

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061019\
 Data File : VN056163.D
 Acq On : 10 Jun 2019 12:27
 Operator : JC/SP
 Sample : K3255-05 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 11 02:18:44 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	290672	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	449180	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	430262	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	128625	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	158221	54.82	ug/l	0.00
Spiked Amount			Recovery	=	109.64%	
35) Dibromofluoromethane	7.59	113	147219	53.42	ug/l	0.00
Spiked Amount			Recovery	=	106.84%	
50) Toluene-d8	10.09	98	578269	54.53	ug/l	0.00
Spiked Amount			Recovery	=	109.06%	
62) 4-Bromofluorobenzene	12.40	95	176875	49.05	ug/l	0.00
Spiked Amount			Recovery	=	98.10%	

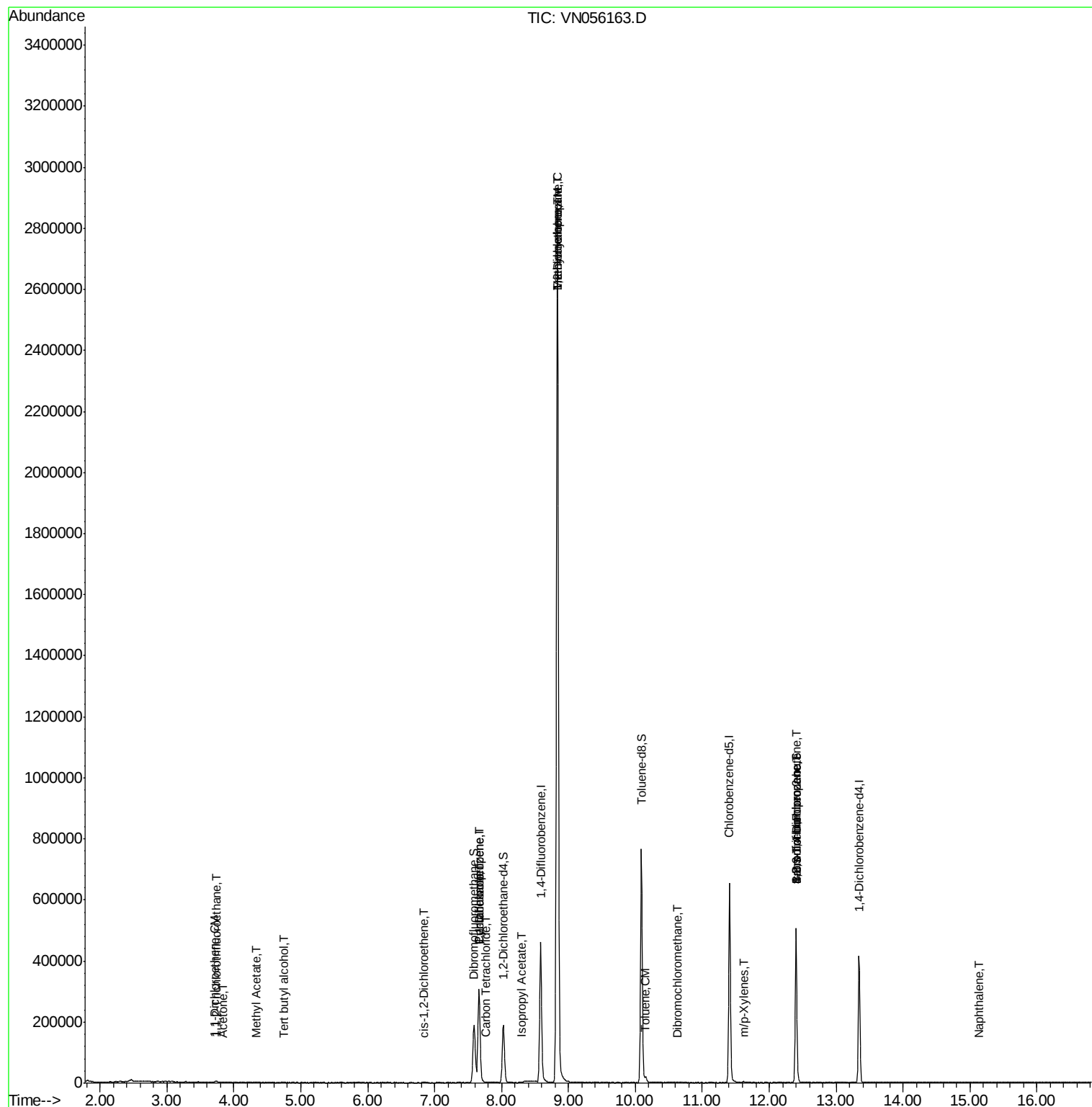
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) 1,1,2-Trichlorotrifluoroet	3.74	101	2455	1.002	ug/l #	85
11) Tert butyl alcohol	4.74	59	195	0.388	ug/l #	74
12) 1,1-Dichloroethene	3.71	96	572	0.234	ug/l	94
16) Acetone	3.82	43	2341	1.696	ug/l #	83
18) Methyl Acetate	4.33	43	2268	0.261	ug/l #	63
27) cis-1,2-Dichloroethene	6.82	96	1114	0.362	ug/l	28
31) Cyclohexane	7.66	56	4167	0.910	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	17123	4.433	ug/l #	48
38) Carbon Tetrachloride	7.77	117	926	0.260	ug/l #	61
39) Methylcyclohexane	8.84	83	12651	2.629	ug/l #	1
43) Isopropyl Acetate	8.28	43	2602	0.467	ug/l #	53
44) Trichloroethene	8.83	130	1188927	352.713	ug/l	100
45) 1,2-Dichloropropane	8.83	63	2251	0.749	ug/l #	1
52) Toluene	10.16	92	5771	0.791	ug/l	98
60) Dibromochloromethane	10.63	129	457	2.588	ug/l #	11
68) m/p-Xylenes	11.62	106	1540	0.271	ug/l	93
71) Bromoform	12.40	173	1340	3.252	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	81607	34.481	ug/l #	100
79) 2-Chlorotoluene	12.60	91	252	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	81607	114.827	ug/l #	15
95) Naphthalene	15.13	128	393	3.910	ug/l #	69

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

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QLast Update : Tue Jun 04 11:02:09 2019
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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: VN056163.D

Acq: 10 Jun 2019 12:27

Instrument :

MSVOA_N

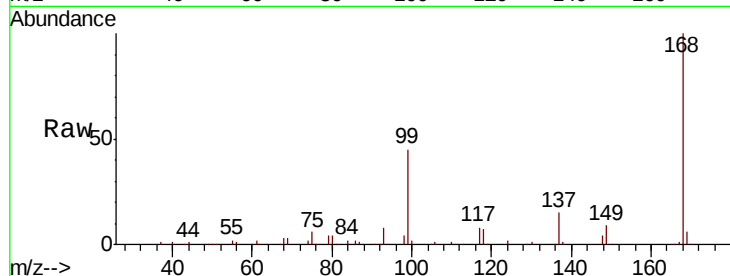
ClientSampleId :

Tot Ion:168 Resp: 290672

Ion Ratio Lower Upper

168 100

99 44.9 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

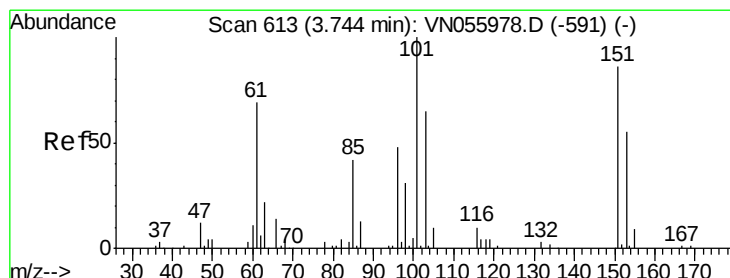
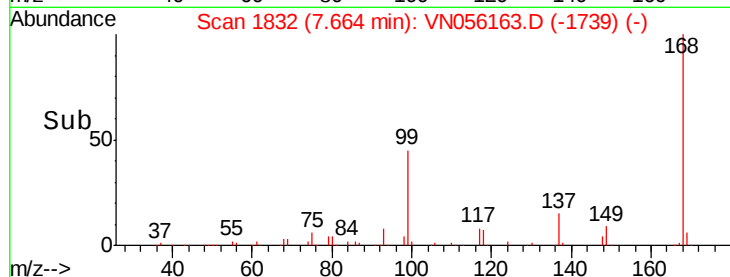
7.66

