

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032119\
 Data File : VN054523.D
 Acq On : 21 Mar 2019 20:45
 Operator : JC/SP
 Sample : K2019-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OUTFALL001-190319

Quant Time: Mar 22 10:17:56 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	445159	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	825489	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	866184	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	323442	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	313194	56.56	ug/l	0.00
Spiked Amount			Recovery	=	113.12%	
35) Dibromofluoromethane	7.59	113	263081	49.47	ug/l	0.00
Spiked Amount			Recovery	=	98.94%	
50) Toluene-d8	10.09	98	1077282	53.88	ug/l	0.00
Spiked Amount			Recovery	=	107.76%	
62) 4-Bromofluorobenzene	12.40	95	403868	59.36	ug/l	0.00
Spiked Amount			Recovery	=	118.72%	

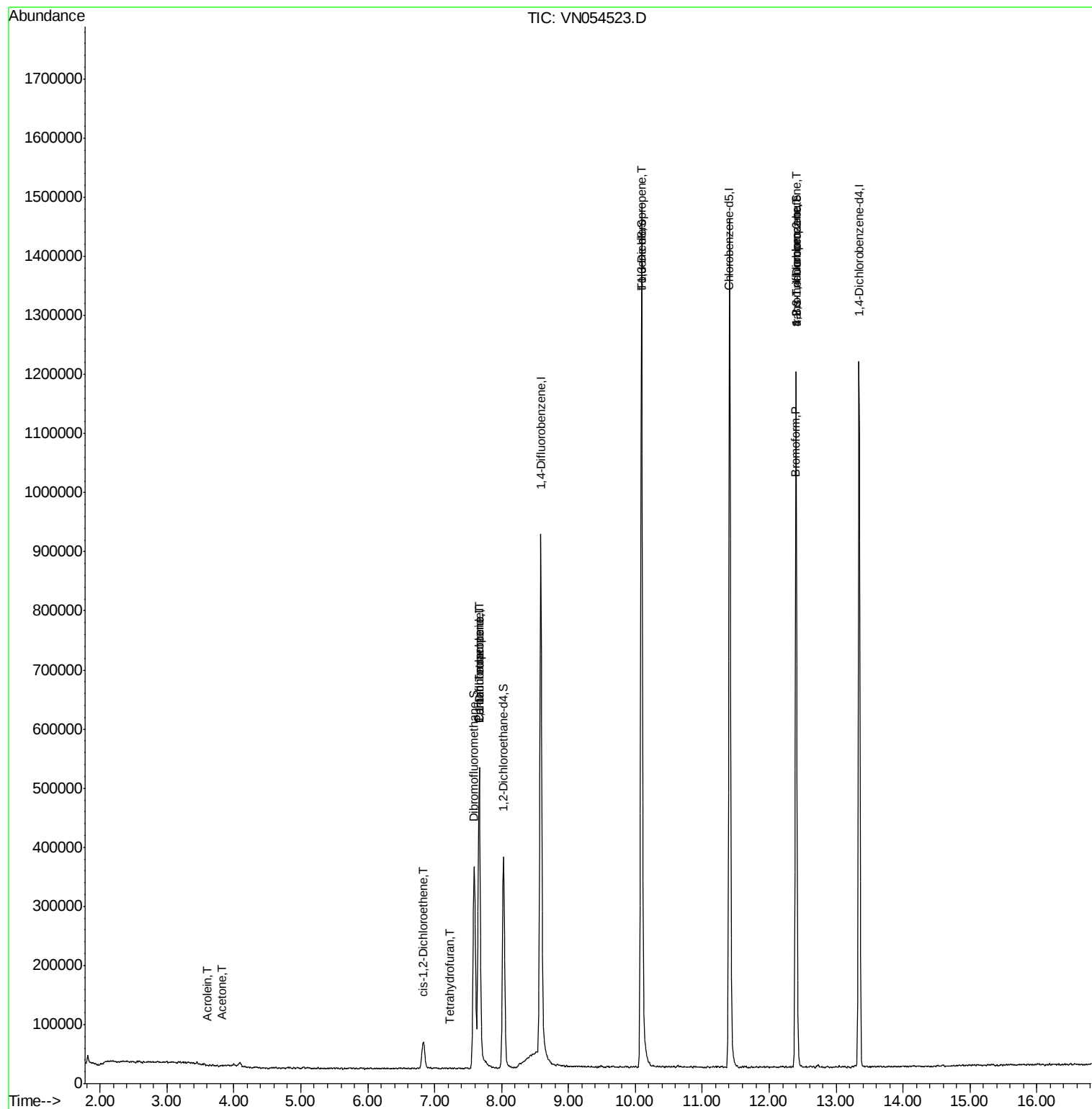
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	358	0.774	ug/l #	53
16) Acetone	3.81	43	811	0.487	ug/l #	86
27) cis-1,2-Dichloroethene	6.83	96	28860	5.519	ug/l	93
29) Tetrahydrofuran	7.22	42	292	0.211	ug/l #	30
31) Cyclohexane	7.67	56	8896	Below Cal	#	13
36) 1,1-Dichloropropene	7.66	75	31388	4.067	ug/l #	48
38) Carbon Tetrachloride	7.66	117	40130	5.350	ug/l #	17
53) t-1,3-Dichloropropene	10.09	75	139	2.249	ug/l #	42
71) Bromoform	12.38	173	228	2.270	ug/l #	28
76) 1,2,3-Trichloropropane	12.40	75	202455	39.445	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	202455	130.528	ug/l #	11

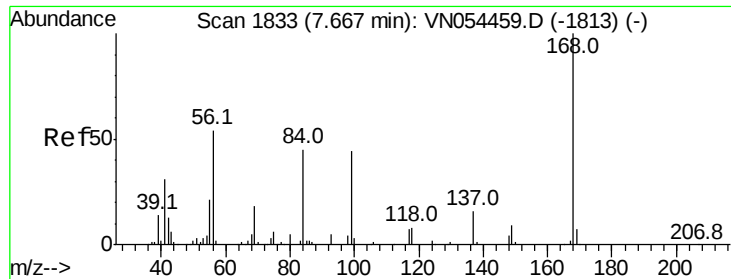
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN032119\
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054523.D

Acq: 21 Mar 2019 20:45

Instrument :

MSVOA_N

ClientSampleId :

