

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091019\
 Data File : VN057857.D
 Acq On : 10 Sep 2019 13:07
 Operator : JC/SP
 Sample : K4622-37
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 63 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 10 13:44:16 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	272638	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	476912	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	435258	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	221299	50.00	ug/l	0.00

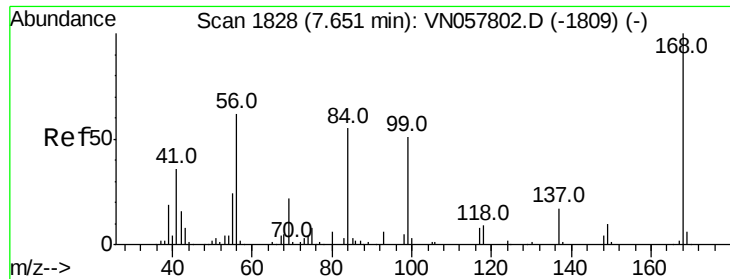
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	307035	55.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.20%	
35) Dibromofluoromethane	7.58	113	207059	47.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.08%	
50) Toluene-d8	10.09	98	824540	48.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.50%	
62) 4-Bromofluorobenzene	12.40	95	273547	42.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.00%	

Target Compounds

					Qvalue
5) Bromomethane	2.54	94	120	Below Cal	# 2
16) Acetone	3.81	43	19156	10.582	ug/l 97
18) Methyl Acetate	4.31	43	7377	1.528	ug/l # 87
20) Methylene Chloride	4.53	84	7465	0.959	ug/l 92
25) 2-Butanone	6.84	43	2731	1.042	ug/l 93
31) Cyclohexane	7.64	56	7149	Below Cal	# 33
36) 1,1-Dichloropropene	7.65	75	24427	4.416	ug/l # 48
38) Carbon Tetrachloride	7.65	117	28042	5.553	ug/l # 15
43) Isopropyl Acetate	8.16	43	99191	10.322	ug/l # 85
45) 1,2-Dichloropropane	9.26	63	1752	0.362	ug/l # 44
48) Methyl methacrylate	9.18	41	4935	1.012	ug/l # 13
51) 4-Methyl-2-Pentanone	9.98	43	6261	1.101	ug/l 94
54) cis-1,3-Dichloropropene	9.90	75	35233	5.183	ug/l # 69
56) Ethyl methacrylate	10.54	69	1604	0.240	ug/l # 1
57) 1,3-Dichloropropane	10.76	76	5751	0.751	ug/l # 43
59) 2-Hexanone	10.76	43	91192	21.394	ug/l # 54
74) N-amyl acetate	12.04	43	1700	0.227	ug/l # 48
76) 1,2,3-Trichloropropane	12.40	75	150553	30.074	ug/l # 100
81) trans-1,4-Dichloro-2-buten	12.40	75	150553	105.829	ug/l # 6
95) Naphthalene	15.14	128	471	Below Cal	# 69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057857.D

Acq: 10 Sep 2019 13:07

Instrument :

MSVOA_N

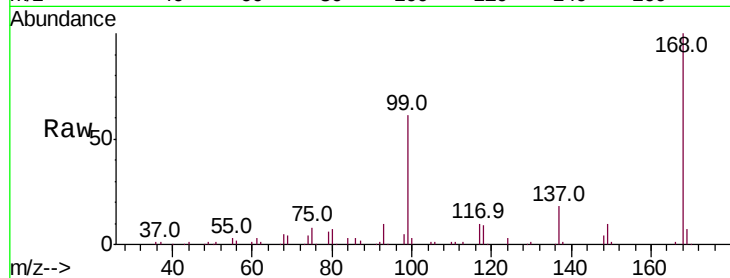
ClientSampled :

Tot Ion:168 Resp: 272638

Ion Ratio Lower Upper

168 100

99 61.1 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) (-)

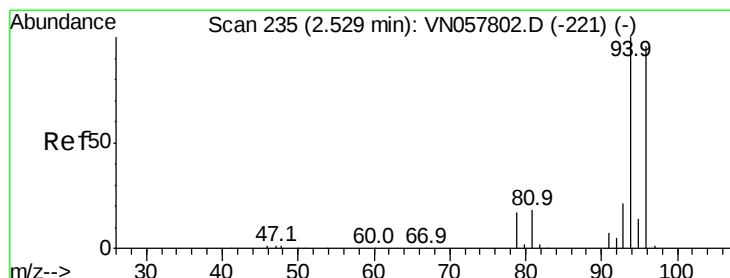
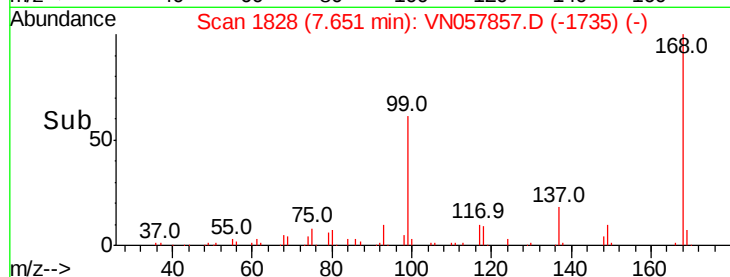
7.65

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 238

Delta R.T. 0.01 min

Lab File: VN057857.D

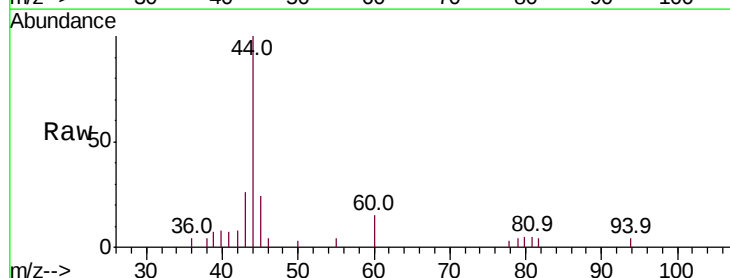
Acq: 10 Sep 2019 13:07

Tgt Ion: 94 Resp: 120

Ion Ratio Lower Upper

94 100

96 0.0 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) (-)

2.54

300

250

200

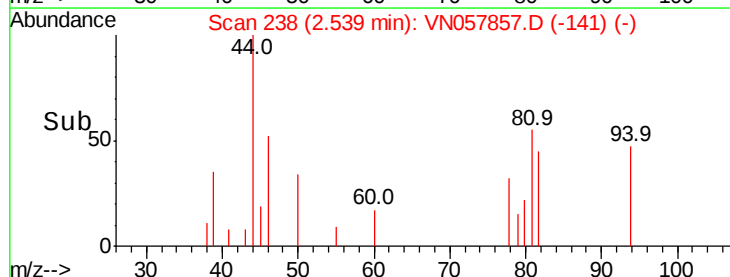
150

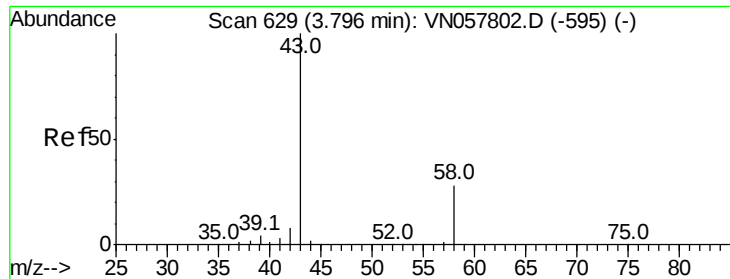
100

50

0

Time-->





#16

Acetone

Concen: 10.582 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.01 min

Lab File: VN057857.D

Acq: 10 Sep 2019 13:07

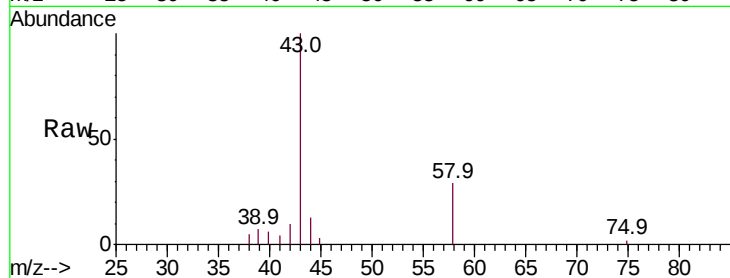
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 19156

Ion Ratio Lower Upper

43 100

58 29.3 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-595) (-)

Ion 58.00 (57.70 to 58.70): VN057802.D (-595) (-)

8000

6000

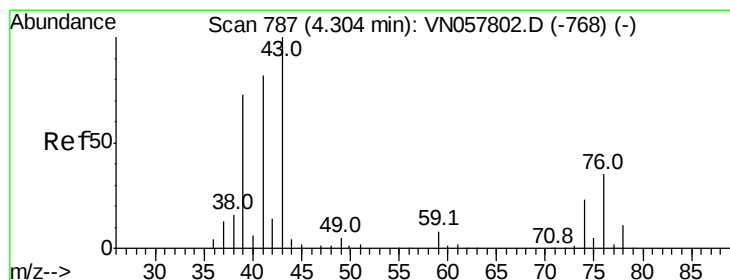
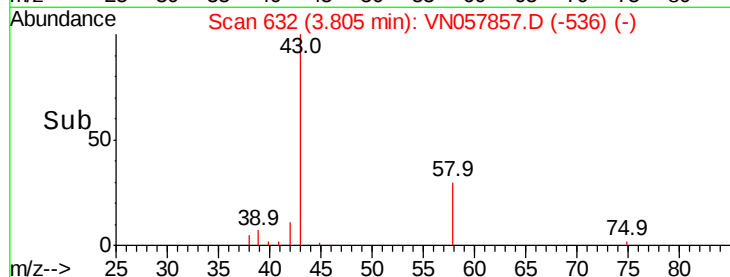
4000

