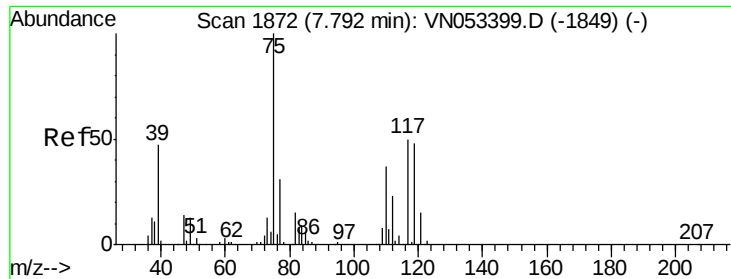


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.507 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053455.D

Acq: 18 Jan 2019 00:27

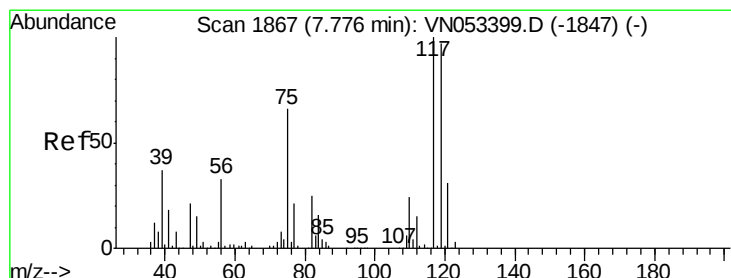
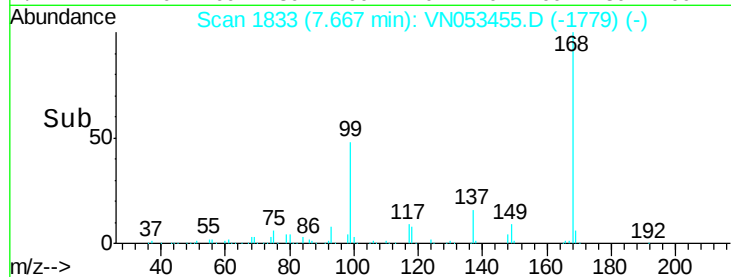
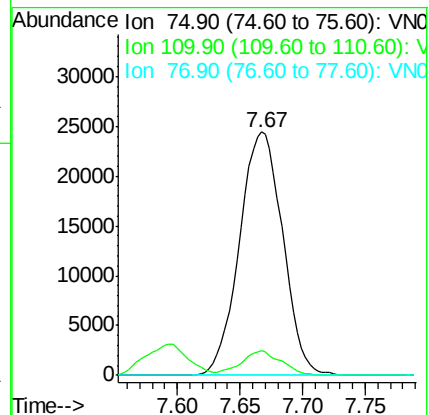
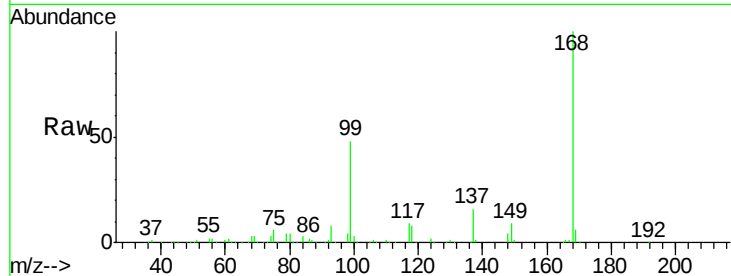
Tot Ion: 75 Resp: 58551

Ion Ratio Lower Upper

75 100

110 9.3 18.1 54.3#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 6.398 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053455.D

Acq: 18 Jan 2019 00:27

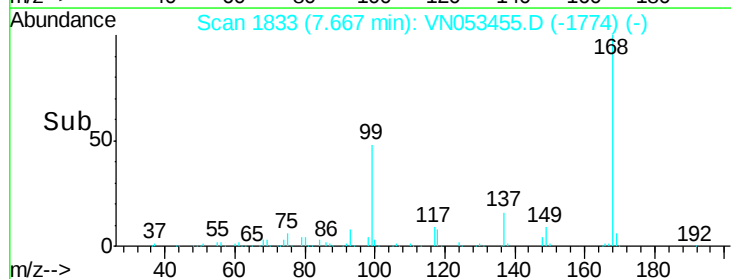
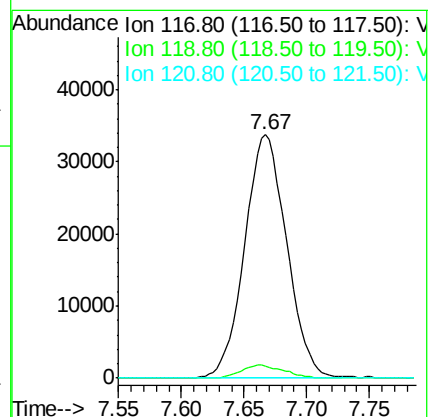
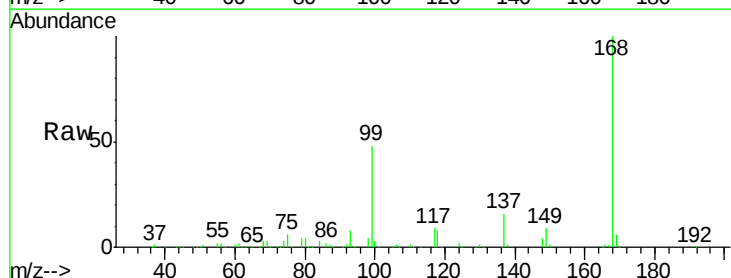
Tgt Ion: 117 Resp: 78690

