

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112818\
 Data File : VN052540.D
 Acq On : 29 Nov 2018 1:14
 Operator : MD\SY
 Sample : J6086-04DL 20X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 38 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-4DL

Quant Time: Nov 29 02:36:29 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	178252	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	1019060	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	842278	30.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane-d4		8.03	65	360211	29.66	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.87%	
60) 4-Bromofluorobenzene		12.40	95	334639	25.99	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	86.63%	
63) Toluene-d8		10.09	98	1189664	30.46	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.53%	

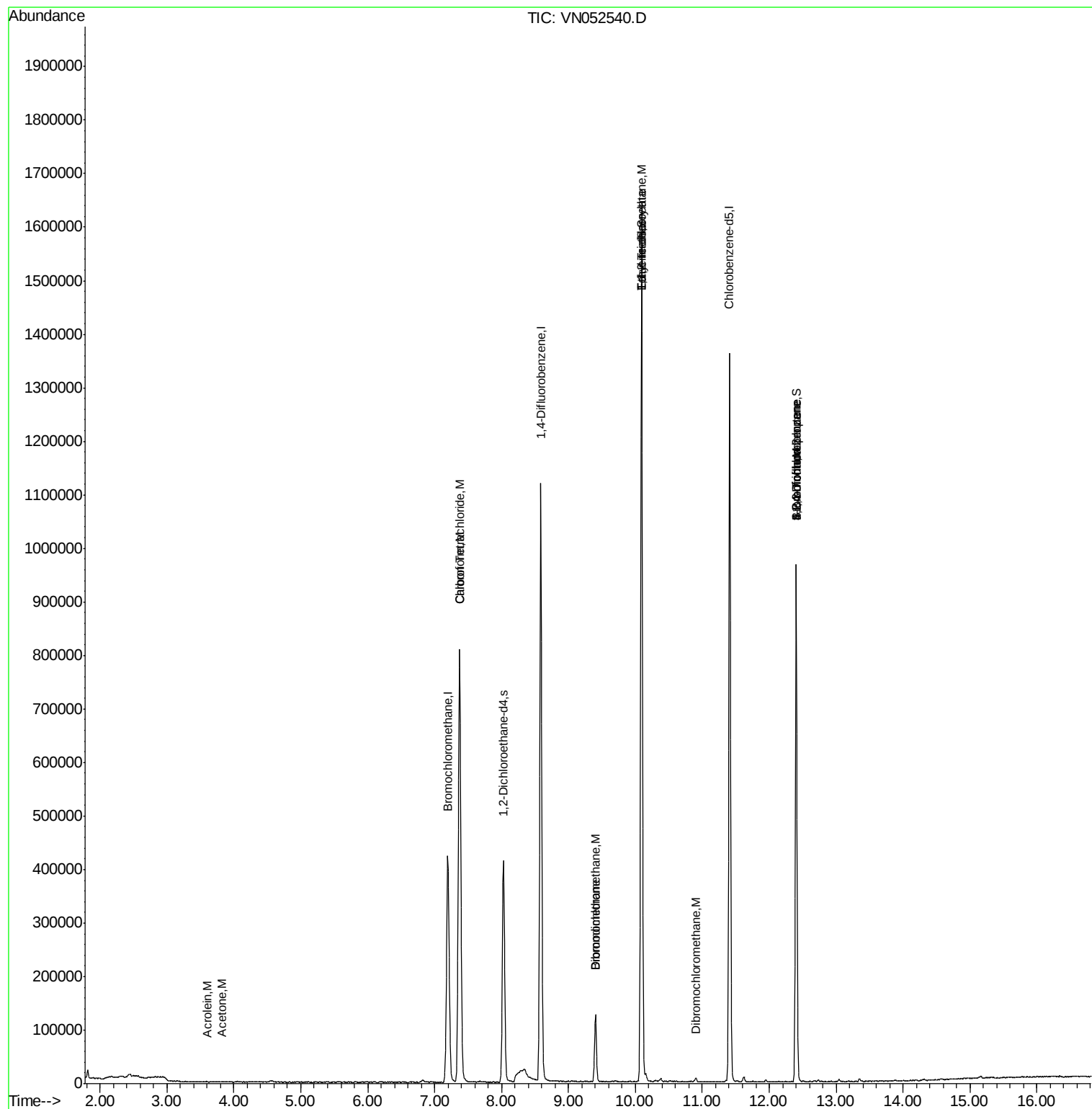
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Acrolein	3.62	56	211	0.211	ug/l #	33
15) Acetone	3.82	58	228	0.243	ug/l #	1
25) Chloroform	7.37	83	886746	44.021	ug/l	98
33) Carbon Tetrachloride	7.37	117	10611	0.749	ug/l	98
40) Dibromomethane	9.40	93	1665	0.246	ug/l #	2
41) Bromodichloromethane	9.40	83	89242	5.960	ug/l	97
50) 1,1,2-Trichloroethane	10.10	97	34958	3.639	ug/l #	1
51) Ethyl methacrylate	10.09	69	3318	0.275	ug/l	88
53) Dibromochloromethane	10.90	129	4367	0.413	ug/l	91
56) Bromoform	12.40	173	2082	0.301	ug/l #	1
72) 1,2,3-Trichloropropane	12.40	75	160085	17.806	ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	160085	56.365	ug/l #	11

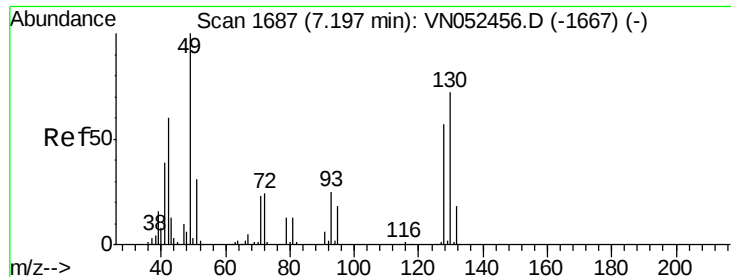
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN112818\
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Nov 27 00:48:33 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN052540.D

Acq: 29 Nov 2018 1:14

Instrument :

MSVOA_N

ClientSampled :

