

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012720\
 Data File : VN059883.D
 Acq On : 27 Jan 2020 19:23
 Operator : JC/MD
 Sample : PB126348ZHE#07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 27 23:12:48 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	210376	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	313842	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	276810	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	111497	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	110507	47.30	ug/l	0.00
Spiked Amount			Recovery	=	94.60%	
35) Dibromofluoromethane	7.56	113	95633	51.10	ug/l	0.00
Spiked Amount			Recovery	=	102.20%	
50) Toluene-d8	10.08	98	370347	51.07	ug/l	0.00
Spiked Amount			Recovery	=	102.14%	
62) 4-Bromofluorobenzene	12.40	95	121950	46.65	ug/l	0.00
Spiked Amount			Recovery	=	93.30%	

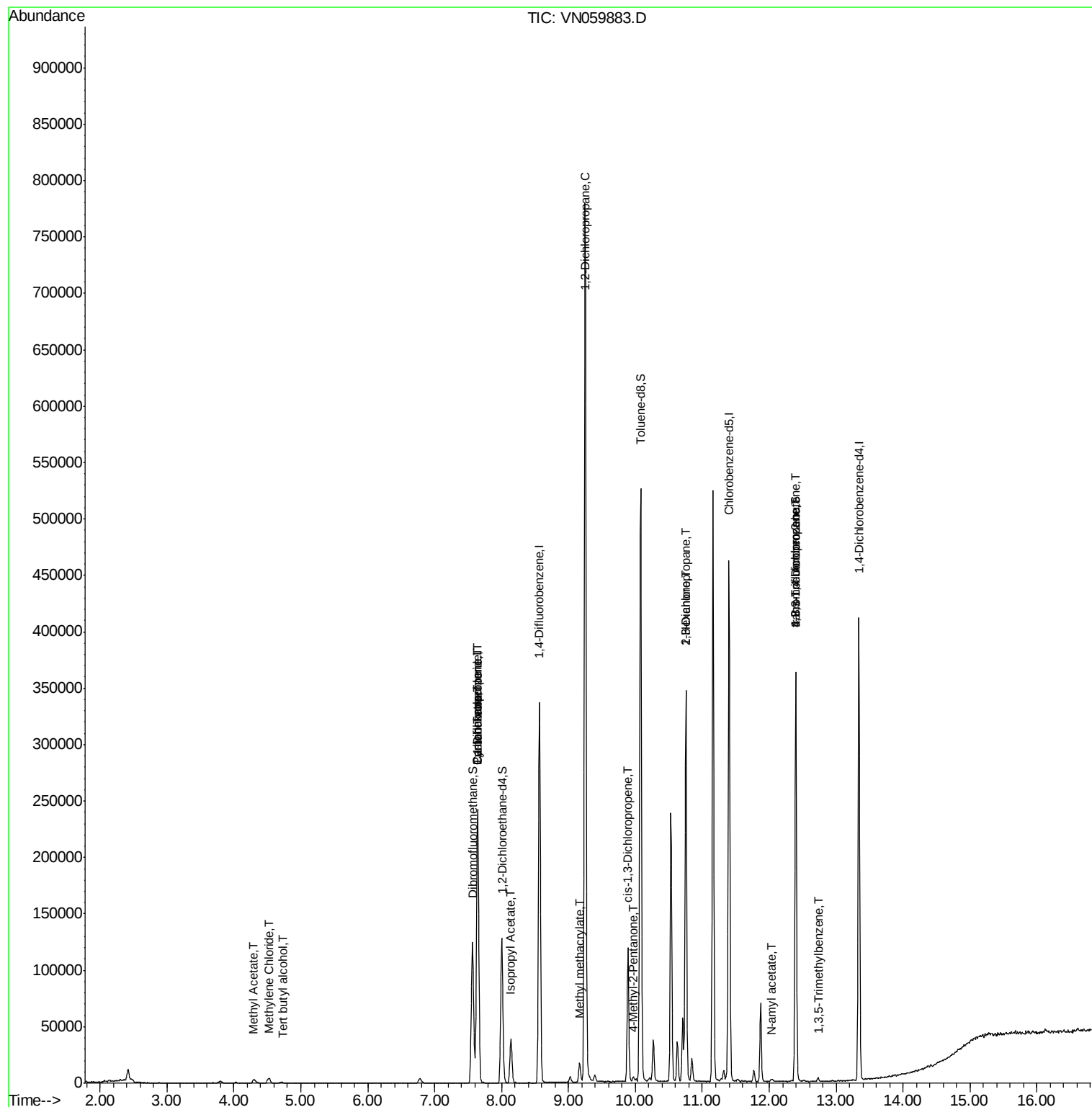
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	241	0.613	ug/l #	72
16) Acetone	3.80	43	3390	Below Cal		99
18) Methyl Acetate	4.30	43	6398	2.345	ug/l #	89
20) Methylene Chloride	4.53	84	3897	0.564	ug/l #	78
31) Cyclohexane	7.64	56	3820	1.105	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	13936	5.099	ug/l #	50
38) Carbon Tetrachloride	7.64	117	19553	6.577	ug/l #	16
43) Isopropyl Acetate	8.14	43	45500	10.320	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	819	0.406	ug/l #	44
48) Methyl methacrylate	9.16	41	2413	1.224	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	2863	1.123	ug/l	91
54) cis-1,3-Dichloropropene	9.89	75	22962	6.817	ug/l #	56
57) 1,3-Dichloropropane	10.75	76	3590	1.109	ug/l #	42
59) 2-Hexanone	10.75	43	47214	25.145	ug/l #	55
74) N-amyl acetate	12.03	43	2226	0.702	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	61360	32.701	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2230	0.324	ug/l	91
81) trans-1,4-Dichloro-2-buten	12.40	75	61360	70.226	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.26	75	64	Below Cal	#	6

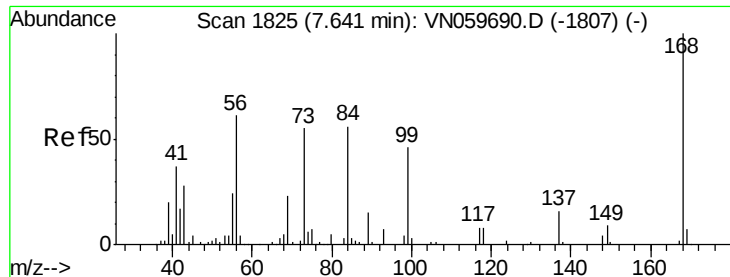
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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# 1825

Delta R.T. 0.00 min

Lab File: VN059883.D

Acq: 27 Jan 2020 19:23

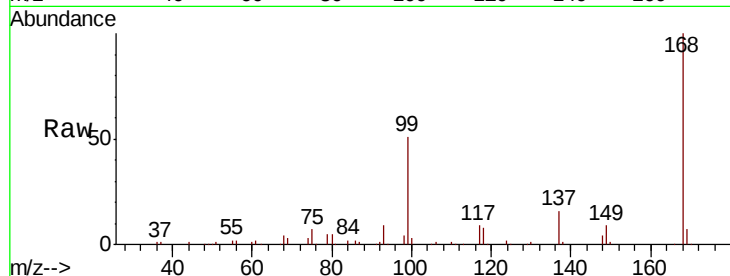
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 210376

Ion Ratio Lower Upper

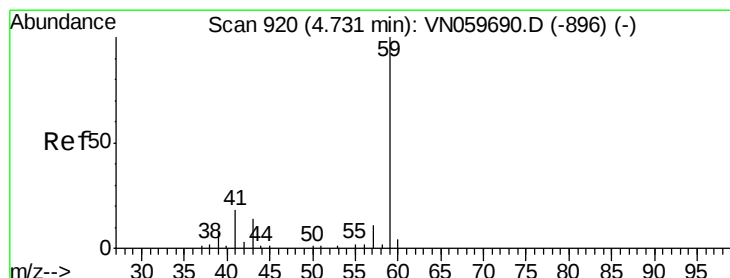
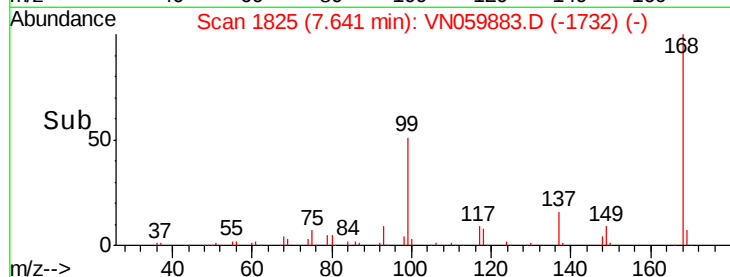
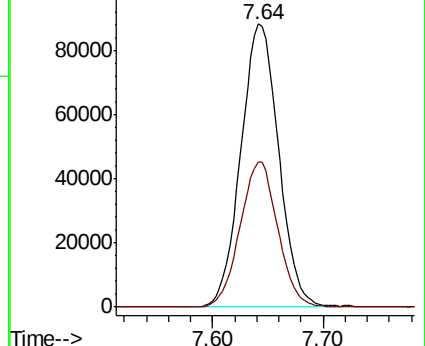
168 100

