

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120718\
 Data File : VN052723.D
 Acq On : 7 Dec 2018 13:39
 Operator : MD\SY
 Sample : J6019-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4

Quant Time: Dec 07 22:18:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 03 03:24:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1172411	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1787751	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1556700	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	653139	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	599370	46.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.90%	
35) Dibromofluoromethane	7.59	113	545956	49.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.08%	
50) Toluene-d8	10.09	98	2193430	51.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.26%	
62) 4-Bromofluorobenzene	12.40	95	714718	49.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.16%	

Target Compounds

						Qvalue
11) Tert butyl alcohol	4.78	59	258	0.404	ug/l #	73
13) Acrolein	3.57	56	110485	99.472	ug/l #	1
14) Allyl chloride	4.44	41	15091	0.797	ug/l #	12
15) Acrylonitrile	5.06	53	44923	11.105	ug/l #	37
16) Acetone	3.81	43	169022	50.199	ug/l #	53
17) Carbon Disulfide	4.06	76	14217	0.411	ug/l	98
18) Methyl Acetate	4.54	43	675626	69.954	ug/l #	52
20) Methylene Chloride	4.54	84	4921	0.373	ug/l #	1
23) Vinyl Acetate	5.92	43	44775	1.808	ug/l #	78
24) 1,1-Dichloroethane	5.92	63	14246	0.628	ug/l #	84
25) 2-Butanone	6.82	43	16954	3.553	ug/l #	50
29) Tetrahydrofuran	7.22	42	2468	0.802	ug/l #	35
30) Chloroform	7.39	83	39733	1.754	ug/l #	81
31) Cyclohexane	7.65	56	784158	35.583	ug/l	96
36) 1,1-Dichloropropene	7.67	75	80802	4.786	ug/l #	61
37) Ethyl Acetate	6.82	43	16954	1.646	ug/l #	78
38) Carbon Tetrachloride	7.66	117	102797	6.726	ug/l #	16
39) Methylcyclohexane	9.08	83	459556	22.396	ug/l	98
40) Benzene	8.04	78	559162	11.114	ug/l	99
41) Methacrylonitrile	7.21	41	22083	3.920	ug/l #	45
43) Isopropyl Acetate	8.15	43	90376	5.183	ug/l #	51
45) 1,2-Dichloropropane	9.09	63	3076	0.230	ug/l #	1
47) Bromodichloromethane	9.39	83	39640	2.462	ug/l #	25
48) Methyl methacrylate	9.22	41	5864	0.645	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	2835	0.290	ug/l	87
52) Toluene	10.16	92	217390	7.272	ug/l	100
55) 1,1,2-Trichloroethane	10.53	97	77893	7.408	ug/l #	18
56) Ethyl methacrylate	10.43	69	7176	3.158	ug/l #	18
58) 2-Chloroethyl Vinyl ether	9.67	63	7129	0.934	ug/l #	49
59) 2-Hexanone	10.76	43	1706	0.260	ug/l	89
67) Ethyl Benzene	11.51	91	641170	11.406	ug/l	99
68) m/p-Xylenes	11.62	106	487225	23.283	ug/l	99
69) o-Xylene	11.95	106	23190	1.141	ug/l	98
71) Bromoform	12.40	173	4247	0.575	ug/l #	1

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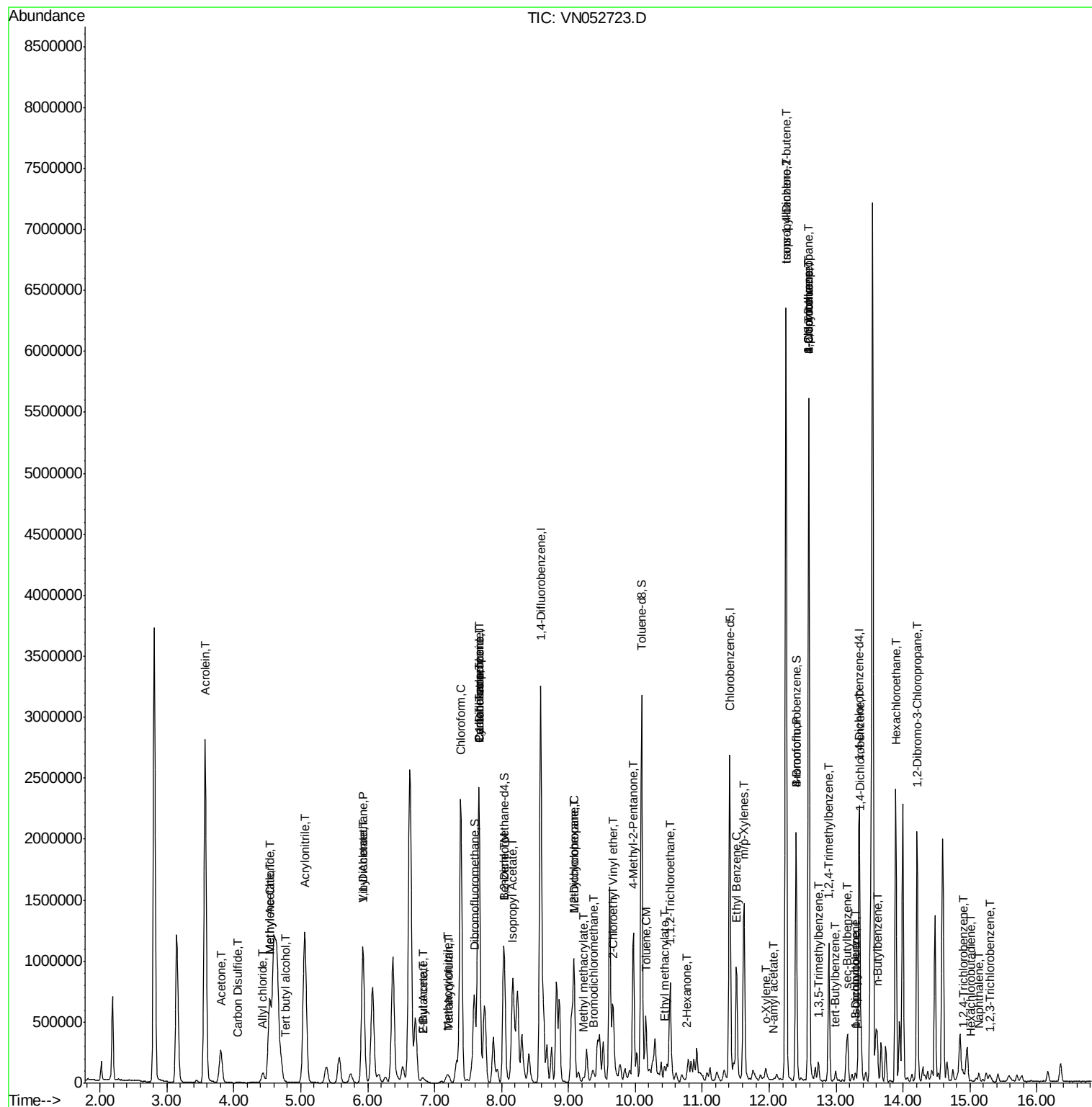
73) Isopropylbenzene	12.25	105	4262722	83.187	ug/l	100
74) N-amyl acetate	12.07	43	2747	0.212	ug/l #	26
76) 1,2,3-Trichloropropane	12.59	75	25824	2.564	ug/l #	100
78) n-propylbenzene	12.59	91	4590246	78.851	ug/l	100
79) 2-Chlorotoluene	12.59	91	4590246	132.411	ug/l #	40
80) 1,3,5-Trimethylbenzene	12.73	105	76414	1.870	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.25	75	45071	14.944	ug/l #	61
82) 4-Chlorotoluene	12.59	91	4590246	131.381	ug/l #	41
83) tert-Butylbenzene	12.99	119	40622	1.115	ug/l	96
84) 1,2,4-Trimethylbenzene	12.89	105	731997	17.872	ug/l	78
85) sec-Butylbenzene	13.17	105	239617	4.829	ug/l #	67
86) p-Isopropyltoluene	13.29	119	32140	0.760	ug/l #	78
87) 1,3-Dichlorobenzene	13.28	146	4590	0.207	ug/l	83
88) 1,4-Dichlorobenzene	13.36	146	4979	0.228	ug/l #	1
89) n-Butylbenzene	13.62	91	251255	7.148	ug/l	93
90) Hexachloroethane	13.89	117	124565	17.405	ug/l #	6
92) 1,2-Dibromo-3-Chloropropan	14.21	75	8431	5.057	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.91	180	9482	3.601	ug/l #	39
94) Hexachlorobutadiene	15.01	225	2420	0.355	ug/l	92
95) Naphthalene	15.13	128	57433	5.604	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	9933	3.608	ug/l #	81

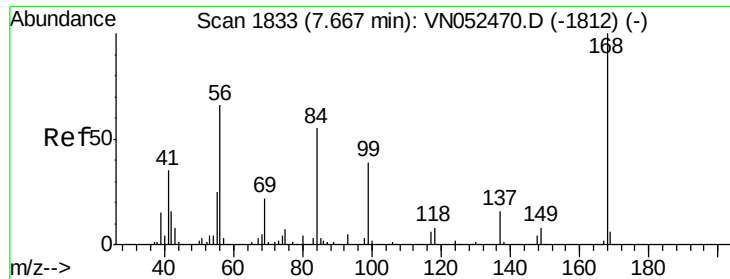
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

Instrument :

MSVOA_N

ClientSampled :

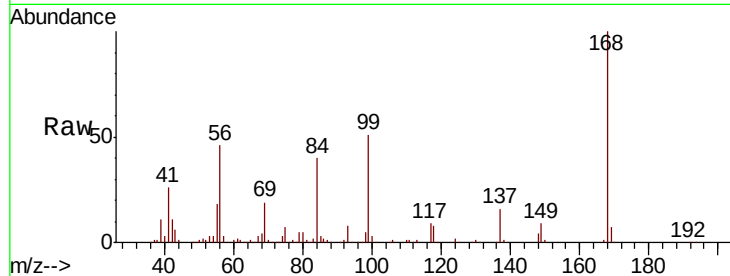
MW-4

Tot Ion:168 Resp: 1172411

Ion Ratio Lower Upper

168 100

99 51.1 41.7 62.5



Abundance Ion 167.90 (167.60 to 168.60): VN052723.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN052723.D (-1740) (-)

7.67

500000

400000

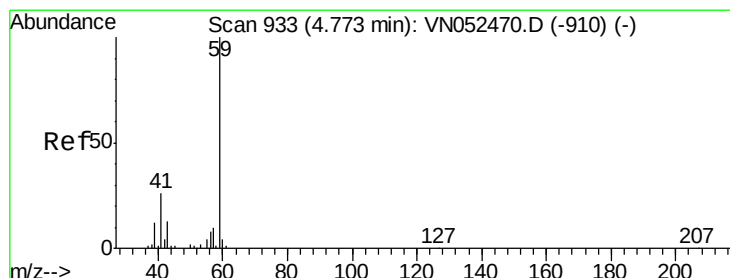
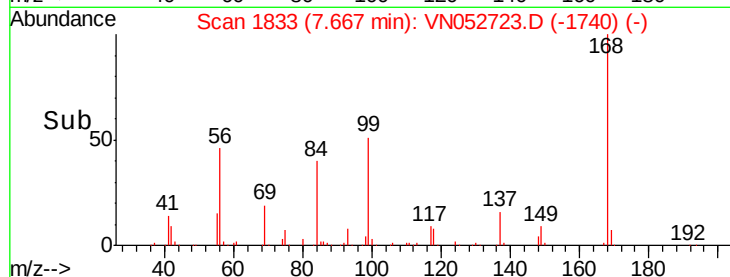
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.404 ug/l

RT: 4.78 min Scan# 935

Delta R.T. 0.01 min

Lab File: VN052723.D

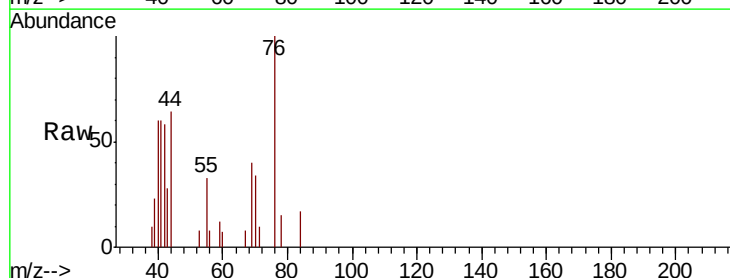
Acq: 7 Dec 2018 13:39

Tgt Ion: 59 Resp: 258

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VN052723.D (-840) (-)

Ion 57.00 (56.70 to 57.70): VN052723.D (-840) (-)

4.78

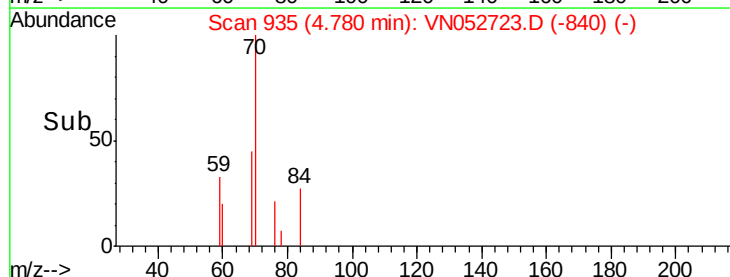
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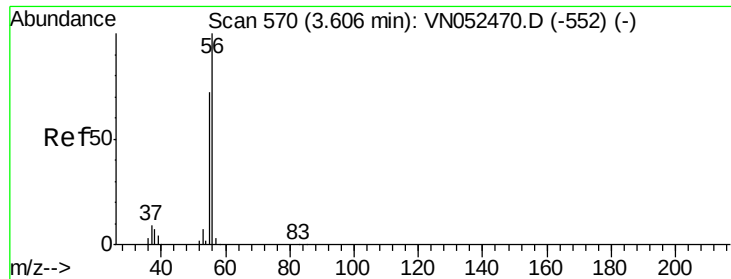
200

100

0

Time-->





#13

Acrolein

Concen: 99.472 ug/l

RT: 3.57 min Scan# 559

Delta R.T. -0.04 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

Instrument :

MSVOA_N

ClientSampled :

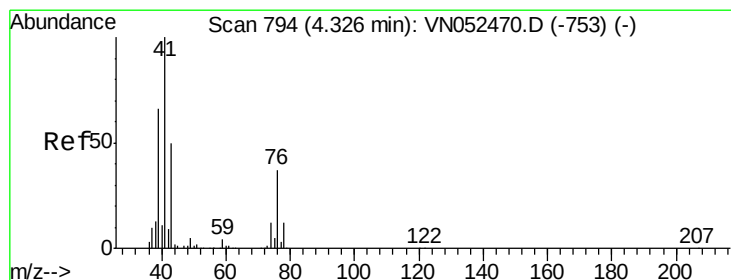
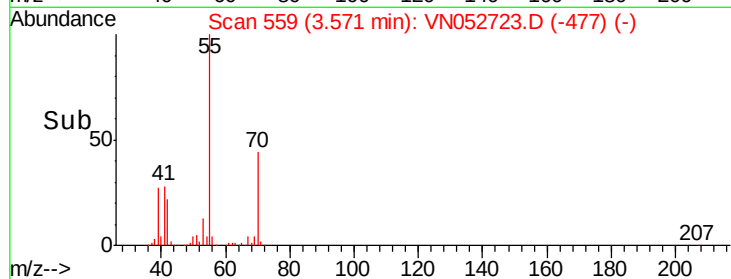
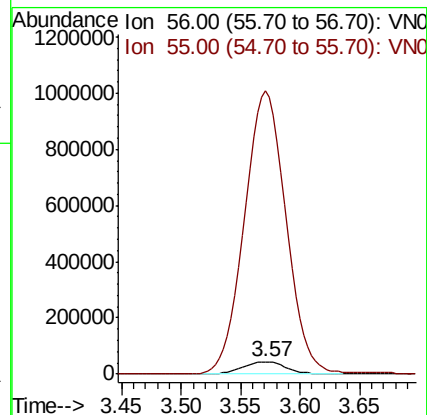
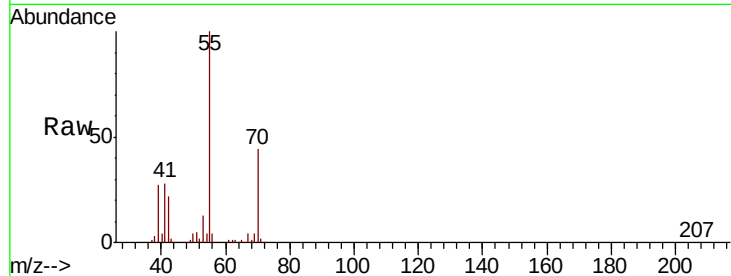
MW-4

Tot Ion: 56 Resp: 110485

Ion Ratio Lower Upper

56 100

55 2226.3 56.8 85.2#



#14

Allyl chloride

Concen: 0.797 ug/l

RT: 4.44 min Scan# 828

Delta R.T. 0.11 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

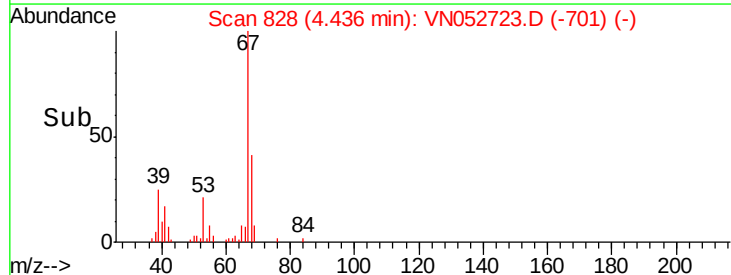
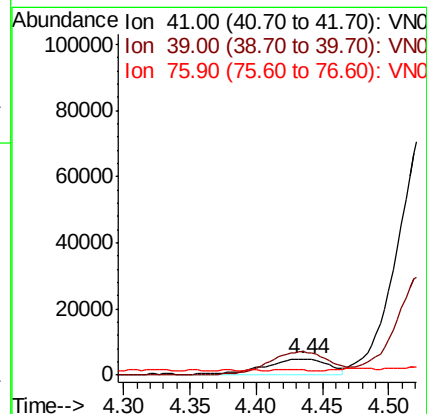
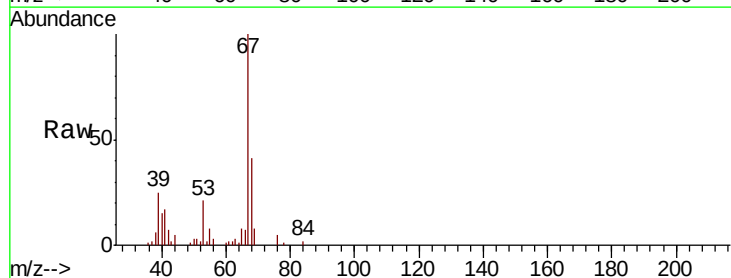
Tgt Ion: 41 Resp: 15091

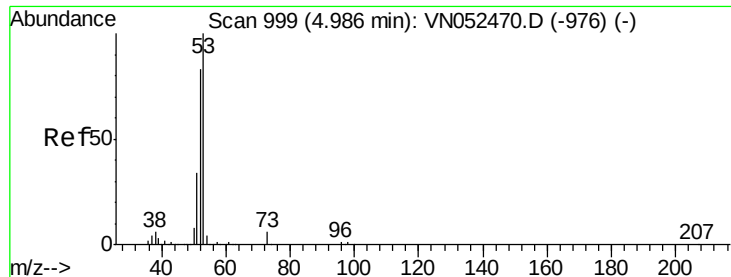
Ion Ratio Lower Upper

41 100

39 147.0 50.6 76.0#

76 4.0 27.4 41.2#





#15

Acrylonitrile

Concen: 11.105 ug/l

RT: 5.06 min Scan# 1021

Delta R.T. 0.07 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

Instrument :

MSVOA_N

ClientSampled :

MW-4

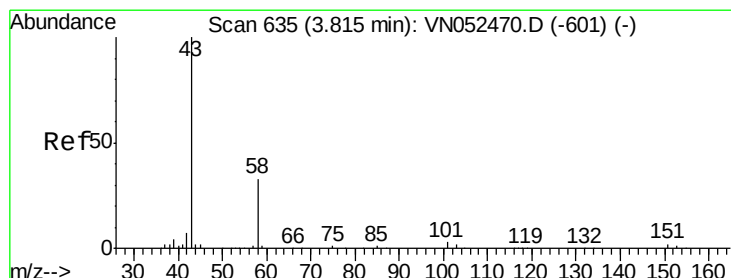
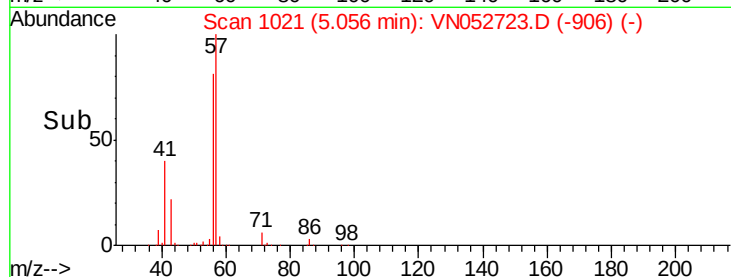
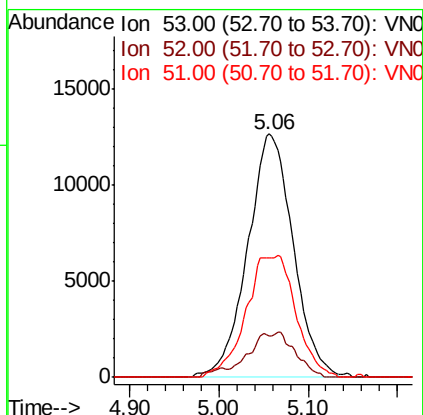
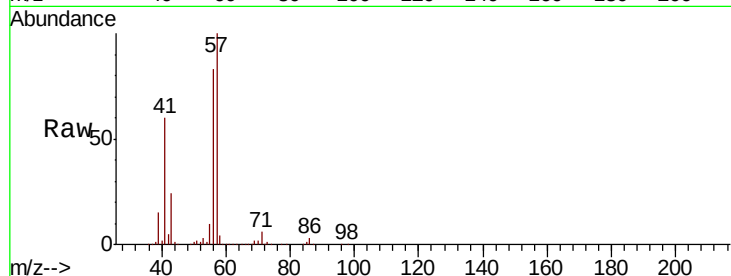
Tot Ion: 53 Resp: 44923

