

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032419\
 Data File : VN054648.D
 Acq On : 24 Mar 2019 15:15
 Operator : JC/SP
 Sample : K2047-10
 Misc : 6.37g/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 25 06:13:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	569065	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	875276	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	769159	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	339595	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	344222	48.63	ug/l	0.00
Spiked Amount			Recovery	=	97.26%	
35) Dibromofluoromethane	7.59	113	260694	46.23	ug/l	0.00
Spiked Amount			Recovery	=	92.46%	
50) Toluene-d8	10.09	98	1068840	50.42	ug/l	0.00
Spiked Amount			Recovery	=	100.84%	
62) 4-Bromofluorobenzene	12.40	95	351513	48.73	ug/l	0.00
Spiked Amount			Recovery	=	97.46%	

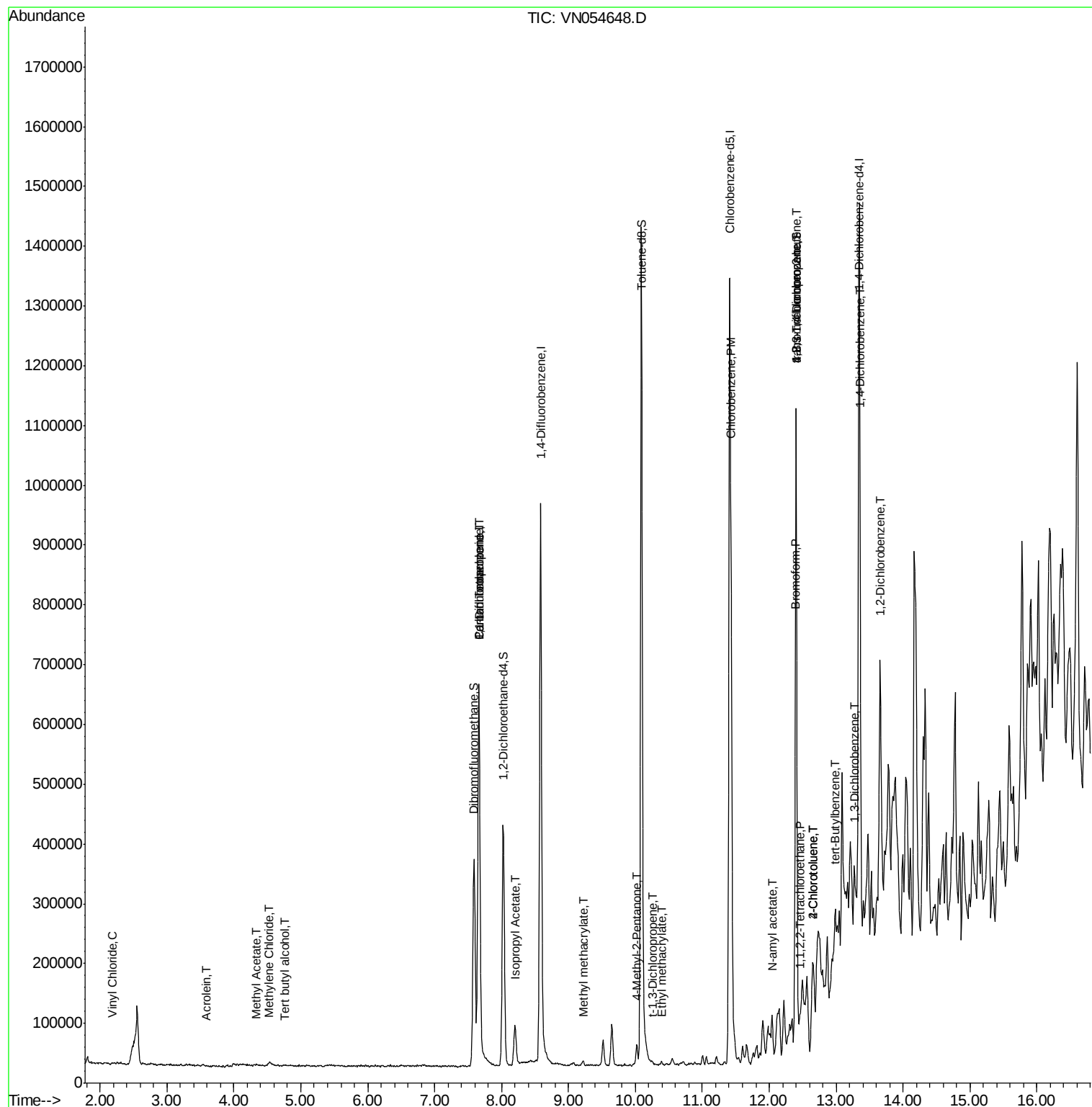
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	2.19	62	1648	0.222	ug/l	92
11) Tert butyl alcohol	4.76	59	632	1.475	ug/l #	70
13) Acrolein	3.59	56	191	0.323	ug/l #	71
18) Methyl Acetate	4.34	43	3057	0.644	ug/l #	86
20) Methylene Chloride	4.53	84	3668	0.585	ug/l #	88
31) Cyclohexane	7.66	56	11867	Below Cal	#	16
36) 1,1-Dichloropropene	7.66	75	41979	5.129	ug/l #	48
38) Carbon Tetrachloride	7.66	117	51660	6.496	ug/l #	16
43) Isopropyl Acetate	8.20	43	17276	1.757	ug/l #	60
48) Methyl methacrylate	9.22	41	2434	0.456	ug/l #	41
51) 4-Methyl-2-Pentanone	10.02	43	3998	0.734	ug/l	90
53) t-1,3-Dichloropropene	10.26	75	29	2.235	ug/l #	42
56) Ethyl methacrylate	10.39	69	1935	0.279	ug/l #	85
65) Chlorobenzene	11.43	112	337879	21.598	ug/l	100
71) Bromoform	12.38	173	133	2.253	ug/l #	28
74) N-amyl acetate	12.04	43	18308	2.327	ug/l #	45
75) 1,1,2,2-Tetrachloroethane	12.46	83	4757	0.762	ug/l #	32
76) 1,2,3-Trichloropropane	12.40	75	182660	33.896	ug/l #	100
79) 2-Chlorotoluene	12.67	91	4043	0.218	ug/l	71
81) trans-1,4-Dichloro-2-buten	12.40	75	182660	112.610	ug/l #	12
82) 4-Chlorotoluene	12.67	91	4043	0.225	ug/l	73
83) tert-Butylbenzene	12.99	119	6848	0.351	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	19335	1.719	ug/l #	15
88) 1,4-Dichlorobenzene	13.36	146	34847	3.184	ug/l #	46
91) 1,2-Dichlorobenzene	13.65	146	33686	3.092	ug/l #	68

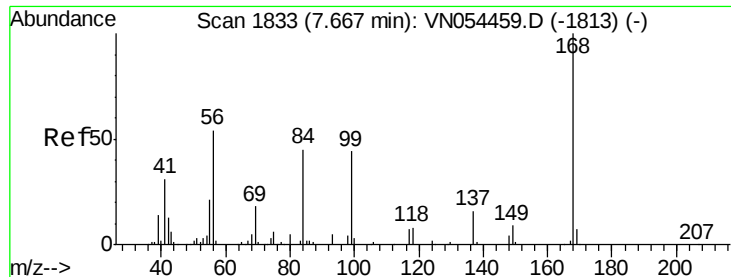
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Mar 22 02:09:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.01 min

Lab File: VN054648.D

Acq: 24 Mar 2019 15:15

Instrument :

MSVOA_N

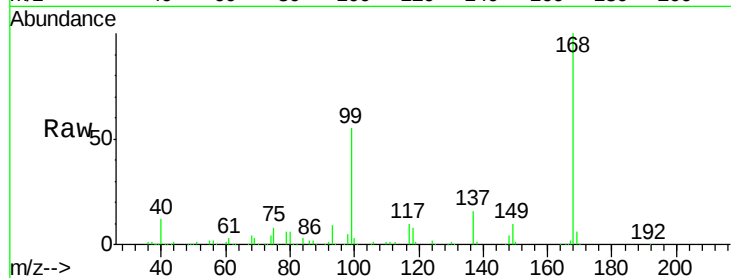
ClientSampled :

Tot Ion:168 Resp: 569065

Ion Ratio Lower Upper

168 100

99 54.7 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

250000

200000

150000

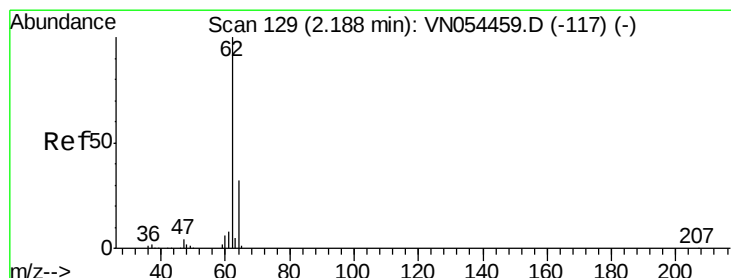
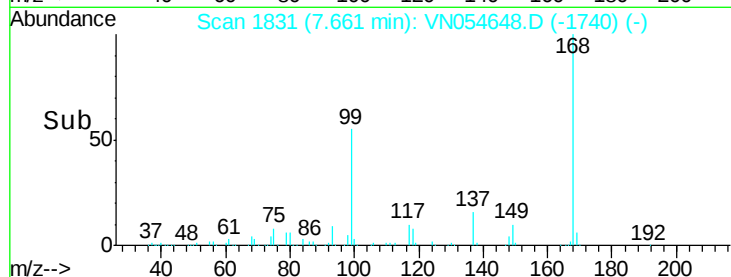
100000

