

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031819\
 Data File : VN054381.D
 Acq On : 18 Mar 2019 9:26
 Operator : JC/SP
 Sample : VN0318MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 19 05:08:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1728710	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	2496790	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2053073	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	688547	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	853896	46.51	ug/l	0.00
Spiked Amount			Recovery	=	93.02%	
35) Dibromofluoromethane	7.59	113	768713	47.74	ug/l	0.00
Spiked Amount			Recovery	=	95.48%	
50) Toluene-d8	10.09	98	2873744	48.32	ug/l	0.00
Spiked Amount			Recovery	=	96.64%	
62) 4-Bromofluorobenzene	12.40	95	824519	39.62	ug/l	0.00
Spiked Amount			Recovery	=	79.24%	

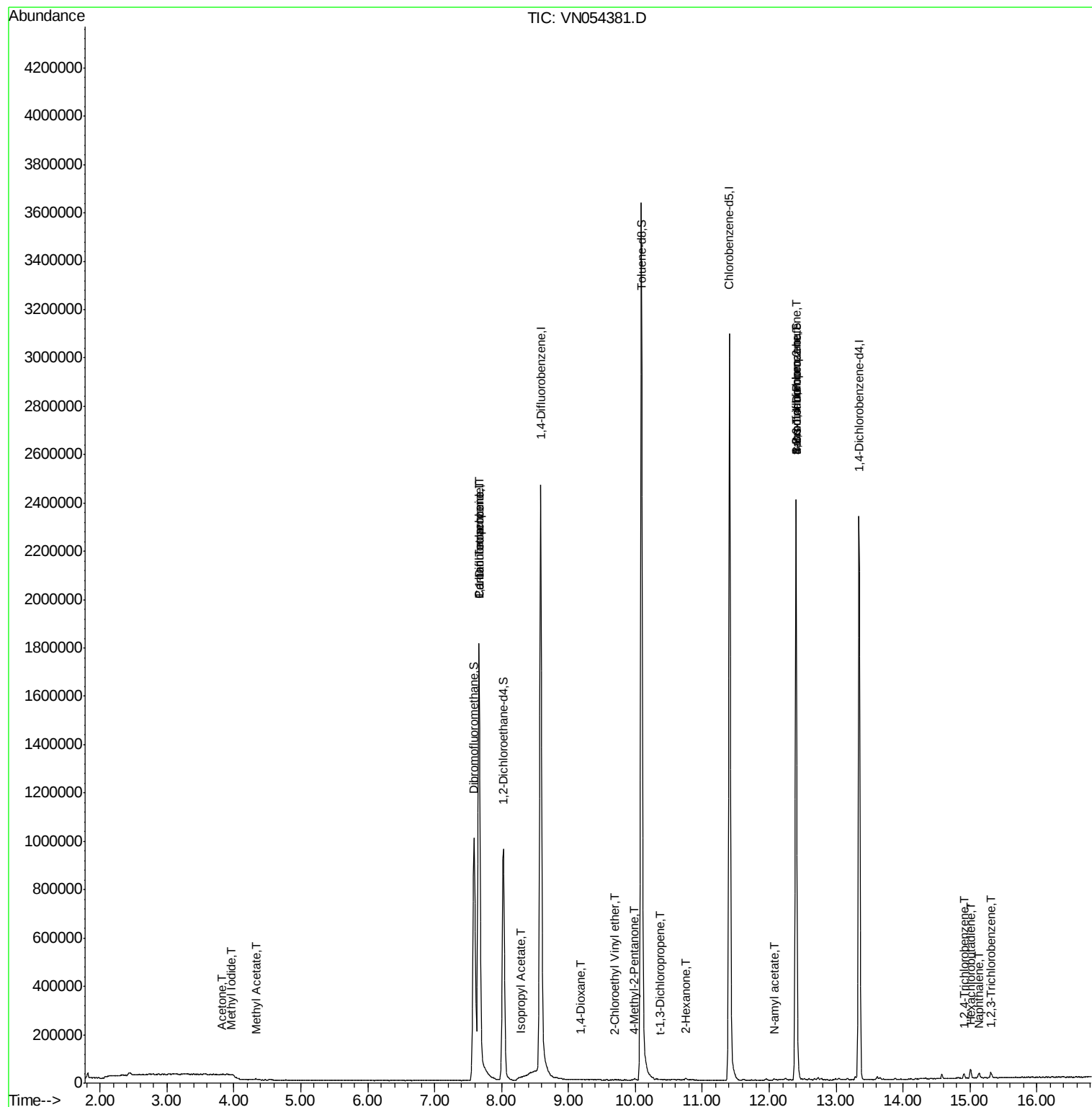
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.95	142	412	1.512	ug/l #	59
16) Acetone	3.83	43	1216	0.231	ug/l #	47
18) Methyl Acetate	4.33	43	7736	0.727	ug/l #	73
31) Cyclohexane	7.66	56	25353	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	101285	4.405	ug/l #	49
38) Carbon Tetrachloride	7.66	117	141811	5.881	ug/l #	16
43) Isopropyl Acetate	8.27	43	12436	0.536	ug/l #	60
49) 1,4-Dioxane	9.19	88	35	0.210	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	3411	0.278	ug/l	91
53) t-1,3-Dichloropropene	10.36	75	205	1.994	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.71	63	123	16.843	ug/l #	44
59) 2-Hexanone	10.76	43	5278	0.646	ug/l	99
71) Bromoform	12.40	173	5264	2.752	ug/l #	1
74) N-amyl acetate	12.07	43	3288	0.269	ug/l #	86
76) 1,2,3-Trichloropropane	12.40	75	393057	38.819	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	393057	132.700	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	6588	2.948	ug/l	97
94) Hexachlorobutadiene	15.01	225	7901	0.864	ug/l	96
95) Naphthalene	15.13	128	20097	4.089	ug/l	97
96) 1,2,3-Trichlorobenzene	15.32	180	8794	0.689	ug/l	97

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

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ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Mar 19 05:08:01 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 13 03:33:31 2019
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: VN054381.D

Acq: 18 Mar 2019 9:26

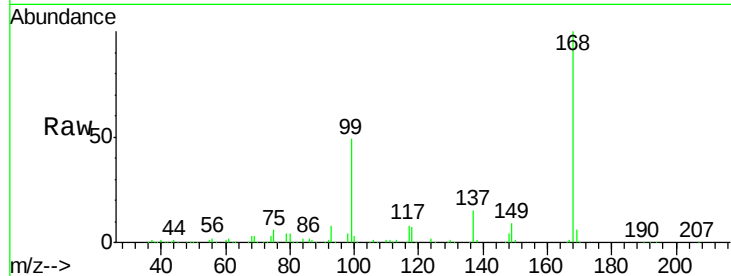
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 1728710

Ion Ratio Lower Upper

168 100

99 48.8 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

800000

600000

400000

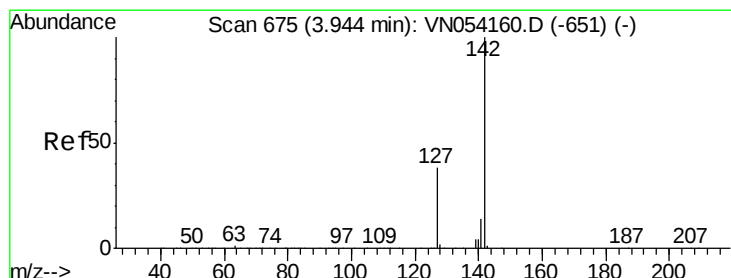
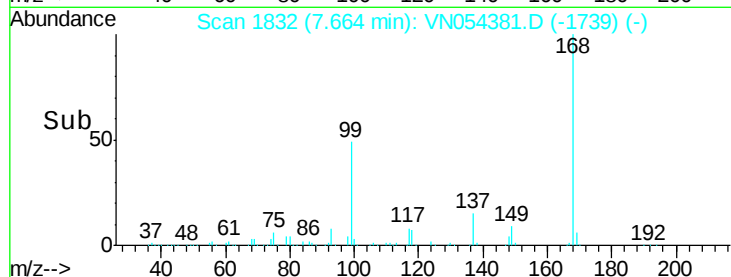
200000

0

7.66

7.60 7.70 7.80

Time-->



#10

Methyl Iodide

Concen: 1.512 ug/l

RT: 3.95 min Scan# 678

Delta R.T. 0.01 min

Lab File: VN054381.D

Acq: 18 Mar 2019 9:26

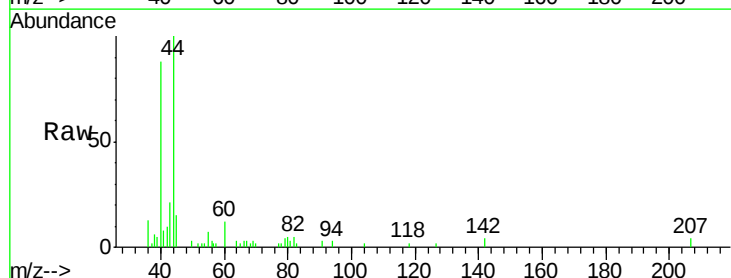
Tgt Ion:142 Resp: 412

Ion Ratio Lower Upper

142 100

127 63.8 30.3 45.5#

141 0.0 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

500

400

300

200

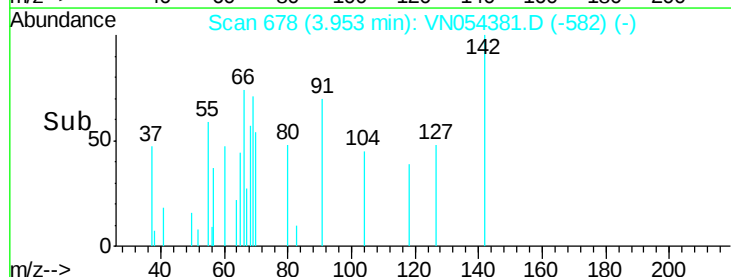
100

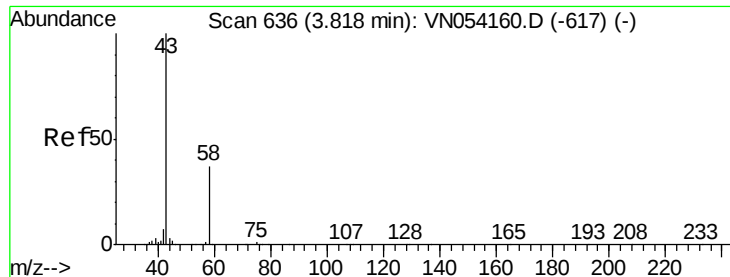
0

3.95

3.93 3.94 3.96 3.97

Time-->





#16

Acetone

Concen: 0.231 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN054381.D

Acq: 18 Mar 2019 9:26

Instrument :