99 51.1 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 0.613 ug/l

RT: 4.73 min Scan# 919

Delta R.T. -0.00 min

Lab File: VN059883.D

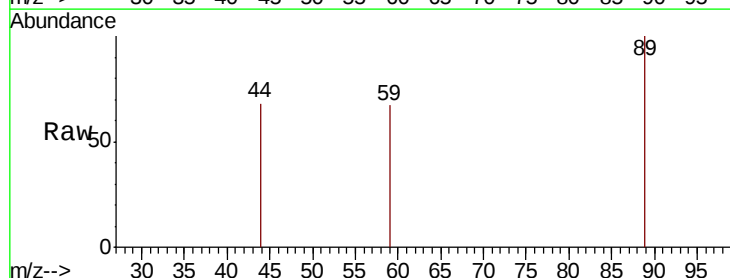
Acq: 27 Jan 2020 19:23

Tgt Ion: 59 Resp: 241

Ion Ratio Lower Upper

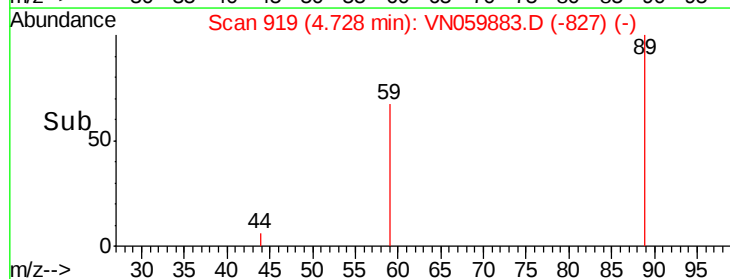
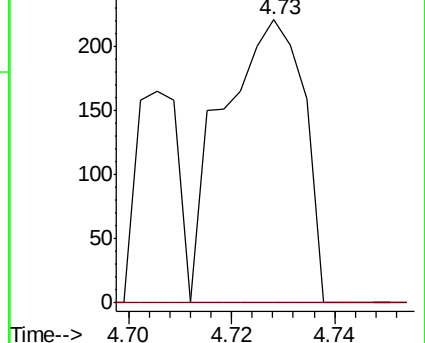
59 100

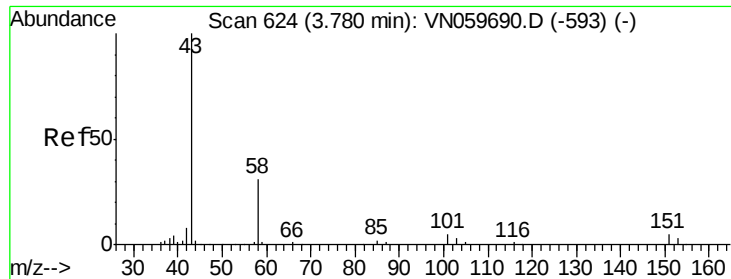
57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: Below Cal

RT: 3.80 min Scan# 629

Delta R.T. 0.02 min

Lab File: VN059883.D

Acq: 27 Jan 2020 19:23

Instrument :

MSVOA_N

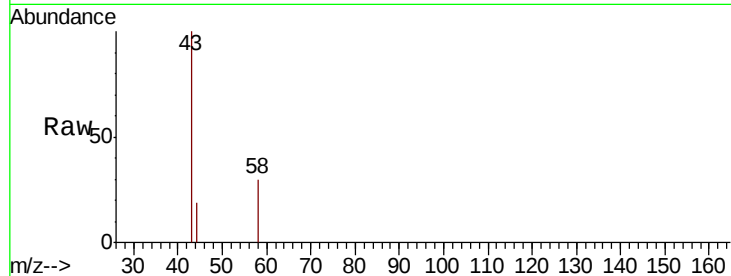
ClientSampled :

Tot Ion: 43 Resp: 3390

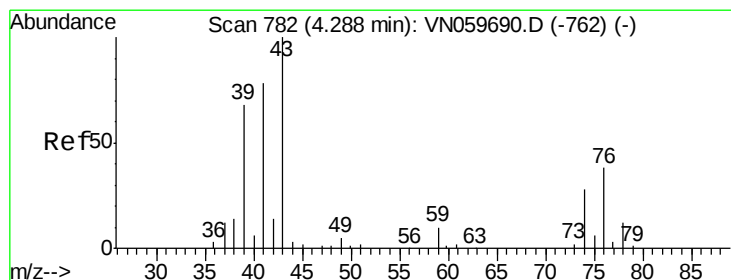
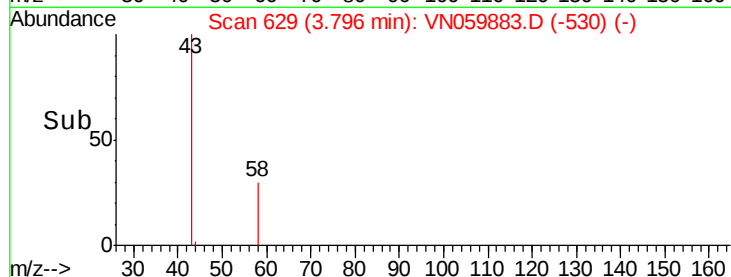
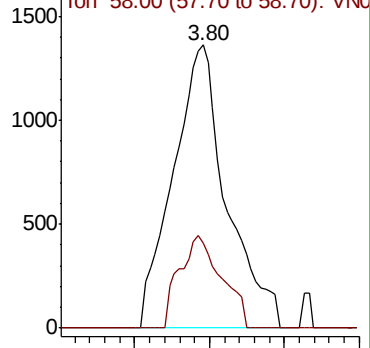
Ion Ratio Lower Upper

43 100

58 30.0 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN059690.D (-593) (-)



#18

Methyl Acetate

Concen: 2.345 ug/l

RT: 4.30 min Scan# 785

Delta R.T. 0.01 min

Lab File: VN059883.D

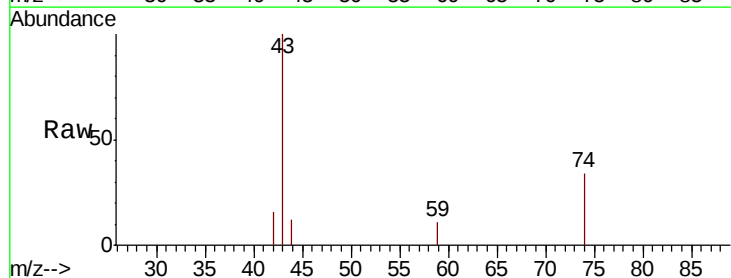
Acq: 27 Jan 2020 19:23

Tgt Ion: 43 Resp: 6398

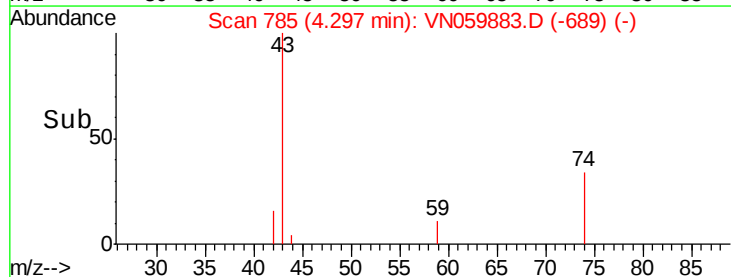
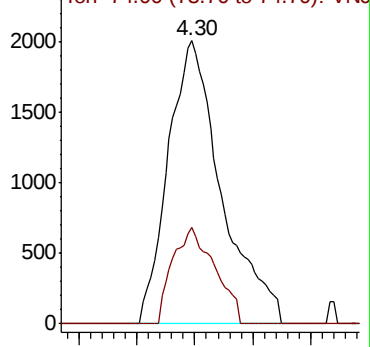
Ion Ratio Lower Upper

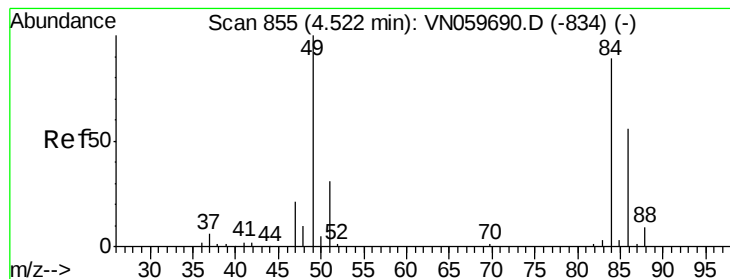
43 100

74 27.0 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VN059690.D (-762) (-)





#20

Methvlene Chloride

Concen: 0.564 ug/l

RT: 4.53 min Scan# 857

Delta R.T. 0.01 min

Lab File: VN059883.D

Acq: 27 Jan 2020 19:23

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 84 Resp: 3897

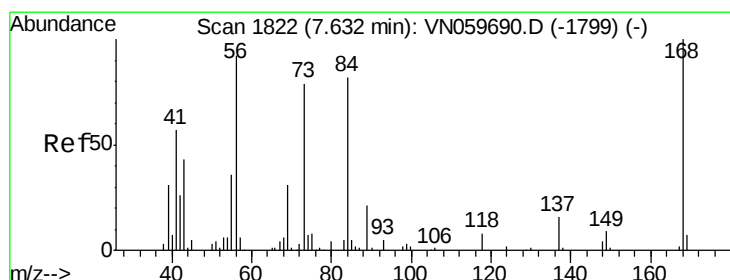
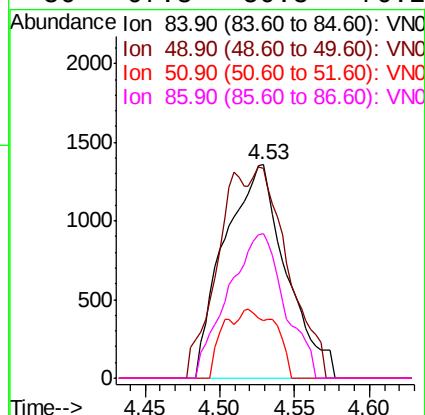
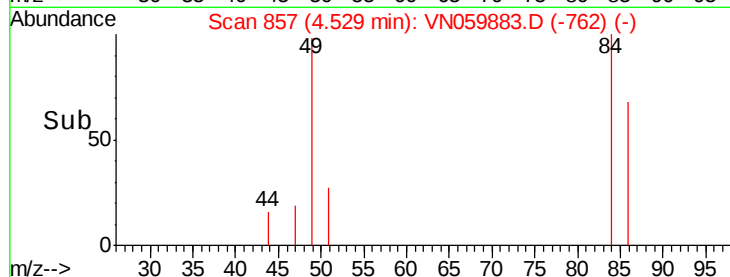
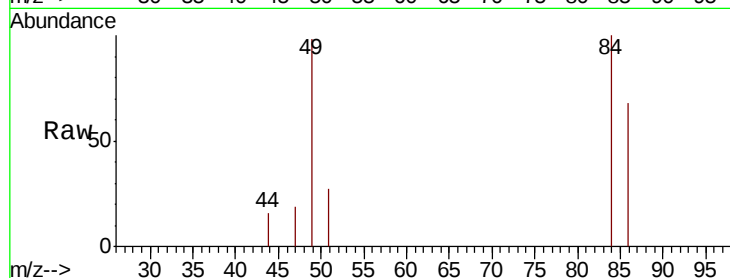
Ion Ratio Lower Upper