Ion Ratio Lower Upper

53 100

52 5.9 66.2 99.2#

51 29.5 28.1 42.1



#16

Acetone

Concen: 50.199 ug/l

RT: 3.81 min Scan# 632

Delta R.T. -0.01 min

Lab File: VN052723.D

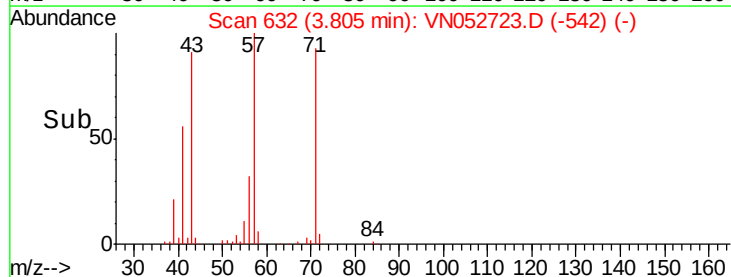
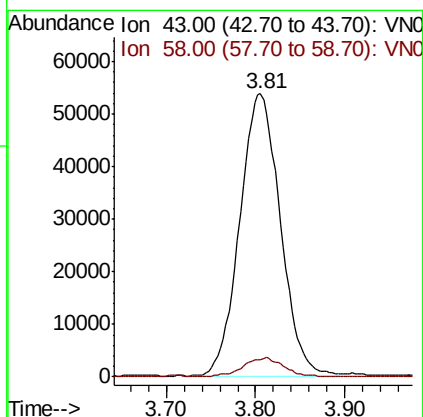
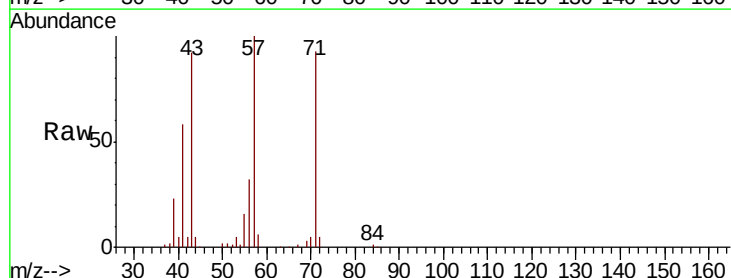
Acq: 7 Dec 2018 13:39

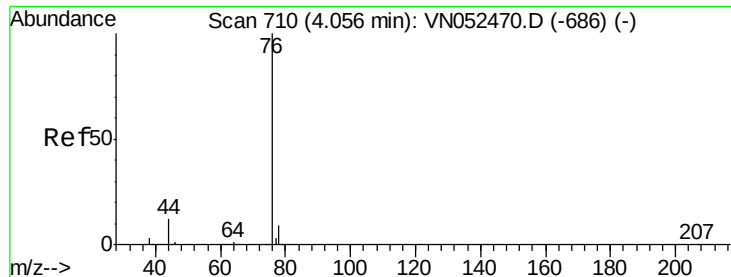
Tgt Ion: 43 Resp: 169022

Ion Ratio Lower Upper

43 100

58 6.3 26.0 39.0#





#17

Carbon Disulfide

Concen: 0.411 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

Instrument :

MSVOA_N

ClientSampled :

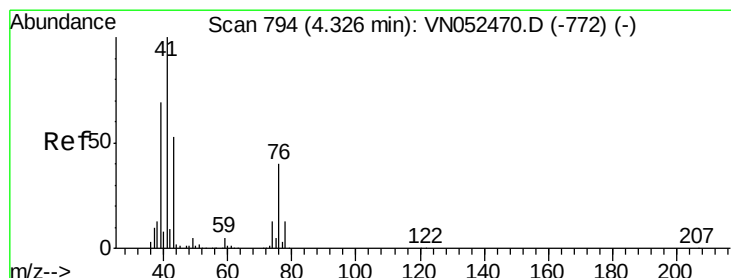
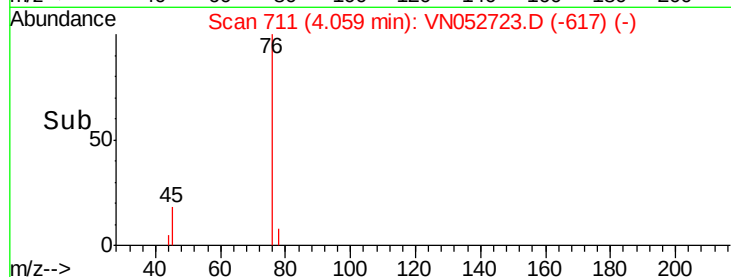
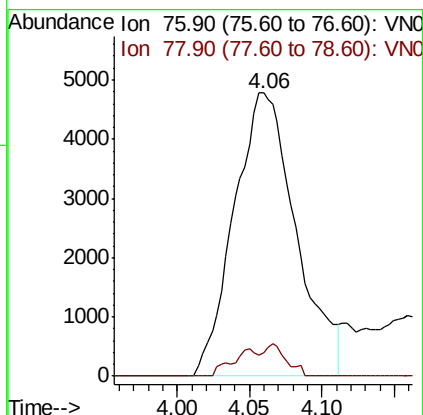
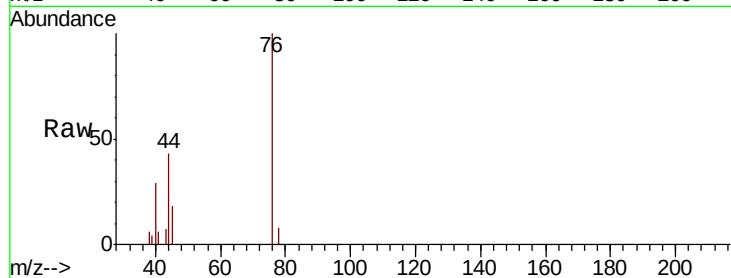
MW-4

Tot Ion: 76 Resp: 14217

Ion Ratio Lower Upper

76 100

78 8.5 7.4 11.0



#18

Methyl Acetate

Concen: 69.954 ug/l

RT: 4.54 min Scan# 860

Delta R.T. 0.21 min

Lab File: VN052723.D

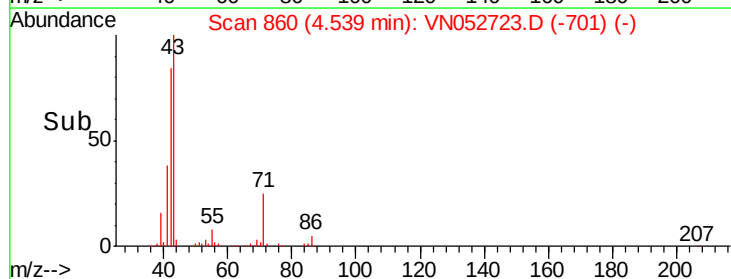
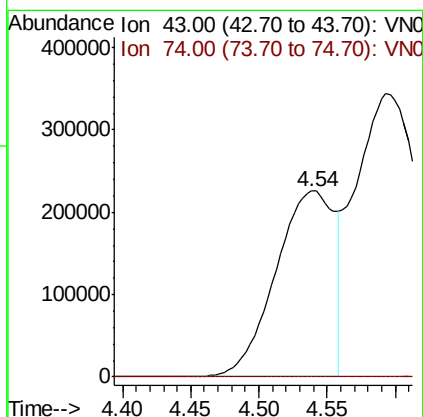
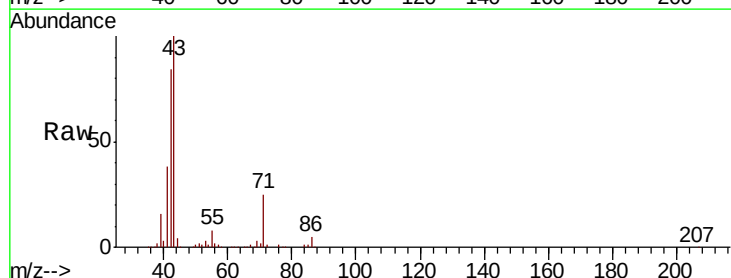
Acq: 7 Dec 2018 13:39

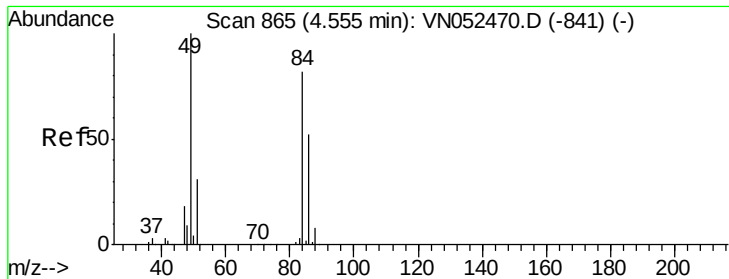
Tgt Ion: 43 Resp: 675626

Ion Ratio Lower Upper

43 100

74 0.0 18.6 27.8#





#20

Methvlene Chloride

Concen: 0.373 ug/l

RT: 4.54 min Scan# 861

Delta R.T. -0.01 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

Instrument :

MSVOA_N

ClientSampleId :

MW-4

Tot Ion: 84 Resp: 4921

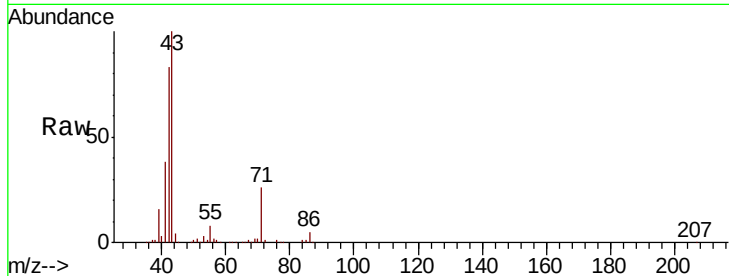
Ion Ratio Lower Upper

84 100

49 57.0 98.0 147.0#

51 181.2 30.1 45.1#

86 515.6 50.7 76.1#

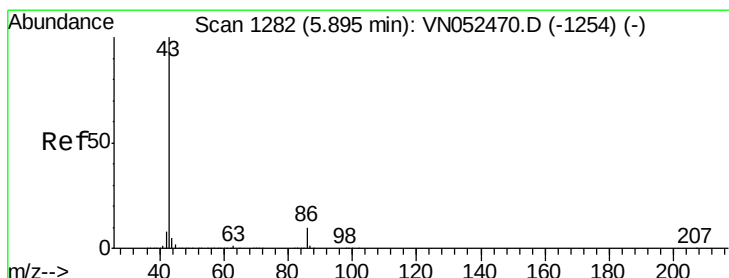
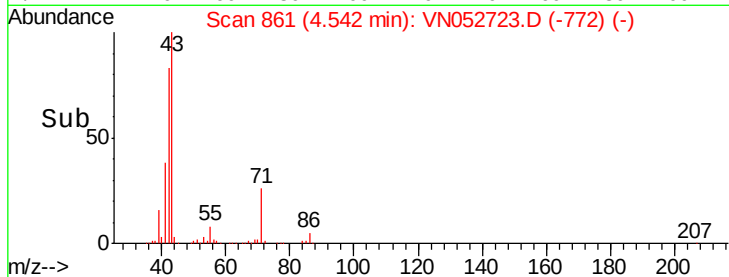
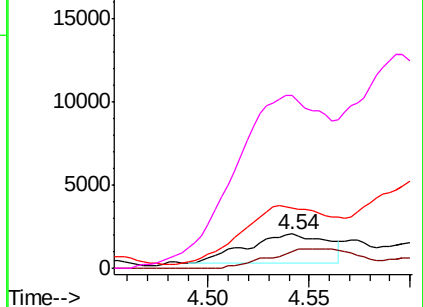


Abundance Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO



#23

Vinyl Acetate

Concen: 1.808 ug/l

RT: 5.92 min Scan# 1291

Delta R.T. 0.03 min

Lab File: VN052723.D

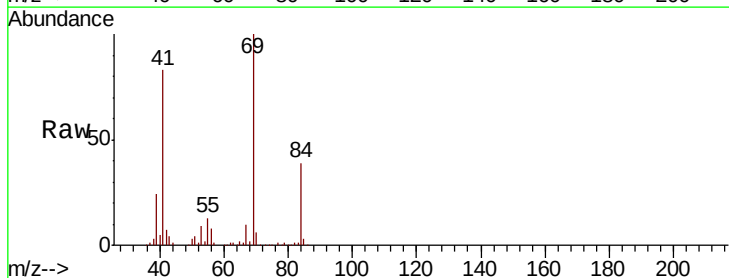
Acq: 7 Dec 2018 13:39

Tgt Ion: 43 Resp: 44775

Ion Ratio Lower Upper

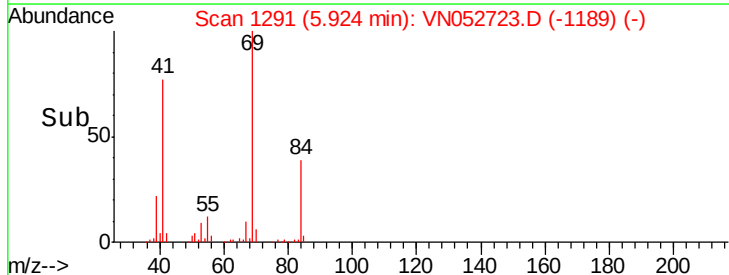
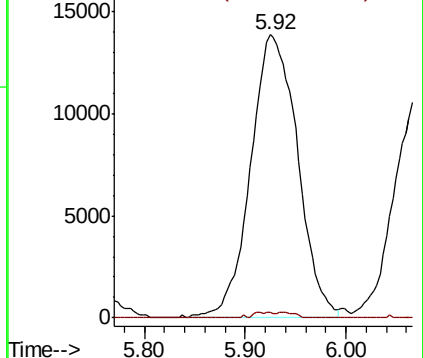
43 100

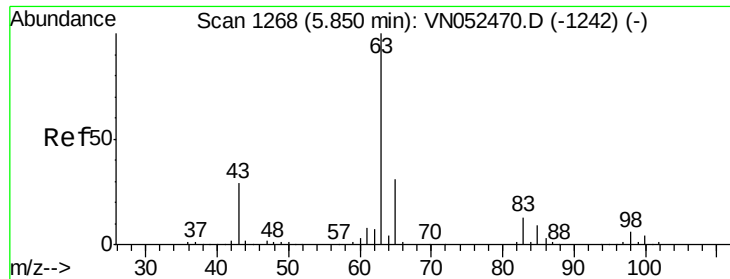
86 1.8 7.8 11.8#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 86.00 (85.70 to 86.70): VNO

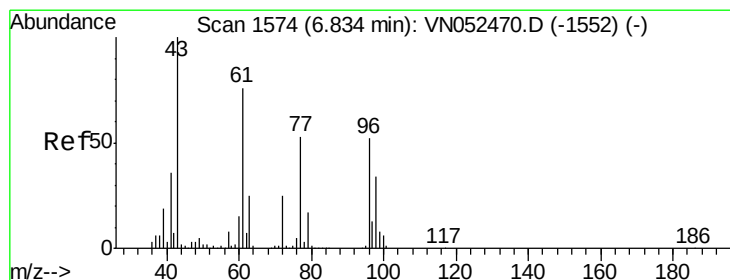
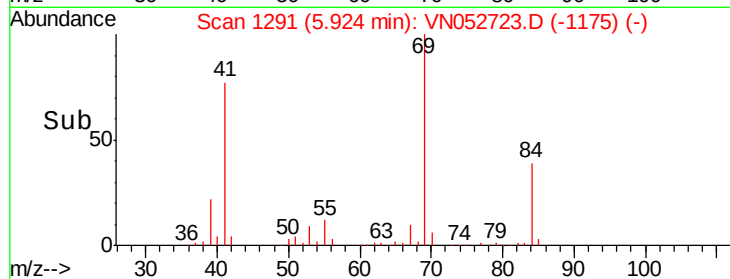
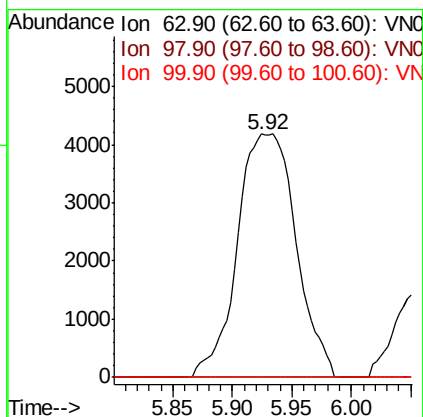
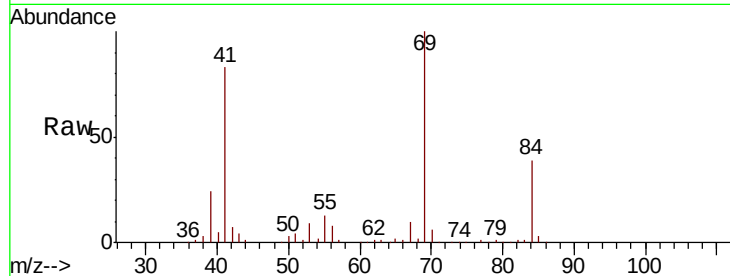




#24
 1,1-Dichloroethane
 Concen: 0.628 ug/l
 RT: 5.92 min Scan# 1291
 Delta R.T. 0.07 min
 Lab File: VN052723.D
 Acq: 7 Dec 2018 13:39

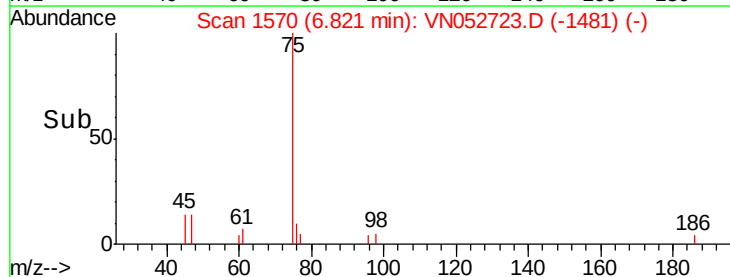
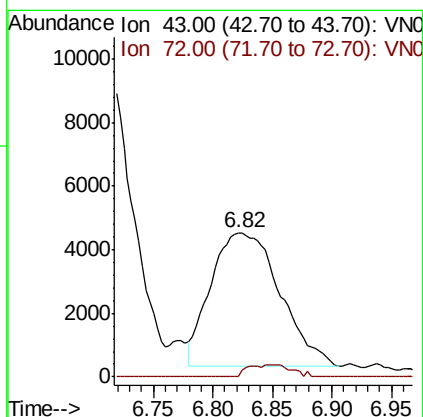
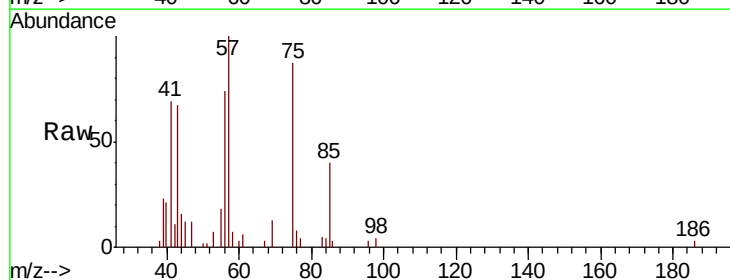
Instrument :
 MSVOA_N
 ClientSampled :
 MW-4

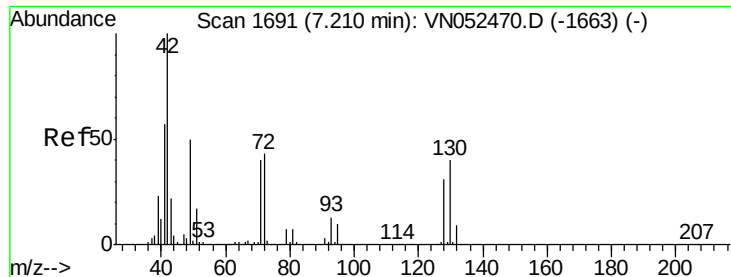
Tot Ion: 63 Resp: 14246
 Ion Ratio Lower Upper
 63 100
 98 0.0 3.0 9.2#
 100 0.0 2.0 5.8#



#25
 2-Butanone
 Concen: 3.553 ug/l
 RT: 6.82 min Scan# 1570
 Delta R.T. -0.01 min
 Lab File: VN052723.D
 Acq: 7 Dec 2018 13:39

Tgt Ion: 43 Resp: 16954
 Ion Ratio Lower Upper
 43 100
 72 0.0 20.1 30.1#





#29

Tetrahydrofuran

Concen: 0.802 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.01 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

Instrument :

MSVOA_N

ClientSampled :

MW-4

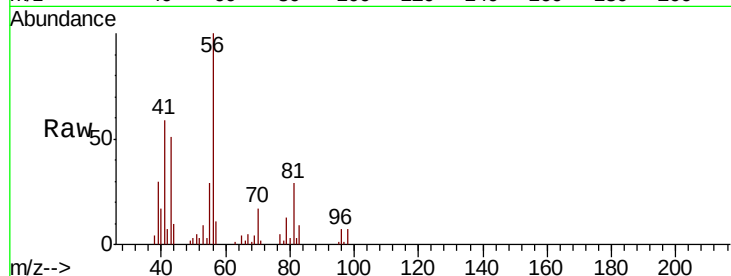
Tot Ion: 42 Resp: 2468

Ion Ratio Lower Upper

42 100

72 0.0 33.3 49.9#

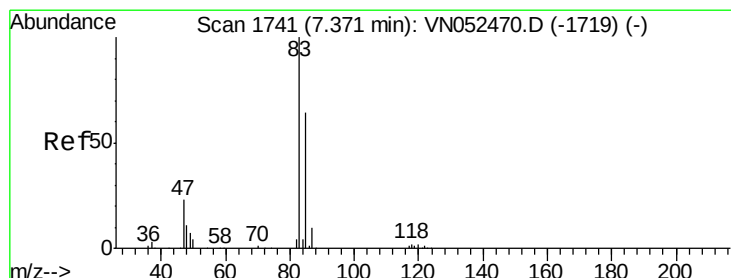
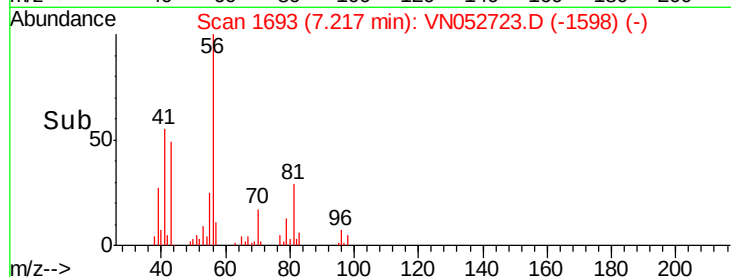
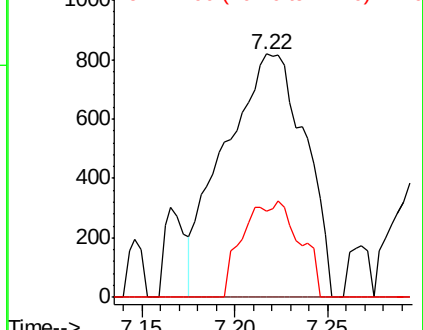
71 0.0 32.0 48.0#



