

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091019\
 Data File : VN057823.D
 Acq On : 9 Sep 2019 23:54
 Operator : JC/SP
 Sample : K4603-29
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 10 07:12:43 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	303957	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	526567	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	485285	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	251270	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	681052	110.62	ug/l	0.00
Spiked Amount			Recovery	=	221.24%	
35) Dibromofluoromethane	7.58	113	465562	95.79	ug/l	0.00
Spiked Amount			Recovery	=	191.58%	
50) Toluene-d8	10.09	98	1909151	101.18	ug/l	0.00
Spiked Amount			Recovery	=	202.36%	
62) 4-Bromofluorobenzene	12.40	95	632375	87.94	ug/l	0.00
Spiked Amount			Recovery	=	175.88%	

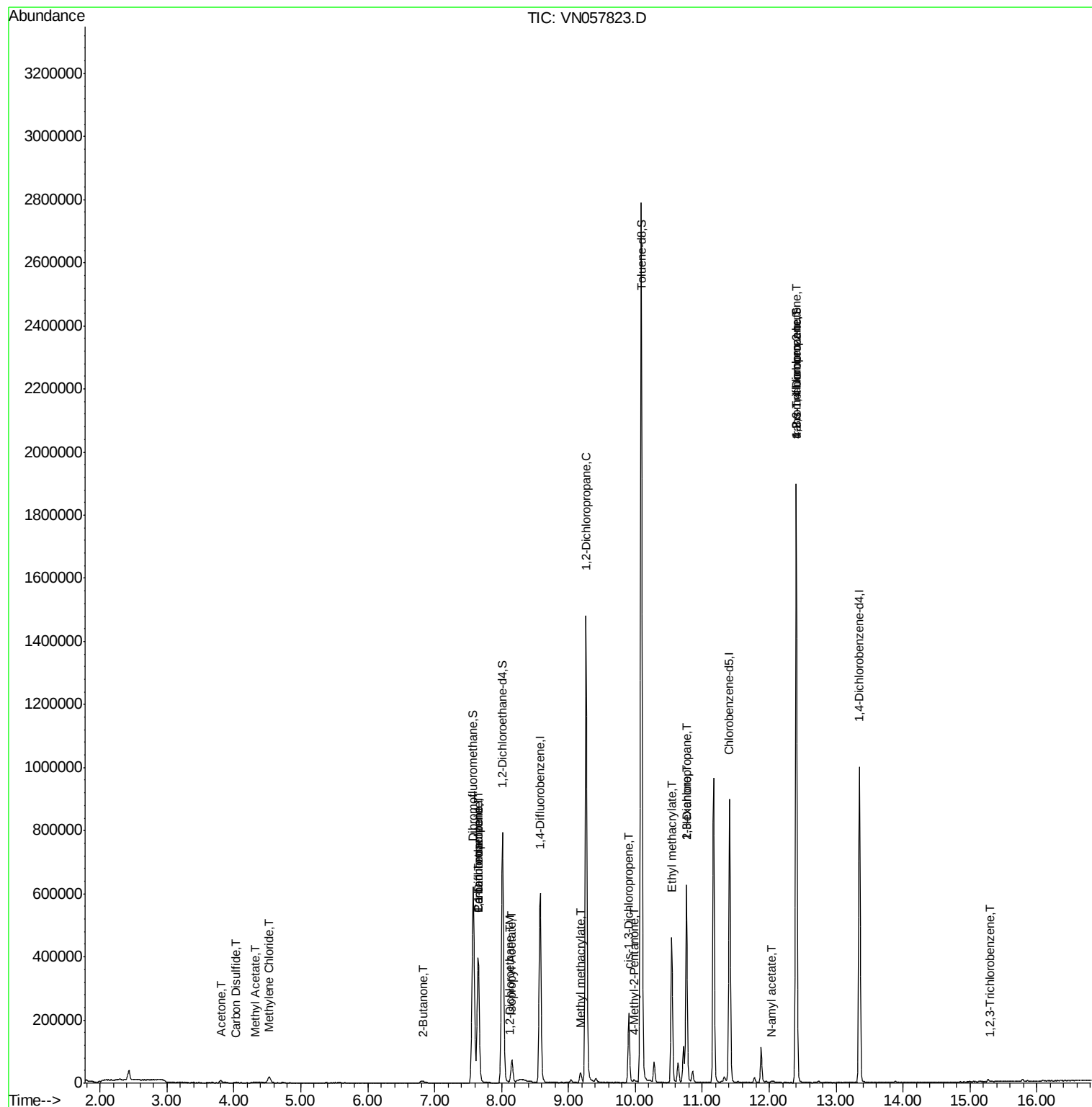
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.52	94	107	Below Cal	#	2
16) Acetone	3.80	43	10604	5.254	ug/l #	89
17) Carbon Disulfide	4.02	76	428	0.243	ug/l #	75
18) Methyl Acetate	4.32	43	5088	0.946	ug/l #	88
20) Methylene Chloride	4.53	84	13808	2.423	ug/l	89
25) 2-Butanone	6.84	43	2131	0.730	ug/l	97
31) Cyclohexane	7.65	56	8153	Below Cal	#	37
36) 1,1-Dichloropropene	7.65	75	27076	4.434	ug/l #	49
38) Carbon Tetrachloride	7.65	117	31610	5.669	ug/l #	17
42) 1,2-Dichloroethane	8.11	62	1526	0.208	ug/l #	78
43) Isopropyl Acetate	8.15	43	83574	7.877	ug/l #	92
45) 1,2-Dichloropropane	9.26	63	1830	0.342	ug/l #	44
48) Methyl methacrylate	9.18	41	5251	0.976	ug/l #	13
51) 4-Methyl-2-Pentanone	9.99	43	6957	1.108	ug/l #	84
54) cis-1,3-Dichloropropene	9.90	75	36793	4.902	ug/l #	66
56) Ethyl methacrylate	10.54	69	1641	0.222	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	6241	0.738	ug/l #	43
59) 2-Hexanone	10.76	43	98429	20.914	ug/l #	53
74) N-amyl acetate	12.04	43	4289	0.505	ug/l #	47
76) 1,2,3-Trichloropropane	12.40	75	347320	61.103	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	347320	215.023	ug/l #	6
95) Naphthalene	15.14	128	1400	Below Cal	#	69
96) 1,2,3-Trichlorobenzene	15.30	180	319	1.060	ug/l #	75

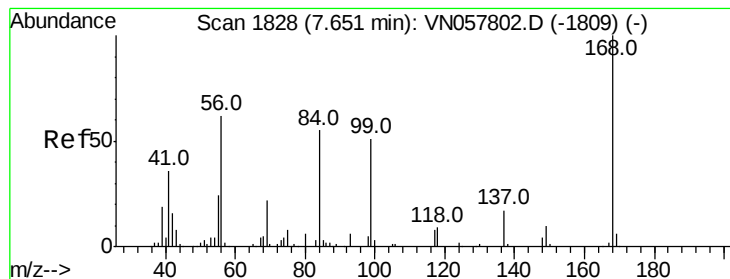
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Sep 10 03:02:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057823.D

Acq: 9 Sep 2019 23:54

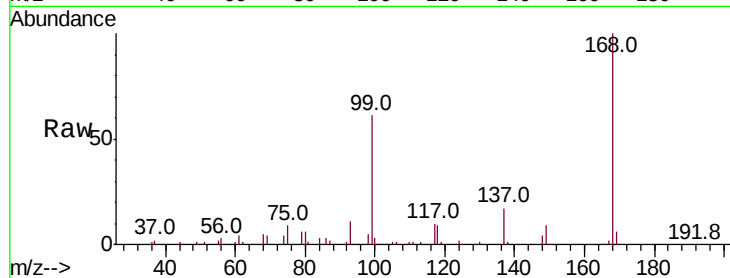
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 303957

Ion Ratio Lower Upper

168 100

99 61.5 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

150000

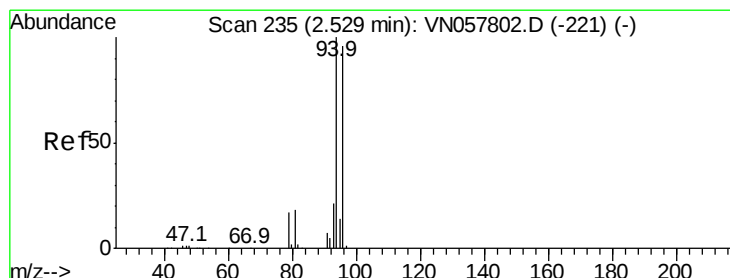
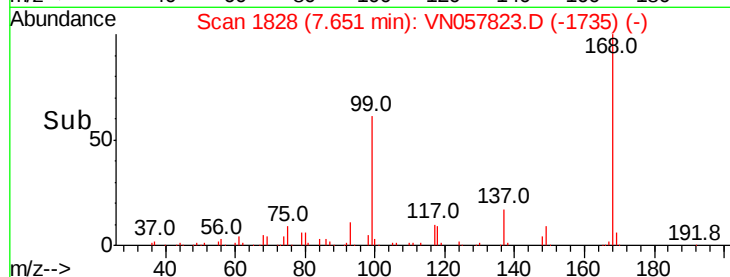
100000

50000

0

7.60 7.70

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.52 min Scan# 233

Delta R.T. -0.01 min

Lab File: VN057823.D

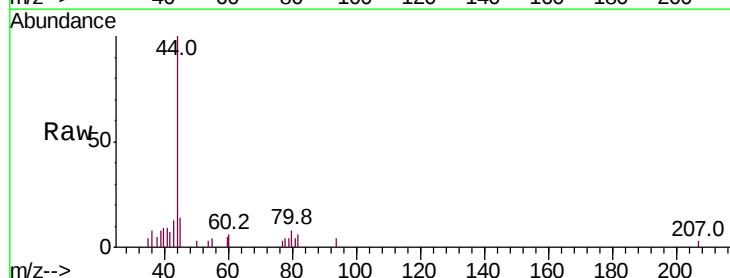
Acq: 9 Sep 2019 23:54

Tgt Ion: 94 Resp: 107

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) (-)

2.52

250

200

150

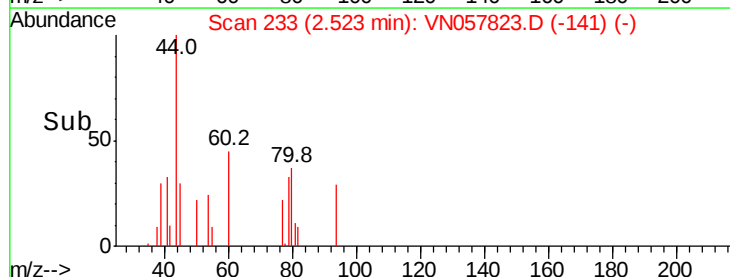
100

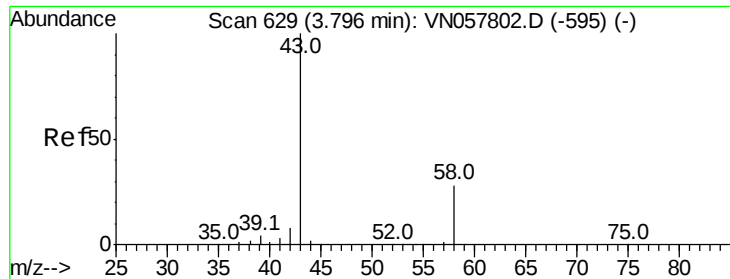
50

0

2.51 2.52 2.53

Time-->





#16

Acetone

Concen: 5.254 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN057823.D

Acq: 9 Sep 2019 23:54

Instrument :

