

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122018\
 Data File : VN053044.D
 Acq On : 20 Dec 2018 9:41
 Operator : MD\SY
 Sample : VN1220WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 21 00:13:26 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	7.66	168	1345980	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	2053675	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1841250	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	738117	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	647344	47.39	ug/l	0.00
Spiked Amount						
			Recovery	=	94.78%	
35) Dibromofluoromethane	7.59	113	555191	59.18	ug/l	0.00
Spiked Amount						
			Recovery	=	118.36%	
50) Toluene-d8	10.09	98	2501119	49.66	ug/l	0.00
Spiked Amount						
			Recovery	=	99.32%	
62) 4-Bromofluorobenzene	12.40	95	837119	47.35	ug/l	0.00
Spiked Amount						
			Recovery	=	94.70%	

Target Compounds

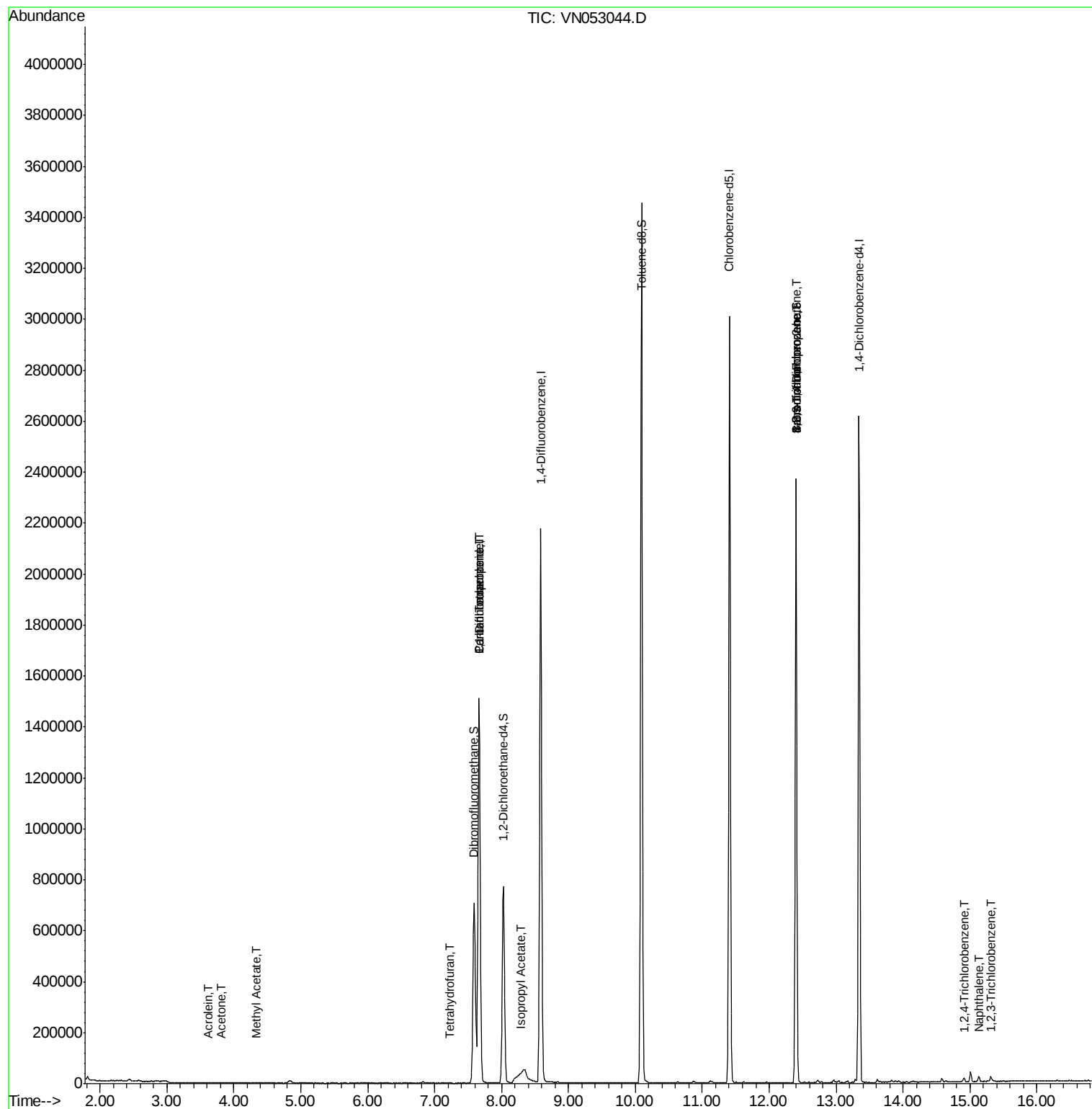
					Qvalue	
13) Acrolein	3.61	56	725	0.959	ug/l #	49
16) Acetone	3.82	43	1595	0.596	ug/l #	79
18) Methyl Acetate	4.33	43	4554	1.359	ug/l #	79
29) Tetrahydrofuran	7.22	42	726	0.216	ug/l #	41
31) Cyclohexane	7.66	56	21409	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	86319	4.379	ug/l #	49
38) Carbon Tetrachloride	7.67	117	115540	6.395	ug/l #	16
43) Isopropyl Acetate	8.27	43	59149	1.770	ug/l #	54
71) Bromoform	12.40	173	4840	0.472	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	384220	30.922	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	384220	99.665	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.91	180	5831	1.031	ug/l	96
94) Hexachlorobutadiene	15.01	225	8497	Below Cal		98
95) Naphthalene	15.13	128	16407	1.699	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	7556	1.135	ug/l	96

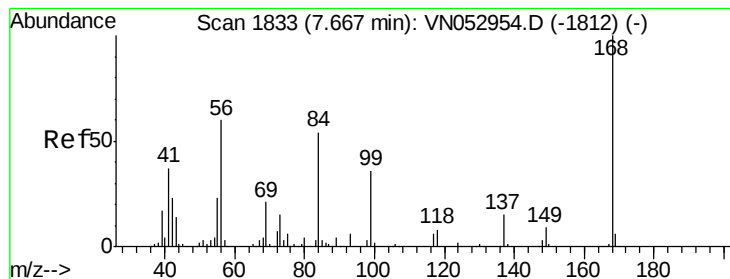
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Dec 18 13:03:37 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN053044.D

Acq: 20 Dec 2018 9:41

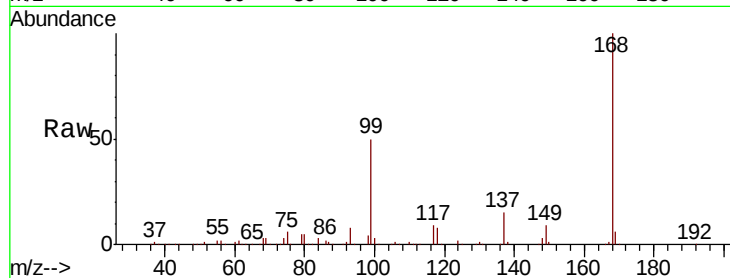
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 1345980

Ion Ratio Lower Upper

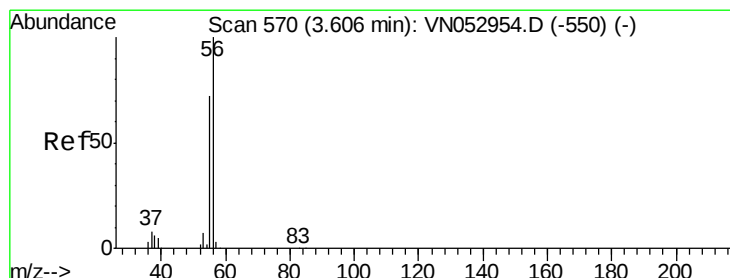
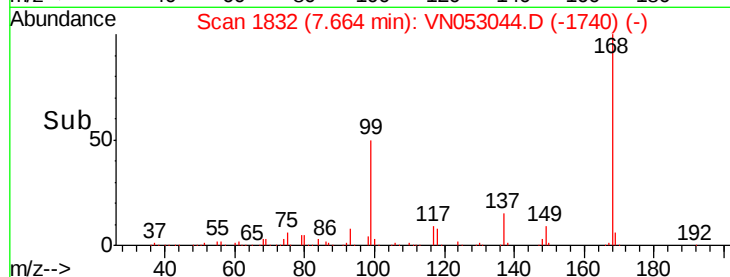
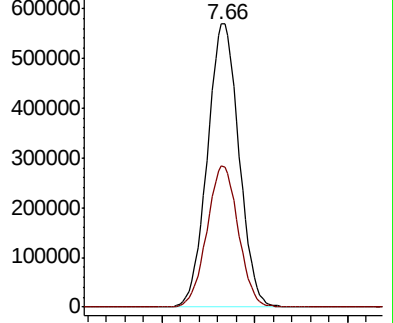
168 100

