

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052019\
 Data File : VN055675.D
 Acq On : 20 May 2019 15:40
 Operator : JC/SP
 Sample : K2922-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

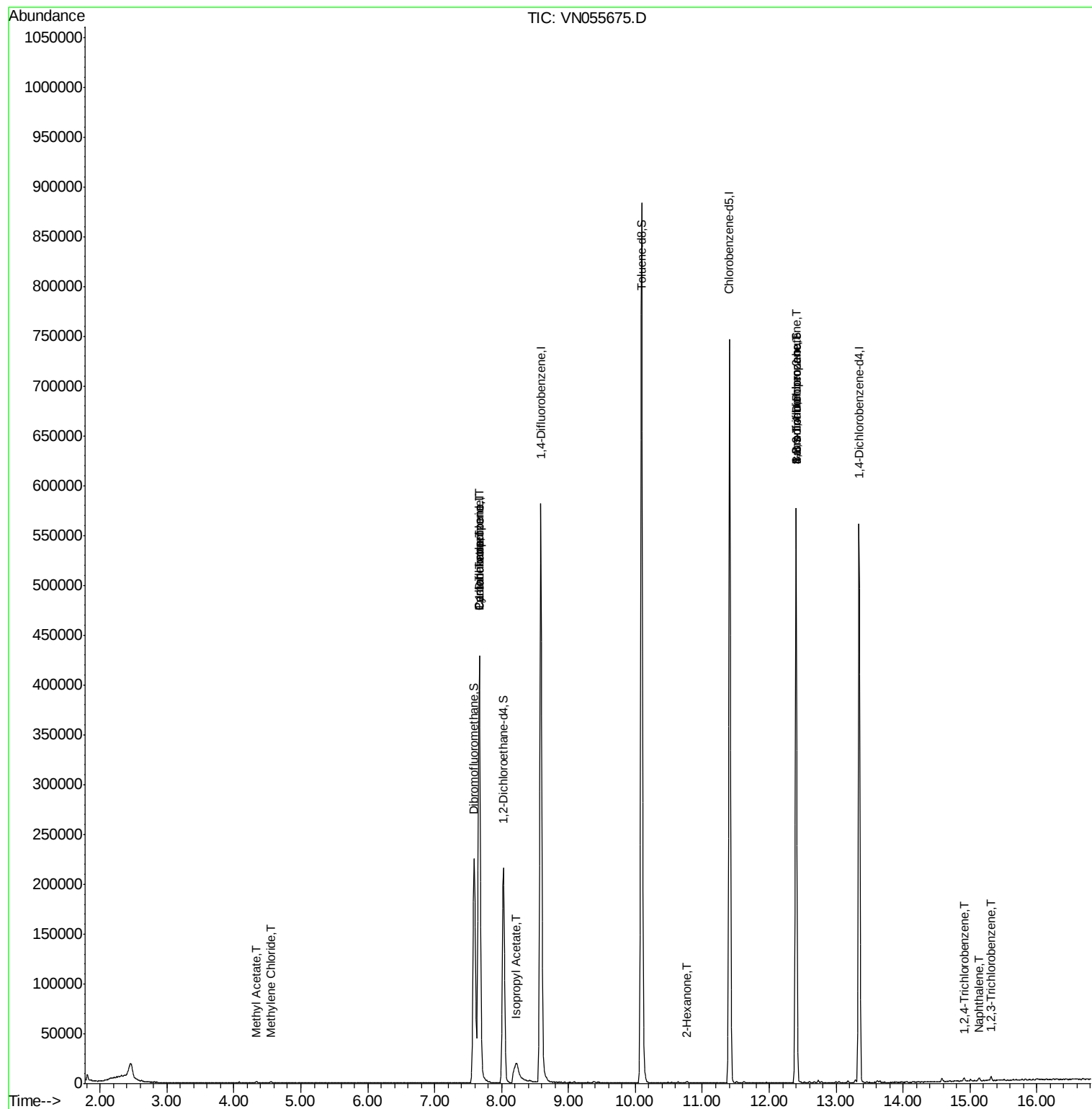
Quant Time: May 24 23:11:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 23:54:12 2019
 Response via : Initial Calibration

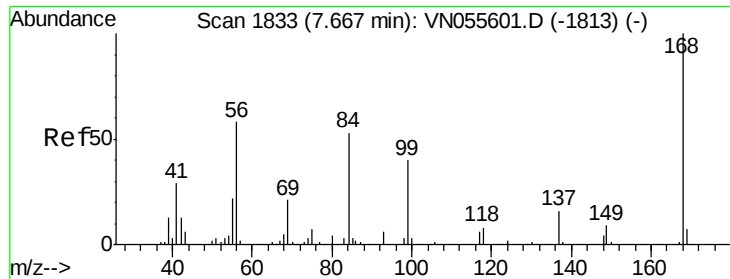
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	417347	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	582584	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	479113	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	163365	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	184627	40.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.72%	
35) Dibromofluoromethane	7.59	113	175685	47.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.94%	
50) Toluene-d8	10.09	98	668481	47.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.54%	
62) 4-Bromofluorobenzene	12.40	95	200352	41.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.92%	
Target Compounds						
					Qvalue	
18) Methyl Acetate	4.34	43	2781	0.695	ug/l #	76
20) Methylene Chloride	4.56	84	971	0.228	ug/l #	75
31) Cyclohexane	7.67	56	5676	0.837	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	23836	4.589	ug/l #	48
38) Carbon Tetrachloride	7.67	117	33740	6.079	ug/l #	15
43) Isopropyl Acetate	8.22	43	40354	4.950	ug/l #	53
59) 2-Hexanone	10.76	43	746	0.222	ug/l	87
71) Bromoform	12.40	173	1367	0.414	ug/l #	1
73) Isopropylbenzene	12.25	105	699	Below Cal	#	64
76) 1,2,3-Trichloropropane	12.40	75	91260	27.377	ug/l #	100
79) 2-Chlorotoluene	12.68	91	806	Below Cal	#	52
80) 1,3,5-Trimethylbenzene	12.73	105	942	Below Cal		100
81) trans-1,4-Dichloro-2-buten	12.40	75	91260	70.374	ug/l #	17
83) tert-Butylbenzene	12.99	119	606	Below Cal	#	81
84) 1,2,4-Trimethylbenzene	13.04	105	1084	Below Cal		91
85) sec-Butylbenzene	13.17	105	1306	Below Cal		84
86) p-Isopropyltoluene	13.29	119	1364	Below Cal	#	81
93) 1,2,4-Trichlorobenzene	14.91	180	1394	0.495	ug/l	91
94) Hexachlorobutadiene	15.01	225	600	Below Cal		79
95) Naphthalene	15.14	128	3874	2.204	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.32	180	1745	0.593	ug/l	89

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

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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: VN055675.D

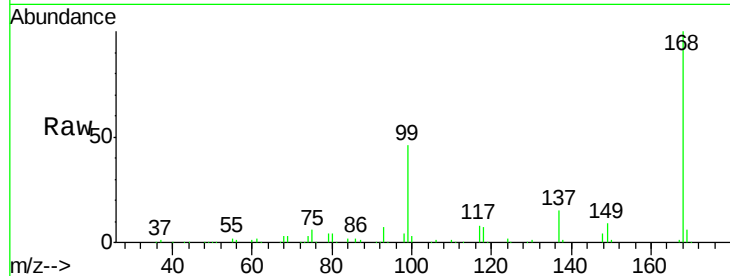
Acq: 20 May 2019 15:40

Tot Ion:168 Resp: 417347

Ion Ratio Lower Upper

168 100

99 46.2 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNC

7.67

150000

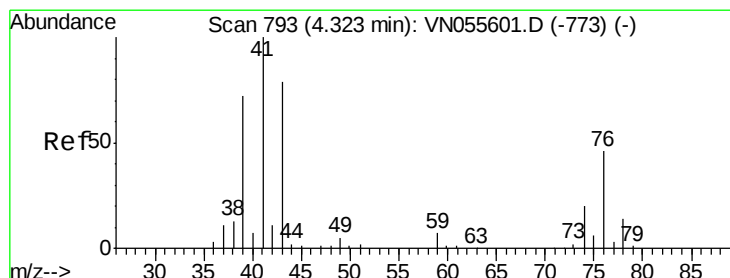
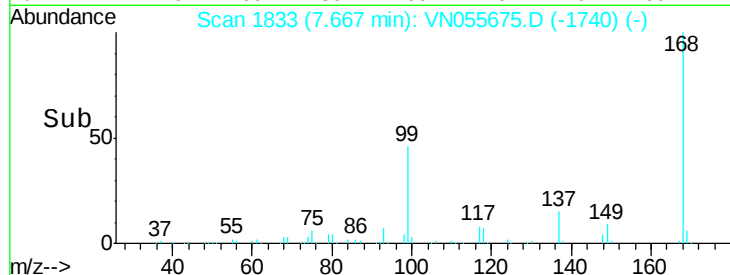
100000

50000

0

Time-->

7.60 7.70 7.80



#18

Methyl Acetate

Concen: 0.695 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN055675.D

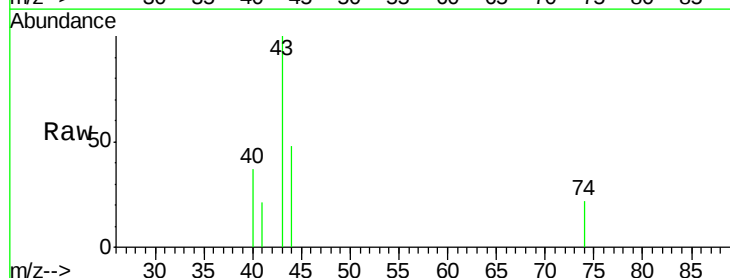
Acq: 20 May 2019 15:40

Tgt Ion: 43 Resp: 2781

Ion Ratio Lower Upper

43 100

74 13.0 19.9 29.9#



Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 74.00 (73.70 to 74.70): VNC

