

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052019\
 Data File : VN055691.D
 Acq On : 21 May 2019 00:20
 Operator : JC/SP
 Sample : K2953-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 37 Sample Multiplier: 1

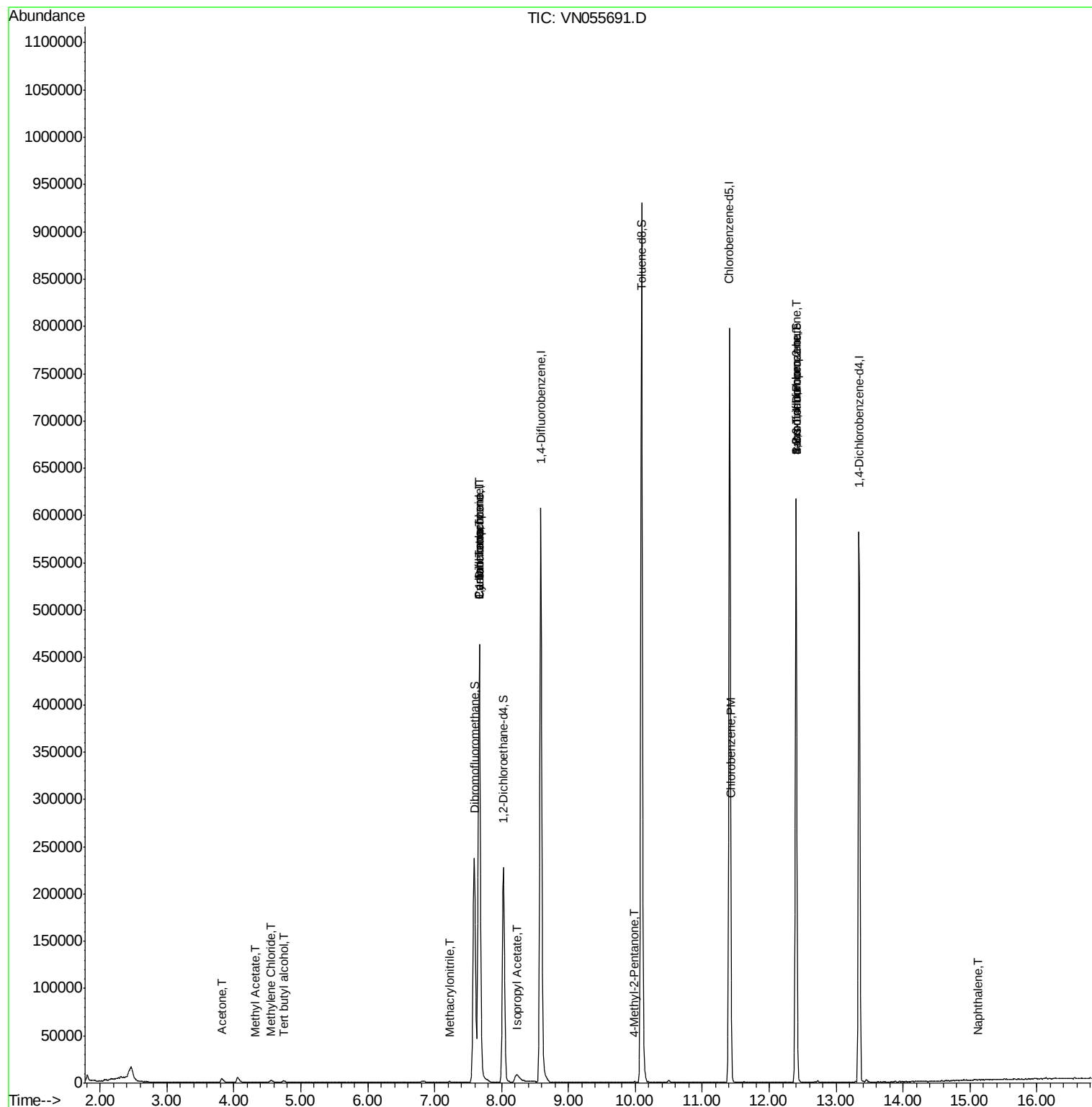
Quant Time: May 21 04:40:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 23:54:12 2019
 Response via : Initial Calibration

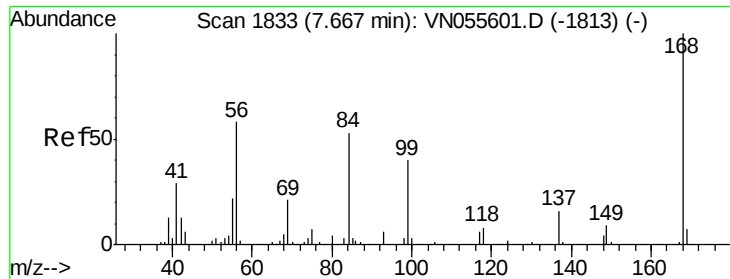
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	457200	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	611866	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	518842	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	180996	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	191093	38.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.26%	
35) Dibromofluoromethane	7.59	113	185161	47.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.28%	
50) Toluene-d8	10.09	98	699502	47.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.20%	
62) 4-Bromofluorobenzene	12.40	95	213106	41.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.98%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.75	59	1612	1.725	ug/l #	74
16) Acetone	3.82	43	7536	3.685	ug/l	99
18) Methyl Acetate	4.33	43	2188	0.499	ug/l #	50
20) Methylene Chloride	4.55	84	1973	0.423	ug/l	96
31) Cyclohexane	7.67	56	5925	0.797	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	24815	4.549	ug/l #	49
38) Carbon Tetrachloride	7.67	117	36001	6.176	ug/l #	15
41) Methacrylonitrile	7.23	41	555	0.264	ug/l #	100
43) Isopropyl Acetate	8.23	43	7928	0.926	ug/l #	53
51) 4-Methyl-2-Pentanone	9.98	43	1257	0.250	ug/l #	59
65) Chlorobenzene	11.44	112	2474	0.236	ug/l	95
71) Bromoform	12.40	173	1385	0.387	ug/l #	1
73) Isopropylbenzene	12.25	105	30	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	96006	25.995	ug/l #	100
79) 2-Chlorotoluene	12.59	91	294	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	96006	66.822	ug/l #	17
84) 1,2,4-Trimethylbenzene	13.04	105	253	Below Cal	#	30
85) sec-Butylbenzene	13.17	105	270	Below Cal	#	56
86) p-Isopropyltoluene	13.28	119	328	Below Cal	#	51
95) Naphthalene	15.13	128	389	1.804	ug/l #	69

(#) = 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: VN055691.D

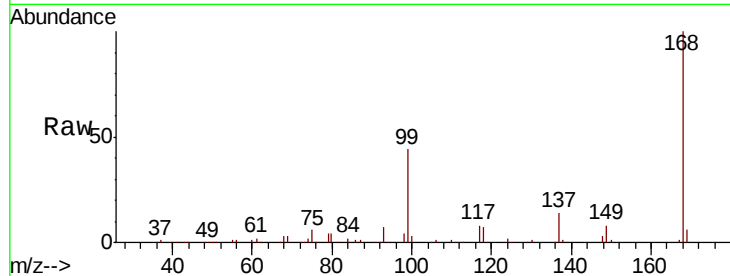
Acq: 21 May 2019 00:20

Tot Ion:168 Resp: 457200

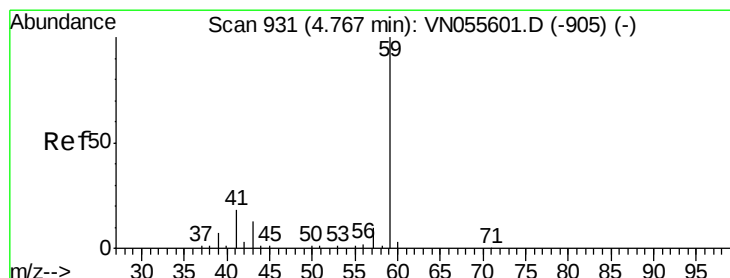
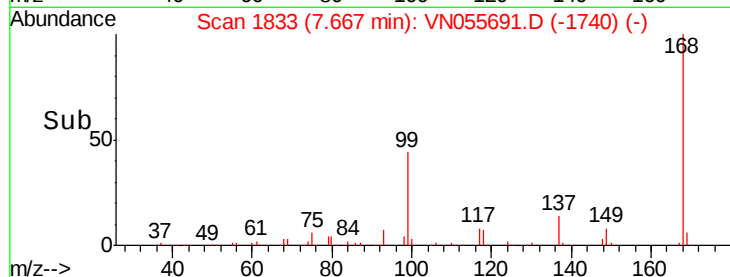
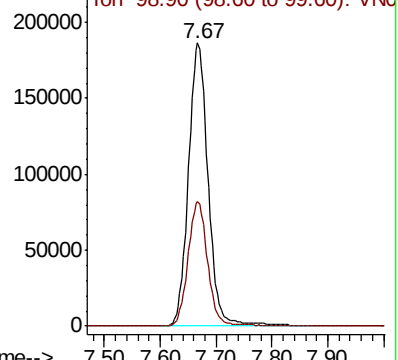
Ion Ratio Lower Upper

168 100

99 43.9 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN055691.D (-1740) (-)



