

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071519\
 Data File : VN056747.D
 Acq On : 16 Jul 2019 5:36
 Operator : JC/SP
 Sample : K3620-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 55 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CL-01-071219-D

Quant Time: Jul 16 06:03:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 01:25:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	262008	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	473112	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	509095	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	211365	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	155614	53.69	ug/l	0.00
Spiked Amount 50.000			Recovery =	107.38%		
35) Dibromofluoromethane	7.59	113	141480	48.05	ug/l	0.00
Spiked Amount 50.000			Recovery =	96.10%		
50) Toluene-d8	10.09	98	596503	52.46	ug/l	0.00
Spiked Amount 50.000			Recovery =	104.92%		
62) 4-Bromofluorobenzene	12.40	95	228804	59.66	ug/l	0.00
Spiked Amount 50.000			Recovery =	119.32%		

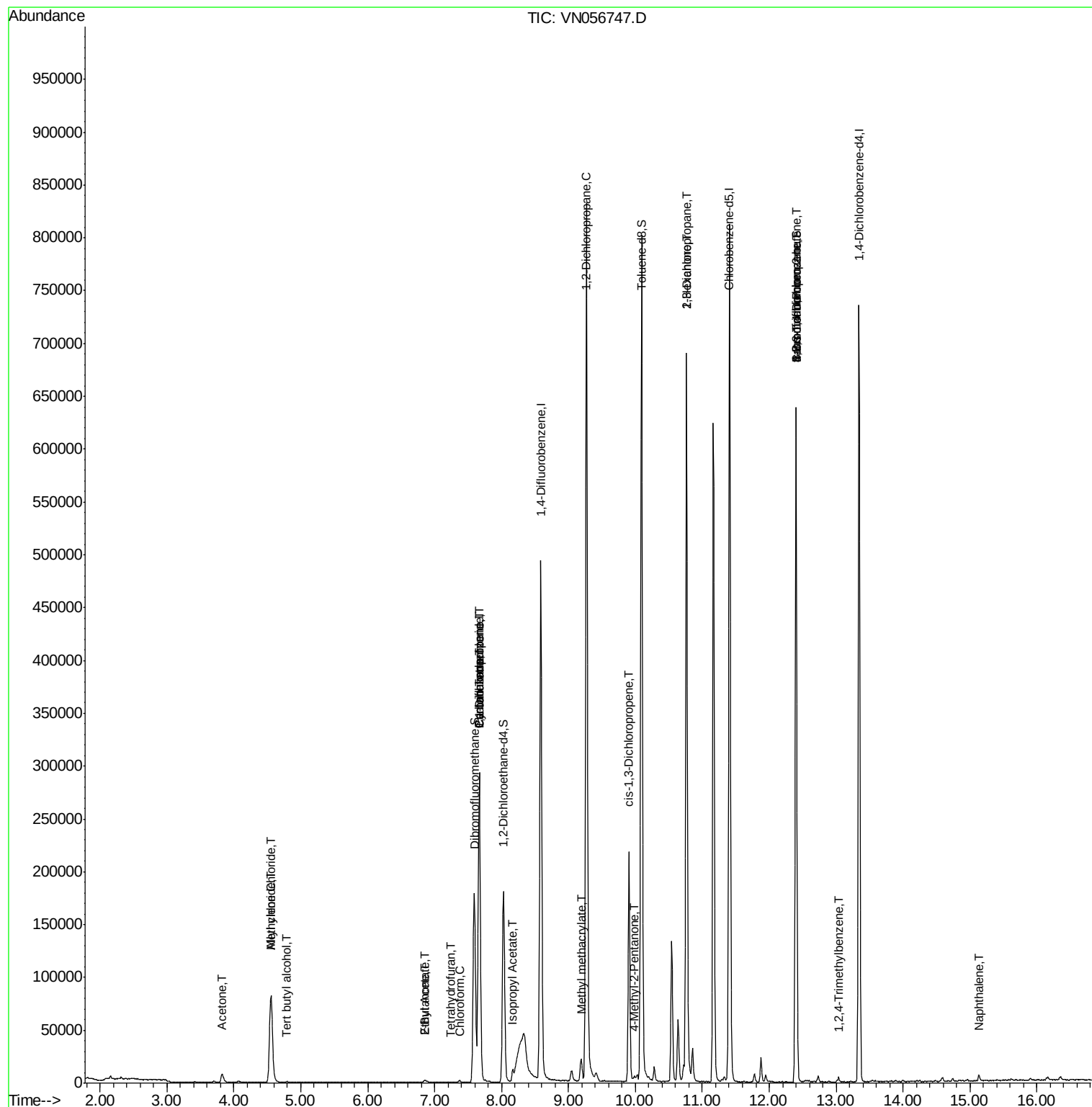
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.79	59	869	1.801	ug/l #	73
14) Allyl chloride	4.55	41	2682	0.630	ug/l #	29
16) Acetone	3.83	43	15263	11.428	ug/l	98
18) Methyl Acetate	4.35	43	1048	Below Cal	#	52
20) Methylene Chloride	4.56	84	67426	23.102	ug/l	96
25) 2-Butanone	6.85	43	5096	2.610	ug/l	98
29) Tetrahydrofuran	7.23	42	618	0.485	ug/l #	38
30) Chloroform	7.37	83	2142	0.439	ug/l	93
31) Cyclohexane	7.67	56	4370	0.943	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	16918	3.864	ug/l #	49
37) Ethyl Acetate	6.85	43	5096	1.181	ug/l #	68
38) Carbon Tetrachloride	7.67	117	22541	5.490	ug/l #	17
43) Isopropyl Acetate	8.17	43	12422	1.831	ug/l #	92
45) 1,2-Dichloropropane	9.27	63	945	0.265	ug/l #	45
48) Methyl methacrylate	9.18	41	7495	2.285	ug/l #	21
51) 4-Methyl-2-Pentanone	9.99	43	4101	0.933	ug/l #	79
54) cis-1,3-Dichloropropene	9.90	75	40716	8.012	ug/l #	60
57) 1,3-Dichloropropane	10.76	76	7351	1.347	ug/l #	42
59) 2-Hexanone	10.76	43	103810	32.929	ug/l #	52
71) Bromoform	12.40	173	1597	0.548	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	106640	23.068	ug/l #	100
79) 2-Chlorotoluene	12.67	91	30	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	106640	71.241	ug/l #	13
83) tert-Butylbenzene	13.04	119	331	Below Cal	#	81
84) 1,2,4-Trimethylbenzene	13.04	105	2958	0.210	ug/l	99
95) Naphthalene	15.13	128	5965	5.005	ug/l	97

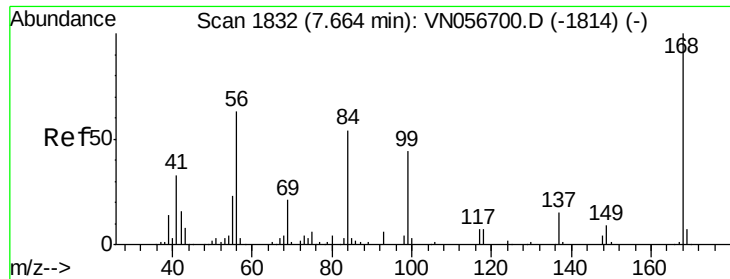
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jul 16 01:25:25 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: VN056747.D

Acq: 16 Jul 2019 5:36

Instrument :

MSVOA_N

ClientSampleId :

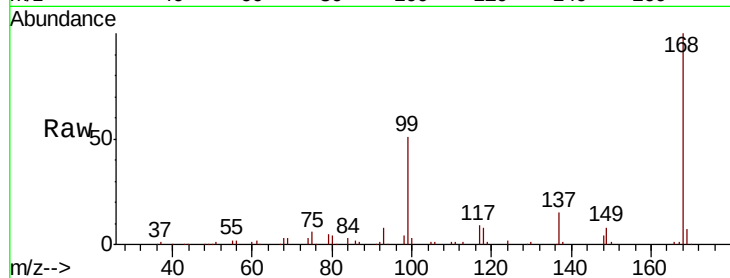
CL-01-071219-D

Tot Ion:168 Resp: 262008

Ion Ratio Lower Upper

168 100

99 50.6 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

120000

100000

80000

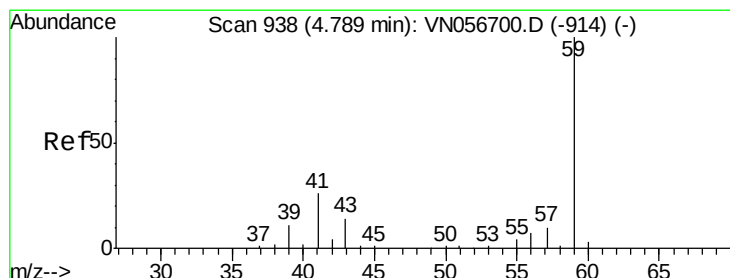
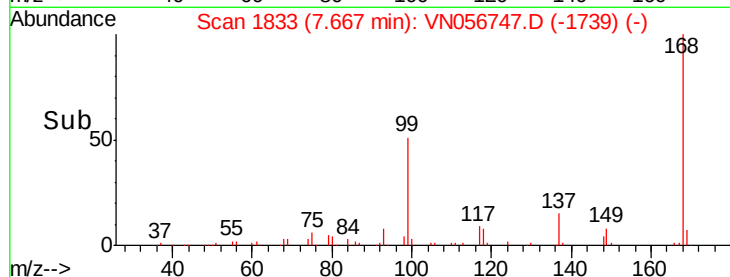
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.801 ug/l

RT: 4.79 min Scan# 939

Delta R.T. 0.00 min

Lab File: VN056747.D

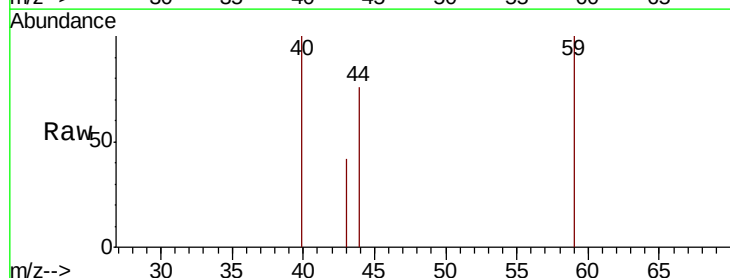
Acq: 16 Jul 2019 5:36

Tgt Ion: 59 Resp: 869

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.79

500

400

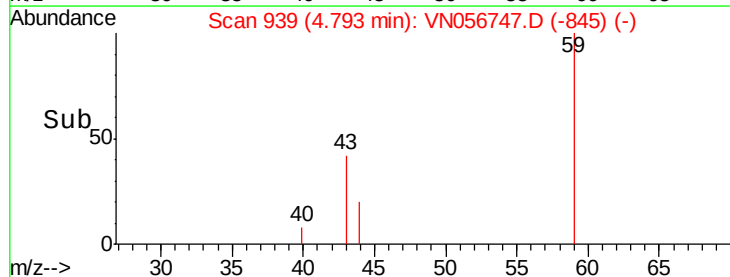
300

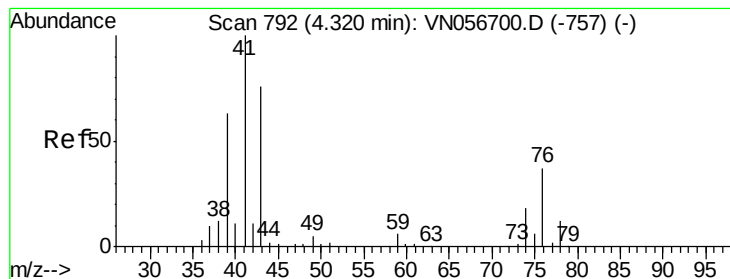
200

100

0

Time-->





#14

Allvl chloride

Concen: 0.630 ug/l

RT: 4.55 min Scan# 863

Delta R.T. 0.23 min

Lab File: VN056747.D

Acq: 16 Jul 2019 5:36

Instrument :

MSVOA_N

ClientSampleId :

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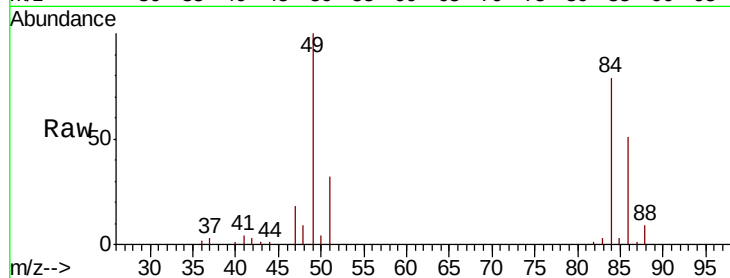
Tot Ion: 41 Resp: 2682

