

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060819\
 Data File : VN056111.D
 Acq On : 7 Jun 2019 20:35
 Operator : JC/SP
 Sample : K3203-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LF015MW001-190604

Quant Time: Jun 08 05:13:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	361331	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	547722	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	510272	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	169544	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	189199	52.74	ug/l	0.00
Spiked Amount			Recovery	=	105.48%	
35) Dibromofluoromethane	7.59	113	168355	50.10	ug/l	0.00
Spiked Amount			Recovery	=	100.20%	
50) Toluene-d8	10.09	98	685015	52.97	ug/l	0.00
Spiked Amount			Recovery	=	105.94%	
62) 4-Bromofluorobenzene	12.40	95	216422	49.21	ug/l	0.00
Spiked Amount			Recovery	=	98.42%	

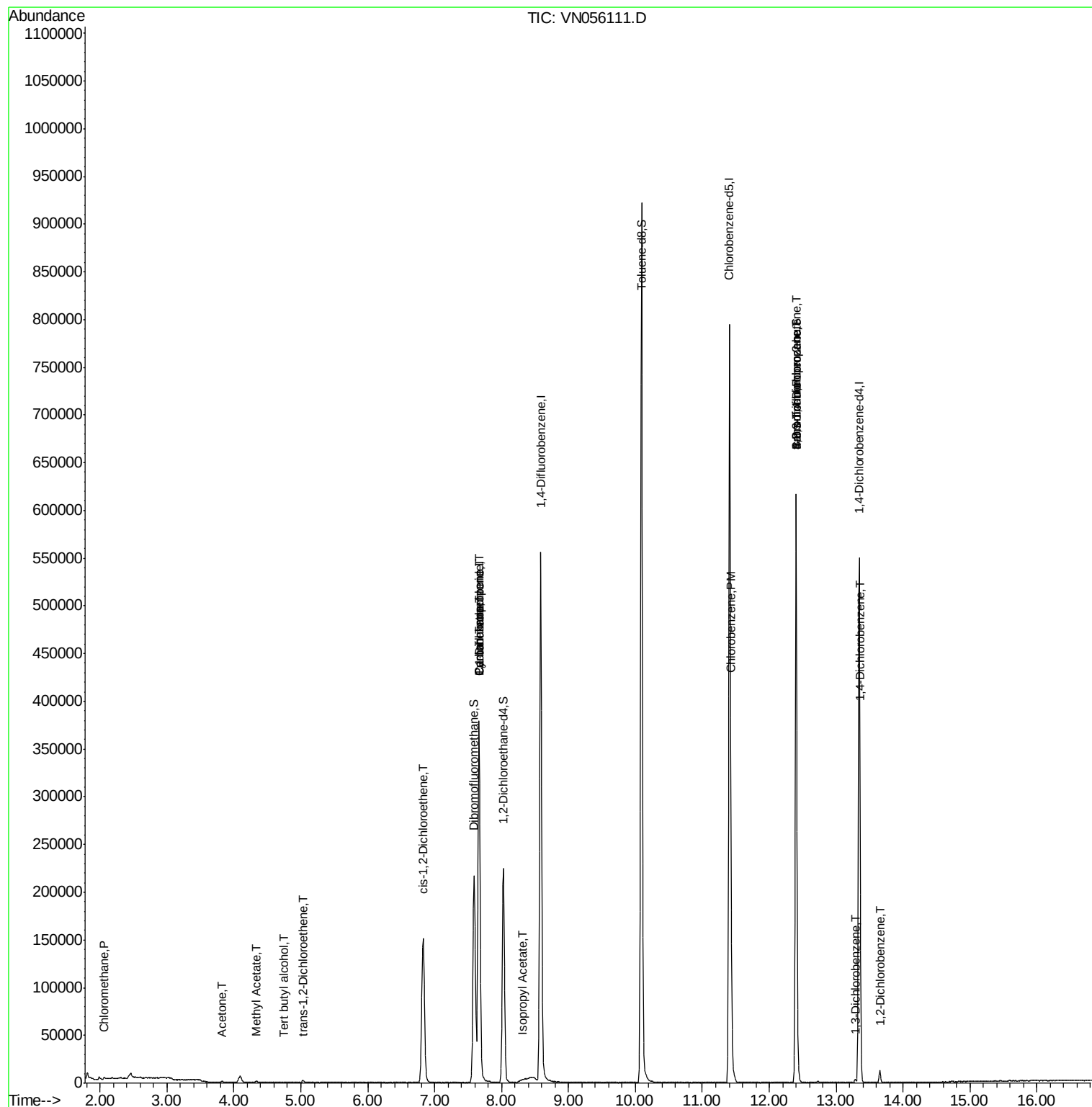
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	1983	0.506	ug/l	96
11) Tert butyl alcohol	4.74	59	378	0.605	ug/l #	74
16) Acetone	3.82	43	2138	1.246	ug/l	94
18) Methyl Acetate	4.34	43	2877	0.279	ug/l #	69
21) trans-1,2-Dichloroethene	5.04	96	1420	0.437	ug/l	82
27) cis-1,2-Dichloroethene	6.83	96	107891	28.241	ug/l	90
31) Cyclohexane	7.66	56	5003	0.879	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	20393	4.330	ug/l #	47
38) Carbon Tetrachloride	7.66	117	29070	6.695	ug/l #	15
43) Isopropyl Acetate	8.31	43	3380	0.498	ug/l #	53
65) Chlorobenzene	11.43	112	56635	5.577	ug/l	100
71) Bromoform	12.40	173	1442	3.205	ug/l #	1
73) Isopropylbenzene	12.40	105	129	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	99780	31.984	ug/l #	100
79) 2-Chlorotoluene	12.40	91	439	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	99780	106.513	ug/l #	15
87) 1,3-Dichlorobenzene	13.28	146	2147	0.382	ug/l	90
88) 1,4-Dichlorobenzene	13.36	146	19759	3.656	ug/l	94
91) 1,2-Dichlorobenzene	13.65	146	6381	1.125	ug/l	97

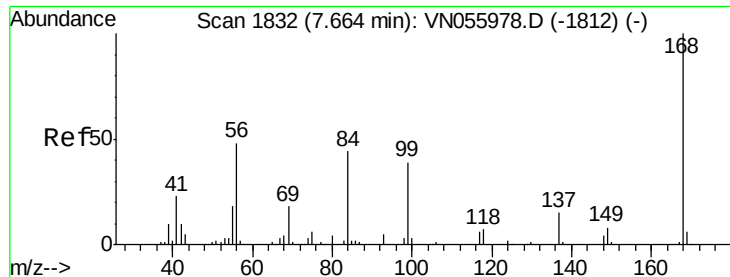
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN056111.D

Acq: 7 Jun 2019 20:35

Instrument :

MSVOA_N

ClientSampleId :

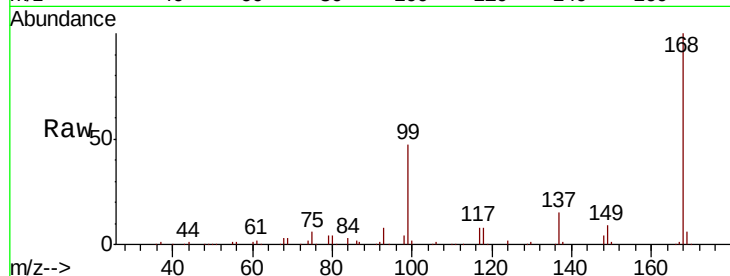
LF015MW001-190604

Tot Ion:168 Resp: 361331

Ion Ratio Lower Upper

168 100

99 46.5 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

150000

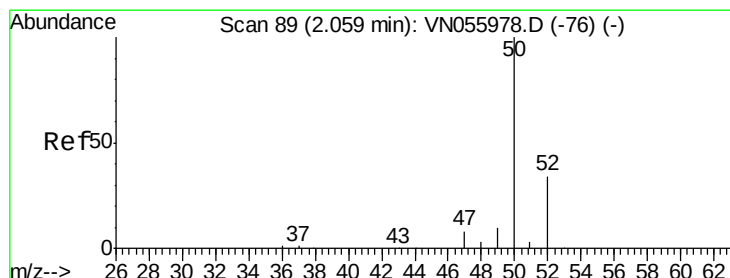
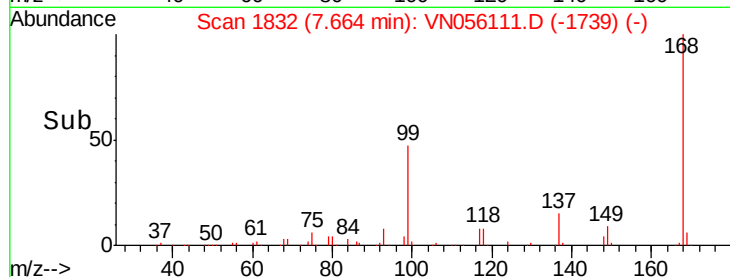
100000