MSVOA_N

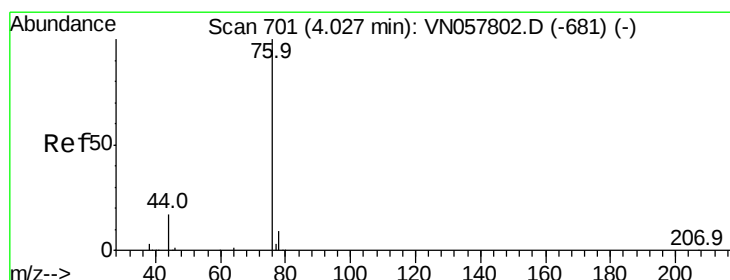
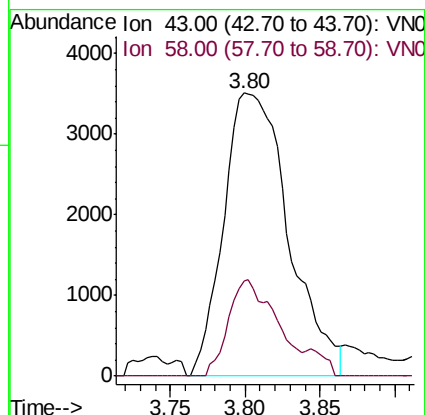
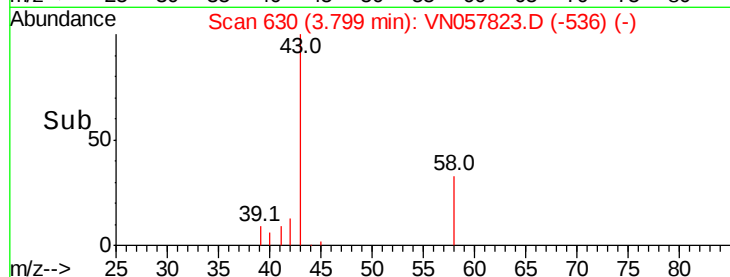
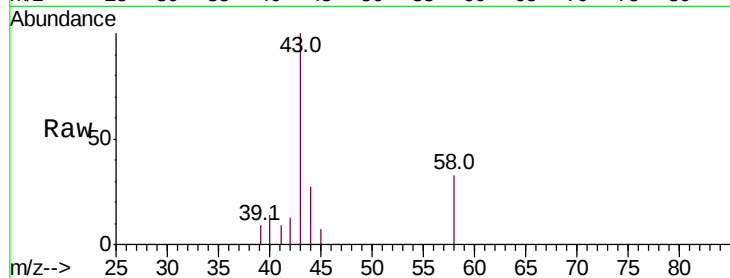
ClientSampled :

Tot Ion: 43 Resp: 10604

Ion Ratio Lower Upper

43 100

58 33.5 22.2 33.2#



#17

Carbon Disulfide

Concen: 0.243 ug/l

RT: 4.02 min Scan# 700

Delta R.T. -0.00 min

Lab File: VN057823.D

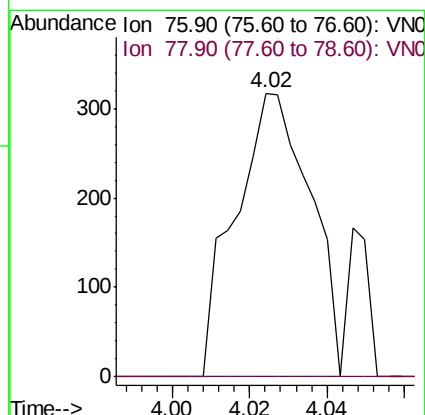
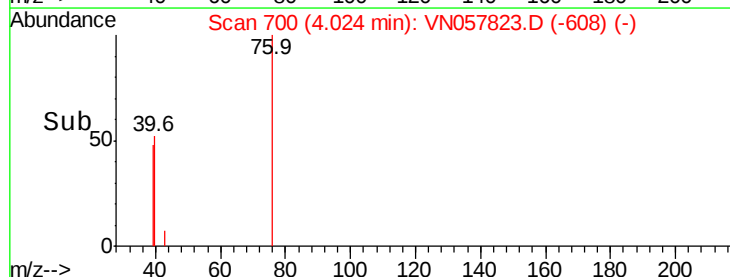
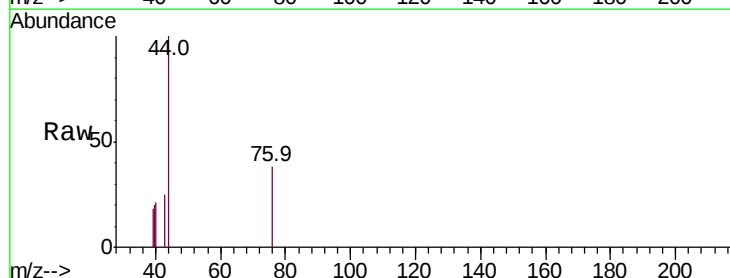
Acq: 9 Sep 2019 23:54

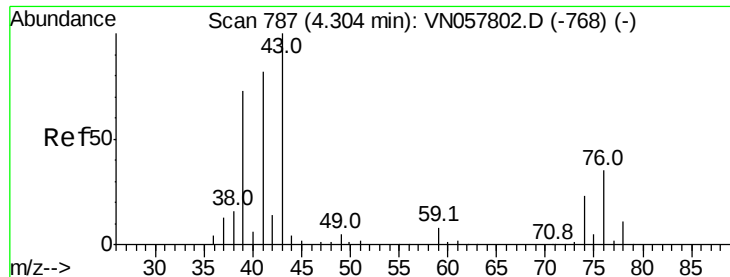
Tgt Ion: 76 Resp: 428

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#

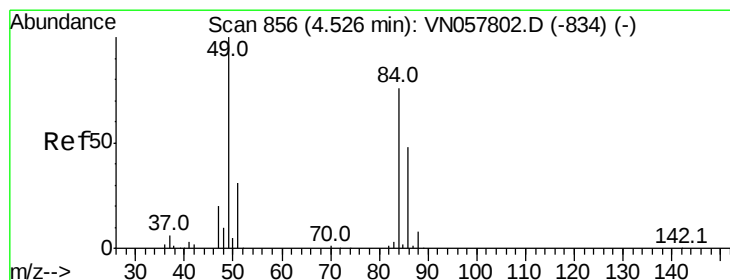
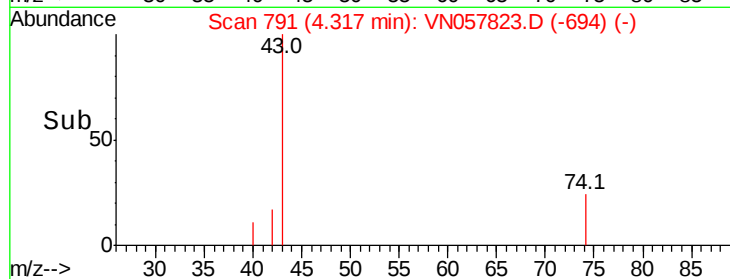
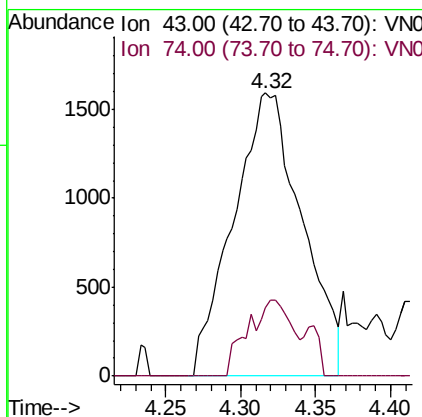
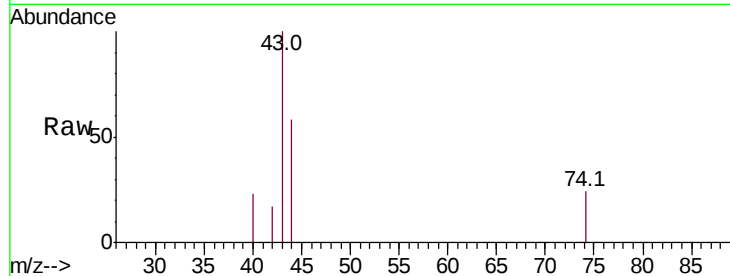




#18
Methyl Acetate
Concen: 0.946 ug/l
RT: 4.32 min Scan# 791
Delta R.T. 0.01 min
Lab File: VN057823.D
Acq: 9 Sep 2019 23:54

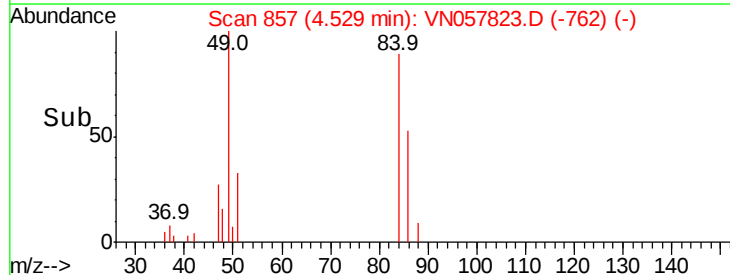
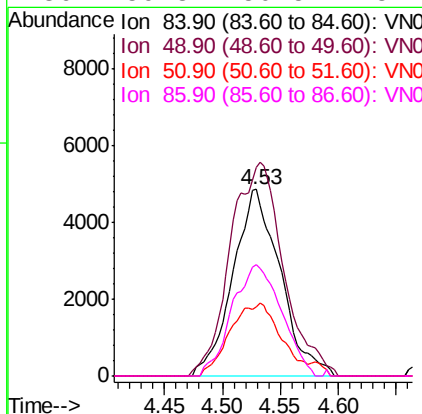
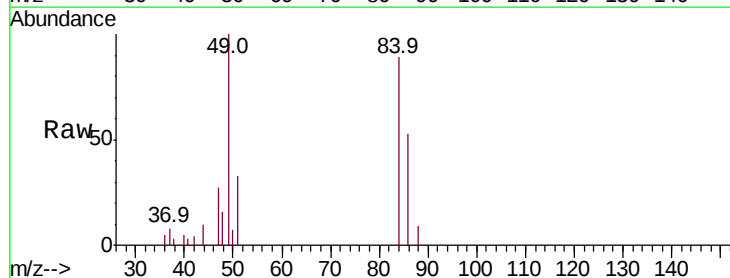
Instrument :
MSVOA_N
ClientSampleId :

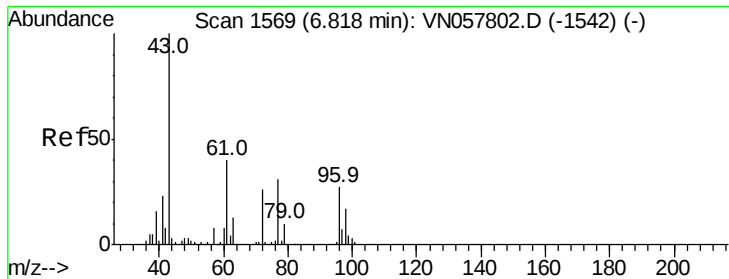
Tot Ion: 43 Resp: 5088
Ion Ratio Lower Upper
43 100
74 16.9 17.9 26.9#