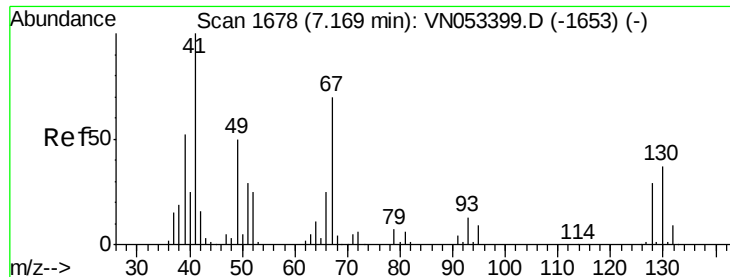
Ion Ratio Lower Upper

117 100

119 4.8 77.2 115.8#

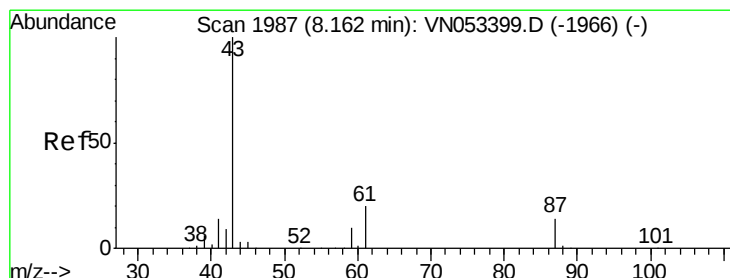
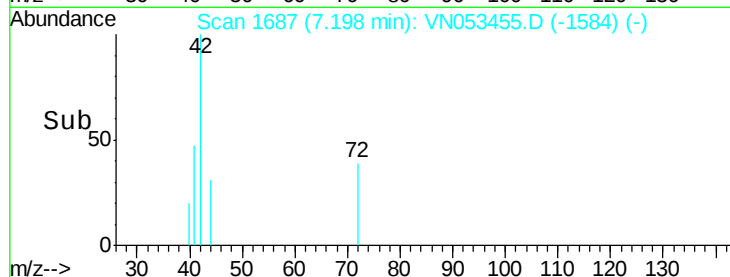
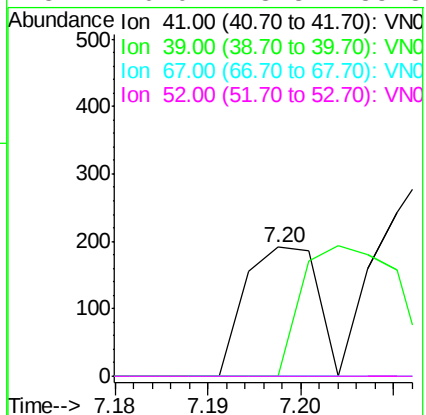
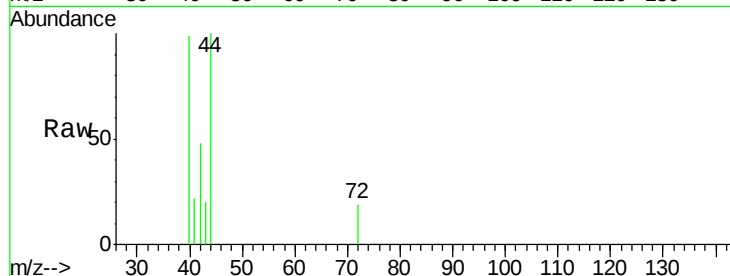
121 0.0 24.6 37.0#





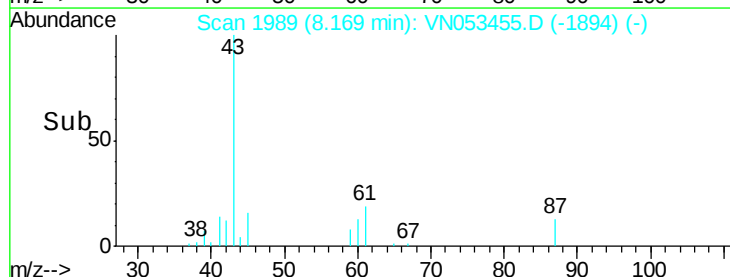
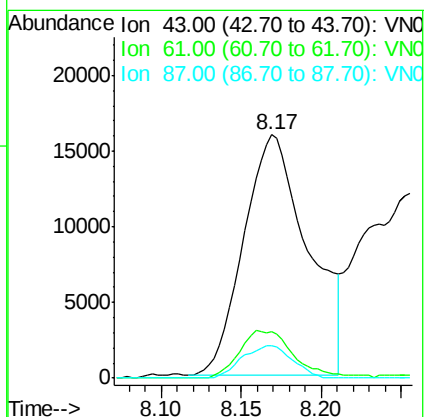
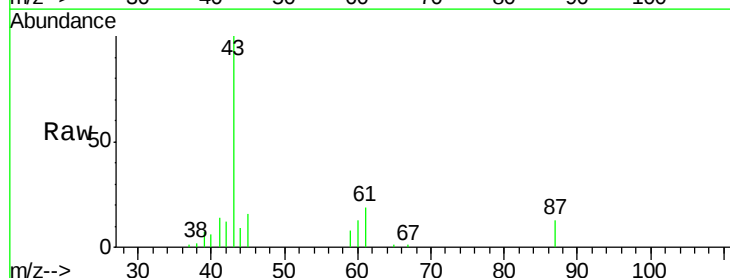
#41
Methacrylonitrile
Concen: 0.690 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.03 min
Lab File: VN053455.D
Acq: 18 Jan 2019 00:27

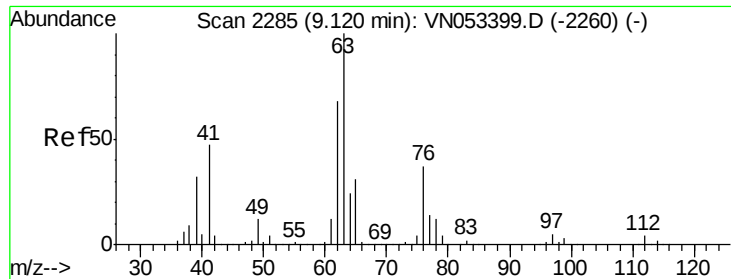
Tot Ion:	41	Resp:	103
Ion	Ratio	Lower	Upper
41	100		
39	131.1	46.8	70.2#
67	0.0	63.0	94.6#
52	0.0	23.8	35.8#



#43
Isopropyl Acetate
Concen: 3.306 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.01 min
Lab File: VN053455.D
Acq: 18 Jan 2019 00:27

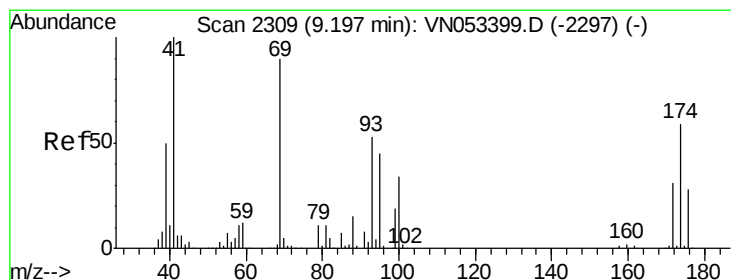
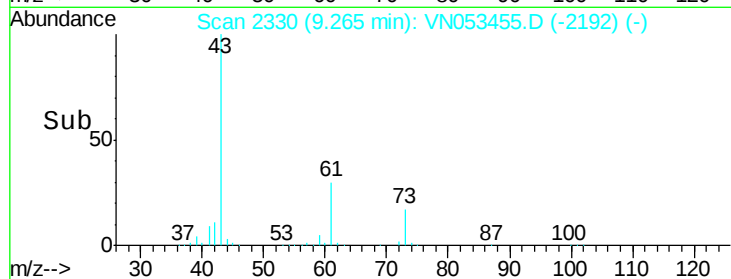
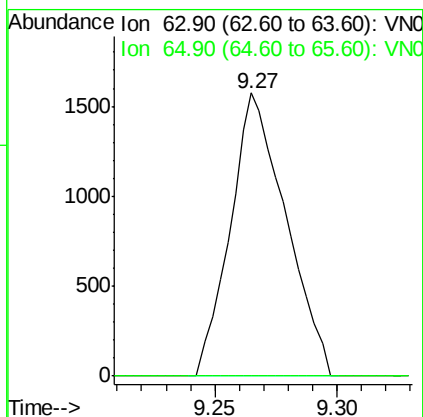
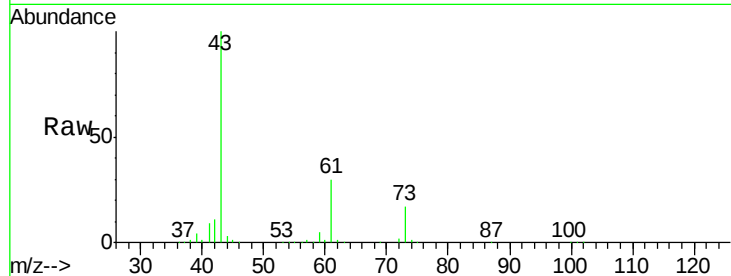
Tgt Ion:	43	Resp:	44424
Ion	Ratio	Lower	Upper
43	100		
61	16.6	23.9	35.9#
87	10.3	11.0	16.6#





