

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051820\
 Data File : VN061459.D
 Acq On : 19 May 2020 4:59
 Operator : JC/MD
 Sample : L2644-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 72-11944

Quant Time: May 19 05:46:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051820W.M
 Quant Title : SW846 8260
 QLast Update : Mon May 18 13:09:55 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	279479	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	517195	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	526999	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	227490	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	203624	48.82	ug/l	0.00
Spiked Amount			Recovery	=	97.64%	
35) Dibromofluoromethane	7.55	113	145781	53.80	ug/l	0.00
Spiked Amount			Recovery	=	107.60%	
50) Toluene-d8	10.06	98	668111	53.16	ug/l	0.00
Spiked Amount			Recovery	=	106.32%	
62) 4-Bromofluorobenzene	12.38	95	259779	55.33	ug/l	0.00
Spiked Amount			Recovery	=	110.66%	

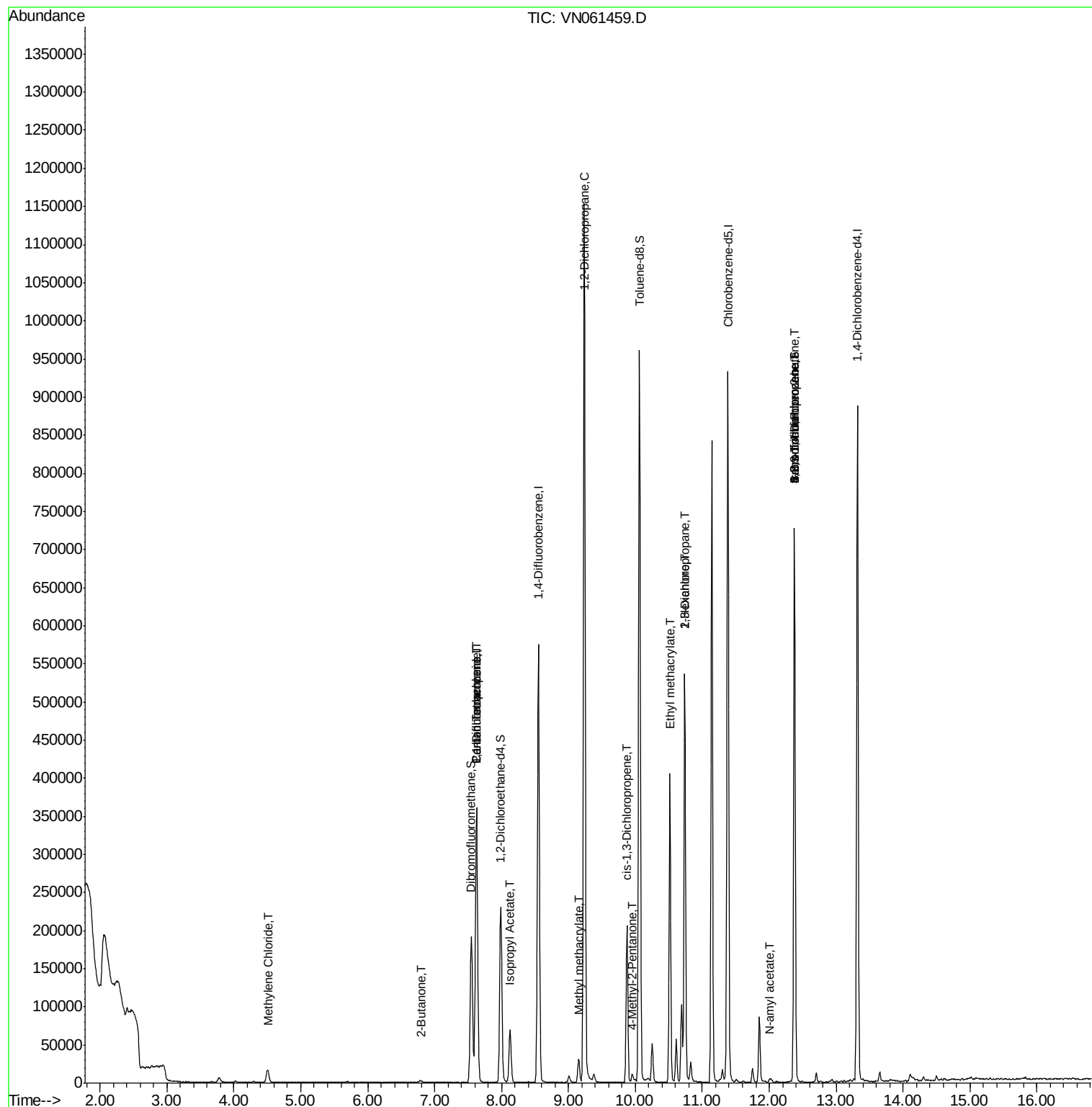
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	501	Below Cal	#	49
16) Acetone	3.78	43	10870	Below Cal		98
17) Carbon Disulfide	4.00	76	839	Below Cal	#	75
18) Methyl Acetate	4.27	43	1248	Below Cal	#	49
20) Methylene Chloride	4.51	84	11988	3.497	ug/l	94
25) 2-Butanone	6.81	43	2620	1.380	ug/l	99
31) Cyclohexane	7.63	56	6725	Below Cal	#	16
36) 1,1-Dichloropropene	7.63	75	23626	4.885	ug/l	# 49
38) Carbon Tetrachloride	7.63	117	29721	6.674	ug/l	# 15
43) Isopropyl Acetate	8.13	43	80797	10.563	ug/l	# 89
45) 1,2-Dichloropropane	9.23	63	1580	0.433	ug/l	# 43
48) Methyl methacrylate	9.15	41	3941	1.115	ug/l	# 9
49) 1,4-Dioxane	9.17	88	99	Below Cal	#	1
51) 4-Methyl-2-Pentanone	9.95	43	6924	1.662	ug/l	97
54) cis-1,3-Dichloropropene	9.88	75	40313	6.422	ug/l	# 61
56) Ethyl methacrylate	10.51	69	1278	0.231	ug/l	# 1
57) 1,3-Dichloropropane	10.74	76	5948	0.973	ug/l	# 42
59) 2-Hexanone	10.74	43	75073	24.902	ug/l	# 49
71) Bromoform	12.38	173	1517	2.506	ug/l	# 1
74) N-amyl acetate	12.01	43	3388	0.507	ug/l	# 41
76) 1,2,3-Trichloropropane	12.38	75	138568	28.387	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.38	75	138568	75.305	ug/l	# 12

