

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031419\
 Data File : VN054284.D
 Acq On : 15 Mar 2019 2:16
 Operator : JC/SP
 Sample : PB117849TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB117849TB

Quant Time: Mar 15 07:00:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1352326	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2250600	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2361744	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	982599	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	717384	49.95	ug/l	0.00
Spiked Amount			Recovery	=	99.90%	
35) Dibromofluoromethane	7.59	113	694923	47.87	ug/l	0.00
Spiked Amount			Recovery	=	95.74%	
50) Toluene-d8	10.09	98	2814298	52.50	ug/l	0.00
Spiked Amount			Recovery	=	105.00%	
62) 4-Bromofluorobenzene	12.40	95	1054053	56.19	ug/l	0.00
Spiked Amount			Recovery	=	112.38%	

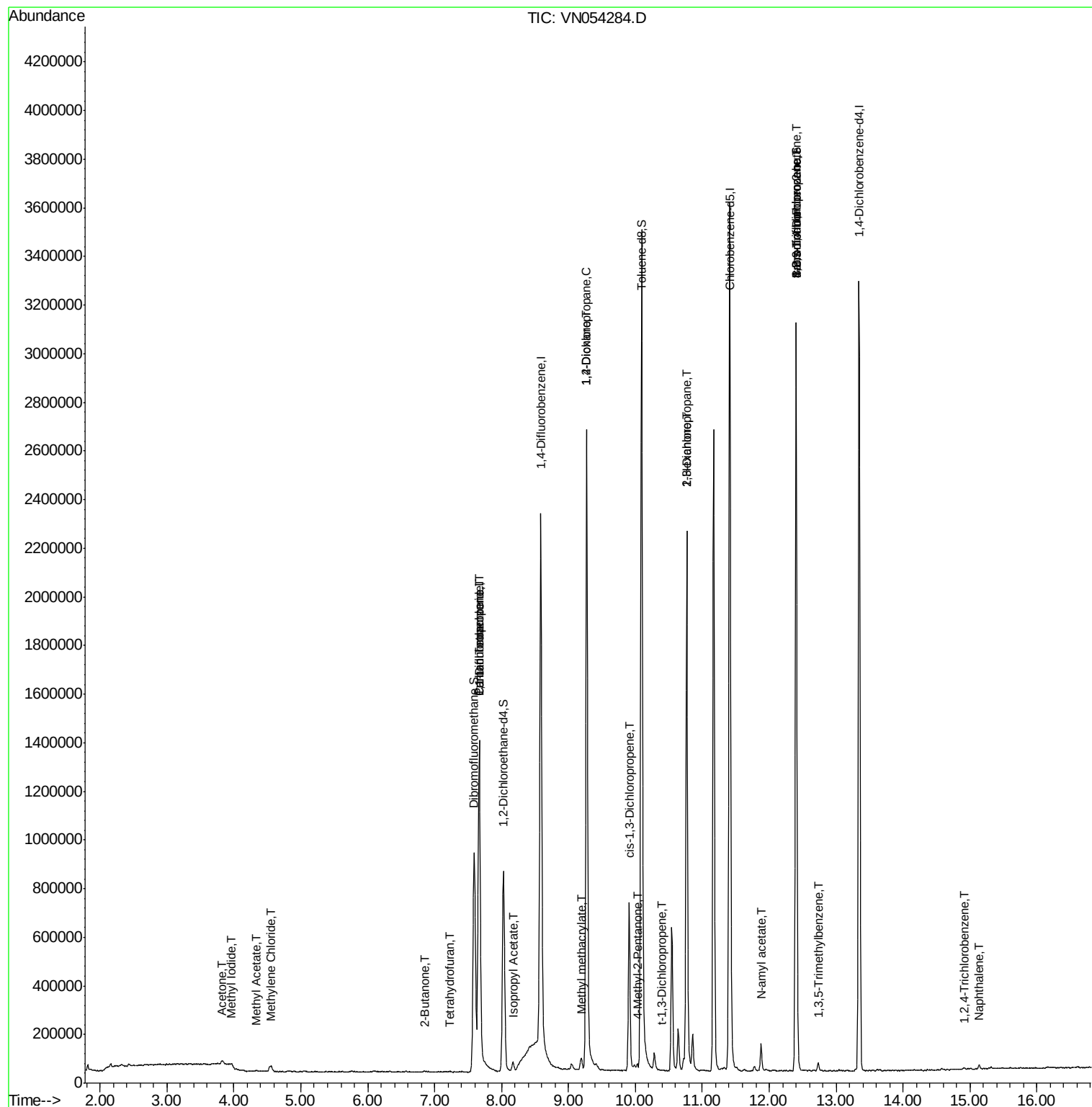
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.95	142	151	1.504	ug/l #	1
16) Acetone	3.82	43	25059	6.094	ug/l	96
18) Methyl Acetate	4.33	43	2410	0.290	ug/l #	85
20) Methylene Chloride	4.55	84	19860	1.471	ug/l #	88
25) 2-Butanone	6.85	43	1560	0.323	ug/l #	87
29) Tetrahydrofuran	7.23	42	2175	0.701	ug/l #	51
31) Cyclohexane	7.66	56	20132	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	77622	3.745	ug/l #	48
38) Carbon Tetrachloride	7.67	117	109444	5.035	ug/l #	16
43) Isopropyl Acetate	8.17	43	41797	2.000	ug/l #	95
45) 1,2-Dichloropropane	9.27	63	3645	0.248	ug/l #	43
48) Methyl methacrylate	9.18	41	16788	1.583	ug/l #	11
49) 1,4-Dioxane	9.28	88	340	2.266	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	17618	1.593	ug/l #	36
53) t-1,3-Dichloropropene	10.39	75	536	2.008	ug/l #	24
54) cis-1,3-Dichloropropene	9.91	75	140197	6.031	ug/l #	60
57) 1,3-Dichloropropane	10.77	76	25320	1.128	ug/l #	43
59) 2-Hexanone	10.77	43	324057	44.025	ug/l #	50
71) Bromoform	12.40	173	6642	2.791	ug/l #	1
74) N-amyl acetate	11.88	43	34197	1.960	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	503394	34.838	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	15918	0.243	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	503394	119.092	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	2322	2.623	ug/l	98
95) Naphthalene	15.14	128	15265	3.799	ug/l	99

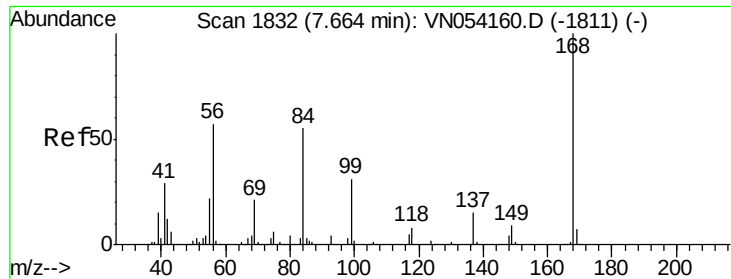
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054284.D

Acq: 15 Mar 2019 2:16

Instrument :

MSVOA_N

ClientSampleId :

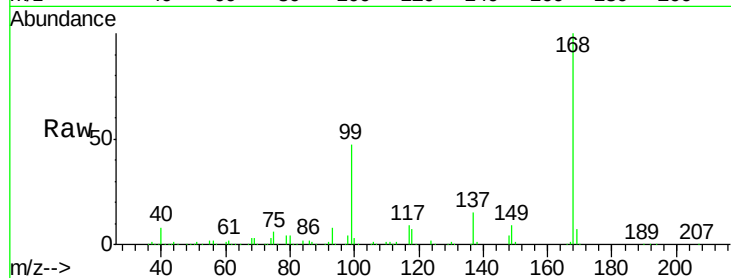
PB117849TB

Tot Ion:168 Resp: 1352326

Ion Ratio Lower Upper

168 100

99 47.5 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

600000

500000

400000

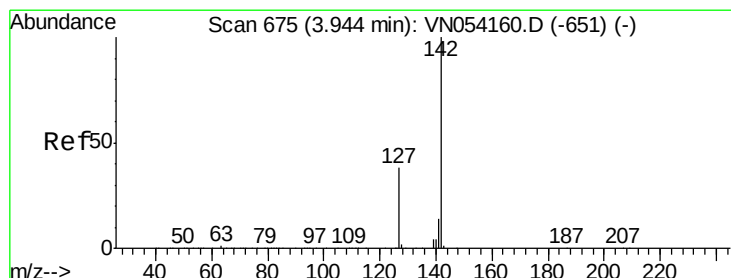
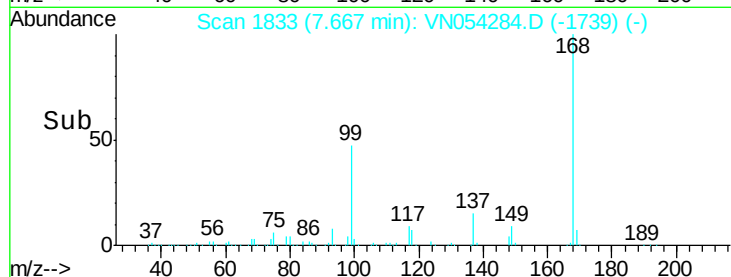
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#10

Methyl Iodide

Concen: 1.504 ug/l

RT: 3.95 min Scan# 676

Delta R.T. 0.00 min

Lab File: VN054284.D

Acq: 15 Mar 2019 2:16

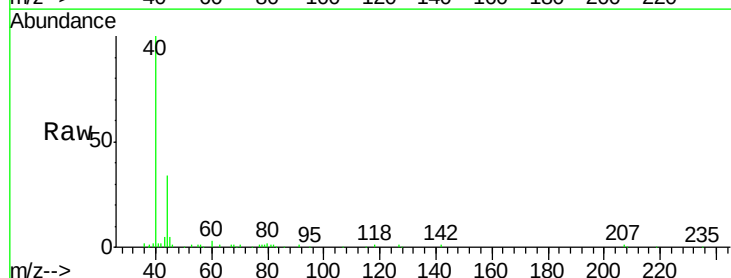
Tgt Ion:142 Resp: 151

Ion Ratio Lower Upper

142 100

127 195.4 30.3 45.5#

141 0.0 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

3.95

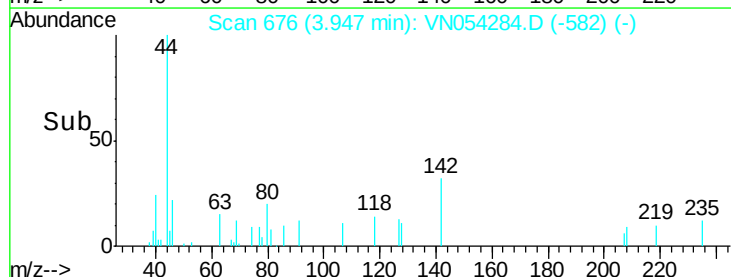
600

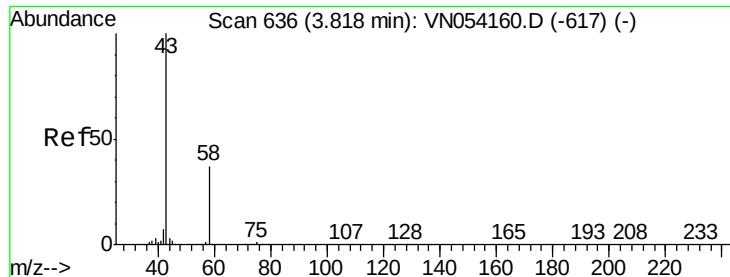
400

200

0

Time--> 3.93 3.94 3.95





#16

Acetone

Concen: 6.094 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN054284.D

Acq: 15 Mar 2019 2:16

Instrument :

MSVOA_N

ClientSampled :

