

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080519\
 Data File : VN057087.D
 Acq On : 5 Aug 2019 17:11
 Operator : JC/SP
 Sample : K4135-22
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

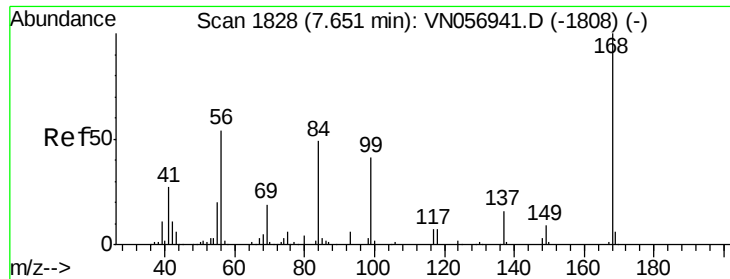
Quant Time: Aug 06 01:12:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 01:33:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	560493	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	822434	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	684722	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	182704	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	279371	48.69	ug/l	0.00
Spiked Amount			Recovery	=	97.38%	
35) Dibromofluoromethane	7.58	113	247689	47.04	ug/l	0.00
Spiked Amount			Recovery	=	94.08%	
50) Toluene-d8	10.09	98	960458	47.84	ug/l	0.00
Spiked Amount			Recovery	=	95.68%	
62) 4-Bromofluorobenzene	12.40	95	254330	38.91	ug/l	0.00
Spiked Amount			Recovery	=	77.82%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.40	74	3454	1.108	ug/l	94
11) Tert butyl alcohol	4.71	59	1091	1.407	ug/l #	74
16) Acetone	3.82	43	18603	8.950	ug/l	97
18) Methyl Acetate	4.32	43	6872	1.036	ug/l #	80
20) Methylene Chloride	4.54	84	17812	2.975	ug/l	96
25) 2-Butanone	6.83	43	688	0.233	ug/l #	48
31) Cyclohexane	7.66	56	8401	0.891	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	34290	4.738	ug/l #	49
38) Carbon Tetrachloride	7.65	117	47501	6.939	ug/l #	18
43) Isopropyl Acetate	8.17	43	22301	2.328	ug/l #	89
45) 1,2-Dichloropropane	9.26	63	1697	0.285	ug/l #	44
48) Methyl methacrylate	9.18	41	8615	1.863	ug/l #	12
49) 1,4-Dioxane	9.26	88	29	0.304	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	3951	0.694	ug/l	90
54) cis-1,3-Dichloropropene	9.90	75	56613	6.637	ug/l #	62
56) Ethyl methacrylate	10.53	69	789	1.854	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	11751	1.320	ug/l #	42
59) 2-Hexanone	10.76	43	145340	35.325	ug/l #	52
70) Styrene	11.96	104	58	1.870	ug/l #	26
71) Bromoform	12.40	173	1164	0.317	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	117331	31.622	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	117331	101.601	ug/l #	15
95) Naphthalene	15.12	128	102	3.600	ug/l #	70

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN057087.D

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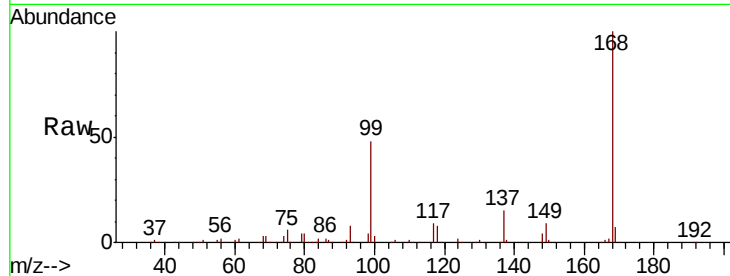
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 560493

Ion Ratio Lower Upper

168 100

99 47.9 39.0 58.4



Abundance Ion 167.90 (167.60 to 168.60): VN056941.D (-1808) (-)

Ion 98.90 (98.60 to 99.60): VN056941.D (-1808) (-)

7.66

250000

200000

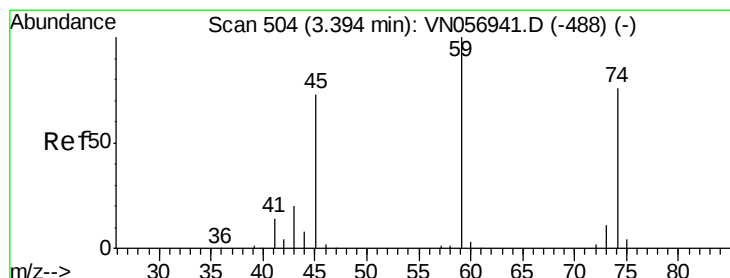
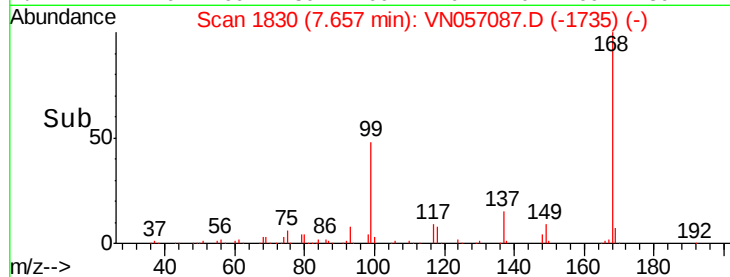
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 1.108 ug/l

RT: 3.40 min Scan# 506

Delta R.T. 0.01 min

Lab File: VN057087.D

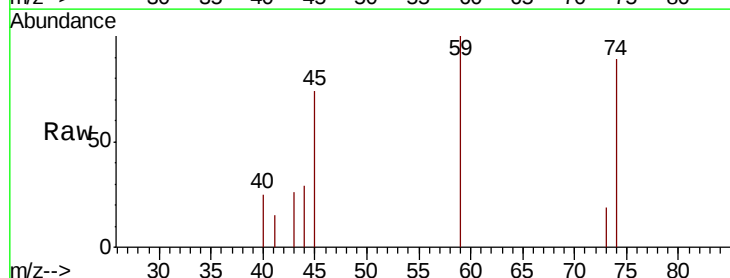
Acq: 5 Aug 2019 17:11

Tgt Ion: 74 Resp: 3454

Ion Ratio Lower Upper

74 100

45 101.6 48.1 144.3



Abundance Ion 74.00 (73.70 to 74.70): VN056941.D (-488) (-)

Ion 45.00 (44.70 to 45.70): VN056941.D (-488) (-)

3.40

2000

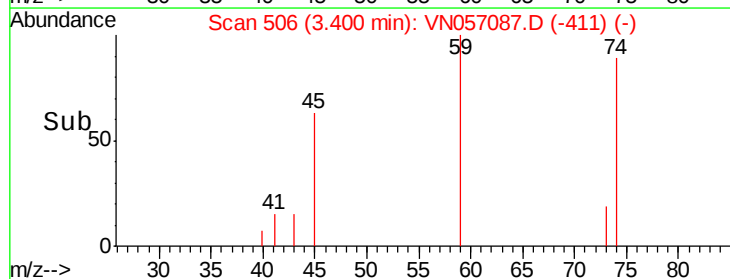
1500

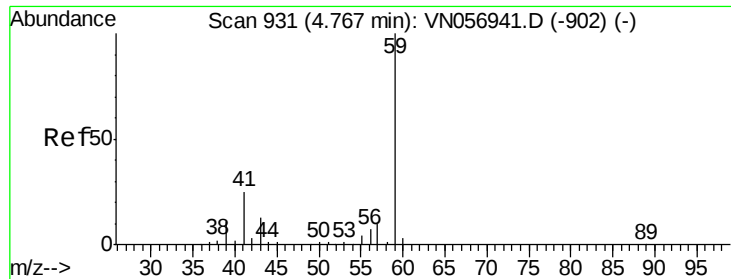
1000

500

0

Time-->

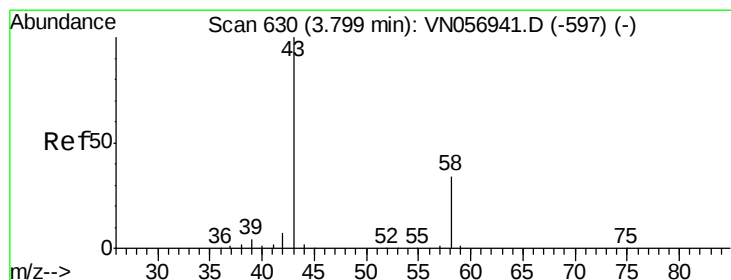
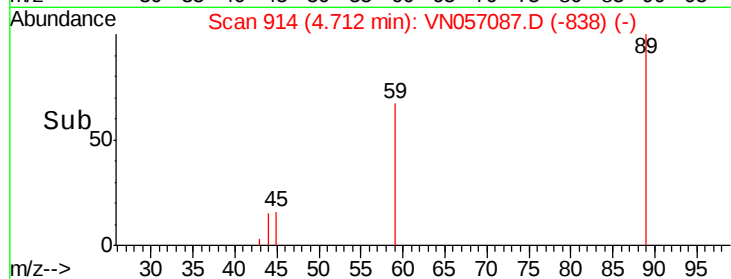
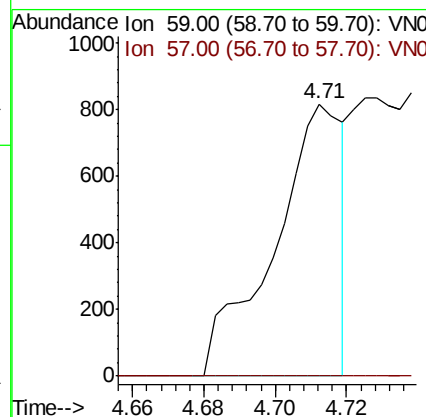
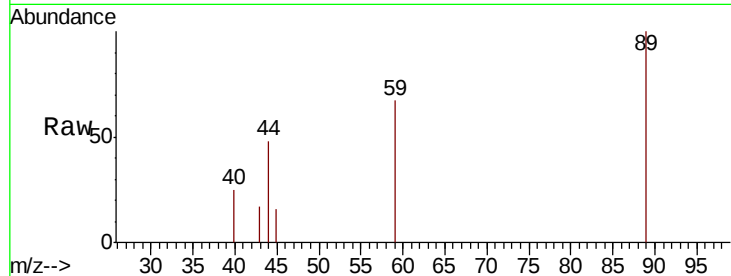




#11
Tert butyl alcohol
Concen: 1.407 ug/l
RT: 4.71 min Scan# 914
Delta R.T. -0.05 min
Lab File: VN057087.D
Acq: 5 Aug 2019 17:11

