

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032119\
 Data File : VN054540.D
 Acq On : 22 Mar 2019 5:29
 Operator : JC/SP
 Sample : K1989-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DRUM-1-2

Quant Time: Mar 22 10:21:49 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	754853	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1164694	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	995793	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	399113	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	443680	47.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.50%	
35) Dibromofluoromethane	7.59	113	340823	45.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.84%	
50) Toluene-d8	10.09	98	1392608	49.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.74%	
62) 4-Bromofluorobenzene	12.40	95	450480	46.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.86%	

Target Compounds

						Qvalue
8) Diethyl Ether	3.41	74	1886	0.410	ug/l #	1
9) 1,1,2-Trichlorotrifluoroet	3.83	101	28382	4.034	ug/l #	16
11) Tert butyl alcohol	4.83	59	92030	161.899	ug/l	99
13) Acrolein	3.61	56	9111	11.614	ug/l #	14
14) Allyl chloride	4.27	41	4959	0.362	ug/l #	26
15) Acrylonitrile	4.99	53	2901	1.025	ug/l #	60
18) Methyl Acetate	4.33	43	438527	69.698	ug/l #	88
19) Methyl tert-butyl Ether	5.06	73	78412	3.690	ug/l	97
20) Methylene Chloride	4.55	84	29143	3.502	ug/l #	81
25) 2-Butanone	6.85	43	137270	37.961	ug/l #	89
29) Tetrahydrofuran	7.23	42	5083	2.166	ug/l #	49
31) Cyclohexane	7.66	56	25874	Below Cal	#	21
36) 1,1-Dichloropropene	7.66	75	56721	5.209	ug/l #	48
37) Ethyl Acetate	6.94	43	22334	2.884	ug/l #	91
38) Carbon Tetrachloride	7.67	117	71691	6.774	ug/l #	15
39) Methylcyclohexane	9.08	83	9861	0.792	ug/l #	81
40) Benzene	8.04	78	62267	2.000	ug/l	100
43) Isopropyl Acetate	8.17	43	26134	1.998	ug/l #	88
48) Methyl methacrylate	9.17	41	273778	38.562	ug/l #	35
49) 1,4-Dioxane	9.20	88	2826	35.605	ug/l #	27
51) 4-Methyl-2-Pentanone	9.99	43	353372	48.745	ug/l	93
53) t-1,3-Dichloropropene	10.16	75	693526	62.900	ug/l #	1
54) cis-1,3-Dichloropropene	9.91	75	59511	5.013	ug/l #	68
57) 1,3-Dichloropropane	10.76	76	10481	0.876	ug/l #	43
59) 2-Hexanone	10.76	43	173114	36.559	ug/l #	54
67) Ethyl Benzene	11.51	91	118097	3.301	ug/l	95
68) m/p-Xylenes	11.62	106	131561	9.709	ug/l	92
69) o-Xylene	11.95	106	83832	6.335	ug/l	96
70) Styrene	11.95	104	7045	0.328	ug/l #	1
71) Bromoform	12.38	173	181	2.255	ug/l #	28
73) Isopropylbenzene	12.25	105	21693	0.675	ug/l	94
74) N-amyl acetate	12.03	43	160266	17.331	ug/l #	44
75) 1,1,2,2-Tetrachloroethane	12.52	83	12923	1.760	ug/l #	27
76) 1,2,3-Trichloropropane	12.40	75	230183	36.345	ug/l #	100

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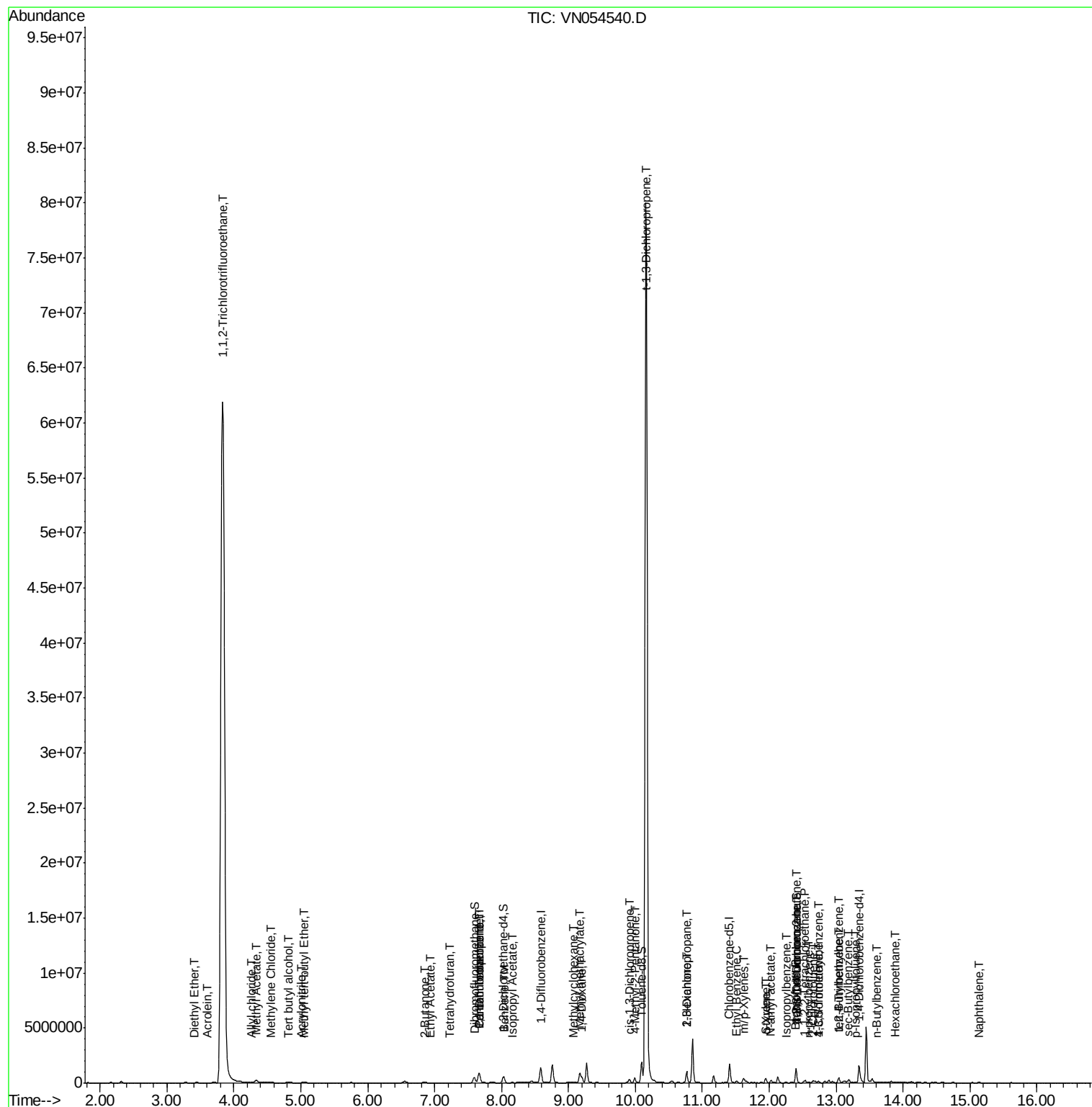
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) n-propylbenzene	12.59	91	43608	1.250	ug/l	96
79) 2-Chlorotoluene	12.66	91	14728	0.677	ug/l #	39
80) 1,3,5-Trimethylbenzene	12.73	105	63460	2.408	ug/l	92
81) trans-1,4-Dichloro-2-buten	12.40	75	230183	120.517	ug/l #	11
82) 4-Chlorotoluene	12.73	91	5456	0.259	ug/l #	39
83) tert-Butylbenzene	13.04	119	32936	1.435	ug/l #	60
84) 1,2,4-Trimethylbenzene	13.04	105	270536	10.460	ug/l	96
85) sec-Butylbenzene	13.17	105	9579	0.335	ug/l	81
86) p-Isopropyltoluene	13.29	119	7660	0.299	ug/l	98
89) n-Butylbenzene	13.62	91	4337	0.217	ug/l #	59
90) Hexachloroethane	13.89	117	1958	0.493	ug/l #	2
95) Naphthalene	15.13	128	38073	2.674	ug/l	99

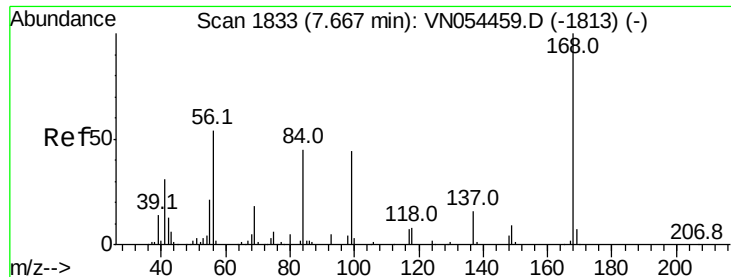
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054540.D

Acq: 22 Mar 2019 5:29

Instrument :

MSVOA_N

ClientSampleId :

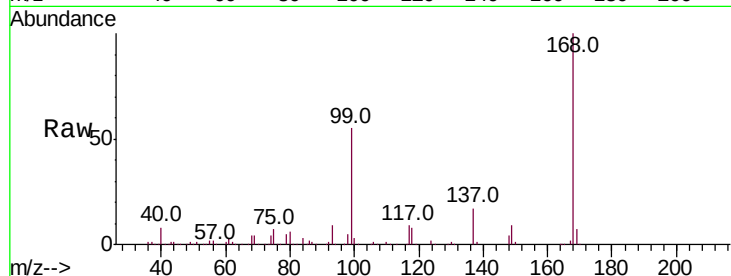
DRUM-1-2

Tot Ion:168 Resp: 754853

Ion Ratio Lower Upper

168 100

99 55.0 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

7.66

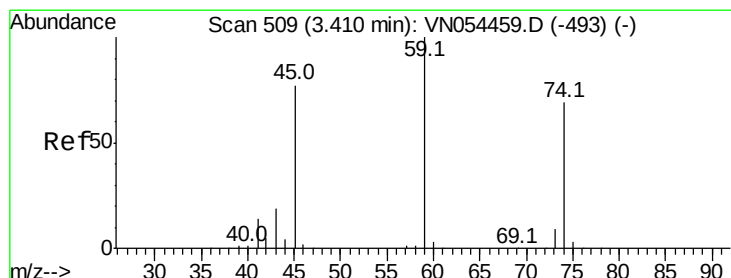
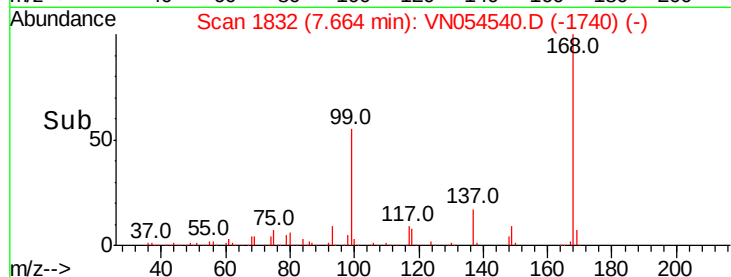
300000

200000

100000

0

Time-->



#8

Diethyl Ether

Concen: 0.410 ug/l

RT: 3.41 min Scan# 508

Delta R.T. -0.00 min

Lab File: VN054540.D

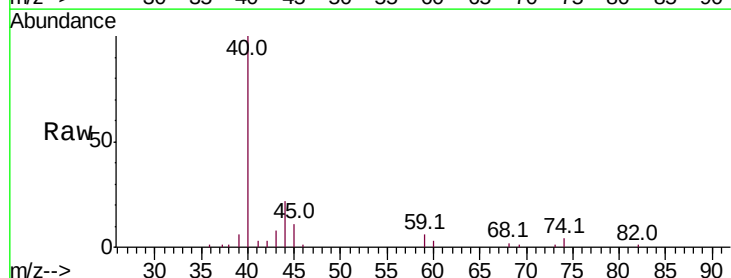
Acq: 22 Mar 2019 5:29

Tgt Ion: 74 Resp: 1886

Ion Ratio Lower Upper

74 100

45 200.8 43.1 129.4#



Abundance Ion 74.00 (73.70 to 74.70): VN054459.D

Ion 45.00 (44.70 to 45.70): VN054459.D

2500

2000

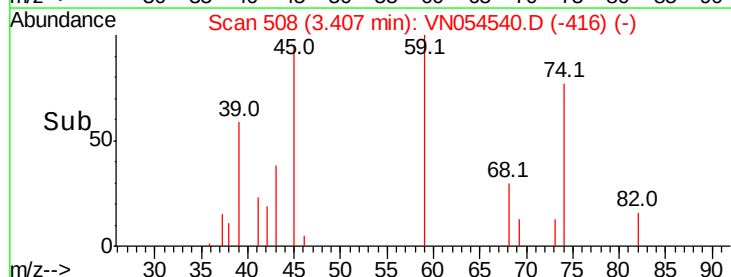
1500

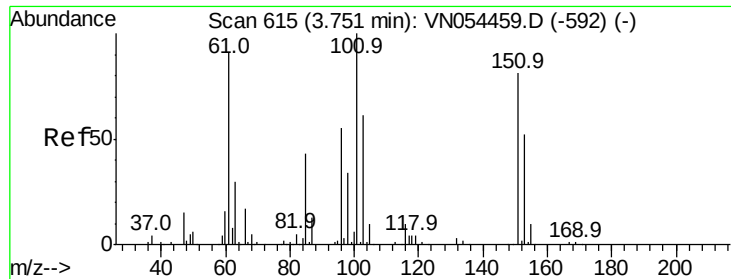
1000

500

0

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.034 ug/l

RT: 3.83 min Scan# 640

Delta R.T. 0.08 min

Lab File: VN054540.D

Acq: 22 Mar 2019 5:29

Instrument :

MSVOA_N

ClientSampleId :

DRUM-1-2

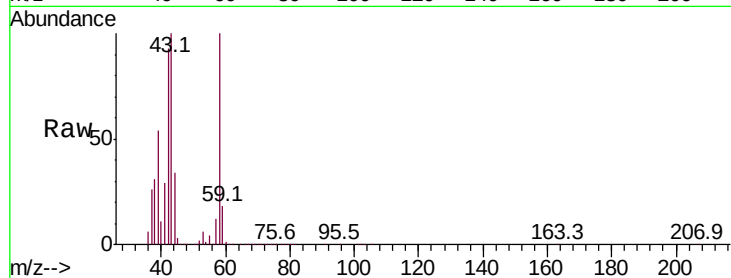
Tot Ion:101 Resp: 28382

Ion Ratio Lower Upper

101 100

85 0.0 32.4 48.6#

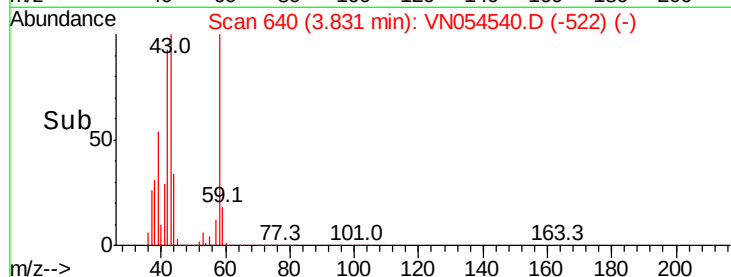
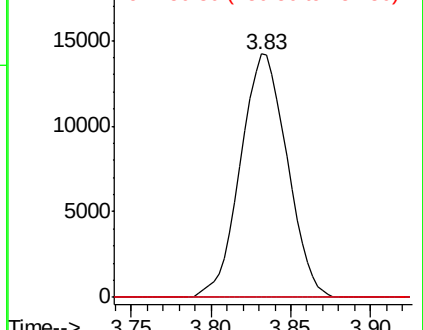
151 0.0 68.2 102.2#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VNO

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 161.899 ug/l

RT: 4.83 min Scan# 950

Delta R.T. 0.01 min

Lab File: VN054540.D

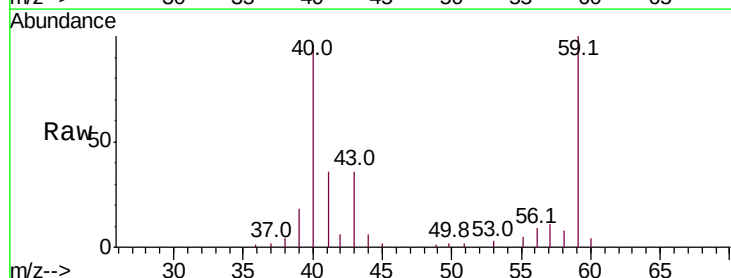
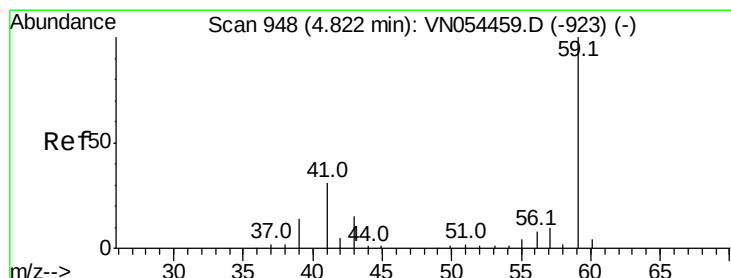
Acq: 22 Mar 2019 5:29

Tgt Ion: 59 Resp: 92030

Ion Ratio Lower Upper

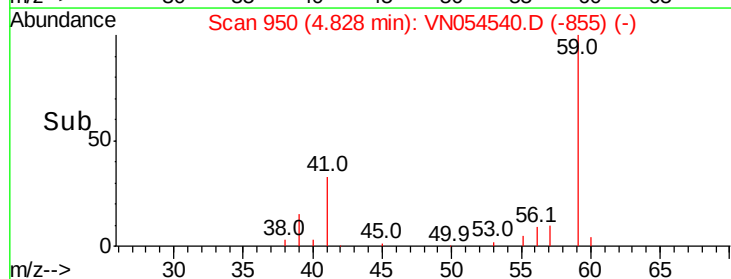
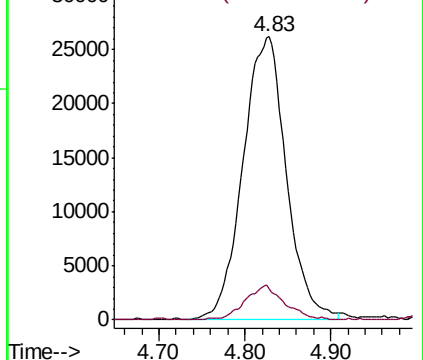
59 100

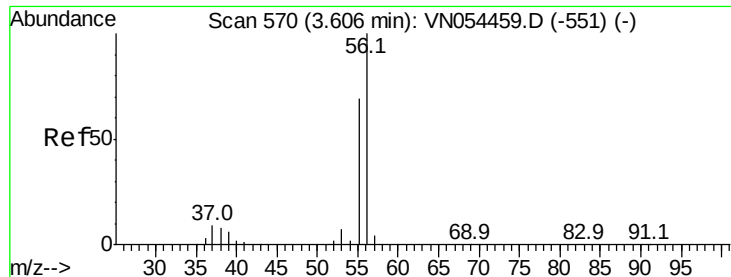
57 11.0 9.0 13.6



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#13

Acrolein

Concen: 11.614 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN054540.D

Acq: 22 Mar 2019 5:29

Instrument :

