

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012219\
 Data File : VN053522.D
 Acq On : 22 Jan 2019 16:29
 Operator : JC/SP
 Sample : K1215-11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-TW530-4246

Quant Time: Jan 23 02:55:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 03:10:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	818071	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1277165	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1208856	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	546045	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	419323	51.86	ug/l	0.00
Spiked Amount			Recovery	=	103.72%	
35) Dibromofluoromethane	7.59	113	388479	53.30	ug/l	0.00
Spiked Amount			Recovery	=	106.60%	
50) Toluene-d8	10.09	98	1599061	51.87	ug/l	0.00
Spiked Amount			Recovery	=	103.74%	
62) 4-Bromofluorobenzene	12.40	95	556963	51.53	ug/l	0.00
Spiked Amount			Recovery	=	103.06%	

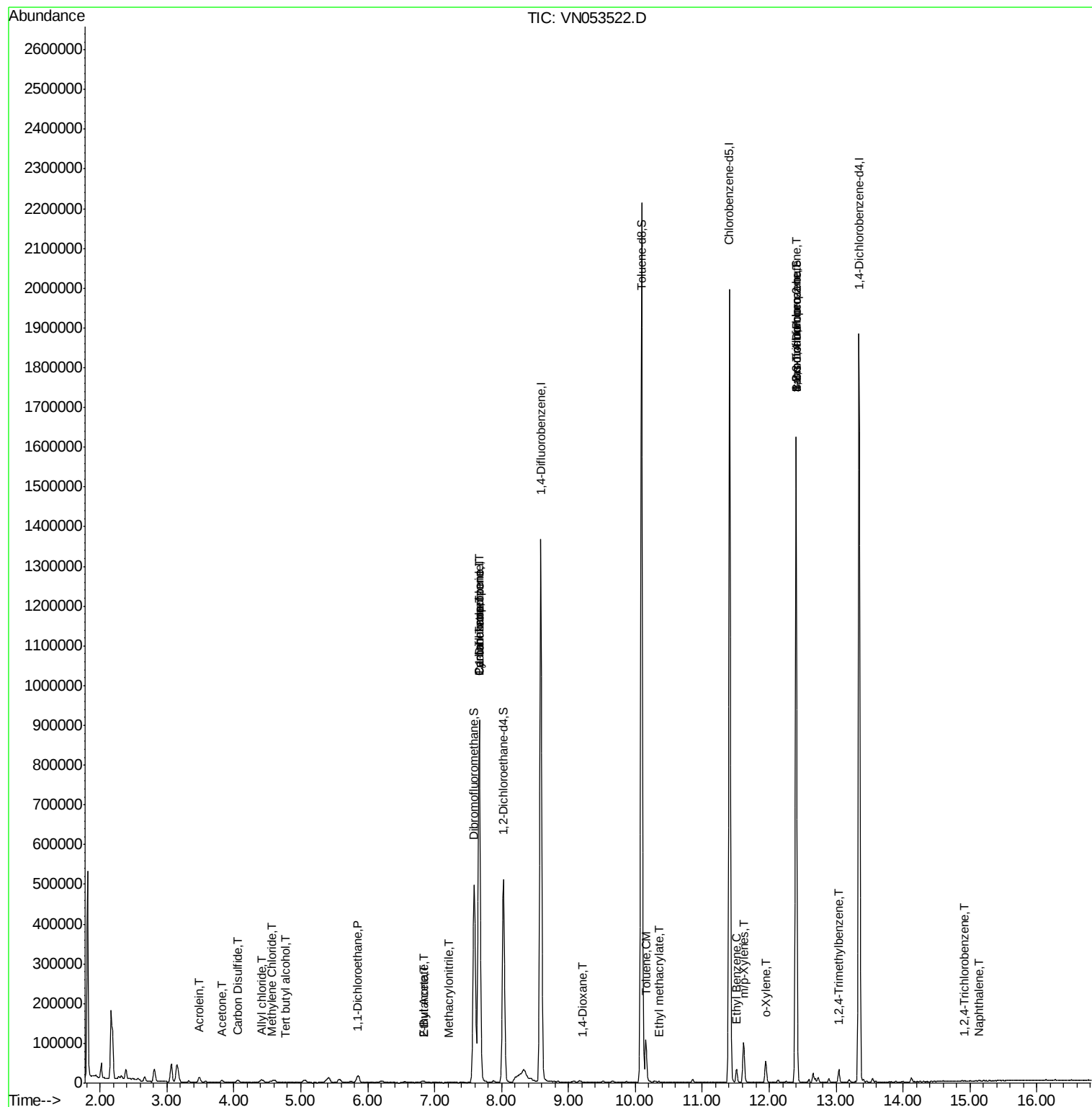
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.77	59	198	0.500	ug/l #	72
13) Acrolein	3.48	56	371	23.174	ug/l #	1
14) Allyl chloride	4.41	41	2736	0.231	ug/l #	43
16) Acetone	3.82	43	9054	4.773	ug/l	91
17) Carbon Disulfide	4.06	76	11677	0.530	ug/l #	88
20) Methylene Chloride	4.55	84	2242	0.259	ug/l #	81
24) 1,1-Dichloroethane	5.85	63	25464	1.744	ug/l	98
25) 2-Butanone	6.85	43	2273	0.778	ug/l	92
31) Cyclohexane	7.66	56	13667	0.741	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	53635	4.611	ug/l #	49
37) Ethyl Acetate	6.85	43	2273	0.340	ug/l #	67
38) Carbon Tetrachloride	7.67	117	69568	6.318	ug/l #	16
41) Methacrylonitrile	7.20	41	130	0.700	ug/l #	42
49) 1,4-Dioxane	9.21	88	60	0.989	ug/l #	1
52) Toluene	10.16	92	46215	2.106	ug/l	100
56) Ethyl methacrylate	10.36	69	180	2.074	ug/l #	6
67) Ethyl Benzene	11.51	91	25529	0.585	ug/l	97
68) m/p-Xylenes	11.62	106	32001	1.944	ug/l	97
69) o-Xylene	11.95	106	14994	0.937	ug/l	91
71) Bromoform	12.40	173	3632	0.593	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	258934	35.984	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	258934	88.986	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	19704	0.601	ug/l	98
93) 1,2,4-Trichlorobenzene	14.90	180	110	2.780	ug/l #	33
95) Naphthalene	15.14	128	1558	4.048	ug/l #	75

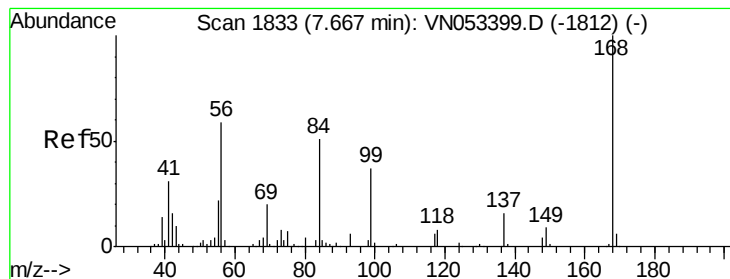
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jan 16 03:10:53 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053522.D

Acq: 22 Jan 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

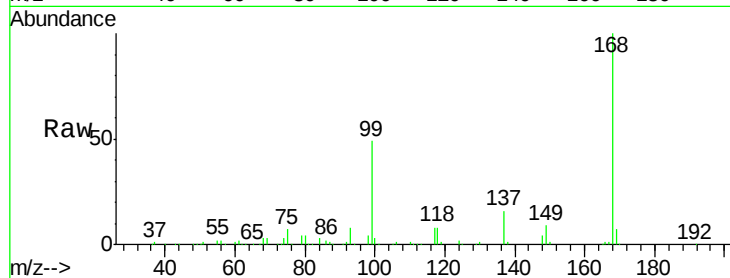
SA-TW530-4246

Tot Ion:168 Resp: 818071

Ion Ratio Lower Upper

168 100

99 48.6 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

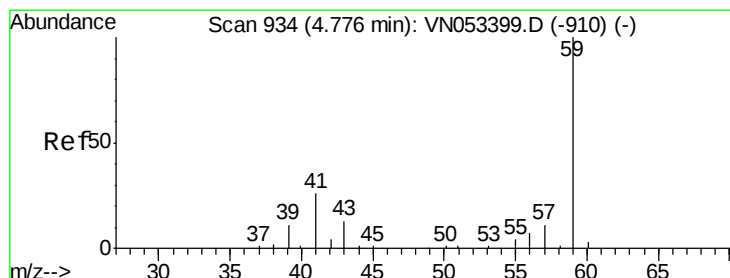
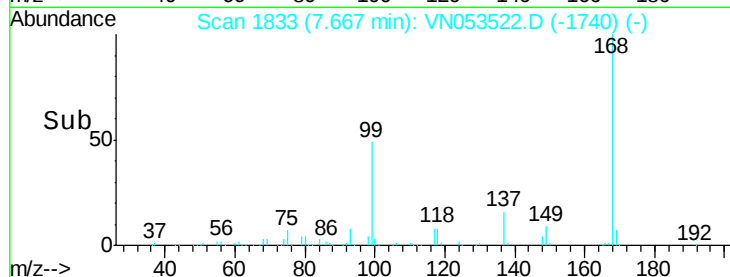
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.500 ug/l

RT: 4.77 min Scan# 933

Delta R.T. -0.00 min

Lab File: VN053522.D

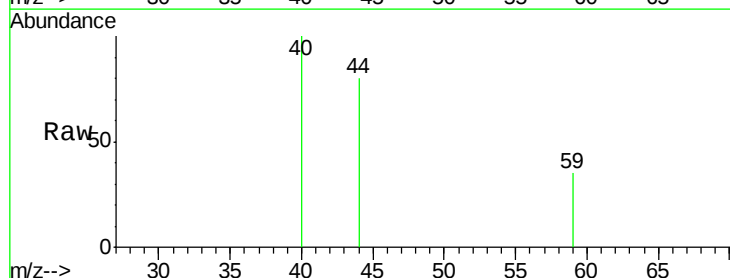
Acq: 22 Jan 2019 16:29

Tgt Ion: 59 Resp: 198

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.77

300

250

200

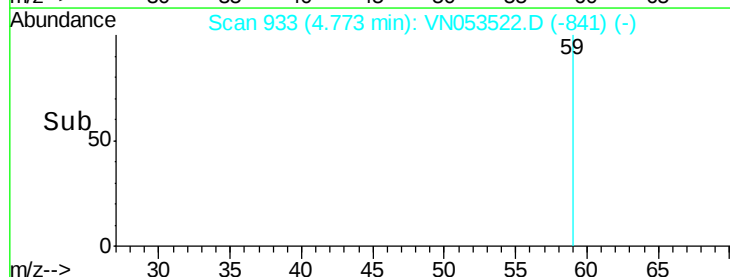
150

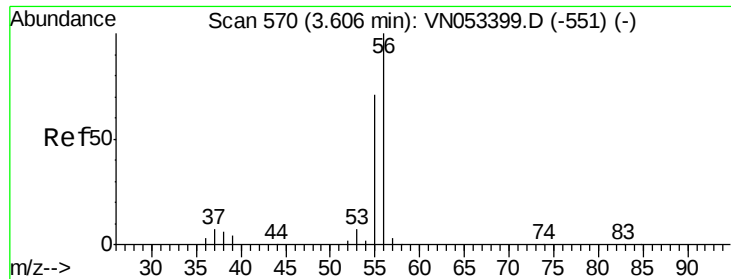
100

50

0

Time-->

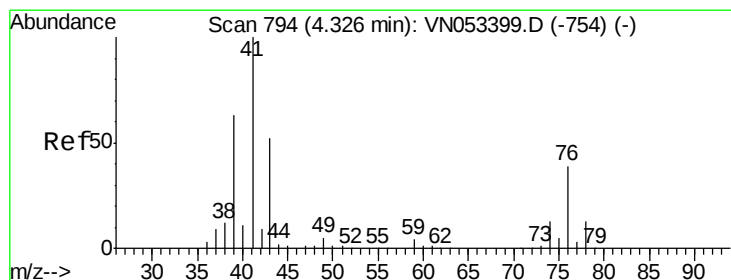
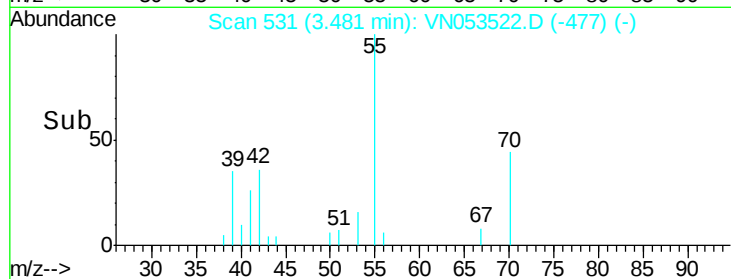
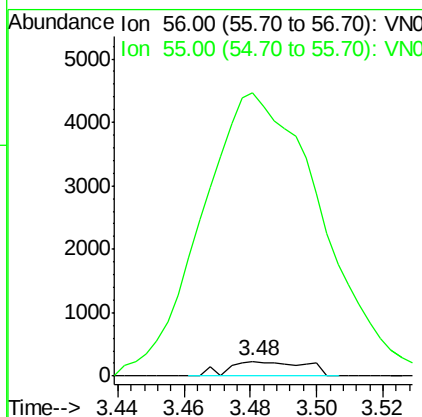
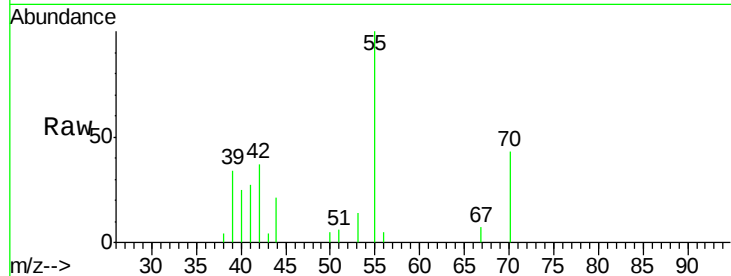




