

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091919\
 Data File : VN058194.D
 Acq On : 19 Sep 2019 10:56
 Operator : JC/SP
 Sample : K4896-17
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 20 01:48:35 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	537364	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	862172	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	726664	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	285670	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	357868	47.82	ug/l	0.00
Spiked Amount						
			Recovery	=	95.64%	
35) Dibromofluoromethane	7.57	113	248496	47.41	ug/l	0.00
Spiked Amount						
			Recovery	=	94.82%	
50) Toluene-d8	10.09	98	1009970	49.46	ug/l	0.00
Spiked Amount						
			Recovery	=	98.92%	
62) 4-Bromofluorobenzene	12.40	95	316297	41.70	ug/l	0.00
Spiked Amount						
			Recovery	=	83.40%	

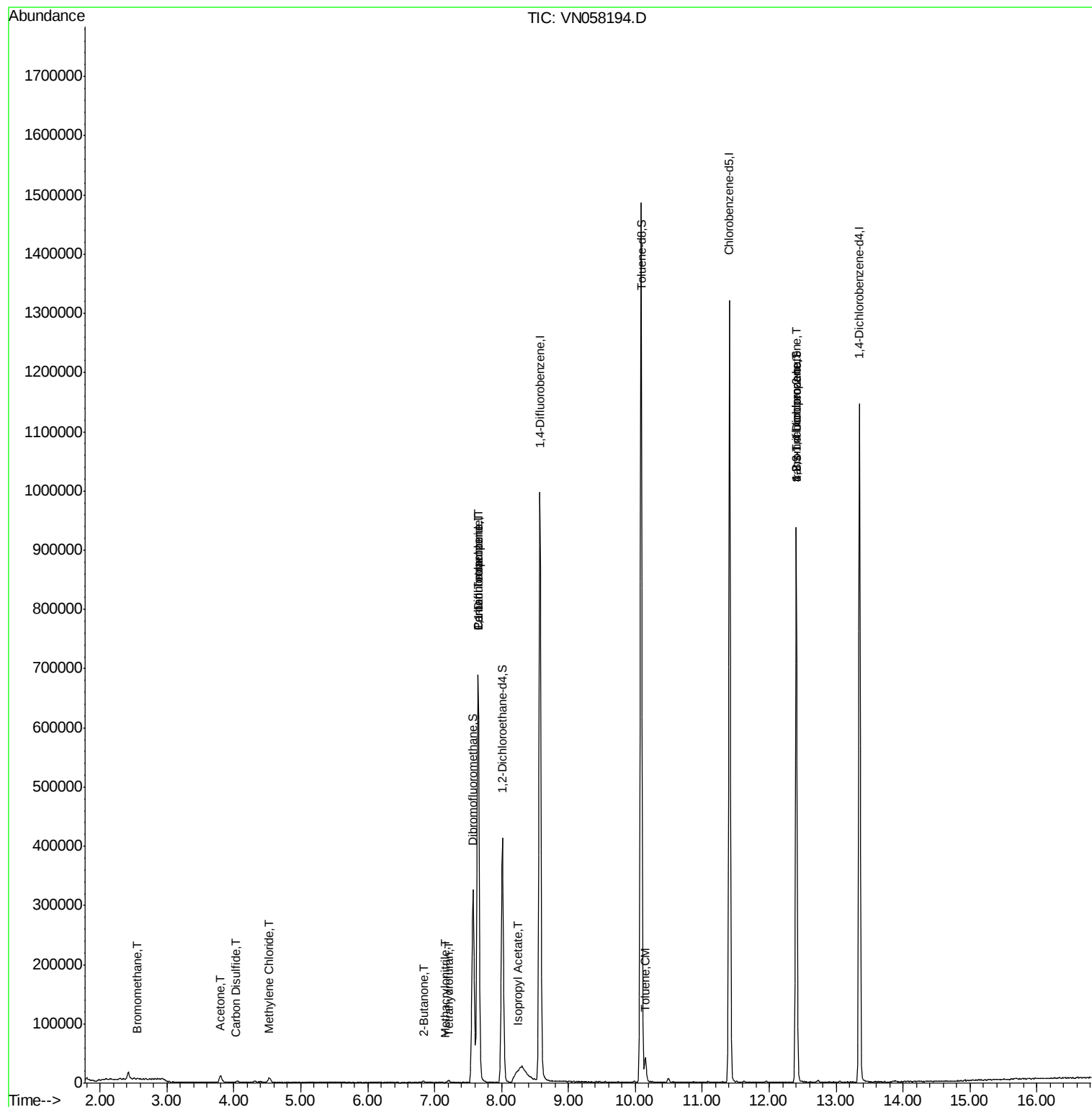
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	953	Below Cal		90
5) Bromomethane	2.56	94	283	0.864 ug/l #		4
6) Chloroethane	2.72	64	29	Below Cal #		44
16) Acetone	3.80	43	20866	8.213 ug/l		94
17) Carbon Disulfide	4.02	76	123	0.297 ug/l #		74
20) Methylene Chloride	4.53	84	5748	1.075 ug/l		93
25) 2-Butanone	6.83	43	4119	1.190 ug/l		99
29) Tetrahydrofuran	7.21	42	2541	1.192 ug/l #		65
31) Cyclohexane	7.65	56	13406	Below Cal #		20
36) 1,1-Dichloropropene	7.65	75	45795	7.365 ug/l #		50
38) Carbon Tetrachloride	7.65	117	54630	8.741 ug/l #		14
41) Methacrylonitrile	7.16	41	59	0.929 ug/l #		100
43) Isopropyl Acetate	8.23	43	22086	1.833 ug/l #		57
52) Toluene	10.15	92	15820	1.329 ug/l		97
76) 1,2,3-Trichloropropane	12.40	75	172926	33.824 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	172926	94.811 ug/l #		5

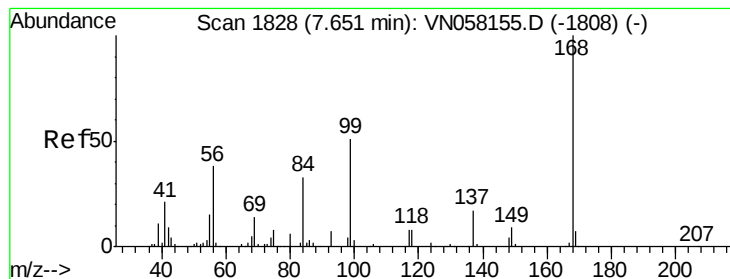
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058194.D

Acq: 19 Sep 2019 10:56

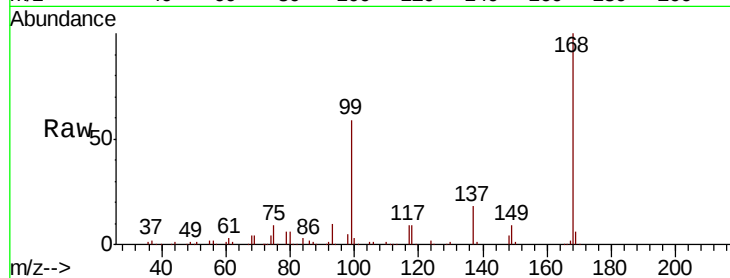
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 537364

Ion Ratio Lower Upper

168 100

99 58.8 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

250000

200000

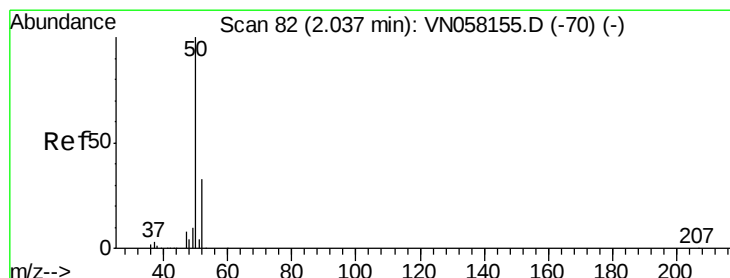
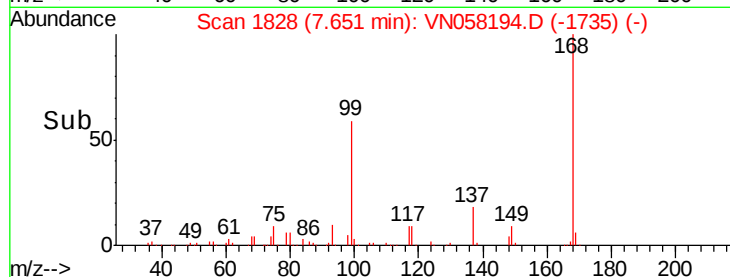
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058194.D