99 50.0 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#13

Acrolein

Concen: 0.959 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN053044.D

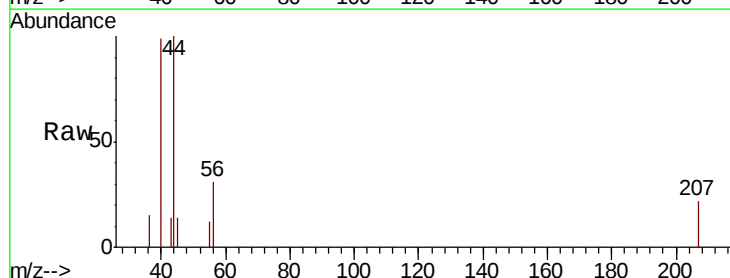
Acq: 20 Dec 2018 9:41

Tgt Ion: 56 Resp: 725

Ion Ratio Lower Upper

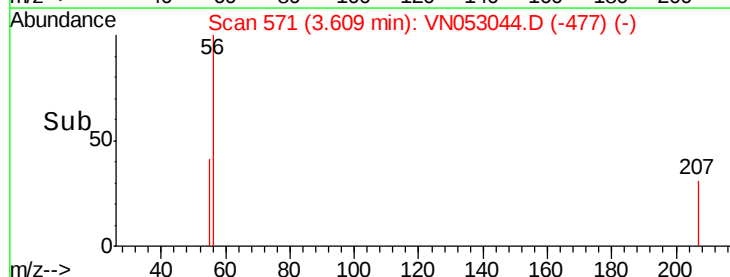
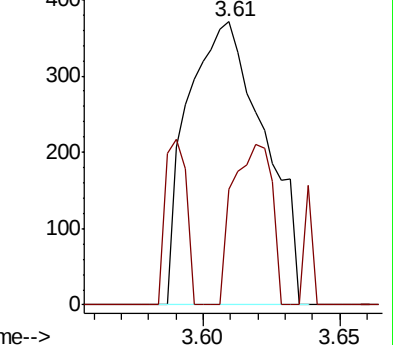
56 100

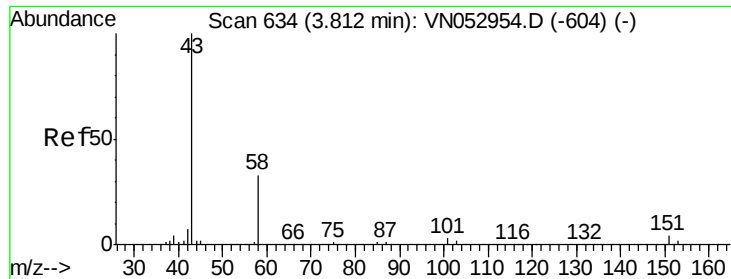
55 29.0 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#16

Acetone

Concen: 0.596 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN053044.D

Acq: 20 Dec 2018 9:41

Instrument :

MSVOA_N

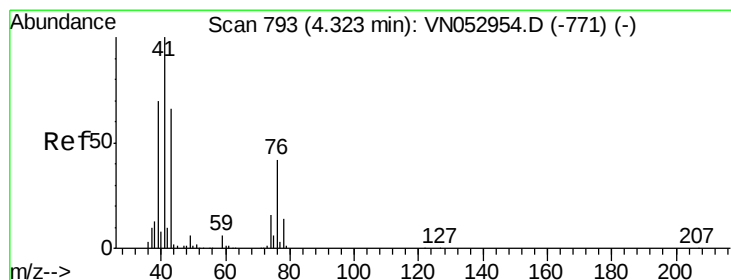
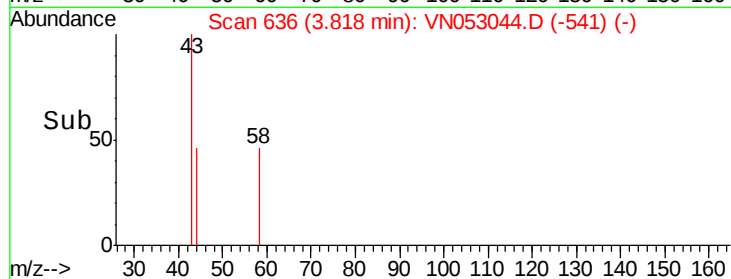
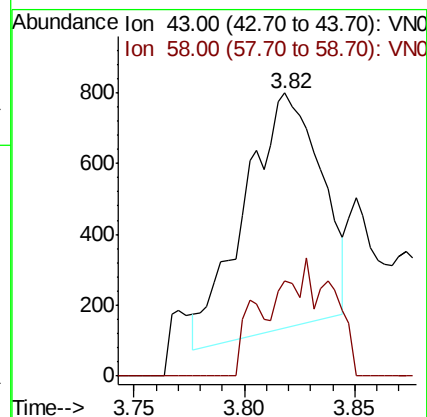
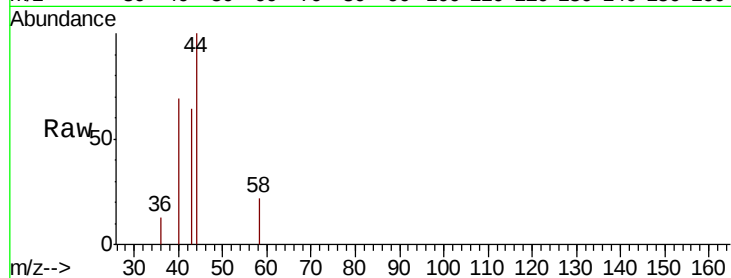
ClientSampled :

Tot Ion: 43 Resp: 1595

Ion Ratio Lower Upper

43 100

58 43.1 25.4 38.0#



#18

Methyl Acetate

Concen: 1.359 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN053044.D

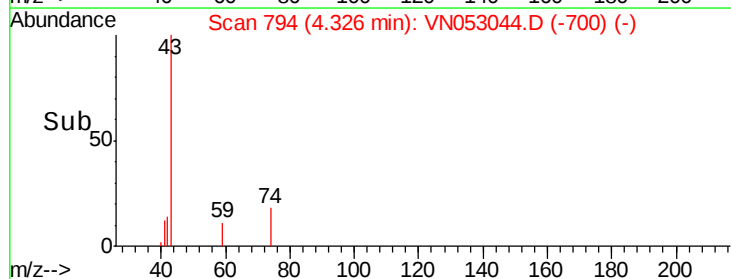
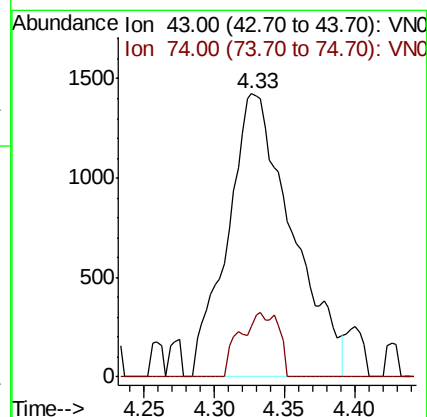
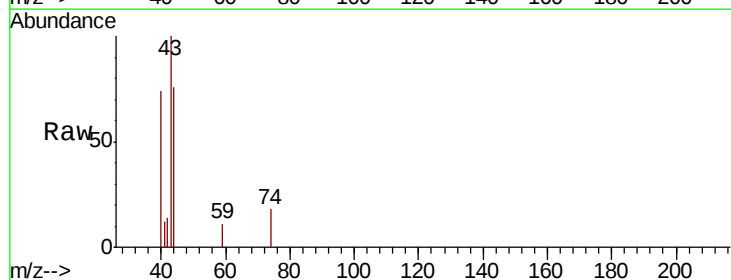
Acq: 20 Dec 2018 9:41

