

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091120\
 Data File : VN063322.D
 Acq On : 11 Sep 2020 18:18
 Operator : JC/MD
 Sample : L3988-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 12 00:43:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091020W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 11 06:02:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	365719	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	697976	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	673446	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	268719	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	291173	50.67	ug/l	0.00
Spiked Amount			Recovery	=	101.34%	
35) Dibromofluoromethane	7.55	113	223162	49.56	ug/l	0.00
Spiked Amount			Recovery	=	99.12%	
50) Toluene-d8	10.06	98	893258	51.77	ug/l	0.00
Spiked Amount			Recovery	=	103.54%	
62) 4-Bromofluorobenzene	12.38	95	328928	51.61	ug/l	0.00
Spiked Amount			Recovery	=	103.22%	

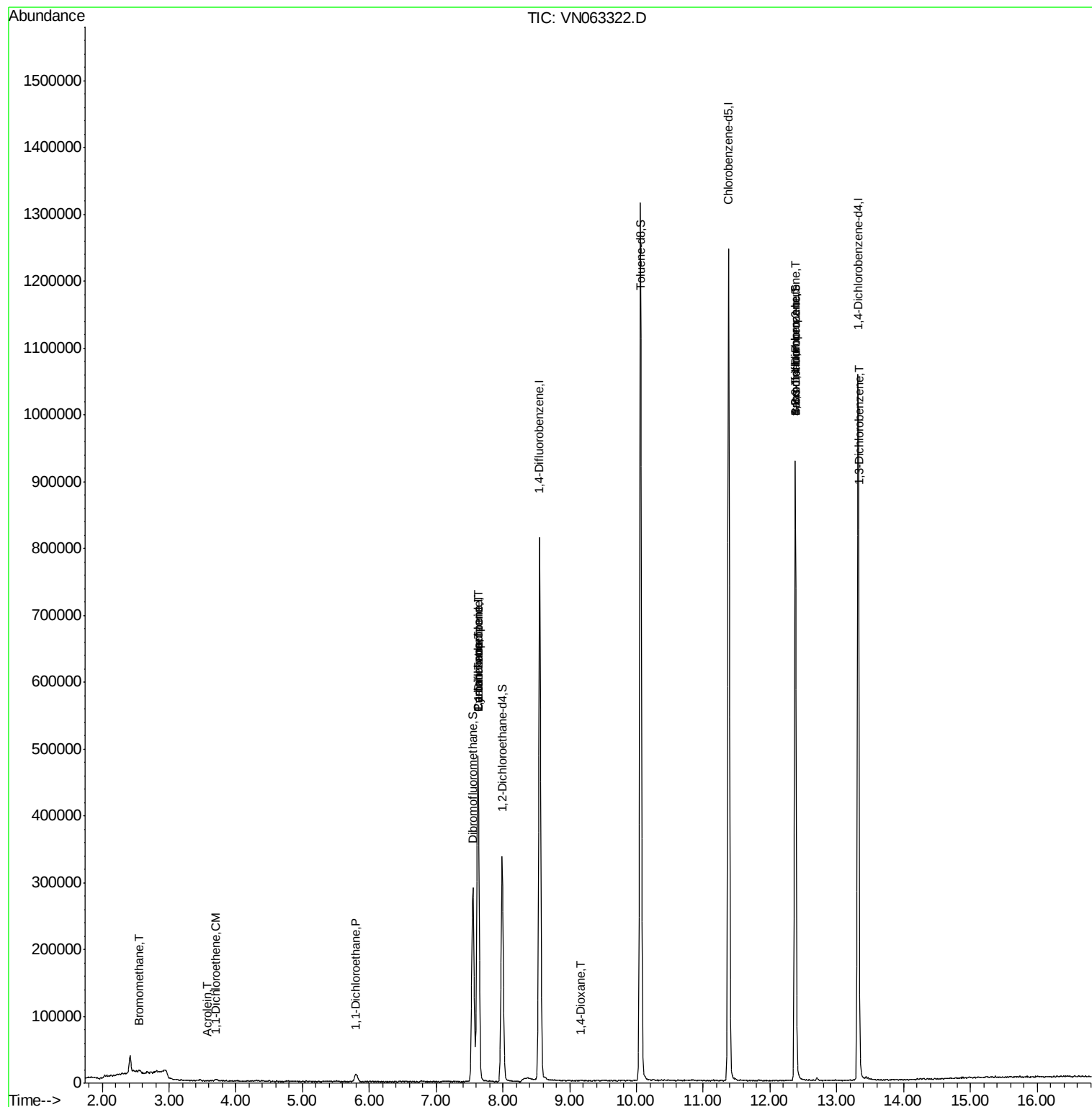
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1660	Below Cal	#	83
5) Bromomethane	2.55	94	889	0.256	ug/l #	48
12) 1,1-Dichloroethene	3.70	96	1193	0.298	ug/l #	74
13) Acrolein	3.58	56	181	32.838	ug/l #	34
17) Carbon Disulfide	4.01	76	465	Below Cal	#	75
20) Methylene Chloride	4.51	84	475	Below Cal	#	25
24) 1,1-Dichloroethane	5.80	63	17716	2.021	ug/l	94
31) Cyclohexane	7.63	56	9858	1.223	ug/l #	16
36) 1,1-Dichloropropene	7.62	75	33316	4.644	ug/l #	50
38) Carbon Tetrachloride	7.62	117	39798	5.636	ug/l #	16
49) 1,4-Dioxane	9.18	88	167	1.891	ug/l #	22
71) Bromoform	12.38	173	1026	0.281	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	175591	29.619	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	175591	79.580	ug/l #	9
87) 1,3-Dichlorobenzene	13.34	146	2347	0.258	ug/l #	1
88) 1,4-Dichlorobenzene	13.34	146	2347	Below Cal	#	1
95) Naphthalene	15.11	128	290	Below Cal	#	69

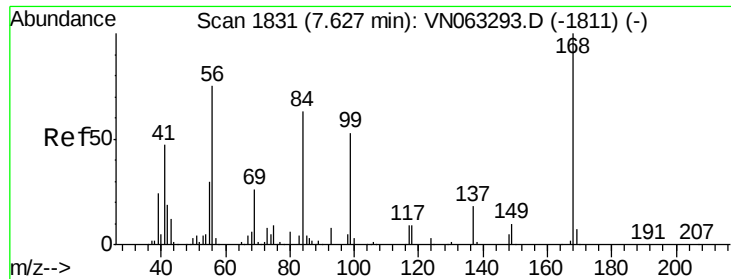
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.00 min

Lab File: VN063322.D

Acq: 11 Sep 2020 18:18

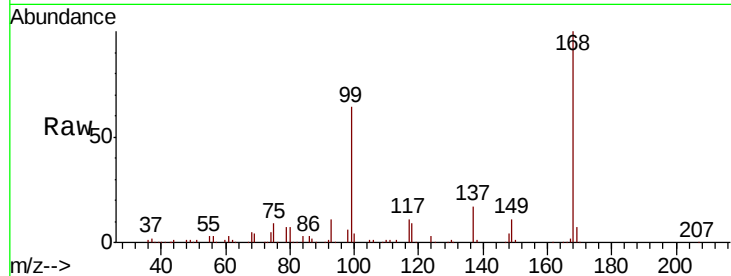
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 365719

Ion Ratio Lower Upper

168 100

99 63.7 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

150000

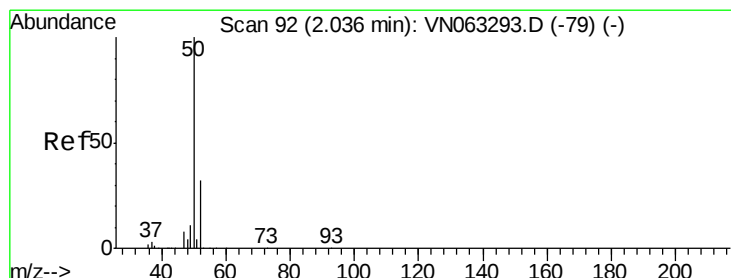
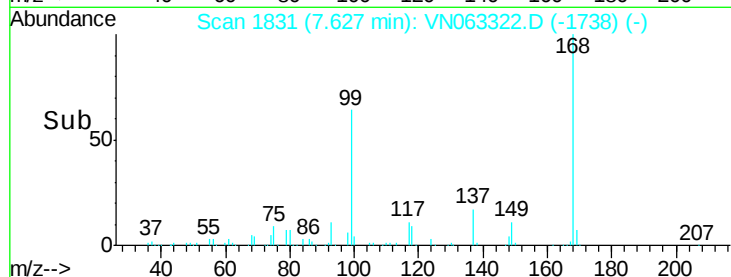
100000

