

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061219\
 Data File : VN056257.D
 Acq On : 12 Jun 2019 18:37
 Operator : JC/SP
 Sample : K3315-13DL 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 13 04:34:44 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

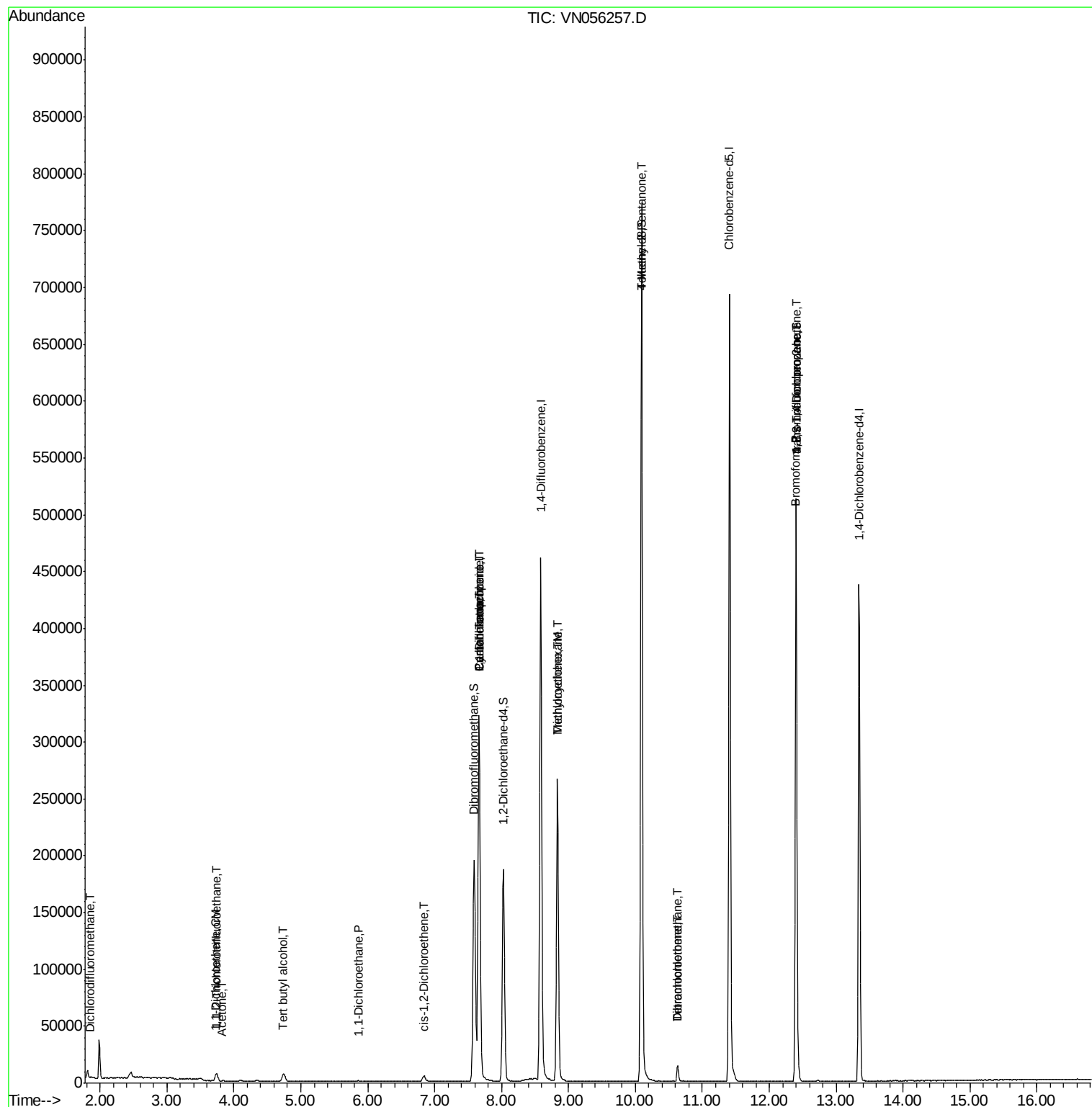
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	306422	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	459041	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	450562	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	138812	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	155990	51.27	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.54%	
35) Dibromofluoromethane	7.59	113	148356	52.68	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.36%	
50) Toluene-d8	10.09	98	575907	53.14	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.28%	
62) 4-Bromofluorobenzene	12.40	95	177642	48.20	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.40%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.85	85	61	0.373	ug/l #	42
9) 1,1,2-Trichlorotrifluoroet	3.74	101	4204	1.627	ug/l #	77
11) Tert butyl alcohol	4.74	59	6292	11.884	ug/l #	74
12) 1,1-Dichloroethene	3.72	96	767	0.298	ug/l #	84
16) Acetone	3.82	43	744	0.511	ug/l #	41
24) 1,1-Dichloroethane	5.85	63	979	0.202	ug/l #	83
27) cis-1,2-Dichloroethene	6.82	96	1156	0.357	ug/l	28
31) Cyclohexane	7.66	56	3856	0.799	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	16932	4.290	ug/l #	47
38) Carbon Tetrachloride	7.67	117	24217	6.655	ug/l #	15
39) Methylcyclohexane	8.84	83	1161	0.236	ug/l #	1
44) Trichloroethene	8.83	130	111532	32.377	ug/l	98
51) 4-Methyl-2-Pentanone	10.09	43	2080	0.584	ug/l #	1
60) Dibromochloromethane	10.63	129	2938	3.309	ug/l #	11
64) Tetrachloroethene	10.63	164	3776	0.968	ug/l	89
71) Bromoform	12.39	173	104	2.780	ug/l #	29
76) 1,2,3-Trichloropropane	12.40	75	82574	32.329	ug/l #	100
79) 2-Chlorotoluene	12.40	91	474	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	82574	107.661	ug/l #	15

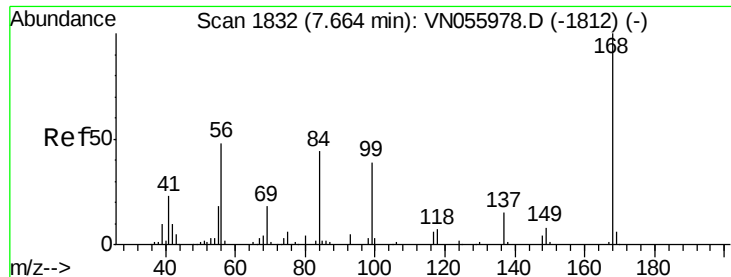
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jun 04 11:02:09 2019
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: VN056257.D

Acq: 12 Jun 2019 18:37

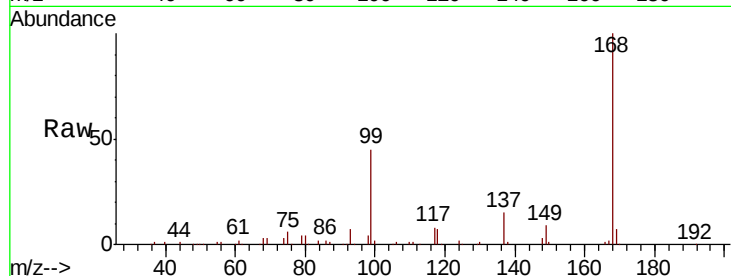
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 306422

Ion Ratio Lower Upper

168 100

99 45.3 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): VN055978.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN055978.D (-1812) (-)

7.66

150000

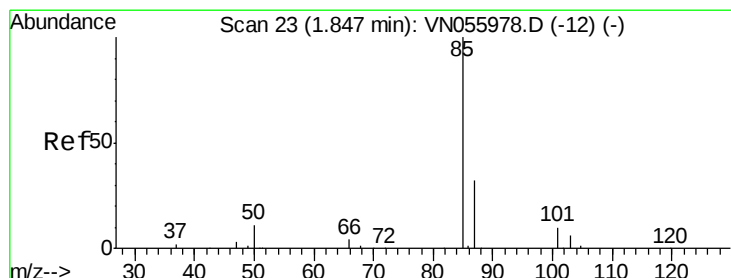
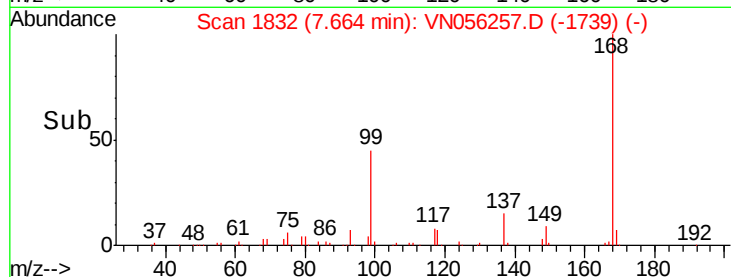
100000

50000

0

7.60 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 0.373 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN056257.D

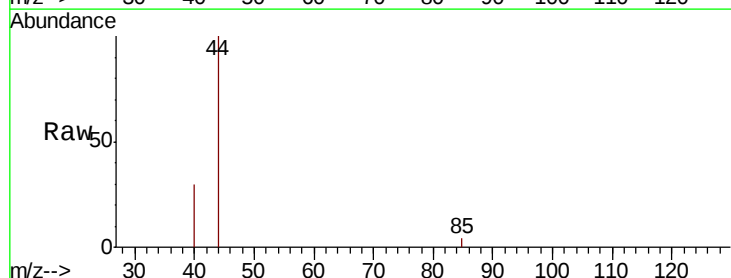
Acq: 12 Jun 2019 18:37

Tgt Ion: 85 Resp: 61

Ion Ratio Lower Upper

85 100

87 0.0 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VN055978.D (-12) (-)

Ion 86.90 (86.60 to 87.60): VN055978.D (-12) (-)

