

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032819\
 Data File : VN054734.D
 Acq On : 28 Mar 2019 10:45
 Operator : JC/SP
 Sample : VN0328WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0328WBL01

Quant Time: Mar 29 05:00:36 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	7.66	168	498660	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	793616	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	666285	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	224781	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	322564	52.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.02%	
35) Dibromofluoromethane	7.59	113	254452	49.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.54%	
50) Toluene-d8	10.09	98	962493	50.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.14%	
62) 4-Bromofluorobenzene	12.40	95	288722	44.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.28%	

Target Compounds

					Qvalue	
13) Acrolein	3.61	56	635	1.225	ug/l	98
16) Acetone	3.80	43	1337	0.717	ug/l #	38
18) Methyl Acetate	4.34	43	2802	0.674	ug/l #	64
29) Tetrahydrofuran	7.21	42	373	0.241	ug/l #	30
31) Cyclohexane	7.66	56	11537	Below Cal	#	37
36) 1,1-Dichloropropene	7.66	75	37514	5.056	ug/l #	47
38) Carbon Tetrachloride	7.66	117	47088	6.530	ug/l #	16
49) 1,4-Dioxane	9.11	88	62	1.146	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	2284	0.462	ug/l	98
53) t-1,3-Dichloropropene	10.37	75	29	2.236	ug/l #	76
59) 2-Hexanone	10.76	43	3747	1.161	ug/l	97
71) Bromoform	12.39	173	511	2.366	ug/l #	1
74) N-amyl acetate	12.07	43	1910	0.367	ug/l #	91
76) 1,2,3-Trichloropropane	12.40	75	149001	41.773	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	149001	138.043	ug/l #	11
87) 1,3-Dichlorobenzene	13.29	146	1527	0.205	ug/l	97
88) 1,4-Dichlorobenzene	13.29	146	1527	0.211	ug/l	98
89) n-Butylbenzene	13.61	91	3991	0.354	ug/l	95
91) 1,2-Dichlorobenzene	13.65	146	1855	0.257	ug/l	96
93) 1,2,4-Trichlorobenzene	14.91	180	3581	0.996	ug/l	91
94) Hexachlorobutadiene	15.01	225	4763	Below Cal		88
95) Naphthalene	15.14	128	10606	1.323	ug/l	98
96) 1,2,3-Trichlorobenzene	15.32	180	4728	1.322	ug/l	92

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

```
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN032819\  
Data File : VN054734.D  
Acq On    : 28 Mar 2019   10:45  
Operator  : JC/SP  
Sample    : VN0328WBL01  
Misc      : 5.00mL/MSVOA N/WATER  
ALS Vial  : 3      Sample Multiplier: 1
```



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054734.D

Acq: 28 Mar 2019 10:45

Instrument :

MSVOA_N

ClientSampled :

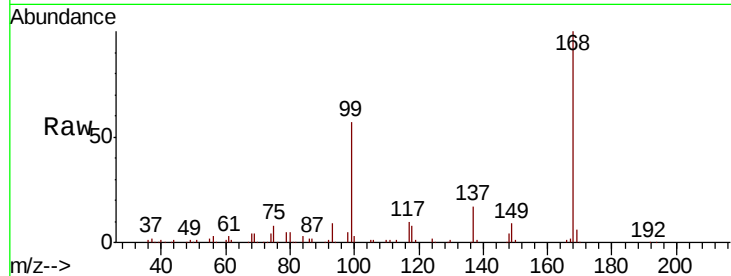
VN0328WBL01

Tot Ion:168 Resp: 498660

Ion Ratio Lower Upper

168 100

99 56.9 37.1 55.7#



Abundance Ion 167.90 (167.60 to 168.60): VN054734.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN054734.D (-1740) (-)

7.66

200000

150000

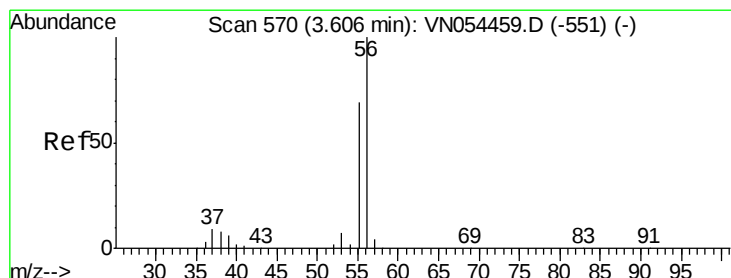
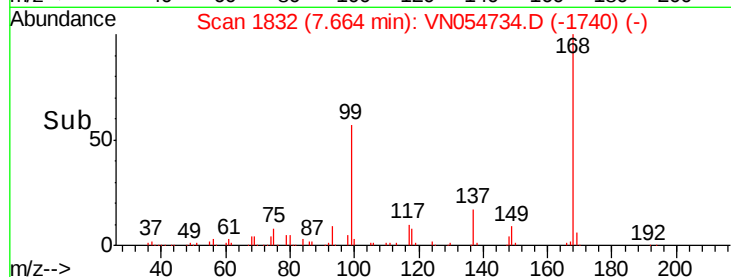
100000

50000

0

7.60 7.70 7.80

Time-->



#13

Acrolein

Concen: 1.225 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN054734.D

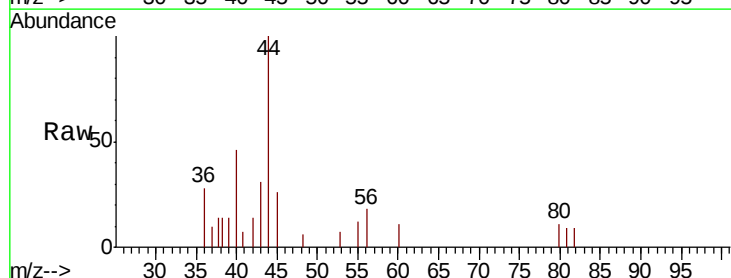
Acq: 28 Mar 2019 10:45

Tgt Ion: 56 Resp: 635

Ion Ratio Lower Upper

56 100

55 72.3 56.7 85.1



Abundance Ion 56.00 (55.70 to 56.70): VN054734.D (-477) (-)

Ion 55.00 (54.70 to 55.70): VN054734.D (-477) (-)

3.61

500

400

300

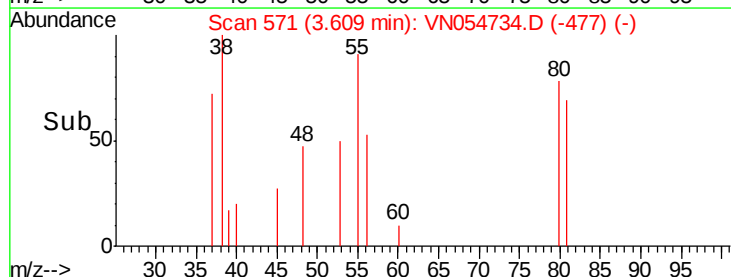
200

100

0

3.56 3.58 3.60 3.62

Time-->

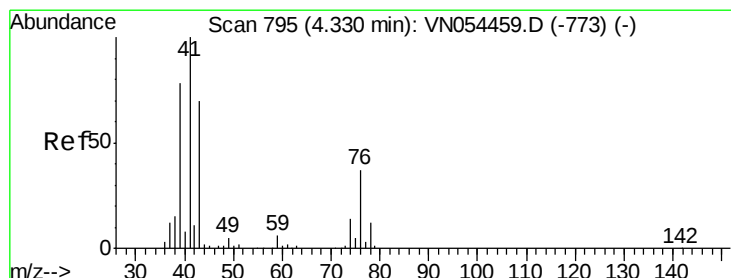
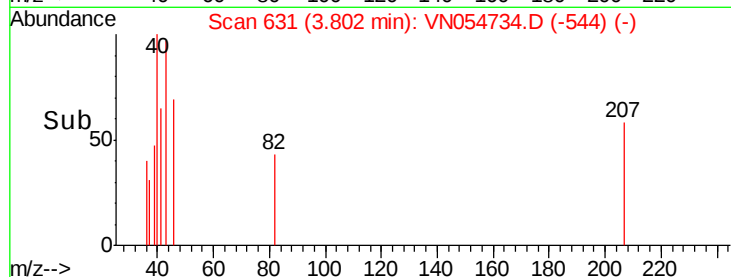
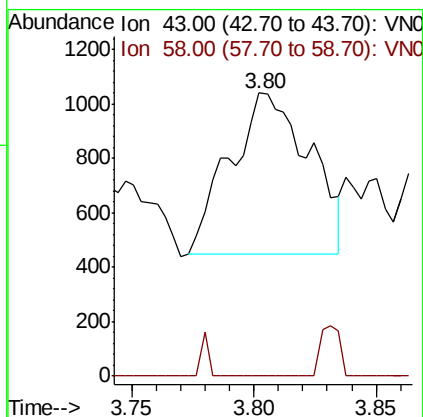
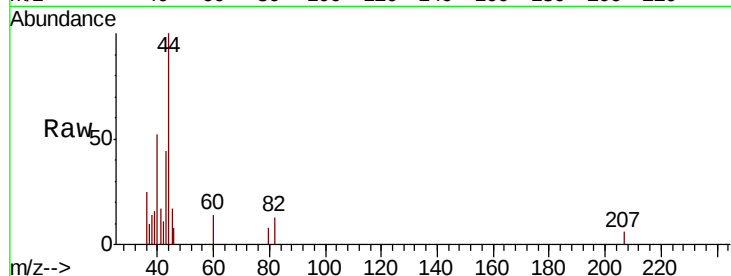




#16
Acetone
Concen: 0.717 ug/l
RT: 3.80 min Scan# 631
Delta R.T. -0.02 min
Lab File: VN054734.D
Acq: 28 Mar 2019 10:45

