

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032619\
 Data File : VN054701.D
 Acq On : 26 Mar 2019 16:17
 Operator : JC/SP
 Sample : K1693-14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 27 04:08:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	558457	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	883534	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	740889	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	275931	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	360504	51.90	ug/l	0.00
Spiked Amount			Recovery	=	103.80%	
35) Dibromofluoromethane	7.59	113	276432	48.56	ug/l	0.00
Spiked Amount			Recovery	=	97.12%	
50) Toluene-d8	10.09	98	1054266	49.27	ug/l	0.00
Spiked Amount			Recovery	=	98.54%	
62) 4-Bromofluorobenzene	12.40	95	326053	44.78	ug/l	0.00
Spiked Amount			Recovery	=	89.56%	

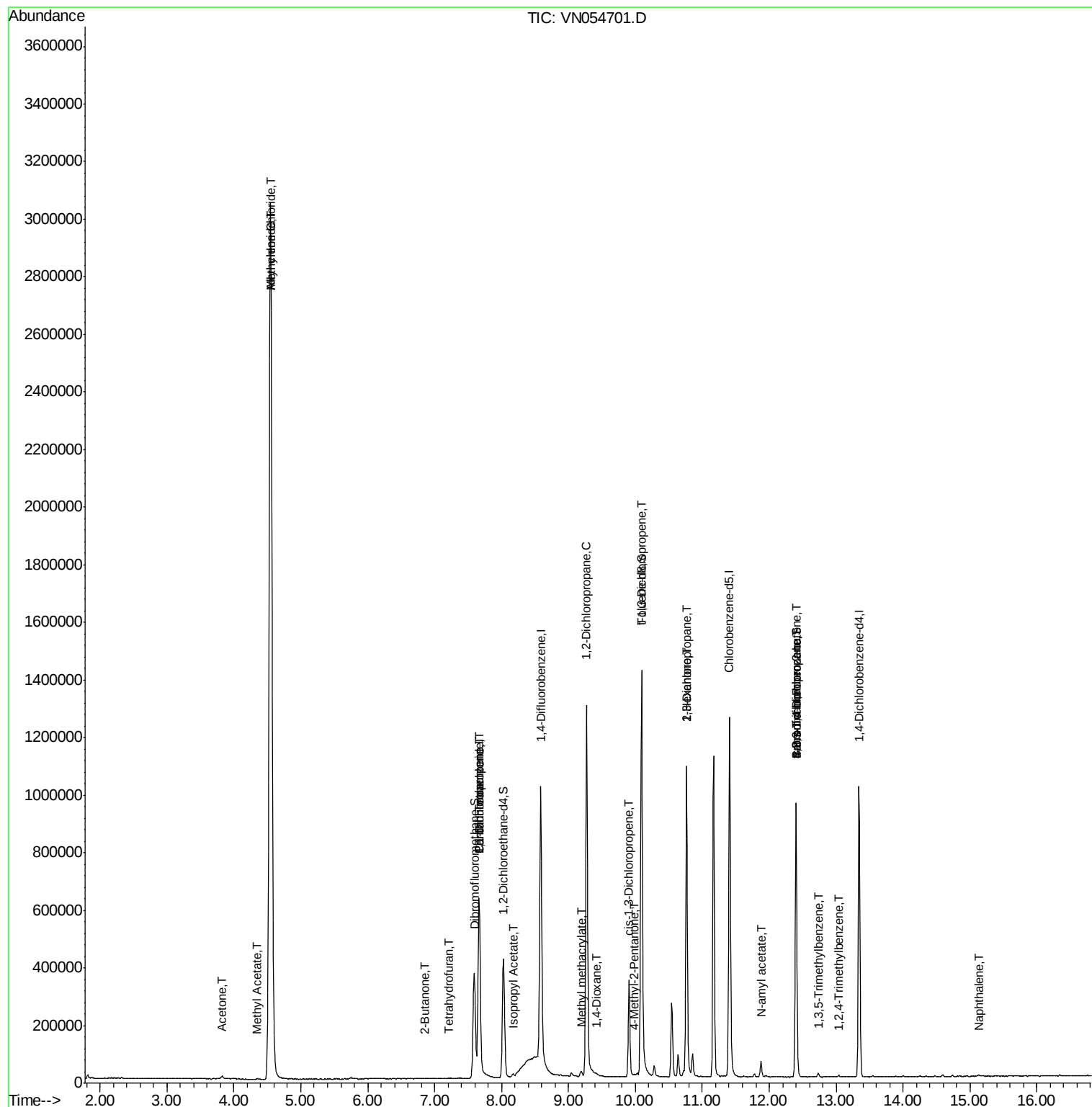
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
14) Allyl chloride	4.55	41	90833	8.955	ug/l #	21
16) Acetone	3.82	43	13781	6.599	ug/l	92
18) Methyl Acetate	4.34	43	3001	0.645	ug/l #	60
20) Methylene Chloride	4.55	84	2120270	344.411	ug/l #	82
25) 2-Butanone	6.85	43	822	0.307	ug/l #	46
29) Tetrahydrofuran	7.22	42	941	0.542	ug/l #	41
31) Cyclohexane	7.67	56	12081	Below Cal	#	28
36) 1,1-Dichloropropene	7.66	75	41565	5.031	ug/l #	47
38) Carbon Tetrachloride	7.66	117	51156	6.372	ug/l #	17
43) Isopropyl Acetate	8.17	43	14945	1.506	ug/l #	94
45) 1,2-Dichloropropane	9.27	63	1568	0.247	ug/l #	43
48) Methyl methacrylate	9.18	41	7642	1.419	ug/l #	11
49) 1,4-Dioxane	9.40	88	29	0.482	ug/l #	27
51) 4-Methyl-2-Pentanone	9.98	43	5560	1.011	ug/l #	84
53) t-1,3-Dichloropropene	10.09	75	167	2.251	ug/l #	1
54) cis-1,3-Dichloropropene	9.90	75	54292	6.029	ug/l #	72
57) 1,3-Dichloropropane	10.76	76	11109	1.224	ug/l #	43
59) 2-Hexanone	10.76	43	177496	49.412	ug/l #	47
71) Bromoform	12.40	173	3454	3.106	ug/l #	1
74) N-amyl acetate	11.88	43	18874	2.952	ug/l #	50
76) 1,2,3-Trichloropropane	12.40	75	168133	38.399	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	5206	0.286	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	168133	127.149	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.04	105	4106	0.230	ug/l	91
95) Naphthalene	15.13	128	4442	0.451	ug/l	99

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

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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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054701.D

Acq: 26 Mar 2019 16:17

Instrument :

MSVOA_N

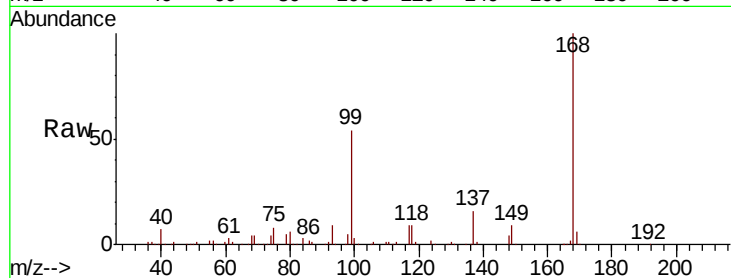
ClientSampleId :

Tot Ion:168 Resp: 558457

Ion Ratio Lower Upper

168 100

99 54.4 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

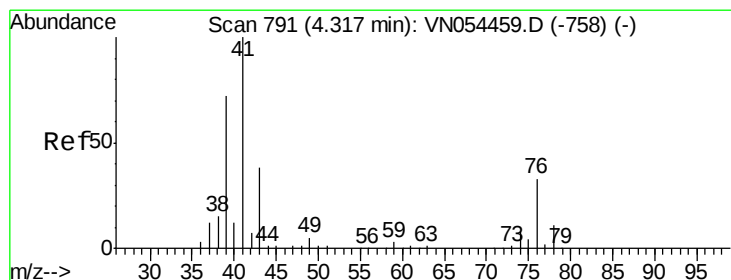
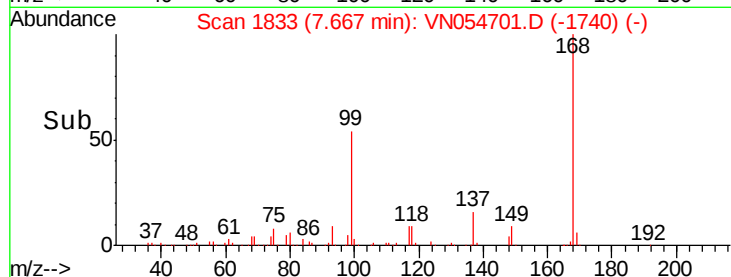
150000

100000

50000

0

Time-->



#14

Allyl chloride

Concen: 8.955 ug/l

RT: 4.55 min Scan# 863

Delta R.T. 0.23 min

Lab File: VN054701.D

Acq: 26 Mar 2019 16:17

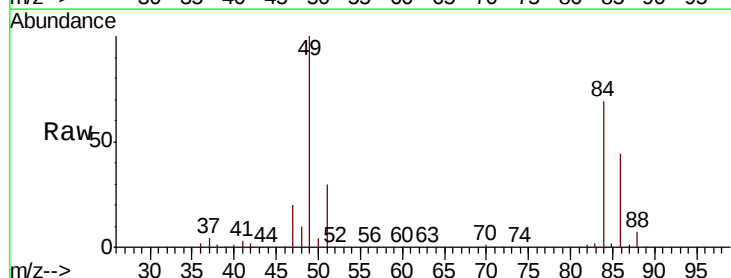
Tgt Ion: 41 Resp: 90833

Ion Ratio Lower Upper

41 100

39 0.4 58.2 87.4#

76 0.0 31.7 47.5#



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO

4.55

40000

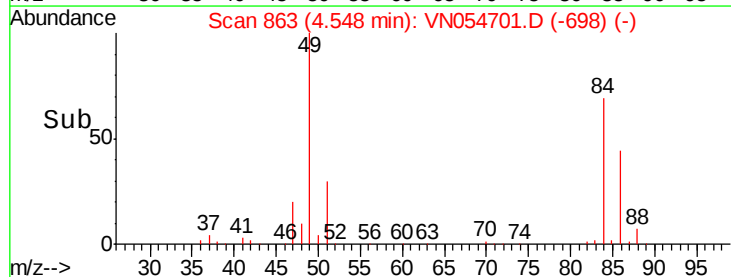
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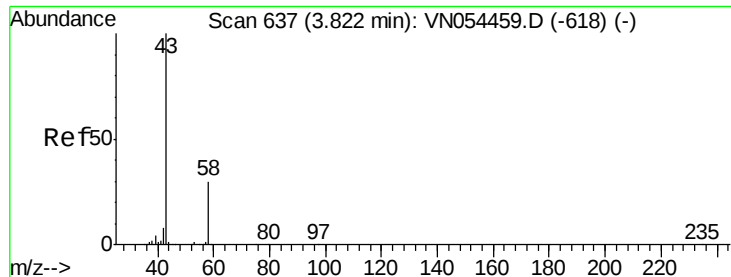
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Time-->