50000

0

Time-->

7.55 7.60 7.65 7.70



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 92

Delta R.T. 0.00 min

Lab File: VN063322.D

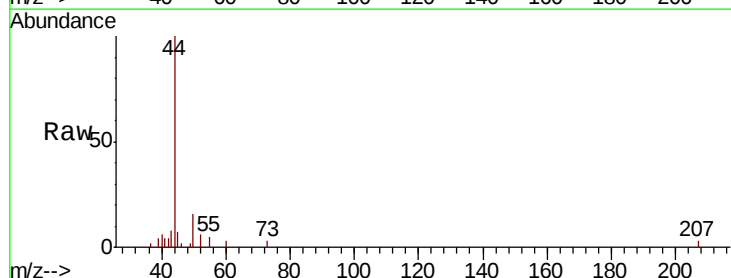
Acq: 11 Sep 2020 18:18

Tgt Ion: 50 Resp: 1660

Ion Ratio Lower Upper

50 100

52 41.2 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

1200

1000

800

600

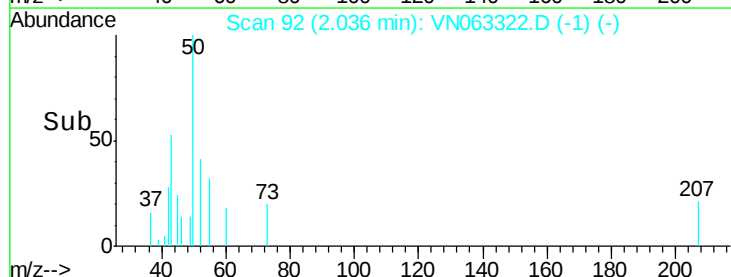
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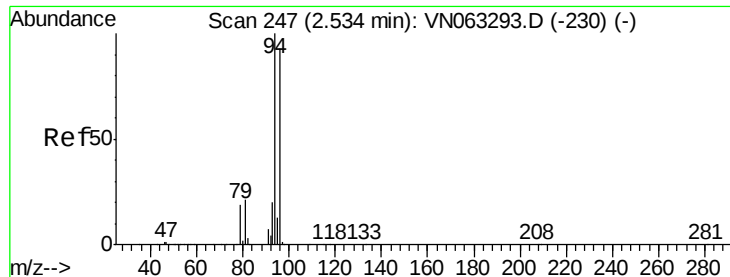
200

0

Time-->

2.00 2.05





#5

Bromomethane

Concen: 0.256 ug/l

RT: 2.55 min Scan# 253

Delta R.T. 0.02 min

Lab File: VN063322.D

Acq: 11 Sep 2020 18:18

Instrument :

MSVOA_N

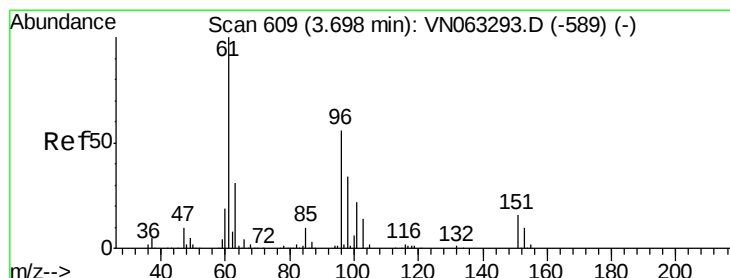
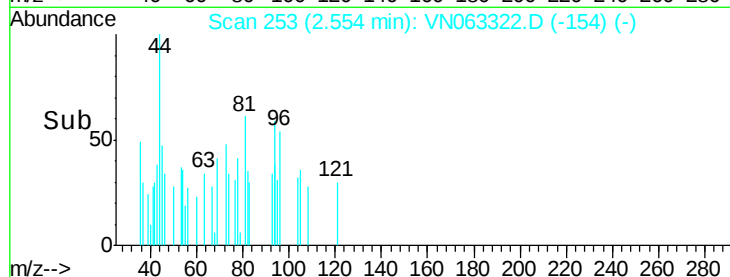
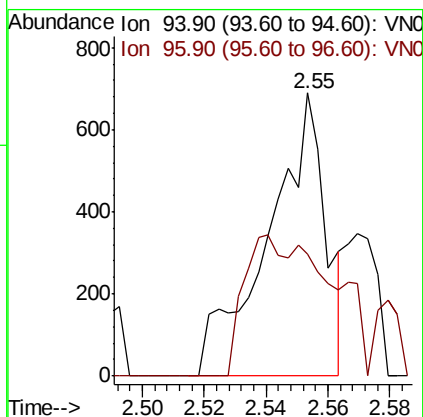
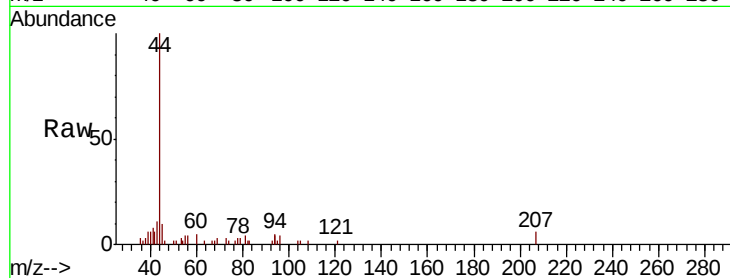
ClientSampled :

Tot Ion: 94 Resp: 889

Ion Ratio Lower Upper

94 100

96 43.0 74.3 111.5#



#12

1,1-Dichloroethene

Concen: 0.298 ug/l

RT: 3.70 min Scan# 609

Delta R.T. -0.00 min

Lab File: VN063322.D

Acq: 11 Sep 2020 18:18

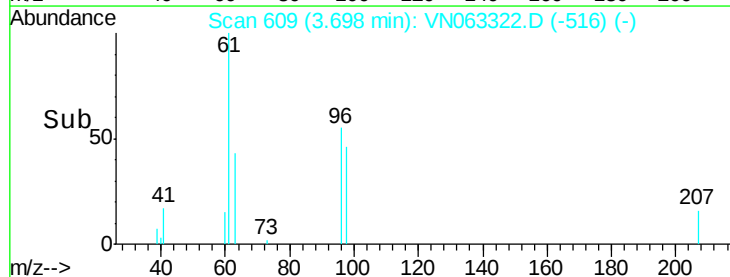
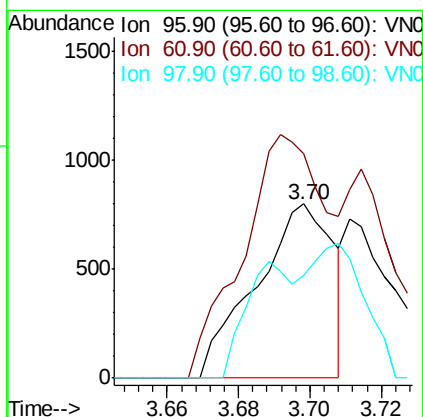
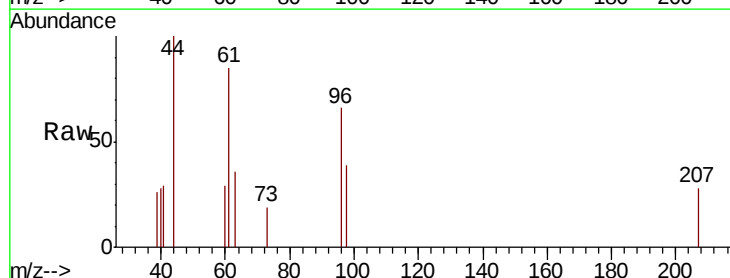
Tgt Ion: 96 Resp: 1193

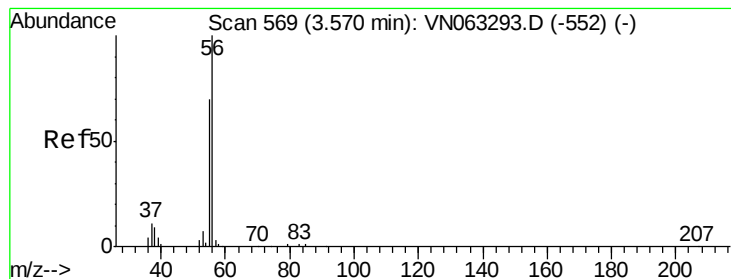
Ion Ratio Lower Upper

96 100

61 128.7 142.1 213.1#

98 59.3 48.8 73.2





#13

Acrolein

Concen: 32.838 ug/l

RT: 3.58 min Scan# 571

Delta R.T. 0.01 min

Lab File: VN063322.D

Acq: 11 Sep 2020 18:18

Instrument :

MSVOA_N

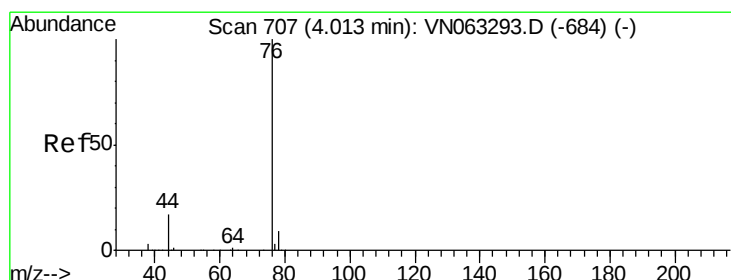
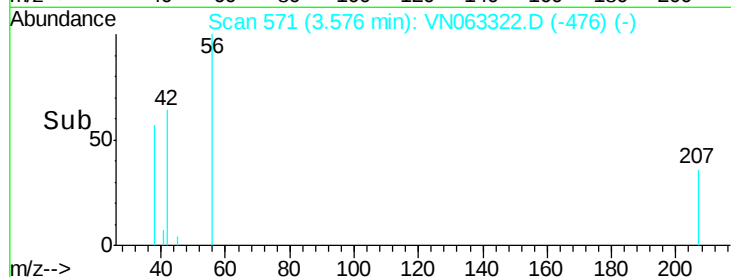
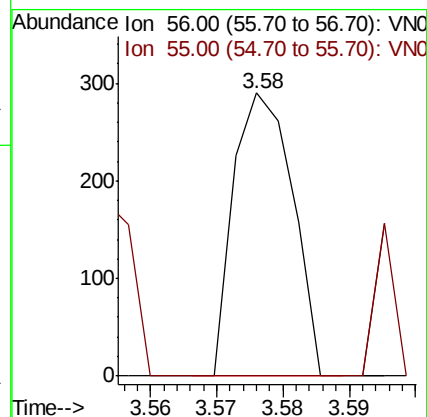
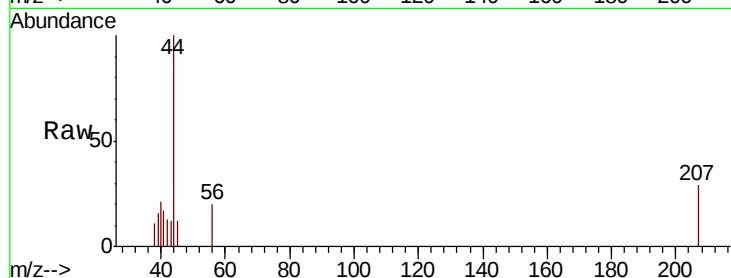
ClientSampled :

