

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091019\
 Data File : VN057853.D
 Acq On : 10 Sep 2019 11:40
 Operator : JC/SP
 Sample : K4622-31
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 59 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

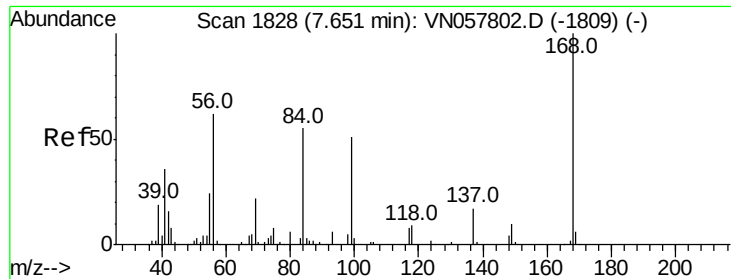
Quant Time: Sep 10 13:04:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	278600	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	500330	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	456197	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	230011	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	339368	60.14	ug/l	0.00
Spiked Amount						
35) Dibromofluoromethane	7.58	113	228943	49.58	ug/l	0.00
Spiked Amount						
50) Toluene-d8	10.08	98	910194	50.77	ug/l	0.00
Spiked Amount						
62) 4-Bromofluorobenzene	12.40	95	286837	41.98	ug/l	0.00
Spiked Amount						

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	148	Below Cal	#	80
16) Acetone	3.80	43	8698	4.702	ug/l	98
18) Methyl Acetate	4.32	43	9882	2.004	ug/l #	63
20) Methylene Chloride	4.53	84	8150	1.111	ug/l #	85
31) Cyclohexane	7.65	56	7734	Below Cal	#	23
36) 1,1-Dichloropropene	7.65	75	25214	4.345	ug/l #	51
38) Carbon Tetrachloride	7.65	117	29003	5.475	ug/l #	15
43) Isopropyl Acetate	8.16	43	101069	10.025	ug/l #	87
45) 1,2-Dichloropropane	9.26	63	1735	0.341	ug/l #	44
48) Methyl methacrylate	9.17	41	5683	1.111	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	6440	1.079	ug/l	96
54) cis-1,3-Dichloropropene	9.90	75	37678	5.283	ug/l #	64
56) Ethyl methacrylate	10.55	69	1771	0.252	ug/l #	1
57) 1,3-Dichloropropane	10.77	76	5676	0.707	ug/l #	43
59) 2-Hexanone	10.76	43	95748	21.412	ug/l #	53
71) Bromoform	12.39	173	524	0.203	ug/l #	1
74) N-amyl acetate	12.04	43	3843	0.495	ug/l #	49
76) 1,2,3-Trichloropropane	12.40	75	158385	30.440	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	158385	107.118	ug/l #	6
95) Naphthalene	15.13	128	523	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

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Instrument :

MSVOA_N

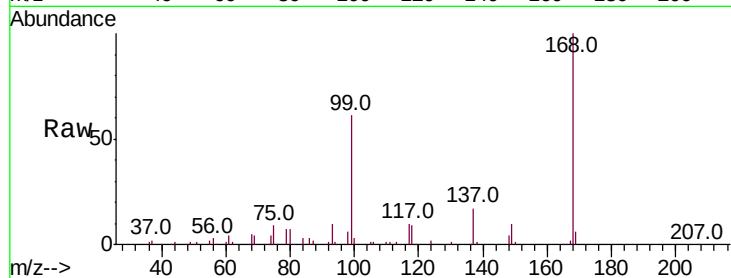
ClientSampled :

Tot Ion:168 Resp: 278600

Ion Ratio Lower Upper

168 100

99 61.1 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

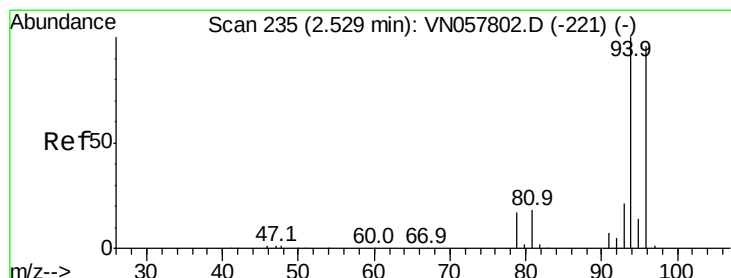
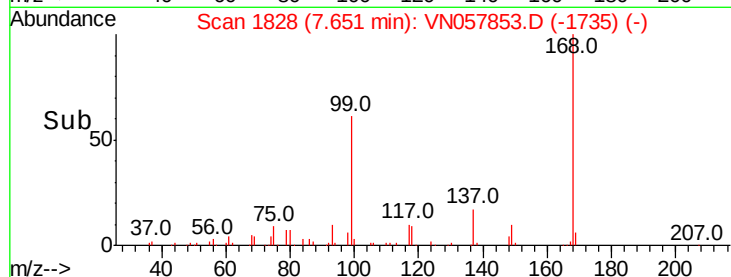
100000

50000

0

Time-->

7.60 7.70



#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 238

Delta R.T. 0.01 min

Lab File: VN057853.D

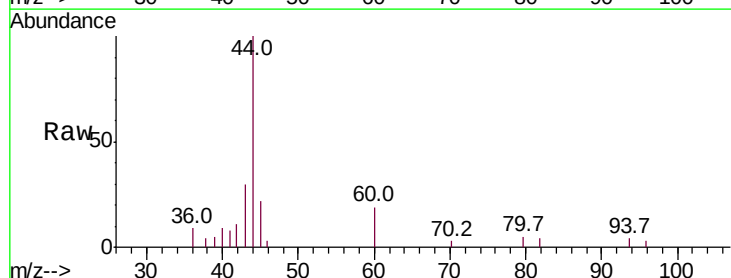
Acq: 10 Sep 2019 11:40

Tgt Ion: 94 Resp: 148

Ion Ratio Lower Upper

94 100

96 76.4 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

400

300

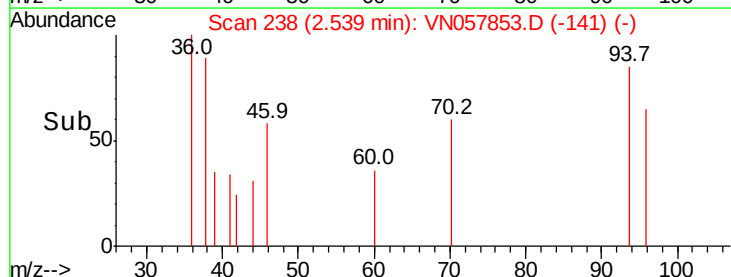
200

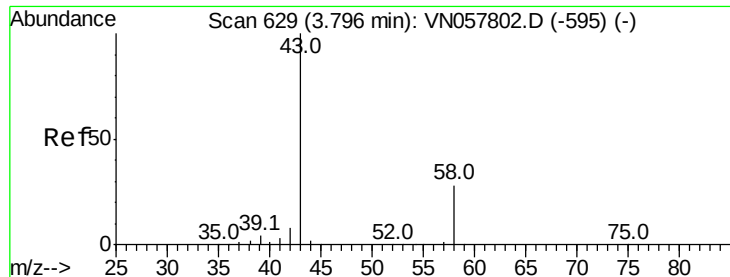
100

0

Time-->

2.53 2.54 2.55





#16

Acetone

Concen: 4.702 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN057853.D

Acq: 10 Sep 2019 11:40

Instrument :

MSVOA_N

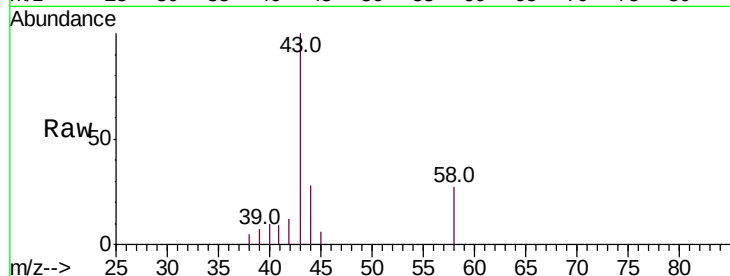
ClientSampleId :

Tot Ion: 43 Resp: 8698

Ion Ratio Lower Upper

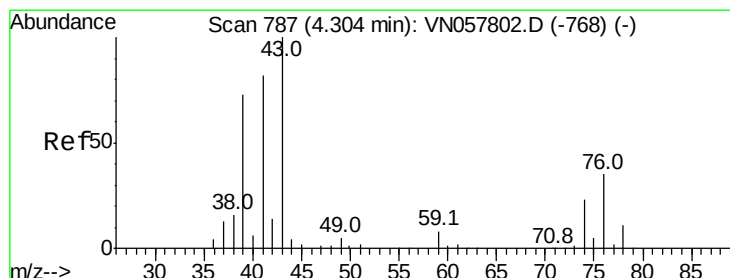
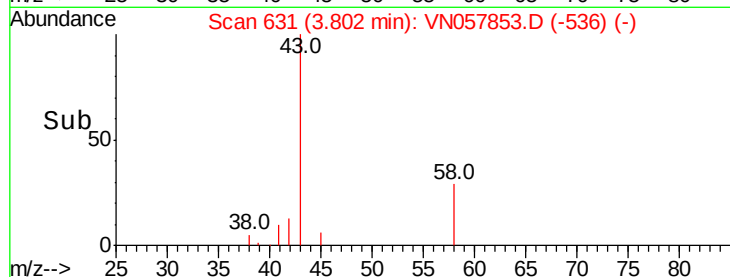
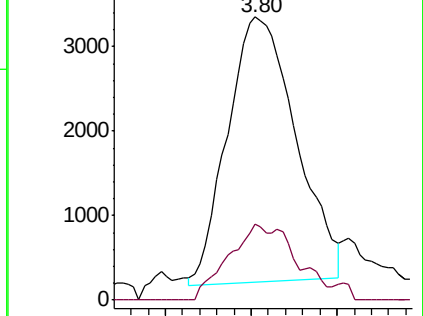
43 100