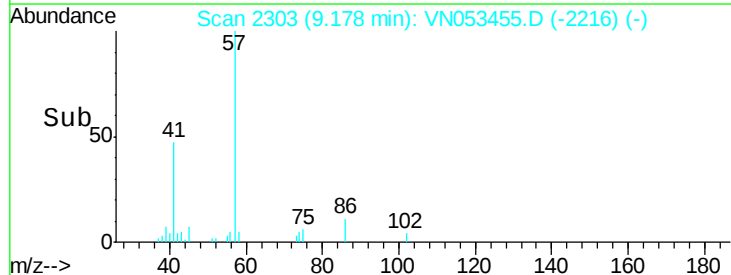
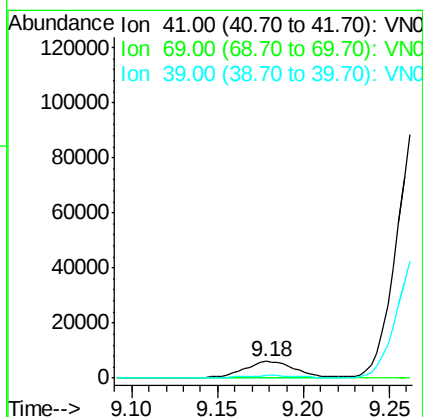
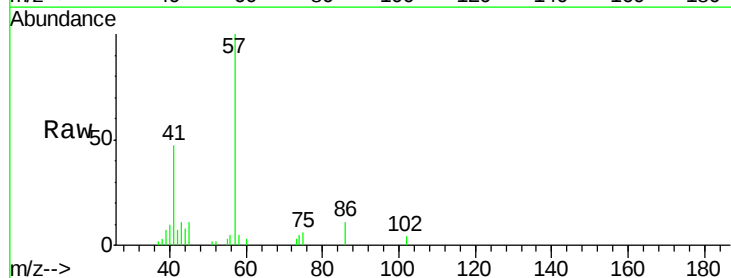
#45
 1,2-Dichloropropane
 Concen: 0.238 ug/l
 RT: 9.27 min Scan# 2330
 Delta R.T. 0.14 min
 Lab File: VN053455.D
 Acq: 18 Jan 2019 00:27

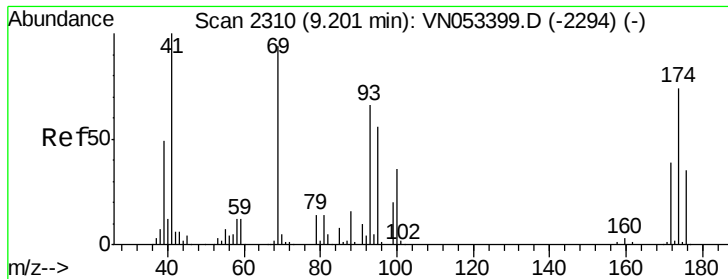
Tot Ion: 63 Resp: 2485
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.825 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN053455.D
 Acq: 18 Jan 2019 00:27

Tgt Ion: 41 Resp: 12662
 Ion Ratio Lower Upper
 41 100
 69 0.0 73.8 110.6#
 39 0.0 40.0 60.0#





#49

1,4-Dioxane

Concen: 0.959 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN053455.D

Acq: 18 Jan 2019 00:27

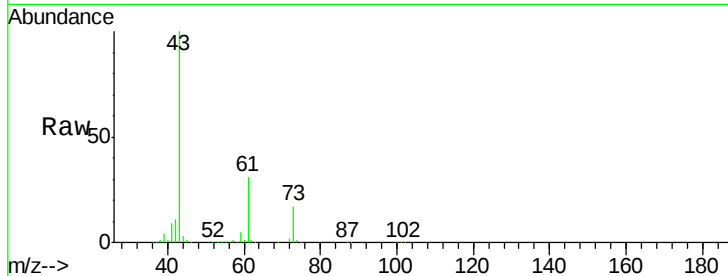
Tot Ion: 88 Resp: 65

Ion Ratio Lower Upper

88 100

43 3239530.8 27.8 41.6#

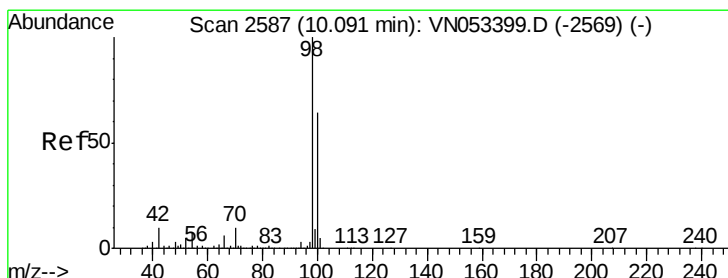
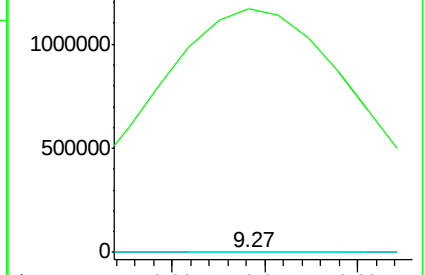
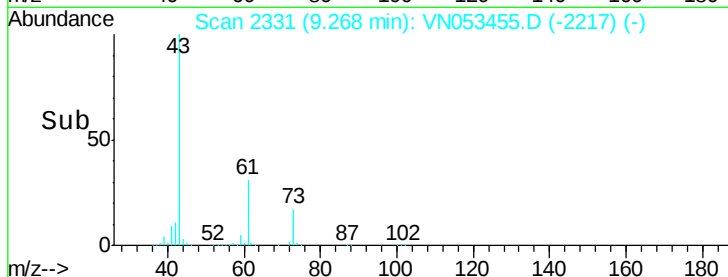
58 15149.2 56.5 84.7#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 0.959 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053455.D

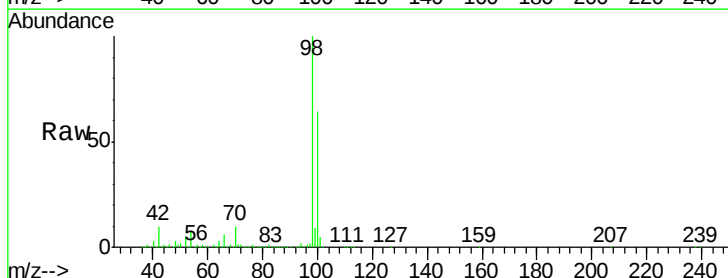
Acq: 18 Jan 2019 00:27

Tgt Ion: 98 Resp: 1785747

Ion Ratio Lower Upper

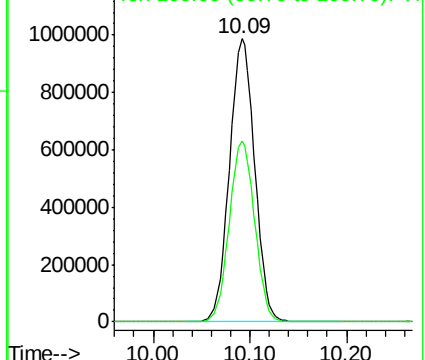
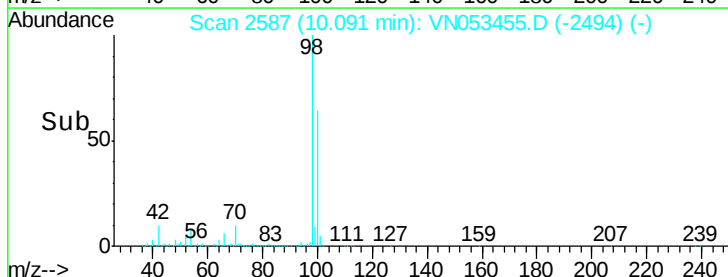
98 100