84 100

49 98.3 106.6 160.0#

51 27.2 31.9 47.9#

86 67.8 50.8 76.2



#31

Cyclohexane

Concen: 1.105 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN059883.D

Acq: 27 Jan 2020 19:23

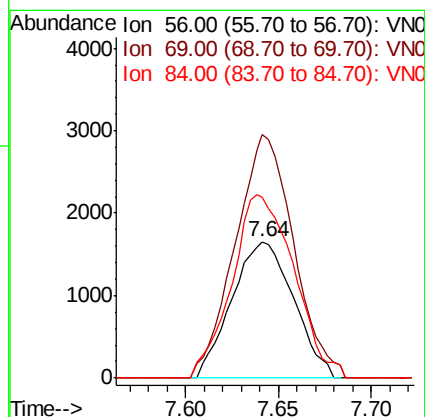
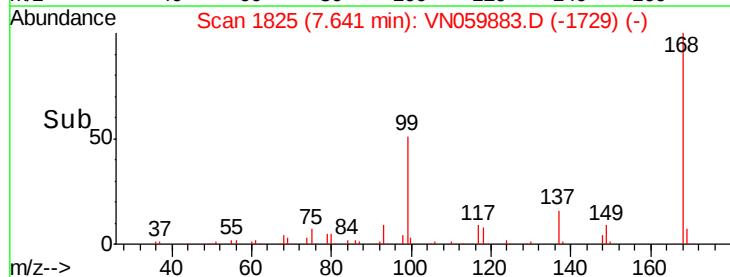
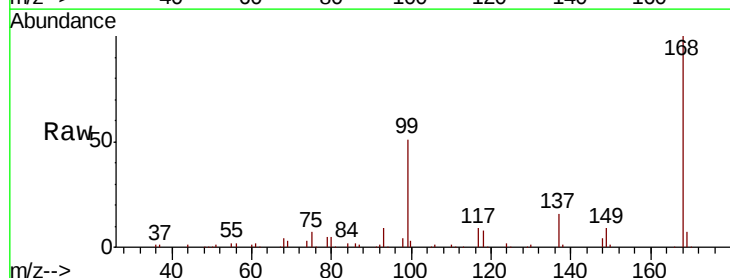
Tgt Ion: 56 Resp: 3820

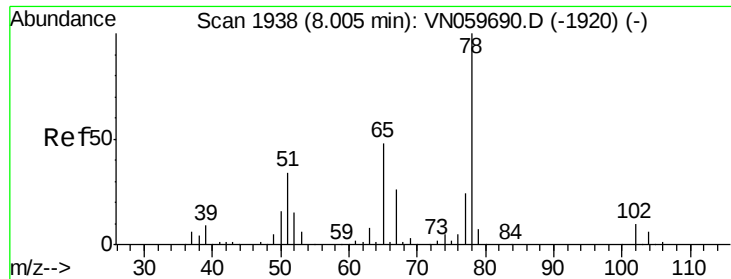
Ion Ratio Lower Upper

56 100

69 178.3 26.5 39.7#

84 132.1 65.3 97.9#

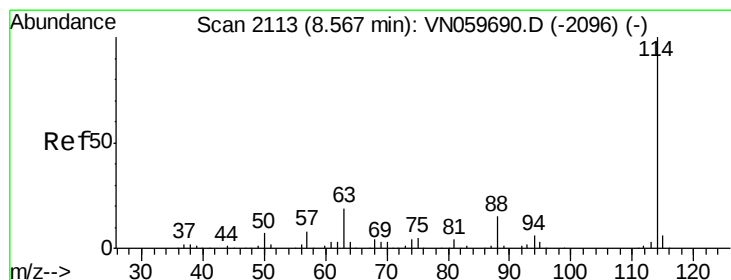
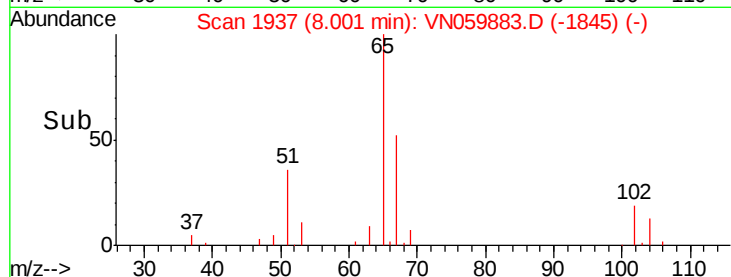
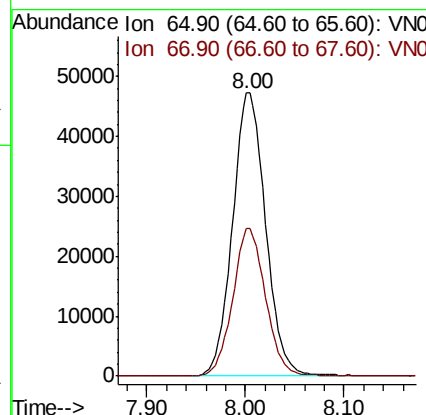
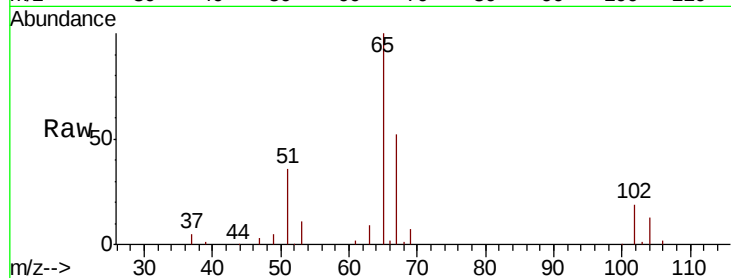




#33
 1,2-Dichloroethane-d4
 Concen: 47.300 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN059883.D
 Acq: 27 Jan 2020 19:23

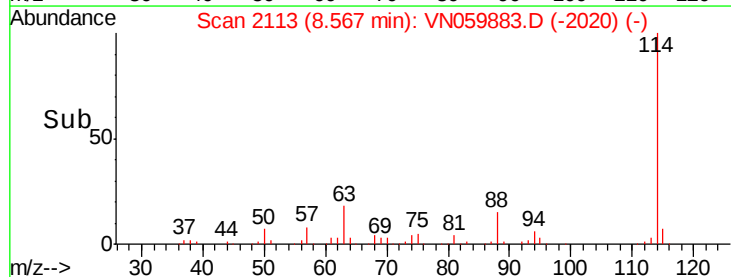
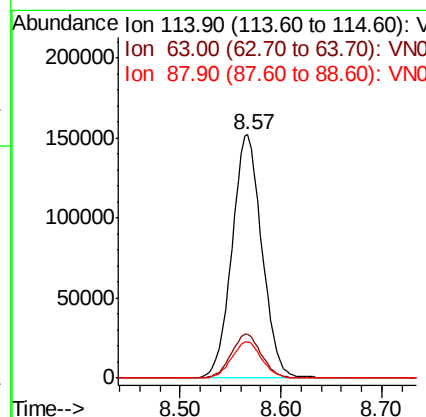
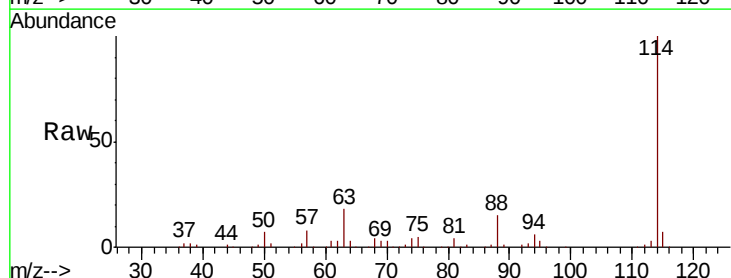
Instrument :
 MSVOA_N
 ClientSampleId :

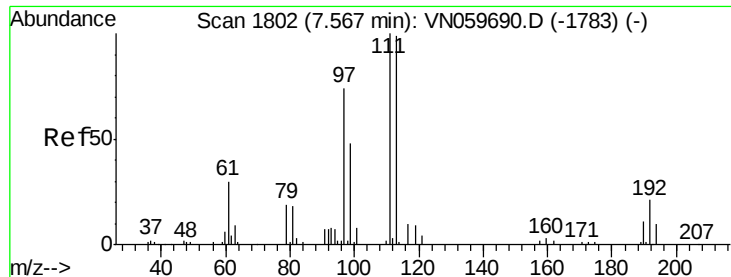
Tot Ion: 65 Resp: 110507
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059883.D
 Acq: 27 Jan 2020 19:23

Tgt Ion: 114 Resp: 313842
 Ion Ratio Lower Upper
 114 100
 63 17.9 0.0 43.6
 88 14.9 0.0 31.4

