

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032619\
 Data File : VN054699.D
 Acq On : 26 Mar 2019 15:25
 Operator : JC/SP
 Sample : K2081-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 27 04:08:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	543784	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	874890	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	747675	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	278741	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	350274	51.79	ug/l	0.00
Spiked Amount			Recovery	=	103.58%	
35) Dibromofluoromethane	7.59	113	269164	47.75	ug/l	0.00
Spiked Amount			Recovery	=	95.50%	
50) Toluene-d8	10.09	98	1053318	49.71	ug/l	0.00
Spiked Amount			Recovery	=	99.42%	
62) 4-Bromofluorobenzene	12.40	95	329825	45.74	ug/l	0.00
Spiked Amount			Recovery	=	91.48%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	187	0.331	ug/l #	82
16) Acetone	3.82	43	11457	5.634	ug/l	93
18) Methyl Acetate	4.33	43	2810	0.620	ug/l #	78
20) Methylene Chloride	4.55	84	17878	2.982	ug/l #	90
25) 2-Butanone	6.85	43	678	0.260	ug/l #	46
29) Tetrahydrofuran	7.23	42	1003	0.593	ug/l #	68
31) Cyclohexane	7.66	56	11352	Below Cal	#	22
36) 1,1-Dichloropropene	7.66	75	40188	4.913	ug/l #	49
38) Carbon Tetrachloride	7.66	117	50292	6.327	ug/l #	15
43) Isopropyl Acetate	8.17	43	13665	1.391	ug/l #	95
45) 1,2-Dichloropropane	9.27	63	1639	0.261	ug/l #	43
48) Methyl methacrylate	9.18	41	6896	1.293	ug/l #	11
49) 1,4-Dioxane	9.25	88	30	0.503	ug/l #	27
51) 4-Methyl-2-Pentanone	9.99	43	5221	0.959	ug/l	94
53) t-1,3-Dichloropropene	10.09	75	267	2.263	ug/l #	29
54) cis-1,3-Dichloropropene	9.90	75	49875	5.593	ug/l #	70
57) 1,3-Dichloropropane	10.76	76	9396	1.045	ug/l #	43
59) 2-Hexanone	10.76	43	160474	45.115	ug/l #	47
71) Bromoform	12.39	173	879	2.444	ug/l #	28
74) N-amyl acetate	11.88	43	16011	2.479	ug/l #	50
76) 1,2,3-Trichloropropane	12.40	75	173060	39.126	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	173060	129.495	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN054699.D

Acq: 26 Mar 2019 15:25

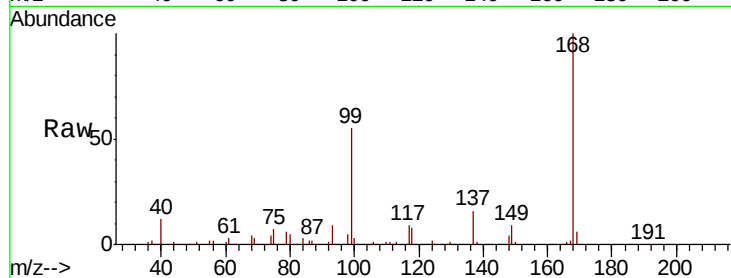
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 543784

Ion Ratio Lower Upper

168 100

99 55.0 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

150000

100000

50000

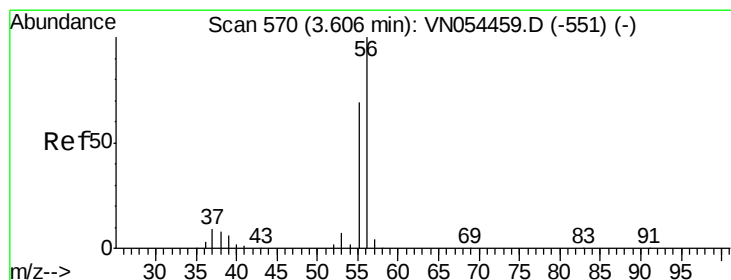
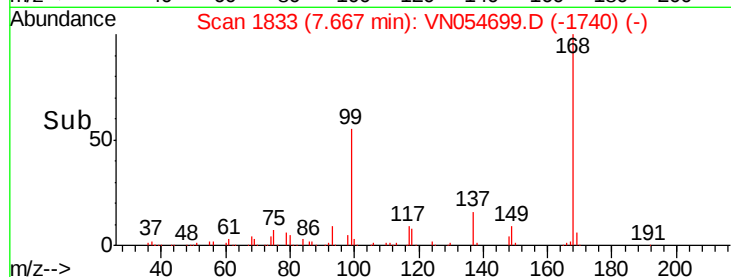
0

Time-->

7.60

7.70

7.80



#13

Acrolein

Concen: 0.331 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN054699.D

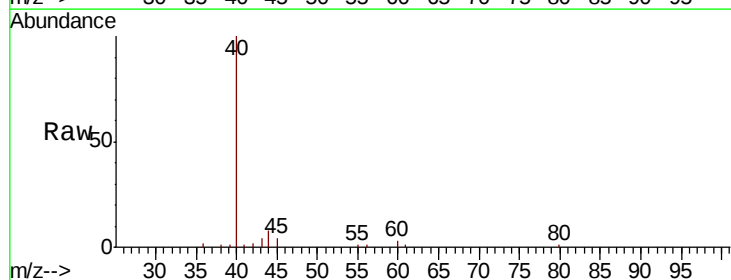
Acq: 26 Mar 2019 15:25

Tgt Ion: 56 Resp: 187

Ion Ratio Lower Upper

56 100

55 55.6 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 55.00 (54.70 to 55.70): VN

3.61

250

200

150

100

50

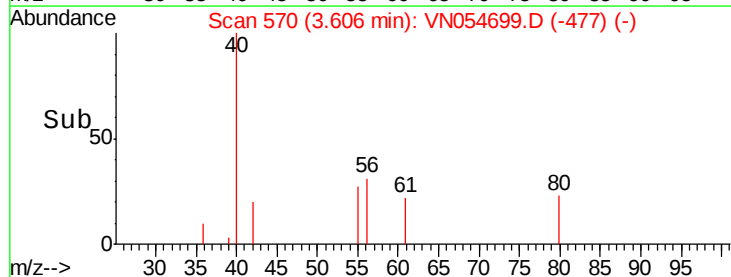
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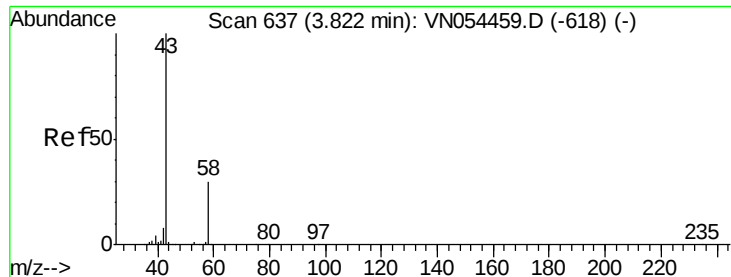
Time-->

3.59

3.60

3.61





#16

Acetone

Concen: 5.634 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN054699.D

Acq: 26 Mar 2019 15:25

Instrument :

MSVOA_N

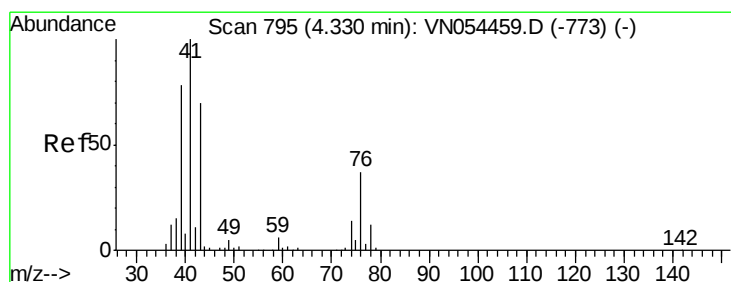
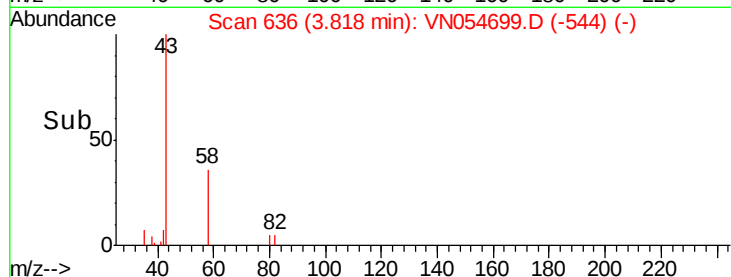
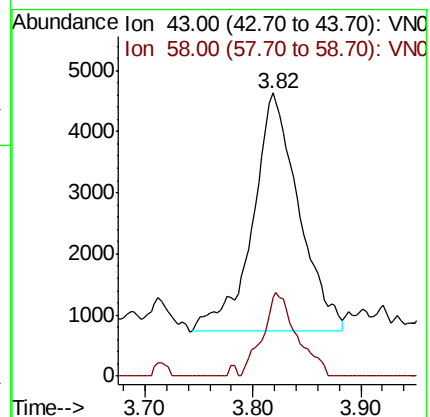
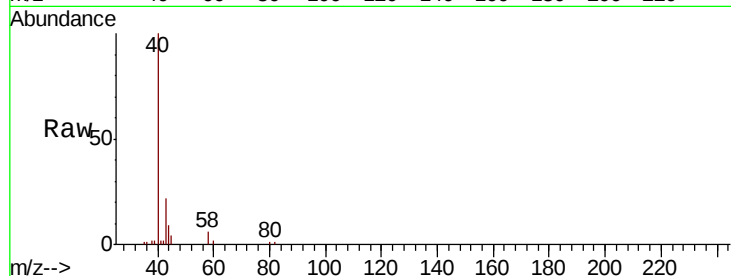
ClientSampled :