50000

0

Time-->

7.50 7.60 7.70 7.80 7.90



#4

Vinyl Chloride

Concen: 0.222 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN054648.D

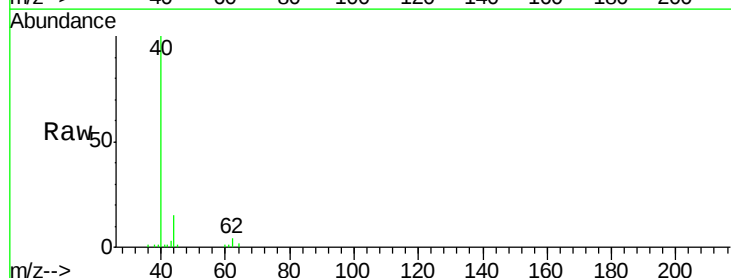
Acq: 24 Mar 2019 15:15

Tgt Ion: 62 Resp: 1648

Ion Ratio Lower Upper

62 100

64 36.4 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

2.19

1200

1000

800

600

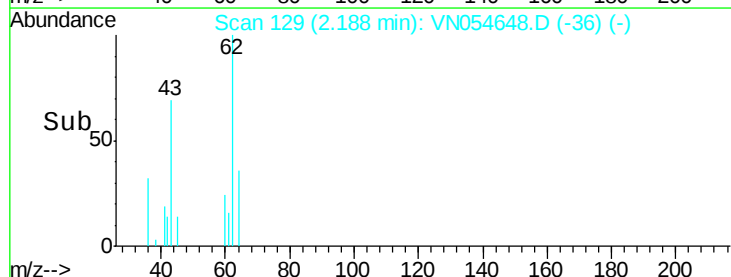
400

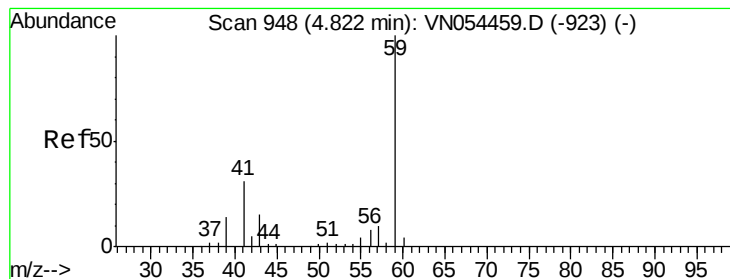
200

0

Time-->

2.15 2.20



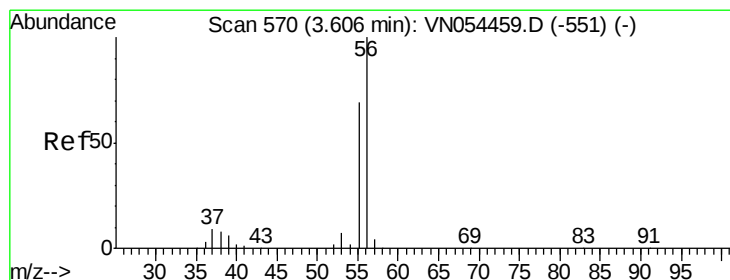
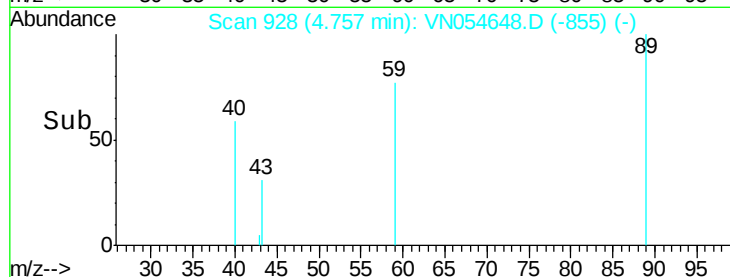
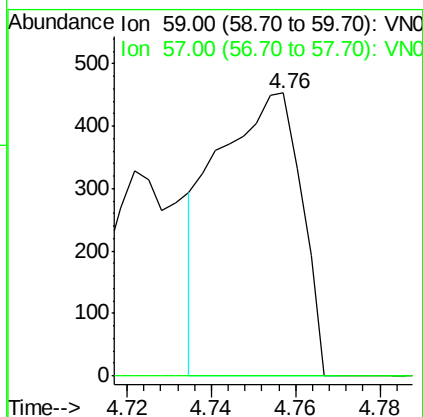
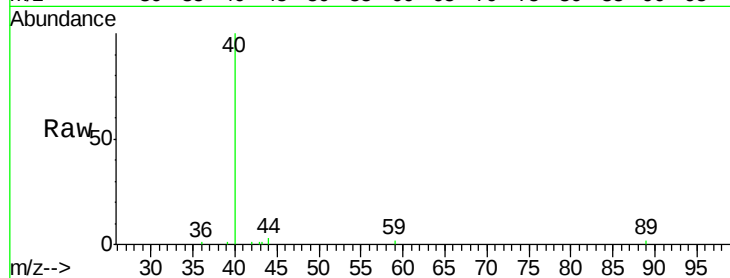


#11

Tert butyl alcohol
 Concen: 1.475 ug/l
 RT: 4.76 min Scan# 928
 Delta R.T. -0.06 min
 Lab File: VN054648.D
 Acq: 24 Mar 2019 15:15

Instrument :
 MSVOA_N
 ClientSampled :

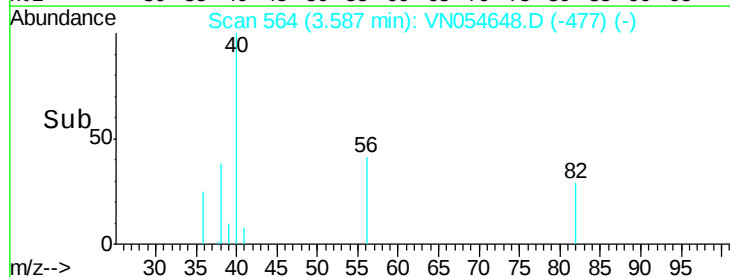
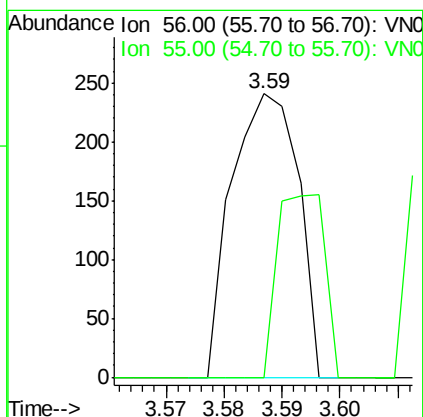
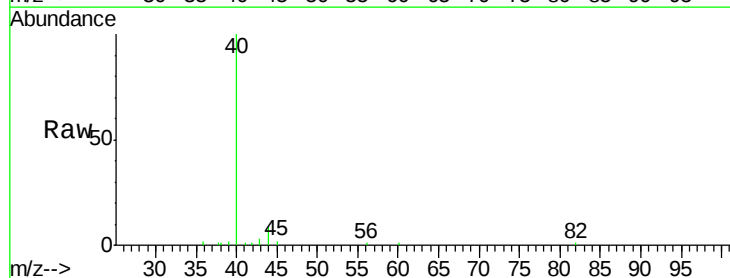
Tot Ion: 59 Resp: 632
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.0 13.6#

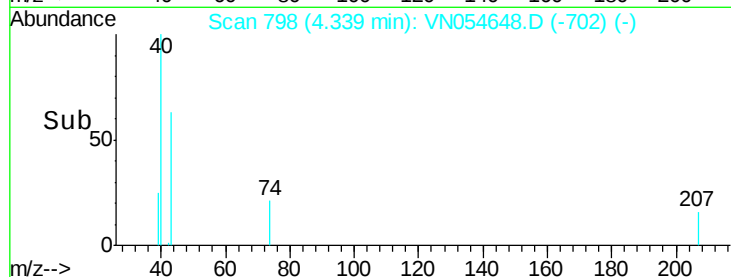
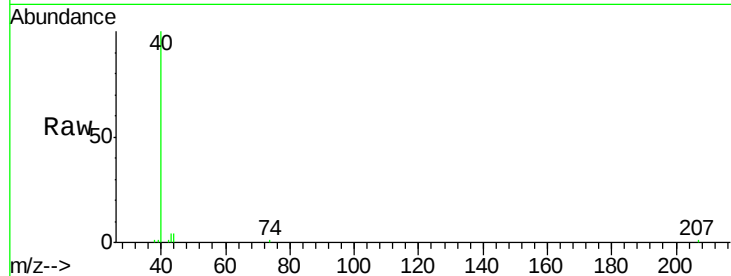
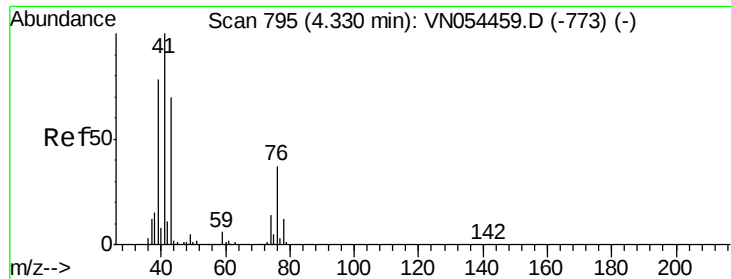


#13

Acrolein
 Concen: 0.323 ug/l
 RT: 3.59 min Scan# 564
 Delta R.T. -0.02 min
 Lab File: VN054648.D
 Acq: 24 Mar 2019 15:15

Tgt Ion: 56 Resp: 191
 Ion Ratio Lower Upper
 56 100
 55 46.6 56.7 85.1#

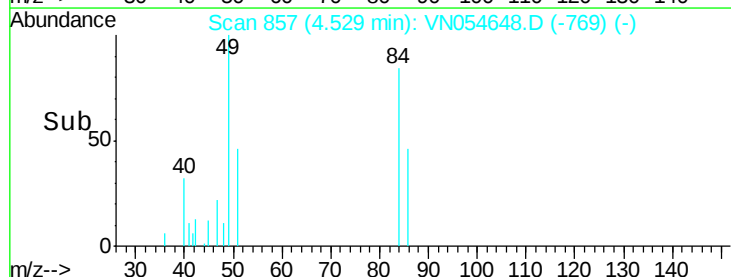
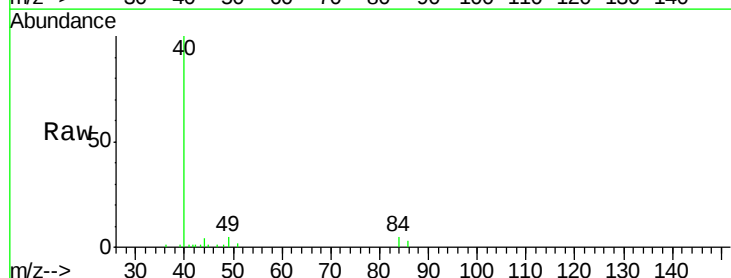
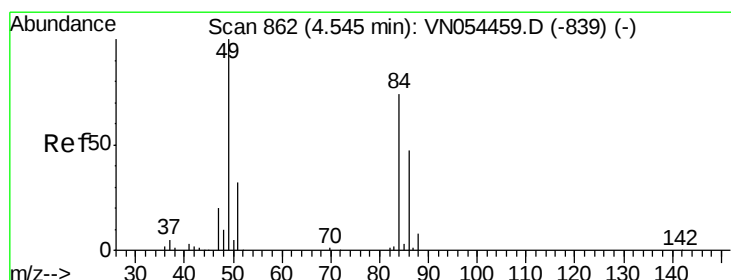
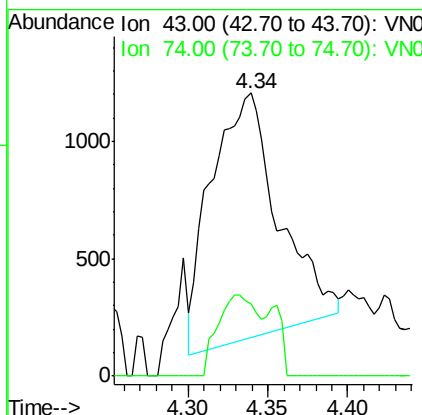




#18
Methyl Acetate
Concen: 0.644 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN054648.D
Acq: 24 Mar 2019 15:15

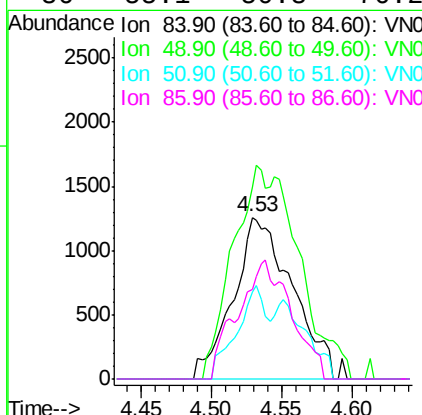
Instrument :
MSVOA_N
ClientSampled :

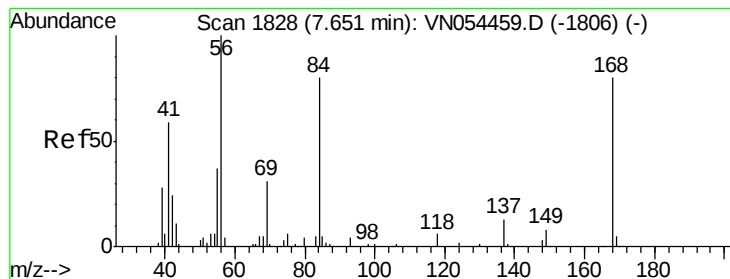
Tot Ion: 43 Resp: 3057
Ion Ratio Lower Upper
43 100
74 18.9 20.8 31.2#



#20
Methylene Chloride
Concen: 0.585 ug/l
RT: 4.53 min Scan# 857
Delta R.T. -0.02 min
Lab File: VN054648.D
Acq: 24 Mar 2019 15:15

Tgt Ion: 84 Resp: 3668
Ion Ratio Lower Upper
84 100
49 118.6 89.7 134.5
51 54.1 28.2 42.4#
86 55.1 50.8 76.2





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN054648.D

Acq: 24 Mar 2019 15:15

Instrument :
MSVOA_N
ClientSampleId :

