

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102919\
 Data File : VN059008.D
 Acq On : 29 Oct 2019 14:17
 Operator : JC/SP
 Sample : K5576-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 30 03:57:04 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	402325	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	647349	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	577251	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	210096	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	278924	47.27	ug/l	0.00
Spiked Amount			Recovery	=	94.54%	
35) Dibromofluoromethane	7.57	113	201209	47.27	ug/l	0.00
Spiked Amount			Recovery	=	94.54%	
50) Toluene-d8	10.08	98	809832	49.02	ug/l	0.00
Spiked Amount			Recovery	=	98.04%	
62) 4-Bromofluorobenzene	12.40	95	254415	41.93	ug/l	0.00
Spiked Amount			Recovery	=	83.86%	

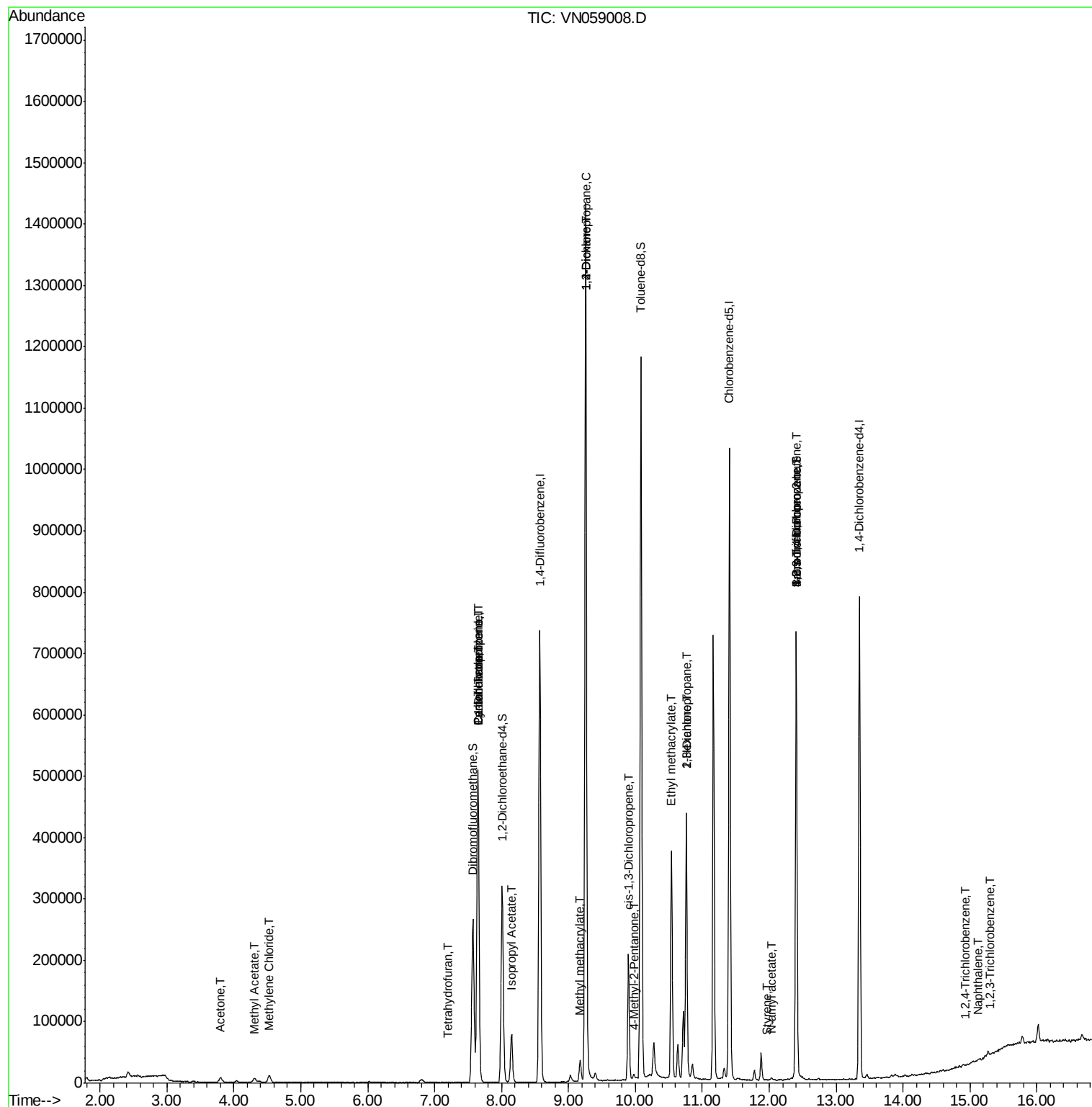
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.80	43	14372	4.929	ug/l	97
18) Methyl Acetate	4.30	43	11635	1.755	ug/l	98
20) Methylene Chloride	4.54	84	8940	1.796	ug/l #	83
29) Tetrahydrofuran	7.19	42	581	0.251	ug/l #	36
31) Cyclohexane	7.64	56	9060	1.068	ug/l #	7
36) 1,1-Dichloropropene	7.64	75	32769	4.944	ug/l #	51
38) Carbon Tetrachloride	7.64	117	39731	5.819	ug/l #	16
43) Isopropyl Acetate	8.15	43	92470	7.984	ug/l #	92
45) 1,2-Dichloropropane	9.26	63	1686	0.316	ug/l #	44
48) Methyl methacrylate	9.17	41	5469	1.041	ug/l #	14
49) 1,4-Dioxane	9.26	88	31	0.359	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	6134	0.907	ug/l	98
54) cis-1,3-Dichloropropene	9.90	75	34802	4.232	ug/l #	63
56) Ethyl methacrylate	10.54	69	1693	2.301	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	4414	0.529	ug/l #	43
59) 2-Hexanone	10.76	43	65915	12.610	ug/l #	54
70) Styrene	11.96	104	60	1.718	ug/l #	24
71) Bromoform	12.40	173	1530	0.445	ug/l #	1
74) N-amyl acetate	12.03	43	2831	0.407	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	132346	27.180	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	132346	70.807	ug/l #	10
93) 1,2,4-Trichlorobenzene	14.92	180	260	2.580	ug/l #	72
95) Naphthalene	15.13	128	1001	2.305	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.30	180	366	2.480	ug/l #	34

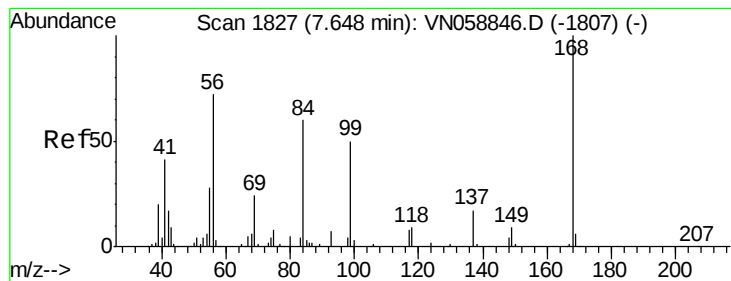
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 19 00:16:20 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN059008.D

Acq: 29 Oct 2019 14:17

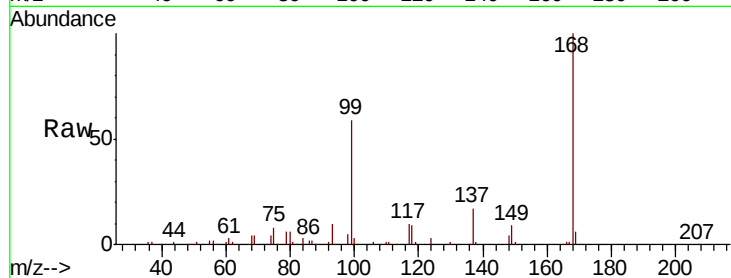
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 402325

Ion Ratio Lower Upper

168 100

99 59.1 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): VN058846.D (-1807) (-)

Ion 98.90 (98.60 to 99.60): VN058846.D (-1807) (-)

7.65

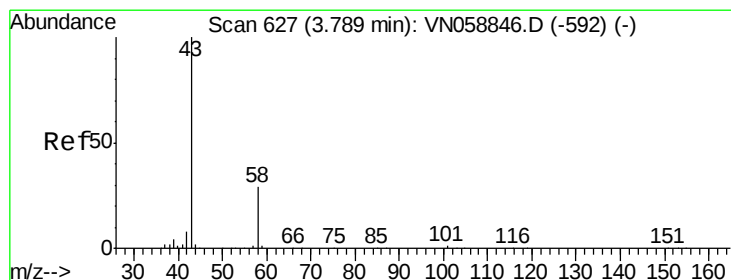
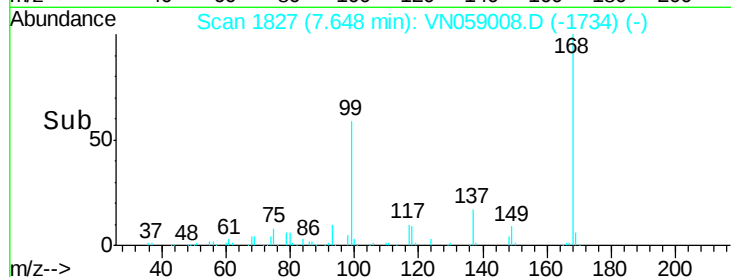
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 4.929 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN059008.D

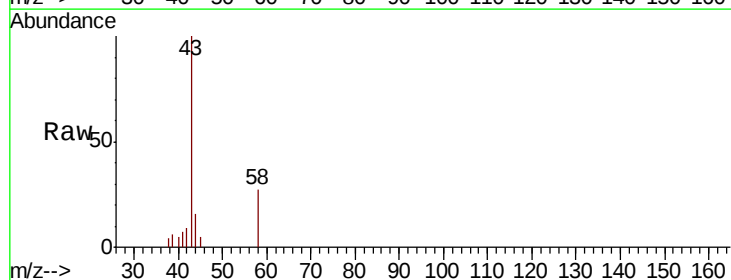
Acq: 29 Oct 2019 14:17

Tgt Ion: 43 Resp: 14372

Ion Ratio Lower Upper

43 100

58 27.5 23.1 34.7



Abundance Ion 43.00 (42.70 to 43.70): VN058846.D (-592) (-)

Ion 58.00 (57.70 to 58.70): VN058846.D (-592) (-)