2000

0

3.70 3.80 3.90

Time-->



#18

Methyl Acetate

Concen: 1.528 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.01 min

Lab File: VN057857.D

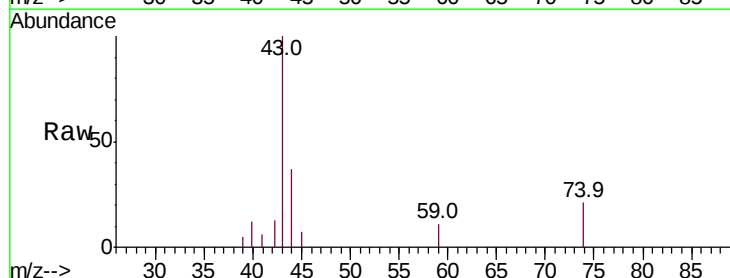
Acq: 10 Sep 2019 13:07

Tgt Ion: 43 Resp: 7377

Ion Ratio Lower Upper

43 100

74 28.9 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-768) (-)

Ion 74.00 (73.70 to 74.70): VN057802.D (-768) (-)

4000

3000

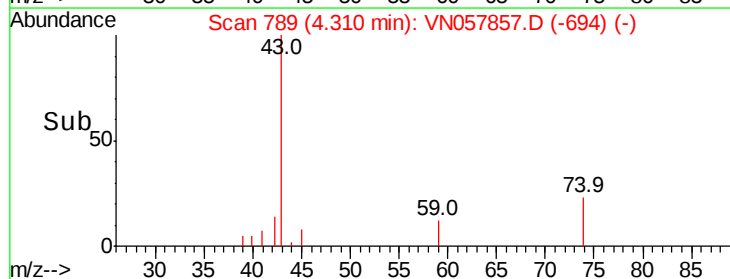
2000

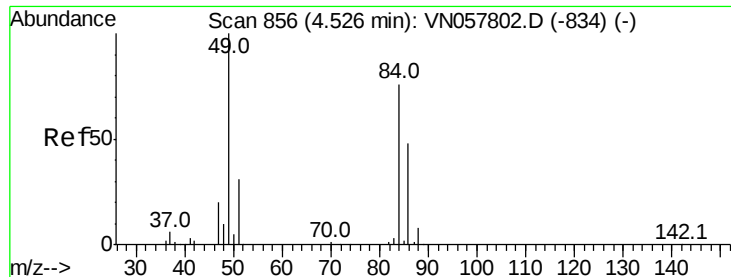
1000

0

4.25 4.30 4.35

Time-->

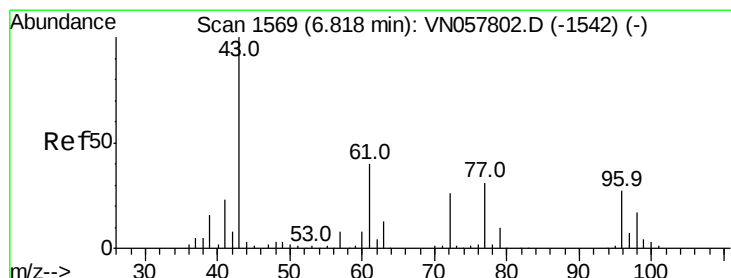
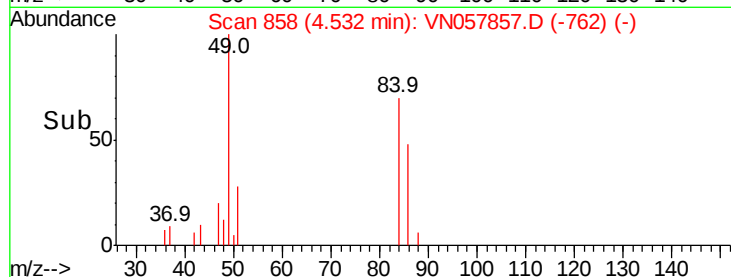
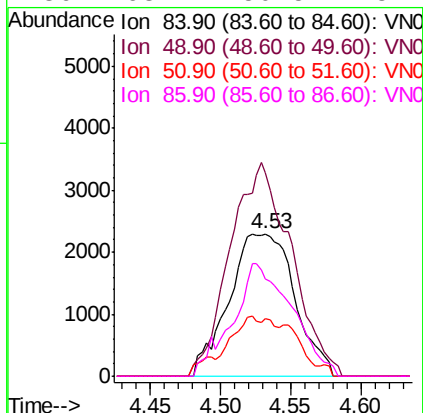
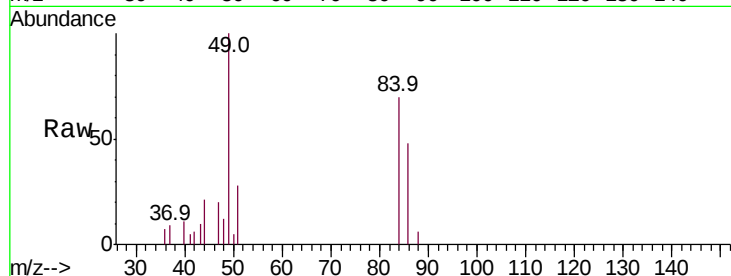




#20
Methylene Chloride
Concen: 0.959 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN057857.D
Acq: 10 Sep 2019 13:07

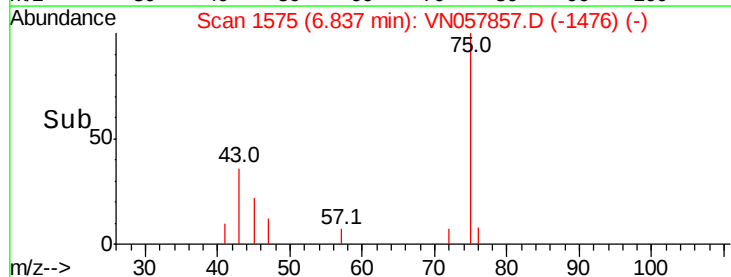
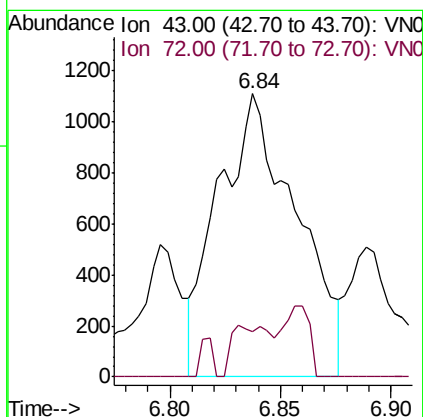
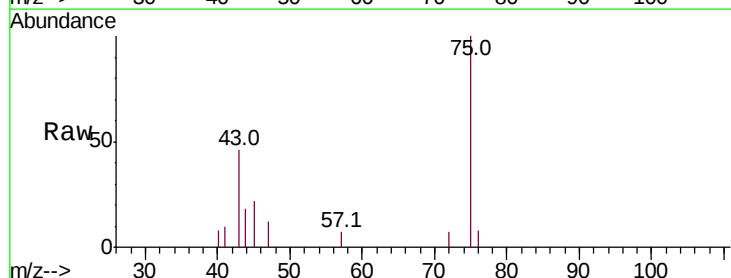
Instrument :
MSVOA_N
ClientSampled :

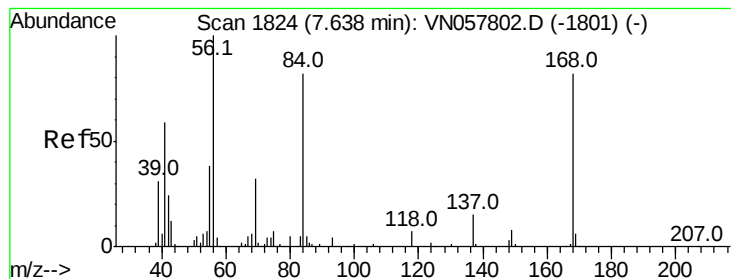
Tot Ion:	84	Resp:	7465
Ion	Ratio	Lower	Upper
84	100		
49	142.7	104.8	157.2
51	40.2	33.0	49.4
86	68.1	50.5	75.7



#25
2-Butanone
Concen: 1.042 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.02 min
Lab File: VN057857.D
Acq: 10 Sep 2019 13:07

Tgt Ion:	43	Resp:	2731
Ion	Ratio	Lower	Upper
43	100		
72	22.1	20.6	30.8





#31

Cyclohexane

Concen: Below Cal

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

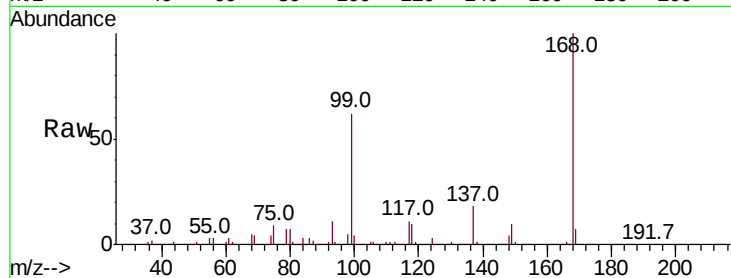
Lab File: VN057857.D

Acq: 10 Sep 2019 13:07

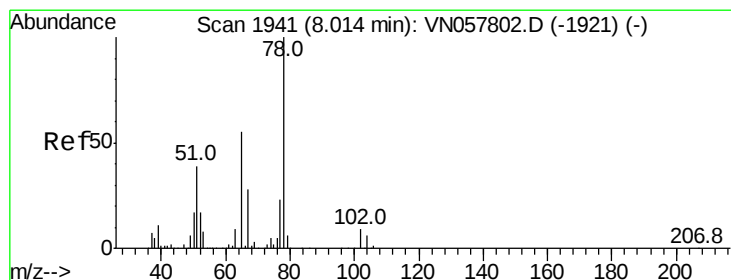
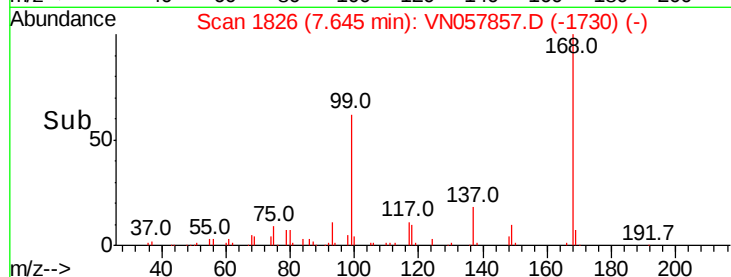
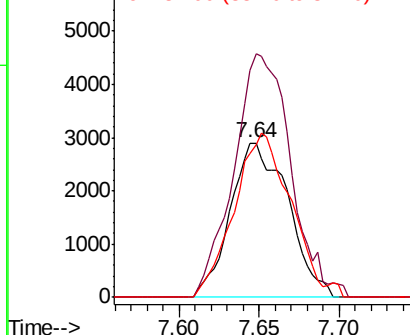
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 7149

