

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091319\
 Data File : VN057960.D
 Acq On : 12 Sep 2019 11:14
 Operator : JC/SP
 Sample : K4835-03
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PZ-3RE

Quant Time: Sep 13 04:42:04 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	247093	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	403142	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	364677	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	193602	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	242738	48.50	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	97.00%	
35) Dibromofluoromethane	7.58	113	166610	44.78	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	89.56%	
50) Toluene-d8	10.09	98	355533	24.61	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	49.22%	
62) 4-Bromofluorobenzene	12.41	95	201462	36.59	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	73.18%	

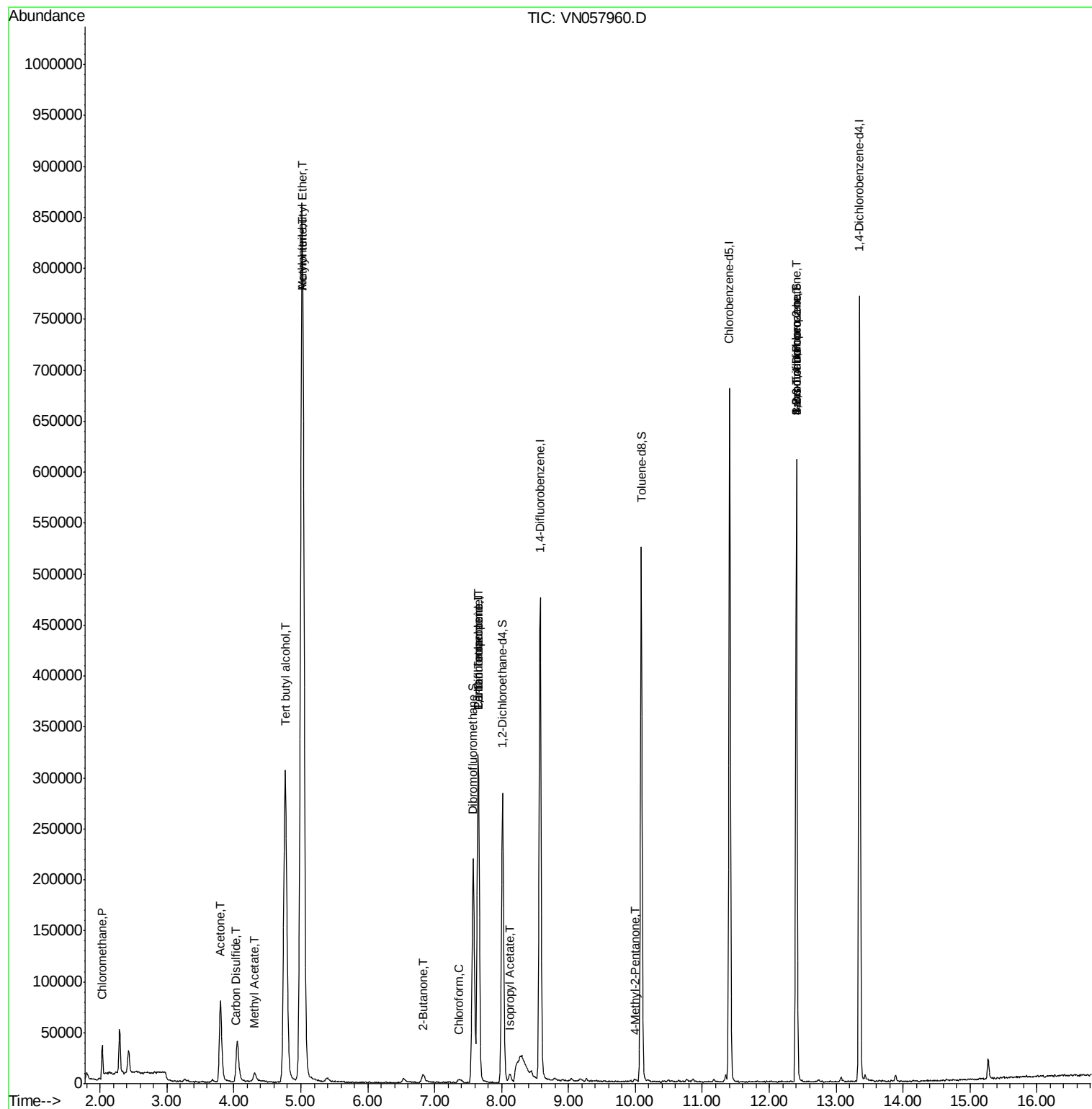
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	21589	6.199	ug/l	94
5) Bromomethane	2.54	94	761	Below Cal	#	72
11) Tert butyl alcohol	4.77	59	517913	855.029	ug/l	99
15) Acrylonitrile	5.01	53	17703	10.633	ug/l #	23
16) Acetone	3.80	43	132765	80.923	ug/l	97
17) Carbon Disulfide	4.01	76	407	0.258	ug/l #	75
18) Methyl Acetate	4.31	43	14144	3.233	ug/l #	83
19) Methyl tert-butyl Ether	5.02	73	1455333	132.911	ug/l	99
20) Methylene Chloride	4.52	84	296	Below Cal	#	49
25) 2-Butanone	6.83	43	13662	5.753	ug/l	90
30) Chloroform	7.36	83	2594	0.376	ug/l	92
31) Cyclohexane	7.64	56	2936	Below Cal	#	23
36) 1,1-Dichloropropene	7.65	75	22869	4.891	ug/l #	50
38) Carbon Tetrachloride	7.65	117	25697	6.020	ug/l #	18
43) Isopropyl Acetate	8.13	43	2447	0.301	ug/l #	56
51) 4-Methyl-2-Pentanone	9.99	43	1314	0.273	ug/l	96
71) Bromoform	12.41	173	469	0.227	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	113094	25.823	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	113094	90.871	ug/l #	6
95) Naphthalene	15.14	128	735	Below Cal	#	69

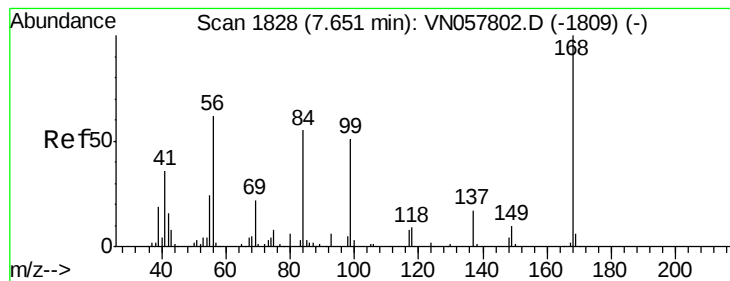
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057960.D

Acq: 12 Sep 2019 11:14

Instrument :

MSVOA_N

ClientSampleId :

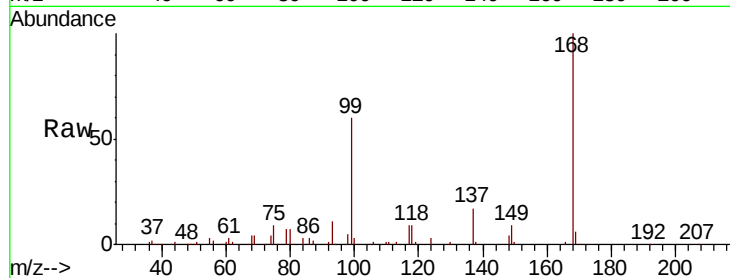
PZ-3RE

Tgt Ion:168 Resp: 247093

Ion Ratio Lower Upper

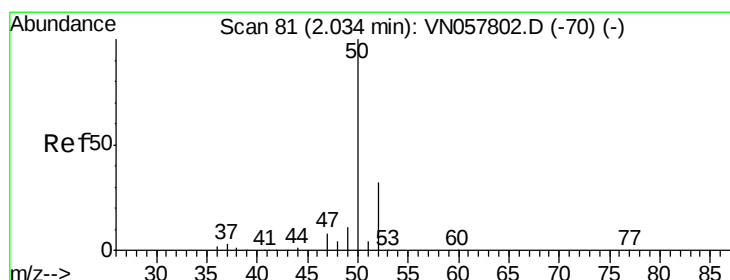
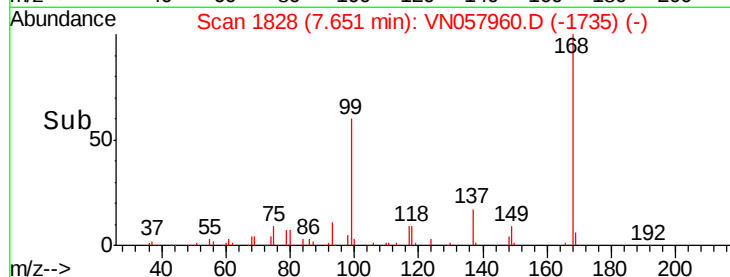
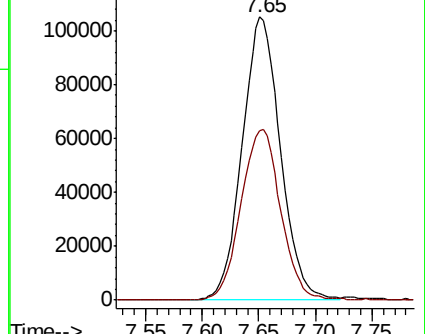
168 100

99 59.9 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) (-)



#3

Chloromethane

Concen: 6.199 ug/l

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN057960.D

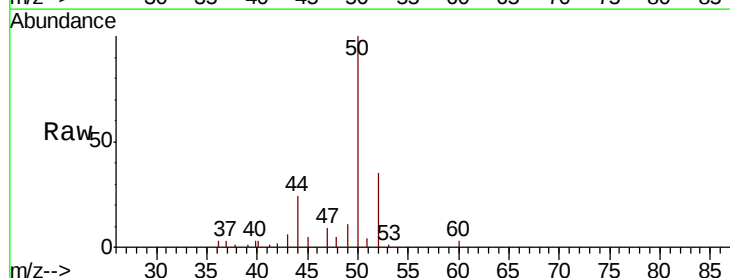
Acq: 12 Sep 2019 11:14

Tgt Ion: 50 Resp: 21589

Ion Ratio Lower Upper

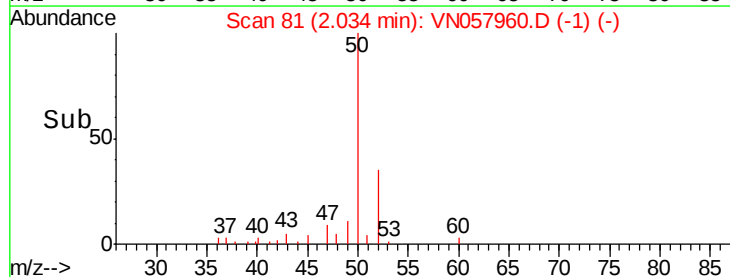
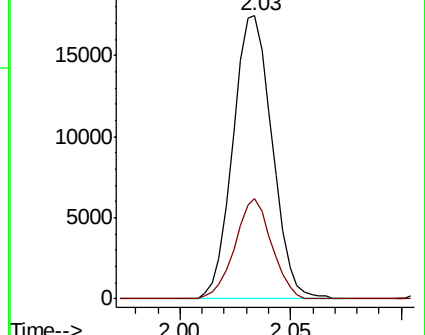
50 100