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



#30

Chloroform

Concen: 1.754 ug/l

RT: 7.39 min Scan# 1746

Delta R.T. 0.02 min

Lab File: VN052723.D

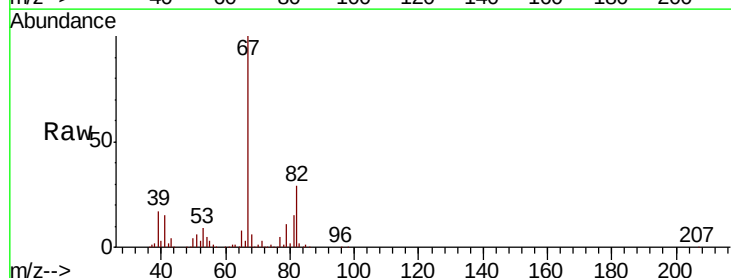
Acq: 7 Dec 2018 13:39

Tgt Ion: 83 Resp: 39733

Ion Ratio Lower Upper

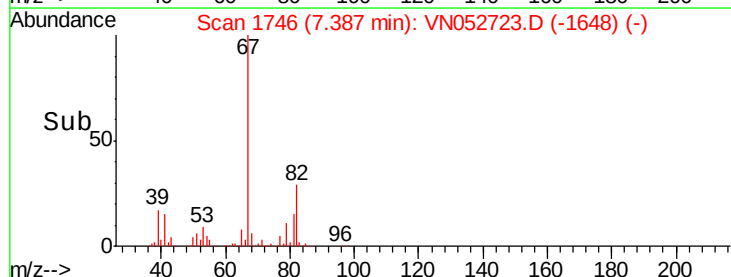
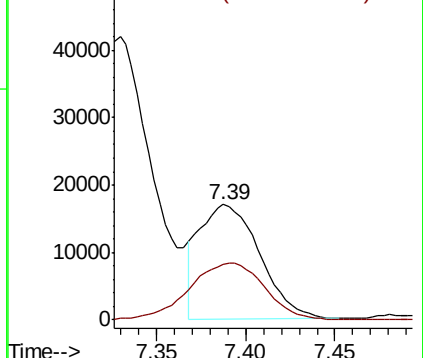
83 100

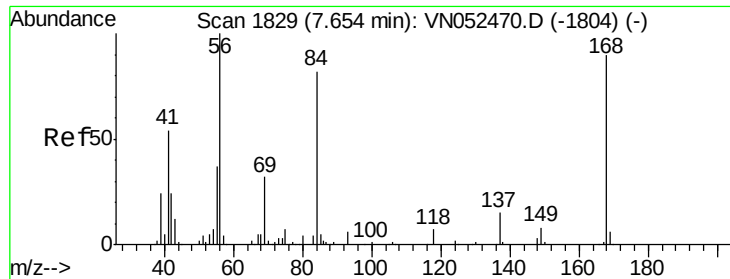
85 49.0 51.0 76.4#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

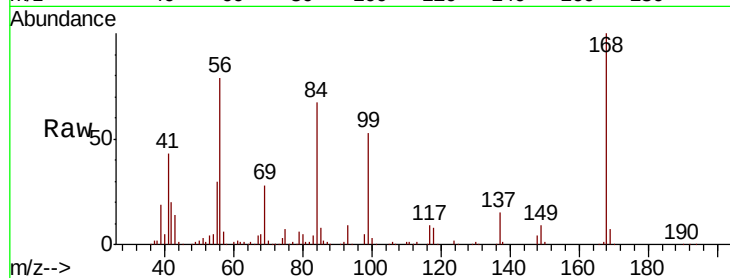




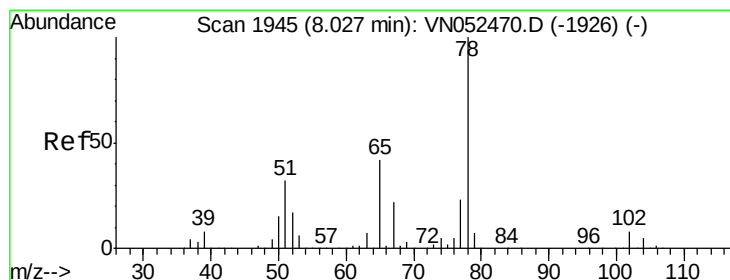
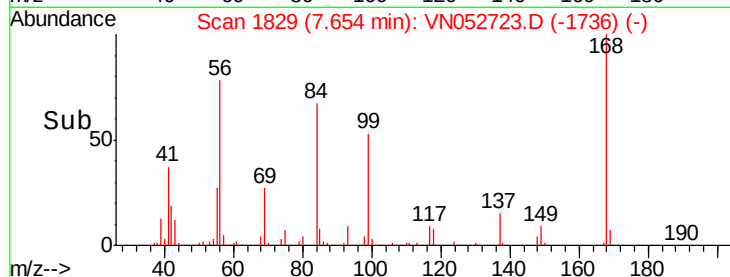
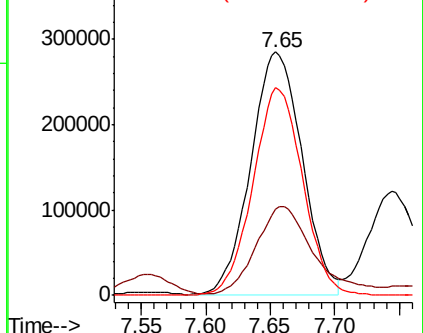
#31
Cyclohexane
Concen: 35.583 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.00 min
Lab File: VN052723.D
Acq: 7 Dec 2018 13:39

Instrument :
MSVOA_N
ClientSampled :
MW-4

Tot Ion: 56 Resp: 784158
Ion Ratio Lower Upper
56 100
69 33.6 25.8 38.6
84 85.4 65.3 97.9

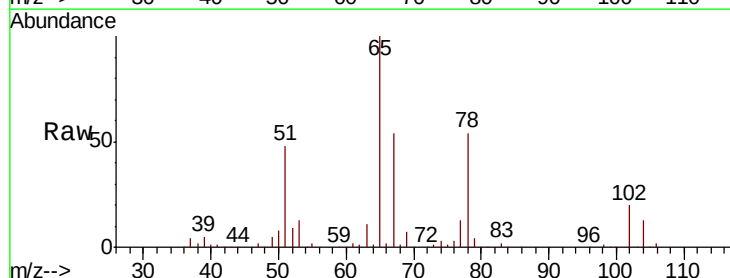


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

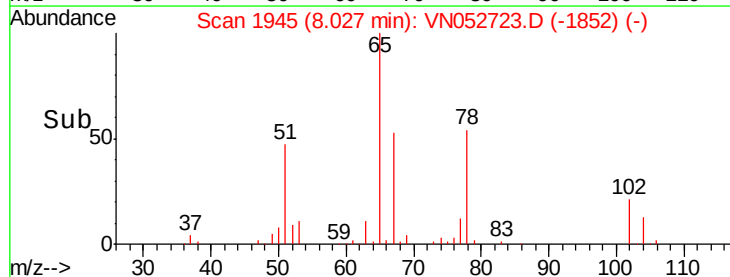
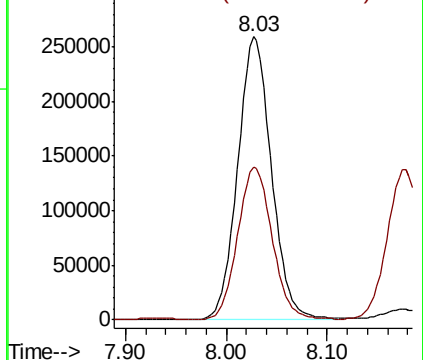


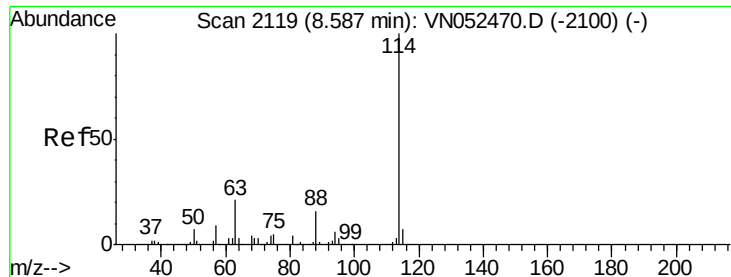
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN052723.D
Acq: 7 Dec 2018 13:39

Tgt Ion: 65 Resp: 599370
Ion Ratio Lower Upper
65 100
67 55.2 0.0 109.8



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

Instrument :

MSVOA_N

ClientSampleId :

MW-4

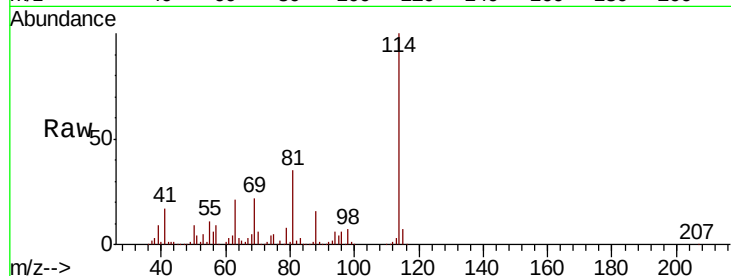
Tot Ion:114 Resp: 1787751

Ion Ratio Lower Upper

114 100

63 20.9 0.0 41.8

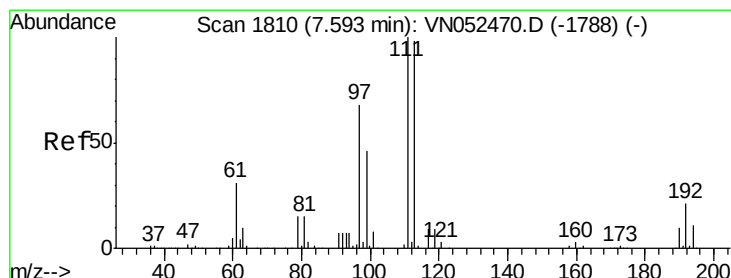
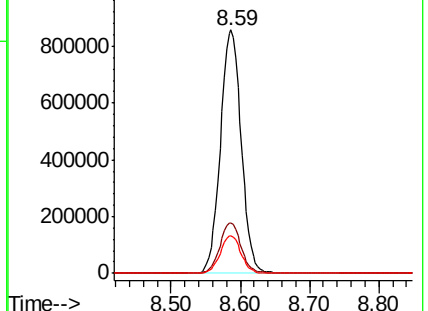
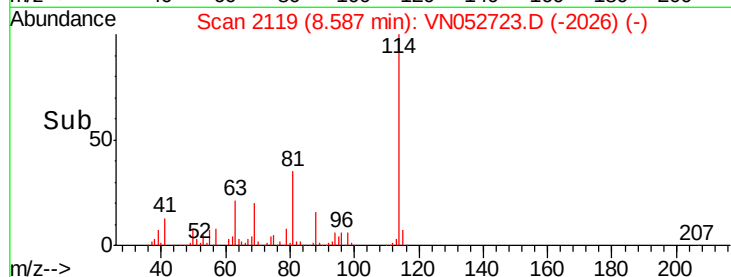
88 15.5 0.0 31.6



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



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

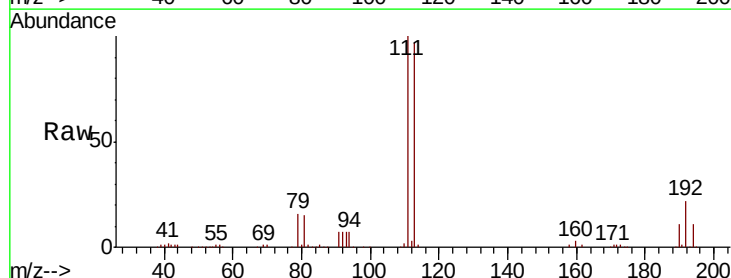
Tgt Ion:113 Resp: 545956

Ion Ratio Lower Upper

113 100

111 102.7 82.0 123.0

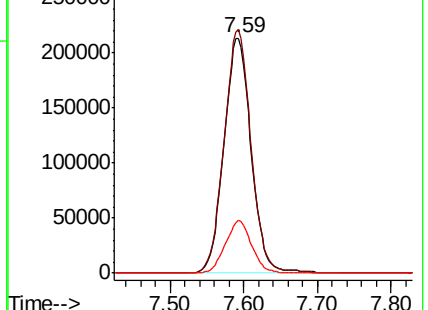
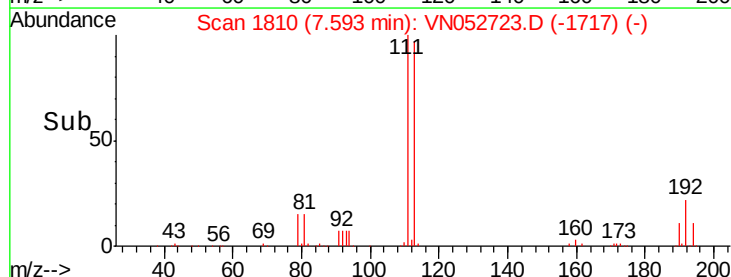
192 21.7 17.0 25.6

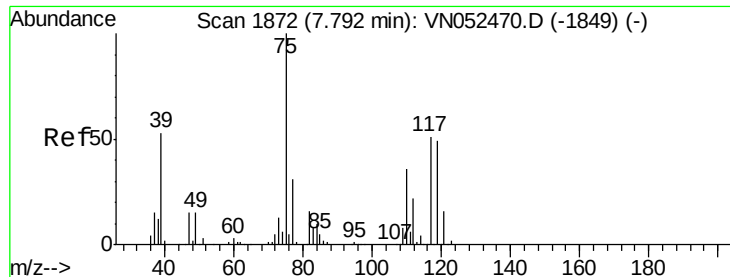


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.786 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

Instrument :

MSVOA_N

ClientSampleId :

MW-4

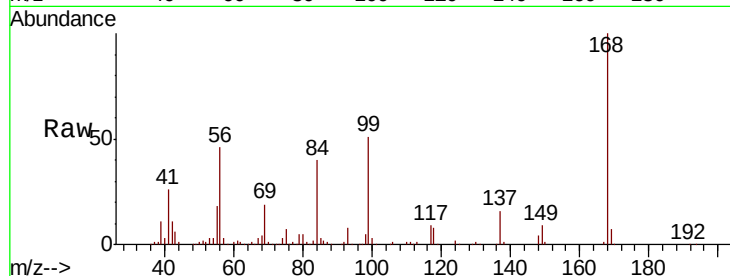
Tot Ion: 75 Resp: 80802

Ion Ratio Lower Upper

75 100

110 8.6 17.5 52.6#

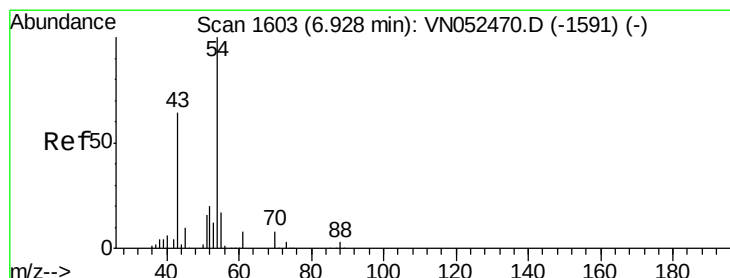
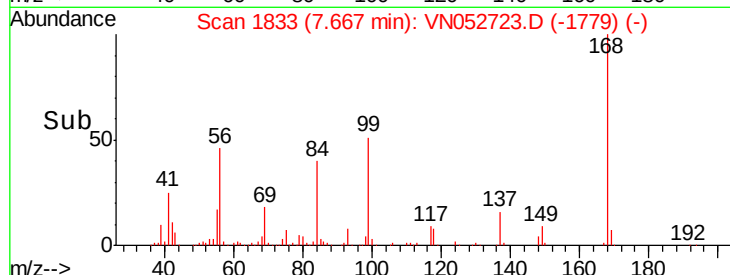
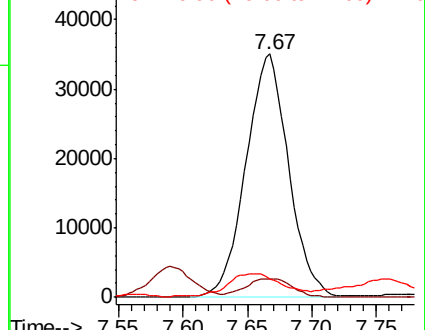
77 12.9 24.5 36.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#37

Ethyl Acetate

Concen: 1.646 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. -0.11 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

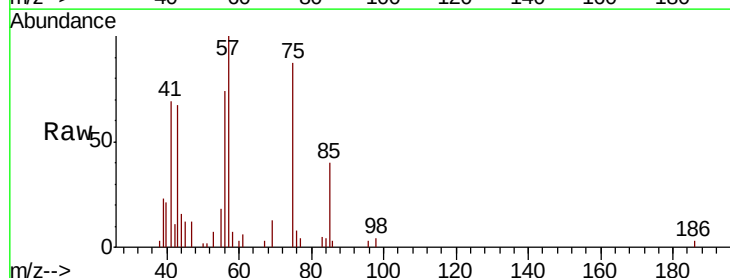
Tgt Ion: 43 Resp: 16954

Ion Ratio Lower Upper

43 100

61 7.3 11.8 17.8#

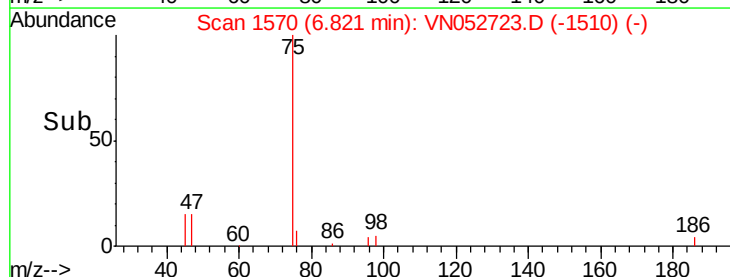
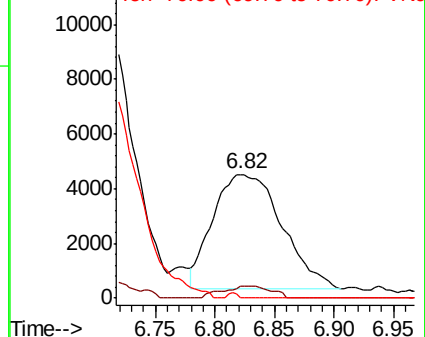
70 0.0 7.8 11.8#

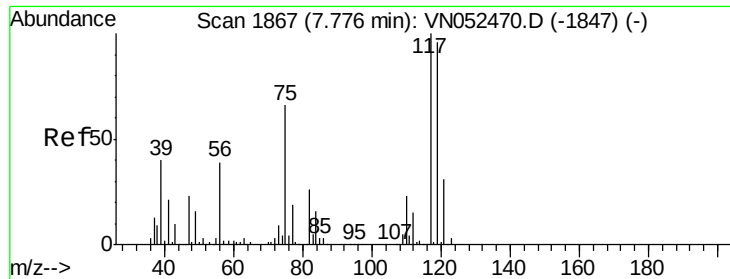


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 70.00 (69.70 to 70.70): VN0

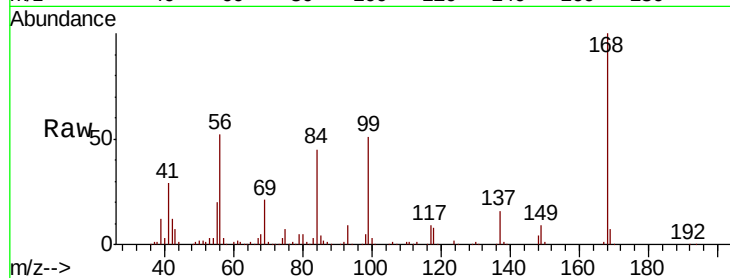




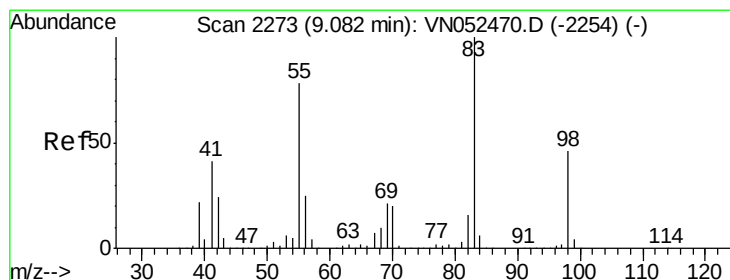
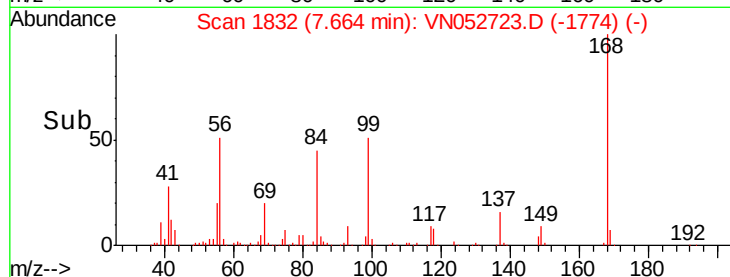
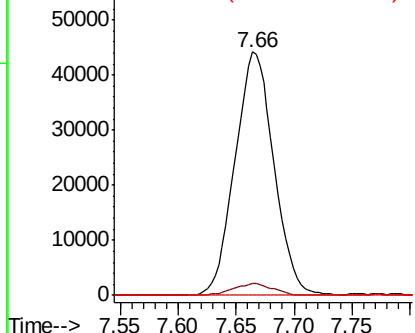
#38
Carbon Tetrachloride
Concen: 6.726 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN052723.D
Acq: 7 Dec 2018 13:39

Instrument :
MSVOA_N
ClientSampleId :
MW-4

Tot Ion:117 Resp: 102797
Ion Ratio Lower Upper
117 100
119 4.9 76.8 115.2#
121 0.0 24.9 37.3#

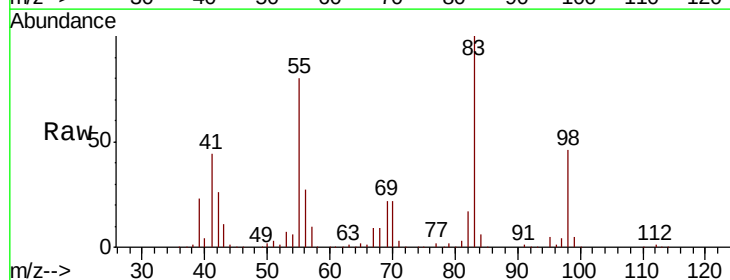


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

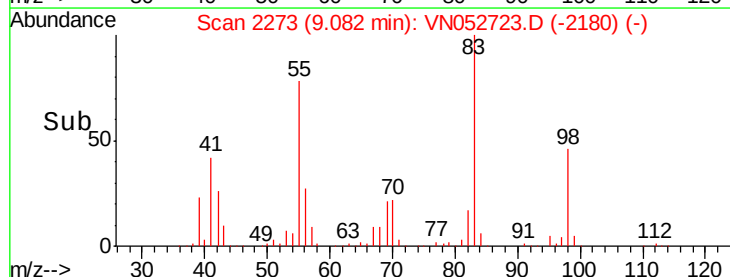
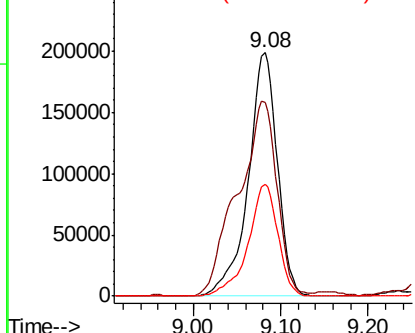