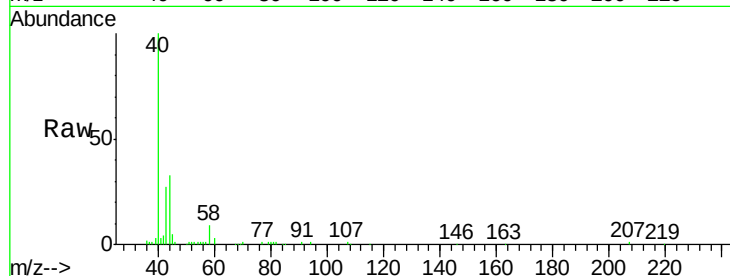
PB117849TB

Tot Ion: 43 Resp: 25059

Ion Ratio Lower Upper

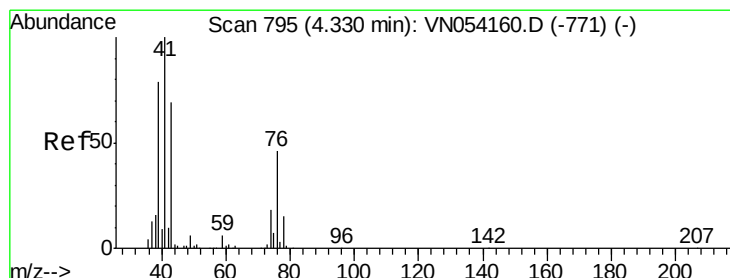
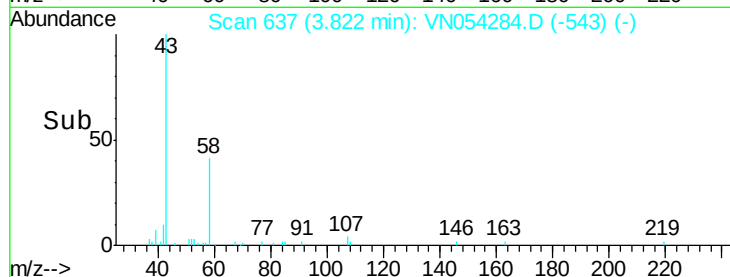
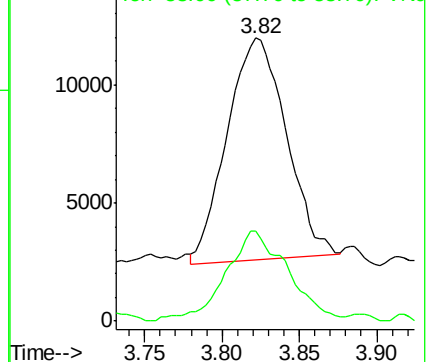
43 100

58 39.6 29.9 44.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.290 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN054284.D

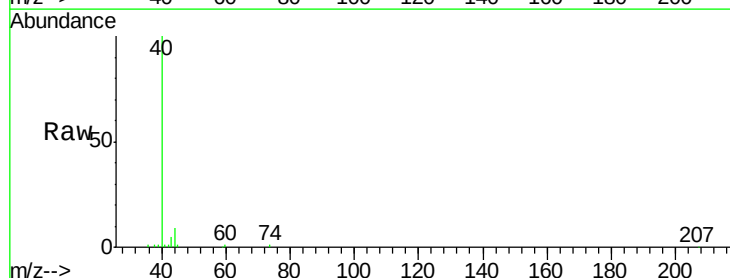
Acq: 15 Mar 2019 2:16

Tgt Ion: 43 Resp: 2410

Ion Ratio Lower Upper

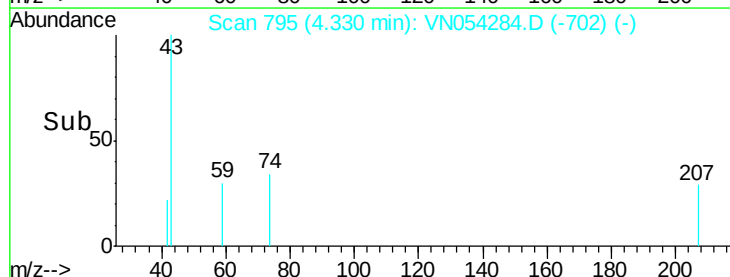
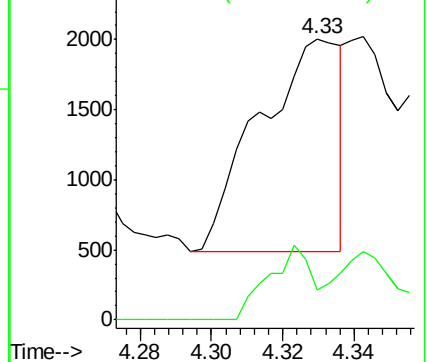
43 100

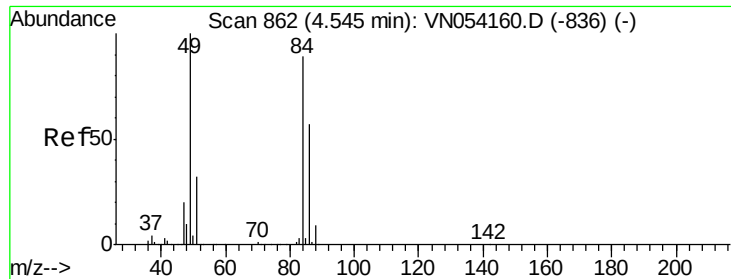
74 18.2 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

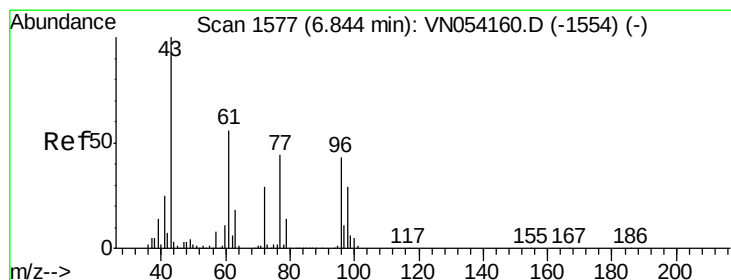
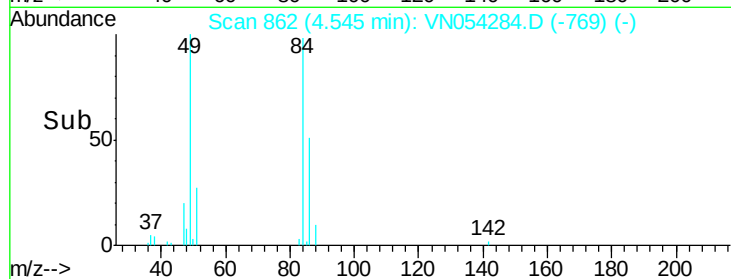
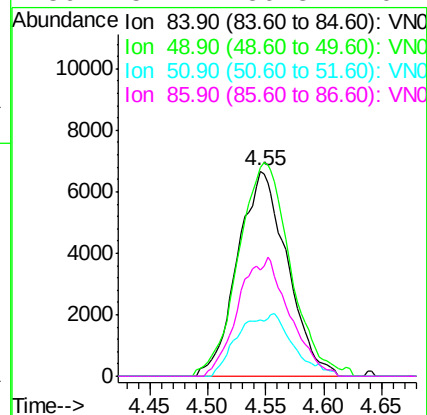
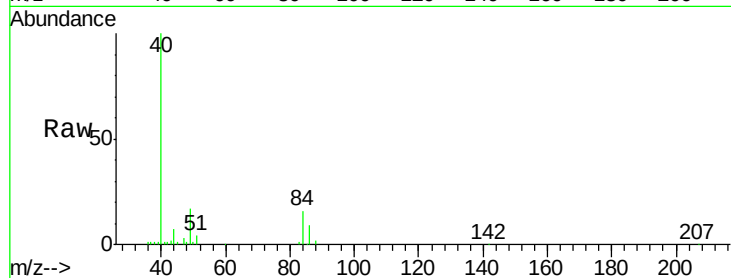




#20
Methvlene Chloride
Concen: 1.471 ug/l
RT: 4.55 min Scan# 862
Delta R.T. 0.00 min
Lab File: VN054284.D
Acq: 15 Mar 2019 2:16

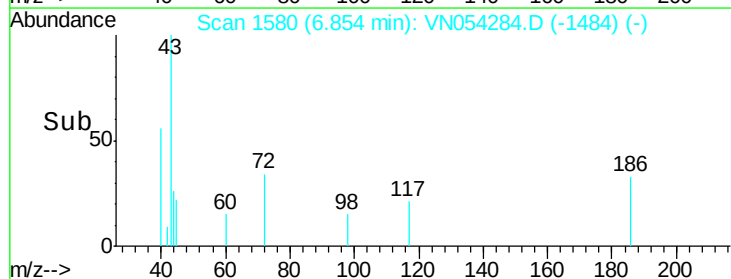
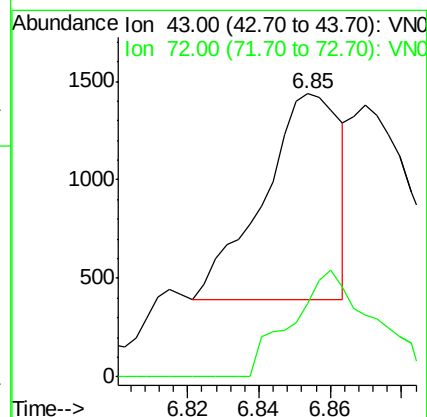
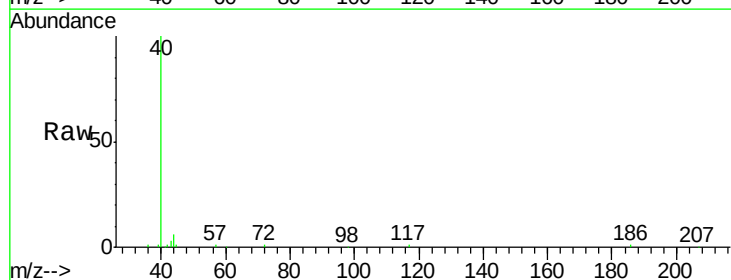
Instrument :
MSVOA_N
ClientSampled :
PB117849TB

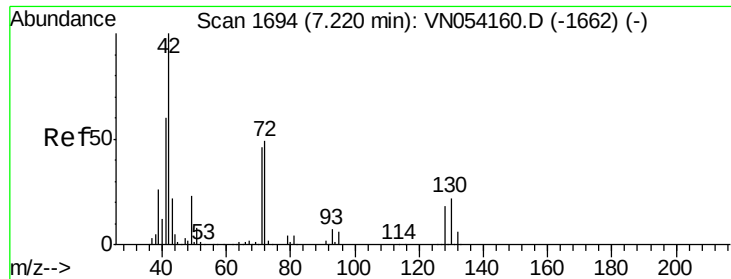
Tot Ion: 84 Resp: 19860
Ion Ratio Lower Upper
84 100
49 101.5 89.7 134.5
51 27.2 28.2 42.4#
86 52.1 50.8 76.2



#25
2-Butanone
Concen: 0.323 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.01 min
Lab File: VN054284.D
Acq: 15 Mar 2019 2:16