#11

Tert butyl alcohol

Concen: 1.725 ug/l

RT: 4.75 min Scan# 926

Delta R.T. -0.02 min

Lab File: VN055691.D

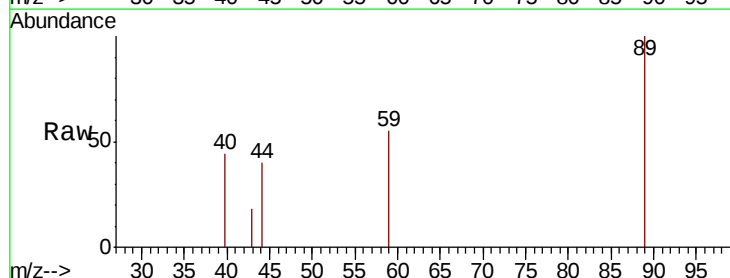
Acq: 21 May 2019 00:20

Tgt Ion: 59 Resp: 1612

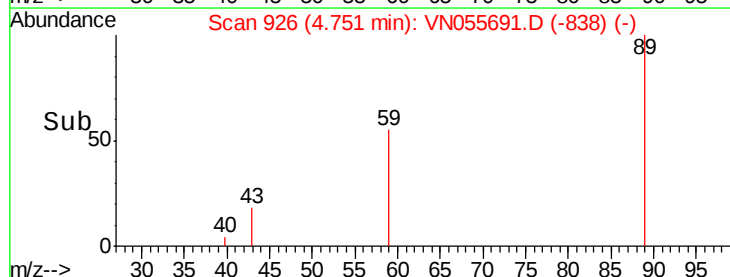
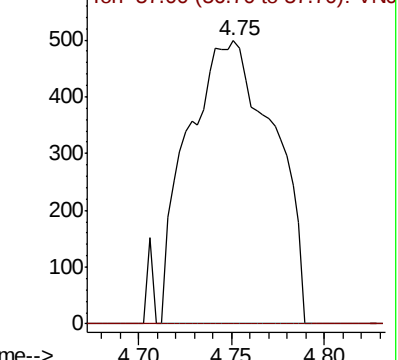
Ion Ratio Lower Upper

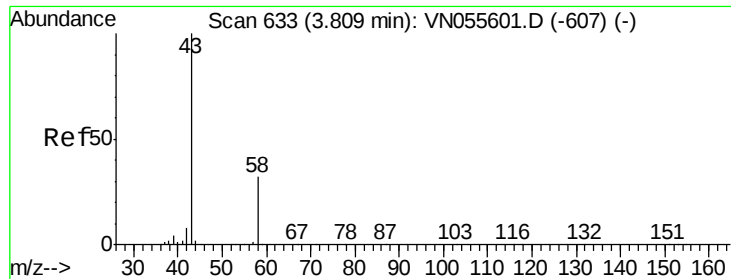
59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN055691.D (-838) (-)





#16

Acetone

Concen: 3.685 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN055691.D

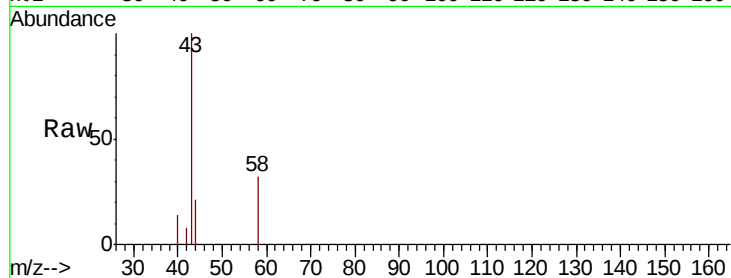
Acq: 21 May 2019 00:20

Tot Ion: 43 Resp: 7536

Ion Ratio Lower Upper

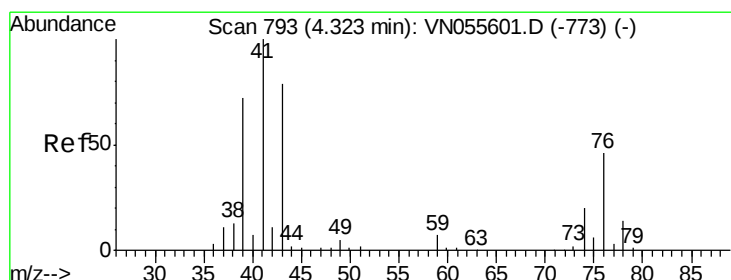
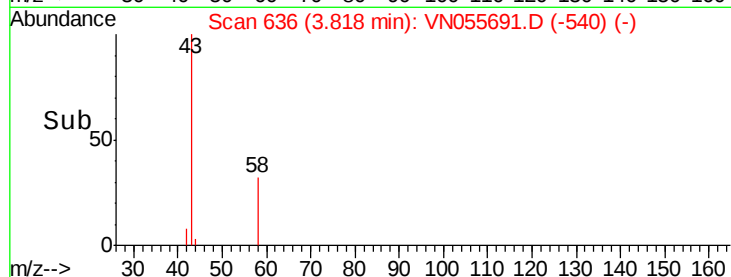
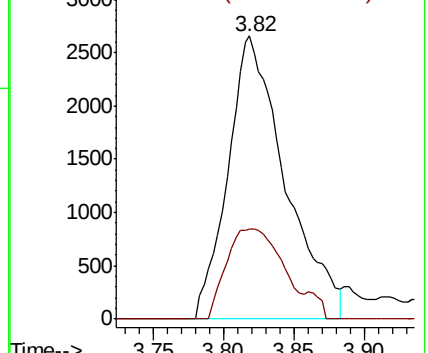
43 100

58 31.7 26.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.499 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.01 min

Lab File: VN055691.D

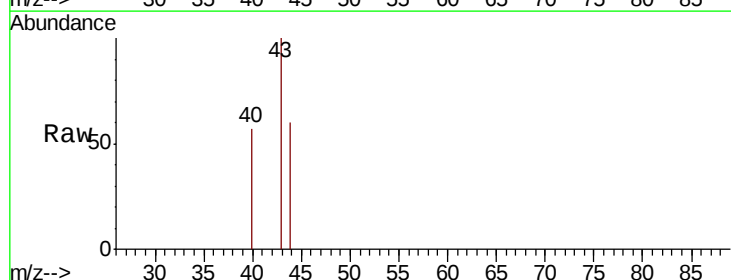
Acq: 21 May 2019 00:20

Tgt Ion: 43 Resp: 2188

Ion Ratio Lower Upper

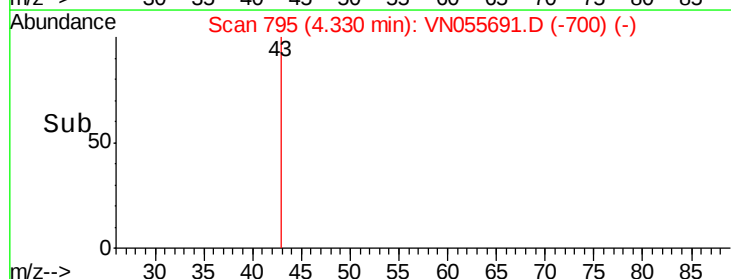
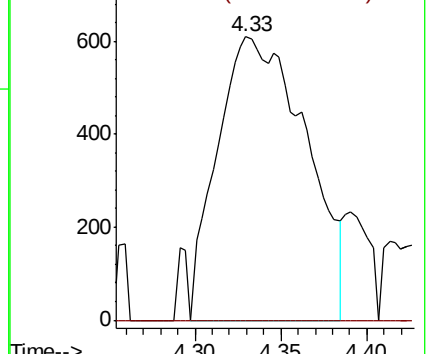
43 100

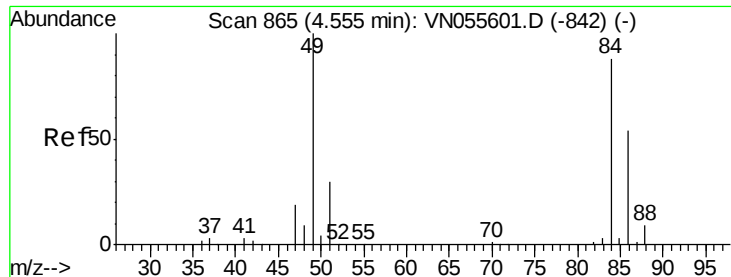
74 0.0 19.9 29.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

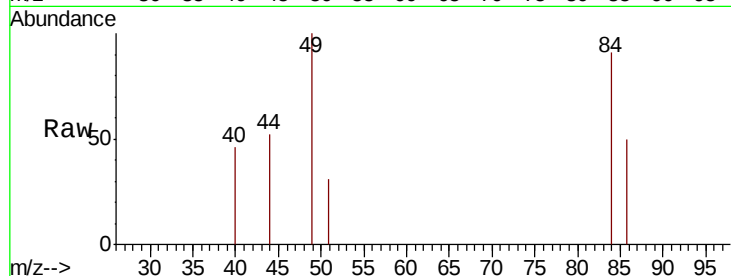
Ion 74.00 (73.70 to 74.70): VN0



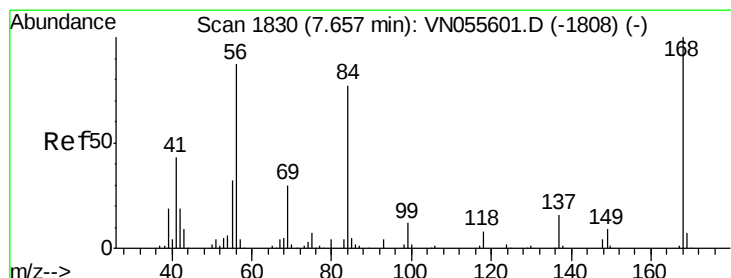
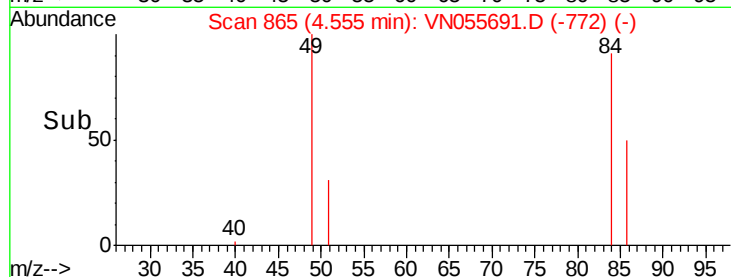
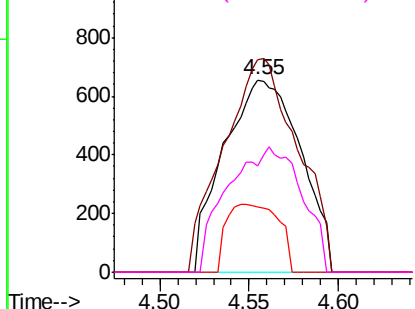


#20
Methylene Chloride
Concen: 0.423 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN055691.D
Acq: 21 May 2019 00:20

Tot Ion:	84	Resp:	1973
Ion	Ratio	Lower	Upper
84	100		
49	110.4	91.0	136.4
51	33.8	27.5	41.3
86	55.3	49.4	74.0