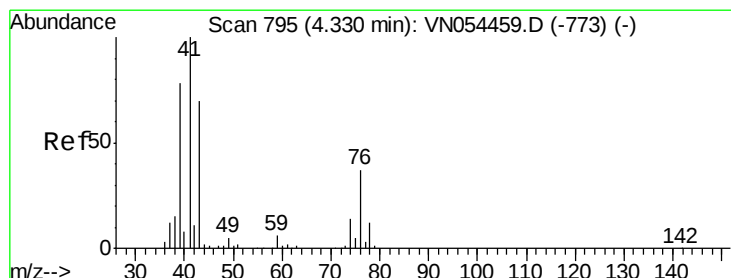
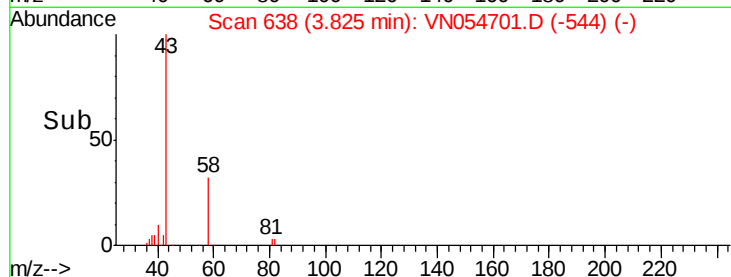
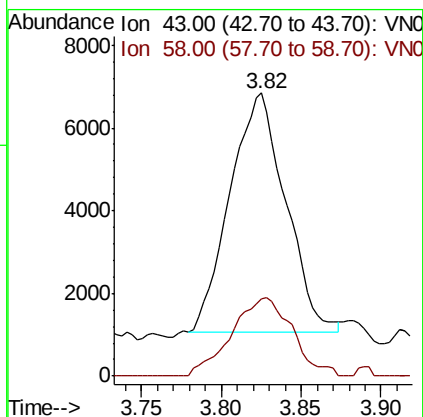
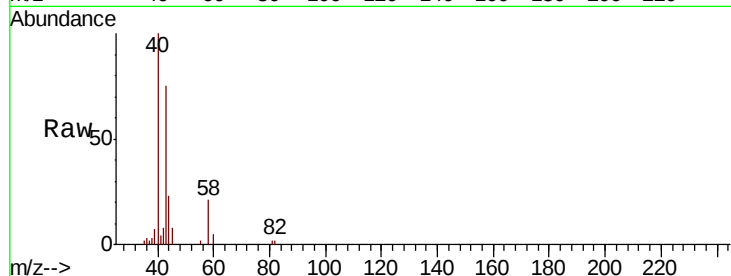




#16
Acetone
Concen: 6.599 ug/l
RT: 3.82 min Scan# 638
Delta R.T. 0.00 min
Lab File: VN054701.D
Acq: 26 Mar 2019 16:17

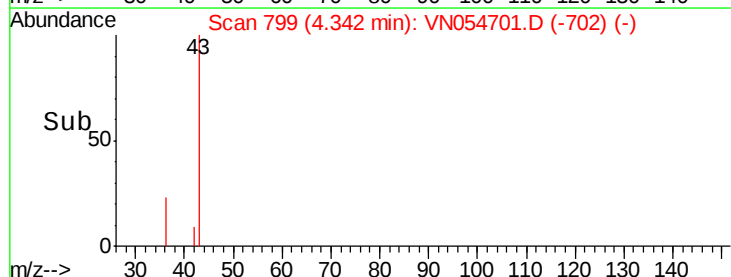
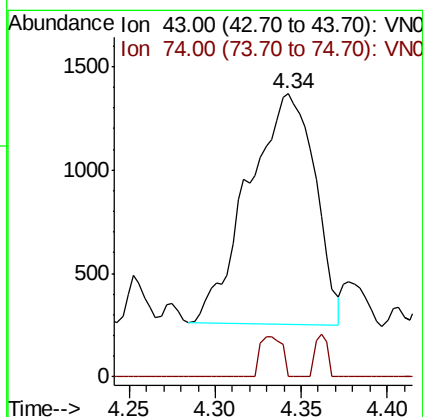
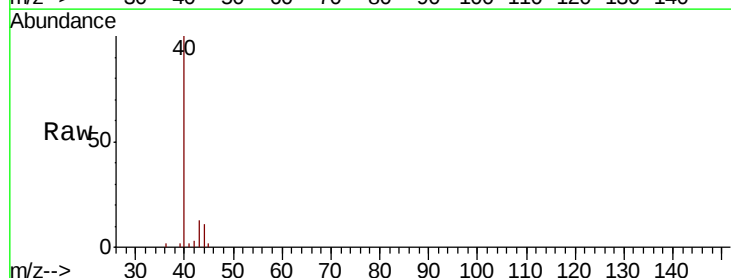
Instrument :
MSVOA_N
ClientSampleId :

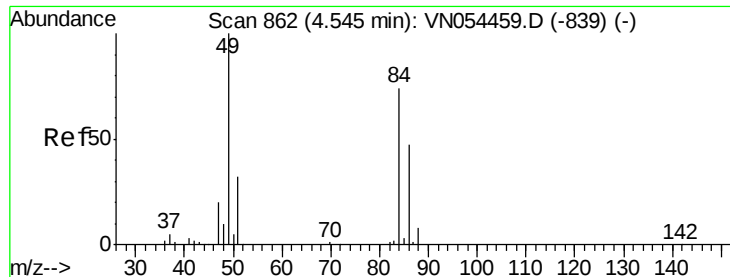
Tot Ion: 43 Resp: 13781
Ion Ratio Lower Upper
43 100
58 32.5 29.9 44.9



#18
Methyl Acetate
Concen: 0.645 ug/l
RT: 4.34 min Scan# 799
Delta R.T. 0.01 min
Lab File: VN054701.D
Acq: 26 Mar 2019 16:17

Tgt Ion: 43 Resp: 3001
Ion Ratio Lower Upper
43 100
74 5.7 20.8 31.2#

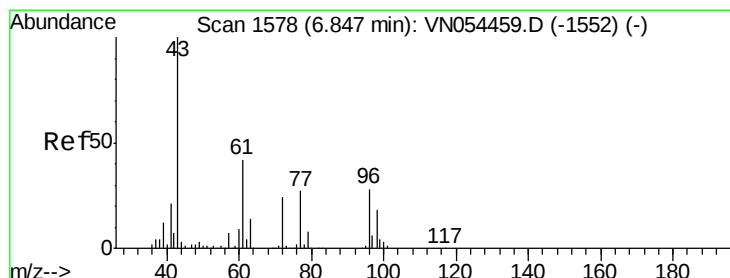
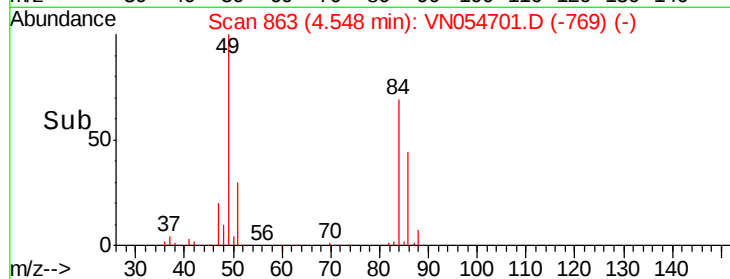
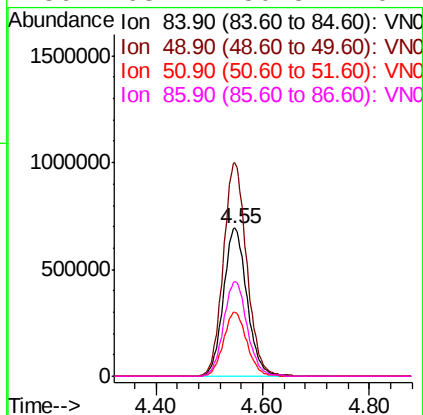
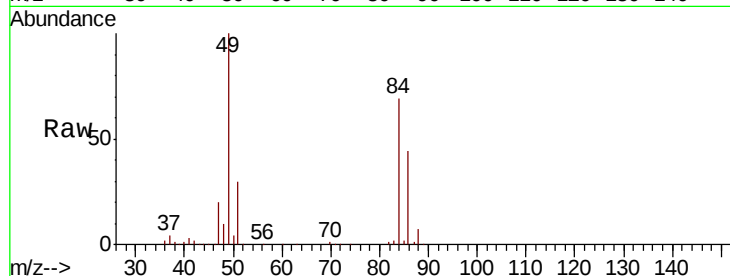




#20
Methylene Chloride
Concen: 344.411 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054701.D
Acq: 26 Mar 2019 16:17

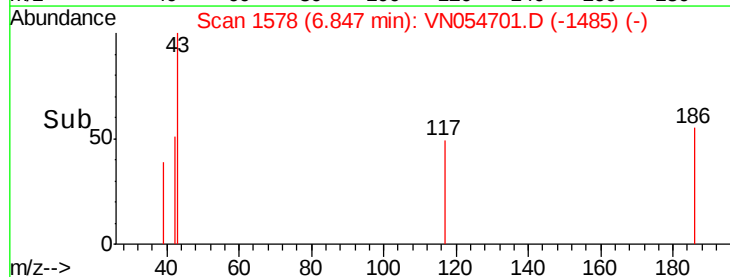
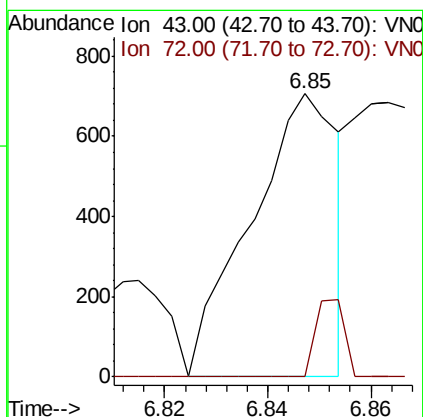
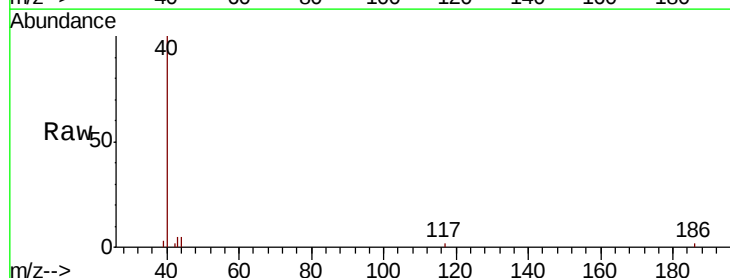
Instrument :
MSVOA_N
ClientSampled :

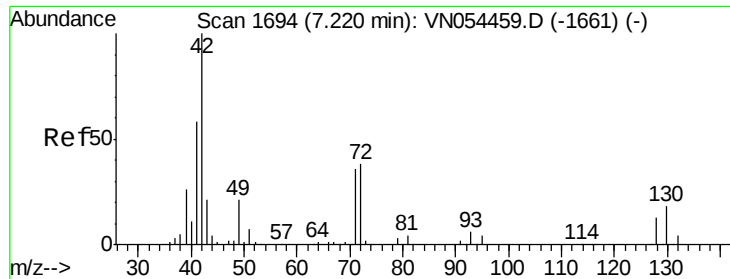
Tot Ion: 84 Resp: 2120270
Ion Ratio Lower Upper
84 100
49 144.2 89.7 134.5#
51 43.6 28.2 42.4#
86 63.7 50.8 76.2



#25
2-Butanone
Concen: 0.307 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.00 min
Lab File: VN054701.D
Acq: 26 Mar 2019 16:17

Tgt Ion: 43 Resp: 822
Ion Ratio Lower Upper
43 100
72 0.0 23.0 34.6#





#29

Tetrahydrofuran

Concen: 0.542 ug/l

RT: 7.22 min Scan# 1695

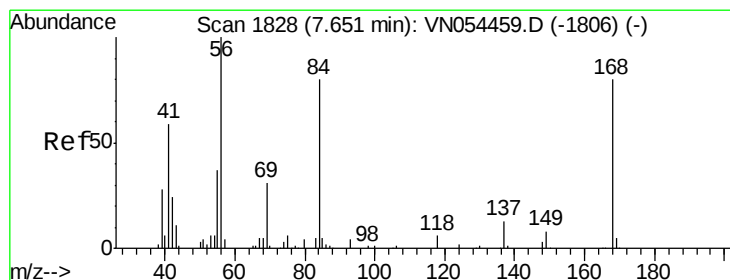
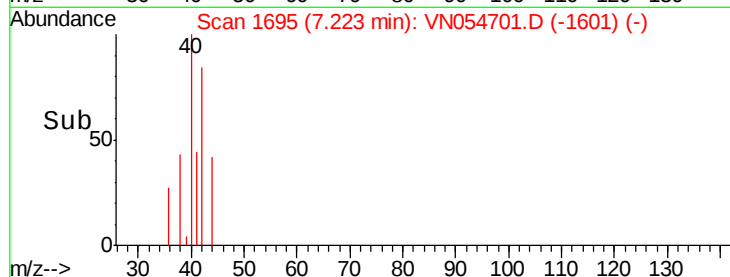
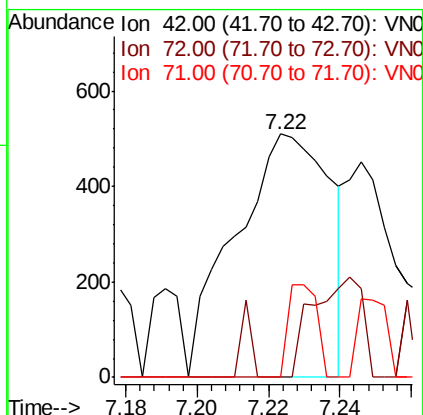
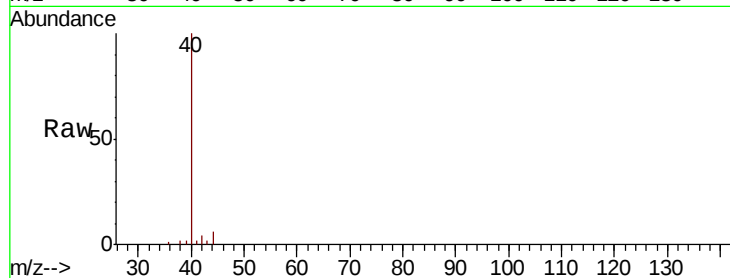
Delta R.T. 0.00 min