#20
Methylene Chloride
Concen: 2.423 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN057823.D
Acq: 9 Sep 2019 23:54

Tgt Ion: 84 Resp: 13808
Ion Ratio Lower Upper
84 100
49 112.2 104.8 157.2
51 37.1 33.0 49.4
86 59.8 50.5 75.7





#25

2-Butanone

Concen: 0.730 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.02 min

Lab File: VN057823.D

Acq: 9 Sep 2019 23:54

Instrument :

MSVOA_N

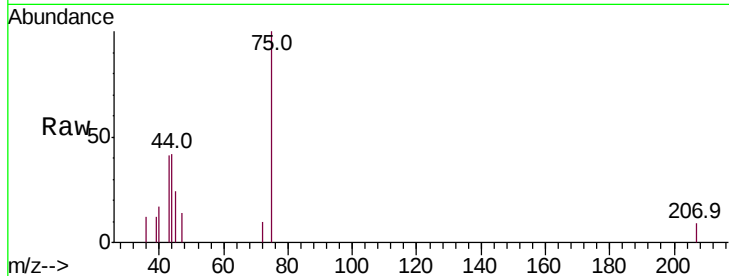
ClientSampled :

Tot Ion: 43 Resp: 2131

Ion Ratio Lower Upper

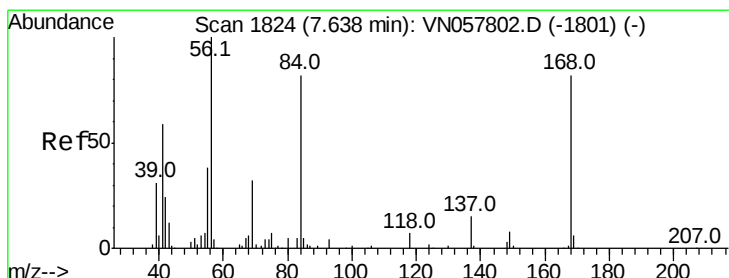
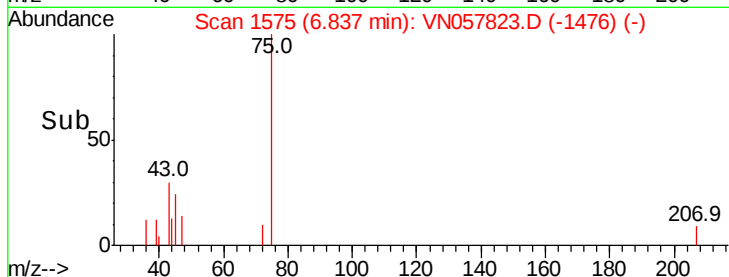
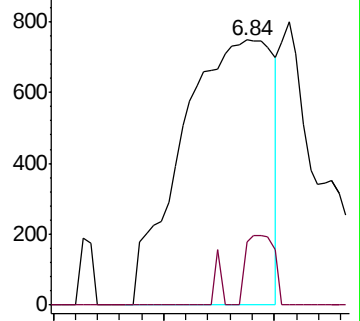
43 100

72 23.9 20.6 30.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN057823.D

Acq: 9 Sep 2019 23:54

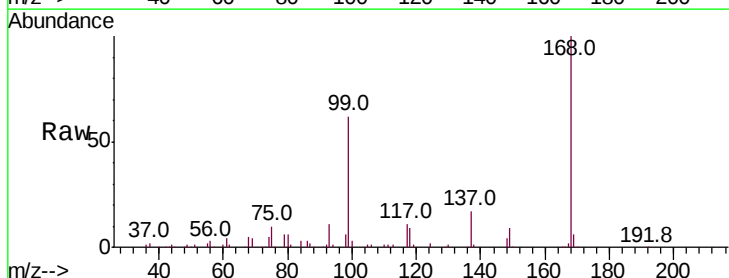
Tgt Ion: 56 Resp: 8153

Ion Ratio Lower Upper

56 100

69 139.1 25.9 38.9#

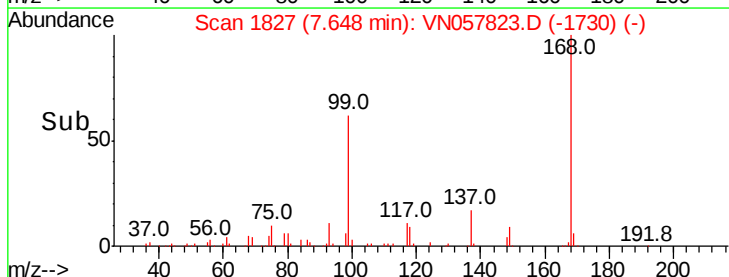
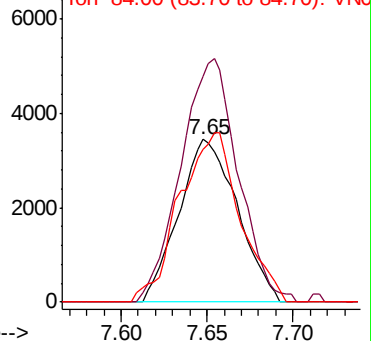
84 93.8 65.6 98.4

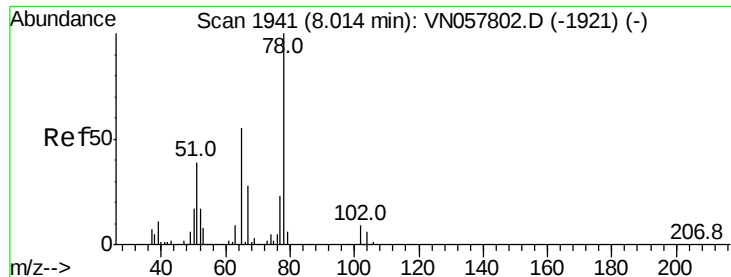


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

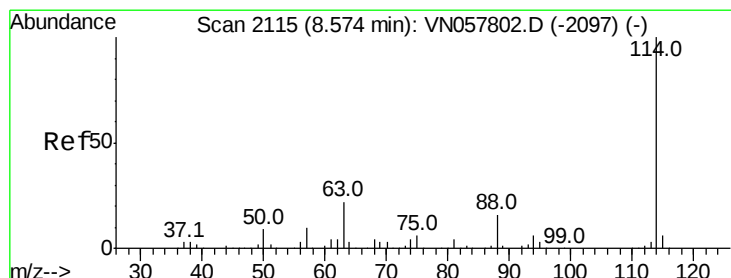
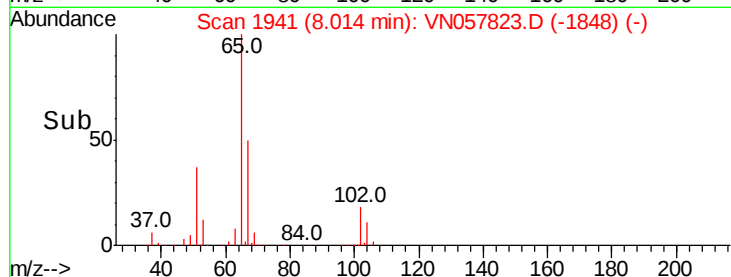
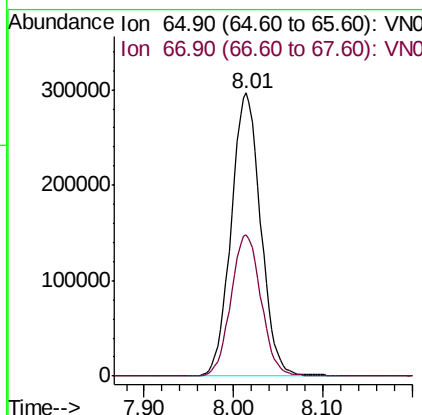
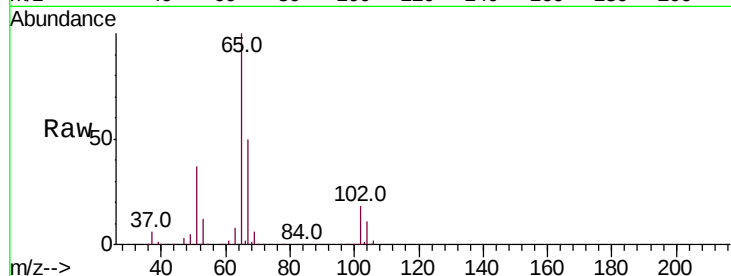




#33
 1,2-Dichloroethane-d4
 Concen: 110.625 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057823.D
 Acq: 9 Sep 2019 23:54

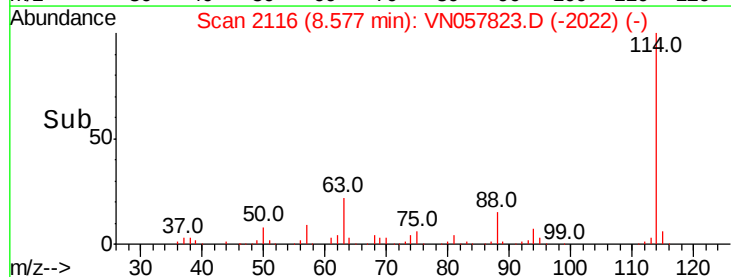
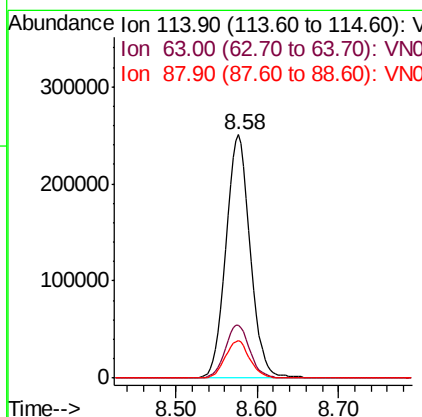
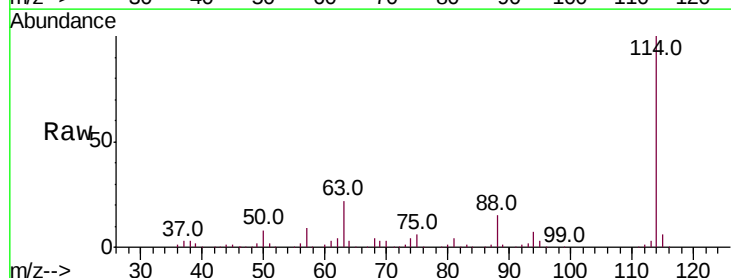
Instrument :
 MSVOA_N
 ClientSampleId :

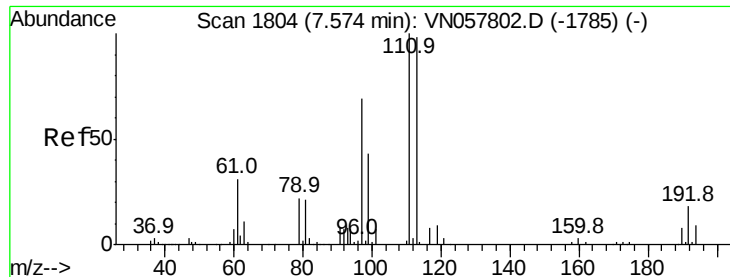
Tot Ion: 65 Resp: 681052
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057823.D
 Acq: 9 Sep 2019 23:54