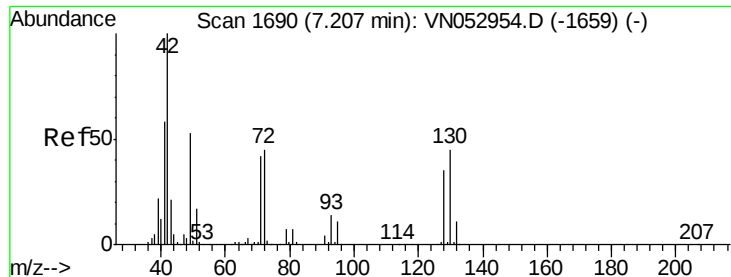
Tgt Ion: 43 Resp: 4554

Ion Ratio Lower Upper

43 100

74 13.7 19.2 28.8#





#29

Tetrahydrofuran

Concen: 0.216 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN053044.D

Acq: 20 Dec 2018 9:41

Instrument :

MSVOA_N

ClientSampled :

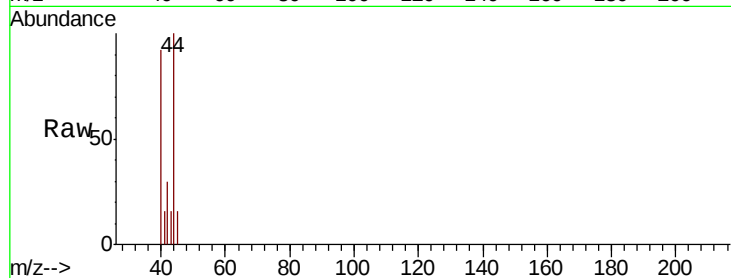
Tot Ion: 42 Resp: 726

Ion Ratio Lower Upper

42 100

72 0.0 34.7 52.1#

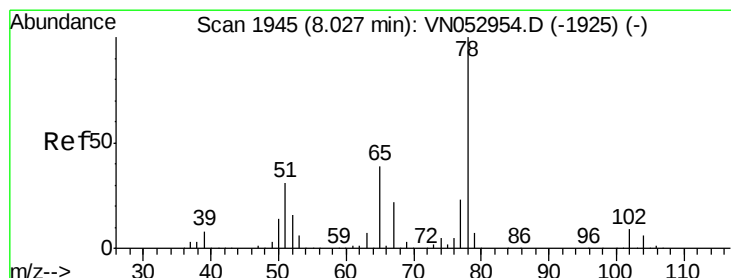
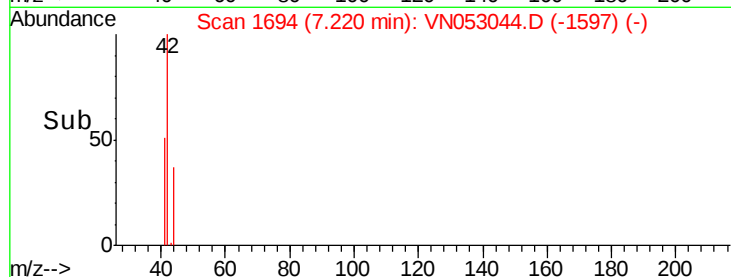
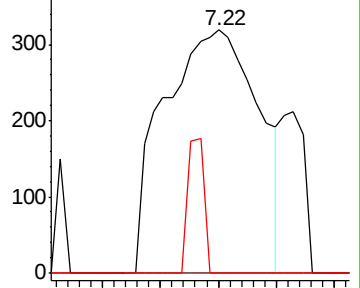
71 9.2 32.3 48.5#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053044.D

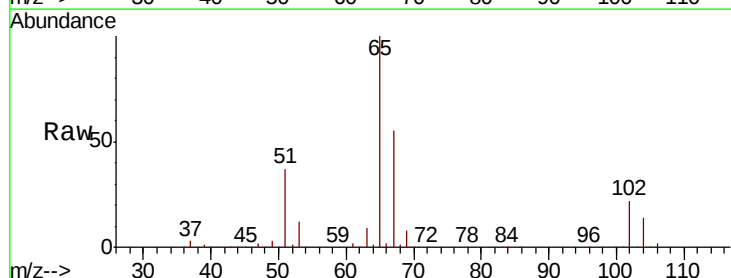
Acq: 20 Dec 2018 9:41

Tgt Ion: 65 Resp: 647344

Ion Ratio Lower Upper

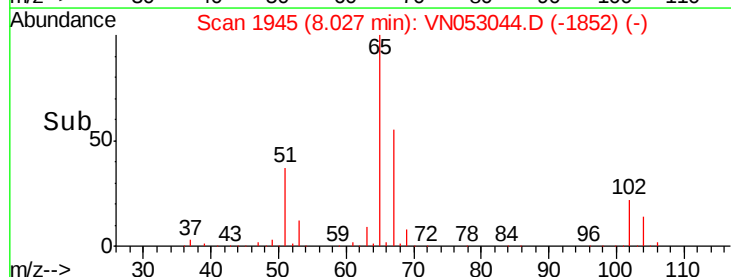
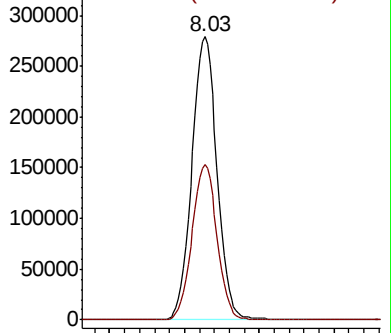
65 100

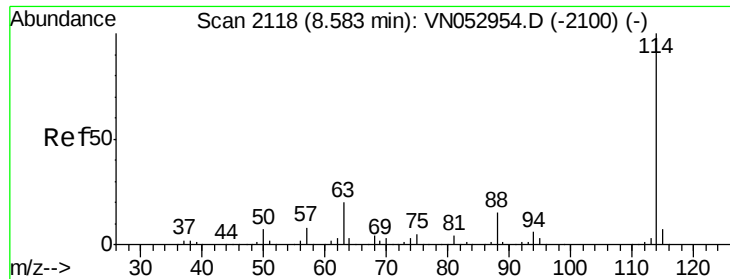
67 54.7 0.0 110.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

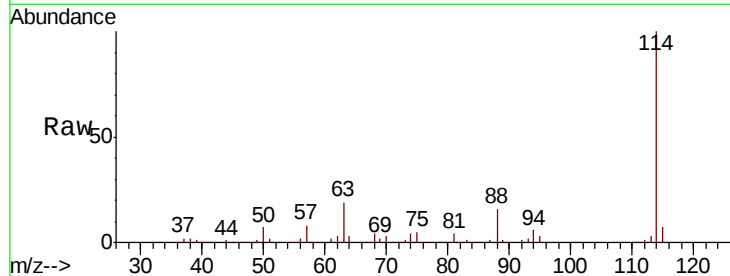




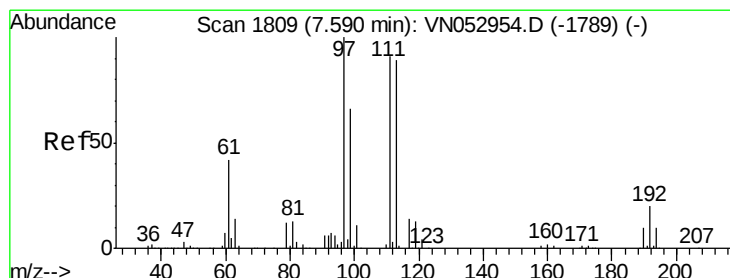
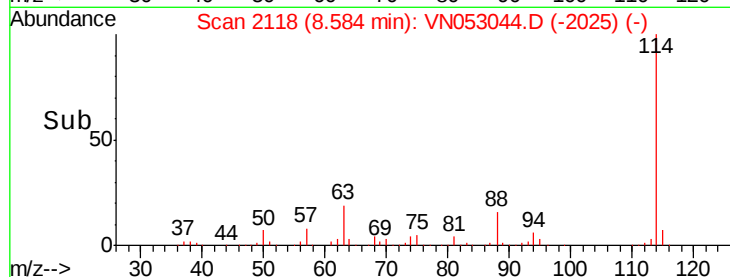
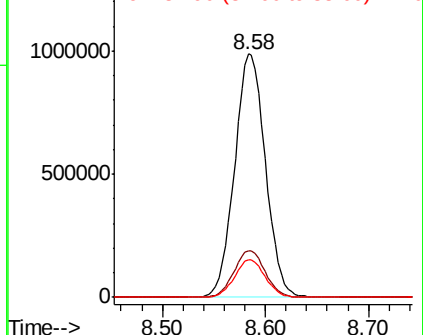
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2118
Delta R.T. 0.00 min
Lab File: VN053044.D
Acq: 20 Dec 2018 9:41