MSVOA_N

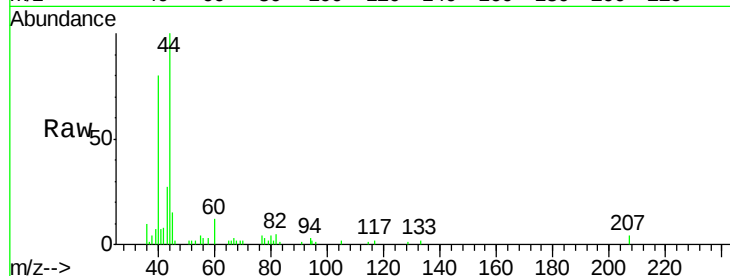
ClientSampled :

Tot Ion: 43 Resp: 1216

Ion Ratio Lower Upper

43 100

58 5.4 29.9 44.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.83

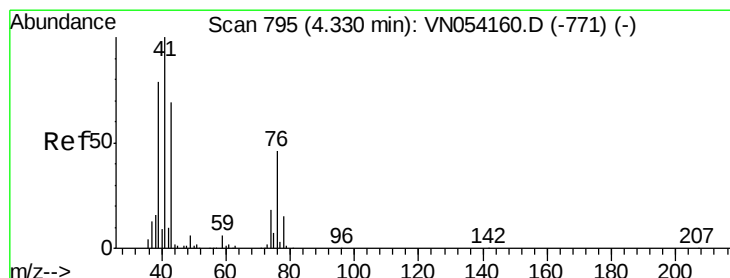
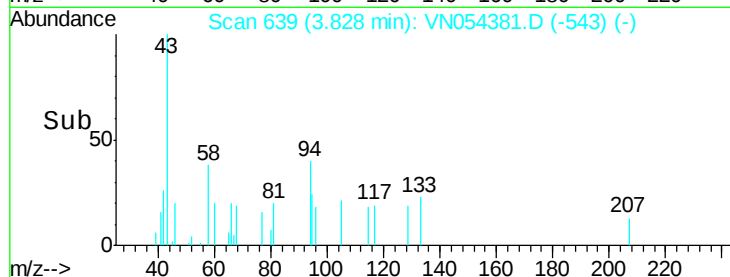
3000

2000

1000

0

Time--> 3.80 3.82 3.84 3.86



#18

Methyl Acetate

Concen: 0.727 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN054381.D

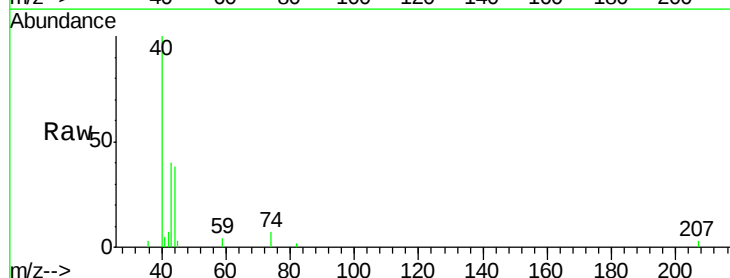
Acq: 18 Mar 2019 9:26

Tgt Ion: 43 Resp: 7736

Ion Ratio Lower Upper

43 100

74 12.3 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.33

4000

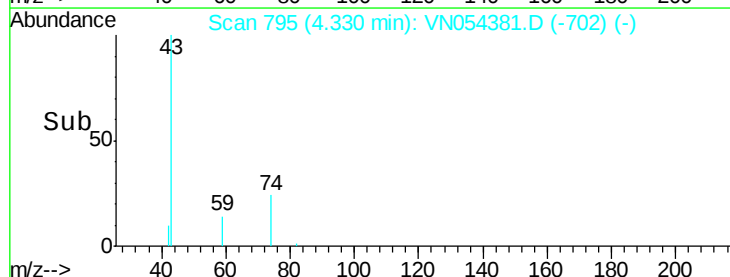
3000

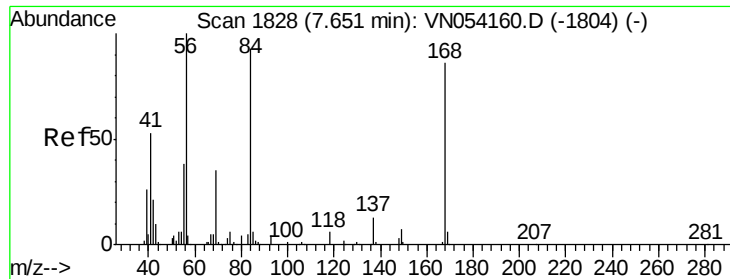
2000

1000

0

Time--> 4.30 4.40

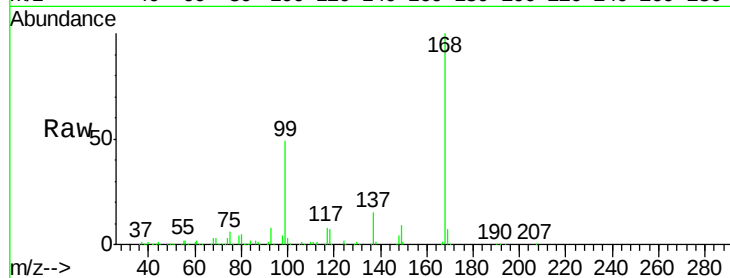




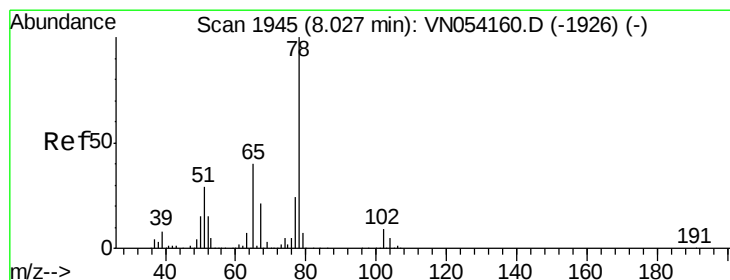
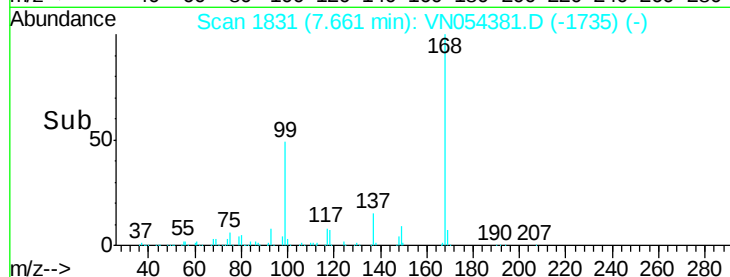
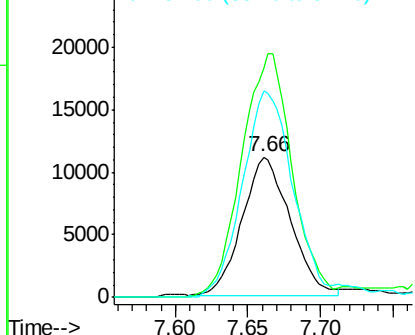
#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN054381.D
Acq: 18 Mar 2019 9:26

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 25353
Ion Ratio Lower Upper
56 100
69 166.1 27.8 41.6#
84 149.7 74.6 111.8#

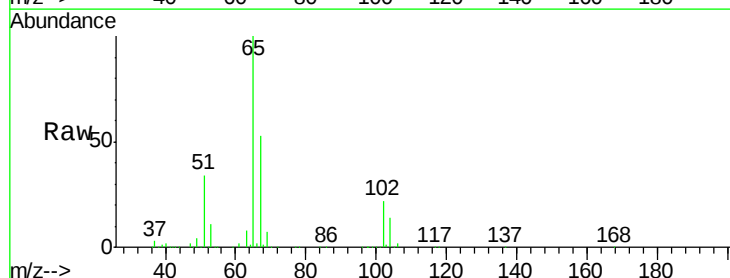


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

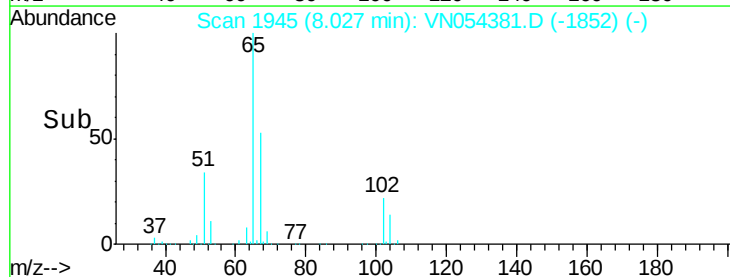
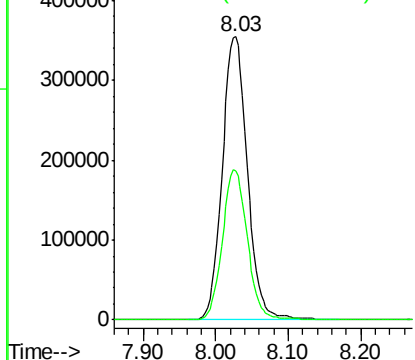