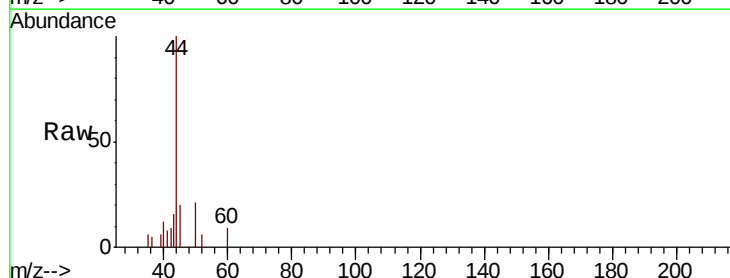
Acq: 19 Sep 2019 10:56

Tgt Ion: 50 Resp: 953

Ion Ratio Lower Upper

50 100

52 27.2 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

800

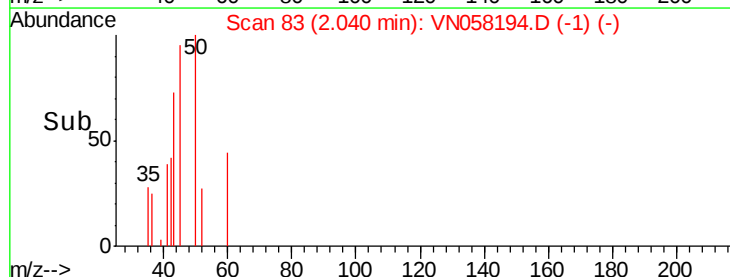
600

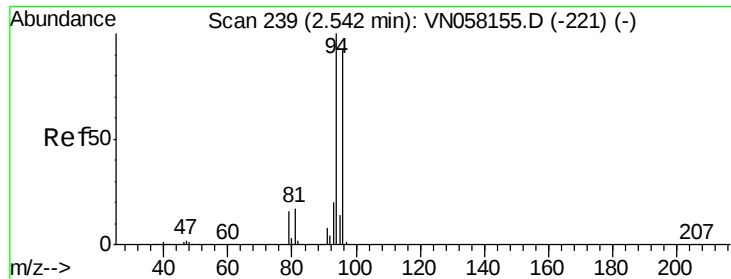
400

200

0

Time--> 2.00 2.02 2.04 2.06





#5

Bromomethane

Concen: 0.864 ug/l

RT: 2.56 min Scan# 245

Delta R.T. 0.02 min

Lab File: VN058194.D

Acq: 19 Sep 2019 10:56

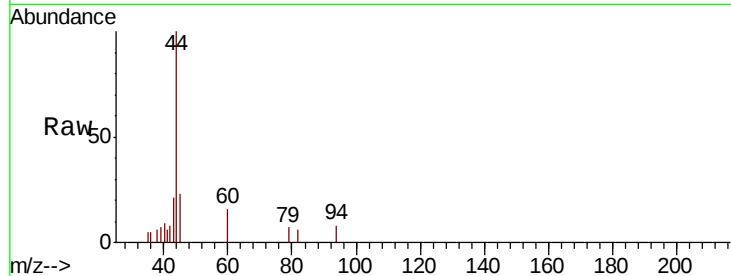
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 94 Resp: 283

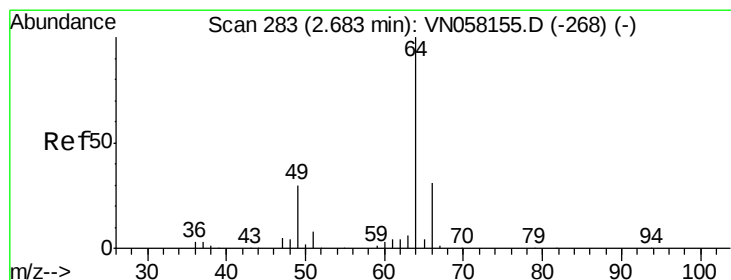
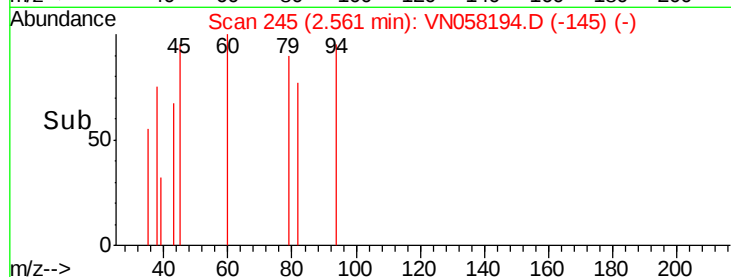
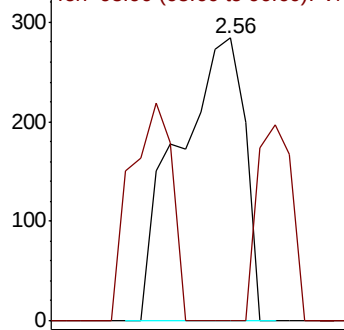
Ion Ratio Lower Upper

94 100

96 0.0 73.3 109.9#



Abundance Ion 93.90 (93.60 to 94.60): VN0
Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: Below Cal

RT: 2.72 min Scan# 295

Delta R.T. 0.04 min

Lab File: VN058194.D

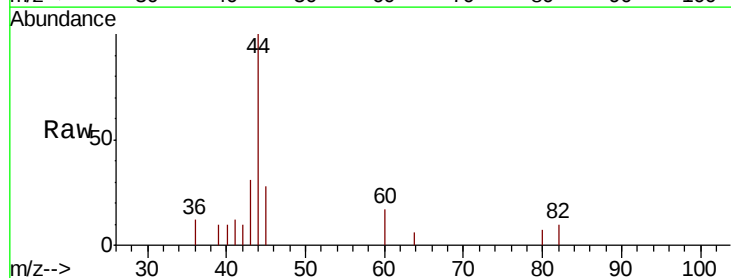
Acq: 19 Sep 2019 10:56

Tgt Ion: 64 Resp: 29

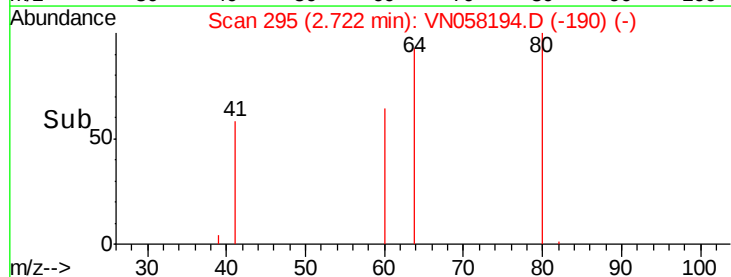
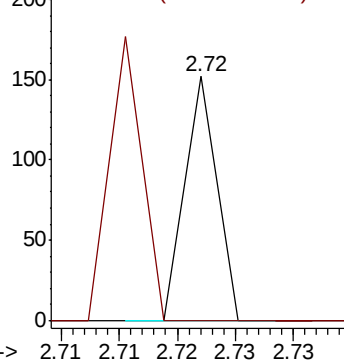
Ion Ratio Lower Upper

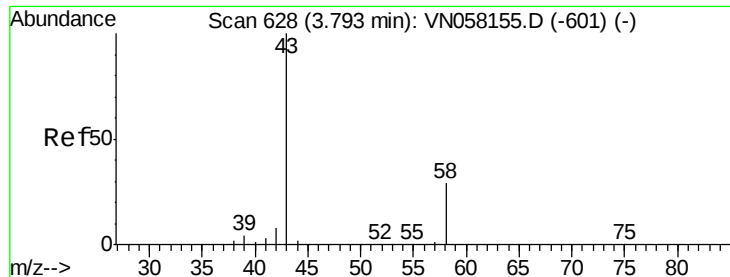
64 100

66 0.0 24.6 37.0#



Abundance Ion 63.90 (63.60 to 64.60): VN0
Ion 65.90 (65.60 to 66.60): VN0





#16

Acetone

Concen: 8.213 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN058194.D

Acq: 19 Sep 2019 10:56

Instrument :

MSVOA_N

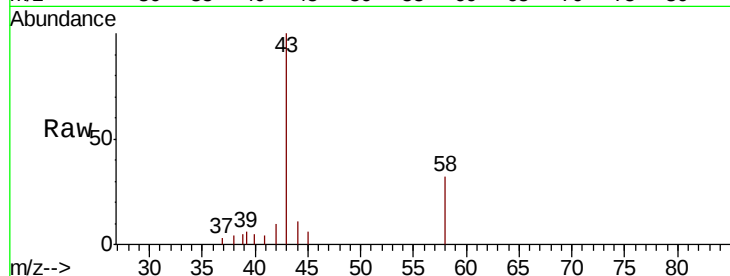
ClientSampleId :