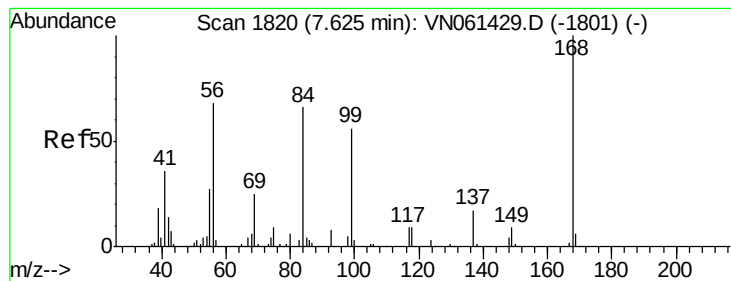
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon May 18 13:09:55 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061459.D

Acq: 19 May 2020 4:59

Instrument :

MSVOA_N

ClientSampleId :

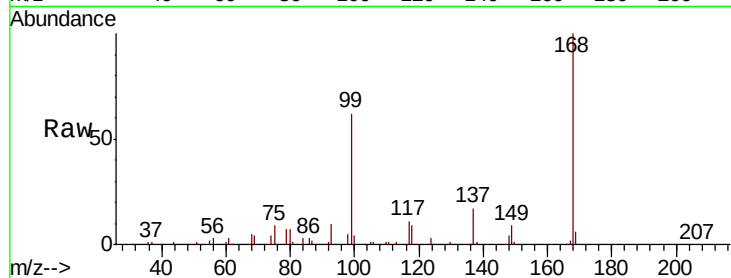
72-11944

Tot Ion:168 Resp: 279479

Ion Ratio Lower Upper

168 100

99 61.8 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

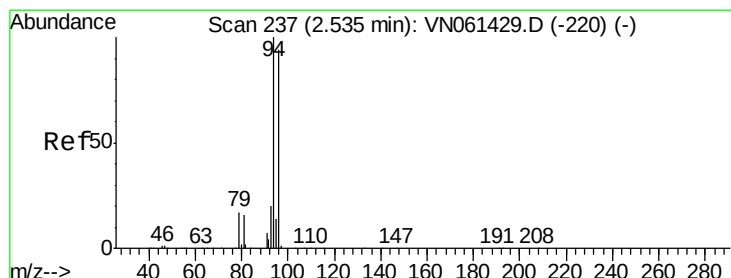
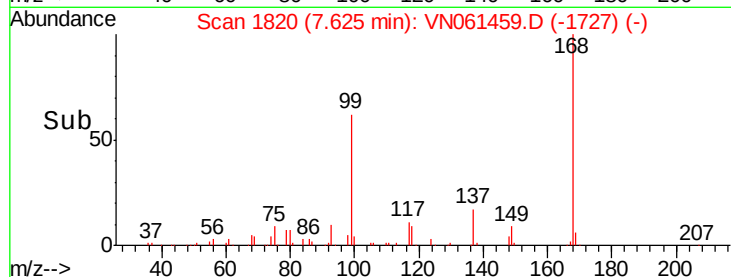
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 240