14B-4DL

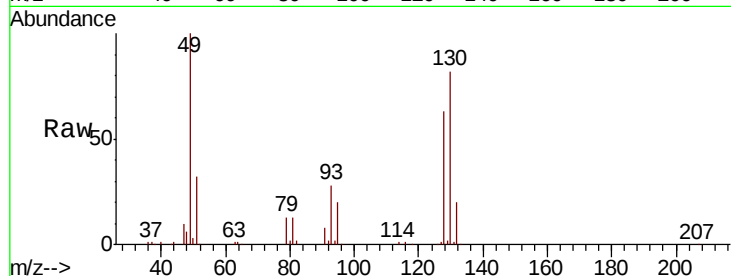
Tot Ion:128 Resp: 178252

Ion Ratio Lower Upper

128 100

49 156.2 0.0 431.8

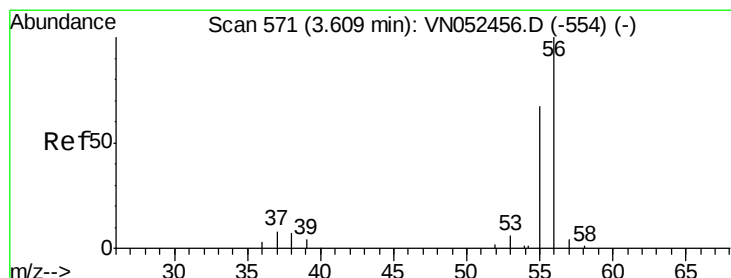
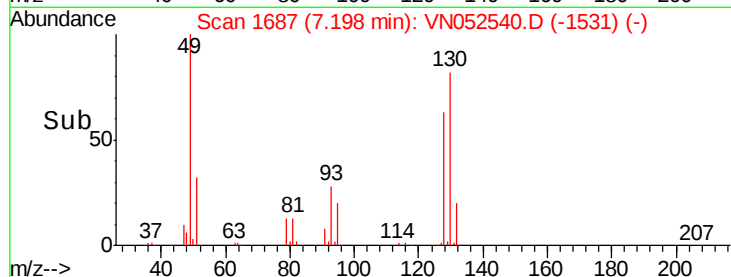
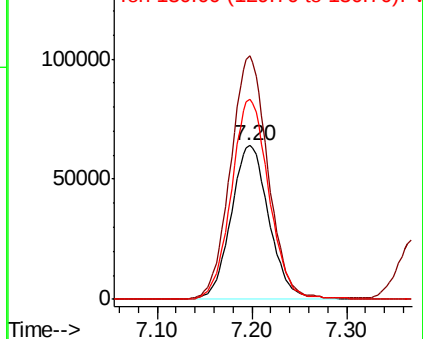
130 128.4 0.0 317.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#13

Acrolein

Concen: 0.211 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN052540.D

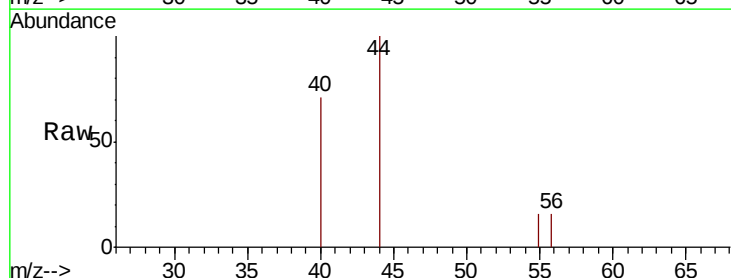
Acq: 29 Nov 2018 1:14

Tgt Ion: 56 Resp: 211

Ion Ratio Lower Upper

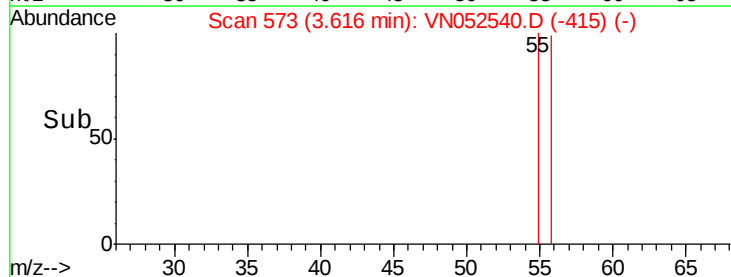
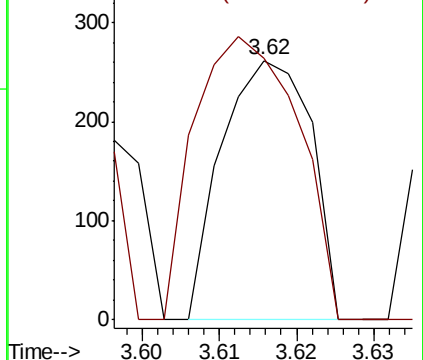
56 100

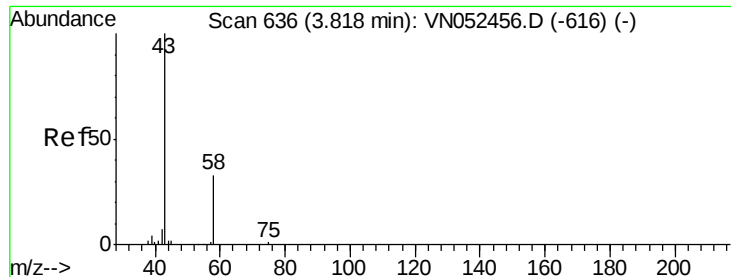
55 126.5 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#15

Acetone

Concen: 0.243 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.00 min

Lab File: VN052540.D

Acq: 29 Nov 2018 1:14

Instrument :

MSVOA_N

ClientSampled :

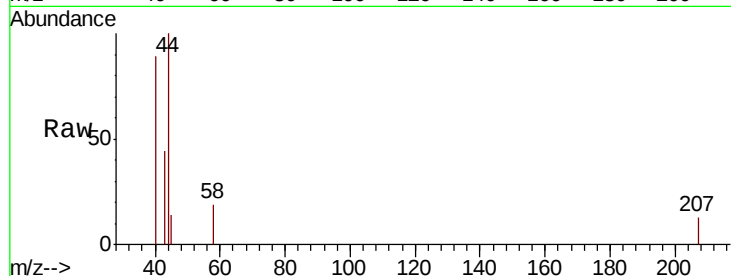
14B-4DL

Tot Ion: 58 Resp: 228

Ion Ratio Lower Upper

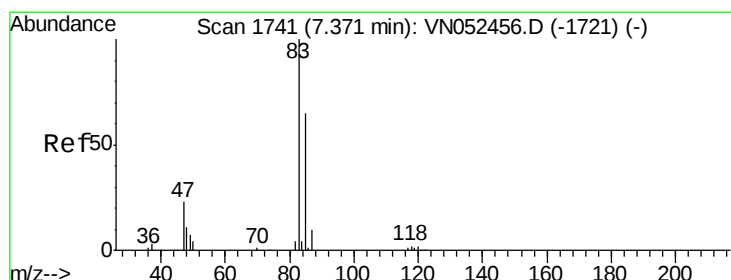
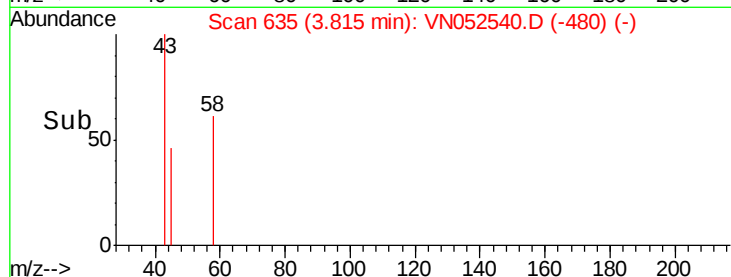
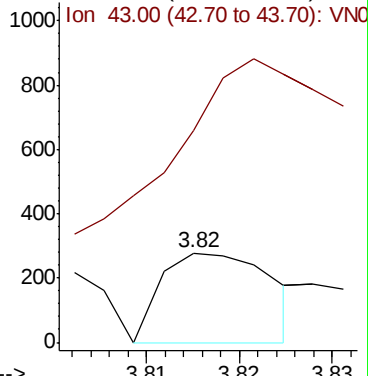
58 100

