

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091419\
 Data File : VN058040.D
 Acq On : 14 Sep 2019 00:09
 Operator : JC/SP
 Sample : K4694-29
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T2-1-(0)

Quant Time: Sep 14 03:41:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	305472	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	528675	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	483327	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	245133	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	333139	53.84	ug/l	0.00
Spiked Amount			Recovery	=	107.68%	
35) Dibromofluoromethane	7.58	113	232633	47.68	ug/l	0.00
Spiked Amount			Recovery	=	95.36%	
50) Toluene-d8	10.09	98	876701	46.28	ug/l	0.00
Spiked Amount			Recovery	=	92.56%	
62) 4-Bromofluorobenzene	12.40	95	307477	42.59	ug/l	0.00
Spiked Amount			Recovery	=	85.18%	

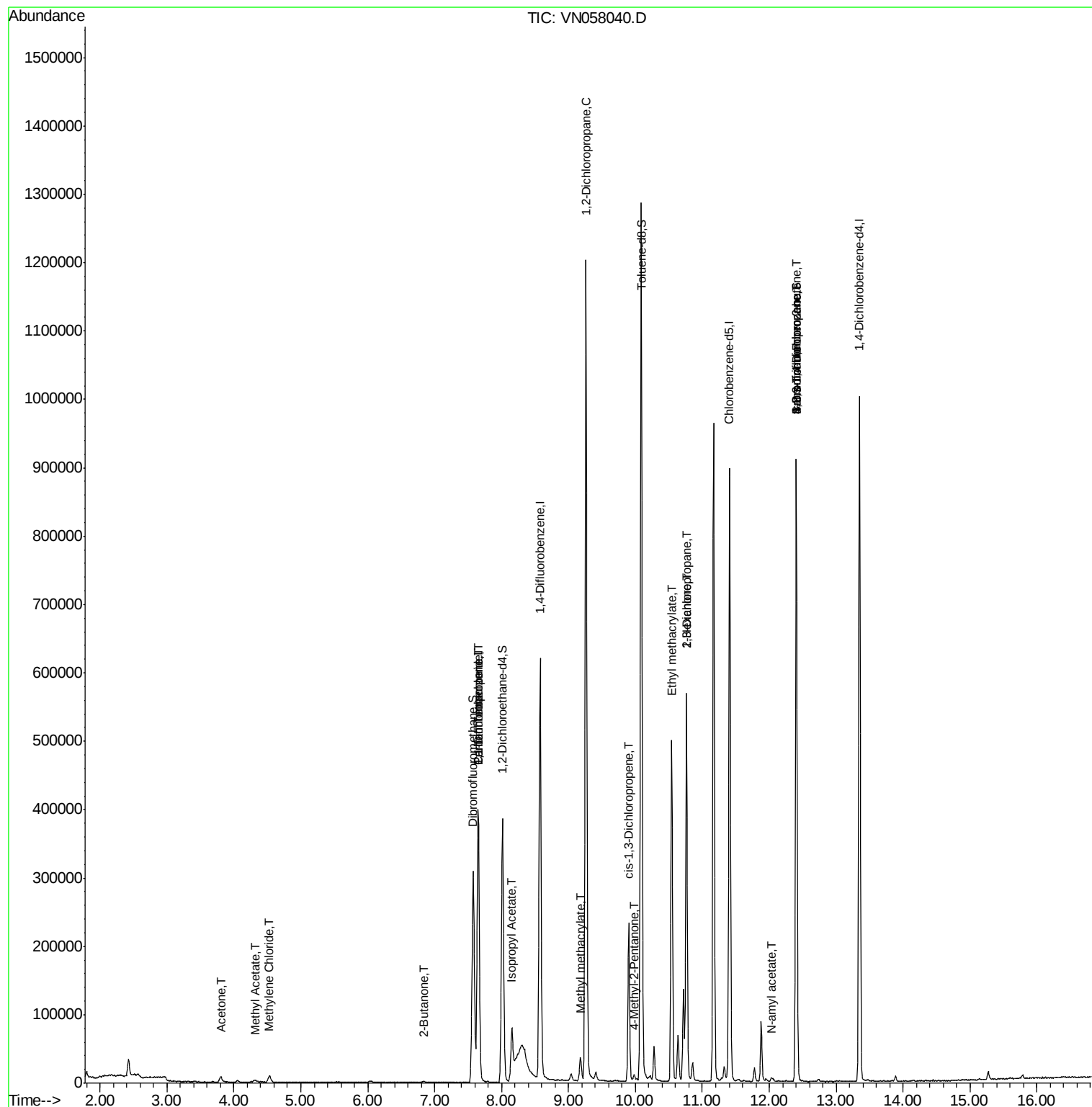
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	460	Below Cal	#	59
16) Acetone	3.81	43	12332	6.080	ug/l	98
18) Methyl Acetate	4.32	43	4518	0.835	ug/l #	90
20) Methylene Chloride	4.53	84	6129	0.365	ug/l #	89
25) 2-Butanone	6.83	43	2176	0.741	ug/l	95
31) Cyclohexane	7.65	56	8631	Below Cal	#	35
36) 1,1-Dichloropropene	7.65	75	27016	4.406	ug/l #	51
38) Carbon Tetrachloride	7.65	117	30699	5.484	ug/l #	16
43) Isopropyl Acetate	8.15	43	101484	9.526	ug/l #	85
45) 1,2-Dichloropropane	9.26	63	1468	0.273	ug/l #	44
48) Methyl methacrylate	9.17	41	4777	0.884	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	7413	1.176	ug/l	92
54) cis-1,3-Dichloropropene	9.90	75	39825	5.285	ug/l #	69
56) Ethyl methacrylate	10.54	69	1800	0.243	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	5340	0.629	ug/l #	43
59) 2-Hexanone	10.76	43	88268	18.681	ug/l #	53
71) Bromoform	12.40	173	640	0.234	ug/l #	30
74) N-amyl acetate	12.03	43	2235	0.270	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	166249	29.980	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	166249	105.500	ug/l #	6
95) Naphthalene	15.13	128	328	Below Cal	#	83

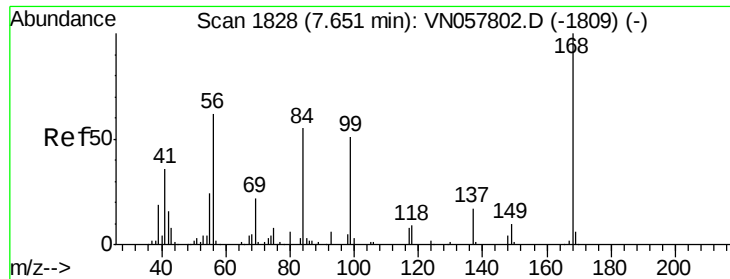
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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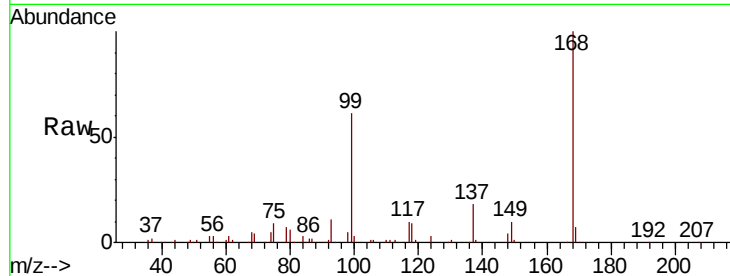




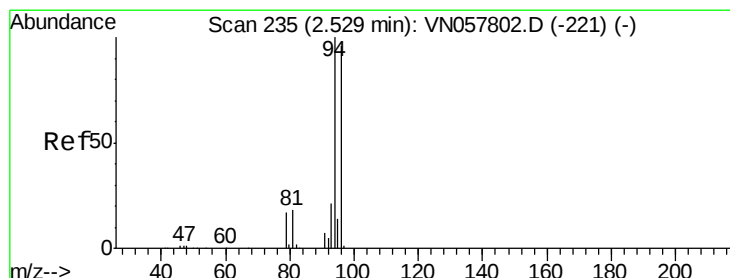
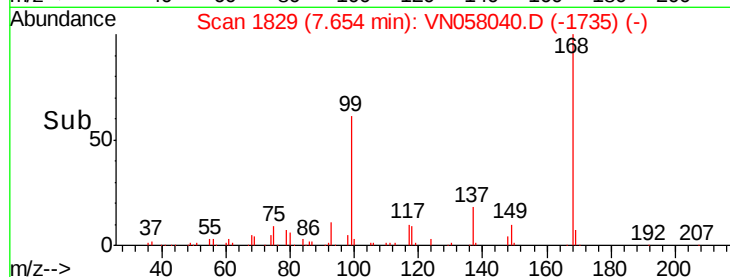
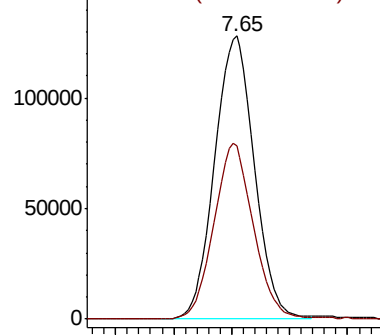
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.00 min
Lab File: VN058040.D
Acq: 14 Sep 2019 00:09

Instrument :
MSVOA_N
ClientSampled :
T2-1-(0)

Tgt Ion: 168 Resp: 305472
Ion Ratio Lower Upper
168 100
99 61.3 48.0 72.0

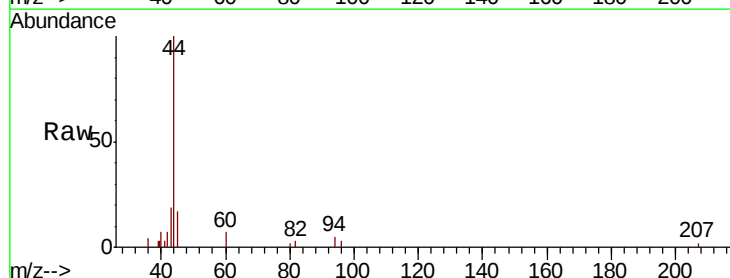


Abundance Ion 167.90 (167.60 to 168.60): VN057802.D (-1809) (-)
Ion 98.90 (98.60 to 99.60): VN057802.D (-1809) (-)

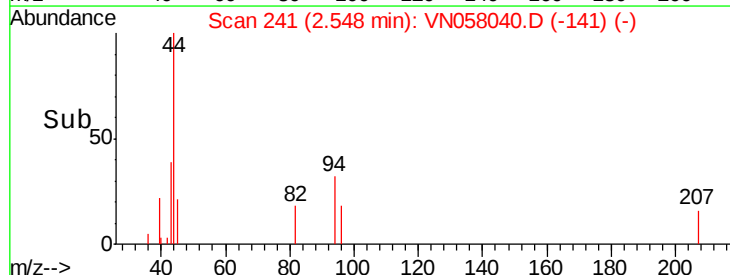
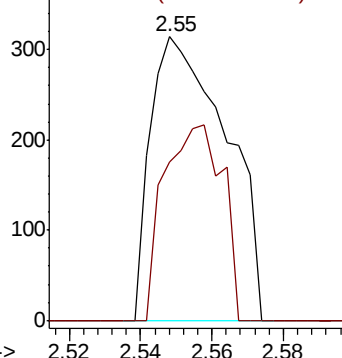