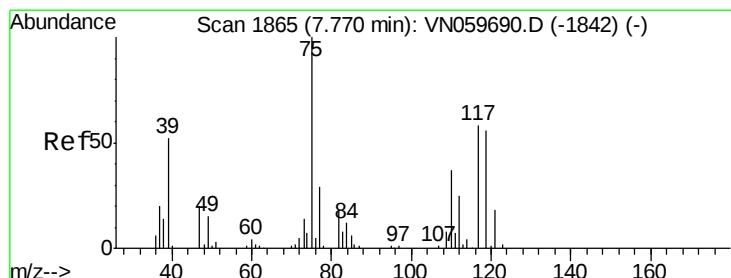
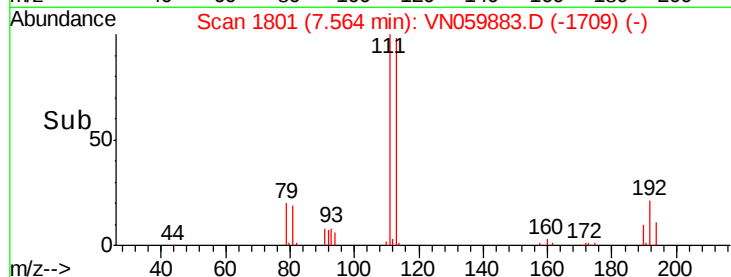
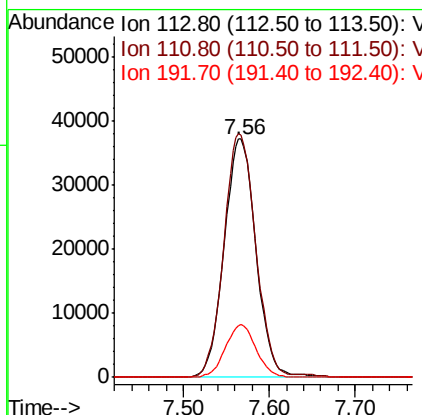
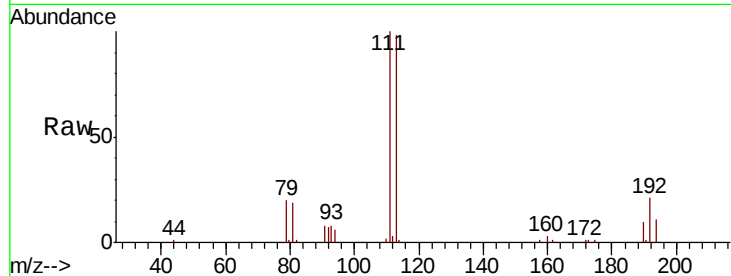




#35
 Dibromofluoromethane
 Concen: 51.098 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN059883.D
 Acq: 27 Jan 2020 19:23

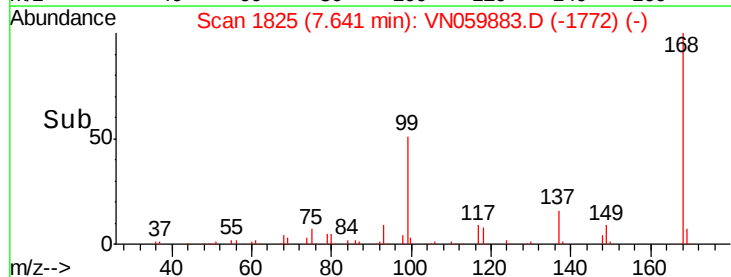
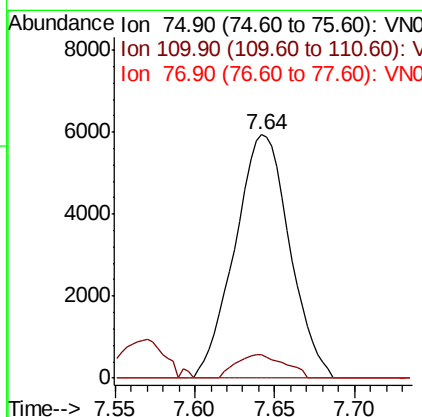
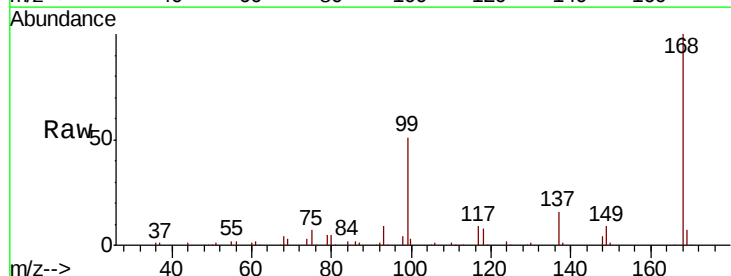
Instrument :
 MSVOA_N
 ClientSampleId :

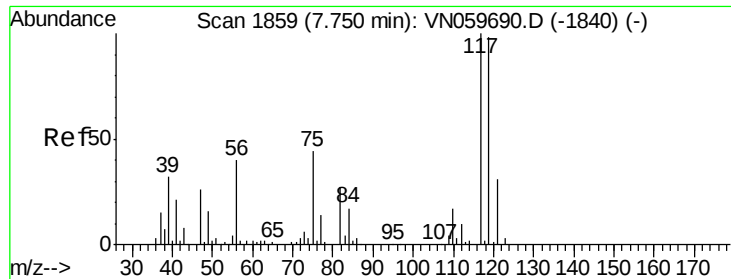
Tot Ion:113 Resp: 95633
 Ion Ratio Lower Upper
 113 100
 111 101.9 83.5 125.3
 192 21.2 15.4 23.2



#36
 1,1-Dichloropropene
 Concen: 5.099 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059883.D
 Acq: 27 Jan 2020 19:23

Tgt Ion: 75 Resp: 13936
 Ion Ratio Lower Upper
 75 100
 110 8.6 16.6 49.7#
 77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 6.577 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN059883.D

Acq: 27 Jan 2020 19:23

Instrument :

MSVOA_N

ClientSampleId :

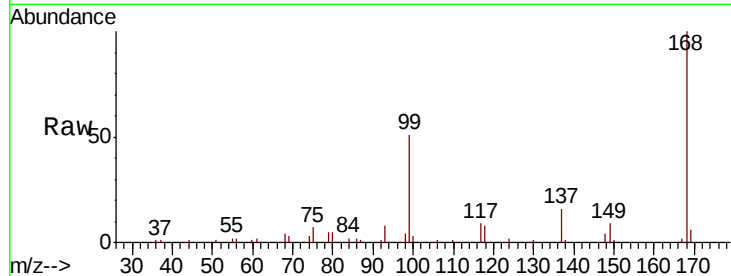
Tot Ion:117 Resp: 19553

Ion Ratio Lower Upper

117 100

119 5.1 76.5 114.7#

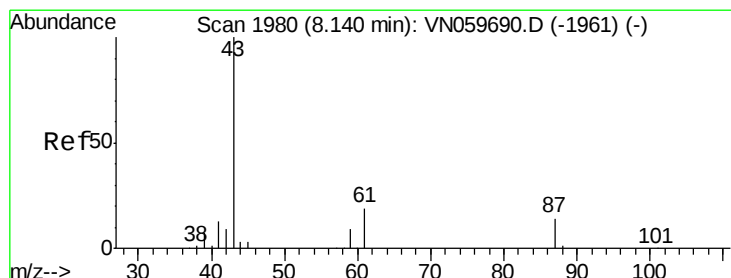
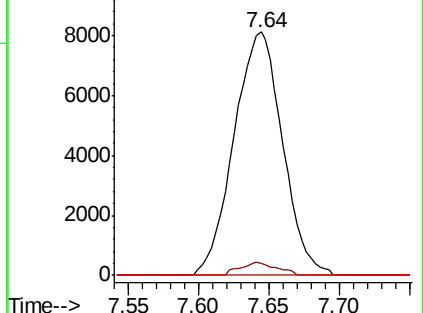
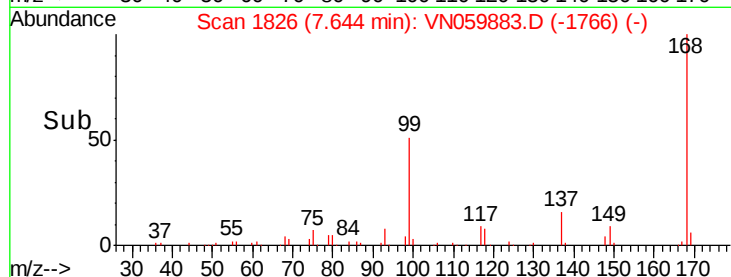
121 0.0 25.1 37.7#



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: 10.320 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN059883.D

Acq: 27 Jan 2020 19:23

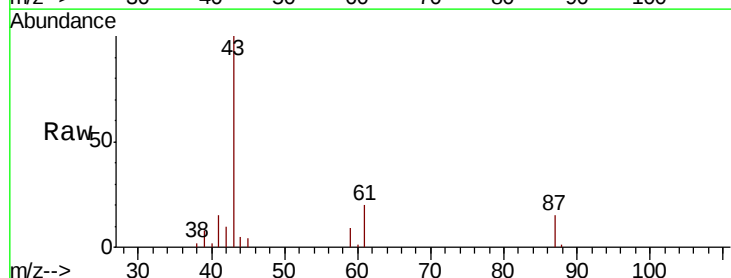
Tgt Ion: 43 Resp: 45500

Ion Ratio Lower Upper

43 100

61 20.2 20.2 30.2

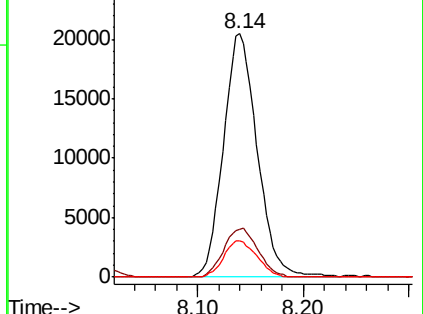
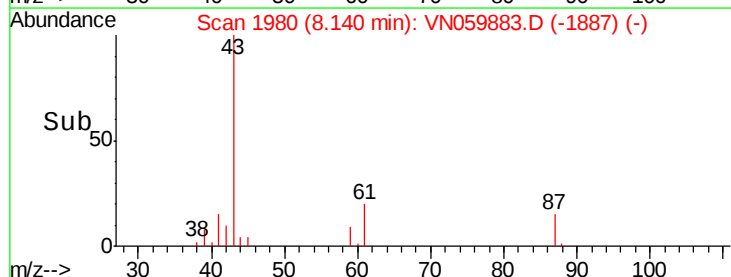
87 14.6 9.5 14.3#

