

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031220\
 Data File : VN060477.D
 Acq On : 12 Mar 2020 14:25
 Operator : JC/MD
 Sample : L1893-16
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-4-SA

Quant Time: Mar 13 02:04:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	195625	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	324552	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	305354	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	138380	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	127301	50.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.44%	
35) Dibromofluoromethane	7.57	113	95959	63.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	127.40%	
50) Toluene-d8	10.08	98	401797	52.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.40%	
62) 4-Bromofluorobenzene	12.40	95	148640	51.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.86%	

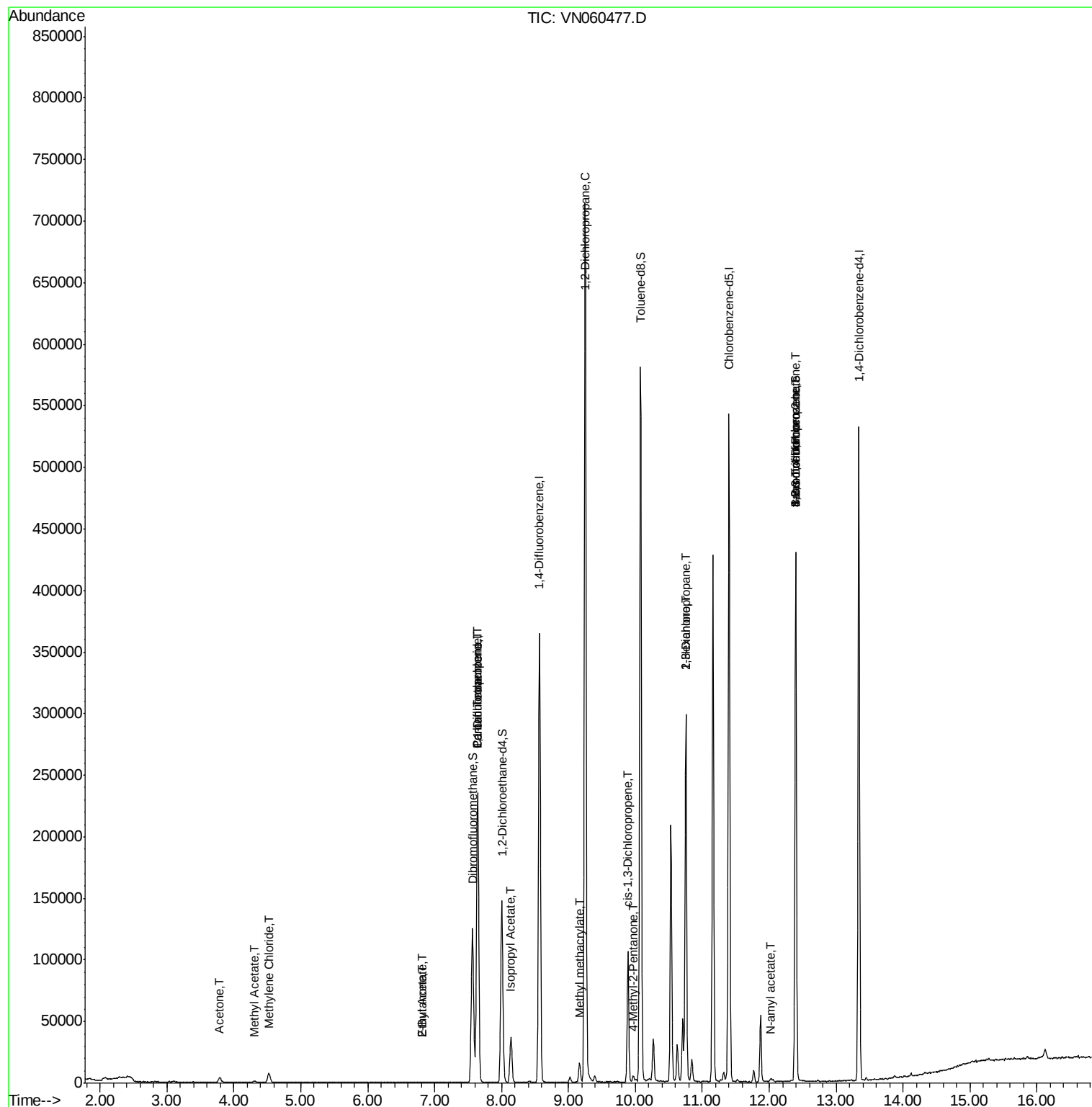
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	7516	9.27	ug/l	93
18) Methyl Acetate	4.30	43	1302	0.48	ug/l	# 52
20) Methylene Chloride	4.52	84	5529	2.48	ug/l	97
25) 2-Butanone	6.82	43	1540	1.18	ug/l	# 49
31) Cyclohexane	7.64	56	4294	Below Cal		# 1
36) 1,1-Dichloropropene	7.64	75	15268	4.94	ug/l	# 49
37) Ethyl Acetate	6.82	43	1540	0.53	ug/l	# 68
38) Carbon Tetrachloride	7.64	117	18727	6.22	ug/l	# 16
43) Isopropyl Acetate	8.14	43	44501	8.68	ug/l	# 90
45) 1,2-Dichloropropane	9.25	63	681	0.29	ug/l	# 44
48) Methyl methacrylate	9.16	41	2120	0.91	ug/l	# 13
51) 4-Methyl-2-Pentanone	9.97	43	3855	1.33	ug/l	# 85
54) cis-1,3-Dichloropropene	9.89	75	18390	4.66	ug/l	# 60
57) 1,3-Dichloropropane	10.76	76	2889	0.78	ug/l	# 42
59) 2-Hexanone	10.75	43	44116	20.67	ug/l	# 53
71) Bromoform	12.39	173	385	0.23	ug/l	# 1
74) N-amyl acetate	12.02	43	3027	0.68	ug/l	# 44
76) 1,2,3-Trichloropropane	12.39	75	75813	24.97	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.39	75	75813	68.93	ug/l	# 8
95) Naphthalene	15.13	128	182	Below Cal		# 69

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

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Quant Time: Mar 13 02:04:15 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
Quant Title : SW846 8260
QLast Update : Thu Feb 27 13:52:50 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060477.D

Acq: 12 Mar 2020 14:25

Instrument :

MSVOA_N

ClientSampled :

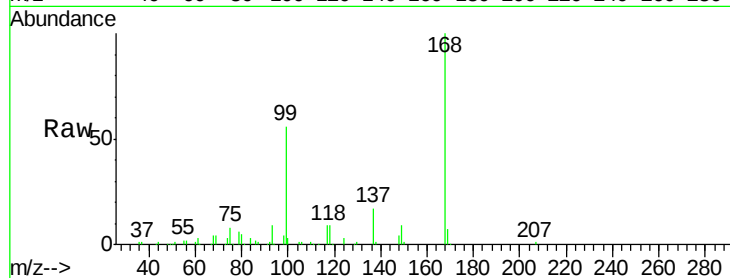
TP-4-SA

Tgt Ion:168 Resp: 195625

Ion Ratio Lower Upper

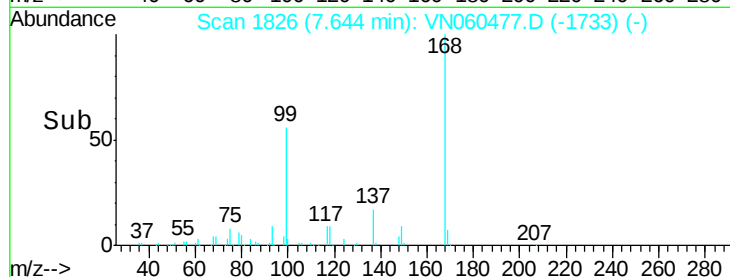
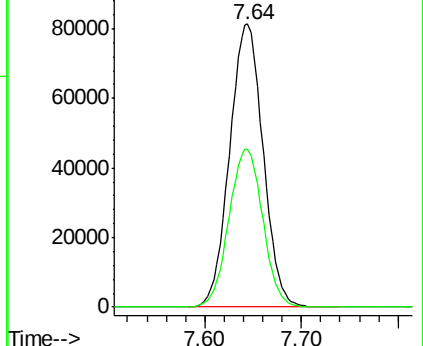
168 100

99 55.9 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 9.27 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060477.D

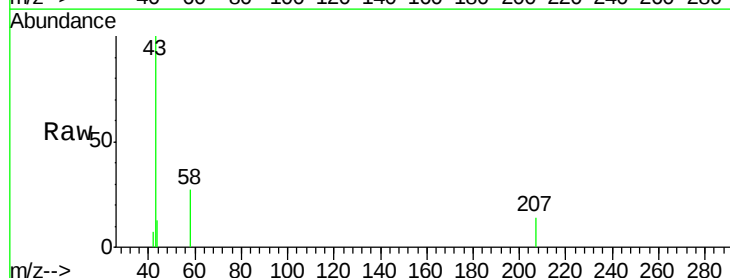
Acq: 12 Mar 2020 14:25

Tgt Ion: 43 Resp: 7516

Ion Ratio Lower Upper

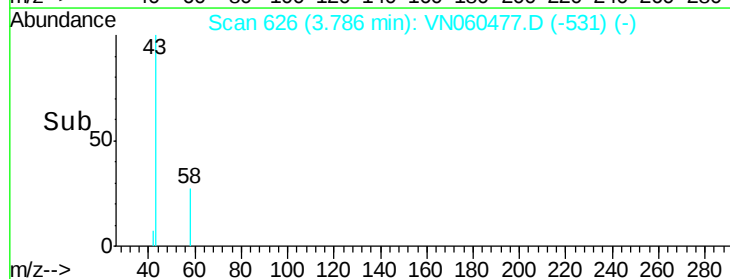
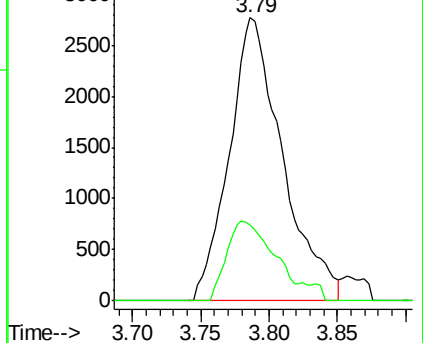
43 100