3.80

6000

5000

4000

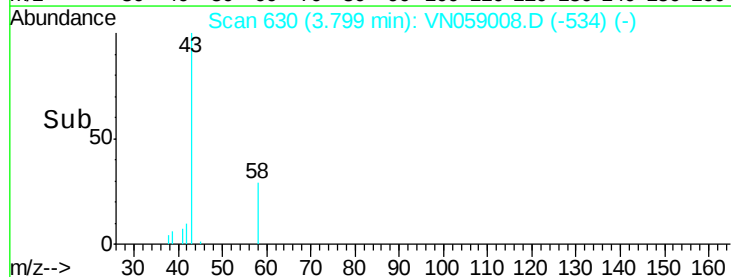
3000

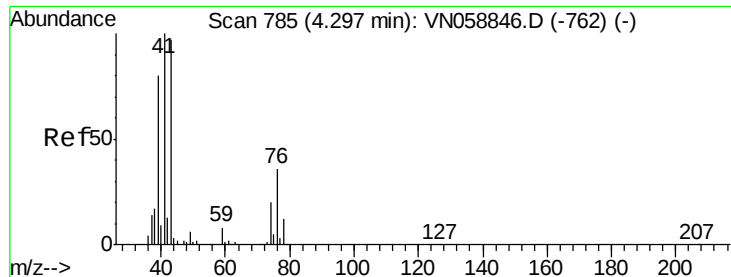
2000

1000

0

Time-->

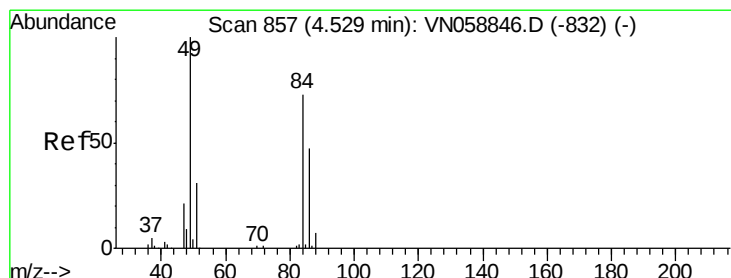
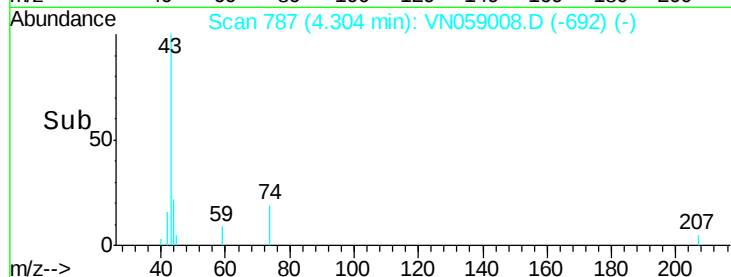
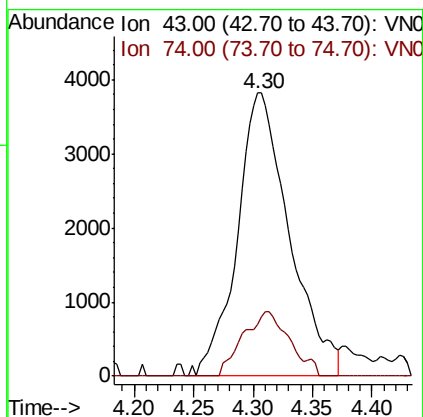
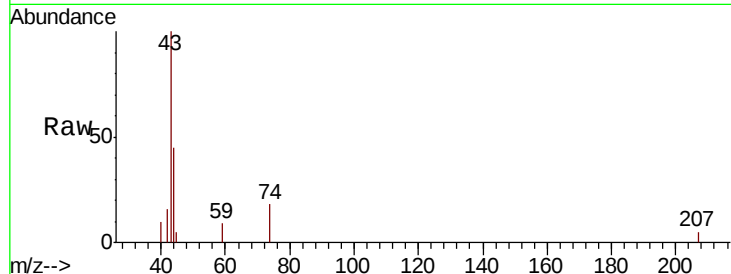




#18
Methvl Acetate
Concen: 1.755 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.01 min
Lab File: VN059008.D
Acq: 29 Oct 2019 14:17

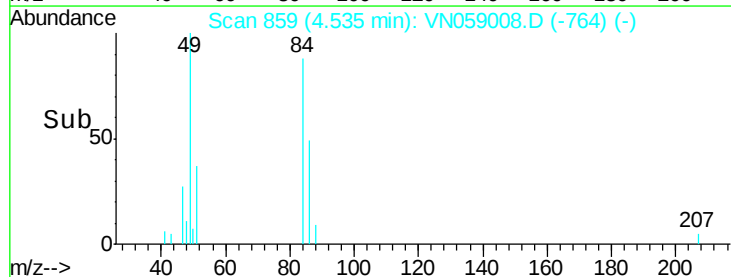
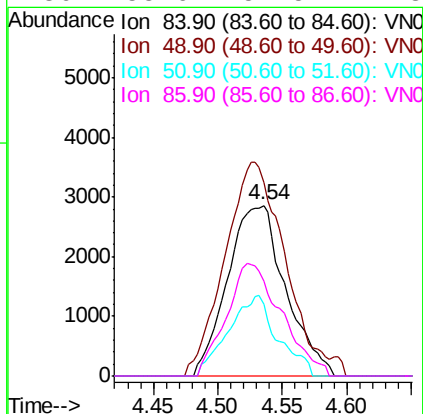
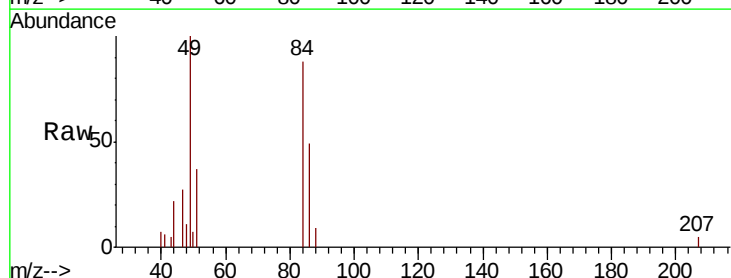
Instrument :
MSVOA_N
ClientSampleId :

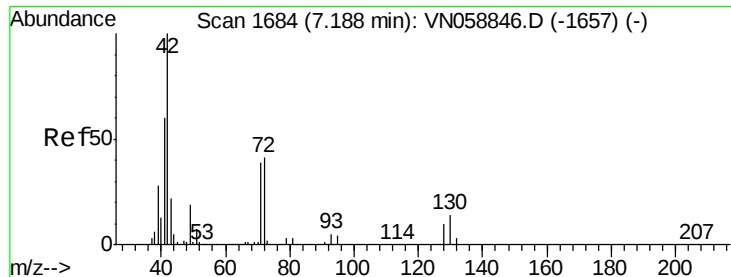
Tot Ion: 43 Resp: 11635
Ion Ratio Lower Upper
43 100
74 20.3 17.1 25.7



#20
Methylene Chloride
Concen: 1.796 ug/l
RT: 4.54 min Scan# 859
Delta R.T. 0.01 min
Lab File: VN059008.D
Acq: 29 Oct 2019 14:17

Tgt Ion: 84 Resp: 8940
Ion Ratio Lower Upper
84 100
49 106.4 109.6 164.4#
51 41.7 33.8 50.6
86 55.6 51.5 77.3

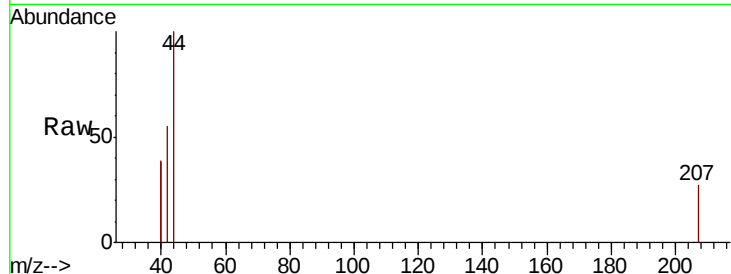




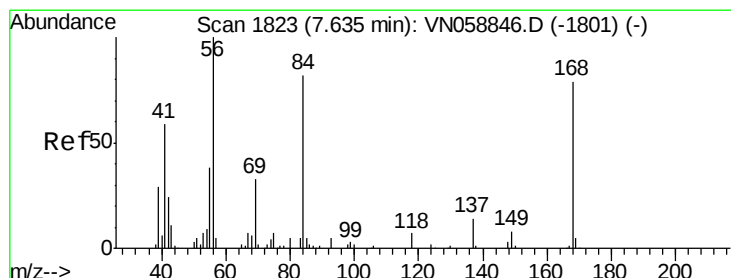
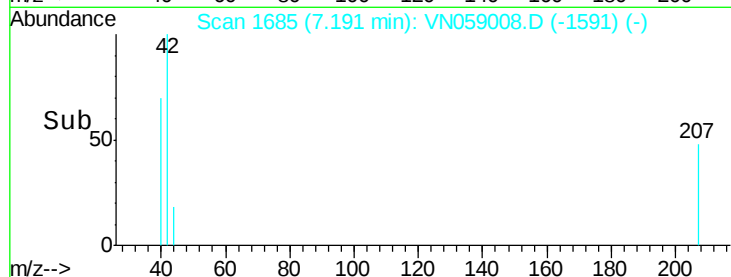
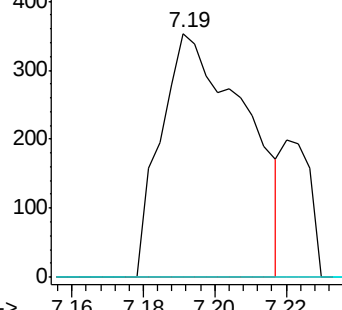
#29
Tetrahydrofuran
Concen: 0.251 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. 0.00 min
Lab File: VN059008.D
Acq: 29 Oct 2019 14:17

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 42 Resp: 581
Ion Ratio Lower Upper
42 100
72 0.0 32.2 48.2#
71 0.0 30.6 45.8#

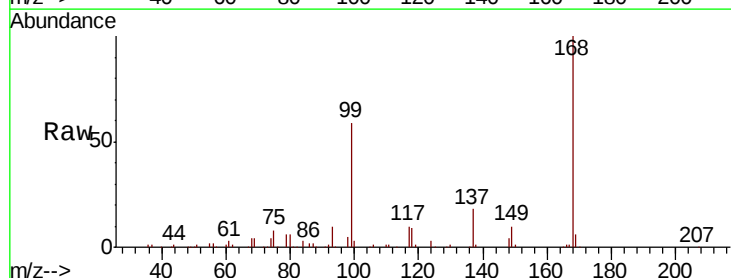


Abundance Ion 42.00 (41.70 to 42.70): VNC
Ion 72.00 (71.70 to 72.70): VNC
Ion 71.00 (70.70 to 71.70): VNC

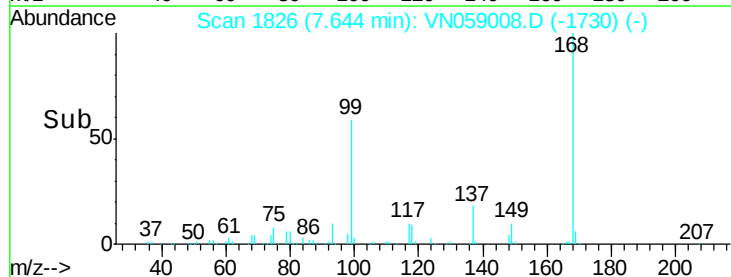
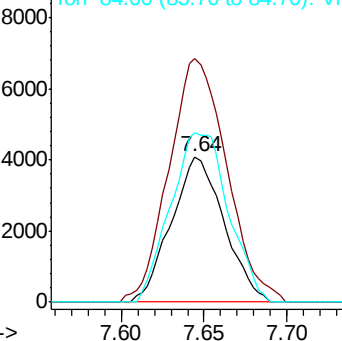


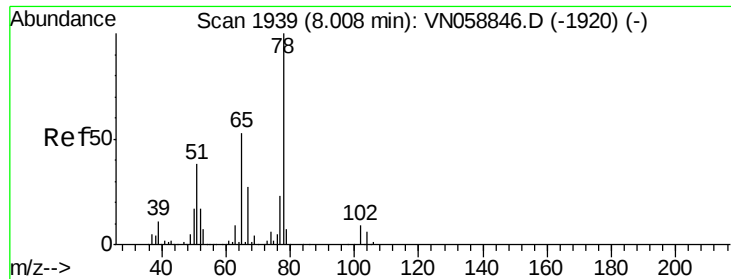
#31
Cyclohexane
Concen: 1.068 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN059008.D
Acq: 29 Oct 2019 14:17

Tgt Ion: 56 Resp: 9060
Ion Ratio Lower Upper
56 100
69 162.5 26.2 39.4#
84 116.2 65.6 98.4#



Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

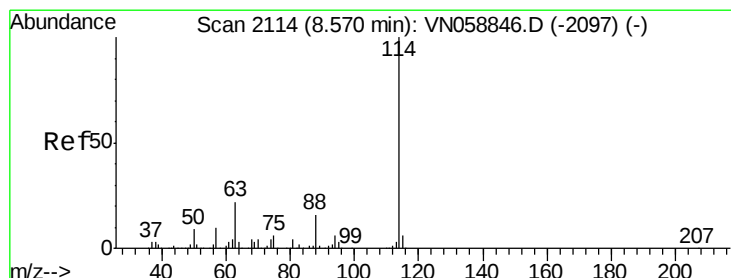
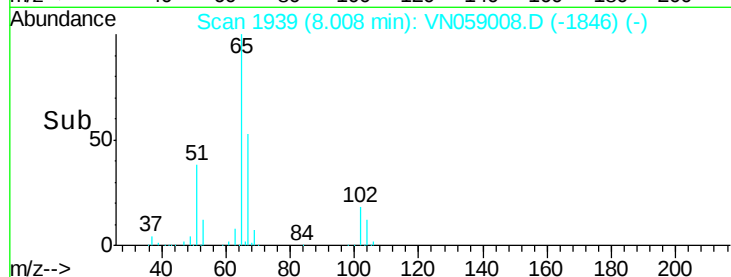
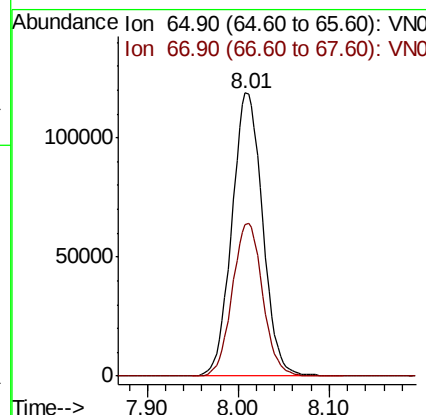
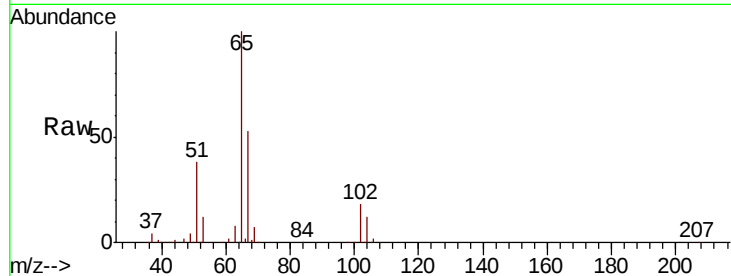




#33
 1,2-Dichloroethane-d4
 Concen: 47.269 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. 0.00 min
 Lab File: VN059008.D
 Acq: 29 Oct 2019 14:17

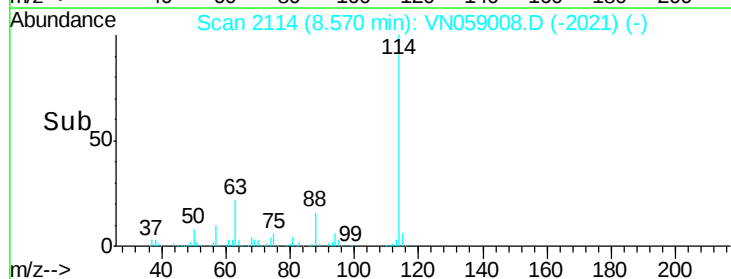
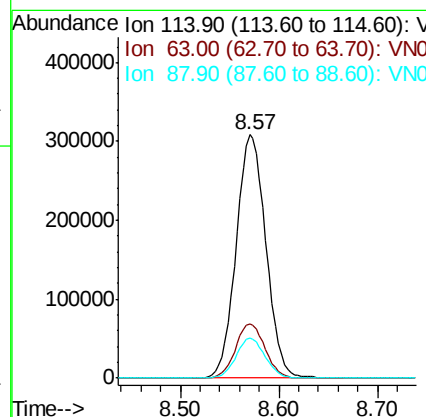
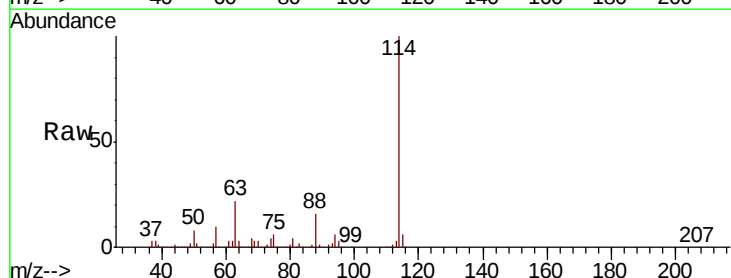
Instrument :
 MSVOA_N
 ClientSampleId :

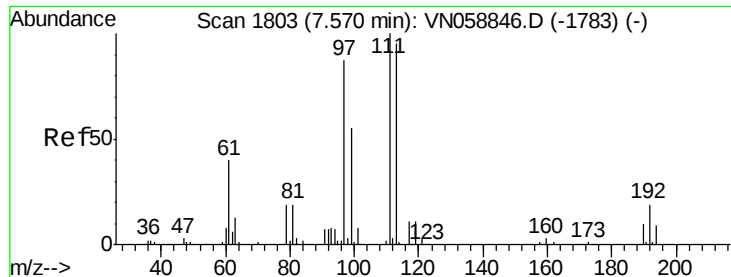
Tot Ion: 65 Resp: 278924
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 103.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN059008.D
 Acq: 29 Oct 2019 14:17

Tgt Ion: 114 Resp: 647349
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 44.4
 88 16.4 0.0 31.4

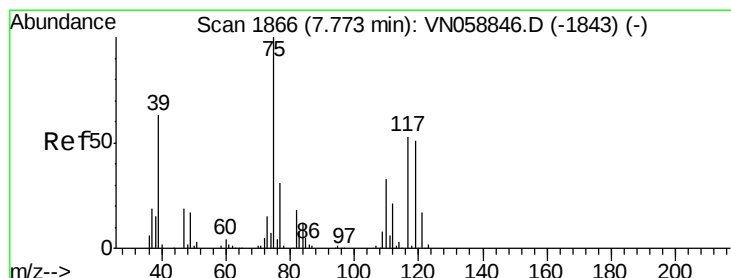
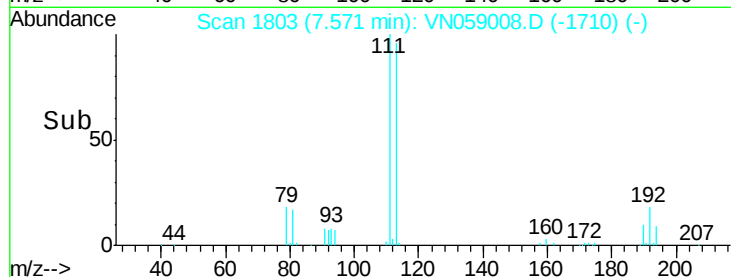
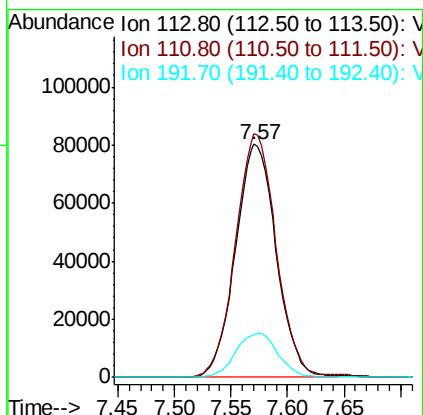
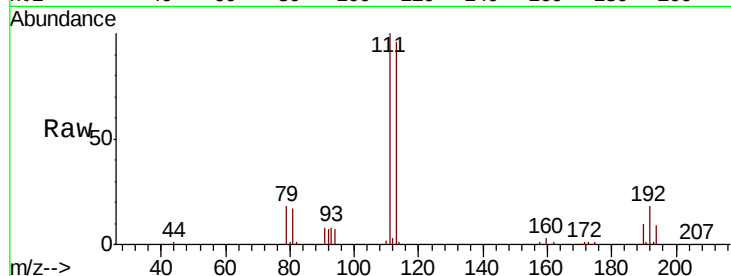




#35
Dibromofluoromethane
Concen: 47.275 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN059008.D
Acq: 29 Oct 2019 14:17

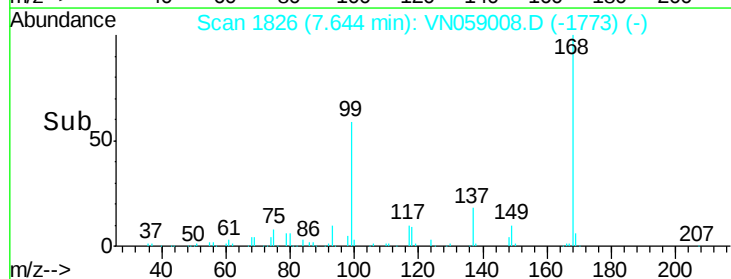
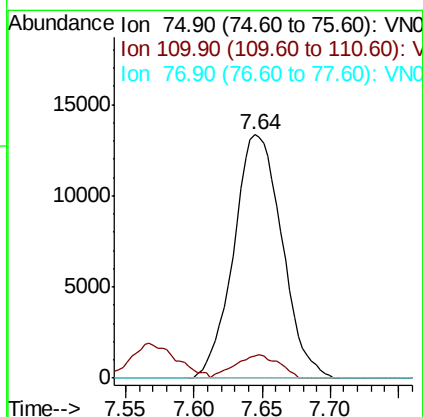
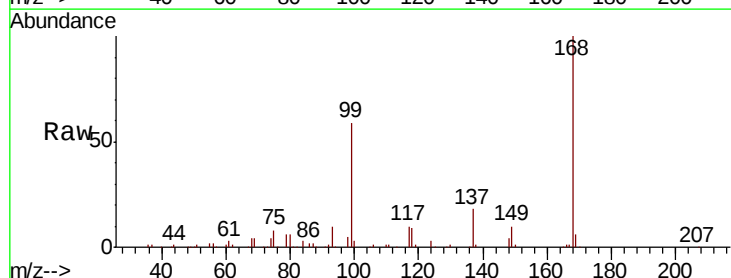
Instrument :
MSVOA_N
ClientSampled :

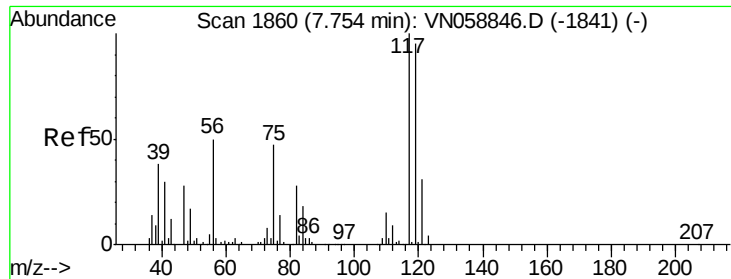
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.0	82.0	123.0
192	19.6	15.0	22.6



#36
1,1-Dichloropropene
Concen: 4.944 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.13 min
Lab File: VN059008.D
Acq: 29 Oct 2019 14:17

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.5	16.3	48.9#
77	0.0	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 5.819 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN059008.D

Acq: 29 Oct 2019 14:17

Instrument :

MSVOA_N

ClientSampleId :