43 73.3 243.6 365.4#



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#25

Chloroform

Concen: 44.021 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VN052540.D

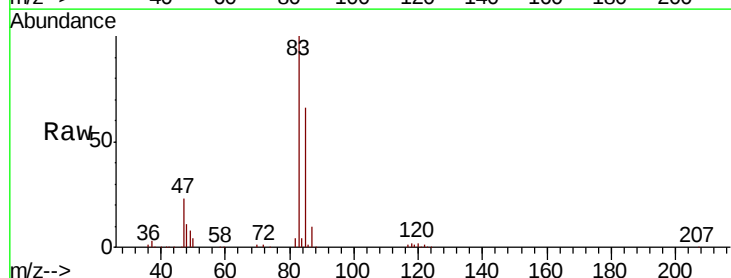
Acq: 29 Nov 2018 1:14

Tgt Ion: 83 Resp: 886746

Ion Ratio Lower Upper

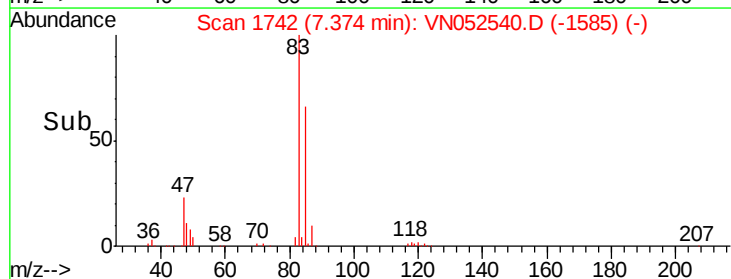
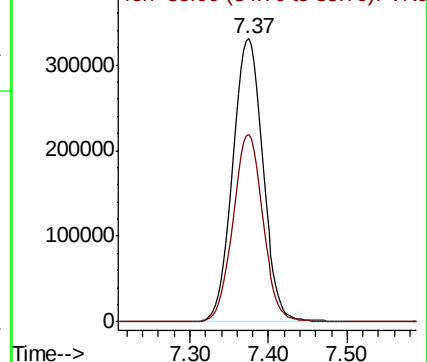
83 100

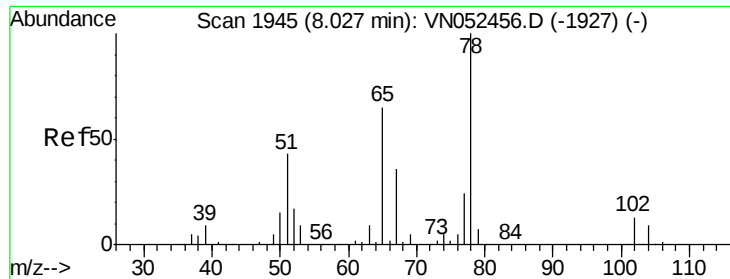
85 66.3 51.7 77.5



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0





#27

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN052540.D

Acq: 29 Nov 2018 1:14

Instrument :

MSVOA_N

ClientSampleId :

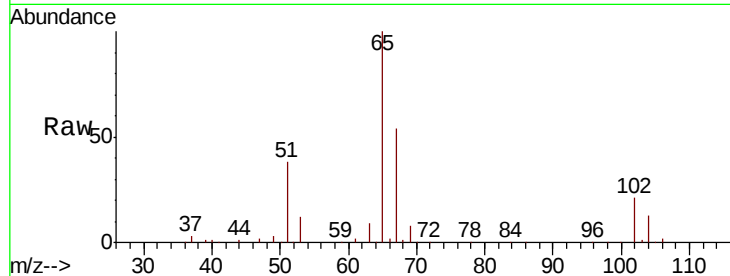
14B-4DL

Tot Ion: 65 Resp: 360211

Ion Ratio Lower Upper

65 100

67 54.2 44.6 66.8



Abundance Ion 65.00 (64.70 to 65.70): VN052540.D (-1789) (-)

Ion 67.00 (66.70 to 67.70): VN052540.D (-1789) (-)

8.03

150000

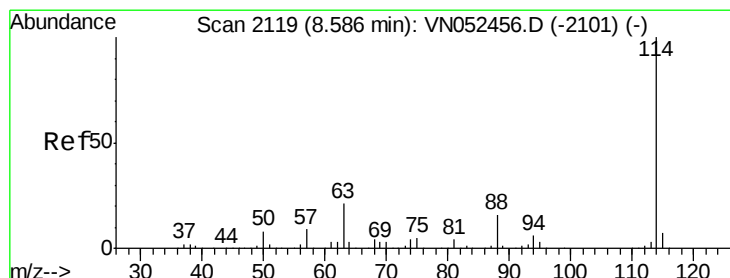
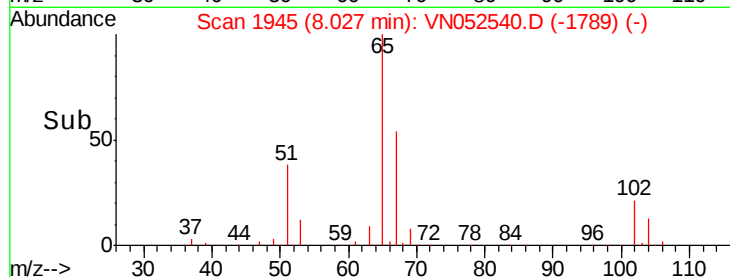
100000

50000

0

8.00 8.10

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN052540.D

Acq: 29 Nov 2018 1:14

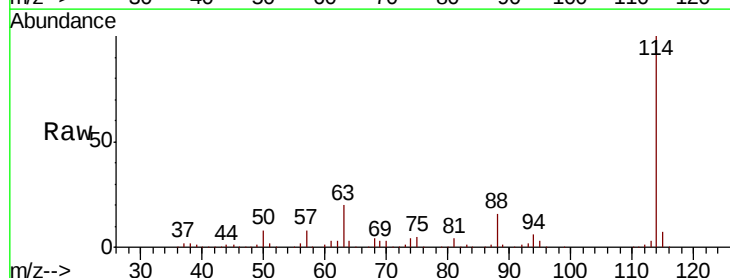
Tgt Ion: 114 Resp: 1019060

Ion Ratio Lower Upper

114 100

63 20.2 16.9 25.3

88 15.5 12.8 19.2



Abundance Ion 114.00 (113.70 to 114.70): VN052540.D (-1963) (-)

Ion 63.00 (62.70 to 63.70): VN052540.D (-1963) (-)

