

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120518\
 Data File : VN052685.D
 Acq On : 5 Dec 2018 19:07
 Operator : MD\SY
 Sample : J6194-04RE
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 OK-02-120418-BRE

Quant Time: Dec 06 04:30:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 03 03:24:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1162989	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1804605	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1572676	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	594790	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	620123	48.97	ug/l	0.00
Spiked Amount			Recovery	=	97.94%	
35) Dibromofluoromethane	7.59	113	312486	28.09	ug/l	0.00
Spiked Amount			Recovery	=	56.18%	
50) Toluene-d8	10.09	98	2189143	50.55	ug/l	0.00
Spiked Amount			Recovery	=	101.10%	
62) 4-Bromofluorobenzene	12.40	95	685433	47.10	ug/l	0.00
Spiked Amount			Recovery	=	94.20%	

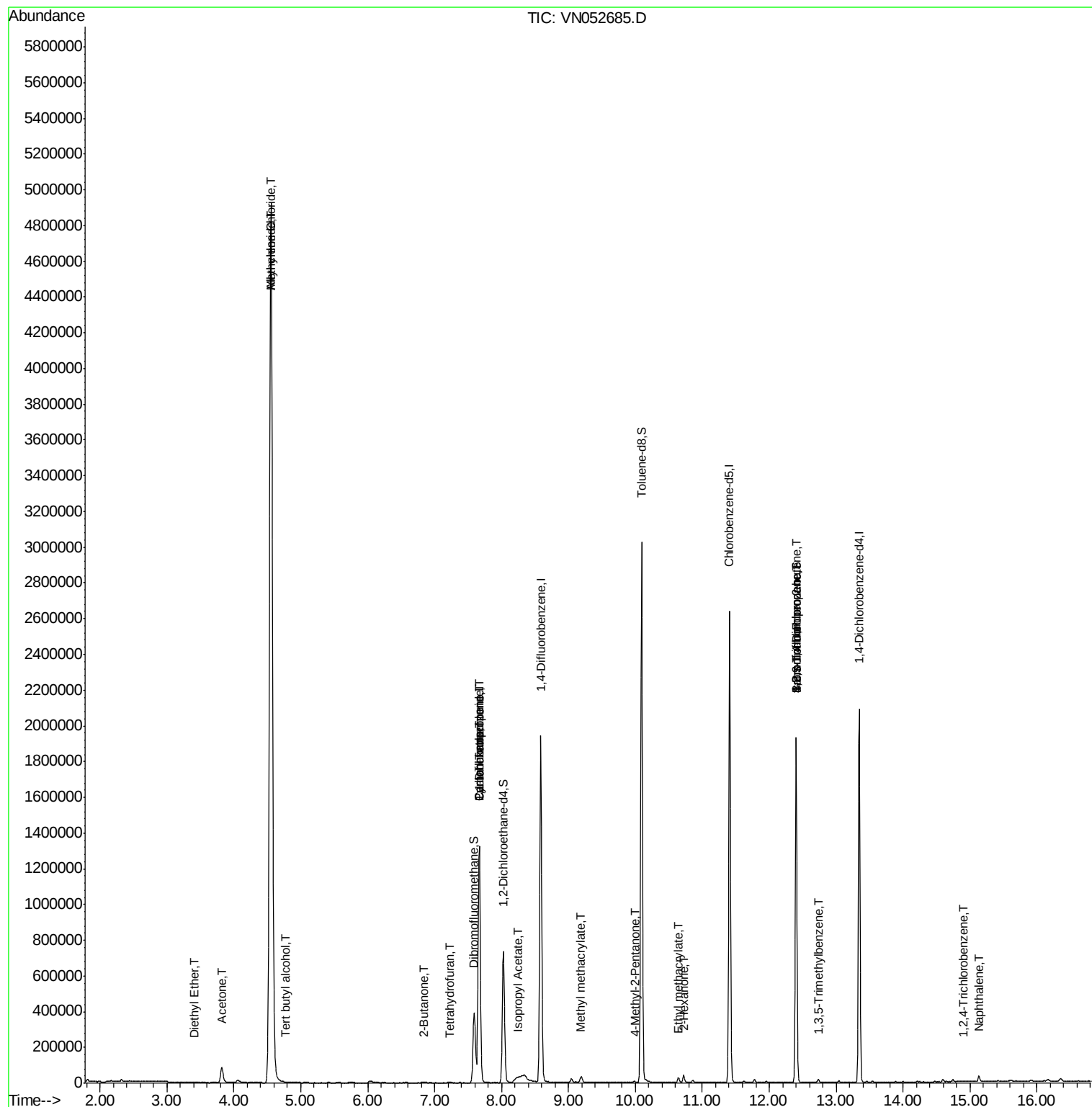
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.42	74	1696	0.253	ug/l	66
11) Tert butyl alcohol	4.79	59	381	0.601	ug/l #	73
14) Allyl chloride	4.55	41	141988	7.562	ug/l #	27
16) Acetone	3.82	43	151194	45.268	ug/l	100
20) Methylene Chloride	4.55	84	3856408	295.055	ug/l	99
25) 2-Butanone	6.84	43	4943	1.044	ug/l #	90
29) Tetrahydrofuran	7.23	42	1874	0.614	ug/l #	39
31) Cyclohexane	7.66	56	20481	0.579	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	78655	4.616	ug/l #	50
38) Carbon Tetrachloride	7.67	117	101920	6.607	ug/l #	16
43) Isopropyl Acetate	8.25	43	38324	2.177	ug/l #	51
48) Methyl methacrylate	9.18	41	17412	1.897	ug/l #	23
51) 4-Methyl-2-Pentanone	9.99	43	6238	0.632	ug/l	99
56) Ethyl methacrylate	10.65	69	278	2.711	ug/l #	1
59) 2-Hexanone	10.72	43	34634	5.226	ug/l #	24
71) Bromoform	12.40	173	4216	0.565	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	329007	35.871	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7491	0.201	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	329007	119.792	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	96	2.838	ug/l #	1
95) Naphthalene	15.13	128	27347	4.566	ug/l	98

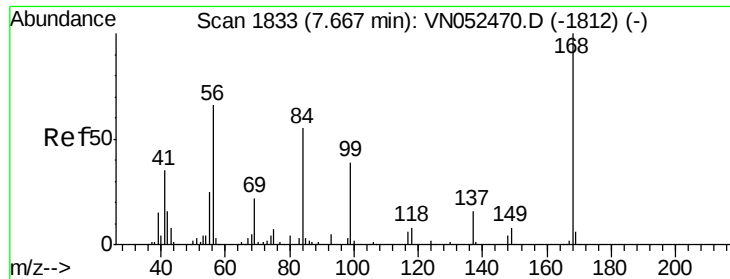
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN052685.D

Acq: 5 Dec 2018 19:07

Instrument :

MSVOA_N

ClientSampleId :

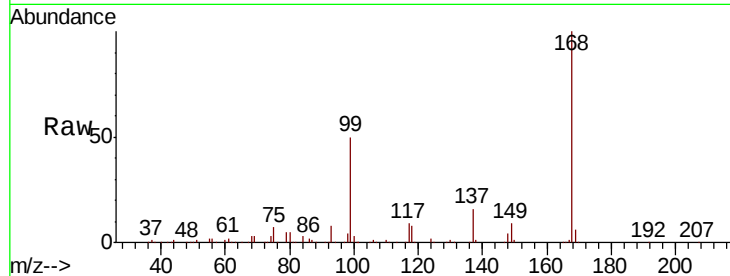
OK-02-120418-BRE

Tot Ion:168 Resp: 1162989

Ion Ratio Lower Upper

168 100

99 50.3 41.7 62.5



Abundance Ion 167.90 (167.60 to 168.60): VN052470.D

Ion 98.90 (98.60 to 99.60): VN052470.D

7.67

500000

400000

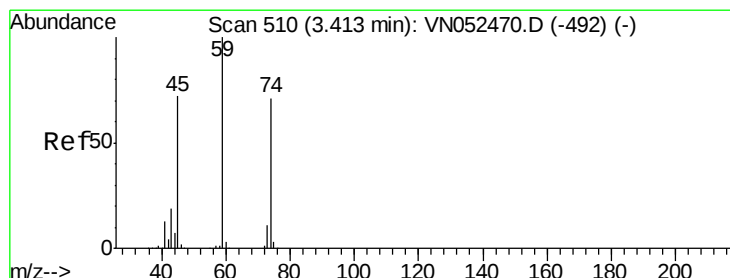
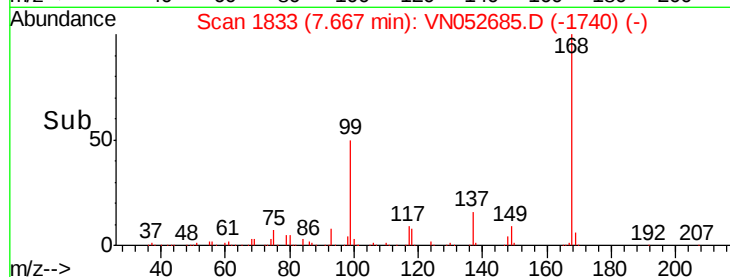
300000

200000

100000

0

Time-->



#8

Diethyl Ether

Concen: 0.253 ug/l

RT: 3.42 min Scan# 511

Delta R.T. 0.00 min

Lab File: VN052685.D

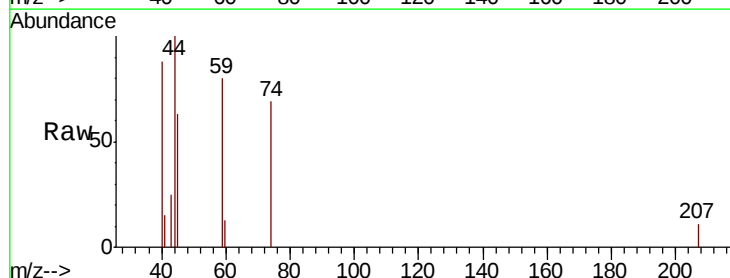
Acq: 5 Dec 2018 19:07

Tgt Ion: 74 Resp: 1696

Ion Ratio Lower Upper

74 100

45 135.1 50.4 151.3



Abundance Ion 74.00 (73.70 to 74.70): VN052470.D

Ion 45.00 (44.70 to 45.70): VN052470.D

3.42

1000

800

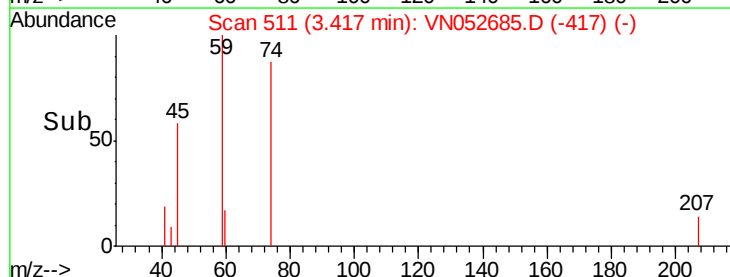
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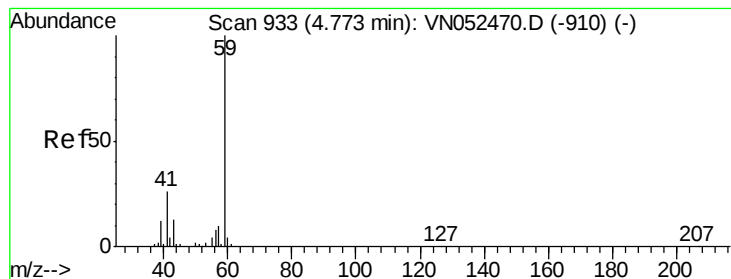
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200