100000

50000

0

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.002 ug/l

RT: 3.74 min Scan# 613

Delta R.T. 0.00 min

Lab File: VN056163.D

Acq: 10 Jun 2019 12:27

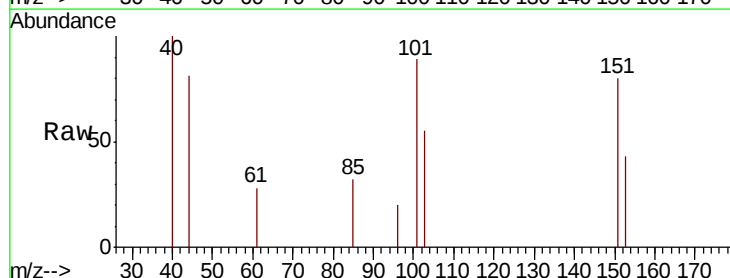
Tgt Ion:101 Resp: 2455

Ion Ratio Lower Upper

101 100

85 16.5 33.4 50.2#

151 89.6 69.4 104.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V

1200

1000

800

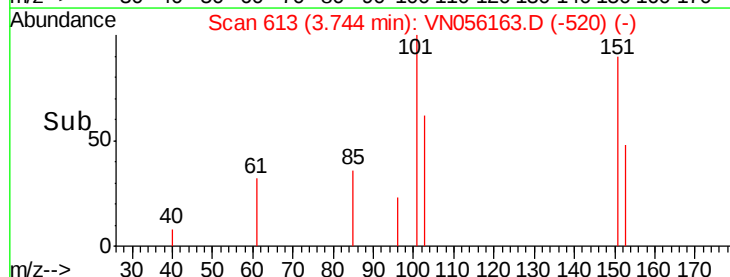
600

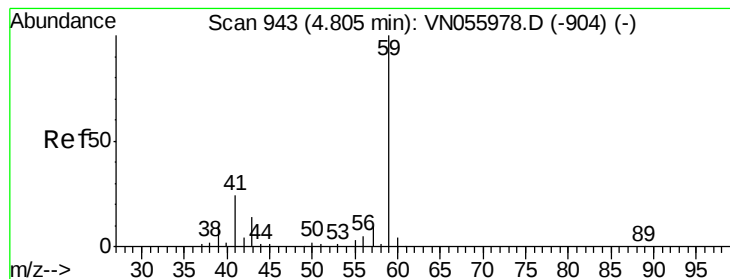
400

200

0

Time-->



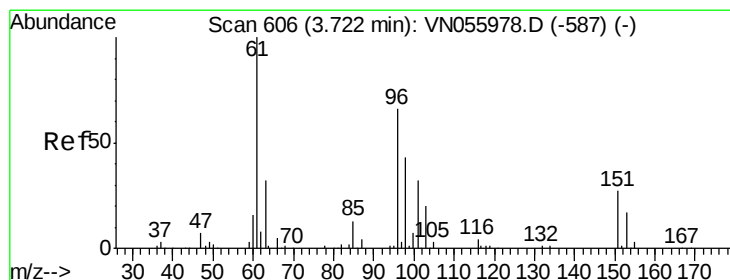
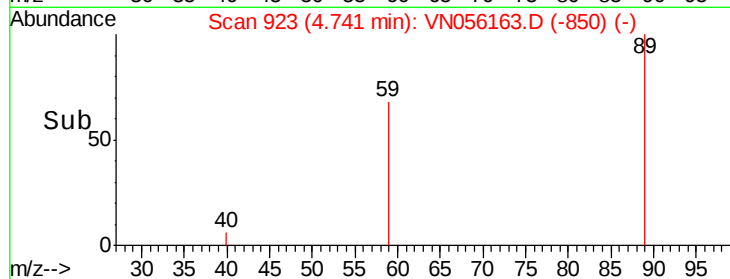
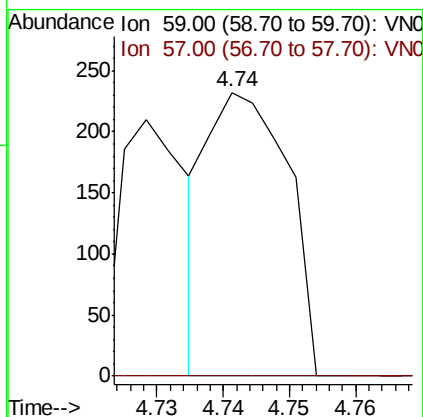
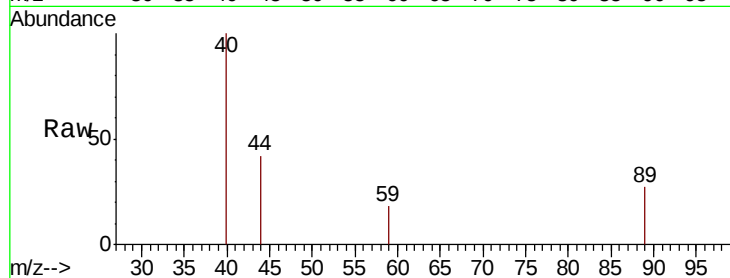


#11

Tert butvl alcohol
 Concen: 0.388 ug/l
 RT: 4.74 min Scan# 923
 Delta R.T. -0.06 min
 Lab File: VN056163.D
 Acq: 10 Jun 2019 12:27

Instrument :
 MSVOA_N
 ClientSampled :

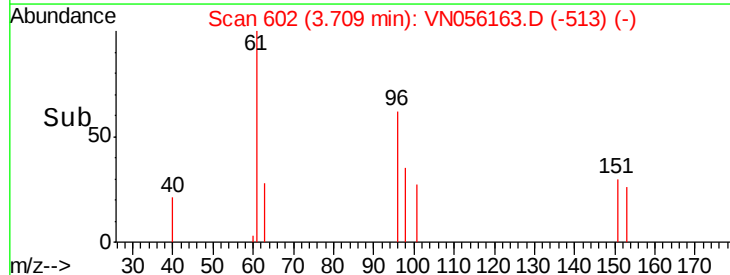
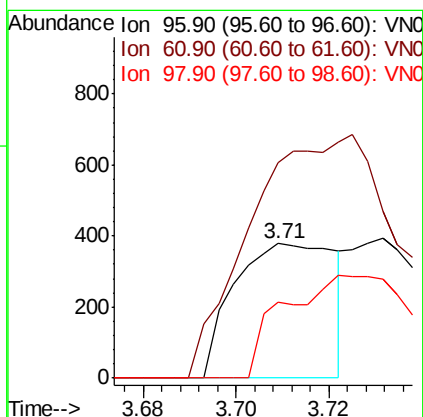
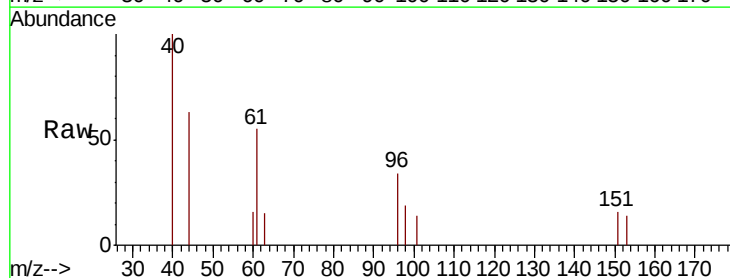
Tot Ion: 59 Resp: 195
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.6#



#12

1,1-Dichloroethene
 Concen: 0.234 ug/l
 RT: 3.71 min Scan# 602
 Delta R.T. -0.01 min
 Lab File: VN056163.D
 Acq: 10 Jun 2019 12:27

Tgt Ion: 96 Resp: 572
 Ion Ratio Lower Upper
 96 100
 61 160.2 123.2 184.8
 98 56.7 50.4 75.6

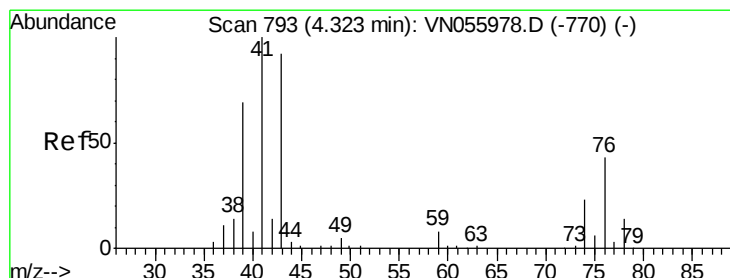
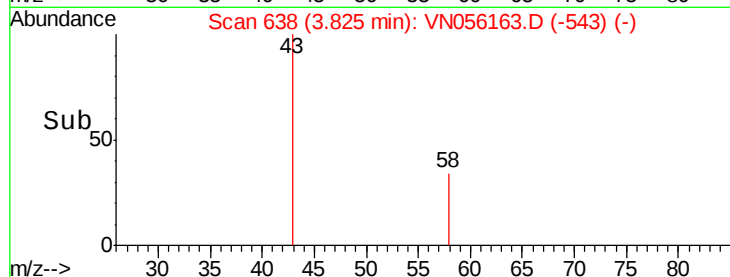
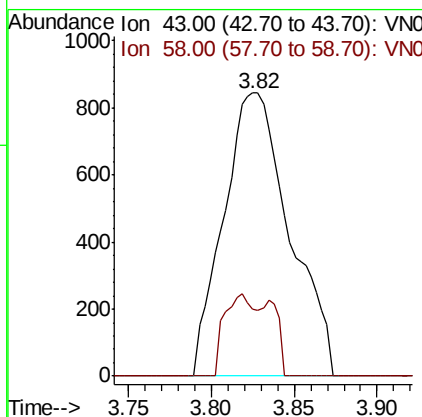
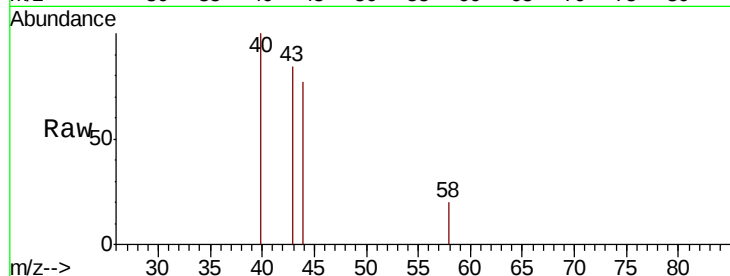




#16
Acetone
Concen: 1.696 ug/l
RT: 3.82 min Scan# 638
Delta R.T. 0.01 min
Lab File: VN056163.D
Acq: 10 Jun 2019 12:27

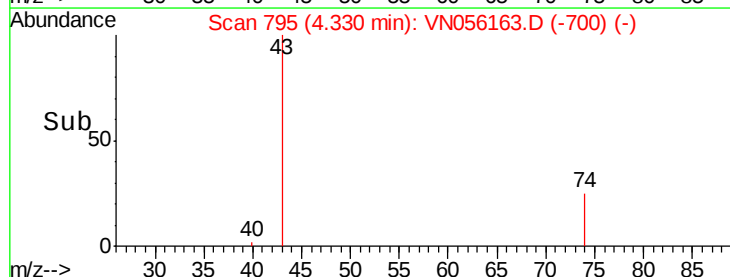
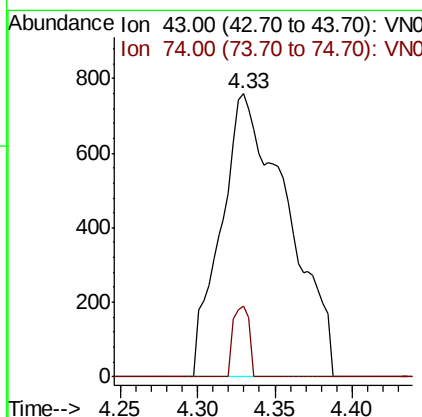
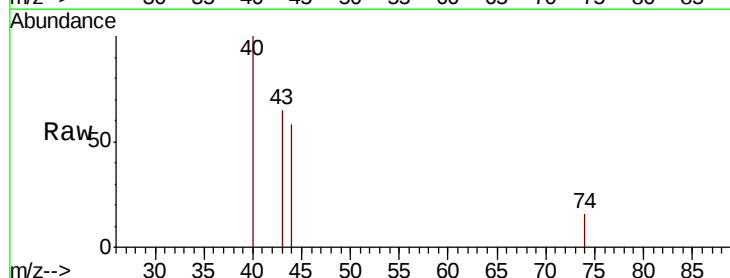
Instrument :
MSVOA_N
ClientSampleId :

