

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012420\
 Data File : VN059855.D
 Acq On : 24 Jan 2020 19:01
 Operator : JC/MD
 Sample : PB126303ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 25 00:30:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	203176	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	308643	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	276676	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	117705	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	107795	47.77	ug/l	0.00
Spiked Amount			Recovery	=	95.54%	
35) Dibromofluoromethane	7.57	113	93275	50.68	ug/l	0.00
Spiked Amount			Recovery	=	101.36%	
50) Toluene-d8	10.08	98	367503	51.53	ug/l	0.00
Spiked Amount			Recovery	=	103.06%	
62) 4-Bromofluorobenzene	12.40	95	121569	47.29	ug/l	0.00
Spiked Amount			Recovery	=	94.58%	

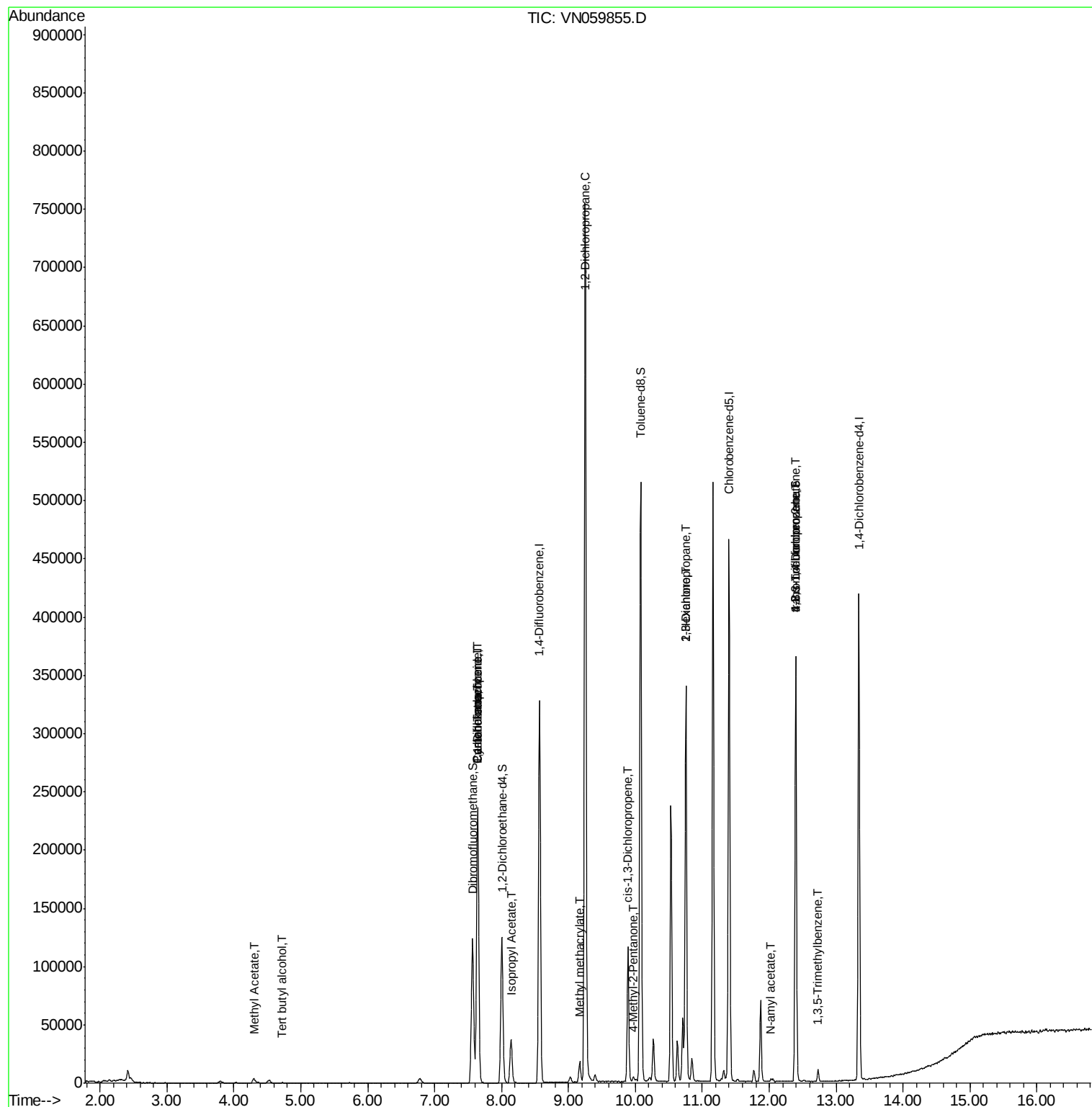
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	142	0.374	ug/l #	72
16) Acetone	3.79	43	3090	Below Cal		98
18) Methyl Acetate	4.30	43	6948	2.636	ug/l #	84
20) Methylene Chloride	4.52	84	2116	Below Cal	#	75
31) Cyclohexane	7.64	56	3673	1.100	ug/l #	10
36) 1,1-Dichloropropene	7.64	75	13897	5.170	ug/l #	50
38) Carbon Tetrachloride	7.64	117	19108	6.535	ug/l #	15
43) Isopropyl Acetate	8.14	43	45460	10.484	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1002	0.505	ug/l #	44
48) Methyl methacrylate	9.17	41	2515	1.297	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	2579	1.029	ug/l	95
54) cis-1,3-Dichloropropene	9.89	75	21641	6.533	ug/l #	57
57) 1,3-Dichloropropane	10.75	76	3581	1.125	ug/l #	42
59) 2-Hexanone	10.75	43	46490	25.176	ug/l #	54
74) N-amyl acetate	12.03	43	1807	0.539	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	61445	31.019	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	5842	0.805	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	61445	66.614	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.26	75	96	Below Cal	#	6

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

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QLast Update : Sat Jan 18 03:09:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059855.D

Acq: 24 Jan 2020 19:01

Instrument :

MSVOA_N

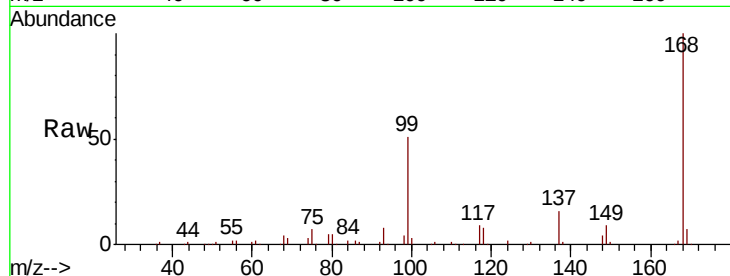
ClientSampleId :

Tot Ion:168 Resp: 203176

Ion Ratio Lower Upper

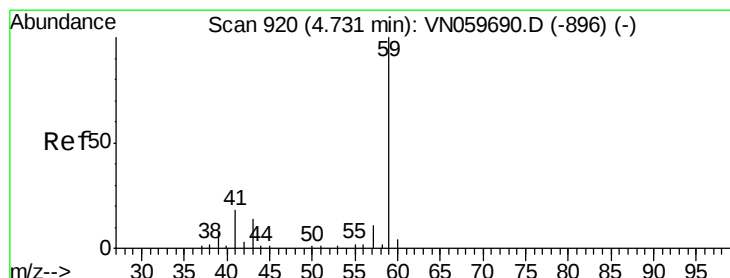
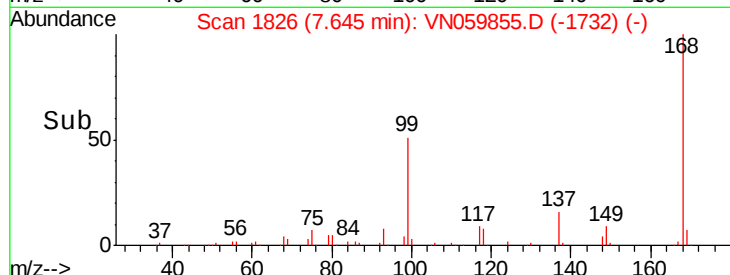
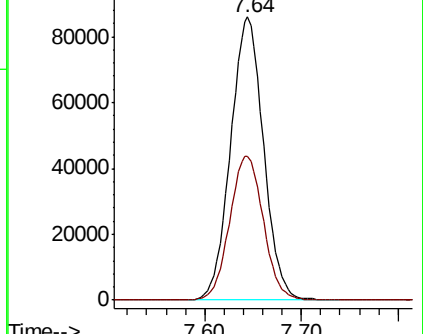
168 100

99 50.9 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 0.374 ug/l

RT: 4.73 min Scan# 918

Delta R.T. -0.01 min

Lab File: VN059855.D

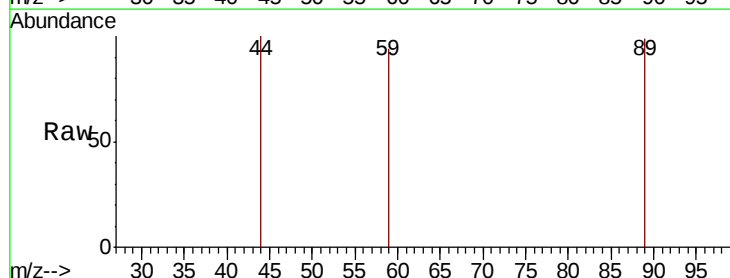
Acq: 24 Jan 2020 19:01

Tgt Ion: 59 Resp: 142

Ion Ratio Lower Upper

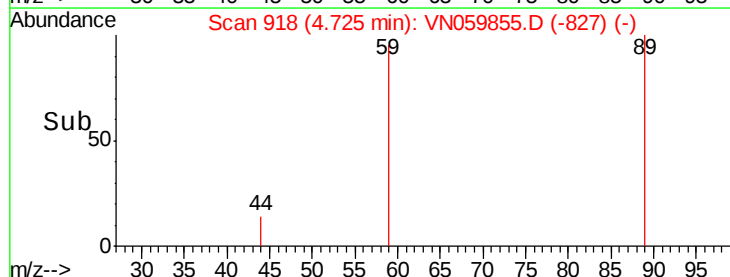
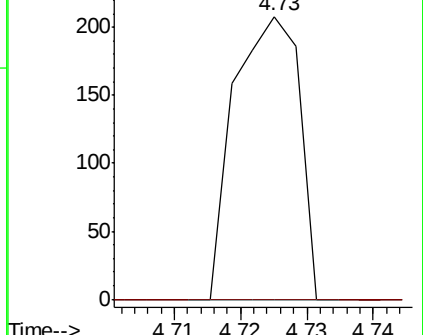
59 100

