

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102419\
 Data File : VN058919.D
 Acq On : 23 Oct 2019 11:22
 Operator : JC/SP
 Sample : K5494-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 24 01:10:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 19 00:16:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	324479	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	517191	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	456906	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	165135	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	242126	50.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.76%	
35) Dibromofluoromethane	7.57	113	173993	51.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.34%	
50) Toluene-d8	10.09	98	637982	48.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.66%	
62) 4-Bromofluorobenzene	12.40	95	200832	41.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.86%	

Target Compounds

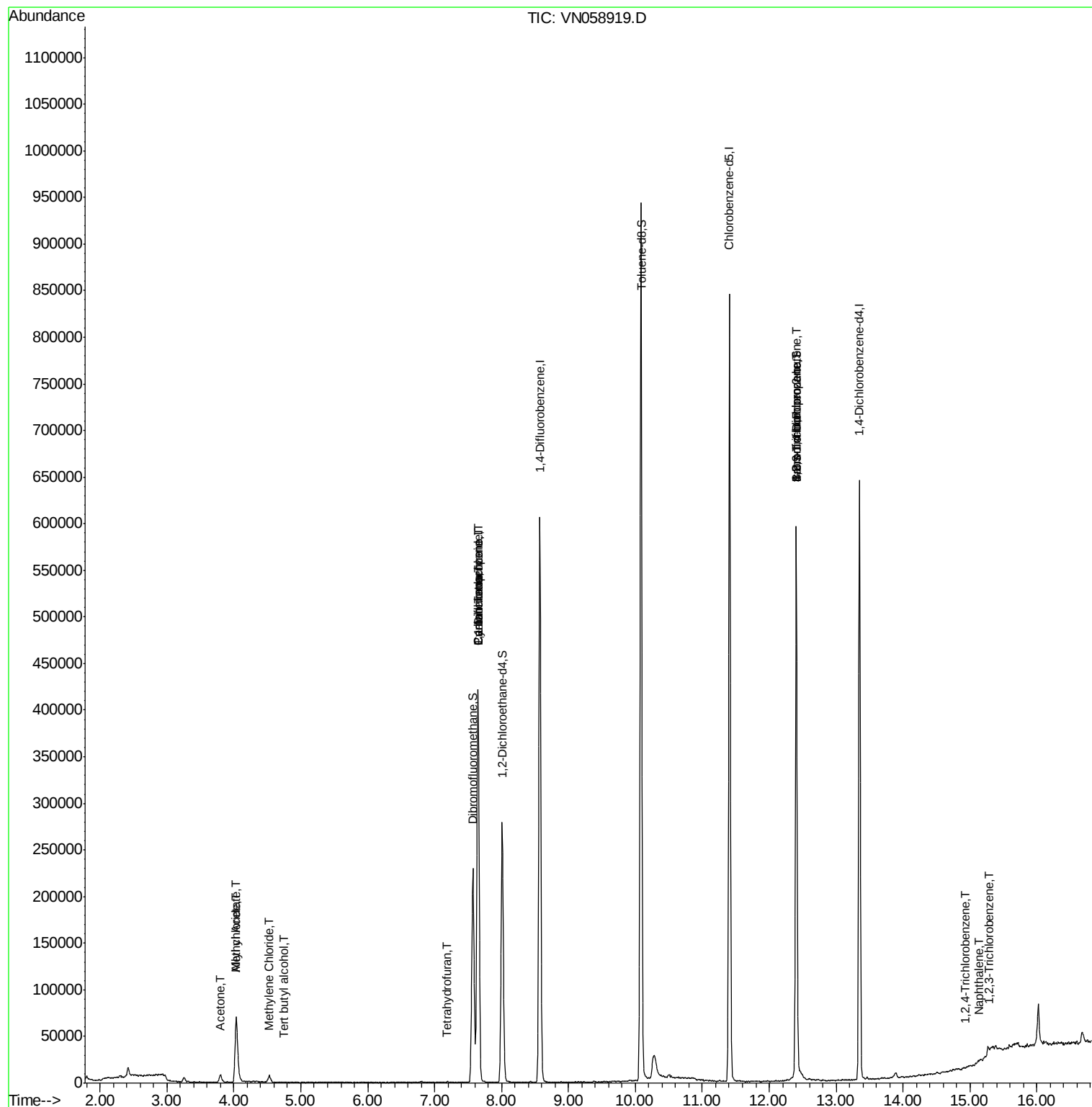
						Qvalue
11) Tert butyl alcohol	4.74	59	395	0.500	ug/l #	72
14) Allyl chloride	4.04	41	9909	1.531	ug/l #	62
16) Acetone	3.80	43	14410	6.128	ug/l	95
18) Methyl Acetate	4.04	43	28982	5.421	ug/l #	55
20) Methylene Chloride	4.52	84	3032	0.755	ug/l	97
29) Tetrahydrofuran	7.19	42	395	0.212	ug/l #	36
31) Cyclohexane	7.65	56	7820	1.143	ug/l #	5
36) 1,1-Dichloropropene	7.64	75	28216	5.329	ug/l #	51
38) Carbon Tetrachloride	7.65	117	32854	6.023	ug/l #	17
71) Bromoform	12.41	173	1144	0.420	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	107329	28.044	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	107329	73.056	ug/l #	10
93) 1,2,4-Trichlorobenzene	14.93	180	64	2.539	ug/l #	51
95) Naphthalene	15.13	128	538	2.280	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.29	180	31	2.404	ug/l #	1

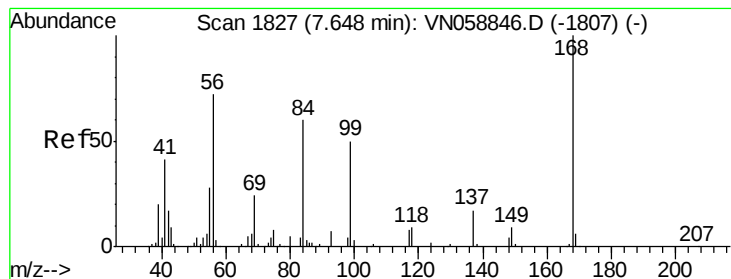
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Oct 19 00:16:20 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN058919.D

Acq: 23 Oct 2019 11:22

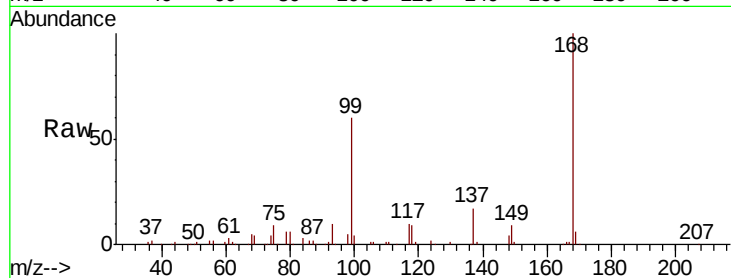
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 324479

Ion Ratio Lower Upper

168 100

99 59.5 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

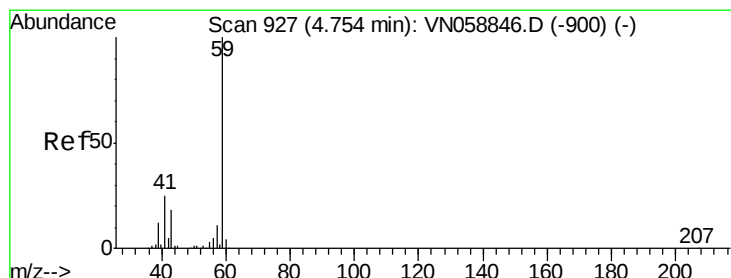
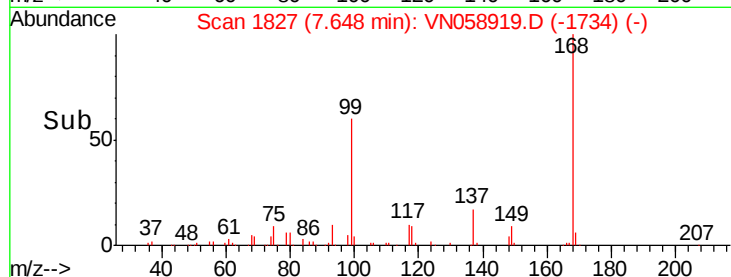
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.500 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.01 min