Lab File: VN054701.D

Acq: 26 Mar 2019 16:17

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 42 Resp: 941
Ion Ratio Lower Upper
42 100
72 3.3 37.8 56.6#
71 11.5 36.2 54.2#



#31

Cyclohexane

Concen: Below Cal

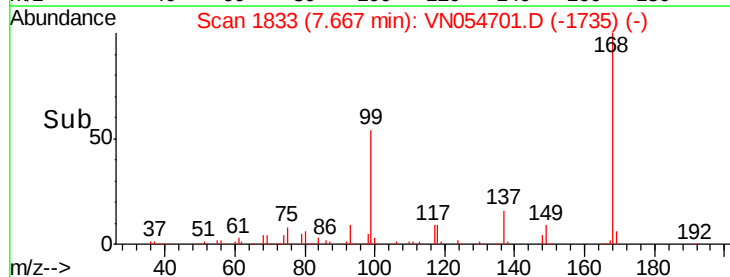
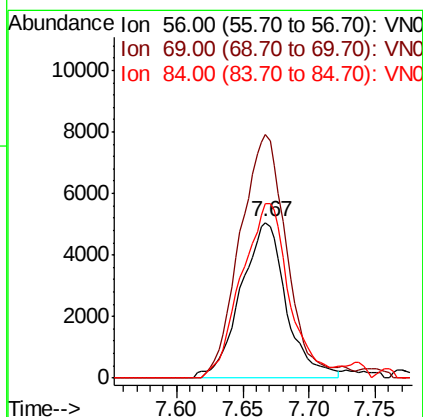
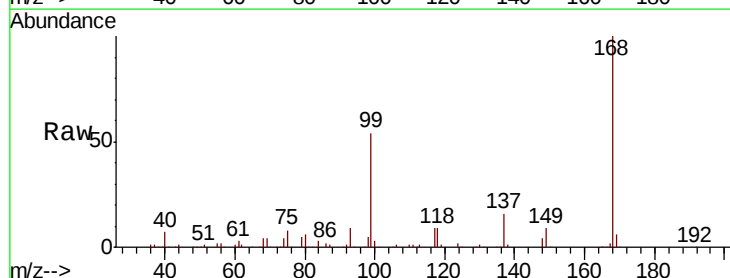
RT: 7.67 min Scan# 1833

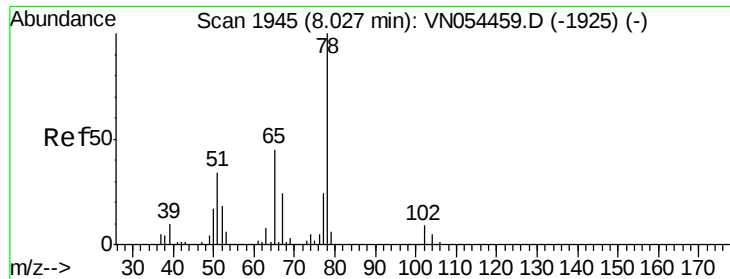
Delta R.T. 0.02 min

Lab File: VN054701.D

Acq: 26 Mar 2019 16:17

Tgt Ion: 56 Resp: 12081
Ion Ratio Lower Upper
56 100
69 156.5 27.8 41.6#
84 112.5 74.6 111.8#

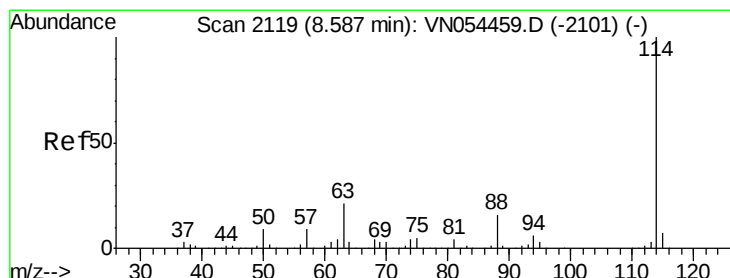
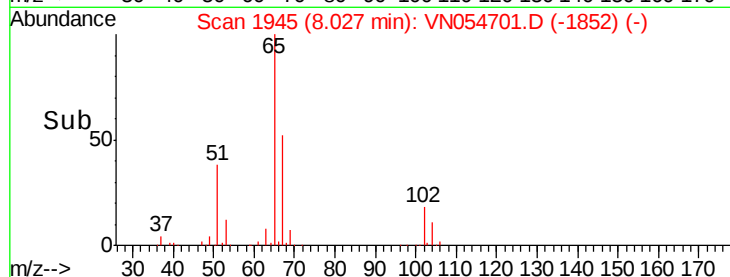
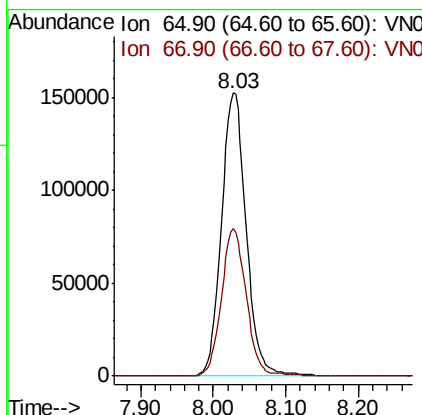
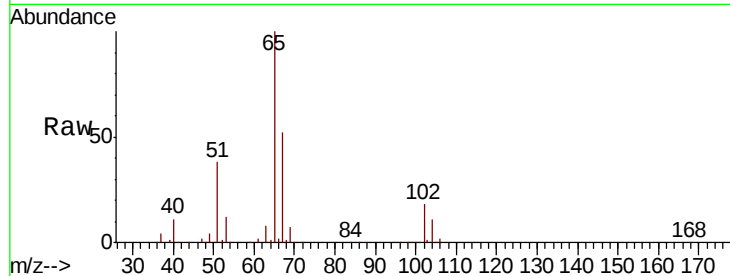




#33
 1,2-Dichloroethane-d4
 Concen: 51.899 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054701.D
 Acq: 26 Mar 2019 16:17

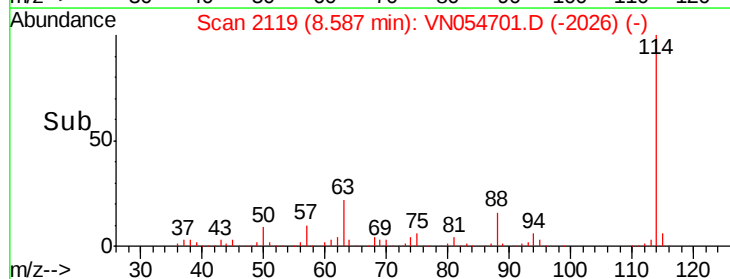
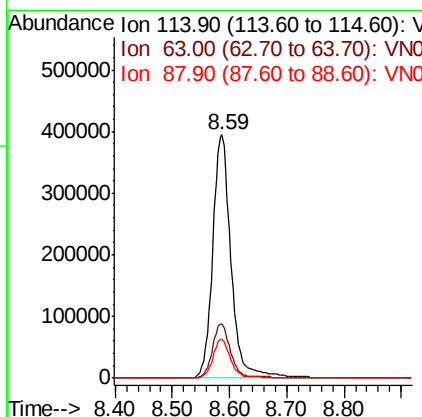
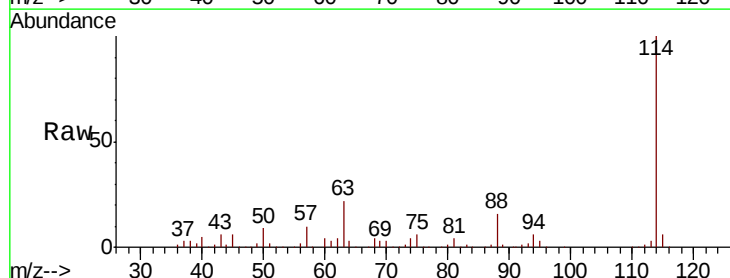
Instrument :
 MSVOA_N
 ClientSampleId :

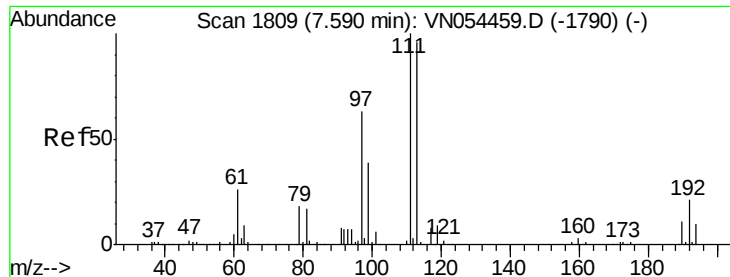
Tot Ion: 65 Resp: 360504
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054701.D
 Acq: 26 Mar 2019 16:17

Tgt Ion: 114 Resp: 883534
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 35.2
 88 15.8 0.0 30.2





#35

Dibromofluoromethane

Concen: 48.564 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054701.D

Acq: 26 Mar 2019 16:17

Instrument :
MSVOA_N
ClientSampled :

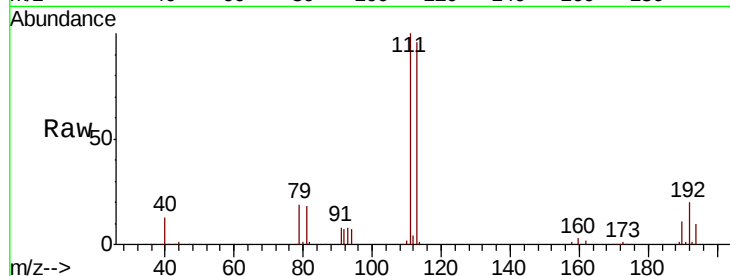
Tot Ion:113 Resp: 276432

Ion Ratio Lower Upper

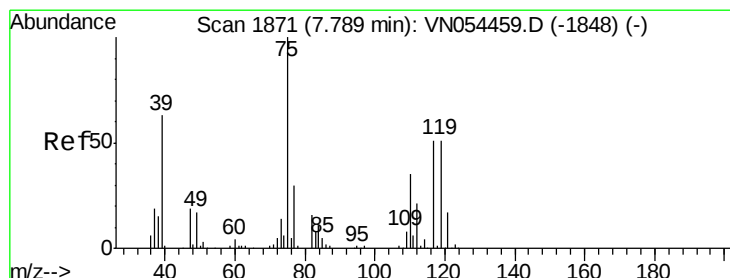
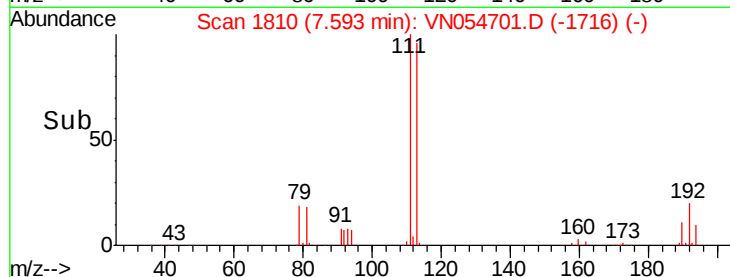
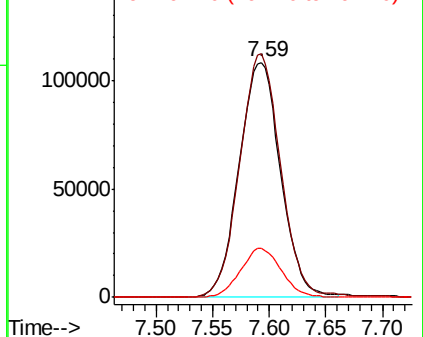
113 100