Ion	Ratio	Lower	Upper
56	100		
69	147.0	25.9	38.9#
84	93.4	65.6	98.4



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 55.601 ug/l

RT: 8.01 min Scan# 1941

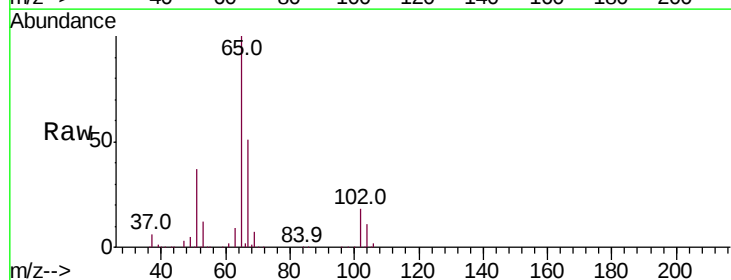
Delta R.T. 0.00 min

Lab File: VN057857.D

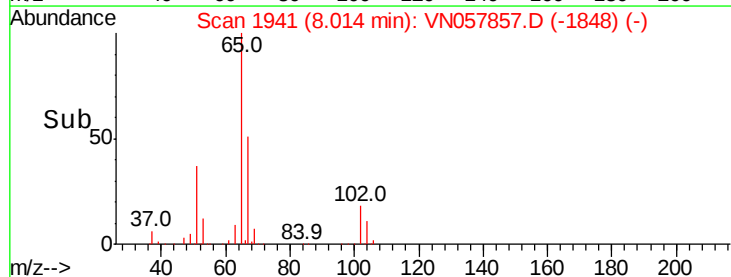
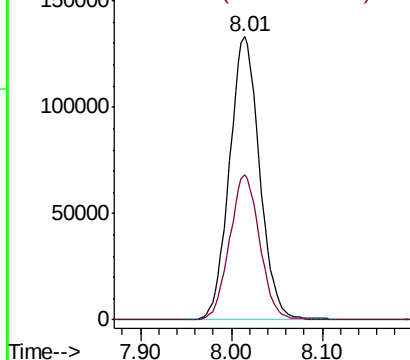
Acq: 10 Sep 2019 13:07

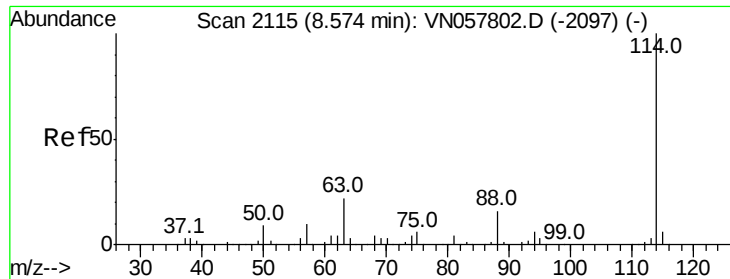
Tgt Ion: 65 Resp: 307035

Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	104.0



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

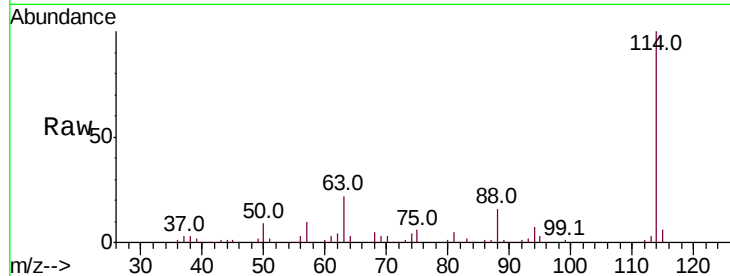




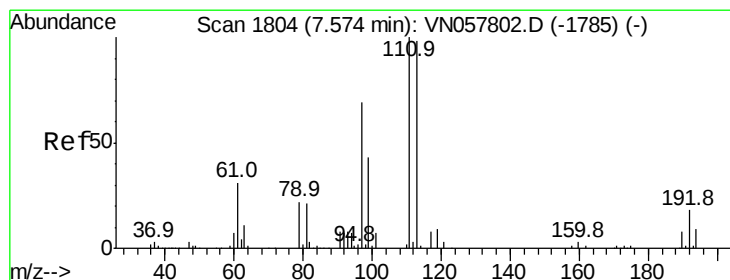
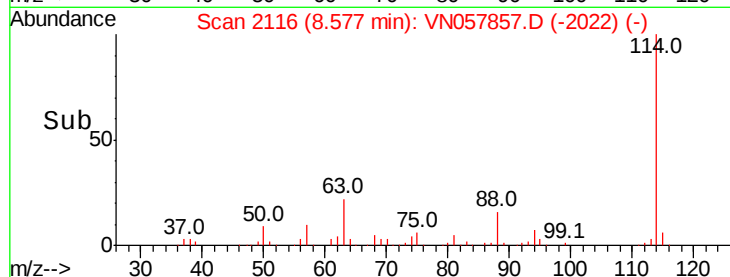
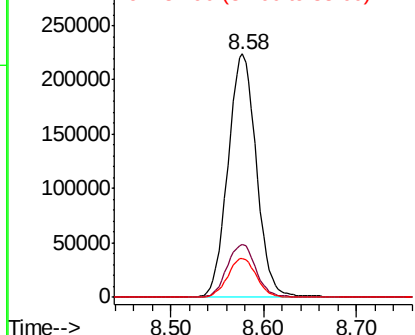
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057857.D
 Acq: 10 Sep 2019 13:07

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 476912
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 44.0
 88 16.1 0.0 31.4

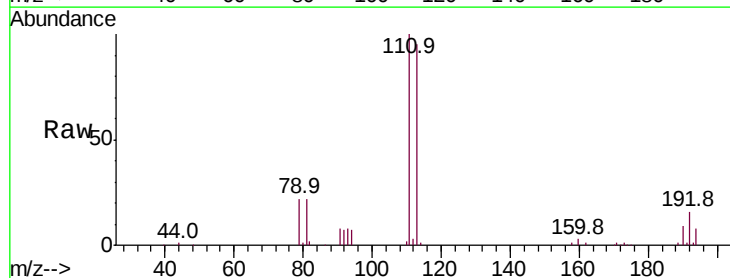


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

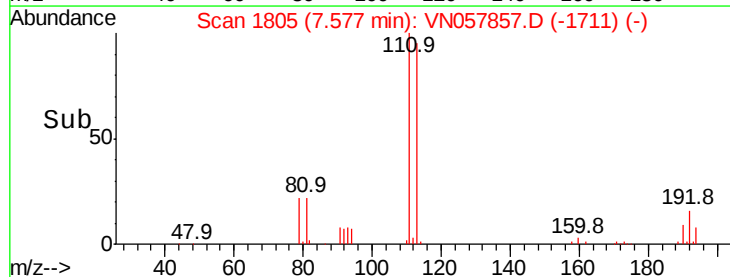
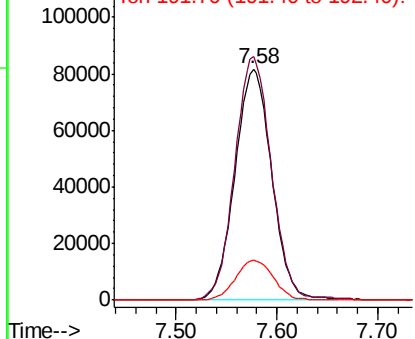


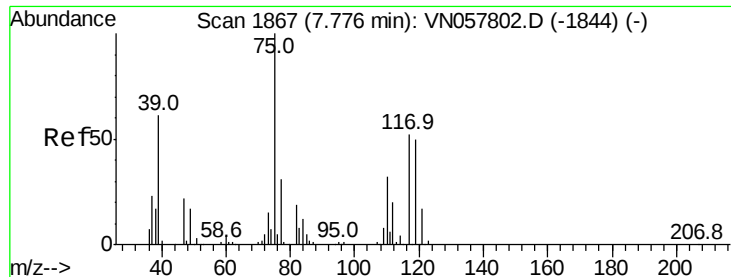
#35
 Dibromofluoromethane
 Concen: 47.041 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057857.D
 Acq: 10 Sep 2019 13:07

Tgt Ion:113 Resp: 207059
 Ion Ratio Lower Upper
 113 100
 111 105.2 81.3 121.9
 192 17.7 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: 4.416 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN057857.D

Acq: 10 Sep 2019 13:07

Instrument :

MSVOA_N

ClientSampleId :