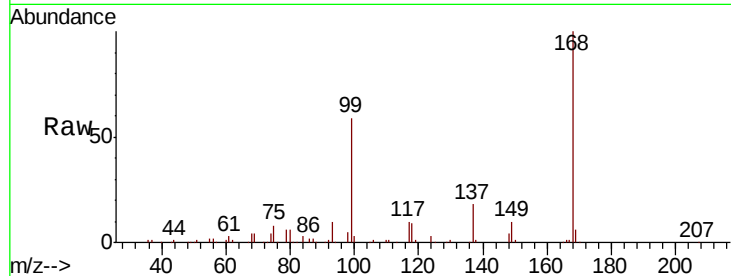
Tot Ion:117 Resp: 39731

Ion Ratio Lower Upper

117 100

119 5.0 75.7 113.5#

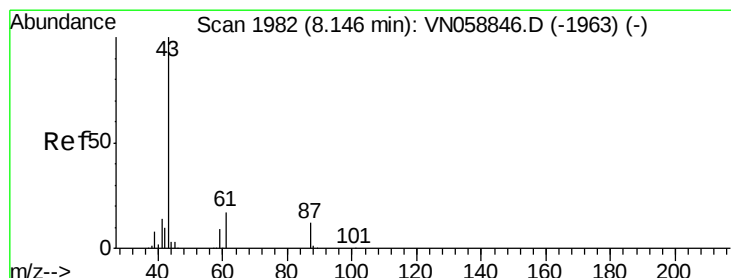
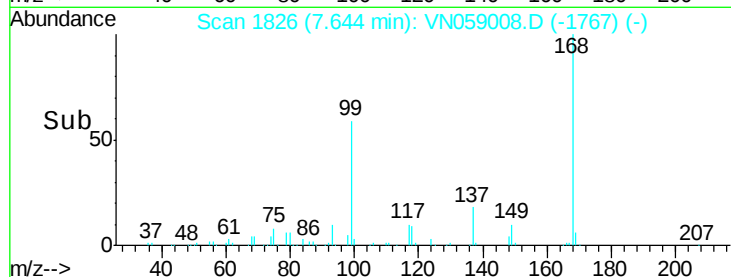
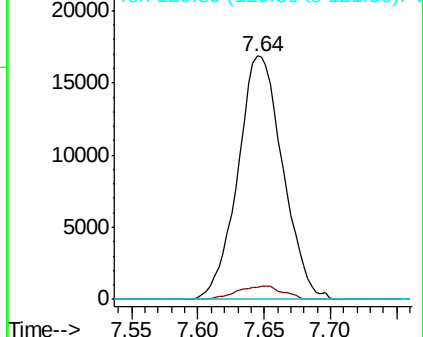
121 0.0 25.0 37.6#



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



#43

Isopropyl Acetate

Concen: 7.984 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VN059008.D

Acq: 29 Oct 2019 14:17

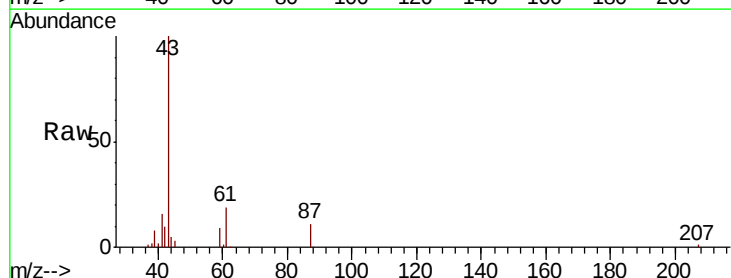
Tgt Ion: 43 Resp: 92470

Ion Ratio Lower Upper

43 100

61 19.4 20.2 30.2#

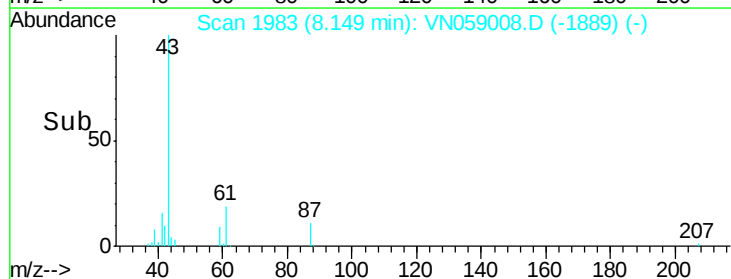
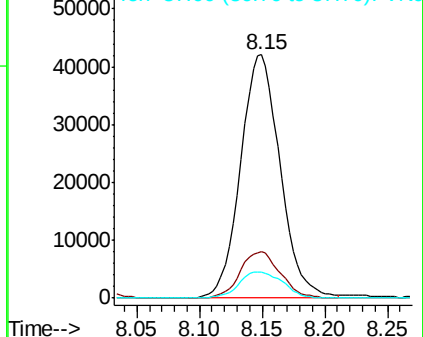
87 11.9 9.5 14.3

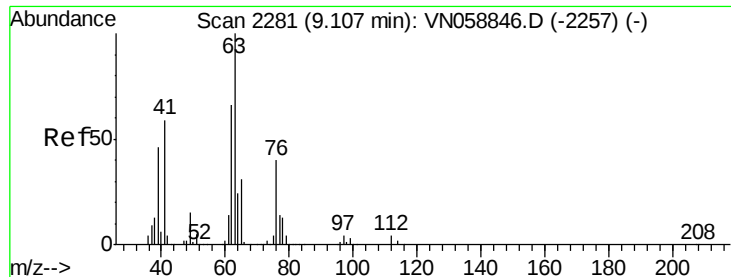


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.316 ug/l

RT: 9.26 min Scan# 2327

Delta R.T. 0.15 min

Lab File: VN059008.D

Acq: 29 Oct 2019 14:17

Instrument :

MSVOA_N

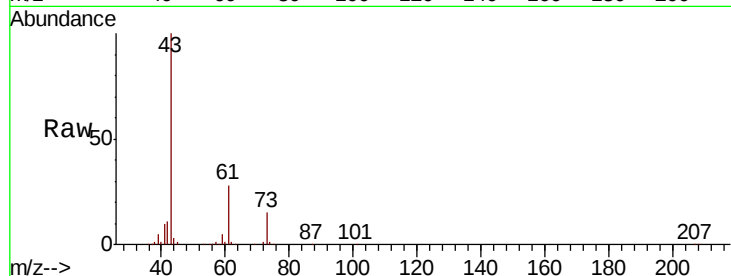
ClientSampled :

Tot Ion: 63 Resp: 1686

Ion Ratio Lower Upper

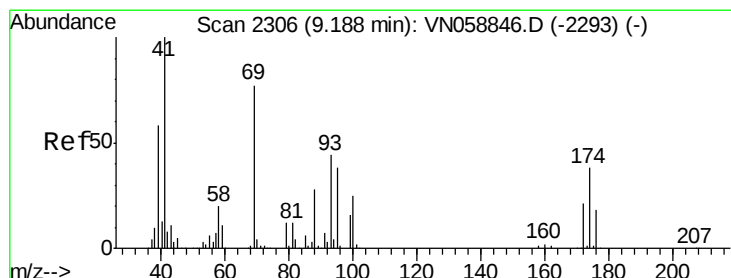
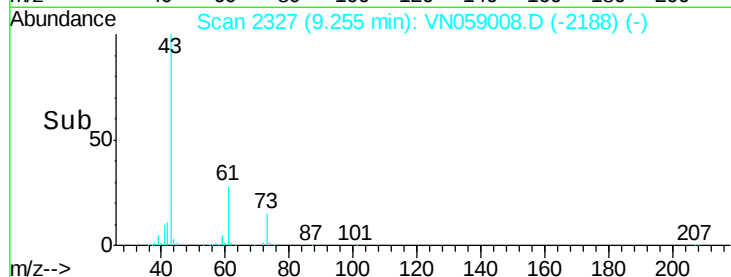
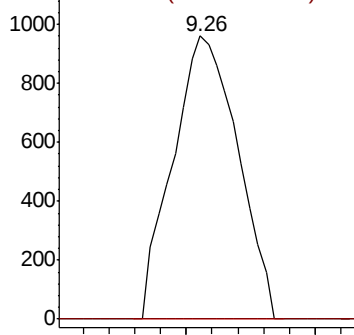
63 100

65 0.0 24.5 36.7#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.041 ug/l

RT: 9.17 min Scan# 2299

Delta R.T. -0.02 min

Lab File: VN059008.D

Acq: 29 Oct 2019 14:17

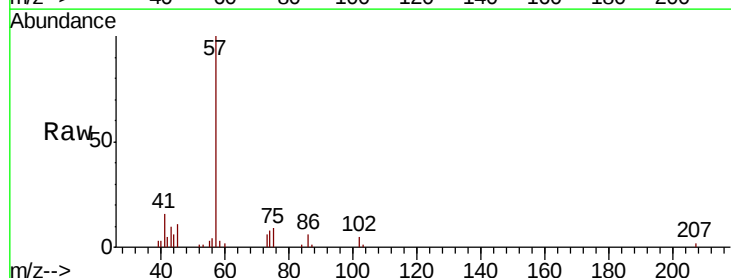
Tgt Ion: 41 Resp: 5469

Ion Ratio Lower Upper

41 100

69 0.0 63.8 95.6#

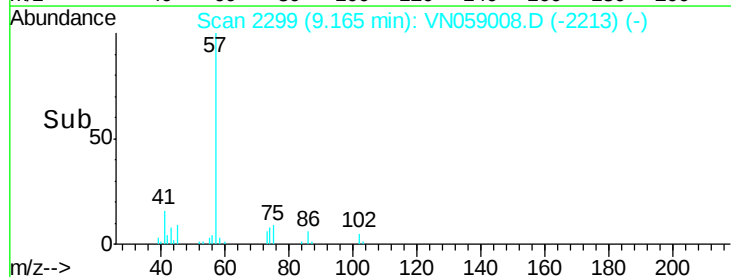
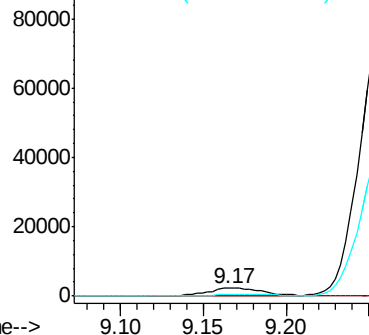
39 0.0 47.8 71.8#

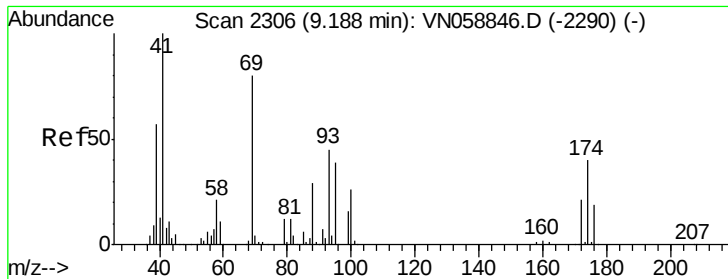


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 0.359 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.07 min

Lab File: VN059008.D

Acq: 29 Oct 2019 14:17

Instrument :
MSVOA_N
ClientSampleId :

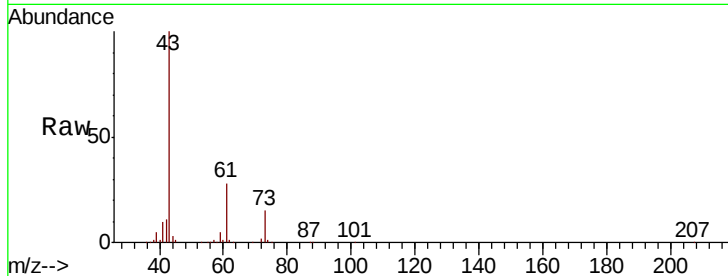
Tot Ion: 88 Resp: 31

Ion Ratio Lower Upper

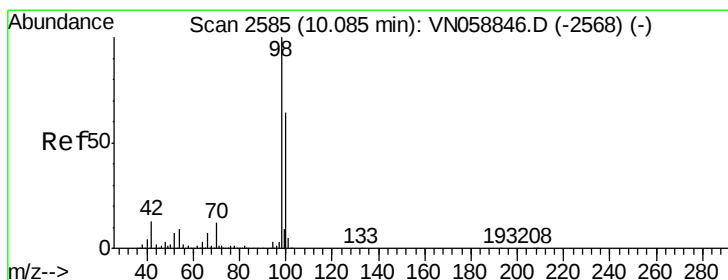
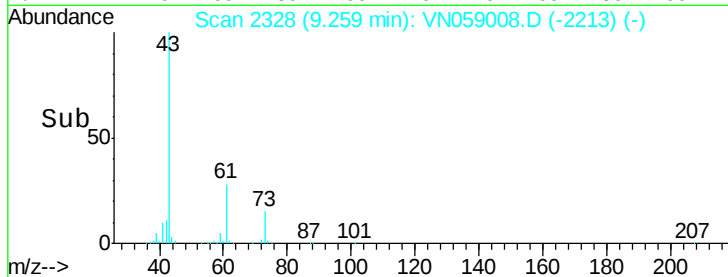
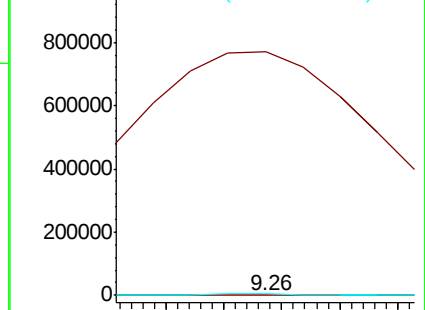
88 100