Tgt Ion: 114 Resp: 526567
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 44.0
 88 15.4 0.0 31.4

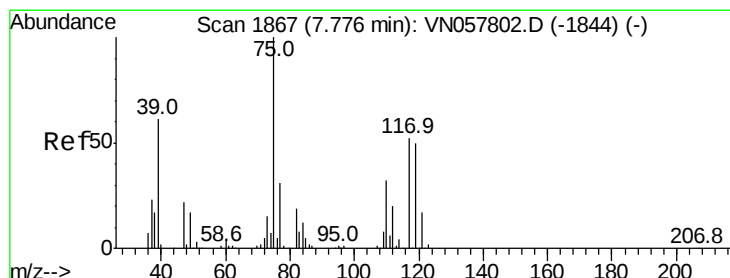
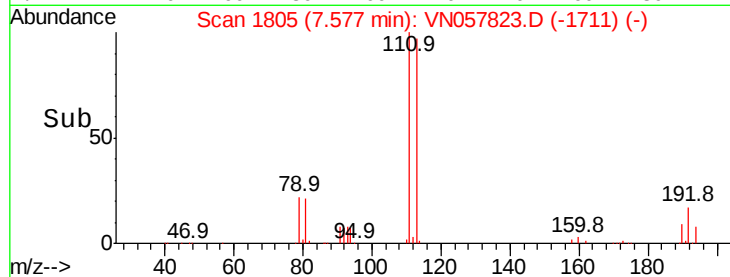
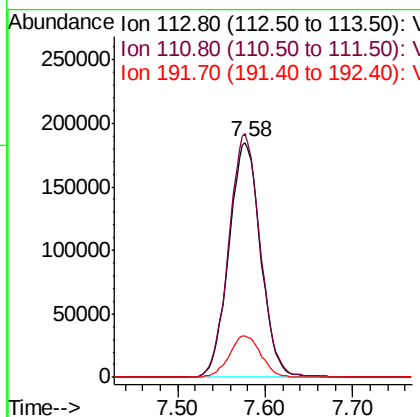
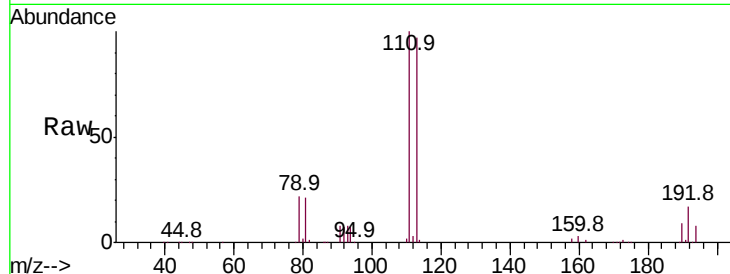




#35
 Dibromofluoromethane
 Concen: 95.795 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057823.D
 Acq: 9 Sep 2019 23:54

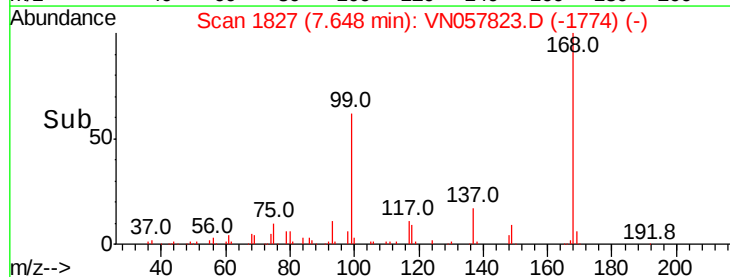
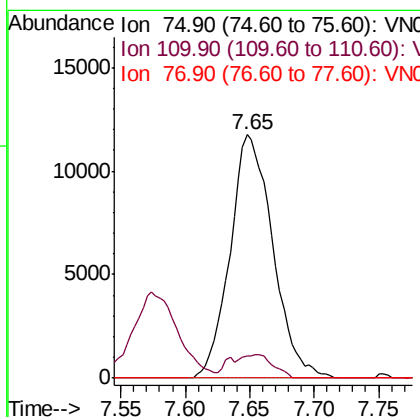
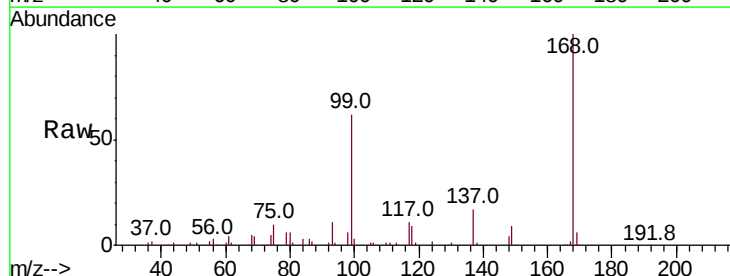
Instrument :
 MSVOA_N
 ClientSampled :

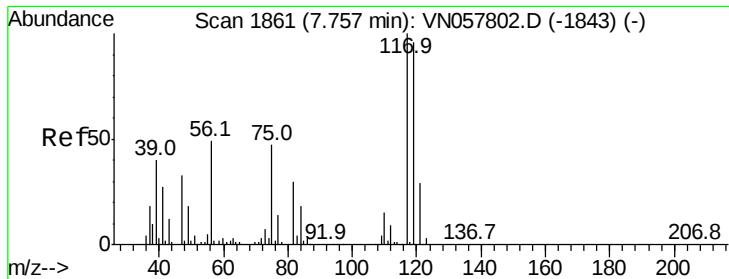
Tot Ion:113 Resp: 465562
 Ion Ratio Lower Upper
 113 100
 111 103.4 81.3 121.9
 192 17.9 14.6 22.0



#36
 1,1-Dichloropropene
 Concen: 4.434 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN057823.D
 Acq: 9 Sep 2019 23:54

Tgt Ion: 75 Resp: 27076
 Ion Ratio Lower Upper
 75 100
 110 6.8 16.3 48.9#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.669 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN057823.D

Acq: 9 Sep 2019 23:54

Instrument :

MSVOA_N

ClientSampleId :

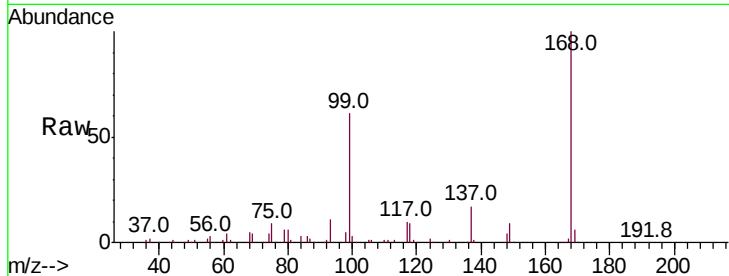
Tot Ion:117 Resp: 31610

Ion Ratio Lower Upper

117 100

119 6.0 76.9 115.3#

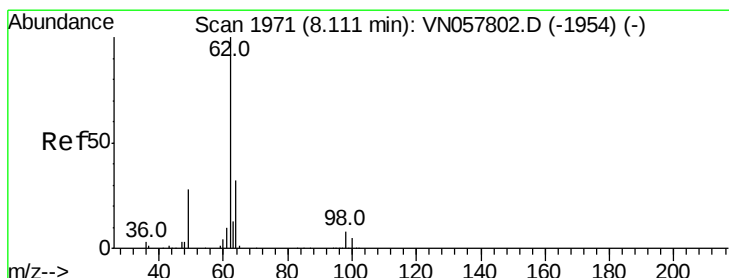
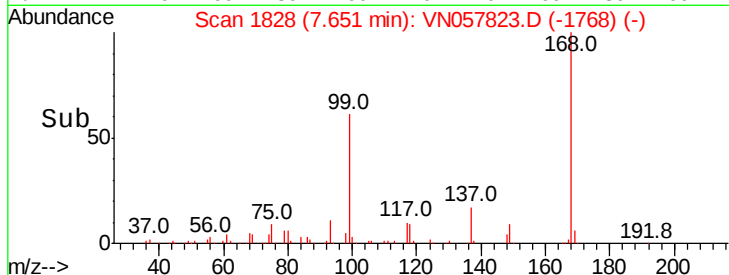
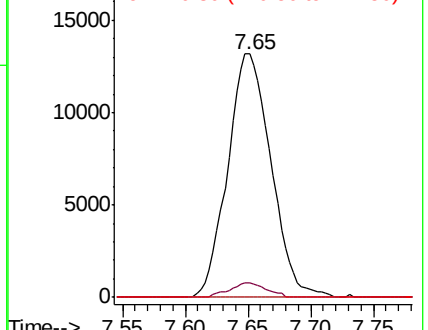
121 0.0 23.4 35.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#42

1,2-Dichloroethane

Concen: 0.208 ug/l

RT: 8.11 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VN057823.D

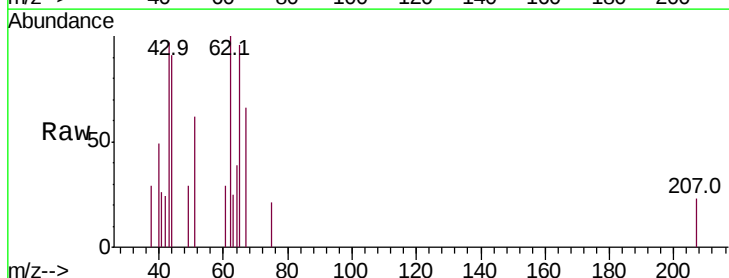
Acq: 9 Sep 2019 23:54

Tgt Ion: 62 Resp: 1526

Ion Ratio Lower Upper

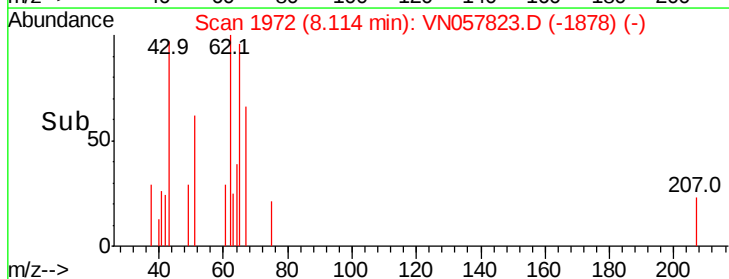
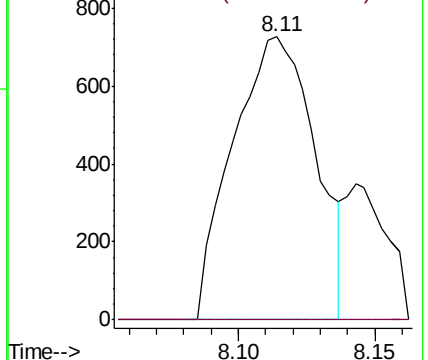
62 100

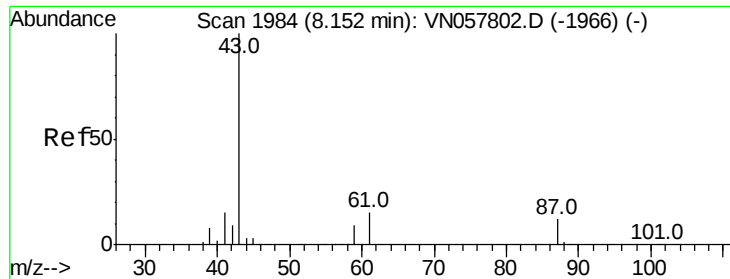
98 0.0 0.0 15.8



Abundance Ion 61.90 (61.60 to 62.60): V

Ion 97.90 (97.60 to 98.60): V





#43

Isopropyl Acetate

Concen: 7.877 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN057823.D

Acq: 9 Sep 2019 23:54

Instrument :