Tot Ion: 56 Resp: 181

Ion Ratio Lower Upper

56 100

55 16.6 57.2 85.8#



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.01 min Scan# 706

Delta R.T. -0.00 min

Lab File: VN063322.D

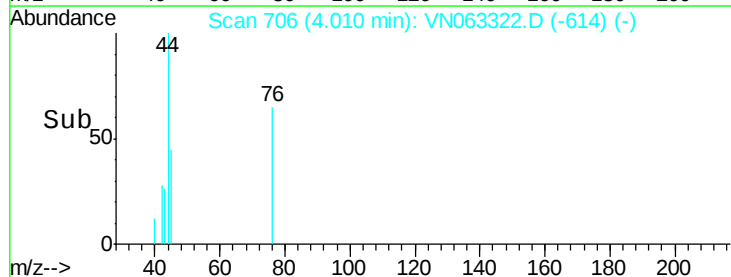
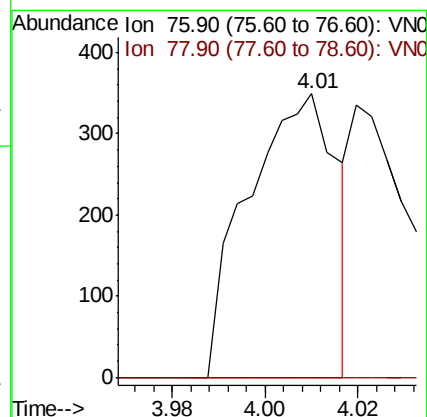
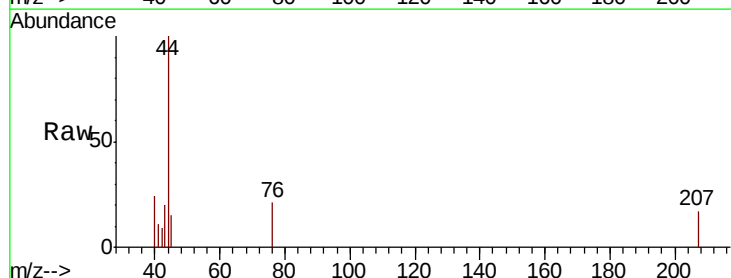
Acq: 11 Sep 2020 18:18

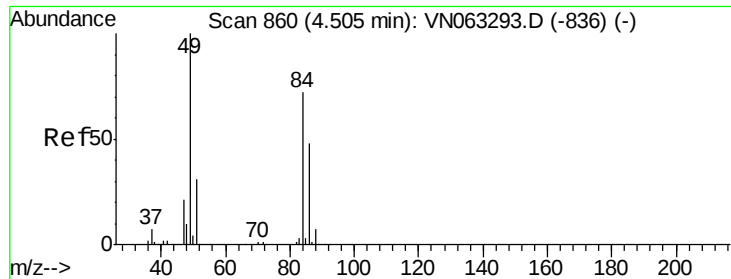
Tgt Ion: 76 Resp: 465

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#

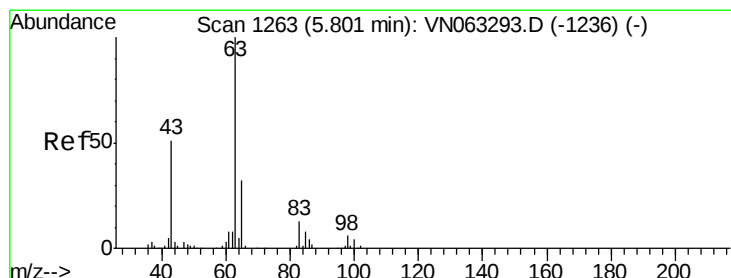
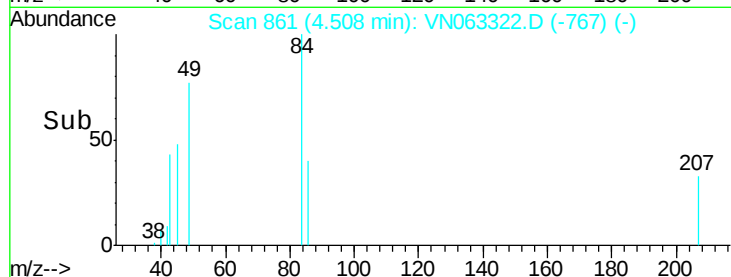
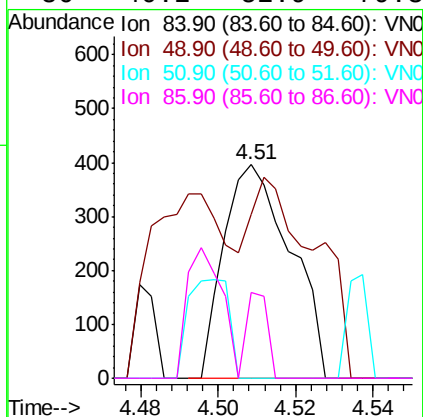
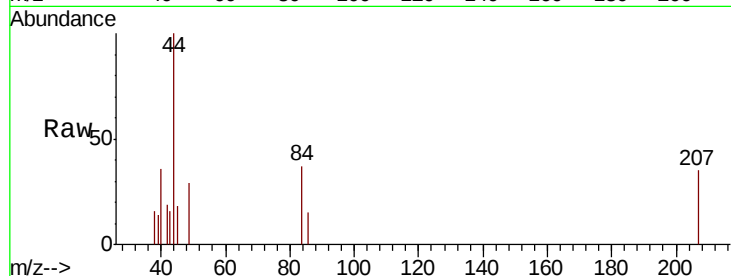




#20
Methylene Chloride
Concen: Below Cal
RT: 4.51 min Scan# 861
Delta R.T. 0.00 min
Lab File: VN063322.D
Acq: 11 Sep 2020 18:18

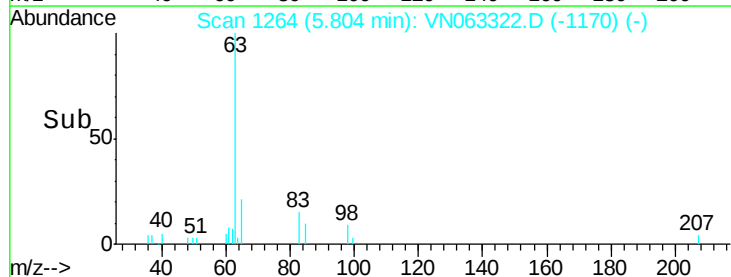
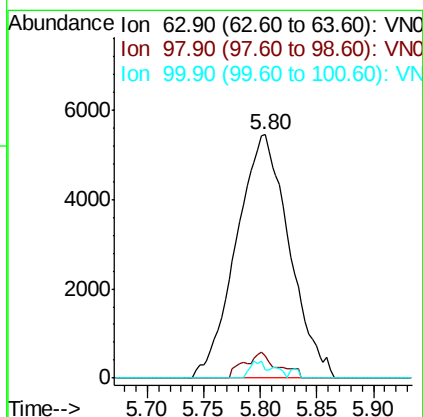
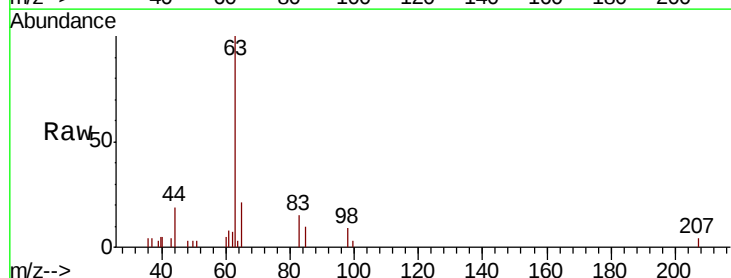
Instrument :
MSVOA_N
ClientSampled :