Ion Ratio Lower Upper

41 100

39 0.0 46.9 70.3#

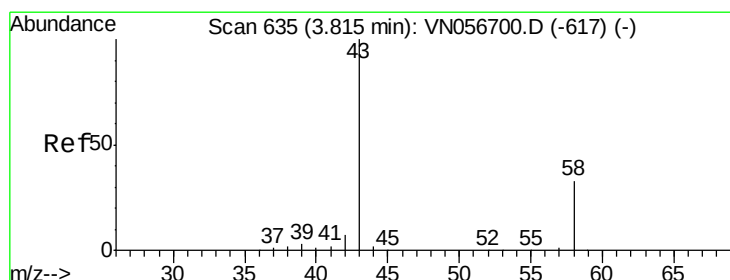
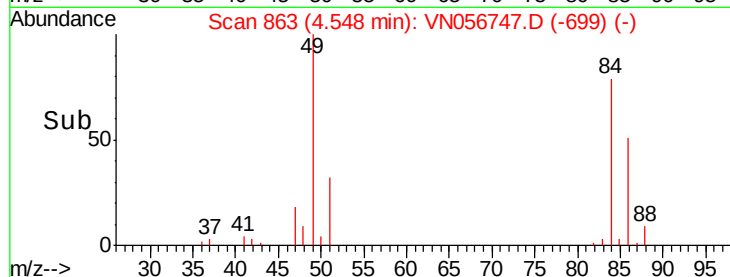
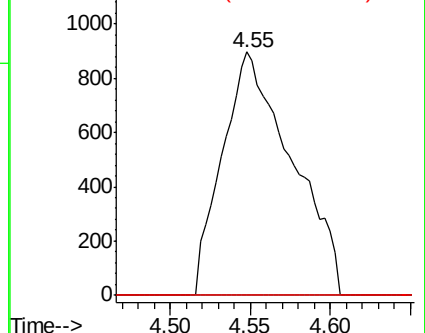
76 0.0 26.5 39.7#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0



#16

Acetone

Concen: 11.428 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN056747.D

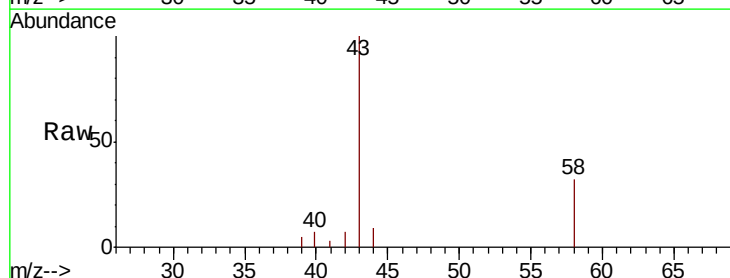
Acq: 16 Jul 2019 5:36

Tgt Ion: 43 Resp: 15263

Ion Ratio Lower Upper

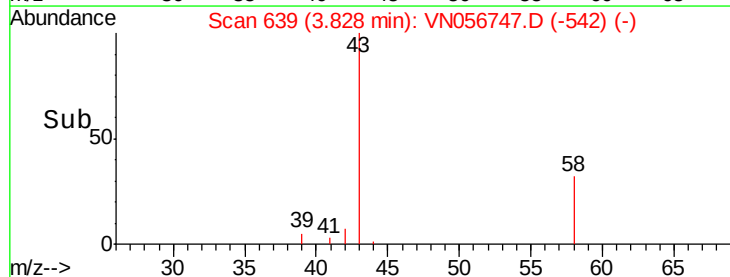
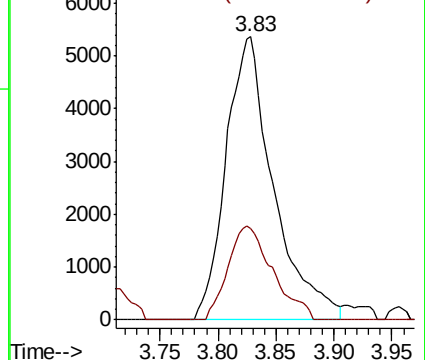
43 100

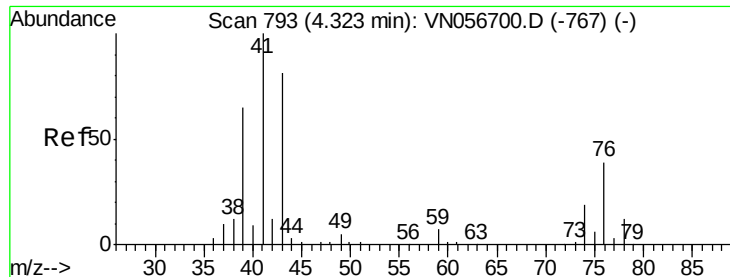
58 32.3 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

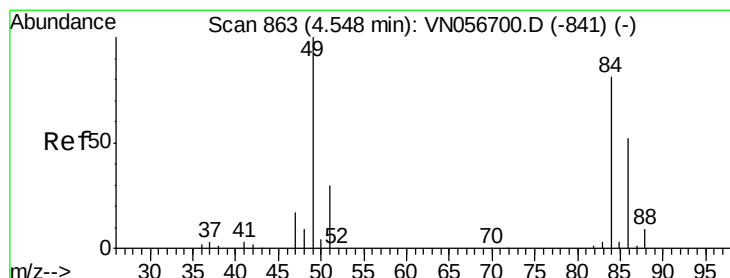
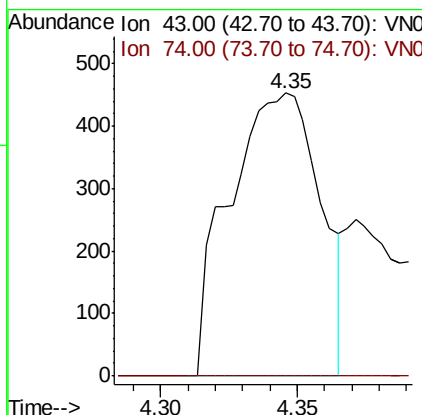
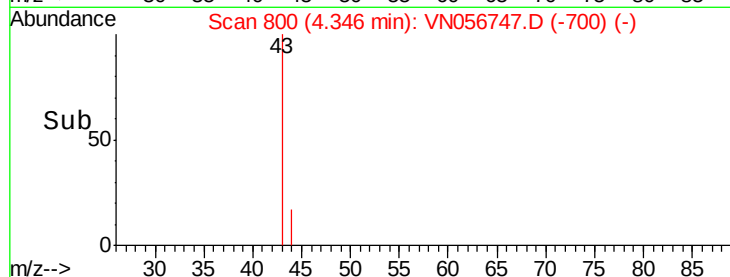
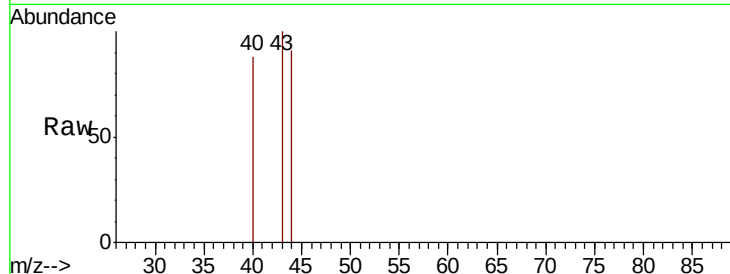




#18
Methyl Acetate
Concen: Below Cal
RT: 4.35 min Scan# 800
Delta R.T. 0.02 min
Lab File: VN056747.D
Acq: 16 Jul 2019 5:36

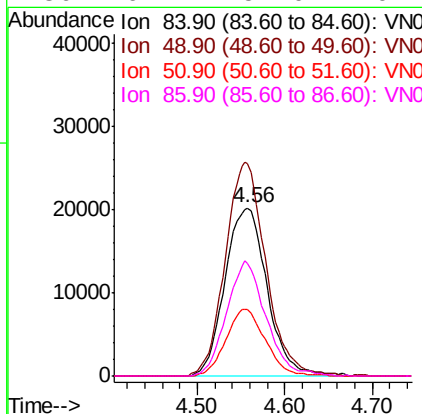
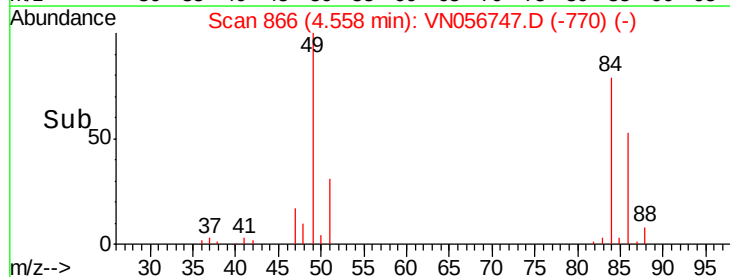
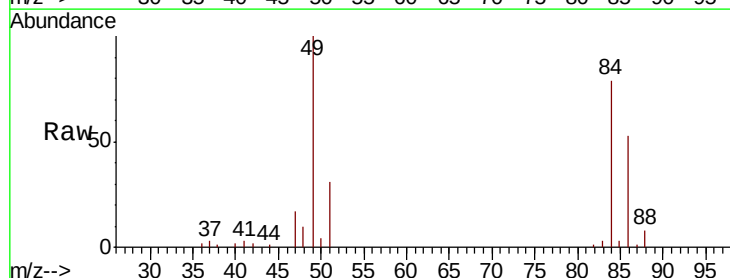
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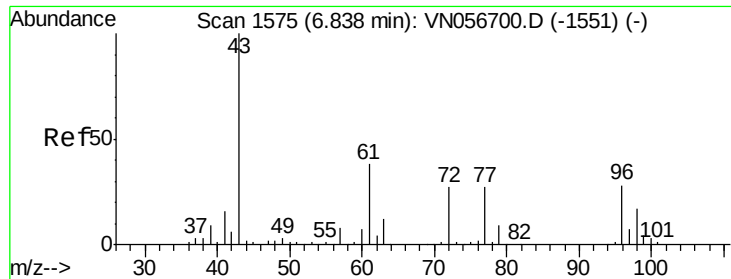
Tot Ion: 43 Resp: 1048
Ion Ratio Lower Upper
43 100
74 0.0 18.9 28.3#



#20
Methylene Chloride
Concen: 23.102 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN056747.D
Acq: 16 Jul 2019 5:36

Tgt Ion: 84 Resp: 67426
Ion Ratio Lower Upper
84 100
49 126.2 98.2 147.4
51 39.6 29.6 44.4
86 67.2 51.0 76.4





#25

2-Butanone

Concen: 2.610 ug/l

RT: 6.85 min Scan# 1580

Delta R.T. 0.02 min

Lab File: VN056747.D

Acq: 16 Jul 2019 5:36

Instrument :

MSVOA_N

ClientSampleId :

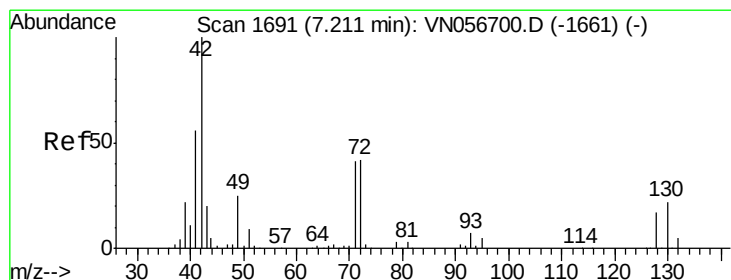
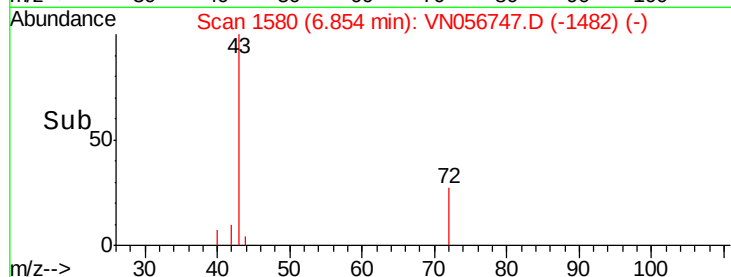
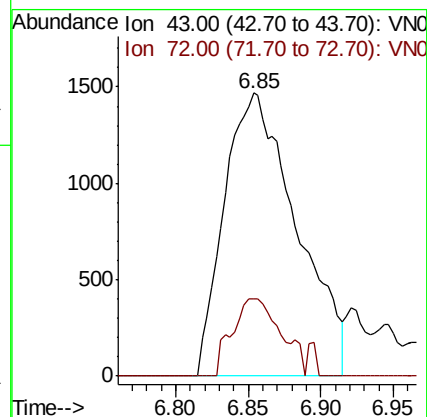
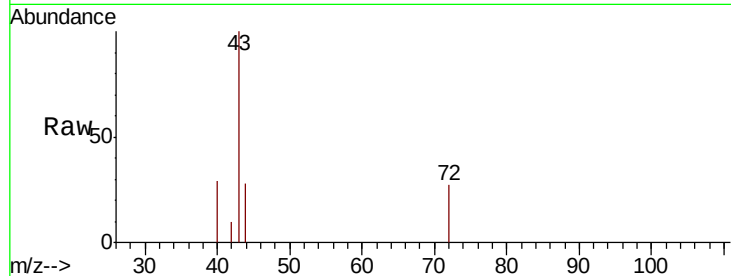
CL-01-071219-D

