

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060519\
 Data File : VN055999.D
 Acq On : 5 Jun 2019 10:46
 Operator : JC/SP
 Sample : PB120320TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 06 01:19:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	390035	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	594372	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	556063	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	182017	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	189198	48.85	ug/l	0.00
Spiked Amount			Recovery	=	97.70%	
35) Dibromofluoromethane	7.59	113	170044	46.63	ug/l	0.00
Spiked Amount			Recovery	=	93.26%	
50) Toluene-d8	10.09	98	706967	50.38	ug/l	0.00
Spiked Amount			Recovery	=	100.76%	
62) 4-Bromofluorobenzene	12.40	95	229469	48.09	ug/l	0.00
Spiked Amount			Recovery	=	96.18%	

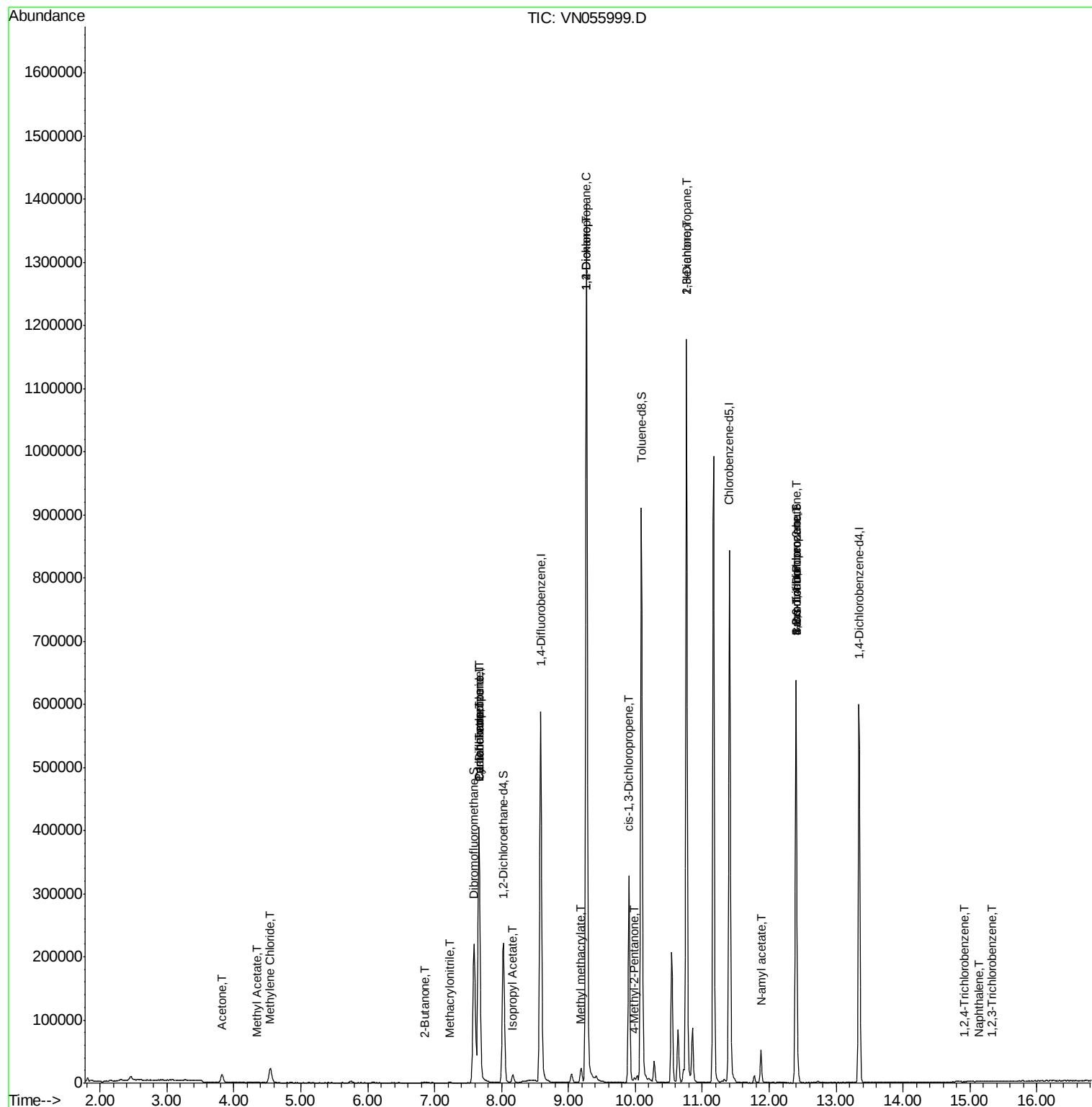
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	22862	12.343	ug/l	100
18) Methyl Acetate	4.34	43	3306	0.334	ug/l #	57
20) Methylene Chloride	4.54	84	19041	4.990	ug/l	94
25) 2-Butanone	6.85	43	1143	0.488	ug/l	95
31) Cyclohexane	7.66	56	5552	0.903	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	22245	4.353	ug/l #	48
38) Carbon Tetrachloride	7.66	117	31083	6.597	ug/l #	14
41) Methacrylonitrile	7.23	41	447	0.214	ug/l #	19
43) Isopropyl Acetate	8.17	43	15636	2.122	ug/l #	90
45) 1,2-Dichloropropane	9.27	63	1866	0.469	ug/l #	44
48) Methyl methacrylate	9.18	41	8977	2.490	ug/l #	12
49) 1,4-Dioxane	9.26	88	176	2.261	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	4573	0.992	ug/l	93
54) cis-1,3-Dichloropropene	9.90	75	65827	11.622	ug/l #	58
57) 1,3-Dichloropropane	10.76	76	12441	2.000	ug/l #	42
59) 2-Hexanone	10.76	43	163628	48.993	ug/l #	51
71) Bromoform	12.40	173	1461	3.173	ug/l #	1
73) Isopropylbenzene	12.40	105	91	Below Cal	#	48
74) N-amyl acetate	11.88	43	14760	3.042	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	102138	30.496	ug/l #	100
79) 2-Chlorotoluene	12.59	91	220	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	102138	101.558	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	29	4.278	ug/l #	12
95) Naphthalene	15.14	128	294	3.882	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	29	3.039	ug/l #	12

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

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Quant Title : SW846 8260
QLast Update : Tue Jun 04 11:02:09 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN055999.D

Acq: 5 Jun 2019 10:46

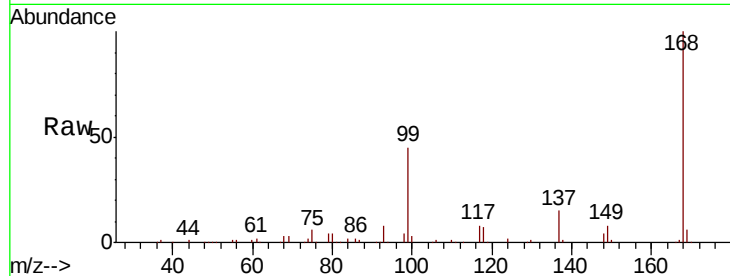
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 390035

Ion Ratio Lower Upper

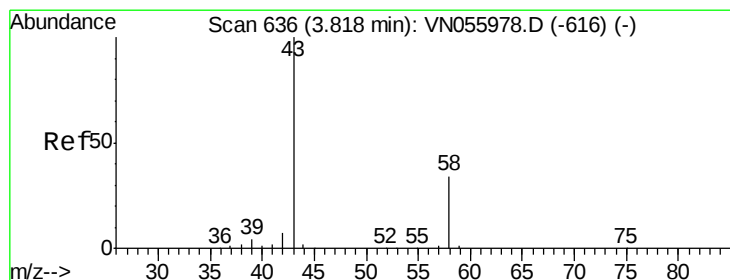
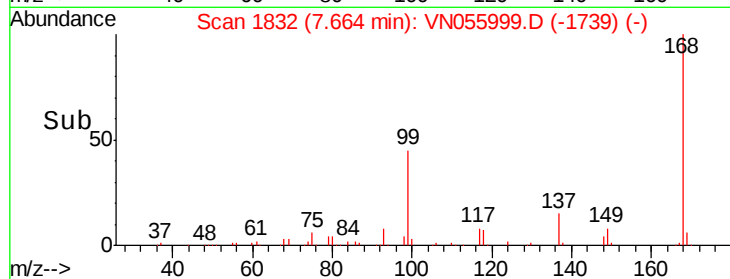
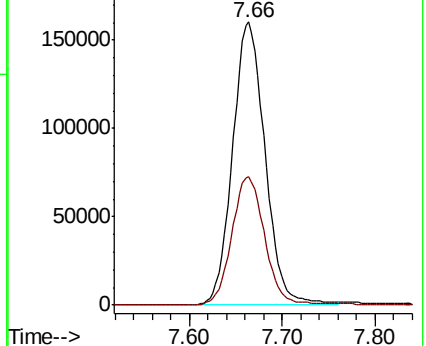
168 100

99 45.2 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 12.343 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN055999.D

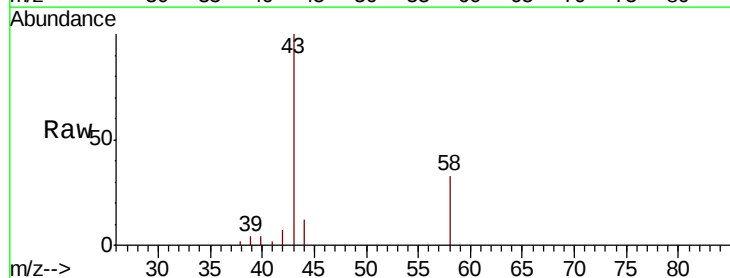
Acq: 5 Jun 2019 10:46

Tgt Ion: 43 Resp: 22862

Ion Ratio Lower Upper

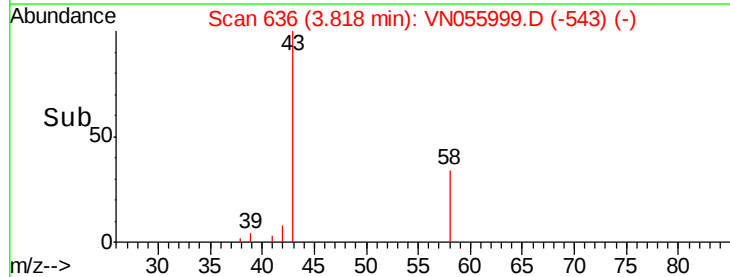
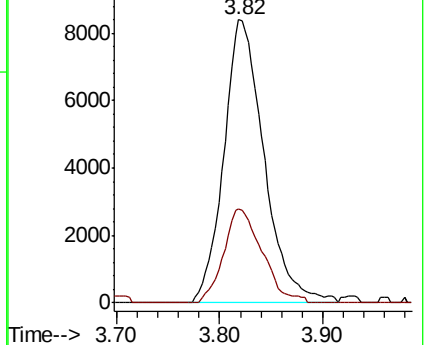
43 100

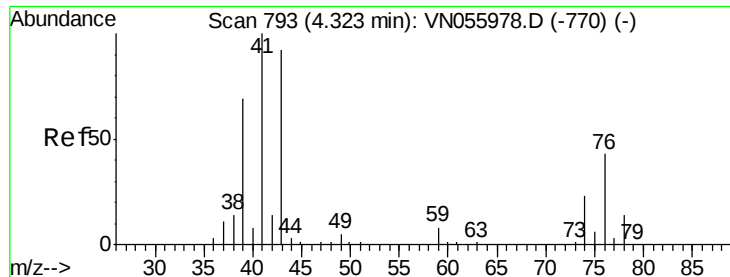
58 33.3 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