50000

0

Time-->

7.60 7.70 7.80



#3

Chloromethane

Concen: 0.506 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN056111.D

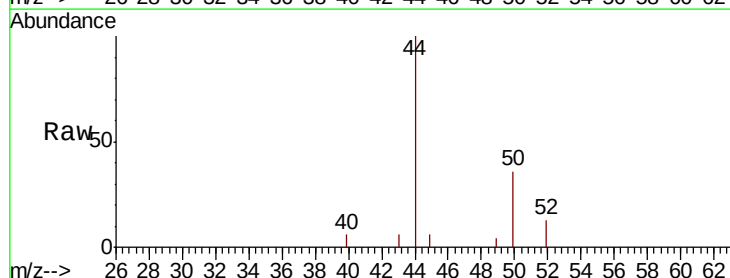
Acq: 7 Jun 2019 20:35

Tgt Ion: 50 Resp: 1983

Ion Ratio Lower Upper

50 100

52 35.8 26.6 40.0



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.06

1500

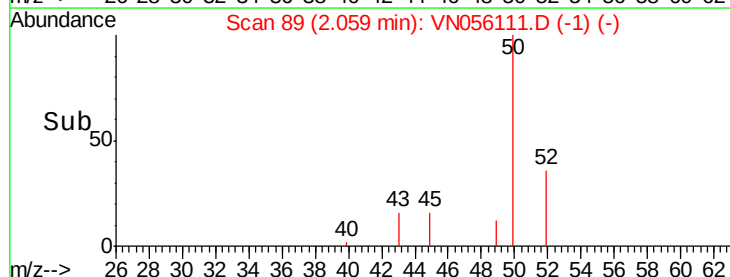
1000

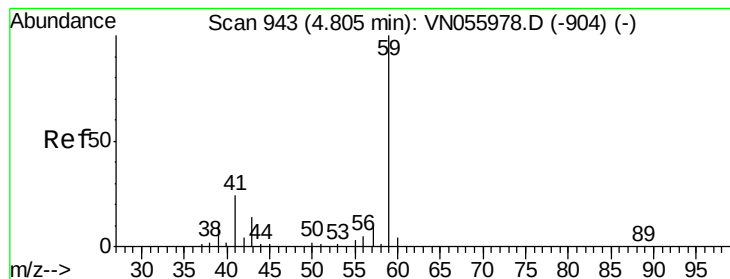
500

0

Time-->

2.05 2.10



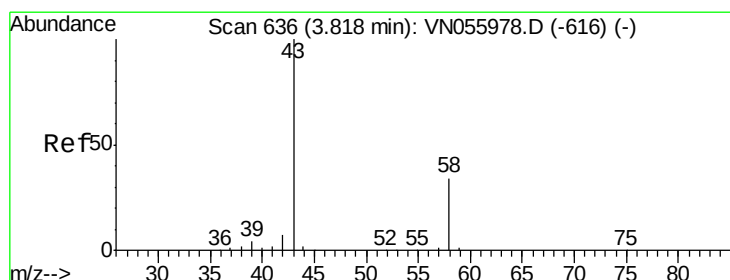
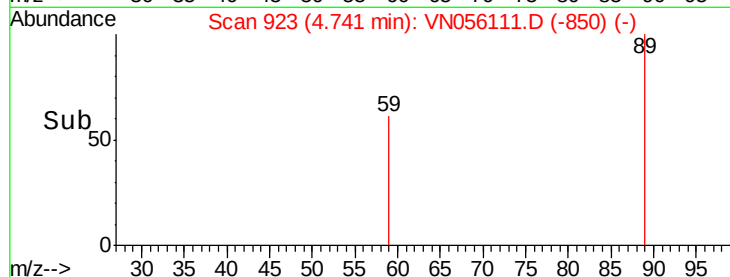
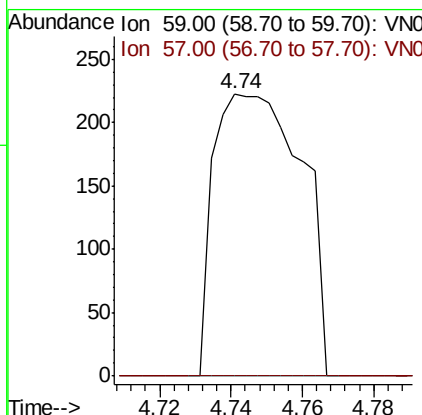
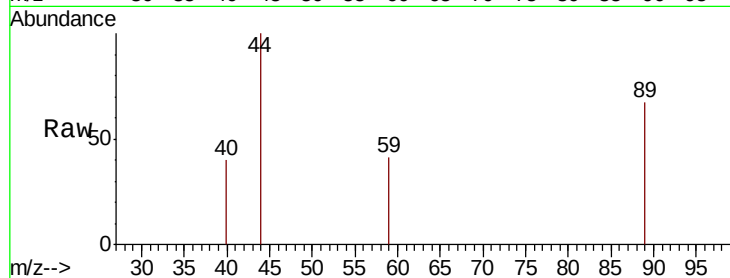


#11

Tert butyl alcohol
 Concen: 0.605 ug/l
 RT: 4.74 min Scan# 923
 Delta R.T. -0.06 min
 Lab File: VN056111.D
 Acq: 7 Jun 2019 20:35

Instrument :
 MSVOA_N
 ClientSampleId :
 LF015MW001-190604

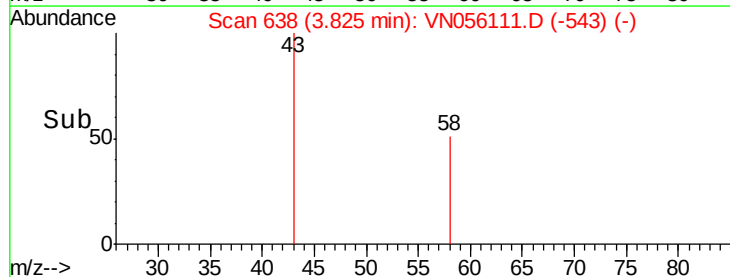
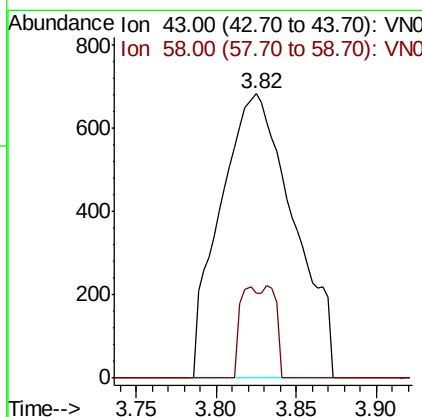
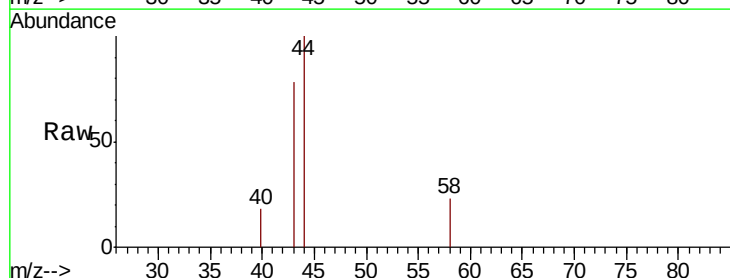
Tot Ion: 59 Resp: 378
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.6#

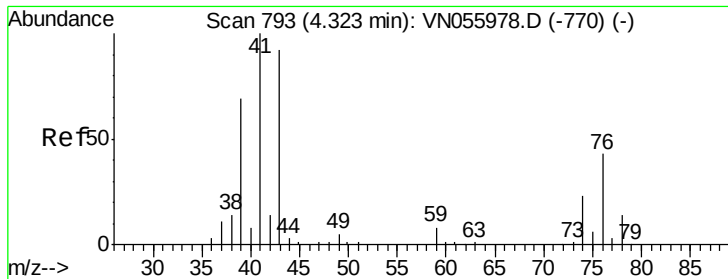


#16

Acetone
 Concen: 1.246 ug/l
 RT: 3.82 min Scan# 638
 Delta R.T. 0.01 min
 Lab File: VN056111.D
 Acq: 7 Jun 2019 20:35

Tgt Ion: 43 Resp: 2138
 Ion Ratio Lower Upper
 43 100
 58 29.6 26.6 39.8

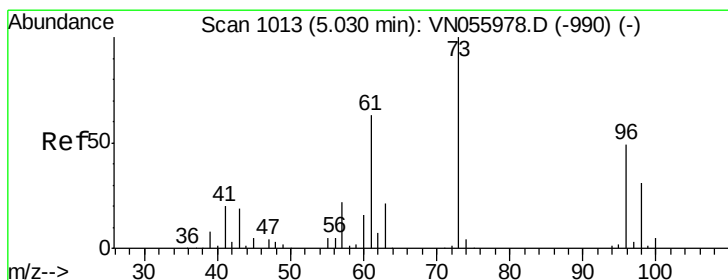
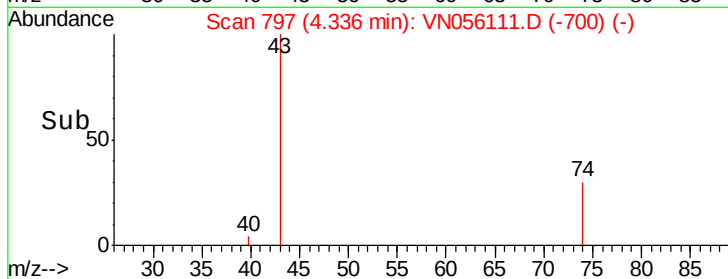
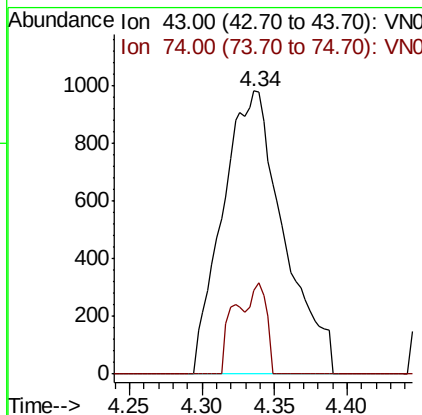
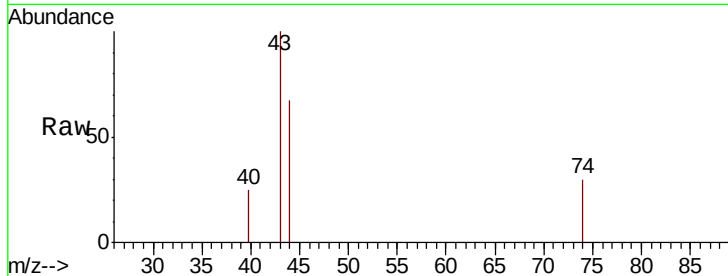