Lab File: VN058919.D

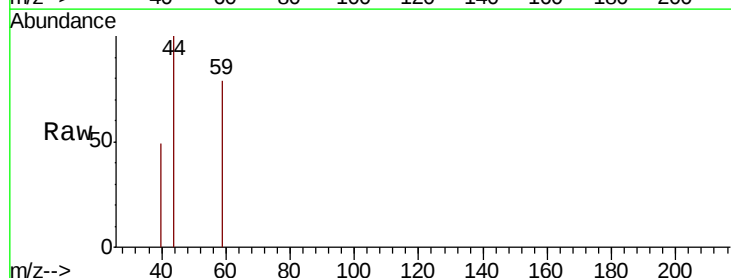
Acq: 23 Oct 2019 11:22

Tgt Ion: 59 Resp: 395

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.74

400

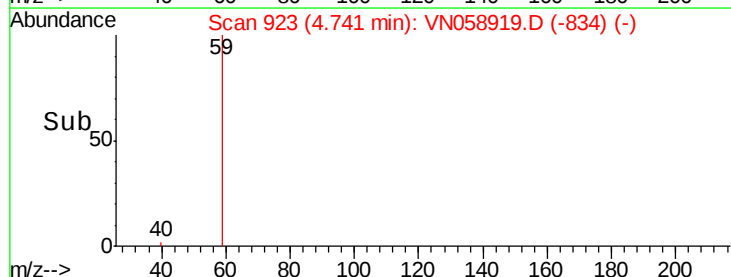
300

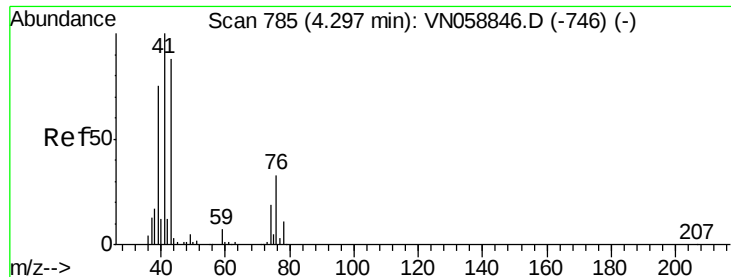
200

100

0

Time-->

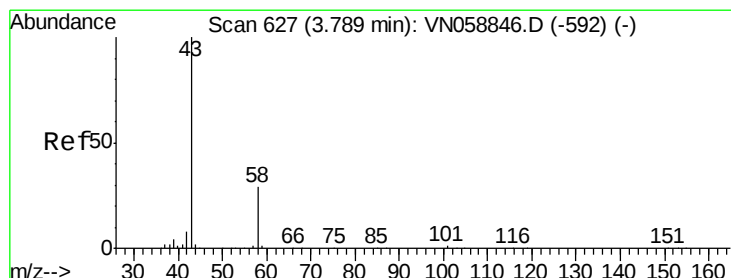
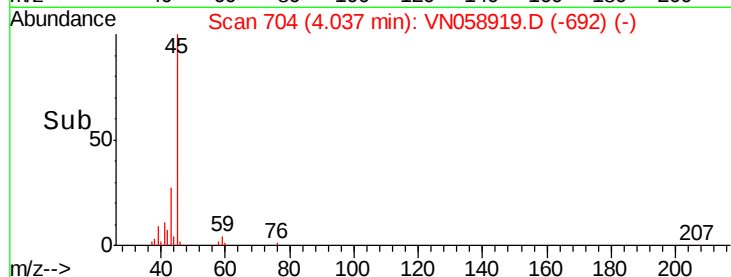
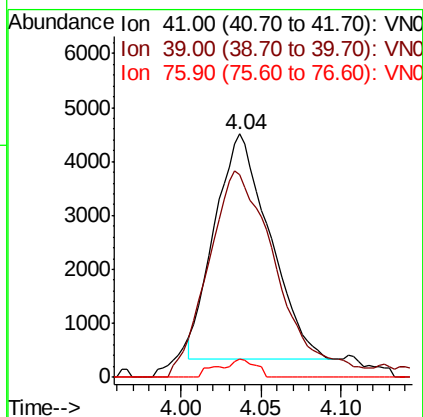
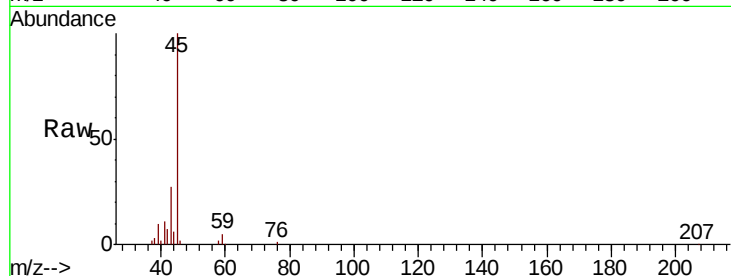




#14
Allvl chloride
Concen: 1.531 ug/l
RT: 4.04 min Scan# 704
Delta R.T. -0.26 min
Lab File: VN058919.D
Acq: 23 Oct 2019 11:22

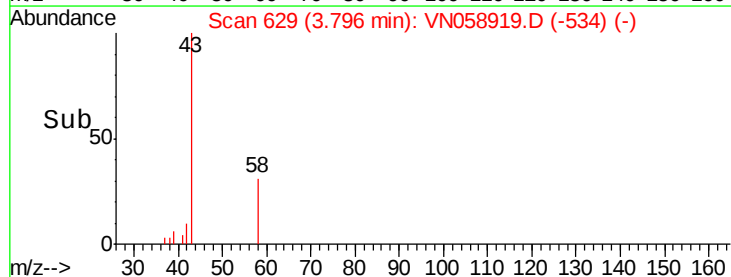
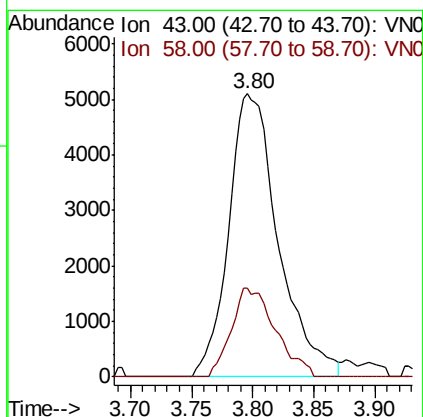
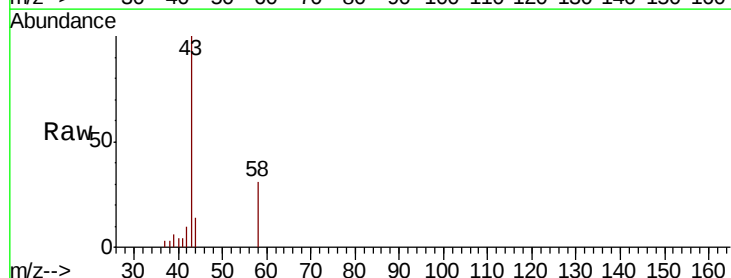
Instrument :
MSVOA_N
ClientSampleId :

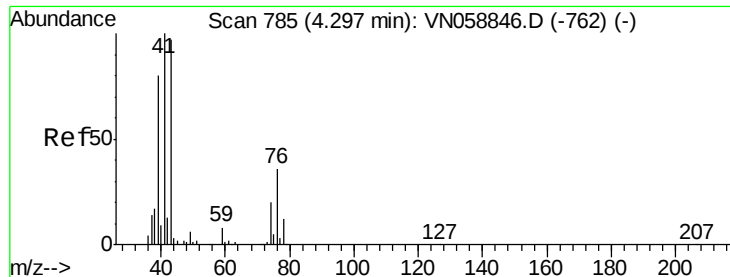
Tot Ion: 41 Resp: 9909
Ion Ratio Lower Upper
41 100
39 98.6 55.9 83.9#
76 5.3 24.1 36.1#



#16
Acetone
Concen: 6.128 ug/l
RT: 3.80 min Scan# 629
Delta R.T. 0.01 min
Lab File: VN058919.D
Acq: 23 Oct 2019 11:22