Ion 88.00 (87.70 to 88.70): VN052540.D (-1963) (-)

8.59

600000

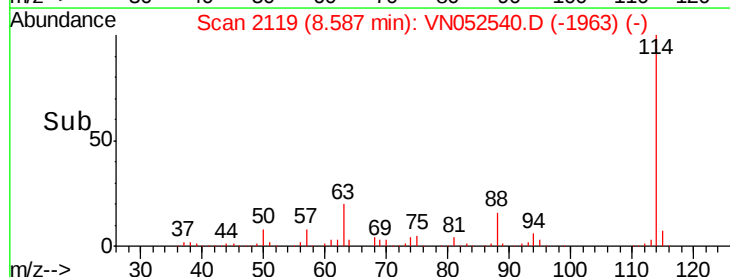
400000

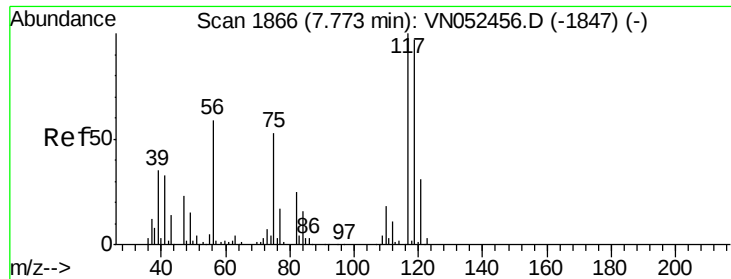
200000

0

8.50 8.60 8.70

Time-->





#33

Carbon Tetrachloride

Concen: 0.749 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. -0.40 min

Lab File: VN052540.D

Acq: 29 Nov 2018 1:14

Instrument :

MSVOA_N

ClientSampleId :

14B-4DL

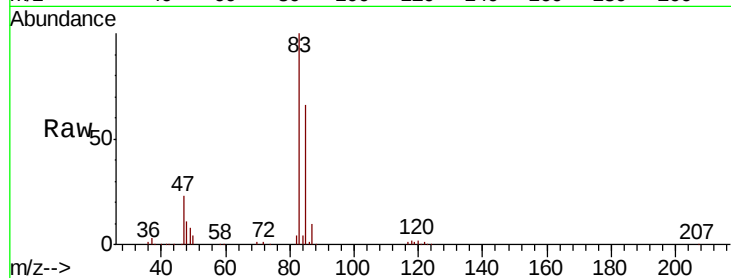
Tot Ion:117 Resp: 10611

Ion Ratio Lower Upper

117 100

119 95.6 77.3 115.9

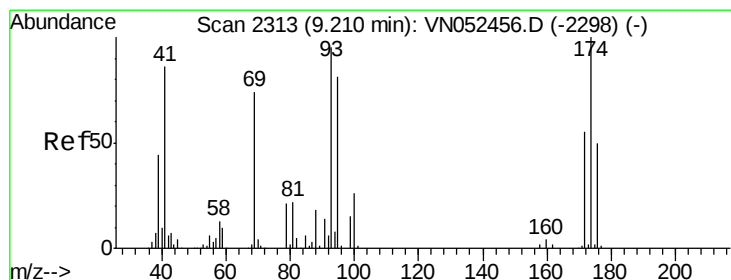
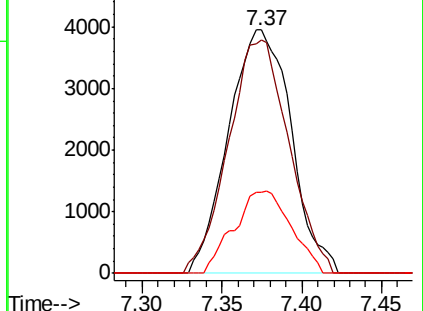
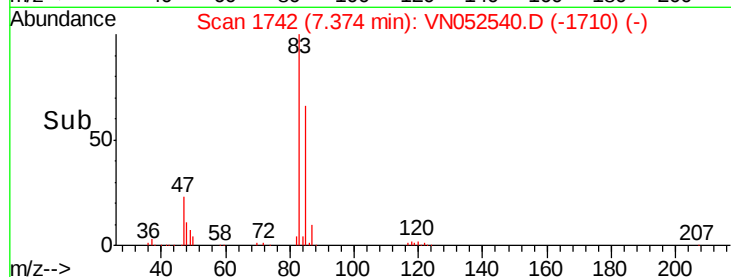
121 33.3 24.9 37.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#40

Dibromomethane

Concen: 0.246 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. 0.19 min

Lab File: VN052540.D

Acq: 29 Nov 2018 1:14

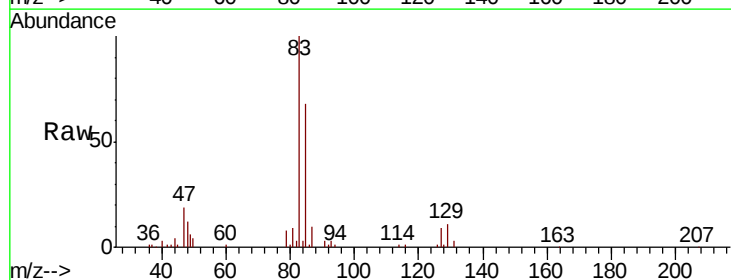
Tgt Ion: 93 Resp: 1665

Ion Ratio Lower Upper

93 100

95 0.0 0.0 168.4

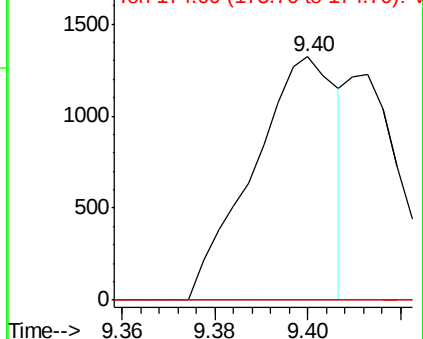
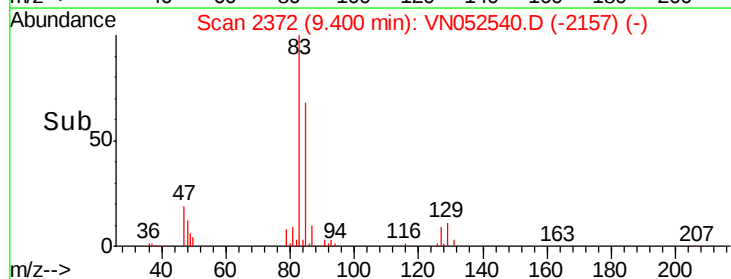
174 0.0 0.0 210.0