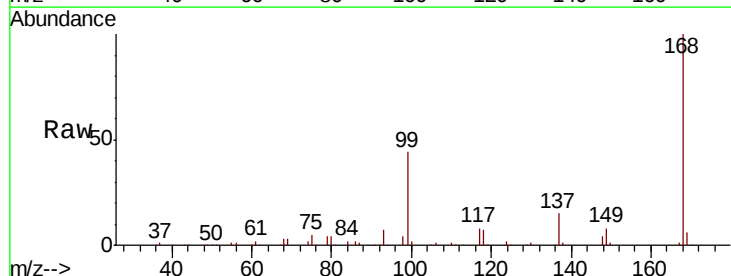


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

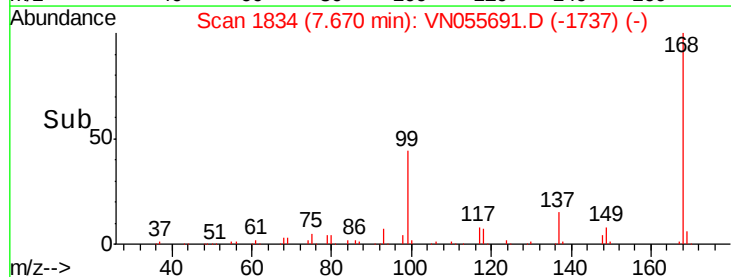
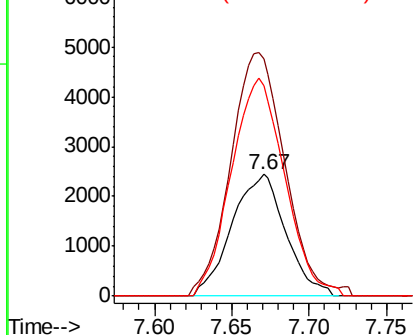


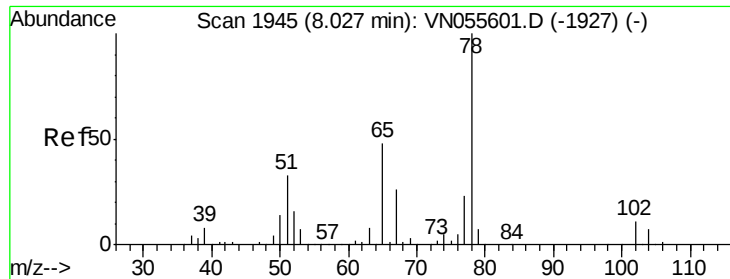
#31
Cyclohexane
Concen: 0.797 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. 0.01 min
Lab File: VN055691.D
Acq: 21 May 2019 00:20

Tgt Ion:	56	Resp:	5925
Ion	Ratio	Lower	Upper
56	100		
69	194.3	27.2	40.8#
84	173.0	71.3	106.9#



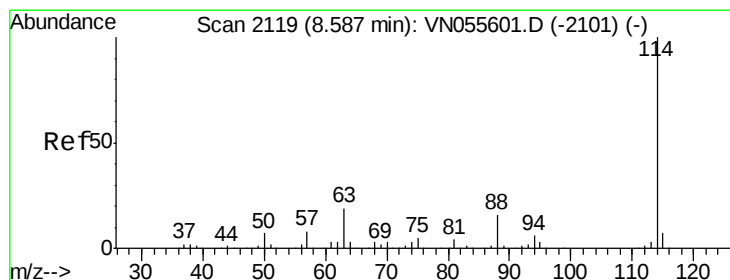
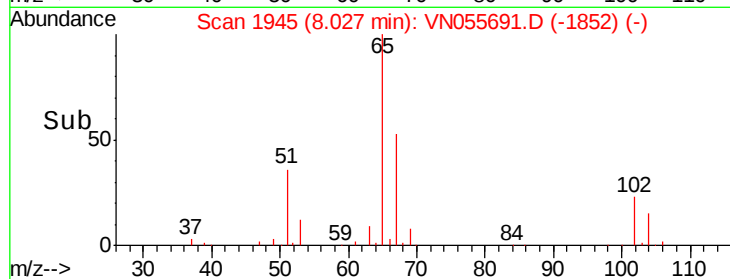
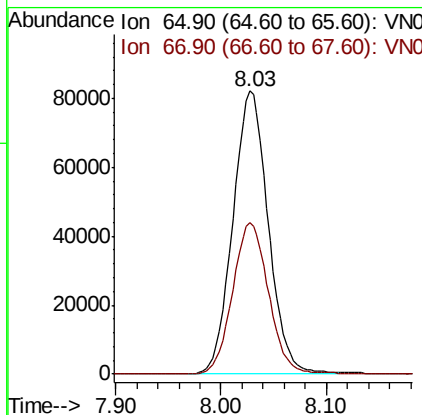
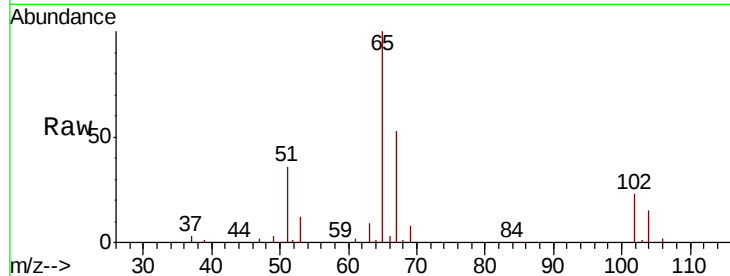
Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0





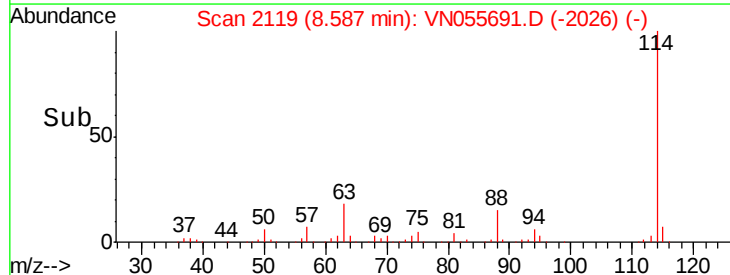
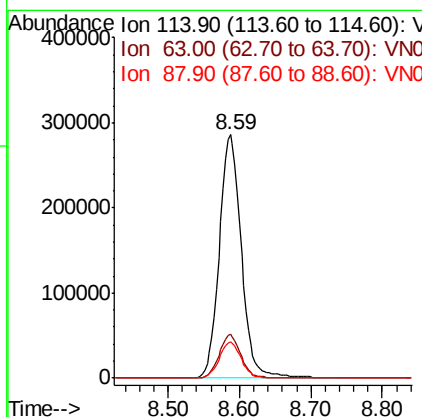
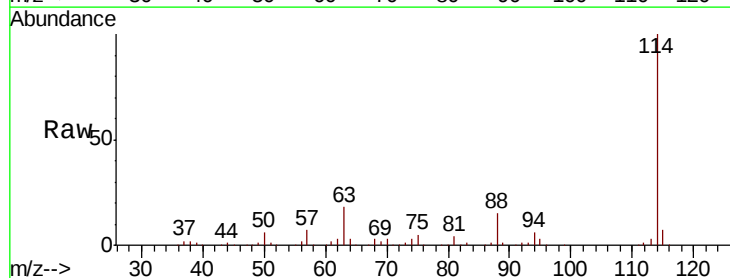
#33
 1,2-Dichloroethane-d4
 Concen: 38.128 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055691.D
 Acq: 21 May 2019 00:20

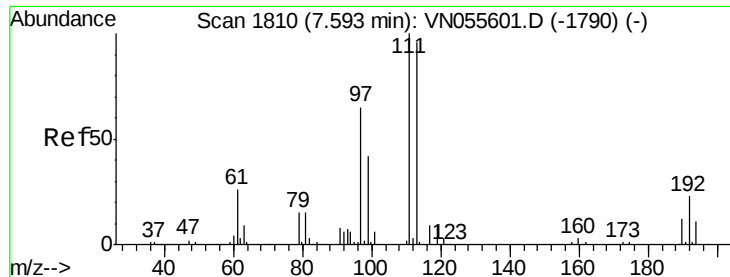
Tot Ion: 65 Resp: 191093
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 108.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055691.D
 Acq: 21 May 2019 00:20

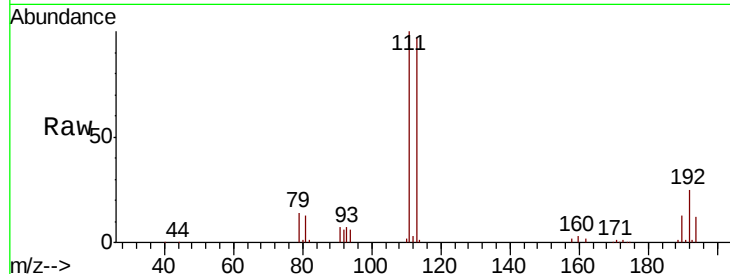
Tgt Ion: 114 Resp: 611866
 Ion Ratio Lower Upper
 114 100
 63 17.8 0.0 38.2
 88 14.9 0.0 31.0





#35
 Dibromofluoromethane
 Concen: 47.638 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN055691.D
 Acq: 21 May 2019 00:20