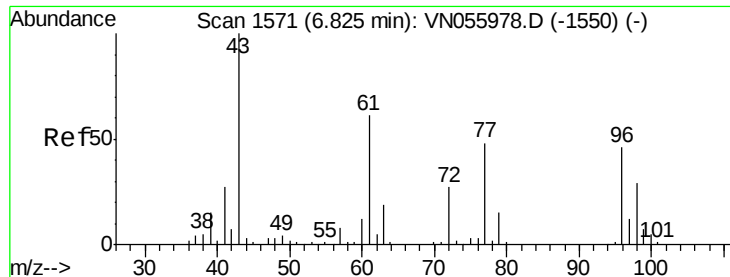
Tot Ion: 43 Resp: 2341
Ion Ratio Lower Upper
43 100
58 23.6 26.6 39.8#



#18
Methyl Acetate
Concen: 0.261 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.01 min
Lab File: VN056163.D
Acq: 10 Jun 2019 12:27

Tgt Ion: 43 Resp: 2268
Ion Ratio Lower Upper
43 100
74 5.8 19.3 28.9#





#27

cis-1,2-Dichloroethene

Concen: 0.362 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN056163.D

Acq: 10 Jun 2019 12:27

Instrument :
MSVOA_N
ClientSampleId :

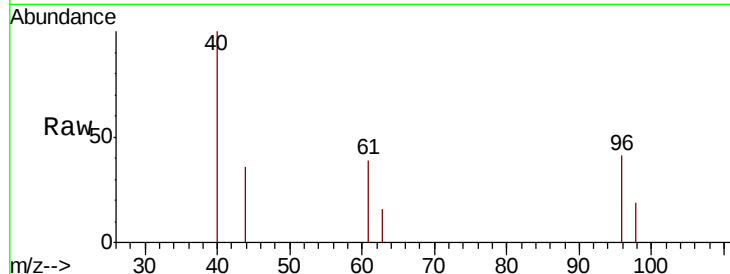
Tot Ion: 96 Resp: 1114

Ion Ratio Lower Upper

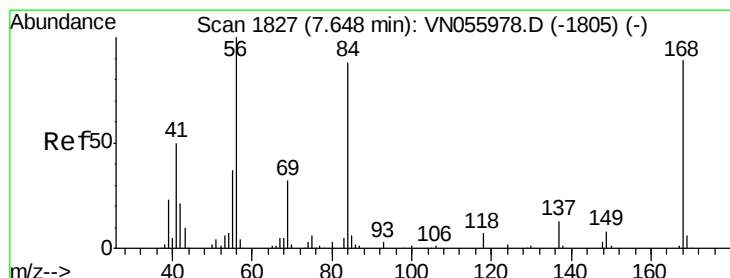
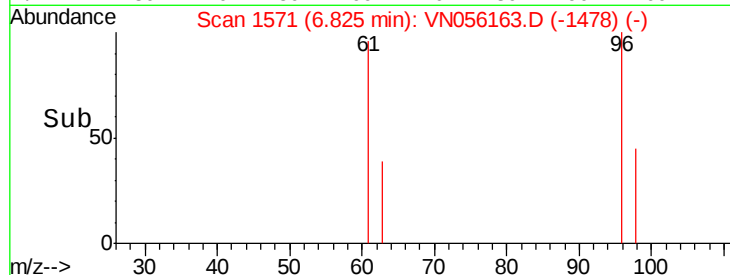
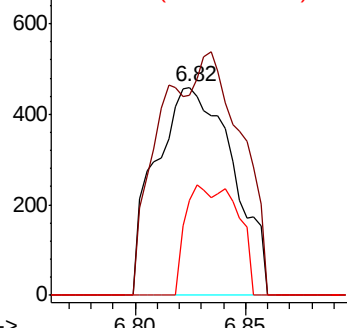
96 100

61 44.3 0.0 275.8

98 18.3 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: 0.910 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN056163.D

Acq: 10 Jun 2019 12:27

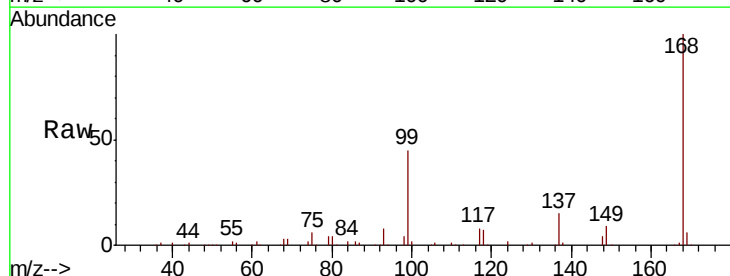
Tgt Ion: 56 Resp: 4167

Ion Ratio Lower Upper

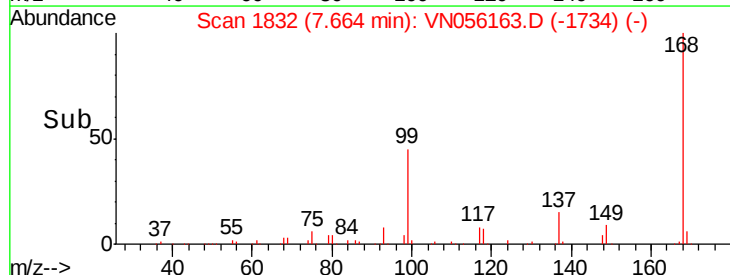
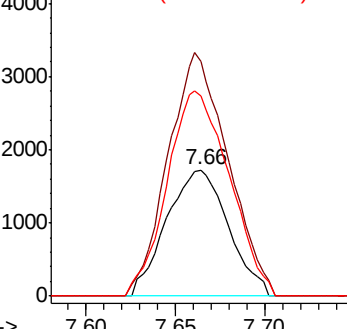
56 100

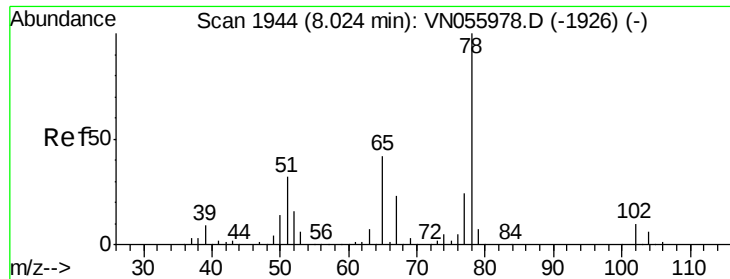
69 185.6 25.6 38.4#

84 158.0 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: 54.821 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056163.D

Acq: 10 Jun 2019 12:27

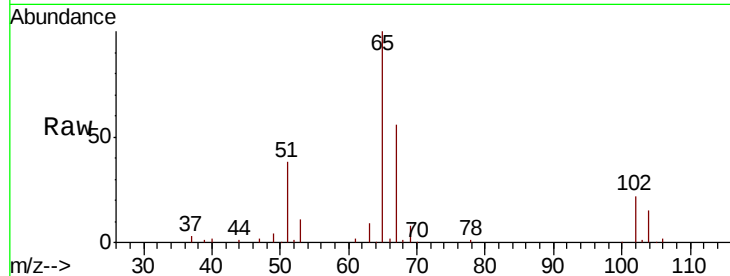
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 65 Resp: 158221

Ion Ratio Lower Upper

65 100

67 54.9 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN055978.D (-1926) (-)

Ion 66.90 (66.60 to 67.60): VN055978.D (-1926) (-)

8.03

60000

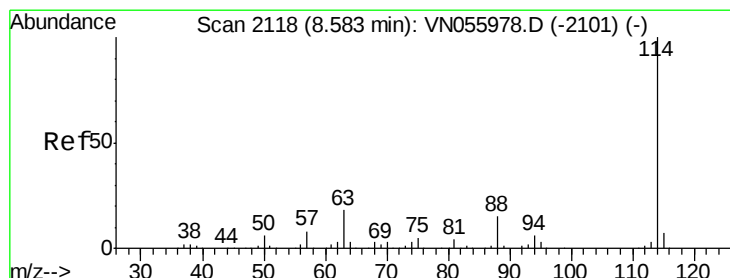
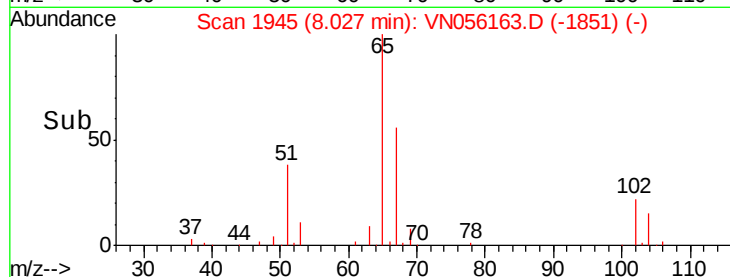
40000

20000

0

7.90 8.00 8.10 8.20

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN056163.D

Acq: 10 Jun 2019 12:27

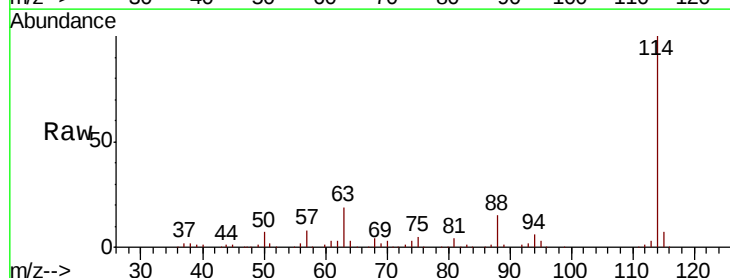
Tgt Ion: 114 Resp: 449180

Ion Ratio Lower Upper

114 100

63 18.6 0.0 39.2

88 14.8 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): VN055978.D (-2101) (-)

Ion 63.00 (62.70 to 63.70): VN055978.D (-2101) (-)

Ion 87.90 (87.60 to 88.60): VN055978.D (-2101) (-)

8.58

250000

200000

150000

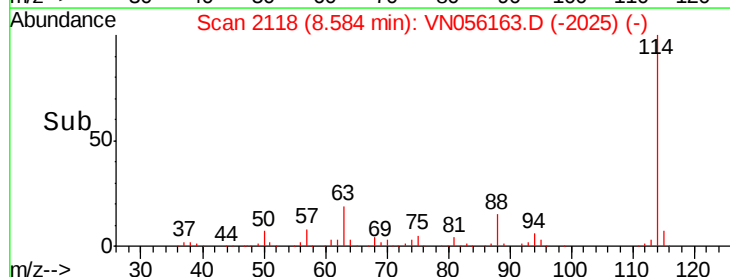
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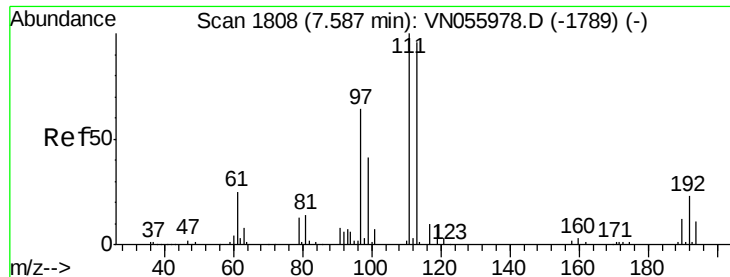
50000