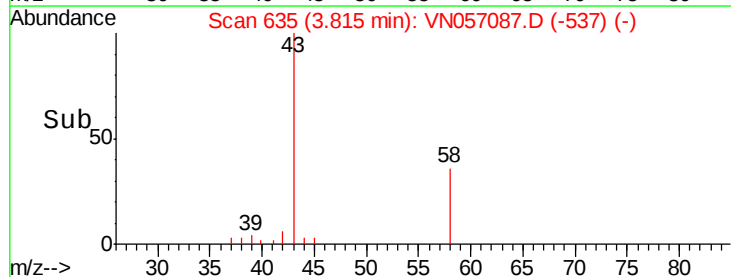
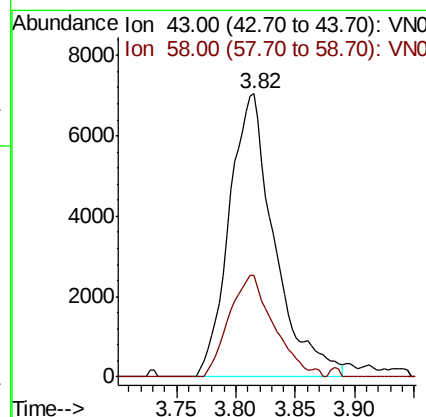
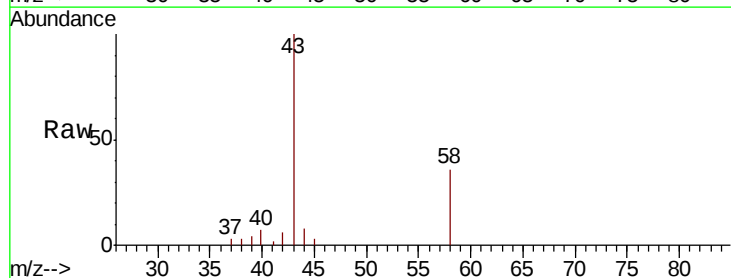
Instrument :
MSVOA_N
ClientSampled :

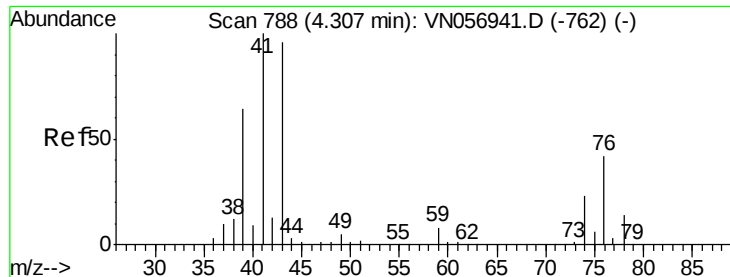
Tot Ion: 59 Resp: 1091
Ion Ratio Lower Upper
59 100
57 0.0 7.5 11.3#



#16
Acetone
Concen: 8.950 ug/l
RT: 3.82 min Scan# 635
Delta R.T. 0.02 min
Lab File: VN057087.D
Acq: 5 Aug 2019 17:11

Tgt Ion: 43 Resp: 18603
Ion Ratio Lower Upper
43 100
58 35.7 27.2 40.8

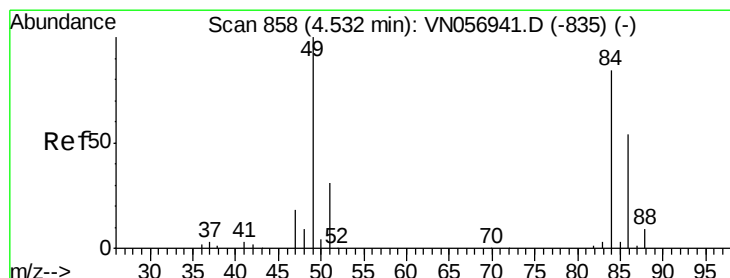
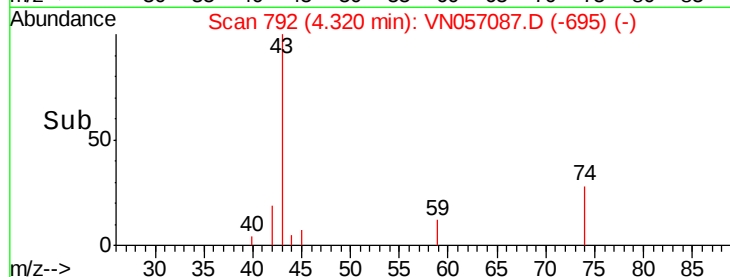
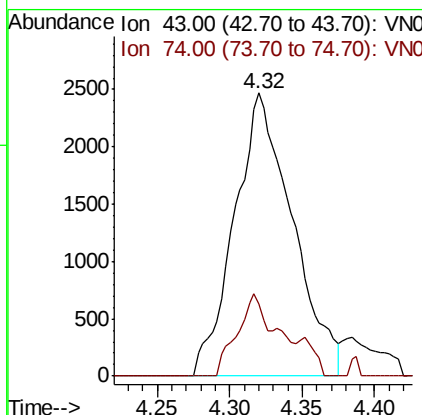
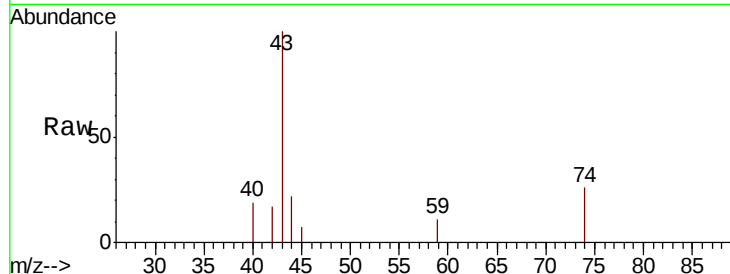




#18
Methyl Acetate
Concen: 1.036 ug/l
RT: 4.32 min Scan# 792
Delta R.T. 0.01 min
Lab File: VN057087.D
Acq: 5 Aug 2019 17:11

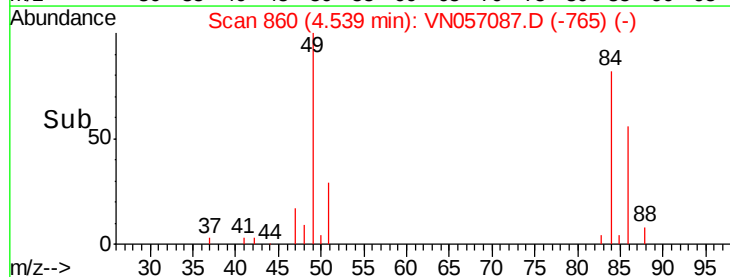
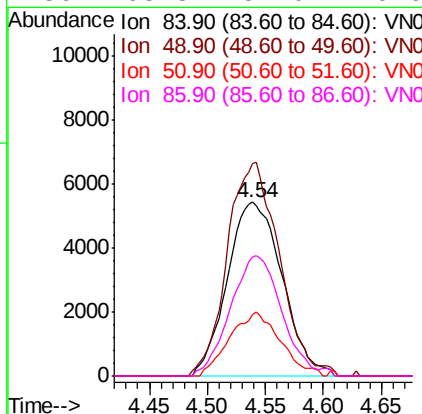
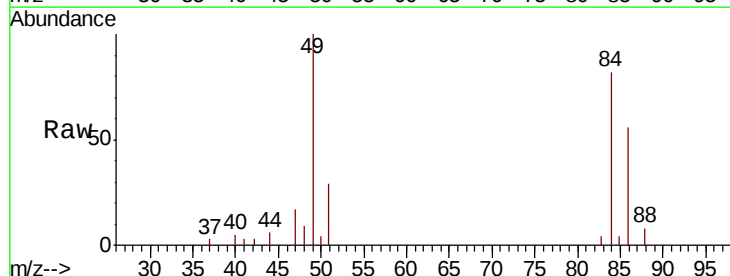
Instrument :
MSVOA_N
ClientSampled :

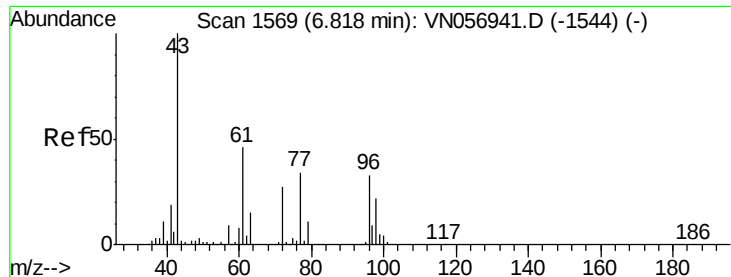
Tot Ion: 43 Resp: 6872
Ion Ratio Lower Upper
43 100
74 14.8 19.7 29.5#



#20
Methylene Chloride
Concen: 2.975 ug/l
RT: 4.54 min Scan# 860
Delta R.T. 0.01 min
Lab File: VN057087.D
Acq: 5 Aug 2019 17:11

Tgt Ion: 84 Resp: 17812
Ion Ratio Lower Upper
84 100
49 122.2 95.2 142.8
51 35.4 29.7 44.5
86 68.8 51.0 76.6

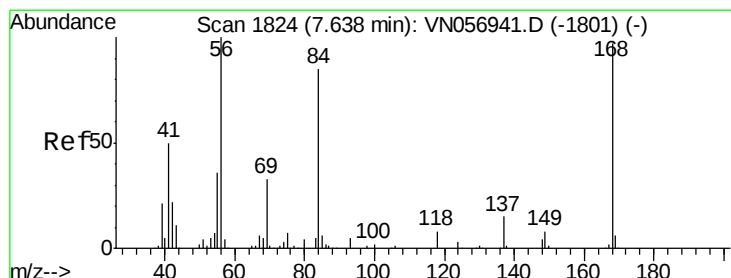
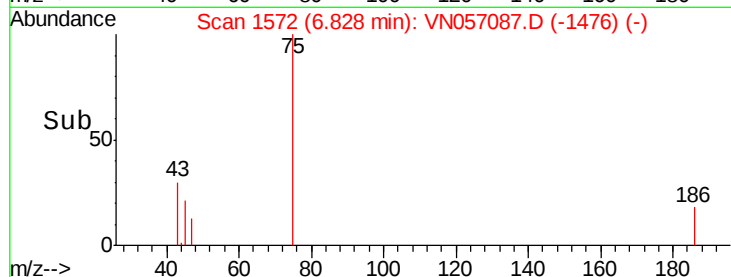
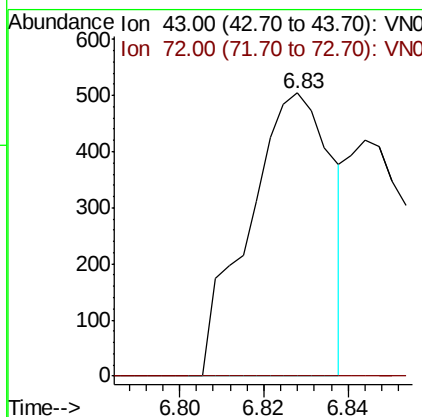
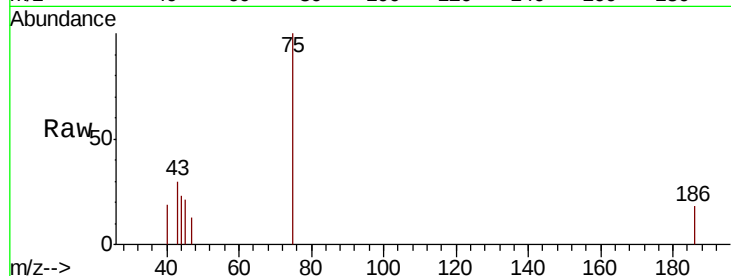