58 29.0 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 2.004 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.01 min

Lab File: VN057853.D

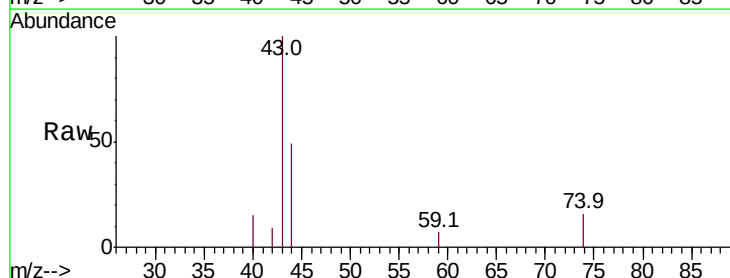
Acq: 10 Sep 2019 11:40

Tgt Ion: 43 Resp: 9882

Ion Ratio Lower Upper

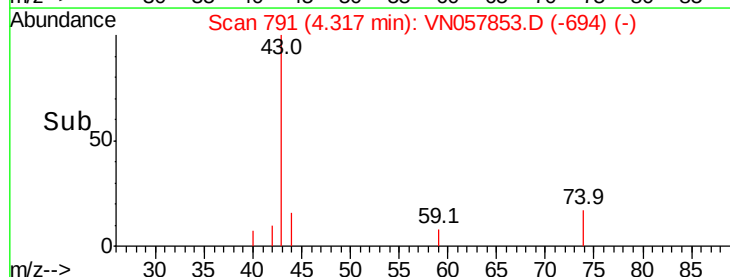
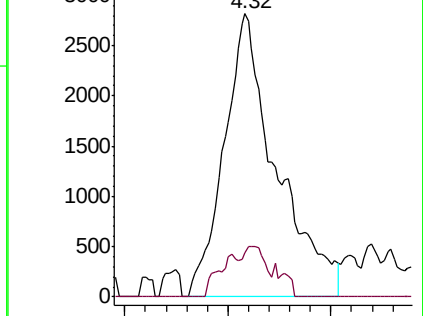
43 100

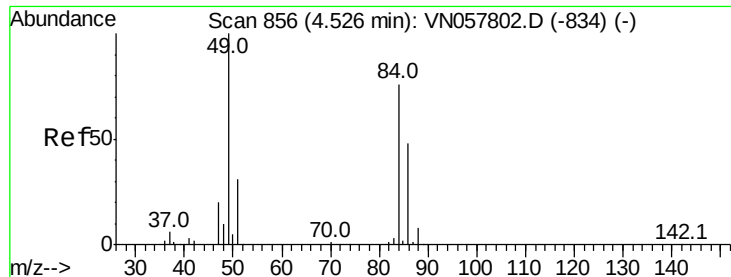
74 4.4 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

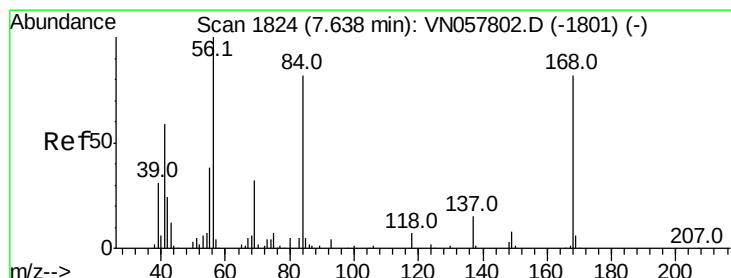
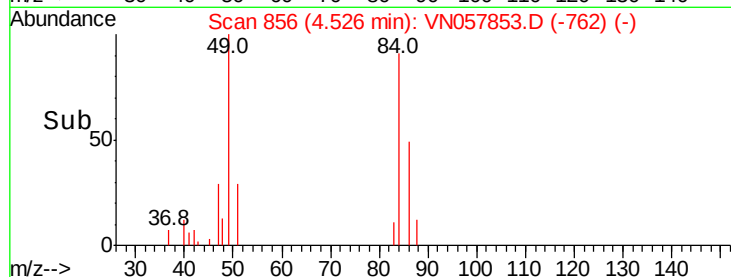
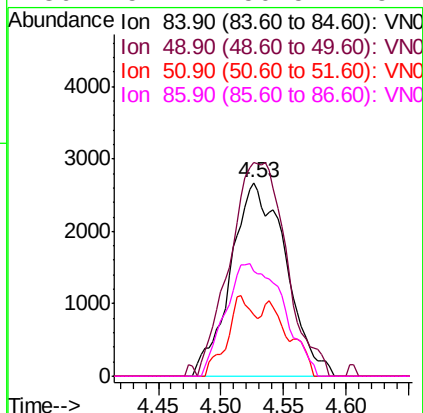
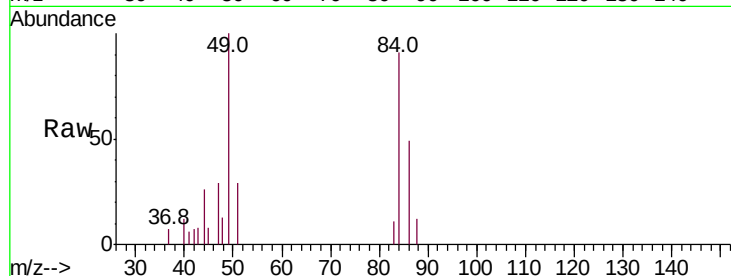




#20
Methylene Chloride
Concen: 1.111 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN057853.D
Acq: 10 Sep 2019 11:40

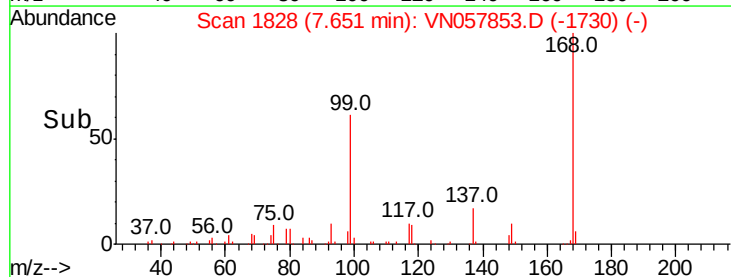
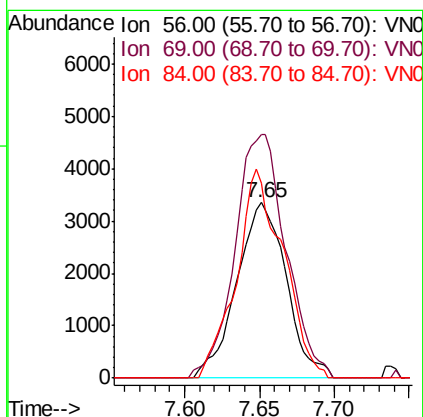
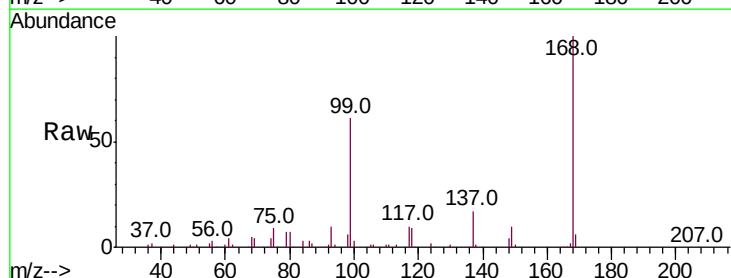
Instrument :
MSVOA_N
ClientSampleId :

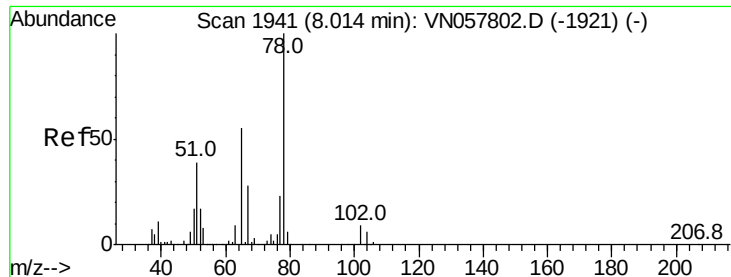
Tot Ion: 84 Resp: 8150
Ion Ratio Lower Upper
84 100
49 110.4 104.8 157.2
51 31.9 33.0 49.4#
86 54.2 50.5 75.7



#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1828
Delta R.T. 0.01 min
Lab File: VN057853.D
Acq: 10 Sep 2019 11:40

Tgt Ion: 56 Resp: 7734
Ion Ratio Lower Upper
56 100
69 138.5 25.9 38.9#
84 111.4 65.6 98.4#