111 102.5 82.2 123.4

192 20.6 19.2 28.8



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.031 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN054701.D

Acq: 26 Mar 2019 16:17

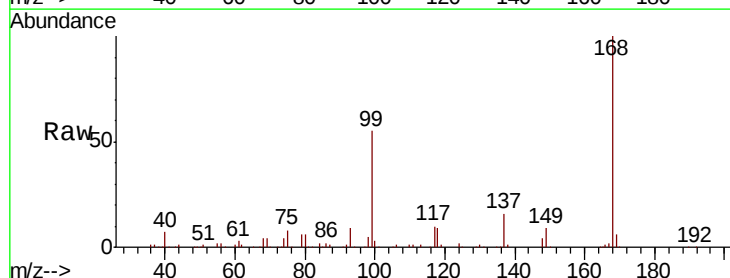
Tgt Ion: 75 Resp: 41565

Ion Ratio Lower Upper

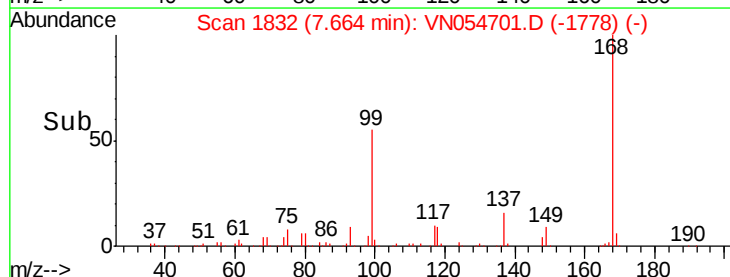
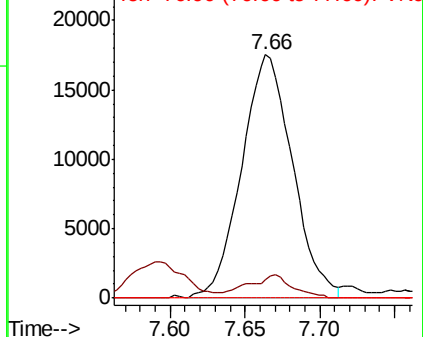
75 100

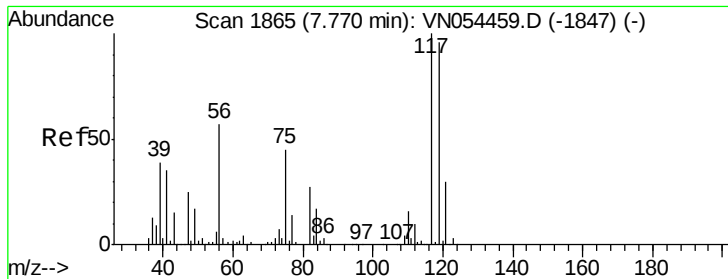
110 8.5 19.1 57.5#

77 0.0 25.0 37.4#



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





#38

Carbon Tetrachloride

Concen: 6.372 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054701.D

Acq: 26 Mar 2019 16:17

Instrument :

MSVOA_N

ClientSampled :

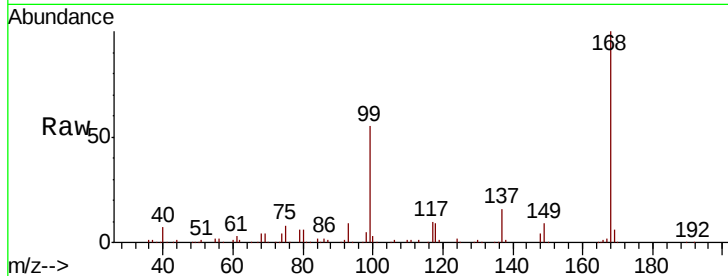
Tot Ion:117 Resp: 51156

Ion Ratio Lower Upper

117 100

119 6.4 76.3 114.5#

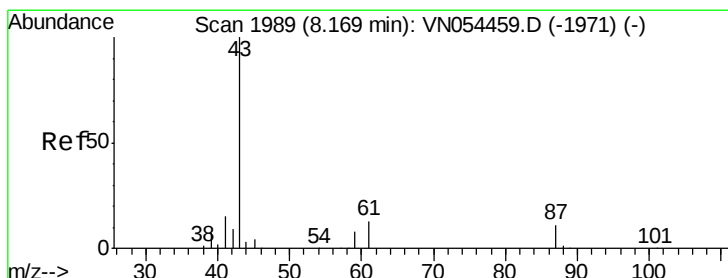
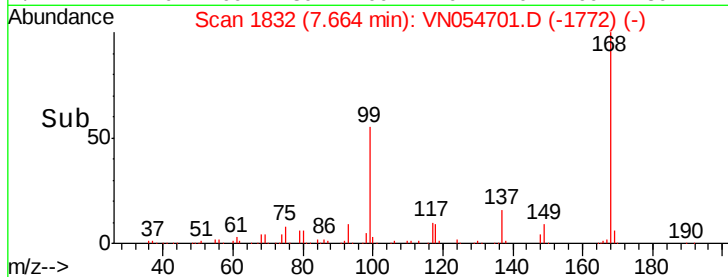
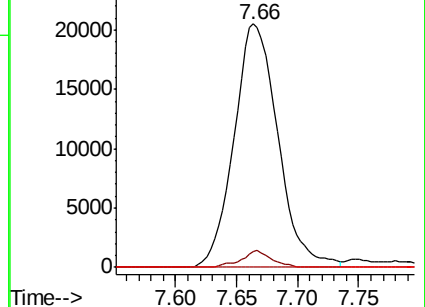
121 0.0 24.6 36.8#



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: 1.506 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN054701.D

Acq: 26 Mar 2019 16:17

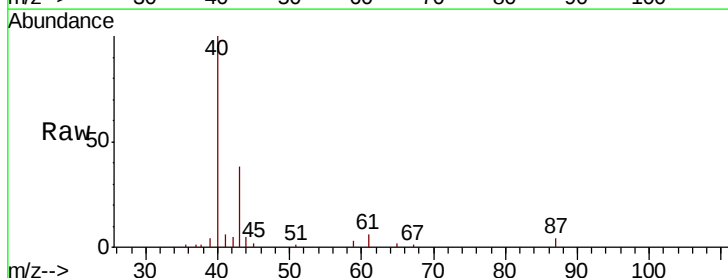
Tgt Ion: 43 Resp: 14945

Ion Ratio Lower Upper

43 100

61 17.8 15.8 23.8

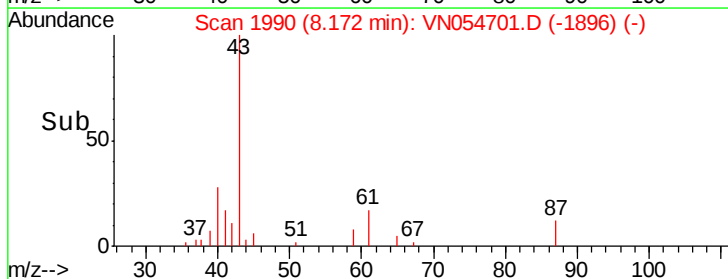
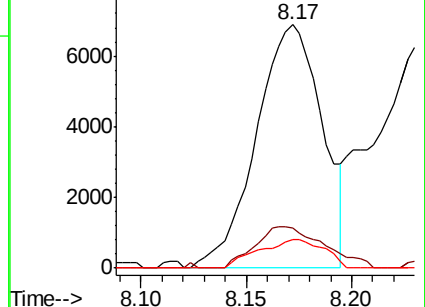
87 11.6 12.0 18.0#

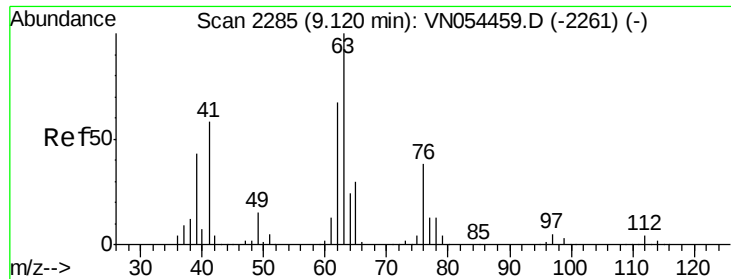


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

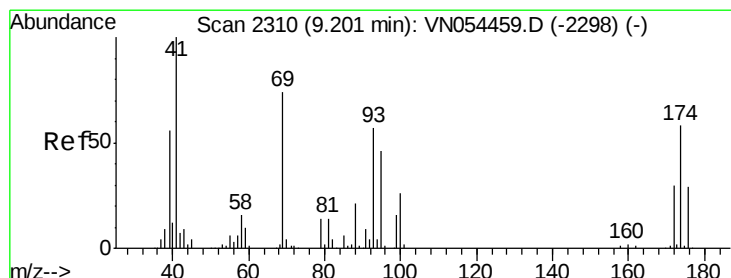
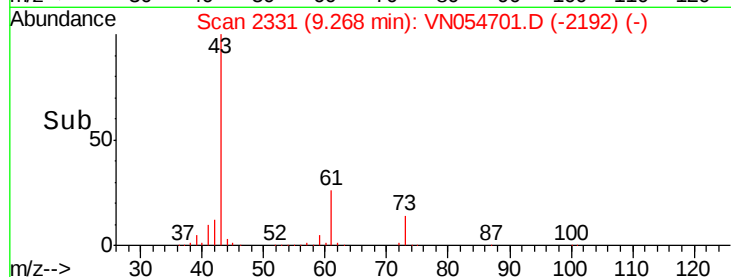
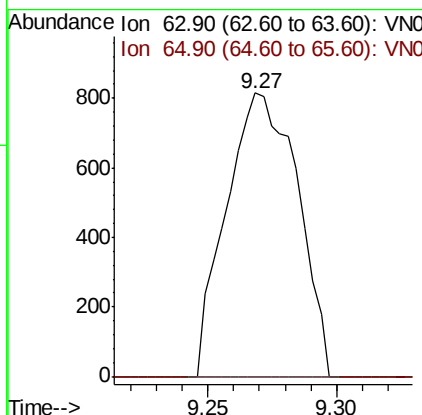
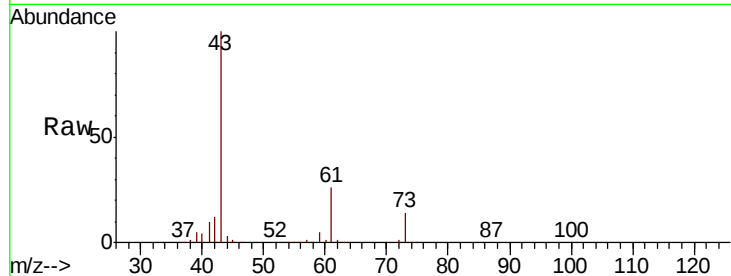




#45
 1,2-Dichloropropane
 Concen: 0.247 ug/l
 RT: 9.27 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN054701.D
 Acq: 26 Mar 2019 16:17

