

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN112018\
 Data File : VN052402.D
 Acq On : 20 Nov 2018 12:52
 Operator : MD\SY
 Sample : PB114954TB
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114954TB

Quant Time: Nov 20 13:19:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	298609	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	498862	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	413121	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	136748	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	218586	51.83	ug/l	0.00
Spiked Amount 50.000			Recovery =	103.66%		
35) Dibromofluoromethane	7.59	113	164313	51.07	ug/l	0.00
Spiked Amount 50.000			Recovery =	102.14%		
50) Toluene-d8	10.09	98	622199	49.16	ug/l	0.00
Spiked Amount 50.000			Recovery =	98.32%		
62) 4-Bromofluorobenzene	12.40	95	178434	42.85	ug/l	0.00
Spiked Amount 50.000			Recovery =	85.70%		

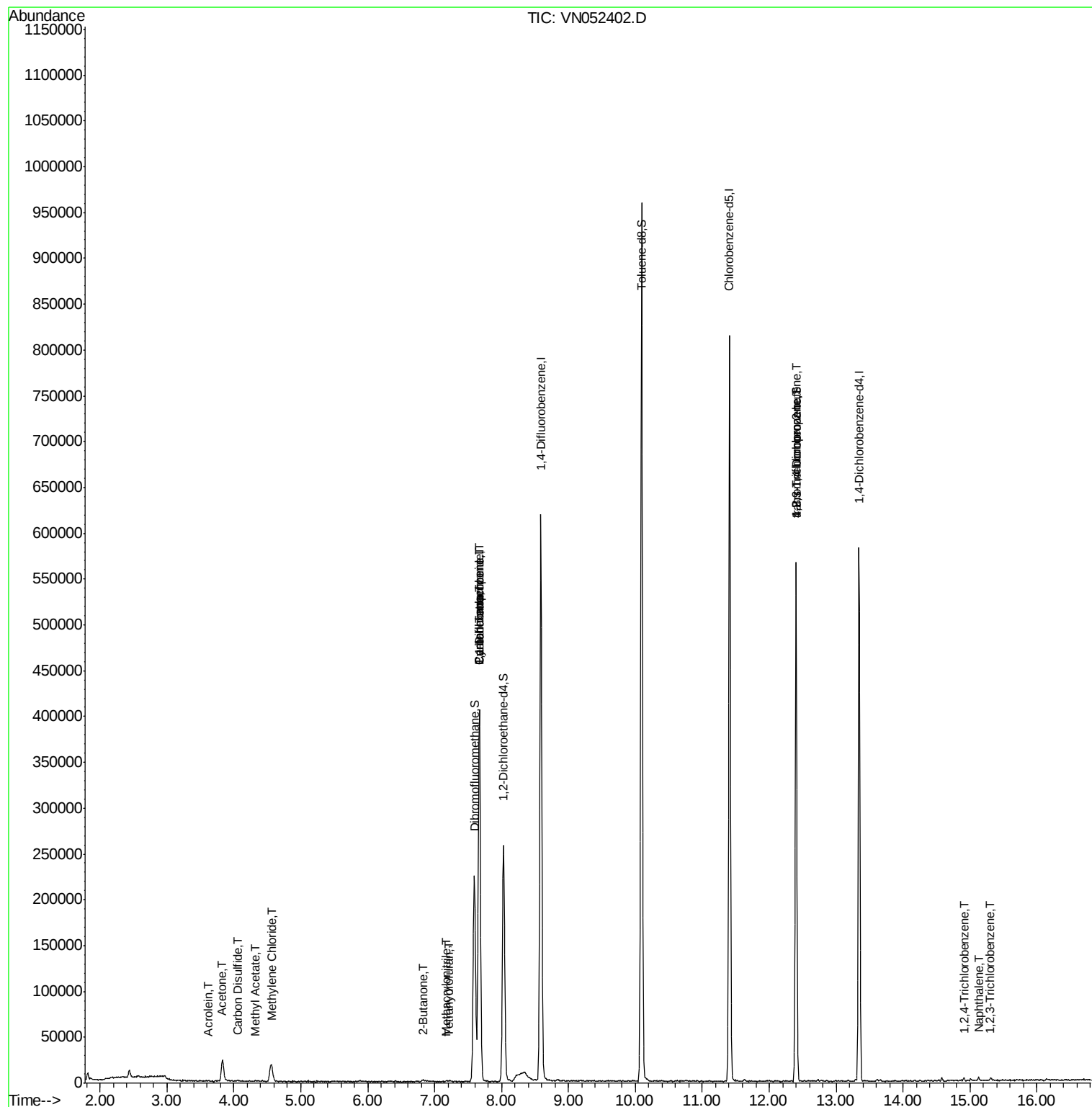
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	63	21.94	ug/l #	66
16) Acetone	3.82	43	3148	2.71	ug/l #	75
17) Carbon Disulfide	4.05	76	2081	0.24	ug/l #	74
18) Methyl Acetate	4.32	43	589	0.61	ug/l #	57
20) Methylene Chloride	4.56	84	11974	2.73	ug/l	94
25) 2-Butanone	6.84	43	575	0.35	ug/l #	52
29) Tetrahydrofuran	7.21	42	256	0.24	ug/l #	40
31) Cyclohexane	7.66	56	9618	0.45	ug/l #	37
36) 1,1-Dichloropropene	7.67	75	27433	5.49	ug/l #	52
38) Carbon Tetrachloride	7.66	117	32998	7.18	ug/l #	16
41) Methacrylonitrile	7.18	41	246	3.81	ug/l #	100
76) 1,2,3-Trichloropropane	12.40	75	103850	44.76	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	103850	145.16	ug/l #	5
93) 1,2,4-Trichlorobenzene	14.90	180	829	2.64	ug/l	81
95) Naphthalene	15.13	128	2468	3.09	ug/l #	84
96) 1,2,3-Trichlorobenzene	15.31	180	868	0.52	ug/l	81

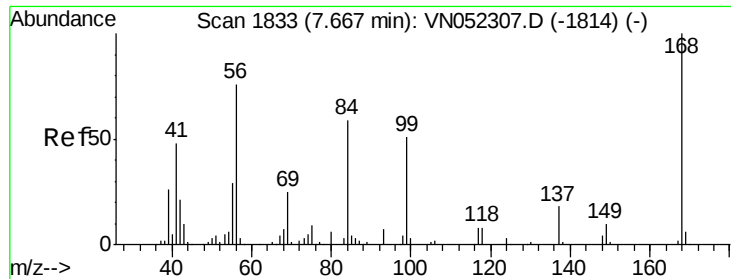
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN052402.D

Acq: 20 Nov 2018 12:52

Instrument :

MSVOA_N

ClientSampleId :

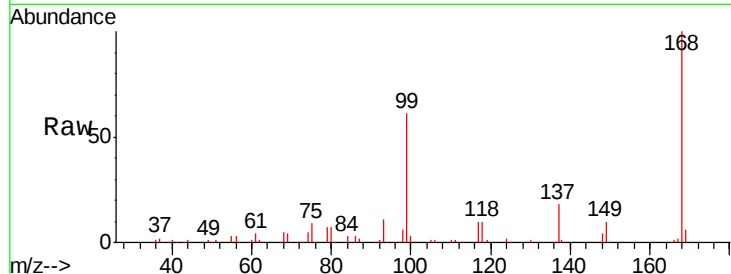
PB114954TB

Tgt Ion:168 Resp: 298609

Ion Ratio Lower Upper

168 100

99 60.7 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VN052307.D (-1814) (-)

Ion 98.90 (98.60 to 99.60): VN052307.D (-1814) (-)

7.67

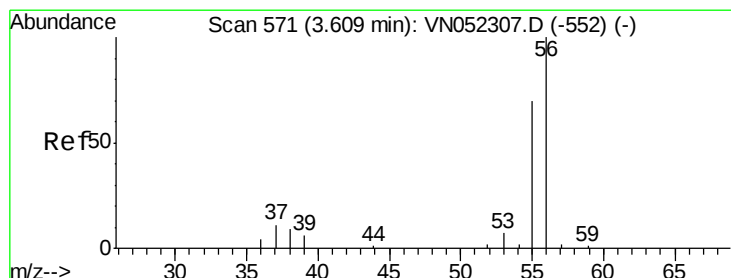
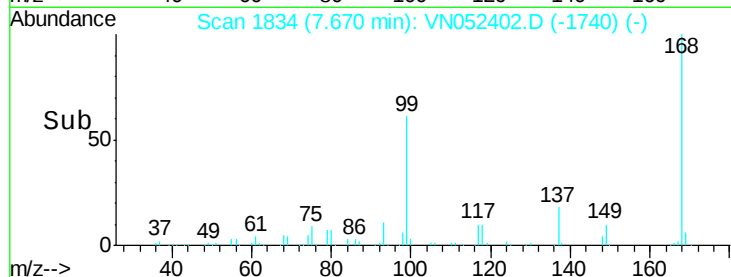
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 21.94 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN052402.D