#18
Methvl Acetate
Concen: 0.279 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN056111.D
Acq: 7 Jun 2019 20:35

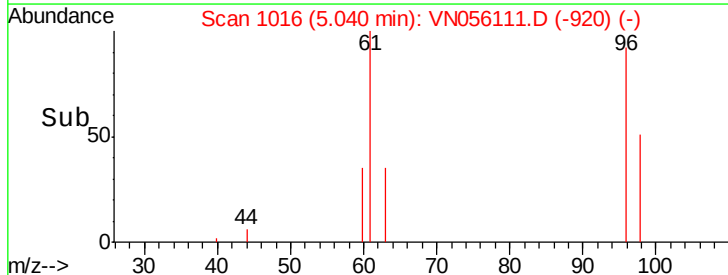
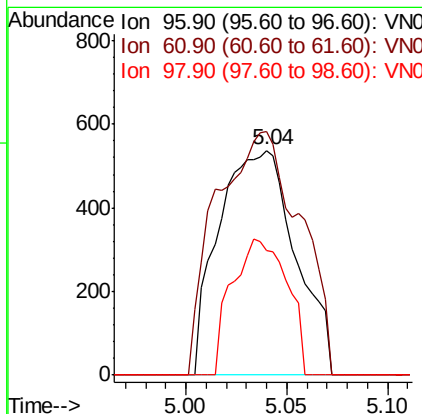
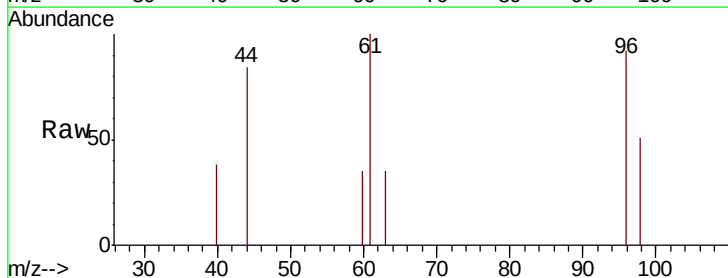
Instrument :
MSVOA_N
ClientSampleId :
LF015MW001-190604

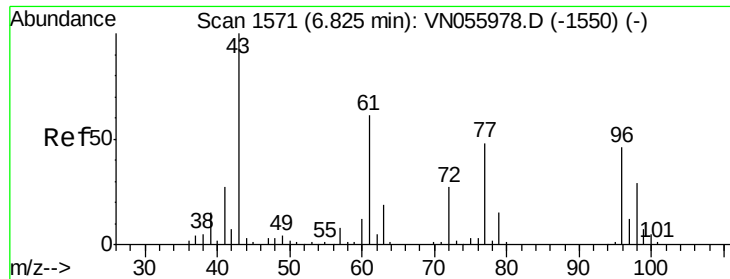
Tot Ion: 43 Resp: 2877
Ion Ratio Lower Upper
43 100
74 8.8 19.3 28.9#



#21
trans-1,2-Dichloroethene
Concen: 0.437 ug/l
RT: 5.04 min Scan# 1016
Delta R.T. 0.01 min
Lab File: VN056111.D
Acq: 7 Jun 2019 20:35

Tgt Ion: 96 Resp: 1420
Ion Ratio Lower Upper
96 100
61 108.4 107.8 161.8
98 55.7 49.8 74.8





#27

cis-1,2-Dichloroethene

Concen: 28.241 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.01 min

Lab File: VN056111.D

Acq: 7 Jun 2019 20:35

Instrument :

MSVOA_N

ClientSampleId :

LF015MW001-190604

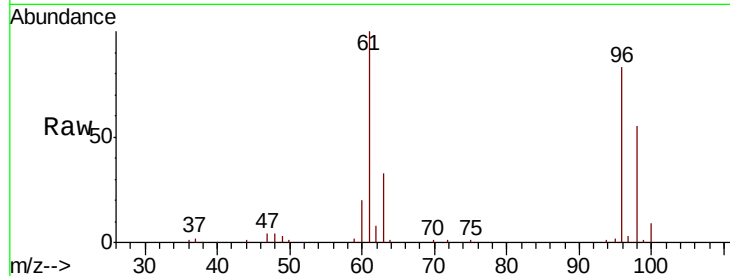
Tot Ion: 96 Resp: 107891

Ion Ratio Lower Upper

96 100

61 120.1 0.0 275.8

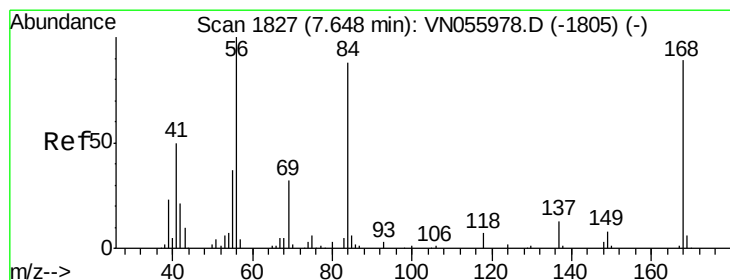
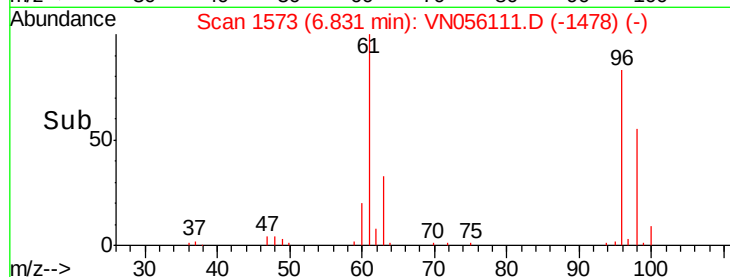
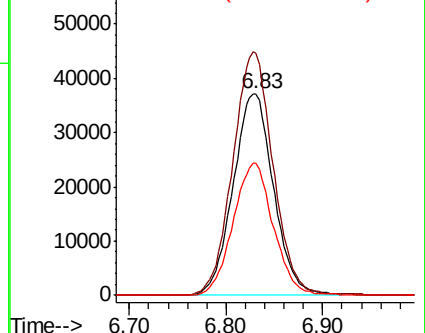
98 65.1 0.0 128.4



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#31

Cyclohexane

Concen: 0.879 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN056111.D

Acq: 7 Jun 2019 20:35

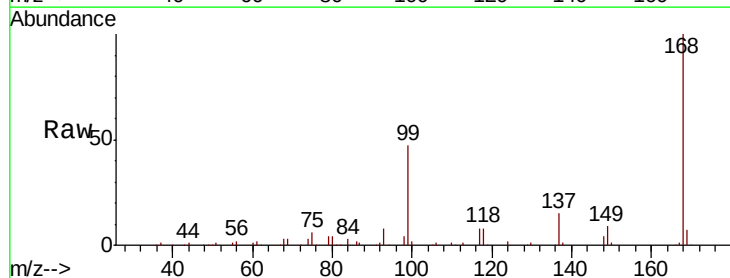
Tgt Ion: 56 Resp: 5003

Ion Ratio Lower Upper

56 100

69 187.6 25.6 38.4#

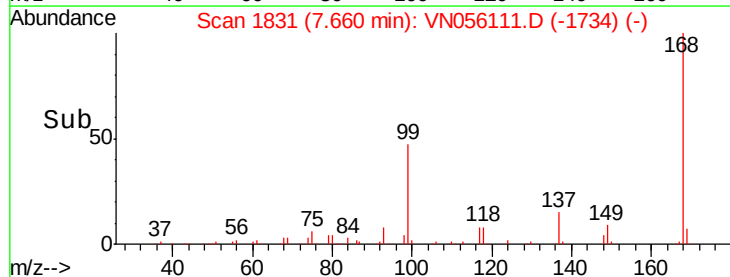
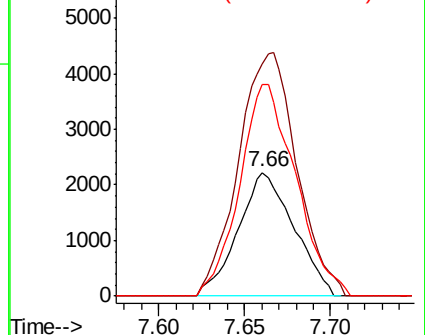
84 171.8 67.4 101.0#