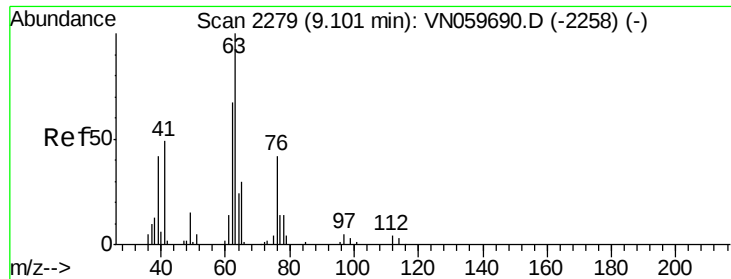


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.406 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN059883.D

Acq: 27 Jan 2020 19:23

Instrument :

MSVOA_N

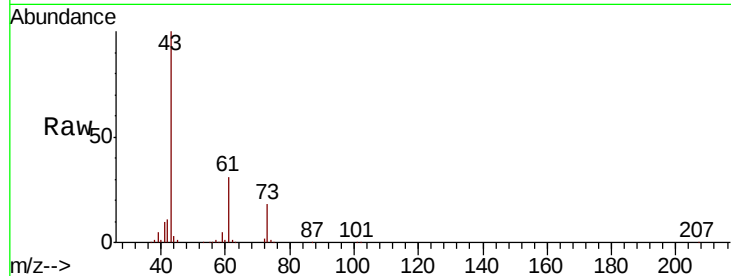
ClientSampled :

Tot Ion: 63 Resp: 819

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

500

400

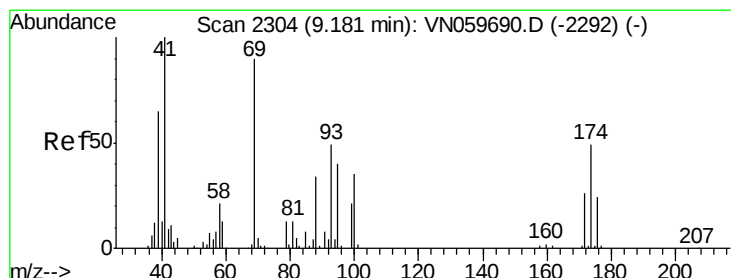
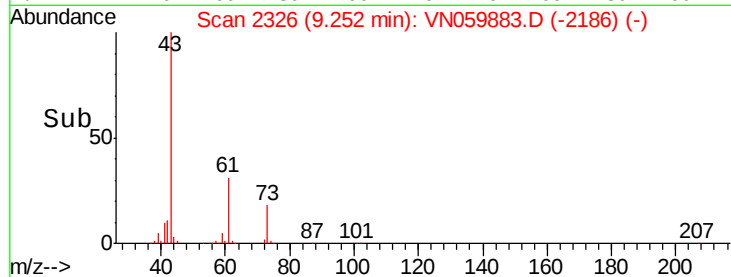
300

200

100

0

Time-->



#48

Methyl methacrylate

Concen: 1.224 ug/l

RT: 9.16 min Scan# 2297

Delta R.T. -0.02 min

Lab File: VN059883.D

Acq: 27 Jan 2020 19:23

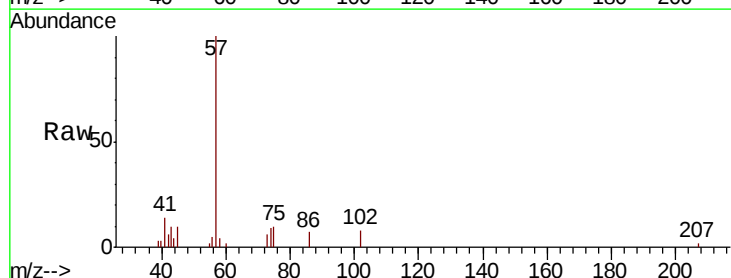
Tgt Ion: 41 Resp: 2413

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

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

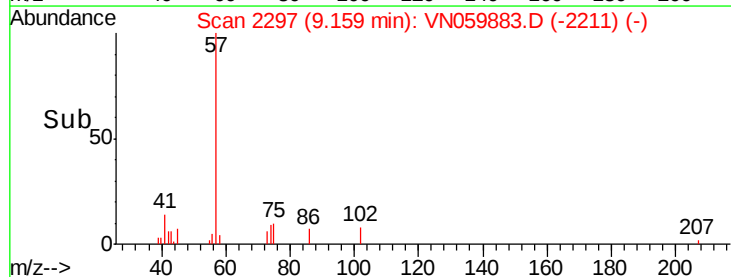
30000

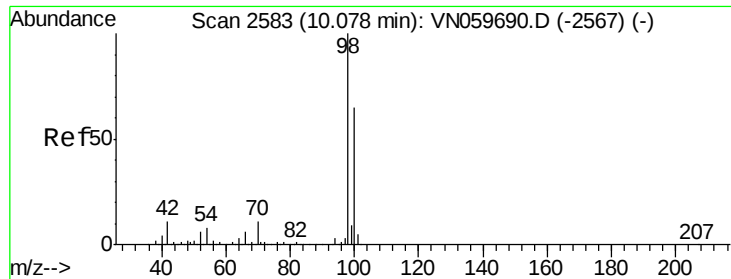
20000

10000

0

Time-->





#50

Toluene-d8

Concen: 51.072 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN059883.D

Acq: 27 Jan 2020 19:23

Instrument :

MSVOA_N

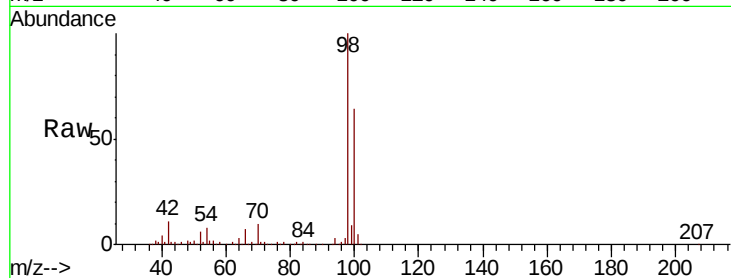
ClientSampled :

Tot Ion: 98 Resp: 370347

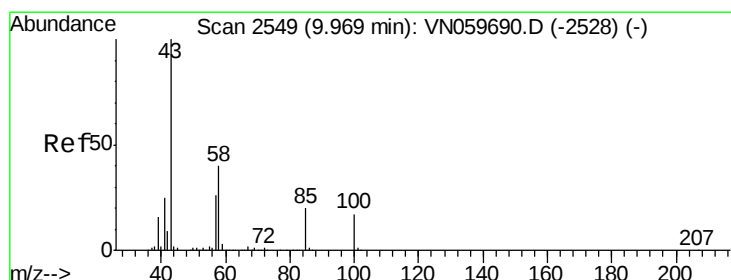
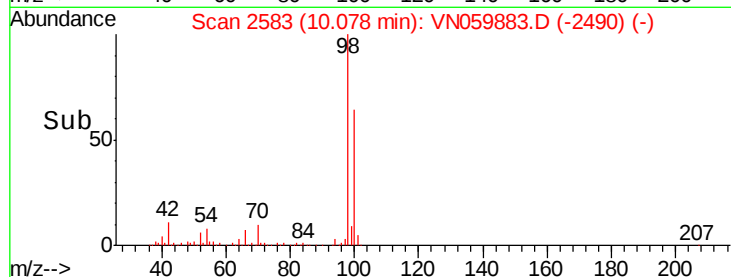
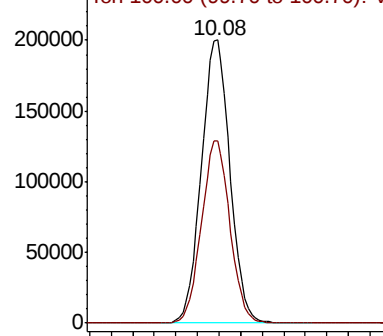
Ion Ratio Lower Upper

98 100

100 64.1 51.2 76.8



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



#51

4-Methyl-2-Pentanone

Concen: 1.123 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN059883.D

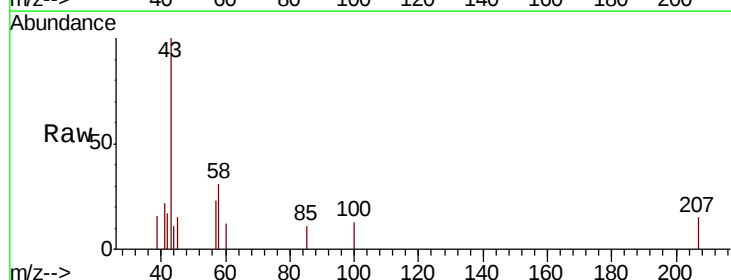
Acq: 27 Jan 2020 19:23

Tgt Ion: 43 Resp: 2863

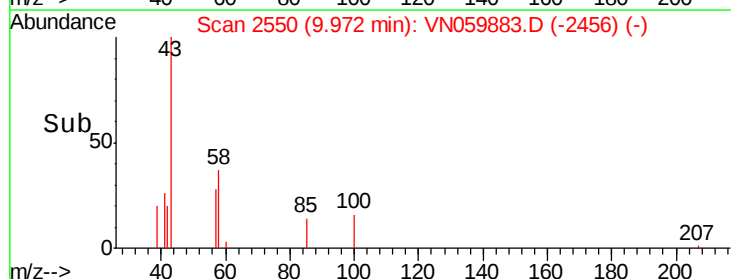
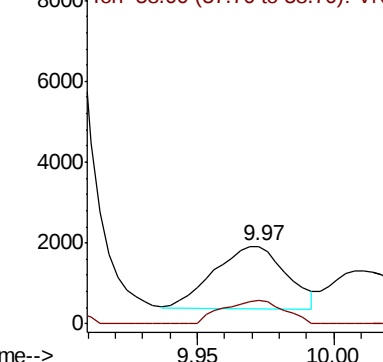
Ion Ratio Lower Upper

