

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN122718\
 Data File : VN053204.D
 Acq On : 27 Dec 2018 11:30
 Operator : MD\SY
 Sample : J6571-03 50X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 30061

Quant Time: Dec 28 00:47:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1193292	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1832570	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1614934	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	615519	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	587147	48.49	ug/l	0.00
Spiked Amount			Recovery	=	96.98%	
35) Dibromofluoromethane	7.59	113	517172	61.78	ug/l	0.00
Spiked Amount			Recovery	=	123.56%	
50) Toluene-d8	10.09	98	2237397	49.79	ug/l	0.00
Spiked Amount			Recovery	=	99.58%	
62) 4-Bromofluorobenzene	12.40	95	722541	45.80	ug/l	0.00
Spiked Amount			Recovery	=	91.60%	

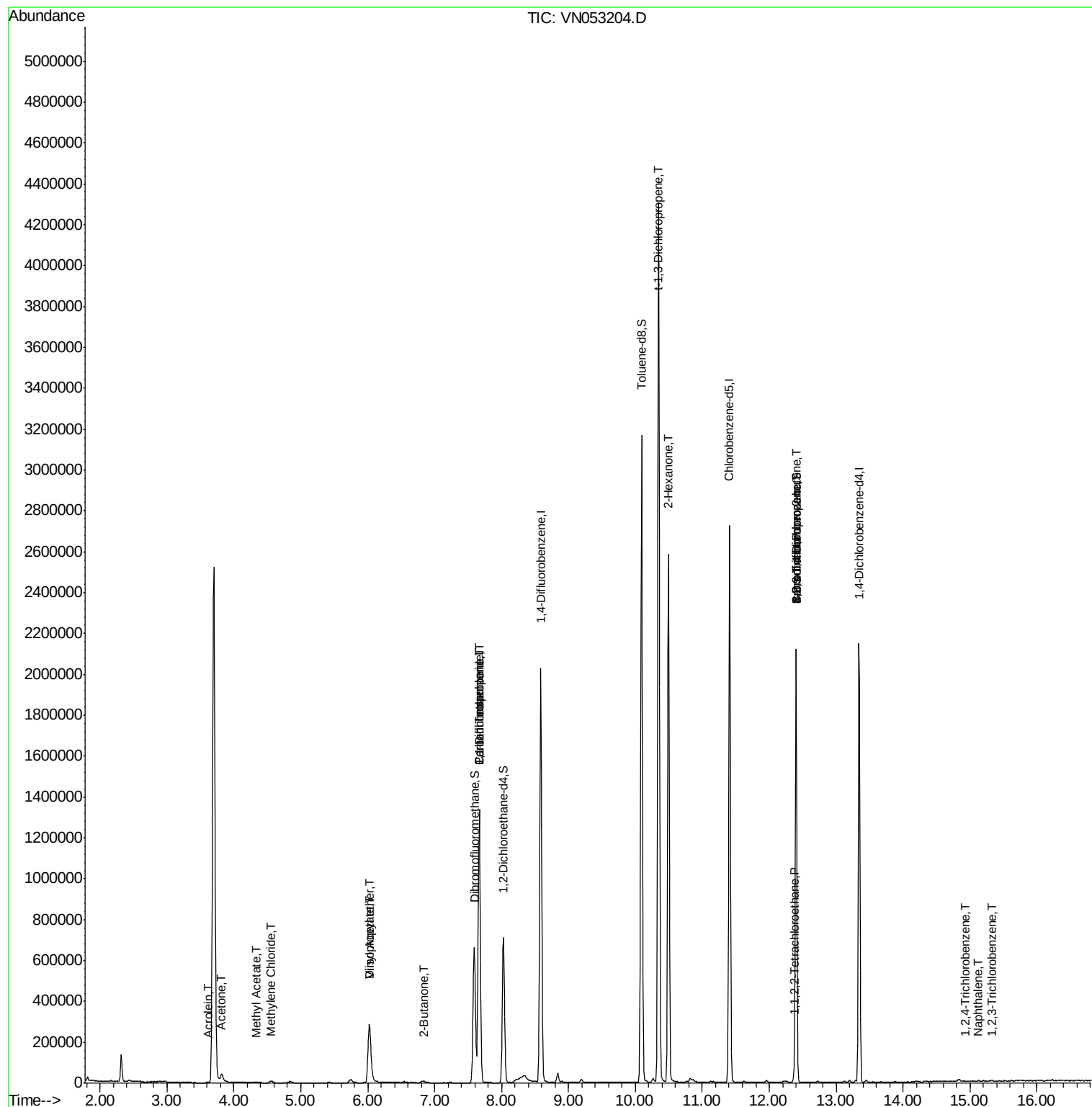
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.62	56	2687	4.011	ug/l #	14
16) Acetone	3.82	43	58823	24.775	ug/l #	72
18) Methyl Acetate	4.32	43	1558	1.134	ug/l	97
20) Methylene Chloride	4.55	84	6894	0.532	ug/l	93
22) Diisopropyl ether	6.03	45	24463	0.651	ug/l #	1
23) Vinyl Acetate	6.02	43	53821	2.489	ug/l #	73
25) 2-Butanone	6.85	43	4198	1.054	ug/l #	89
31) Cyclohexane	7.67	56	18660	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	78620	4.470	ug/l #	48
38) Carbon Tetrachloride	7.67	117	100895	6.258	ug/l #	16
43) Isopropyl Acetate	8.24	43	17836	Below Cal	#	53
53) t-1,3-Dichloropropene	10.35	75	8449	0.476	ug/l #	52
59) 2-Hexanone	10.49	43	185535	28.838	ug/l	90
71) Bromoform	12.40	173	4404	0.490	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.36	83	10538	1.115	ug/l #	32
76) 1,2,3-Trichloropropane	12.40	75	336466	32.472	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	336466	104.662	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.92	180	426	0.634	ug/l	87
95) Naphthalene	15.14	128	2145	1.233	ug/l #	84
96) 1,2,3-Trichlorobenzene	15.32	180	378	0.546	ug/l	98

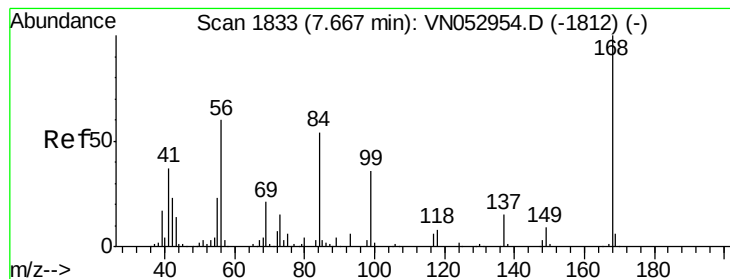
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN053204.D

Acq: 27 Dec 2018 11:30

Instrument :

MSVOA_N

ClientSampleId :

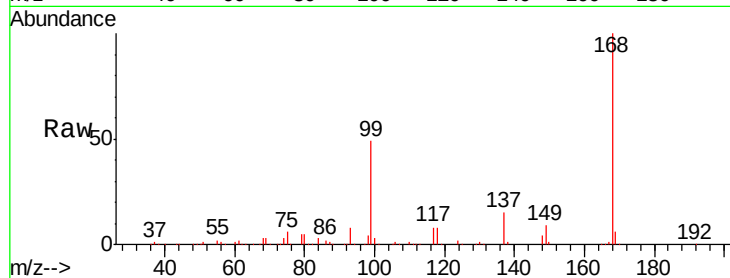
30061

Tgt Ion:168 Resp: 1193292

Ion Ratio Lower Upper

168 100

99 48.9 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

600000

500000

400000

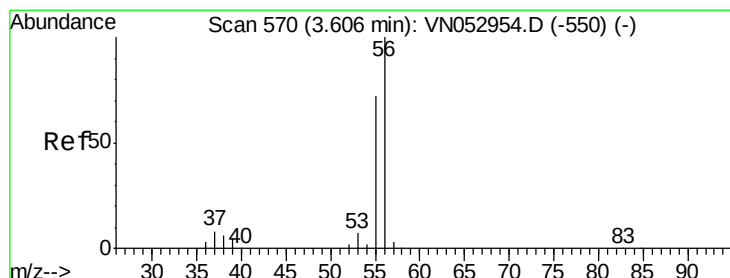
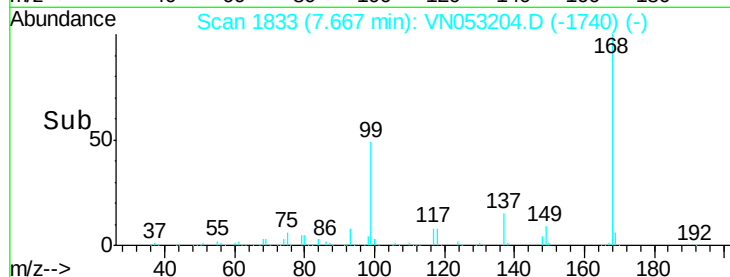
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 4.011 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN053204.D