Tot Ion: 43 Resp: 5096

Ion Ratio Lower Upper

43 100

72 27.3 21.2 31.8



#29

Tetrahydrofuran

Concen: 0.485 ug/l

RT: 7.23 min Scan# 1698

Delta R.T. 0.02 min

Lab File: VN056747.D

Acq: 16 Jul 2019 5:36

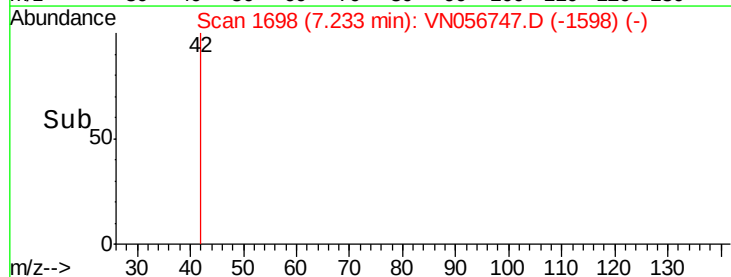
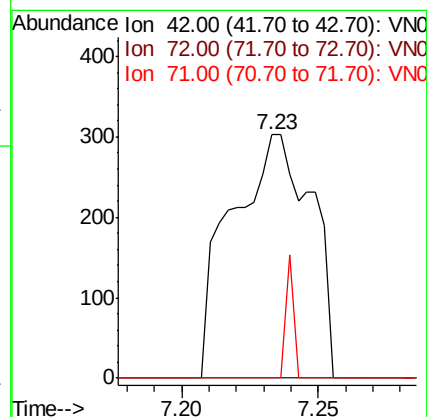
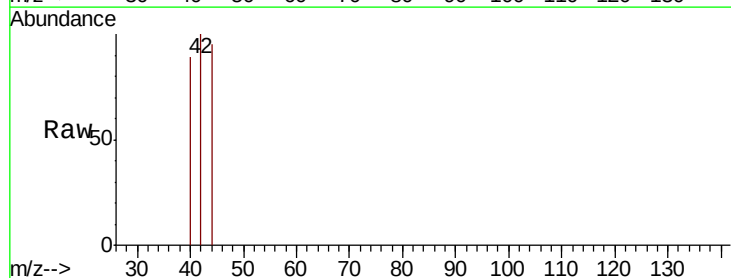
Tgt Ion: 42 Resp: 618

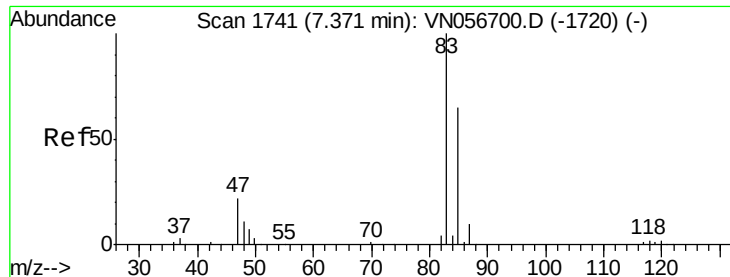
Ion Ratio Lower Upper

42 100

72 0.0 33.5 50.3#

71 4.9 31.8 47.8#

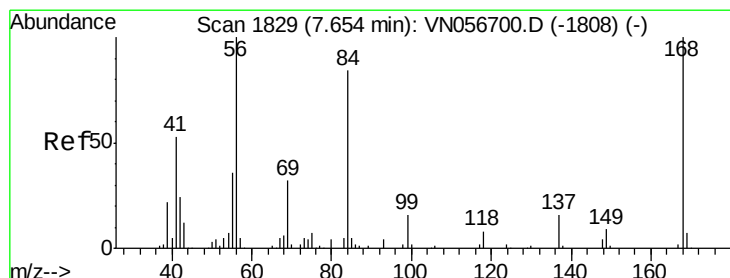
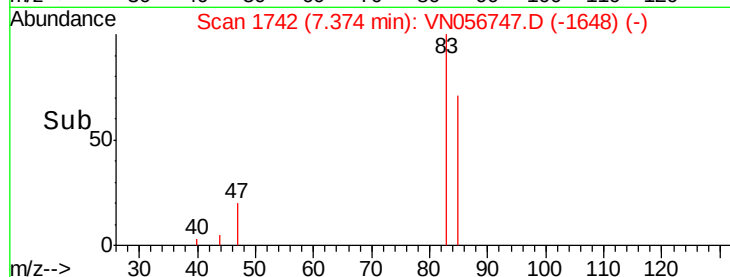
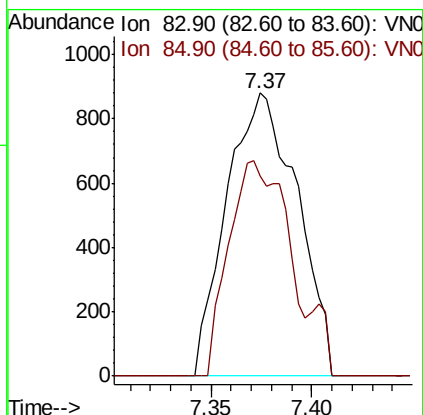
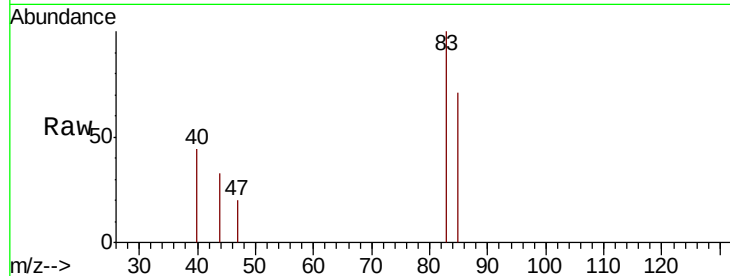




#30
Chloroform
Concen: 0.439 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN056747.D
Acq: 16 Jul 2019 5:36

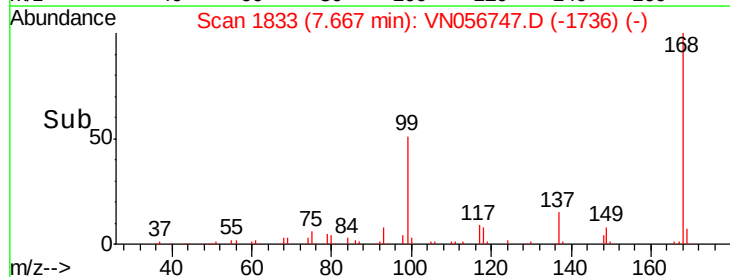
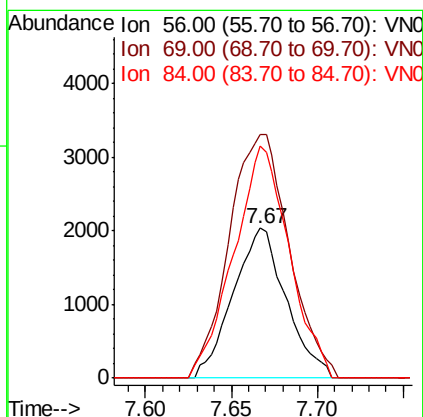
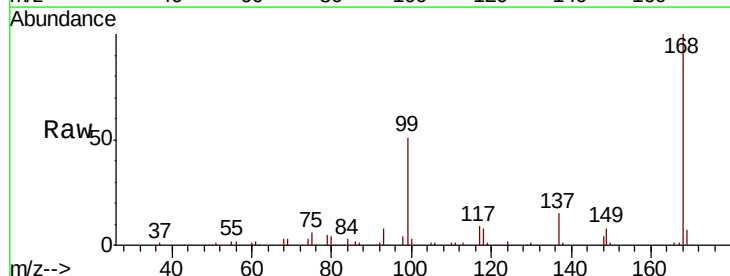
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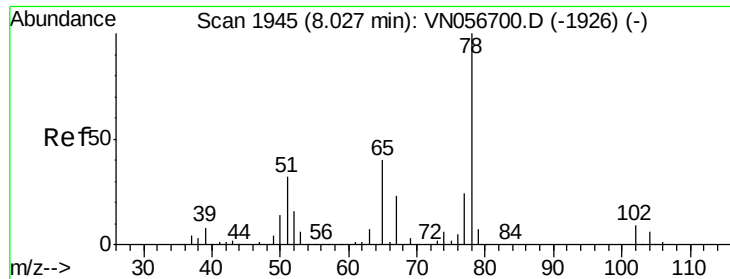
Tot Ion: 83 Resp: 2142
Ion Ratio Lower Upper
83 100
85 70.6 51.9 77.9



#31
Cyclohexane
Concen: 0.943 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN056747.D
Acq: 16 Jul 2019 5:36

Tgt Ion: 56 Resp: 4370
Ion Ratio Lower Upper
56 100
69 162.4 25.8 38.8#
84 154.7 67.4 101.0#

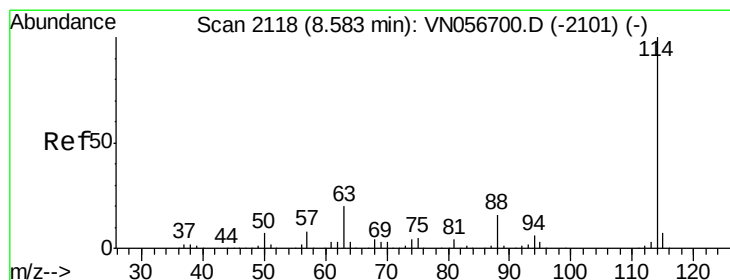
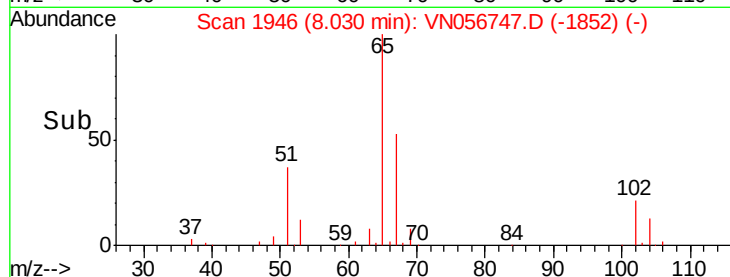
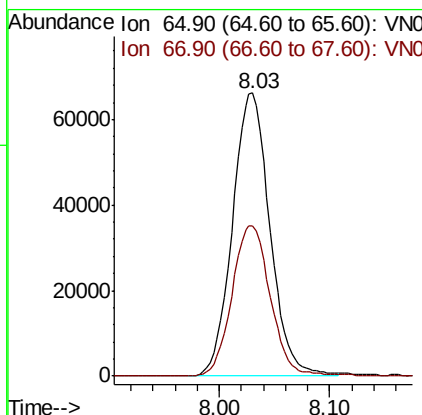
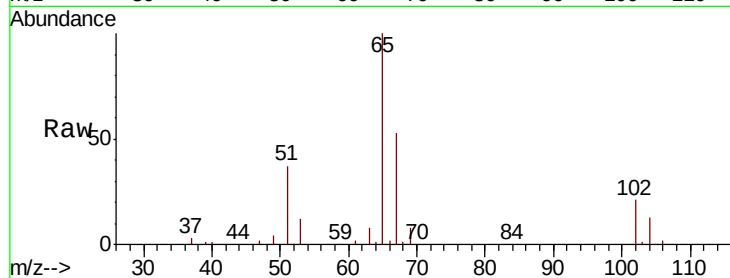




#33
 1,2-Dichloroethane-d4
 Concen: 53.694 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN056747.D
 Acq: 16 Jul 2019 5:36