1.85

150

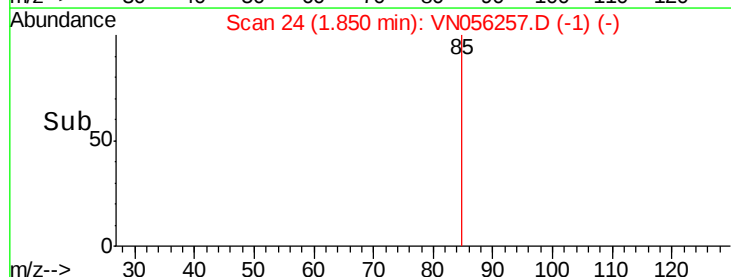
100

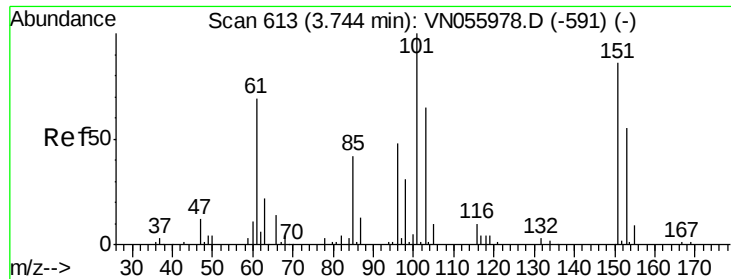
50

0

1.84 1.85 1.86

Time-->

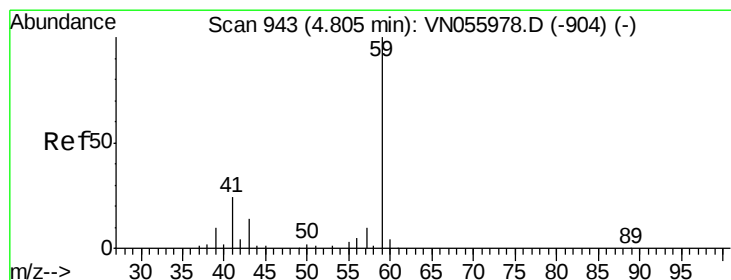
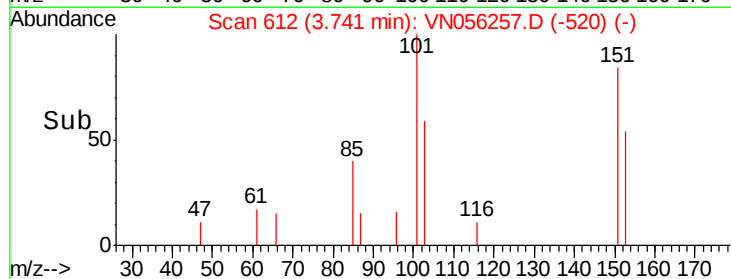
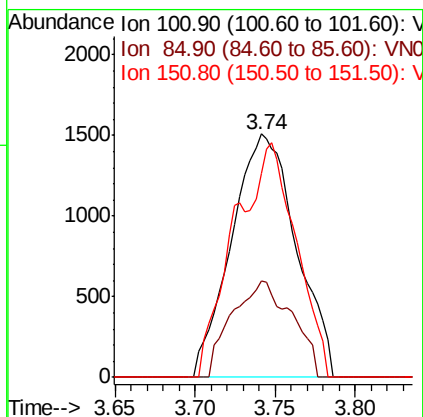
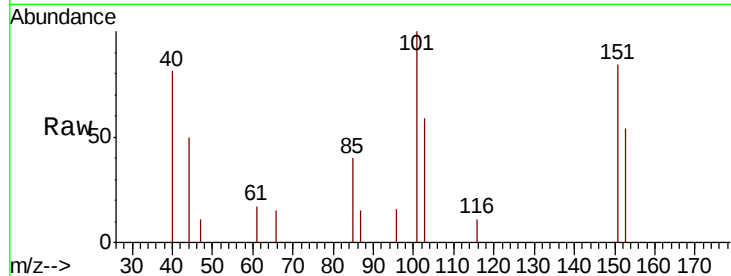




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.627 ug/l
 RT: 3.74 min Scan# 612
 Delta R.T. -0.00 min
 Lab File: VN056257.D
 Acq: 12 Jun 2019 18:37

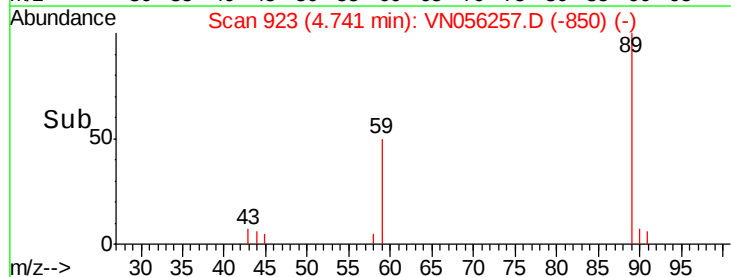
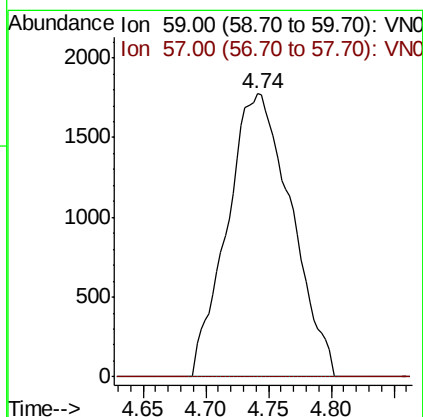
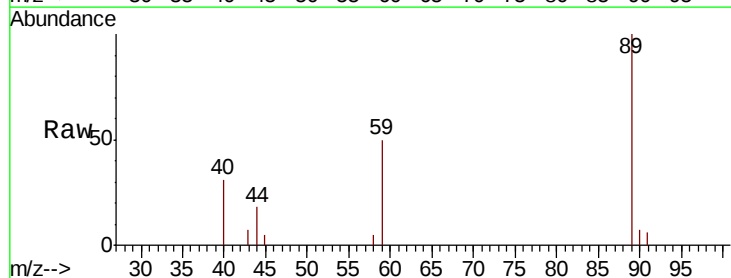
Instrument :
 MSVOA_N
 ClientSampled :

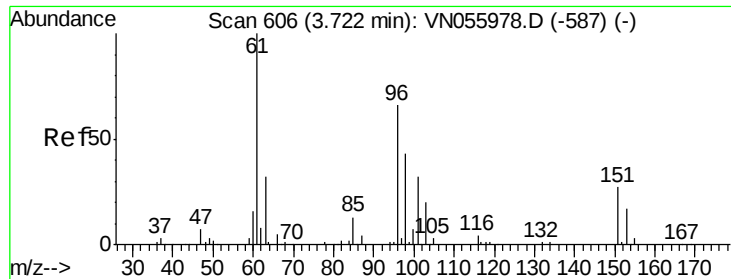
Tot Ion:101 Resp: 4204
 Ion Ratio Lower Upper
 101 100
 85 36.6 33.4 50.2
 151 58.8 69.4 104.2#



#11
 Tert butyl alcohol
 Concen: 11.884 ug/l
 RT: 4.74 min Scan# 923
 Delta R.T. -0.06 min
 Lab File: VN056257.D
 Acq: 12 Jun 2019 18:37

Tgt Ion: 59 Resp: 6292
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.6#





#12

1,1-Dichloroethene

Concen: 0.298 ug/l

RT: 3.72 min Scan# 605

Delta R.T. -0.00 min

Lab File: VN056257.D

Acq: 12 Jun 2019 18:37

Instrument :
MSVOA_N
ClientSampled :

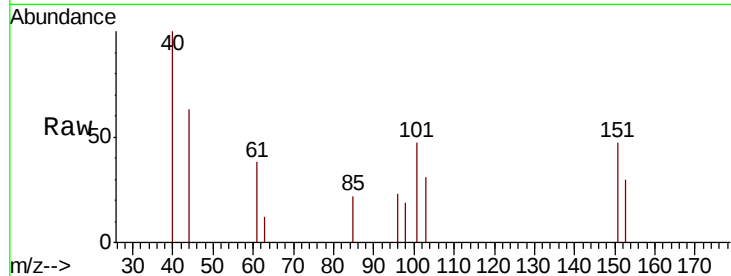
Tot Ion: 96 Resp: 767

Ion Ratio Lower Upper

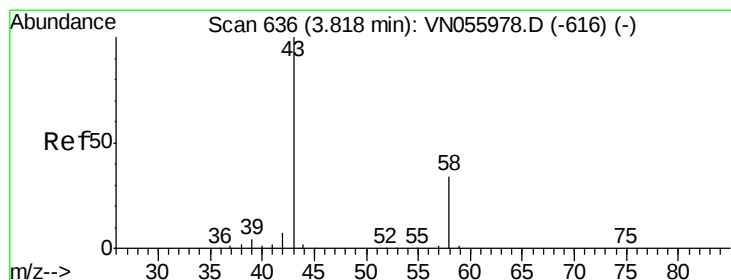
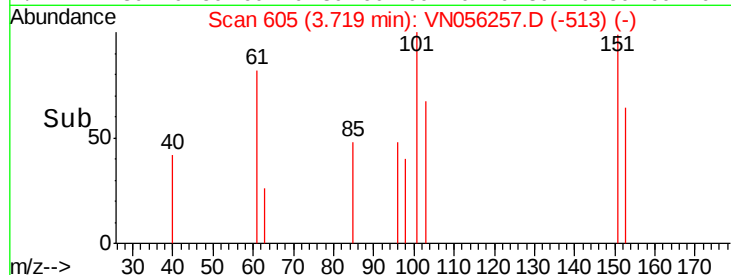
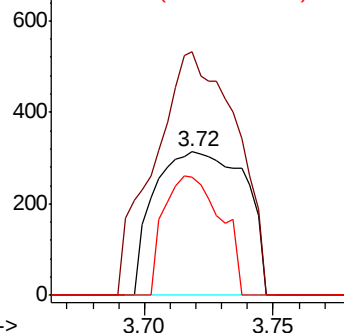
96 100

61 170.0 123.2 184.8

98 82.4 50.4 75.6#



Abundance Ion 95.90 (95.60 to 96.60): VNO
Ion 60.90 (60.60 to 61.60): VNO
Ion 97.90 (97.60 to 98.60): VNO