#25
2-Butanone
Concen: 0.233 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.01 min
Lab File: VN057087.D
Acq: 5 Aug 2019 17:11

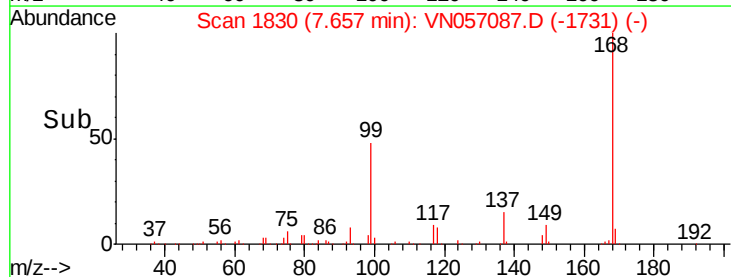
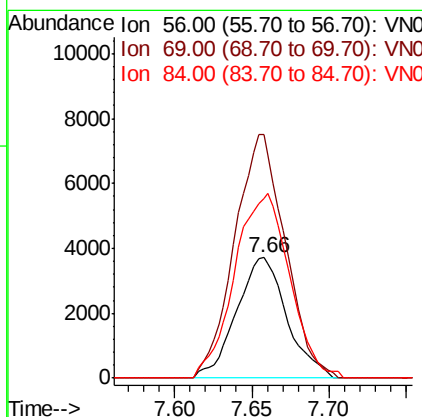
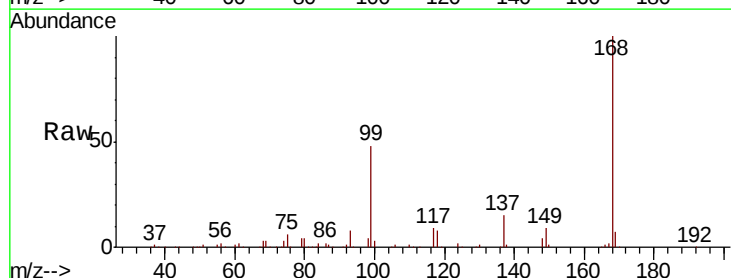
Instrument :
MSVOA_N
ClientSampleId :

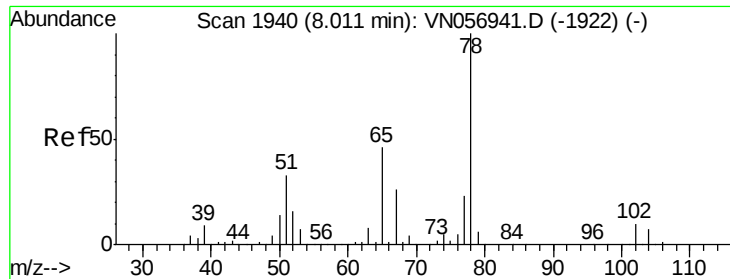
Tot Ion: 43 Resp: 688
Ion Ratio Lower Upper
43 100
72 0.0 21.5 32.3#



#31
Cyclohexane
Concen: 0.891 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.02 min
Lab File: VN057087.D
Acq: 5 Aug 2019 17:11

Tgt Ion: 56 Resp: 8401
Ion Ratio Lower Upper
56 100
69 201.5 26.2 39.2#
84 149.3 68.2 102.2#

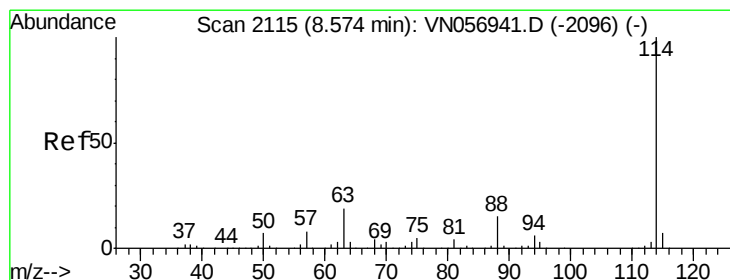
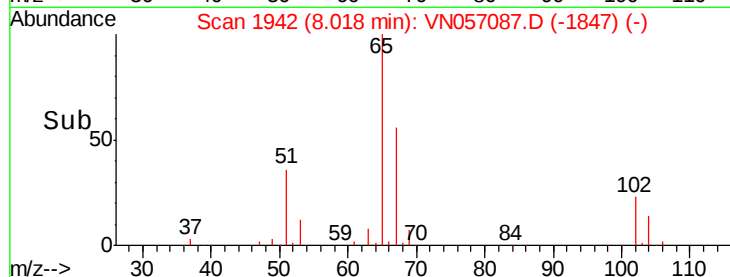
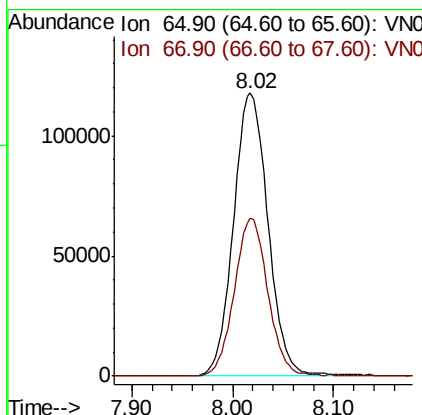
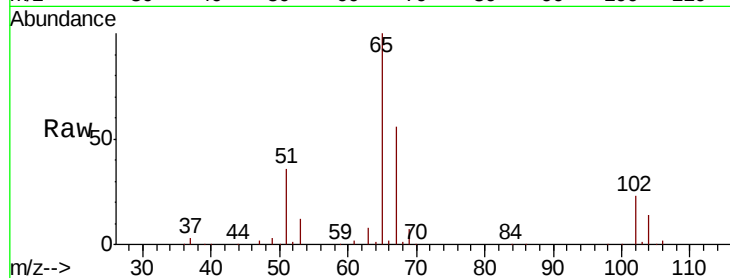




#33
 1,2-Dichloroethane-d4
 Concen: 48.693 ug/l
 RT: 8.02 min Scan# 1942
 Delta R.T. 0.01 min
 Lab File: VN057087.D
 Acq: 5 Aug 2019 17:11

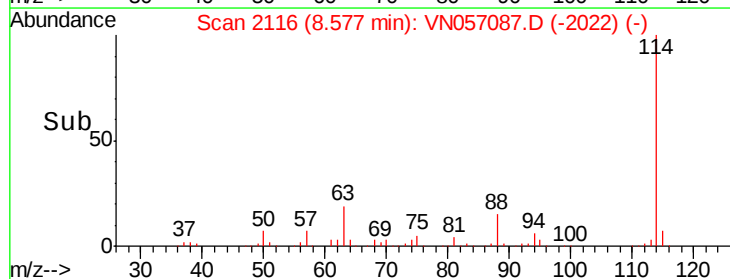
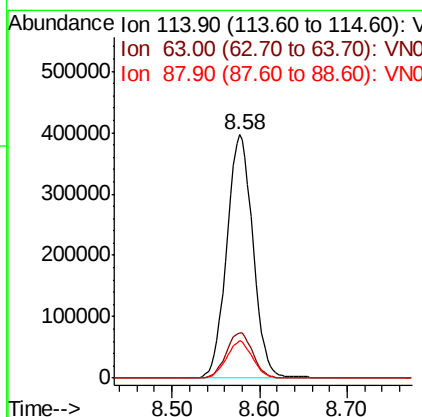
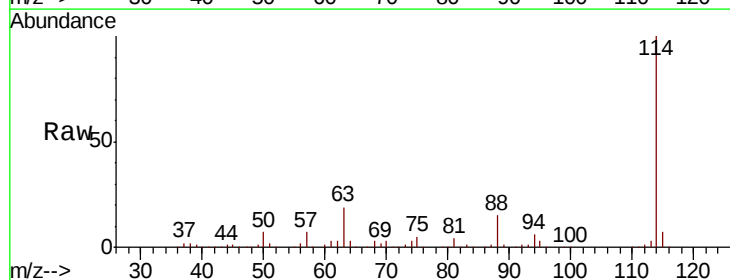
Instrument :
 MSVOA_N
 ClientSampled :

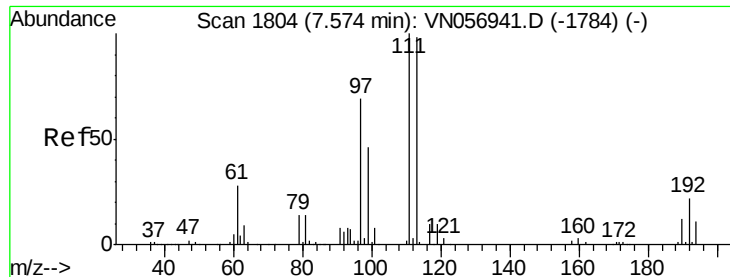
Tot Ion: 65 Resp: 279371
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 112.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057087.D
 Acq: 5 Aug 2019 17:11

Tgt Ion: 114 Resp: 822434
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 38.0
 88 15.3 0.0 30.0

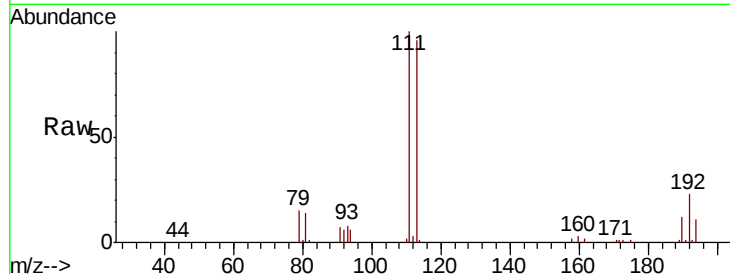




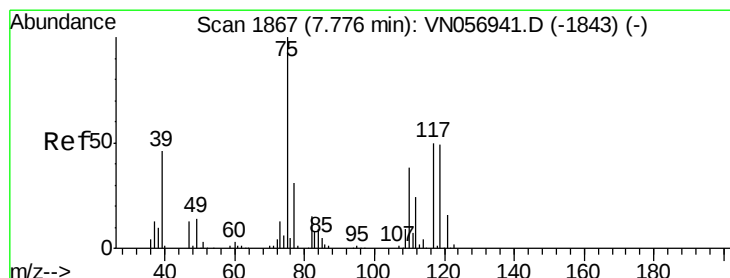
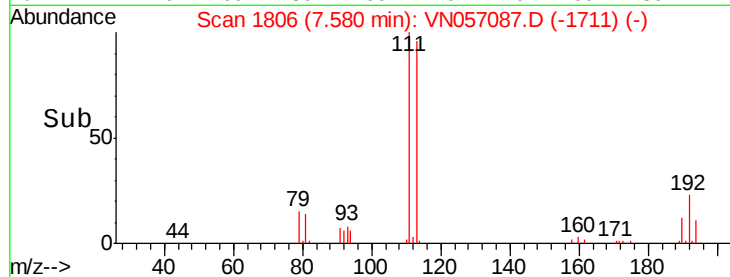
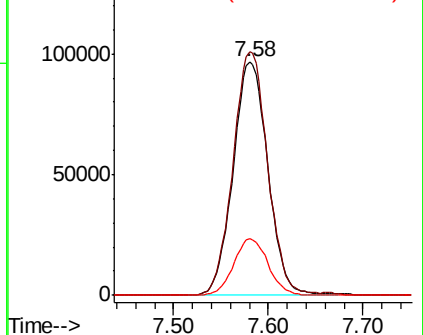
#35
 Dibromofluoromethane
 Concen: 47.045 ug/l
 RT: 7.58 min Scan# 1806
 Delta R.T. 0.01 min
 Lab File: VN057087.D
 Acq: 5 Aug 2019 17:11

