

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052019\
 Data File : VN055689.D
 Acq On : 20 May 2019 23:32
 Operator : JC/SP
 Sample : VN0520WBL02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 35 Sample Multiplier: 1

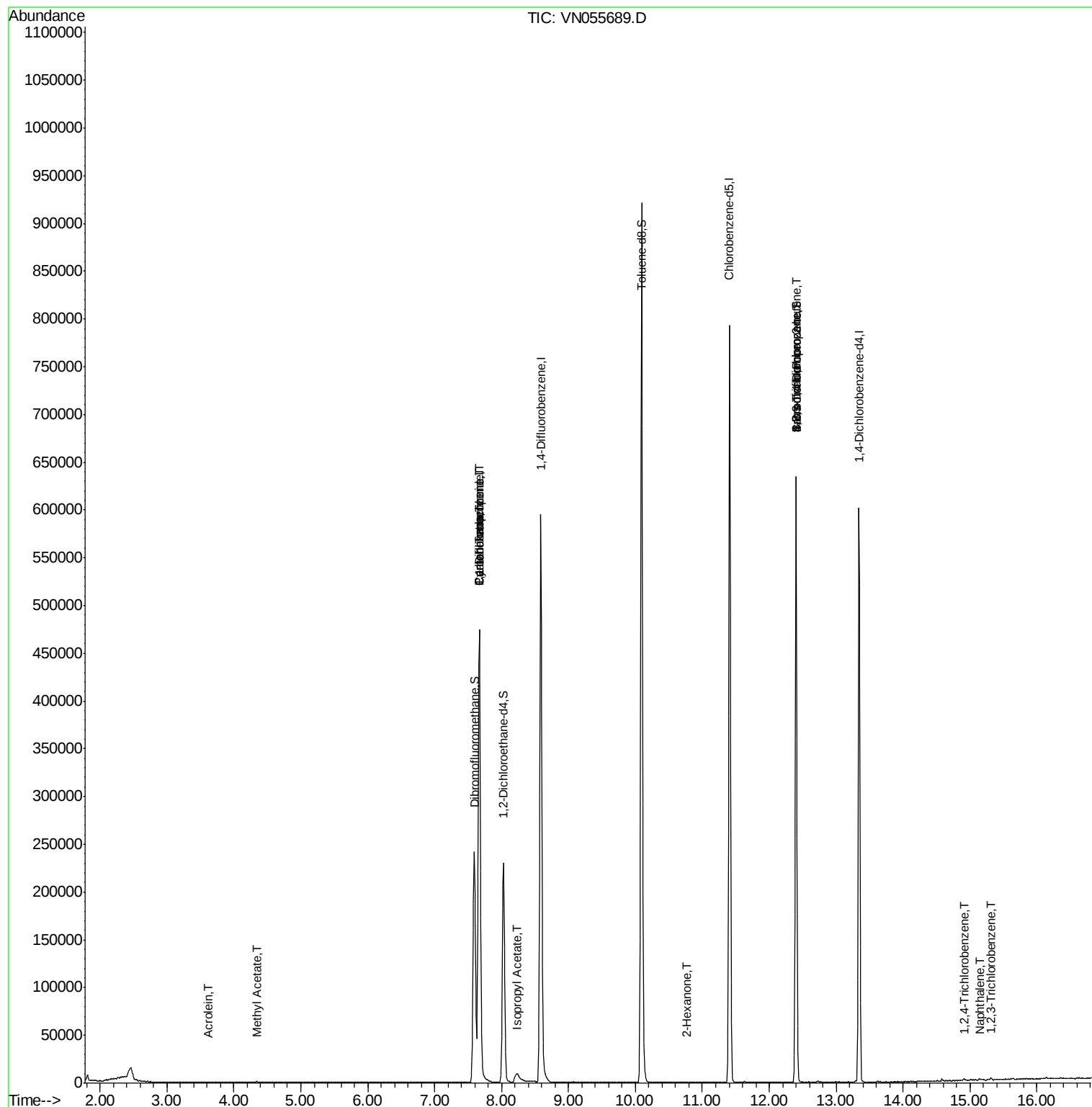
Quant Time: May 21 04:40:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 23:54:12 2019
 Response via : Initial Calibration

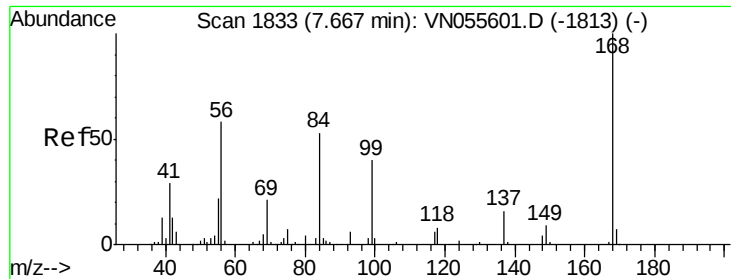
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	466140	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	613945	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	517701	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	182700	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	195931	38.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.68%	
35) Dibromofluoromethane	7.59	113	187121	47.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.96%	
50) Toluene-d8	10.09	98	698599	47.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.74%	
62) 4-Bromofluorobenzene	12.40	95	213135	41.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.70%	
Target Compounds				Qvalue		
13) Acrolein	3.62	56	29	1.421	ug/l #	64
18) Methyl Acetate	4.34	43	2547	0.570	ug/l #	61
31) Cyclohexane	7.66	56	5970	0.788	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	24697	4.512	ug/l #	43
38) Carbon Tetrachloride	7.67	117	36539	6.247	ug/l #	15
43) Isopropyl Acetate	8.24	43	17081	1.988	ug/l #	53
59) 2-Hexanone	10.76	43	877	0.247	ug/l #	23
71) Bromoform	12.40	173	1039	0.291	ug/l #	1
73) Isopropylbenzene	12.25	105	395	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	96663	25.929	ug/l #	100
79) 2-Chlorotoluene	12.67	91	357	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	430	Below Cal	#	28
81) trans-1,4-Dichloro-2-buten	12.40	75	96663	66.652	ug/l #	17
83) tert-Butylbenzene	13.00	119	338	Below Cal	#	44
84) 1,2,4-Trimethylbenzene	13.04	105	515	Below Cal		71
85) sec-Butylbenzene	13.17	105	637	Below Cal	#	56
86) p-Isopropyltoluene	13.29	119	841	Below Cal	#	62
93) 1,2,4-Trichlorobenzene	14.91	180	847	0.269	ug/l	91
94) Hexachlorobutadiene	15.01	225	228	Below Cal		93
95) Naphthalene	15.14	128	1836	1.951	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	1068	0.324	ug/l #	82

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

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Quant Title : SW846 8260
QLast Update : Fri May 17 23:54:12 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: VN055689.D

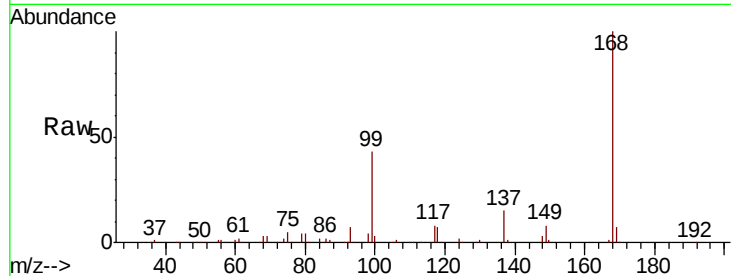
Acq: 20 May 2019 23:32

Tot Ion:168 Resp: 466140

Ion Ratio Lower Upper

168 100

99 42.8 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN055689.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN055689.D (-1740) (-)

7.67

200000

150000

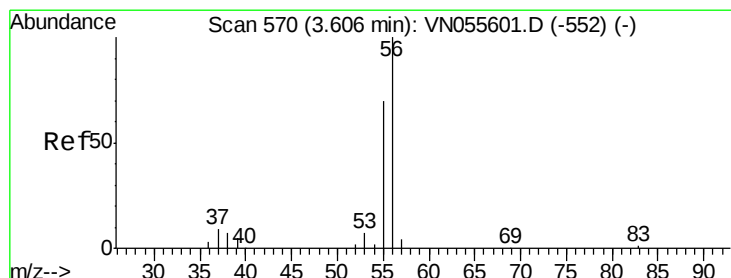
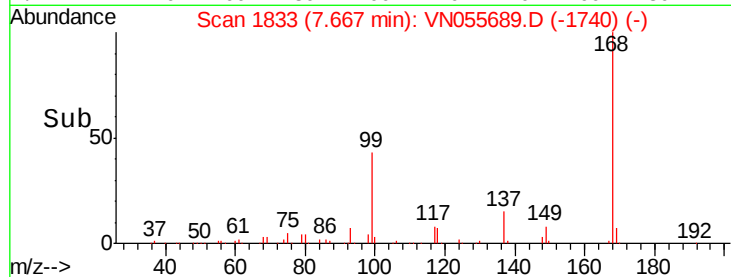
100000

50000

0

7.60 7.70 7.80

Time-->



#13

Acrolein

Concen: 1.421 ug/l

RT: 3.62 min Scan# 575

Delta R.T. 0.02 min

Lab File: VN055689.D

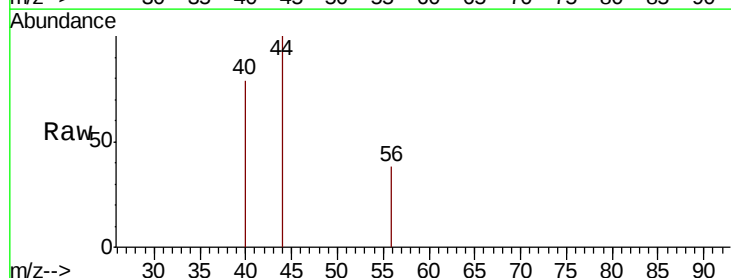
Acq: 20 May 2019 23:32

Tgt Ion: 56 Resp: 29

Ion Ratio Lower Upper

56 100

55 100.0 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VN055689.D (-477) (-)

Ion 55.00 (54.70 to 55.70): VN055689.D (-477) (-)