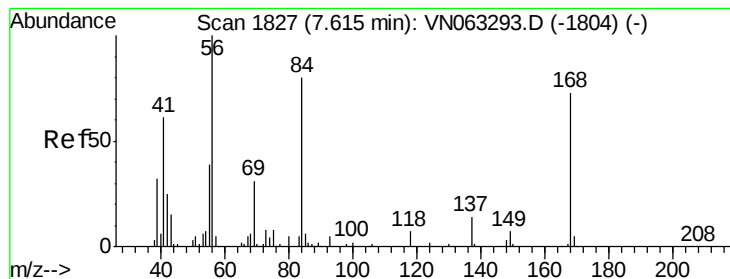
Tot Ion: 84 Resp: 475
Ion Ratio Lower Upper
84 100
49 21.0 111.1 166.7#
51 0.0 34.3 51.5#
86 40.2 52.9 79.3#



#24
1,1-Dichloroethane
Concen: 2.021 ug/l
RT: 5.80 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VN063322.D
Acq: 11 Sep 2020 18:18

Tgt Ion: 63 Resp: 17716
Ion Ratio Lower Upper
63 100
98 9.0 3.1 9.3
100 3.1 2.0 6.0





#31

Cyclohexane

Concen: 1.223 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN063322.D

Acq: 11 Sep 2020 18:18

Instrument :
MSVOA_N
ClientSampleId :

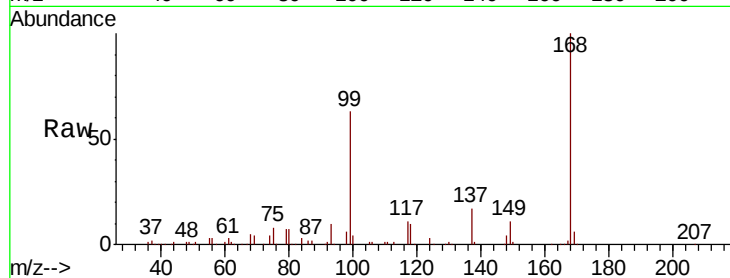
Tot Ion: 56 Resp: 9858

Ion Ratio Lower Upper

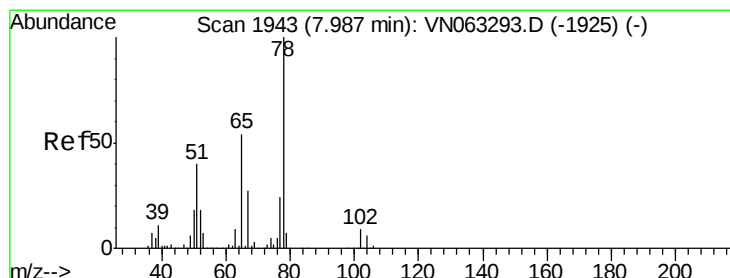
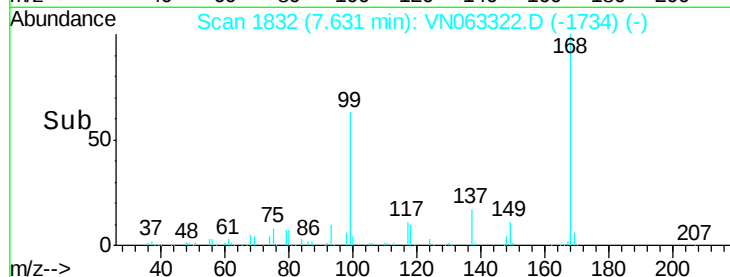
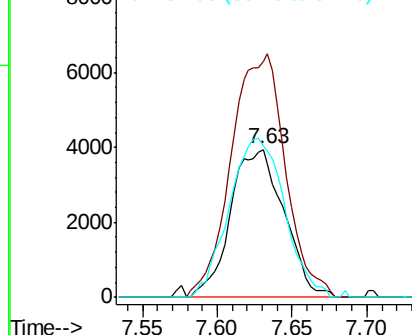
56 100

69 159.6 25.1 37.7#

84 102.9 64.2 96.2#



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: 50.675 ug/l

RT: 7.99 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN063322.D

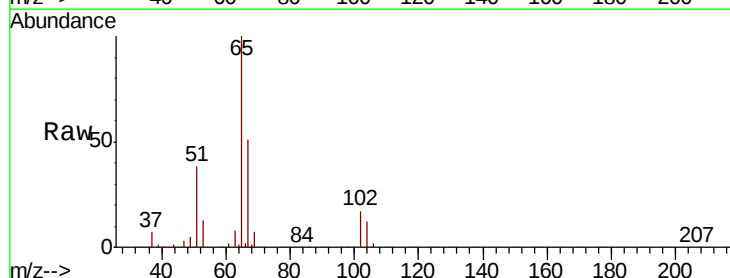
Acq: 11 Sep 2020 18:18

Tgt Ion: 65 Resp: 291173

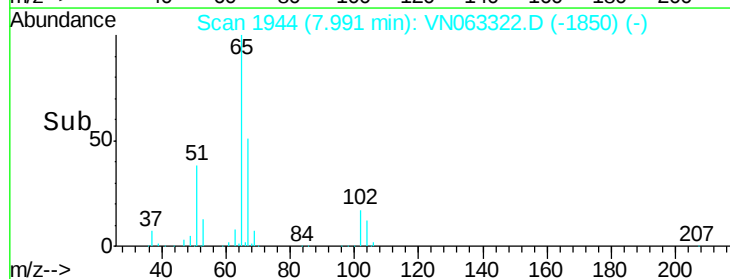
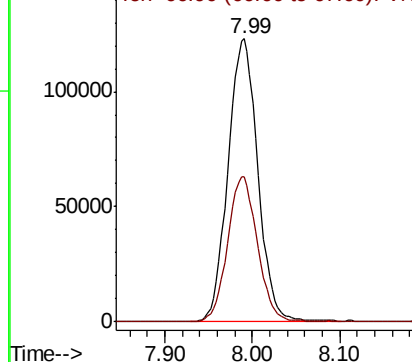
Ion Ratio Lower Upper

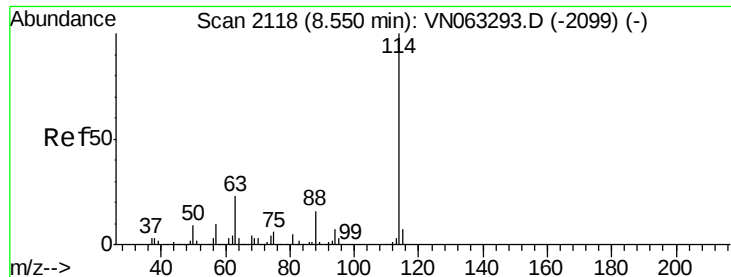
65 100

67 51.3 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

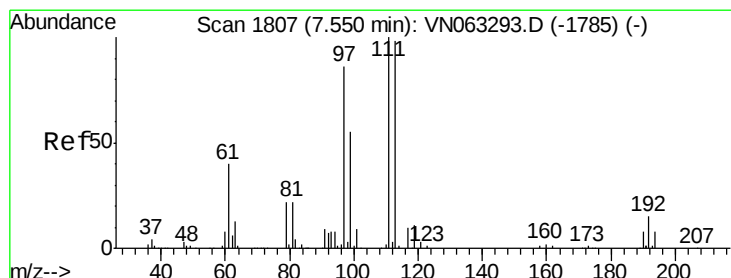
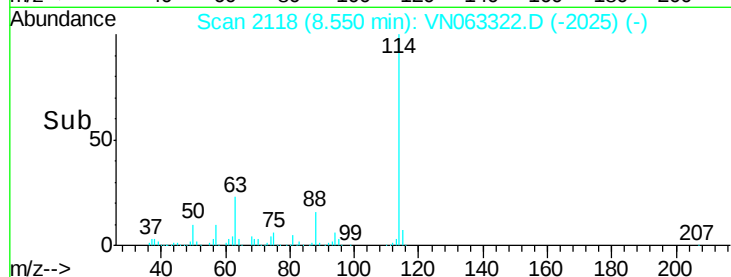
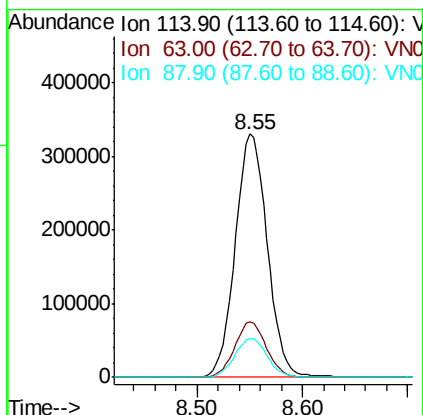
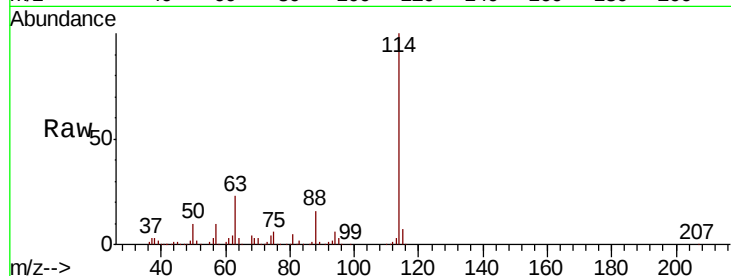




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063322.D
 Acq: 11 Sep 2020 18:18

