

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN093019\
 Data File : VN058438.D
 Acq On : 30 Sep 2019 16:17
 Operator : JC/SP
 Sample : K5080-18
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-PZ144I-20190925

Quant Time: Oct 01 01:32:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 30 08:07:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	425661	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	695113	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	589831	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	228285	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	309295	49.72	ug/l	0.00
Spiked Amount			Recovery	=	99.44%	
35) Dibromofluoromethane	7.57	113	217387	51.03	ug/l	0.00
Spiked Amount			Recovery	=	102.06%	
50) Toluene-d8	10.09	98	864864	51.82	ug/l	0.00
Spiked Amount			Recovery	=	103.64%	
62) 4-Bromofluorobenzene	12.41	95	269565	44.67	ug/l	0.00
Spiked Amount			Recovery	=	89.34%	

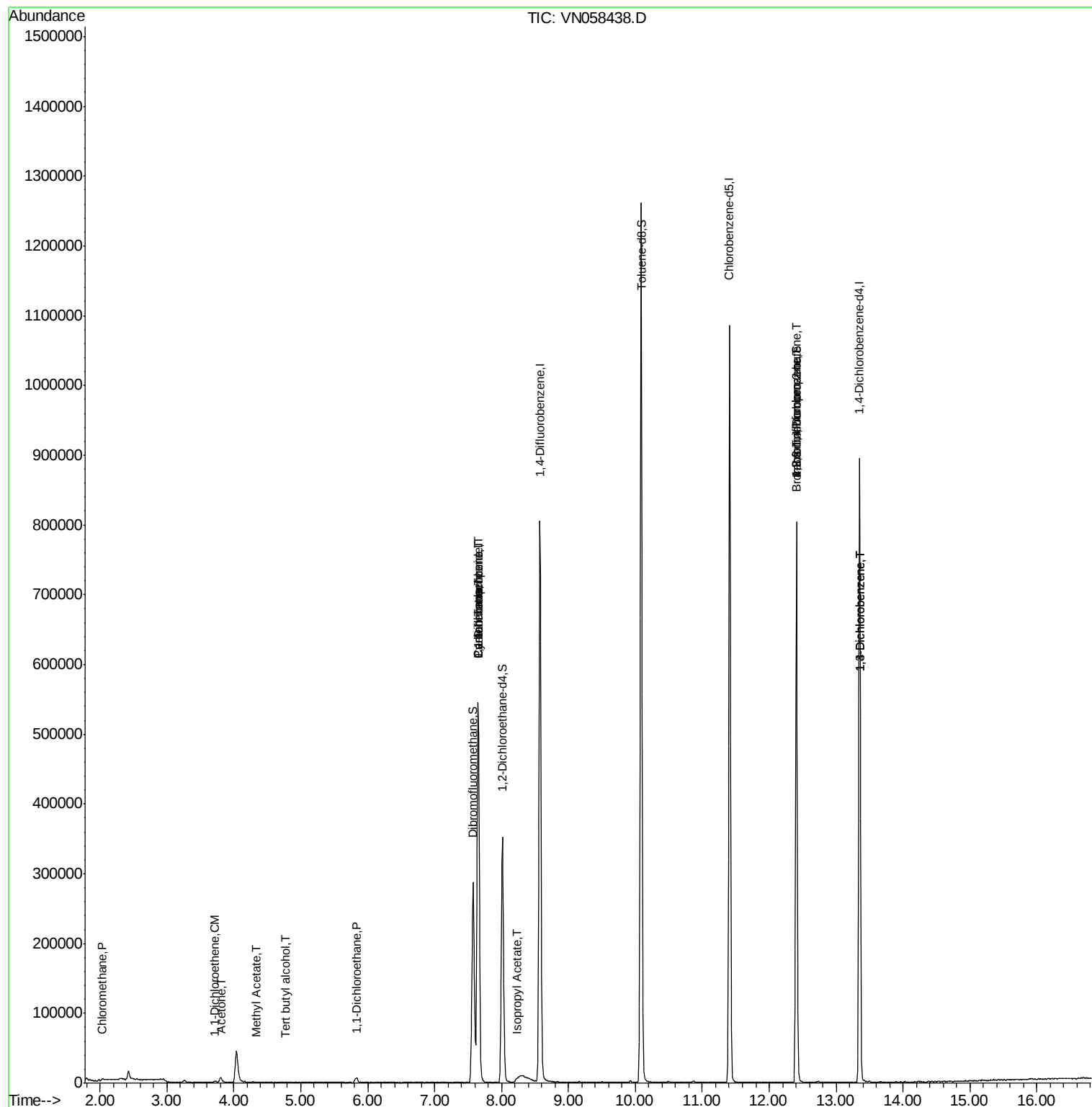
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	1746	0.340	ug/l	97
11) Tert butyl alcohol	4.77	59	148	0.214	ug/l #	71
12) 1,1-Dichloroethene	3.72	96	829	0.206	ug/l #	36
16) Acetone	3.80	43	12771	6.023	ug/l	99
18) Methyl Acetate	4.32	43	1150	0.216	ug/l #	65
24) 1,1-Dichloroethane	5.83	63	11669	1.319	ug/l #	95
31) Cyclohexane	7.65	56	10389	1.207	ug/l #	2
36) 1,1-Dichloropropene	7.65	75	36552	5.499	ug/l #	51
38) Carbon Tetrachloride	7.65	117	42659	7.110	ug/l #	16
43) Isopropyl Acetate	8.22	43	3447	0.325	ug/l #	63
71) Bromoform	12.39	173	122	0.739	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	147761	35.437	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	147761	107.628	ug/l #	7
87) 1,3-Dichlorobenzene	13.37	146	1892	0.264	ug/l #	25
88) 1,4-Dichlorobenzene	13.37	146	1892	0.265	ug/l #	25
95) Naphthalene	15.14	128	115	Below Cal	#	70

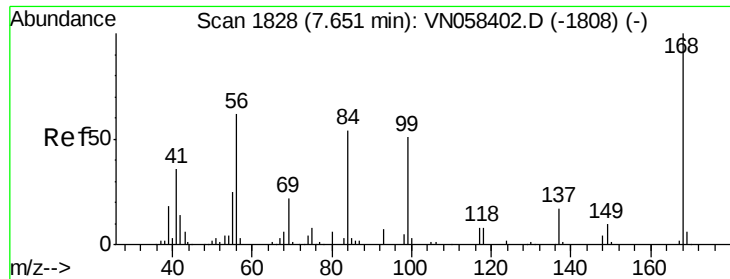
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Sep 30 08:07:38 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058438.D

Acq: 30 Sep 2019 16:17

Instrument :

MSVOA_N

ClientSampleId :

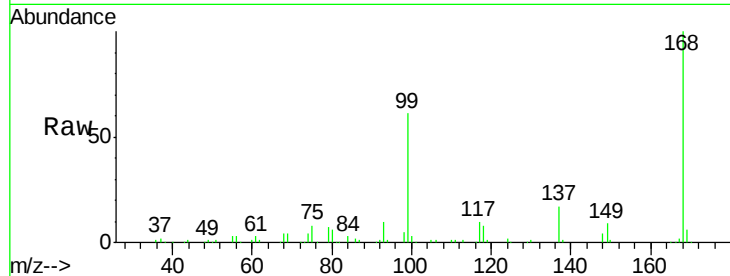
SA-PZ144I-20190925

Tot Ion:168 Resp: 425661

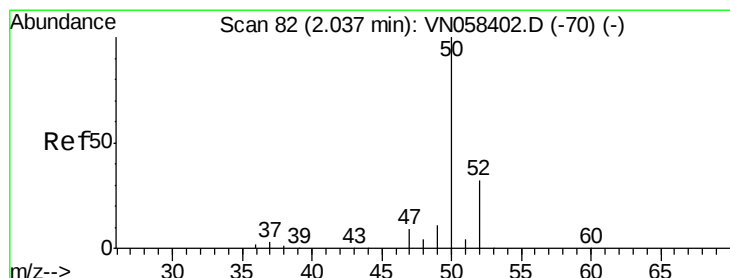
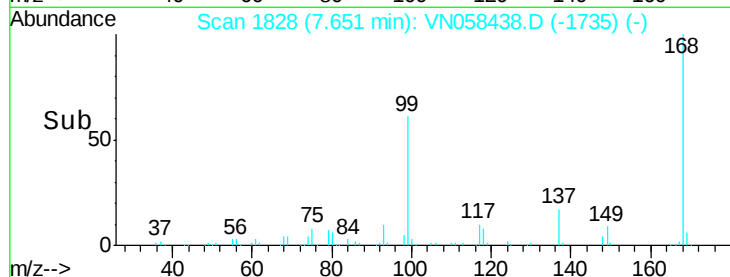
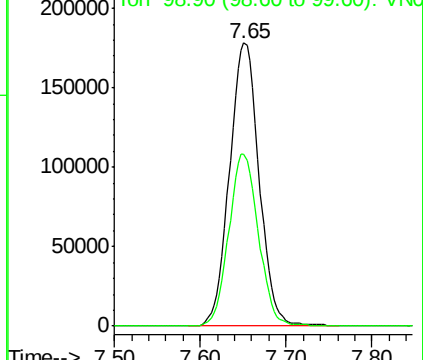
Ion Ratio Lower Upper

