

Data Path : W:\HPCHEM1\MSVOA N\DATA\VN091515\
 Data File : VN027191.D
 Acq On : 16 Sep 2015 4:52
 Operator : MD\FY
 Sample : G3629-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S39-0096

Quant Time: Sep 16 05:25:00 2015
 Quant Method : W:\HPCHEM1\MSVOA_N\METHODS\82N091515W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 15 21:12:09 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.75	168	804500	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	8.68	114	1426194	50.00	ug/l	0.00
64) Chlorobenzene-d5	11.52	117	1180139	50.00	ug/l	0.00
73) 1,4-Dichlorobenzene-d4	13.47	152	400985	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) 1,2-Dichloroethane-d4	8.12	65	772383	46.86	ug/l	0.00
Spiked Amount			Recovery	=	93.72%	
36) Dibromofluoromethane	7.68	113	512502	51.84	ug/l	0.00
Spiked Amount			Recovery	=	103.68%	
51) Toluene-d8	10.19	98	2076337	53.64	ug/l	0.00
Spiked Amount			Recovery	=	107.28%	
63) 4-Bromofluorobenzene	12.52	95	684316	49.81	ug/l	0.00
Spiked Amount			Recovery	=	99.62%	

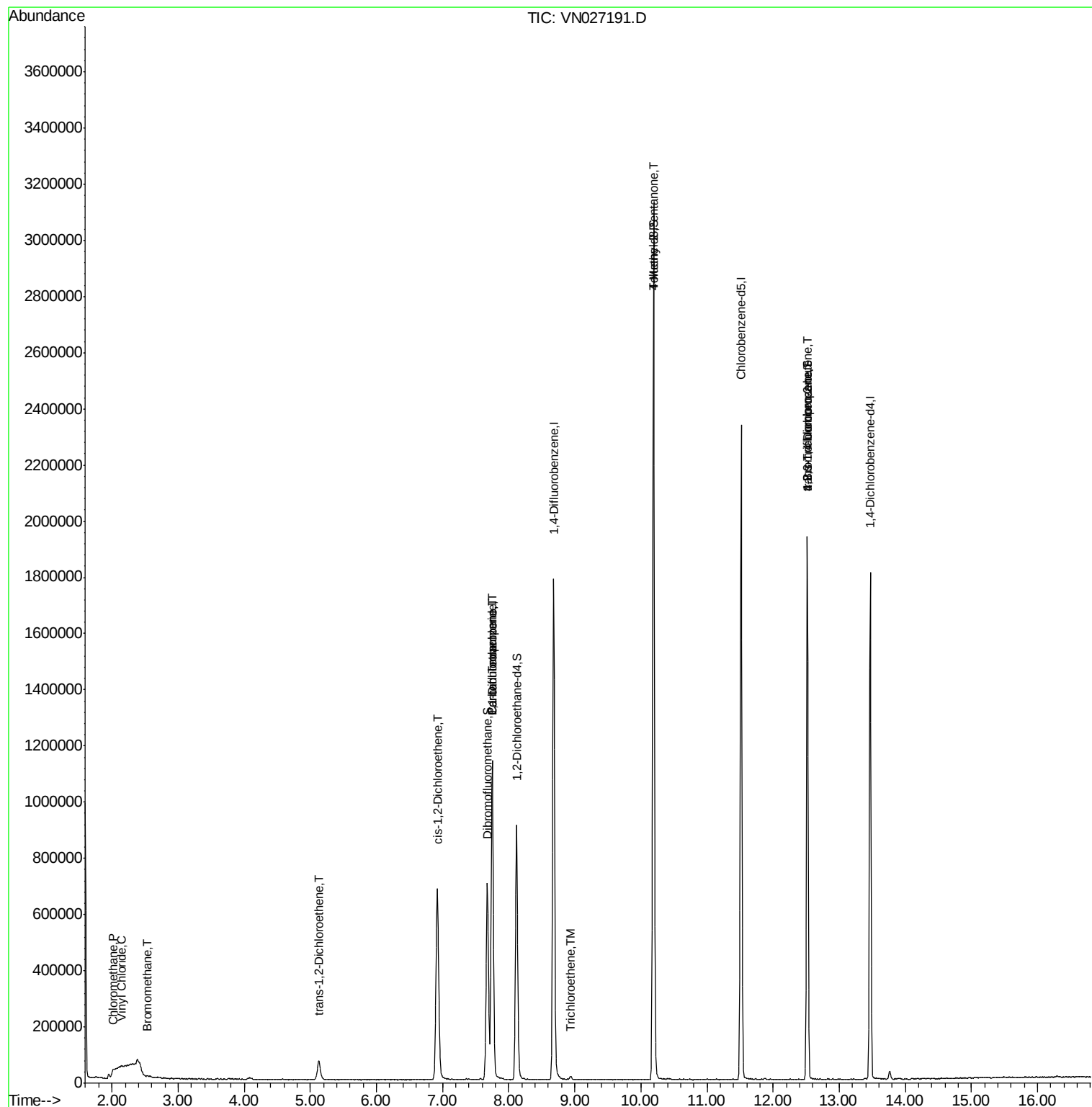
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	2.01	50	3173	1.40	ug/l #	82
5) Vinyl Chloride	2.14	62	5152	0.45	ug/l	99
6) Bromomethane	2.55	94	644	1.71	ug/l #	71
22) trans-1,2-Dichloroethene	5.13	96	42322	3.79	ug/l	93
28) cis-1,2-Dichloroethene	6.92	96	414894	32.38	ug/l	90
37) 1,1-Dichloropropene	7.75	75	84526	5.06	ug/l #	51
38) Ethyl Acetate	7.00	43	688	Below	Cal #	71
39) Carbon Tetrachloride	7.75	117	91746	5.85	ug/l #	16
45) Trichloroethene	8.94	130	3250	0.33	ug/l	94
52) 4-Methyl-2-Pentanone	10.19	43	11786	0.84	ug/l #	1
76) 1,1,2,2-Tetrachloroethane	12.63	83	192	Below	Cal #	63
77) 1,2,3-Trichloropropane	12.52	75	382518	31.56	ug/l #	1
82) trans-1,4-Dichloro-2-buten	12.52	75	382518	77.53	ug/l #	4
93) 1,2-Dibromo-3-Chloropropan	14.34	75	29	Below	Cal #	9

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.75 min Scan# 1917

Delta R.T. 0.00 min

Lab File: VN027191.D

Acq: 16 Sep 2015 4:52

Instrument :

MSVOA_N

ClientSampleId :

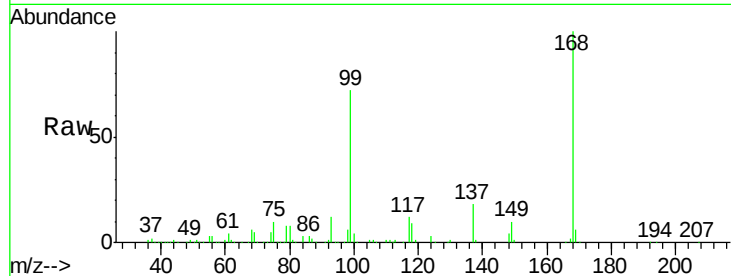
S39-0096

Tot Ion:168 Resp: 804500

Ion Ratio Lower Upper

168 100

99 72.0 50.4 75.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.75

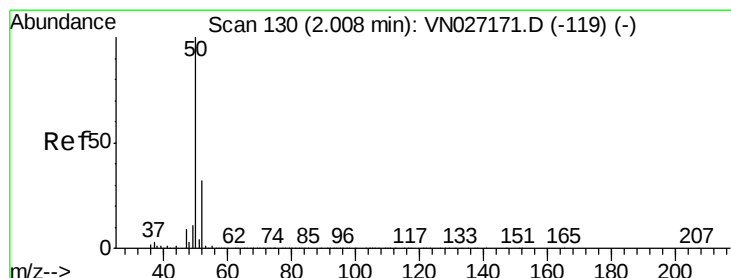
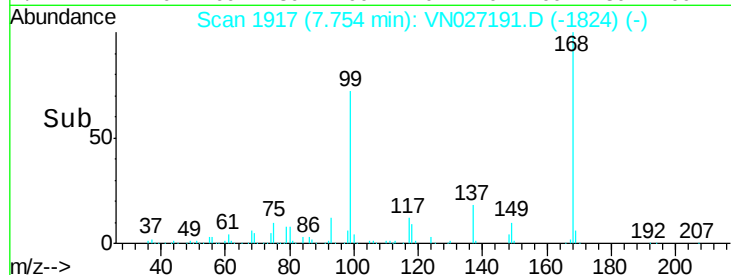
300000