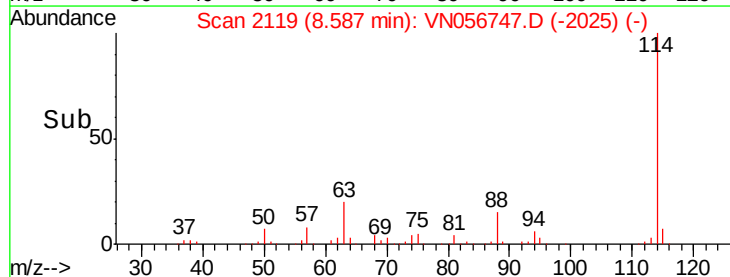
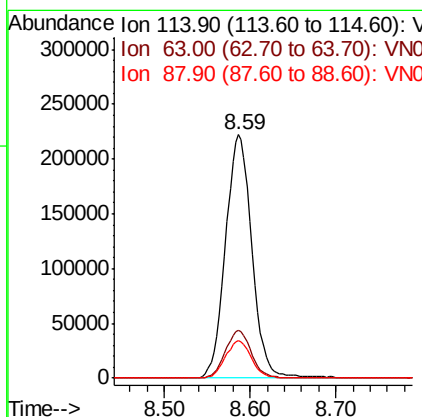
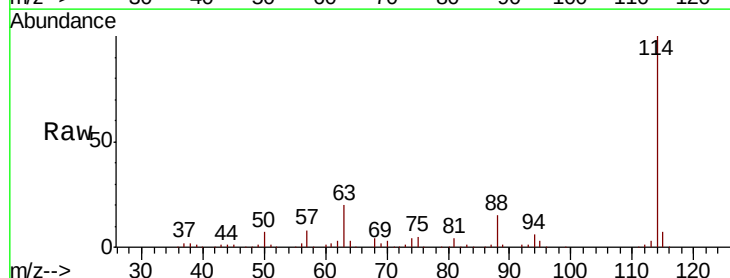
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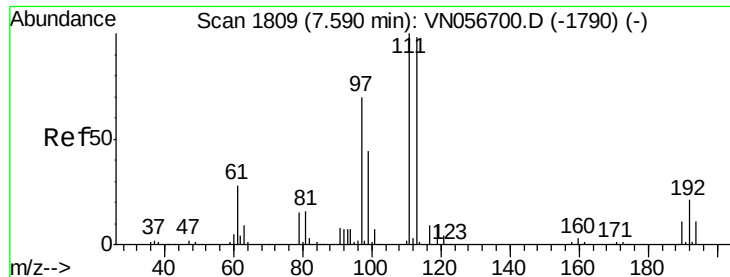
Tot Ion: 65 Resp: 155614
 Ion Ratio Lower Upper
 65 100
 67 54.4 0.0 109.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056747.D
 Acq: 16 Jul 2019 5:36

Tgt Ion: 114 Resp: 473112
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 39.4
 88 15.3 0.0 31.2

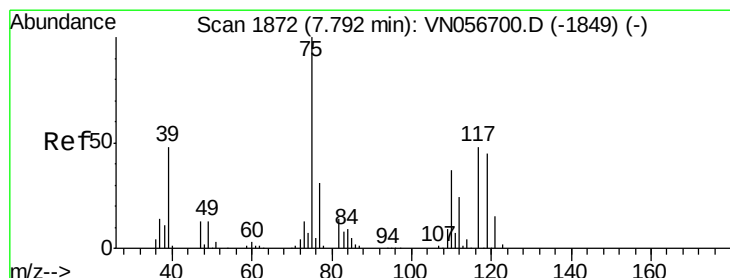
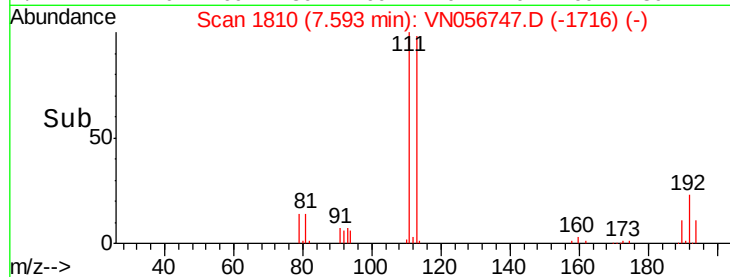
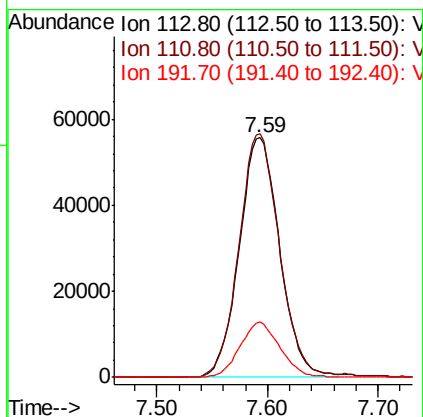
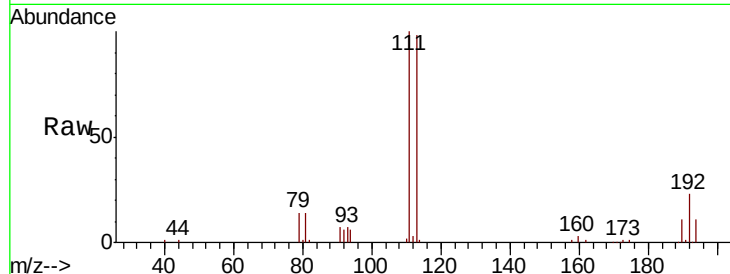




#35
 Dibromofluoromethane
 Concen: 48.053 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN056747.D
 Acq: 16 Jul 2019 5:36

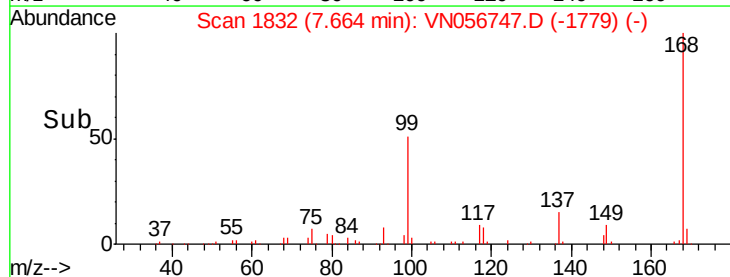
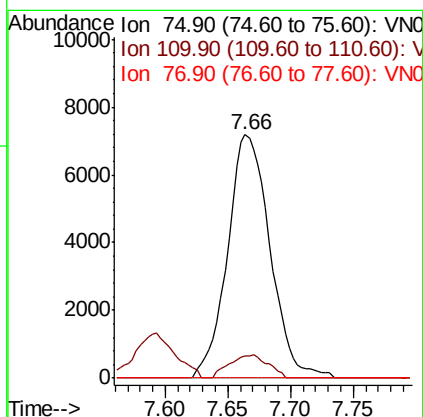
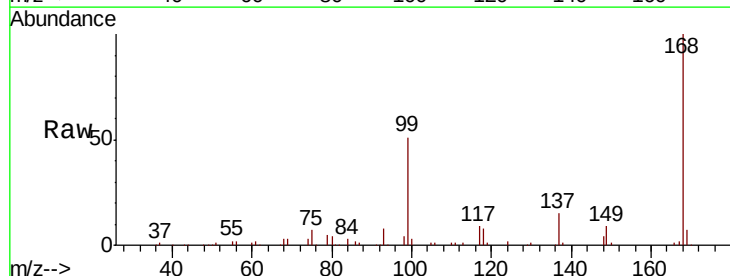
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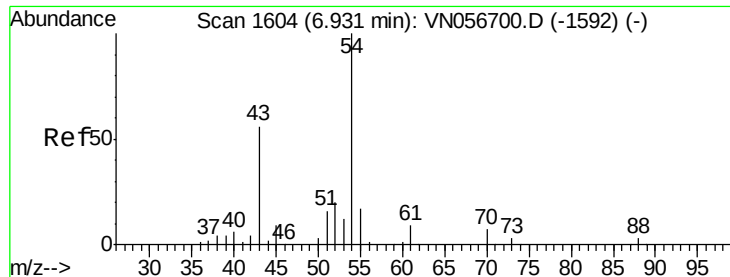
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.8	122.6
192	22.9	17.5	26.3



#36
 1,1-Dichloropropene
 Concen: 3.864 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056747.D
 Acq: 16 Jul 2019 5:36

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.7	18.4	55.4#
77	0.0	24.6	36.8#

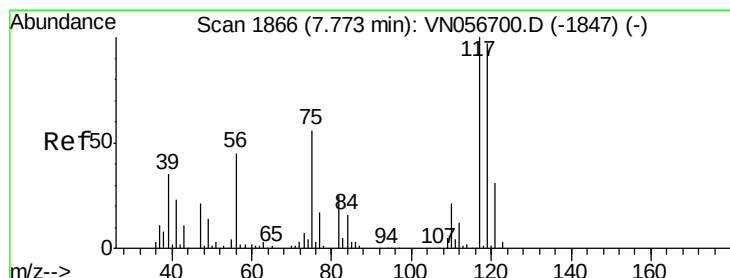
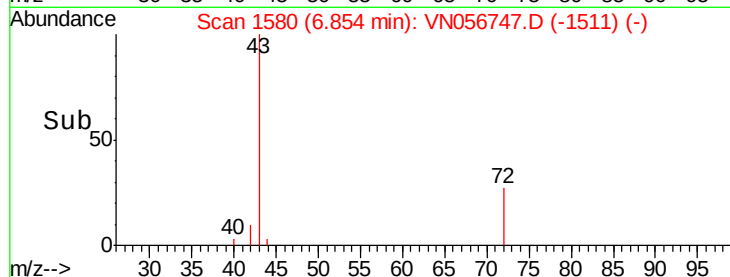
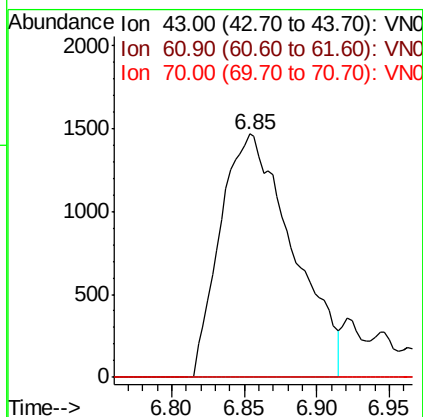
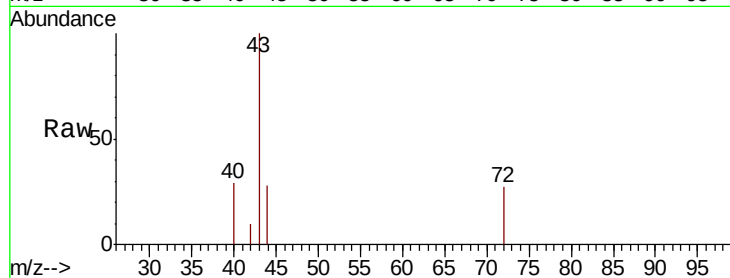




#37
Ethyl Acetate
Concen: 1.181 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. -0.08 min
Lab File: VN056747.D
Acq: 16 Jul 2019 5:36

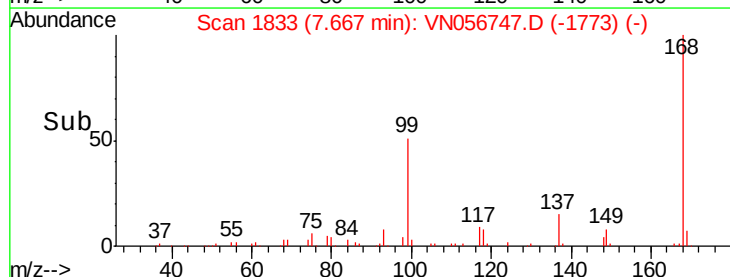
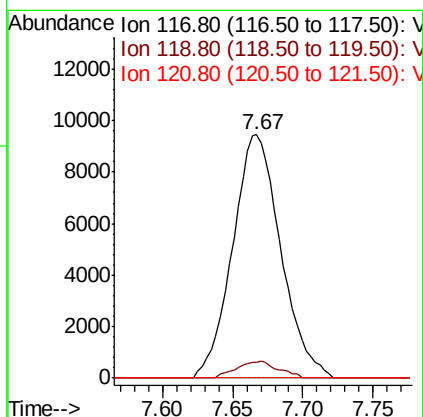
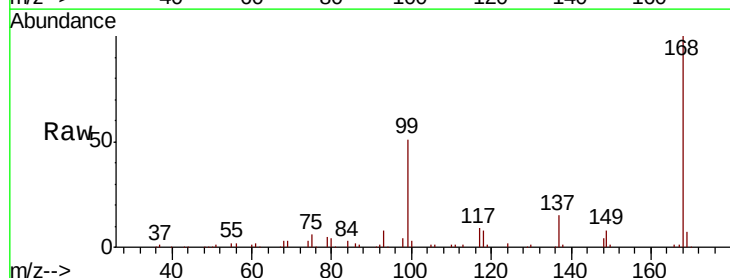
Instrument :
MSVOA_N
ClientSampleId :
CL-01-071219-D