0

Time-->



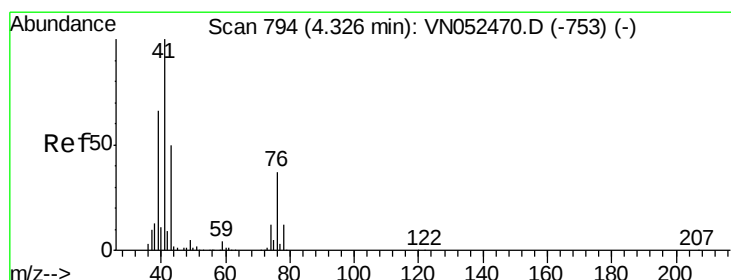
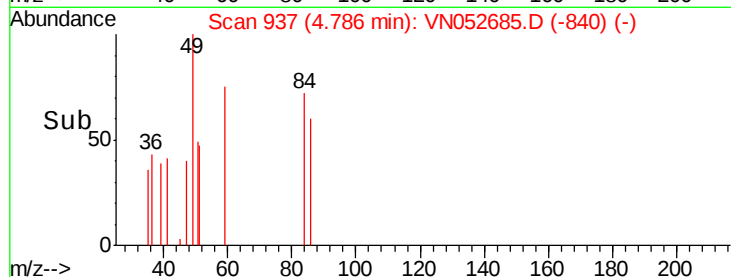
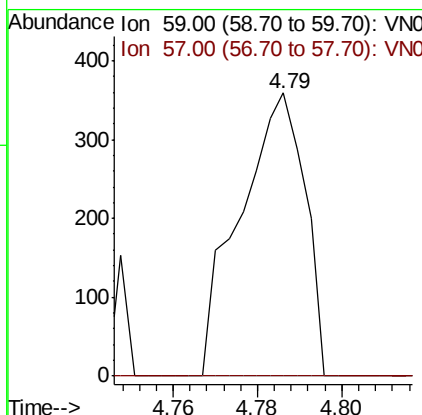
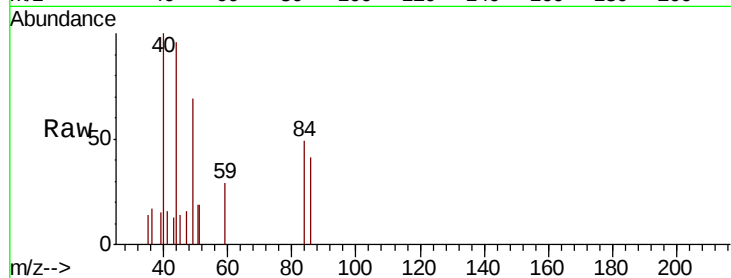


#11

Tert butyl alcohol
 Concen: 0.601 ug/l
 RT: 4.79 min Scan# 937
 Delta R.T. 0.01 min
 Lab File: VN052685.D
 Acq: 5 Dec 2018 19:07

Instrument :
 MSVOA_N
 ClientSampleId :
 OK-02-120418-BRE

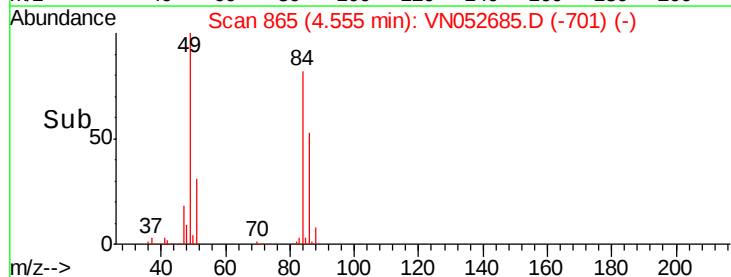
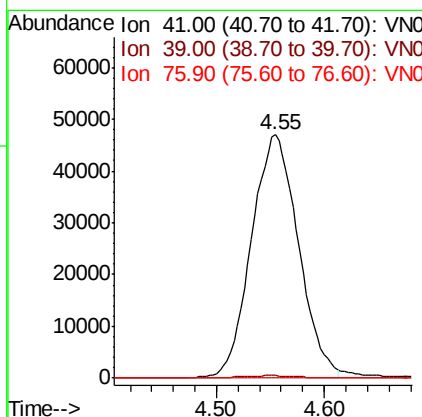
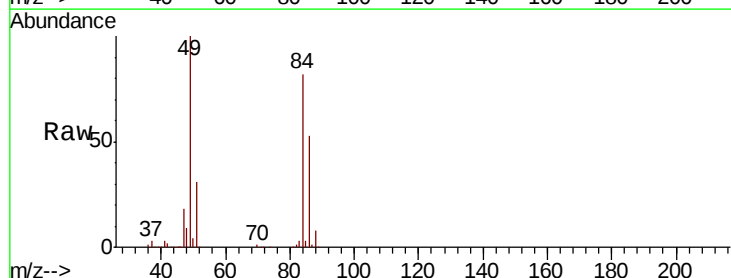
Tot Ion: 59 Resp: 381
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.9 11.9#

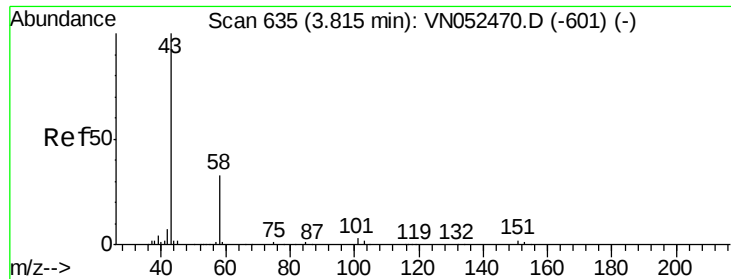


#14

Allyl chloride
 Concen: 7.562 ug/l
 RT: 4.55 min Scan# 865
 Delta R.T. 0.23 min
 Lab File: VN052685.D
 Acq: 5 Dec 2018 19:07

Tgt Ion: 41 Resp: 141988
 Ion Ratio Lower Upper
 41 100
 39 0.8 50.6 76.0#
 76 0.0 27.4 41.2#

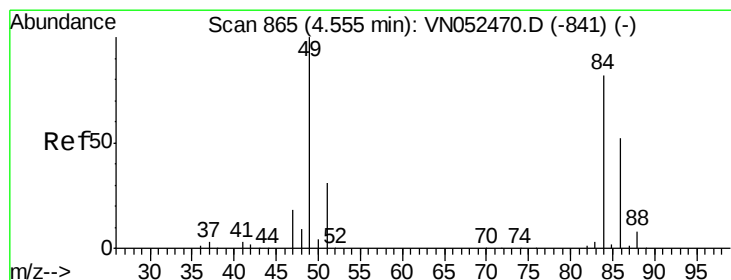
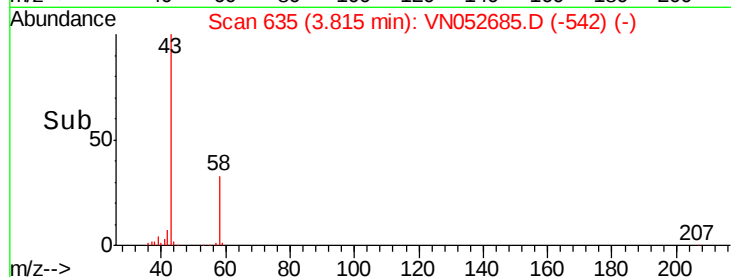
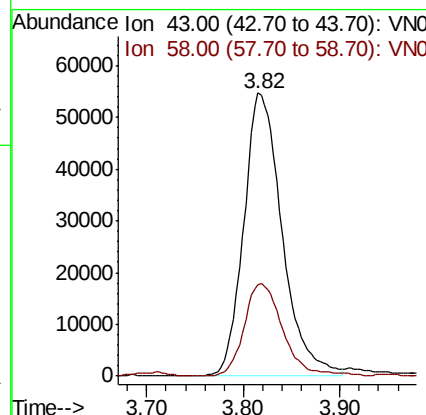
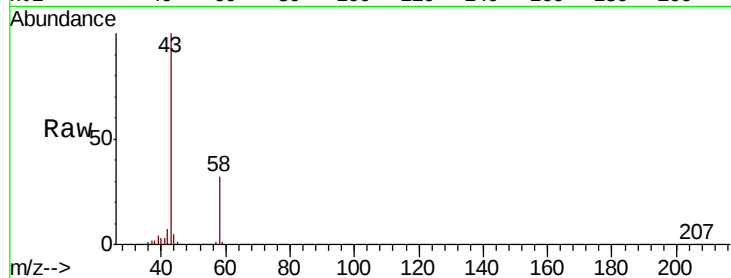




#16
Acetone
Concen: 45.268 ug/l
RT: 3.82 min Scan# 635
Delta R.T. 0.00 min
Lab File: VN052685.D
Acq: 5 Dec 2018 19:07

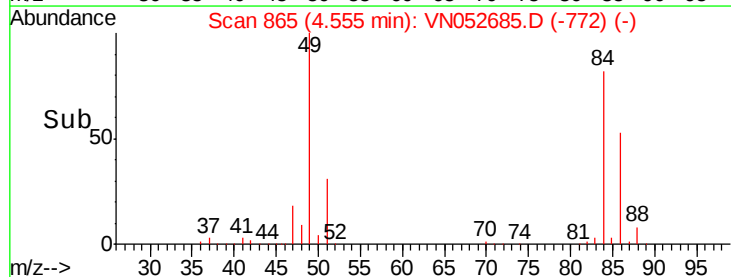
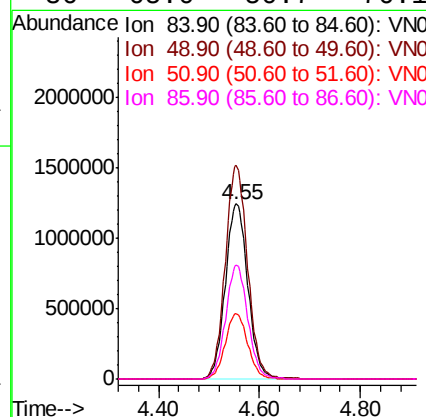
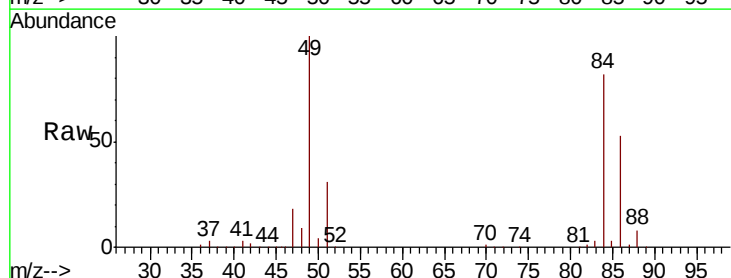
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MSVOA_N
ClientSampleId :
OK-02-120418-BRE