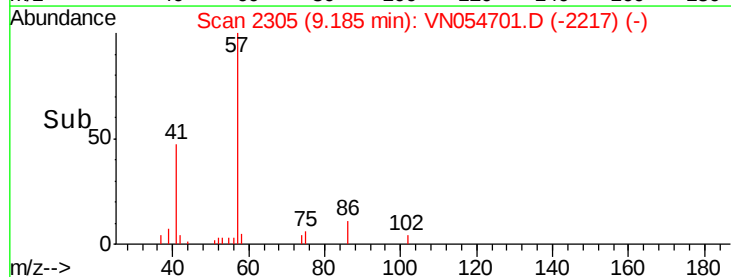
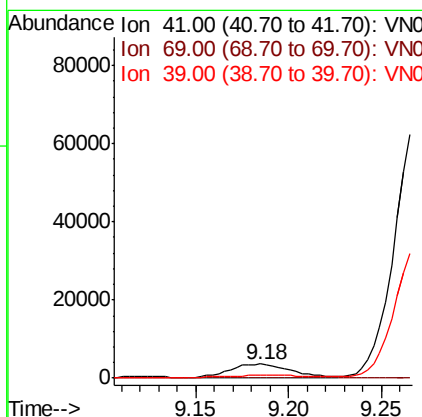
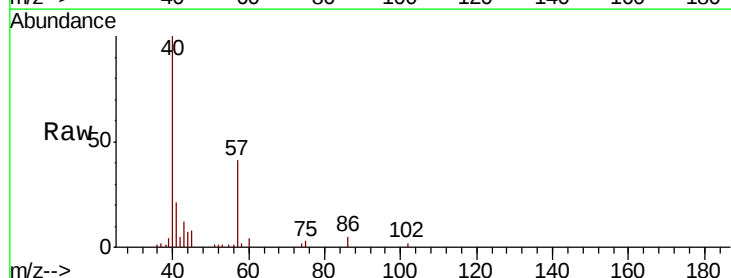
Instrument :
 MSVOA_N
 ClientSampleId :

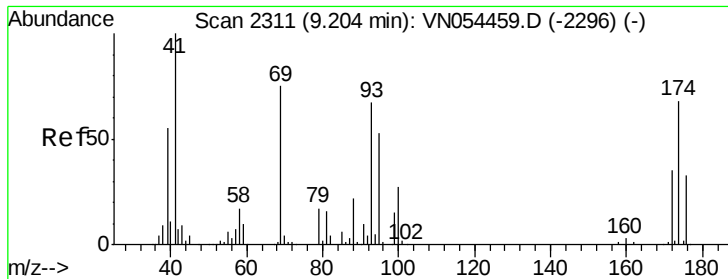
Tot Ion: 63 Resp: 1568
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.6#



#48
 Methyl methacrylate
 Concen: 1.419 ug/l
 RT: 9.18 min Scan# 2305
 Delta R.T. -0.02 min
 Lab File: VN054701.D
 Acq: 26 Mar 2019 16:17

Tgt Ion: 41 Resp: 7642
 Ion Ratio Lower Upper
 41 100
 69 0.0 72.6 108.8#
 39 0.0 47.5 71.3#

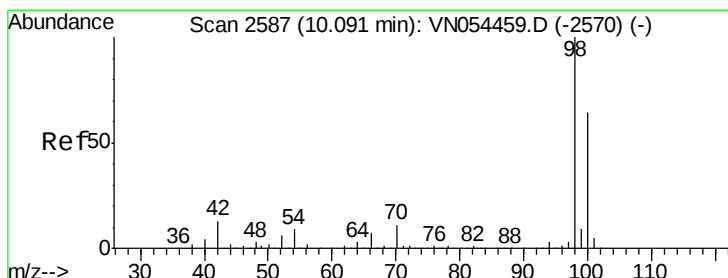
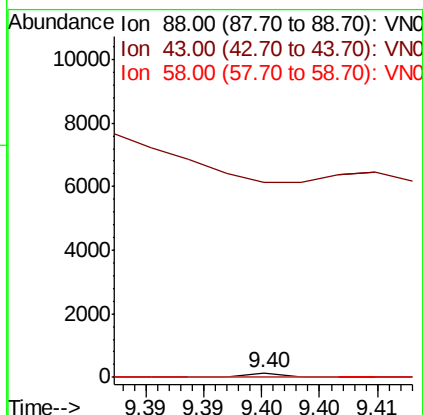
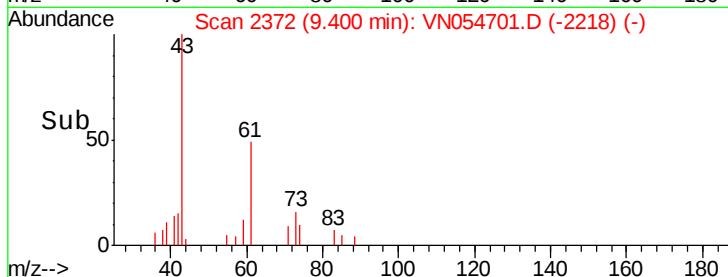
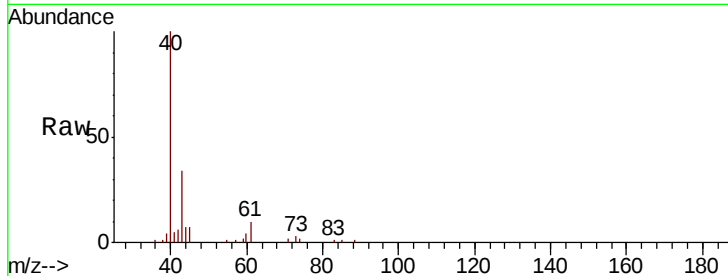




#49
1,4-Dioxane
Concen: 0.482 ug/l
RT: 9.40 min Scan# 2372
Delta R.T. 0.20 min
Lab File: VN054701.D
Acq: 26 Mar 2019 16:17

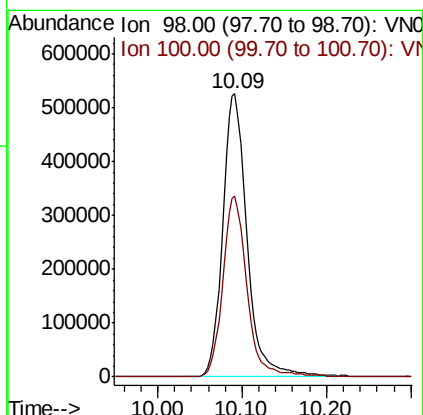
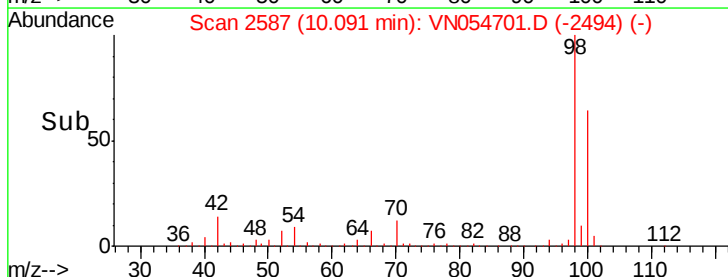
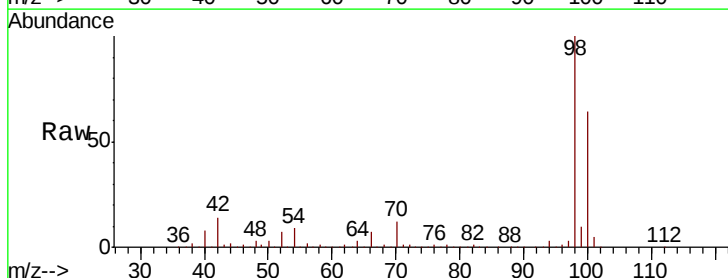
Instrument :
MSVOA_N
ClientSampled :

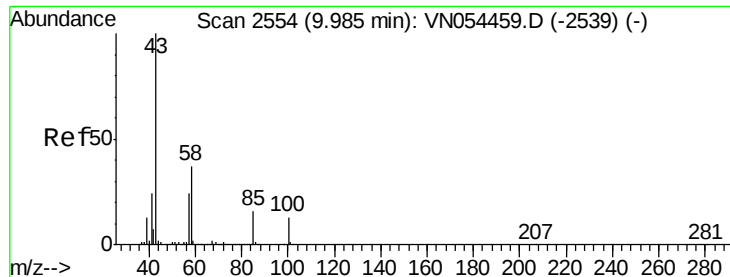
Tot Ion: 88 Resp: 29
Ion Ratio Lower Upper
88 100
43 0.0 24.1 36.1#
58 0.0 50.8 76.2#



#50
Toluene-d8
Concen: 49.267 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN054701.D
Acq: 26 Mar 2019 16:17

Tgt Ion: 98 Resp: 1054266
Ion Ratio Lower Upper
98 100
100 63.6 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 1.011 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN054701.D

Acq: 26 Mar 2019 16:17

Instrument :

MSVOA_N

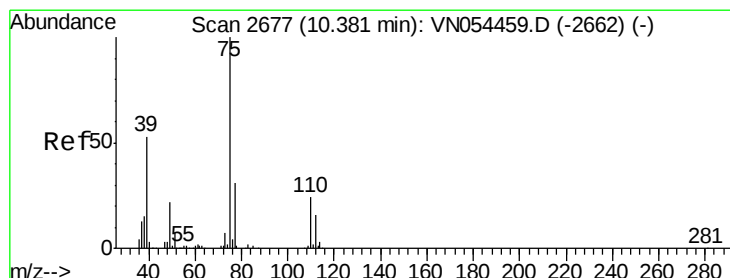
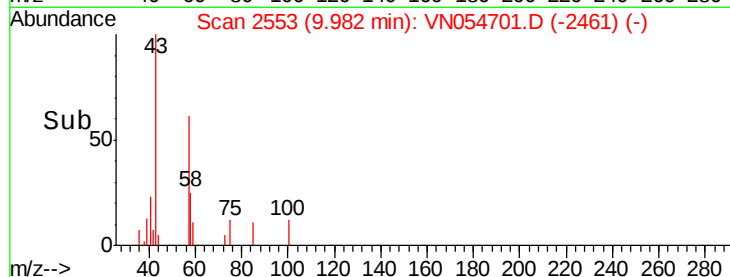
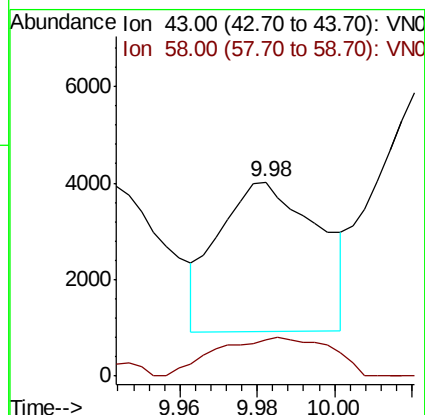
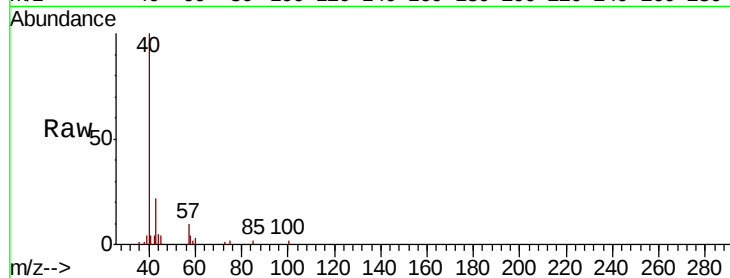
ClientSampleId :