MSVOA_N

ClientSampleId :

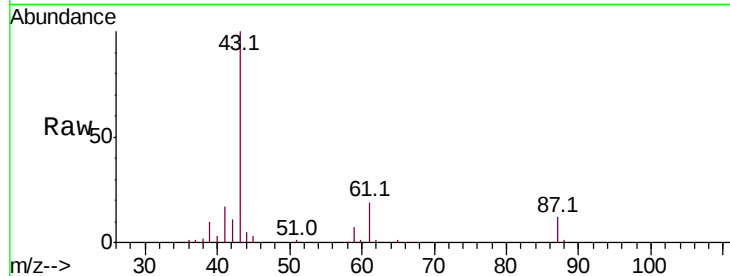
Tot Ion: 43 Resp: 83574

Ion Ratio Lower Upper

43 100

61 18.9 20.1 30.1#

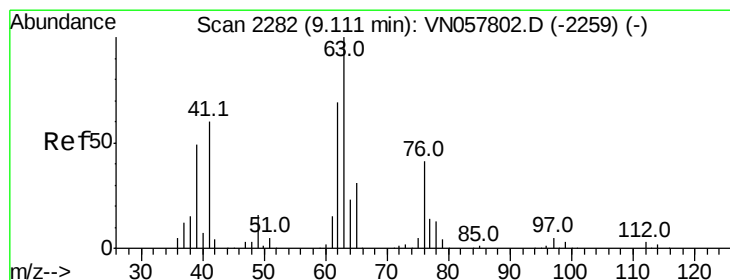
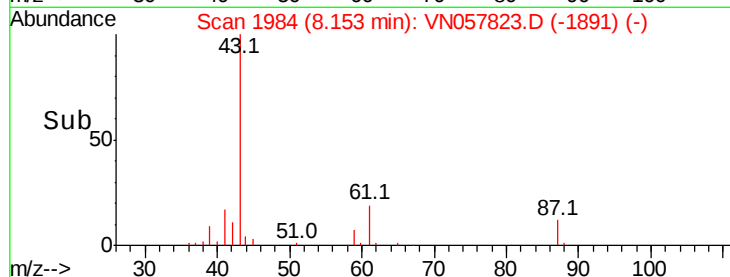
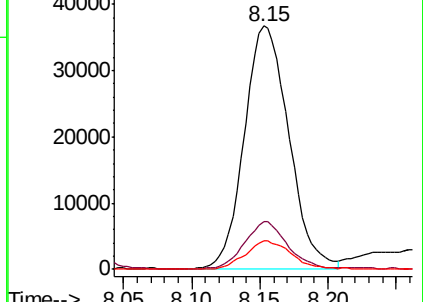
87 11.8 9.5 14.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.342 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.15 min

Lab File: VN057823.D

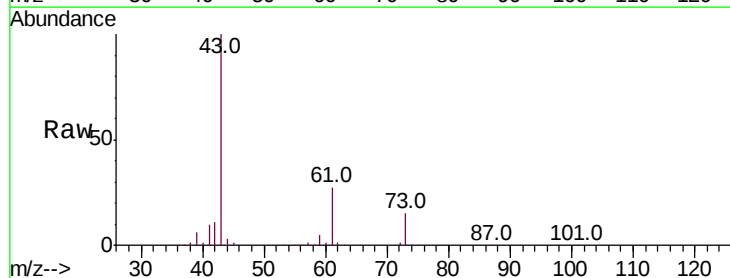
Acq: 9 Sep 2019 23:54

Tgt Ion: 63 Resp: 1830

Ion Ratio Lower Upper

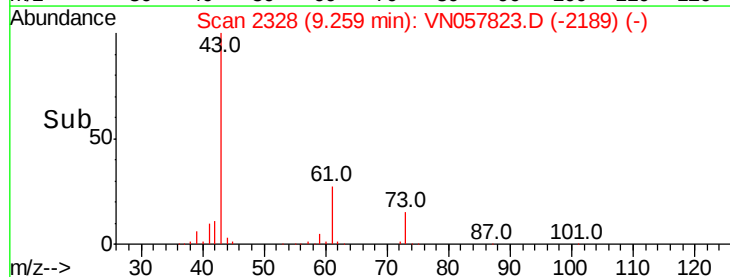
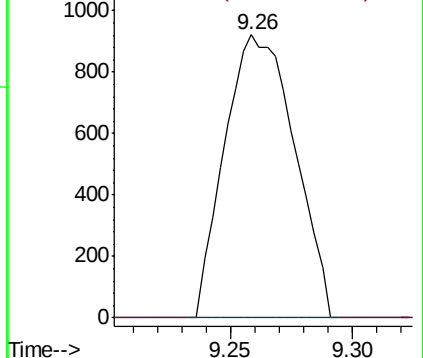
63 100

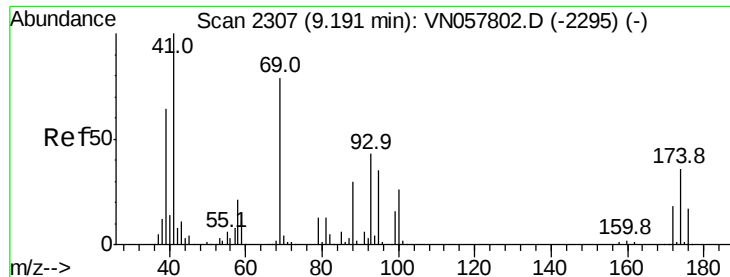
65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

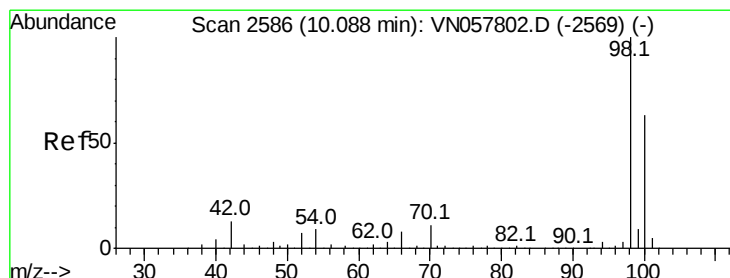
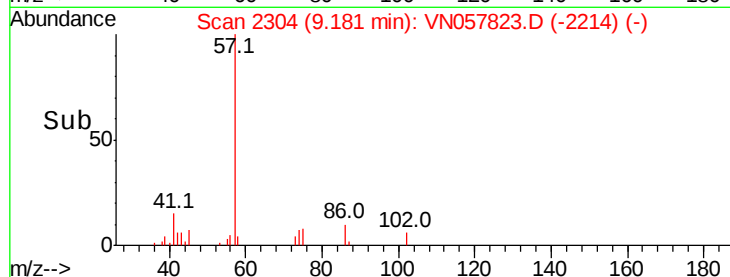
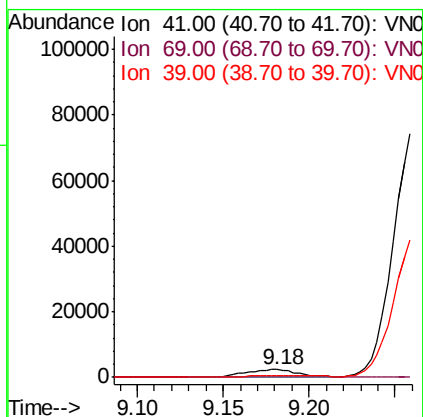
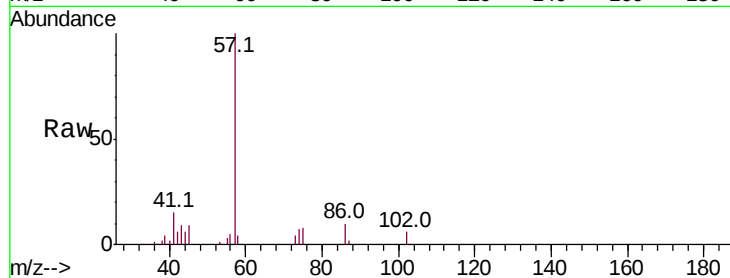




#48
Methvl methacrylate
Concen: 0.976 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.01 min
Lab File: VN057823.D
Acq: 9 Sep 2019 23:54

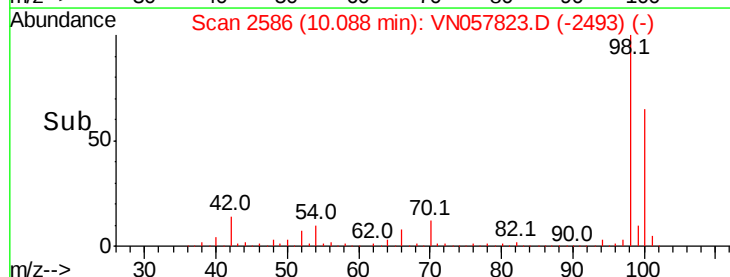
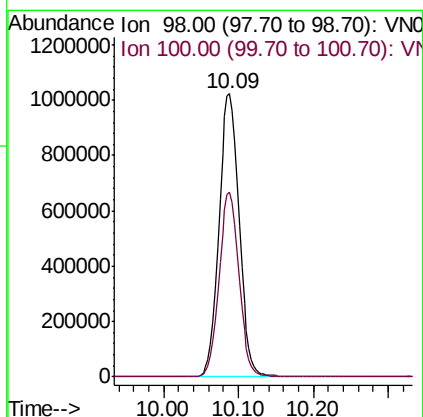
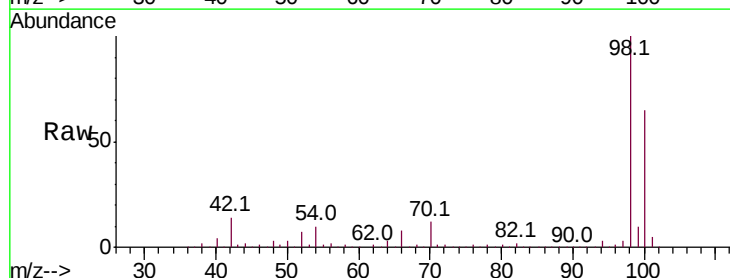
Instrument :
MSVOA_N
ClientSampleId :

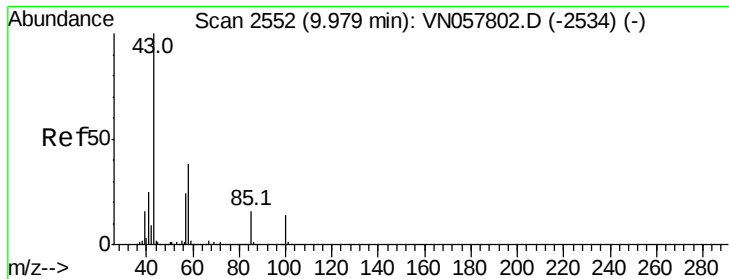
Tot Ion: 41 Resp: 5251
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#