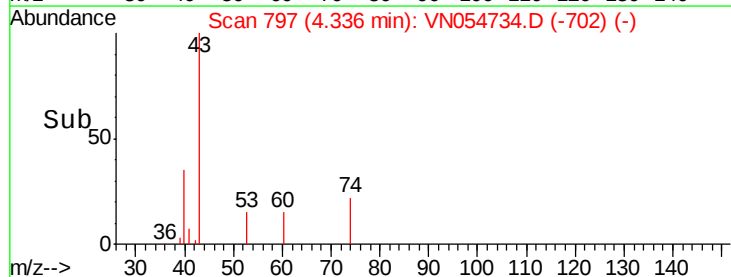
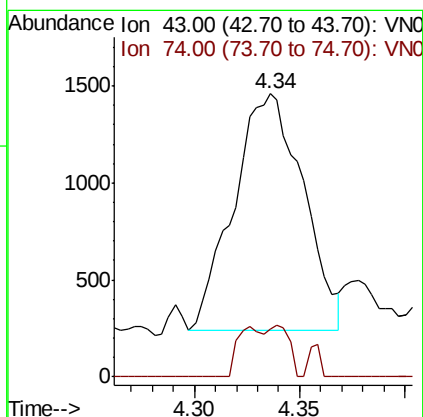
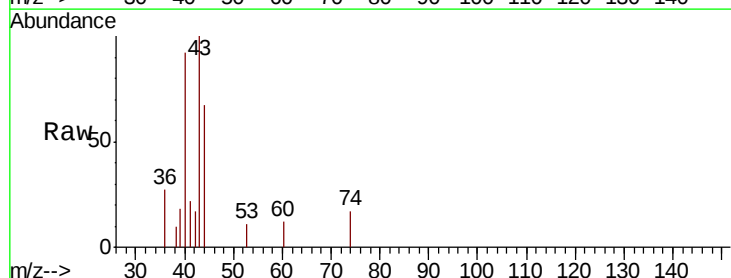
Instrument :
MSVOA_N
ClientSampled :
VN0328WBL01

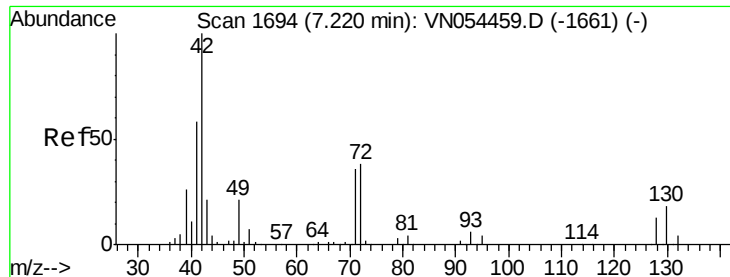
Tot Ion: 43 Resp: 1337
Ion Ratio Lower Upper
43 100
58 0.0 29.9 44.9#



#18
Methyl Acetate
Concen: 0.674 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN054734.D
Acq: 28 Mar 2019 10:45

Tgt Ion: 43 Resp: 2802
Ion Ratio Lower Upper
43 100
74 7.9 20.8 31.2#





#29

Tetrahydrofuran

Concen: 0.241 ug/l

RT: 7.21 min Scan# 1691

Delta R.T. -0.01 min

Lab File: VN054734.D

Acq: 28 Mar 2019 10:45

Instrument :

MSVOA_N

ClientSampleId :

VN0328WBL01

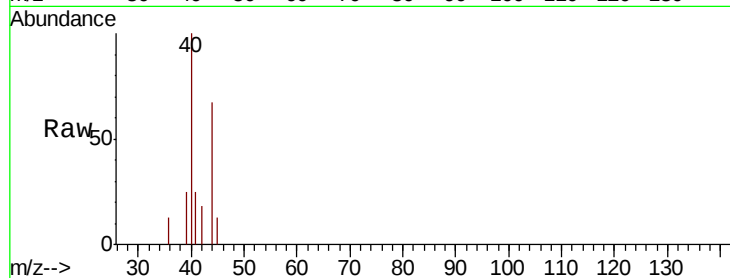
Tot Ion: 42 Resp: 373

Ion Ratio Lower Upper

42 100

72 0.0 37.8 56.6#

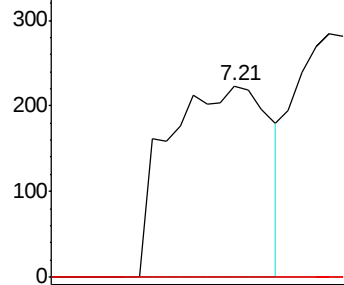
71 0.0 36.2 54.2#



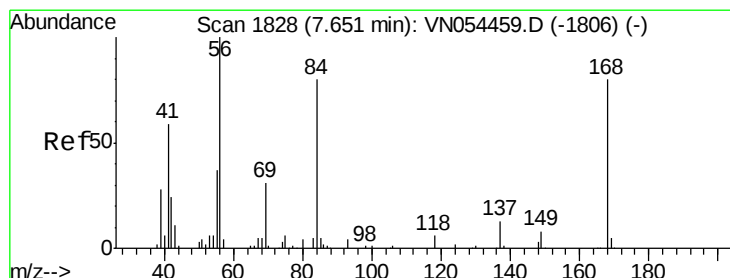
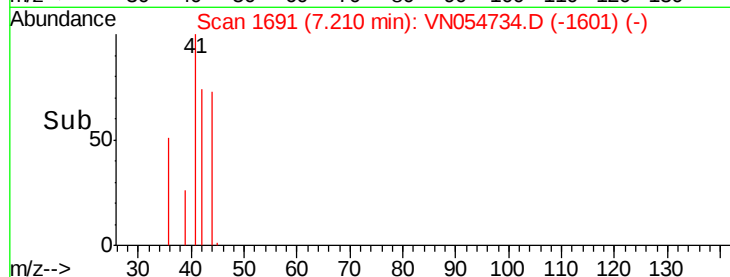
Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



Time-->



#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN054734.D

Acq: 28 Mar 2019 10:45

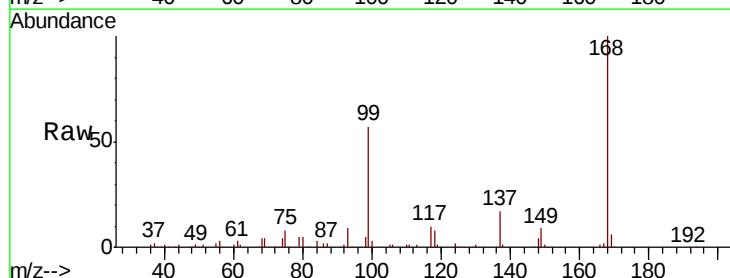
Tgt Ion: 56 Resp: 11537

Ion Ratio Lower Upper

56 100

69 151.3 27.8 41.6#

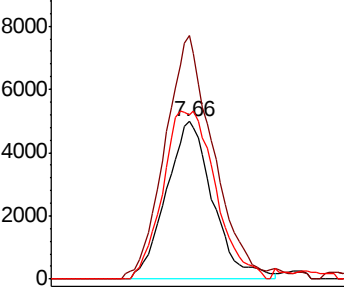
84 104.4 74.6 111.8



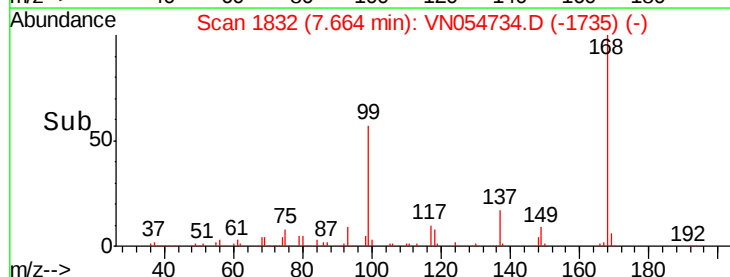
Abundance Ion 56.00 (55.70 to 56.70): VN0

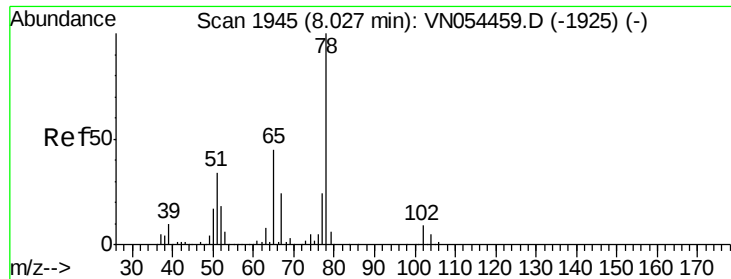
Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



Time-->

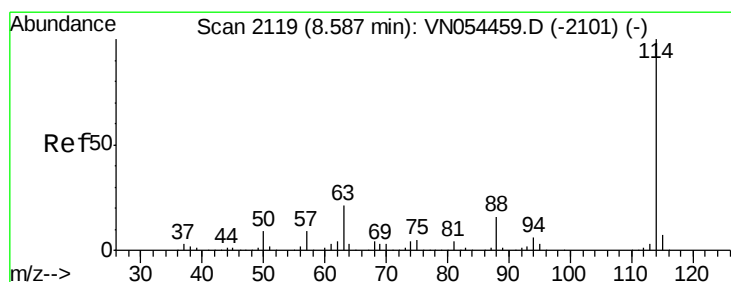
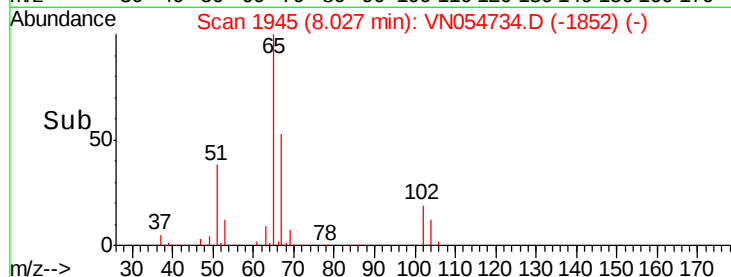
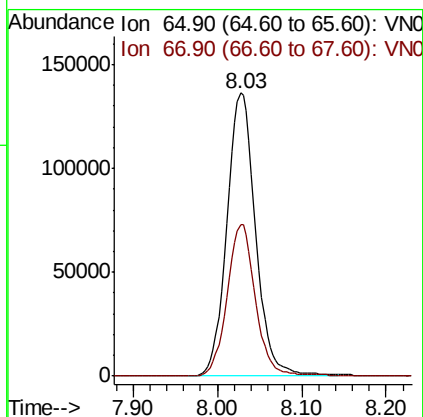
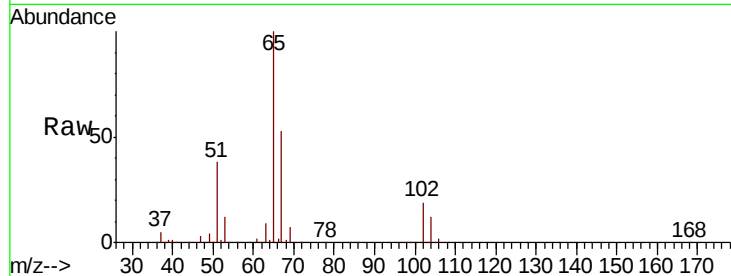




#33
 1,2-Dichloroethane-d4
 Concen: 52.005 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054734.D
 Acq: 28 Mar 2019 10:45