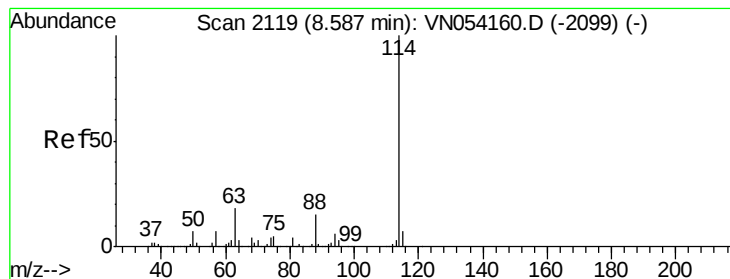
#33
1,2-Dichloroethane-d4
Concen: 46.511 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN054381.D
Acq: 18 Mar 2019 9:26

Tgt Ion: 65 Resp: 853896
Ion Ratio Lower Upper
65 100
67 52.6 0.0 104.6



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# 2119

Delta R.T. -0.00 min

Lab File: VN054381.D

Acq: 18 Mar 2019 9:26

Instrument :

MSVOA_N

ClientSampled :

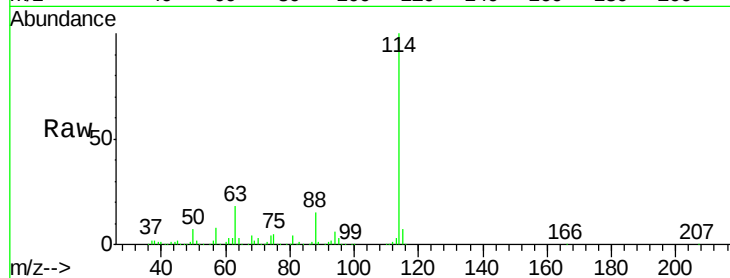
Tot Ion:114 Resp: 2496790

Ion Ratio Lower Upper

114 100

63 18.3 0.0 35.2

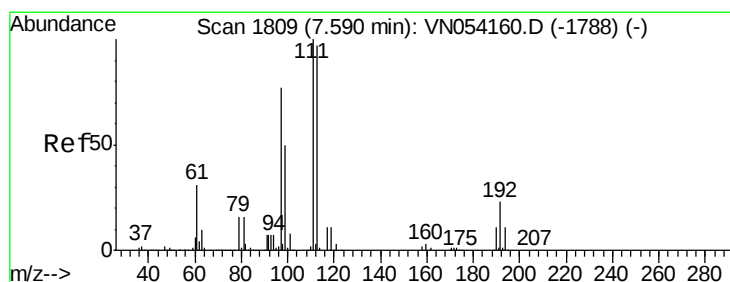
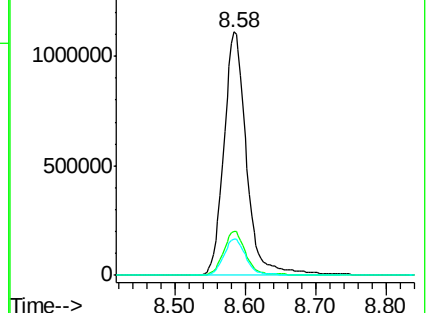
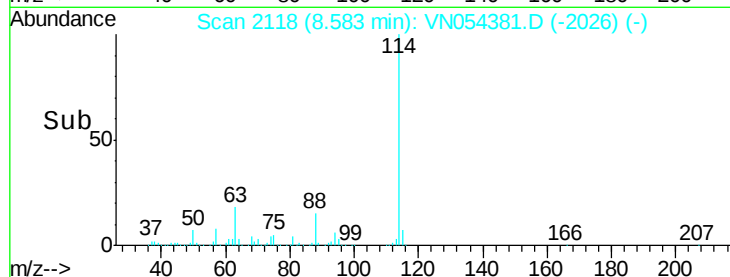
88 15.0 0.0 30.2



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: 47.736 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN054381.D

Acq: 18 Mar 2019 9:26

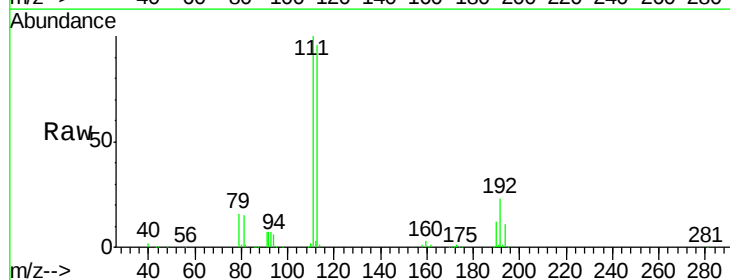
Tgt Ion:113 Resp: 768713

Ion Ratio Lower Upper

113 100

111 102.9 82.2 123.4

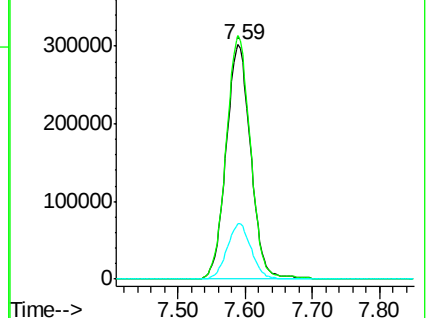
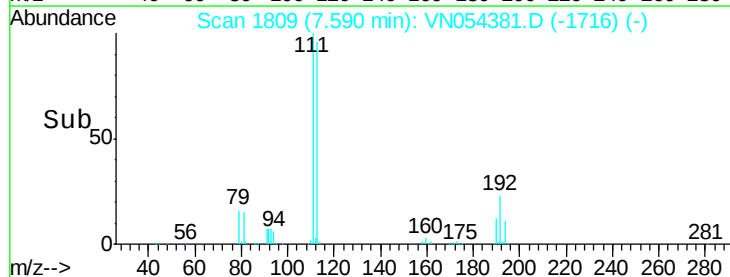
192 23.3 19.2 28.8

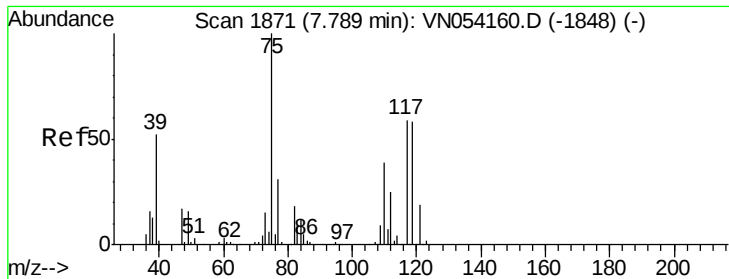


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.405 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN054381.D

Acq: 18 Mar 2019 9:26

Instrument :
MSVOA_N
ClientSampled :

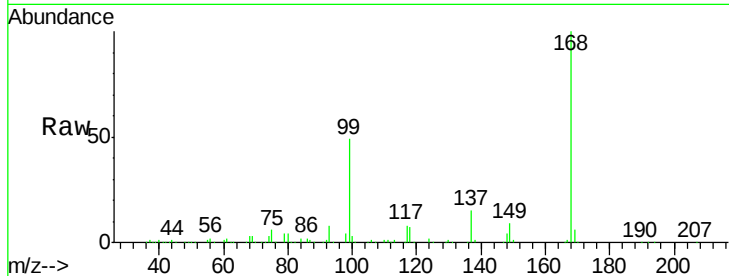
Tot Ion: 75 Resp: 101285

Ion Ratio Lower Upper

75 100

110 10.0 19.1 57.5#

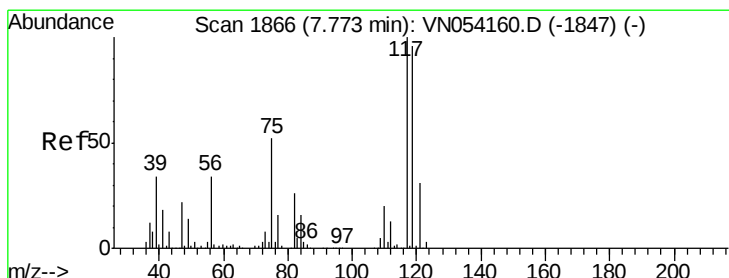
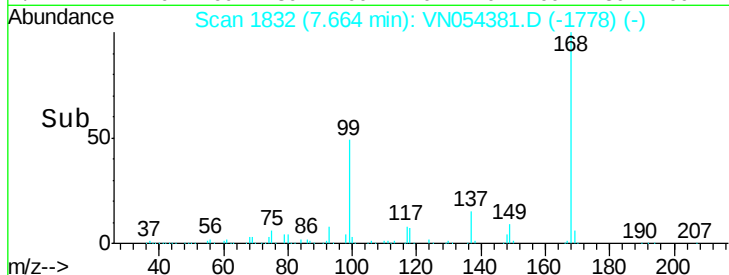
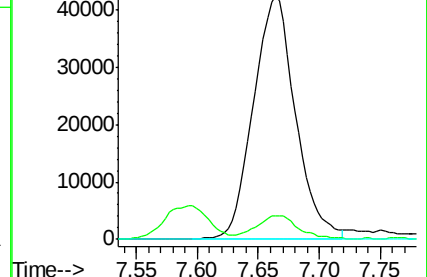
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN054160.D (-1848) (-)

Ion 109.90 (109.60 to 110.60): VN054160.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN054160.D (-1848) (-)