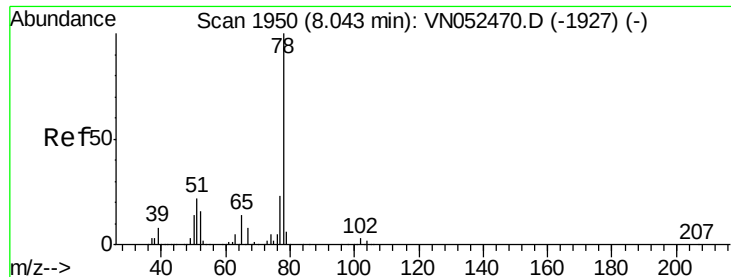
#39
Methylcyclohexane
Concen: 22.396 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN052723.D
Acq: 7 Dec 2018 13:39

Tgt Ion: 83 Resp: 459556
Ion Ratio Lower Upper
83 100
55 79.4 62.2 93.2
98 46.1 36.4 54.6



Abundance Ion 83.00 (82.70 to 83.70): V
Ion 55.00 (54.70 to 55.70): V
Ion 98.00 (97.70 to 98.70): V





#40

Benzene

Concen: 11.114 ug/l

RT: 8.04 min Scan# 1950

Delta R.T. 0.00 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

Instrument :

MSVOA_N

ClientSampled :

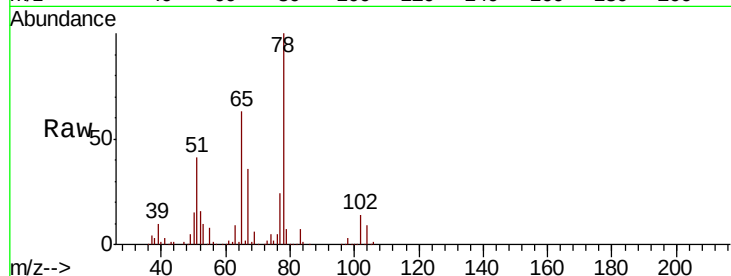
MW-4

Tot Ion: 78 Resp: 559162

Ion Ratio Lower Upper

78 100

77 24.0 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): VN052723.D (-1857) (-)

Ion 77.00 (76.70 to 77.70): VN052723.D (-1857) (-)

8.04

250000

200000

150000

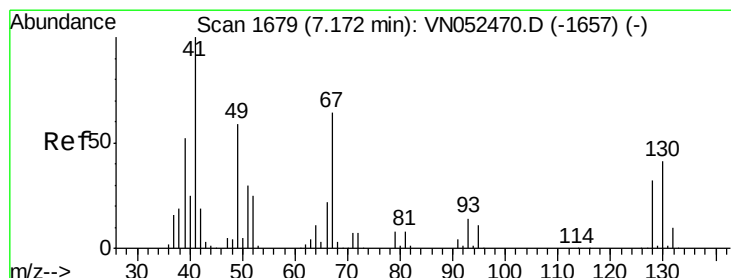
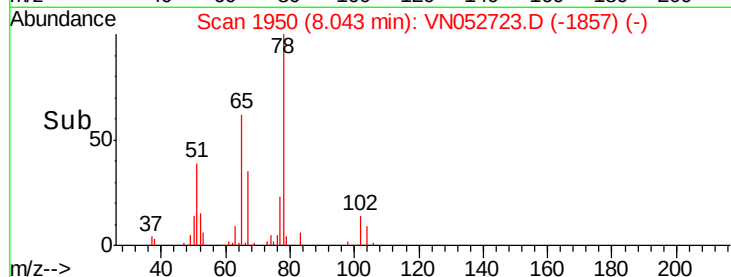
100000

50000

0

8.00 8.10

Time-->



#41

Methacrylonitrile

Concen: 3.920 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. 0.04 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

Tgt Ion: 41 Resp: 22083

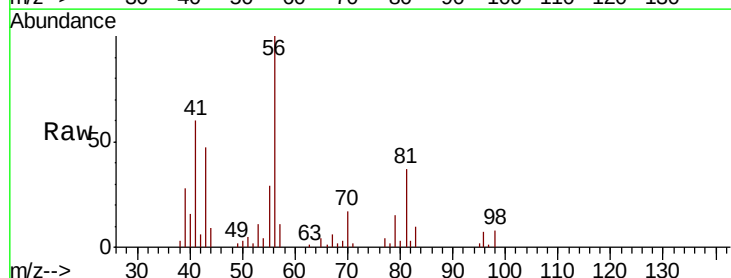
Ion Ratio Lower Upper

41 100

39 72.0 50.9 76.3

67 0.0 63.6 95.4#

52 0.0 24.4 36.6#



Abundance Ion 41.00 (40.70 to 41.70): VN052723.D (-1586) (-)

Ion 39.00 (38.70 to 39.70): VN052723.D (-1586) (-)

Ion 67.00 (66.70 to 67.70): VN052723.D (-1586) (-)

Ion 52.00 (51.70 to 52.70): VN052723.D (-1586) (-)

25000

20000

15000

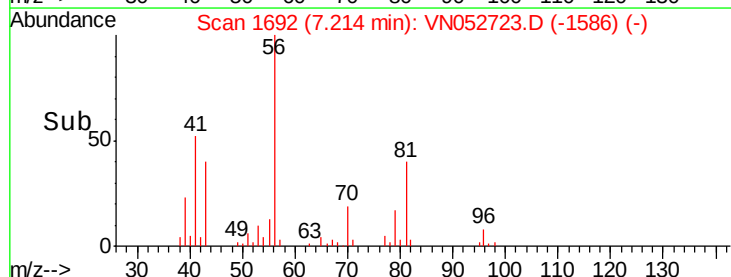
10000

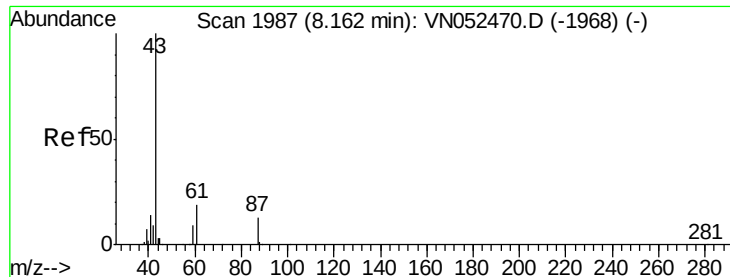
5000

0

7.10 7.15 7.20 7.25 7.30

Time-->





#43

Isopropyl Acetate

Concen: 5.183 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. -0.01 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

Instrument :

MSVOA_N

ClientSampleId :

MW-4

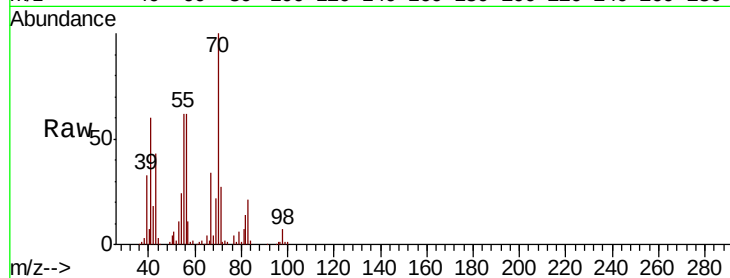
Tot Ion: 43 Resp: 90376

Ion Ratio Lower Upper

43 100

61 0.0 24.1 36.1#

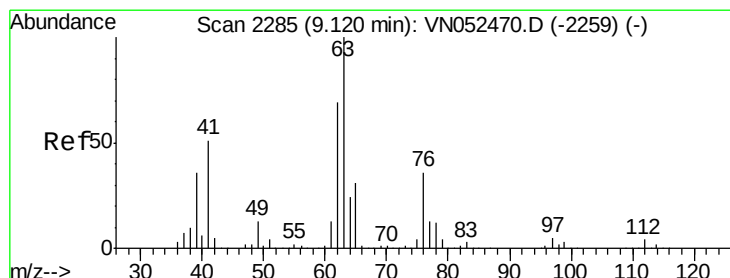
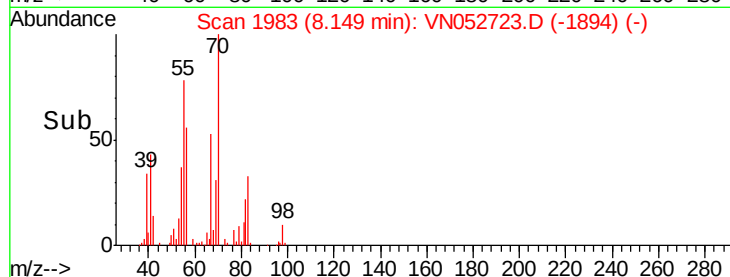
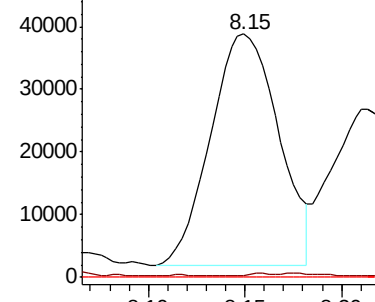
87 0.0 10.6 15.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.230 ug/l

RT: 9.09 min Scan# 2274

Delta R.T. -0.04 min

Lab File: VN052723.D

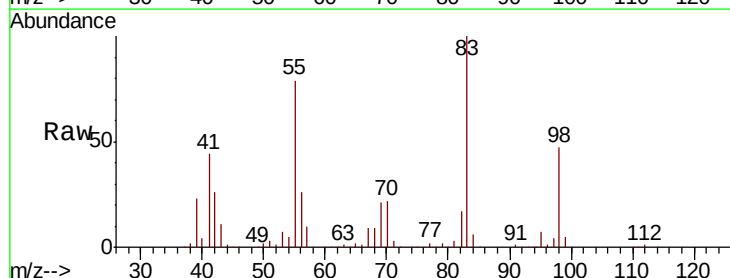
Acq: 7 Dec 2018 13:39

Tgt Ion: 63 Resp: 3076

Ion Ratio Lower Upper

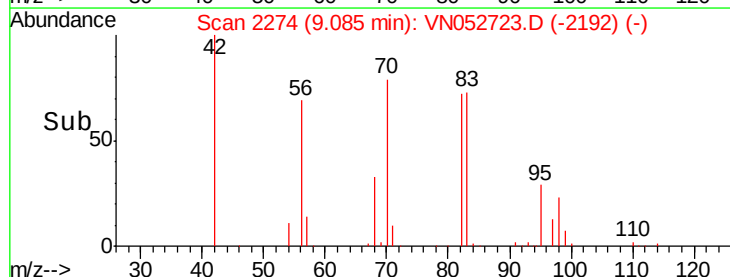
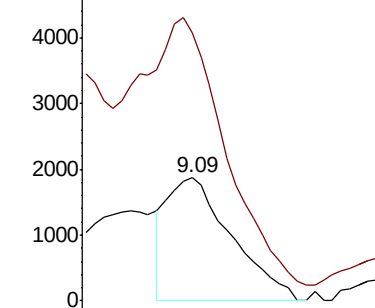
63 100

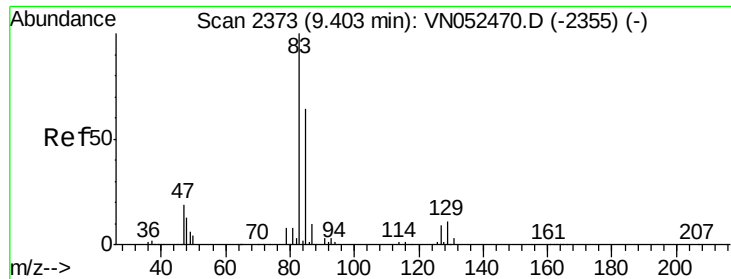
65 204.8 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0





#47

Bromodichloromethane

Concen: 2.462 ug/l

RT: 9.39 min Scan# 2368

Delta R.T. -0.02 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

Instrument :

MSVOA_N

ClientSampled :

MW-4

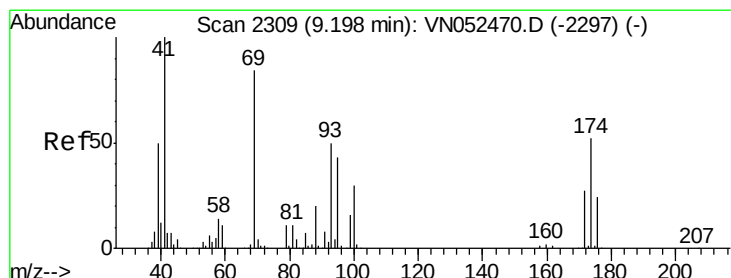
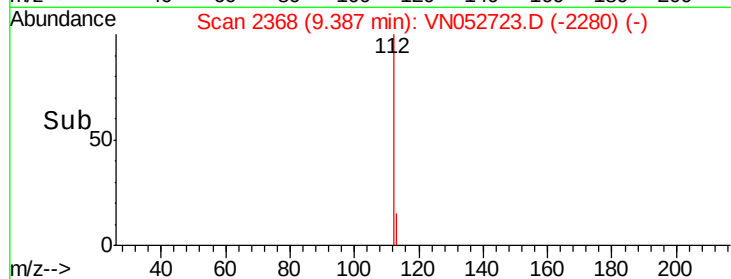
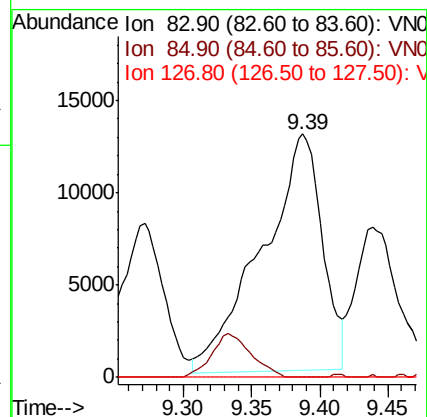
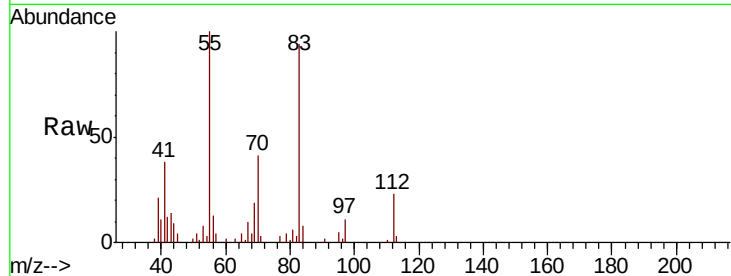
Tot Ion: 83 Resp: 39640

Ion Ratio Lower Upper

83 100

85 0.0 51.3 76.9#

127 0.0 6.9 10.3#



#48

Methyl methacrylate

Concen: 0.645 ug/l

RT: 9.22 min Scan# 2317

Delta R.T. 0.03 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

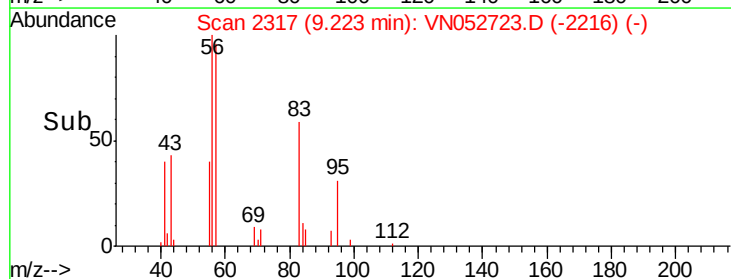
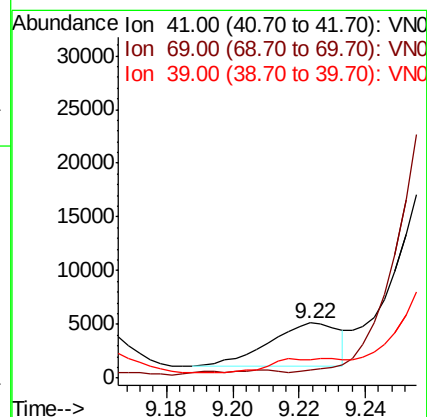
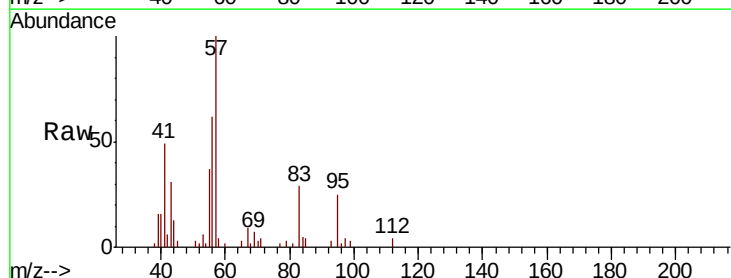
Tgt Ion: 41 Resp: 5864

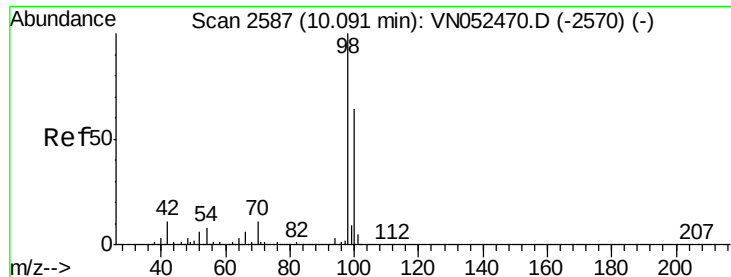
Ion Ratio Lower Upper

41 100

69 0.0 70.0 105.0#

39 0.0 42.6 64.0#

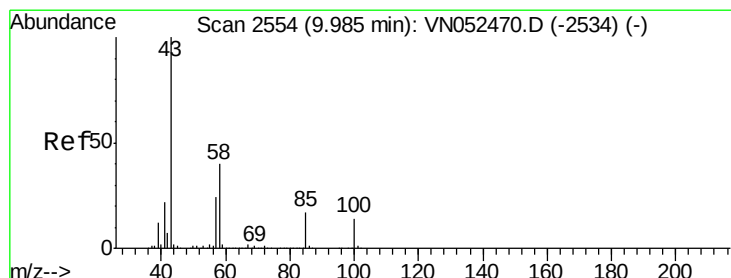
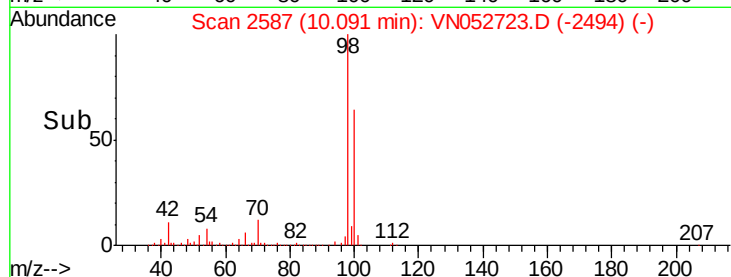
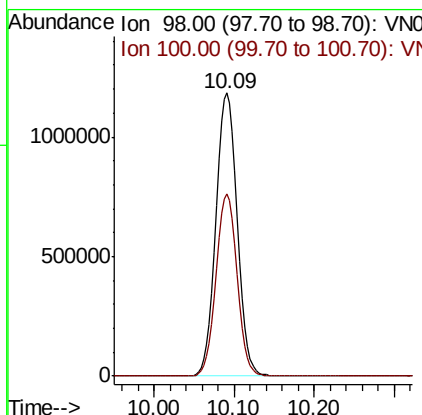
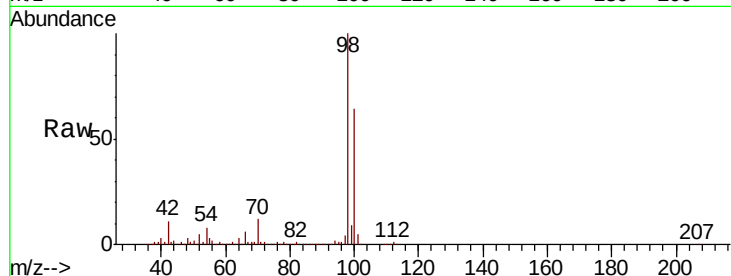




#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052723.D
Acq: 7 Dec 2018 13:39

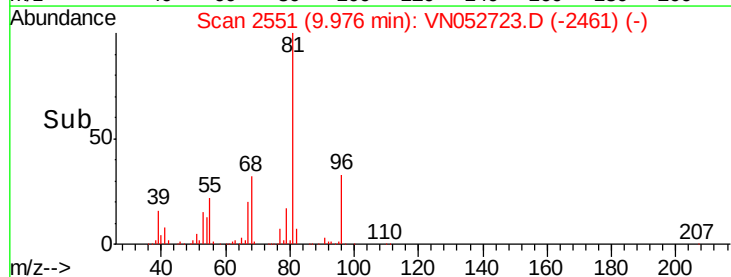
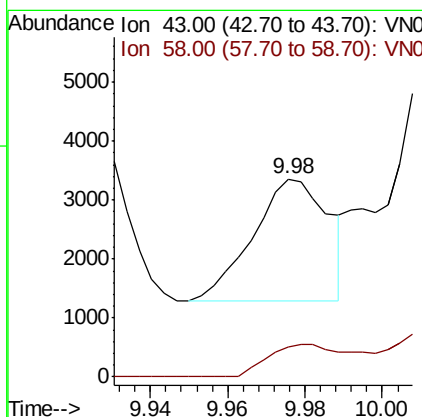
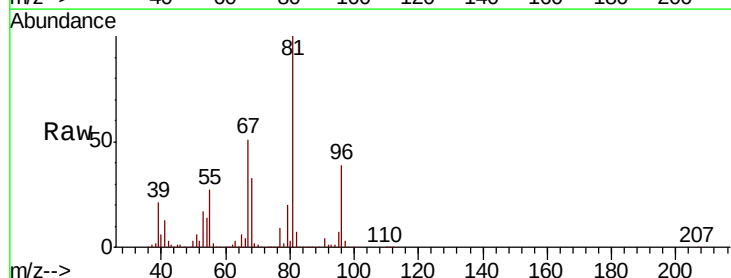
Instrument :
MSVOA_N
ClientSampled :
MW-4