200000

100000

0

Time-->



#4

Chloromethane

Concen: 1.40 ug/l

RT: 2.01 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN027191.D

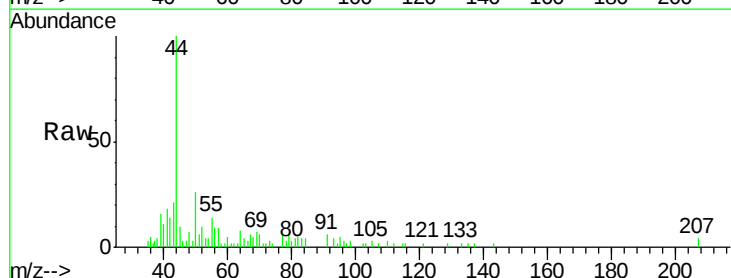
Acq: 16 Sep 2015 4:52

Tgt Ion: 50 Resp: 3173

Ion Ratio Lower Upper

50 100

52 42.4 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.01

3000

2500

2000

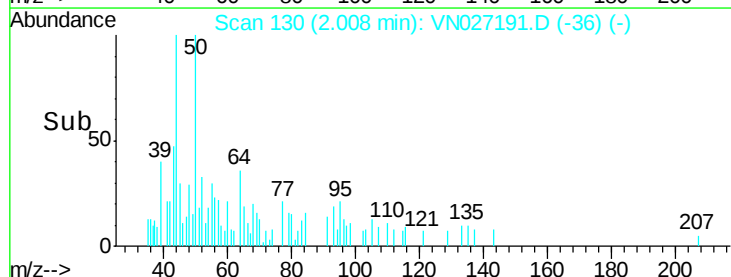
1500

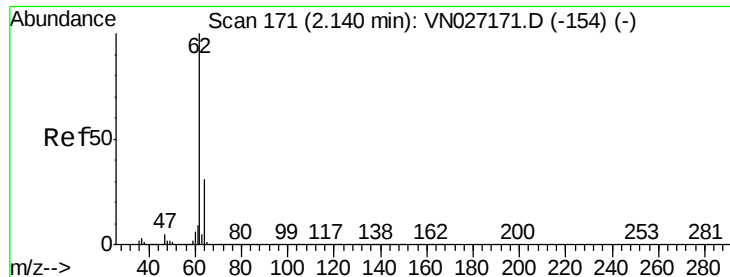
1000

500

0

Time-->





#5

Vinyl Chloride

Concen: 0.45 ug/l

RT: 2.14 min Scan# 172

Delta R.T. 0.00 min

Lab File: VN027191.D

Acq: 16 Sep 2015 4:52

Instrument :

MSVOA_N

ClientSampled :

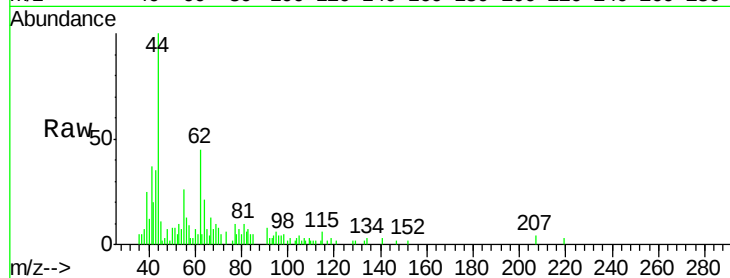
S39-0096

Tot Ion: 62 Resp: 5152

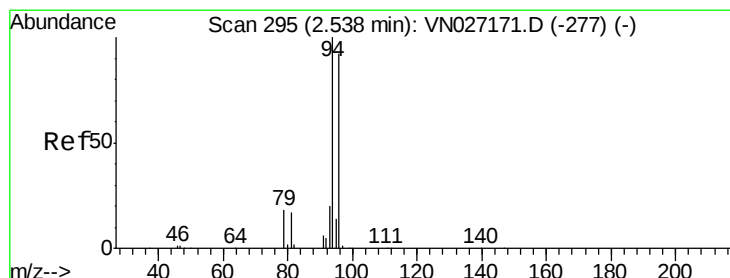
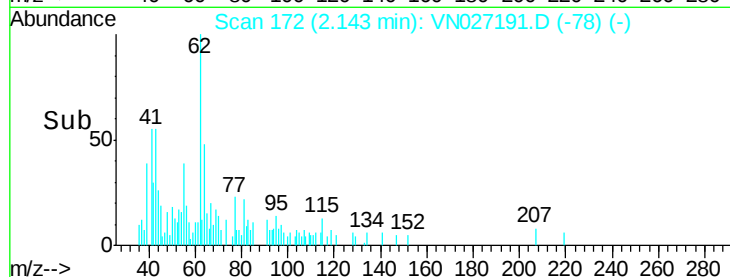
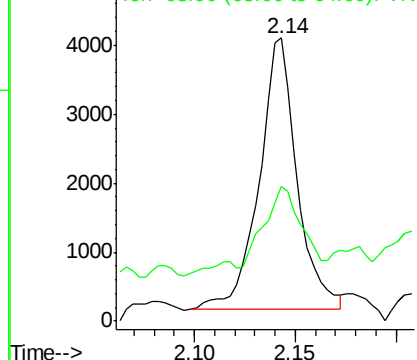
Ion Ratio Lower Upper

62 100

64 32.0 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VNO
Ion 63.90 (63.60 to 64.60): VNO



#6

Bromomethane

Concen: 1.71 ug/l

RT: 2.55 min Scan# 298

Delta R.T. 0.01 min

Lab File: VN027191.D

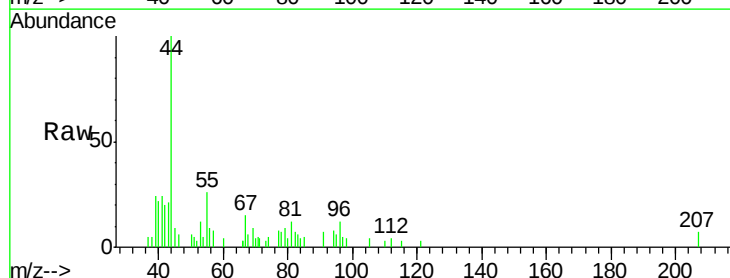
Acq: 16 Sep 2015 4:52

Tgt Ion: 94 Resp: 644

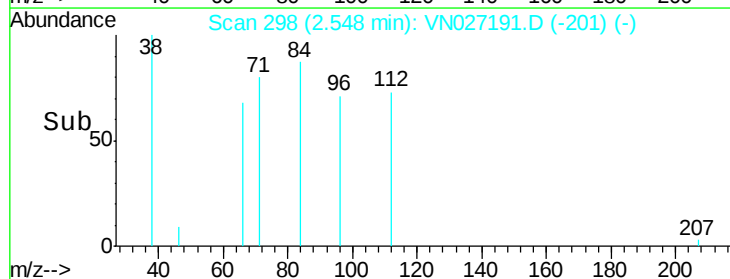
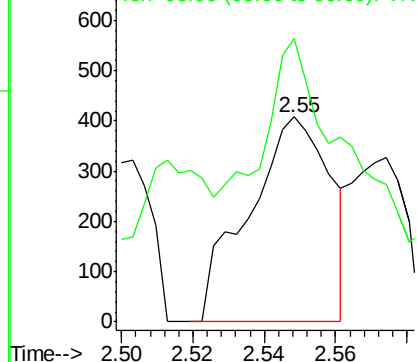
Ion Ratio Lower Upper

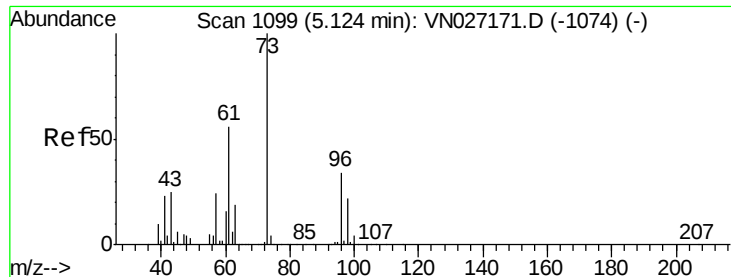
94 100

96 64.0 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VNO
Ion 95.90 (95.60 to 96.60): VNO