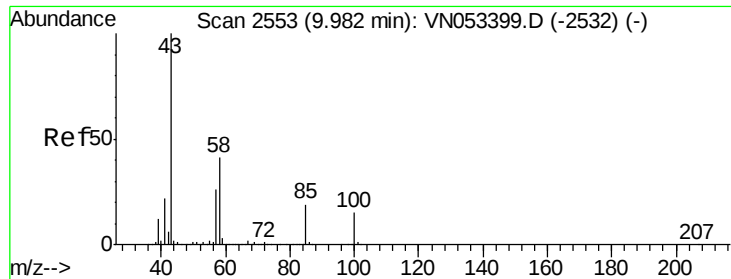
100 64.3 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

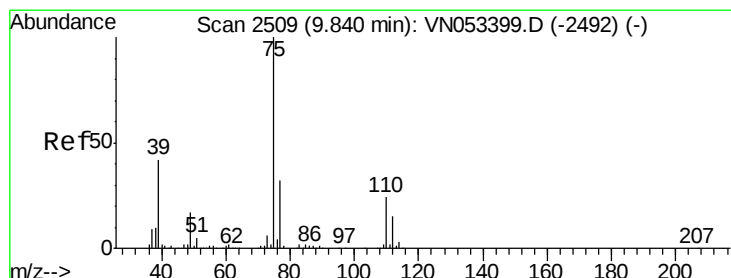
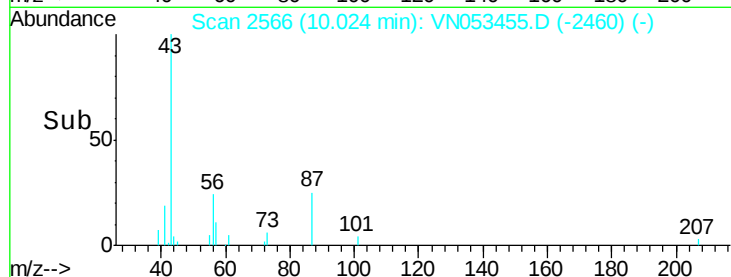
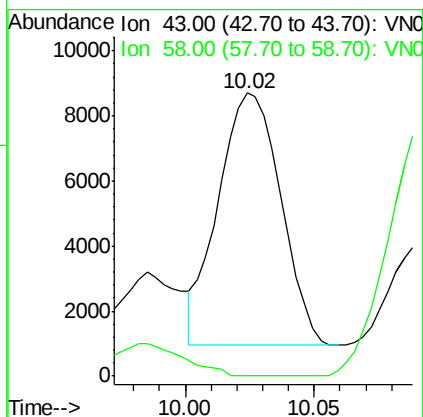
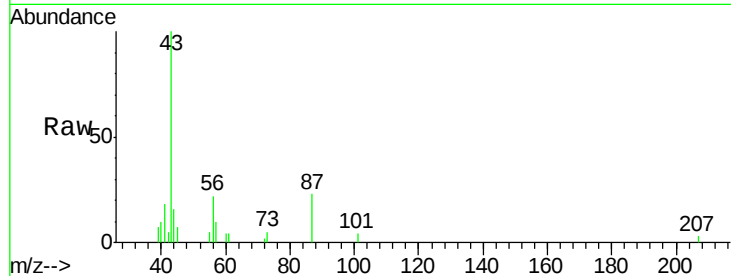
Ion 100.00 (99.70 to 100.70): VN0





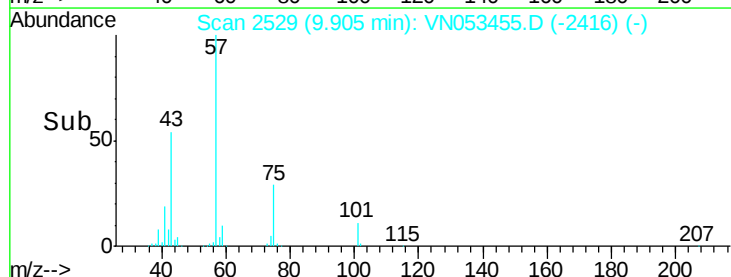
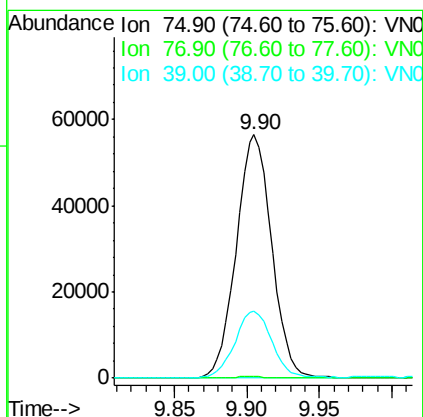
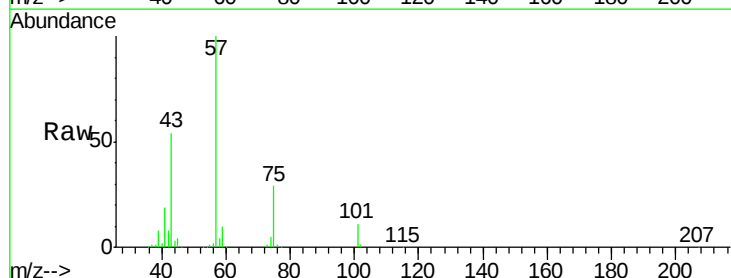
#51
4-Methyl-2-Pentanone
Concen: 1.782 ug/l
RT: 10.02 min Scan# 2566
Delta R.T. 0.04 min
Lab File: VN053455.D
Acq: 18 Jan 2019 00:27

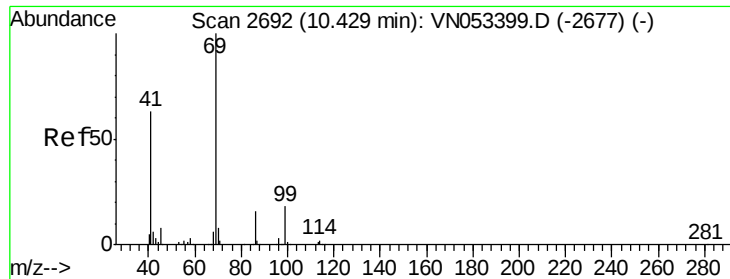
Tot Ion: 43 Resp: 13076
Ion Ratio Lower Upper
43 100
58 0.0 32.8 49.2#



#54
cis-1,3-Dichloropropene
Concen: 6.399 ug/l
RT: 9.90 min Scan# 2529
Delta R.T. 0.06 min
Lab File: VN053455.D
Acq: 18 Jan 2019 00:27

Tgt Ion: 75 Resp: 96056
Ion Ratio Lower Upper
75 100
77 0.7 25.8 38.6#
39 27.3 33.4 50.0#