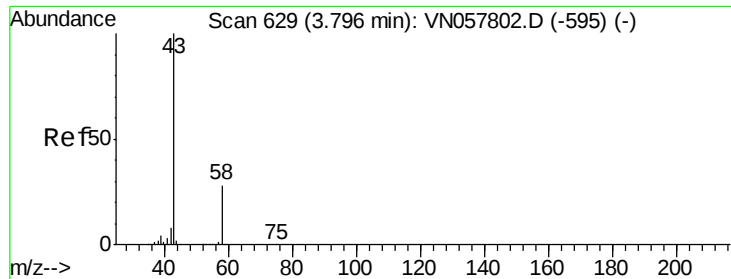
#5
Bromomethane
Concen: Below Cal
RT: 2.55 min Scan# 241
Delta R.T. 0.02 min
Lab File: VN058040.D
Acq: 14 Sep 2019 00:09

Tgt Ion: 94 Resp: 460
Ion Ratio Lower Upper
94 100
96 56.1 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN057802.D (-221) (-)
Ion 95.90 (95.60 to 96.60): VN057802.D (-221) (-)





#16

Acetone

Concen: 6.080 ug/l

RT: 3.81 min Scan# 633

Delta R.T. 0.01 min

Lab File: VN058040.D

Acq: 14 Sep 2019 00:09

Instrument :

MSVOA_N

ClientSampled :

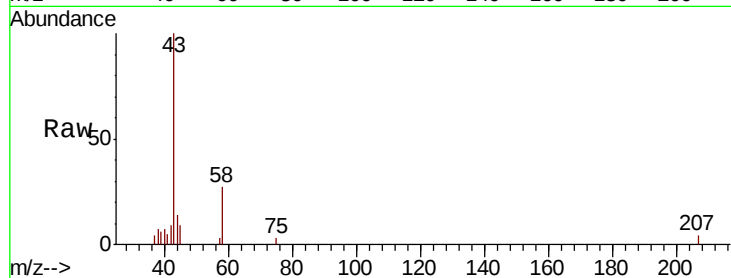
T2-1-(0)

Tgt Ion: 43 Resp: 12332

Ion Ratio Lower Upper

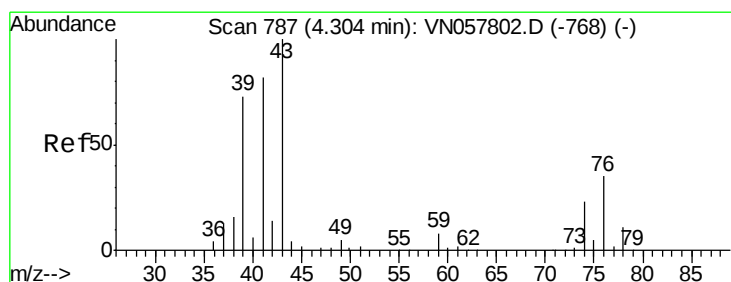
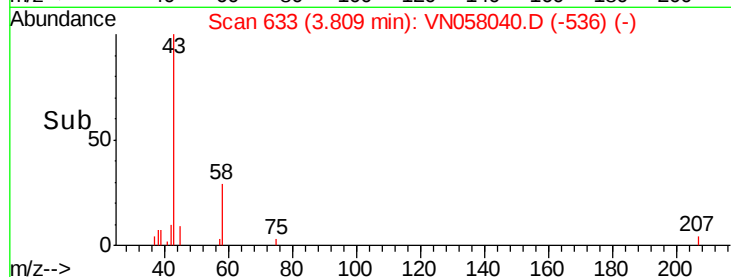
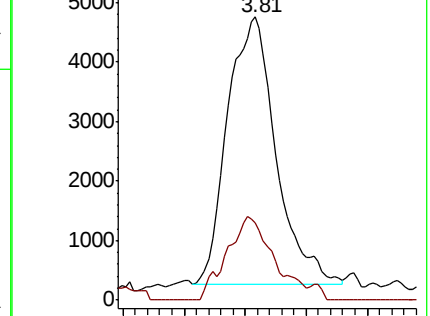
43 100

58 28.8 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.835 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.01 min

Lab File: VN058040.D

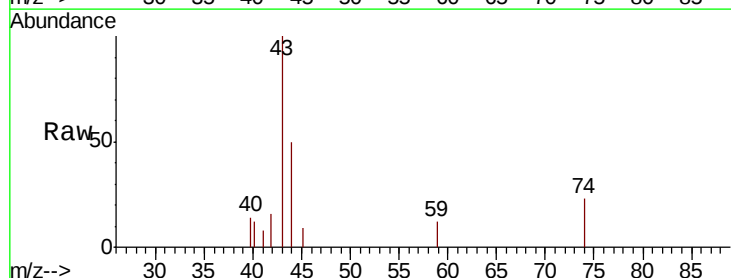
Acq: 14 Sep 2019 00:09

Tgt Ion: 43 Resp: 4518

Ion Ratio Lower Upper

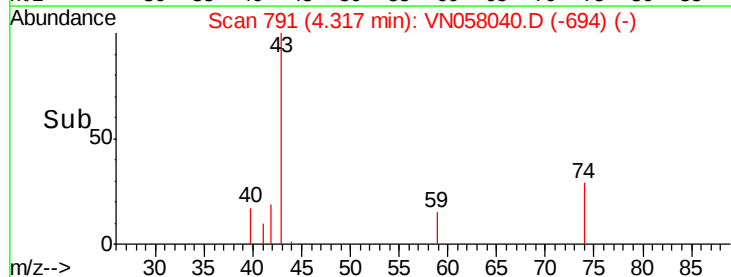
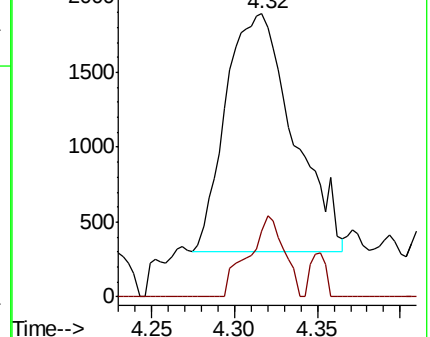
43 100

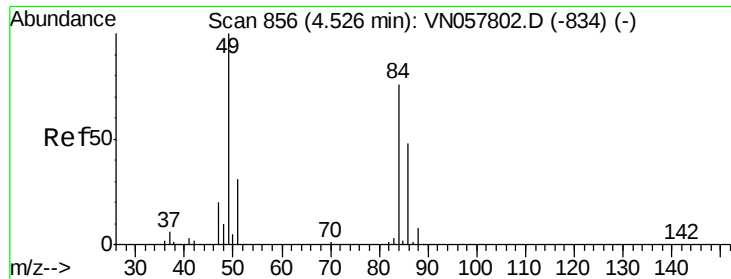
74 17.8 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

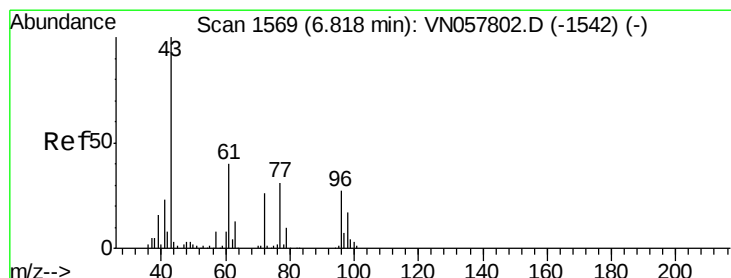
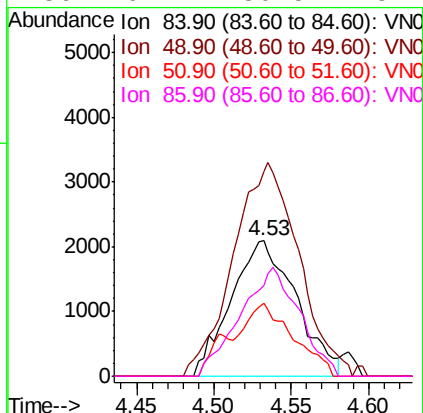
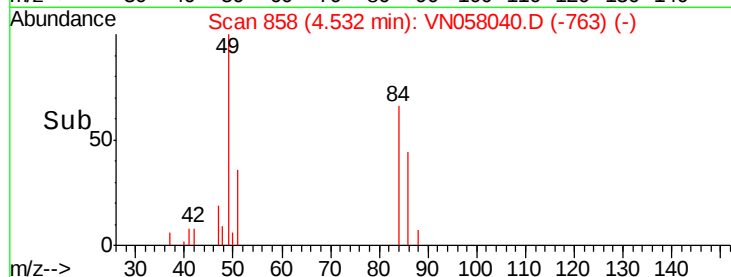
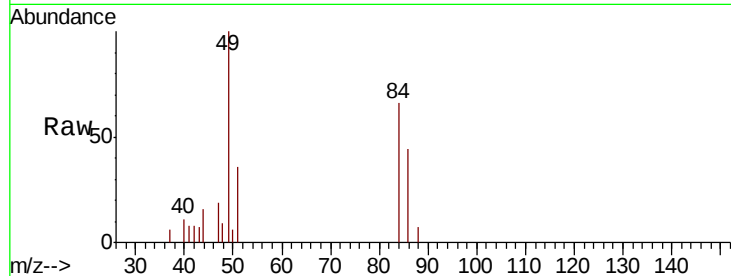




#20
Methylene Chloride
Concen: 0.365 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN058040.D
Acq: 14 Sep 2019 00:09

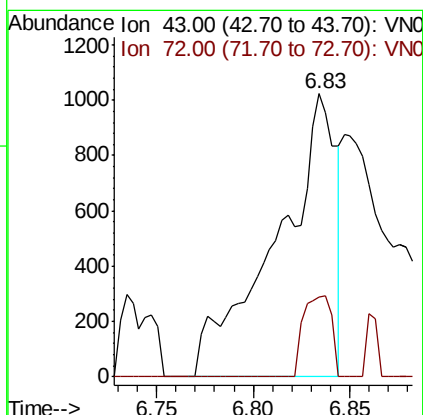
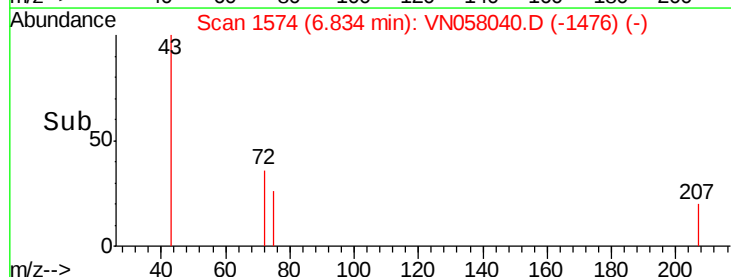
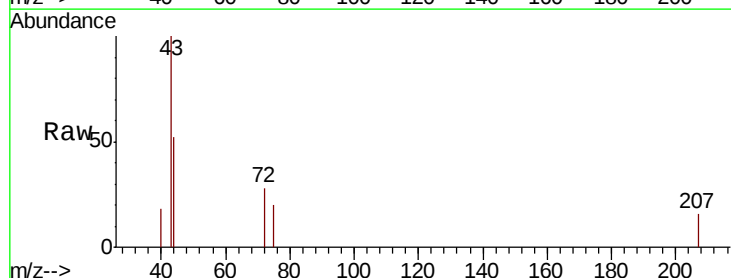
Instrument :
MSVOA_N
ClientSampled :
T2-1-(0)

