

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091919\
 Data File : VN058220.D
 Acq On : 19 Sep 2019 21:28
 Operator : JC/SP
 Sample : K4896-08DL 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 20 04:26:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	501105	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	815489	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	693333	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	290327	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	361523	51.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.60%	
35) Dibromofluoromethane	7.58	113	250330	50.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.00%	
50) Toluene-d8	10.09	98	1020130	52.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.62%	
62) 4-Bromofluorobenzene	12.40	95	328619	45.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.60%	

Target Compounds

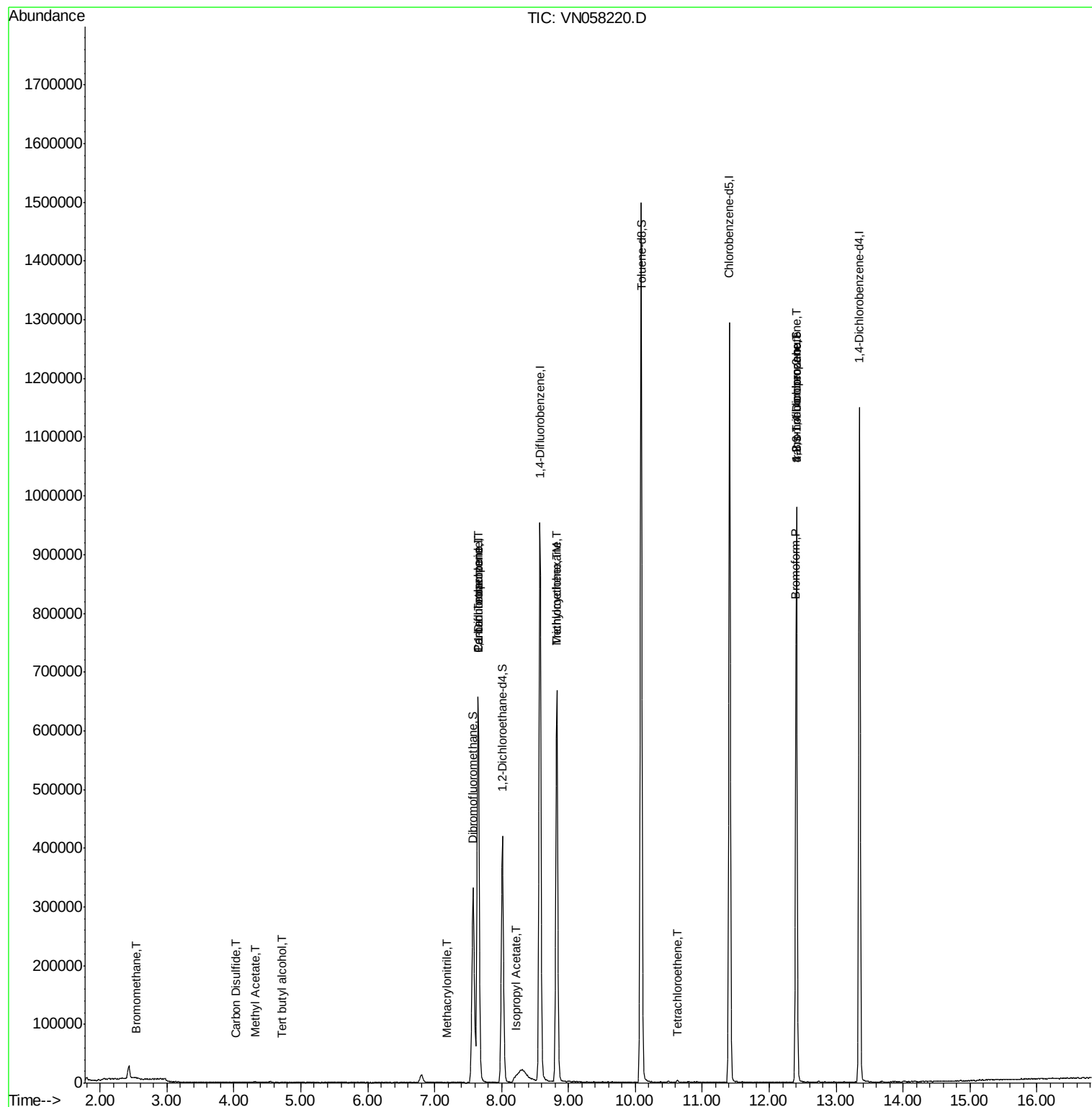
					Qvalue
3) Chloromethane	2.04	50	450	Below Cal	# 42
5) Bromomethane	2.55	94	154	0.805 ug/l	# 4
6) Chloroethane	2.86	64	64	Below Cal	# 44
11) Tert butyl alcohol	4.73	59	327	0.394 ug/l	# 71
12) 1,1-Dichloroethene	3.73	96	495	Below Cal	# 40
17) Carbon Disulfide	4.03	76	136	0.302 ug/l	# 74
18) Methyl Acetate	4.32	43	1766	0.283 ug/l	# 85
20) Methylene Chloride	4.53	84	764	Below Cal	# 85
31) Cyclohexane	7.65	56	12462	Below Cal	# 1
36) 1,1-Dichloropropene	7.65	75	44256	7.525 ug/l	# 50
38) Carbon Tetrachloride	7.65	117	50367	8.520 ug/l	# 14
39) Methylcyclohexane	8.82	83	3068	0.610 ug/l	# 1
41) Methacrylonitrile	7.19	41	34	0.922 ug/l	# 100
43) Isopropyl Acetate	8.22	43	12618	1.107 ug/l	# 57
44) Trichloroethene	8.82	130	234092	53.256 ug/l	# 100
64) Tetrachloroethene	10.63	164	706	0.209 ug/l	# 86
71) Bromoform	12.39	173	166	3.642 ug/l	# 29
76) 1,2,3-Trichloropropane	12.41	75	179941	34.631 ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.41	75	179941	96.936 ug/l	# 5

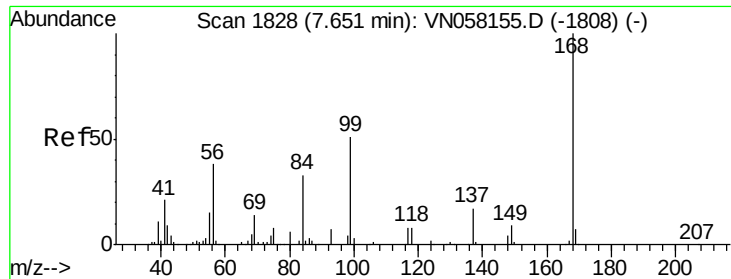
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Sep 19 09:27:53 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058220.D

Acq: 19 Sep 2019 21:28

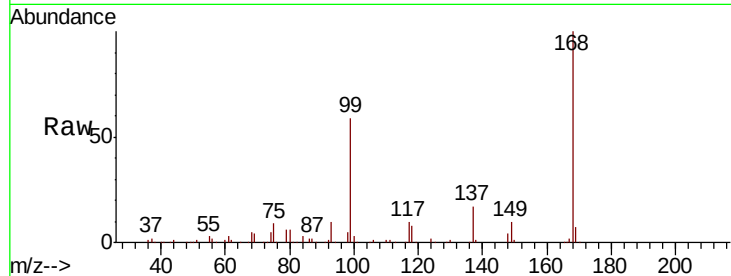
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 501105

Ion Ratio Lower Upper

168 100

99 59.5 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): VN058155.D (-1808) (-)

Ion 98.90 (98.60 to 99.60): VN058155.D (-1808) (-)

7.65

200000

150000

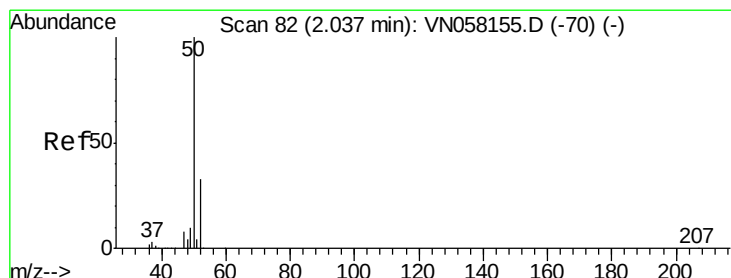
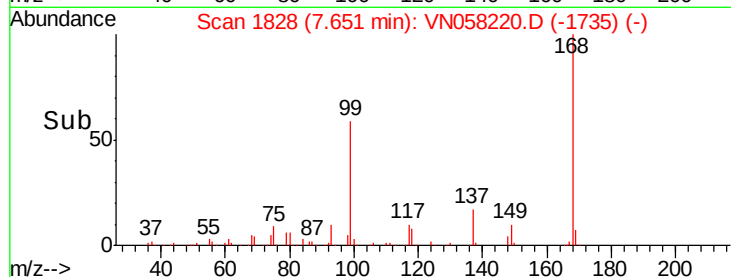
100000