3.62

150

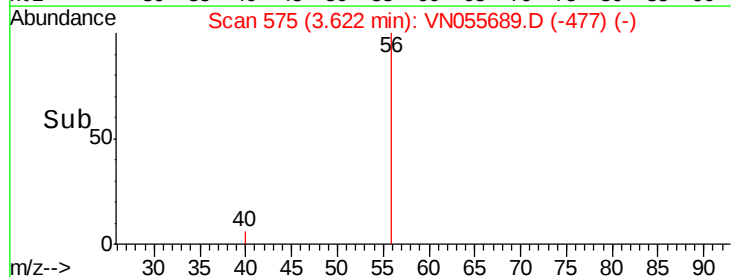
100

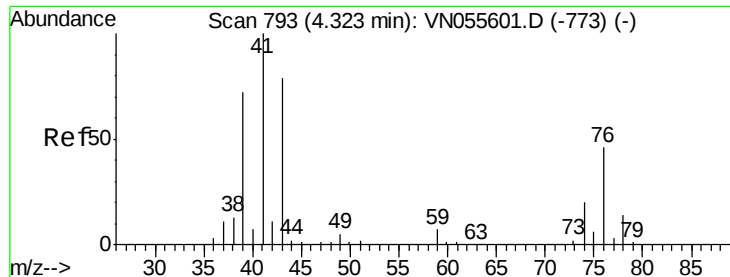
50

0

3.61 3.62 3.63 3.63

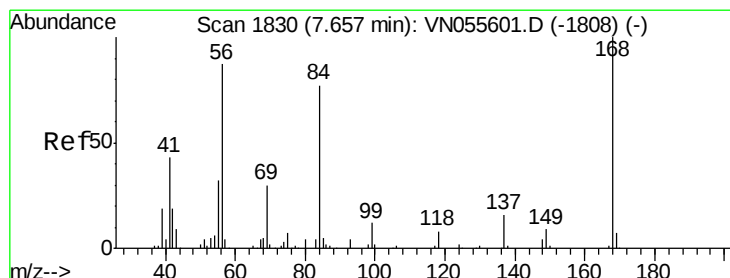
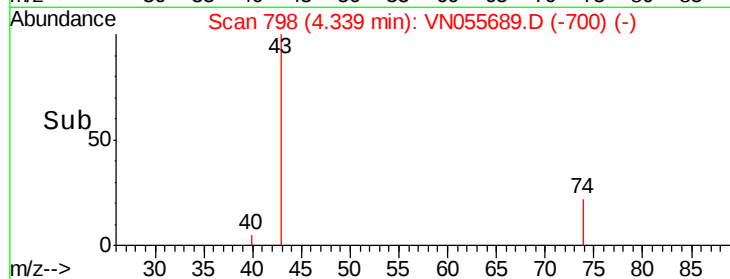
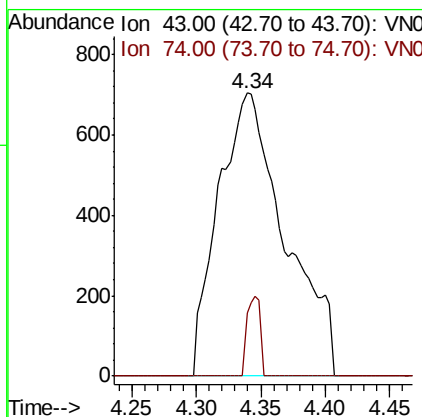
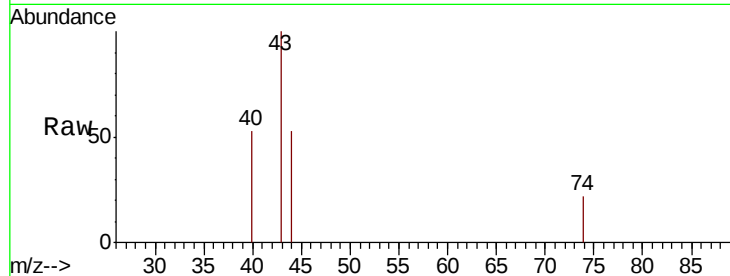
Time-->





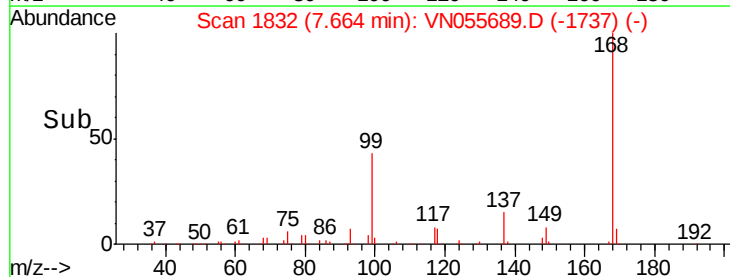
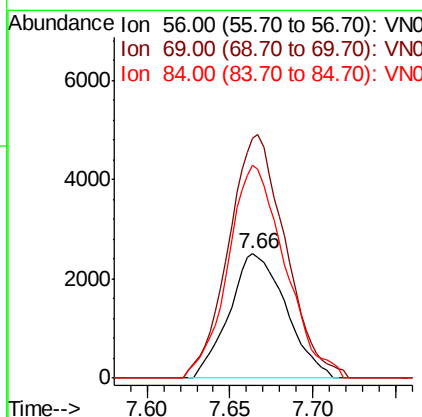
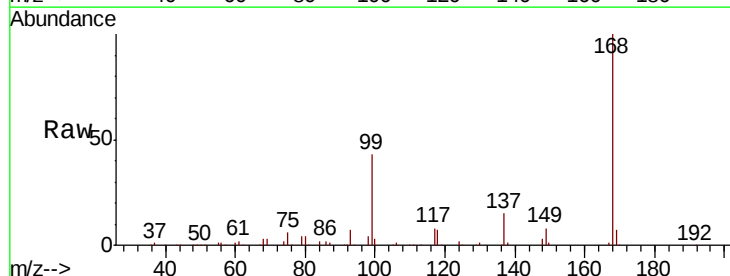
#18
Methvl Acetate
Concen: 0.570 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.02 min
Lab File: VN055689.D
Acq: 20 May 2019 23:32

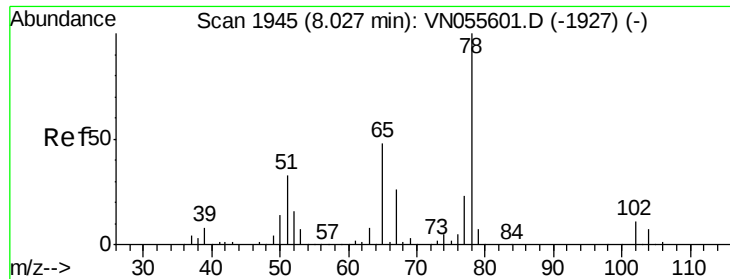
Tot Ion: 43 Resp: 2547
Ion Ratio Lower Upper
43 100
74 5.5 19.9 29.9#



#31
Cyclohexane
Concen: 0.788 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN055689.D
Acq: 20 May 2019 23:32

Tgt Ion: 56 Resp: 5970
Ion Ratio Lower Upper
56 100
69 186.5 27.2 40.8#
84 164.4 71.3 106.9#





#33

1,2-Dichloroethane-d4

Concen: 38.344 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN055689.D

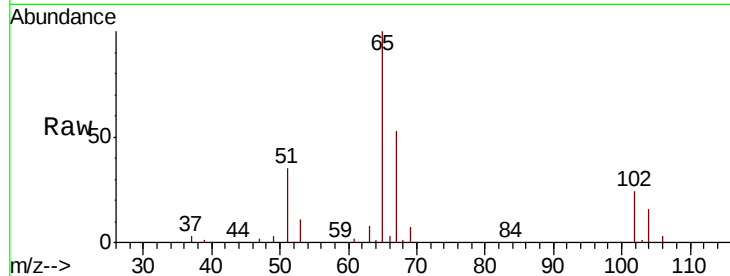
Acq: 20 May 2019 23:32

Tot Ion: 65 Resp: 195931

Ion Ratio Lower Upper

65 100

67 53.9 0.0 108.6

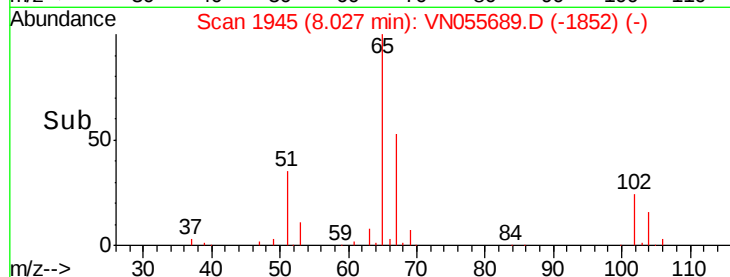


Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.03

Time-->



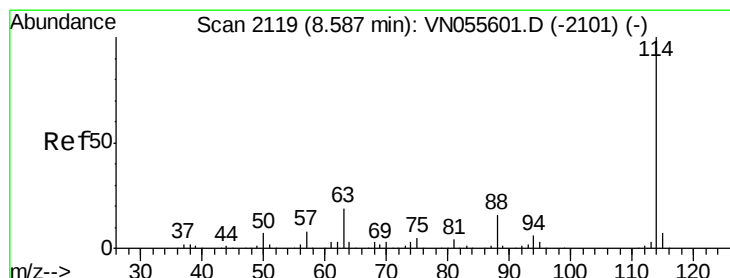
Abundance

Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.03

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN055689.D

Acq: 20 May 2019 23:32

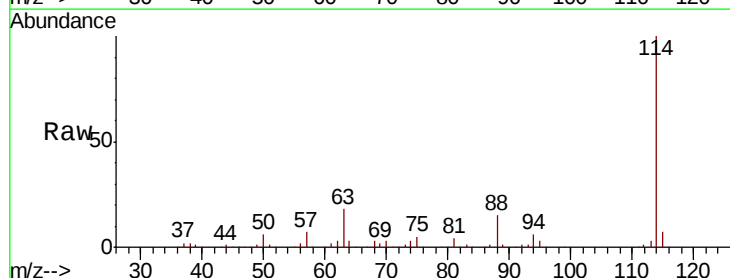
Tgt Ion: 114 Resp: 613945

Ion Ratio Lower Upper

114 100

63 17.7 0.0 38.2

88 15.2 0.0 31.0



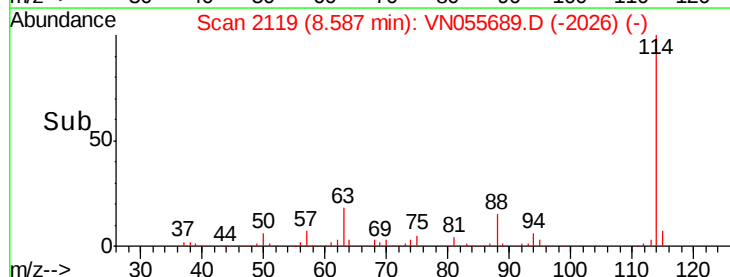
Abundance Ion 113.90 (113.60 to 114.60): VN0