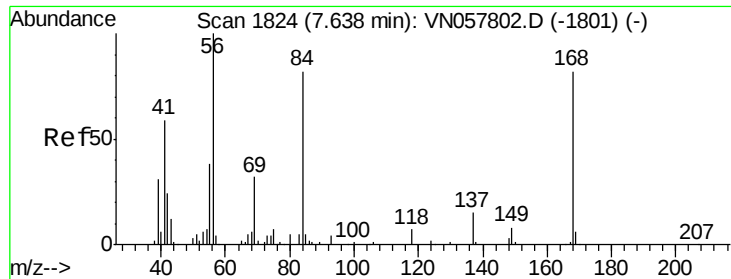
Tgt Ion: 84 Resp: 6129
Ion Ratio Lower Upper
84 100
49 142.7 104.8 157.2
51 53.9 33.0 49.4#
86 67.2 50.5 75.7



#25
2-Butanone
Concen: 0.741 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.02 min
Lab File: VN058040.D
Acq: 14 Sep 2019 00:09

Tgt Ion: 43 Resp: 2176
Ion Ratio Lower Upper
43 100
72 28.3 20.6 30.8

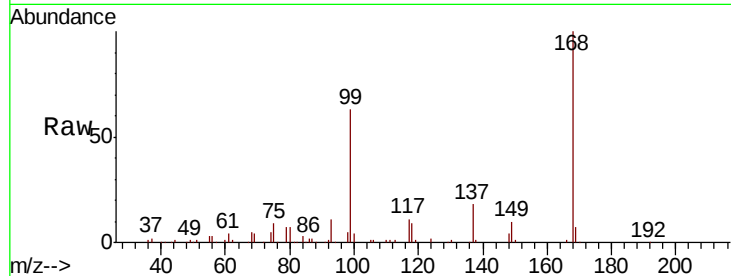




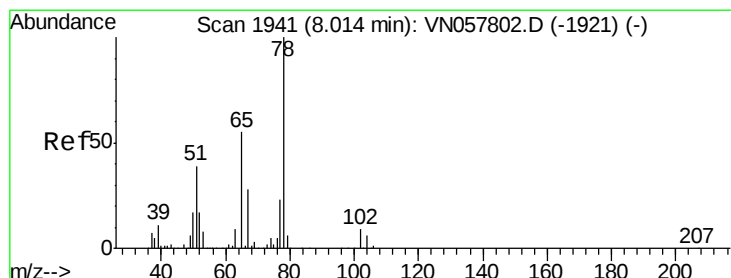
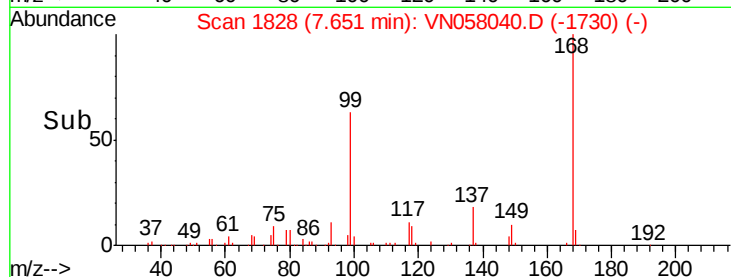
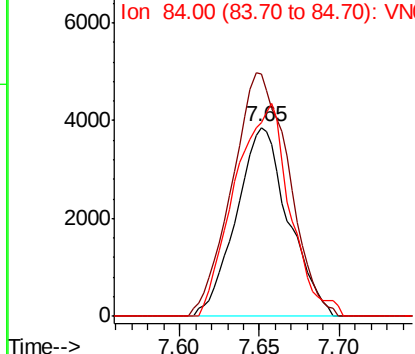
#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1828
Delta R.T. 0.01 min
Lab File: VN058040.D
Acq: 14 Sep 2019 00:09

Instrument :
MSVOA_N
ClientSampled :
T2-1-(0)

Tgt Ion: 56 Resp: 8631
Ion Ratio Lower Upper
56 100
69 128.4 25.9 38.9#
84 102.6 65.6 98.4#

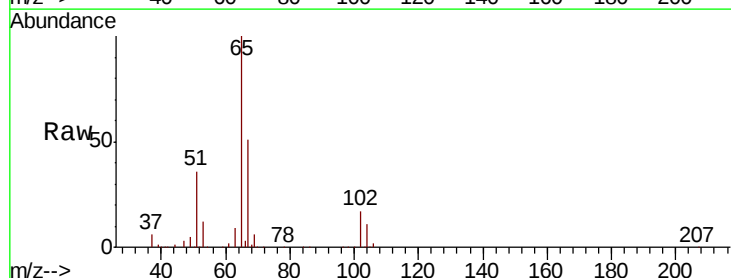


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

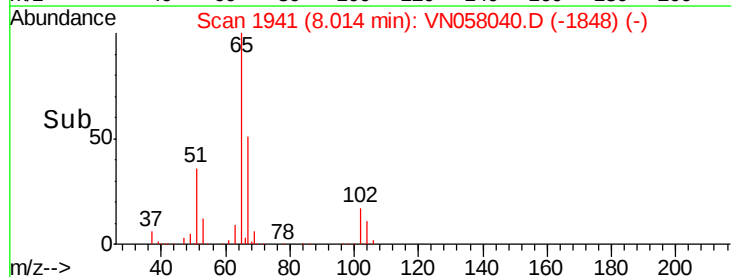
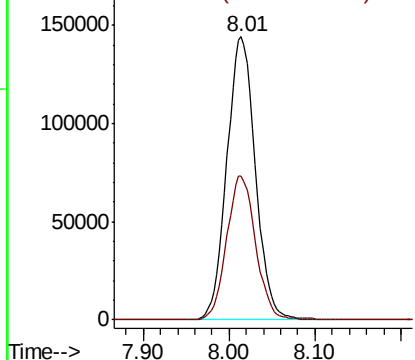


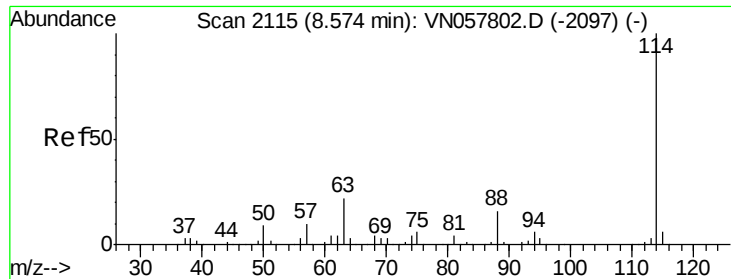
#33
1,2-Dichloroethane-d4
Concen: 53.844 ug/l
RT: 8.01 min Scan# 1941
Delta R.T. 0.00 min
Lab File: VN058040.D
Acq: 14 Sep 2019 00:09

Tgt Ion: 65 Resp: 333139
Ion Ratio Lower Upper
65 100
67 51.6 0.0 104.0



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

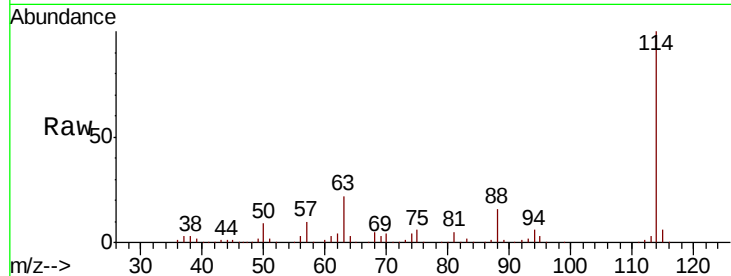




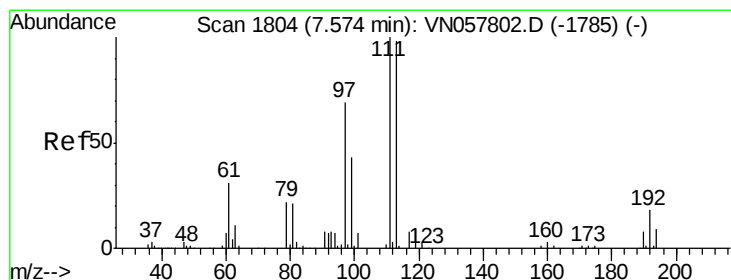
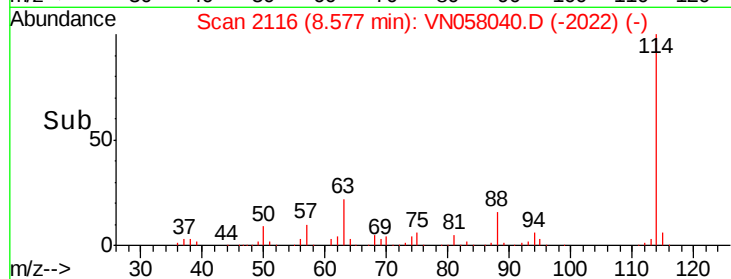
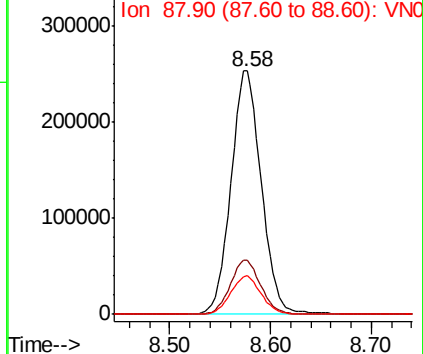
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN058040.D
 Acq: 14 Sep 2019 00:09

Instrument :
 MSVOA_N
 ClientSampleId :
 T2-1-(0)

Tgt Ion:114 Resp: 528675
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 44.0
 88 15.9 0.0 31.4