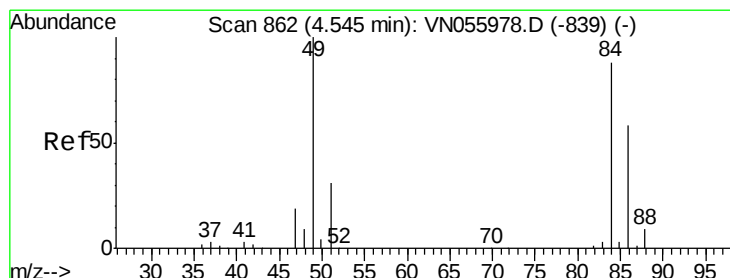
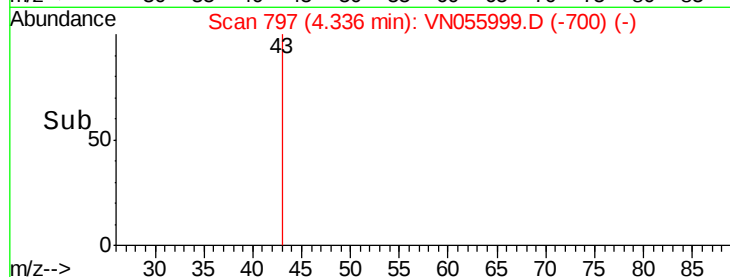
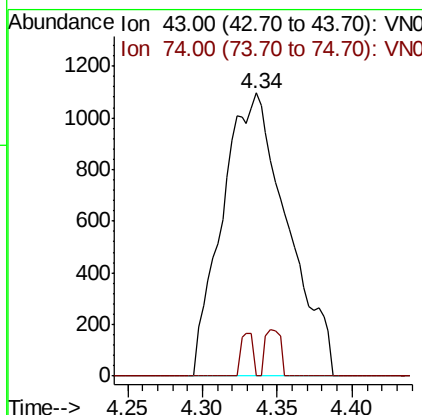
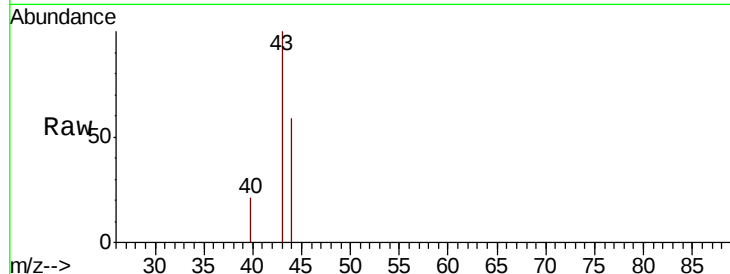




#18
Methyl Acetate
Concen: 0.334 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN055999.D
Acq: 5 Jun 2019 10:46

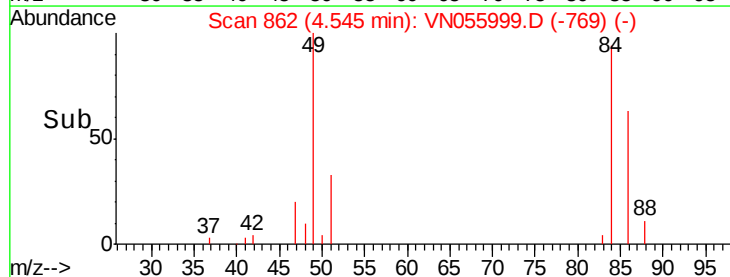
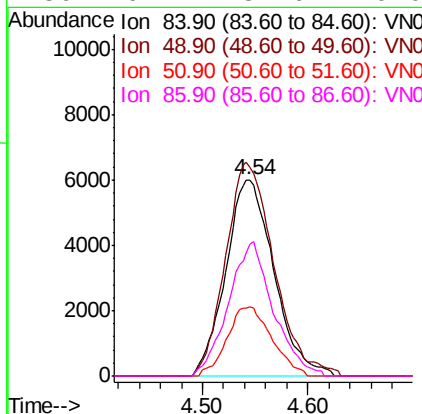
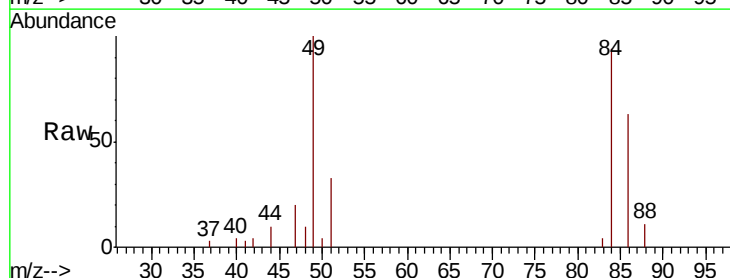
Instrument :
MSVOA_N
ClientSampled :

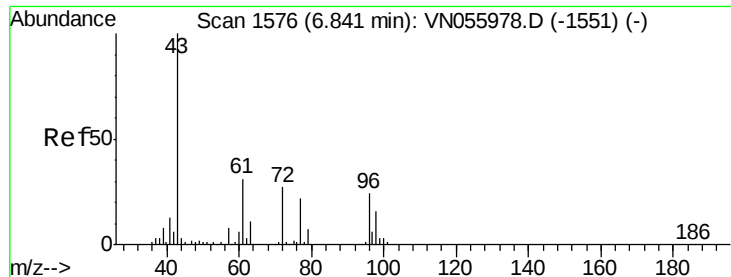
Tot Ion: 43 Resp: 3306
Ion Ratio Lower Upper
43 100
74 2.8 19.3 28.9#



#20
Methylene Chloride
Concen: 4.990 ug/l
RT: 4.54 min Scan# 862
Delta R.T. -0.00 min
Lab File: VN055999.D
Acq: 5 Jun 2019 10:46

Tgt Ion: 84 Resp: 19041
Ion Ratio Lower Upper
84 100
49 106.2 93.5 140.3
51 35.4 28.6 43.0
86 67.4 52.6 79.0

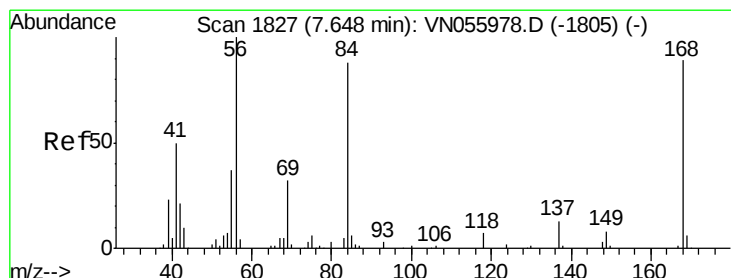
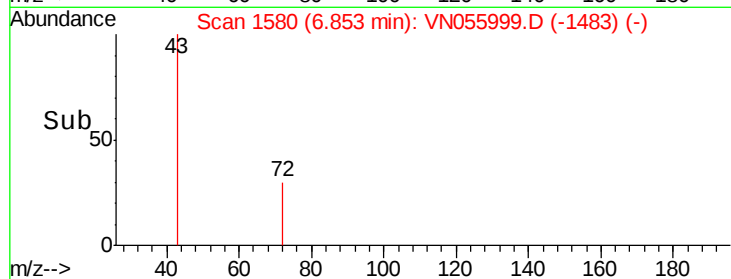
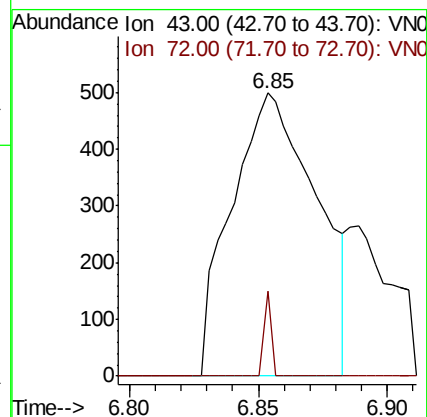
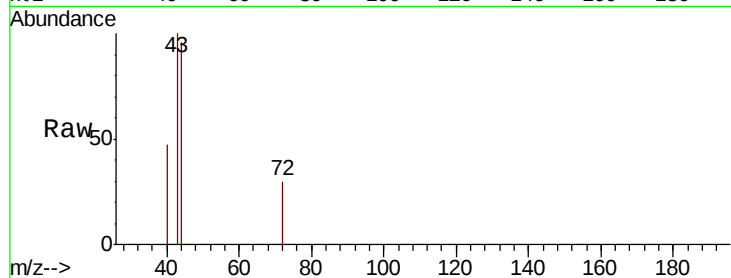




#25
2-Butanone
Concen: 0.488 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.01 min
Lab File: VN055999.D
Acq: 5 Jun 2019 10:46

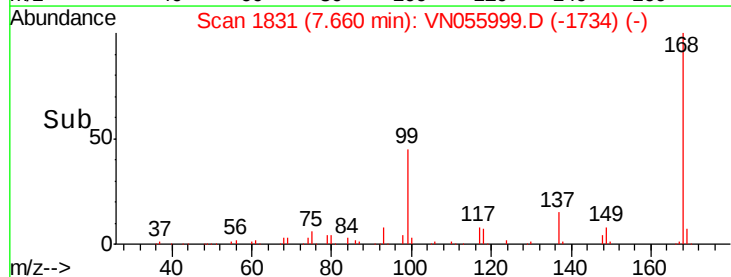
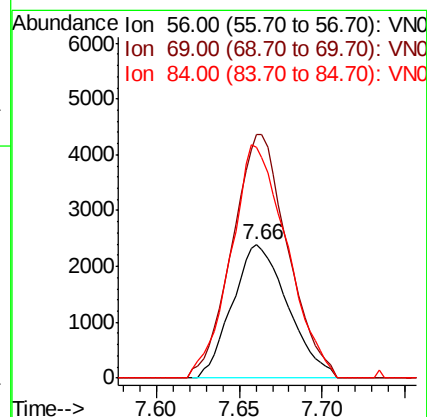
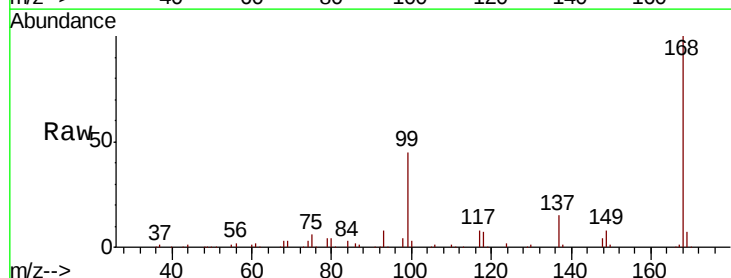
Instrument :
MSVOA_N
ClientSampled :

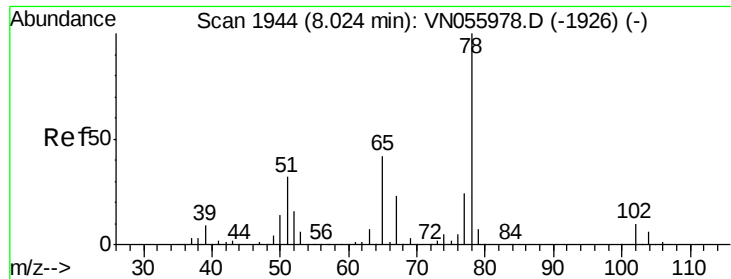
Tot Ion: 43 Resp: 1143
Ion Ratio Lower Upper
43 100
72 30.1 21.9 32.9



#31
Cyclohexane
Concen: 0.903 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN055999.D
Acq: 5 Jun 2019 10:46

Tgt Ion: 56 Resp: 5552
Ion Ratio Lower Upper
56 100
69 182.5 25.6 38.4#
84 173.6 67.4 101.0#