#13
 Acrolein
 Concen: 23.174 ug/l
 RT: 3.48 min Scan# 531
 Delta R.T. -0.13 min
 Lab File: VN053522.D
 Acq: 22 Jan 2019 16:29

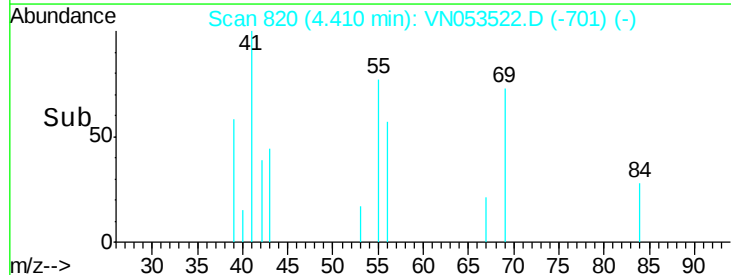
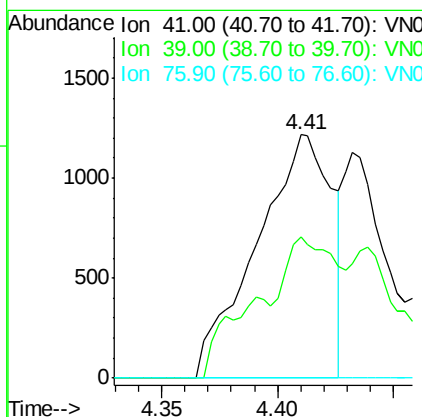
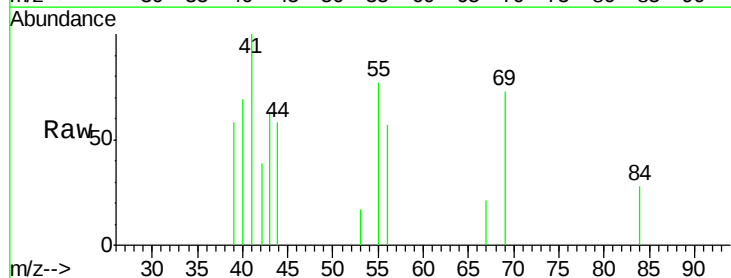
Instrument :
 MSVOA_N
 ClientSampleId :
 SA-TW530-4246

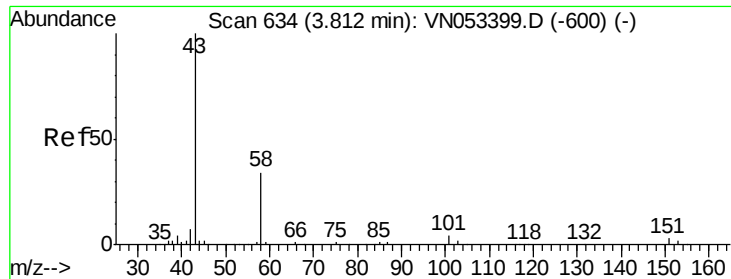
Tot Ion: 56 Resp: 371
 Ion Ratio Lower Upper
 56 100
 55 3036.9 57.4 86.0#



#14
 Allyl chloride
 Concen: 0.231 ug/l
 RT: 4.41 min Scan# 820
 Delta R.T. 0.08 min
 Lab File: VN053522.D
 Acq: 22 Jan 2019 16:29

Tgt Ion: 41 Resp: 2736
 Ion Ratio Lower Upper
 41 100
 39 20.0 48.9 73.3#
 76 0.0 29.4 44.2#





#16

Acetone

Concen: 4.773 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN053522.D

Acq: 22 Jan 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

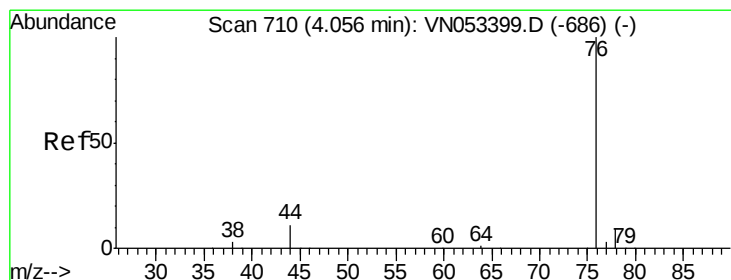
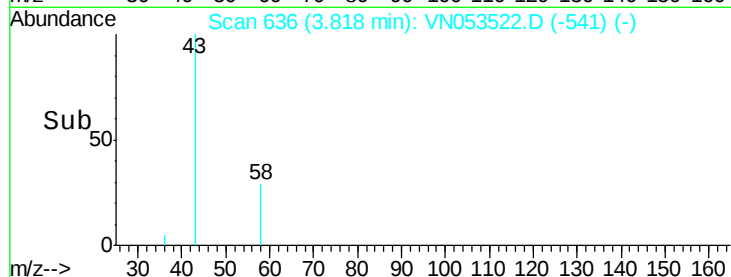
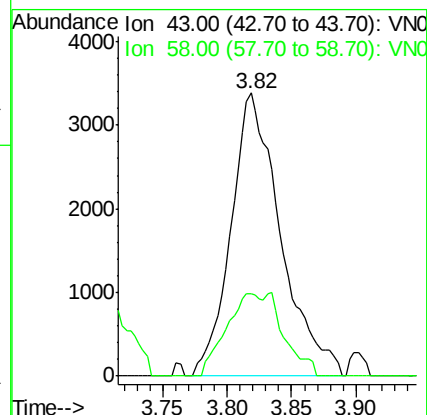
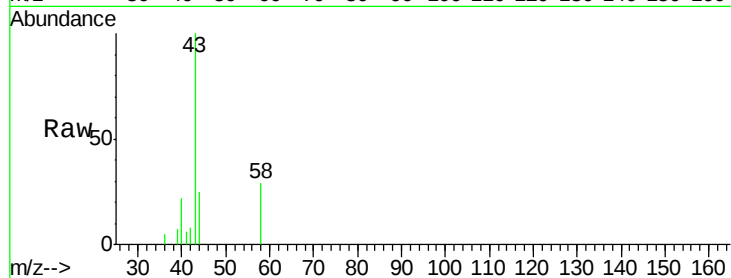
SA-TW530-4246

Tot Ion: 43 Resp: 9054

Ion Ratio Lower Upper

43 100

58 29.0 27.1 40.7



#17

Carbon Disulfide

Concen: 0.530 ug/l

RT: 4.06 min Scan# 710

Delta R.T. 0.00 min

Lab File: VN053522.D

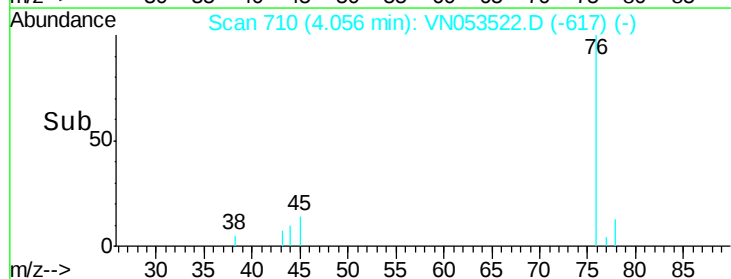
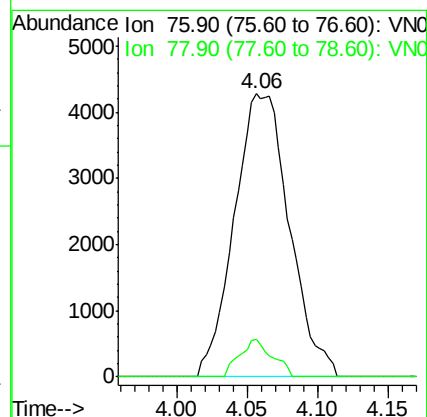
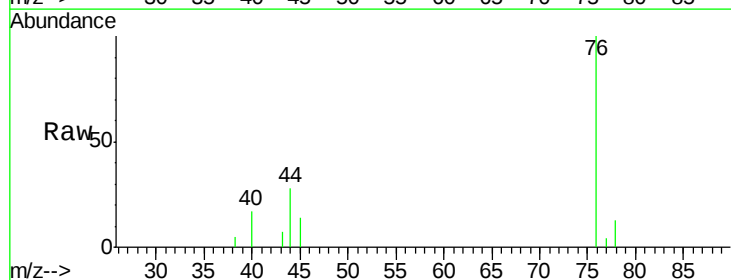
Acq: 22 Jan 2019 16:29

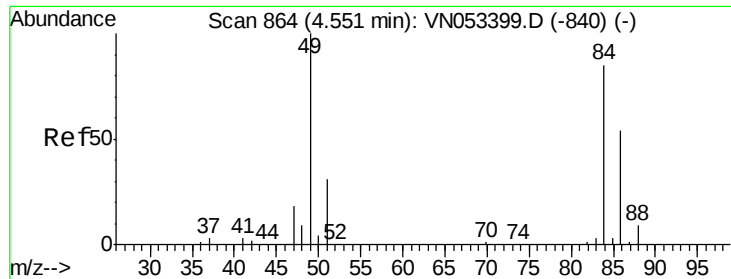
Tgt Ion: 76 Resp: 11677

Ion Ratio Lower Upper

76 100

78 13.4 7.3 10.9#



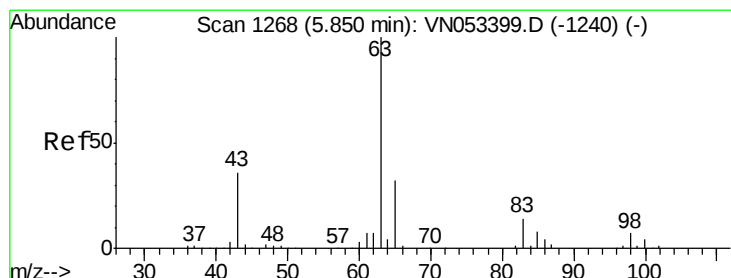
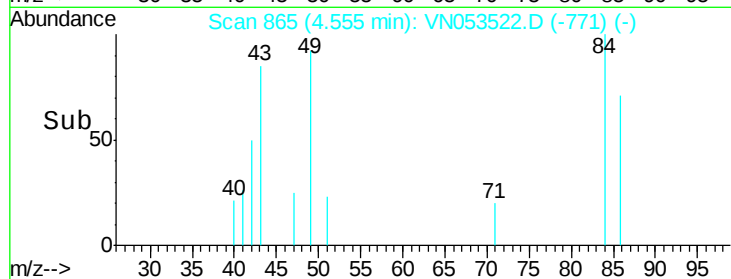
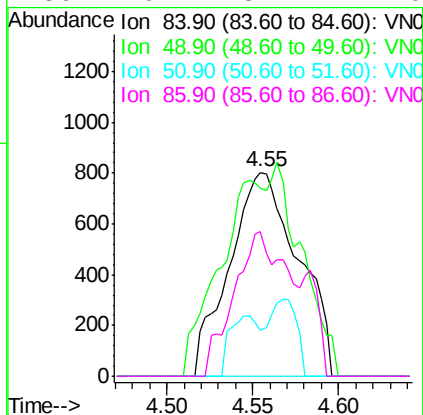
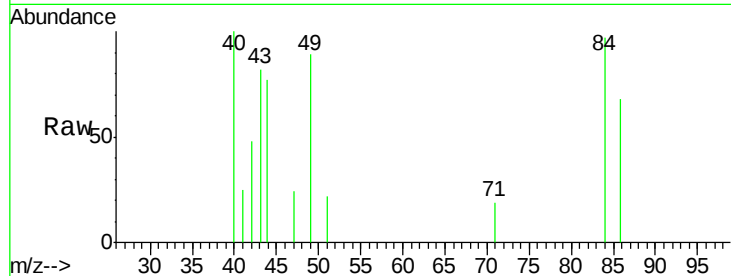