Tot Ion: 43 Resp: 11457

Ion Ratio Lower Upper

43 100

58 32.9 29.9 44.9



#18

Methyl Acetate

Concen: 0.620 ug/l

RT: 4.33 min Scan# 795

Delta R.T. -0.00 min

Lab File: VN054699.D

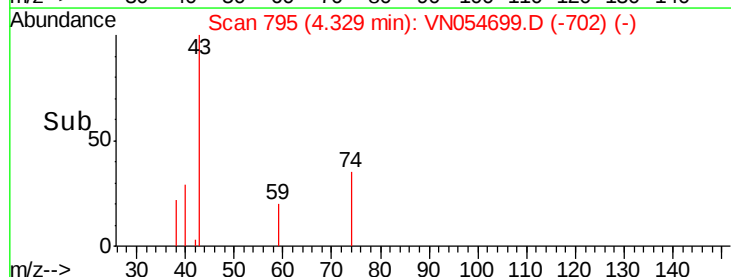
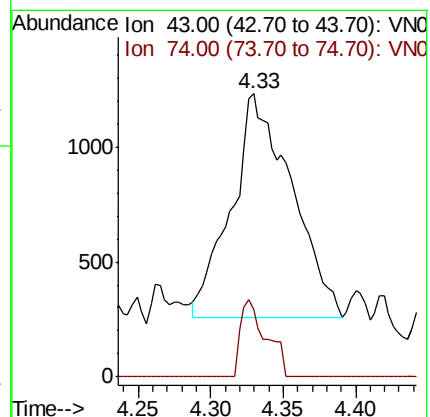
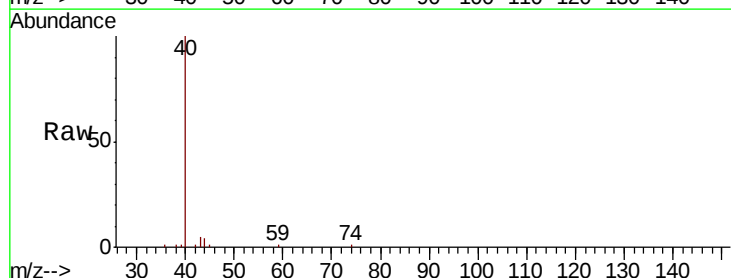
Acq: 26 Mar 2019 15:25

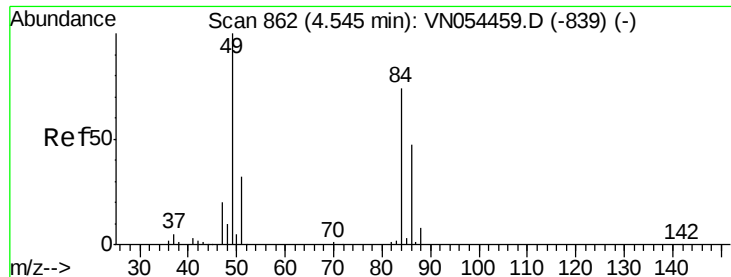
Tgt Ion: 43 Resp: 2810

Ion Ratio Lower Upper

43 100

74 14.7 20.8 31.2#

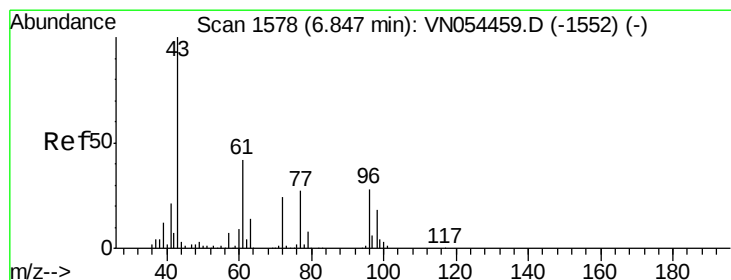
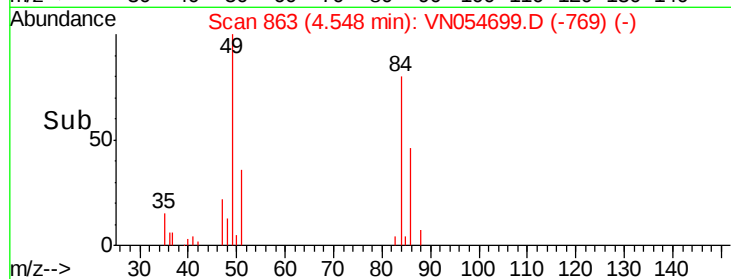
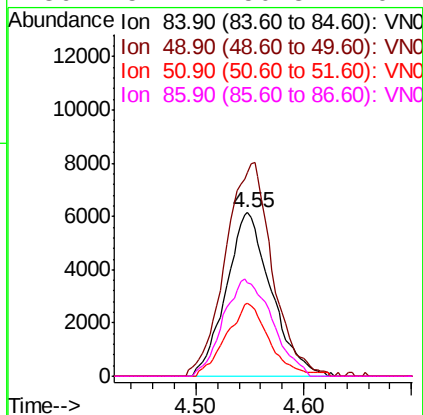
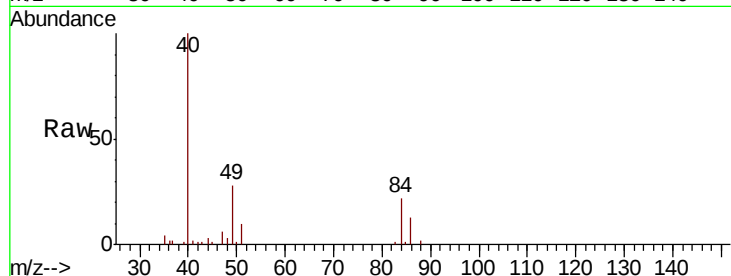




#20
Methvlene Chloride
Concen: 2.982 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054699.D
Acq: 26 Mar 2019 15:25

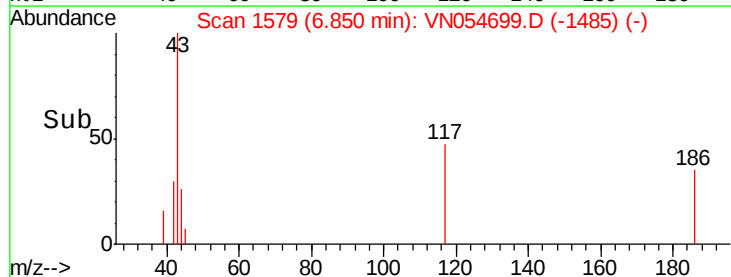
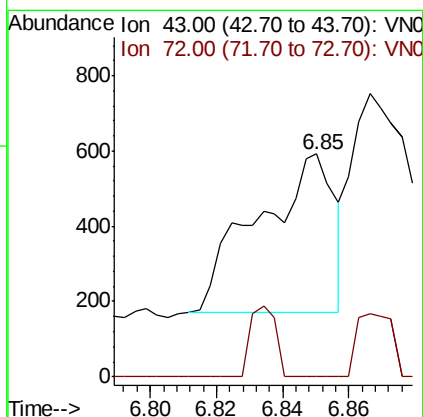
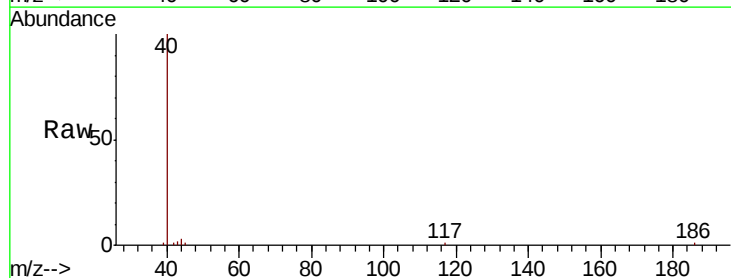
Instrument :
MSVOA_N
ClientSampled :

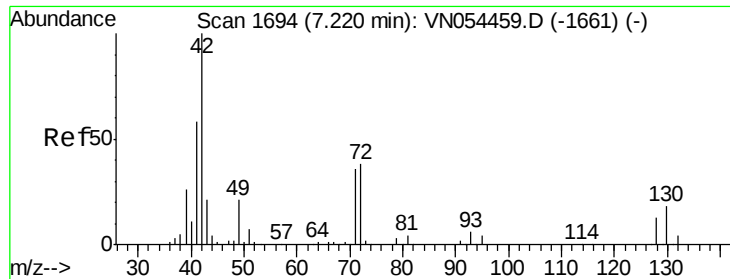
Tot Ion: 84 Resp: 17878
Ion Ratio Lower Upper
84 100
49 122.0 89.7 134.5
51 44.6 28.2 42.4#
86 57.4 50.8 76.2



#25
2-Butanone
Concen: 0.260 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.00 min
Lab File: VN054699.D
Acq: 26 Mar 2019 15:25

Tgt Ion: 43 Resp: 678
Ion Ratio Lower Upper
43 100
72 0.0 23.0 34.6#

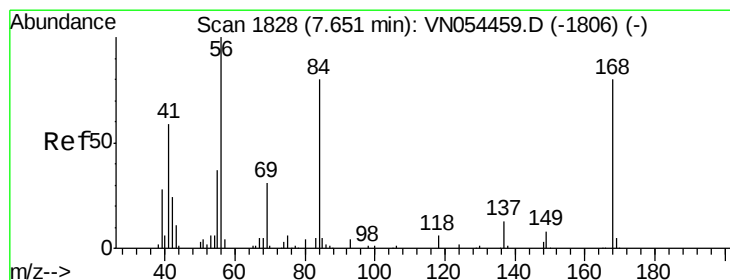
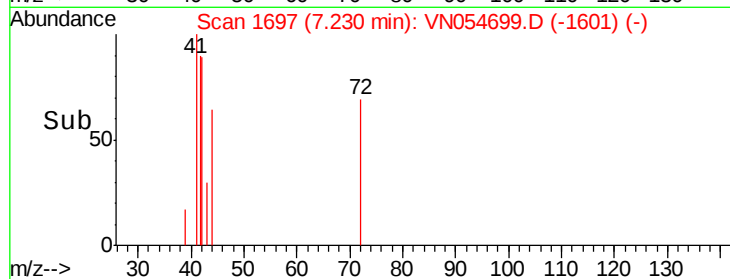
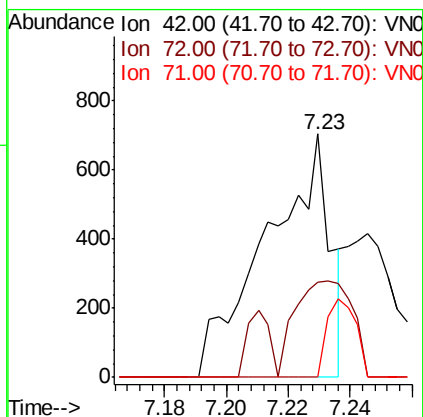
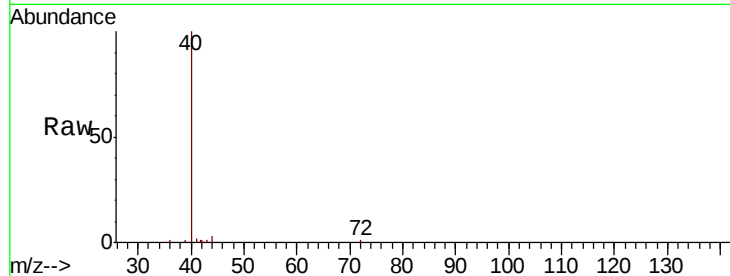




