

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020119\
 Data File : VN053578.D
 Acq On : 1 Feb 2019 16:01
 Operator : JC/SP
 Sample : PB116733TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB116733TB

Quant Time: Feb 01 22:50:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	791354	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1293917	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1182870	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	498265	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	417835	52.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.26%	
35) Dibromofluoromethane	7.59	113	410331	50.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.38%	
50) Toluene-d8	10.09	98	1562174	50.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.78%	
62) 4-Bromofluorobenzene	12.40	95	524404	51.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.44%	

Target Compounds

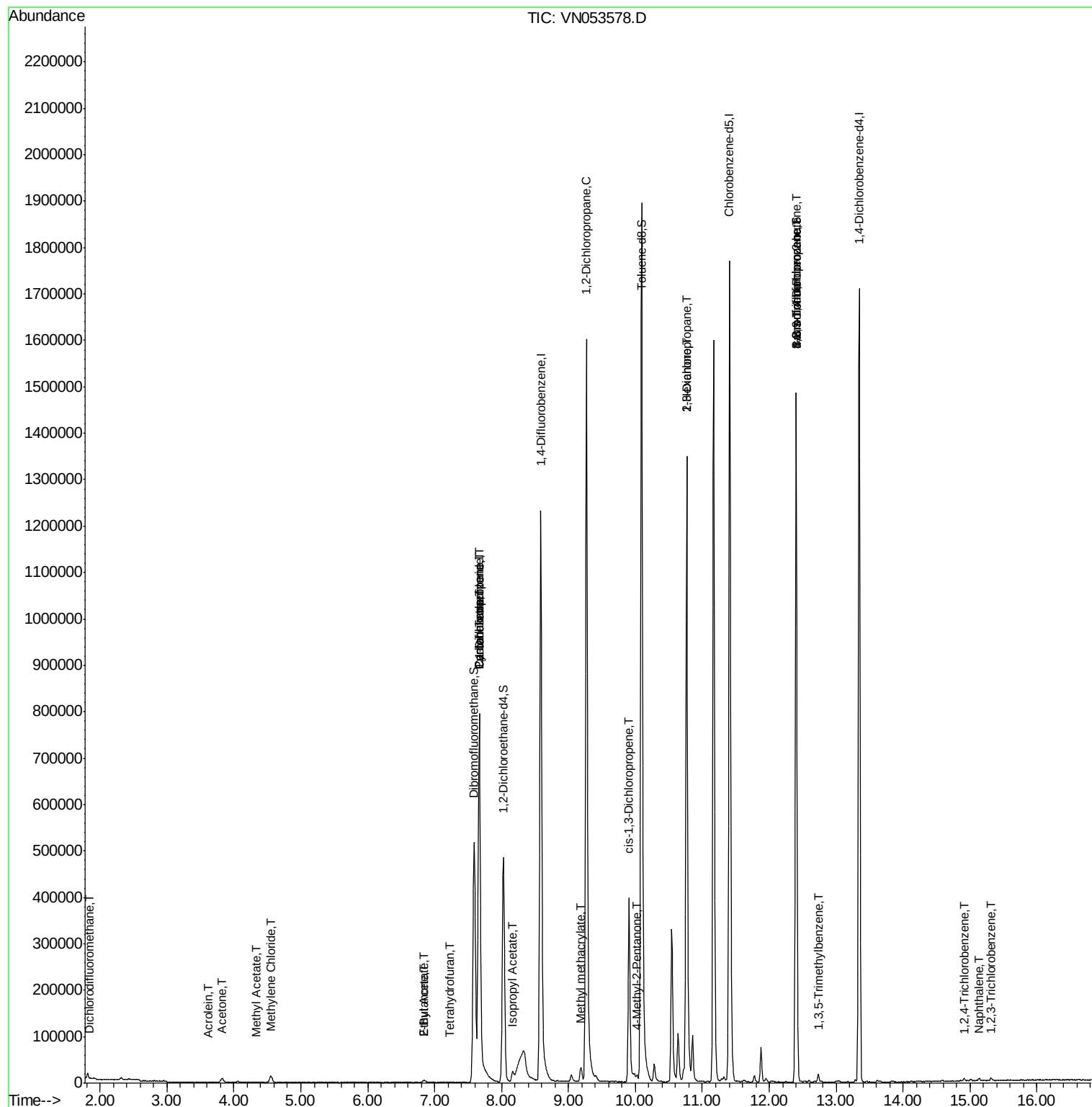
						Qvalue
2) Dichlorodifluoromethane	1.85	85	280	0.369	ug/l #	42
13) Acrolein	3.62	56	63	0.246	ug/l #	68
16) Acetone	3.82	43	16687	8.195	ug/l	94
18) Methyl Acetate	4.34	43	2649	0.439	ug/l #	58
20) Methylene Chloride	4.55	84	11193	1.310	ug/l #	89
25) 2-Butanone	6.85	43	7714	2.656	ug/l	94
29) Tetrahydrofuran	7.21	42	703	0.377	ug/l	95
31) Cyclohexane	7.66	56	11179	0.666	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	49117	4.211	ug/l #	47
37) Ethyl Acetate	6.85	43	7714	1.184	ug/l #	70
38) Carbon Tetrachloride	7.67	117	64243	5.467	ug/l #	16
43) Isopropyl Acetate	8.17	43	30935	2.459	ug/l #	88
45) 1,2-Dichloropropane	9.27	63	2054	0.223	ug/l #	43
48) Methyl methacrylate	9.18	41	11950	1.990	ug/l #	12
51) 4-Methyl-2-Pentanone	10.02	43	10064	1.628	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	84263	6.159	ug/l #	61
57) 1,3-Dichloropropane	10.77	76	15536	1.182	ug/l #	43
59) 2-Hexanone	10.77	43	209572	49.936	ug/l #	51
71) Bromoform	12.40	173	3490	0.580	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	243406	38.033	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7778	0.268	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	243406	106.945	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	2413	0.259	ug/l	93
95) Naphthalene	15.14	128	5184	1.965	ug/l	98
96) 1,2,3-Trichlorobenzene	15.32	180	2611	0.302	ug/l	87

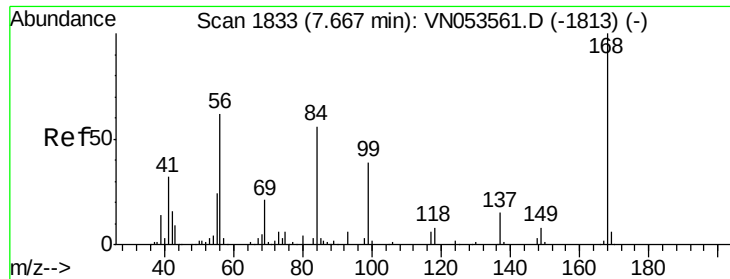
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN020119\
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Acq On : 1 Feb 2019 16:01
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Sample : PB116733TB
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ALS Vial : 7 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
PB116733TB

Quant Time: Feb 01 22:50:42 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 01 09:11:52 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053578.D

Acq: 1 Feb 2019 16:01

Instrument :

MSVOA_N

ClientSampled :

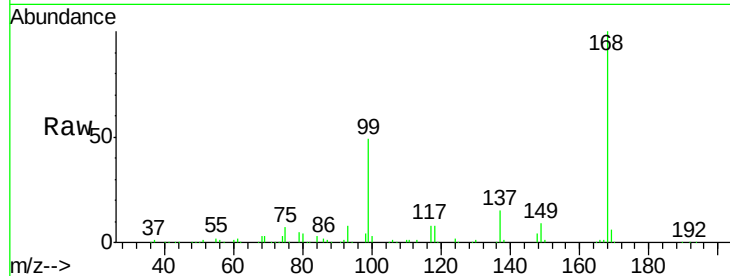
PB116733TB

Tot Ion:168 Resp: 791354

Ion Ratio Lower Upper

168 100

99 49.4 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

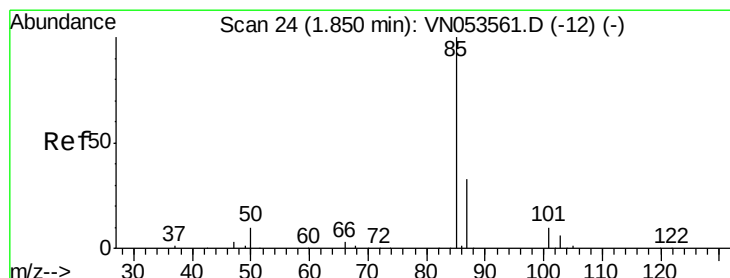
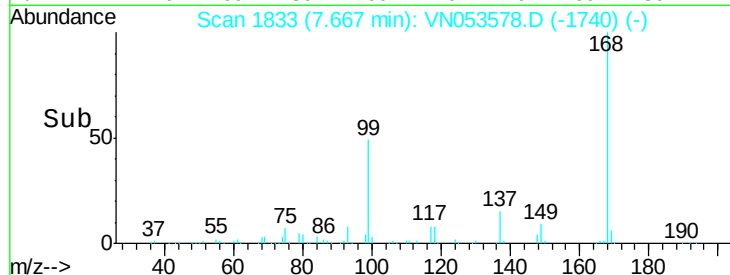
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80



#2

Dichlorodifluoromethane

Concen: 0.369 ug/l

RT: 1.85 min Scan# 23

Delta R.T. -0.00 min

Lab File: VN053578.D

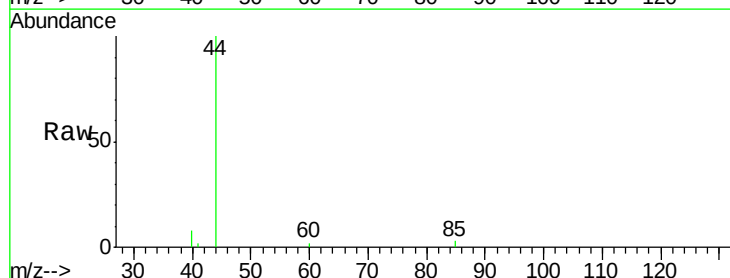
Acq: 1 Feb 2019 16:01

Tgt Ion: 85 Resp: 280

Ion Ratio Lower Upper

85 100

87 0.0 16.2 48.5#



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

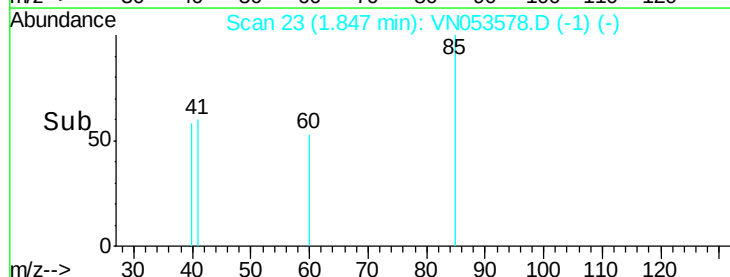
300

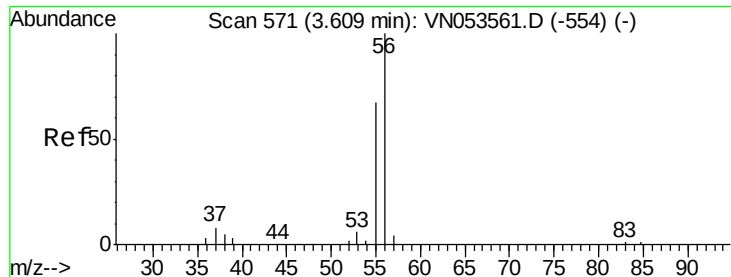
200

100

0

Time--> 1.82 1.84 1.86





#13

Acrolein

Concen: 0.246 ug/l

RT: 3.62 min Scan# 574

Delta R.T. 0.01 min

Lab File: VN053578.D

Acq: 1 Feb 2019 16:01

Instrument :

MSVOA_N

ClientSampleId :