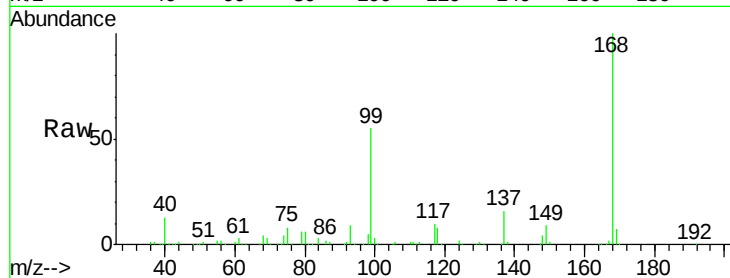
Tot Ion: 56 Resp: 11867

Ion Ratio Lower Upper

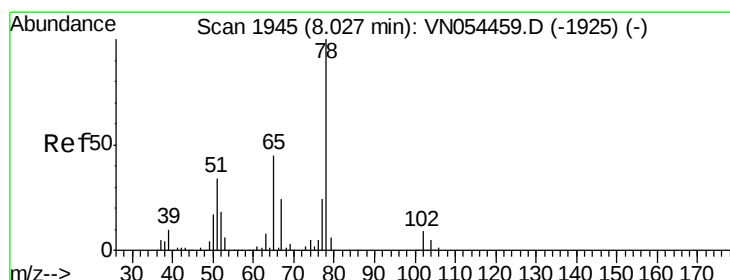
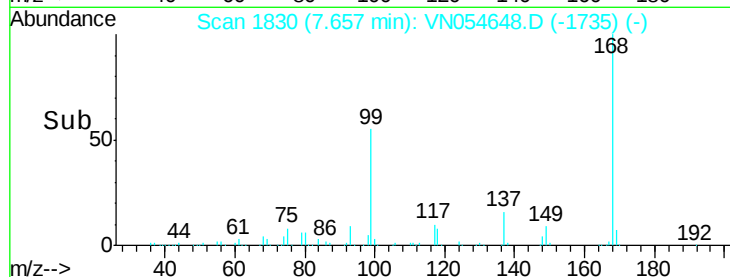
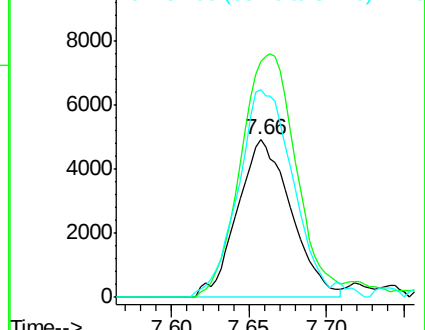
56 100

69 150.4 27.8 41.6#

84 132.0 74.6 111.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 48.631 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN054648.D

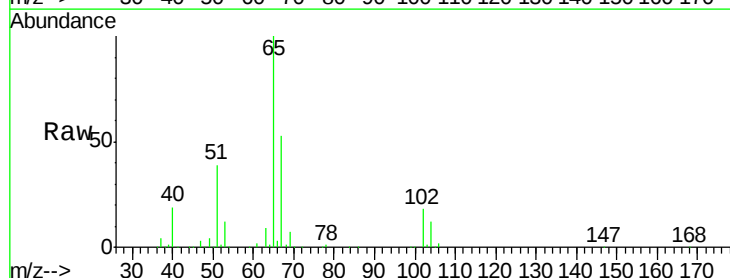
Acq: 24 Mar 2019 15:15

Tgt Ion: 65 Resp: 344222

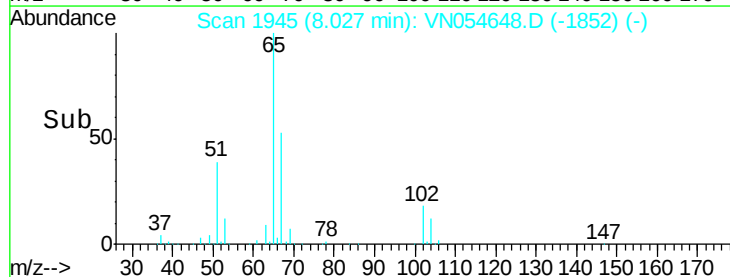
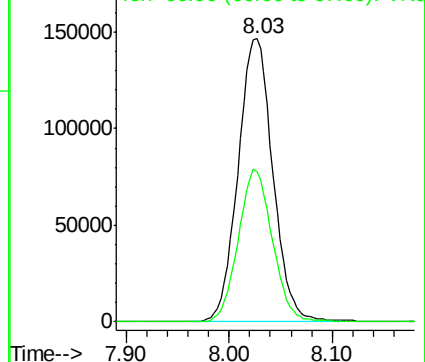
Ion Ratio Lower Upper

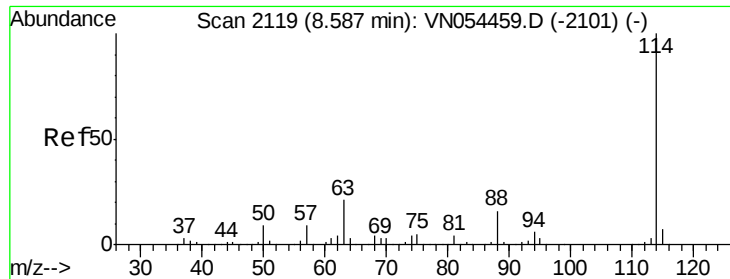
65 100

67 53.0 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN054648.D

Acq: 24 Mar 2019 15:15

Instrument :

MSVOA_N

ClientSampled :

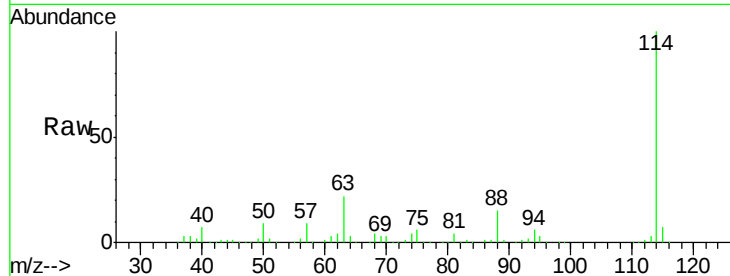
Tot Ion:114 Resp: 875276

Ion Ratio Lower Upper

114 100

63 22.1 0.0 35.2

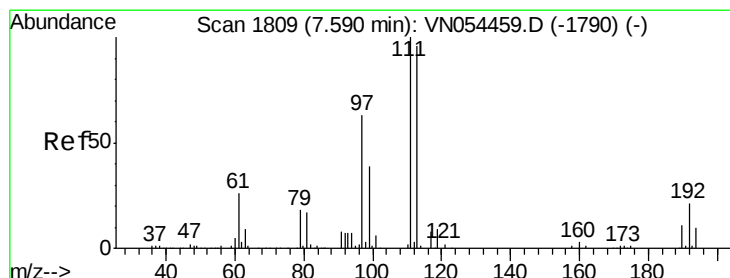
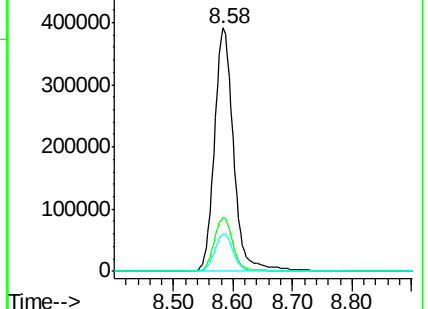
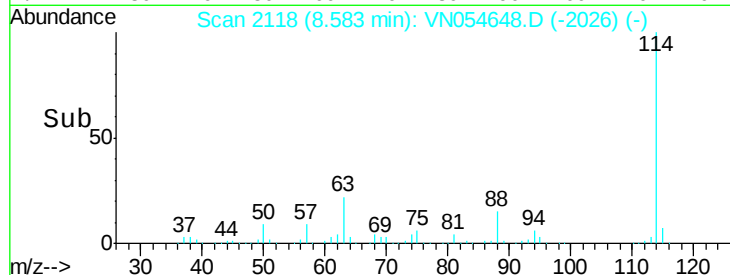
88 15.4 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 46.231 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN054648.D

Acq: 24 Mar 2019 15:15

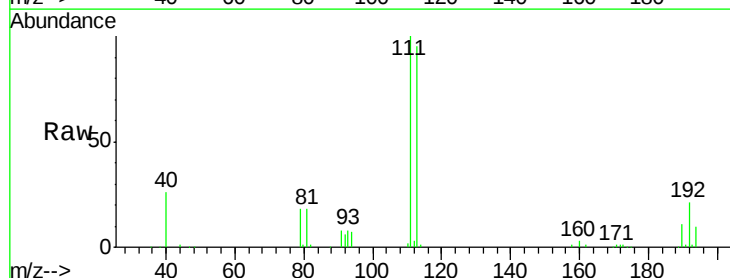
Tgt Ion:113 Resp: 260694

Ion Ratio Lower Upper

113 100

111 102.8 82.2 123.4

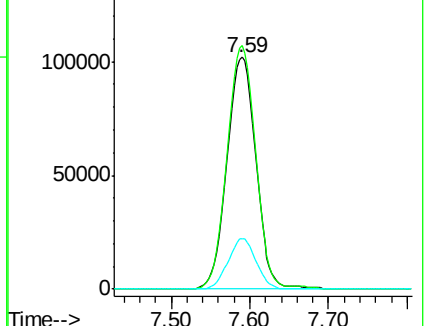
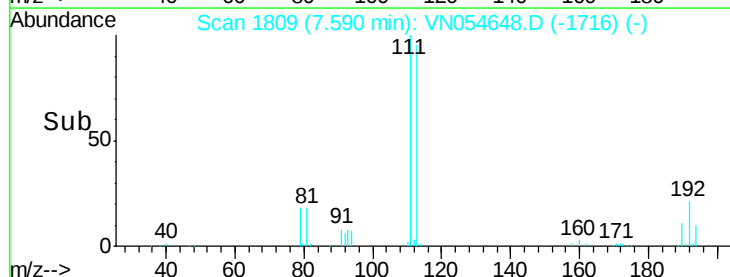
192 21.0 19.2 28.8

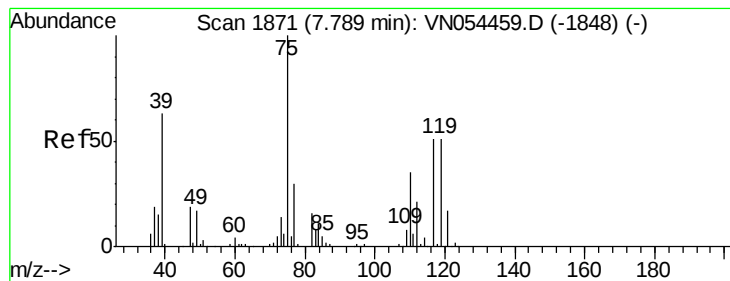


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.129 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN054648.D

Acq: 24 Mar 2019 15:15

Instrument :
MSVOA_N
ClientSampled :

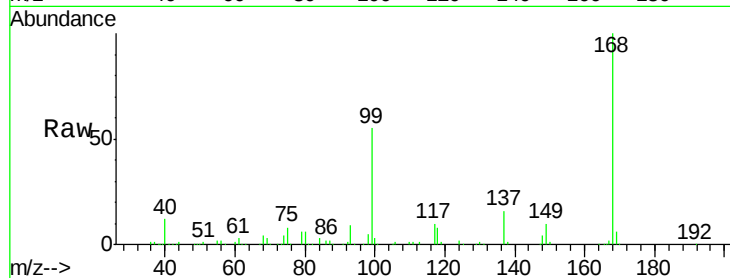
Tot Ion: 75 Resp: 41979

Ion Ratio Lower Upper

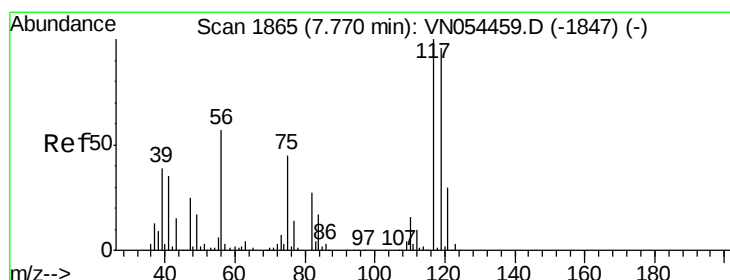
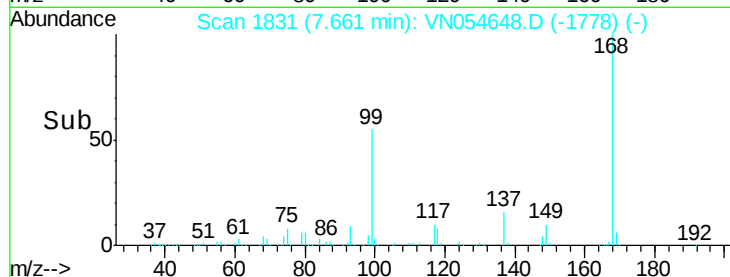
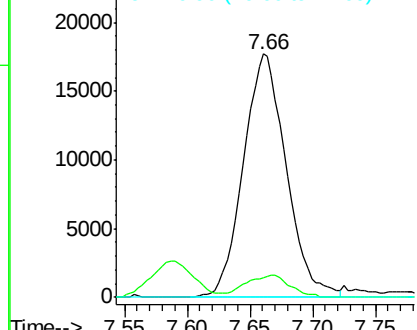
75 100