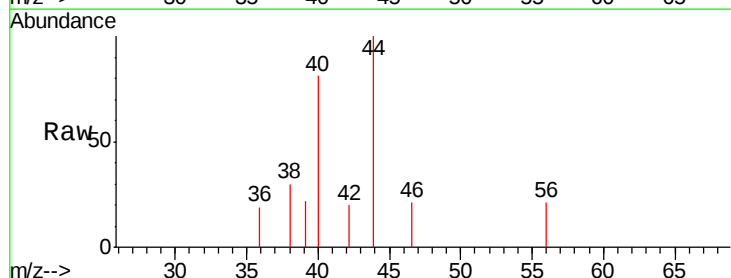
Acq: 20 Nov 2018 12:52

Tgt Ion: 56 Resp: 63

Ion Ratio Lower Upper

56 100

55 100.0 57.6 86.4#



Abundance Ion 56.00 (55.70 to 56.70): VN052307.D (-552) (-)

Ion 55.00 (54.70 to 55.70): VN052307.D (-552) (-)

3.61

200

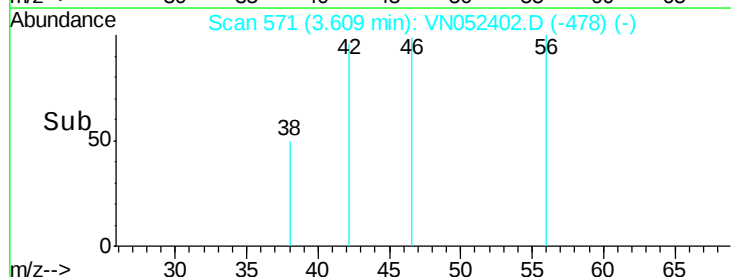
150

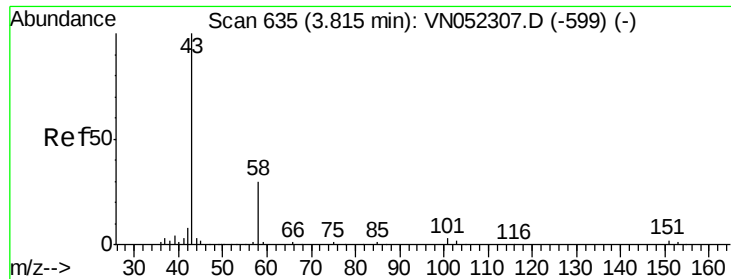
100

50

0

Time-->





#16

Acetone

Concen: 2.71 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN052402.D

Acq: 20 Nov 2018 12:52

Instrument :

MSVOA_N

ClientSampled :

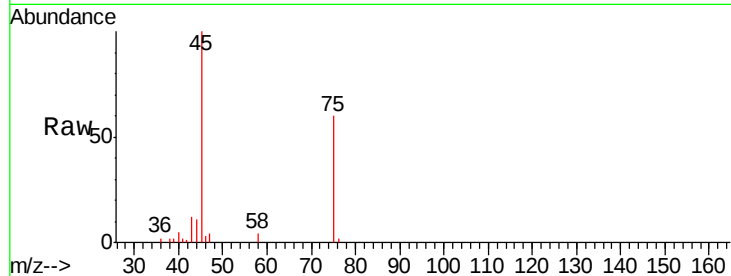
PB114954TB

Tgt Ion: 43 Resp: 3148

Ion Ratio Lower Upper

43 100

58 43.9 24.2 36.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

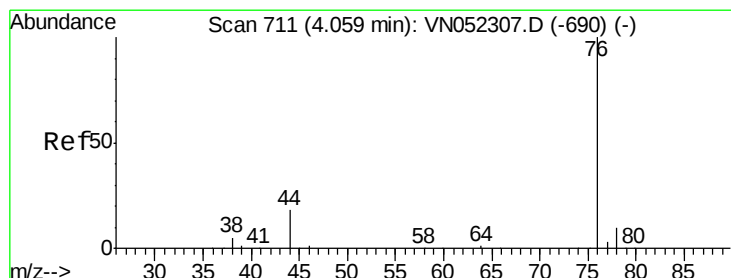
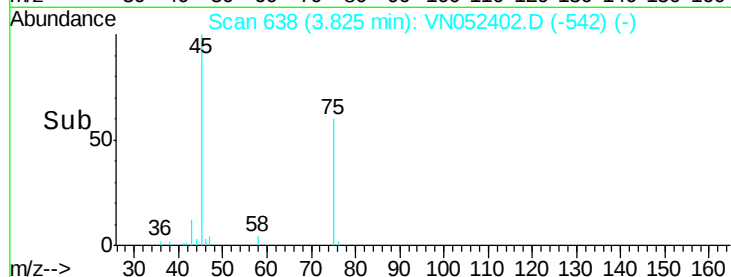
1500

1000

500

0

Time--> 3.75 3.80 3.85 3.90



#17

Carbon Disulfide

Concen: 0.24 ug/l

RT: 4.05 min Scan# 708

Delta R.T. -0.01 min

Lab File: VN052402.D

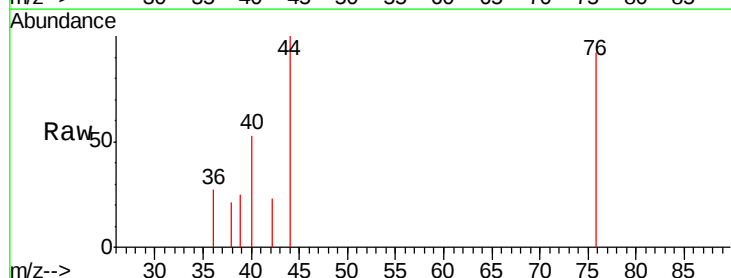
Acq: 20 Nov 2018 12:52

Tgt Ion: 76 Resp: 2081

Ion Ratio Lower Upper

76 100

78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.05

800

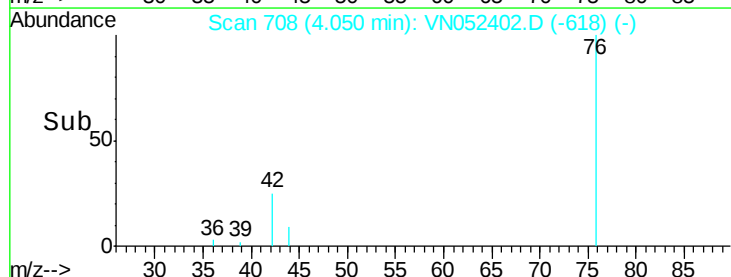
600

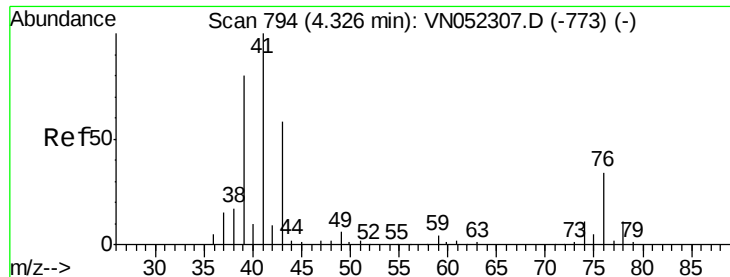
400

200

0

Time--> 4.00 4.05 4.10





#18

Methyl Acetate

Concen: 0.61 ug/l

RT: 4.32 min Scan# 793

Delta R.T. -0.00 min

Lab File: VN052402.D

Acq: 20 Nov 2018 12:52

Instrument :

MSVOA_N

ClientSampleId :

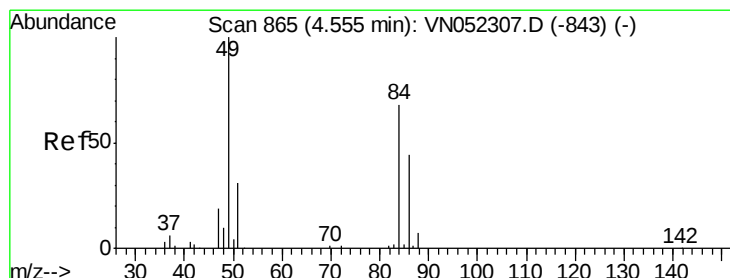
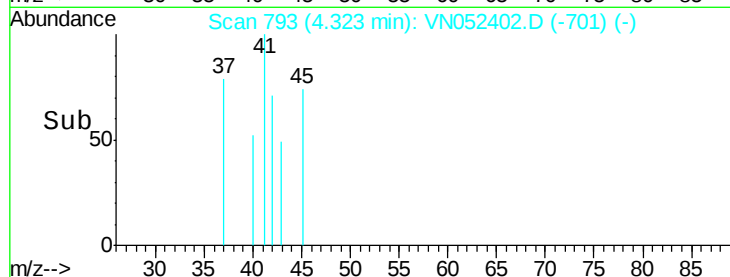
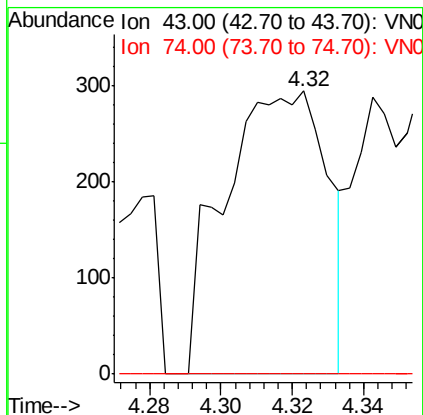
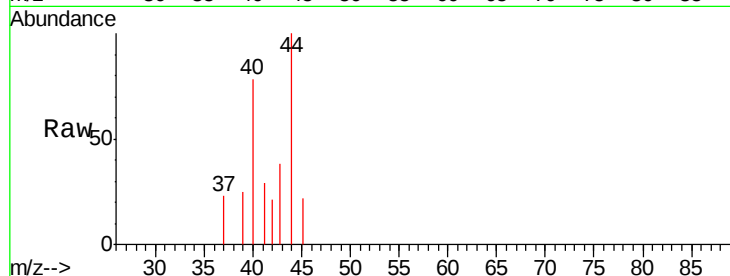
PB114954TB