Tgt Ion: 43 Resp: 14410
Ion Ratio Lower Upper
43 100
58 31.5 23.1 34.7

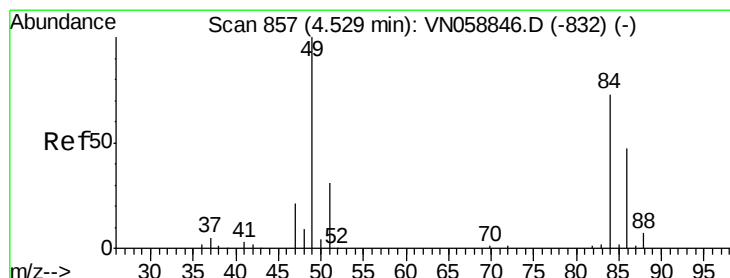
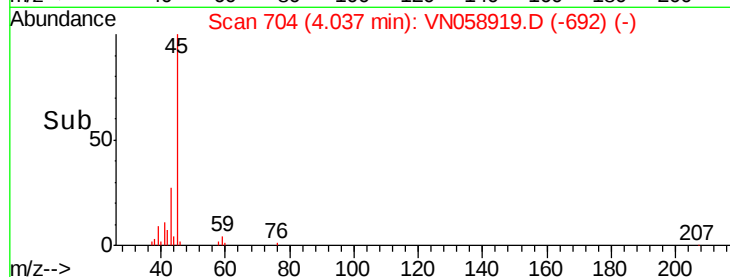
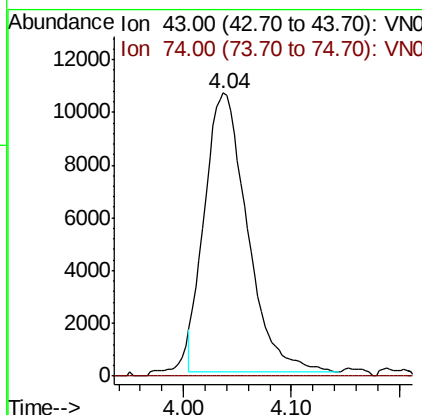
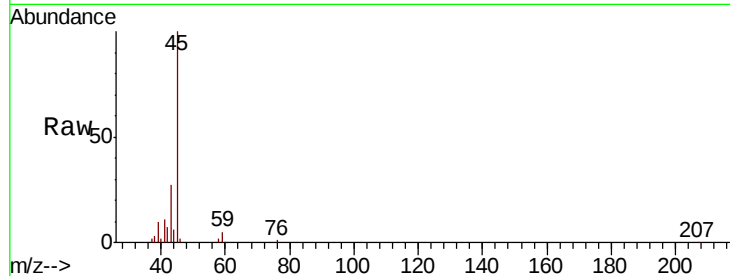




#18
Methvl Acetate
Concen: 5.421 ug/l
RT: 4.04 min Scan# 704
Delta R.T. -0.26 min
Lab File: VN058919.D
Acq: 23 Oct 2019 11:22

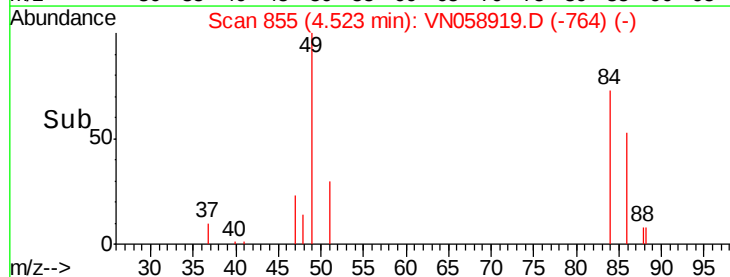
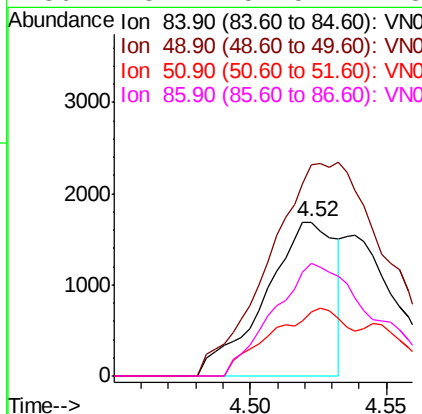
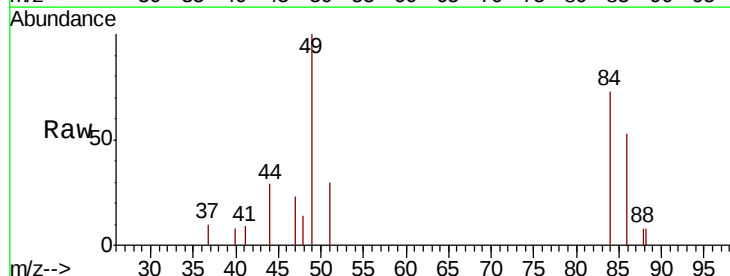
Instrument :
MSVOA_N
ClientSampleId :

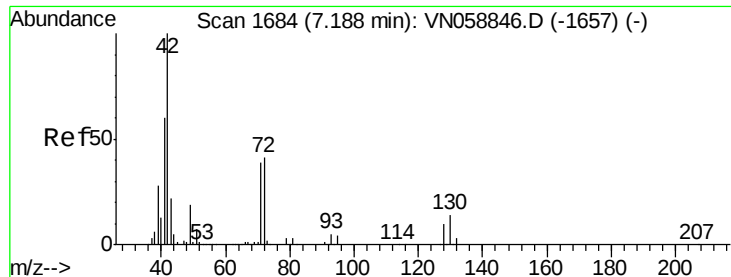
Tot Ion: 43 Resp: 28982
Ion Ratio Lower Upper
43 100
74 0.0 17.1 25.7#



#20
Methylene Chloride
Concen: 0.755 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.01 min
Lab File: VN058919.D
Acq: 23 Oct 2019 11:22

Tgt Ion: 84 Resp: 3032
Ion Ratio Lower Upper
84 100
49 137.3 109.6 164.4
51 41.5 33.8 50.6
86 73.1 51.5 77.3





#29

Tetrahydrofuran

Concen: 0.212 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.01 min

Lab File: VN058919.D

Acq: 23 Oct 2019 11:22

Instrument :

MSVOA_N

ClientSampleId :

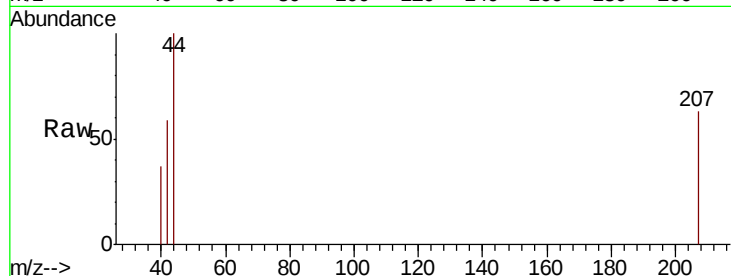
Tot Ion: 42 Resp: 395

Ion Ratio Lower Upper

42 100

72 0.0 32.2 48.2#

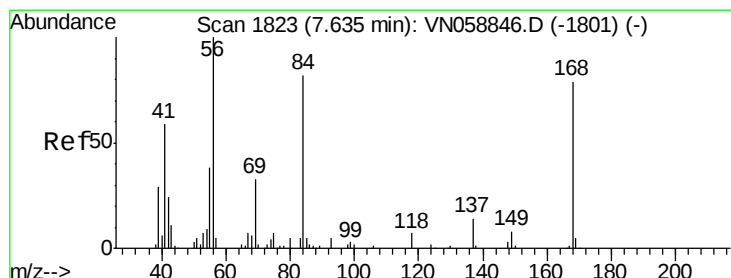
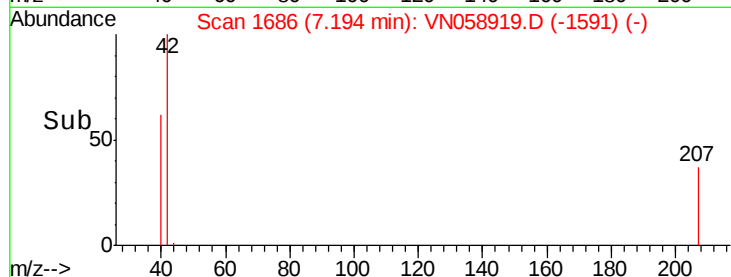
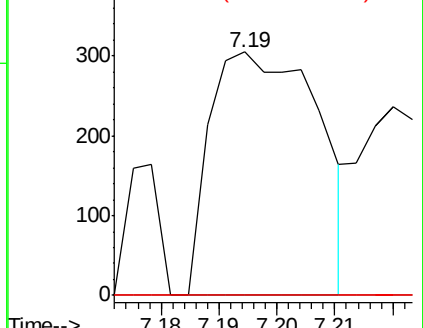
71 0.0 30.6 45.8#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.143 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058919.D