110 9.2 19.1 57.5#

77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VN0



#38

Carbon Tetrachloride

Concen: 6.496 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN054648.D

Acq: 24 Mar 2019 15:15

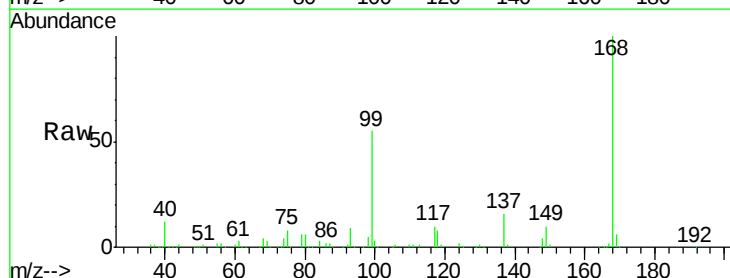
Tgt Ion: 117 Resp: 51660

Ion Ratio Lower Upper

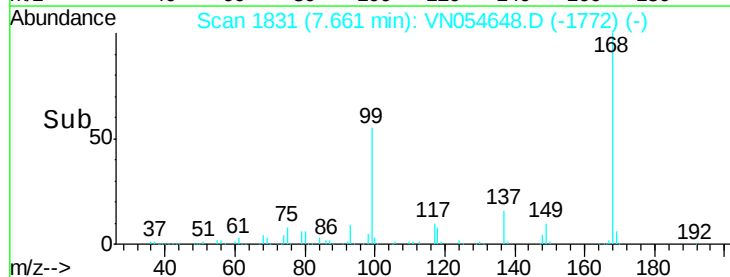
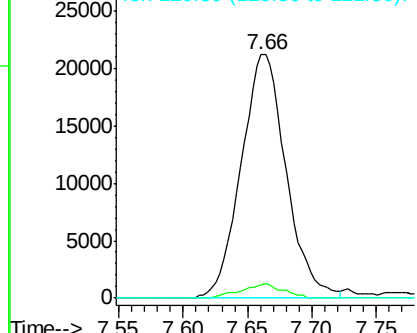
117 100

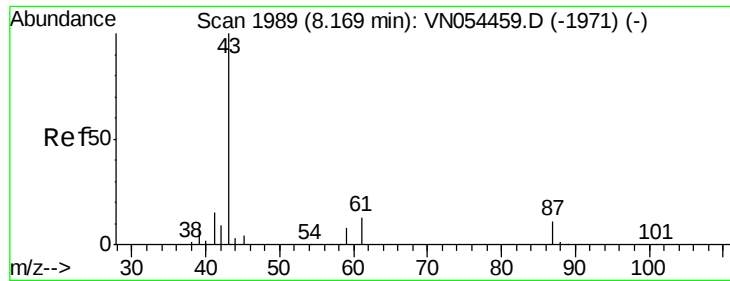
119 5.5 76.3 114.5#

121 0.0 24.6 36.8#



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





#43

Isopropyl Acetate

Concen: 1.757 ug/l

RT: 8.20 min Scan# 1999

Delta R.T. 0.03 min

Lab File: VN054648.D

Acq: 24 Mar 2019 15:15

Instrument :

MSVOA_N

ClientSampleId :

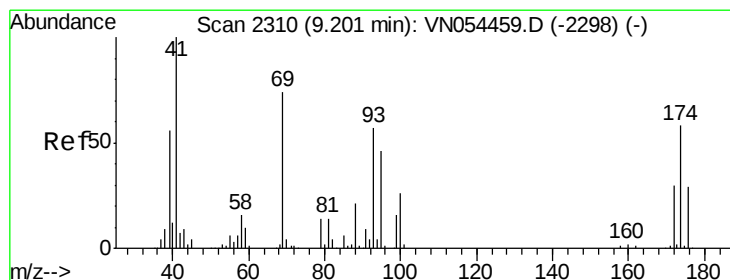
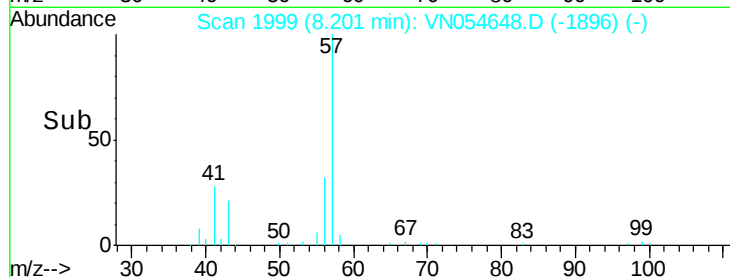
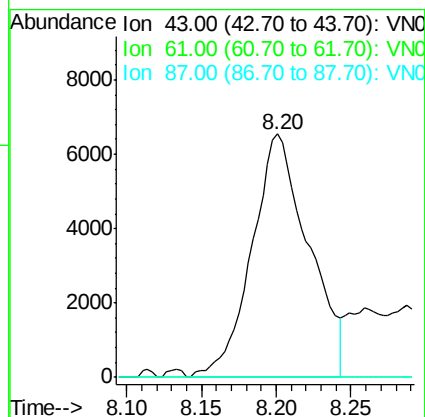
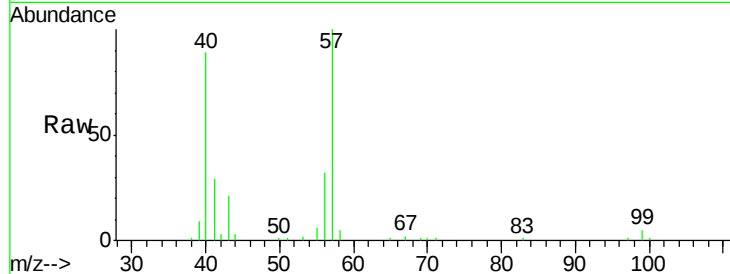
Tot Ion: 43 Resp: 17276

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.8#

87 0.0 12.0 18.0#



#48

Methyl methacrylate

Concen: 0.456 ug/l

RT: 9.22 min Scan# 2315

Delta R.T. 0.02 min

Lab File: VN054648.D

Acq: 24 Mar 2019 15:15

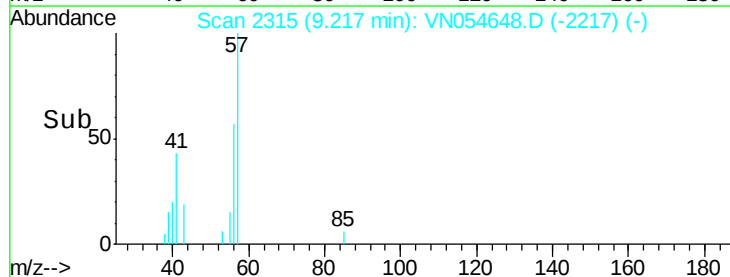
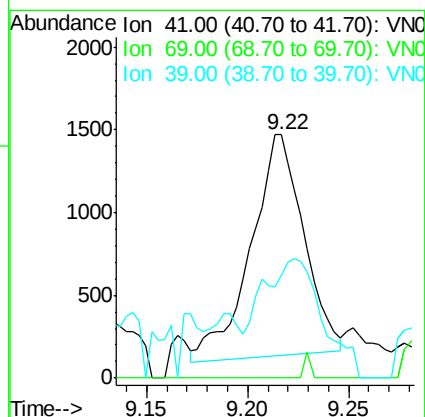
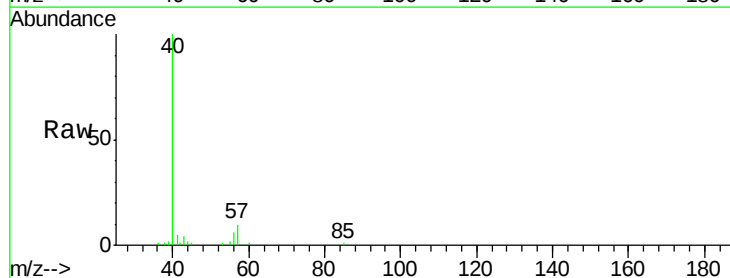
Tgt Ion: 41 Resp: 2434

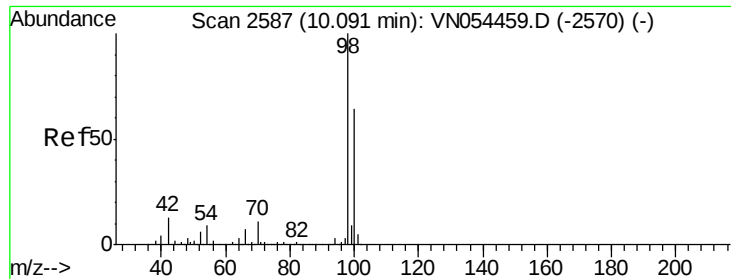
Ion Ratio Lower Upper

41 100

69 1.2 72.6 108.8#

39 62.3 47.5 71.3

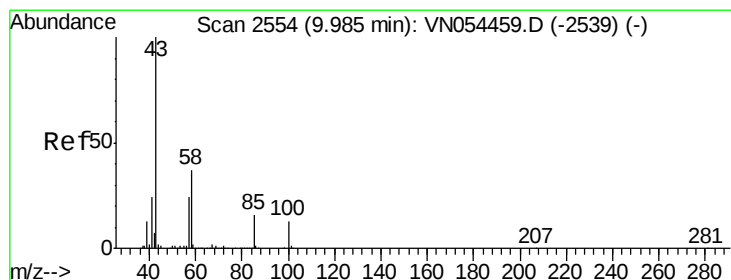
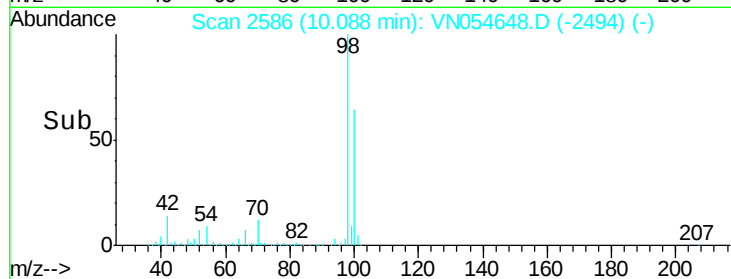
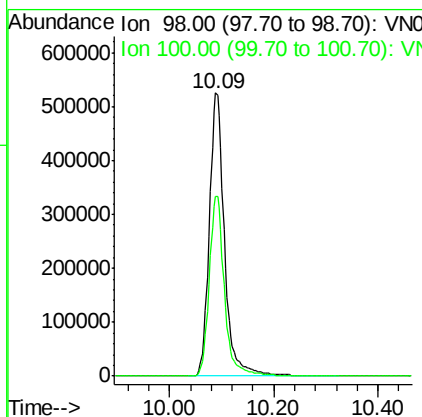
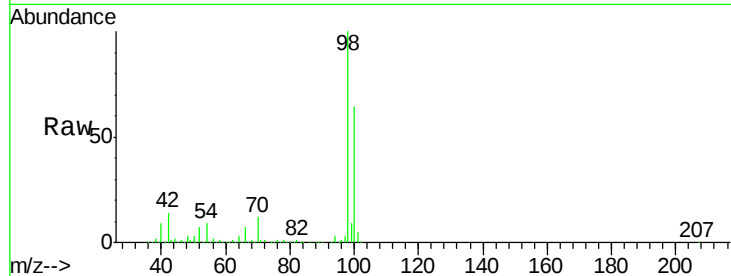




#50
Toluene-d8
Concen: 50.419 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN054648.D
Acq: 24 Mar 2019 15:15