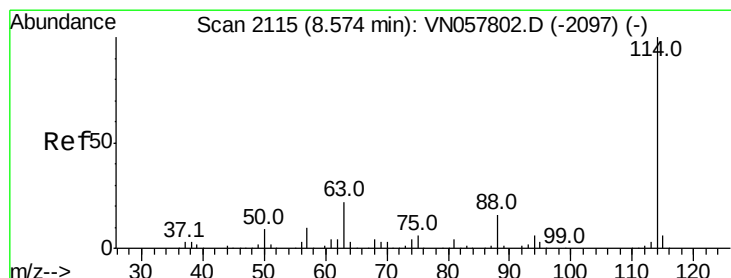
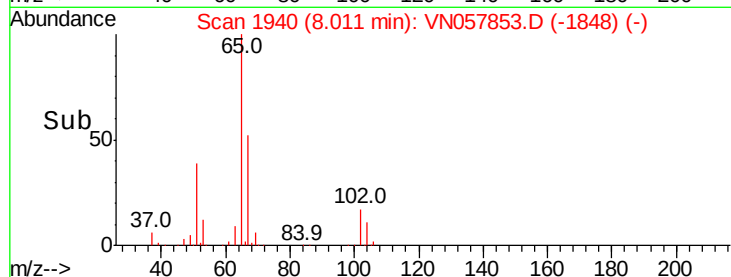
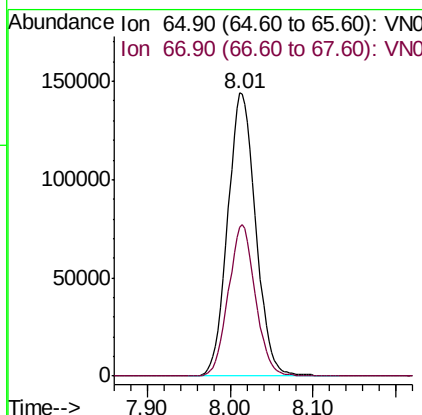
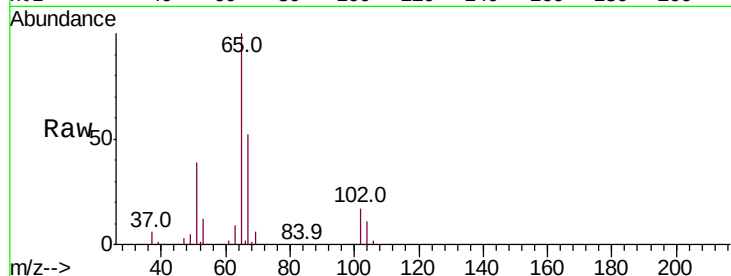




#33
 1,2-Dichloroethane-d4
 Concen: 60.142 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. -0.00 min
 Lab File: VN057853.D
 Acq: 10 Sep 2019 11:40

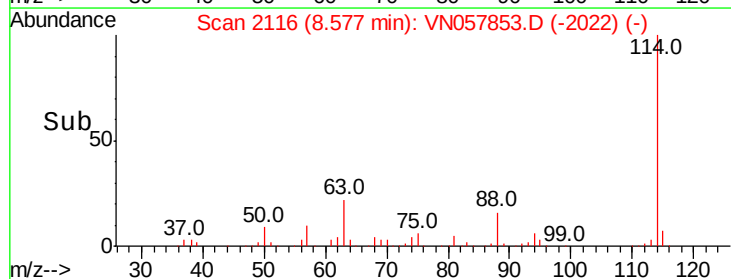
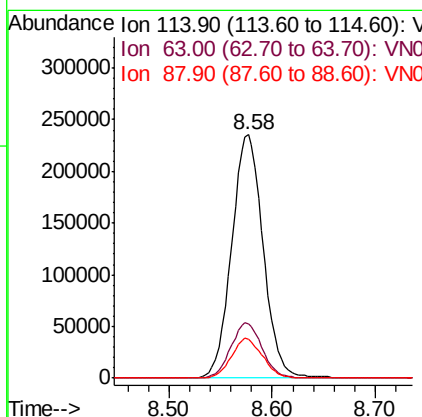
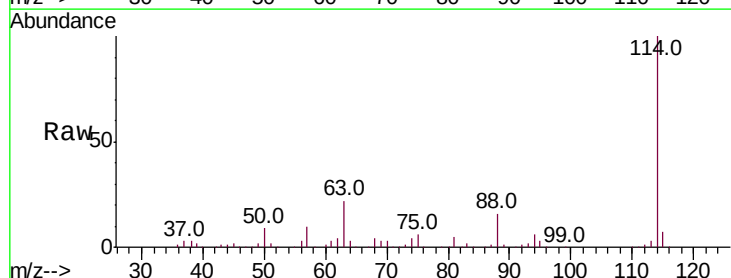
Instrument :
 MSVOA_N
 ClientSampleId :

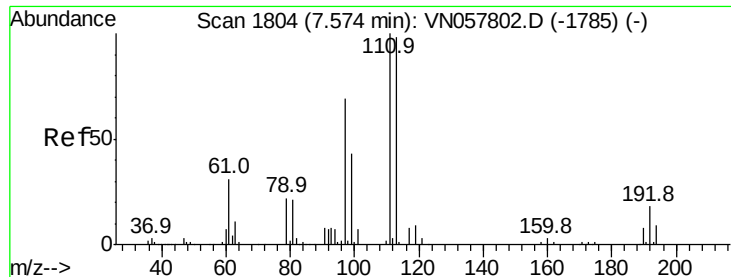
Tot Ion: 65 Resp: 339368
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057853.D
 Acq: 10 Sep 2019 11:40

Tgt Ion: 114 Resp: 500330
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 44.0
 88 16.0 0.0 31.4

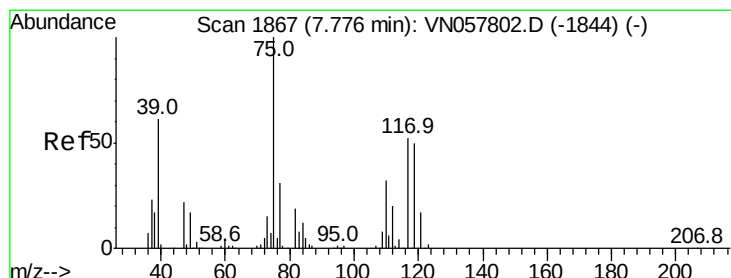
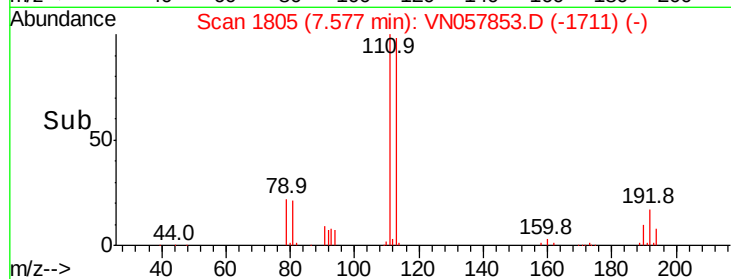
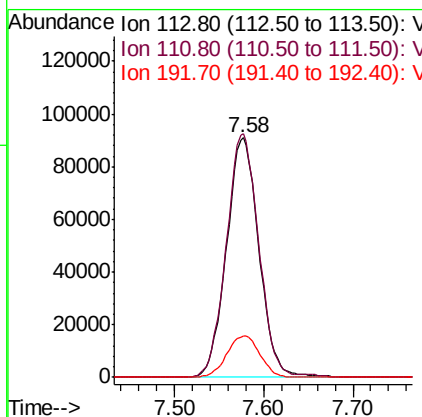
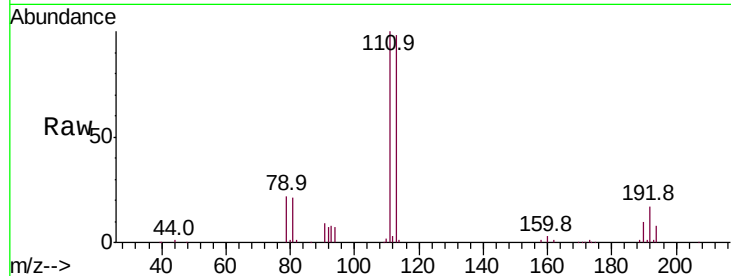




#35
 Dibromofluoromethane
 Concen: 49.578 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057853.D
 Acq: 10 Sep 2019 11:40

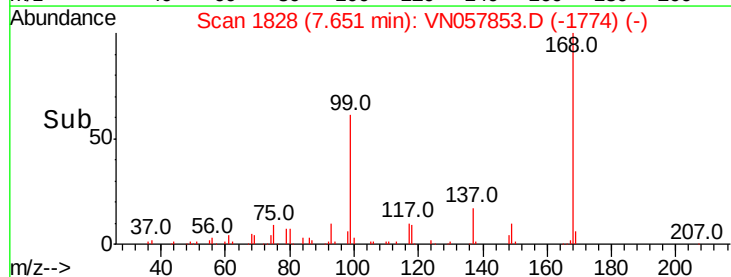
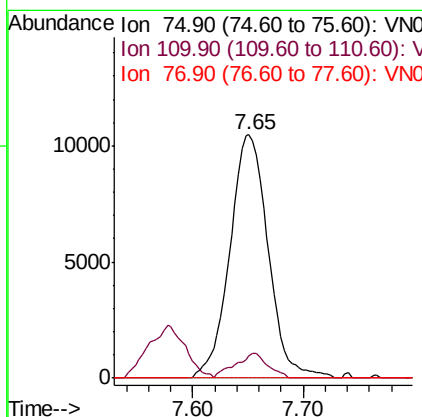
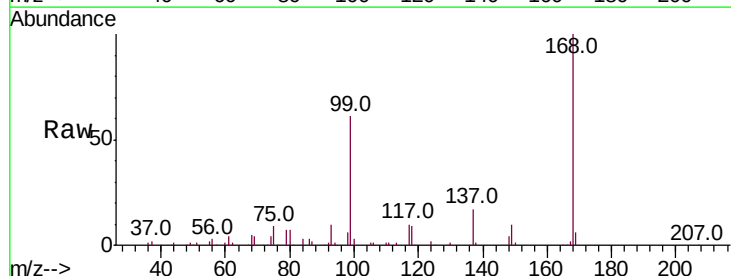
Instrument :
 MSVOA_N
 ClientSampleId :