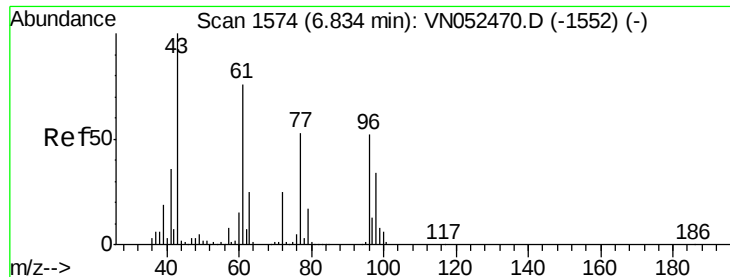
Tot Ion: 43 Resp: 151194
Ion Ratio Lower Upper
43 100
58 32.4 26.0 39.0



#20
Methylene Chloride
Concen: 295.055 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN052685.D
Acq: 5 Dec 2018 19:07

Tgt Ion: 84 Resp: 3856408
Ion Ratio Lower Upper
84 100
49 122.0 98.0 147.0
51 37.3 30.1 45.1
86 65.0 50.7 76.1

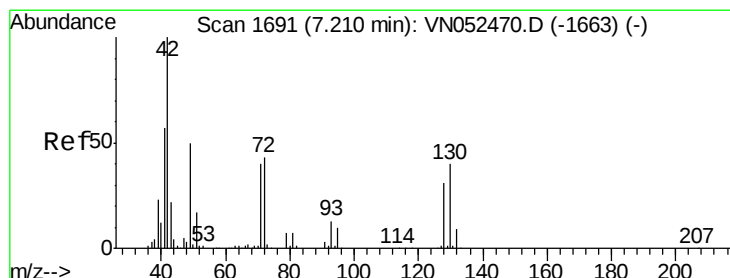
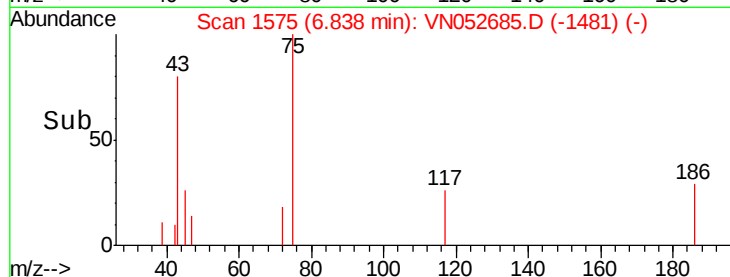
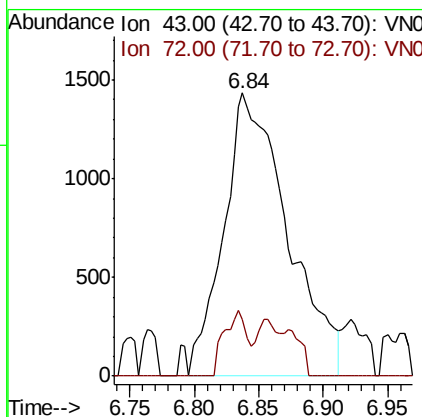
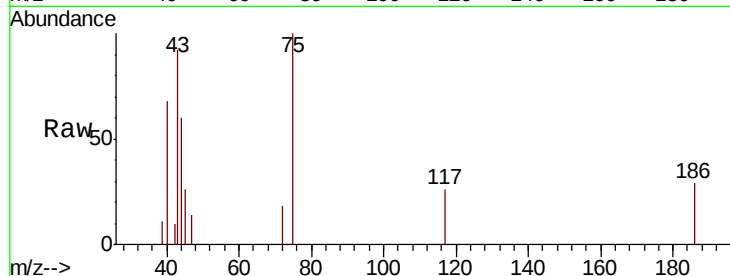




#25
2-Butanone
Concen: 1.044 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VN052685.D
Acq: 5 Dec 2018 19:07

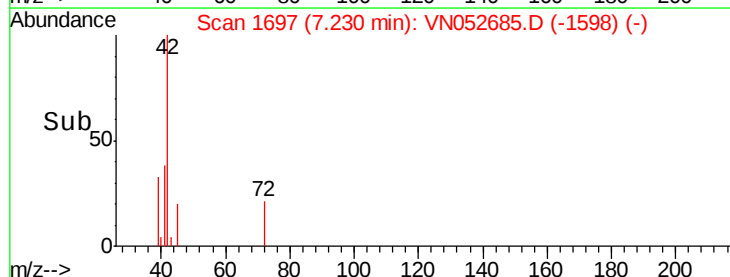
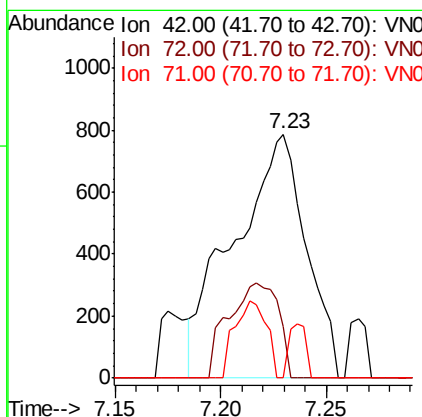
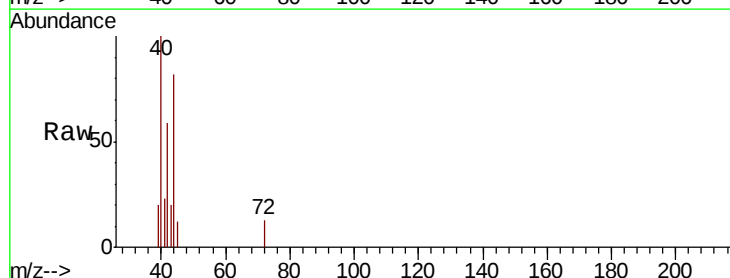
Instrument :
MSVOA_N
ClientSampleId :
OK-02-120418-BRE

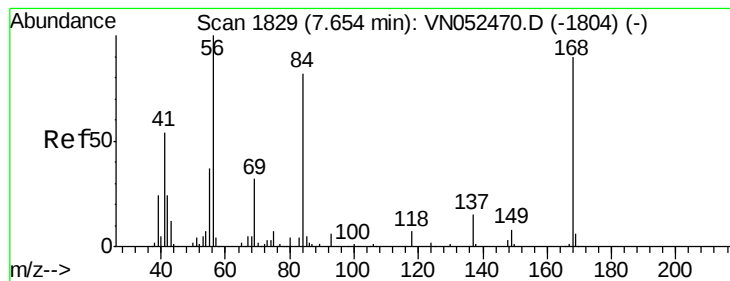
Tot Ion: 43 Resp: 4943
Ion Ratio Lower Upper
43 100
72 20.0 20.1 30.1#



#29
Tetrahydrofuran
Concen: 0.614 ug/l
RT: 7.23 min Scan# 1697
Delta R.T. 0.02 min
Lab File: VN052685.D
Acq: 5 Dec 2018 19:07

Tgt Ion: 42 Resp: 1874
Ion Ratio Lower Upper
42 100
72 0.0 33.3 49.9#
71 5.2 32.0 48.0#





#31

Cyclohexane

Concen: 0.579 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN052685.D

Acq: 5 Dec 2018 19:07

Instrument :

MSVOA_N

ClientSampleId :

OK-02-120418-BRE

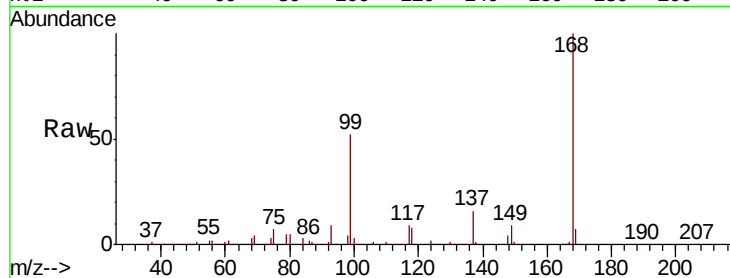
Tot Ion: 56 Resp: 20481

Ion Ratio Lower Upper

56 100

69 192.6 25.8 38.6#

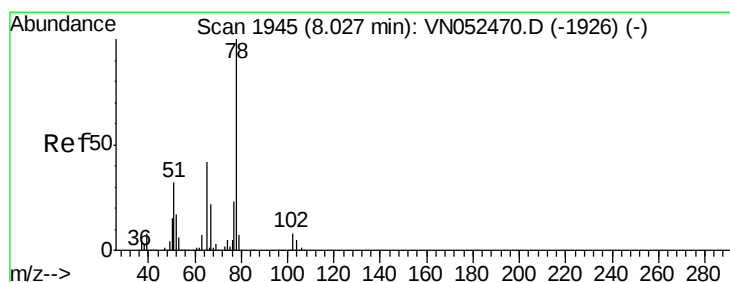
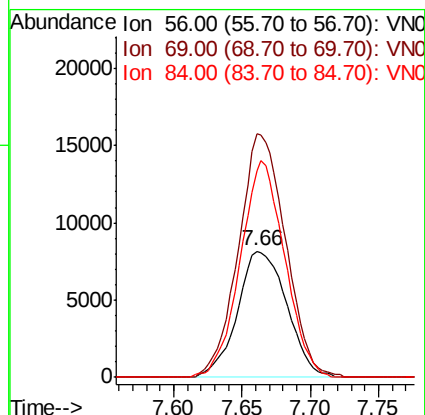
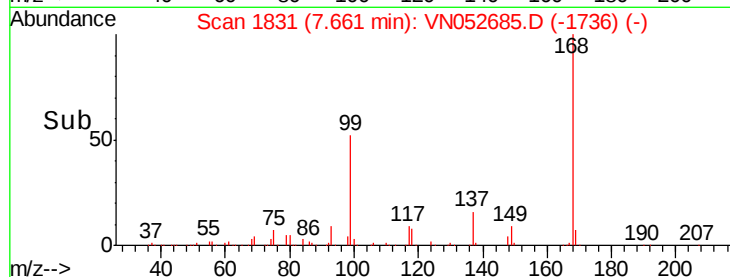
84 163.2 65.3 97.9#