#56

Ethyl methacrylate

Concen: 2.173 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN053455.D

Acq: 18 Jan 2019 00:27

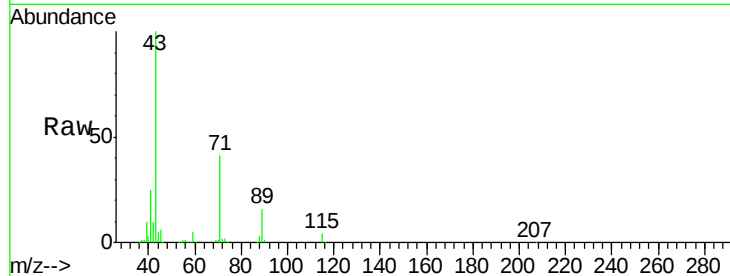
Tot Ion: 69 Resp: 1441

Ion Ratio Lower Upper

69 100

41 4735.5 49.4 74.0#

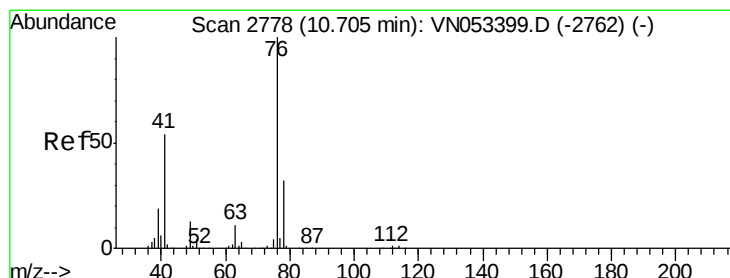
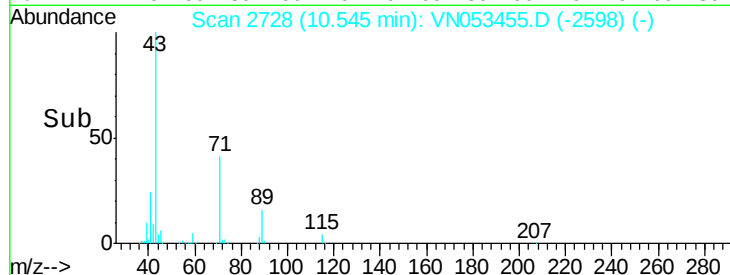
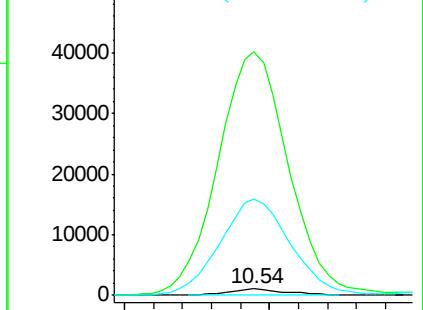
39 1871.1 23.3 34.9#



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: 1.464 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN053455.D

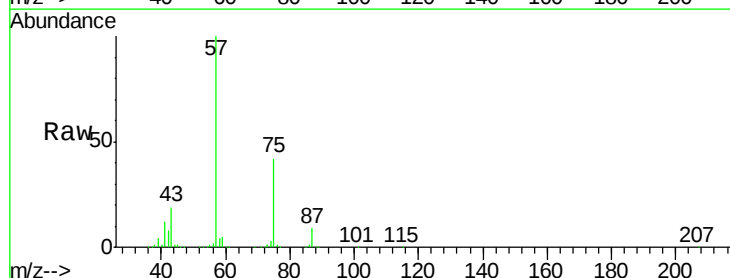
Acq: 18 Jan 2019 00:27

Tgt Ion: 76 Resp: 21395

Ion Ratio Lower Upper

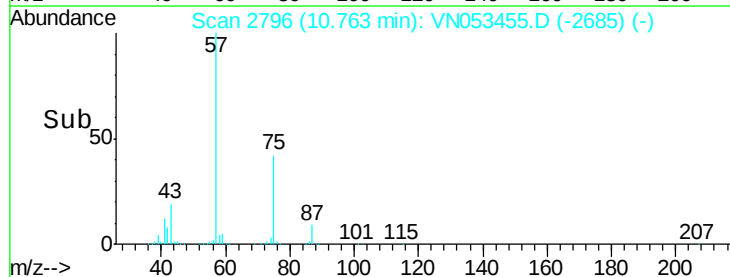
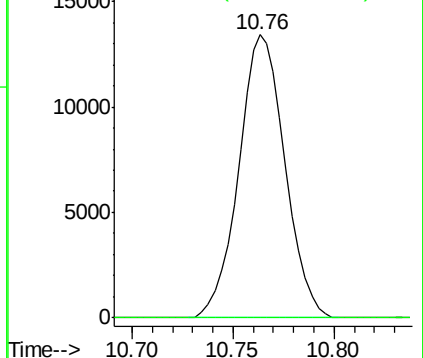
76 100

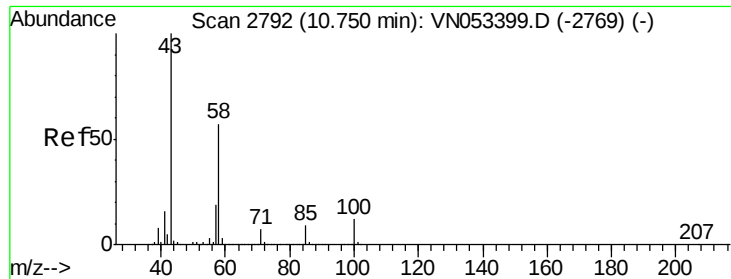
78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

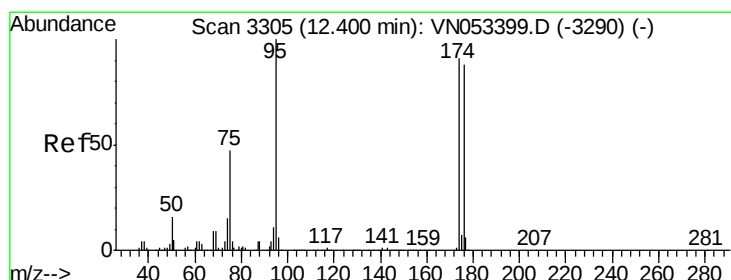
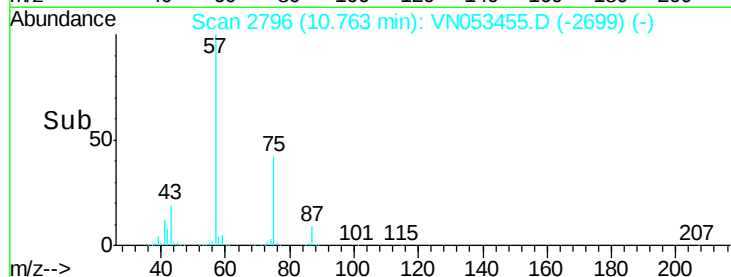
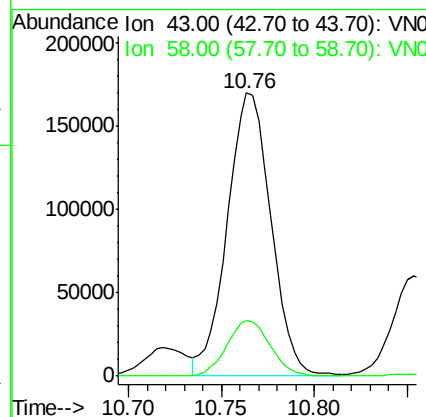
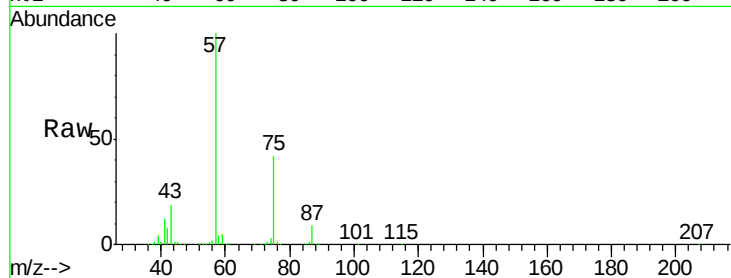
Ion 77.90 (77.60 to 78.60): VN0