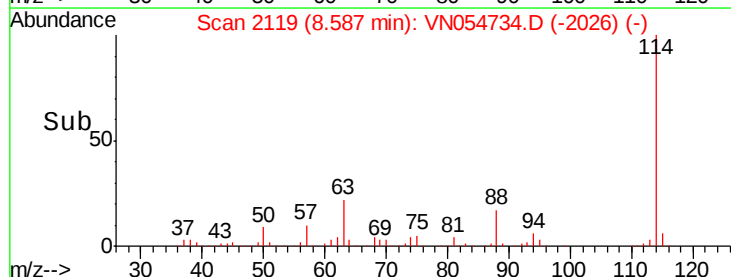
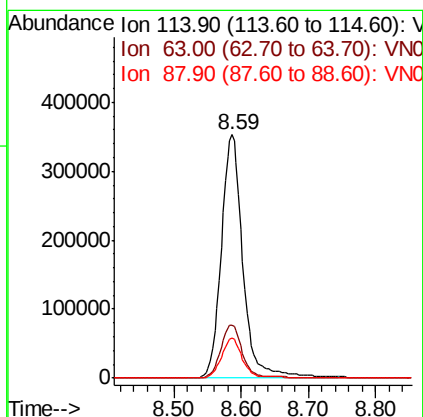
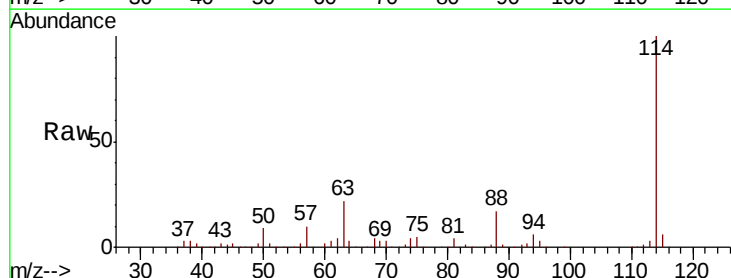
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0328WBL01

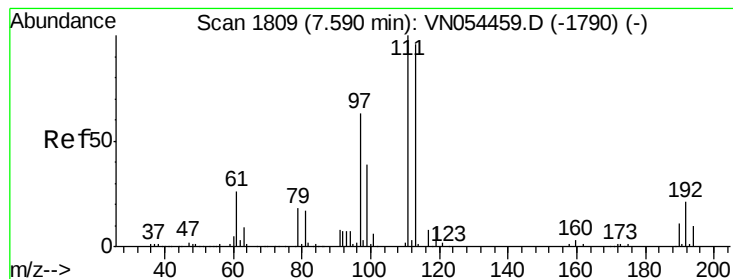
Tot Ion: 65 Resp: 322564
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054734.D
 Acq: 28 Mar 2019 10:45

Tgt Ion: 114 Resp: 793616
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 35.2
 88 16.5 0.0 30.2





#35

Dibromofluoromethane

Concen: 49.767 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN054734.D

Acq: 28 Mar 2019 10:45

Instrument :

MSVOA_N

ClientSampled :

VN0328WBL01

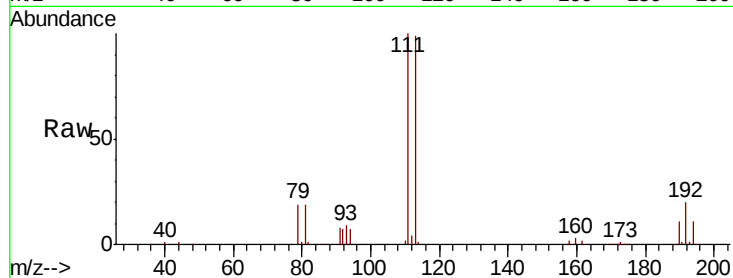
Tot Ion:113 Resp: 254452

Ion Ratio Lower Upper

113 100

111 102.3 82.2 123.4

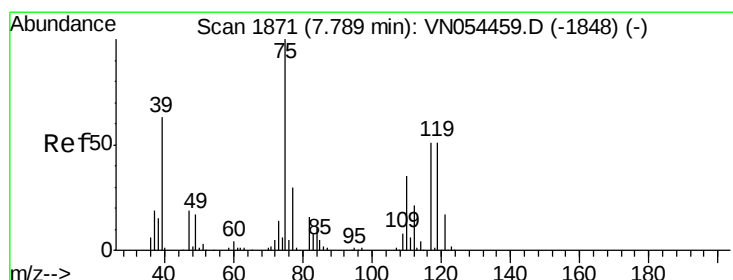
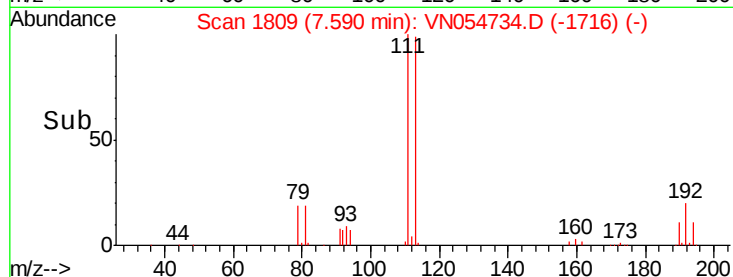
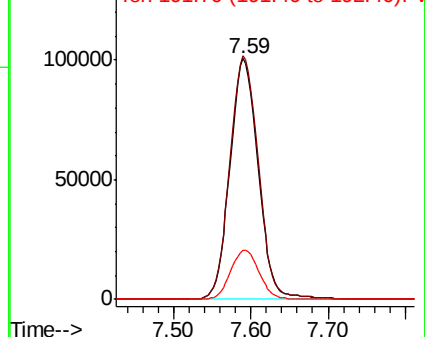
192 20.5 19.2 28.8



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: 5.056 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN054734.D

Acq: 28 Mar 2019 10:45

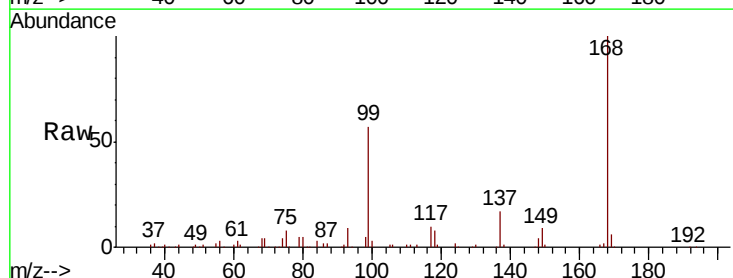
Tgt Ion: 75 Resp: 37514

Ion Ratio Lower Upper

75 100

110 7.9 19.1 57.5#

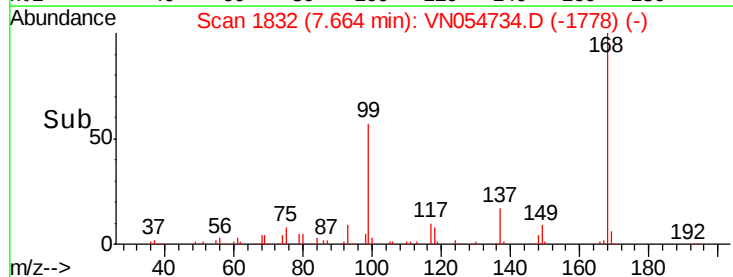
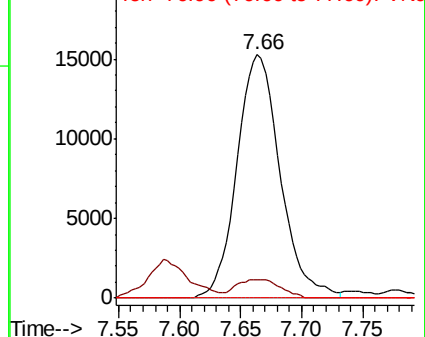
77 0.0 25.0 37.4#

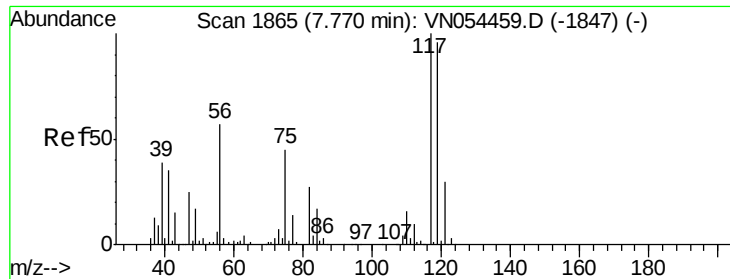


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 6.530 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054734.D

Acq: 28 Mar 2019 10:45

Instrument :

MSVOA_N

ClientSampled :

VN0328WBL01

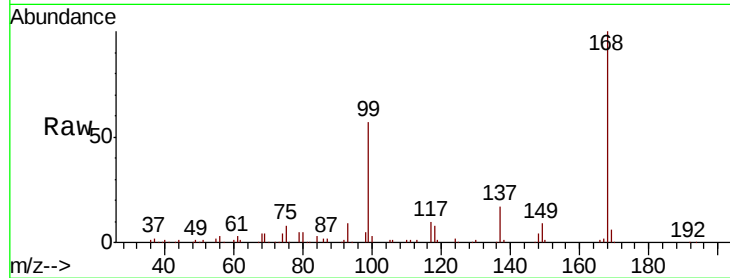
Tot Ion:117 Resp: 47088

Ion Ratio Lower Upper

117 100

119 5.2 76.3 114.5#

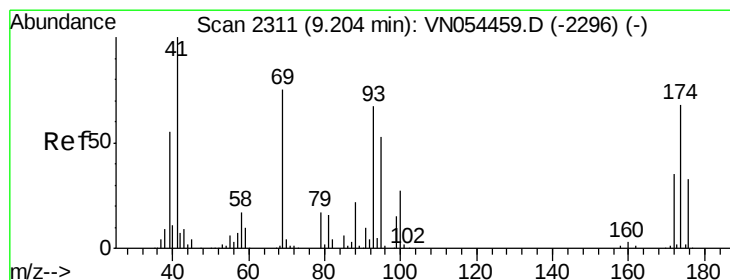
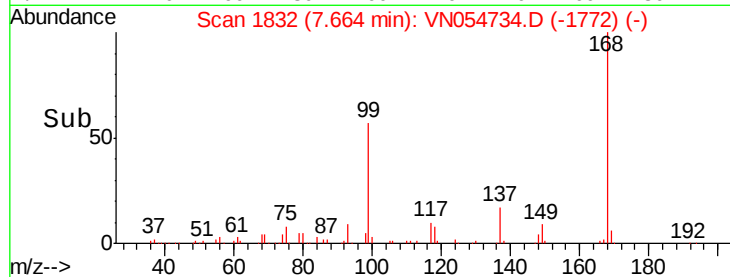
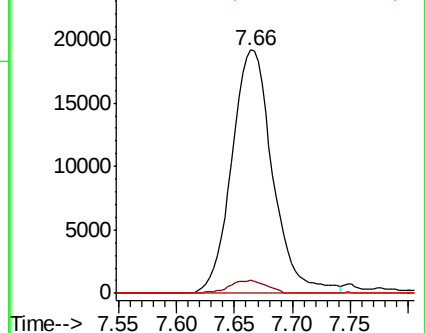
121 0.0 24.6 36.8#