#50
Toluene-d8
Concen: 101.178 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN057823.D
Acq: 9 Sep 2019 23:54

Tgt Ion: 98 Resp: 1909151
Ion Ratio Lower Upper
98 100
100 64.3 50.3 75.5





#51

4-Methyl-2-Pentanone

Concen: 1.108 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.01 min

Lab File: VN057823.D

Acq: 9 Sep 2019 23:54

Instrument :

MSVOA_N

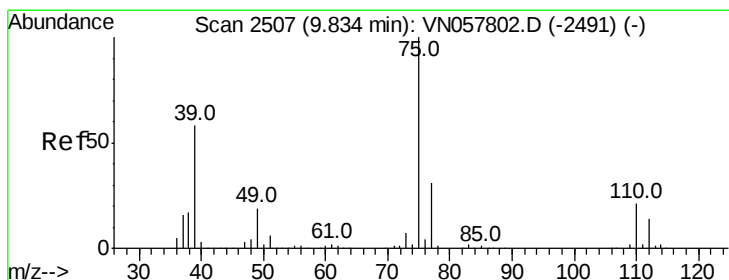
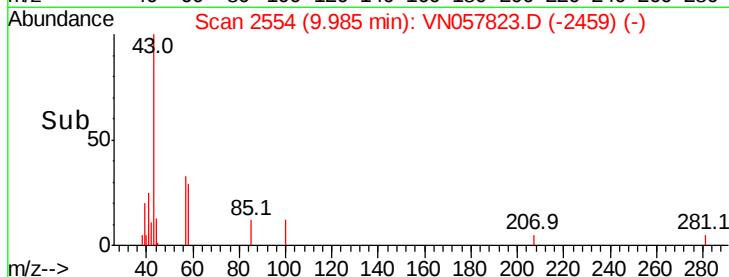
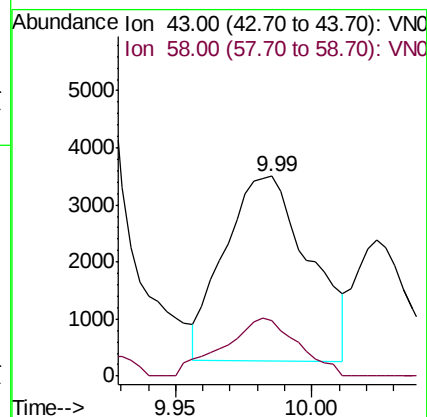
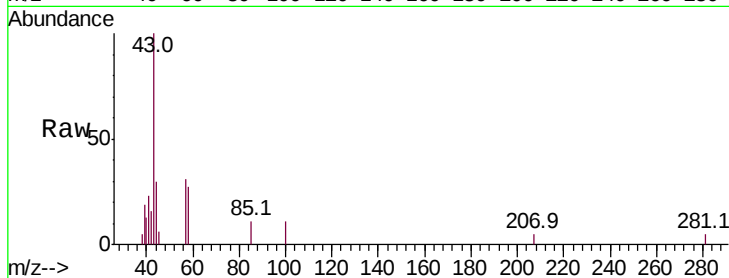
ClientSampleId :

Tot Ion: 43 Resp: 6957

Ion Ratio Lower Upper

43 100

58 27.7 29.8 44.6#



#54

cis-1,3-Dichloropropene

Concen: 4.902 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057823.D

Acq: 9 Sep 2019 23:54

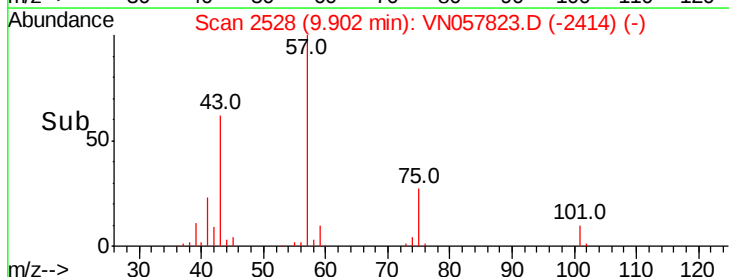
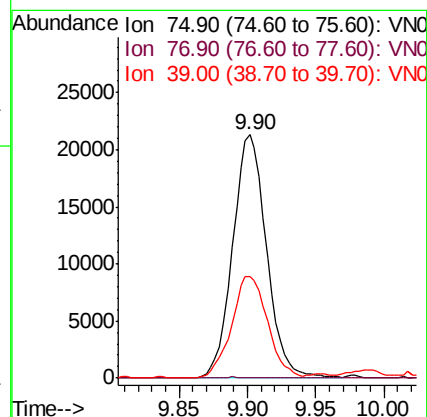
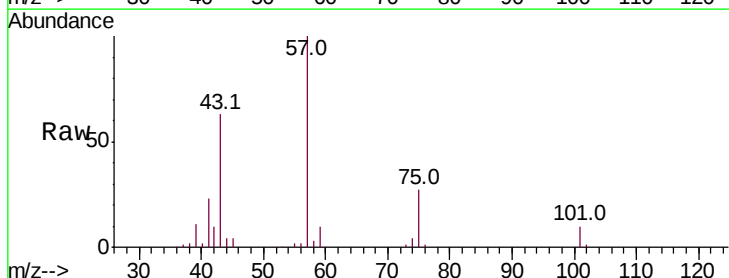
Tgt Ion: 75 Resp: 36793

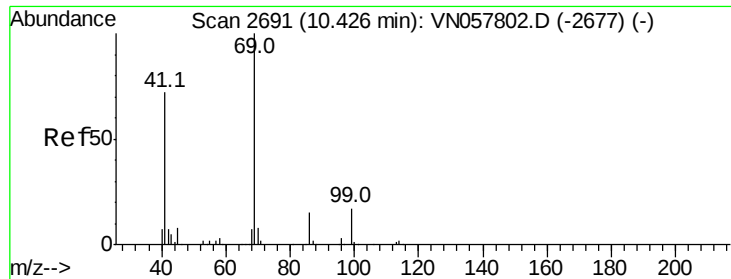
Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 41.8 46.2 69.4#





#56

Ethyl methacrylate

Concen: 0.222 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN057823.D

Acq: 9 Sep 2019 23:54

Instrument :

MSVOA_N

ClientSampleId :

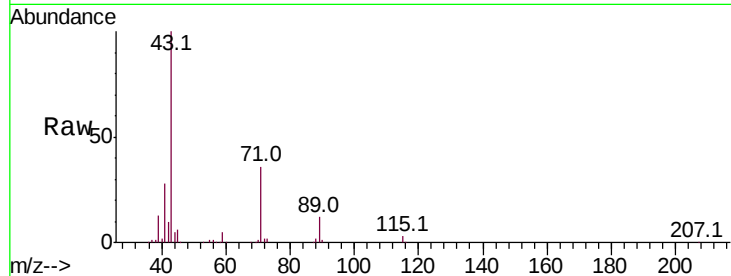
Tot Ion: 69 Resp: 1641

Ion Ratio Lower Upper

69 100

41 5813.7 56.7 85.1#

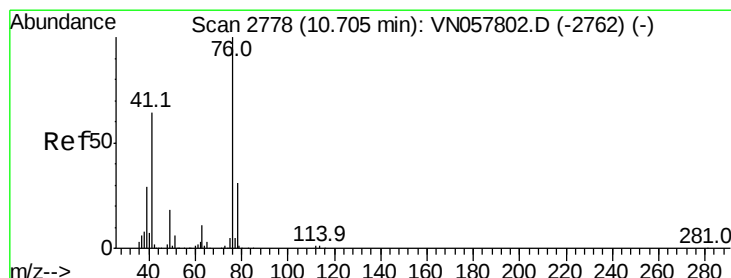
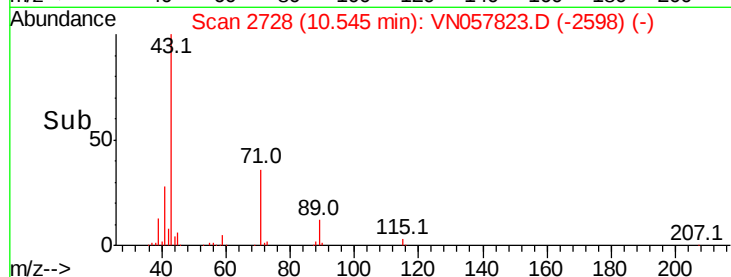
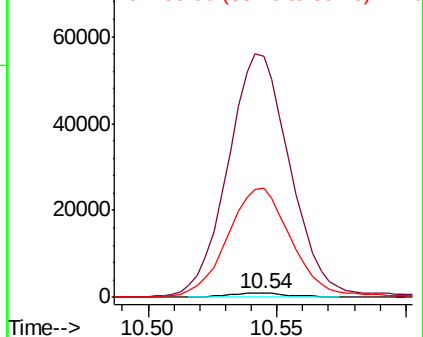
39 2687.8 36.3 54.5#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.738 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN057823.D

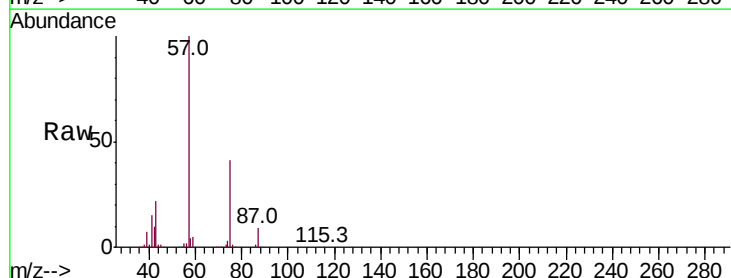
Acq: 9 Sep 2019 23:54

Tgt Ion: 76 Resp: 6241

Ion Ratio Lower Upper

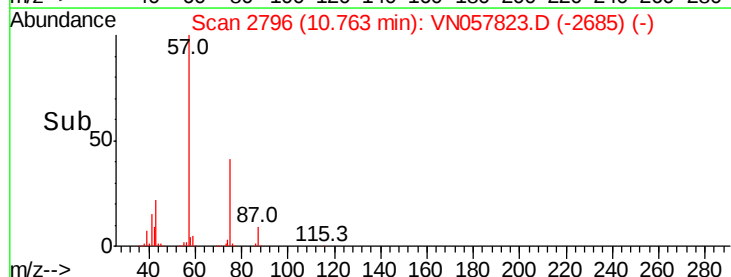
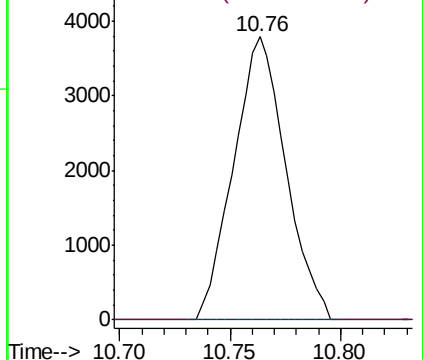
76 100

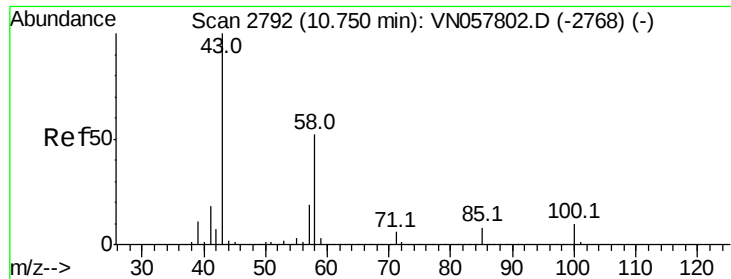
78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