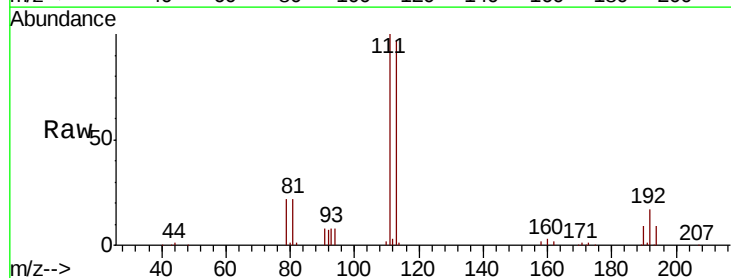


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

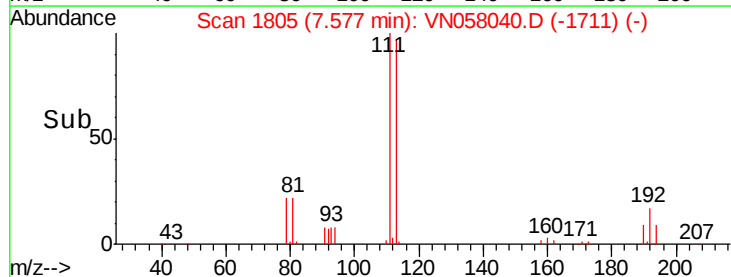
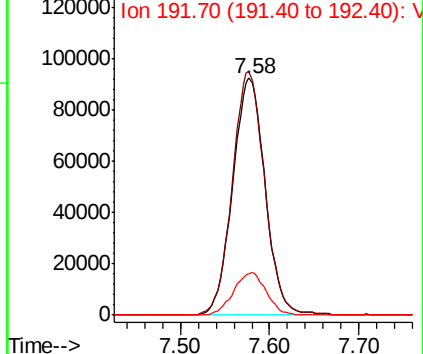


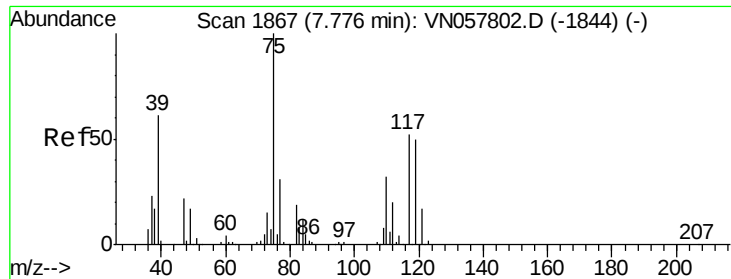
#35
 Dibromofluoromethane
 Concen: 47.676 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058040.D
 Acq: 14 Sep 2019 00:09

Tgt Ion:113 Resp: 232633
 Ion Ratio Lower Upper
 113 100
 111 102.0 81.3 121.9
 192 18.0 14.6 22.0



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

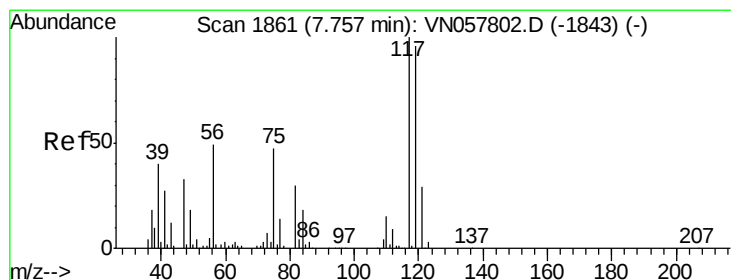
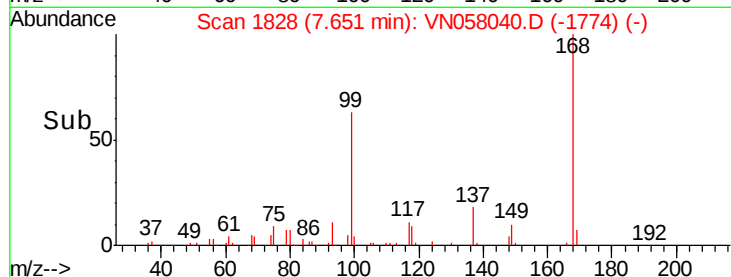
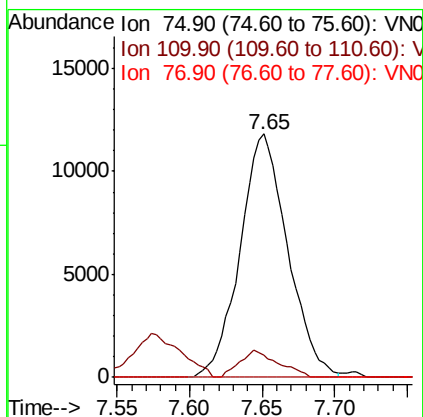
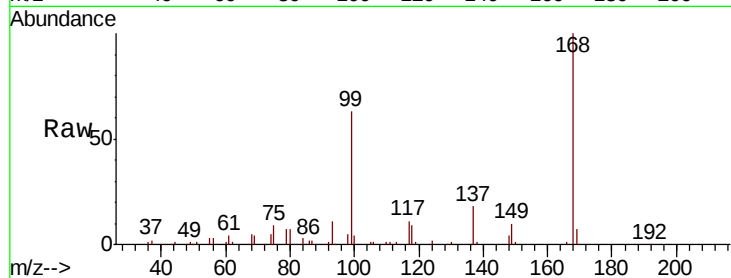




#36
 1,1-Dichloropropene
 Concen: 4.406 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058040.D
 Acq: 14 Sep 2019 00:09

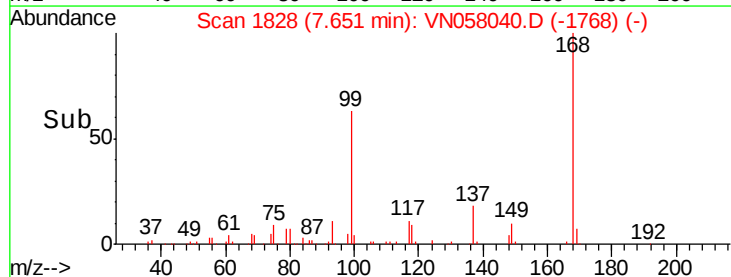
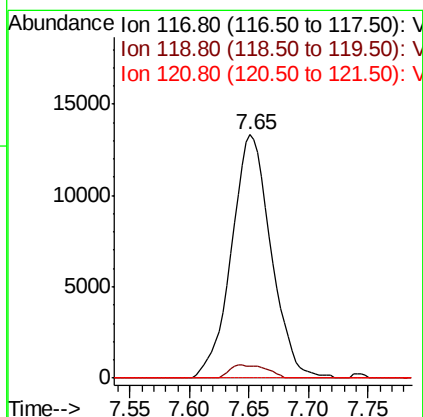
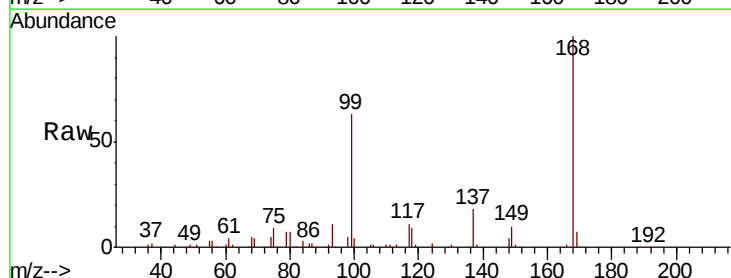
Instrument :
 MSVOA_N
 ClientSampled :
 T2-1-(0)

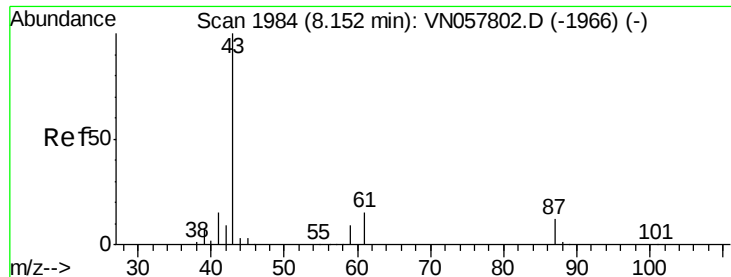
Tgt Ion: 75 Resp: 27016
 Ion Ratio Lower Upper
 75 100
 110 9.0 16.3 48.9#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 5.484 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN058040.D
 Acq: 14 Sep 2019 00:09

Tgt Ion: 117 Resp: 30699
 Ion Ratio Lower Upper
 117 100
 119 4.9 76.9 115.3#
 121 0.0 23.4 35.2#





#43

Isopropyl Acetate

Concen: 9.526 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN058040.D

Acq: 14 Sep 2019 00:09

Instrument :

MSVOA_N

ClientSampled :

T2-1-(0)

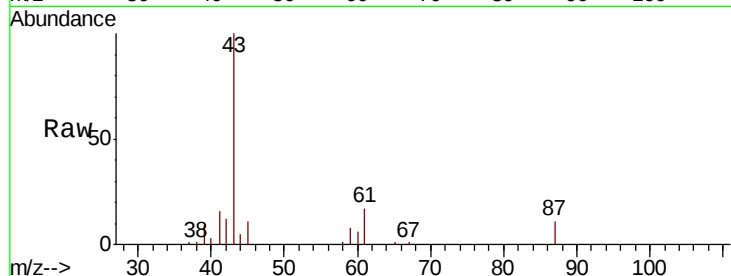
Tgt Ion: 43 Resp: 101484

Ion Ratio Lower Upper

43 100

61 15.3 20.1 30.1#

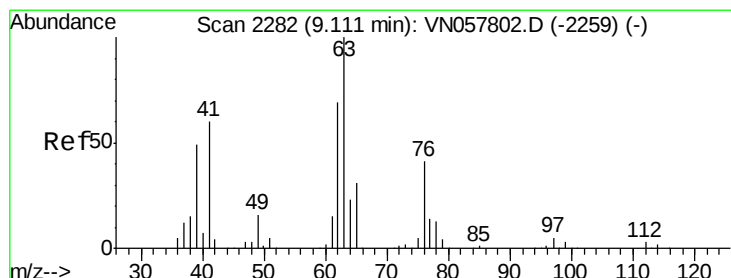
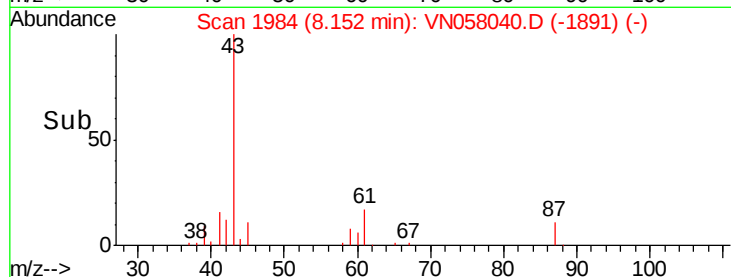
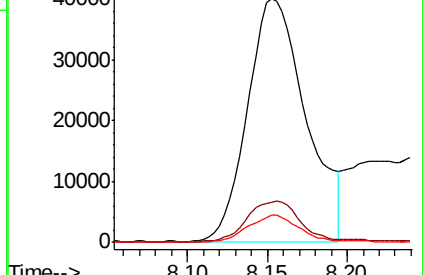
87 9.7 9.5 14.3