#38

Carbon Tetrachloride

Concen: 5.881 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054381.D

Acq: 18 Mar 2019 9:26

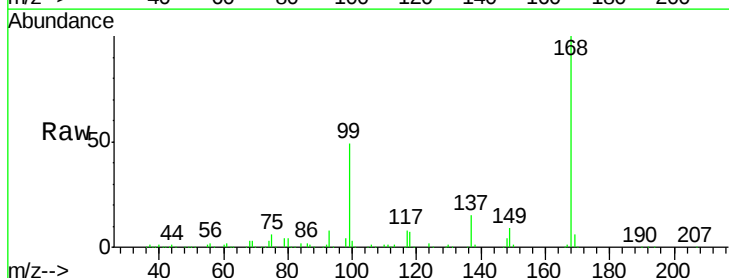
Tgt Ion: 117 Resp: 141811

Ion Ratio Lower Upper

117 100

119 5.1 76.3 114.5#

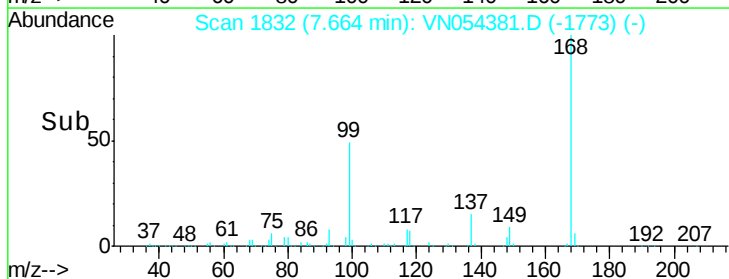
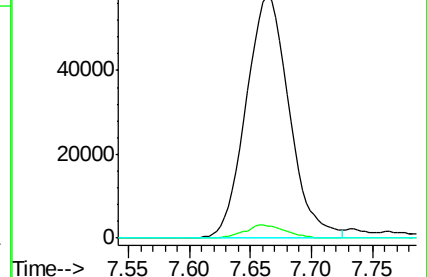
121 0.0 24.6 36.8#

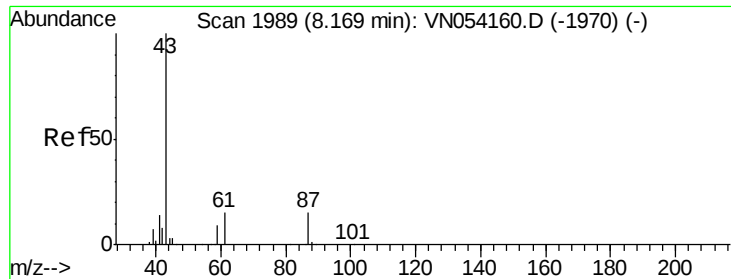


Abundance Ion 116.80 (116.50 to 117.50): VN054160.D (-1847) (-)

Ion 118.80 (118.50 to 119.50): VN054160.D (-1847) (-)

Ion 120.80 (120.50 to 121.50): VN054160.D (-1847) (-)

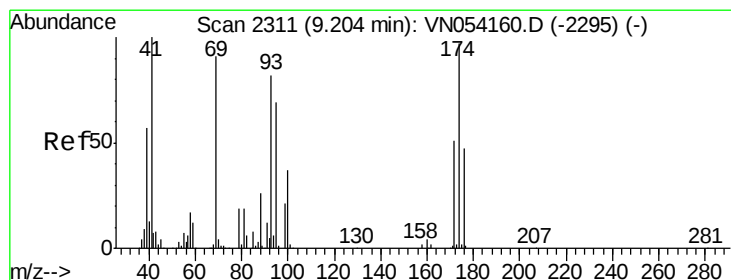
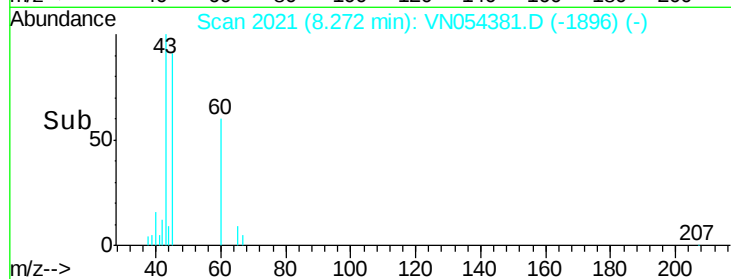
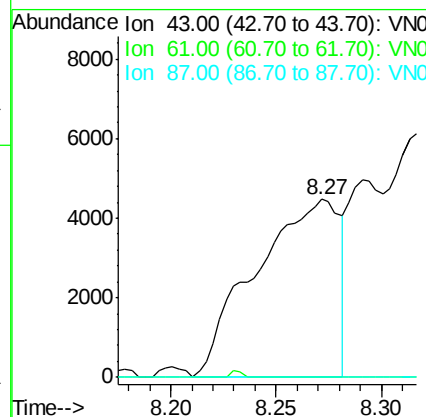
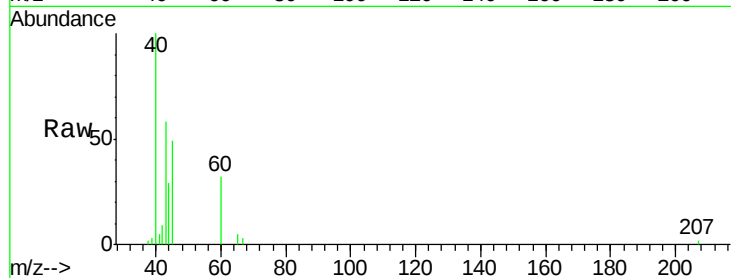




#43
Isopropyl Acetate
Concen: 0.536 ug/l
RT: 8.27 min Scan# 2021
Delta R.T. 0.10 min
Lab File: VN054381.D
Acq: 18 Mar 2019 9:26

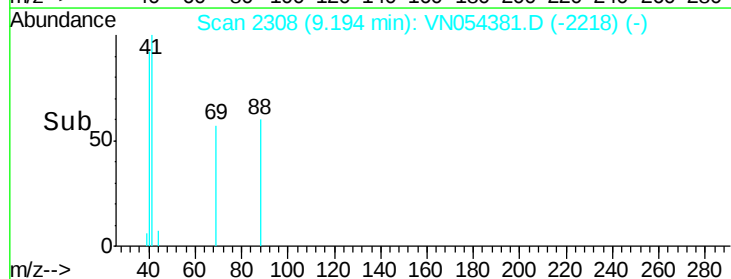
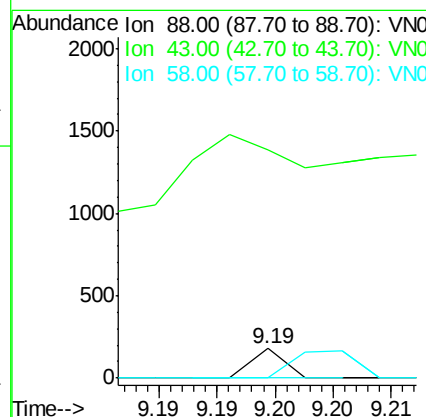
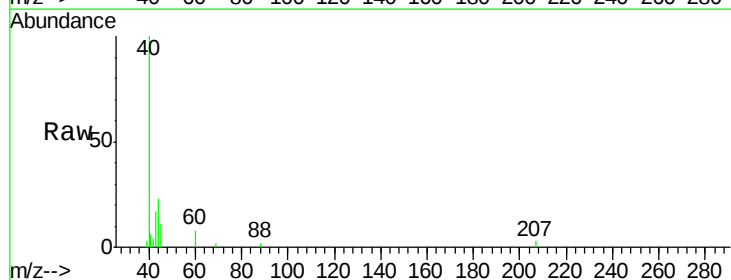
Instrument :
MSVOA_N
ClientSampled :

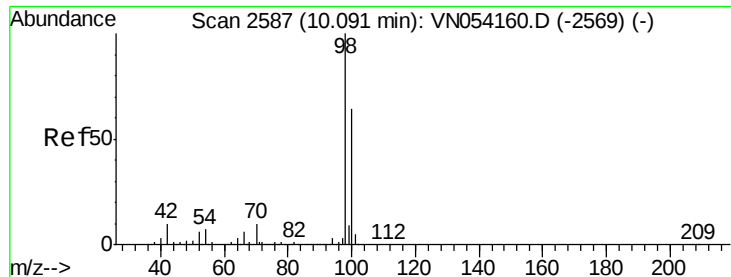
Tot Ion: 43 Resp: 12436
Ion Ratio Lower Upper
43 100
61 0.0 15.8 23.8#
87 0.0 12.0 18.0#



#49
1,4-Dioxane
Concen: 0.210 ug/l
RT: 9.19 min Scan# 2308
Delta R.T. -0.01 min
Lab File: VN054381.D
Acq: 18 Mar 2019 9:26

Tgt Ion: 88 Resp: 35
Ion Ratio Lower Upper
88 100
43 811.4 24.1 36.1#
58 177.1 50.8 76.2#





#50

Toluene-d8

Concen: 48.321 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN054381.D

Acq: 18 Mar 2019 9:26

Instrument :

MSVOA_N

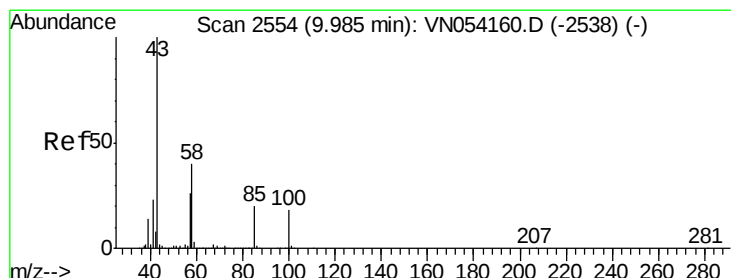
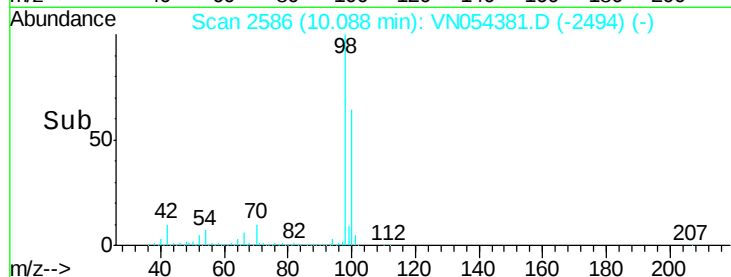
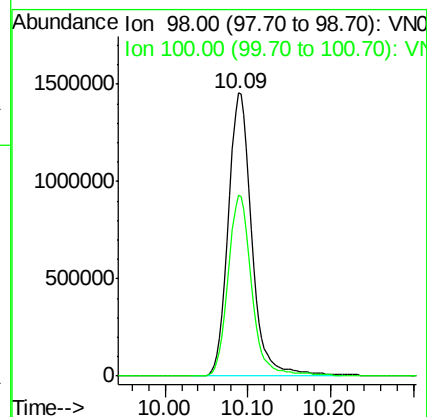
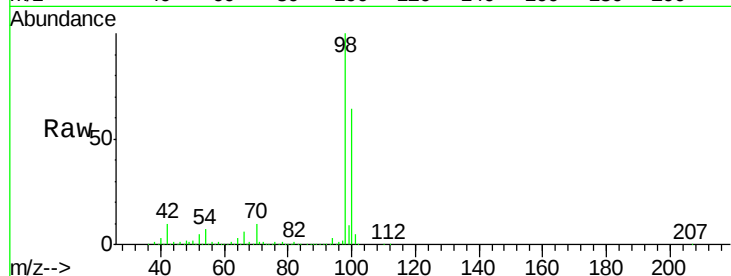
ClientSampleId :