Acq: 23 Oct 2019 11:22

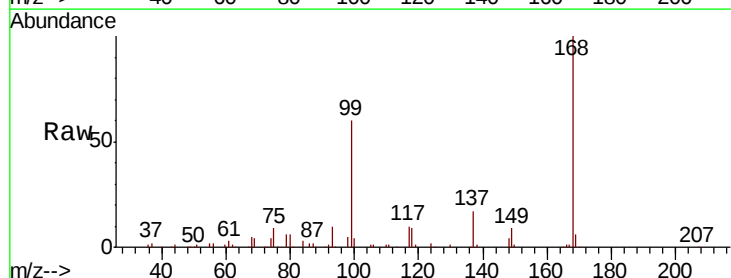
Tgt Ion: 56 Resp: 7820

Ion Ratio Lower Upper

56 100

69 174.2 26.2 39.4#

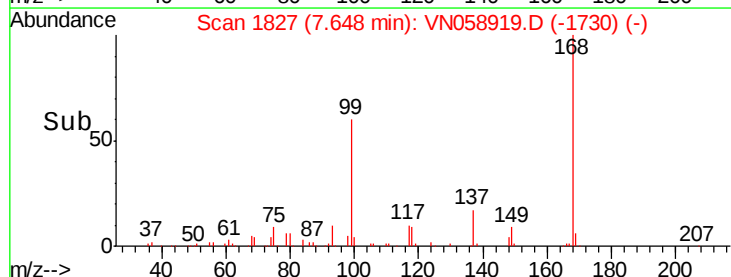
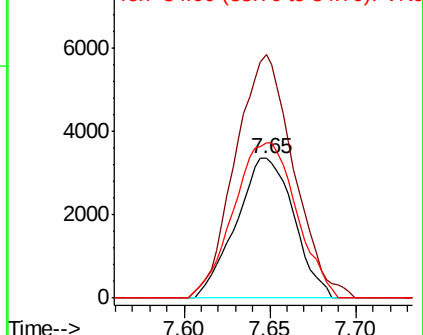
84 110.9 65.6 98.4#

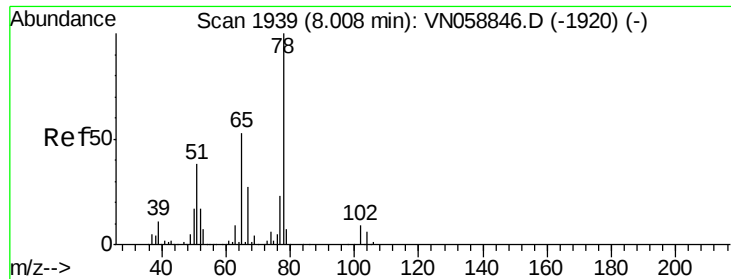


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

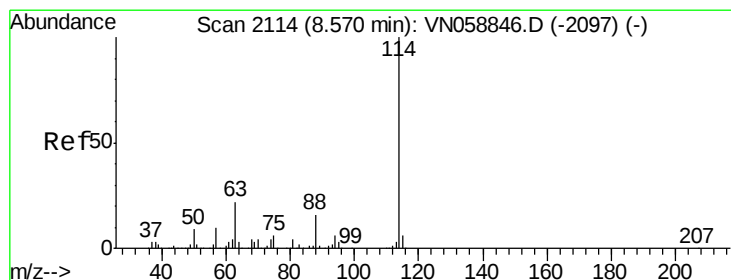
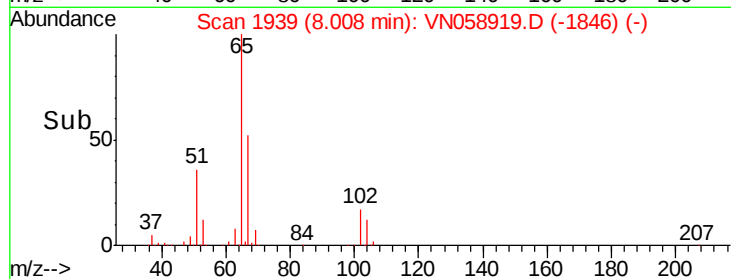
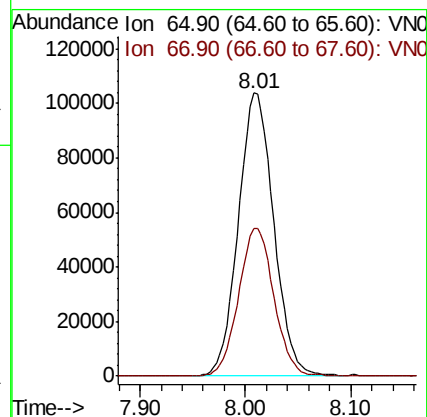
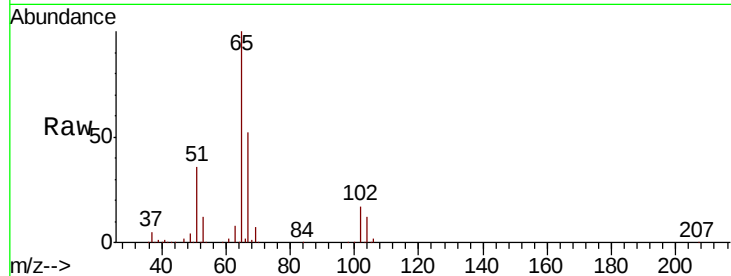




#33
 1,2-Dichloroethane-d4
 Concen: 50.878 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. 0.00 min
 Lab File: VN058919.D
 Acq: 23 Oct 2019 11:22

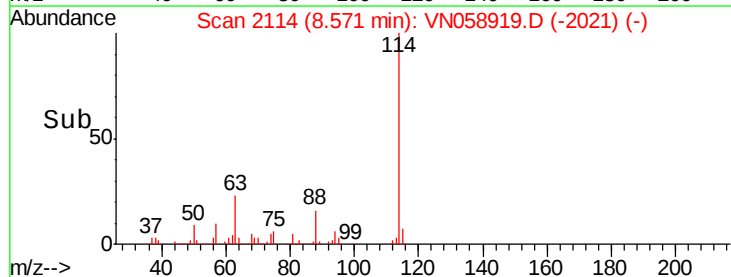
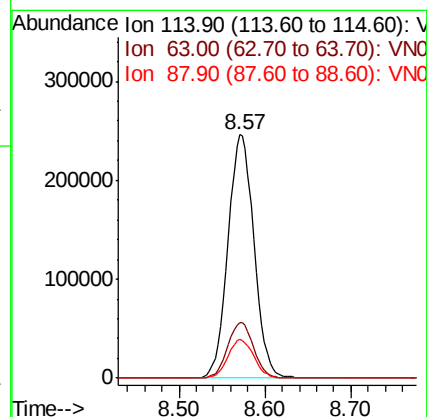
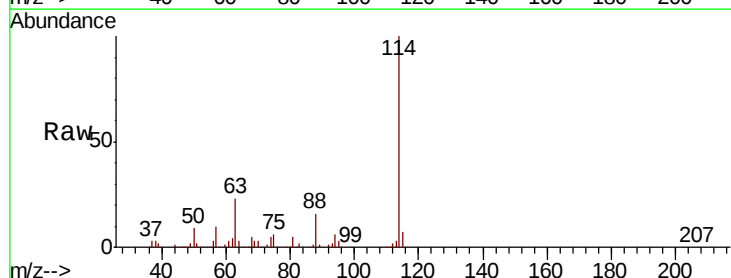
Instrument :
 MSVOA_N
 ClientSampleId :

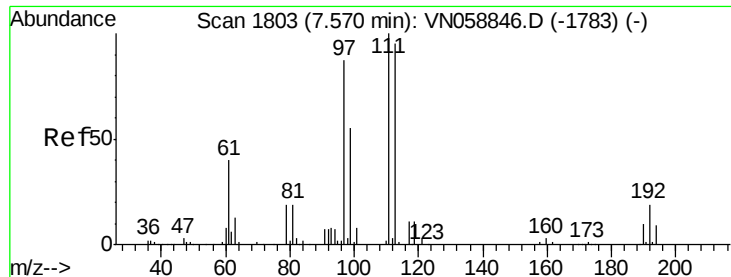
Tot Ion: 65 Resp: 242126
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 103.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN058919.D
 Acq: 23 Oct 2019 11:22

Tgt Ion: 114 Resp: 517191
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 44.4
 88 16.0 0.0 31.4