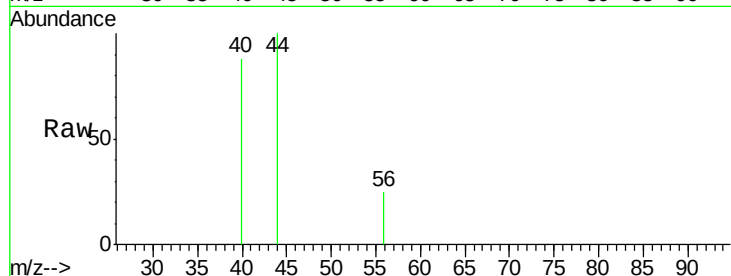
PB116733TB

Tot Ion: 56 Resp: 63

Ion Ratio Lower Upper

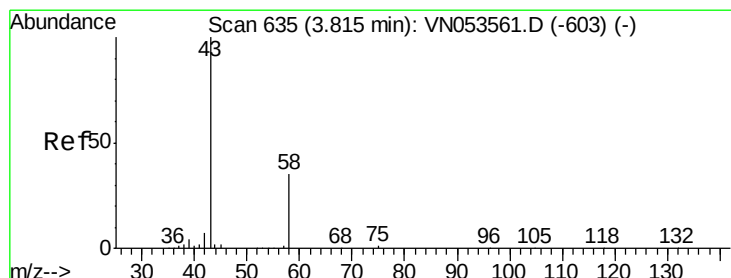
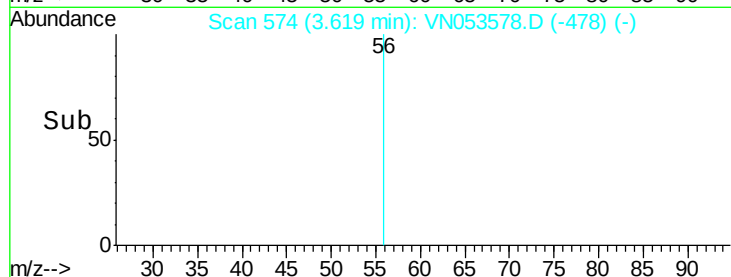
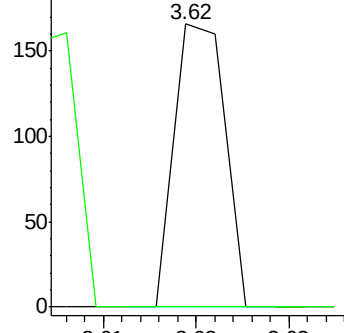
56 100

55 98.4 57.4 86.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 8.195 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053578.D

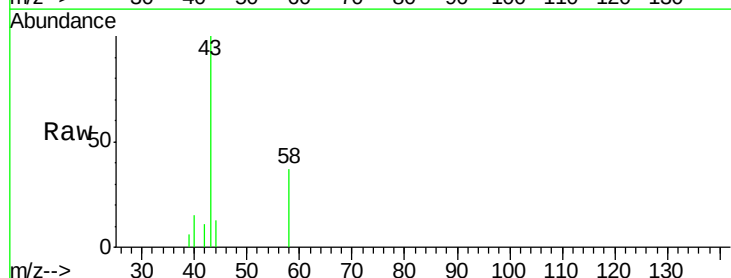
Acq: 1 Feb 2019 16:01

Tgt Ion: 43 Resp: 16687

Ion Ratio Lower Upper

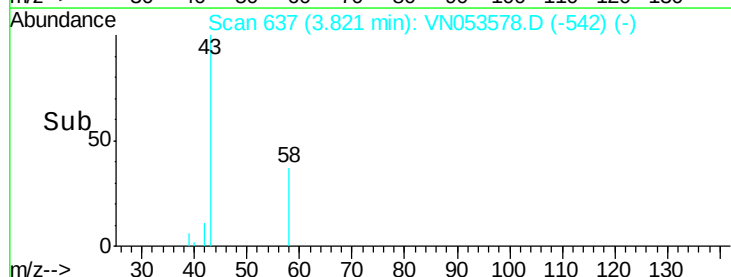
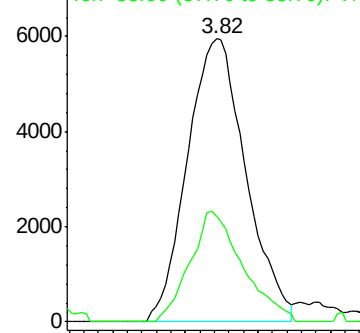
43 100

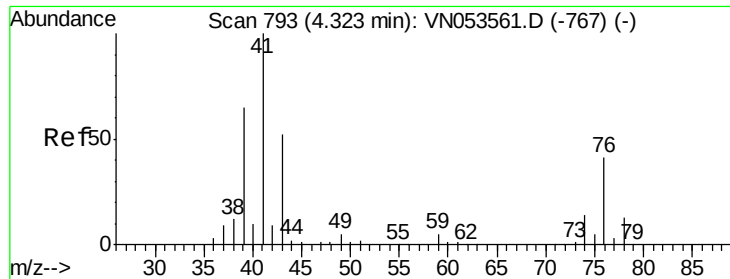
58 37.0 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#18

Methyl Acetate

Concen: 0.439 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN053578.D

Acq: 1 Feb 2019 16:01

Instrument :

MSVOA_N

ClientSampled :

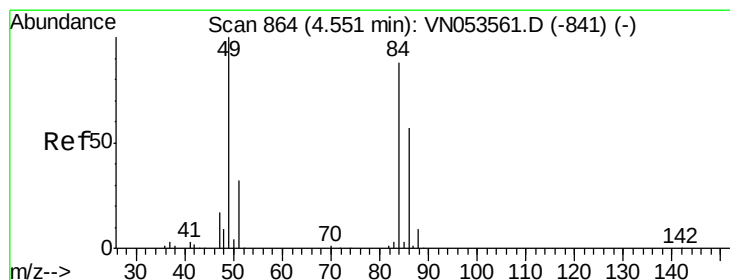
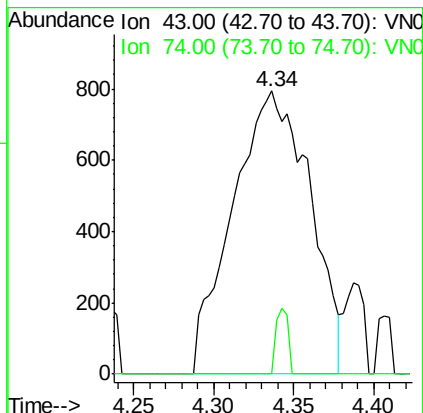
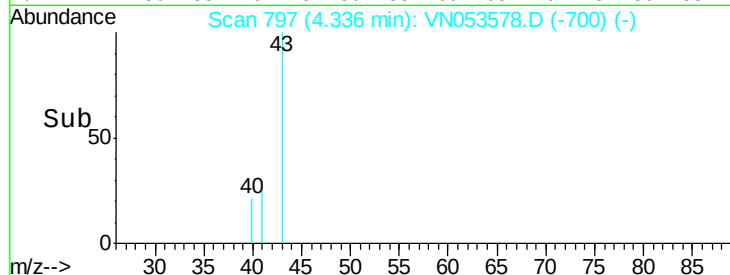
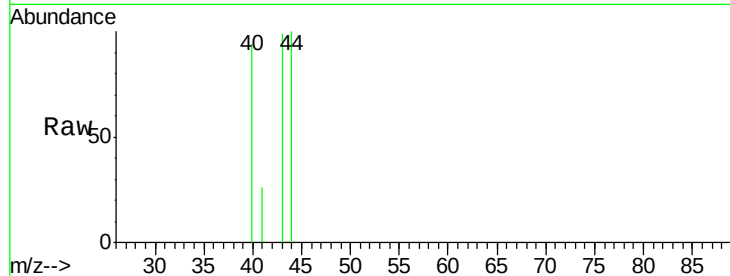
PB116733TB

Tot Ion: 43 Resp: 2649

Ion Ratio Lower Upper

43 100

74 3.6 19.4 29.2#



#20

Methylene Chloride

Concen: 1.310 ug/l

RT: 4.55 min Scan# 864

Delta R.T. 0.00 min

Lab File: VN053578.D

Acq: 1 Feb 2019 16:01

Tgt Ion: 84 Resp: 11193

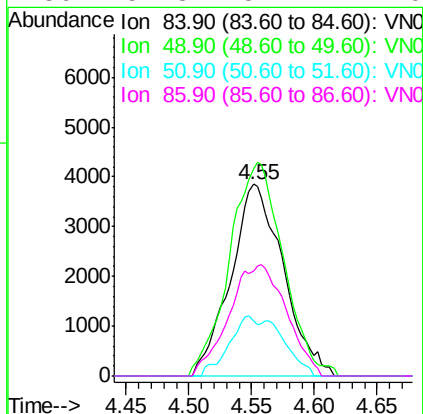
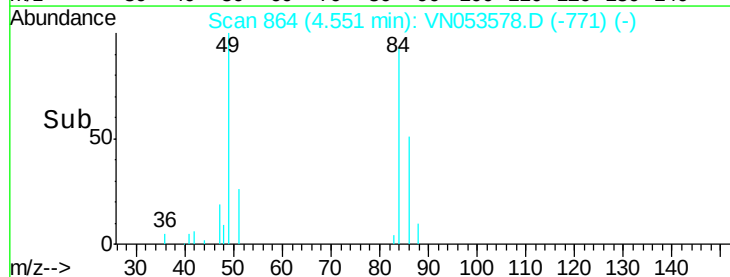
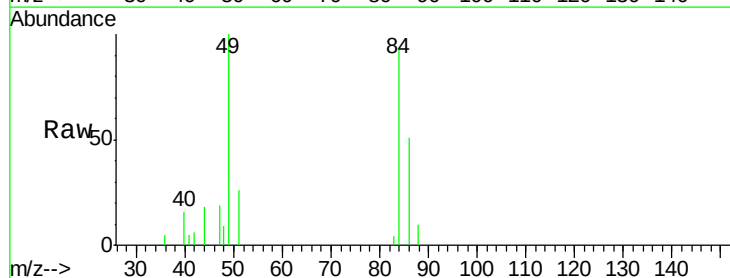
Ion Ratio Lower Upper

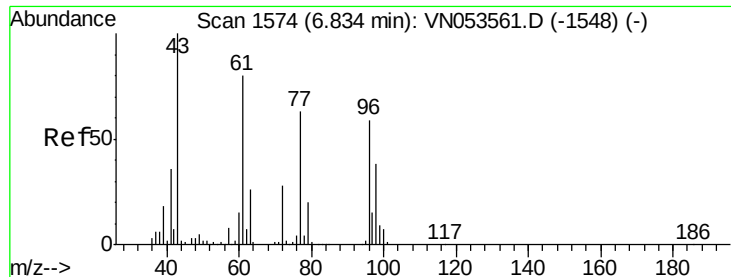
84 100

49 108.1 94.3 141.5

51 28.6 29.4 44.2#

86 54.8 51.4 77.0

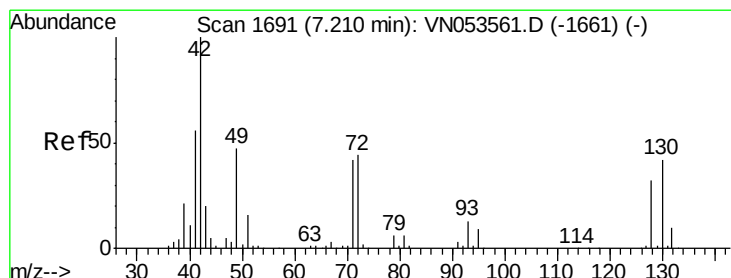
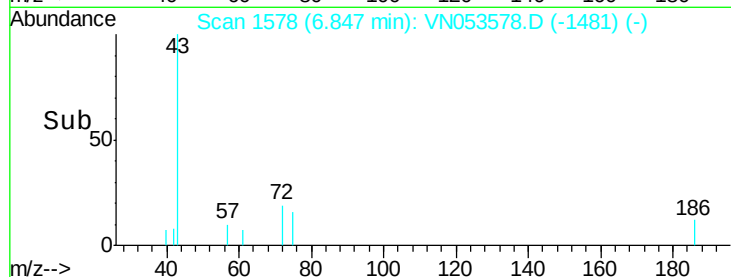
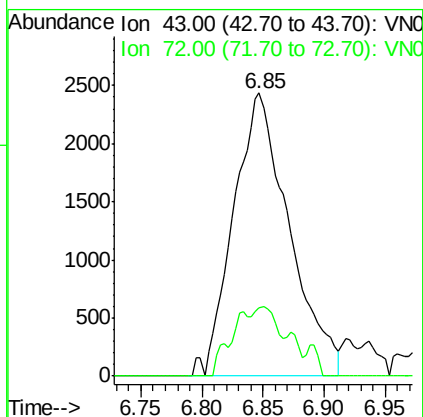
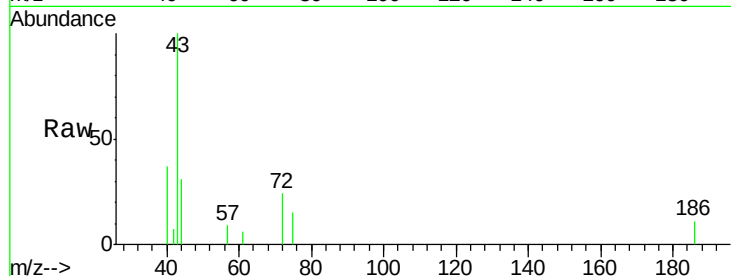