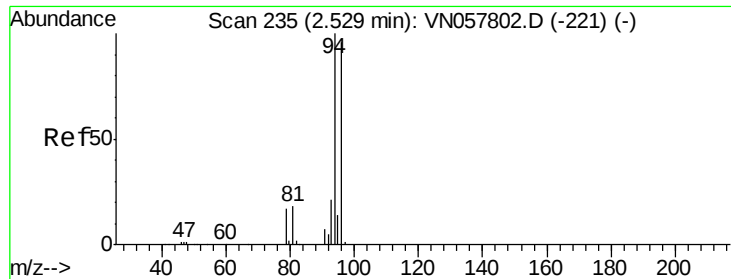
52 35.5 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VN057802.D (-70) (-)

Ion 51.90 (51.60 to 52.60): VN057802.D (-70) (-)





#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 237

Delta R.T. 0.01 min

Lab File: VN057960.D

Acq: 12 Sep 2019 11:14

Instrument :

MSVOA_N

ClientSampleId :

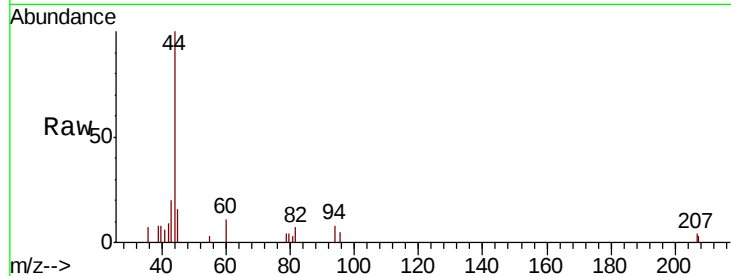
PZ-3RE

Tgt Ion: 94 Resp: 761

Ion Ratio Lower Upper

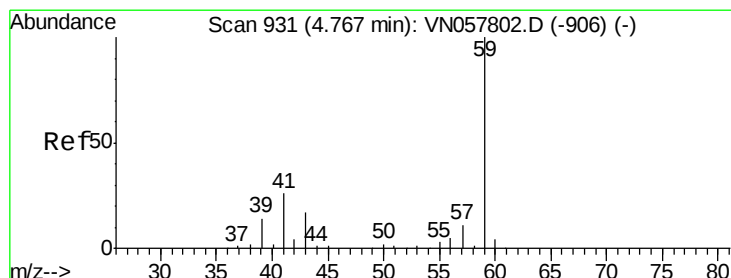
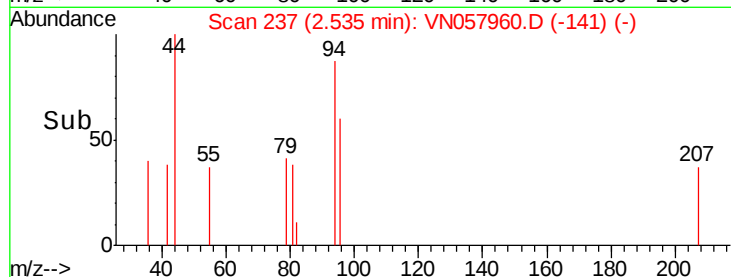
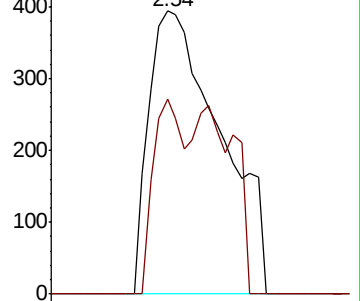
94 100

96 69.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#11

Tert butyl alcohol

Concen: 855.029 ug/l

RT: 4.77 min Scan# 932

Delta R.T. 0.00 min

Lab File: VN057960.D

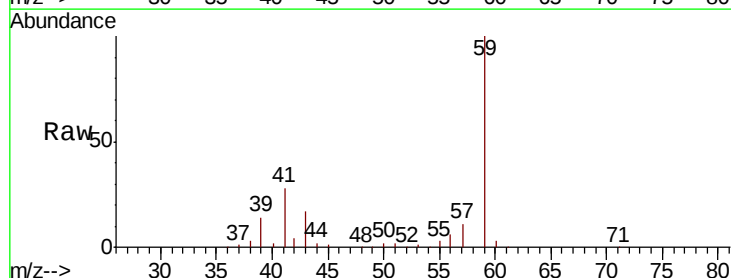
Acq: 12 Sep 2019 11:14

Tgt Ion: 59 Resp: 517913

Ion Ratio Lower Upper

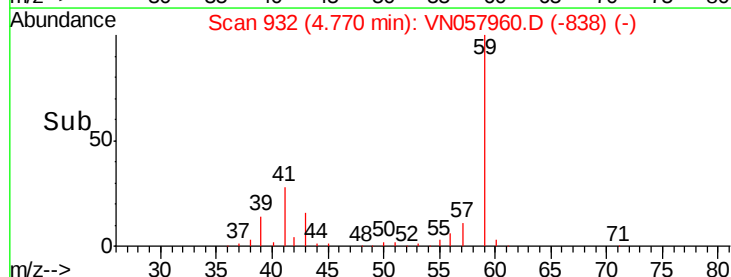
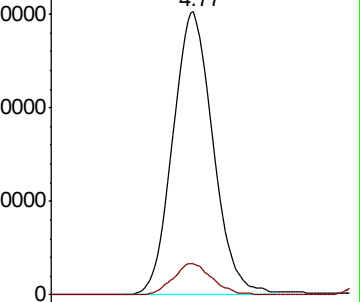
59 100

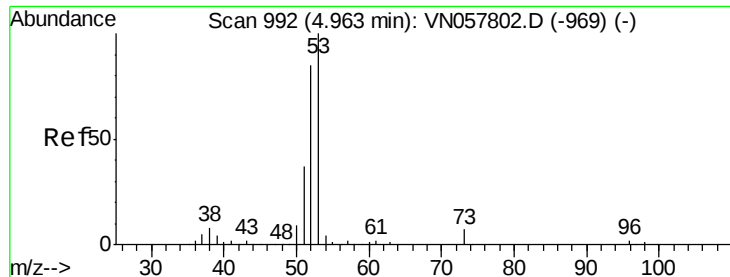
57 10.8 8.4 12.6



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#15

Acrylonitrile

Concen: 10.633 ug/l

RT: 5.01 min Scan# 1008

Delta R.T. 0.05 min

Lab File: VN057960.D

Acq: 12 Sep 2019 11:14

Instrument :

MSVOA_N

ClientSampleId :

PZ-3RE

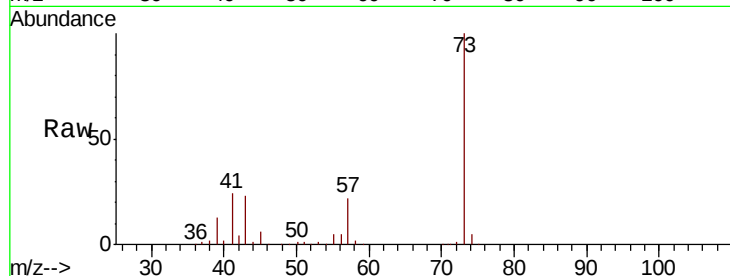
Tgt Ion: 53 Resp: 17703

Ion Ratio Lower Upper

53 100

52 13.9 66.6 100.0#

51 83.6 29.8 44.8#

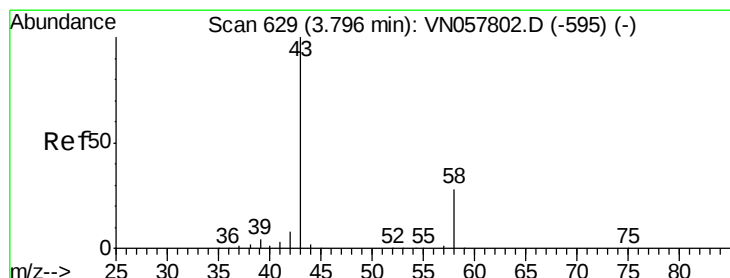
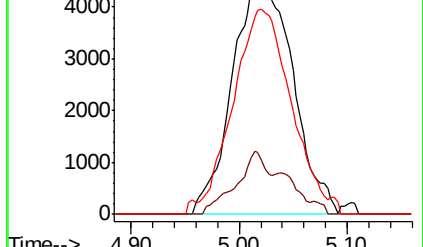
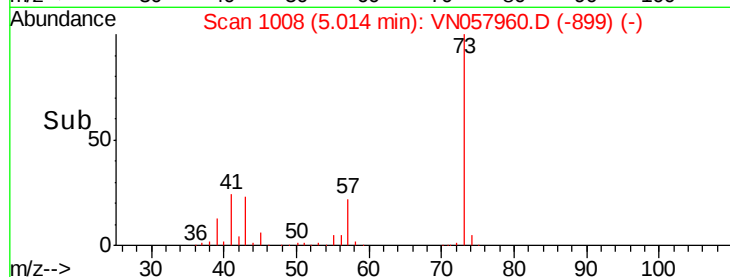


Abundance Ion 53.00 (52.70 to 53.70): VN057960.D (-1008) (-)

Ion 52.00 (51.70 to 52.70): VN057960.D (-1008) (-)

Ion 51.00 (50.70 to 51.70): VN057960.D (-1008) (-)