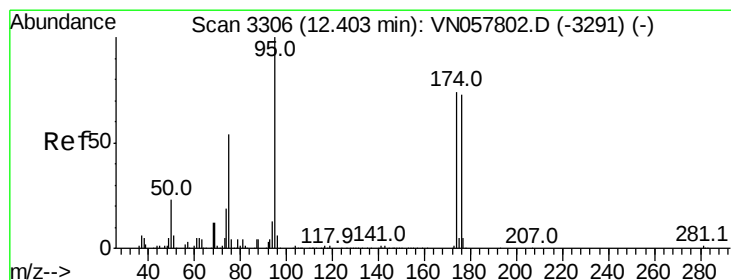
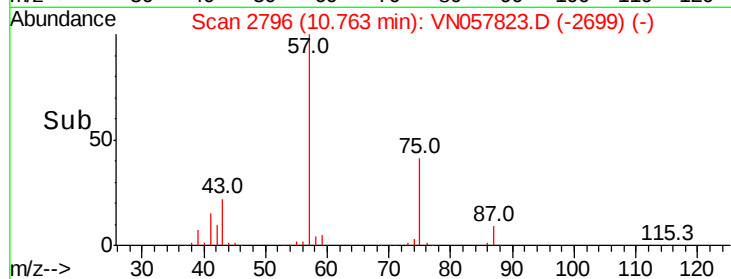
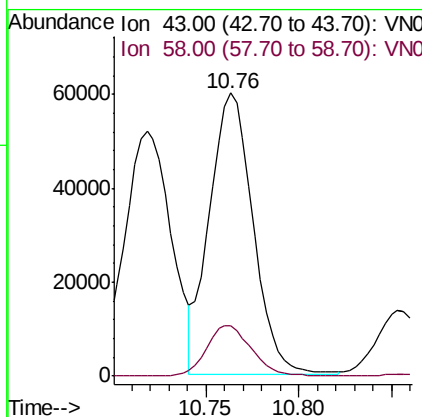
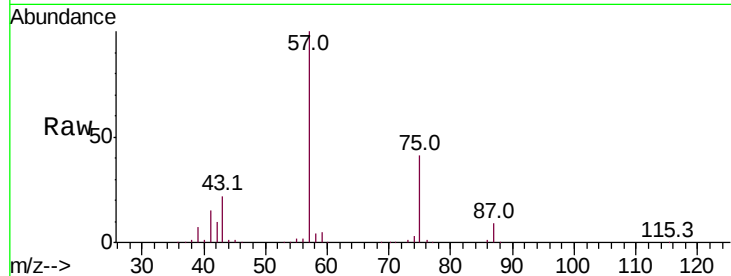




#59
2-Hexanone
Concen: 20.914 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN057823.D
Acq: 9 Sep 2019 23:54

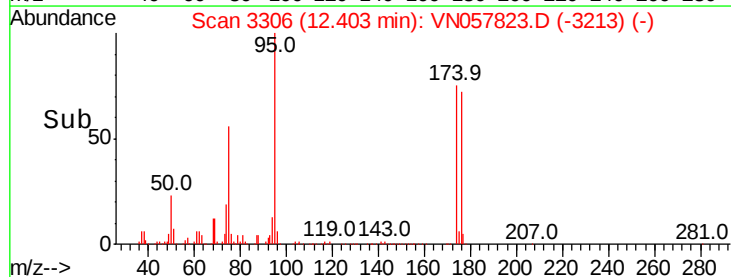
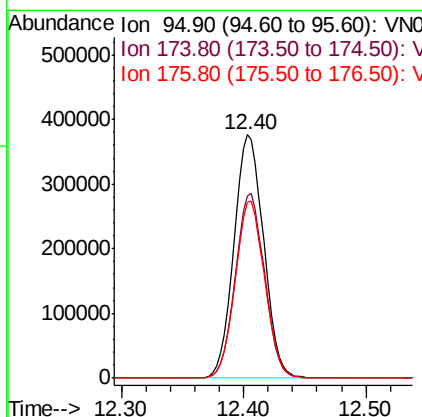
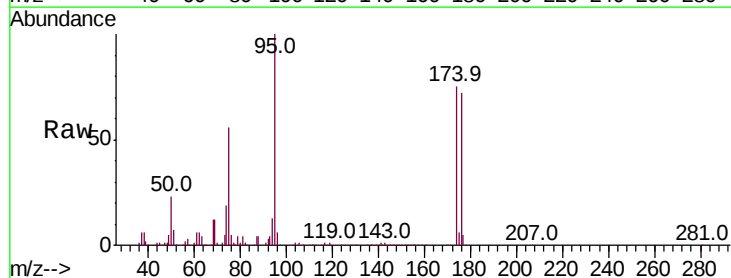
Instrument :
MSVOA_N
ClientSampled :

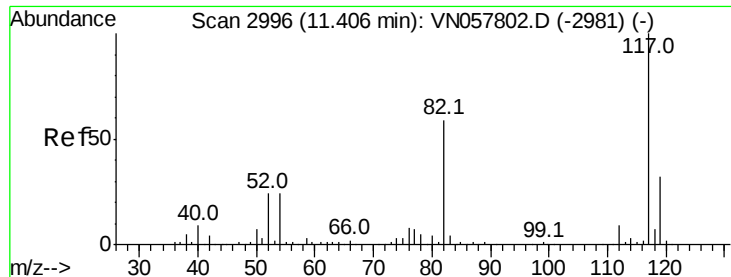
Tot Ion: 43 Resp: 98429
Ion Ratio Lower Upper
43 100
58 18.3 25.6 76.8#



#62
4-Bromofluorobenzene
Concen: 87.942 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057823.D
Acq: 9 Sep 2019 23:54

Tgt Ion: 95 Resp: 632375
Ion Ratio Lower Upper
95 100
174 74.8 0.0 150.2
176 72.2 0.0 146.0

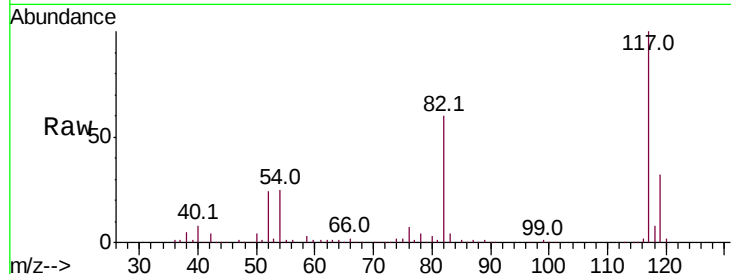




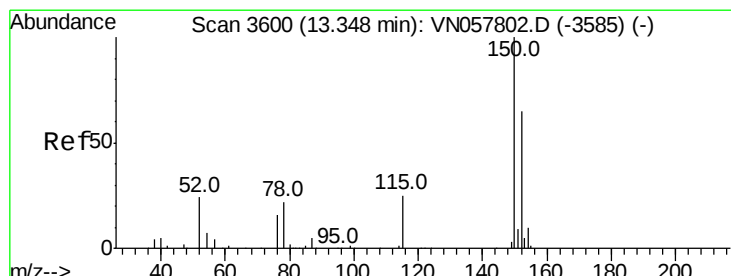
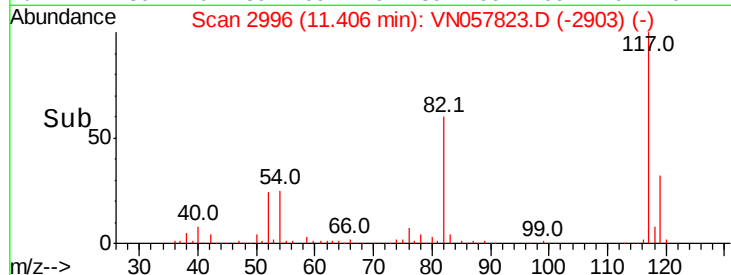
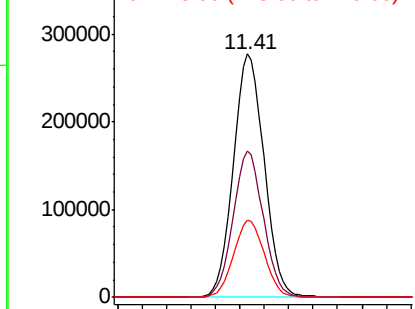
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057823.D
Acq: 9 Sep 2019 23:54

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 485285
Ion Ratio Lower Upper
117 100
82 60.4 47.2 70.8
119 31.9 25.3 37.9

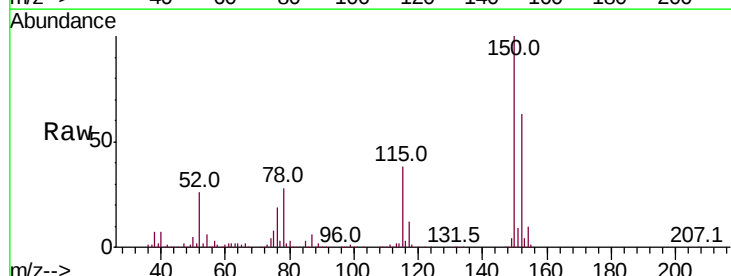


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

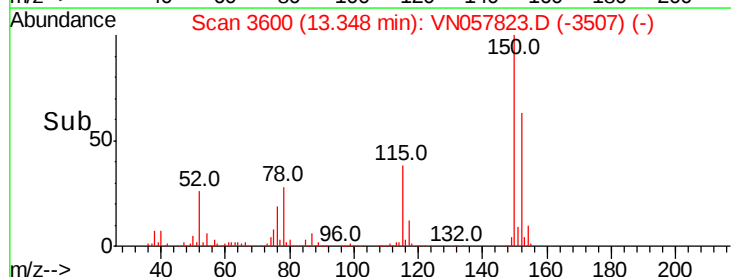
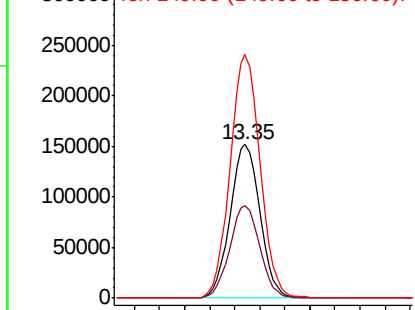


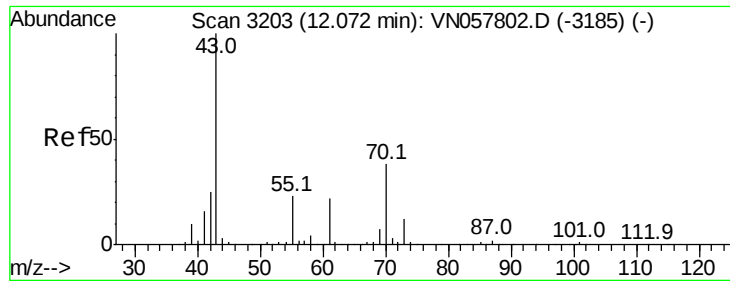
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN057823.D
Acq: 9 Sep 2019 23:54

Tgt Ion:152 Resp: 251270
Ion Ratio Lower Upper
152 100
115 60.9 30.3 91.0
150 159.2 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: 0.505 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN057823.D