168 100

99 60.9 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): VN058438.D (-1735) (-)



#3

Chloromethane

Concen: 0.340 ug/l

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN058438.D

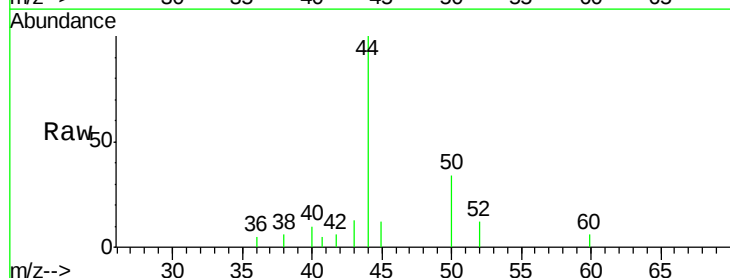
Acq: 30 Sep 2019 16:17

Tgt Ion: 50 Resp: 1746

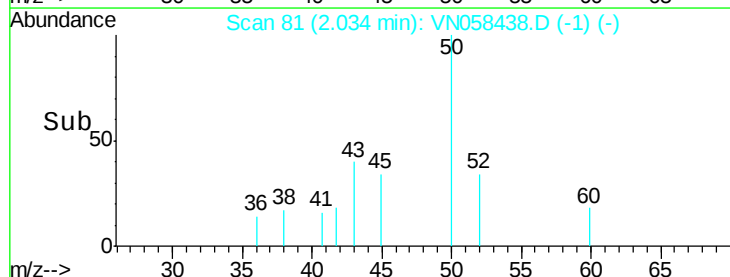
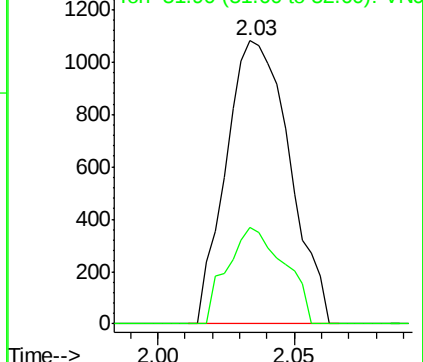
Ion Ratio Lower Upper

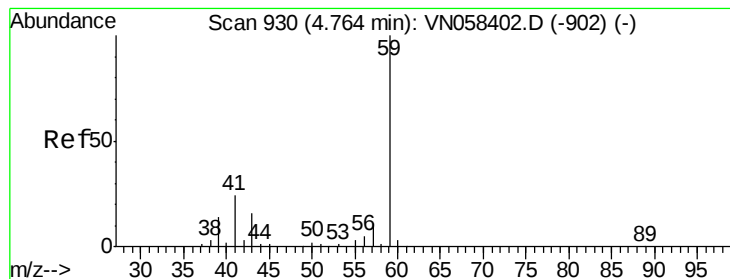
50 100

52 34.0 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN058438.D (-1) (-)



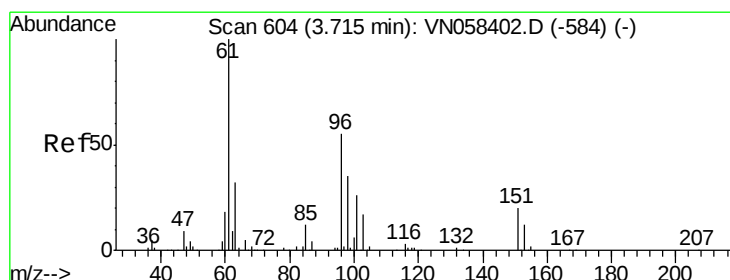
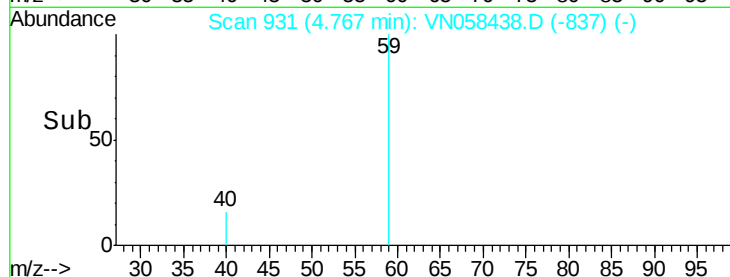
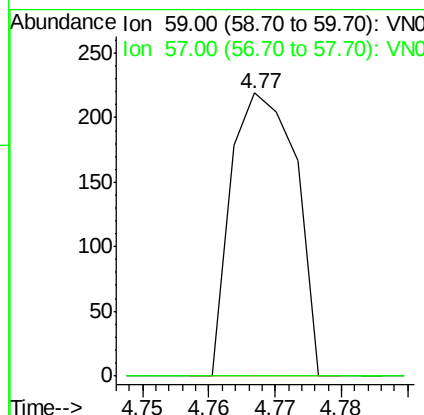
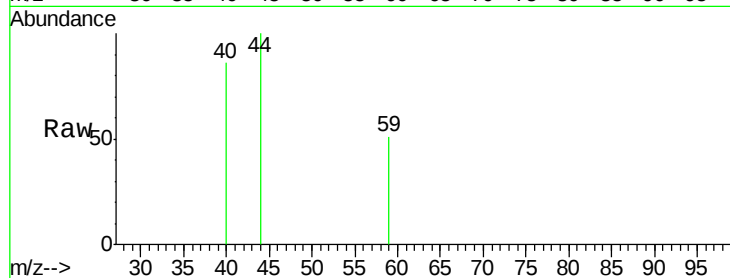


#11

Tert butyl alcohol
 Concen: 0.214 ug/l
 RT: 4.77 min Scan# 931
 Delta R.T. 0.00 min
 Lab File: VN058438.D
 Acq: 30 Sep 2019 16:17

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-PZ144I-20190925

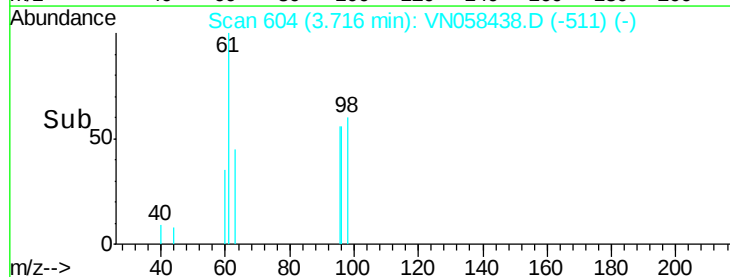
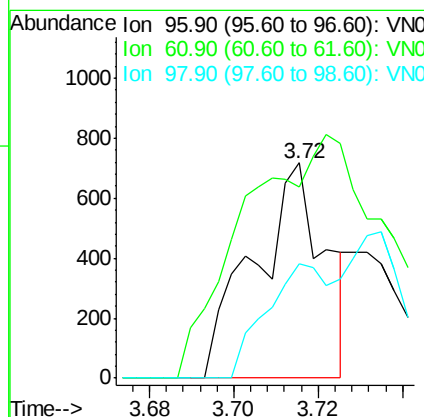
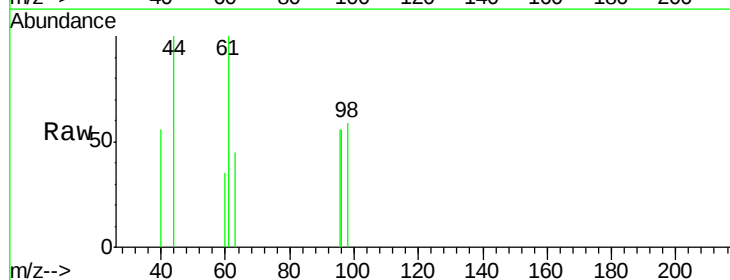
Tot Ion: 59 Resp: 148
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.0 13.4#