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:114 Resp: 2053675
Ion Ratio Lower Upper
114 100
63 19.4 0.0 39.8
88 15.6 0.0 31.0

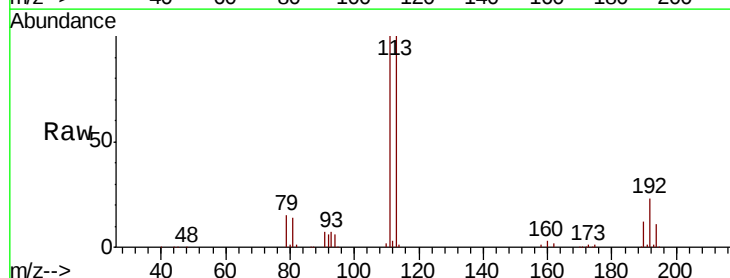


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

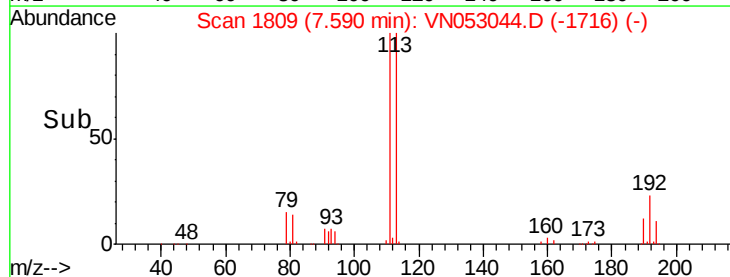
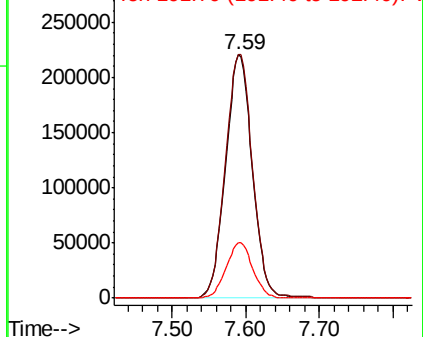


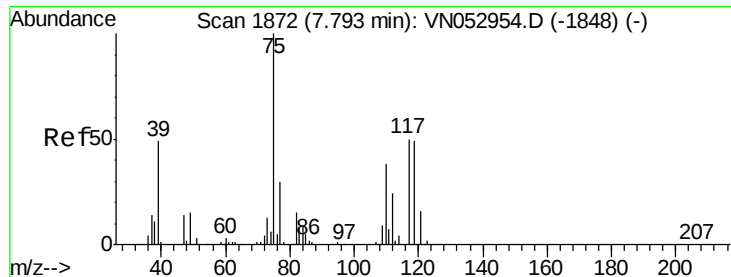
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN053044.D
Acq: 20 Dec 2018 9:41

Tgt Ion:113 Resp: 555191
Ion Ratio Lower Upper
113 100
111 101.8 83.0 124.4
192 22.7 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

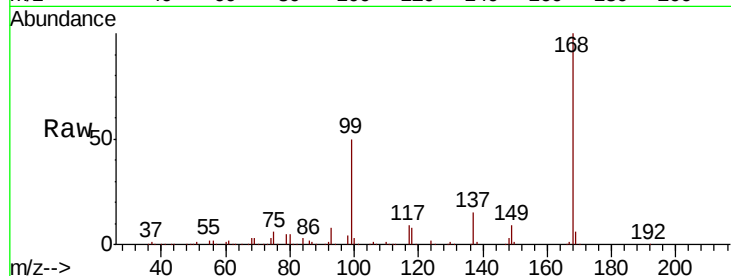




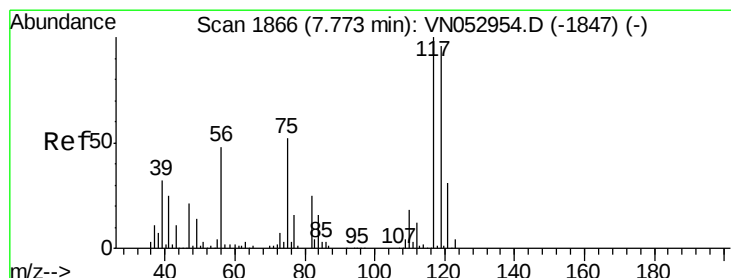
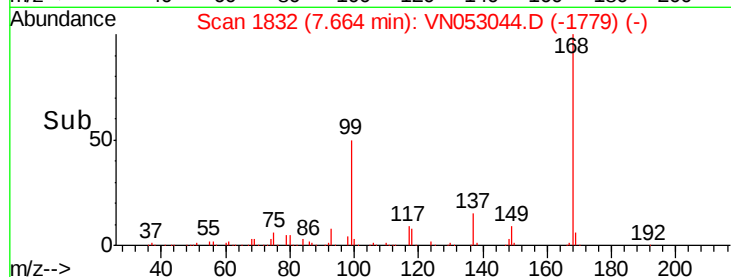
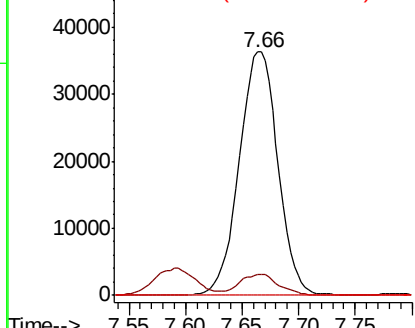
#36
 1,1-Dichloropropene
 Concen: 4.379 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN053044.D
 Acq: 20 Dec 2018 9:41

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	75	Resp	86319
Ion Ratio	100	Lower	Upper
75	100		
110	8.6	18.2	54.6#
77	0.0	24.9	37.3#

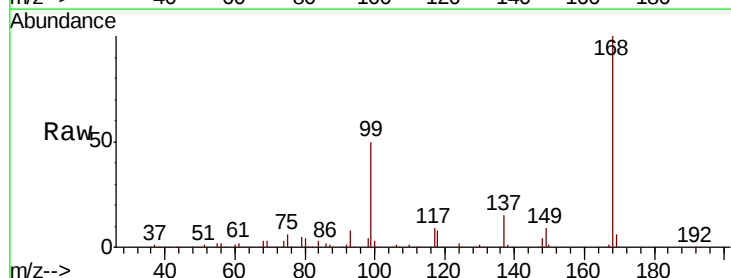


Abundance Ion 74.90 (74.60 to 75.60): VN053044.D (-1779) (-)
 Ion 109.90 (109.60 to 110.60): VN053044.D (-1779) (-)
 Ion 76.90 (76.60 to 77.60): VN053044.D (-1779) (-)