#22

trans-1,2-Dichloroethene

Concen: 3.79 ug/l

RT: 5.13 min Scan# 1101

Delta R.T. 0.01 min

Lab File: VN027191.D

Acq: 16 Sep 2015 4:52

Instrument :

MSVOA_N

ClientSampleId :

S39-0096

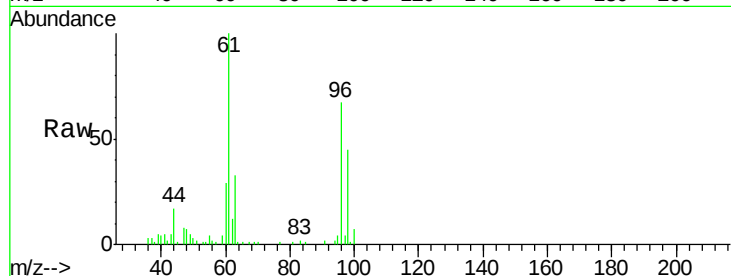
Tot Ion: 96 Resp: 42322

Ion Ratio Lower Upper

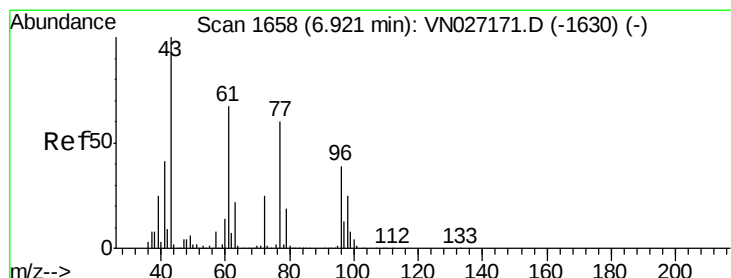
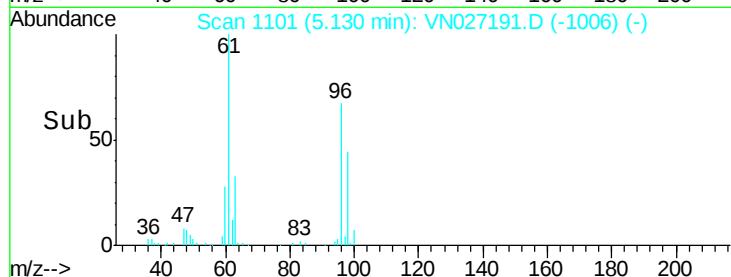
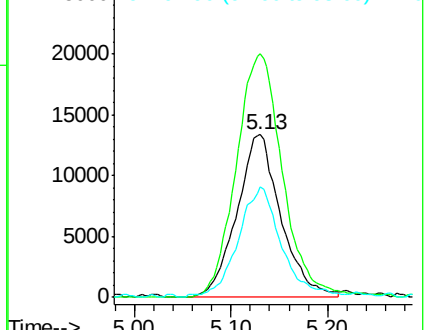
96 100

61 149.6 126.6 189.8

98 65.9 47.4 71.2



Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0



#28

cis-1,2-Dichloroethene

Concen: 32.38 ug/l

RT: 6.92 min Scan# 1658

Delta R.T. 0.00 min

Lab File: VN027191.D

Acq: 16 Sep 2015 4:52

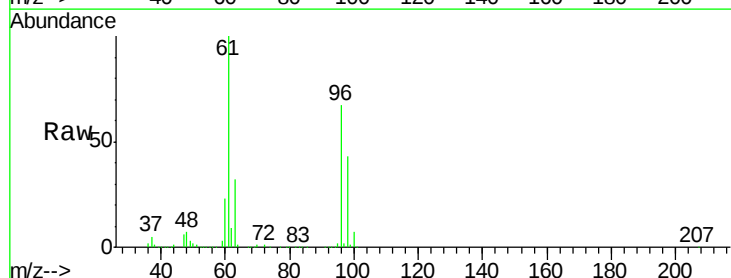
Tgt Ion: 96 Resp: 414894

Ion Ratio Lower Upper

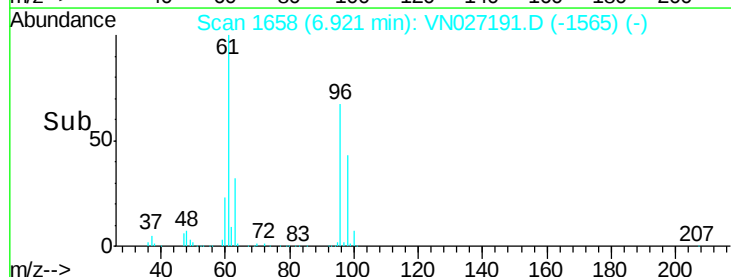
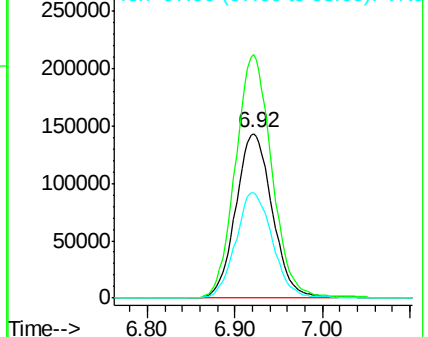
96 100

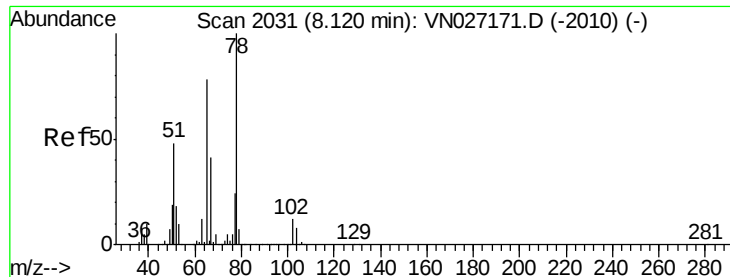
61 147.9 0.0 329.2

98 64.8 0.0 126.0



Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0





#34

1,2-Dichloroethane-d4

Concen: 46.86 ug/l

RT: 8.12 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VN027191.D

Acq: 16 Sep 2015 4:52

Instrument :

MSVOA_N

ClientSampleId :

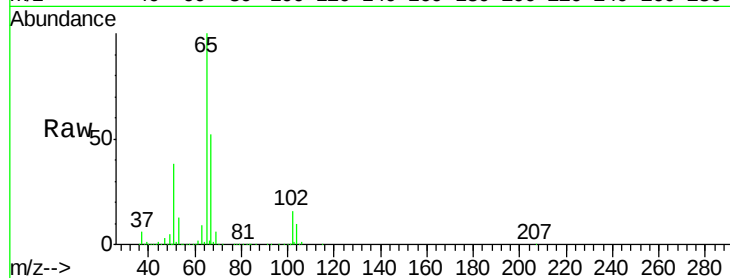
S39-0096

Tot Ion: 65 Resp: 772383

Ion Ratio Lower Upper

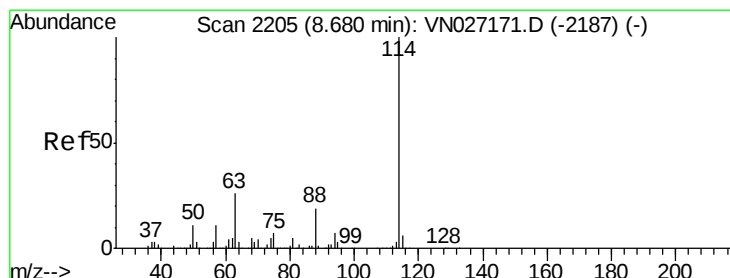
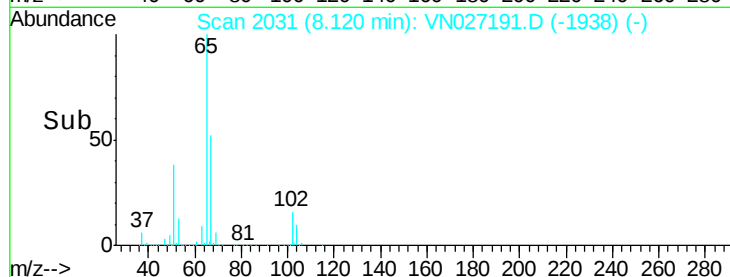
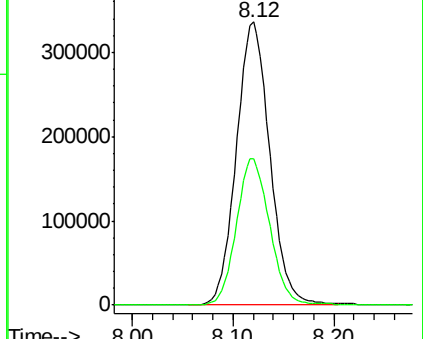
65 100