Tot Ion: 98 Resp: 2873744

Ion Ratio Lower Upper

98 100

100 64.5 51.2 76.8



#51

4-Methyl-2-Pentanone

Concen: 0.278 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN054381.D

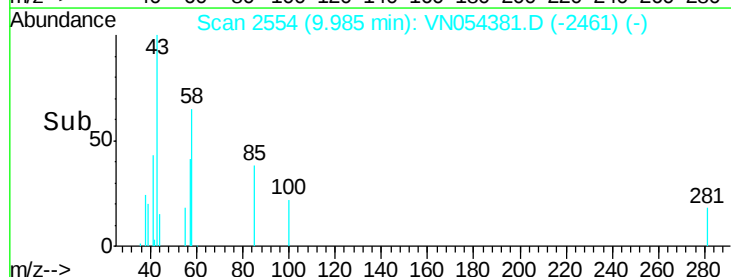
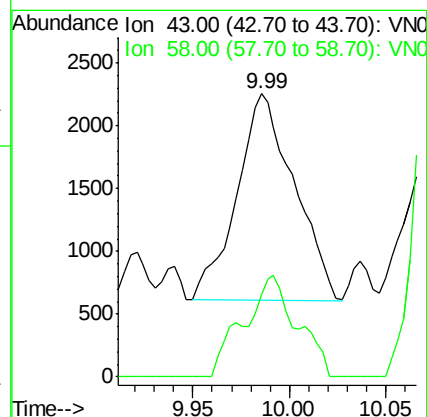
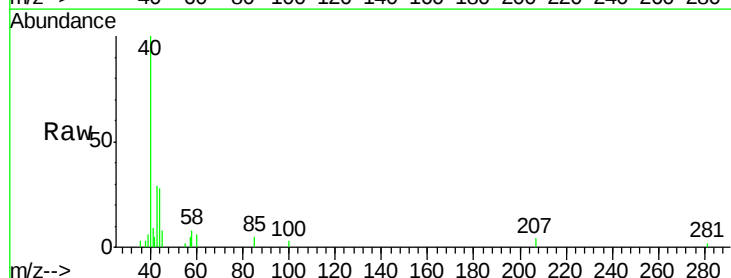
Acq: 18 Mar 2019 9:26

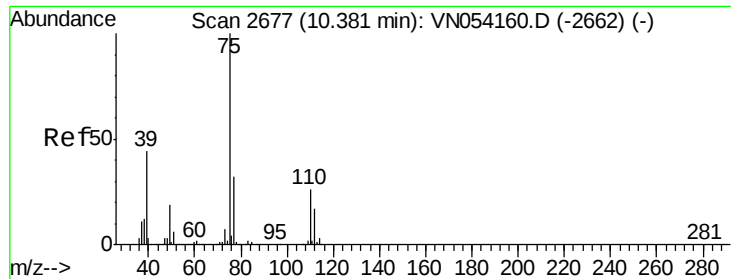
Tgt Ion: 43 Resp: 3411

Ion Ratio Lower Upper

43 100

58 45.5 31.8 47.6





#53

t-1,3-Dichloropropene

Concen: 1.994 ug/l

RT: 10.36 min Scan# 2672

Delta R.T. -0.02 min

Lab File: VN054381.D

Acq: 18 Mar 2019 9:26

Instrument :

MSVOA_N

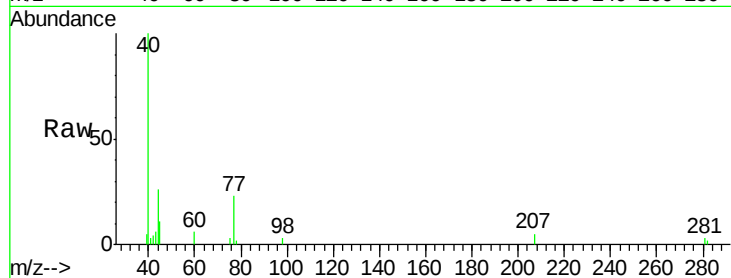
ClientSampleId :

Tot Ion: 75 Resp: 205

Ion Ratio Lower Upper

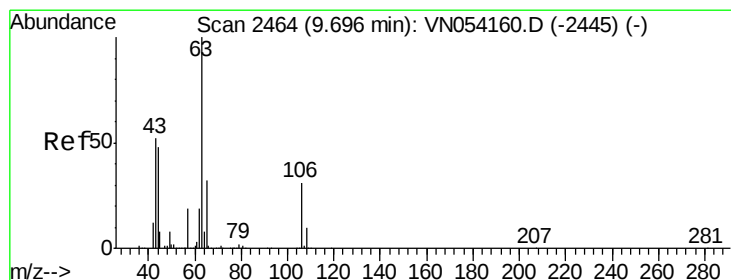
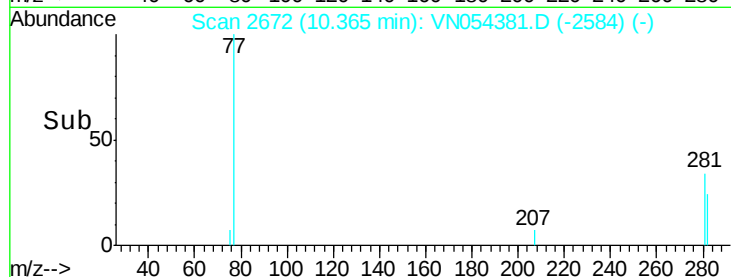
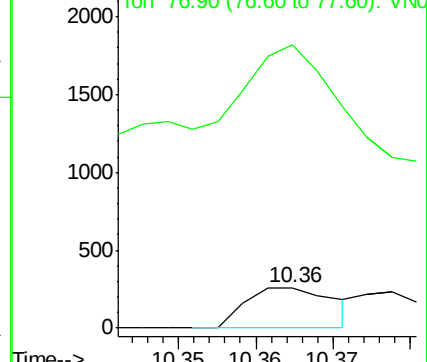
75 100

77 208.5 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 16.843 ug/l

RT: 9.71 min Scan# 2467

Delta R.T. 0.01 min

Lab File: VN054381.D

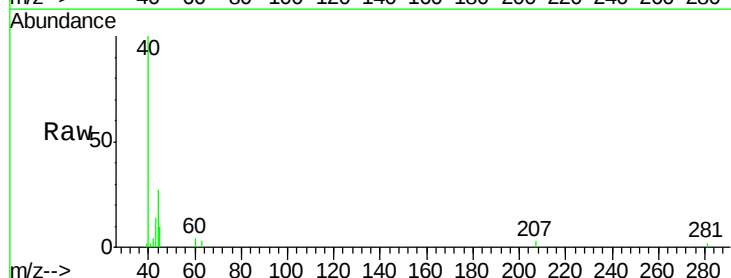
Acq: 18 Mar 2019 9:26

Tgt Ion: 63 Resp: 123

Ion Ratio Lower Upper

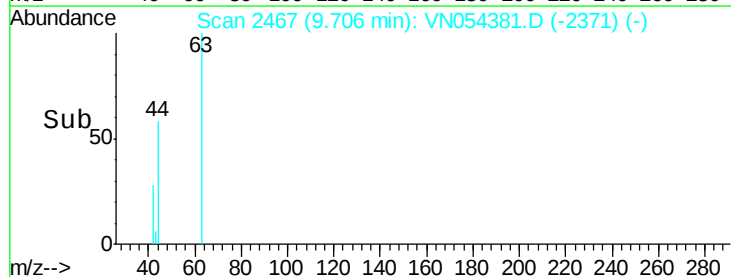
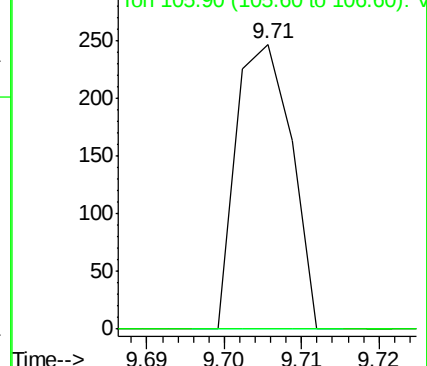
63 100

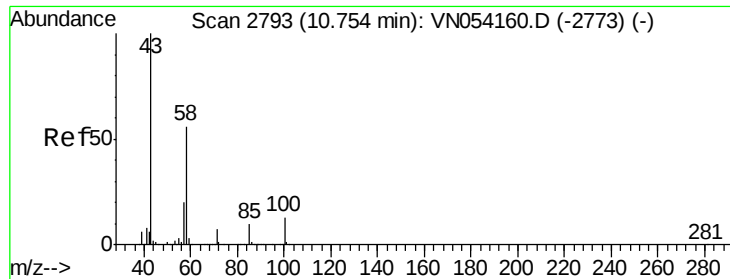
106 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