Acq: 9 Sep 2019 23:54

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 4289

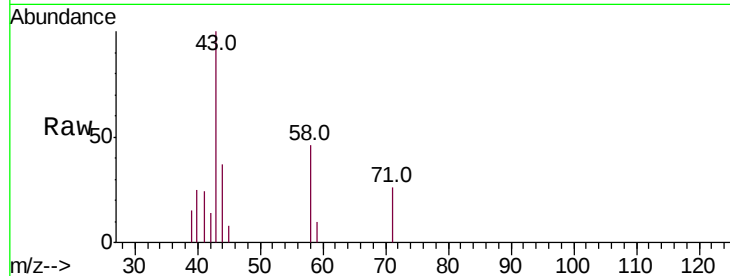
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 2.7 18.6 27.8#

61 0.0 17.4 26.2#

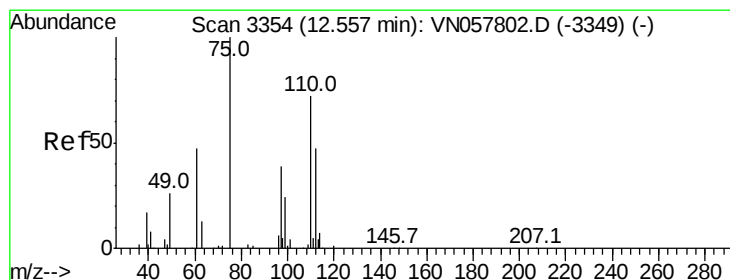
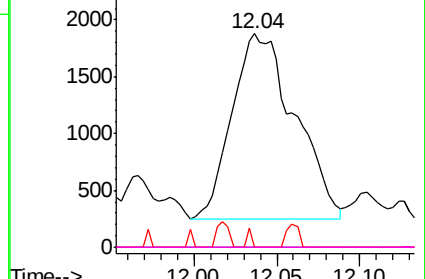
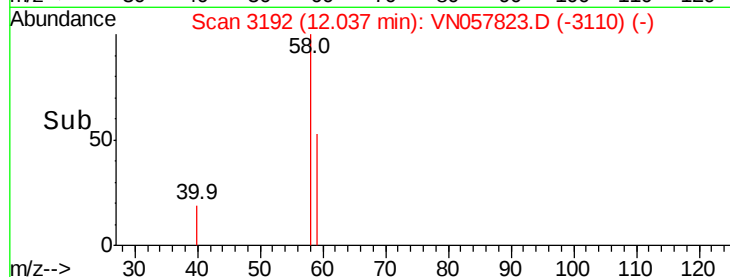


Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-3185) (-)

Ion 70.00 (69.70 to 70.70): VN057802.D (-3185) (-)

Ion 55.00 (54.70 to 55.70): VN057802.D (-3185) (-)

Ion 61.00 (60.70 to 61.70): VN057802.D (-3185) (-)



#76

1,2,3-Trichloropropane

Concen: 61.103 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057823.D

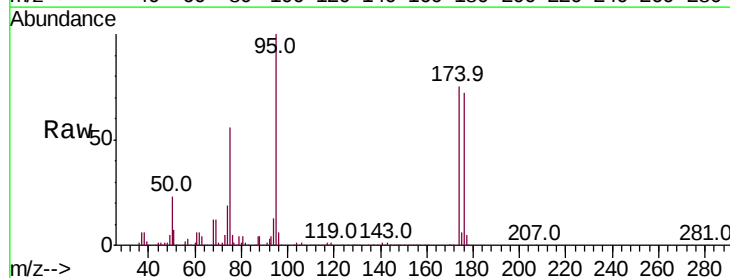
Acq: 9 Sep 2019 23:54

Tgt Ion: 75 Resp: 347320

Ion Ratio Lower Upper

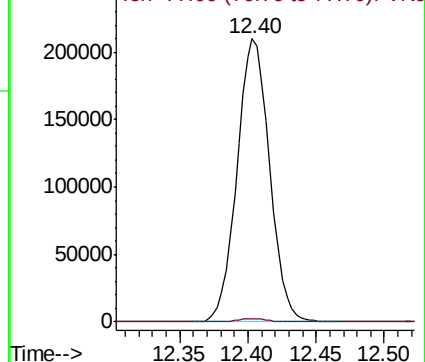
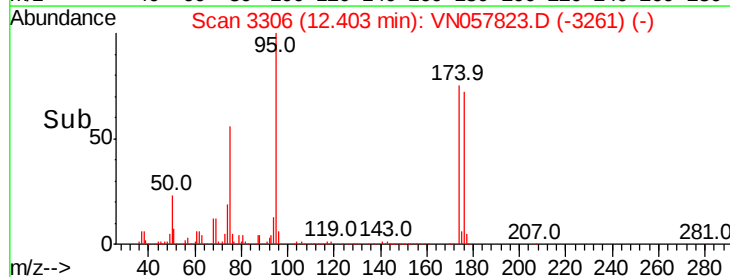
75 100

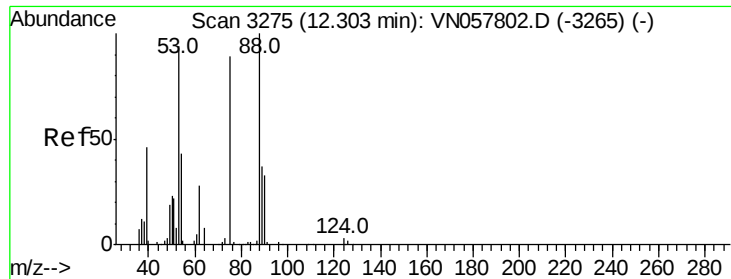
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-3349) (-)

Ion 77.00 (76.70 to 77.70): VN057802.D (-3349) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 215.023 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057823.D

Acq: 9 Sep 2019 23:54

Instrument :

MSVOA_N

ClientSampled :

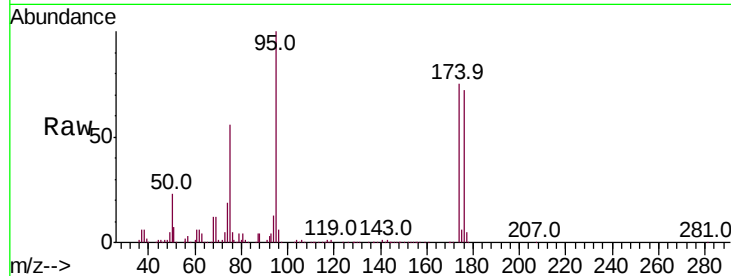
Tot Ion: 75 Resp: 347320

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

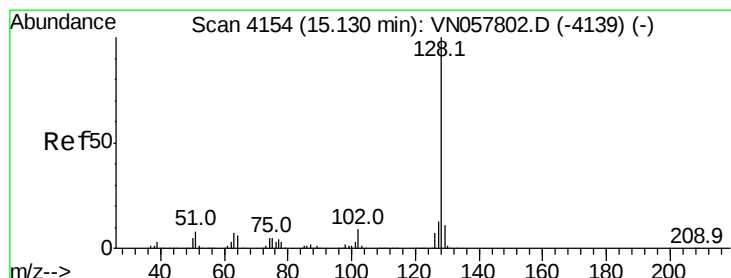
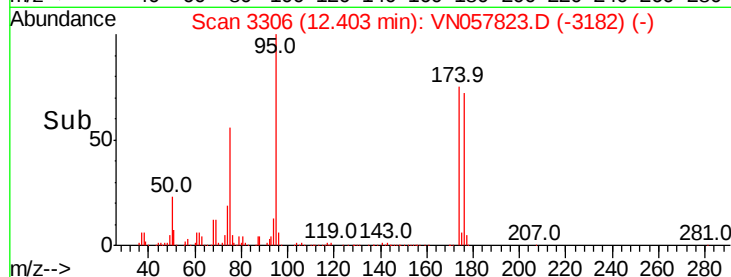
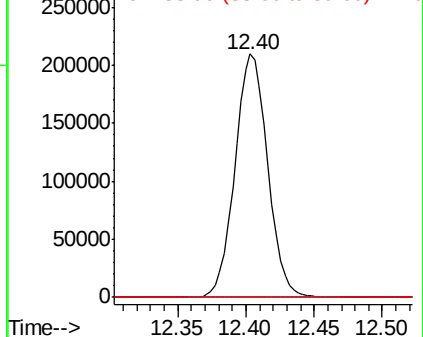
89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN057823.D

Acq: 9 Sep 2019 23:54

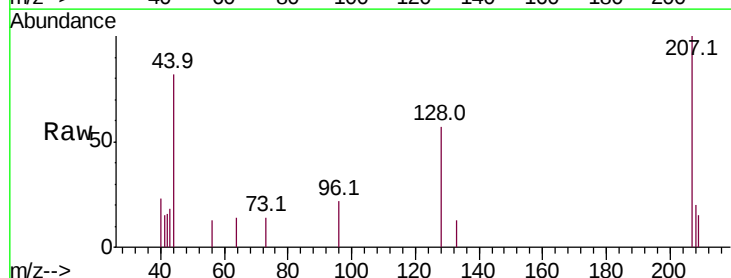
Tgt Ion: 128 Resp: 1400

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

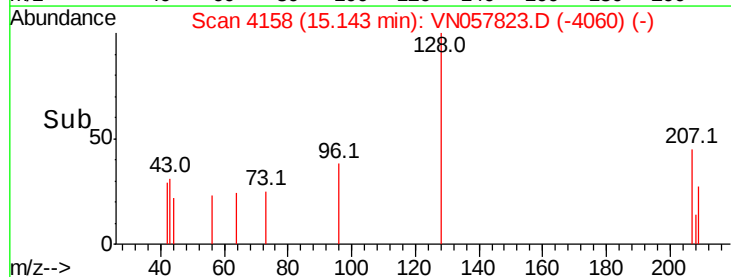
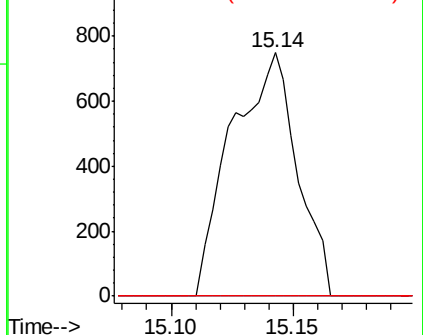
129 0.0 8.6 12.8#

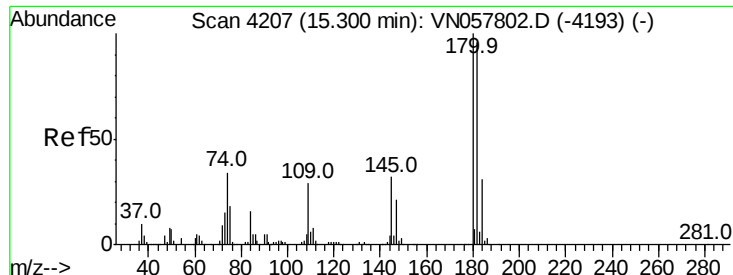


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 1.060 ug/l
 RT: 15.30 min Scan# 4208
 Delta R.T. 0.00 min
 Lab File: VN057823.D
 Acq: 9 Sep 2019 23:54

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	82.4	48.3	144.8
145	0.0	16.3	48.8#