#29
Tetrahydrofuran
Concen: 0.593 ug/l
RT: 7.23 min Scan# 1697
Delta R.T. 0.01 min
Lab File: VN054699.D
Acq: 26 Mar 2019 15:25

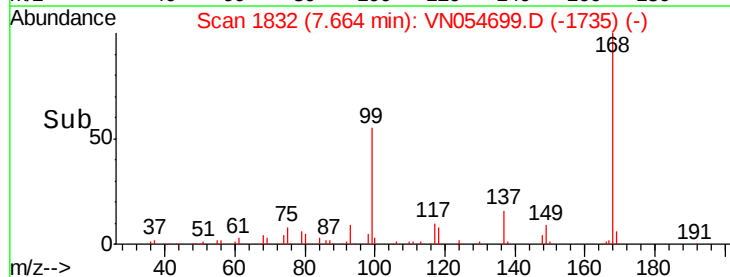
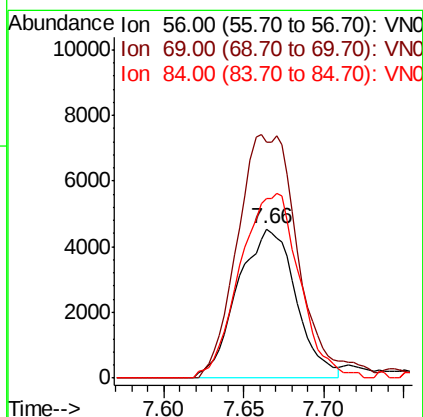
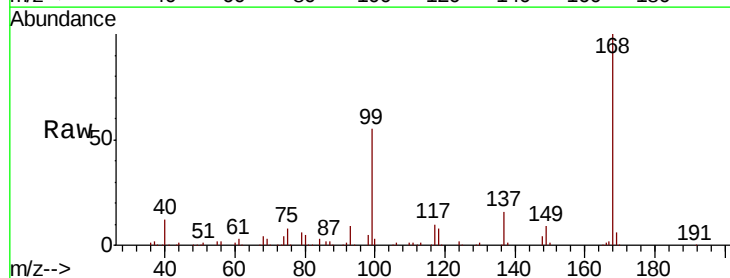
Instrument :
MSVOA_N
ClientSampled :

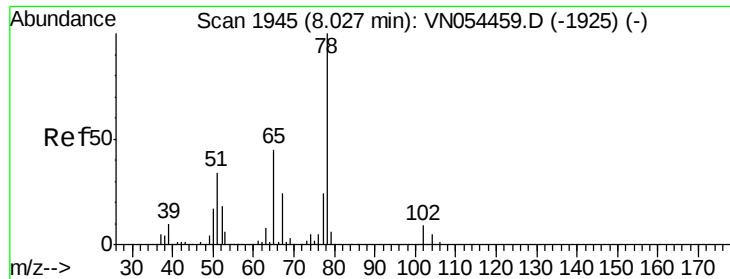
Tot Ion: 42 Resp: 1003
Ion Ratio Lower Upper
42 100
72 35.6 37.8 56.6#
71 14.6 36.2 54.2#



#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN054699.D
Acq: 26 Mar 2019 15:25

Tgt Ion: 56 Resp: 11352
Ion Ratio Lower Upper
56 100
69 158.2 27.8 41.6#
84 120.3 74.6 111.8#





#33

1,2-Dichloroethane-d4

Concen: 51.787 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN054699.D

Acq: 26 Mar 2019 15:25

Instrument :

MSVOA_N

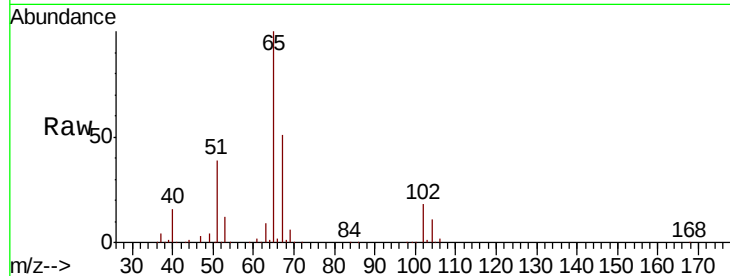
ClientSampleId :

Tot Ion: 65 Resp: 350274

Ion Ratio Lower Upper

65 100

67 51.9 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.03

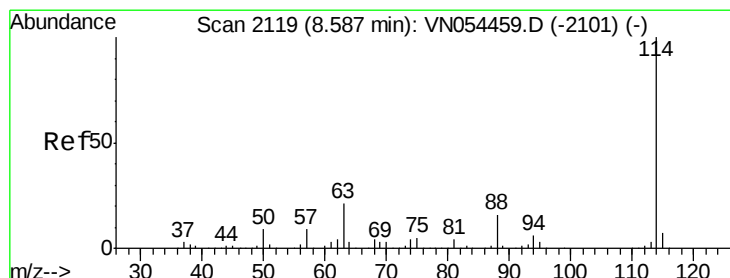
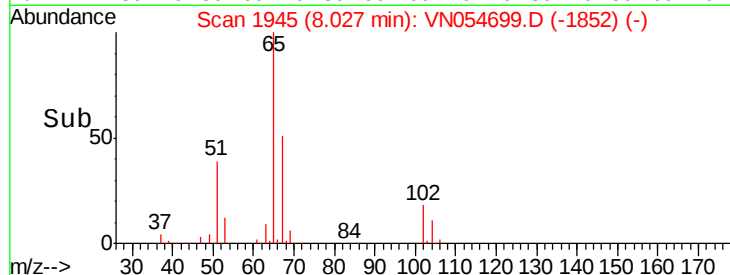
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN054699.D

Acq: 26 Mar 2019 15:25

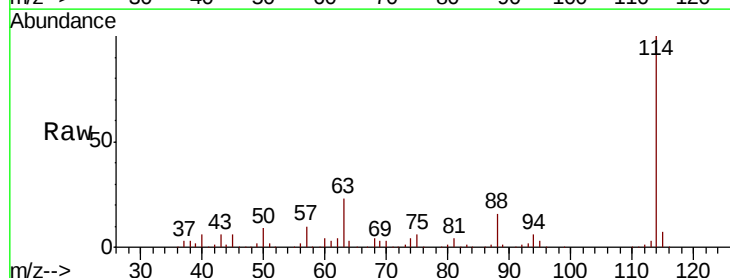
Tgt Ion: 114 Resp: 874890

Ion Ratio Lower Upper

114 100

63 23.0 0.0 35.2

88 15.8 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

8.59

500000

400000

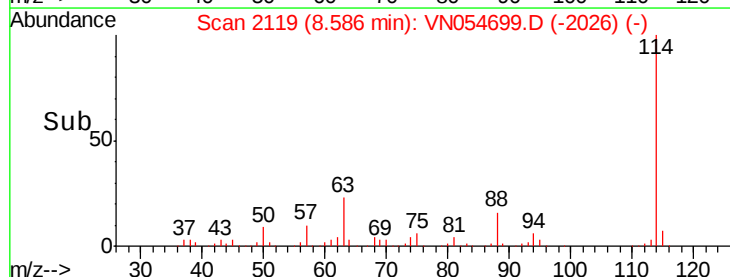
300000

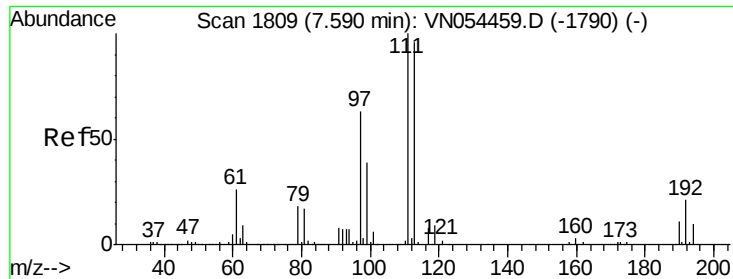
200000

100000

0

Time-->

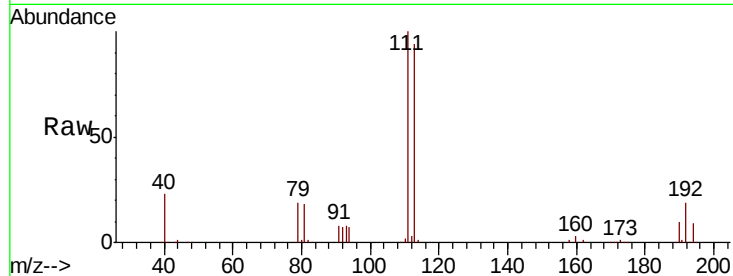




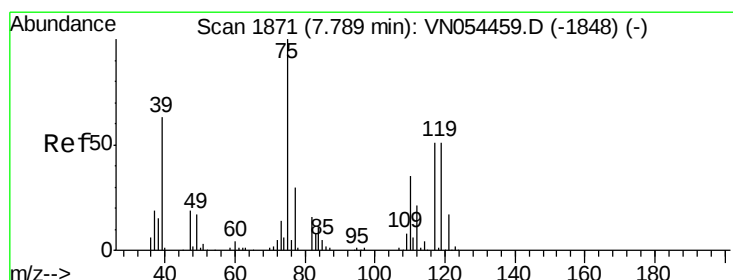
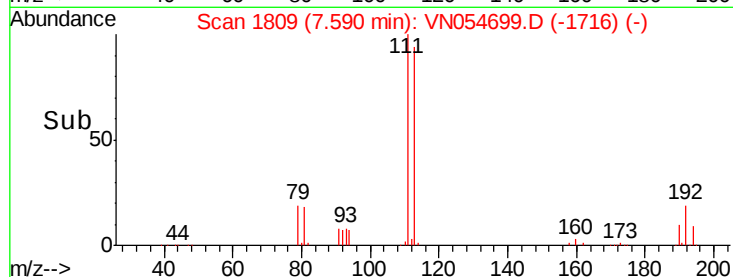
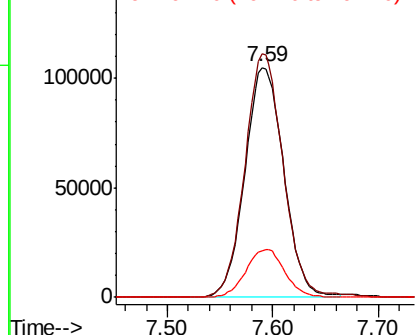
#35
 Dibromofluoromethane
 Concen: 47.754 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN054699.D
 Acq: 26 Mar 2019 15:25