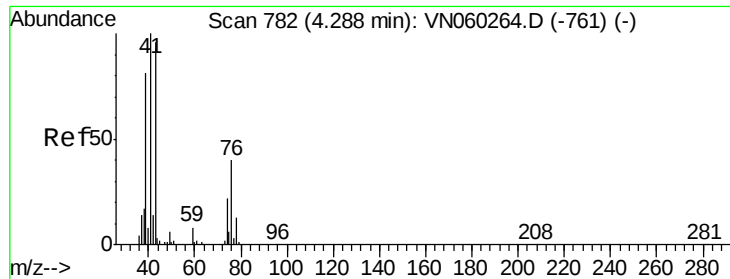
58 26.9 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

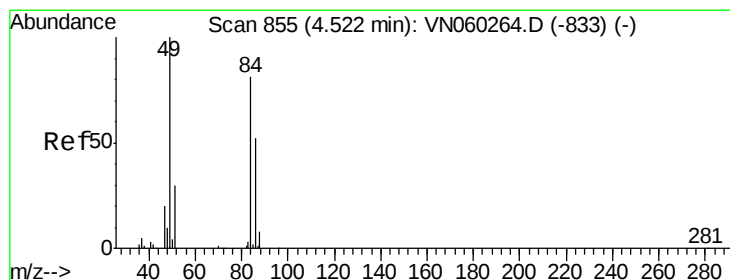
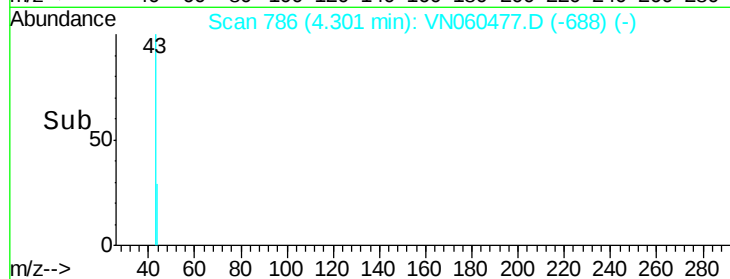
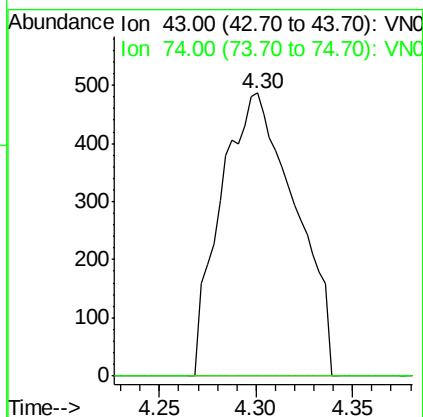
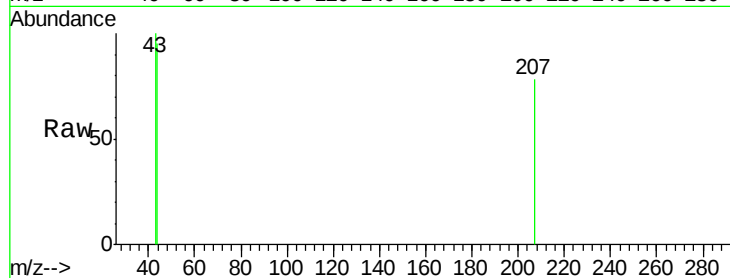




#18
Methyl Acetate
Concen: 0.48 ug/l
RT: 4.30 min Scan# 786
Delta R.T. 0.01 min
Lab File: VN060477.D
Acq: 12 Mar 2020 14:25

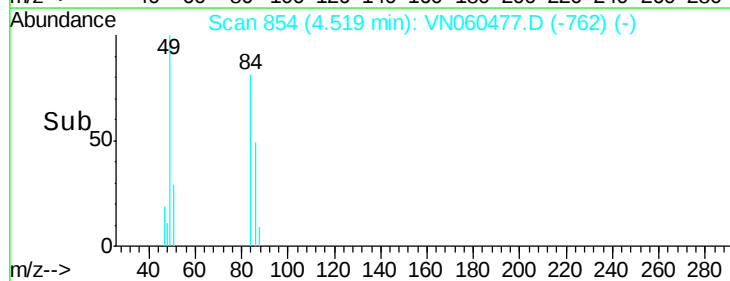
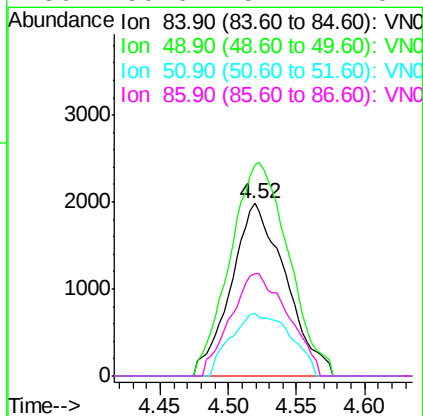
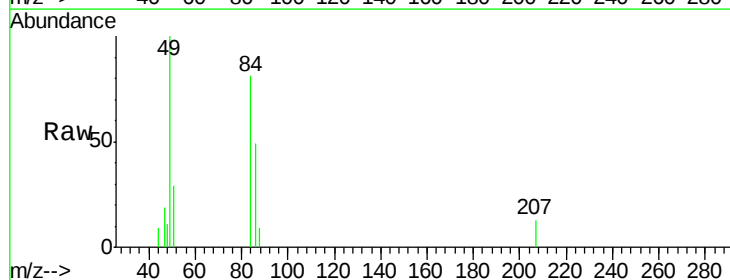
Instrument :
MSVOA_N
ClientSampled :
TP-4-SA

Tgt Ion: 43 Resp: 1302
Ion Ratio Lower Upper
43 100
74 0.0 18.8 28.2#



#20
Methylene Chloride
Concen: 2.48 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN060477.D
Acq: 12 Mar 2020 14:25

Tgt Ion: 84 Resp: 5529
Ion Ratio Lower Upper
84 100
49 122.7 99.3 148.9
51 36.2 30.1 45.1
86 59.6 51.1 76.7





#25

2-Butanone

Concen: 1.18 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. 0.02 min

Lab File: VN060477.D

Acq: 12 Mar 2020 14:25

Instrument :

MSVOA_N

ClientSampled :

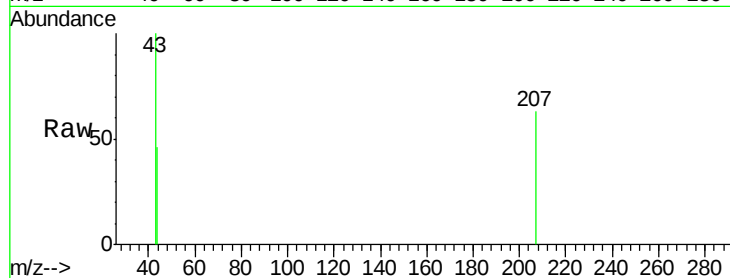
TP-4-SA

Tgt Ion: 43 Resp: 1540

Ion Ratio Lower Upper

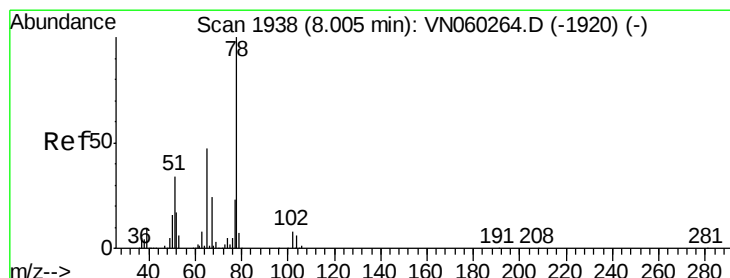
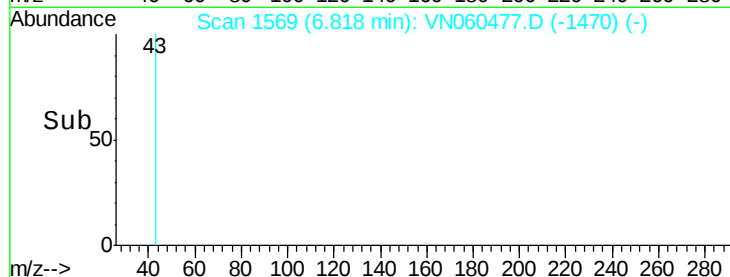
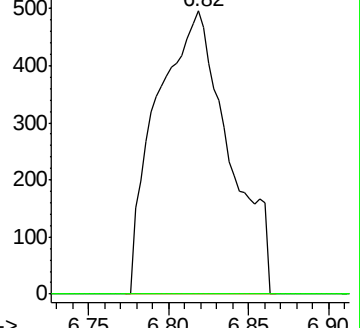
43 100

72 0.0 20.9 31.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 50.72 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060477.D