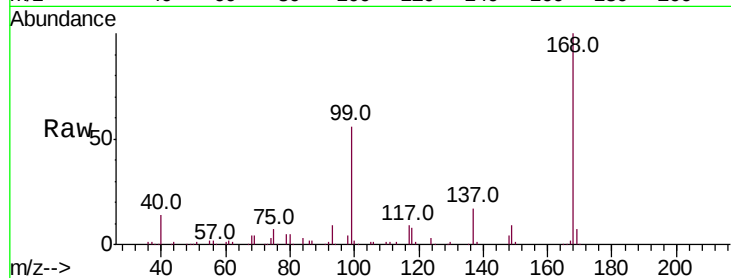
OUTFALL001-190319

Tot Ion:168 Resp: 445159

Ion Ratio Lower Upper

168 100

99 55.7 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): VN054459.D

Ion 98.90 (98.60 to 99.60): VN054459.D

7.67

150000

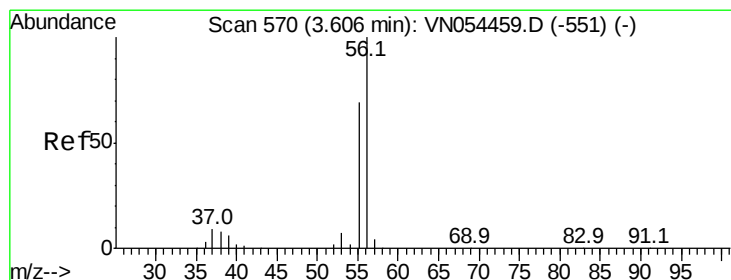
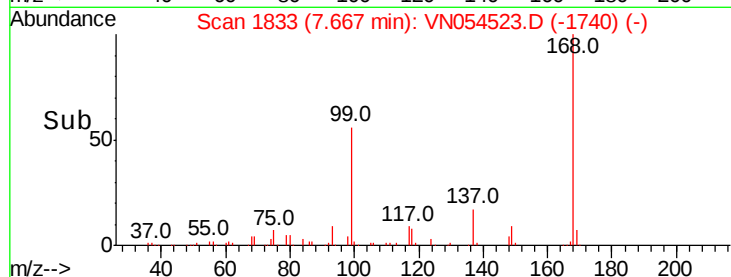
100000

50000

0

7.60 7.70 7.80

Time-->



#13

Acrolein

Concen: 0.774 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN054523.D

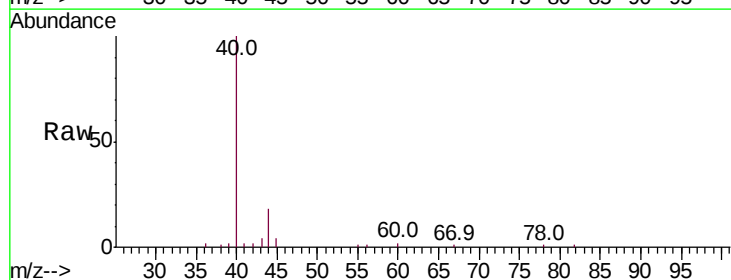
Acq: 21 Mar 2019 20:45

Tgt Ion: 56 Resp: 358

Ion Ratio Lower Upper

56 100

55 109.5 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN054459.D

Ion 55.00 (54.70 to 55.70): VN054459.D

3.61

400

300

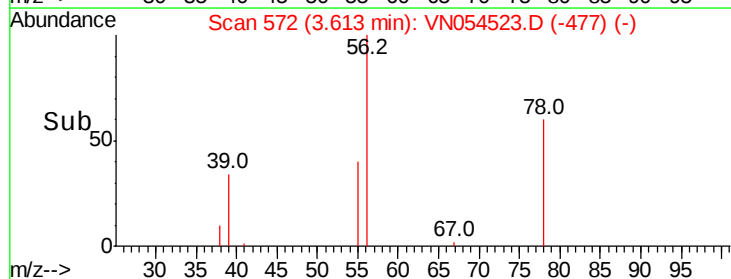
200

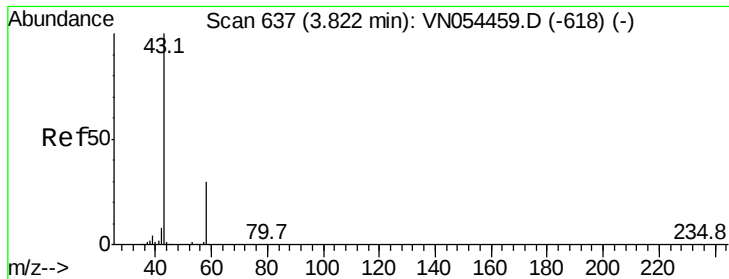
100

0

3.58 3.60 3.62

Time-->





#16

Acetone

Concen: 0.487 ug/l

RT: 3.81 min Scan# 634

Delta R.T. -0.01 min

Lab File: VN054523.D

Acq: 21 Mar 2019 20:45

Instrument :

MSVOA_N

ClientSampleId :

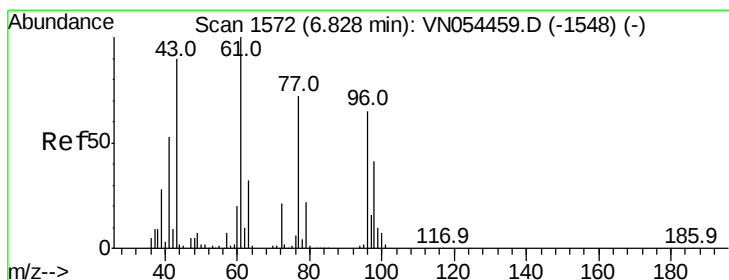
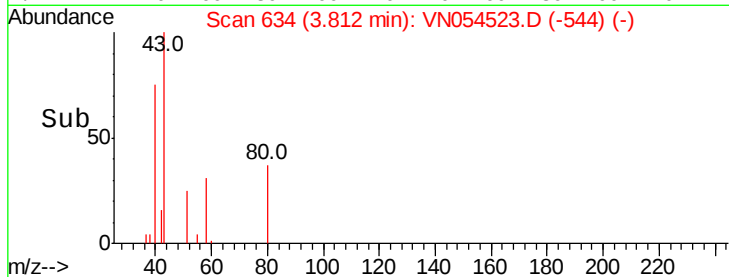
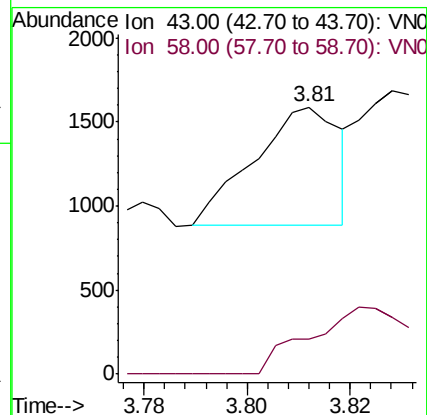
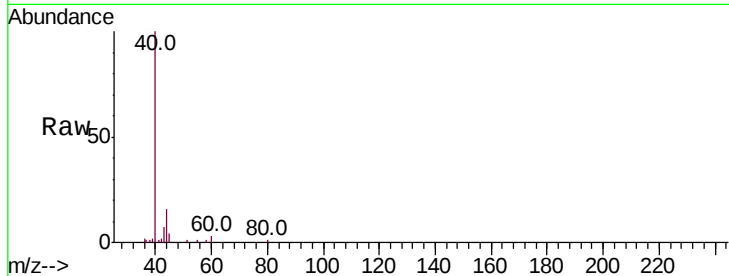
OUTFALL001-190319