50000

0

Time-->

7.55 7.60 7.65 7.70 7.75



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN058220.D

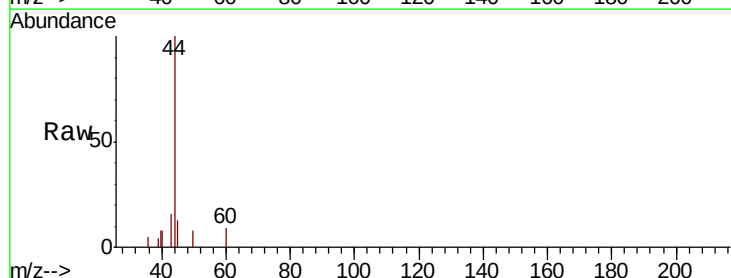
Acq: 19 Sep 2019 21:28

Tgt Ion: 50 Resp: 450

Ion Ratio Lower Upper

50 100

52 0.0 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VN058155.D (-70) (-)

Ion 51.90 (51.60 to 52.60): VN058155.D (-70) (-)

2.04

300

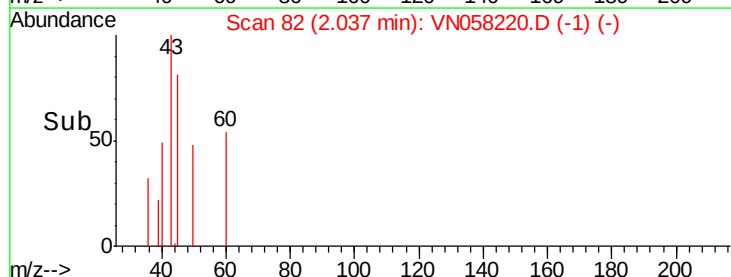
200

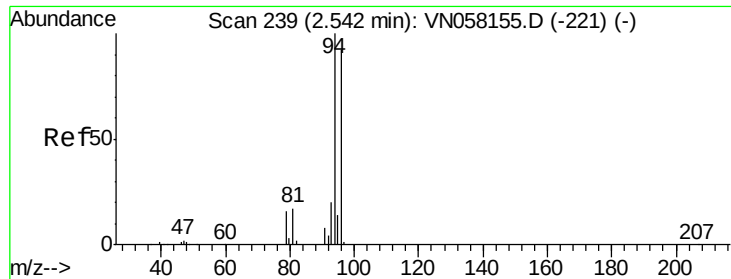
100

0

Time-->

2.02 2.04 2.06





#5

Bromomethane

Concen: 0.805 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VN058220.D

Acq: 19 Sep 2019 21:28

Instrument :

MSVOA_N

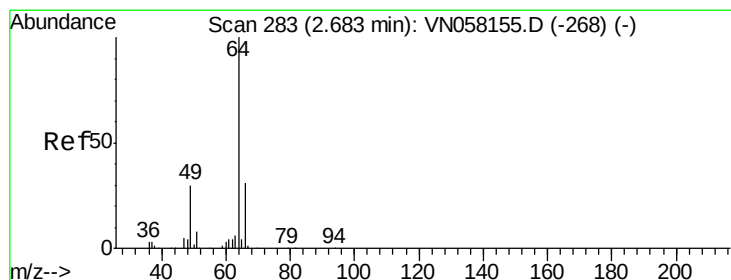
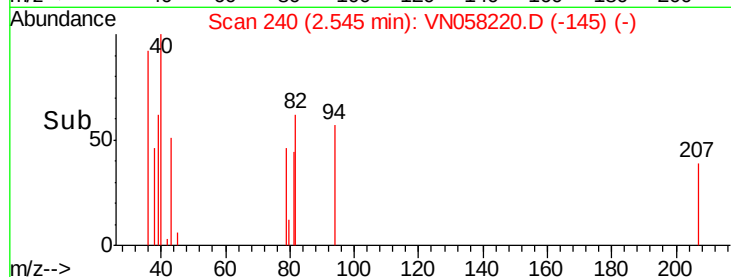
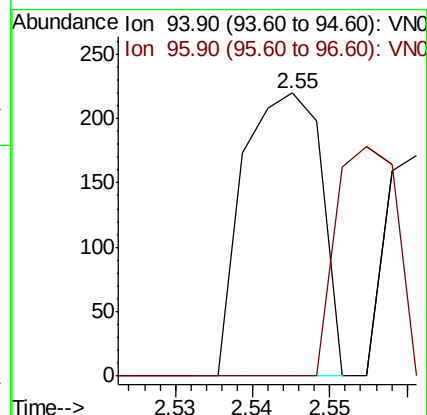
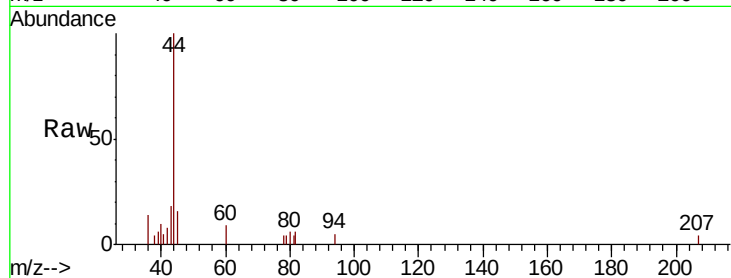
ClientSampled :

Tot Ion: 94 Resp: 154

Ion Ratio Lower Upper

94 100

96 0.0 73.3 109.9#



#6

Chloroethane

Concen: Below Cal

RT: 2.86 min Scan# 337

Delta R.T. 0.17 min

Lab File: VN058220.D

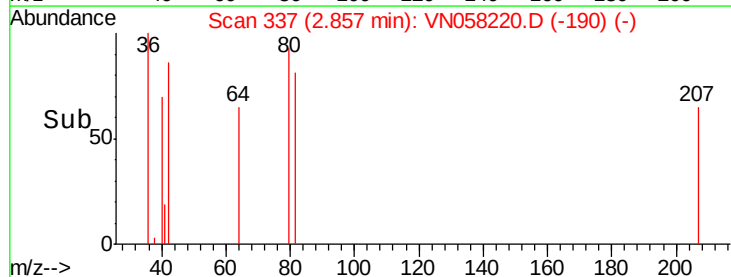
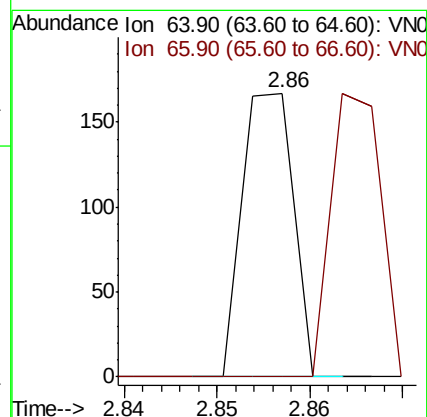
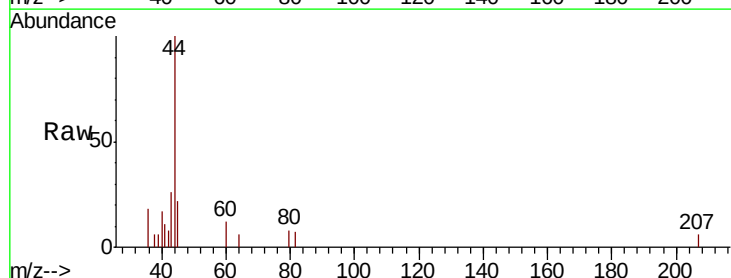
Acq: 19 Sep 2019 21:28

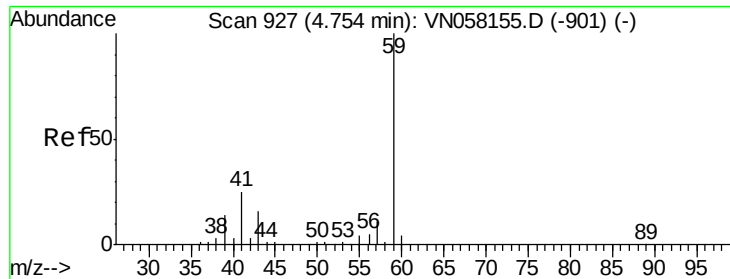
Tgt Ion: 64 Resp: 64

Ion Ratio Lower Upper

64 100

66 0.0 24.6 37.0#

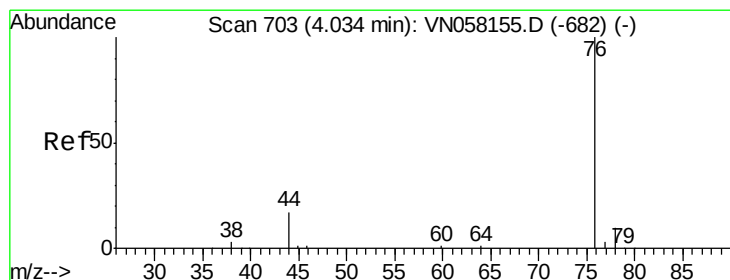
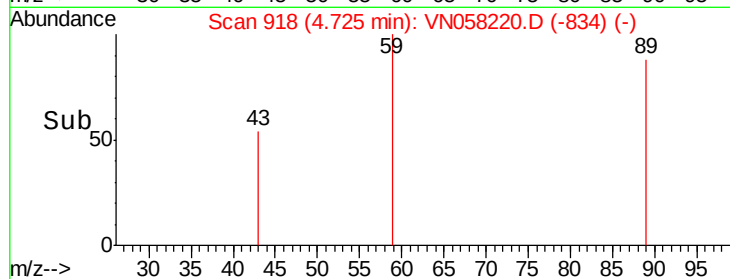
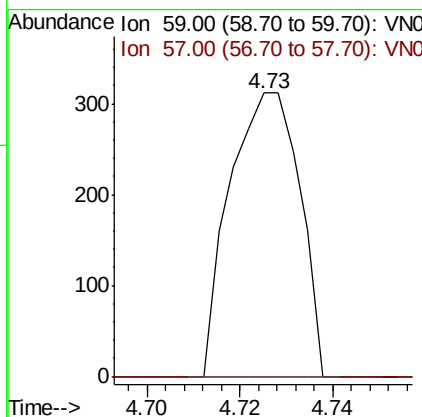
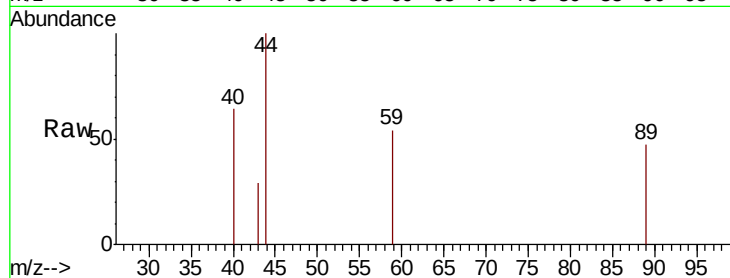