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

8.59

Time-->



Abundance

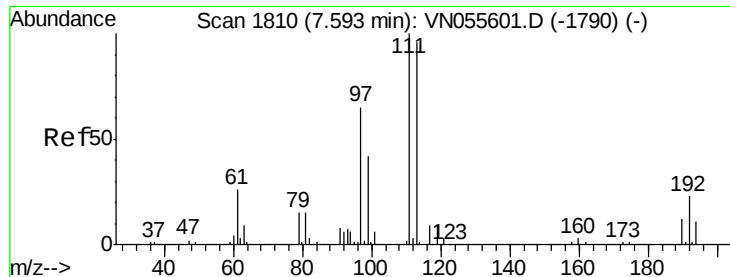
Ion 113.90 (113.60 to 114.60): VN0

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

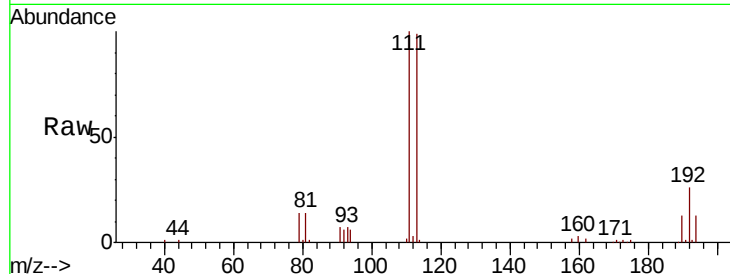
8.59

Time-->

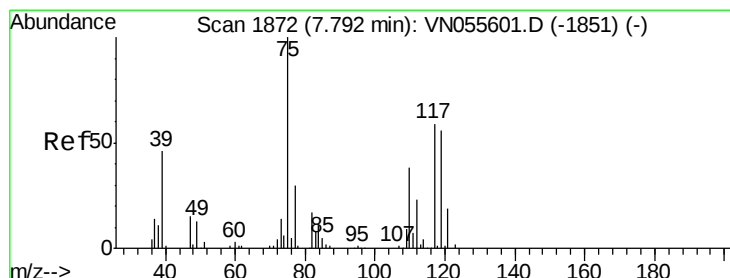
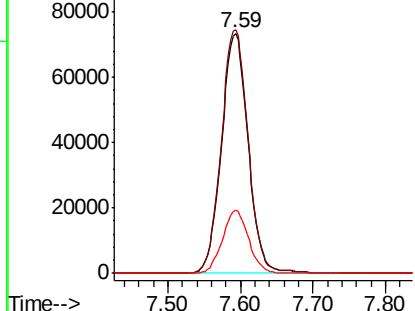
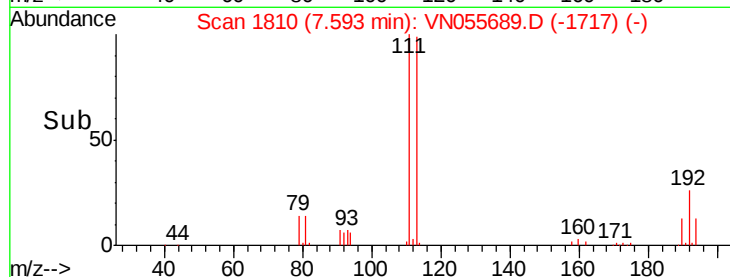


#35
 Dibromofluoromethane
 Concen: 47.979 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN055689.D
 Acq: 20 May 2019 23:32

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.5	123.7
192	25.6	18.7	28.1

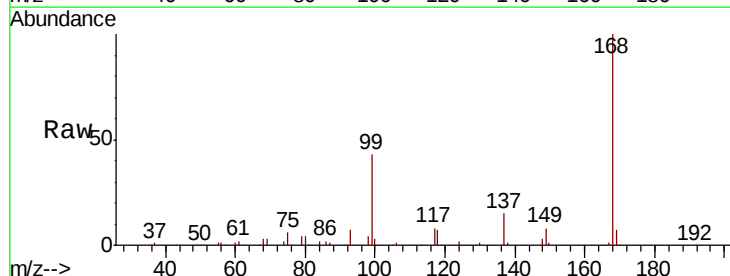


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

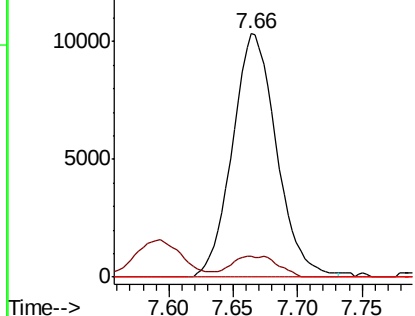
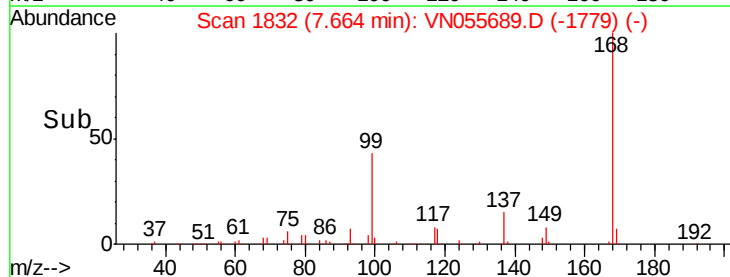


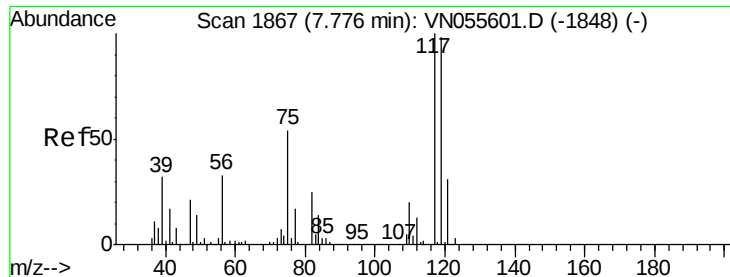
#36
 1,1-Dichloropropene
 Concen: 4.512 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN055689.D
 Acq: 20 May 2019 23:32

Tgt Ion	Ratio	Lower	Upper
75	100		
110	3.0	18.6	55.6#
77	0.0	24.9	37.3#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.247 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN055689.D

Acq: 20 May 2019 23:32

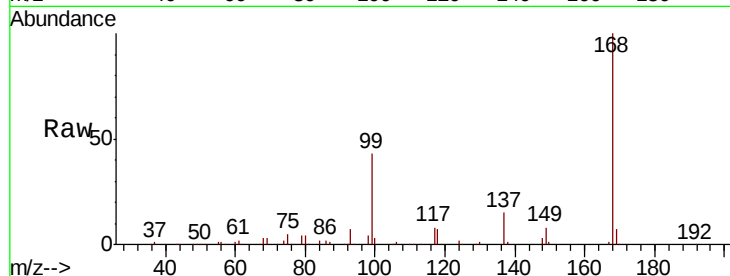
Tot Ion:117 Resp: 36539

Ion Ratio Lower Upper

117 100

119 4.5 77.8 116.8#

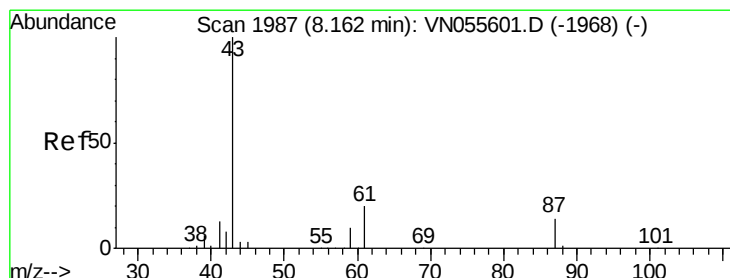
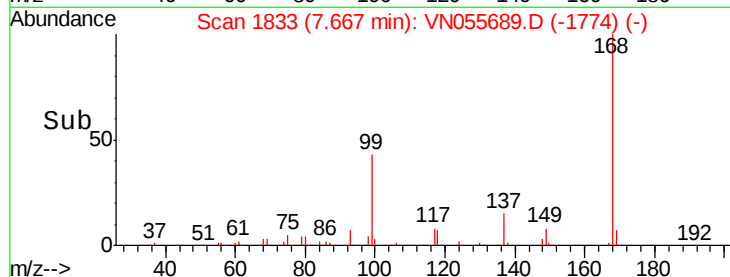
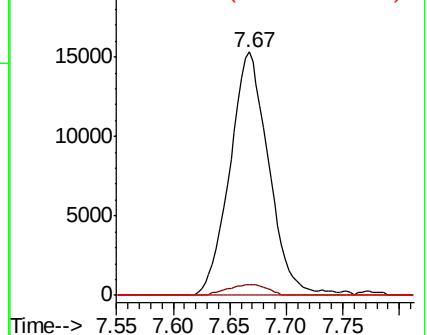
121 0.0 24.6 37.0#



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: 1.988 ug/l

RT: 8.24 min Scan# 2010

Delta R.T. 0.07 min

Lab File: VN055689.D

Acq: 20 May 2019 23:32

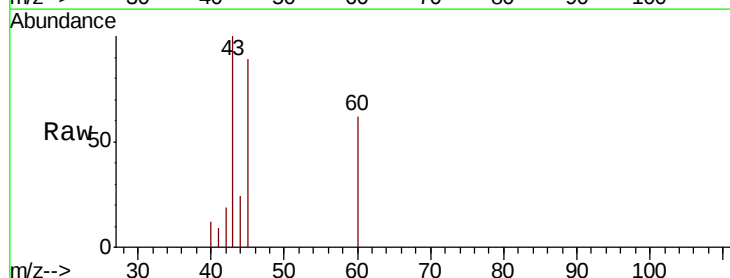
Tgt Ion: 43 Resp: 17081

Ion Ratio Lower Upper

43 100

61 0.0 22.1 33.1#

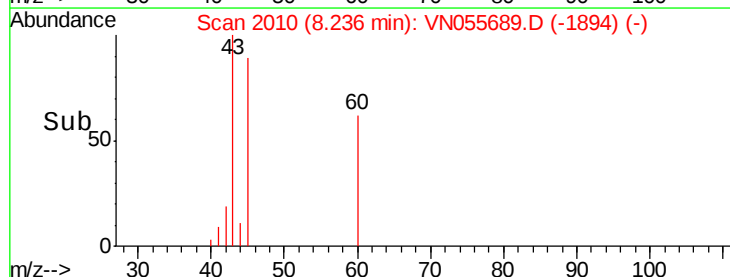
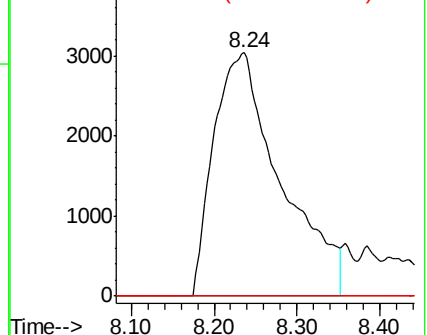
87 0.0 11.8 17.6#