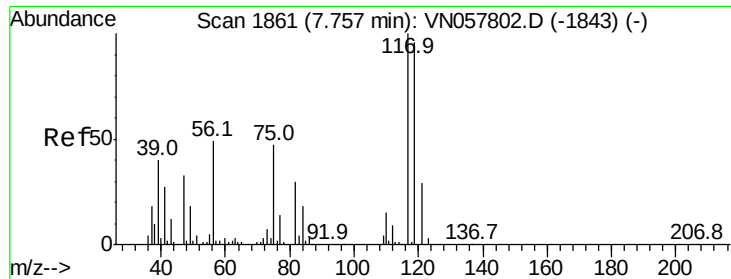
Tot Ion:113 Resp: 228943
 Ion Ratio Lower Upper
 113 100
 111 101.4 81.3 121.9
 192 17.7 14.6 22.0



#36
 1,1-Dichloropropene
 Concen: 4.345 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057853.D
 Acq: 10 Sep 2019 11:40

Tgt Ion: 75 Resp: 25214
 Ion Ratio Lower Upper
 75 100
 110 8.6 16.3 48.9#
 77 0.0 25.0 37.4#

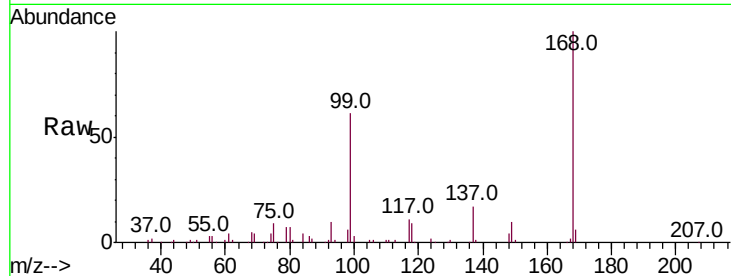




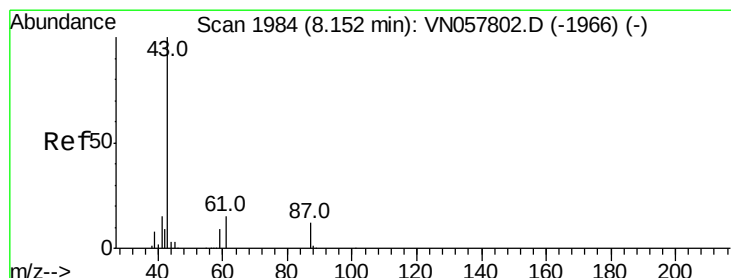
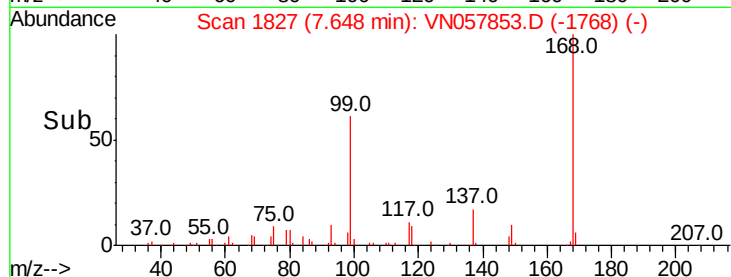
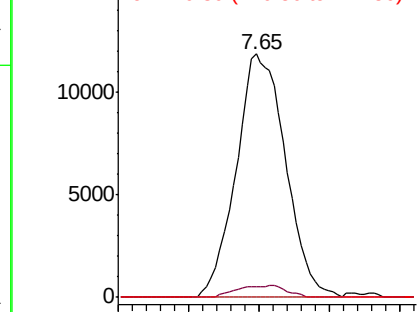
#38
Carbon Tetrachloride
Concen: 5.475 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.11 min
Lab File: VN057853.D
Acq: 10 Sep 2019 11:40

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 29003
Ion Ratio Lower Upper
117 100
119 4.4 76.9 115.3#
121 0.0 23.4 35.2#

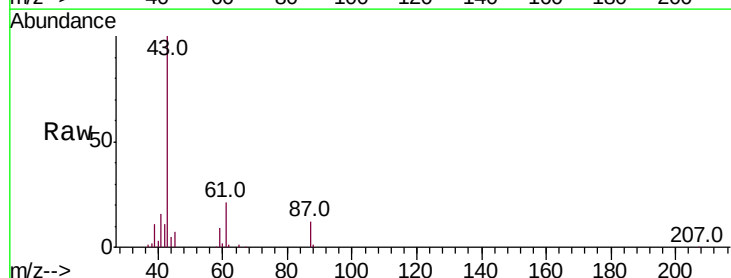


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

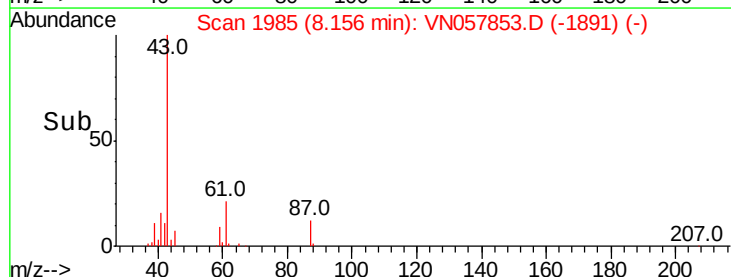
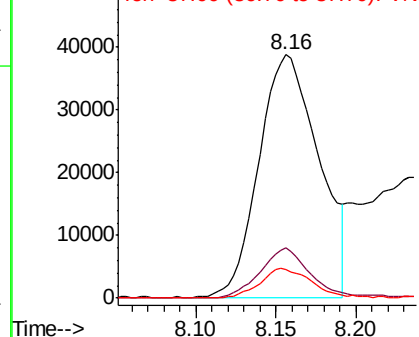


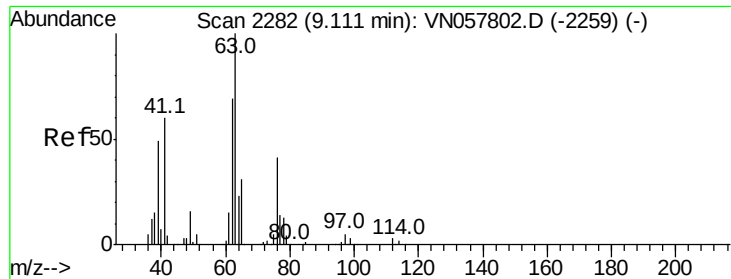
#43
Isopropyl Acetate
Concen: 10.025 ug/l
RT: 8.16 min Scan# 1985
Delta R.T. 0.00 min
Lab File: VN057853.D
Acq: 10 Sep 2019 11:40

Tgt Ion: 43 Resp: 101069
Ion Ratio Lower Upper
43 100
61 16.8 20.1 30.1#
87 10.3 9.5 14.3



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.341 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.15 min

Lab File: VN057853.D

Acq: 10 Sep 2019 11:40

Instrument :

MSVOA_N

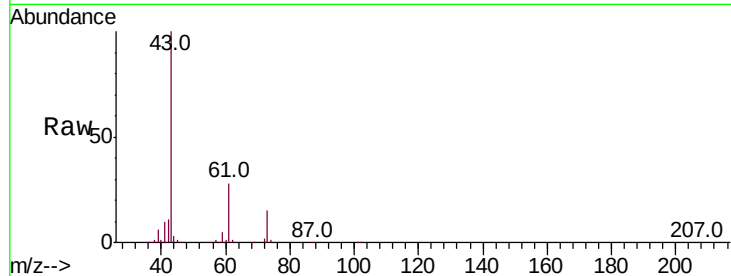
ClientSampleId :

Tot Ion: 63 Resp: 1735

Ion Ratio Lower Upper

63 100

65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO

1200

1000

800

600

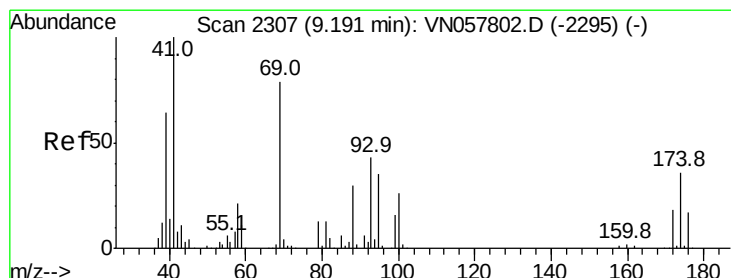
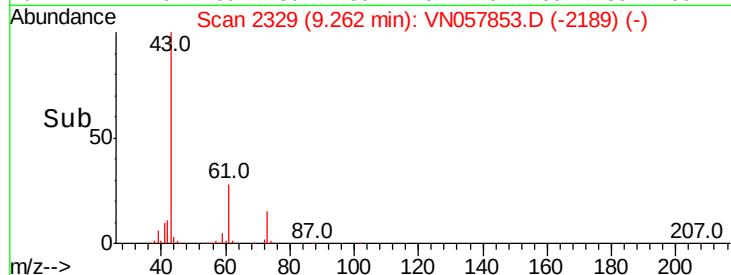
400