#16

Acetone

Concen: 0.511 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN056257.D

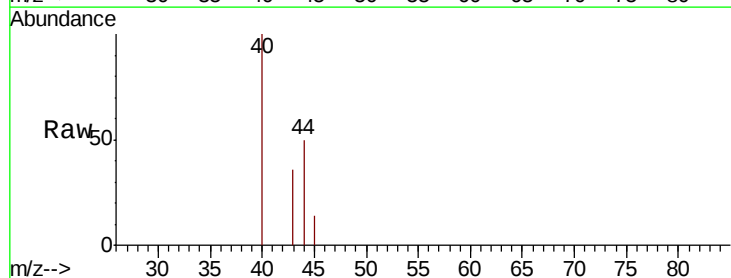
Acq: 12 Jun 2019 18:37

Tgt Ion: 43 Resp: 744

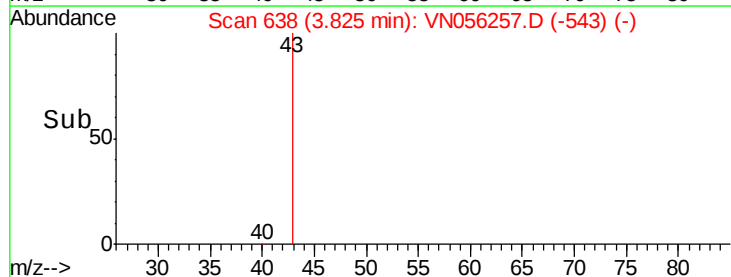
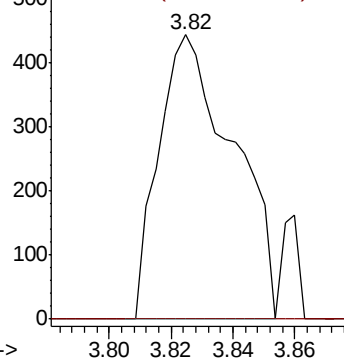
Ion Ratio Lower Upper

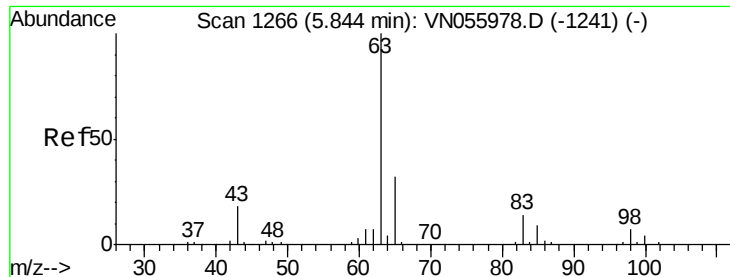
43 100

58 0.0 26.6 39.8#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO





#24

1,1-Dichloroethane

Concen: 0.202 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. 0.01 min

Lab File: VN056257.D

Acq: 12 Jun 2019 18:37

Instrument :

MSVOA_N

ClientSampleId :

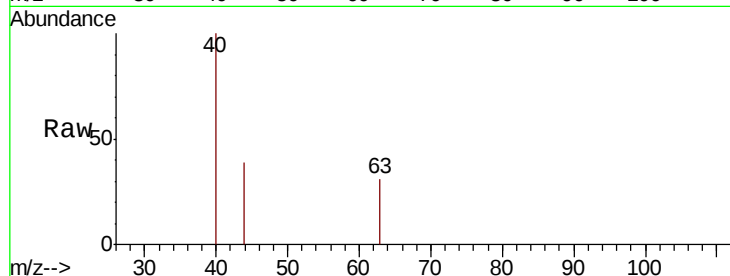
Tot Ion: 63 Resp: 979

Ion Ratio Lower Upper

63 100

98 0.0 3.4 10.1#

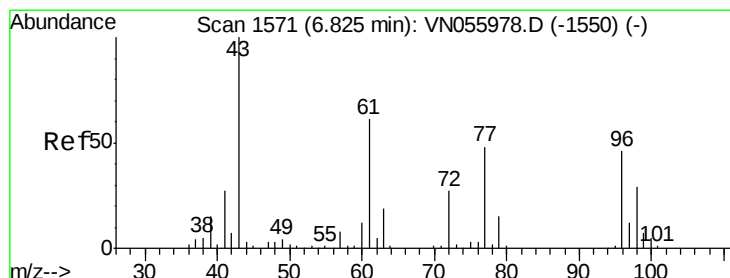
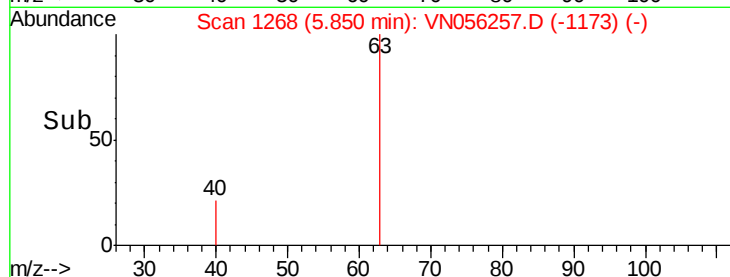
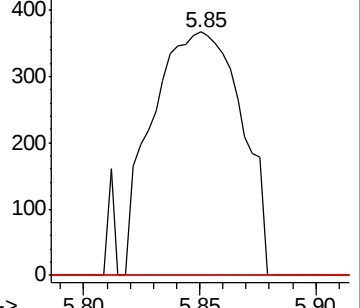
100 0.0 2.2 6.6#



Abundance Ion 62.90 (62.60 to 63.60): VN055978.D (-1241) (-)

Ion 97.90 (97.60 to 98.60): VN055978.D (-1241) (-)

Ion 99.90 (99.60 to 100.60): VN055978.D (-1241) (-)



#27

cis-1,2-Dichloroethene

Concen: 0.357 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN056257.D

Acq: 12 Jun 2019 18:37

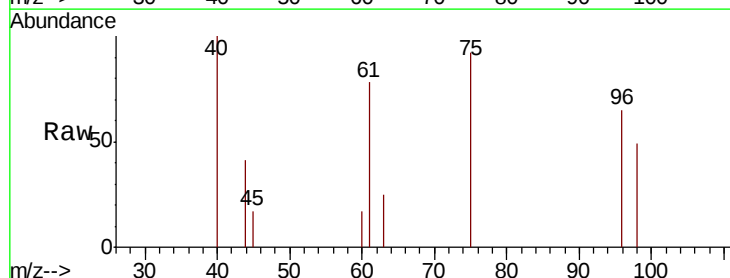
Tgt Ion: 96 Resp: 1156

Ion Ratio Lower Upper

96 100

61 223.6 0.0 275.8

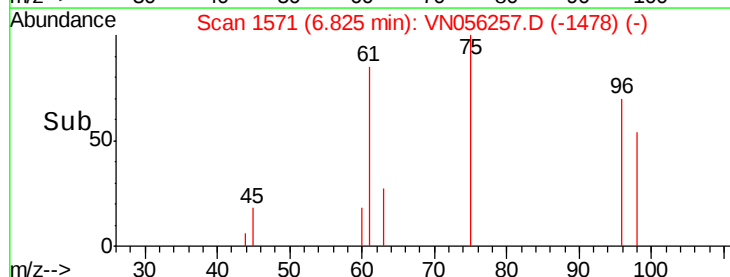
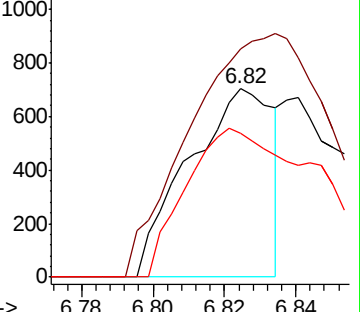
98 121.6 0.0 128.4

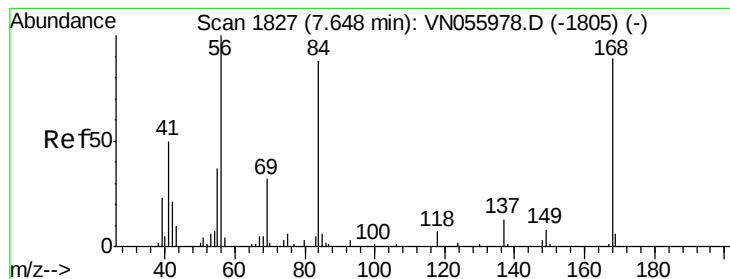


Abundance Ion 95.90 (95.60 to 96.60): VN055978.D (-1550) (-)

Ion 60.90 (60.60 to 61.60): VN055978.D (-1550) (-)

Ion 97.90 (97.60 to 98.60): VN055978.D (-1550) (-)





#31

Cyclohexane

Concen: 0.799 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN056257.D

Acq: 12 Jun 2019 18:37

Instrument :

MSVOA_N

ClientSampled :

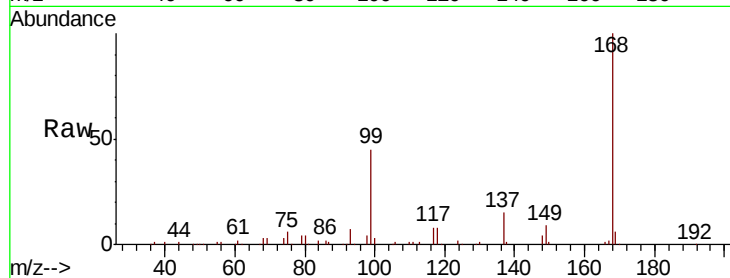
Tot Ion: 56 Resp: 3856

Ion Ratio Lower Upper

56 100

69 209.6 25.6 38.4#

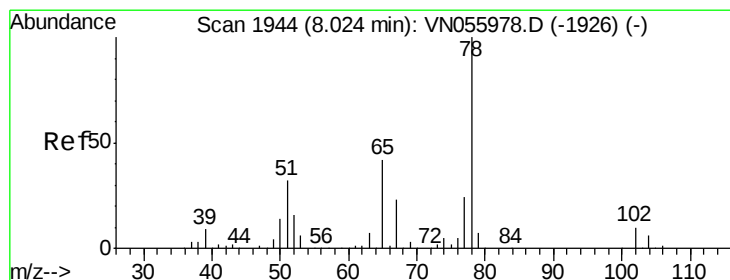
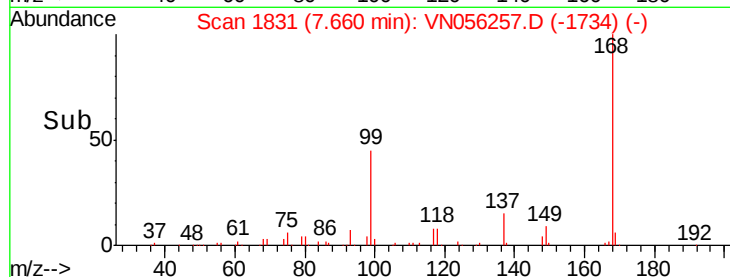
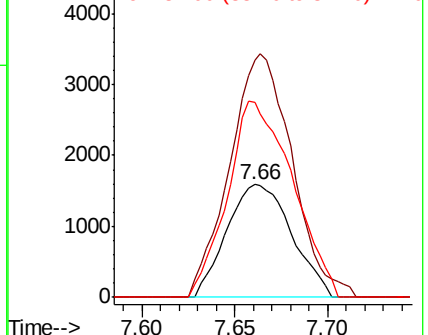
84 172.8 67.4 101.0#