Tot Ion: 43 Resp: 5560

Ion Ratio Lower Upper

43 100

58 29.6 31.8 47.6#



#53

t-1,3-Dichloropropene

Concen: 2.251 ug/l

RT: 10.09 min Scan# 2588

Delta R.T. -0.29 min

Lab File: VN054701.D

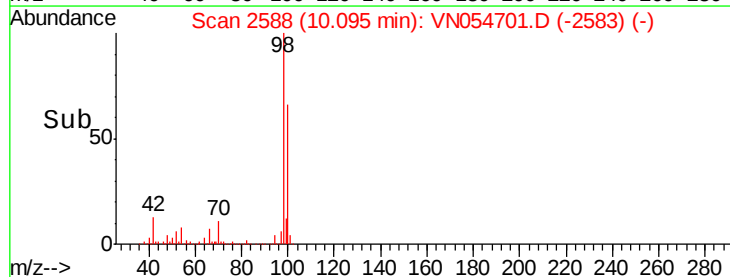
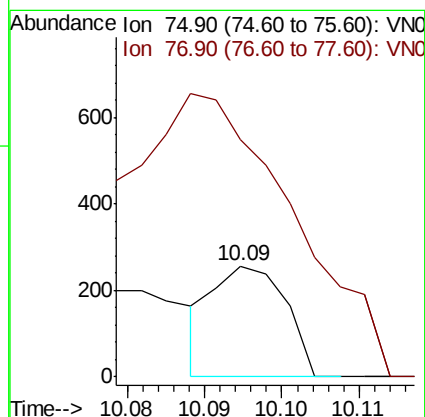
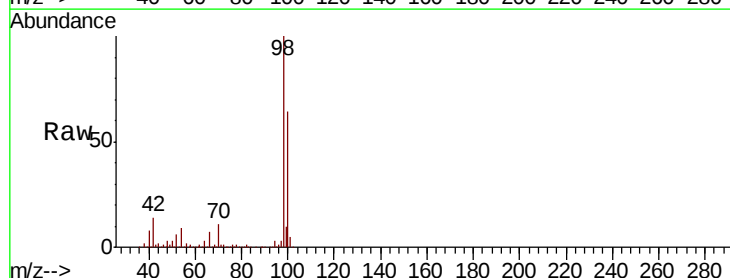
Acq: 26 Mar 2019 16:17

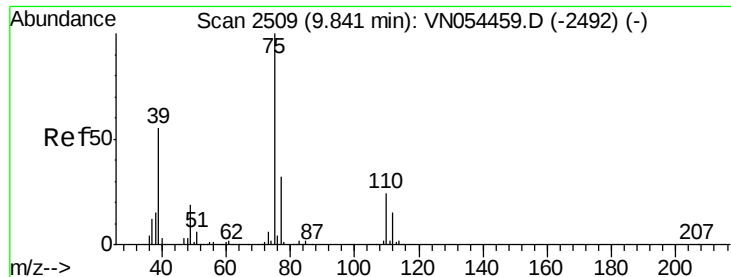
Tgt Ion: 75 Resp: 167

Ion Ratio Lower Upper

75 100

77 132.8 25.8 38.8#



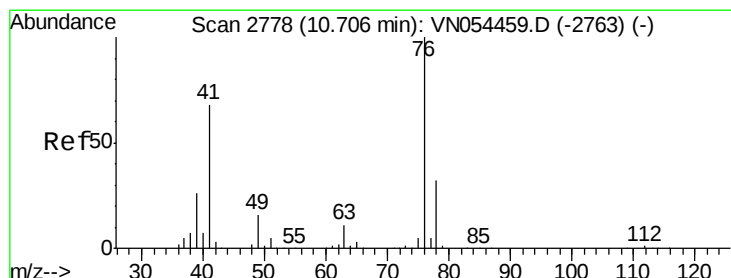
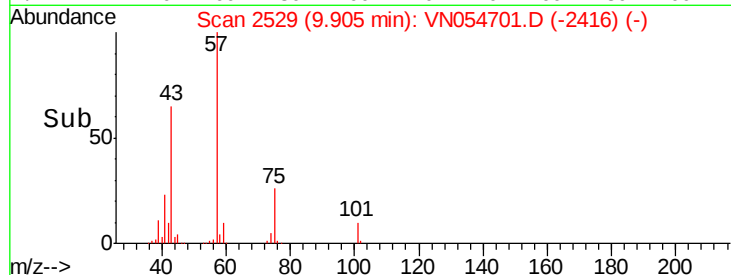
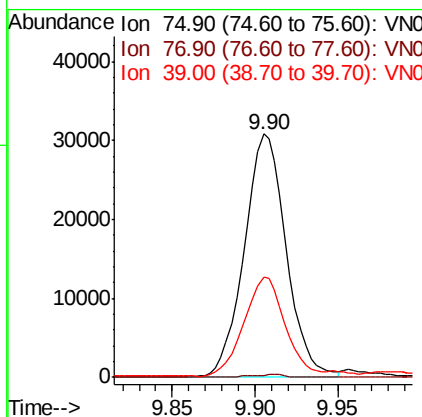
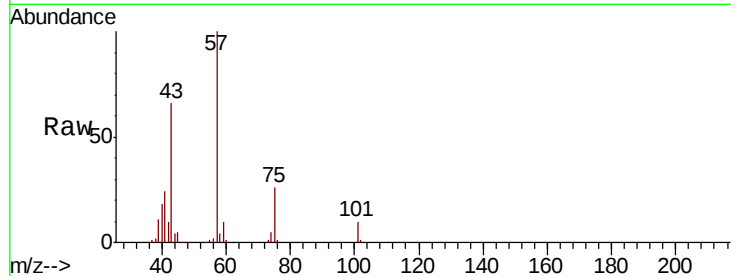


#54

cis-1,3-Dichloropropene
 Concen: 6.029 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.06 min
 Lab File: VN054701.D
 Acq: 26 Mar 2019 16:17

Instrument :
 MSVOA_N
 ClientSampleId :

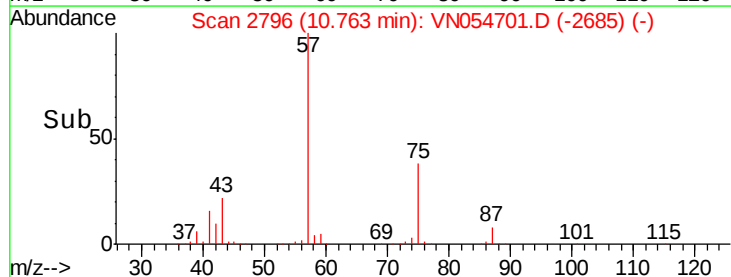
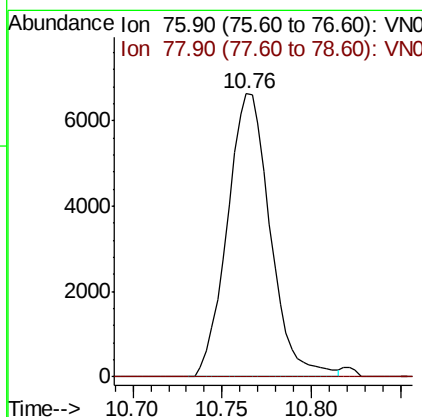
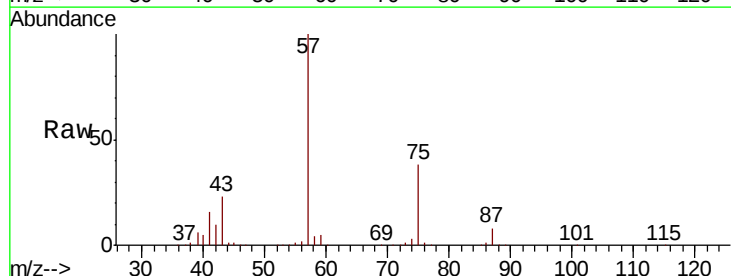
Tot Ion: 75 Resp: 54292
 Ion Ratio Lower Upper
 75 100
 77 0.9 25.4 38.0#
 39 40.3 37.2 55.8

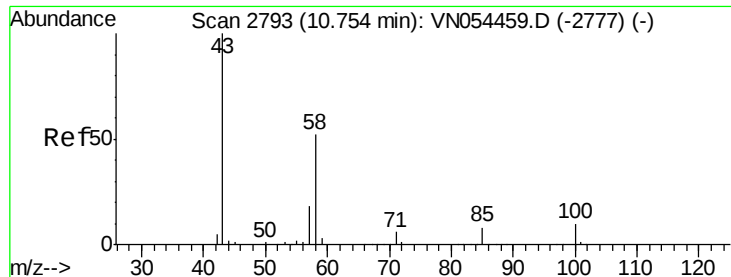


#57

1,3-Dichloropropane
 Concen: 1.224 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN054701.D
 Acq: 26 Mar 2019 16:17

Tgt Ion: 76 Resp: 11109
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#

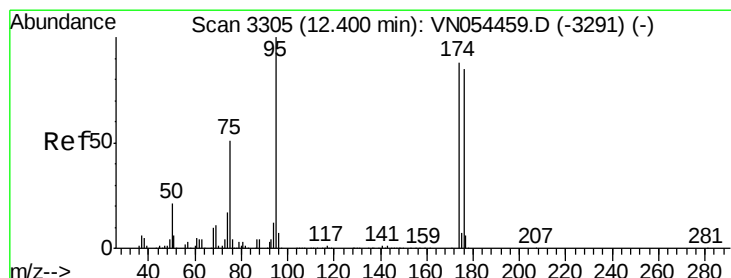
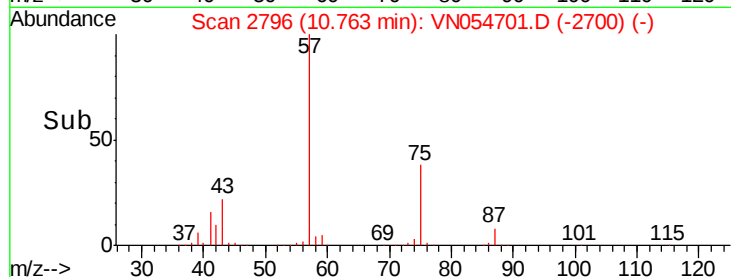
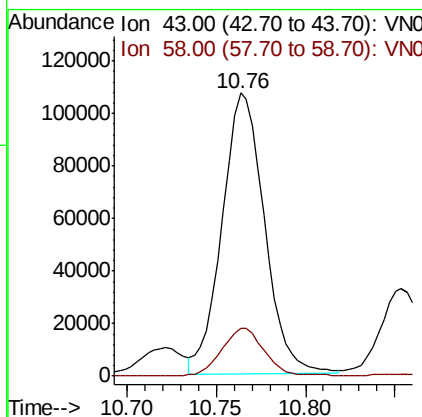
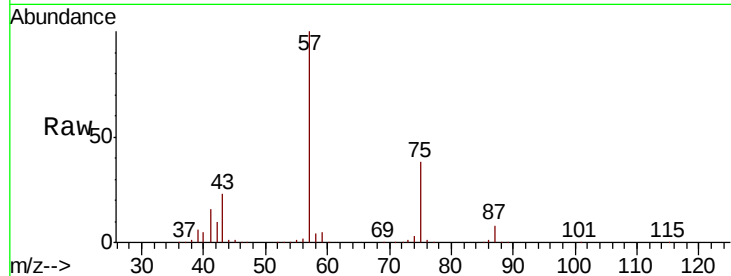




#59
2-Hexanone
Concen: 49.412 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN054701.D
Acq: 26 Mar 2019 16:17

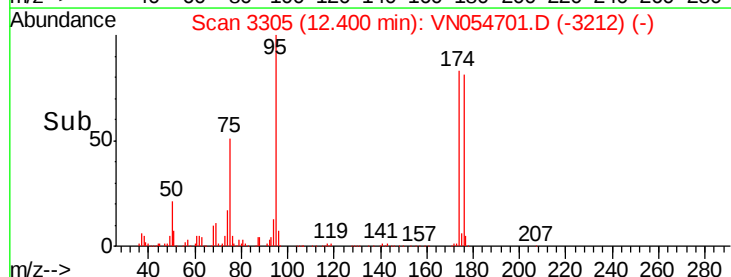
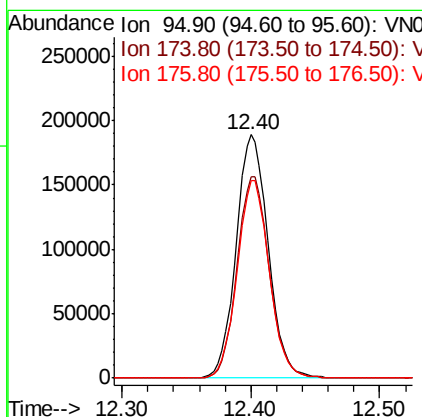
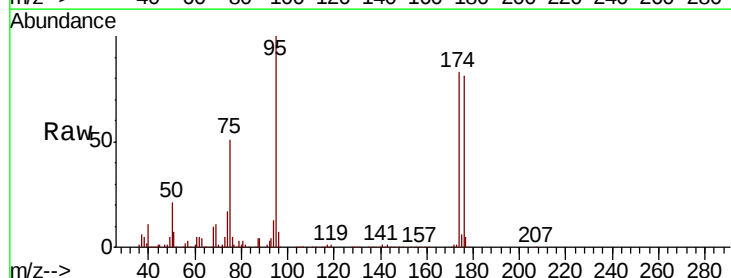
Instrument :
MSVOA_N
ClientSampled :