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
113	100		
111	104.6	82.2	123.4
192	20.9	19.2	28.8

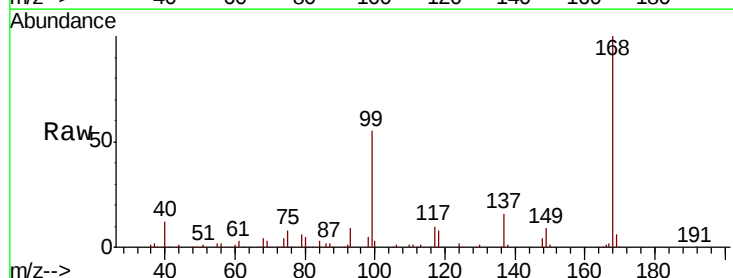


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

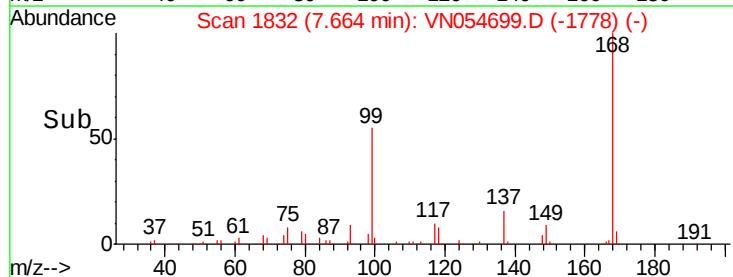
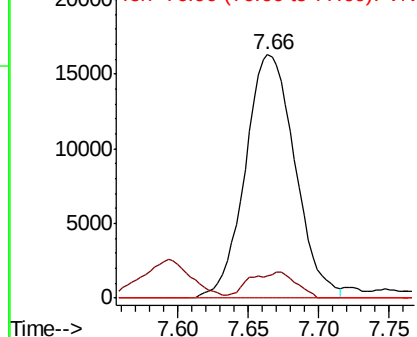


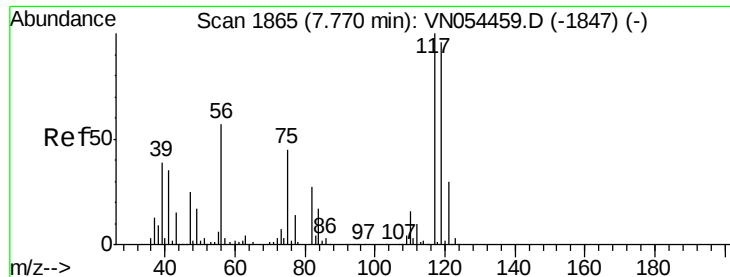
#36
 1,1-Dichloropropene
 Concen: 4.913 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054699.D
 Acq: 26 Mar 2019 15:25

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.0	19.1	57.5#
77	0.0	25.0	37.4#



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

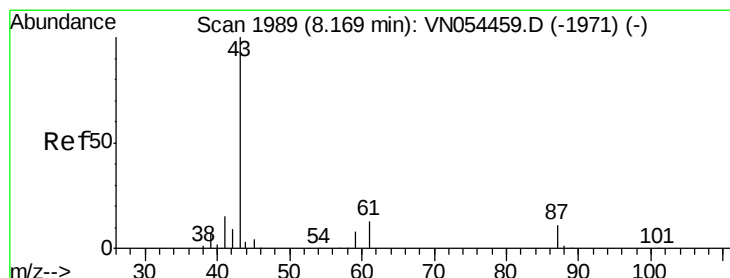
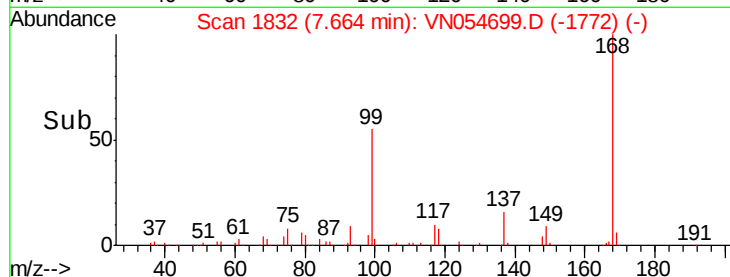
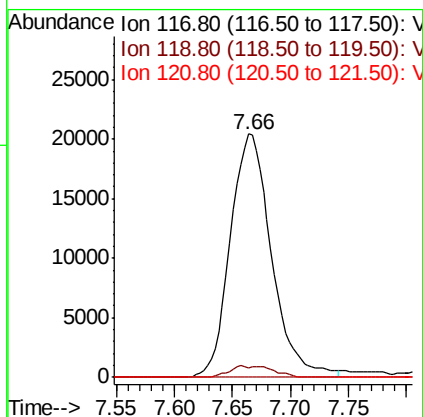
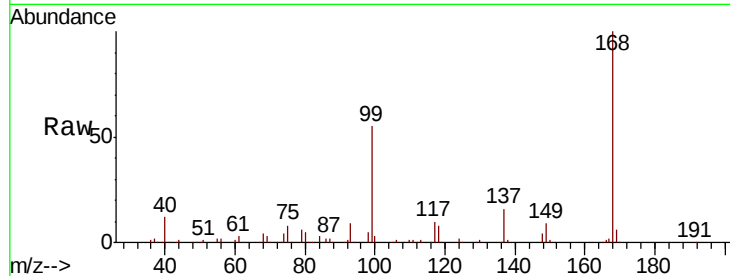




#38
Carbon Tetrachloride
Concen: 6.327 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN054699.D
Acq: 26 Mar 2019 15:25

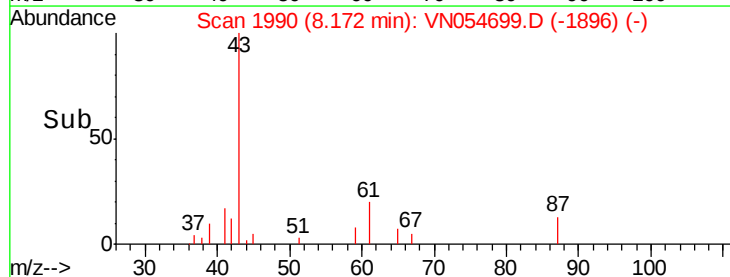
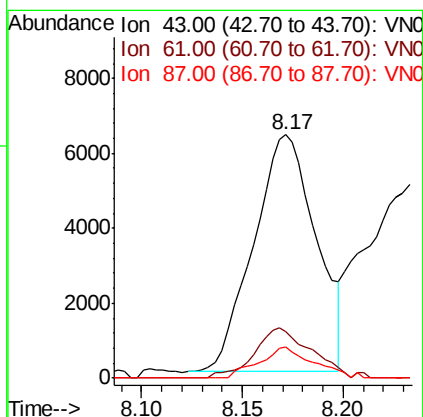
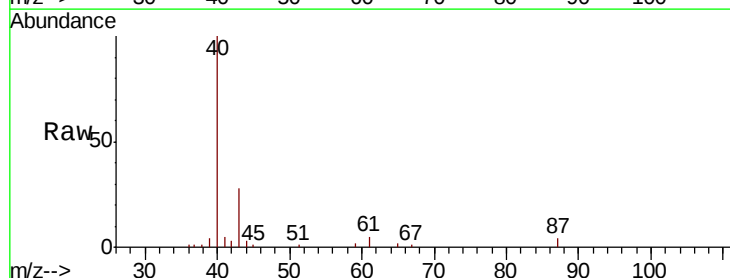
Instrument :
MSVOA_N
ClientSampled :

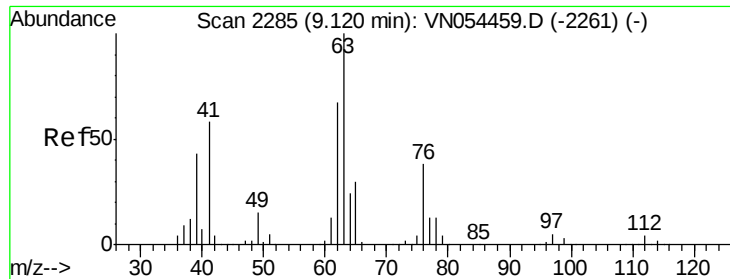
Tot Ion:117 Resp: 50292
Ion Ratio Lower Upper
117 100
119 4.1 76.3 114.5#
121 0.0 24.6 36.8#



#43
Isopropyl Acetate
Concen: 1.391 ug/l
RT: 8.17 min Scan# 1990
Delta R.T. 0.00 min
Lab File: VN054699.D
Acq: 26 Mar 2019 15:25

Tgt Ion: 43 Resp: 13665
Ion Ratio Lower Upper
43 100
61 19.0 15.8 23.8
87 11.3 12.0 18.0#