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.5	123.7
192	25.1	18.7	28.1

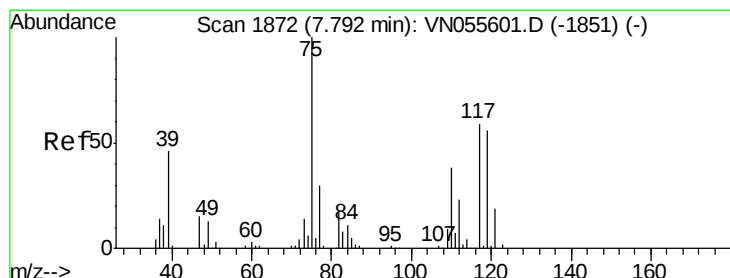
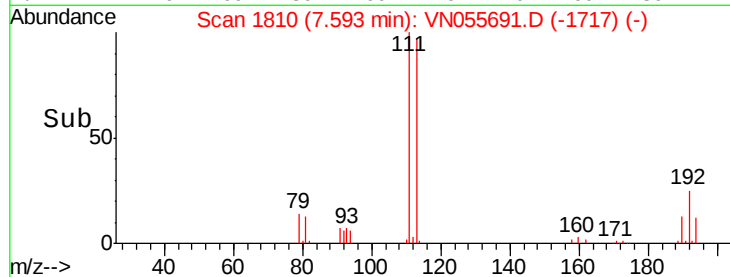
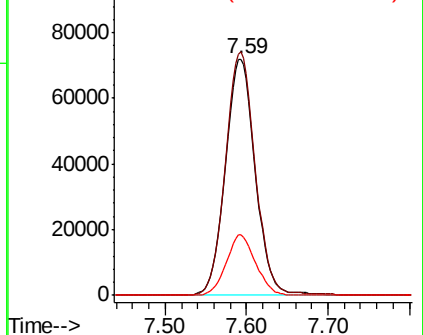


Abundance

Ion 112.80 (112.50 to 113.50): V

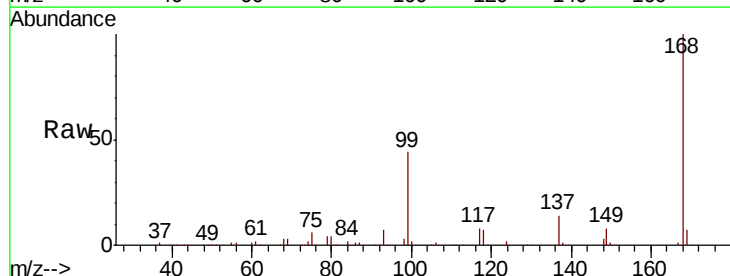
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 4.549 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN055691.D
 Acq: 21 May 2019 00:20

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.1	18.6	55.6#
77	0.0	24.9	37.3#

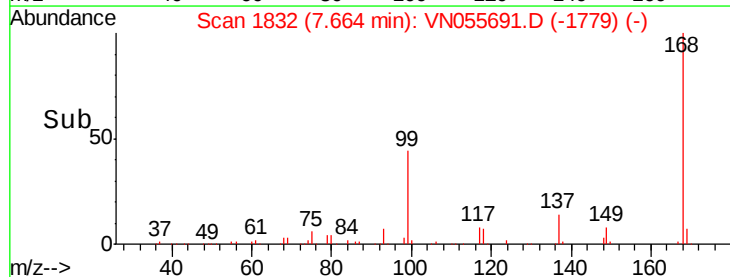
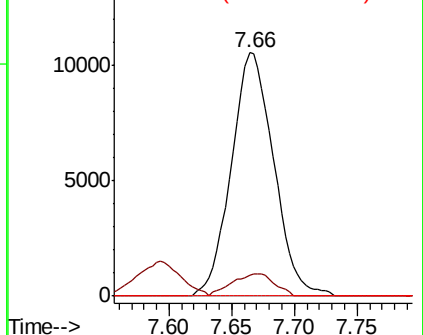


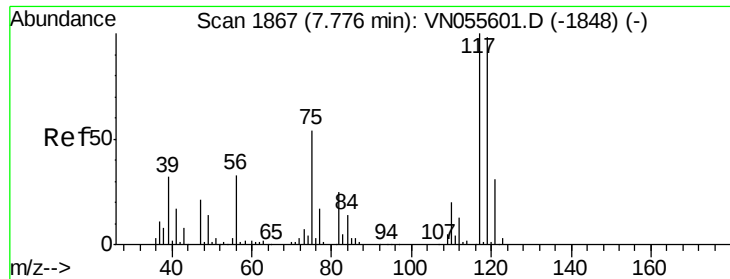
Abundance

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: 6.176 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN055691.D

Acq: 21 May 2019 00:20

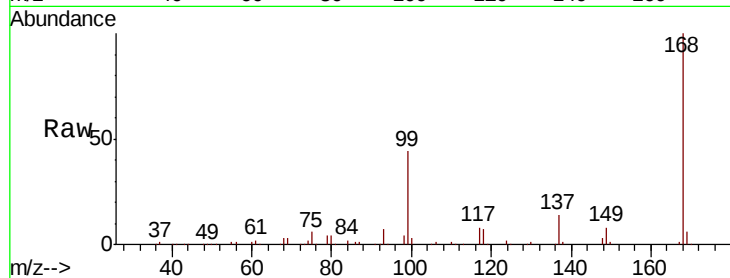
Tot Ion: 117 Resp: 36001

Ion Ratio Lower Upper

117 100

119 5.1 77.8 116.8#

121 0.0 24.6 37.0#

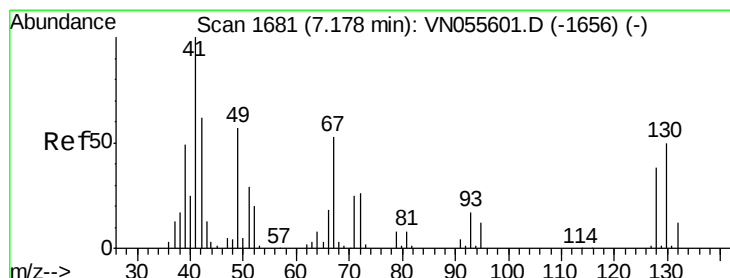
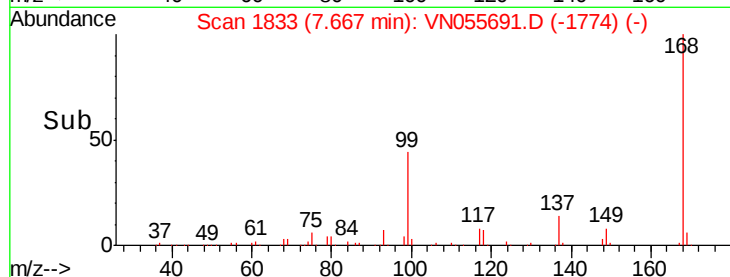
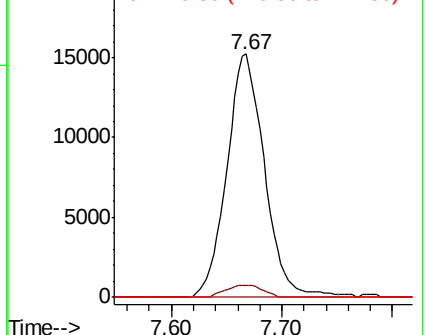


Abundance

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



#41

Methacrylonitrile

Concen: 0.264 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.05 min

Lab File: VN055691.D

Acq: 21 May 2019 00:20

Tgt Ion: 41 Resp: 555

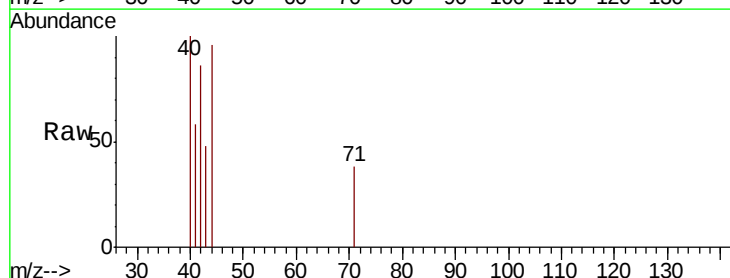
Ion Ratio Lower Upper

41 100

39 16.9 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0



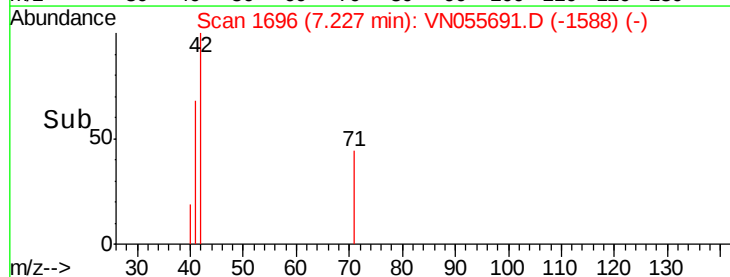
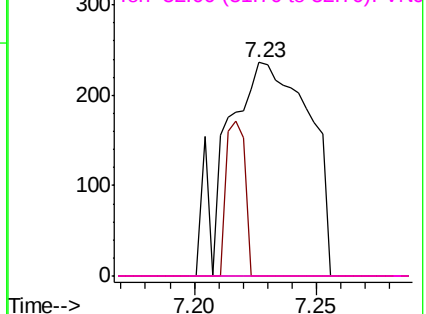
Abundance

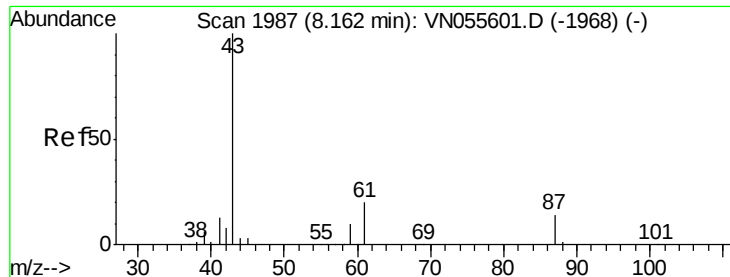
Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 0.926 ug/l