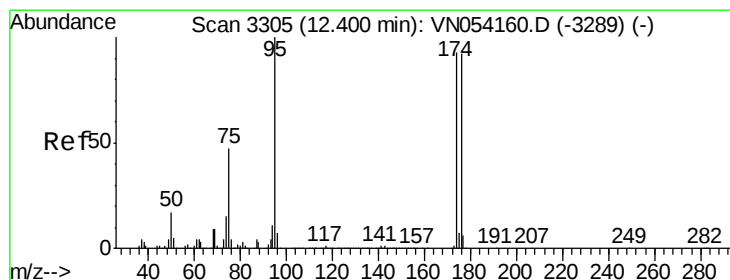
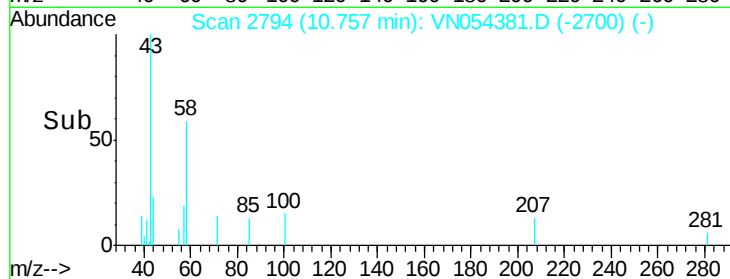
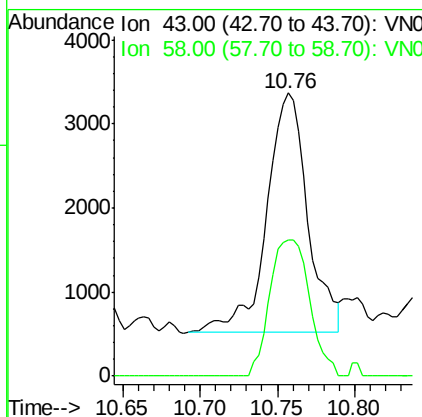
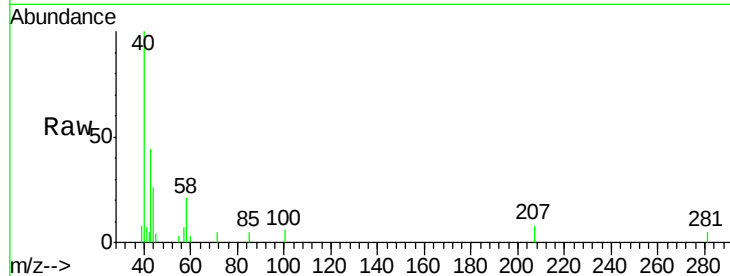




#59
2-Hexanone
Concen: 0.646 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.00 min
Lab File: VN054381.D
Acq: 18 Mar 2019 9:26

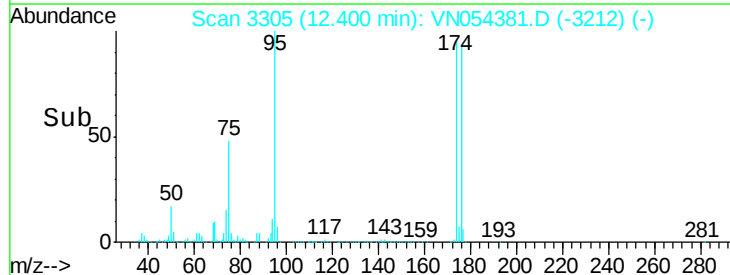
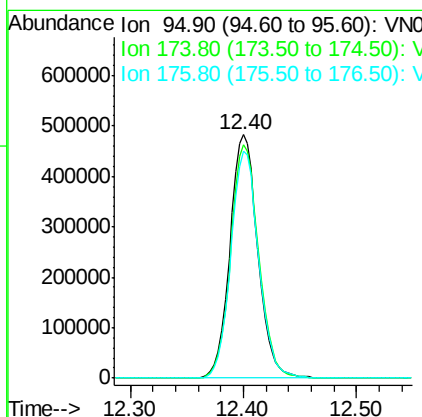
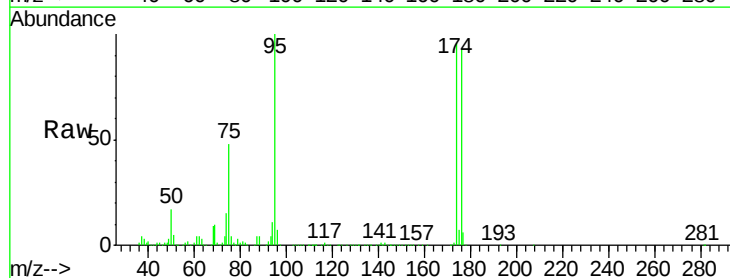
Instrument :
MSVOA_N
ClientSampleId :

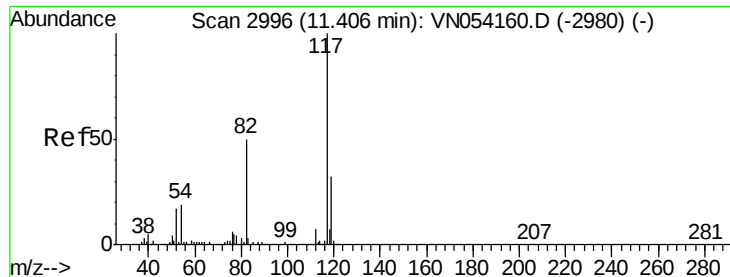
Tot Ion: 43 Resp: 5278
Ion Ratio Lower Upper
43 100
58 55.1 28.0 83.9



#62
4-Bromofluorobenzene
Concen: 39.623 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054381.D
Acq: 18 Mar 2019 9:26

Tgt Ion: 95 Resp: 824519
Ion Ratio Lower Upper
95 100
174 96.8 0.0 191.0
176 93.4 0.0 187.4

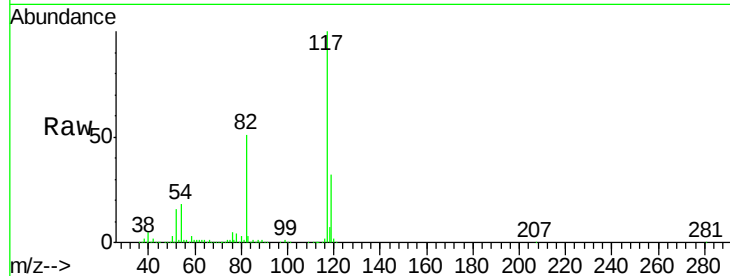




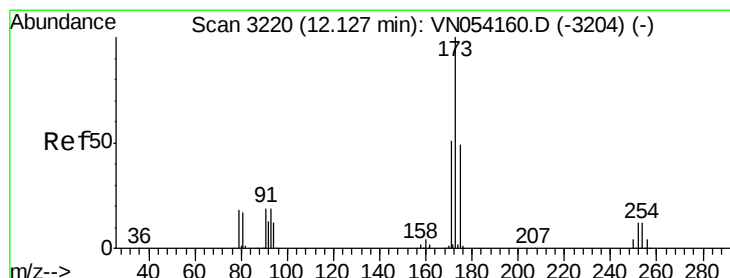
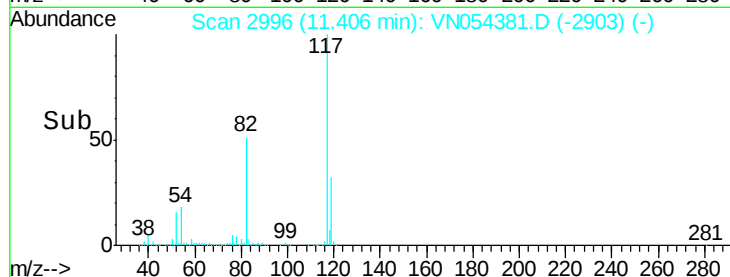
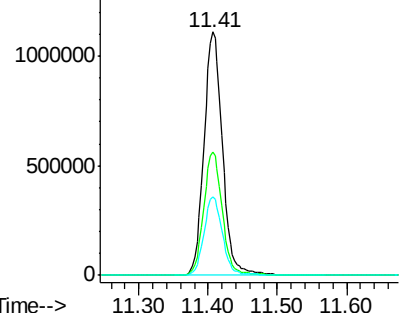
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054381.D
Acq: 18 Mar 2019 9:26

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 2053073
Ion Ratio Lower Upper
117 100
82 50.8 40.0 60.0
119 32.2 25.8 38.6

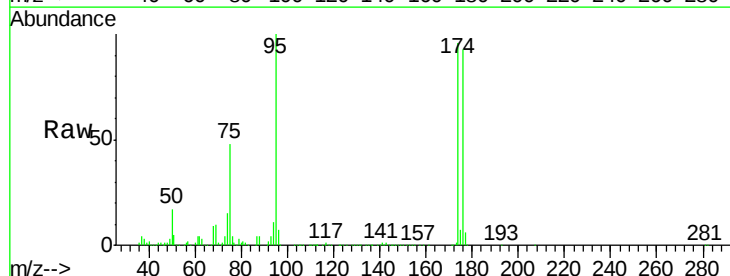


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

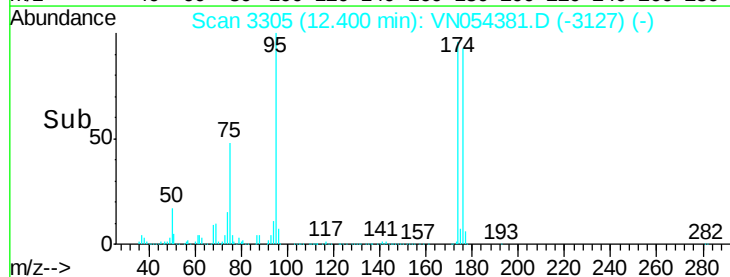
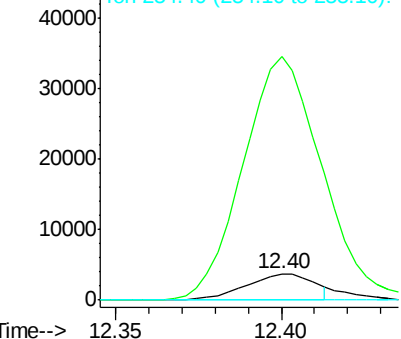