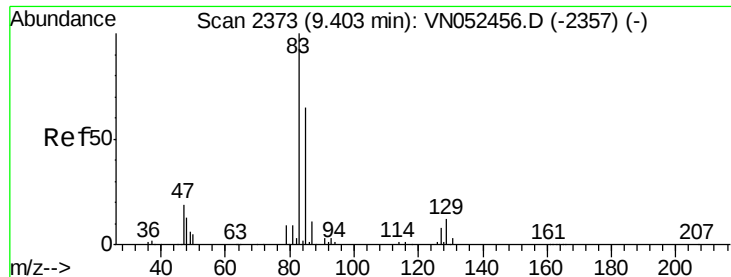


Abundance Ion 93.00 (92.70 to 93.70): V

Ion 95.00 (94.70 to 95.70): V

Ion 174.00 (173.70 to 174.70): V





#41

Bromodichloromethane

Concen: 5.960 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN052540.D

Acq: 29 Nov 2018 1:14

Instrument :

MSVOA_N

ClientSampleId :

14B-4DL

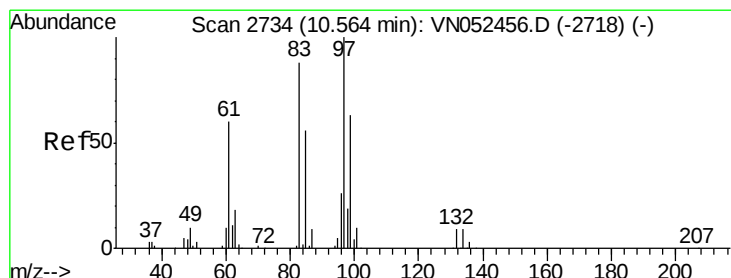
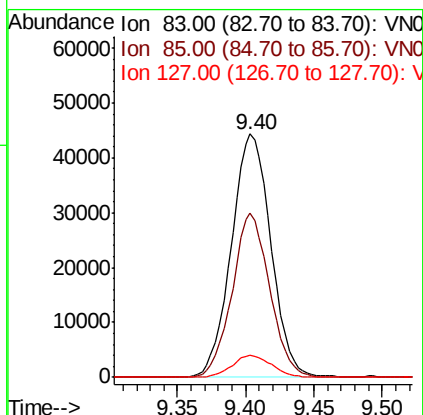
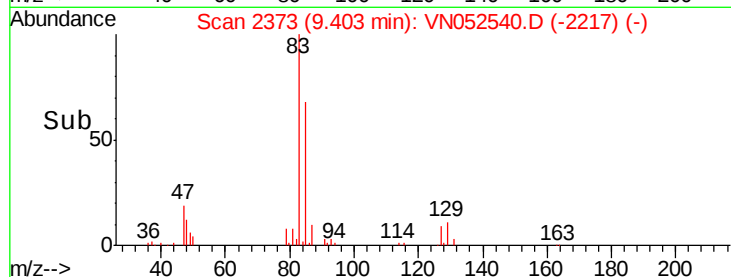
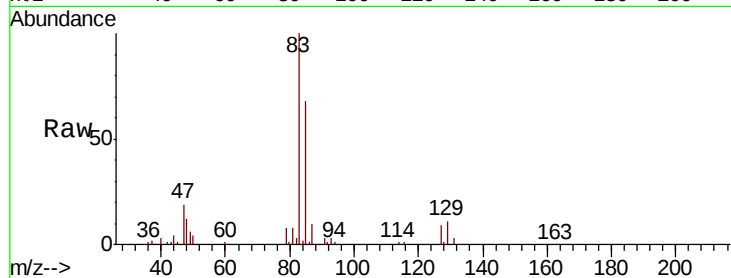
Tot Ion: 83 Resp: 89242

Ion Ratio Lower Upper

83 100

85 67.6 52.4 78.6

127 8.9 6.6 9.8



#50

1,1,2-Trichloroethane

Concen: 3.639 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.47 min

Lab File: VN052540.D

Acq: 29 Nov 2018 1:14

Tgt Ion: 97 Resp: 34958

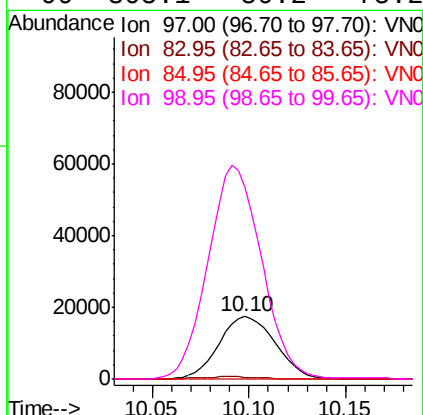
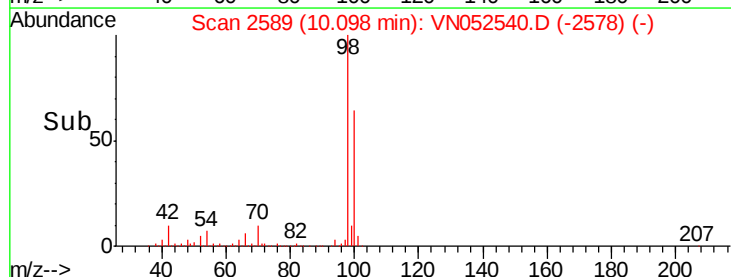
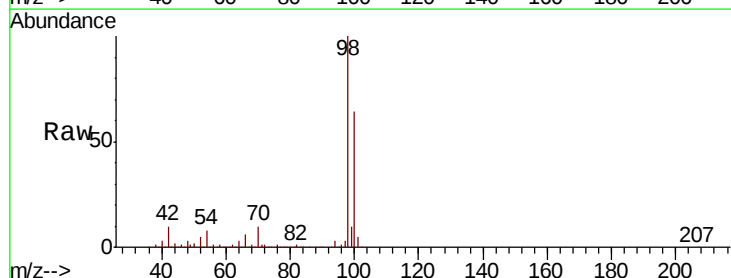
Ion Ratio Lower Upper

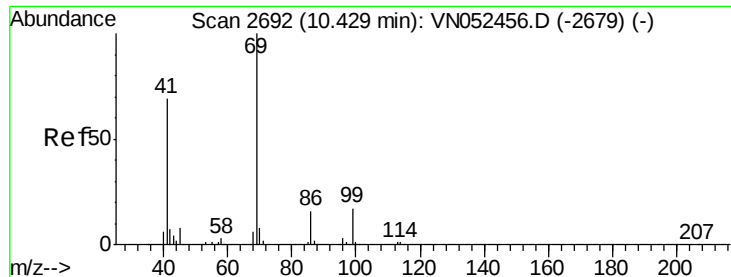
97 100

83 2.9 70.4 105.6#

85 0.0 45.0 67.6#

99 305.1 50.2 75.2#





#51

Ethyl methacrylate

Concen: 0.275 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.34 min

Lab File: VN052540.D

Acq: 29 Nov 2018 1:14

Instrument :

MSVOA_N

ClientSampled :