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



#49

1,4-Dioxane

Concen: 1.146 ug/l

RT: 9.11 min Scan# 2282

Delta R.T. -0.09 min

Lab File: VN054734.D

Acq: 28 Mar 2019 10:45

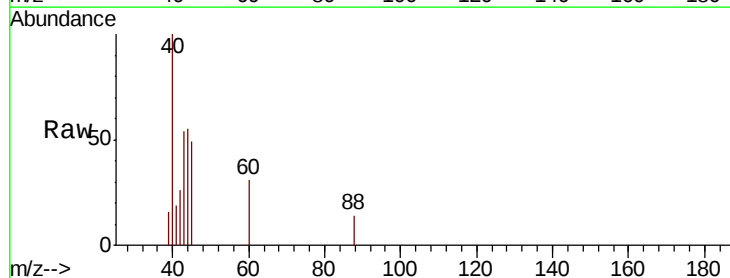
Tgt Ion: 88 Resp: 62

Ion Ratio Lower Upper

88 100

43 654.8 24.1 36.1#

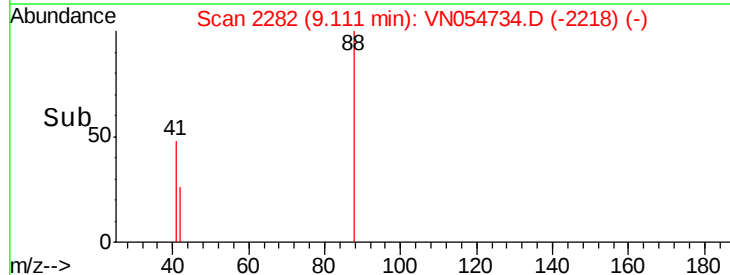
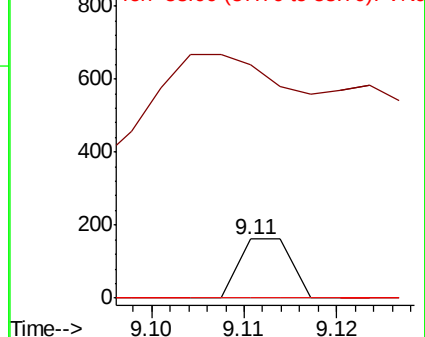
58 0.0 50.8 76.2#

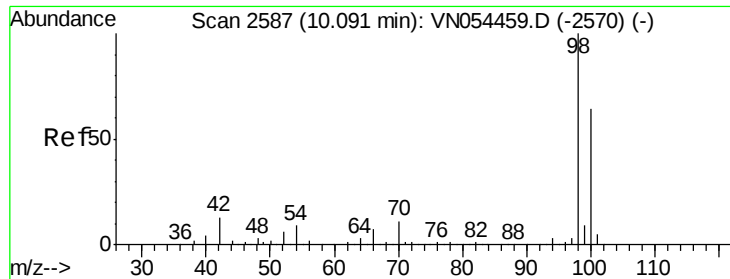


Abundance Ion 88.00 (87.70 to 88.70): V

Ion 43.00 (42.70 to 43.70): V

Ion 58.00 (57.70 to 58.70): V





#50

Toluene-d8

Concen: 50.075 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054734.D

Acq: 28 Mar 2019 10:45

Instrument :

MSVOA_N

ClientSampled :

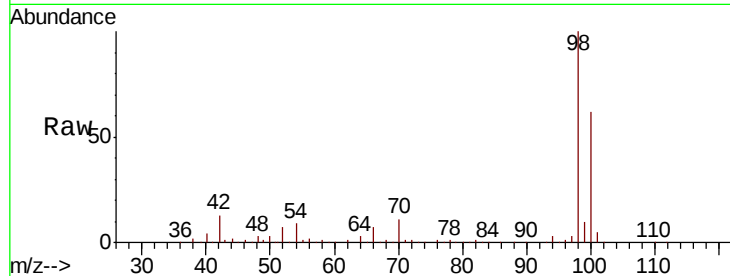
VN0328WBL01

Tot Ion: 98 Resp: 962493

Ion Ratio Lower Upper

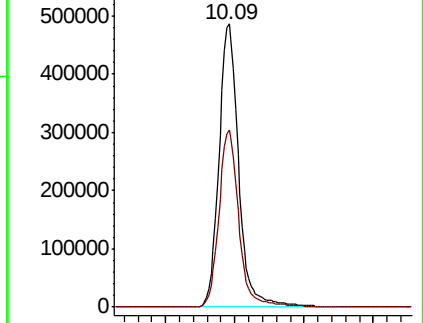
98 100

100 62.9 51.2 76.8

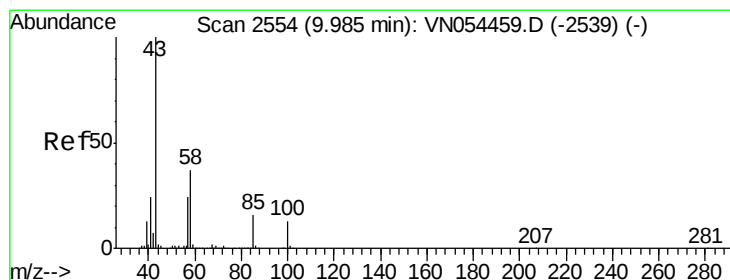
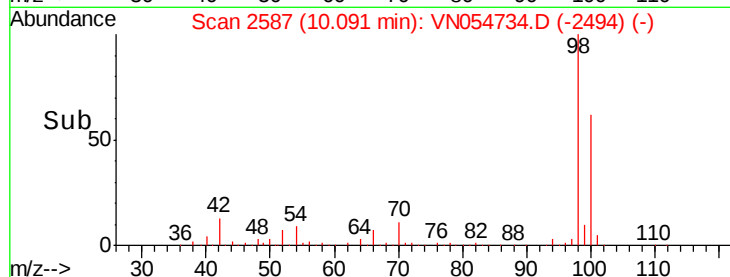


Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.462 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN054734.D

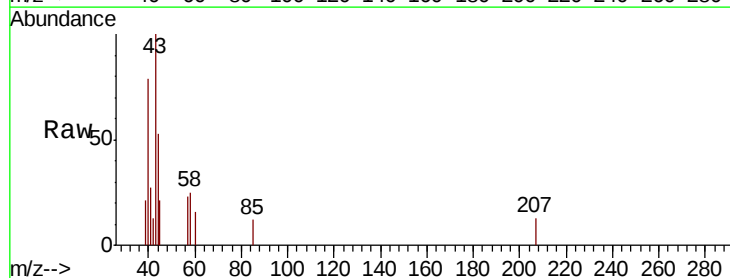
Acq: 28 Mar 2019 10:45

Tgt Ion: 43 Resp: 2284

Ion Ratio Lower Upper

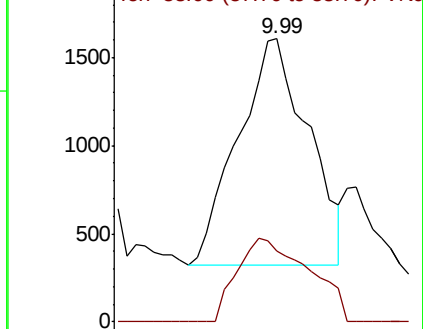
43 100

58 38.2 31.8 47.6

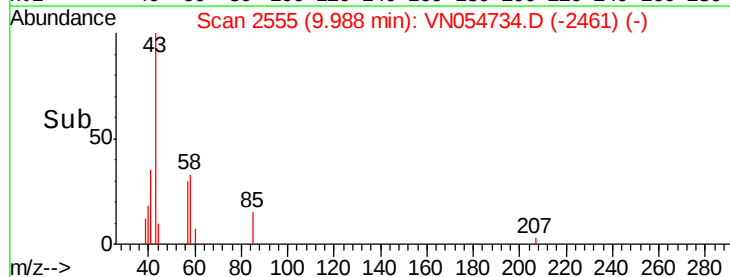


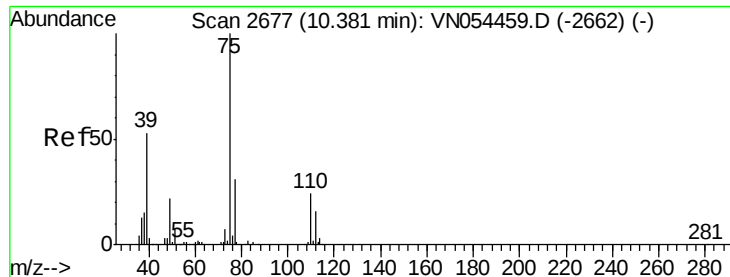
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->





#53

t-1,3-Dichloropropene

Concen: 2.236 ug/l

RT: 10.37 min Scan# 2675

Delta R.T. -0.01 min

Lab File: VN054734.D

Acq: 28 Mar 2019 10:45

Instrument :

MSVOA_N

ClientSampleId :

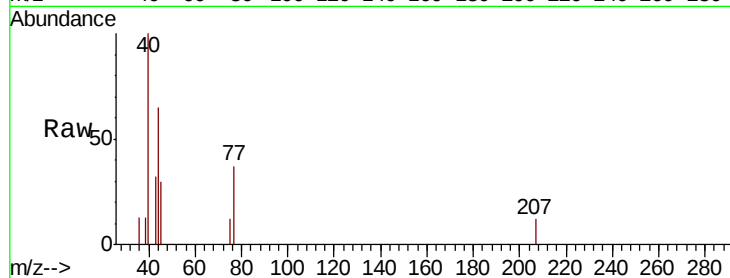
VN0328WBL01

Tot Ion: 75 Resp: 29

Ion Ratio Lower Upper

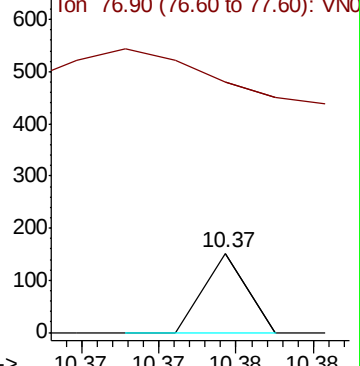
75 100

77 19.1 25.8 38.8#

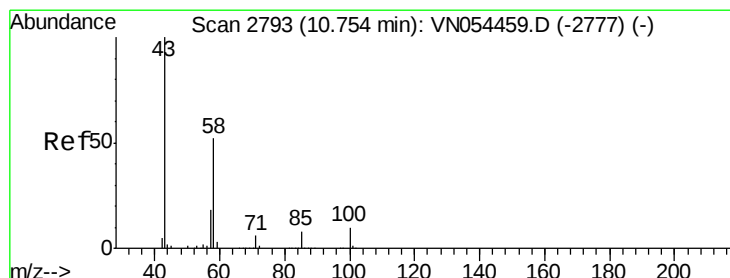
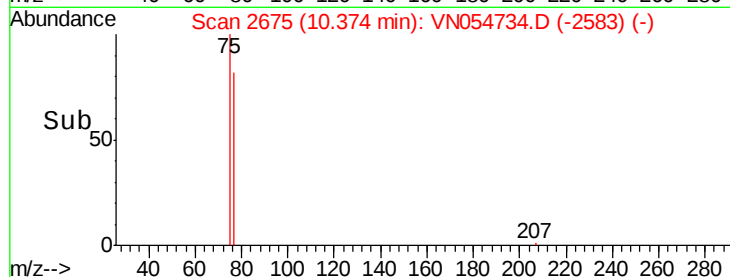