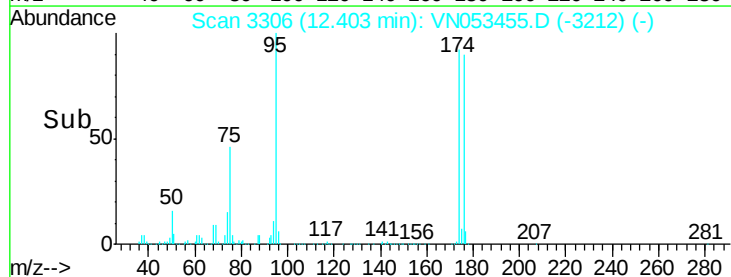
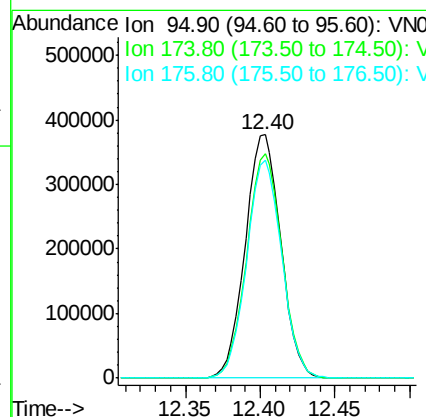
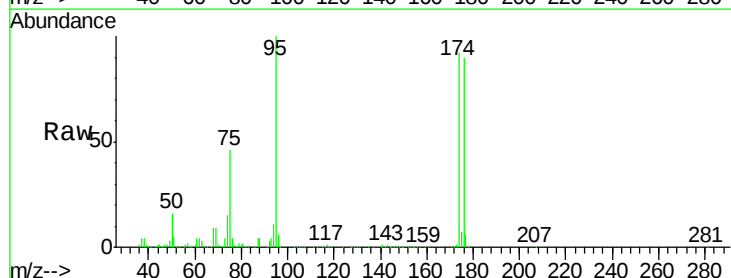
#59
2-Hexanone
Concen: 53.658 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053455.D
Acq: 18 Jan 2019 00:27

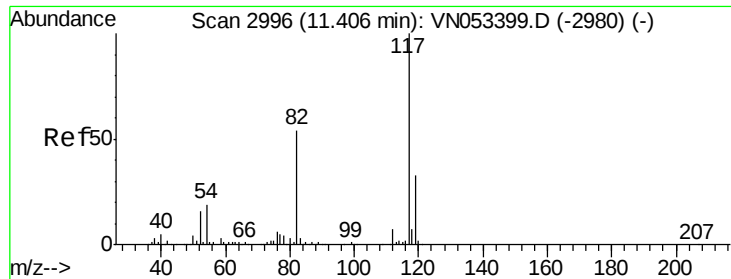
Tot Ion: 43 Resp: 276337
Ion Ratio Lower Upper
43 100
58 19.8 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053455.D
Acq: 18 Jan 2019 00:27

Tgt Ion: 95 Resp: 624115
Ion Ratio Lower Upper
95 100
174 91.5 0.0 183.2
176 88.4 0.0 177.4

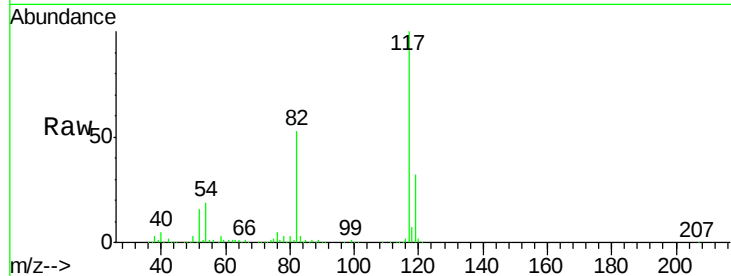




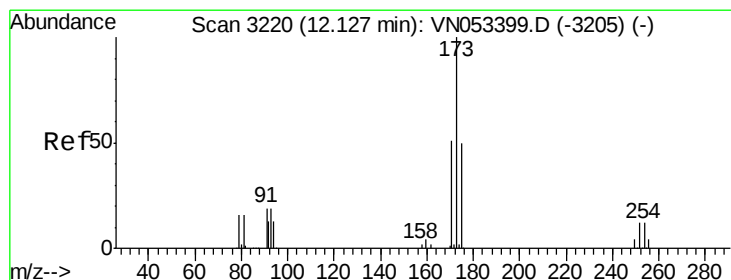
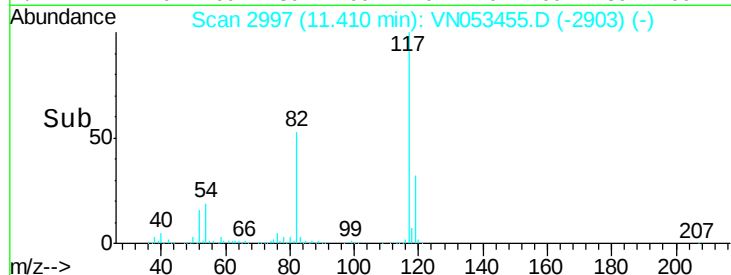
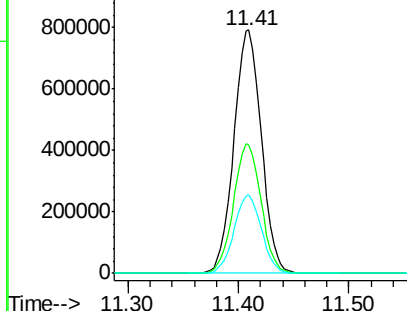
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053455.D
Acq: 18 Jan 2019 00:27

Tot Ion:117 Resp: 1365269

Ion	Ratio	Lower	Upper
117	100		
82	53.0	42.9	64.3
119	32.0	26.0	39.0



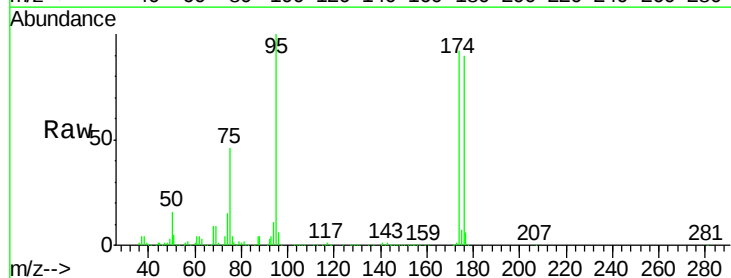
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V



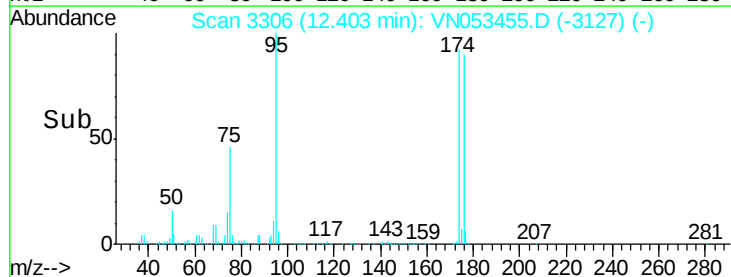
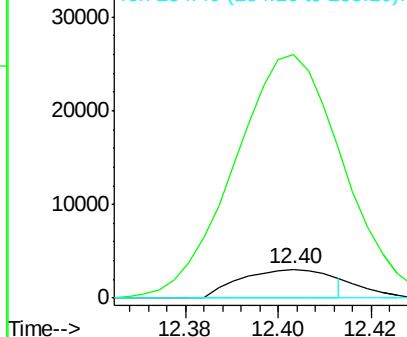
#71
Bromoform
Concen: 0.604 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053455.D
Acq: 18 Jan 2019 00:27

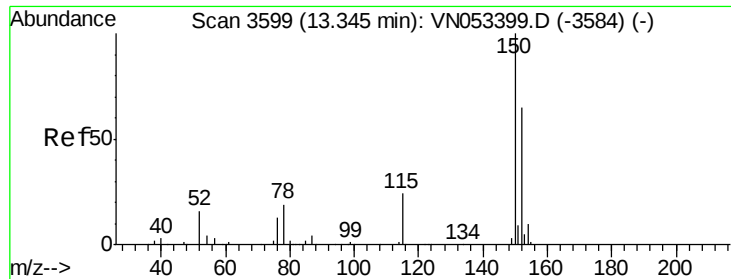
Tgt Ion:173 Resp: 4180

Ion	Ratio	Lower	Upper
173	100		
175	883.8	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