RT: 8.23 min Scan# 2008

Delta R.T. 0.07 min

Lab File: VN055691.D

Acq: 21 May 2019 00:20

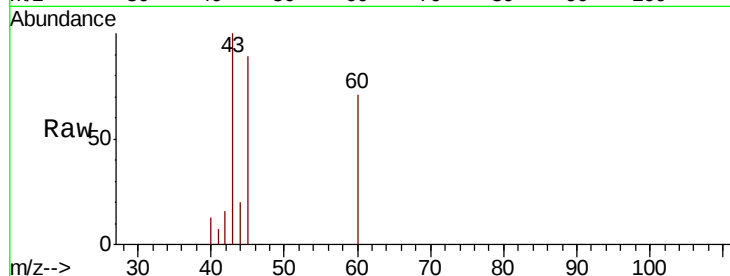
Tot Ion: 43 Resp: 7928

Ion Ratio Lower Upper

43 100

61 0.0 22.1 33.1#

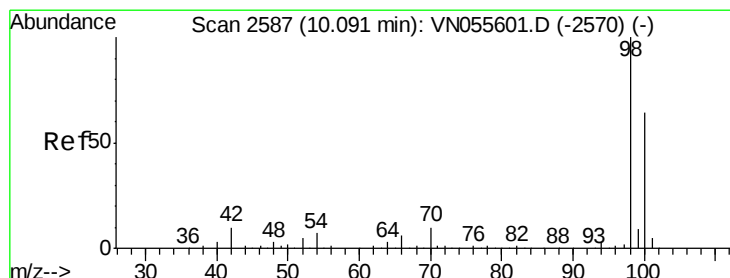
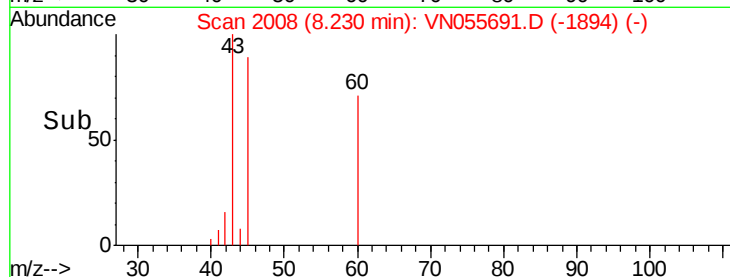
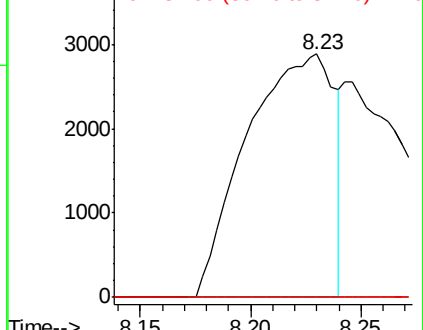
87 0.0 11.8 17.6#



Abundance Ion 43.00 (42.70 to 43.70): VN055691.D (-2008) (-)

Ion 61.00 (60.70 to 61.70): VN055691.D (-2008) (-)

Ion 87.00 (86.70 to 87.70): VN055691.D (-2008) (-)



#50

Toluene-d8

Concen: 47.596 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055691.D

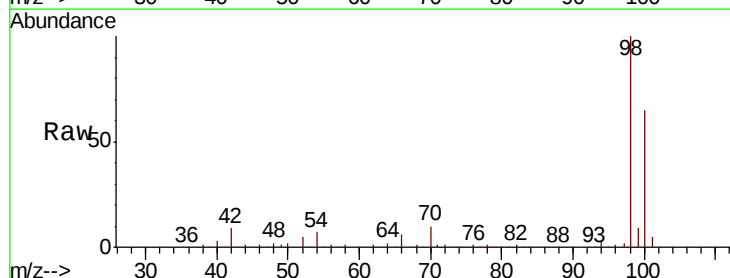
Acq: 21 May 2019 00:20

Tgt Ion: 98 Resp: 699502

Ion Ratio Lower Upper

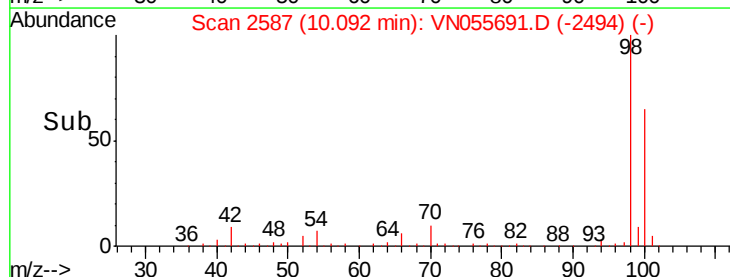
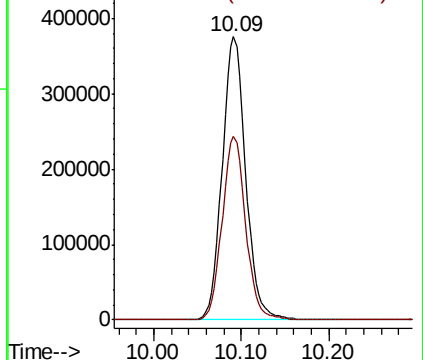
98 100

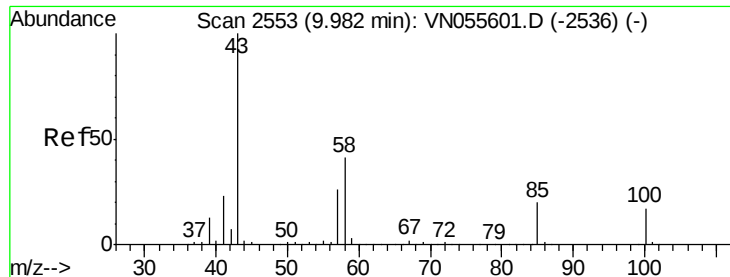
100 65.1 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055691.D (-2587) (-)

Ion 100.00 (99.70 to 100.70): VN055691.D (-2587) (-)





#51

4-Methyl-2-Pentanone

Concen: 0.250 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN055691.D

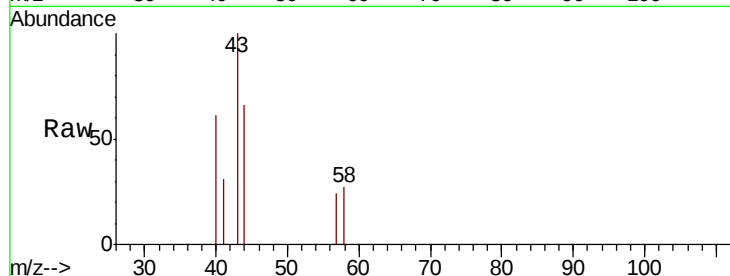
Acq: 21 May 2019 00:20

Tot Ion: 43 Resp: 1257

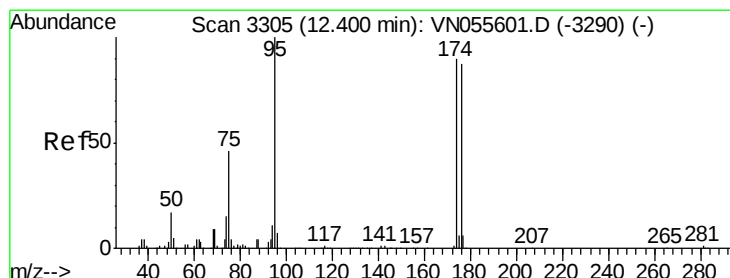
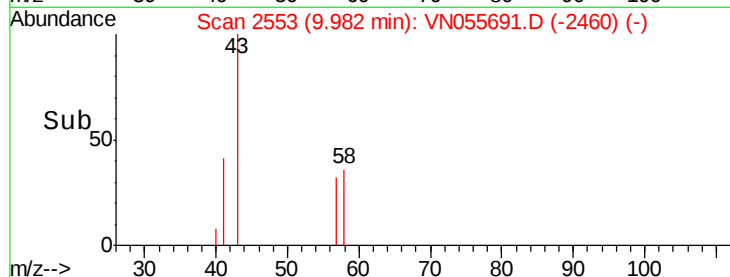
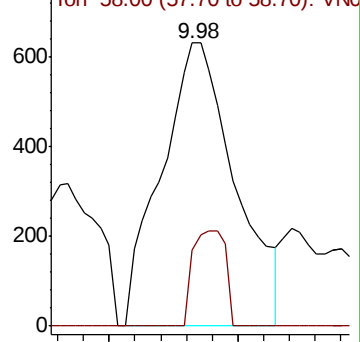
Ion Ratio Lower Upper

43 100

58 15.0 32.7 49.1#



Abundance Ion 43.00 (42.70 to 43.70): VN055601.D (-2536) (-)



#62

4-Bromofluorobenzene

Concen: 41.991 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055691.D

Acq: 21 May 2019 00:20

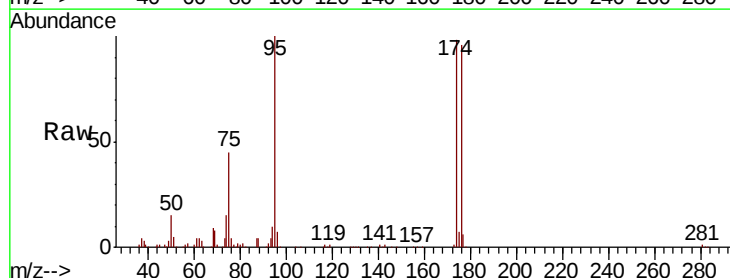
Tgt Ion: 95 Resp: 213106

Ion Ratio Lower Upper

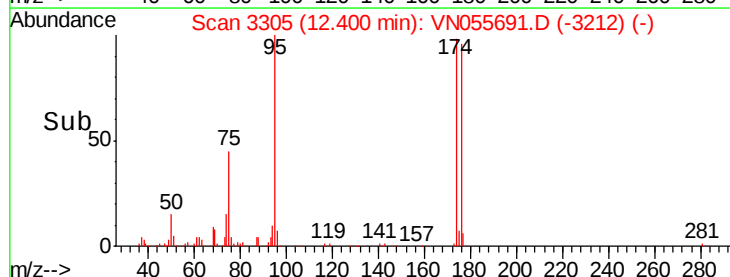
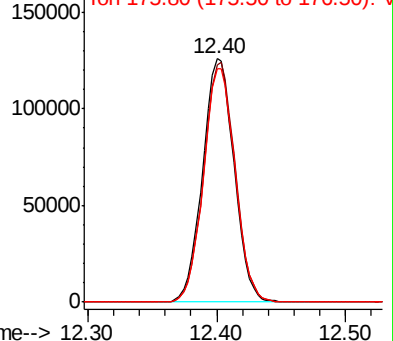
95 100