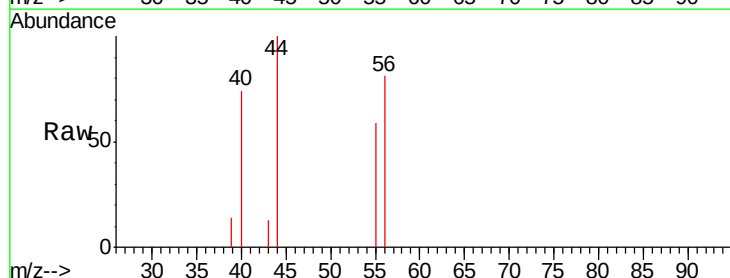
Acq: 27 Dec 2018 11:30

Tgt Ion: 56 Resp: 2687

Ion Ratio Lower Upper

56 100

55 0.0 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

3.62

30000

25000

20000

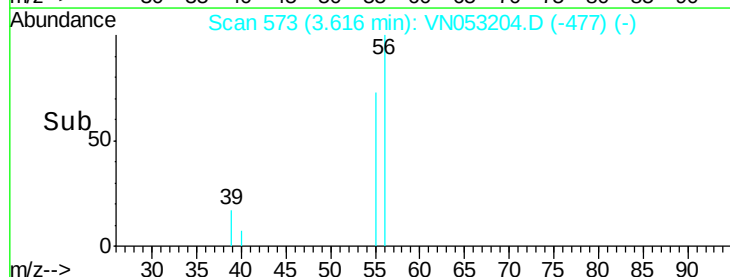
15000

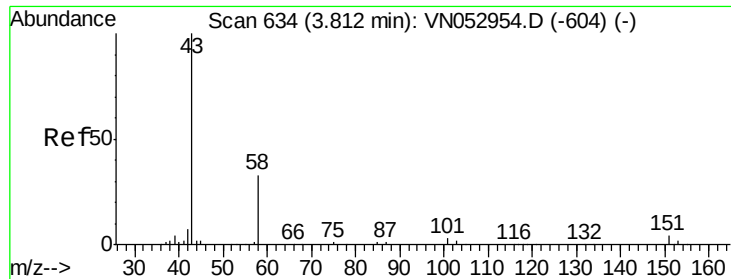
10000

5000

0

Time-->





#16

Acetone

Concen: 24.775 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN053204.D

Acq: 27 Dec 2018 11:30

Instrument :

MSVOA_N

ClientSampled :

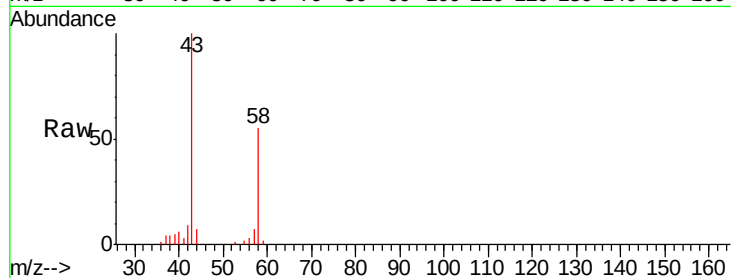
30061

Tgt Ion: 43 Resp: 58823

Ion Ratio Lower Upper

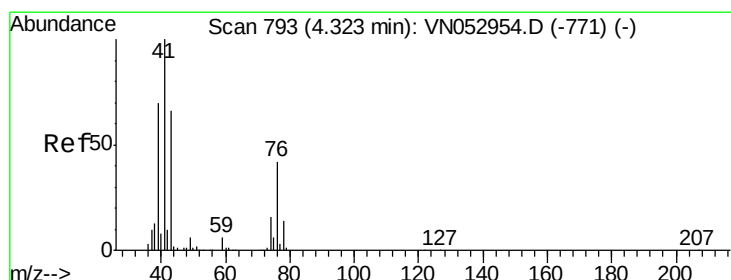
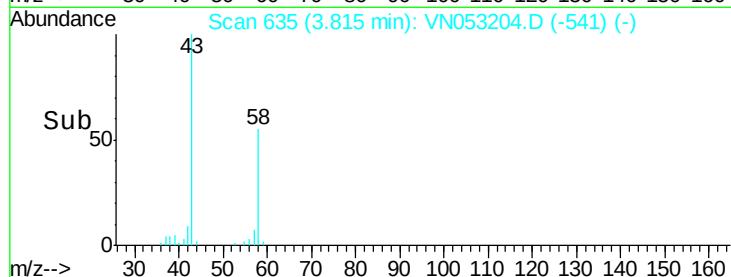
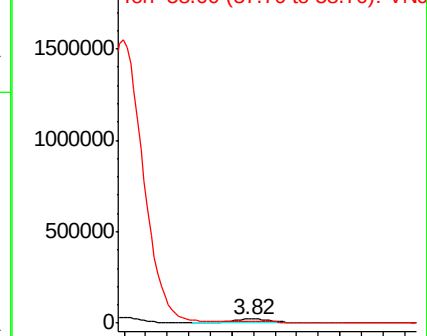
43 100

58 47.1 25.4 38.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.134 ug/l

RT: 4.32 min Scan# 793

Delta R.T. 0.00 min

Lab File: VN053204.D

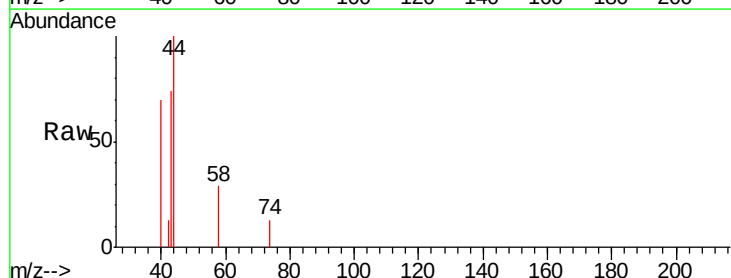
Acq: 27 Dec 2018 11:30

Tgt Ion: 43 Resp: 1558

Ion Ratio Lower Upper

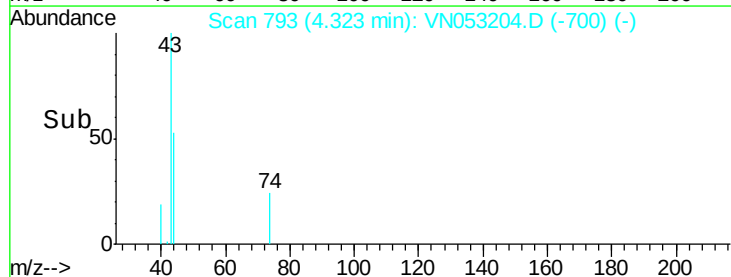
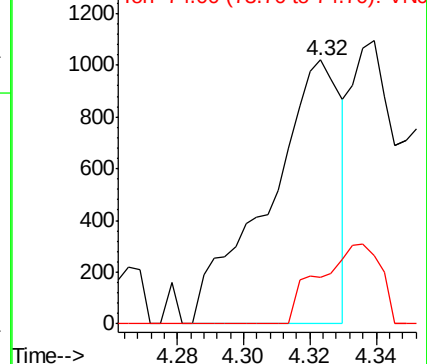
43 100

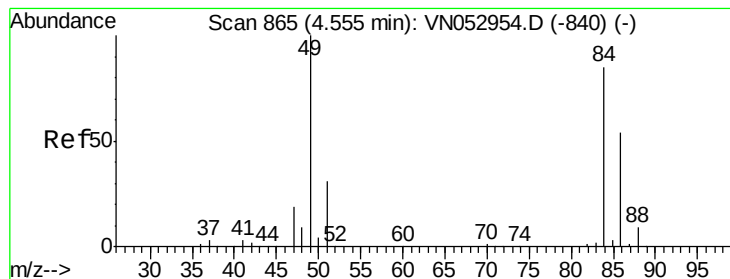
74 25.4 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#20

Methylene Chloride

Concen: 0.532 ug/l

RT: 4.55 min Scan# 865

Delta R.T. 0.00 min

Lab File: VN053204.D

Acq: 27 Dec 2018 11:30

Instrument :

MSVOA_N

ClientSampleId :

30061

Tgt Ion: 84 Resp: 6894

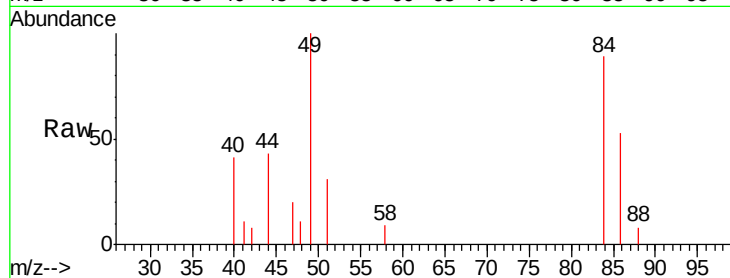
Ion Ratio Lower Upper

84 100

49 112.6 96.8 145.2

51 34.5 29.9 44.9

86 59.9 51.8 77.6

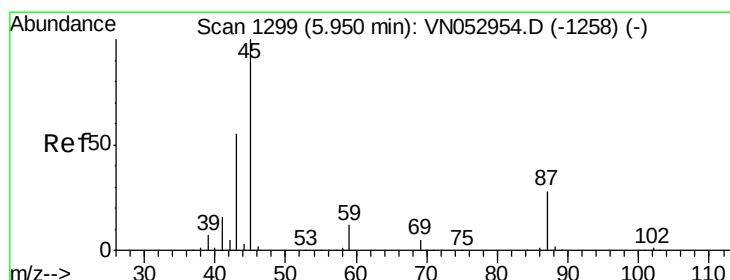
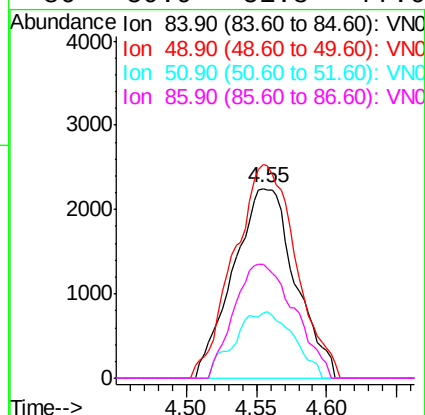
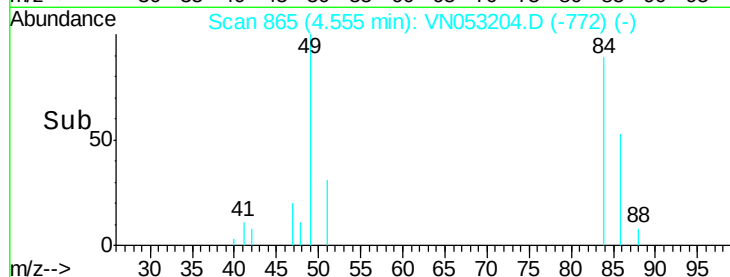