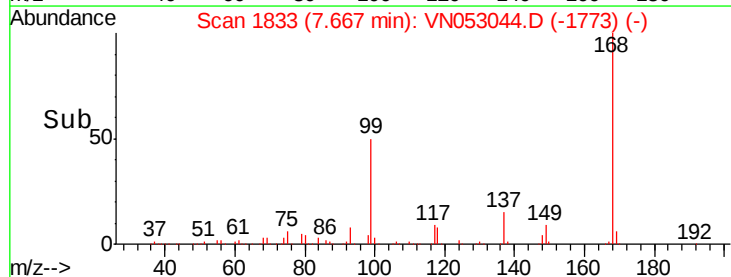
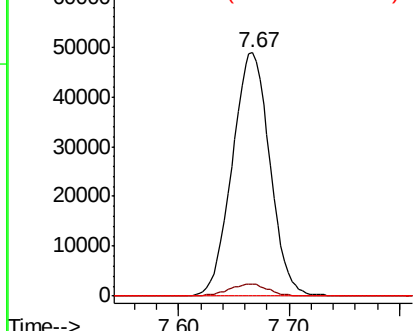


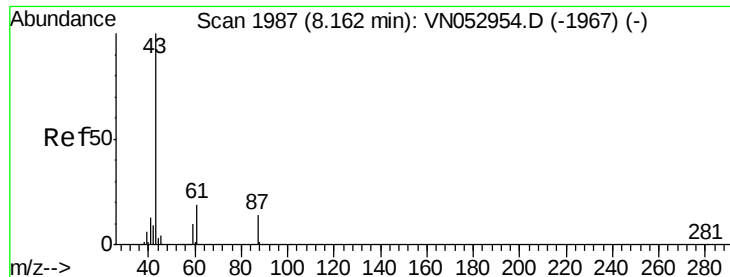
#38
 Carbon Tetrachloride
 Concen: 6.395 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN053044.D
 Acq: 20 Dec 2018 9:41

Tgt Ion	117	Resp	115540
Ion Ratio	100	Lower	Upper
117	100		
119	5.2	77.1	115.7#
121	0.0	24.9	37.3#



Abundance Ion 116.80 (116.50 to 117.50): VN053044.D (-1773) (-)
 Ion 118.80 (118.50 to 119.50): VN053044.D (-1773) (-)
 Ion 120.80 (120.50 to 121.50): VN053044.D (-1773) (-)





#43

Isopropyl Acetate

Concen: 1.770 ug/l

RT: 8.27 min Scan# 2022

Delta R.T. 0.11 min

Lab File: VN053044.D

Acq: 20 Dec 2018 9:41

Instrument :
MSVOA_N
ClientSampleId :

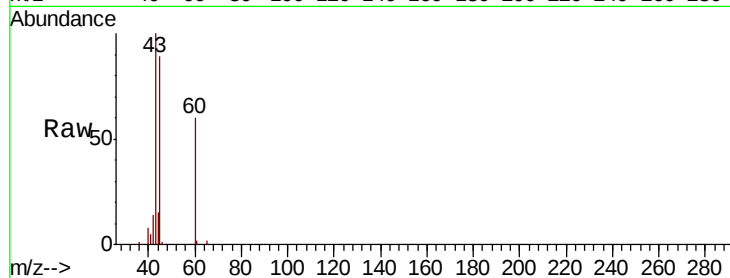
Tot Ion: 43 Resp: 59149

Ion Ratio Lower Upper

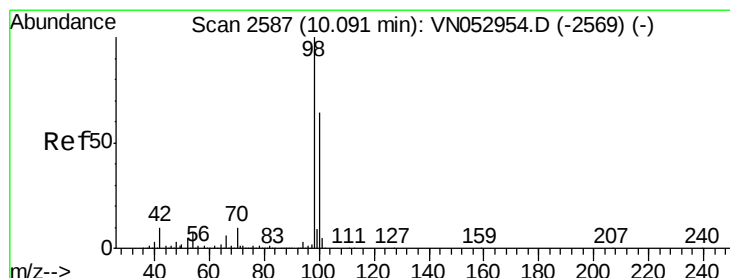
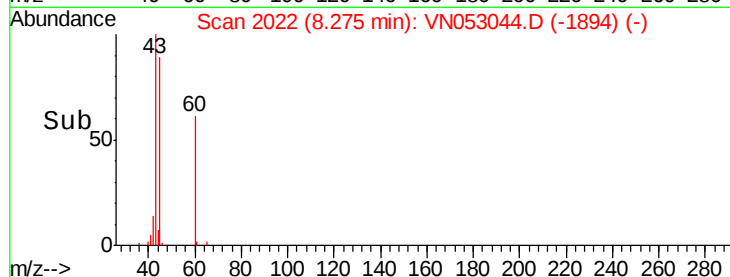
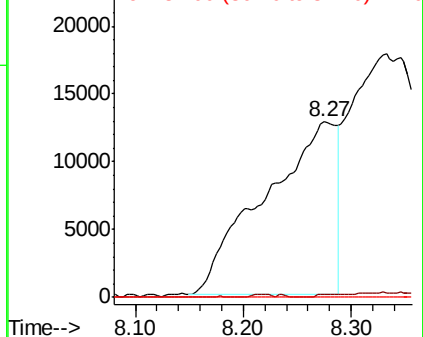
43 100

61 0.9 22.9 34.3#

87 0.0 10.6 15.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN053044.D

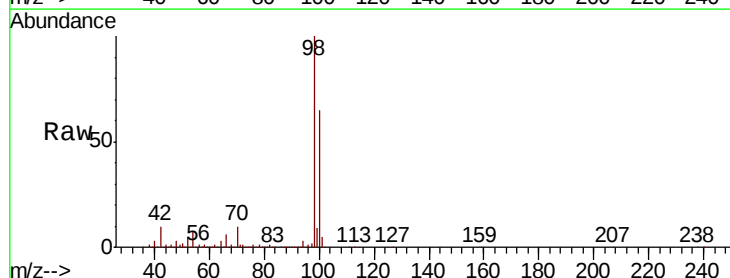
Acq: 20 Dec 2018 9:41

Tgt Ion: 98 Resp: 2501119

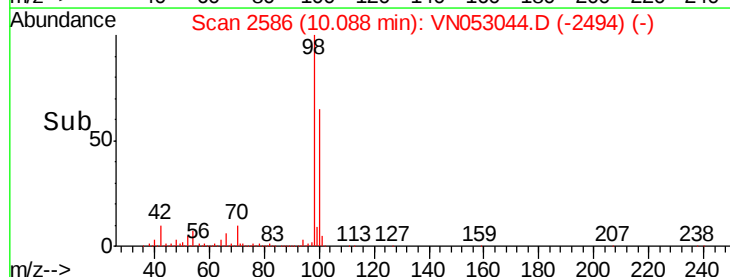
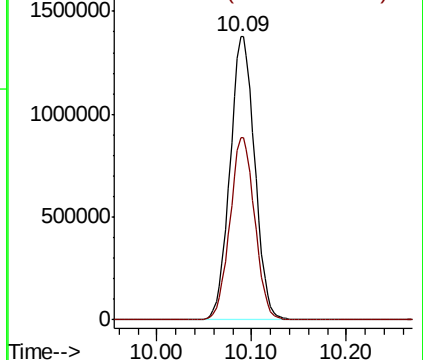
Ion Ratio Lower Upper

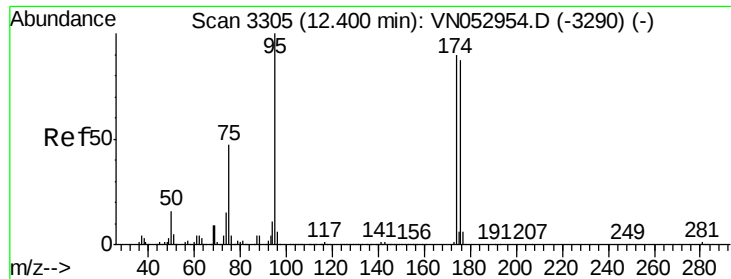
98 100

100 64.4 51.6 77.4



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: VN053044.D

Acq: 20 Dec 2018 9:41

Instrument :

MSVOA_N

ClientSampleId :