Tgt Ion: 43 Resp: 589

Ion Ratio Lower Upper

43 100

74 0.0 15.9 23.9#



#20

Methylene Chloride

Concen: 2.73 ug/l

RT: 4.56 min Scan# 867

Delta R.T. 0.01 min

Lab File: VN052402.D

Acq: 20 Nov 2018 12:52

Tgt Ion: 84 Resp: 11974

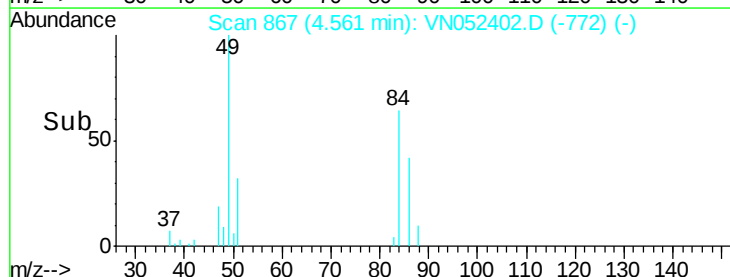
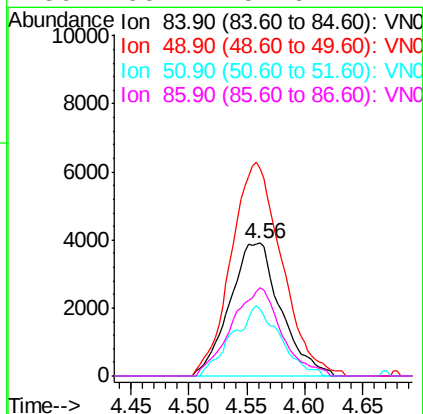
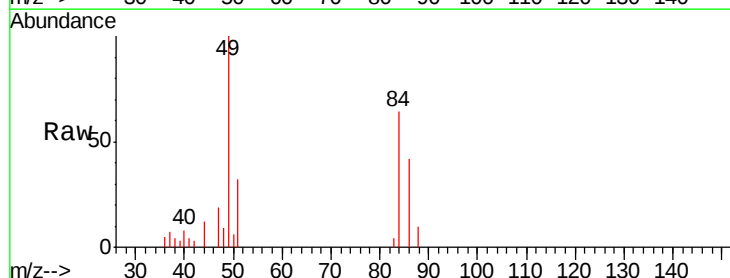
Ion Ratio Lower Upper

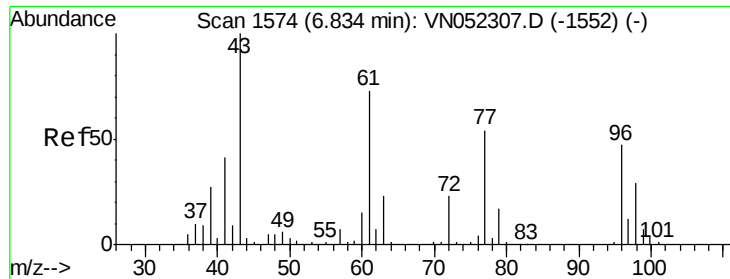
84 100

49 156.4 118.2 177.2

51 50.4 36.1 54.1

86 66.1 51.6 77.4

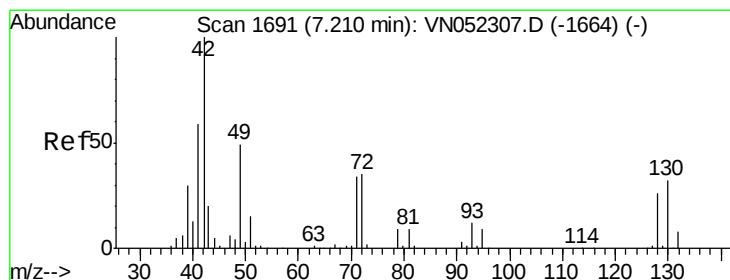
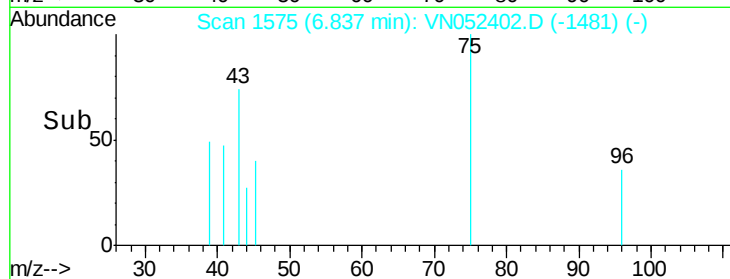
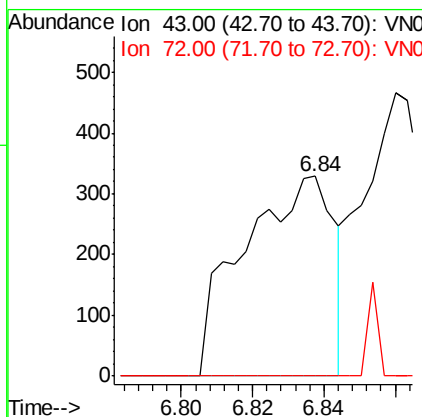
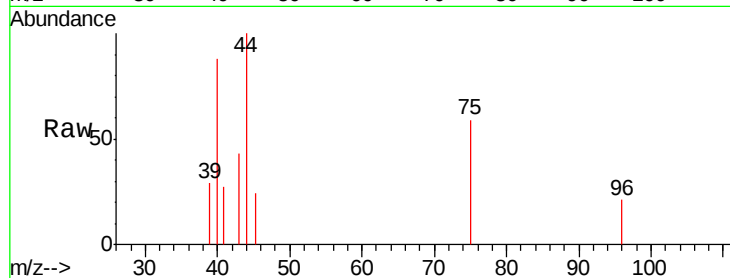




#25
 2-Butanone
 Concen: 0.35 ug/l
 RT: 6.84 min Scan# 1575
 Delta R.T. 0.00 min
 Lab File: VN052402.D
 Acq: 20 Nov 2018 12:52

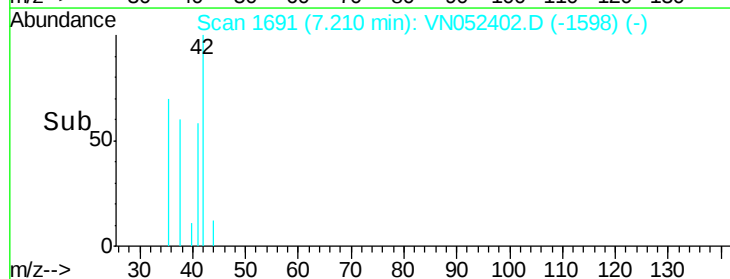
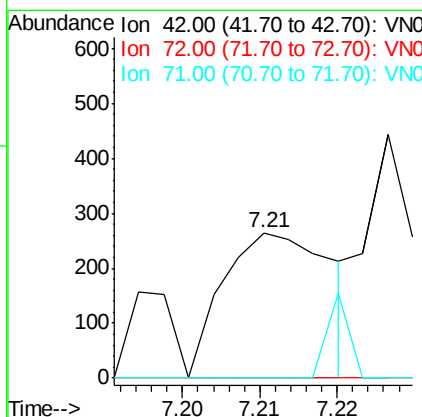
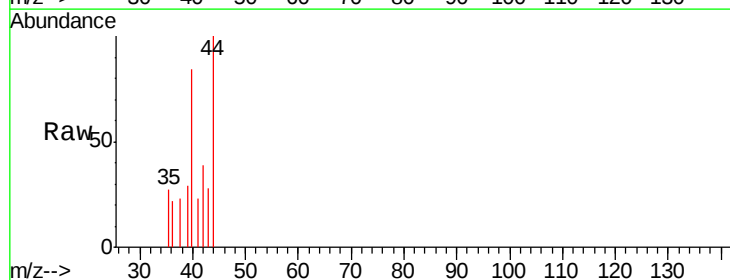
Instrument :
 MSVOA_N
 ClientSampled :
 PB114954TB