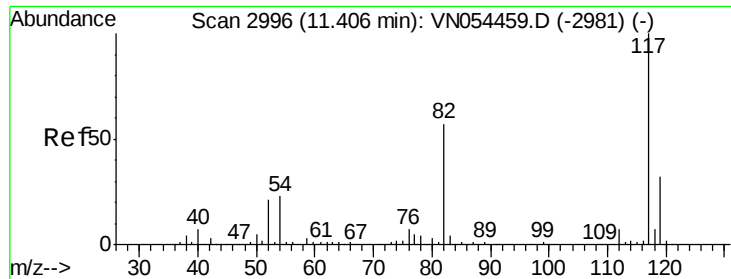
Tot Ion: 43 Resp: 177496
Ion Ratio Lower Upper
43 100
58 17.3 28.0 83.9#



#62
4-Bromofluorobenzene
Concen: 44.777 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054701.D
Acq: 26 Mar 2019 16:17

Tgt Ion: 95 Resp: 326053
Ion Ratio Lower Upper
95 100
174 83.6 0.0 191.0
176 81.4 0.0 187.4

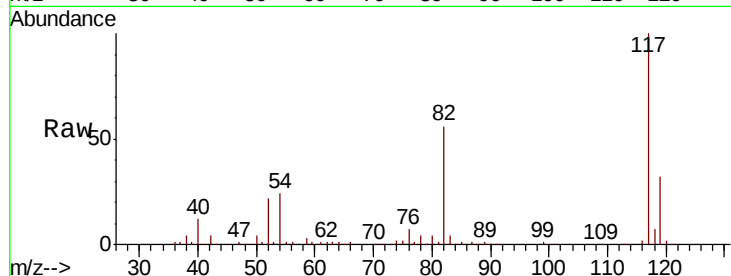




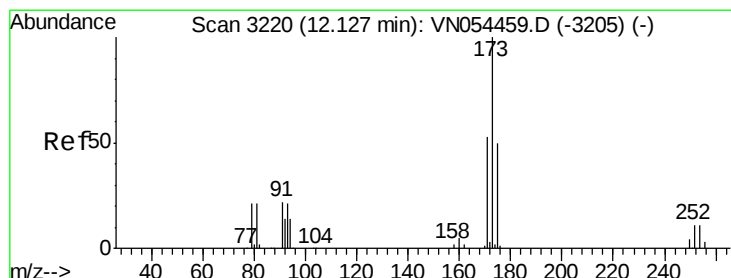
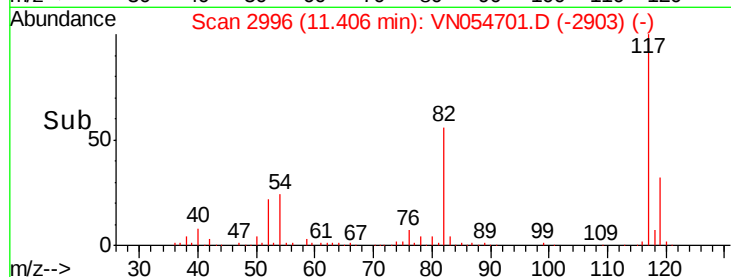
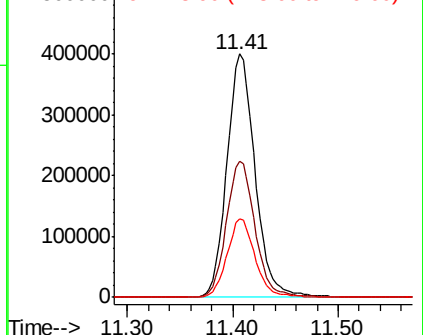
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054701.D
Acq: 26 Mar 2019 16:17

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 740889
Ion Ratio Lower Upper
117 100
82 56.0 40.0 60.0
119 32.5 25.8 38.6

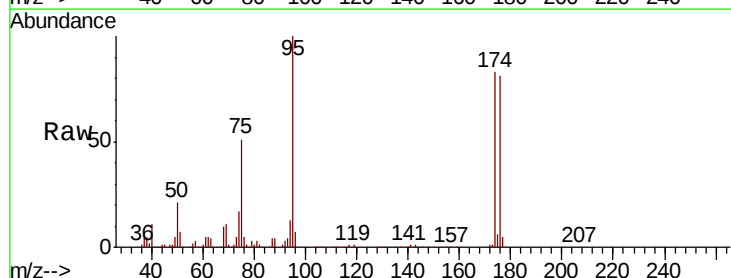


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

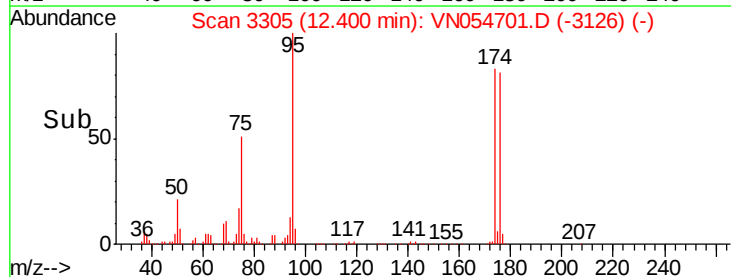
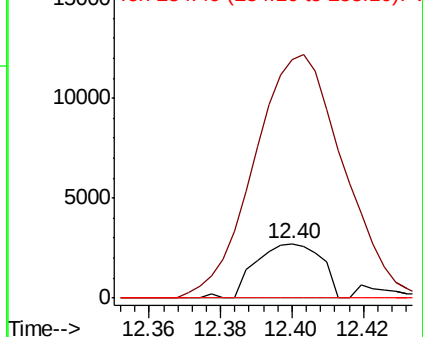


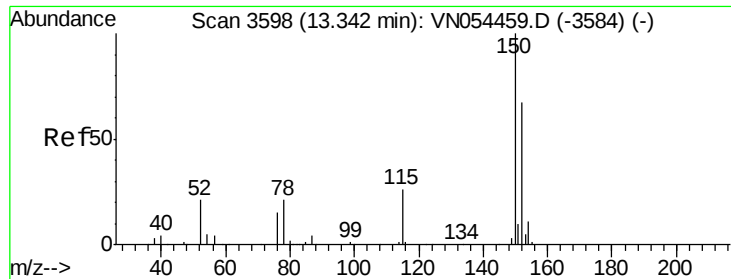
#71
Bromoform
Concen: 3.106 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN054701.D
Acq: 26 Mar 2019 16:17

Tgt Ion:173 Resp: 3454
Ion Ratio Lower Upper
173 100
175 521.0 24.4 73.2#
254 0.0 0.1 0.1#



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054701.D

Acq: 26 Mar 2019 16:17

Instrument :

MSVOA_N

ClientSampleId :

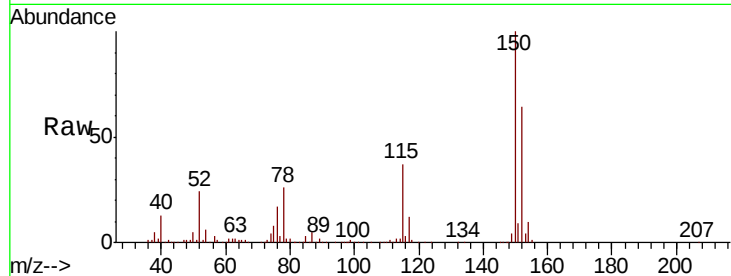
Tot Ion:152 Resp: 275931

Ion Ratio Lower Upper

152 100

115 57.9 27.2 81.6

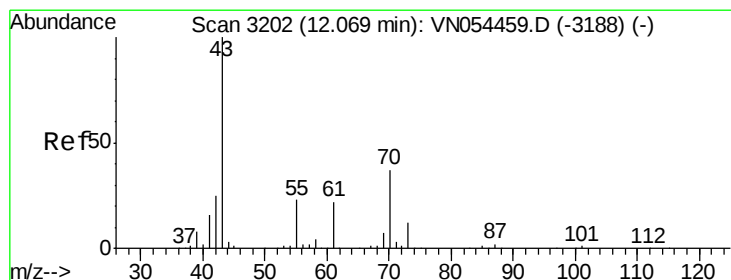
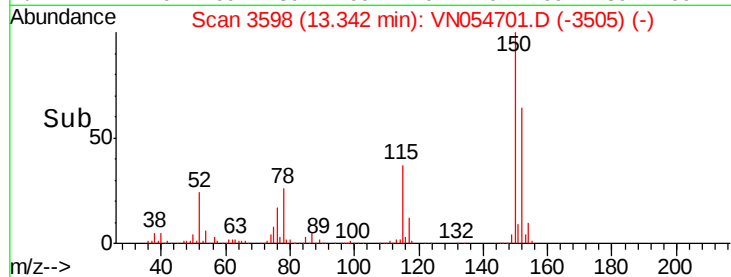
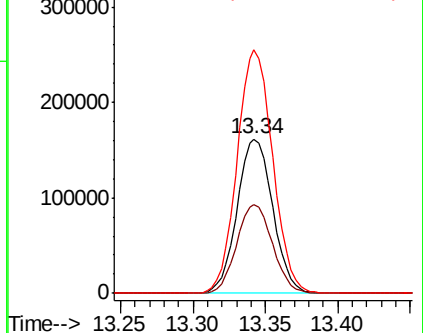
150 157.6 0.0 349.2



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: 2.952 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN054701.D

Acq: 26 Mar 2019 16:17

Tgt Ion: 43 Resp: 18874

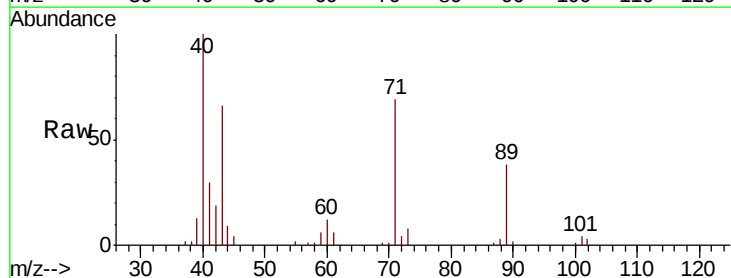
Ion Ratio Lower Upper

43 100

70 1.1 35.4 53.0#

55 4.2 19.8 29.6#

61 10.4 19.8 29.6#

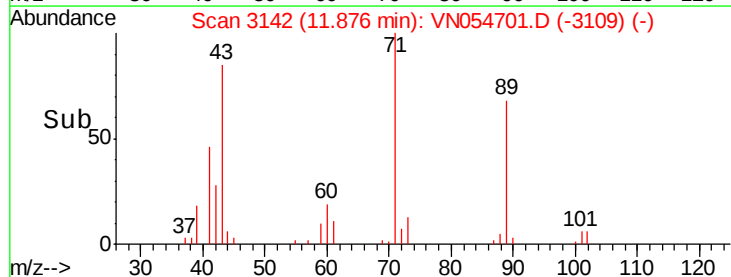
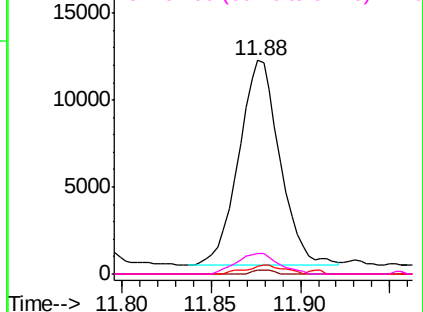


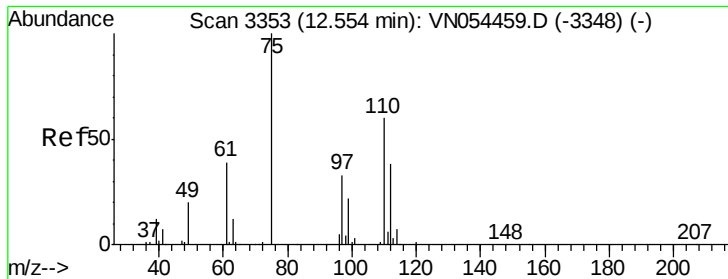
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 38.399 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054701.D