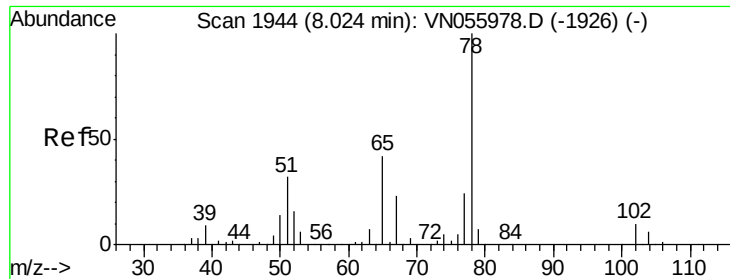


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

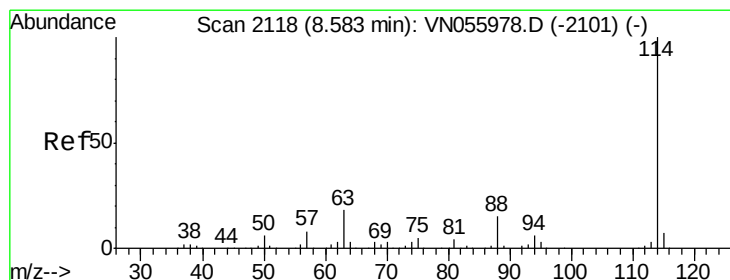
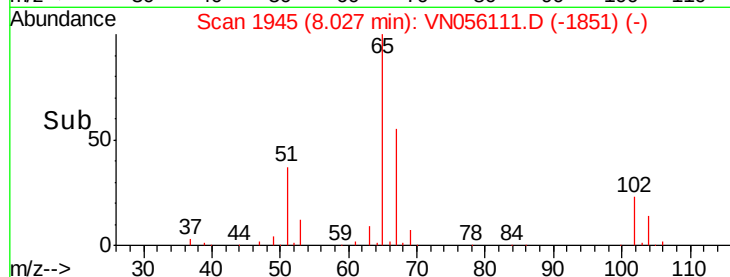
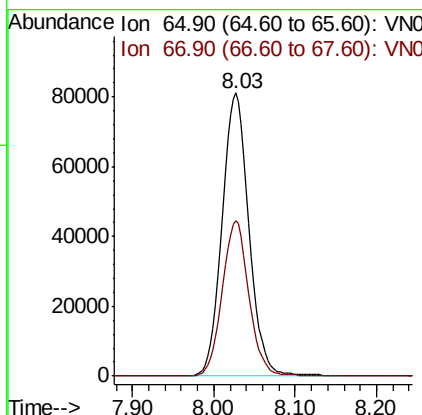
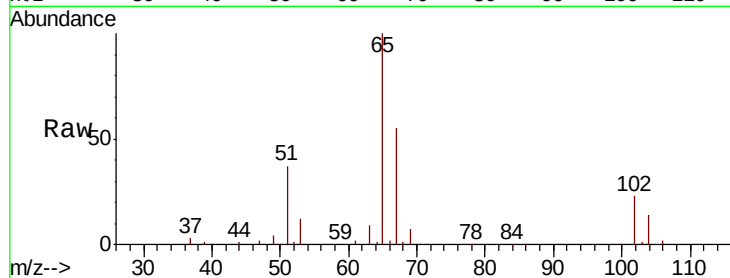




#33
 1,2-Dichloroethane-d4
 Concen: 52.735 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056111.D
 Acq: 7 Jun 2019 20:35

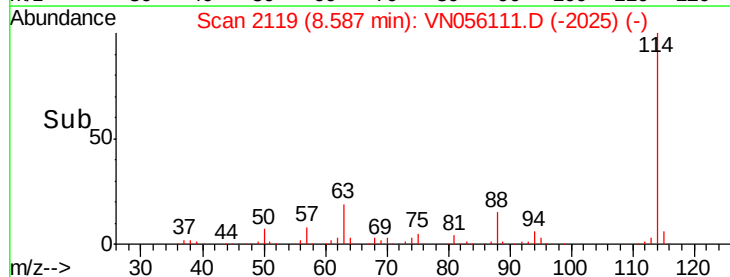
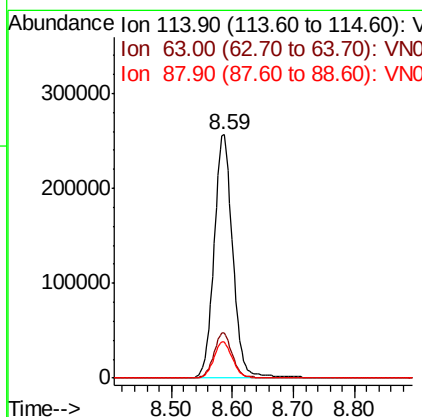
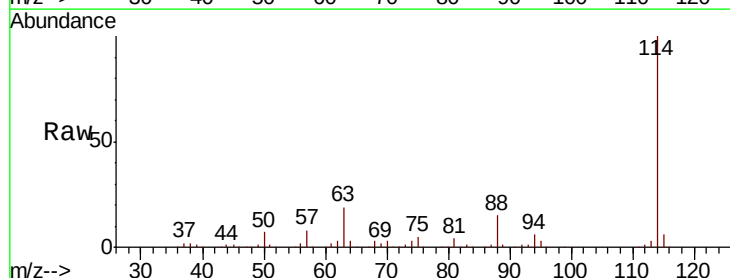
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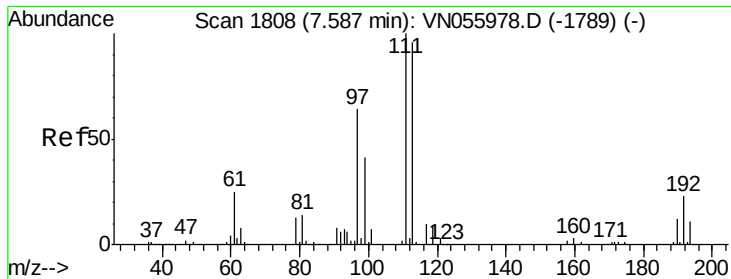
Tot Ion: 65 Resp: 189199
 Ion Ratio Lower Upper
 65 100
 67 54.4 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056111.D
 Acq: 7 Jun 2019 20:35

Tgt Ion: 114 Resp: 547722
 Ion Ratio Lower Upper
 114 100
 63 18.5 0.0 39.2
 88 14.9 0.0 31.0





#35

Dibromofluoromethane

Concen: 50.099 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN056111.D

Acq: 7 Jun 2019 20:35

Instrument :

MSVOA_N

ClientSampleId :

LF015MW001-190604

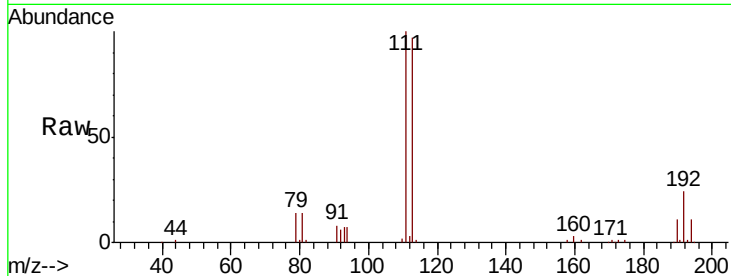
Tot Ion:113 Resp: 168355

Ion Ratio Lower Upper

113 100

111 102.6 81.9 122.9

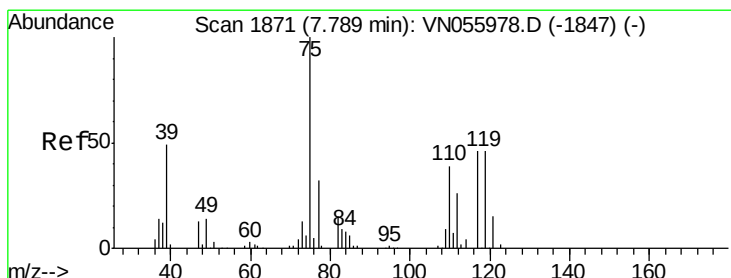
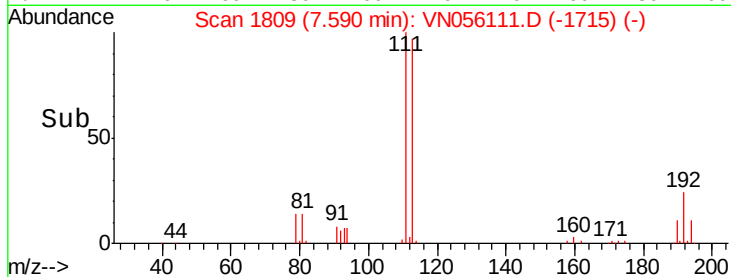
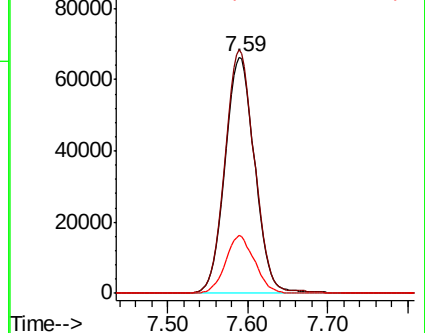
192 23.9 19.5 29.3



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.330 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN056111.D

Acq: 7 Jun 2019 20:35

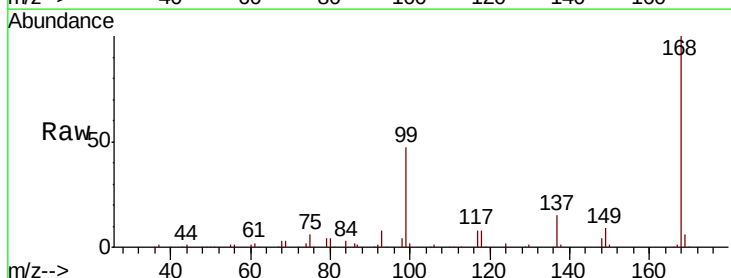
Tgt Ion: 75 Resp: 20393

Ion Ratio Lower Upper

75 100

110 7.9 19.0 57.0#

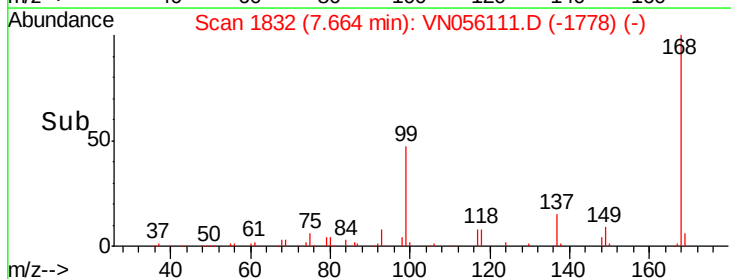
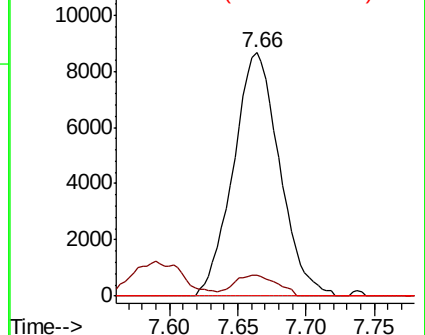
77 0.0 25.1 37.7#