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.5	82.0	123.0
192	23.9	18.4	27.6

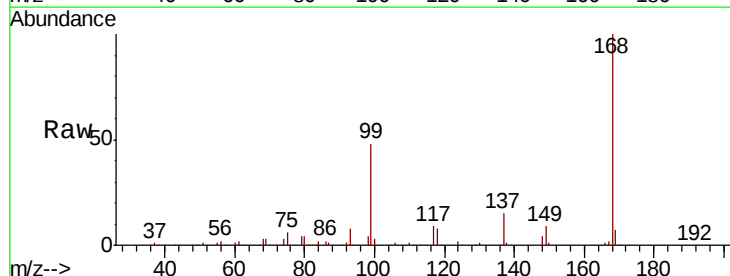


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

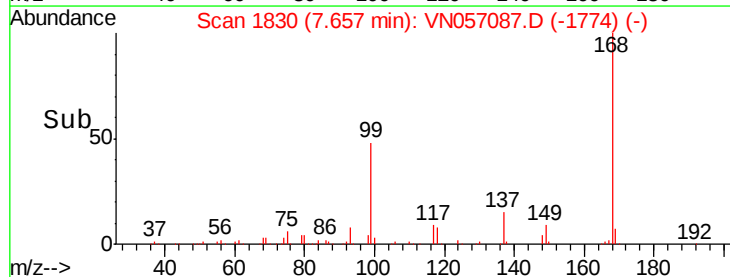
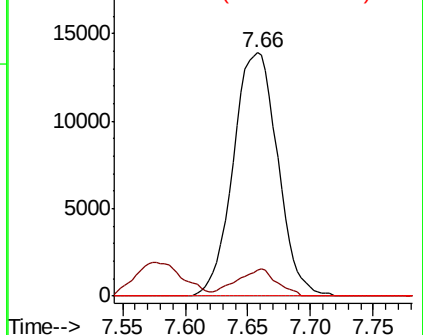


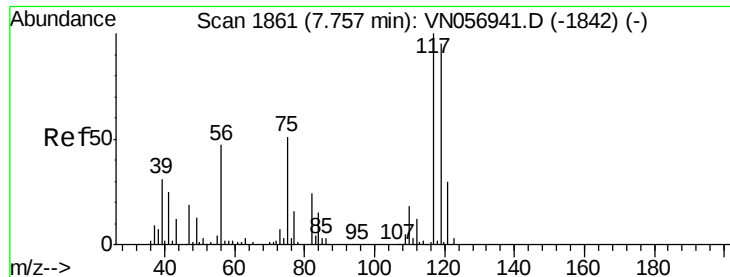
#36
 1,1-Dichloropropene
 Concen: 4.738 ug/l
 RT: 7.66 min Scan# 1830
 Delta R.T. -0.12 min
 Lab File: VN057087.D
 Acq: 5 Aug 2019 17:11

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.2	18.6	55.8#
77	0.0	25.2	37.8#



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: 6.939 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.10 min

Lab File: VN057087.D

Acq: 5 Aug 2019 17:11

Instrument :

MSVOA_N

ClientSampled :

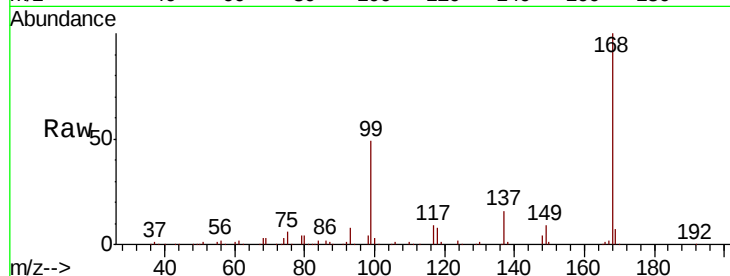
Tot Ion:117 Resp: 47501

Ion Ratio Lower Upper

117 100

119 6.1 75.3 112.9#

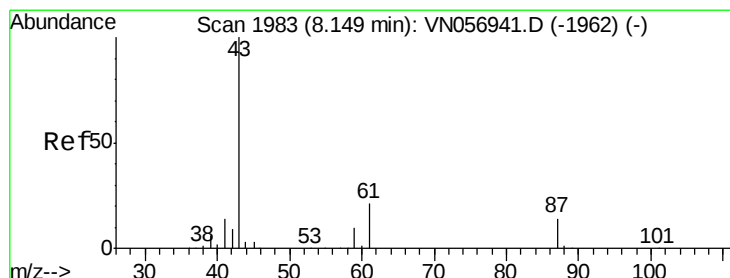
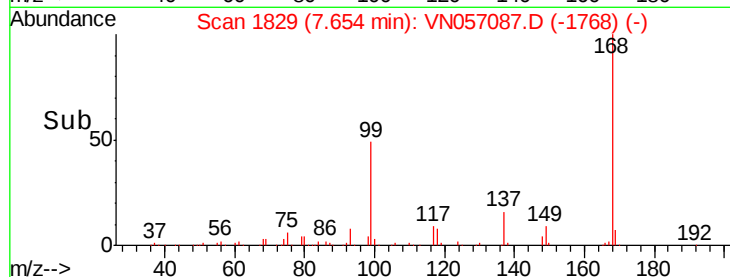
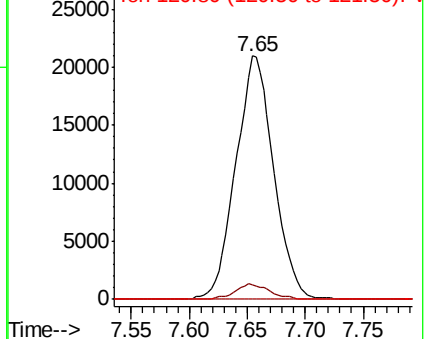
121 0.0 24.2 36.4#



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



#43

Isopropyl Acetate

Concen: 2.328 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.02 min

Lab File: VN057087.D

Acq: 5 Aug 2019 17:11

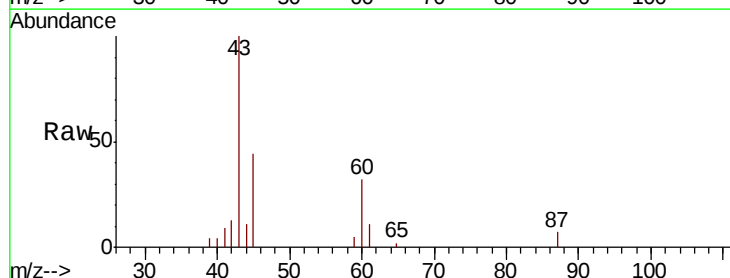
Tgt Ion: 43 Resp: 22301

Ion Ratio Lower Upper

43 100

61 21.1 23.0 34.6#

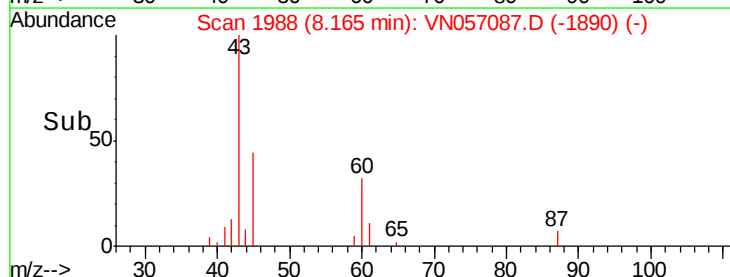
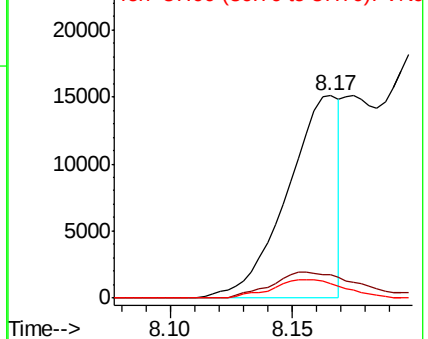
87 12.7 11.7 17.5

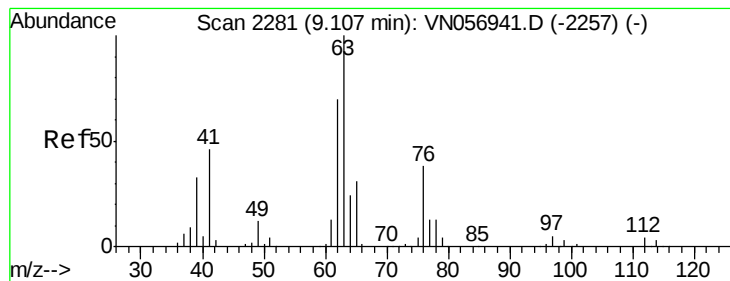


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.285 ug/l

RT: 9.26 min Scan# 2327

Delta R.T. 0.15 min

Lab File: VN057087.D

Acq: 5 Aug 2019 17:11

Instrument :

MSVOA_N

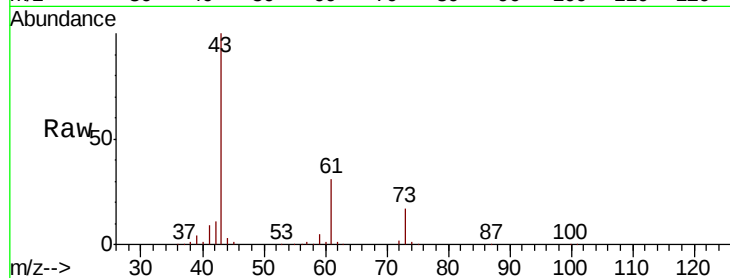
ClientSampleId :

Tot Ion: 63 Resp: 1697

Ion Ratio Lower Upper

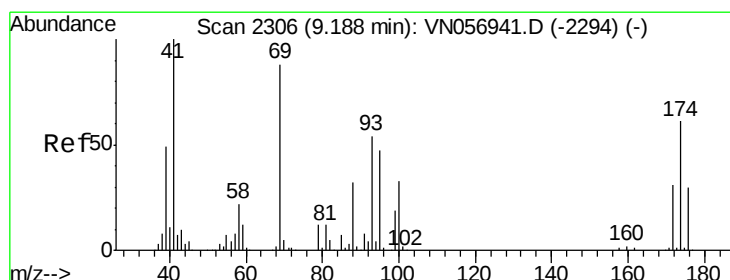
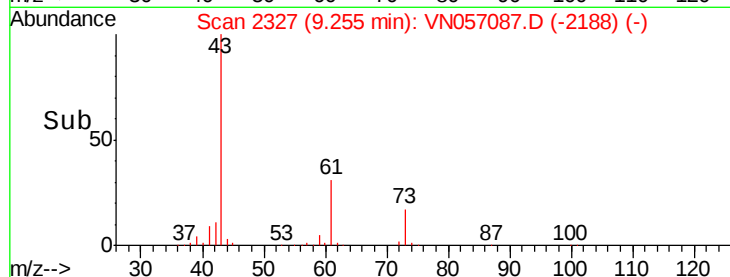
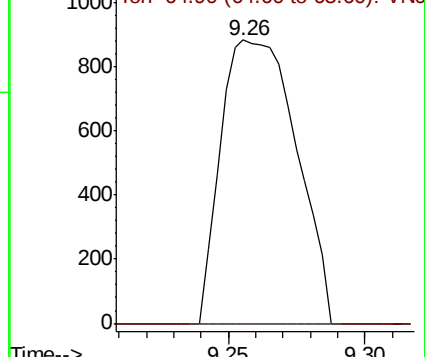
63 100