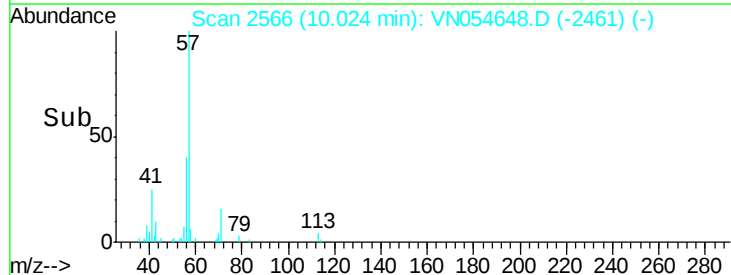
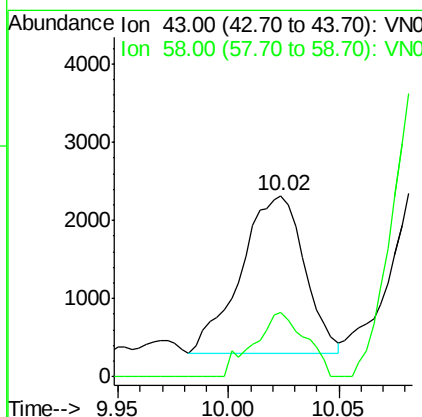
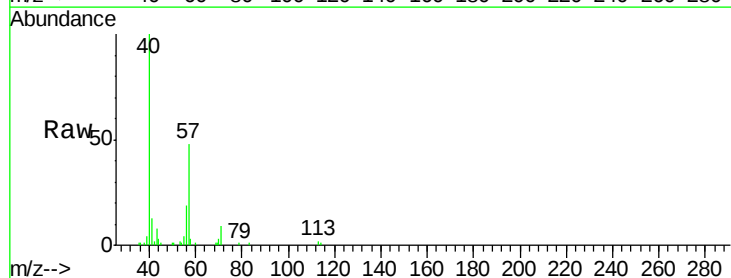
Instrument :
MSVOA_N
ClientSampled :

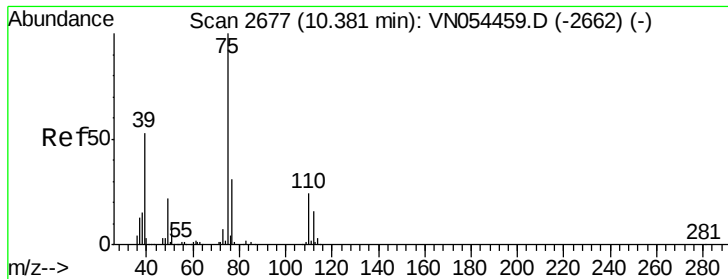
Tot Ion: 98 Resp: 1068840
Ion Ratio Lower Upper
98 100
100 63.9 51.2 76.8



#51
4-Methyl-2-Pentanone
Concen: 0.734 ug/l
RT: 10.02 min Scan# 2566
Delta R.T. 0.04 min
Lab File: VN054648.D
Acq: 24 Mar 2019 15:15

Tgt Ion: 43 Resp: 3998
Ion Ratio Lower Upper
43 100
58 33.5 31.8 47.6





#53

t-1,3-Dichloropropene

Concen: 2.235 ug/l

RT: 10.26 min Scan# 2639

Delta R.T. -0.12 min

Lab File: VN054648.D

Acq: 24 Mar 2019 15:15

Instrument :

MSVOA_N

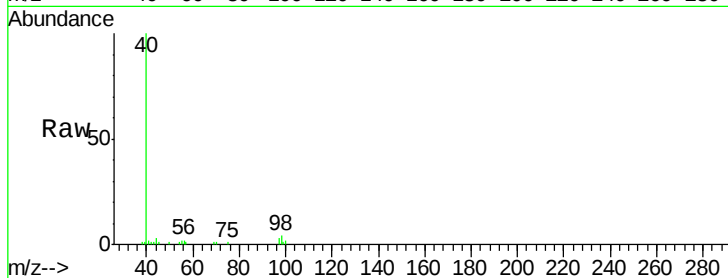
ClientSampleId :

Tot Ion: 75 Resp: 29

Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

10.26

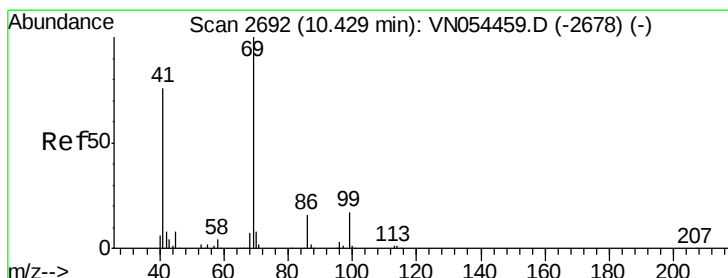
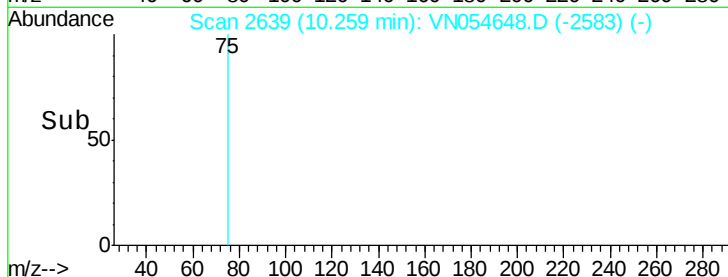
150

100

50

0

Time-->



#56

Ethyl methacrylate

Concen: 0.279 ug/l

RT: 10.39 min Scan# 2680

Delta R.T. -0.04 min

Lab File: VN054648.D

Acq: 24 Mar 2019 15:15

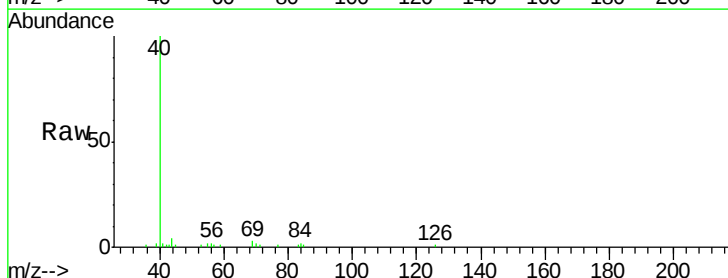
Tgt Ion: 69 Resp: 1935

Ion Ratio Lower Upper

69 100

41 54.4 49.4 74.2

39 50.1 28.3 42.5#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

1000

800

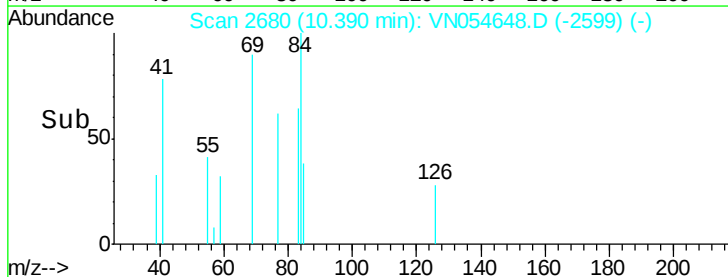
600

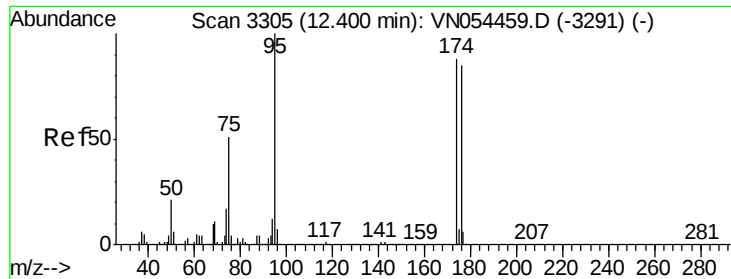
400

200

0

Time-->

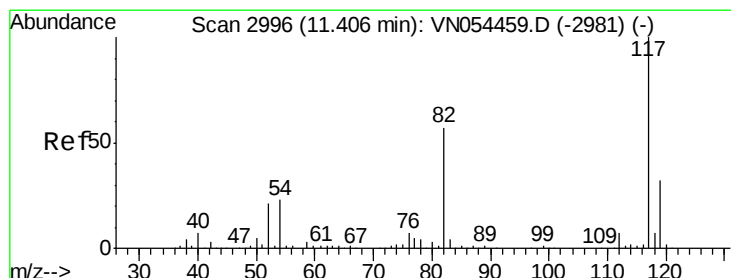
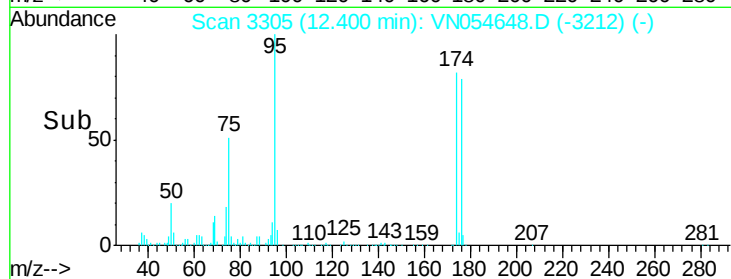
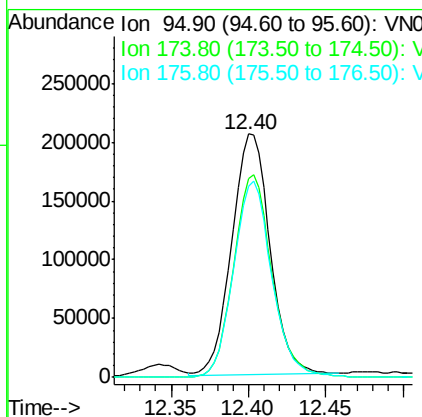
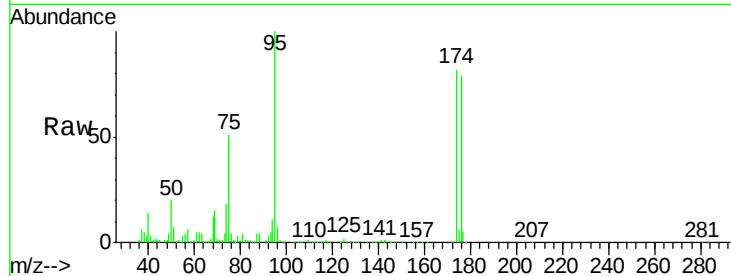




#62
4-Bromofluorobenzene
Concen: 48.729 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN054648.D
Acq: 24 Mar 2019 15:15

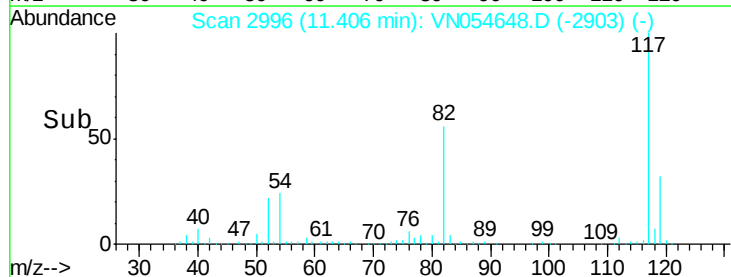
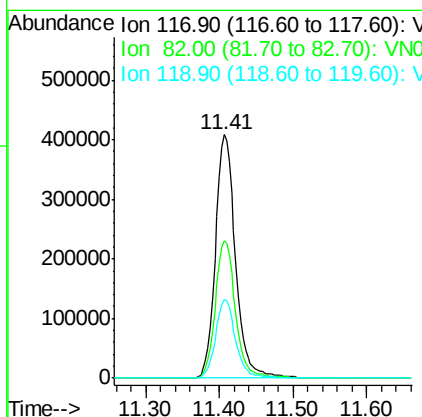
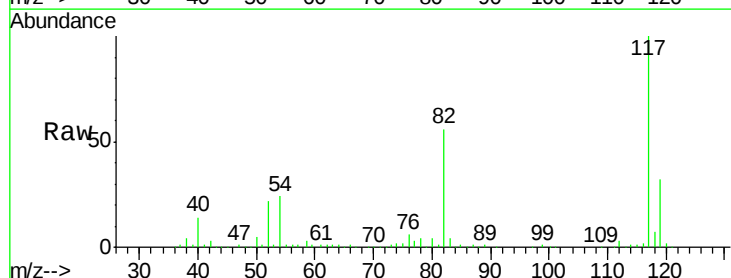
Instrument :
MSVOA_N
ClientSampled :