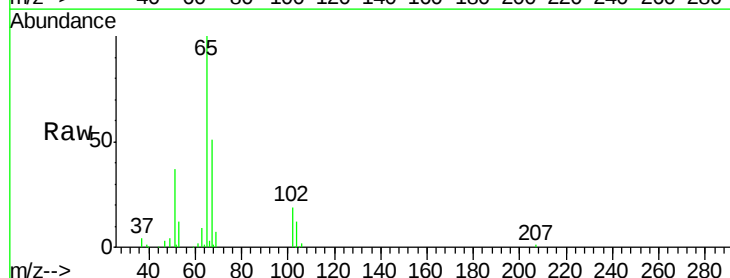
Acq: 12 Mar 2020 14:25

Tgt Ion: 65 Resp: 127301

Ion Ratio Lower Upper

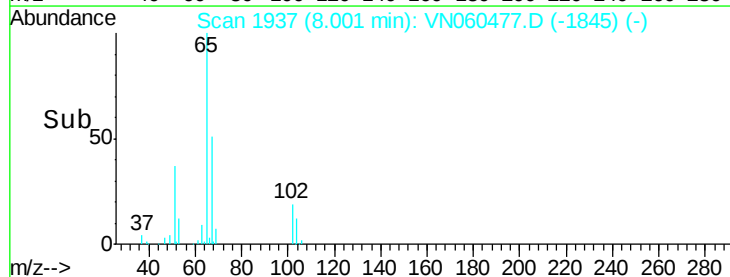
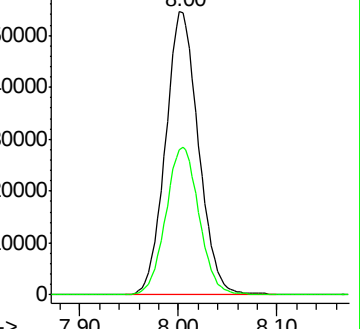
65 100

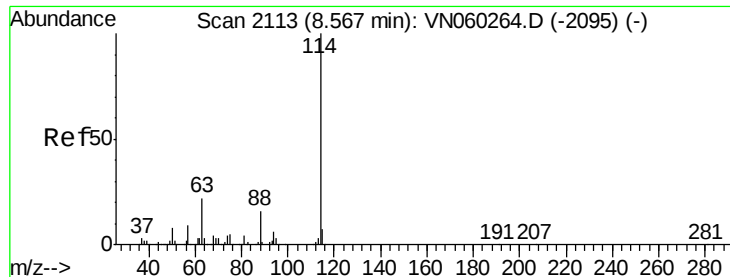
67 52.4 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN060477.D

Acq: 12 Mar 2020 14:25

Instrument :

MSVOA_N

ClientSampleId :

TP-4-SA

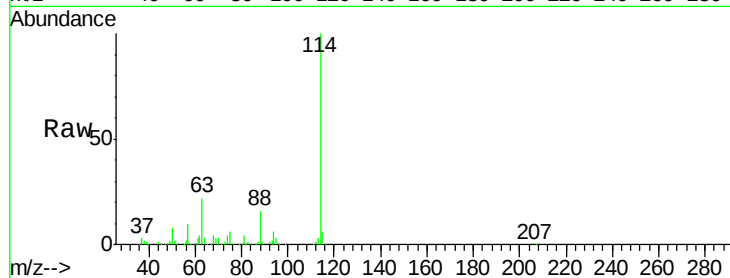
Tgt Ion:114 Resp: 324552

Ion Ratio Lower Upper

114 100

63 22.2 0.0 43.2

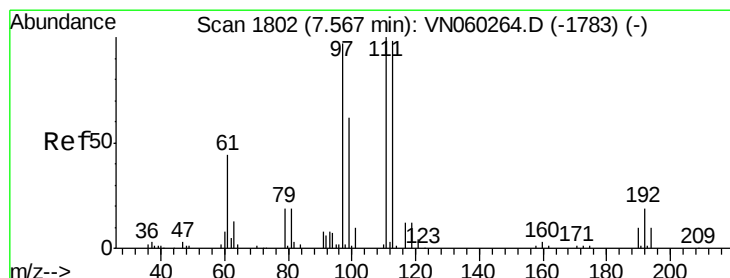
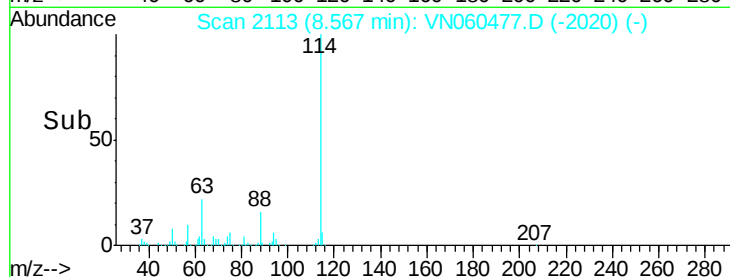
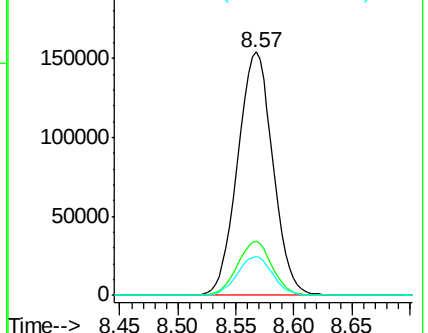
88 15.9 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 63.70 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN060477.D

Acq: 12 Mar 2020 14:25

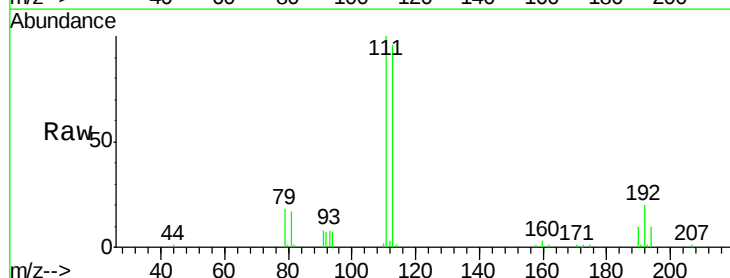
Tgt Ion:113 Resp: 95959

Ion Ratio Lower Upper

113 100

111 103.2 82.4 123.6

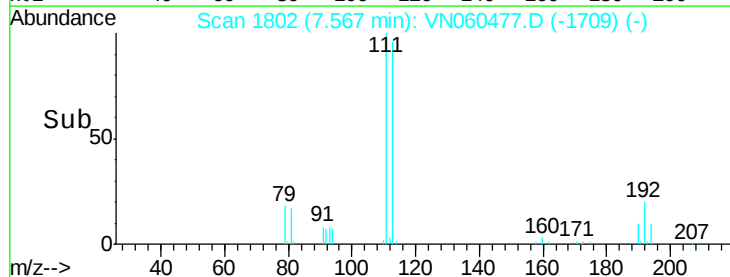
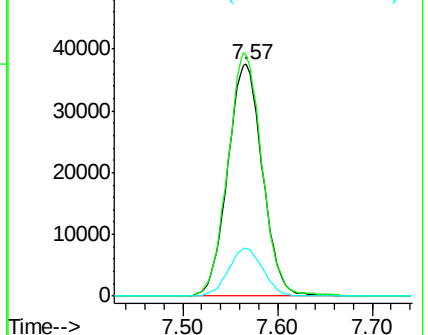
192 20.4 16.2 24.2

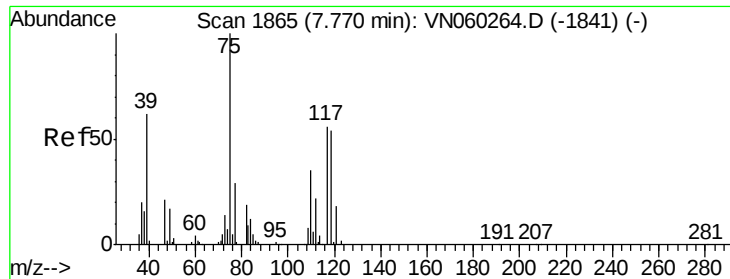


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

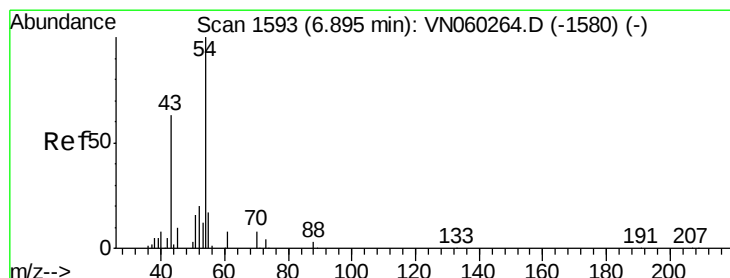
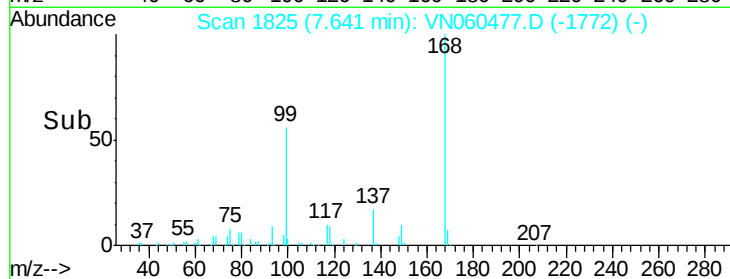
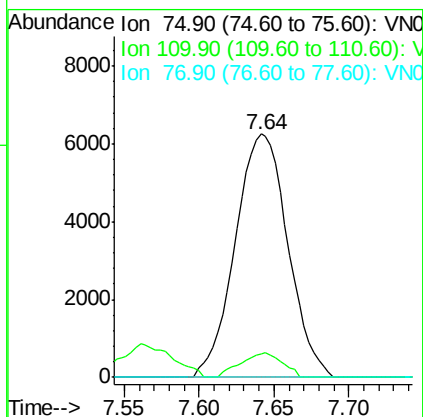
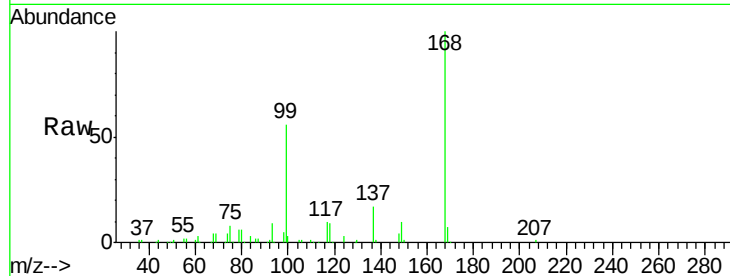




