

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061219\
 Data File : VN056259.D
 Acq On : 12 Jun 2019 19:24
 Operator : JC/SP
 Sample : K3315-14DL 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 13 04:35:10 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

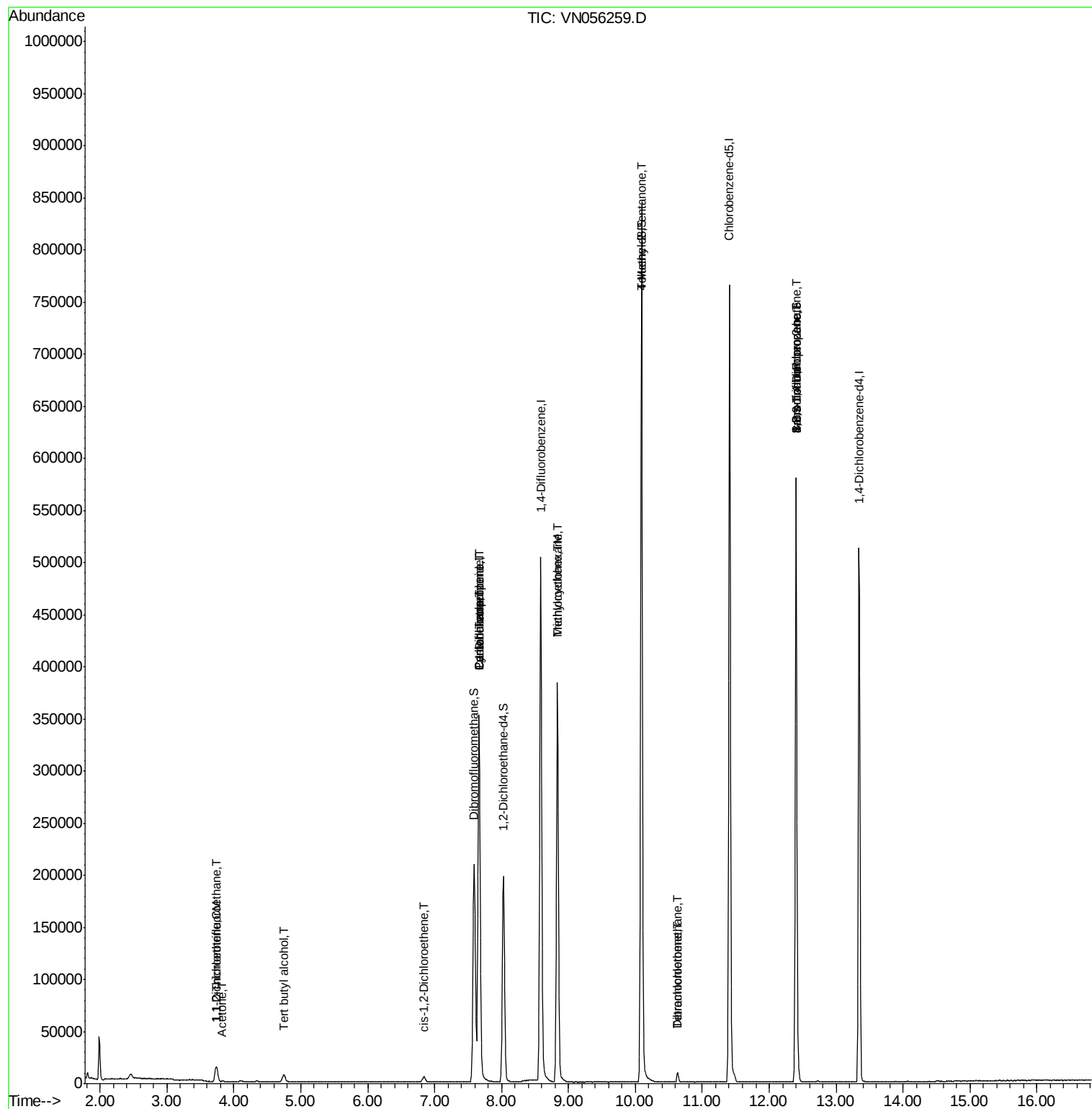
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	338199	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	507663	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	501402	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	161966	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	166478	49.58	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.16%	
35) Dibromofluoromethane	7.59	113	159922	51.34	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.68%	
50) Toluene-d8	10.09	98	626030	52.23	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.46%	
62) 4-Bromofluorobenzene	12.40	95	198127	48.61	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.22%	
Target Compounds						
					Qvalue	
9) 1,1,2-Trichlorotrifluoroet	3.73	101	8208	2.878	ug/l	93
11) Tert butyl alcohol	4.75	59	6363	10.889	ug/l #	74
12) 1,1-Dichloroethene	3.73	96	2434	0.857	ug/l	96
16) Acetone	3.82	43	1103	0.687	ug/l #	41
18) Methyl Acetate	4.34	43	1208	Below Cal	#	67
27) cis-1,2-Dichloroethene	6.83	96	2210	0.618	ug/l	94
31) Cyclohexane	7.66	56	4477	0.840	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	18716	4.288	ug/l #	49
38) Carbon Tetrachloride	7.66	117	26700	6.634	ug/l #	15
39) Methylcyclohexane	8.84	83	1690	0.311	ug/l #	1
44) Trichloroethene	8.83	130	161222	42.319	ug/l	96
51) 4-Methyl-2-Pentanone	10.09	43	2511	0.638	ug/l #	1
60) Dibromochloromethane	10.63	129	2243	3.044	ug/l #	11
64) Tetrachloroethene	10.63	164	2619	0.603	ug/l	88
71) Bromoform	12.40	173	1532	3.243	ug/l #	1
73) Isopropylbenzene	12.40	105	196	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	90065	30.221	ug/l #	100
79) 2-Chlorotoluene	12.40	91	372	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	90065	100.641	ug/l #	15

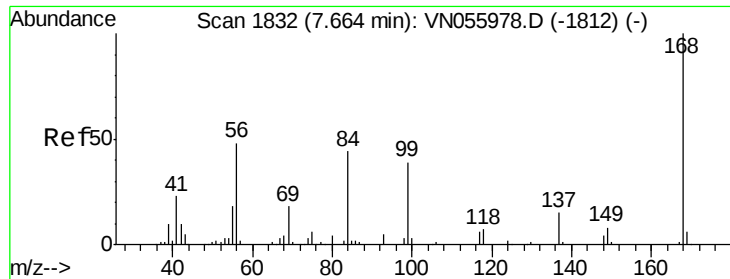
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056259.D

Acq: 12 Jun 2019 19:24

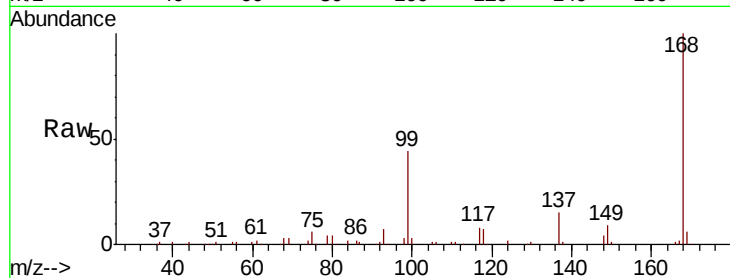
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 338199

Ion Ratio Lower Upper

168 100

99 44.2 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

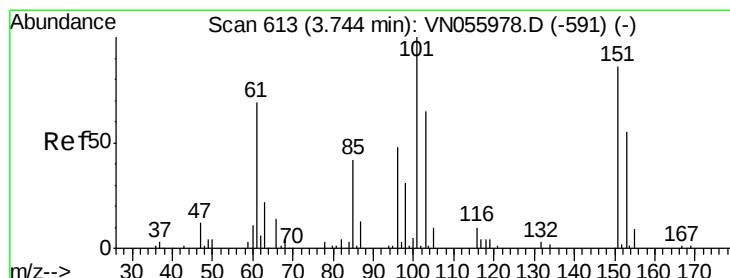
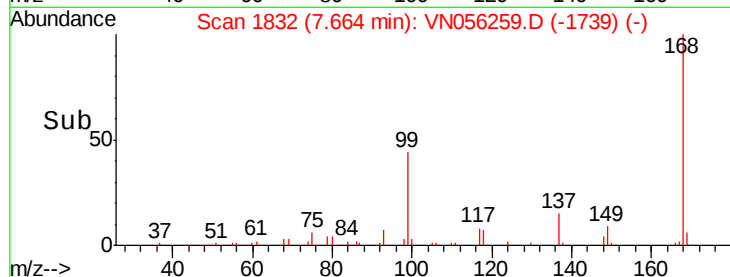
150000