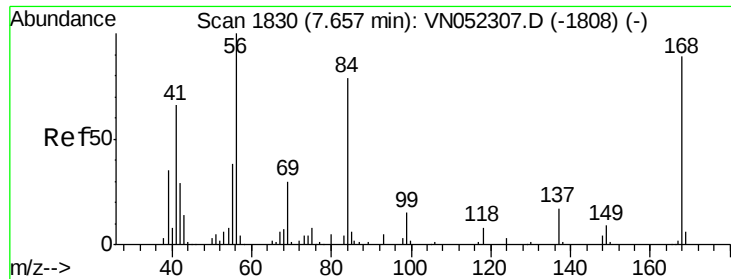
Tgt Ion: 43 Resp: 575
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.6 27.8#



#29
 Tetrahydrofuran
 Concen: 0.24 ug/l
 RT: 7.21 min Scan# 1691
 Delta R.T. -0.00 min
 Lab File: VN052402.D
 Acq: 20 Nov 2018 12:52

Tgt Ion: 42 Resp: 256
 Ion Ratio Lower Upper
 42 100
 72 0.0 28.6 42.8#
 71 0.0 26.7 40.1#

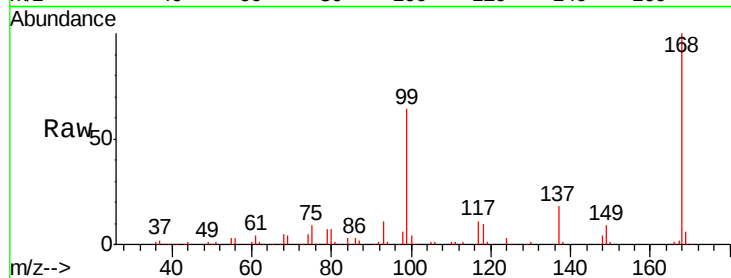




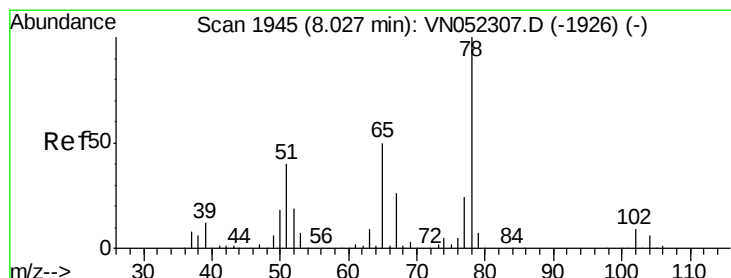
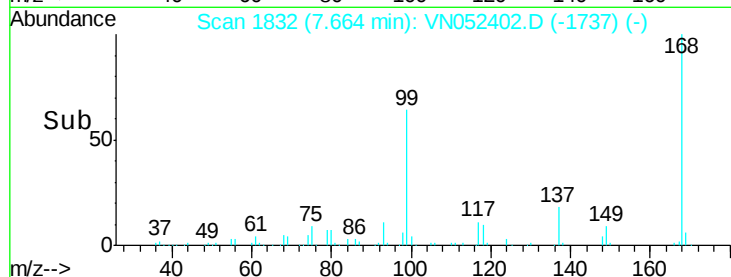
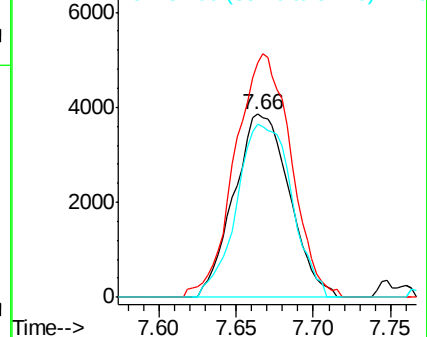
#31
Cyclohexane
Concen: 0.45 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN052402.D
Acq: 20 Nov 2018 12:52

Instrument :
MSVOA_N
ClientSampleId :
PB114954TB

Tgt Ion: 56 Resp: 9618
Ion Ratio Lower Upper
56 100
69 128.1 23.8 35.8#
84 94.9 63.0 94.6#

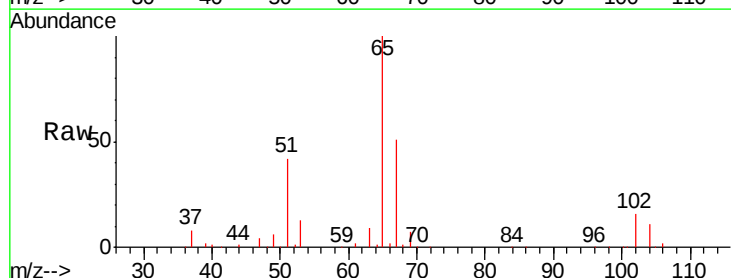


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

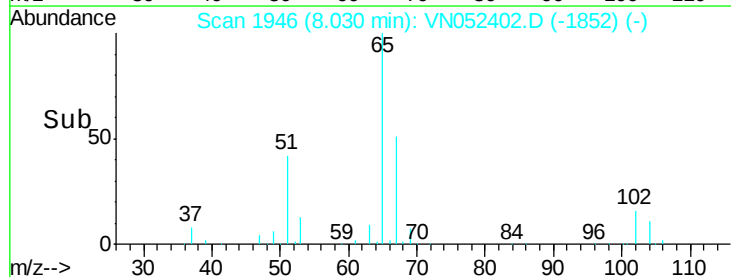
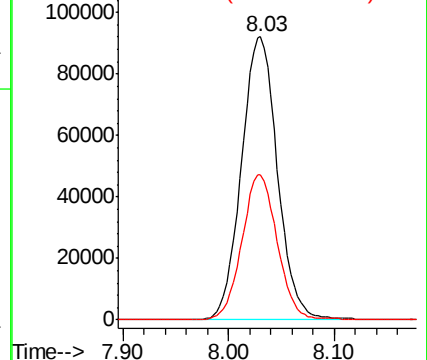


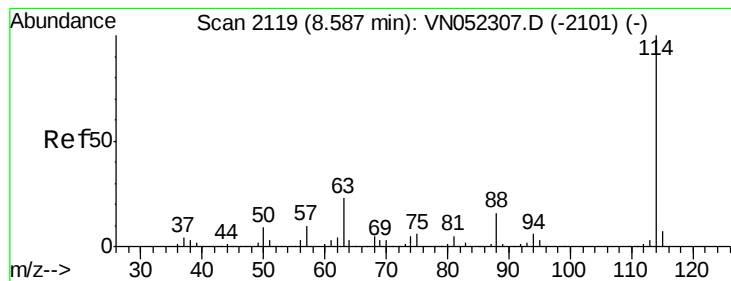
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN052402.D
Acq: 20 Nov 2018 12:52

Tgt Ion: 65 Resp: 218586
Ion Ratio Lower Upper
65 100
67 50.2 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN052402.D

Acq: 20 Nov 2018 12:52

Instrument :

MSVOA_N

ClientSampleId :

PB114954TB

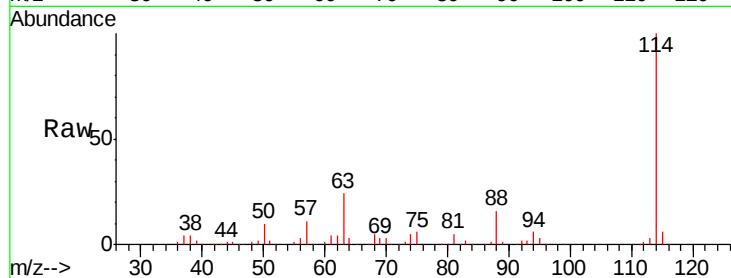
Tgt Ion:114 Resp: 498862

Ion Ratio Lower Upper

114 100

63 23.6 0.0 45.4

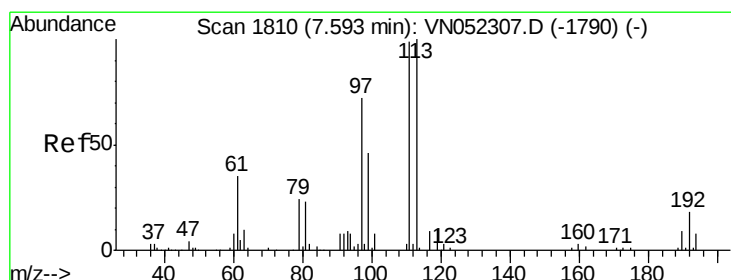
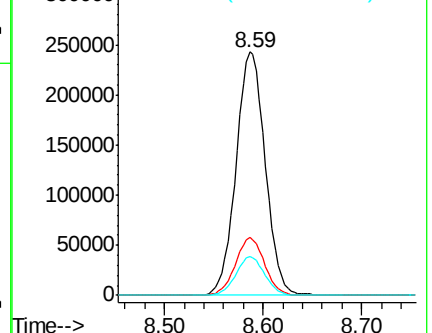
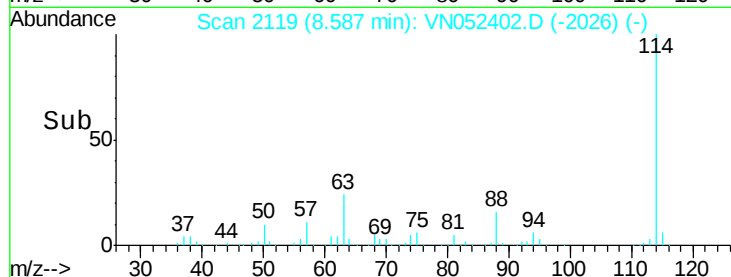
88 15.7 0.0 31.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VN052402.D