Tot Ion: 43 Resp: 20866

Ion Ratio Lower Upper

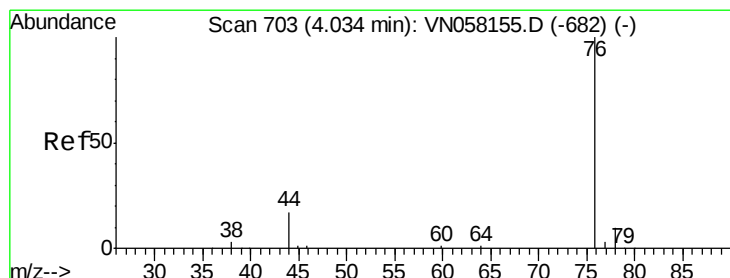
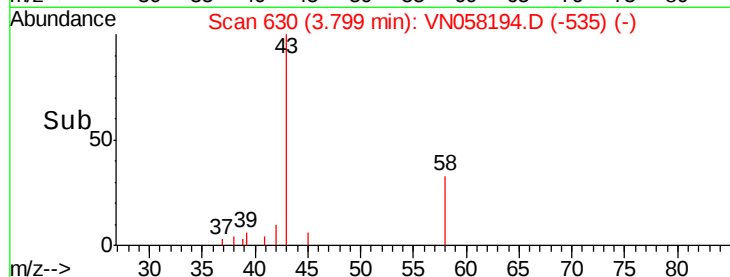
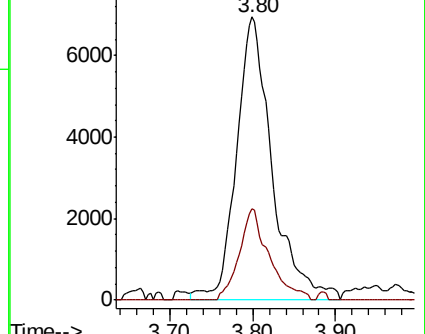
43 100

58 32.4 23.4 35.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 0.297 ug/l

RT: 4.02 min Scan# 700

Delta R.T. -0.01 min

Lab File: VN058194.D

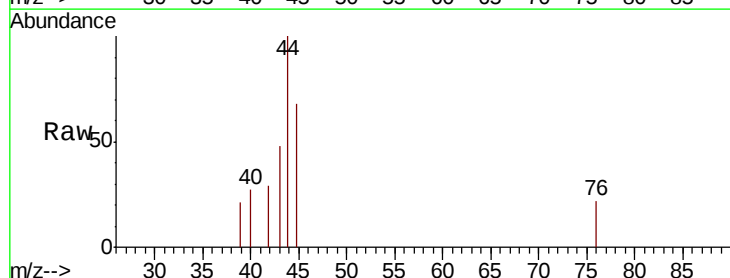
Acq: 19 Sep 2019 10:56

Tgt Ion: 76 Resp: 123

Ion Ratio Lower Upper

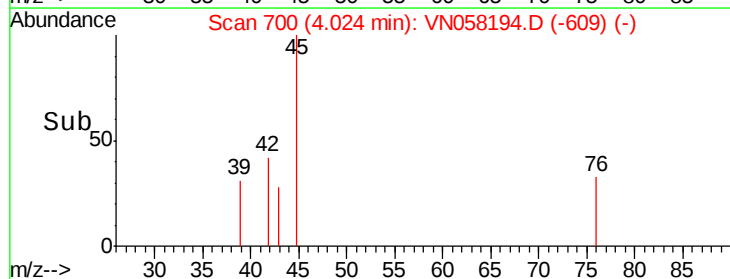
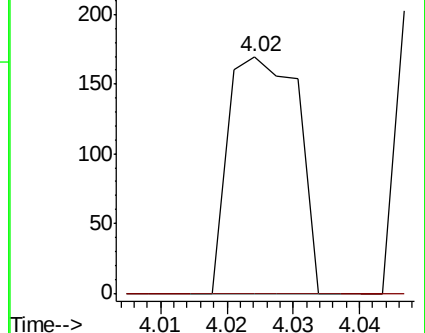
76 100

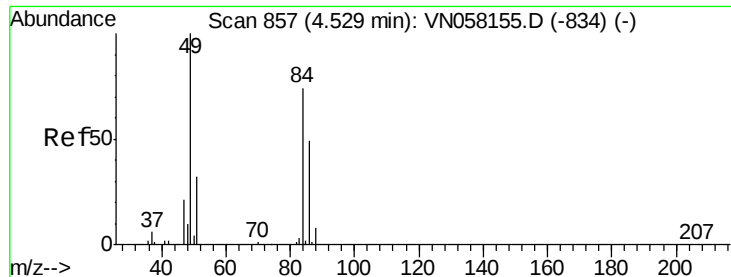
78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

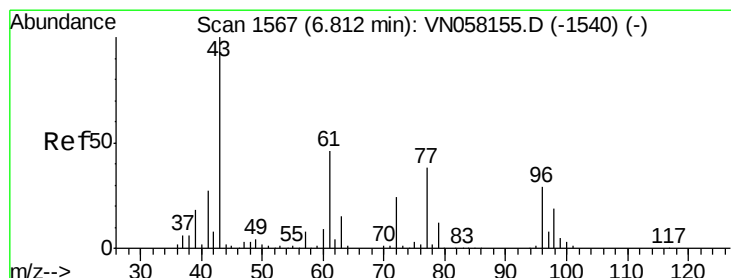
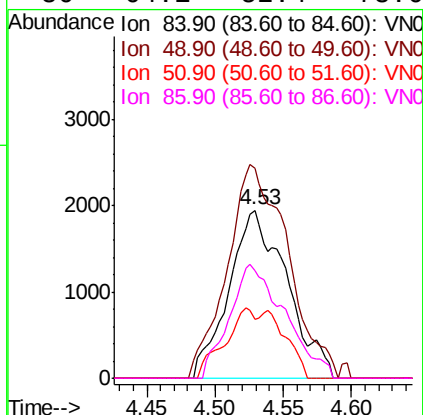
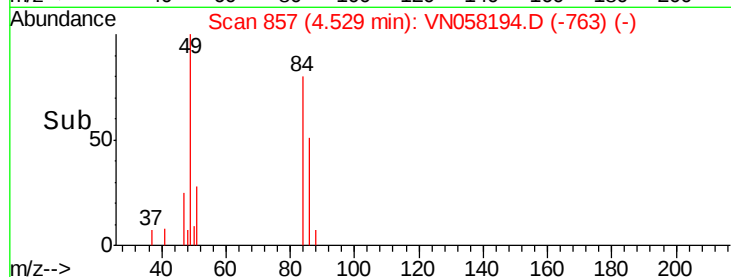
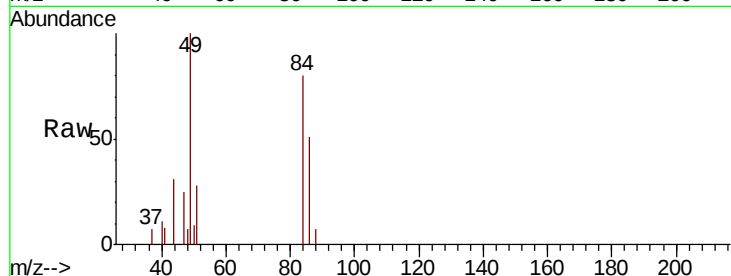




#20
Methvlene Chloride
Concen: 1.075 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058194.D
Acq: 19 Sep 2019 10:56

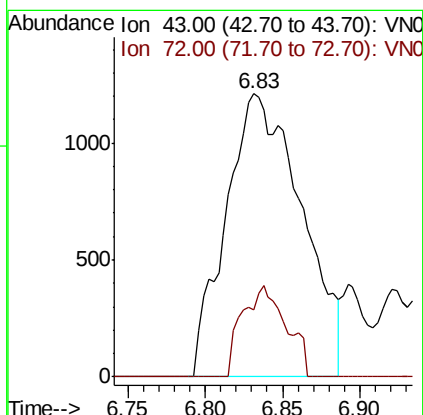
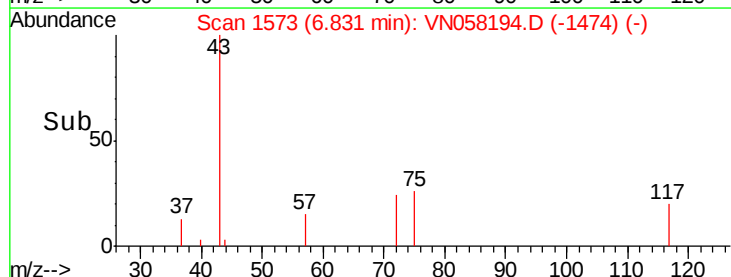
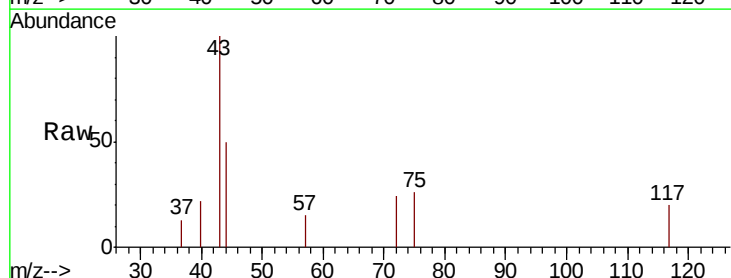
Instrument :
MSVOA_N
ClientSampled :