4.34

1000

800

600

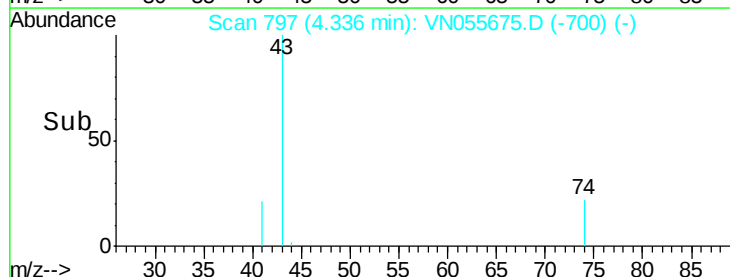
400

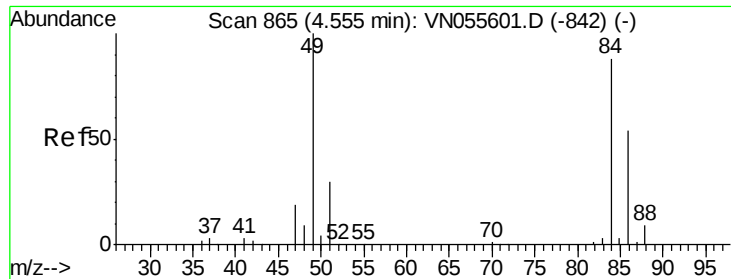
200

0

Time-->

4.25 4.30 4.35 4.40





#20

Methylene Chloride

Concen: 0.228 ug/l

RT: 4.56 min Scan# 866

Delta R.T. 0.00 min

Lab File: VN055675.D

Acq: 20 May 2019 15:40

Tot Ion: 84 Resp: 971

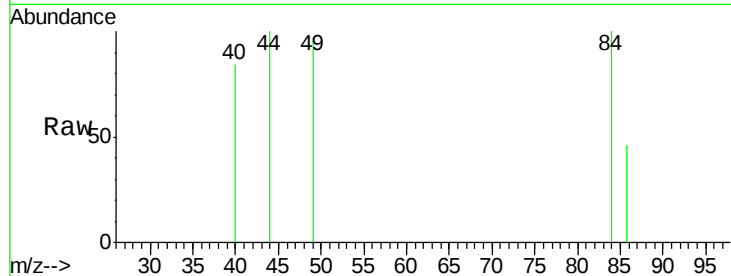
Ion Ratio Lower Upper

84 100

49 95.8 91.0 136.4

51 0.0 27.5 41.3#

86 45.9 49.4 74.0#

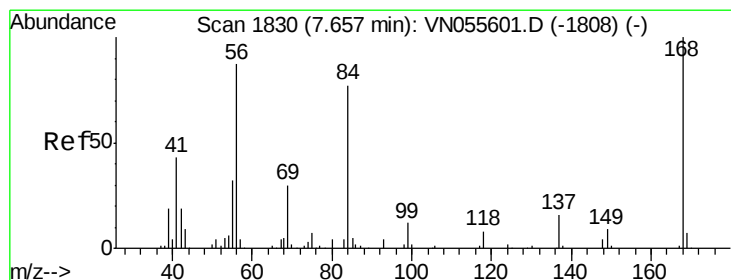
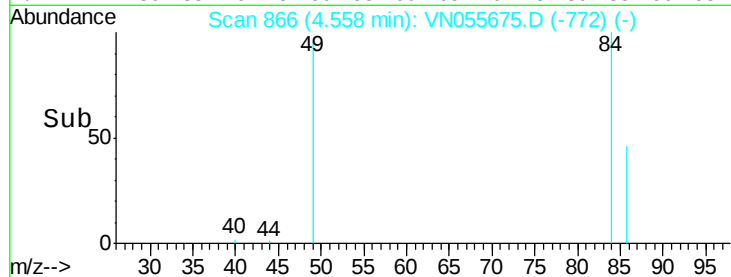
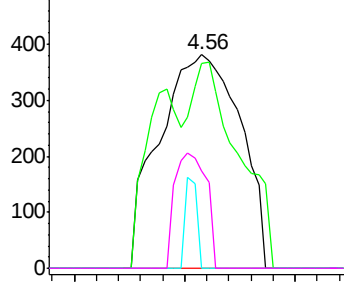


Abundance Ion 83.90 (83.60 to 84.60): VN0

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



#31

Cyclohexane

Concen: 0.837 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN055675.D

Acq: 20 May 2019 15:40

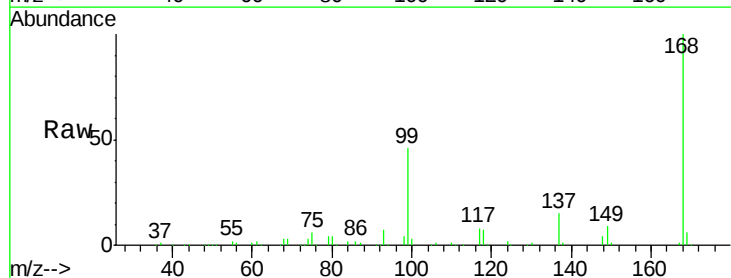
Tgt Ion: 56 Resp: 5676

Ion Ratio Lower Upper

56 100

69 183.9 27.2 40.8#

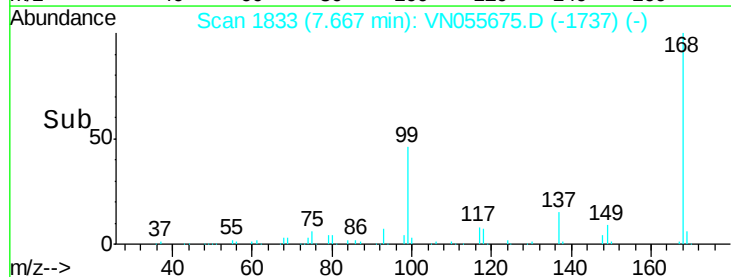
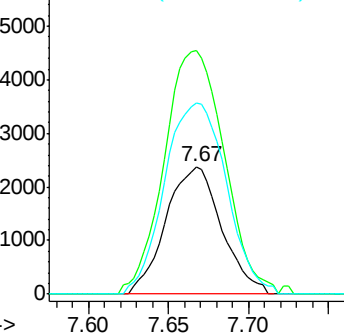
84 149.9 71.3 106.9#

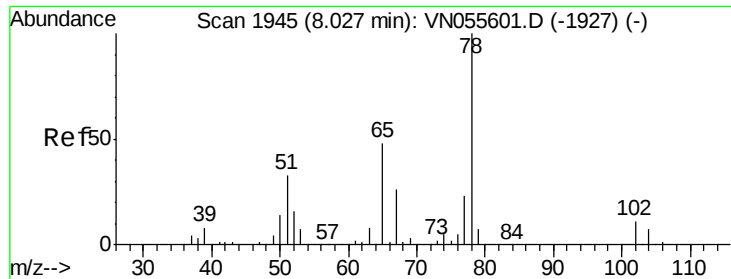


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 40.356 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN055675.D

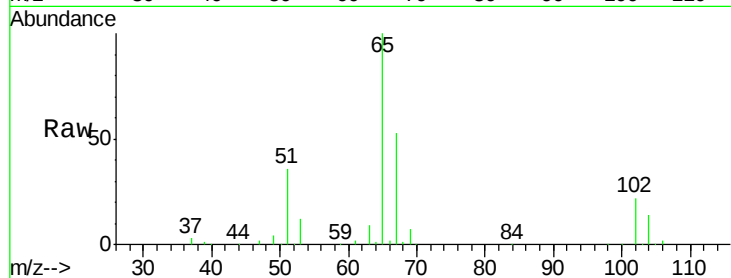
Acq: 20 May 2019 15:40

Tot Ion: 65 Resp: 184627

Ion Ratio Lower Upper

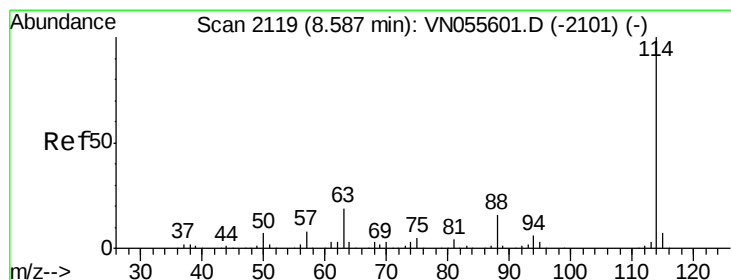
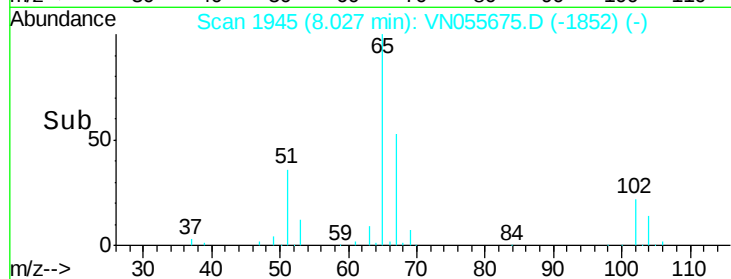
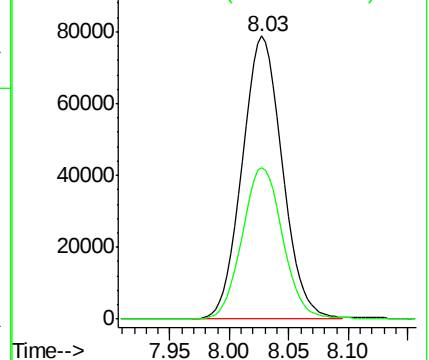
65 100

67 54.3 0.0 108.6



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: VN055675.D

Acq: 20 May 2019 15:40

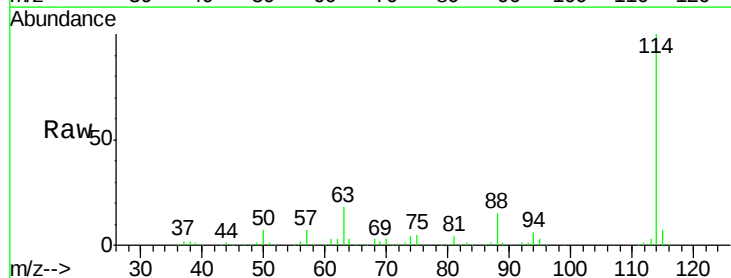
Tgt Ion: 114 Resp: 582584

Ion Ratio Lower Upper

114 100

63 18.2 0.0 38.2

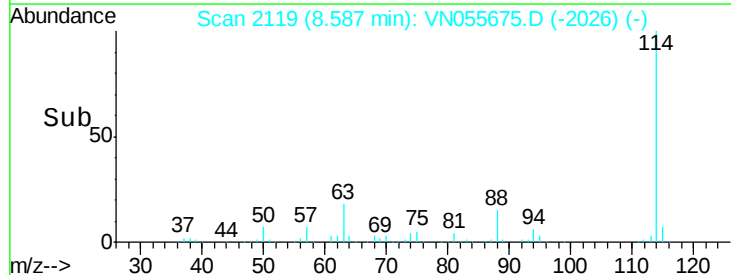
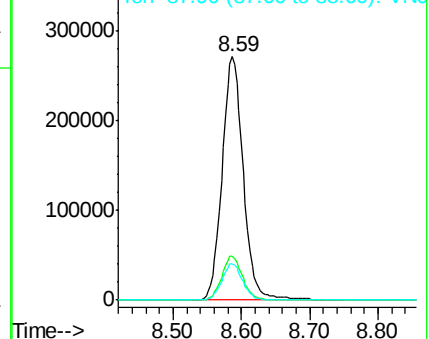
88 15.1 0.0 31.0