Tot Ion: 43 Resp: 811

Ion Ratio Lower Upper

43 100

58 29.2 29.9 44.9#



#27

cis-1,2-Dichloroethene

Concen: 5.519 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN054523.D

Acq: 21 Mar 2019 20:45

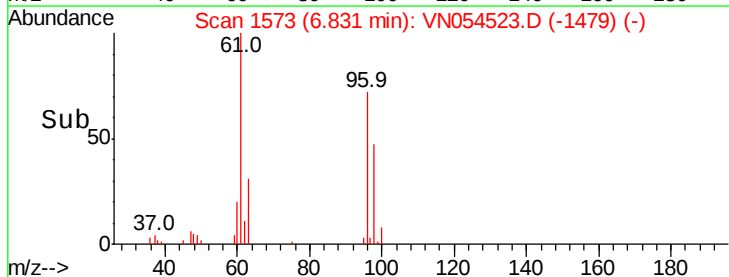
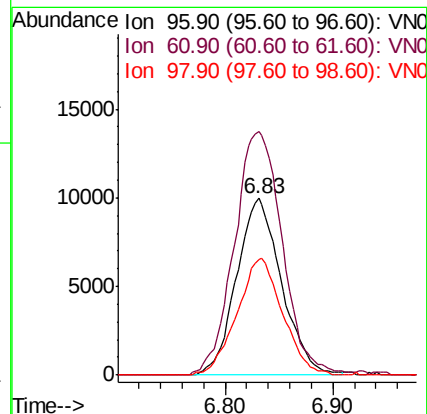
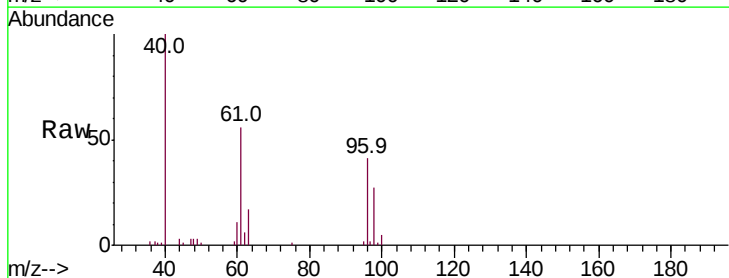
Tgt Ion: 96 Resp: 28860

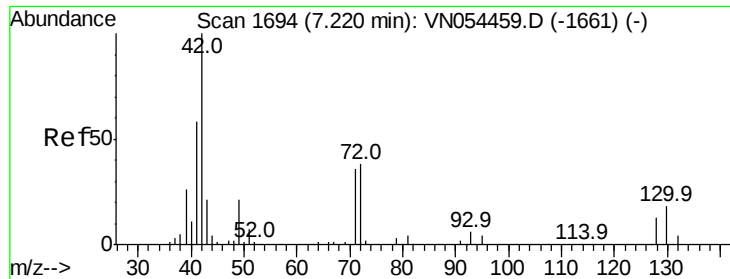
Ion Ratio Lower Upper

96 100

61 147.2 0.0 273.0

98 66.9 0.0 130.6





#29

Tetrahydrofuran

Concen: 0.211 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.00 min

Lab File: VN054523.D

Acq: 21 Mar 2019 20:45

Instrument :

MSVOA_N

ClientSampleId :

OUTFALL001-190319

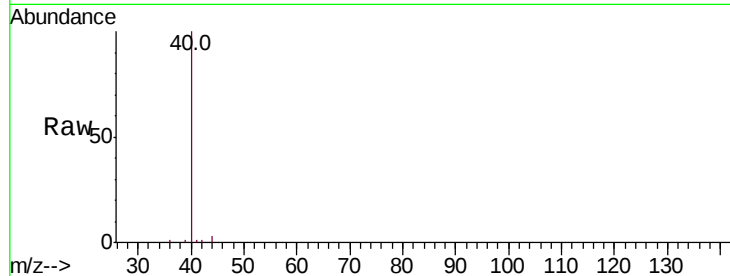
Tot Ion: 42 Resp: 292

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

7.22

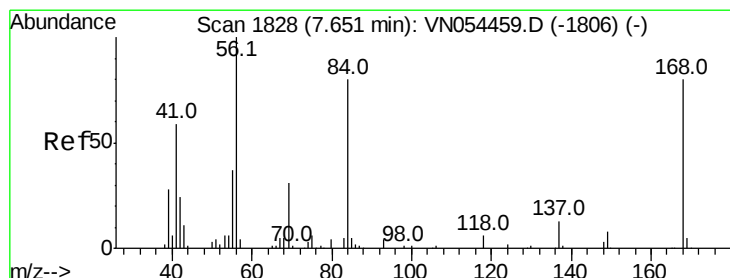
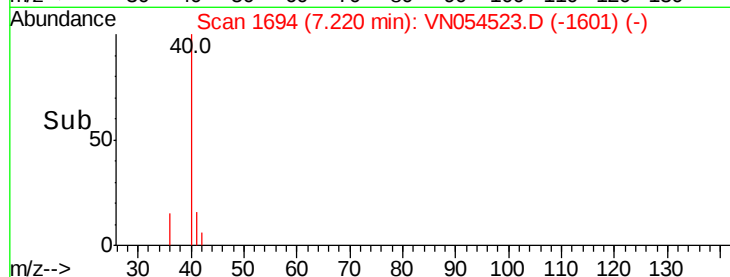
200