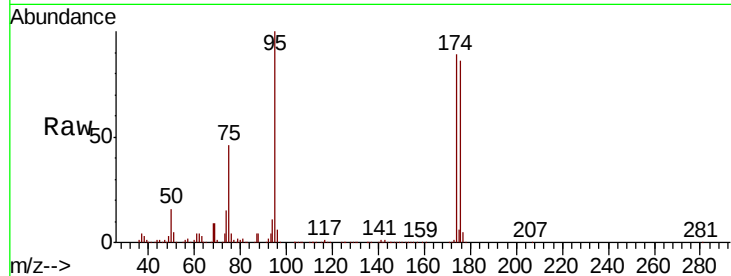
Tot Ion: 95 Resp: 837119

Ion Ratio Lower Upper

95 100

174 89.6 0.0 178.8

176 87.0 0.0 173.8



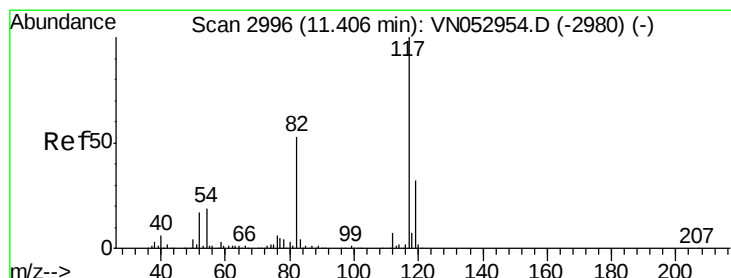
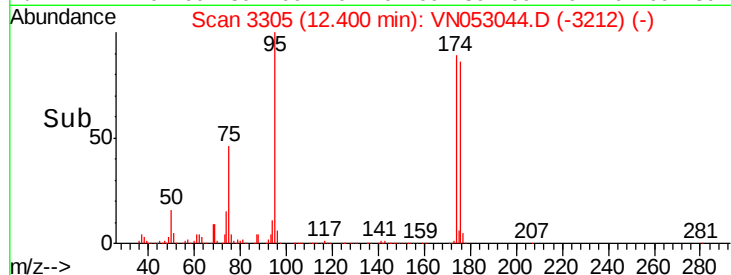
Abundance Ion 94.90 (94.60 to 95.60): VN052954.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN052954.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN052954.D (-3290) (-)

Time-->

12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN053044.D

Acq: 20 Dec 2018 9:41

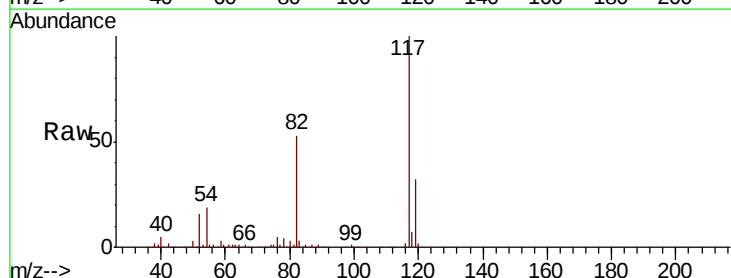
Tgt Ion: 117 Resp: 1841250

Ion Ratio Lower Upper

117 100

82 52.9 42.8 64.2

119 32.0 25.5 38.3



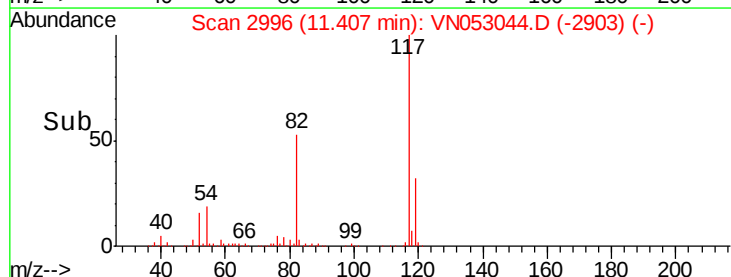
Abundance Ion 116.90 (116.60 to 117.60): VN052954.D (-2980) (-)

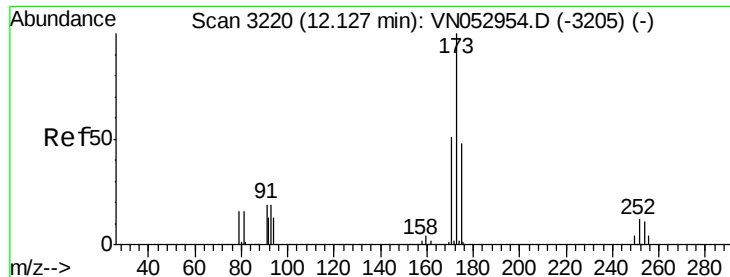
Ion 82.00 (81.70 to 82.70): VN052954.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN052954.D (-2980) (-)

Time-->

11.30 11.40 11.50





#71

Bromoform

Concen: 0.472 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN053044.D

Acq: 20 Dec 2018 9:41

Instrument :

MSVOA_N

ClientSampleId :

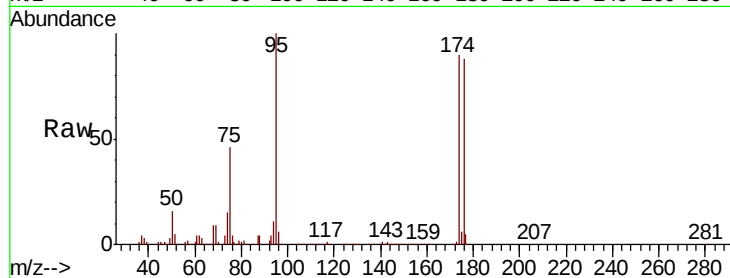
Tot Ion:173 Resp: 4840

Ion Ratio Lower Upper

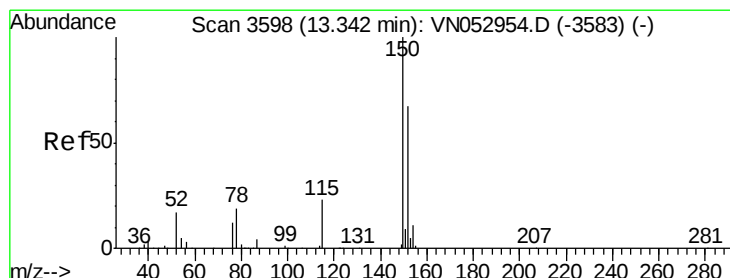
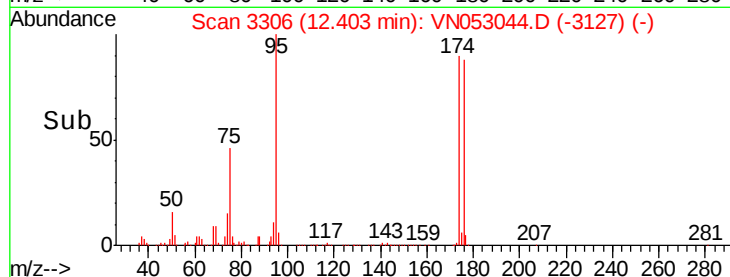
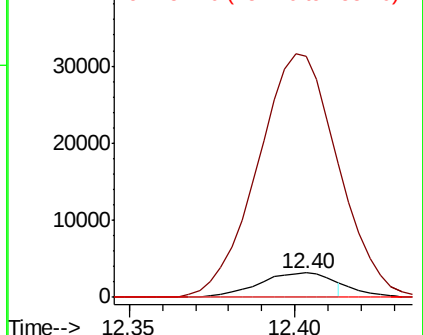
173 100

175 979.5 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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN053044.D