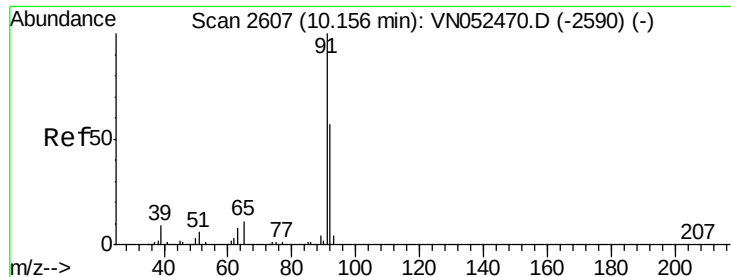
Tot Ion: 98 Resp: 2193430
Ion Ratio Lower Upper
98 100
100 63.9 51.3 76.9



#51
4-Methyl-2-Pentanone
Concen: 0.290 ug/l
RT: 9.98 min Scan# 2551
Delta R.T. -0.01 min
Lab File: VN052723.D
Acq: 7 Dec 2018 13:39

Tgt Ion: 43 Resp: 2835
Ion Ratio Lower Upper
43 100
58 31.7 31.5 47.3





#52

Toluene

Concen: 7.272 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

Instrument :

MSVOA_N

ClientSampleId :

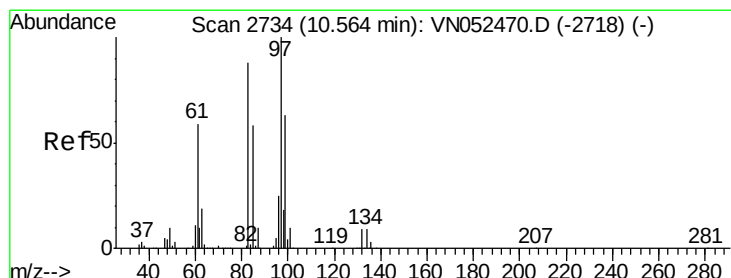
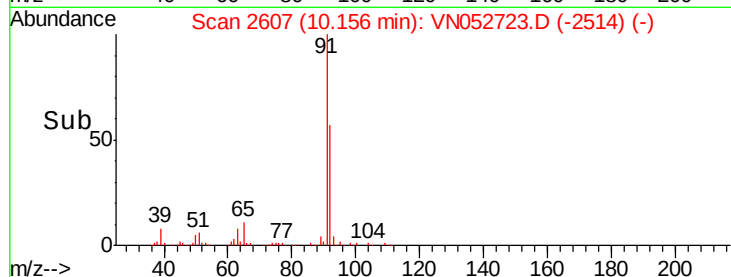
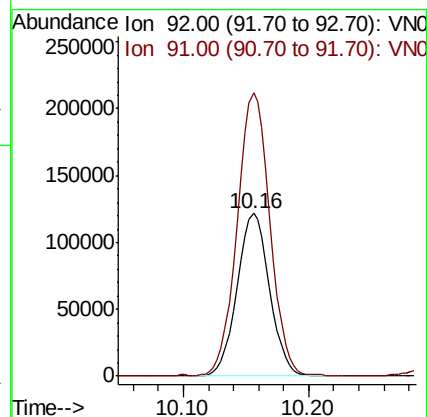
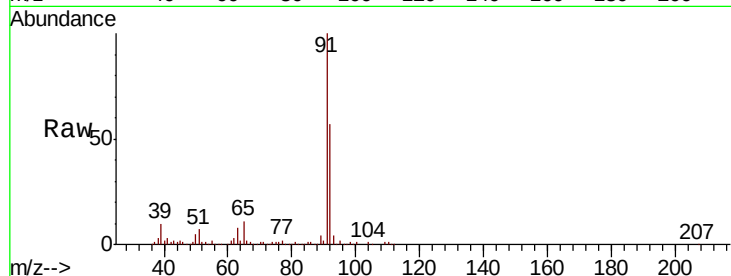
MW-4

Tot Ion: 92 Resp: 217390

Ion Ratio Lower Upper

92 100

91 175.6 141.0 211.4



#55

1,1,2-Trichloroethane

Concen: 7.408 ug/l

RT: 10.53 min Scan# 2724

Delta R.T. -0.03 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

Tgt Ion: 97 Resp: 77893

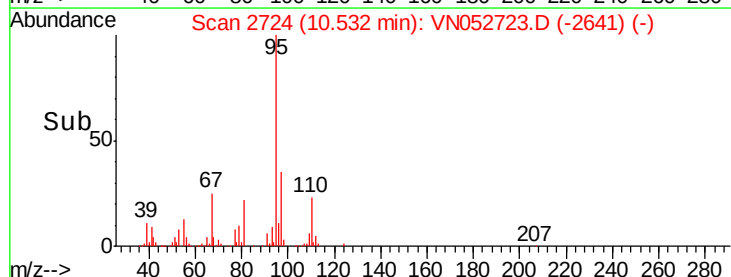
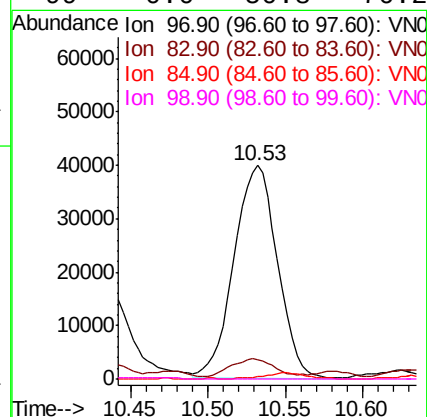
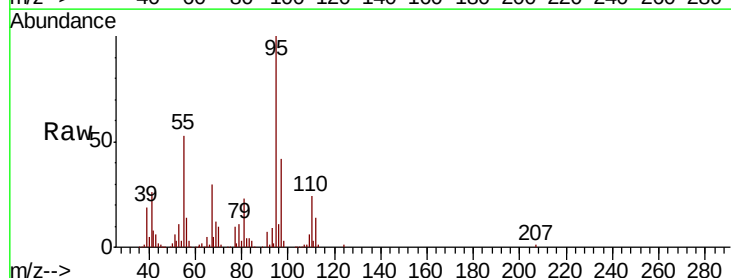
Ion Ratio Lower Upper

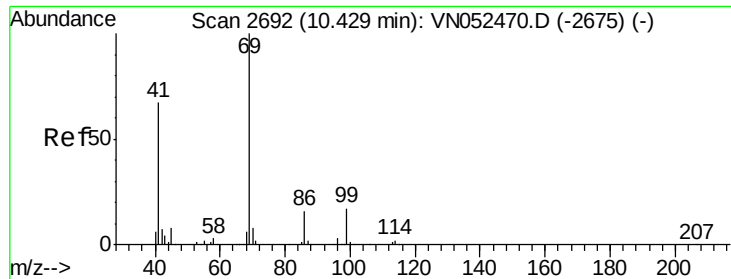
97 100

83 7.4 70.7 106.1#

85 0.9 46.1 69.1#

99 0.0 50.8 76.2#





#56

Ethyl methacrylate

Concen: 3.158 ug/l

RT: 10.43 min Scan# 2693

Delta R.T. 0.00 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

Instrument :

MSVOA_N

ClientSampled :

MW-4

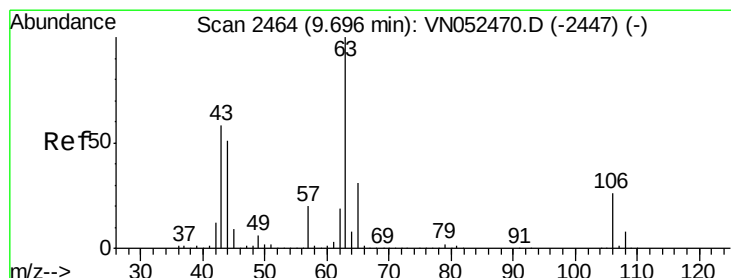
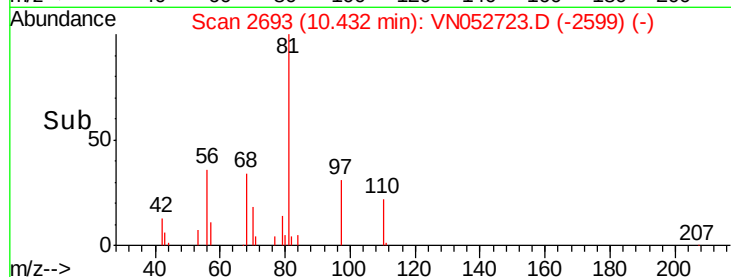
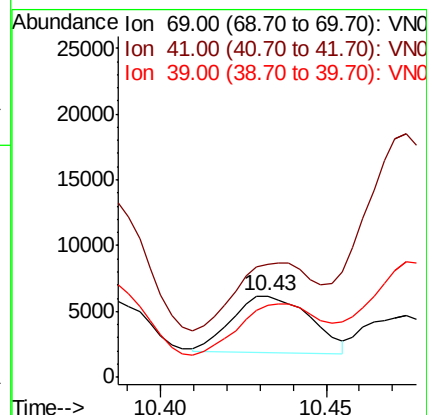
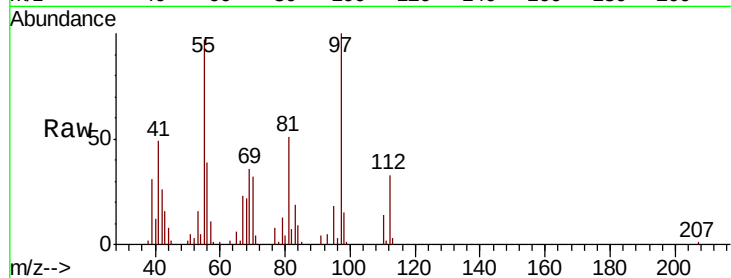
Tot Ion: 69 Resp: 7176

Ion Ratio Lower Upper

69 100

41 123.1 52.6 79.0#

39 90.0 25.9 38.9#



#58

2-Chloroethyl Vinyl ether

Concen: 0.934 ug/l

RT: 9.67 min Scan# 2457

Delta R.T. -0.02 min

Lab File: VN052723.D

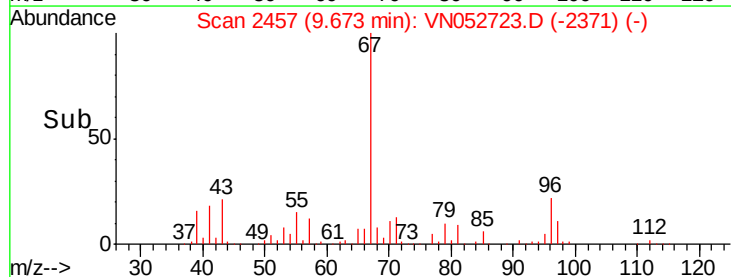
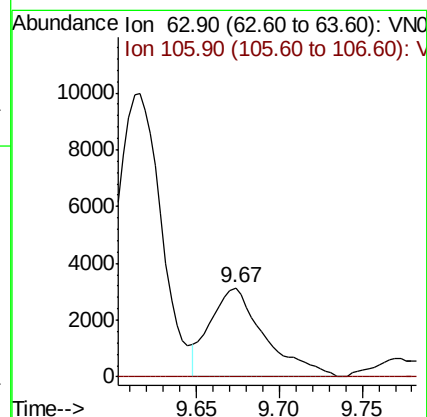
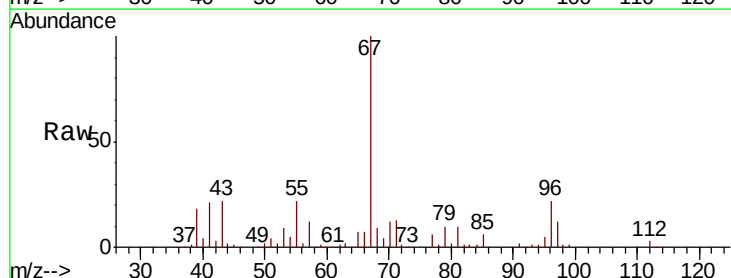
Acq: 7 Dec 2018 13:39

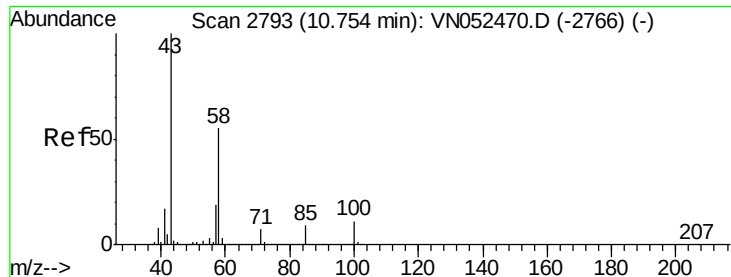
Tgt Ion: 63 Resp: 7129

Ion Ratio Lower Upper

63 100

106 0.0 20.6 30.8#

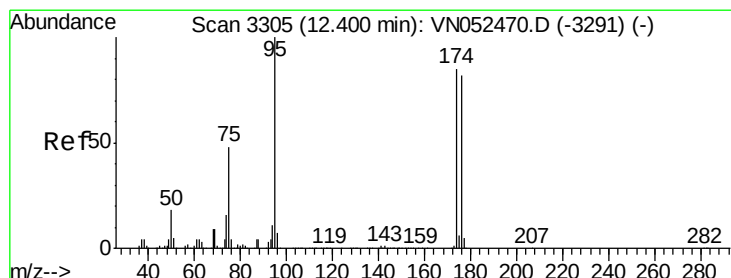
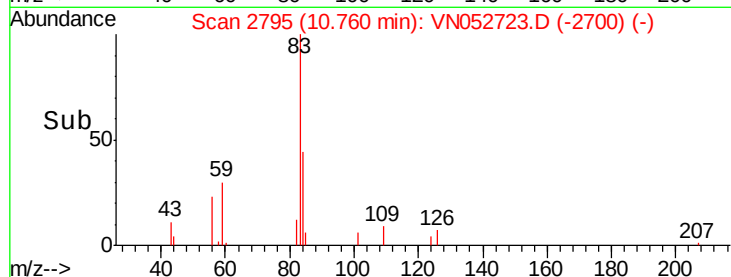
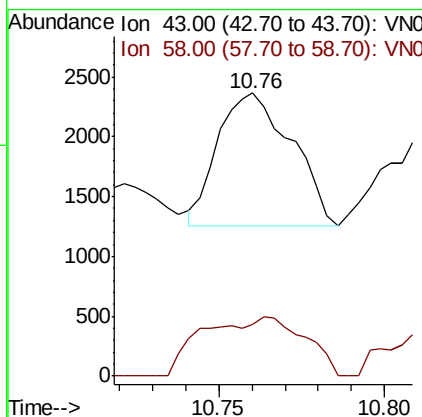
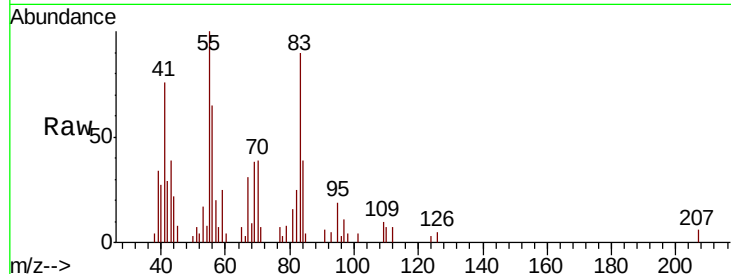




#59
2-Hexanone
Concen: 0.260 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN052723.D
Acq: 7 Dec 2018 13:39

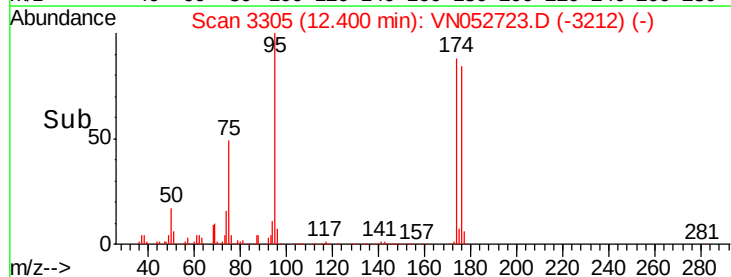
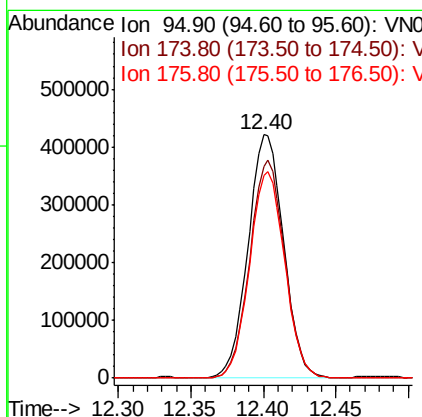
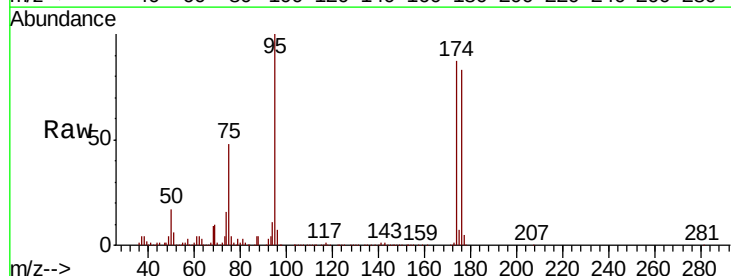
Instrument :
MSVOA_N
ClientSampled :
MW-4

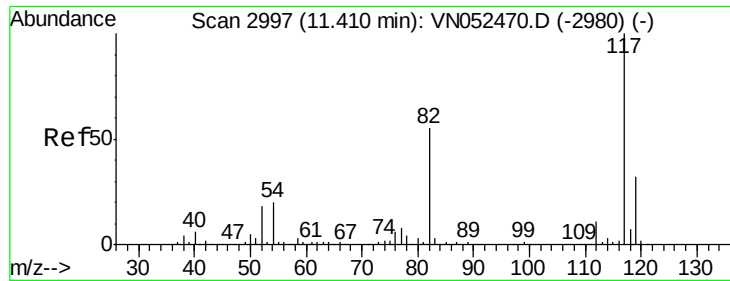
Tot Ion: 43 Resp: 1706
Ion Ratio Lower Upper
43 100
58 62.3 27.4 82.0



#62
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN052723.D
Acq: 7 Dec 2018 13:39

Tgt Ion: 95 Resp: 714718
Ion Ratio Lower Upper
95 100
174 88.6 0.0 173.0
176 84.6 0.0 166.2

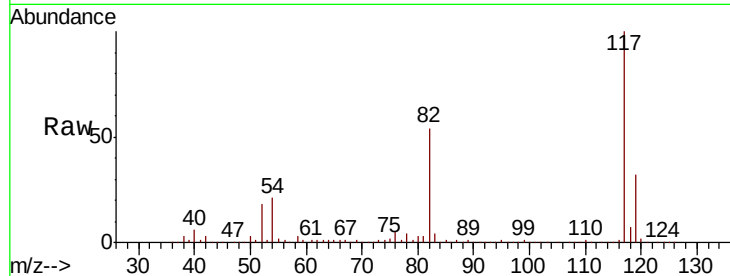




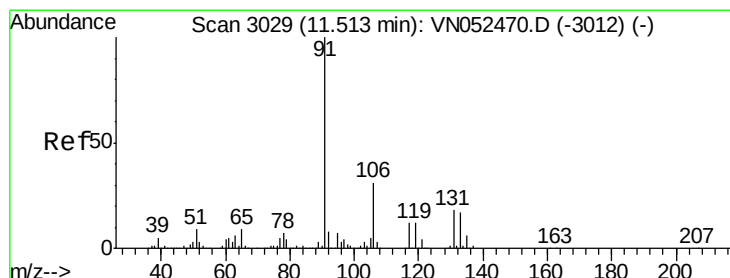
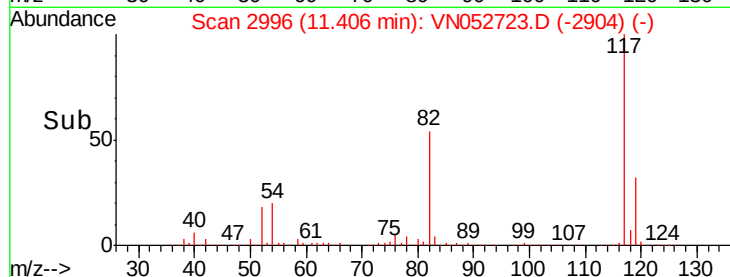
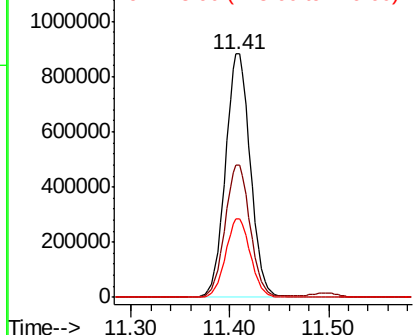
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052723.D
Acq: 7 Dec 2018 13:39

Instrument :
MSVOA_N
ClientSampleId :
MW-4

Tot Ion:117 Resp: 1556700
Ion Ratio Lower Upper
117 100
82 54.4 43.6 65.4
119 32.2 25.4 38.2

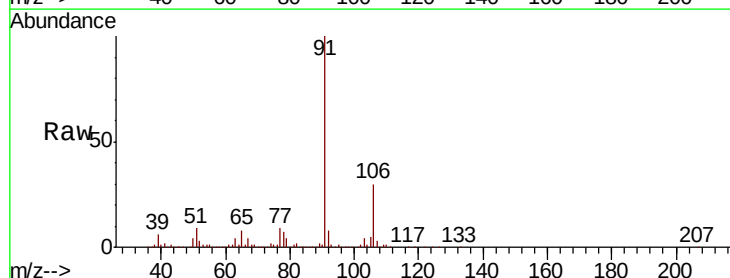


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

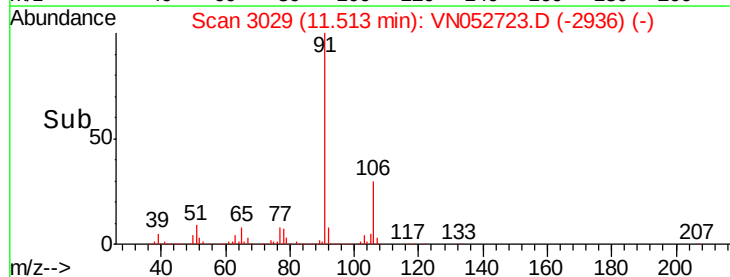
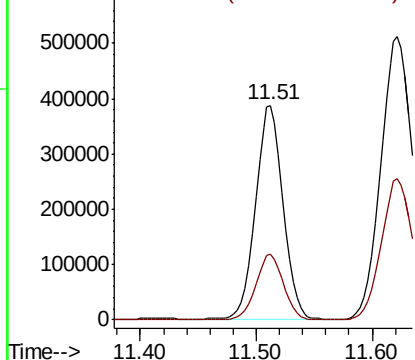