#11
Tert butyl alcohol
Concen: 0.394 ug/l
RT: 4.73 min Scan# 918
Delta R.T. -0.03 min
Lab File: VN058220.D
Acq: 19 Sep 2019 21:28

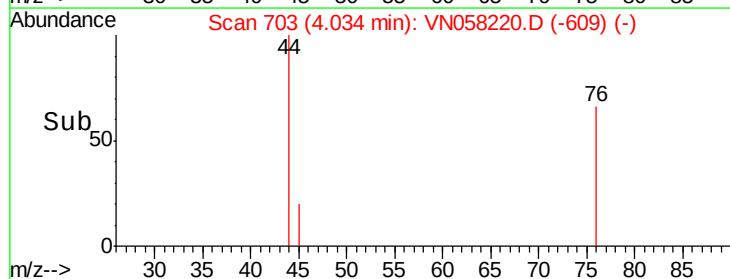
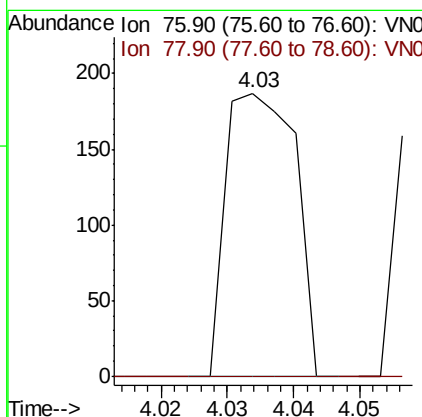
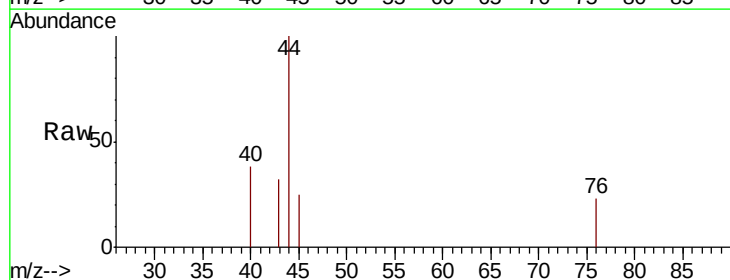
Instrument :
MSVOA_N
ClientSampled :

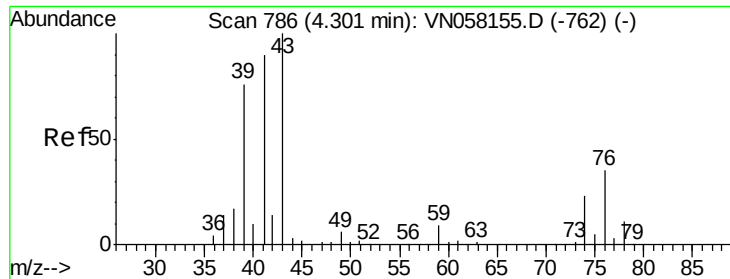
Tot Ion: 59 Resp: 327
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#



#17
Carbon Disulfide
Concen: 0.302 ug/l
RT: 4.03 min Scan# 703
Delta R.T. 0.00 min
Lab File: VN058220.D
Acq: 19 Sep 2019 21:28

Tgt Ion: 76 Resp: 136
Ion Ratio Lower Upper
76 100
78 0.0 7.7 11.5#

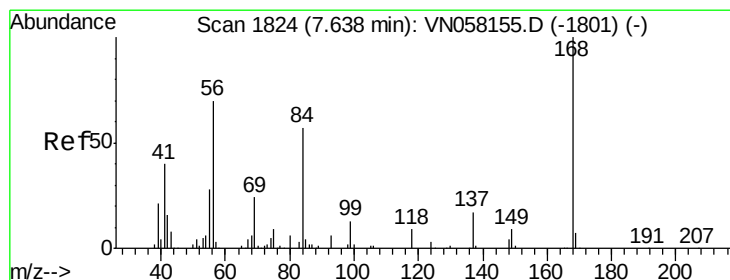
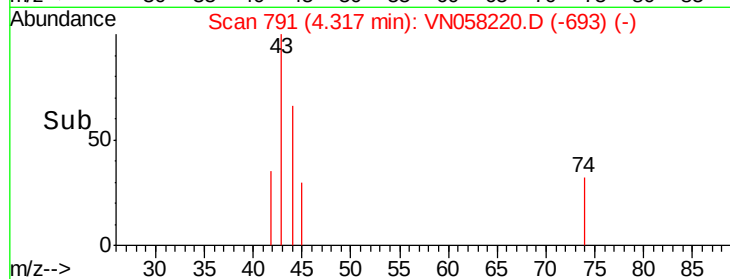
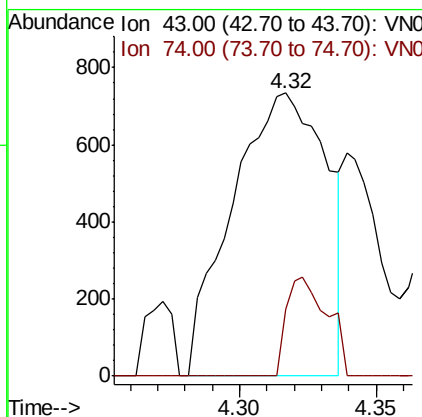
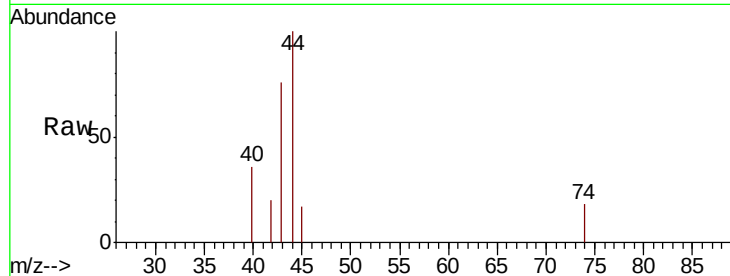




#18
Methvl Acetate
Concen: 0.283 ug/l
RT: 4.32 min Scan# 791
Delta R.T. 0.02 min
Lab File: VN058220.D
Acq: 19 Sep 2019 21:28

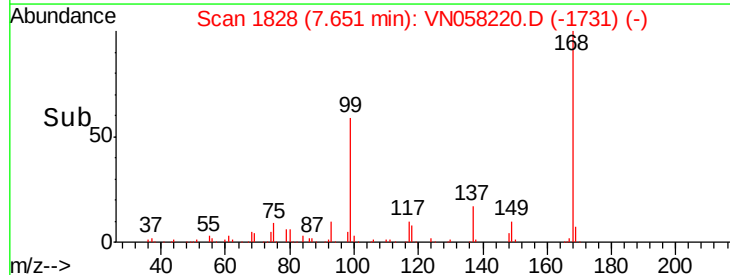
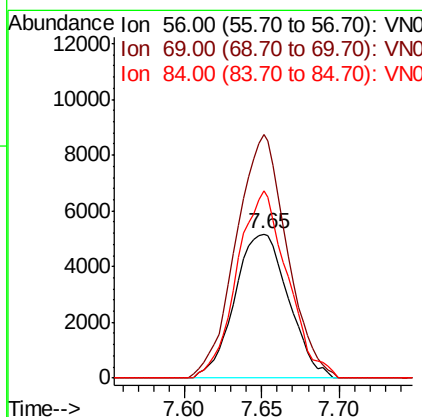
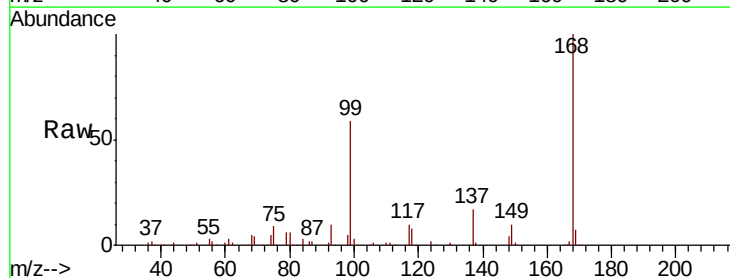
Instrument :
MSVOA_N
ClientSampleId :