#36
 1,1-Dichloropropene
 Concen: 4.94 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060477.D
 Acq: 12 Mar 2020 14:25

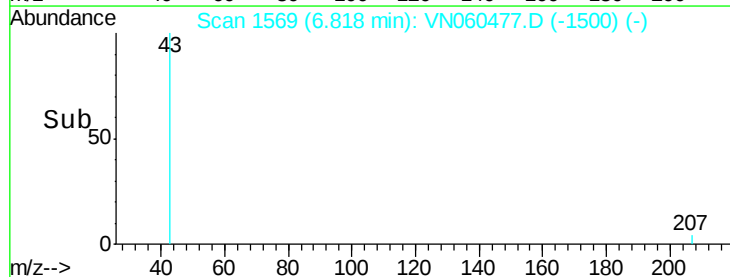
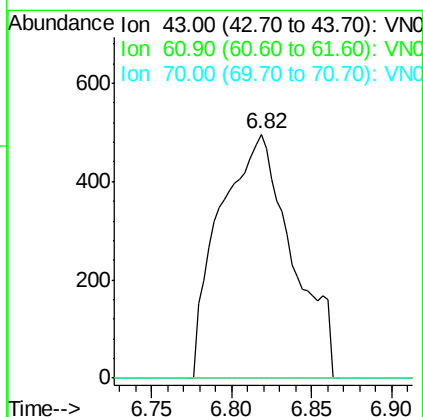
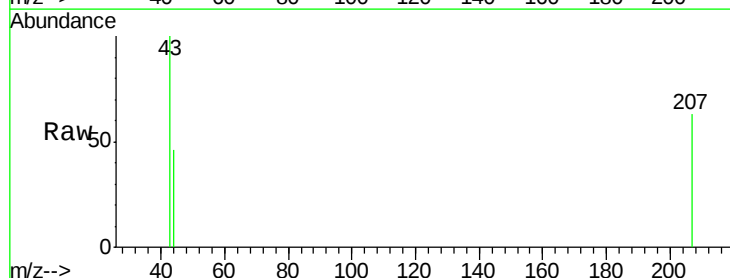
Instrument :
 MSVOA_N
 ClientSampled :
 TP-4-SA

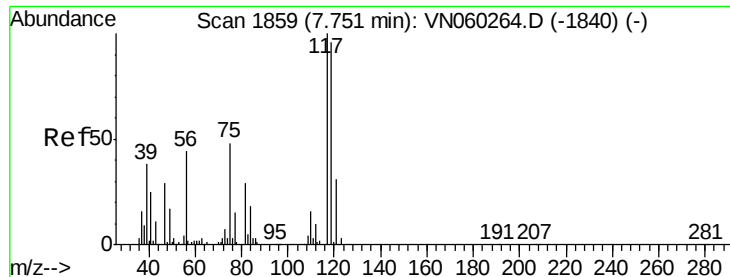
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.0	17.3	52.0#
77	0.0	24.2	36.2#



#37
 Ethyl Acetate
 Concen: 0.53 ug/l
 RT: 6.82 min Scan# 1569
 Delta R.T. -0.08 min
 Lab File: VN060477.D
 Acq: 12 Mar 2020 14:25

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.1	16.7#
70	0.0	8.4	12.6#





#38

Carbon Tetrachloride

Concen: 6.22 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060477.D

Acq: 12 Mar 2020 14:25

Instrument :

MSVOA_N

ClientSampled :

TP-4-SA

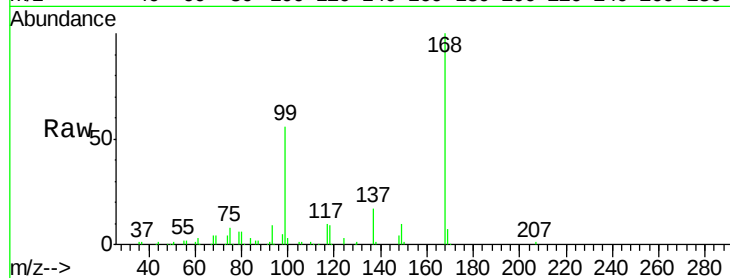
Tgt Ion:117 Resp: 18727

Ion Ratio Lower Upper

117 100

119 4.7 76.7 115.1#

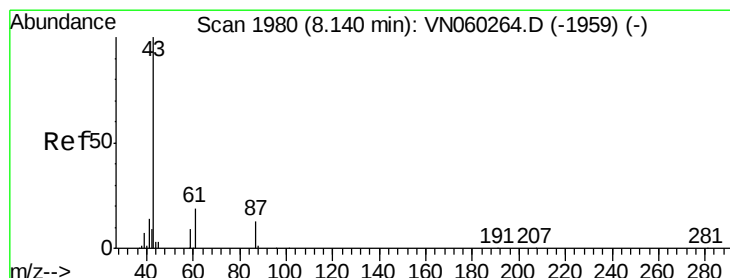
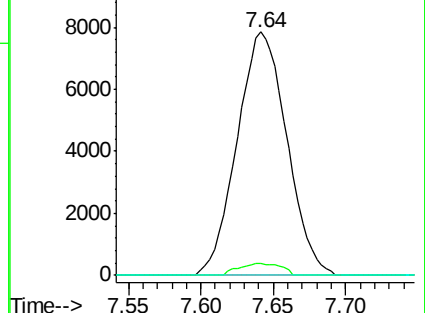
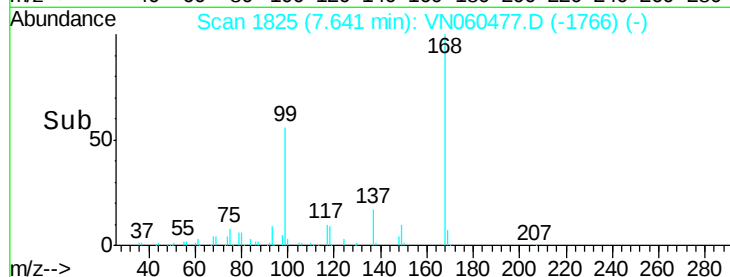
121 0.0 24.5 36.7#



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: 8.68 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060477.D

Acq: 12 Mar 2020 14:25

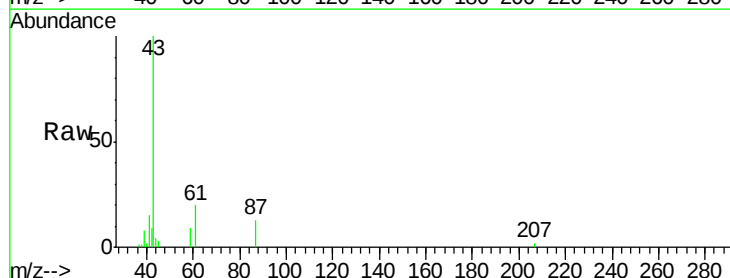
Tgt Ion: 43 Resp: 44501

Ion Ratio Lower Upper

43 100

61 19.0 20.9 31.3#

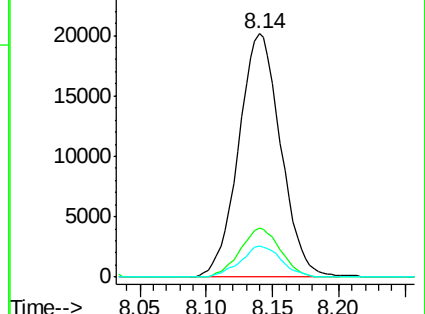
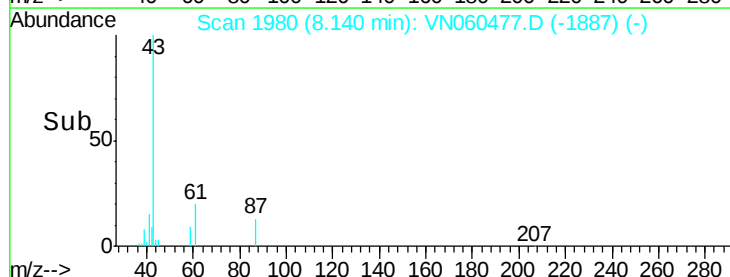
87 12.4 10.6 16.0

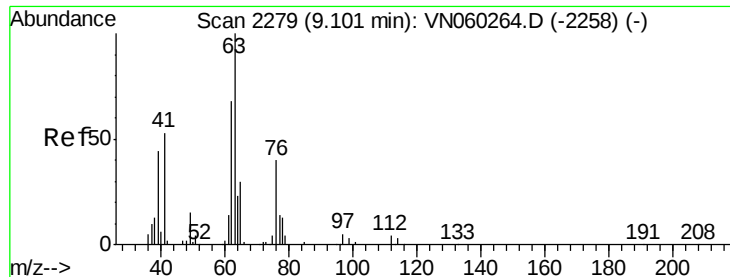


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.29 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN060477.D

Acq: 12 Mar 2020 14:25

Instrument :

MSVOA_N

ClientSampleId :