100000

50000

0

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.878 ug/l

RT: 3.73 min Scan# 610

Delta R.T. -0.01 min

Lab File: VN056259.D

Acq: 12 Jun 2019 19:24

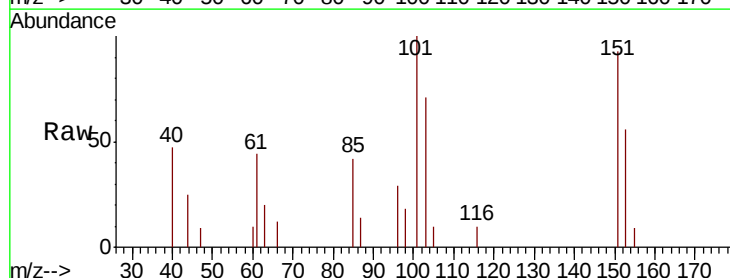
Tgt Ion:101 Resp: 8208

Ion Ratio Lower Upper

101 100

85 40.0 33.4 50.2

151 95.5 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

3.73

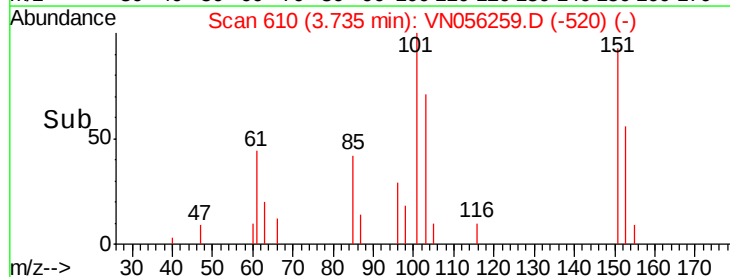
3000

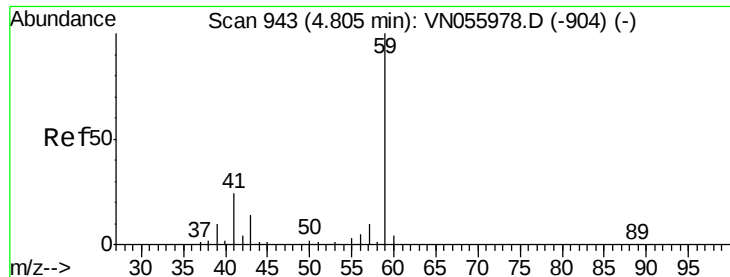
2000

1000

0

Time-->

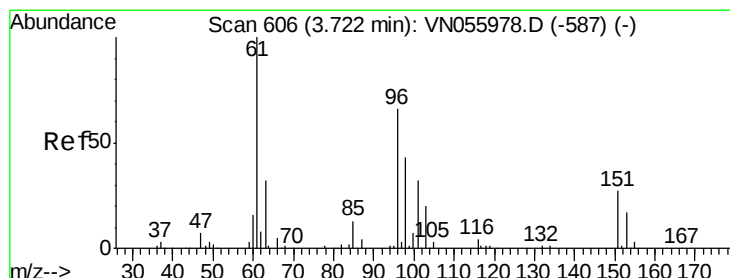
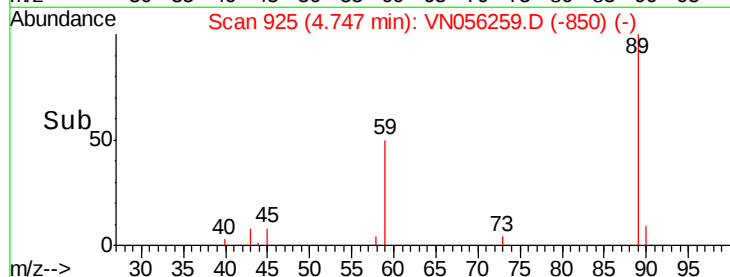
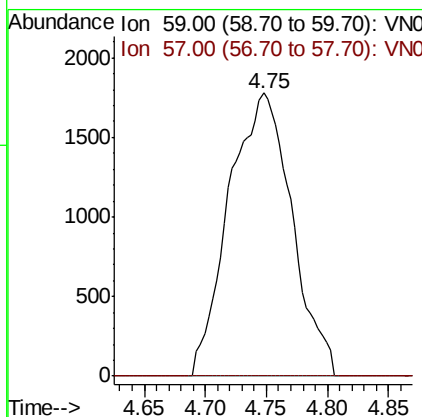
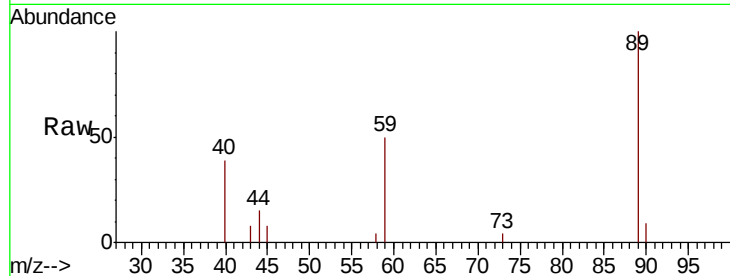




#11
Tert butvl alcohol
Concen: 10.889 ug/l
RT: 4.75 min Scan# 925
Delta R.T. -0.06 min
Lab File: VN056259.D
Acq: 12 Jun 2019 19:24

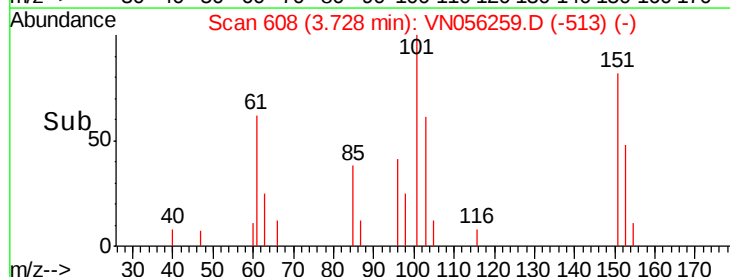
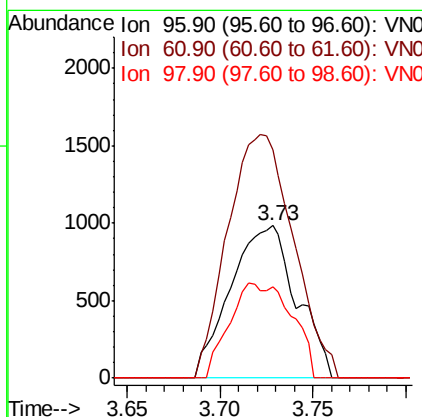
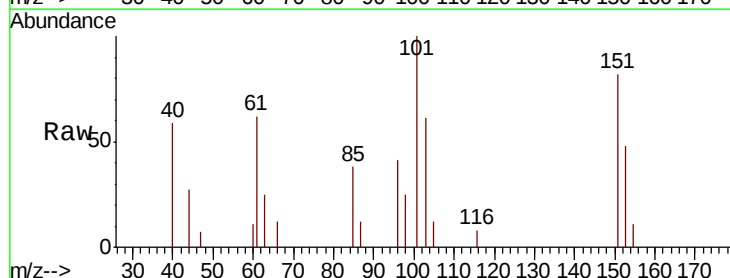
Instrument :
MSVOA_N
ClientSampled :

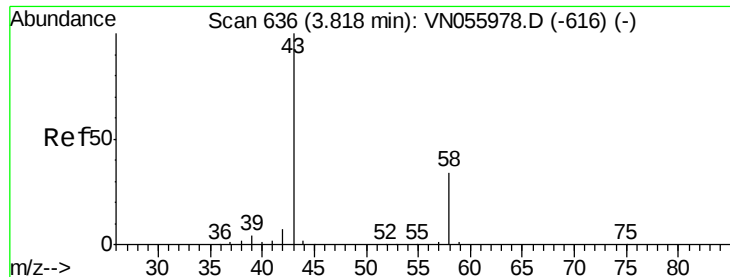
Tot Ion: 59 Resp: 6363
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.6#



#12
1,1-Dichloroethene
Concen: 0.857 ug/l
RT: 3.73 min Scan# 608
Delta R.T. 0.01 min
Lab File: VN056259.D
Acq: 12 Jun 2019 19:24

Tgt Ion: 96 Resp: 2434
Ion Ratio Lower Upper
96 100
61 149.7 123.2 184.8
98 59.9 50.4 75.6





#16

Acetone

Concen: 0.687 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN056259.D

Acq: 12 Jun 2019 19:24

Instrument :

MSVOA_N

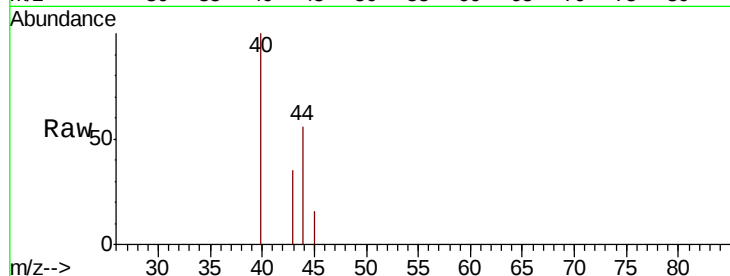
ClientSampled :