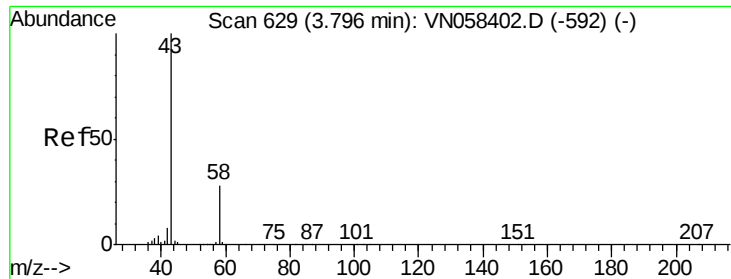


#12

1,1-Dichloroethene
 Concen: 0.206 ug/l
 RT: 3.72 min Scan# 604
 Delta R.T. 0.00 min
 Lab File: VN058438.D
 Acq: 30 Sep 2019 16:17

Tgt Ion: 96 Resp: 829
 Ion Ratio Lower Upper
 96 100
 61 65.7 146.7 220.1#
 98 53.1 51.3 76.9





#16

Acetone

Concen: 6.023 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN058438.D

Acq: 30 Sep 2019 16:17

Instrument :

MSVOA_N

ClientSampleId :

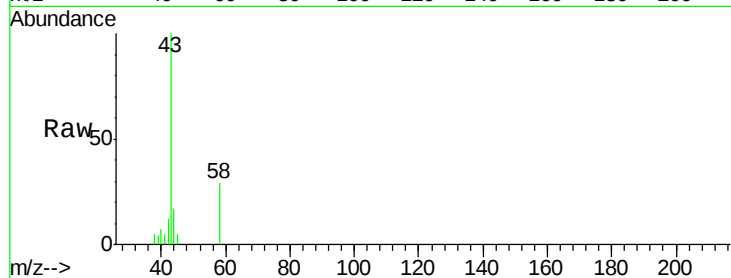
SA-PZ144I-20190925

Tot Ion: 43 Resp: 12771

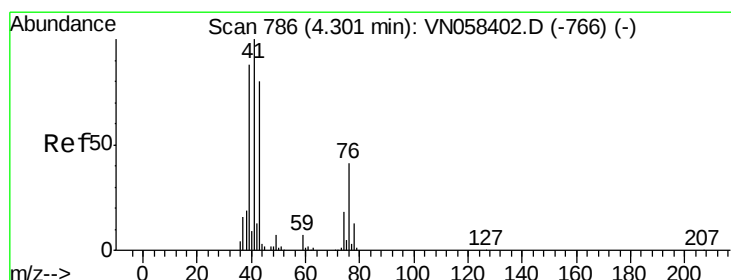
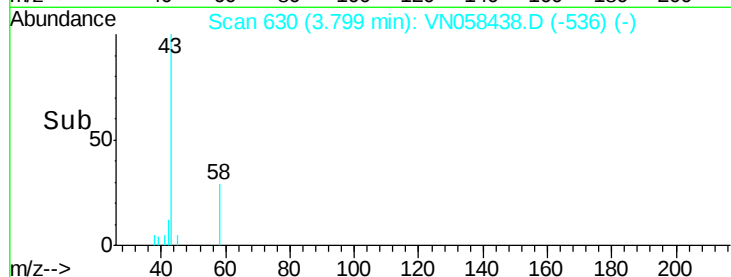
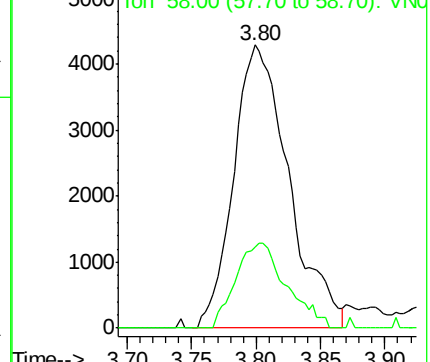
Ion Ratio Lower Upper

43 100

58 28.7 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VN058402.D (-592) (-)



#18

Methyl Acetate

Concen: 0.216 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.02 min

Lab File: VN058438.D

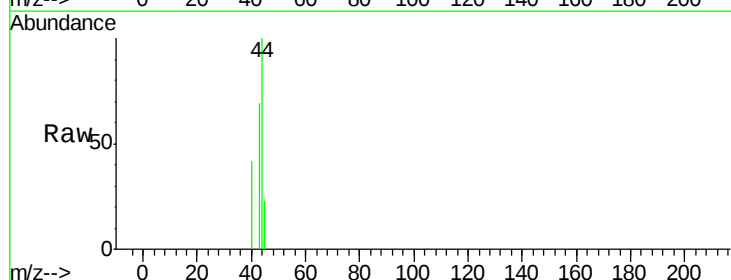
Acq: 30 Sep 2019 16:17

Tgt Ion: 43 Resp: 1150

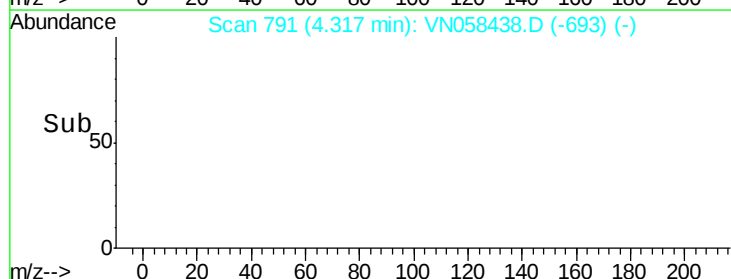
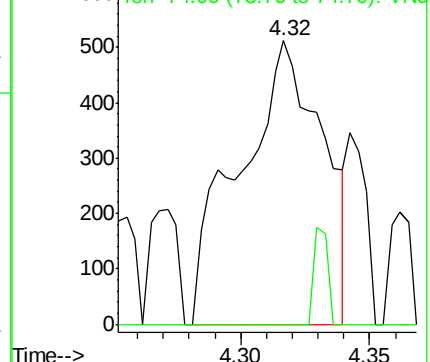
Ion Ratio Lower Upper

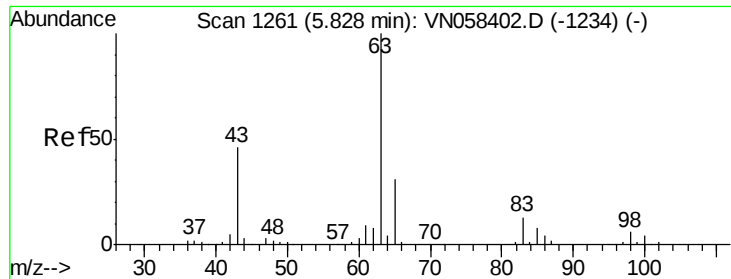
43 100

74 5.7 18.0 27.0#



Abundance Ion 43.00 (42.70 to 43.70): VN058402.D (-766) (-)





#24

1,1-Dichloroethane

Concen: 1.319 ug/l

RT: 5.83 min Scan# 1262

Delta R.T. 0.00 min

Lab File: VN058438.D

Acq: 30 Sep 2019 16:17

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ144I-20190925

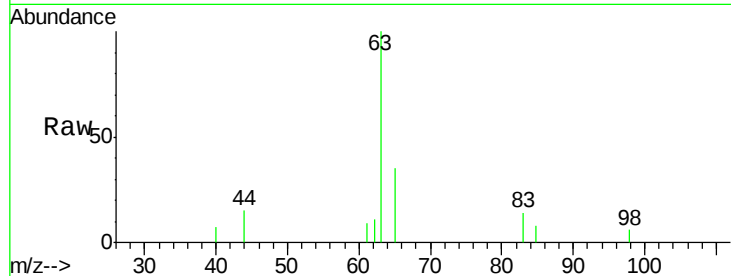
Tot Ion: 63 Resp: 11669

Ion Ratio Lower Upper

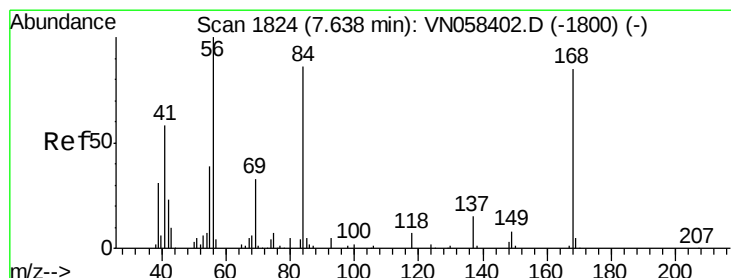
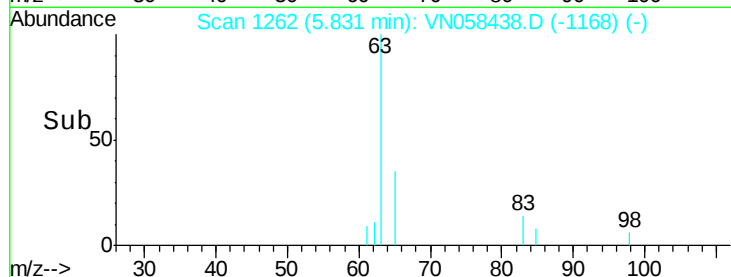
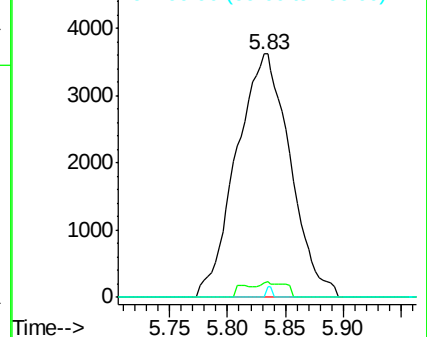
63 100