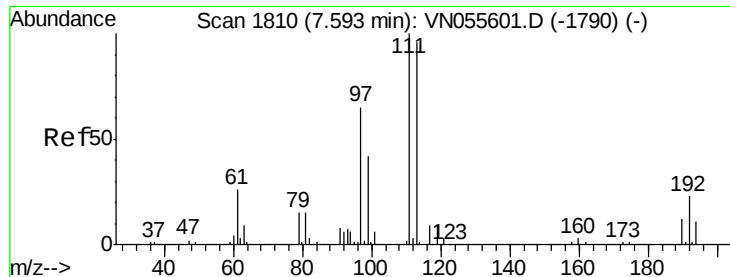


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

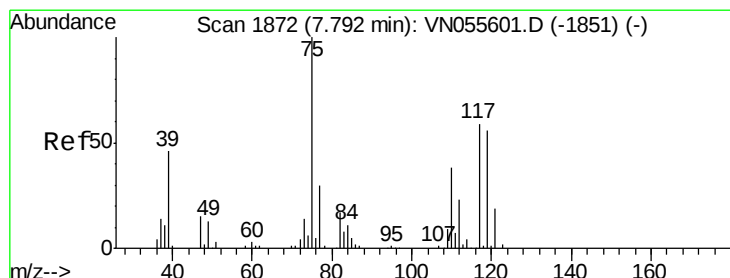
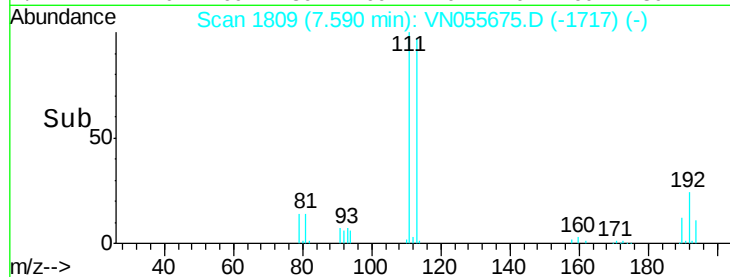
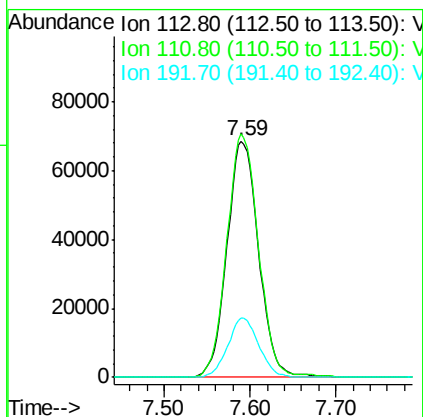
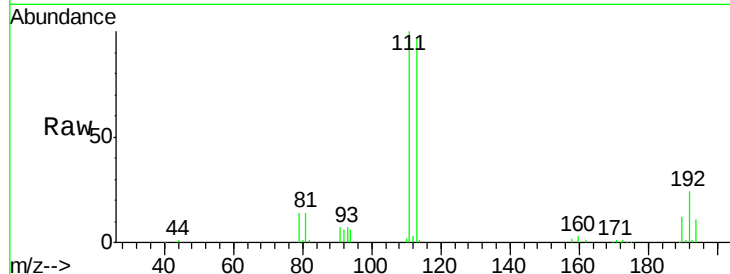
Ion 87.90 (87.60 to 88.60): VN0





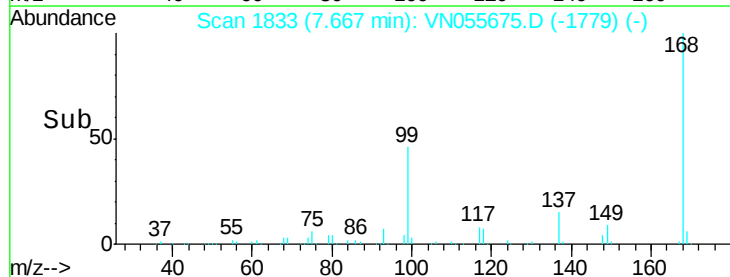
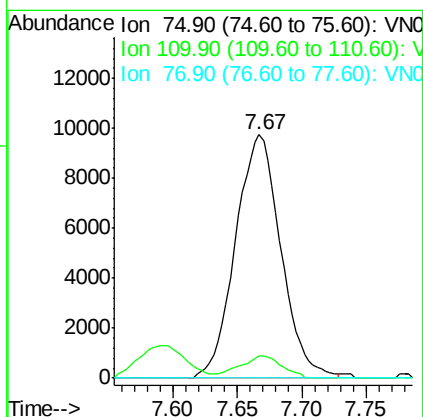
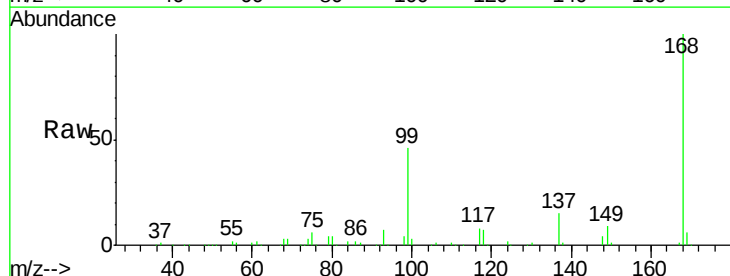
#35
 Dibromofluoromethane
 Concen: 47.472 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN055675.D
 Acq: 20 May 2019 15:40

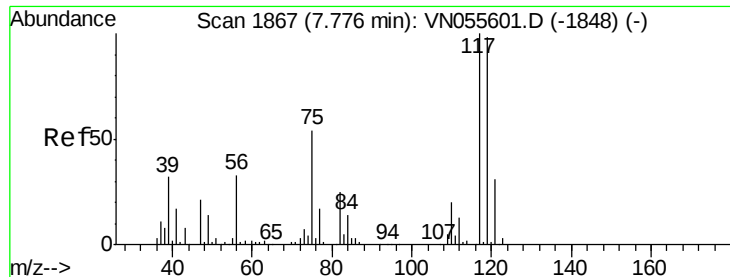
Tot Ion:113 Resp: 175685
 Ion Ratio Lower Upper
 113 100
 111 102.9 82.5 123.7
 192 24.4 18.7 28.1



#36
 1,1-Dichloropropene
 Concen: 4.589 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN055675.D
 Acq: 20 May 2019 15:40

Tgt Ion: 75 Resp: 23836
 Ion Ratio Lower Upper
 75 100
 110 8.5 18.6 55.6#
 77 0.0 24.9 37.3#





#38

Carbon Tetrachloride

Concen: 6.079 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN055675.D

Acq: 20 May 2019 15:40

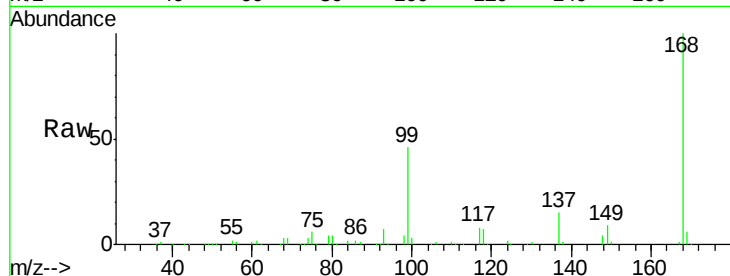
Tot Ion: 117 Resp: 33740

Ion Ratio Lower Upper

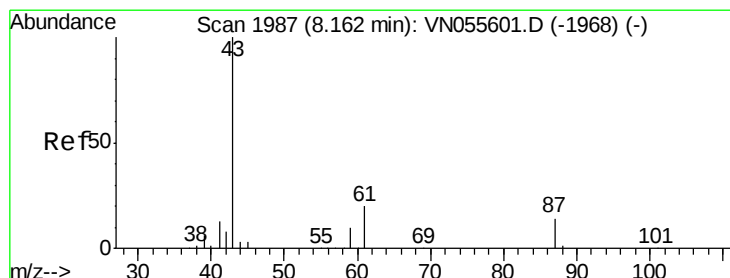
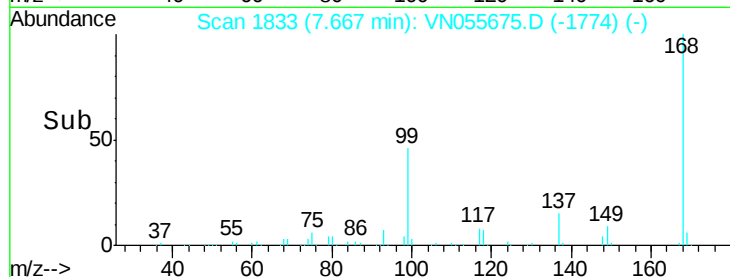
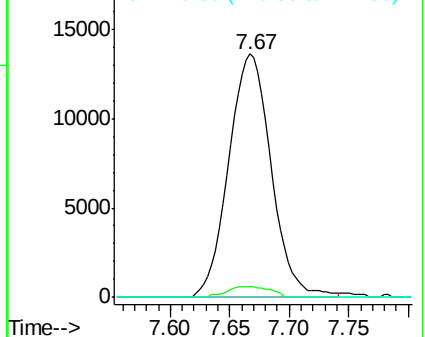
117 100