0

8.50 8.60 8.70 8.80

Time-->

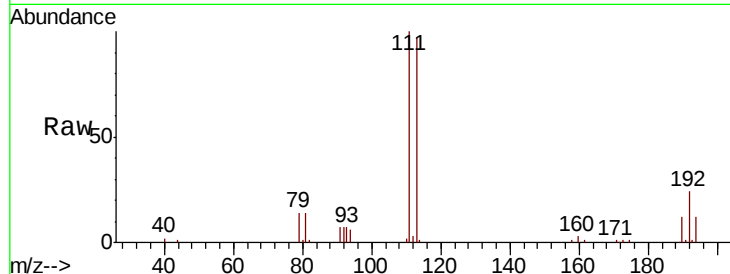




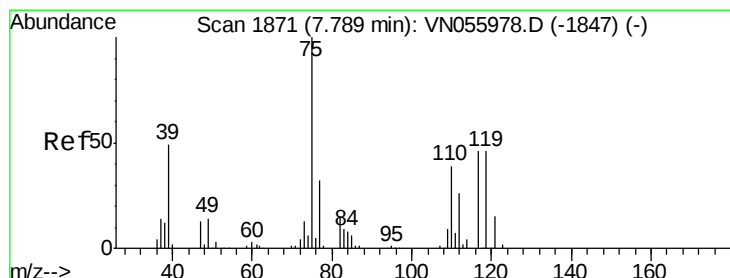
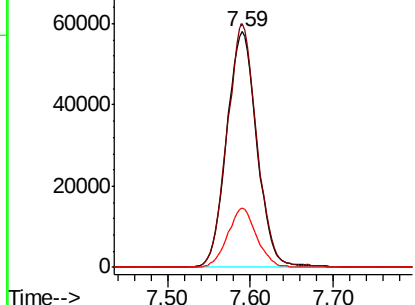
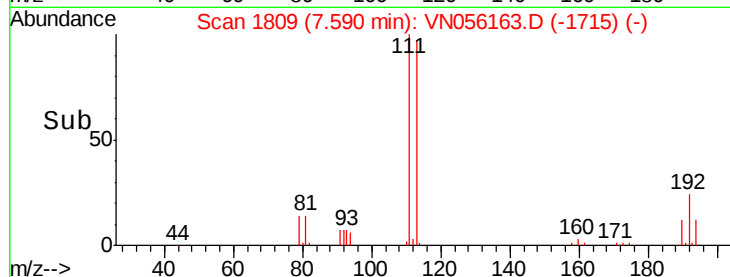
#35
 Dibromofluoromethane
 Concen: 53.420 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056163.D
 Acq: 10 Jun 2019 12:27

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.0	81.9	122.9
192	24.0	19.5	29.3

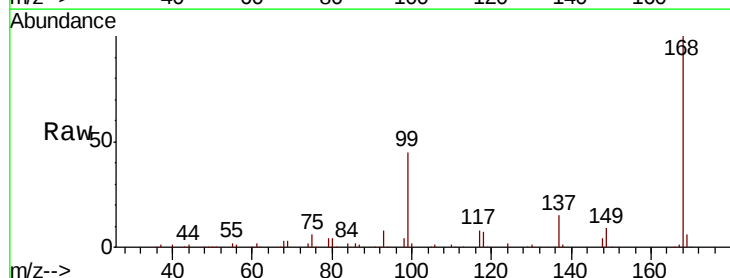


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

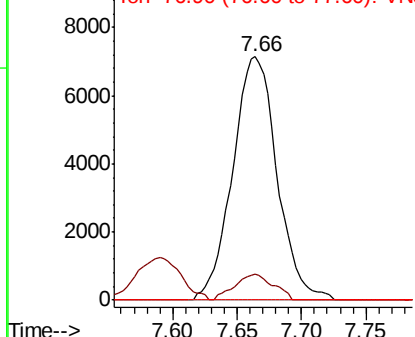
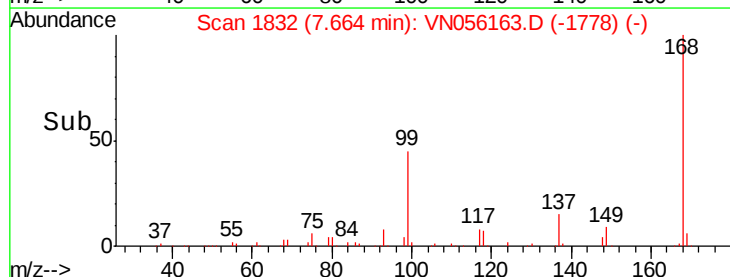


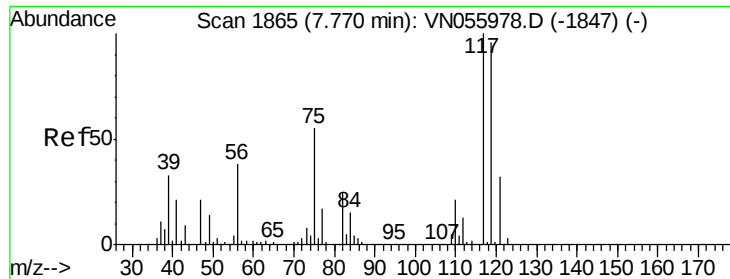
#36
 1,1-Dichloropropene
 Concen: 4.433 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056163.D
 Acq: 10 Jun 2019 12:27

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	19.0	57.0#
77	0.0	25.1	37.7#



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

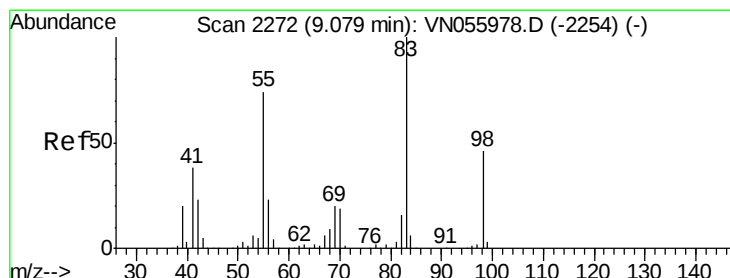
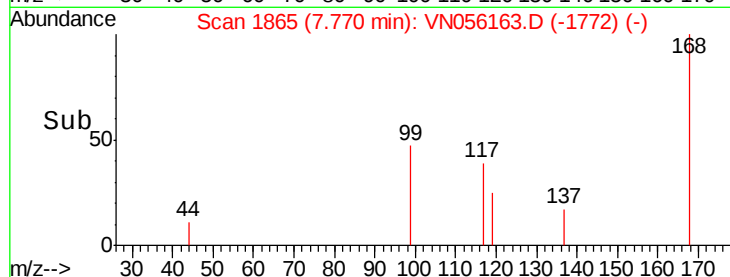
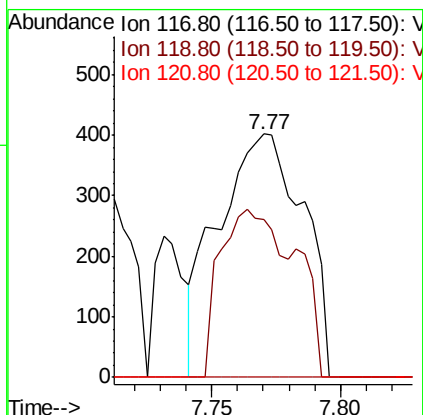
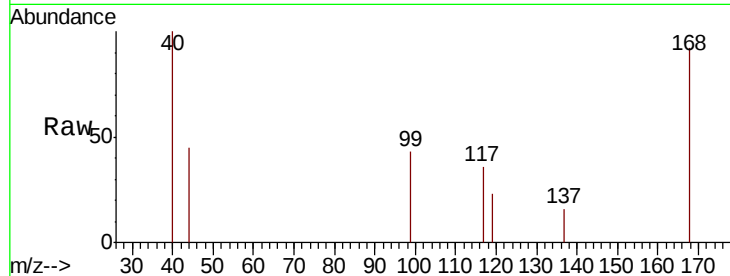




#38
Carbon Tetrachloride
Concen: 0.260 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. 0.00 min
Lab File: VN056163.D
Acq: 10 Jun 2019 12:27

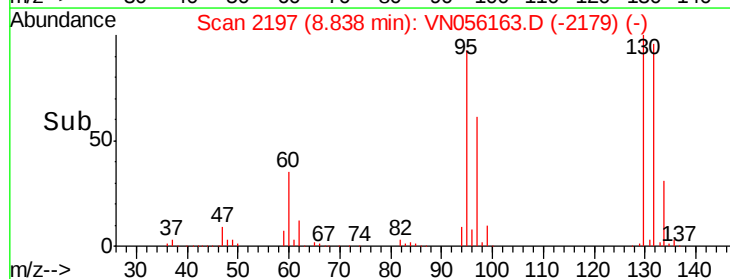
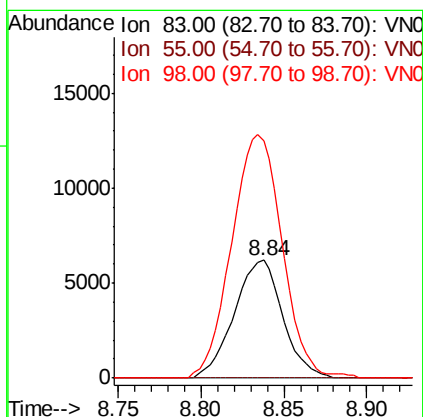
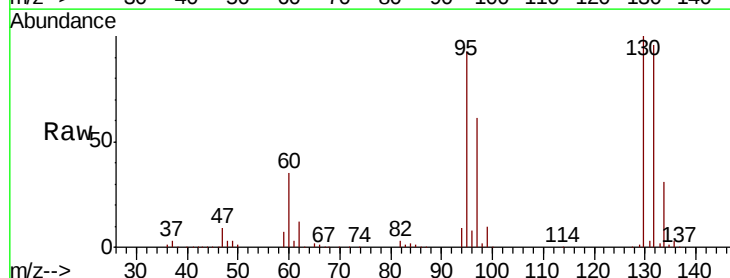
Instrument :
MSVOA_N
ClientSampleId :