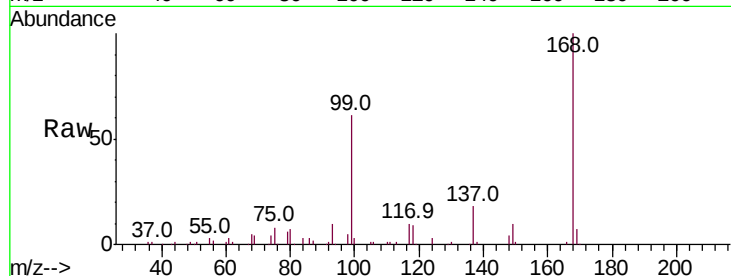
Tot Ion: 75 Resp: 24427

Ion Ratio Lower Upper

75 100

110 5.4 16.3 48.9#

77 0.0 25.0 37.4#

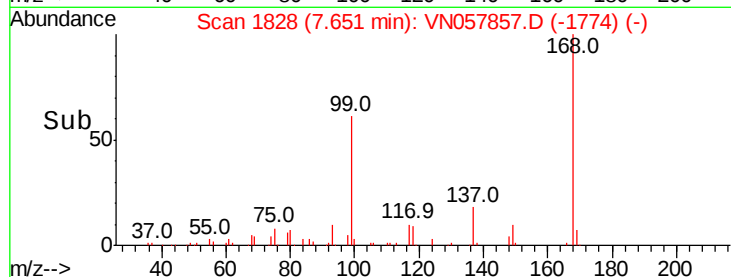


Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-1844) (-)

Ion 109.90 (109.60 to 110.60): VN057802.D (-1844) (-)

Ion 76.90 (76.60 to 77.60): VN057802.D (-1844) (-)

Time-->

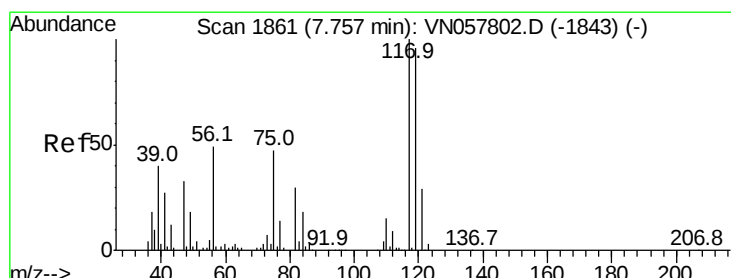


Abundance Ion 74.90 (74.60 to 75.60): VN057857.D (-1774) (-)

Ion 109.90 (109.60 to 110.60): VN057857.D (-1774) (-)

Ion 76.90 (76.60 to 77.60): VN057857.D (-1774) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 5.553 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.10 min

Lab File: VN057857.D

Acq: 10 Sep 2019 13:07

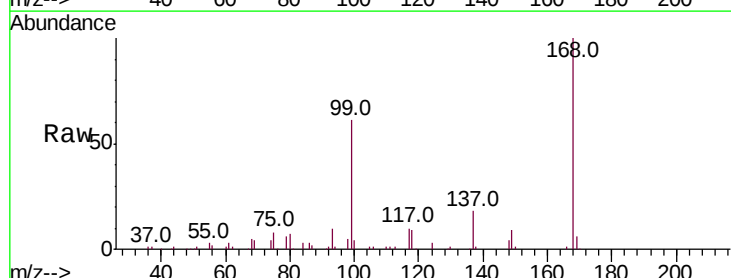
Tgt Ion: 117 Resp: 28042

Ion Ratio Lower Upper

117 100

119 3.7 76.9 115.3#

121 0.0 23.4 35.2#

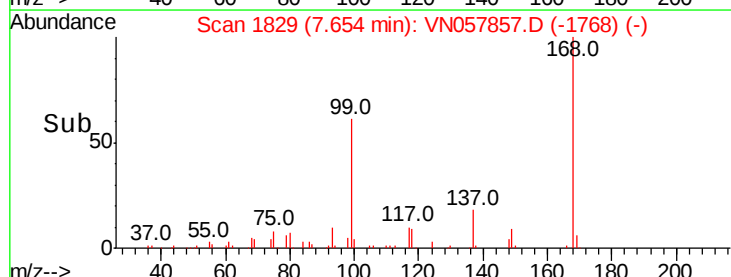


Abundance Ion 116.80 (116.50 to 117.50): VN057802.D (-1843) (-)

Ion 118.80 (118.50 to 119.50): VN057802.D (-1843) (-)

Ion 120.80 (120.50 to 121.50): VN057802.D (-1843) (-)

Time-->

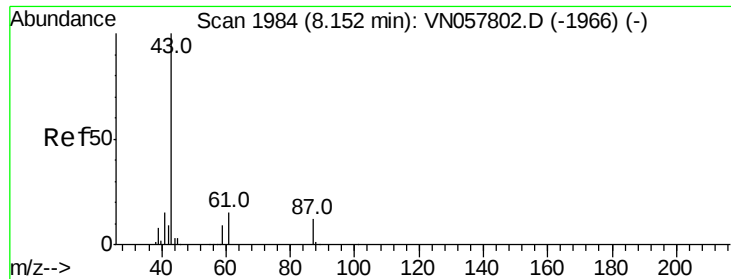


Abundance Ion 116.80 (116.50 to 117.50): VN057857.D (-1768) (-)

Ion 118.80 (118.50 to 119.50): VN057857.D (-1768) (-)

Ion 120.80 (120.50 to 121.50): VN057857.D (-1768) (-)

Time-->

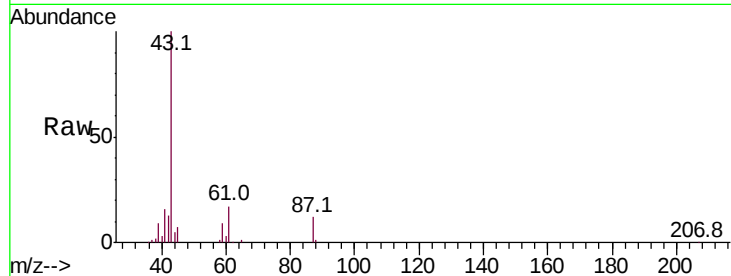


#43

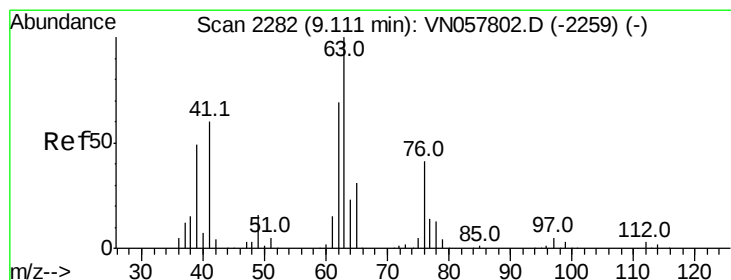
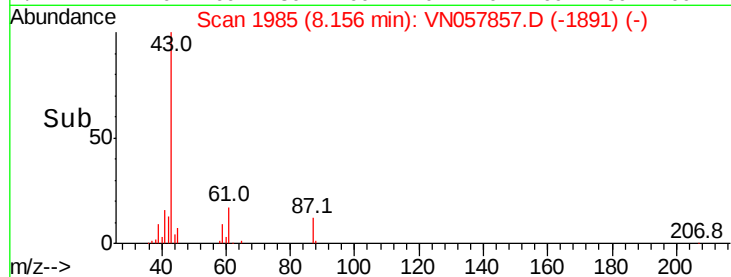
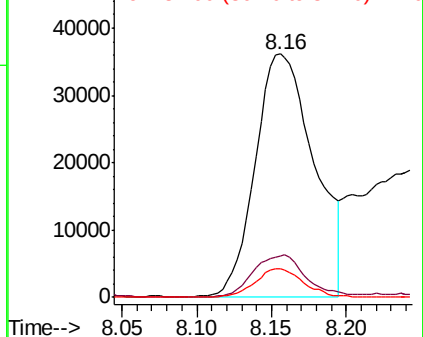
Isopropyl Acetate
 Concen: 10.322 ug/l
 RT: 8.16 min Scan# 1985
 Delta R.T. 0.00 min
 Lab File: VN057857.D
 Acq: 10 Sep 2019 13:07

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	43	Resp	99191
Ion Ratio	100		
Lower	20.1		
Upper	30.1#		
61	15.5		
87	9.6		
	9.5		
	14.3		



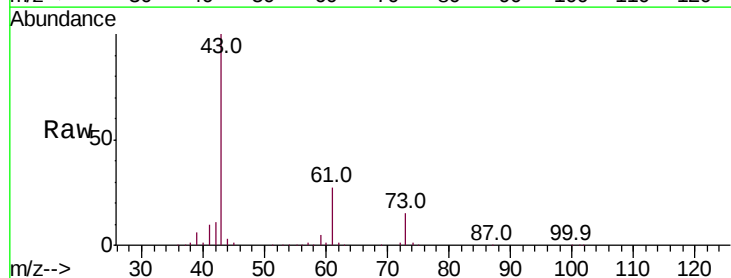
Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-1966) (-)



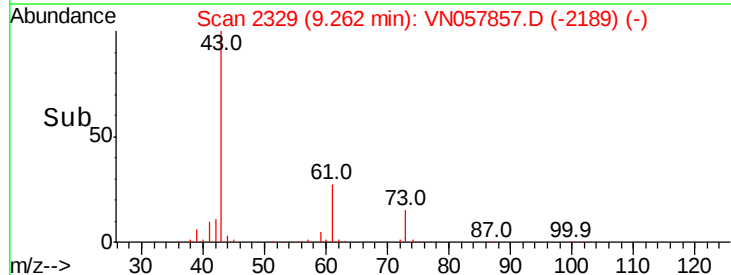
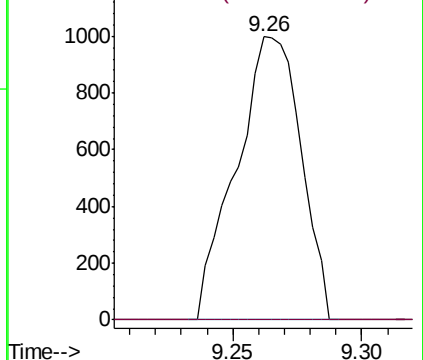
#45