119 4.4 77.8 116.8#

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



#43

Isopropyl Acetate

Concen: 4.950 ug/l

RT: 8.22 min Scan# 2006

Delta R.T. 0.06 min

Lab File: VN055675.D

Acq: 20 May 2019 15:40

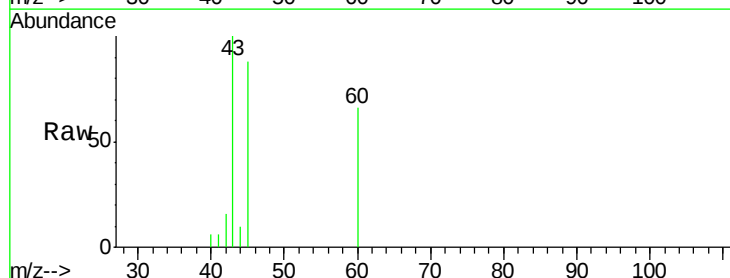
Tgt Ion: 43 Resp: 40354

Ion Ratio Lower Upper

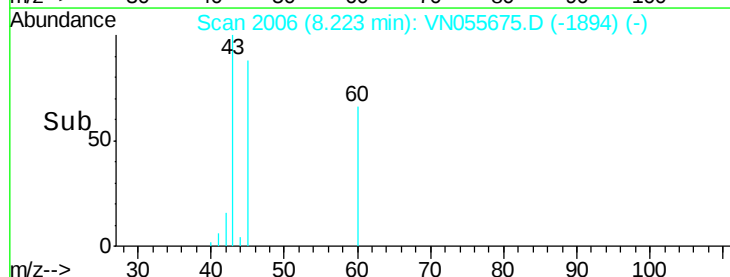
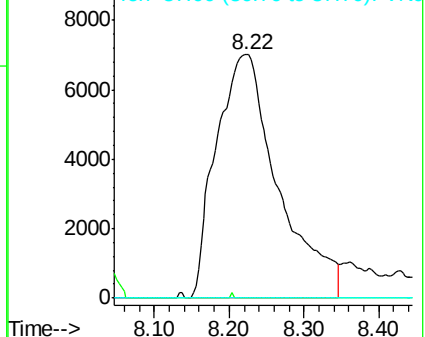
43 100

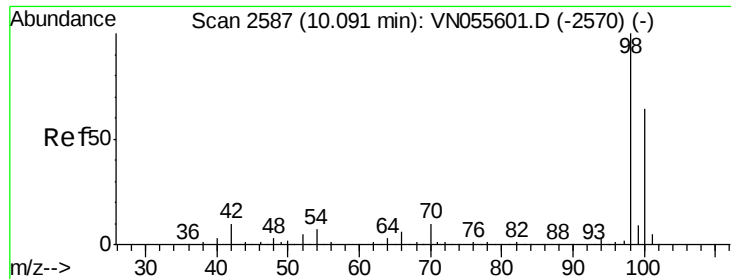
61 0.0 22.1 33.1#

87 0.0 11.8 17.6#



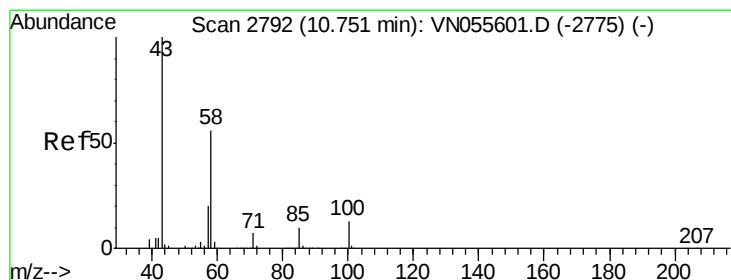
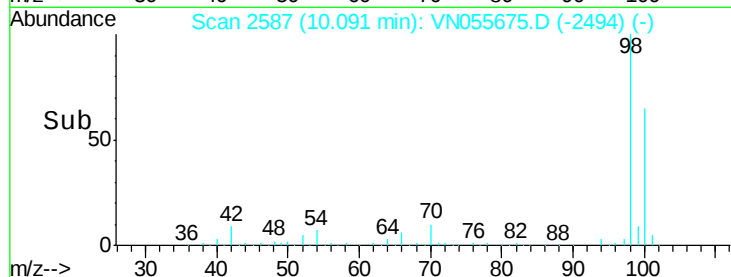
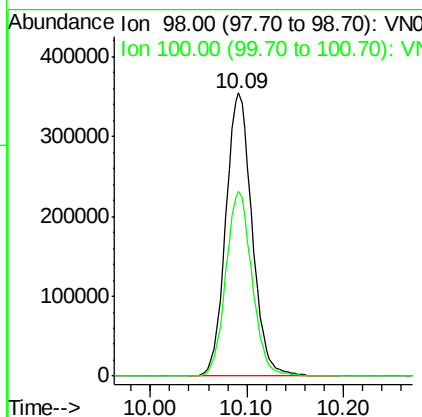
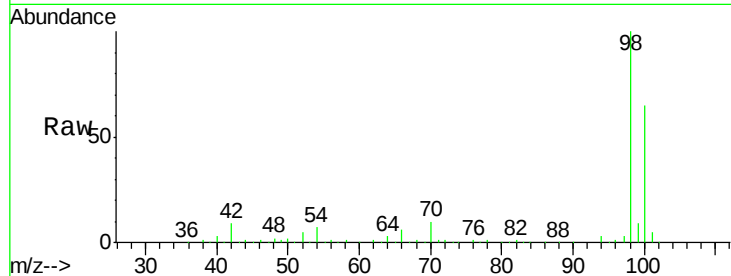
Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V





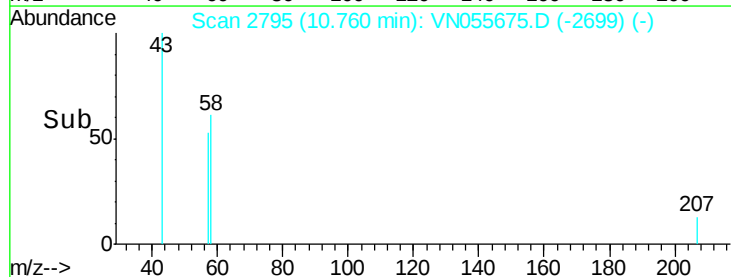
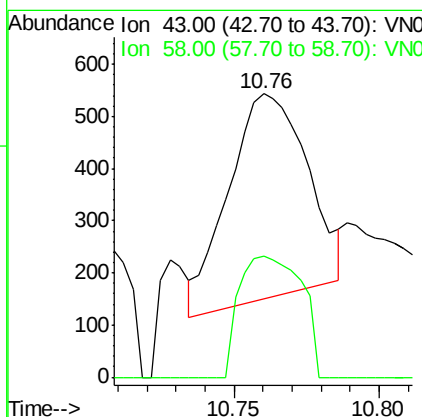
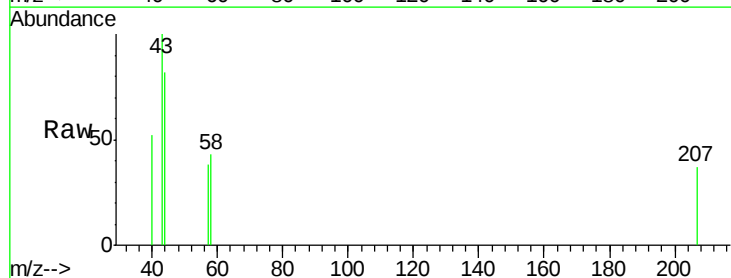
#50
Toluene-d8
Concen: 47.771 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN055675.D
Acq: 20 May 2019 15:40

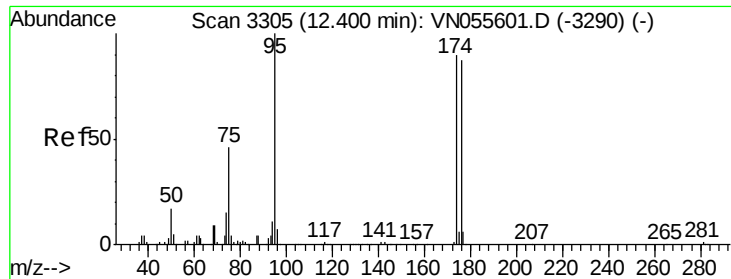
Tot Ion: 98 Resp: 668481
Ion Ratio Lower Upper
98 100
100 65.1 51.9 77.9



#59
2-Hexanone
Concen: 0.222 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN055675.D
Acq: 20 May 2019 15:40

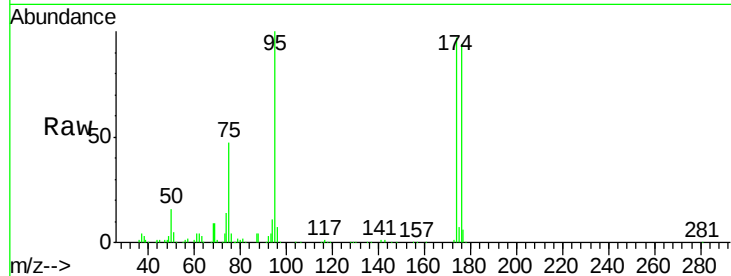
Tgt Ion: 43 Resp: 746
Ion Ratio Lower Upper
43 100
58 46.5 28.1 84.4





#62
4-Bromofluorobenzene
Concen: 41.463 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN055675.D
Acq: 20 May 2019 15:40

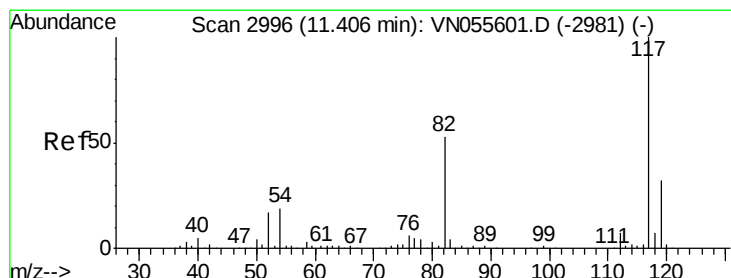
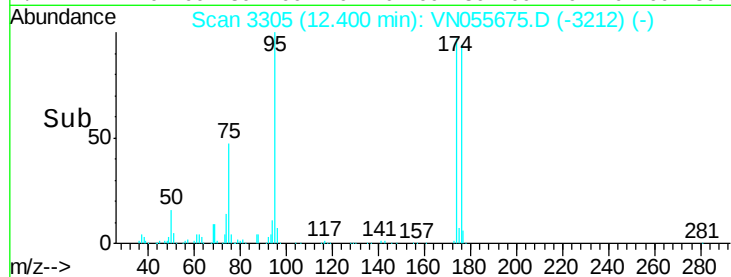
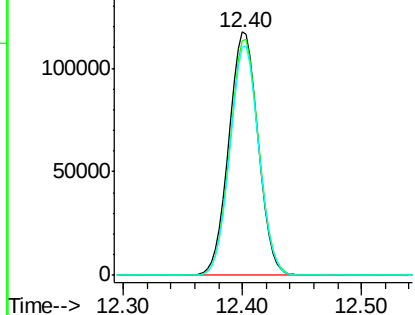
Tot Ion	Ratio	Lower	Upper
95	100		
174	95.8	0.0	180.6
176	93.1	0.0	177.4



Abundance Ion 94.90 (94.60 to 95.60): VN055675.D (-3212) (-)