Time-->



#16

Acetone

Concen: 80.923 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN057960.D

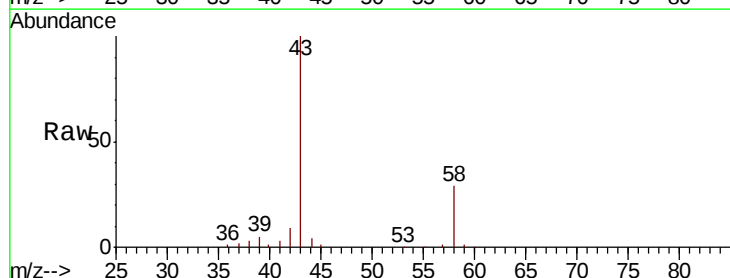
Acq: 12 Sep 2019 11:14

Tgt Ion: 43 Resp: 132765

Ion Ratio Lower Upper

43 100

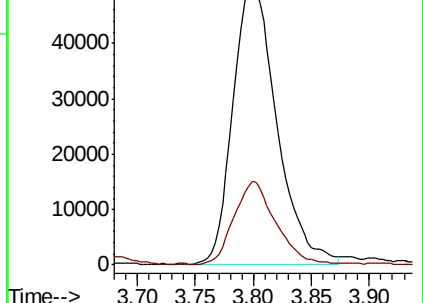
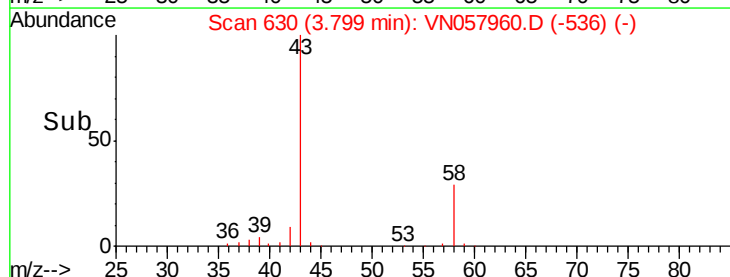
58 29.5 22.2 33.2

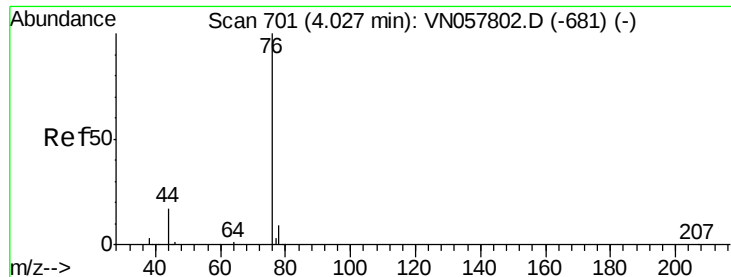


Abundance Ion 43.00 (42.70 to 43.70): VN057960.D (-630) (-)

Ion 58.00 (57.70 to 58.70): VN057960.D (-630) (-)

Time-->

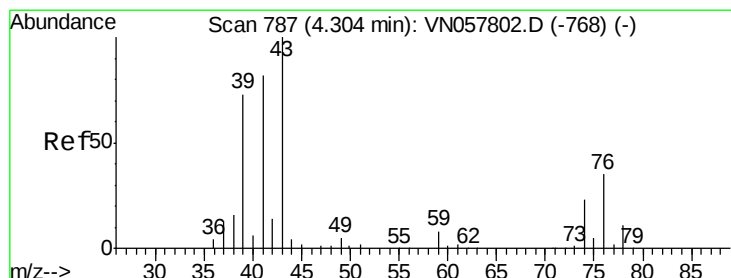
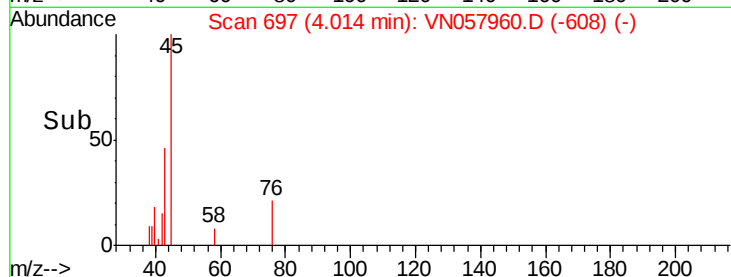
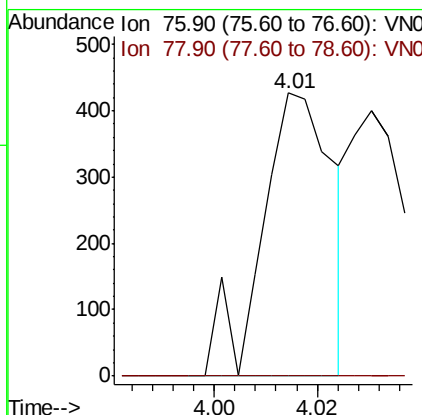
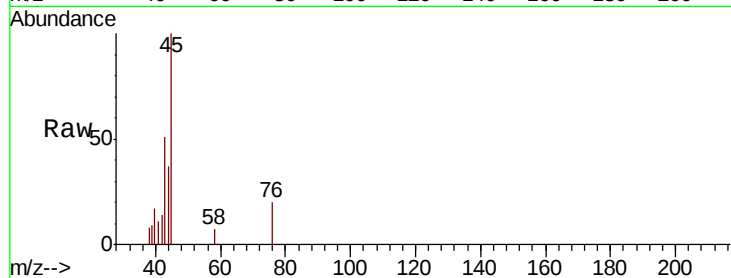




#17
Carbon Disulfide
Concen: 0.258 ug/l
RT: 4.01 min Scan# 697
Delta R.T. -0.01 min
Lab File: VN057960.D
Acq: 12 Sep 2019 11:14

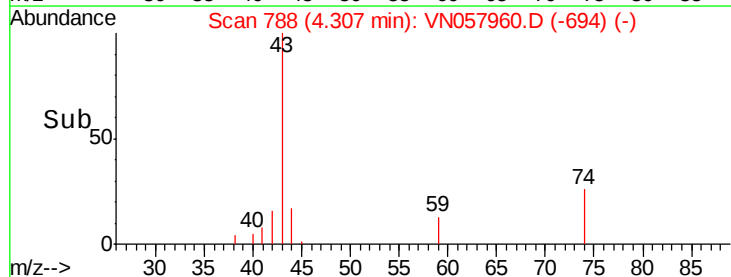
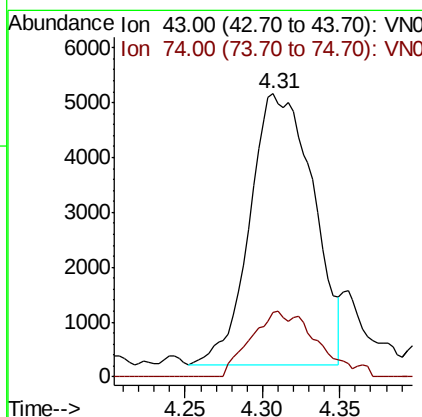
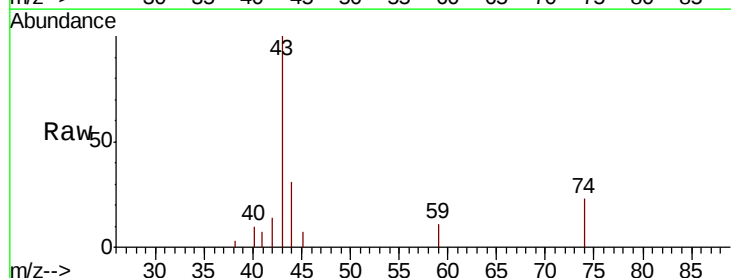
Instrument :
MSVOA_N
ClientSampled :
PZ-3RE

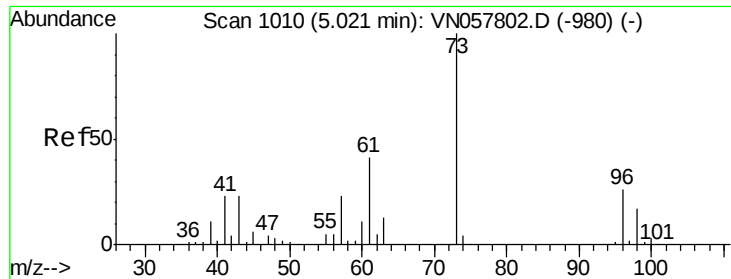
Tgt Ion: 76 Resp: 407
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#



#18
Methyl Acetate
Concen: 3.233 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.00 min
Lab File: VN057960.D
Acq: 12 Sep 2019 11:14

Tgt Ion: 43 Resp: 14144
Ion Ratio Lower Upper
43 100
74 14.1 17.9 26.9#

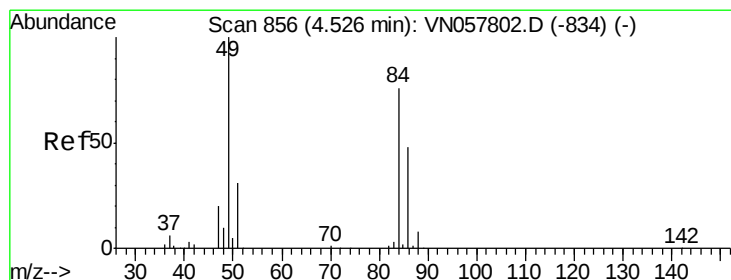
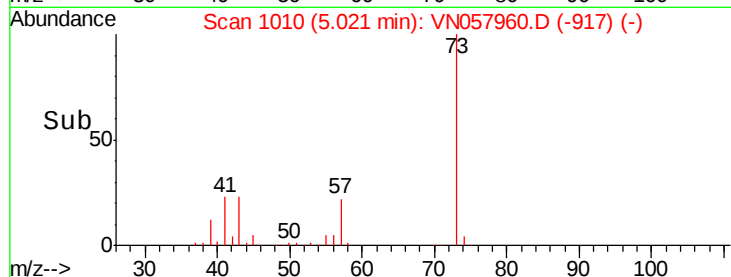
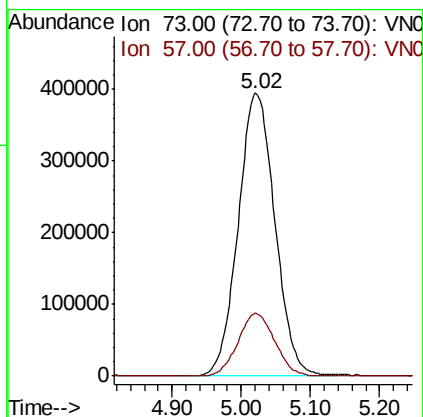
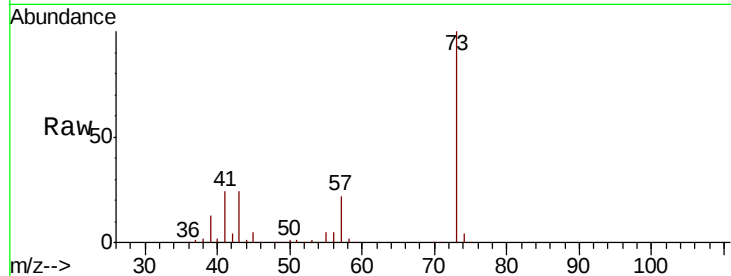