14B-4DL

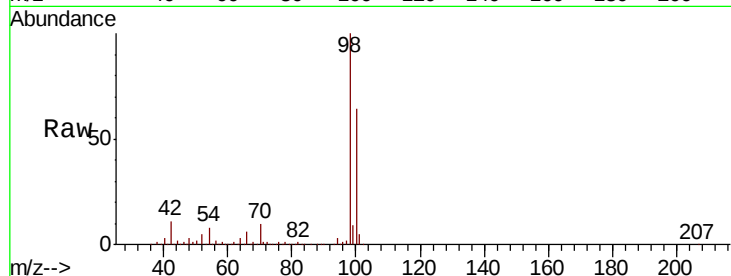
Tot Ion: 69 Resp: 3318

Ion Ratio Lower Upper

69 100

41 62.9 34.4 103.3

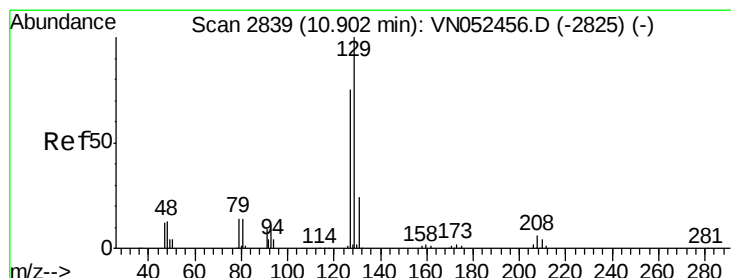
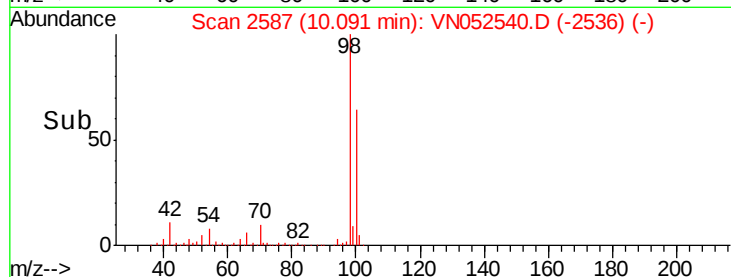
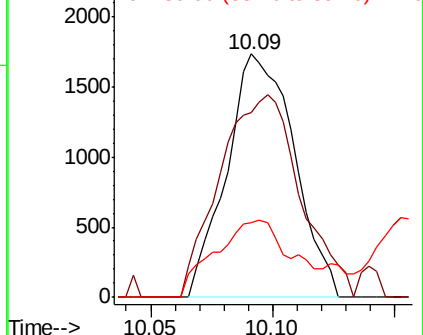
39 21.2 16.4 49.2



Abundance Ion 69.00 (68.70 to 69.70): VN052540.D (-2679) (-)

Ion 41.00 (40.70 to 41.70): VN052540.D (-2679) (-)

Ion 39.00 (38.70 to 39.70): VN052540.D (-2679) (-)



#53

Dibromochloromethane

Concen: 0.413 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN052540.D

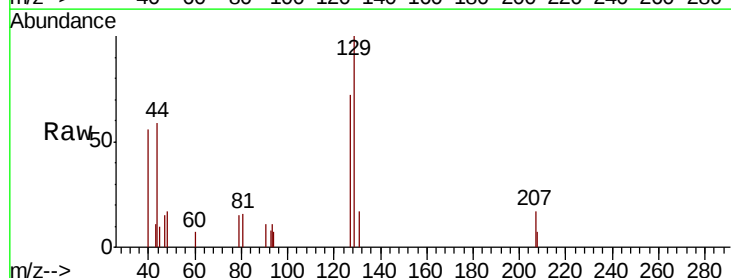
Acq: 29 Nov 2018 1:14

Tgt Ion: 129 Resp: 4367

Ion Ratio Lower Upper

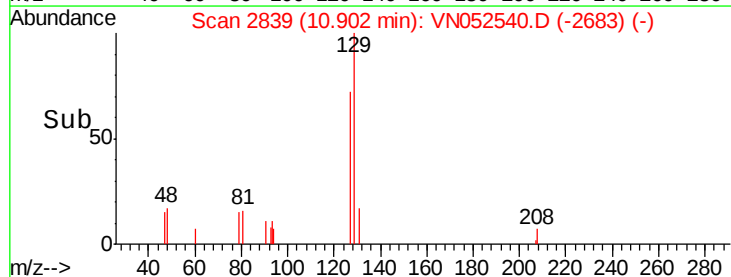
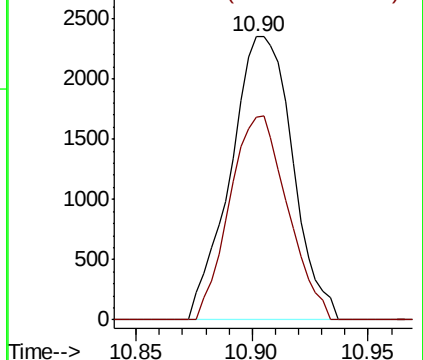
129 100

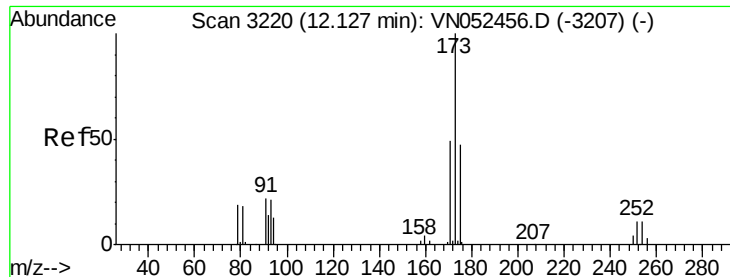
127 67.1 37.6 112.8



Abundance Ion 129.00 (128.70 to 129.70): VN052540.D (-2683) (-)

Ion 127.00 (126.70 to 127.70): VN052540.D (-2683) (-)