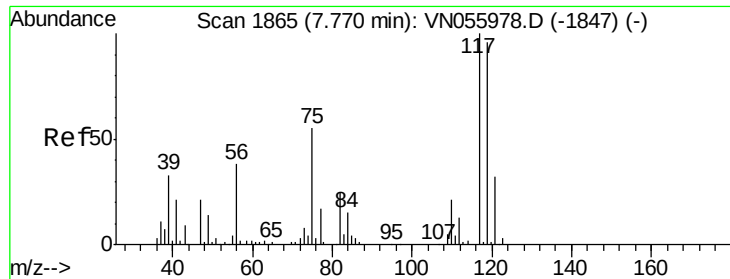


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VNO

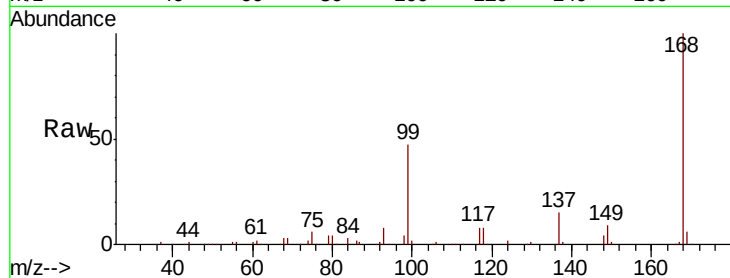




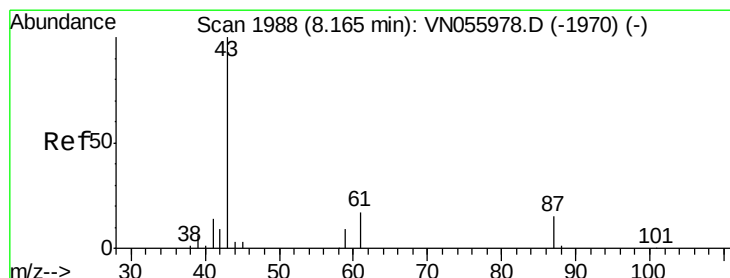
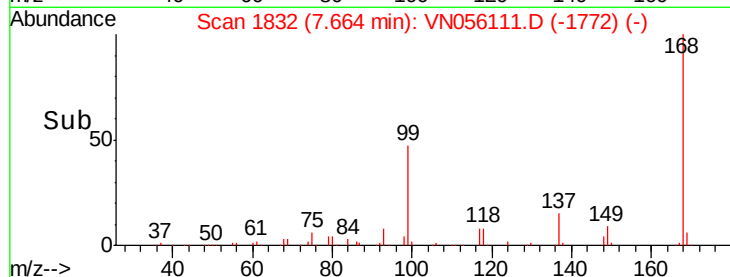
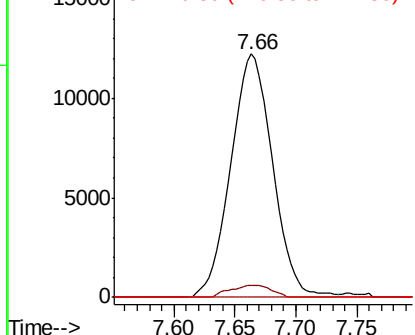
#38
Carbon Tetrachloride
Concen: 6.695 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN056111.D
Acq: 7 Jun 2019 20:35

Instrument :
MSVOA_N
ClientSampleId :
LF015MW001-190604

Tot Ion:117 Resp: 29070
Ion Ratio Lower Upper
117 100
119 5.1 79.0 118.6#
121 0.0 24.7 37.1#

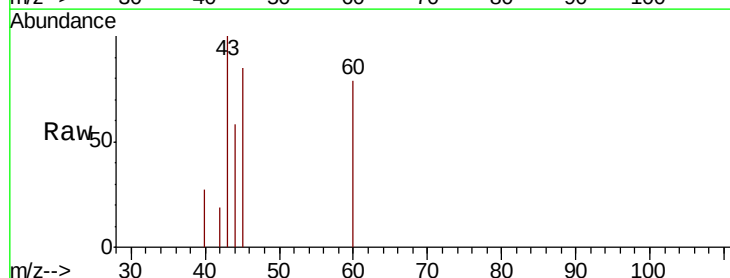


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

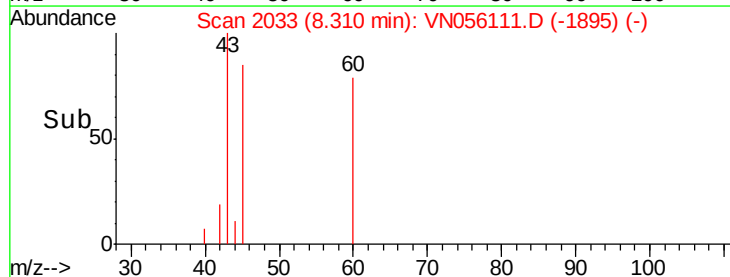
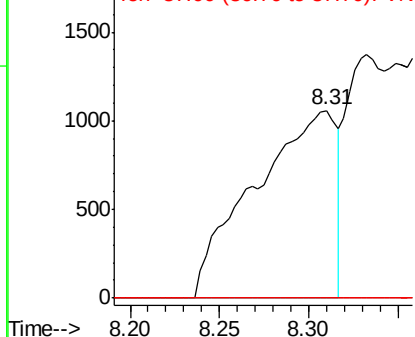


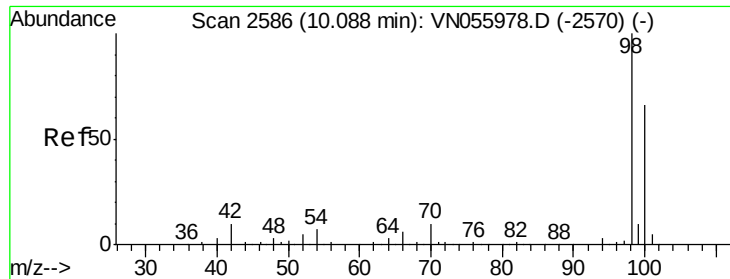
#43
Isopropyl Acetate
Concen: 0.498 ug/l
RT: 8.31 min Scan# 2033
Delta R.T. 0.14 min
Lab File: VN056111.D
Acq: 7 Jun 2019 20:35

Tgt Ion: 43 Resp: 3380
Ion Ratio Lower Upper
43 100
61 0.0 22.2 33.4#
87 0.0 11.4 17.2#



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





#50

Toluene-d8

Concen: 52.974 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056111.D

Acq: 7 Jun 2019 20:35

Instrument :

MSVOA_N

ClientSampleId :

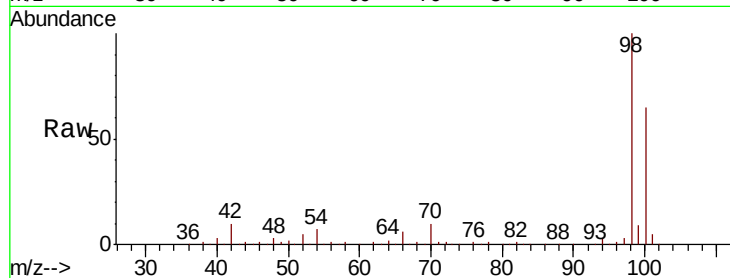
LF015MW001-190604

Tot Ion: 98 Resp: 685015

Ion Ratio Lower Upper

98 100

100 64.9 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

400000

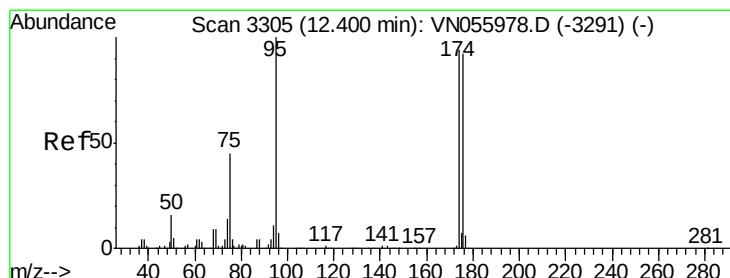
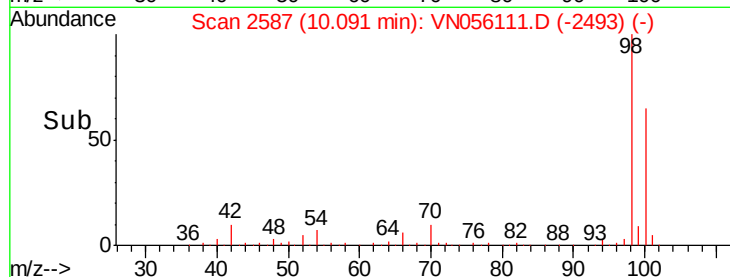
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 49.214 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN056111.D