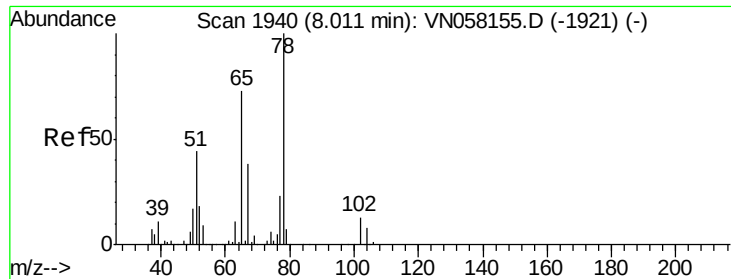
Tot Ion: 43 Resp: 1766
Ion Ratio Lower Upper
43 100
74 15.1 18.0 27.0#



#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1828
Delta R.T. 0.01 min
Lab File: VN058220.D
Acq: 19 Sep 2019 21:28

Tgt Ion: 56 Resp: 12462
Ion Ratio Lower Upper
56 100
69 169.1 27.3 40.9#
84 130.4 65.0 97.4#

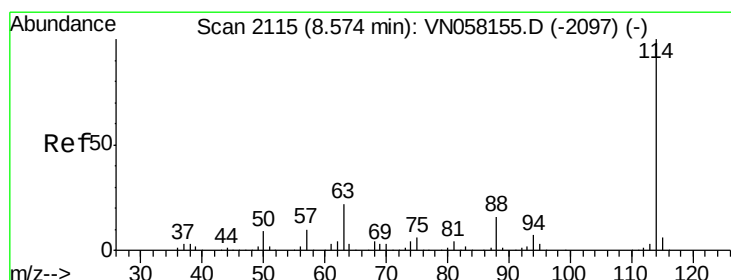
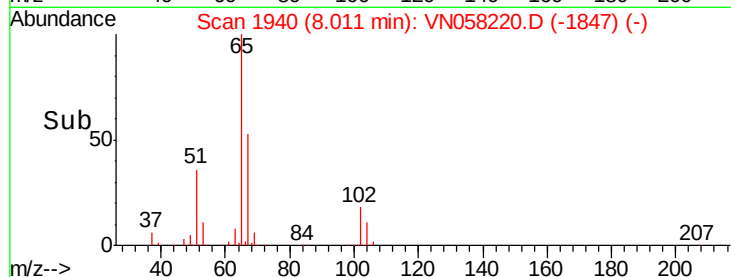
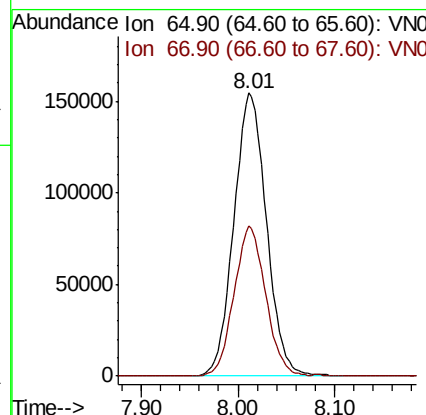
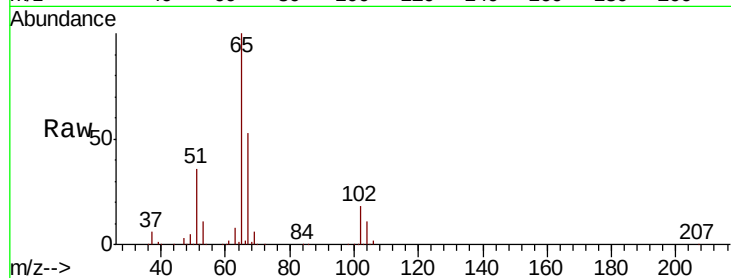




#33
 1,2-Dichloroethane-d4
 Concen: 51.799 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058220.D
 Acq: 19 Sep 2019 21:28

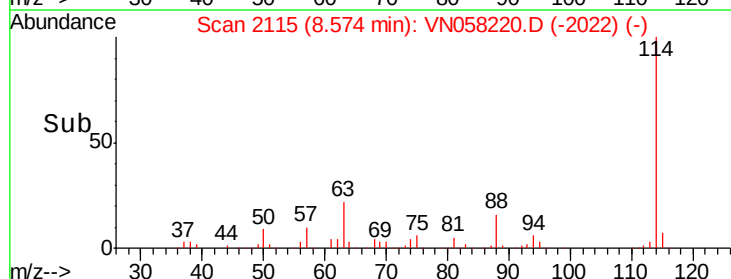
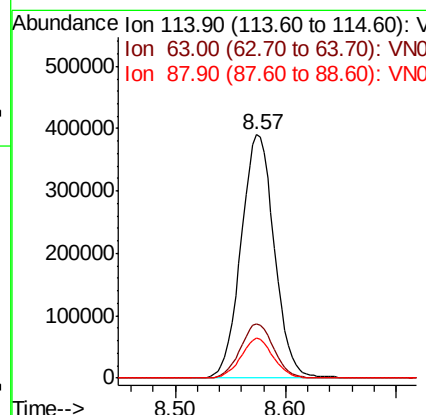
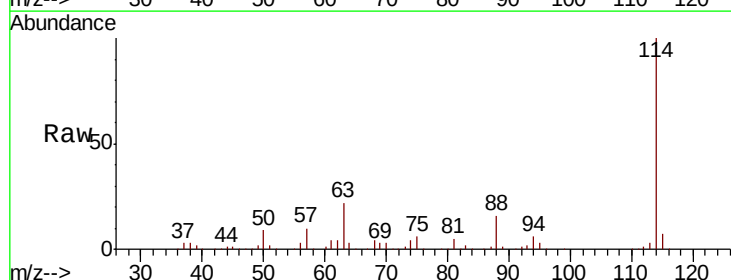
Instrument :
 MSVOA_N
 ClientSampleId :

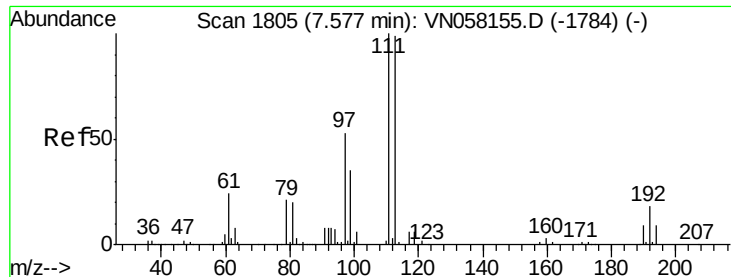
Tot Ion: 65 Resp: 361523
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058220.D
 Acq: 19 Sep 2019 21:28

Tgt Ion: 114 Resp: 815489
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 44.2
 88 16.2 0.0 31.6

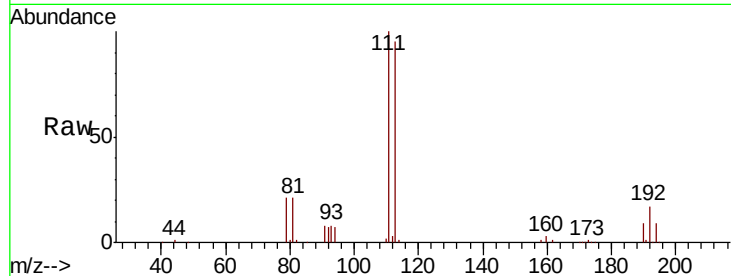




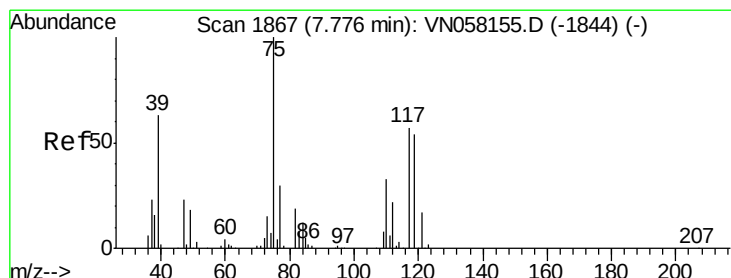
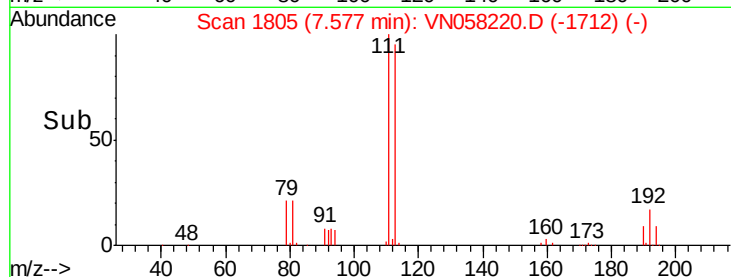
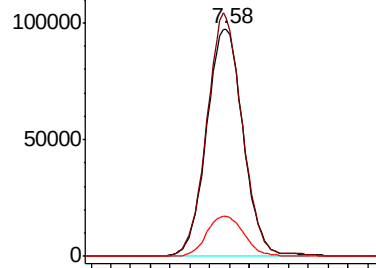
#35
 Dibromofluoromethane
 Concen: 50.495 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058220.D
 Acq: 19 Sep 2019 21:28