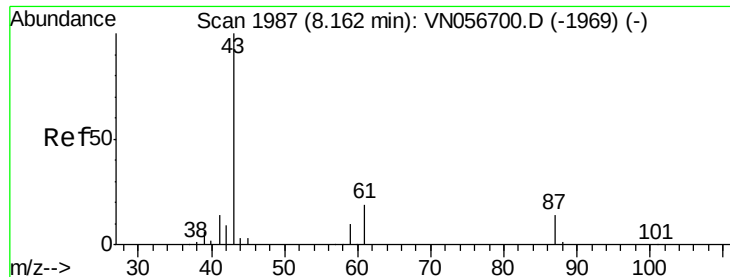
Tot Ion: 43 Resp: 5096
Ion Ratio Lower Upper
43 100
61 0.0 11.3 16.9#
70 0.0 8.5 12.7#



#38
Carbon Tetrachloride
Concen: 5.490 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN056747.D
Acq: 16 Jul 2019 5:36

Tgt Ion: 117 Resp: 22541
Ion Ratio Lower Upper
117 100
119 6.7 77.5 116.3#
121 0.0 24.7 37.1#





#43

Isopropyl Acetate

Concen: 1.831 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN056747.D

Acq: 16 Jul 2019 5:36

Instrument :

MSVOA_N

ClientSampleId :

CL-01-071219-D

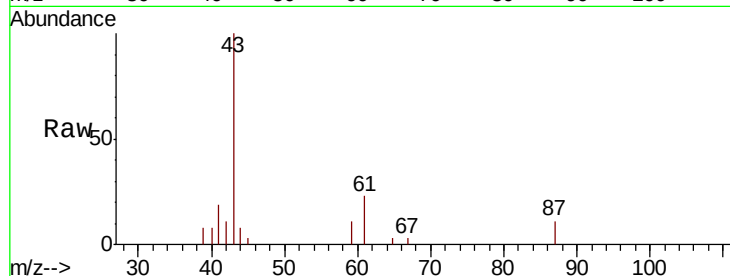
Tot Ion: 43 Resp: 12422

Ion Ratio Lower Upper

43 100

61 25.6 22.3 33.5

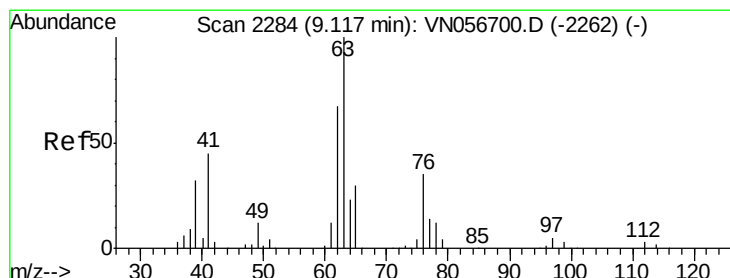
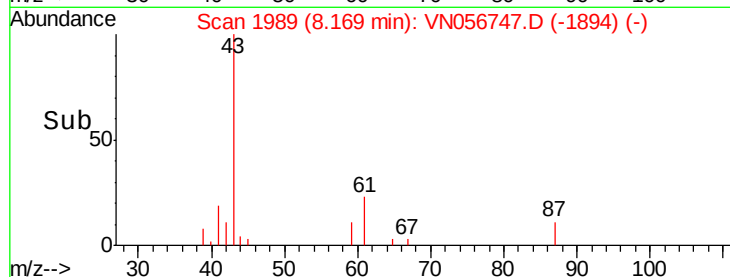
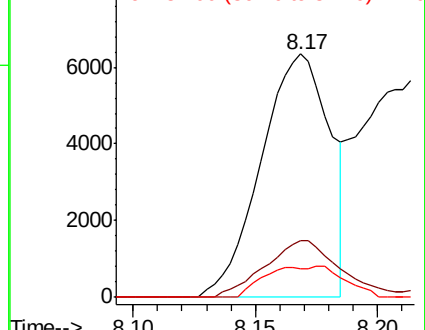
87 7.3 11.1 16.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.265 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN056747.D

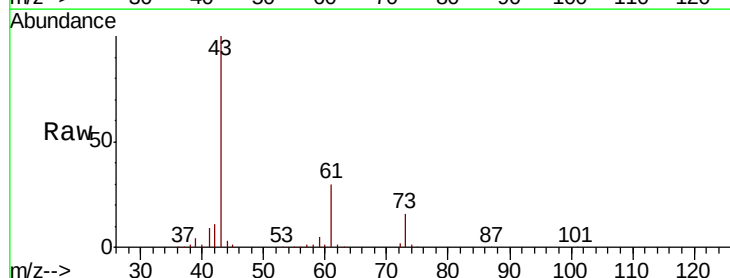
Acq: 16 Jul 2019 5:36

Tgt Ion: 63 Resp: 945

Ion Ratio Lower Upper

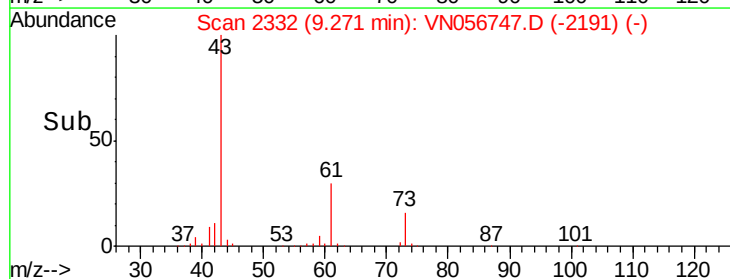
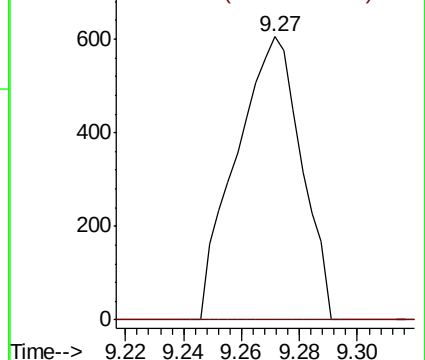
63 100

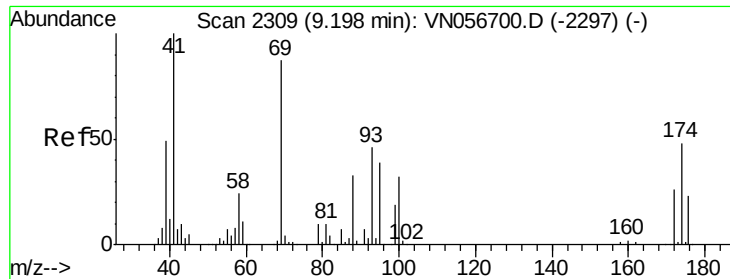
65 0.0 24.0 36.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

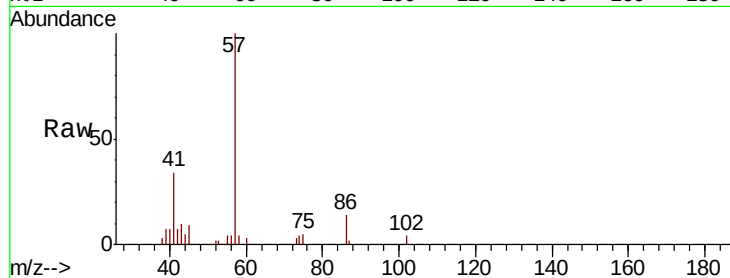




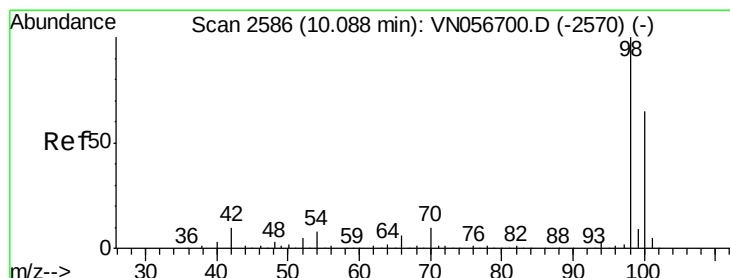
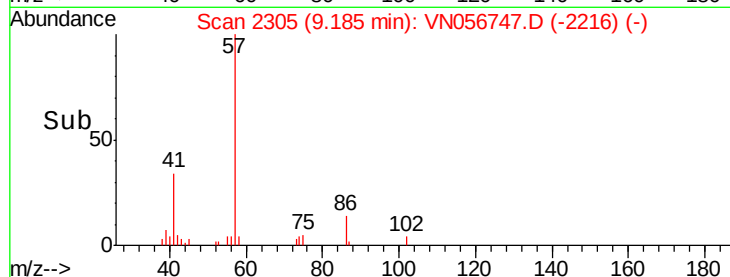
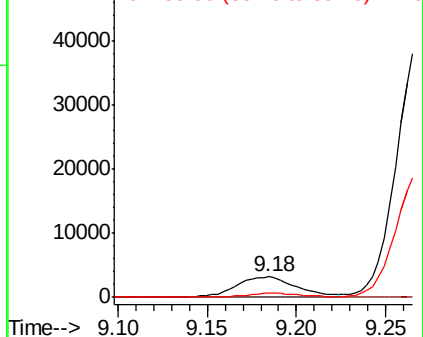
#48
Methvl methacrylate
Concen: 2.285 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.01 min
Lab File: VN056747.D
Acq: 16 Jul 2019 5:36

Instrument :
MSVOA_N
ClientSampleId :
CL-01-071219-D

Tot Ion: 41 Resp: 7495
Ion Ratio Lower Upper
41 100
69 0.0 71.4 107.0#
39 16.8 41.2 61.8#

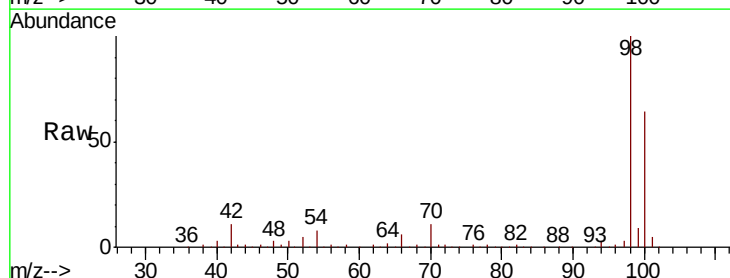


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

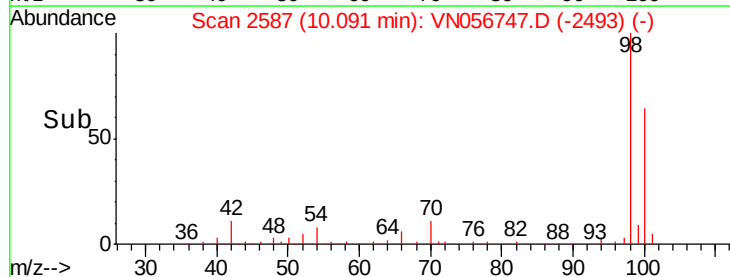
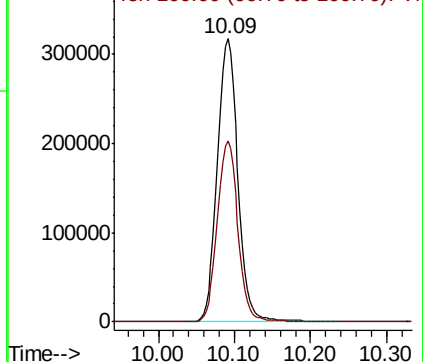


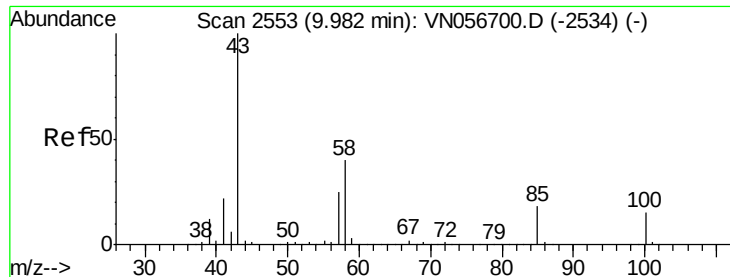
#50
Toluene-d8
Concen: 52.456 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN056747.D
Acq: 16 Jul 2019 5:36