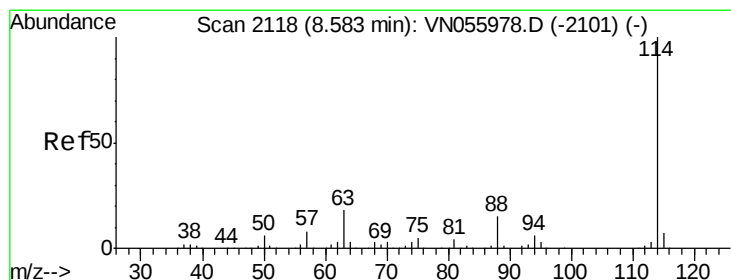
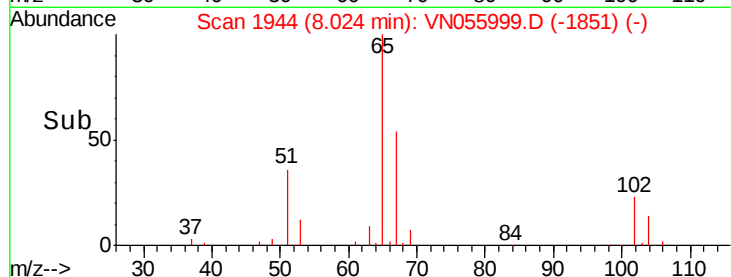
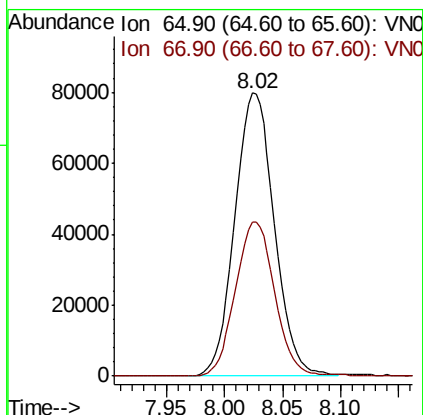
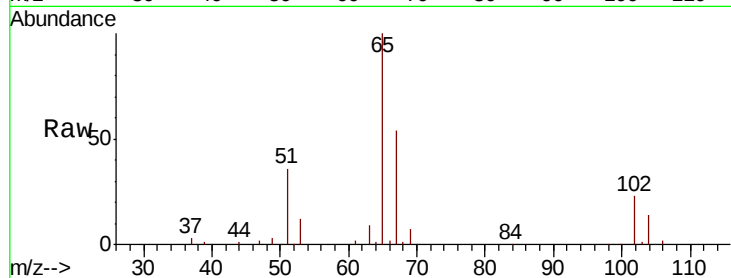




#33
 1,2-Dichloroethane-d4
 Concen: 48.854 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN055999.D
 Acq: 5 Jun 2019 10:46

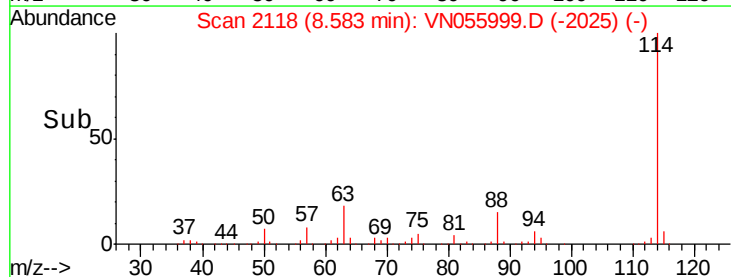
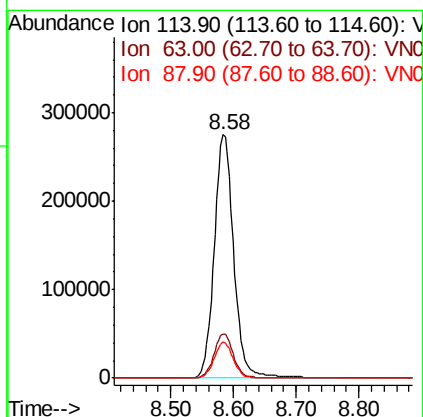
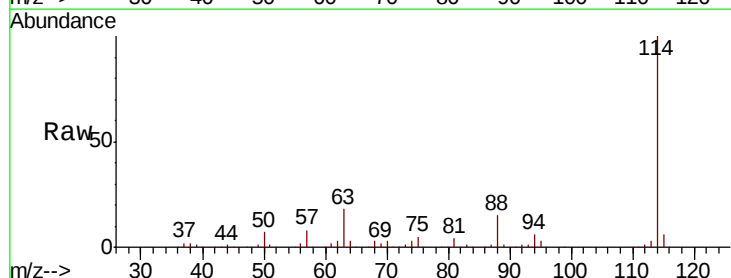
Instrument :
 MSVOA_N
 ClientSampleId :

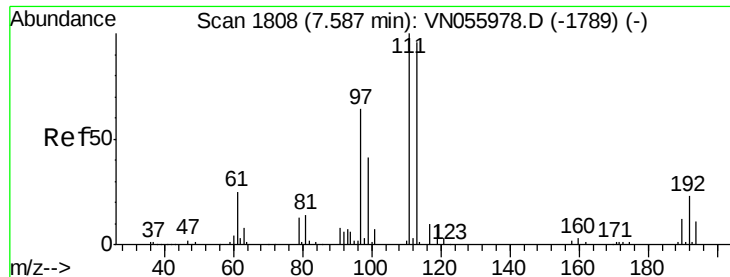
Tot Ion: 65 Resp: 189198
 Ion Ratio Lower Upper
 65 100
 67 54.2 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN055999.D
 Acq: 5 Jun 2019 10:46

Tgt Ion: 114 Resp: 594372
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 39.2
 88 14.7 0.0 31.0

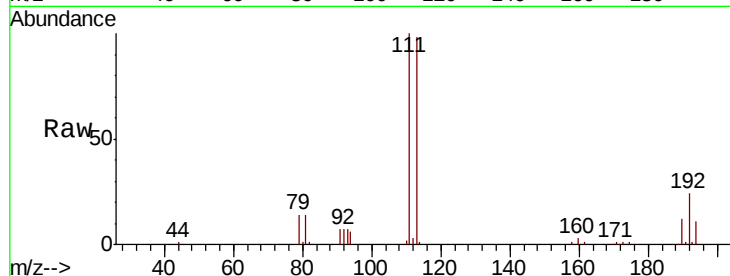




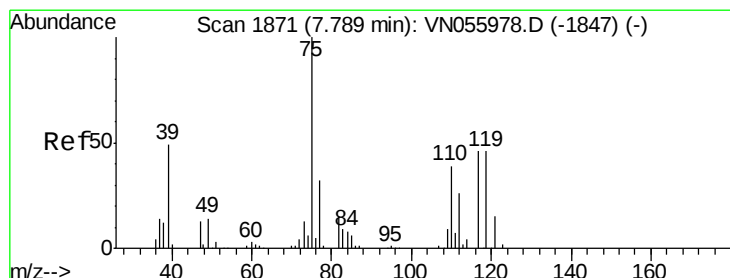
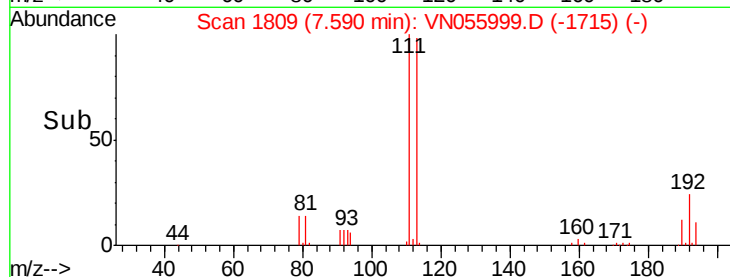
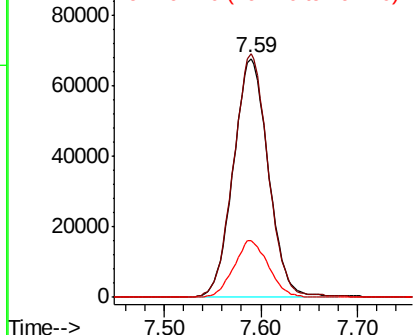
#35
 Dibromofluoromethane
 Concen: 46.630 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN055999.D
 Acq: 5 Jun 2019 10:46

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:113 Resp: 170044
 Ion Ratio Lower Upper
 113 100
 111 101.2 81.9 122.9
 192 23.7 19.5 29.3

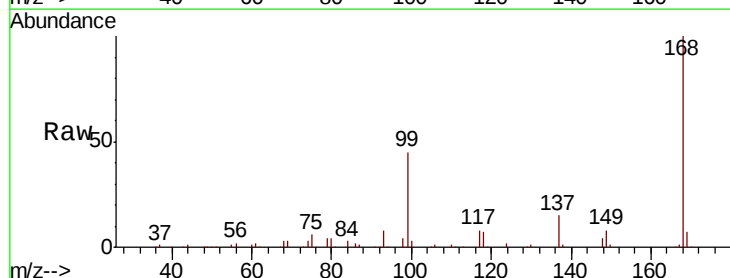


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

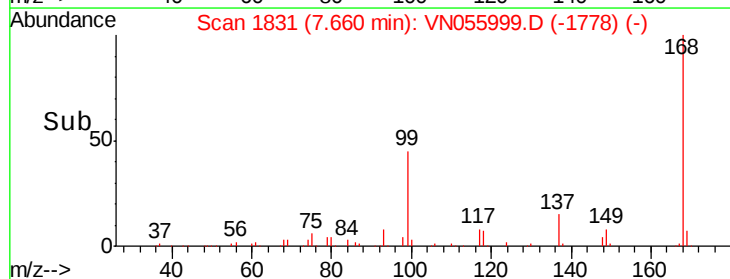
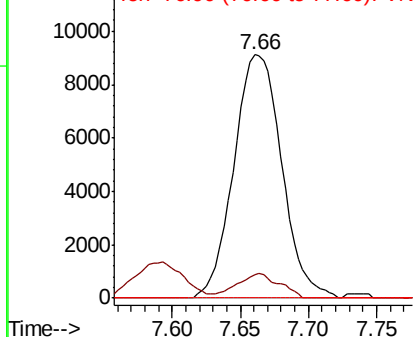


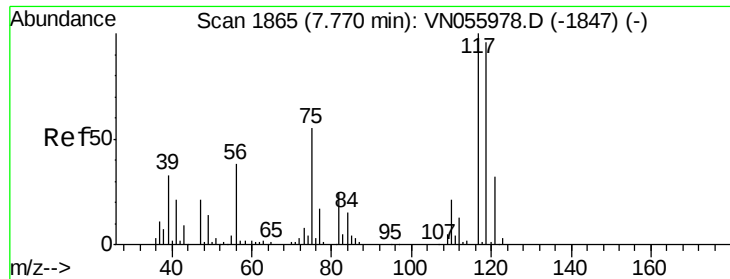
#36
 1,1-Dichloropropene
 Concen: 4.353 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN055999.D
 Acq: 5 Jun 2019 10:46

Tgt Ion: 75 Resp: 22245
 Ion Ratio Lower Upper
 75 100
 110 9.0 19.0 57.0#
 77 0.0 25.1 37.7#



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

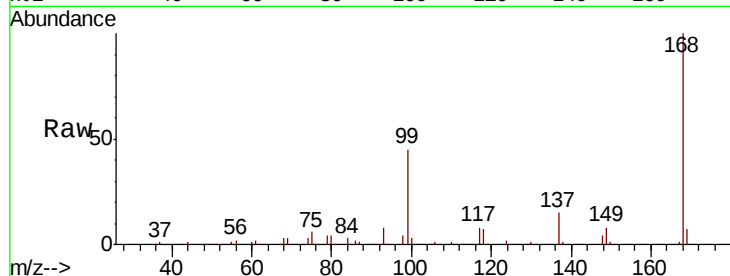




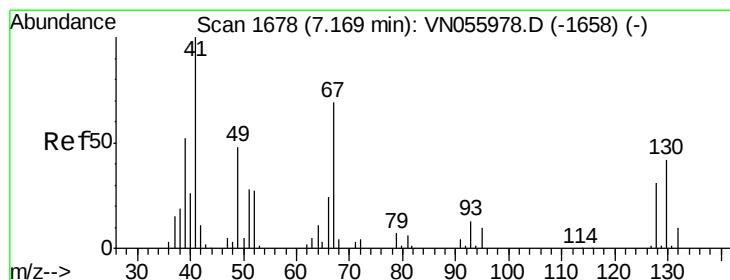
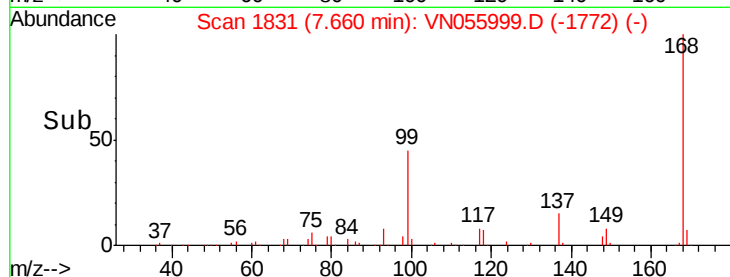
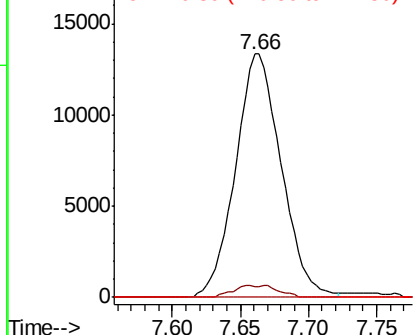
#38
Carbon Tetrachloride
Concen: 6.597 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN055999.D
Acq: 5 Jun 2019 10:46