#25
2-Butanone
Concen: 2.656 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN053578.D
Acq: 1 Feb 2019 16:01

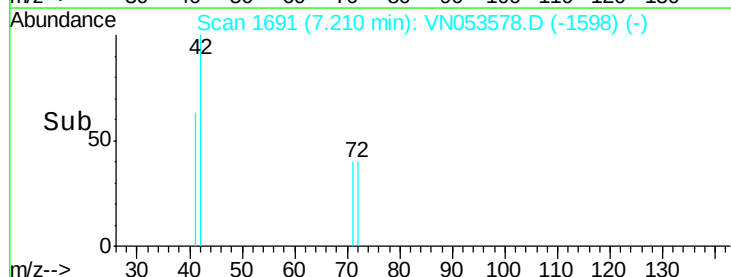
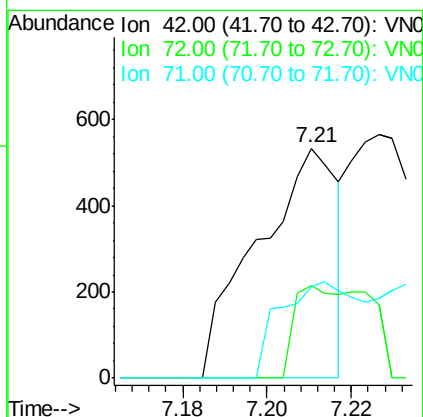
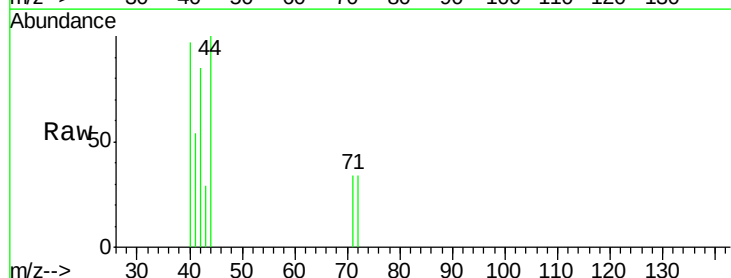
Instrument :
MSVOA_N
ClientSampled :
PB116733TB

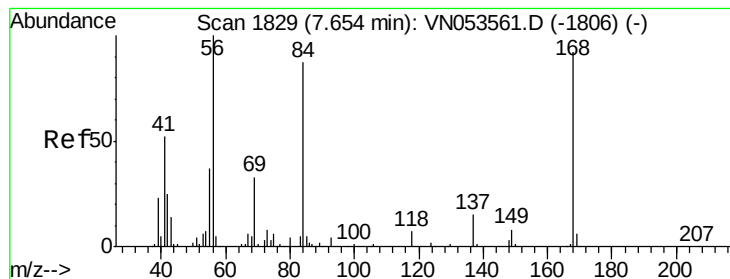
Tot Ion: 43 Resp: 7714
Ion Ratio Lower Upper
43 100
72 24.4 22.0 33.0



#29
Tetrahydrofuran
Concen: 0.377 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053578.D
Acq: 1 Feb 2019 16:01

Tgt Ion: 42 Resp: 703
Ion Ratio Lower Upper
42 100
72 37.7 35.2 52.8
71 41.3 33.0 49.4





#31

Cyclohexane

Concen: 0.666 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN053578.D

Acq: 1 Feb 2019 16:01

Instrument :

MSVOA_N

ClientSampleID :

PB116733TB

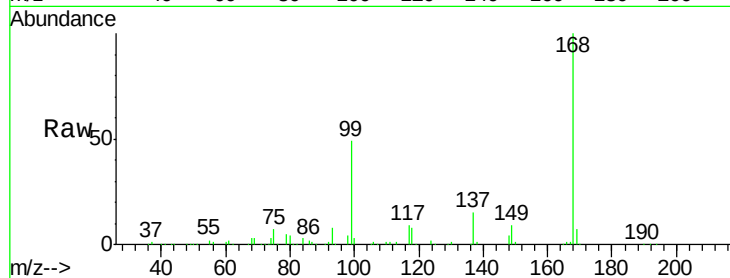
Tot Ion: 56 Resp: 11179

Ion Ratio Lower Upper

56 100

69 193.8 26.4 39.6#

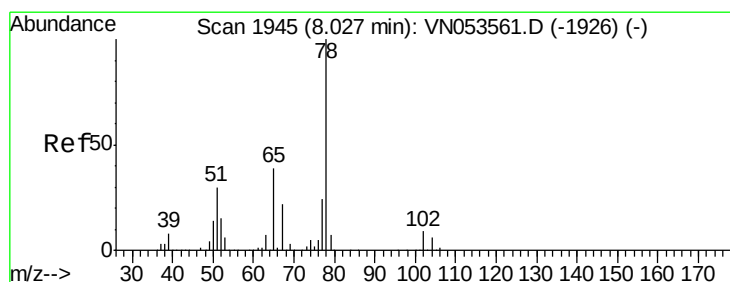
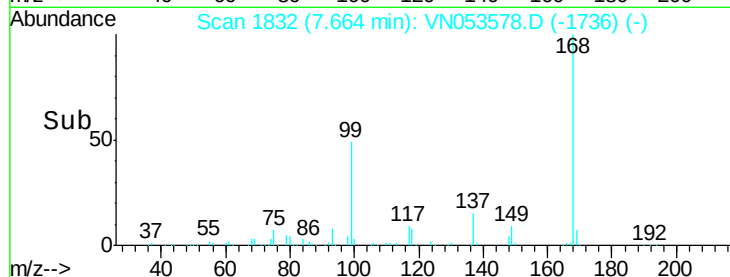
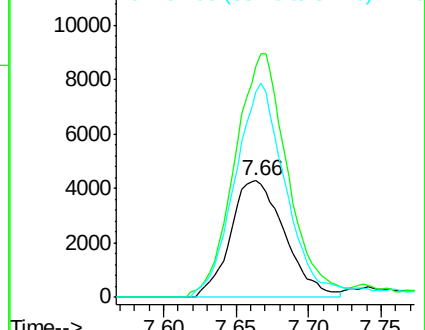
84 176.2 67.9 101.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053578.D

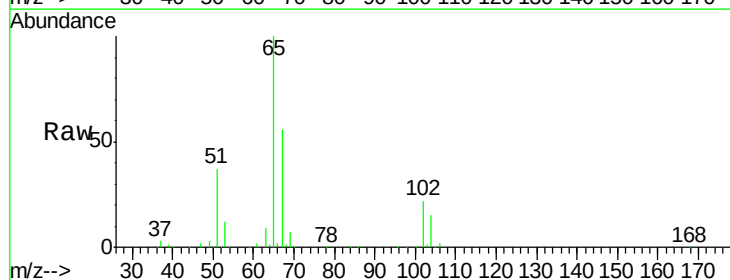
Acq: 1 Feb 2019 16:01

Tgt Ion: 65 Resp: 417835

Ion Ratio Lower Upper

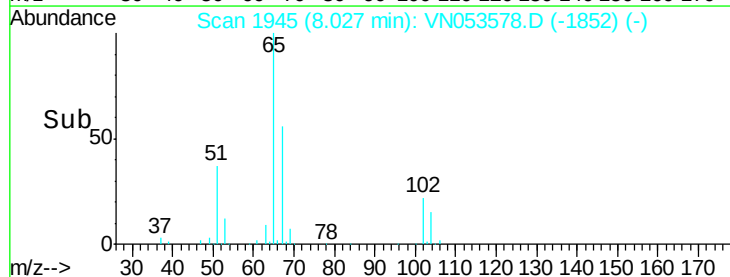
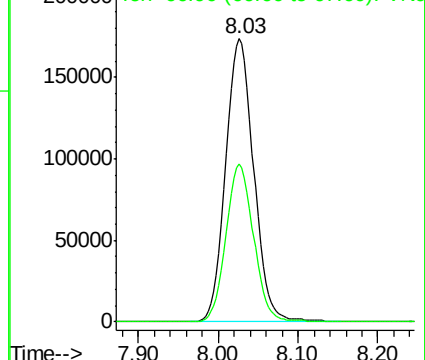
65 100

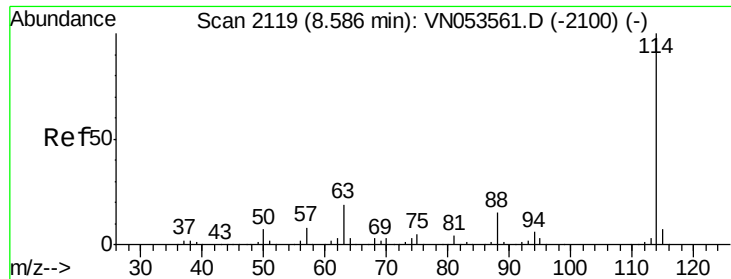
67 54.8 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

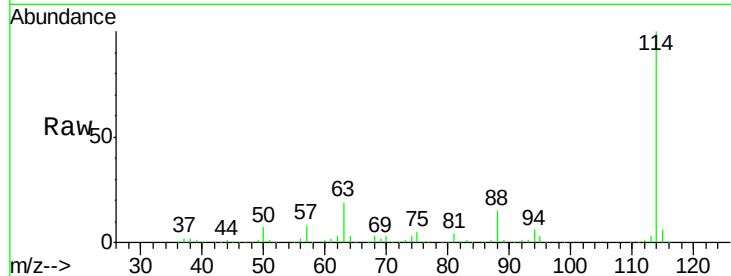




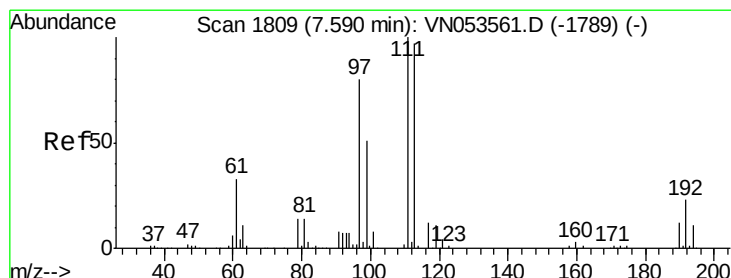
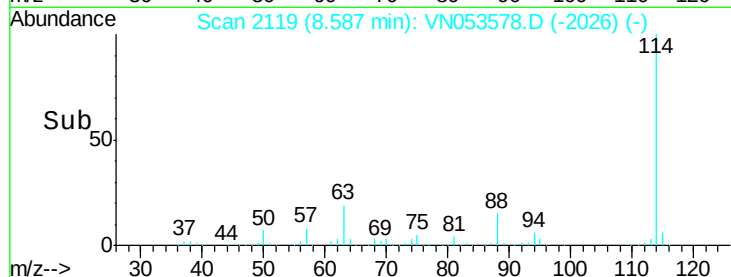
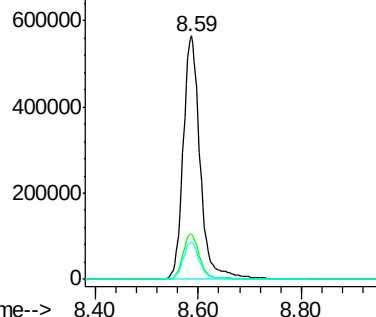
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN053578.D
Acq: 1 Feb 2019 16:01