200

0

9.25 9.30

Time-->



#48

Methyl methacrylate

Concen: 1.111 ug/l

RT: 9.17 min Scan# 2301

Delta R.T. -0.02 min

Lab File: VN057853.D

Acq: 10 Sep 2019 11:40

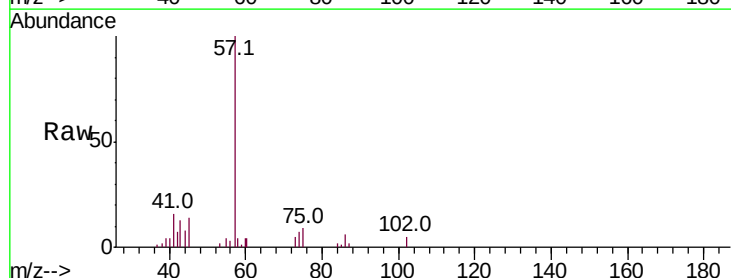
Tgt Ion: 41 Resp: 5683

Ion Ratio Lower Upper

41 100

69 0.0 62.7 94.1#

39 0.0 52.7 79.1#



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

100000

80000

60000

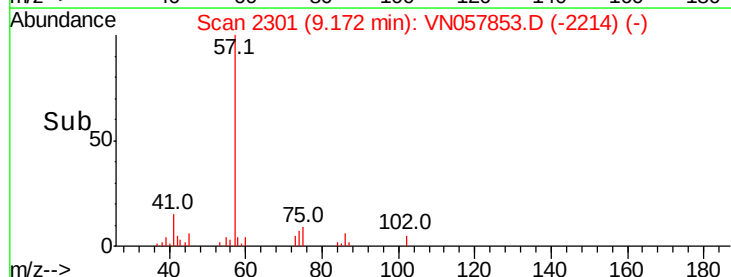
40000

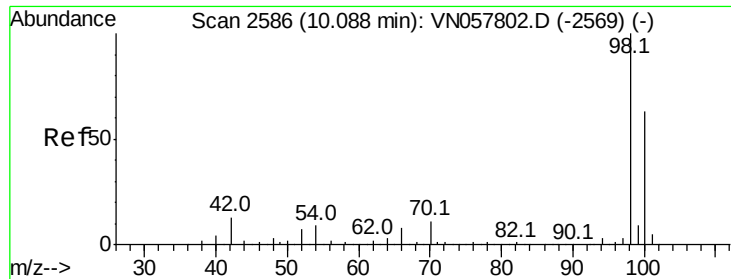
20000

0

9.10 9.15 9.20

Time-->





#50

Toluene-d8

Concen: 50.767 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN057853.D

Acq: 10 Sep 2019 11:40

Instrument :

MSVOA_N

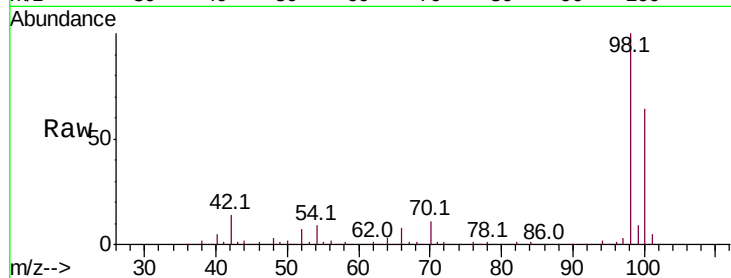
ClientSampled :

Tot Ion: 98 Resp: 910194

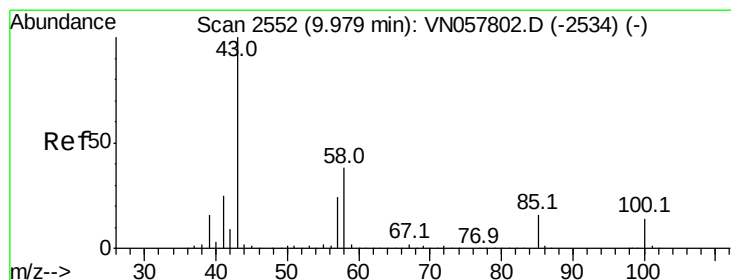
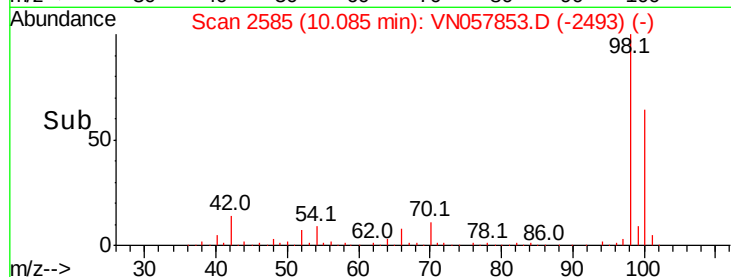
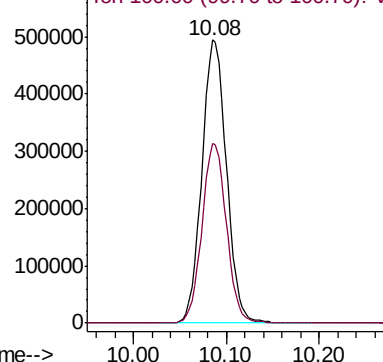
Ion Ratio Lower Upper

98 100

100 63.2 50.3 75.5



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



#51

4-Methyl-2-Pentanone

Concen: 1.079 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057853.D

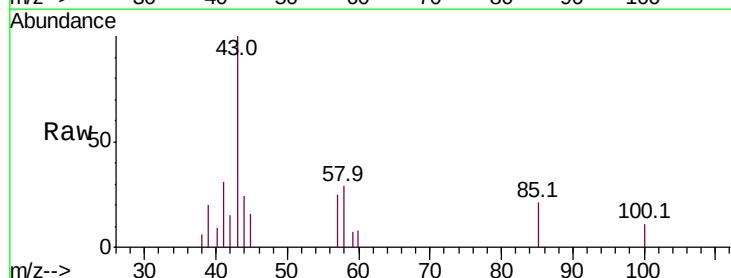
Acq: 10 Sep 2019 11:40

Tgt Ion: 43 Resp: 6440

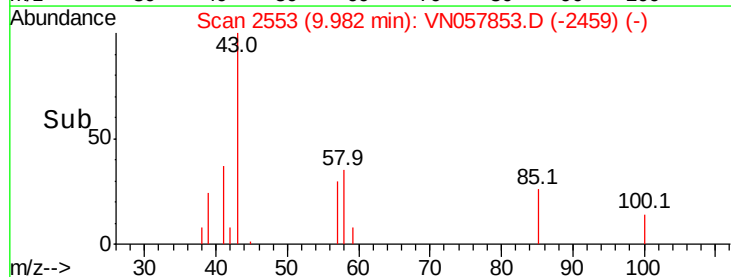
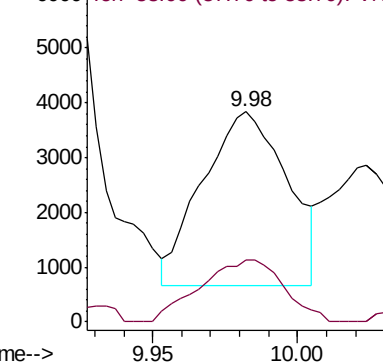
Ion Ratio Lower Upper

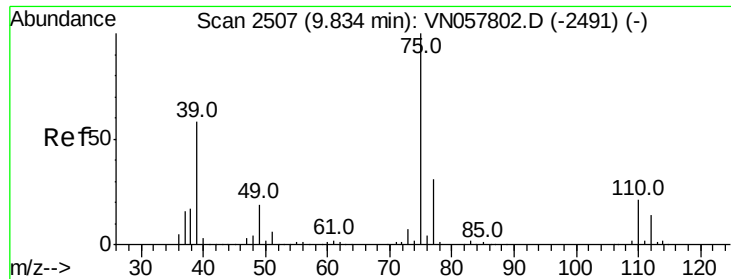
43 100

58 35.0 29.8 44.6



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





#54

cis-1,3-Dichloropropene

Concen: 5.283 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057853.D

Acq: 10 Sep 2019 11:40

Instrument :

MSVOA_N

ClientSampled :

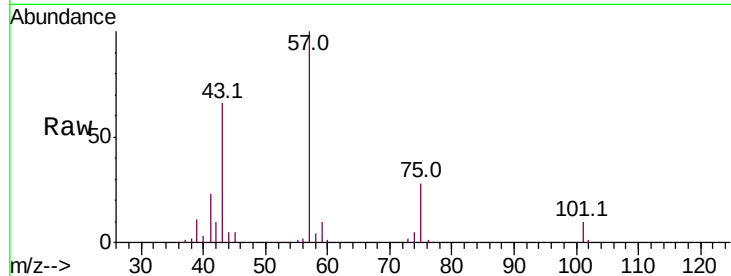
Tot Ion: 75 Resp: 37678

Ion Ratio Lower Upper

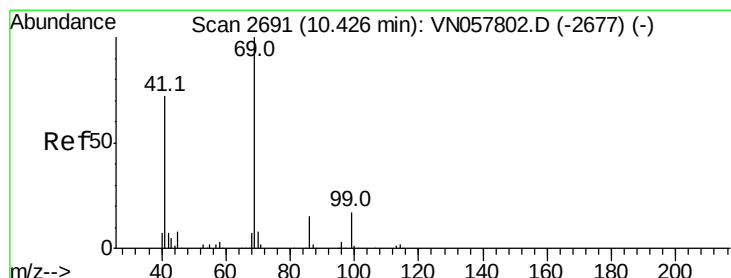
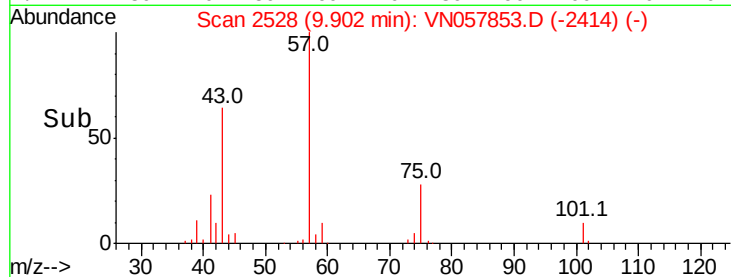
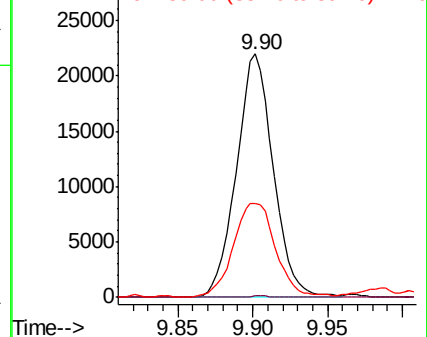
75 100