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



Time-->



#59

2-Hexanone

Concen: 1.161 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.00 min

Lab File: VN054734.D

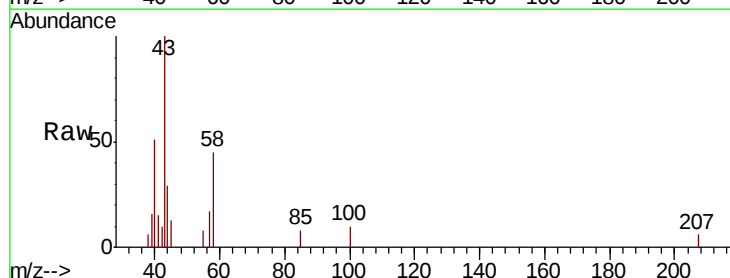
Acq: 28 Mar 2019 10:45

Tgt Ion: 43 Resp: 3747

Ion Ratio Lower Upper

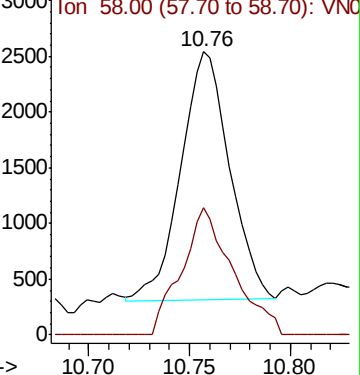
43 100

58 53.8 28.0 83.9

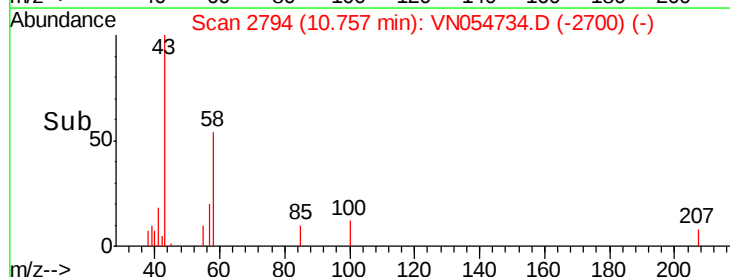


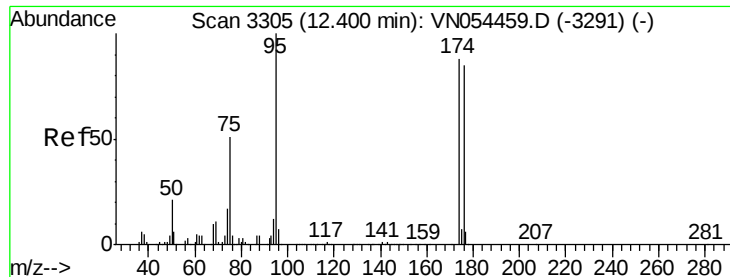
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->





#62

4-Bromofluorobenzene

Concen: 44.143 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054734.D

Acq: 28 Mar 2019 10:45

Instrument :

MSVOA_N

ClientSampleId :

VN0328WBL01

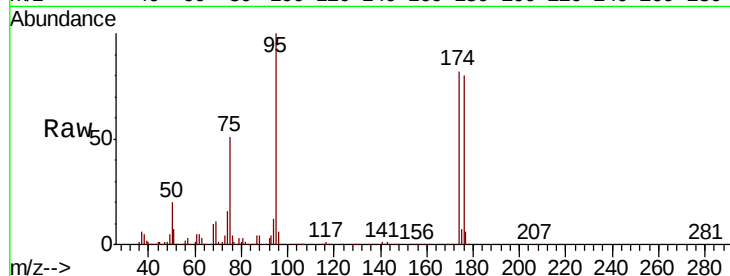
Tot Ion: 95 Resp: 288722

Ion Ratio Lower Upper

95 100

174 83.9 0.0 191.0

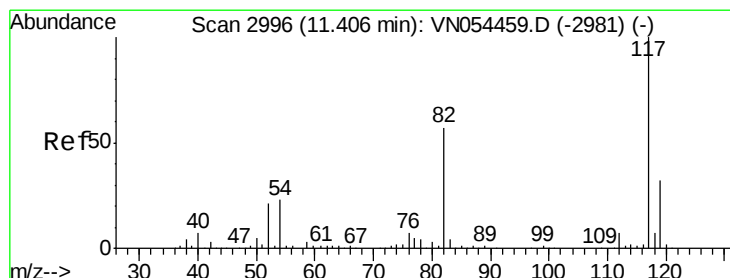
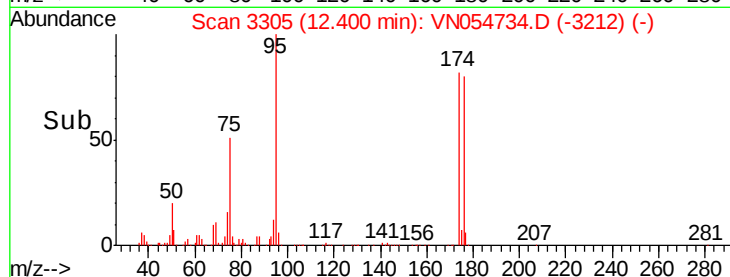
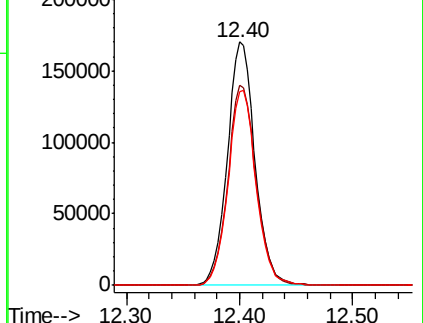
176 81.3 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054734.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN054734.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN054734.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN054734.D

Acq: 28 Mar 2019 10:45

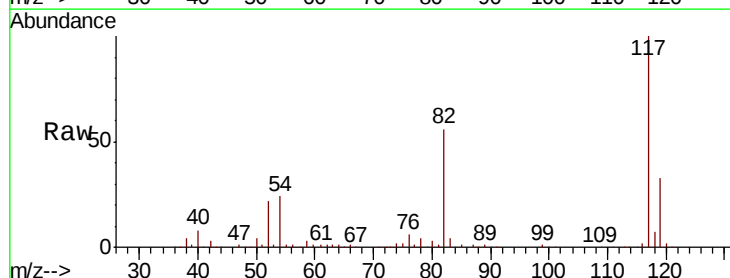
Tgt Ion: 117 Resp: 666285

Ion Ratio Lower Upper

117 100

82 56.2 40.0 60.0

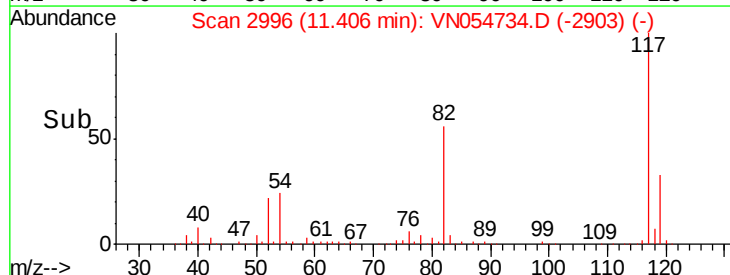
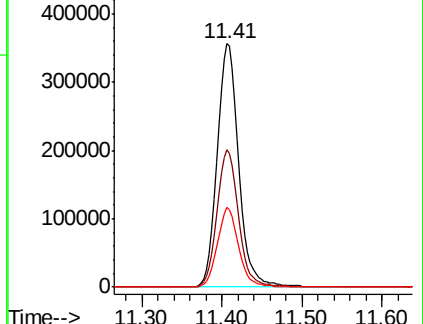
119 32.6 25.8 38.6

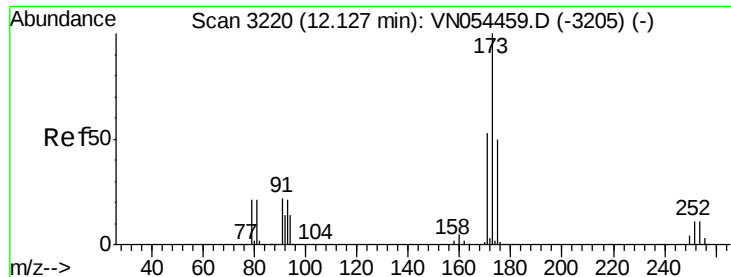


Abundance Ion 116.90 (116.60 to 117.60): VN054734.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN054734.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN054734.D (-2903) (-)





#71

Bromoform

Concen: 2.366 ug/l

RT: 12.39 min Scan# 3302

Delta R.T. 0.26 min

Lab File: VN054734.D

Acq: 28 Mar 2019 10:45

Instrument :

MSVOA_N

ClientSampleId :