57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN059855.D

Acq: 24 Jan 2020 19:01

Instrument :

MSVOA_N

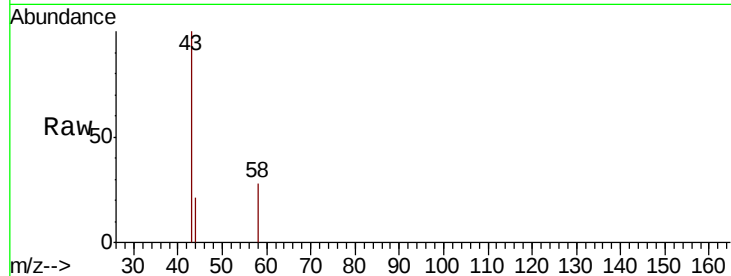
ClientSampled :

Tot Ion: 43 Resp: 3090

Ion Ratio Lower Upper

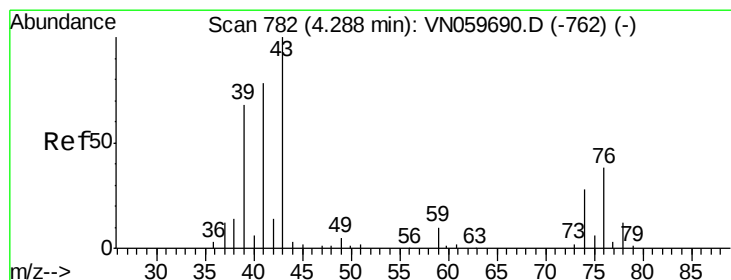
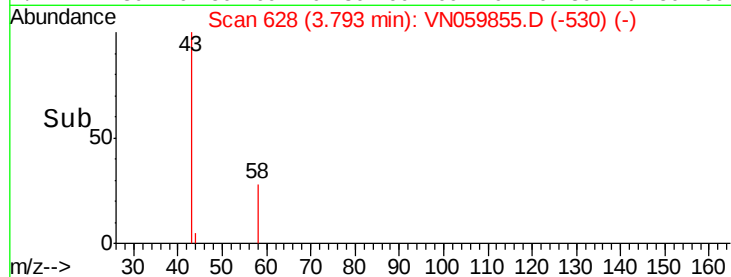
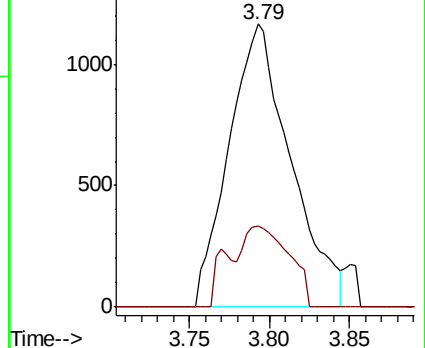
43 100

58 28.5 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 2.636 ug/l

RT: 4.30 min Scan# 785

Delta R.T. 0.01 min

Lab File: VN059855.D

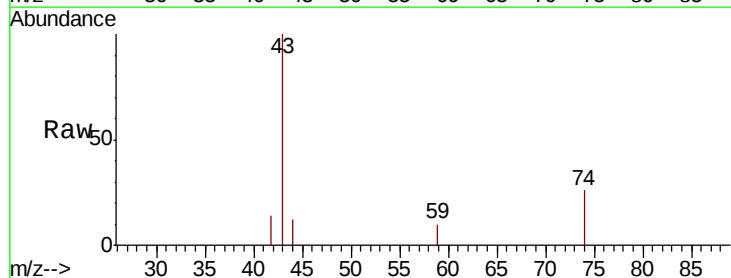
Acq: 24 Jan 2020 19:01

Tgt Ion: 43 Resp: 6948

Ion Ratio Lower Upper

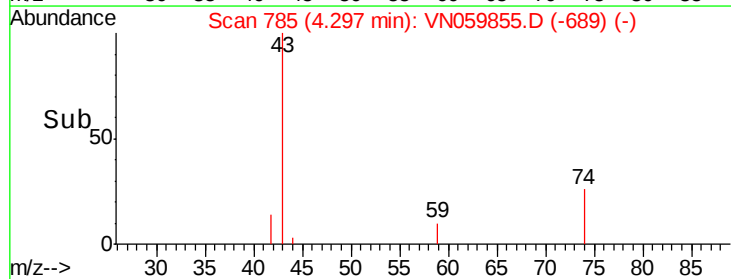
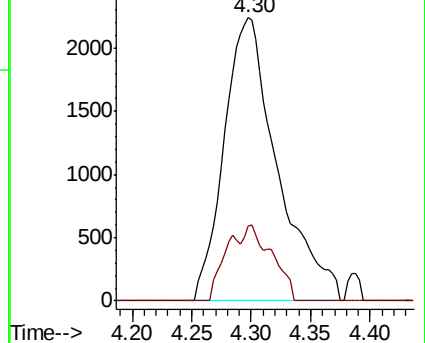
43 100

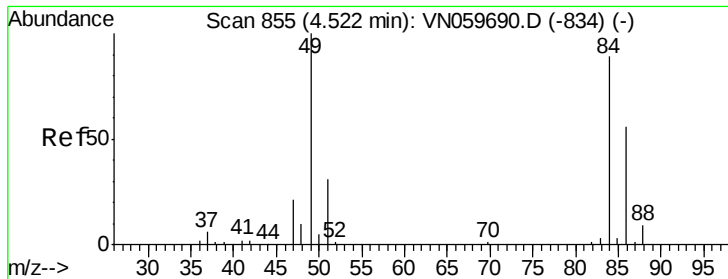
74 14.2 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

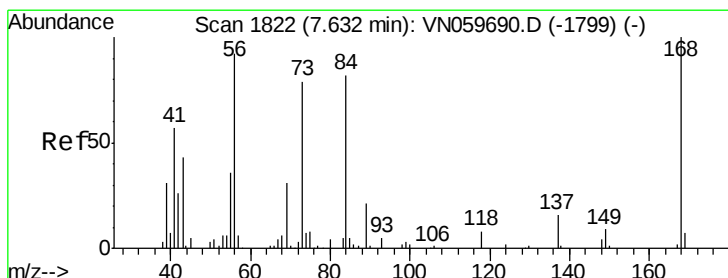
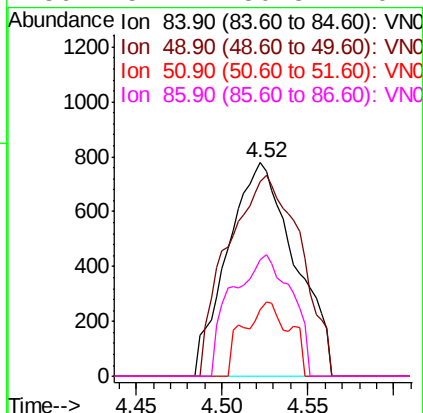
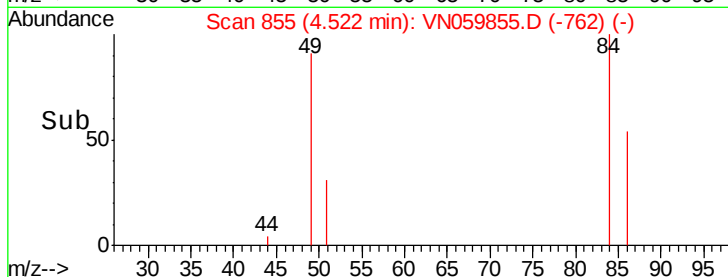
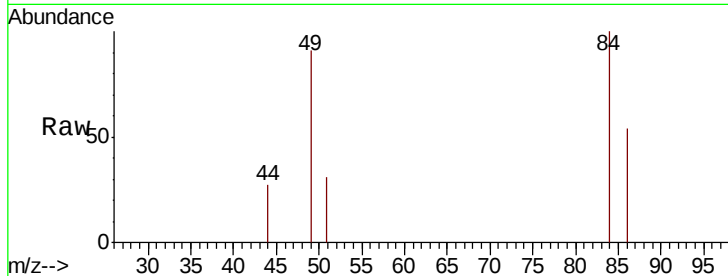




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN059855.D
Acq: 24 Jan 2020 19:01