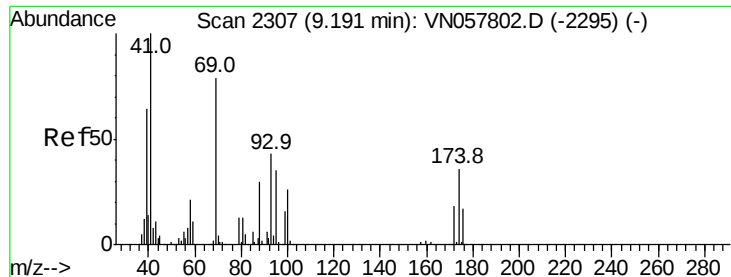
1,2-Dichloropropane
 Concen: 0.362 ug/l
 RT: 9.26 min Scan# 2329
 Delta R.T. 0.15 min
 Lab File: VN057857.D
 Acq: 10 Sep 2019 13:07

Tgt Ion	63	Resp	1752
Ion Ratio	100		
Lower	24.8		
Upper	37.2#		
65	0.0		



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

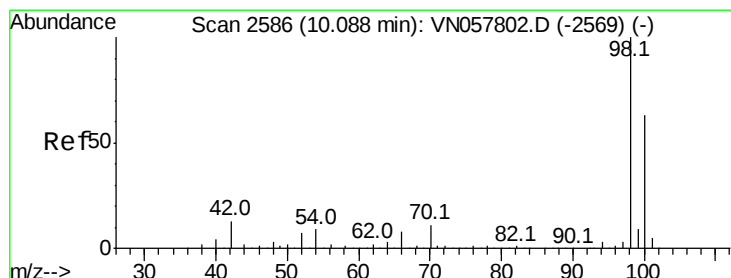
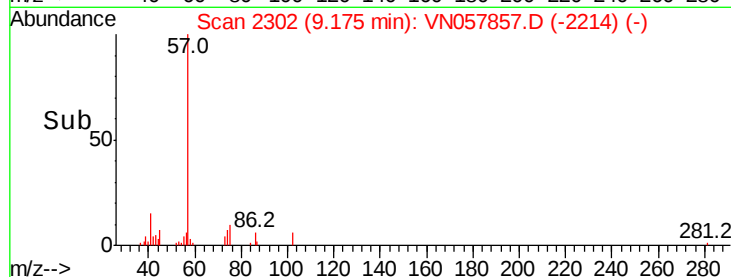
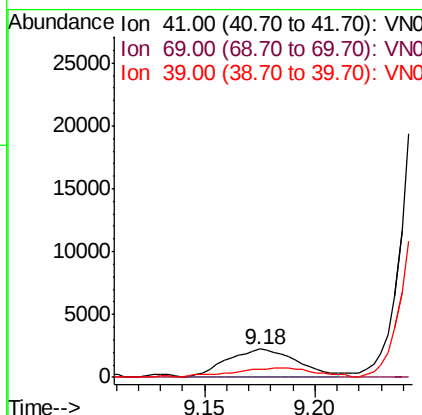
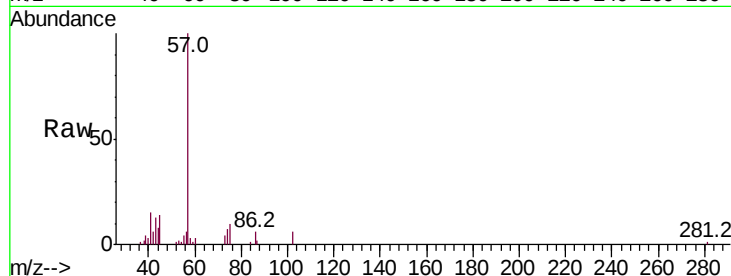




#48
Methvl methacrylate
Concen: 1.012 ug/l
RT: 9.18 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN057857.D
Acq: 10 Sep 2019 13:07

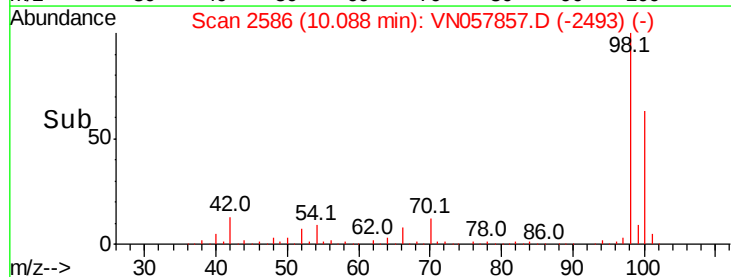
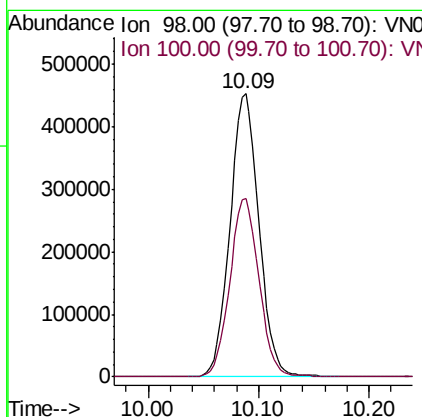
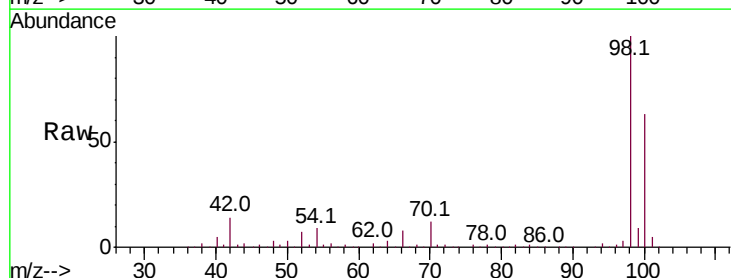
Instrument :
MSVOA_N
ClientSampled :

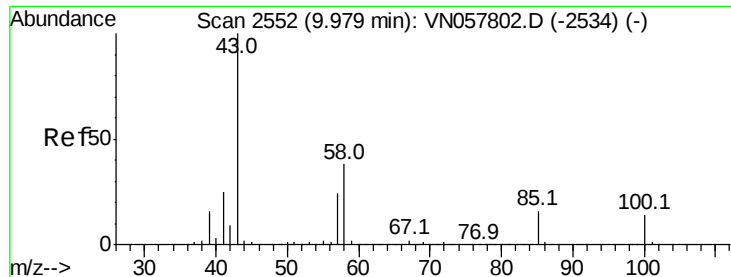
Tot Ion: 41 Resp: 4935
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#



#50
Toluene-d8
Concen: 48.247 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN057857.D
Acq: 10 Sep 2019 13:07

Tgt Ion: 98 Resp: 824540
Ion Ratio Lower Upper
98 100
100 63.4 50.3 75.5





#51

4-Methyl-2-Pentanone

Concen: 1.101 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN057857.D

Acq: 10 Sep 2019 13:07

Instrument :

MSVOA_N

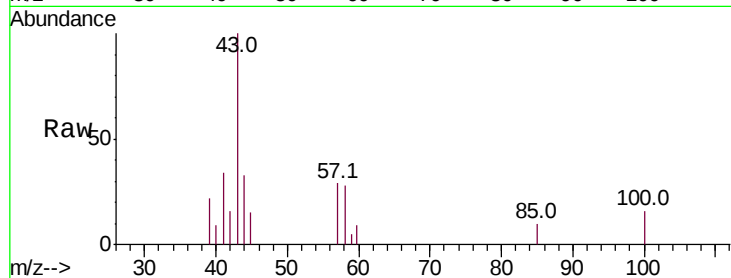
ClientSampleId :

Tot Ion: 43 Resp: 6261

Ion Ratio Lower Upper

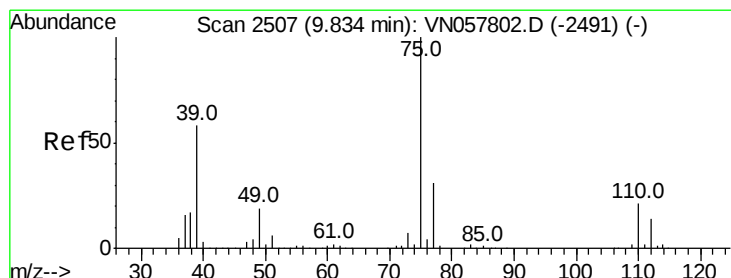
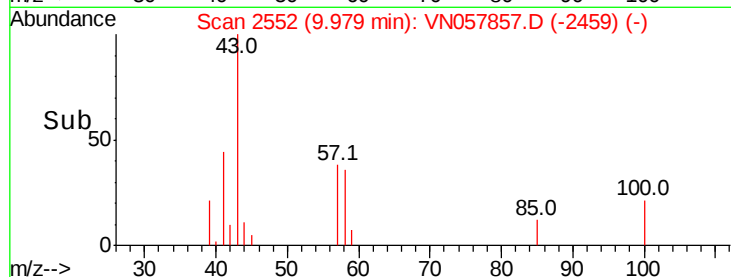
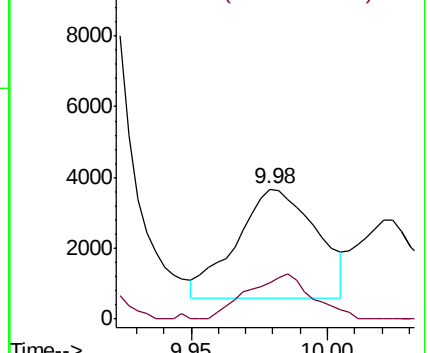
43 100