Acq: 20 Nov 2018 12:52

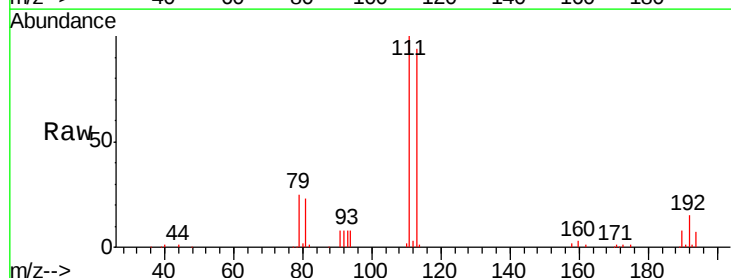
Tgt Ion:113 Resp: 164313

Ion Ratio Lower Upper

113 100

111 102.9 81.0 121.6

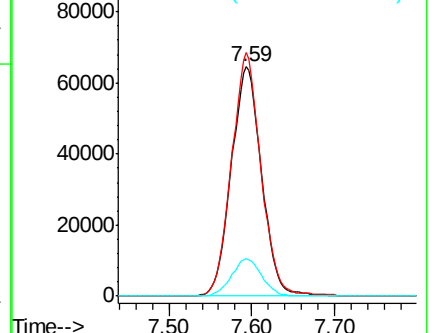
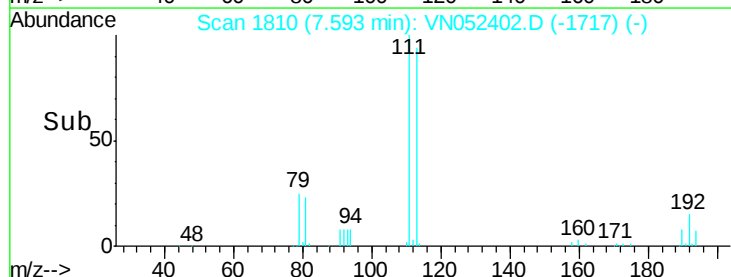
192 16.2 13.8 20.6

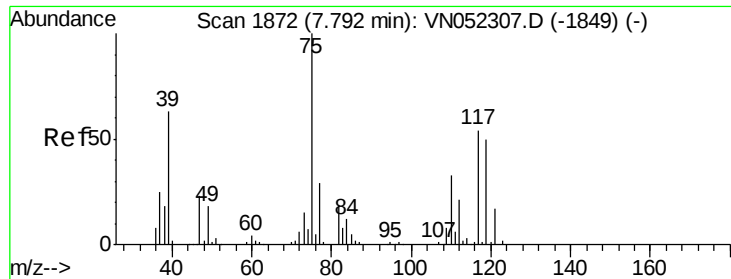


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

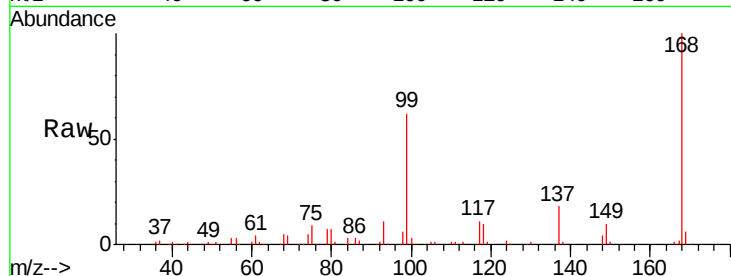




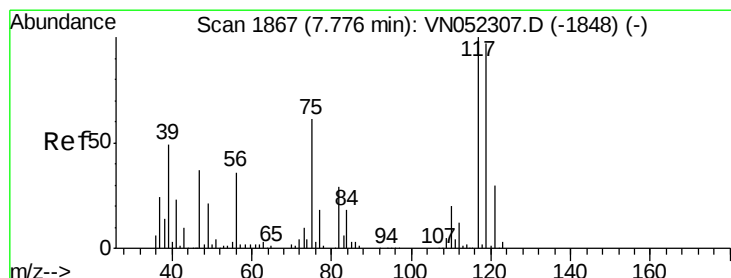
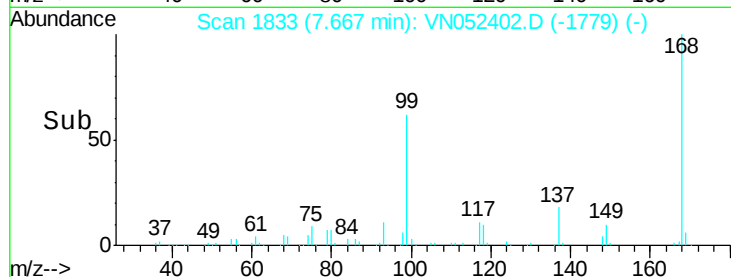
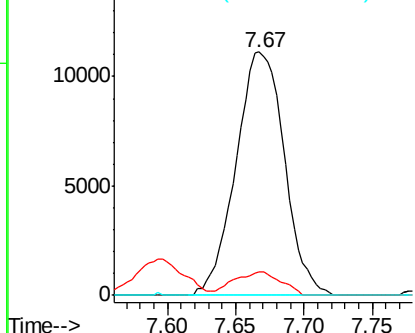
#36
 1,1-Dichloropropene
 Concen: 5.49 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052402.D
 Acq: 20 Nov 2018 12:52

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114954TB

Tgt Ion: 75 Resp: 27433
 Ion Ratio Lower Upper
 75 100
 110 9.4 16.5 49.5#
 77 0.0 24.2 36.2#

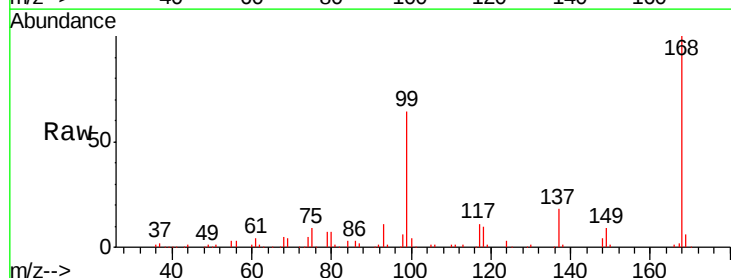


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

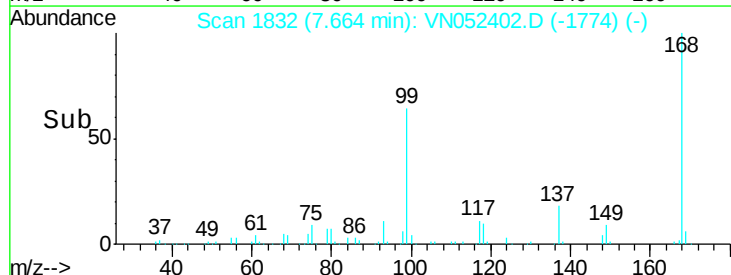
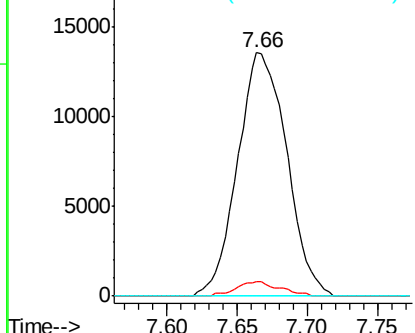


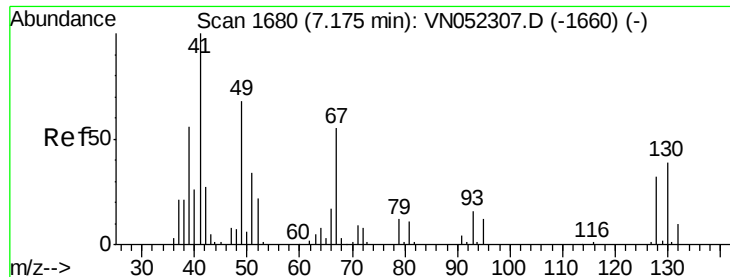
#38
 Carbon Tetrachloride
 Concen: 7.18 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN052402.D
 Acq: 20 Nov 2018 12:52