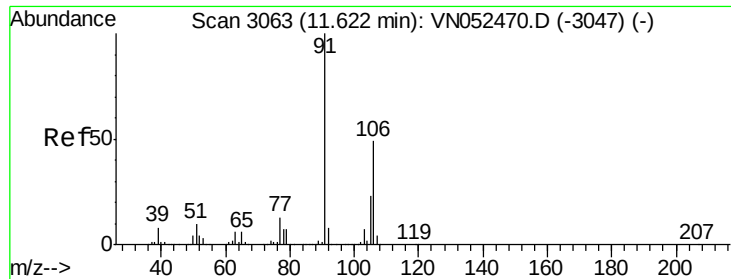
#67
Ethyl Benzene
Concen: 11.406 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN052723.D
Acq: 7 Dec 2018 13:39

Tgt Ion: 91 Resp: 641170
Ion Ratio Lower Upper
91 100
106 30.5 24.9 37.3



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

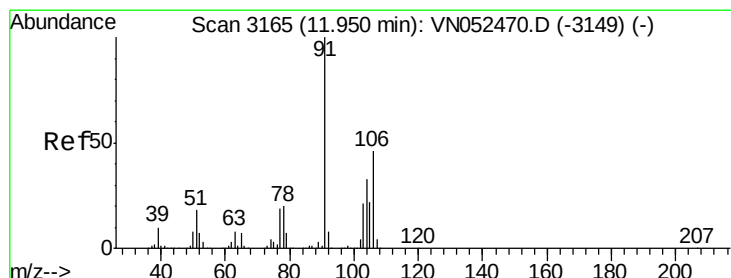
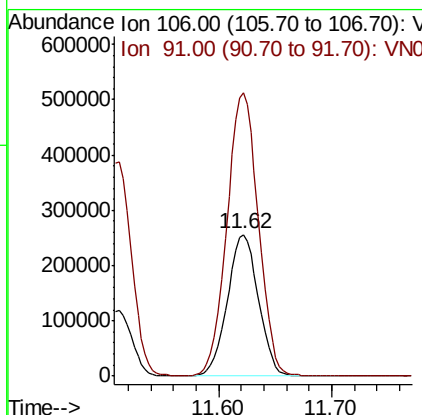
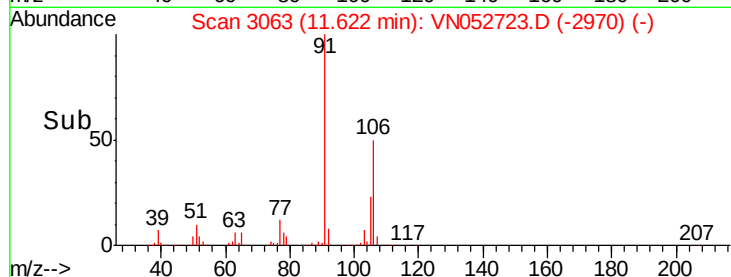
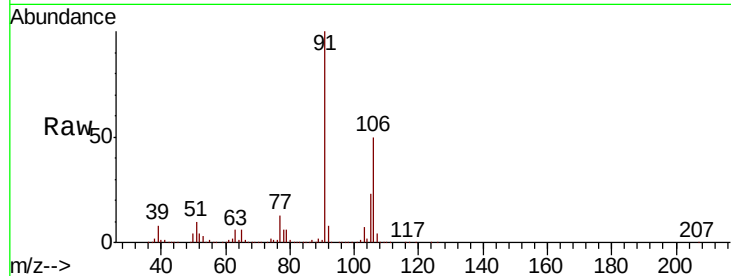




#68
m/p-Xylenes
Concen: 23.283 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN052723.D
Acq: 7 Dec 2018 13:39

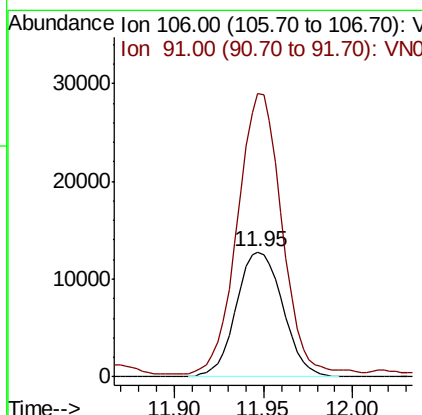
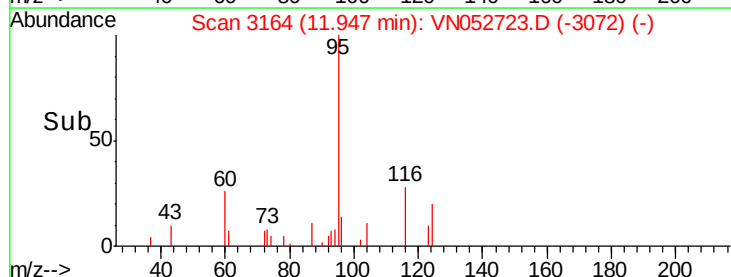
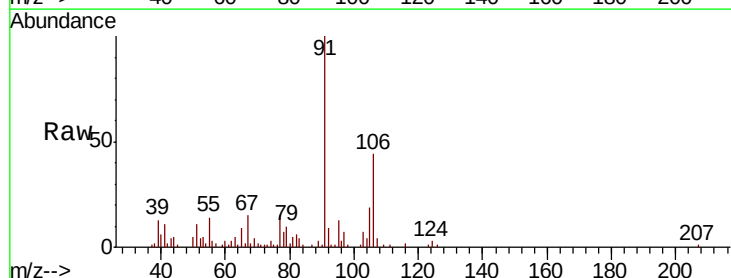
Instrument :
MSVOA_N
ClientSampled :
MW-4

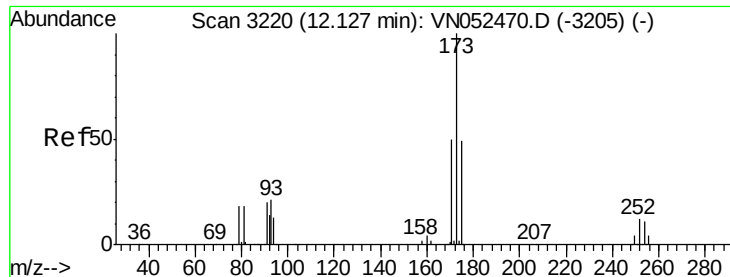
Tot Ion:106 Resp: 487225
Ion Ratio Lower Upper
106 100
91 201.9 163.2 244.8



#69
o-Xylene
Concen: 1.141 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN052723.D
Acq: 7 Dec 2018 13:39

Tgt Ion:106 Resp: 23190
Ion Ratio Lower Upper
106 100
91 212.6 107.7 323.1

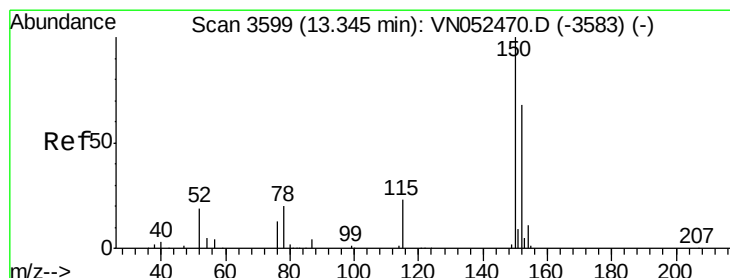
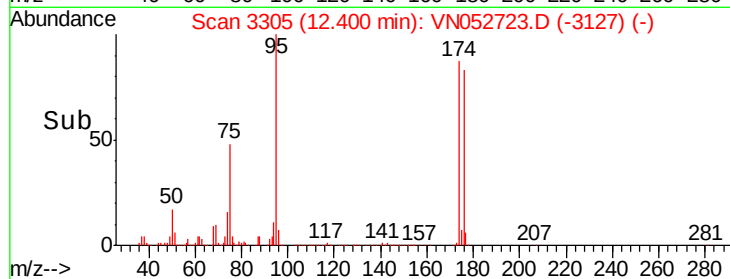
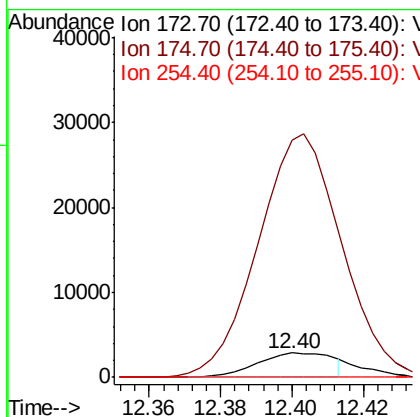
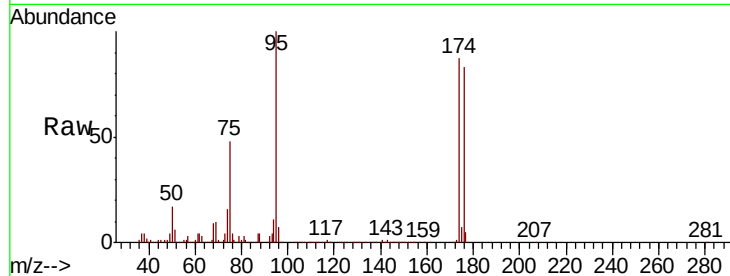




#71
Bromoform
Concen: 0.575 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN052723.D
Acq: 7 Dec 2018 13:39

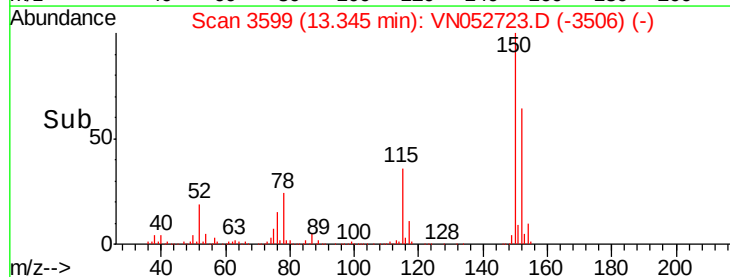
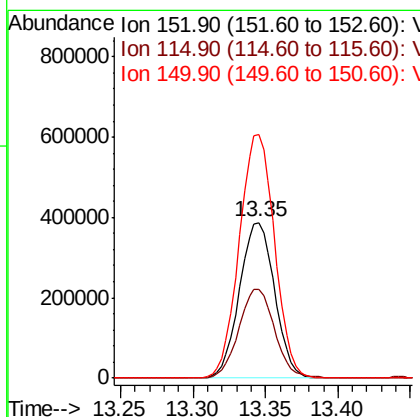
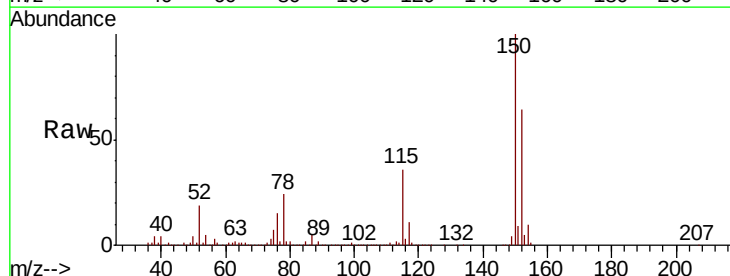
Instrument :
MSVOA_N
ClientSampled :
MW-4

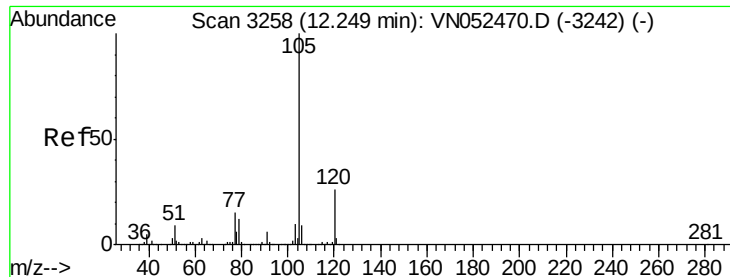
Tot Ion:173 Resp: 4247
Ion Ratio Lower Upper
173 100
175 949.6 24.4 73.2#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN052723.D
Acq: 7 Dec 2018 13:39

Tgt Ion:152 Resp: 653139
Ion Ratio Lower Upper
152 100
115 57.6 28.4 85.2
150 157.0 0.0 346.0





#73

Isopropylbenzene

Concen: 83.187 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

Instrument :

MSVOA_N

ClientSampled :

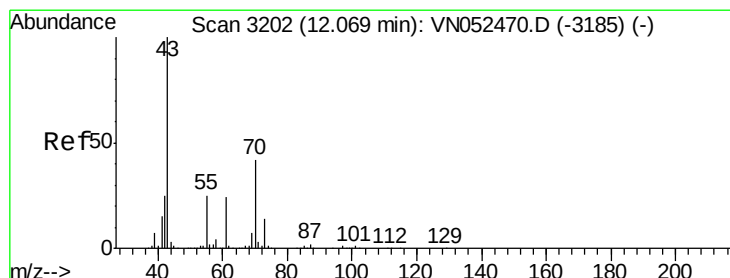
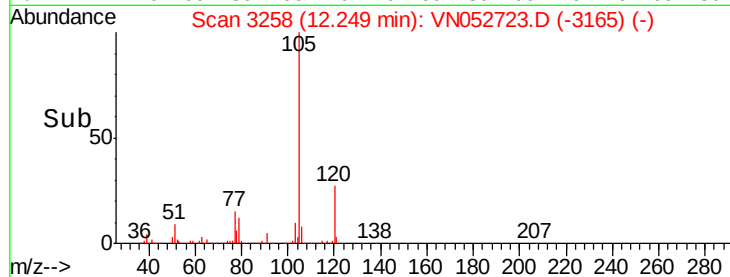
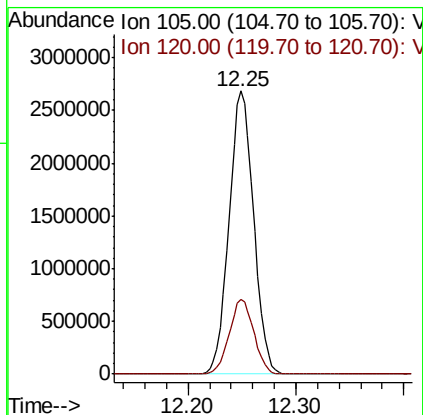
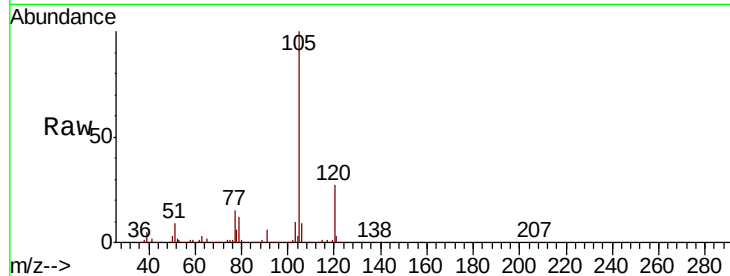
MW-4

Tot Ion:105 Resp: 4262722

Ion Ratio Lower Upper

105 100

120 26.4 13.1 39.3



#74

N-ethyl acetate

Concen: 0.212 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

Tgt Ion: 43 Resp: 2747

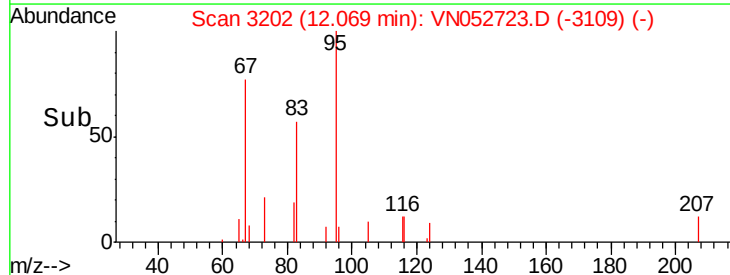
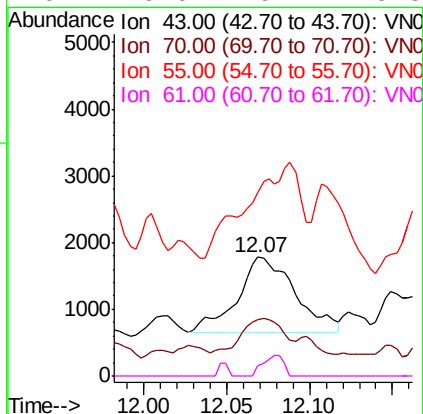
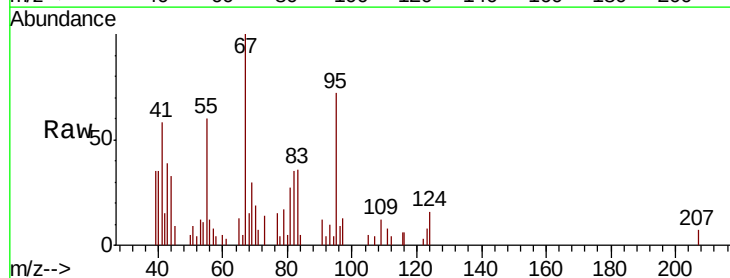
Ion Ratio Lower Upper

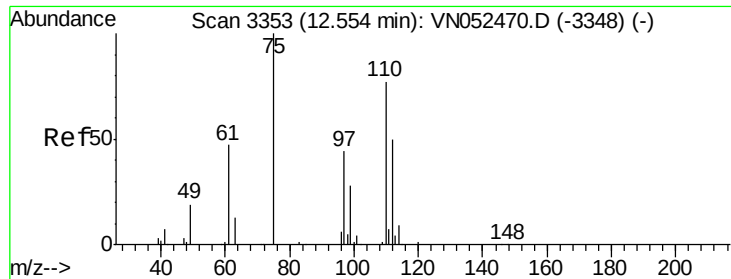
43 100

70 26.9 33.8 50.8#

55 115.8 20.0 30.0#

61 0.0 19.7 29.5#





#76

1,2,3-Trichloropropane

Concen: 2.564 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.04 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

Instrument :

MSVOA_N

ClientSampled :

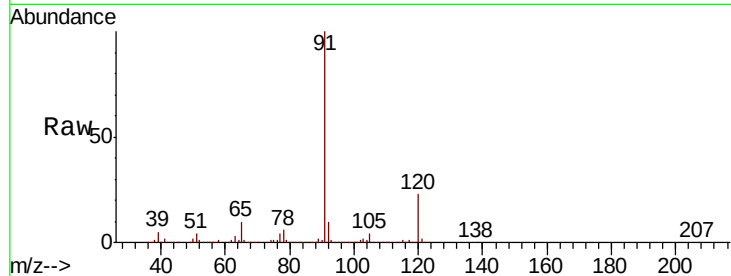
MW-4

Tot Ion: 75 Resp: 25824

Ion Ratio Lower Upper

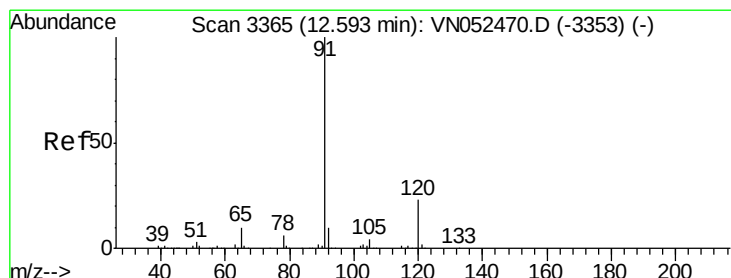
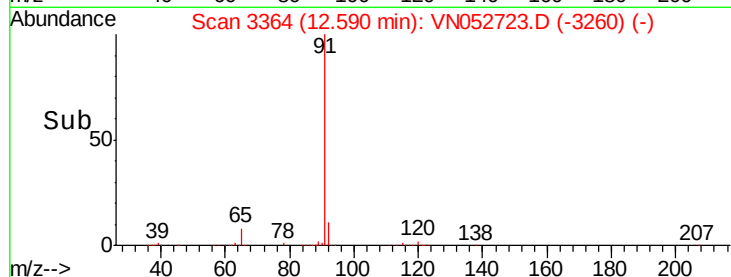
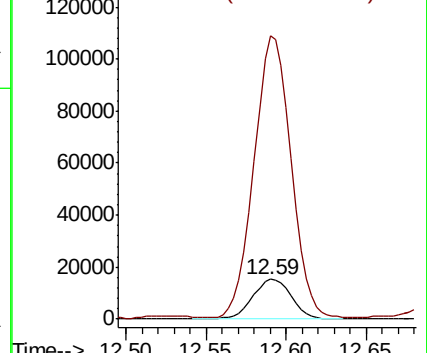
75 100

77 665.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#78

n-propylbenzene

Concen: 78.851 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN052723.D

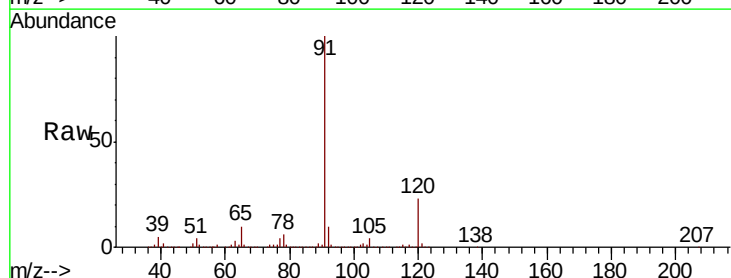
Acq: 7 Dec 2018 13:39

Tgt Ion: 91 Resp: 4590246

Ion Ratio Lower Upper

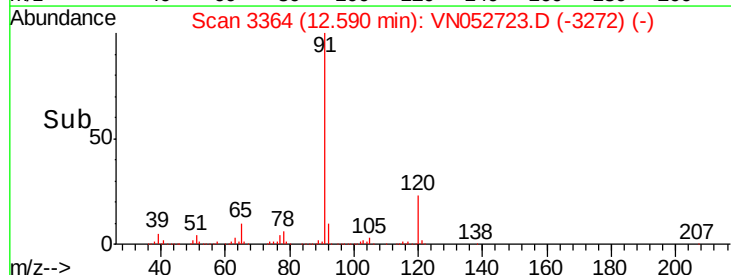
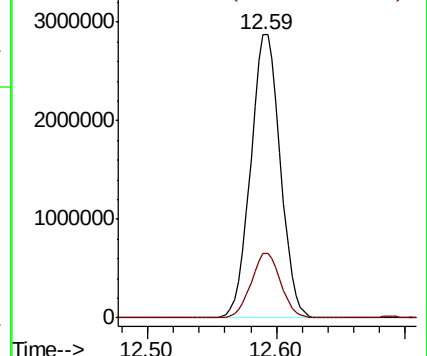
91 100

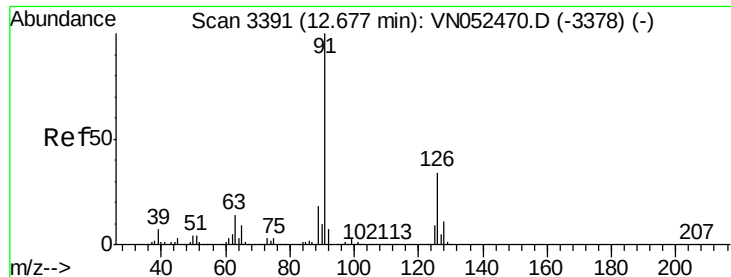
120 22.7 11.3 33.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