Abundance Ion 83.90 (83.60 to 84.60): VN0

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



#22

Diisopropyl ether

Concen: 0.651 ug/l

RT: 6.03 min Scan# 1324

Delta R.T. 0.08 min

Lab File: VN053204.D

Acq: 27 Dec 2018 11:30

Tgt Ion: 45 Resp: 24463

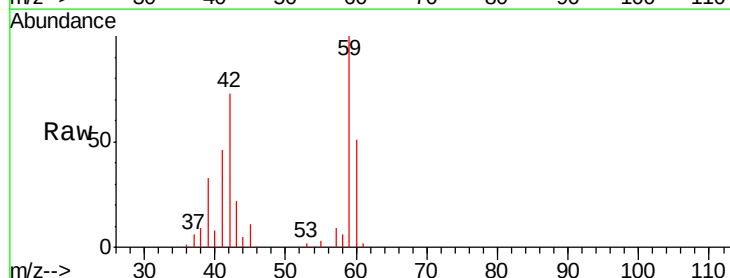
Ion Ratio Lower Upper

45 100

43 205.4 45.5 68.3#

87 0.0 22.0 33.0#

59 919.0 9.4 14.0#

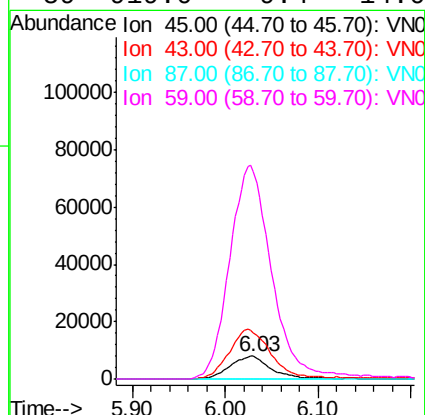
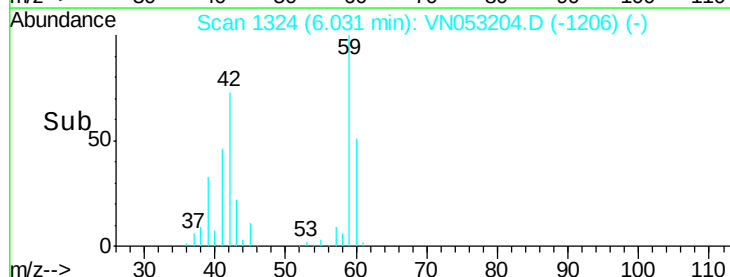


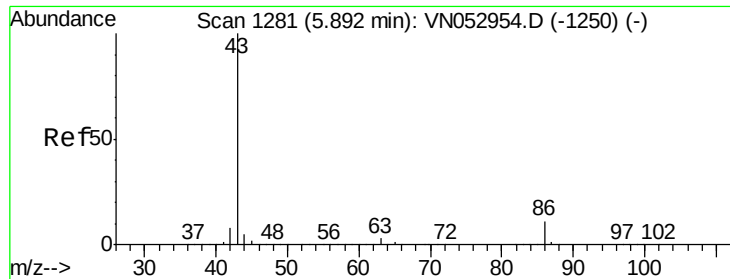
Abundance Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0

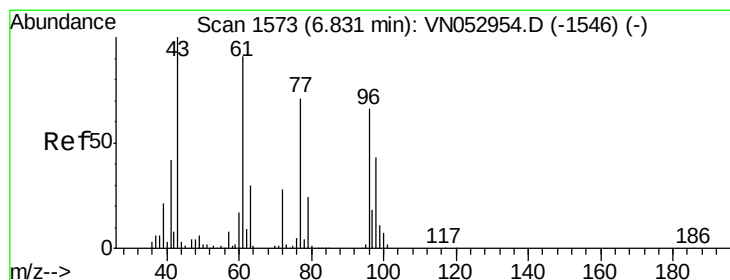
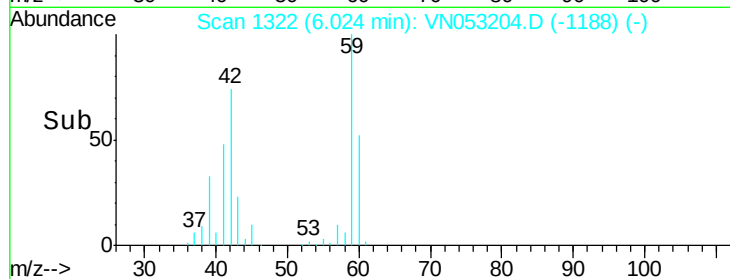
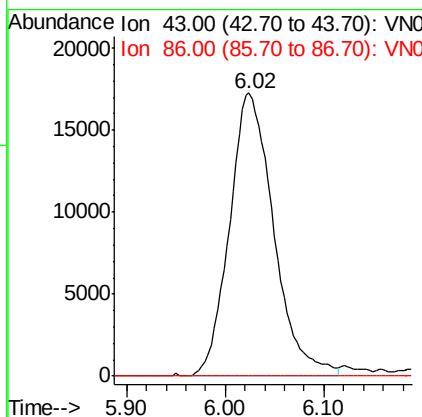
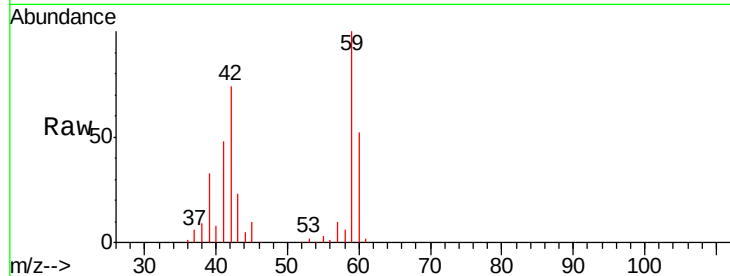




#23
 Vinyl Acetate
 Concen: 2.489 ug/l
 RT: 6.02 min Scan# 1322
 Delta R.T. 0.13 min
 Lab File: VN053204.D
 Acq: 27 Dec 2018 11:30

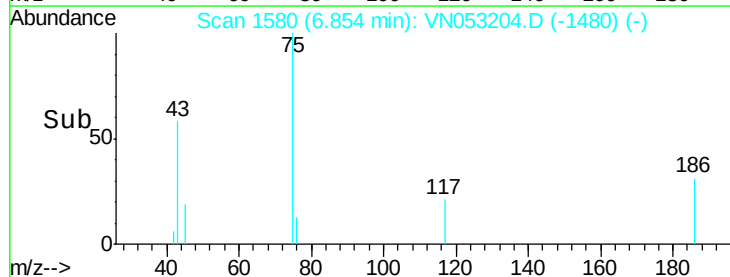
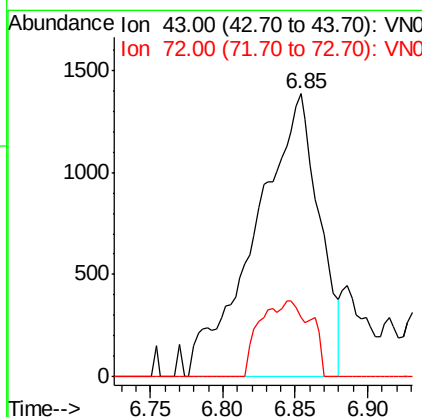
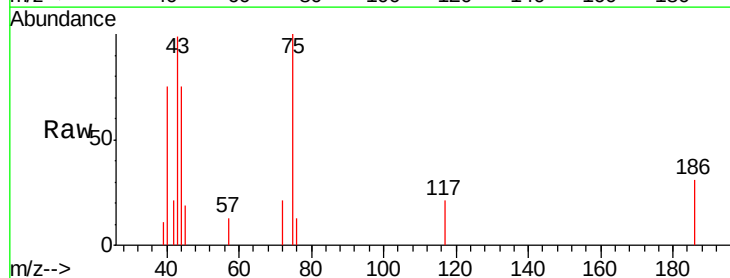
Instrument :
 MSVOA_N
 ClientSampleId :
 30061

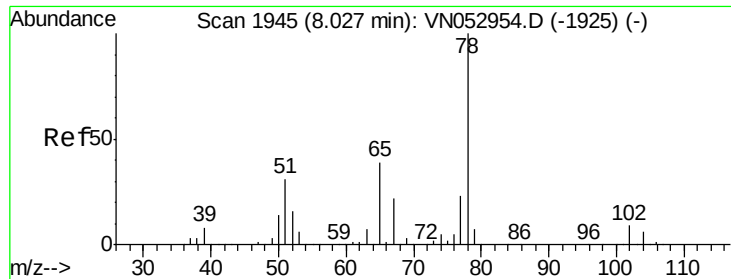
Tgt Ion: 43 Resp: 53821
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.1 12.1#



#25
 2-Butanone
 Concen: 1.054 ug/l
 RT: 6.85 min Scan# 1580
 Delta R.T. 0.02 min
 Lab File: VN053204.D
 Acq: 27 Dec 2018 11:30