#20
Methylene Chloride
Concen: 0.259 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053522.D
Acq: 22 Jan 2019 16:29

Instrument :
MSVOA_N
ClientSampleId :
SA-TW530-4246

Tot Ion: 84 Resp: 2242

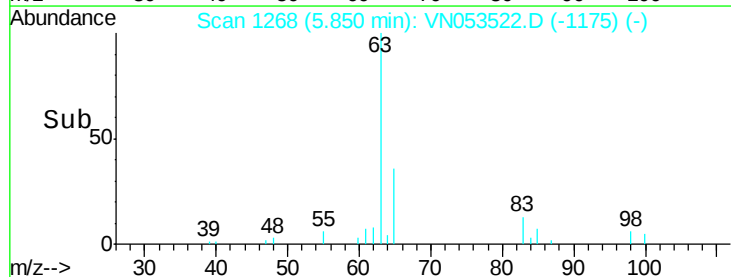
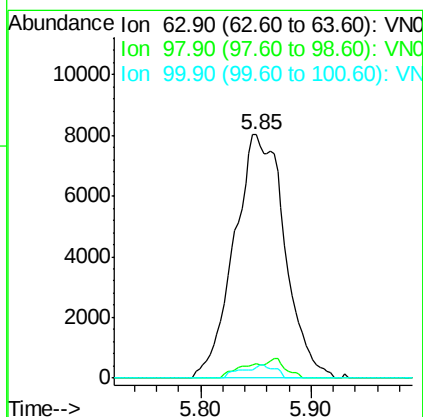
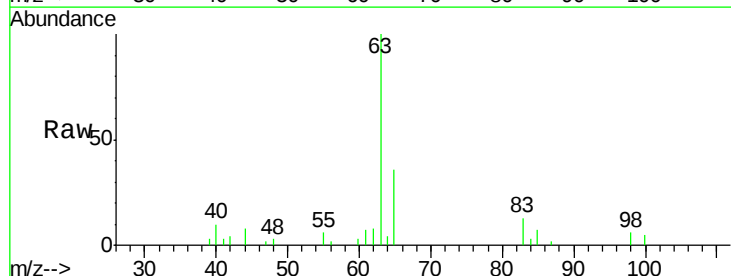
Ion	Ratio	Lower	Upper
84	100		
49	92.3	94.3	141.5#
51	22.8	29.4	44.2#
86	70.7	51.4	77.0

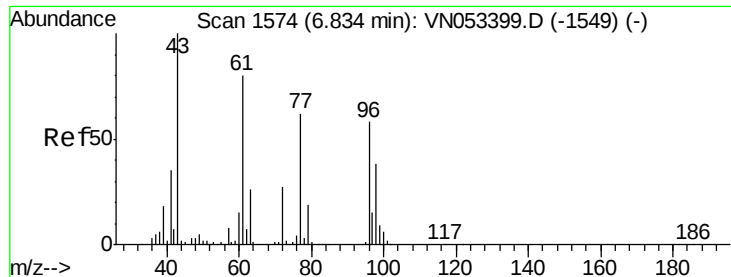


#24
1,1-Dichloroethane
Concen: 1.744 ug/l
RT: 5.85 min Scan# 1268
Delta R.T. 0.00 min
Lab File: VN053522.D
Acq: 22 Jan 2019 16:29

Tgt Ion: 63 Resp: 25464

Ion	Ratio	Lower	Upper
63	100		
98	5.8	3.3	9.9
100	4.5	2.1	6.5

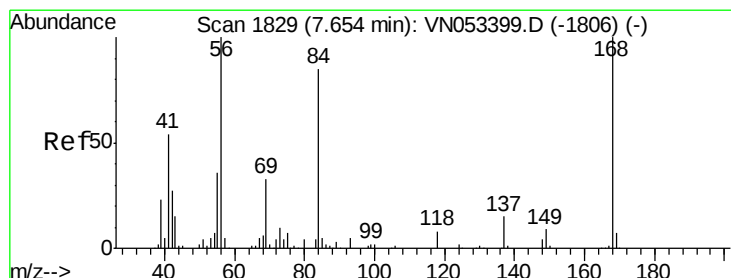
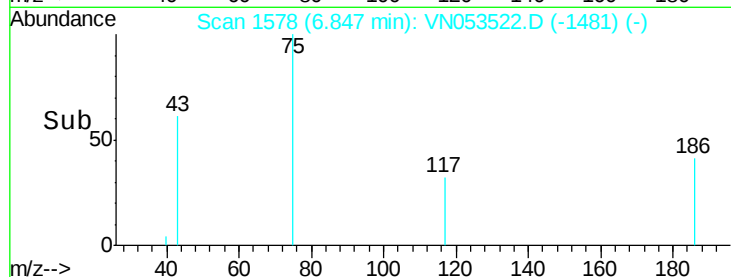
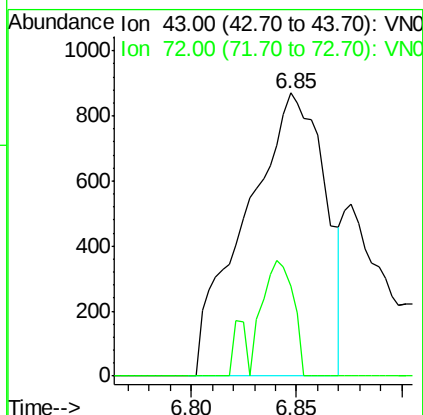
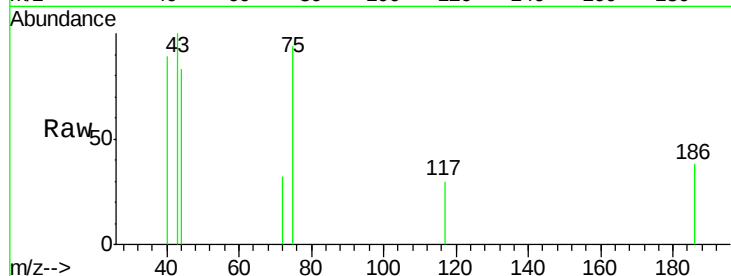




#25
2-Butanone
Concen: 0.778 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN053522.D
Acq: 22 Jan 2019 16:29

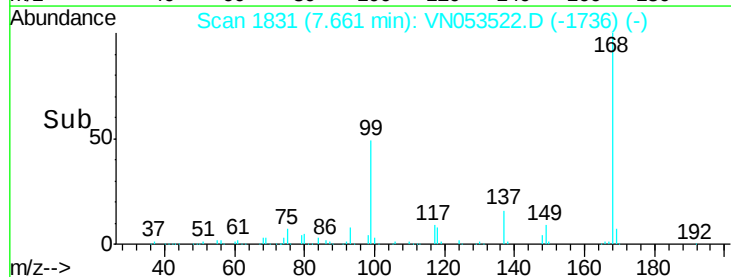
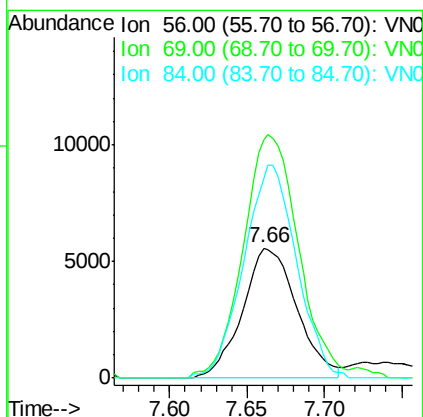
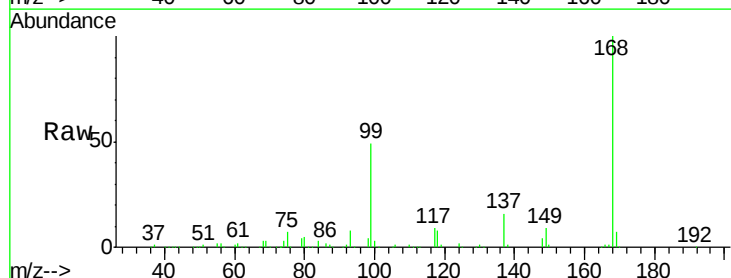
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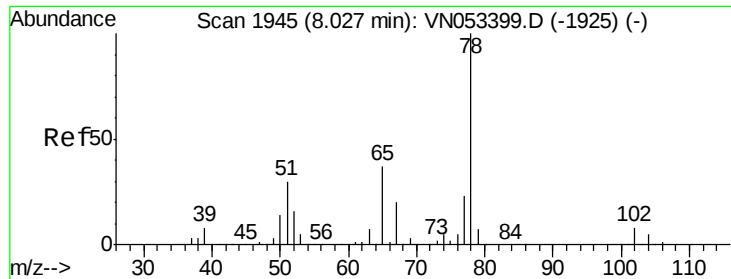
Tot Ion: 43 Resp: 2273
Ion Ratio Lower Upper
43 100
72 31.8 22.0 33.0



#31
Cyclohexane
Concen: 0.741 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN053522.D
Acq: 22 Jan 2019 16:29

Tgt Ion: 56 Resp: 13667
Ion Ratio Lower Upper
56 100
69 184.0 26.4 39.6#
84 153.9 67.9 101.9#

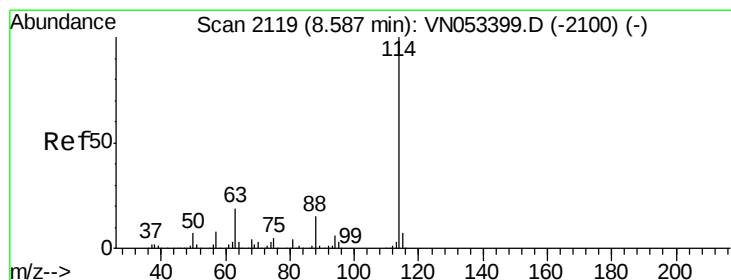
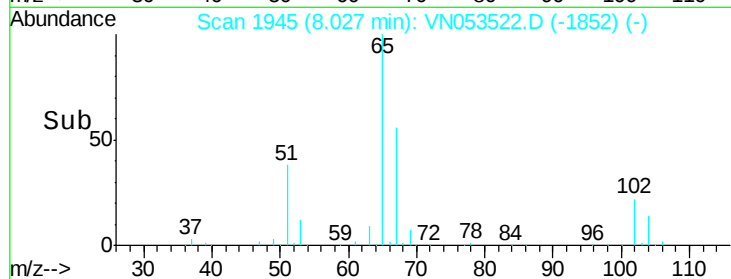
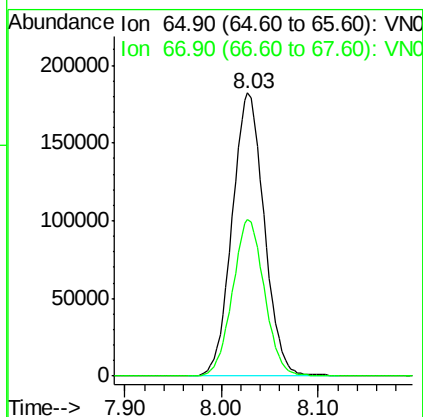
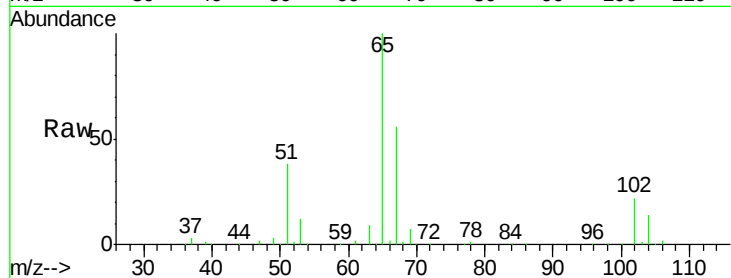