65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.863 ug/l

RT: 9.18 min Scan# 2302

Delta R.T. -0.01 min

Lab File: VN057087.D

Acq: 5 Aug 2019 17:11

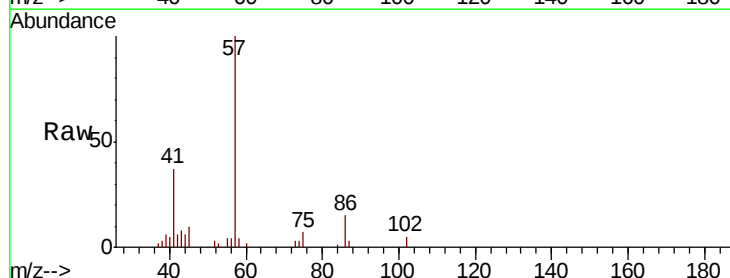
Tgt Ion: 41 Resp: 8615

Ion Ratio Lower Upper

41 100

69 0.0 73.4 110.0#

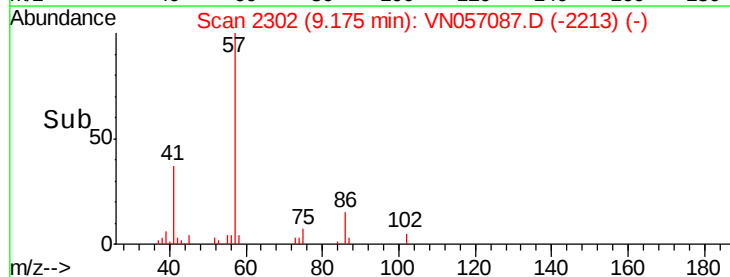
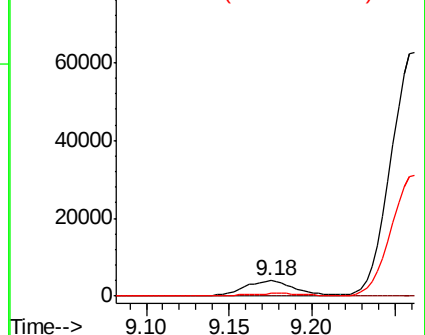
39 0.0 39.9 59.9#

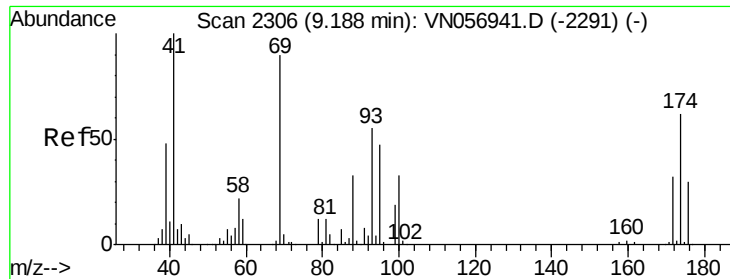


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 0.304 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.07 min

Lab File: VN057087.D

Acq: 5 Aug 2019 17:11

Instrument :

MSVOA_N

ClientSampled :

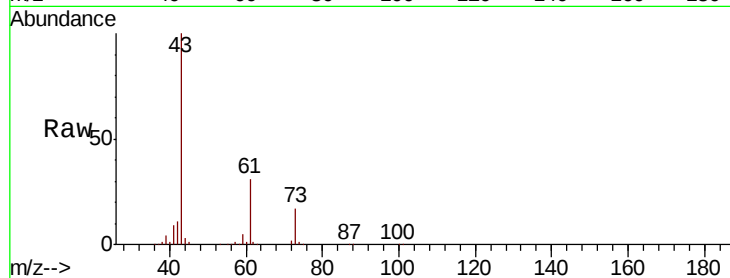
Tot Ion: 88 Resp: 29

Ion Ratio Lower Upper

88 100

43 4482055.2 22.2 33.2#

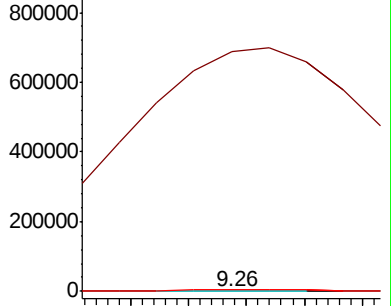
58 21627.6 54.1 81.1#



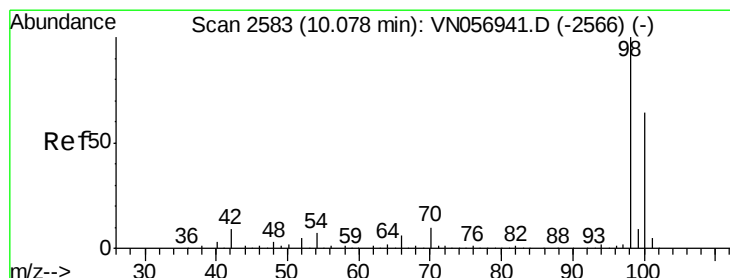
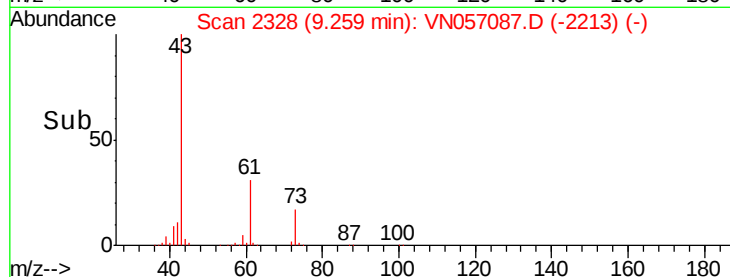
Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->



#50

Toluene-d8

Concen: 47.837 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.01 min

Lab File: VN057087.D

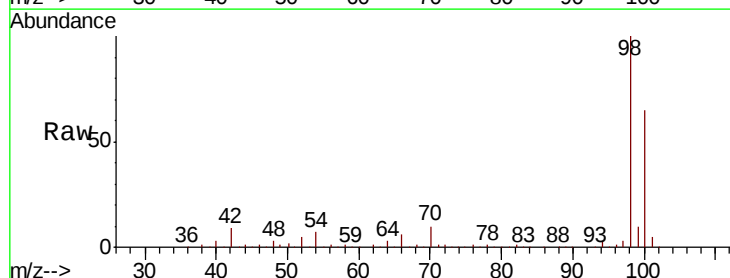
Acq: 5 Aug 2019 17:11

Tgt Ion: 98 Resp: 960458

Ion Ratio Lower Upper

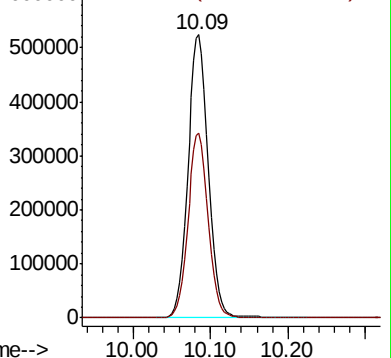
98 100

100 64.5 51.3 76.9

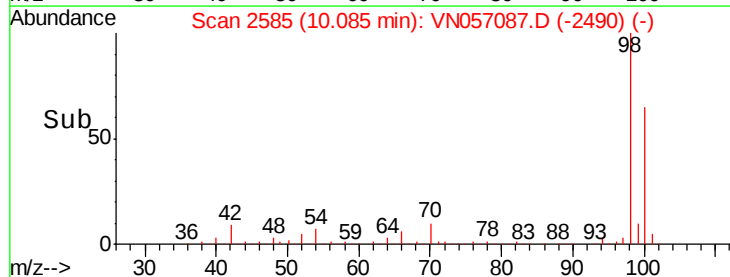


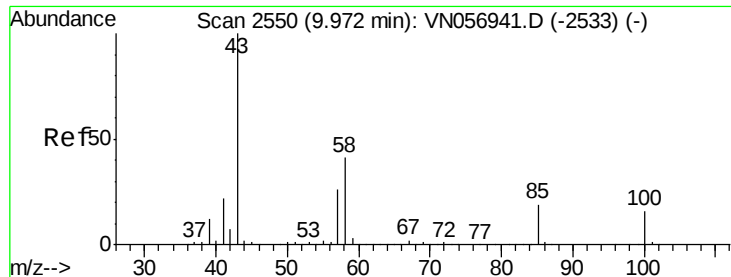
Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0



Time-->





#51

4-Methyl-2-Pentanone

Concen: 0.694 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.01 min

Lab File: VN057087.D

Acq: 5 Aug 2019 17:11

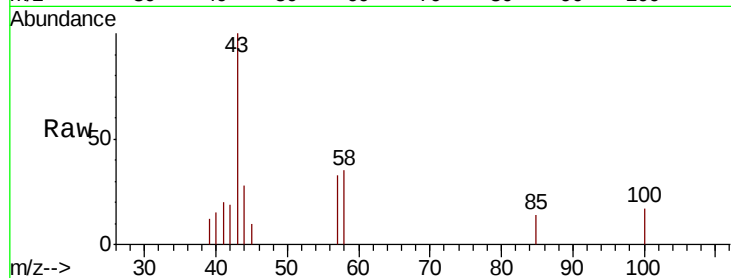
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 3951

Ion Ratio Lower Upper

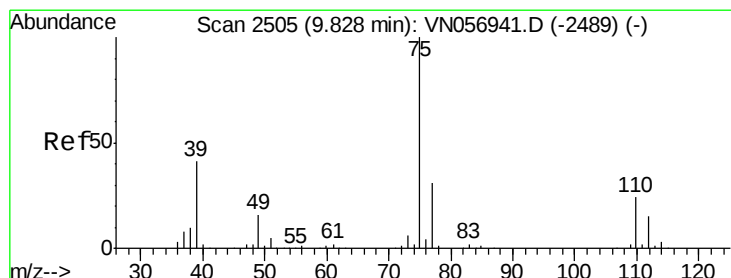
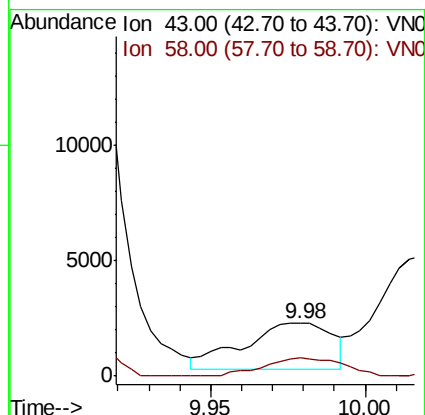
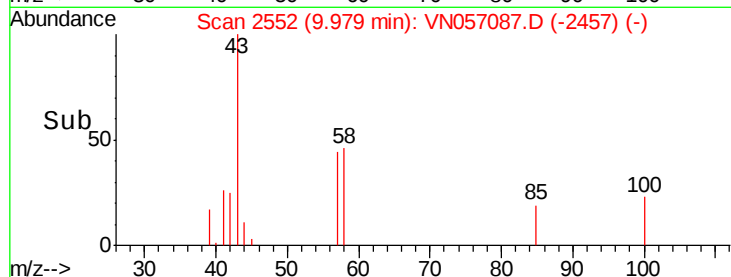
43 100