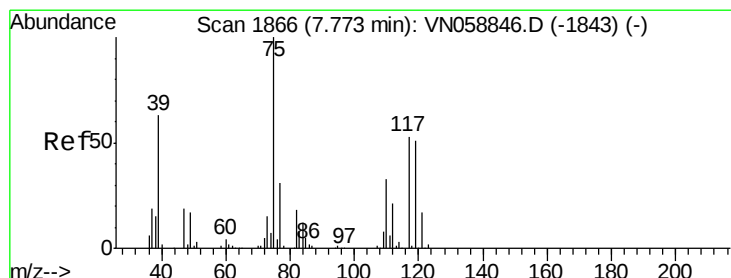
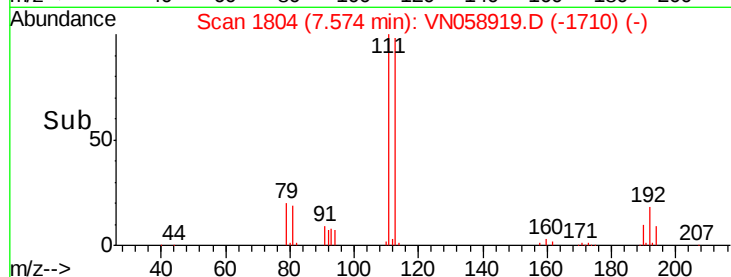
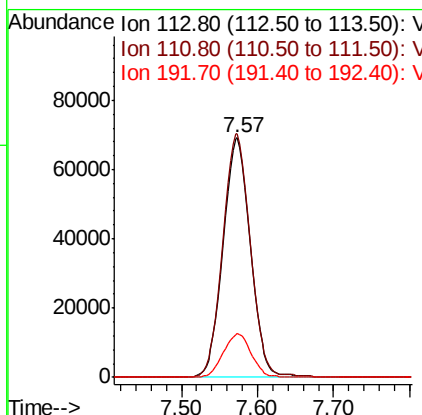
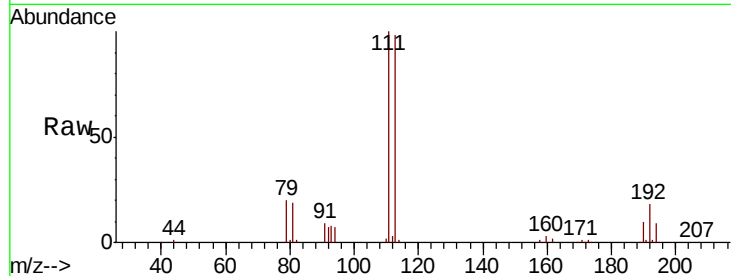




#35
 Dibromofluoromethane
 Concen: 51.168 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058919.D
 Acq: 23 Oct 2019 11:22

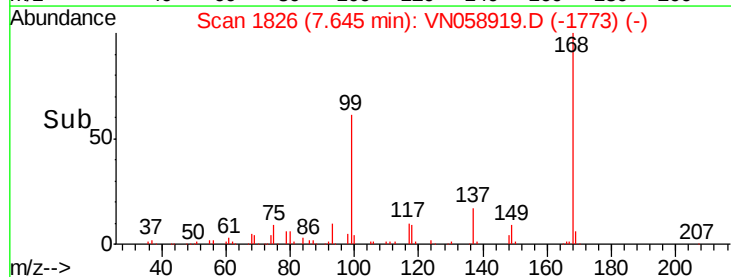
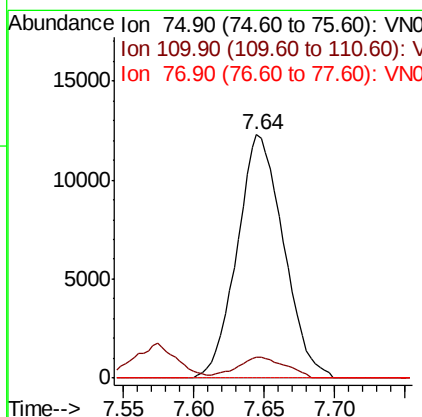
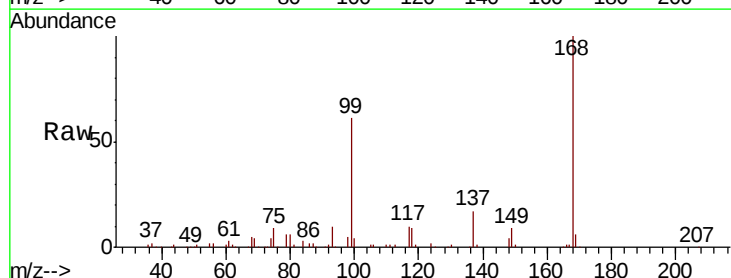
Instrument :
 MSVOA_N
 ClientSampleId :

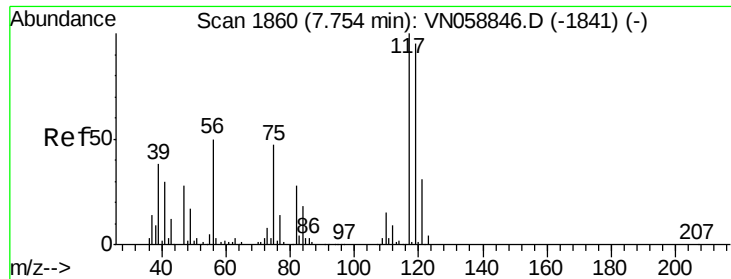
Tot Ion:113 Resp: 173993
 Ion Ratio Lower Upper
 113 100
 111 101.4 82.0 123.0
 192 18.5 15.0 22.6



#36
 1,1-Dichloropropene
 Concen: 5.329 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN058919.D
 Acq: 23 Oct 2019 11:22

Tgt Ion: 75 Resp: 28216
 Ion Ratio Lower Upper
 75 100
 110 9.0 16.3 48.9#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 6.023 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.11 min

Lab File: VN058919.D

Acq: 23 Oct 2019 11:22

Instrument :

MSVOA_N

ClientSampled :

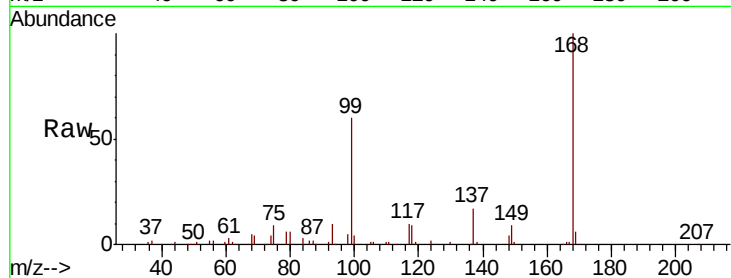
Tot Ion:117 Resp: 32854

Ion Ratio Lower Upper

117 100

119 6.0 75.7 113.5#

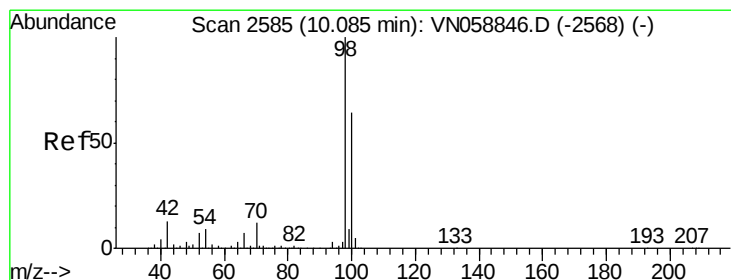
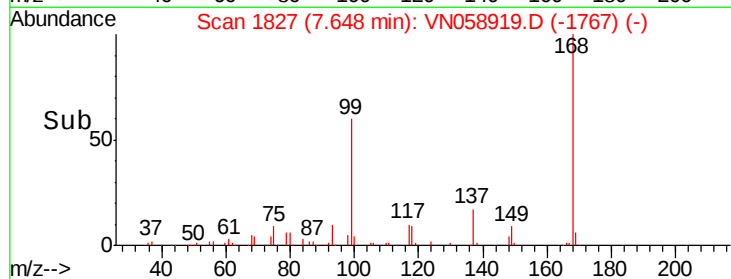
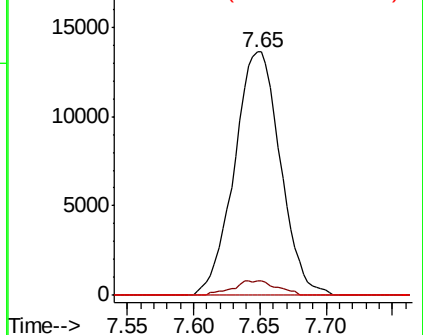
121 0.0 25.0 37.6#