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 31083
Ion Ratio Lower Upper
117 100
119 4.3 79.0 118.6#
121 0.0 24.7 37.1#

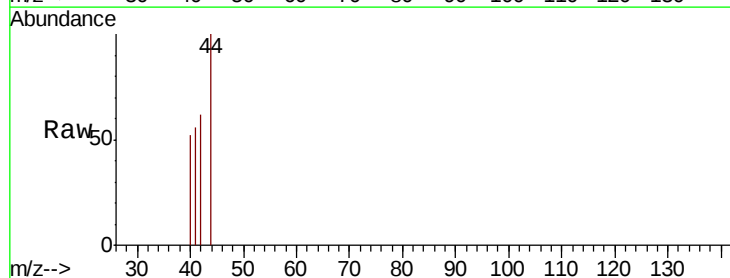


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

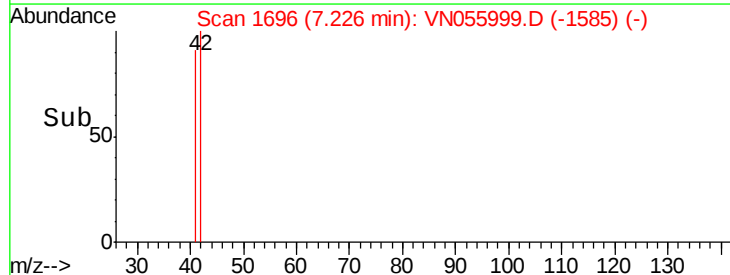
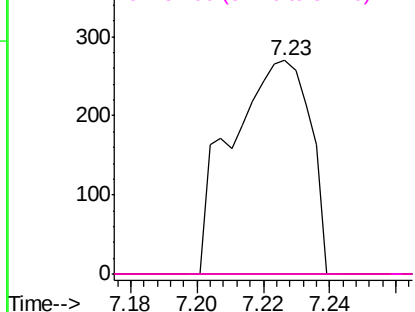


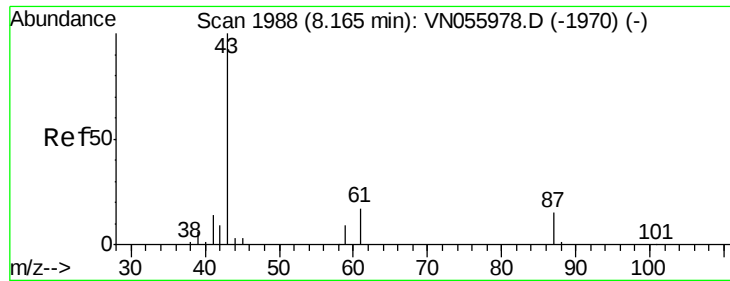
#41
Methacrylonitrile
Concen: 0.214 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.06 min
Lab File: VN055999.D
Acq: 5 Jun 2019 10:46

Tgt Ion: 41 Resp: 447
Ion Ratio Lower Upper
41 100
39 0.0 45.6 68.4#
67 0.0 67.7 101.5#
52 0.0 26.6 40.0#



Abundance Ion 41.00 (40.70 to 41.70): V
Ion 39.00 (38.70 to 39.70): V
Ion 67.00 (66.70 to 67.70): V
Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 2.122 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN055999.D

Acq: 5 Jun 2019 10:46

Instrument :

MSVOA_N

ClientSampleId :

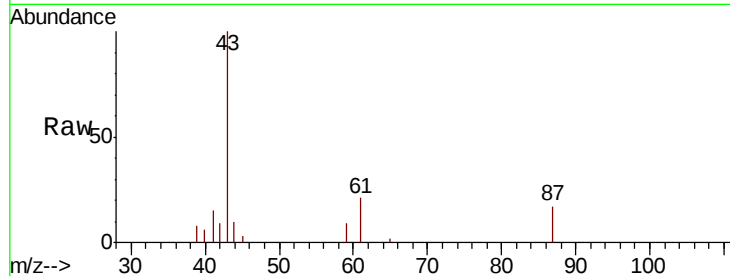
Tot Ion: 43 Resp: 15636

Ion Ratio Lower Upper

43 100

61 20.2 22.2 33.4#

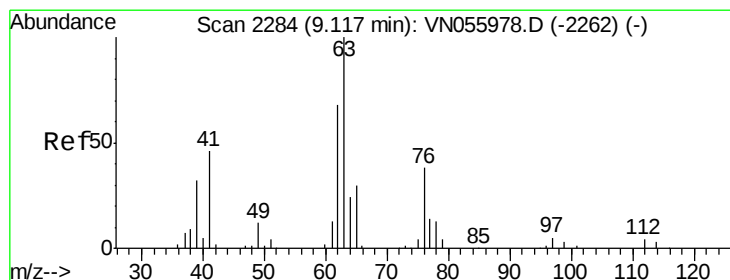
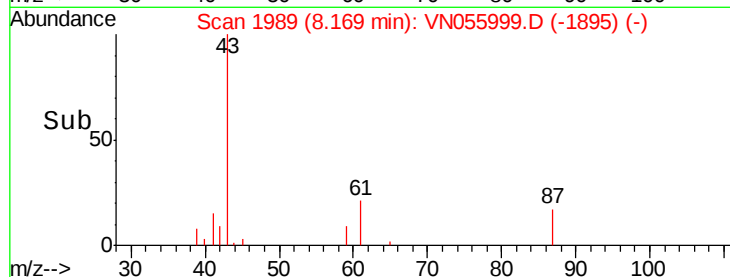
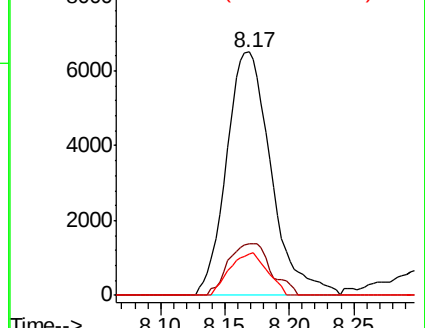
87 14.8 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-1970) (-)

Ion 61.00 (60.70 to 61.70): VN055978.D (-1970) (-)

Ion 87.00 (86.70 to 87.70): VN055978.D (-1970) (-)



#45

1,2-Dichloropropane

Concen: 0.469 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN055999.D

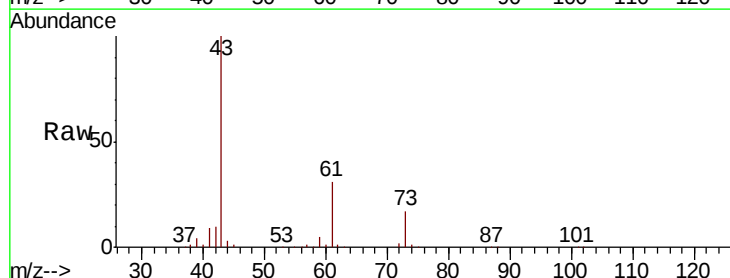
Acq: 5 Jun 2019 10:46

Tgt Ion: 63 Resp: 1866

Ion Ratio Lower Upper

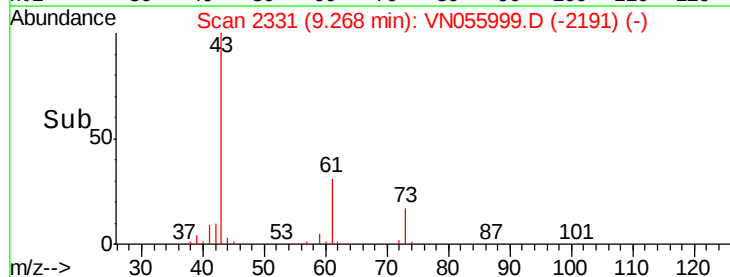
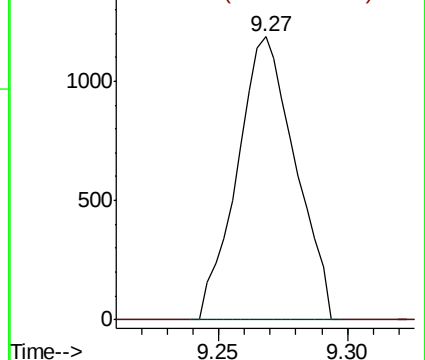
63 100

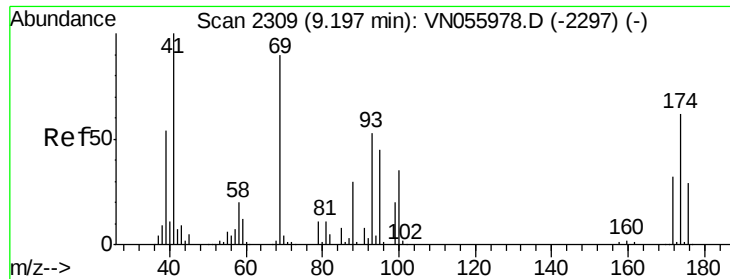
65 0.0 24.6 36.8#



Abundance Ion 62.90 (62.60 to 63.60): VN055978.D (-2262) (-)

Ion 64.90 (64.60 to 65.60): VN055978.D (-2262) (-)

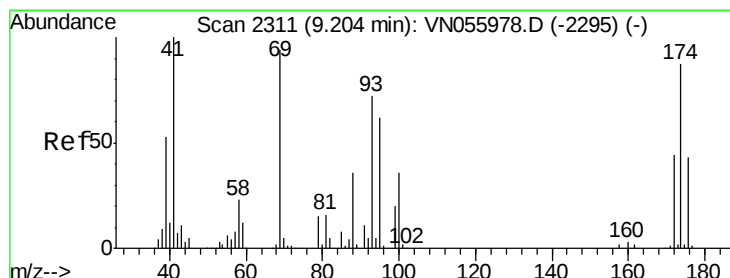
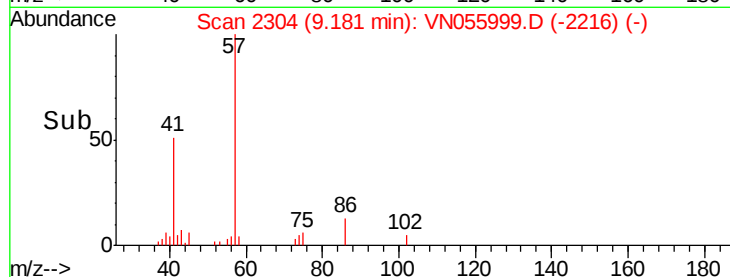
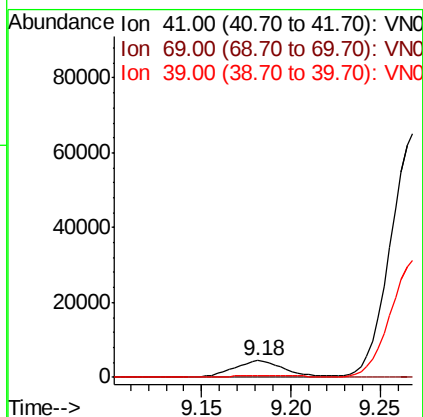
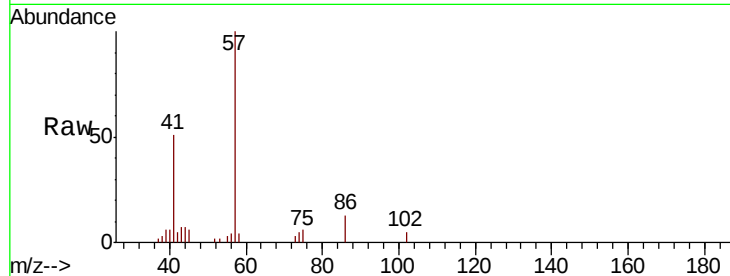