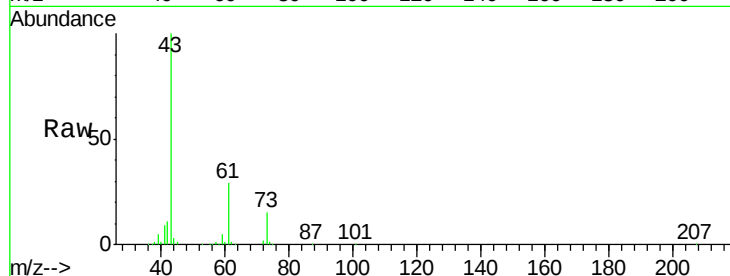
TP-4-SA

Tgt Ion: 63 Resp: 681

Ion Ratio Lower Upper

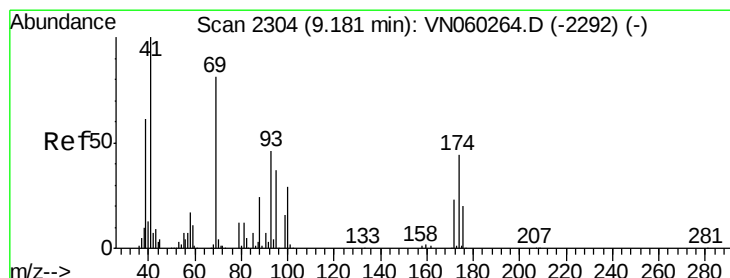
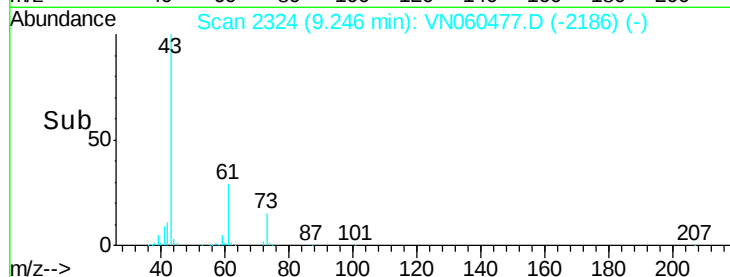
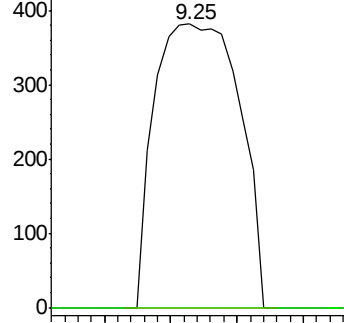
63 100

65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VNC

Ion 64.90 (64.60 to 65.60): VNC



#48

Methyl methacrylate

Concen: 0.91 ug/l

RT: 9.16 min Scan# 2296

Delta R.T. -0.03 min

Lab File: VN060477.D

Acq: 12 Mar 2020 14:25

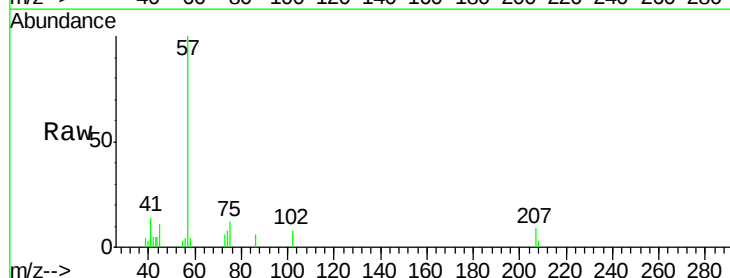
Tgt Ion: 41 Resp: 2120

Ion Ratio Lower Upper

41 100

69 0.0 66.7 100.1#

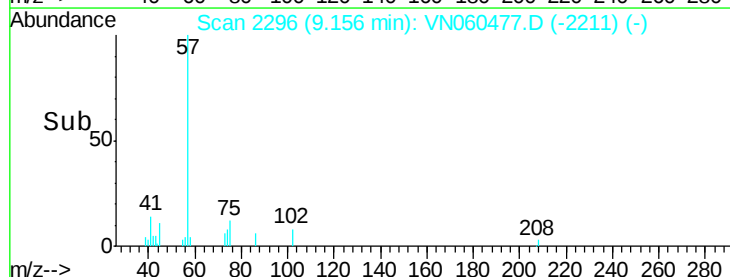
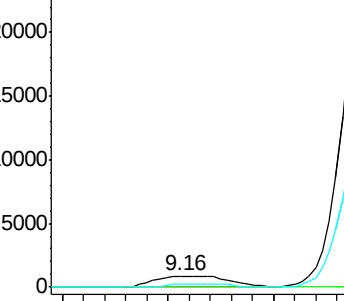
39 0.0 50.1 75.1#

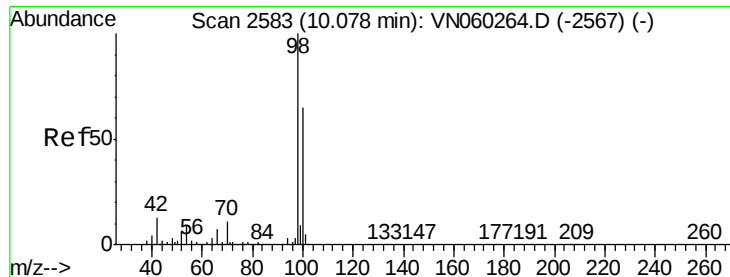


Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC





#50

Toluene-d8

Concen: 52.70 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN060477.D

Acq: 12 Mar 2020 14:25

Instrument :

MSVOA_N

ClientSampleId :

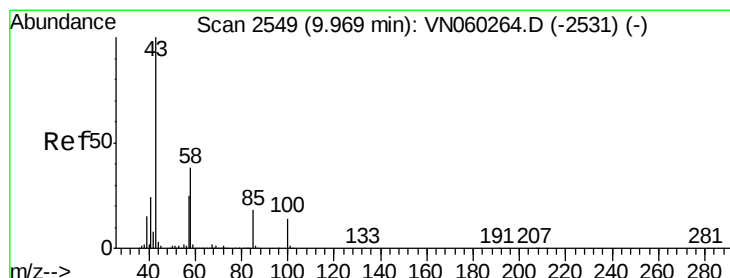
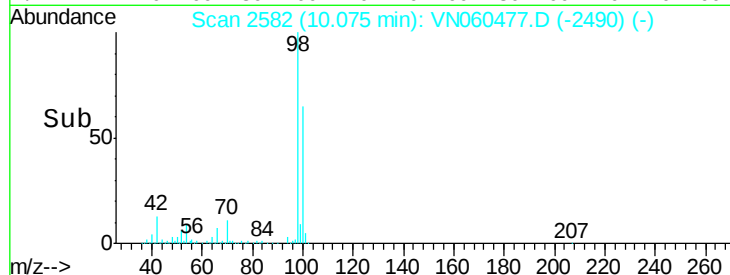
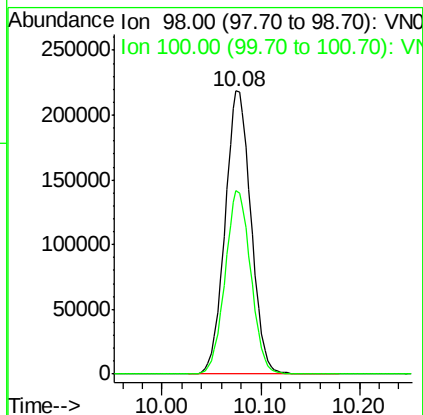
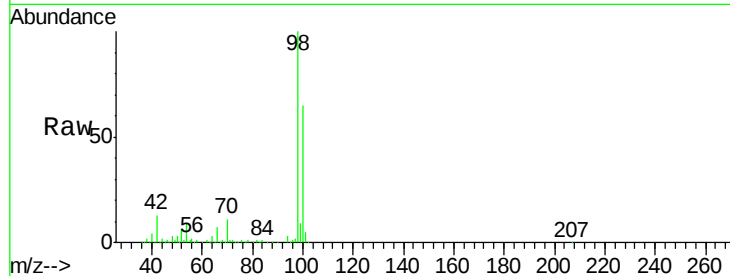
TP-4-SA

Tgt Ion: 98 Resp: 401797

Ion Ratio Lower Upper

98 100

100 64.5 52.2 78.2



#51

4-Methyl-2-Pentanone

Concen: 1.33 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060477.D

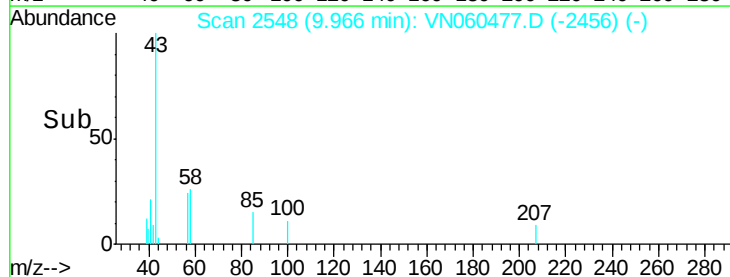
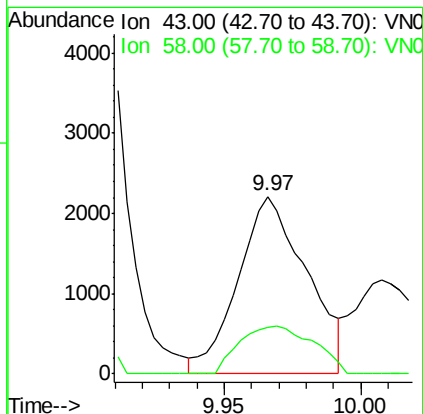
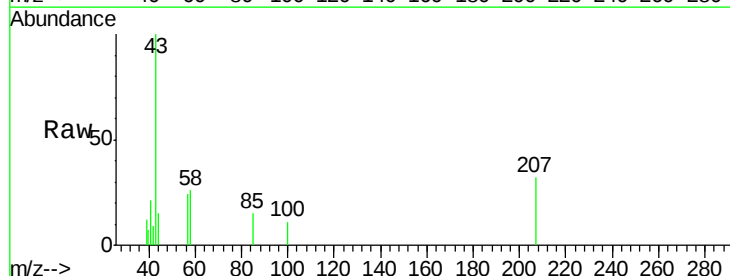
Acq: 12 Mar 2020 14:25