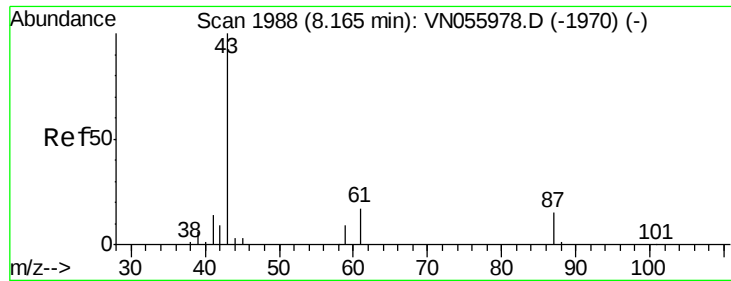
Tot Ion:117 Resp: 926
Ion Ratio Lower Upper
117 100
119 64.9 79.0 118.6#
121 0.0 24.7 37.1#



#39
Methylcyclohexane
Concen: 2.629 ug/l
RT: 8.84 min Scan# 2197
Delta R.T. -0.24 min
Lab File: VN056163.D
Acq: 10 Jun 2019 12:27

Tgt Ion: 83 Resp: 12651
Ion Ratio Lower Upper
83 100
55 0.0 59.3 88.9#
98 202.1 36.6 54.8#





#43

Isopropyl Acetate

Concen: 0.467 ug/l

RT: 8.28 min Scan# 2025

Delta R.T. 0.12 min

Lab File: VN056163.D

Acq: 10 Jun 2019 12:27

Instrument :

MSVOA_N

ClientSampled :

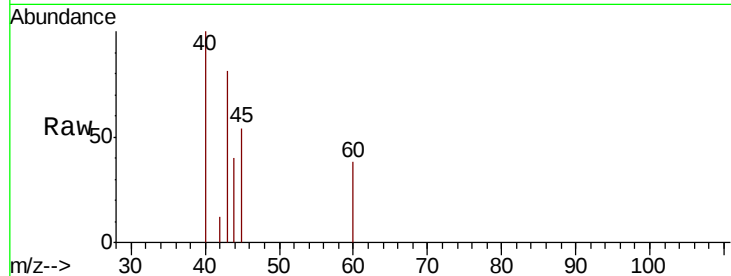
Tot Ion: 43 Resp: 2602

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

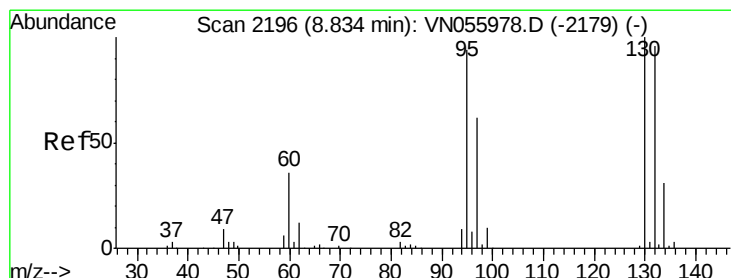
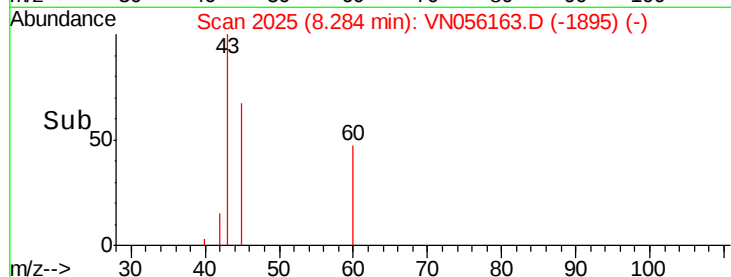
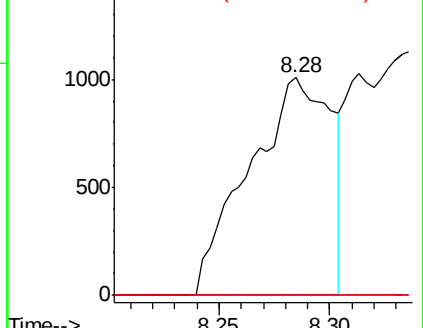
87 0.0 11.4 17.2#



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



#44

Trichloroethene

Concen: 352.713 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN056163.D

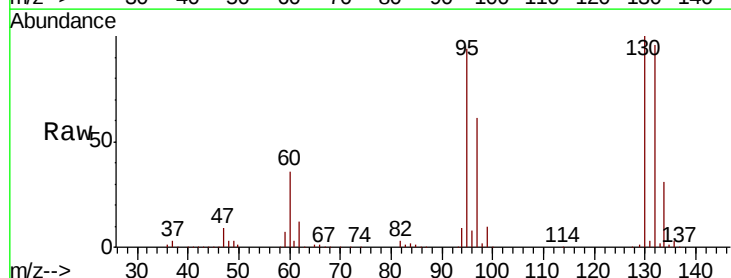
Acq: 10 Jun 2019 12:27

Tgt Ion:130 Resp: 1188927

Ion Ratio Lower Upper

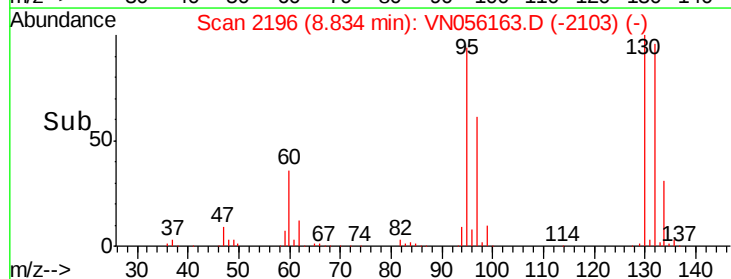
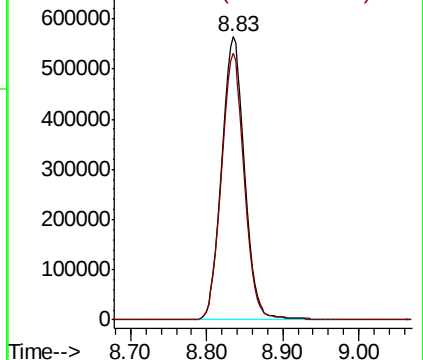
130 100

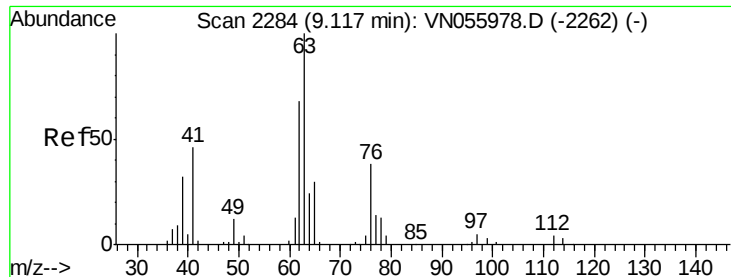
95 94.2 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0





#45

1,2-Dichloropropane

Concen: 0.749 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. -0.28 min

Lab File: VN056163.D

Acq: 10 Jun 2019 12:27

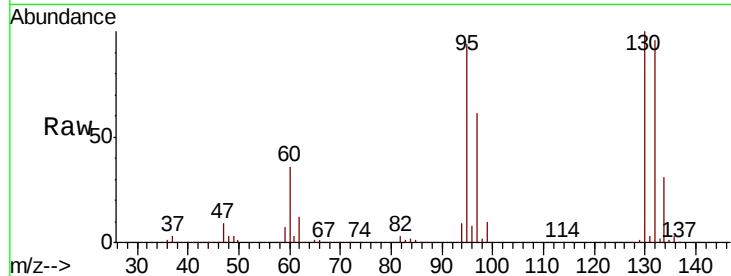
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 63 Resp: 2251

Ion Ratio Lower Upper

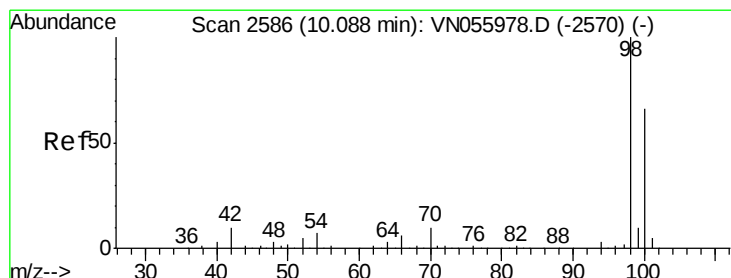
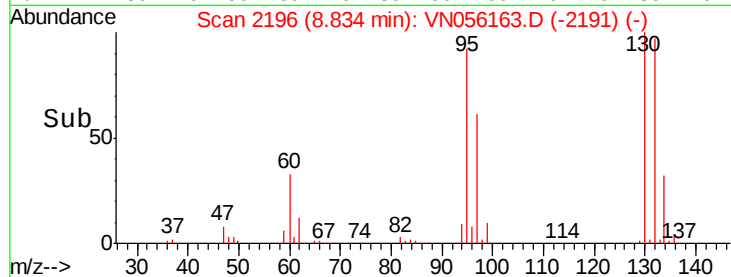
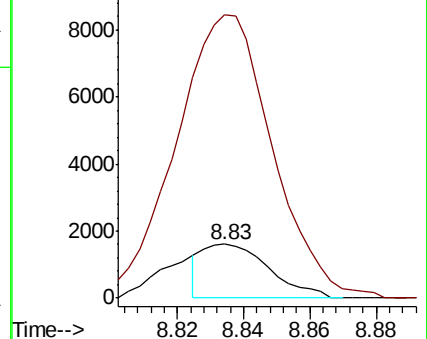
63 100

65 505.0 24.6 36.8#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#50

Toluene-d8

Concen: 54.530 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056163.D

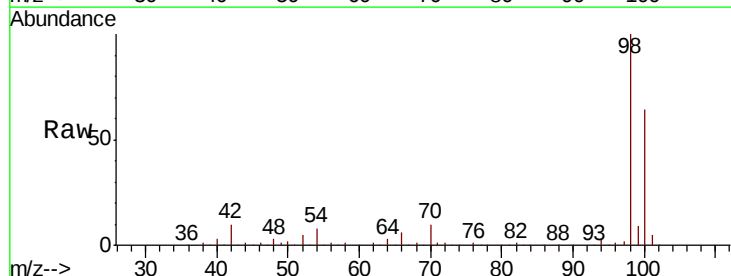
Acq: 10 Jun 2019 12:27

Tgt Ion: 98 Resp: 578269

Ion Ratio Lower Upper

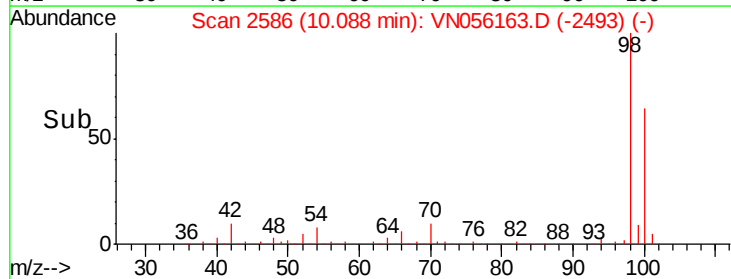
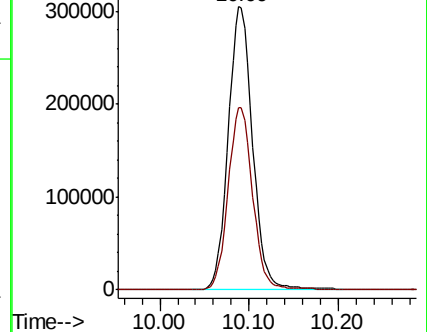
98 100