100

0

7.20 7.22 7.24

Time-->



#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN054523.D

Acq: 21 Mar 2019 20:45

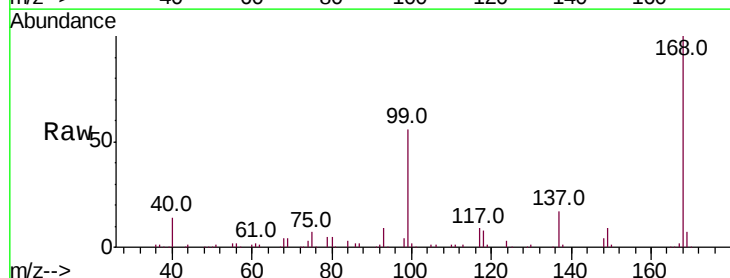
Tgt Ion: 56 Resp: 8896

Ion Ratio Lower Upper

56 100

69 168.2 27.8 41.6#

84 125.5 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

7.67

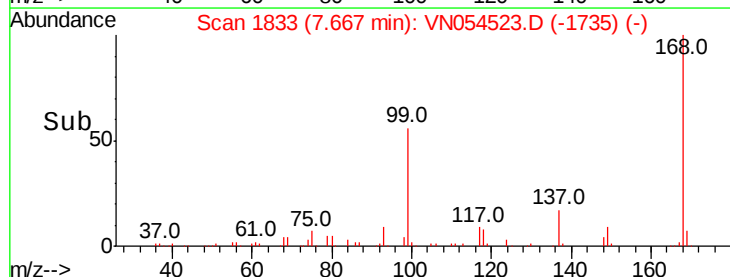
4000

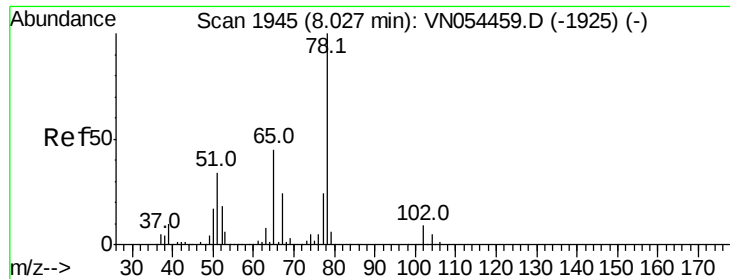
2000

0

7.60 7.65 7.70 7.75

Time-->





#33

1,2-Dichloroethane-d4

Concen: 56.563 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

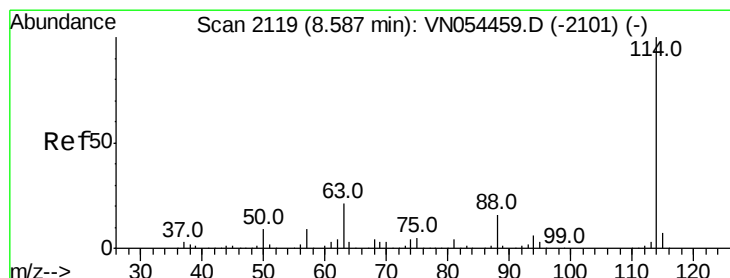
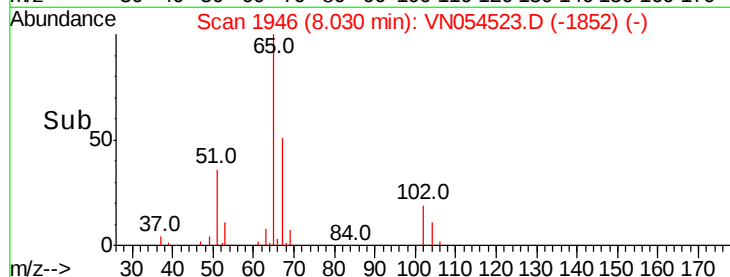
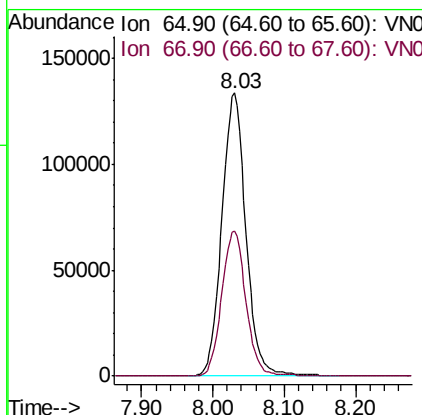
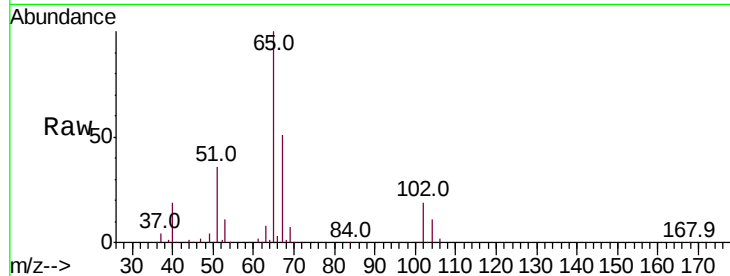
Lab File: VN054523.D

Acq: 21 Mar 2019 20:45

Instrument :
MSVOA_N
ClientSampleId :
OUTFALL001-190319

Tot Ion: 65 Resp: 313194

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	104.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

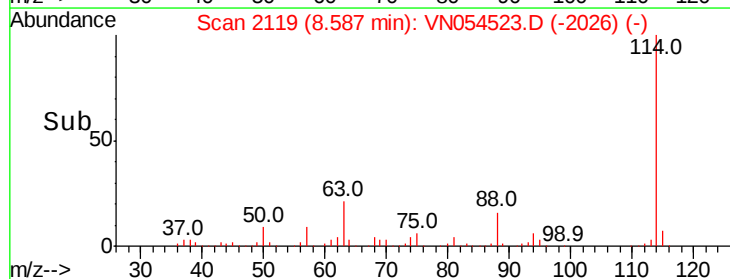
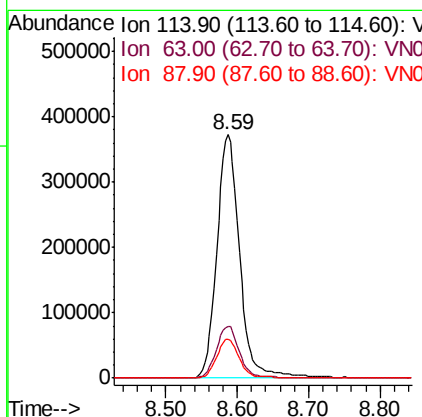
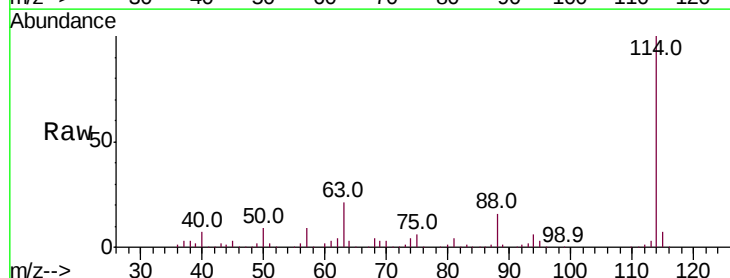
Delta R.T. 0.00 min

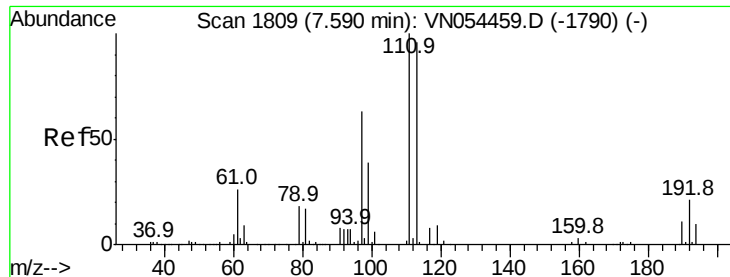
Lab File: VN054523.D

Acq: 21 Mar 2019 20:45

Tgt Ion: 114 Resp: 825489

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	35.2
88	16.1	0.0	30.2





#35

Dibromofluoromethane

Concen: 49.468 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054523.D

Acq: 21 Mar 2019 20:45

Instrument :

MSVOA_N

ClientSampleId :