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: VN052685.D

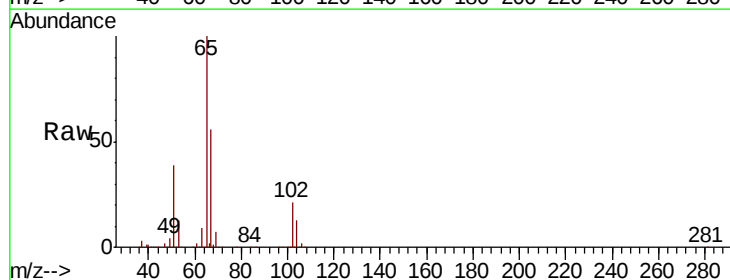
Acq: 5 Dec 2018 19:07

Tgt Ion: 65 Resp: 620123

Ion Ratio Lower Upper

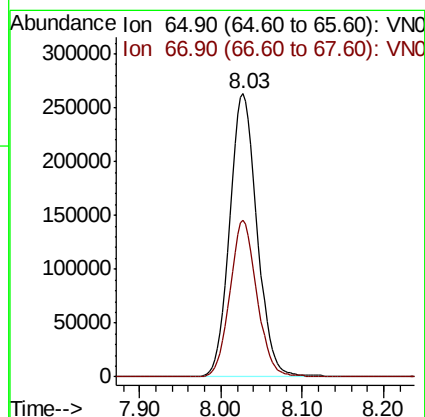
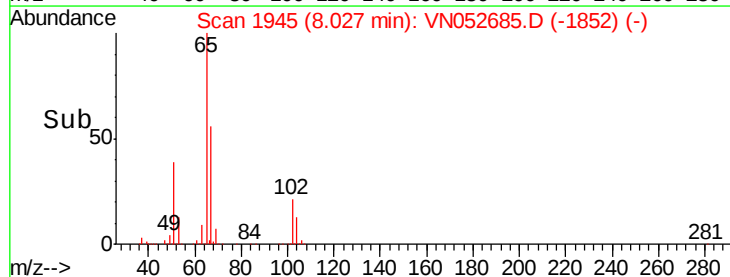
65 100

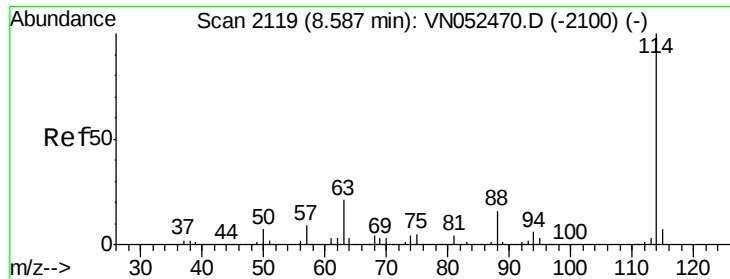
67 54.5 0.0 109.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

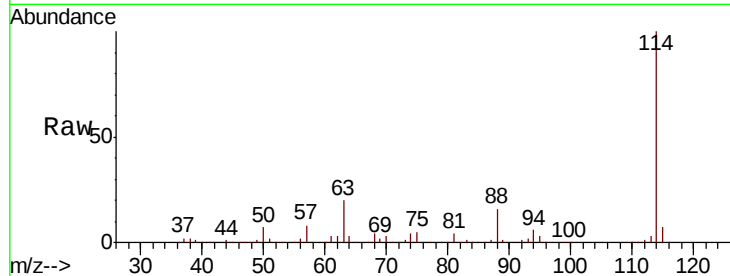




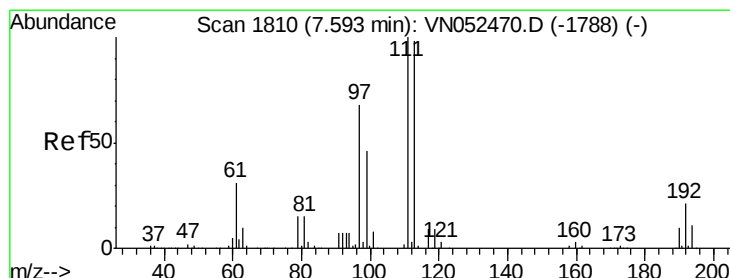
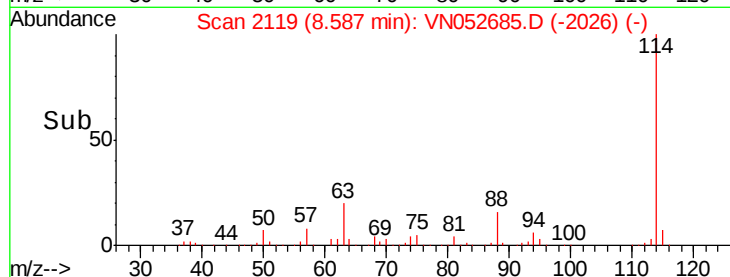
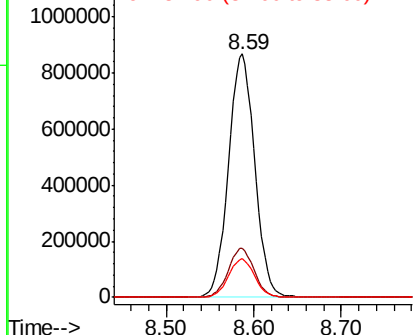
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052685.D
 Acq: 5 Dec 2018 19:07

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Tot Ion:114 Resp: 1804605
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 41.8
 88 15.7 0.0 31.6

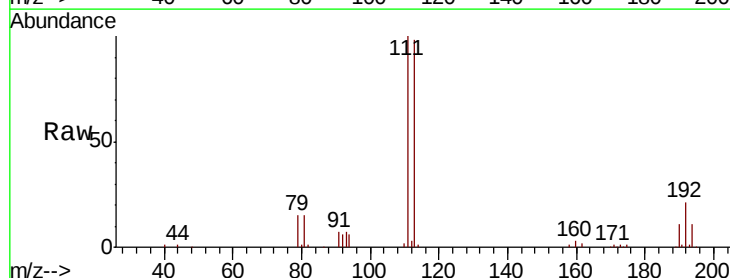


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

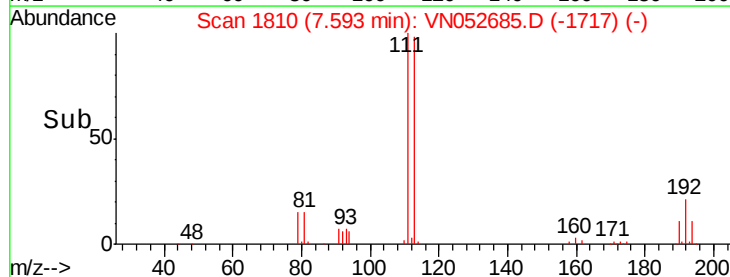
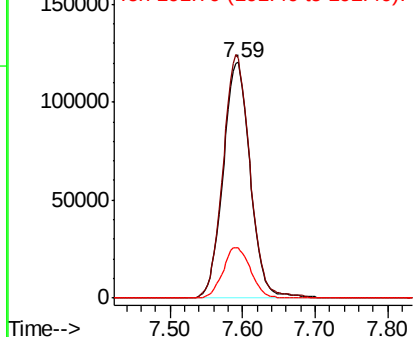


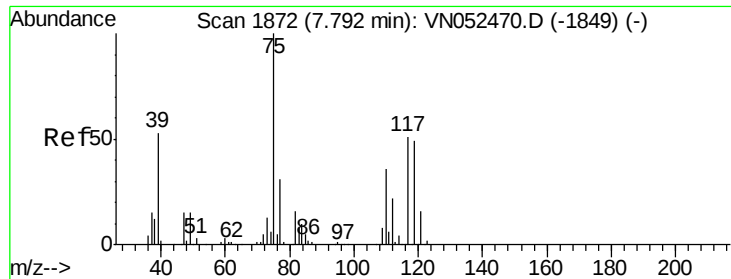
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052685.D
 Acq: 5 Dec 2018 19:07

Tgt Ion:113 Resp: 312486
 Ion Ratio Lower Upper
 113 100
 111 102.4 82.0 123.0
 192 21.7 17.0 25.6



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

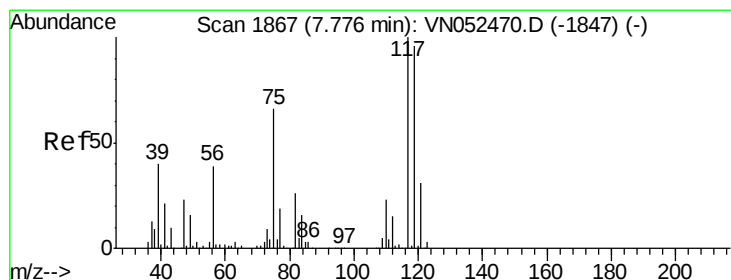
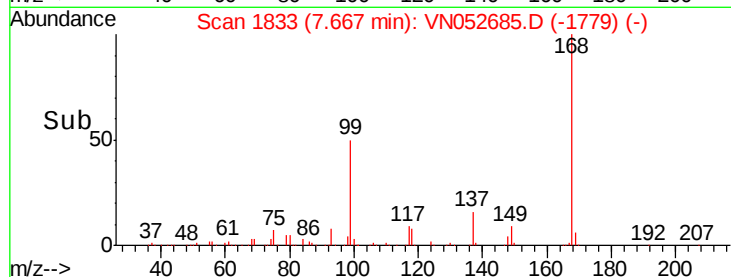
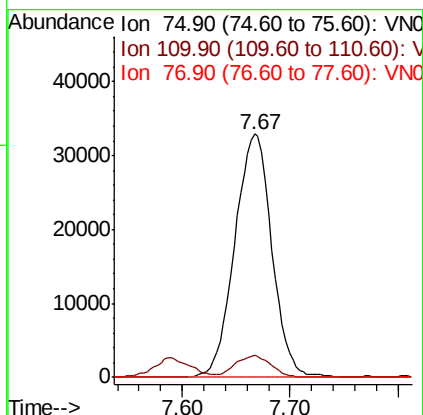
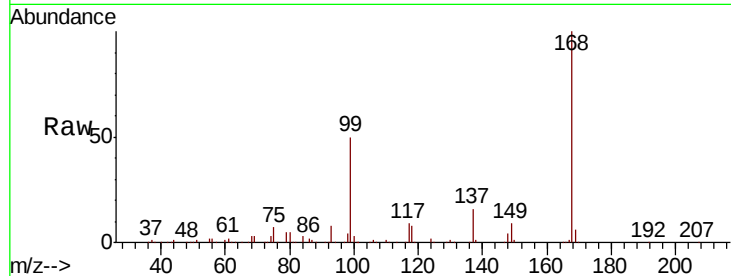




#36
 1,1-Dichloropropene
 Concen: 4.616 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052685.D
 Acq: 5 Dec 2018 19:07