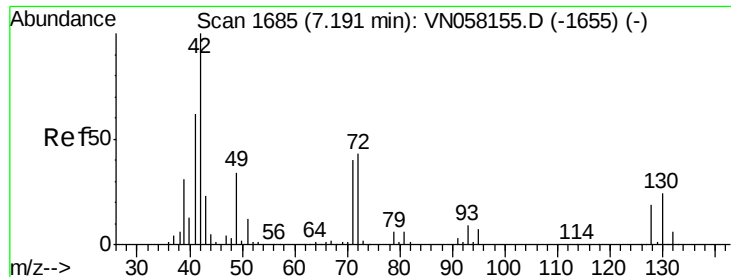
Tot Ion:	84	Resp:	5748
Ion	Ratio	Lower	Upper
84	100		
49	124.8	107.5	161.3
51	35.2	33.9	50.9
86	64.1	52.4	78.6



#25
2-Butanone
Concen: 1.190 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.02 min
Lab File: VN058194.D
Acq: 19 Sep 2019 10:56

Tgt Ion:	43	Resp:	4119
Ion	Ratio	Lower	Upper
43	100		
72	23.8	19.5	29.3





#29

Tetrahydrofuran

Concen: 1.192 ug/l

RT: 7.21 min Scan# 1690

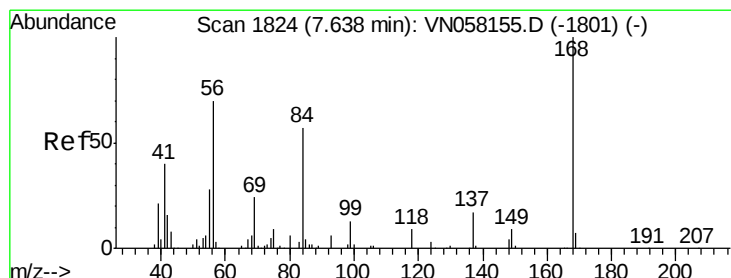
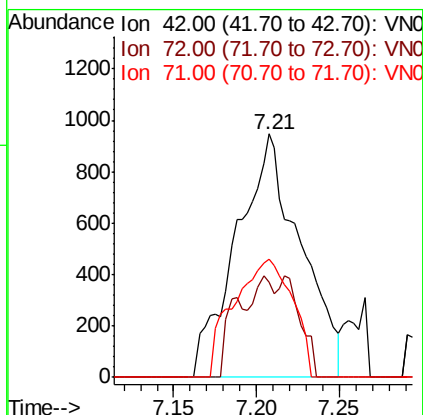
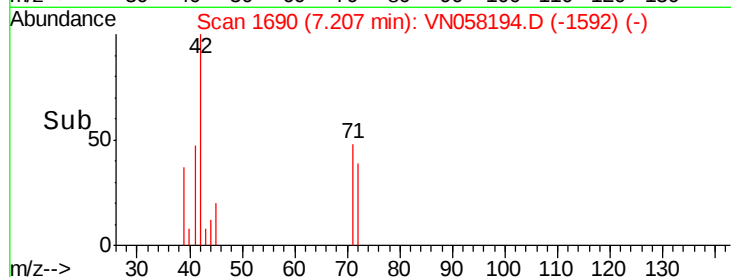
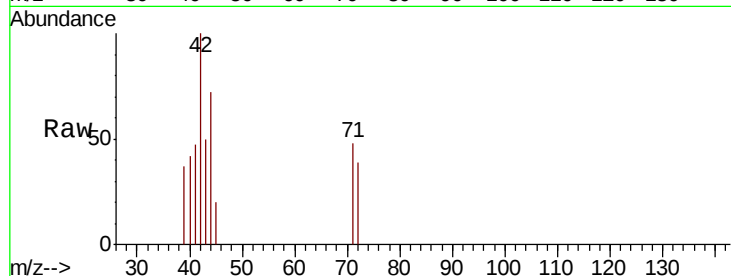
Delta R.T. 0.02 min

Lab File: VN058194.D

Acq: 19 Sep 2019 10:56

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 42 Resp: 2541
Ion Ratio Lower Upper
42 100
72 4.8 33.8 50.6#
71 44.7 31.4 47.0



#31

Cyclohexane

Concen: Below Cal

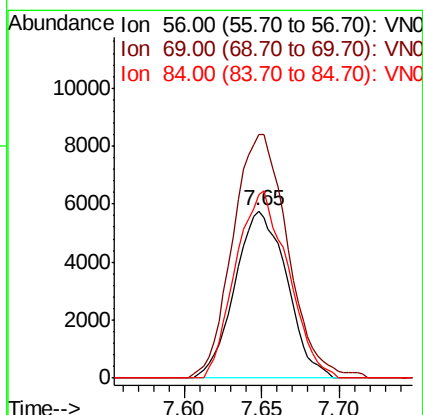
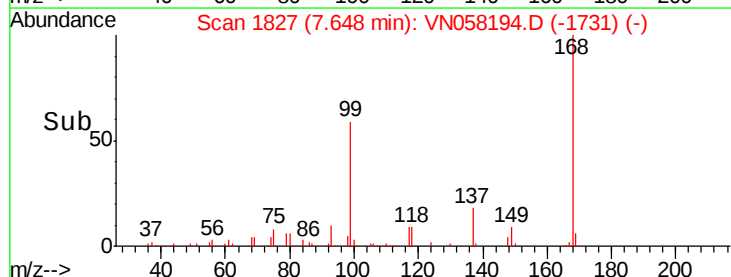
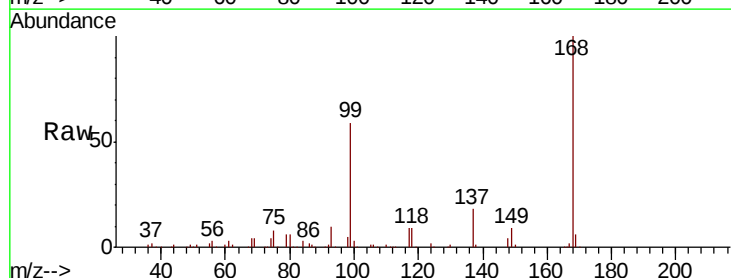
RT: 7.65 min Scan# 1827

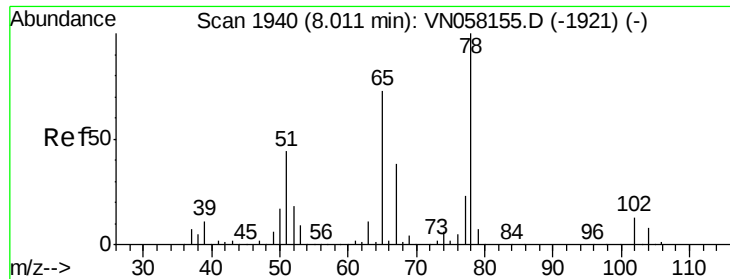
Delta R.T. 0.01 min

Lab File: VN058194.D

Acq: 19 Sep 2019 10:56

Tgt Ion: 56 Resp: 13406
Ion Ratio Lower Upper
56 100
69 145.5 27.3 40.9#
84 109.4 65.0 97.4#

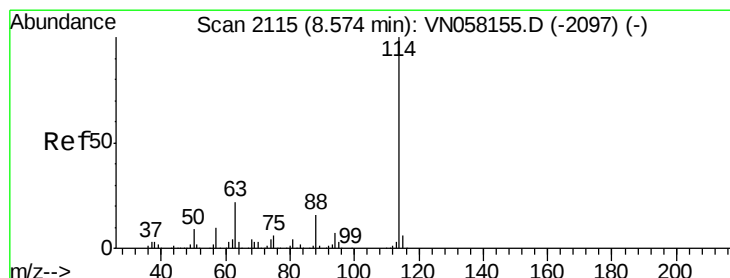
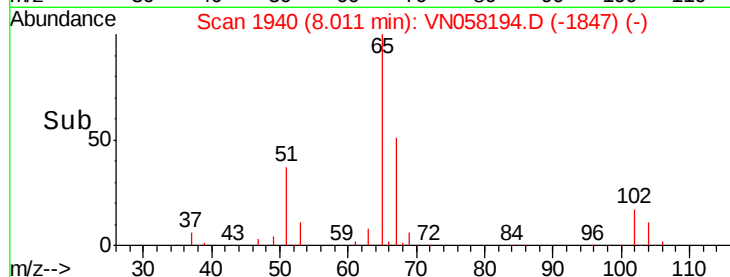
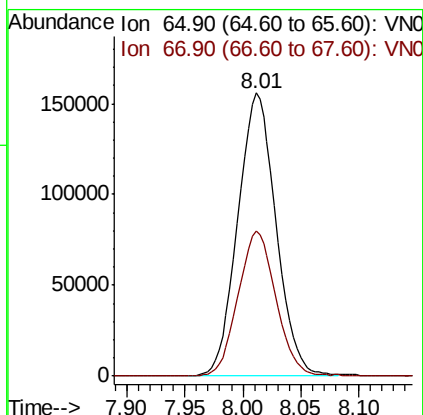
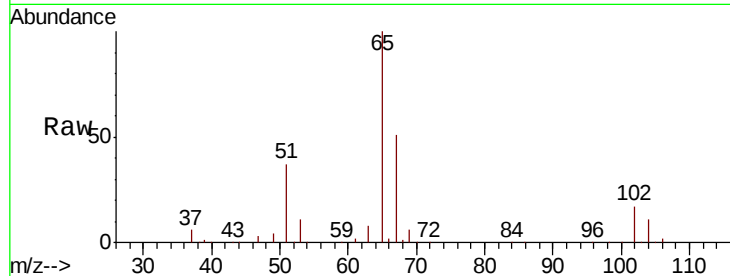