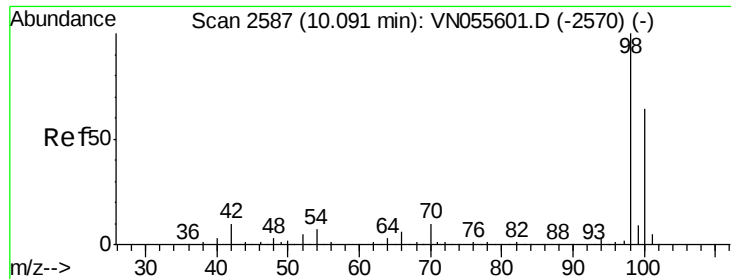


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

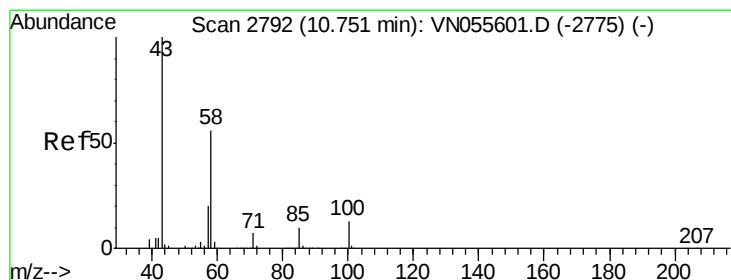
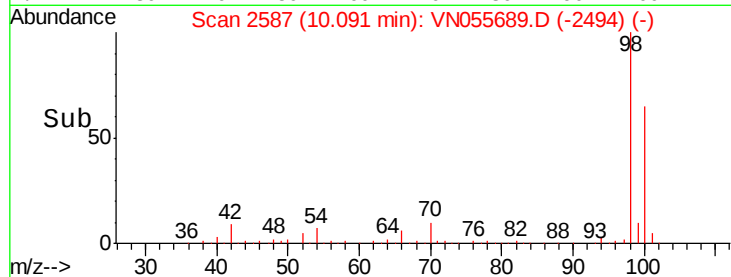
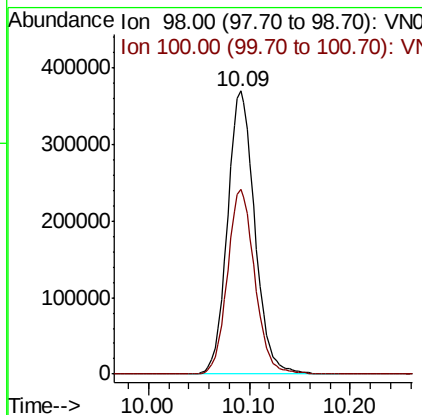
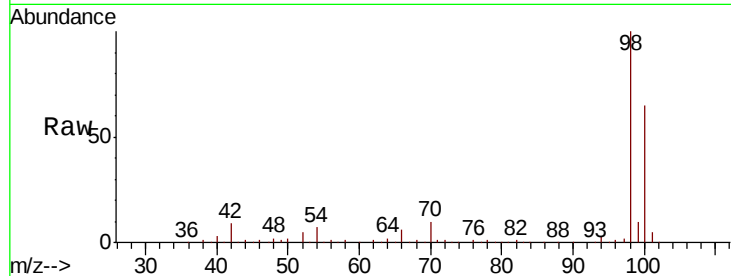
Ion 87.00 (86.70 to 87.70): VNO





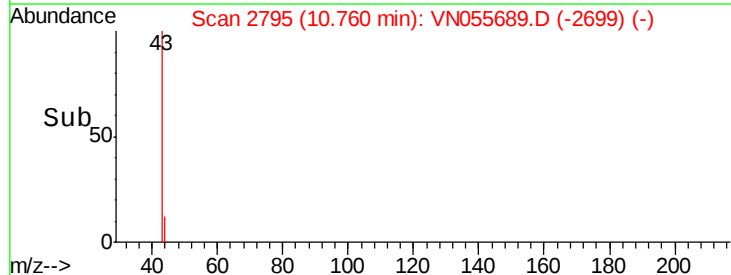
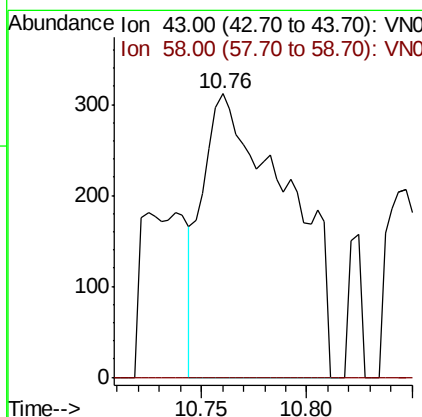
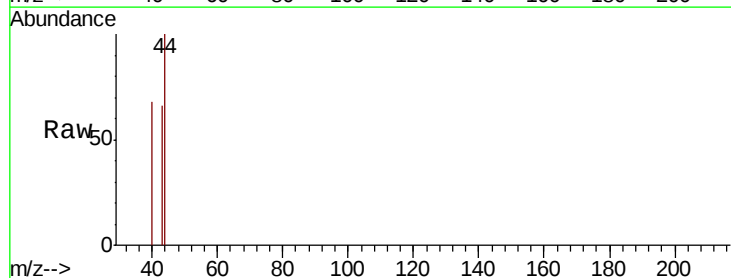
#50
Toluene-d8
Concen: 47.374 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN055689.D
Acq: 20 May 2019 23:32

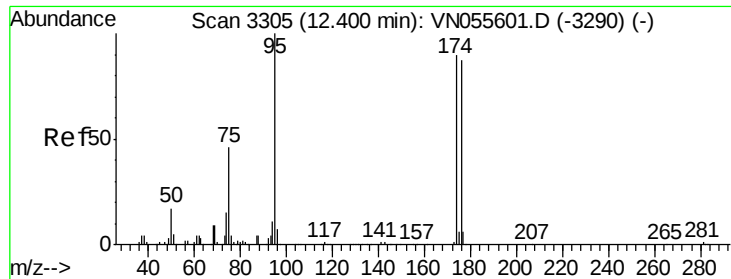
Tot Ion: 98 Resp: 698599
Ion Ratio Lower Upper
98 100
100 65.3 51.9 77.9



#59
2-Hexanone
Concen: 0.247 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN055689.D
Acq: 20 May 2019 23:32

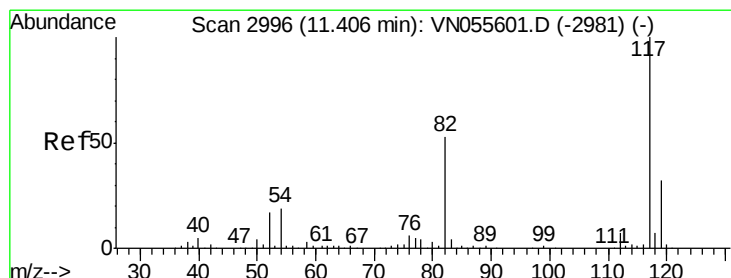
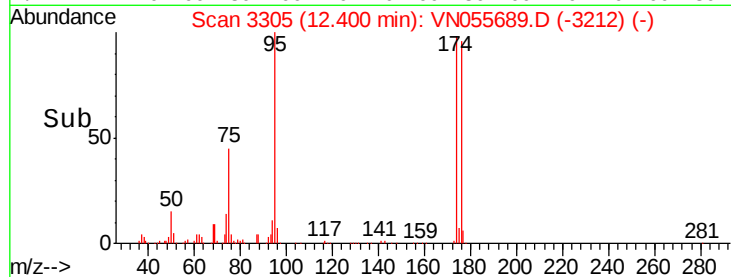
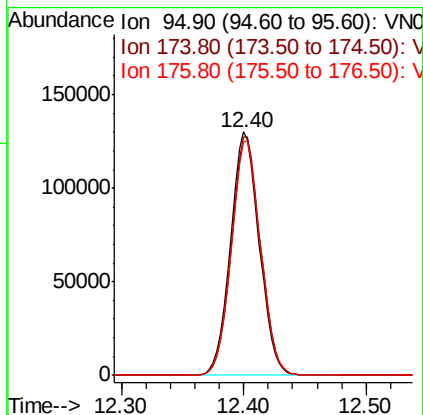
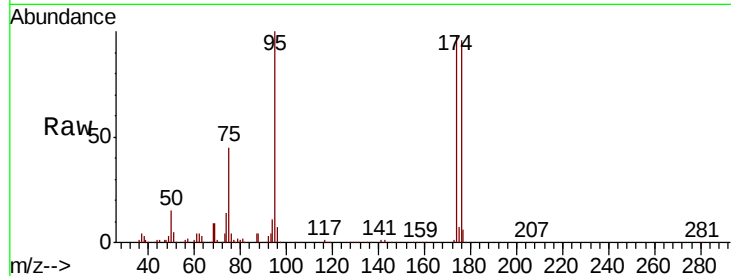
Tgt Ion: 43 Resp: 877
Ion Ratio Lower Upper
43 100
58 0.0 28.1 84.4#





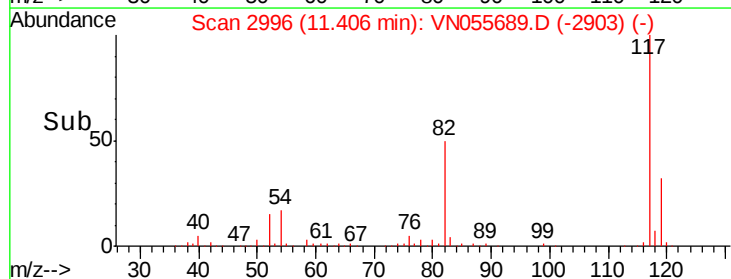
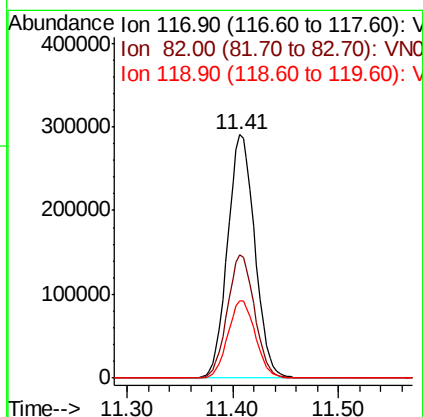
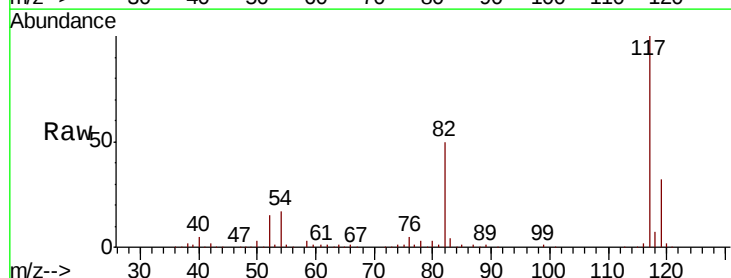
#62
4-Bromofluorobenzene
Concen: 41.855 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN055689.D
Acq: 20 May 2019 23:32