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053522.D
 Acq: 22 Jan 2019 16:29

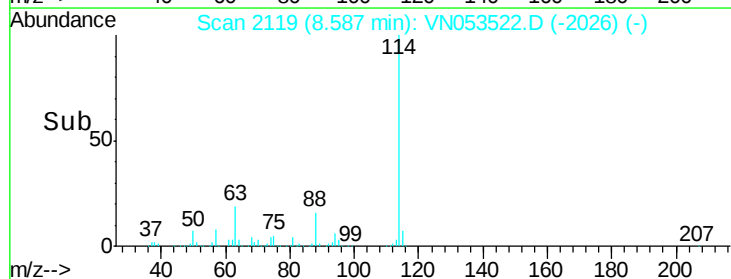
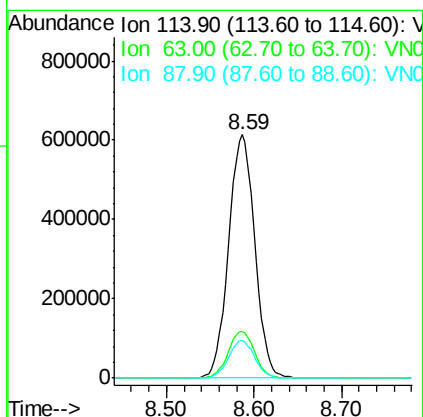
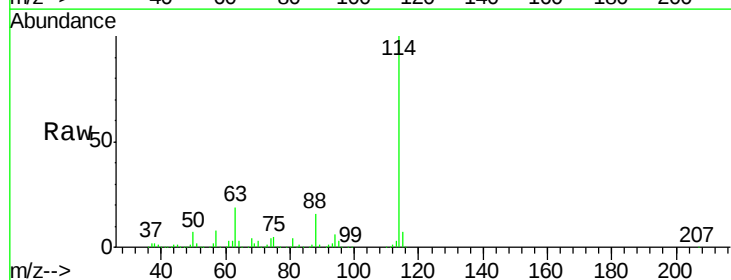
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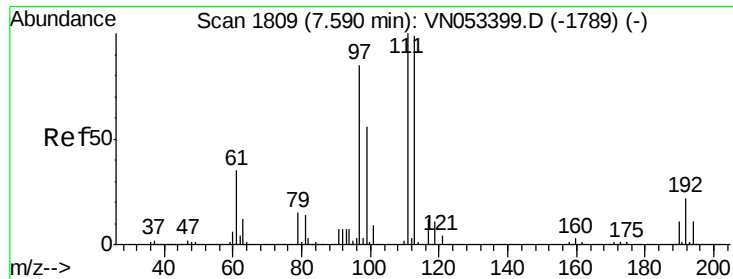
Tot Ion: 65 Resp: 419323
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 111.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053522.D
 Acq: 22 Jan 2019 16:29

Tgt Ion: 114 Resp: 1277165
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 38.6
 88 15.7 0.0 30.4

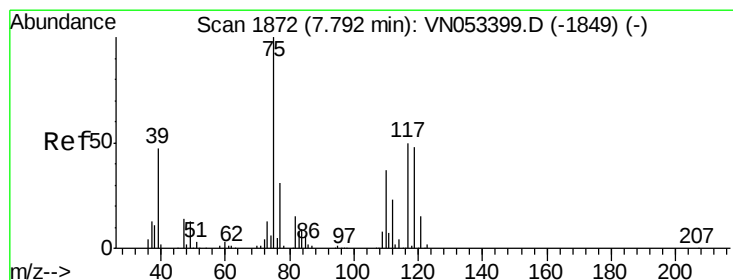
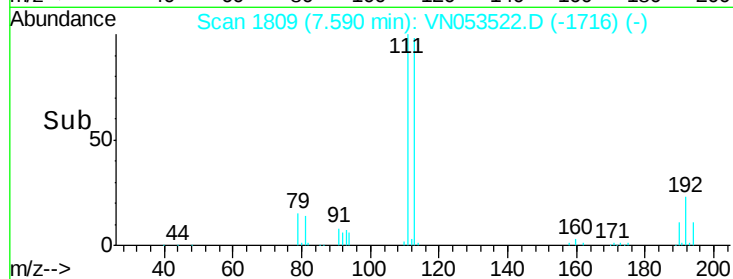
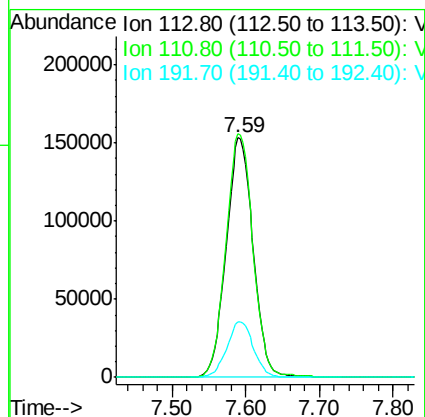
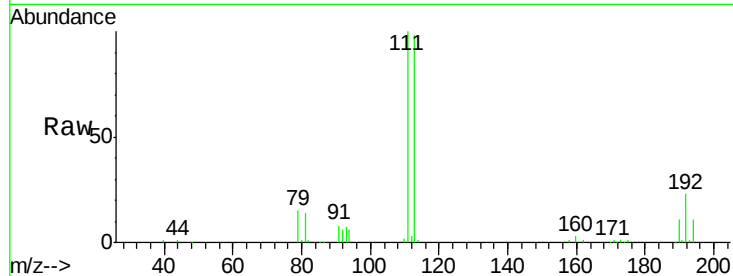




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN053522.D
 Acq: 22 Jan 2019 16:29

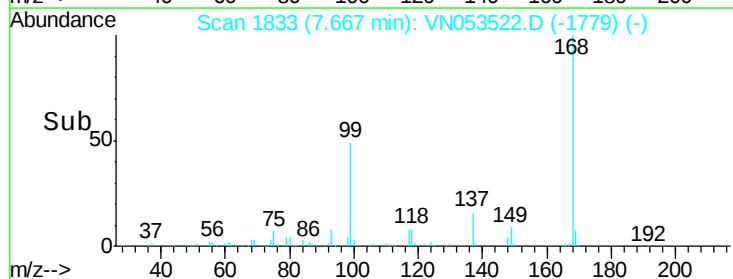
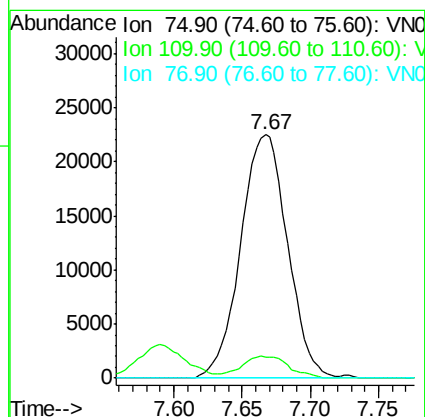
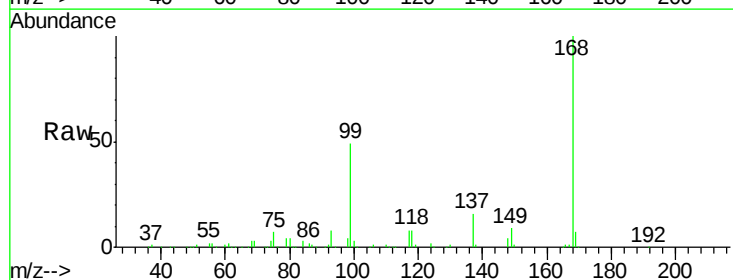
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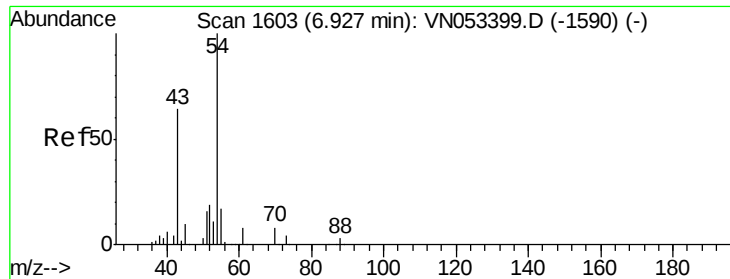
Tot Ion:113 Resp: 388479
 Ion Ratio Lower Upper
 113 100
 111 102.2 81.1 121.7
 192 22.9 18.2 27.2



#36
 1,1-Dichloropropene
 Concen: 4.611 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN053522.D
 Acq: 22 Jan 2019 16:29

Tgt Ion: 75 Resp: 53635
 Ion Ratio Lower Upper
 75 100
 110 9.1 18.1 54.3#
 77 0.0 25.1 37.7#

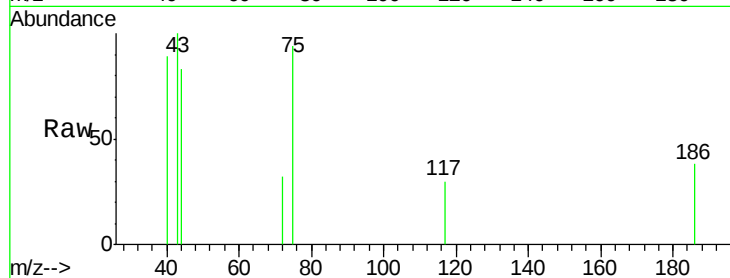




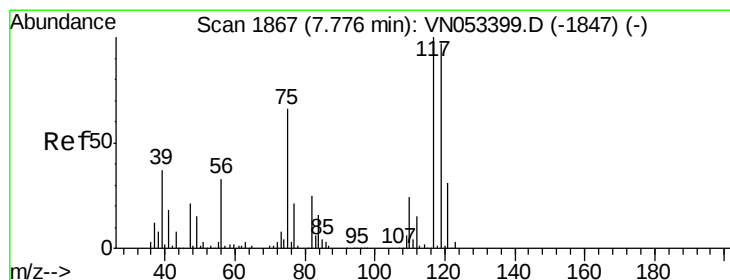
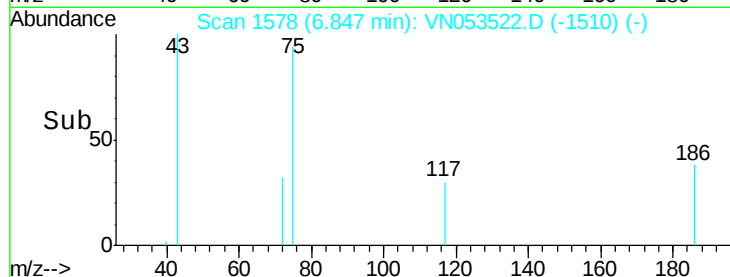
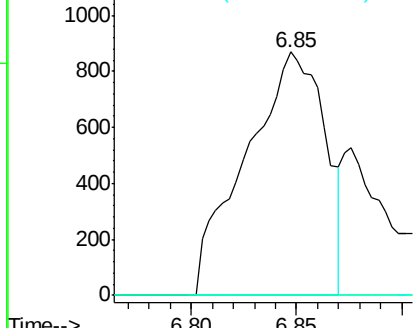
#37
Ethyl Acetate
Concen: 0.340 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. -0.08 min
Lab File: VN053522.D
Acq: 22 Jan 2019 16:29

Instrument :
MSVOA_N
ClientSampleId :
SA-TW530-4246

Tot Ion: 43 Resp: 2273
Ion Ratio Lower Upper
43 100
61 0.0 11.8 17.6#
70 0.0 8.6 12.8#