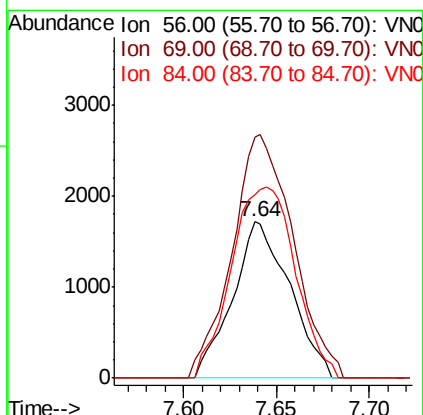
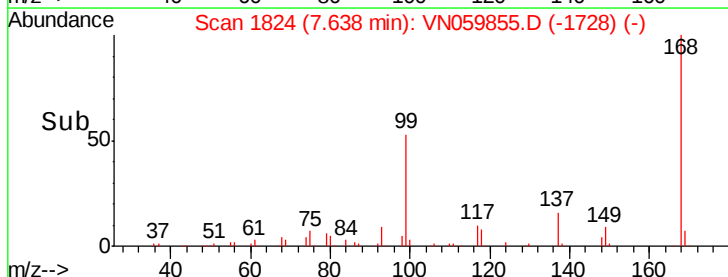
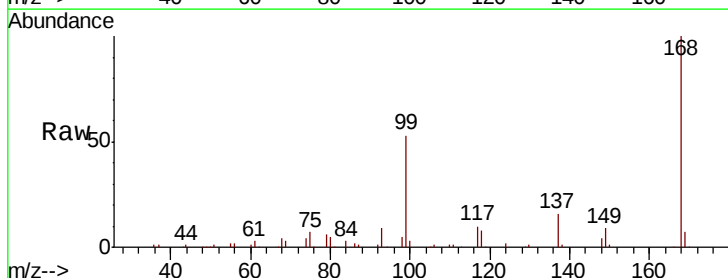
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 84 Resp: 2116
Ion Ratio Lower Upper
84 100
49 91.3 106.6 160.0#
51 31.3 31.9 47.9#
86 54.4 50.8 76.2



#31
Cyclohexane
Concen: 1.100 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN059855.D
Acq: 24 Jan 2020 19:01

Tgt Ion: 56 Resp: 3673
Ion Ratio Lower Upper
56 100
69 154.2 26.5 39.7#
84 117.2 65.3 97.9#

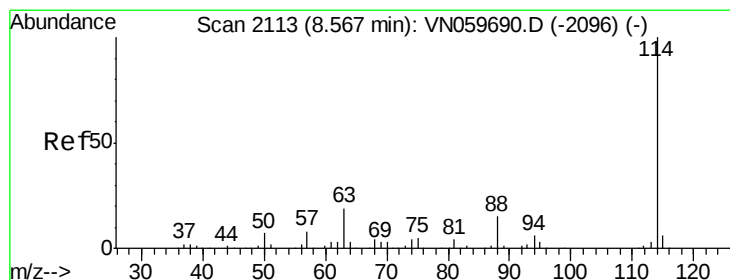
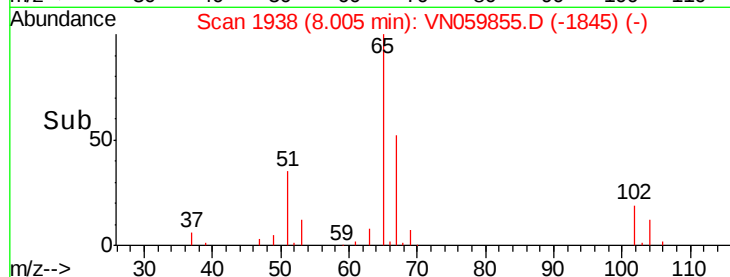
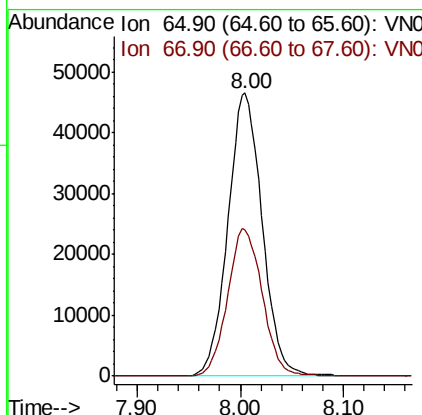
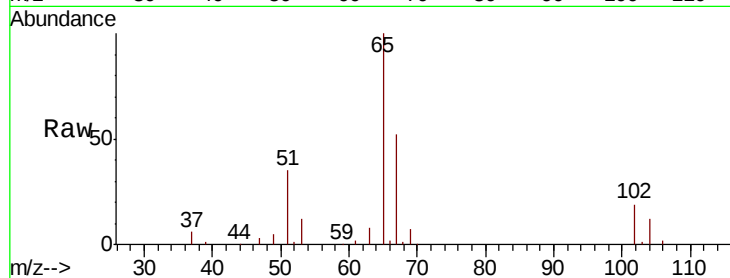




#33
 1,2-Dichloroethane-d4
 Concen: 47.775 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN059855.D
 Acq: 24 Jan 2020 19:01

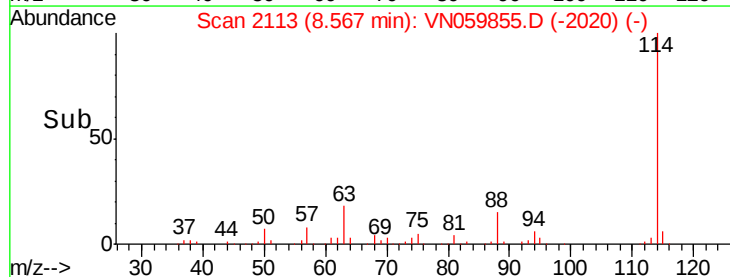
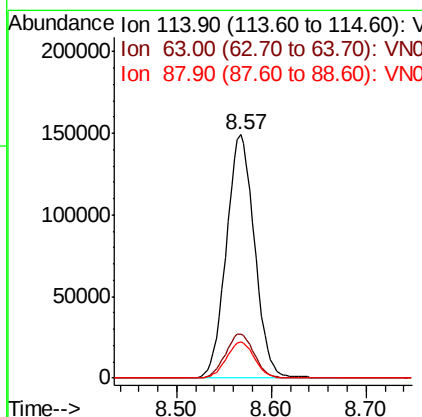
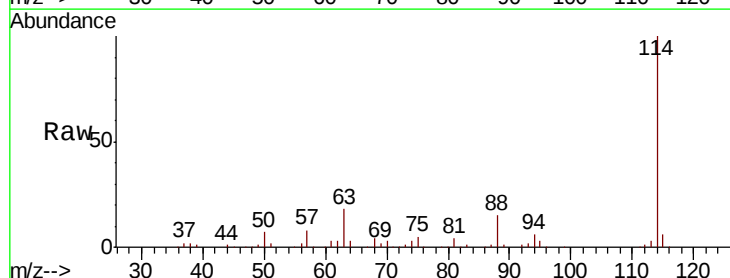
Instrument :
 MSVOA_N
 ClientSampleId :

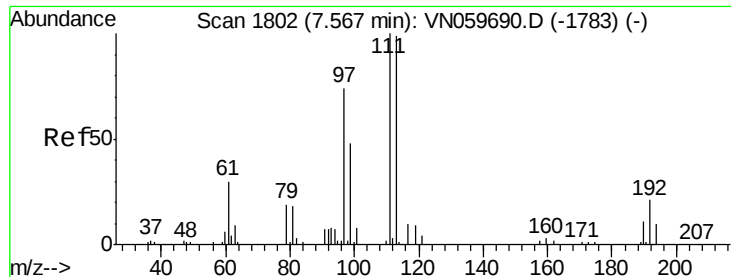
Tot Ion: 65 Resp: 107795
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059855.D
 Acq: 24 Jan 2020 19:01

Tgt Ion: 114 Resp: 308643
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 43.6
 88 14.7 0.0 31.4

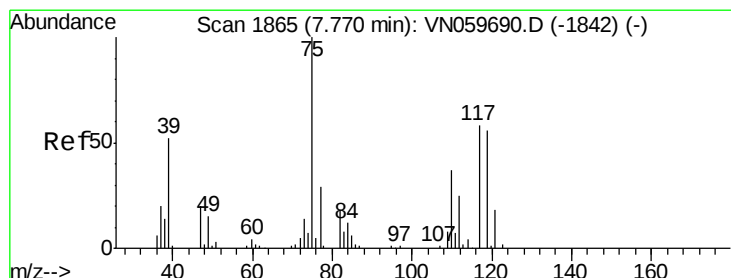
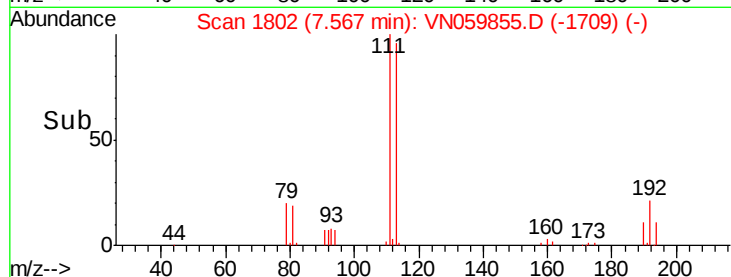
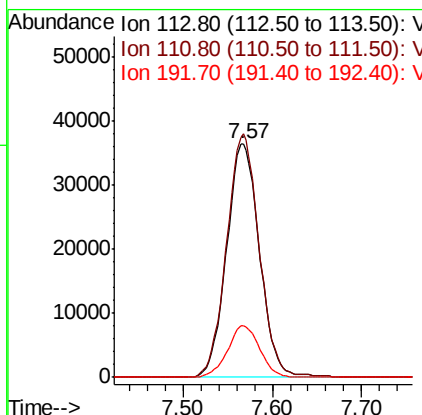
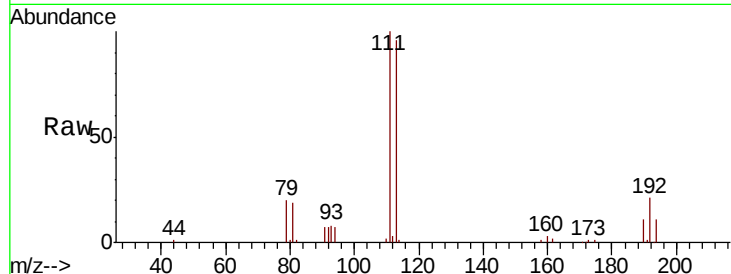