VN0328WBL01

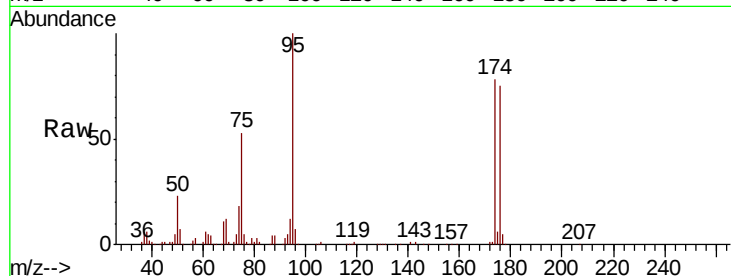
Tot Ion:173 Resp: 511

Ion Ratio Lower Upper

173 100

175 3044.2 24.4 73.2#

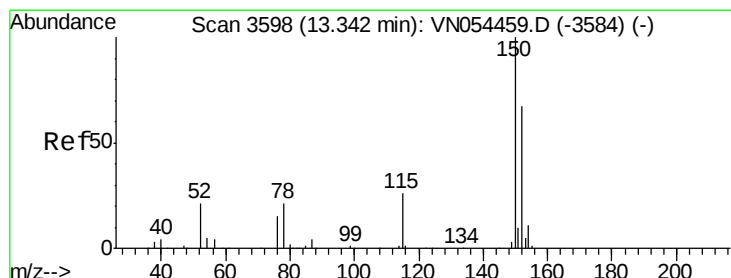
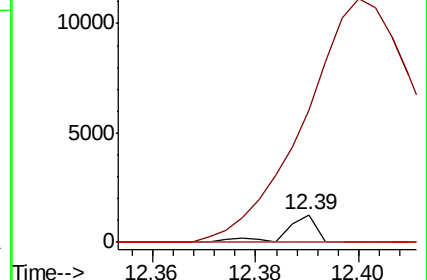
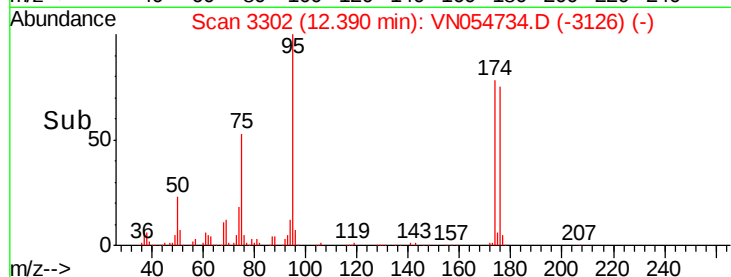
254 0.0 0.1 0.1#



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: VN054734.D

Acq: 28 Mar 2019 10:45

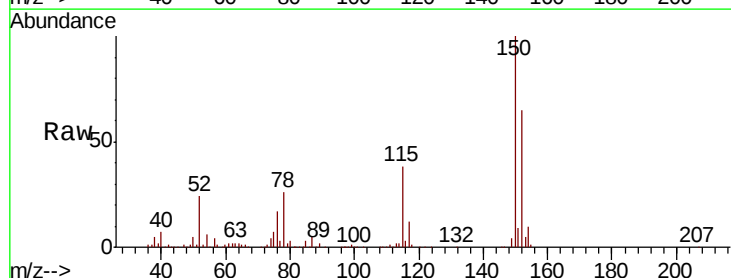
Tgt Ion:152 Resp: 224781

Ion Ratio Lower Upper

152 100

115 58.6 27.2 81.6

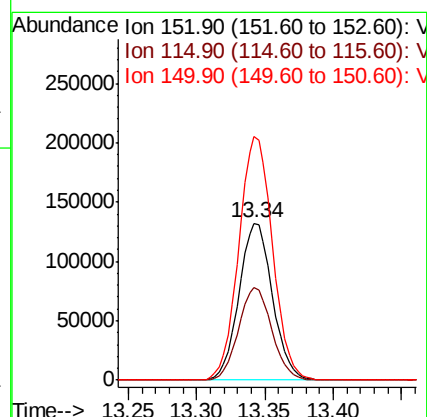
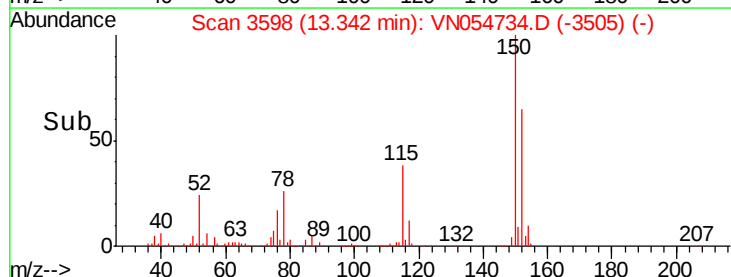
150 156.8 0.0 349.2

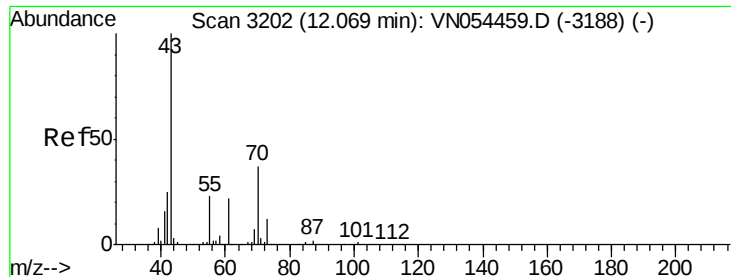


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.367 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN054734.D

Acq: 28 Mar 2019 10:45

Instrument :

MSVOA_N

ClientSampleId :

VN0328WBL01

Tot Ion: 43 Resp: 1910

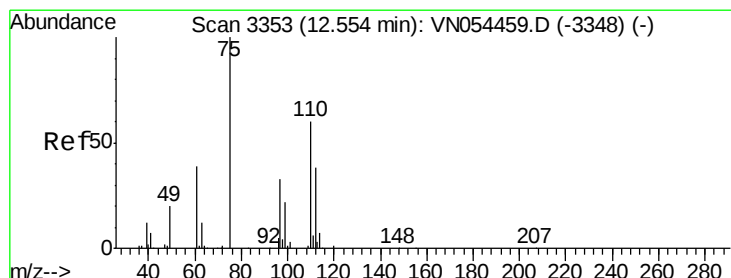
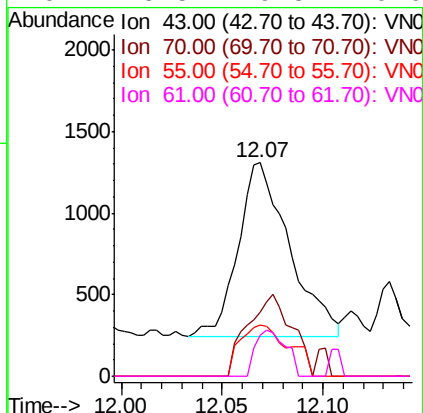
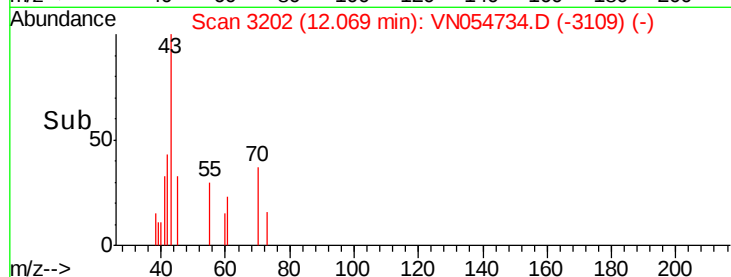
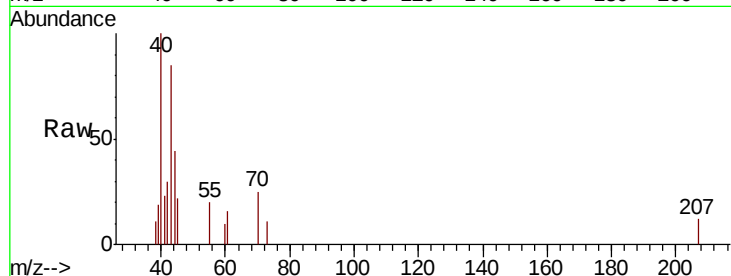
Ion Ratio Lower Upper

43 100

70 40.4 35.4 53.0

55 28.1 19.8 29.6

61 15.5 19.8 29.6#



#76

1,2,3-Trichloropropane

Concen: 41.773 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054734.D

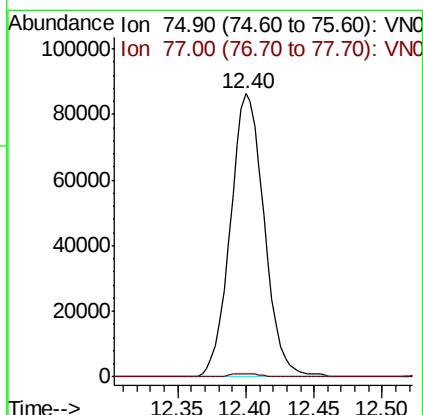
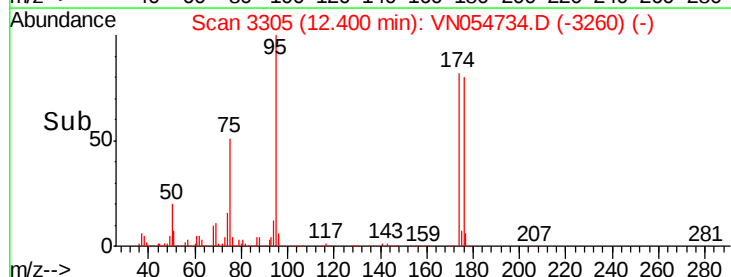
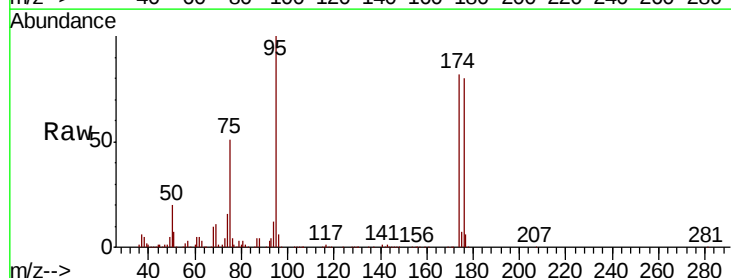
Acq: 28 Mar 2019 10:45