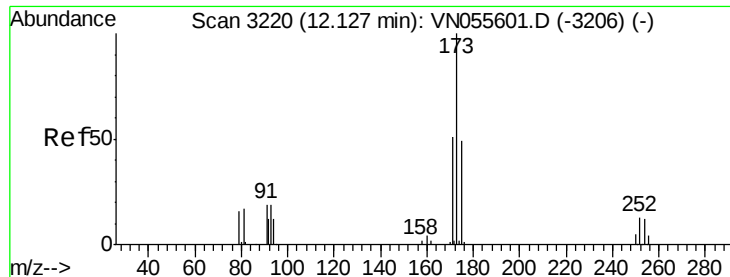
Tot Ion	Ratio	Lower	Upper
95	100		
174	99.2	0.0	180.6
176	97.5	0.0	177.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055689.D
Acq: 20 May 2019 23:32

Tgt Ion	Ratio	Lower	Upper
117	100		
82	50.5	42.3	63.5
119	31.9	25.4	38.2





#71

Bromoform

Concen: 0.291 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN055689.D

Acq: 20 May 2019 23:32

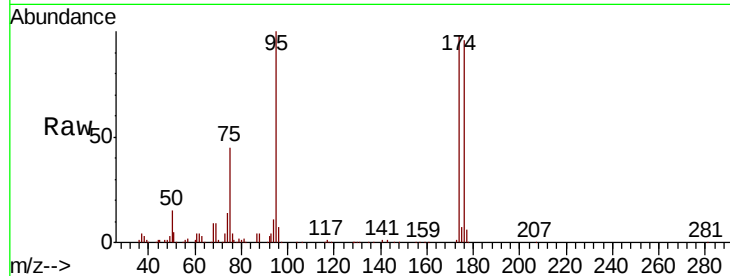
Tot Ion:173 Resp: 1039

Ion Ratio Lower Upper

173 100

175 1313.5 24.3 72.9#

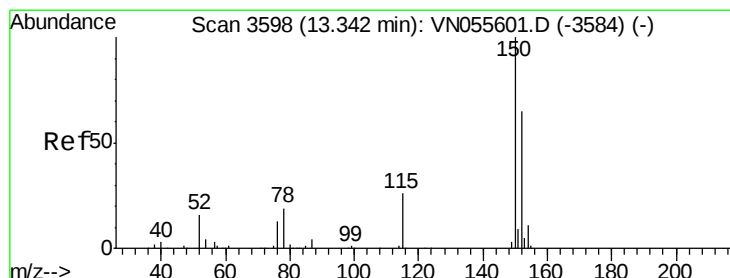
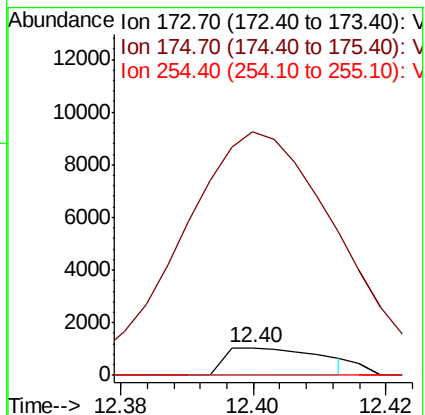
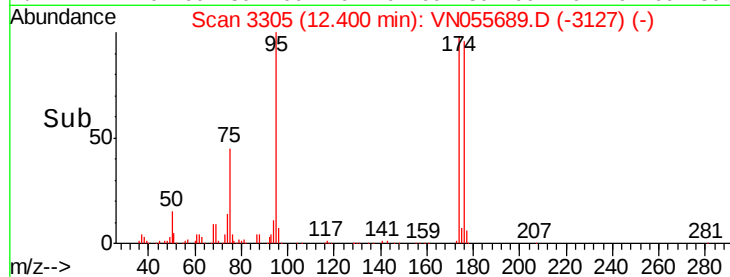
254 0.0 0.1 0.1#



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: VN055689.D

Acq: 20 May 2019 23:32

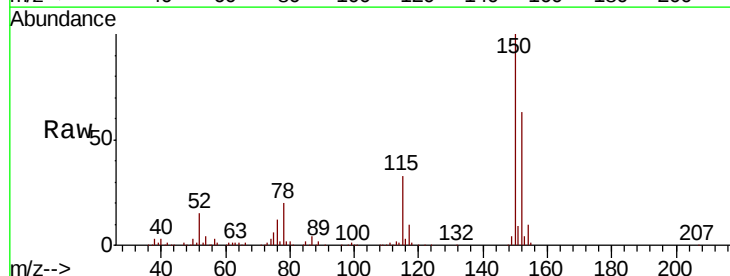
Tgt Ion:152 Resp: 182700

Ion Ratio Lower Upper

152 100

115 52.0 28.1 84.2

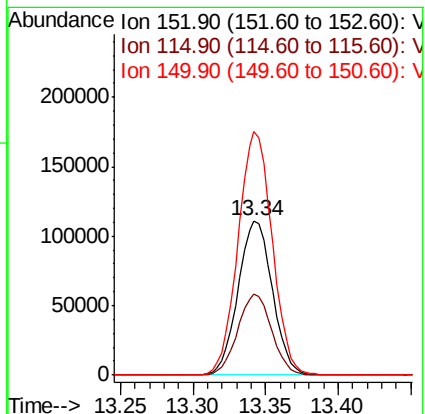
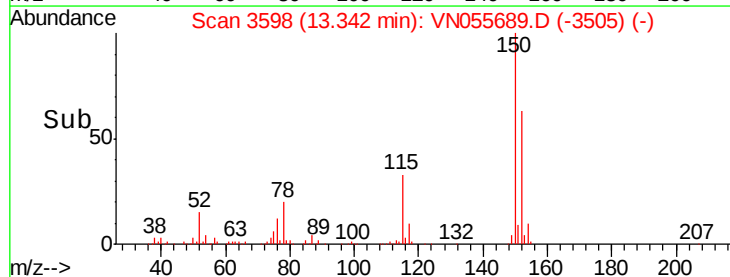
150 156.9 0.0 348.0

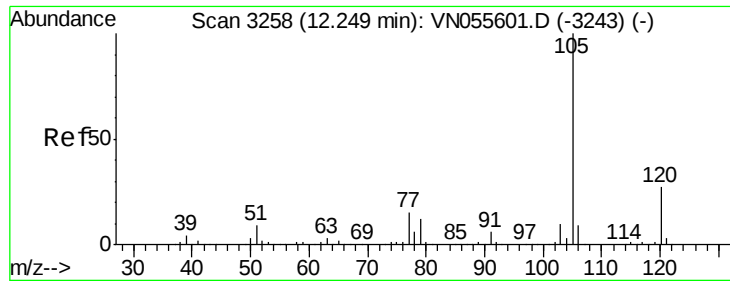


Abundance Ion 151.90 (151.60 to 152.60): V

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# 3257

Delta R.T. -0.00 min

Lab File: VN055689.D

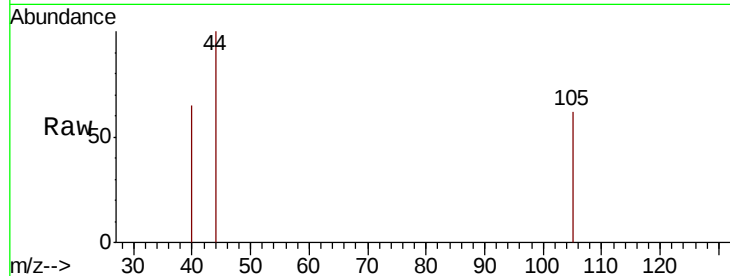
Acq: 20 May 2019 23:32

Tot Ion: 105 Resp: 395

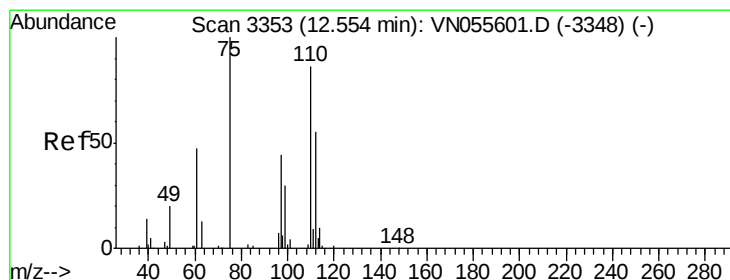
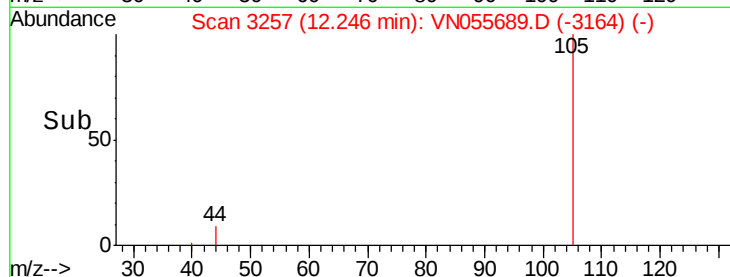
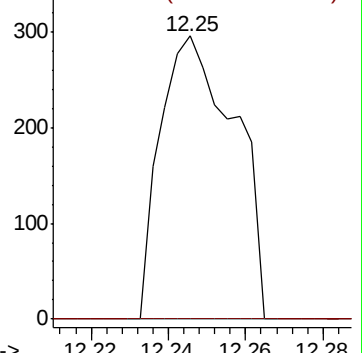
Ion Ratio Lower Upper