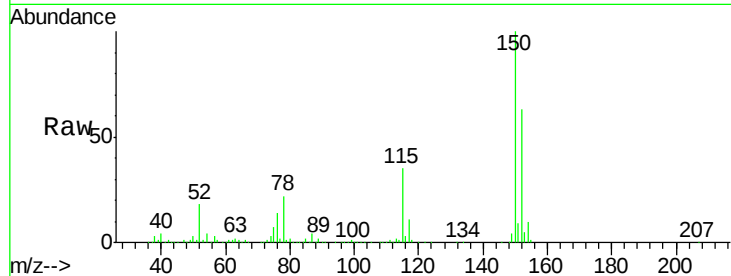




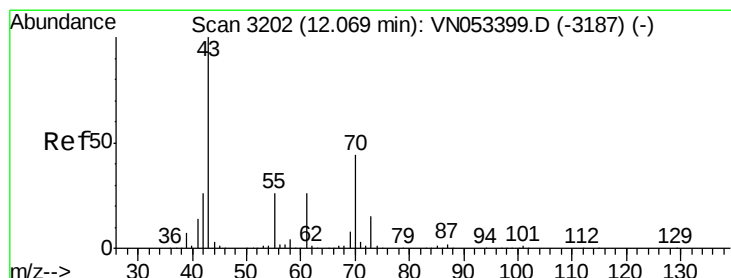
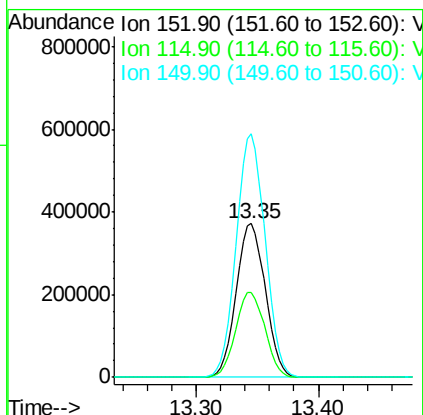
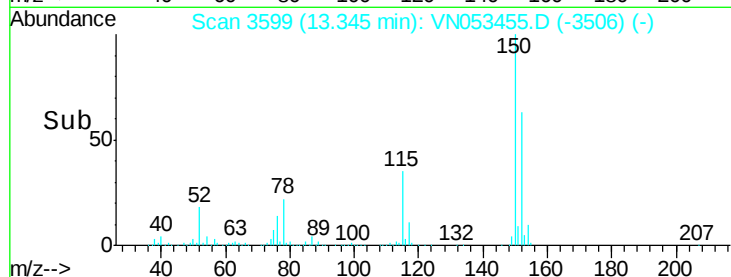
#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053455.D
Acq: 18 Jan 2019 00:27

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.6	27.8	83.4
150	157.3	0.0	349.0



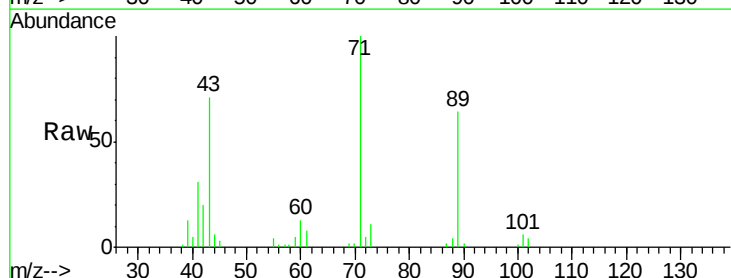
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



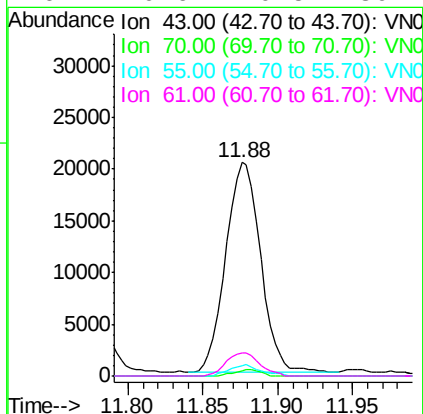
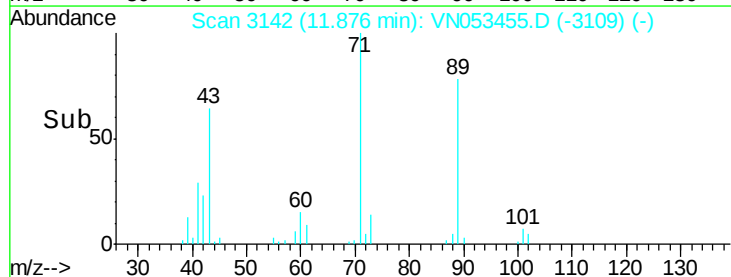
#74

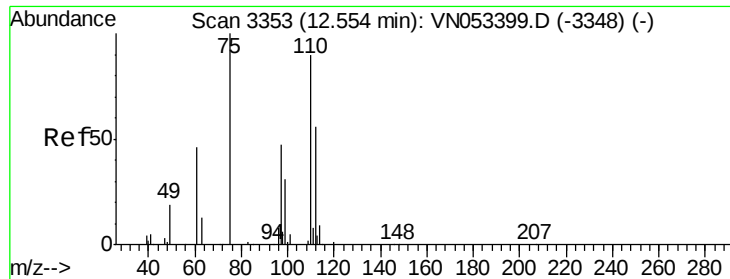
N-ethyl acetate
Concen: 2.761 ug/l
RT: 11.88 min Scan# 3142
Delta R.T. -0.19 min
Lab File: VN053455.D
Acq: 18 Jan 2019 00:27

Tgt Ion	Ratio	Lower	Upper
43	100		
70	2.2	35.4	53.2#
55	4.8	20.9	31.3#
61	10.6	20.5	30.7#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 70.00 (69.70 to 70.70): V
Ion 55.00 (54.70 to 55.70): V
Ion 61.00 (60.70 to 61.70): V

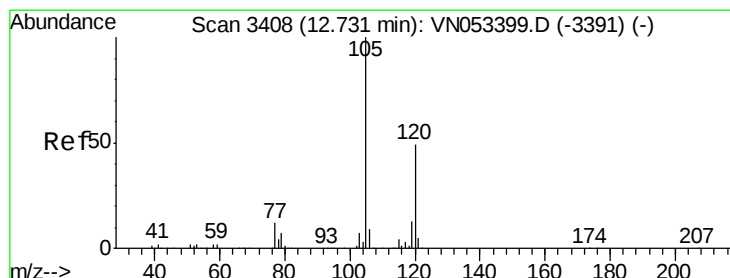
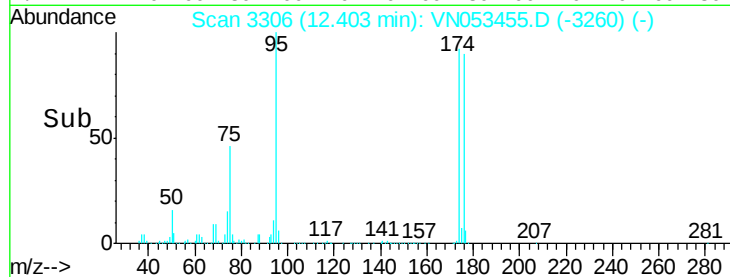
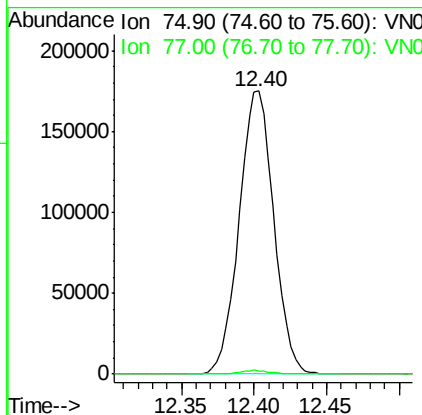
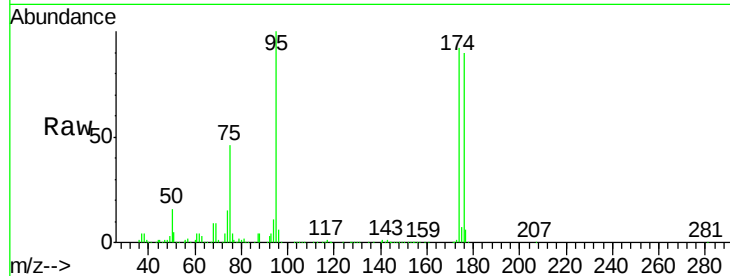