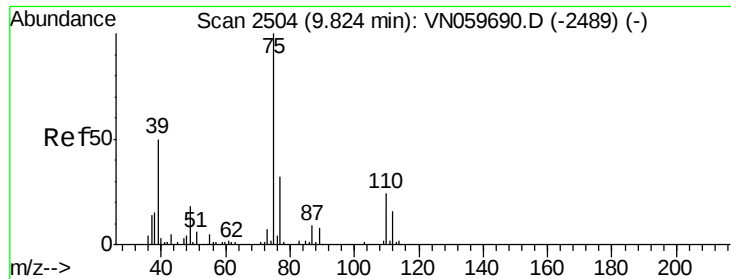
43 100

58 31.8 29.8 44.8



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





#54

cis-1,3-Dichloropropene

Concen: 6.817 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN059883.D

Acq: 27 Jan 2020 19:23

Instrument :
MSVOA_N
ClientSampleId :

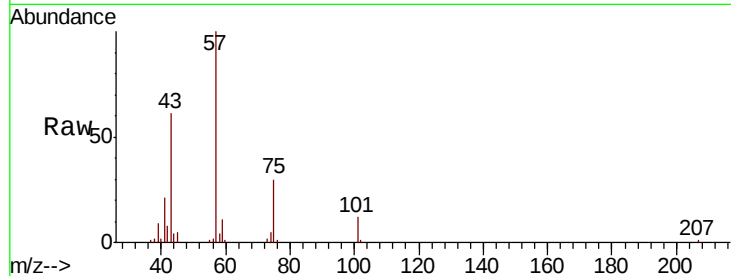
Tot Ion: 75 Resp: 22962

Ion Ratio Lower Upper

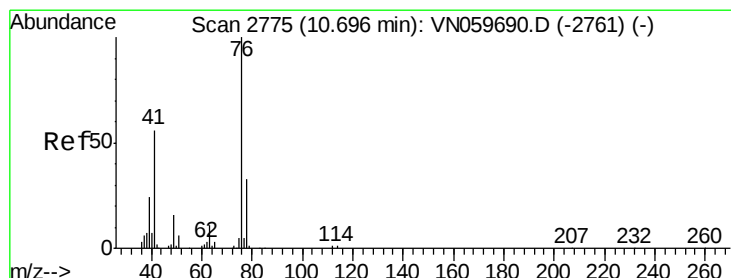
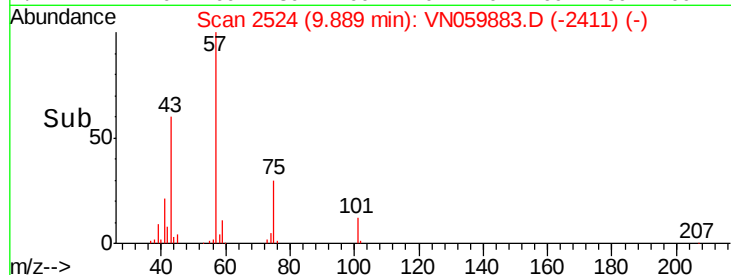
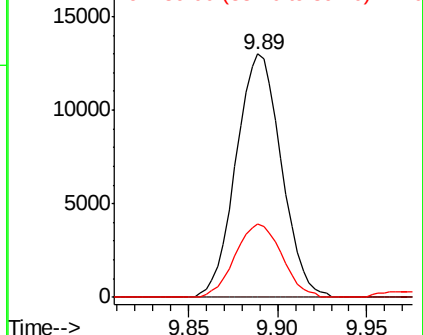
75 100

77 0.0 25.1 37.7#

39 30.0 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: 1.109 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN059883.D

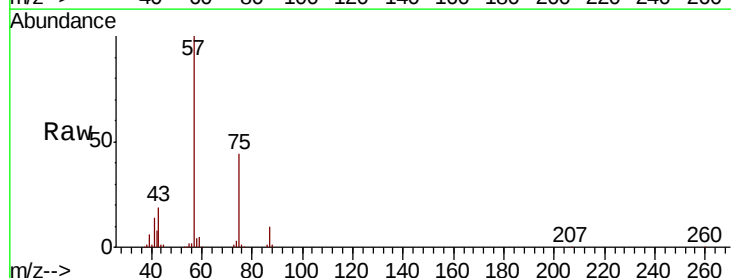
Acq: 27 Jan 2020 19:23

Tgt Ion: 76 Resp: 3590

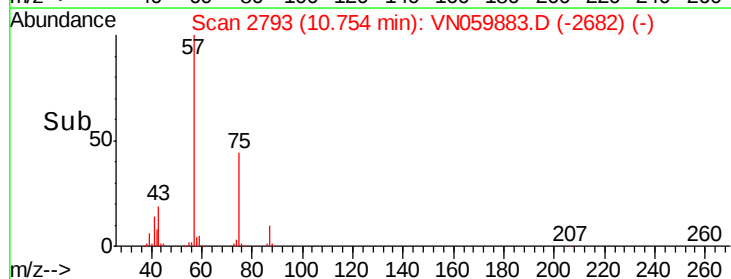
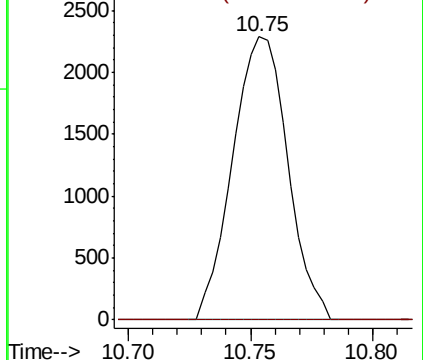
Ion Ratio Lower Upper

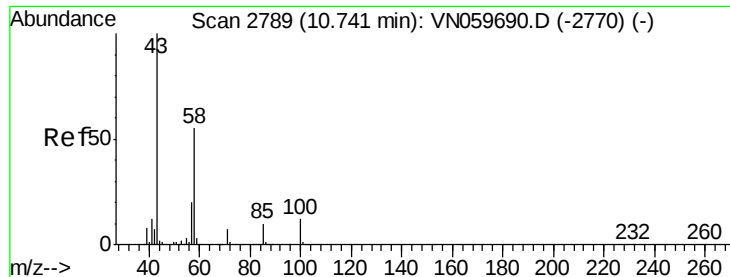
76 100

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

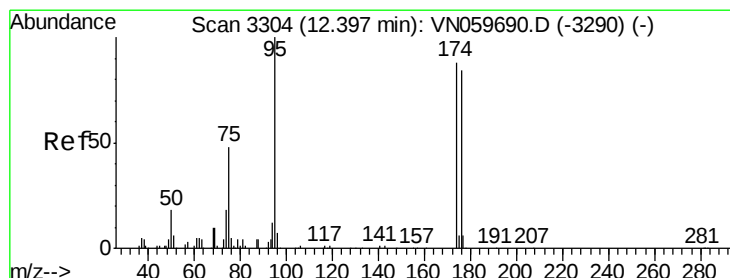
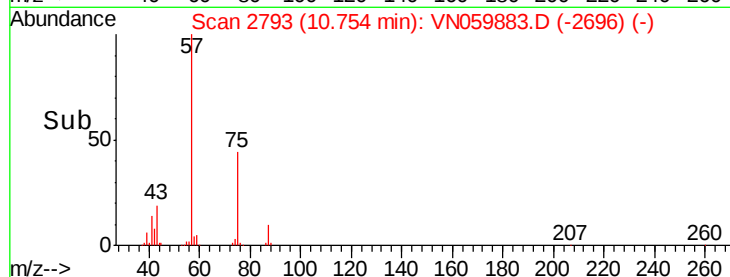
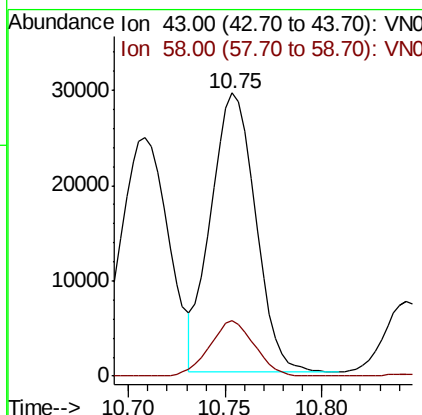
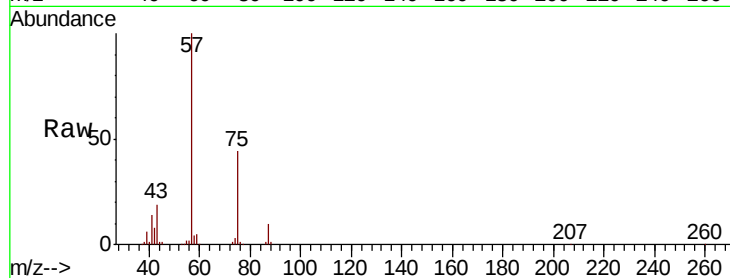




#59
2-Hexanone
Concen: 25.145 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN059883.D
Acq: 27 Jan 2020 19:23