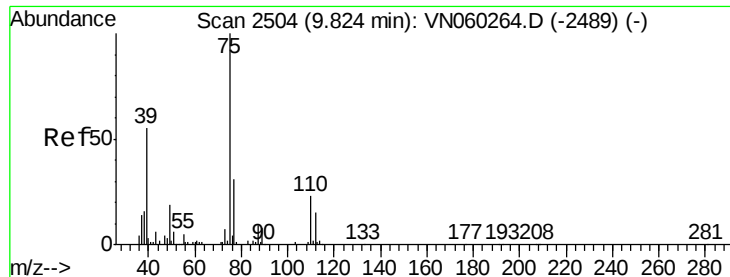
Tgt Ion: 43 Resp: 3855

Ion Ratio Lower Upper

43 100

58 29.2 30.9 46.3#





#54

cis-1,3-Dichloropropene

Concen: 4.66 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060477.D

Acq: 12 Mar 2020 14:25

Instrument :

MSVOA_N

ClientSampled :

TP-4-SA

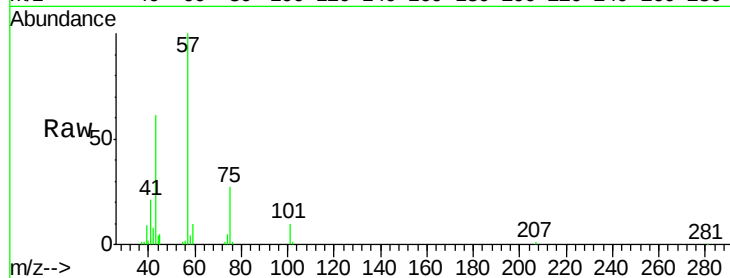
Tgt Ion: 75 Resp: 18390

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

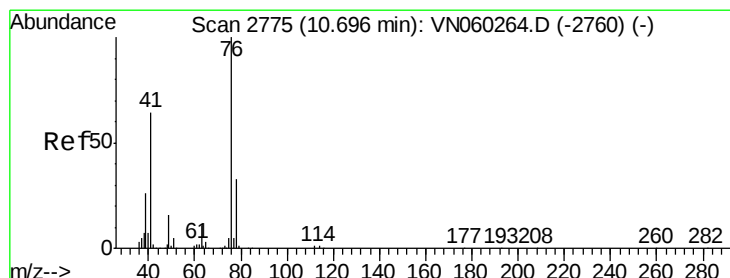
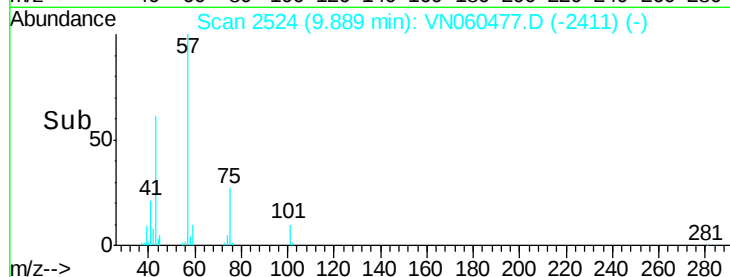
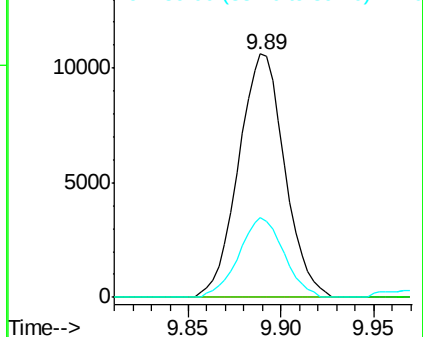
39 32.7 43.8 65.8#



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: 0.78 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.06 min

Lab File: VN060477.D

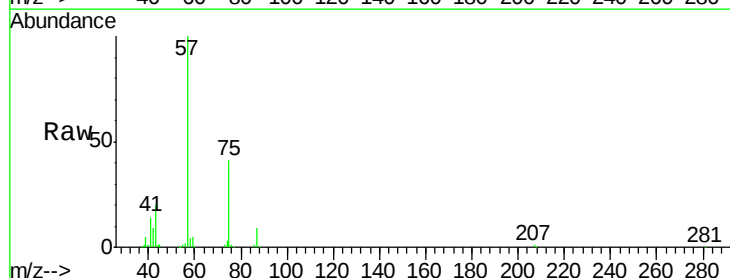
Acq: 12 Mar 2020 14:25

Tgt Ion: 76 Resp: 2889

Ion Ratio Lower Upper

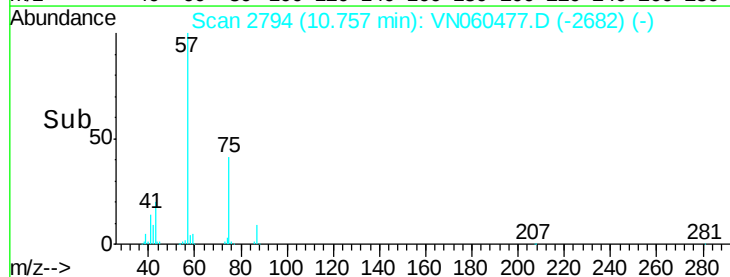
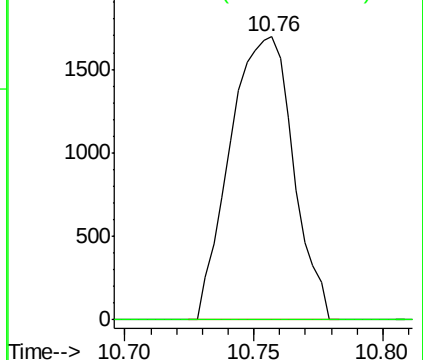
76 100

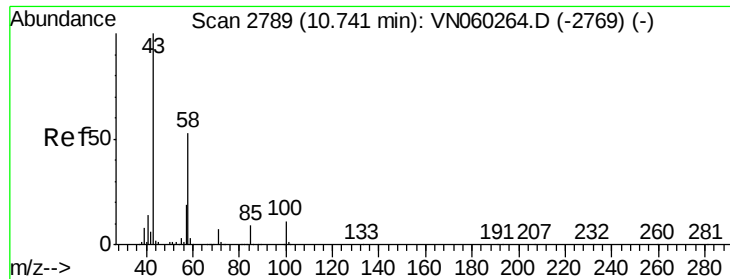
78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

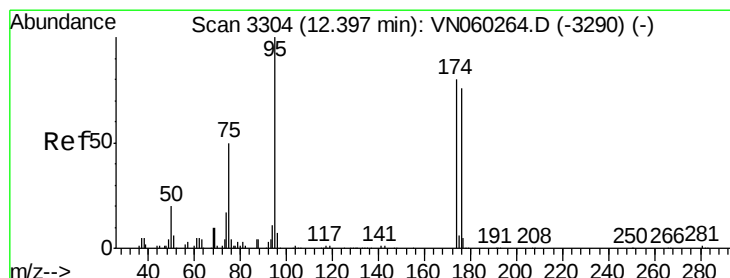
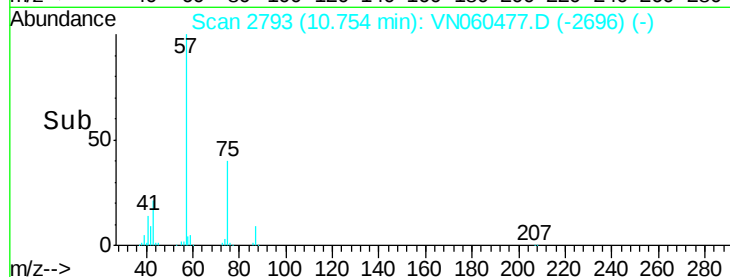
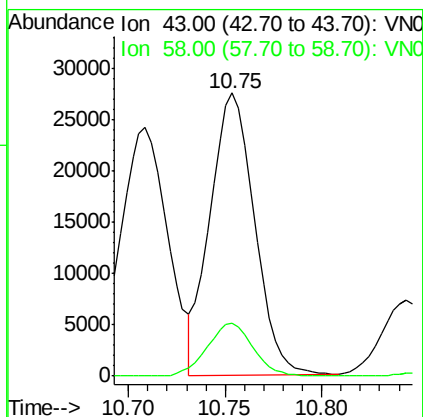
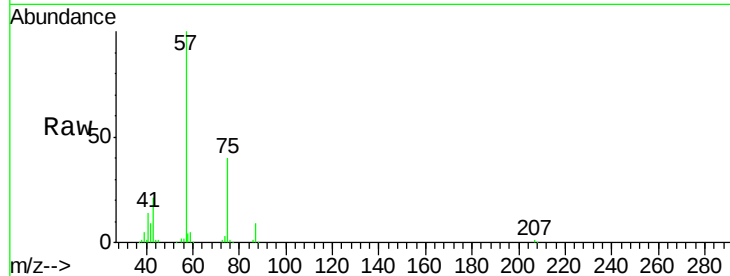




#59
2-Hexanone
Concen: 20.67 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060477.D
Acq: 12 Mar 2020 14:25