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.8	122.6
192	18.1	14.5	21.7

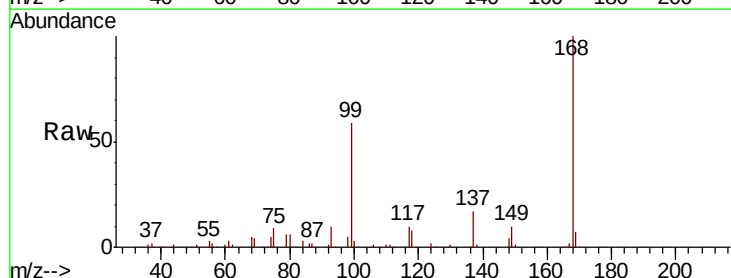


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

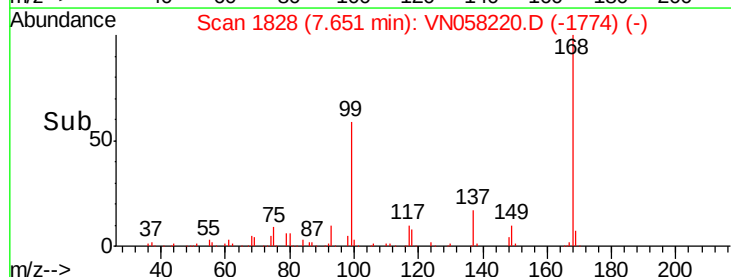
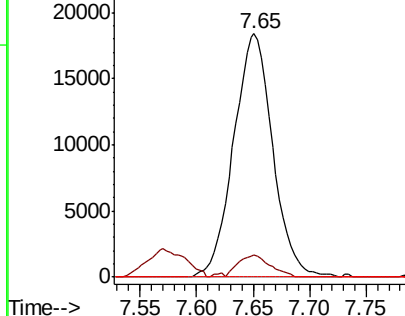


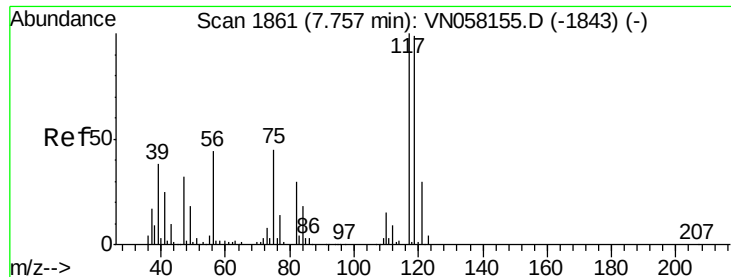
#36
 1,1-Dichloropropene
 Concen: 7.525 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058220.D
 Acq: 19 Sep 2019 21:28

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.4	16.6	49.7#
77	0.0	24.3	36.5#



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





#38

Carbon Tetrachloride

Concen: 8.520 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058220.D

Acq: 19 Sep 2019 21:28

Instrument :

MSVOA_N

ClientSampled :

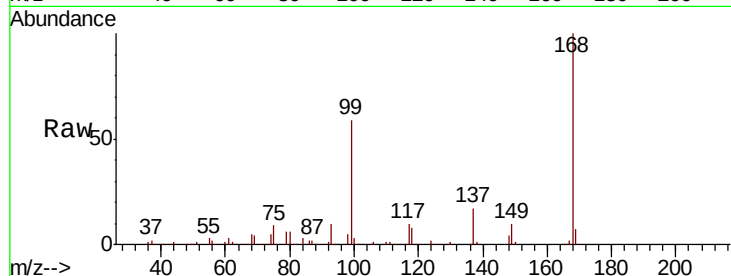
Tot Ion:117 Resp: 50367

Ion Ratio Lower Upper

117 100

119 4.0 78.6 117.8#

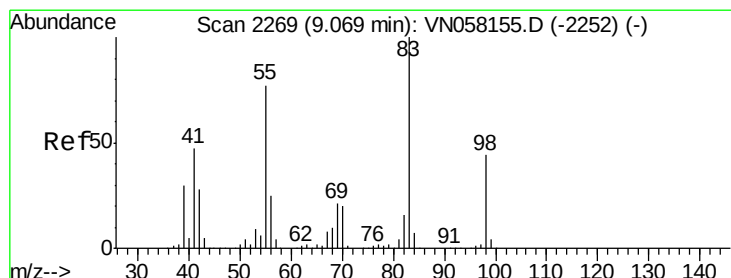
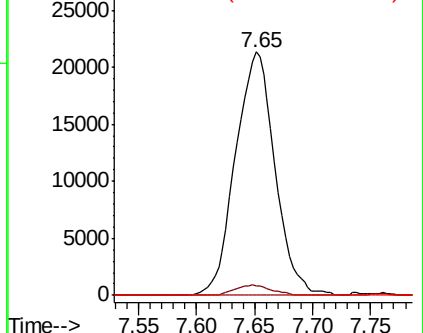
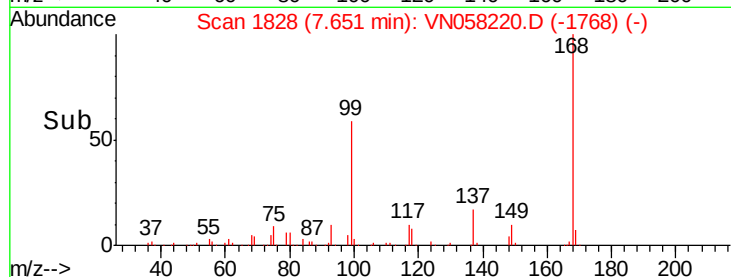
121 0.0 24.1 36.1#



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

Methylcyclohexane

Concen: 0.610 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. -0.24 min

Lab File: VN058220.D

Acq: 19 Sep 2019 21:28

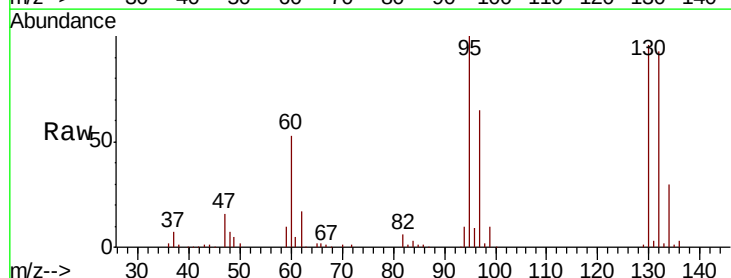
Tgt Ion: 83 Resp: 3068

Ion Ratio Lower Upper

83 100

55 0.0 61.9 92.9#

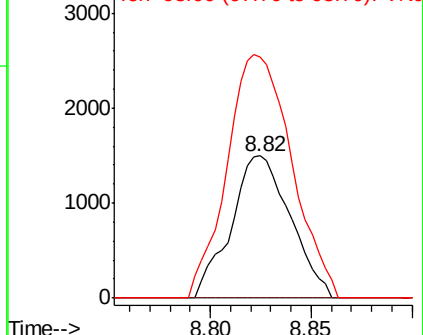
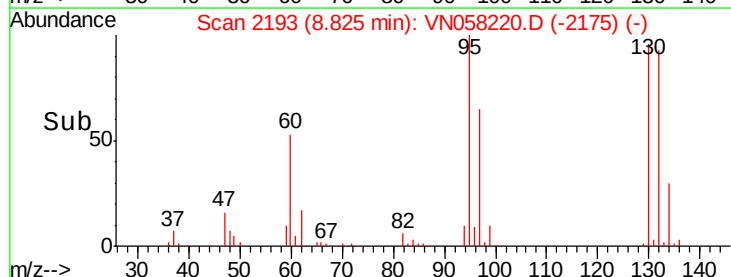
98 169.9 35.4 53.2#

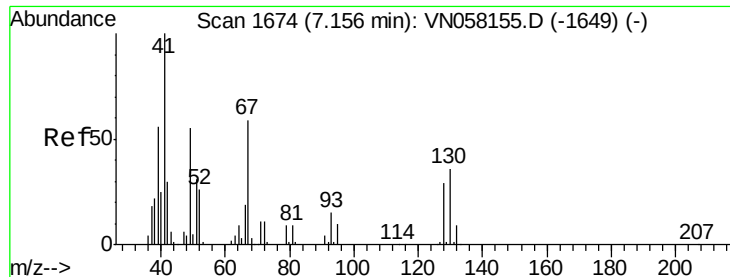


Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 98.00 (97.70 to 98.70): VN0