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-1966) (-)

Ion 61.00 (60.70 to 61.70): VN057802.D (-1966) (-)

Ion 87.00 (86.70 to 87.70): VN057802.D (-1966) (-)



#45

1,2-Dichloropropane

Concen: 0.273 ug/l

RT: 9.26 min Scan# 2327

Delta R.T. 0.14 min

Lab File: VN058040.D

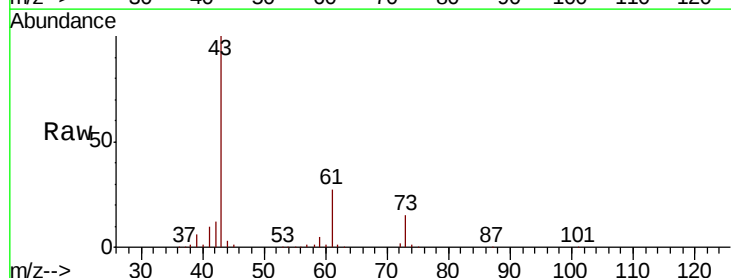
Acq: 14 Sep 2019 00:09

Tgt Ion: 63 Resp: 1468

Ion Ratio Lower Upper

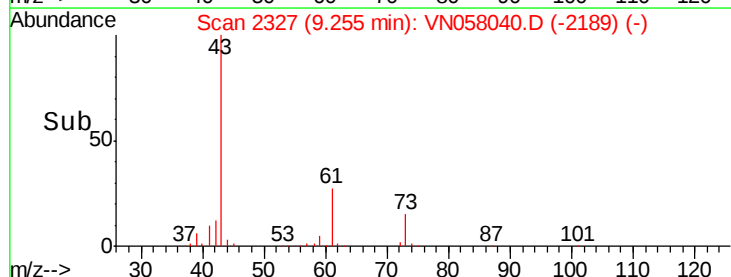
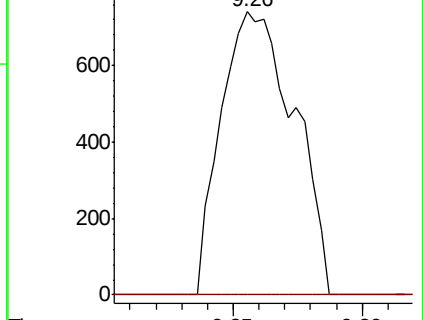
63 100

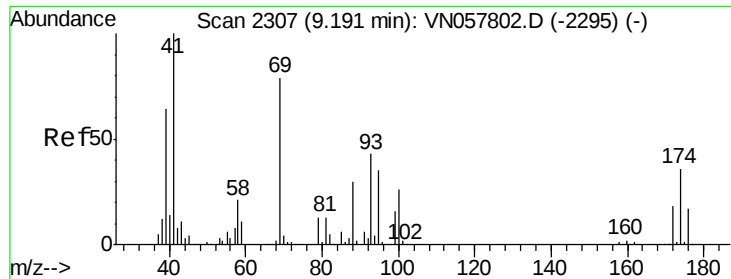
65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VN057802.D (-2259) (-)

Ion 64.90 (64.60 to 65.60): VN057802.D (-2259) (-)

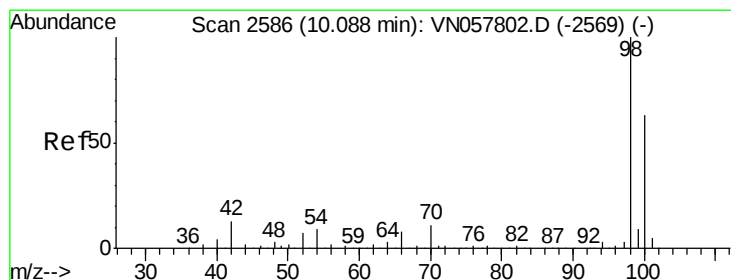
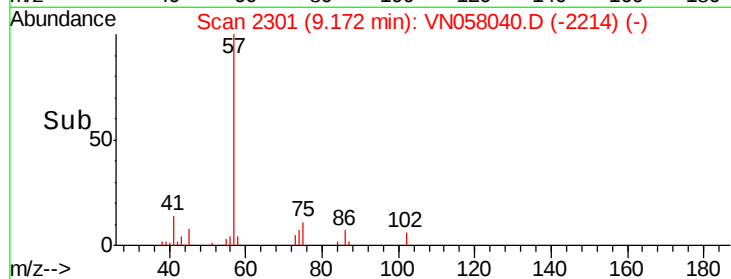
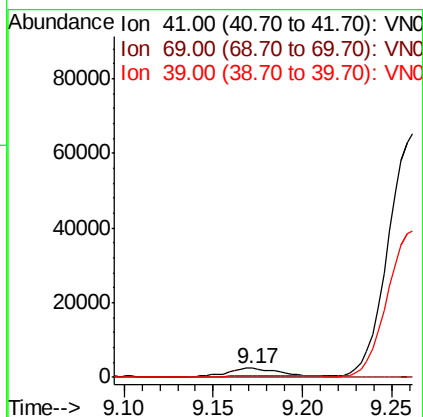
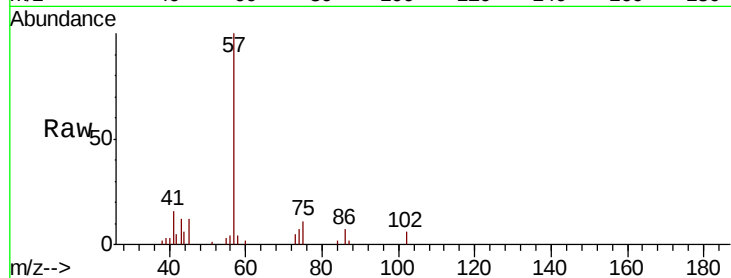




#48
Methyl methacrylate
Concen: 0.884 ug/l
RT: 9.17 min Scan# 2301
Delta R.T. -0.02 min
Lab File: VN058040.D
Acq: 14 Sep 2019 00:09

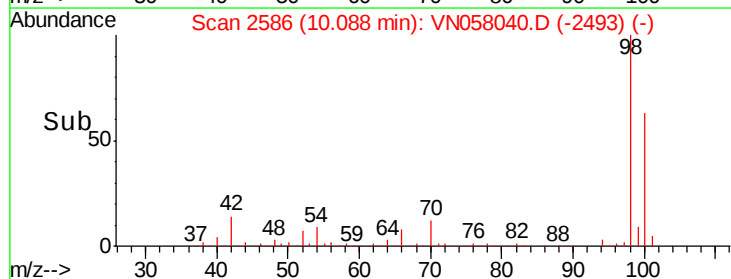
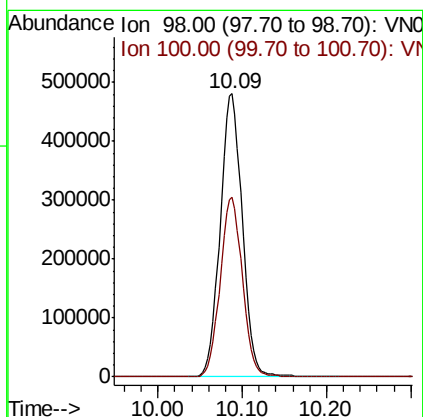
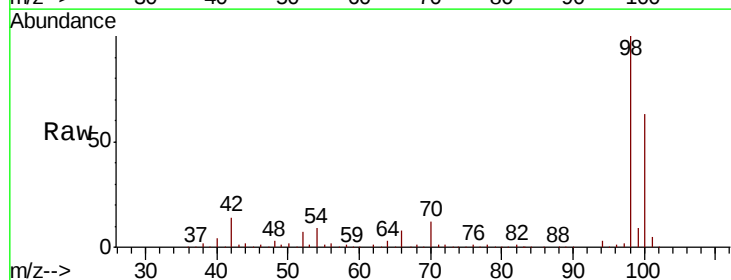
Instrument :
MSVOA_N
ClientSampleId :
T2-1-(0)

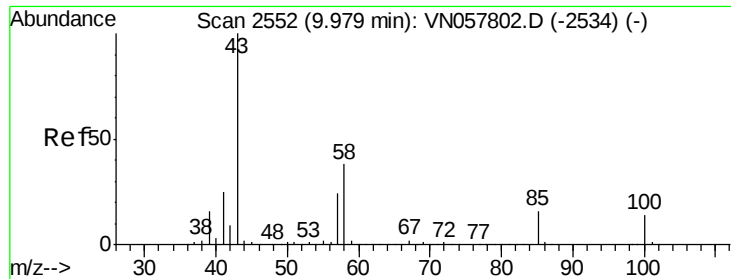
Tgt Ion: 41 Resp: 4777
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#



#50
Toluene-d8
Concen: 46.277 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN058040.D
Acq: 14 Sep 2019 00:09

Tgt Ion: 98 Resp: 876701
Ion Ratio Lower Upper
98 100
100 63.5 50.3 75.5

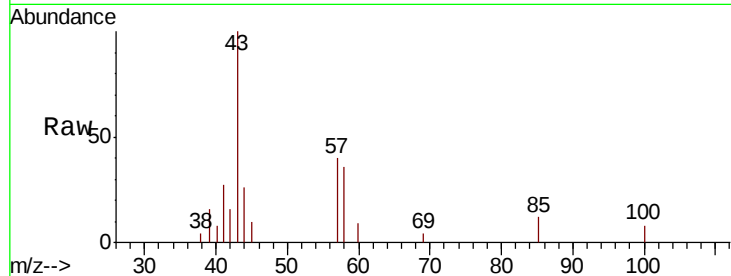




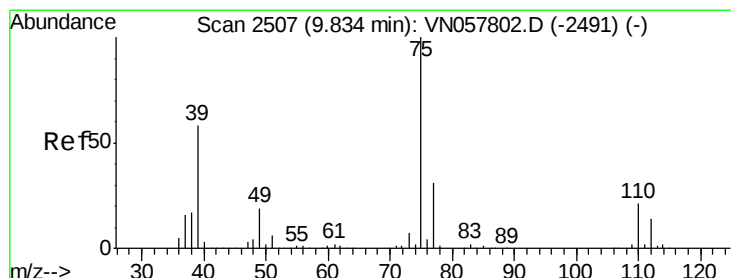
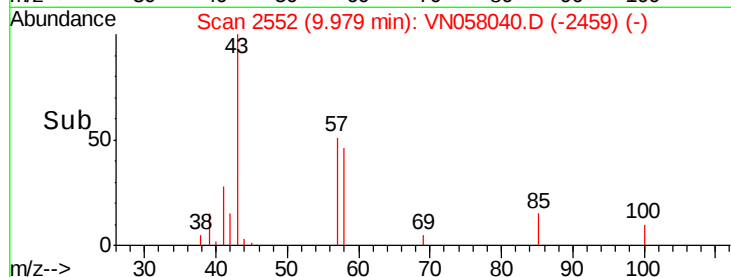
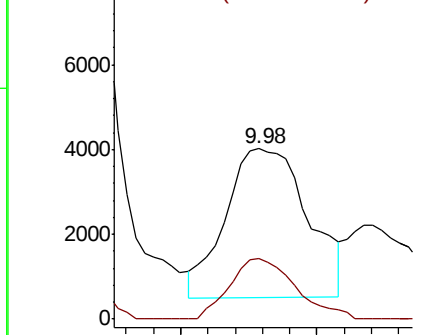
#51
 4-Methyl-2-Pentanone
 Concen: 1.176 ug/l
 RT: 9.98 min Scan# 2552
 Delta R.T. 0.00 min
 Lab File: VN058040.D
 Acq: 14 Sep 2019 00:09