Tot Ion: 43 Resp: 1103

Ion Ratio Lower Upper

43 100

58 0.0 26.6 39.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

400

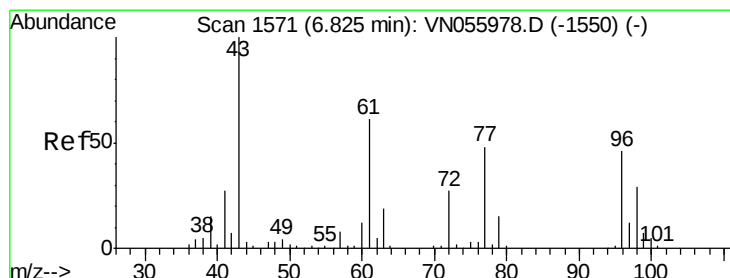
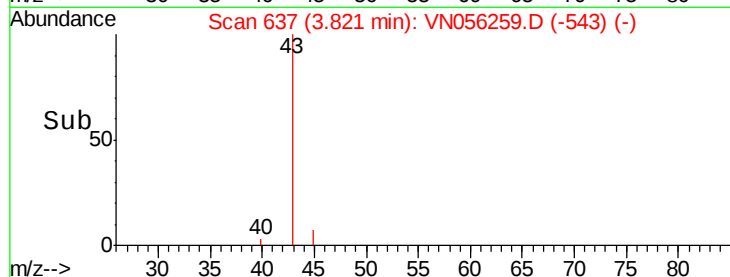
300

200

100

0

Time-->



#27

cis-1,2-Dichloroethene

Concen: 0.618 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.01 min

Lab File: VN056259.D

Acq: 12 Jun 2019 19:24

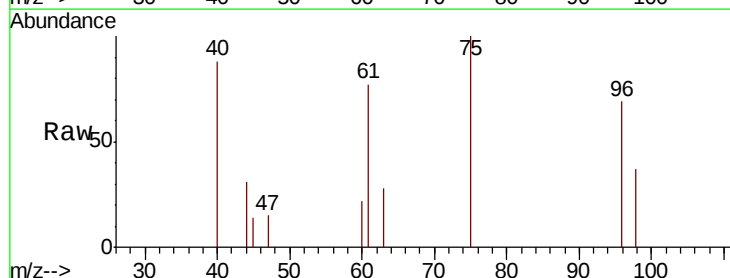
Tgt Ion: 96 Resp: 2210

Ion Ratio Lower Upper

96 100

61 133.5 0.0 275.8

98 55.4 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

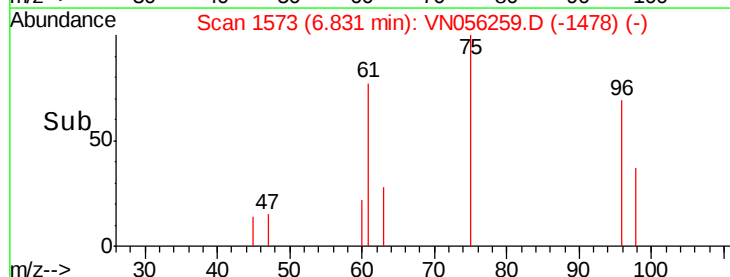
6.83

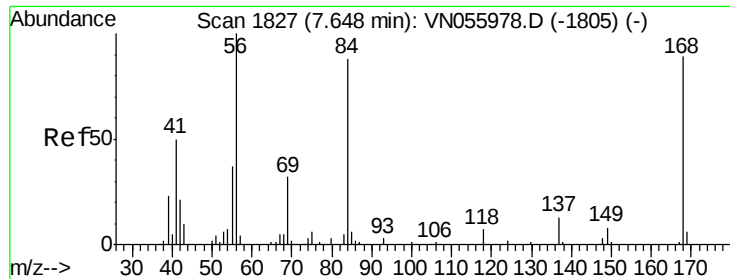
1000

500

0

Time-->

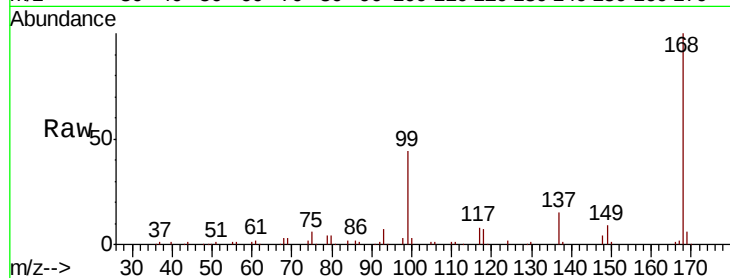




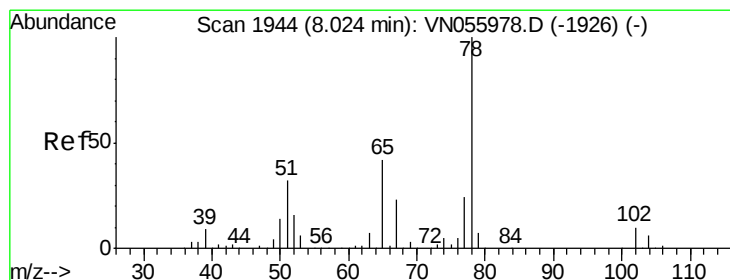
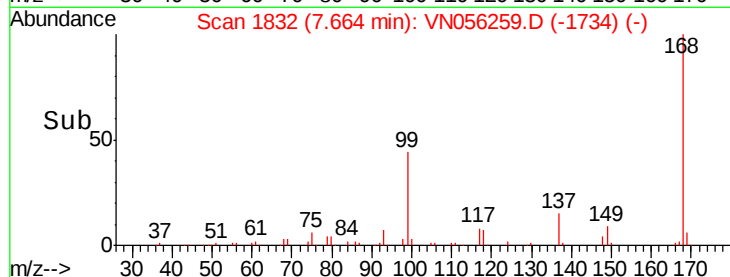
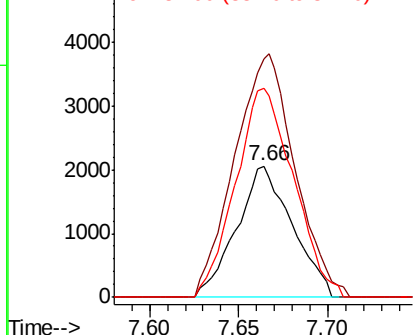
#31
Cyclohexane
Concen: 0.840 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.02 min
Lab File: VN056259.D
Acq: 12 Jun 2019 19:24

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 4477
Ion Ratio Lower Upper
56 100
69 181.4 25.6 38.4#
84 159.6 67.4 101.0#

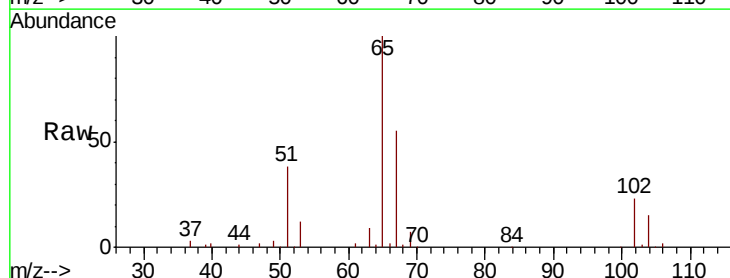


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

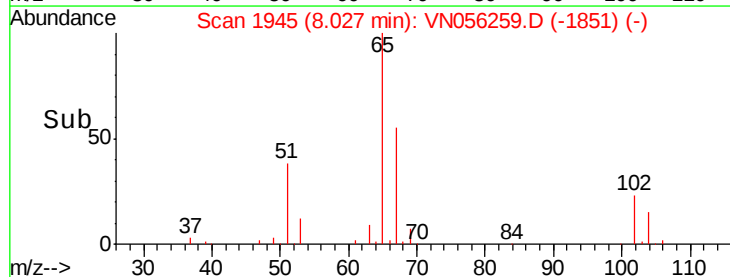
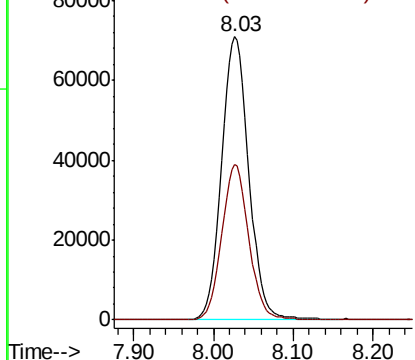


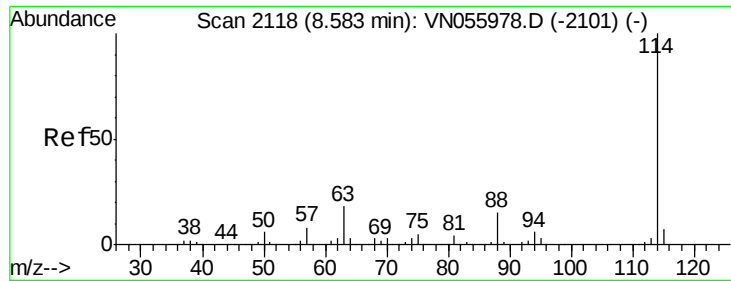
#33
1,2-Dichloroethane-d4
Concen: 49.576 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN056259.D
Acq: 12 Jun 2019 19:24