#19
Methyl tert-butyl Ether
Concen: 132.911 ug/l
RT: 5.02 min Scan# 1010
Delta R.T. 0.00 min
Lab File: VN057960.D
Acq: 12 Sep 2019 11:14

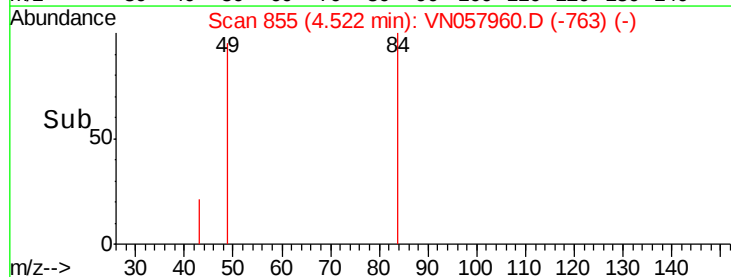
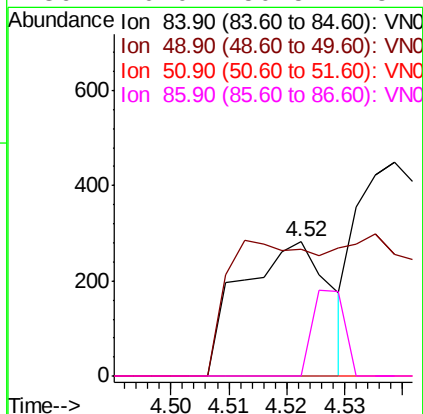
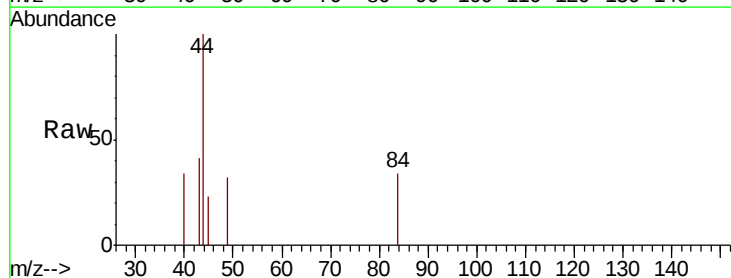
Instrument :
MSVOA_N
ClientSampled :
PZ-3RE

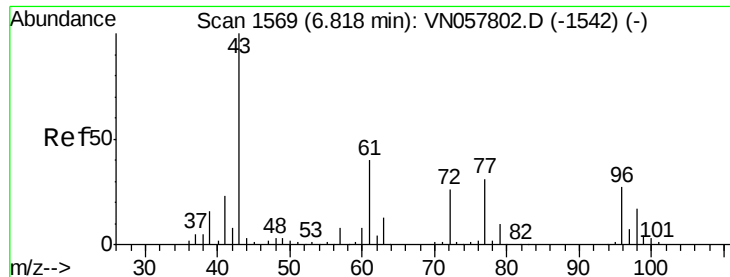
Tgt Ion: 73 Resp: 1455333
Ion Ratio Lower Upper
73 100
57 22.3 18.2 27.2



#20
Methylene Chloride
Concen: Below Cal
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN057960.D
Acq: 12 Sep 2019 11:14

Tgt Ion: 84 Resp: 296
Ion Ratio Lower Upper
84 100
49 94.7 104.8 157.2#
51 0.0 33.0 49.4#
86 0.0 50.5 75.7#

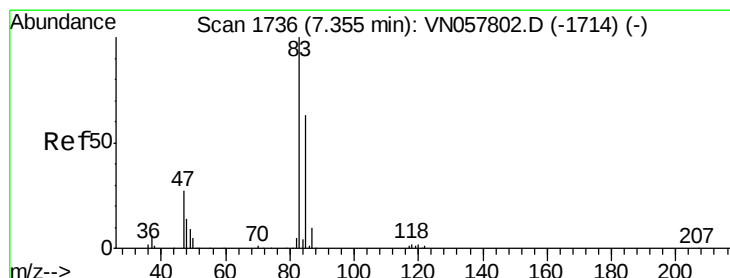
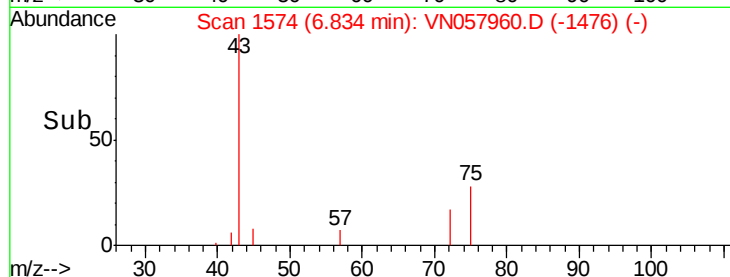
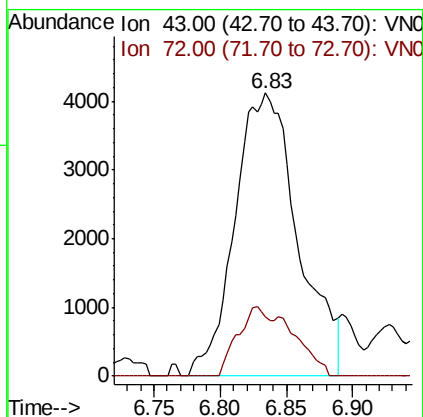
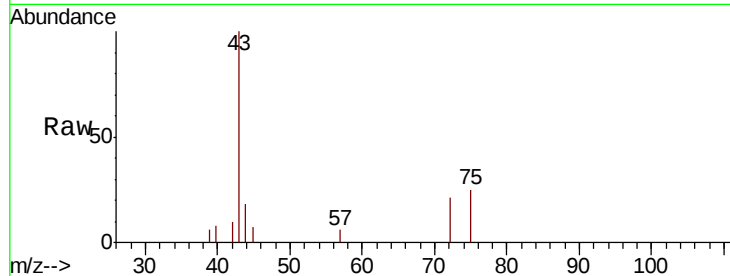




#25
2-Butanone
Concen: 5.753 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.02 min
Lab File: VN057960.D
Acq: 12 Sep 2019 11:14

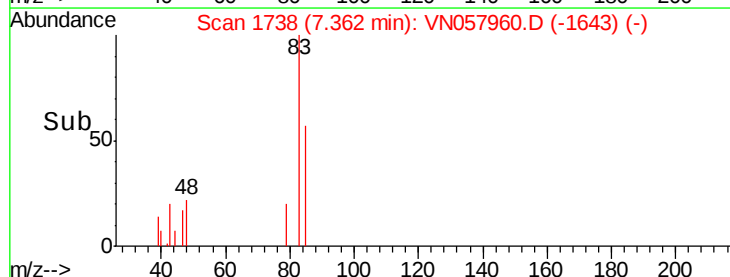
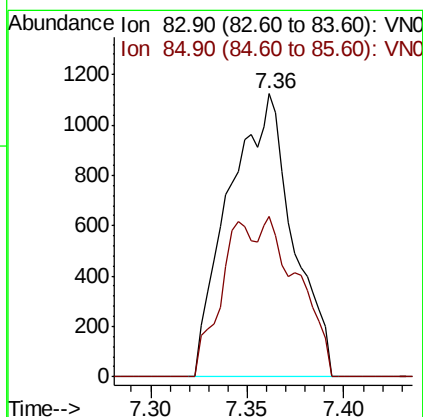
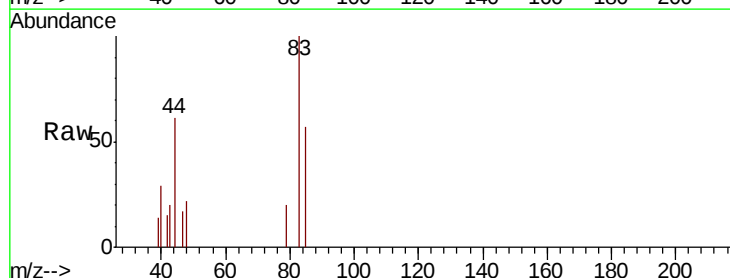
Instrument :
MSVOA_N
ClientSampled :
PZ-3RE

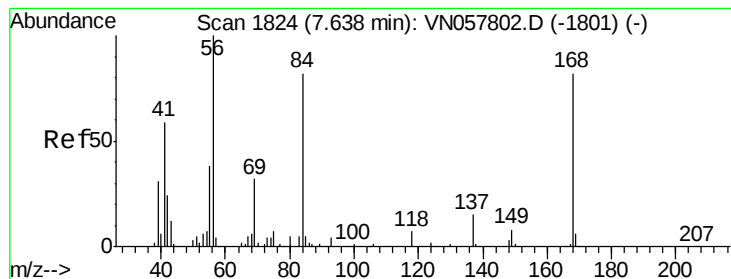
Tgt Ion: 43 Resp: 13662
Ion Ratio Lower Upper
43 100
72 20.9 20.6 30.8



#30
Chloroform
Concen: 0.376 ug/l
RT: 7.36 min Scan# 1738
Delta R.T. 0.01 min
Lab File: VN057960.D
Acq: 12 Sep 2019 11:14