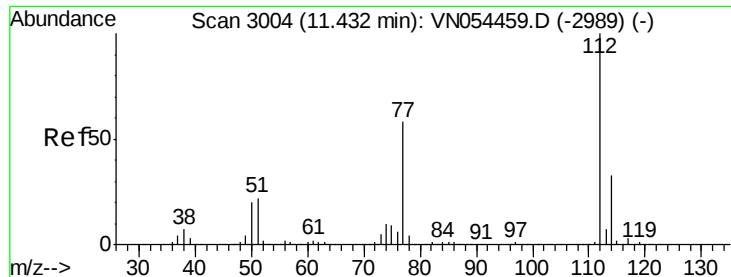
Tot Ion: 95 Resp: 351513
Ion Ratio Lower Upper
95 100
174 84.2 0.0 191.0
176 81.7 0.0 187.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054648.D
Acq: 24 Mar 2019 15:15

Tgt Ion: 117 Resp: 769159
Ion Ratio Lower Upper
117 100
82 56.4 40.0 60.0
119 32.1 25.8 38.6

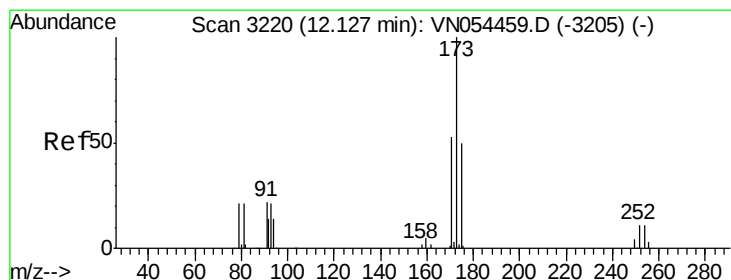
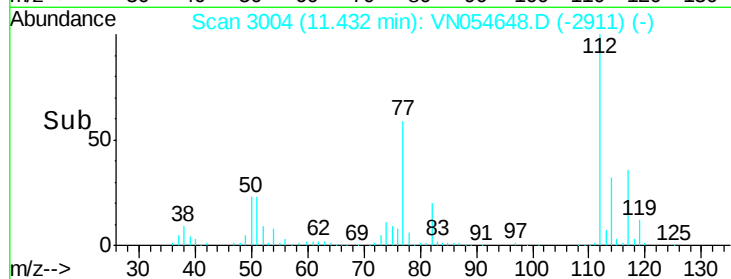
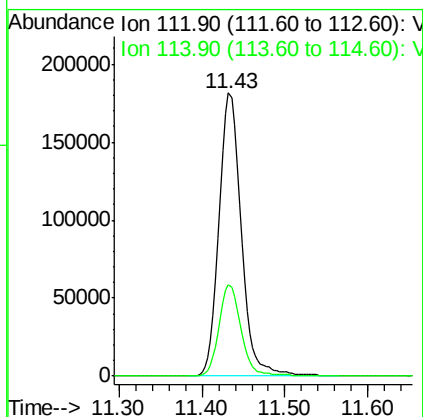
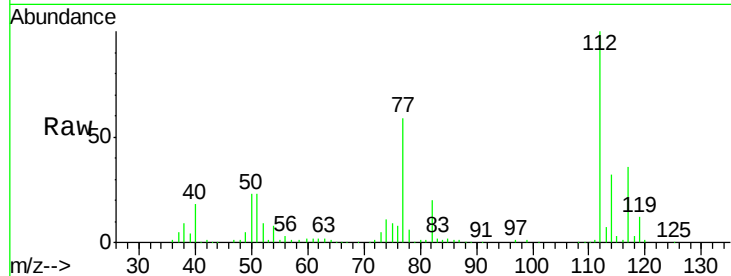




#65
Chlorobenzene
Concen: 21.598 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN054648.D
Acq: 24 Mar 2019 15:15

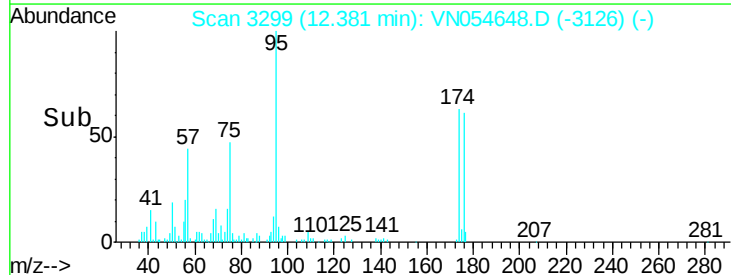
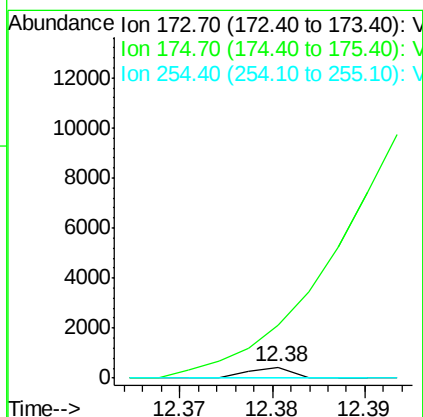
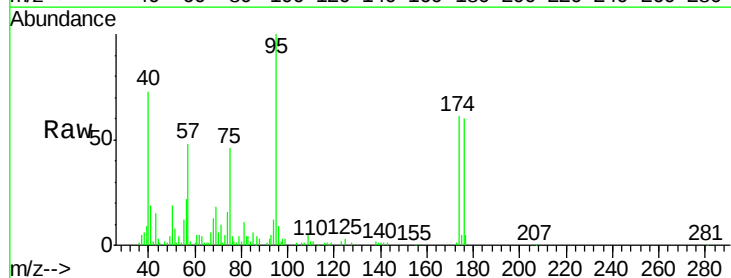
Instrument :
MSVOA_N
ClientSampled :

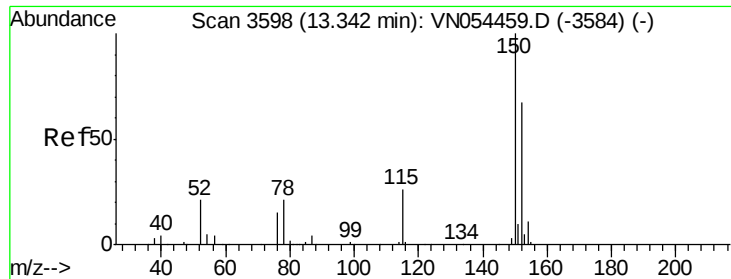
Tot Ion:112 Resp: 337879
Ion Ratio Lower Upper
112 100
114 32.4 25.9 38.9



#71
Bromoform
Concen: 2.253 ug/l
RT: 12.38 min Scan# 3299
Delta R.T. 0.25 min
Lab File: VN054648.D
Acq: 24 Mar 2019 15:15

Tgt Ion:173 Resp: 133
Ion Ratio Lower Upper
173 100
175 0.0 24.4 73.2#
254 0.0 0.1 0.1#



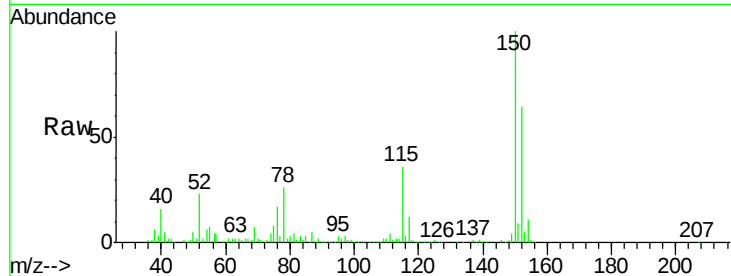


#72

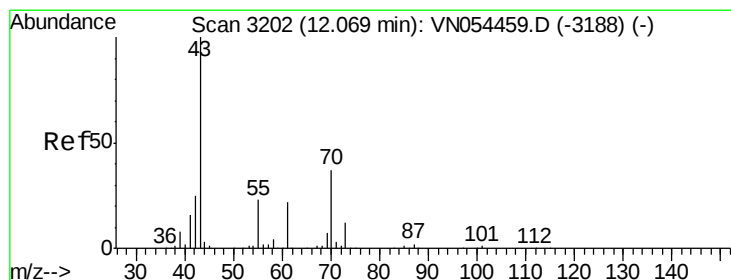
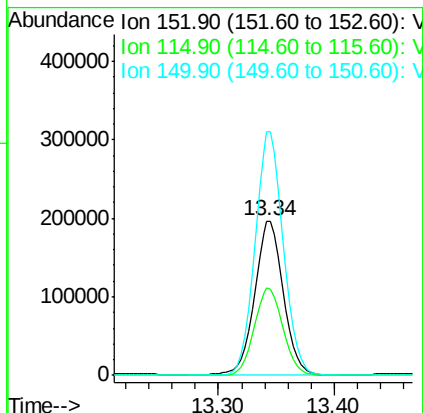
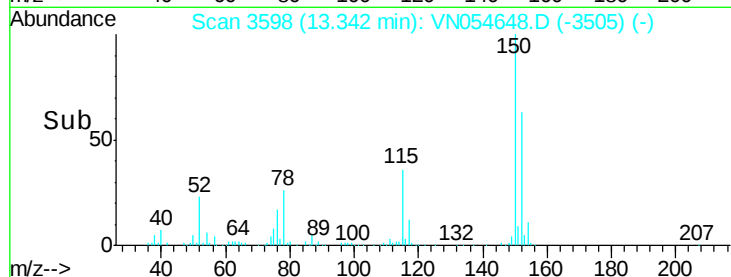
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN054648.D
Acq: 24 Mar 2019 15:15

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:152 Resp: 339595
Ion Ratio Lower Upper
152 100
115 56.4 27.2 81.6
150 154.6 0.0 349.2



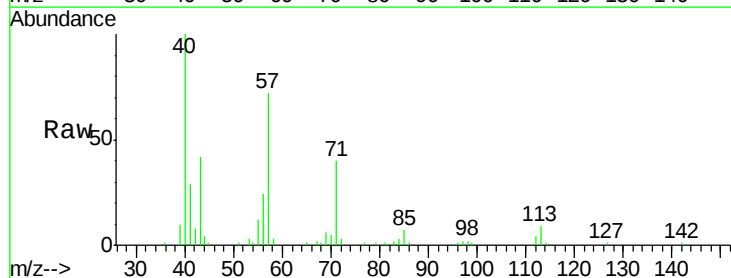
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



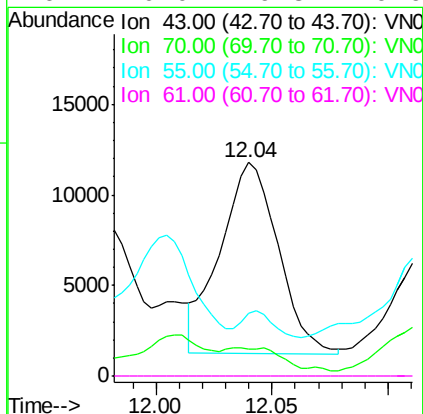
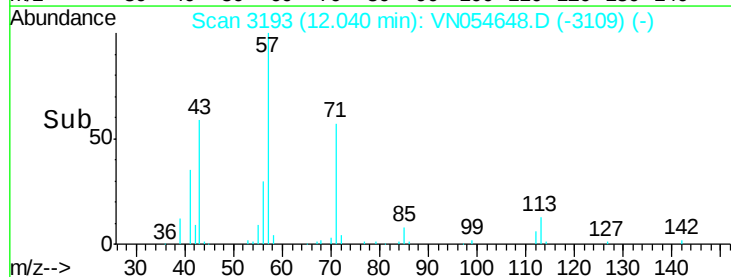
#74

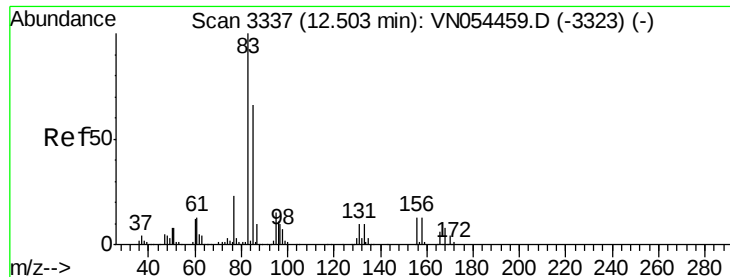
N-ethyl acetate
Concen: 2.327 ug/l
RT: 12.04 min Scan# 3193
Delta R.T. -0.03 min
Lab File: VN054648.D
Acq: 24 Mar 2019 15:15