Tgt Ion: 65 Resp: 166478
Ion Ratio Lower Upper
65 100
67 54.5 0.0 109.2



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

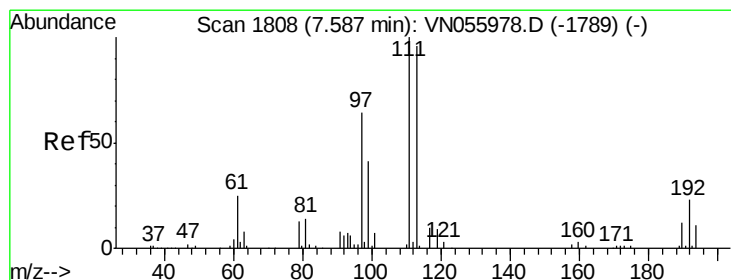
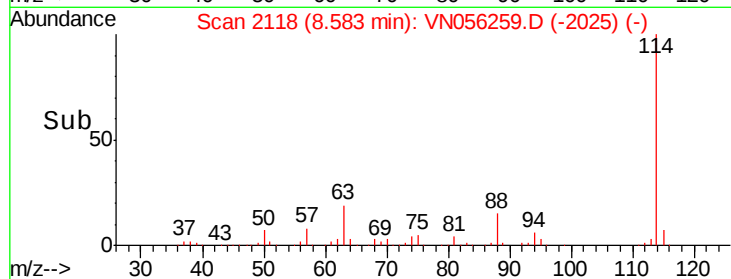
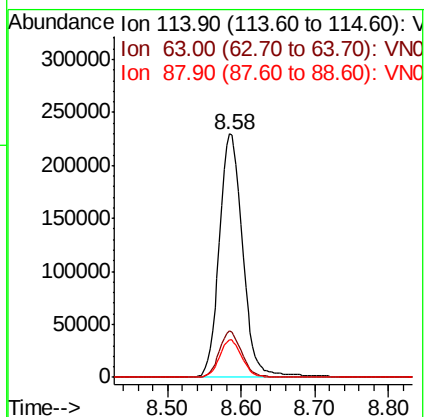
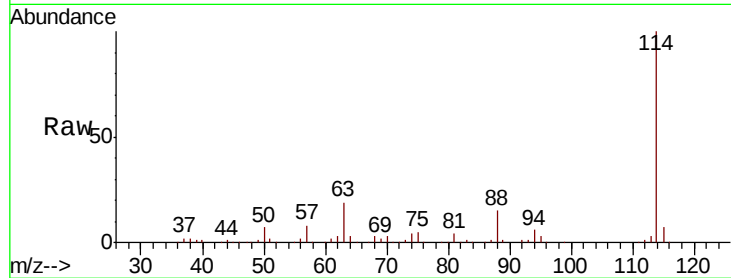




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056259.D
 Acq: 12 Jun 2019 19:24

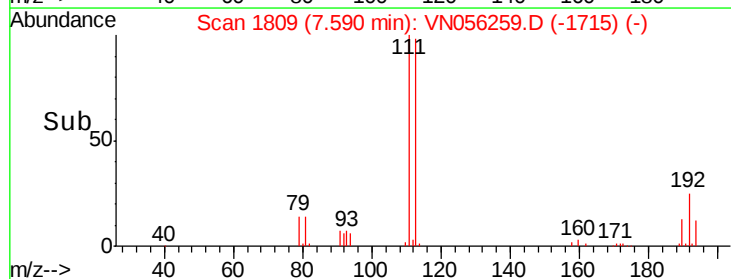
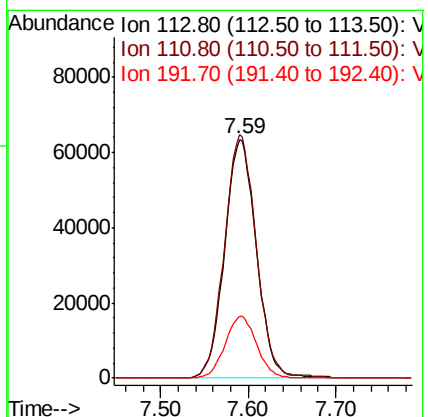
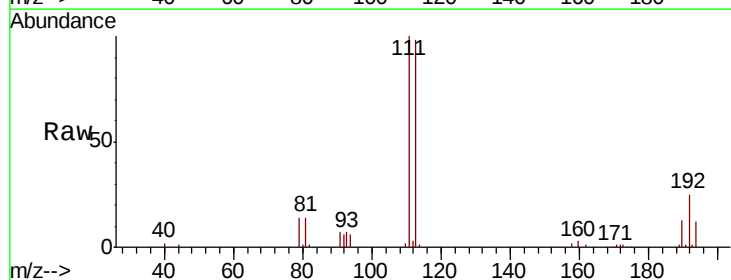
Instrument :
 MSVOA_N
 ClientSampleId :

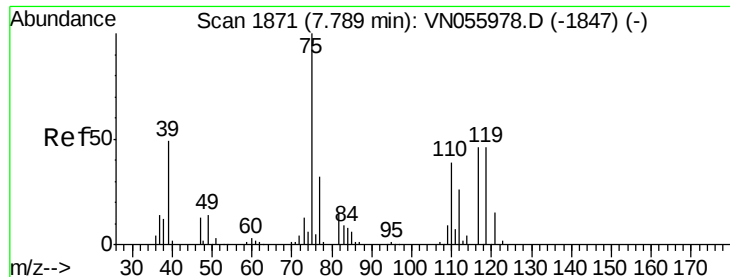
Tot Ion:114 Resp: 507663
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 39.2
 88 15.2 0.0 31.0



#35
 Dibromofluoromethane
 Concen: 51.345 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056259.D
 Acq: 12 Jun 2019 19:24

Tgt Ion:113 Resp: 159922
 Ion Ratio Lower Upper
 113 100
 111 102.3 81.9 122.9
 192 25.7 19.5 29.3

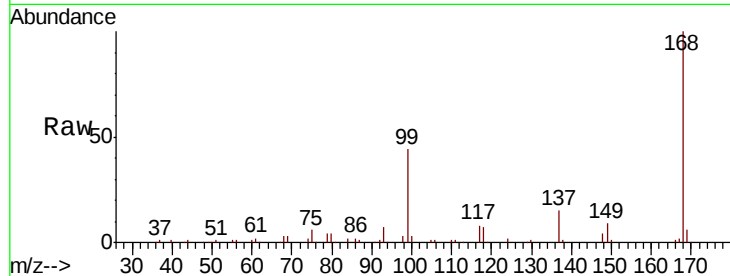




#36
 1,1-Dichloropropene
 Concen: 4.288 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056259.D
 Acq: 12 Jun 2019 19:24

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	75	Resp	18716
Ion Ratio	100	Lower	Upper
75	100		
110	10.1	19.0	57.0#
77	0.0	25.1	37.7#

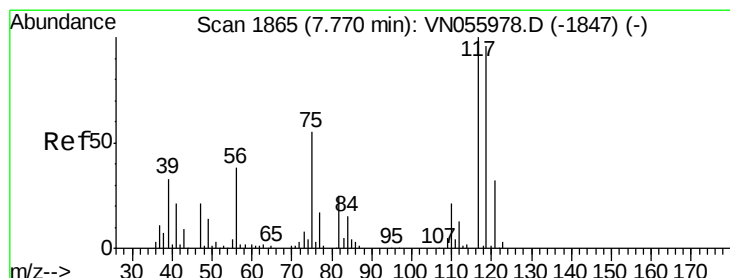
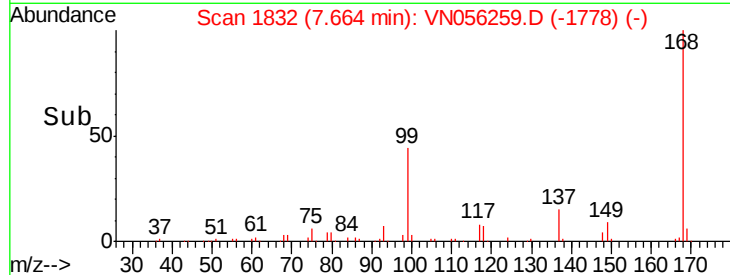
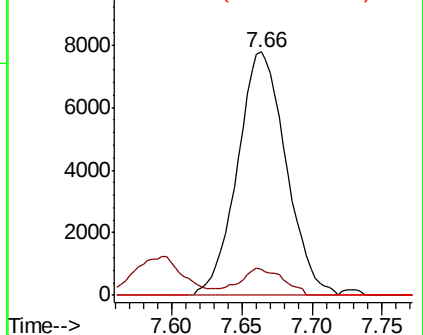


Abundance

Ion 74.90 (74.60 to 75.60): VN0

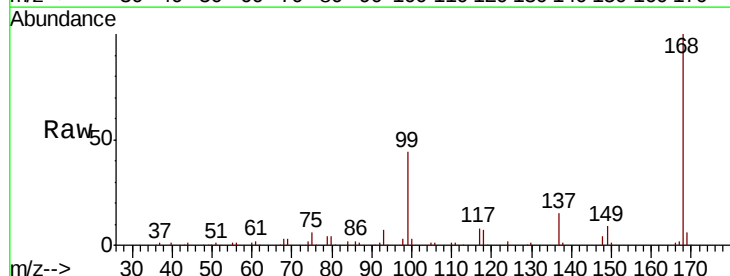
Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0



#38
 Carbon Tetrachloride
 Concen: 6.634 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN056259.D
 Acq: 12 Jun 2019 19:24

Tgt Ion	117	Resp	26700
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	5.1	79.0	118.6#
121	0.0	24.7	37.1#