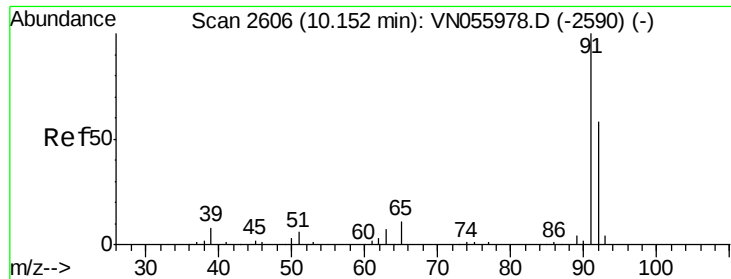
100 64.9 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#52

Toluene

Concen: 0.791 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN056163.D

Acq: 10 Jun 2019 12:27

Instrument :

MSVOA_N

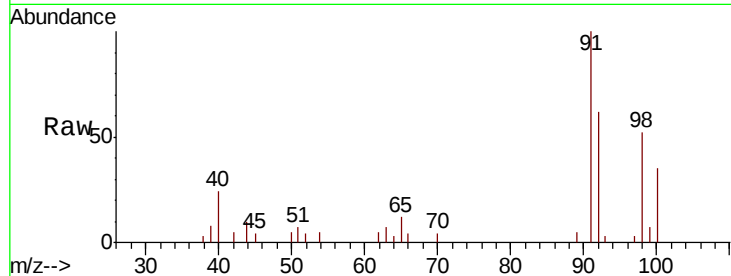
ClientSampled :

Tot Ion: 92 Resp: 5771

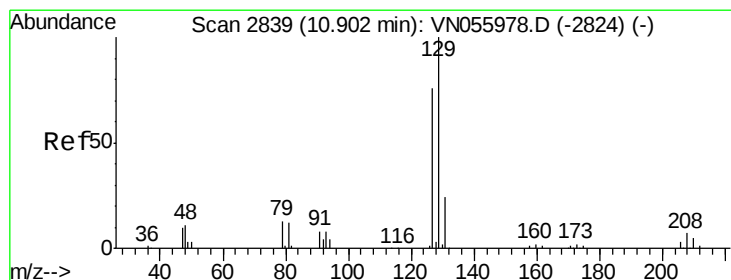
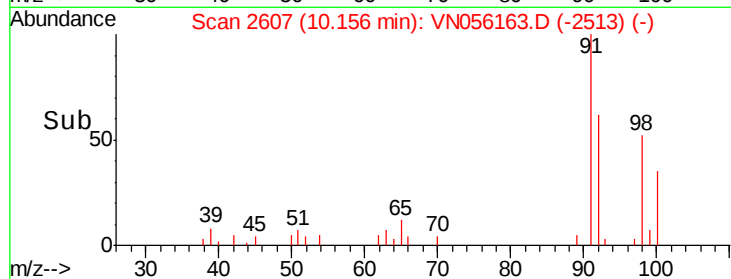
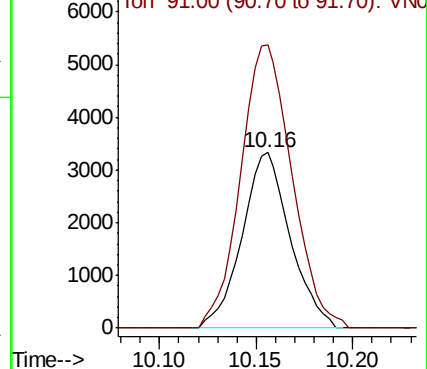
Ion Ratio Lower Upper

92 100

91 171.7 139.4 209.2



Abundance Ion 92.00 (91.70 to 92.70): VN055978.D (-2590) (-)



#60

Dibromochloromethane

Concen: 2.588 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.27 min

Lab File: VN056163.D

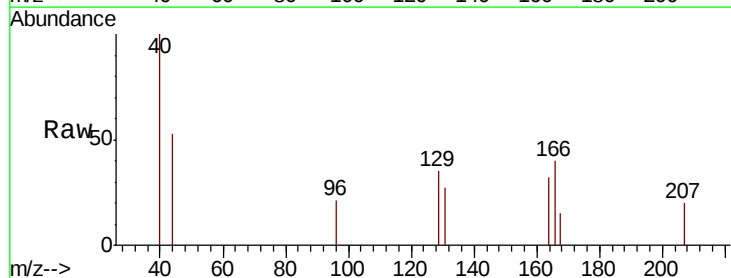
Acq: 10 Jun 2019 12:27

Tgt Ion: 129 Resp: 457

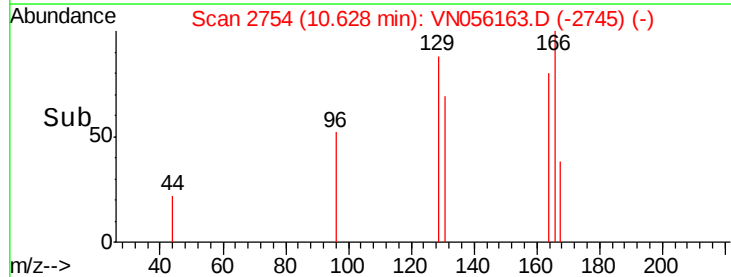
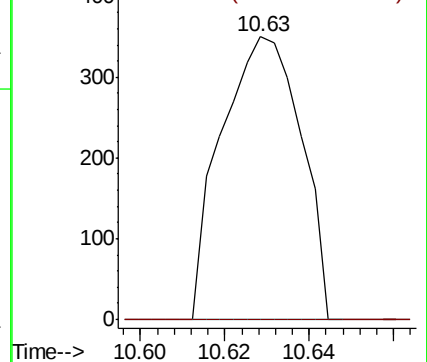
Ion Ratio Lower Upper

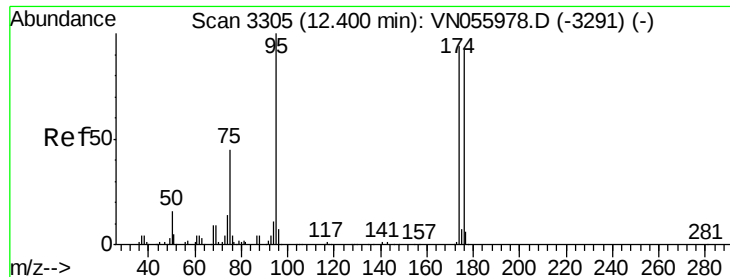
129 100

127 0.0 38.1 114.3#



Abundance Ion 128.80 (128.50 to 129.50): VN055978.D (-2824) (-)

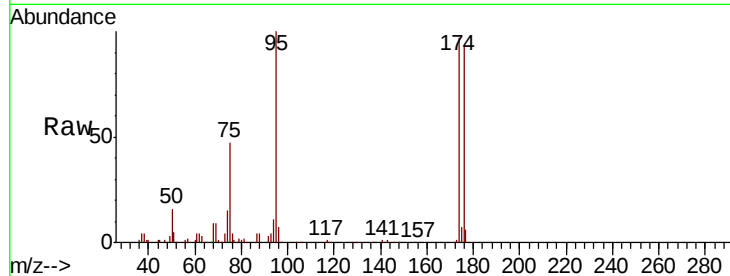




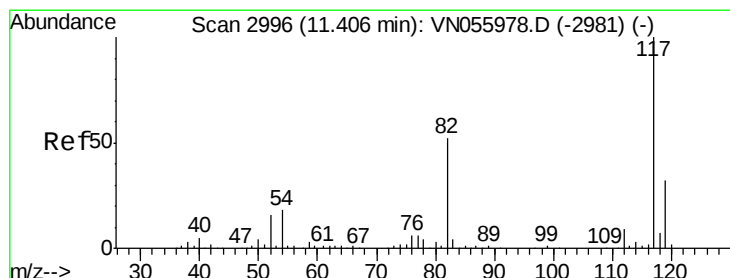
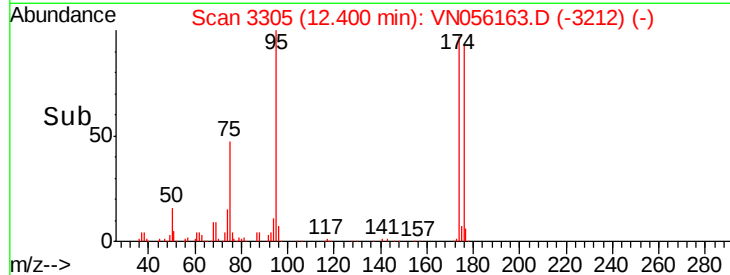
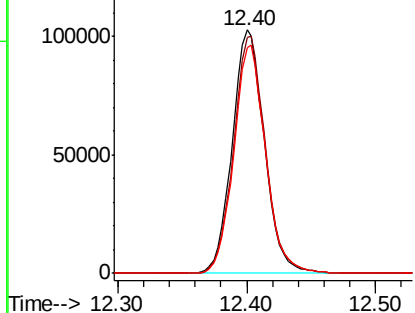
#62
4-Bromofluorobenzene
Concen: 49.045 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056163.D
Acq: 10 Jun 2019 12:27

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 95 Resp: 176875
Ion Ratio Lower Upper
95 100
174 96.9 0.0 191.0
176 93.0 0.0 185.2