Abundance Ion 56.00 (55.70 to 56.70): VN055978.D (-1805) (-)

Ion 69.00 (68.70 to 69.70): VN055978.D (-1805) (-)

Ion 84.00 (83.70 to 84.70): VN055978.D (-1805) (-)



#33

1,2-Dichloroethane-d4

Concen: 51.270 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056257.D

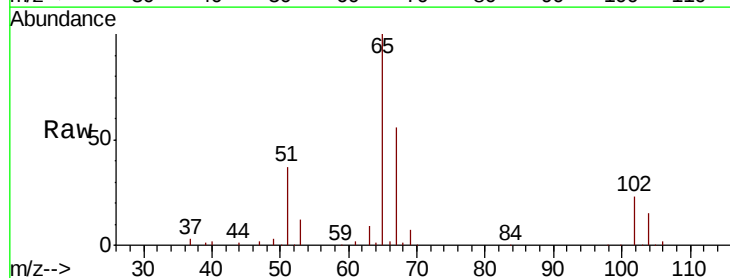
Acq: 12 Jun 2019 18:37

Tgt Ion: 65 Resp: 155990

Ion Ratio Lower Upper

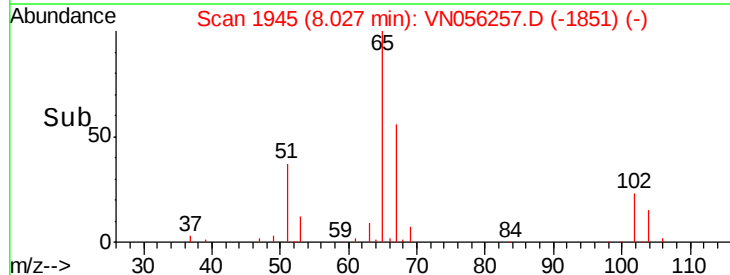
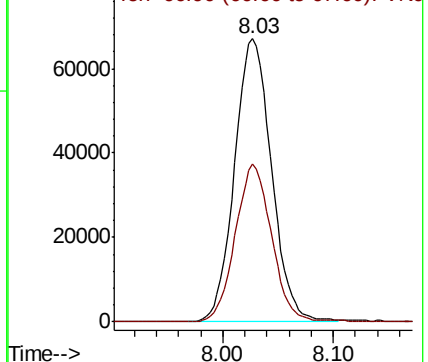
65 100

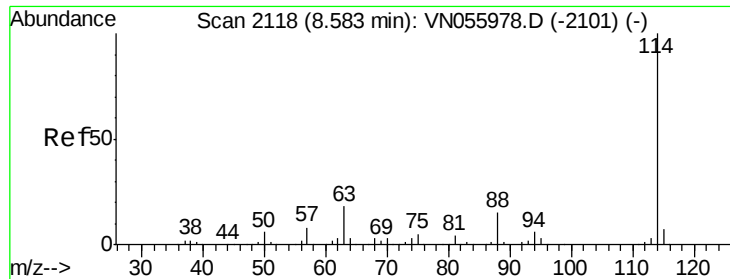
67 54.8 0.0 109.2



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

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

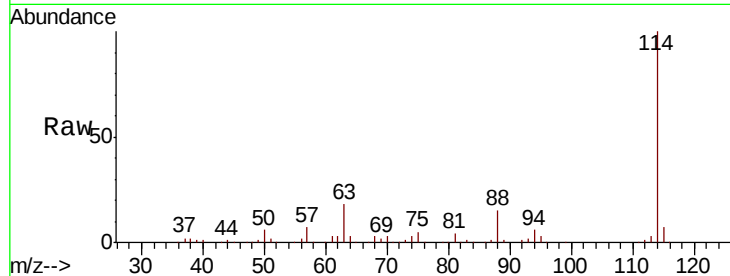




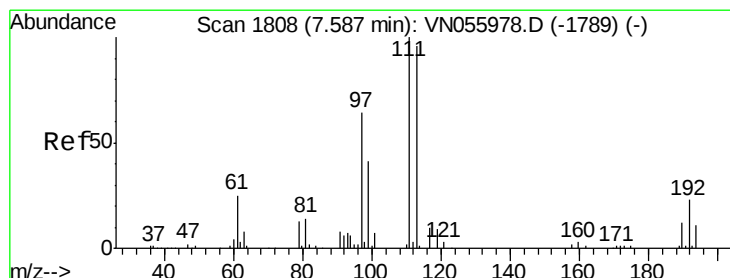
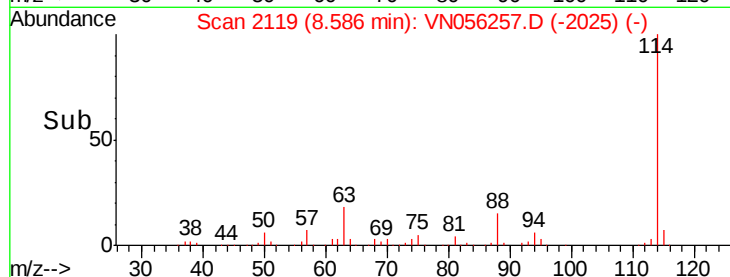
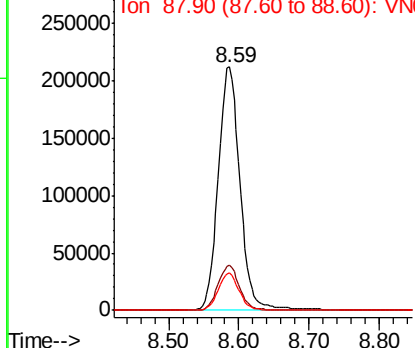
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN056257.D
Acq: 12 Jun 2019 18:37

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:114 Resp: 459041
Ion Ratio Lower Upper
114 100
63 18.4 0.0 39.2
88 15.2 0.0 31.0

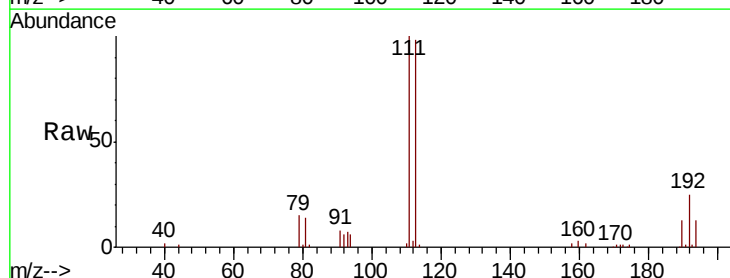


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

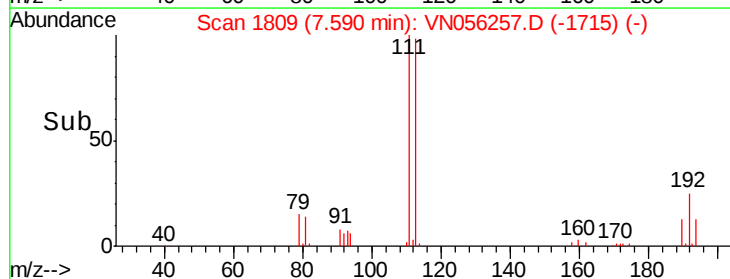
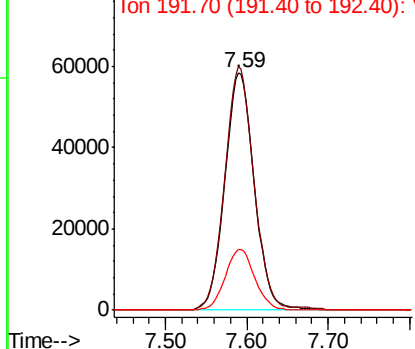


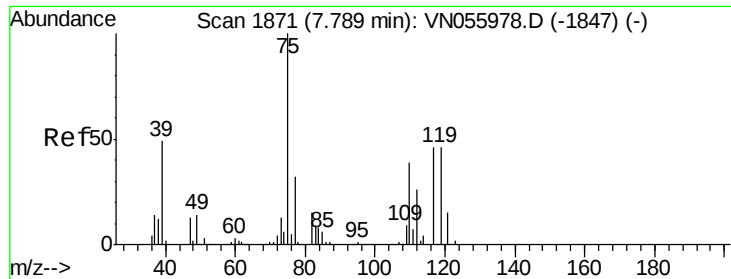
#35
Dibromofluoromethane
Concen: 52.676 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN056257.D
Acq: 12 Jun 2019 18:37

Tgt Ion:113 Resp: 148356
Ion Ratio Lower Upper
113 100
111 102.0 81.9 122.9
192 25.8 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