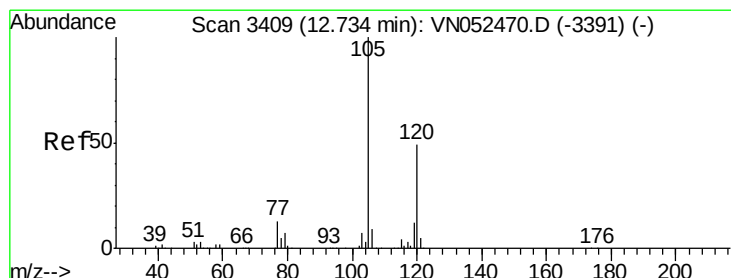
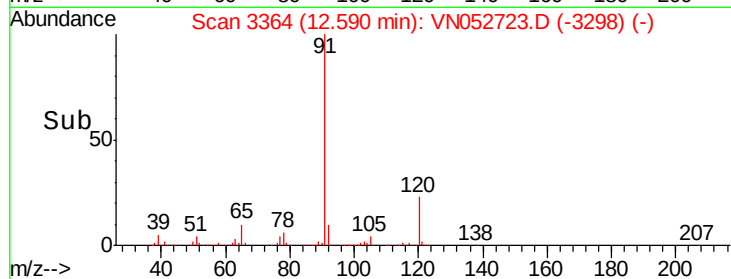
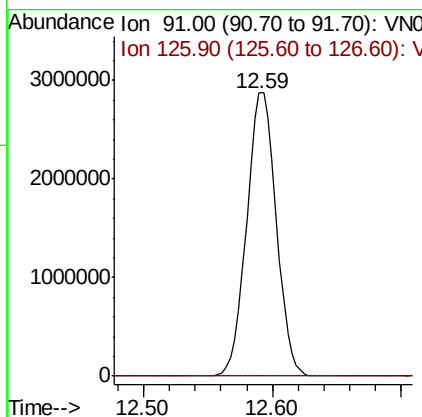
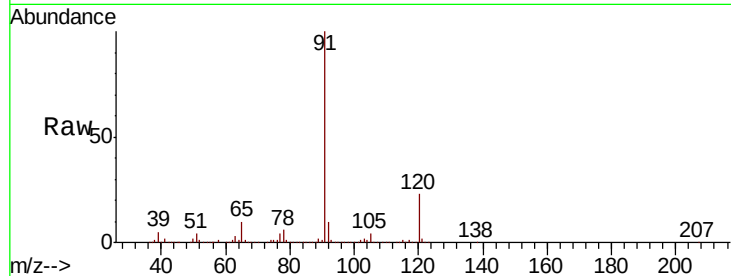




#79
 2-Chlorotoluene
 Concen: 132.411 ug/l
 RT: 12.59 min Scan# 3364
 Delta R.T. -0.09 min
 Lab File: VN052723.D
 Acq: 7 Dec 2018 13:39

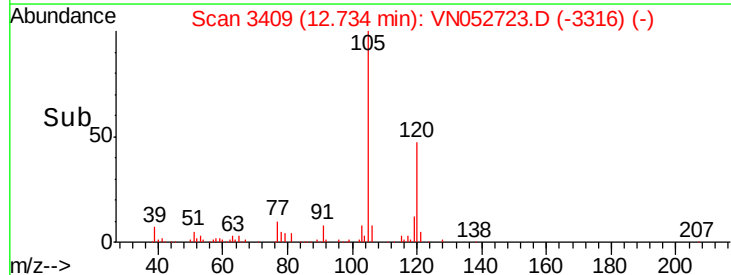
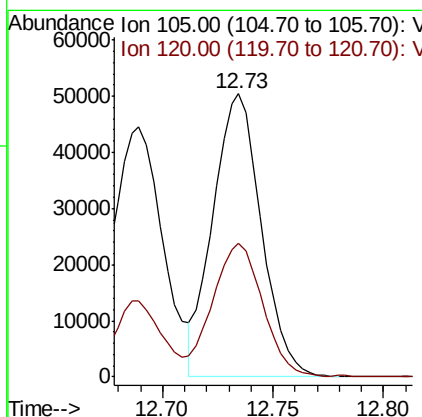
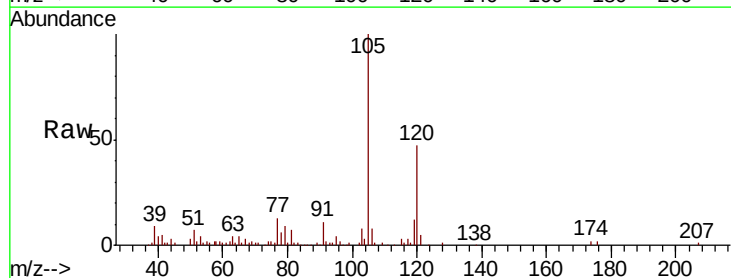
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4

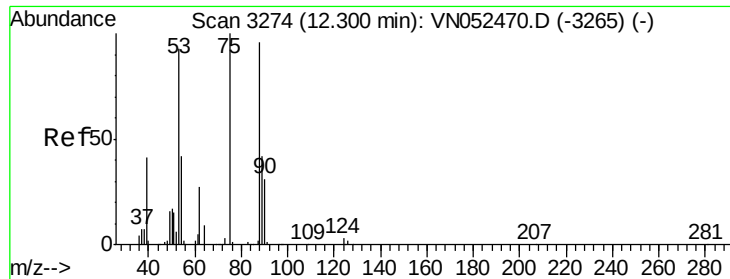
Tot Ion: 91 Resp: 4590246
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.2 51.6#



#80
 1,3,5-Trimethylbenzene
 Concen: 1.870 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN052723.D
 Acq: 7 Dec 2018 13:39

Tgt Ion:105 Resp: 76414
 Ion Ratio Lower Upper
 105 100
 120 48.6 24.3 73.0





#81

trans-1,4-Dichloro-2-butene

Concen: 14.944 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.05 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

Instrument :

MSVOA_N

ClientSampled :

MW-4

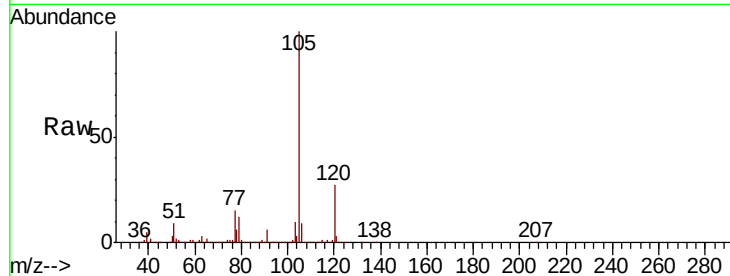
Tot Ion: 75 Resp: 45071

Ion Ratio Lower Upper

75 100

53 109.3 77.4 116.0

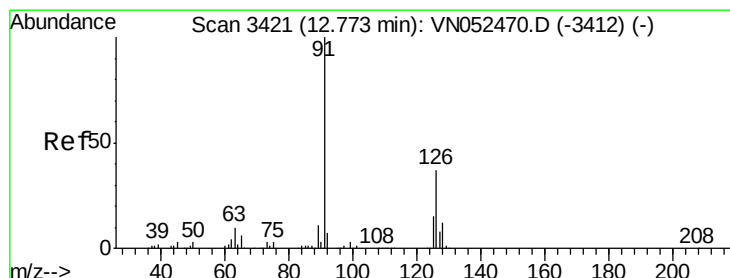
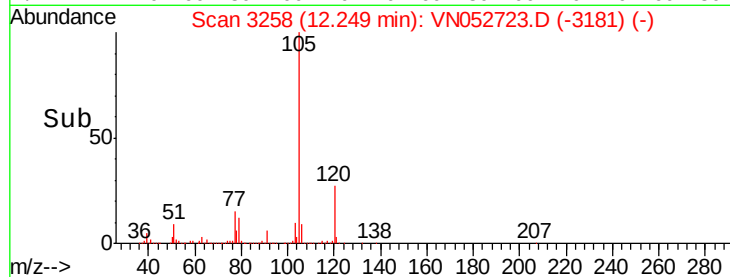
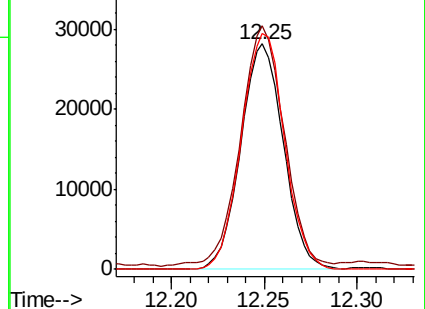
89 106.2 35.4 53.2#



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



#82

4-Chlorotoluene

Concen: 131.381 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.18 min

Lab File: VN052723.D

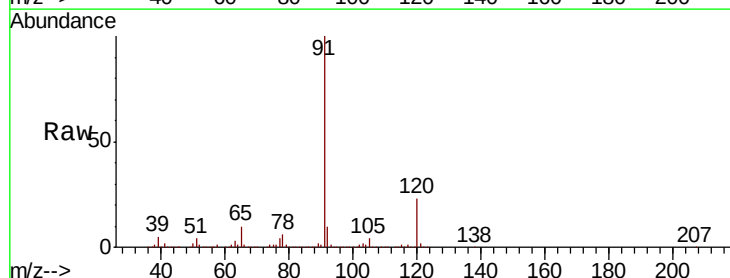
Acq: 7 Dec 2018 13:39

Tgt Ion: 91 Resp: 4590246

Ion Ratio Lower Upper

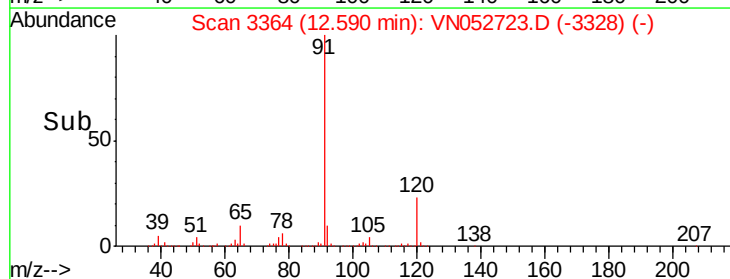
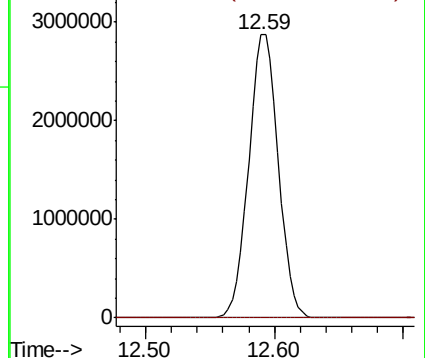
91 100

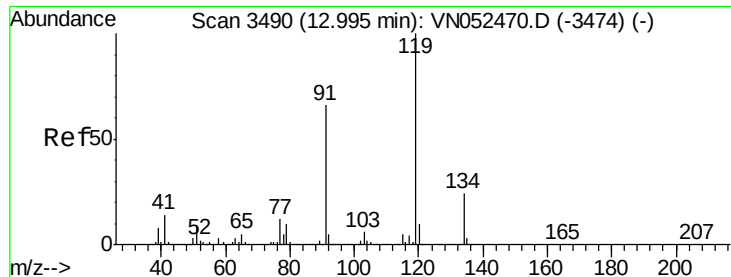
126 0.0 16.9 50.6#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

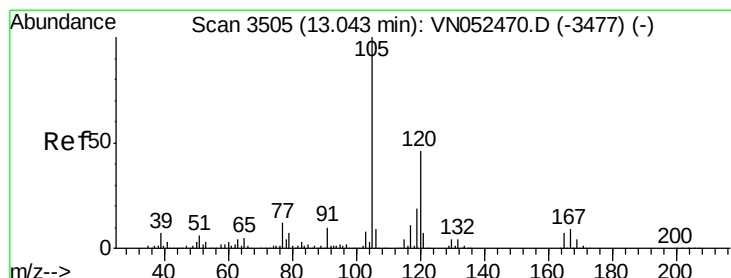
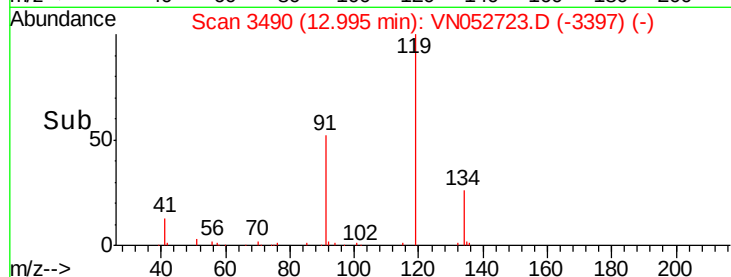
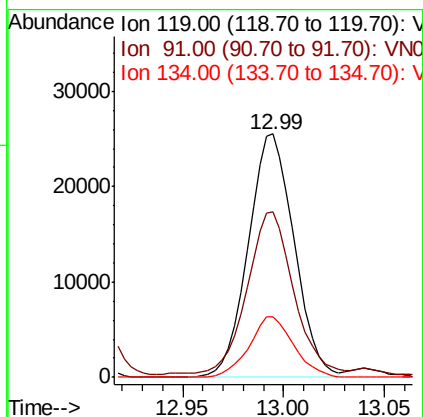
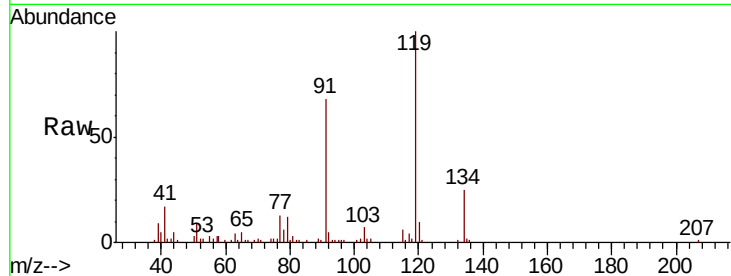




#83
 tert-Butylbenzene
 Concen: 1.115 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN052723.D
 Acq: 7 Dec 2018 13:39

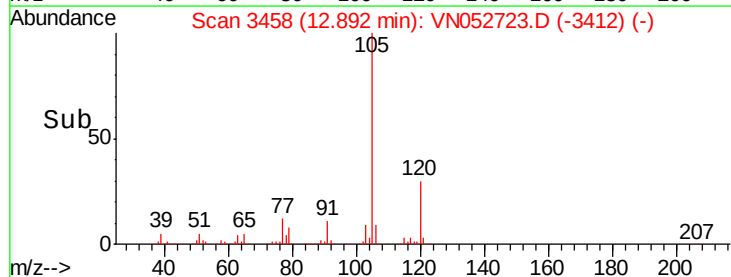
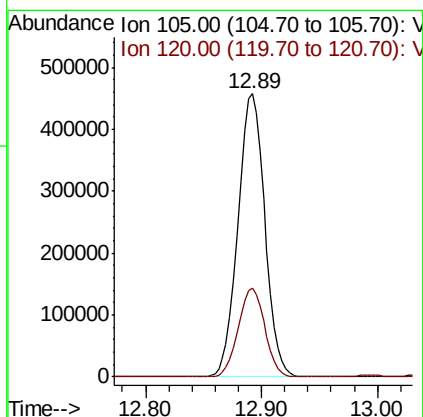
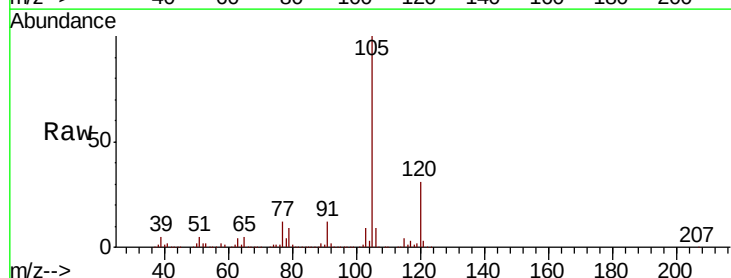
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4

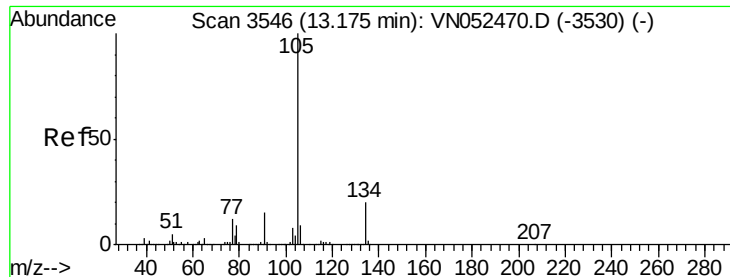
Tot Ion:119 Resp: 40622
 Ion Ratio Lower Upper
 119 100
 91 67.8 32.3 96.9
 134 24.1 13.0 38.9



#84
 1,2,4-Trimethylbenzene
 Concen: 17.872 ug/l
 RT: 12.89 min Scan# 3458
 Delta R.T. -0.15 min
 Lab File: VN052723.D
 Acq: 7 Dec 2018 13:39

Tgt Ion:105 Resp: 731997
 Ion Ratio Lower Upper
 105 100
 120 31.1 22.8 68.4

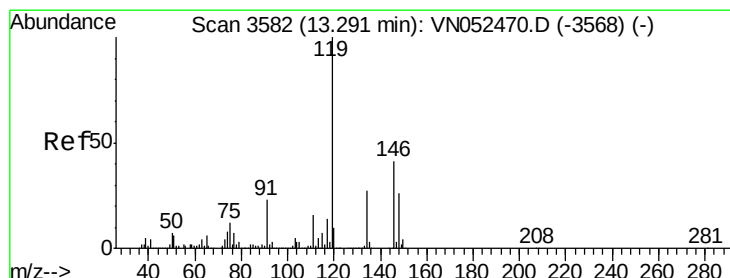
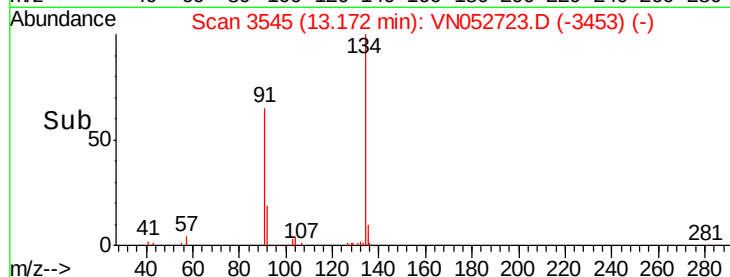
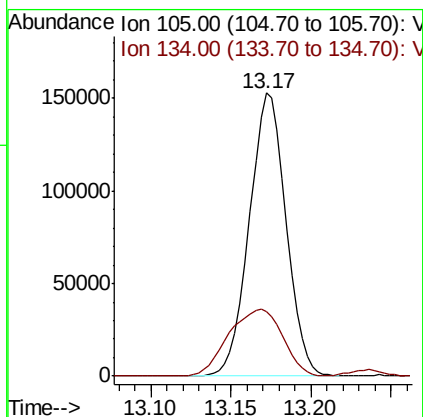
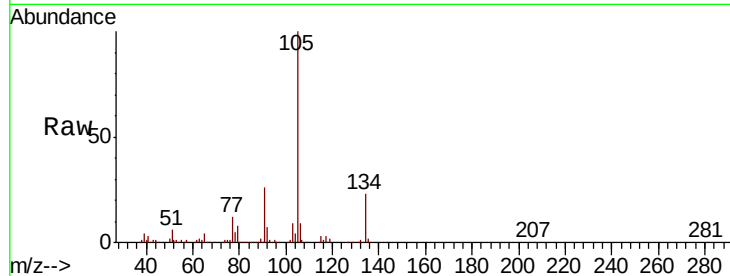




#85
 sec-Butylbenzene
 Concen: 4.829 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. -0.00 min
 Lab File: VN052723.D
 Acq: 7 Dec 2018 13:39

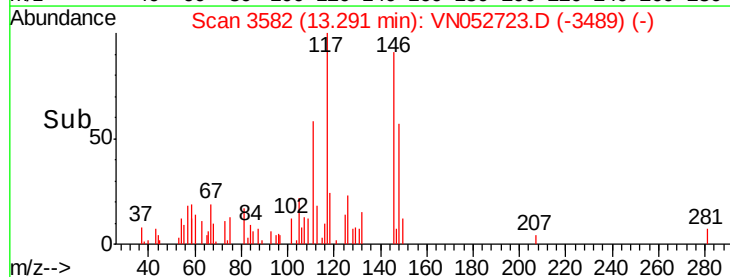
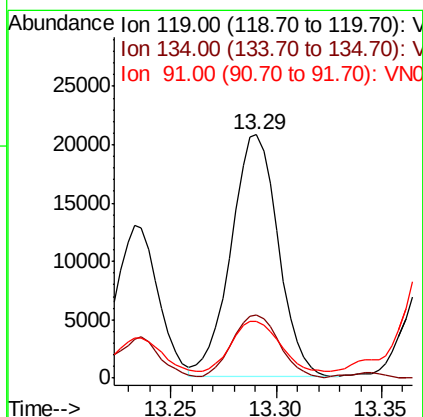
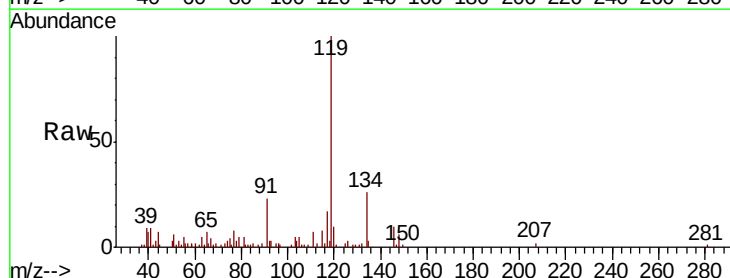
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4

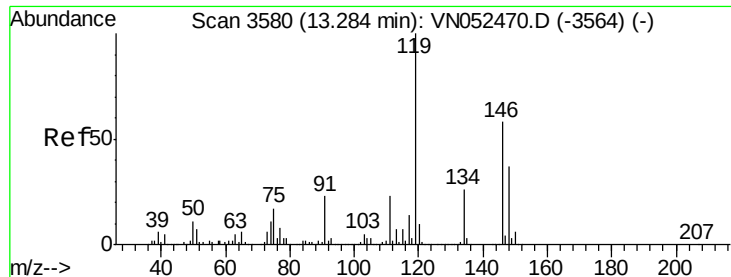
Tot Ion:105 Resp: 239617
 Ion Ratio Lower Upper
 105 100
 134 34.9 9.9 29.7#



#86
 p-Isopropyltoluene
 Concen: 0.760 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN052723.D
 Acq: 7 Dec 2018 13:39

Tgt Ion:119 Resp: 32140
 Ion Ratio Lower Upper
 119 100
 134 26.4 13.4 40.2
 91 0.0 11.4 34.2#