Tgt Ion: 117 Resp: 32998
 Ion Ratio Lower Upper
 117 100
 119 6.0 77.4 116.0#
 121 0.0 24.0 36.0#



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: 3.81 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VN052402.D

Acq: 20 Nov 2018 12:52

Instrument :

MSVOA_N

ClientSampled :

PB114954TB

Tgt Ion: 41 Resp: 246

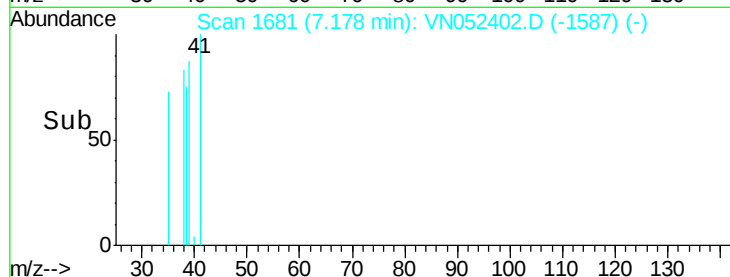
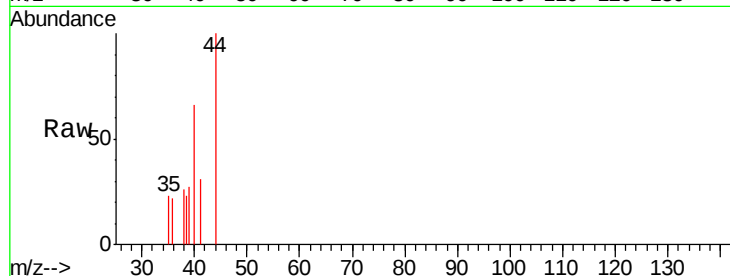
Ion Ratio Lower Upper

41 100

39 121.1 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

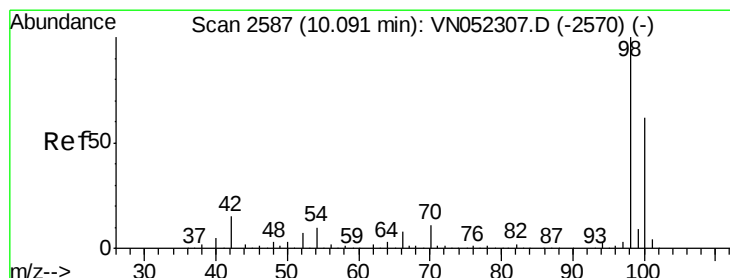
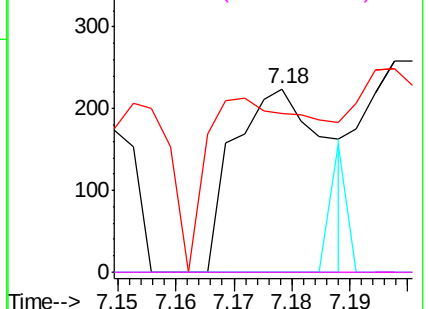


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052402.D

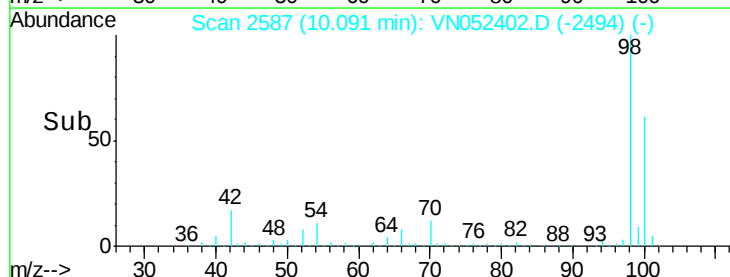
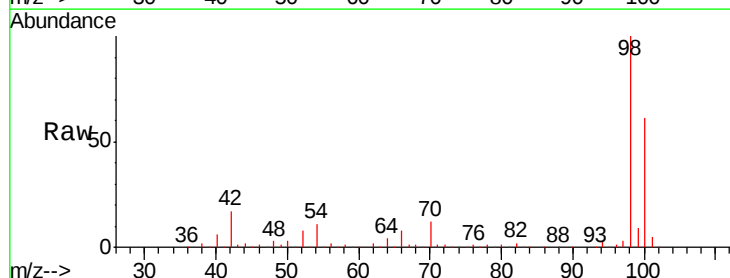
Acq: 20 Nov 2018 12:52

Tgt Ion: 98 Resp: 622199

Ion Ratio Lower Upper

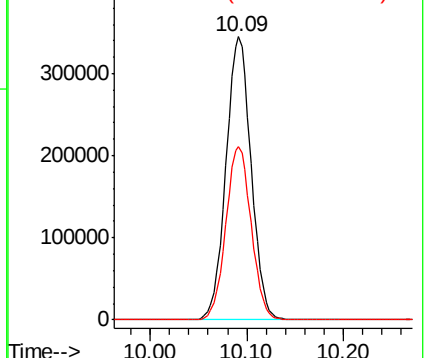
98 100

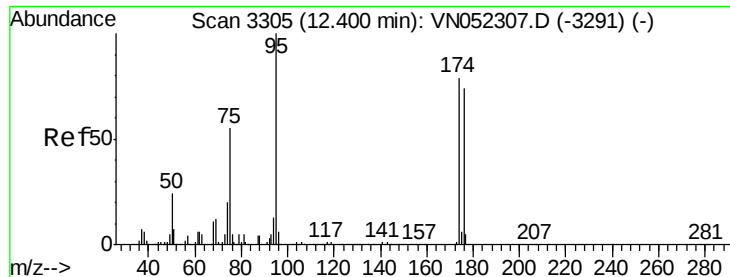
100 62.0 49.5 74.3



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN052402.D

Acq: 20 Nov 2018 12:52

Instrument :

MSVOA_N

ClientSampled :

PB114954TB

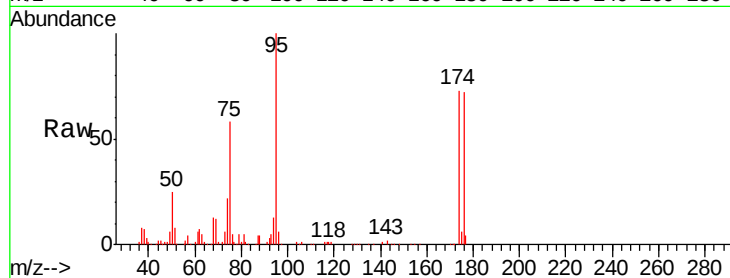
Tgt Ion: 95 Resp: 178434

Ion Ratio Lower Upper

95 100

174 75.0 0.0 156.0

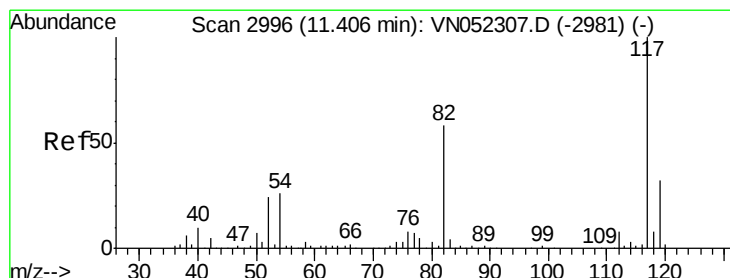
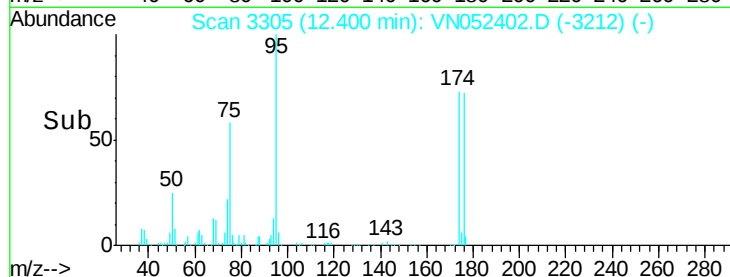
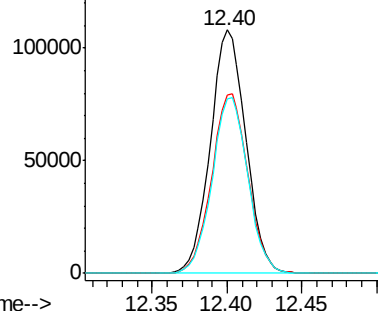
176 72.6 0.0 148.4



Abundance Ion 94.90 (94.60 to 95.60): VN052402.D (-3212) (-)

Ion 173.80 (173.50 to 174.50): VN052402.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN052402.D (-3212) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN052402.D