#48
Methyl methacrylate
Concen: 2.490 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN055999.D
Acq: 5 Jun 2019 10:46

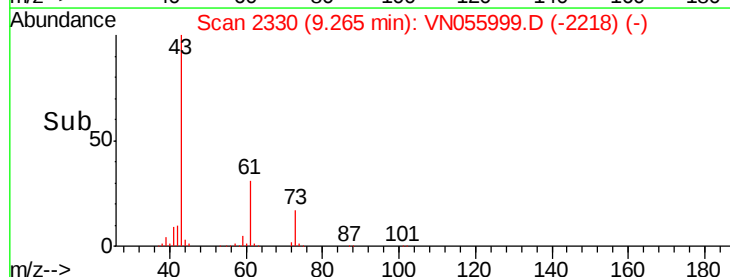
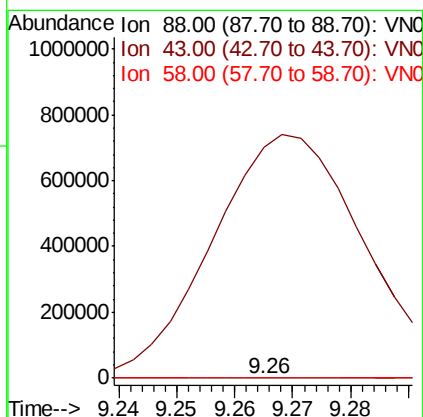
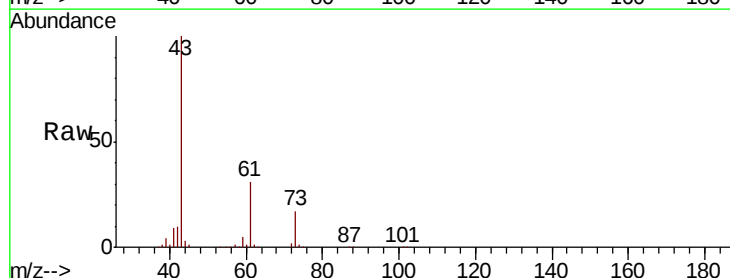
Instrument :
MSVOA_N
ClientSampled :

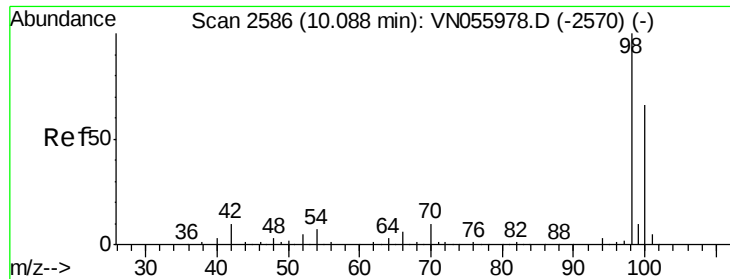
Tot Ion: 41 Resp: 8977
Ion Ratio Lower Upper
41 100
69 0.0 71.0 106.6#
39 0.0 44.2 66.2#



#49
1,4-Dioxane
Concen: 2.261 ug/l
RT: 9.26 min Scan# 2330
Delta R.T. 0.06 min
Lab File: VN055999.D
Acq: 5 Jun 2019 10:46

Tgt Ion: 88 Resp: 176
Ion Ratio Lower Upper
88 100
43 797913.1 20.5 30.7#
58 3483.0 55.8 83.6#





#50

Toluene-d8

Concen: 50.381 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055999.D

Acq: 5 Jun 2019 10:46

Instrument :

MSVOA_N

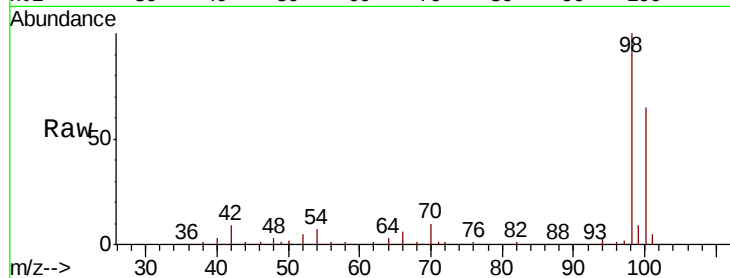
ClientSampled :

Tot Ion: 98 Resp: 706967

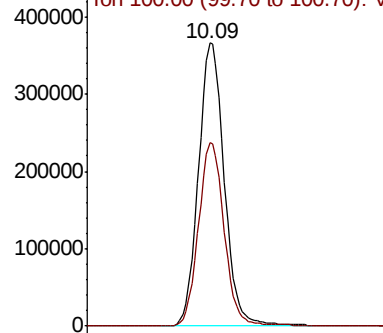
Ion Ratio Lower Upper

98 100

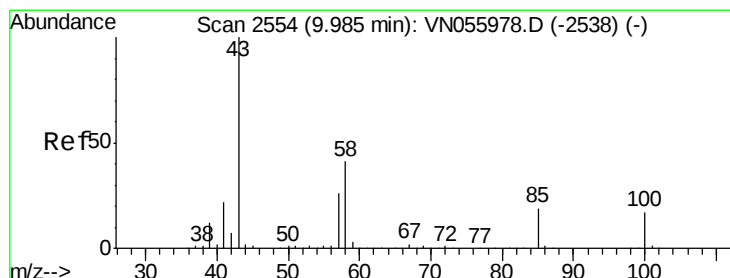
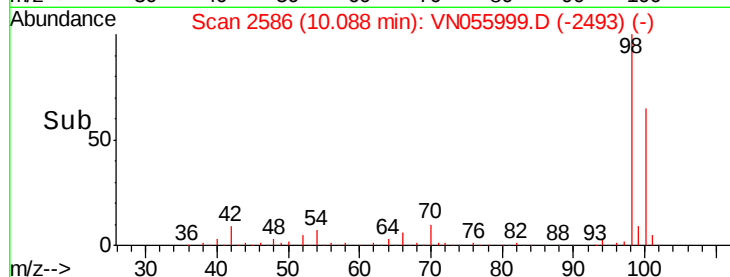
100 64.5 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055978.D (-2570) (-)



Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.992 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN055999.D

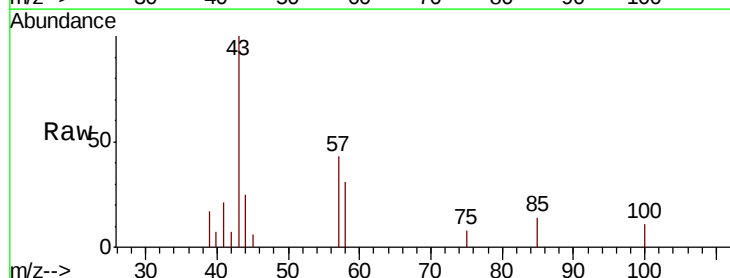
Acq: 5 Jun 2019 10:46

Tgt Ion: 43 Resp: 4573

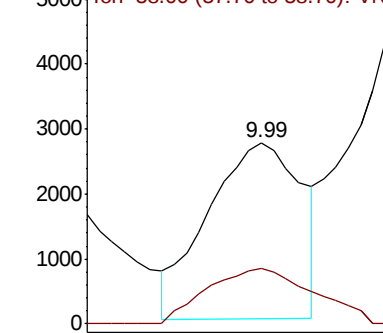
Ion Ratio Lower Upper

43 100

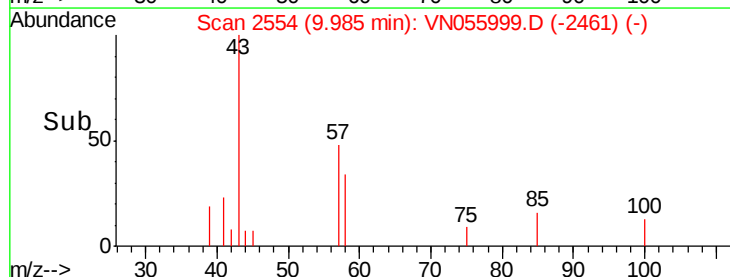
58 36.0 32.1 48.1

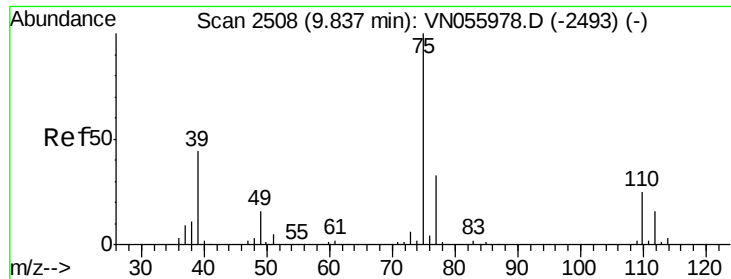


Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-2538) (-)



Time-->



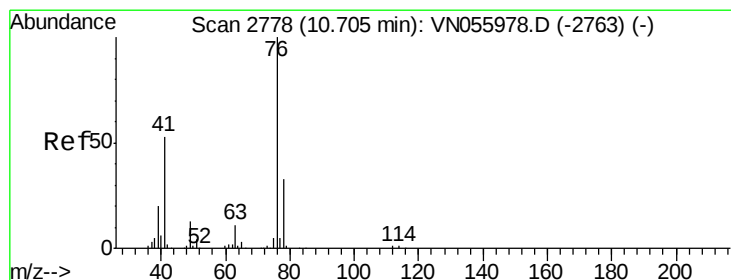
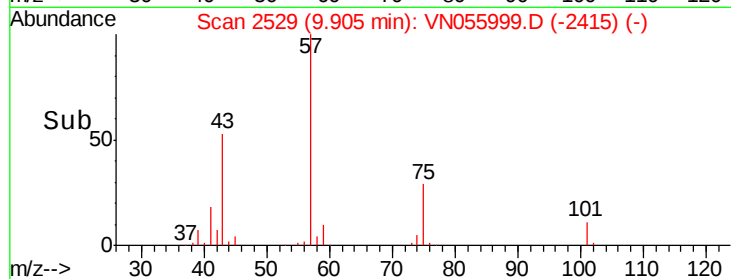
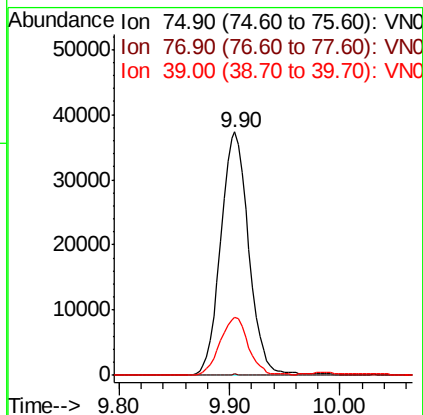
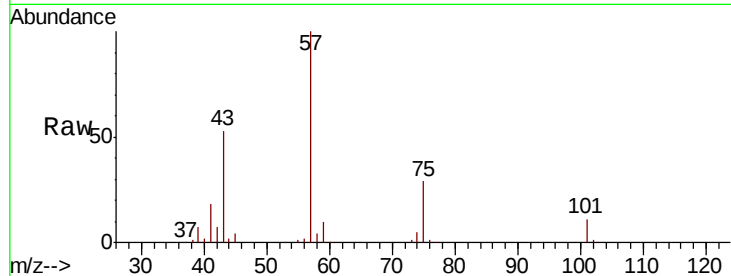


#54

cis-1,3-Dichloropropene
 Concen: 11.622 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN055999.D
 Acq: 5 Jun 2019 10:46

Instrument :
 MSVOA_N
 ClientSampled :