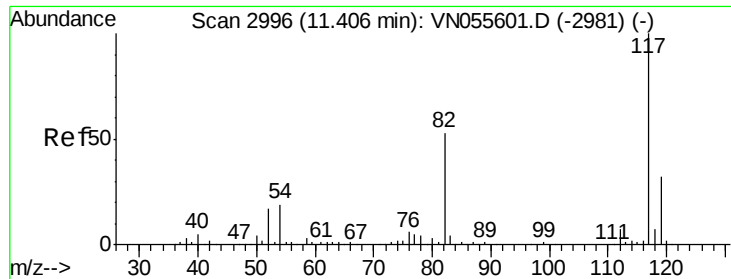
174 98.4 0.0 180.6

176 96.5 0.0 177.4



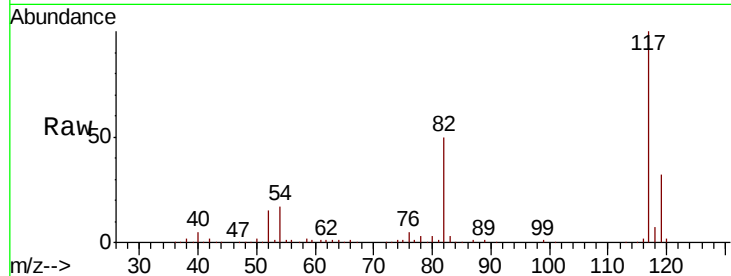
Abundance Ion 94.90 (94.60 to 95.60): VN055601.D (-3290) (-)



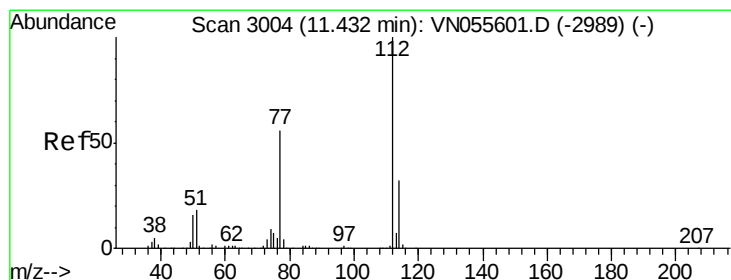
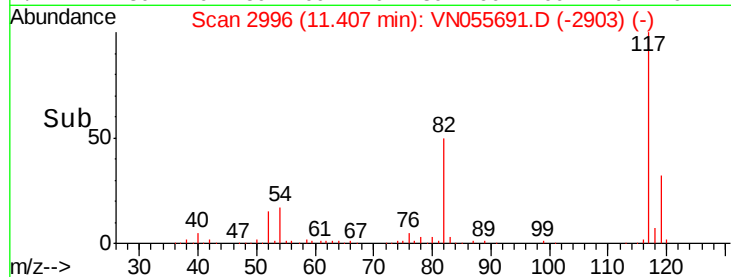
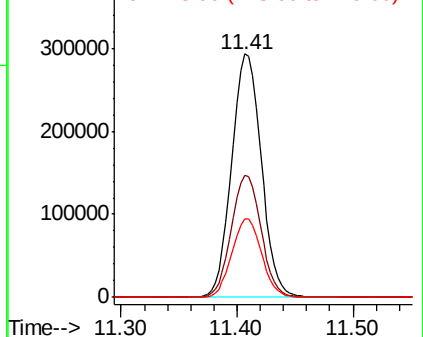


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055691.D
Acq: 21 May 2019 00:20

Tot Ion	Ratio	Lower	Upper
117	100		
82	50.1	42.3	63.5
119	32.2	25.4	38.2

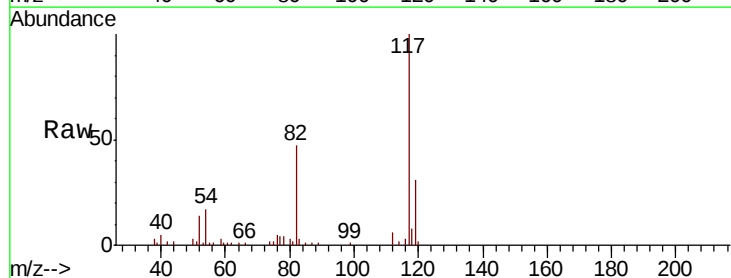


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

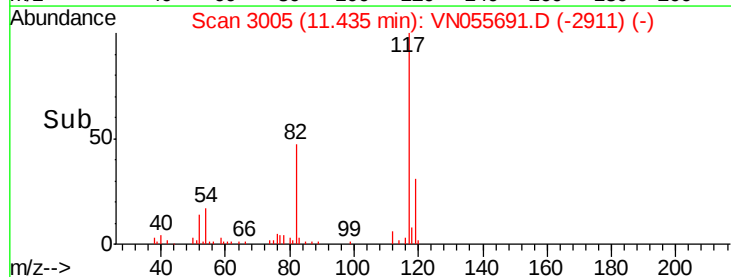
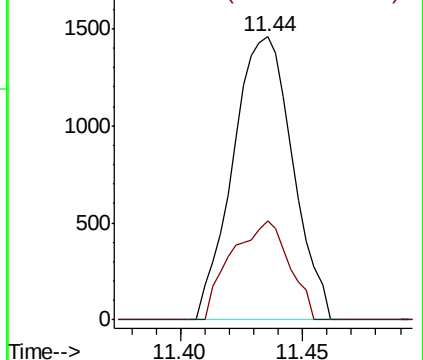


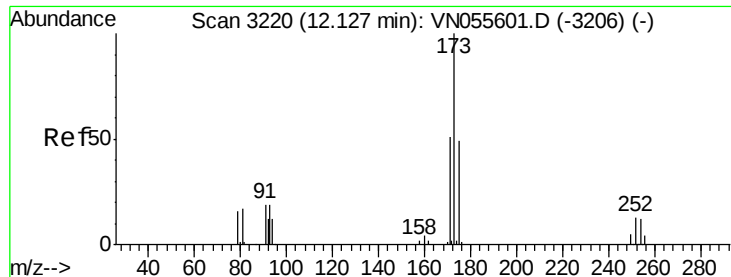
#65
Chlorobenzene
Concen: 0.236 ug/l
RT: 11.44 min Scan# 3005
Delta R.T. 0.00 min
Lab File: VN055691.D
Acq: 21 May 2019 00:20

Tgt Ion	Ratio	Lower	Upper
112	100		
114	34.9	25.6	38.4



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#71

Bromoform

Concen: 0.387 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN055691.D

Acq: 21 May 2019 00:20

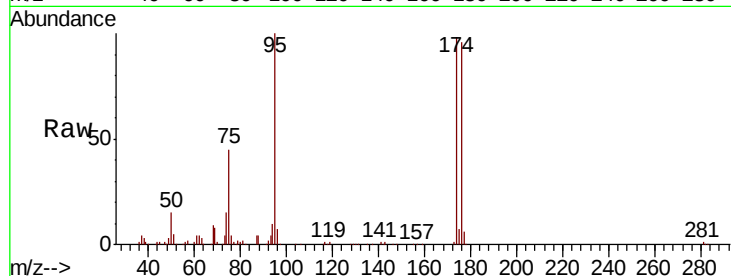
Tot Ion:173 Resp: 1385

Ion Ratio Lower Upper

173 100

175 981.2 24.3 72.9#

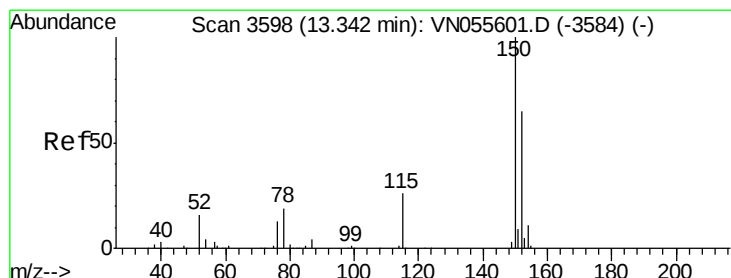
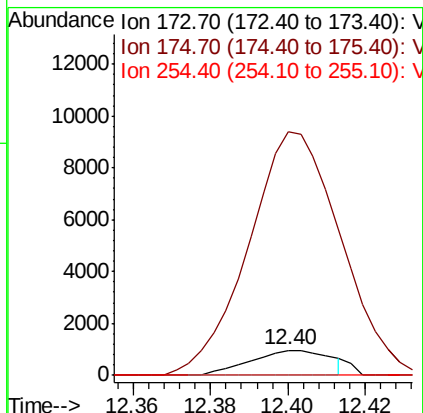
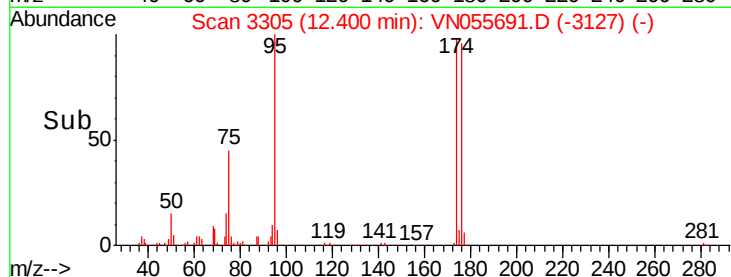
254 0.0 0.1 0.1#