98 5.9 3.0 9.0

100 0.0 2.0 5.8#



Abundance Ion 62.90 (62.60 to 63.60): VN0
Ion 97.90 (97.60 to 98.60): VN0
Ion 99.90 (99.60 to 100.60): VN0



#31

Cyclohexane

Concen: 1.207 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN058438.D

Acq: 30 Sep 2019 16:17

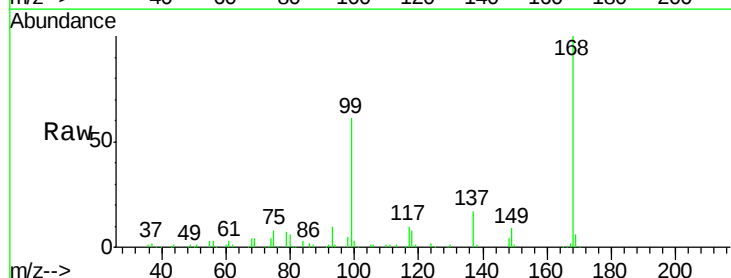
Tgt Ion: 56 Resp: 10389

Ion Ratio Lower Upper

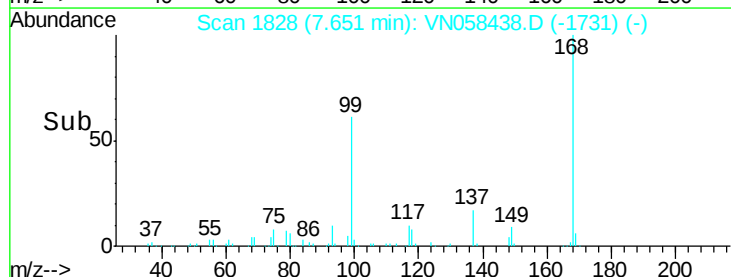
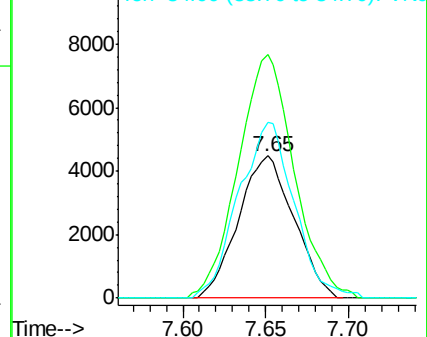
56 100

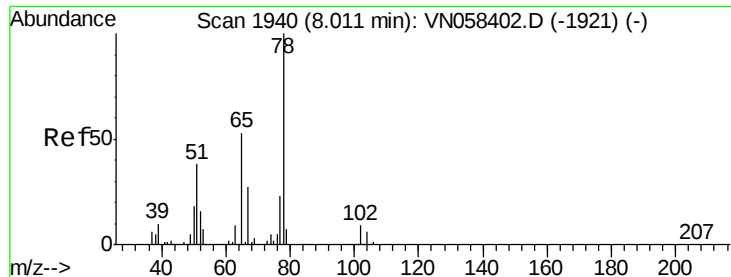
69 167.5 26.2 39.4#

84 123.2 67.6 101.4#



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: 49.723 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058438.D

Acq: 30 Sep 2019 16:17

Instrument :

MSVOA_N

ClientSampleId :

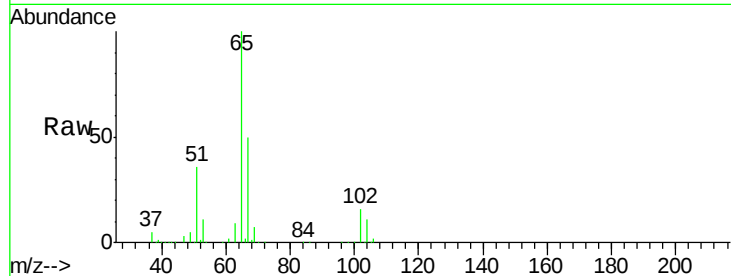
SA-PZ144I-20190925

Tot Ion: 65 Resp: 309295

Ion Ratio Lower Upper

65 100

67 50.8 0.0 102.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.01

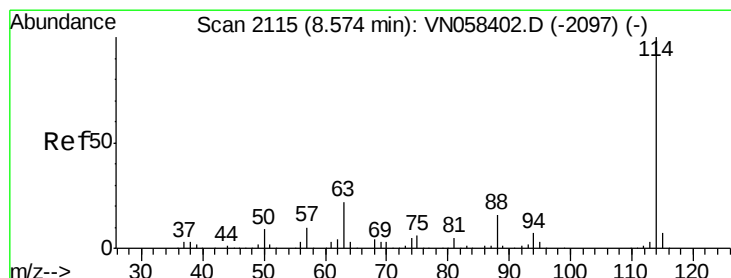
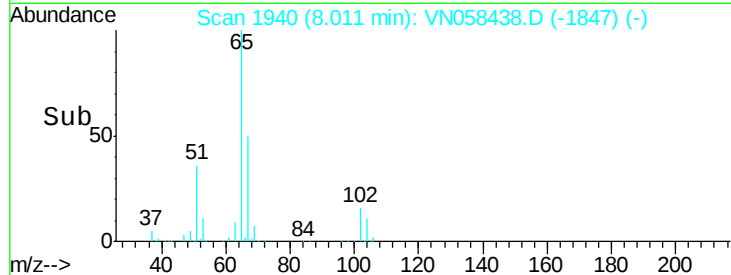
150000