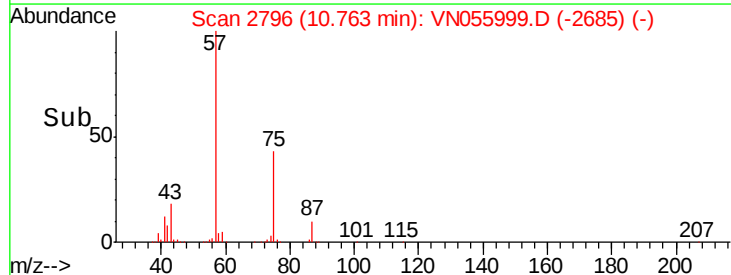
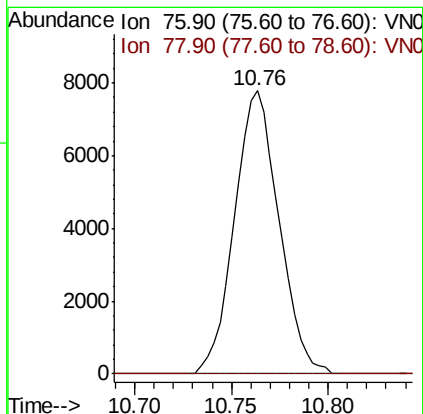
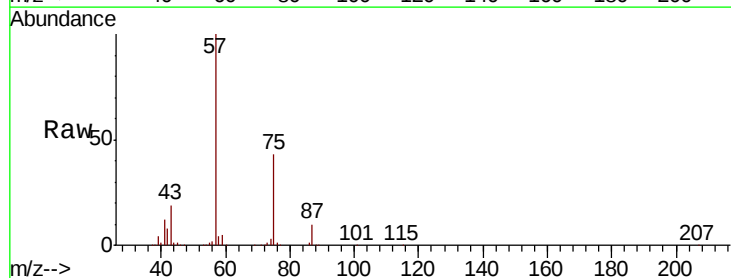
Tot Ion: 75 Resp: 65827
 Ion Ratio Lower Upper
 75 100
 77 0.4 25.4 38.0#
 39 23.9 36.3 54.5#

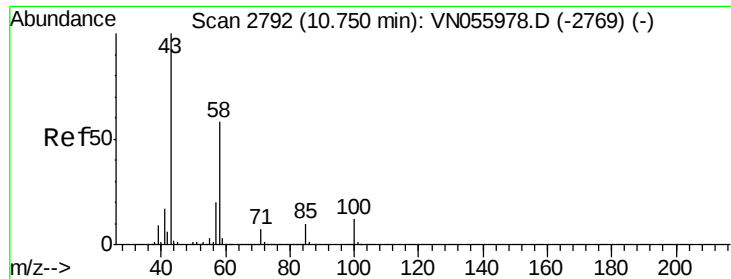


#57

1,3-Dichloropropane
 Concen: 2.000 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN055999.D
 Acq: 5 Jun 2019 10:46

Tgt Ion: 76 Resp: 12441
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.6#

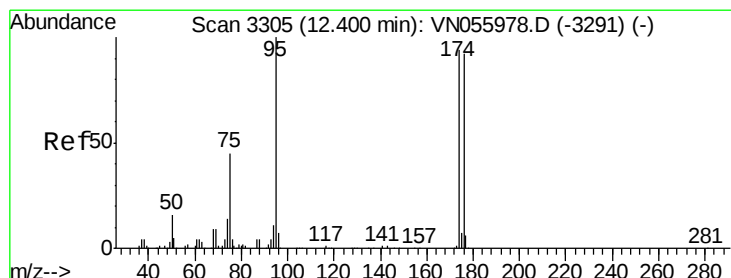
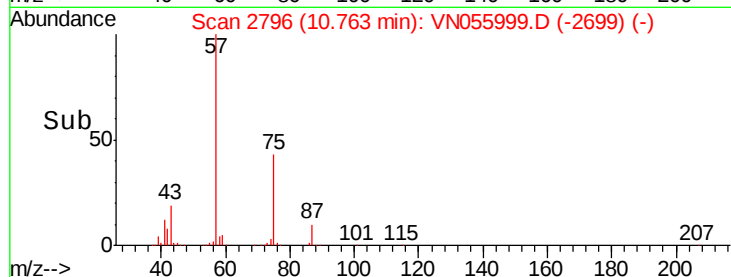
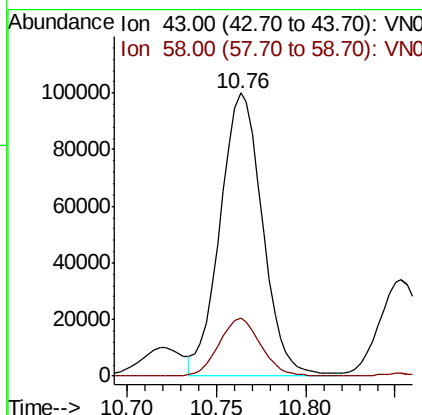
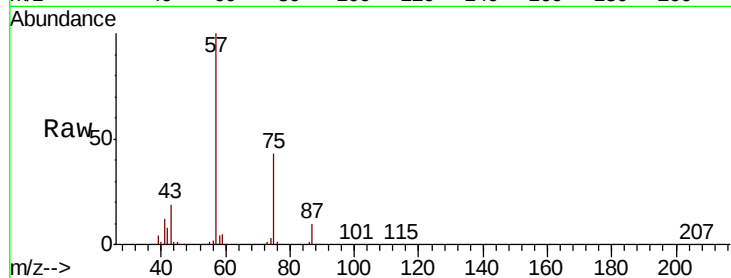




#59
2-Hexanone
Concen: 48.993 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN055999.D
Acq: 5 Jun 2019 10:46

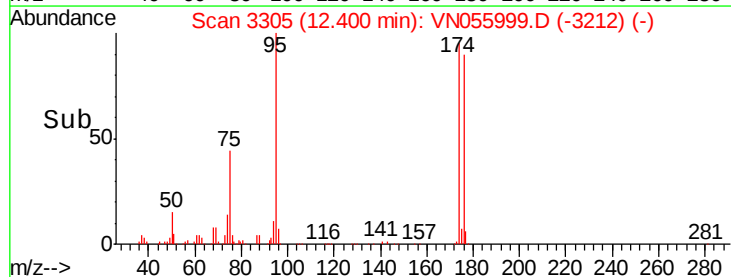
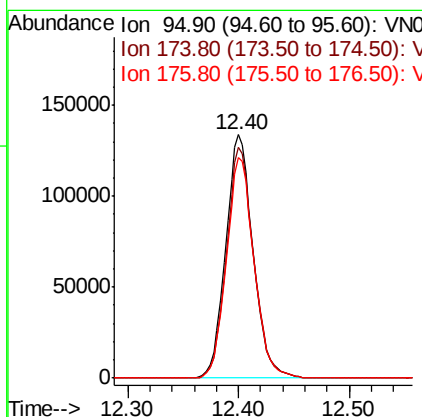
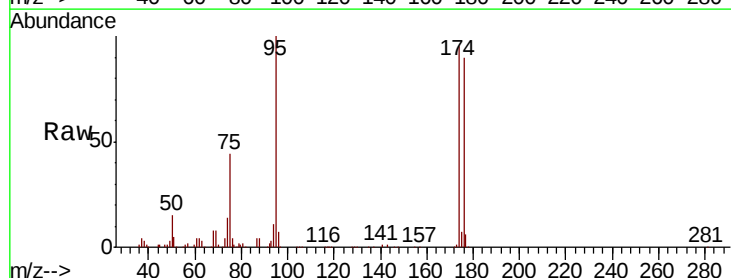
Instrument :
MSVOA_N
ClientSampled :

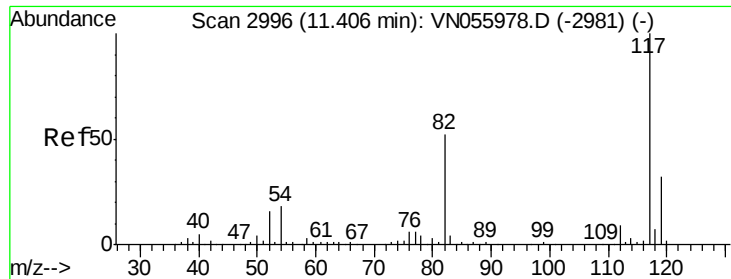
Tot Ion: 43 Resp: 163628
Ion Ratio Lower Upper
43 100
58 20.4 28.2 84.7#



#62
4-Bromofluorobenzene
Concen: 48.086 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN055999.D
Acq: 5 Jun 2019 10:46

Tgt Ion: 95 Resp: 229469
Ion Ratio Lower Upper
95 100
174 94.7 0.0 191.0
176 91.4 0.0 185.2

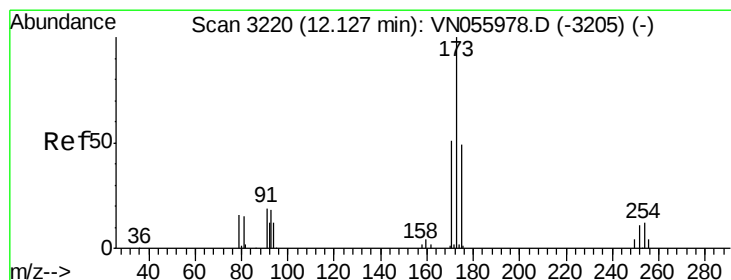
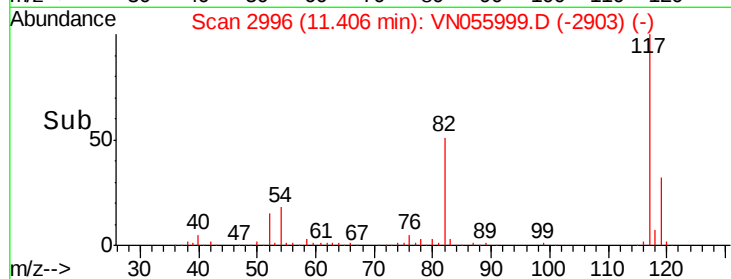
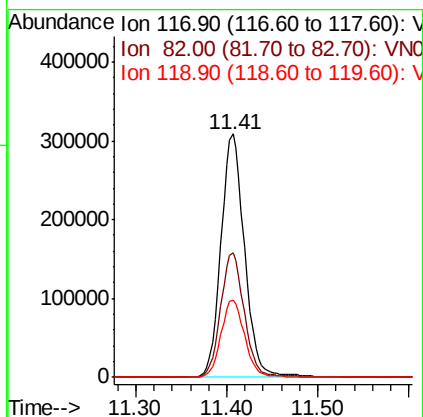
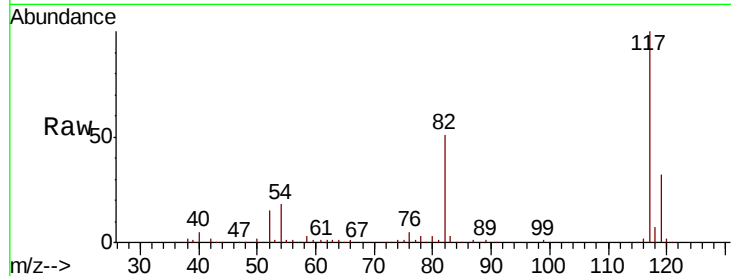




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055999.D
Acq: 5 Jun 2019 10:46