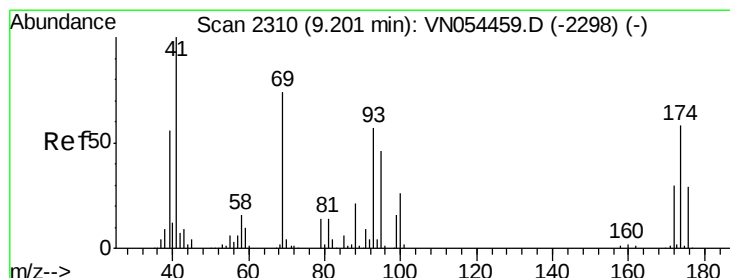
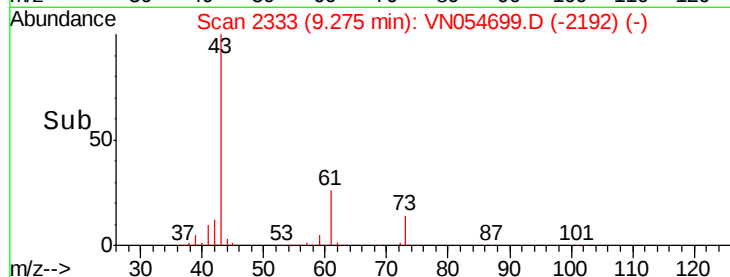
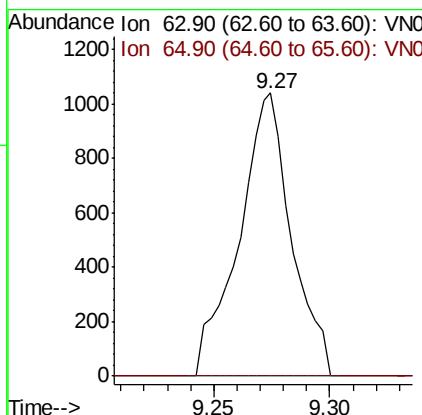
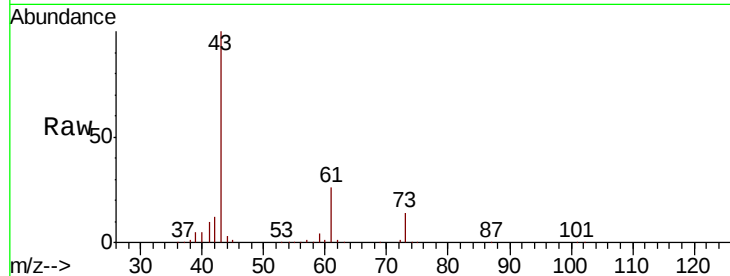




#45
 1,2-Dichloropropane
 Concen: 0.261 ug/l
 RT: 9.27 min Scan# 2333
 Delta R.T. 0.15 min
 Lab File: VN054699.D
 Acq: 26 Mar 2019 15:25

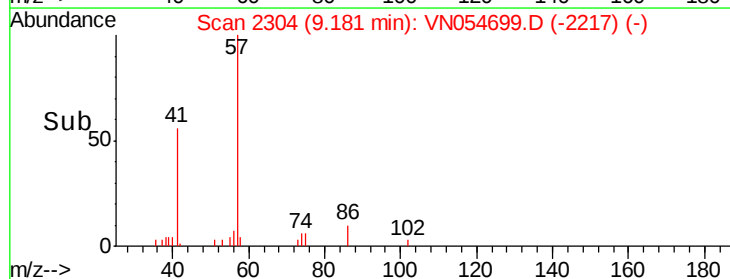
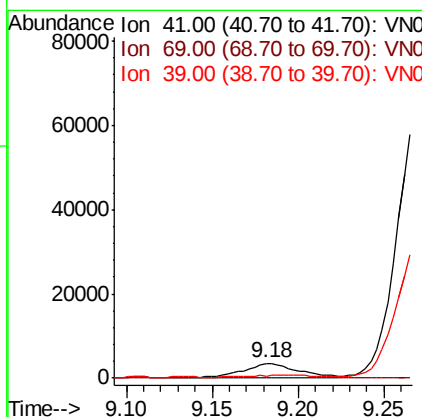
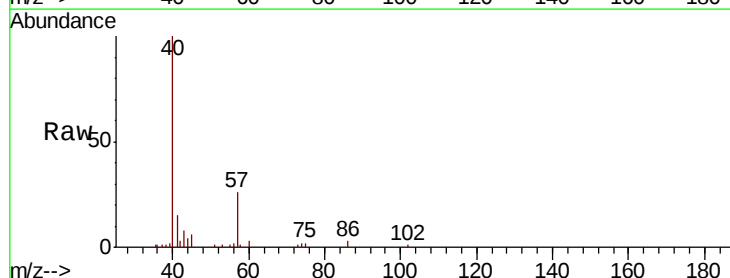
Instrument :
 MSVOA_N
 ClientSampleId :

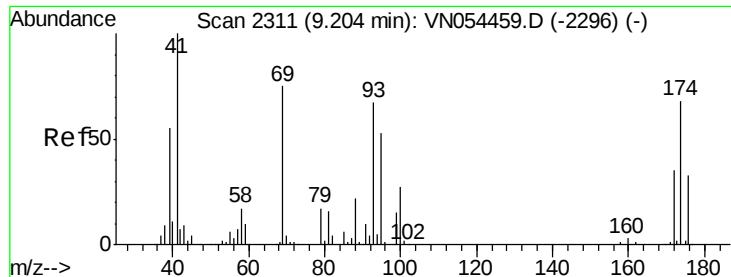
Tot Ion: 63 Resp: 1639
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.6#



#48
 Methyl methacrylate
 Concen: 1.293 ug/l
 RT: 9.18 min Scan# 2304
 Delta R.T. -0.02 min
 Lab File: VN054699.D
 Acq: 26 Mar 2019 15:25

Tgt Ion: 41 Resp: 6896
 Ion Ratio Lower Upper
 41 100
 69 0.0 72.6 108.8#
 39 0.0 47.5 71.3#





#49

1,4-Dioxane

Concen: 0.503 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.05 min

Lab File: VN054699.D

Acq: 26 Mar 2019 15:25

Instrument :
MSVOA_N
ClientSampleId :

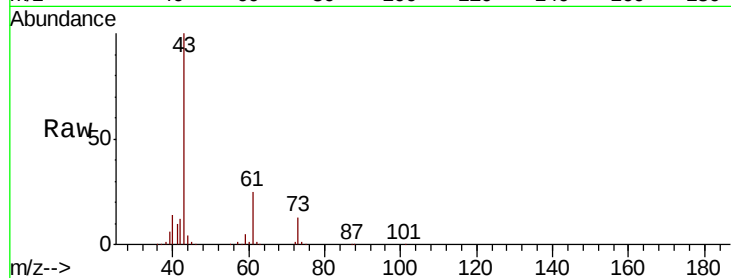
Tot Ion: 88 Resp: 30

Ion Ratio Lower Upper

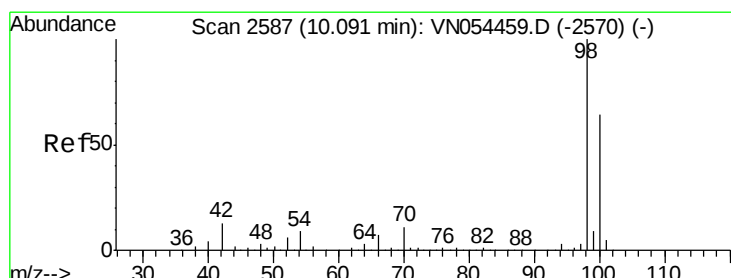
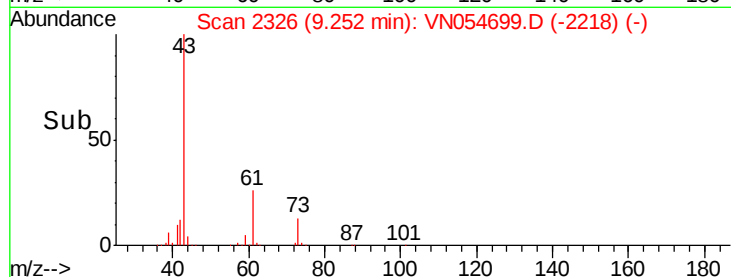
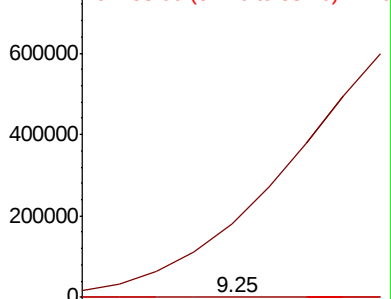
88 100

43 0.0 24.1 36.1#

58 0.0 50.8 76.2#



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: 49.709 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054699.D

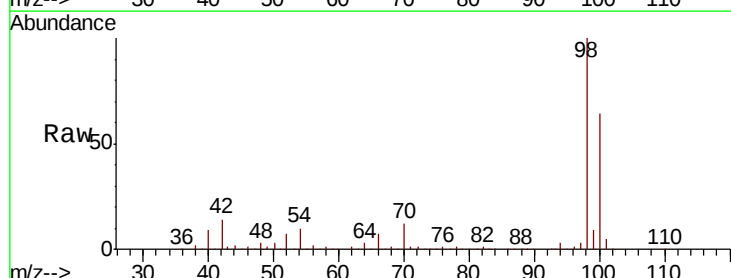
Acq: 26 Mar 2019 15:25

Tgt Ion: 98 Resp: 1053318

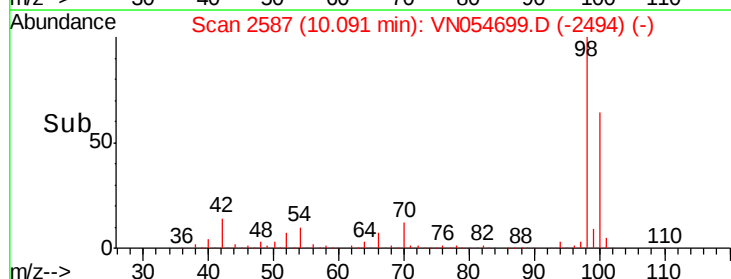
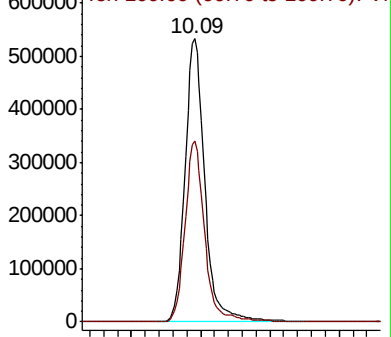
Ion Ratio Lower Upper

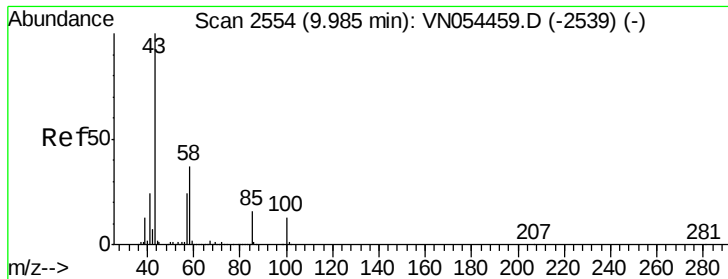
98 100

100 63.8 51.2 76.8



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: 0.959 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN054699.D