43 4603345.2 29.1 43.7#

58 21609.7 59.4 89.0#



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



#50

Toluene-d8

Concen: 49.016 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. -0.00 min

Lab File: VN059008.D

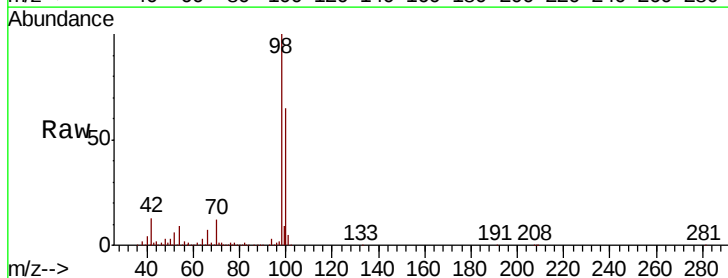
Acq: 29 Oct 2019 14:17

Tgt Ion: 98 Resp: 809832

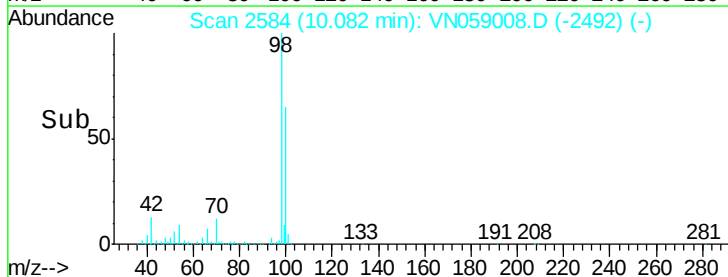
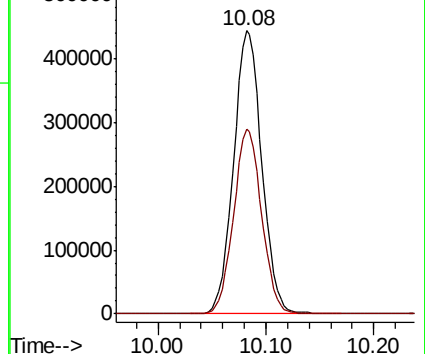
Ion Ratio Lower Upper

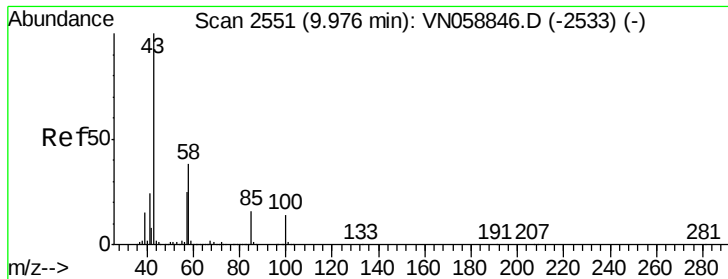
98 100

100 65.0 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

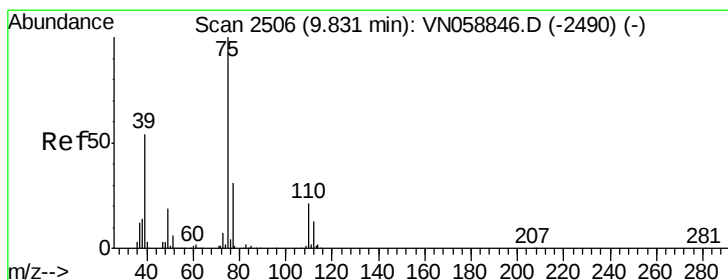
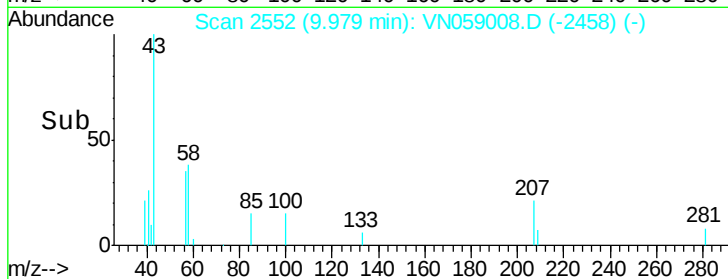
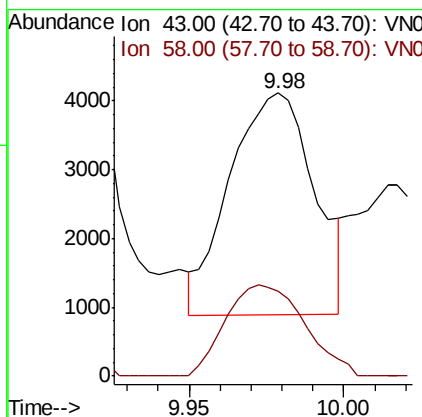
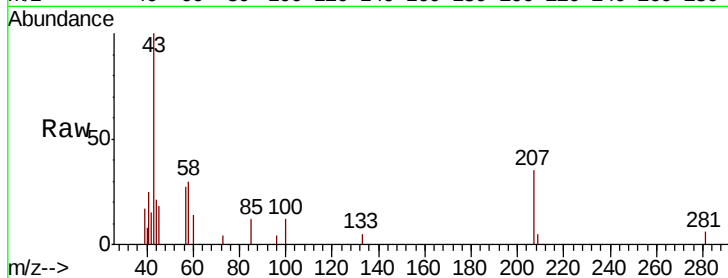




#51
 4-Methyl-2-Pentanone
 Concen: 0.907 ug/l
 RT: 9.98 min Scan# 2552
 Delta R.T. 0.00 min
 Lab File: VN059008.D
 Acq: 29 Oct 2019 14:17

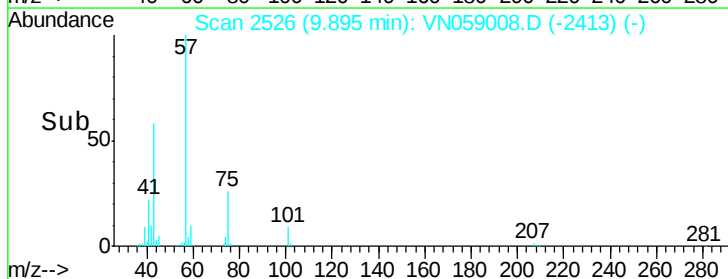
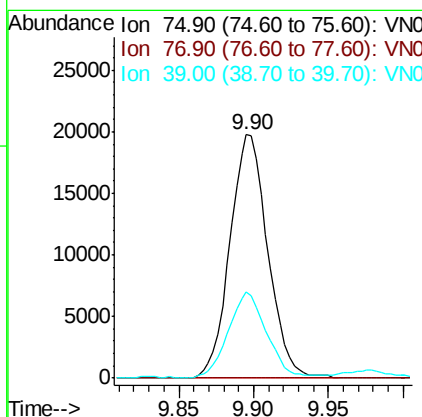
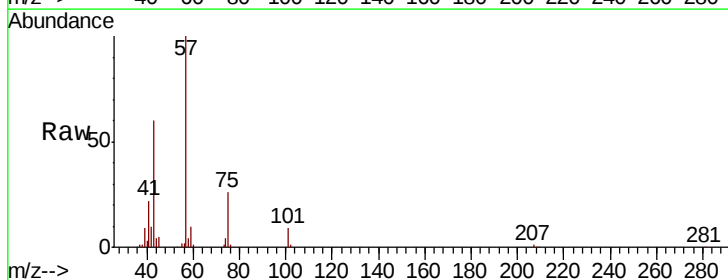
Instrument :
 MSVOA_N
 ClientSampled :

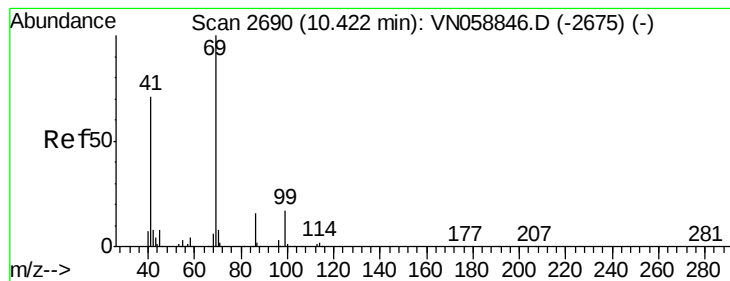
Tot Ion: 43 Resp: 6134
 Ion Ratio Lower Upper
 43 100
 58 38.6 29.9 44.9



#54
 cis-1,3-Dichloropropene
 Concen: 4.232 ug/l
 RT: 9.90 min Scan# 2526
 Delta R.T. 0.06 min
 Lab File: VN059008.D
 Acq: 29 Oct 2019 14:17

Tgt Ion: 75 Resp: 34802
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.7 37.1#
 39 35.2 43.5 65.3#





#56

Ethyl methacrylate

Concen: 2.301 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN059008.D

Acq: 29 Oct 2019 14:17

Instrument :

MSVOA_N

ClientSampleId :

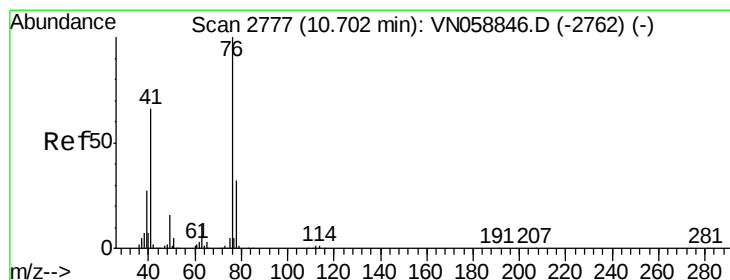
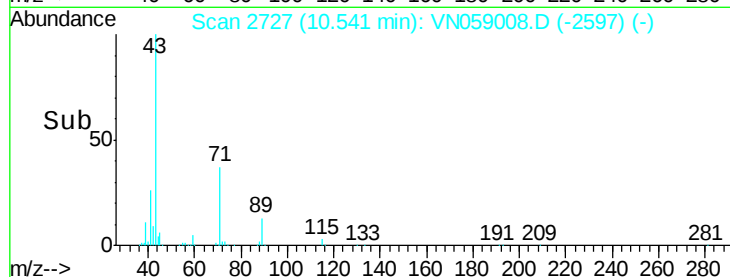
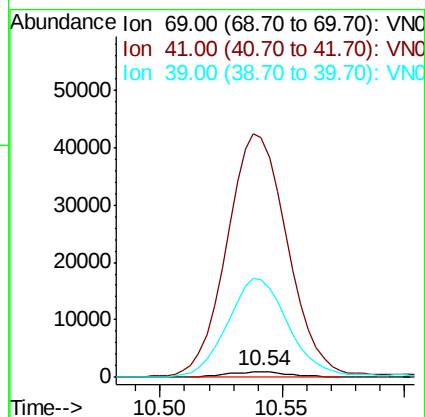
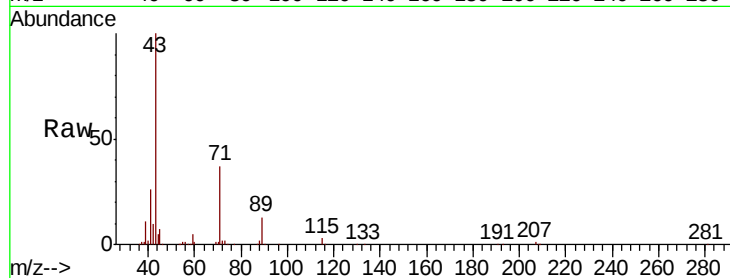
Tot Ion: 69 Resp: 1693