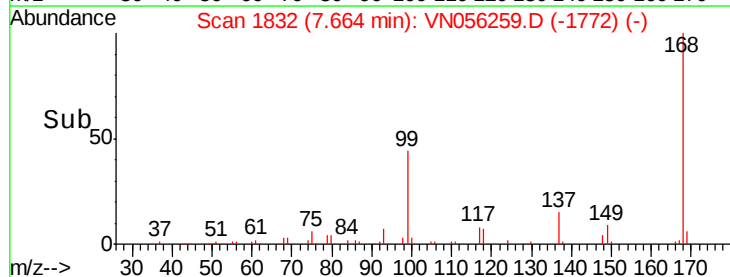
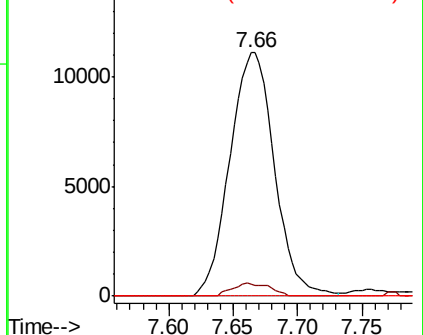


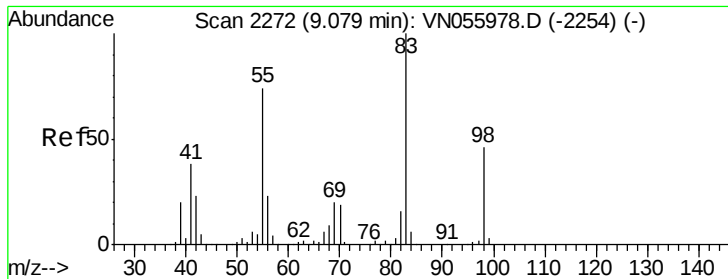
Abundance

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

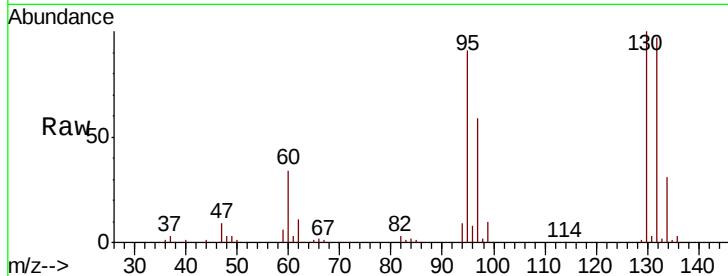




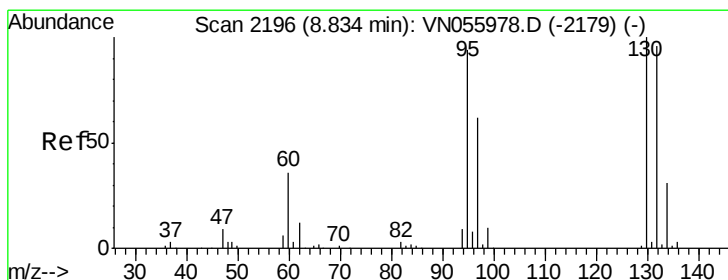
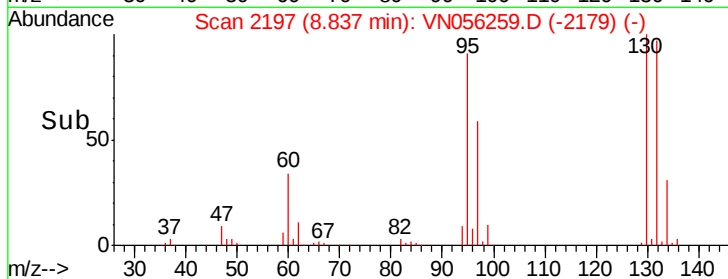
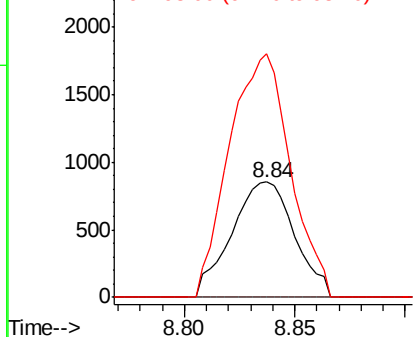
#39
Methvlcvclohexane
Concen: 0.311 ug/l
RT: 8.84 min Scan# 2197
Delta R.T. -0.24 min
Lab File: VN056259.D
Acq: 12 Jun 2019 19:24

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 83 Resp: 1690
Ion Ratio Lower Upper
83 100
55 0.0 59.3 88.9#
98 211.5 36.6 54.8#

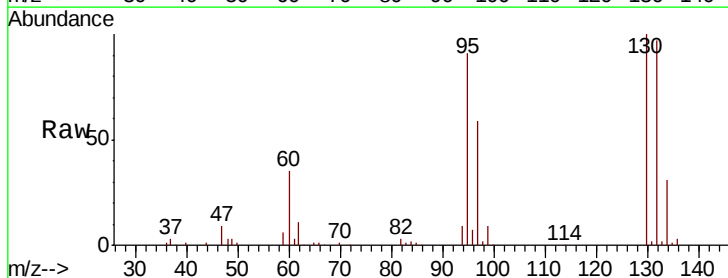


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

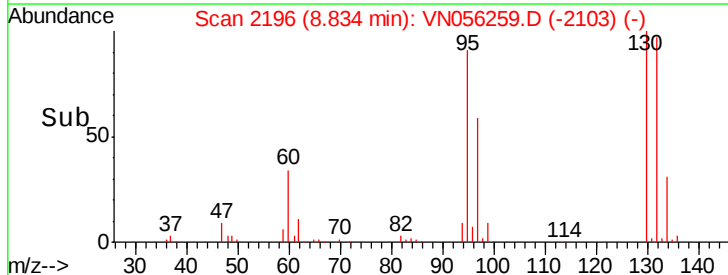
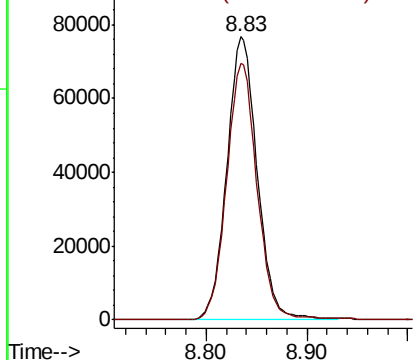


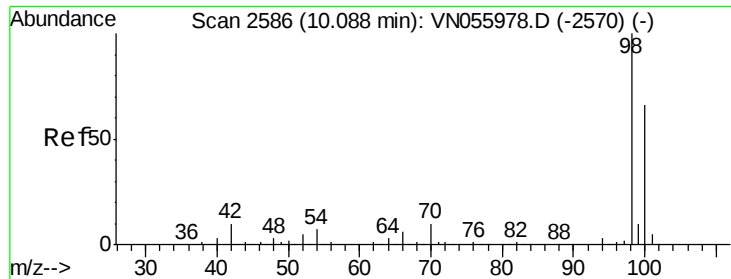
#44
Trichloroethene
Concen: 42.319 ug/l
RT: 8.83 min Scan# 2196
Delta R.T. 0.00 min
Lab File: VN056259.D
Acq: 12 Jun 2019 19:24

Tgt Ion:130 Resp: 161222
Ion Ratio Lower Upper
130 100
95 90.5 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VN0





#50

Toluene-d8

Concen: 52.233 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056259.D

Acq: 12 Jun 2019 19:24

Instrument :

MSVOA_N

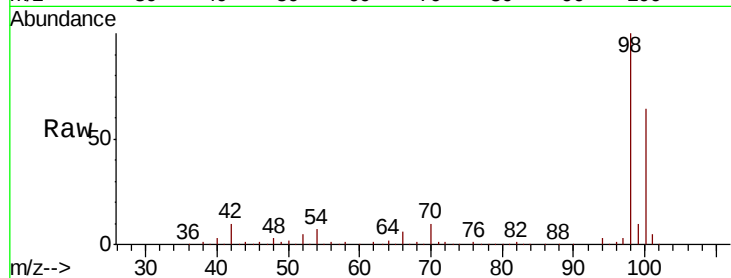
ClientSampleId :

Tot Ion: 98 Resp: 626030

Ion Ratio Lower Upper

98 100

100 63.7 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055978.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN055978.D (-2570) (-)

10.09

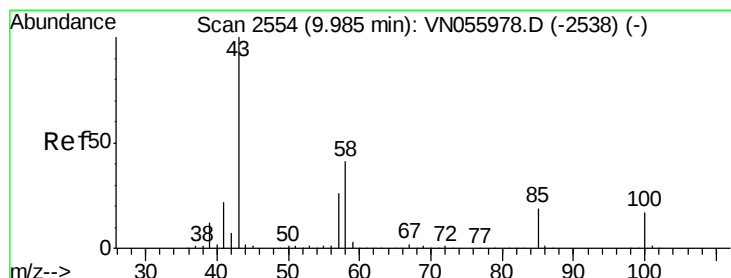
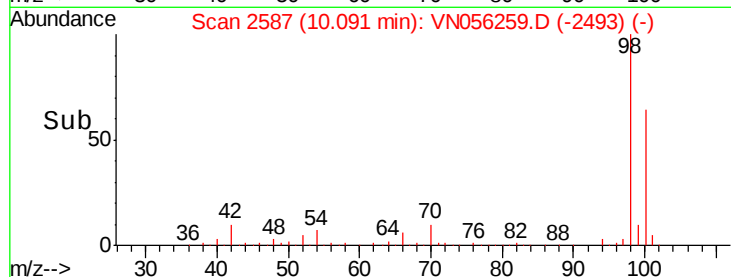
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.638 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.11 min