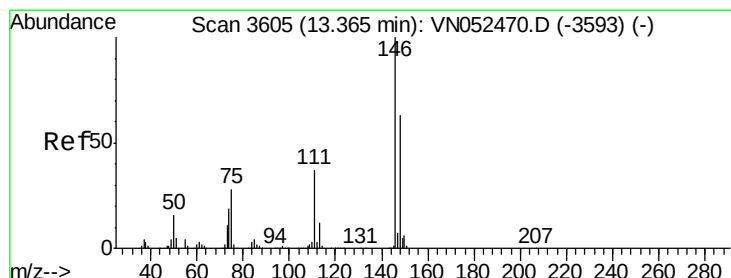
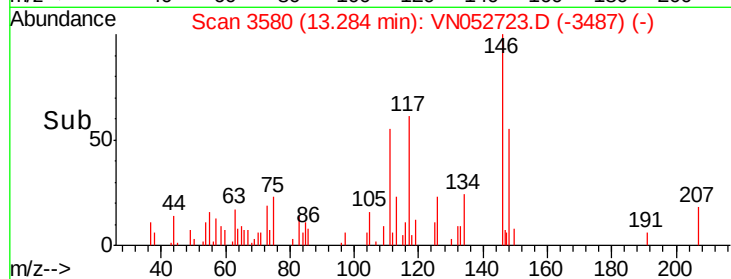
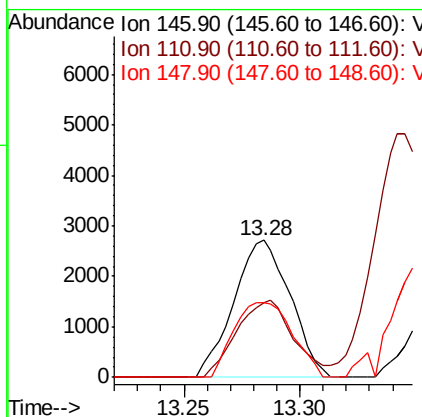
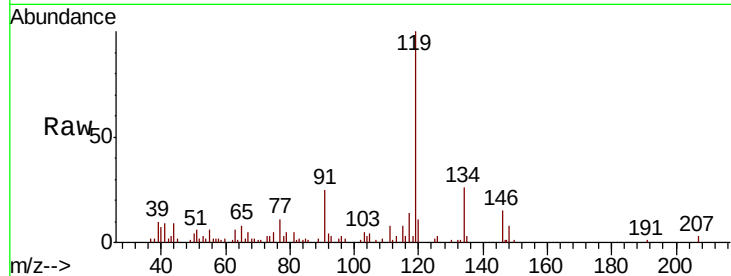




#87
 1,3-Dichlorobenzene
 Concen: 0.207 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN052723.D
 Acq: 7 Dec 2018 13:39

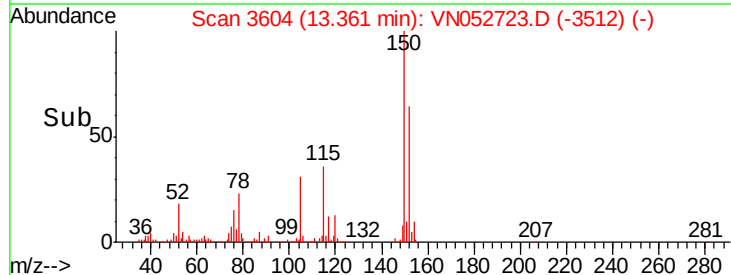
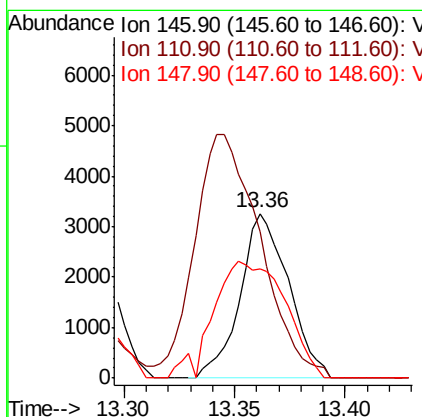
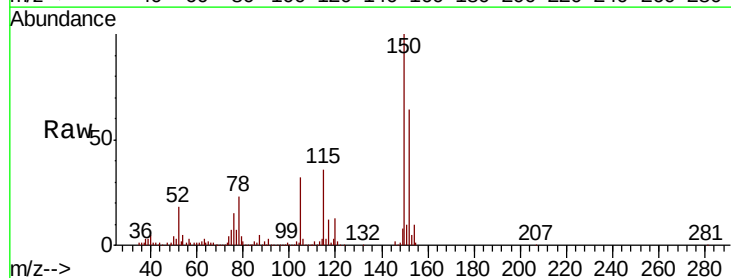
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4

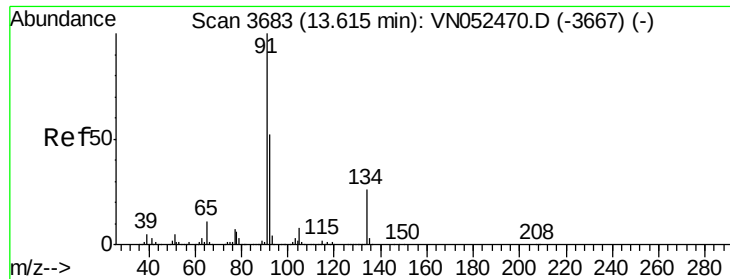
Tot Ion:146 Resp: 4590
 Ion Ratio Lower Upper
 146 100
 111 57.1 19.4 58.4
 148 56.7 31.8 95.4



#88
 1,4-Dichlorobenzene
 Concen: 0.228 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN052723.D
 Acq: 7 Dec 2018 13:39

Tgt Ion:146 Resp: 4979
 Ion Ratio Lower Upper
 146 100
 111 199.9 18.6 56.0#
 148 104.6 31.9 95.9#

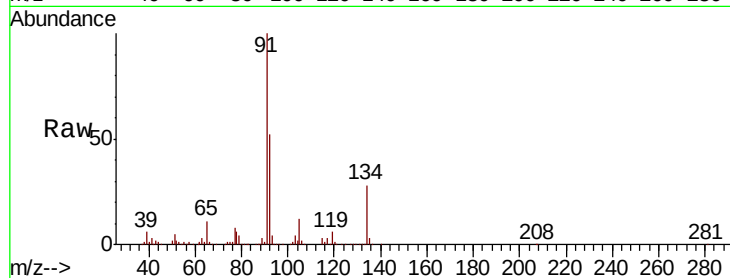




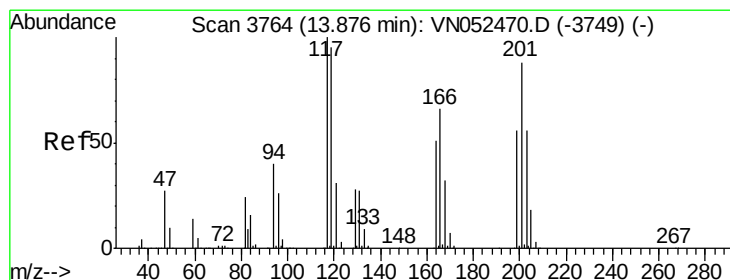
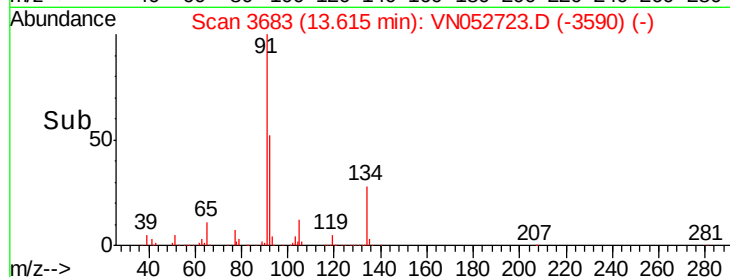
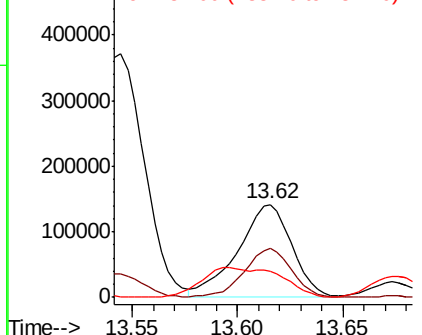
#89
n-Butylbenzene
Concen: 7.148 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN052723.D
Acq: 7 Dec 2018 13:39

Instrument :
MSVOA_N
ClientSampled :
MW-4

Tot Ion	91	Resp	251255
Ion	Ratio	Lower	Upper
91	100		
92	45.9	26.1	78.3
134	27.6	13.0	38.9

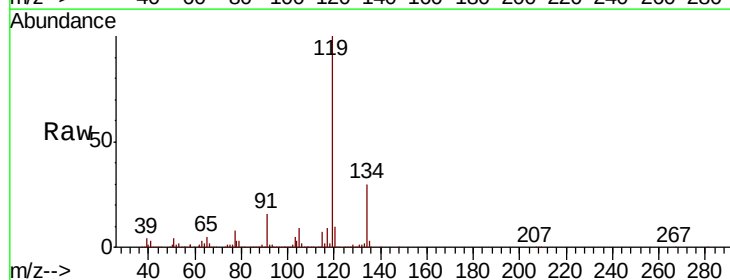


Abundance Ion 91.00 (90.70 to 91.70): VN052470.D (-3667) (-)
Ion 92.00 (91.70 to 92.70): VN052470.D (-3667) (-)
Ion 134.00 (133.70 to 134.70): VN052470.D (-3667) (-)

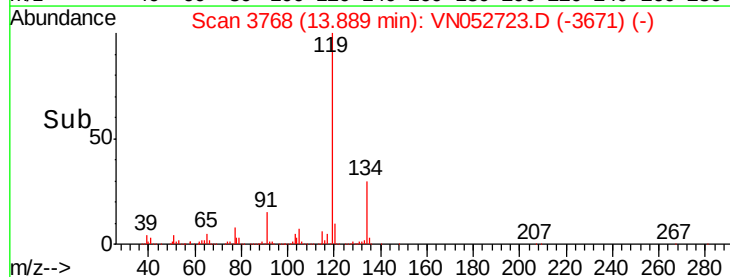
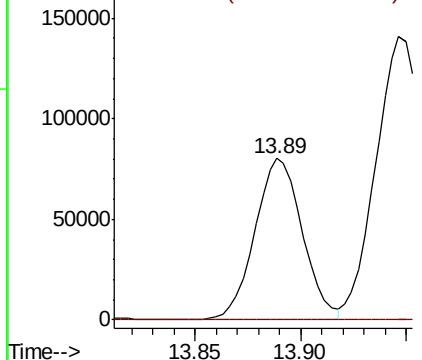


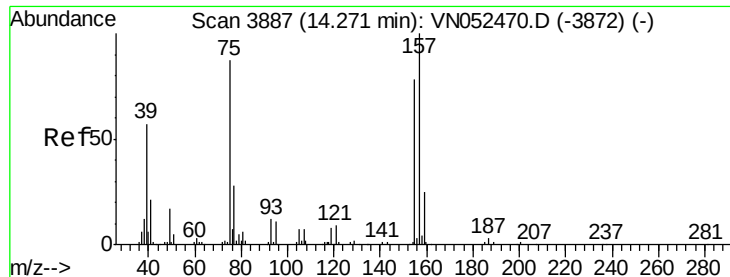
#90
Hexachloroethane
Concen: 17.405 ug/l
RT: 13.89 min Scan# 3768
Delta R.T. 0.01 min
Lab File: VN052723.D
Acq: 7 Dec 2018 13:39

Tgt Ion	117	Resp	124565
Ion	Ratio	Lower	Upper
117	100		
201	0.2	43.6	130.9#



Abundance Ion 116.80 (116.50 to 117.50): VN052470.D (-3749) (-)
Ion 200.70 (200.40 to 201.40): VN052470.D (-3749) (-)





#92

1,2-Dibromo-3-Chloropropane

Concen: 5.057 ug/l

RT: 14.21 min Scan# 3868

Delta R.T. -0.06 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

Instrument :

MSVOA_N

ClientSampleId :

MW-4

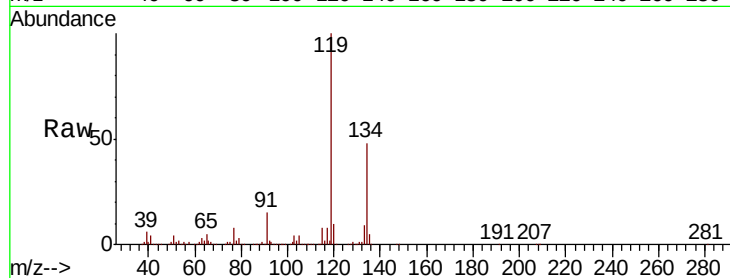
Tot Ion: 75 Resp: 8431

Ion Ratio Lower Upper

75 100

155 0.0 45.3 135.9#

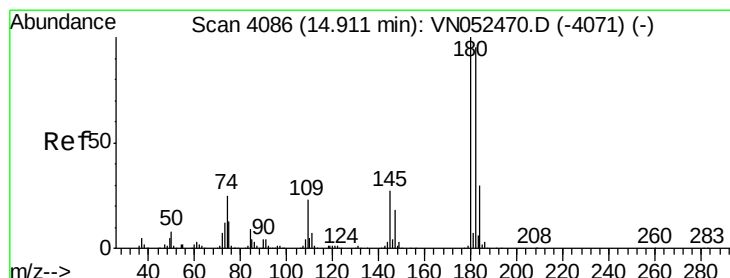
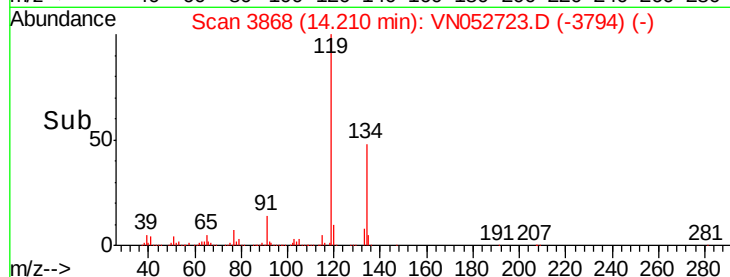
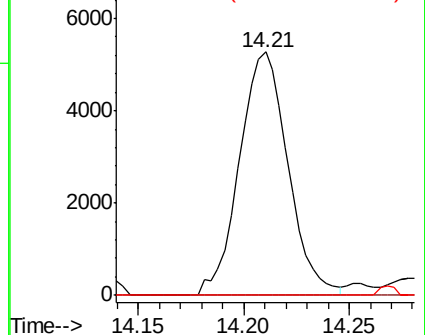
157 0.0 58.1 174.2#



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



#93

1,2,4-Trichlorobenzene

Concen: 3.601 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. -0.00 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

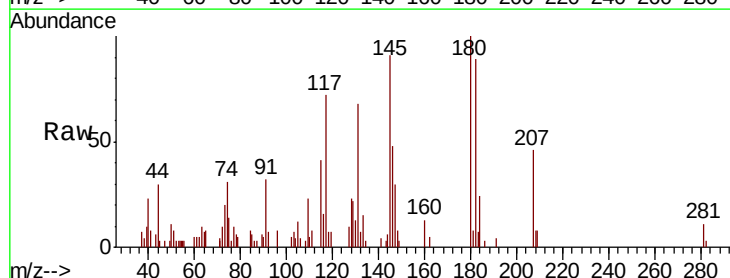
Tgt Ion:180 Resp: 9482

Ion Ratio Lower Upper

180 100

182 94.2 47.8 143.4

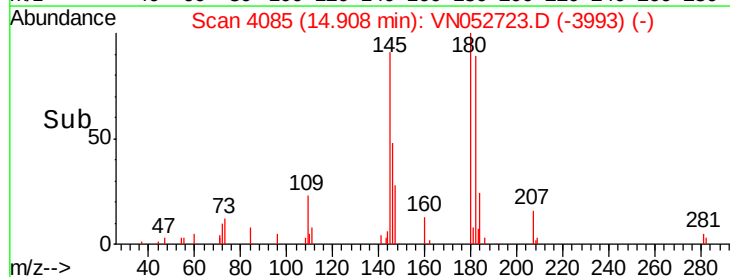
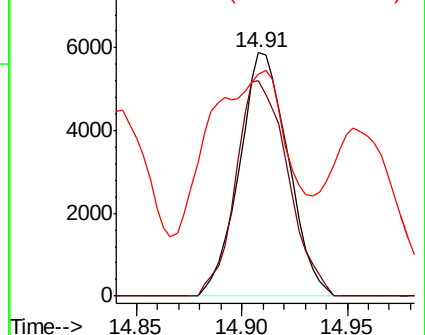
145 166.1 14.1 42.3#

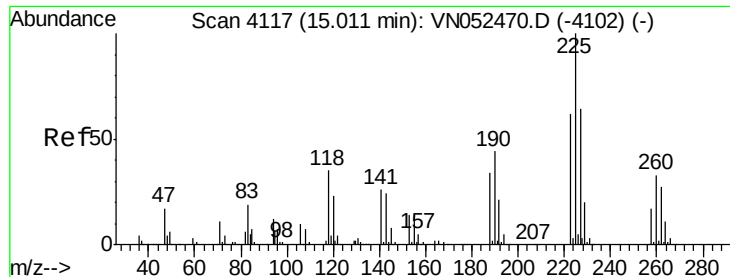


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.355 ug/l

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

Instrument :

MSVOA_N

ClientSampled :

MW-4

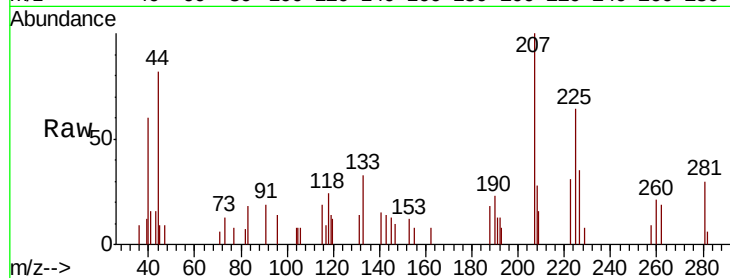
Tot Ion:225 Resp: 2420

Ion Ratio Lower Upper

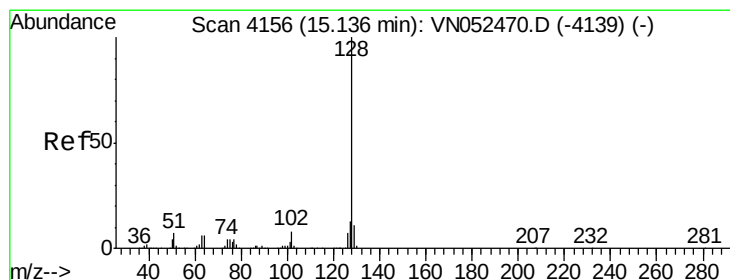
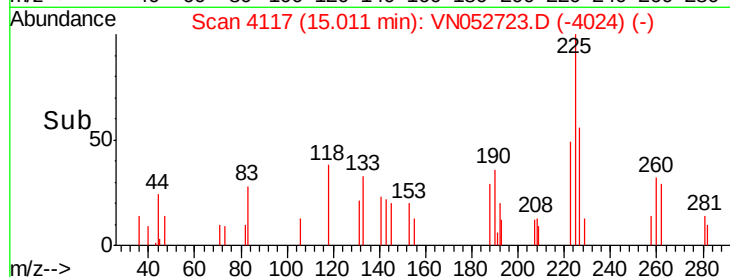
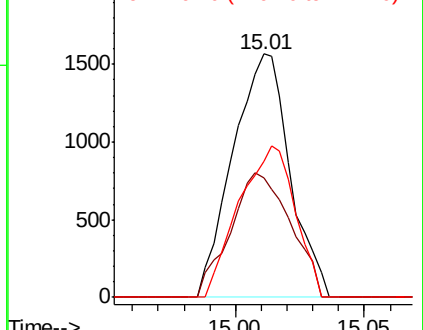
225 100

223 53.7 31.4 94.2

227 61.3 32.5 97.4



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 5.604 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

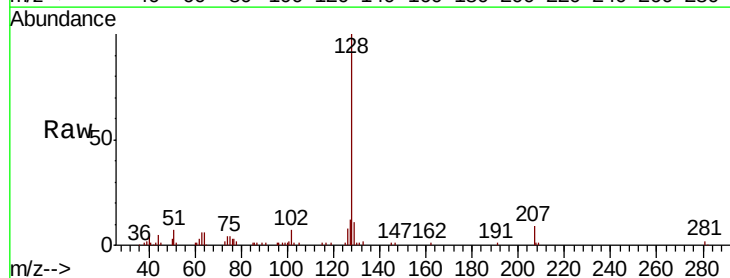
Tgt Ion:128 Resp: 57433

Ion Ratio Lower Upper

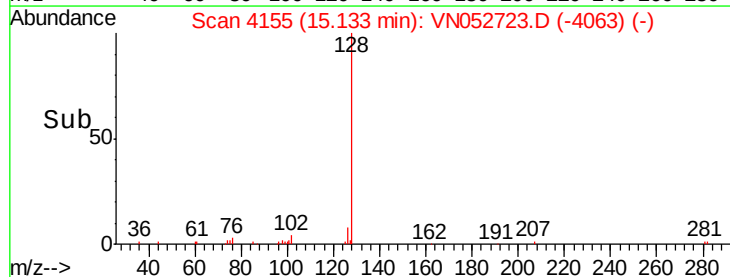
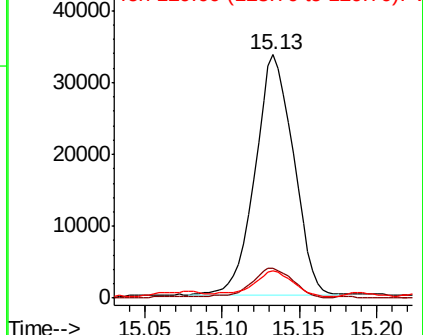
128 100

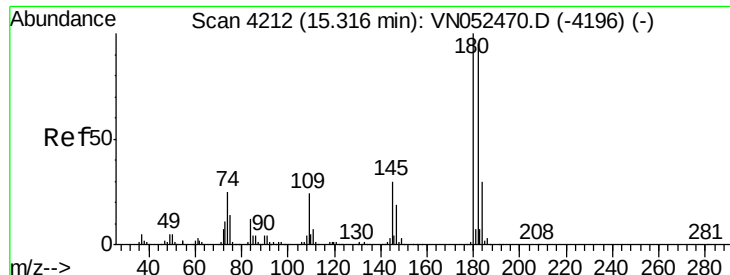
127 13.0 10.2 15.2

129 10.3 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 3.608 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN052723.D
 Acq: 7 Dec 2018 13:39

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4

Tot Ion	Ratio	Lower	Upper
180	100		
182	87.8	47.8	143.3
145	0.0	15.2	45.5#