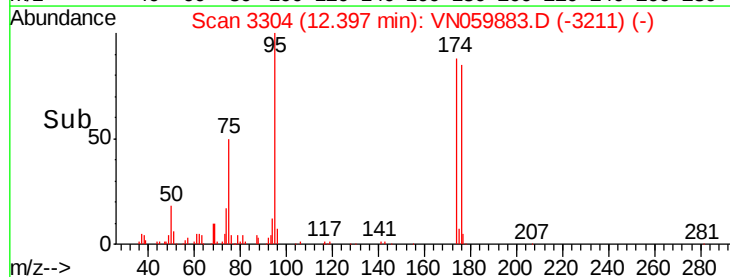
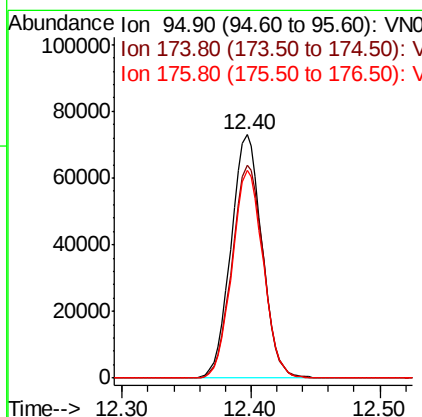
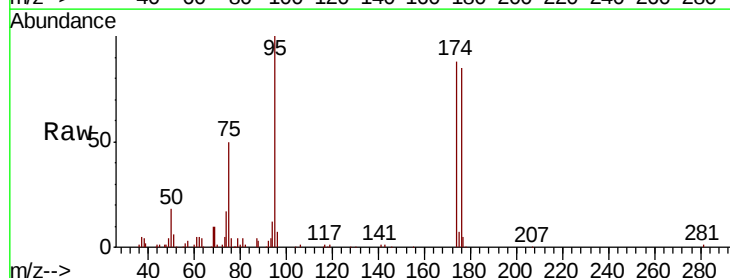
Instrument :
MSVOA_N
ClientSampleId :

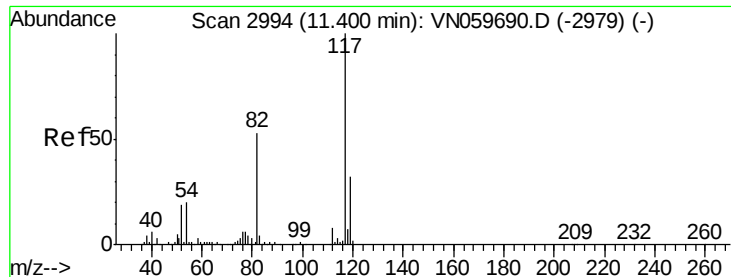
Tot Ion: 43 Resp: 47214
Ion Ratio Lower Upper
43 100
58 19.9 25.8 77.3#



#62
4-Bromofluorobenzene
Concen: 46.650 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN059883.D
Acq: 27 Jan 2020 19:23

Tgt Ion: 95 Resp: 121950
Ion Ratio Lower Upper
95 100
174 88.5 0.0 151.4
176 85.3 0.0 146.0

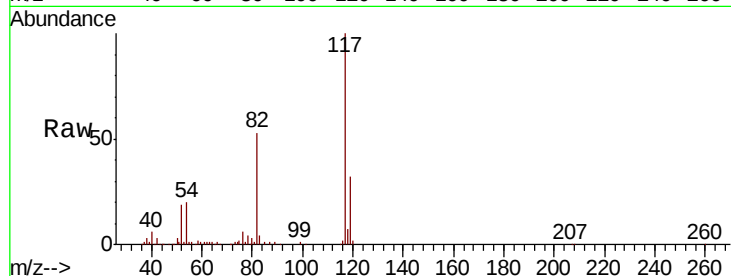




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN059883.D
Acq: 27 Jan 2020 19:23

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.4	45.9	68.9
119	31.9	25.5	38.3

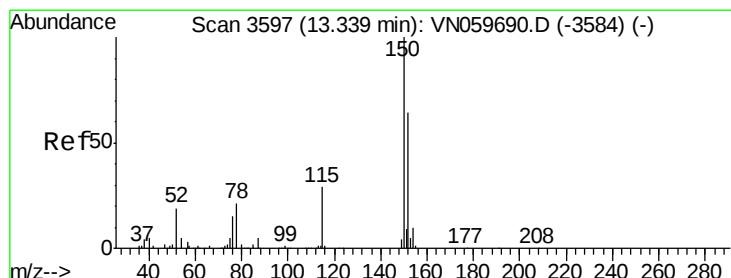
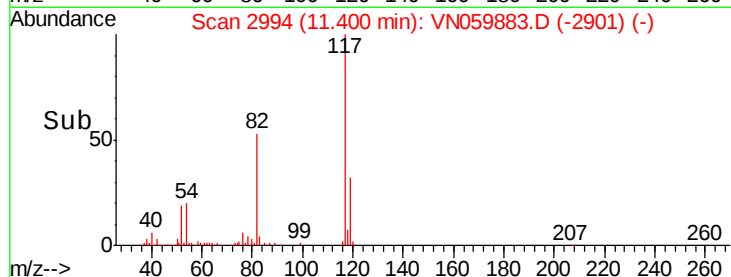
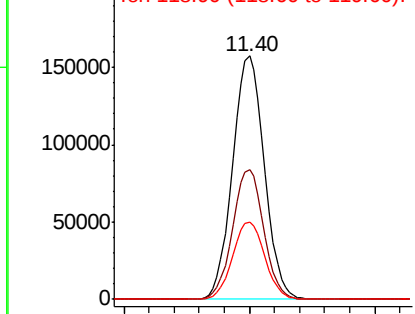


Abundance

Ion 116.90 (116.60 to 117.60): V

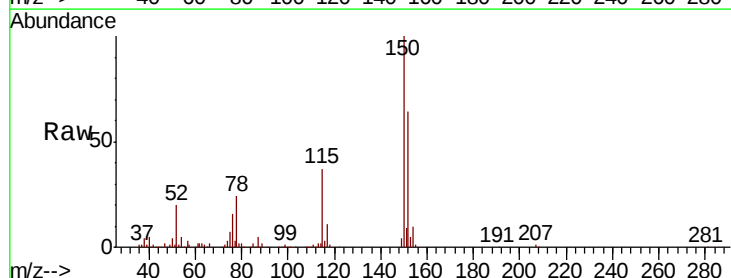
Ion 82.00 (81.70 to 82.70): V

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: VN059883.D
Acq: 27 Jan 2020 19:23

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.5	30.3	90.9
150	157.3	0.0	345.2

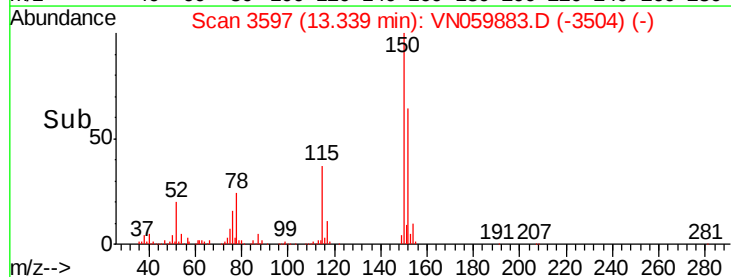
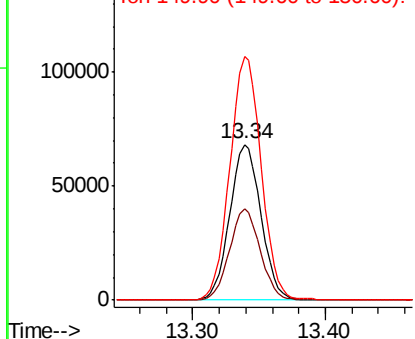


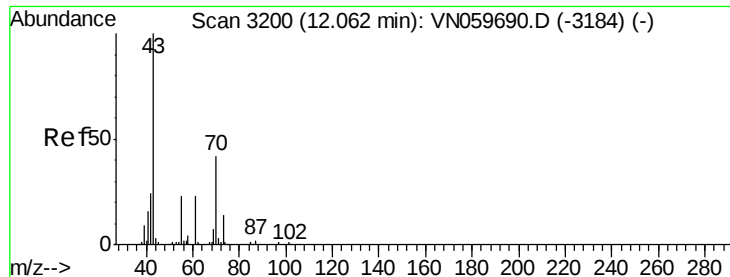
Abundance

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: 0.702 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN059883.D

Acq: 27 Jan 2020 19:23

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 2226

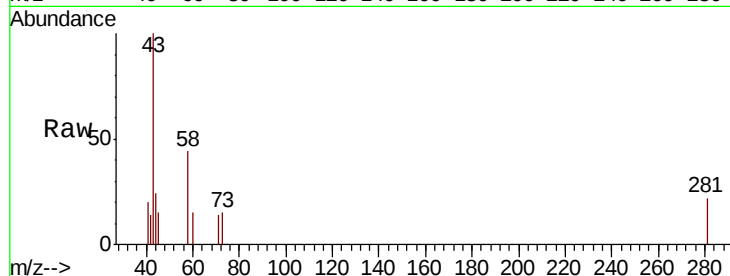
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

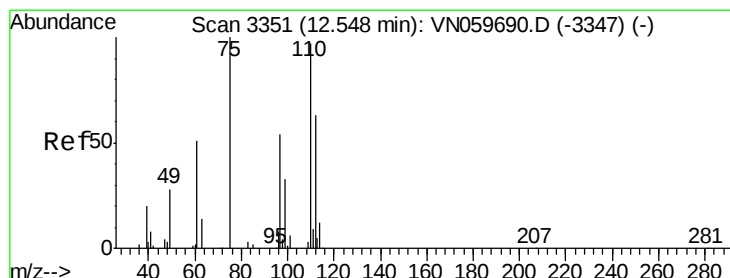
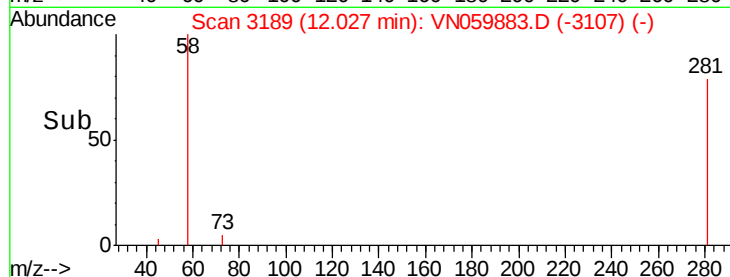
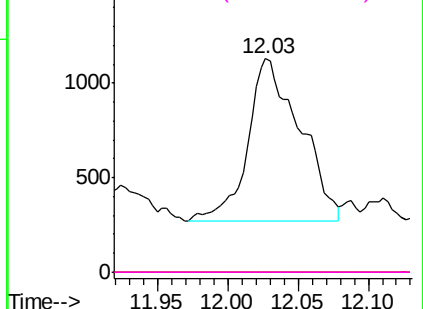