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



#50

Toluene-d8

Concen: 48.332 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058919.D

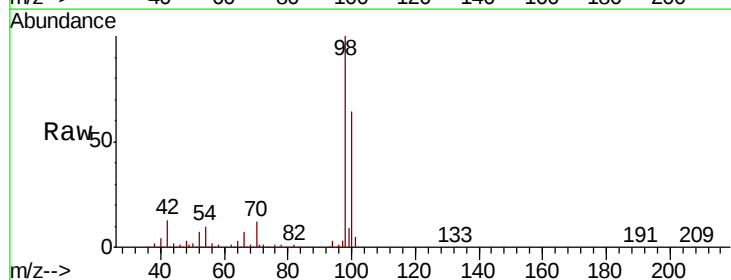
Acq: 23 Oct 2019 11:22

Tgt Ion: 98 Resp: 637982

Ion Ratio Lower Upper

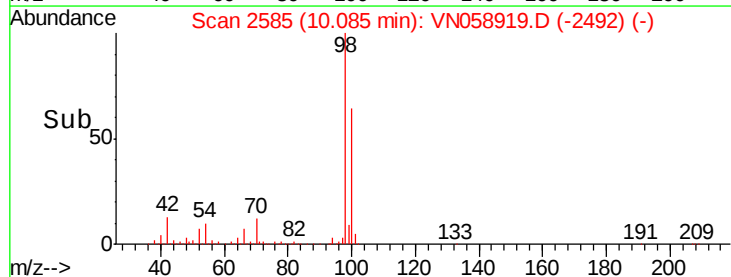
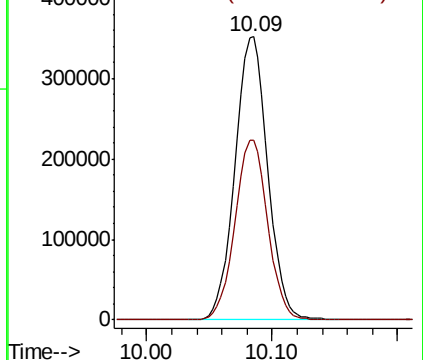
98 100

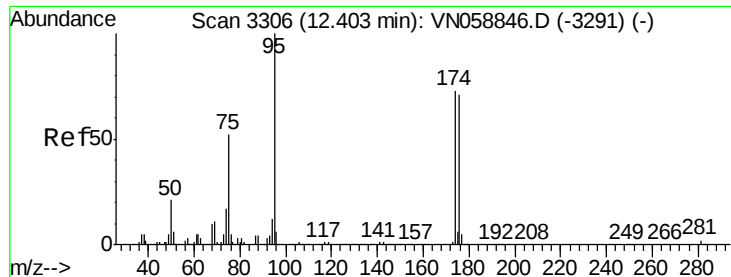
100 63.9 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN





#62

4-Bromofluorobenzene

Concen: 41.431 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058919.D

Acq: 23 Oct 2019 11:22

Instrument :

MSVOA_N

ClientSampleId :

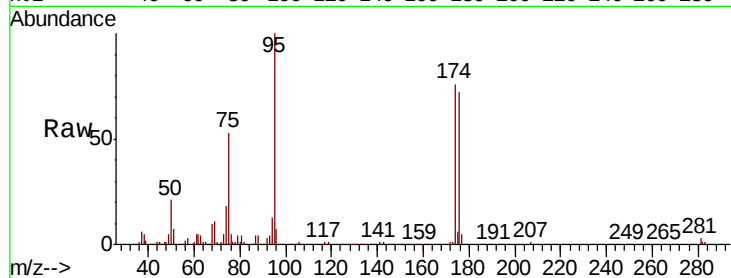
Tot Ion: 95 Resp: 200832

Ion Ratio Lower Upper

95 100

174 76.1 0.0 147.6

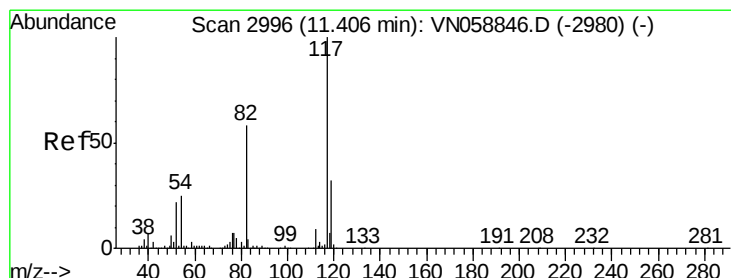
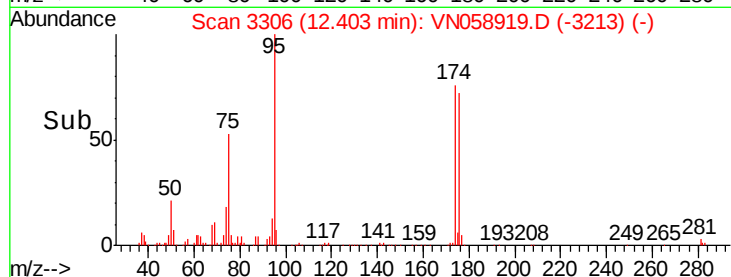
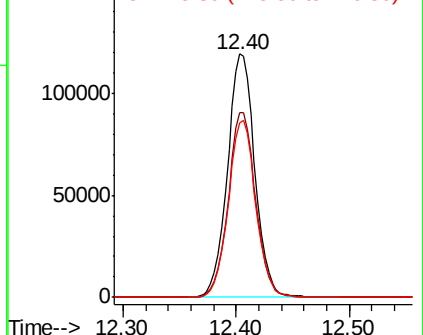
176 72.5 0.0 143.2



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058919.D

Acq: 23 Oct 2019 11:22

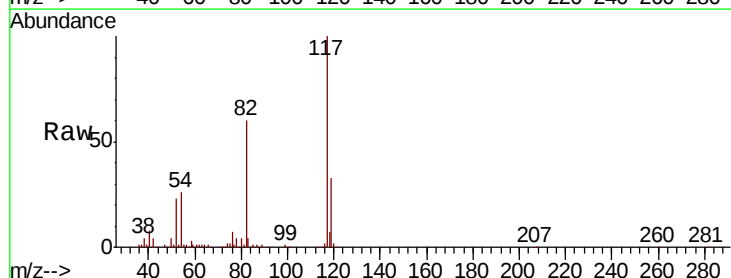
Tgt Ion: 117 Resp: 456906

Ion Ratio Lower Upper

117 100

82 59.6 46.6 69.8

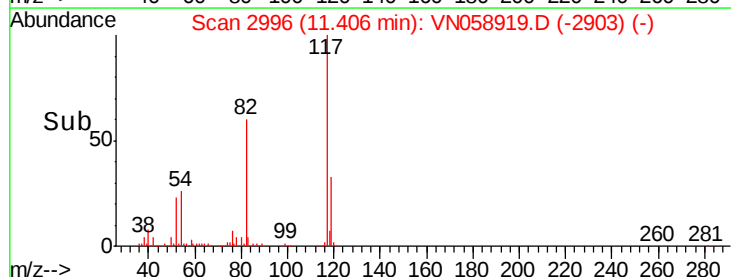
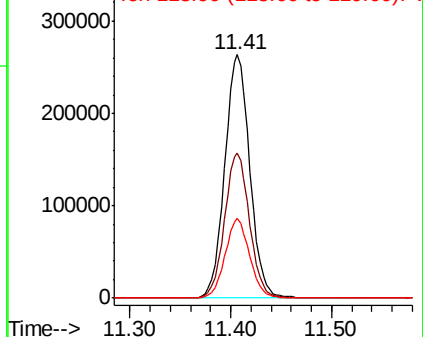
119 32.6 25.6 38.4

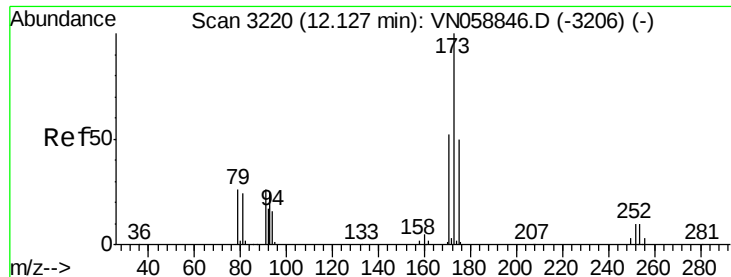


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 0.420 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN058919.D

Acq: 23 Oct 2019 11:22

Instrument :

MSVOA_N

ClientSampleId :