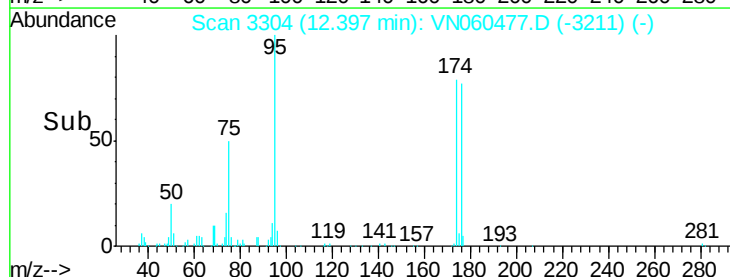
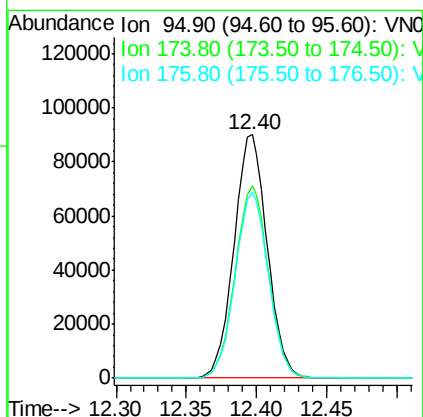
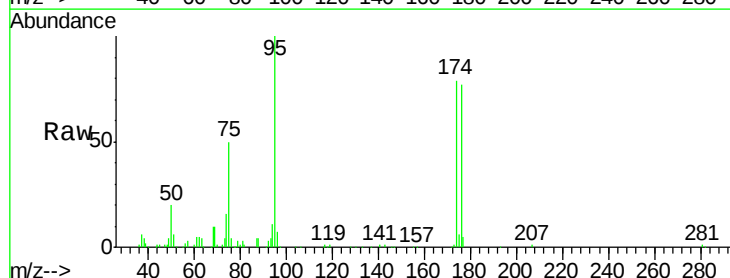
Instrument :
MSVOA_N
ClientSampleId :
TP-4-SA

Tgt Ion: 43 Resp: 44116
Ion Ratio Lower Upper
43 100
58 19.3 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: 51.43 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060477.D
Acq: 12 Mar 2020 14:25

Tgt Ion: 95 Resp: 148640
Ion Ratio Lower Upper
95 100
174 79.2 0.0 159.2
176 76.6 0.0 153.8

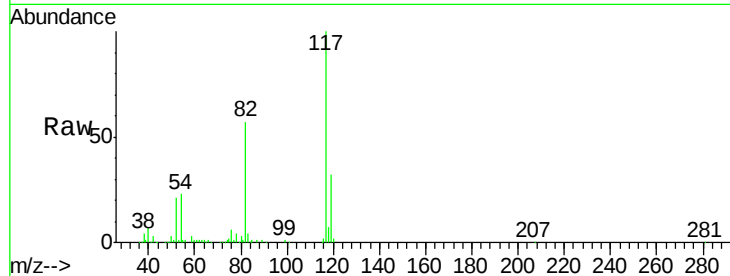




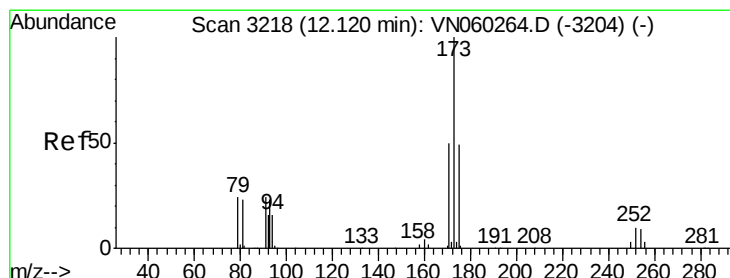
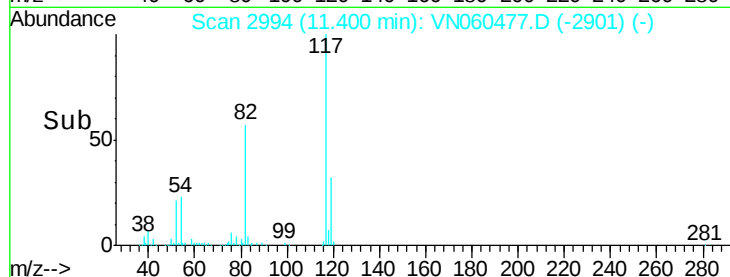
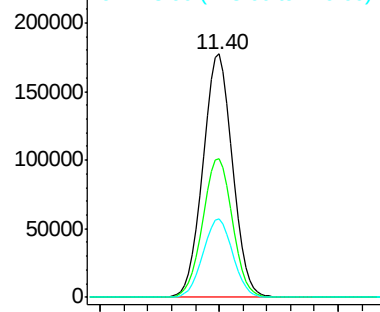
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060477.D
Acq: 12 Mar 2020 14:25

Instrument :
MSVOA_N
ClientSampleId :
TP-4-SA

Tgt Ion:117 Resp: 305354
Ion Ratio Lower Upper
117 100
82 56.8 45.8 68.6
119 32.1 25.8 38.8

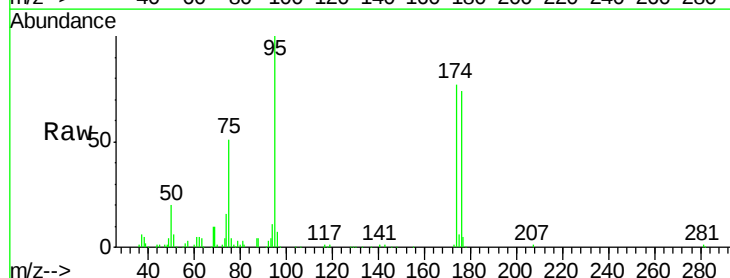


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

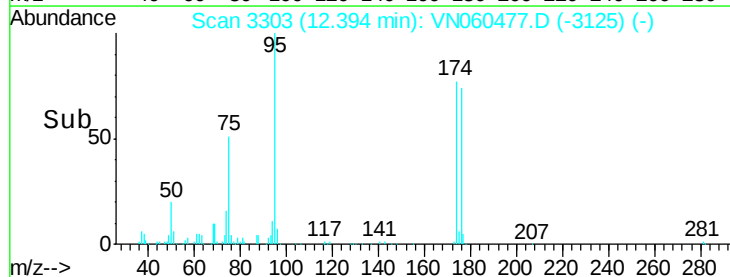
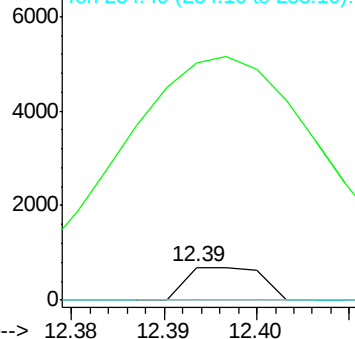


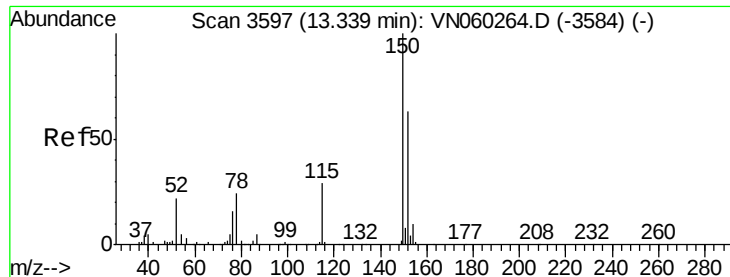
#71
Bromoform
Concen: 0.23 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.27 min
Lab File: VN060477.D
Acq: 12 Mar 2020 14:25

Tgt Ion:173 Resp: 385
Ion Ratio Lower Upper
173 100
175 1896.4 24.1 72.2#
254 0.0 0.0 0.0



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: 50.00 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060477.D

Acq: 12 Mar 2020 14:25

Instrument :

MSVOA_N

ClientSampleId :

TP-4-SA

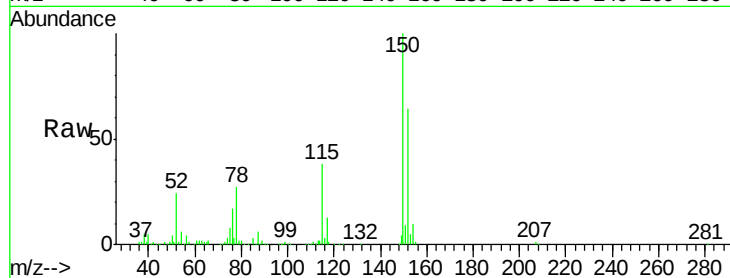
Tgt Ion:152 Resp: 138380

Ion Ratio Lower Upper

152 100

115 60.4 30.0 90.0

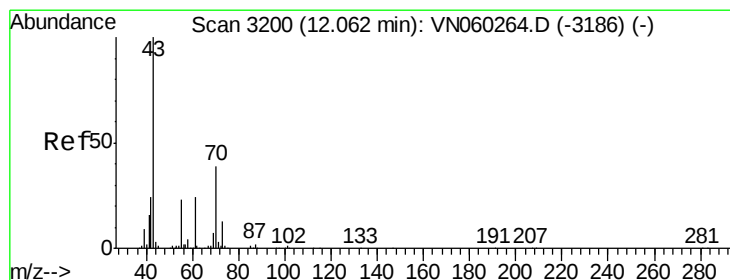
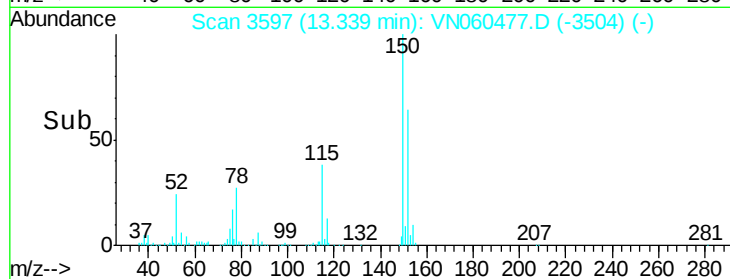
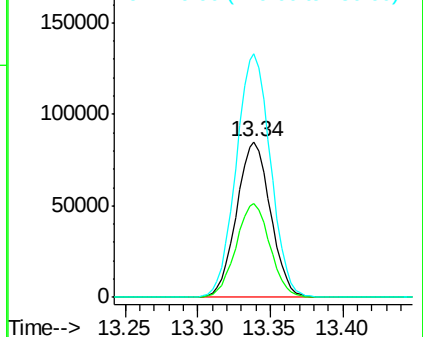
150 158.6 0.0 349.6