Lab File: VN056259.D

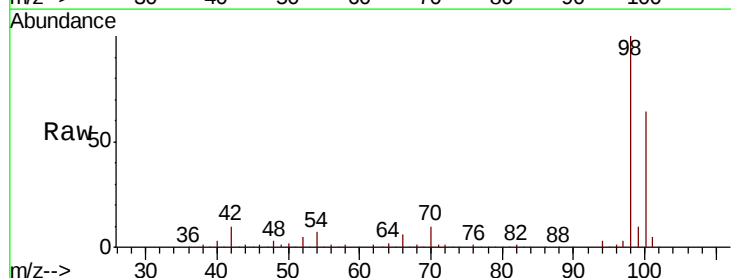
Acq: 12 Jun 2019 19:24

Tgt Ion: 43 Resp: 2511

Ion Ratio Lower Upper

43 100

58 163.0 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-2538) (-)

Ion 58.00 (57.70 to 58.70): VN055978.D (-2538) (-)

10.09

2500

2000

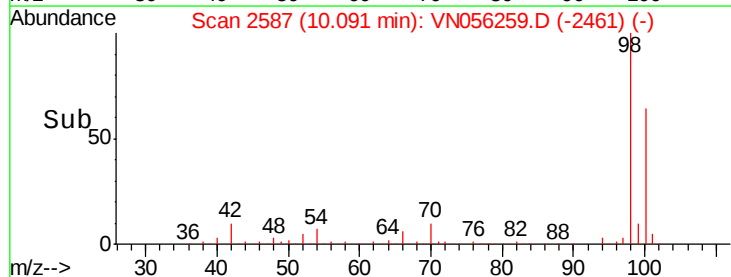
1500

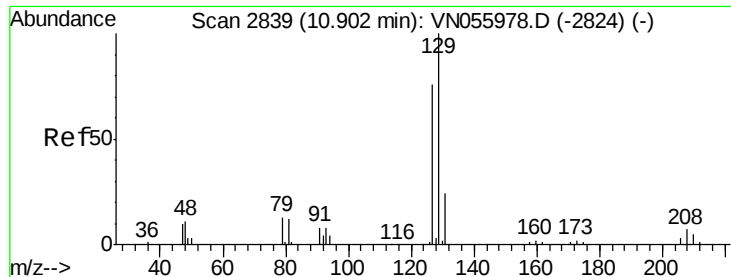
1000

500

0

Time-->

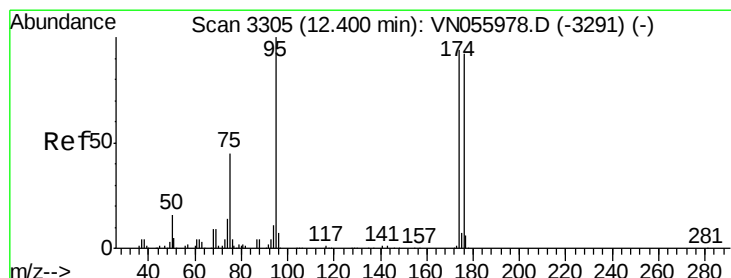
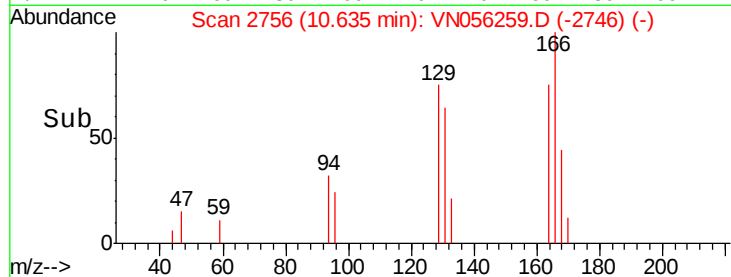
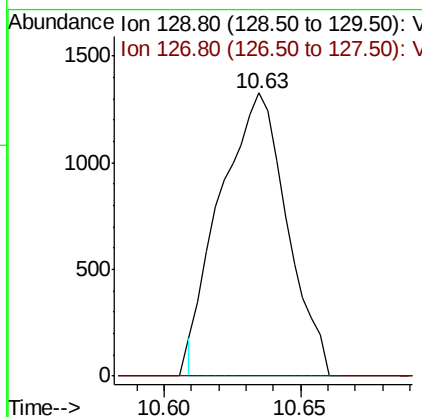
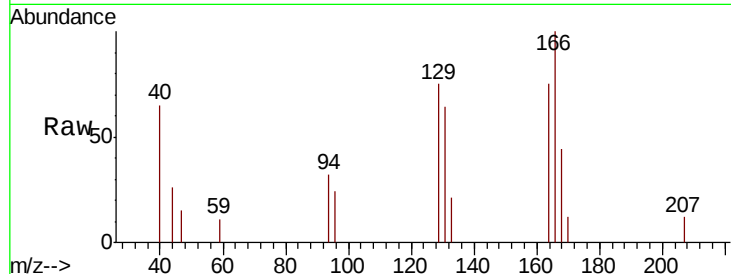




#60
 Dibromochloromethane
 Concen: 3.044 ug/l
 RT: 10.63 min Scan# 2756
 Delta R.T. -0.27 min
 Lab File: VN056259.D
 Acq: 12 Jun 2019 19:24

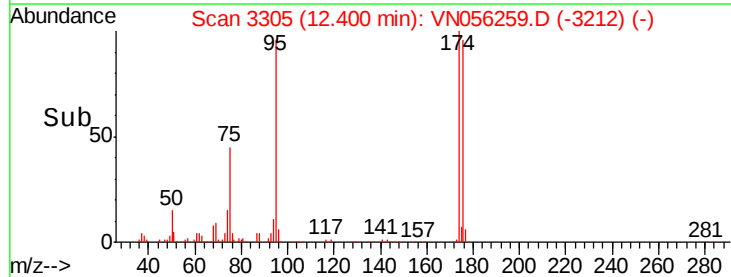
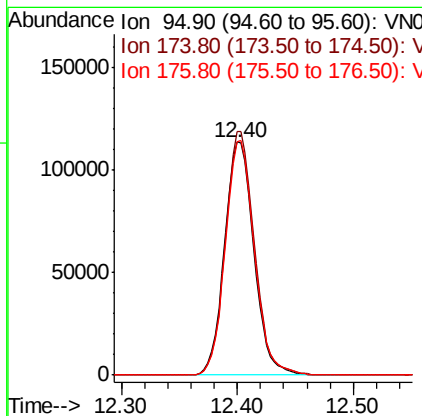
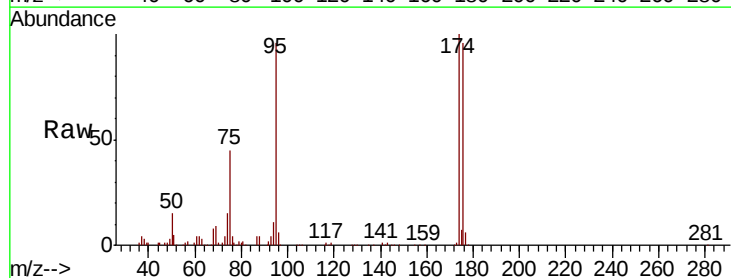
Instrument :
 MSVOA_N
 ClientSampleId :

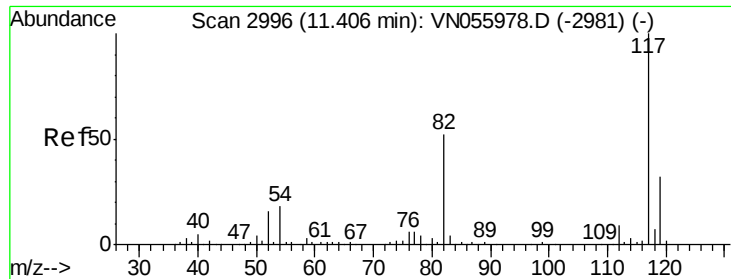
Tot Ion:129 Resp: 2243
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.1 114.3#



#62
 4-Bromofluorobenzene
 Concen: 48.609 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN056259.D
 Acq: 12 Jun 2019 19:24

Tgt Ion: 95 Resp: 198127
 Ion Ratio Lower Upper
 95 100
 174 103.4 0.0 191.0
 176 99.3 0.0 185.2