Acq: 20 Dec 2018 9:41

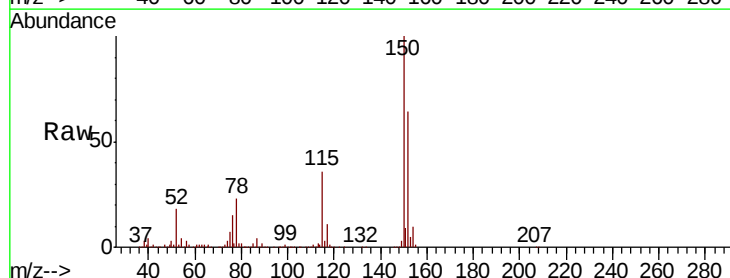
Tgt Ion:152 Resp: 738117

Ion Ratio Lower Upper

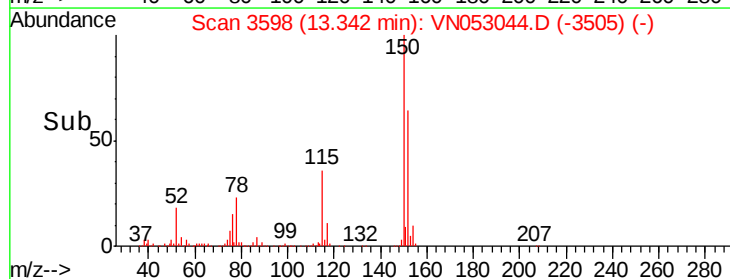
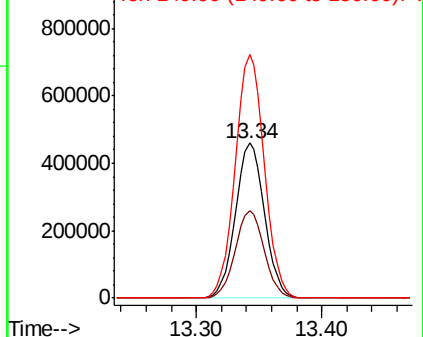
152 100

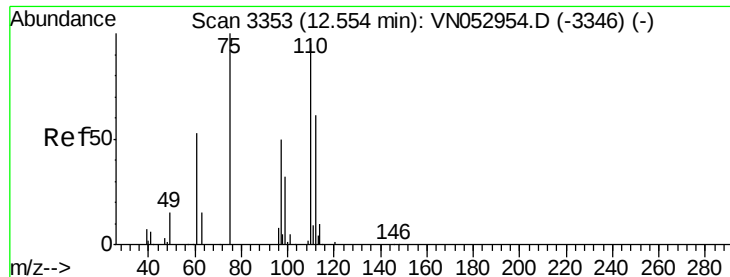
115 56.3 28.3 85.0

150 157.7 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





#76

1,2,3-Trichloropropane

Concen: 30.922 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053044.D

Acq: 20 Dec 2018 9:41

Instrument :

MSVOA_N

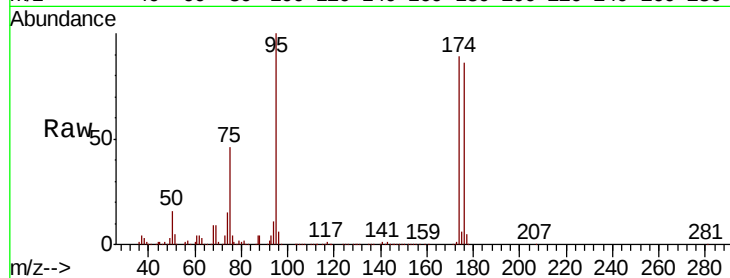
ClientSampleId :

Tot Ion: 75 Resp: 384220

Ion Ratio Lower Upper

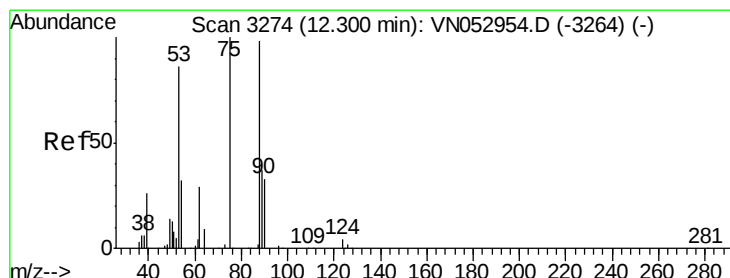
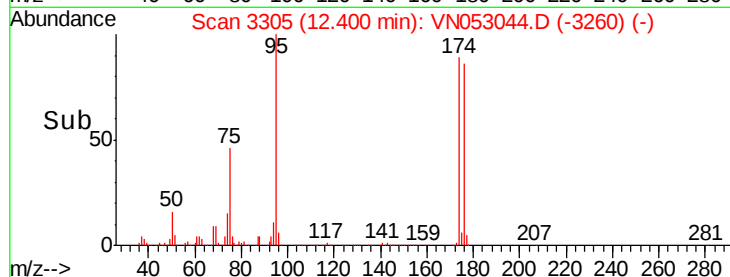
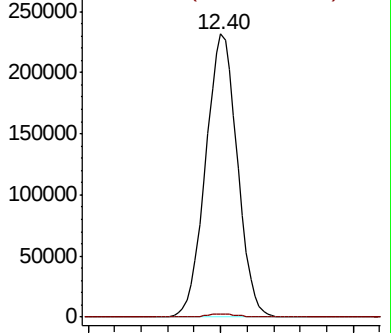
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 99.665 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053044.D

Acq: 20 Dec 2018 9:41

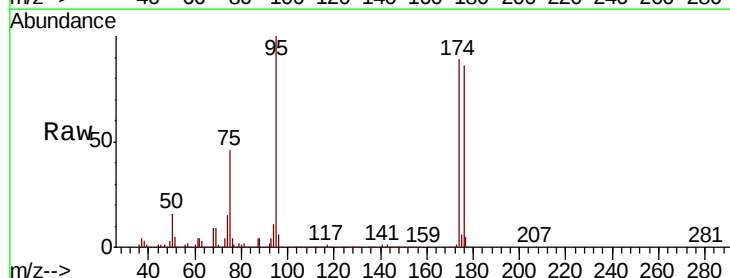
Tgt Ion: 75 Resp: 384220

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

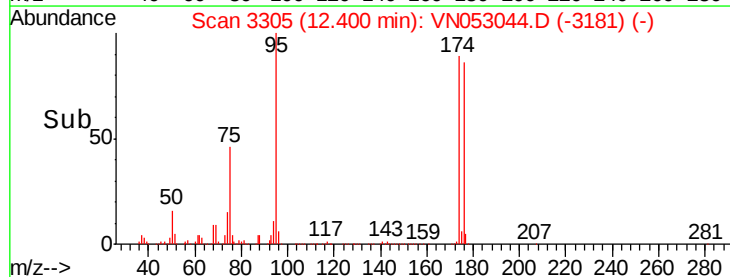
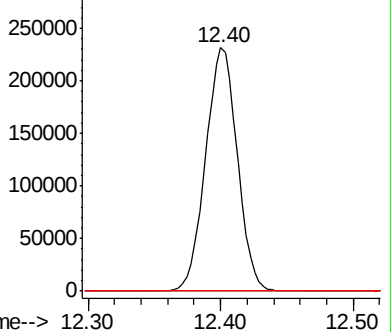
89 0.0 36.1 54.1#