OUTFALL001-190319

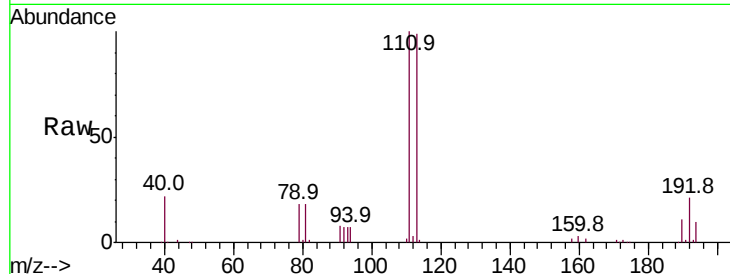
Tot Ion:113 Resp: 263081

Ion Ratio Lower Upper

113 100

111 102.3 82.2 123.4

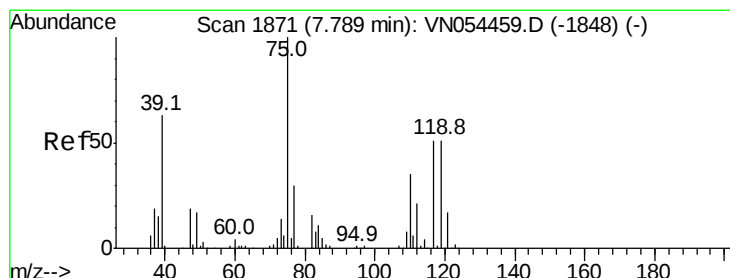
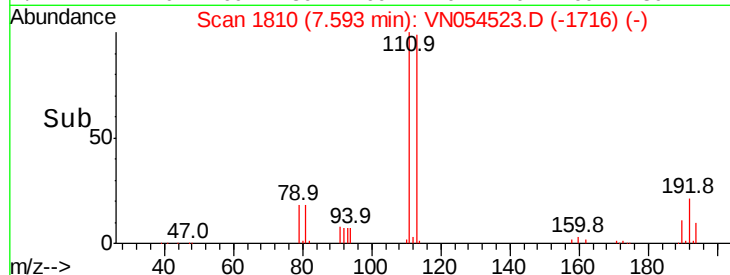
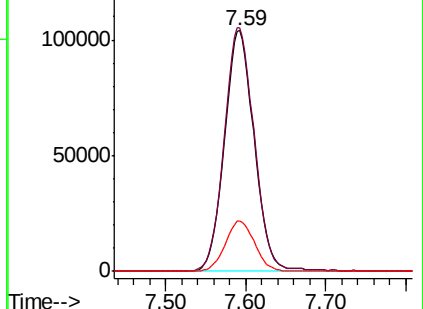
192 20.6 19.2 28.8



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: 4.067 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN054523.D

Acq: 21 Mar 2019 20:45

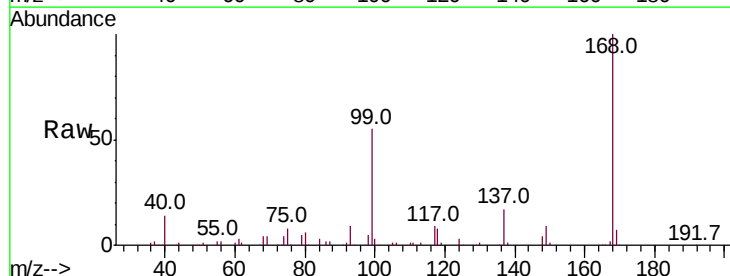
Tgt Ion: 75 Resp: 31388

Ion Ratio Lower Upper

75 100

110 9.4 19.1 57.5#

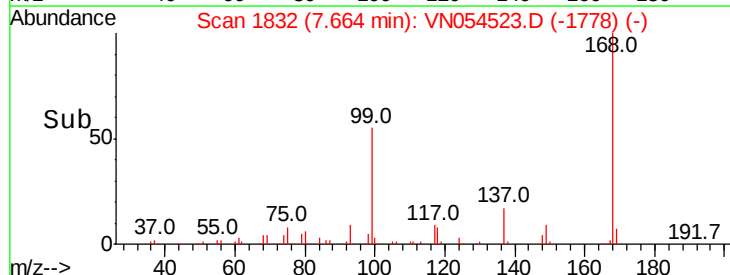
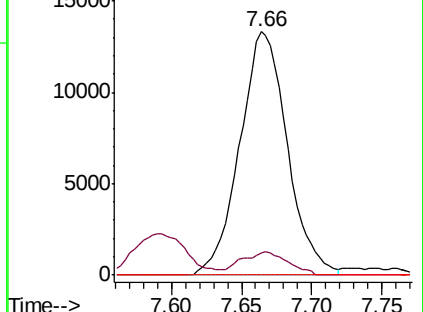
77 0.0 25.0 37.4#

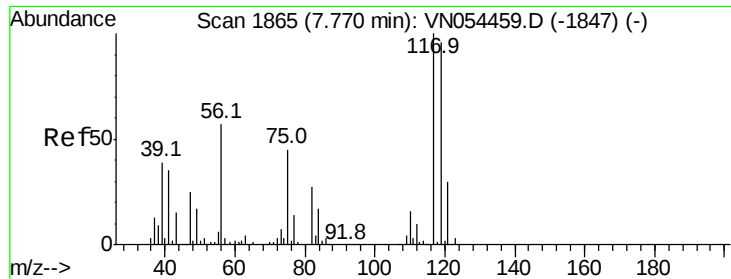


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 5.350 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054523.D

Acq: 21 Mar 2019 20:45

Instrument :

MSVOA_N

ClientSampleId :

OUTFALL001-190319

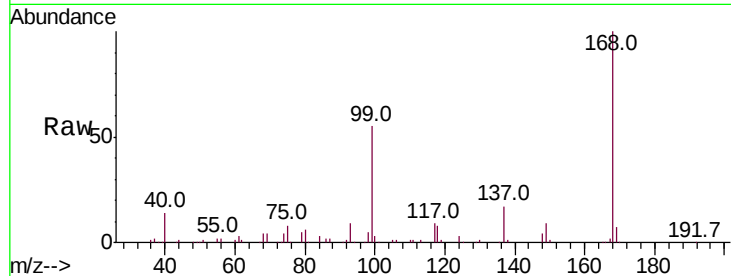
Tot Ion:117 Resp: 40130

Ion Ratio Lower Upper

117 100

119 6.6 76.3 114.5#

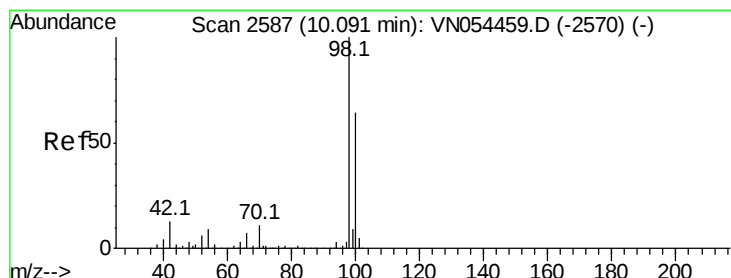
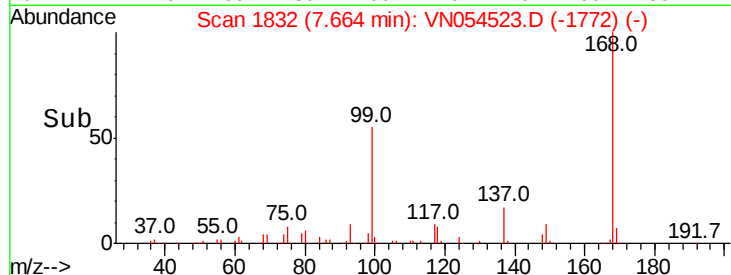
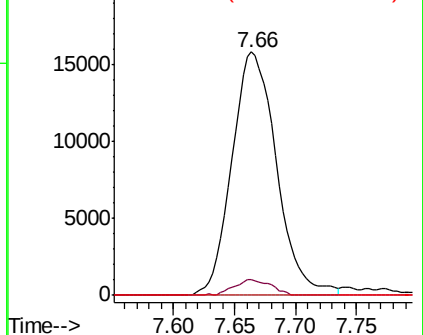
121 0.0 24.6 36.8#