Acq: 26 Mar 2019 16:17

Instrument :

MSVOA_N

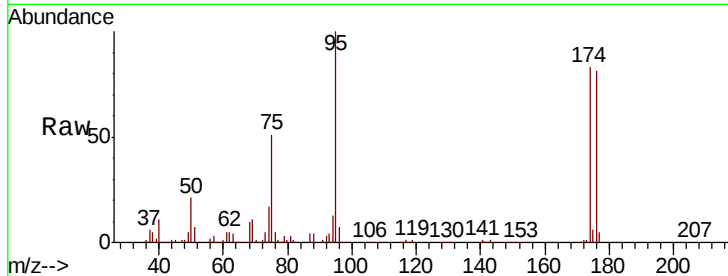
ClientSampled :

Tot Ion: 75 Resp: 168133

Ion Ratio Lower Upper

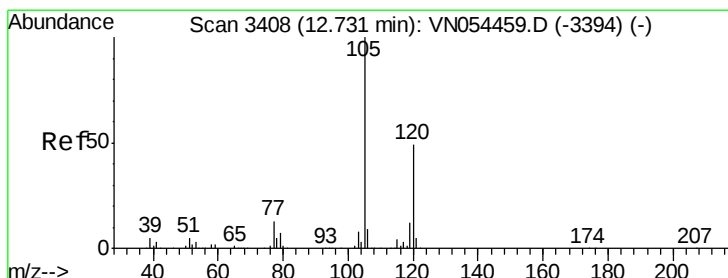
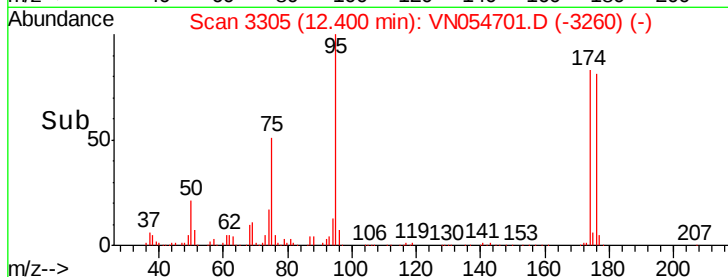
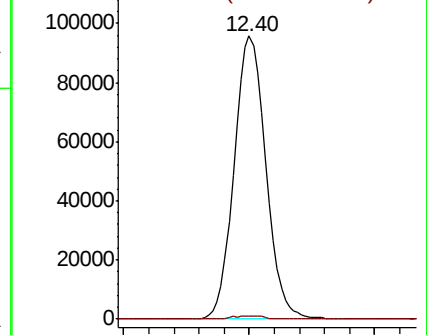
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#80

1,3,5-Trimethylbenzene

Concen: 0.286 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN054701.D

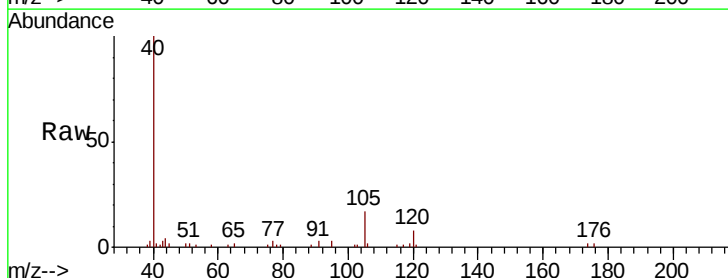
Acq: 26 Mar 2019 16:17

Tgt Ion:105 Resp: 5206

Ion Ratio Lower Upper

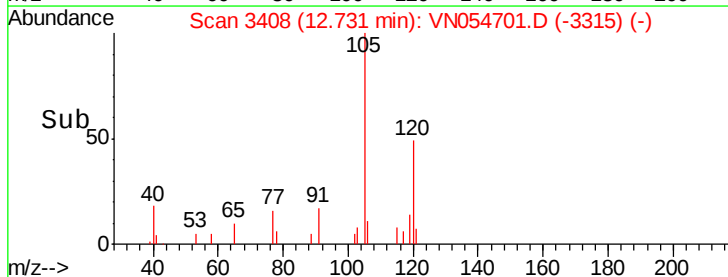
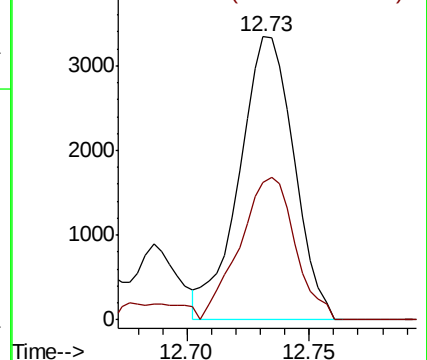
105 100

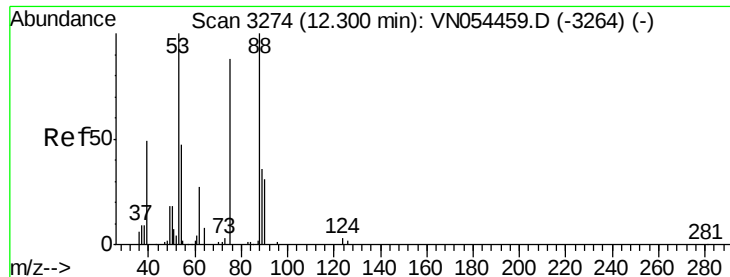
120 50.7 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 127.149 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054701.D

Acq: 26 Mar 2019 16:17

Instrument :

MSVOA_N

ClientSampleId :

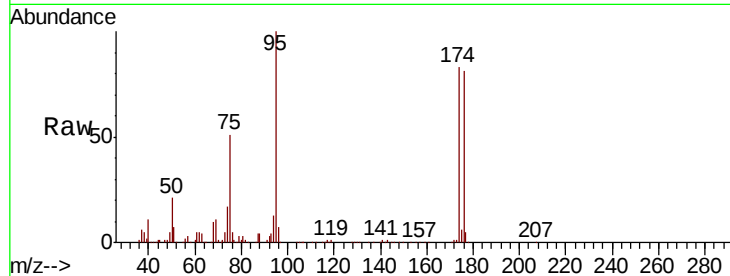
Tot Ion: 75 Resp: 168133

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

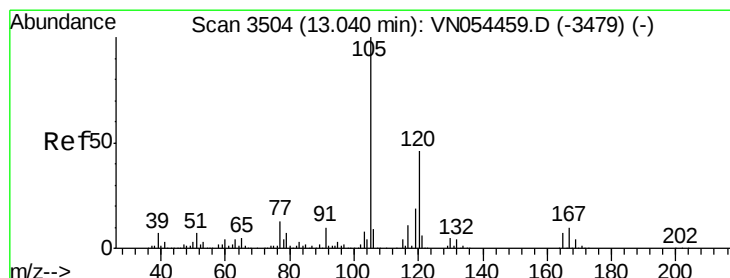
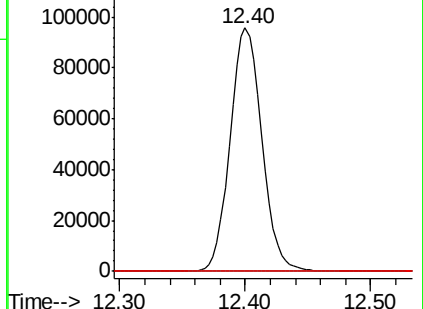
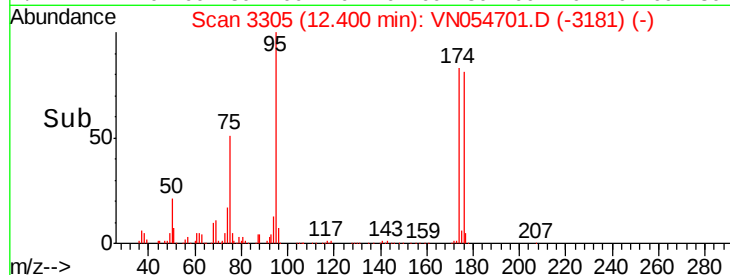
89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VN054701.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN054701.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN054701.D (-3181) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.230 ug/l

RT: 13.04 min Scan# 3503

Delta R.T. -0.00 min

Lab File: VN054701.D

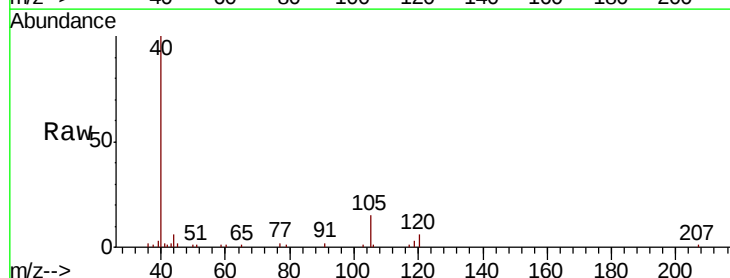
Acq: 26 Mar 2019 16:17

Tgt Ion: 105 Resp: 4106

Ion Ratio Lower Upper

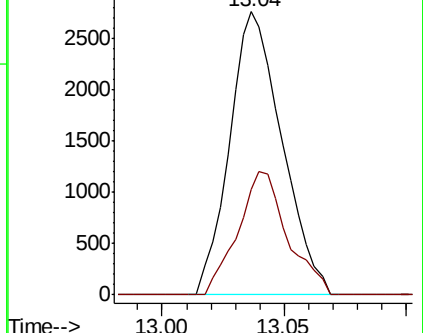
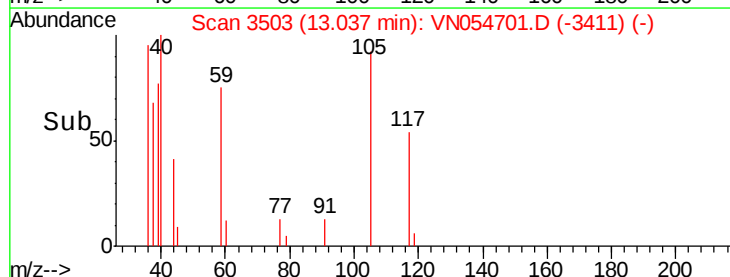
105 100

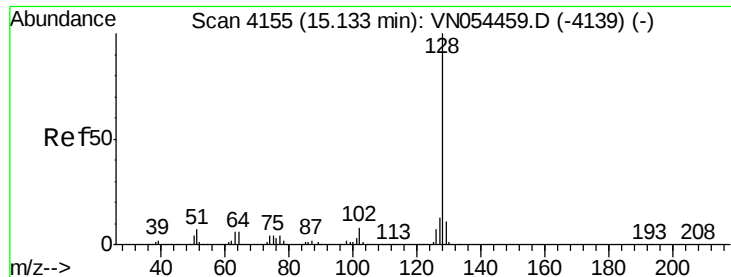
120 41.1 23.4 70.3



Abundance Ion 105.00 (104.70 to 105.70): VN054701.D (-3411) (-)

Ion 120.00 (119.70 to 120.70): VN054701.D (-3411) (-)





#95

Naphthalene

Concen: 0.451 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054701.D

Acq: 26 Mar 2019 16:17

Instrument :

MSVOA_N

ClientSampleId :

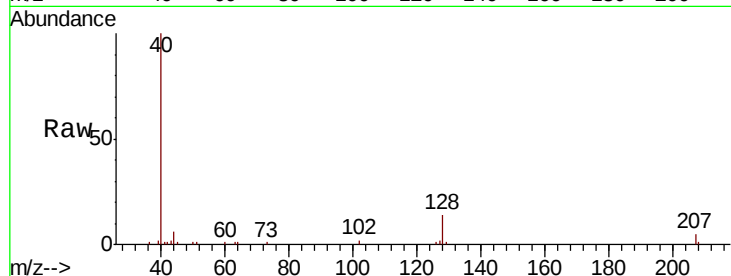
Tot Ion:128 Resp: 4442

Ion Ratio Lower Upper

128 100

127 12.1 10.1 15.1

129 10.4 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