#35
 Dibromofluoromethane
 Concen: 50.677 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059855.D
 Acq: 24 Jan 2020 19:01

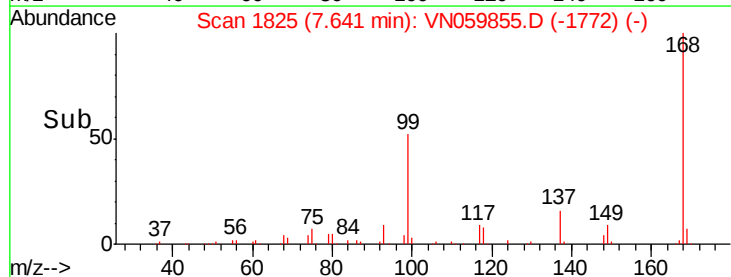
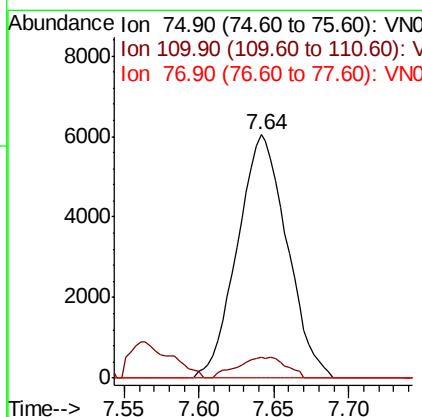
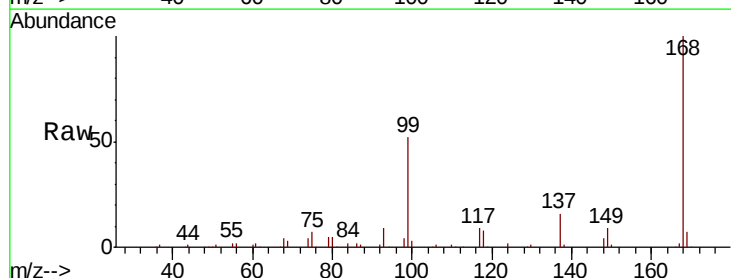
Instrument :
 MSVOA_N
 ClientSampleId :

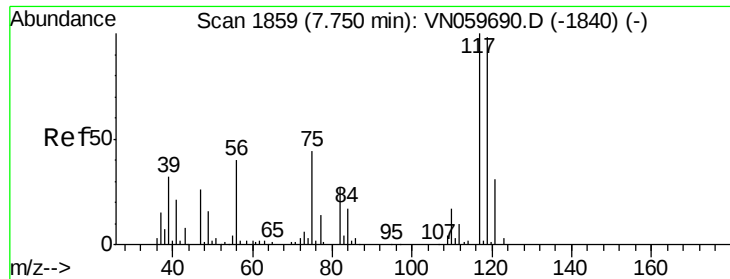
Tot Ion:113 Resp: 93275
 Ion Ratio Lower Upper
 113 100
 111 103.0 83.5 125.3
 192 21.5 15.4 23.2



#36
 1,1-Dichloropropene
 Concen: 5.170 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059855.D
 Acq: 24 Jan 2020 19:01

Tgt Ion: 75 Resp: 13897
 Ion Ratio Lower Upper
 75 100
 110 8.3 16.6 49.7#
 77 0.0 25.1 37.7#

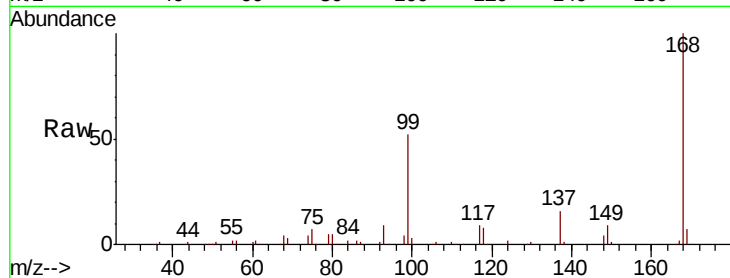




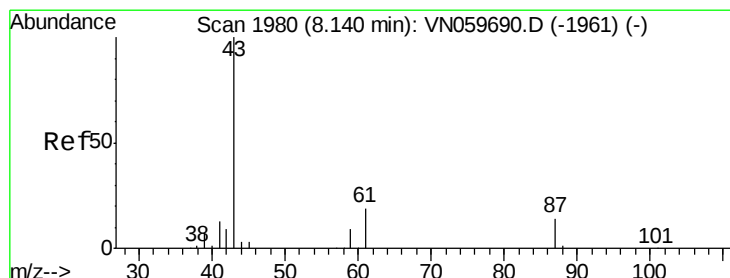
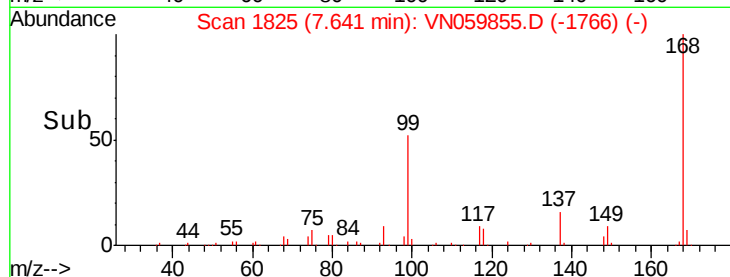
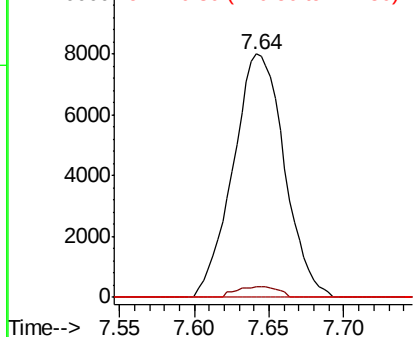
#38
Carbon Tetrachloride
Concen: 6.535 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN059855.D
Acq: 24 Jan 2020 19:01

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 19108
Ion Ratio Lower Upper
117 100
119 4.2 76.5 114.7#
121 0.0 25.1 37.7#

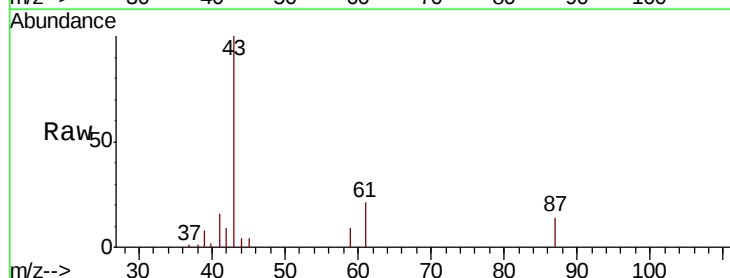


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

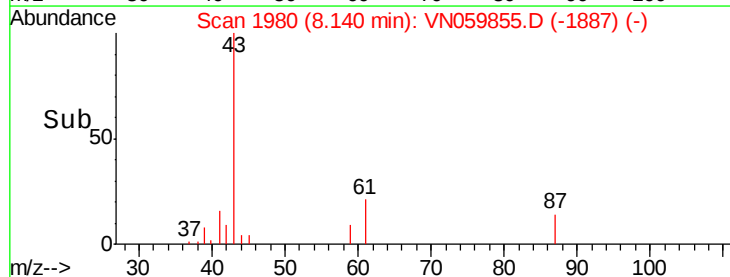
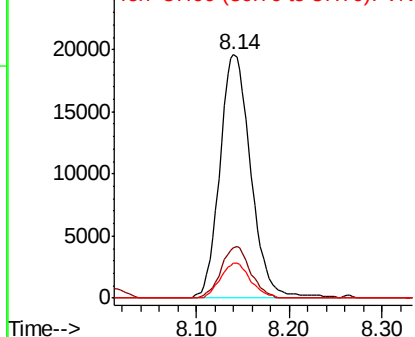


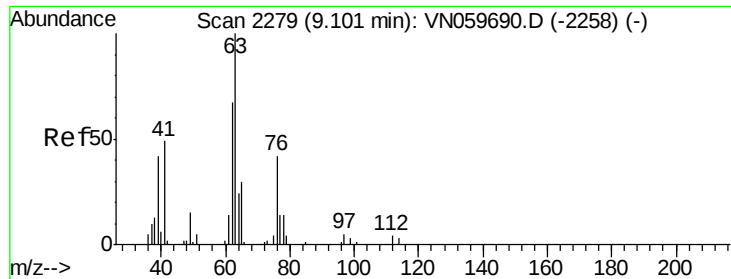
#43
Isopropyl Acetate
Concen: 10.484 ug/l
RT: 8.14 min Scan# 1980
Delta R.T. 0.00 min
Lab File: VN059855.D
Acq: 24 Jan 2020 19:01

Tgt Ion: 43 Resp: 45460
Ion Ratio Lower Upper
43 100
61 19.9 20.2 30.2#
87 13.9 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: 0.505 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN059855.D

Acq: 24 Jan 2020 19:01

Instrument :