100000

50000

0

Time--> 7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN058438.D

Acq: 30 Sep 2019 16:17

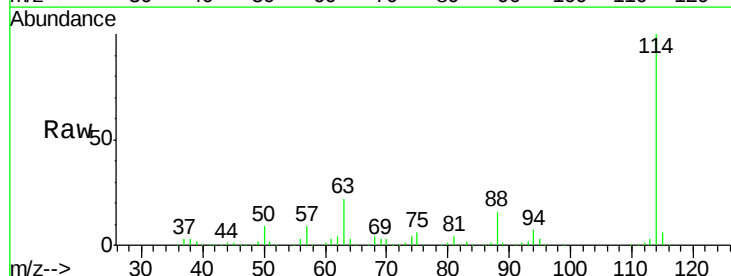
Tgt Ion:114 Resp: 695113

Ion Ratio Lower Upper

114 100

63 22.5 0.0 45.0

88 15.7 0.0 32.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

8.57

400000

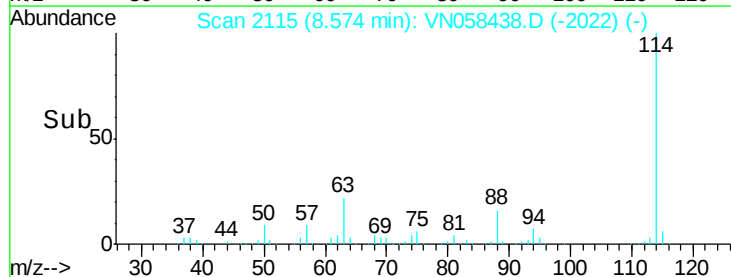
300000

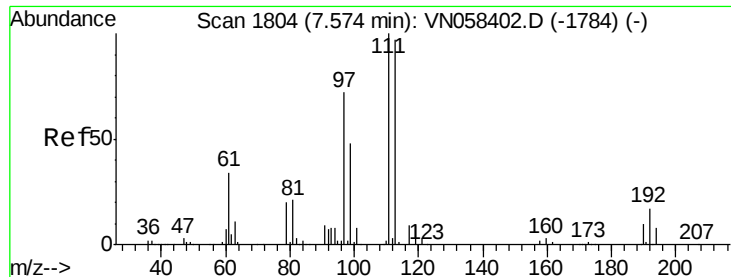
200000

100000

0

Time--> 8.50 8.60 8.70

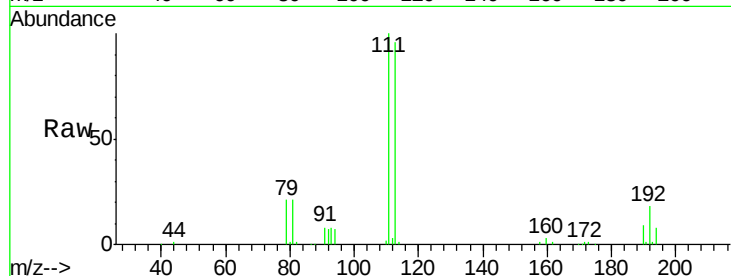




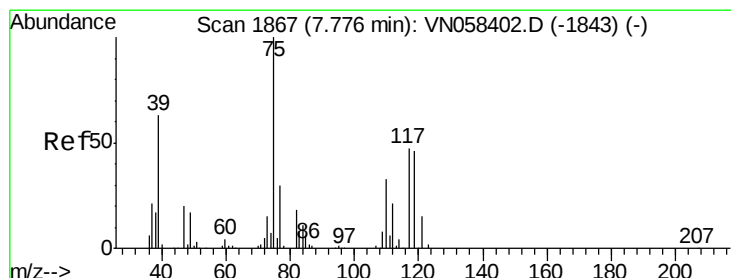
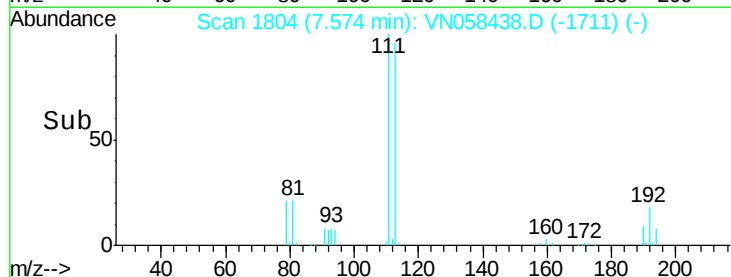
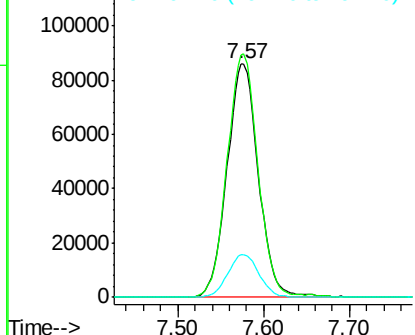
#35
 Dibromofluoromethane
 Concen: 51.027 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058438.D
 Acq: 30 Sep 2019 16:17

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-PZ144I-20190925

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.5	83.4	125.2
192	18.4	14.9	22.3

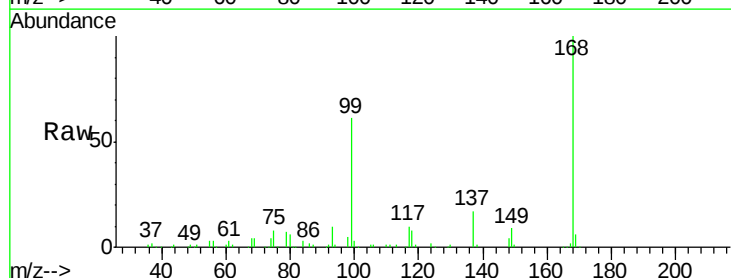


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

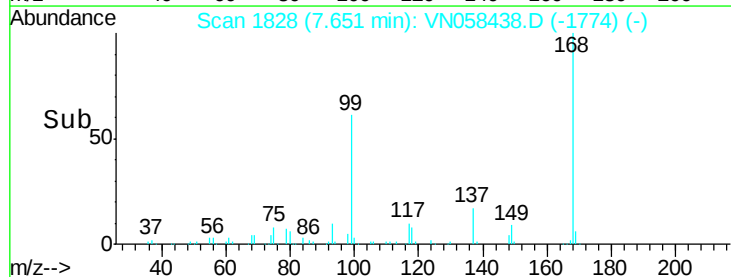
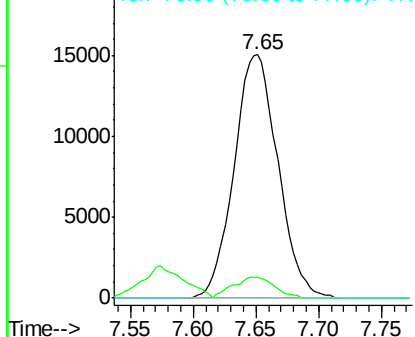


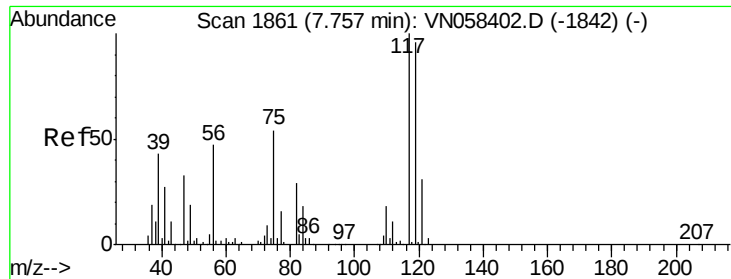
#36
 1,1-Dichloropropene
 Concen: 5.499 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058438.D
 Acq: 30 Sep 2019 16:17

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.2	16.4	49.2#
77	0.0	24.3	36.5#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 7.110 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058438.D

Acq: 30 Sep 2019 16:17

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ144I-20190925

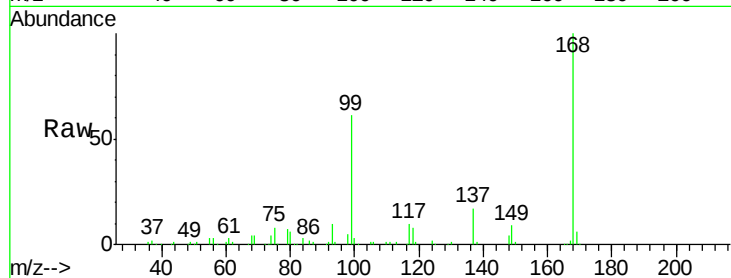
Tot Ion:117 Resp: 42659

Ion Ratio Lower Upper

117 100

119 5.6 76.6 115.0#

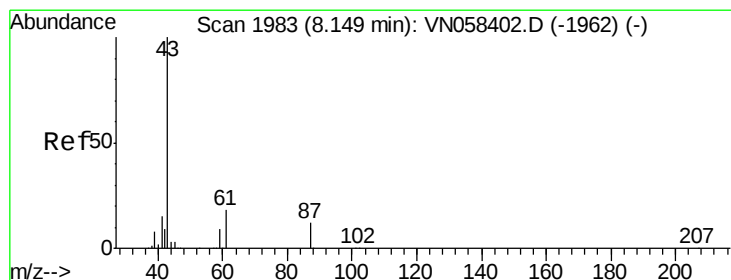
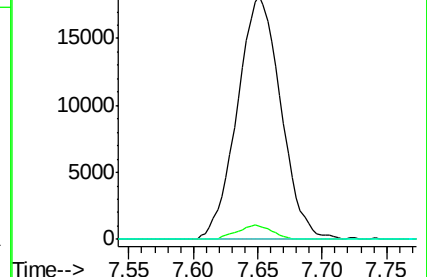
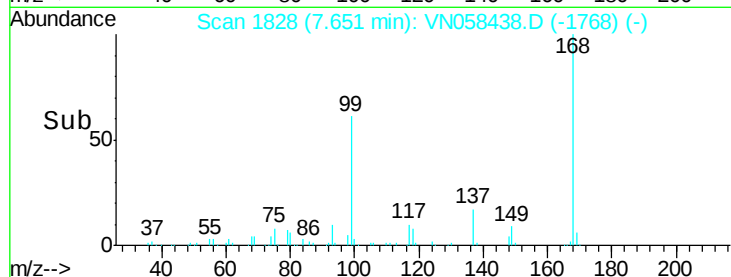
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 0.325 ug/l