Ion Ratio Lower Upper

69 100

41 4317.0 57.2 85.8#

39 1784.8 31.0 46.4#



#57

1,3-Dichloropropane

Concen: 0.529 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.05 min

Lab File: VN059008.D

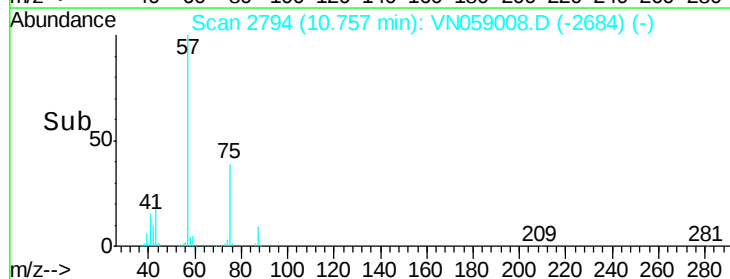
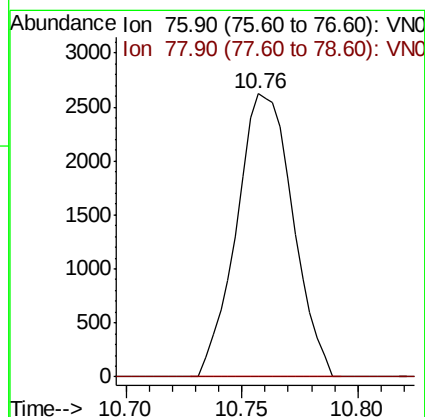
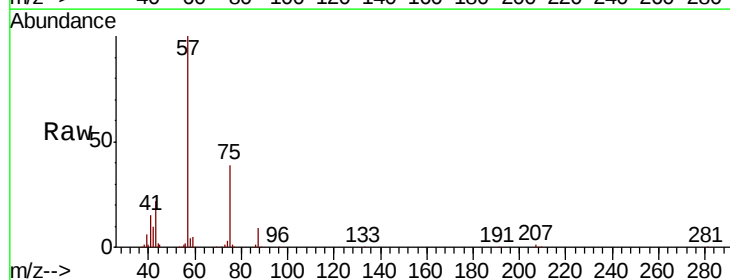
Acq: 29 Oct 2019 14:17

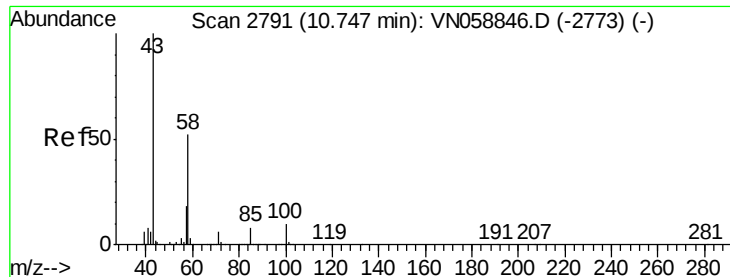
Tgt Ion: 76 Resp: 4414

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.0#

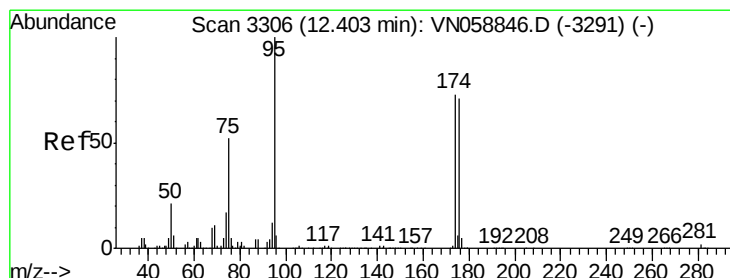
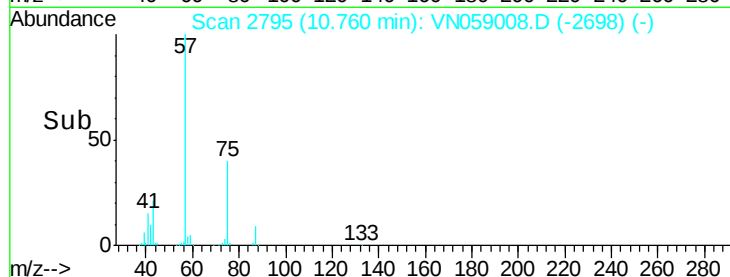
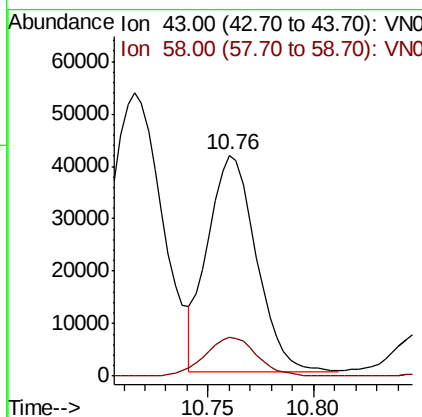
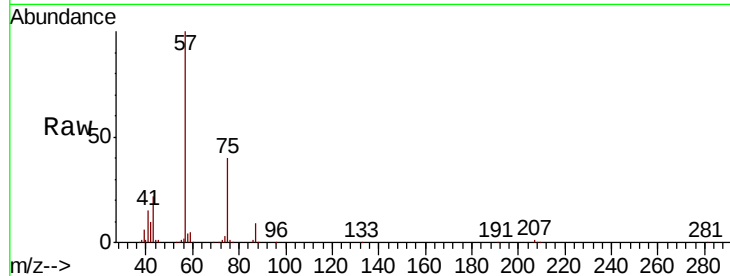




#59
2-Hexanone
Concen: 12.610 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN059008.D
Acq: 29 Oct 2019 14:17

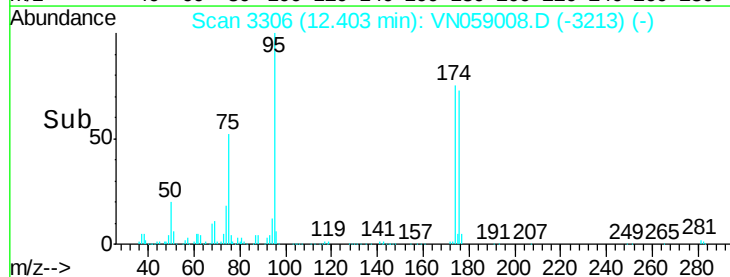
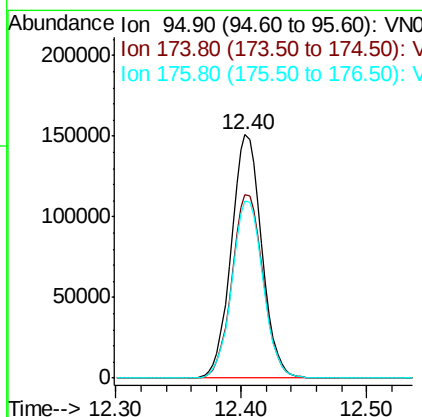
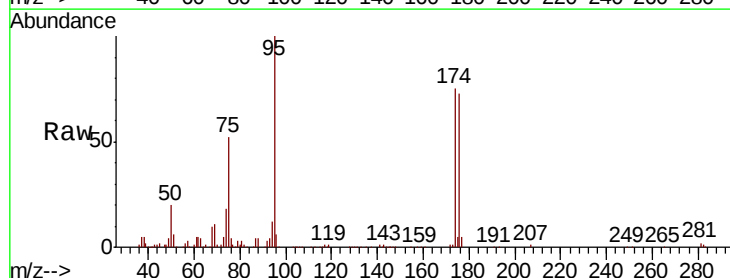
Instrument :
MSVOA_N
ClientSampled :

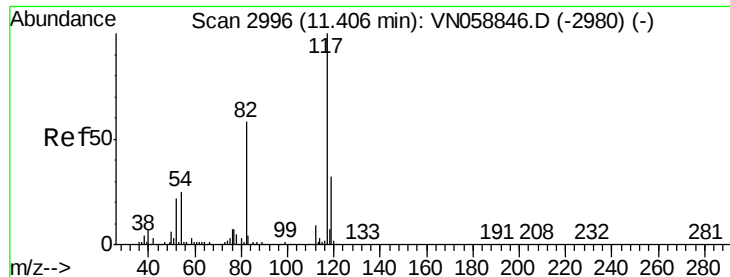
Tot Ion: 43 Resp: 65915
Ion Ratio Lower Upper
43 100
58 19.3 25.9 77.7#



#62
4-Bromofluorobenzene
Concen: 41.933 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN059008.D
Acq: 29 Oct 2019 14:17

Tgt Ion: 95 Resp: 254415
Ion Ratio Lower Upper
95 100
174 77.1 0.0 147.6
176 74.6 0.0 143.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN059008.D

Acq: 29 Oct 2019 14:17

Instrument :

MSVOA_N

ClientSampleId :

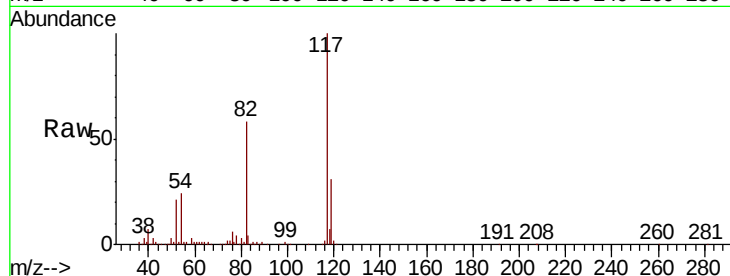
Tot Ion:117 Resp: 577251

Ion Ratio Lower Upper

117 100

82 58.2 46.6 69.8

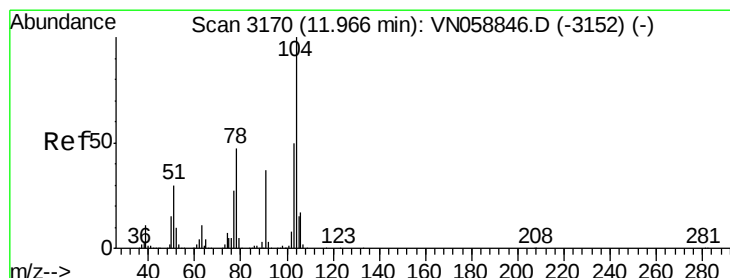
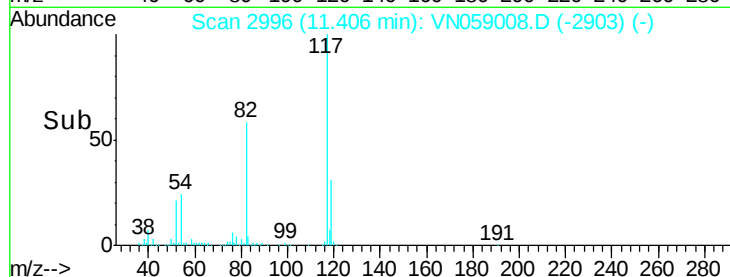
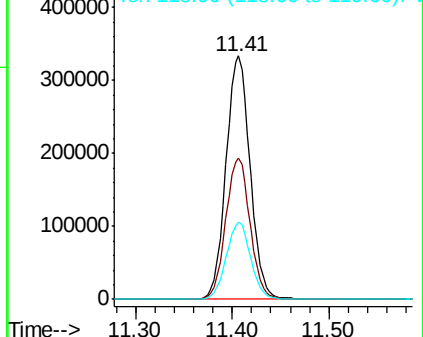
119 31.5 25.6 38.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): V