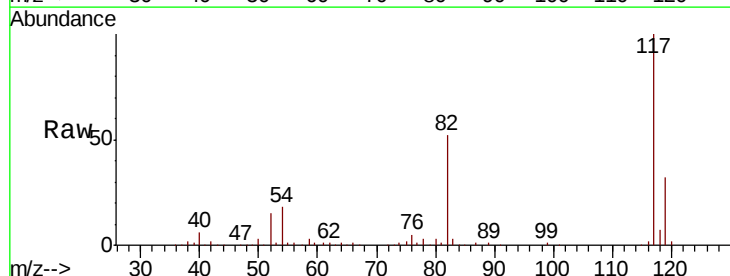


Abundance Ion 94.90 (94.60 to 95.60): VN055978.D (-3291) (-)
Ion 173.80 (173.50 to 174.50): VN055978.D (-3291) (-)
Ion 175.80 (175.50 to 176.50): VN055978.D (-3291) (-)

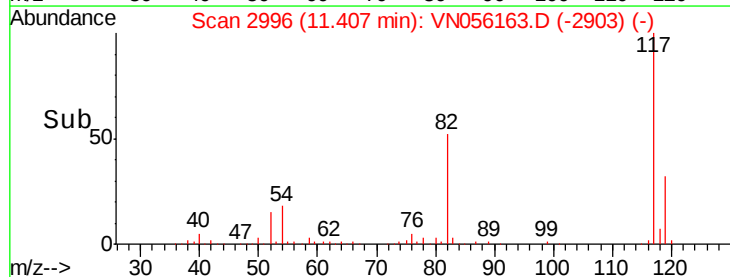
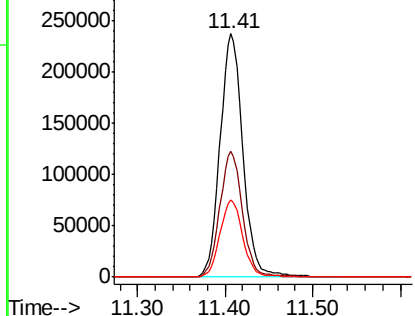


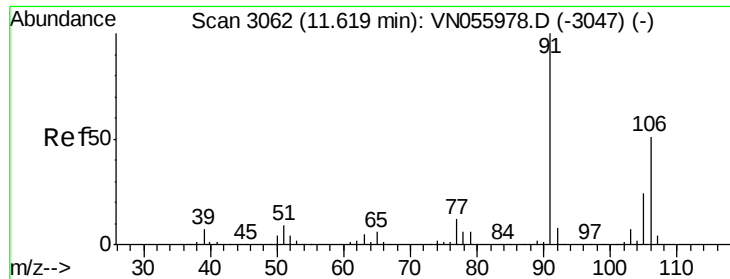
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056163.D
Acq: 10 Jun 2019 12:27

Tgt Ion: 117 Resp: 430262
Ion Ratio Lower Upper
117 100
82 51.7 41.8 62.8
119 31.5 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): VN055978.D (-2981) (-)
Ion 82.00 (81.70 to 82.70): VN055978.D (-2981) (-)
Ion 118.90 (118.60 to 119.60): VN055978.D (-2981) (-)

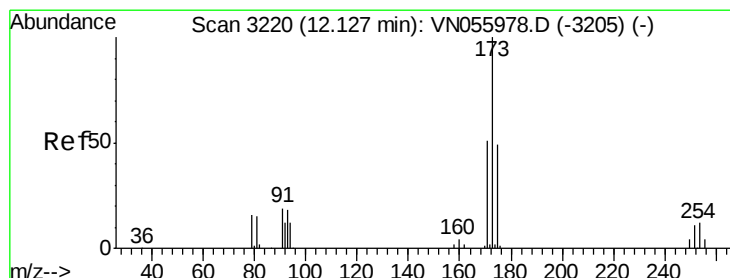
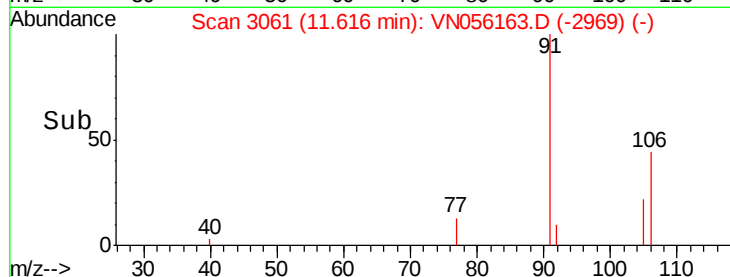
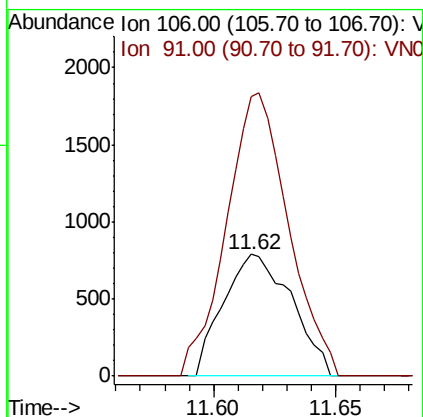
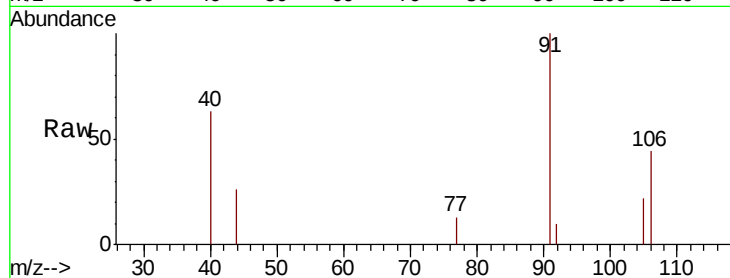




#68
m/p-Xvlenes
Concen: 0.271 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN056163.D
Acq: 10 Jun 2019 12:27

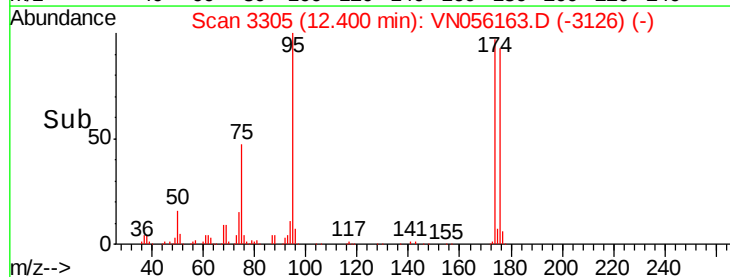
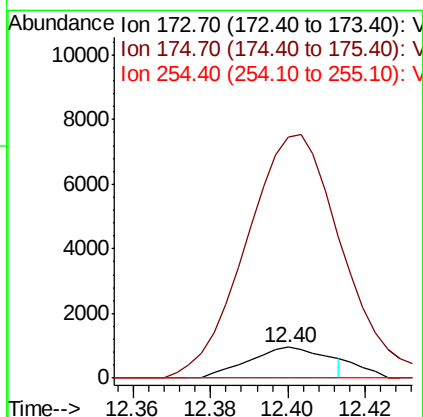
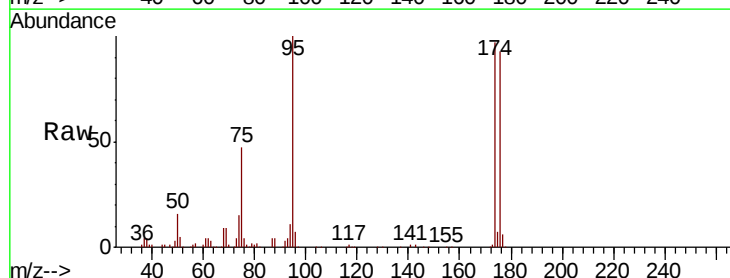
Instrument :
MSVOA_N
ClientSampled :

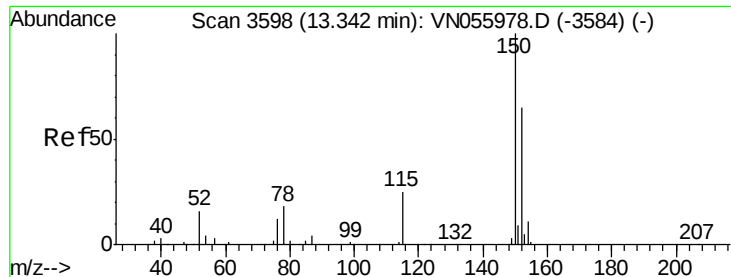
Tot Ion:106 Resp: 1540
Ion Ratio Lower Upper
106 100
91 210.3 159.3 238.9



#71
Bromoform
Concen: 3.252 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN056163.D
Acq: 10 Jun 2019 12:27

Tgt Ion:173 Resp: 1340
Ion Ratio Lower Upper
173 100
175 836.0 24.3 72.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN056163.D

Acq: 10 Jun 2019 12:27

Instrument :

MSVOA_N

ClientSampleId :

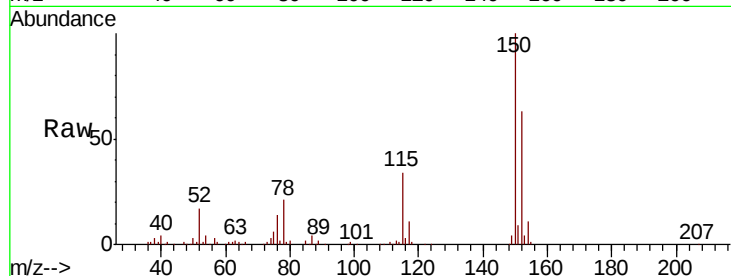
Tot Ion:152 Resp: 128625

Ion Ratio Lower Upper

152 100

115 52.8 27.0 81.0

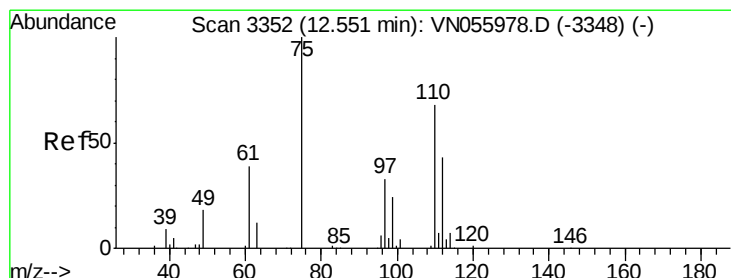
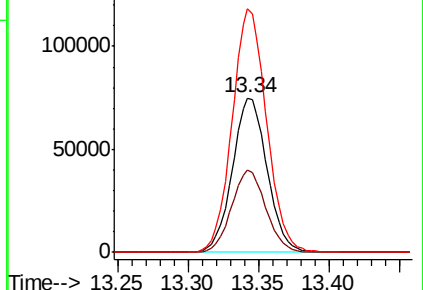
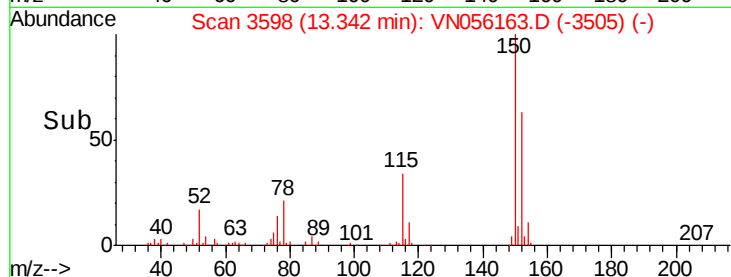
150 157.0 0.0 343.2