Acq: 7 Jun 2019 20:35

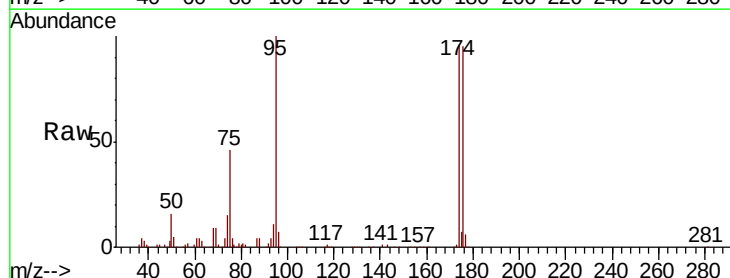
Tgt Ion: 95 Resp: 216422

Ion Ratio Lower Upper

95 100

174 95.8 0.0 191.0

176 93.4 0.0 185.2



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

12.40

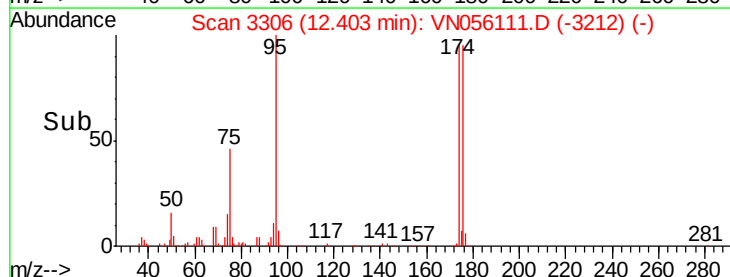
150000

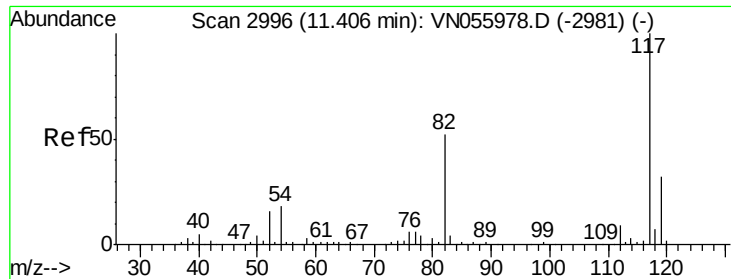
100000

50000

0

Time-->

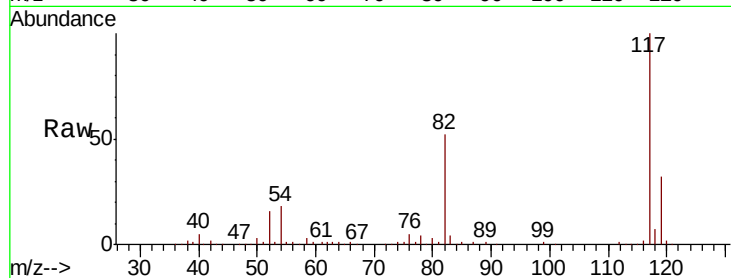




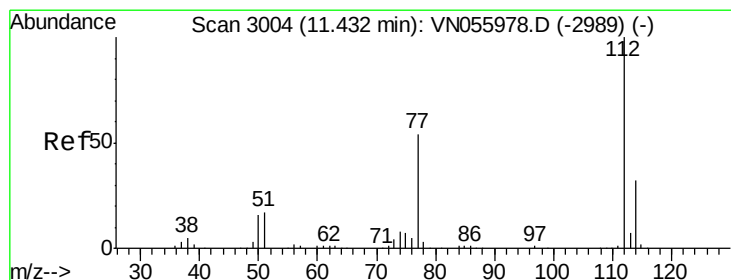
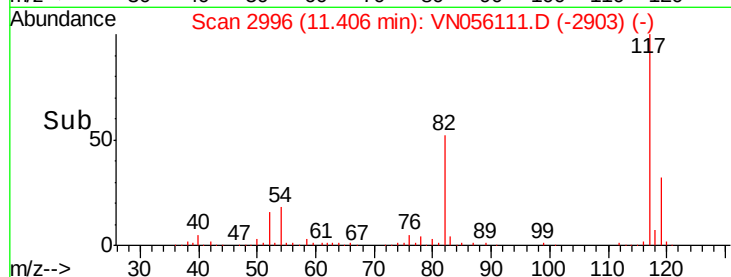
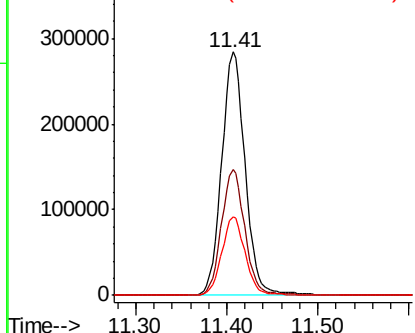
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056111.D
Acq: 7 Jun 2019 20:35

Instrument :
MSVOA_N
ClientSampleId :
LF015MW001-190604

Tot Ion:117 Resp: 510272
Ion Ratio Lower Upper
117 100
82 51.6 41.8 62.8
119 32.2 25.4 38.0

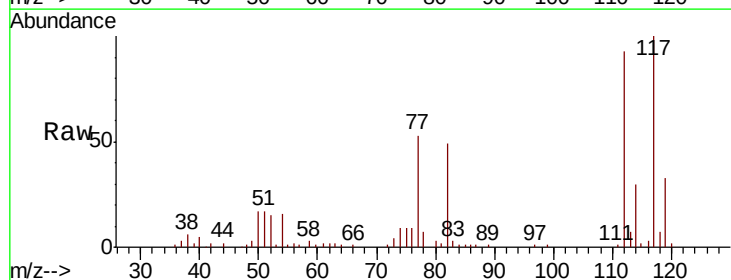


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

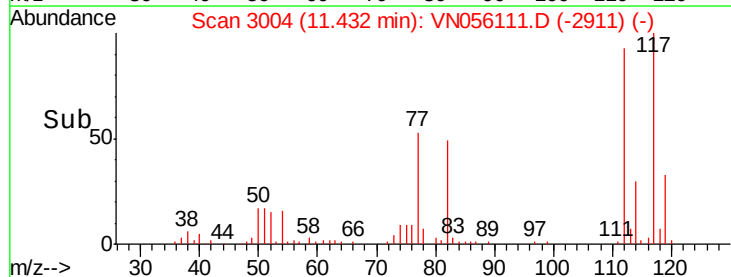
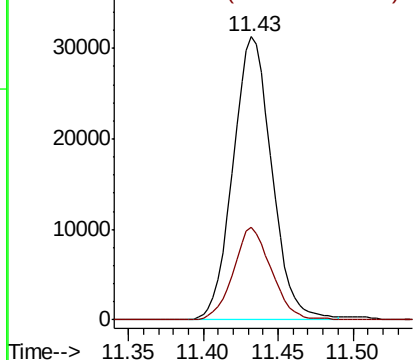


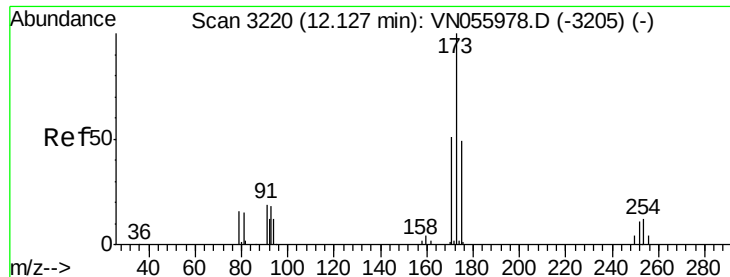
#65
Chlorobenzene
Concen: 5.577 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN056111.D
Acq: 7 Jun 2019 20:35

Tgt Ion:112 Resp: 56635
Ion Ratio Lower Upper
112 100
114 32.6 26.2 39.4



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#71

Bromoform

Concen: 3.205 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN056111.D

Acq: 7 Jun 2019 20:35

Instrument :

MSVOA_N

ClientSampleId :

LF015MW001-190604

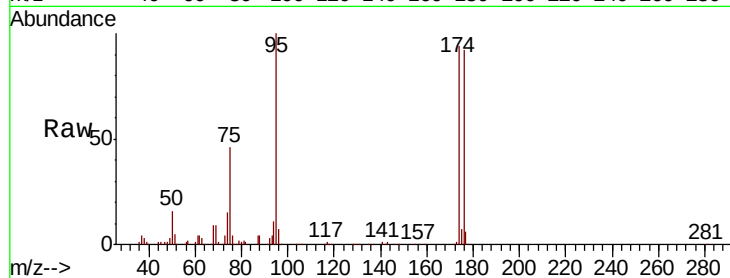
Tot Ion:173 Resp: 1442

Ion Ratio Lower Upper

173 100

175 879.1 24.3 72.8#

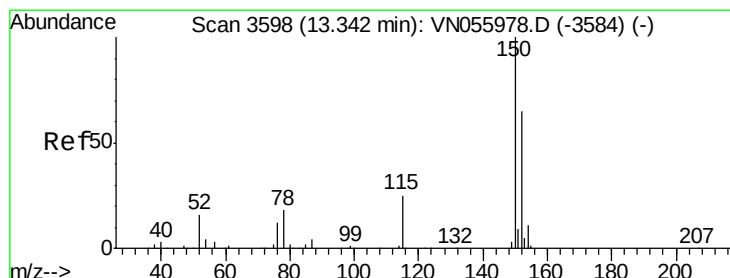
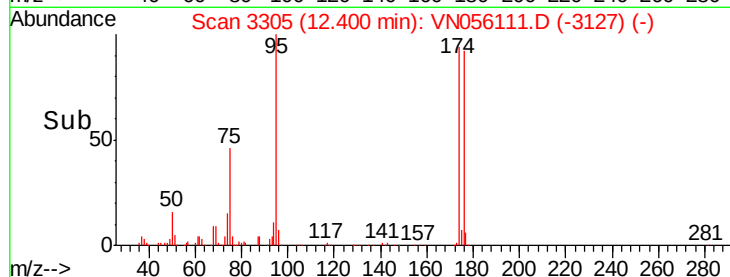
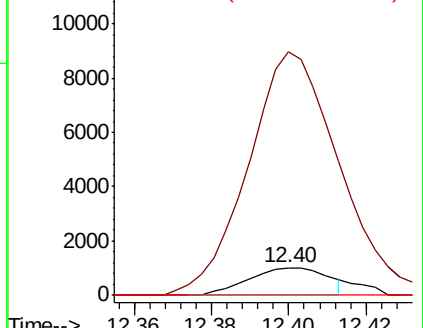
254 0.0 0.0 0.0