58 33.4 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: 5.183 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057857.D

Acq: 10 Sep 2019 13:07

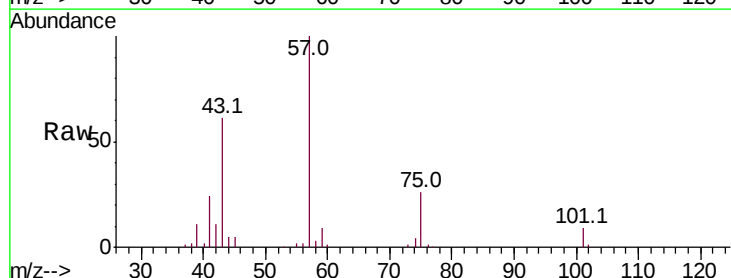
Tgt Ion: 75 Resp: 35233

Ion Ratio Lower Upper

75 100

77 0.8 24.8 37.2#

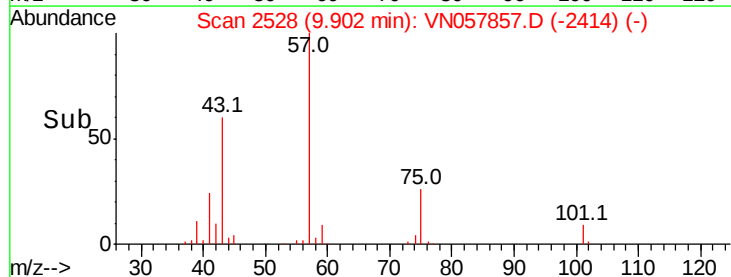
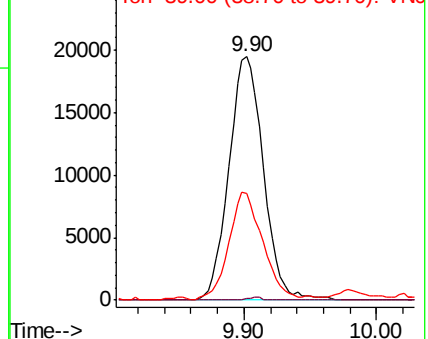
39 44.0 46.2 69.4#

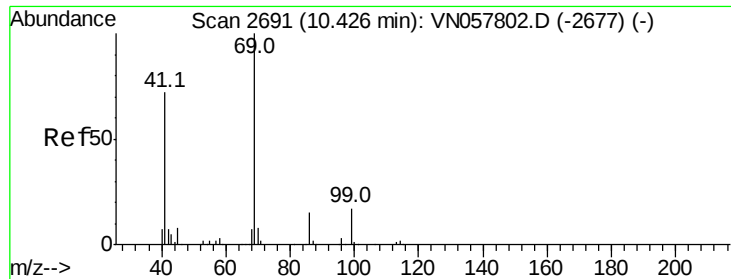


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.240 ug/l

RT: 10.54 min Scan# 2726

Delta R.T. 0.11 min

Lab File: VN057857.D

Acq: 10 Sep 2019 13:07

Instrument :

MSVOA_N

ClientSampleId :

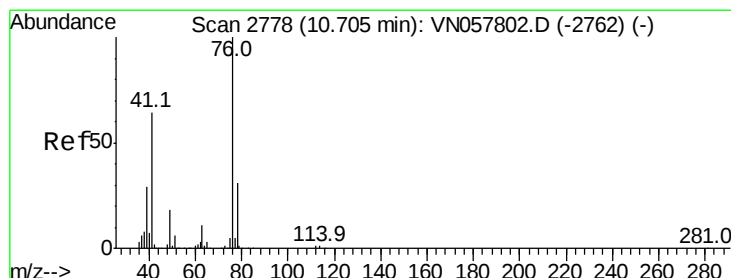
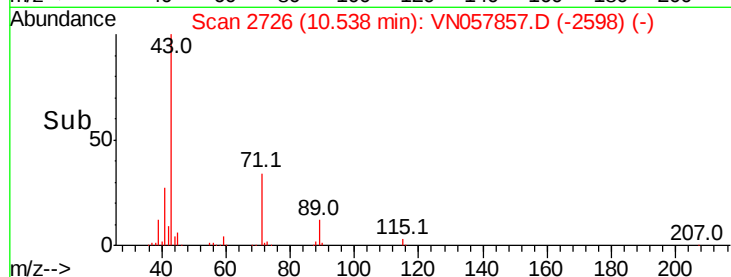
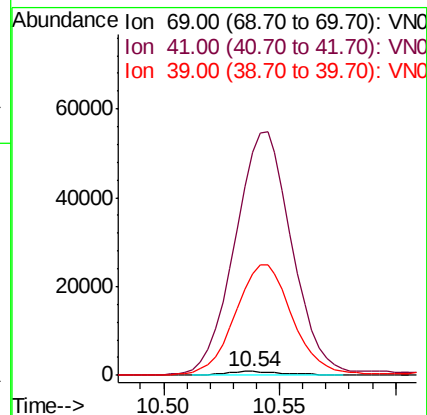
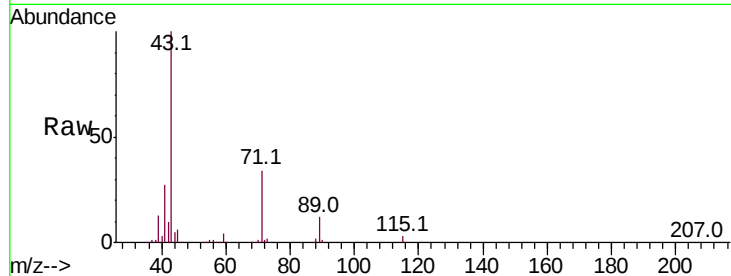
Tot Ion: 69 Resp: 1604

Ion Ratio Lower Upper

69 100

41 5914.5 56.7 85.1#

39 2682.6 36.3 54.5#



#57

1,3-Dichloropropane

Concen: 0.751 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN057857.D

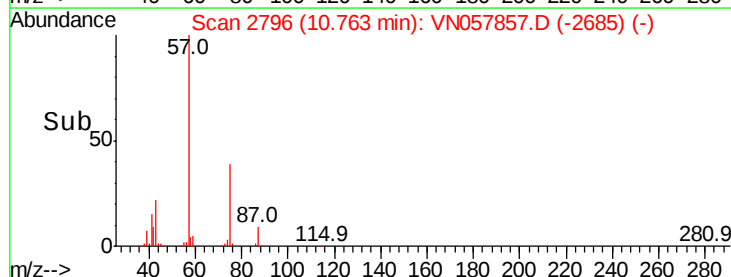
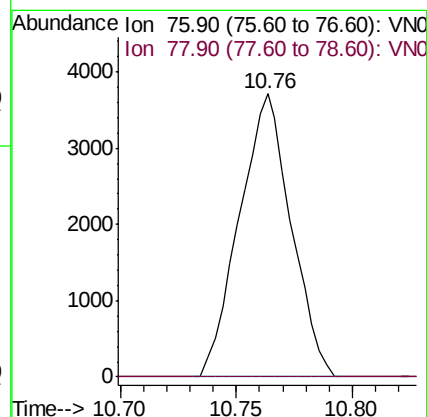
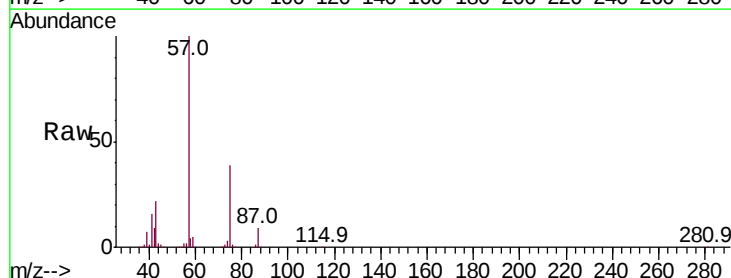
Acq: 10 Sep 2019 13:07