Tgt Ion: 43 Resp: 4198
 Ion Ratio Lower Upper
 43 100
 72 20.8 21.0 31.6#

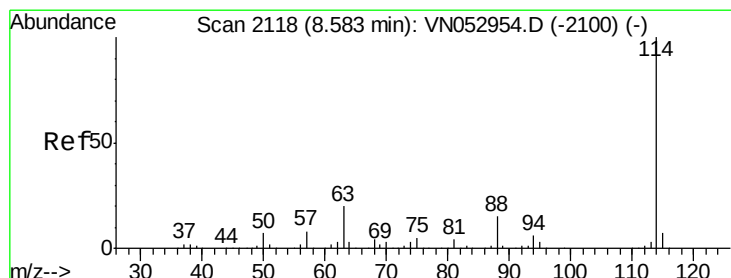
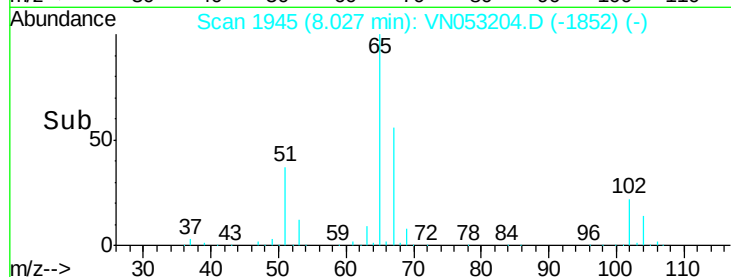
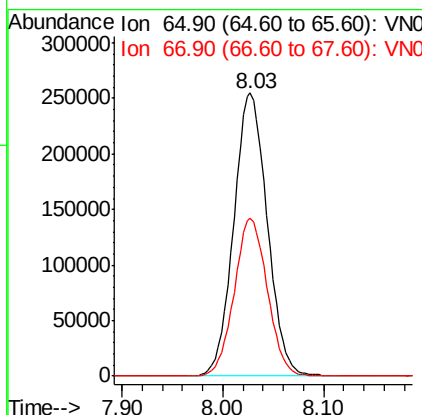
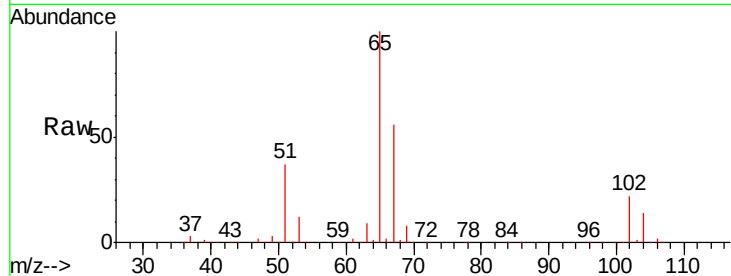




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053204.D
 Acq: 27 Dec 2018 11:30

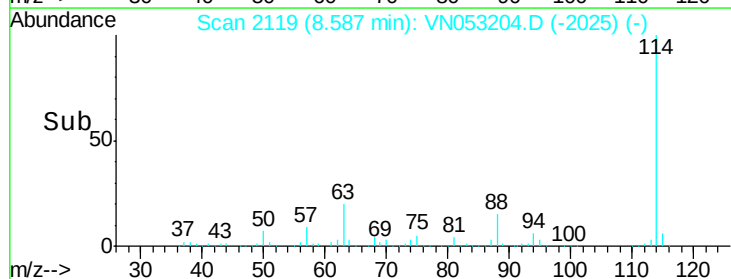
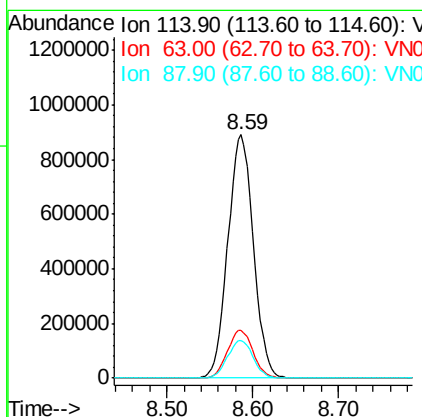
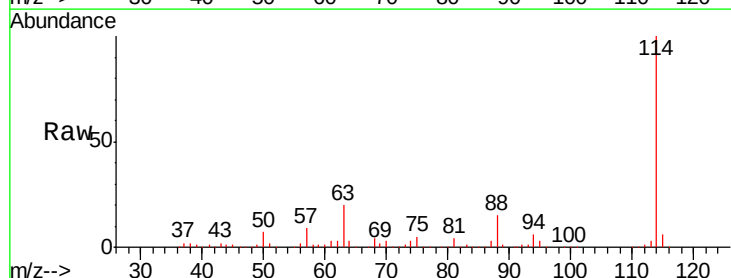
Instrument :
 MSVOA_N
 ClientSampleId :
 30061

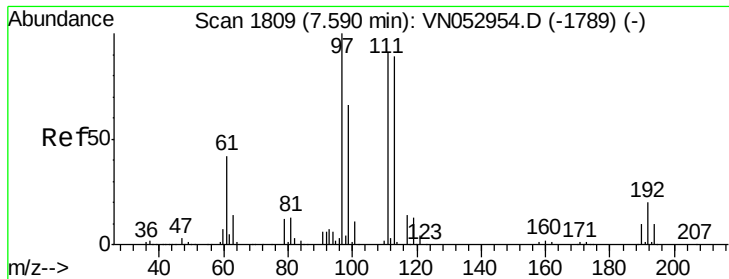
Tgt Ion: 65 Resp: 587147
 Ion Ratio Lower Upper
 65 100
 67 55.2 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053204.D
 Acq: 27 Dec 2018 11:30

Tgt Ion: 114 Resp: 1832570
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 39.8
 88 15.4 0.0 31.0

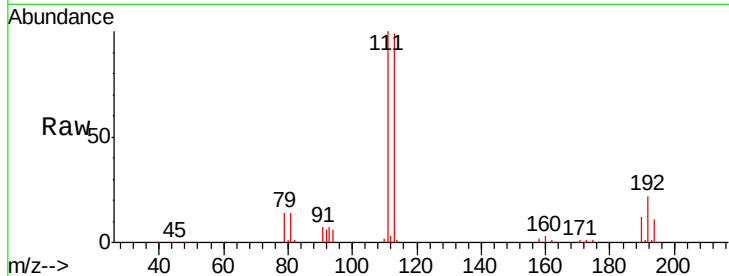




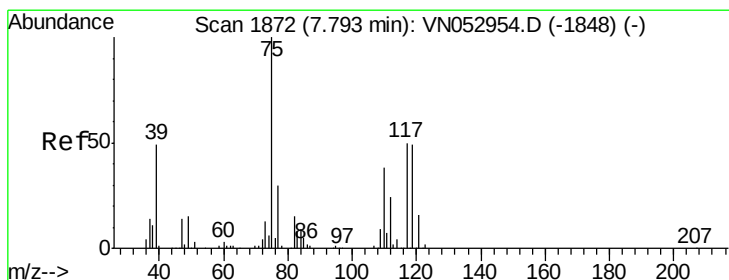
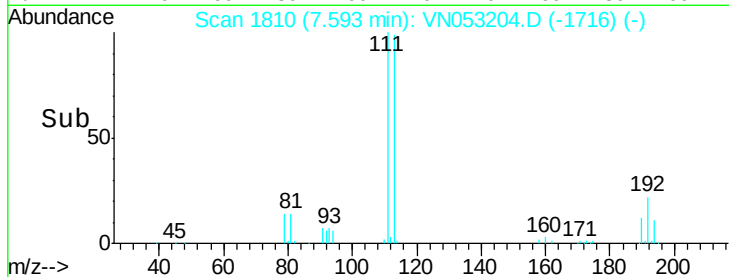
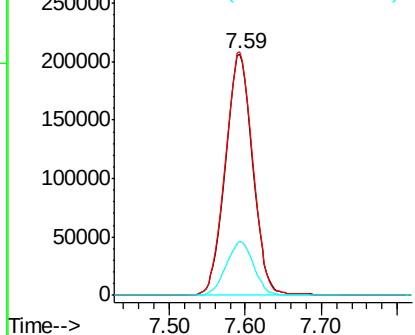
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN053204.D
Acq: 27 Dec 2018 11:30

Instrument :
MSVOA_N
ClientSampled :
30061

Tgt Ion:113 Resp: 517172
Ion Ratio Lower Upper
113 100
111 100.9 83.0 124.4
192 22.4 17.5 26.3

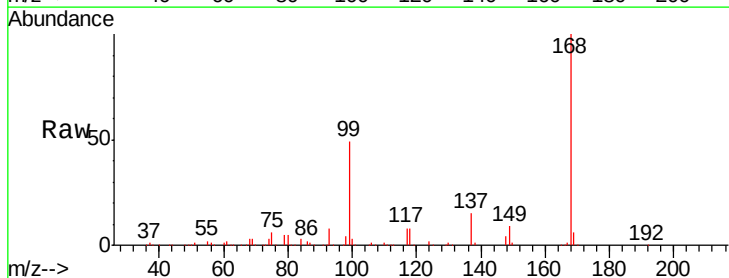


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

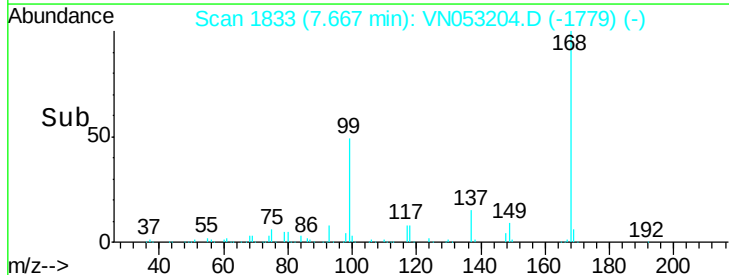
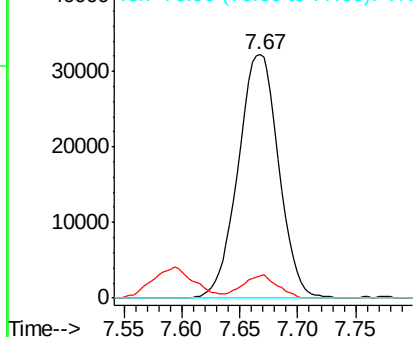