Instrument :
MSVOA_N
ClientSampleId :
PB116733TB

Tot Ion:114 Resp: 1293917
Ion Ratio Lower Upper
114 100
63 18.7 0.0 38.6
88 15.4 0.0 30.4

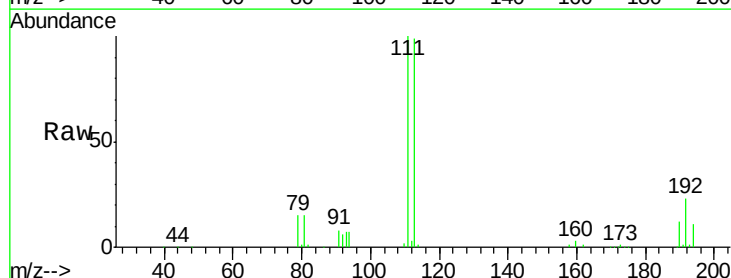


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): V
Ion 87.90 (87.60 to 88.60): V

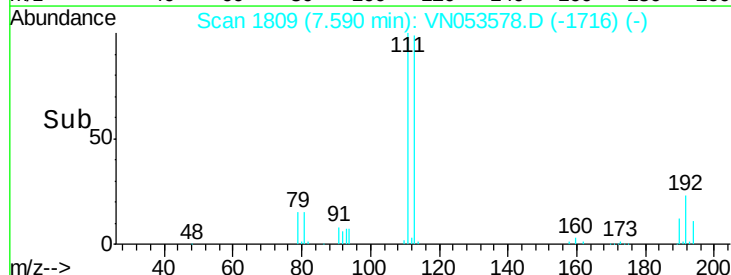
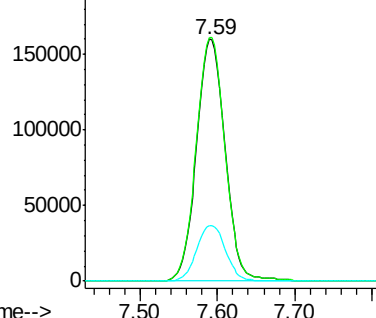


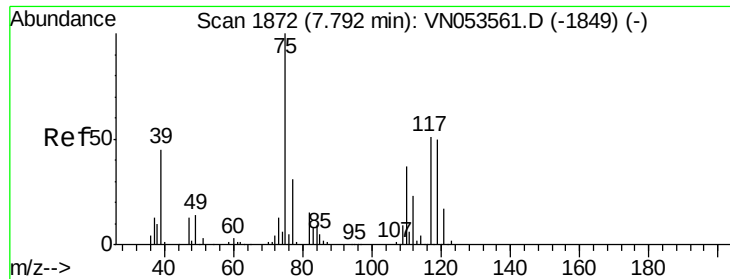
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN053578.D
Acq: 1 Feb 2019 16:01

Tgt Ion:113 Resp: 410331
Ion Ratio Lower Upper
113 100
111 101.4 81.1 121.7
192 23.2 18.2 27.2



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

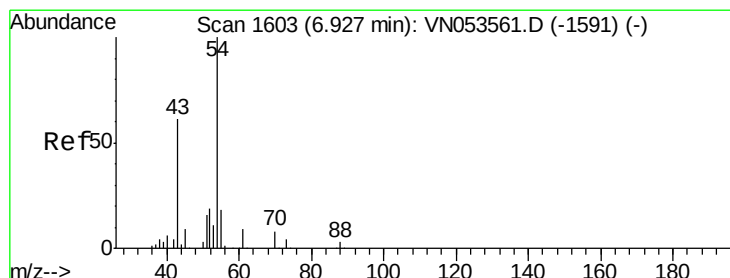
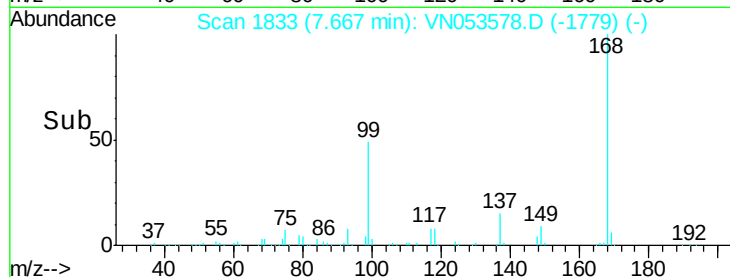
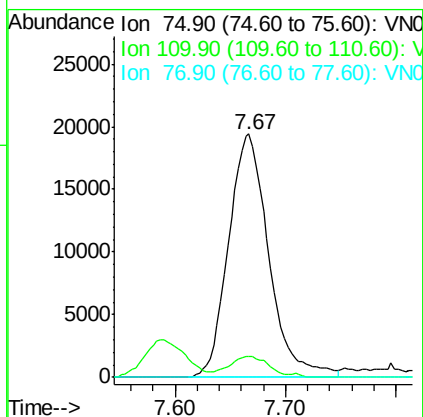
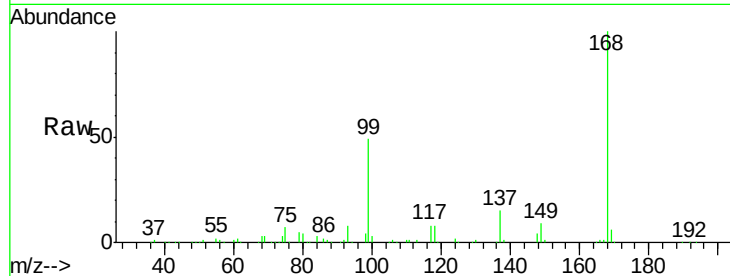




#36
 1,1-Dichloropropene
 Concen: 4.211 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN053578.D
 Acq: 1 Feb 2019 16:01

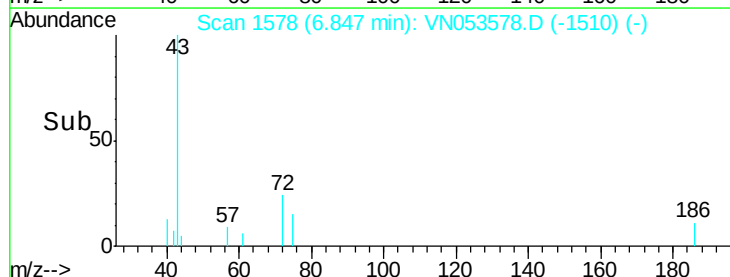
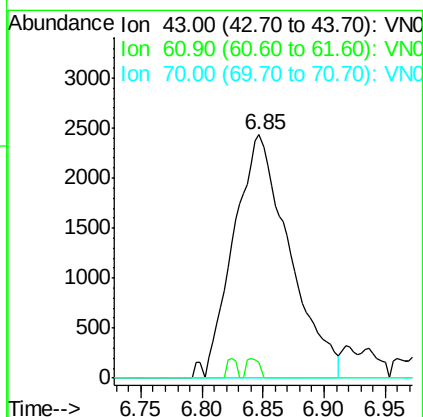
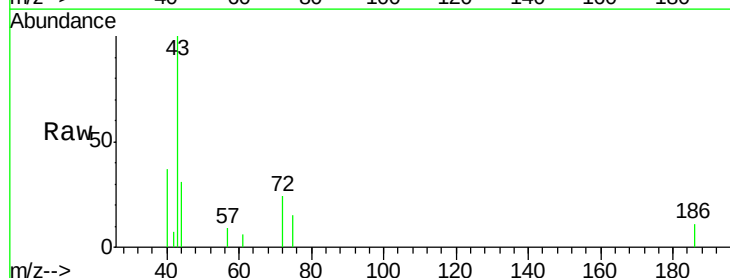
Instrument :
 MSVOA_N
 ClientSampled :
 PB116733TB

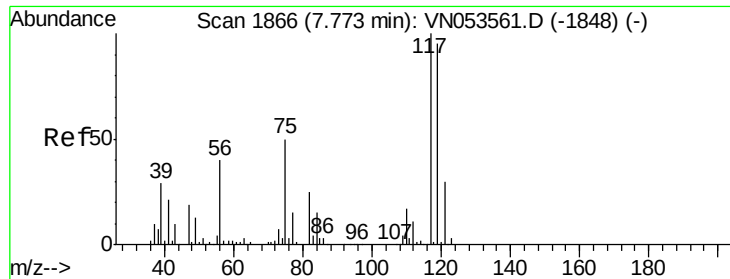
Tot Ion: 75 Resp: 49117
 Ion Ratio Lower Upper
 75 100
 110 7.0 18.1 54.3#
 77 0.0 25.1 37.7#



#37
 Ethyl Acetate
 Concen: 1.184 ug/l
 RT: 6.85 min Scan# 1578
 Delta R.T. -0.08 min
 Lab File: VN053578.D
 Acq: 1 Feb 2019 16:01

Tgt Ion: 43 Resp: 7714
 Ion Ratio Lower Upper
 43 100
 61 1.8 11.8 17.6#
 70 0.0 8.6 12.8#

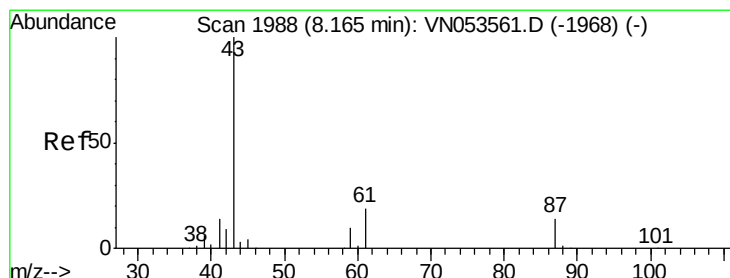
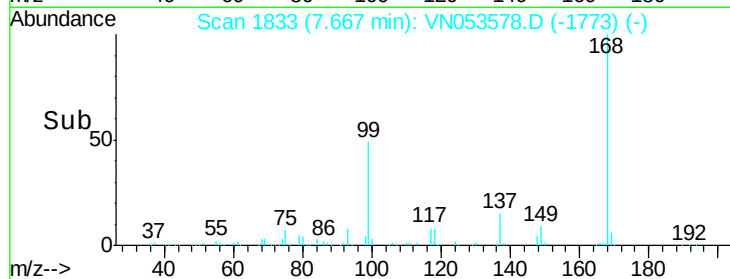
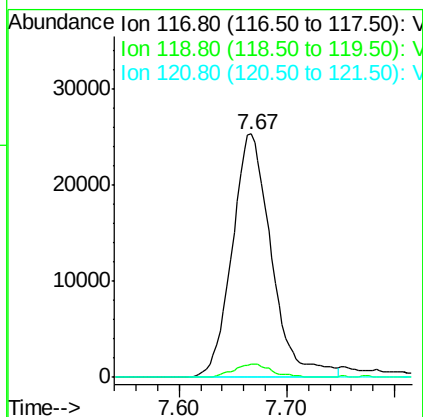
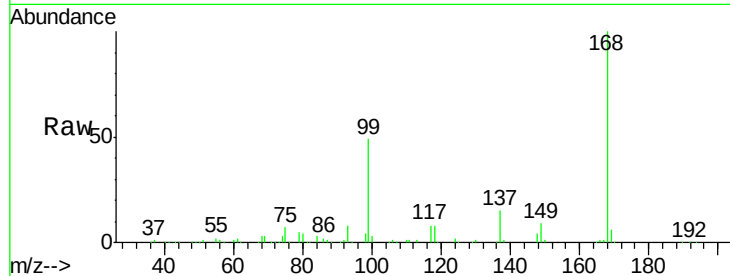




#38
Carbon Tetrachloride
Concen: 5.467 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN053578.D
Acq: 1 Feb 2019 16:01