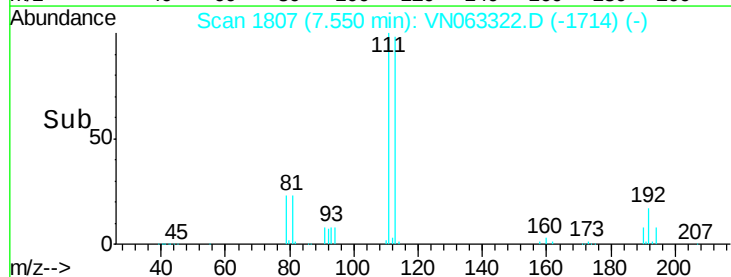
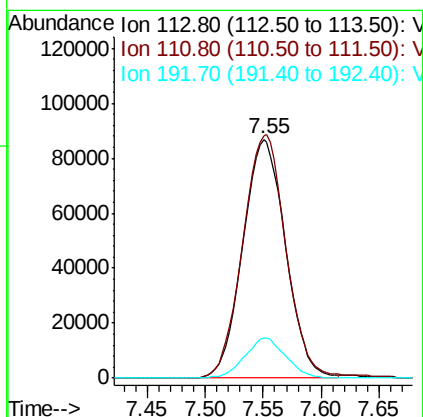
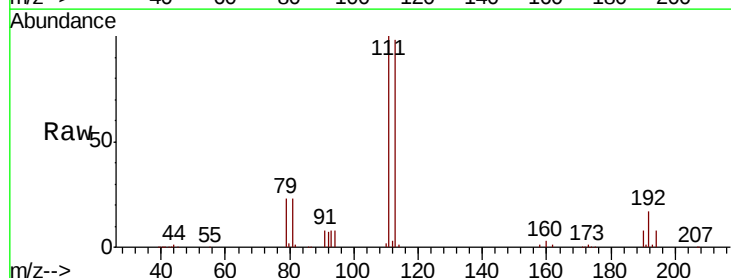
Instrument :
 MSVOA_N
 ClientSampleId :

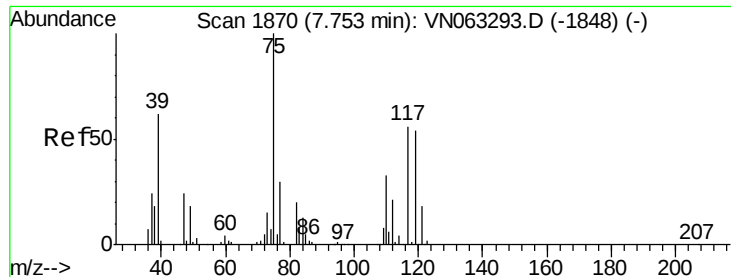
Tot Ion:114 Resp: 697976
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 46.0
 88 16.0 0.0 32.8



#35
 Dibromofluoromethane
 Concen: 49.560 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. -0.00 min
 Lab File: VN063322.D
 Acq: 11 Sep 2020 18:18

Tgt Ion:113 Resp: 223162
 Ion Ratio Lower Upper
 113 100
 111 103.2 82.2 123.2
 192 16.1 12.9 19.3

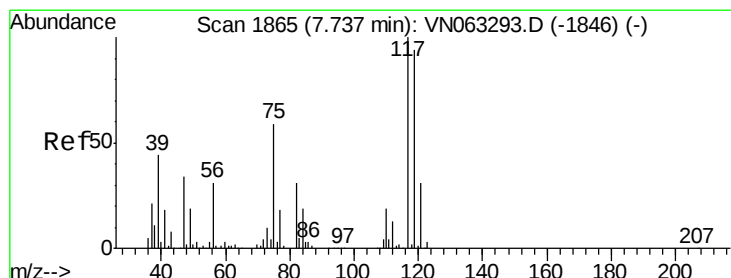
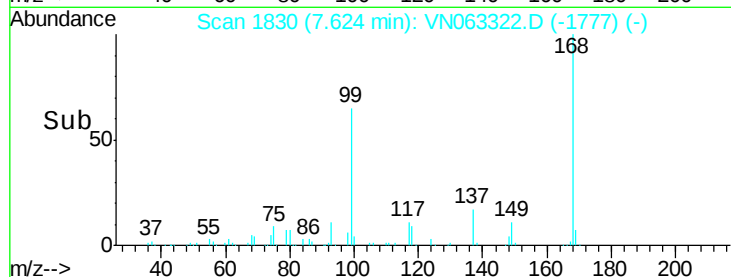
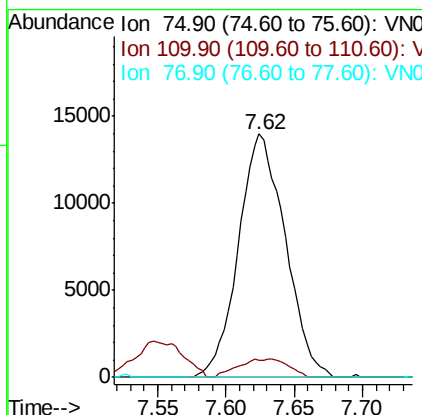
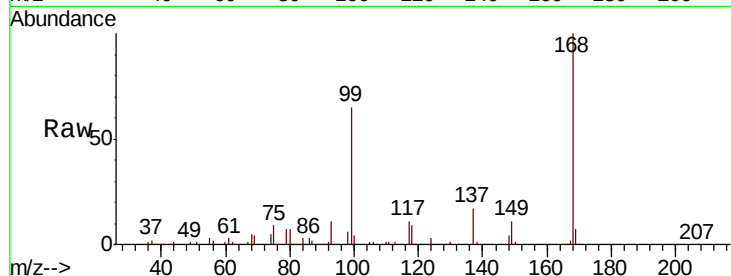




#36
 1,1-Dichloropropene
 Concen: 4.644 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063322.D
 Acq: 11 Sep 2020 18:18

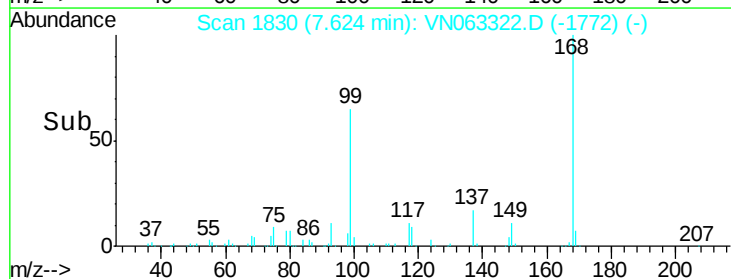
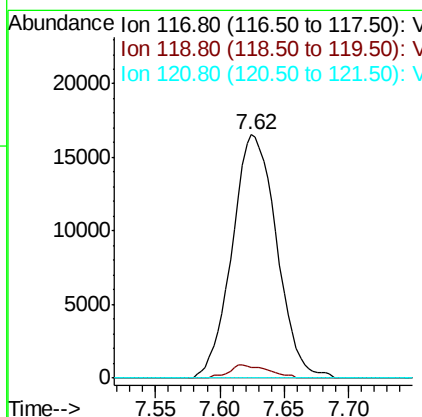
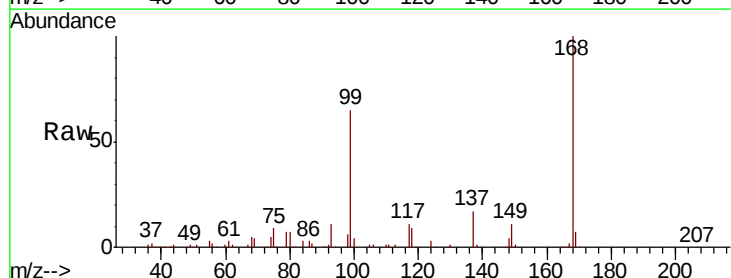
Instrument :
 MSVOA_N
 ClientSampled :

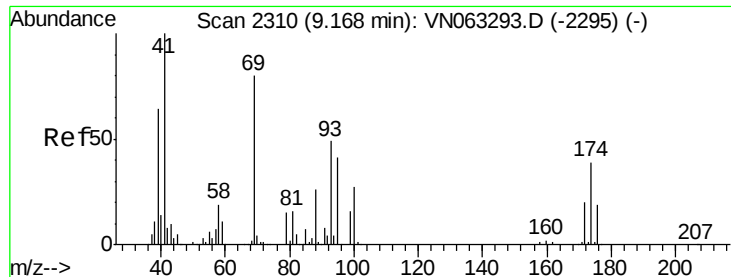
Tot Ion	75	Resp	33316
Ion Ratio	100	Lower	Upper
110	8.1	16.4	49.4#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 5.636 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.11 min
 Lab File: VN063322.D
 Acq: 11 Sep 2020 18:18

Tgt Ion	117	Resp	39798
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
119	4.3	75.3	112.9#
121	0.0	24.6	37.0#





#49

1,4-Dioxane

Concen: 1.891 ug/l

RT: 9.18 min Scan# 2313

Delta R.T. 0.01 min

Lab File: VN063322.D

Acq: 11 Sep 2020 18:18

Instrument :

MSVOA_N

ClientSampleId :