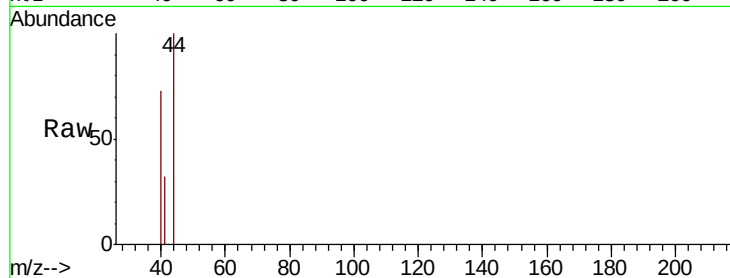




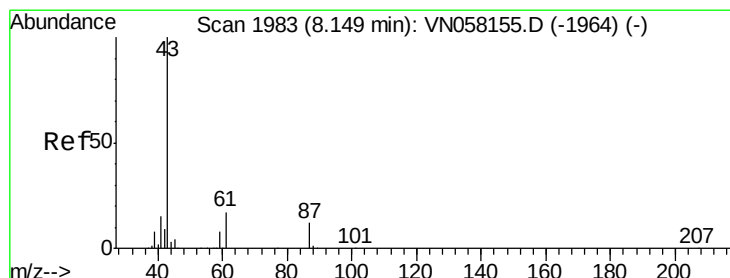
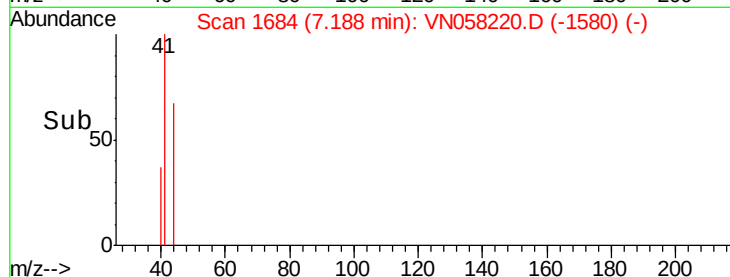
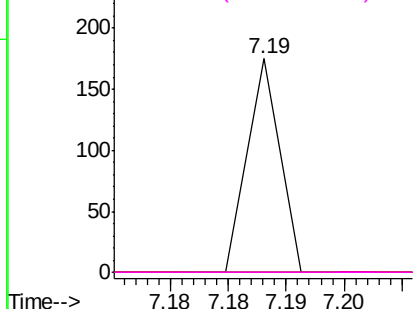
#41
Methacrylonitrile
Concen: 0.922 ug/l
RT: 7.19 min Scan# 1684
Delta R.T. 0.03 min
Lab File: VN058220.D
Acq: 19 Sep 2019 21:28

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	41	Resp:	34
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

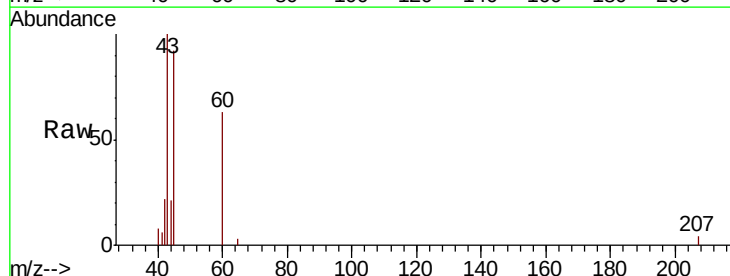


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO

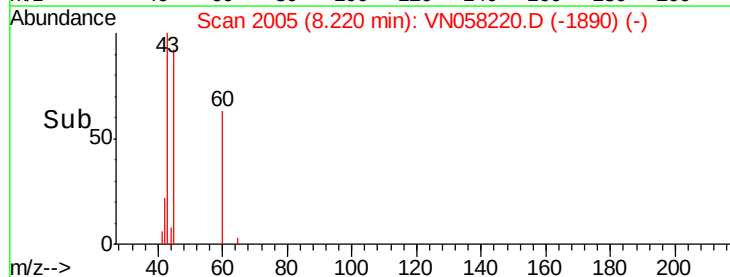
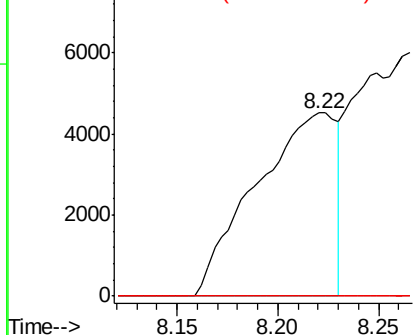


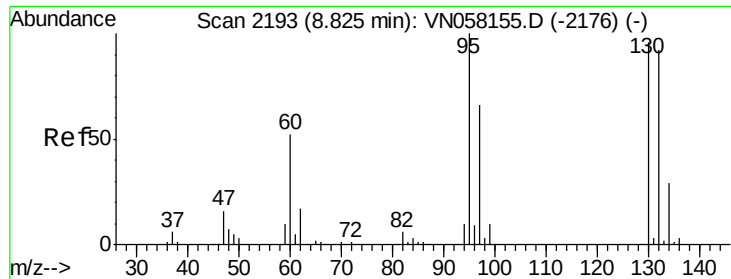
#43
Isopropyl Acetate
Concen: 1.107 ug/l
RT: 8.22 min Scan# 2005
Delta R.T. 0.07 min
Lab File: VN058220.D
Acq: 19 Sep 2019 21:28

Tgt Ion:	43	Resp:	12618
Ion	Ratio	Lower	Upper
43	100		
61	0.0	19.7	29.5#
87	0.0	9.4	14.2#



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





#44

Trichloroethene

Concen: 53.256 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VN058220.D

Acq: 19 Sep 2019 21:28

Instrument :

MSVOA_N

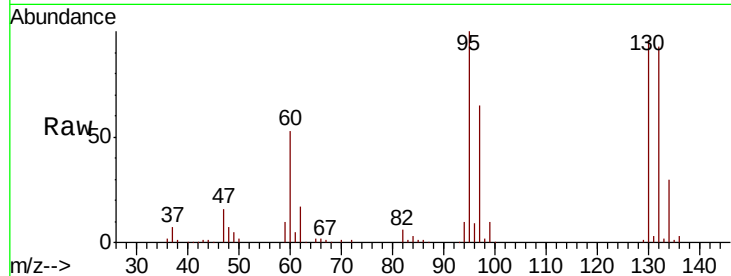
ClientSampleId :

Tot Ion:130 Resp: 234092

Ion Ratio Lower Upper

130 100

95 103.8 0.0 207.8



Abundance Ion 129.80 (129.50 to 130.50): VN058220.D (-2193) (-)

Ion 94.90 (94.60 to 95.60): VN058220.D (-2193) (-)

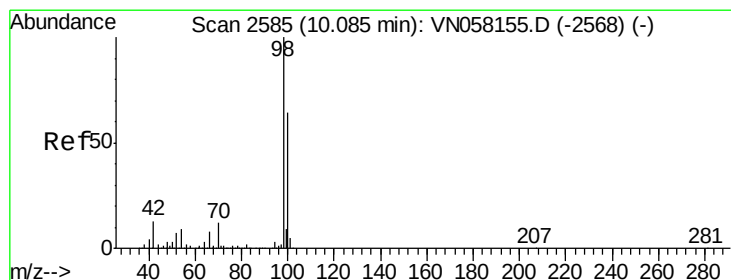
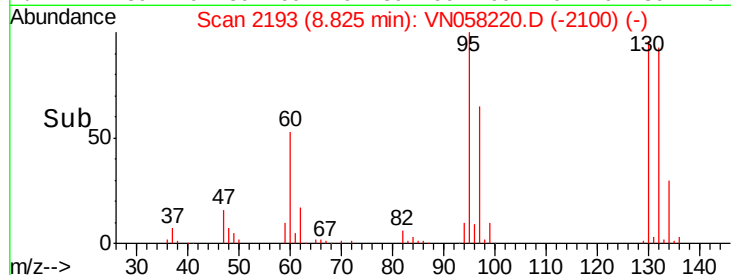
8.82

100000

50000

0

Time--> 8.70 8.80 8.90



#50

Toluene-d8

Concen: 52.814 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058220.D

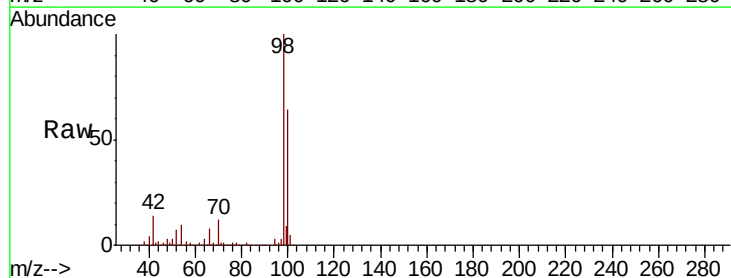
Acq: 19 Sep 2019 21:28

Tgt Ion: 98 Resp: 1020130

Ion Ratio Lower Upper

98 100

100 63.4 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN058220.D (-2585) (-)

Ion 100.00 (99.70 to 100.70): VN058220.D (-2585) (-)