105 100

120 0.0 13.4 40.2#



Abundance Ion 105.00 (104.70 to 105.70): V



#76

1,2,3-Trichloropropane

Concen: 25.929 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055689.D

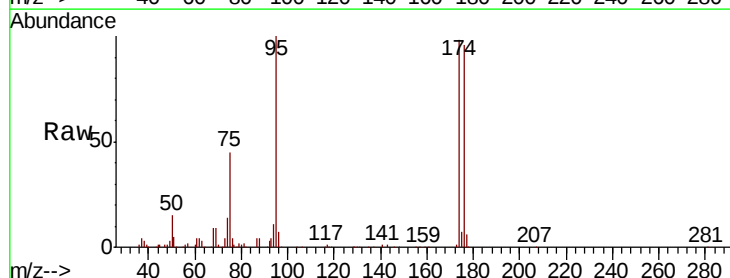
Acq: 20 May 2019 23:32

Tgt Ion: 75 Resp: 96663

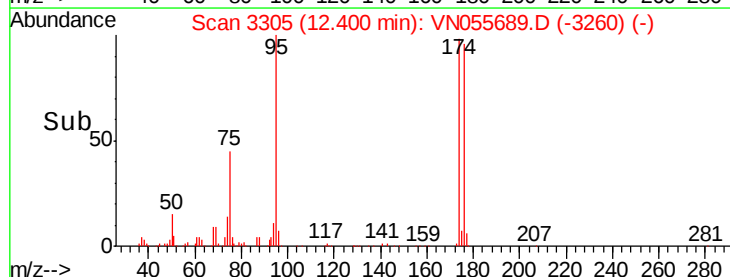
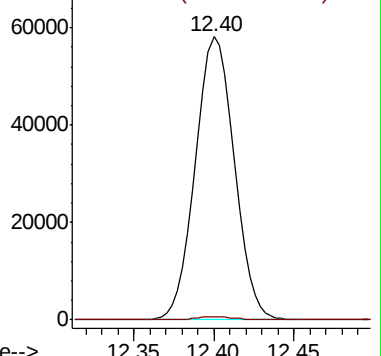
Ion Ratio Lower Upper

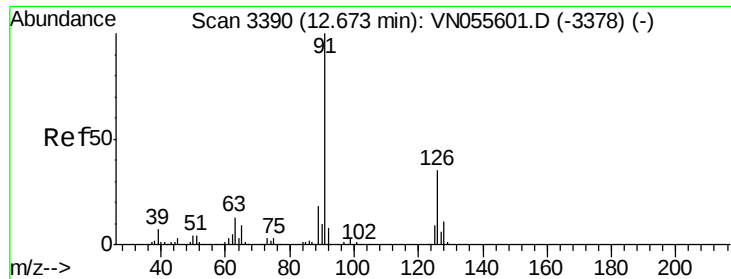
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055689.D

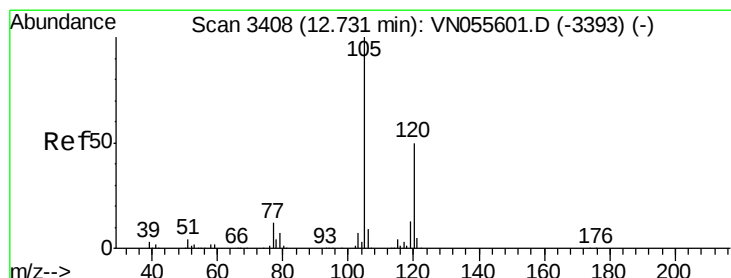
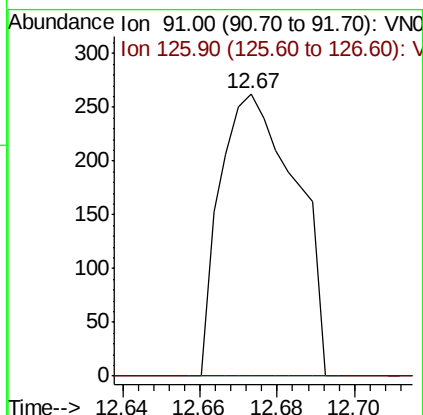
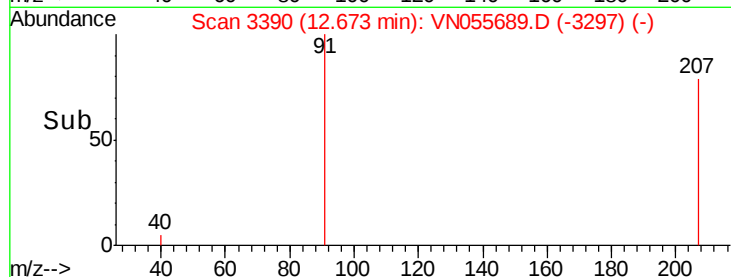
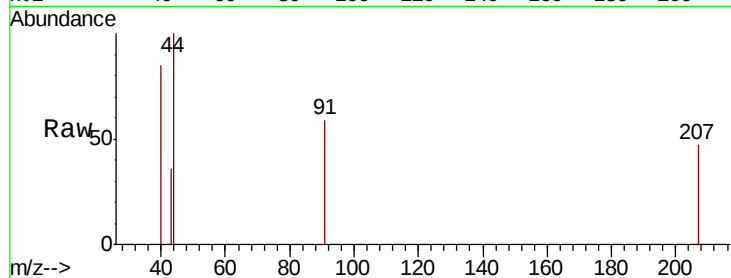
Acq: 20 May 2019 23:32

Tot Ion: 91 Resp: 357

Ion Ratio Lower Upper

91 100

126 0.0 17.8 53.4#



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055689.D

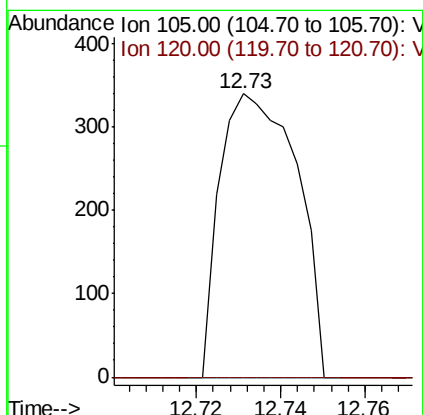
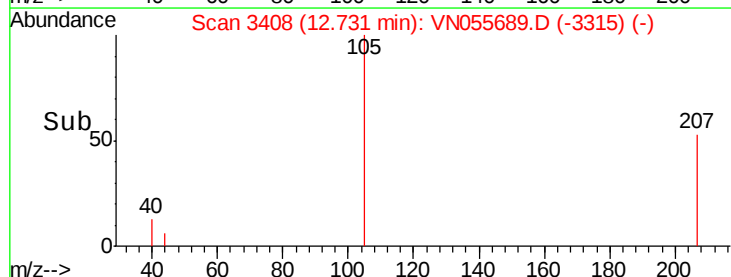
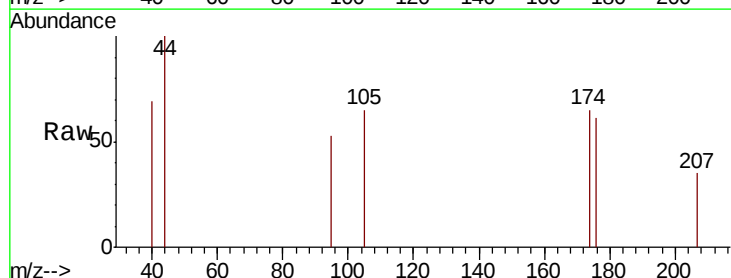
Acq: 20 May 2019 23:32

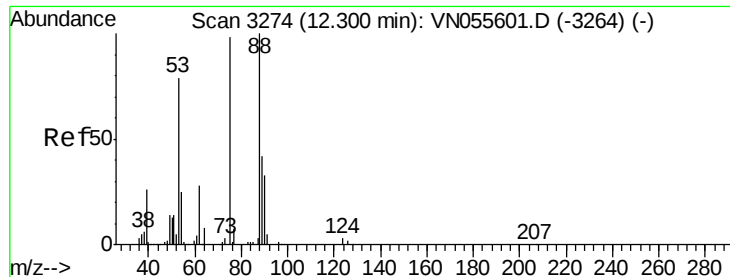
Tgt Ion: 105 Resp: 430

Ion Ratio Lower Upper

105 100

120 0.0 24.6 74.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 66.652 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055689.D

Acq: 20 May 2019 23:32

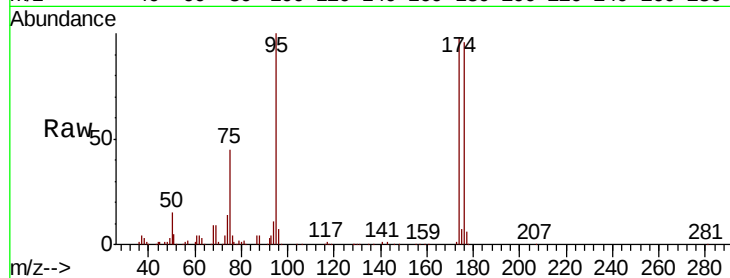
Tot Ion: 75 Resp: 96663

Ion Ratio Lower Upper

75 100

53 0.0 65.1 97.7#

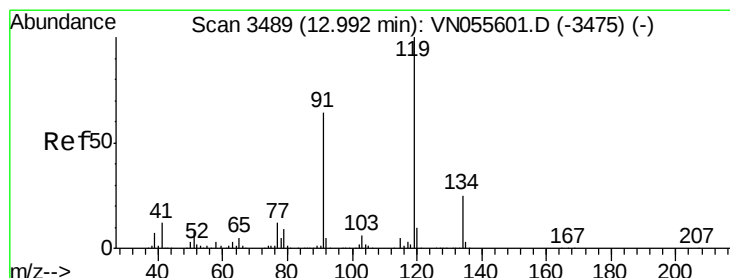
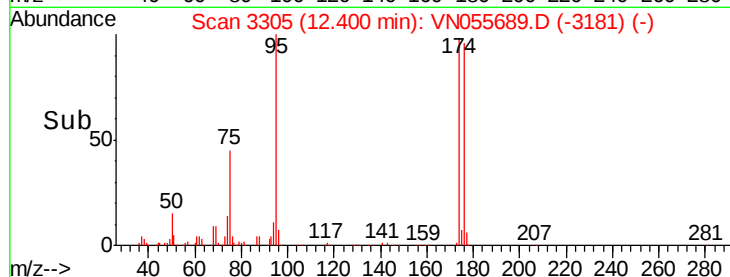
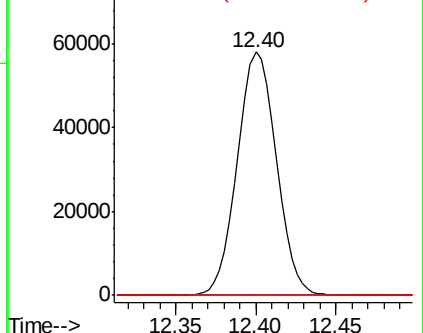
89 0.0 36.4 54.6#