MSVOA_N

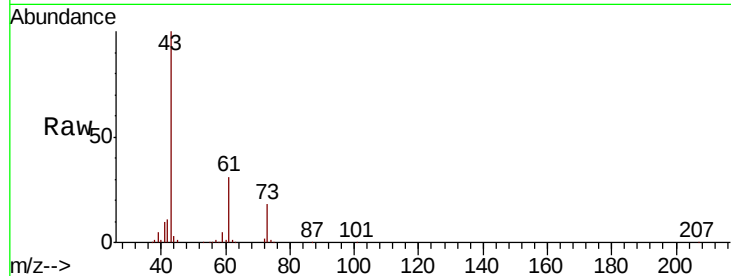
ClientSampleId :

Tot Ion: 63 Resp: 1002

Ion Ratio Lower Upper

63 100

65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.25

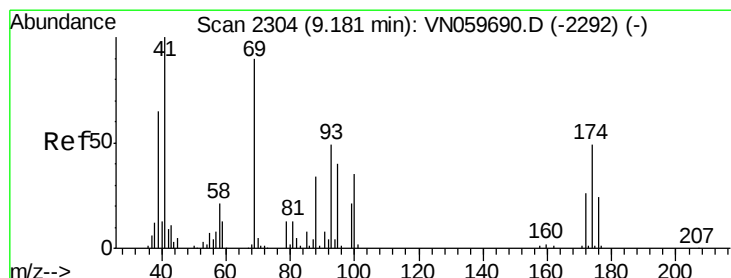
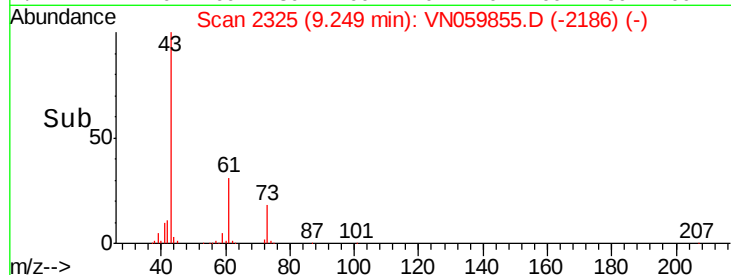
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 1.297 ug/l

RT: 9.17 min Scan# 2299

Delta R.T. -0.02 min

Lab File: VN059855.D

Acq: 24 Jan 2020 19:01

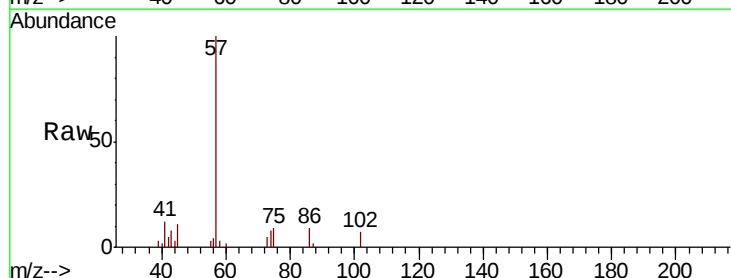
Tgt Ion: 41 Resp: 2515

Ion Ratio Lower Upper

41 100

69 0.0 64.4 96.6#

39 0.0 51.3 76.9#



Abundance Ion 41.00 (40.70 to 41.70): VN0

25000 Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

20000

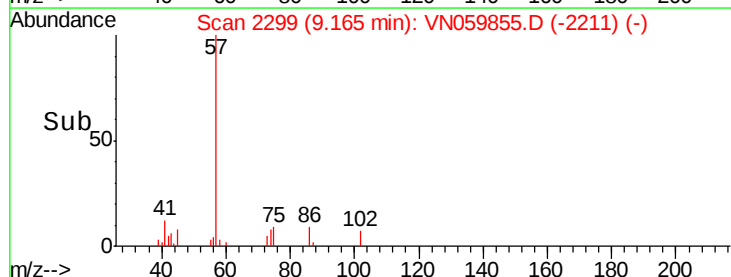
15000

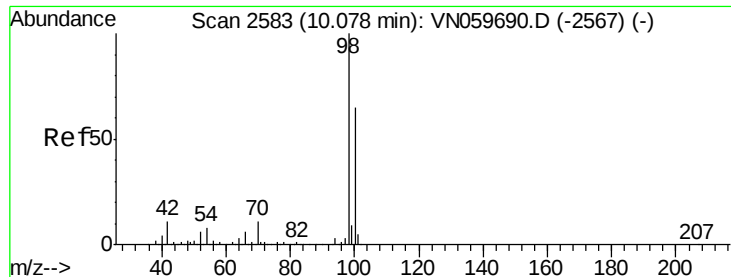
10000

5000

0

Time-->





#50

Toluene-d8

Concen: 51.534 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN059855.D

Acq: 24 Jan 2020 19:01

Instrument :

MSVOA_N

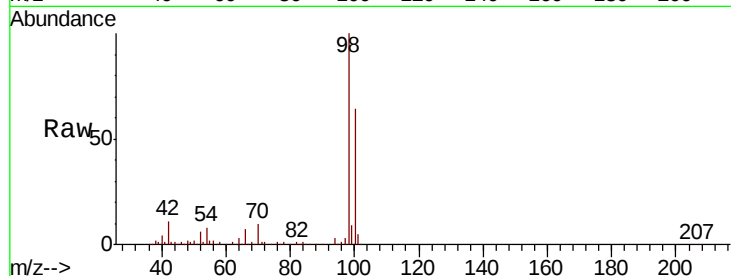
ClientSampled :

Tot Ion: 98 Resp: 367503

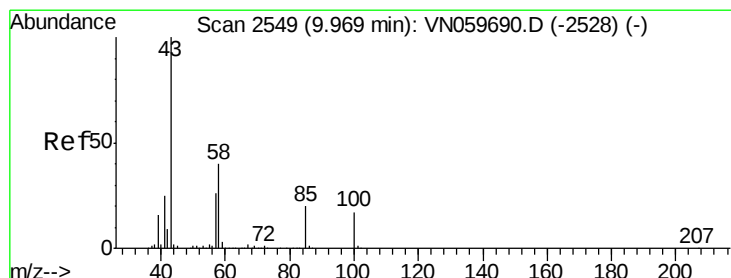
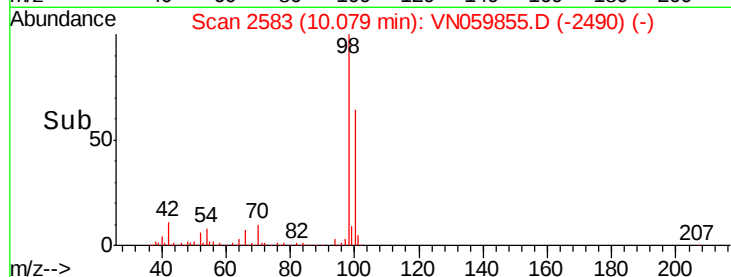
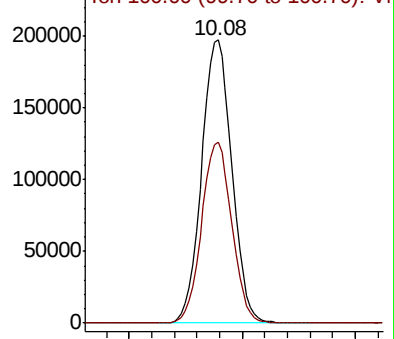
Ion Ratio Lower Upper

98 100

100 63.6 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN059690.D (-2567) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.029 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN059855.D

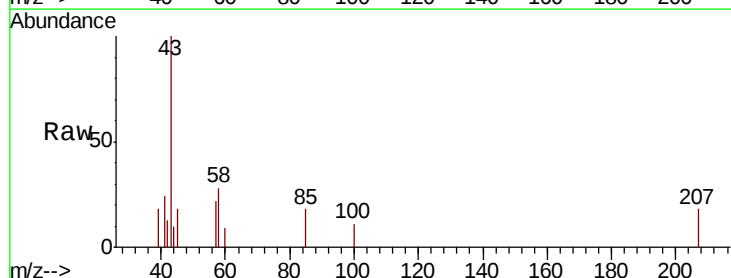
Acq: 24 Jan 2020 19:01

Tgt Ion: 43 Resp: 2579

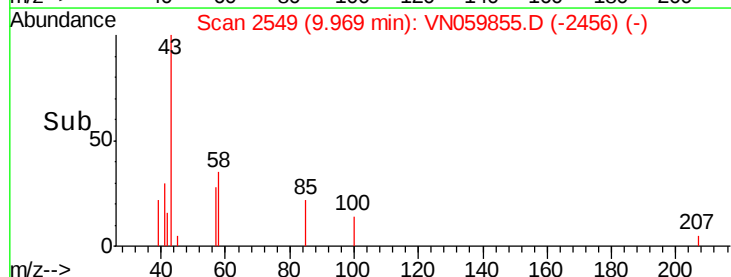
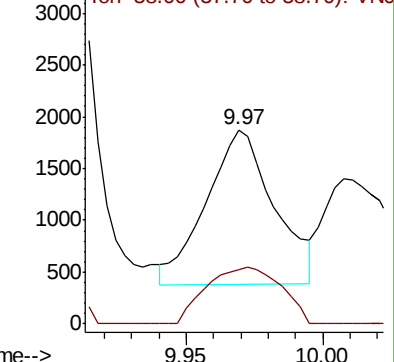
Ion Ratio Lower Upper