#33
 1,2-Dichloroethane-d4
 Concen: 47.815 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058194.D
 Acq: 19 Sep 2019 10:56

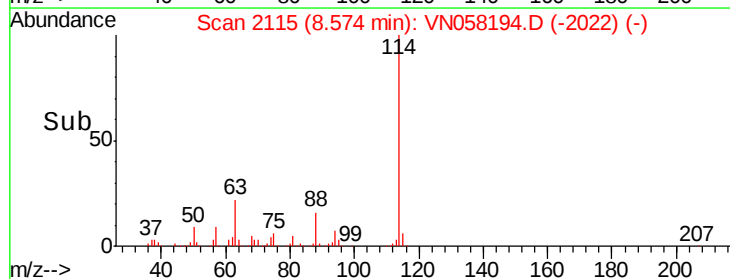
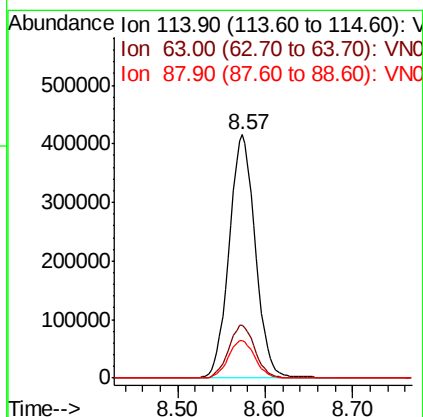
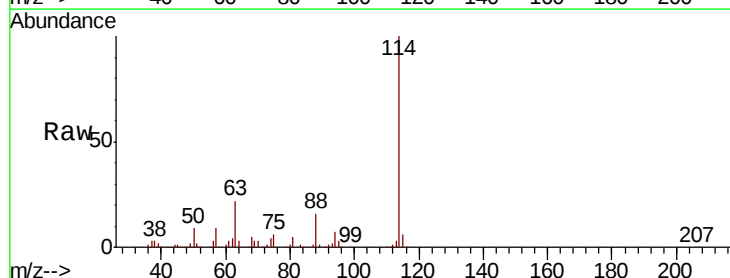
Instrument :
 MSVOA_N
 ClientSampled :

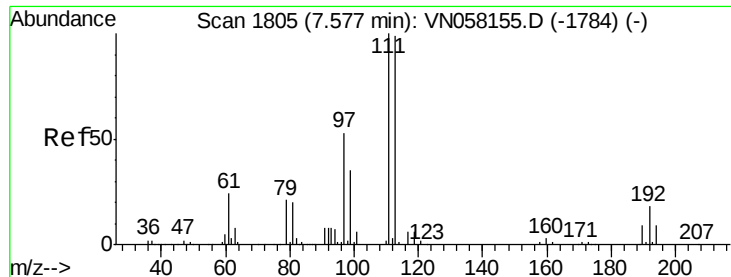
Tot Ion: 65 Resp: 357868
 Ion Ratio Lower Upper
 65 100
 67 50.7 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058194.D
 Acq: 19 Sep 2019 10:56

Tgt Ion: 114 Resp: 862172
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 44.2
 88 15.7 0.0 31.6

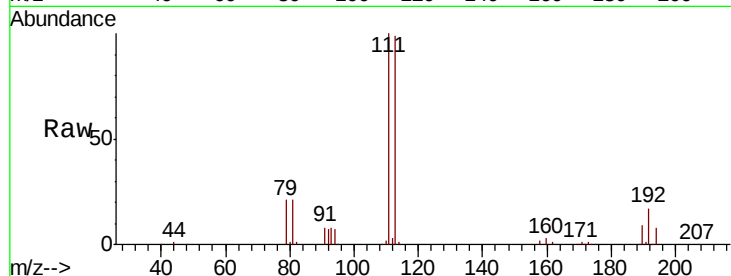




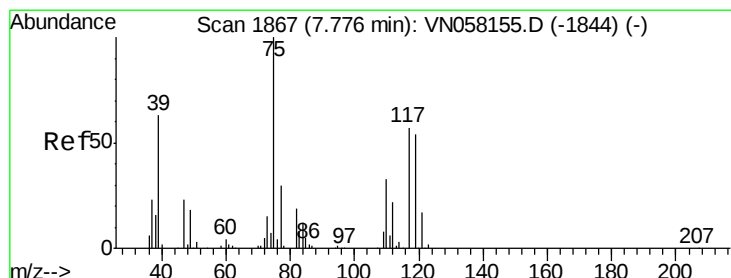
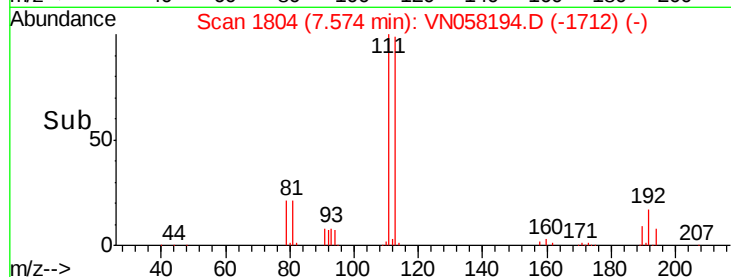
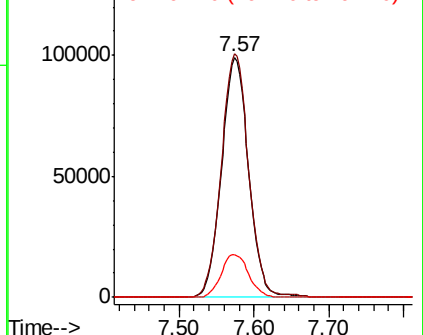
#35
 Dibromofluoromethane
 Concen: 47.411 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058194.D
 Acq: 19 Sep 2019 10:56

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.8	122.6
192	18.2	14.5	21.7

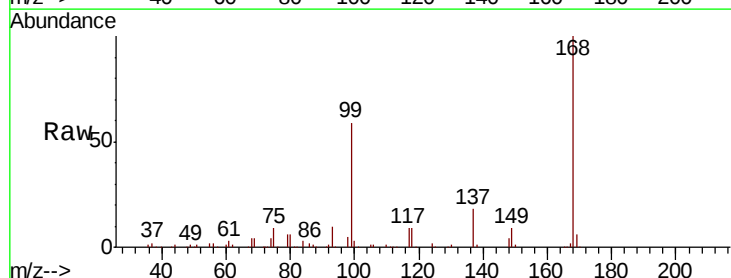


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

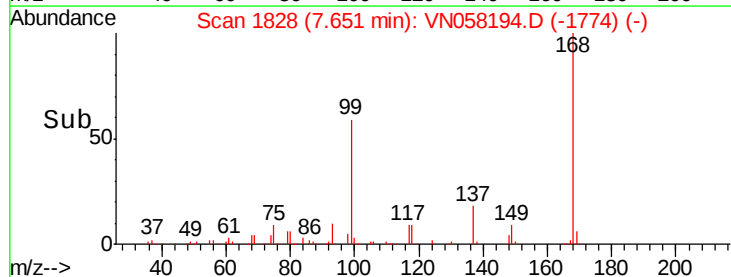
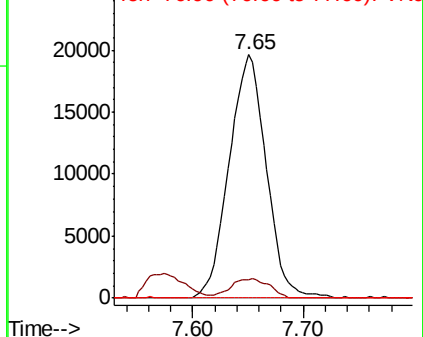