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



#50

Toluene-d8

Concen: 53.882 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054523.D

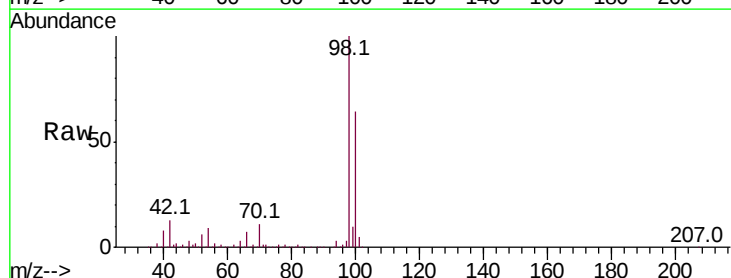
Acq: 21 Mar 2019 20:45

Tgt Ion: 98 Resp: 1077282

Ion Ratio Lower Upper

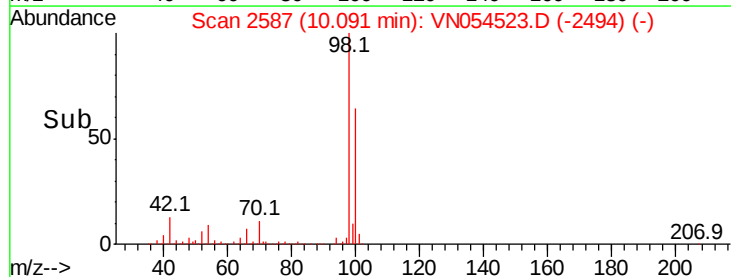
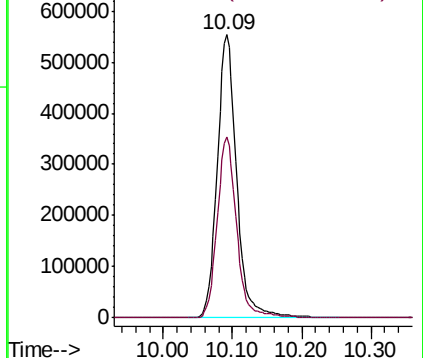
98 100

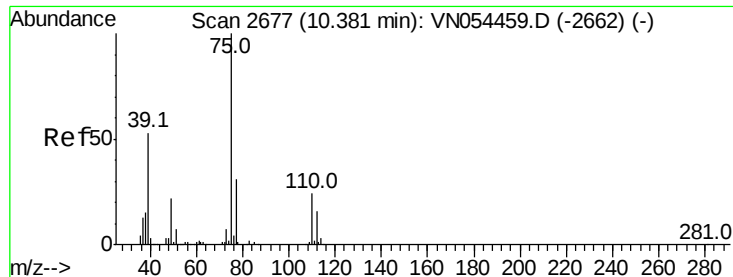
100 63.7 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#53

t-1,3-Dichloropropene

Concen: 2.249 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.29 min

Lab File: VN054523.D

Acq: 21 Mar 2019 20:45

Instrument :

MSVOA_N

ClientSampleId :

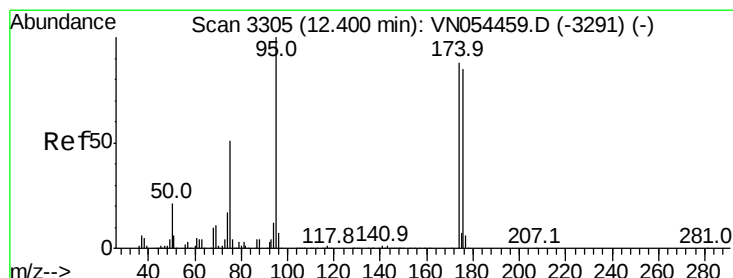
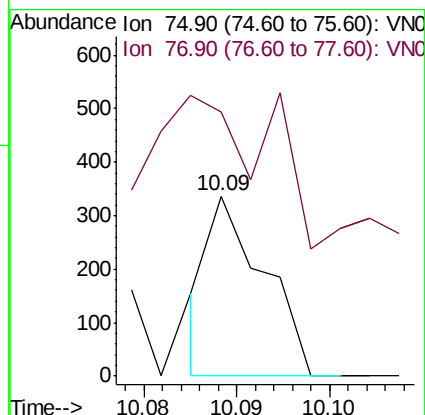
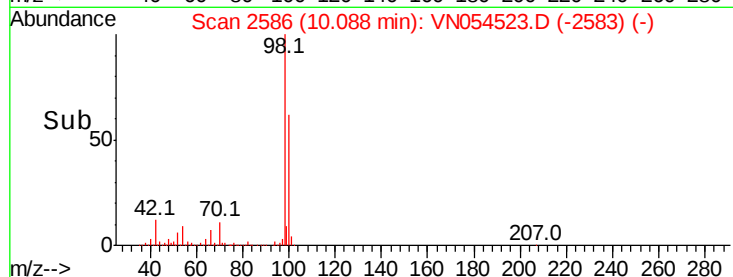
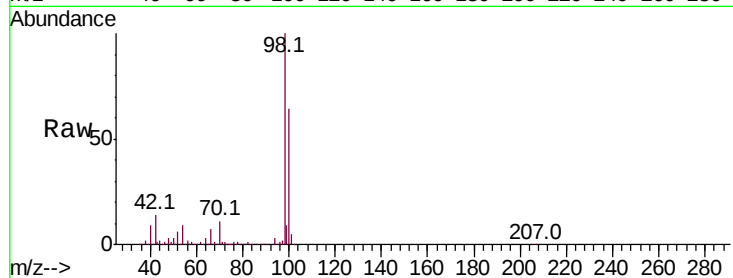
OUTFALL001-190319