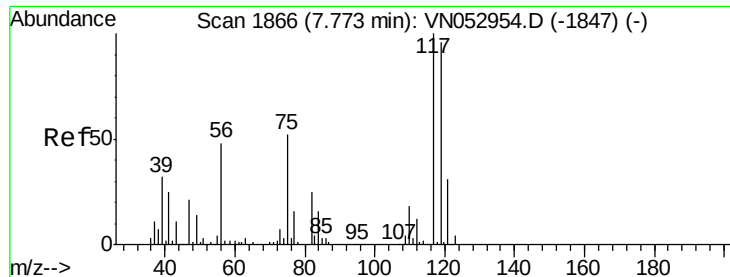
#36
1,1-Dichloropropene
Concen: 4.470 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.13 min
Lab File: VN053204.D
Acq: 27 Dec 2018 11:30

Tgt Ion: 75 Resp: 78620
Ion Ratio Lower Upper
75 100
110 8.2 18.2 54.6#
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: 6.258 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053204.D

Acq: 27 Dec 2018 11:30

Instrument :

MSVOA_N

ClientSampled :

30061

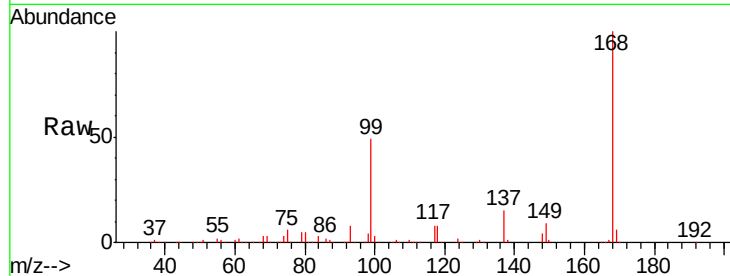
Tgt Ion:117 Resp: 100895

Ion Ratio Lower Upper

117 100

119 5.6 77.1 115.7#

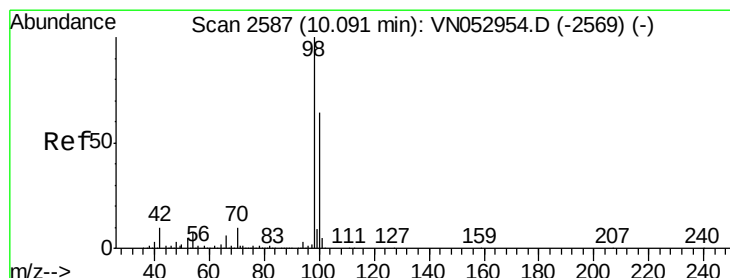
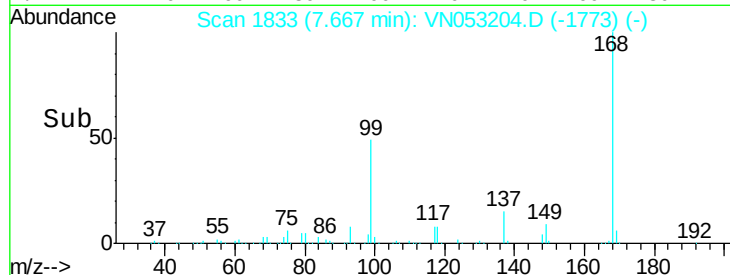
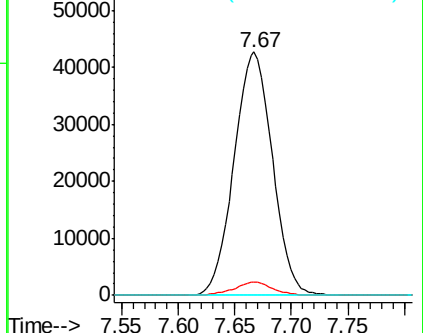
121 0.0 24.9 37.3#



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



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053204.D

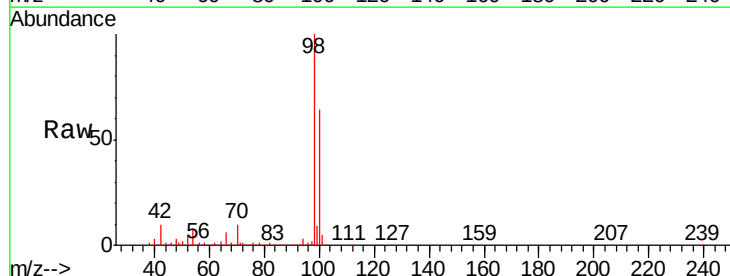
Acq: 27 Dec 2018 11:30

Tgt Ion: 98 Resp: 2237397

Ion Ratio Lower Upper

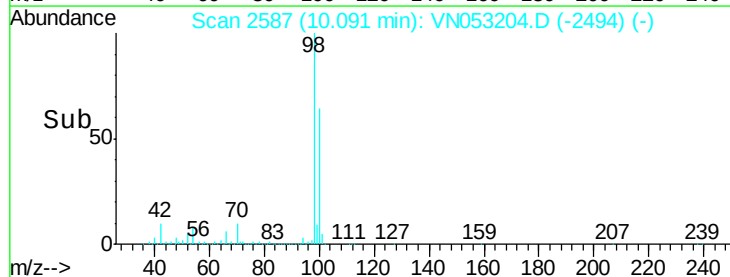
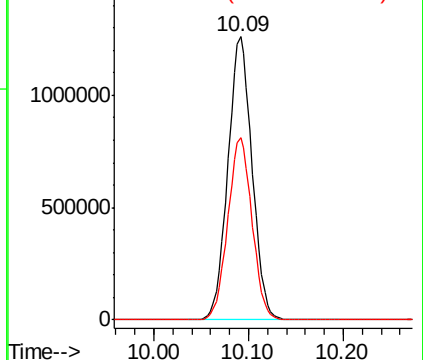
98 100

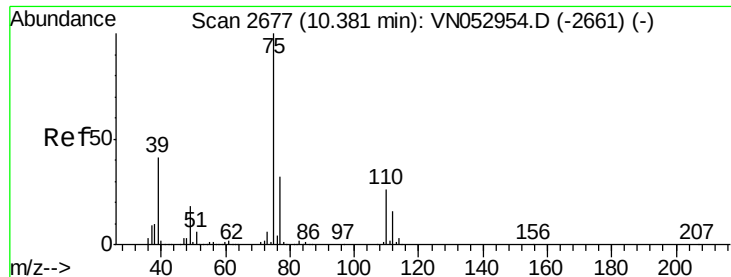
100 64.3 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

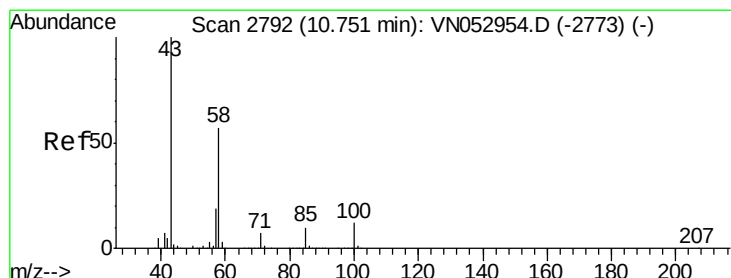
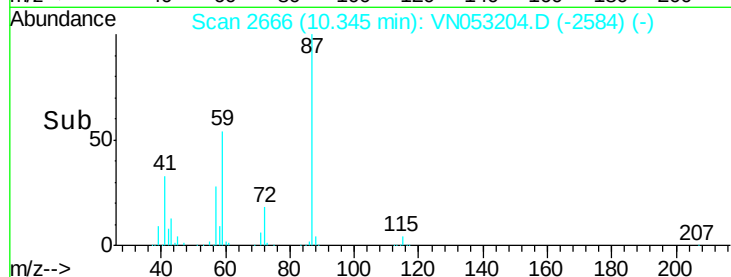
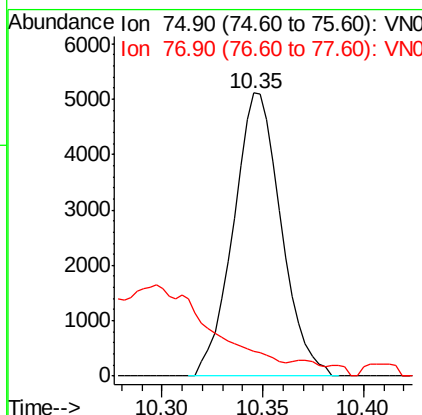
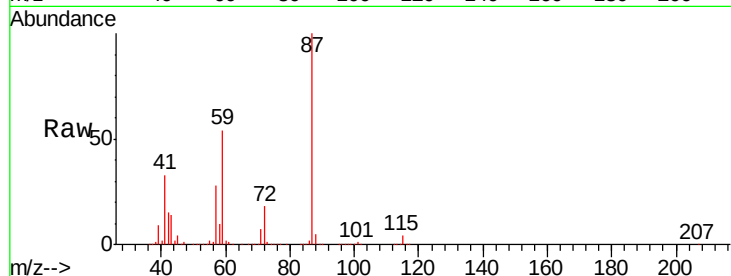




#53
t-1,3-Dichloropropene
Concen: 0.476 ug/l
RT: 10.35 min Scan# 2666
Delta R.T. -0.04 min
Lab File: VN053204.D
Acq: 27 Dec 2018 11:30