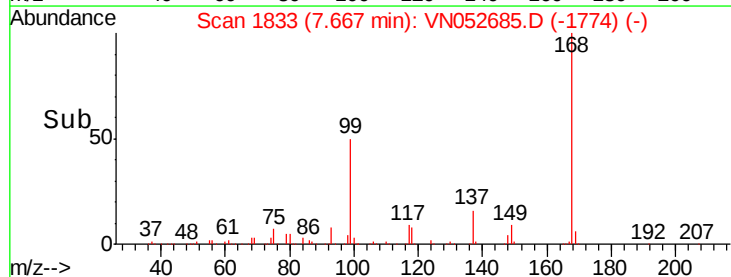
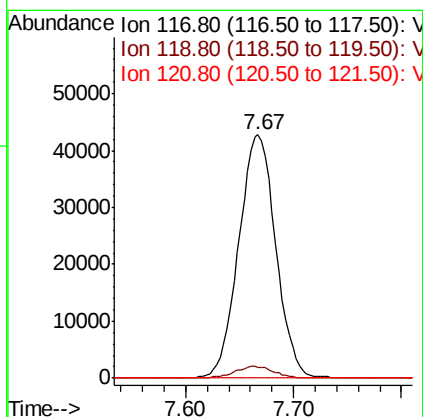
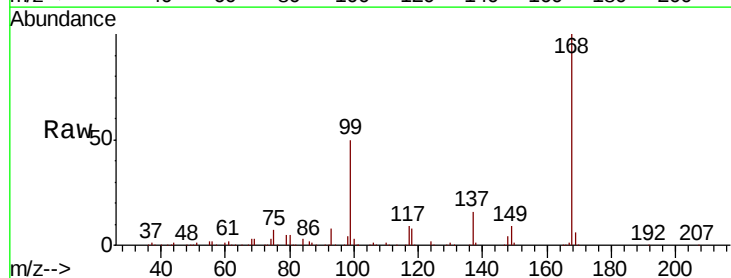
Instrument :
 MSVOA_N
 ClientSampleId :
 OK-02-120418-BRE

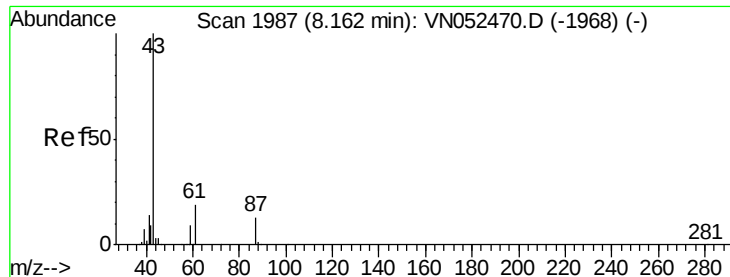
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.6	17.5	52.6#
77	0.0	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 6.607 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN052685.D
 Acq: 5 Dec 2018 19:07

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.6	76.8	115.2#
121	0.0	24.9	37.3#





#43

Isopropyl Acetate

Concen: 2.177 ug/l

RT: 8.25 min Scan# 2013

Delta R.T. 0.08 min

Lab File: VN052685.D

Acq: 5 Dec 2018 19:07

Instrument :

MSVOA_N

ClientSampleId :

OK-02-120418-BRE

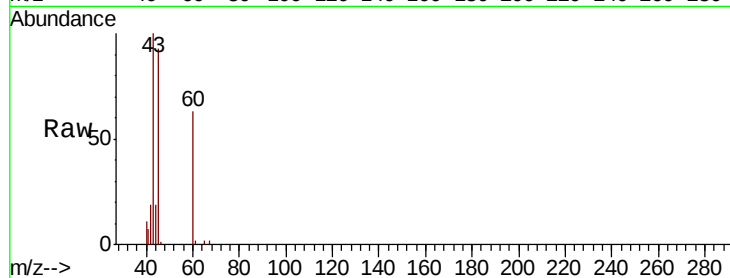
Tot Ion: 43 Resp: 38324

Ion Ratio Lower Upper

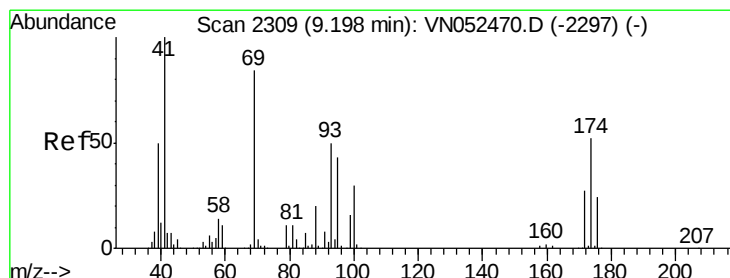
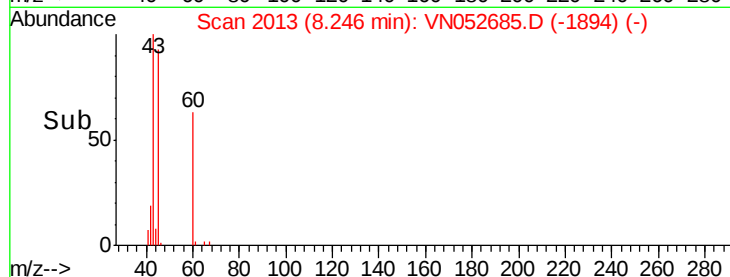
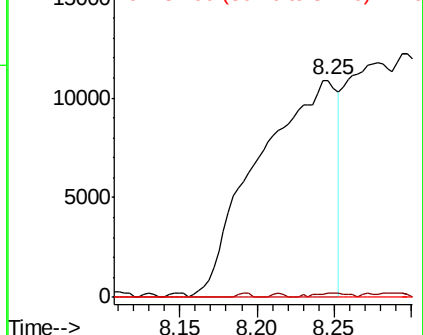
43 100

61 0.0 24.1 36.1#

87 0.0 10.6 15.8#



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



#48

Methyl methacrylate

Concen: 1.897 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN052685.D

Acq: 5 Dec 2018 19:07

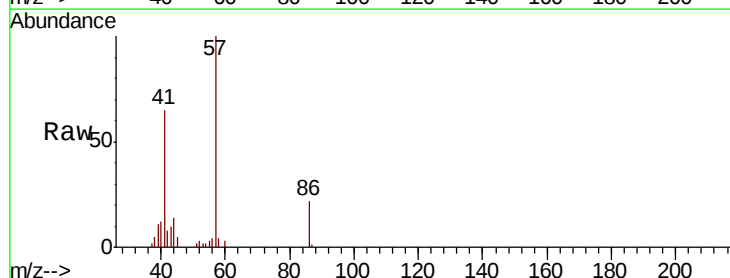
Tgt Ion: 41 Resp: 17412

Ion Ratio Lower Upper

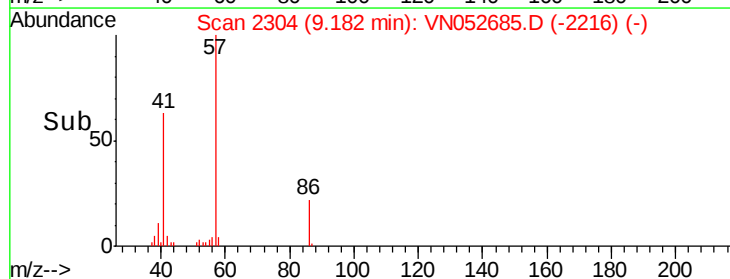
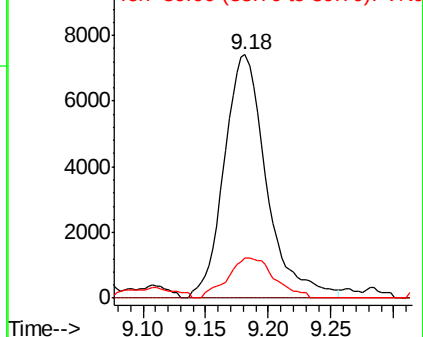
41 100

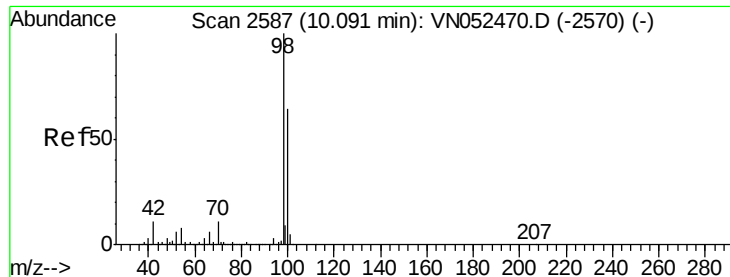
69 0.0 70.0 105.0#

39 18.1 42.6 64.0#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052685.D

Acq: 5 Dec 2018 19:07

Instrument :

MSVOA_N

ClientSampleId :

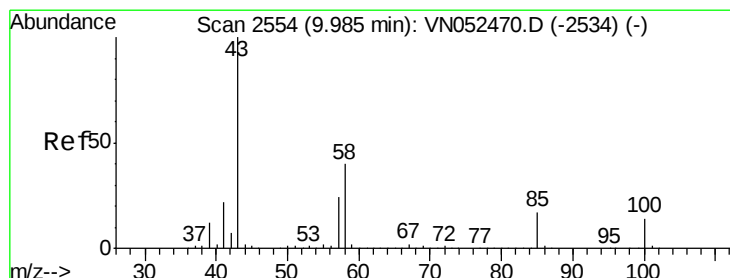
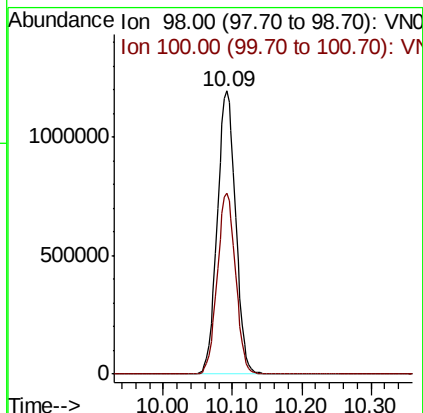
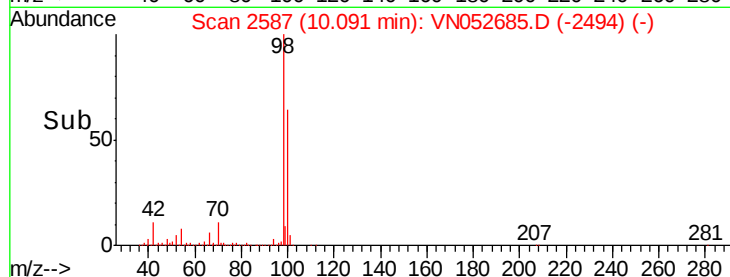
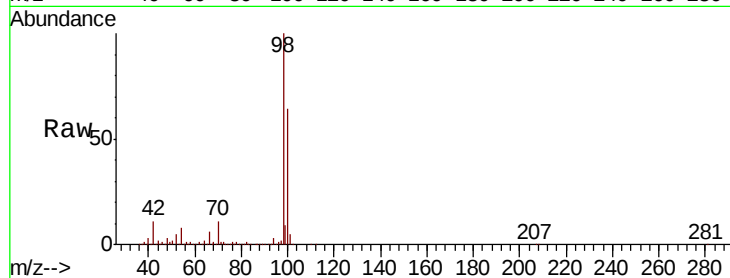
OK-02-120418-BRE