Tgt Ion: 43 Resp: 1560
Ion Ratio Lower Upper
43 100
72 35.9 23.0 34.6#

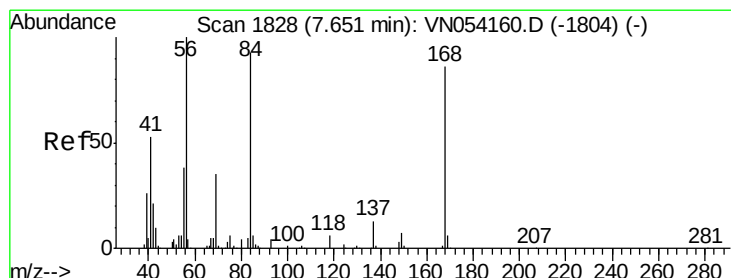
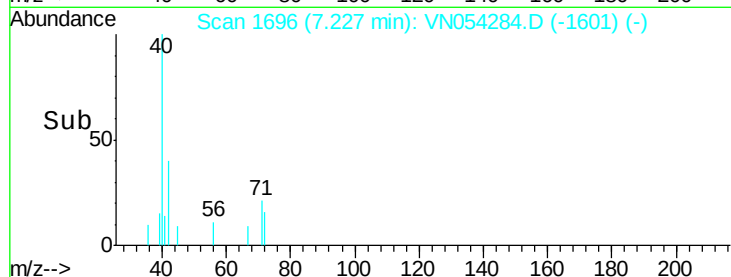
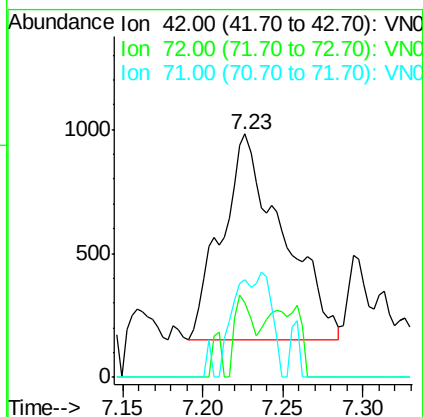
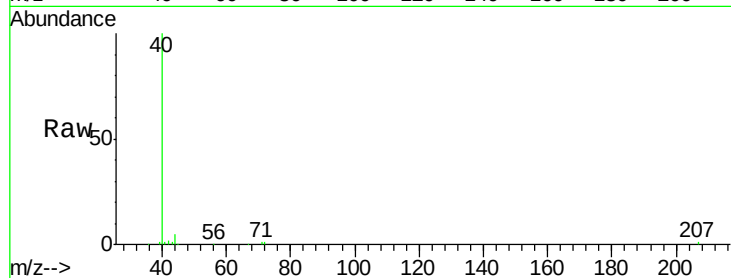




#29
Tetrahydrofuran
Concen: 0.701 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.01 min
Lab File: VN054284.D
Acq: 15 Mar 2019 2:16

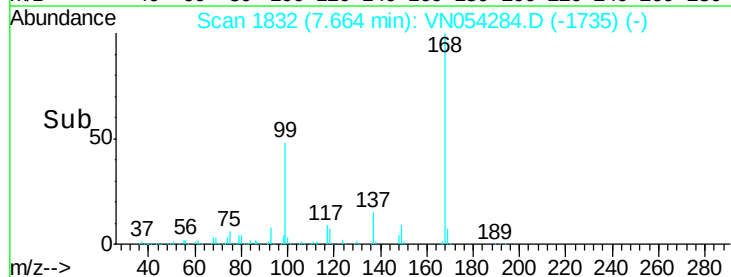
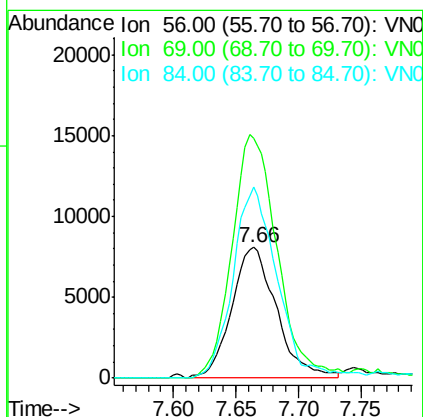
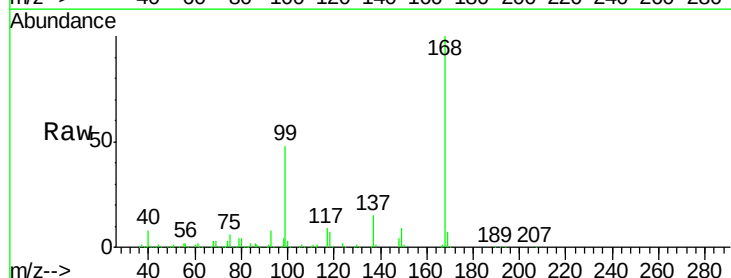
Instrument :
MSVOA_N
ClientSampled :
PB117849TB

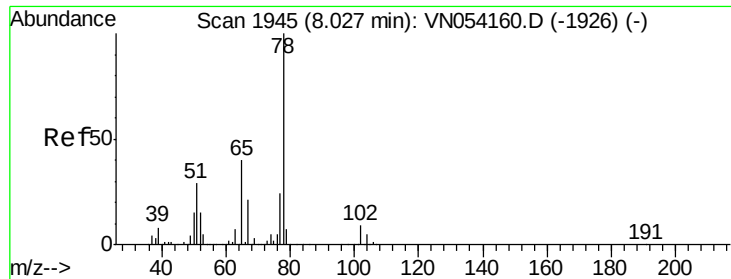
Tot Ion: 42 Resp: 2175
Ion Ratio Lower Upper
42 100
72 11.3 37.8 56.6#
71 16.2 36.2 54.2#



#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN054284.D
Acq: 15 Mar 2019 2:16

Tgt Ion: 56 Resp: 20132
Ion Ratio Lower Upper
56 100
69 183.6 27.8 41.6#
84 146.5 74.6 111.8#

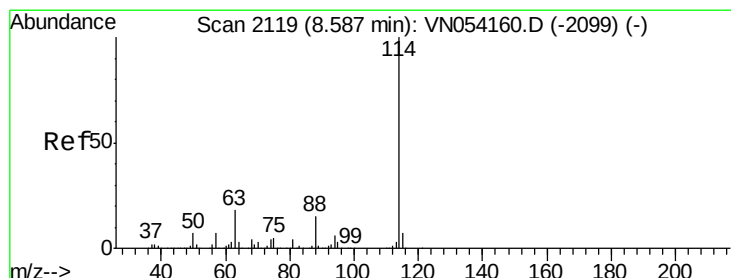
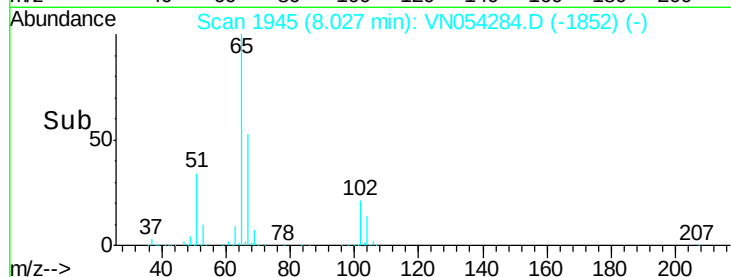
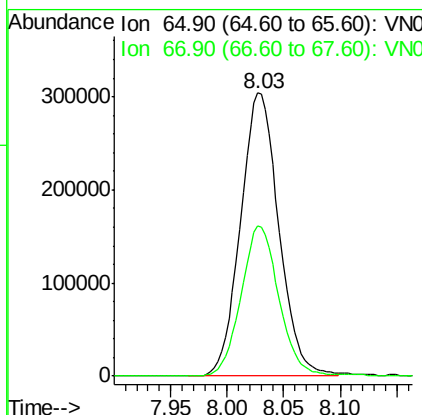
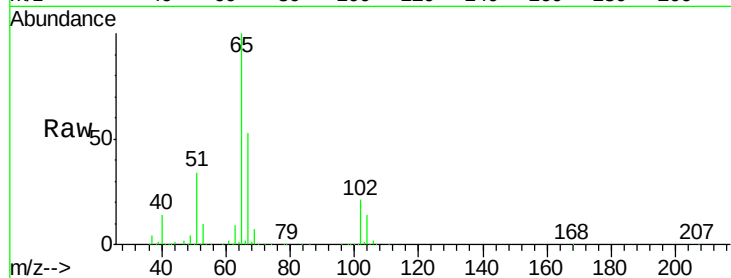




#33
 1,2-Dichloroethane-d4
 Concen: 49.951 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054284.D
 Acq: 15 Mar 2019 2:16

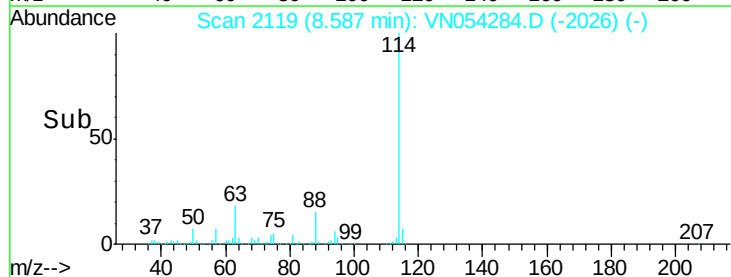
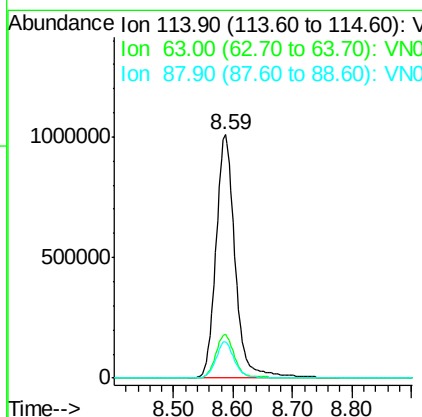
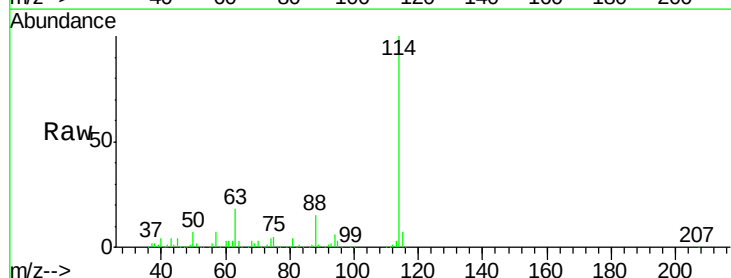
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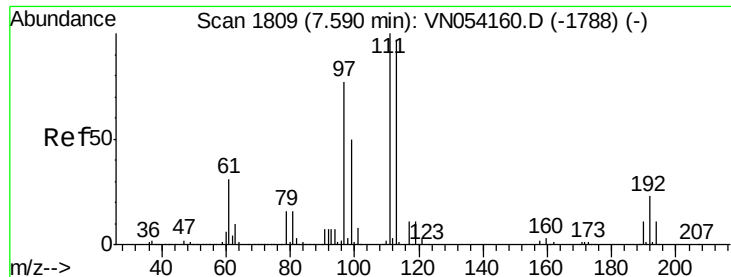
Tot Ion: 65 Resp: 717384
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054284.D
 Acq: 15 Mar 2019 2:16

Tgt Ion: 114 Resp: 2250600
 Ion Ratio Lower Upper
 114 100
 63 18.0 0.0 35.2
 88 15.0 0.0 30.2

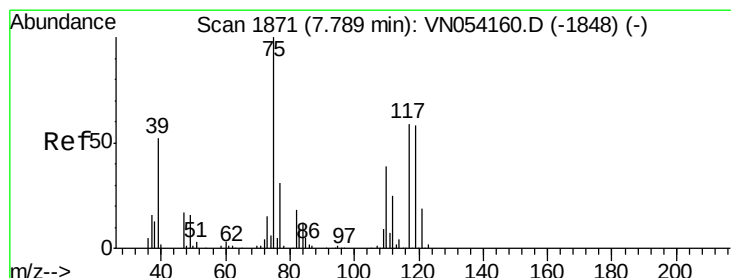
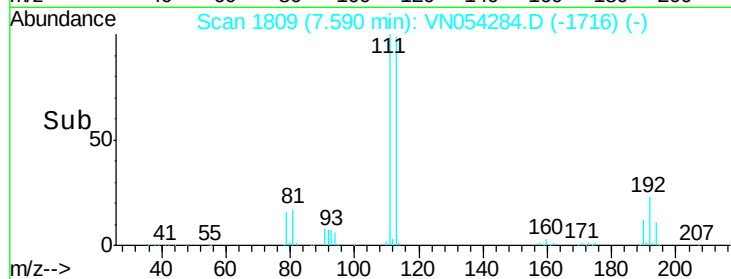
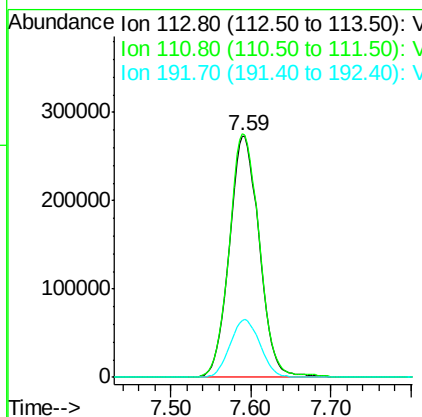
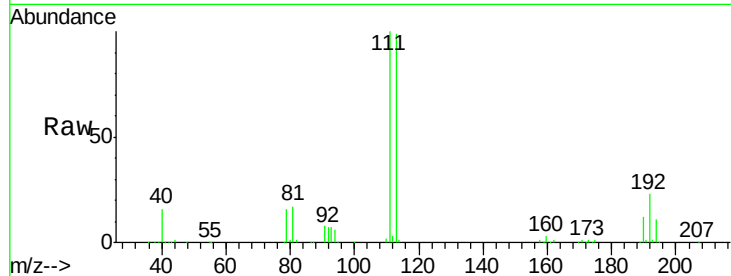