Tgt Ion: 98 Resp: 596503
Ion Ratio Lower Upper
98 100
100 64.2 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.933 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN056747.D

Acq: 16 Jul 2019 5:36

Instrument :

MSVOA_N

ClientSampleId :

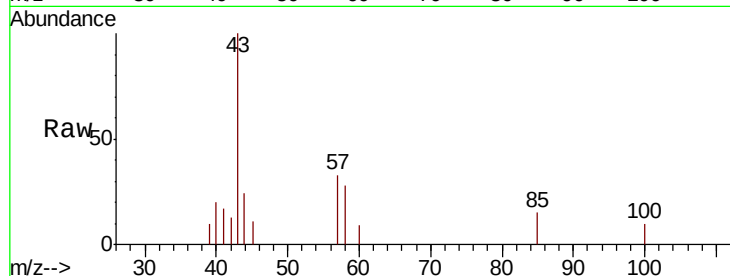
CL-01-071219-D

Tot Ion: 43 Resp: 4101

Ion Ratio Lower Upper

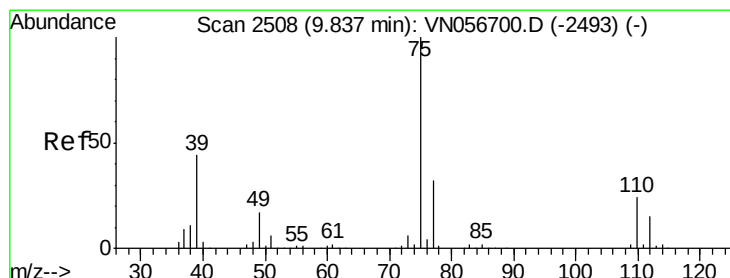
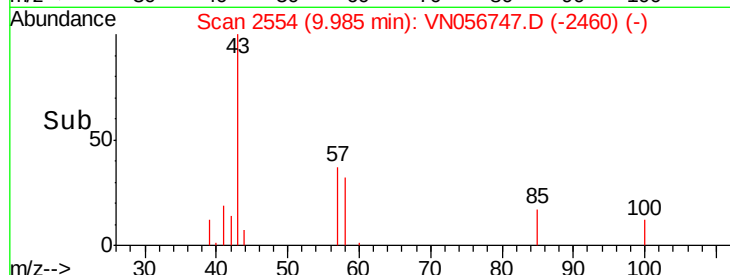
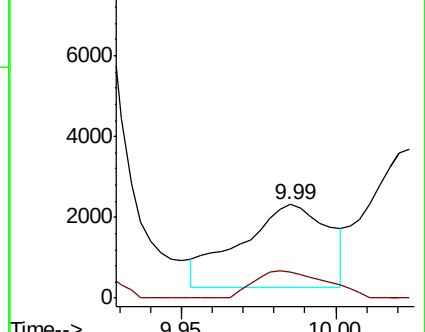
43 100

58 27.1 32.0 48.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 8.012 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN056747.D

Acq: 16 Jul 2019 5:36

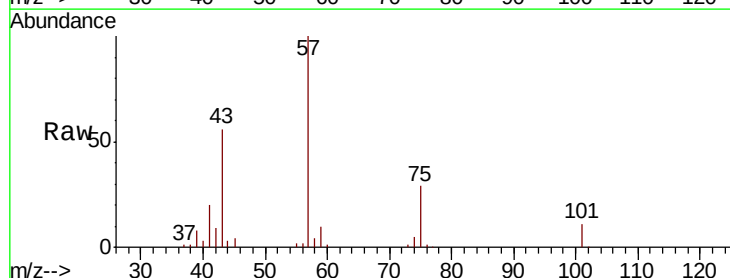
Tgt Ion: 75 Resp: 40716

Ion Ratio Lower Upper

75 100

77 0.6 26.0 39.0#

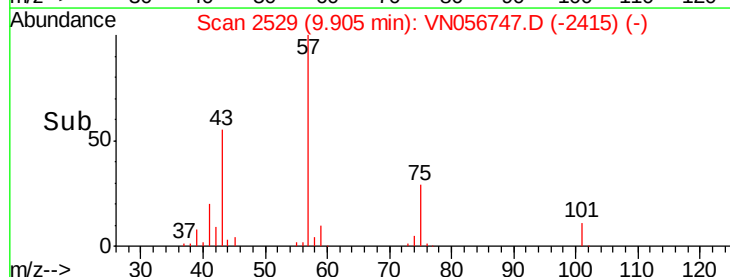
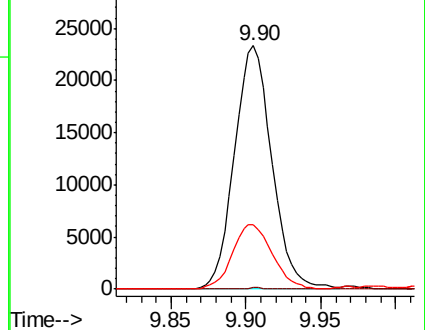
39 26.3 35.1 52.7#

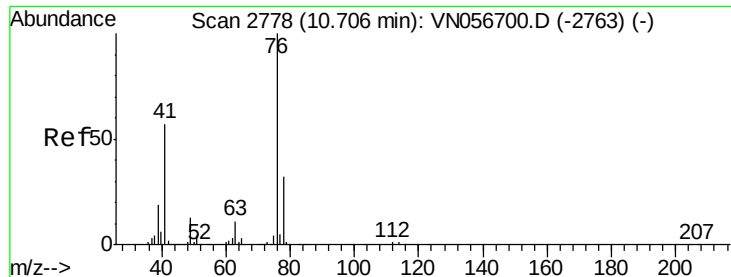


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.347 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN056747.D

Acq: 16 Jul 2019 5:36

Instrument :

MSVOA_N

ClientSampleId :

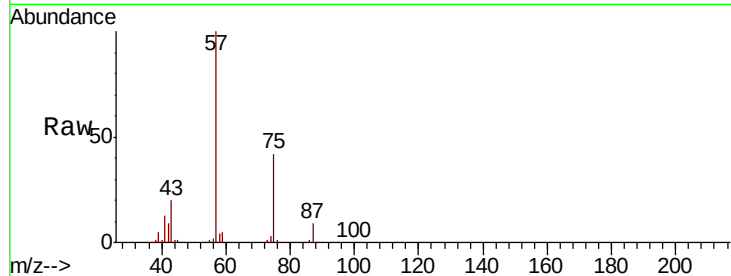
CL-01-071219-D

Tot Ion: 76 Resp: 7351

Ion Ratio Lower Upper

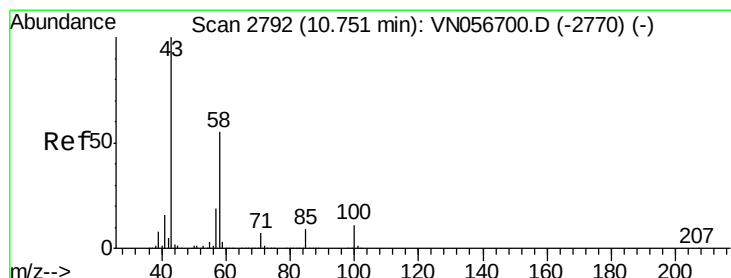
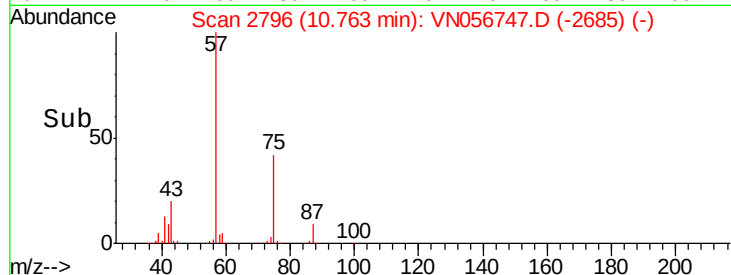
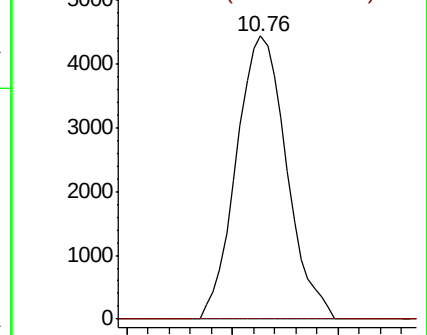
76 100

78 0.0 26.0 39.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 32.929 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN056747.D

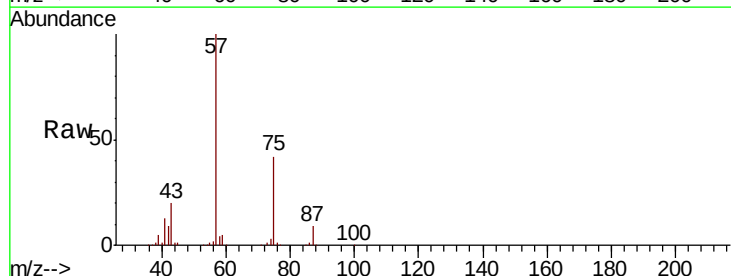
Acq: 16 Jul 2019 5:36

Tgt Ion: 43 Resp: 103810

Ion Ratio Lower Upper

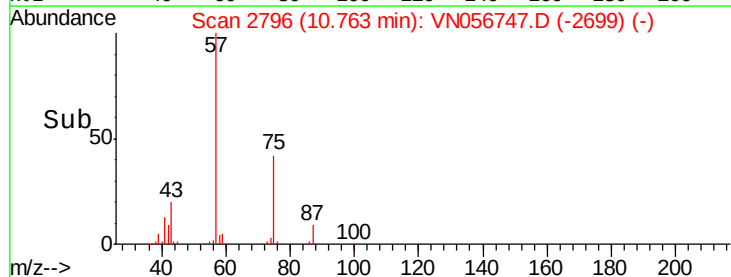
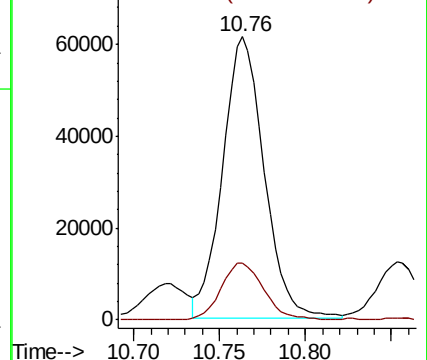
43 100

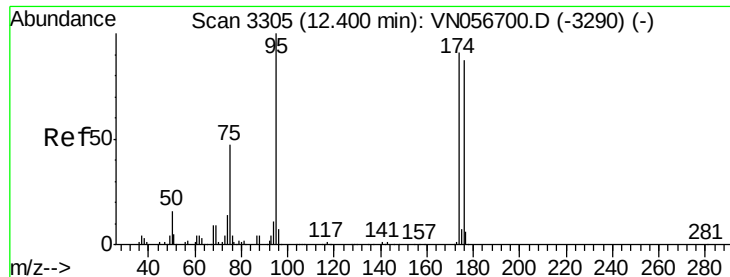
58 21.0 27.9 83.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 59.665 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056747.D

Acq: 16 Jul 2019 5:36

Instrument :

MSVOA_N

ClientSampled :