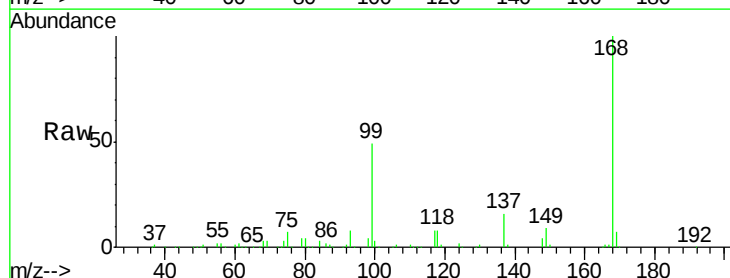


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

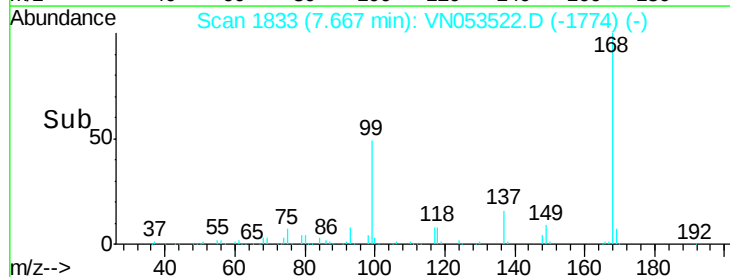
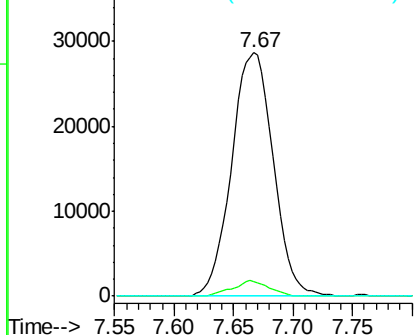


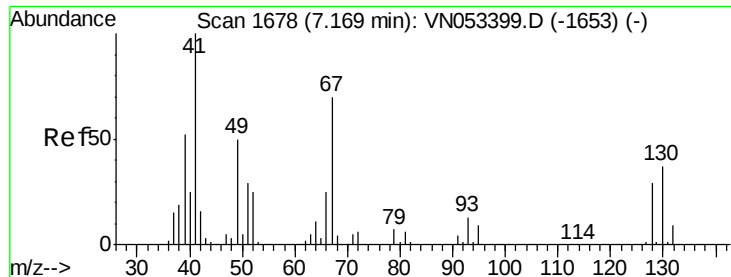
#38
Carbon Tetrachloride
Concen: 6.318 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN053522.D
Acq: 22 Jan 2019 16:29

Tgt Ion: 117 Resp: 69568
Ion Ratio Lower Upper
117 100
119 6.0 77.2 115.8#
121 0.0 24.6 37.0#



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

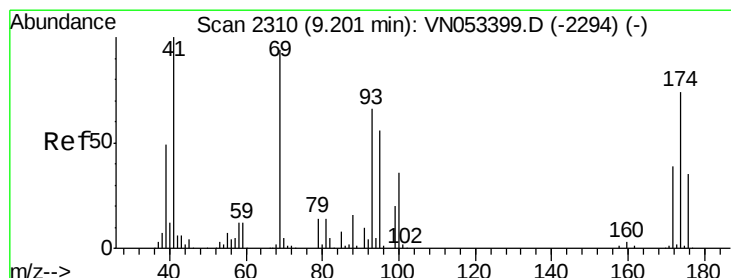
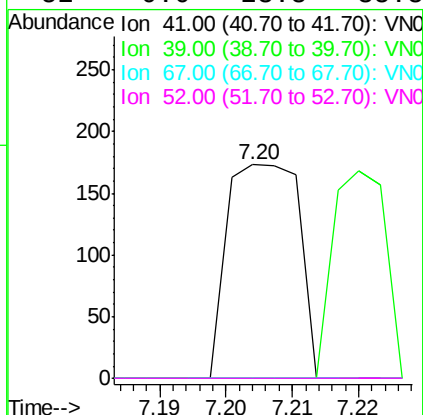
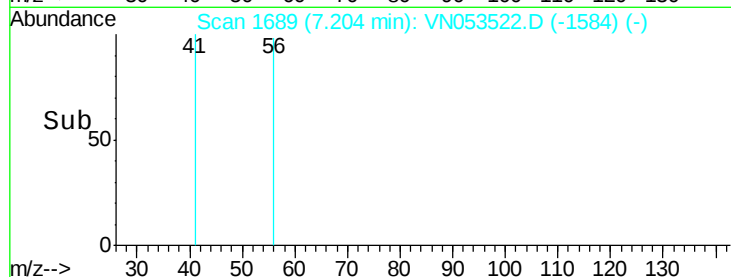
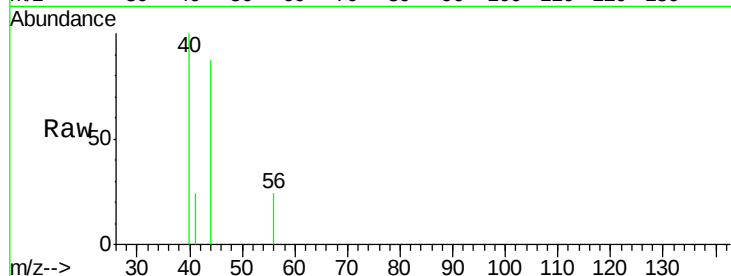




#41
Methacrylonitrile
Concen: 0.700 ug/l
RT: 7.20 min Scan# 1689
Delta R.T. 0.04 min
Lab File: VN053522.D
Acq: 22 Jan 2019 16:29

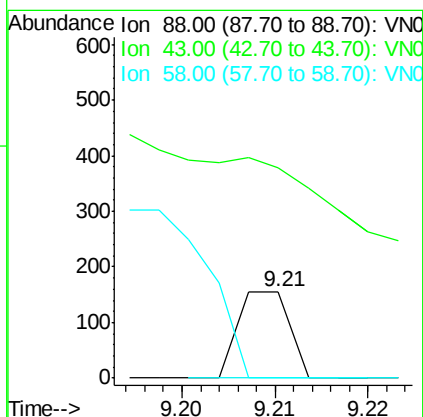
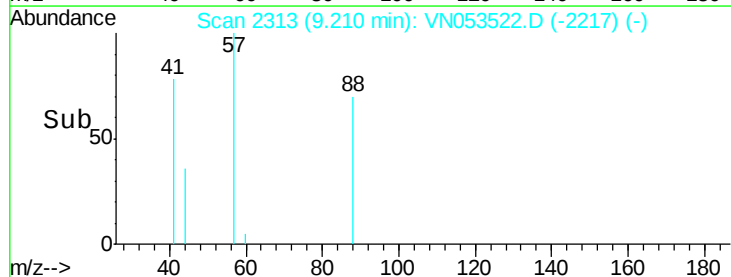
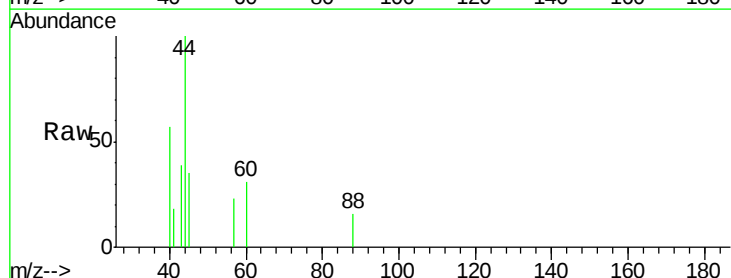
Instrument :
MSVOA_N
ClientSampleId :
SA-TW530-4246

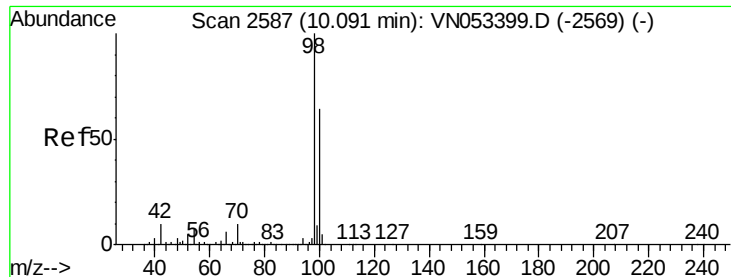
Tot Ion:	41	Resp:	130
Ion	Ratio	Lower	Upper
41	100		
39	70.8	46.8	70.2#
67	0.0	63.0	94.6#
52	0.0	23.8	35.8#



#49
1,4-Dioxane
Concen: 0.989 ug/l
RT: 9.21 min Scan# 2313
Delta R.T. 0.01 min
Lab File: VN053522.D
Acq: 22 Jan 2019 16:29

Tgt Ion:	88	Resp:	60
Ion	Ratio	Lower	Upper
88	100		
43	0.0	27.8	41.6#
58	416.7	56.5	84.7#





#50

Toluene-d8

Concen: 0.989 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053522.D

Acq: 22 Jan 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

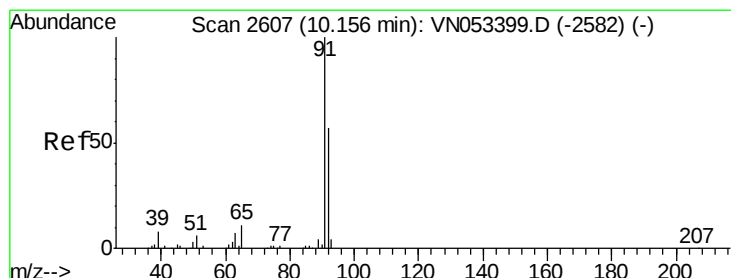
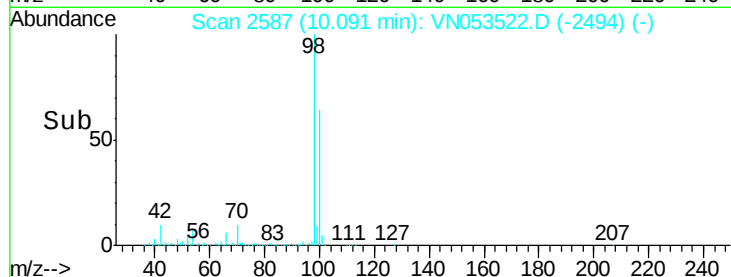
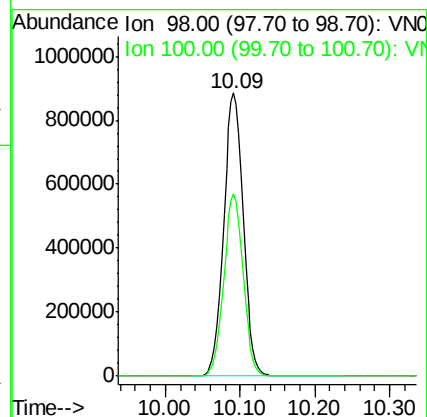
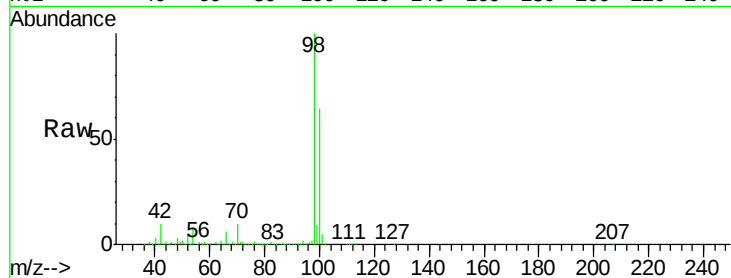
SA-TW530-4246

Tot Ion: 98 Resp: 1599061

Ion Ratio Lower Upper

98 100

100 63.7 51.4 77.0



#52

Toluene

Concen: 2.106 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN053522.D

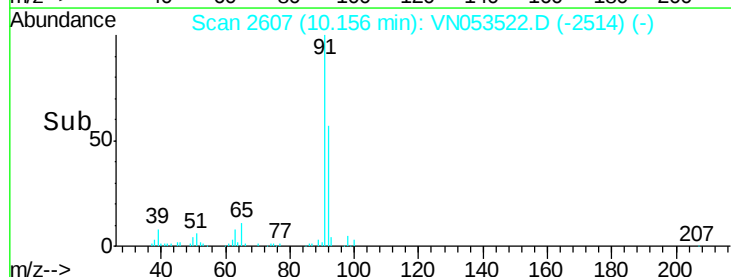
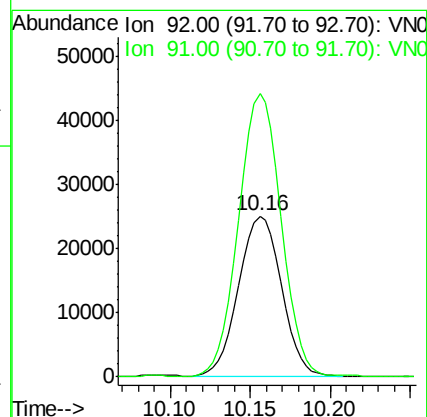
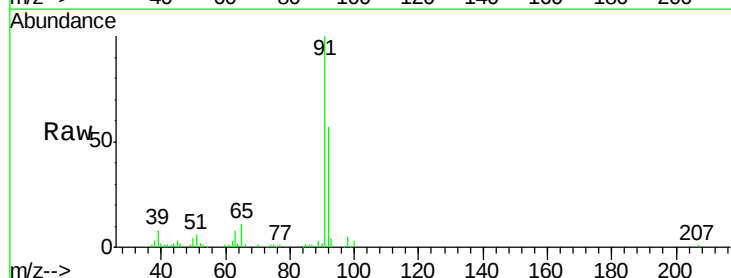
Acq: 22 Jan 2019 16:29