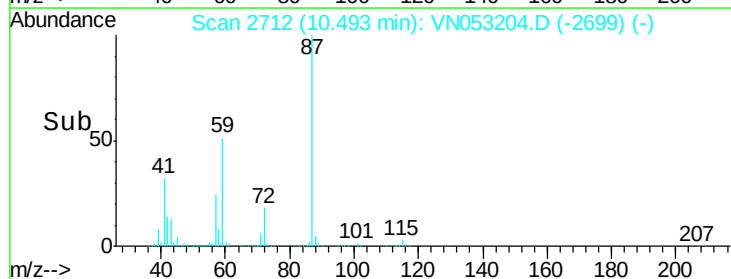
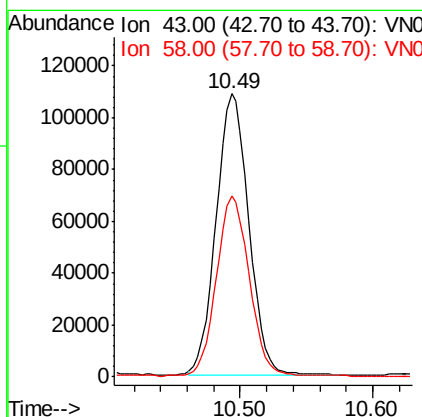
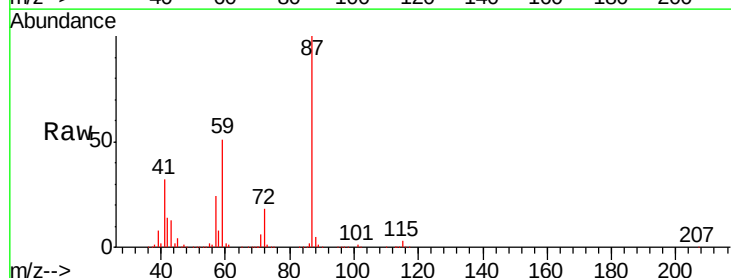
Instrument :
MSVOA_N
ClientSampled :
30061

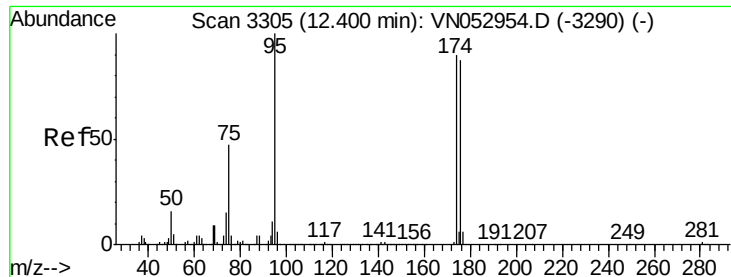
Tgt Ion: 75 Resp: 8449
Ion Ratio Lower Upper
75 100
77 5.1 25.6 38.4#



#59
2-Hexanone
Concen: 28.838 ug/l
RT: 10.49 min Scan# 2712
Delta R.T. -0.26 min
Lab File: VN053204.D
Acq: 27 Dec 2018 11:30

Tgt Ion: 43 Resp: 185535
Ion Ratio Lower Upper
43 100
58 63.6 28.1 84.3





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN053204.D

Acq: 27 Dec 2018 11:30

Instrument :

MSVOA_N

ClientSampleId :

30061

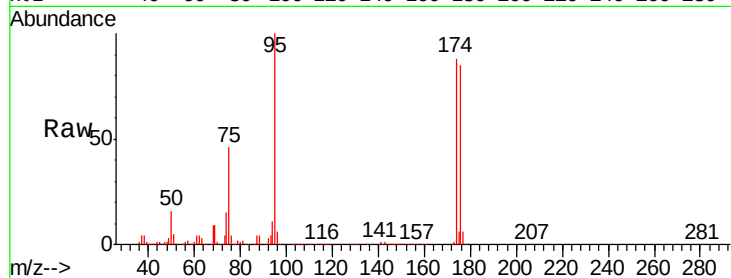
Tgt Ion: 95 Resp: 722541

Ion Ratio Lower Upper

95 100

174 89.6 0.0 178.8

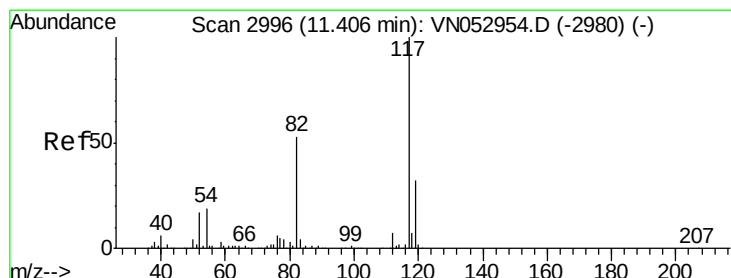
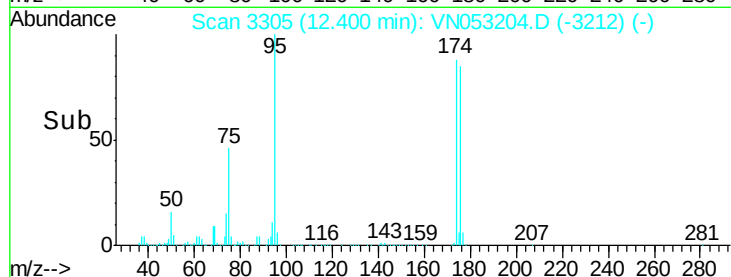
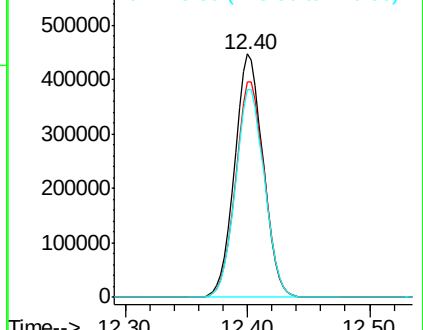
176 86.8 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN053204.D

Acq: 27 Dec 2018 11:30

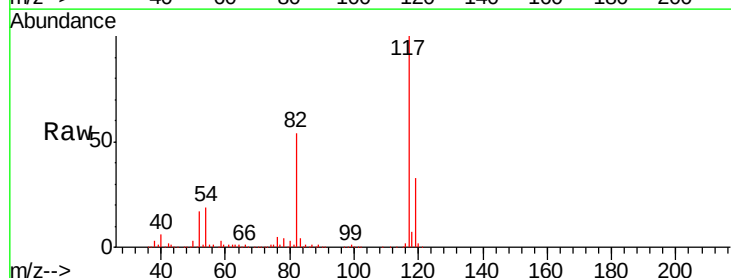
Tgt Ion: 117 Resp: 1614934

Ion Ratio Lower Upper

117 100

82 53.9 42.8 64.2

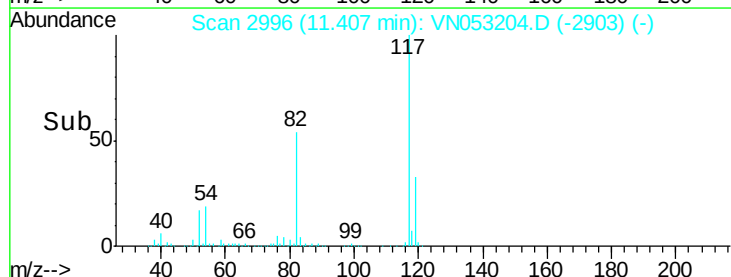
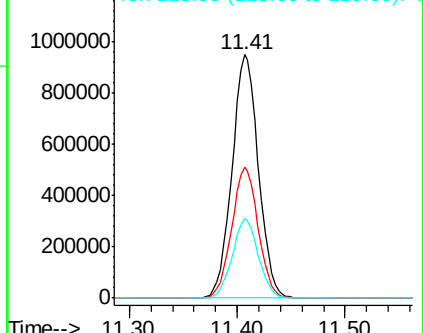
119 32.5 25.5 38.3

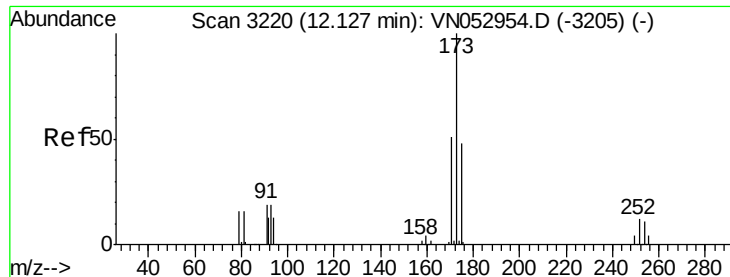


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 0.490 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN053204.D

Acq: 27 Dec 2018 11:30

Instrument :

MSVOA_N

ClientSampleId :