Acq: 26 Mar 2019 15:25

Instrument :

MSVOA_N

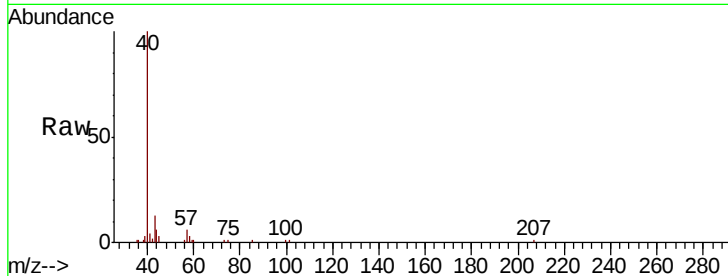
ClientSampled :

Tot Ion: 43 Resp: 5221

Ion Ratio Lower Upper

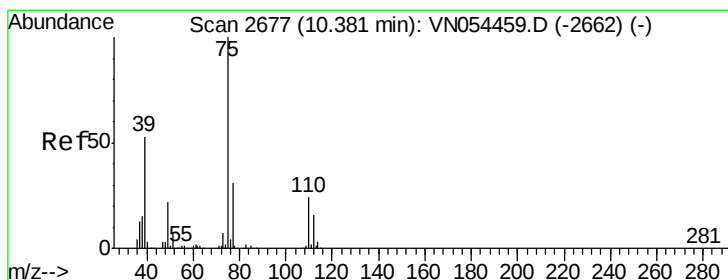
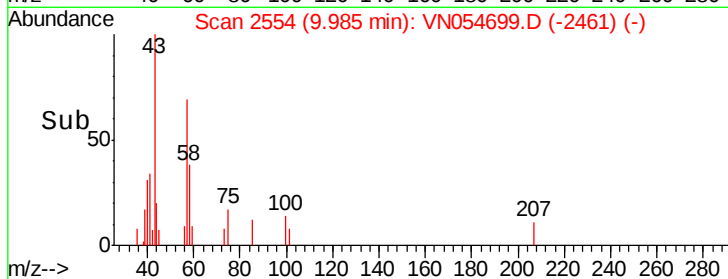
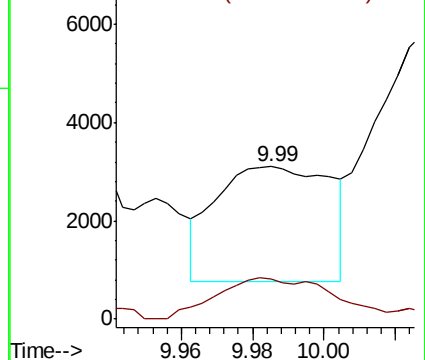
43 100

58 36.2 31.8 47.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#53

t-1,3-Dichloropropene

Concen: 2.263 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.29 min

Lab File: VN054699.D

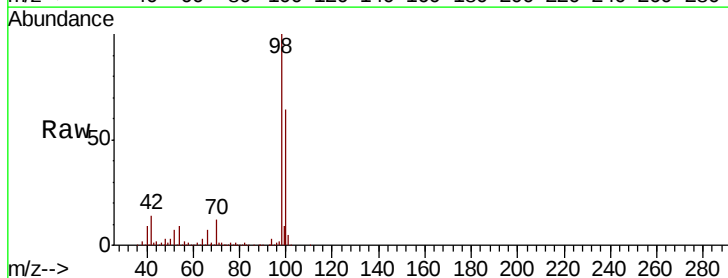
Acq: 26 Mar 2019 15:25

Tgt Ion: 75 Resp: 267

Ion Ratio Lower Upper

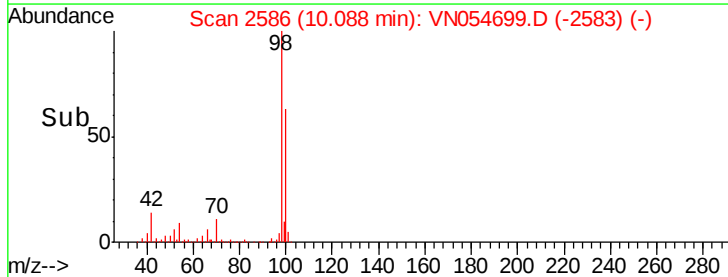
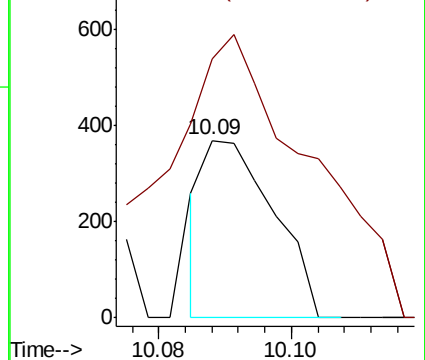
75 100

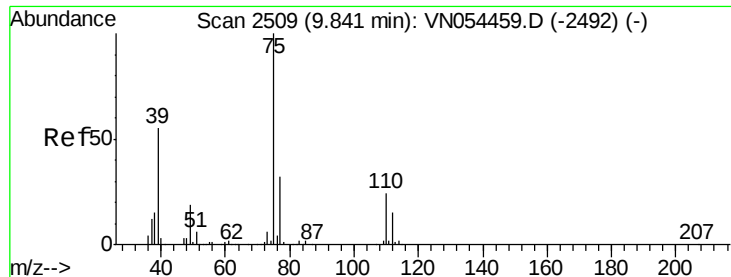
77 72.1 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0





#54

cis-1,3-Dichloropropene

Concen: 5.593 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054699.D

Acq: 26 Mar 2019 15:25

Instrument :
MSVOA_N
ClientSampleId :

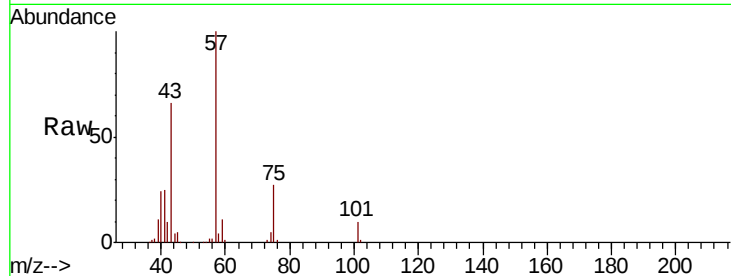
Tot Ion: 75 Resp: 49875

Ion Ratio Lower Upper

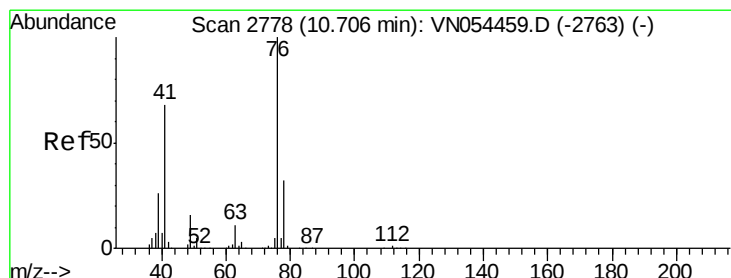
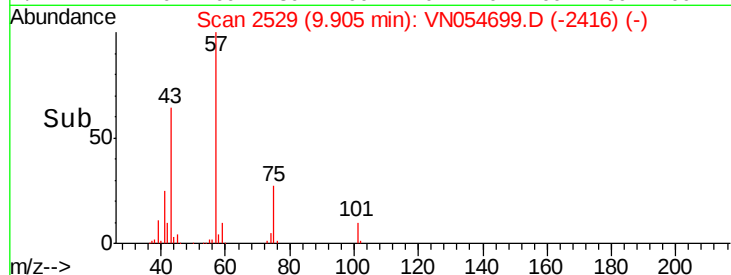
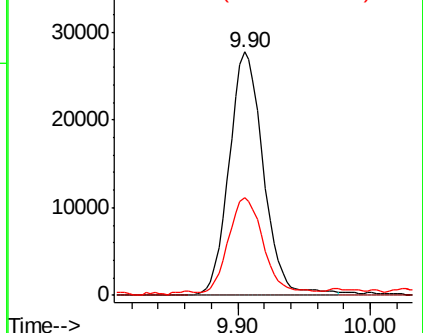
75 100

77 0.0 25.4 38.0#

39 38.6 37.2 55.8



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 76.90 (76.60 to 77.60): VN0
Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.045 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN054699.D

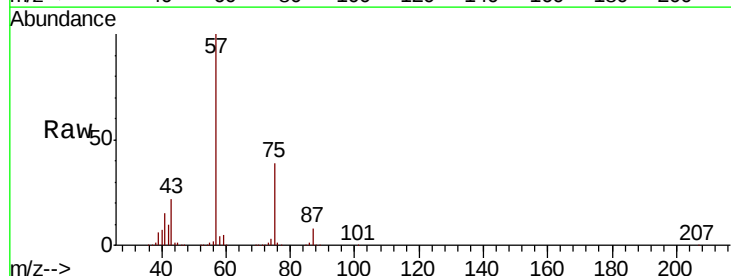
Acq: 26 Mar 2019 15:25

Tgt Ion: 76 Resp: 9396

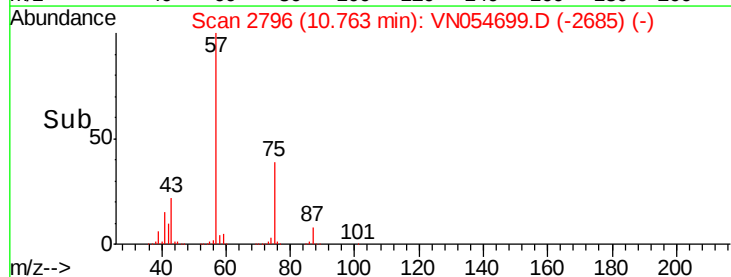
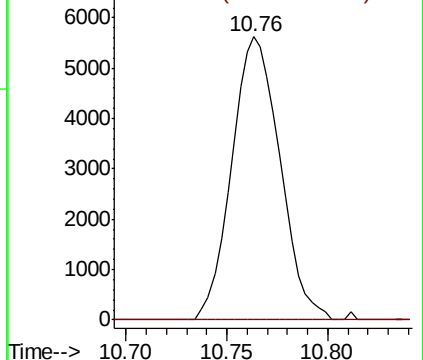
Ion Ratio Lower Upper