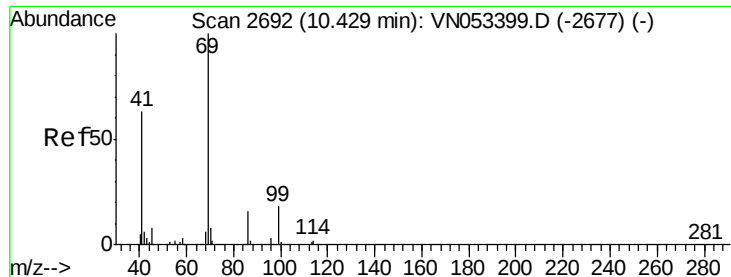
Tgt Ion: 92 Resp: 46215

Ion Ratio Lower Upper

92 100

91 174.3 139.9 209.9





#56

Ethyl methacrylate

Concen: 2.074 ug/l

RT: 10.36 min Scan# 2669

Delta R.T. -0.07 min

Lab File: VN053522.D

Acq: 22 Jan 2019 16:29

Instrument :

MSVOA_N

ClientSampled :

SA-TW530-4246

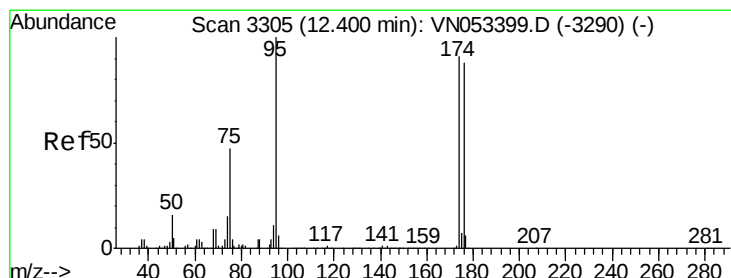
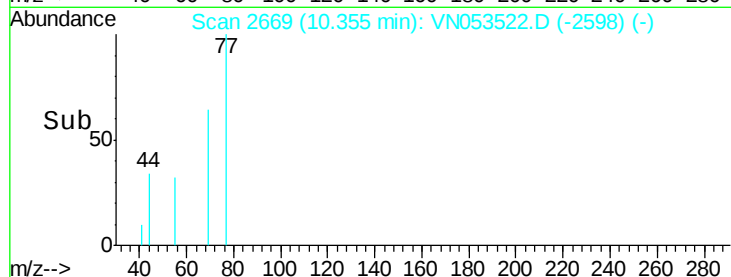
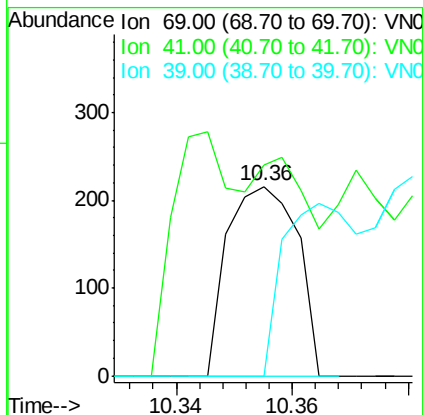
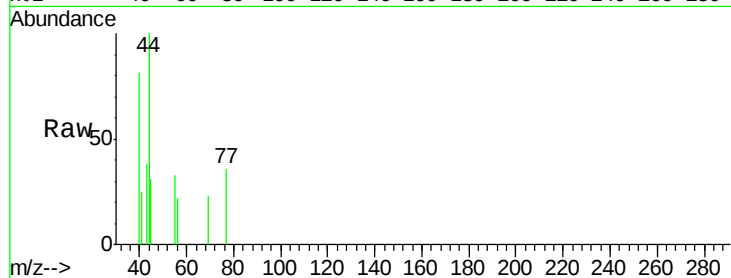
Tot Ion: 69 Resp: 180

Ion Ratio Lower Upper

69 100

41 123.9 49.4 74.0#

39 94.4 23.3 34.9#



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN053522.D

Acq: 22 Jan 2019 16:29

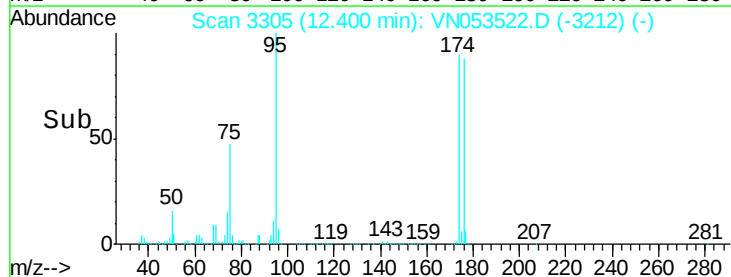
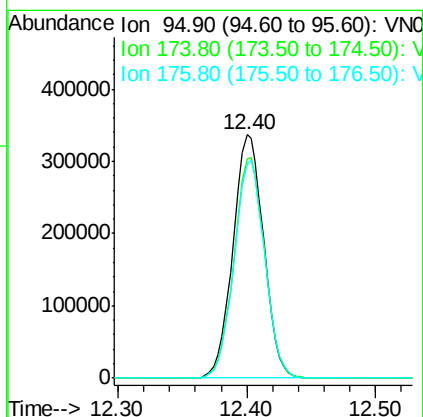
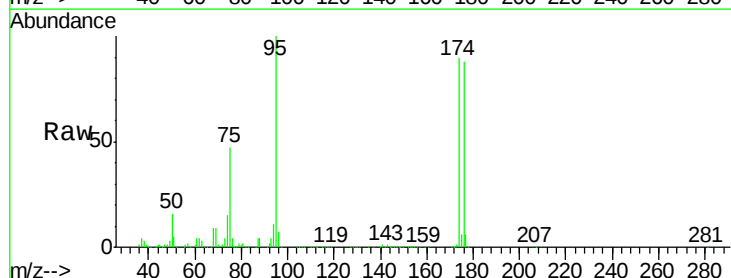
Tgt Ion: 95 Resp: 556963

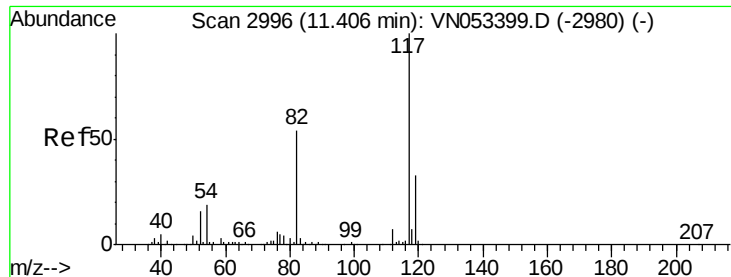
Ion Ratio Lower Upper

95 100

174 90.6 0.0 183.2

176 88.8 0.0 177.4

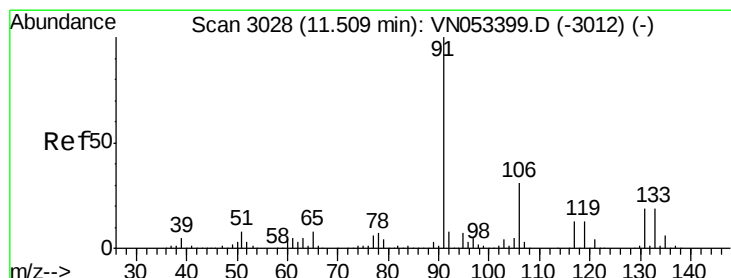
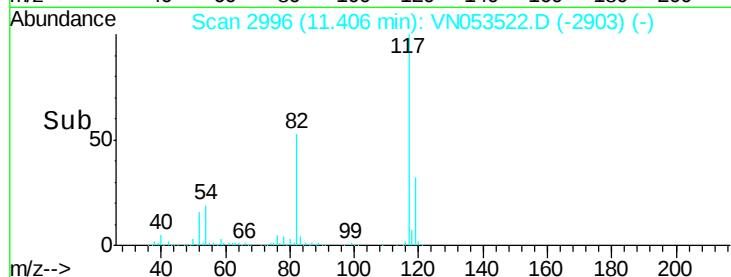
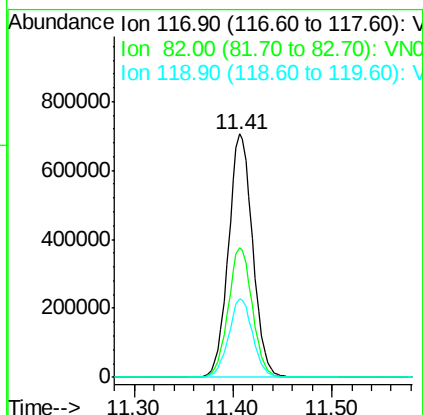
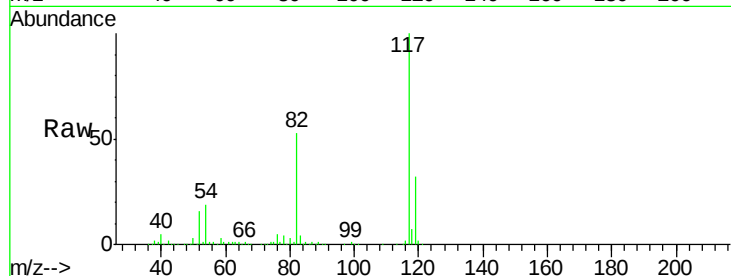




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053522.D
Acq: 22 Jan 2019 16:29

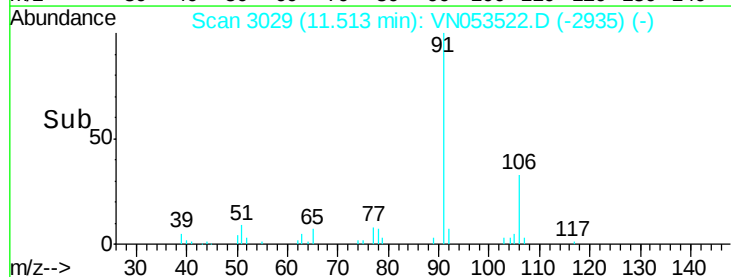
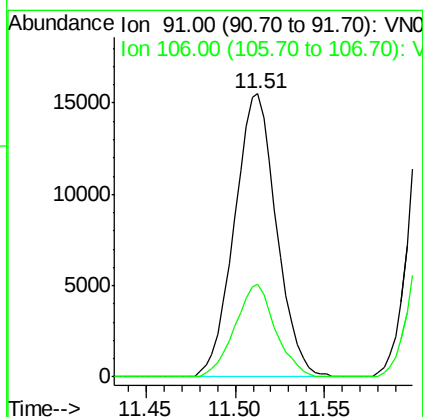
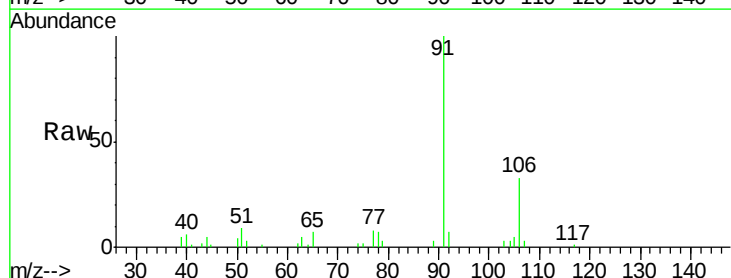
Instrument :
MSVOA_N
ClientSampleId :
SA-TW530-4246