77 0.7 24.8 37.2#

39 38.6 46.2 69.4#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 76.90 (76.60 to 77.60): VNO
Ion 39.00 (38.70 to 39.70): VNO



#56

Ethyl methacrylate

Concen: 0.252 ug/l

RT: 10.55 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN057853.D

Acq: 10 Sep 2019 11:40

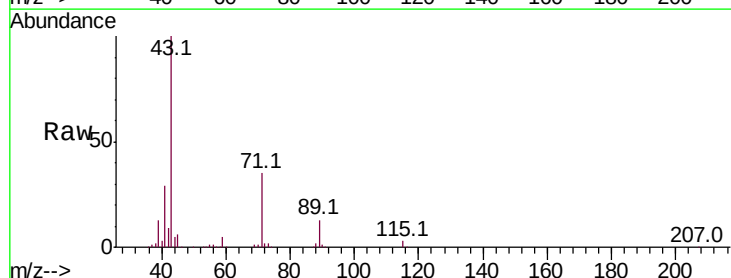
Tgt Ion: 69 Resp: 1771

Ion Ratio Lower Upper

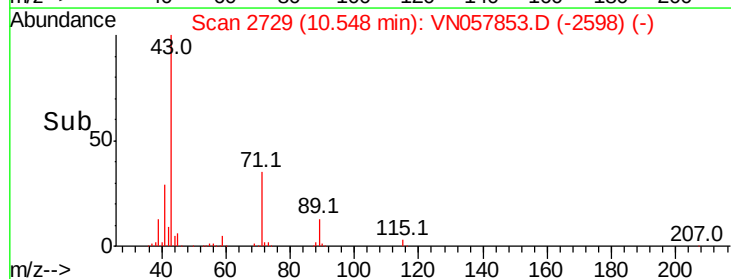
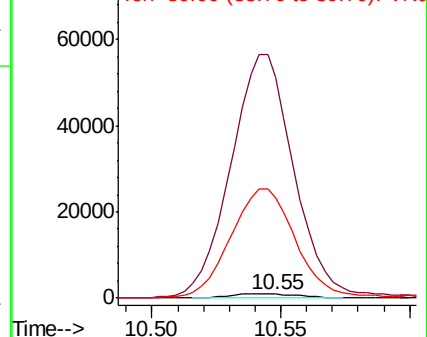
69 100

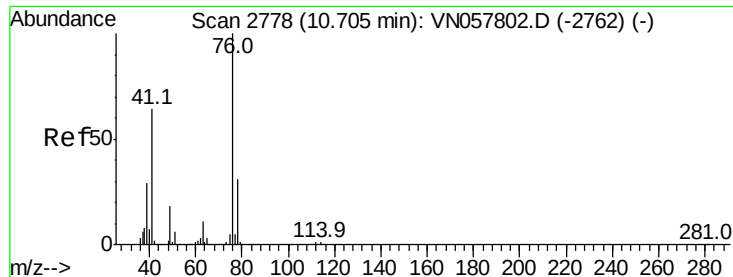
41 5513.1 56.7 85.1#

39 2532.9 36.3 54.5#



Abundance Ion 69.00 (68.70 to 69.70): VNO
Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





#57

1,3-Dichloropropane

Concen: 0.707 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN057853.D

Acq: 10 Sep 2019 11:40

Instrument :

MSVOA_N

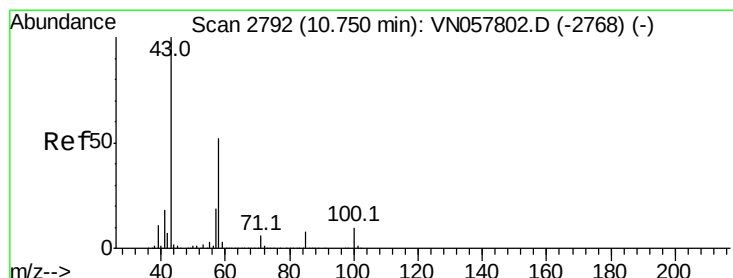
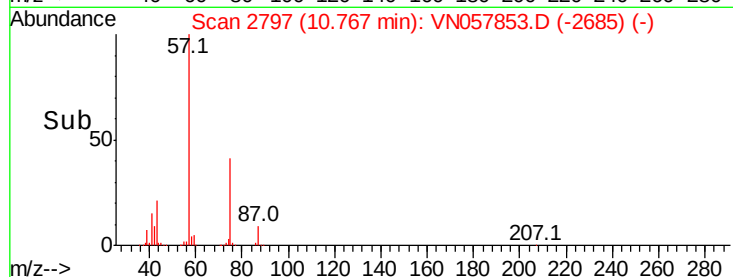
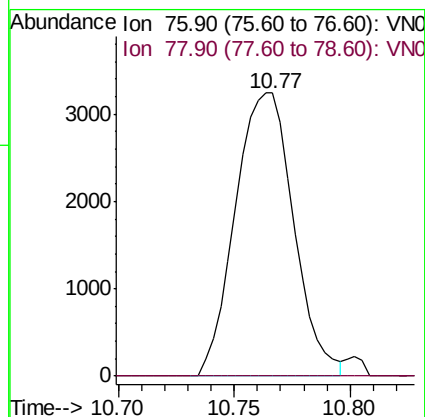
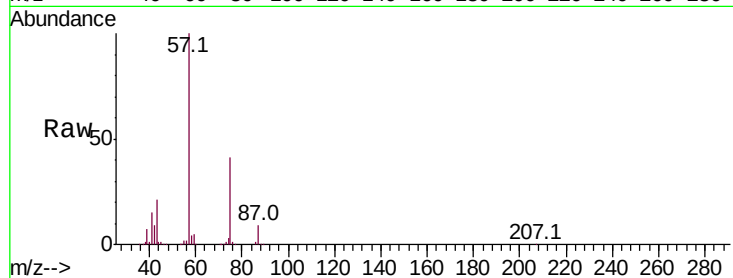
ClientSampled :

Tot Ion: 76 Resp: 5676

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#



#59

2-Hexanone

Concen: 21.412 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN057853.D

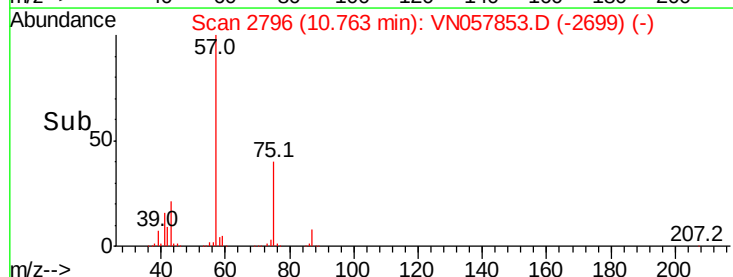
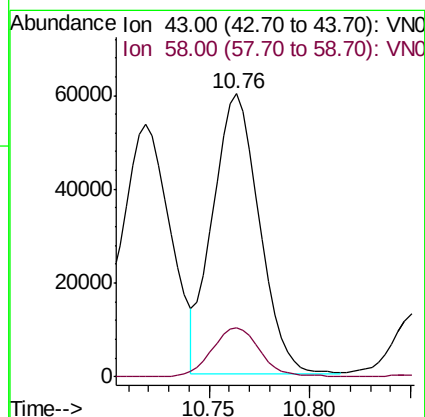
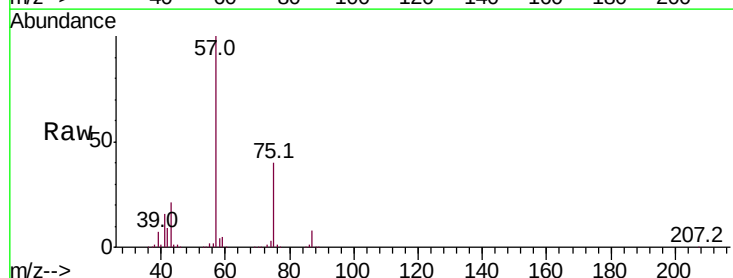
Acq: 10 Sep 2019 11:40

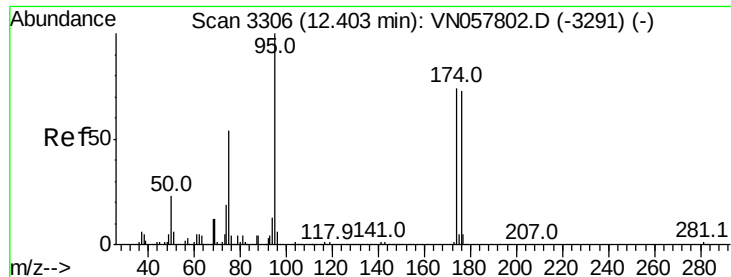
Tgt Ion: 43 Resp: 95748

Ion Ratio Lower Upper

43 100

58 18.3 25.6 76.8#





#62

4-Bromofluorobenzene

Concen: 41.981 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057853.D

Acq: 10 Sep 2019 11:40

Instrument :

MSVOA_N

ClientSampleId :