MSVOA_N

ClientSampled :

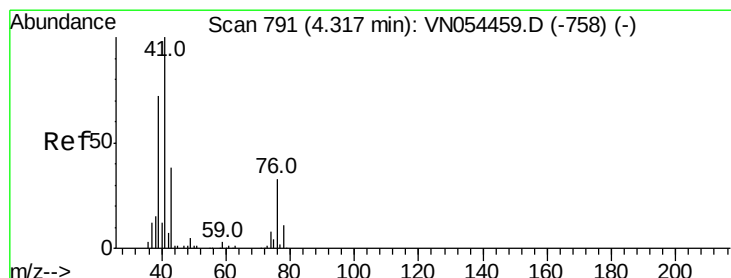
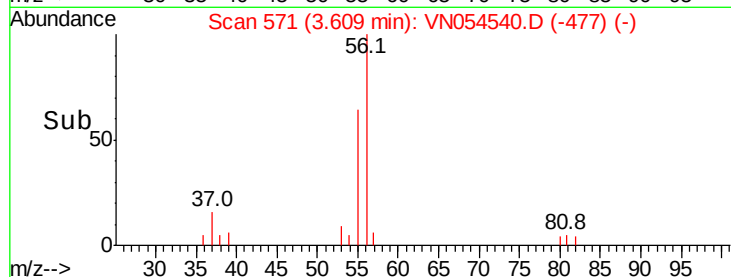
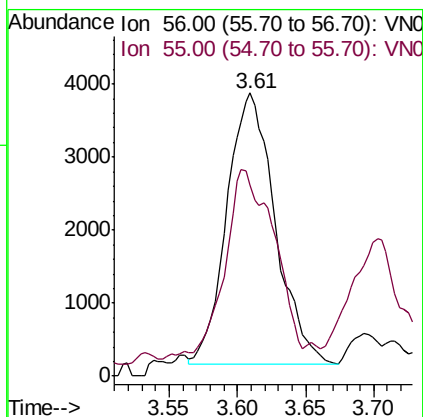
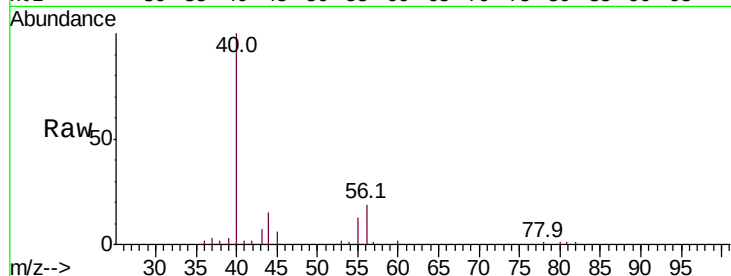
DRUM-1-2

Tot Ion: 56 Resp: 9111

Ion Ratio Lower Upper

56 100

55 0.0 56.7 85.1#



#14

Allyl chloride

Concen: 0.362 ug/l

RT: 4.27 min Scan# 775

Delta R.T. -0.05 min

Lab File: VN054540.D

Acq: 22 Mar 2019 5:29

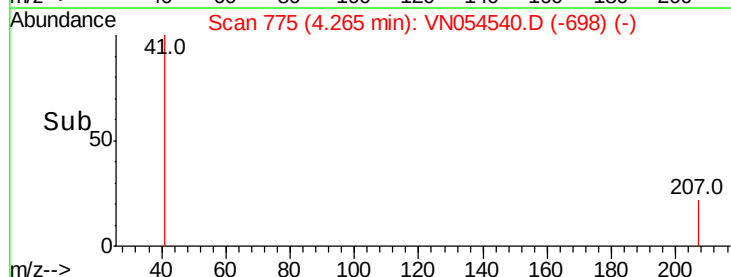
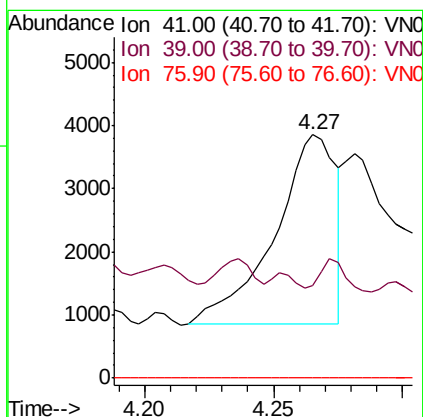
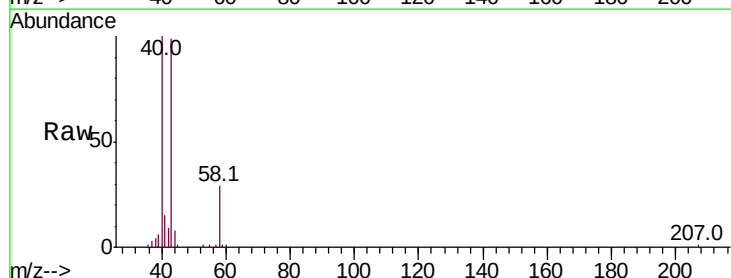
Tgt Ion: 41 Resp: 4959

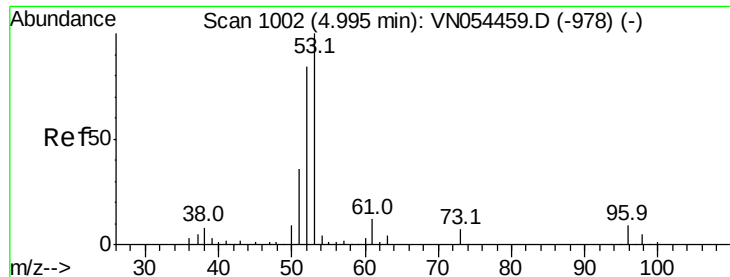
Ion Ratio Lower Upper

41 100

39 7.0 58.2 87.4#

76 0.0 31.7 47.5#

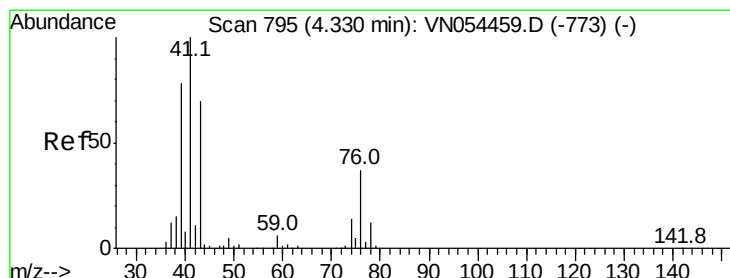
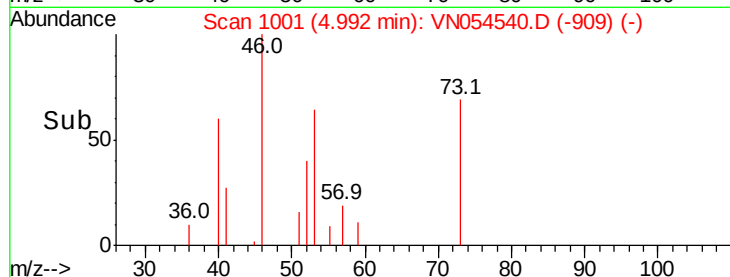
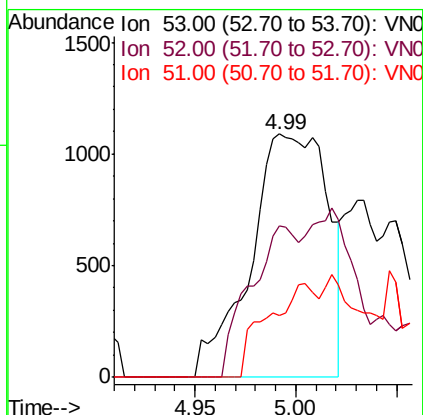
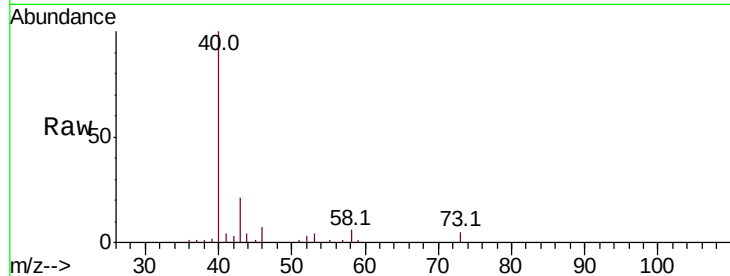




#15
 Acrylonitrile
 Concen: 1.025 ug/l
 RT: 4.99 min Scan# 1001
 Delta R.T. -0.00 min
 Lab File: VN054540.D
 Acq: 22 Mar 2019 5:29

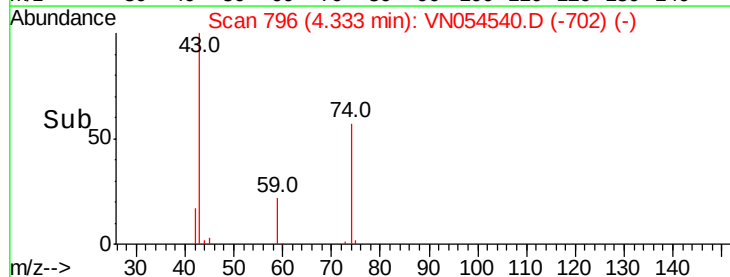
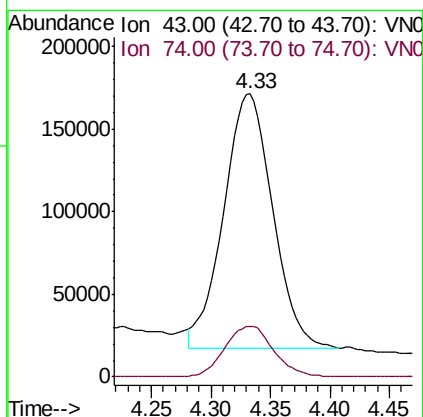
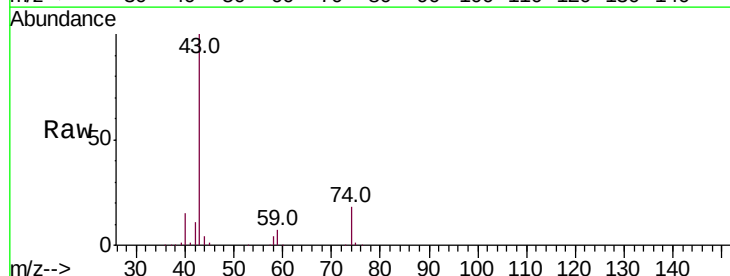
Instrument :
 MSVOA_N
 ClientSampled :
 DRUM-1-2

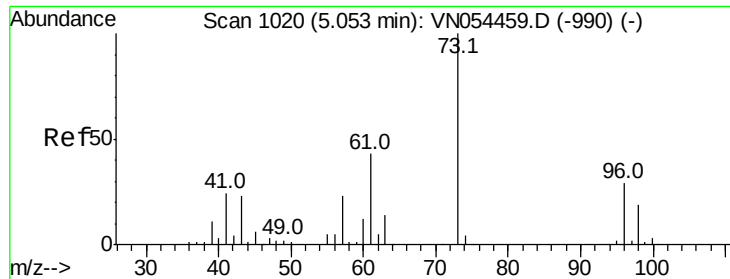
Tot Ion: 53 Resp: 2901
 Ion Ratio Lower Upper
 53 100
 52 38.9 66.4 99.6#
 51 24.8 29.6 44.4#



#18
 Methyl Acetate
 Concen: 69.698 ug/l
 RT: 4.33 min Scan# 796
 Delta R.T. 0.00 min
 Lab File: VN054540.D
 Acq: 22 Mar 2019 5:29

Tgt Ion: 43 Resp: 438527
 Ion Ratio Lower Upper
 43 100
 74 20.0 20.8 31.2#

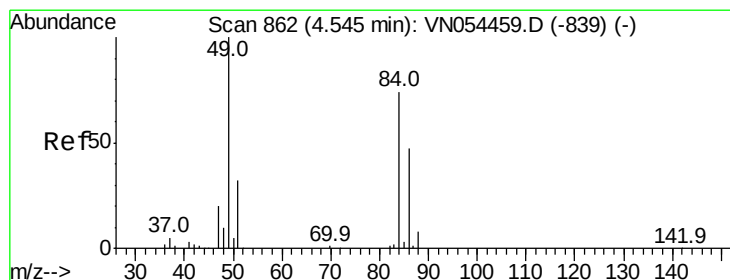
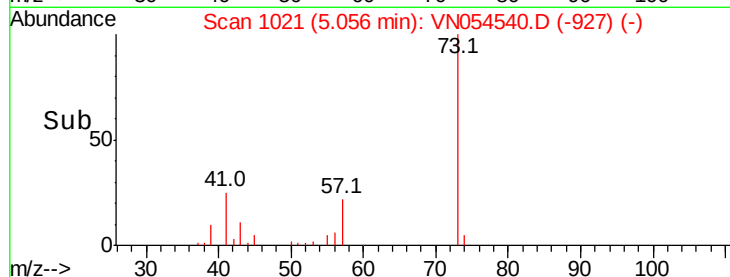
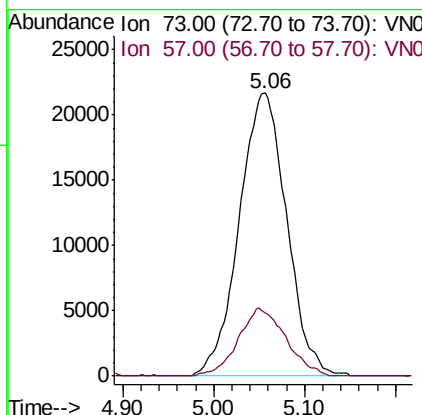
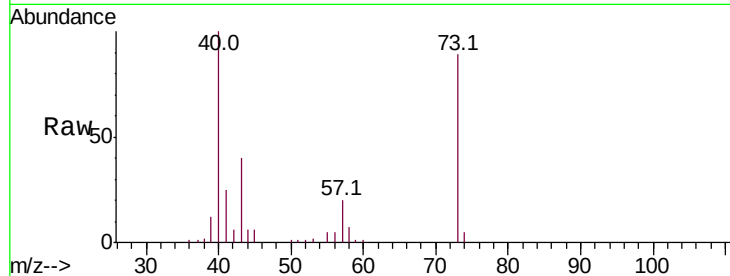




#19
Methyl tert-butyl Ether
Concen: 3.690 ug/l
RT: 5.06 min Scan# 1021
Delta R.T. 0.00 min
Lab File: VN054540.D
Acq: 22 Mar 2019 5:29

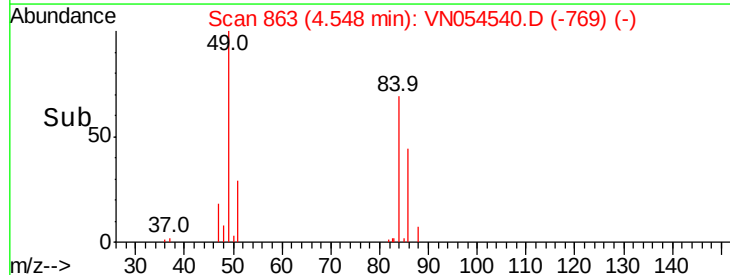
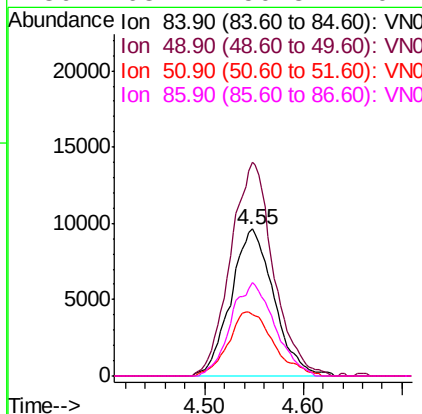
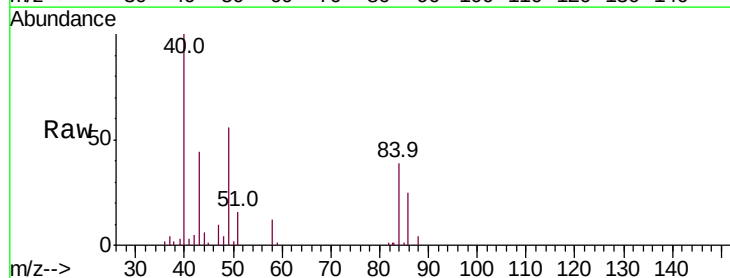
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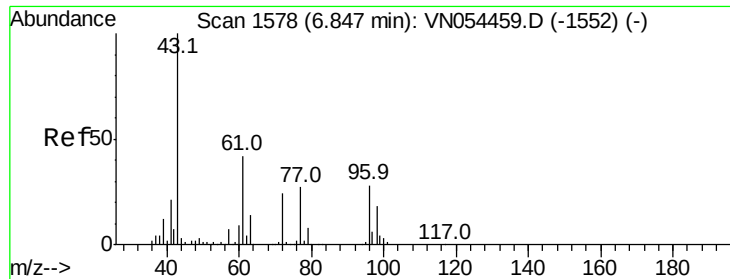
Tot Ion: 73 Resp: 78412
Ion Ratio Lower Upper
73 100
57 22.4 16.8 25.2



#20
Methylene Chloride
Concen: 3.502 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054540.D
Acq: 22 Mar 2019 5:29

Tgt Ion: 84 Resp: 29143
Ion Ratio Lower Upper
84 100
49 145.6 89.7 134.5#
51 42.0 28.2 42.4
86 63.4 50.8 76.2





#25

2-Butanone

Concen: 37.961 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VN054540.D

Acq: 22 Mar 2019 5:29

Instrument :

MSVOA_N

ClientSampled :

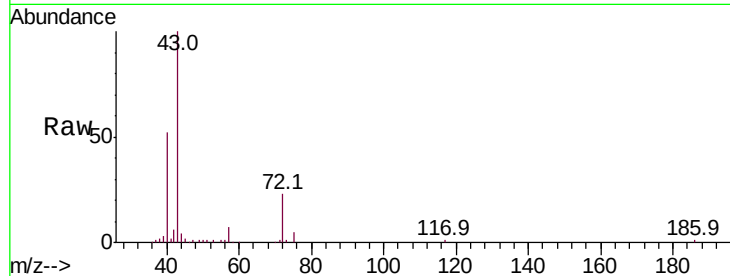
DRUM-1-2

Tot Ion: 43 Resp: 137270

Ion Ratio Lower Upper

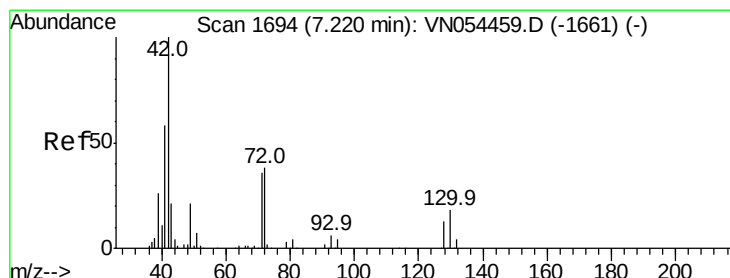
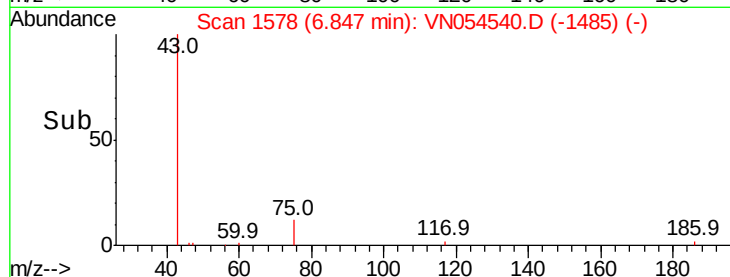
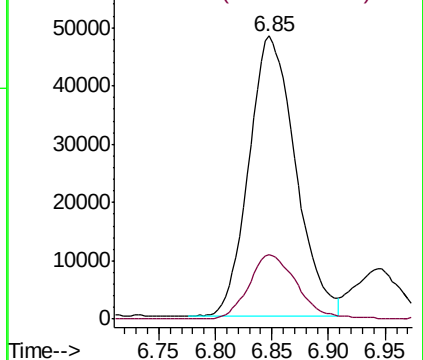
43 100