Instrument :
 MSVOA_N
 ClientSampled :
 T2-1-(0)

Tgt Ion: 43 Resp: 7413
 Ion Ratio Lower Upper
 43 100
 58 32.4 29.8 44.6

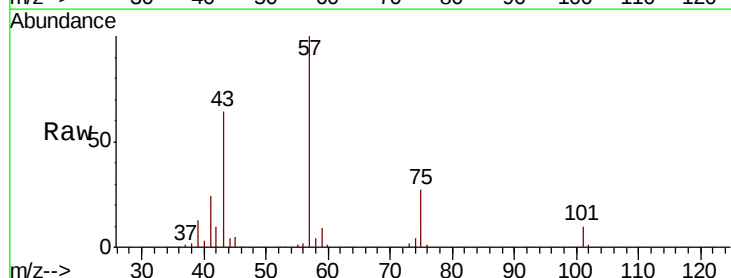


Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

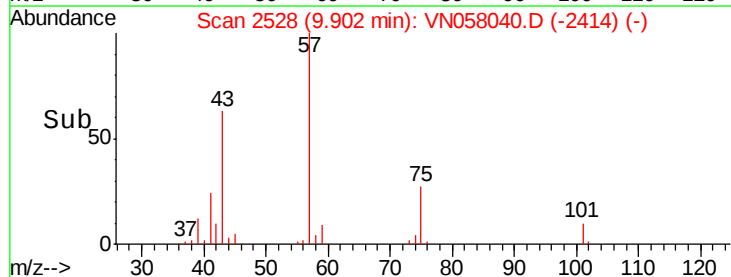
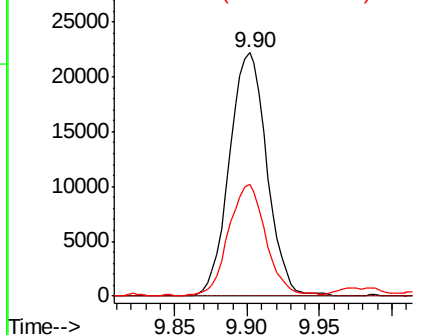


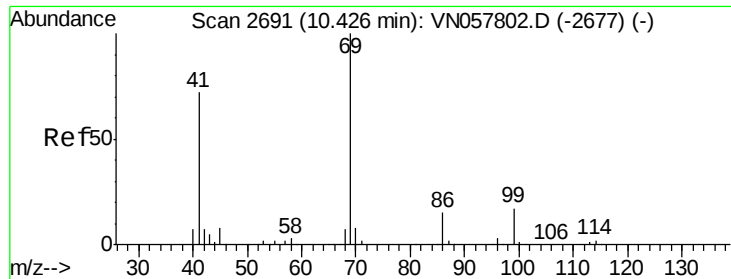
#54
 cis-1,3-Dichloropropene
 Concen: 5.285 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.07 min
 Lab File: VN058040.D
 Acq: 14 Sep 2019 00:09

Tgt Ion: 75 Resp: 39825
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 45.3 46.2 69.4#



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





#56

Ethyl methacrylate

Concen: 0.243 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN058040.D

Acq: 14 Sep 2019 00:09

Instrument :

MSVOA_N

ClientSampled :

T2-1-(0)

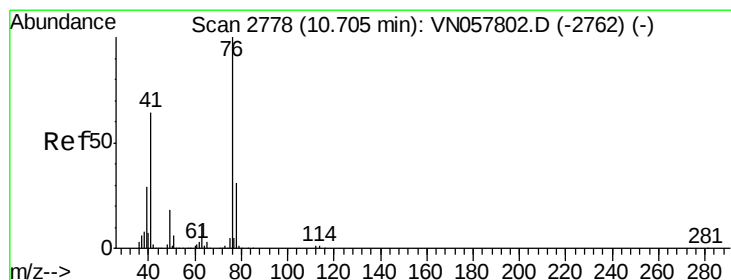
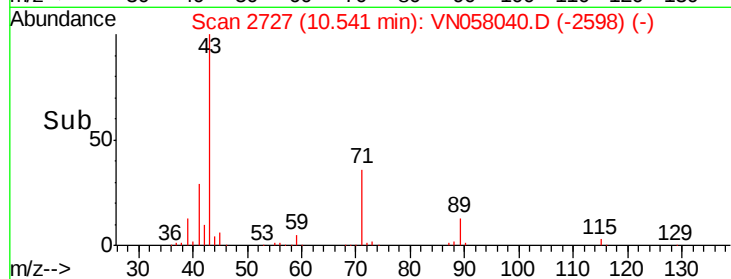
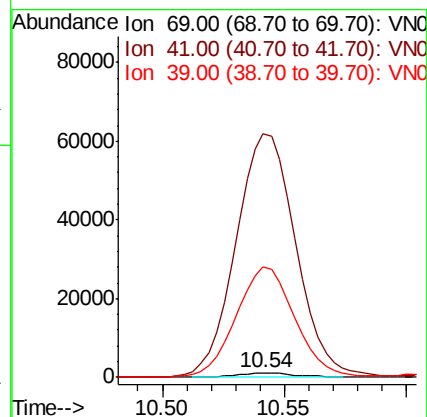
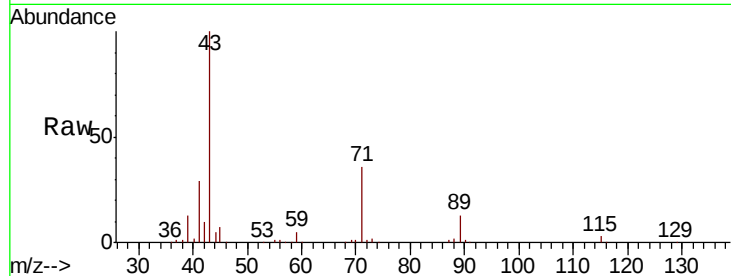
Tgt Ion: 69 Resp: 1800

Ion Ratio Lower Upper

69 100

41 5894.1 56.7 85.1#

39 2617.7 36.3 54.5#



#57

1,3-Dichloropropane

Concen: 0.629 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.05 min

Lab File: VN058040.D

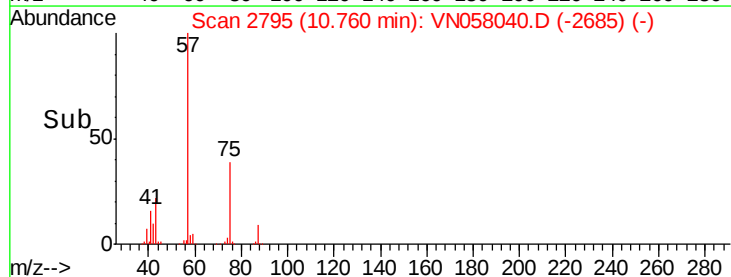
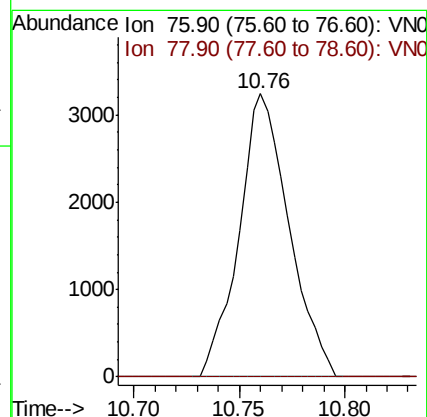
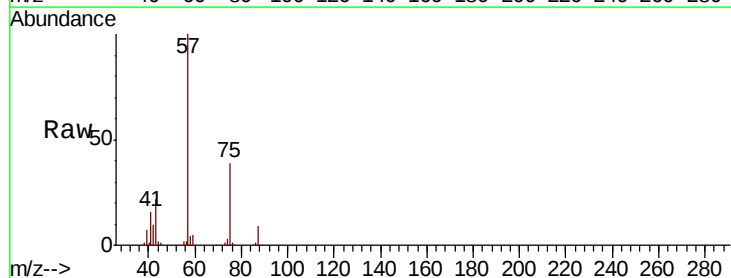
Acq: 14 Sep 2019 00:09

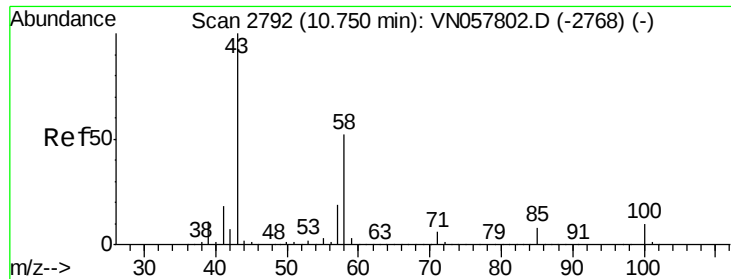
Tgt Ion: 76 Resp: 5340

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#

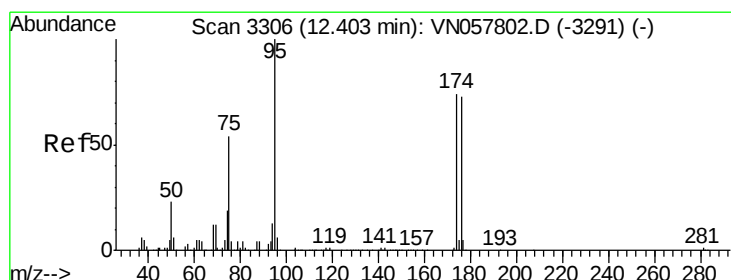
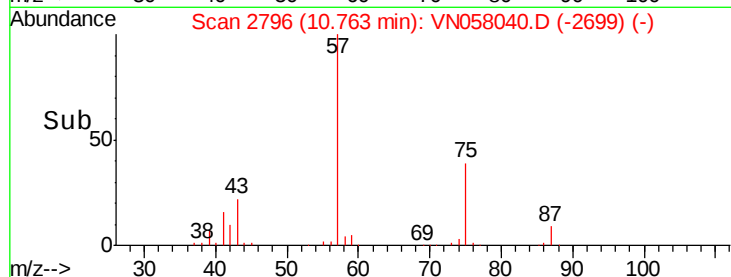
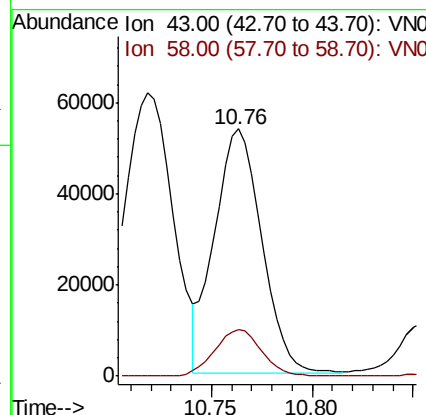
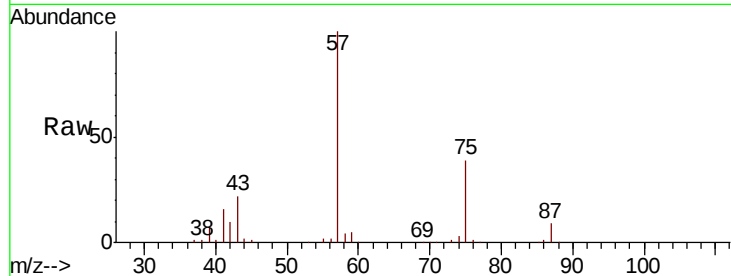