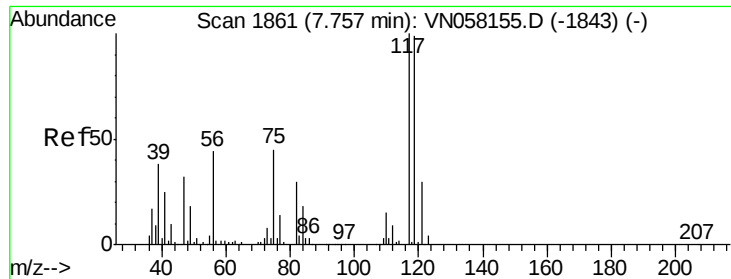
#36
 1,1-Dichloropropene
 Concen: 7.365 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058194.D
 Acq: 19 Sep 2019 10:56

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.3	16.6	49.7#
77	0.0	24.3	36.5#



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





#38

Carbon Tetrachloride

Concen: 8.741 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.10 min

Lab File: VN058194.D

Acq: 19 Sep 2019 10:56

Instrument :
MSVOA_N
ClientSampled :

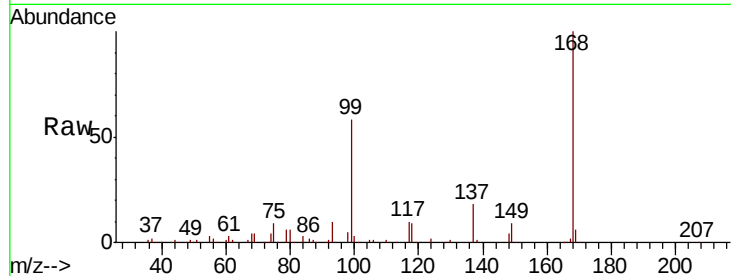
Tot Ion:117 Resp: 54630

Ion Ratio Lower Upper

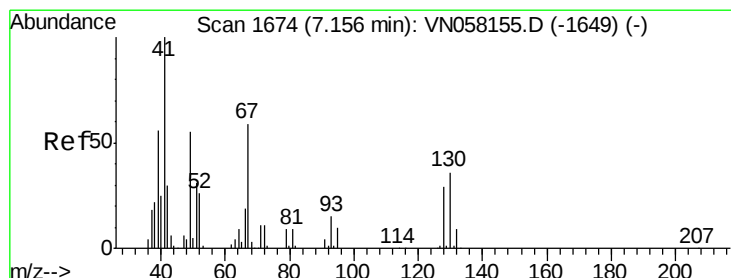
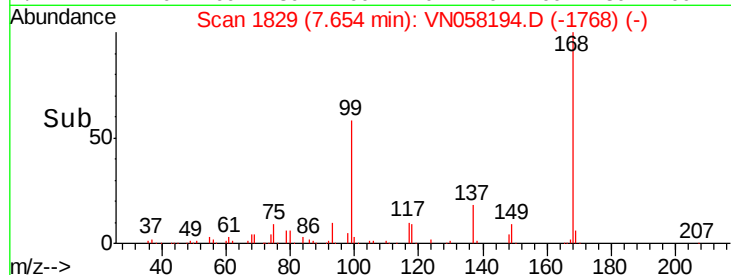
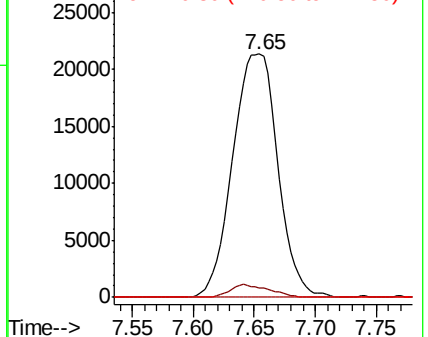
117 100

119 4.1 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



#41

Methacrylonitrile

Concen: 0.929 ug/l

RT: 7.16 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VN058194.D

Acq: 19 Sep 2019 10:56

Tgt Ion: 41 Resp: 59

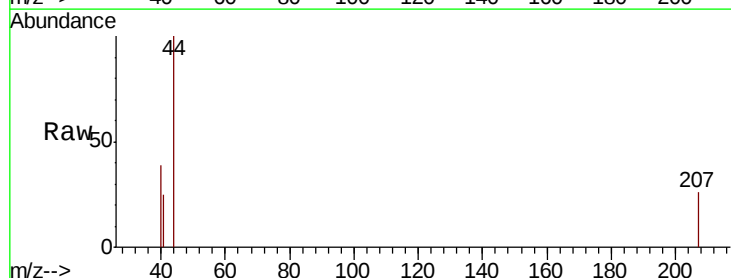
Ion Ratio Lower Upper

41 100

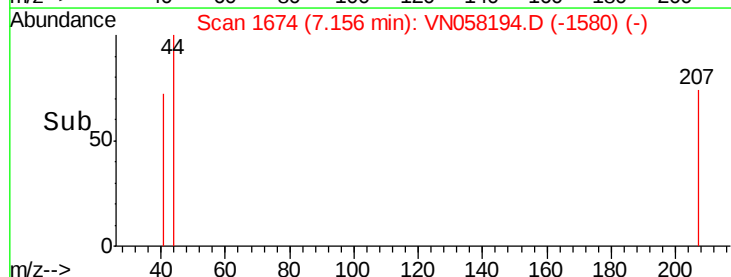
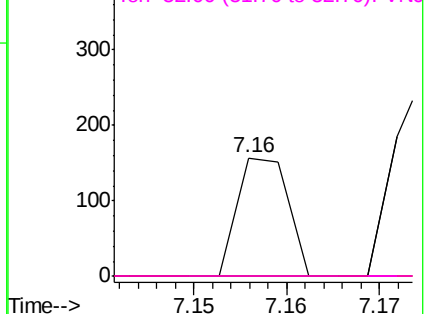
39 0.0 0.0 0.0

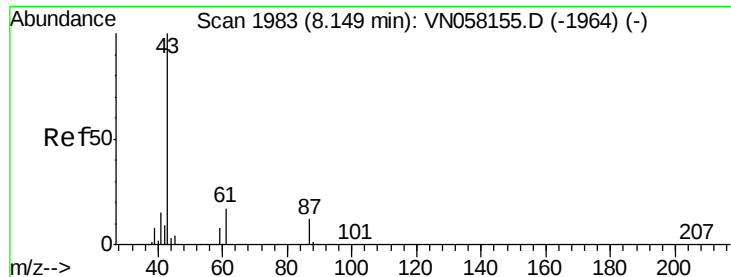
67 0.0 0.0 0.0

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: 1.833 ug/l

RT: 8.23 min Scan# 2009

Delta R.T. 0.08 min

Lab File: VN058194.D

Acq: 19 Sep 2019 10:56

Instrument :

MSVOA_N

ClientSampleId :

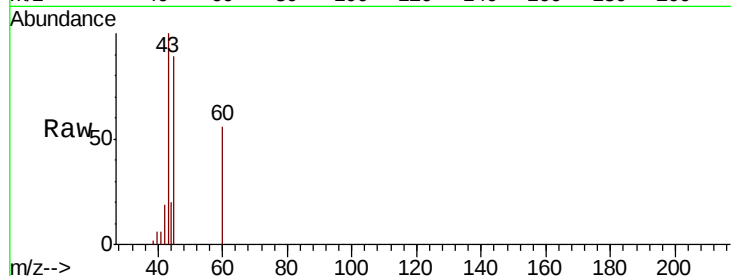
Tot Ion: 43 Resp: 22086

Ion Ratio Lower Upper

43 100

61 0.0 19.7 29.5#

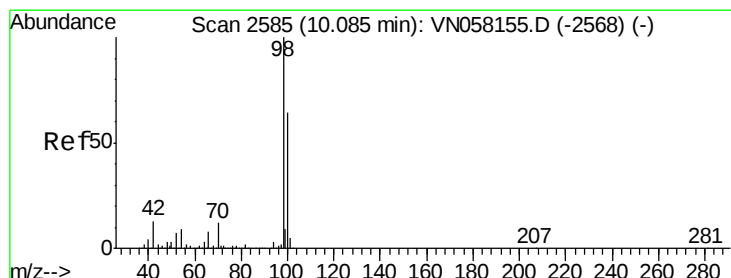
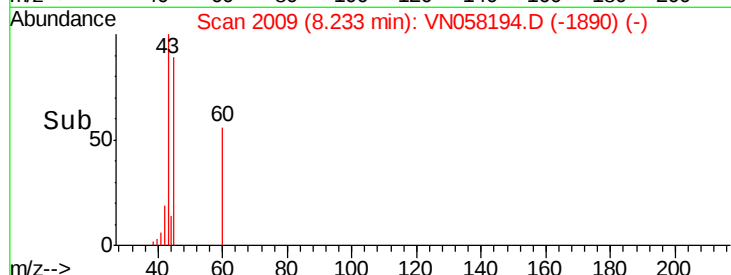
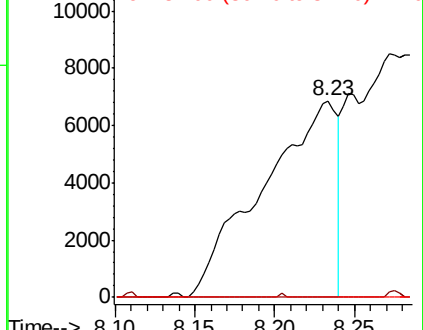
87 0.0 9.4 14.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 49.457 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058194.D