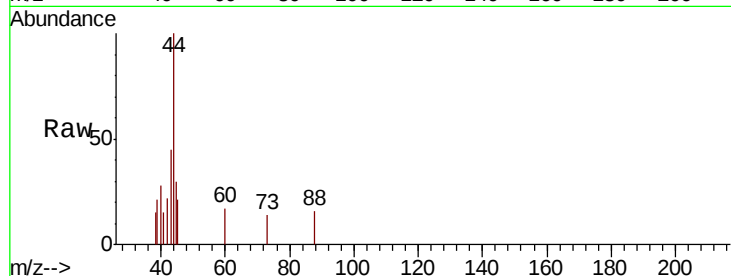
Tot Ion: 88 Resp: 167

Ion Ratio Lower Upper

88 100

43 98.8 30.5 45.7#

58 18.0 58.9 88.3#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

800

600

400

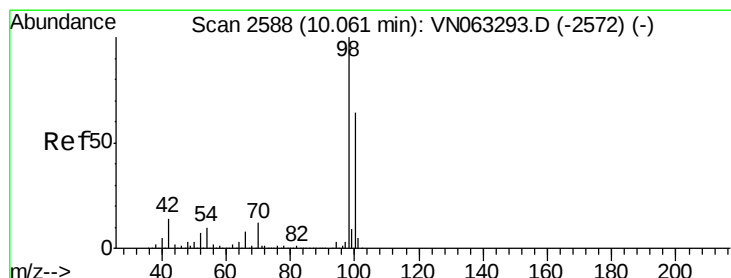
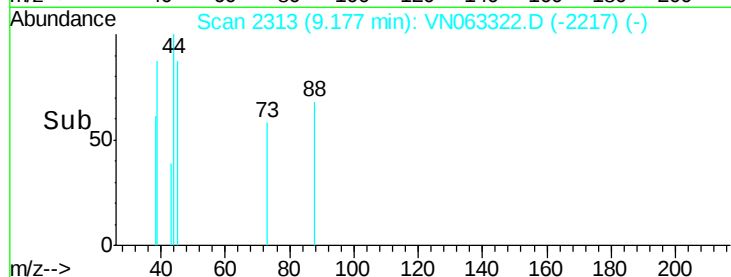
200

0

9.15 9.16 9.17 9.18 9.19

9.18

Time-->



#50

Toluene-d8

Concen: 51.765 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. -0.00 min

Lab File: VN063322.D

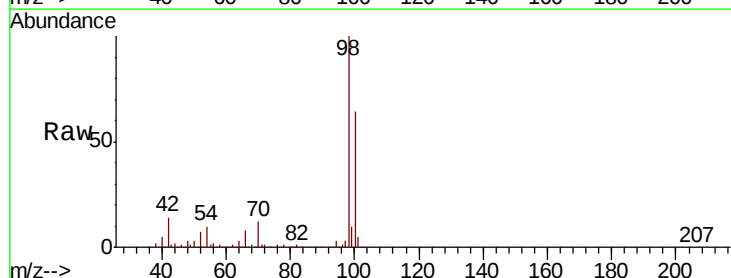
Acq: 11 Sep 2020 18:18

Tgt Ion: 98 Resp: 893258

Ion Ratio Lower Upper

98 100

100 62.8 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

500000

400000

300000

200000

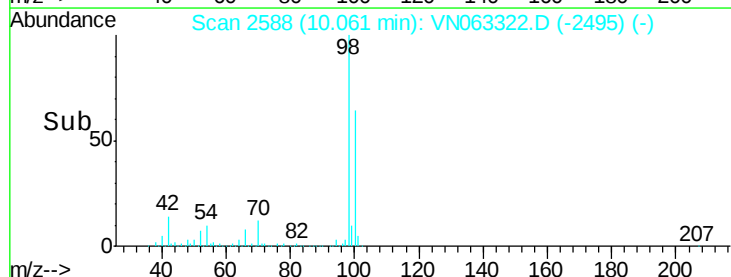
100000

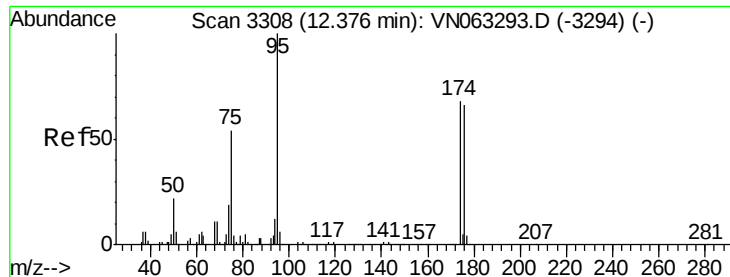
0

10.00 10.10 10.20

10.06

Time-->





#62

4-Bromofluorobenzene

Concen: 51.609 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.00 min

Lab File: VN063322.D

Acq: 11 Sep 2020 18:18

Instrument :

MSVOA_N

ClientSampled :

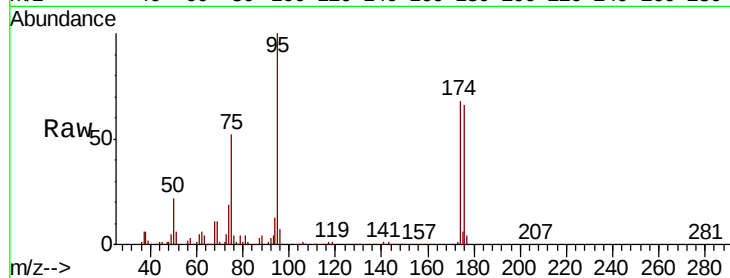
Tot Ion: 95 Resp: 328928

Ion Ratio Lower Upper

95 100

174 68.6 0.0 136.6

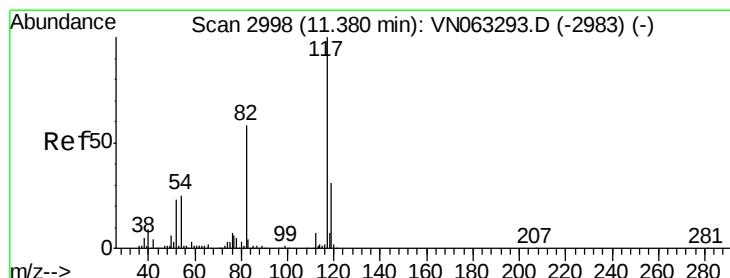
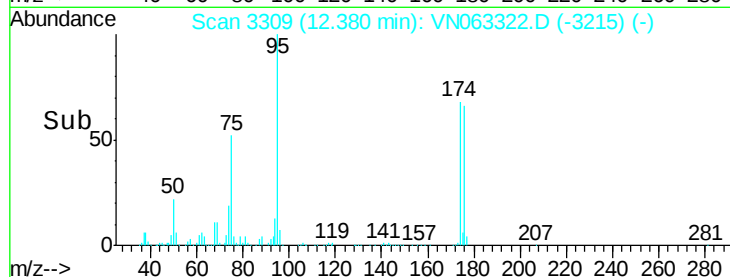
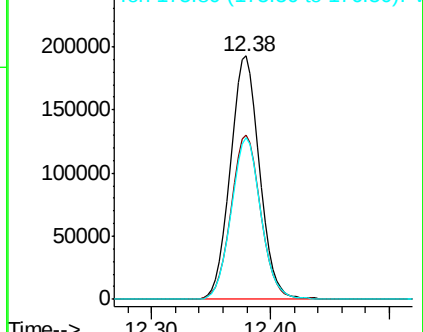
176 67.3 0.0 132.8



Abundance Ion 94.90 (94.60 to 95.60): VN063322.D (-3215) (-)

Ion 173.80 (173.50 to 174.50): VN063322.D (-3215) (-)

Ion 175.80 (175.50 to 176.50): VN063322.D (-3215) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063322.D

Acq: 11 Sep 2020 18:18

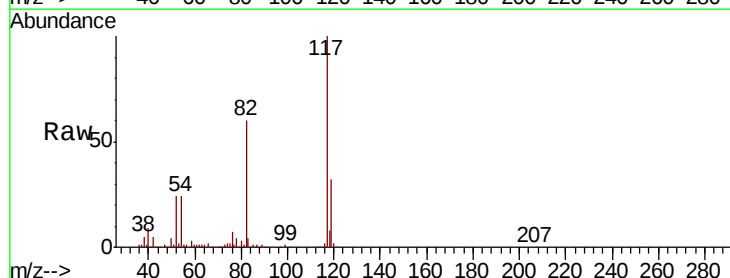
Tgt Ion: 117 Resp: 673446

Ion Ratio Lower Upper

117 100

82 59.7 46.4 69.6

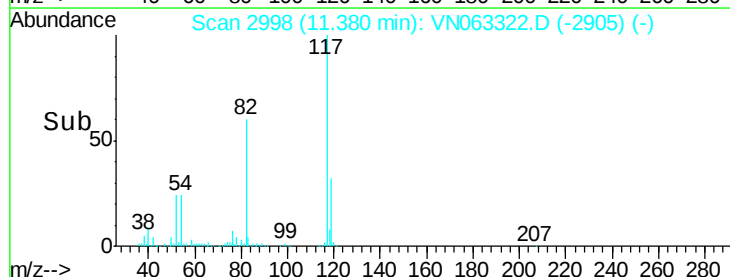
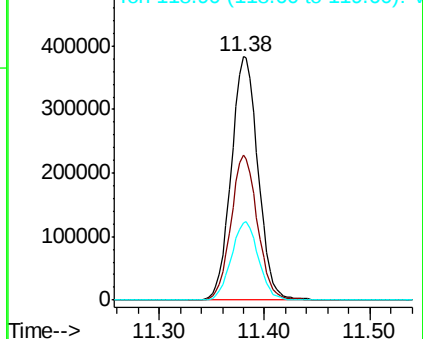
119 31.9 24.8 37.2