#35
 Dibromofluoromethane
 Concen: 47.875 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054284.D
 Acq: 15 Mar 2019 2:16

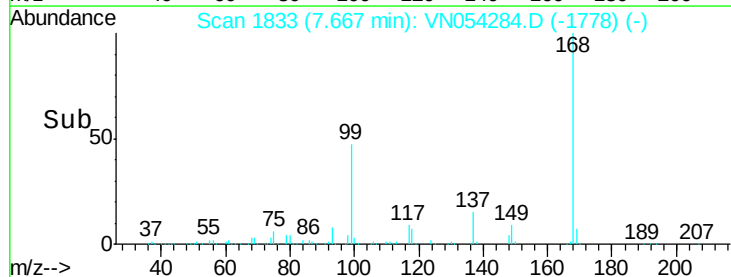
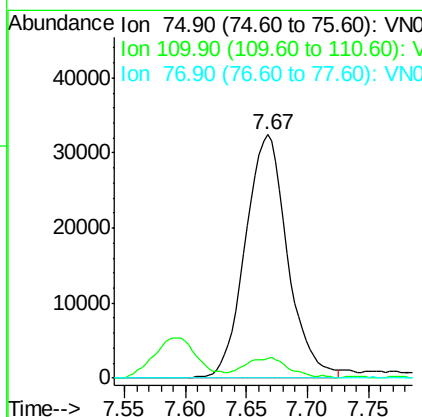
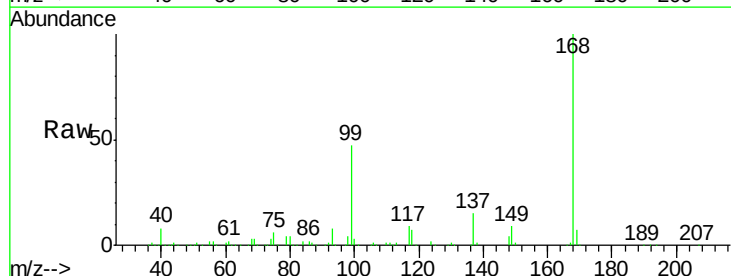
Instrument :
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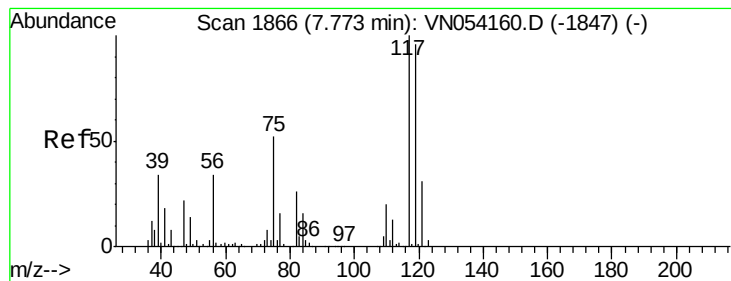
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.2	82.2	123.4
192	24.1	19.2	28.8



#36
 1,1-Dichloropropene
 Concen: 3.745 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN054284.D
 Acq: 15 Mar 2019 2:16

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	19.1	57.5#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 5.035 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN054284.D

Acq: 15 Mar 2019 2:16

Instrument :

MSVOA_N

ClientSampleId :

PB117849TB

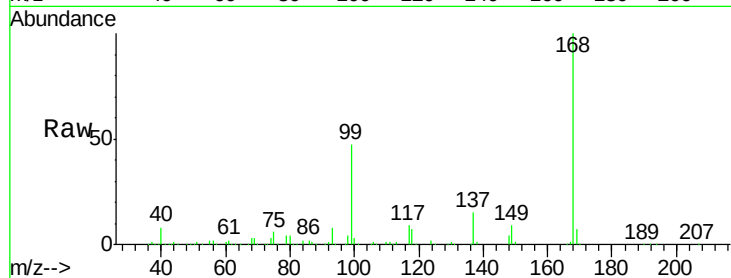
Tot Ion:117 Resp: 109444

Ion Ratio Lower Upper

117 100

119 4.8 76.3 114.5#

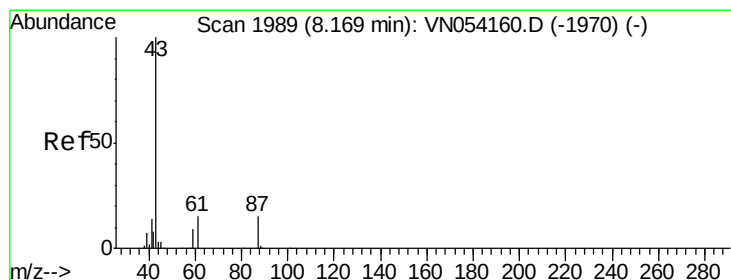
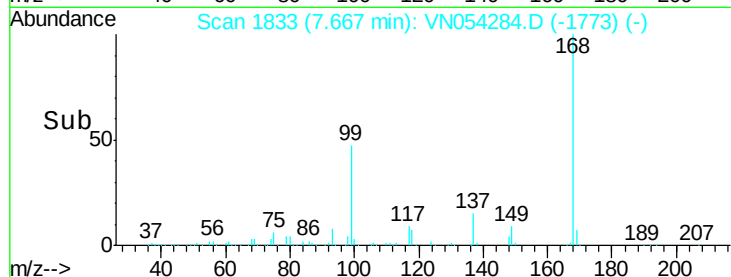
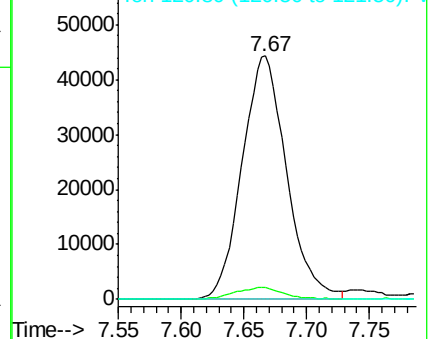
121 0.0 24.6 36.8#



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: 2.000 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN054284.D

Acq: 15 Mar 2019 2:16

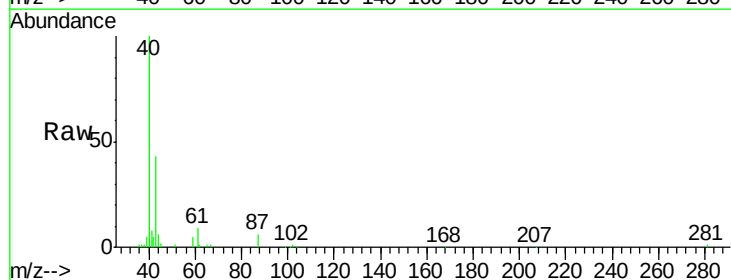
Tgt Ion: 43 Resp: 41797

Ion Ratio Lower Upper

43 100

61 23.8 15.8 23.8#

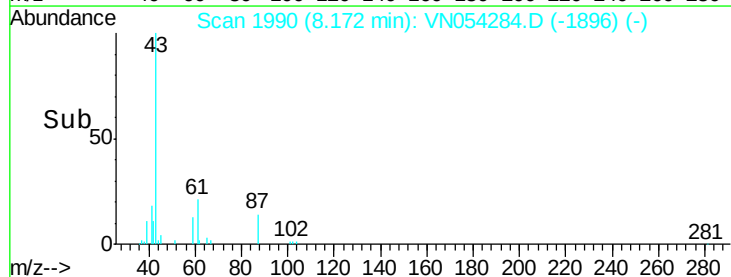
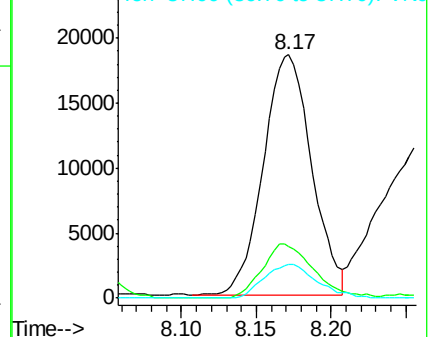
87 15.2 12.0 18.0

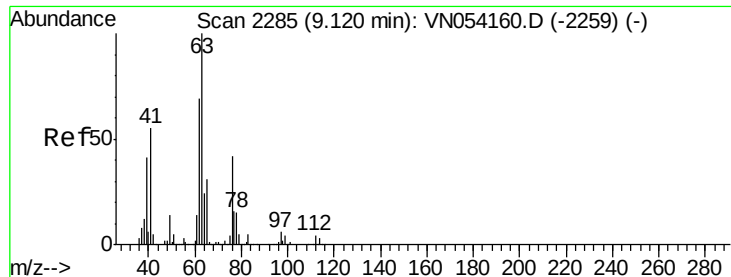


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

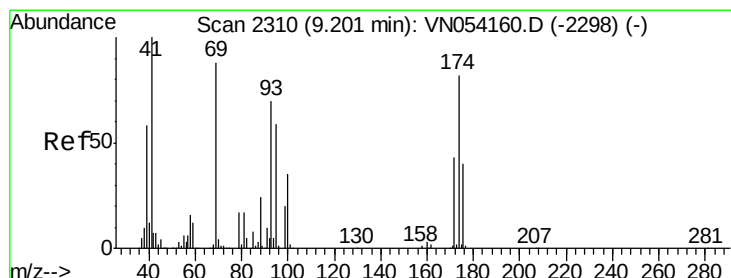
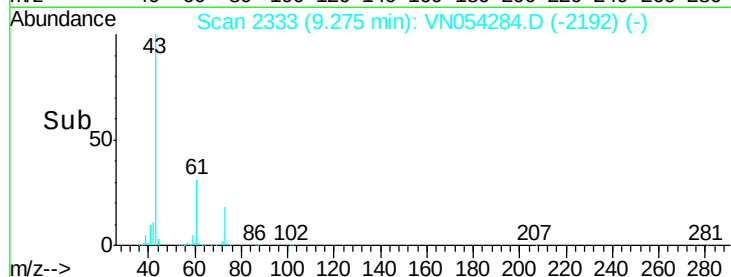
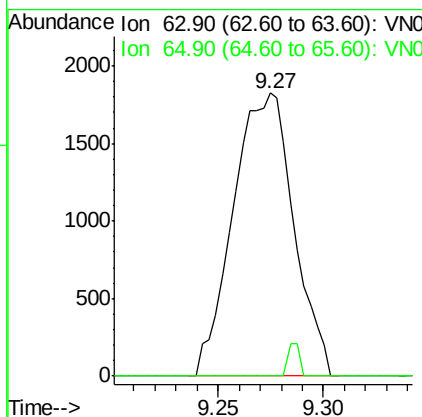
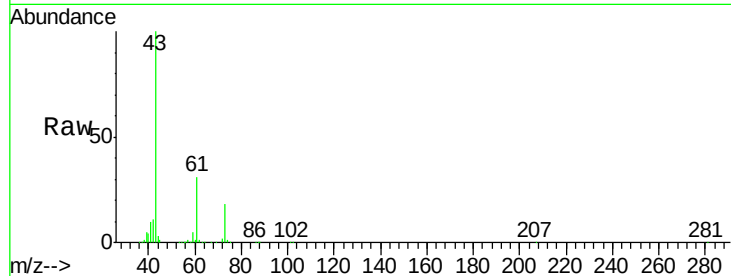