10.09

600000

500000

400000

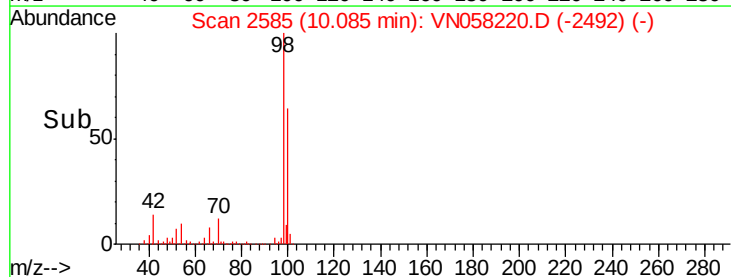
300000

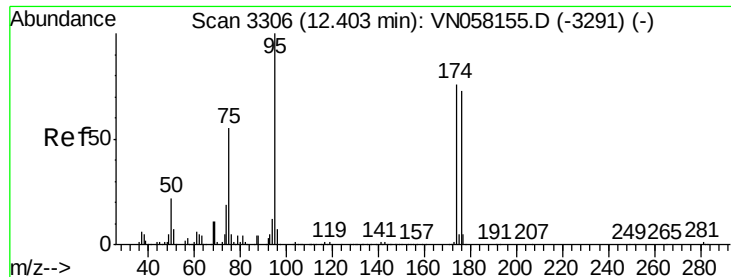
200000

100000

0

Time--> 10.00 10.10 10.20

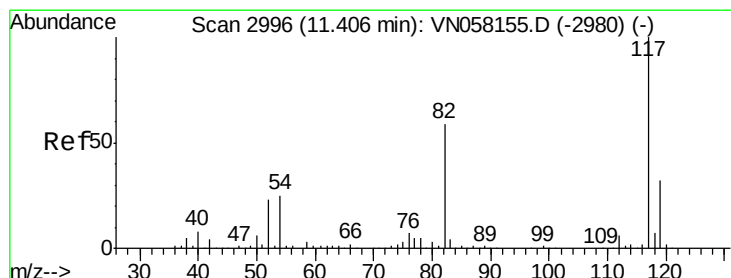
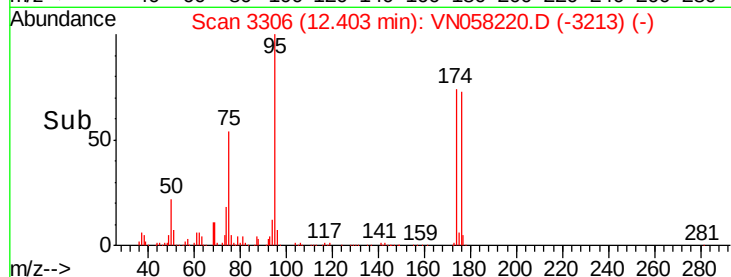
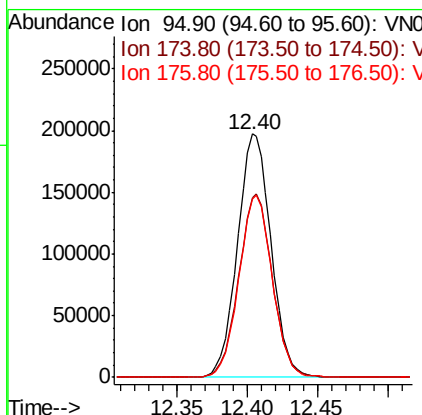
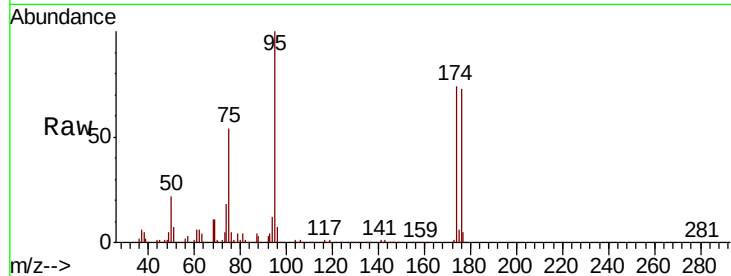




#62
4-Bromofluorobenzene
Concen: 45.801 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN058220.D
Acq: 19 Sep 2019 21:28

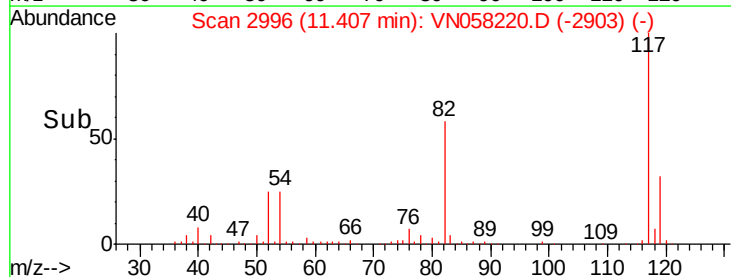
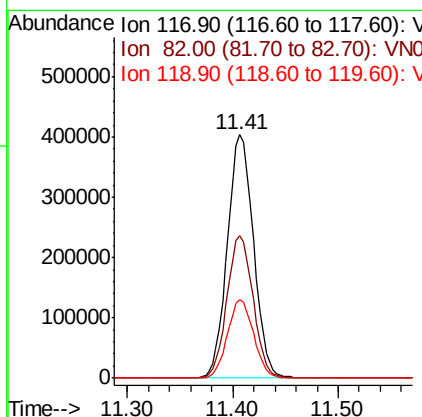
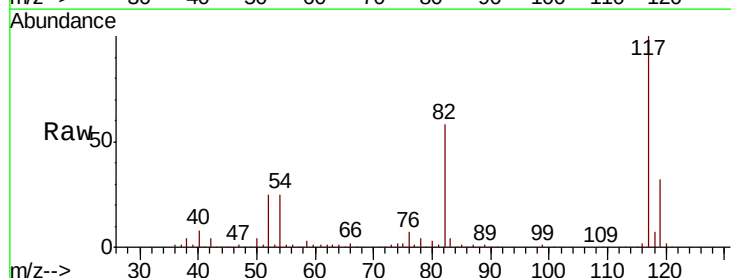
Instrument :
MSVOA_N
ClientSampled :

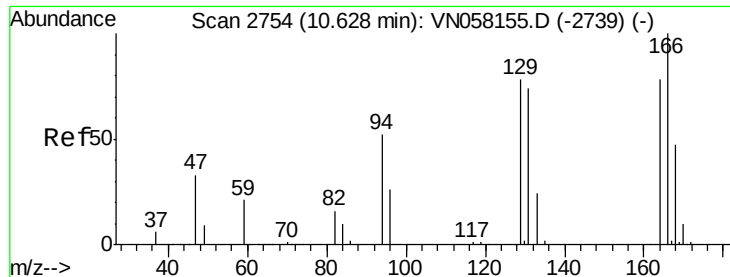
Tot Ion: 95 Resp: 328619
Ion Ratio Lower Upper
95 100
174 75.7 0.0 152.2
176 74.3 0.0 148.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058220.D
Acq: 19 Sep 2019 21:28

Tgt Ion: 117 Resp: 693333
Ion Ratio Lower Upper
117 100
82 58.3 46.9 70.3
119 32.0 25.3 37.9





#64

Tetrachloroethene

Concen: 0.209 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. 0.00 min

Lab File: VN058220.D

Acq: 19 Sep 2019 21:28

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:164 Resp: 706

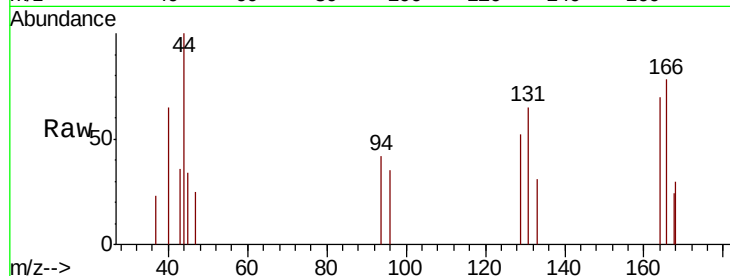
Ion Ratio Lower Upper

164 100

166 111.8 102.2 153.4

129 74.3 79.6 119.4#

131 92.2 76.0 114.0



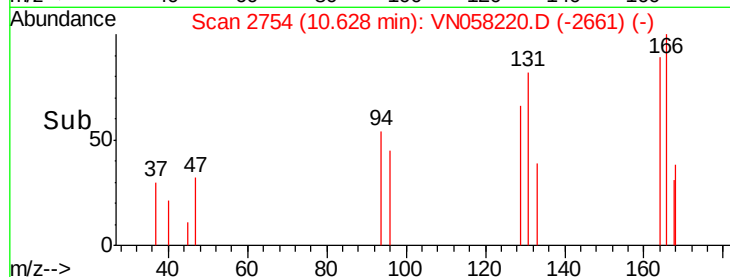
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

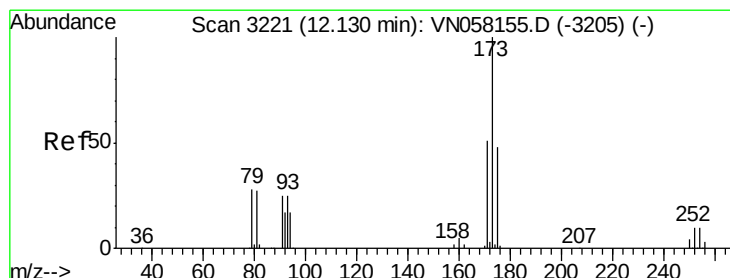
Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V