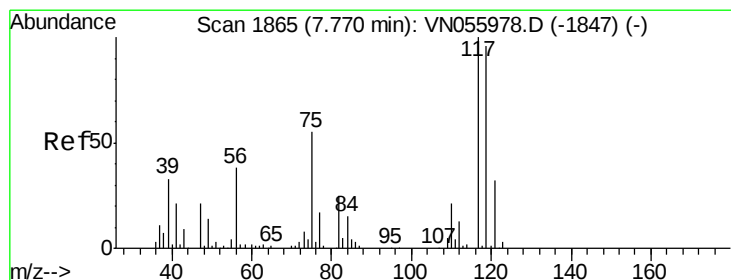
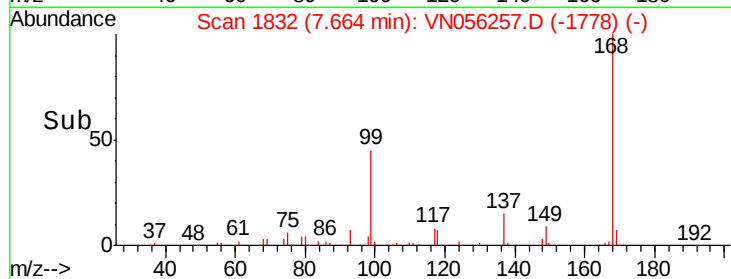
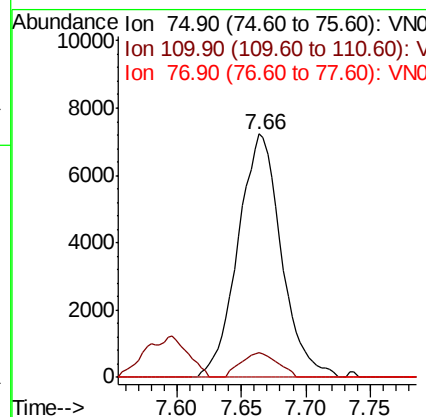
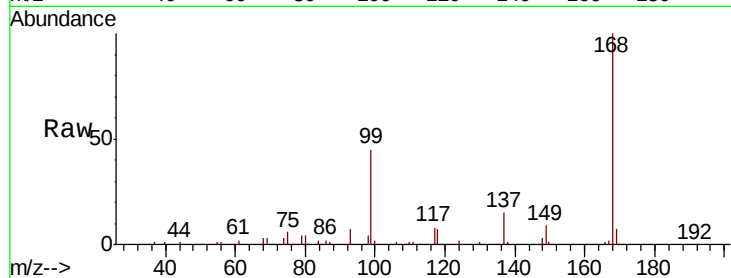




#36
 1,1-Dichloropropene
 Concen: 4.290 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056257.D
 Acq: 12 Jun 2019 18:37

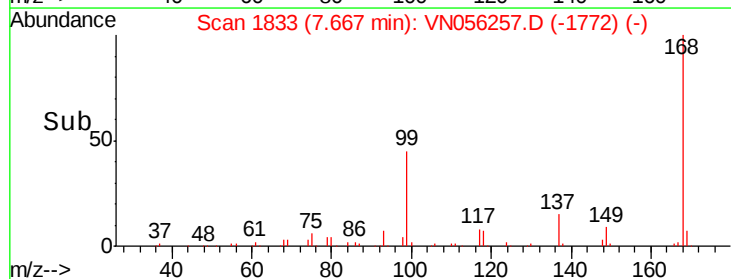
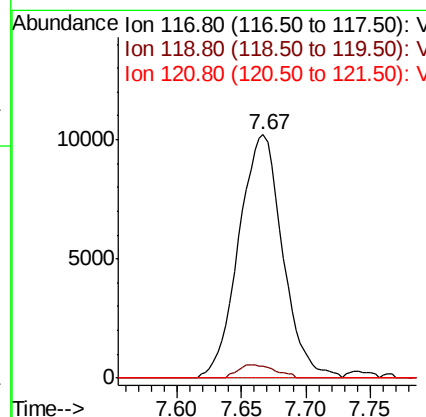
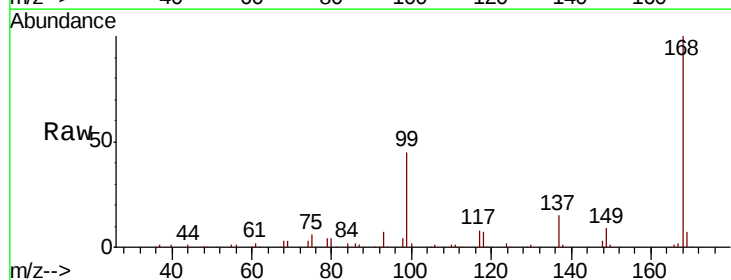
Instrument :
 MSVOA_N
 ClientSampleId :

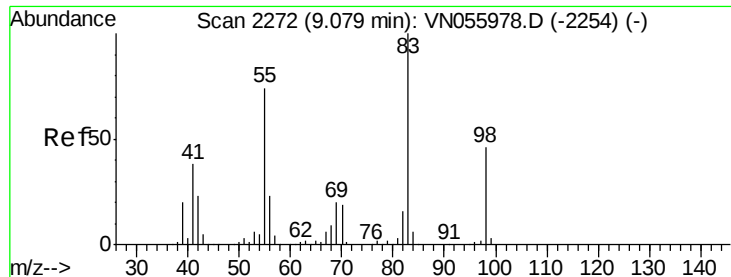
Tot Ion	75	110	77	Resp	16932	Lower	Upper
Ratio	100	8.4	0.0				
		19.0	25.1				
		57.0#	37.7#				



#38
 Carbon Tetrachloride
 Concen: 6.655 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.10 min
 Lab File: VN056257.D
 Acq: 12 Jun 2019 18:37

Tgt Ion	117	119	121	Resp	24217	Lower	Upper
Ratio	100	4.9	0.0				
		79.0	24.7				
		118.6#	37.1#				

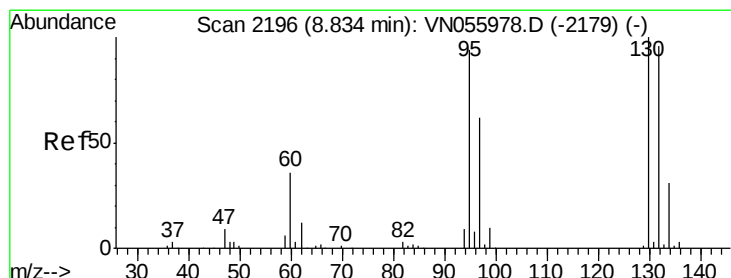
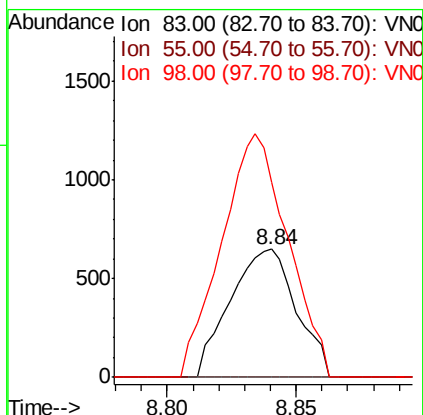
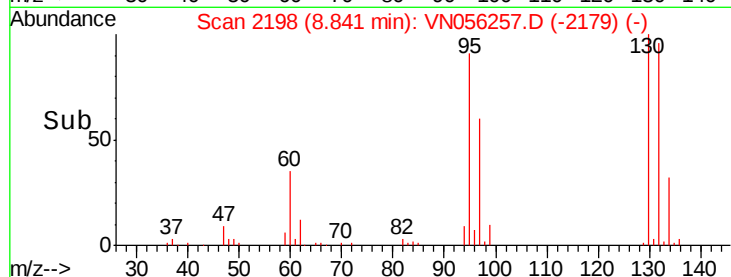
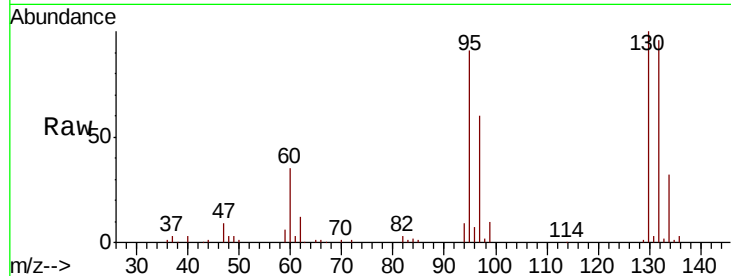




#39
Methvlcvclohexane
Concen: 0.236 ug/l
RT: 8.84 min Scan# 2198
Delta R.T. -0.24 min
Lab File: VN056257.D
Acq: 12 Jun 2019 18:37

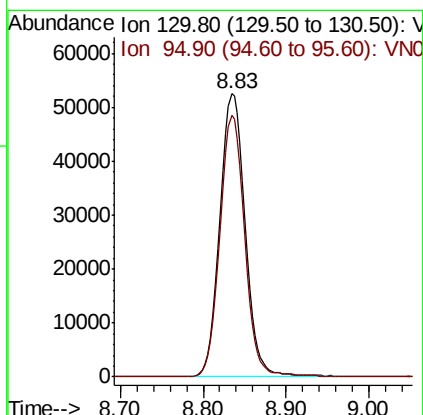
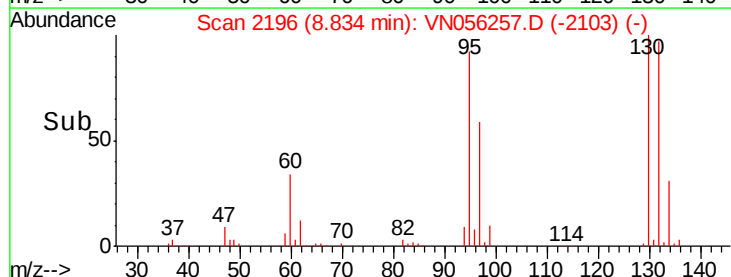
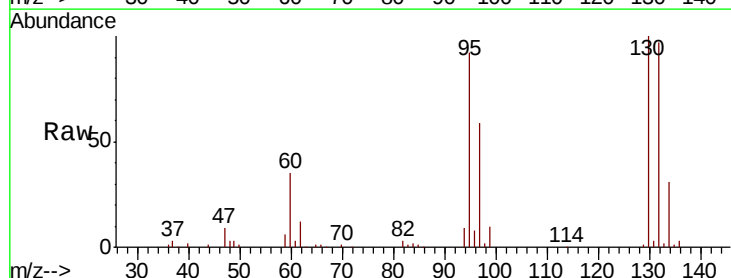
Instrument :
MSVOA_N
ClientSampleId :