#59
2-Hexanone
Concen: 18.681 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN058040.D
Acq: 14 Sep 2019 00:09

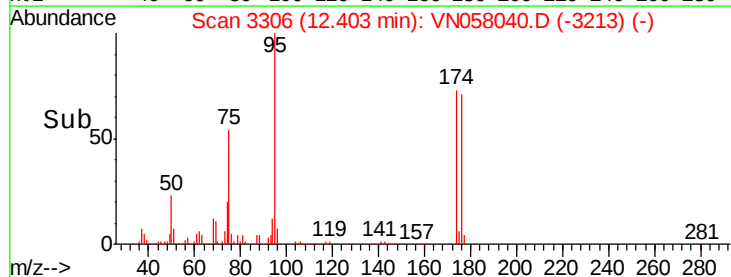
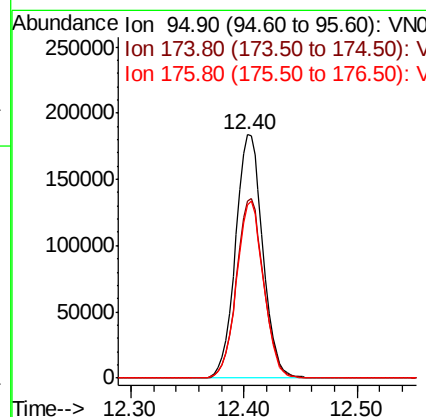
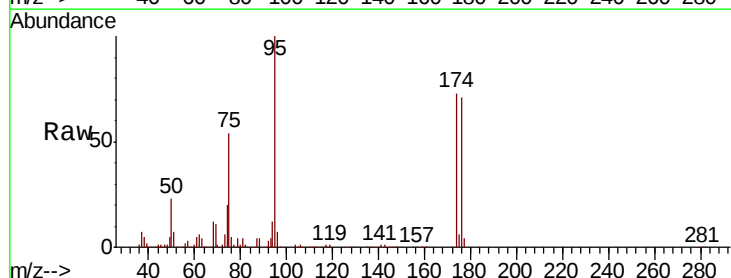
Instrument :
MSVOA_N
ClientSampleId :
T2-1-(0)

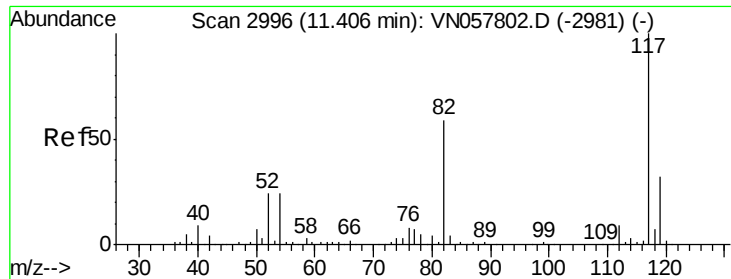
Tgt Ion: 43 Resp: 88268
Ion Ratio Lower Upper
43 100
58 18.7 25.6 76.8#



#62
4-Bromofluorobenzene
Concen: 42.589 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN058040.D
Acq: 14 Sep 2019 00:09

Tgt Ion: 95 Resp: 307477
Ion Ratio Lower Upper
95 100
174 73.9 0.0 150.2
176 71.9 0.0 146.0

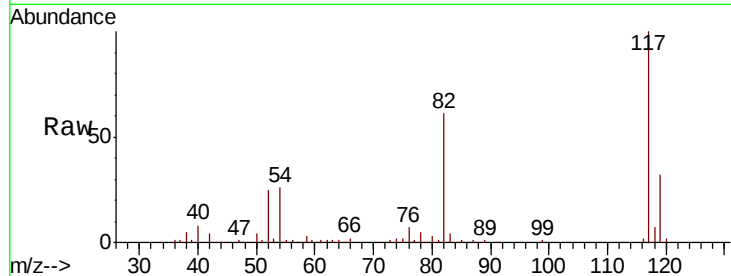




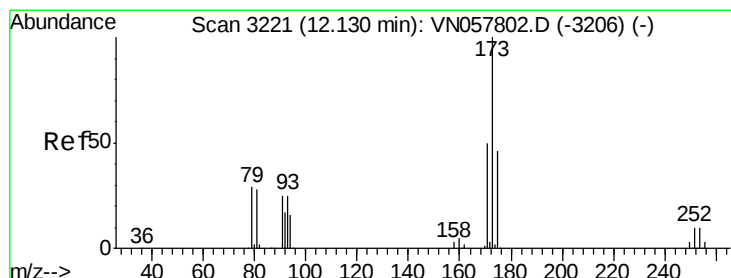
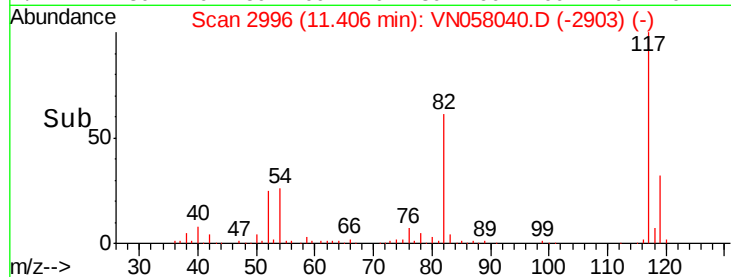
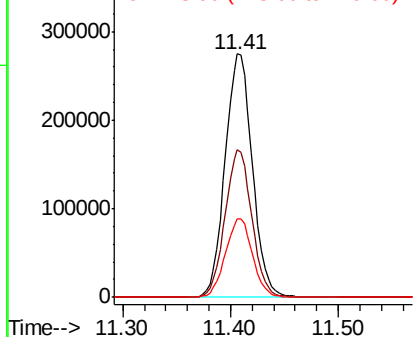
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058040.D
Acq: 14 Sep 2019 00:09

Instrument :
MSVOA_N
ClientSampleId :
T2-1-(0)

Tgt Ion:117 Resp: 483327
Ion Ratio Lower Upper
117 100
82 60.7 47.2 70.8
119 32.1 25.3 37.9

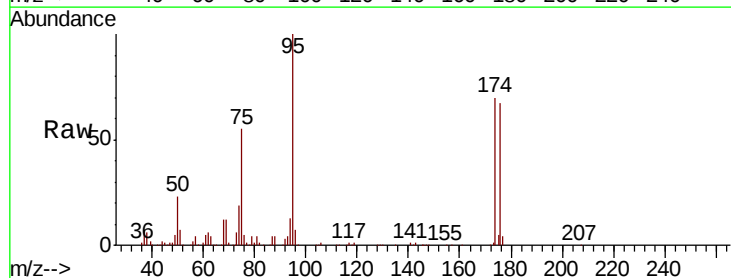


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

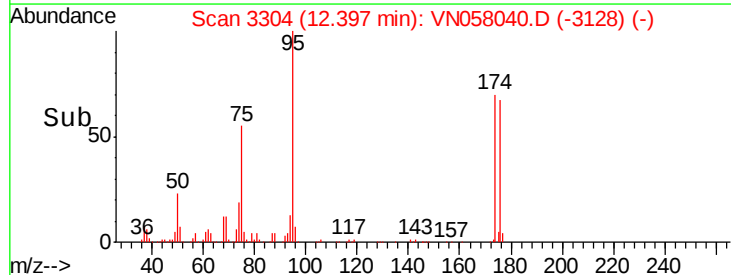
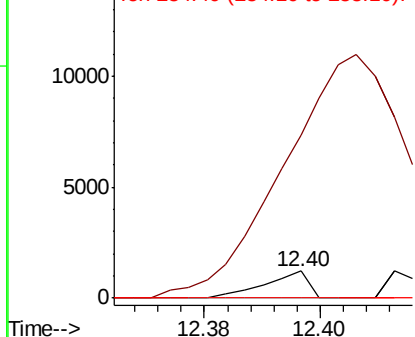


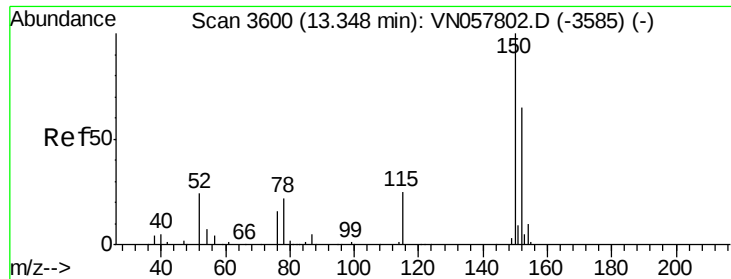
#71
Bromoform
Concen: 0.234 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN058040.D
Acq: 14 Sep 2019 00:09

Tgt Ion:173 Resp: 640
Ion Ratio Lower Upper
173 100
175 0.0 23.5 70.6#
254 0.0 0.1 0.1#



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058040.D

Acq: 14 Sep 2019 00:09

Instrument :

MSVOA_N

ClientSampleId :

T2-1-(0)