72 23.0 23.0 34.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 2.166 ug/l

RT: 7.23 min Scan# 1698

Delta R.T. 0.01 min

Lab File: VN054540.D

Acq: 22 Mar 2019 5:29

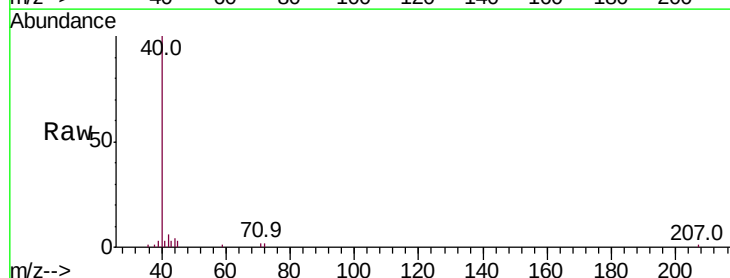
Tgt Ion: 42 Resp: 5083

Ion Ratio Lower Upper

42 100

72 6.8 37.8 56.6#

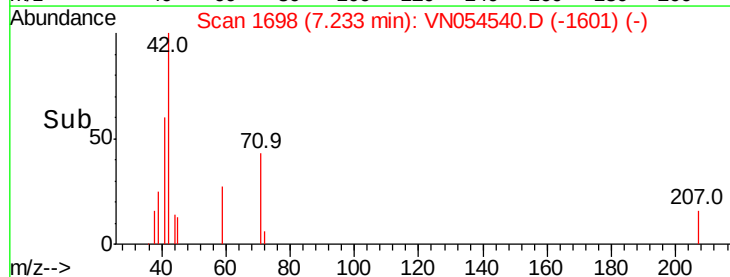
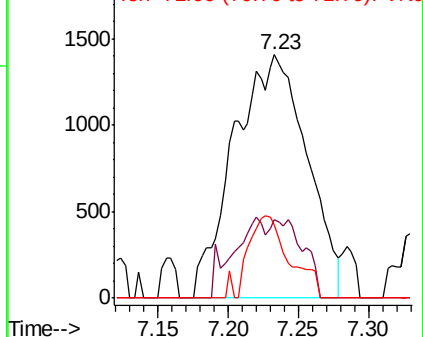
71 18.7 36.2 54.2#

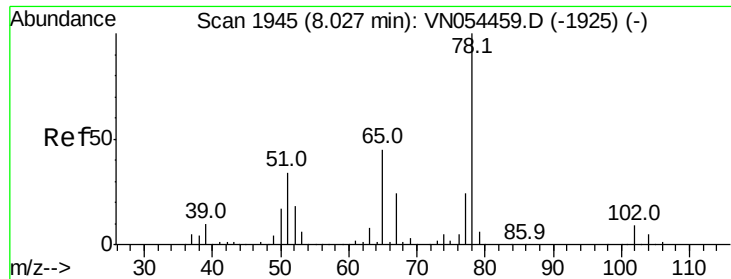


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

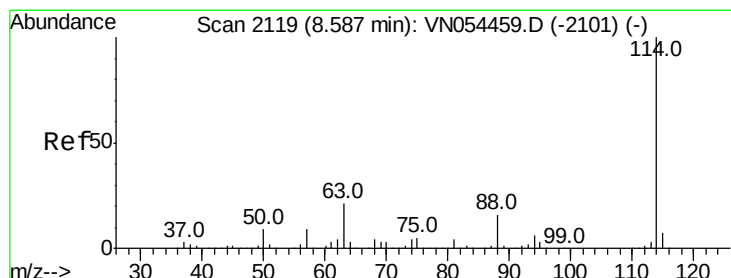
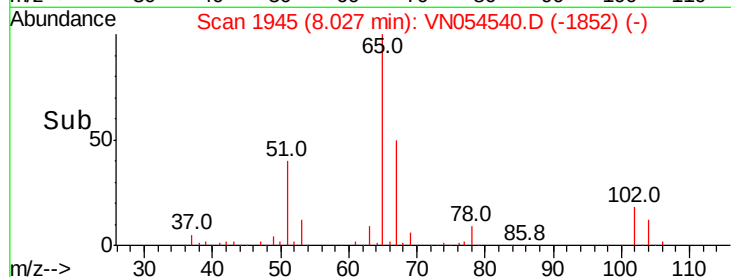
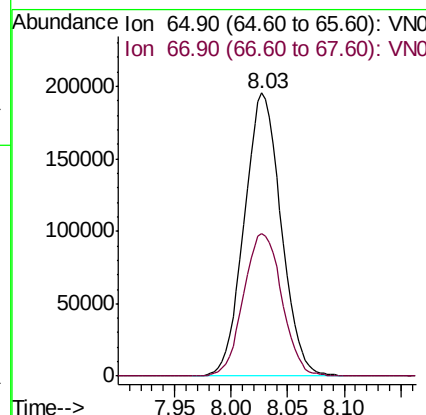
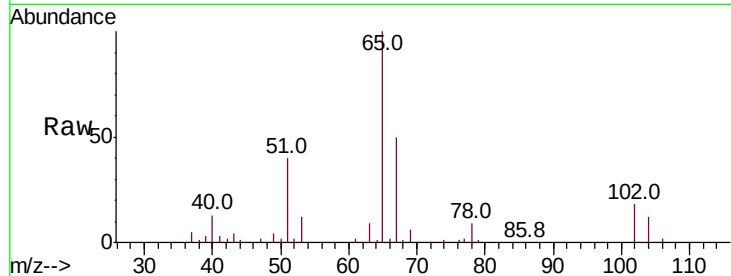




#33
 1,2-Dichloroethane-d4
 Concen: 47.254 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054540.D
 Acq: 22 Mar 2019 5:29

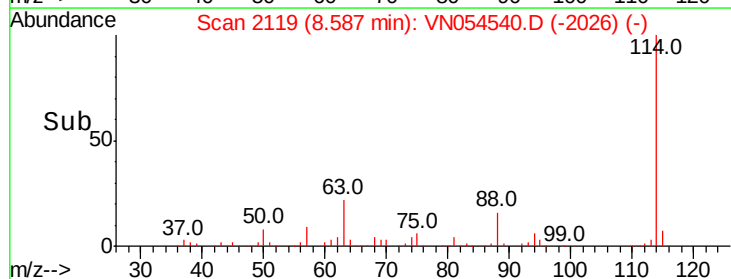
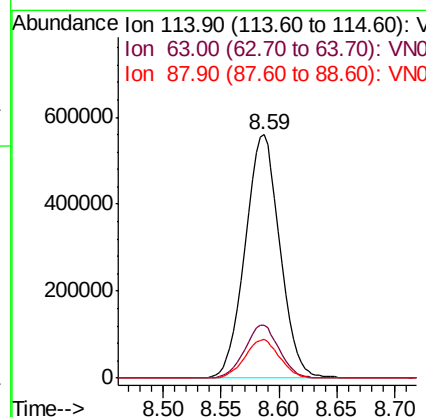
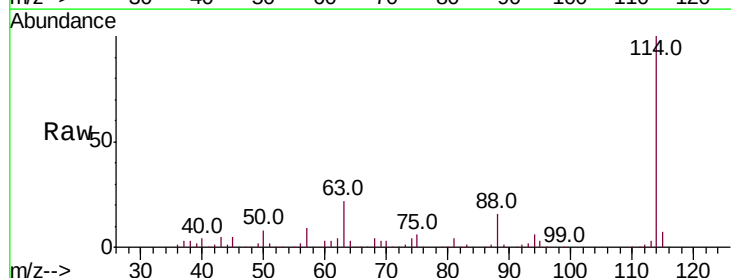
Instrument :
 MSVOA_N
 ClientSampleId :
 DRUM-1-2

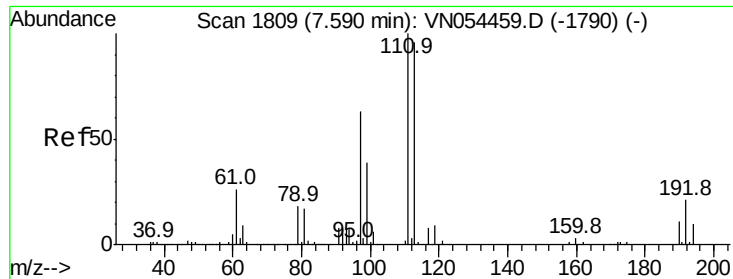
Tot Ion: 65 Resp: 443680
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054540.D
 Acq: 22 Mar 2019 5:29

Tgt Ion: 114 Resp: 1164694
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 35.2
 88 15.7 0.0 30.2

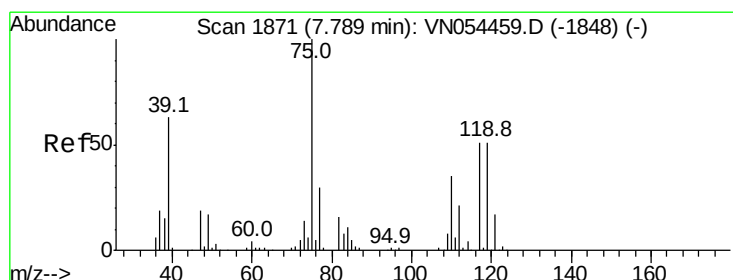
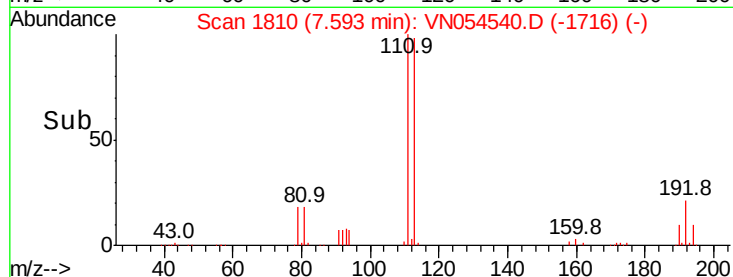
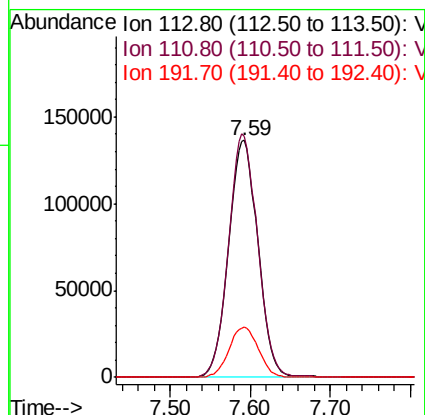
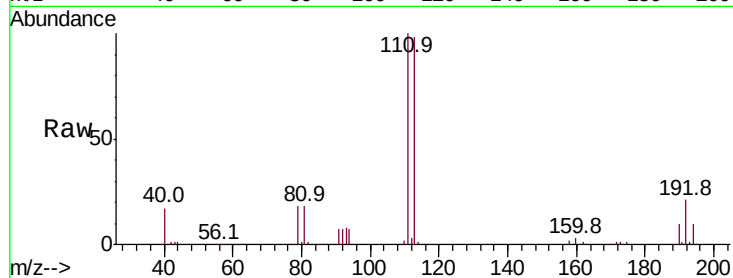




#35
 Dibromofluoromethane
 Concen: 45.422 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054540.D
 Acq: 22 Mar 2019 5:29

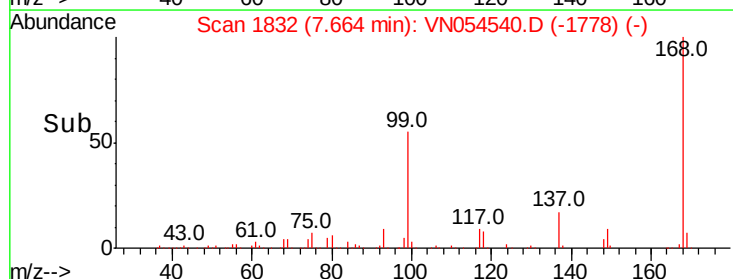
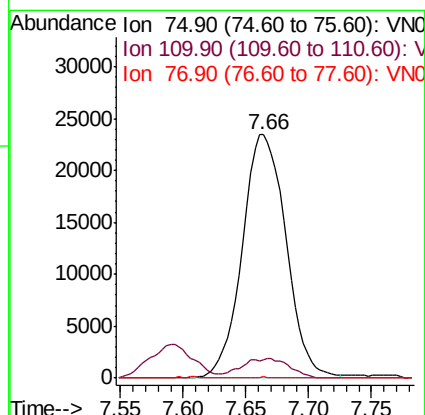
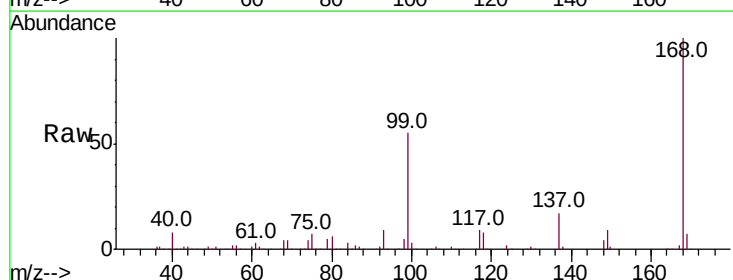
Instrument :
 MSVOA_N
 ClientSampleId :
 DRUM-1-2

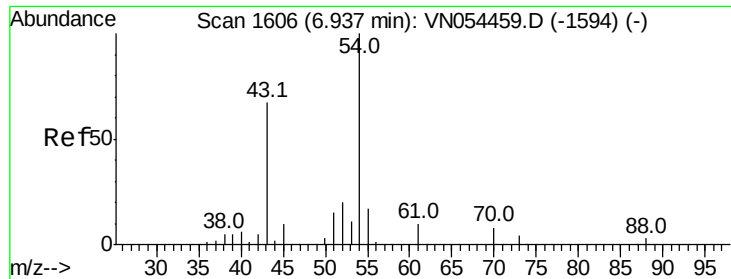
Tot Ion:113 Resp: 340823
 Ion Ratio Lower Upper
 113 100
 111 101.2 82.2 123.4
 192 21.1 19.2 28.8



#36
 1,1-Dichloropropene
 Concen: 5.209 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054540.D
 Acq: 22 Mar 2019 5:29

Tgt Ion: 75 Resp: 56721
 Ion Ratio Lower Upper
 75 100
 110 8.8 19.1 57.5#
 77 0.0 25.0 37.4#

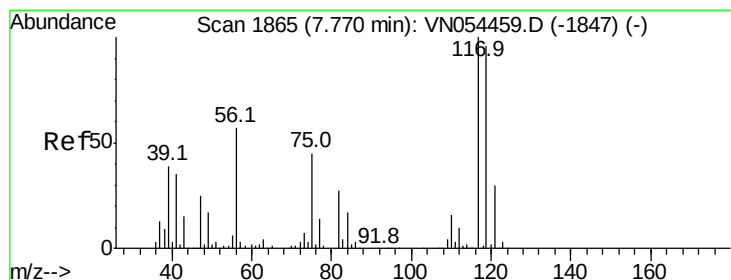
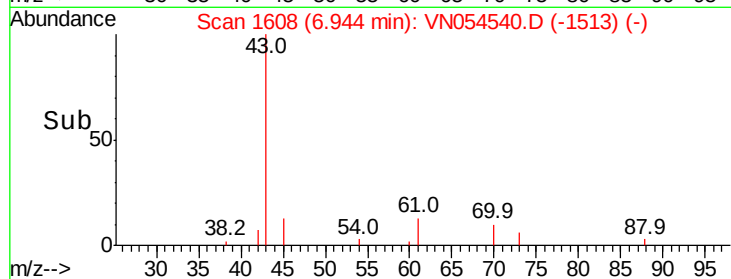
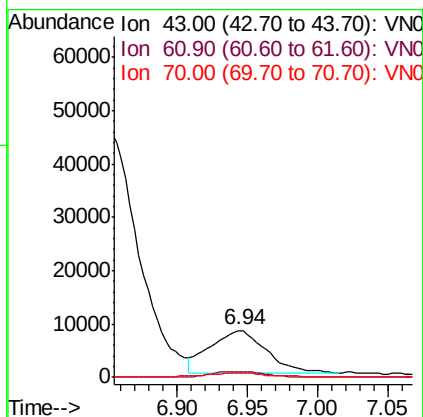
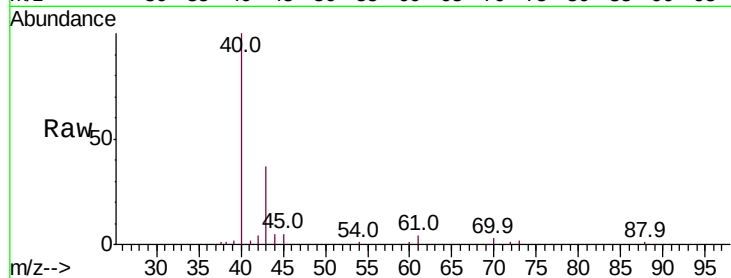




#37
Ethyl Acetate
Concen: 2.884 ug/l
RT: 6.94 min Scan# 1608
Delta R.T. 0.01 min
Lab File: VN054540.D
Acq: 22 Mar 2019 5:29

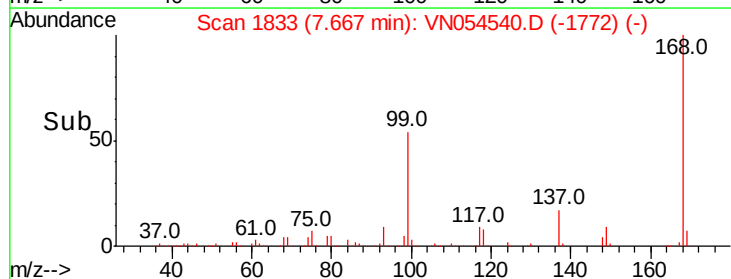
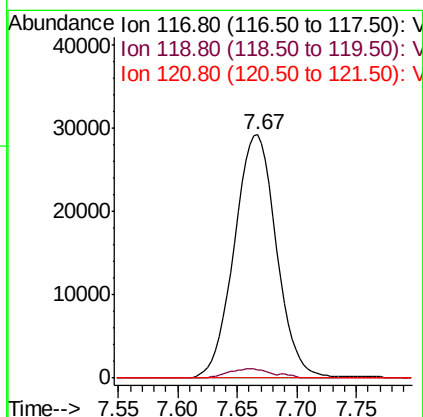
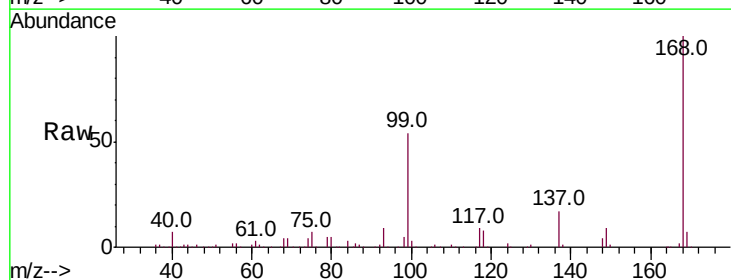
Instrument :
MSVOA_N
ClientSampleId :
DRUM-1-2