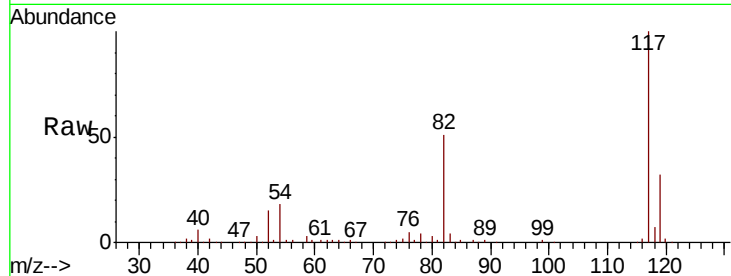




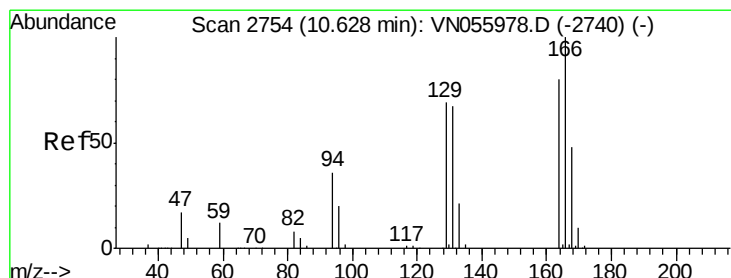
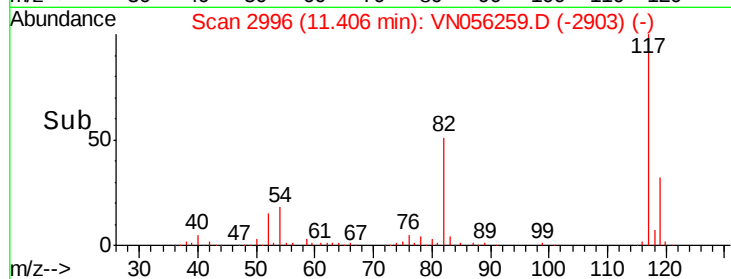
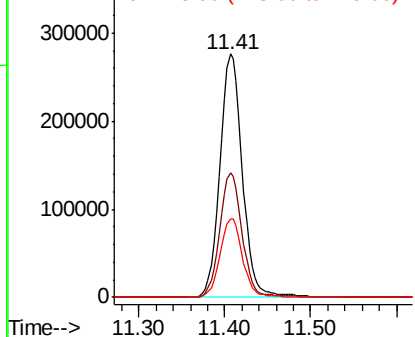
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056259.D
Acq: 12 Jun 2019 19:24

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 501402
Ion Ratio Lower Upper
117 100
82 51.2 41.8 62.8
119 32.1 25.4 38.0

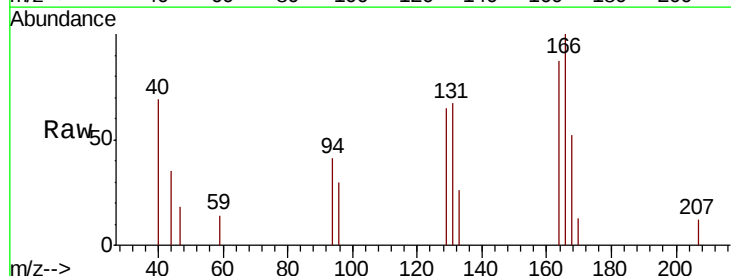


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

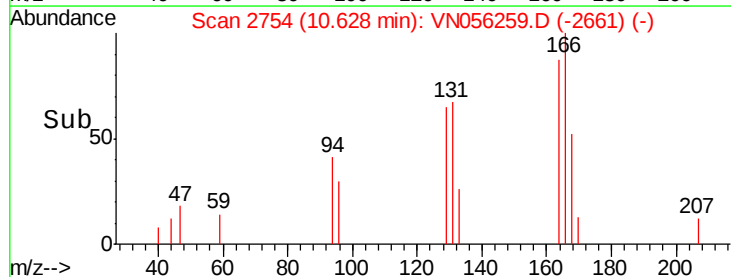
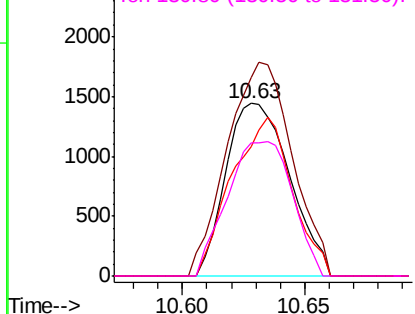


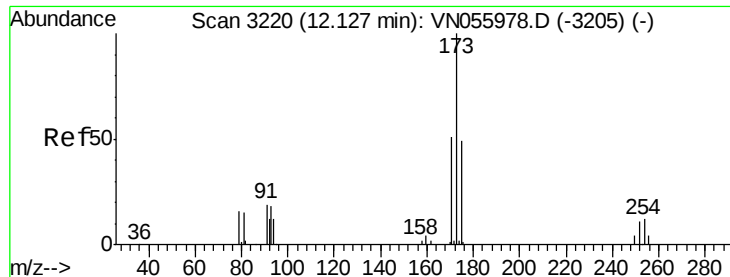
#64
Tetrachloroethene
Concen: 0.603 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN056259.D
Acq: 12 Jun 2019 19:24

Tgt Ion:164 Resp: 2619
Ion Ratio Lower Upper
164 100
166 115.0 103.0 154.6
129 74.9 70.6 105.8
131 76.9 68.6 102.8



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#71

Bromoform

Concen: 3.243 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN056259.D

Acq: 12 Jun 2019 19:24

Instrument :

MSVOA_N

ClientSampled :

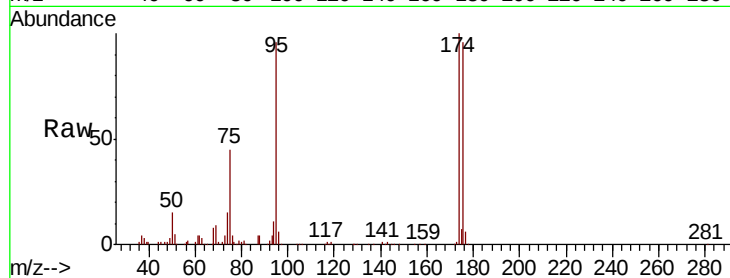
Tot Ion:173 Resp: 1532

Ion Ratio Lower Upper

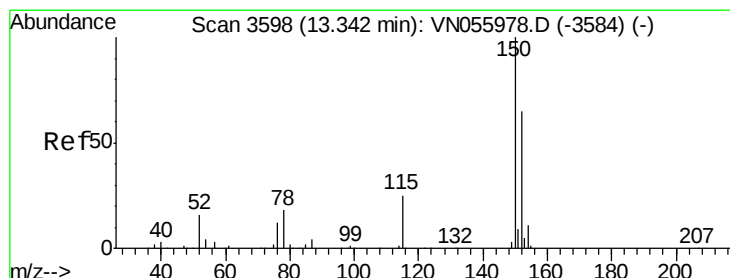
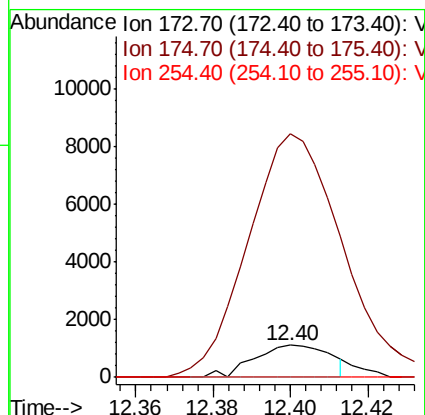
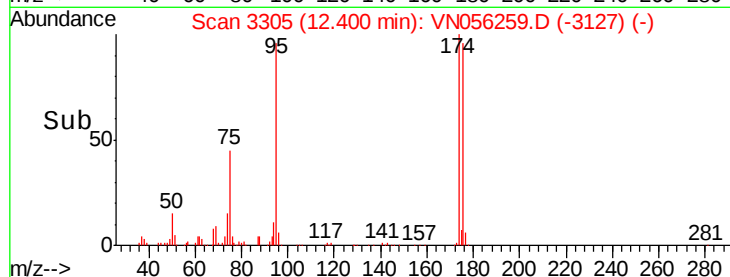
173 100

175 807.2 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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN056259.D

Acq: 12 Jun 2019 19:24

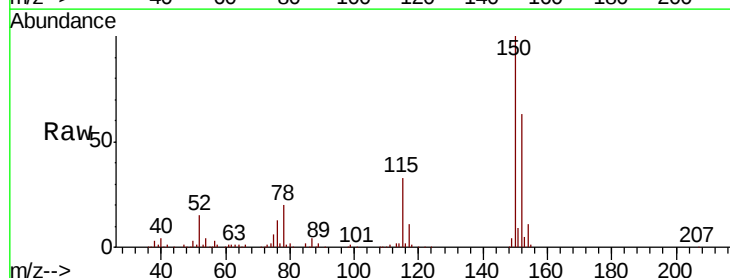
Tgt Ion:152 Resp: 161966

Ion Ratio Lower Upper

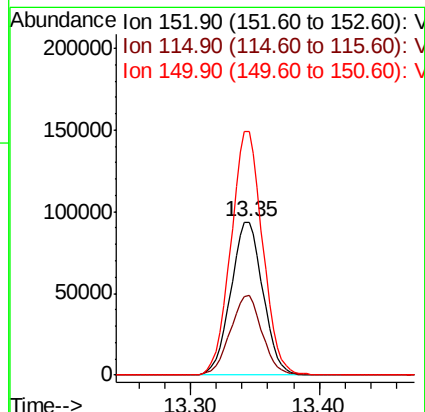
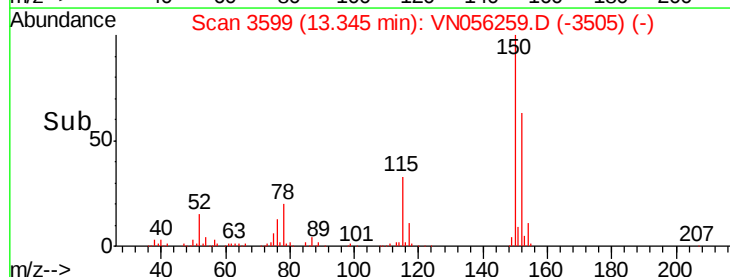
152 100