58 35.4 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VN056941.D (-2533) (-)

Ion 58.00 (57.70 to 58.70): VN056941.D (-2533) (-)



#54

cis-1,3-Dichloropropene

Concen: 6.637 ug/l

RT: 9.90 min Scan# 2526

Delta R.T. 0.07 min

Lab File: VN057087.D

Acq: 5 Aug 2019 17:11

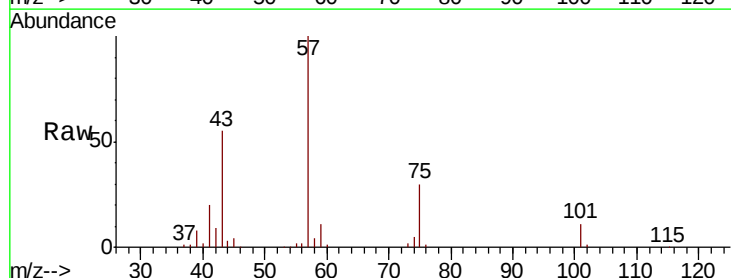
Tgt Ion: 75 Resp: 56613

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

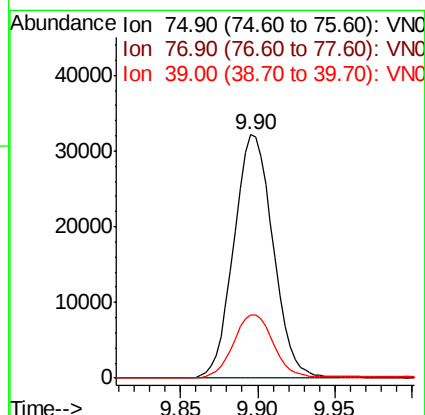
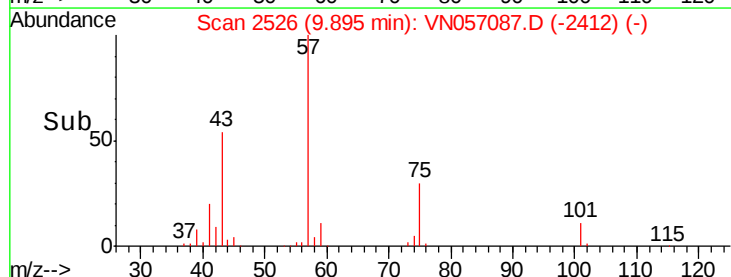
39 25.8 32.6 49.0#

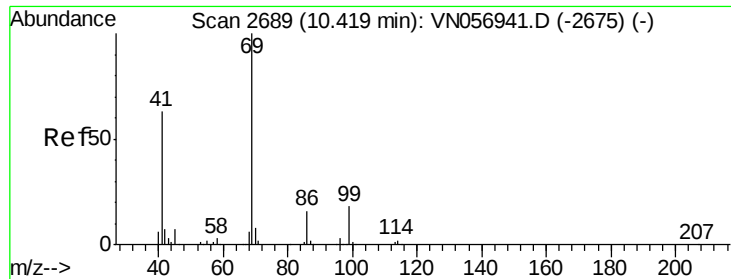


Abundance Ion 74.90 (74.60 to 75.60): VN056941.D (-2489) (-)

Ion 76.90 (76.60 to 77.60): VN056941.D (-2489) (-)

Ion 39.00 (38.70 to 39.70): VN056941.D (-2489) (-)





#56

Ethyl methacrylate

Concen: 1.854 ug/l

RT: 10.53 min Scan# 2724

Delta R.T. 0.11 min

Lab File: VN057087.D

Acq: 5 Aug 2019 17:11

Instrument :

MSVOA_N

ClientSampled :

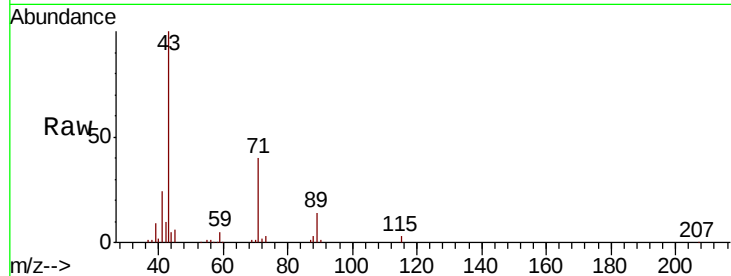
Tot Ion: 69 Resp: 789

Ion Ratio Lower Upper

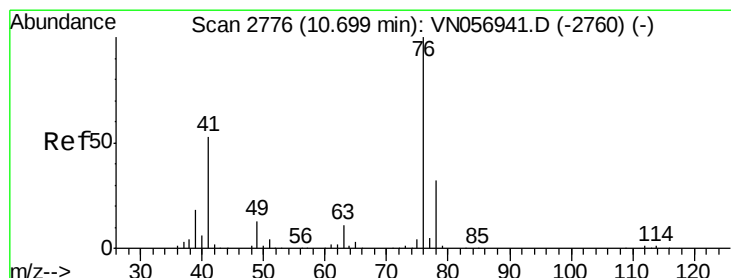
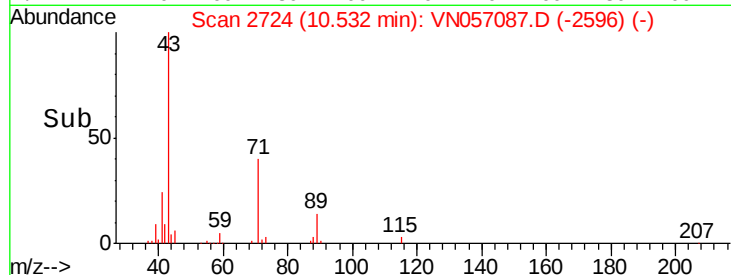
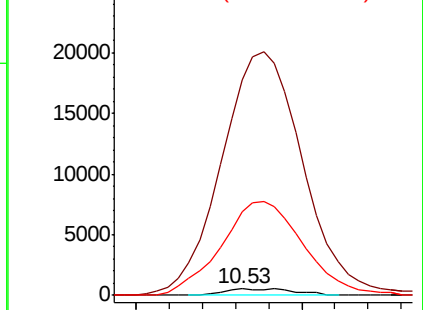
69 100

41 4379.5 49.2 73.8#

39 1703.8 23.1 34.7#



Abundance Ion 69.00 (68.70 to 69.70): VNO
Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO



#57

1,3-Dichloropropane

Concen: 1.320 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.06 min

Lab File: VN057087.D

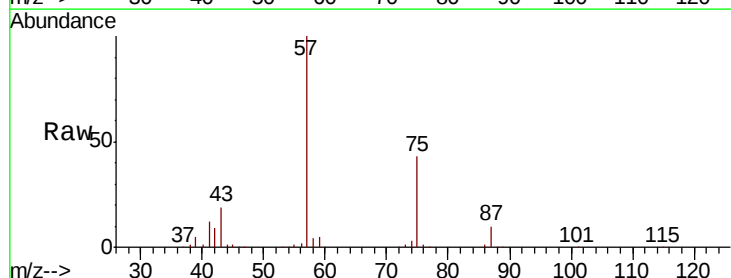
Acq: 5 Aug 2019 17:11

Tgt Ion: 76 Resp: 11751

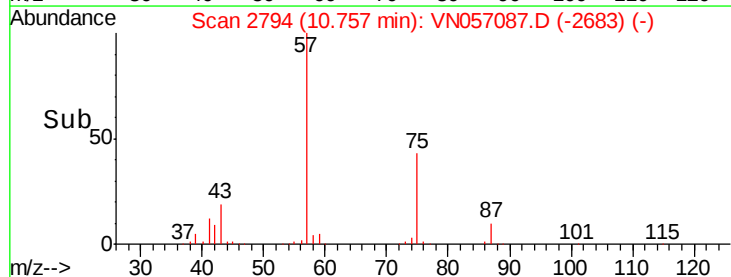
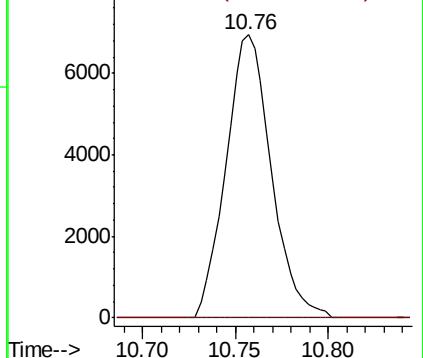
Ion Ratio Lower Upper

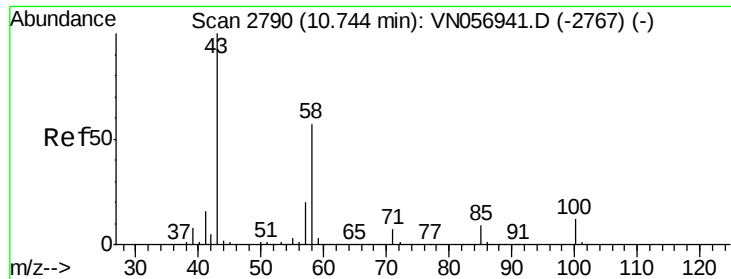
76 100

78 0.0 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VNO
Ion 77.90 (77.60 to 78.60): VNO