67 51.1 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



#35

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.68 min Scan# 2205

Delta R.T. 0.00 min

Lab File: VN027191.D

Acq: 16 Sep 2015 4:52

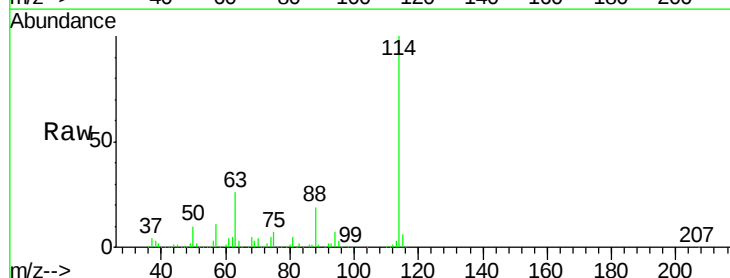
Tgt Ion: 114 Resp: 1426194

Ion Ratio Lower Upper

114 100

63 26.0 0.0 48.8

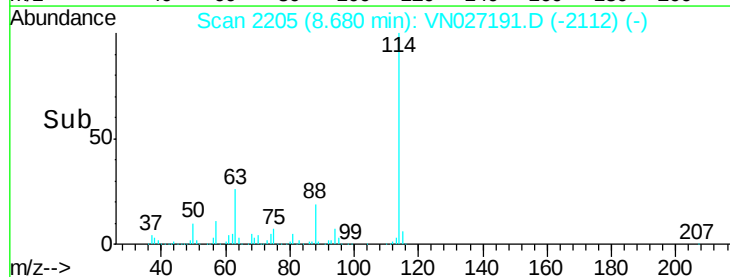
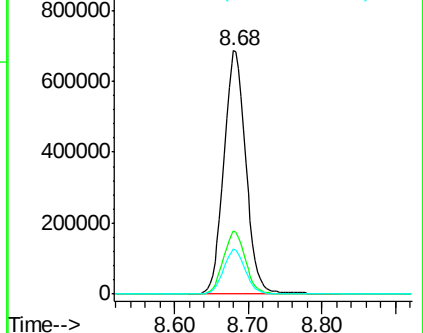
88 18.5 0.0 32.2

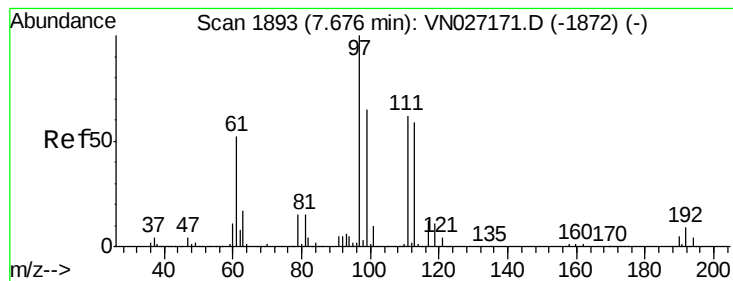


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0





#36

Dibromofluoromethane

Concen: 51.84 ug/l

RT: 7.68 min Scan# 1893

Delta R.T. 0.00 min

Lab File: VN027191.D

Acq: 16 Sep 2015 4:52

Instrument :

MSVOA_N

ClientSampled :

S39-0096

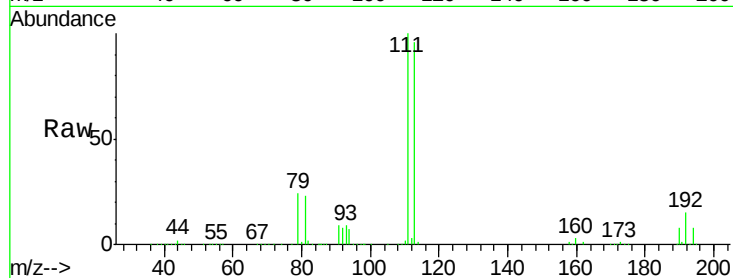
Tot Ion:113 Resp: 512502

Ion Ratio Lower Upper

113 100

111 105.4 83.0 124.4

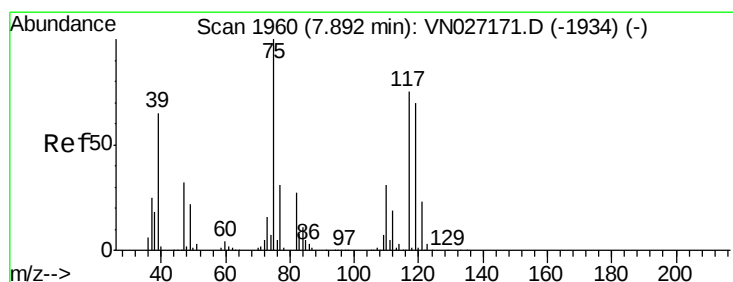
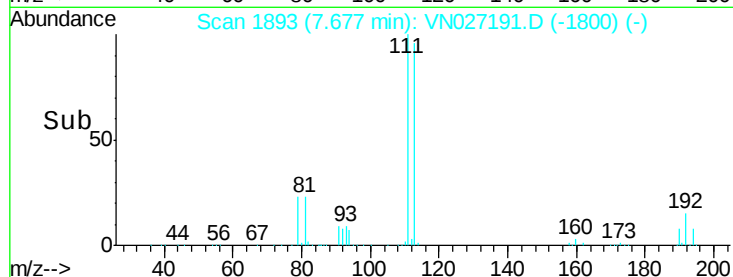
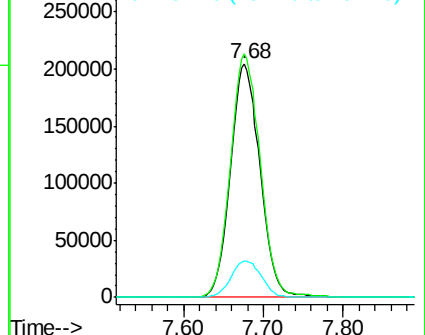
192 16.1 14.1 21.1



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



#37

1,1-Dichloropropene

Concen: 5.06 ug/l

RT: 7.75 min Scan# 1916

Delta R.T. -0.14 min

Lab File: VN027191.D

Acq: 16 Sep 2015 4:52

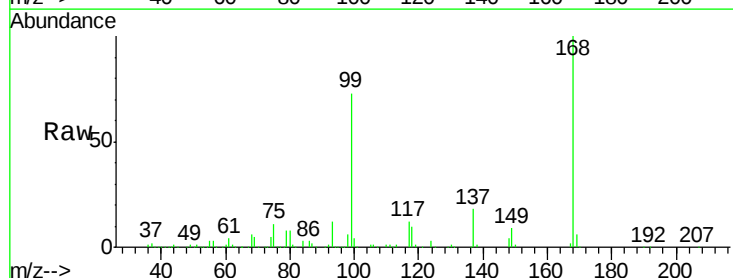
Tgt Ion: 75 Resp: 84526

Ion Ratio Lower Upper

75 100

110 8.2 15.9 47.7#

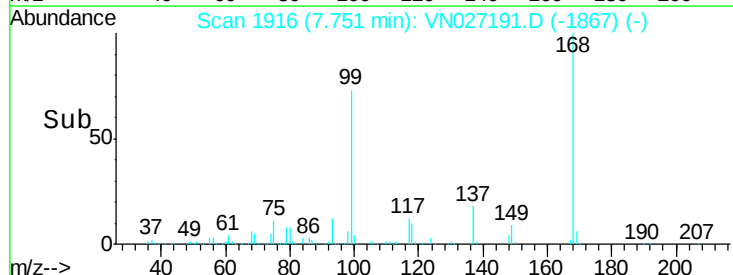
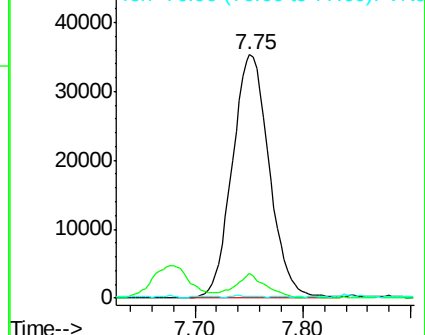
77 0.6 24.9 37.3#