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: VN055691.D

Acq: 21 May 2019 00:20

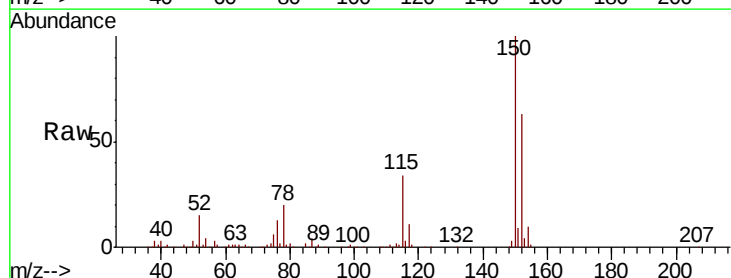
Tgt Ion:152 Resp: 180996

Ion Ratio Lower Upper

152 100

115 52.0 28.1 84.2

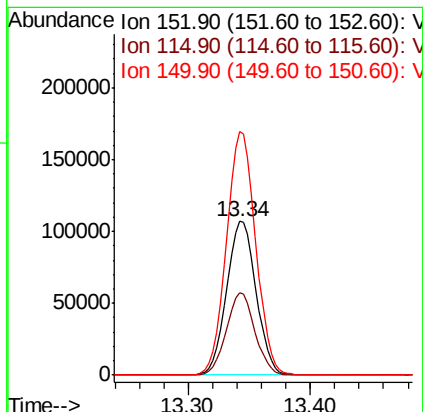
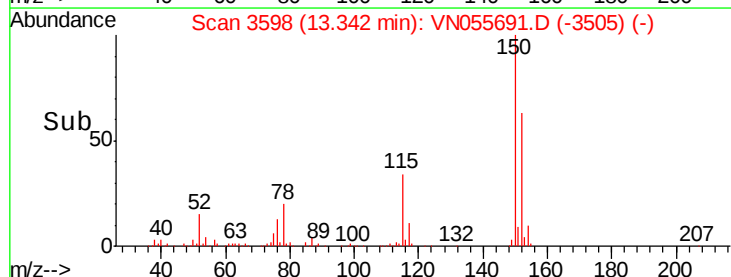
150 156.8 0.0 348.0

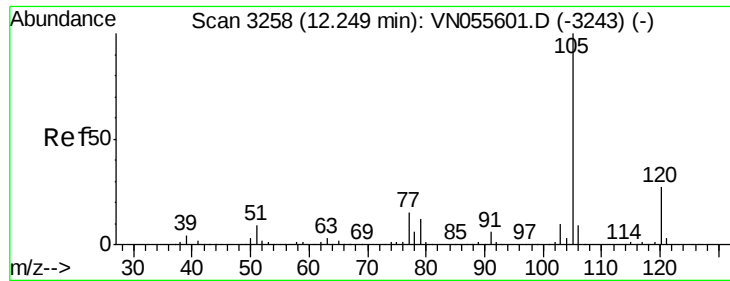


Abundance Ion 151.90 (151.60 to 152.60): V

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# 3259

Delta R.T. 0.00 min

Lab File: VN055691.D

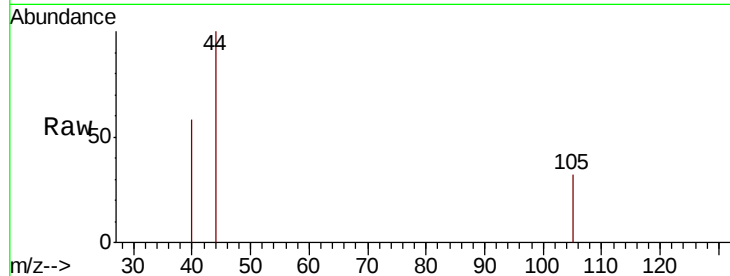
Acq: 21 May 2019 00:20

Tot Ion: 105 Resp: 30

Ion Ratio Lower Upper

105 100

120 0.0 13.4 40.2#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

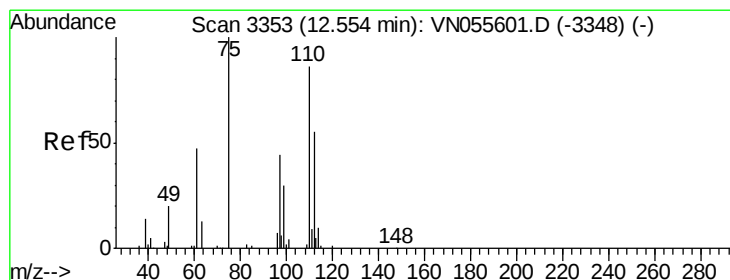
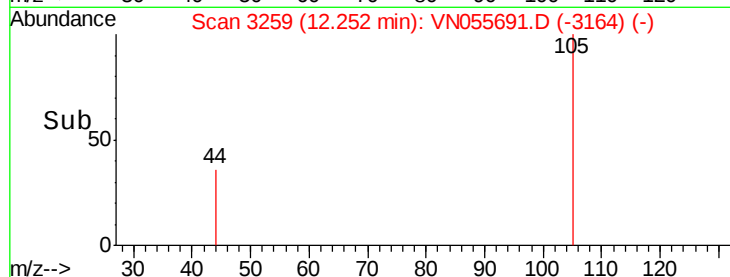
150

100

50

0

Time--> 12.24 12.25 12.26



#76

1,2,3-Trichloropropane

Concen: 25.995 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055691.D

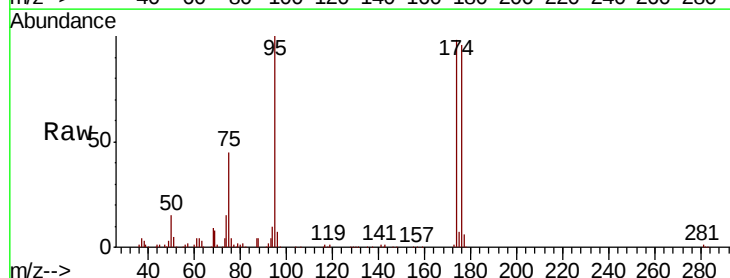
Acq: 21 May 2019 00:20

Tgt Ion: 75 Resp: 96006

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

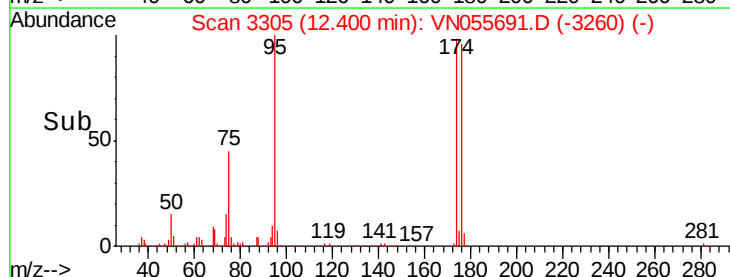
60000

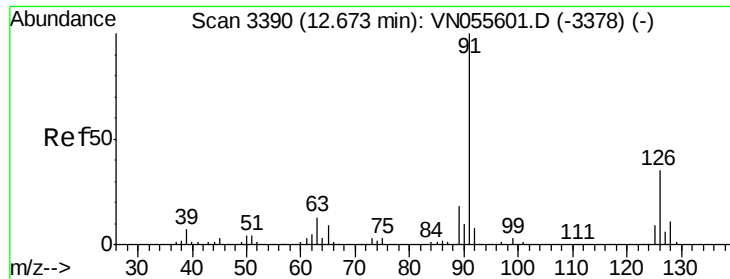
40000

20000

0

Time--> 12.35 12.40 12.45





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.59 min Scan# 3364

Delta R.T. -0.08 min

Lab File: VN055691.D

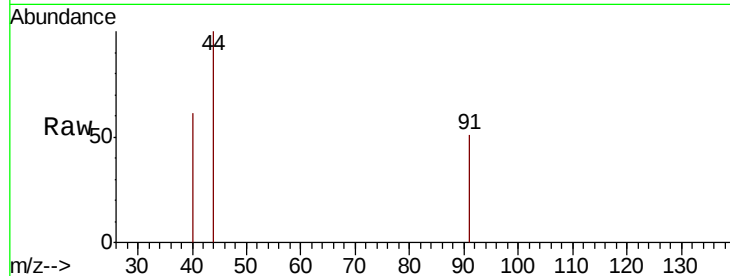
Acq: 21 May 2019 00:20

Tot Ion: 91 Resp: 294

Ion Ratio Lower Upper

91 100

126 0.0 17.8 53.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

12.59

250

200

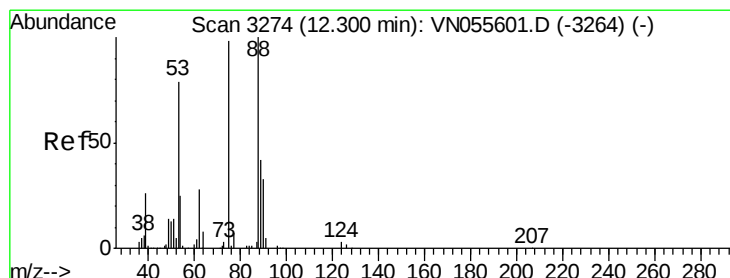
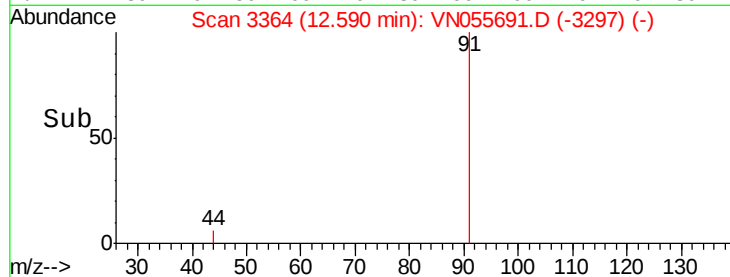
150

100

50

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 66.822 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055691.D