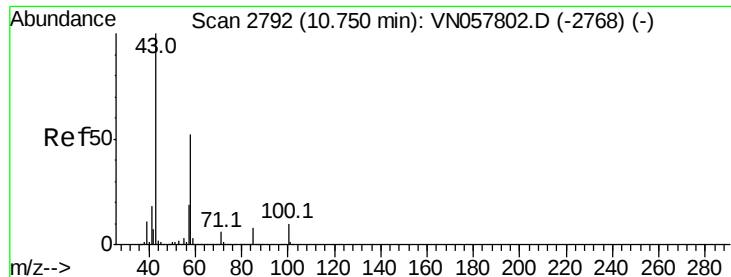
Tgt Ion: 76 Resp: 5751

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#

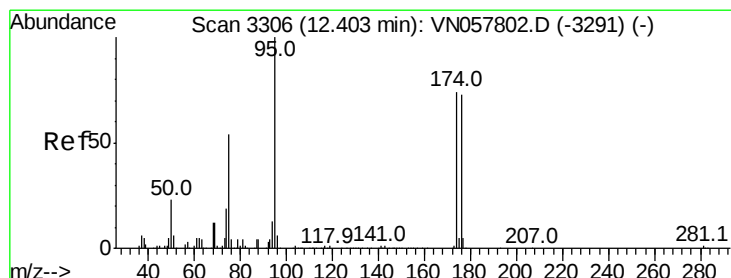
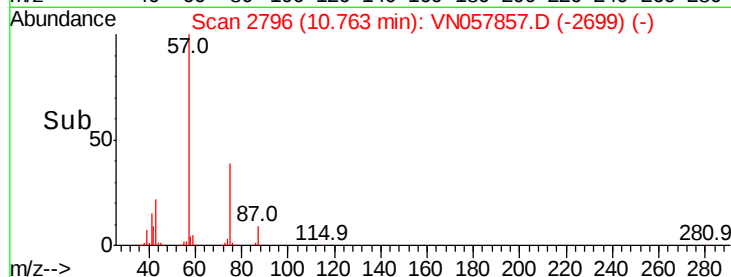
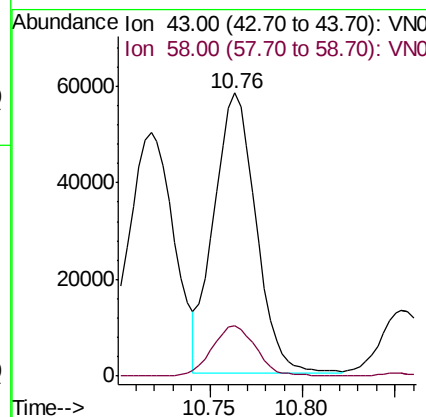
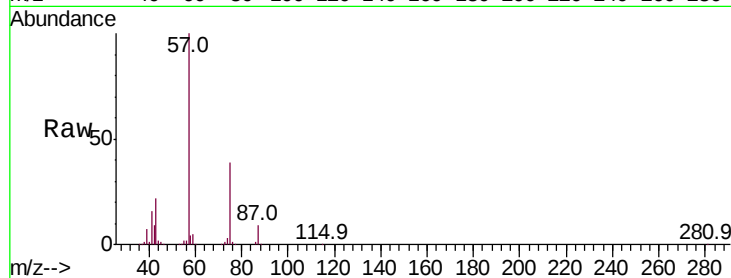




#59
2-Hexanone
Concen: 21.394 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN057857.D
Acq: 10 Sep 2019 13:07

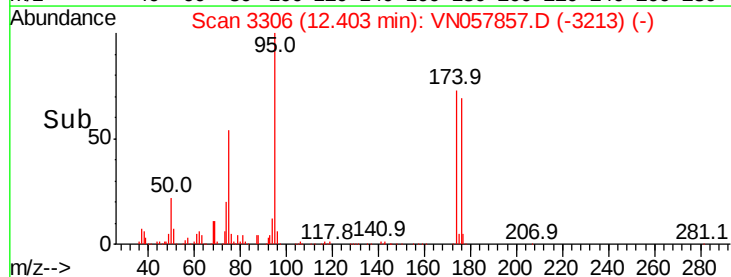
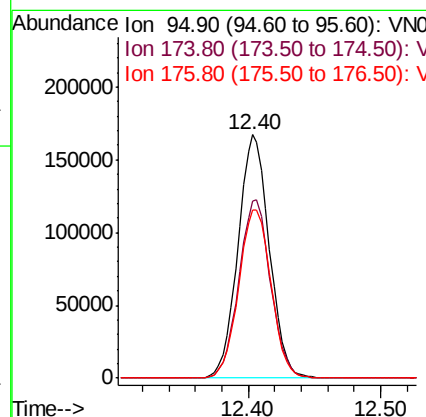
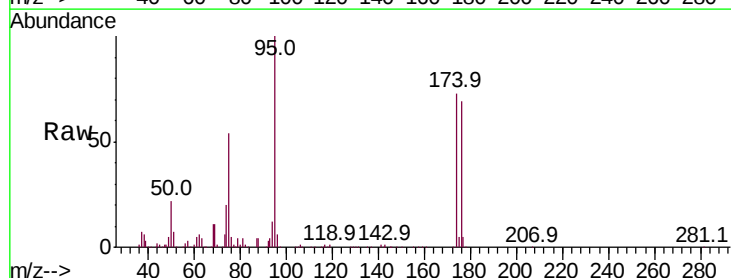
Instrument :
MSVOA_N
ClientSampleId :

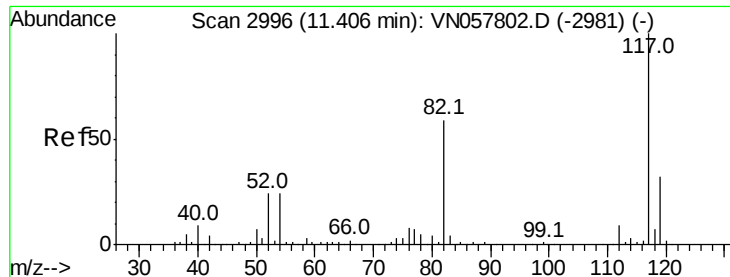
Tot Ion: 43 Resp: 91192
Ion Ratio Lower Upper
43 100
58 18.9 25.6 76.8#



#62
4-Bromofluorobenzene
Concen: 42.002 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057857.D
Acq: 10 Sep 2019 13:07

Tgt Ion: 95 Resp: 273547
Ion Ratio Lower Upper
95 100
174 74.1 0.0 150.2
176 71.7 0.0 146.0

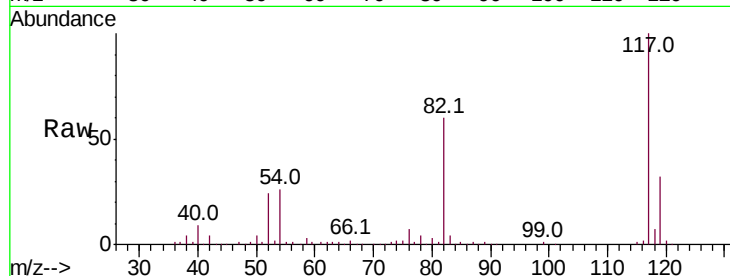




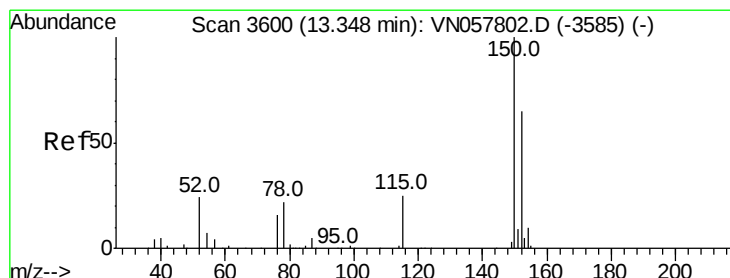
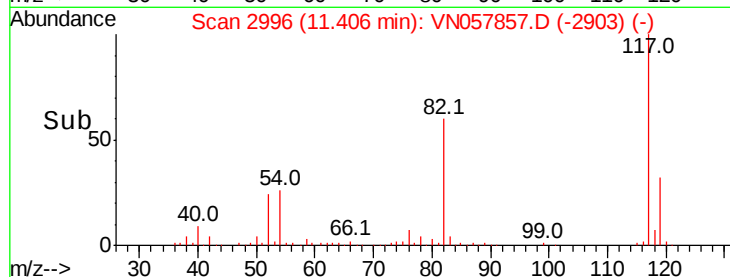
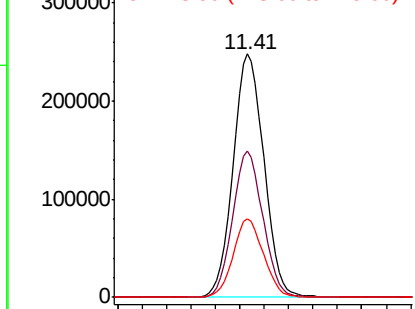
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057857.D
Acq: 10 Sep 2019 13:07

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	60.3	47.2	70.8
119	32.2	25.3	37.9

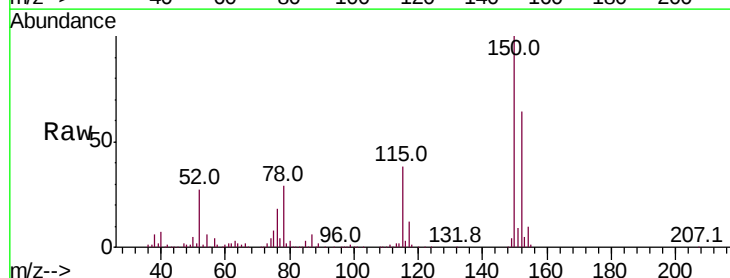


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

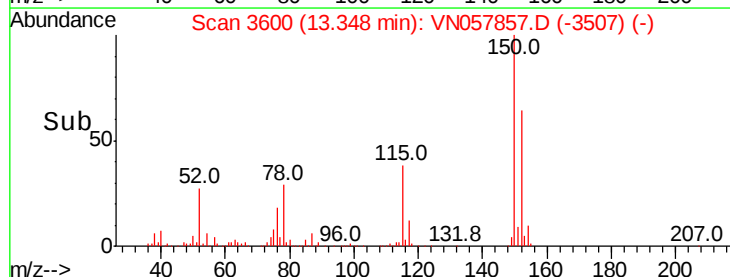
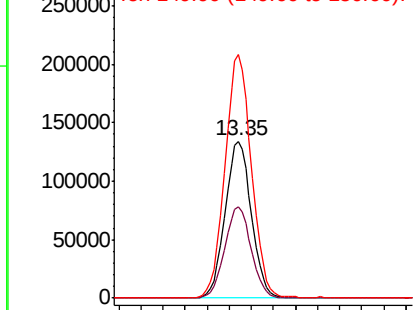