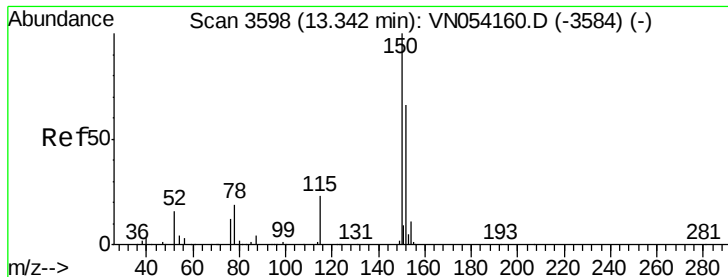
#71
Bromoform
Concen: 2.752 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN054381.D
Acq: 18 Mar 2019 9:26

Tgt Ion:173 Resp: 5264
Ion Ratio Lower Upper
173 100
175 958.8 24.4 73.2#
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: VN054381.D

Acq: 18 Mar 2019 9:26

Instrument :

MSVOA_N

ClientSampled :

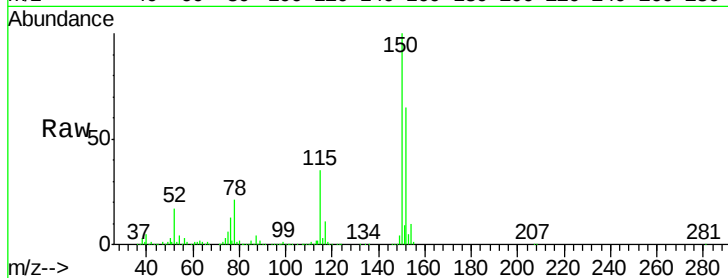
Tot Ion:152 Resp: 688547

Ion Ratio Lower Upper

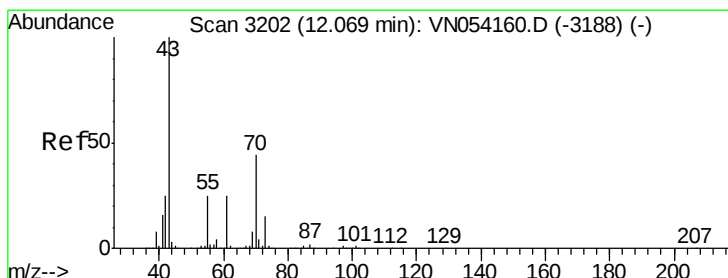
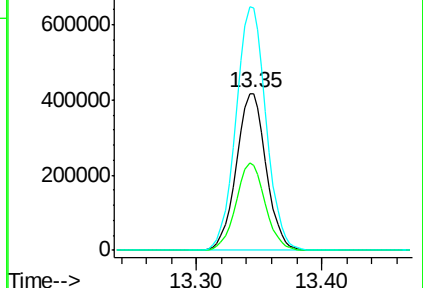
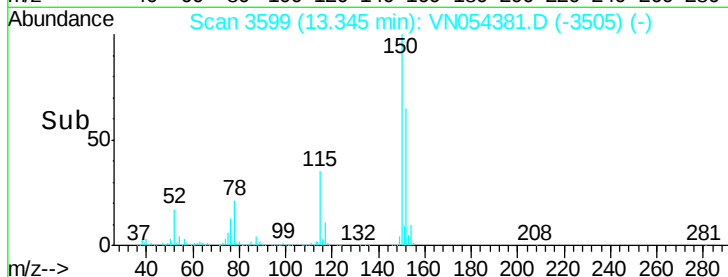
152 100

115 54.7 27.2 81.6

150 156.4 0.0 349.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.269 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN054381.D

Acq: 18 Mar 2019 9:26

Tgt Ion: 43 Resp: 3288

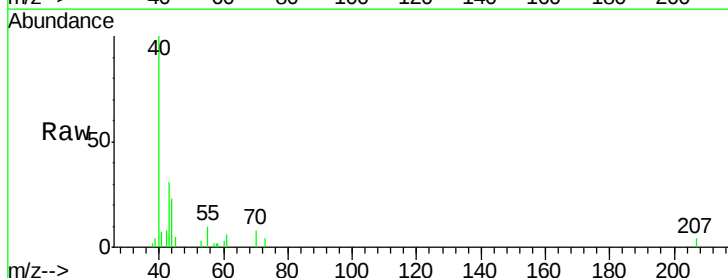
Ion Ratio Lower Upper

43 100

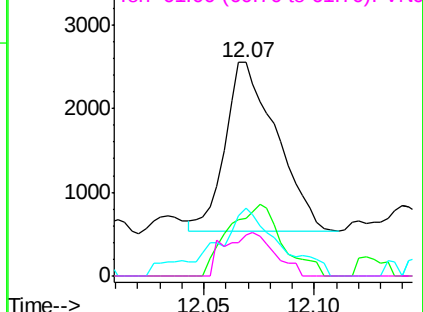
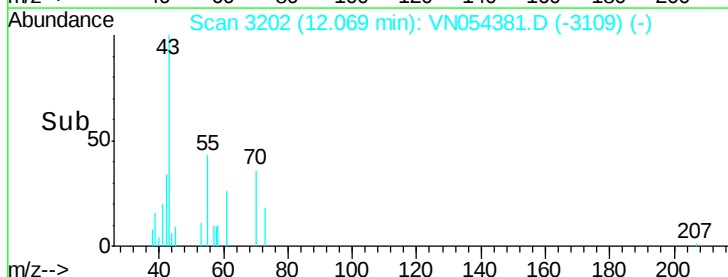
70 44.2 35.4 53.0

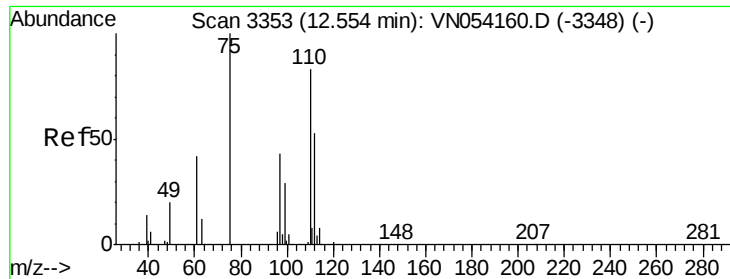
55 50.7 19.8 29.6#

61 24.8 19.8 29.6



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 70.00 (69.70 to 70.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 38.819 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054381.D

Acq: 18 Mar 2019 9:26

Instrument :

MSVOA_N

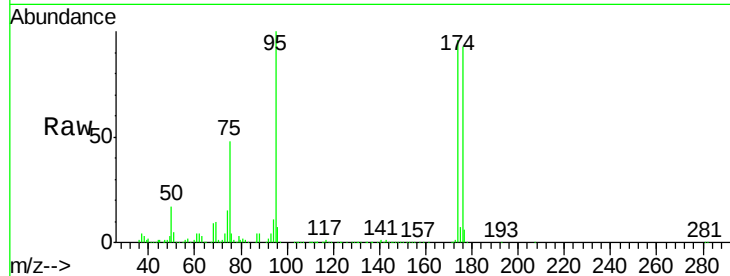
ClientSampled :

Tot Ion: 75 Resp: 393057

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.40

250000

200000

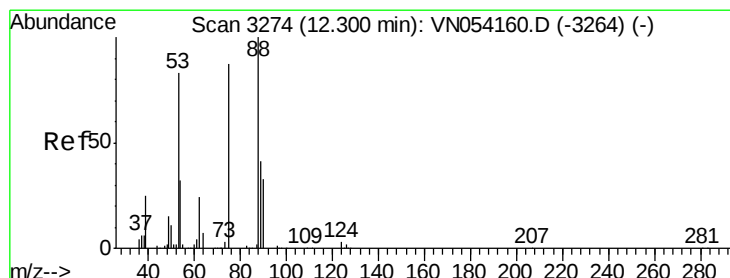
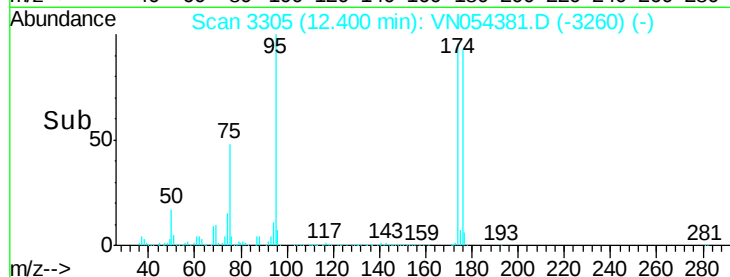
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 132.700 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054381.D