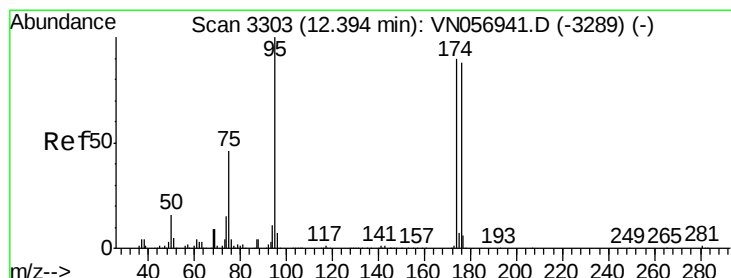
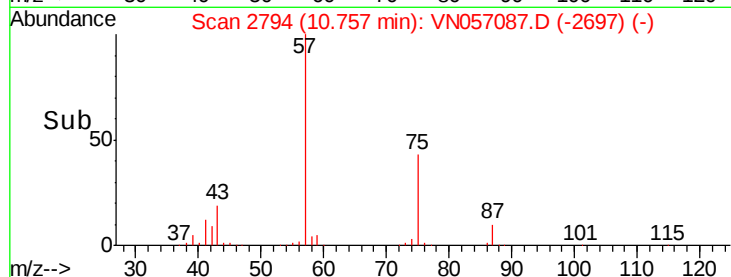
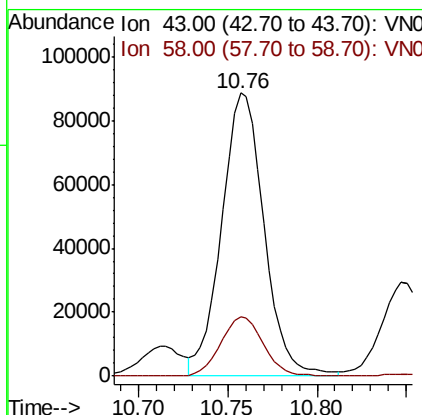
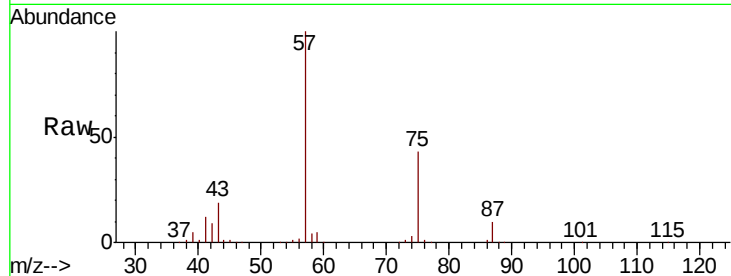




#59
2-Hexanone
Concen: 35.325 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.01 min
Lab File: VN057087.D
Acq: 5 Aug 2019 17:11

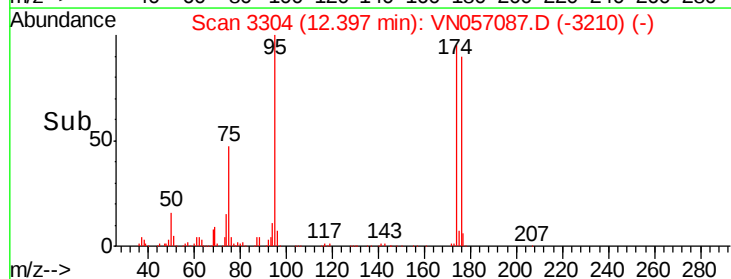
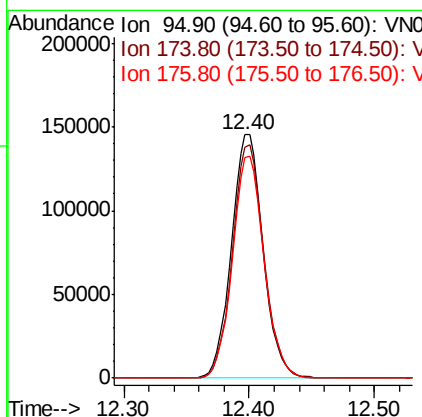
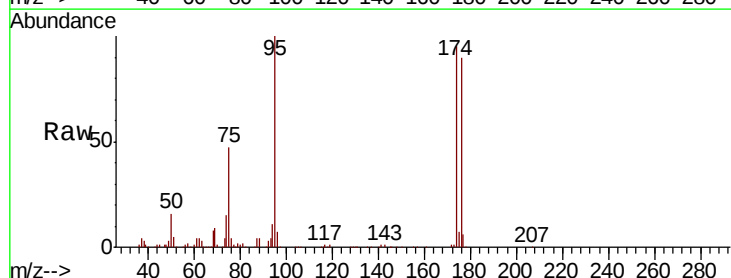
Instrument :
MSVOA_N
ClientSampled :

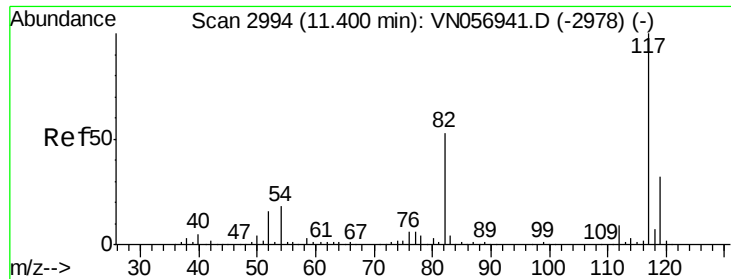
Tot Ion: 43 Resp: 145340
Ion Ratio Lower Upper
43 100
58 21.4 28.5 85.5#



#62
4-Bromofluorobenzene
Concen: 38.911 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN057087.D
Acq: 5 Aug 2019 17:11

Tgt Ion: 95 Resp: 254330
Ion Ratio Lower Upper
95 100
174 95.1 0.0 182.2
176 91.0 0.0 179.4

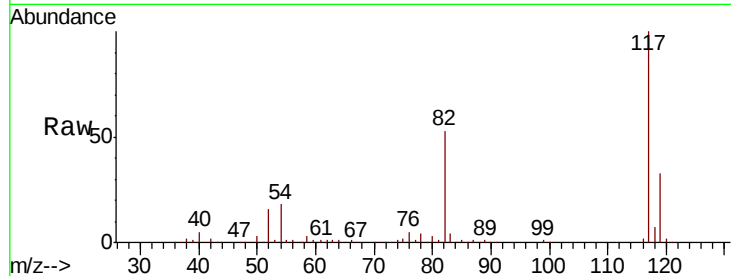




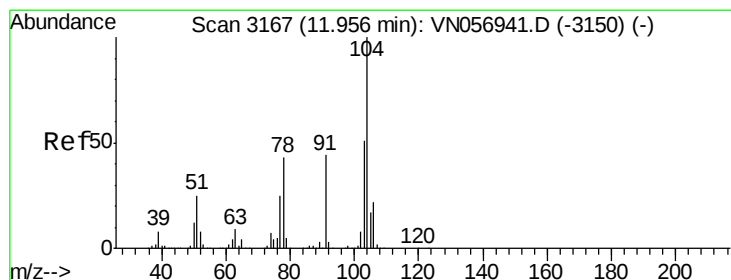
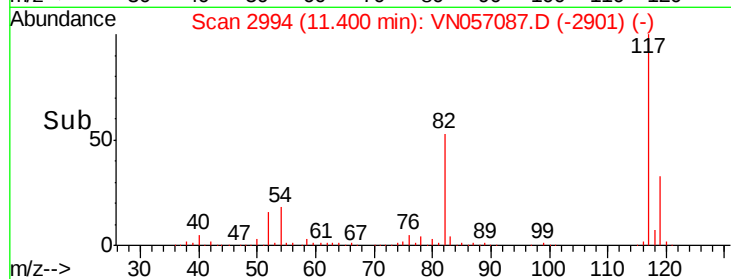
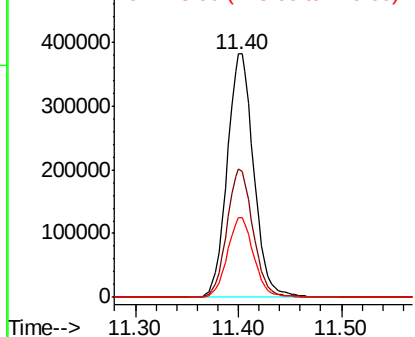
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN057087.D
Acq: 5 Aug 2019 17:11

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 684722
Ion Ratio Lower Upper
117 100
82 52.8 42.2 63.4
119 32.8 25.8 38.6

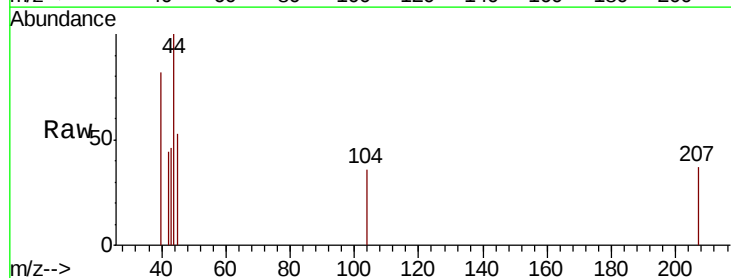


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

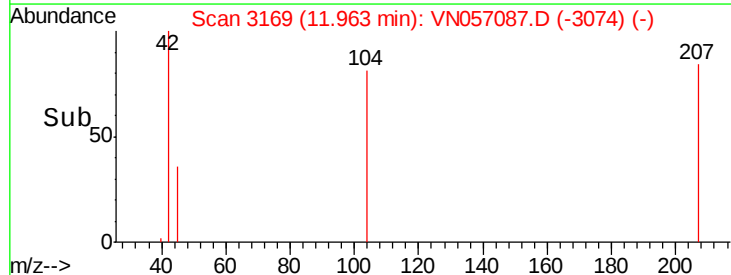
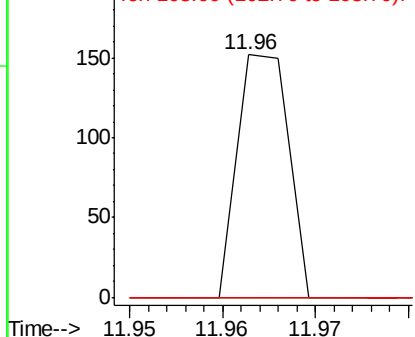


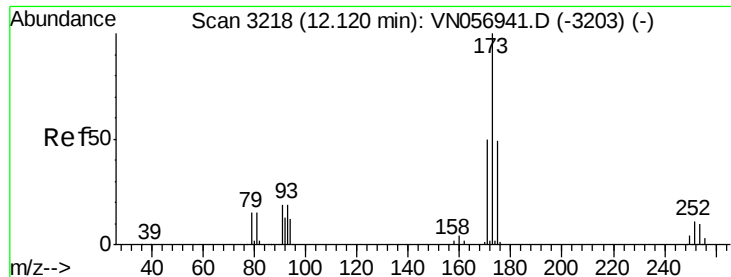
#70
Styrene
Concen: 1.870 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.01 min
Lab File: VN057087.D
Acq: 5 Aug 2019 17:11

Tgt Ion:104 Resp: 58
Ion Ratio Lower Upper
104 100
78 0.0 38.1 57.1#
103 0.0 44.3 66.5#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 0.317 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.28 min

Lab File: VN057087.D

Acq: 5 Aug 2019 17:11

Instrument :

MSVOA_N

ClientSampled :