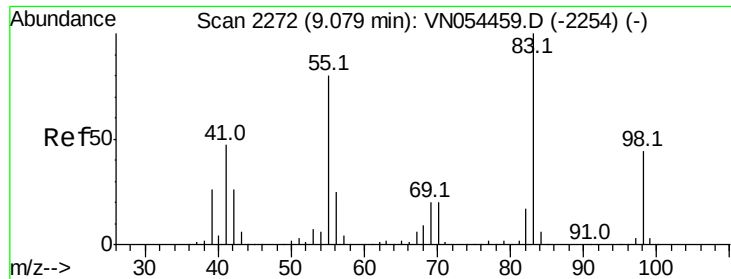
Tot Ion: 43 Resp: 22334
Ion Ratio Lower Upper
43 100
61 12.7 11.8 17.6
70 5.3 8.4 12.6#



#38
Carbon Tetrachloride
Concen: 6.774 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.10 min
Lab File: VN054540.D
Acq: 22 Mar 2019 5:29

Tgt Ion: 117 Resp: 71691
Ion Ratio Lower Upper
117 100
119 3.5 76.3 114.5#
121 0.0 24.6 36.8#

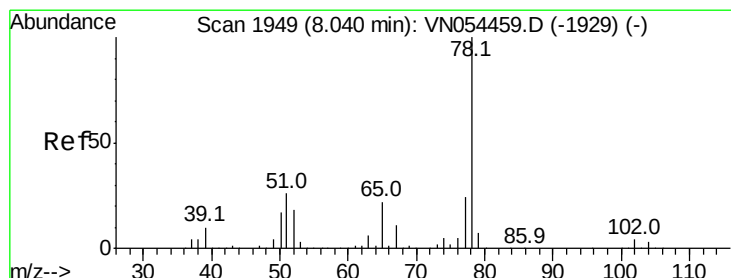
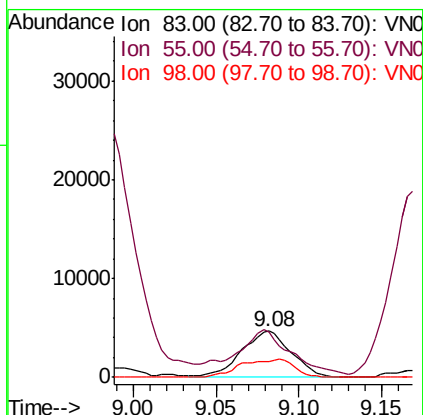
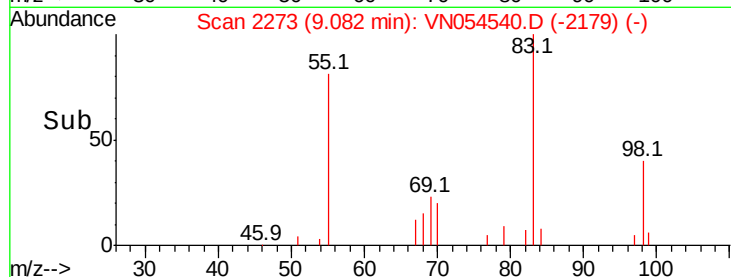
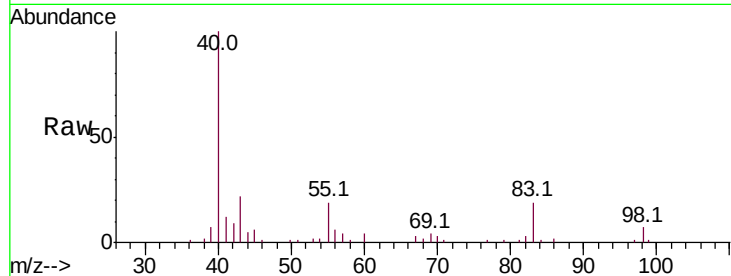




#39
Methylvlcyclohexane
Concen: 0.792 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN054540.D
Acq: 22 Mar 2019 5:29

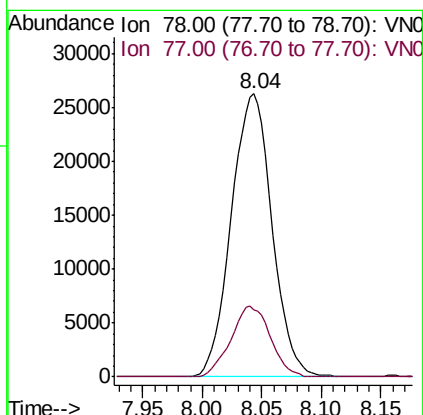
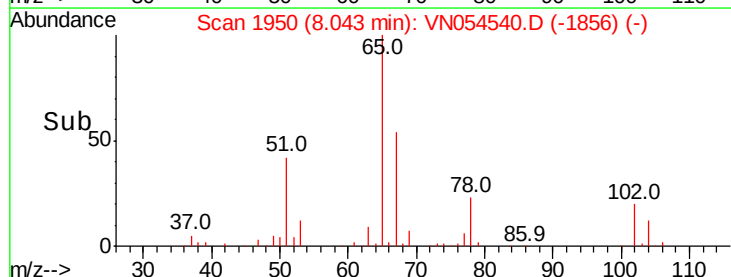
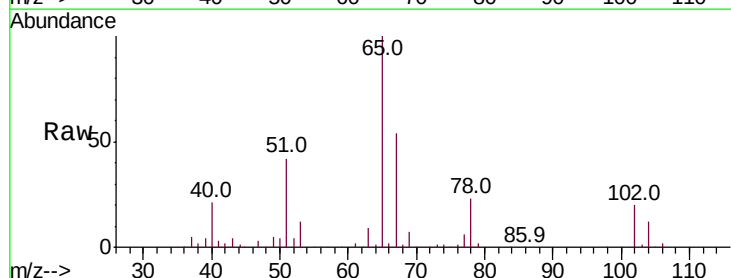
Instrument :
MSVOA_N
ClientSampleId :
DRUM-1-2

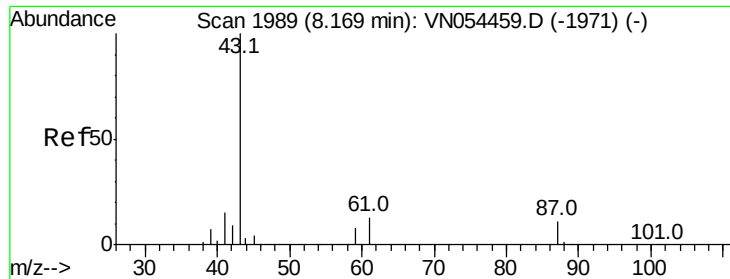
Tot Ion: 83 Resp: 9861
Ion Ratio Lower Upper
83 100
55 85.6 56.6 84.8#
98 34.3 38.4 57.6#



#40
Benzene
Concen: 2.000 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN054540.D
Acq: 22 Mar 2019 5:29

Tgt Ion: 78 Resp: 62267
Ion Ratio Lower Upper
78 100
77 23.9 19.1 28.7





#43

Isopropyl Acetate

Concen: 1.998 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VN054540.D

Acq: 22 Mar 2019 5:29

Instrument :

MSVOA_N

ClientSampled :

DRUM-1-2

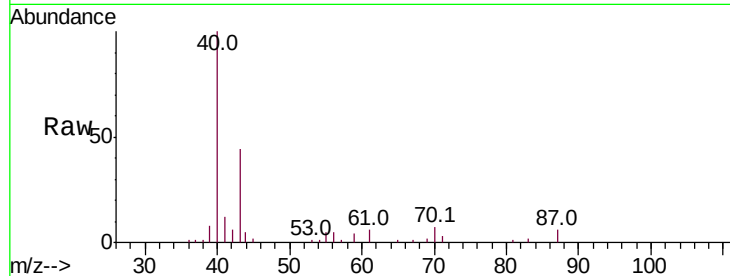
Tot Ion: 43 Resp: 26134

Ion Ratio Lower Upper

43 100

61 14.1 15.8 23.8#

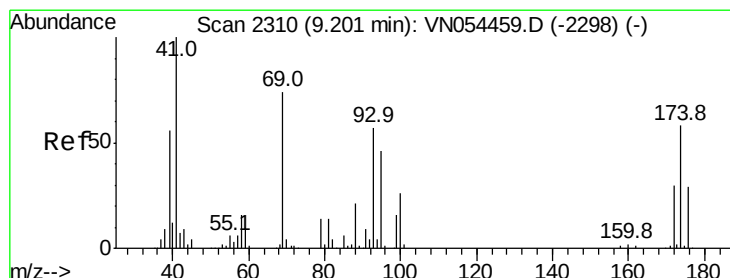
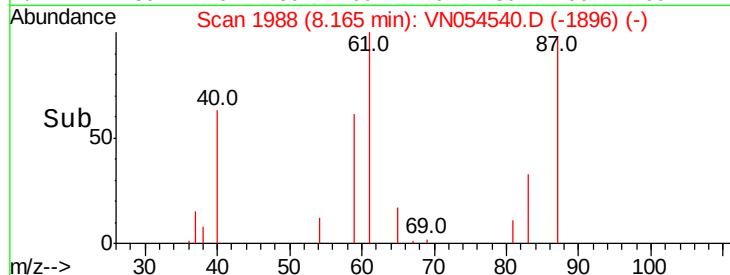
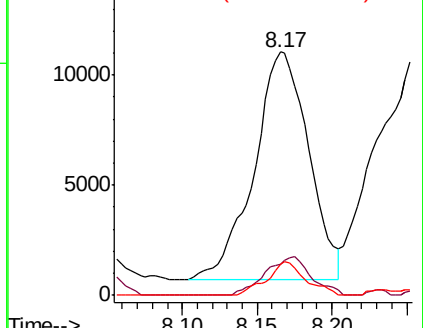
87 10.3 12.0 18.0#



Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 61.00 (60.70 to 61.70): VNC

Ion 87.00 (86.70 to 87.70): VNC



#48

Methyl methacrylate

Concen: 38.562 ug/l

RT: 9.17 min Scan# 2301

Delta R.T. -0.03 min

Lab File: VN054540.D

Acq: 22 Mar 2019 5:29

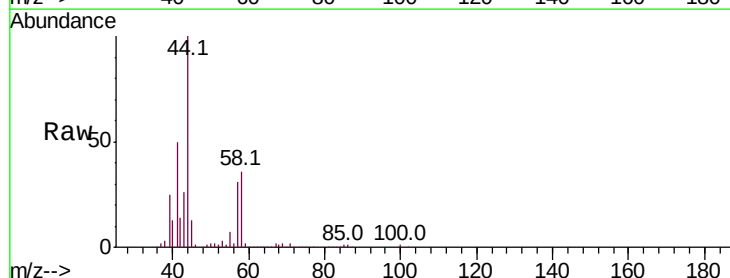
Tgt Ion: 41 Resp: 273778

Ion Ratio Lower Upper

41 100

69 0.0 72.6 108.8#

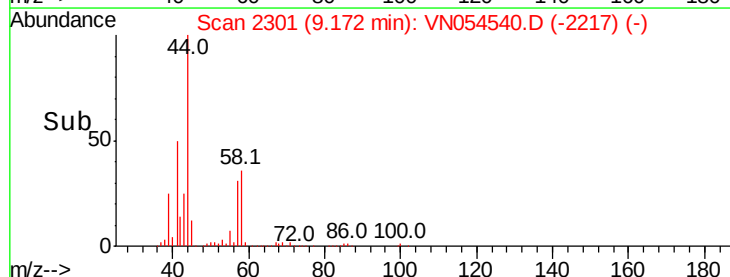
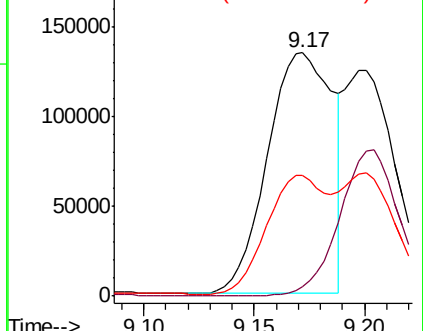
39 45.5 47.5 71.3#

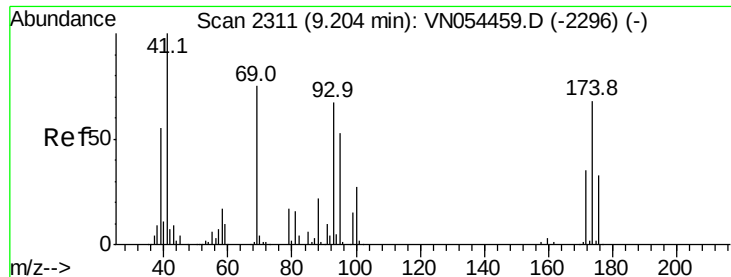


Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

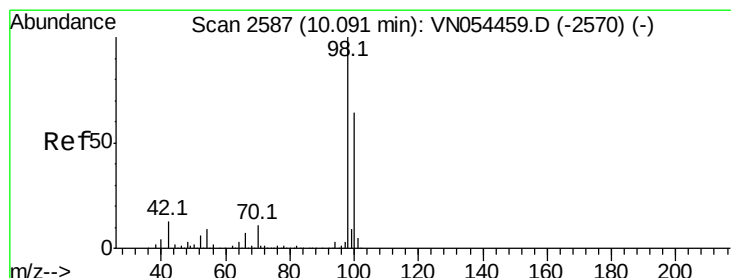
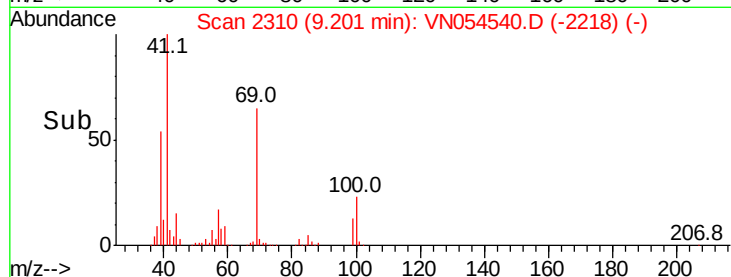
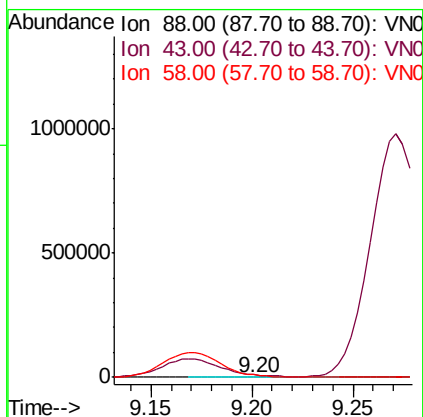
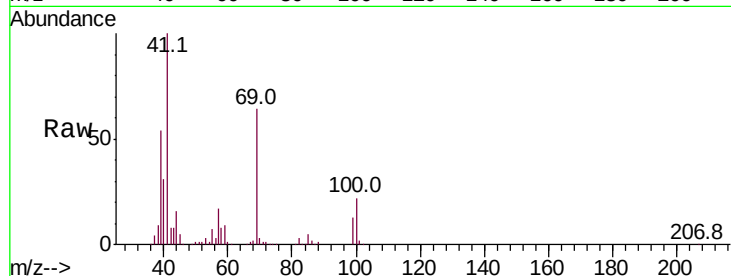




#49
1,4-Dioxane
Concen: 35.605 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. -0.00 min
Lab File: VN054540.D
Acq: 22 Mar 2019 5:29

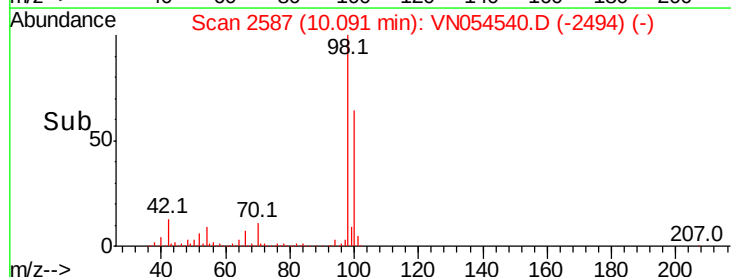
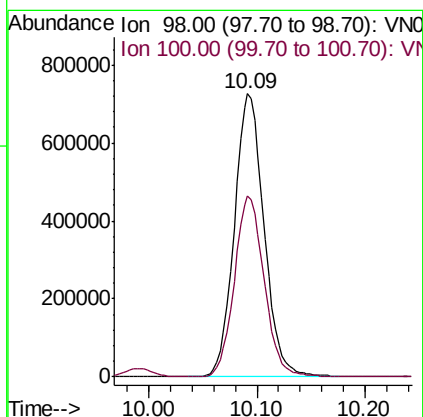
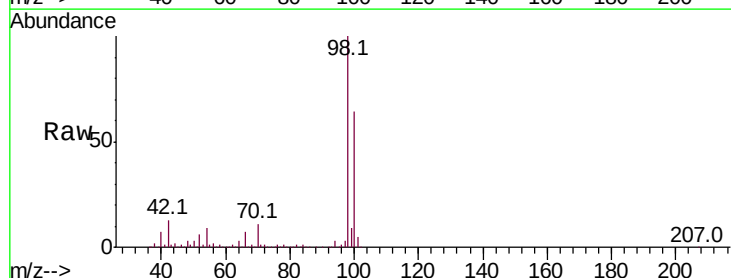
Instrument :
MSVOA_N
ClientSampled :
DRUM-1-2

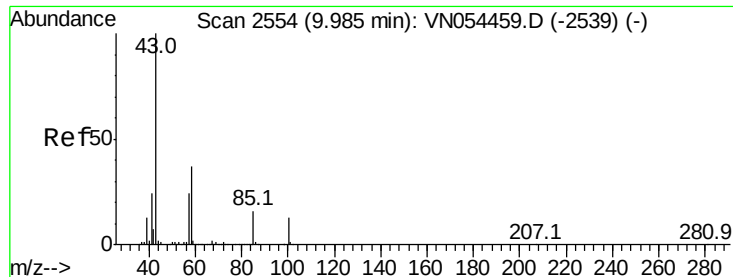
Tot Ion: 88 Resp: 2826
Ion Ratio Lower Upper
88 100
43 0.0 24.1 36.1#
58 0.0 50.8 76.2#



#50
Toluene-d8
Concen: 49.368 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054540.D
Acq: 22 Mar 2019 5:29

Tgt Ion: 98 Resp: 1392608
Ion Ratio Lower Upper
98 100
100 63.9 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 48.745 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN054540.D

Acq: 22 Mar 2019 5:29

Instrument :

MSVOA_N

ClientSampleId :