#70

Styrene

Concen: 1.718 ug/l

RT: 11.96 min Scan# 3168

Delta R.T. -0.01 min

Lab File: VN059008.D

Acq: 29 Oct 2019 14:17

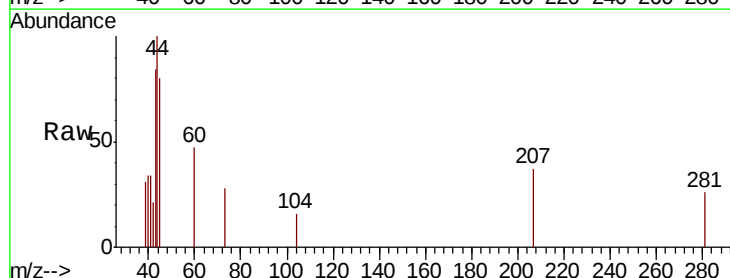
Tgt Ion:104 Resp: 60

Ion Ratio Lower Upper

104 100

78 0.0 42.8 64.2#

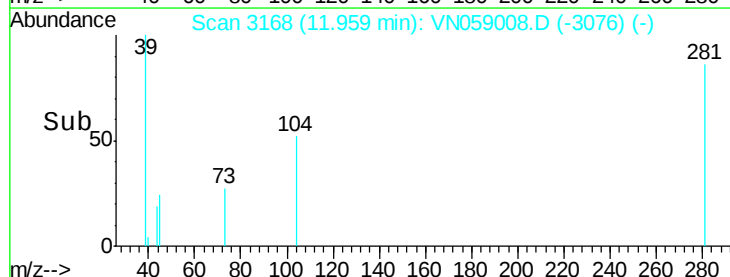
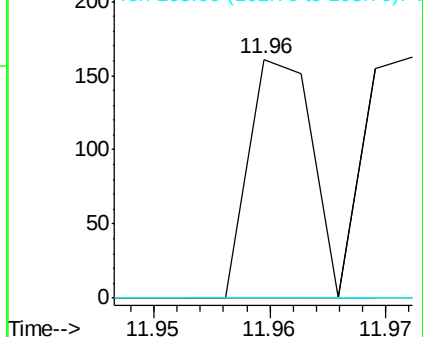
103 0.0 44.3 66.5#

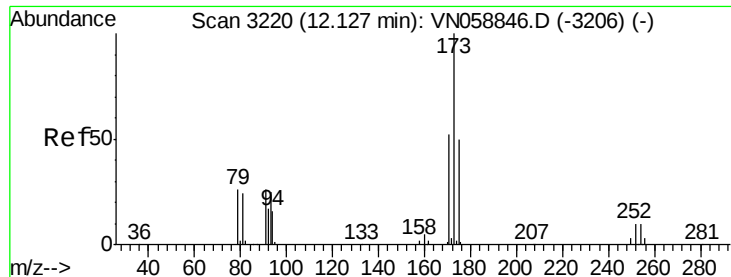


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN0

Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 0.445 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN059008.D

Acq: 29 Oct 2019 14:17

Instrument :

MSVOA_N

ClientSampled :

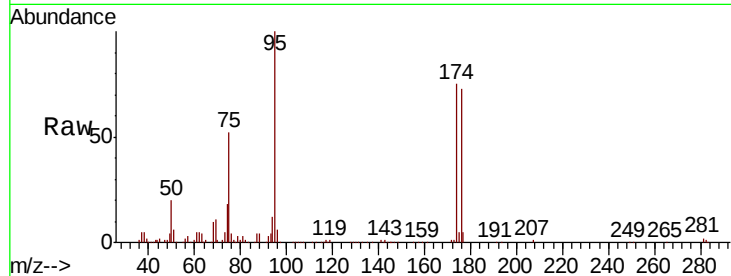
Tot Ion:173 Resp: 1530

Ion Ratio Lower Upper

173 100

175 746.7 24.7 74.1#

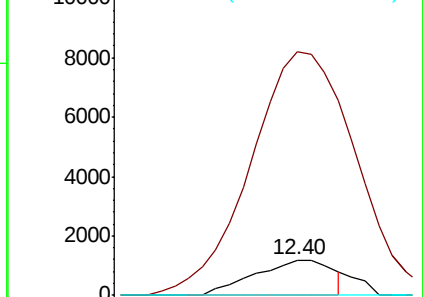
254 0.0 0.0 0.0



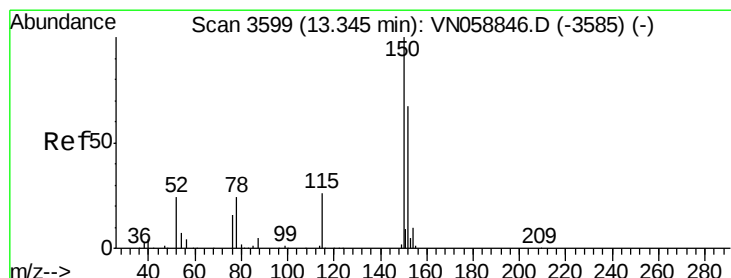
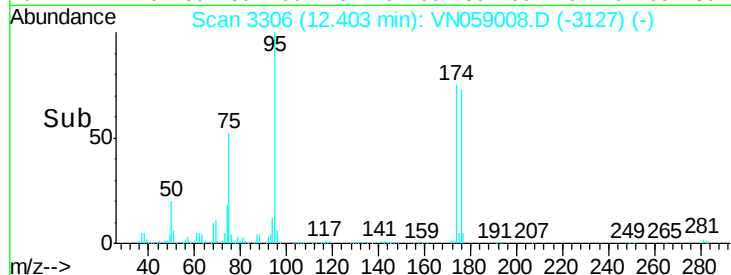
Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



Time--> 12.36 12.38 12.40 12.42



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN059008.D

Acq: 29 Oct 2019 14:17

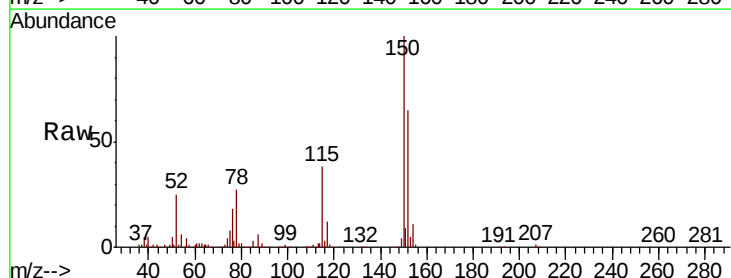
Tgt Ion:152 Resp: 210096

Ion Ratio Lower Upper

152 100

115 59.2 30.5 91.5

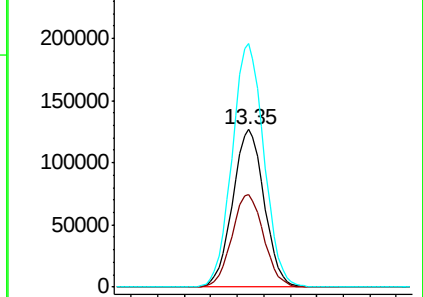
150 155.9 0.0 344.4



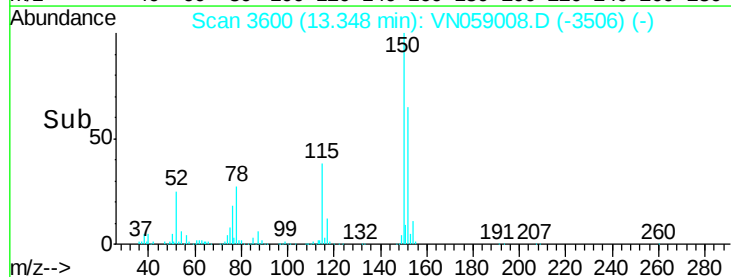
Abundance Ion 151.90 (151.60 to 152.60): V

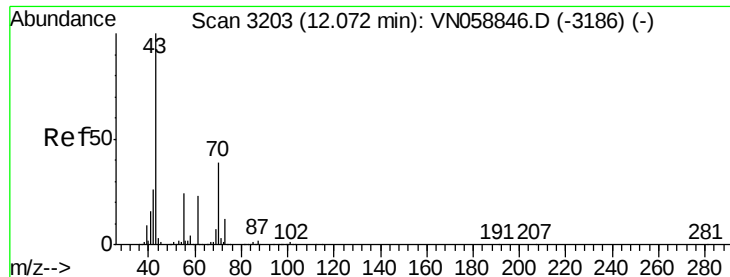
Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



Time--> 13.30 13.40





#74

N-amvl acetate

Concen: 0.407 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VN059008.D

Acq: 29 Oct 2019 14:17

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 2831

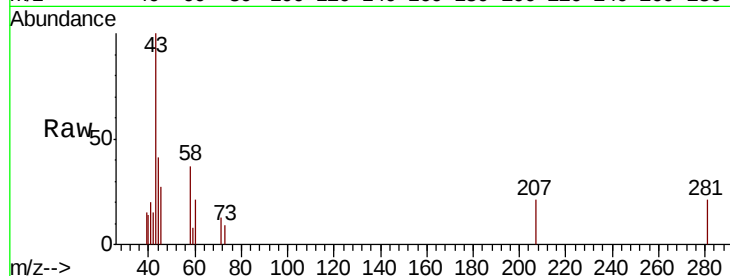
Ion Ratio Lower Upper

43 100

70 0.0 30.9 46.3#

55 0.0 19.7 29.5#

61 0.0 18.2 27.4#

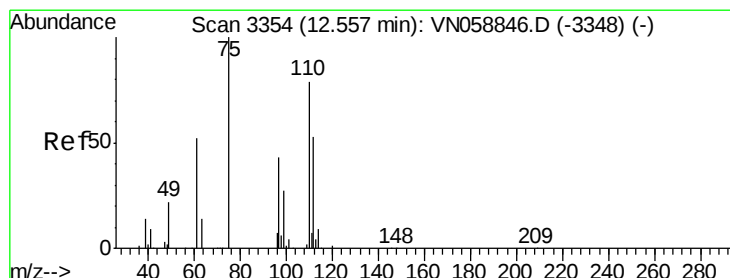
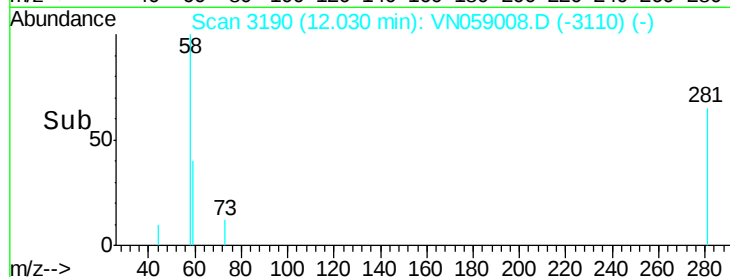
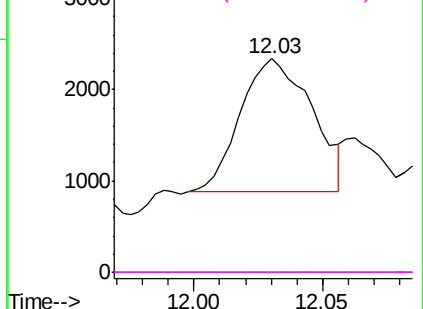


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 27.180 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN059008.D