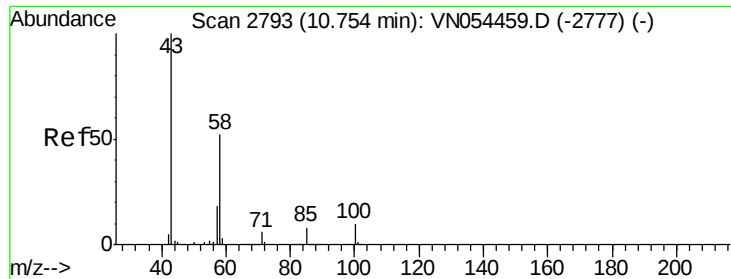
76 100

78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0
Ion 77.90 (77.60 to 78.60): VN0

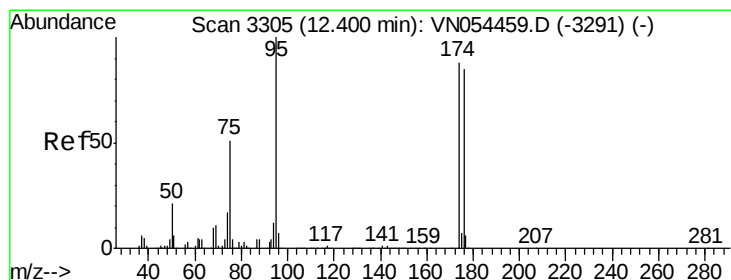
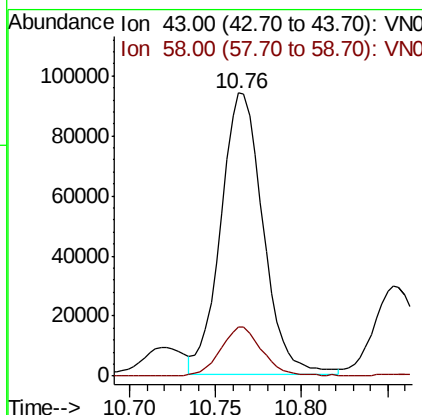
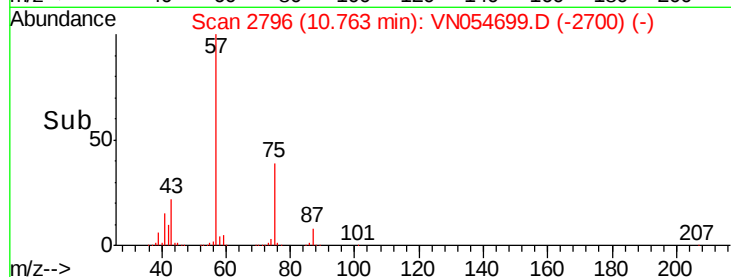
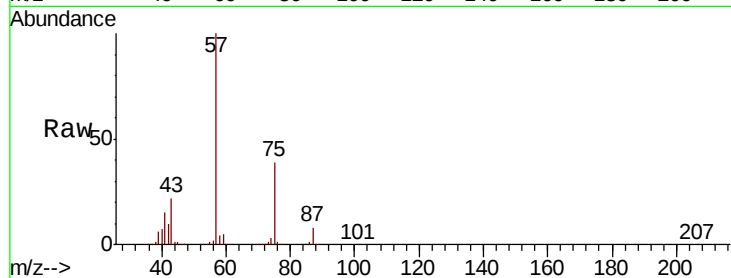




#59
2-Hexanone
Concen: 45.115 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN054699.D
Acq: 26 Mar 2019 15:25

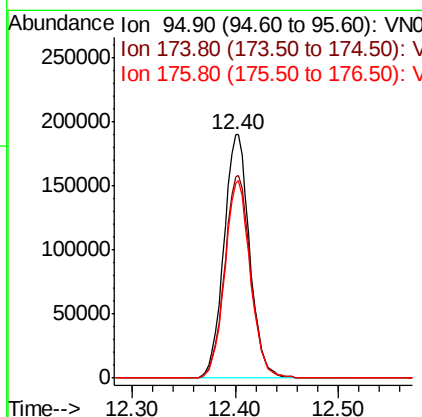
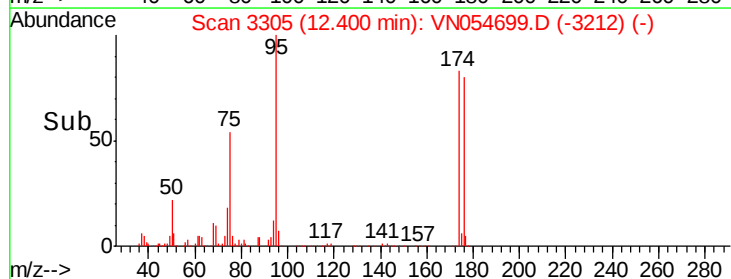
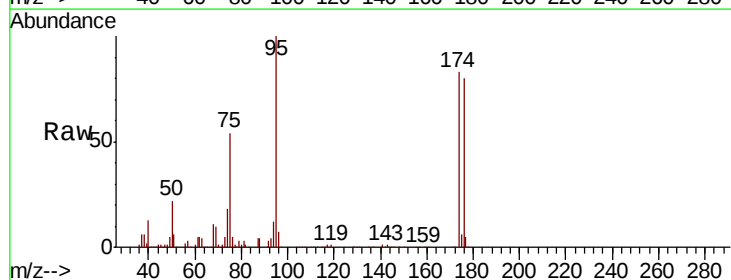
Instrument :
MSVOA_N
ClientSampled :

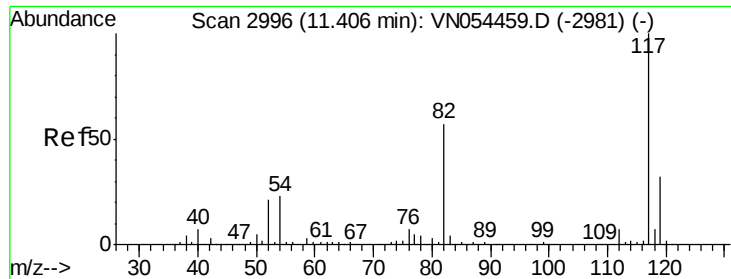
Tot Ion: 43 Resp: 160474
Ion Ratio Lower Upper
43 100
58 17.3 28.0 83.9#



#62
4-Bromofluorobenzene
Concen: 45.742 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN054699.D
Acq: 26 Mar 2019 15:25

Tgt Ion: 95 Resp: 329825
Ion Ratio Lower Upper
95 100
174 84.4 0.0 191.0
176 80.6 0.0 187.4

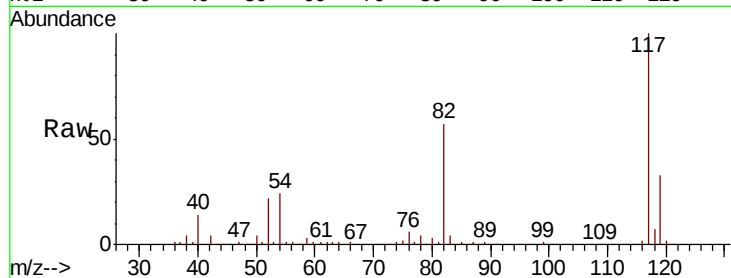




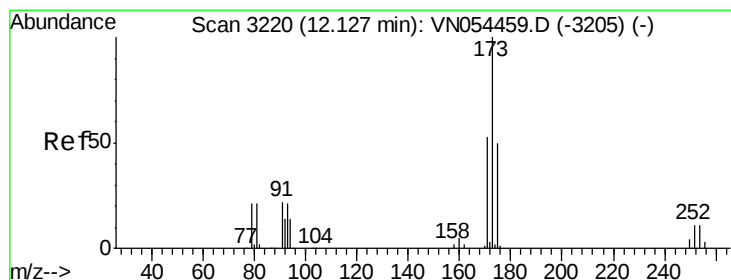
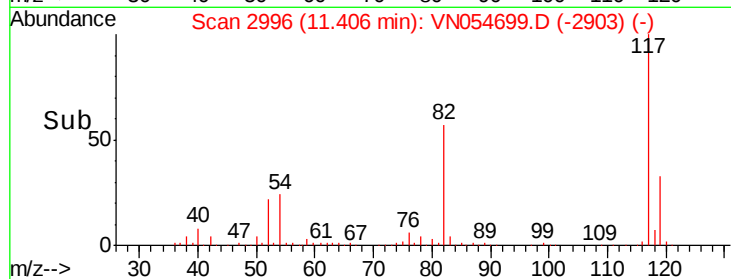
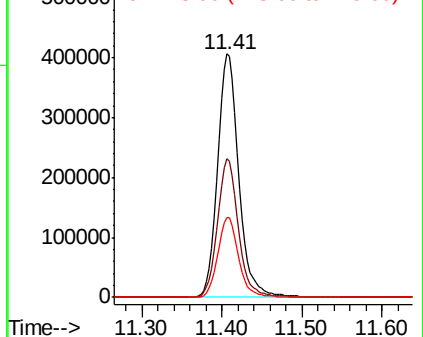
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054699.D
Acq: 26 Mar 2019 15:25

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 747675
Ion Ratio Lower Upper
117 100
82 56.7 40.0 60.0
119 32.9 25.8 38.6

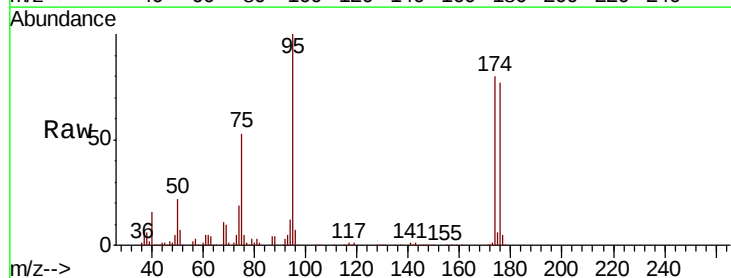


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

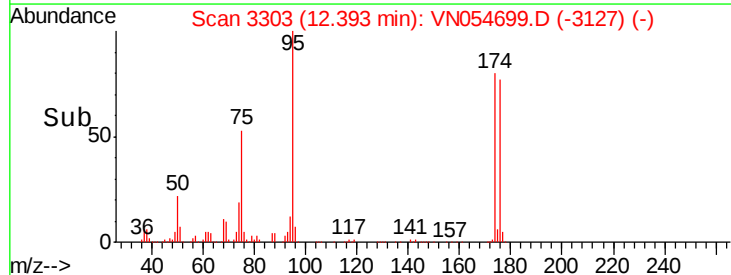
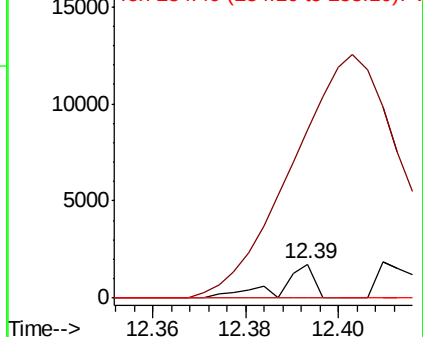