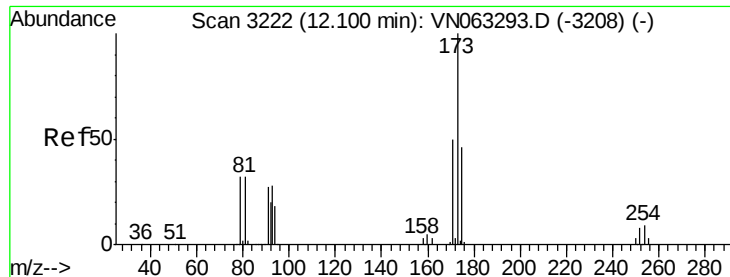


Abundance Ion 116.90 (116.60 to 117.60): VN063322.D (-2905) (-)

Ion 82.00 (81.70 to 82.70): VN063322.D (-2905) (-)

Ion 118.90 (118.60 to 119.60): VN063322.D (-2905) (-)





#71

Bromoform

Concen: 0.281 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.28 min

Lab File: VN063322.D

Acq: 11 Sep 2020 18:18

Instrument :

MSVOA_N

ClientSampled :

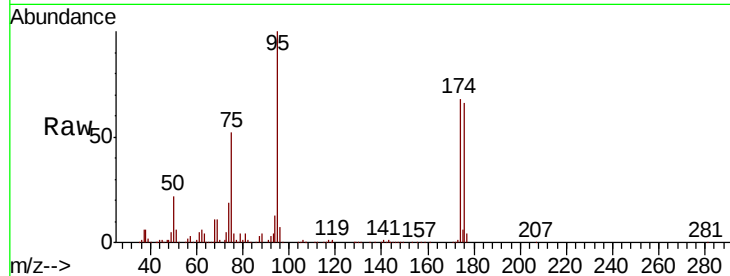
Tot Ion:173 Resp: 1026

Ion Ratio Lower Upper

173 100

175 1392.4 23.8 71.5#

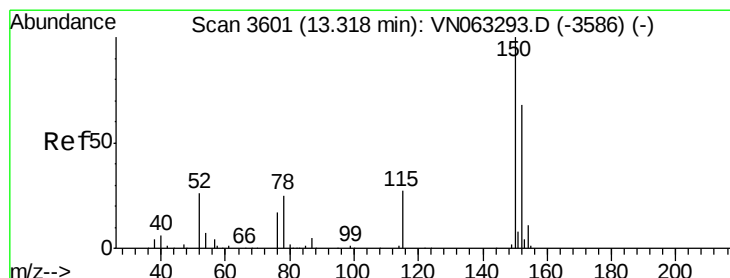
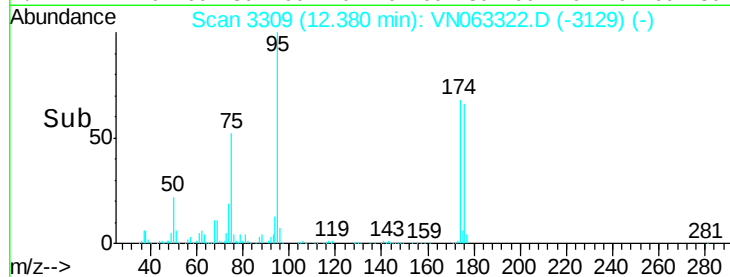
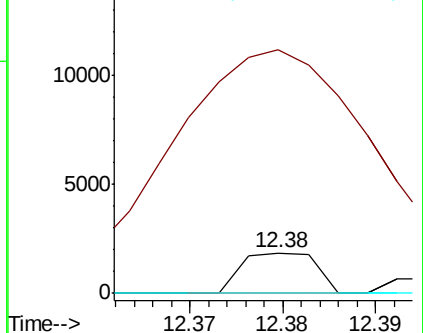
254 0.0 0.0 0.0



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: 13.32 min Scan# 3602

Delta R.T. 0.00 min

Lab File: VN063322.D

Acq: 11 Sep 2020 18:18

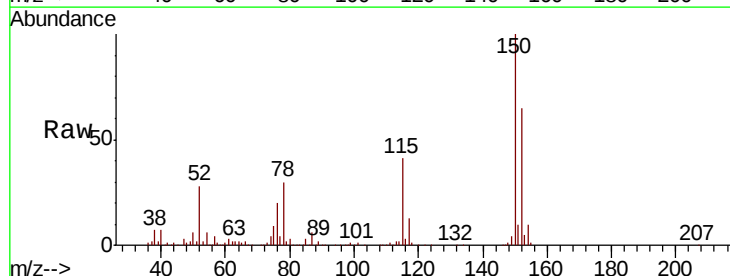
Tgt Ion:152 Resp: 268719

Ion Ratio Lower Upper

152 100

115 62.1 31.5 94.5

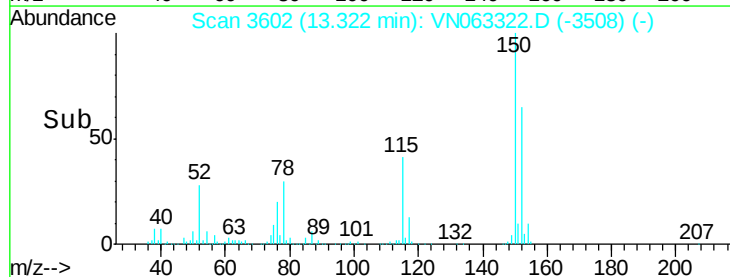
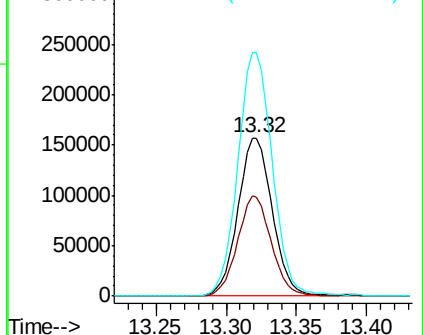
150 154.5 0.0 344.0

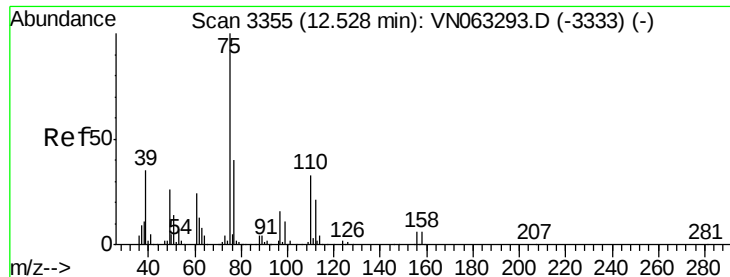


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 29.619 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063322.D

Acq: 11 Sep 2020 18:18

Instrument :

MSVOA_N

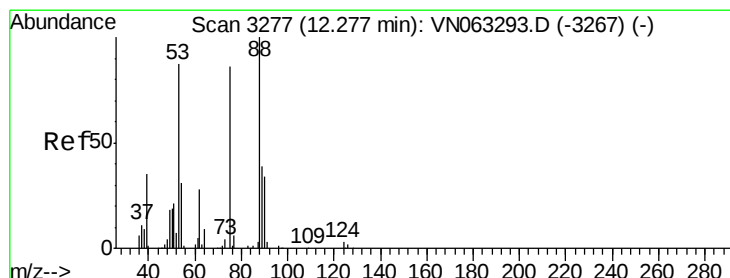
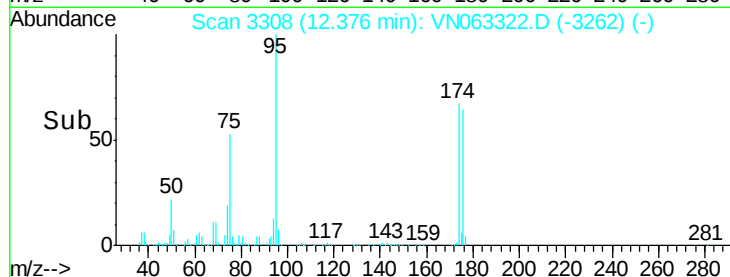
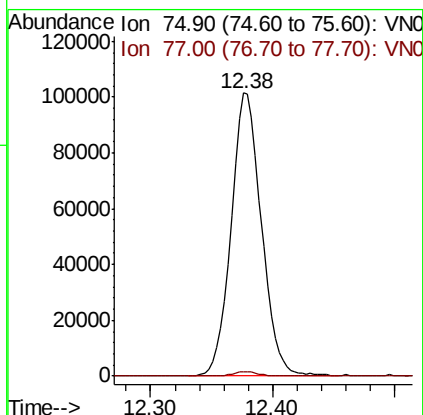
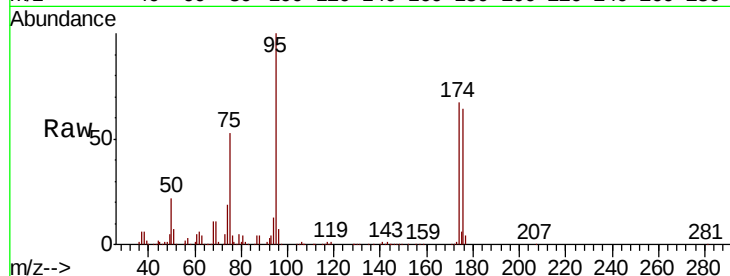
ClientSampled :