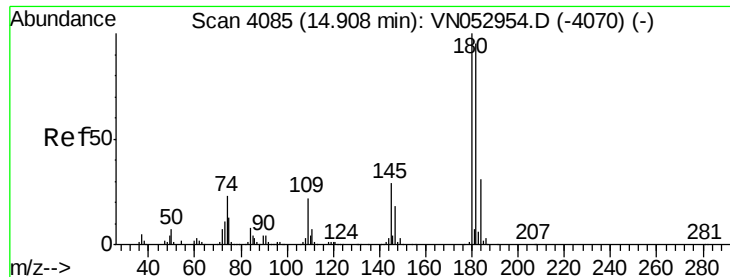


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

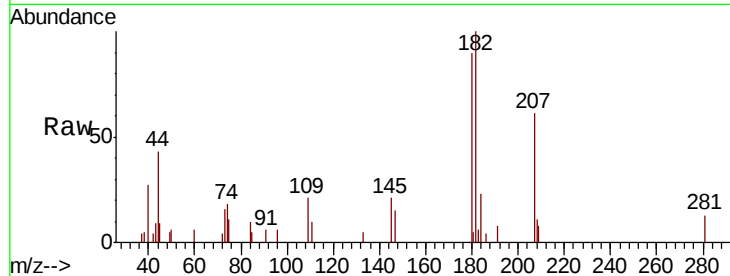




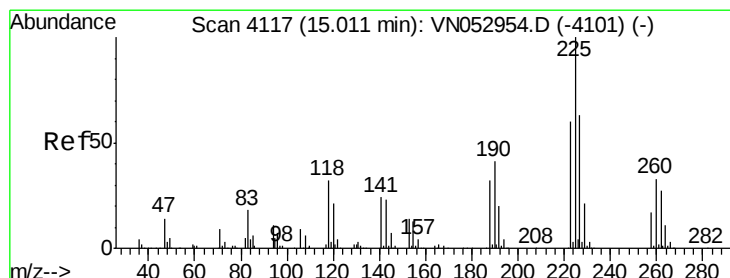
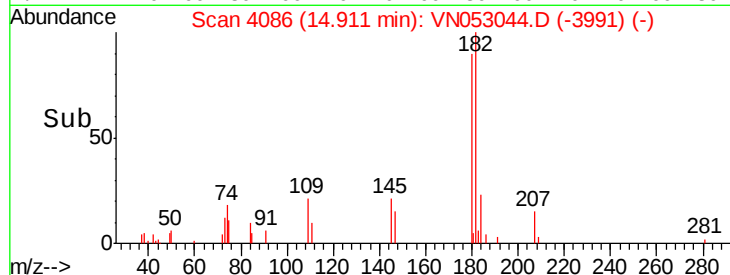
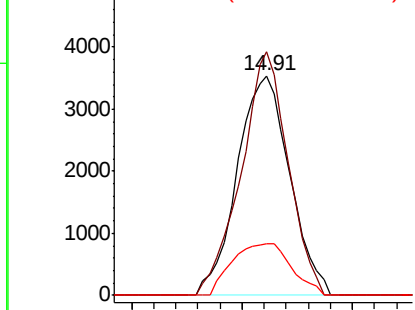
#93
 1,2,4-Trichlorobenzene
 Concen: 1.031 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN053044.D
 Acq: 20 Dec 2018 9:41

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 5831
 Ion Ratio Lower Upper
 180 100
 182 99.2 47.8 143.3
 145 26.6 14.2 42.6

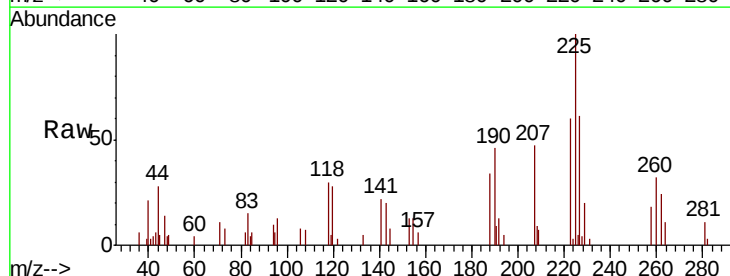


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

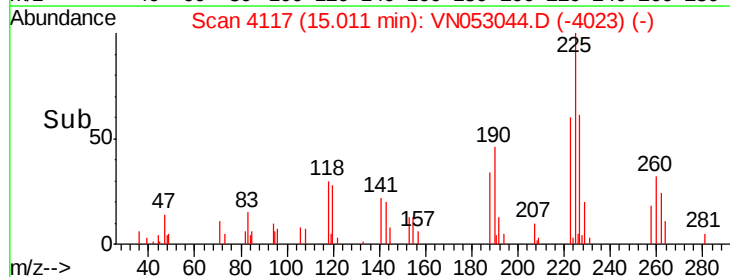
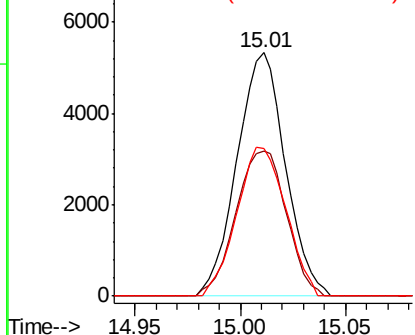


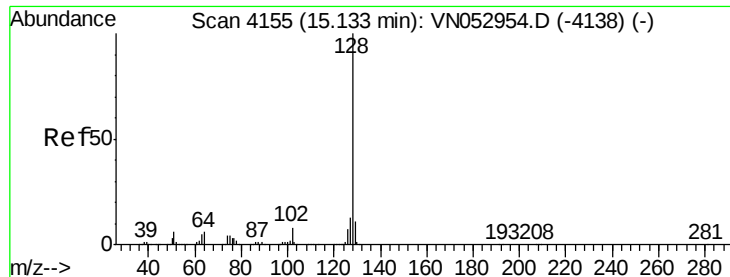
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053044.D
 Acq: 20 Dec 2018 9:41

Tgt Ion:225 Resp: 8497
 Ion Ratio Lower Upper
 225 100
 223 62.4 31.5 94.5
 227 61.9 31.9 95.7



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 1.699 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053044.D

Acq: 20 Dec 2018 9:41

Instrument :

MSVOA_N

ClientSampleId :

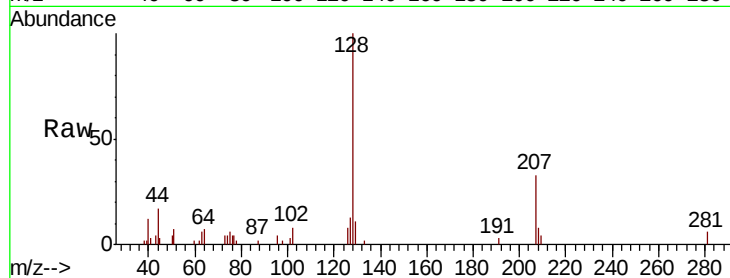
Tot Ion:128 Resp: 16407

Ion Ratio Lower Upper

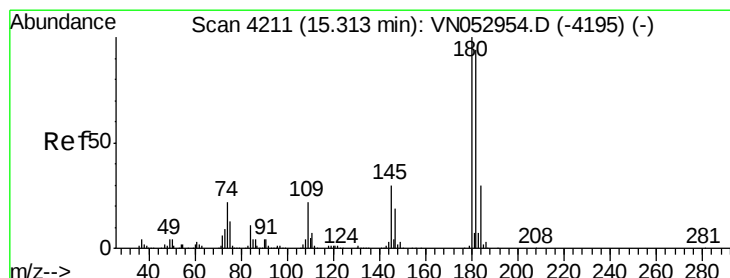
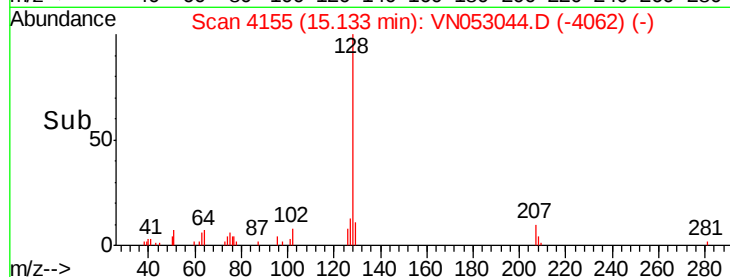
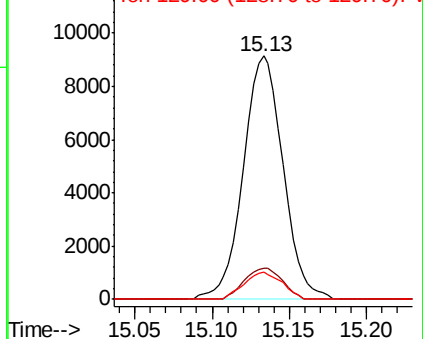
128 100

127 12.3 10.2 15.4

129 10.6 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: 1.135 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN053044.D

Acq: 20 Dec 2018 9:41

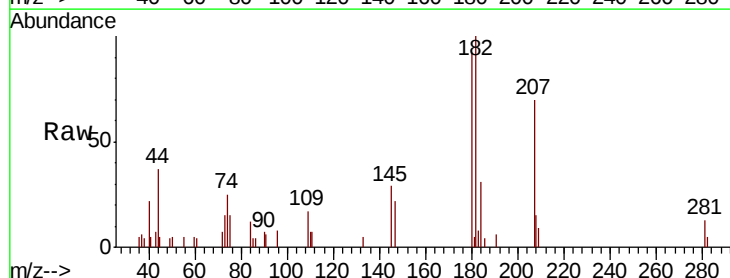
Tgt Ion:180 Resp: 7556

Ion Ratio Lower Upper

180 100

182 92.9 47.9 143.7

145 26.8 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