Tgt Ion: 83 Resp: 2594
Ion Ratio Lower Upper
83 100
85 56.6 50.6 75.8





#31

Cyclohexane

Concen: Below Cal

RT: 7.64 min Scan# 1825

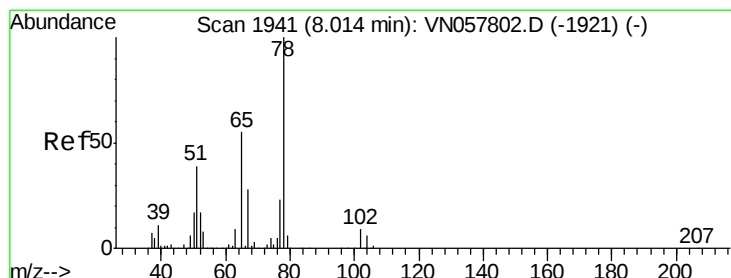
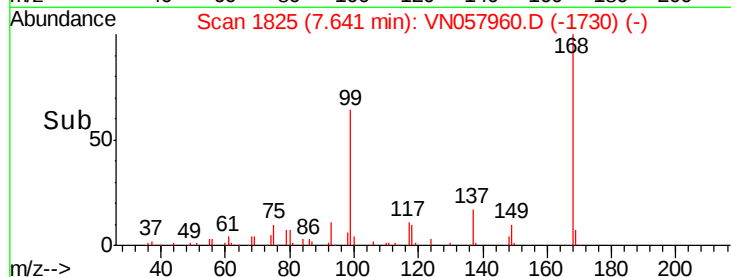
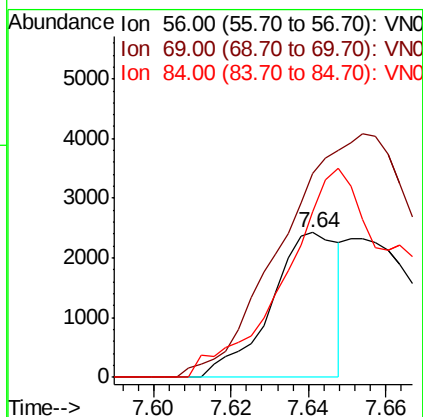
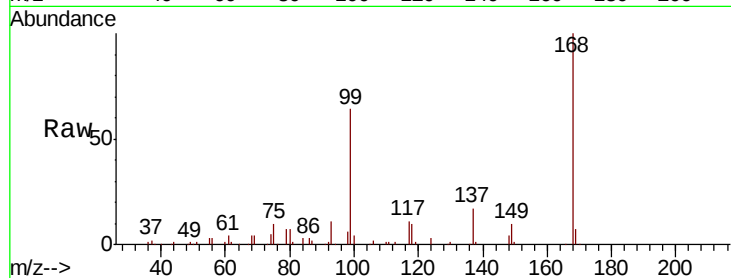
Delta R.T. 0.00 min

Lab File: VN057960.D

Acq: 12 Sep 2019 11:14

Instrument :
MSVOA_N
ClientSampled :
PZ-3RE

Tgt Ion:	56	Resp:	2936
Ion	Ratio	Lower	Upper
56	100		
69	134.1	25.9	38.9#
84	113.9	65.6	98.4#



#33

1,2-Dichloroethane-d4

Concen: 48.502 ug/l

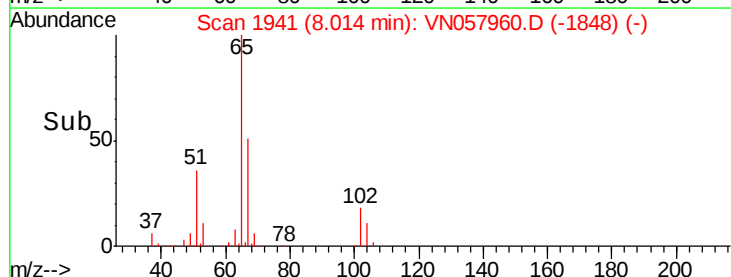
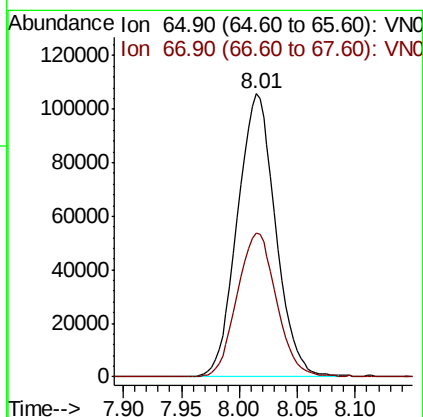
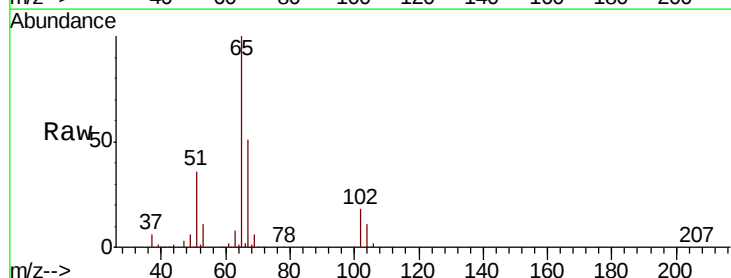
RT: 8.01 min Scan# 1941

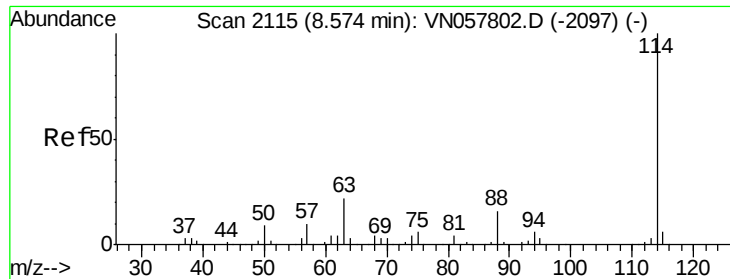
Delta R.T. 0.00 min

Lab File: VN057960.D

Acq: 12 Sep 2019 11:14

Tgt Ion:	65	Resp:	242738
Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	104.0

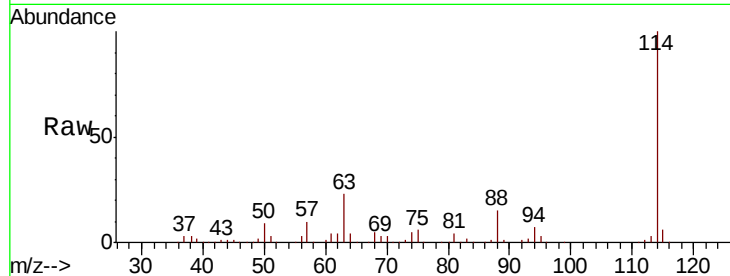




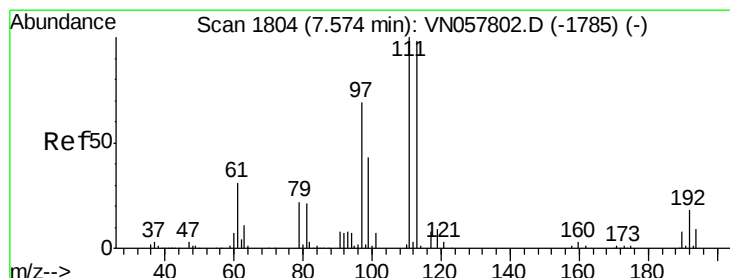
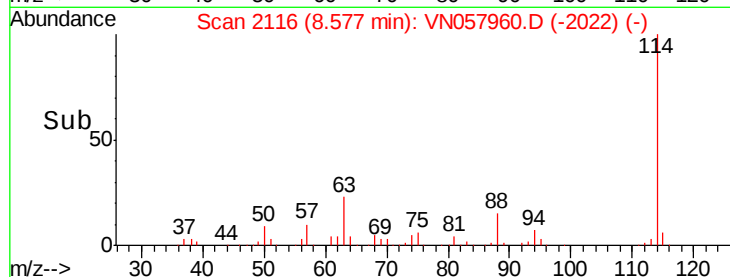
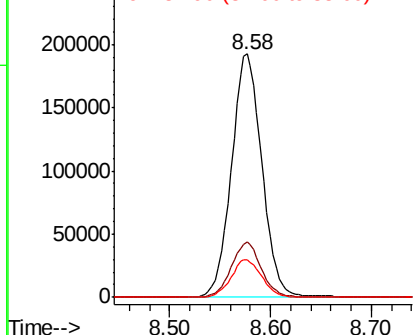
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2116
Delta R.T. 0.00 min
Lab File: VN057960.D
Acq: 12 Sep 2019 11:14

Instrument :
MSVOA_N
ClientSampled :
PZ-3RE

Tgt Ion:114 Resp: 403142
Ion Ratio Lower Upper
114 100
63 22.6 0.0 44.0
88 15.3 0.0 31.4

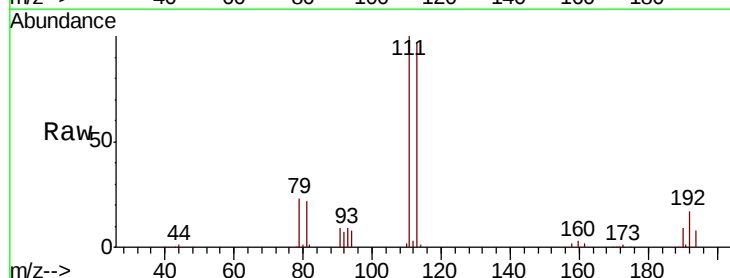


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

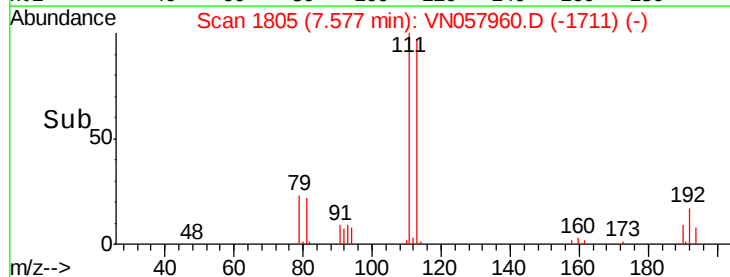
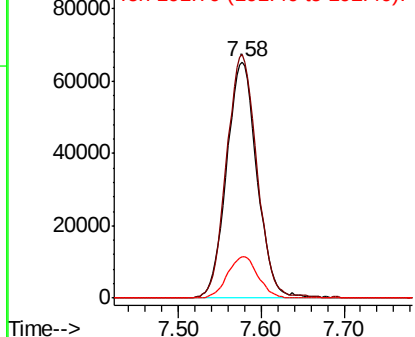


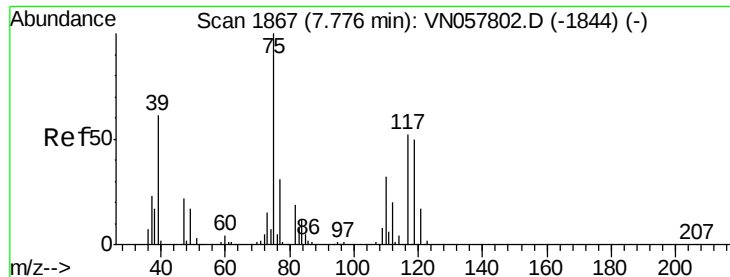
#35
Dibromofluoromethane
Concen: 44.778 ug/l
RT: 7.58 min Scan# 1805
Delta R.T. 0.00 min
Lab File: VN057960.D
Acq: 12 Sep 2019 11:14

Tgt Ion:113 Resp: 166610
Ion Ratio Lower Upper
113 100
111 103.3 81.3 121.9
192 17.5 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