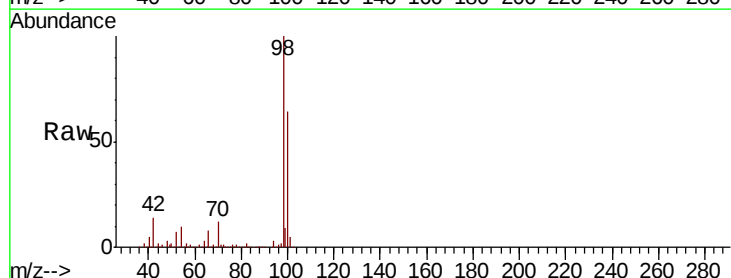
Acq: 19 Sep 2019 10:56

Tgt Ion: 98 Resp: 1009970

Ion Ratio Lower Upper

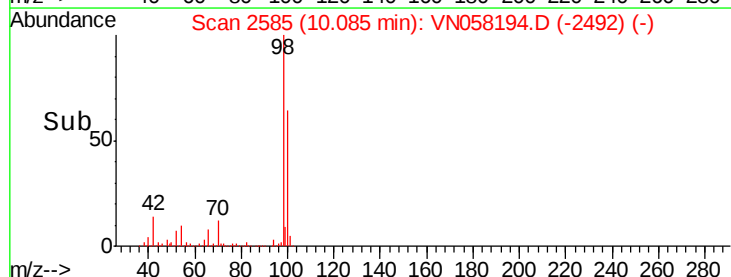
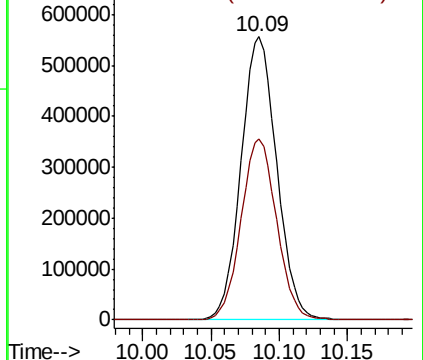
98 100

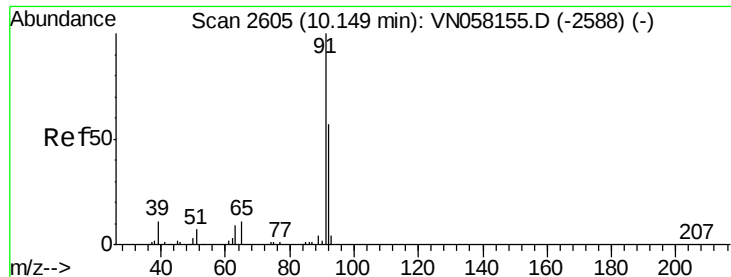
100 63.8 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#52

Toluene

Concen: 1.329 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VN058194.D

Acq: 19 Sep 2019 10:56

Instrument :

MSVOA_N

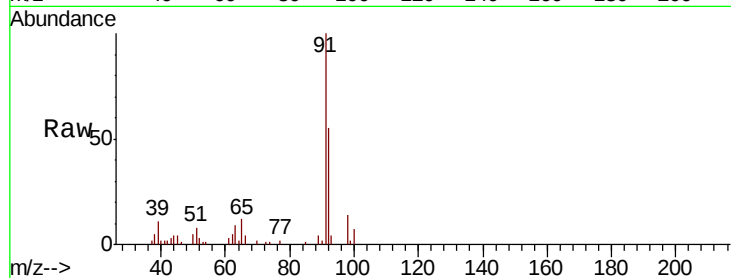
ClientSampleId :

Tot Ion: 92 Resp: 15820

Ion Ratio Lower Upper

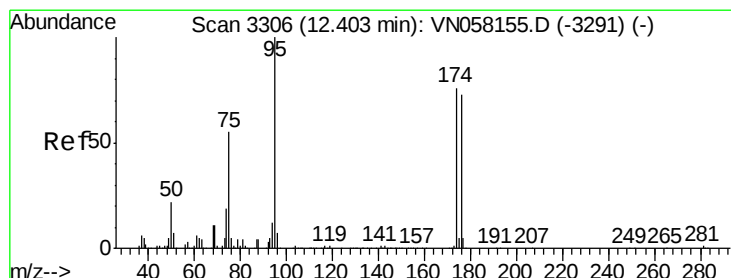
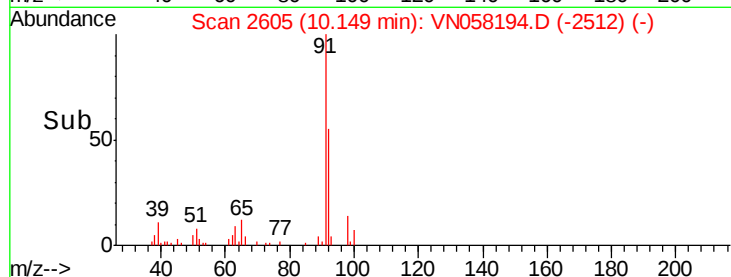
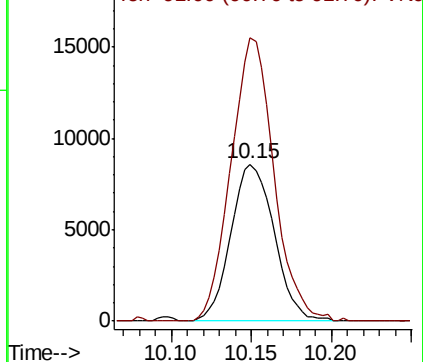
92 100

91 179.0 140.2 210.2



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#62

4-Bromofluorobenzene

Concen: 41.697 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058194.D

Acq: 19 Sep 2019 10:56

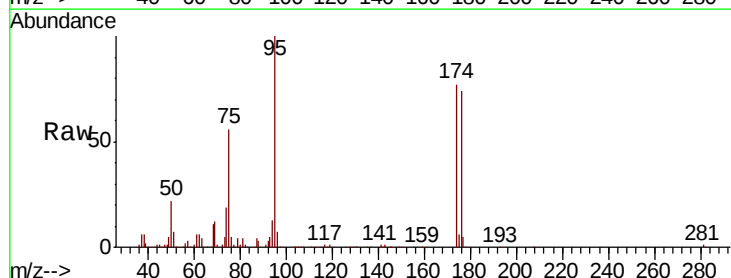
Tgt Ion: 95 Resp: 316297

Ion Ratio Lower Upper

95 100

174 76.2 0.0 152.2

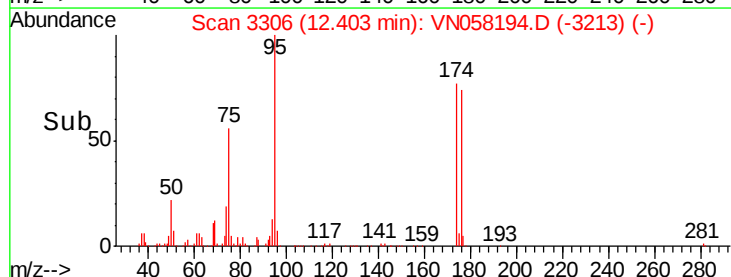
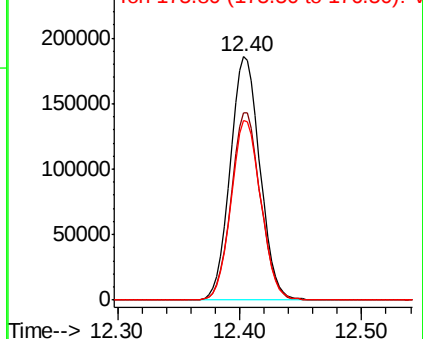
176 73.8 0.0 148.0