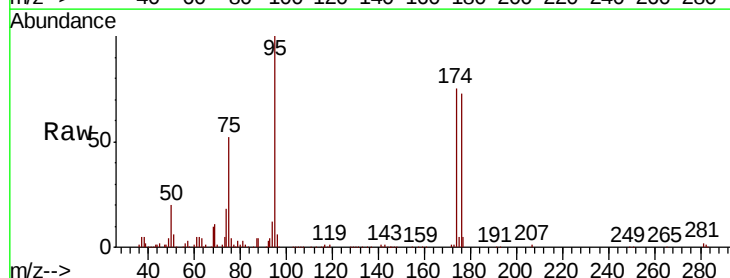
Acq: 29 Oct 2019 14:17

Tgt Ion: 75 Resp: 132346

Ion Ratio Lower Upper

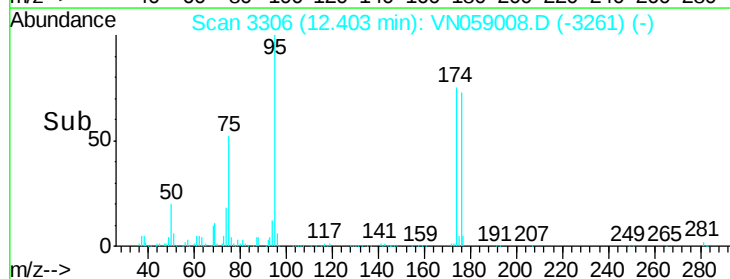
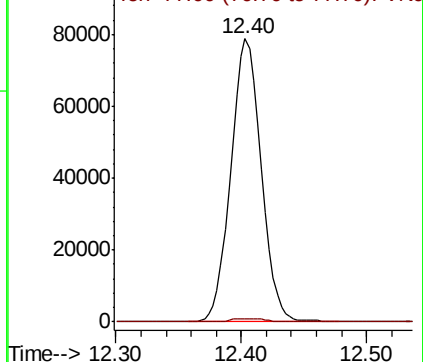
75 100

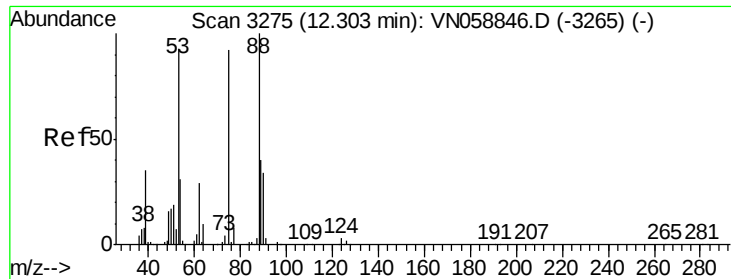
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

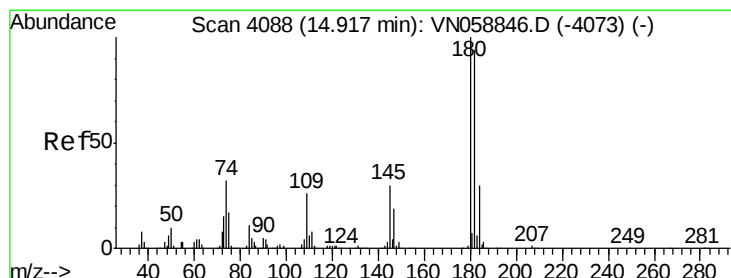
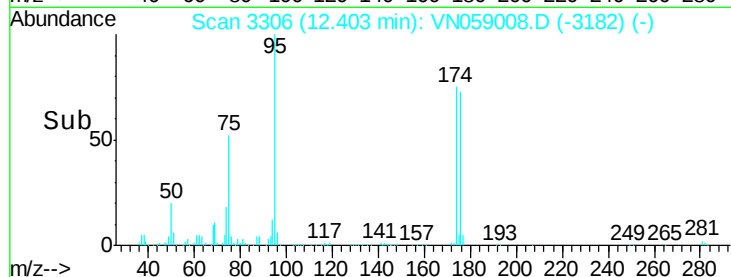
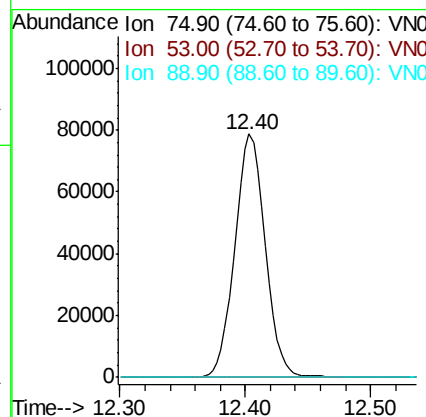
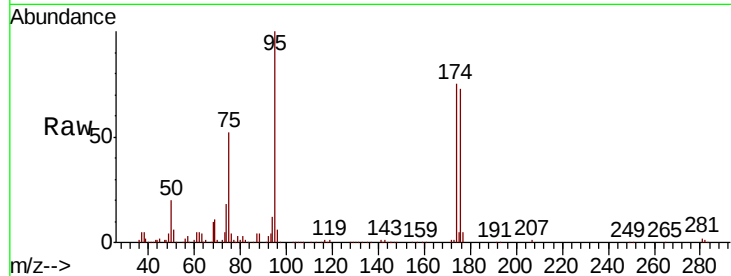




#81
trans-1,4-Dichloro-2-butene
Concen: 70.807 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN059008.D
Acq: 29 Oct 2019 14:17

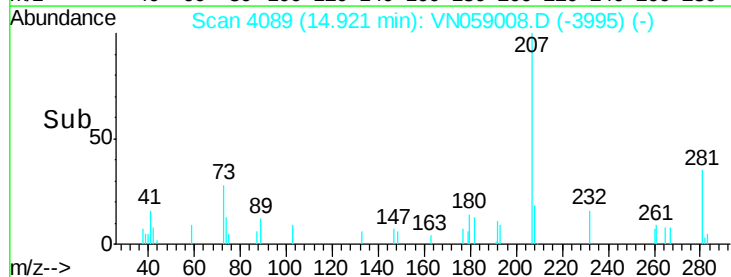
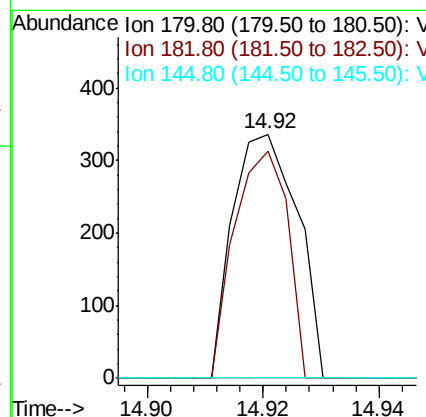
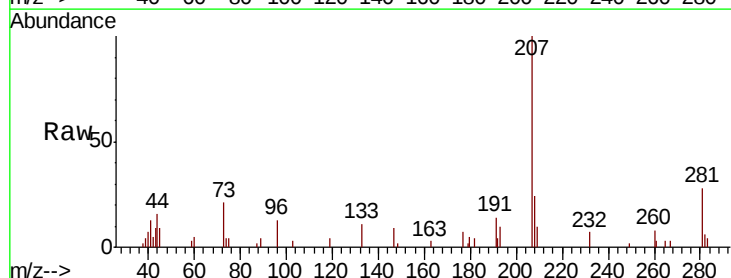
Instrument :
MSVOA_N
ClientSampled :

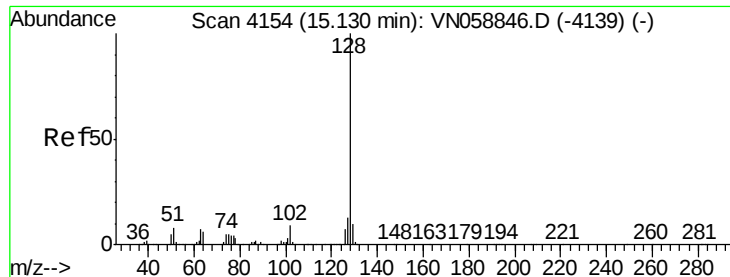
Tot Ion: 75 Resp: 132346
Ion Ratio Lower Upper
75 100
53 0.0 78.6 118.0#
89 0.0 35.4 53.0#



#93
1,2,4-Trichlorobenzene
Concen: 2.580 ug/l
RT: 14.92 min Scan# 4089
Delta R.T. 0.00 min
Lab File: VN059008.D
Acq: 29 Oct 2019 14:17

Tgt Ion: 180 Resp: 260
Ion Ratio Lower Upper
180 100
182 76.2 47.3 142.0
145 0.0 15.3 45.8#





#95

Naphthalene

Concen: 2.305 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN059008.D

Acq: 29 Oct 2019 14:17

Instrument :

MSVOA_N

ClientSampleId :

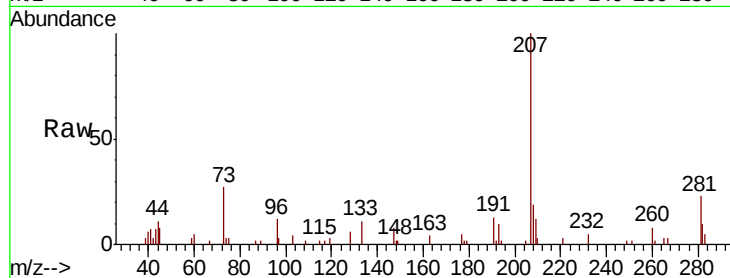
Tot Ion:128 Resp: 1001

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

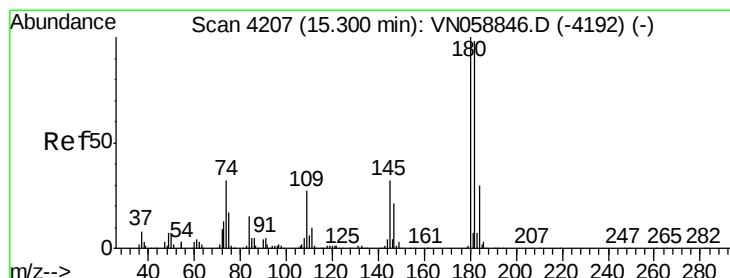
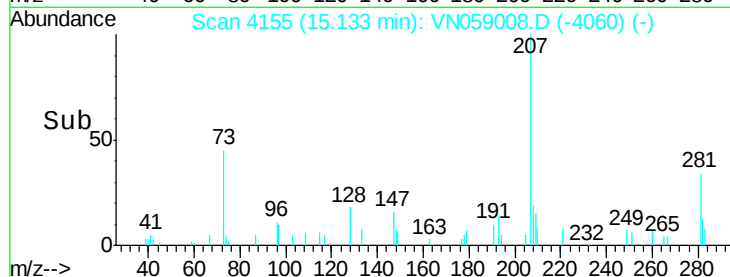
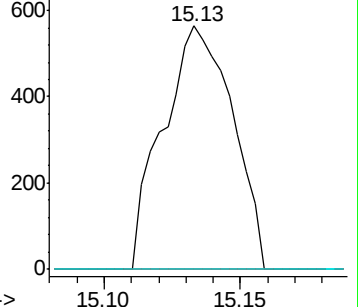
129 0.0 8.4 12.6#



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: 2.480 ug/l

RT: 15.30 min Scan# 4208

Delta R.T. 0.00 min

Lab File: VN059008.D

Acq: 29 Oct 2019 14:17

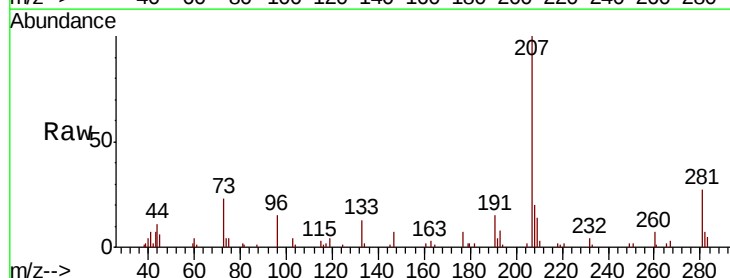
Tgt Ion:180 Resp: 366

Ion Ratio Lower Upper

180 100

182 19.1 47.9 143.7#

145 16.1 15.9 47.7



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