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: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN056111.D

Acq: 7 Jun 2019 20:35

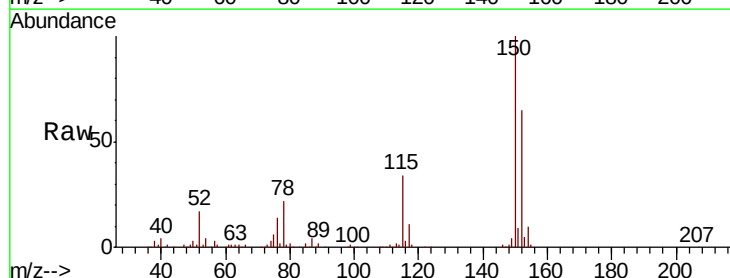
Tgt Ion:152 Resp: 169544

Ion Ratio Lower Upper

152 100

115 52.6 27.0 81.0

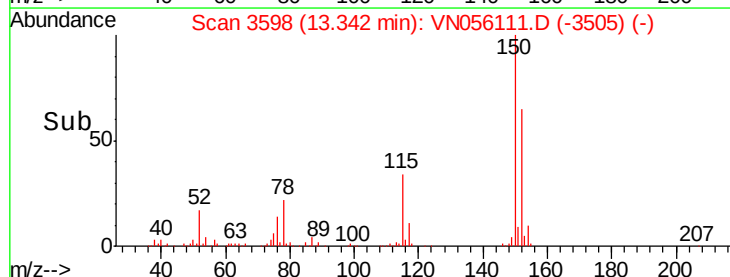
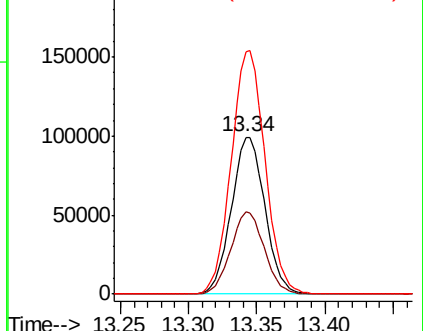
150 156.7 0.0 343.2

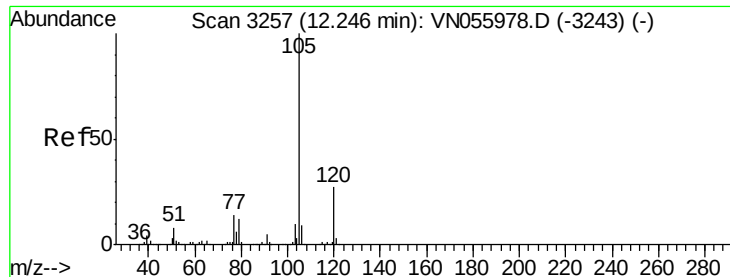


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. 0.16 min

Lab File: VN056111.D

Acq: 7 Jun 2019 20:35

Instrument :

MSVOA_N

ClientSampleId :

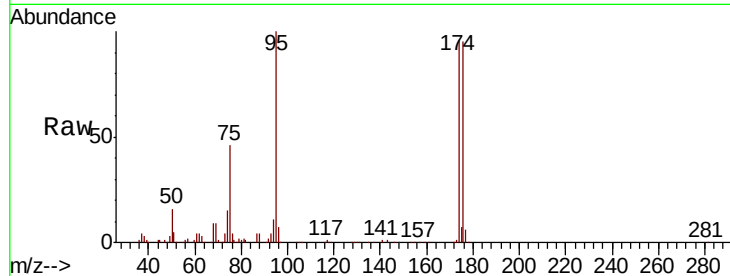
LF015MW001-190604

Tot Ion:105 Resp: 129

Ion Ratio Lower Upper

105 100

120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.40

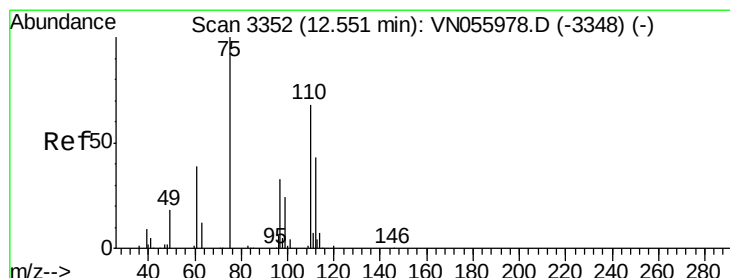
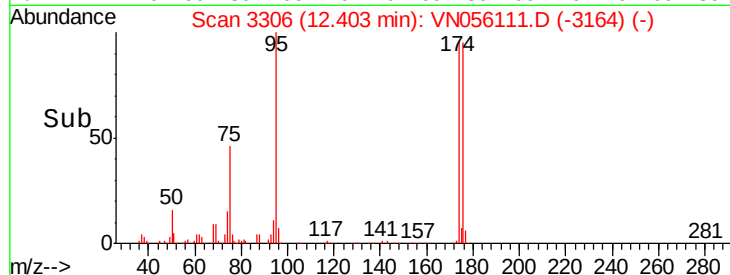
150

100

50

0

Time--> 12.38 12.40 12.42



#76

1,2,3-Trichloropropane

Concen: 31.984 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN056111.D

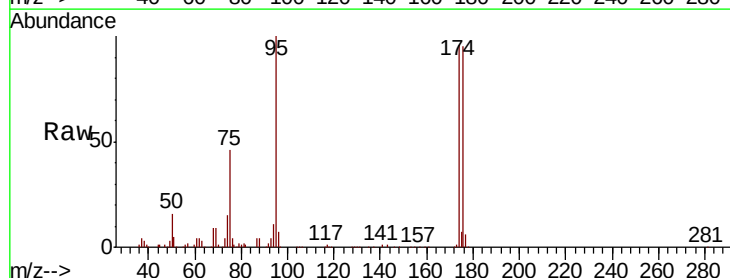
Acq: 7 Jun 2019 20:35

Tgt Ion: 75 Resp: 99780

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

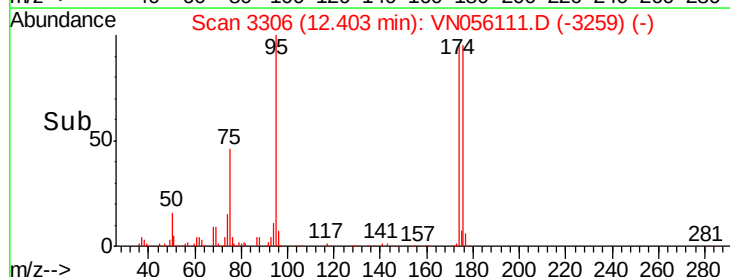
60000

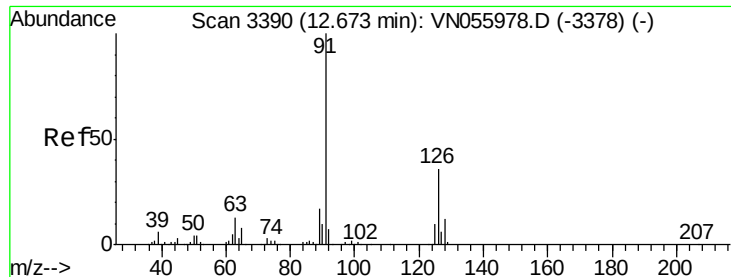
40000

20000

0

Time--> 12.40 12.50





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.40 min Scan# 3304

Delta R.T. -0.28 min

Lab File: VN056111.D

Acq: 7 Jun 2019 20:35

Instrument :

MSVOA_N

ClientSampleId :

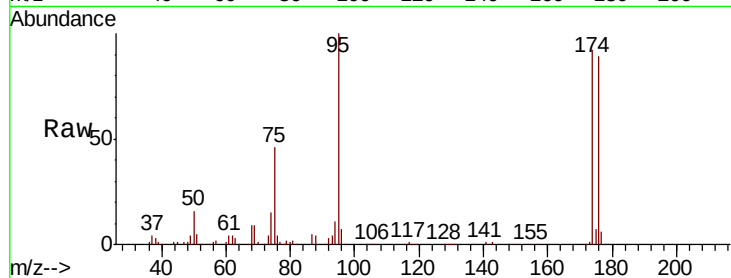
LF015MW001-190604

Tot Ion: 91 Resp: 439

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

12.40

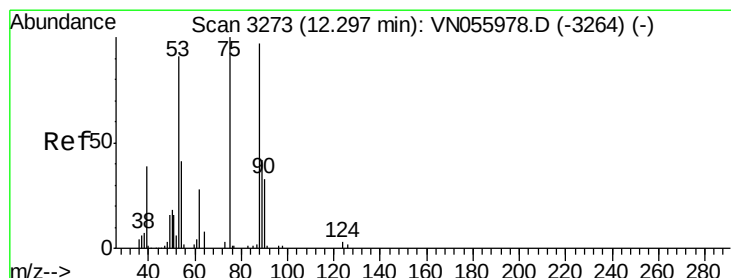
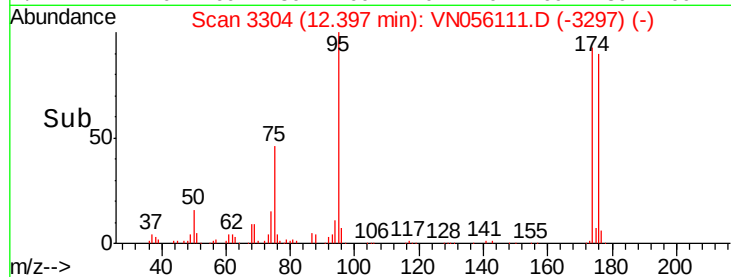
300