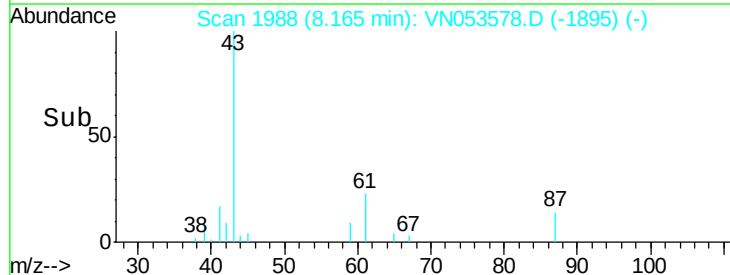
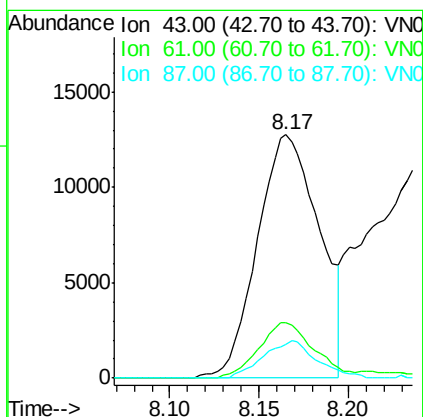
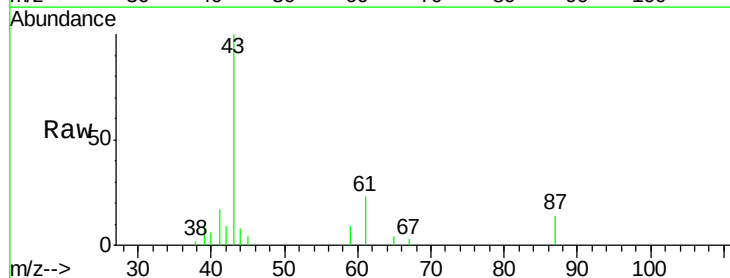
Instrument :
MSVOA_N
ClientSampleId :
PB116733TB

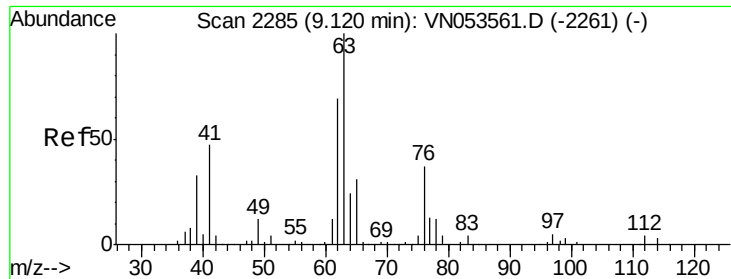
Tot Ion:117 Resp: 64243
Ion Ratio Lower Upper
117 100
119 5.3 77.2 115.8#
121 0.0 24.6 37.0#



#43
Isopropyl Acetate
Concen: 2.459 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN053578.D
Acq: 1 Feb 2019 16:01

Tgt Ion: 43 Resp: 30935
Ion Ratio Lower Upper
43 100
61 20.3 23.9 35.9#
87 13.3 11.0 16.6

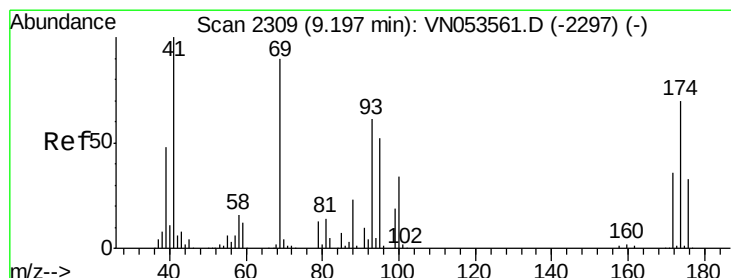
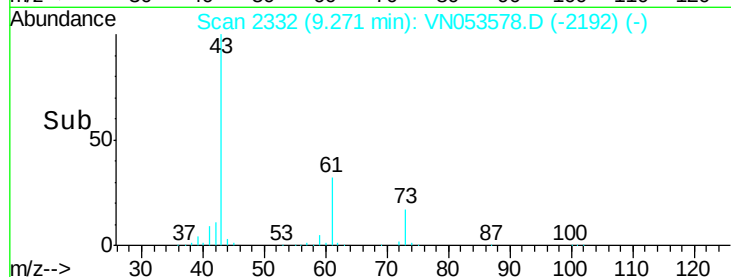
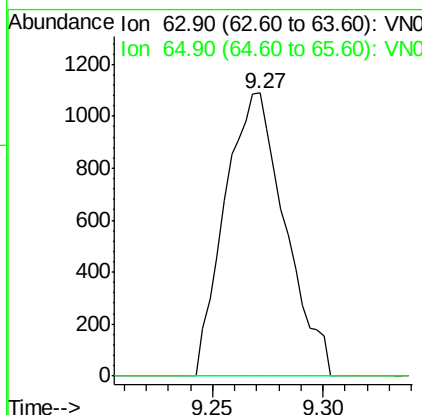
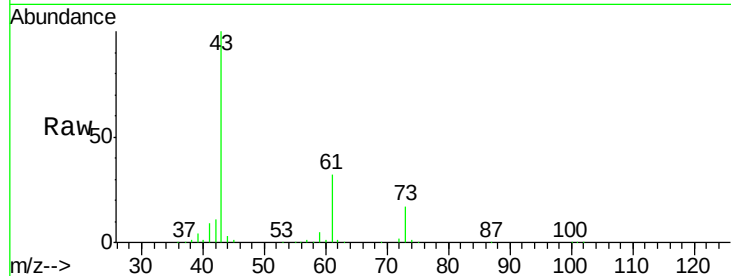




#45
 1,2-Dichloropropane
 Concen: 0.223 ug/l
 RT: 9.27 min Scan# 2332
 Delta R.T. 0.15 min
 Lab File: VN053578.D
 Acq: 1 Feb 2019 16:01

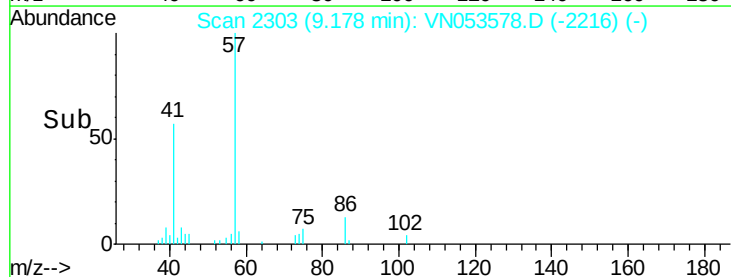
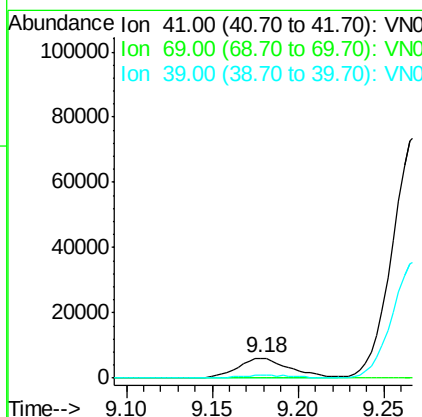
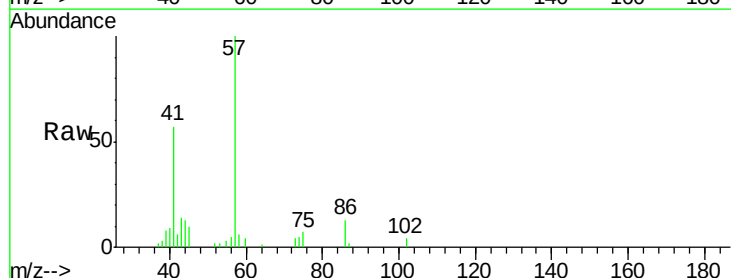
Instrument :
 MSVOA_N
 ClientSampled :
 PB116733TB

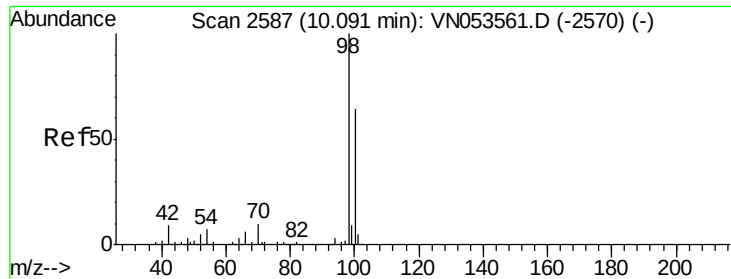
Tot Ion: 63 Resp: 2054
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.990 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN053578.D
 Acq: 1 Feb 2019 16:01

Tgt Ion: 41 Resp: 11950
 Ion Ratio Lower Upper
 41 100
 69 0.0 73.8 110.6#
 39 0.0 40.0 60.0#

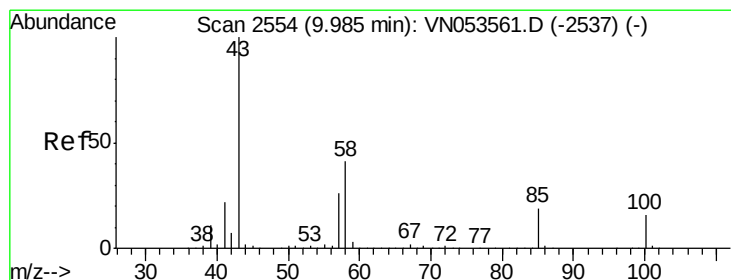
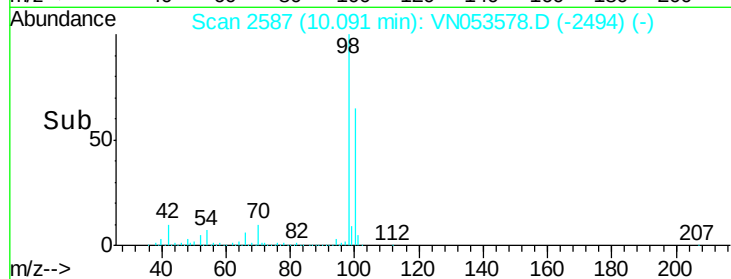
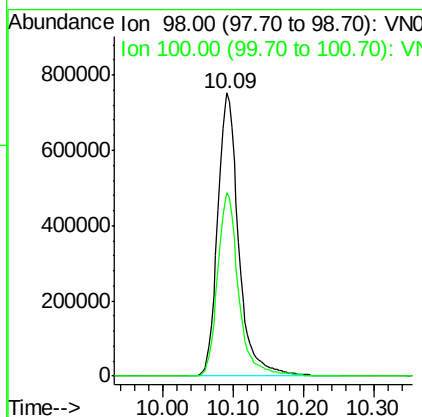
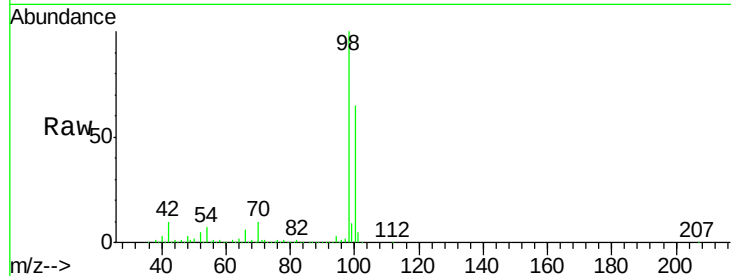




#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053578.D
Acq: 1 Feb 2019 16:01

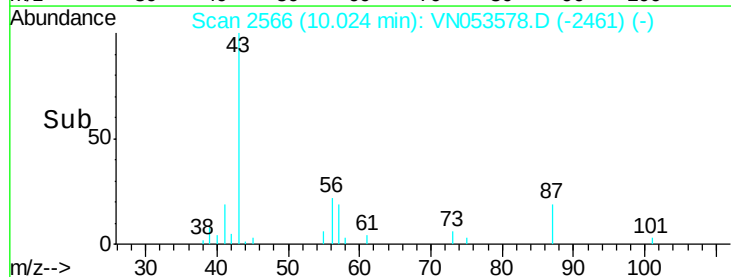
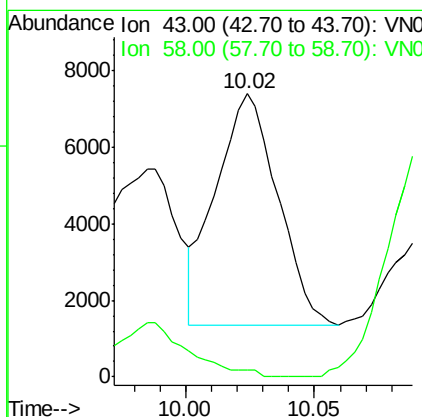
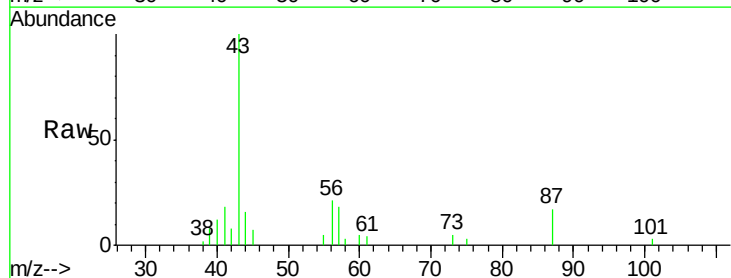
Instrument :
MSVOA_N
ClientSampleId :
PB116733TB