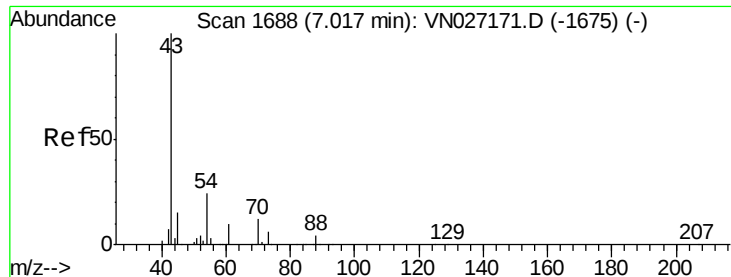


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

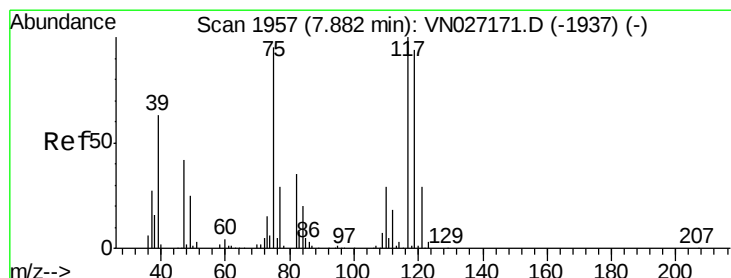
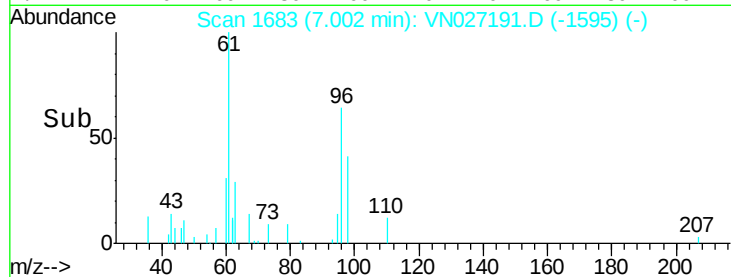
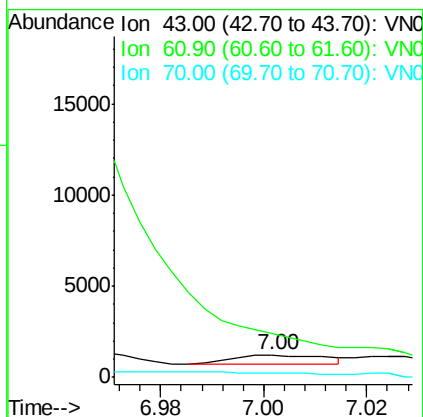
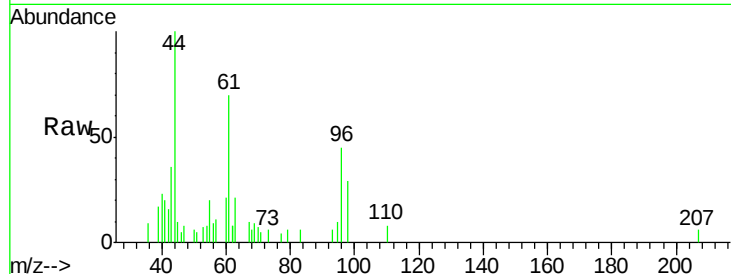




#38
Ethyl Acetate
Concen: Below Cal
RT: 7.00 min Scan# 1683
Delta R.T. -0.02 min
Lab File: VN027191.D
Acq: 16 Sep 2015 4:52

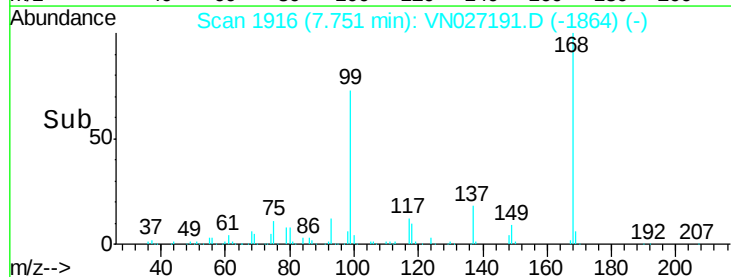
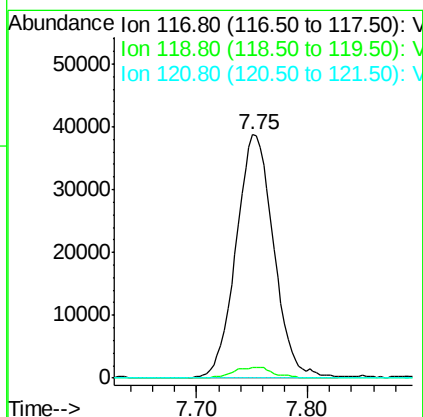
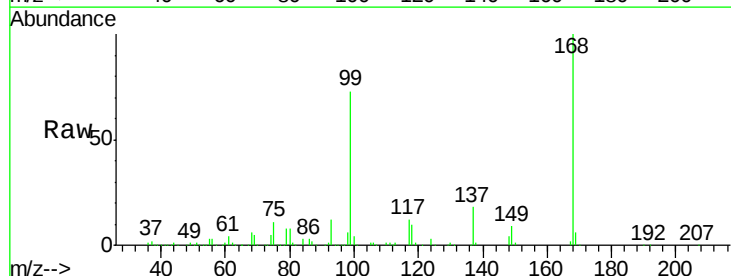
Instrument :
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S39-0096

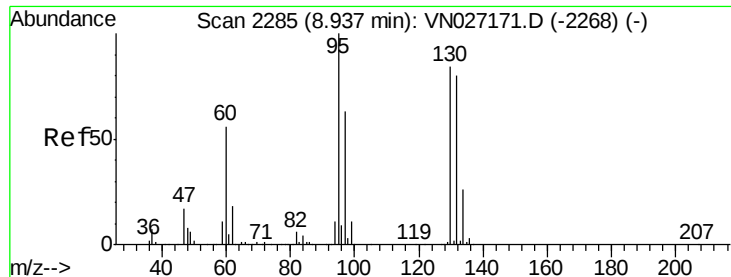
Tot Ion: 43 Resp: 688
Ion Ratio Lower Upper
43 100
61 0.0 10.2 15.4#
70 0.0 7.4 11.0#



#39
Carbon Tetrachloride
Concen: 5.85 ug/l
RT: 7.75 min Scan# 1916
Delta R.T. -0.13 min
Lab File: VN027191.D
Acq: 16 Sep 2015 4:52

Tgt Ion: 117 Resp: 91746
Ion Ratio Lower Upper
117 100
119 4.4 75.3 112.9#
121 0.4 23.8 35.8#





#45

Trichloroethene

Concen: 0.33 ug/l

RT: 8.94 min Scan# 2286

Delta R.T. 0.00 min

Lab File: VN027191.D

Acq: 16 Sep 2015 4:52

Instrument :

MSVOA_N

ClientSampleId :