200

100

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 106.513 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.11 min

Lab File: VN056111.D

Acq: 7 Jun 2019 20:35

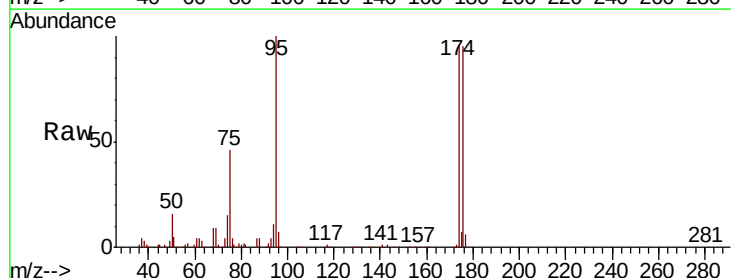
Tgt Ion: 75 Resp: 99780

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

12.40

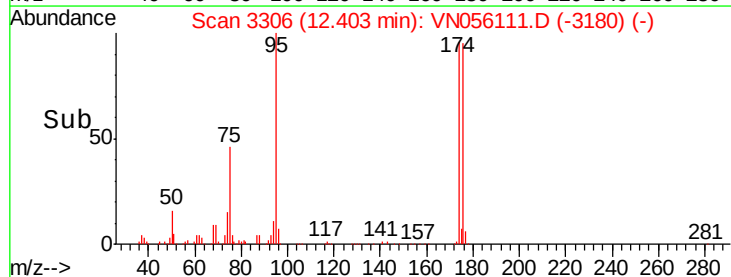
60000

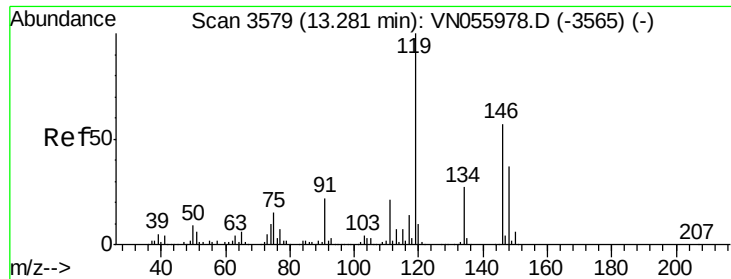
40000

20000

0

Time-->





#87

1,3-Dichlorobenzene

Concen: 0.382 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN056111.D

Acq: 7 Jun 2019 20:35

Instrument :

MSVOA_N

ClientSampleId :

LF015MW001-190604

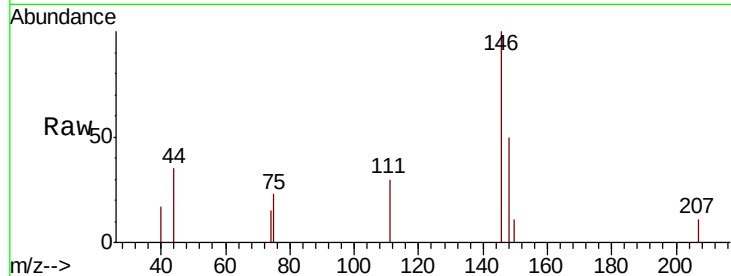
Tot Ion:146 Resp: 2147

Ion Ratio Lower Upper

146 100

111 29.0 18.5 55.5

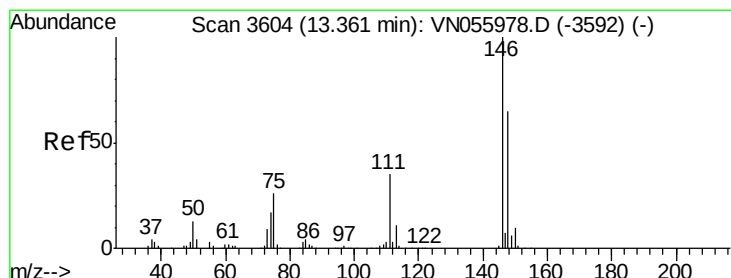
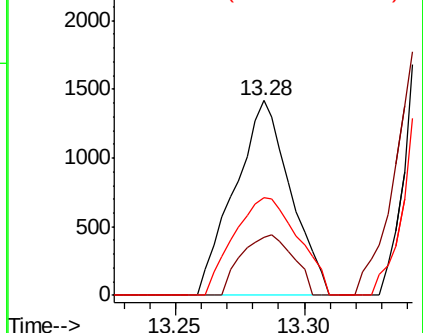
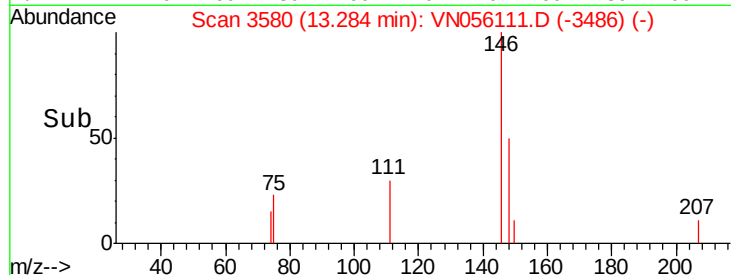
148 57.9 32.0 96.2



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



#88

1,4-Dichlorobenzene

Concen: 3.656 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. 0.00 min

Lab File: VN056111.D

Acq: 7 Jun 2019 20:35

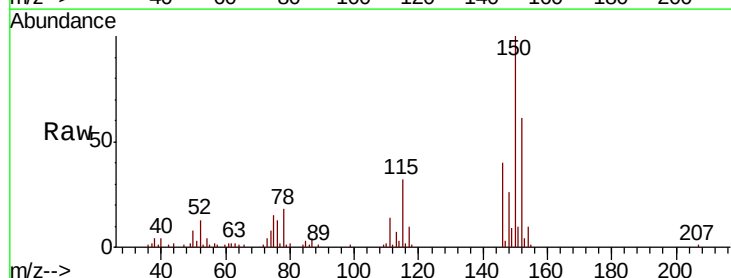
Tgt Ion:146 Resp: 19759

Ion Ratio Lower Upper

146 100

111 43.2 18.1 54.4

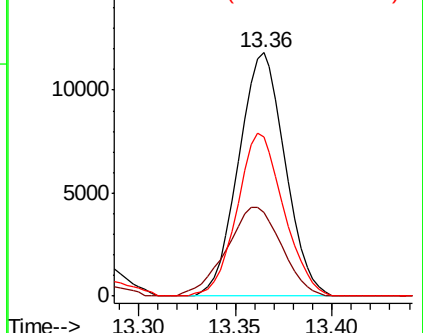
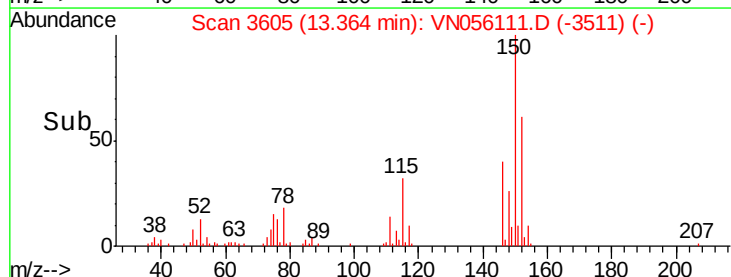
148 67.0 32.1 96.5

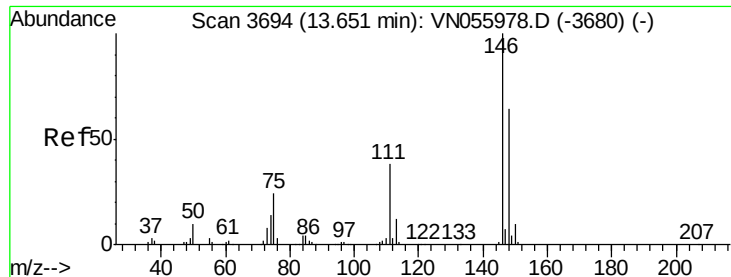


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#91

1,2-Dichlorobenzene

Concen: 1.125 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN056111.D

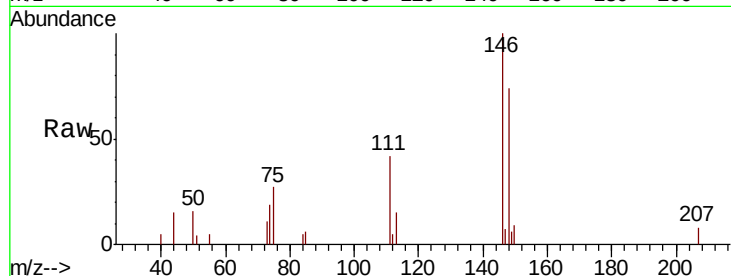
Acq: 7 Jun 2019 20:35

Instrument :

MSVOA_N

ClientSampleId :

LF015MW001-190604



Tot Ion:146 Resp: 6381

Ion Ratio Lower Upper

146 100

111 38.0 19.1 57.5

148 67.3 31.9 95.9