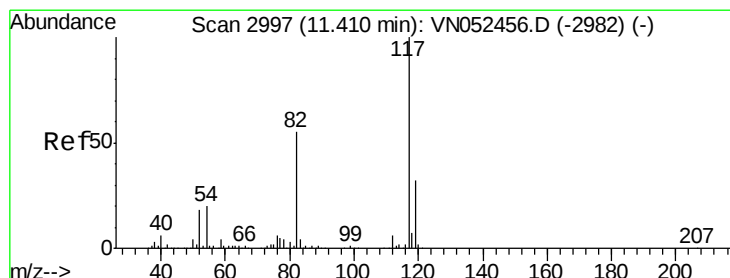
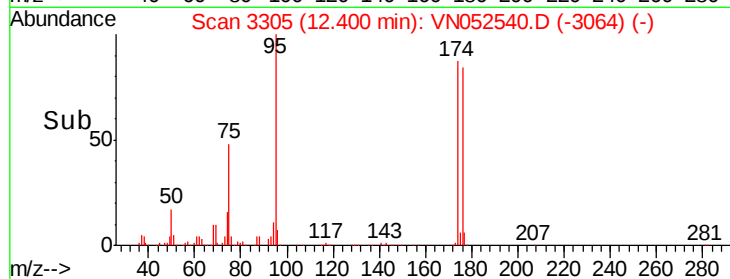
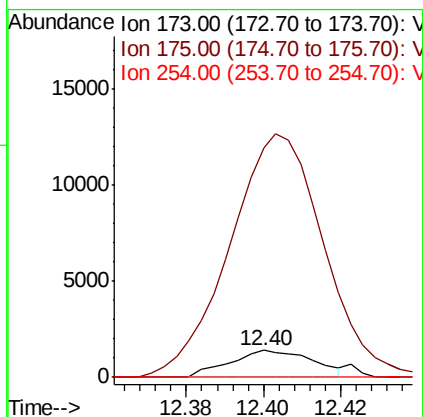
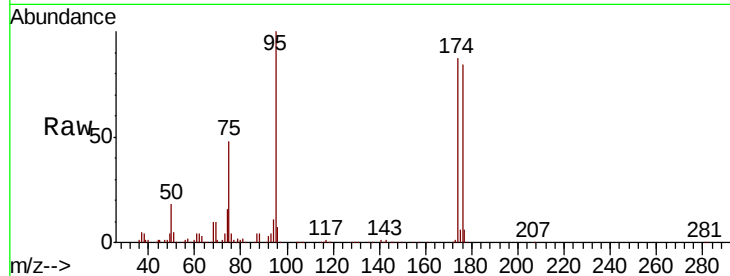




#56
Bromoform
Concen: 0.301 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN052540.D
Acq: 29 Nov 2018 1:14

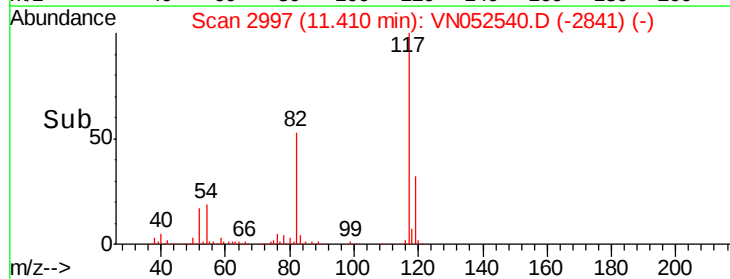
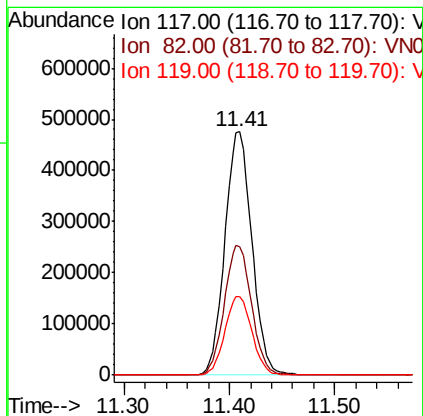
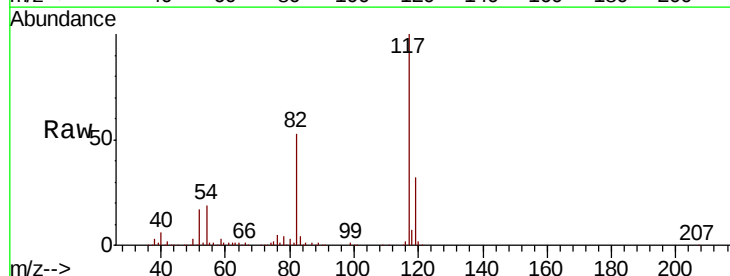
Instrument :
MSVOA_N
ClientSampleId :
14B-4DL

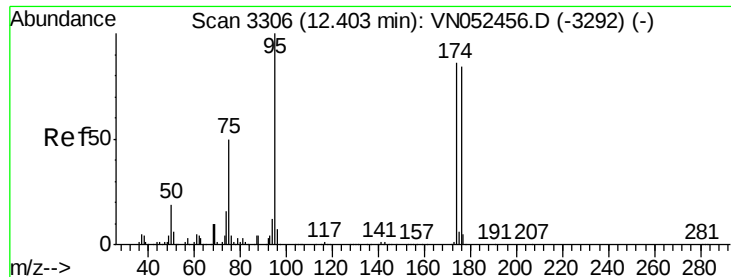
Tot Ion:173 Resp: 2082
Ion Ratio Lower Upper
173 100
175 1028.2 38.7 58.1#
254 0.0 8.4 12.6#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN052540.D
Acq: 29 Nov 2018 1:14

Tgt Ion:117 Resp: 842278
Ion Ratio Lower Upper
117 100
82 53.7 44.2 66.2
119 32.4 25.4 38.2





#60

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN052540.D

Acq: 29 Nov 2018 1:14

Instrument :

MSVOA_N

ClientSampled :

14B-4DL

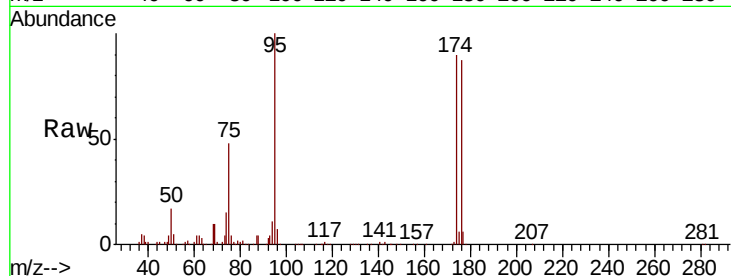
Tot Ion: 95 Resp: 334639

Ion Ratio Lower Upper

95 100

174 89.5 67.9 101.9

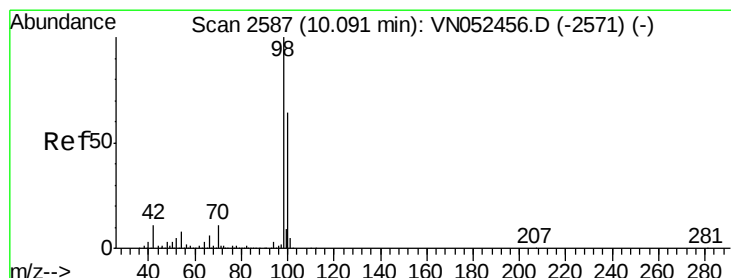
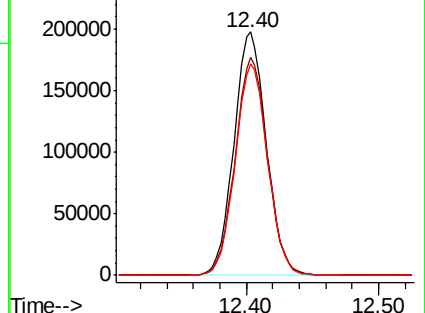
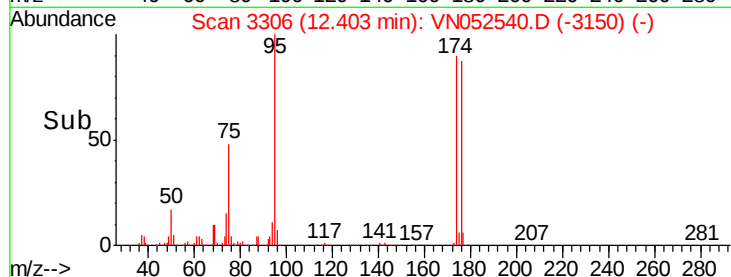
176 86.7 66.4 99.6