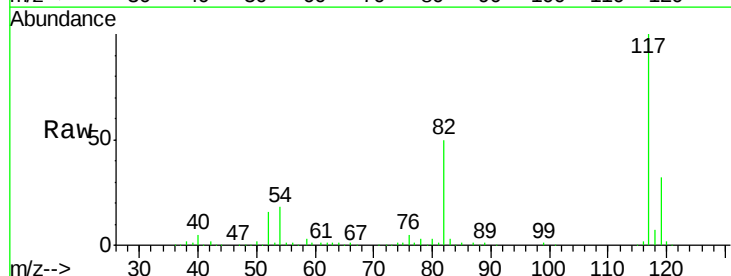
Ion 173.80 (173.50 to 174.50): VN055675.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN055675.D (-3212) (-)



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055675.D
Acq: 20 May 2019 15:40

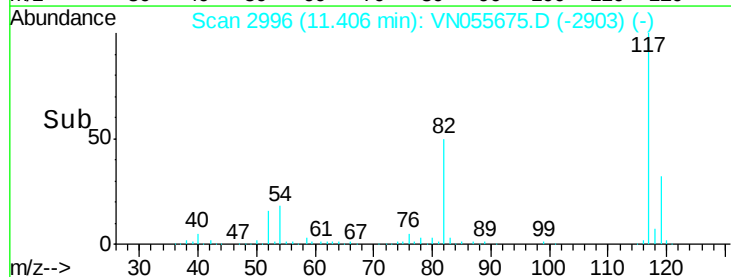
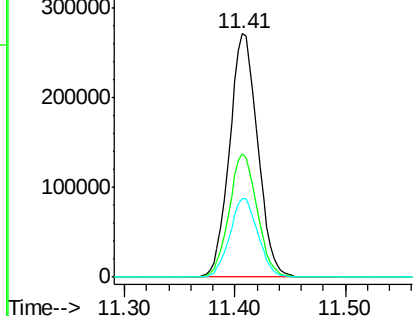
Tgt Ion	Ratio	Lower	Upper
117	100		
82	50.5	42.3	63.5
119	32.4	25.4	38.2

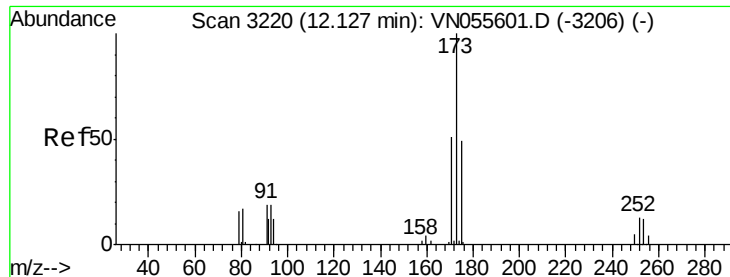


Abundance Ion 116.90 (116.60 to 117.60): VN055675.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN055675.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN055675.D (-2903) (-)





#71

Bromoform

Concen: 0.414 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055675.D

Acq: 20 May 2019 15:40

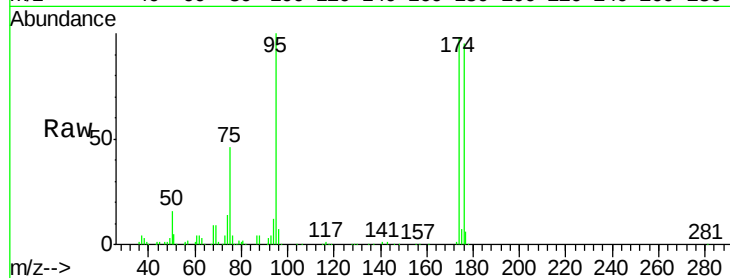
Tot Ion:173 Resp: 1367

Ion Ratio Lower Upper

173 100

175 904.5 24.3 72.9#

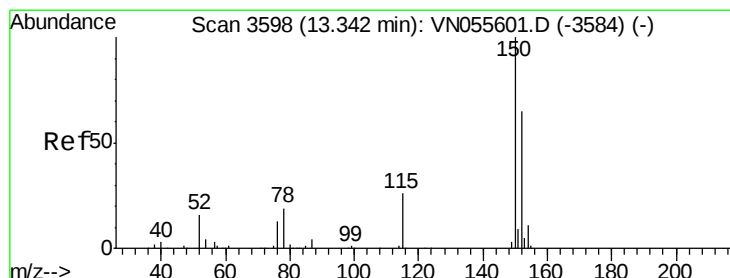
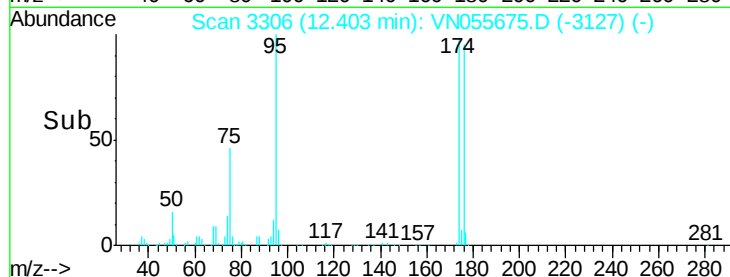
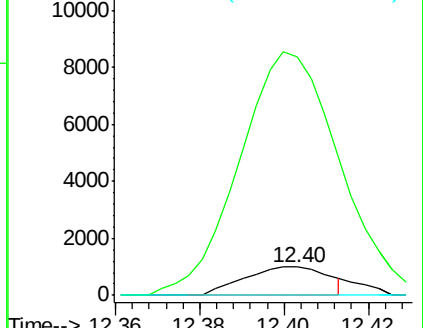
254 0.0 0.1 0.1#



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: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN055675.D

Acq: 20 May 2019 15:40

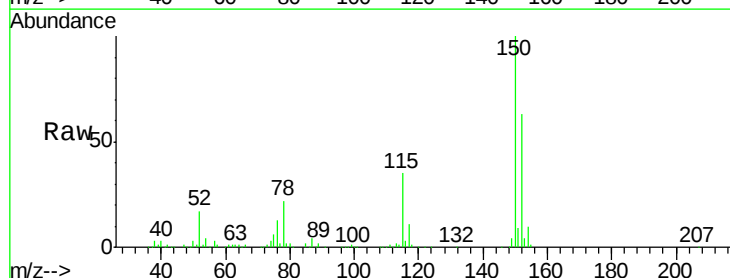
Tgt Ion:152 Resp: 163365

Ion Ratio Lower Upper

152 100

115 54.9 28.1 84.2

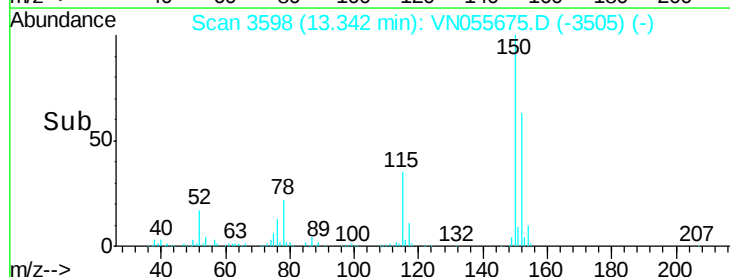
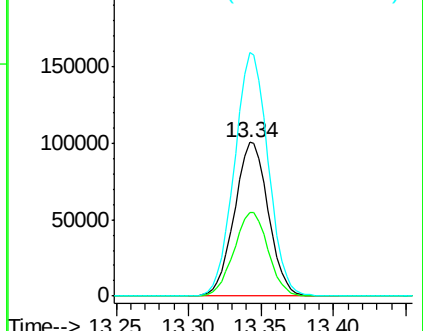
150 158.0 0.0 348.0

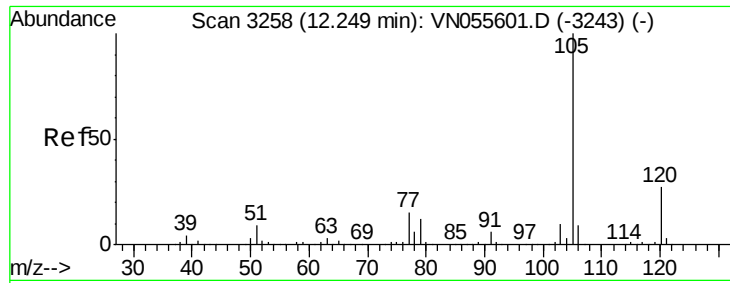


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055675.D

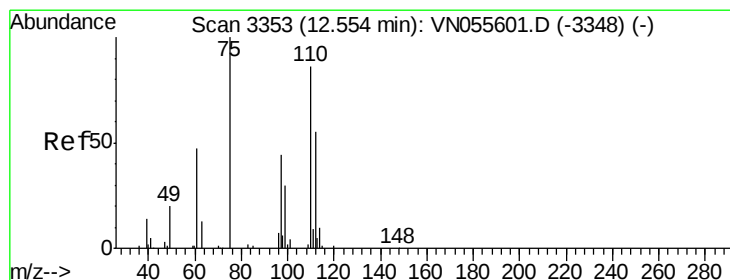
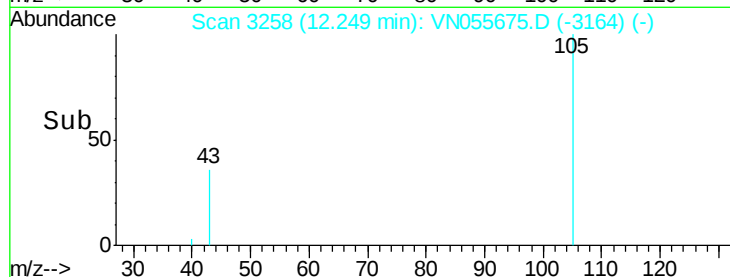
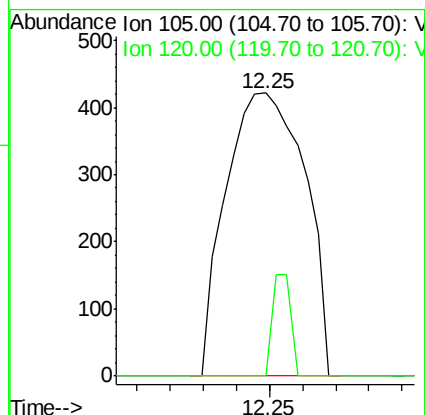
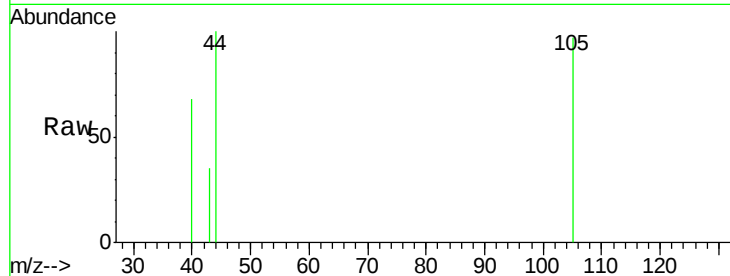
Acq: 20 May 2019 15:40