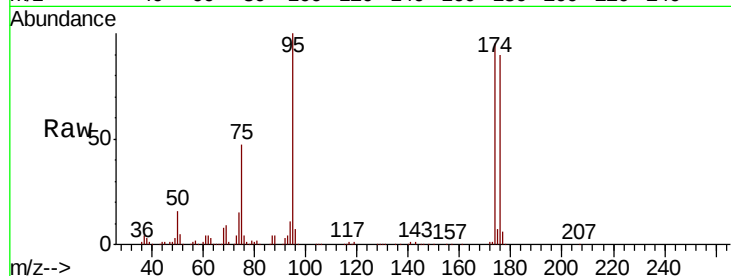
Tot Ion:173 Resp: 1164

Ion Ratio Lower Upper

173 100

175 1233.1 24.1 72.4#

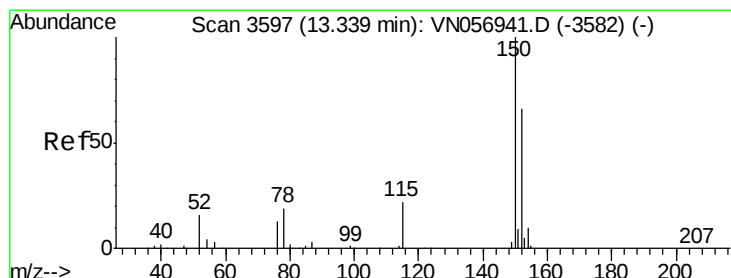
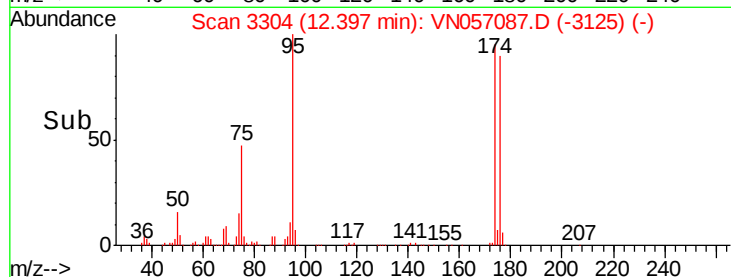
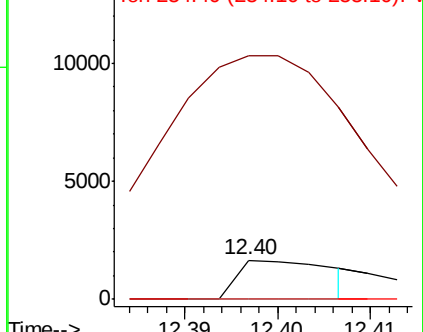
254 0.0 0.1 0.1#



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN057087.D

Acq: 5 Aug 2019 17:11

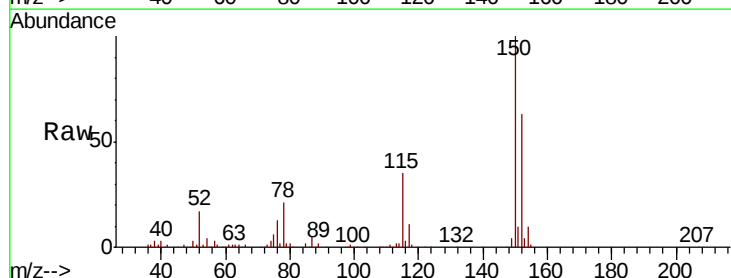
Tgt Ion:152 Resp: 182704

Ion Ratio Lower Upper

152 100

115 55.5 28.2 84.6

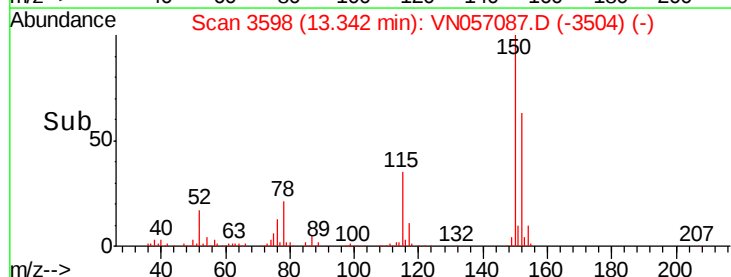
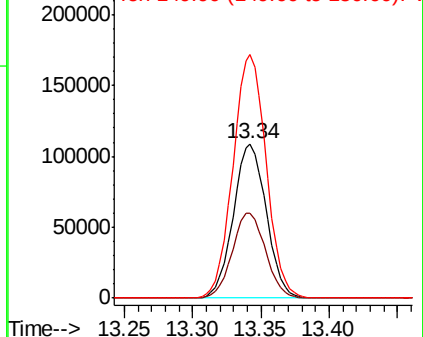
150 158.7 0.0 349.4

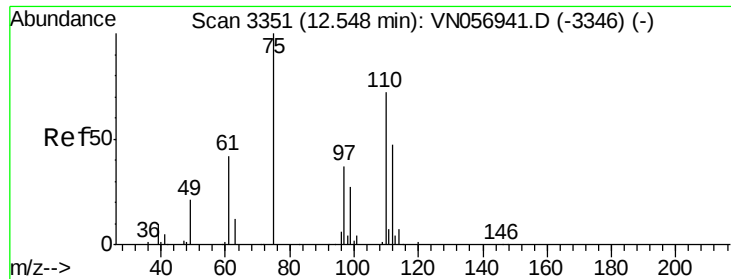


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 31.622 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN057087.D

Acq: 5 Aug 2019 17:11

Instrument :

MSVOA_N

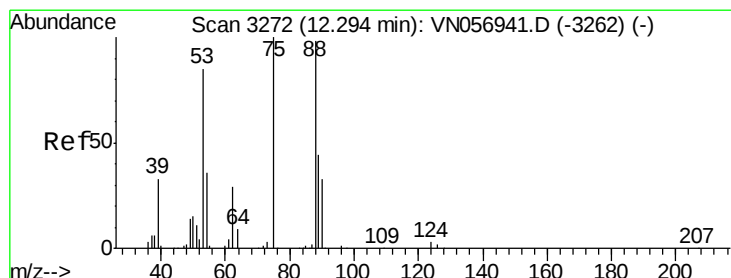
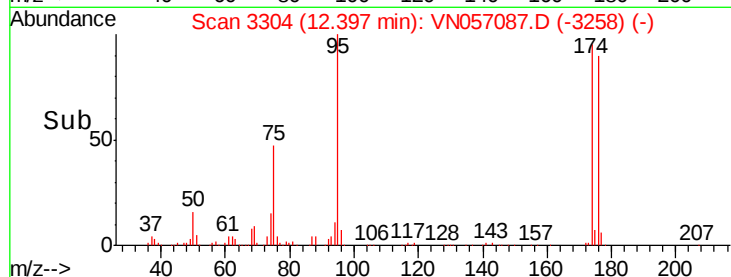
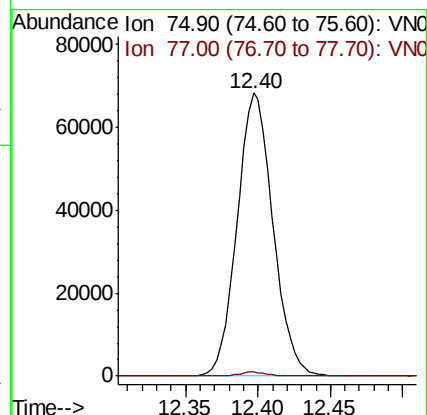
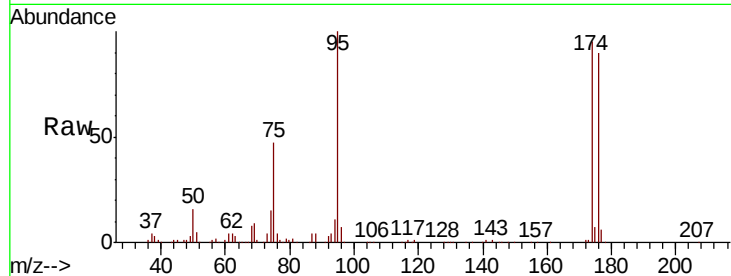
ClientSampleId :

Tot Ion: 75 Resp: 117331

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 101.601 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN057087.D

Acq: 5 Aug 2019 17:11

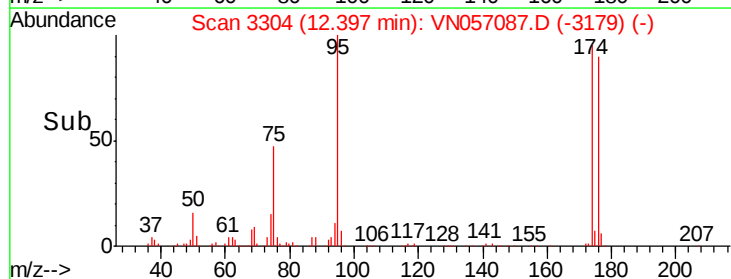
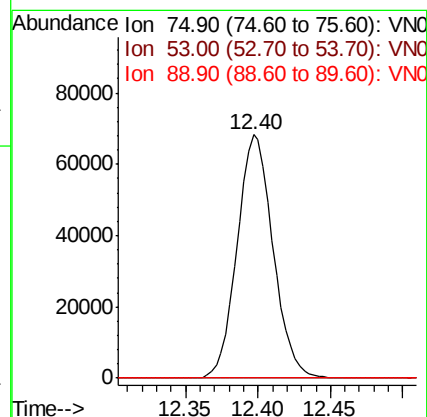
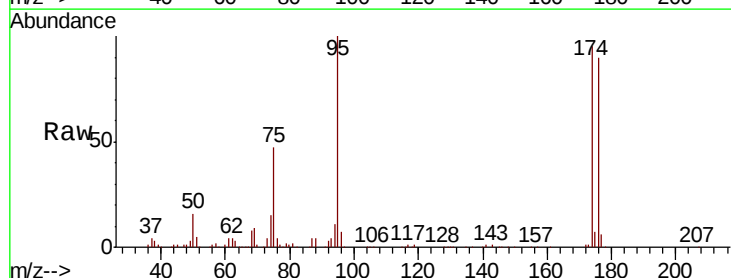
Tgt Ion: 75 Resp: 117331

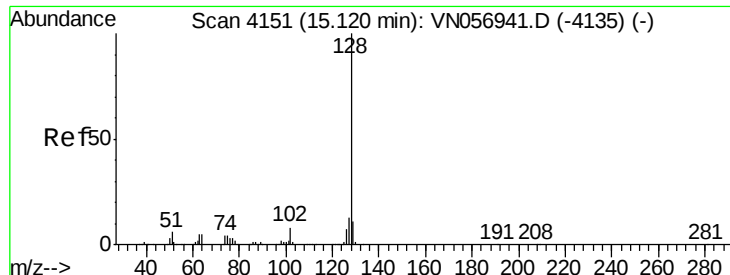
Ion Ratio Lower Upper

75 100

53 0.0 69.3 103.9#

89 0.0 35.8 53.6#

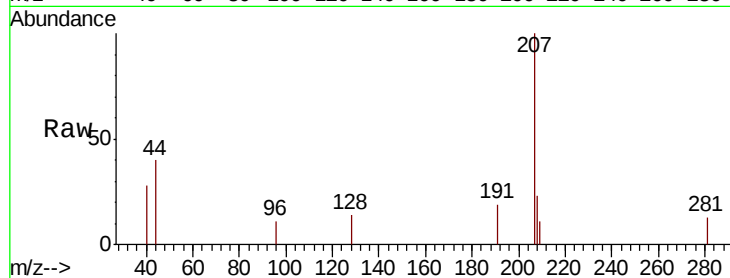




#95
Naphthalene
Concen: 3.600 ug/l
RT: 15.12 min Scan# 4152
Delta R.T. 0.00 min
Lab File: VN057087.D
Acq: 5 Aug 2019 17:11

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.0	15.0#
129	0.0	8.7	13.1#



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