#45
 1,2-Dichloropropane
 Concen: 0.248 ug/l
 RT: 9.27 min Scan# 2333
 Delta R.T. 0.15 min
 Lab File: VN054284.D
 Acq: 15 Mar 2019 2:16

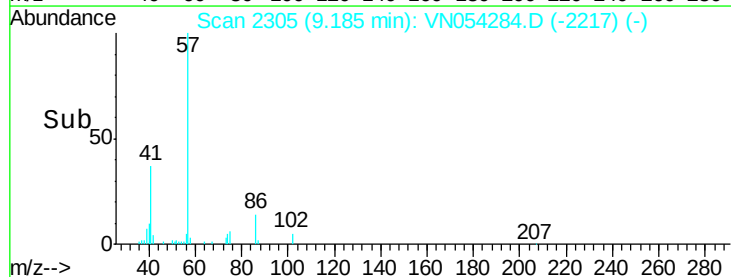
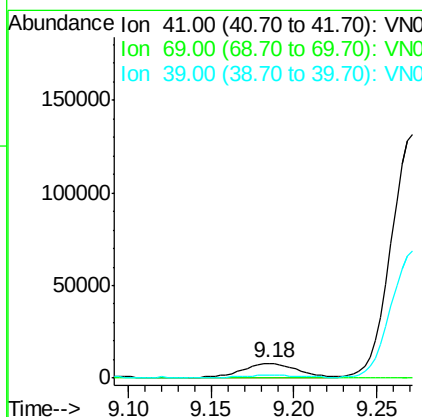
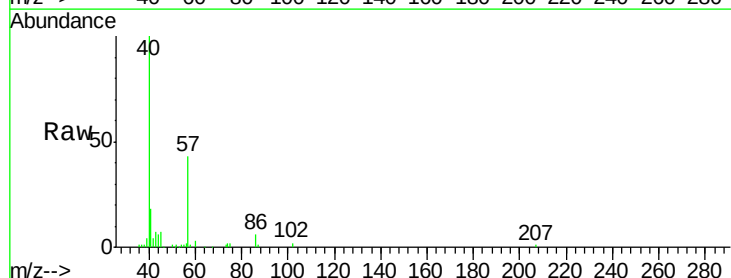
Instrument :
 MSVOA_N
 ClientSampleId :
 PB117849TB

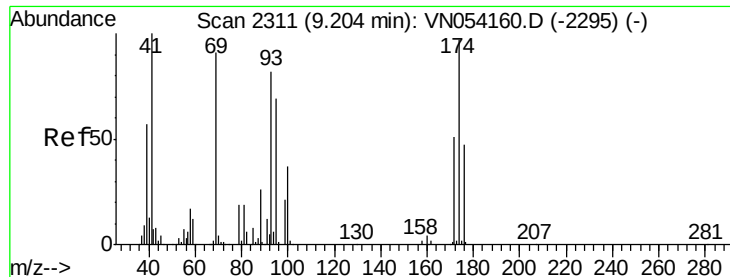
Tot Ion: 63 Resp: 3645
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.6#



#48
 Methyl methacrylate
 Concen: 1.583 ug/l
 RT: 9.18 min Scan# 2305
 Delta R.T. -0.02 min
 Lab File: VN054284.D
 Acq: 15 Mar 2019 2:16

Tgt Ion: 41 Resp: 16788
 Ion Ratio Lower Upper
 41 100
 69 0.5 72.6 108.8#
 39 0.0 47.5 71.3#





#49

1,4-Dioxane

Concen: 2.266 ug/l

RT: 9.28 min Scan# 2334

Delta R.T. 0.07 min

Lab File: VN054284.D

Acq: 15 Mar 2019 2:16

Instrument :

MSVOA_N

ClientSampled :

PB117849TB

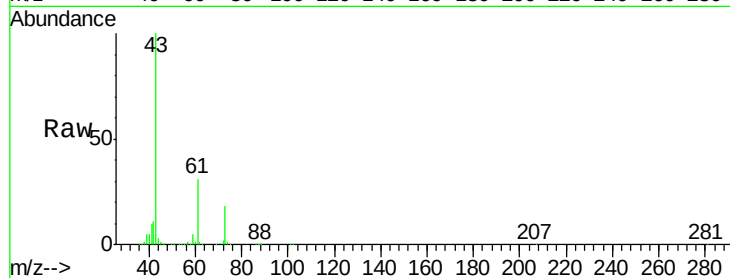
Tot Ion: 88 Resp: 340

Ion Ratio Lower Upper

88 100

43 797284.4 24.1 36.1#

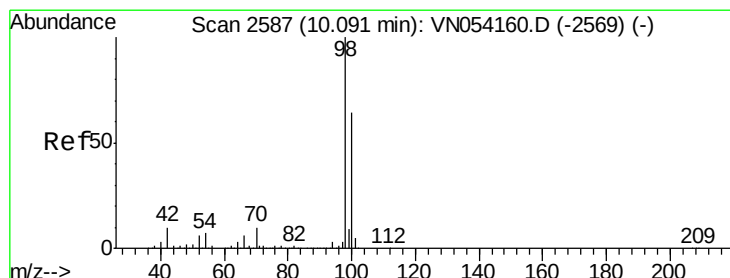
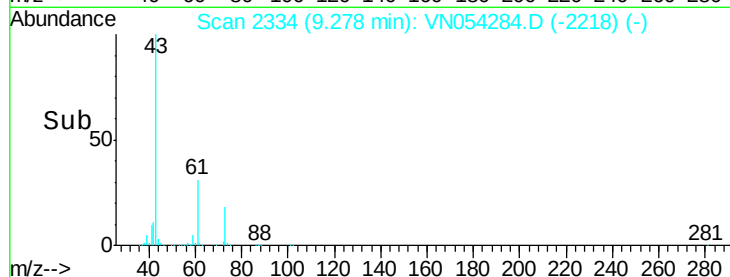
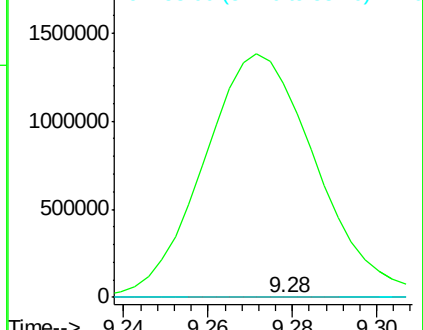
58 3377.6 50.8 76.2#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 52.498 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054284.D

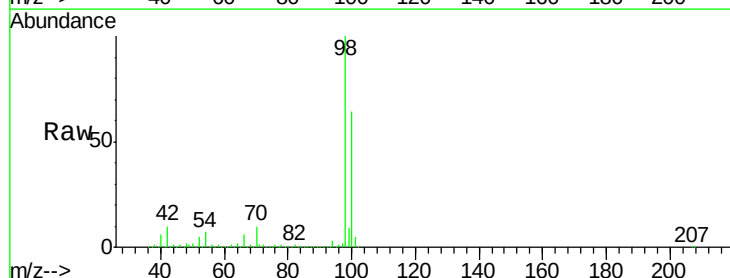
Acq: 15 Mar 2019 2:16

Tgt Ion: 98 Resp: 2814298

Ion Ratio Lower Upper

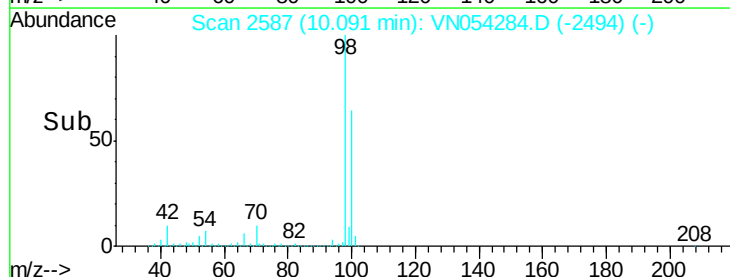
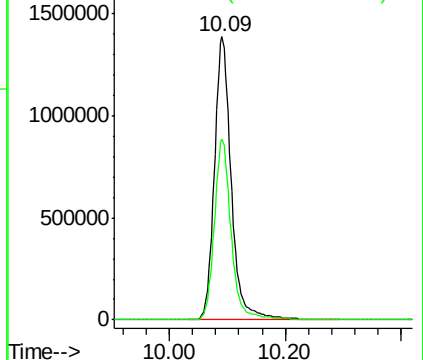
98 100

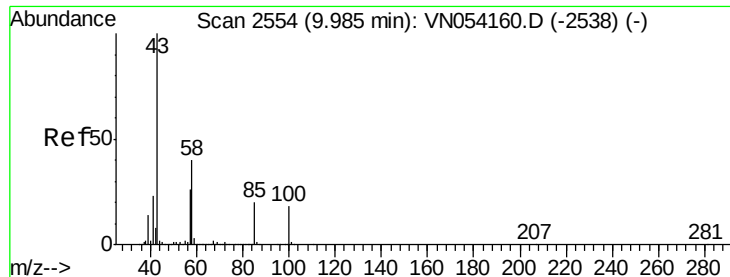
100 63.5 51.2 76.8



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: 1.593 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN054284.D

Acq: 15 Mar 2019 2:16

Instrument :

MSVOA_N

ClientSampled :

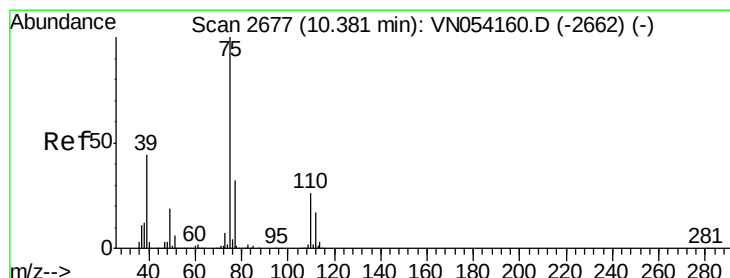
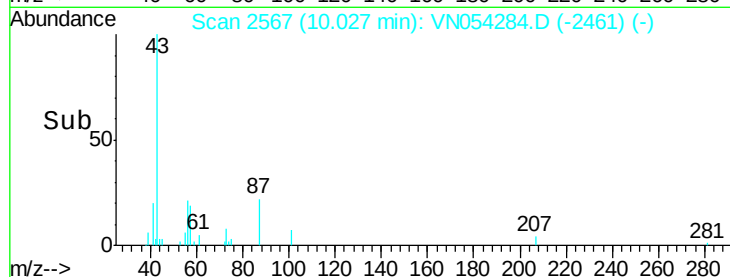
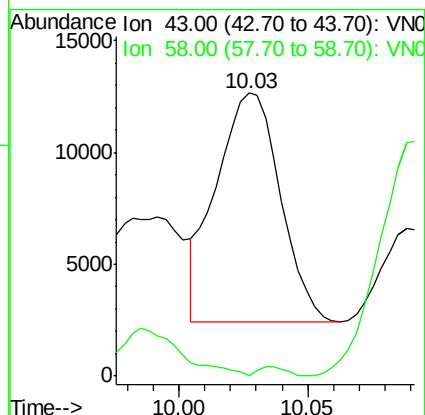
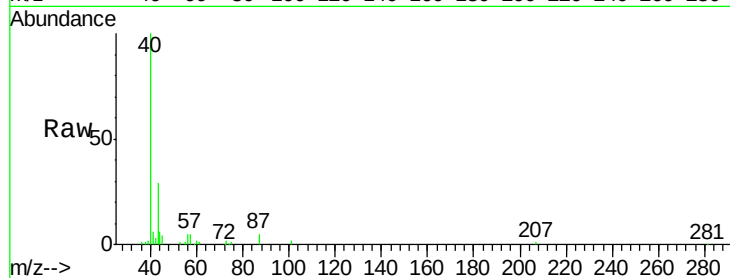
PB117849TB