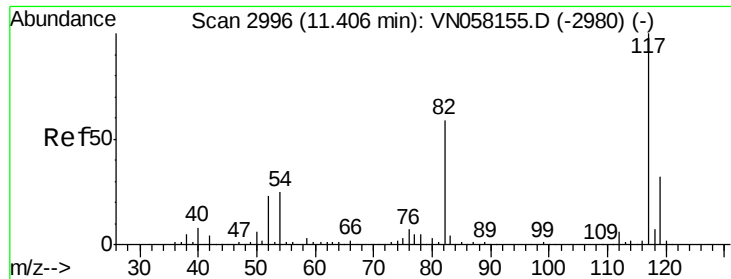


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

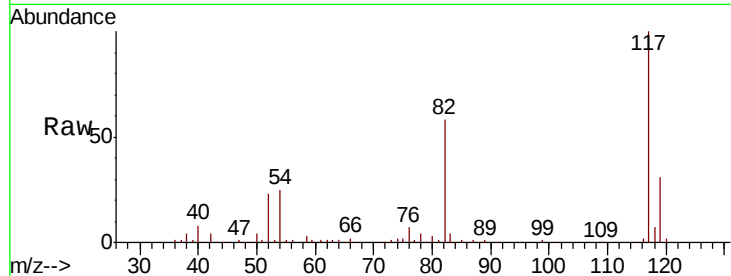




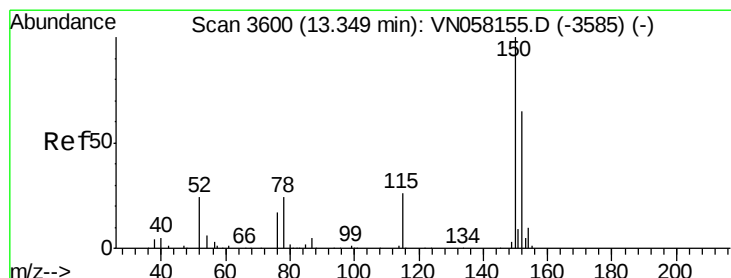
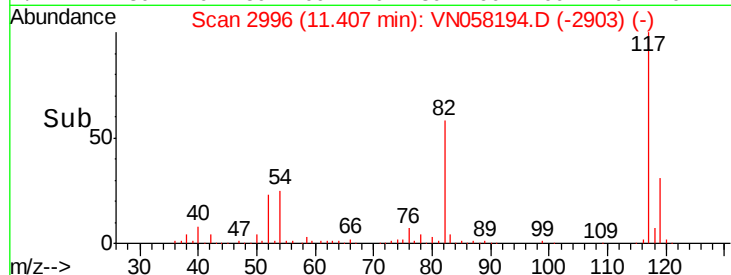
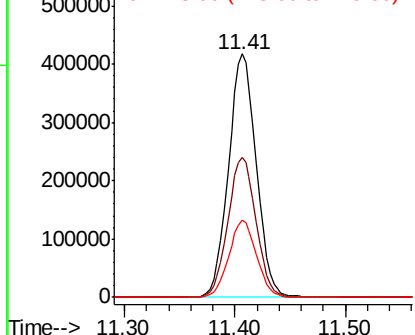
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058194.D
Acq: 19 Sep 2019 10:56

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 726664
Ion Ratio Lower Upper
117 100
82 57.6 46.9 70.3
119 31.5 25.3 37.9

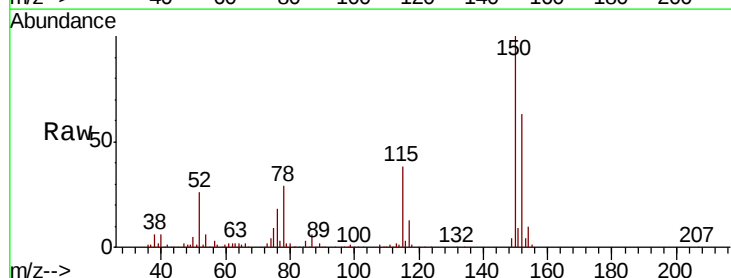


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

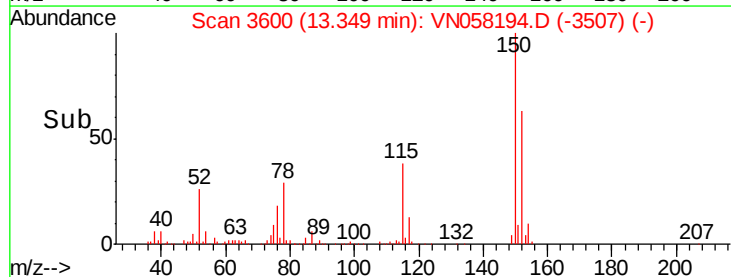
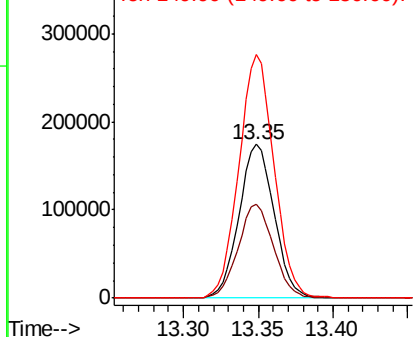


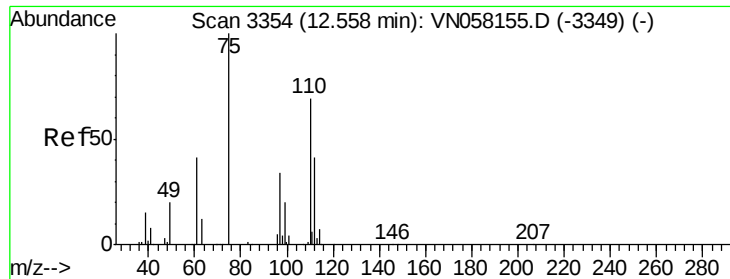
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN058194.D
Acq: 19 Sep 2019 10:56

Tgt Ion:152 Resp: 285670
Ion Ratio Lower Upper
152 100
115 61.3 30.1 90.3
150 158.5 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: 33.824 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058194.D

Acq: 19 Sep 2019 10:56

Instrument :

MSVOA_N

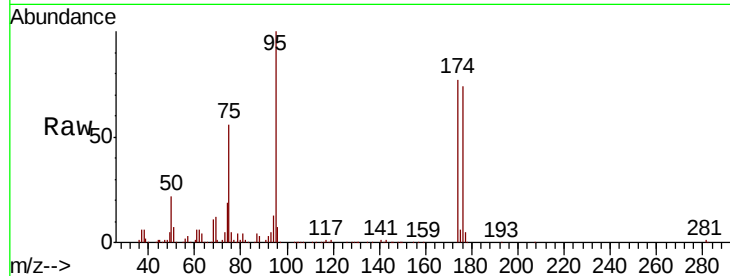
ClientSampled :

Tot Ion: 75 Resp: 172926

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

120000

100000

80000

60000

40000

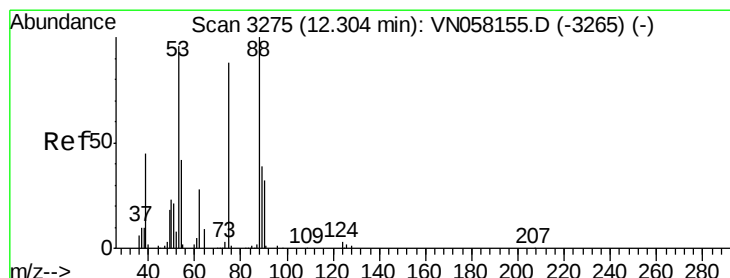
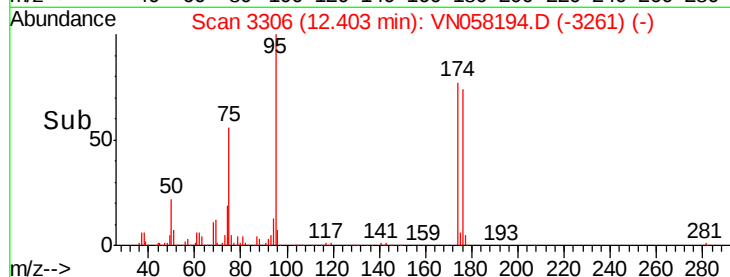
20000

0

12.40

12.50

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 94.811 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058194.D

Acq: 19 Sep 2019 10:56

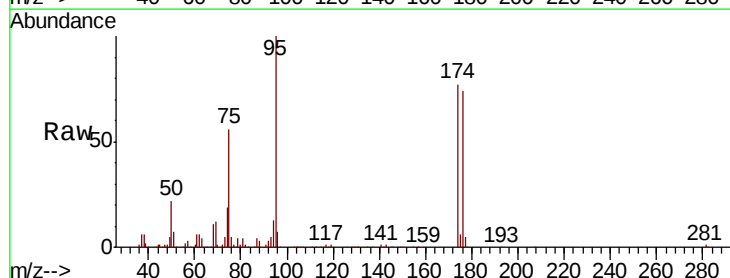
Tgt Ion: 75 Resp: 172926

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): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

100000

50000

0

12.40

12.50

Time-->