Tot Ion: 105 Resp: 699

Ion Ratio Lower Upper

105 100

120 8.3 13.4 40.2#



#76

1,2,3-Trichloropropane

Concen: 27.377 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055675.D

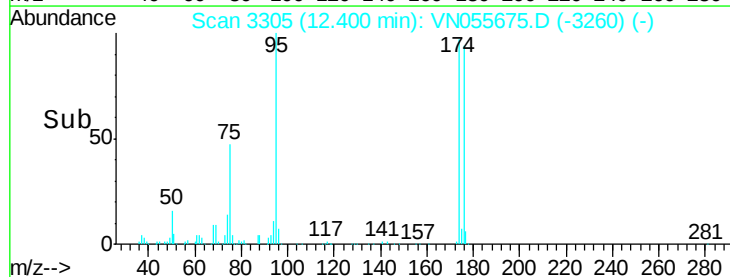
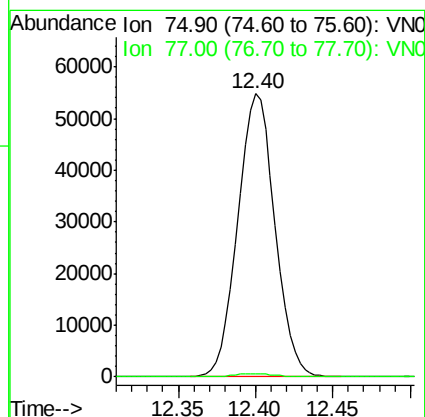
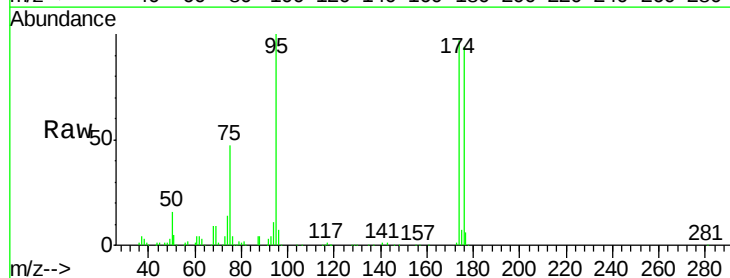
Acq: 20 May 2019 15:40

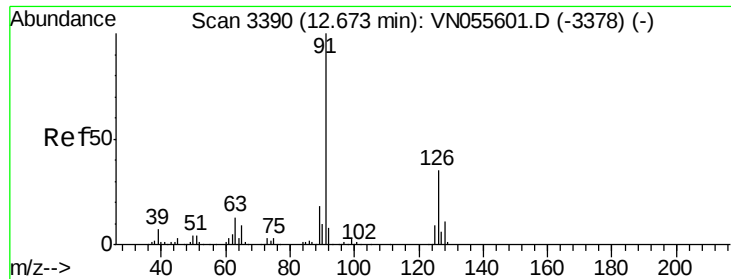
Tgt Ion: 75 Resp: 91260

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN055675.D

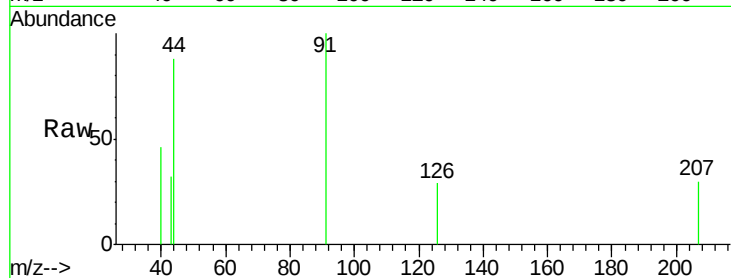
Acq: 20 May 2019 15:40

Tot Ion: 91 Resp: 806

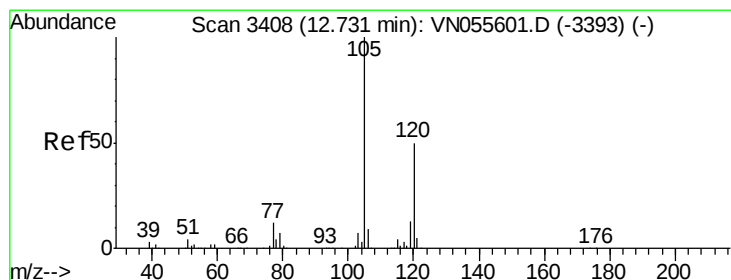
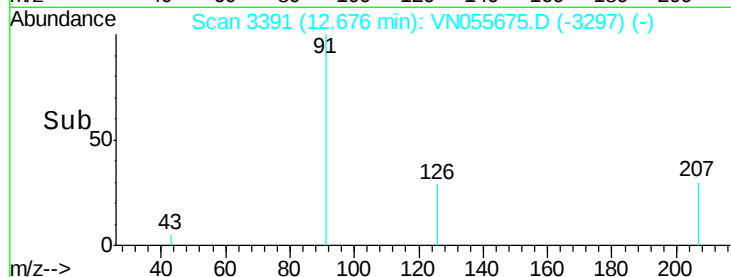
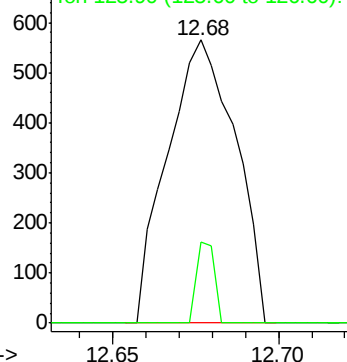
Ion Ratio Lower Upper

91 100

126 7.6 17.8 53.4#



Abundance Ion 91.00 (90.70 to 91.70): VN055601.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN055675.D

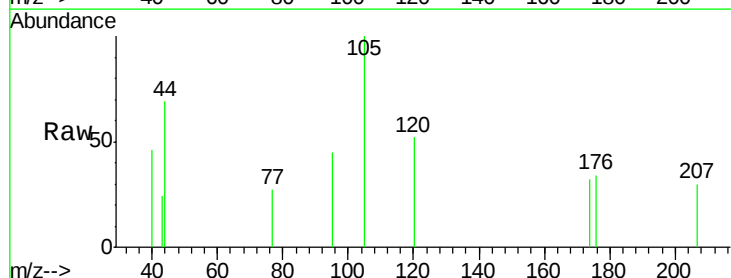
Acq: 20 May 2019 15:40

Tgt Ion: 105 Resp: 942

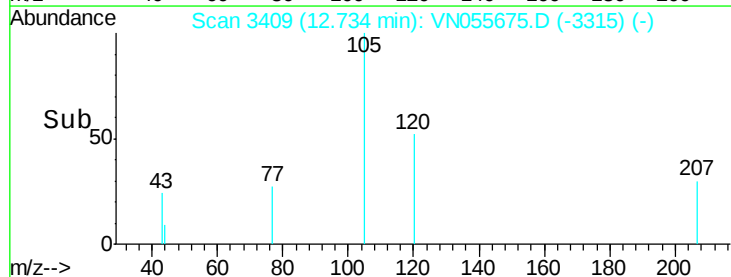
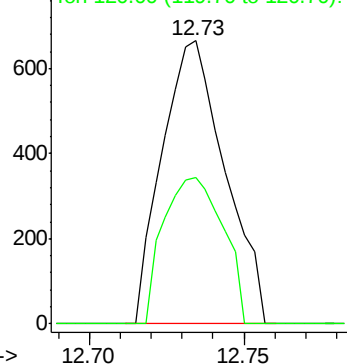
Ion Ratio Lower Upper

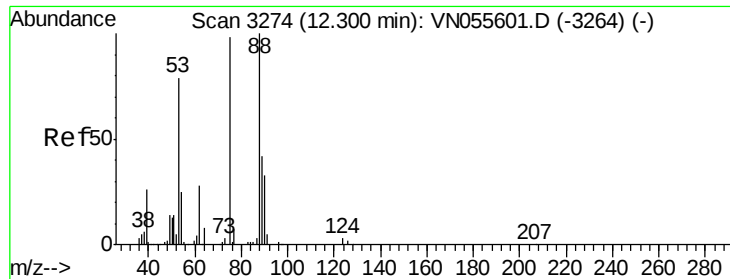
105 100

120 49.2 24.6 74.0



Abundance Ion 105.00 (104.70 to 105.70): VN055601.D (-3393) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 70.374 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055675.D

Acq: 20 May 2019 15:40

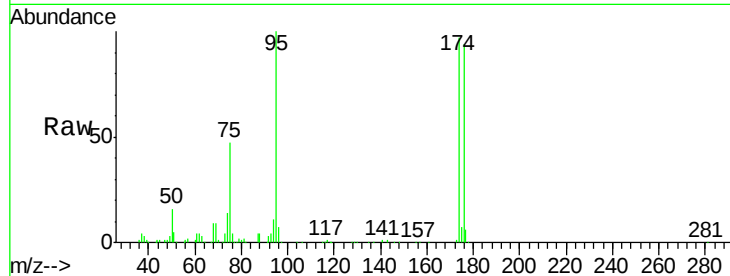
Tot Ion: 75 Resp: 91260

Ion Ratio Lower Upper

75 100

53 0.0 65.1 97.7#

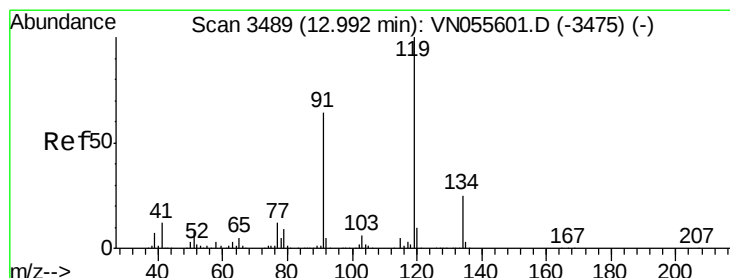
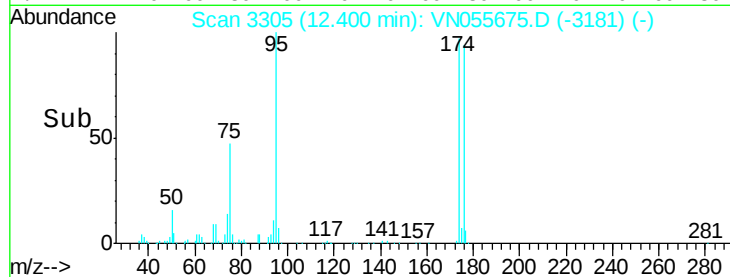
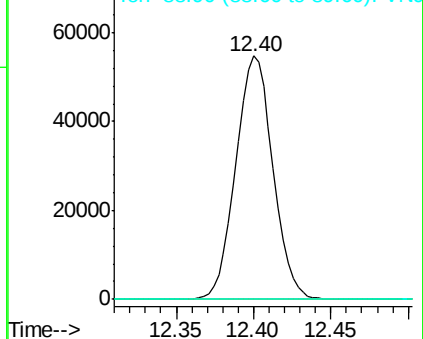
89 0.0 36.4 54.6#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN055675.D