30061

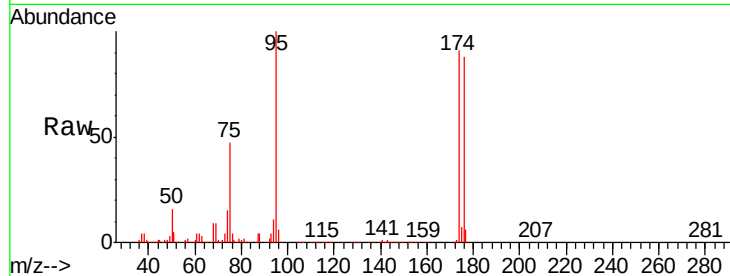
Tgt Ion:173 Resp: 4404

Ion Ratio Lower Upper

173 100

175 945.5 24.3 72.9#

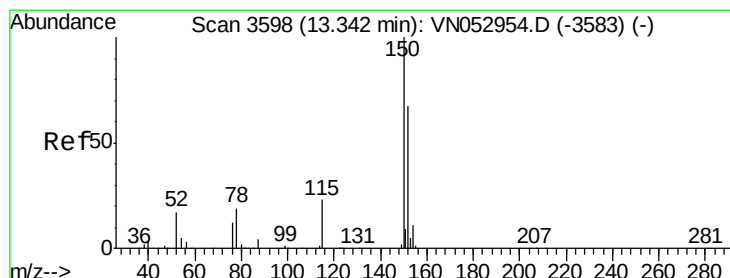
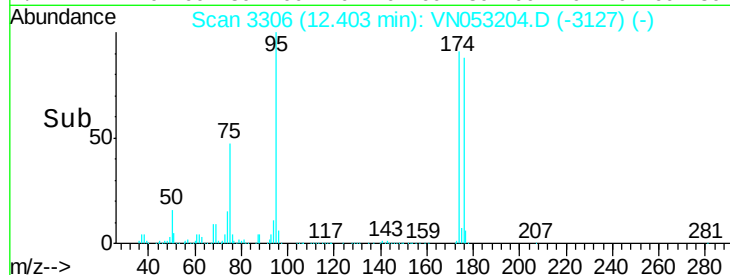
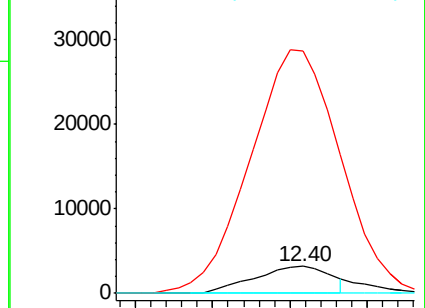
254 0.0 0.1 0.1#



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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053204.D

Acq: 27 Dec 2018 11:30

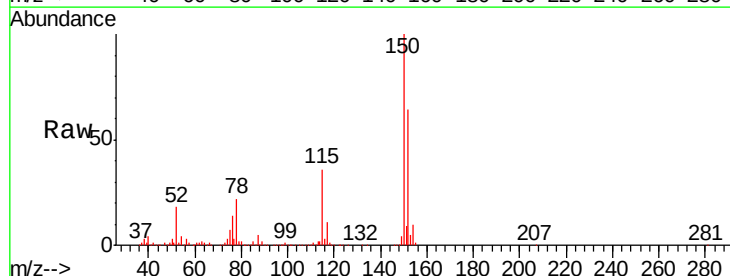
Tgt Ion:152 Resp: 615519

Ion Ratio Lower Upper

152 100

115 56.2 28.3 85.0

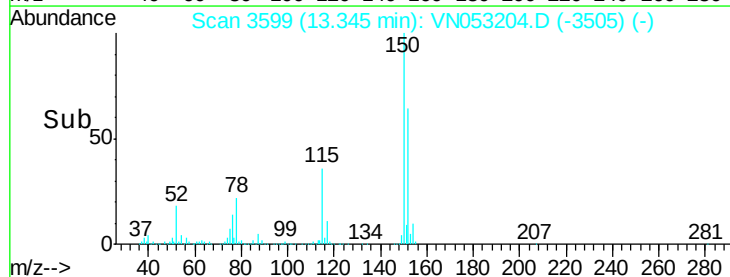
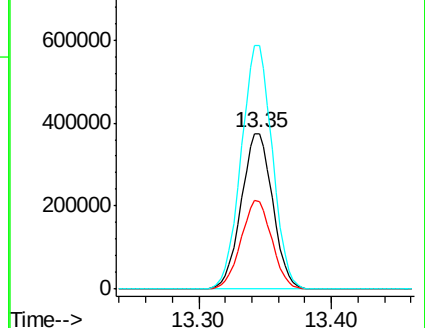
150 155.3 0.0 347.8

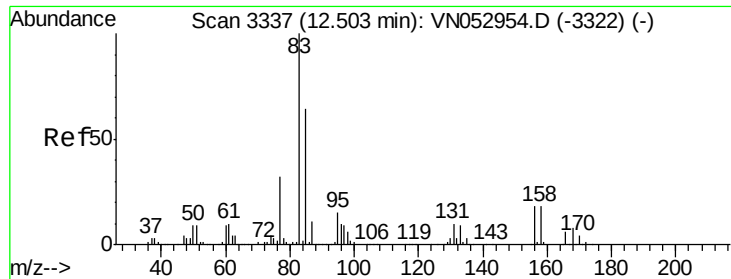


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: 1.115 ug/l

RT: 12.36 min Scan# 3294

Delta R.T. -0.14 min

Lab File: VN053204.D

Acq: 27 Dec 2018 11:30

Instrument :

MSVOA_N

ClientSampleId :

30061

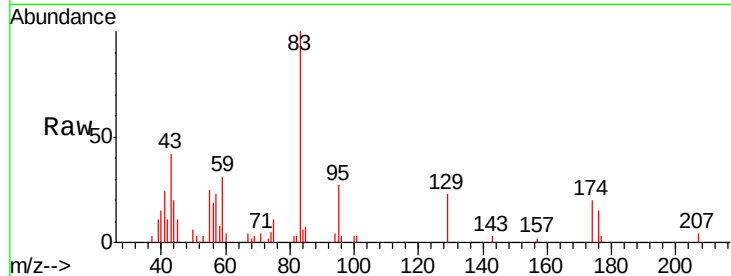
Tgt Ion: 83 Resp: 10538

Ion Ratio Lower Upper

83 100

131 0.0 5.2 15.6#

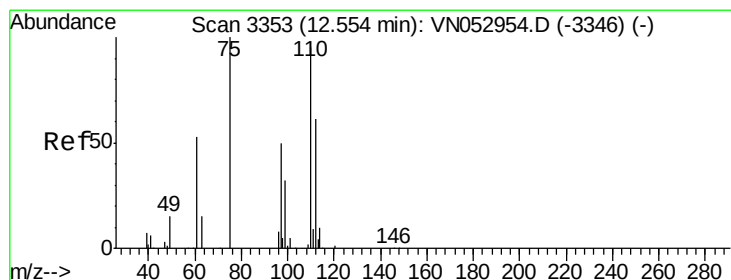
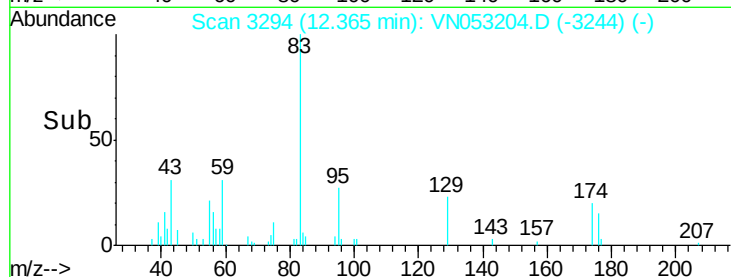
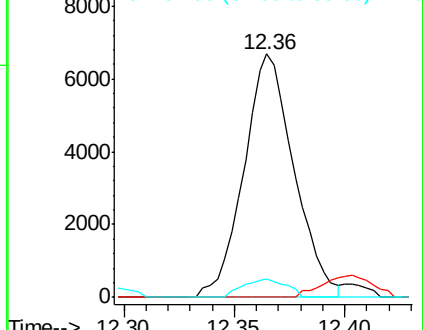
85 6.5 32.4 97.0#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 32.472 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053204.D

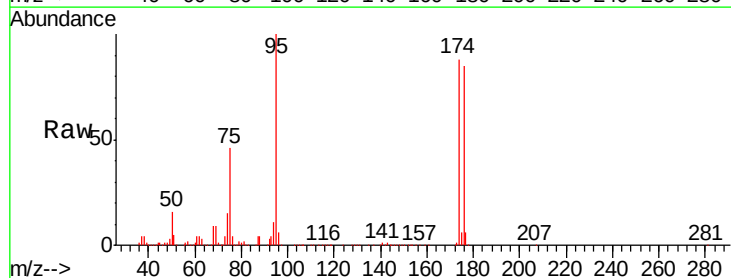
Acq: 27 Dec 2018 11:30

Tgt Ion: 75 Resp: 336466

Ion Ratio Lower Upper

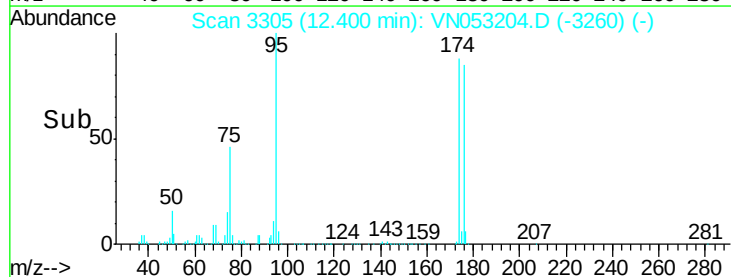
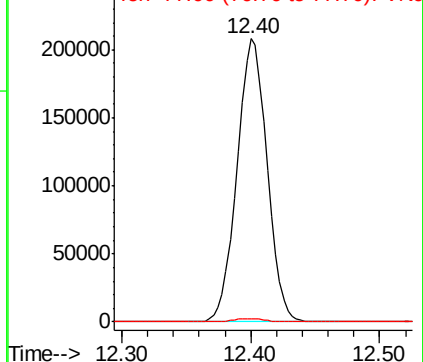
75 100

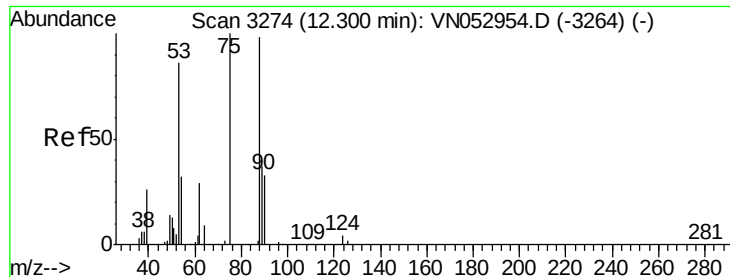
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 104.662 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053204.D