RT: 8.22 min Scan# 2005

Delta R.T. 0.07 min

Lab File: VN058438.D

Acq: 30 Sep 2019 16:17

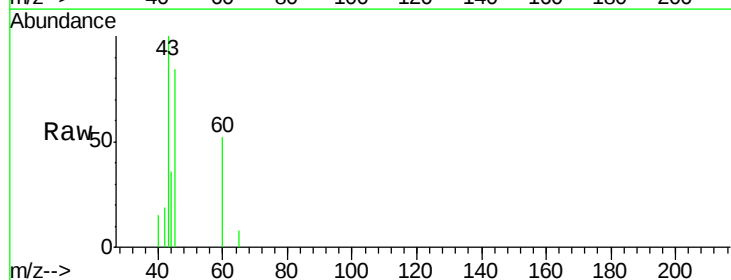
Tgt Ion: 43 Resp: 3447

Ion Ratio Lower Upper

43 100

61 0.0 14.8 22.2#

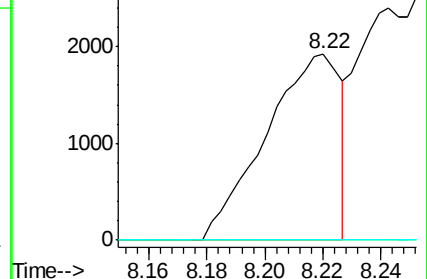
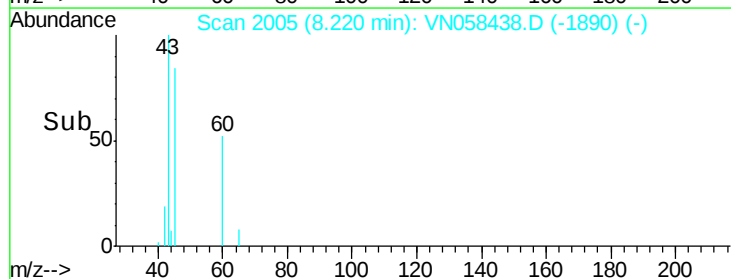
87 0.0 9.7 14.5#

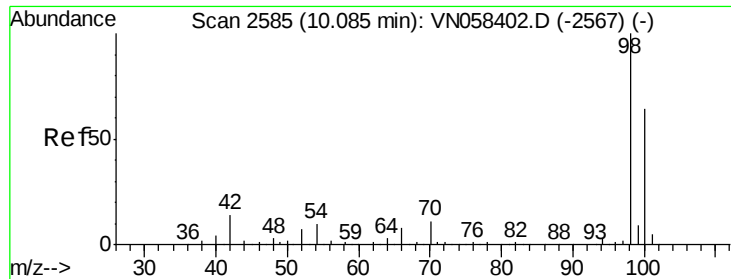


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#50

Toluene-d8

Concen: 51.822 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058438.D

Acq: 30 Sep 2019 16:17

Instrument :

MSVOA_N

ClientSampleId :

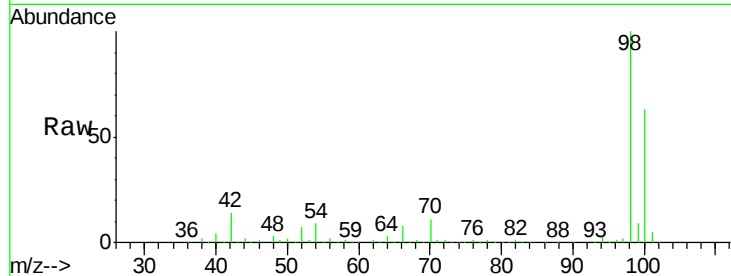
SA-PZ144I-20190925

Tot Ion: 98 Resp: 864864

Ion Ratio Lower Upper

98 100

100 62.6 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

500000

400000

300000

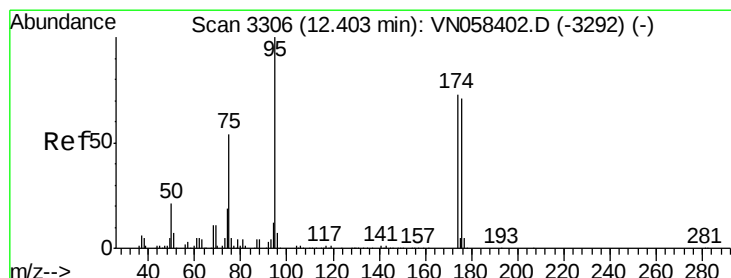
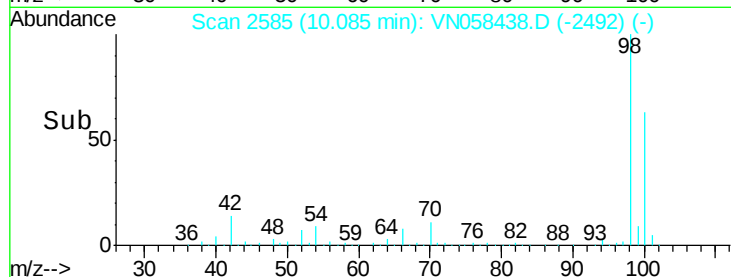
200000