Tot Ion: 75 Resp: 139

Ion Ratio Lower Upper

75 100

77 64.7 25.8 38.8#



#62

4-Bromofluorobenzene

Concen: 59.363 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054523.D

Acq: 21 Mar 2019 20:45

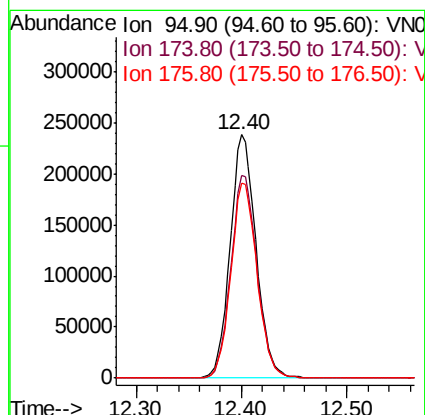
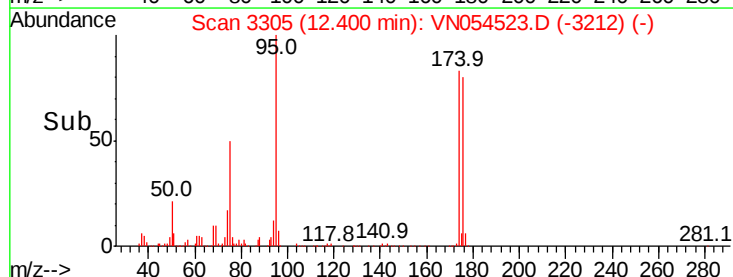
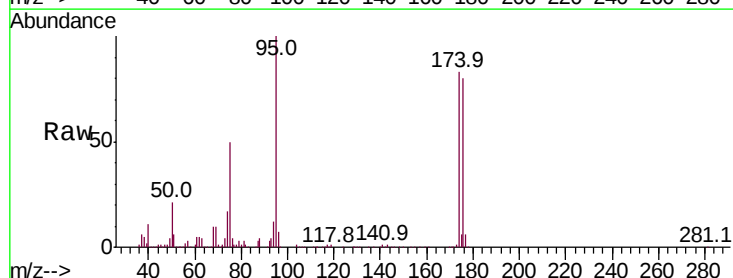
Tgt Ion: 95 Resp: 403868

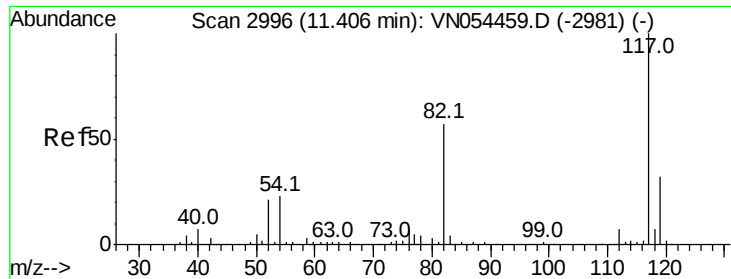
Ion Ratio Lower Upper

95 100

174 84.3 0.0 191.0

176 81.1 0.0 187.4

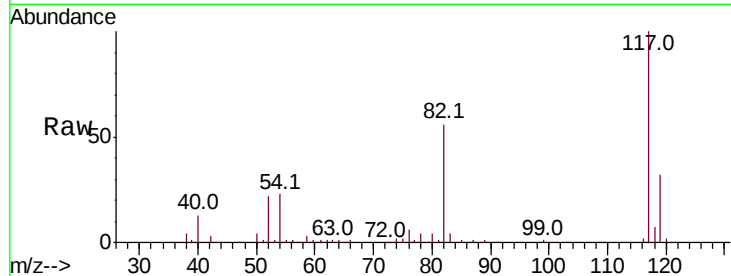




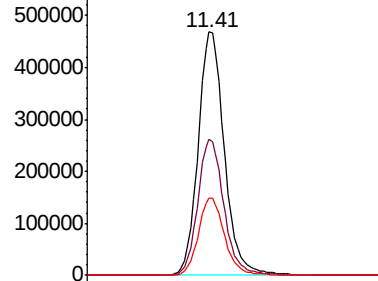
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054523.D
Acq: 21 Mar 2019 20:45

Instrument :
MSVOA_N
ClientSampleId :
OUTFALL001-190319

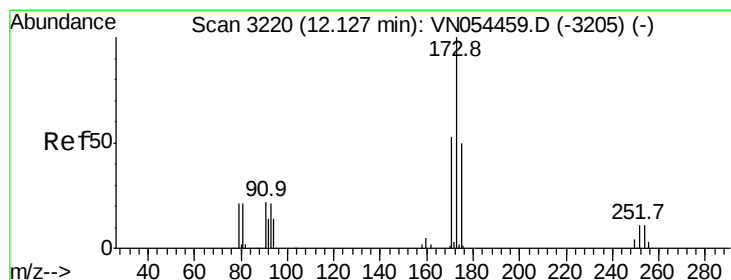
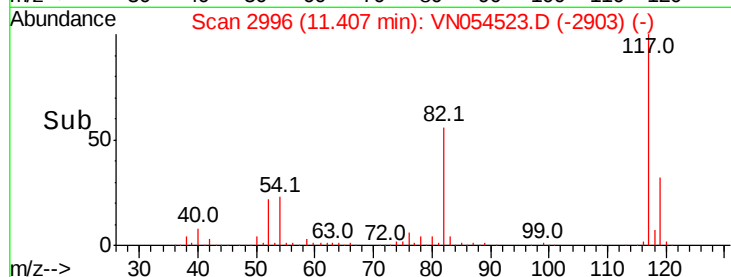
Tot Ion:117 Resp: 866184
Ion Ratio Lower Upper
117 100
82 55.7 40.0 60.0
119 31.9 25.8 38.6



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

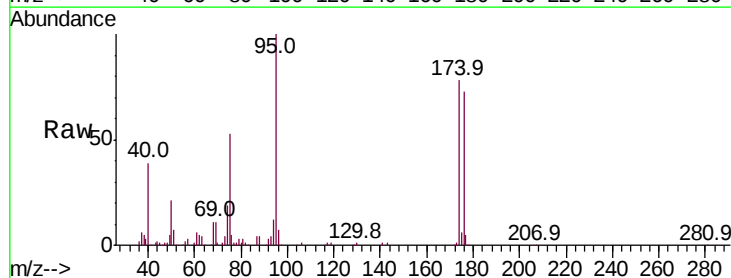


Time--> 11.30 11.40 11.50

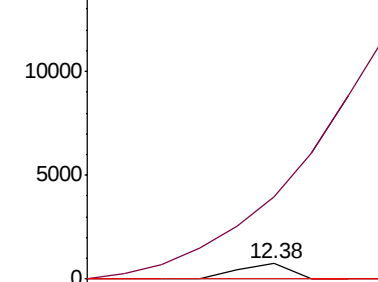


#71
Bromoform
Concen: 2.270 ug/l
RT: 12.38 min Scan# 3300
Delta R.T. 0.26 min
Lab File: VN054523.D
Acq: 21 Mar 2019 20:45

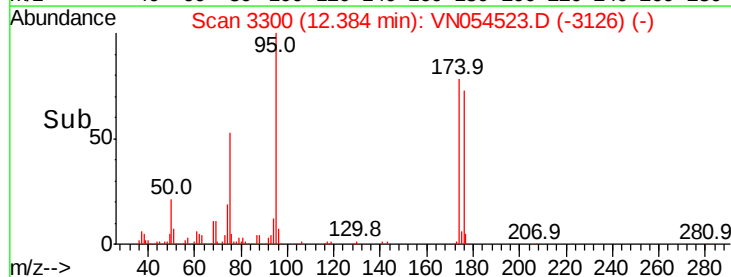
Tgt Ion:173 Resp: 228
Ion Ratio Lower Upper
173 100
175 0.0 24.4 73.2#
254 0.0 0.1 0.1#