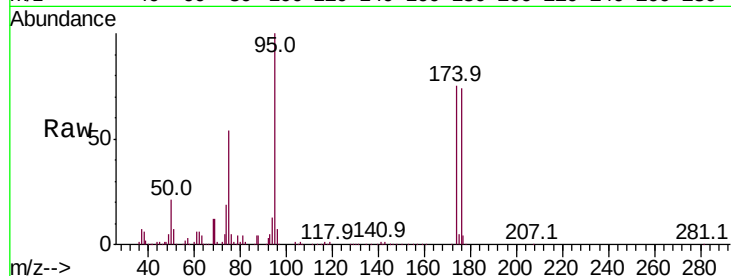
Tot Ion: 95 Resp: 286837

Ion Ratio Lower Upper

95 100

174 75.9 0.0 150.2

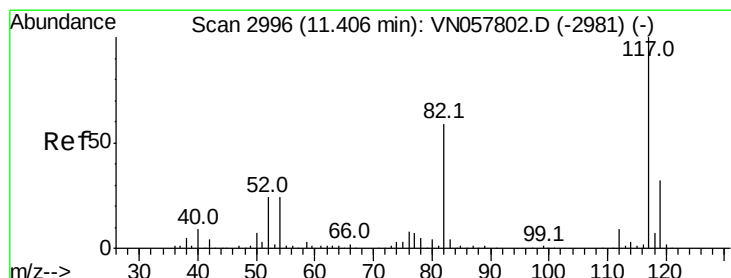
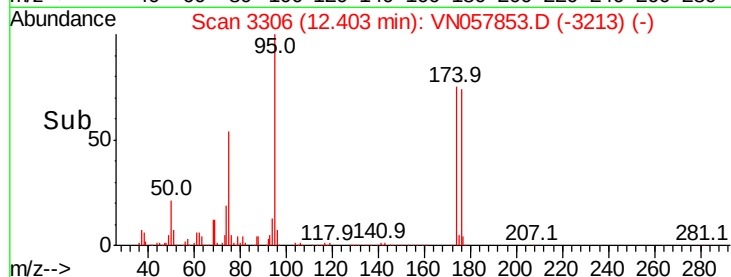
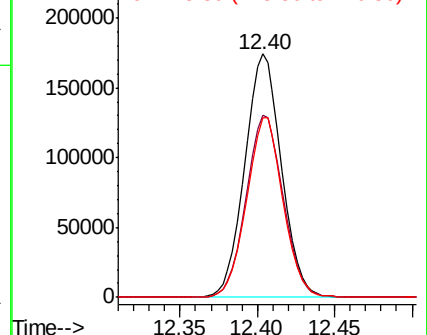
176 73.6 0.0 146.0



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) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057853.D

Acq: 10 Sep 2019 11:40

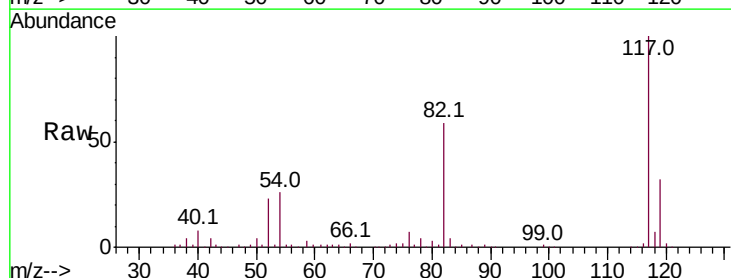
Tgt Ion: 117 Resp: 456197

Ion Ratio Lower Upper

117 100

82 58.6 47.2 70.8

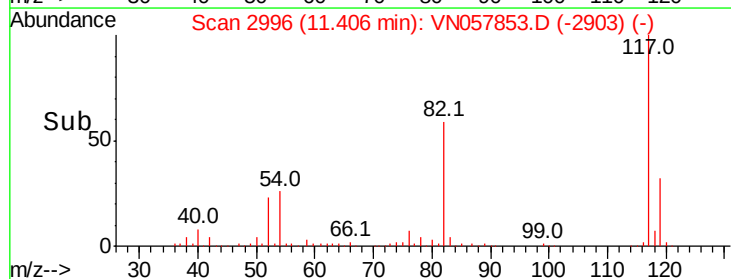
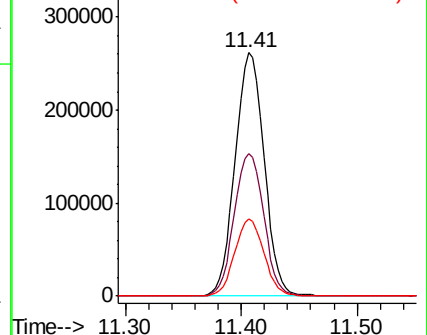
119 31.5 25.3 37.9

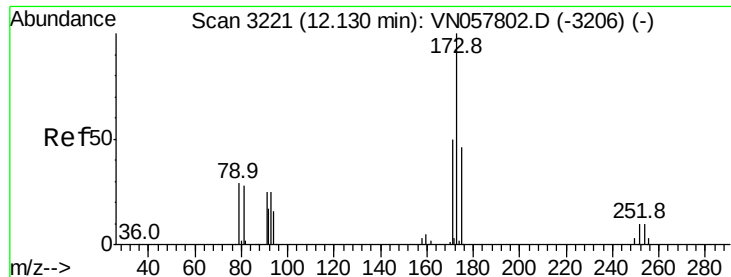


Abundance Ion 116.90 (116.60 to 117.60): VN057802.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN057802.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN057802.D (-2981) (-)





#71

Bromoform

Concen: 0.203 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.26 min

Lab File: VN057853.D

Acq: 10 Sep 2019 11:40

Instrument :

MSVOA_N

ClientSampled :

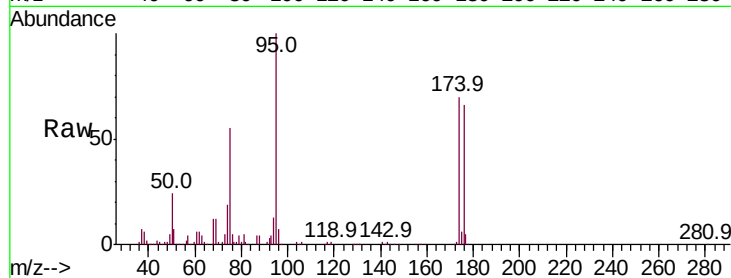
Tot Ion:173 Resp: 524

Ion Ratio Lower Upper

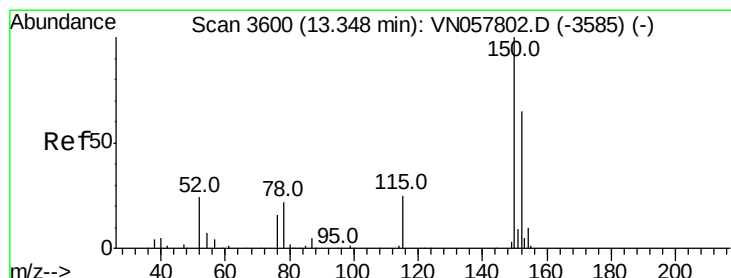
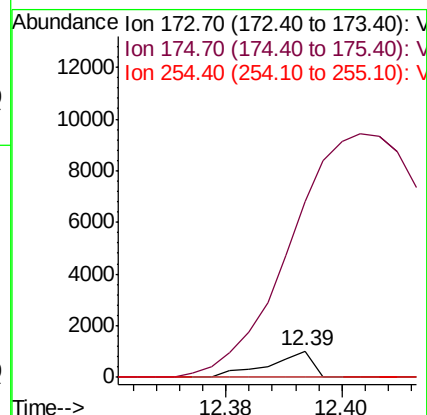
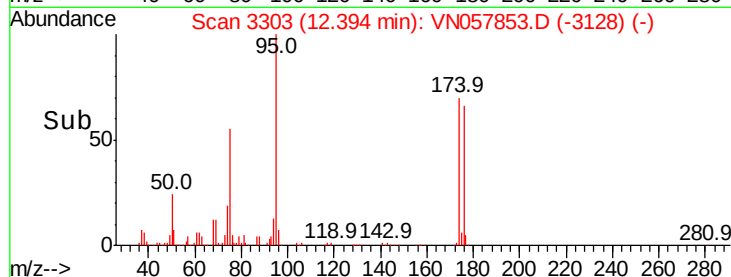
173 100

175 2787.0 23.5 70.6#

254 0.0 0.1 0.1#



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057853.D

Acq: 10 Sep 2019 11:40

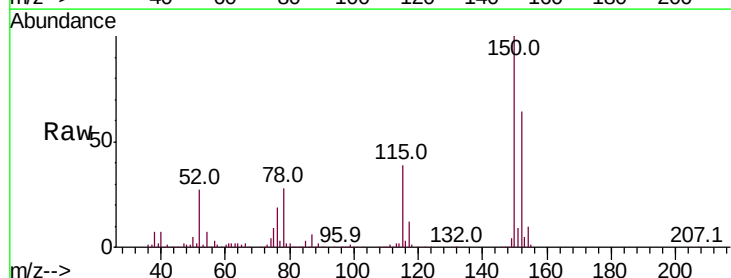
Tgt Ion:152 Resp: 230011

Ion Ratio Lower Upper

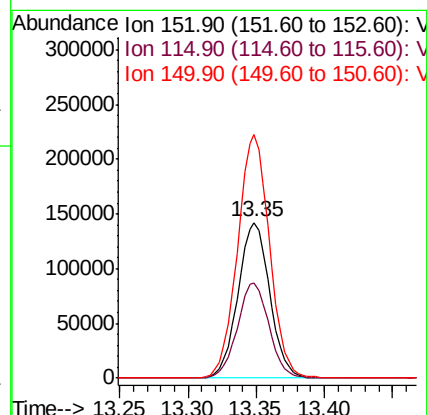
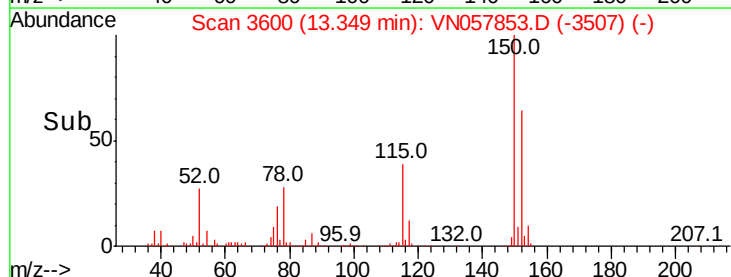
152 100