Acq: 20 May 2019 15:40

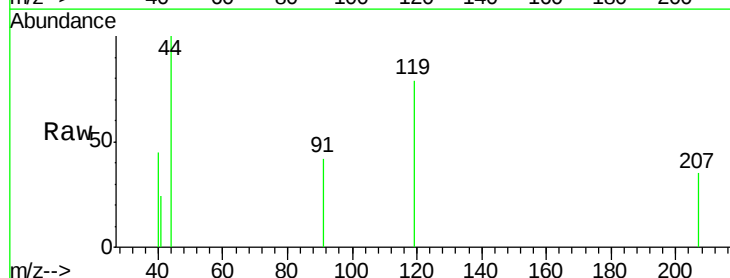
Tgt Ion: 119 Resp: 606

Ion Ratio Lower Upper

119 100

91 58.1 31.3 93.8

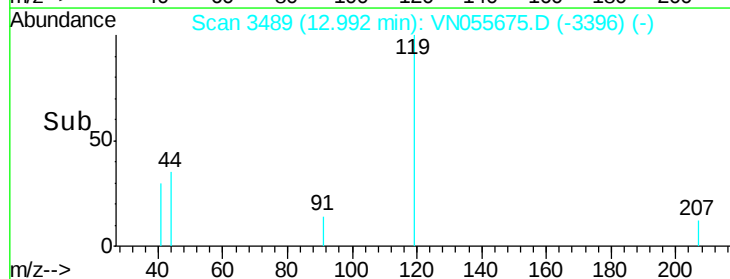
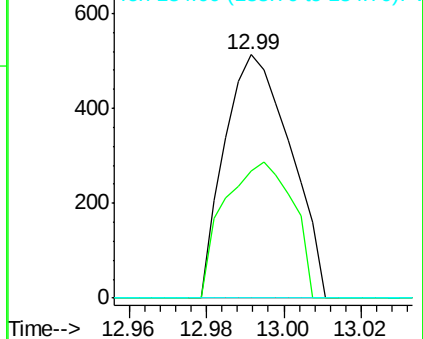
134 0.0 13.2 39.6#

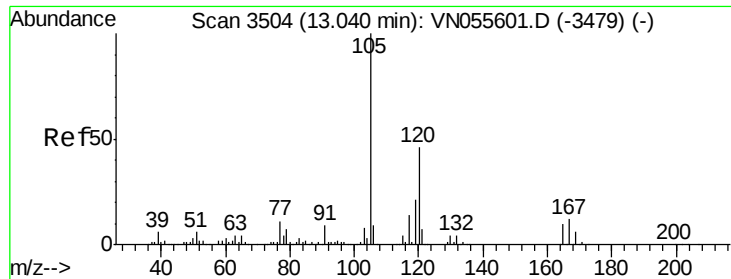


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN0

Ion 134.00 (133.70 to 134.70): V





#84

1,2,4-Trimethylbenzene

Concen: Below Cal

RT: 13.04 min Scan# 3505

Delta R.T. 0.00 min

Lab File: VN055675.D

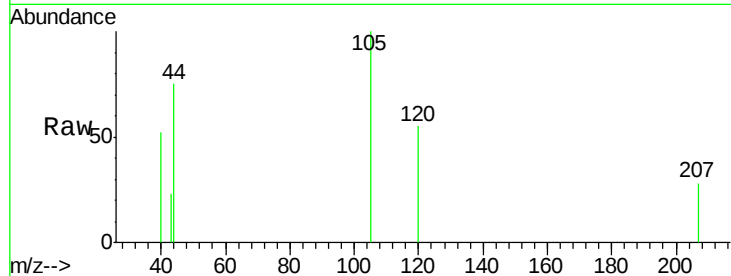
Acq: 20 May 2019 15:40

Tot Ion:105 Resp: 1084

Ion Ratio Lower Upper

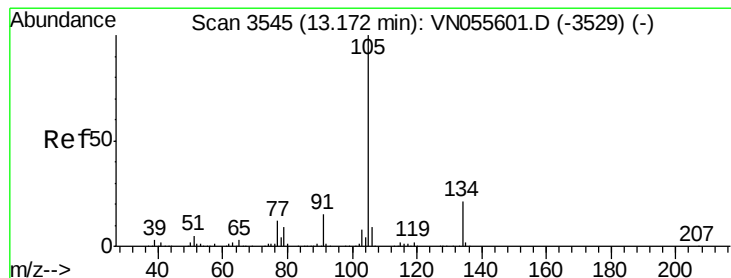
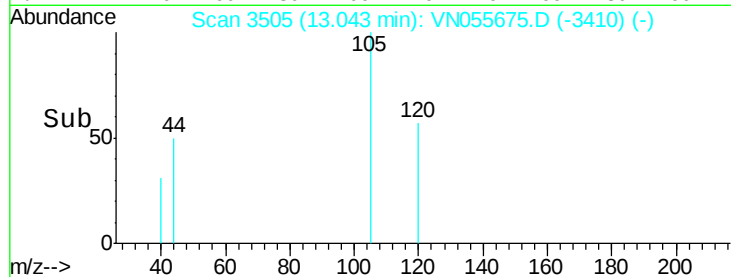
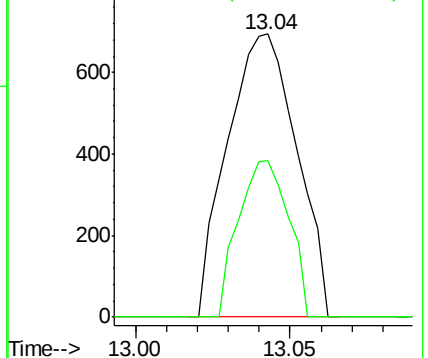
105 100

120 39.9 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: Below Cal

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN055675.D

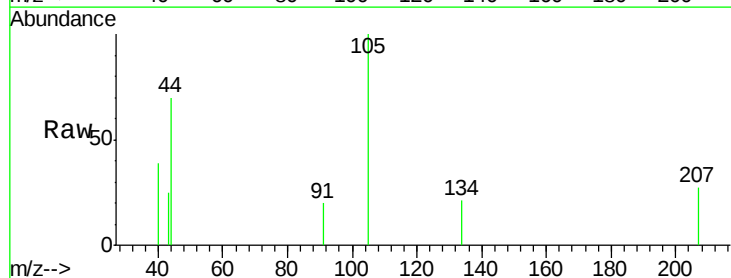
Acq: 20 May 2019 15:40

Tgt Ion:105 Resp: 1306

Ion Ratio Lower Upper

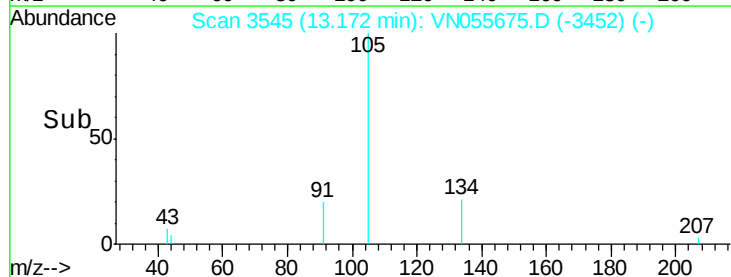
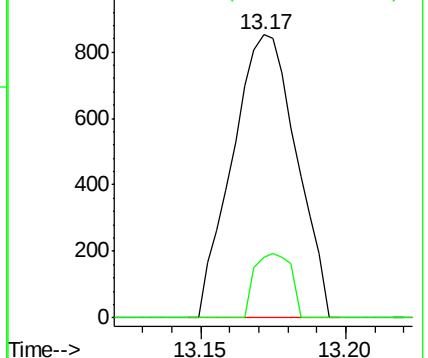
105 100

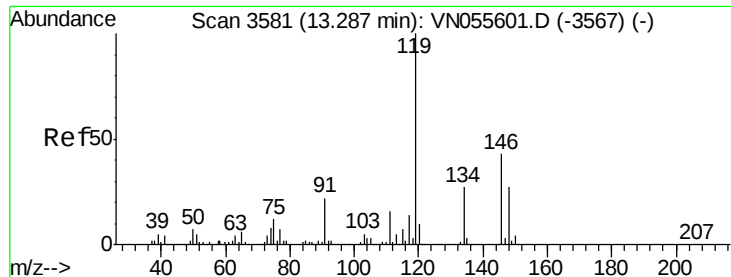
134 12.9 10.3 30.9



Abundance Ion 105.00 (104.70 to 105.70): V

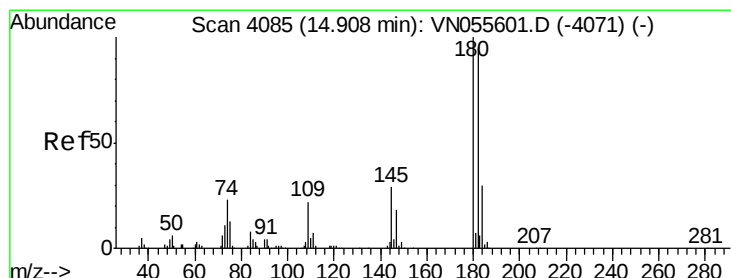
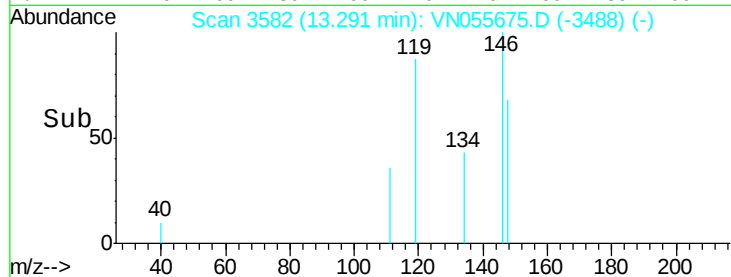
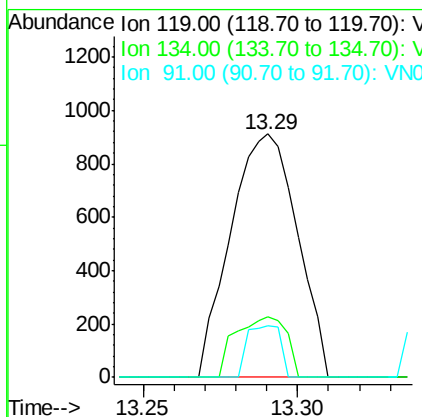
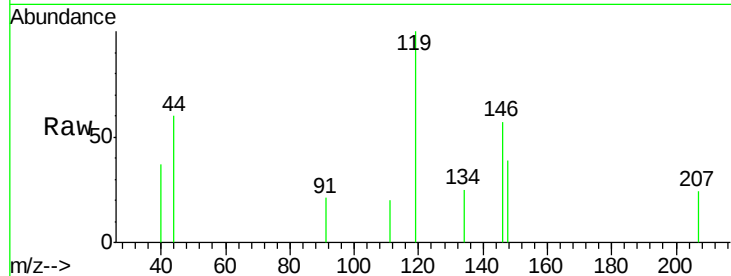
Ion 134.00 (133.70 to 134.70): V