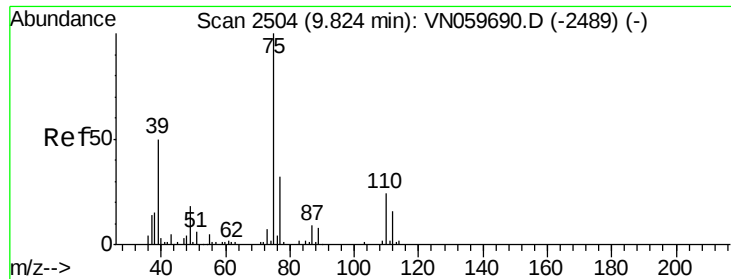
43 100

58 40.5 29.8 44.8



Abundance Ion 43.00 (42.70 to 43.70): VN059690.D (-2528) (-)





#54

cis-1,3-Dichloropropene

Concen: 6.533 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN059855.D

Acq: 24 Jan 2020 19:01

Instrument :

MSVOA_N

ClientSampleId :

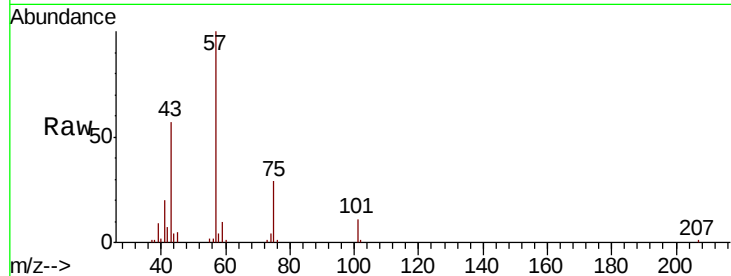
Tot Ion: 75 Resp: 21641

Ion Ratio Lower Upper

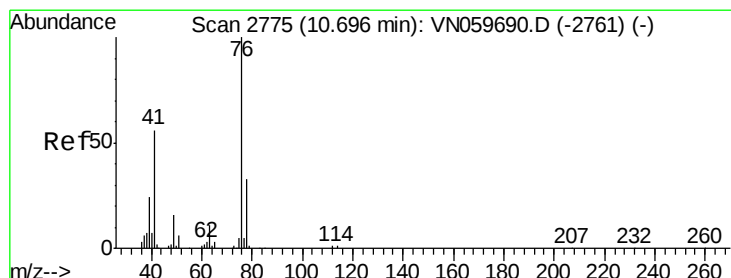
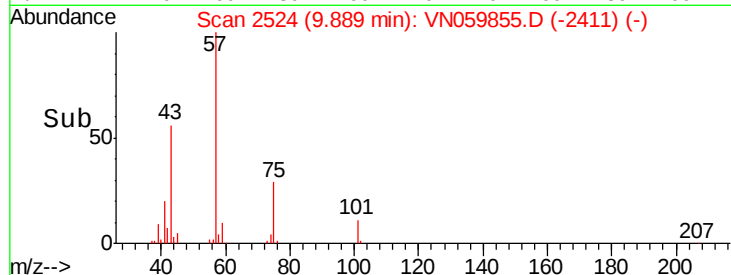
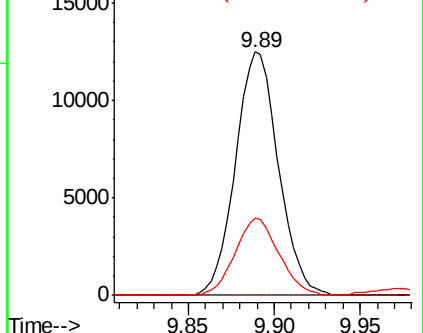
75 100

77 0.0 25.1 37.7#

39 31.7 46.1 69.1#



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



#57

1,3-Dichloropropane

Concen: 1.125 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN059855.D

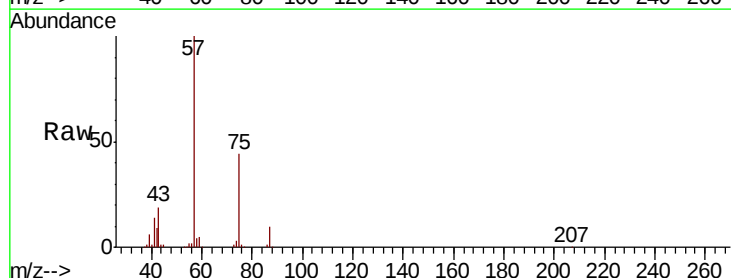
Acq: 24 Jan 2020 19:01

Tgt Ion: 76 Resp: 3581

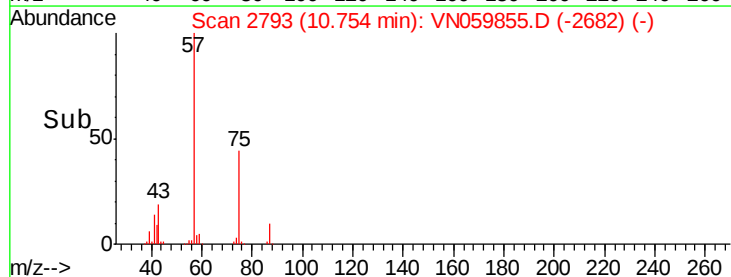
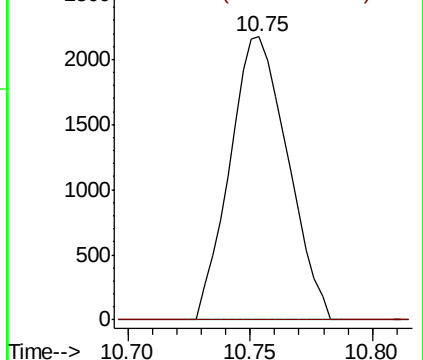
Ion Ratio Lower Upper

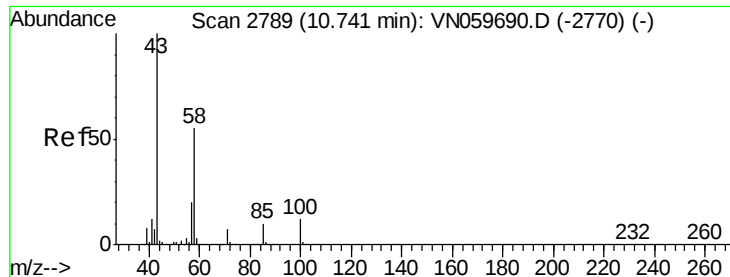
76 100

78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0
Ion 77.90 (77.60 to 78.60): VN0

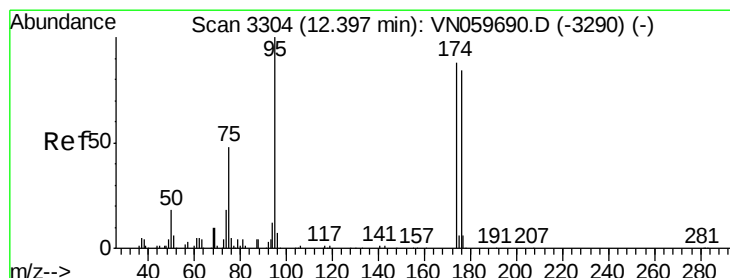
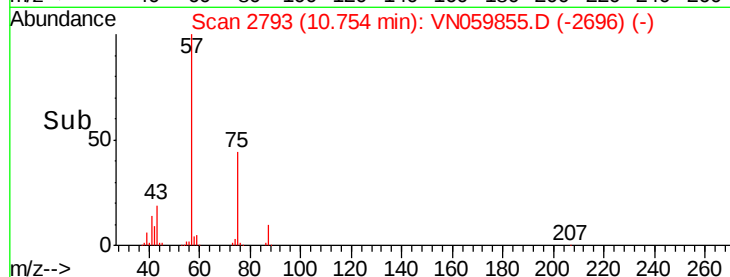
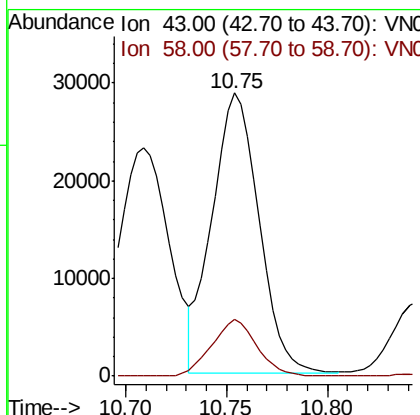
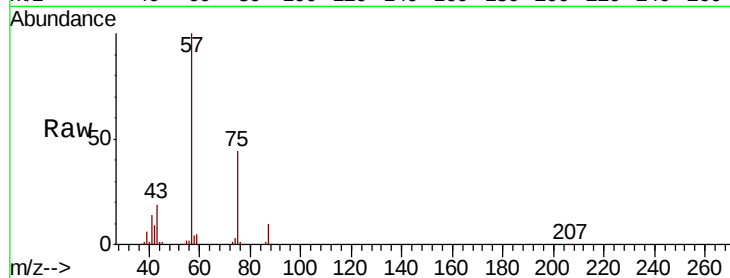




#59
2-Hexanone
Concen: 25.176 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN059855.D
Acq: 24 Jan 2020 19:01