Tot Ion: 98 Resp: 2189143

Ion Ratio Lower Upper

98 100

100 63.7 51.3 76.9



#51

4-Methyl-2-Pentanone

Concen: 0.632 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN052685.D

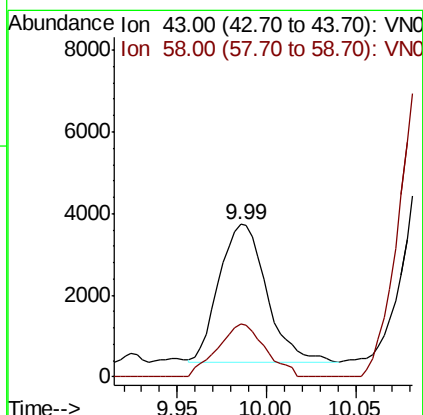
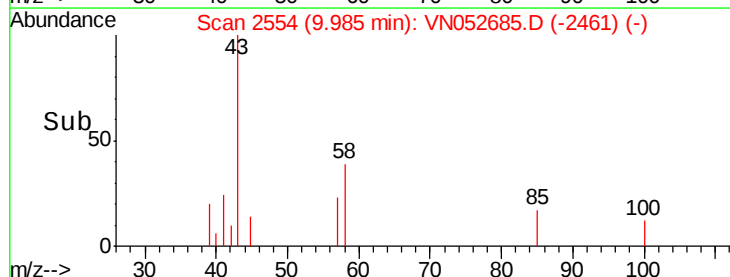
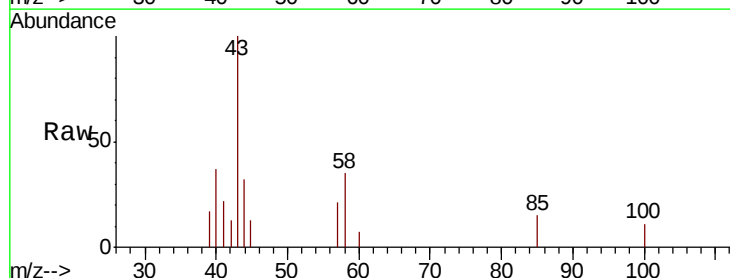
Acq: 5 Dec 2018 19:07

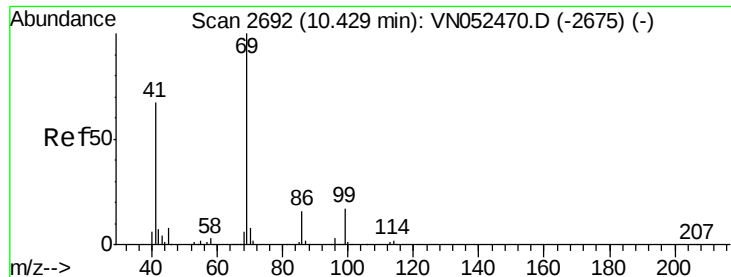
Tgt Ion: 43 Resp: 6238

Ion Ratio Lower Upper

43 100

58 38.5 31.5 47.3





#56

Ethyl methacrylate

Concen: 2.711 ug/l

RT: 10.65 min Scan# 2762

Delta R.T. 0.23 min

Lab File: VN052685.D

Acq: 5 Dec 2018 19:07

Instrument :

MSVOA_N

ClientSampleId :

OK-02-120418-BRE

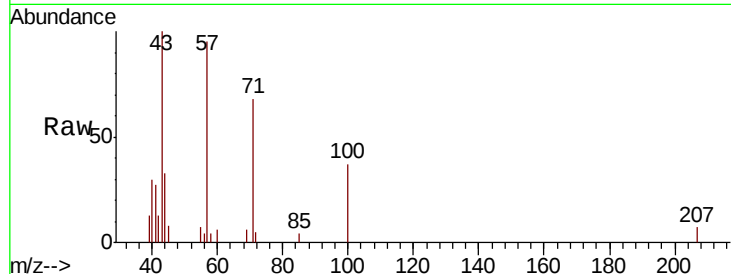
Tot Ion: 69 Resp: 278

Ion Ratio Lower Upper

69 100

41 1289.6 52.6 79.0#

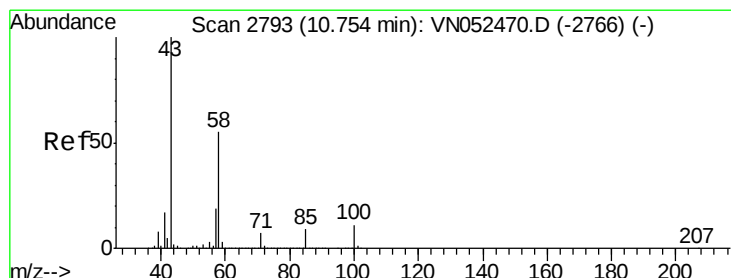
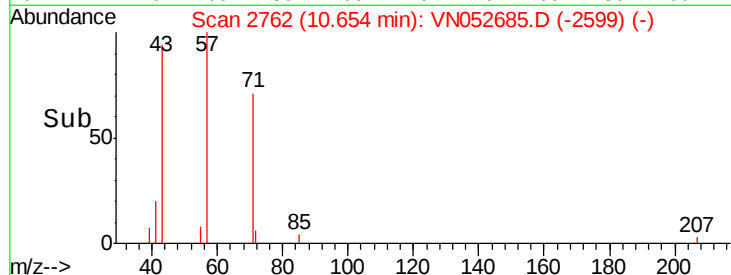
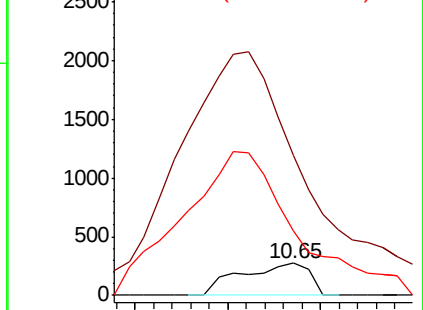
39 754.3 25.9 38.9#



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



#59

2-Hexanone

Concen: 5.226 ug/l

RT: 10.72 min Scan# 2783

Delta R.T. -0.03 min

Lab File: VN052685.D

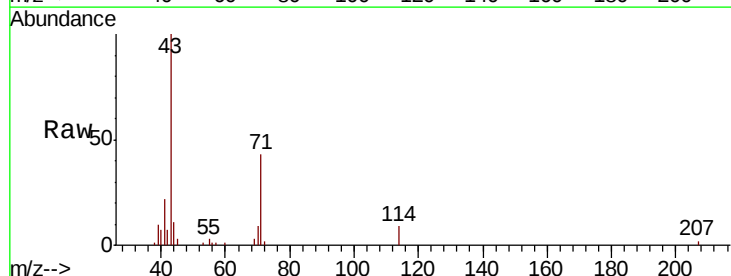
Acq: 5 Dec 2018 19:07

Tgt Ion: 43 Resp: 34634

Ion Ratio Lower Upper

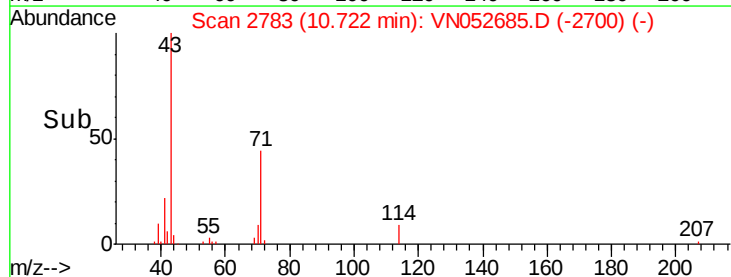
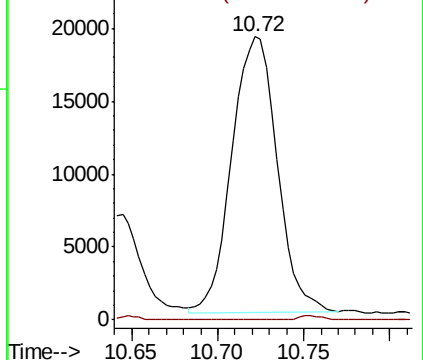
43 100

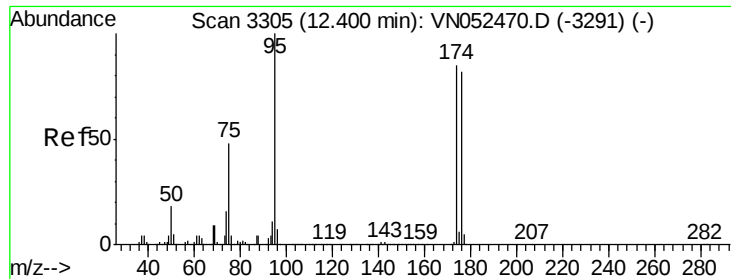
58 0.0 27.4 82.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN052685.D

Acq: 5 Dec 2018 19:07

Instrument :

MSVOA_N

ClientSampleId :

OK-02-120418-BRE

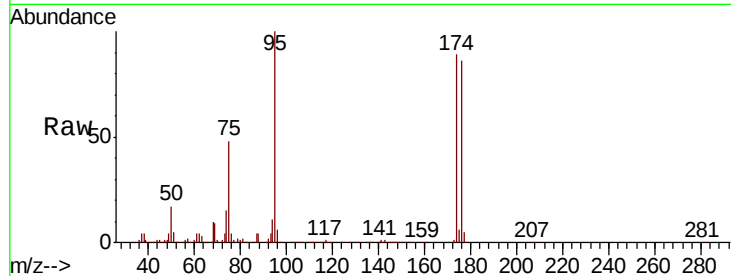
Tot Ion: 95 Resp: 685433

Ion Ratio Lower Upper

95 100

174 88.7 0.0 173.0

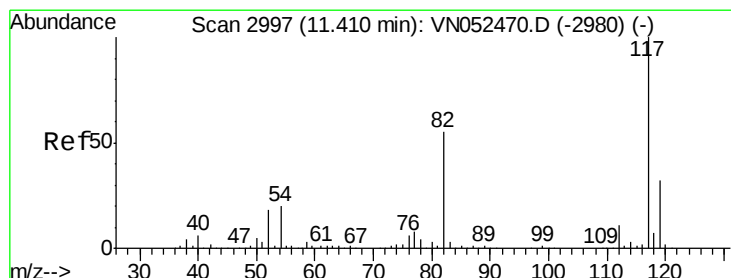
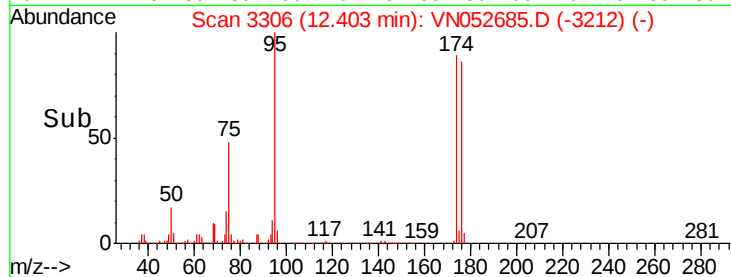
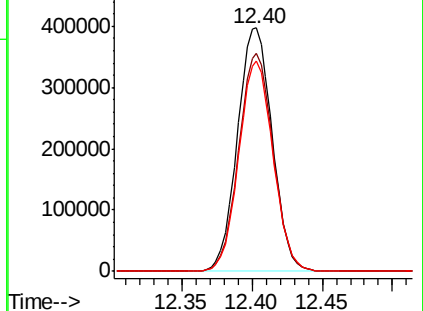
176 85.2 0.0 166.2