Tot Ion: 43 Resp: 17618

Ion Ratio Lower Upper

43 100

58 0.0 31.8 47.6#



#53

t-1,3-Dichloropropene

Concen: 2.008 ug/l

RT: 10.39 min Scan# 2680

Delta R.T. 0.01 min

Lab File: VN054284.D

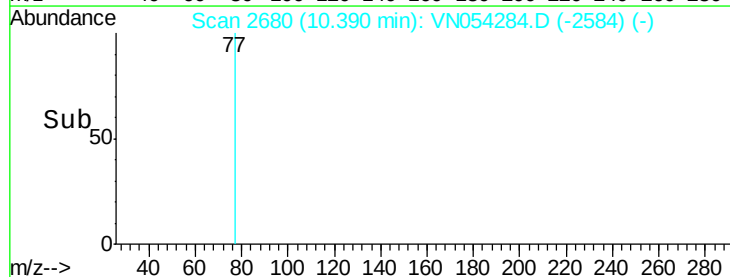
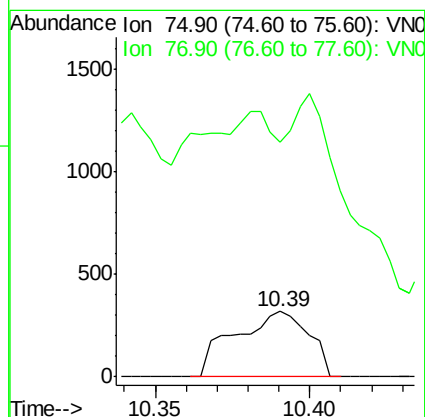
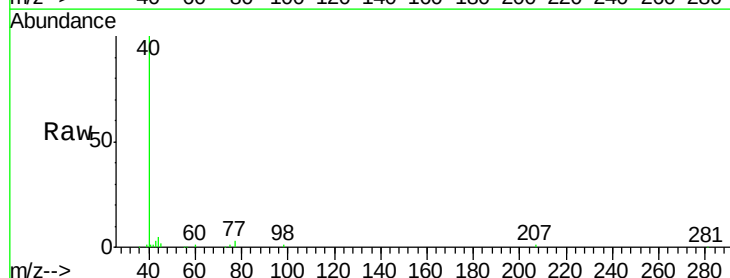
Acq: 15 Mar 2019 2:16

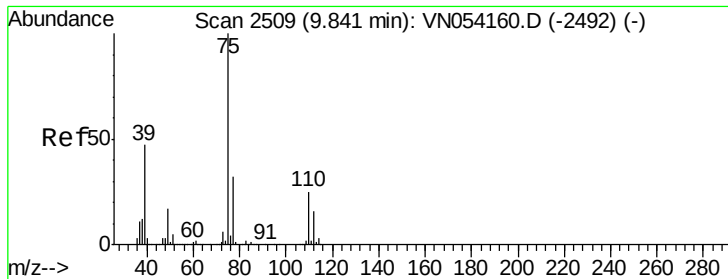
Tgt Ion: 75 Resp: 536

Ion Ratio Lower Upper

75 100

77 74.6 25.8 38.8#





#54

cis-1,3-Dichloropropene

Concen: 6.031 ug/l

RT: 9.91 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN054284.D

Acq: 15 Mar 2019 2:16

Instrument :

MSVOA_N

ClientSampleId :

PB117849TB

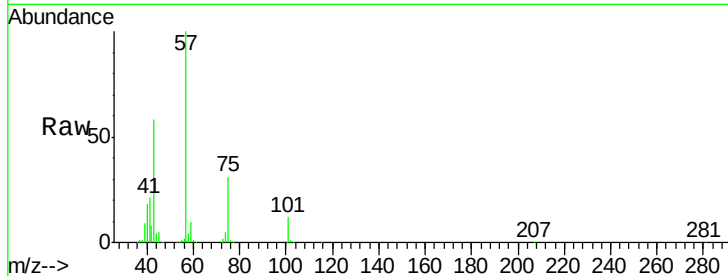
Tot Ion: 75 Resp: 140197

Ion Ratio Lower Upper

75 100

77 0.7 25.4 38.0#

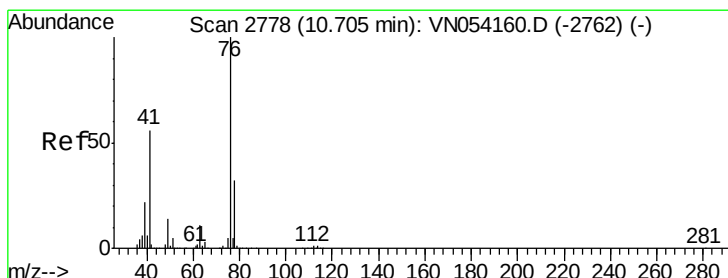
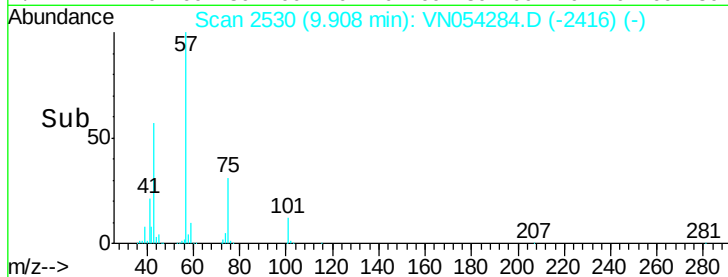
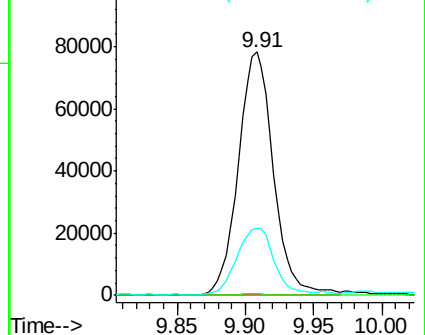
39 27.3 37.2 55.8#



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: 1.128 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN054284.D

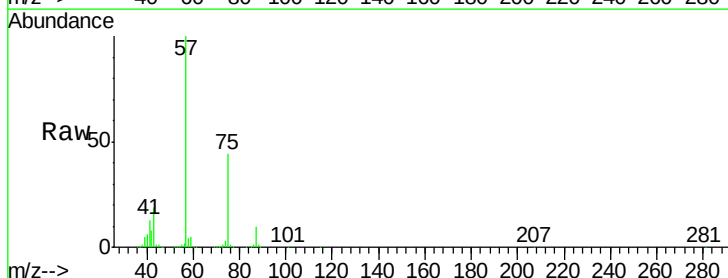
Acq: 15 Mar 2019 2:16

Tgt Ion: 76 Resp: 25320

Ion Ratio Lower Upper

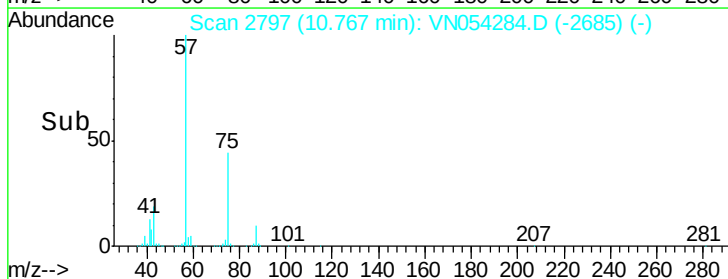
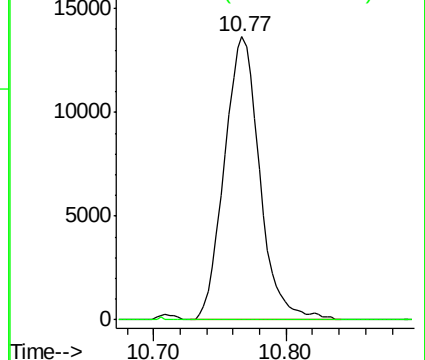
76 100

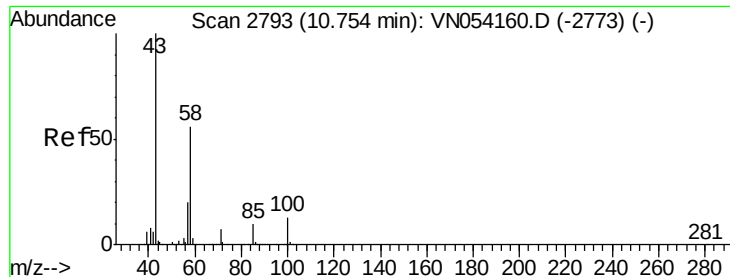
78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 44.025 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN054284.D

Acq: 15 Mar 2019 2:16

Instrument :

MSVOA_N

ClientSampled :

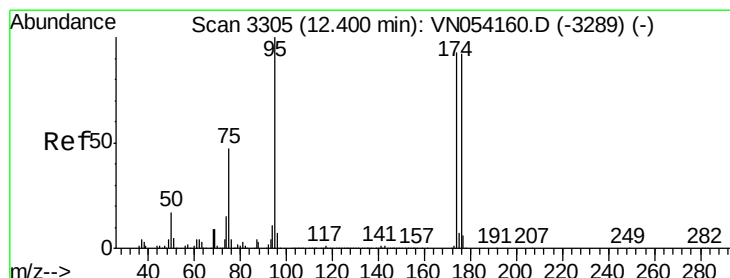
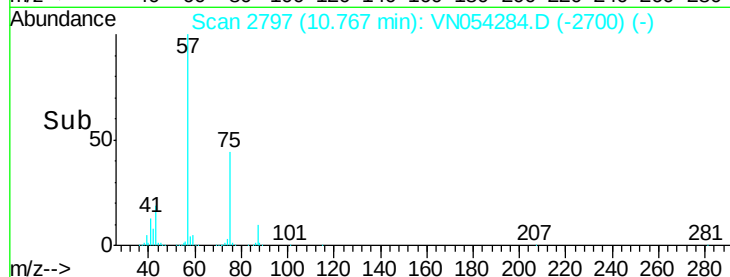
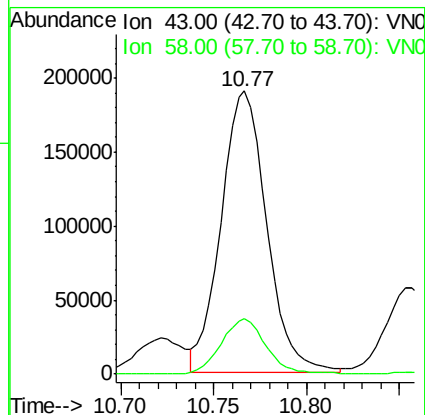
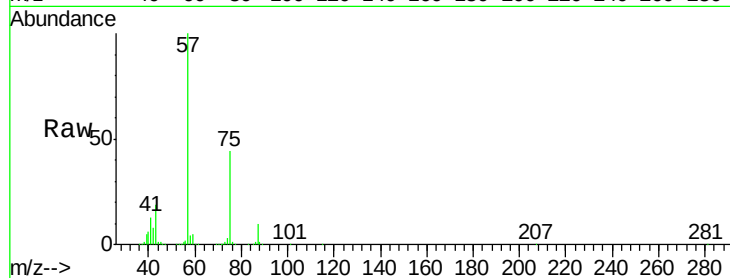
PB117849TB