Acq: 18 Mar 2019 9:26

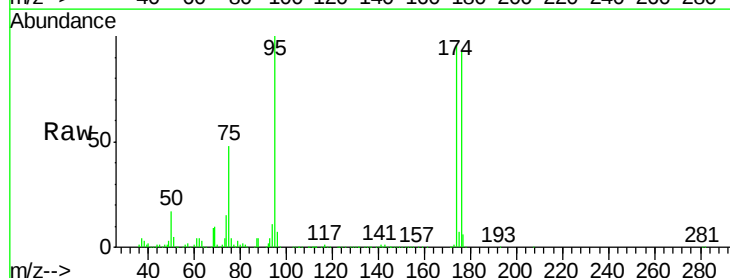
Tgt Ion: 75 Resp: 393057

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#



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

300000

250000

200000

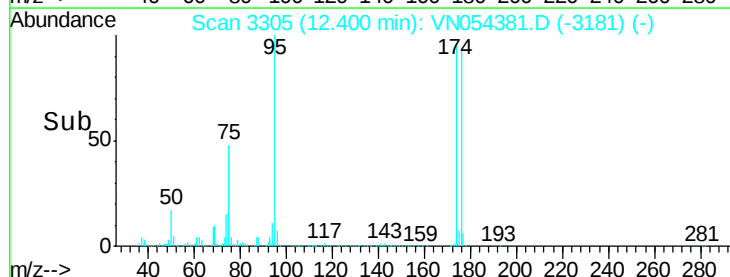
150000

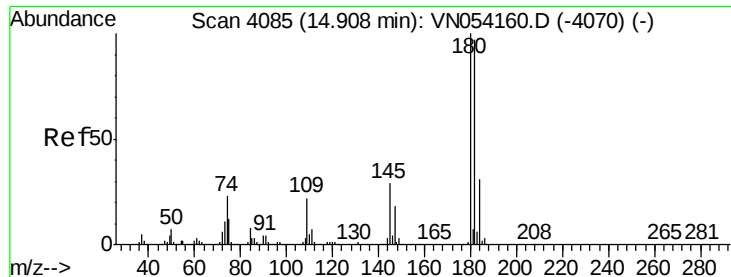
100000

50000

0

Time--> 12.30 12.40 12.50

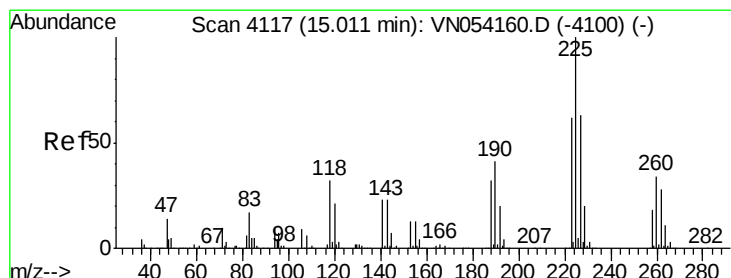
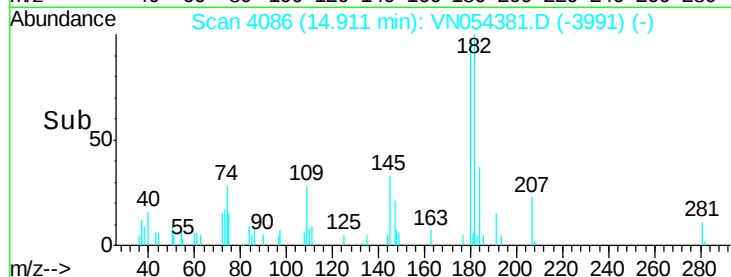
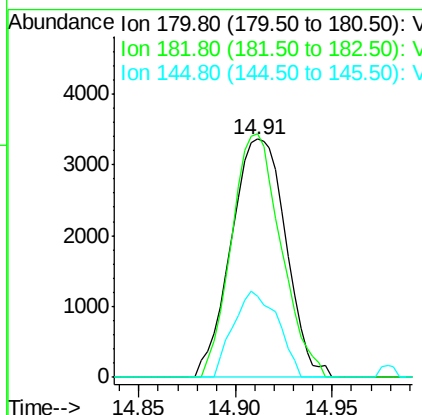
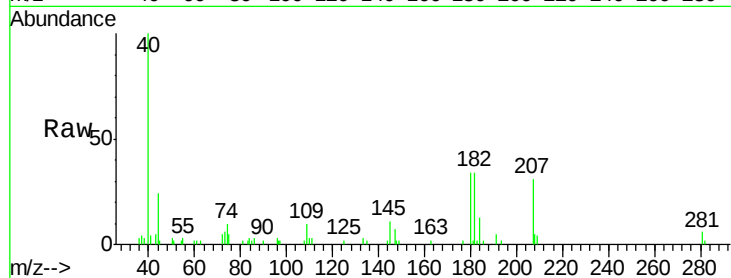




#93
 1,2,4-Trichlorobenzene
 Concen: 2.948 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN054381.D
 Acq: 18 Mar 2019 9:26

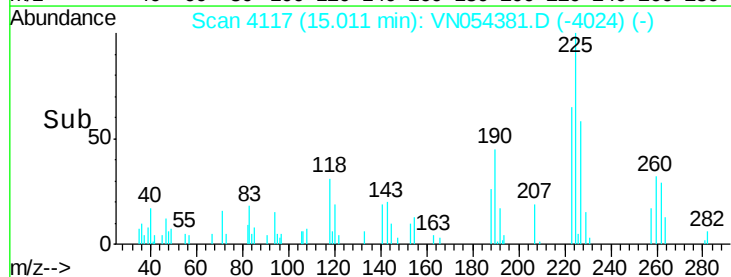
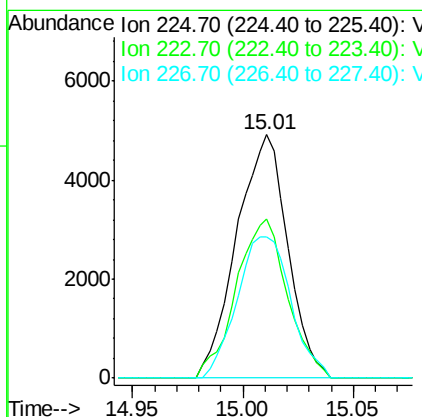
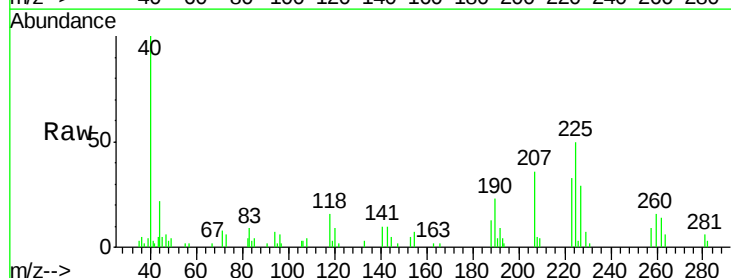
Instrument :
 MSVOA_N
 ClientSampleId :

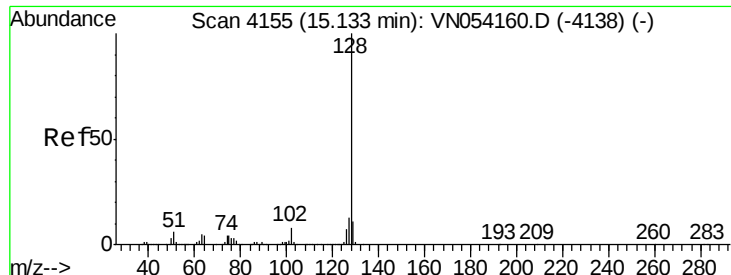
Tot Ion:180 Resp: 6588
 Ion Ratio Lower Upper
 180 100
 182 92.5 48.0 144.2
 145 29.7 14.2 42.8



#94
 Hexachlorobutadiene
 Concen: 0.864 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN054381.D
 Acq: 18 Mar 2019 9:26

Tgt Ion:225 Resp: 7901
 Ion Ratio Lower Upper
 225 100
 223 65.6 31.1 93.5
 227 61.3 31.9 95.9





#95

Naphthalene

Concen: 4.089 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN054381.D

Acq: 18 Mar 2019 9:26

Instrument :

MSVOA_N

ClientSampled :

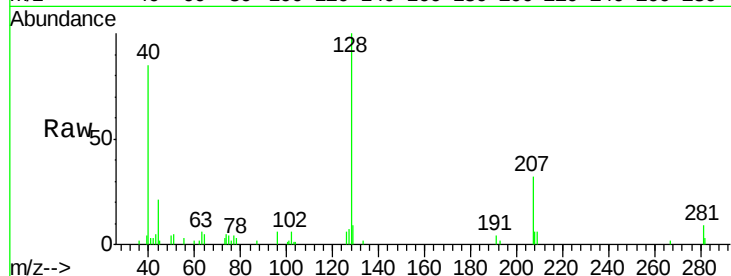
Tot Ion:128 Resp: 20097

Ion Ratio Lower Upper

128 100

127 10.5 10.1 15.1

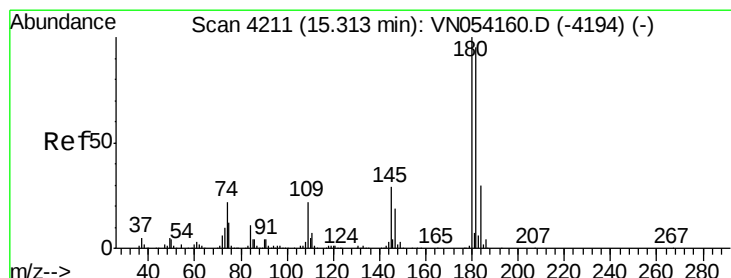
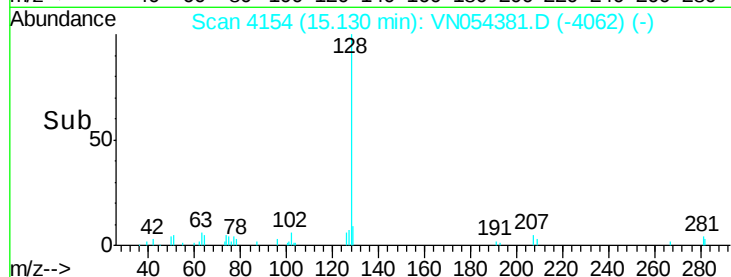
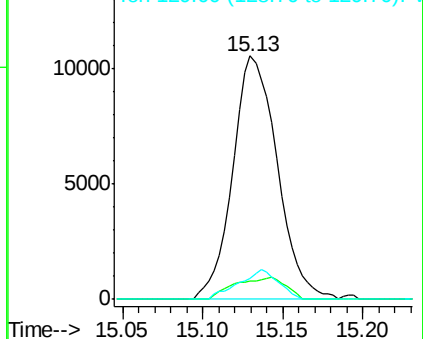
129 11.0 8.7 13.1



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: 0.689 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN054381.D

Acq: 18 Mar 2019 9:26

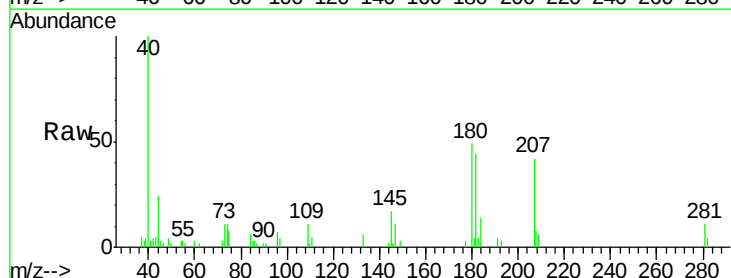
Tgt Ion:180 Resp: 8794

Ion Ratio Lower Upper

180 100

182 92.6 47.5 142.6

145 26.8 14.8 44.3



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