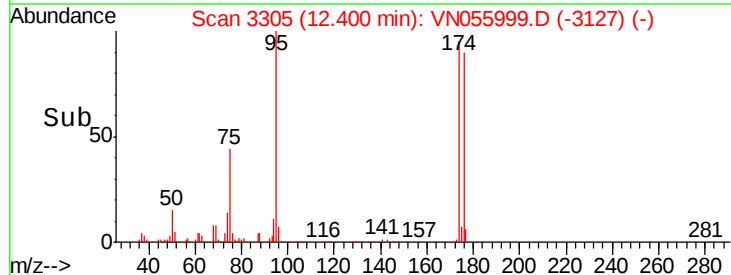
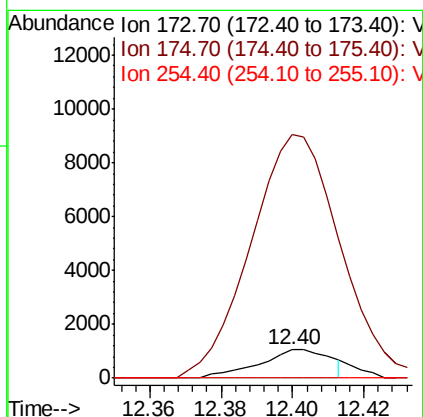
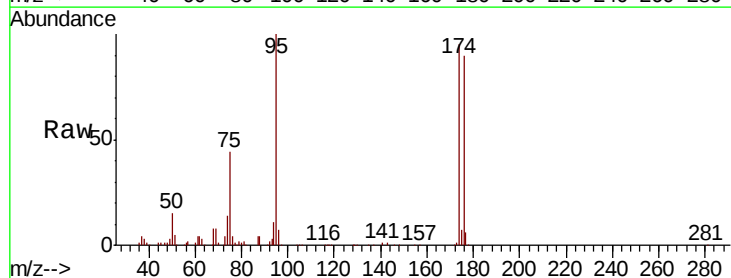
Instrument :
MSVOA_N
ClientSampled :

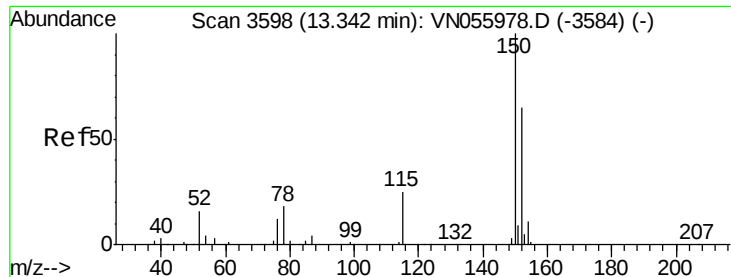
Tot Ion:117 Resp: 556063
Ion Ratio Lower Upper
117 100
82 50.9 41.8 62.8
119 31.7 25.4 38.0



#71
Bromoform
Concen: 3.173 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN055999.D
Acq: 5 Jun 2019 10:46

Tgt Ion:173 Resp: 1461
Ion Ratio Lower Upper
173 100
175 939.6 24.3 72.8#
254 0.0 0.0 0.0



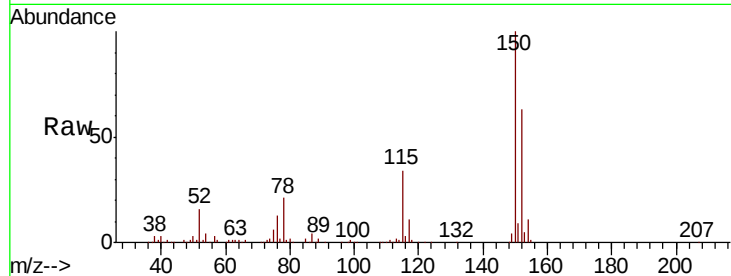


#72

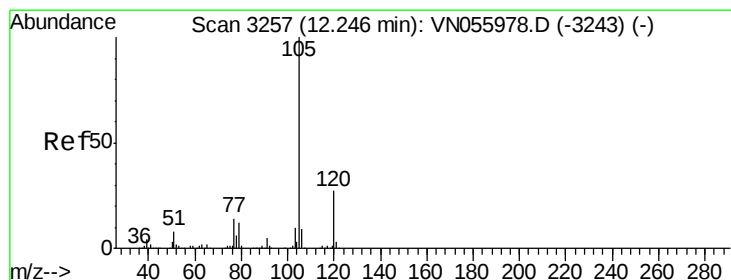
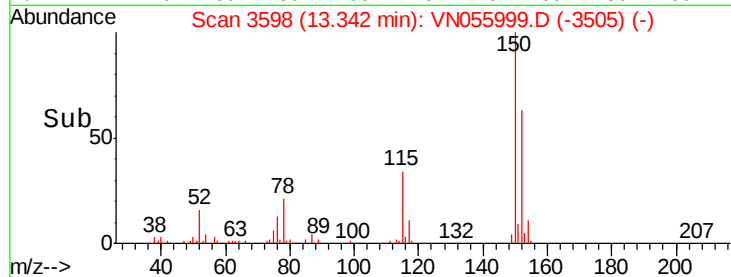
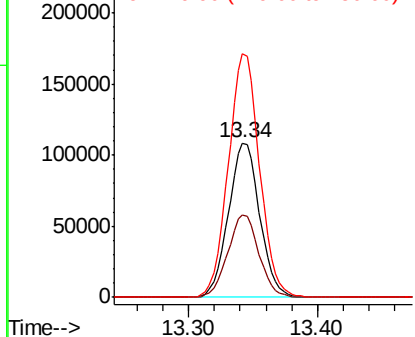
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN055999.D
Acq: 5 Jun 2019 10:46

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	53.4	27.0	81.0
150	157.6	0.0	343.2



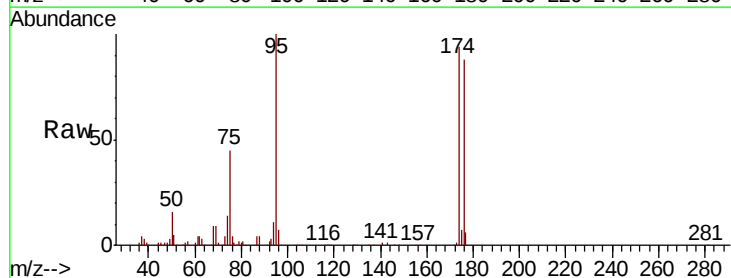
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



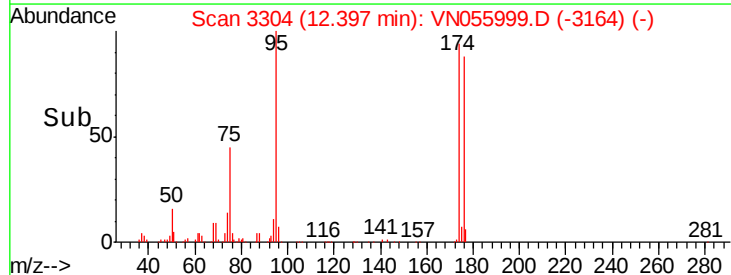
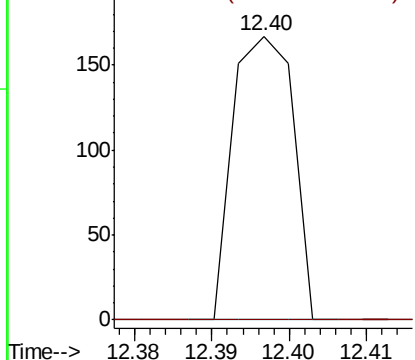
#73

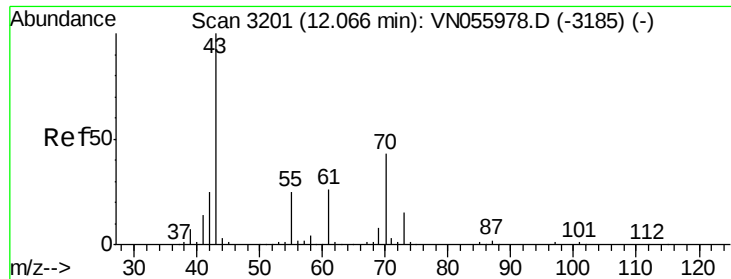
Isopropylbenzene
Concen: Below Cal
RT: 12.40 min Scan# 3304
Delta R.T. 0.15 min
Lab File: VN055999.D
Acq: 5 Jun 2019 10:46

Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	13.6	40.7#



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 3.042 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN055999.D

Acq: 5 Jun 2019 10:46

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 14760

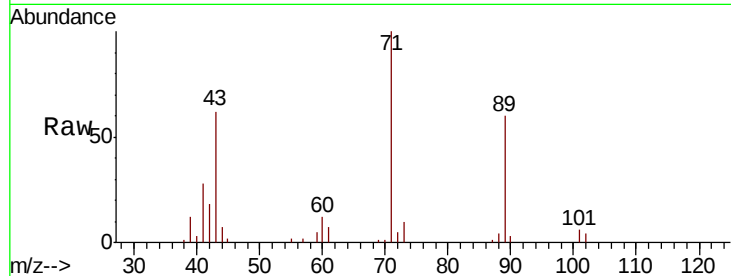
Ion Ratio Lower Upper

43 100

70 0.4 34.0 51.0#

55 3.9 18.6 28.0#

61 12.1 20.0 30.0#

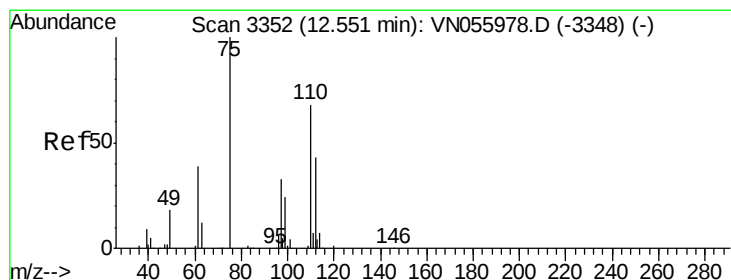
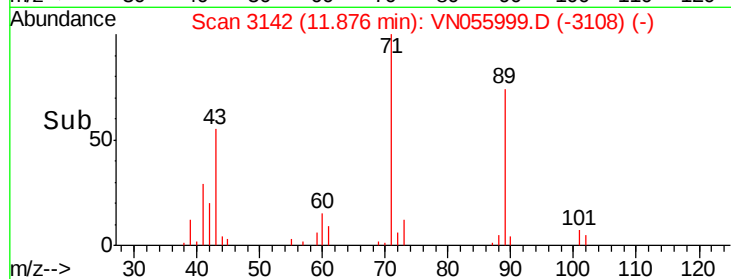
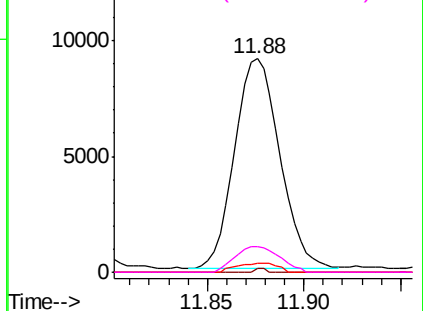


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 30.496 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055999.D

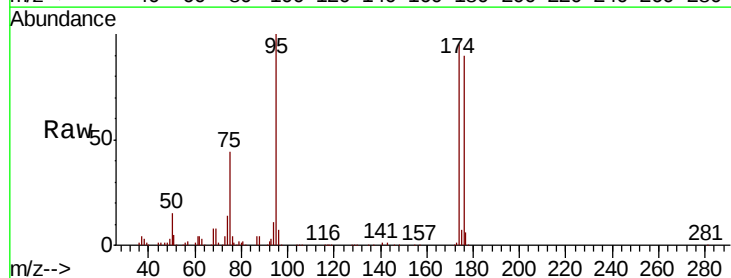
Acq: 5 Jun 2019 10:46

Tgt Ion: 75 Resp: 102138

Ion Ratio Lower Upper

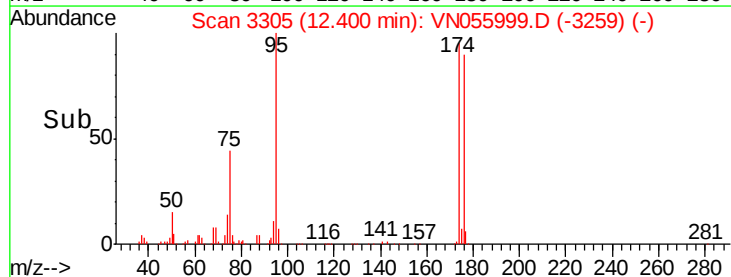
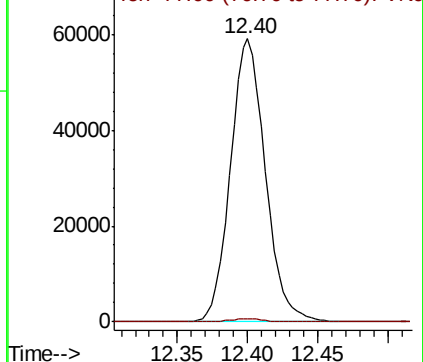
75 100