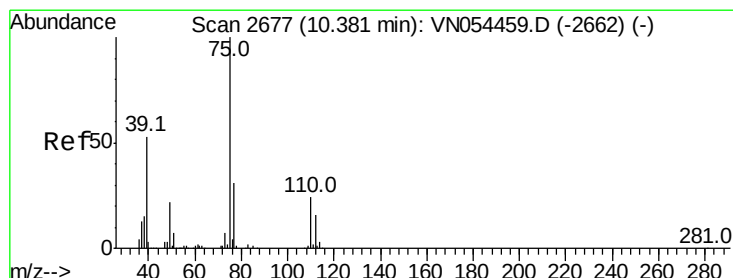
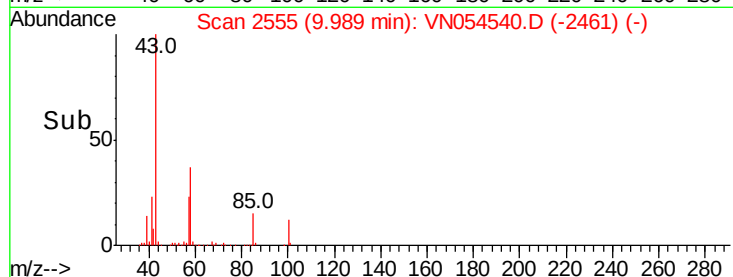
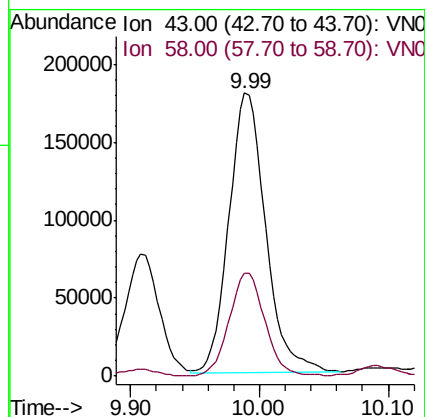
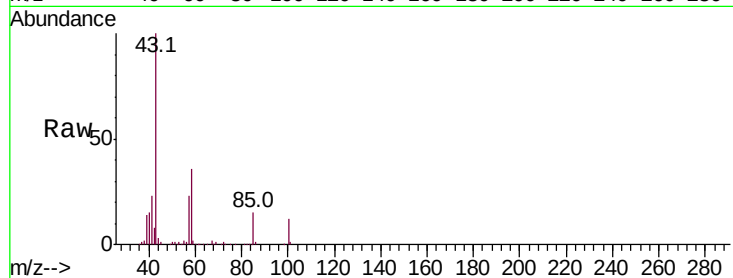
DRUM-1-2

Tot Ion: 43 Resp: 353372

Ion Ratio Lower Upper

43 100

58 35.6 31.8 47.6



#53

t-1,3-Dichloropropene

Concen: 62.900 ug/l

RT: 10.16 min Scan# 2608

Delta R.T. -0.22 min

Lab File: VN054540.D

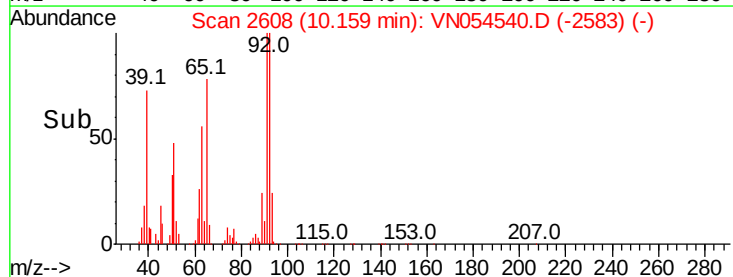
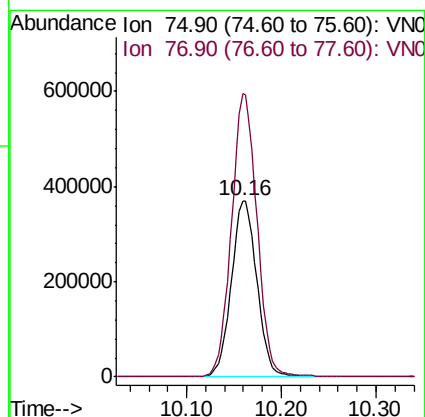
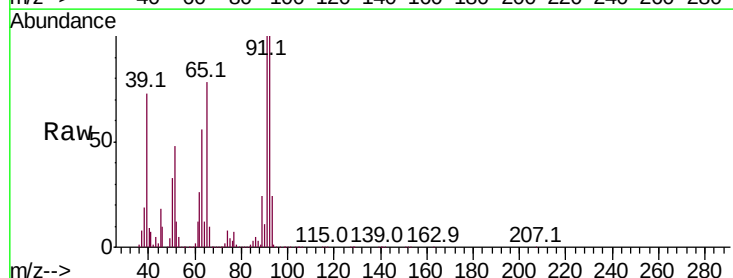
Acq: 22 Mar 2019 5:29

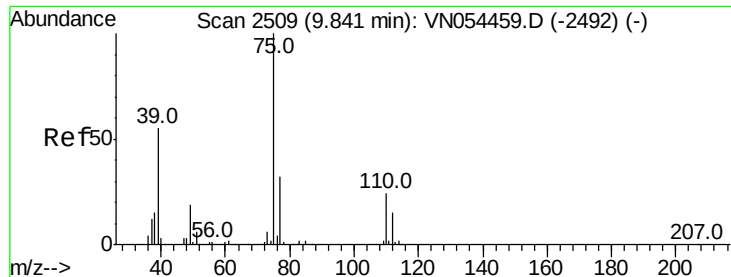
Tgt Ion: 75 Resp: 693526

Ion Ratio Lower Upper

75 100

77 160.6 25.8 38.8#





#54

cis-1,3-Dichloropropene

Concen: 5.013 ug/l

RT: 9.91 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN054540.D

Acq: 22 Mar 2019 5:29

Instrument :

MSVOA_N

ClientSampleId :

DRUM-1-2

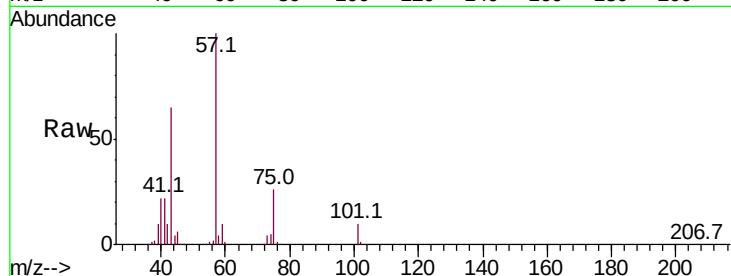
Tot Ion: 75 Resp: 59511

Ion Ratio Lower Upper

75 100

77 0.7 25.4 38.0#

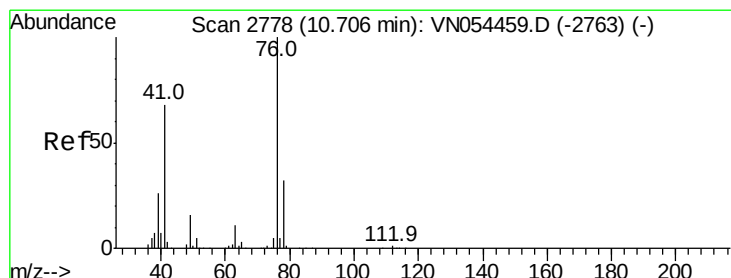
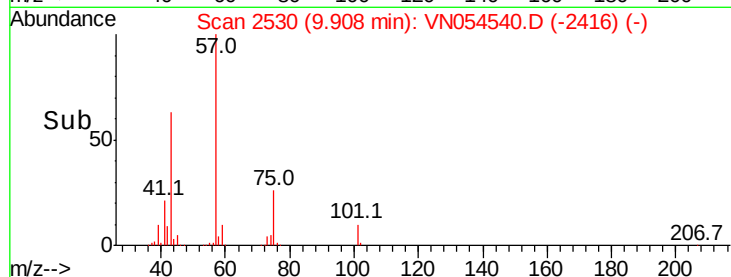
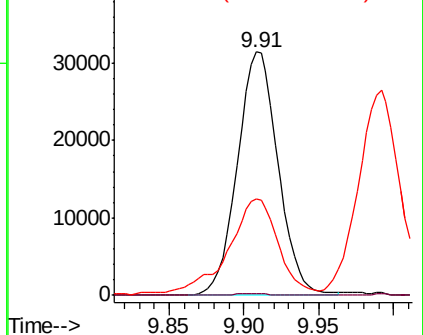
39 35.6 37.2 55.8#



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: 0.876 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN054540.D

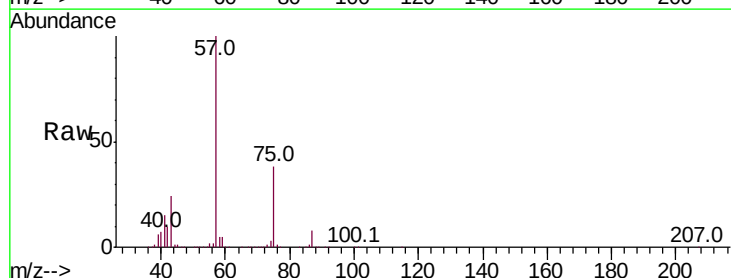
Acq: 22 Mar 2019 5:29

Tgt Ion: 76 Resp: 10481

Ion Ratio Lower Upper

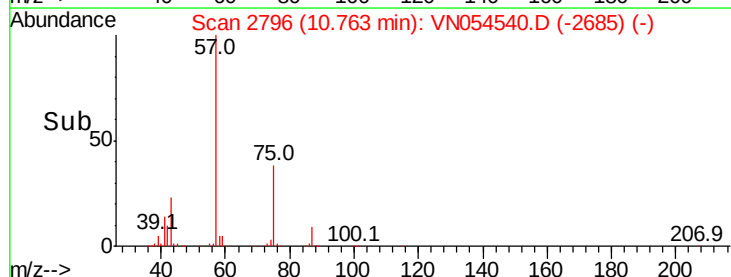
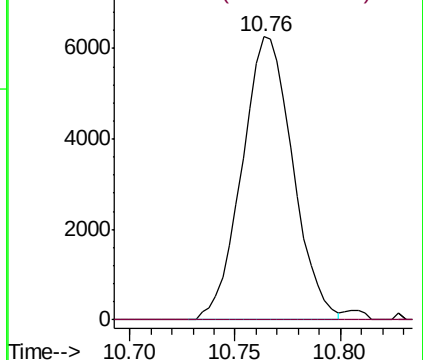
76 100

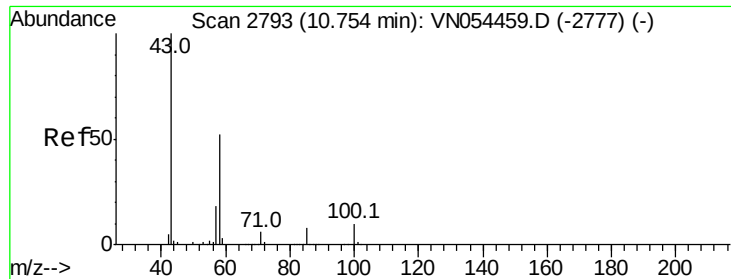
78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

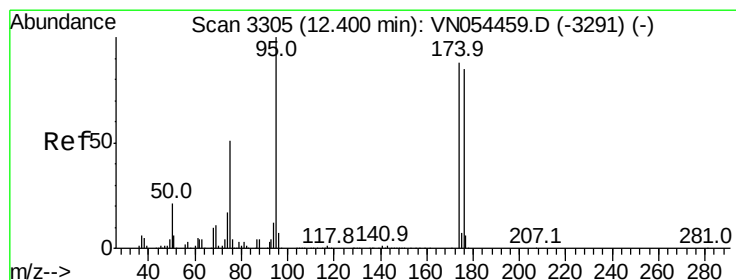
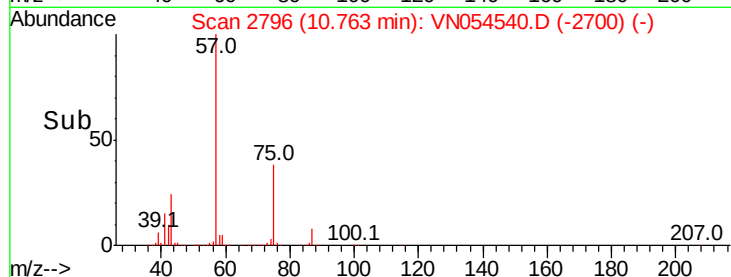
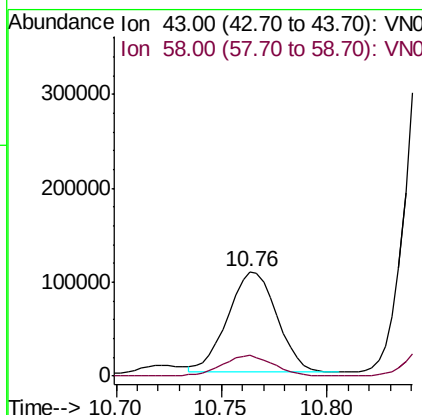
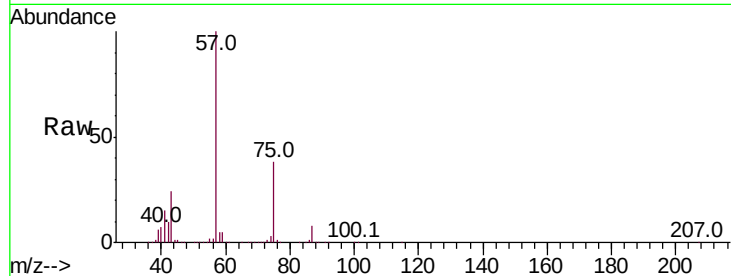




#59
2-Hexanone
Concen: 36.559 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN054540.D
Acq: 22 Mar 2019 5:29

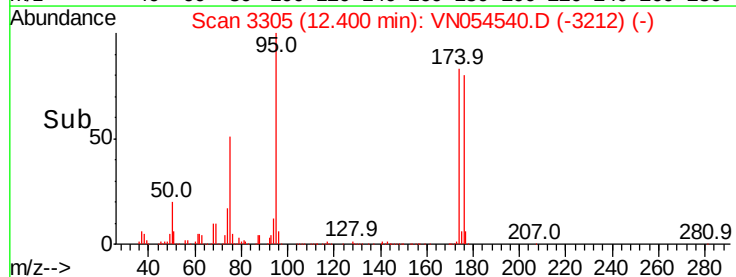
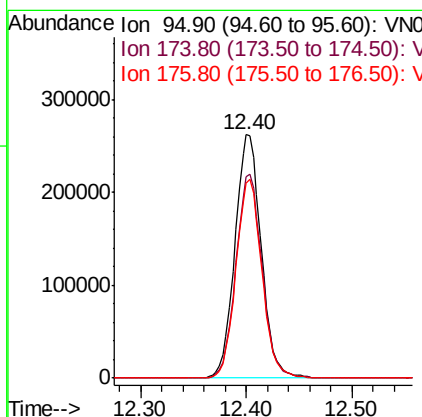
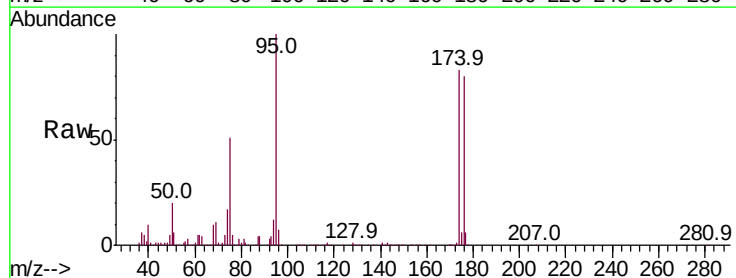
Instrument :
MSVOA_N
ClientSampleId :
DRUM-1-2

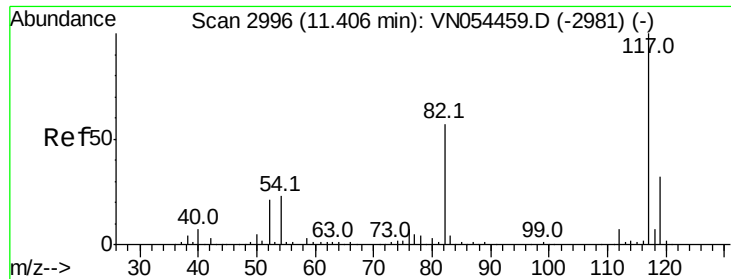
Tot Ion: 43 Resp: 173114
Ion Ratio Lower Upper
43 100
58 22.3 28.0 83.9#



#62
4-Bromofluorobenzene
Concen: 46.930 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN054540.D
Acq: 22 Mar 2019 5:29

Tgt Ion: 95 Resp: 450480
Ion Ratio Lower Upper
95 100
174 83.8 0.0 191.0
176 80.7 0.0 187.4

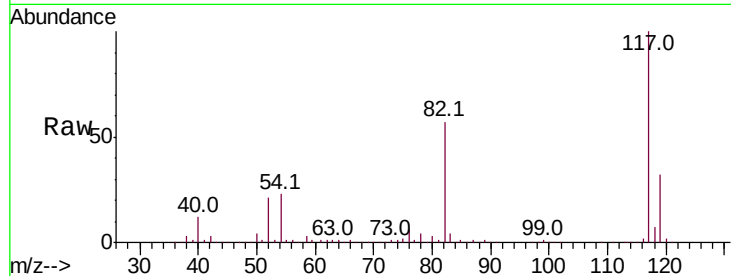




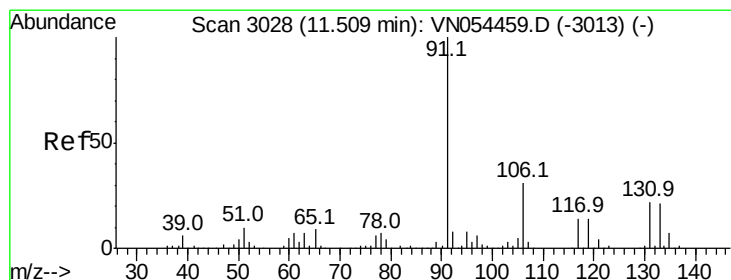
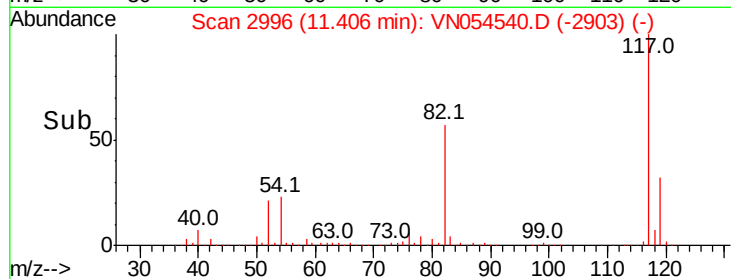
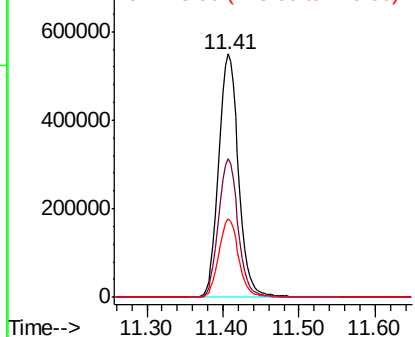
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054540.D
Acq: 22 Mar 2019 5:29

Instrument :
MSVOA_N
ClientSampled :
DRUM-1-2

Tot Ion:117 Resp: 995793
Ion Ratio Lower Upper
117 100
82 56.8 40.0 60.0
119 32.3 25.8 38.6