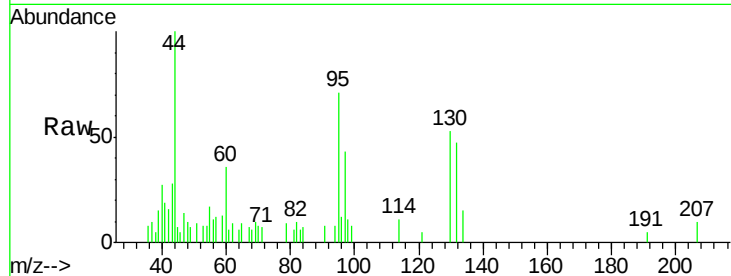
S39-0096

Tot Ion:130 Resp: 3250

Ion Ratio Lower Upper

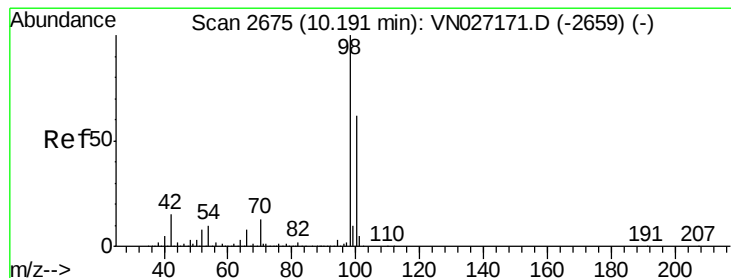
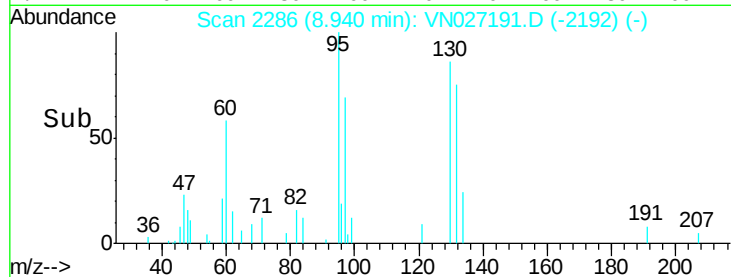
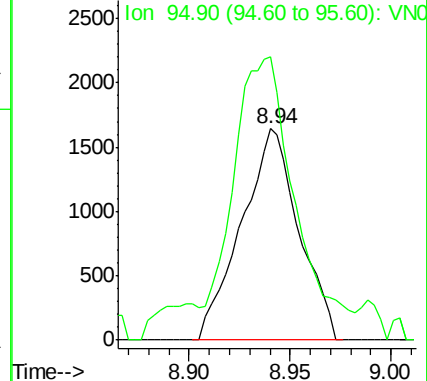
130 100

95 117.2 0.0 222.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN



#51

Toluene-d8

Concen: 53.64 ug/l

RT: 10.19 min Scan# 2675

Delta R.T. 0.00 min

Lab File: VN027191.D

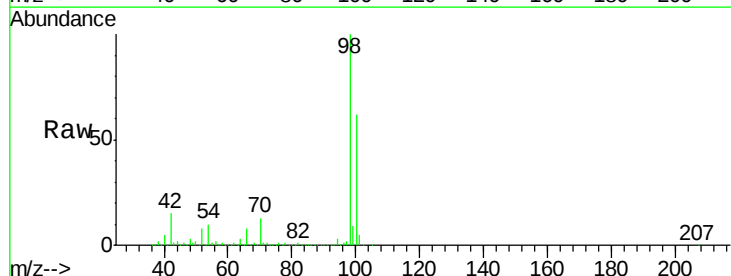
Acq: 16 Sep 2015 4:52

Tgt Ion: 98 Resp: 2076337

Ion Ratio Lower Upper

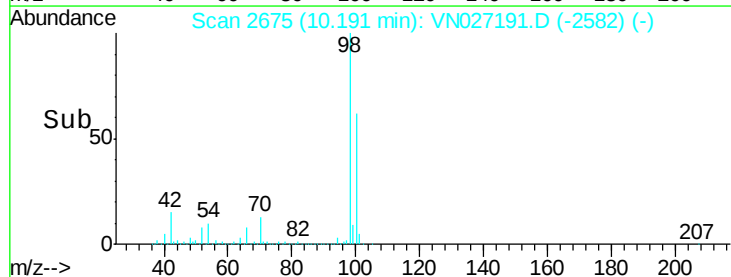
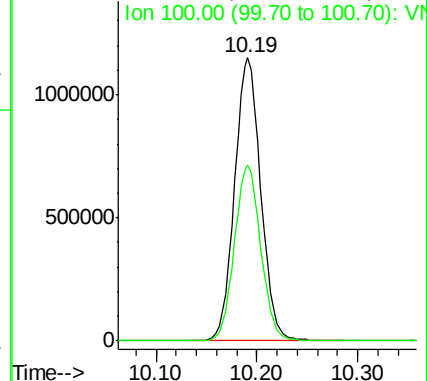
98 100

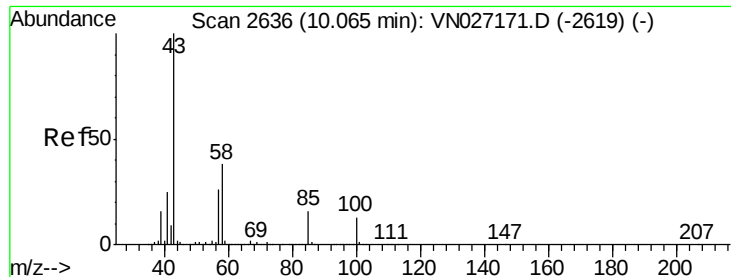
100 62.5 50.5 75.7



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#52

4-Methyl-2-Pentanone

Concen: 0.84 ug/l

RT: 10.19 min Scan# 2675

Delta R.T. 0.13 min

Lab File: VN027191.D

Acq: 16 Sep 2015 4:52

Instrument :

MSVOA_N

ClientSampleId :

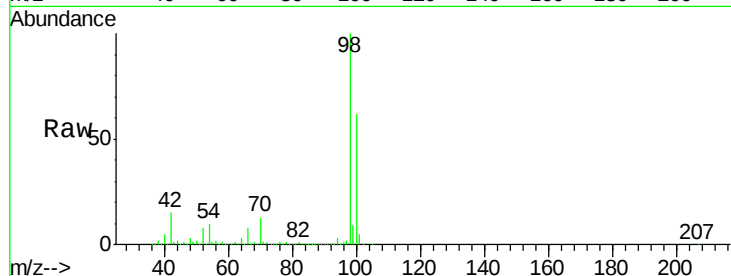
S39-0096

Tot Ion: 43 Resp: 11786

Ion Ratio Lower Upper

43 100

58 171.5 29.8 44.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

12000

10000

8000

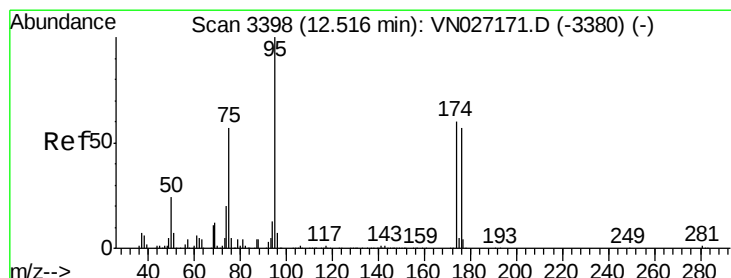
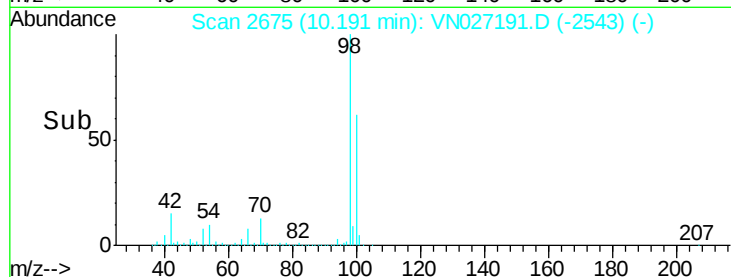
6000