CL-01-071219-D

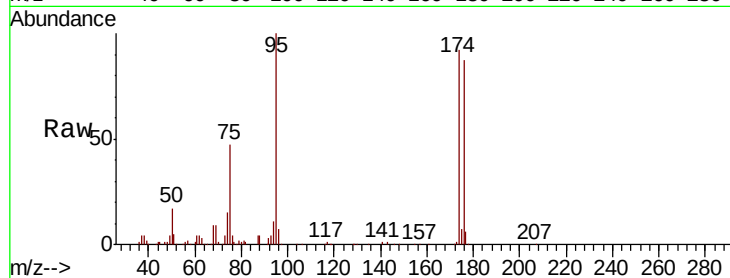
Tot Ion: 95 Resp: 228804

Ion Ratio Lower Upper

95 100

174 90.7 0.0 180.0

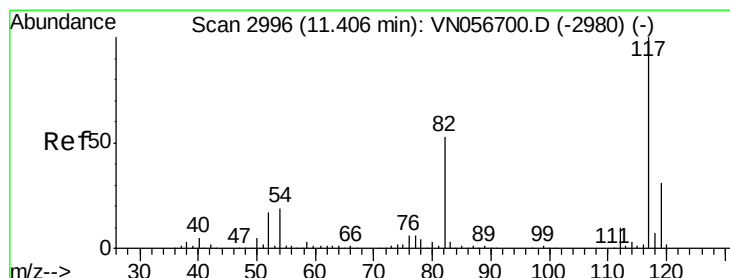
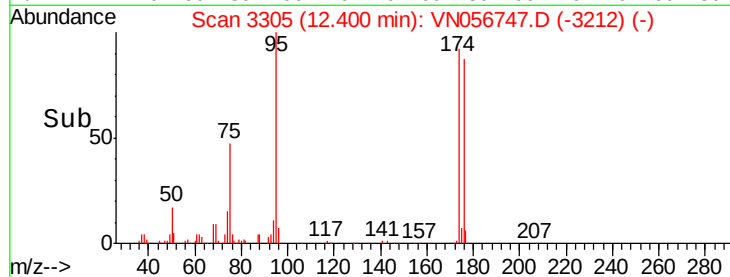
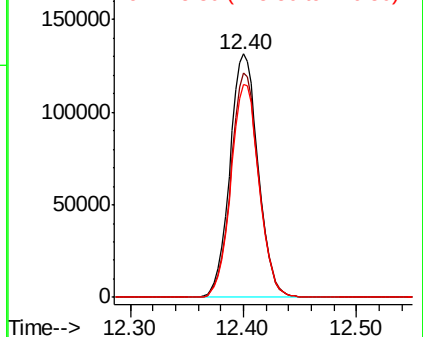
176 87.1 0.0 173.2



Abundance Ion 94.90 (94.60 to 95.60): VN056747.D (-3212) (-)

Ion 173.80 (173.50 to 174.50): VN056747.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN056747.D (-3212) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN056747.D

Acq: 16 Jul 2019 5:36

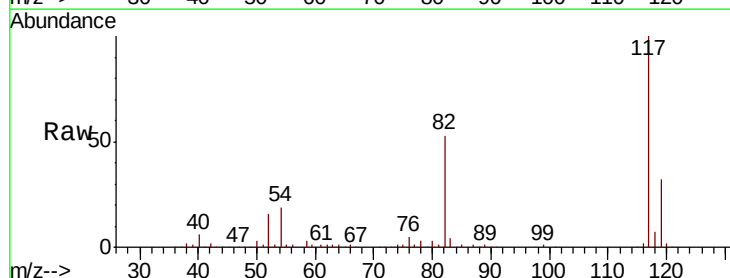
Tgt Ion: 117 Resp: 509095

Ion Ratio Lower Upper

117 100

82 53.1 42.2 63.2

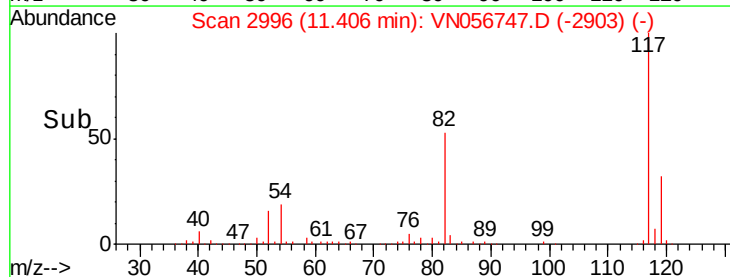
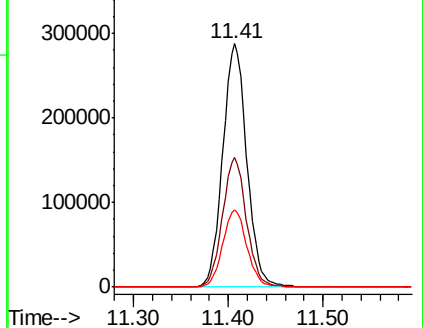
119 31.8 25.2 37.8

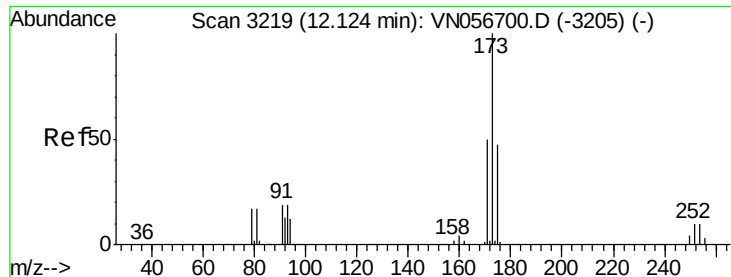


Abundance Ion 116.90 (116.60 to 117.60): VN056747.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN056747.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN056747.D (-2903) (-)





#71

Bromoform

Concen: 0.548 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.28 min

Lab File: VN056747.D

Acq: 16 Jul 2019 5:36

Instrument :

MSVOA_N

ClientSampleId :

CL-01-071219-D

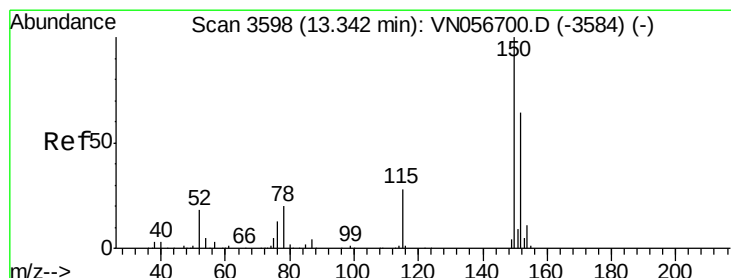
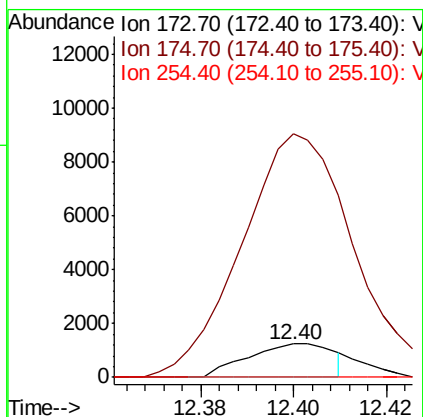
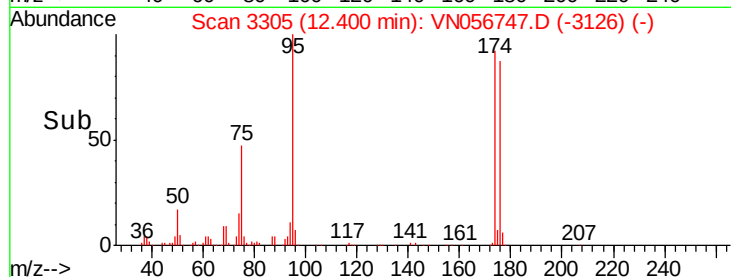
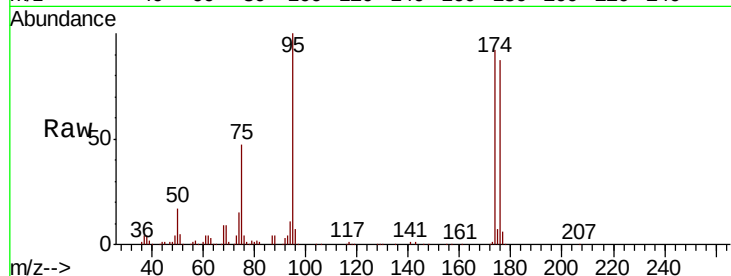
Tot Ion:173 Resp: 1597

Ion Ratio Lower Upper

173 100

175 778.1 23.8 71.4#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN056747.D

Acq: 16 Jul 2019 5:36

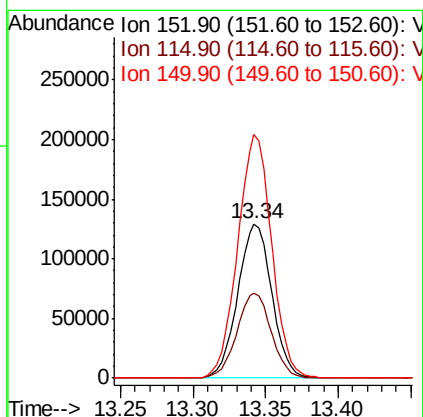
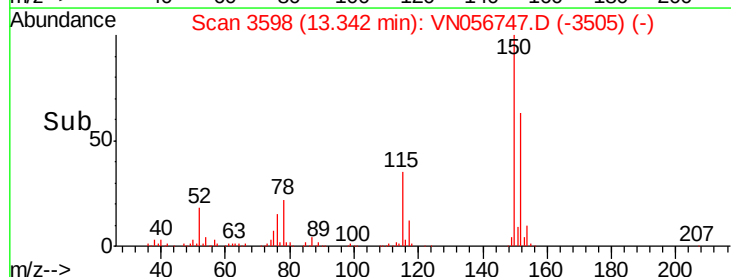
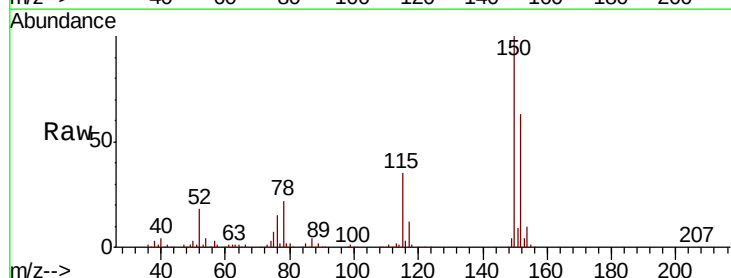
Tgt Ion:152 Resp: 211365

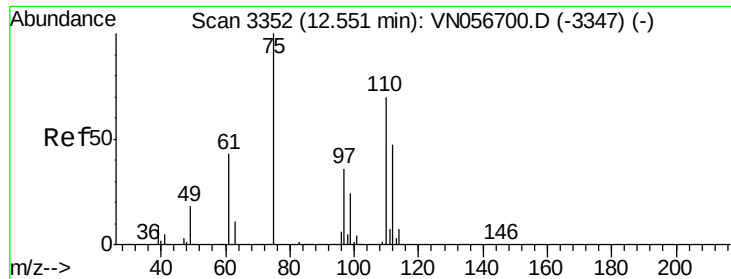
Ion Ratio Lower Upper

152 100

115 55.3 28.2 84.7

150 157.2 0.0 345.8





#76

1,2,3-Trichloropropane

Concen: 23.068 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056747.D

Acq: 16 Jul 2019 5:36

Instrument :

MSVOA_N

ClientSampleId :

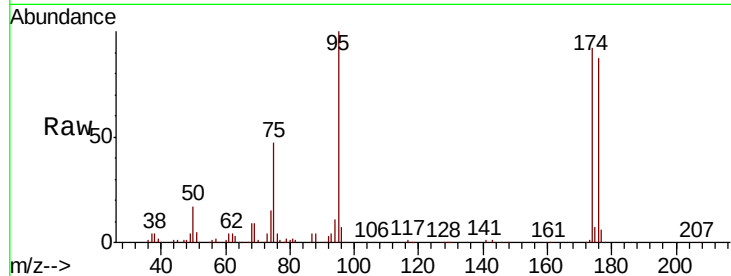
CL-01-071219-D

Tot Ion: 75 Resp: 106640

Ion Ratio Lower Upper

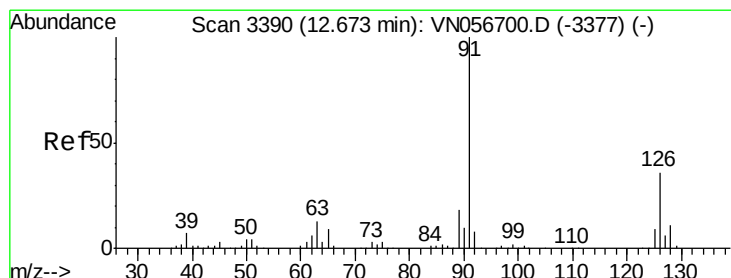
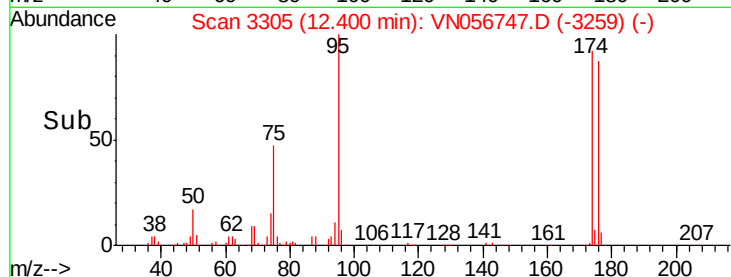
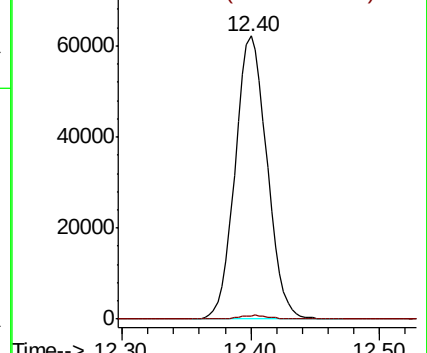
75 100