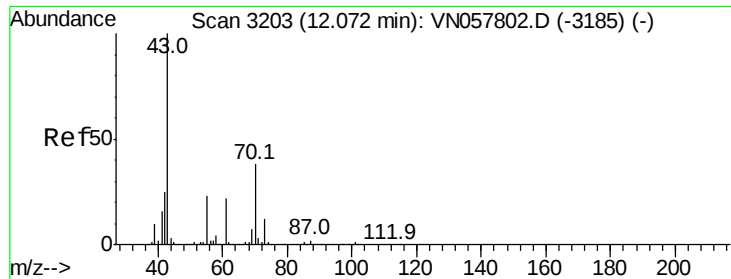
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN057857.D
Acq: 10 Sep 2019 13:07

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.6	30.3	91.0
150	156.1	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-amvl acetate

Concen: 0.227 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN057857.D

Acq: 10 Sep 2019 13:07

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 1700

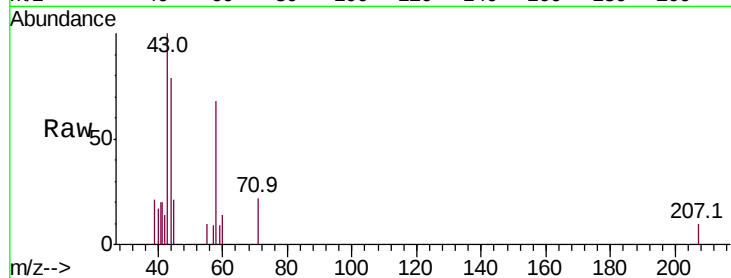
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 4.0 18.6 27.8#

61 0.0 17.4 26.2#

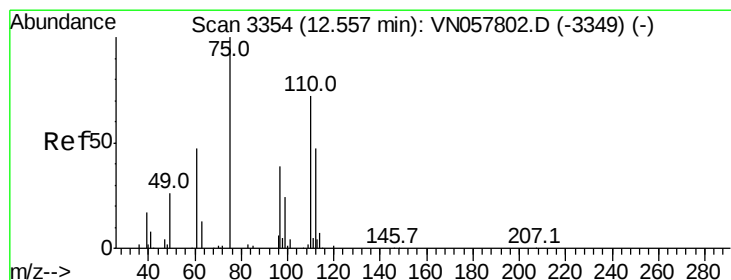
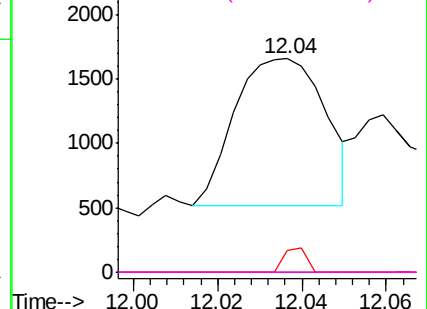
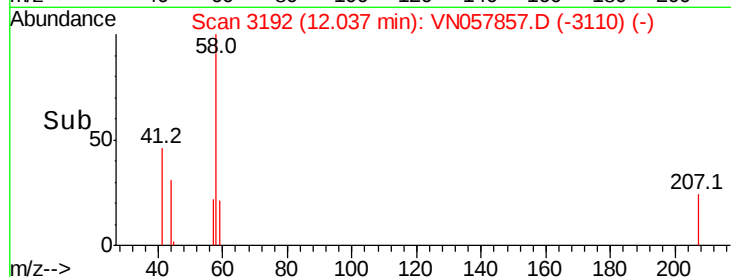


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 30.074 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057857.D

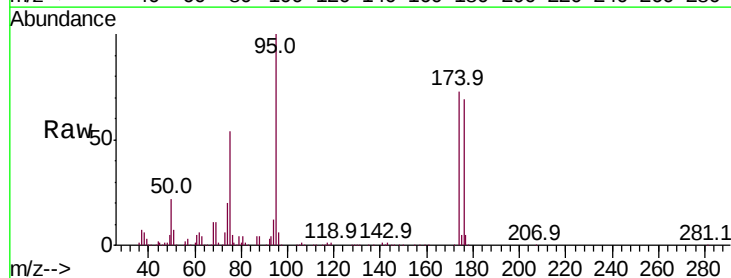
Acq: 10 Sep 2019 13:07

Tgt Ion: 75 Resp: 150553

Ion Ratio Lower Upper

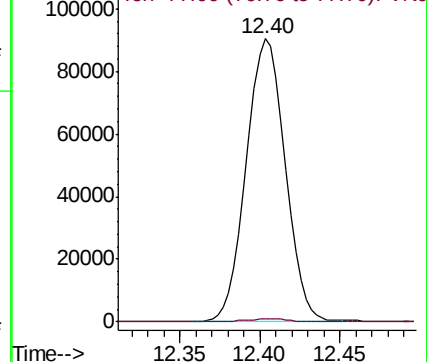
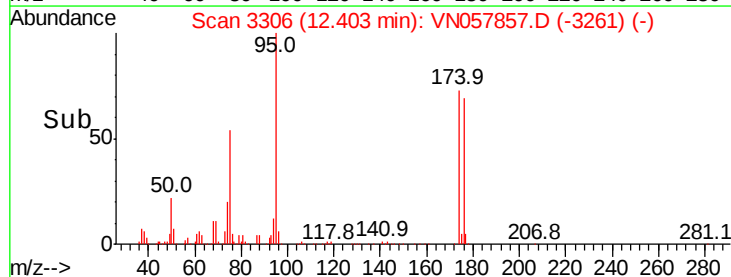
75 100

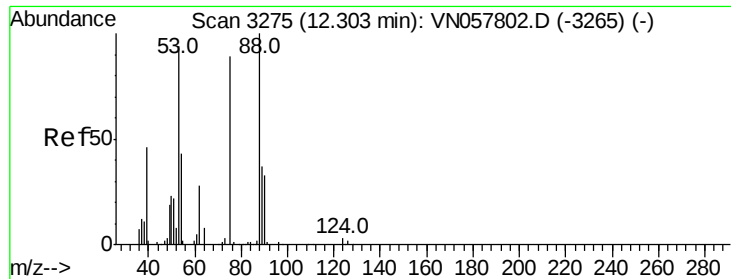
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 105.829 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057857.D

Acq: 10 Sep 2019 13:07

Instrument :

MSVOA_N

ClientSampleId :

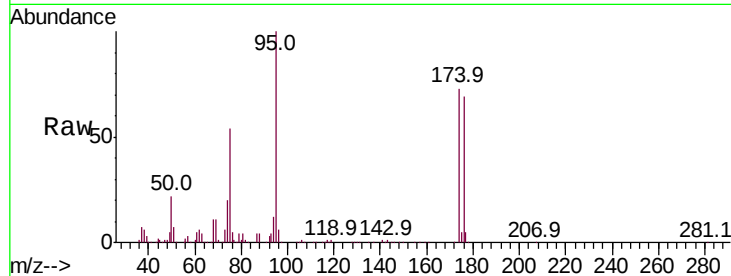
Tot Ion: 75 Resp: 150553

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

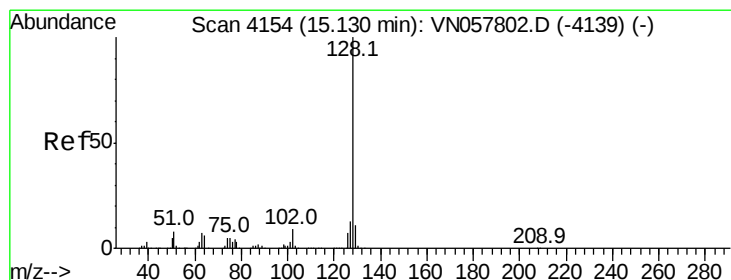
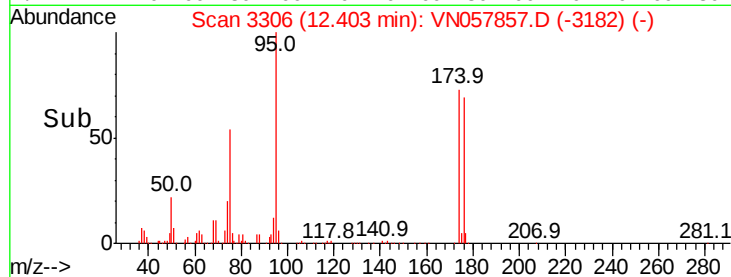
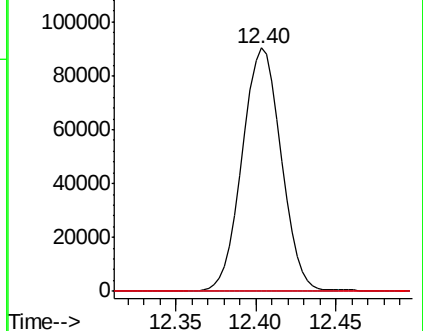
89 0.1 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-3265) (-)

Ion 53.00 (52.70 to 53.70): VN057802.D (-3265) (-)

Ion 88.90 (88.60 to 89.60): VN057802.D (-3265) (-)



#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN057857.D

Acq: 10 Sep 2019 13:07

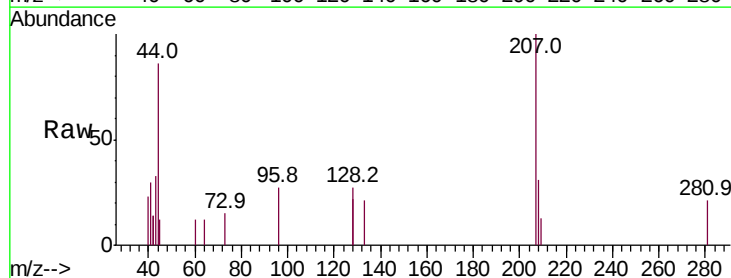
Tgt Ion: 128 Resp: 471

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): VN057802.D (-4139) (-)

Ion 127.00 (126.70 to 127.70): VN057802.D (-4139) (-)

Ion 129.00 (128.70 to 129.70): VN057802.D (-4139) (-)