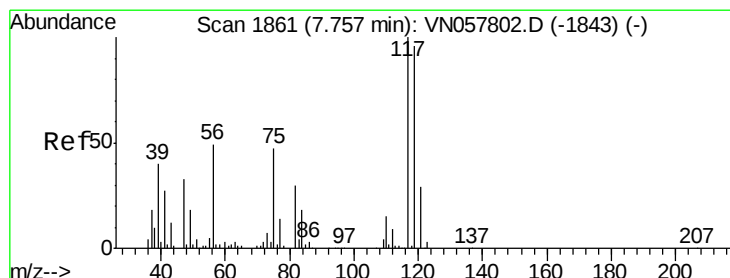
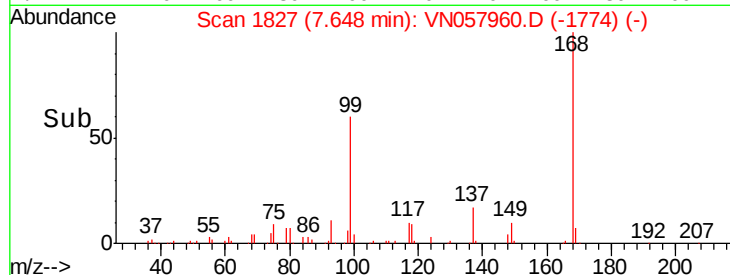
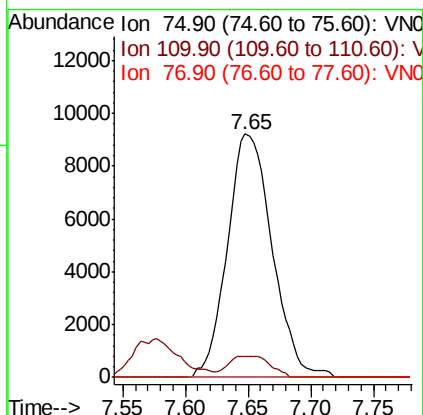
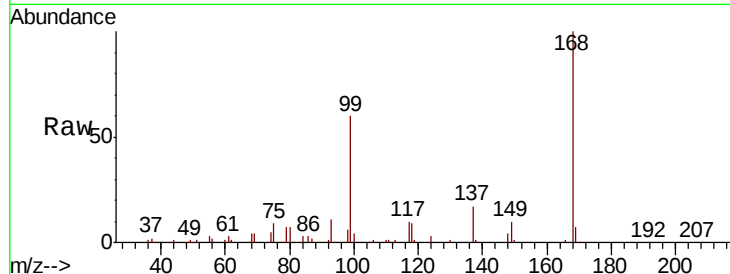




#36
 1,1-Dichloropropene
 Concen: 4.891 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN057960.D
 Acq: 12 Sep 2019 11:14

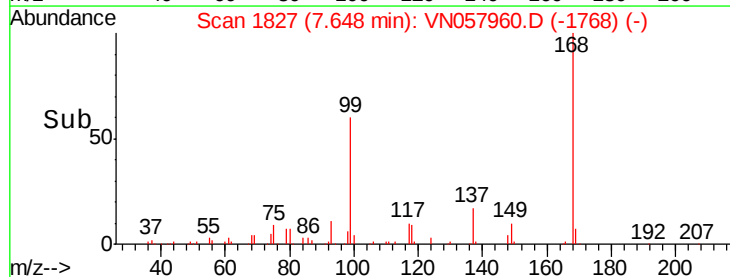
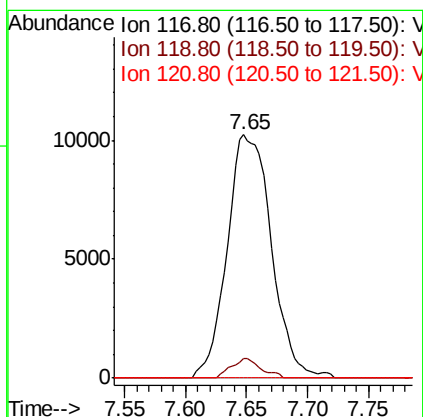
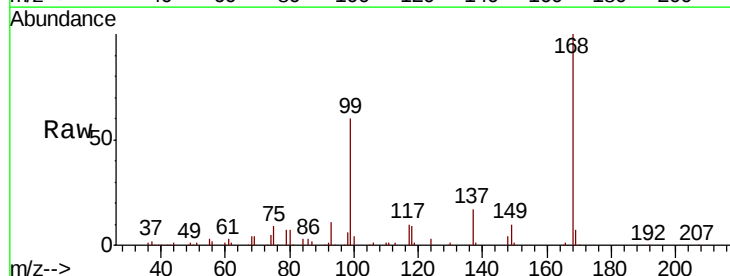
Instrument :
 MSVOA_N
 ClientSampleId :
 PZ-3RE

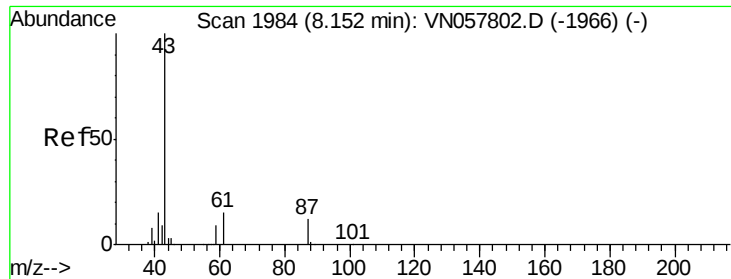
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	16.3	48.9#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.020 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.11 min
 Lab File: VN057960.D
 Acq: 12 Sep 2019 11:14

Tgt Ion	Ratio	Lower	Upper
117	100		
119	8.0	76.9	115.3#
121	0.0	23.4	35.2#





#43

Isopropyl Acetate

Concen: 0.301 ug/l

RT: 8.13 min Scan# 1978

Delta R.T. -0.02 min

Lab File: VN057960.D

Acq: 12 Sep 2019 11:14

Instrument :

MSVOA_N

ClientSampleId :

PZ-3RE

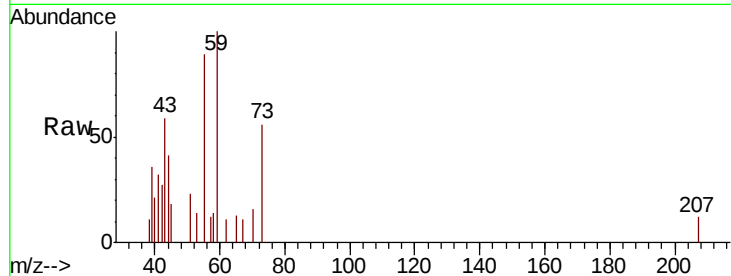
Tgt Ion: 43 Resp: 2447

Ion Ratio Lower Upper

43 100

61 0.0 20.1 30.1#

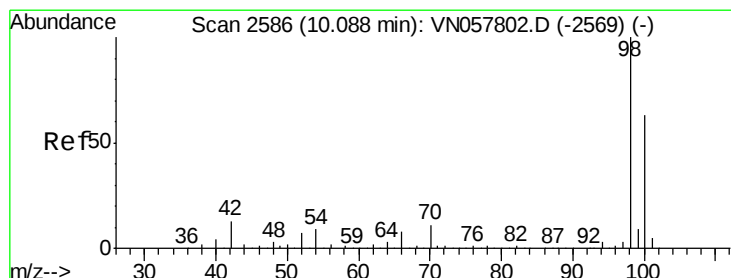
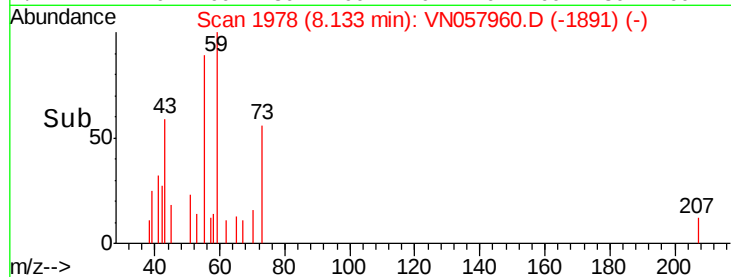
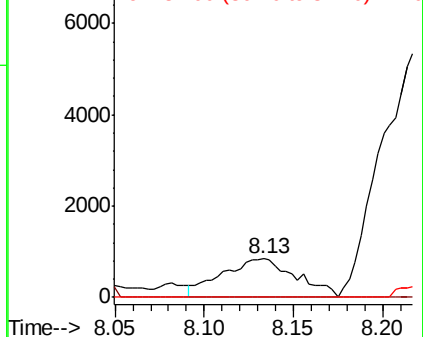
87 0.0 9.5 14.3#



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) (-)



#50

Toluene-d8

Concen: 24.611 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057960.D

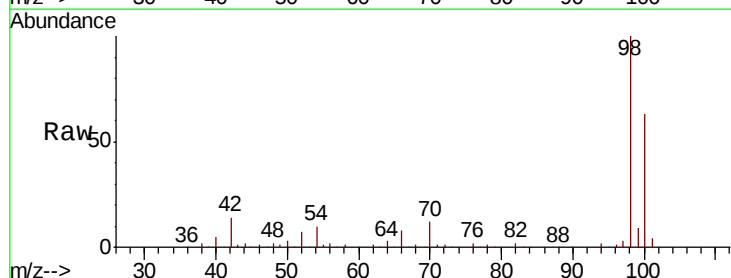
Acq: 12 Sep 2019 11:14

Tgt Ion: 98 Resp: 355533

Ion Ratio Lower Upper

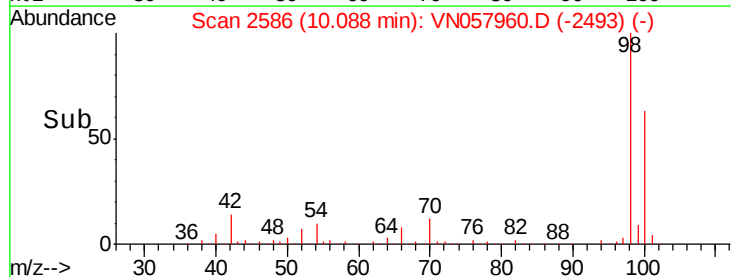
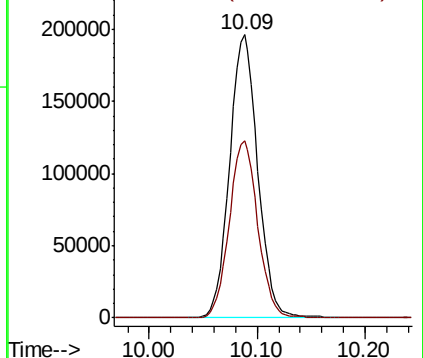
98 100