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



#76

1,2,3-Trichloropropane

Concen: 34.481 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056163.D

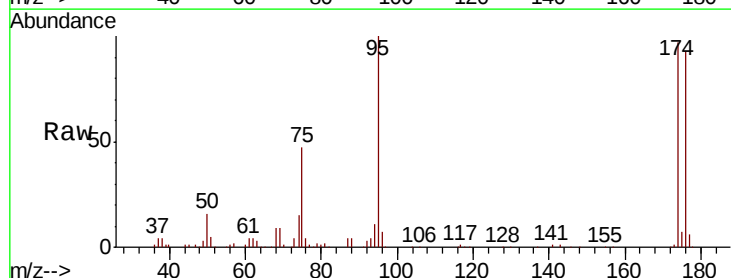
Acq: 10 Jun 2019 12:27

Tgt Ion: 75 Resp: 81607

Ion Ratio Lower Upper

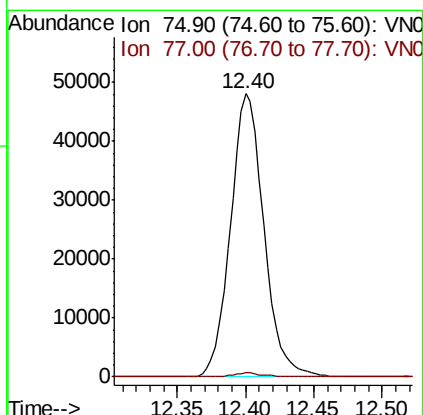
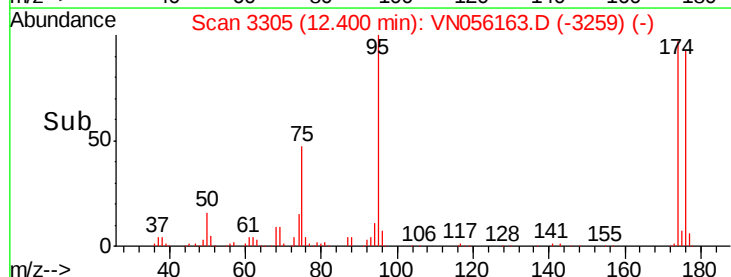
75 100

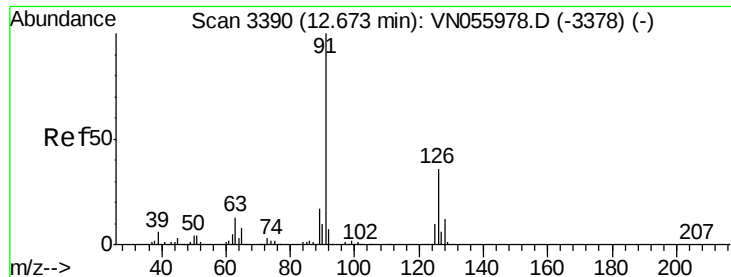
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.60 min Scan# 3366

Delta R.T. -0.08 min

Lab File: VN056163.D

Acq: 10 Jun 2019 12:27

Instrument :

MSVOA_N

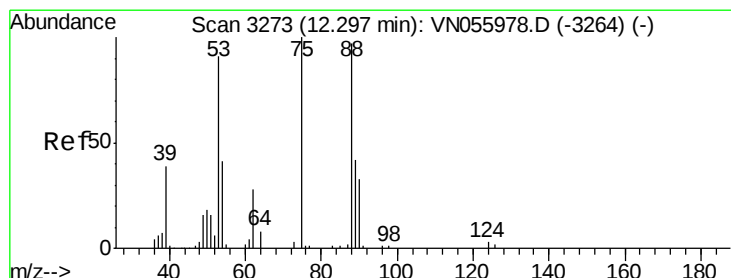
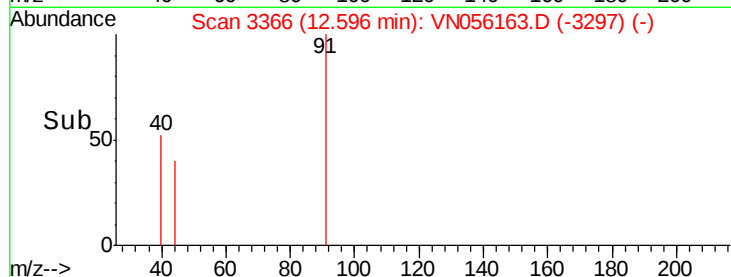
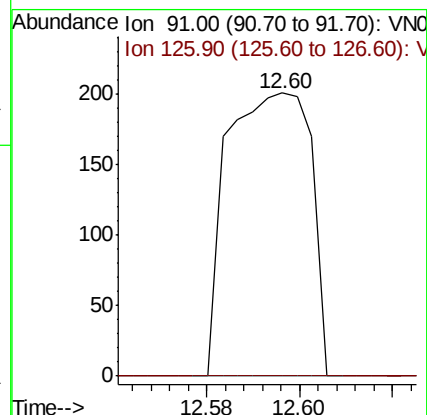
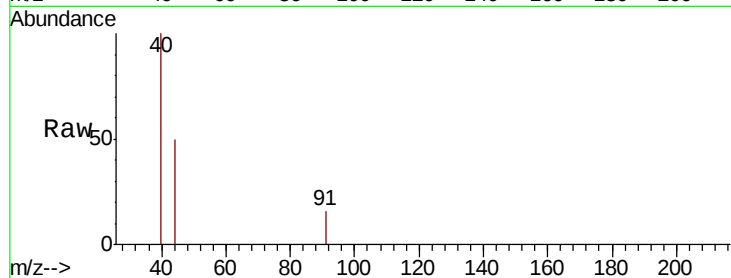
ClientSampled :

Tot Ion: 91 Resp: 252

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 114.827 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056163.D

Acq: 10 Jun 2019 12:27

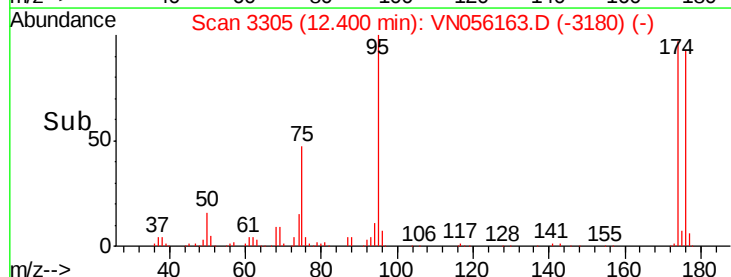
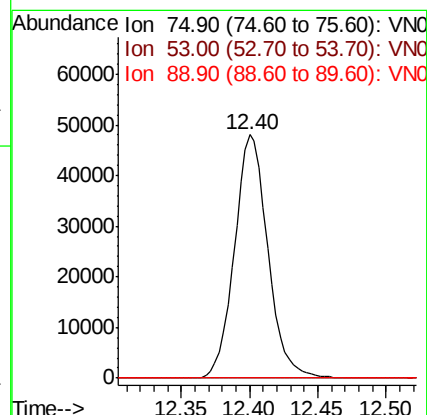
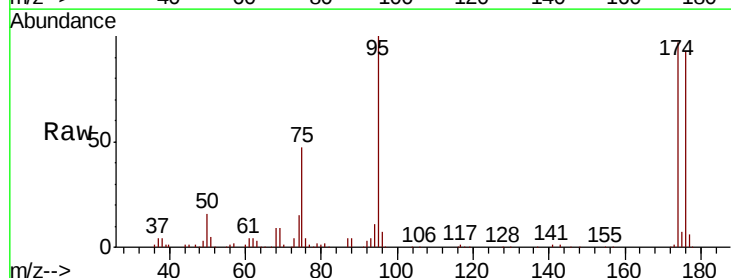
Tgt Ion: 75 Resp: 81607

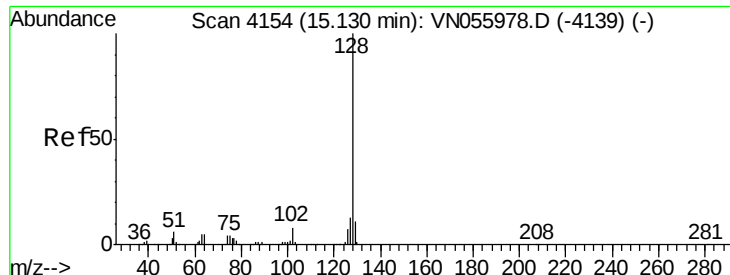
Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

89 0.0 36.9 55.3#





#95

Naphthalene

Concen: 3.910 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

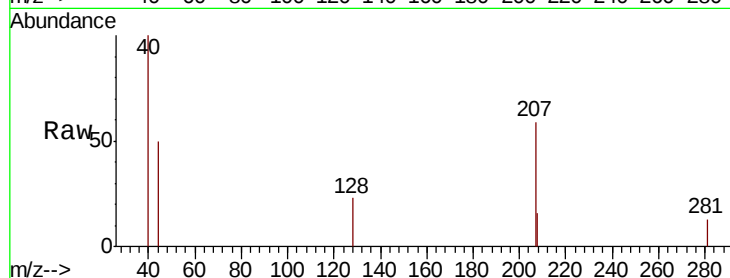
Lab File: VN056163.D

Acq: 10 Jun 2019 12:27

Instrument :

MSVOA_N

ClientSampleId :



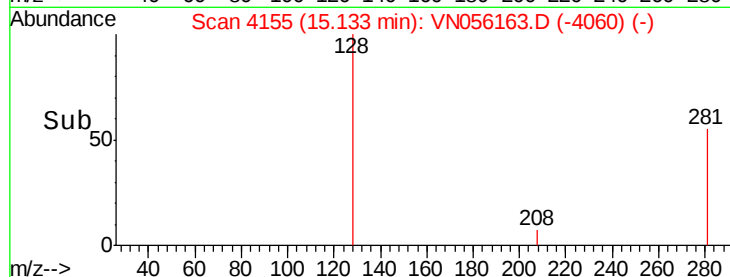
Tot Ion:128 Resp: 393

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 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