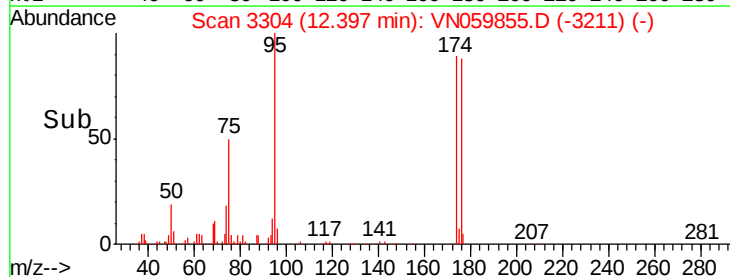
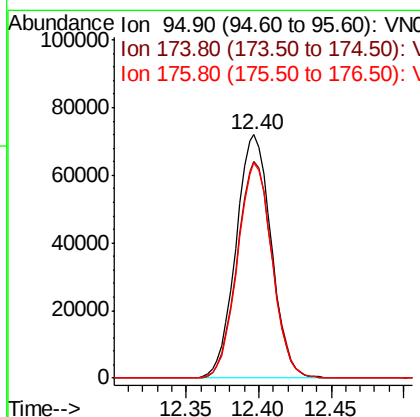
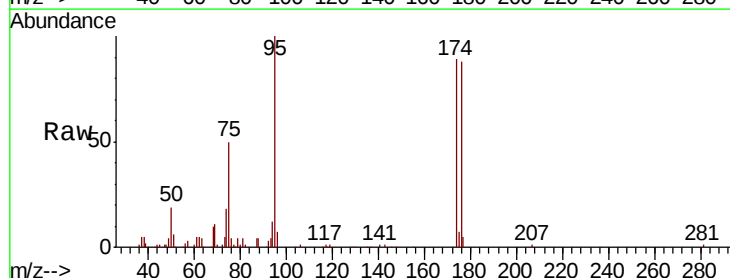
Instrument :
MSVOA_N
ClientSampleId :

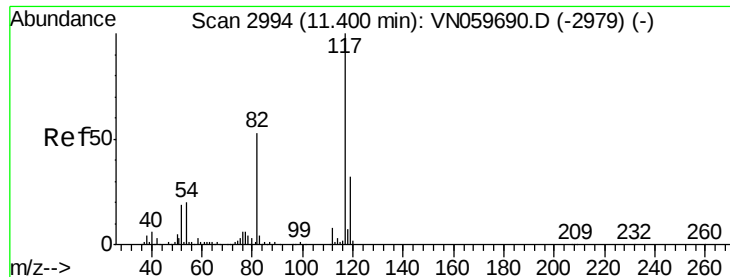
Tot Ion: 43 Resp: 46490
Ion Ratio Lower Upper
43 100
58 19.3 25.8 77.3#



#62
4-Bromofluorobenzene
Concen: 47.288 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN059855.D
Acq: 24 Jan 2020 19:01

Tgt Ion: 95 Resp: 121569
Ion Ratio Lower Upper
95 100
174 88.8 0.0 151.4
176 87.2 0.0 146.0

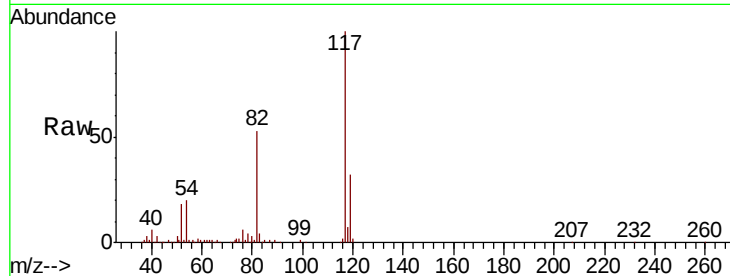




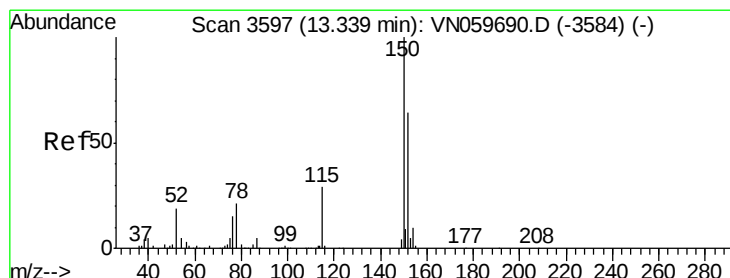
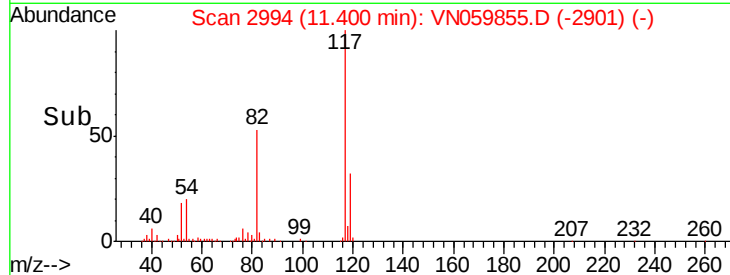
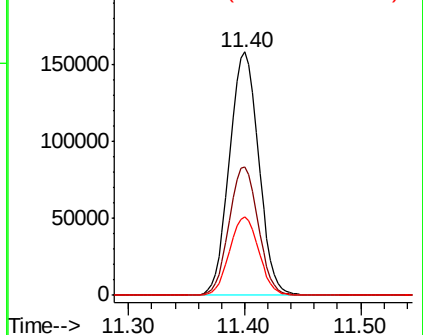
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN059855.D
Acq: 24 Jan 2020 19:01

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 276676
Ion Ratio Lower Upper
117 100
82 52.8 45.9 68.9
119 32.2 25.5 38.3

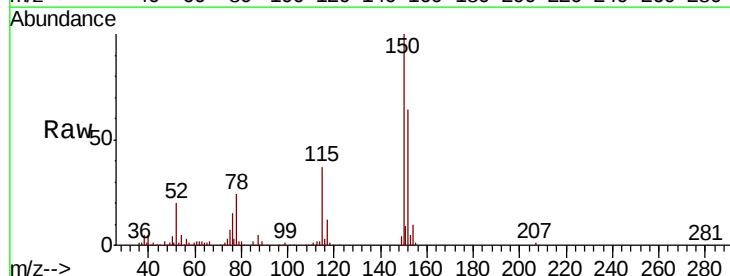


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

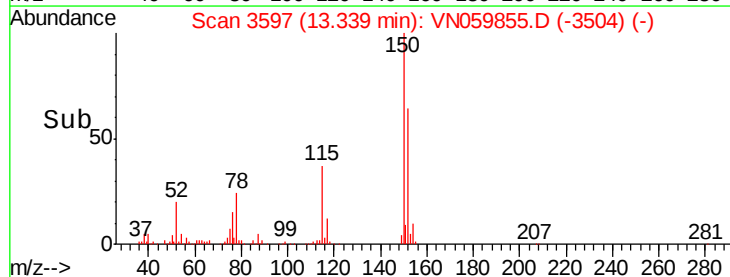
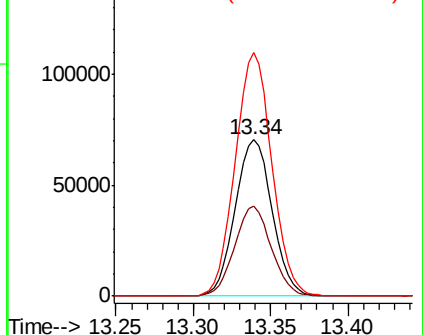


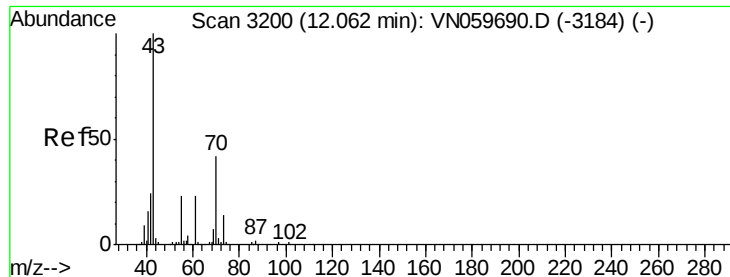
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN059855.D
Acq: 24 Jan 2020 19:01

Tgt Ion:152 Resp: 117705
Ion Ratio Lower Upper
152 100
115 56.8 30.3 90.9
150 154.2 0.0 345.2



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: 0.539 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.03 min

Lab File: VN059855.D

Acq: 24 Jan 2020 19:01

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 1807

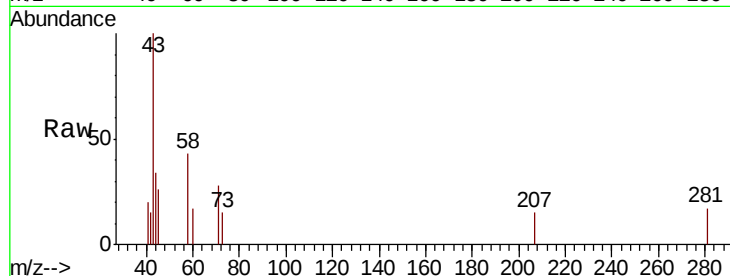
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

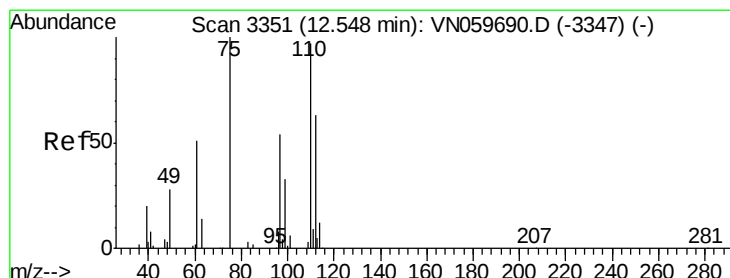
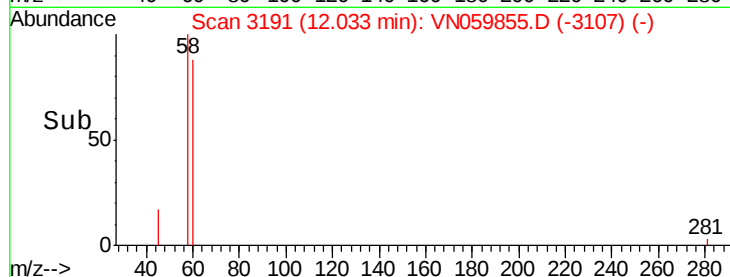
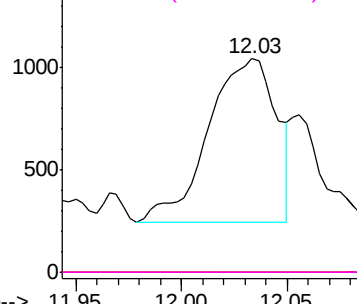