Acq: 27 Dec 2018 11:30

Instrument :

MSVOA_N

ClientSampled :

30061

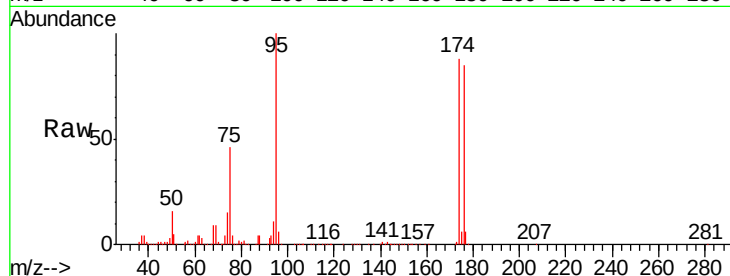
Tgt Ion: 75 Resp: 336466

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

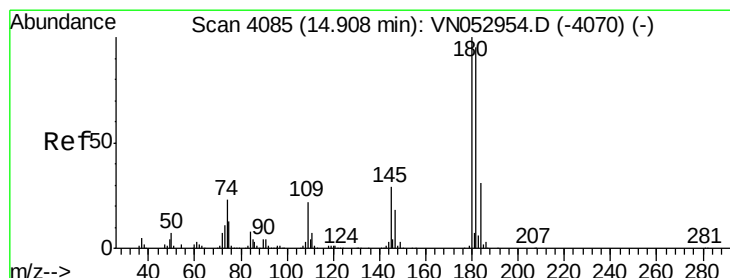
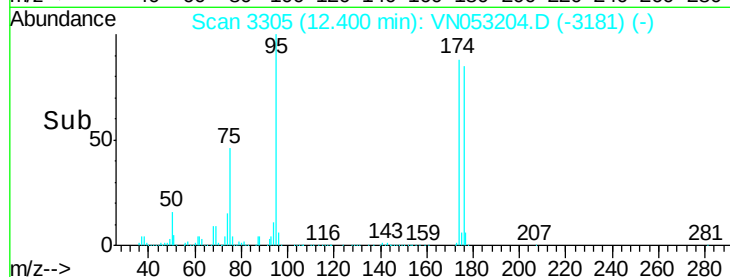
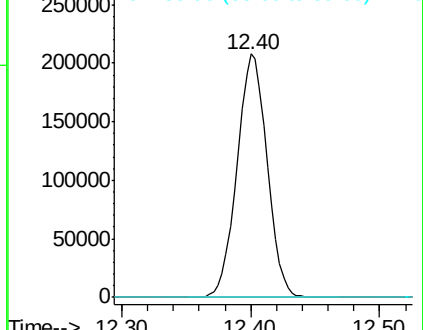
89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VN053204.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN053204.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN053204.D (-3181) (-)



#93

1,2,4-Trichlorobenzene

Concen: 0.634 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.01 min

Lab File: VN053204.D

Acq: 27 Dec 2018 11:30

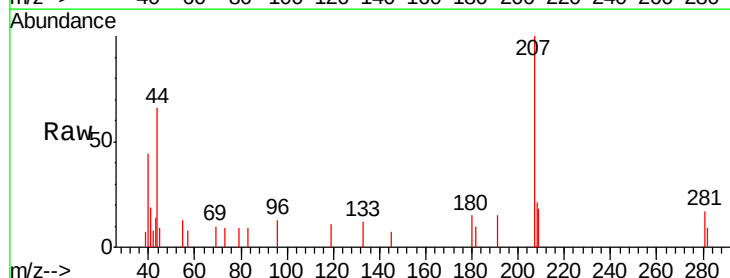
Tgt Ion: 180 Resp: 426

Ion Ratio Lower Upper

180 100

182 109.4 47.8 143.3

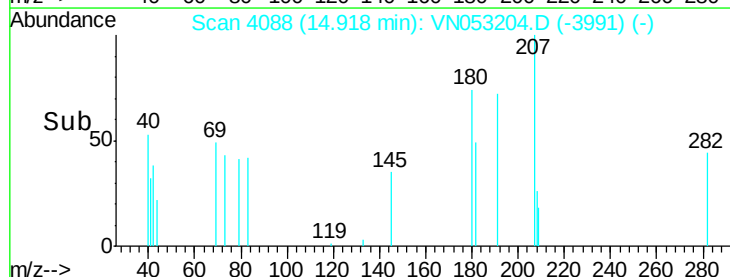
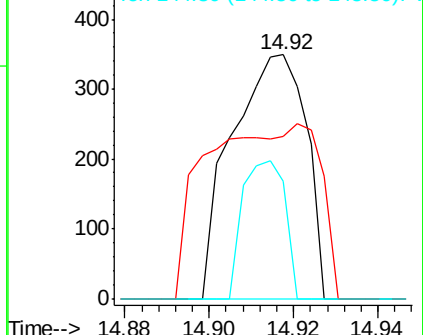
145 32.6 14.2 42.6

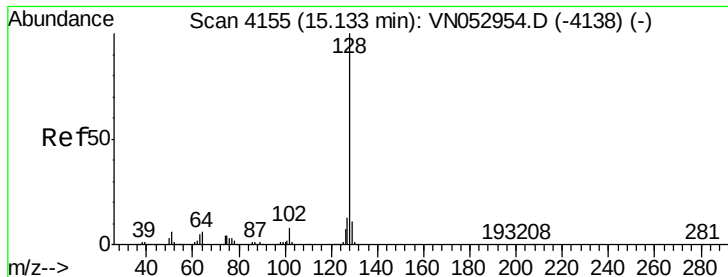


Abundance Ion 179.80 (179.50 to 180.50): VN053204.D (-3991) (-)

Ion 181.80 (181.50 to 182.50): VN053204.D (-3991) (-)

Ion 144.80 (144.50 to 145.50): VN053204.D (-3991) (-)





#95

Naphthalene

Concen: 1.233 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN053204.D

Acq: 27 Dec 2018 11:30

Instrument :

MSVOA_N

ClientSampled :

30061

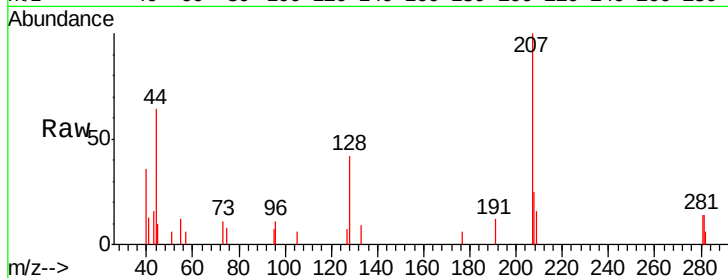
Tgt Ion:128 Resp: 2145

Ion Ratio Lower Upper

128 100

127 9.4 10.2 15.4#

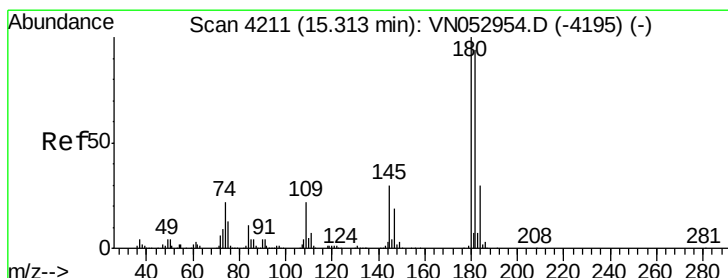
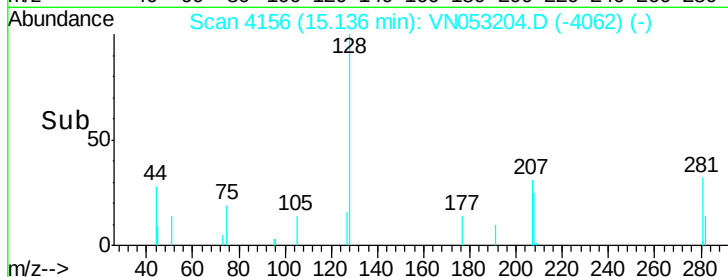
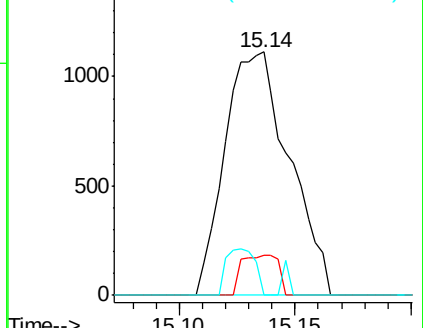
129 1.4 8.6 13.0#



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: 0.546 ug/l

RT: 15.32 min Scan# 4214

Delta R.T. 0.01 min

Lab File: VN053204.D

Acq: 27 Dec 2018 11:30

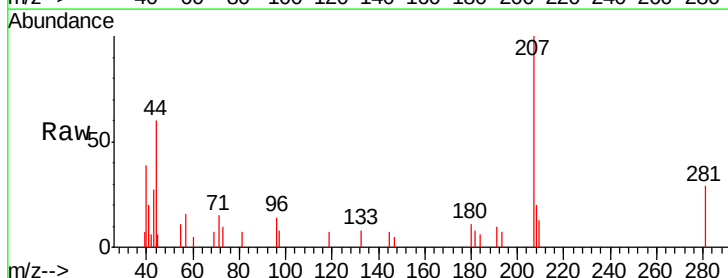
Tgt Ion:180 Resp: 378

Ion Ratio Lower Upper

180 100

182 95.5 47.9 143.7

145 34.7 15.0 45.0



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