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



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN056747.D

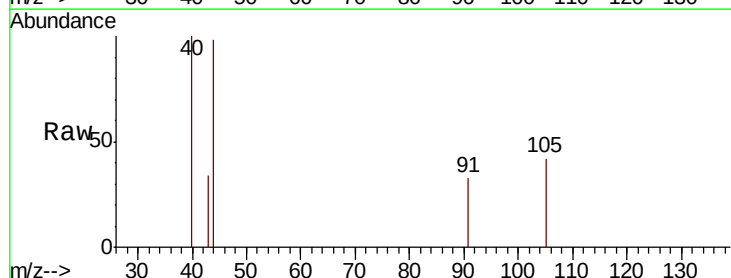
Acq: 16 Jul 2019 5:36

Tgt Ion: 91 Resp: 30

Ion Ratio Lower Upper

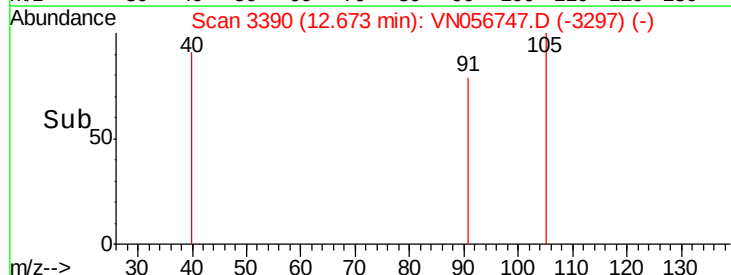
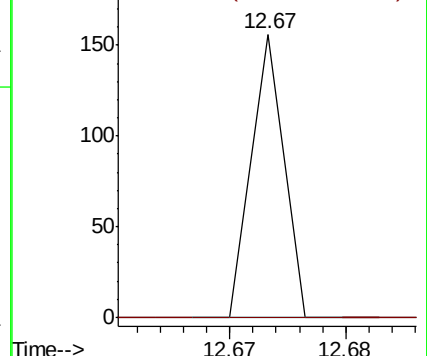
91 100

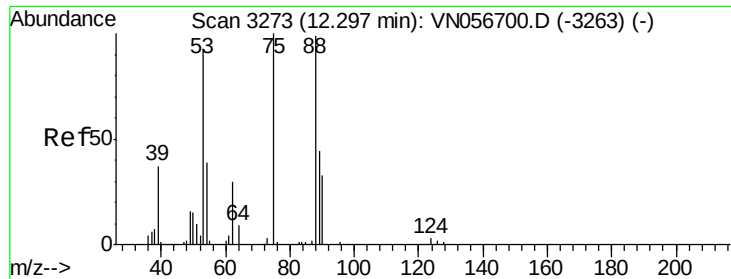
126 0.0 17.9 53.7#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

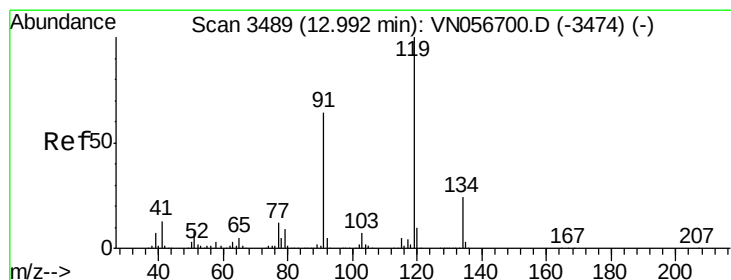
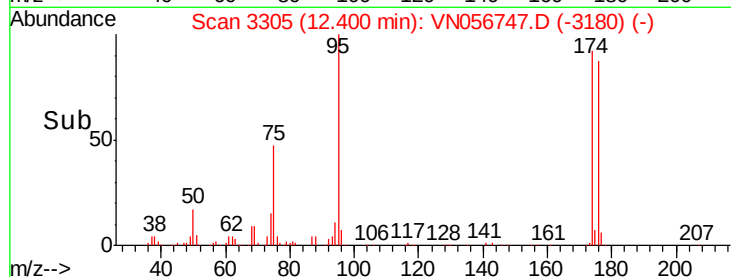
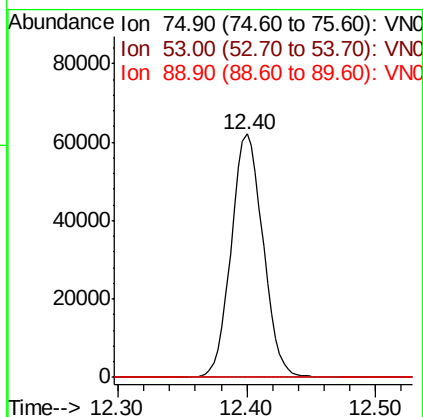
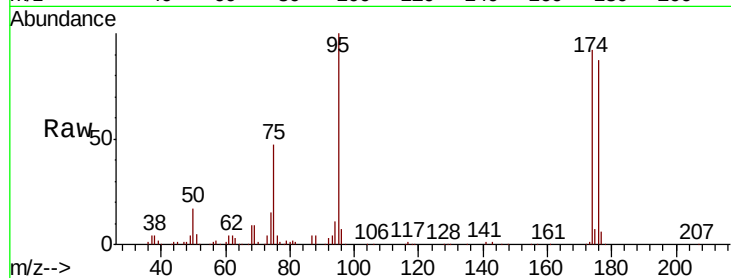




#81
trans-1,4-Dichloro-2-butene
Concen: 71.241 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN056747.D
Acq: 16 Jul 2019 5:36

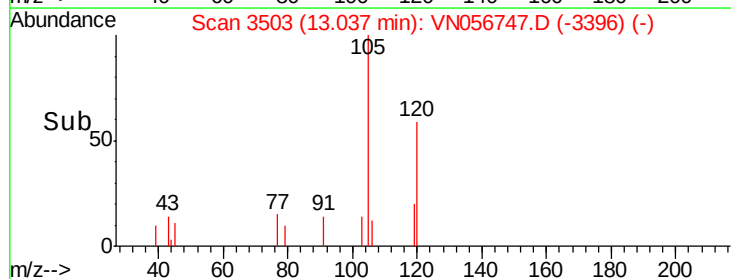
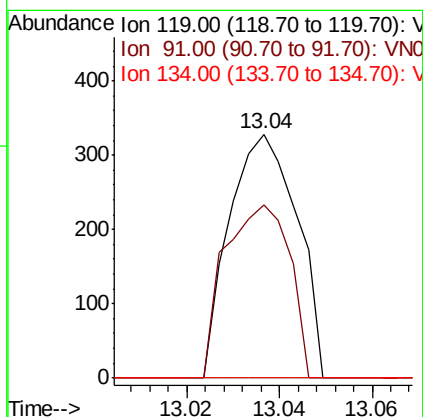
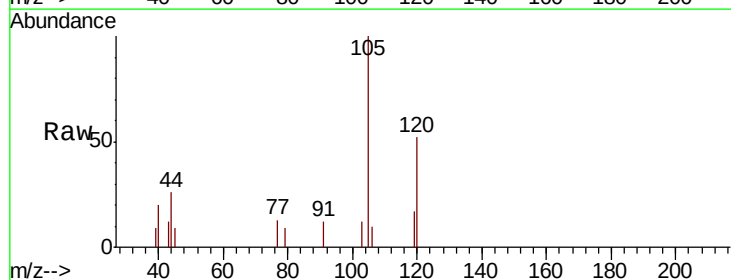
Instrument :
MSVOA_N
ClientSampleId :
CL-01-071219-D

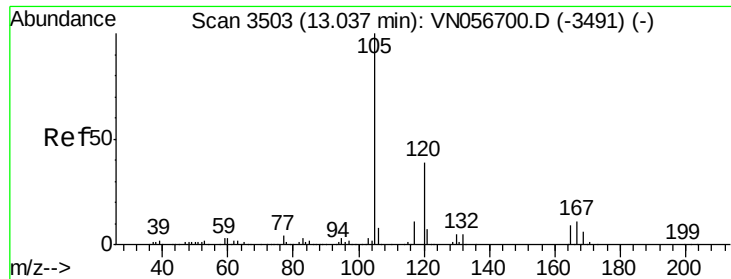
Tot Ion: 75 Resp: 106640
Ion Ratio Lower Upper
75 100
53 0.0 73.7 110.5#
89 0.0 36.2 54.2#



#83
tert-Butylbenzene
Concen: Below Cal
RT: 13.04 min Scan# 3503
Delta R.T. 0.05 min
Lab File: VN056747.D
Acq: 16 Jul 2019 5:36

Tgt Ion: 119 Resp: 331
Ion Ratio Lower Upper
119 100
91 68.3 31.8 95.4
134 0.0 13.0 38.9#





#84

1,2,4-Trimethylbenzene

Concen: 0.210 ug/l

RT: 13.04 min Scan# 3503

Delta R.T. -0.00 min

Lab File: VN056747.D

Acq: 16 Jul 2019 5:36

Instrument :

MSVOA_N

ClientSampleId :

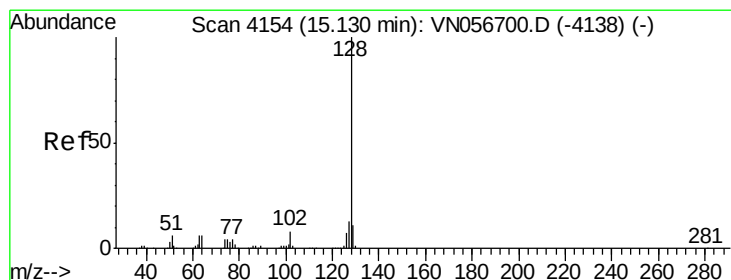
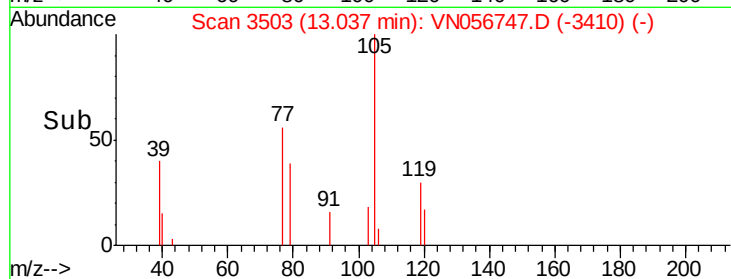
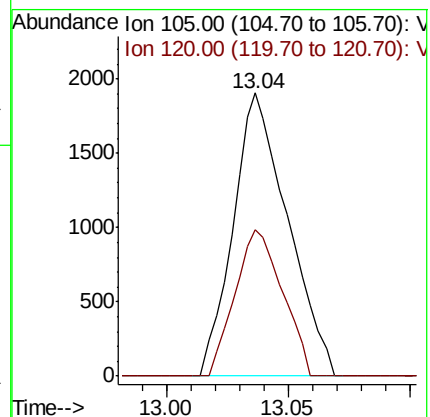
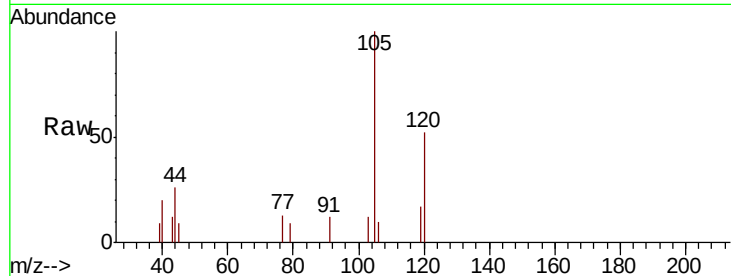
CL-01-071219-D

Tot Ion:105 Resp: 2958

Ion Ratio Lower Upper

105 100

120 45.1 22.9 68.8



#95

Naphthalene

Concen: 5.005 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056747.D

Acq: 16 Jul 2019 5:36

Tgt Ion:128 Resp: 5965

Ion Ratio Lower Upper

128 100

127 14.6 10.3 15.5

129 10.0 8.7 13.1