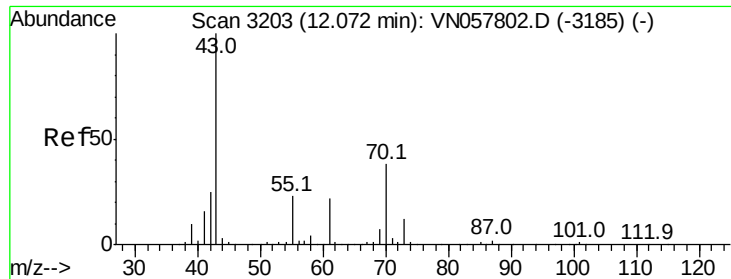
115 60.8 30.3 91.0

150 157.3 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: 0.495 ug/l

RT: 12.04 min Scan# 3193

Delta R.T. -0.03 min

Lab File: VN057853.D

Acq: 10 Sep 2019 11:40

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 3843

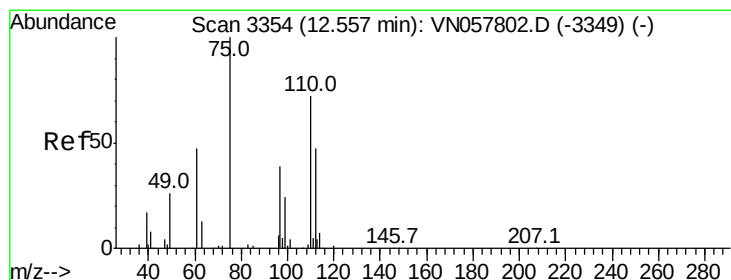
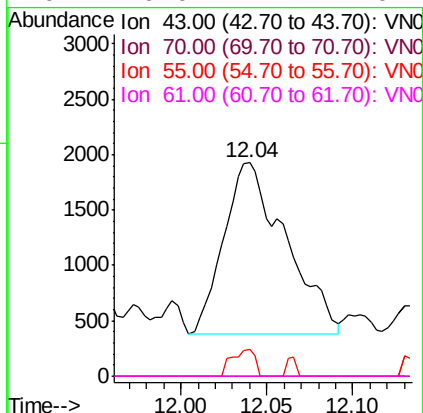
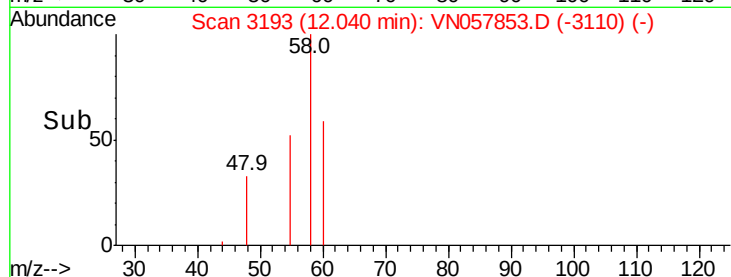
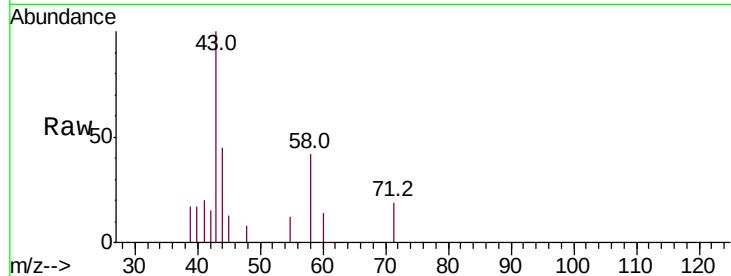
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 5.9 18.6 27.8#

61 0.0 17.4 26.2#



#76

1,2,3-Trichloropropane

Concen: 30.440 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057853.D

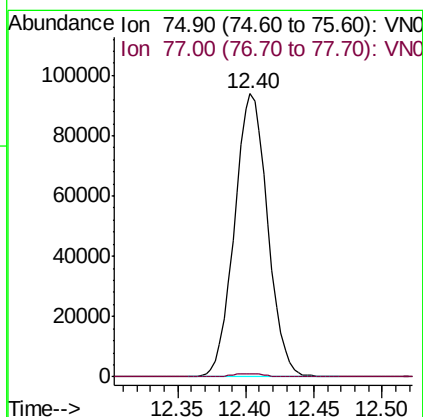
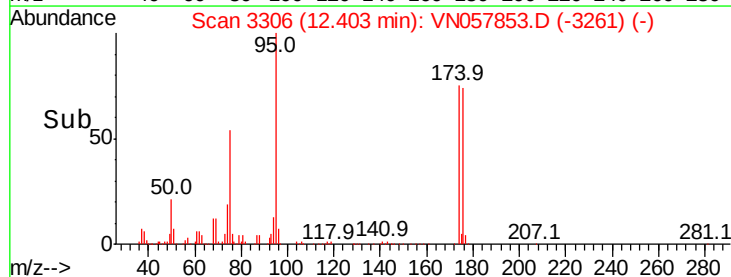
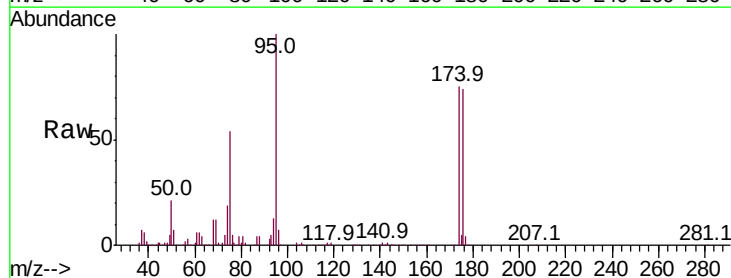
Acq: 10 Sep 2019 11:40

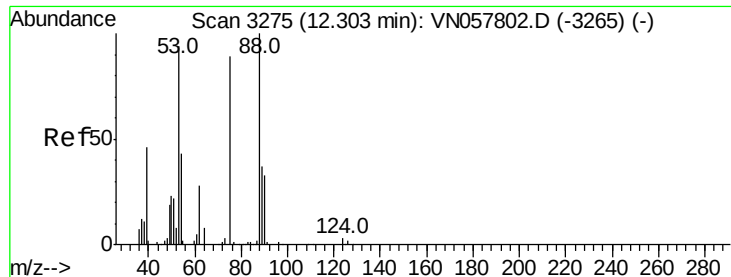
Tgt Ion: 75 Resp: 158385

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 107.118 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057853.D

Acq: 10 Sep 2019 11:40

Instrument :

MSVOA_N

ClientSampleId :

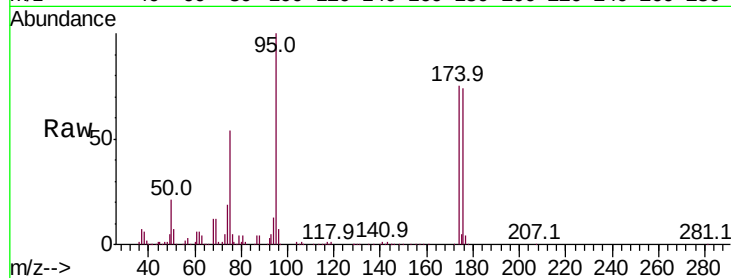
Tot Ion: 75 Resp: 158385

Ion Ratio Lower Upper

75 100

53 0.1 88.4 132.6#

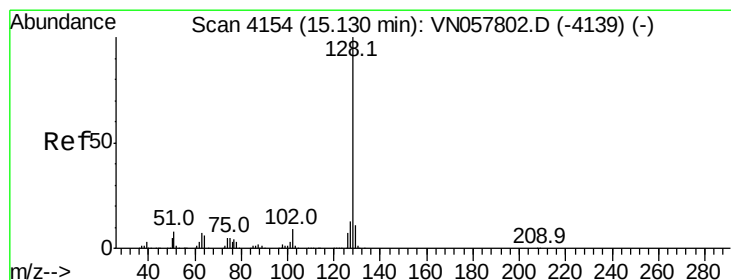
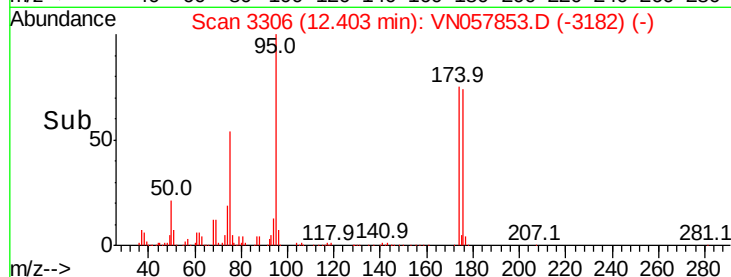
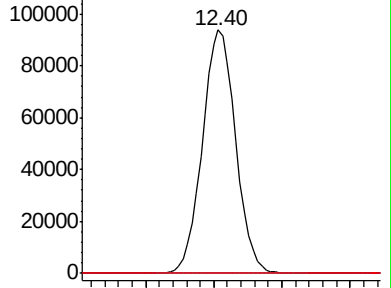
89 0.0 35.3 52.9#



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: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN057853.D

Acq: 10 Sep 2019 11:40

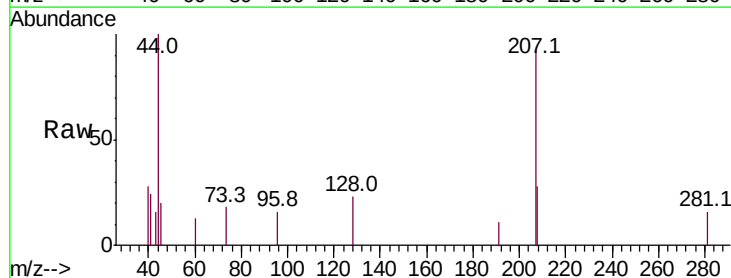
Tgt Ion: 128 Resp: 523

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) (-)