Tot Ion: 75 Resp: 175591

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 79.580 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063322.D

Acq: 11 Sep 2020 18:18

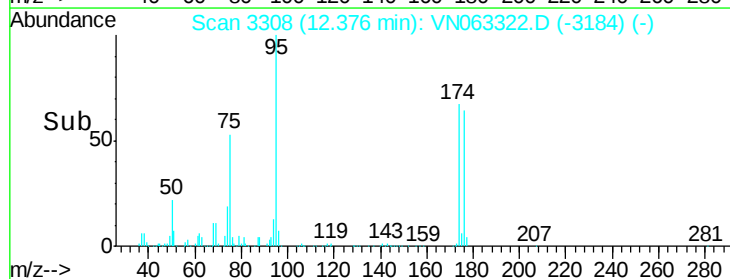
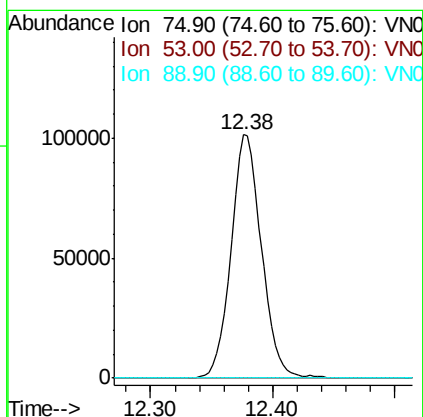
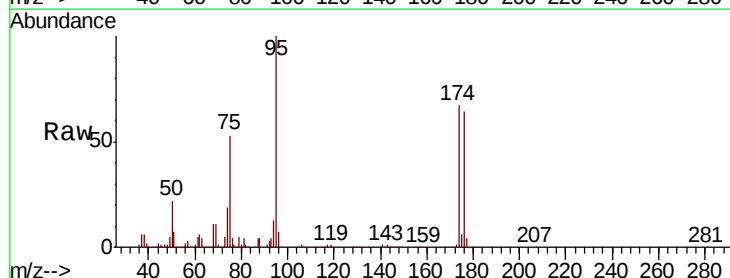
Tgt Ion: 75 Resp: 175591

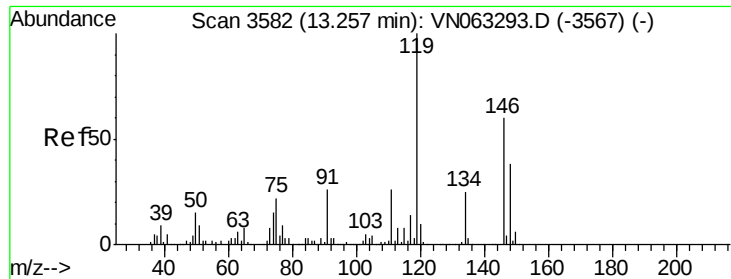
Ion Ratio Lower Upper

75 100

53 0.0 81.8 122.8#

89 0.0 36.7 55.1#

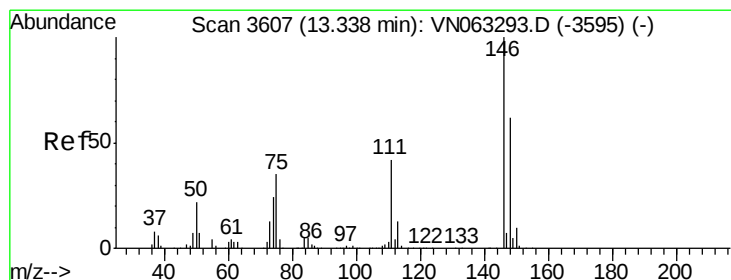
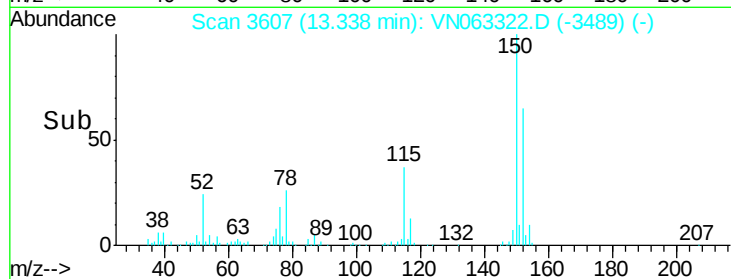
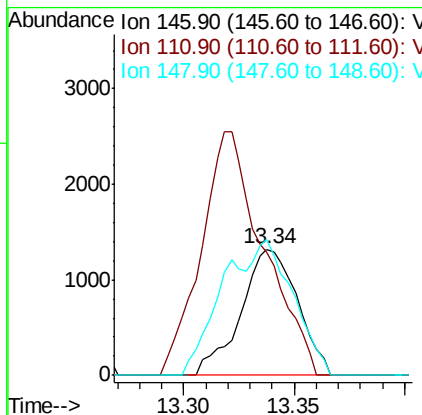
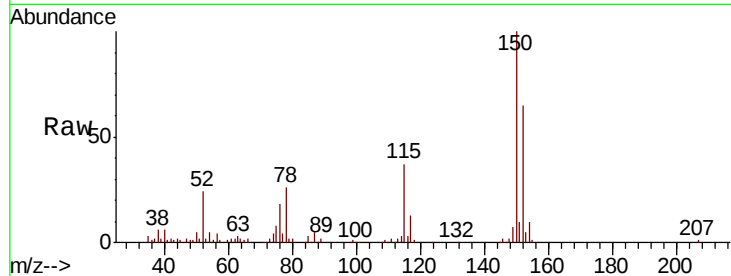




#87
 1,3-Dichlorobenzene
 Concen: 0.258 ug/l
 RT: 13.34 min Scan# 3607
 Delta R.T. 0.08 min
 Lab File: VN063322.D
 Acq: 11 Sep 2020 18:18

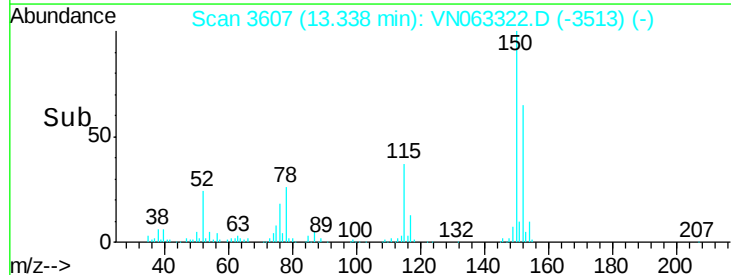
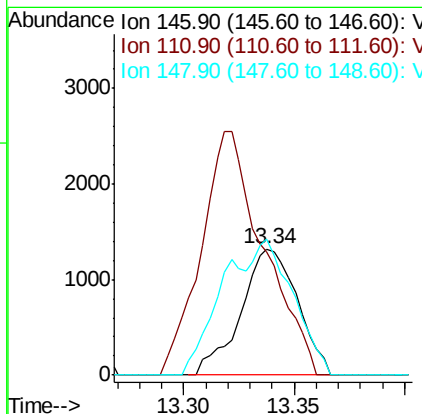
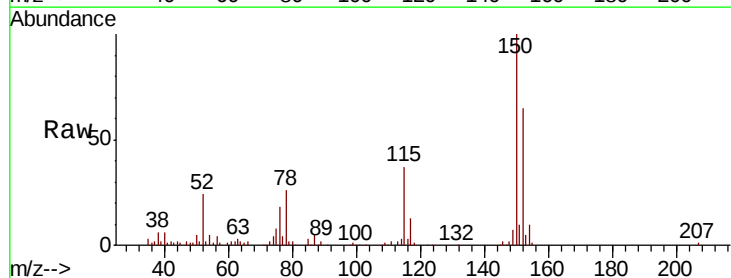
Instrument :
 MSVOA_N
 ClientSampleId :

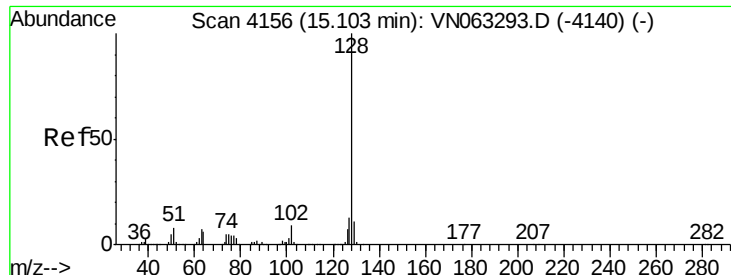
Tot Ion:146 Resp: 2347
 Ion Ratio Lower Upper
 146 100
 111 213.1 21.8 65.4#
 148 55.7 31.8 95.4



#88
 1,4-Dichlorobenzene
 Concen: Below Cal
 RT: 13.34 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VN063322.D
 Acq: 11 Sep 2020 18:18

Tgt Ion:146 Resp: 2347
 Ion Ratio Lower Upper
 146 100
 111 213.1 21.3 64.0#
 148 55.7 31.5 94.5





#95
Naphthalene
Concen: Below Cal
RT: 15.11 min Scan# 4157
Delta R.T. 0.00 min
Lab File: VN063322.D
Acq: 11 Sep 2020 18:18

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:128 Resp: 290
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 8.6 12.8#