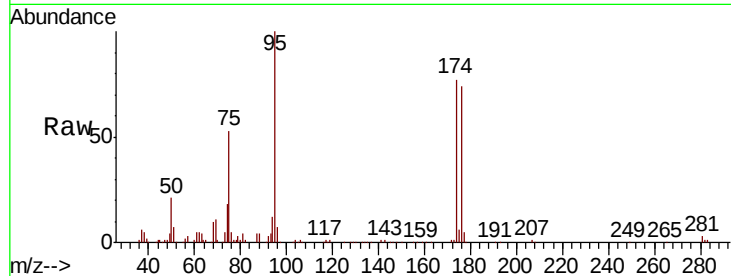
Tot Ion:173 Resp: 1144

Ion Ratio Lower Upper

173 100

175 789.6 24.7 74.1#

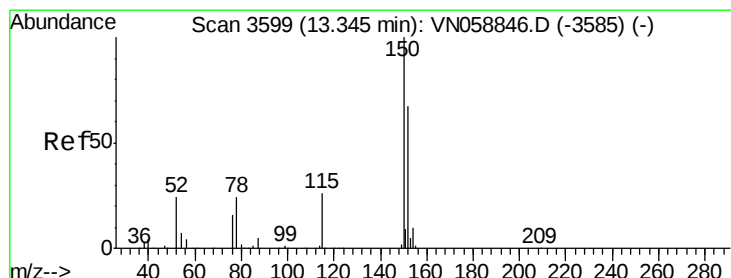
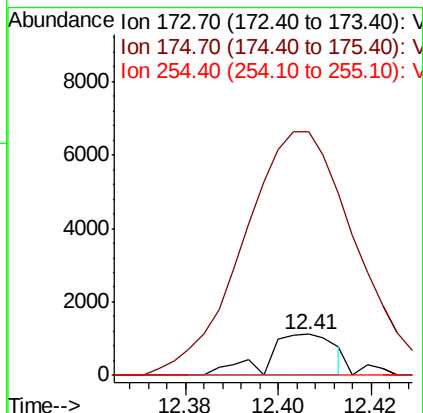
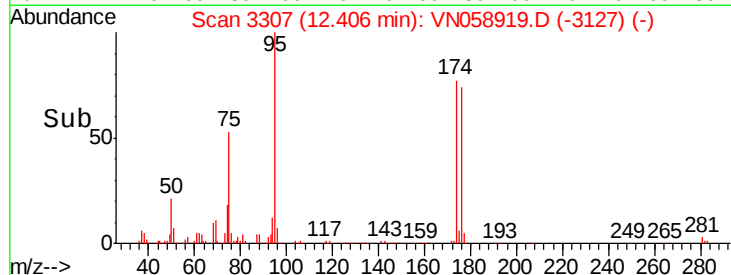
254 0.0 0.0 0.0



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# 3600

Delta R.T. 0.00 min

Lab File: VN058919.D

Acq: 23 Oct 2019 11:22

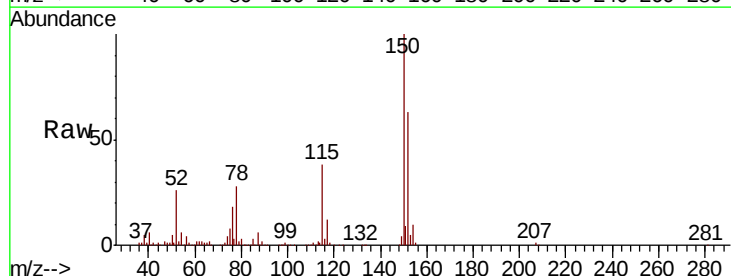
Tgt Ion:152 Resp: 165135

Ion Ratio Lower Upper

152 100

115 60.3 30.5 91.5

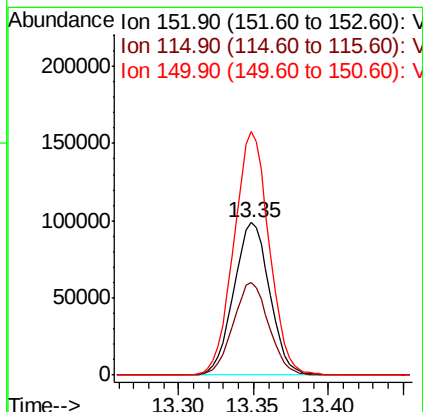
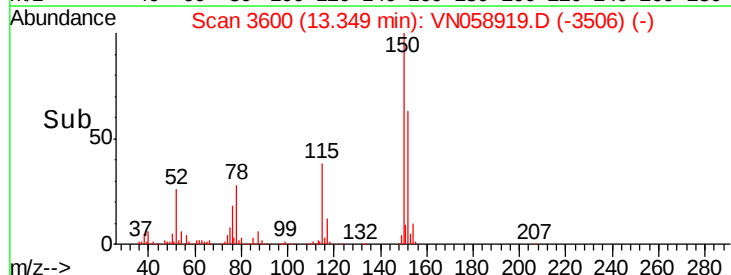
150 157.0 0.0 344.4

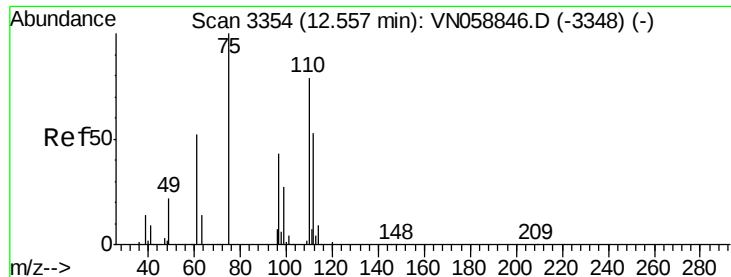


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 28.044 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058919.D

Acq: 23 Oct 2019 11:22

Instrument :

MSVOA_N

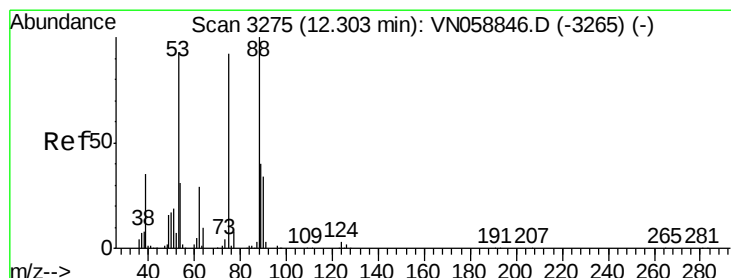
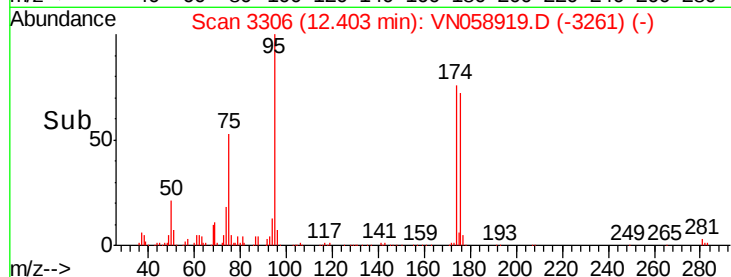
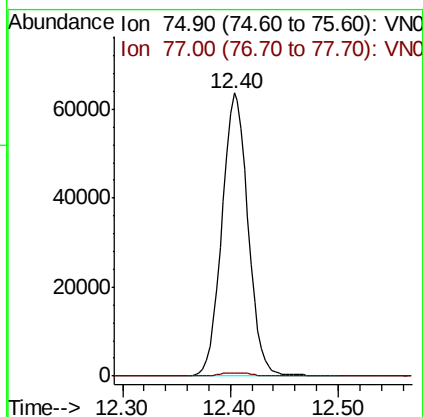
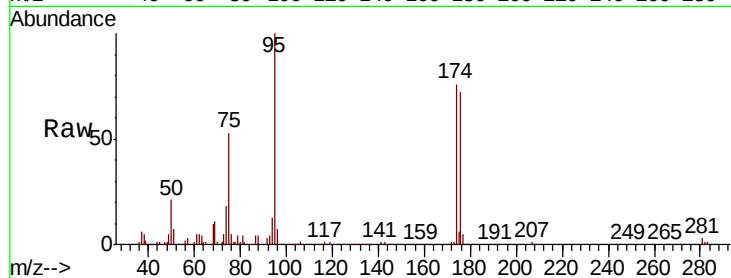
ClientSampleId :

Tot Ion: 75 Resp: 107329

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 73.056 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058919.D