Time-->



Time-->



#71

Bromoform

Concen: 3.642 ug/l

RT: 12.39 min Scan# 3301

Delta R.T. 0.26 min

Lab File: VN058220.D

Acq: 19 Sep 2019 21:28

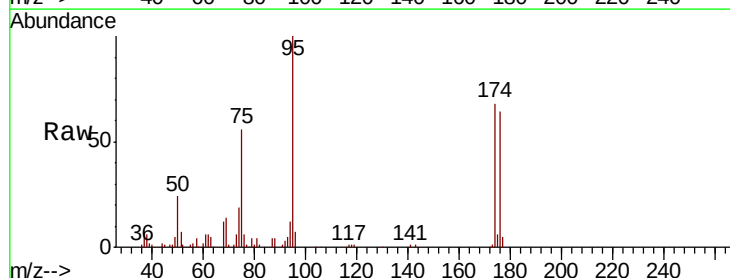
Tgt Ion:173 Resp: 166

Ion Ratio Lower Upper

173 100

175 0.0 24.2 72.6#

254 0.0 0.1 0.1#

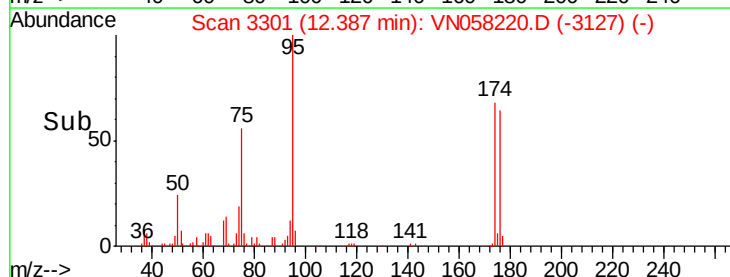


Abundance Ion 172.70 (172.40 to 173.40): V

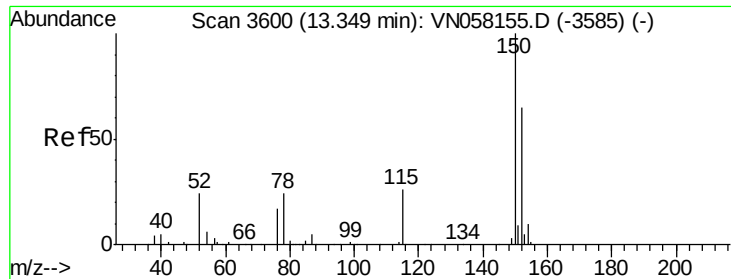
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V

Time-->



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058220.D

Acq: 19 Sep 2019 21:28

Instrument :

MSVOA_N

ClientSampled :

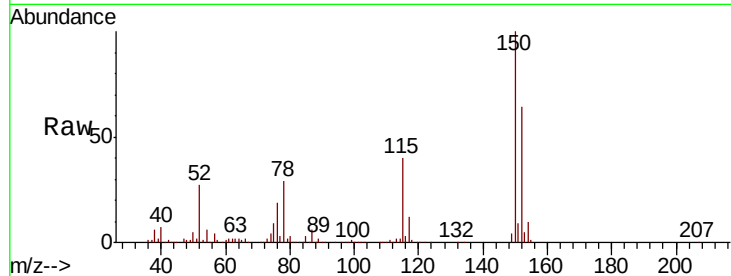
Tot Ion:152 Resp: 290327

Ion Ratio Lower Upper

152 100

115 61.2 30.1 90.3

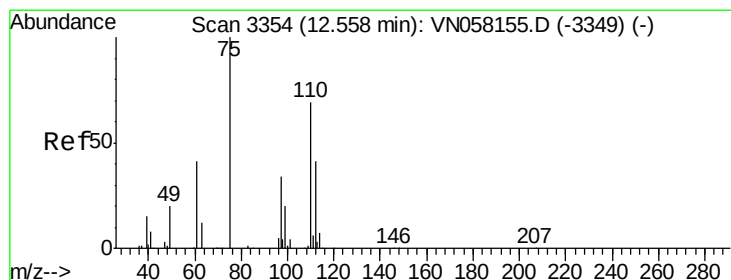
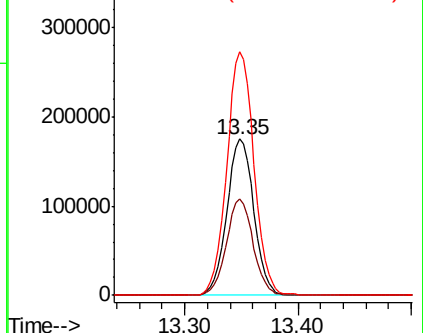
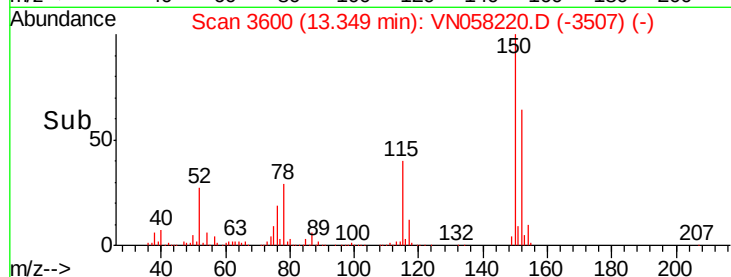
150 156.5 0.0 346.4



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: 34.631 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058220.D

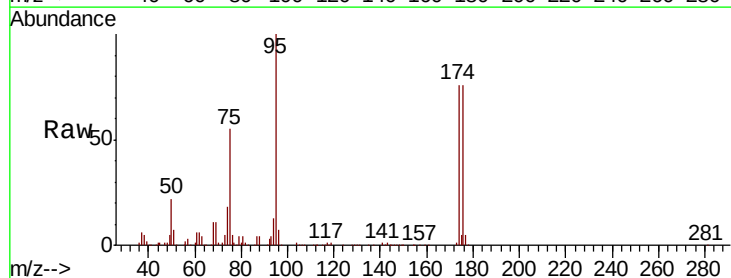
Acq: 19 Sep 2019 21:28

Tgt Ion: 75 Resp: 179941

Ion Ratio Lower Upper

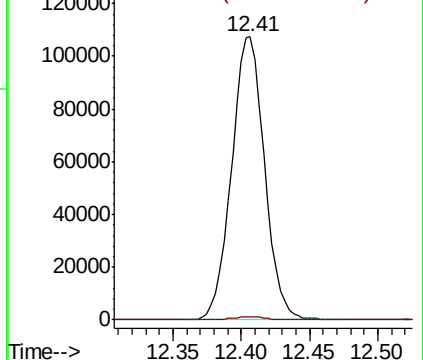
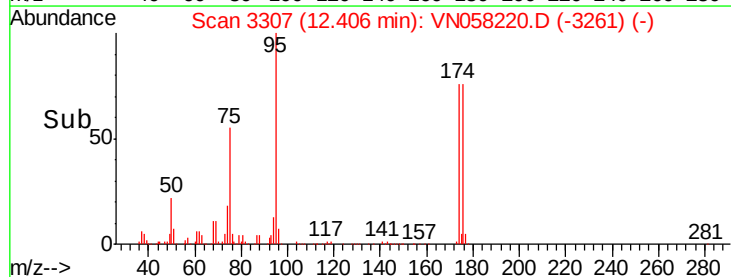
75 100

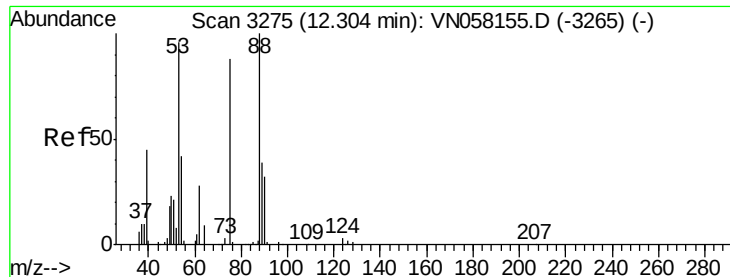
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 96.936 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058220.D

Acq: 19 Sep 2019 21:28

Instrument :

MSVOA_N

ClientSampleId :

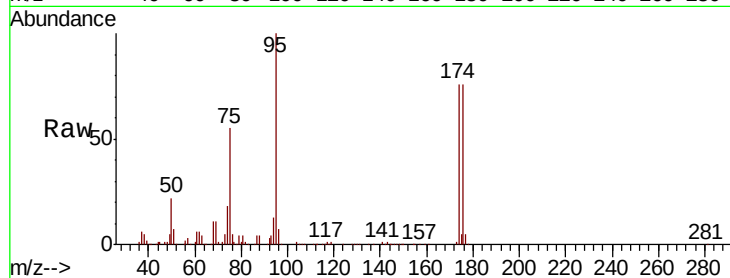
Tot Ion: 75 Resp: 179941

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

89 0.0 36.2 54.2#



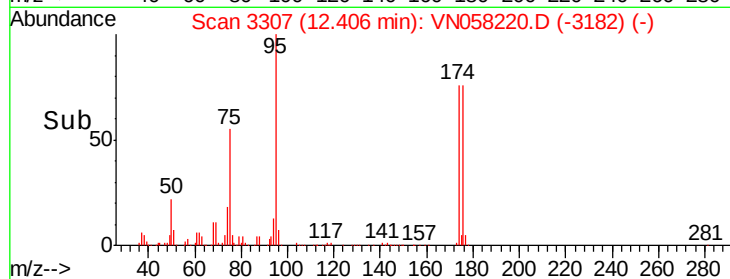
Abundance

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

12.41



Time-->