Tgt Ion: 43 Resp: 18308
Ion Ratio Lower Upper
43 100
70 0.0 35.4 53.0#
55 7.1 19.8 29.6#
61 0.0 19.8 29.6#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 70.00 (69.70 to 70.70): V
Ion 55.00 (54.70 to 55.70): V
Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 0.762 ug/l

RT: 12.46 min Scan# 3323

Delta R.T. -0.05 min

Lab File: VN054648.D

Acq: 24 Mar 2019 15:15

Instrument :

MSVOA_N

ClientSampleId :

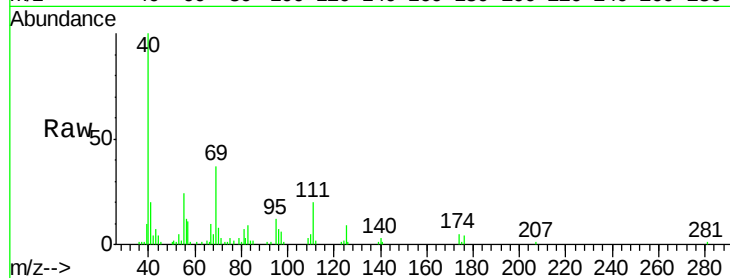
Tot Ion: 83 Resp: 4757

Ion Ratio Lower Upper

83 100

131 0.0 5.8 17.4#

85 6.0 32.2 96.6#

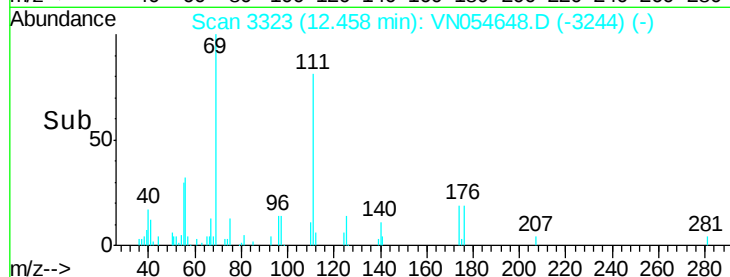


Abundance Ion 82.90 (82.60 to 83.60): VN054459.D (-3323) (-)

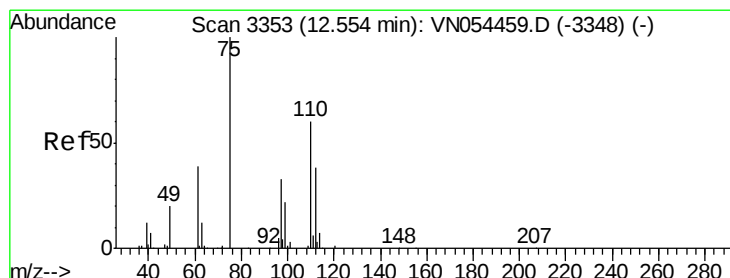
Ion 130.80 (130.50 to 131.50): VN054459.D (-3323) (-)

Ion 84.90 (84.60 to 85.60): VN054459.D (-3323) (-)

Time--> 12.40 12.45 12.50



Time--> 12.40 12.45 12.50



#76

1,2,3-Trichloropropane

Concen: 33.896 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN054648.D

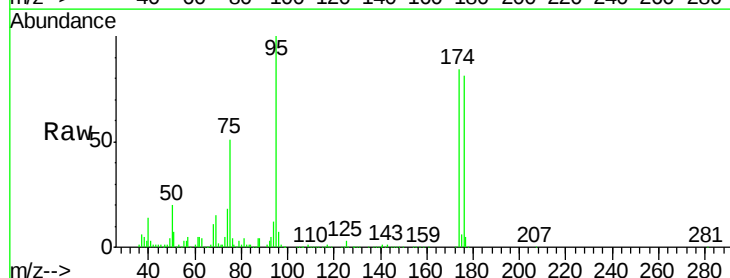
Acq: 24 Mar 2019 15:15

Tgt Ion: 75 Resp: 182660

Ion Ratio Lower Upper

75 100

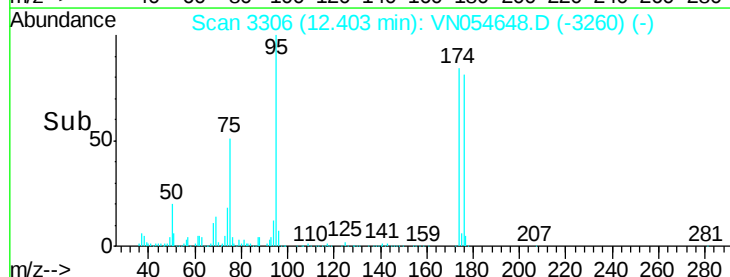
77 1.4 0.0 0.0#



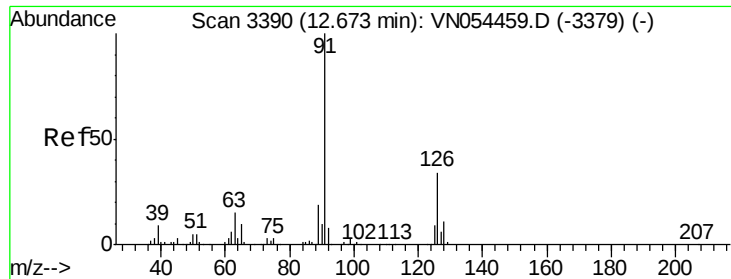
Abundance Ion 74.90 (74.60 to 75.60): VN054459.D (-3348) (-)

Ion 77.00 (76.70 to 77.70): VN054459.D (-3348) (-)

Time--> 12.30 12.40 12.50



Time--> 12.30 12.40 12.50



#79

2-Chlorotoluene

Concen: 0.218 ug/l

RT: 12.67 min Scan# 3388

Delta R.T. -0.01 min

Lab File: VN054648.D

Acq: 24 Mar 2019 15:15

Instrument :

MSVOA_N

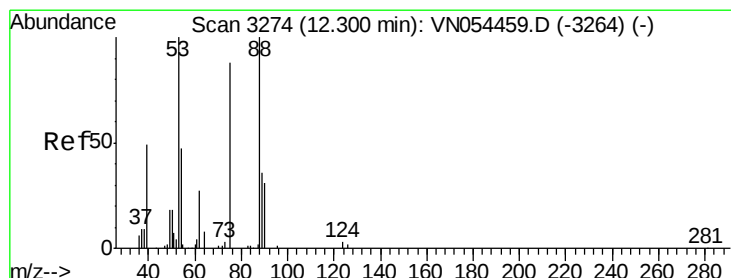
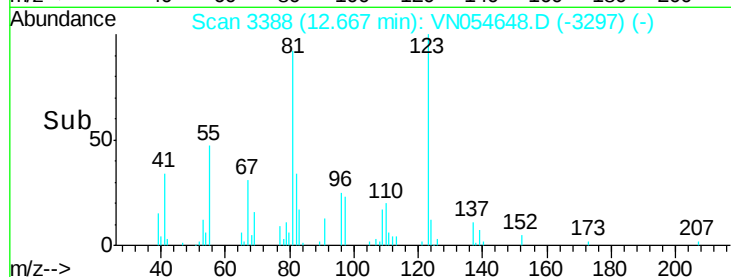
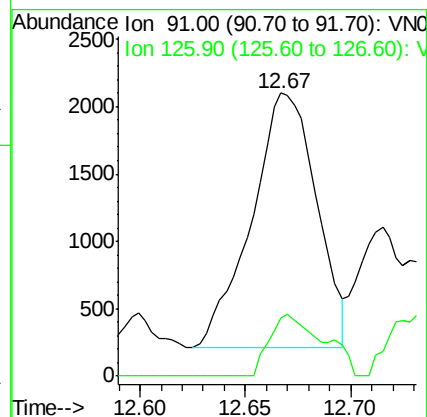
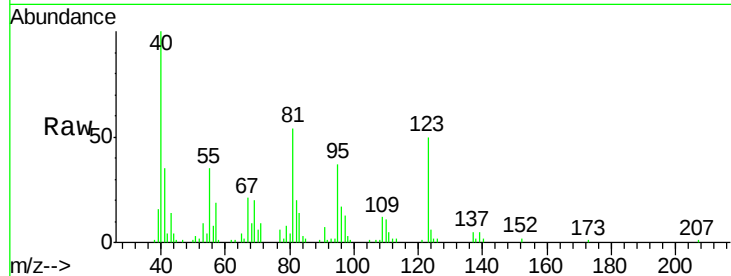
ClientSampled :

Tot Ion: 91 Resp: 4043

Ion Ratio Lower Upper

91 100

126 20.2 18.7 56.1



#81

trans-1,4-Dichloro-2-butene

Concen: 112.610 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN054648.D

Acq: 24 Mar 2019 15:15

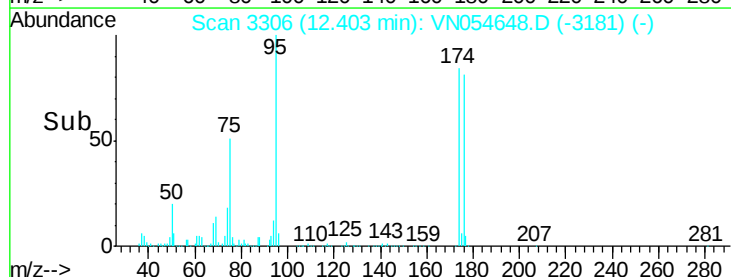
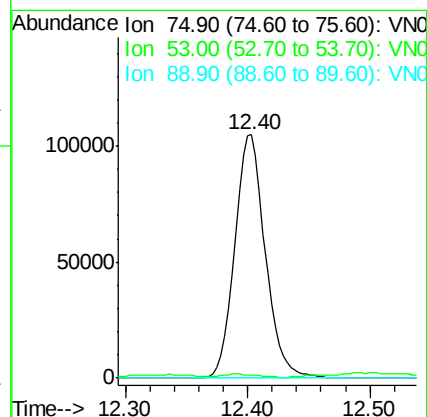
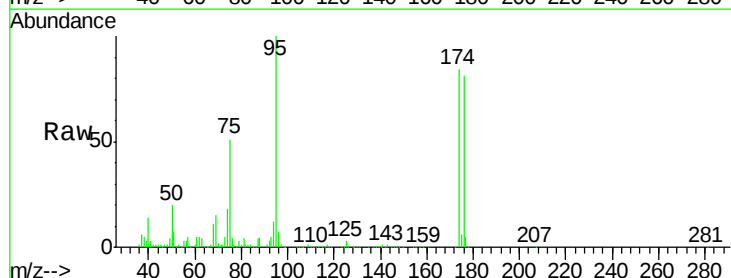
Tgt Ion: 75 Resp: 182660

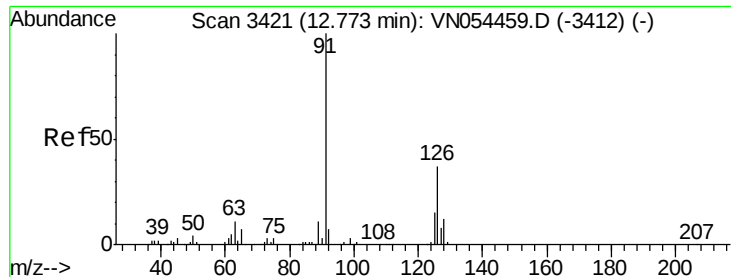
Ion Ratio Lower Upper

75 100

53 1.4 76.2 114.2#

89 0.0 39.2 58.8#





#82

4-Chlorotoluene

Concen: 0.225 ug/l

RT: 12.67 min Scan# 3388

Delta R.T. -0.11 min

Lab File: VN054648.D

Acq: 24 Mar 2019 15:15

Instrument :