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 31.019 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059855.D

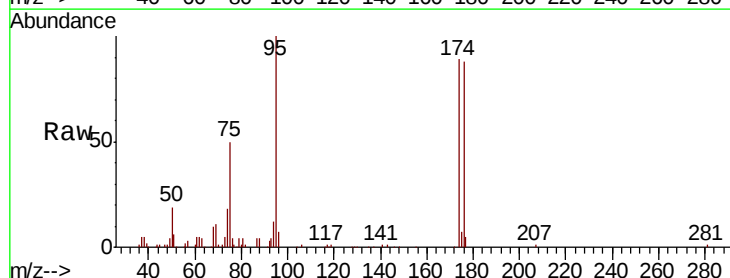
Acq: 24 Jan 2020 19:01

Tgt Ion: 75 Resp: 61445

Ion Ratio Lower Upper

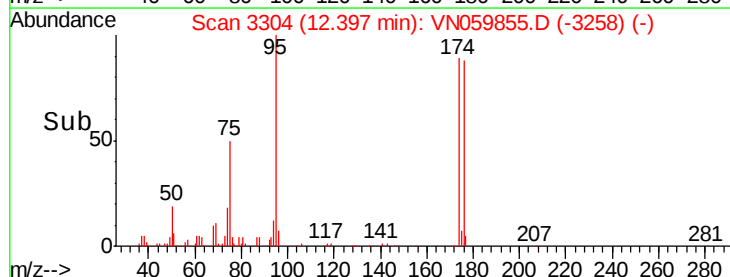
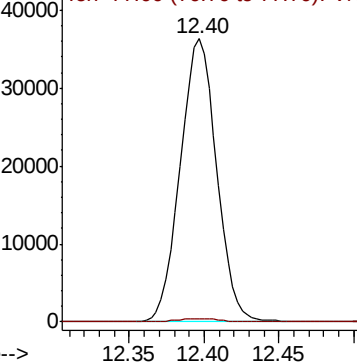
75 100

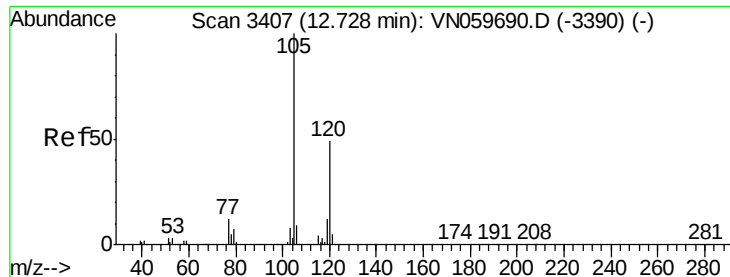
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.805 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN059855.D

Acq: 24 Jan 2020 19:01

Instrument :

MSVOA_N

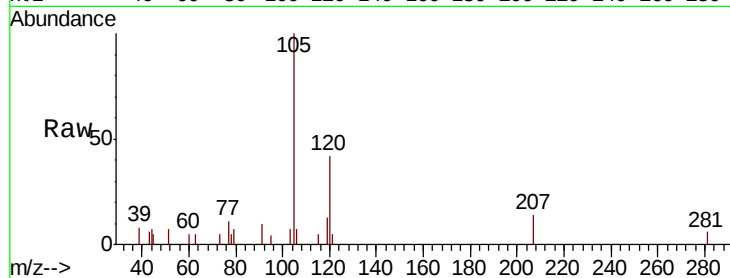
ClientSampleId :

Tot Ion: 105 Resp: 5842

Ion Ratio Lower Upper

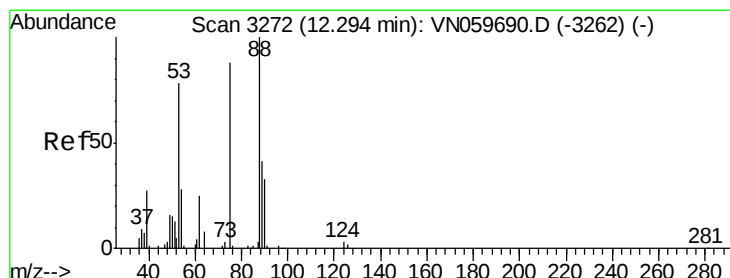
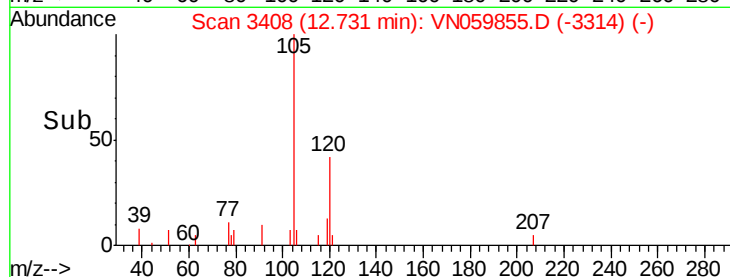
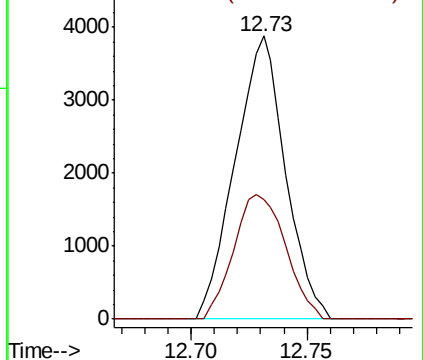
105 100

120 45.3 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 66.614 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059855.D

Acq: 24 Jan 2020 19:01

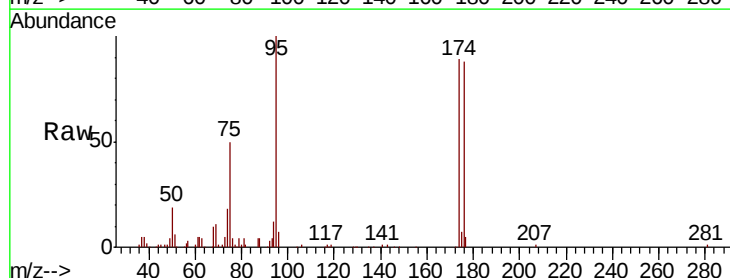
Tgt Ion: 75 Resp: 61445

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

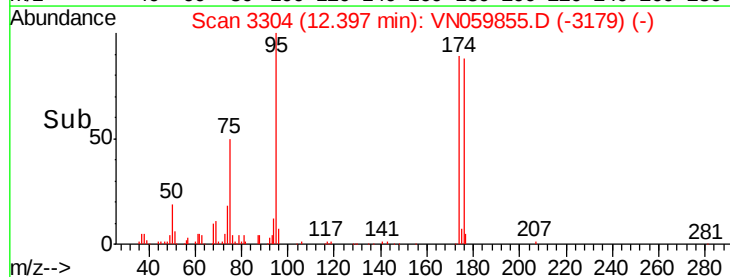
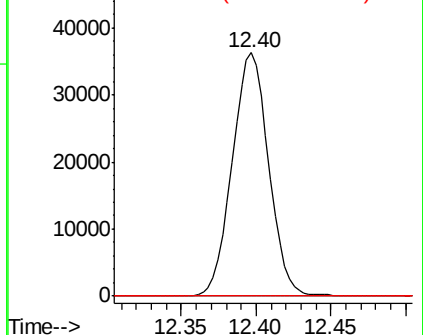
89 0.0 35.4 53.2#

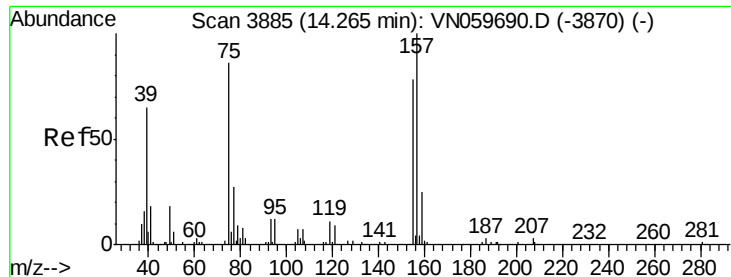


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.26 min Scan# 3885

Delta R.T. 0.00 min

Lab File: VN059855.D

Acq: 24 Jan 2020 19:01

Instrument :

MSVOA_N

ClientSampleId :

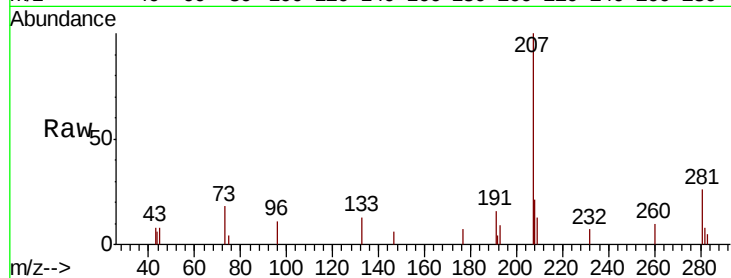
Tot Ion: 75 Resp: 96

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

157 0.0 48.4 145.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