Abundance Ion 74.90 (74.60 to 75.60): VN055689.D (-3305) (-)

Ion 53.00 (52.70 to 53.70): VN055689.D (-3305) (-)

Ion 88.90 (88.60 to 89.60): VN055689.D (-3305) (-)



#83

tert-Butylbenzene

Concen: Below Cal

RT: 13.00 min Scan# 3491

Delta R.T. 0.01 min

Lab File: VN055689.D

Acq: 20 May 2019 23:32

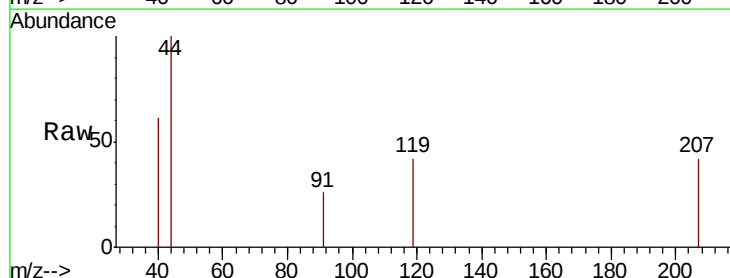
Tgt Ion: 119 Resp: 338

Ion Ratio Lower Upper

119 100

91 18.0 31.3 93.8#

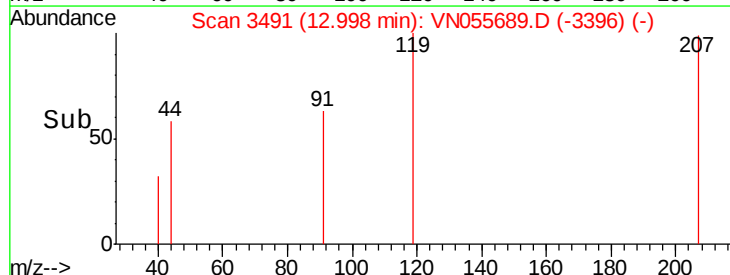
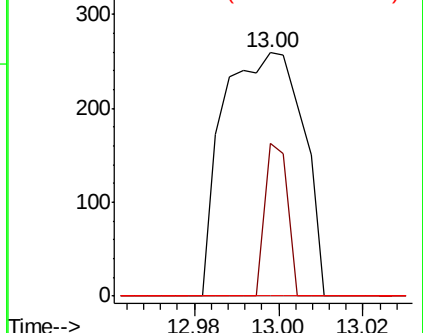
134 0.0 13.2 39.6#

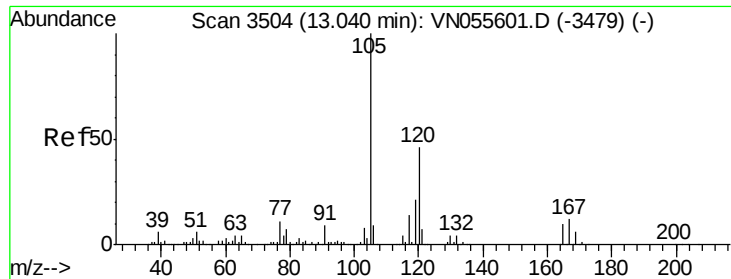


Abundance Ion 119.00 (118.70 to 119.70): VN055689.D (-3489) (-)

Ion 91.00 (90.70 to 91.70): VN055689.D (-3489) (-)

Ion 134.00 (133.70 to 134.70): VN055689.D (-3489) (-)





#84

1,2,4-Trimethylbenzene

Concen: Below Cal

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN055689.D

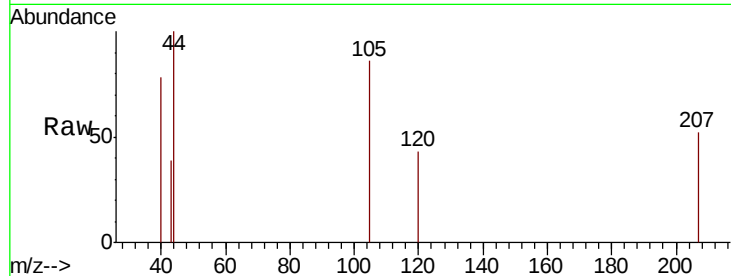
Acq: 20 May 2019 23:32

Tot Ion:105 Resp: 515

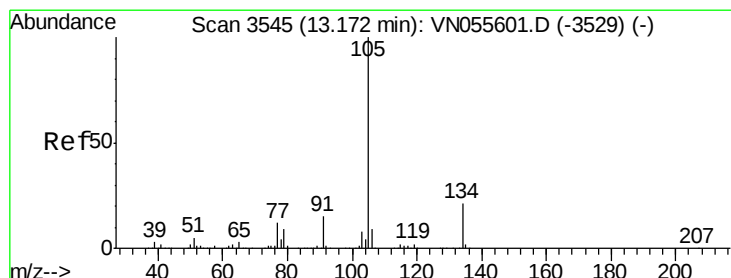
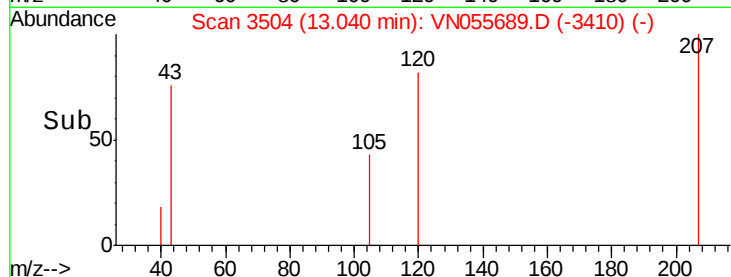
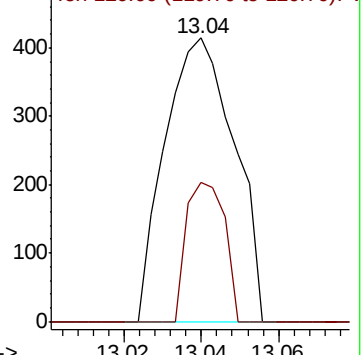
Ion Ratio Lower Upper

105 100

120 27.2 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): V



#85

sec-Butylbenzene

Concen: Below Cal

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN055689.D

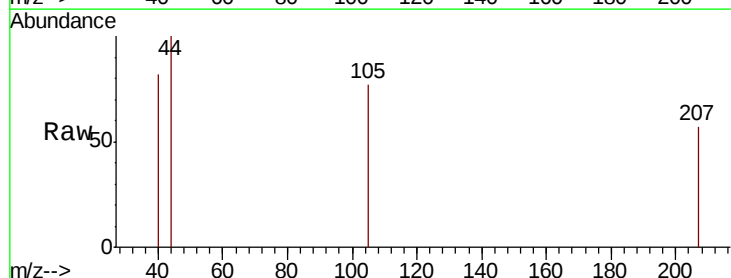
Acq: 20 May 2019 23:32

Tgt Ion:105 Resp: 637

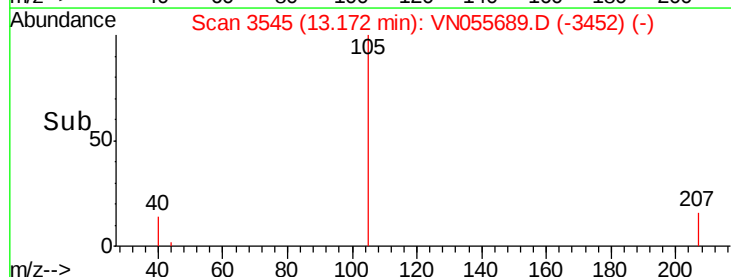
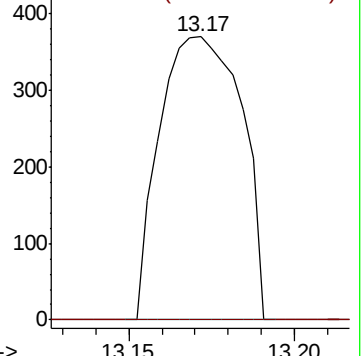
Ion Ratio Lower Upper

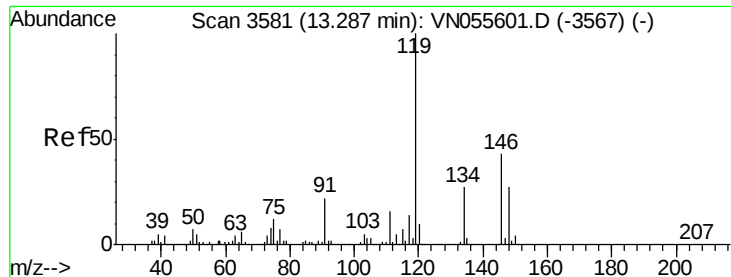
105 100

134 0.0 10.3 30.9#



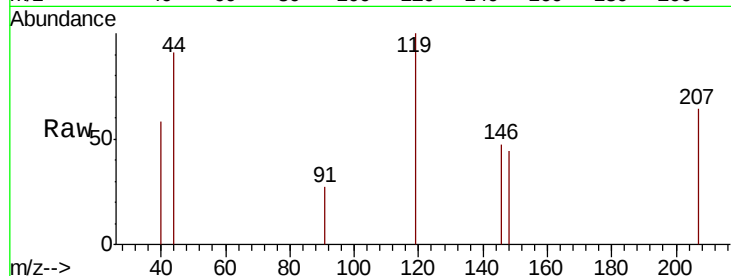
Abundance Ion 105.00 (104.70 to 105.70): V