Tot Ion: 43 Resp: 324057

Ion Ratio Lower Upper

43 100

58 19.5 28.0 83.9#



#62

4-Bromofluorobenzene

Concen: 56.194 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054284.D

Acq: 15 Mar 2019 2:16

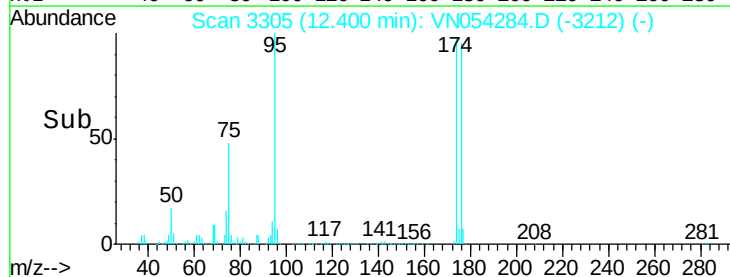
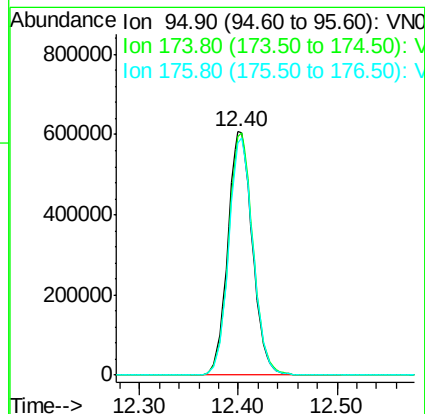
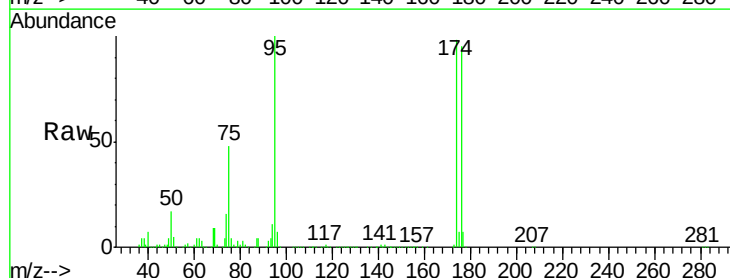
Tgt Ion: 95 Resp: 1054053

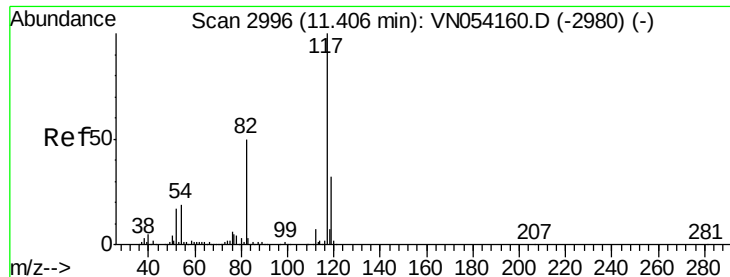
Ion Ratio Lower Upper

95 100

174 98.3 0.0 191.0

176 95.9 0.0 187.4

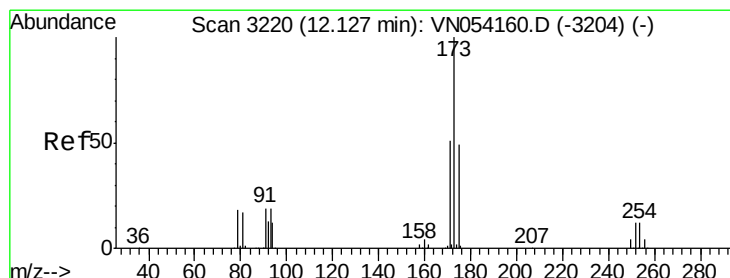
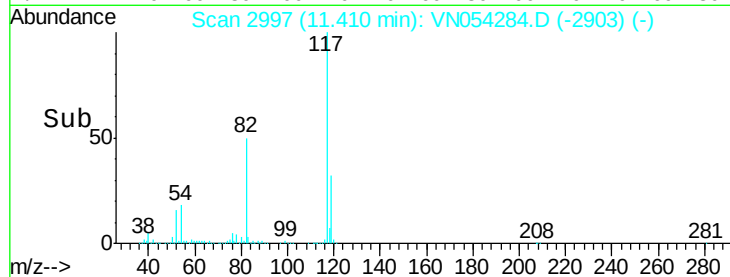
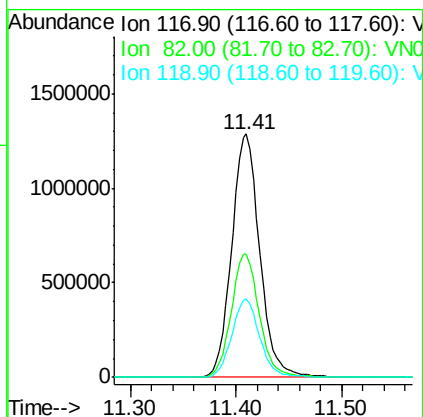
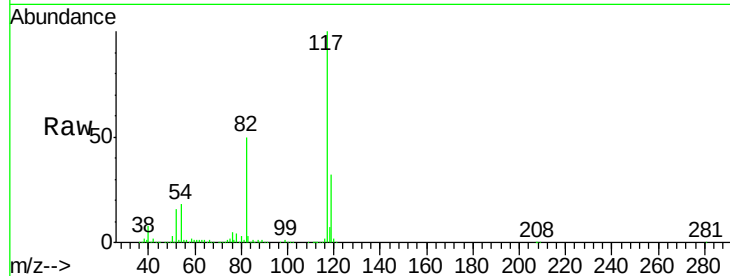




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN054284.D
Acq: 15 Mar 2019 2:16

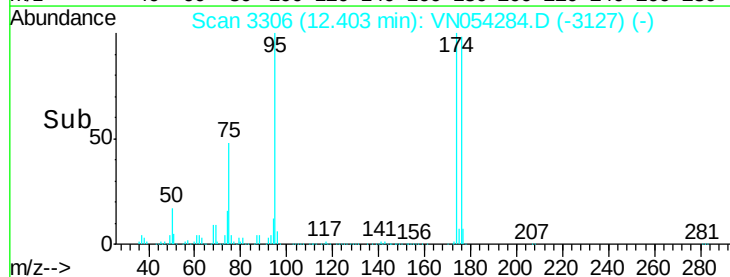
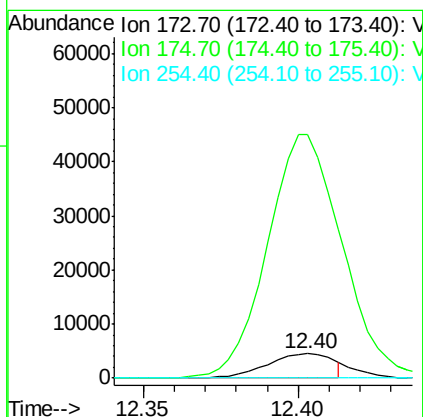
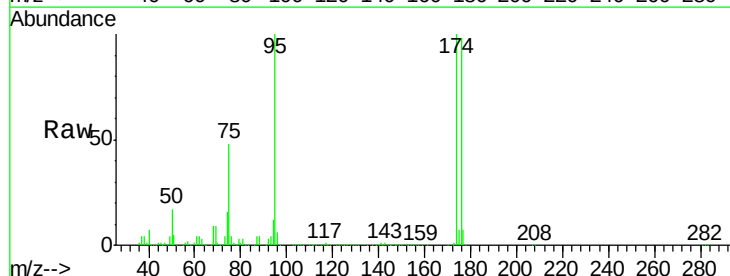
Instrument :
MSVOA_N
ClientSampled :
PB117849TB

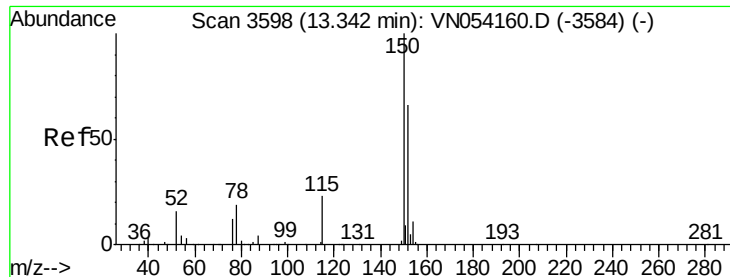
Tot Ion:117 Resp: 2361744
Ion Ratio Lower Upper
117 100
82 50.4 40.0 60.0
119 32.1 25.8 38.6



#71
Bromoform
Concen: 2.791 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN054284.D
Acq: 15 Mar 2019 2:16

Tgt Ion:173 Resp: 6642
Ion Ratio Lower Upper
173 100
175 967.9 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: VN054284.D

Acq: 15 Mar 2019 2:16

Instrument :

MSVOA_N

ClientSampleId :

PB117849TB

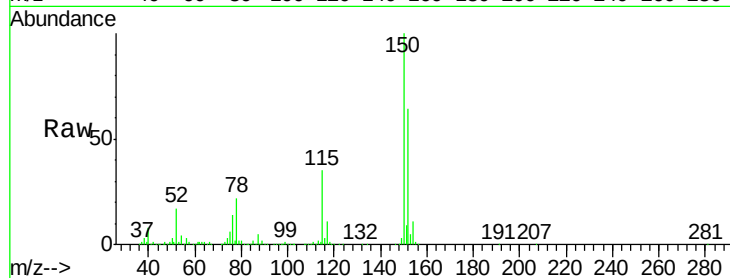
Tot Ion:152 Resp: 982599

Ion Ratio Lower Upper

152 100

115 54.2 27.2 81.6

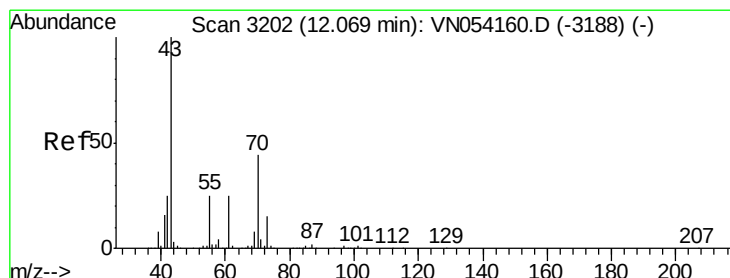
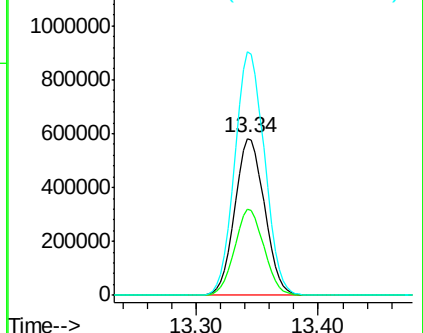
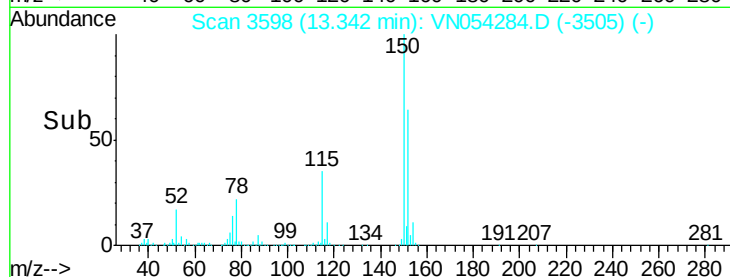
150 155.9 0.0 349.2



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: 1.960 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN054284.D

Acq: 15 Mar 2019 2:16

Tgt Ion: 43 Resp: 34197

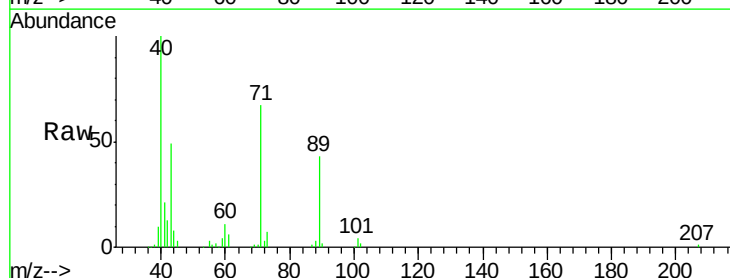
Ion Ratio Lower Upper

43 100

70 2.5 35.4 53.0#

55 4.1 19.8 29.6#

61 12.6 19.8 29.6#

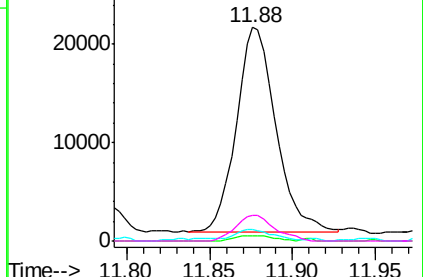
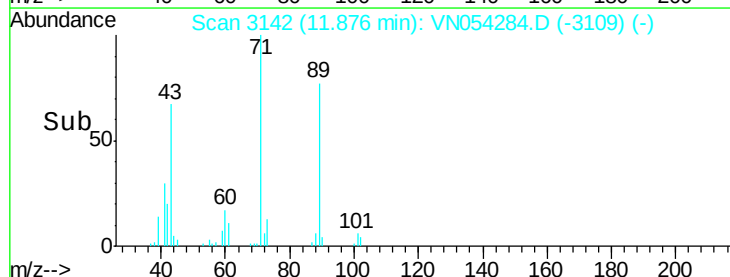