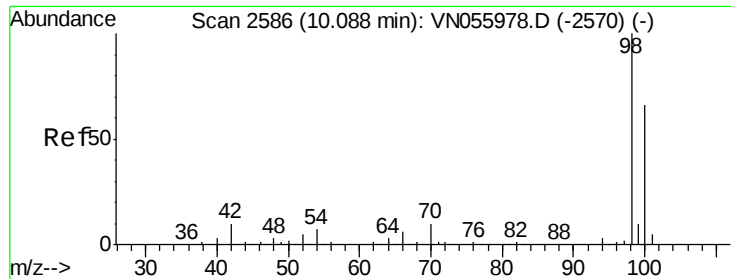
Tot Ion: 83 Resp: 1161
Ion Ratio Lower Upper
83 100
55 0.0 59.3 88.9#
98 151.8 36.6 54.8#



#44
Trichloroethene
Concen: 32.377 ug/l
RT: 8.83 min Scan# 2196
Delta R.T. -0.00 min
Lab File: VN056257.D
Acq: 12 Jun 2019 18:37

Tgt Ion:130 Resp: 111532
Ion Ratio Lower Upper
130 100
95 92.4 0.0 188.0





#50

Toluene-d8

Concen: 53.141 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056257.D

Acq: 12 Jun 2019 18:37

Instrument :

MSVOA_N

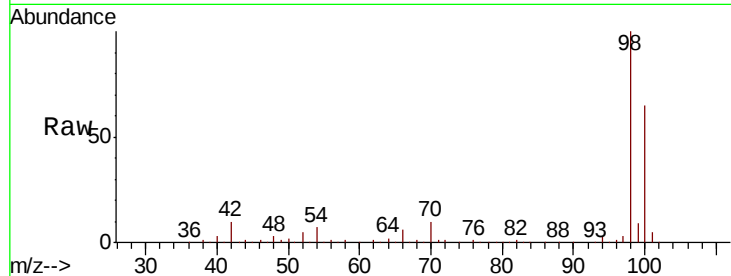
ClientSampleId :

Tot Ion: 98 Resp: 575907

Ion Ratio Lower Upper

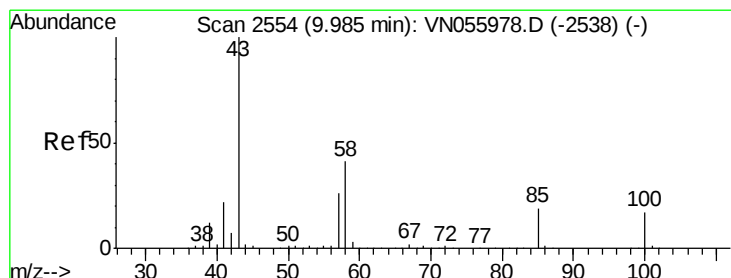
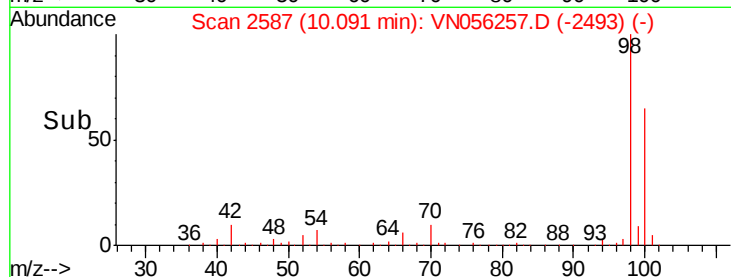
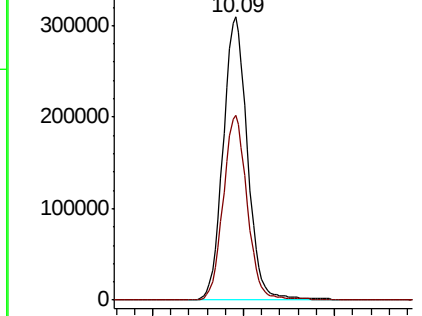
98 100

100 64.8 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 0.584 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.11 min

Lab File: VN056257.D

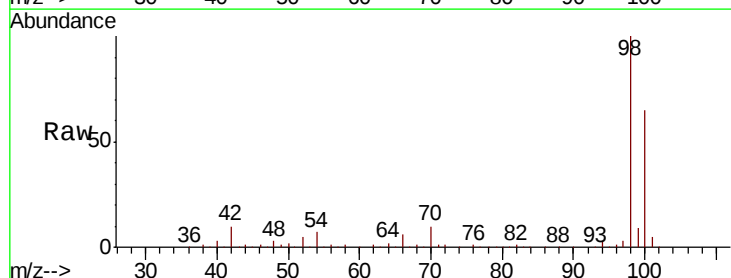
Acq: 12 Jun 2019 18:37

Tgt Ion: 43 Resp: 2080

Ion Ratio Lower Upper

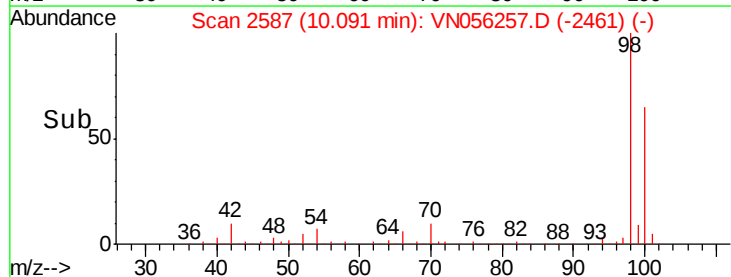
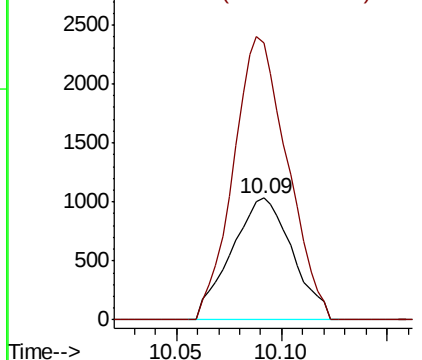
43 100

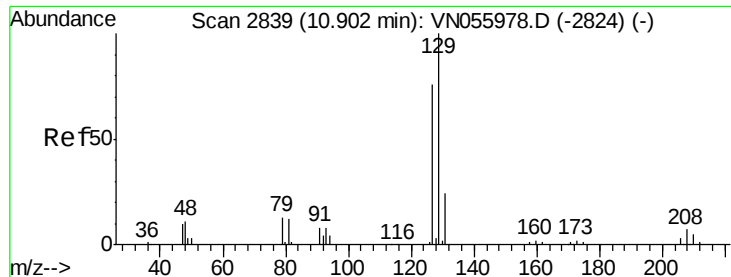
58 205.1 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

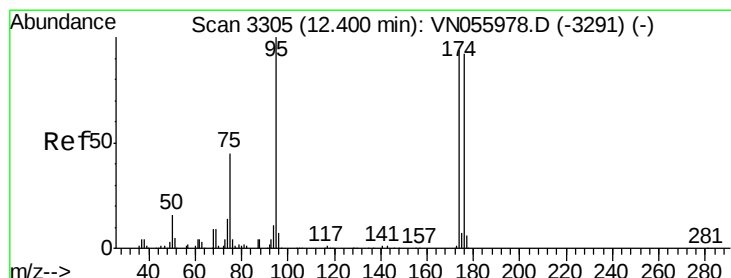
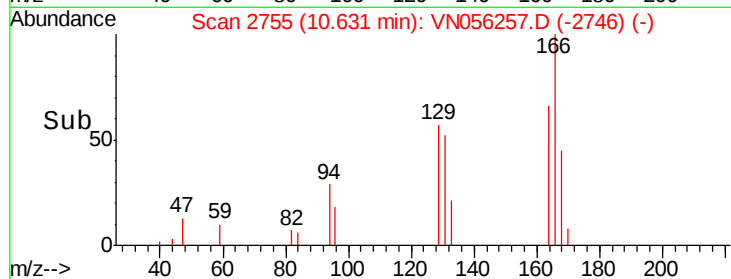
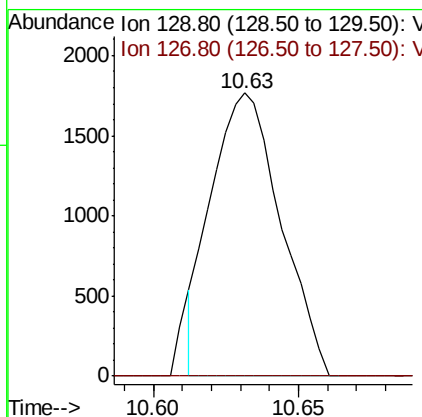
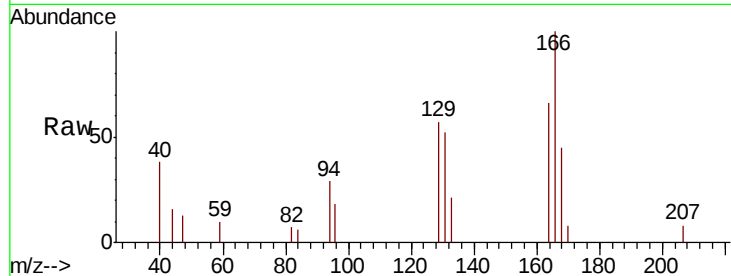




#60
Dibromochloromethane
Concen: 3.309 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.27 min
Lab File: VN056257.D
Acq: 12 Jun 2019 18:37