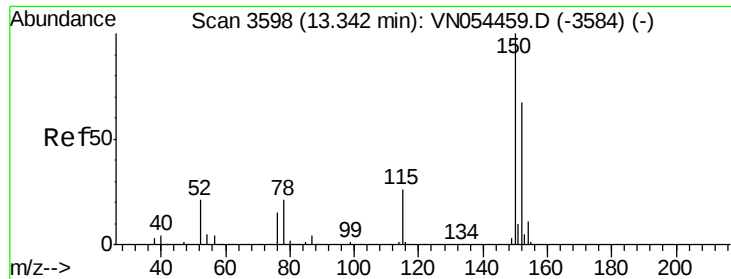
#71
Bromoform
Concen: 2.444 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.27 min
Lab File: VN054699.D
Acq: 26 Mar 2019 15:25

Tgt Ion:173 Resp: 879
Ion Ratio Lower Upper
173 100
175 0.0 24.4 73.2#
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



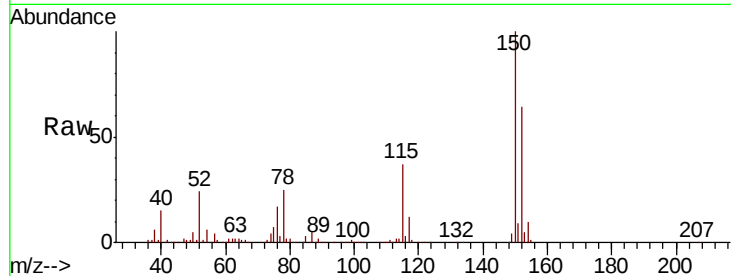


#72

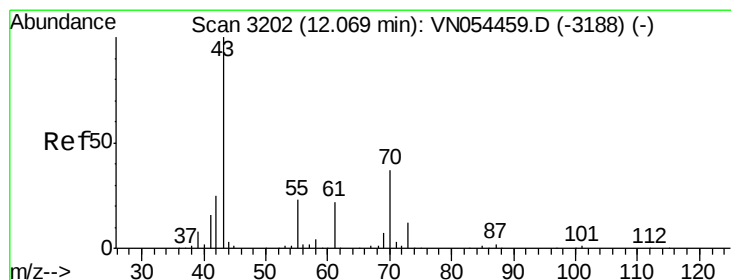
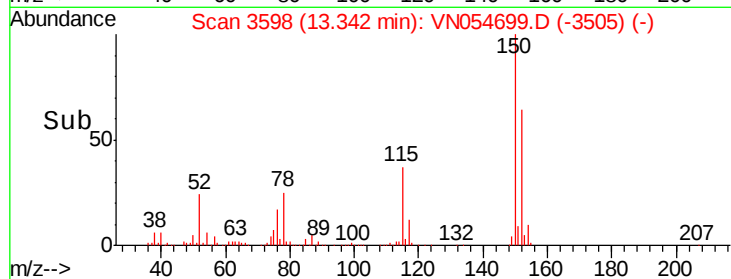
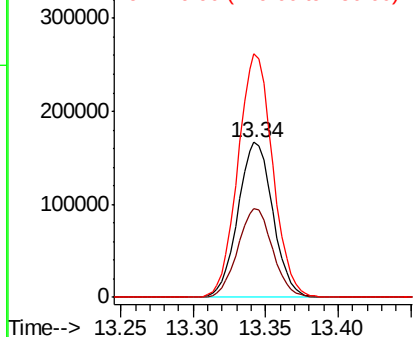
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN054699.D
Acq: 26 Mar 2019 15:25

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:152 Resp: 278741
Ion Ratio Lower Upper
152 100
115 56.8 27.2 81.6
150 156.5 0.0 349.2



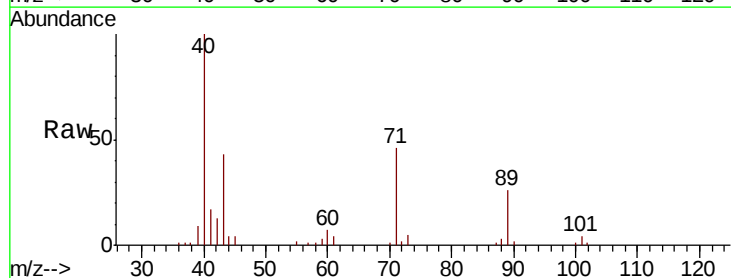
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



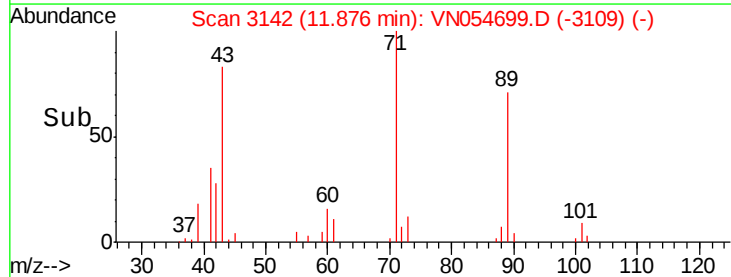
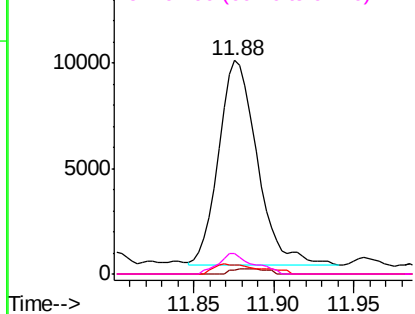
#74

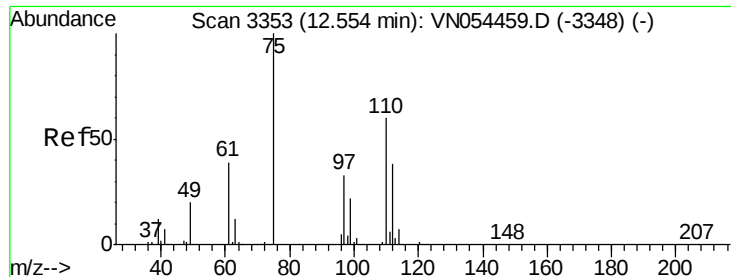
N-ethyl acetate
Concen: 2.479 ug/l
RT: 11.88 min Scan# 3142
Delta R.T. -0.19 min
Lab File: VN054699.D
Acq: 26 Mar 2019 15:25

Tgt Ion: 43 Resp: 16011
Ion Ratio Lower Upper
43 100
70 2.2 35.4 53.0#
55 4.5 19.8 29.6#
61 9.0 19.8 29.6#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 70.00 (69.70 to 70.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 39.126 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054699.D

Acq: 26 Mar 2019 15:25

Instrument :

MSVOA_N

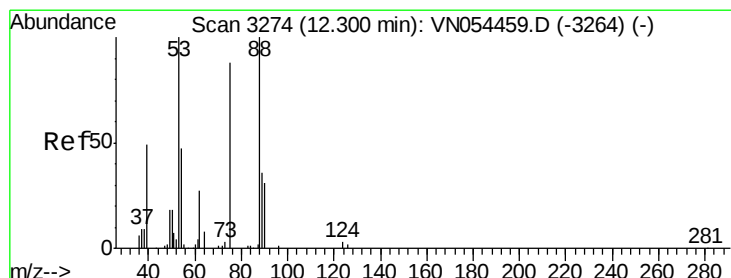
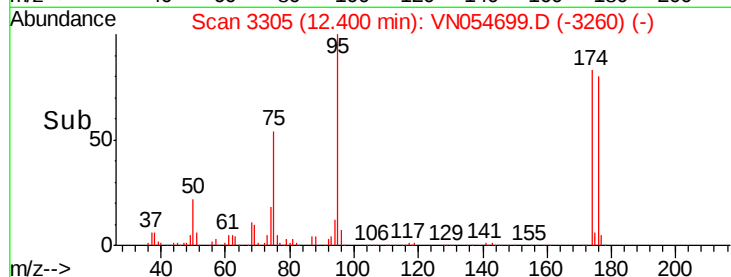
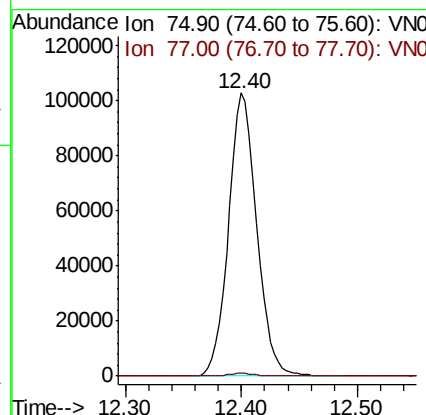
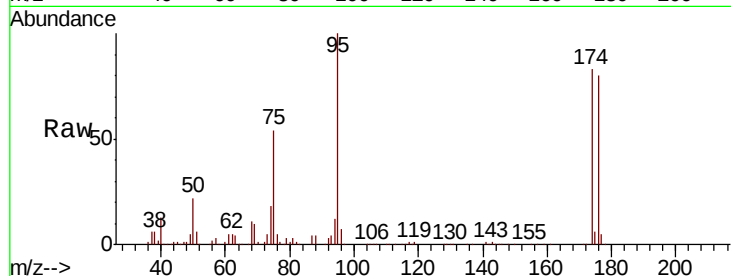
ClientSampleId :

Tot Ion: 75 Resp: 173060

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 129.495 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054699.D

Acq: 26 Mar 2019 15:25

Tgt Ion: 75 Resp: 173060

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#