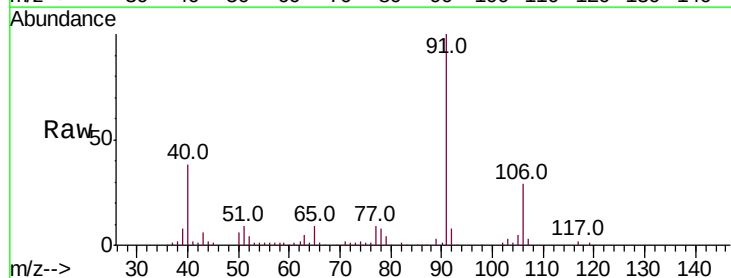


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

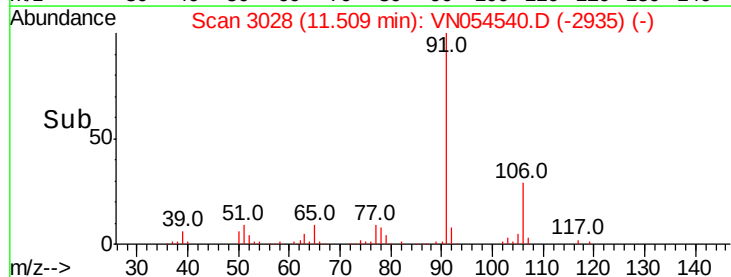
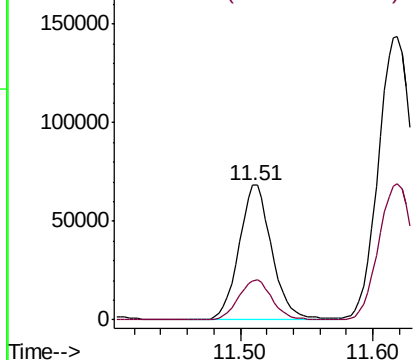


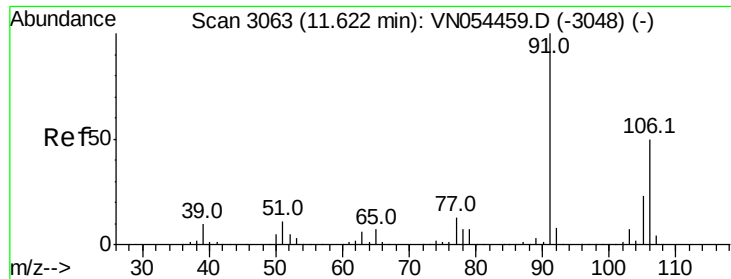
#67
Ethyl Benzene
Concen: 3.301 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN054540.D
Acq: 22 Mar 2019 5:29

Tgt Ion: 91 Resp: 118097
Ion Ratio Lower Upper
91 100
106 29.2 25.5 38.3



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xylenes

Concen: 9.709 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN054540.D

Acq: 22 Mar 2019 5:29

Instrument :

MSVOA_N

ClientSampleId :

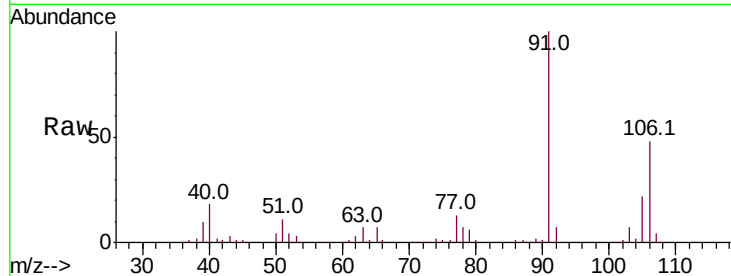
DRUM-1-2

Tot Ion:106 Resp: 131561

Ion Ratio Lower Upper

106 100

91 211.3 159.4 239.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN

150000

100000

50000

0

11.62

11.60

11.62

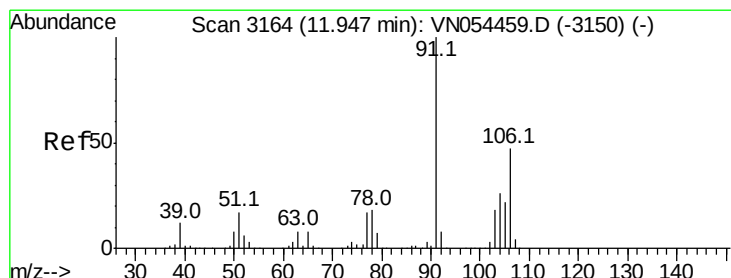
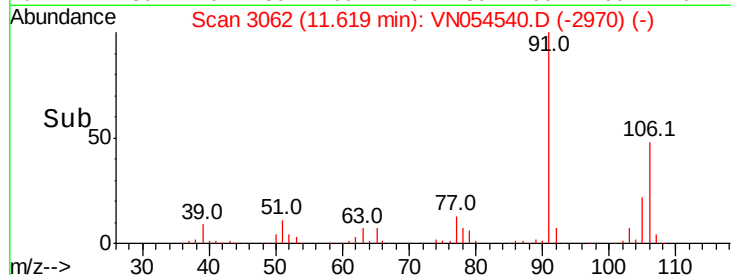
11.64

11.66

11.68

11.70

Time-->



#69

o-Xylene

Concen: 6.335 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. -0.00 min

Lab File: VN054540.D

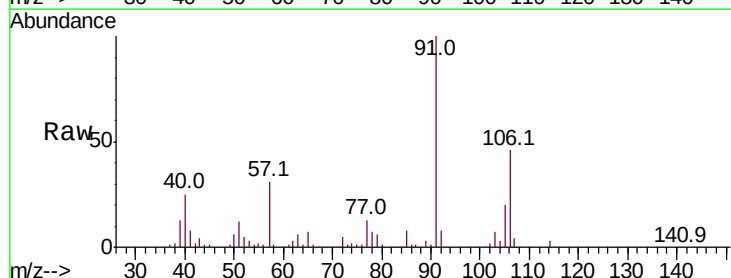
Acq: 22 Mar 2019 5:29

Tgt Ion:106 Resp: 83832

Ion Ratio Lower Upper

106 100

91 217.1 105.7 317.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN

120000

100000

80000

60000

40000

20000

0

11.95

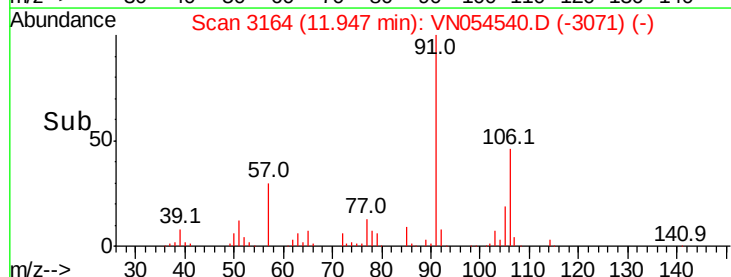
11.90

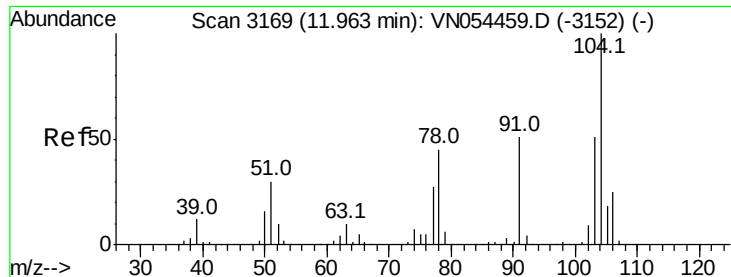
11.95

12.00

12.05

Time-->





#70

Stvrene

Concen: 0.328 ug/l

RT: 11.95 min Scan# 3165

Delta R.T. -0.01 min

Lab File: VN054540.D

Acq: 22 Mar 2019 5:29

Instrument :

MSVOA_N

ClientSampled :

DRUM-1-2

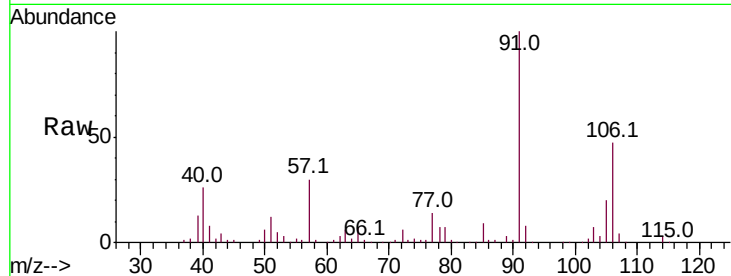
Tot Ion:104 Resp: 7045

Ion Ratio Lower Upper

104 100

78 193.6 38.2 57.2#

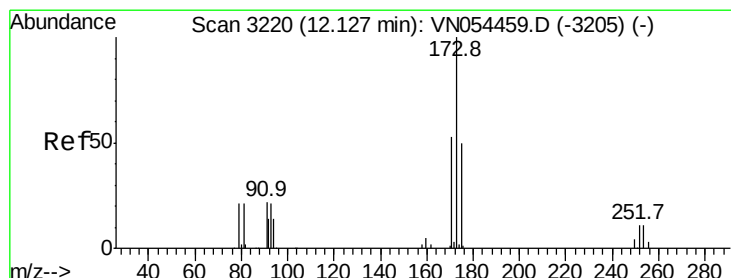
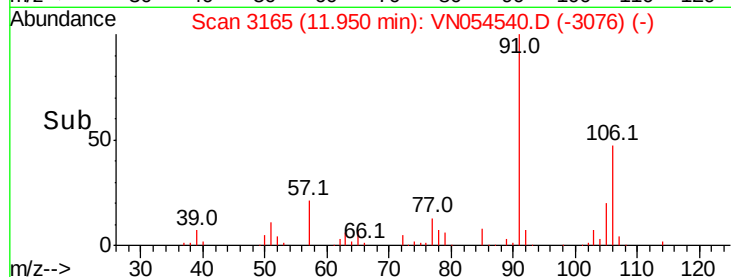
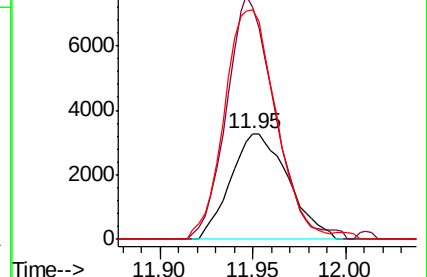
103 195.3 44.4 66.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 2.255 ug/l

RT: 12.38 min Scan# 3299

Delta R.T. 0.25 min

Lab File: VN054540.D

Acq: 22 Mar 2019 5:29

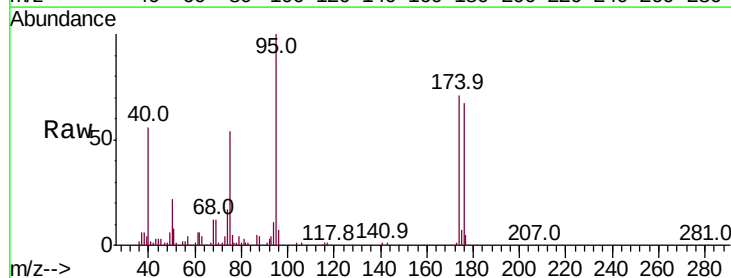
Tgt Ion:173 Resp: 181

Ion Ratio Lower Upper

173 100

175 0.0 24.4 73.2#

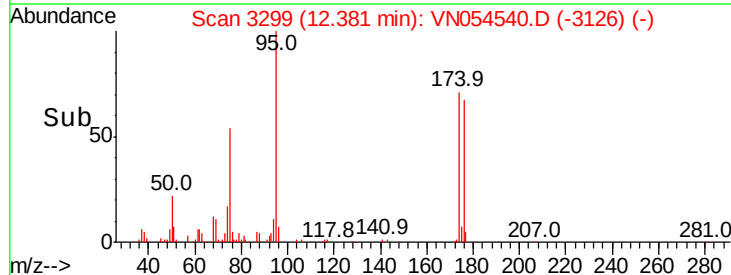
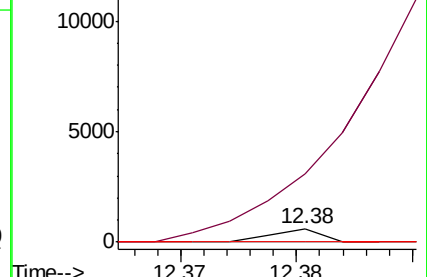
254 0.0 0.1 0.1#

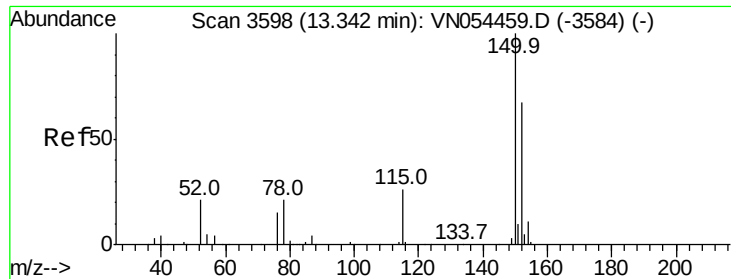


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



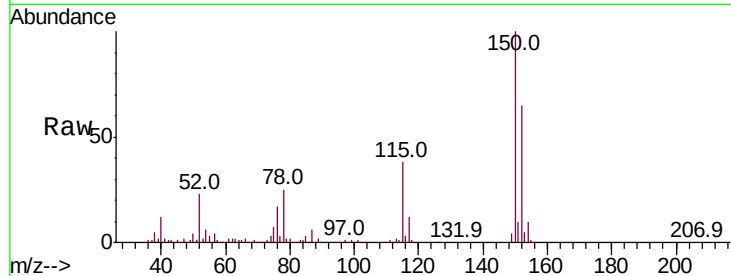


#72

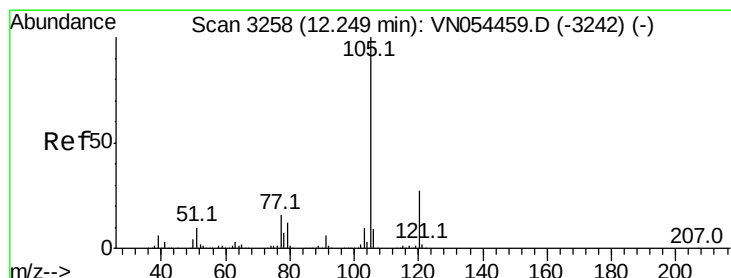
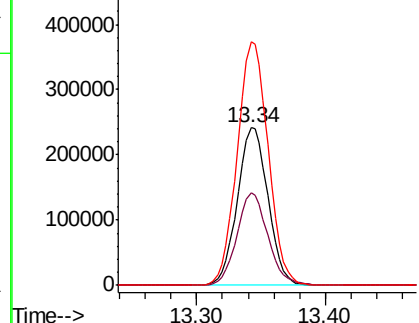
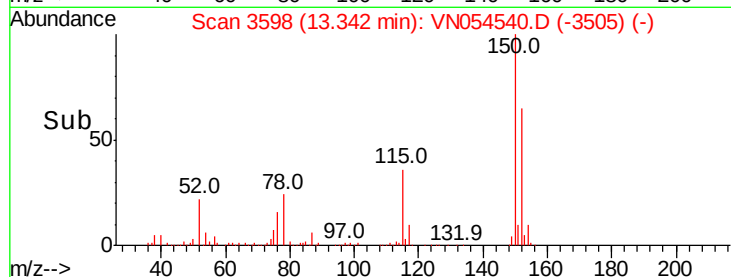
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN054540.D
Acq: 22 Mar 2019 5:29

Instrument :
MSVOA_N
ClientSampled :
DRUM-1-2

Tot Ion:152 Resp: 399113
Ion Ratio Lower Upper
152 100
115 59.4 27.2 81.6
150 155.9 0.0 349.2



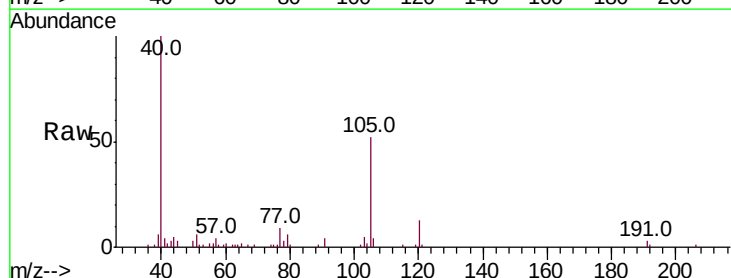
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



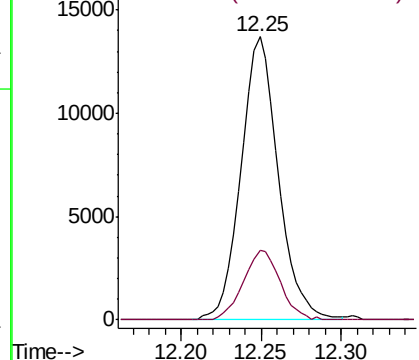
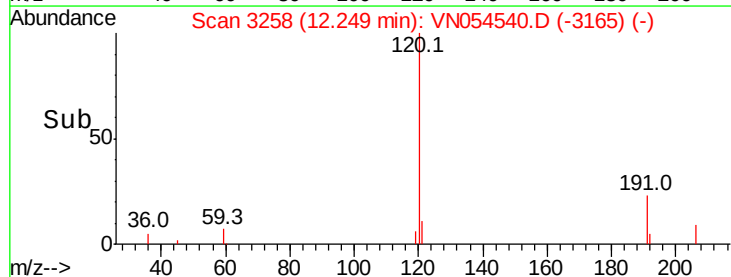
#73

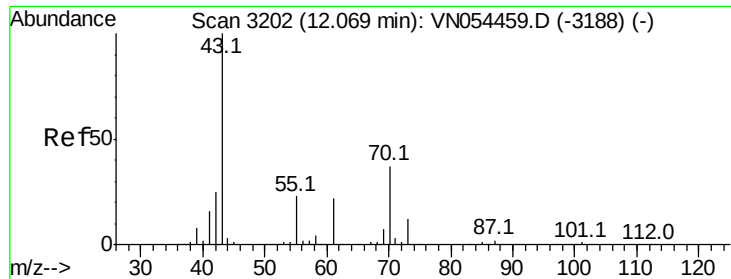
Isopropylbenzene
Concen: 0.675 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN054540.D
Acq: 22 Mar 2019 5:29

Tgt Ion:105 Resp: 21693
Ion Ratio Lower Upper
105 100
120 24.4 13.8 41.3



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 17.331 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN054540.D

Acq: 22 Mar 2019 5:29

Instrument :

MSVOA_N

ClientSampled :