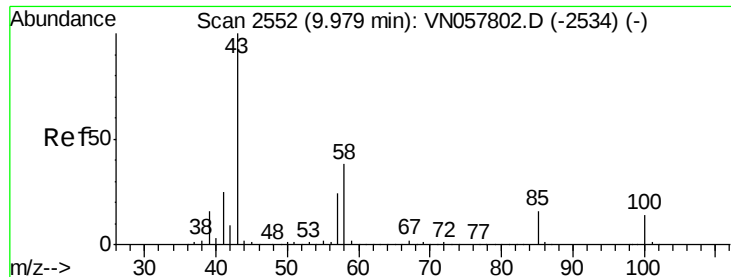
100 63.3 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN057802.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN057802.D (-2569) (-)





#51

4-Methyl-2-Pentanone

Concen: 0.273 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.01 min

Lab File: VN057960.D

Acq: 12 Sep 2019 11:14

Instrument :

MSVOA_N

ClientSampleId :

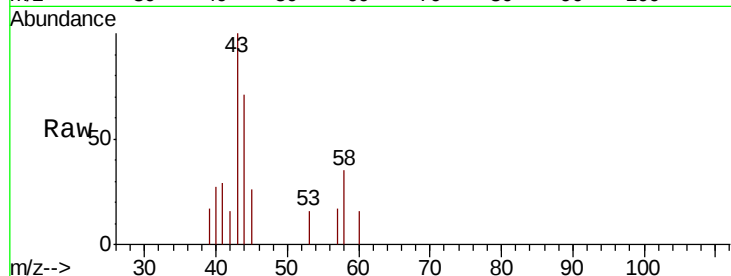
PZ-3RE

Tgt Ion: 43 Resp: 1314

Ion Ratio Lower Upper

43 100

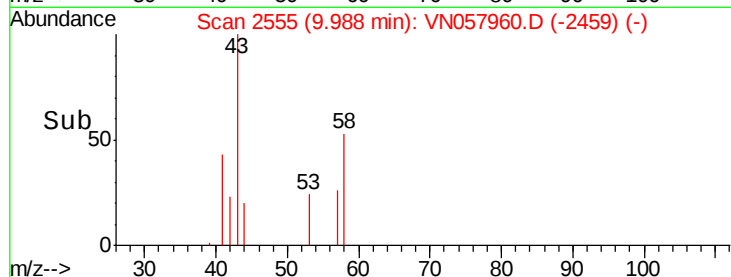
58 34.6 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN057802.D (-2534) (-)

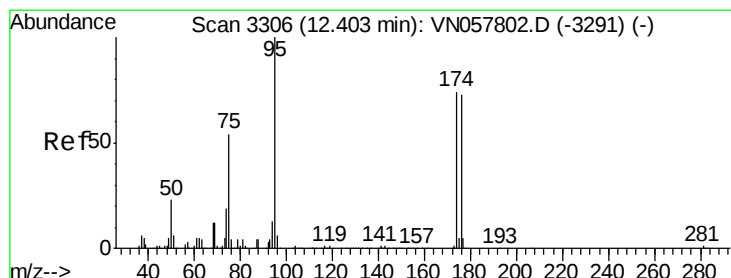
Time-->



Abundance Ion 43.00 (42.70 to 43.70): VN057960.D (-2459) (-)

Ion 58.00 (57.70 to 58.70): VN057960.D (-2459) (-)

Time-->



#62

4-Bromofluorobenzene

Concen: 36.594 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN057960.D

Acq: 12 Sep 2019 11:14

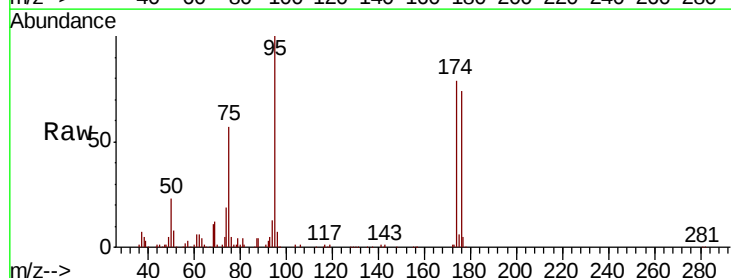
Tgt Ion: 95 Resp: 201462

Ion Ratio Lower Upper

95 100

174 76.3 0.0 150.2

176 72.0 0.0 146.0

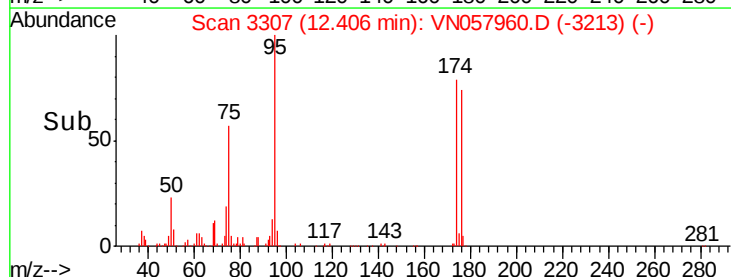


Abundance Ion 94.90 (94.60 to 95.60): VN057802.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN057802.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN057802.D (-3291) (-)

Time-->

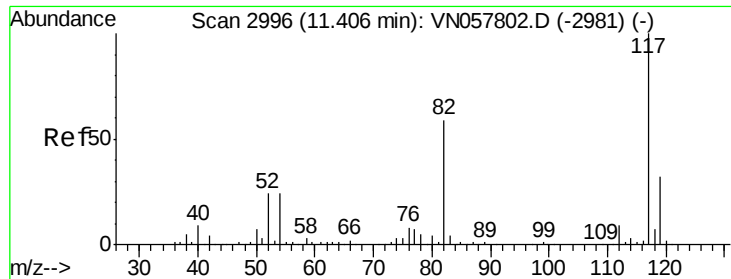


Abundance Ion 94.90 (94.60 to 95.60): VN057960.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN057960.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN057960.D (-3213) (-)

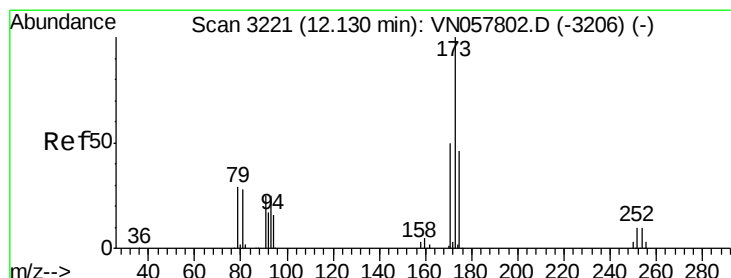
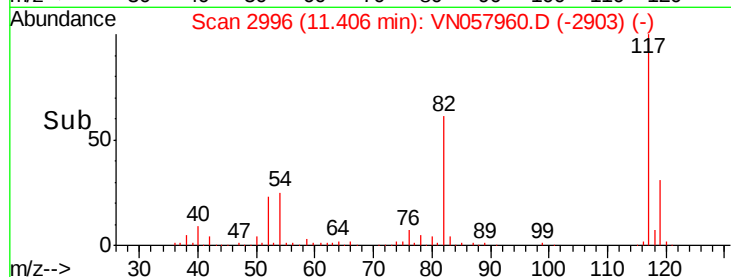
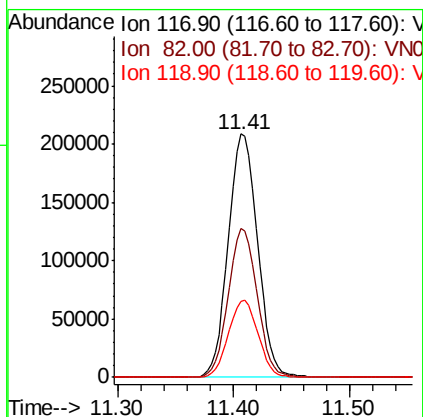
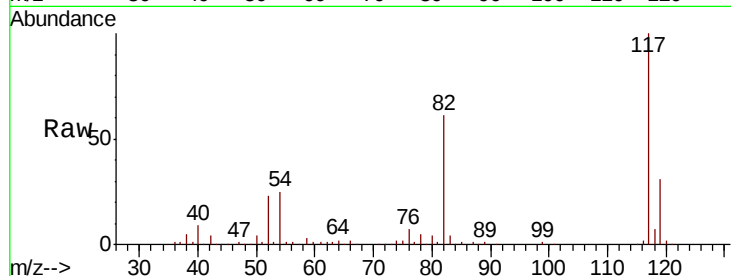
Time-->



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057960.D
Acq: 12 Sep 2019 11:14

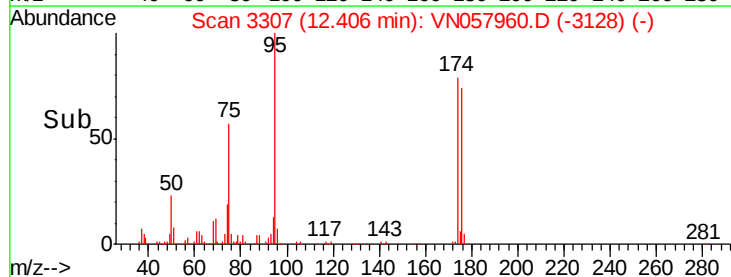
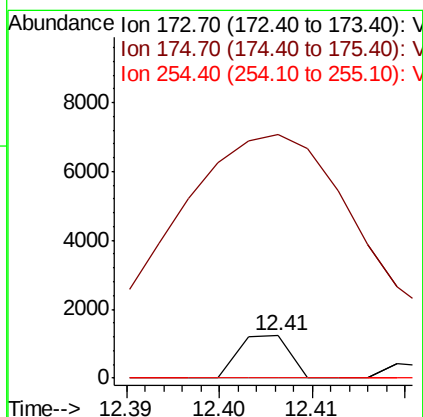
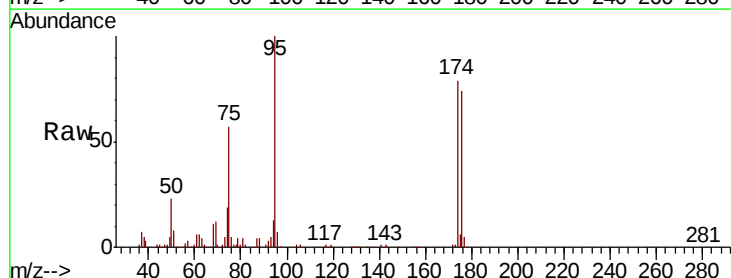
Instrument :
MSVOA_N
ClientSampled :
PZ-3RE