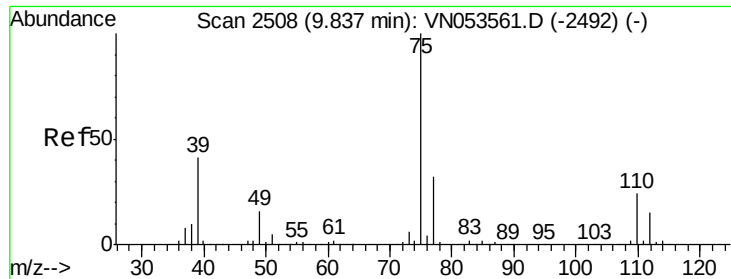
Tot Ion: 98 Resp: 1562174
Ion Ratio Lower Upper
98 100
100 64.4 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 1.628 ug/l
RT: 10.02 min Scan# 2566
Delta R.T. 0.04 min
Lab File: VN053578.D
Acq: 1 Feb 2019 16:01

Tgt Ion: 43 Resp: 10064
Ion Ratio Lower Upper
43 100
58 0.0 32.8 49.2#

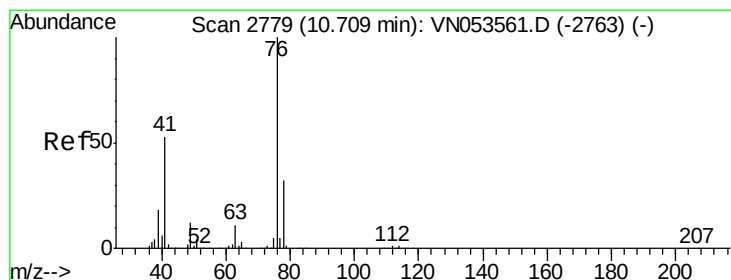
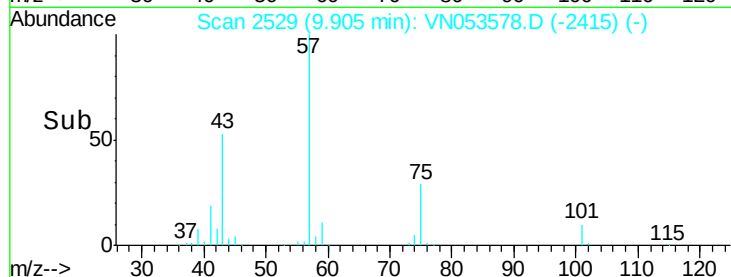
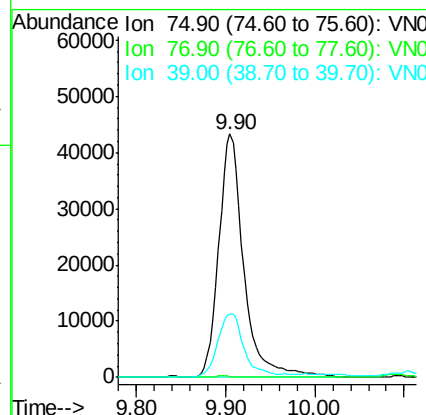
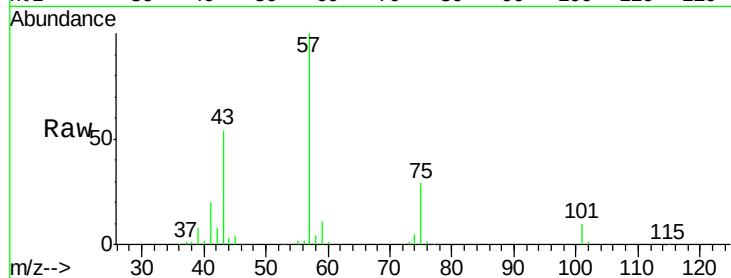




#54
 cis-1,3-Dichloropropene
 Concen: 6.159 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN053578.D
 Acq: 1 Feb 2019 16:01

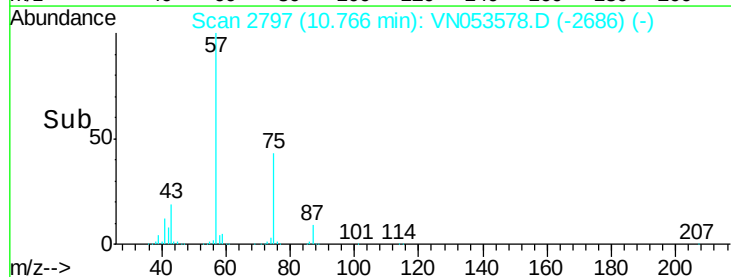
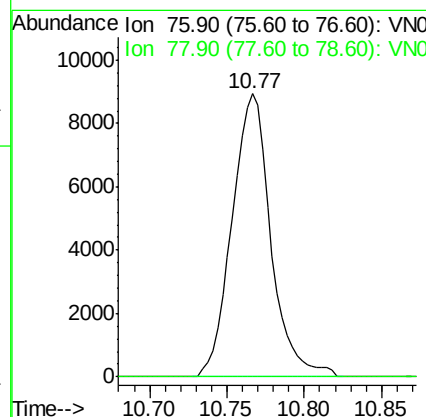
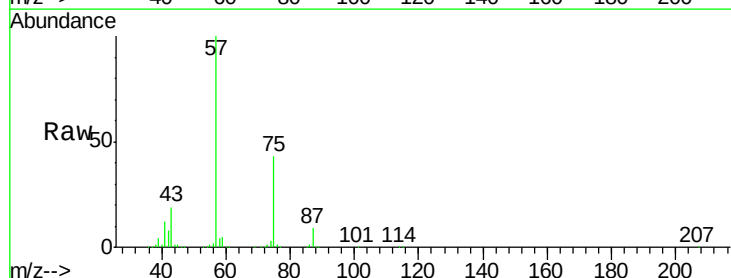
Instrument :
 MSVOA_N
 ClientSampleId :
 PB116733TB

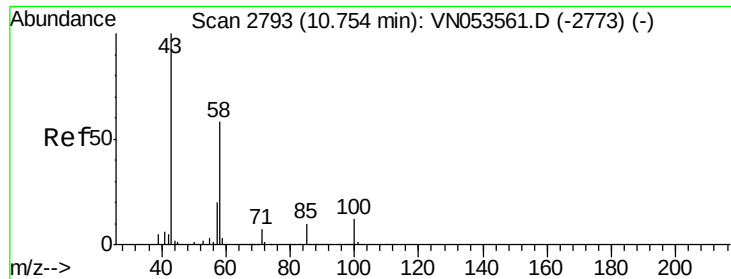
Tot Ion: 75 Resp: 84263
 Ion Ratio Lower Upper
 75 100
 77 0.4 25.8 38.6#
 39 26.1 33.4 50.0#



#57
 1,3-Dichloropropane
 Concen: 1.182 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN053578.D
 Acq: 1 Feb 2019 16:01

Tgt Ion: 76 Resp: 15536
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

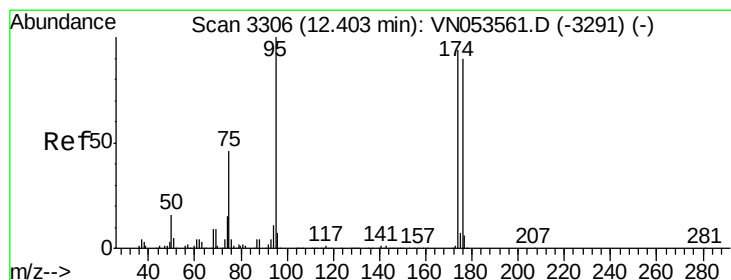
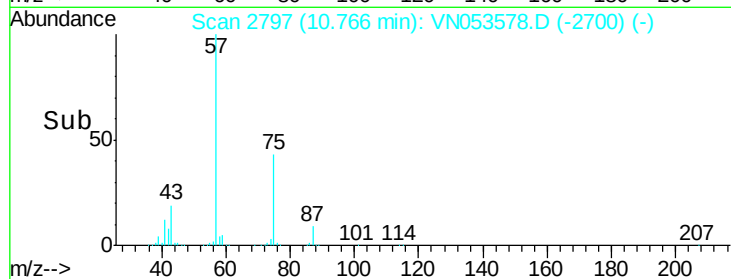
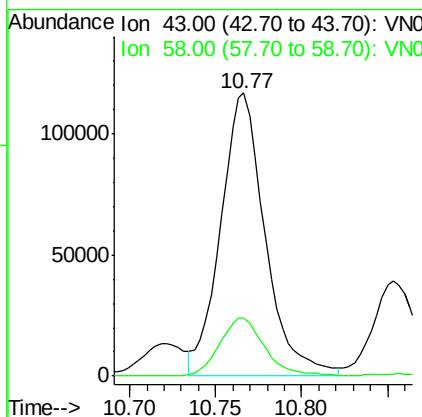
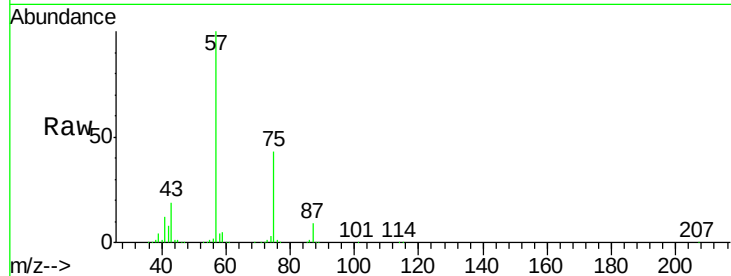




#59
2-Hexanone
Concen: 49.936 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN053578.D
Acq: 1 Feb 2019 16:01

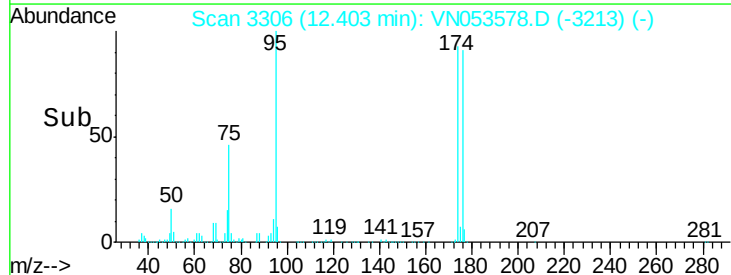
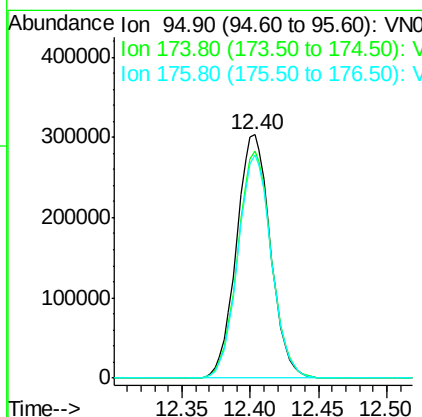
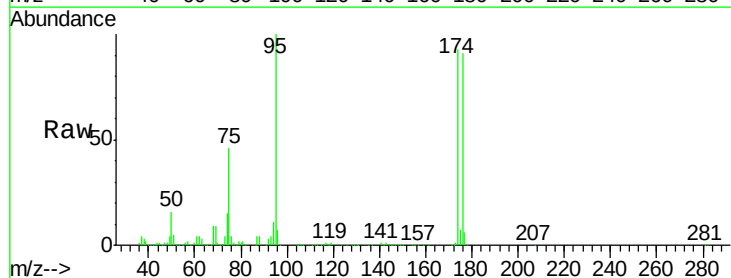
Instrument :
MSVOA_N
ClientSampled :
PB116733TB