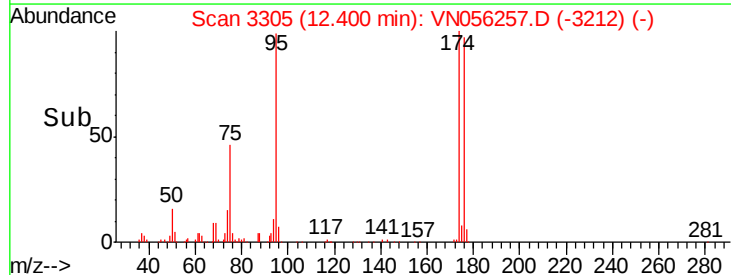
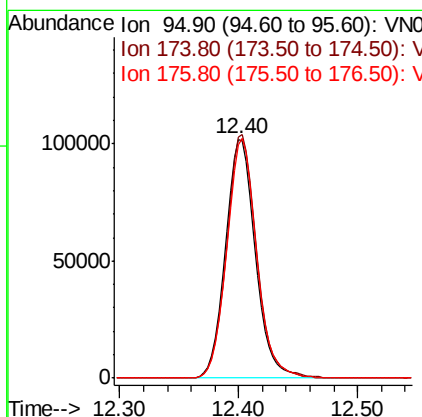
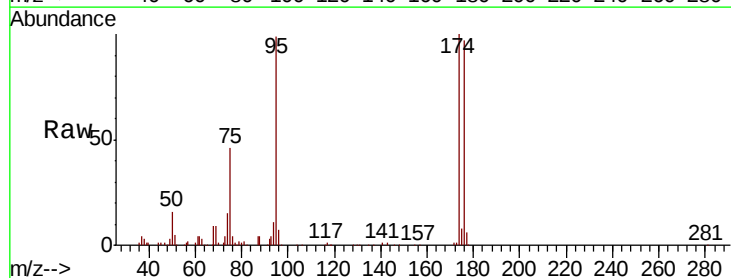
Instrument :
MSVOA_N
ClientSampleId :

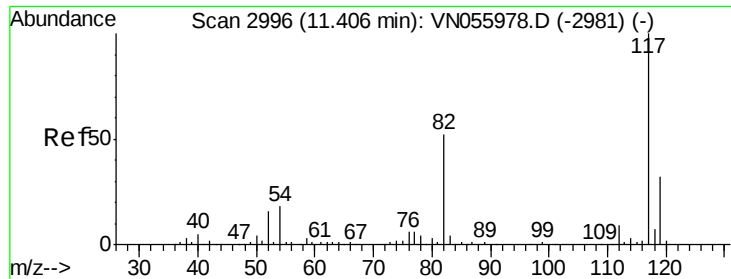
Tot Ion:129 Resp: 2938
Ion Ratio Lower Upper
129 100
127 0.0 38.1 114.3#



#62
4-Bromofluorobenzene
Concen: 48.200 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN056257.D
Acq: 12 Jun 2019 18:37

Tgt Ion: 95 Resp: 177642
Ion Ratio Lower Upper
95 100
174 102.0 0.0 191.0
176 99.6 0.0 185.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN056257.D

Acq: 12 Jun 2019 18:37

Instrument :

MSVOA_N

ClientSampleId :

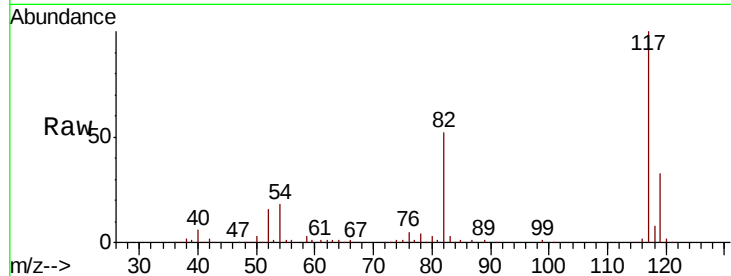
Tot Ion:117 Resp: 450562

Ion Ratio Lower Upper

117 100

82 51.6 41.8 62.8

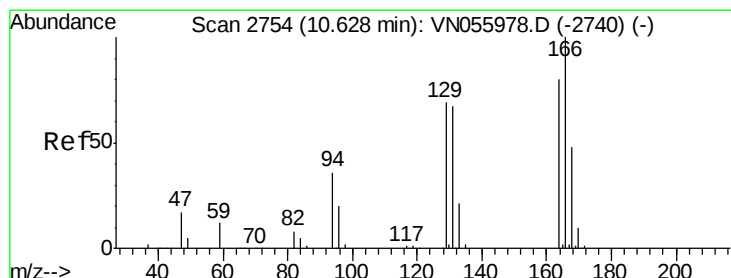
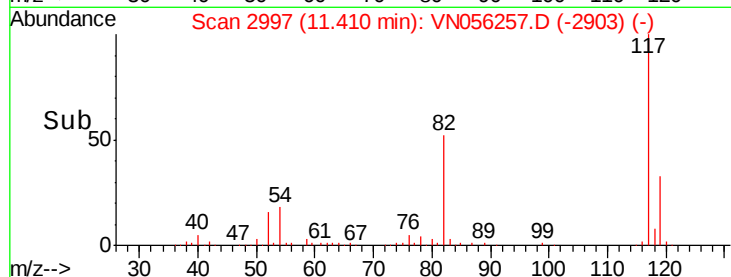
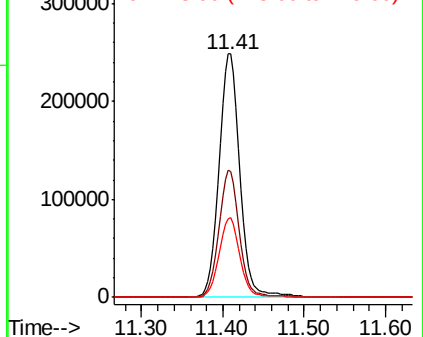
119 32.6 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 0.968 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN056257.D

Acq: 12 Jun 2019 18:37

Tgt Ion:164 Resp: 3776

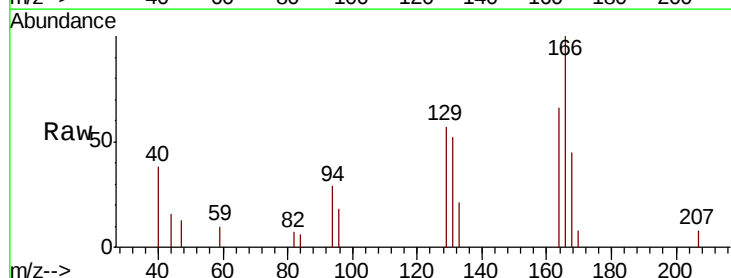
Ion Ratio Lower Upper

164 100

166 152.5 103.0 154.6

129 87.4 70.6 105.8

131 78.9 68.6 102.8

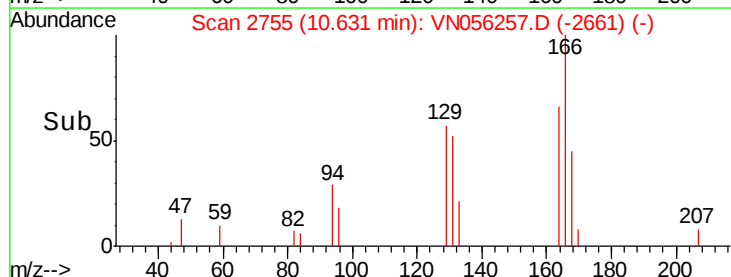
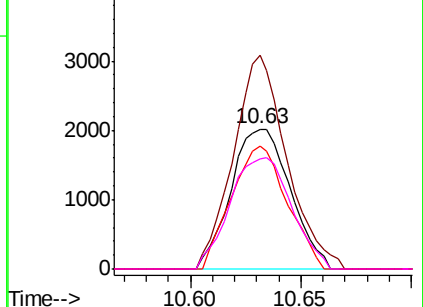


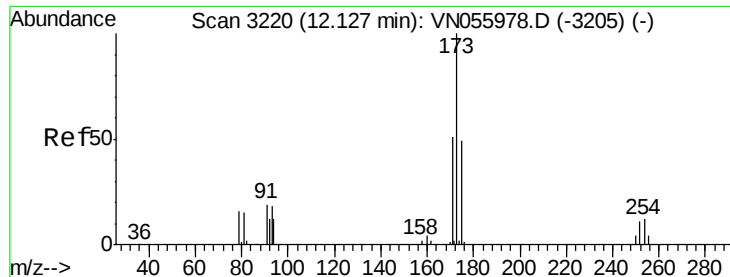
Abundance Ion 163.80 (163.50 to 164.50): V

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: 2.780 ug/l

RT: 12.39 min Scan# 3301

Delta R.T. 0.26 min

Lab File: VN056257.D

Acq: 12 Jun 2019 18:37

Instrument :

MSVOA_N

ClientSampleId :

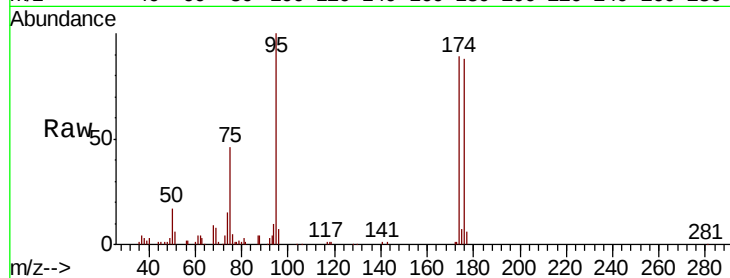
Tot Ion:173 Resp: 104

Ion Ratio Lower Upper

173 100

175 0.0 24.3 72.8#

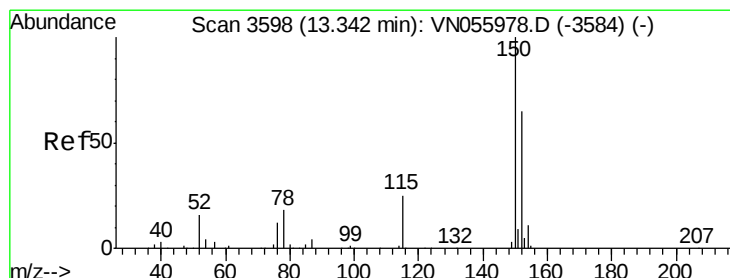
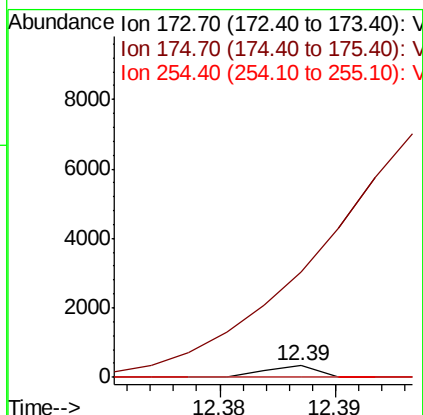
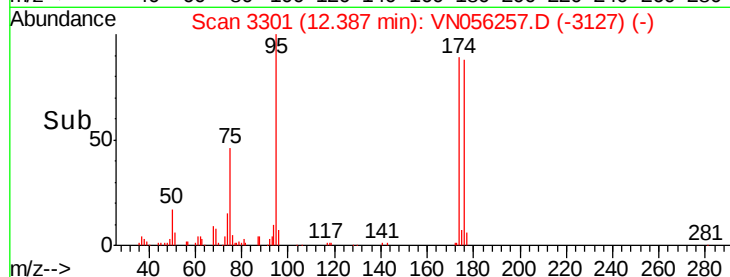
254 0.0 0.0 0.0