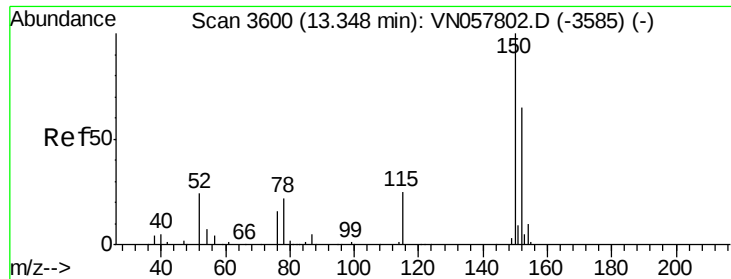
Tgt Ion:117 Resp: 364677
Ion Ratio Lower Upper
117 100
82 61.0 47.2 70.8
119 31.3 25.3 37.9



#71
Bromoform
Concen: 0.227 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN057960.D
Acq: 12 Sep 2019 11:14

Tgt Ion:173 Resp: 469
Ion Ratio Lower Upper
173 100
175 2120.3 23.5 70.6#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057960.D

Acq: 12 Sep 2019 11:14

Instrument :

MSVOA_N

ClientSampleId :

PZ-3RE

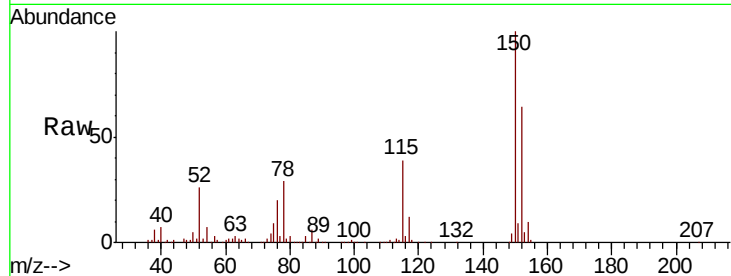
Tgt Ion:152 Resp: 193602

Ion Ratio Lower Upper

152 100

115 61.3 30.3 91.0

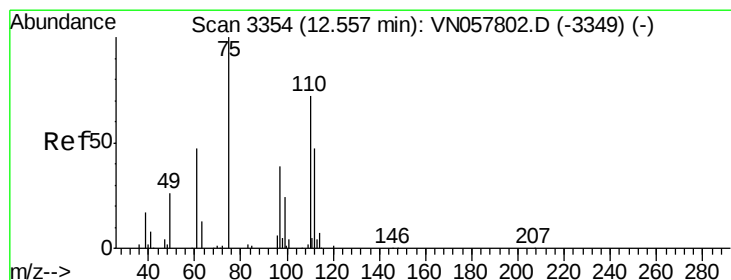
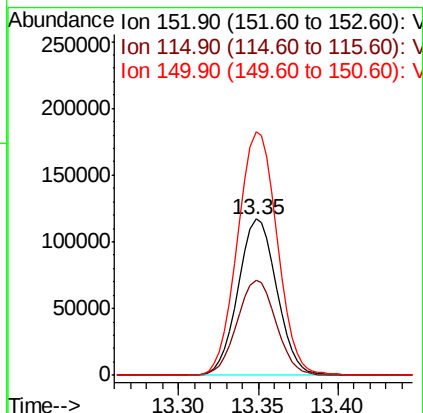
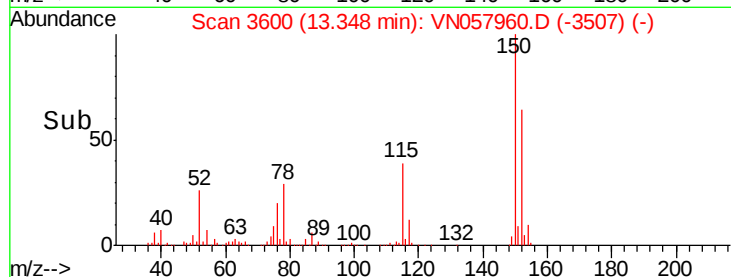
150 159.4 0.0 352.4



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



#76

1,2,3-Trichloropropane

Concen: 25.823 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057960.D

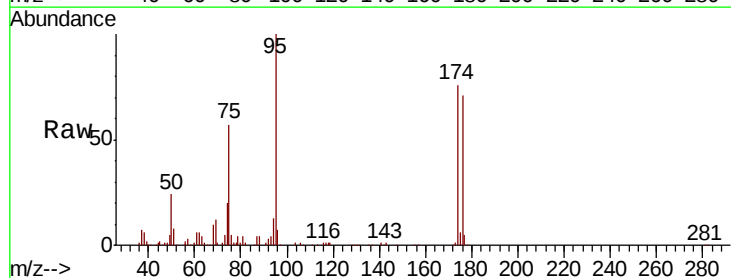
Acq: 12 Sep 2019 11:14

Tgt Ion: 75 Resp: 113094

Ion Ratio Lower Upper

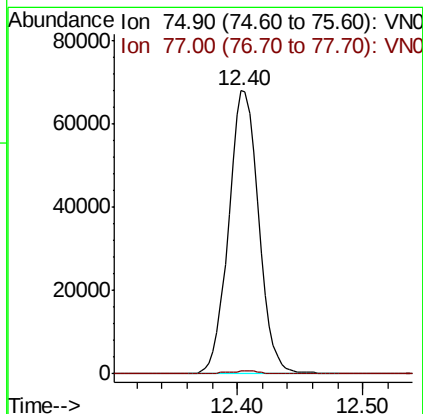
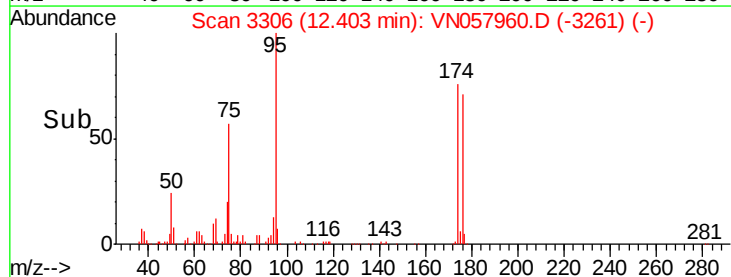
75 100

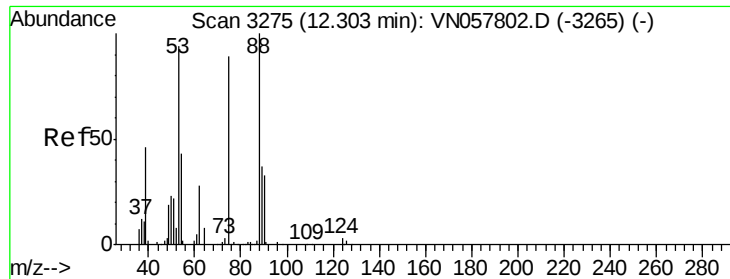
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 90.871 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057960.D

Acq: 12 Sep 2019 11:14

Instrument :

MSVOA_N

ClientSampled :

PZ-3RE

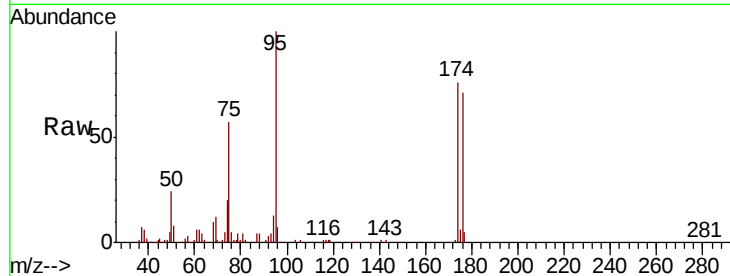
Tgt Ion: 75 Resp: 113094

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

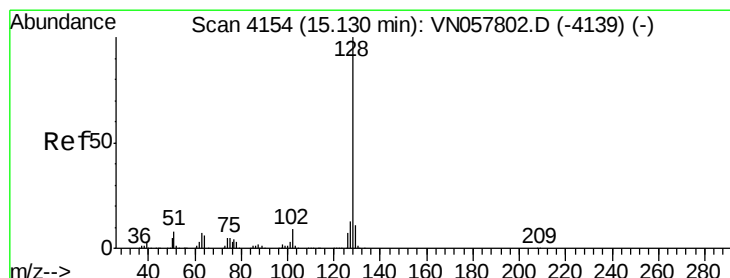
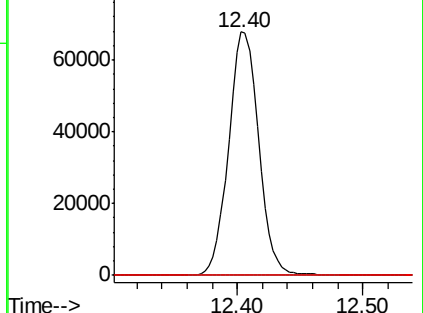
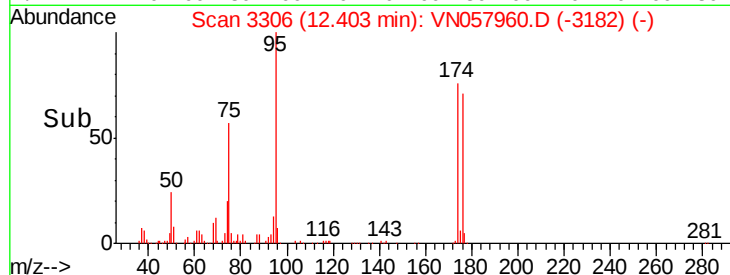
89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN057960.D (-3182) (-)

Ion 53.00 (52.70 to 53.70): VN057960.D (-3182) (-)

Ion 88.90 (88.60 to 89.60): VN057960.D (-3182) (-)



#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN057960.D

Acq: 12 Sep 2019 11:14

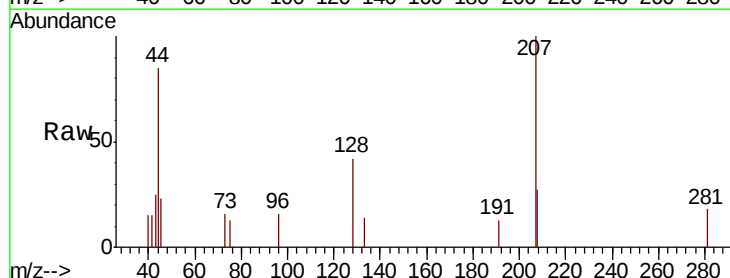
Tgt Ion: 128 Resp: 735

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VN057960.D (-4060) (-)

Ion 127.00 (126.70 to 127.70): VN057960.D (-4060) (-)

Ion 129.00 (128.70 to 129.70): VN057960.D (-4060) (-)