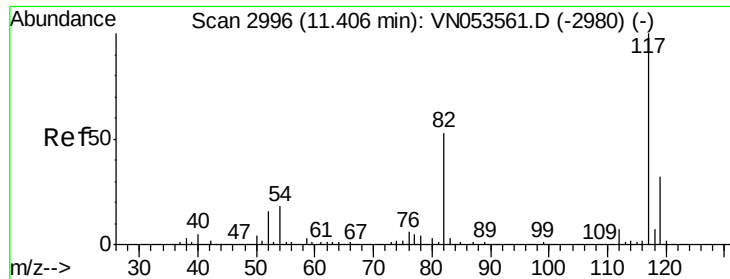
Tot Ion: 43 Resp: 209572
Ion Ratio Lower Upper
43 100
58 21.0 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053578.D
Acq: 1 Feb 2019 16:01

Tgt Ion: 95 Resp: 524404
Ion Ratio Lower Upper
95 100
174 92.5 0.0 183.2
176 90.3 0.0 177.4

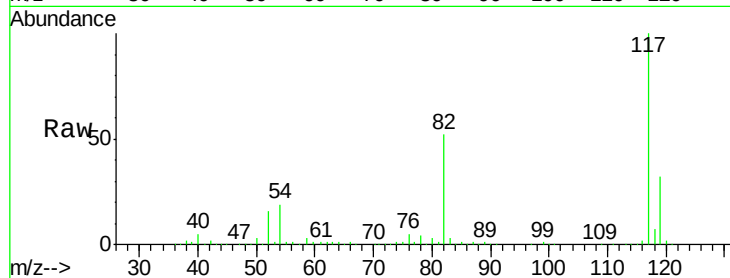




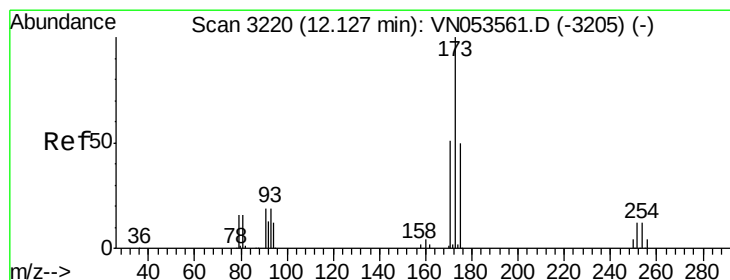
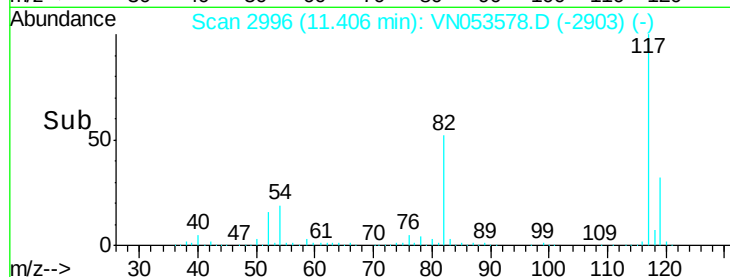
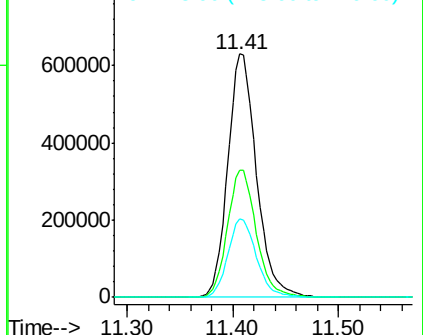
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053578.D
Acq: 1 Feb 2019 16:01

Instrument :
MSVOA_N
ClientSampled :
PB116733TB

Tot Ion:117 Resp: 1182870
Ion Ratio Lower Upper
117 100
82 52.3 42.9 64.3
119 32.1 26.0 39.0

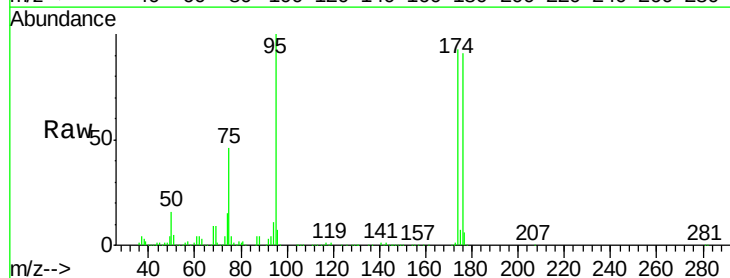


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

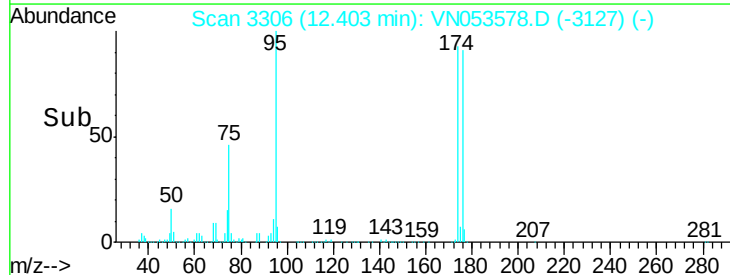
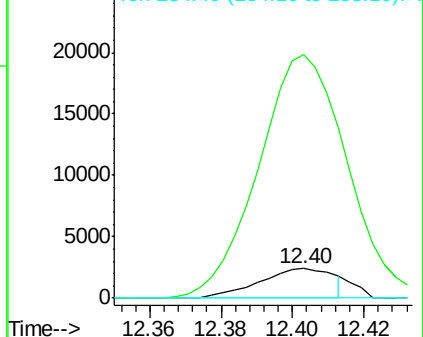


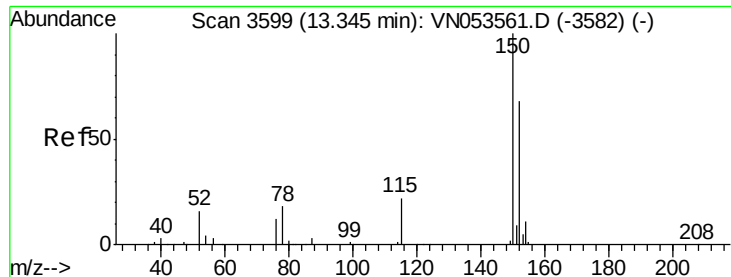
#71
Bromoform
Concen: 0.580 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053578.D
Acq: 1 Feb 2019 16:01

Tgt Ion:173 Resp: 3490
Ion Ratio Lower Upper
173 100
175 821.0 24.6 74.0#
254 0.0 0.2 0.2#



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: VN053578.D

Acq: 1 Feb 2019 16:01

Instrument :

MSVOA_N

ClientSampled :

PB116733TB

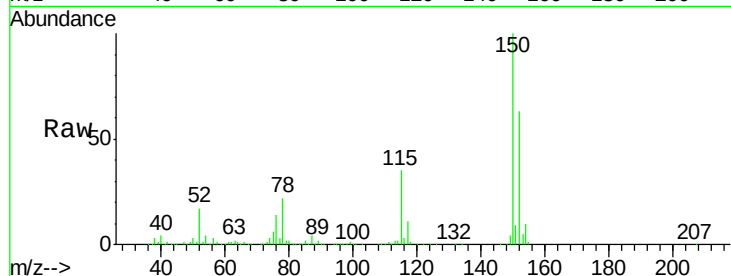
Tot Ion:152 Resp: 498265

Ion Ratio Lower Upper

152 100

115 55.2 27.8 83.4

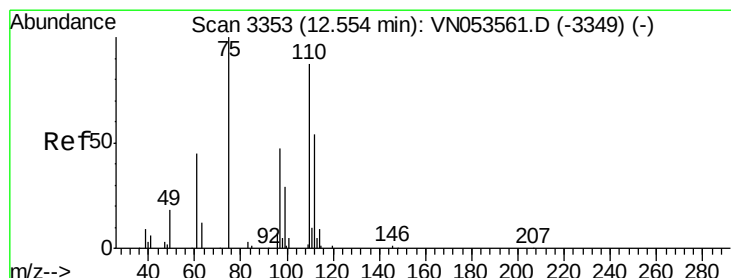
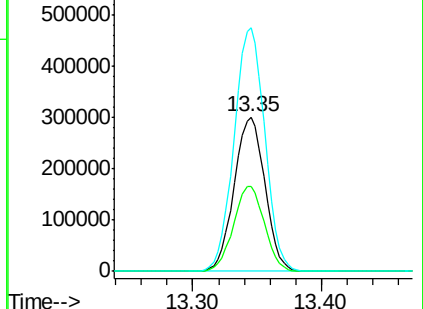
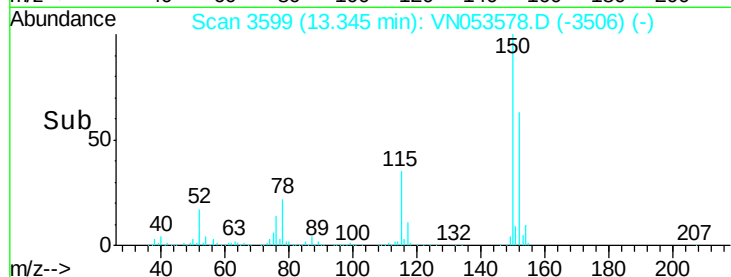
150 157.8 0.0 349.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 38.033 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053578.D

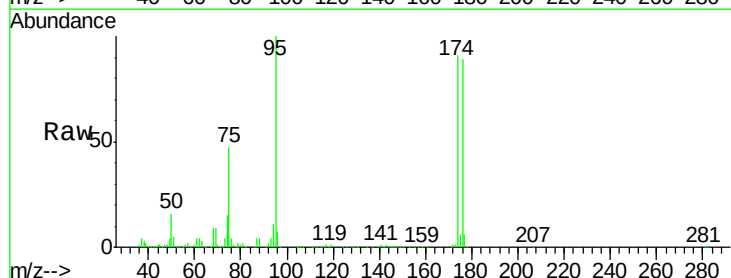
Acq: 1 Feb 2019 16:01

Tgt Ion: 75 Resp: 243406

Ion Ratio Lower Upper

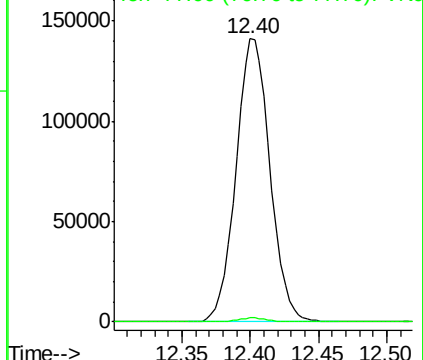
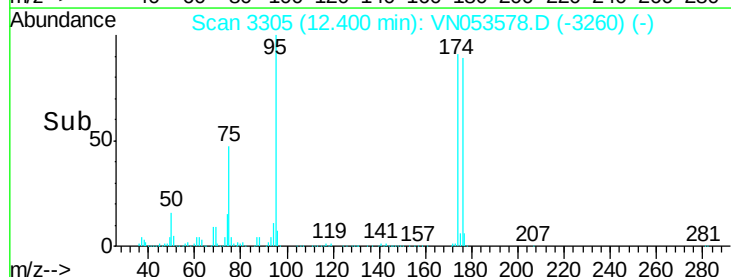
75 100

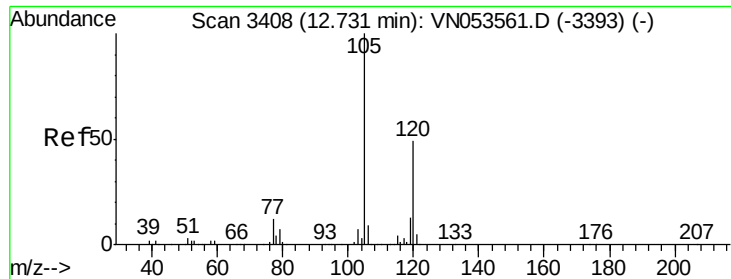
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