100000

0

Time-->

10.00 10.10 10.20



#62

4-Bromofluorobenzene

Concen: 44.670 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058438.D

Acq: 30 Sep 2019 16:17

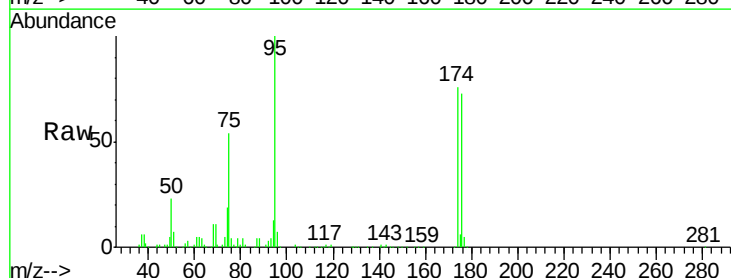
Tgt Ion: 95 Resp: 269565

Ion Ratio Lower Upper

95 100

174 76.9 0.0 150.6

176 73.3 0.0 146.2



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

200000

150000

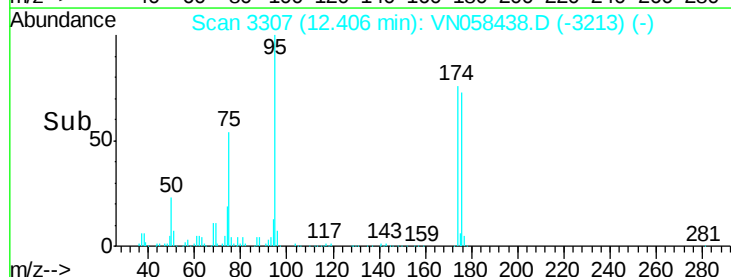
100000

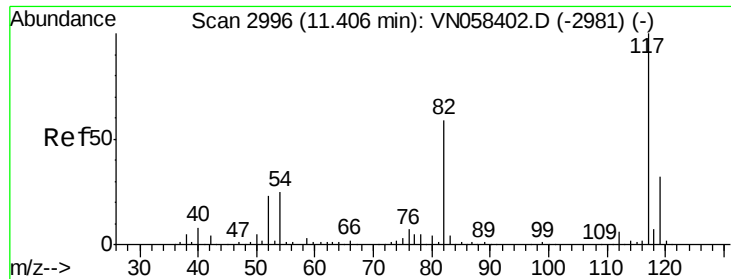
50000

0

Time-->

12.30 12.40 12.50

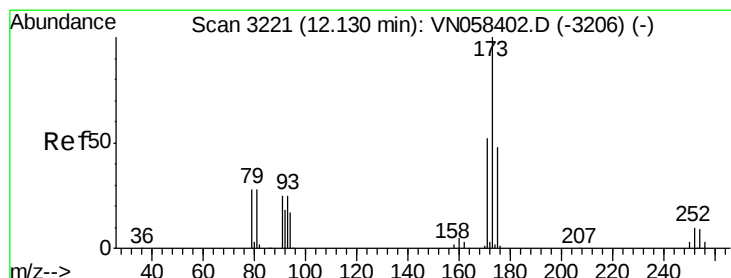
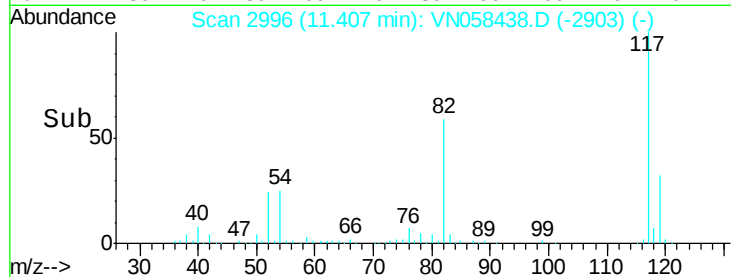
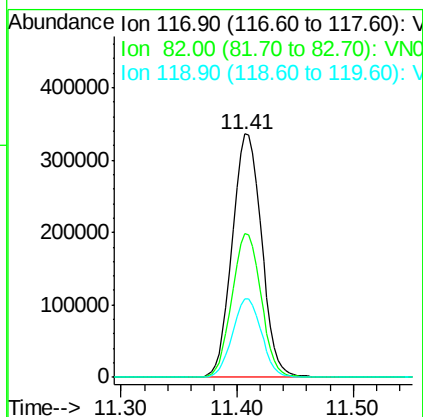
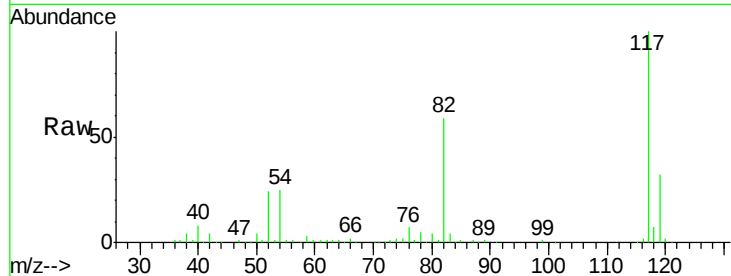




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058438.D
Acq: 30 Sep 2019 16:17

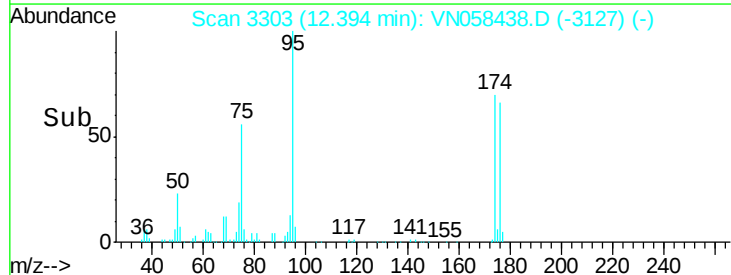
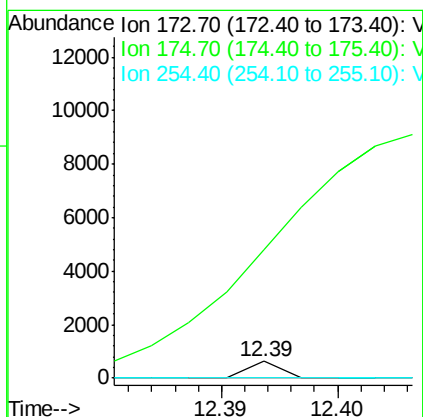
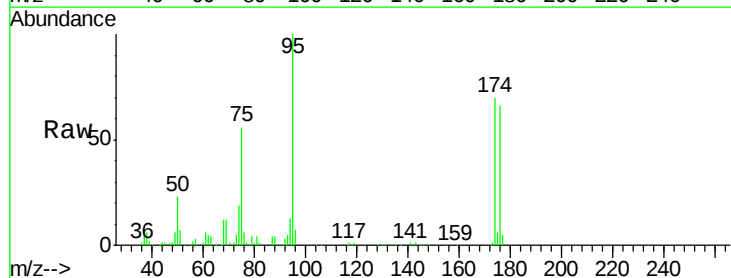
Instrument :
MSVOA_N
ClientSampleId :
SA-PZ144I-20190925

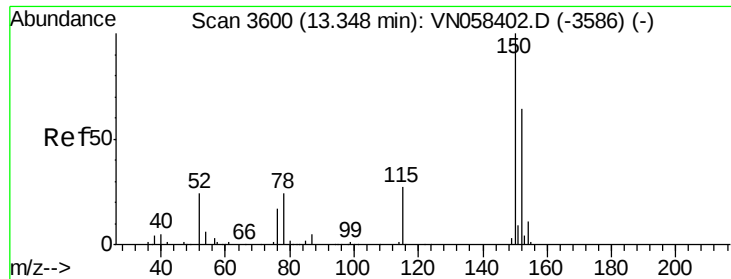
Tot Ion:117 Resp: 589831
Ion Ratio Lower Upper
117 100
82 59.1 47.4 71.0
119 32.4 25.5 38.3



#71
Bromoform
Concen: 0.739 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.26 min
Lab File: VN058438.D
Acq: 30 Sep 2019 16:17

Tgt Ion:173 Resp: 122
Ion Ratio Lower Upper
173 100
175 10460.7 24.3 73.0#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN058438.D

Acq: 30 Sep 2019 16:17

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ144I-20190925

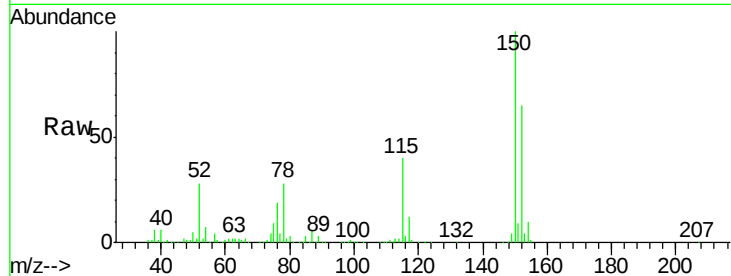
Tot Ion:152 Resp: 228285

Ion Ratio Lower Upper

152 100

115 60.8 30.0 90.0

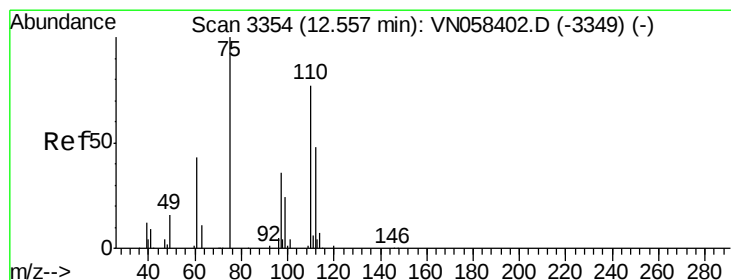
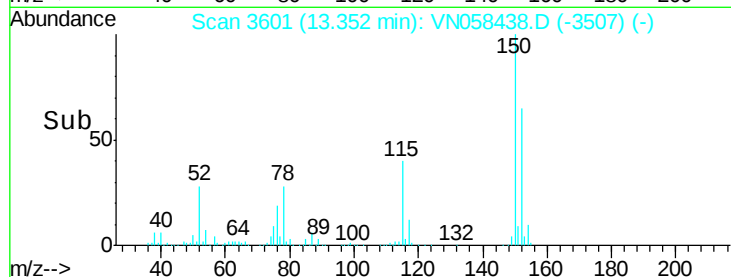
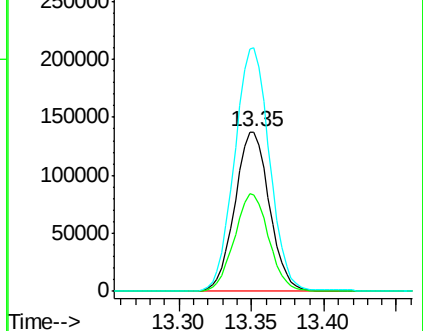
150 154.9 0.0 348.2



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



#76

1,2,3-Trichloropropane

Concen: 35.437 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058438.D

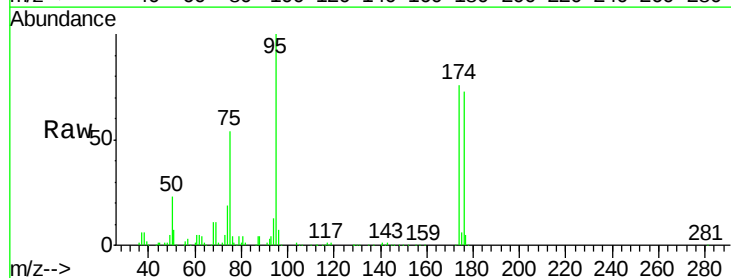
Acq: 30 Sep 2019 16:17

Tgt Ion: 75 Resp: 147761

Ion Ratio Lower Upper

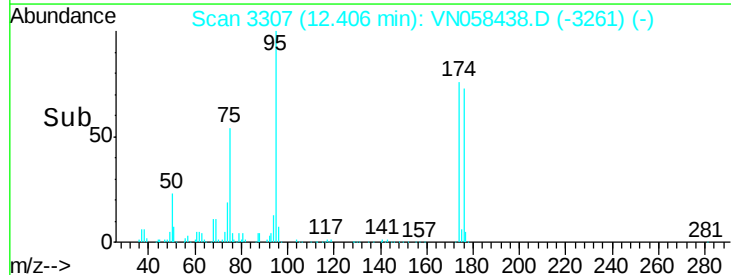
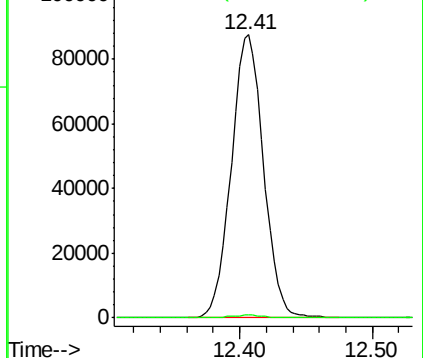
75 100