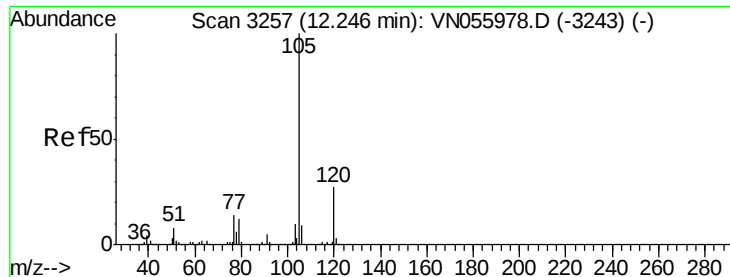
115 51.5 27.0 81.0

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





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.40 min Scan# 3305

Delta R.T. 0.15 min

Lab File: VN056259.D

Acq: 12 Jun 2019 19:24

Instrument :

MSVOA_N

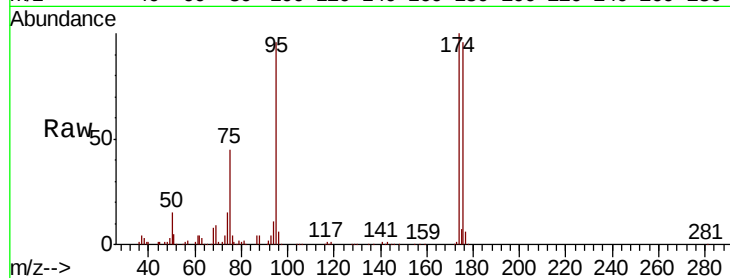
ClientSampled :

Tot Ion: 105 Resp: 196

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

250

200

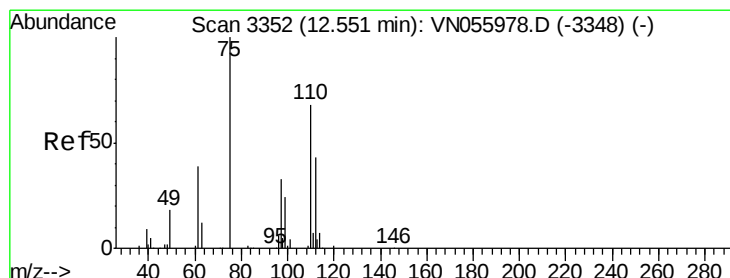
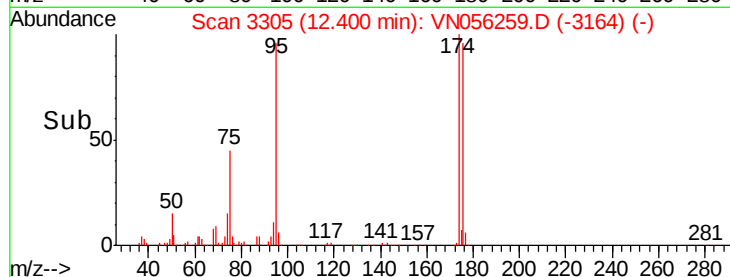
150

100

50

0

Time--> 12.38 12.40 12.42



#76

1,2,3-Trichloropropane

Concen: 30.221 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056259.D

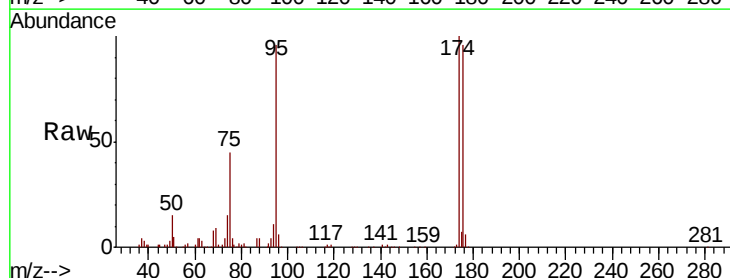
Acq: 12 Jun 2019 19:24

Tgt Ion: 75 Resp: 90065

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

60000

50000

40000

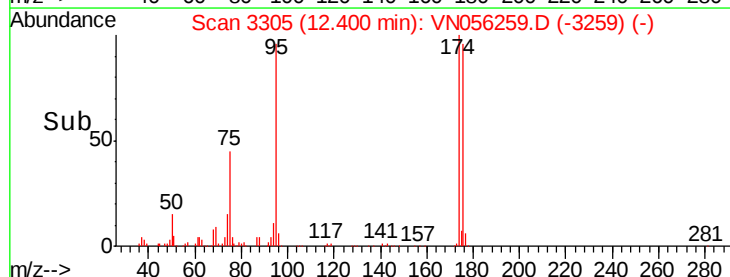
30000

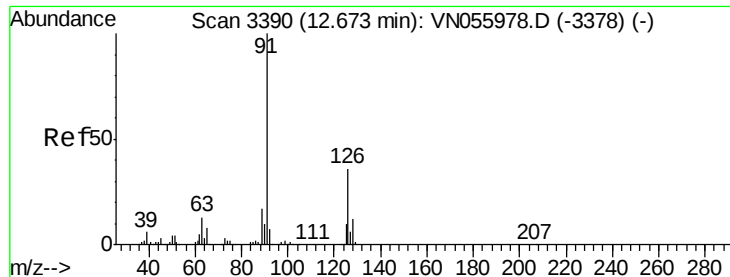
20000

10000

0

Time--> 12.40 12.50





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.40 min Scan# 3305

Delta R.T. -0.27 min

Lab File: VN056259.D

Acq: 12 Jun 2019 19:24

Instrument :

MSVOA_N

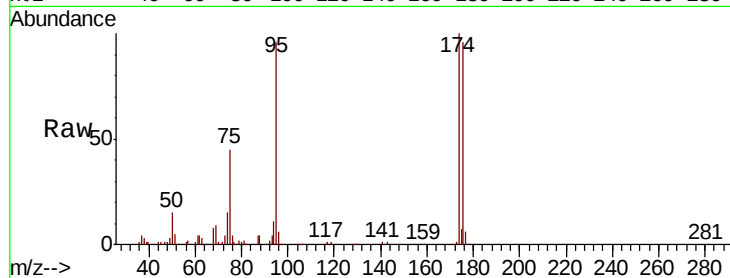
ClientSampleId :

Tot Ion: 91 Resp: 372

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

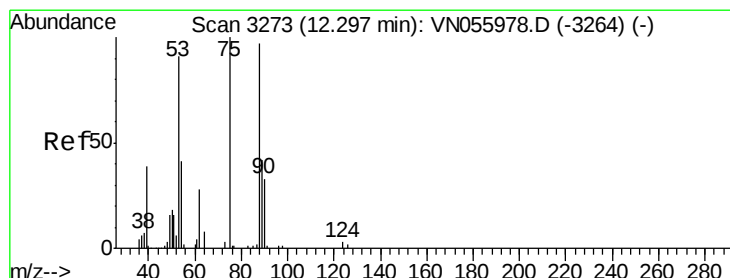
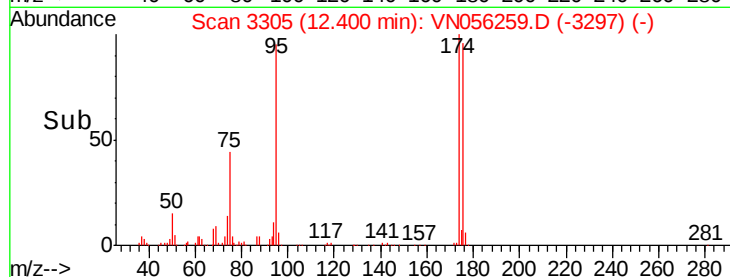
300

200

100

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 100.641 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056259.D

Acq: 12 Jun 2019 19:24

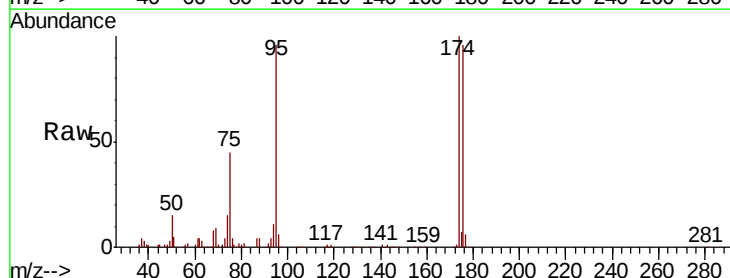
Tgt Ion: 75 Resp: 90065

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

60000

40000

20000

0

Time-->