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: VN056257.D

Acq: 12 Jun 2019 18:37

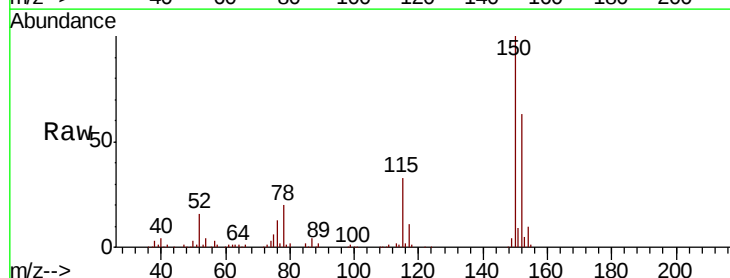
Tgt Ion:152 Resp: 138812

Ion Ratio Lower Upper

152 100

115 51.6 27.0 81.0

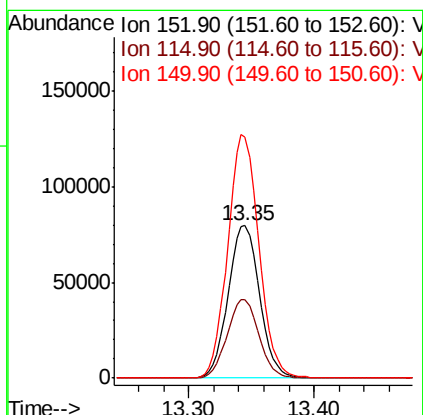
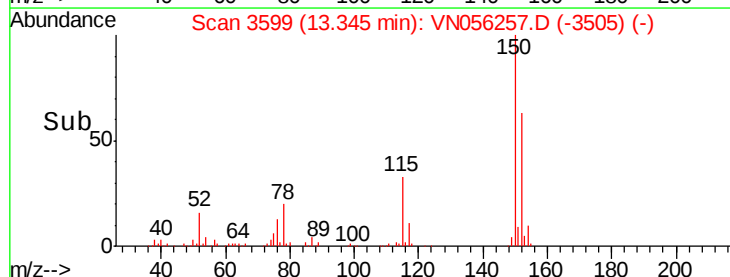
150 157.9 0.0 343.2

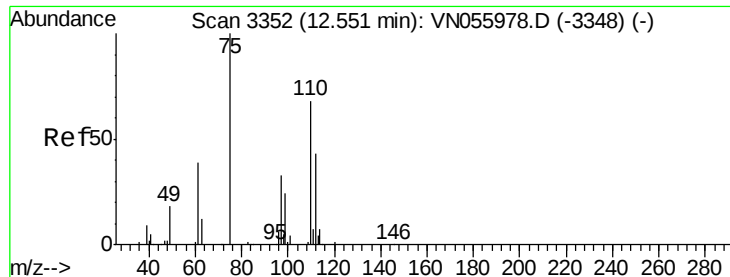


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 32.329 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056257.D

Acq: 12 Jun 2019 18:37

Instrument :

MSVOA_N

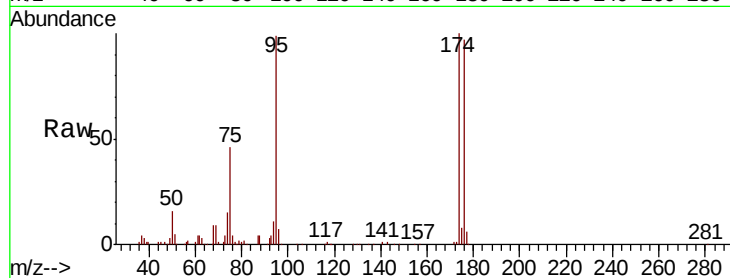
ClientSampled :

Tot Ion: 75 Resp: 82574

Ion Ratio Lower Upper

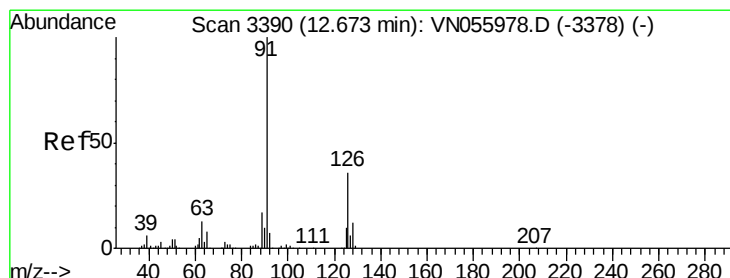
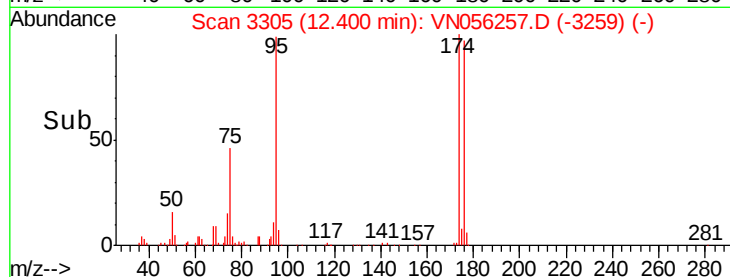
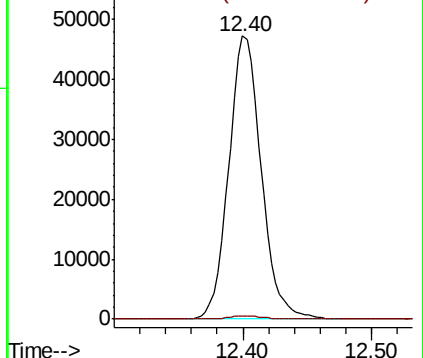
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.40 min Scan# 3304

Delta R.T. -0.28 min

Lab File: VN056257.D

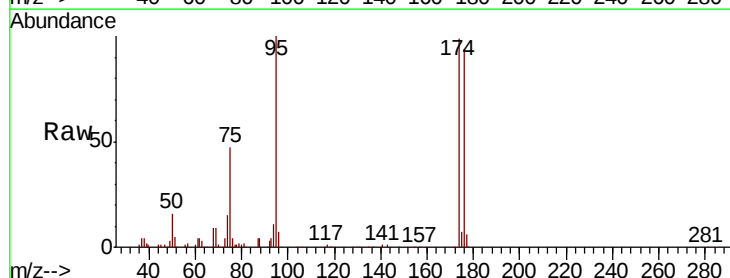
Acq: 12 Jun 2019 18:37

Tgt Ion: 91 Resp: 474

Ion Ratio Lower Upper

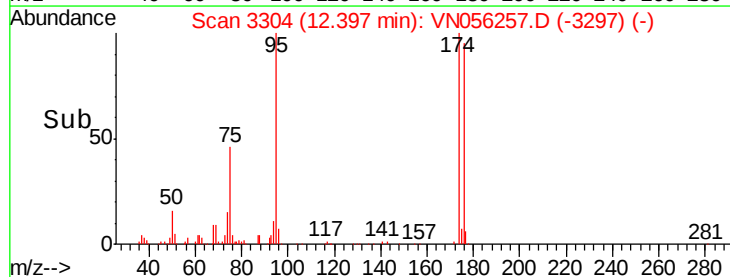
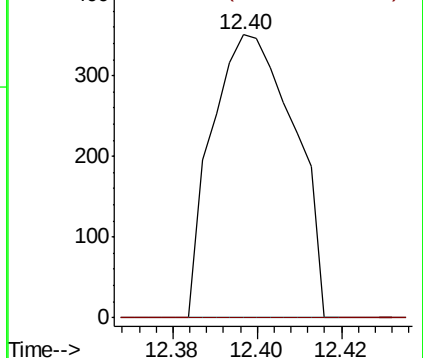
91 100

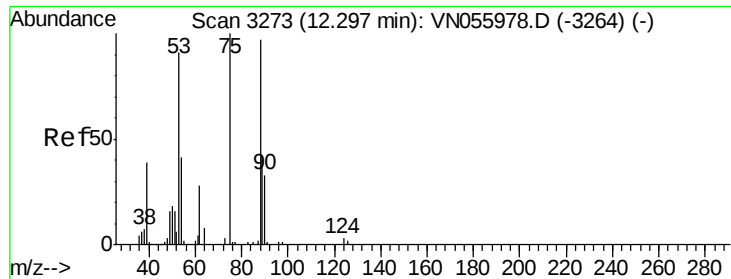
126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 107.661 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056257.D

Acq: 12 Jun 2019 18:37

Instrument :

MSVOA_N

ClientSampleId :

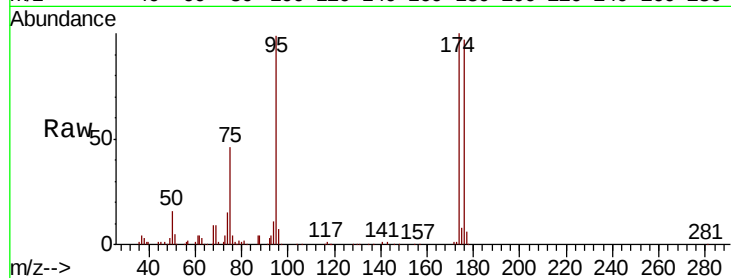
Tot Ion: 75 Resp: 82574

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): VNO
Ion 53.00 (52.70 to 53.70): VNO
Ion 88.90 (88.60 to 89.60): VNO