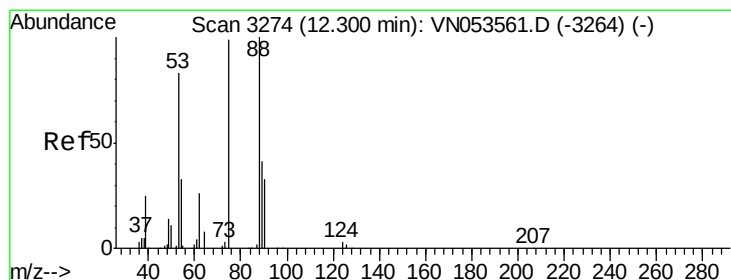
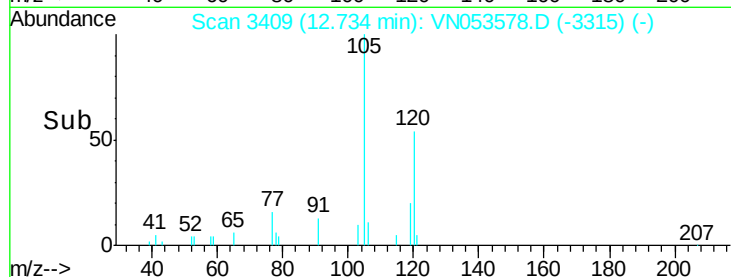
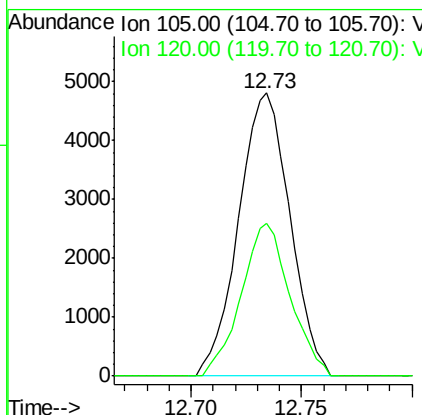
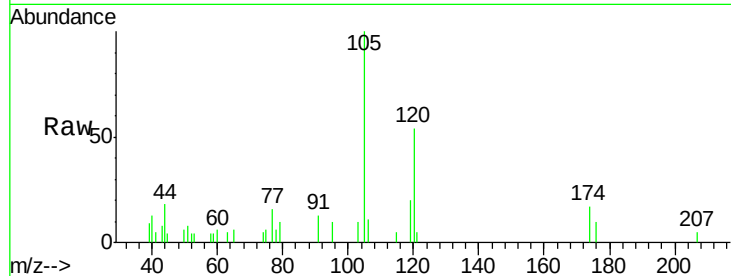




#80
 1,3,5-Trimethylbenzene
 Concen: 0.268 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN053578.D
 Acq: 1 Feb 2019 16:01

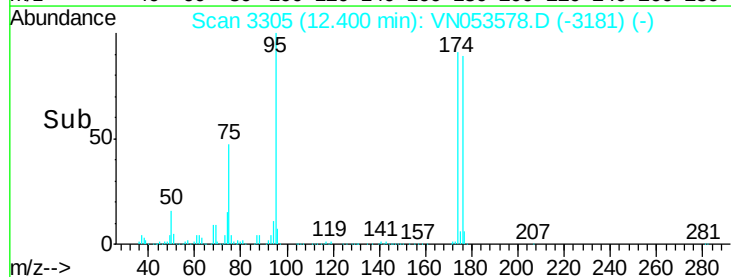
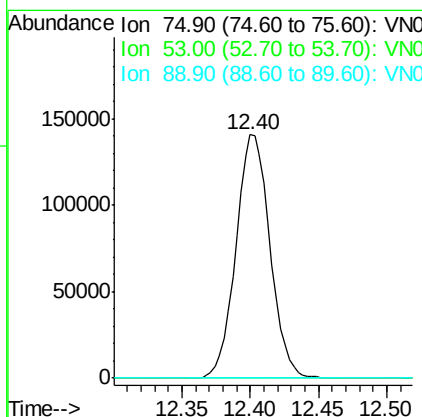
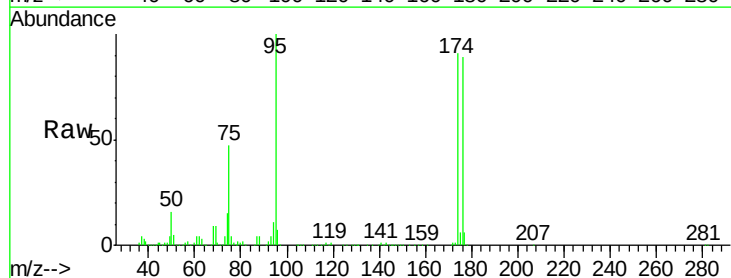
Instrument :
 MSVOA_N
 ClientSampled :
 PB116733TB

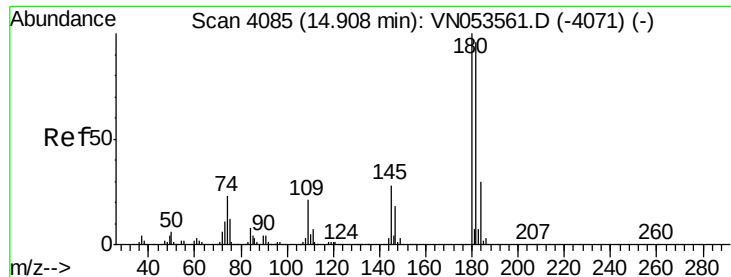
Tot Ion:105 Resp: 7778
 Ion Ratio Lower Upper
 105 100
 120 51.3 24.9 74.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 106.945 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN053578.D
 Acq: 1 Feb 2019 16:01

Tgt Ion: 75 Resp: 243406
 Ion Ratio Lower Upper
 75 100
 53 0.1 69.8 104.6#
 89 0.0 35.6 53.4#





#93

1,2,4-Trichlorobenzene

Concen: 0.259 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.01 min

Lab File: VN053578.D

Acq: 1 Feb 2019 16:01

Instrument :

MSVOA_N

ClientSampled :

PB116733TB

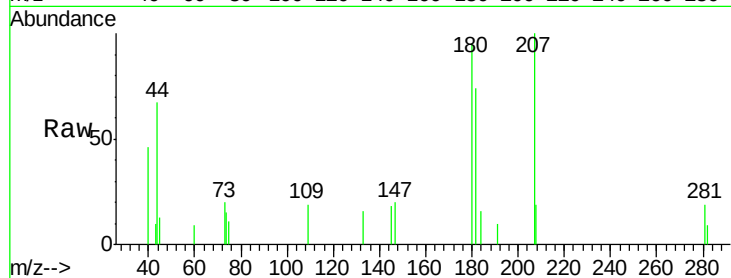
Tot Ion:180 Resp: 2413

Ion Ratio Lower Upper

180 100

182 89.8 48.1 144.3

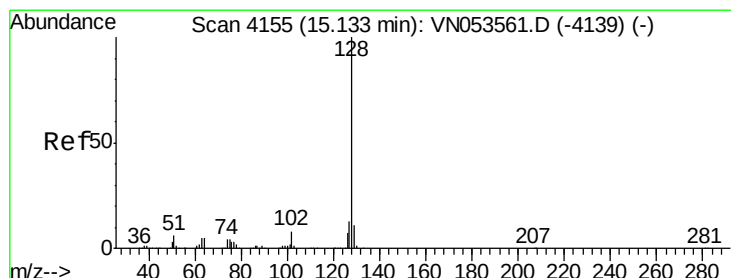
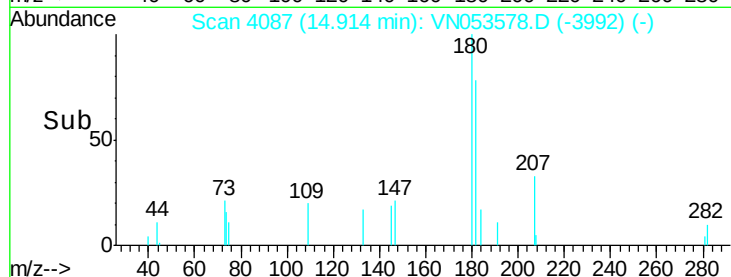
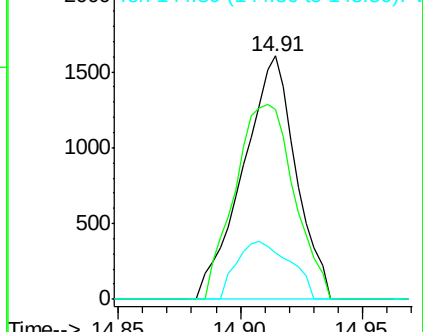
145 24.1 13.9 41.6



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



#95

Naphthalene

Concen: 1.965 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN053578.D

Acq: 1 Feb 2019 16:01

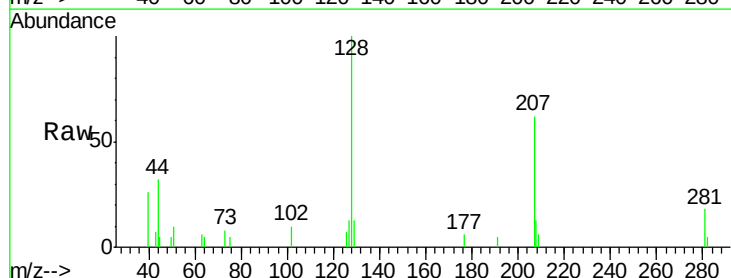
Tgt Ion:128 Resp: 5184

Ion Ratio Lower Upper

128 100

127 12.0 10.3 15.5

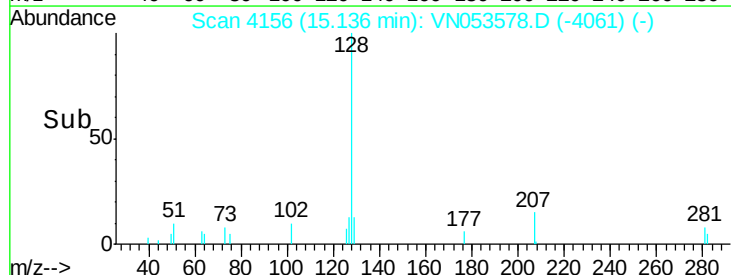
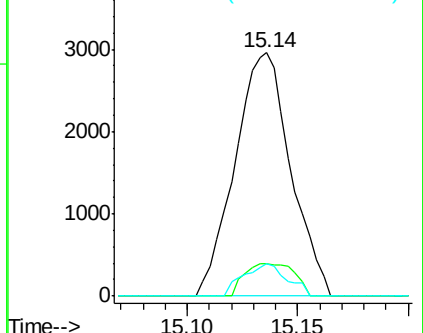
129 10.5 8.6 13.0

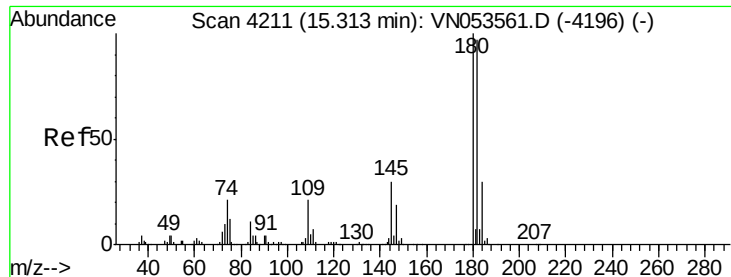


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

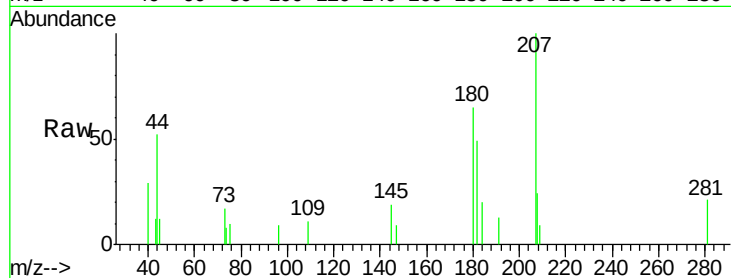




#96
 1,2,3-Trichlorobenzene
 Concen: 0.302 ug/l
 RT: 15.32 min Scan# 4213
 Delta R.T. 0.01 min
 Lab File: VN053578.D
 Acq: 1 Feb 2019 16:01

Instrument :
 MSVOA_N
 ClientSampleId :
 PB116733TB

Tot Ion:180 Resp: 2611
 Ion Ratio Lower Upper
 180 100
 182 79.9 47.9 143.8
 145 28.2 14.7 44.1



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