Acq: 20 Nov 2018 12:52

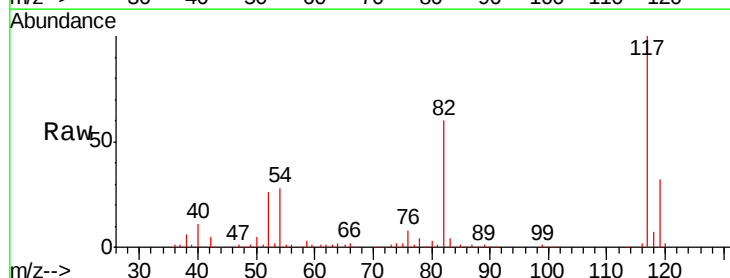
Tgt Ion: 117 Resp: 413121

Ion Ratio Lower Upper

117 100

82 60.2 46.5 69.7

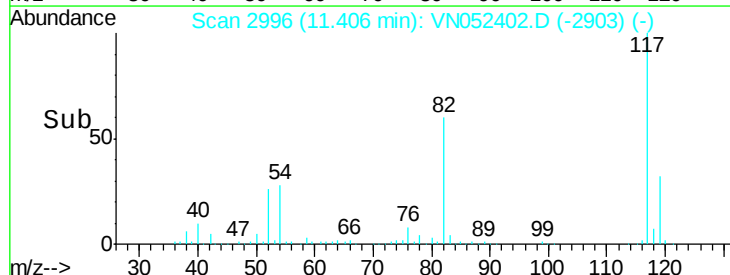
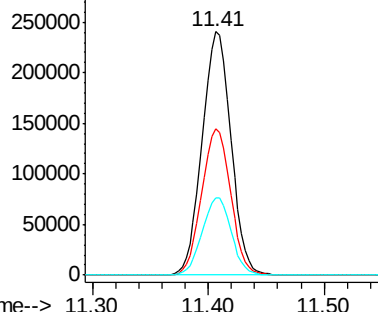
119 31.7 25.7 38.5

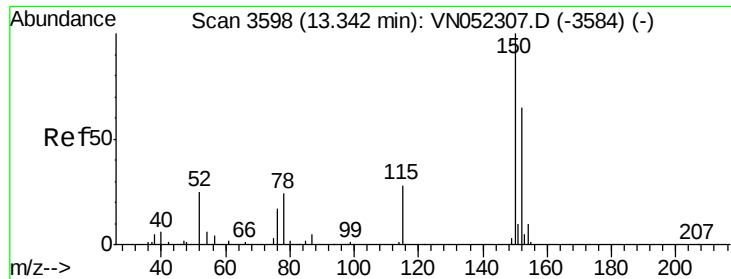


Abundance Ion 116.90 (116.60 to 117.60): VN052402.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN052402.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN052402.D (-2903) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN052402.D

Acq: 20 Nov 2018 12:52

Instrument :

MSVOA_N

ClientSampled :

PB114954TB

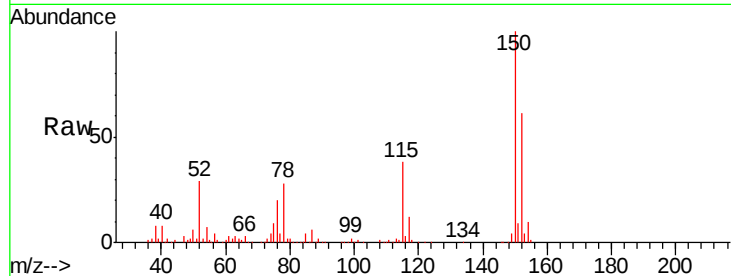
Tgt Ion:152 Resp: 136748

Ion Ratio Lower Upper

152 100

115 62.2 30.3 91.0

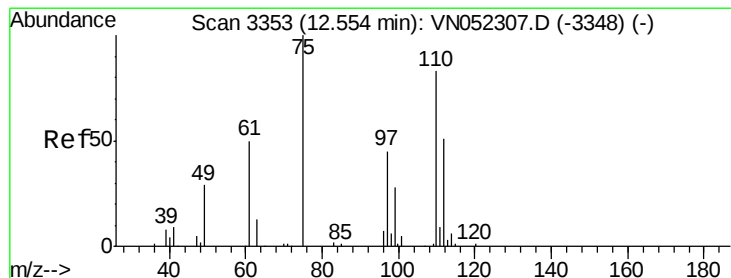
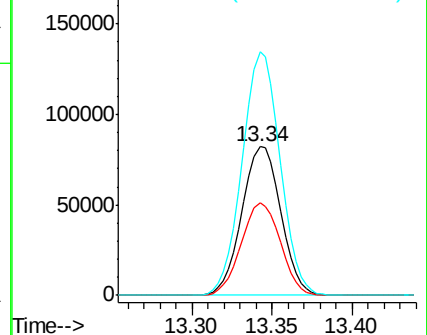
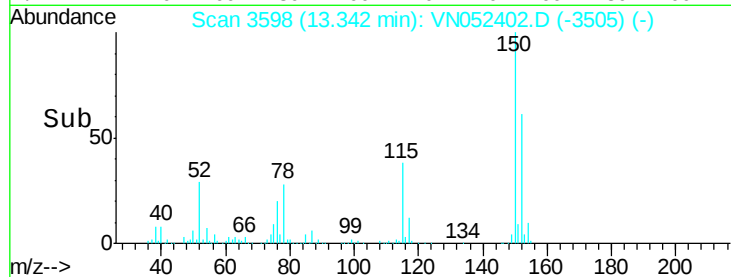
150 159.1 0.0 348.2



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: 44.76 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052402.D

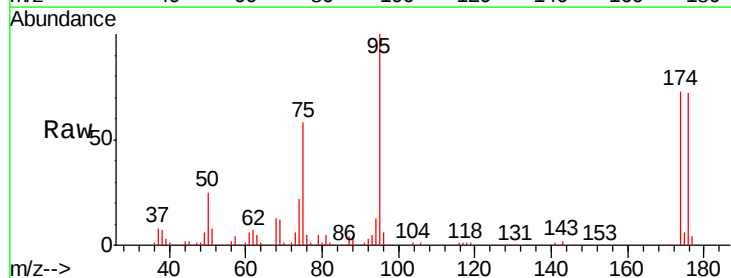
Acq: 20 Nov 2018 12:52

Tgt Ion: 75 Resp: 103850

Ion Ratio Lower Upper

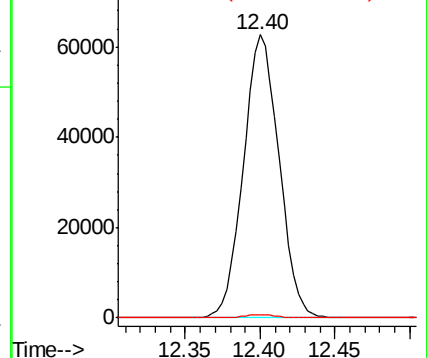
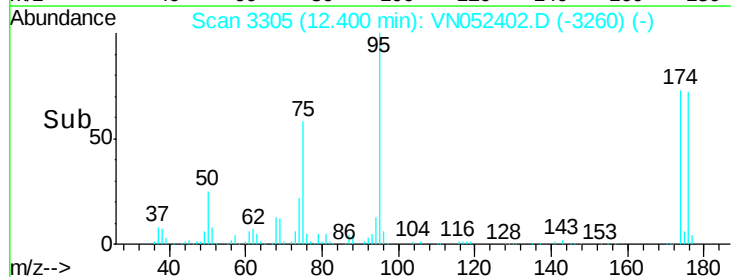
75 100

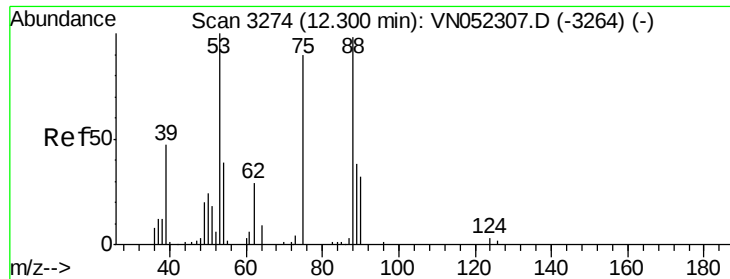
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 145.16 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052402.D

Acq: 20 Nov 2018 12:52

Instrument :

MSVOA_N

ClientSampled :