DRUM-1-2

Tot Ion: 43 Resp: 160266

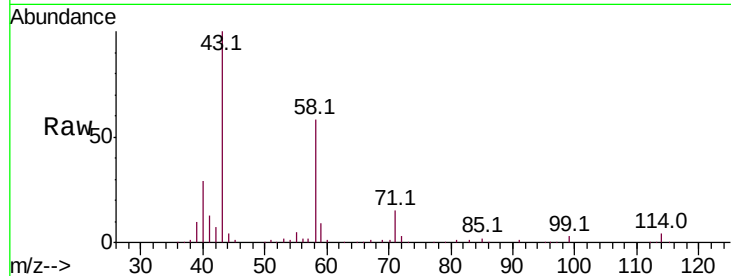
Ion Ratio Lower Upper

43 100

70 0.0 35.4 53.0#

55 4.6 19.8 29.6#

61 0.1 19.8 29.6#

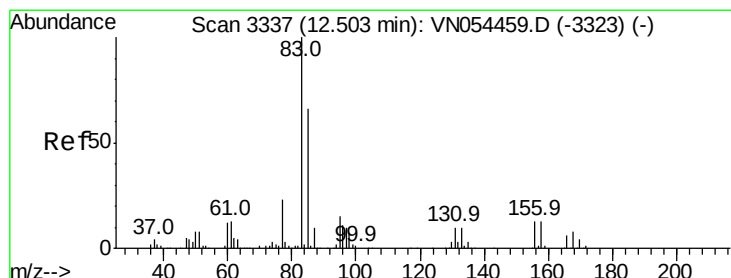
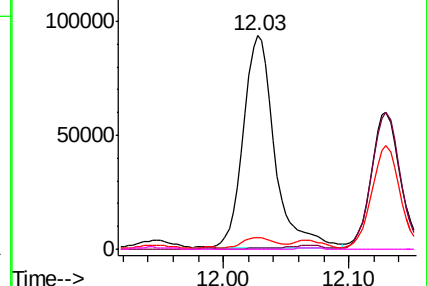
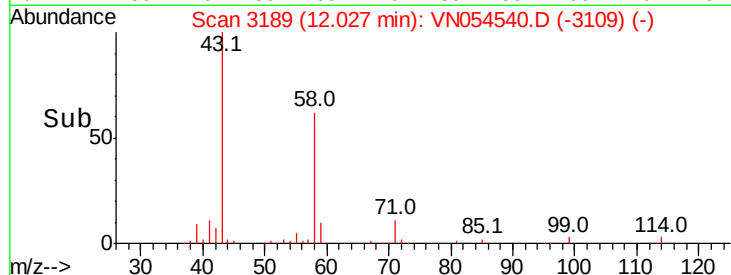


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#75

1,1,2,2-Tetrachloroethane

Concen: 1.760 ug/l

RT: 12.52 min Scan# 3342

Delta R.T. 0.02 min

Lab File: VN054540.D

Acq: 22 Mar 2019 5:29

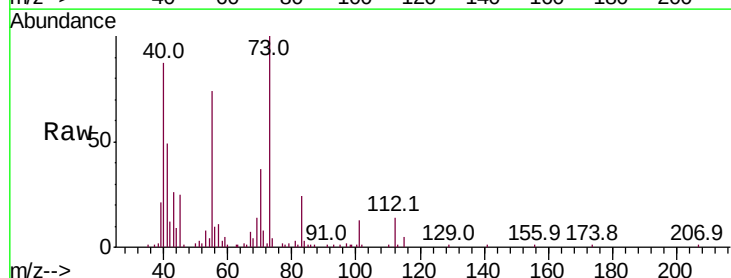
Tgt Ion: 83 Resp: 12923

Ion Ratio Lower Upper

83 100

131 0.0 5.8 17.4#

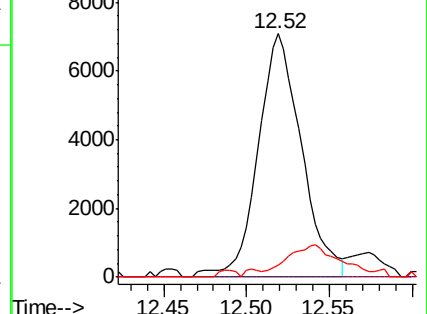
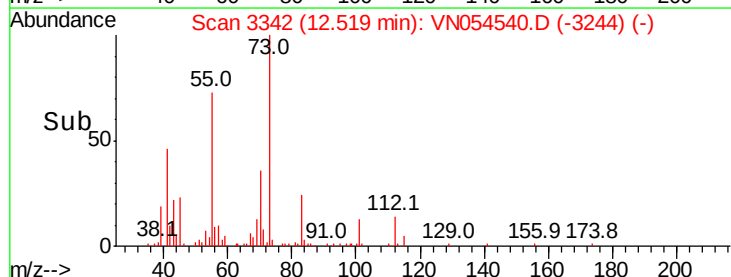
85 1.2 32.2 96.6#

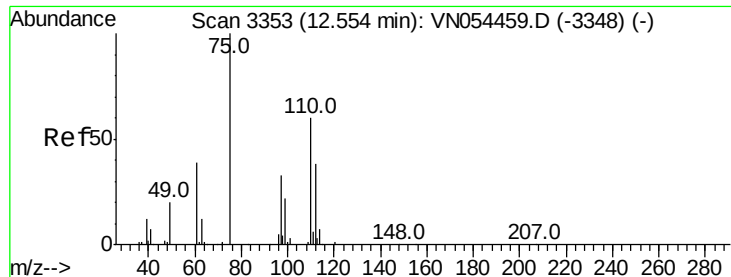


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0





#76

1,2,3-Trichloropropane

Concen: 36.345 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054540.D

Acq: 22 Mar 2019 5:29

Instrument :

MSVOA_N

ClientSampled :

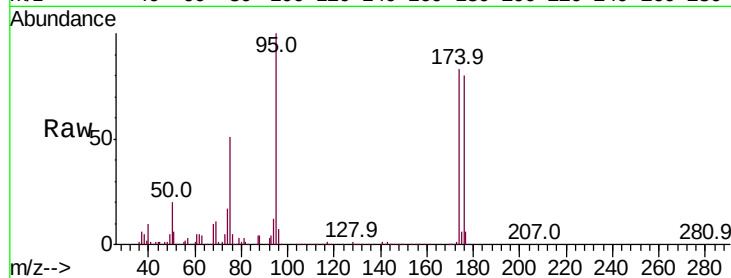
DRUM-1-2

Tot Ion: 75 Resp: 230183

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

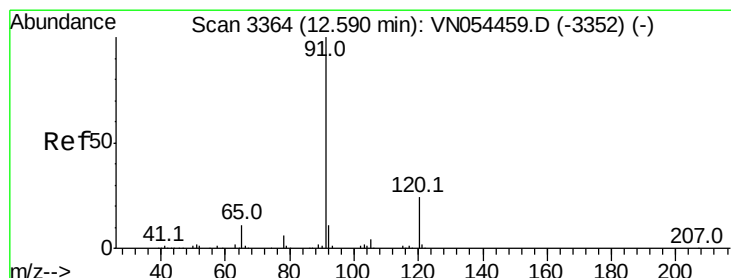
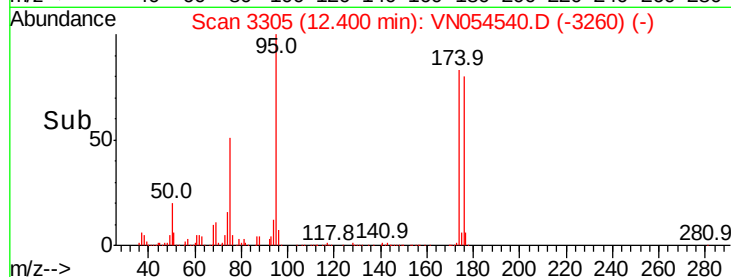
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#78

n-propylbenzene

Concen: 1.250 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN054540.D

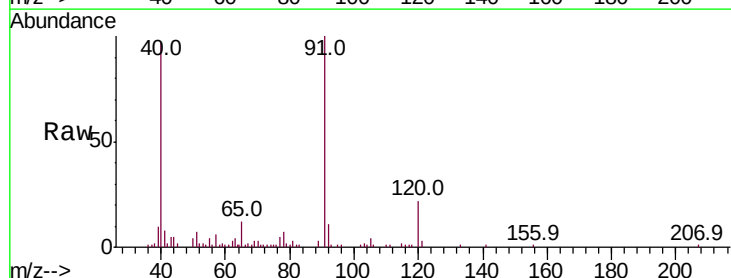
Acq: 22 Mar 2019 5:29

Tgt Ion: 91 Resp: 43608

Ion Ratio Lower Upper

91 100

120 22.8 12.3 36.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

12.59

30000

25000

20000

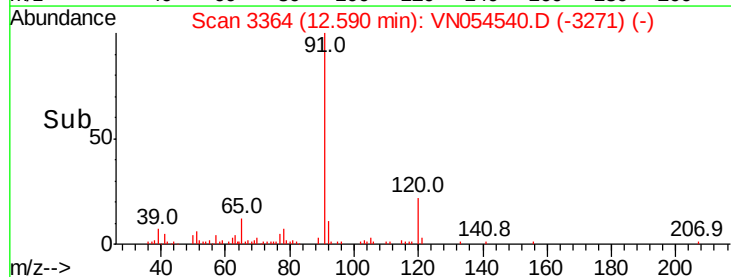
15000

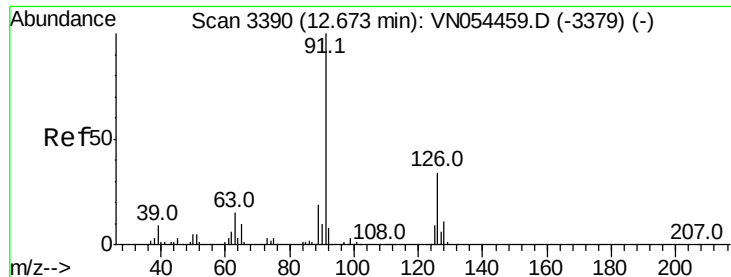
10000

5000

0

Time--> 12.55 12.60 12.65

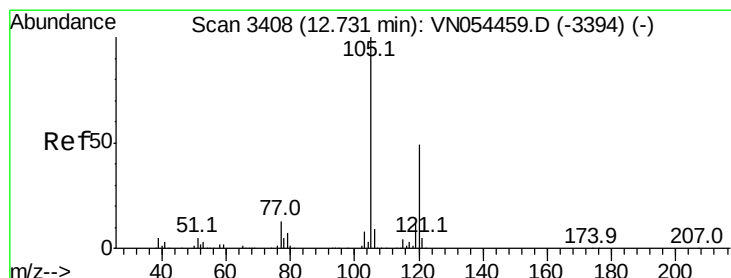
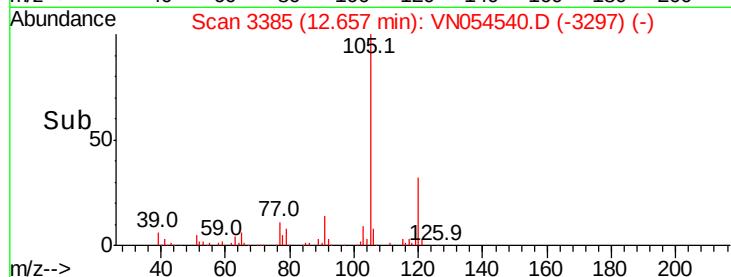
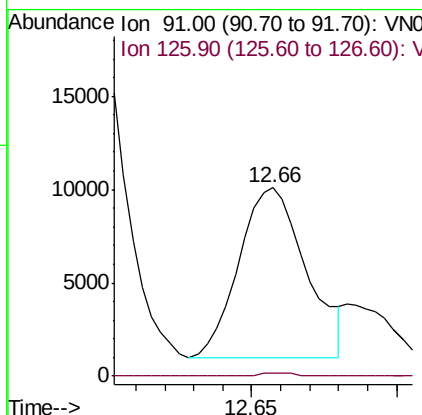
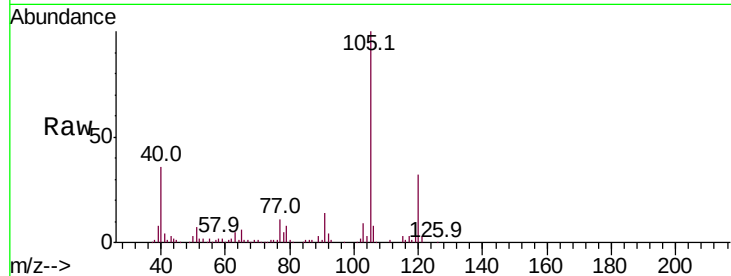




#79
 2-Chlorotoluene
 Concen: 0.677 ug/l
 RT: 12.66 min Scan# 3385
 Delta R.T. -0.02 min
 Lab File: VN054540.D
 Acq: 22 Mar 2019 5:29

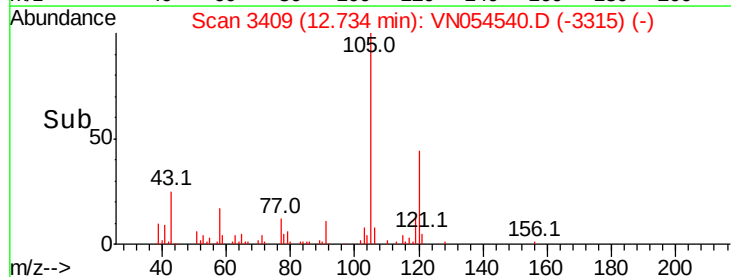
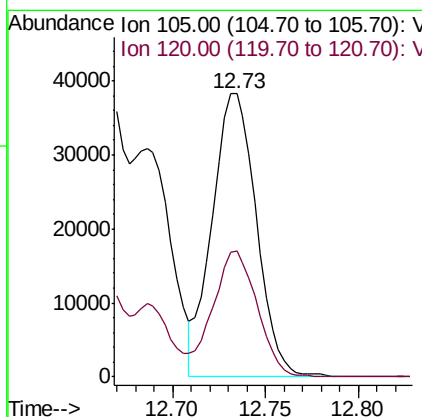
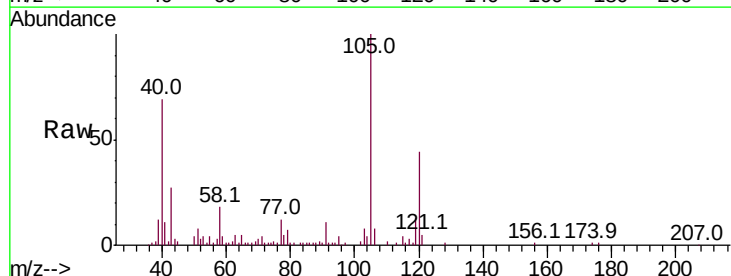
Instrument :
 MSVOA_N
 ClientSampleId :
 DRUM-1-2

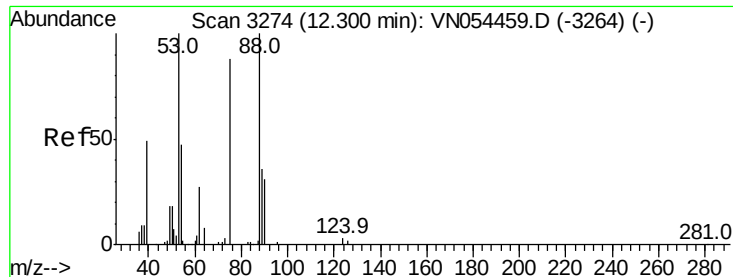
Tot Ion: 91 Resp: 14728
 Ion Ratio Lower Upper
 91 100
 126 0.9 18.7 56.1#



#80
 1,3,5-Trimethylbenzene
 Concen: 2.408 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN054540.D
 Acq: 22 Mar 2019 5:29

Tgt Ion: 105 Resp: 63460
 Ion Ratio Lower Upper
 105 100
 120 44.4 25.0 75.0





#81

trans-1,4-Dichloro-2-butene

Concen: 120.517 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054540.D

Acq: 22 Mar 2019 5:29

Instrument :

MSVOA_N

ClientSampled :

DRUM-1-2

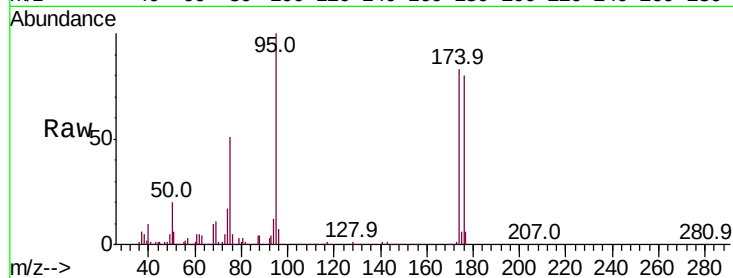
Tot Ion: 75 Resp: 230183

Ion Ratio Lower Upper

75 100

53 0.3 76.2 114.2#

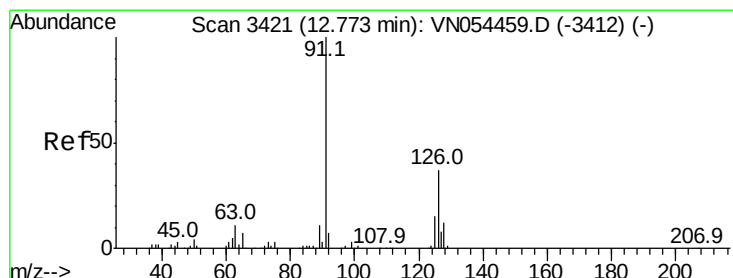
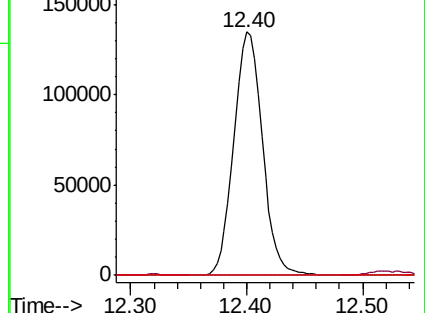
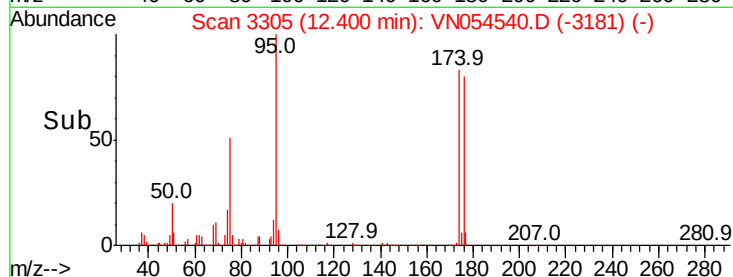
89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO



#82

4-Chlorotoluene

Concen: 0.259 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.04 min

Lab File: VN054540.D

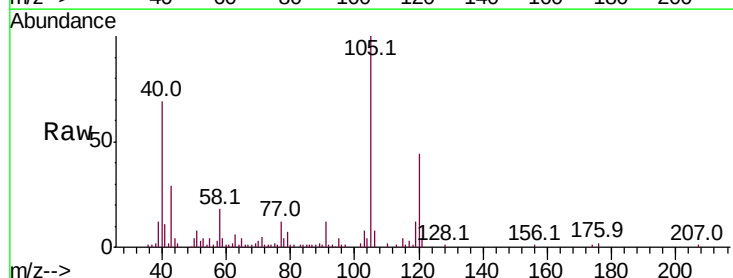
Acq: 22 Mar 2019 5:29

Tgt Ion: 91 Resp: 5456

Ion Ratio Lower Upper

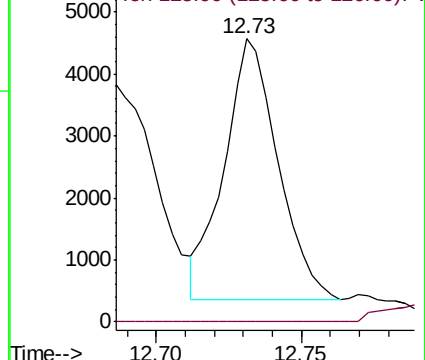
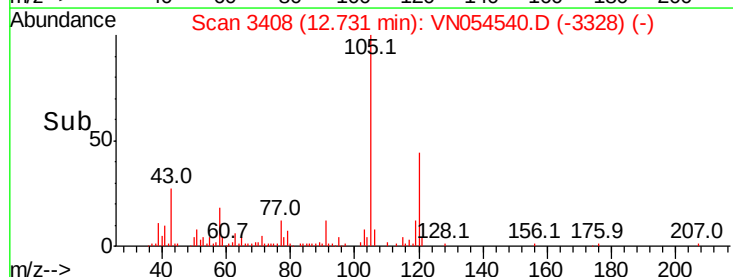
91 100