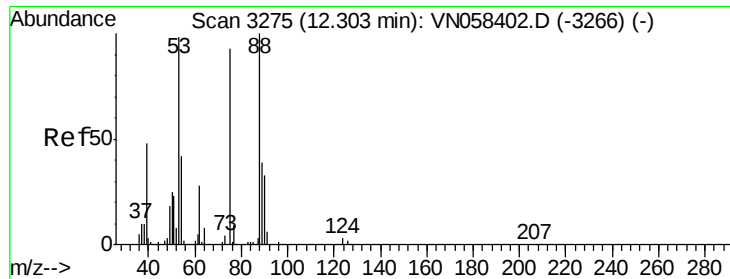
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

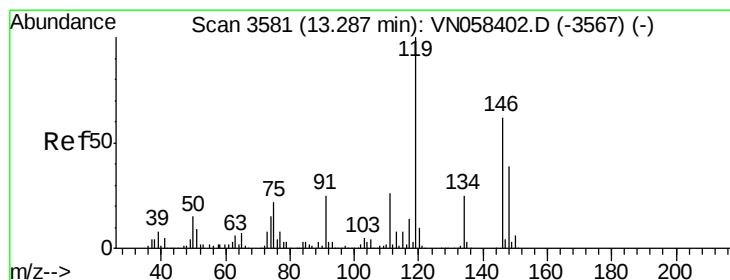
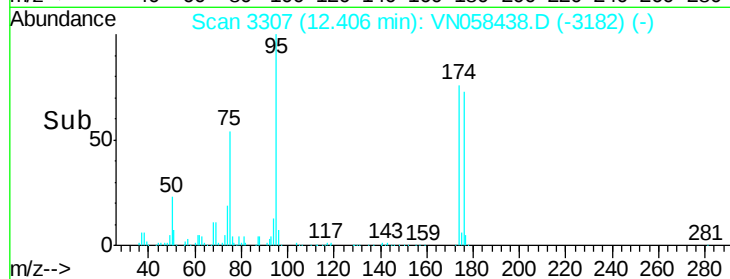
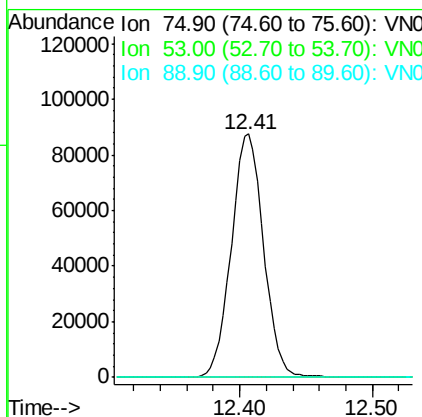
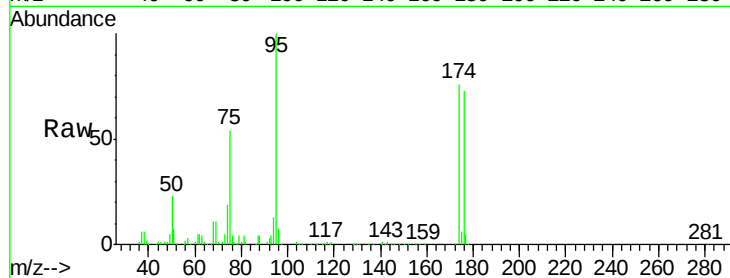




#81
 trans-1,4-Dichloro-2-butene
 Concen: 107.628 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.10 min
 Lab File: VN058438.D
 Acq: 30 Sep 2019 16:17

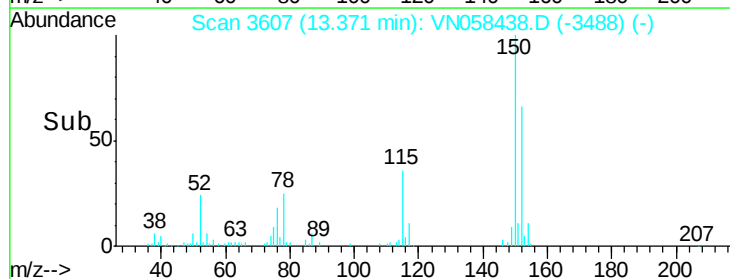
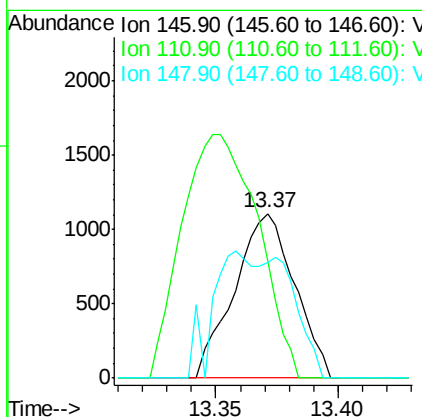
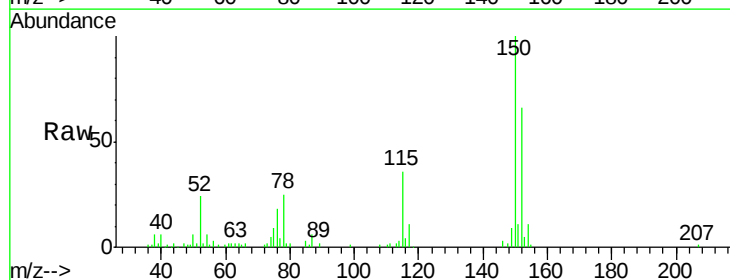
Instrument :
 MSVOA_N
 ClientSampleId :
 SA-PZ144I-20190925

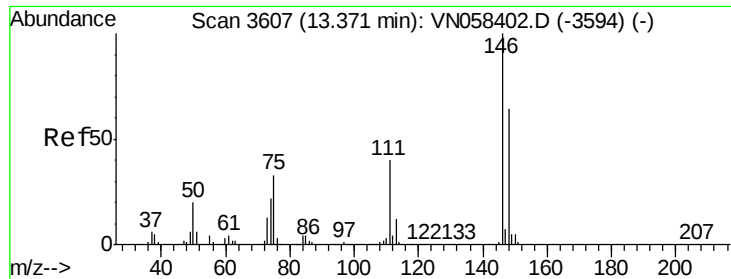
Tot Ion: 75 Resp: 147761
 Ion Ratio Lower Upper
 75 100
 53 0.0 85.4 128.0#
 89 0.0 35.0 52.4#



#87
 1,3-Dichlorobenzene
 Concen: 0.264 ug/l
 RT: 13.37 min Scan# 3607
 Delta R.T. 0.08 min
 Lab File: VN058438.D
 Acq: 30 Sep 2019 16:17

Tgt Ion: 146 Resp: 1892
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.8 62.4#
 148 0.0 31.4 94.3#





#88

1,4-Dichlorobenzene

Concen: 0.265 ug/l

RT: 13.37 min Scan# 3607

Delta R.T. 0.00 min

Lab File: VN058438.D

Acq: 30 Sep 2019 16:17

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ144I-20190925

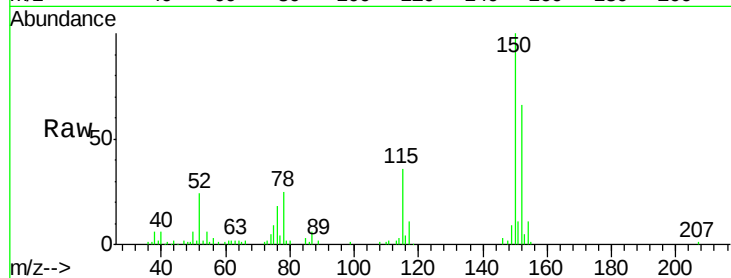
Tot Ion:146 Resp: 1892

Ion Ratio Lower Upper

146 100

111 0.0 20.5 61.6#

148 0.0 31.5 94.5#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