#76

1,2,3-Trichloropropane
Concen: 35.930 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.15 min
Lab File: VN053455.D
Acq: 18 Jan 2019 00:27

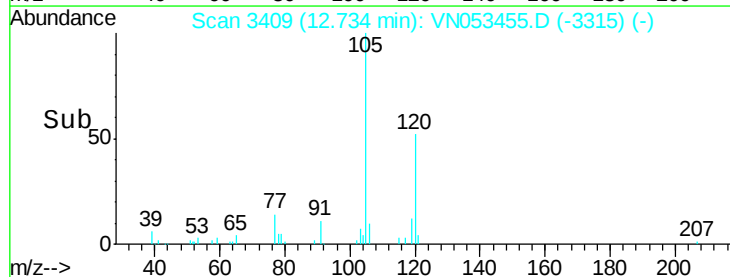
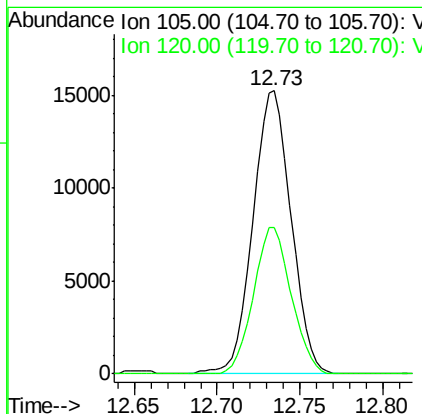
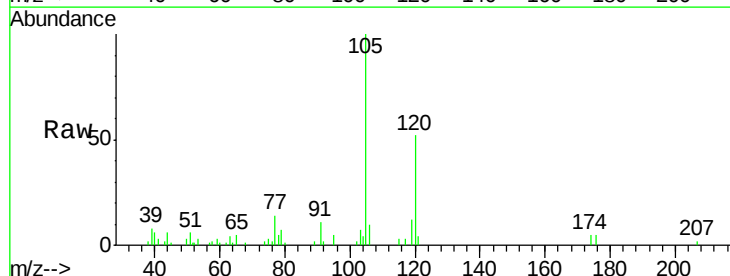
Tot Ion: 75 Resp: 290596
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#

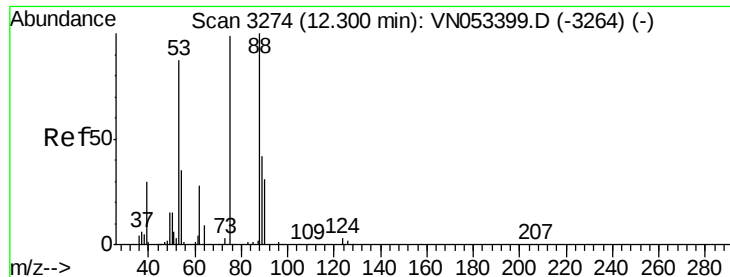


#80

1,3,5-Trimethylbenzene
Concen: 0.665 ug/l
RT: 12.73 min Scan# 3409
Delta R.T. 0.00 min
Lab File: VN053455.D
Acq: 18 Jan 2019 00:27

Tgt Ion: 105 Resp: 24315
Ion Ratio Lower Upper
105 100
120 51.2 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 88.855 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053455.D

Acq: 18 Jan 2019 00:27

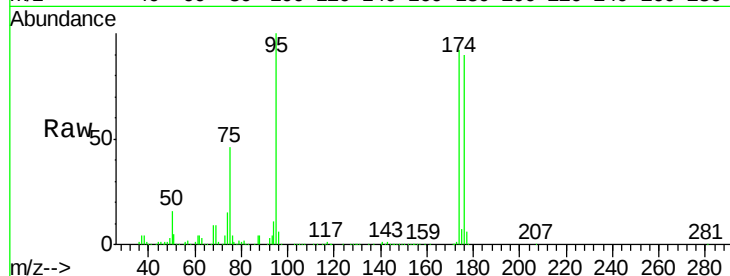
Tot Ion: 75 Resp: 290596

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

200000

150000

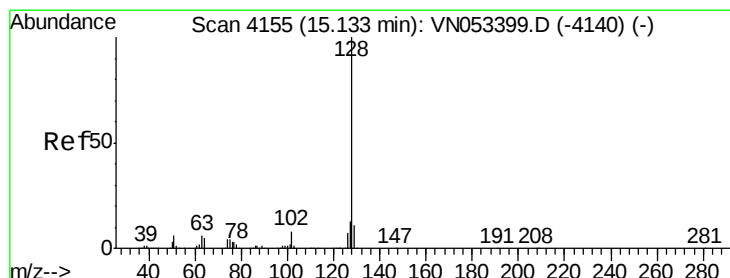
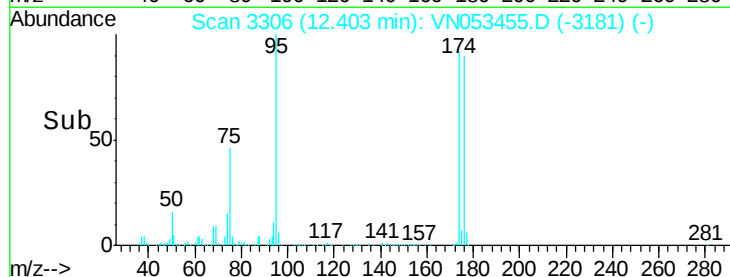
100000

50000

0

Time-->

12.35 12.40 12.45



#95

Naphthalene

Concen: 3.941 ug/l

RT: 15.14 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN053455.D

Acq: 18 Jan 2019 00:27

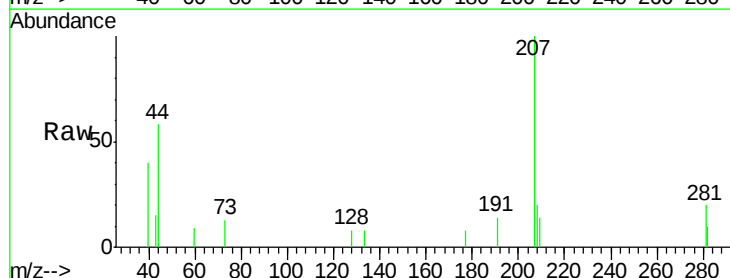
Tgt Ion: 128 Resp: 31

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): 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) (-)

15.14

200

150

100

50

0

Time-->

15.13 15.14 15.15