PB114954TB

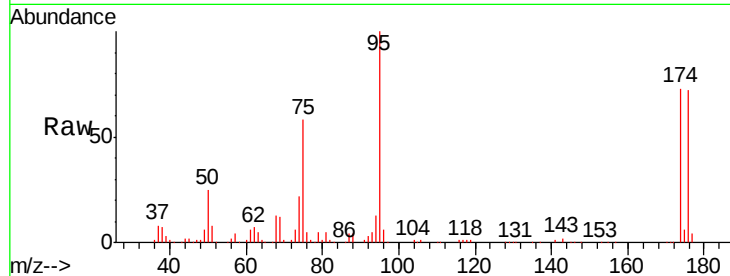
Tgt Ion: 75 Resp: 103850

Ion Ratio Lower Upper

75 100

53 0.1 90.2 135.2#

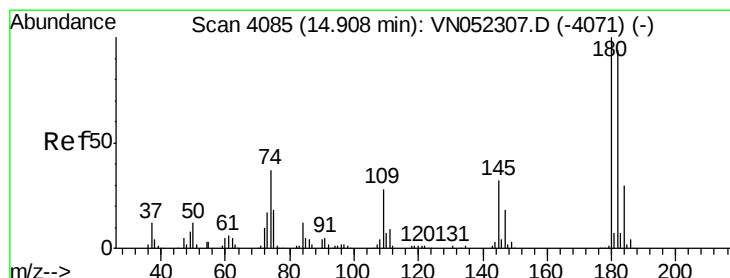
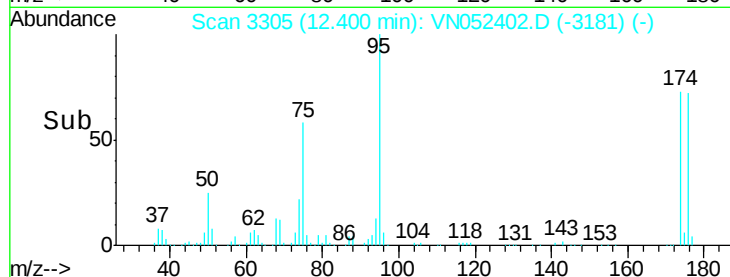
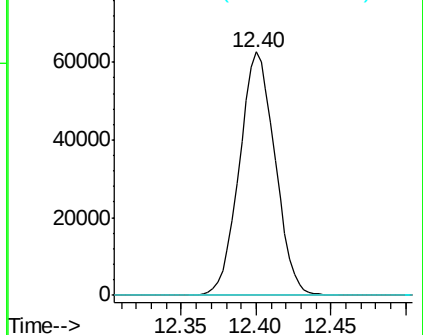
89 0.0 35.4 53.0#



Abundance Ion 74.90 (74.60 to 75.60): VN052307.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN052307.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN052307.D (-3264) (-)



#93

1,2,4-Trichlorobenzene

Concen: 2.64 ug/l

RT: 14.90 min Scan# 4084

Delta R.T. -0.00 min

Lab File: VN052402.D

Acq: 20 Nov 2018 12:52

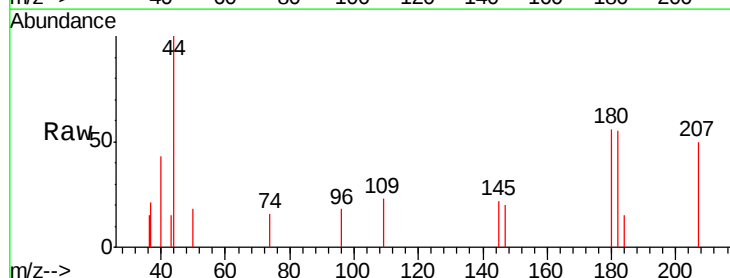
Tgt Ion:180 Resp: 829

Ion Ratio Lower Upper

180 100

182 116.9 47.6 142.9

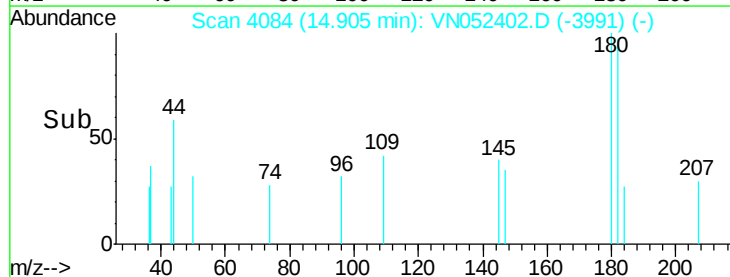
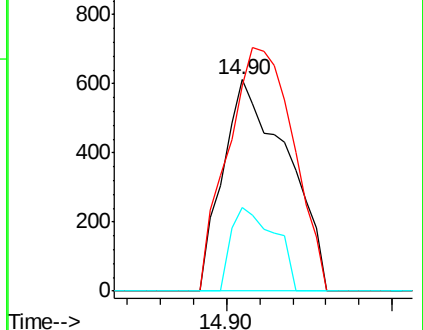
145 26.8 15.5 46.5

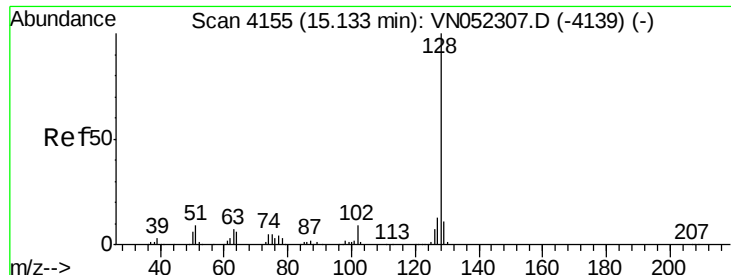


Abundance Ion 179.80 (179.50 to 180.50): VN052307.D (-4071) (-)

Ion 181.80 (181.50 to 182.50): VN052307.D (-4071) (-)

Ion 144.80 (144.50 to 145.50): VN052307.D (-4071) (-)





#95

Naphthalene

Concen: 3.09 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN052402.D

Acq: 20 Nov 2018 12:52

Instrument :

MSVOA_N

ClientSampleId :

PB114954TB

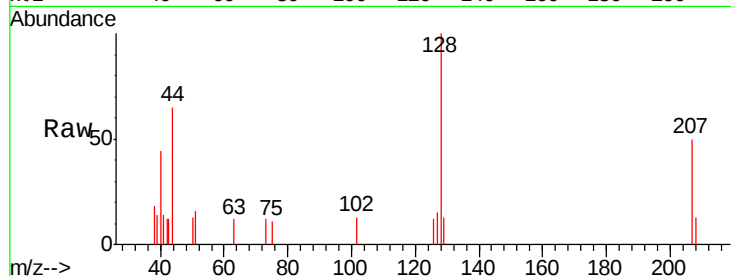
Tgt Ion:128 Resp: 2468

Ion Ratio Lower Upper

128 100

127 6.0 10.4 15.6#

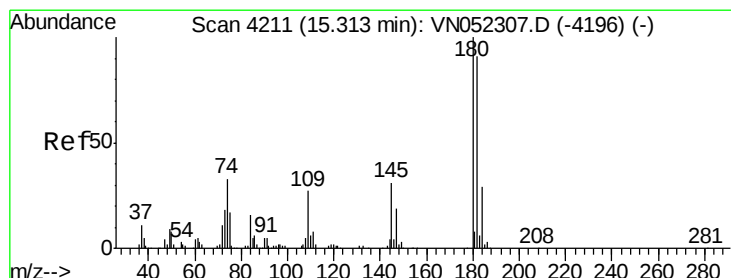
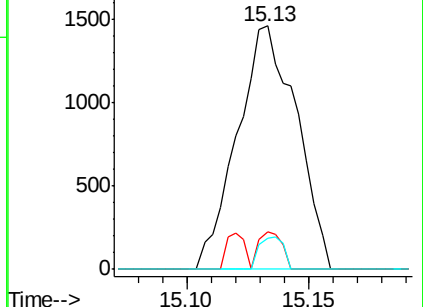
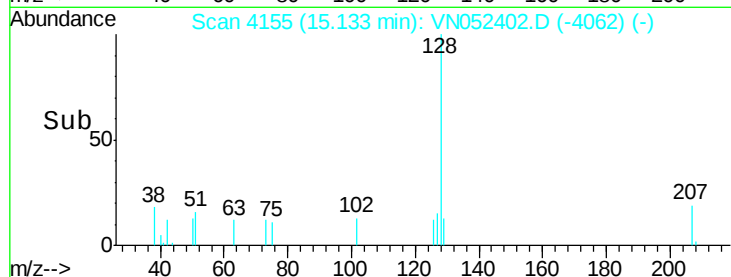
129 5.4 8.6 13.0#



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: 0.52 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN052402.D

Acq: 20 Nov 2018 12:52

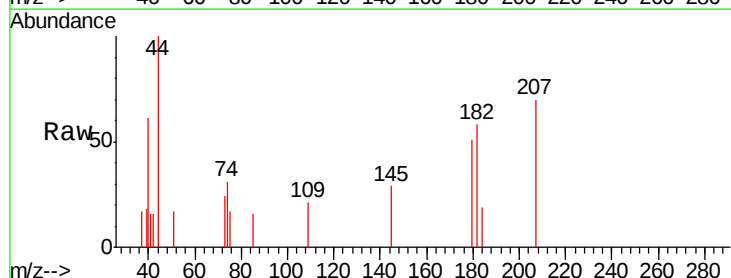
Tgt Ion:180 Resp: 868

Ion Ratio Lower Upper

180 100

182 115.8 46.5 139.3

145 35.7 16.4 49.2



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