MSVOA_N

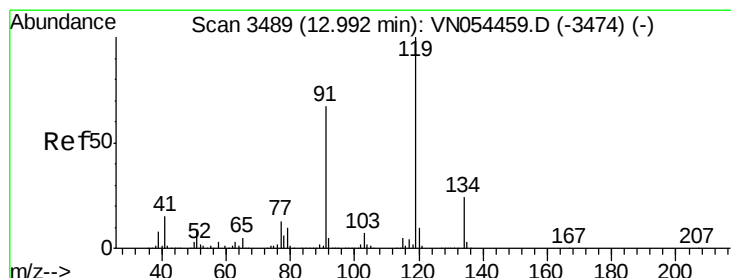
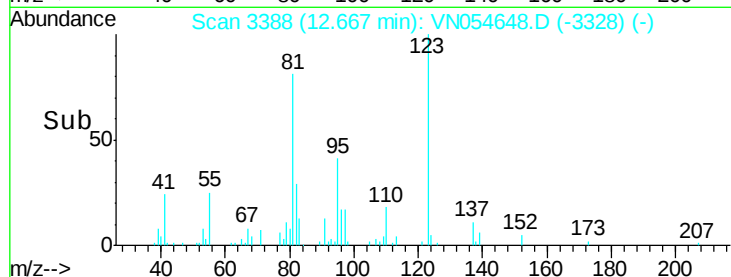
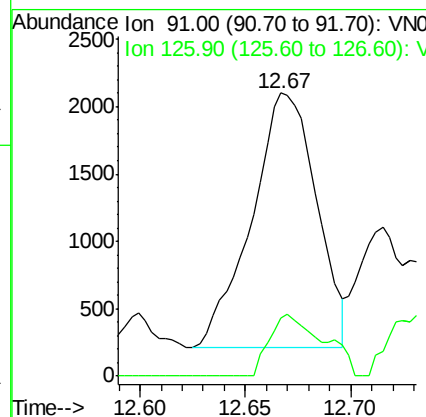
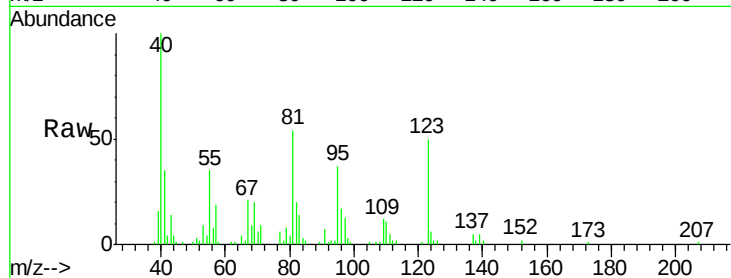
ClientSampled :

Tot Ion: 91 Resp: 4043

Ion Ratio Lower Upper

91 100

126 20.2 18.1 54.1



#83

tert-Butylbenzene

Concen: 0.351 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. -0.00 min

Lab File: VN054648.D

Acq: 24 Mar 2019 15:15

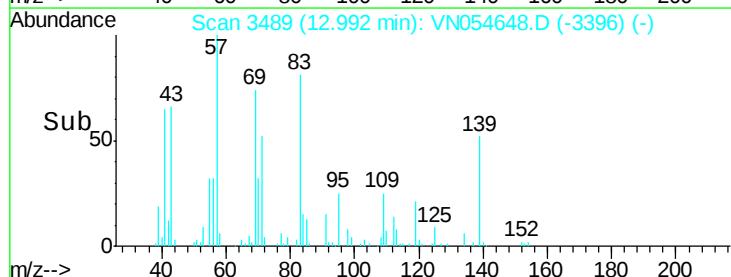
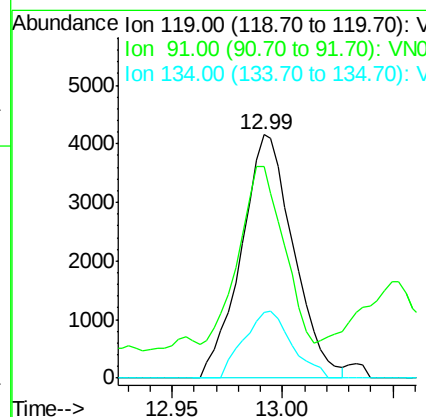
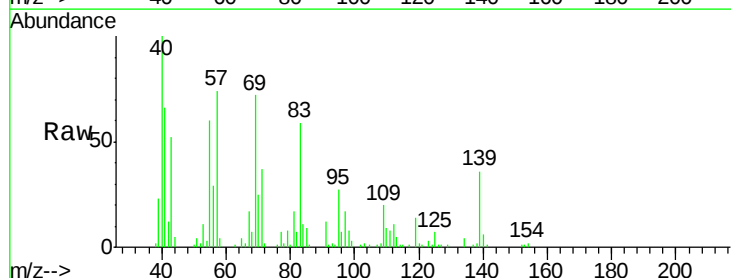
Tgt Ion: 119 Resp: 6848

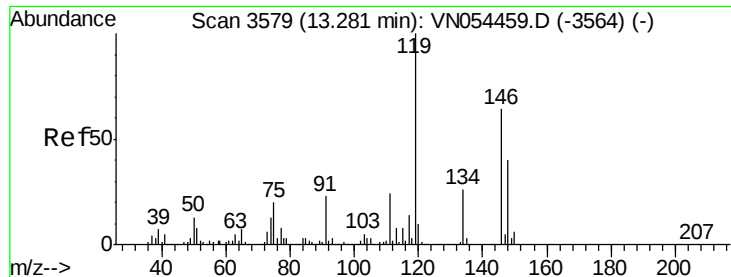
Ion Ratio Lower Upper

119 100

91 62.0 30.9 92.8

134 25.0 13.2 39.6

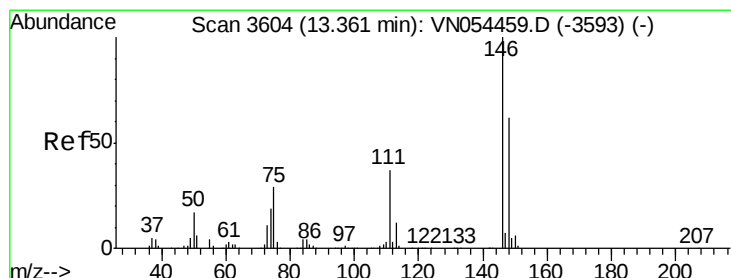
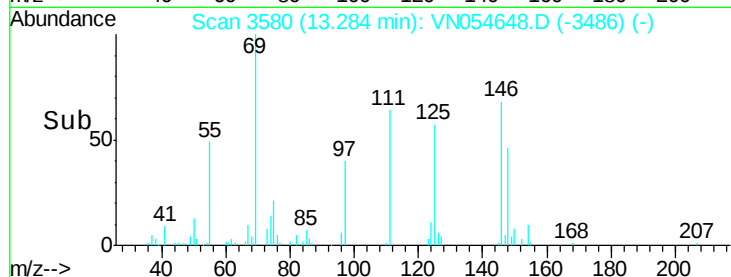
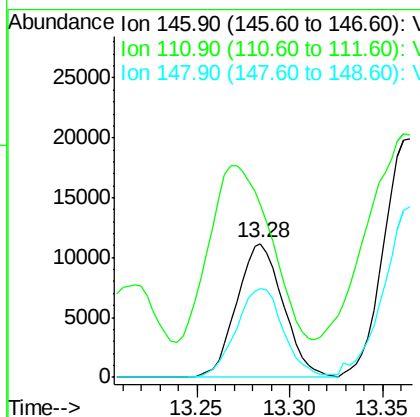
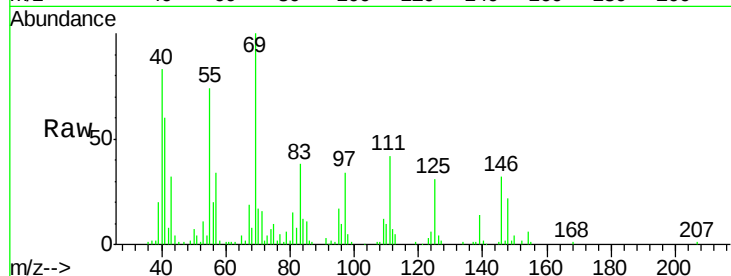




#87
 1,3-Dichlorobenzene
 Concen: 1.719 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN054648.D
 Acq: 24 Mar 2019 15:15

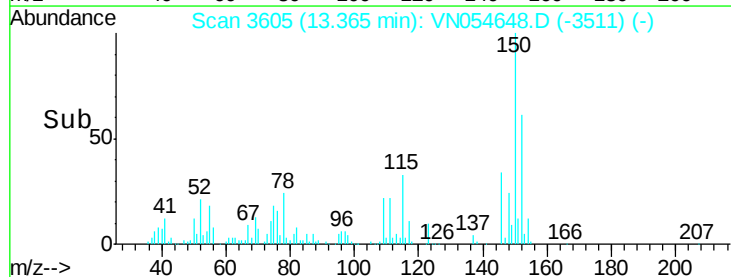
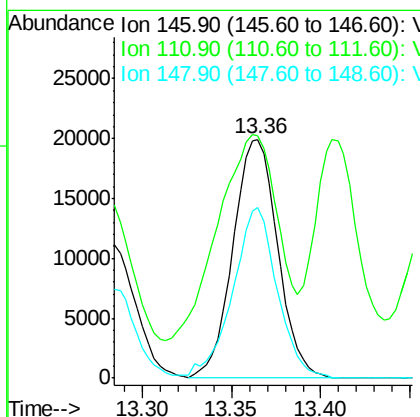
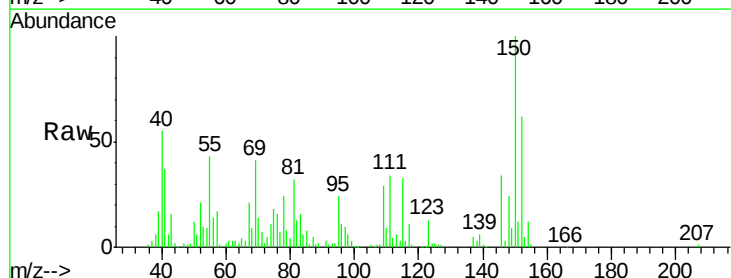
Instrument :
 MSVOA_N
 ClientSampleId :

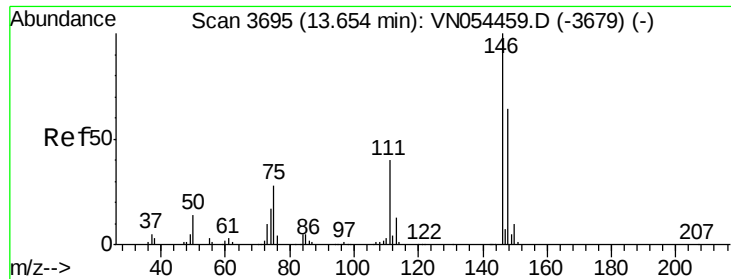
Tot Ion:146 Resp: 19335
 Ion Ratio Lower Upper
 146 100
 111 171.3 18.8 56.3#
 148 67.9 32.2 96.6



#88
 1,4-Dichlorobenzene
 Concen: 3.184 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN054648.D
 Acq: 24 Mar 2019 15:15

Tgt Ion:146 Resp: 34847
 Ion Ratio Lower Upper
 146 100
 111 114.9 18.1 54.1#
 148 71.3 32.0 96.0





#91

1,2-Dichlorobenzene

Concen: 3.092 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. -0.00 min

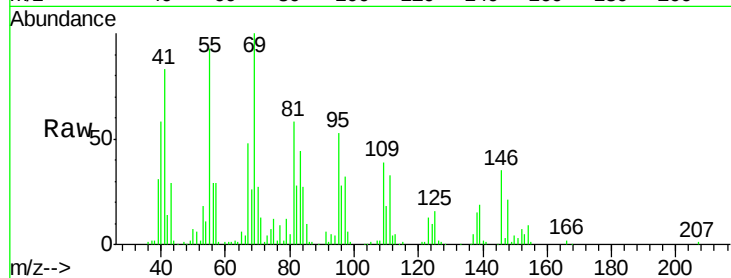
Lab File: VN054648.D

Acq: 24 Mar 2019 15:15

Instrument :

MSVOA_N

ClientSampleId :



Tot Ion:	146	Resp:	33686
Ion	Ratio	Lower	Upper
146	100		
111	83.1	19.1	57.3#
148	59.1	32.4	97.0