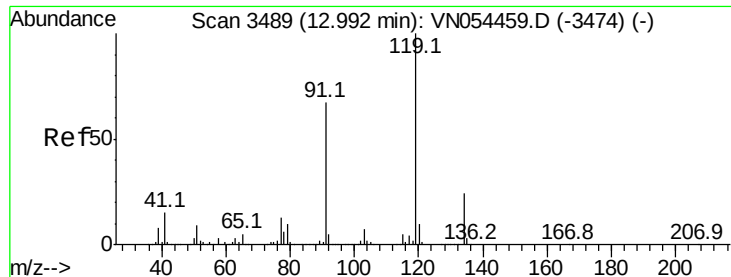
126 0.0 18.1 54.1#



Abundance Ion 91.00 (90.70 to 91.70): VNO

Ion 125.90 (125.60 to 126.60): V





#83

tert-Butylbenzene

Concen: 1.435 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.05 min

Lab File: VN054540.D

Acq: 22 Mar 2019 5:29

Instrument :

MSVOA_N

ClientSampled :

DRUM-1-2

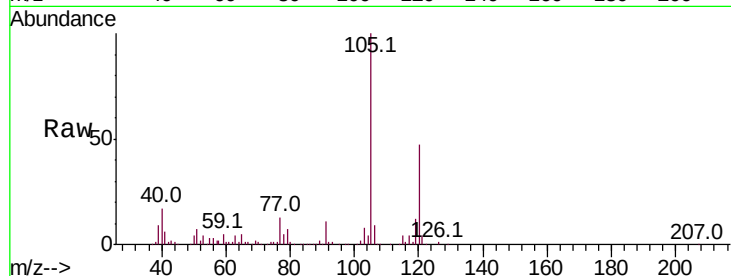
Tot Ion:119 Resp: 32936

Ion Ratio Lower Upper

119 100

91 89.3 30.9 92.8

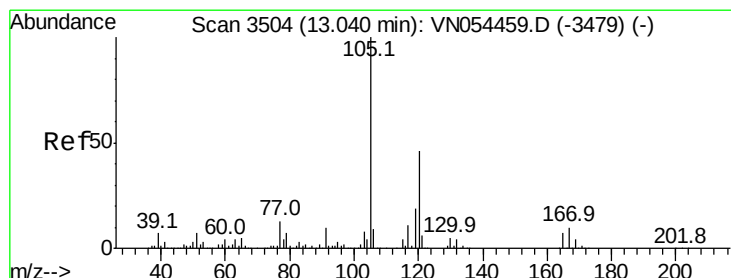
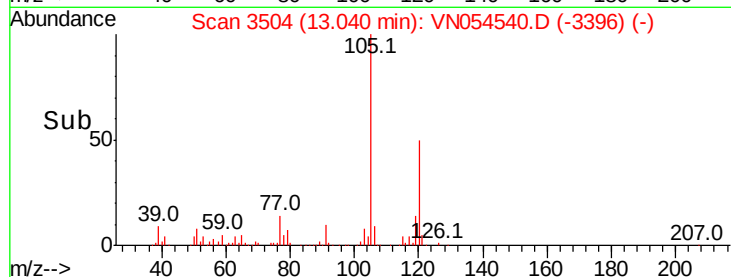
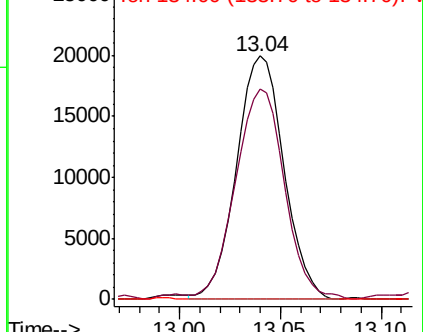
134 0.0 13.2 39.6#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 10.460 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN054540.D

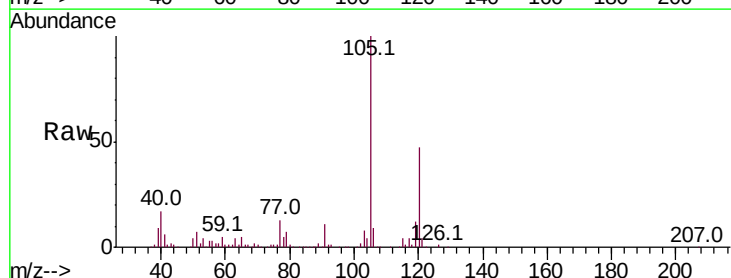
Acq: 22 Mar 2019 5:29

Tgt Ion:105 Resp: 270536

Ion Ratio Lower Upper

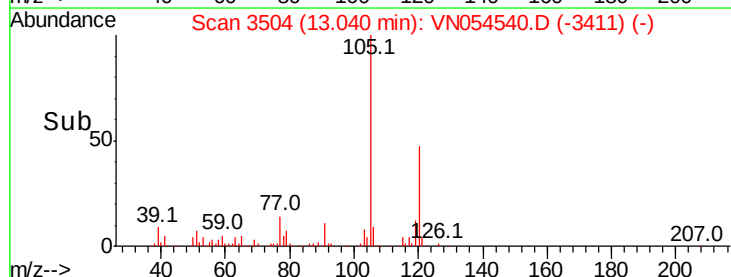
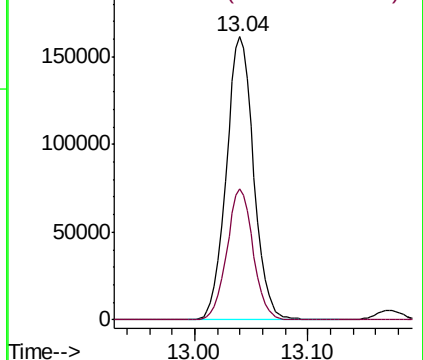
105 100

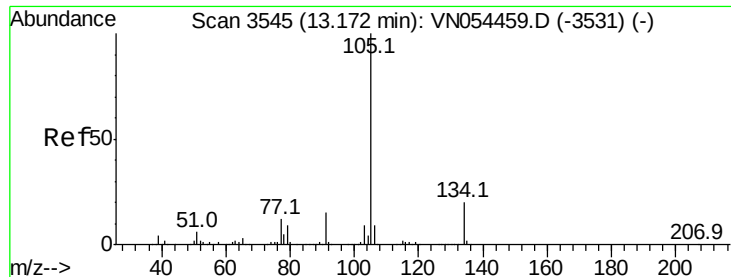
120 44.4 23.4 70.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 0.335 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN054540.D

Acq: 22 Mar 2019 5:29

Instrument :

MSVOA_N

ClientSampled :

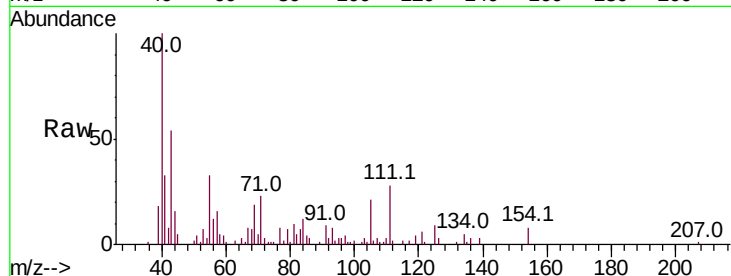
DRUM-1-2

Tot Ion:105 Resp: 9579

Ion Ratio Lower Upper

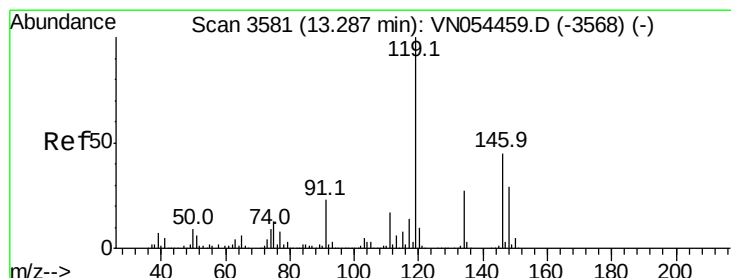
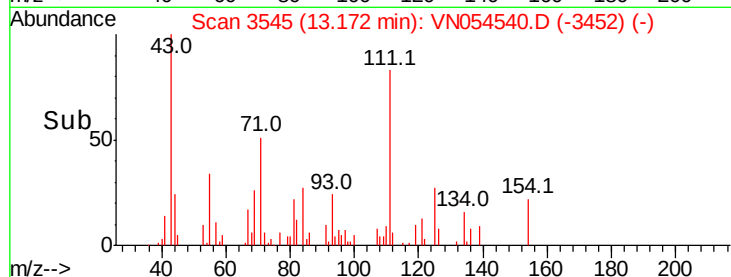
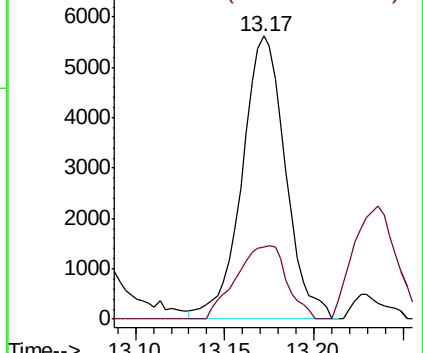
105 100

134 30.2 10.7 32.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 0.299 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN054540.D

Acq: 22 Mar 2019 5:29

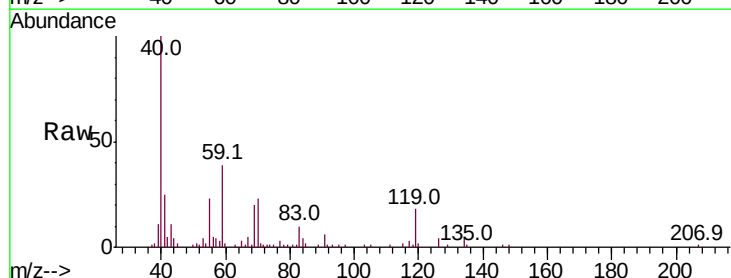
Tgt Ion:119 Resp: 7660

Ion Ratio Lower Upper

119 100

134 26.6 13.6 40.8

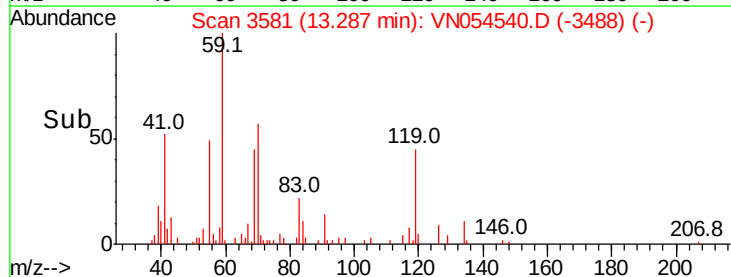
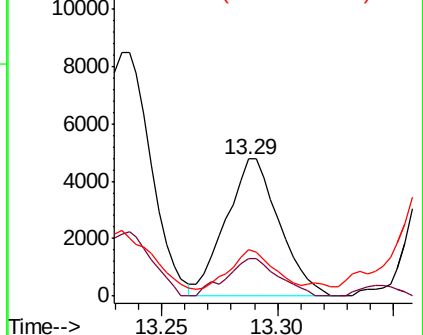
91 23.1 11.1 33.3

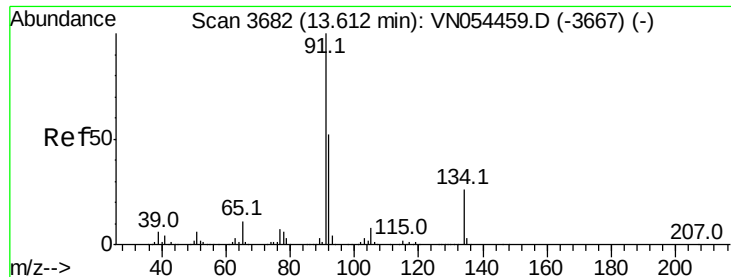


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#89

n-Butylbenzene

Concen: 0.217 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN054540.D

Acq: 22 Mar 2019 5:29

Instrument :

MSVOA_N

ClientSampled :

DRUM-1-2

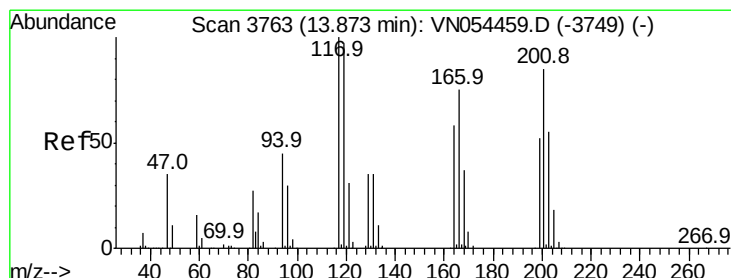
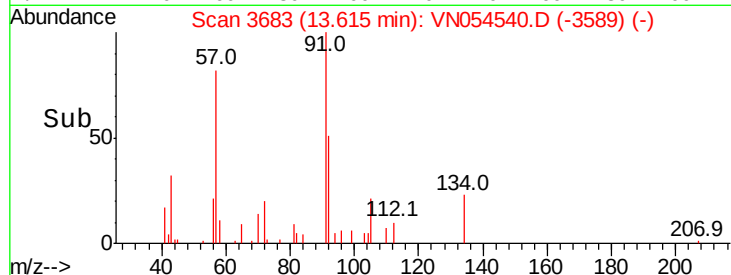
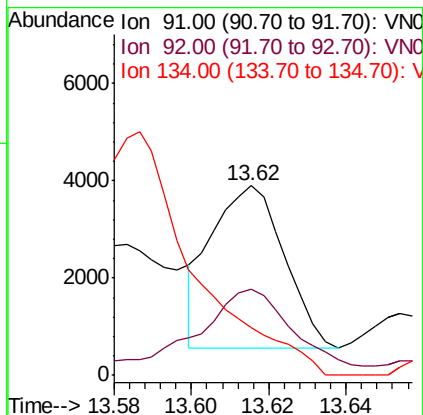
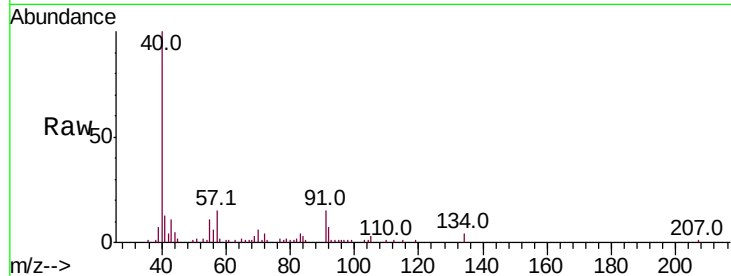
Tot Ion: 91 Resp: 4337

Ion Ratio Lower Upper

91 100

92 75.9 26.2 78.6

134 0.0 14.3 42.9#



#90

Hexachloroethane

Concen: 0.493 ug/l

RT: 13.89 min Scan# 3767

Delta R.T. 0.01 min

Lab File: VN054540.D

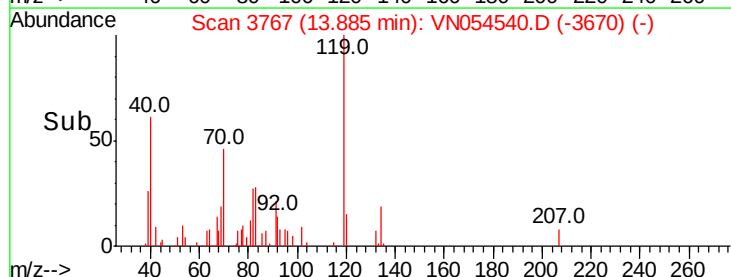
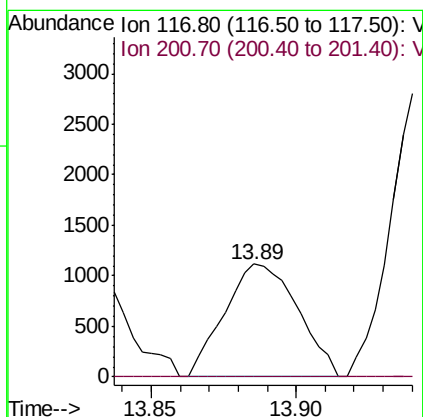
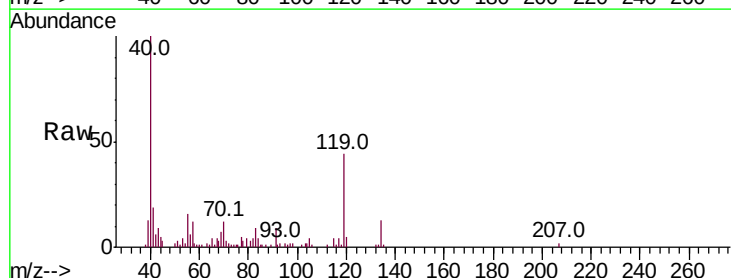
Acq: 22 Mar 2019 5:29

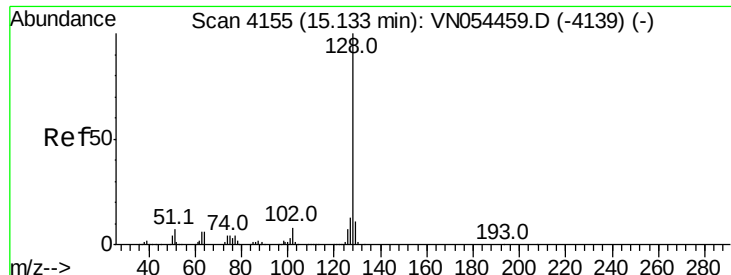
Tgt Ion: 117 Resp: 1958

Ion Ratio Lower Upper

117 100

201 0.0 48.1 144.4#





#95

Naphthalene

Concen: 2.674 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN054540.D

Acq: 22 Mar 2019 5:29

Instrument :

MSVOA_N

ClientSampleId :

DRUM-1-2

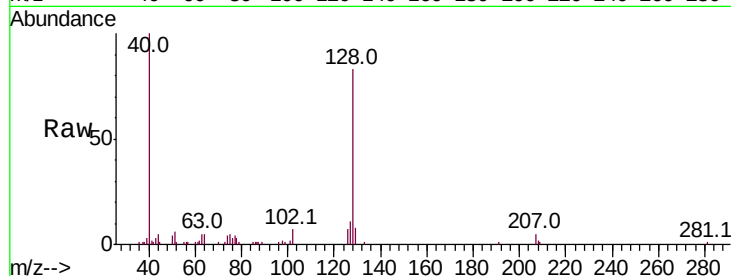
Tot Ion:128 Resp: 38073

Ion Ratio Lower Upper

128 100

127 13.1 10.1 15.1

129 10.8 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