Abundance Ion 94.90 (94.60 to 95.60): VN052470.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN052470.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN052470.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN052685.D

Acq: 5 Dec 2018 19:07

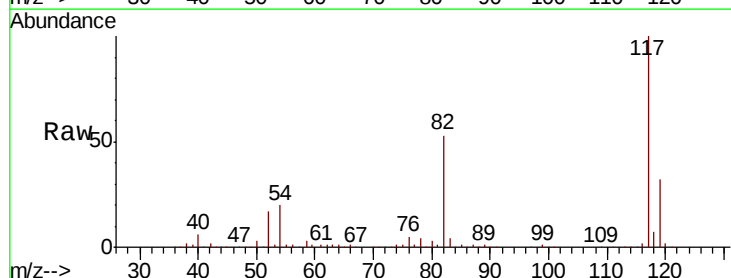
Tgt Ion: 117 Resp: 1572676

Ion Ratio Lower Upper

117 100

82 53.4 43.6 65.4

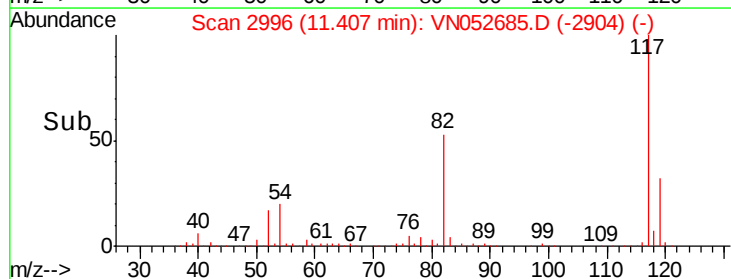
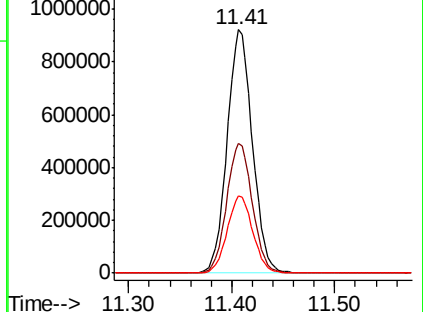
119 31.7 25.4 38.2

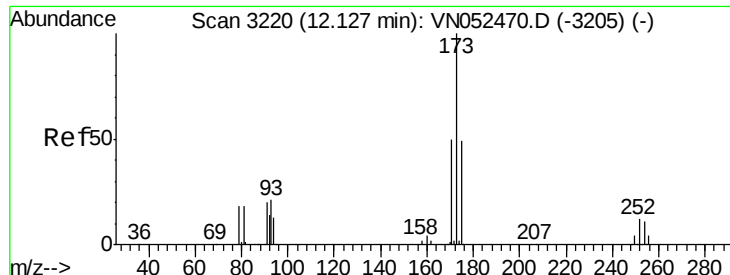


Abundance Ion 116.90 (116.60 to 117.60): VN052470.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN052470.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN052470.D (-2980) (-)





#71

Bromoform

Concen: 0.565 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN052685.D

Acq: 5 Dec 2018 19:07

Instrument :

MSVOA_N

ClientSampleId :

OK-02-120418-BRE

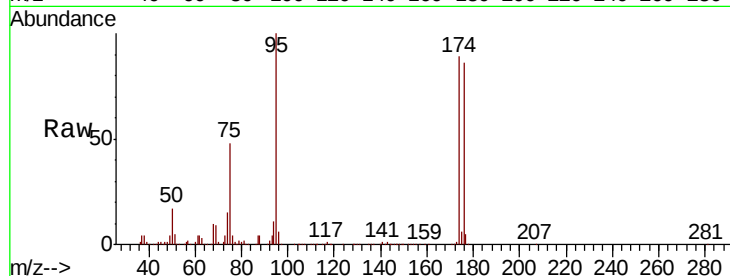
Tot Ion:173 Resp: 4216

Ion Ratio Lower Upper

173 100

175 885.8 24.4 73.2#

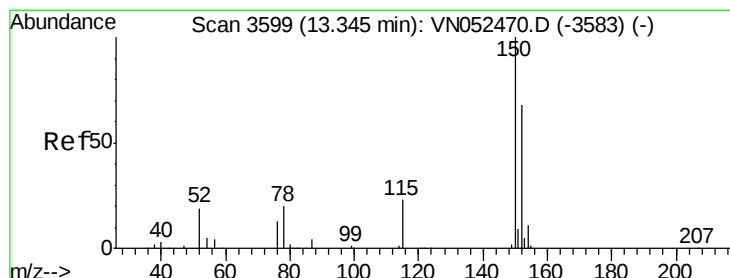
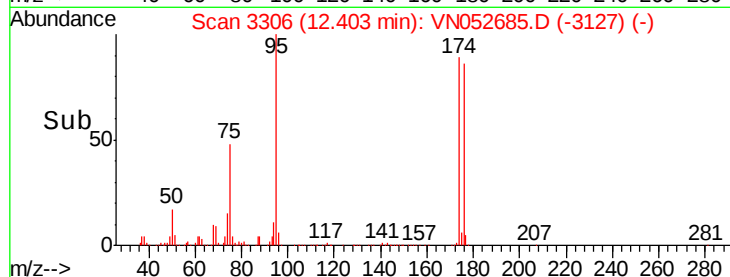
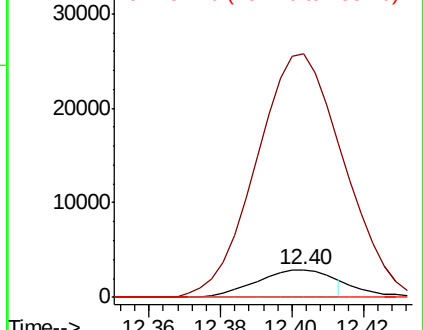
254 0.0 0.1 0.1#



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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN052685.D

Acq: 5 Dec 2018 19:07

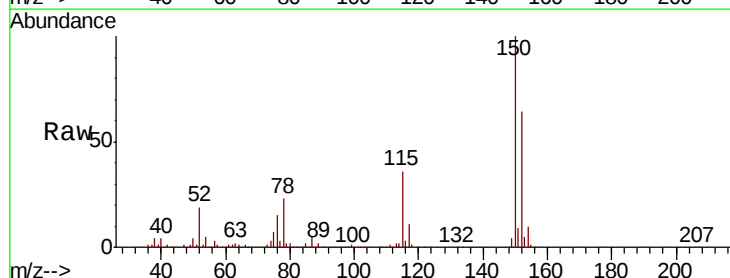
Tgt Ion:152 Resp: 594790

Ion Ratio Lower Upper

152 100

115 56.7 28.4 85.2

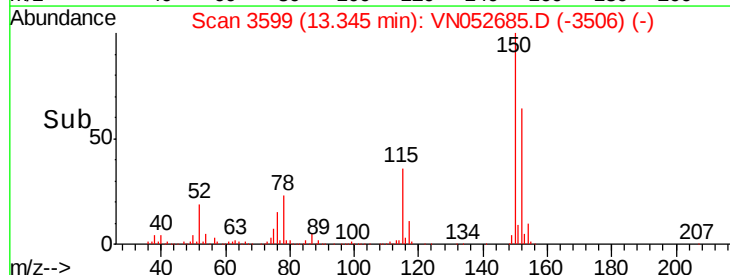
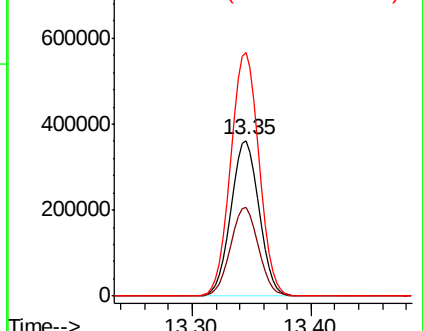
150 157.2 0.0 346.0

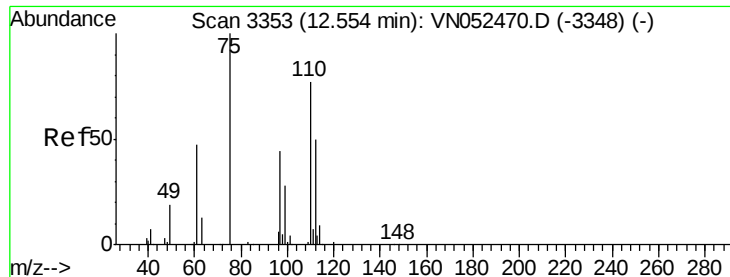


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 35.871 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN052685.D

Acq: 5 Dec 2018 19:07

Instrument :

MSVOA_N

ClientSampleId :

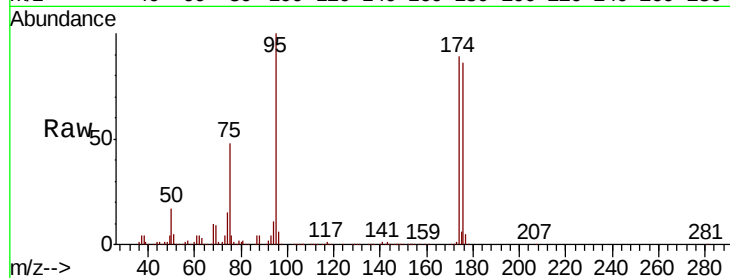
OK-02-120418-BRE

Tot Ion: 75 Resp: 329007

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN052470.D (-3348) (-)

Ion 77.00 (76.70 to 77.70): VN052470.D (-3348) (-)