Acq: 21 May 2019 00:20

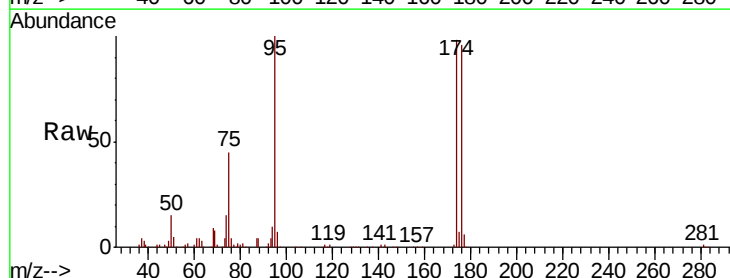
Tgt Ion: 75 Resp: 96006

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

12.40

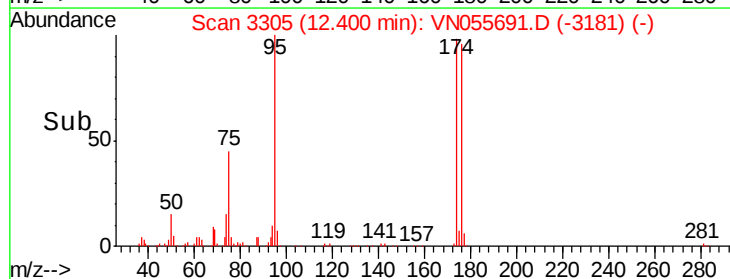
60000

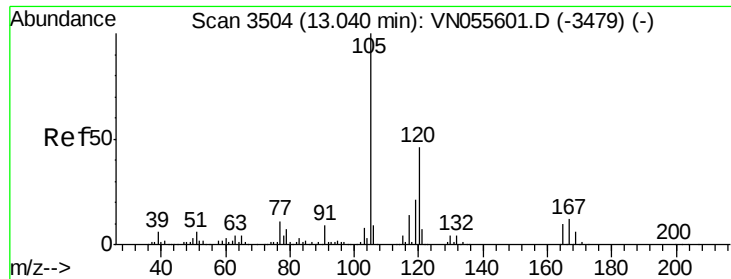
40000

20000

0

Time-->

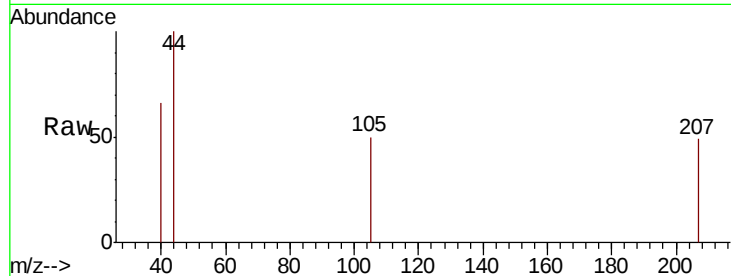




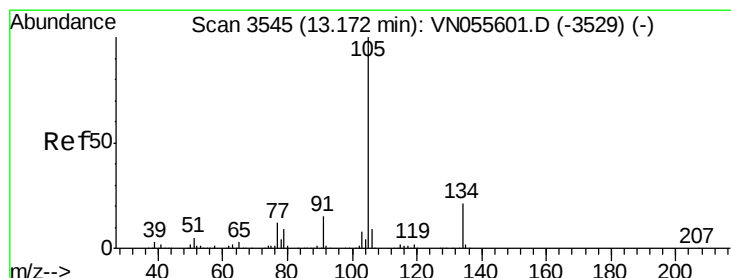
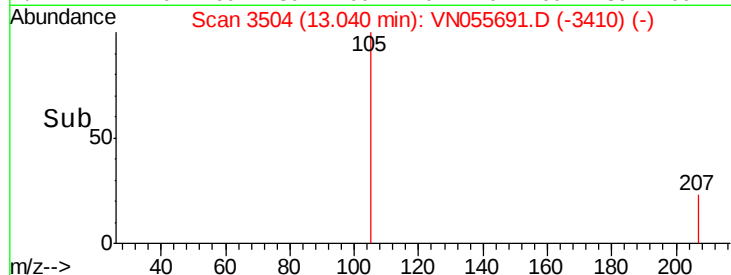
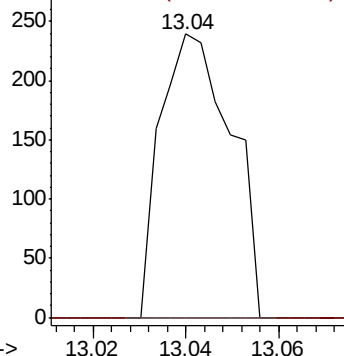
#84

1,2,4-Trimethylbenzene
Concen: Below Cal
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN055691.D
Acq: 21 May 2019 00:20

Tot Ion:105 Resp: 253
Ion Ratio Lower Upper
105 100
120 0.0 23.1 69.2#



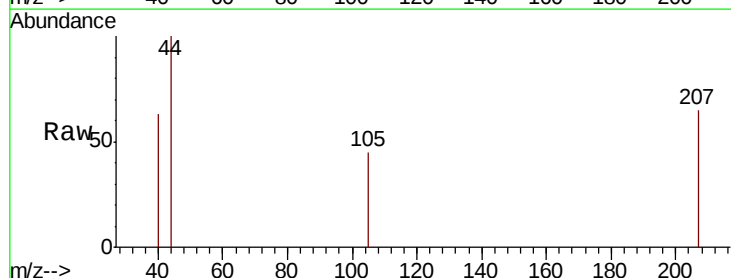
Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V



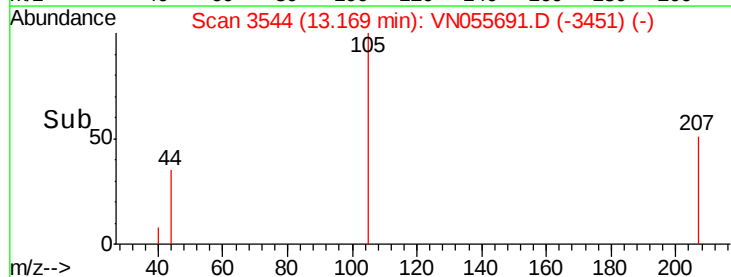
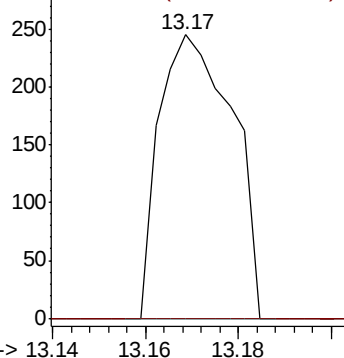
#85

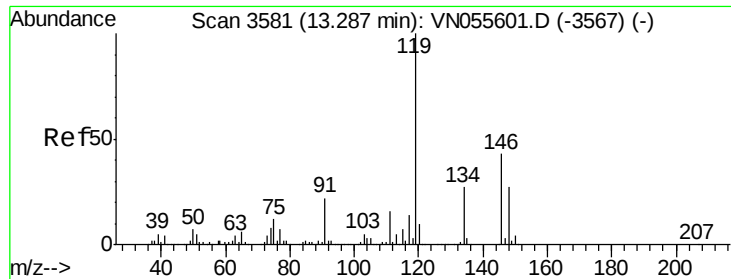
sec-Butylbenzene
Concen: Below Cal
RT: 13.17 min Scan# 3544
Delta R.T. -0.00 min
Lab File: VN055691.D
Acq: 21 May 2019 00:20

Tgt Ion:105 Resp: 270
Ion Ratio Lower Upper
105 100
134 0.0 10.3 30.9#



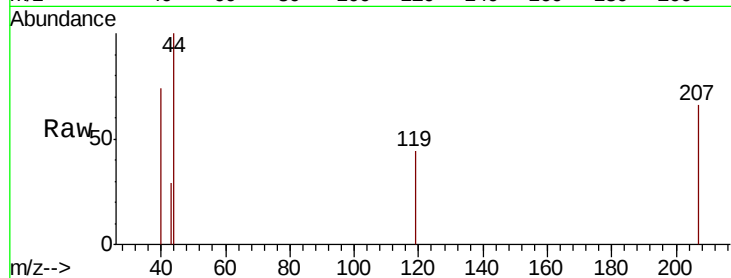
Abundance Ion 105.00 (104.70 to 105.70): V
Ion 134.00 (133.70 to 134.70): V



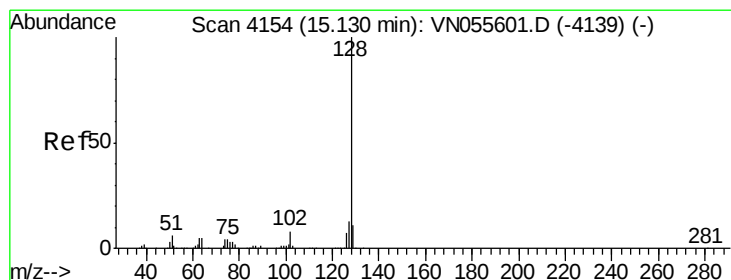
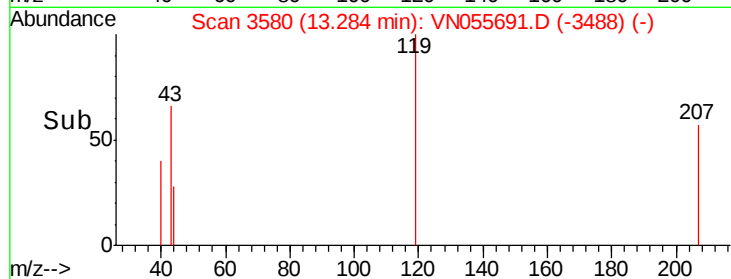
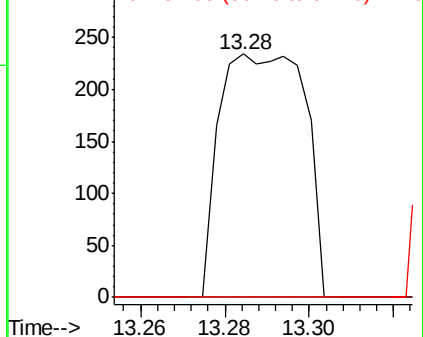


#86
 p-Isopropyltoluene
 Concen: Below Cal
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.00 min
 Lab File: VN055691.D
 Acq: 21 May 2019 00:20

Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	13.4	40.2#
91	0.0	11.0	33.0#

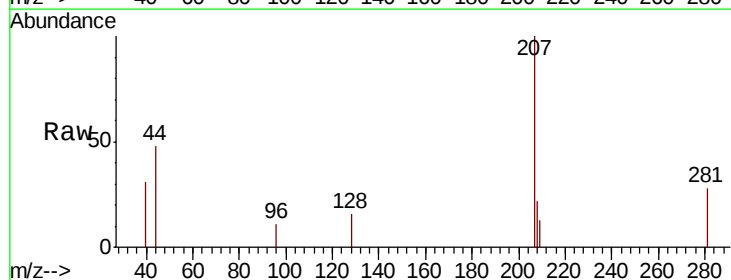


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 134.00 (133.70 to 134.70): V
 Ion 91.00 (90.70 to 91.70): V



#95
 Naphthalene
 Concen: 1.804 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. 0.00 min
 Lab File: VN055691.D
 Acq: 21 May 2019 00:20

Tgt 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