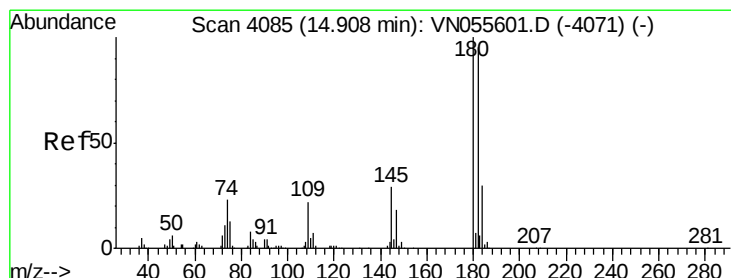
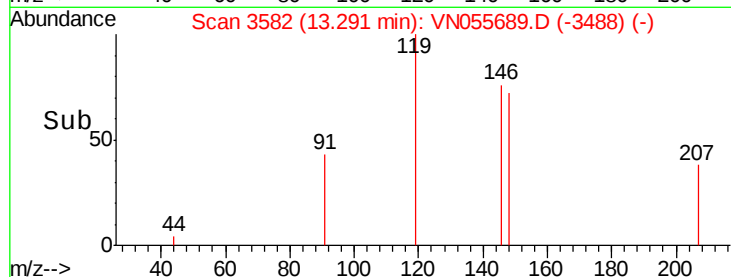
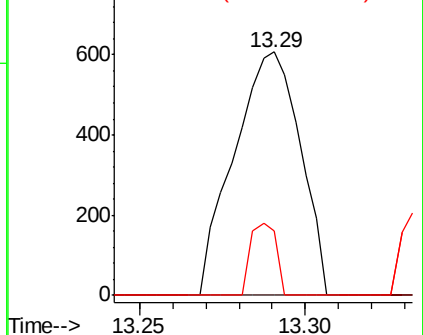


#86
 p-Isopropyltoluene
 Concen: Below Cal
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN055689.D
 Acq: 20 May 2019 23:32

Tot Ion:119 Resp: 841
 Ion Ratio Lower Upper
 119 100
 134 0.0 13.4 40.2#
 91 11.5 11.0 33.0

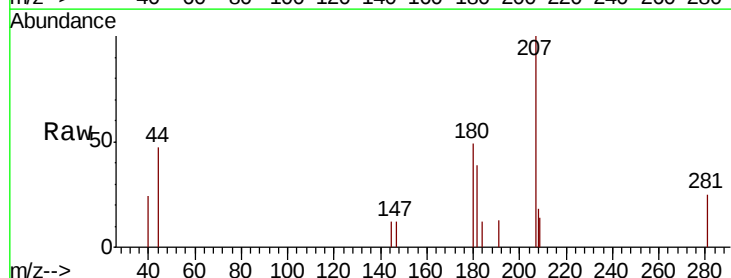


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 134.00 (133.70 to 134.70): V
 Ion 91.00 (90.70 to 91.70): V

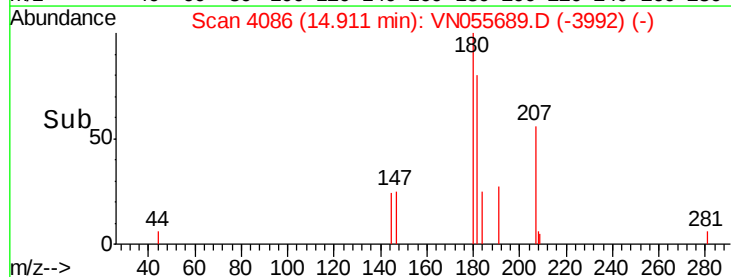
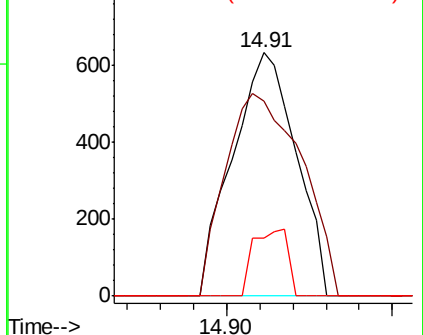


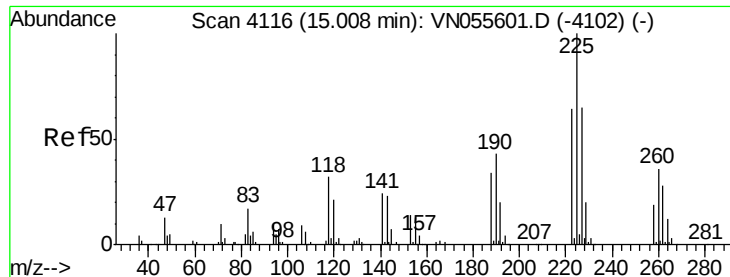
#93
 1,2,4-Trichlorobenzene
 Concen: 0.269 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN055689.D
 Acq: 20 May 2019 23:32

Tgt Ion:180 Resp: 847
 Ion Ratio Lower Upper
 180 100
 182 100.1 47.9 143.6
 145 14.8 14.3 42.9



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





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VN055689.D

Acq: 20 May 2019 23:32

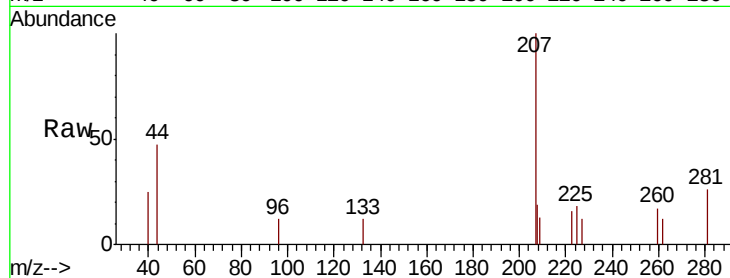
Tot Ion: 225 Resp: 228

Ion Ratio Lower Upper

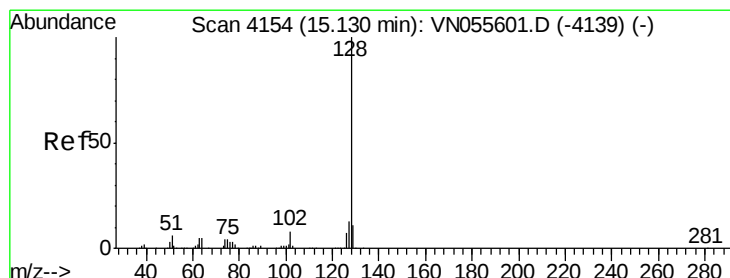
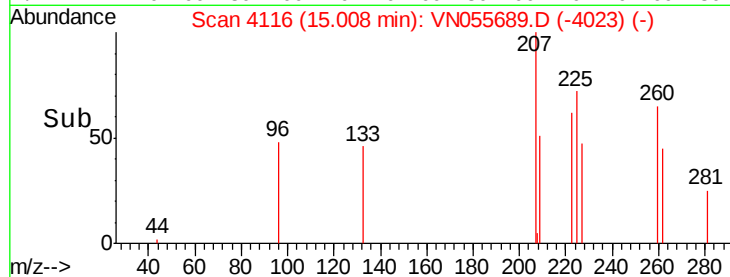
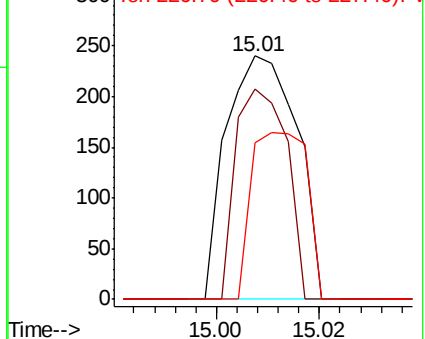
225 100

223 62.3 31.6 94.7

227 53.9 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: 1.951 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN055689.D

Acq: 20 May 2019 23:32

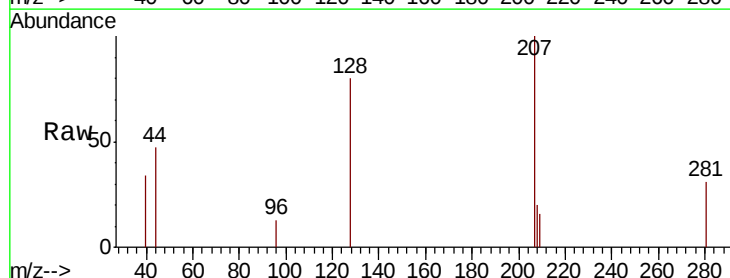
Tgt Ion: 128 Resp: 1836

Ion Ratio Lower Upper

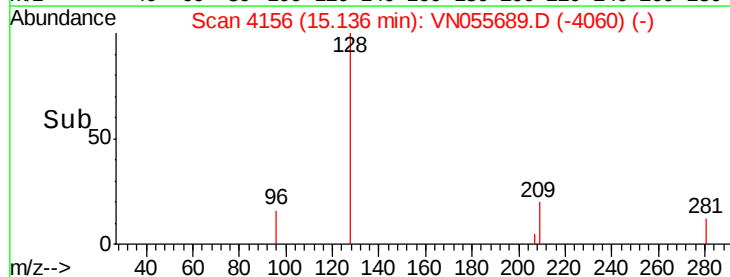
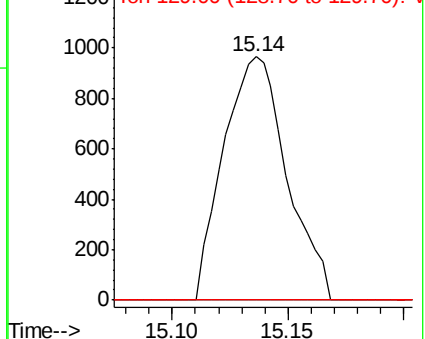
128 100

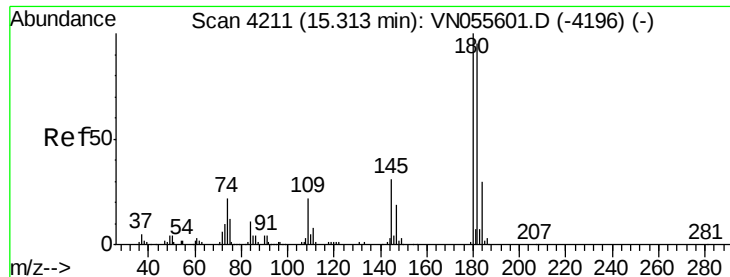
127 0.0 10.2 15.4#

129 0.0 8.6 12.8#



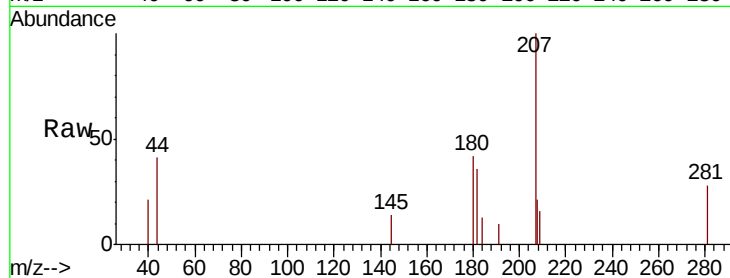
Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.324 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN055689.D
 Acq: 20 May 2019 23:32

Tot Ion	Ratio	Lower	Upper
180	100		
182	82.5	47.9	143.6
145	13.9	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