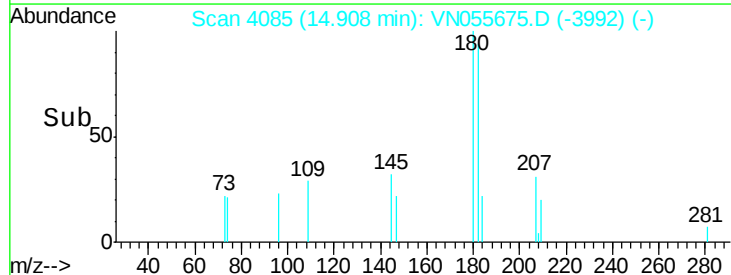
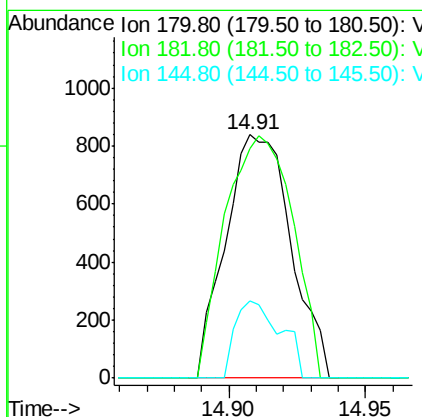
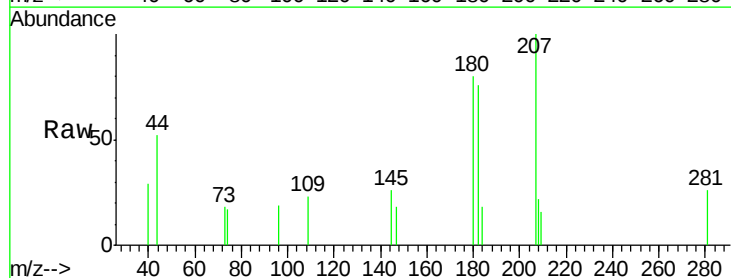
#86
 p-Isopropyltoluene
 Concen: Below Cal
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN055675.D
 Acq: 20 May 2019 15:40

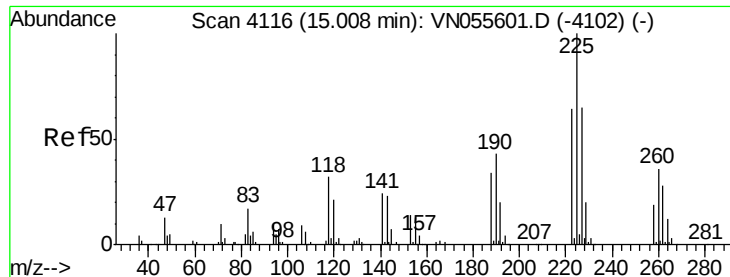
Tot Ion:119 Resp: 1364
 Ion Ratio Lower Upper
 119 100
 134 18.8 13.4 40.2
 91 10.6 11.0 33.0#



#93
 1,2,4-Trichlorobenzene
 Concen: 0.495 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN055675.D
 Acq: 20 May 2019 15:40

Tgt Ion:180 Resp: 1394
 Ion Ratio Lower Upper
 180 100
 182 103.8 47.9 143.6
 145 22.2 14.3 42.9





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN055675.D

Acq: 20 May 2019 15:40

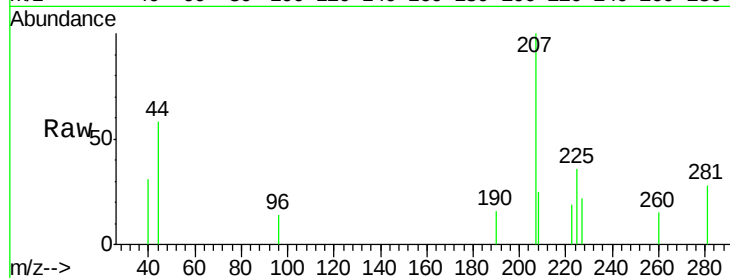
Tot Ion: 225 Resp: 600

Ion Ratio Lower Upper

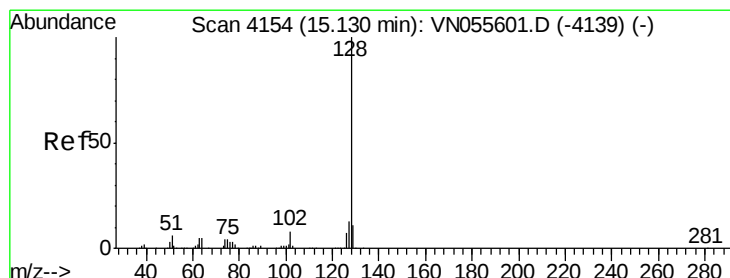
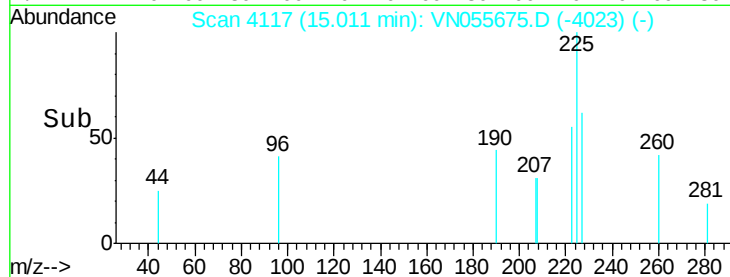
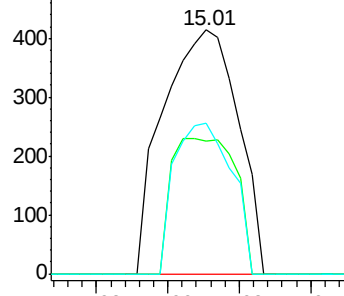
225 100

223 47.3 31.6 94.7

227 47.3 32.4 97.0



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 2.204 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN055675.D

Acq: 20 May 2019 15:40

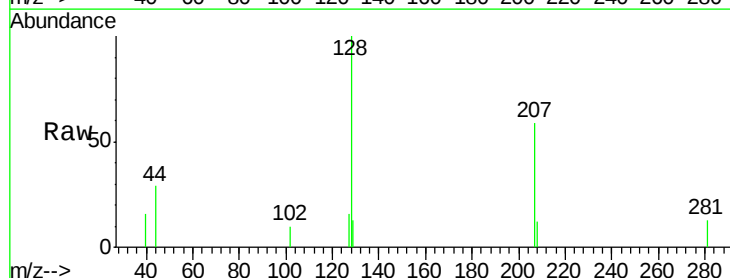
Tgt Ion: 128 Resp: 3874

Ion Ratio Lower Upper

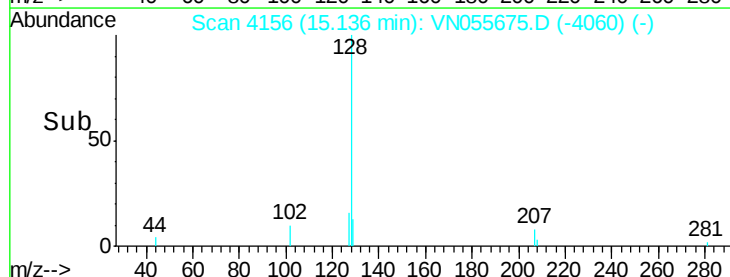
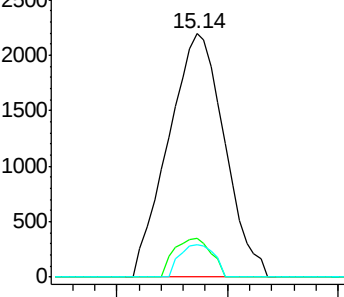
128 100

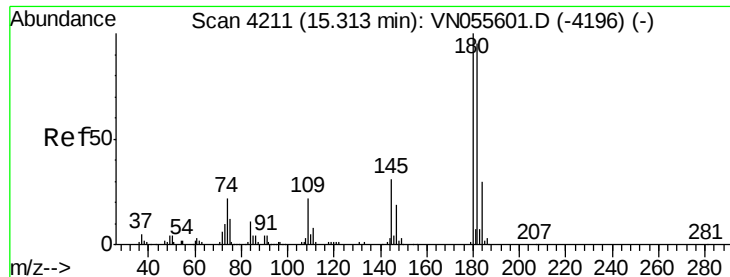
127 10.5 10.2 15.4

129 8.2 8.6 12.8#



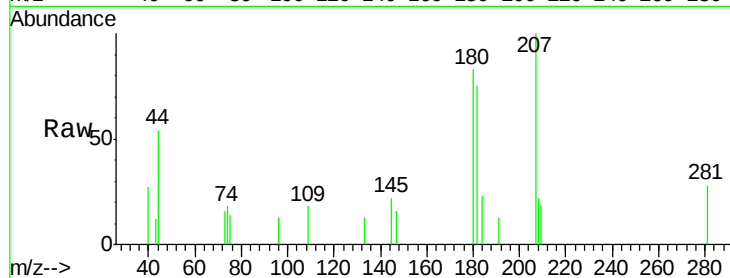
Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.593 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN055675.D
 Acq: 20 May 2019 15:40

Tot Ion	Ratio	Lower	Upper
180	100		
182	104.2	47.9	143.6
145	21.5	15.4	46.1



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