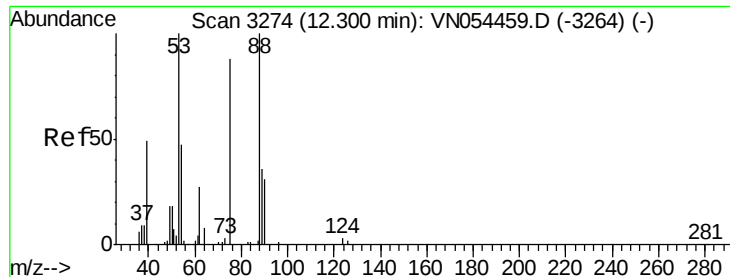
Tgt Ion: 75 Resp: 149001

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#

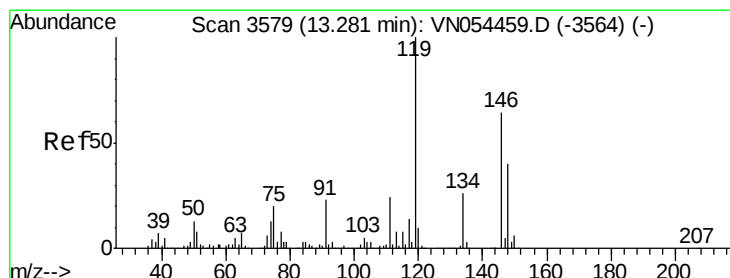
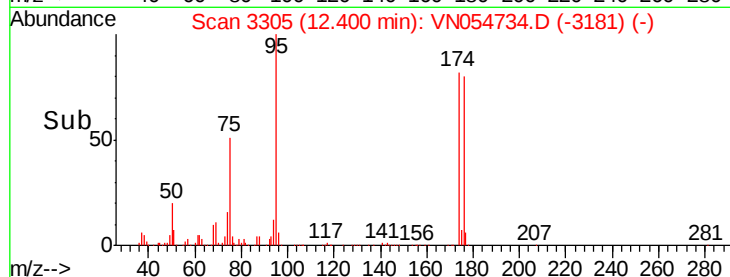
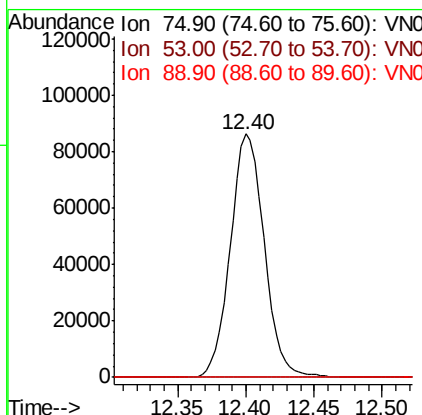
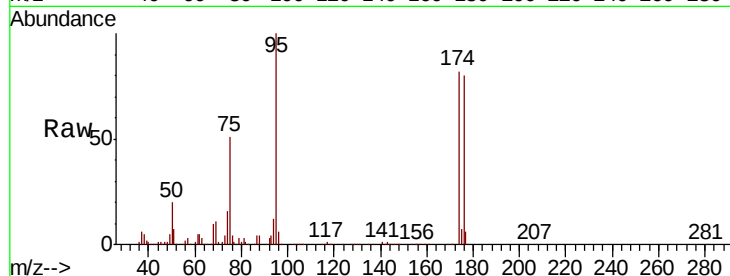




#81
trans-1,4-Dichloro-2-butene
Concen: 138.043 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN054734.D
Acq: 28 Mar 2019 10:45

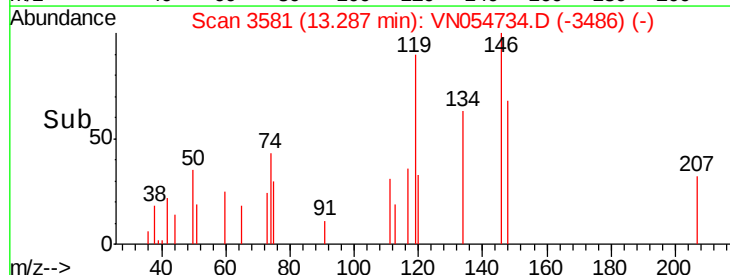
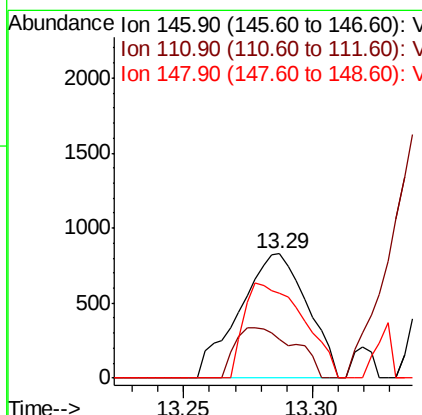
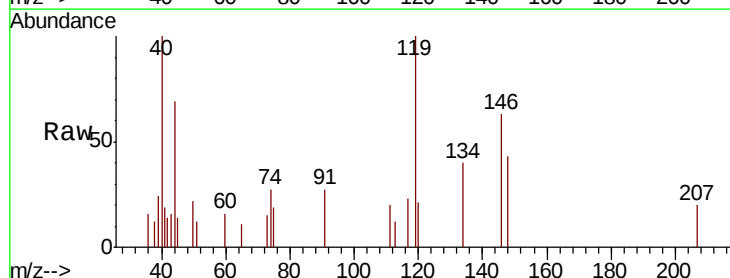
Instrument :
MSVOA_N
ClientSampleId :
VN0328WBL01

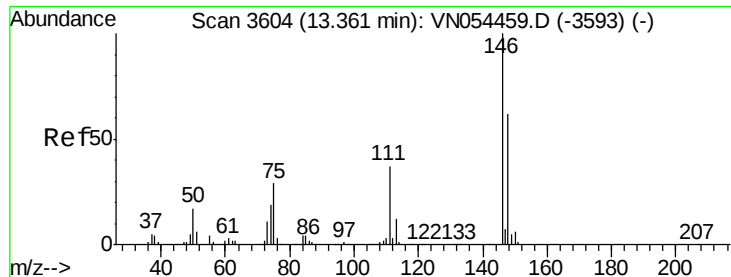
Tot Ion: 75 Resp: 149001
Ion Ratio Lower Upper
75 100
53 0.0 76.2 114.2#
89 0.0 39.2 58.8#



#87
1,3-Dichlorobenzene
Concen: 0.205 ug/l
RT: 13.29 min Scan# 3581
Delta R.T. 0.01 min
Lab File: VN054734.D
Acq: 28 Mar 2019 10:45

Tgt Ion: 146 Resp: 1527
Ion Ratio Lower Upper
146 100
111 35.5 18.8 56.3
148 66.4 32.2 96.6

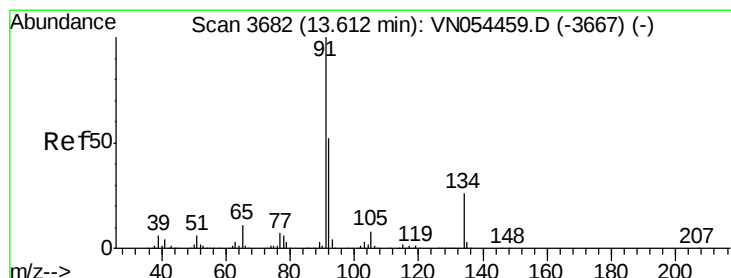
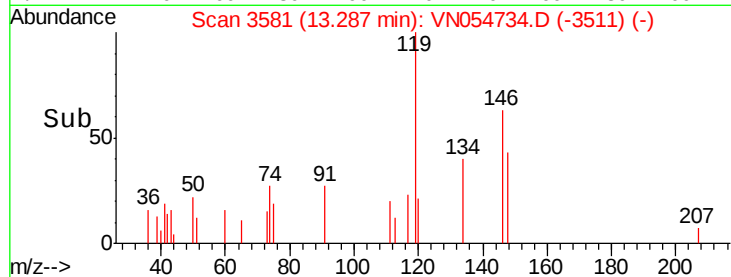
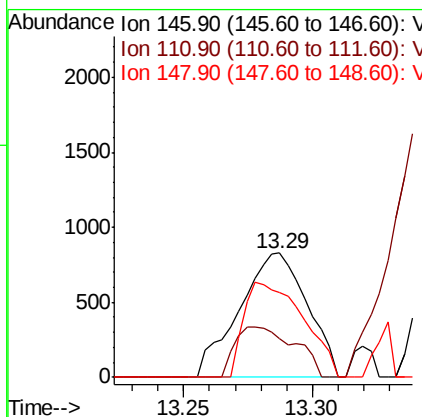
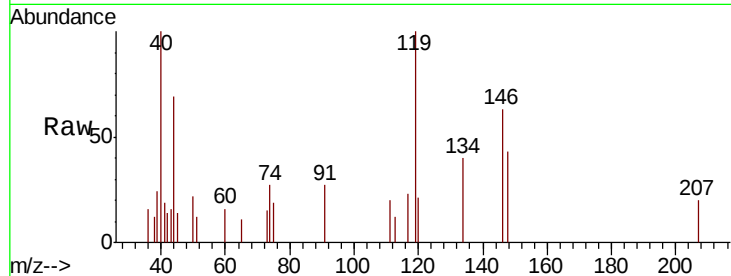




#88
 1,4-Dichlorobenzene
 Concen: 0.211 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.07 min
 Lab File: VN054734.D
 Acq: 28 Mar 2019 10:45

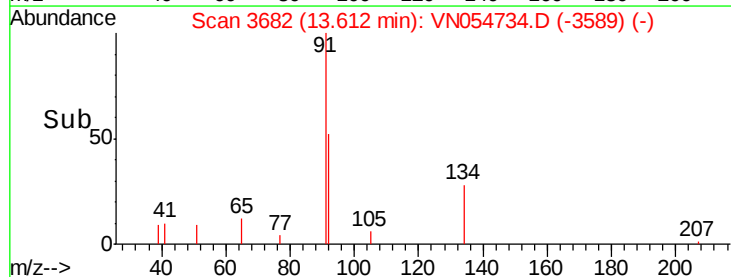
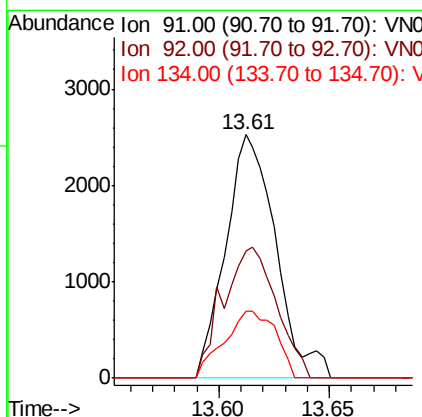
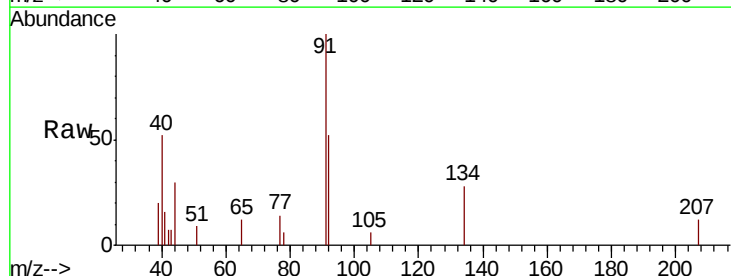
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0328WBL01