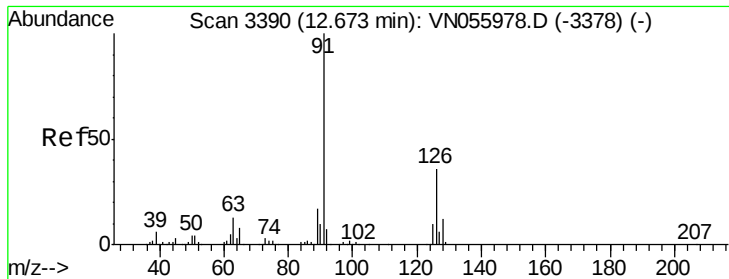
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.59 min Scan# 3365

Delta R.T. -0.08 min

Lab File: VN055999.D

Acq: 5 Jun 2019 10:46

Instrument :

MSVOA_N

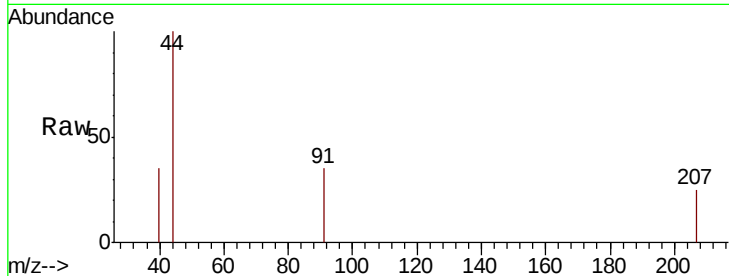
ClientSampled :

Tot Ion: 91 Resp: 220

Ion Ratio Lower Upper

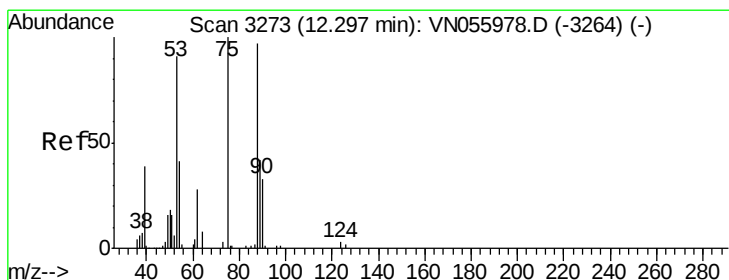
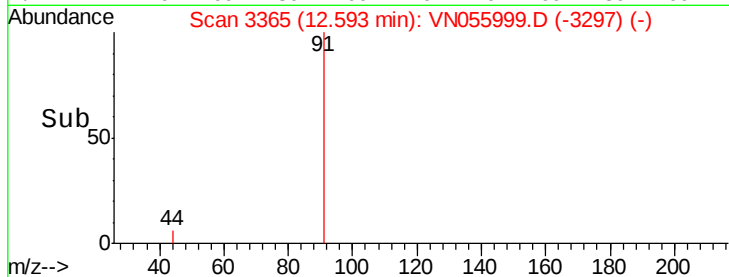
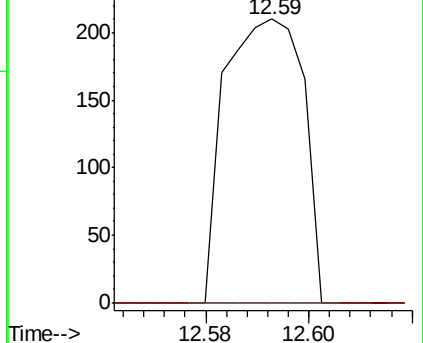
91 100

126 0.0 18.1 54.4#



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: 101.558 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055999.D

Acq: 5 Jun 2019 10:46

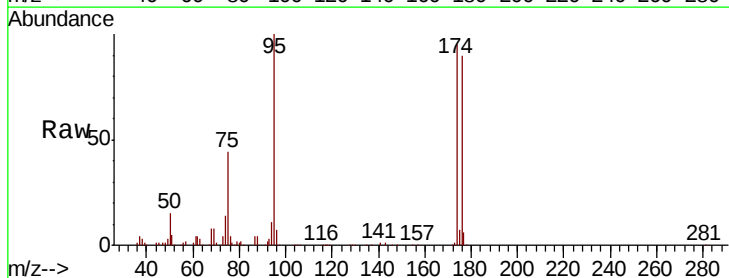
Tgt Ion: 75 Resp: 102138

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

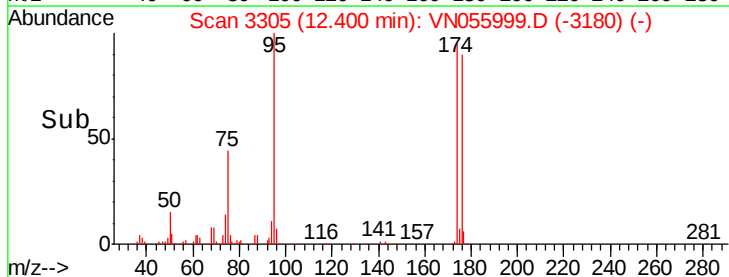
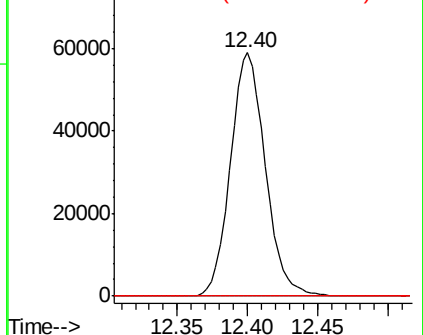
89 0.0 36.9 55.3#

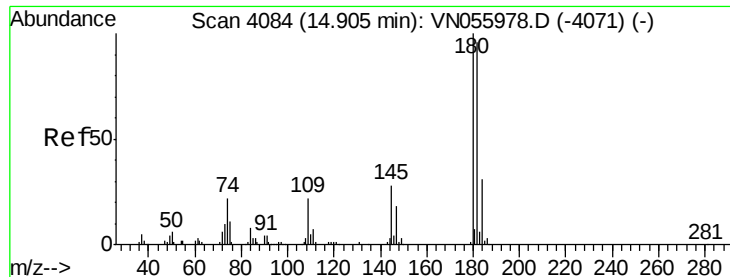


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

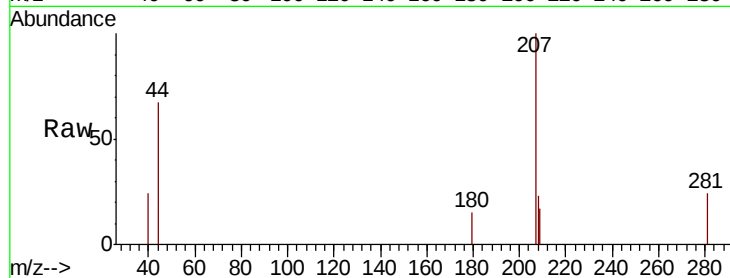




#93
 1,2,4-Trichlorobenzene
 Concen: 4.278 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055999.D
 Acq: 5 Jun 2019 10:46

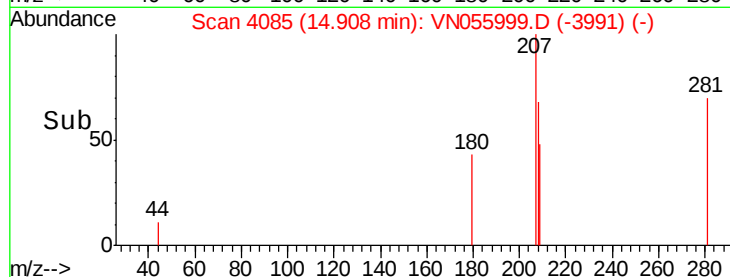
Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	48.3	144.9#
145	0.0	14.0	41.9#

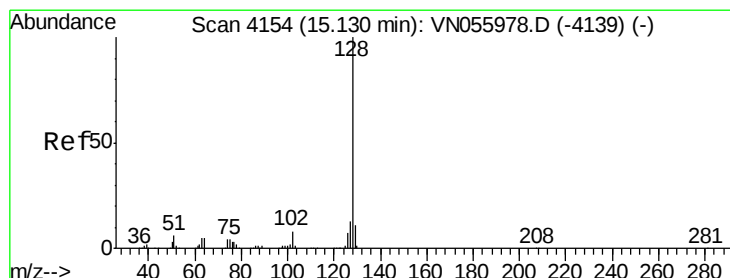


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

14.91

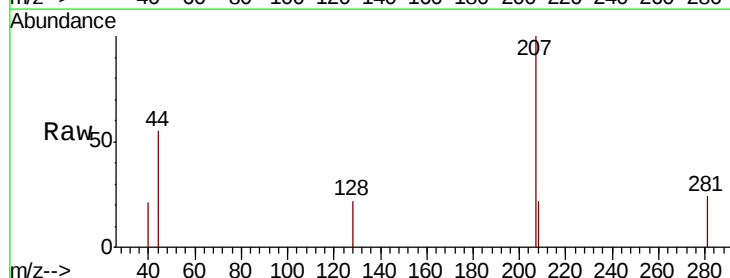


Time-->



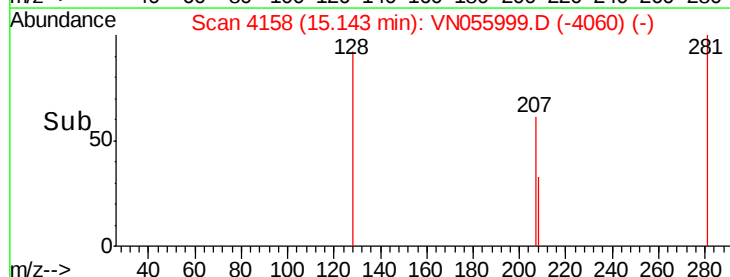
#95
 Naphthalene
 Concen: 3.882 ug/l
 RT: 15.14 min Scan# 4158
 Delta R.T. 0.01 min
 Lab File: VN055999.D
 Acq: 5 Jun 2019 10:46

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	0.0	8.7	13.1#

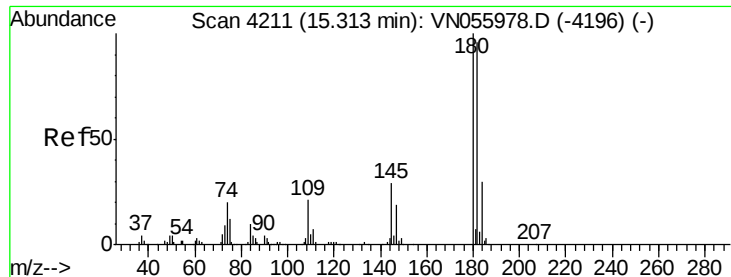


Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

15.14



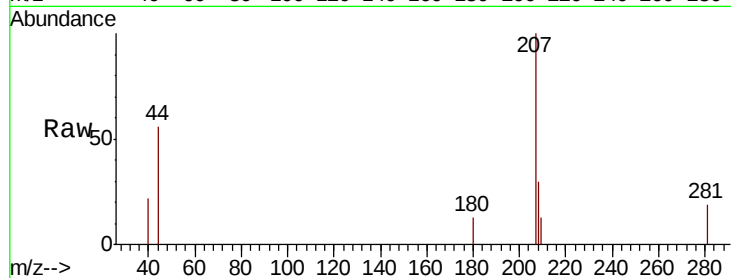
Time-->



#96
 1,2,3-Trichlorobenzene
 Concen: 3.039 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN055999.D
 Acq: 5 Jun 2019 10:46

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.9	143.7#
145	0.0	14.9	44.7#



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