Acq: 23 Oct 2019 11:22

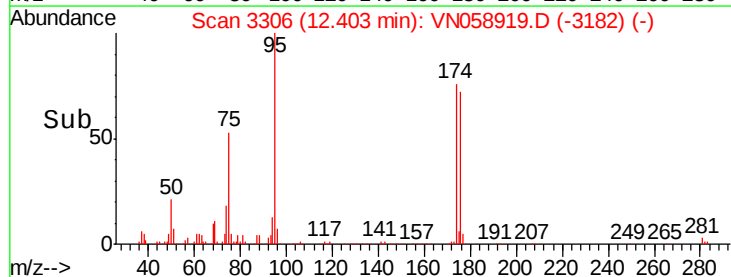
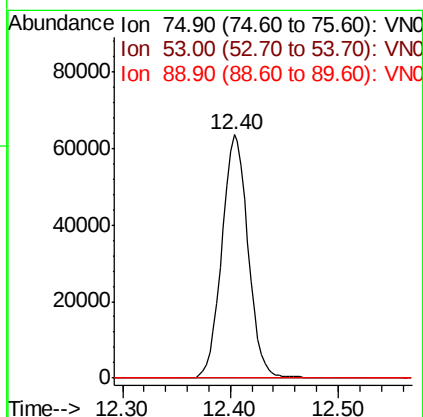
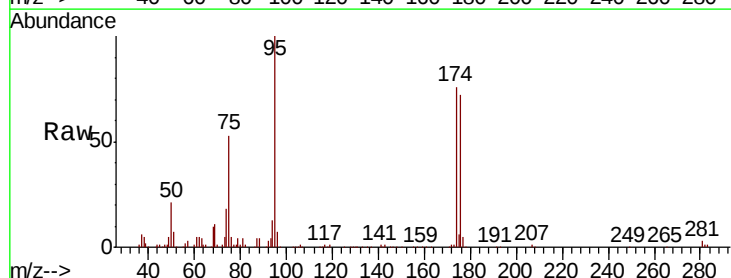
Tgt Ion: 75 Resp: 107329

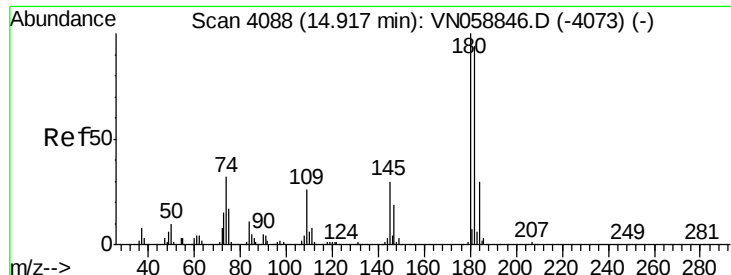
Ion Ratio Lower Upper

75 100

53 0.1 78.6 118.0#

89 0.0 35.4 53.0#

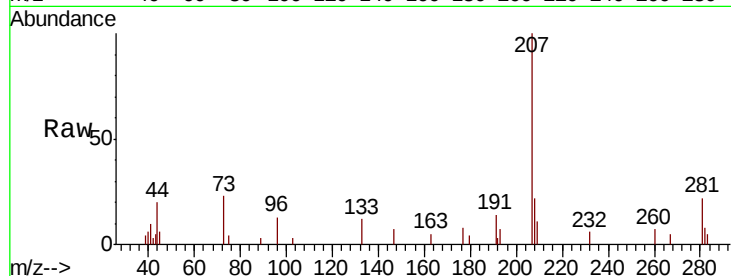




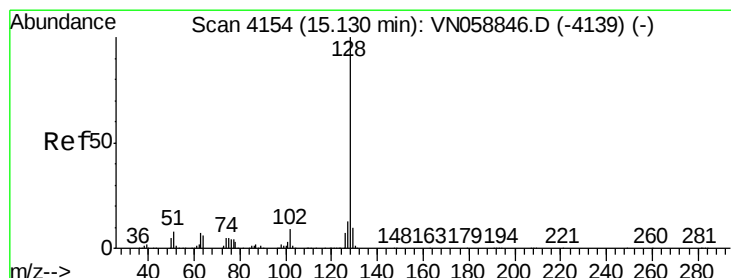
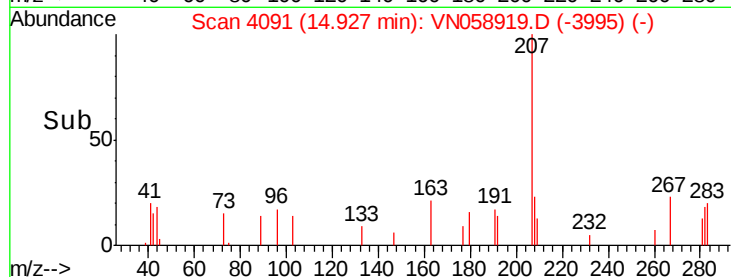
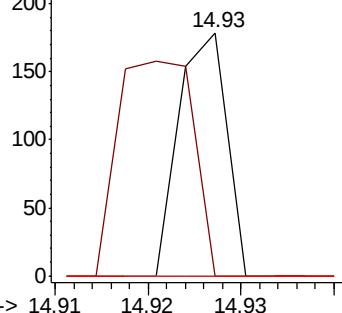
#93
 1,2,4-Trichlorobenzene
 Concen: 2.539 ug/l
 RT: 14.93 min Scan# 4091
 Delta R.T. 0.01 min
 Lab File: VN058919.D
 Acq: 23 Oct 2019 11:22

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 64
 Ion Ratio Lower Upper
 180 100
 182 140.6 47.3 142.0
 145 0.0 15.3 45.8#

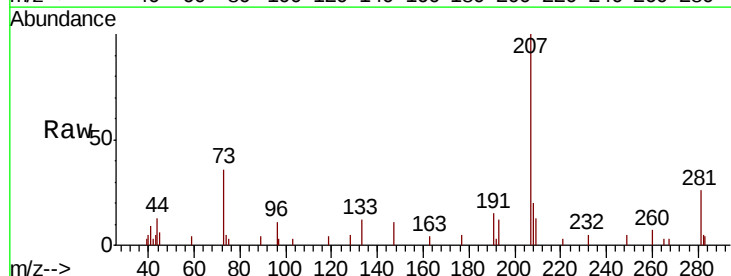


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

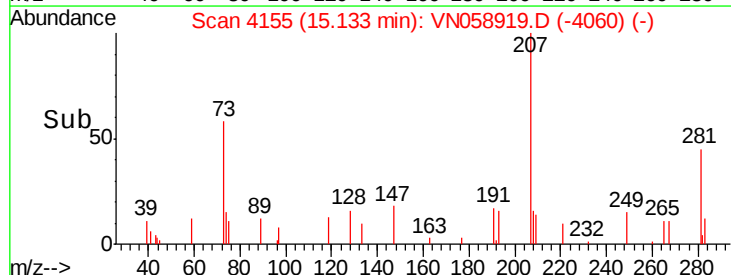
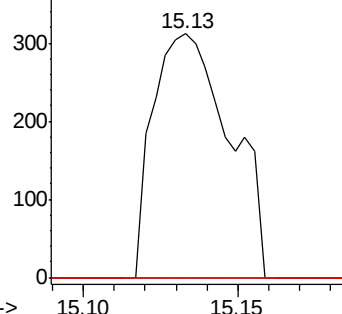


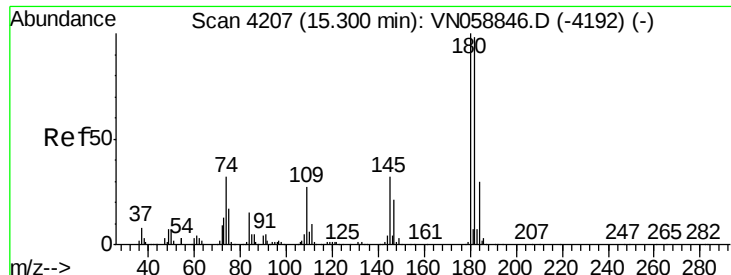
#95
 Naphthalene
 Concen: 2.280 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN058919.D
 Acq: 23 Oct 2019 11:22

Tgt Ion:128 Resp: 538
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.2 15.2#
 129 0.0 8.4 12.6#



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 2.404 ug/l
 RT: 15.29 min Scan# 4205
 Delta R.T. -0.01 min
 Lab File: VN058919.D
 Acq: 23 Oct 2019 11:22

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.9	143.7#
145	106.5	15.9	47.7#