12.40

200000

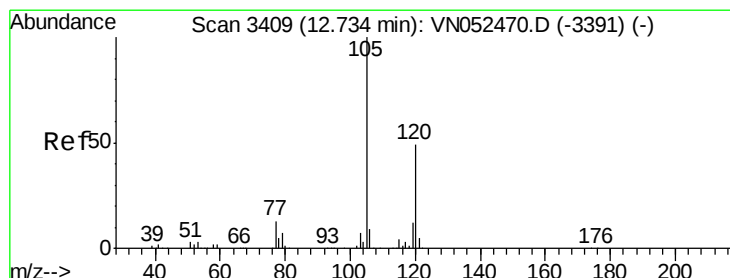
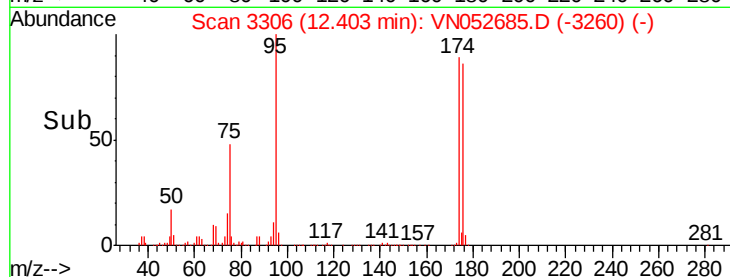
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#80

1,3,5-Trimethylbenzene

Concen: 0.201 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN052685.D

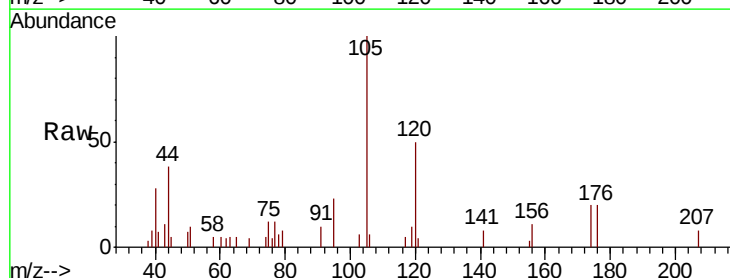
Acq: 5 Dec 2018 19:07

Tgt Ion: 105 Resp: 7491

Ion Ratio Lower Upper

105 100

120 50.6 24.3 73.0



Abundance Ion 105.00 (104.70 to 105.70): VN052470.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN052470.D (-3391) (-)

12.73

5000

4000

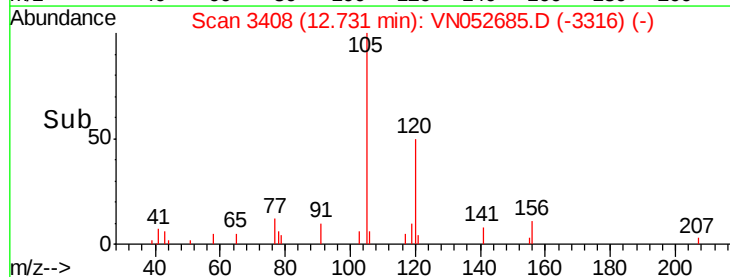
3000

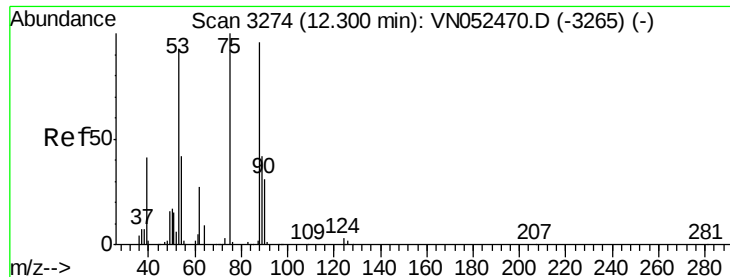
2000

1000

0

Time--> 12.70 12.75





#81

trans-1,4-Dichloro-2-butene

Concen: 119.792 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052685.D

Acq: 5 Dec 2018 19:07

Instrument :

MSVOA_N

ClientSampleId :

OK-02-120418-BRE

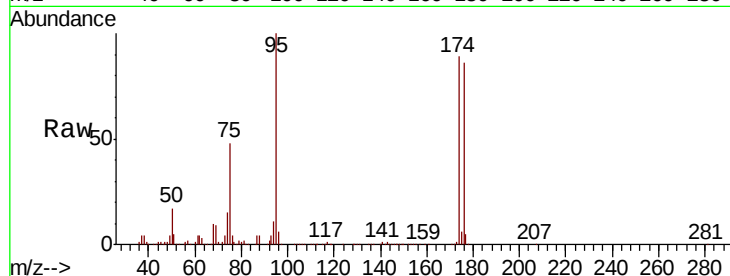
Tot Ion: 75 Resp: 329007

Ion Ratio Lower Upper

75 100

53 0.0 77.4 116.0#

89 0.0 35.4 53.2#

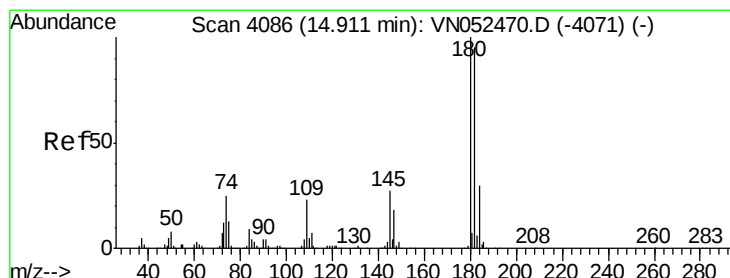
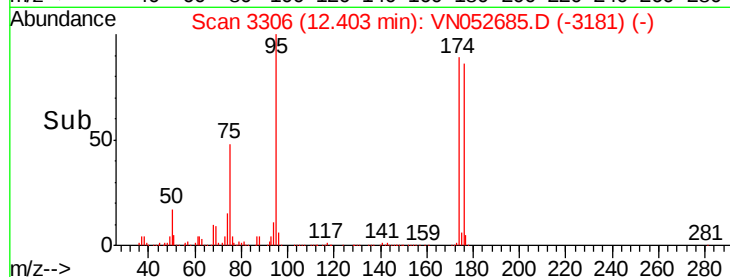
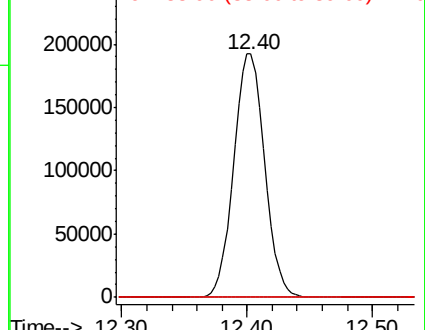


Abundance

Ion 74.90 (74.60 to 75.60): VN052470.D (-3265) (-)

Ion 53.00 (52.70 to 53.70): VN052470.D (-3265) (-)

Ion 88.90 (88.60 to 89.60): VN052470.D (-3265) (-)



#93

1,2,4-Trichlorobenzene

Concen: 2.838 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. -0.00 min

Lab File: VN052685.D

Acq: 5 Dec 2018 19:07

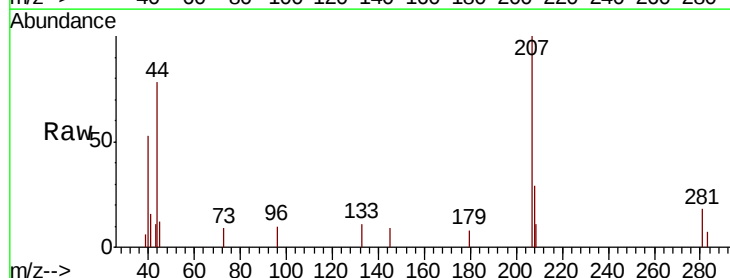
Tgt Ion:180 Resp: 96

Ion Ratio Lower Upper

180 100

182 0.0 47.8 143.4#

145 420.8 14.1 42.3#

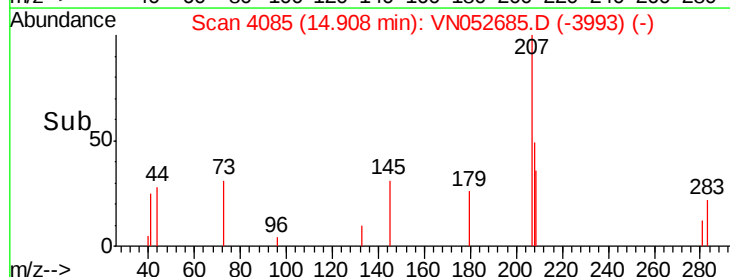
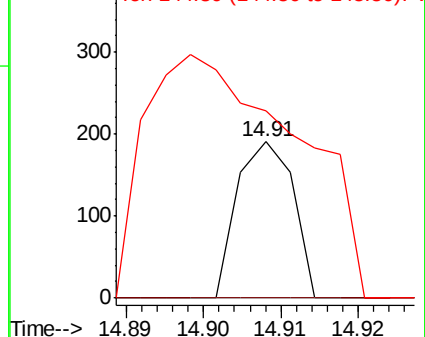


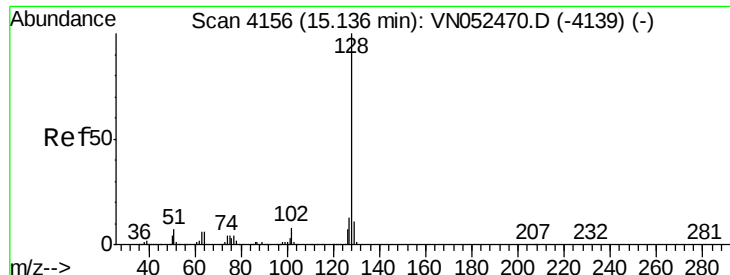
Abundance

Ion 179.80 (179.50 to 180.50): VN052470.D (-4071) (-)

Ion 181.80 (181.50 to 182.50): VN052470.D (-4071) (-)

Ion 144.80 (144.50 to 145.50): VN052470.D (-4071) (-)





#95

Naphthalene

Concen: 4.566 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN052685.D

Acq: 5 Dec 2018 19:07

Instrument :

MSVOA_N

ClientSampleId :

OK-02-120418-BRE

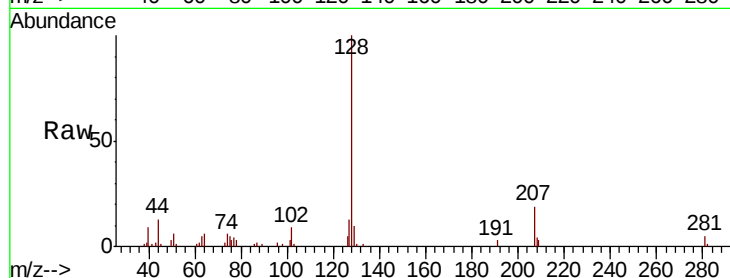
Tot Ion:128 Resp: 27347

Ion Ratio Lower Upper

128 100

127 11.9 10.2 15.2

129 10.6 8.7 13.1



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