Abundance Ion 95.00 (94.70 to 95.70): VN052540.D (-3292) (-)

Ion 174.00 (173.70 to 174.70): VN052540.D (-3292) (-)

Ion 176.00 (175.70 to 176.70): VN052540.D (-3292) (-)



#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052540.D

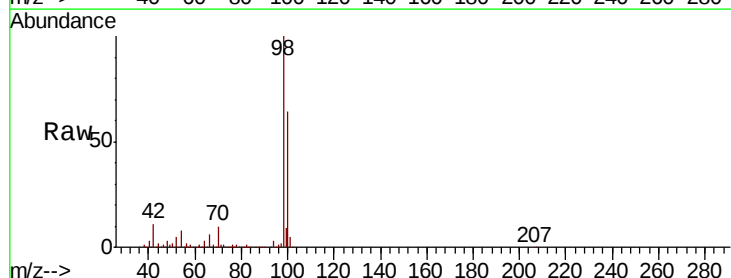
Acq: 29 Nov 2018 1:14

Tgt Ion: 98 Resp: 1189664

Ion Ratio Lower Upper

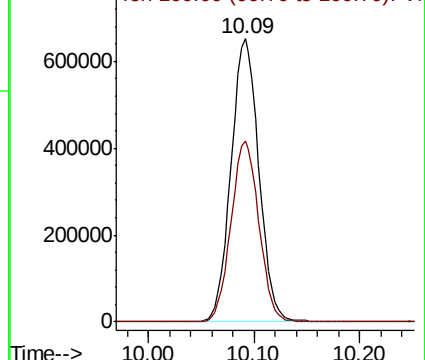
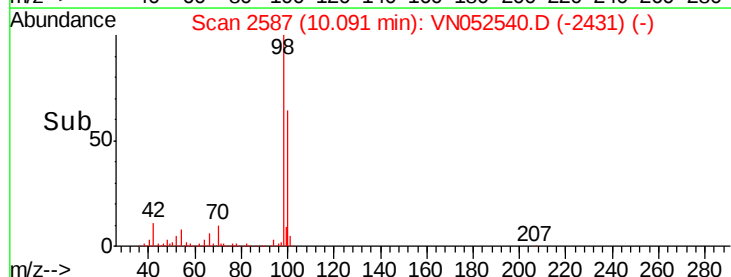
98 100

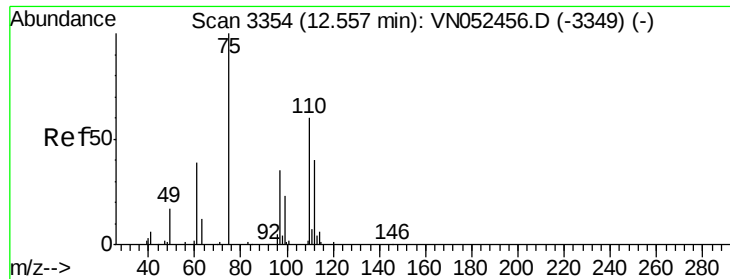
100 63.9 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN052540.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN052540.D (-2571) (-)





#72

1,2,3-Trichloropropane

Concen: 17.806 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN052540.D

Acq: 29 Nov 2018 1:14

Instrument :

MSVOA_N

ClientSampleId :

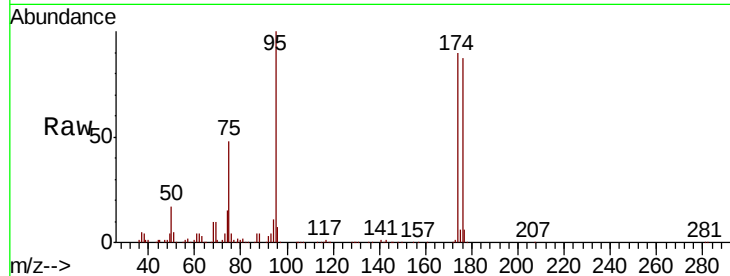
14B-4DL

Tot Ion: 75 Resp: 160085

Ion Ratio Lower Upper

75 100

77 1.0 0.0 514.8



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

100000

80000

60000

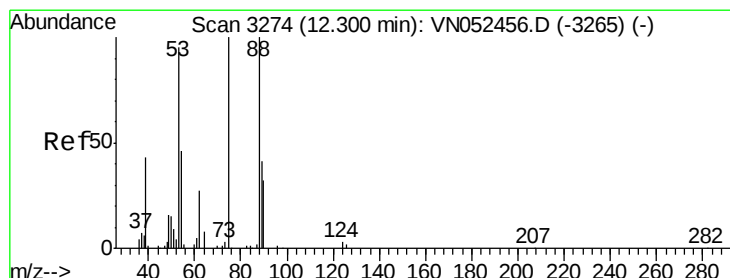
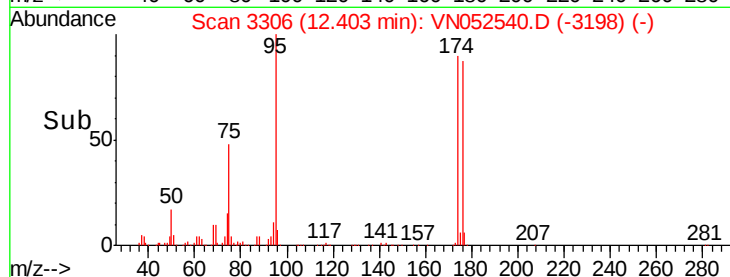
40000

20000

0

Time-->

12.35 12.40 12.45



#77

t-1,4-Dichloro-2-butene

Concen: 56.365 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052540.D

Acq: 29 Nov 2018 1:14

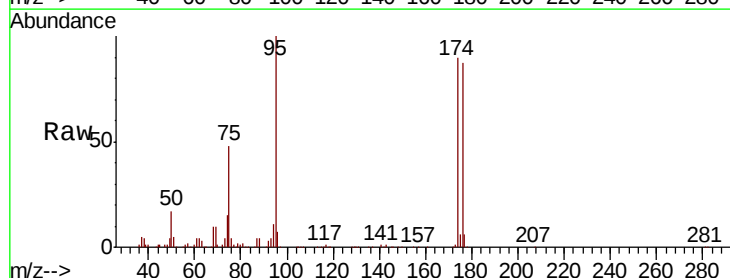
Tgt Ion: 75 Resp: 160085

Ion Ratio Lower Upper

75 100

53 0.0 48.5 145.6#

89 0.0 21.7 65.1#



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0

12.40

120000

100000

80000

60000

40000

20000

0

Time-->

12.35 12.40 12.45