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 32.701 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059883.D

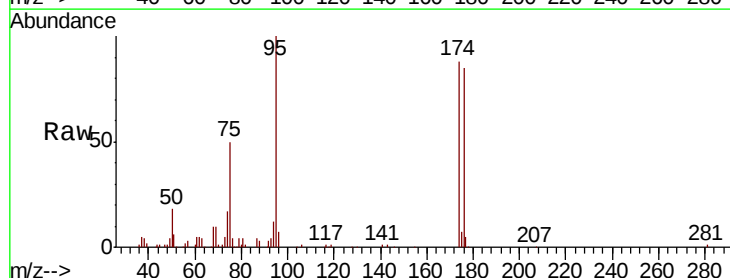
Acq: 27 Jan 2020 19:23

Tgt Ion: 75 Resp: 61360

Ion Ratio Lower Upper

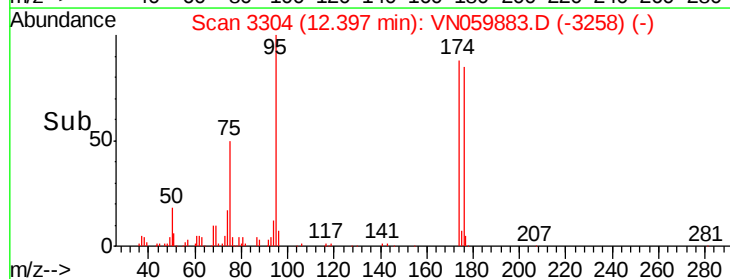
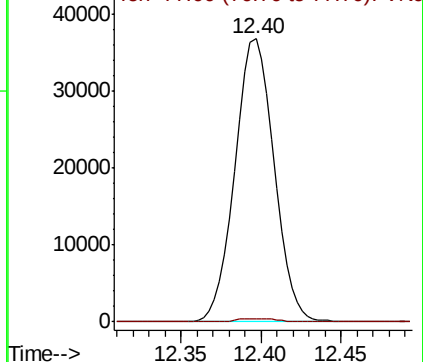
75 100

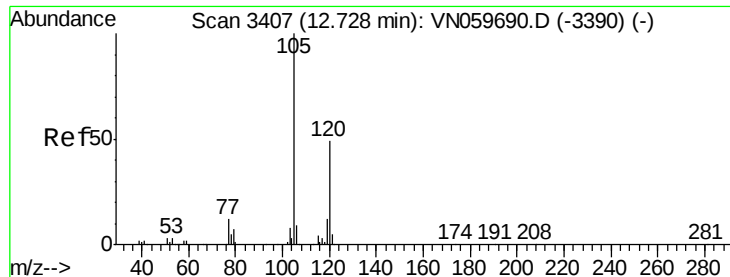
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

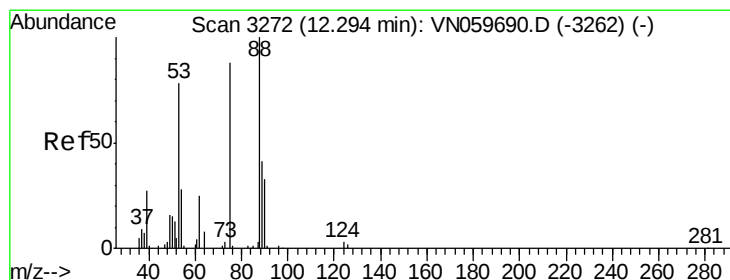
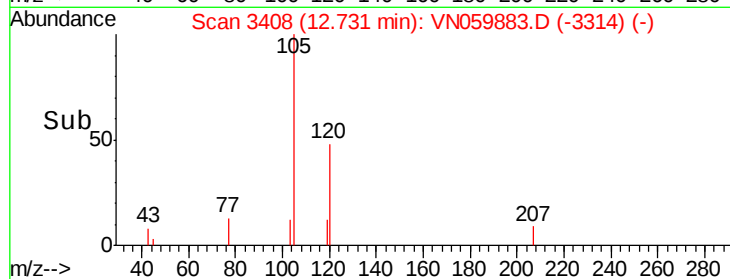
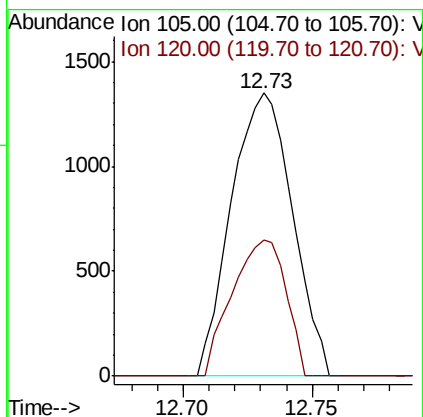
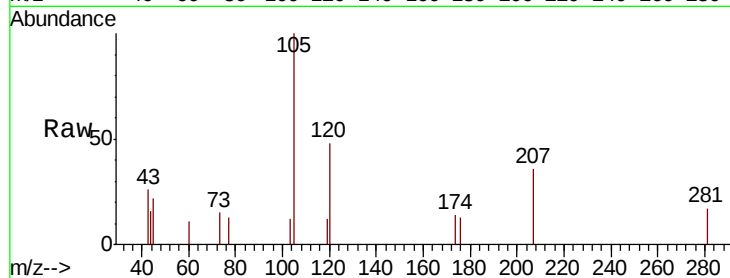




#80
 1,3,5-Trimethylbenzene
 Concen: 0.324 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN059883.D
 Acq: 27 Jan 2020 19:23

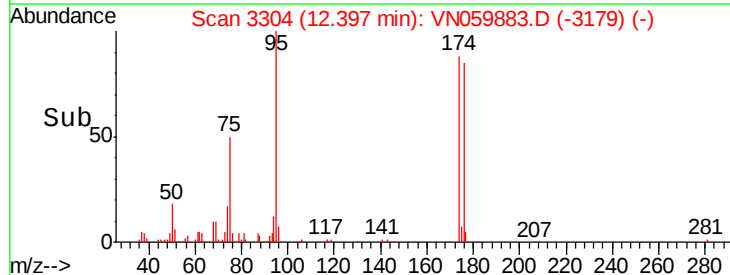
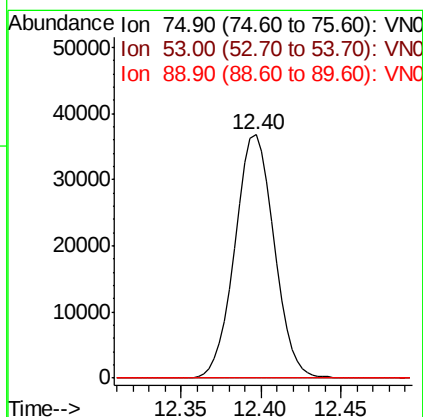
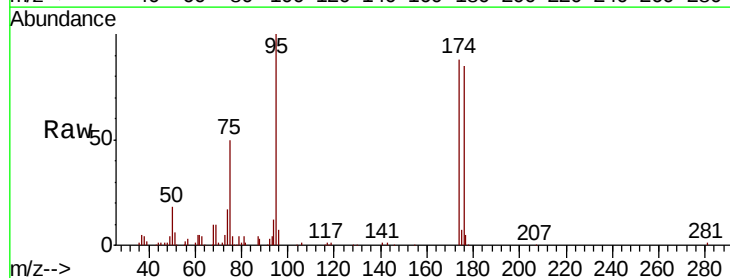
Instrument :
 MSVOA_N
 ClientSampled :

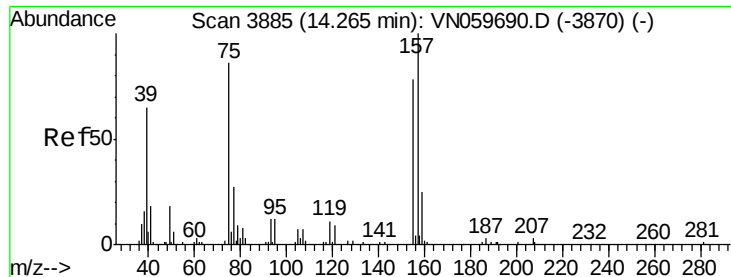
Tot Ion:105 Resp: 2230
 Ion Ratio Lower Upper
 105 100
 120 42.3 24.1 72.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 70.226 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN059883.D
 Acq: 27 Jan 2020 19:23

Tgt Ion: 75 Resp: 61360
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.1 117.1#
 89 0.0 35.4 53.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.26 min Scan# 3884

Delta R.T. -0.00 min

Lab File: VN059883.D

Acq: 27 Jan 2020 19:23

Instrument :

MSVOA_N

ClientSampleId :

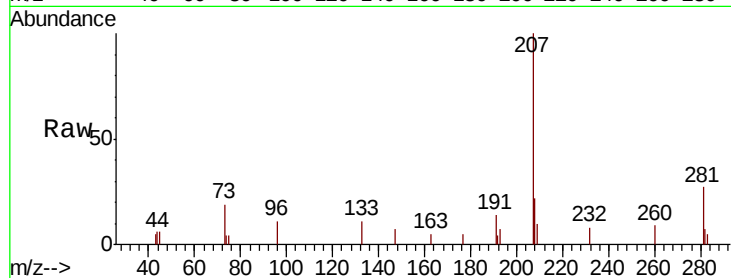
Tot Ion: 75 Resp: 64

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