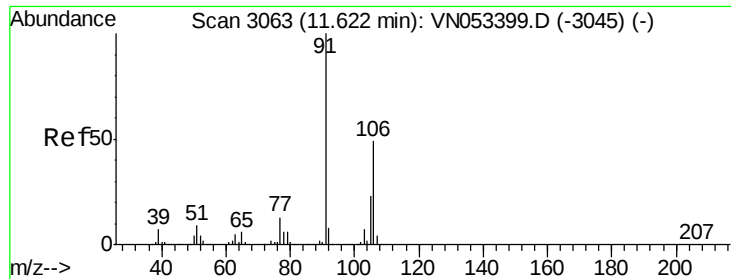
Tot Ion:117 Resp: 1208856
Ion Ratio Lower Upper
117 100
82 53.3 42.9 64.3
119 32.4 26.0 39.0



#67
Ethyl Benzene
Concen: 0.585 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN053522.D
Acq: 22 Jan 2019 16:29

Tgt Ion: 91 Resp: 25529
Ion Ratio Lower Upper
91 100
106 32.7 25.0 37.6

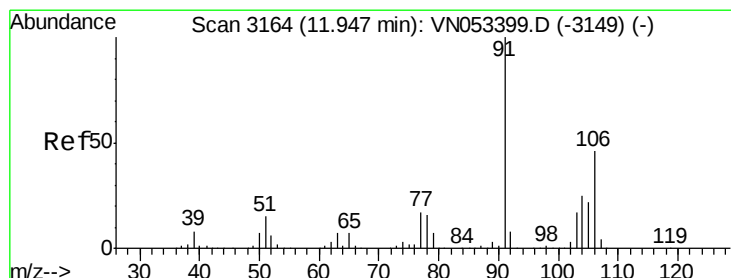
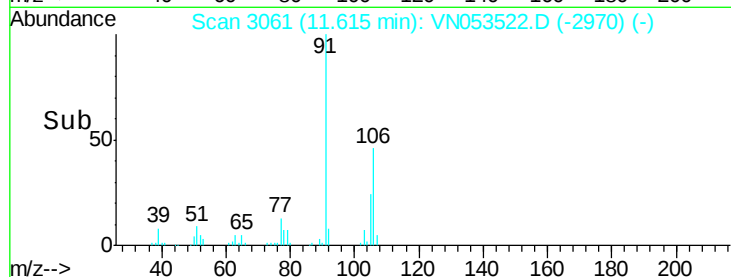
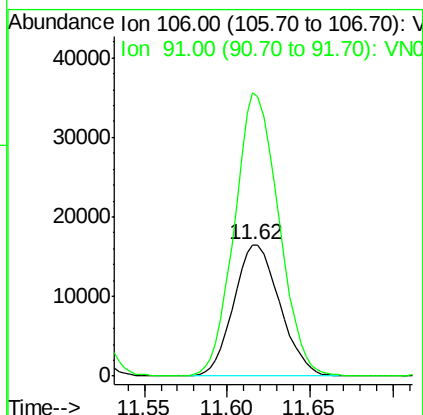
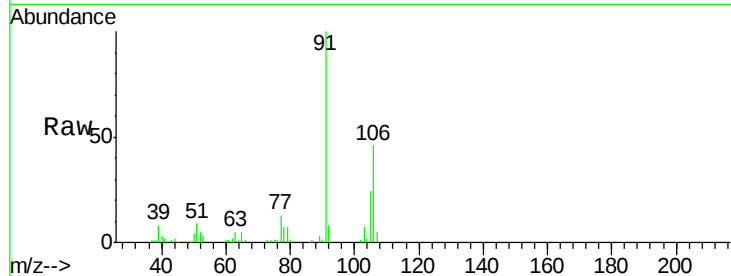




#68
m/p-Xylenes
Concen: 1.944 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. -0.01 min
Lab File: VN053522.D
Acq: 22 Jan 2019 16:29

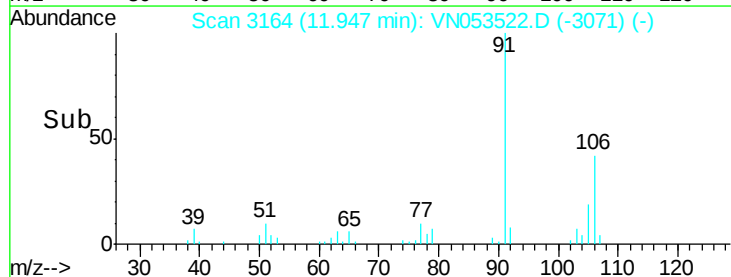
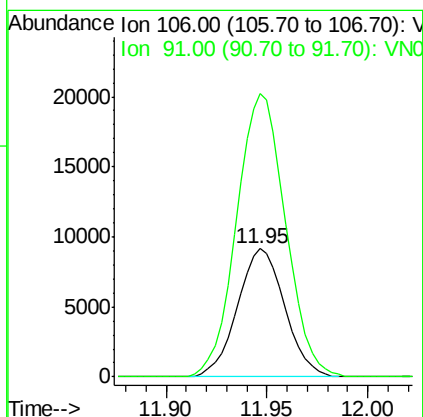
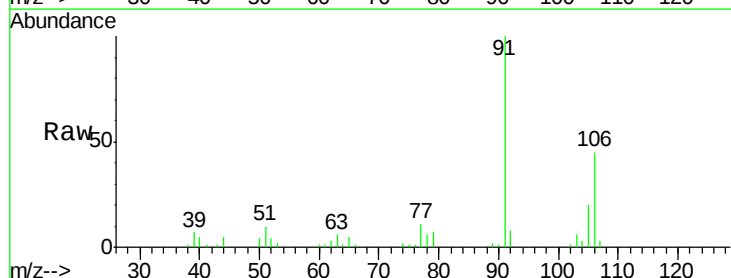
Instrument :
MSVOA_N
ClientSampleId :
SA-TW530-4246

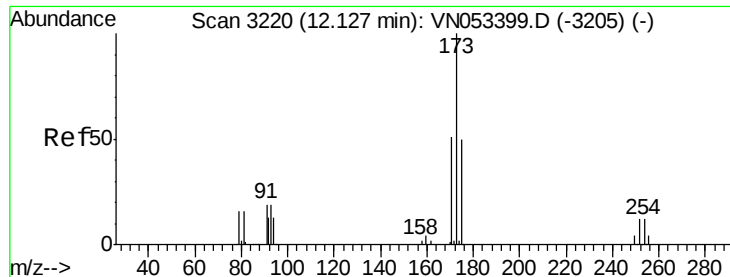
Tot Ion:106 Resp: 32001
Ion Ratio Lower Upper
106 100
91 206.7 161.4 242.2



#69
o-Xylene
Concen: 0.937 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN053522.D
Acq: 22 Jan 2019 16:29

Tgt Ion:106 Resp: 14994
Ion Ratio Lower Upper
106 100
91 228.5 106.9 320.8

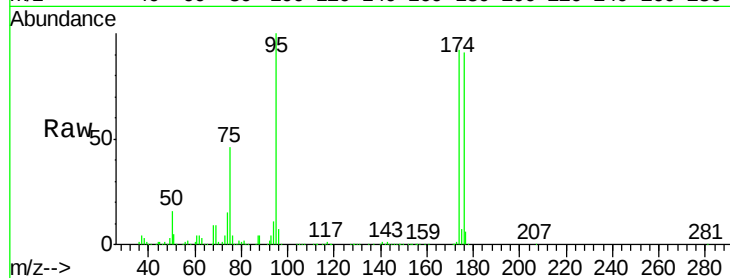




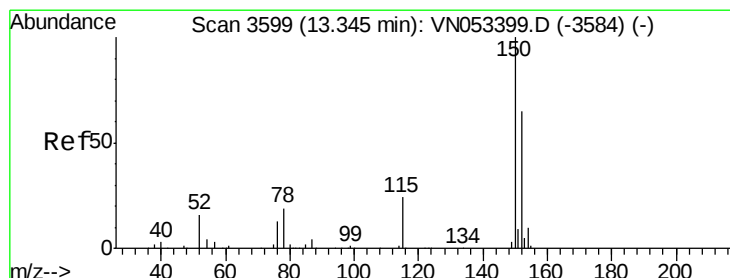
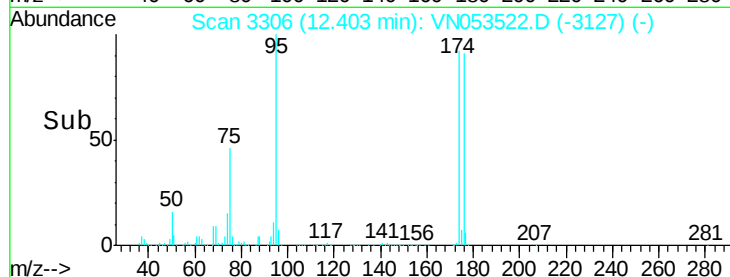
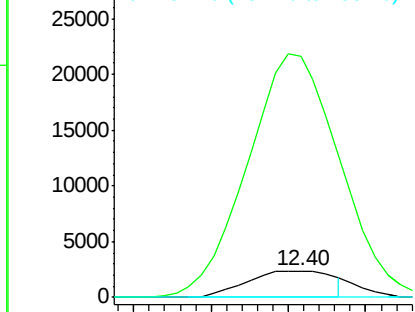
#71
Bromoform
Concen: 0.593 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053522.D
Acq: 22 Jan 2019 16:29

Instrument :
MSVOA_N
ClientSampleId :
SA-TW530-4246

Tot Ion:173 Resp: 3632
Ion Ratio Lower Upper
173 100
175 876.5 24.6 74.0#
254 0.0 0.2 0.2#

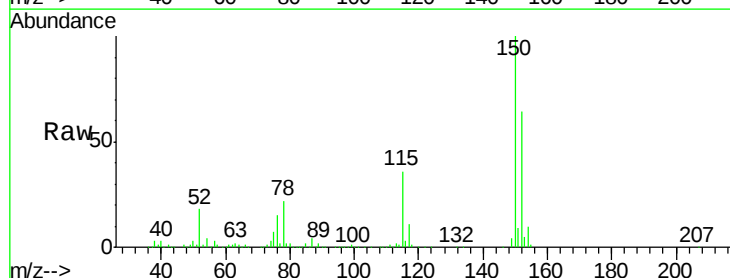


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

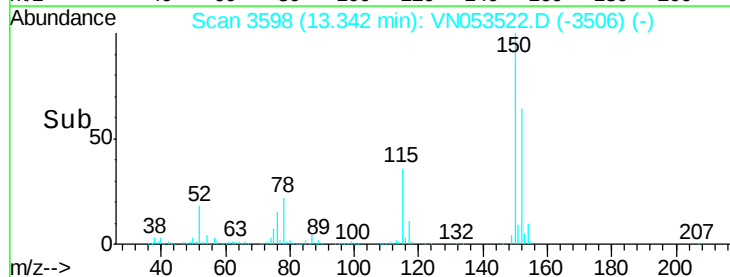
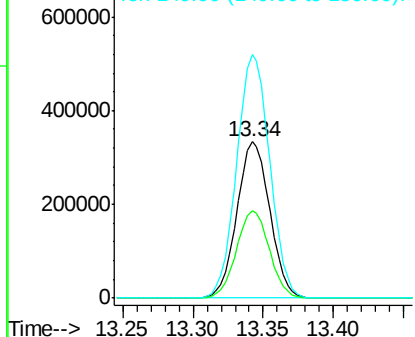


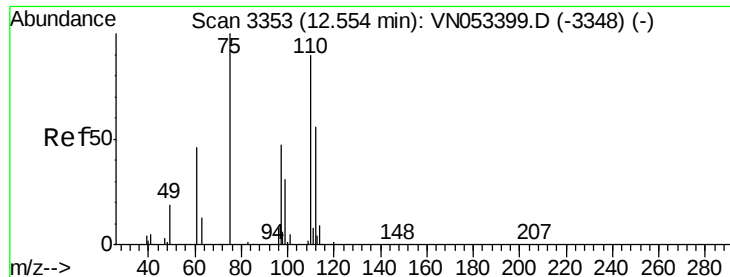
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN053522.D
Acq: 22 Jan 2019 16:29