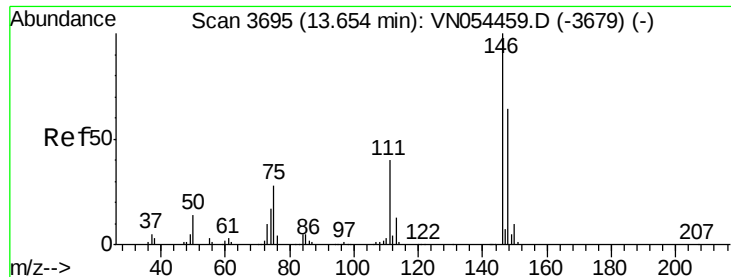
Tot Ion:146 Resp: 1527
 Ion Ratio Lower Upper
 146 100
 111 35.5 18.1 54.1
 148 66.4 32.0 96.0



#89
 n-Butylbenzene
 Concen: 0.354 ug/l
 RT: 13.61 min Scan# 3682
 Delta R.T. -0.00 min
 Lab File: VN054734.D
 Acq: 28 Mar 2019 10:45

Tgt Ion: 91 Resp: 3991
 Ion Ratio Lower Upper
 91 100
 92 57.1 26.2 78.6
 134 28.2 14.3 42.9

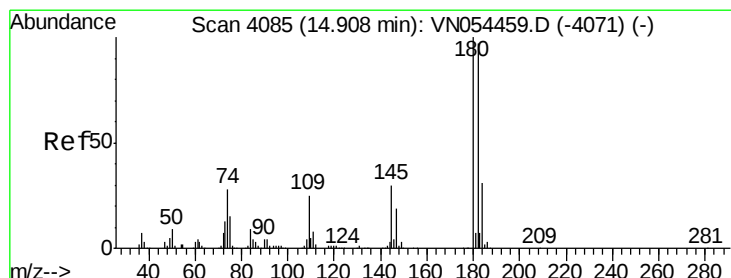
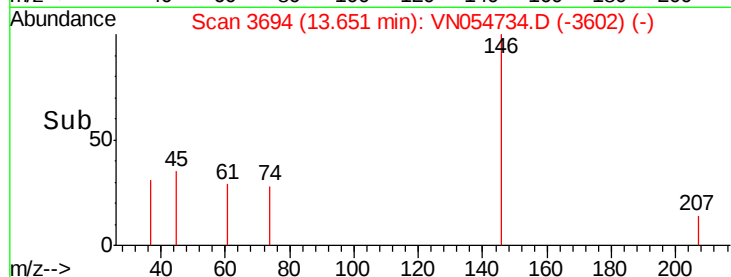
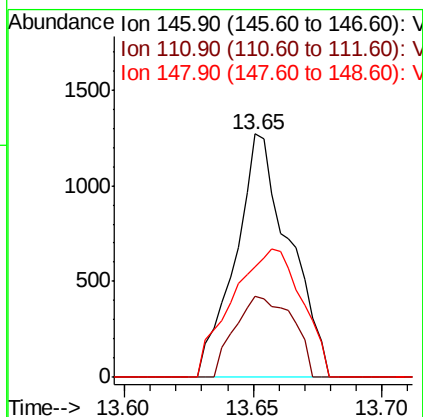
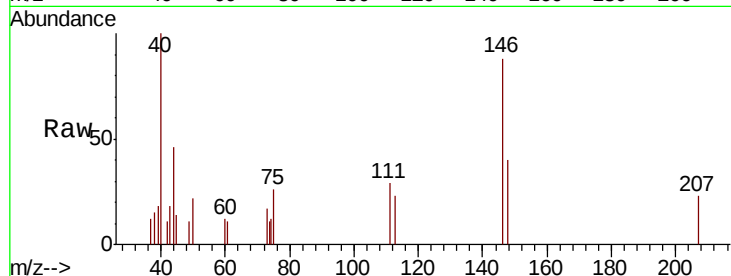




#91
 1,2-Dichlorobenzene
 Concen: 0.257 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN054734.D
 Acq: 28 Mar 2019 10:45

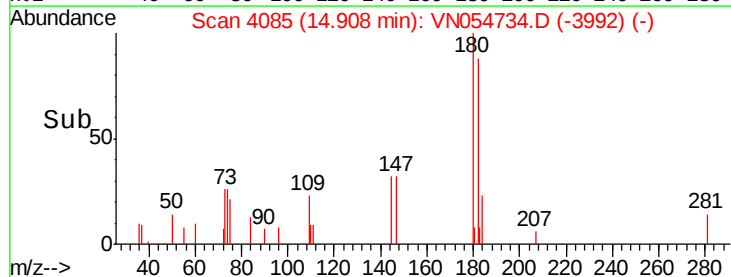
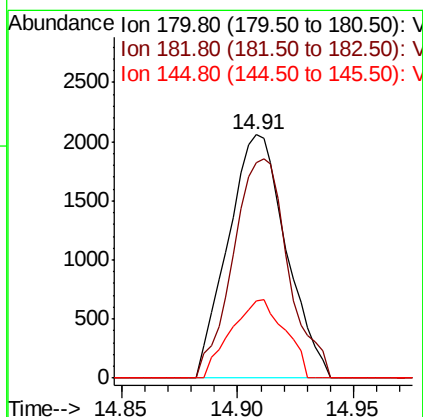
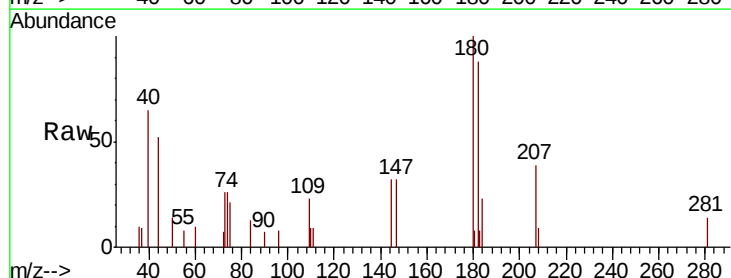
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0328WBL01

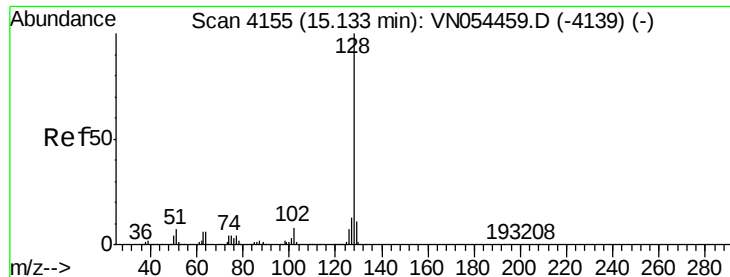
Tot Ion:146 Resp: 1855
 Ion Ratio Lower Upper
 146 100
 111 35.7 19.1 57.3
 148 68.2 32.4 97.0



#93
 1,2,4-Trichlorobenzene
 Concen: 0.996 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN054734.D
 Acq: 28 Mar 2019 10:45

Tgt Ion:180 Resp: 3581
 Ion Ratio Lower Upper
 180 100
 182 85.3 48.0 144.2
 145 29.9 14.2 42.8





#95

Naphthalene

Concen: 1.323 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN054734.D

Acq: 28 Mar 2019 10:45

Instrument :

MSVOA_N

ClientSampleId :

VN0328WBL01

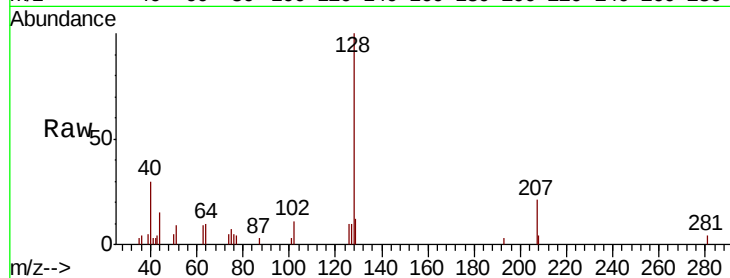
Tot Ion:128 Resp: 10606

Ion Ratio Lower Upper

128 100

127 11.4 10.1 15.1

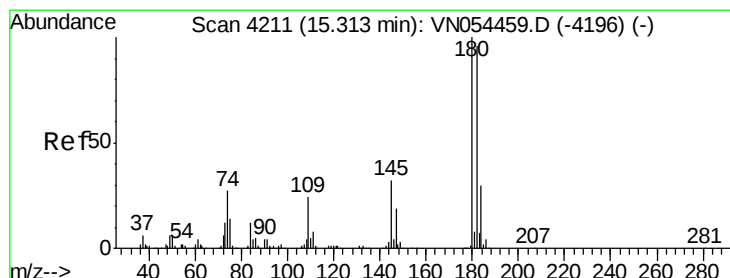
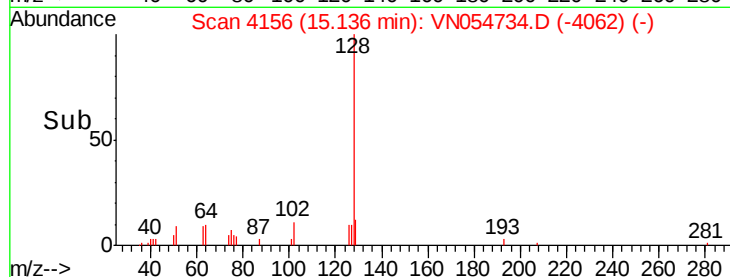
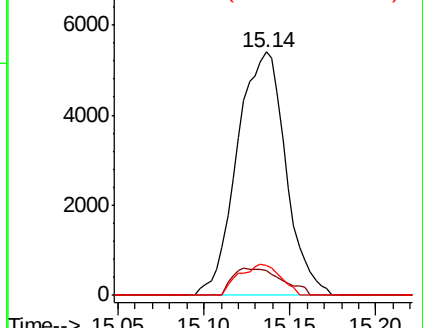
129 10.9 8.7 13.1



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



#96

1,2,3-Trichlorobenzene

Concen: 1.322 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN054734.D

Acq: 28 Mar 2019 10:45

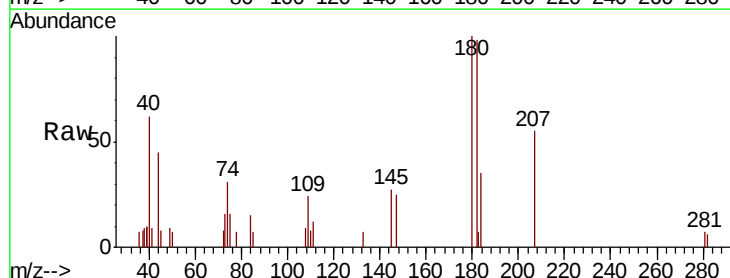
Tgt Ion:180 Resp: 4728

Ion Ratio Lower Upper

180 100

182 87.0 47.5 142.6

145 26.2 14.8 44.3



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