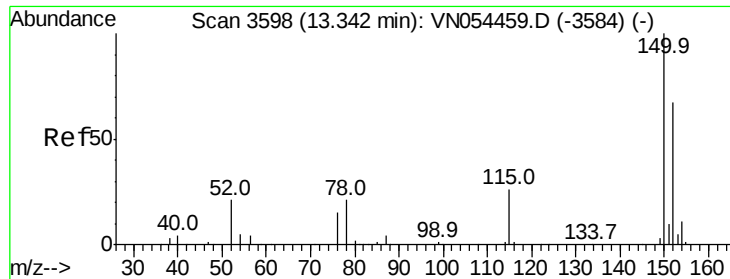


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



Time--> 12.37 12.38 12.39





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN054523.D

Acq: 21 Mar 2019 20:45

Instrument :

MSVOA_N

ClientSampleId :

OUTFALL001-190319

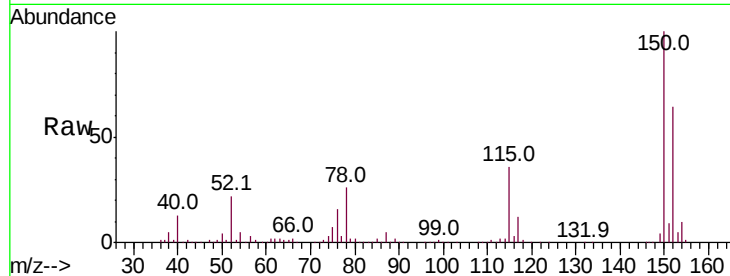
Tot Ion:152 Resp: 323442

Ion Ratio Lower Upper

152 100

115 56.2 27.2 81.6

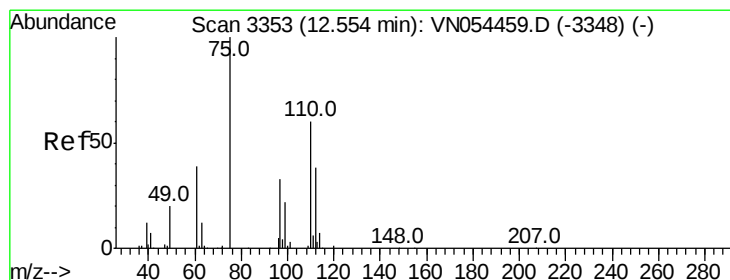
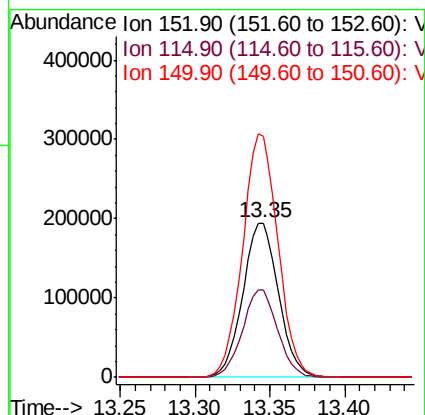
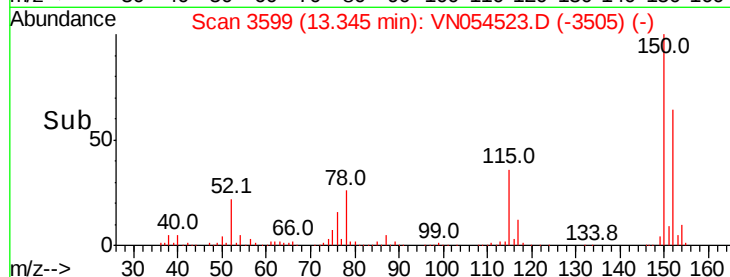
150 155.9 0.0 349.2



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



#76

1,2,3-Trichloropropane

Concen: 39.445 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054523.D

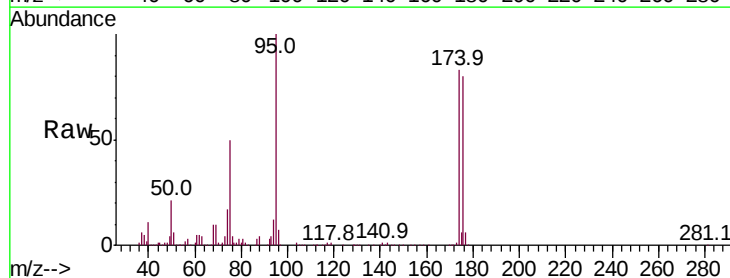
Acq: 21 Mar 2019 20:45

Tgt Ion: 75 Resp: 202455

Ion Ratio Lower Upper

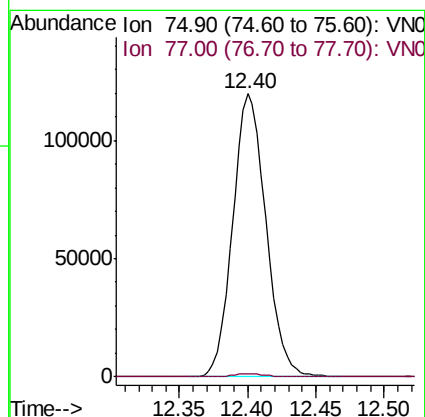
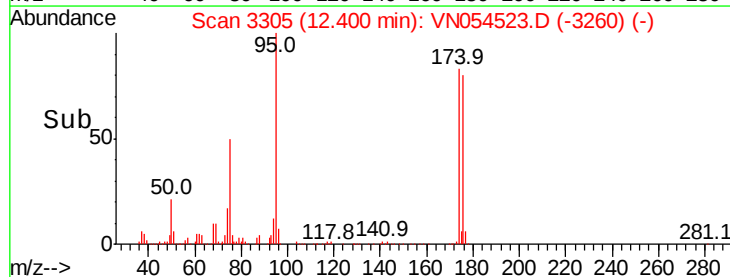
75 100

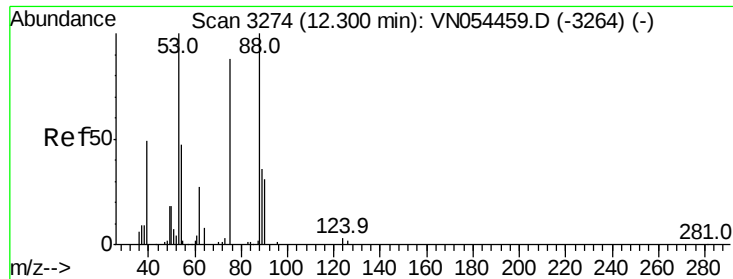
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 130.528 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054523.D

Acq: 21 Mar 2019 20:45

Instrument :

MSVOA_N

ClientSampleId :

OUTFALL001-190319

Tot Ion: 75 Resp: 202455

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#