Tgt Ion:152 Resp: 546045
Ion Ratio Lower Upper
152 100
115 55.8 27.8 83.4
150 156.5 0.0 349.0



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





#76

1,2,3-Trichloropropane

Concen: 35.984 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053522.D

Acq: 22 Jan 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

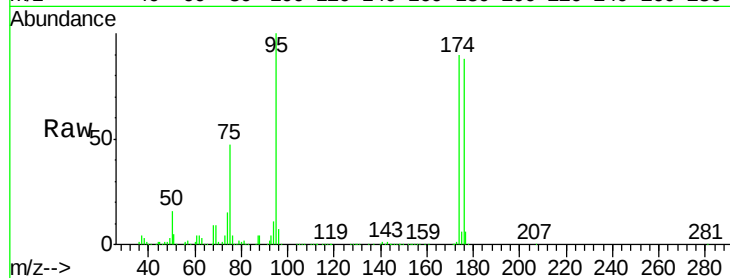
SA-TW530-4246

Tot Ion: 75 Resp: 258934

Ion Ratio Lower Upper

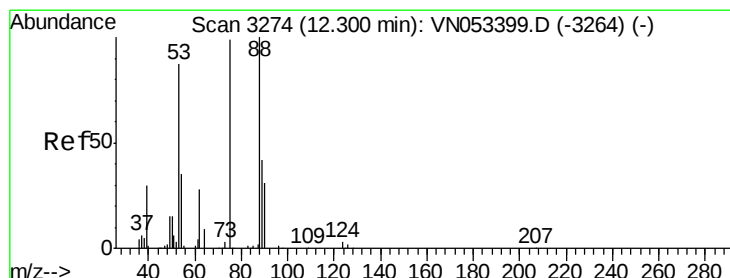
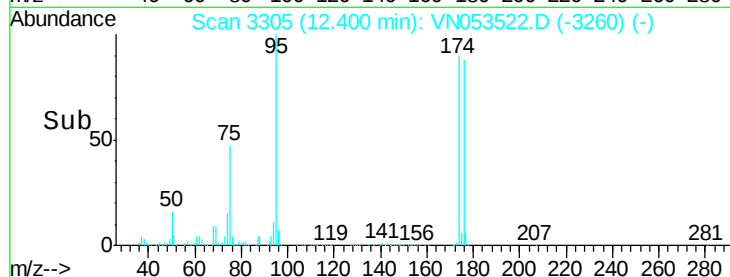
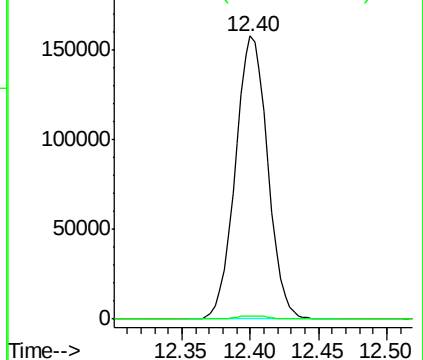
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 88.986 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053522.D

Acq: 22 Jan 2019 16:29

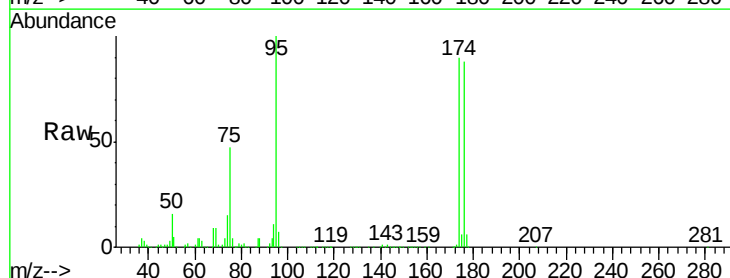
Tgt Ion: 75 Resp: 258934

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

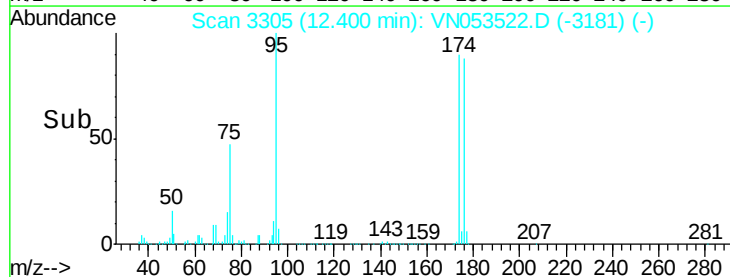
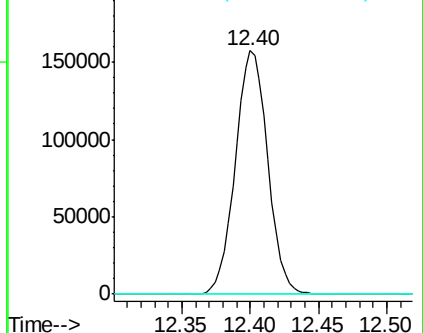
89 0.0 35.6 53.4#

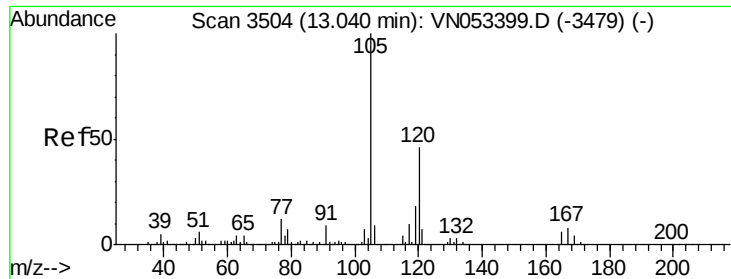


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

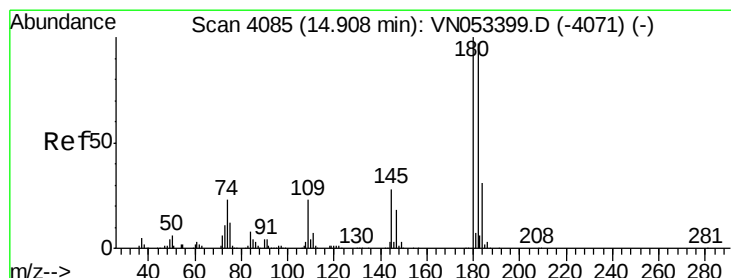
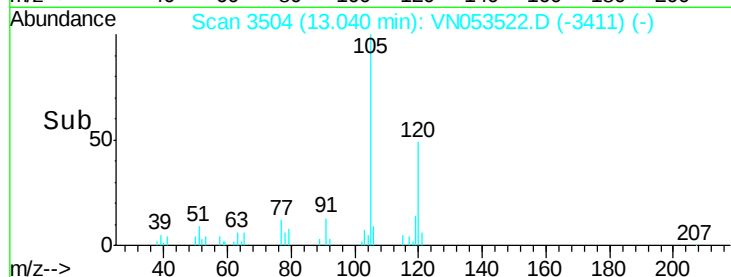
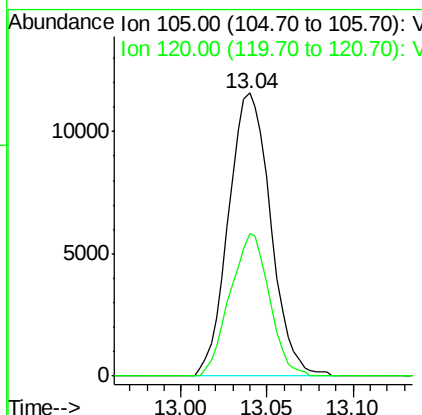
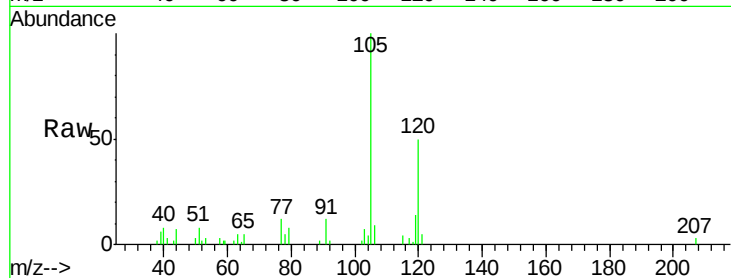




#84
 1,2,4-Trimethylbenzene
 Concen: 0.601 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN053522.D
 Acq: 22 Jan 2019 16:29

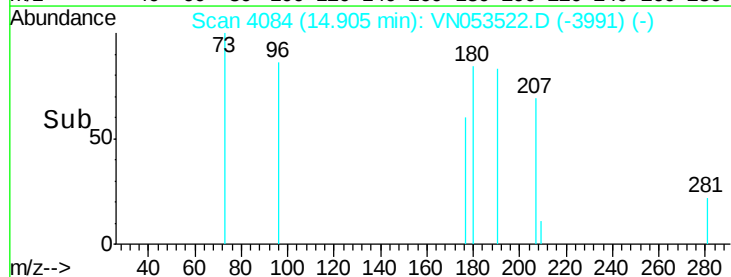
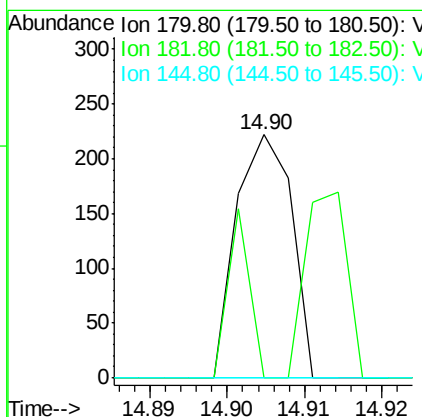
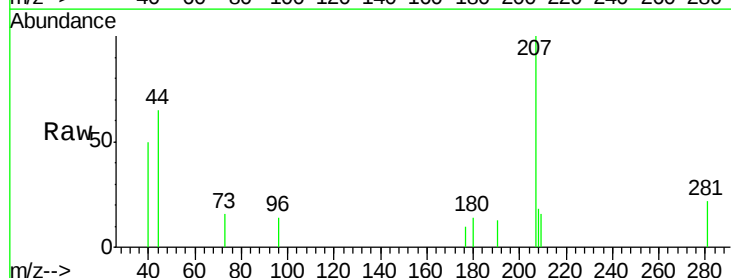
Instrument :
 MSVOA_N
 ClientSampled :
 SA-TW530-4246

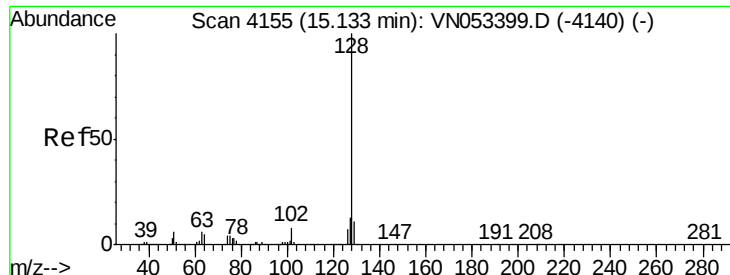
Tot Ion:105 Resp: 19704
 Ion Ratio Lower Upper
 105 100
 120 47.0 23.0 69.0



#93
 1,2,4-Trichlorobenzene
 Concen: 2.780 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. -0.00 min
 Lab File: VN053522.D
 Acq: 22 Jan 2019 16:29

Tgt Ion:180 Resp: 110
 Ion Ratio Lower Upper
 180 100
 182 27.3 48.1 144.3#
 145 0.0 13.9 41.6#





#95

Naphthalene

Concen: 4.048 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN053522.D

Acq: 22 Jan 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

SA-TW530-4246

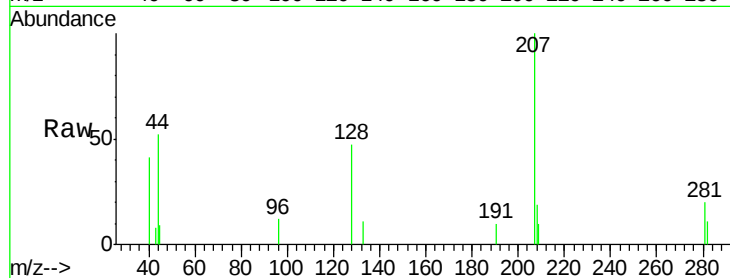
Tot Ion:128 Resp: 1558

Ion Ratio Lower Upper

128 100

127 3.9 10.3 15.5#

129 0.0 8.6 13.0#



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