4000

2000

0

Time-->



#63

4-Bromofluorobenzene

Concen: 49.81 ug/l

RT: 12.52 min Scan# 3398

Delta R.T. 0.00 min

Lab File: VN027191.D

Acq: 16 Sep 2015 4:52

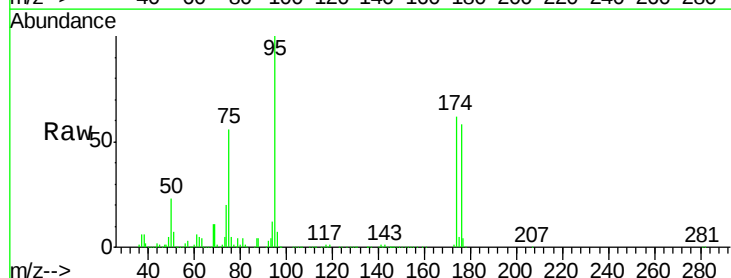
Tgt Ion: 95 Resp: 684316

Ion Ratio Lower Upper

95 100

174 62.1 0.0 137.0

176 59.9 0.0 130.8



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

500000

400000

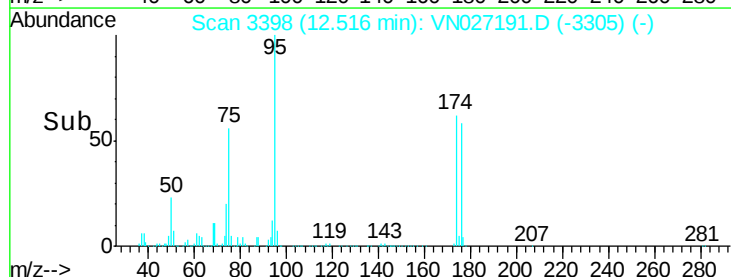
300000

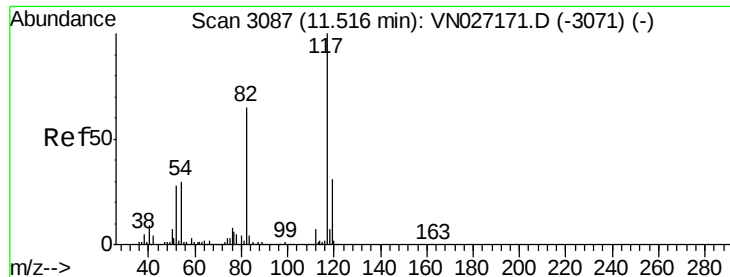
200000

100000

0

Time-->

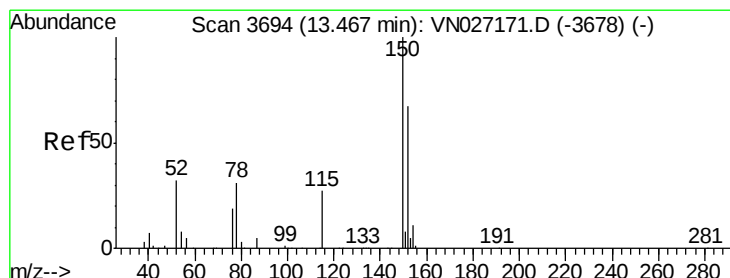
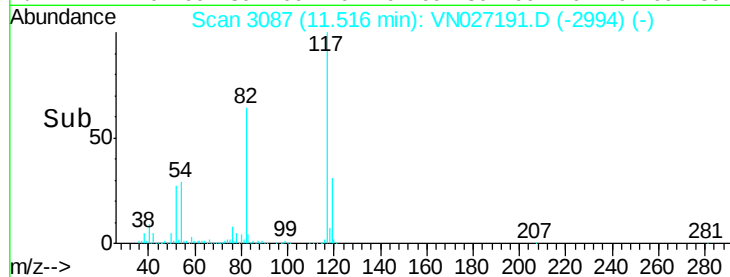
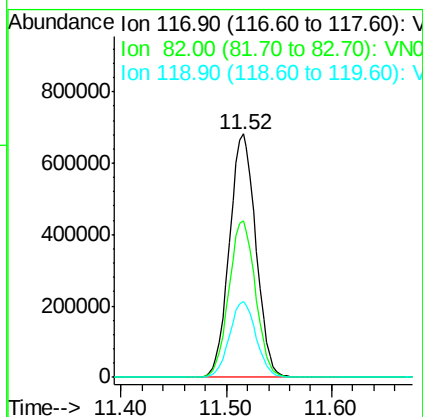
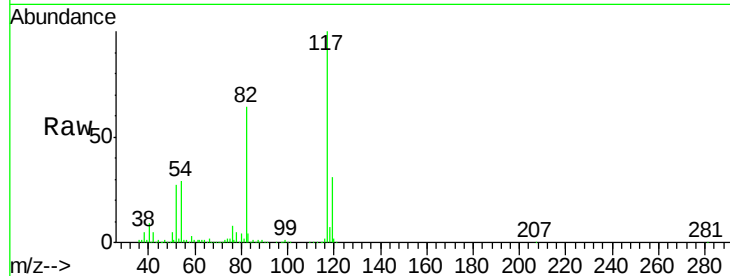




#64
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.52 min Scan# 3087
Delta R.T. 0.00 min
Lab File: VN027191.D
Acq: 16 Sep 2015 4:52

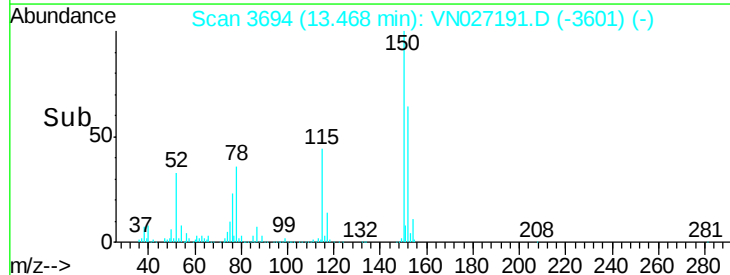
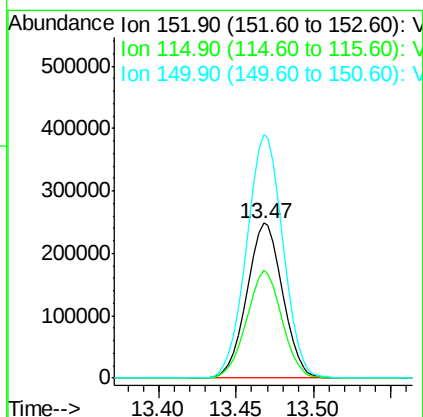
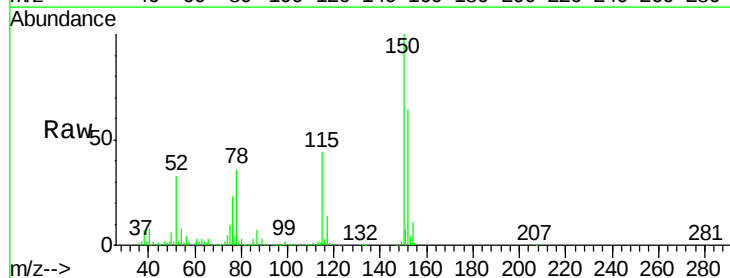
Instrument :
MSVOA_N
ClientSampleId :
S39-0096

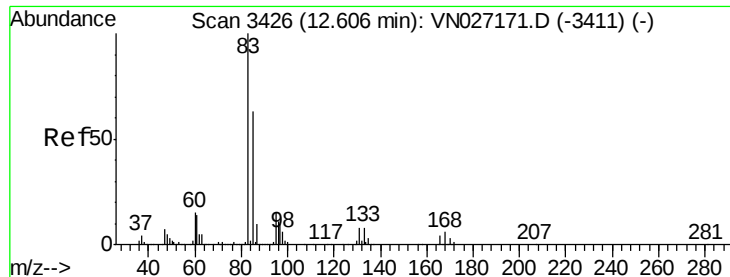
Tot Ion:117 Resp: 1180139
Ion Ratio Lower Upper
117 100
82 64.0 49.6 74.4
119 30.9 24.6 36.8



#73
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.47 min Scan# 3694
Delta R.T. 0.00 min
Lab File: VN027191.D
Acq: 16 Sep 2015 4:52

Tgt Ion:152 Resp: 400985
Ion Ratio Lower Upper
152 100
115 68.6 30.8 92.3
150 159.9 0.0 345.0





#76

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.63 min Scan# 3434

Delta R.T. 0.03 min

Lab File: VN027191.D

Acq: 16 Sep 2015 4:52

Instrument :

MSVOA_N

ClientSampleId :