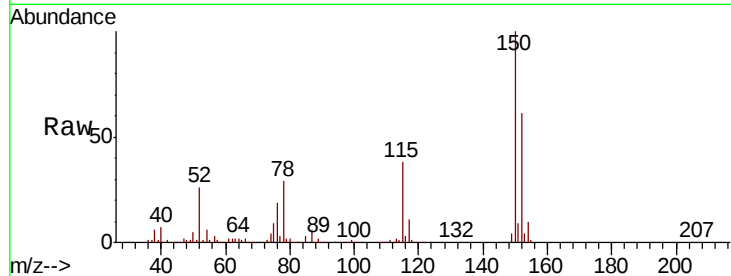
Tgt Ion:152 Resp: 245133

Ion Ratio Lower Upper

152 100

115 61.5 30.3 91.0

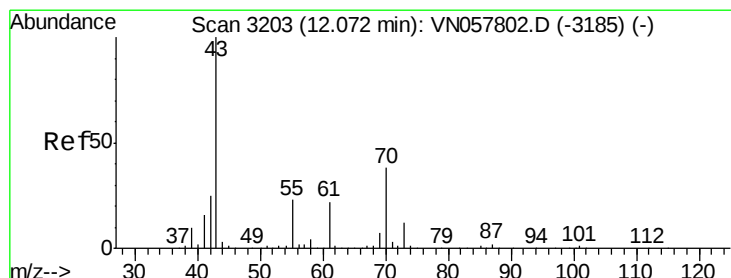
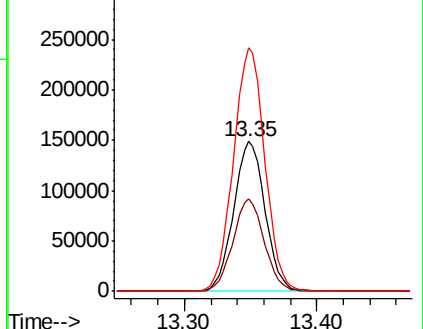
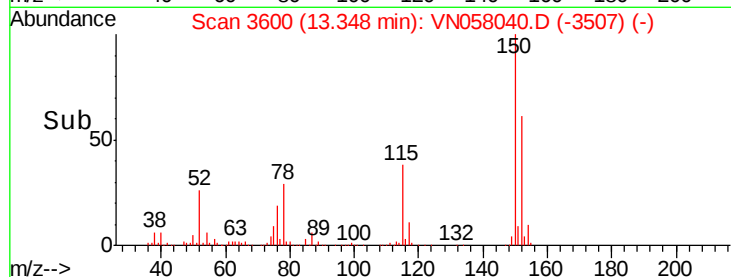
150 161.7 0.0 352.4



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: 0.270 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN058040.D

Acq: 14 Sep 2019 00:09

Tgt Ion: 43 Resp: 2235

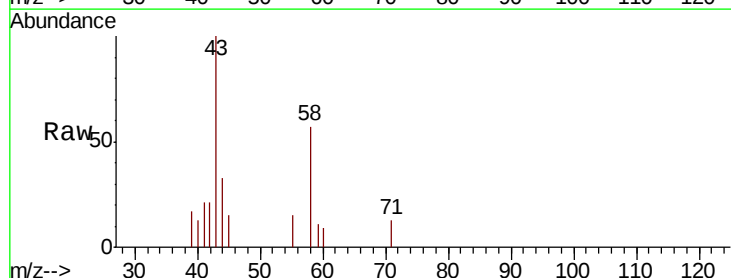
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 11.7 18.6 27.8#

61 0.0 17.4 26.2#

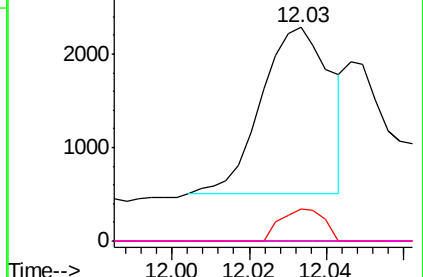
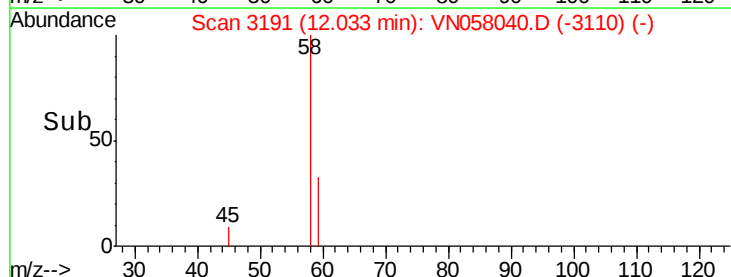


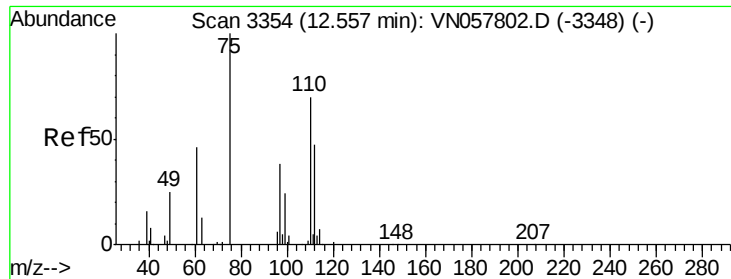
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 29.980 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058040.D

Acq: 14 Sep 2019 00:09

Instrument :

MSVOA_N

ClientSampled :

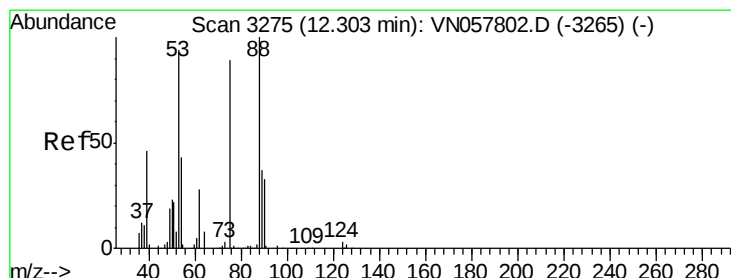
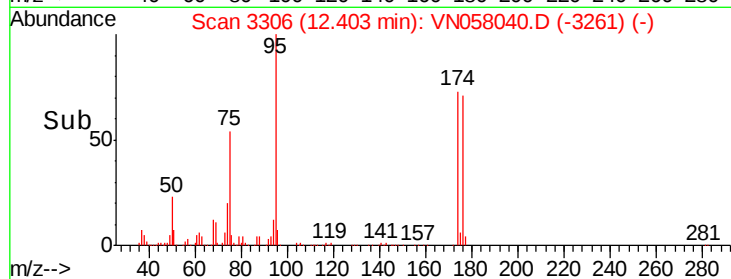
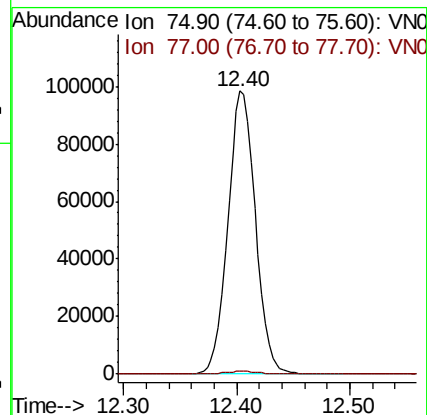
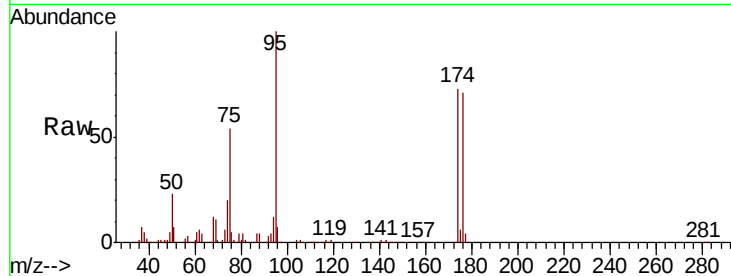
T2-1-(0)

Tgt Ion: 75 Resp: 166249

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 105.500 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058040.D

Acq: 14 Sep 2019 00:09

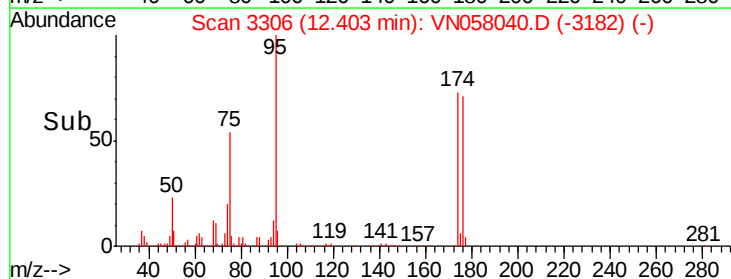
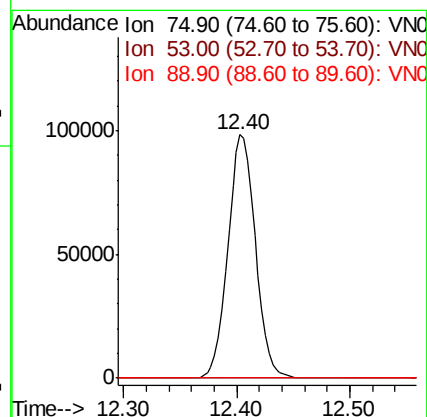
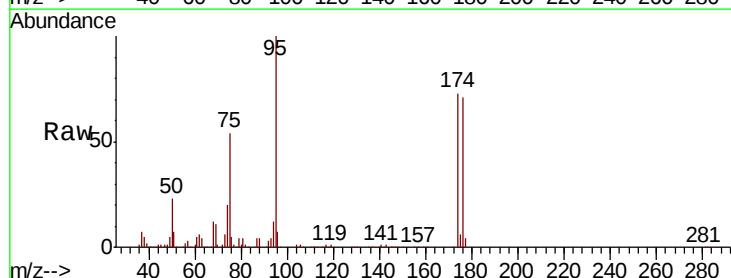
Tgt Ion: 75 Resp: 166249

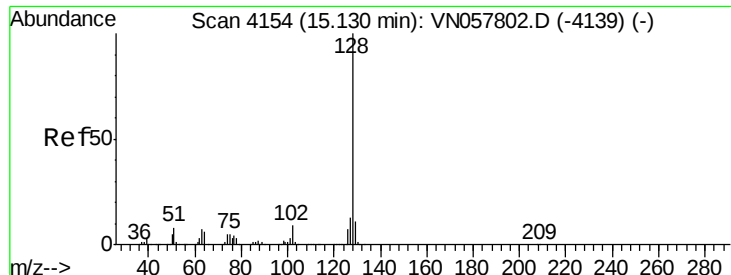
Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

89 0.0 35.3 52.9#

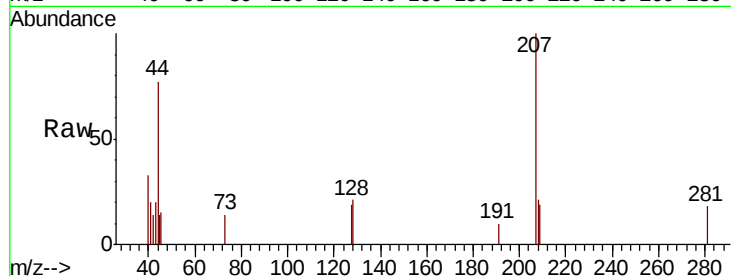




#95
Naphthalene
Concen: Below Cal
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN058040.D
Acq: 14 Sep 2019 00:09

Instrument :
MSVOA_N
ClientSampleId :
T2-1-(0)

Tgt Ion:128 Resp: 328
Ion Ratio Lower Upper
128 100
127 10.1 10.3 15.5#
129 0.0 8.6 12.8#



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