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-ethyl acetate

Concen: 0.68 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060477.D

Acq: 12 Mar 2020 14:25

Tgt Ion: 43 Resp: 3027

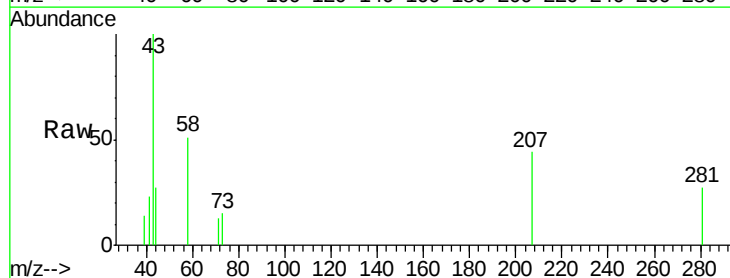
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

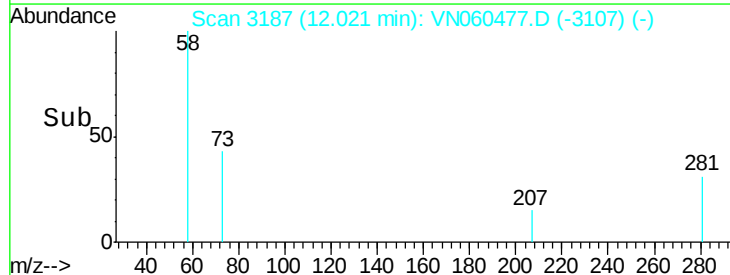
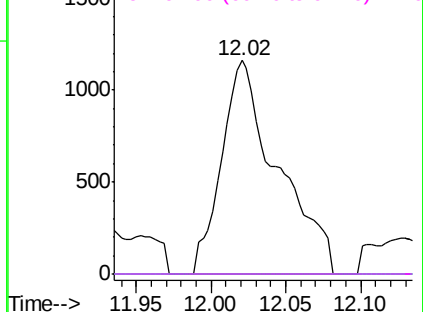


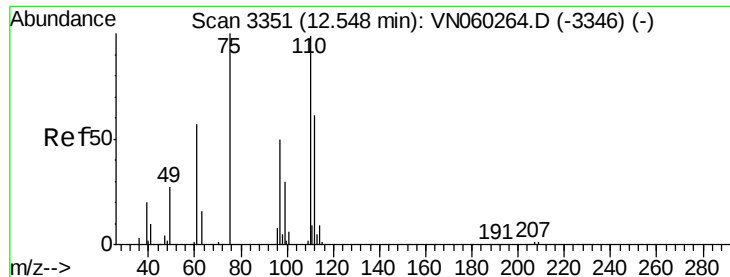
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 24.97 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN060477.D

Acq: 12 Mar 2020 14:25

Instrument :

MSVOA_N

ClientSampled :

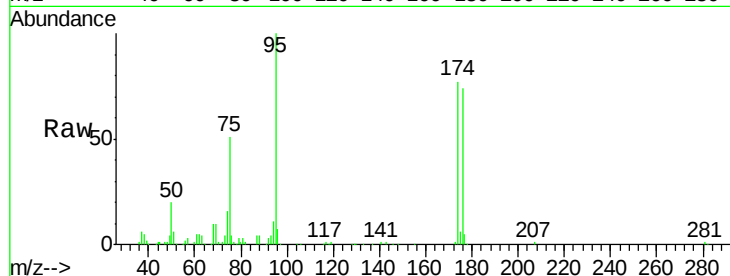
TP-4-SA

Tgt Ion: 75 Resp: 75813

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.39

50000

40000

30000

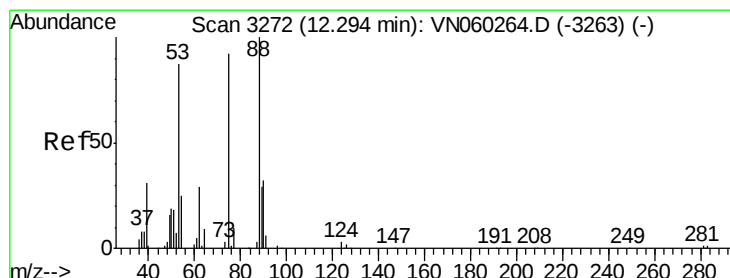
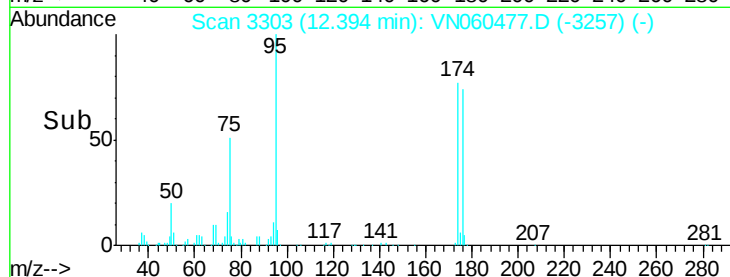
20000

10000

0

Time-->

12.35 12.40 12.45



#81

trans-1,4-Dichloro-2-butene

Concen: 68.93 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN060477.D

Acq: 12 Mar 2020 14:25

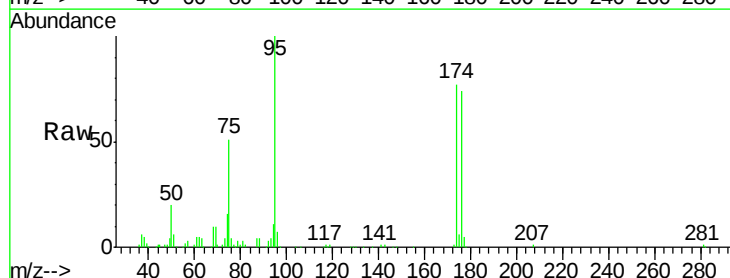
Tgt Ion: 75 Resp: 75813

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

89 0.0 57.1 85.7#



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

12.39

60000

50000

40000

30000

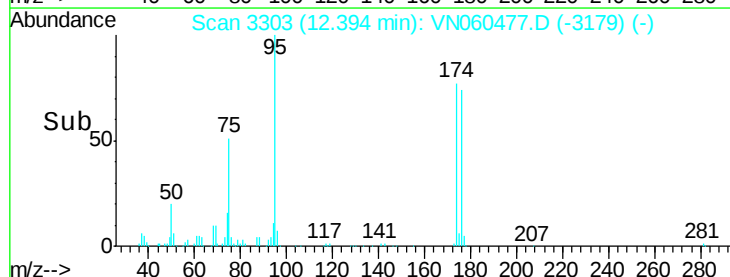
20000

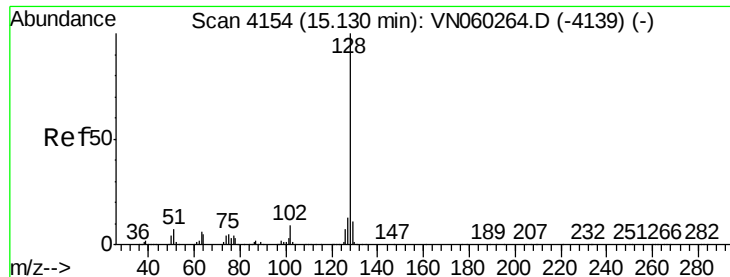
10000

0

Time-->

12.35 12.40 12.45





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN060477.D

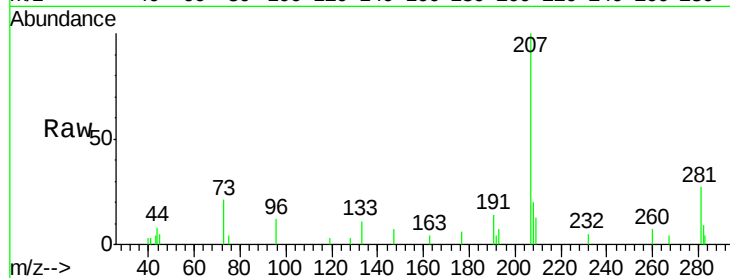
Acq: 12 Mar 2020 14:25

Instrument :

MSVOA_N

ClientSampleId :

TP-4-SA



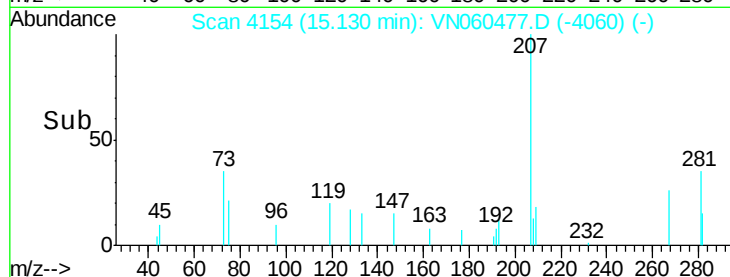
Tgt Ion:128 Resp: 182

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.6 13.0#



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