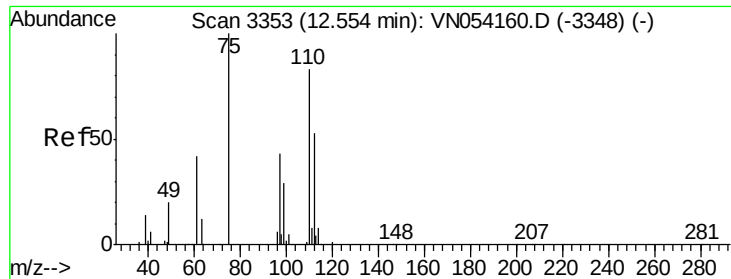
Abundance Ion 43.00 (42.70 to 43.70): V

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





#76

1,2,3-Trichloropropane

Concen: 34.838 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN054284.D

Acq: 15 Mar 2019 2:16

Instrument :

MSVOA_N

ClientSampleId :

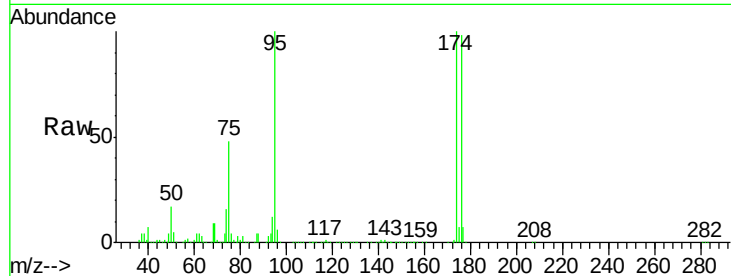
PB117849TB

Tot Ion: 75 Resp: 503394

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

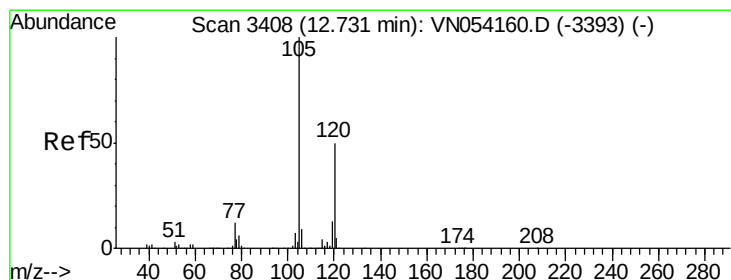
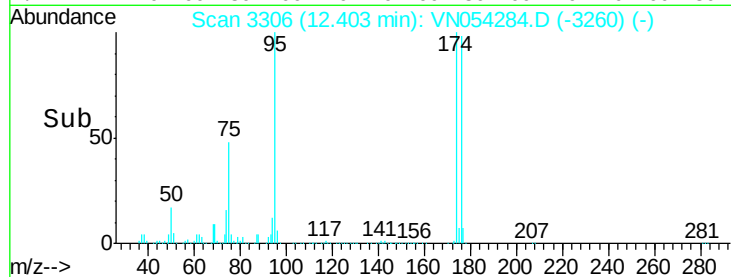
300000

200000

100000

0

Time--> 12.30 12.40 12.50



#80

1,3,5-Trimethylbenzene

Concen: 0.243 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN054284.D

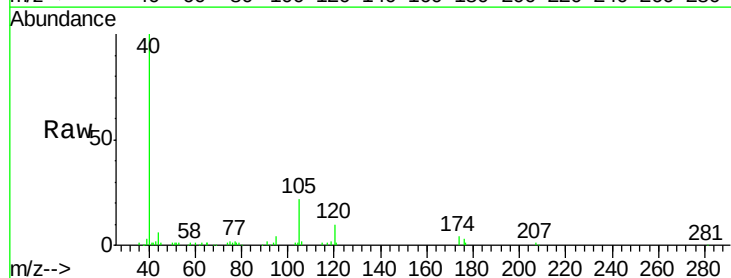
Acq: 15 Mar 2019 2:16

Tgt Ion: 105 Resp: 15918

Ion Ratio Lower Upper

105 100

120 47.5 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.73

10000

8000

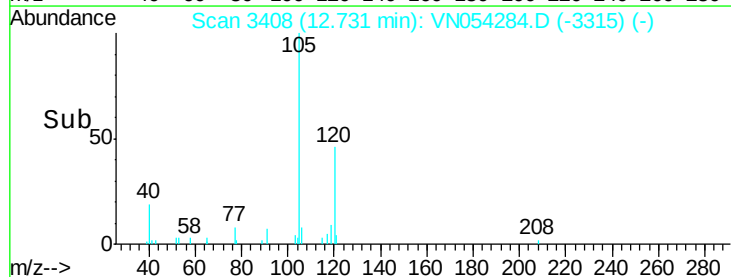
6000

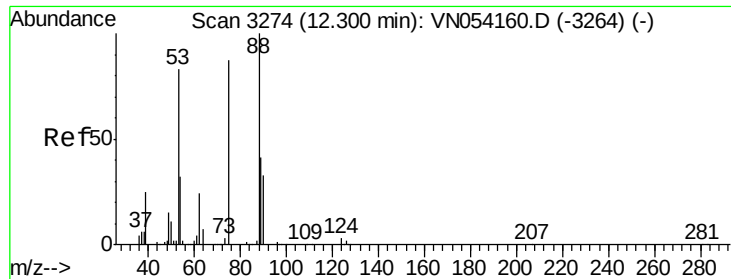
4000

2000

0

Time--> 12.70 12.75

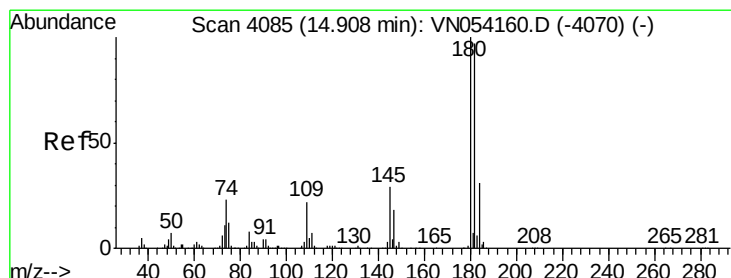
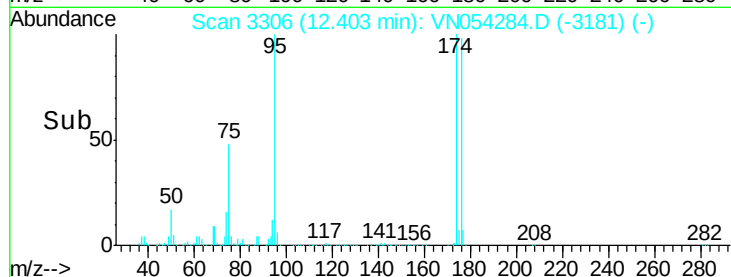
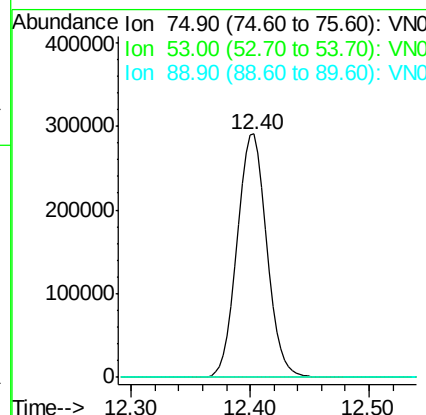
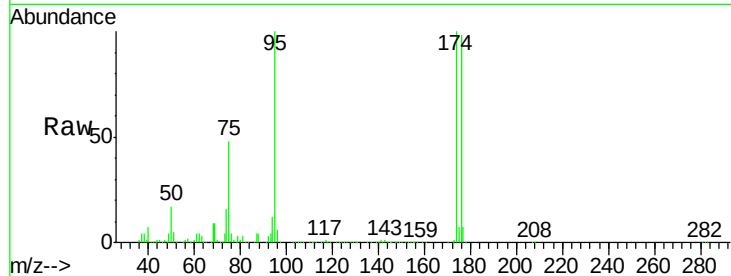




#81
trans-1,4-Dichloro-2-butene
Concen: 119.092 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN054284.D
Acq: 15 Mar 2019 2:16

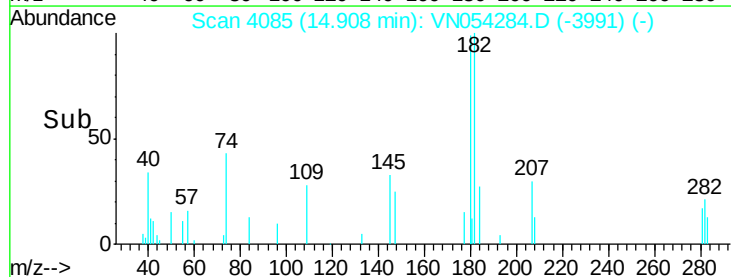
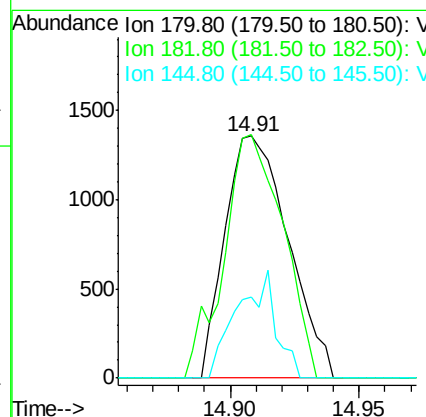
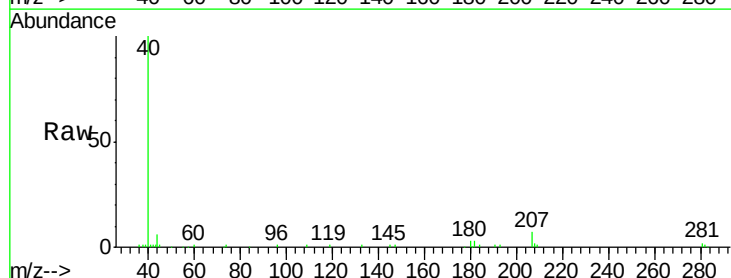
Instrument :
MSVOA_N
ClientSampled :
PB117849TB

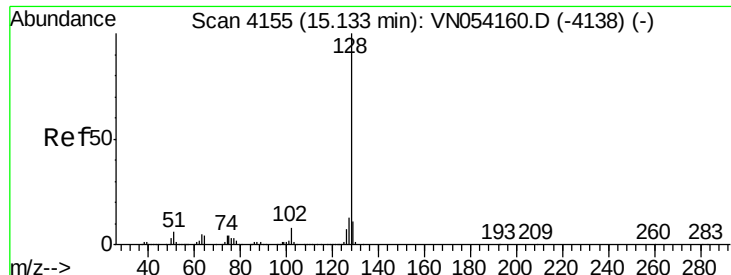
Tot Ion: 75 Resp: 503394
Ion Ratio Lower Upper
75 100
53 0.0 76.2 114.2#
89 0.0 39.2 58.8#



#93
1,2,4-Trichlorobenzene
Concen: 2.623 ug/l
RT: 14.91 min Scan# 4085
Delta R.T. 0.00 min
Lab File: VN054284.D
Acq: 15 Mar 2019 2:16

Tgt Ion: 180 Resp: 2322
Ion Ratio Lower Upper
180 100
182 93.9 48.0 144.2
145 27.1 14.2 42.8





#95
Naphthalene
Concen: 3.799 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.00 min
Lab File: VN054284.D
Acq: 15 Mar 2019 2:16

Instrument :
MSVOA_N
ClientSampleId :
PB117849TB

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.1	15.1
129	10.4	8.7	13.1