S39-0096

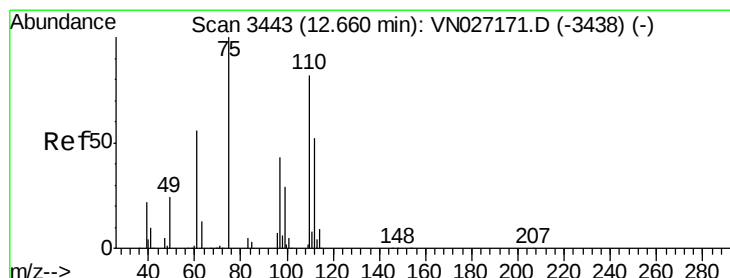
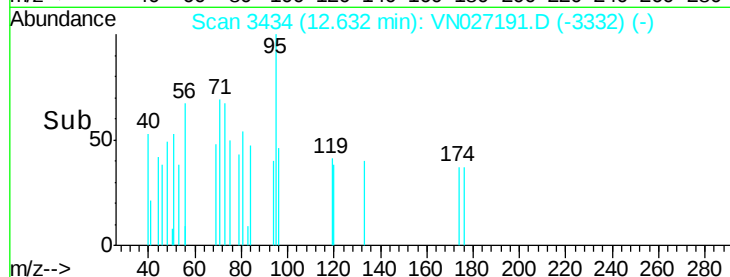
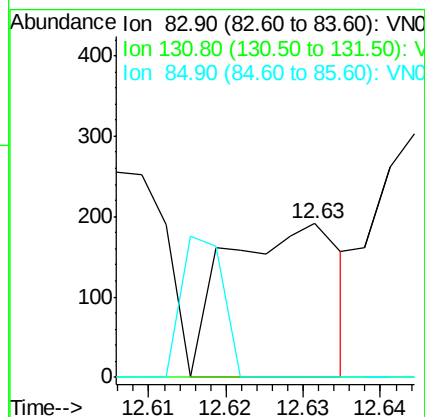
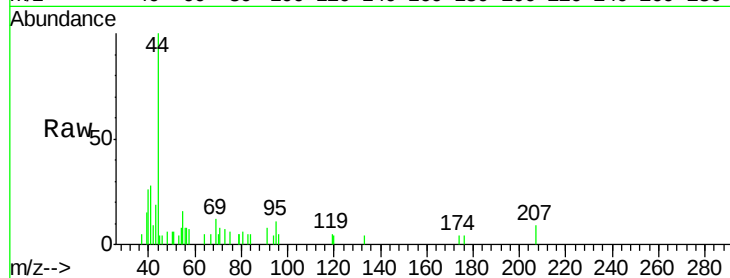
Tot Ion: 83 Resp: 192

Ion Ratio Lower Upper

83 100

131 0.0 4.1 12.3#

85 33.9 31.9 95.7



#77

1,2,3-Trichloropropane

Concen: 31.56 ug/l

RT: 12.52 min Scan# 3398

Delta R.T. -0.14 min

Lab File: VN027191.D

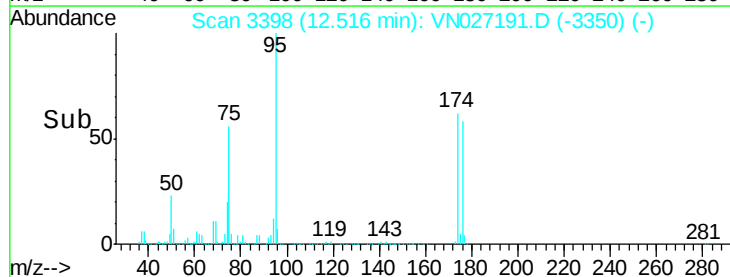
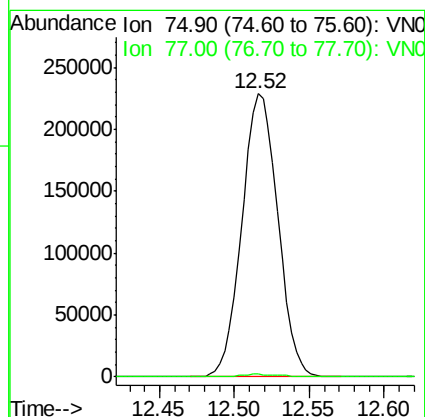
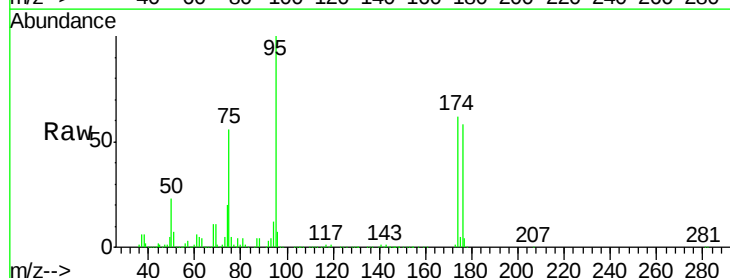
Acq: 16 Sep 2015 4:52

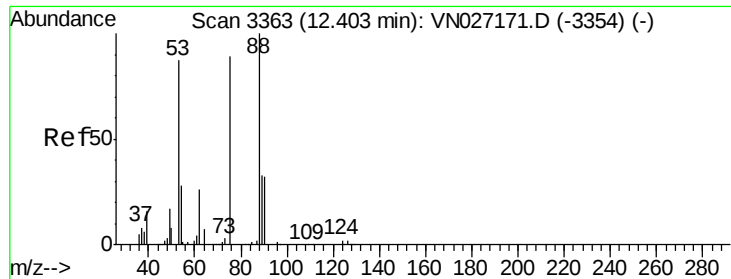
Tgt Ion: 75 Resp: 382518

Ion Ratio Lower Upper

75 100

77 1.3 103.1 309.3#





#82

trans-1,4-Dichloro-2-butene

Concen: 77.53 ug/l

RT: 12.52 min Scan# 3398

Delta R.T. 0.11 min

Lab File: VN027191.D

Acq: 16 Sep 2015 4:52

Instrument :

MSVOA_N

ClientSampleId :

S39-0096

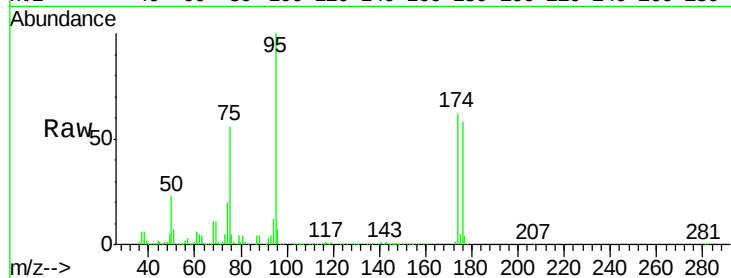
Tot Ion: 75 Resp: 382518

Ion Ratio Lower Upper

75 100

53 0.0 92.9 139.3#

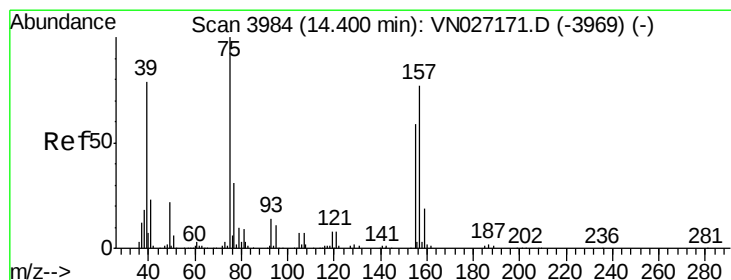
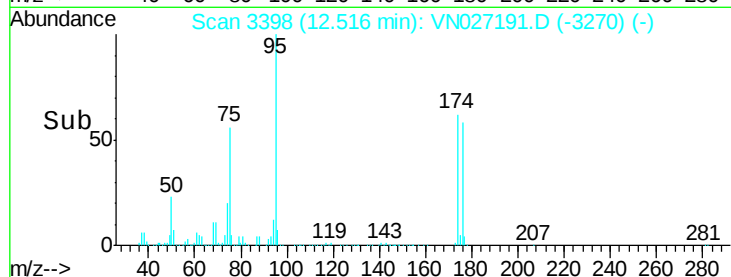
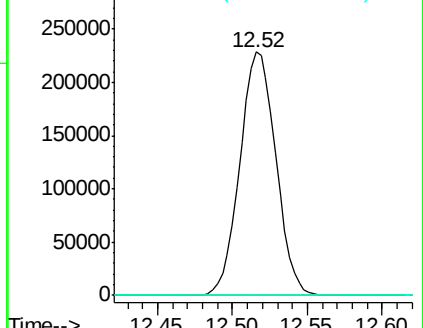
89 0.0 34.2 51.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#93

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.34 min Scan# 3966

Delta R.T. -0.06 min

Lab File: VN027191.D

Acq: 16 Sep 2015 4:52

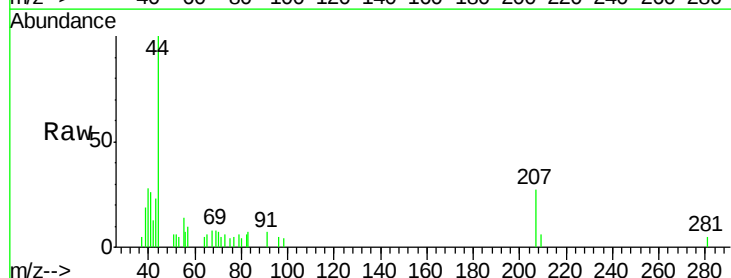
Tgt Ion: 75 Resp: 29

Ion Ratio Lower Upper

75 100

155 0.0 35.6 106.9#

157 0.0 44.6 133.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