Delta R.T. 0.01 min

Lab File: VN061459.D

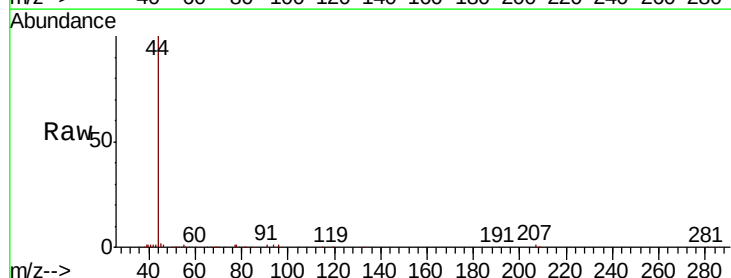
Acq: 19 May 2020 4:59

Tgt Ion: 94 Resp: 501

Ion Ratio Lower Upper

94 100

96 44.4 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

2.54

500

400

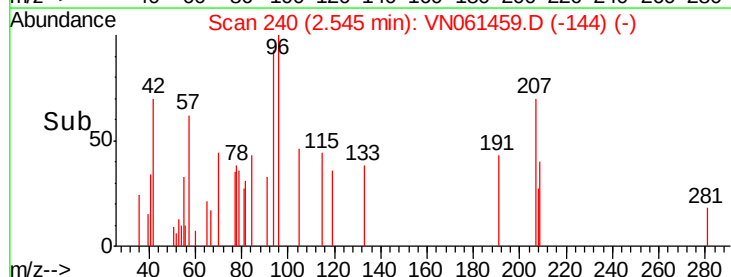
300

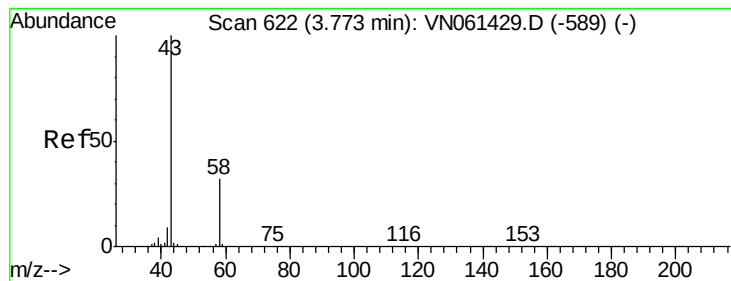
200

100

0

Time--> 2.52 2.54 2.56





#16

Acetone

Concen: Below Cal

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN061459.D

Acq: 19 May 2020 4:59

Instrument :

MSVOA_N

ClientSampleId :

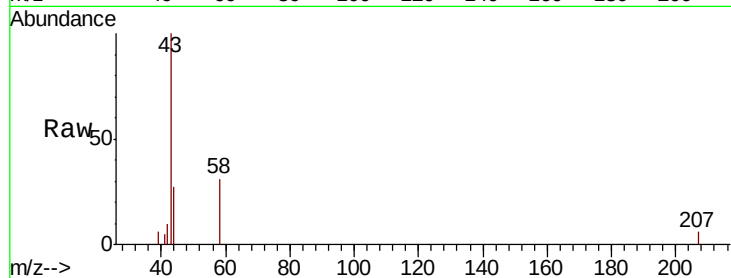
72-11944

Tot Ion: 43 Resp: 10870

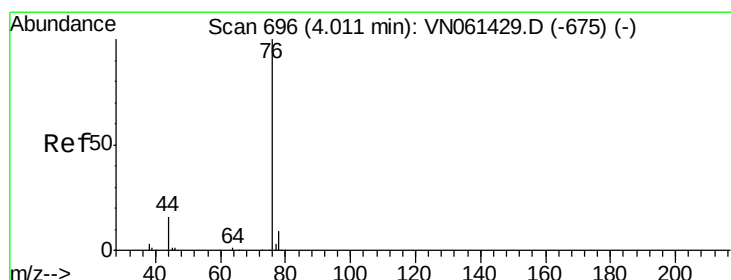
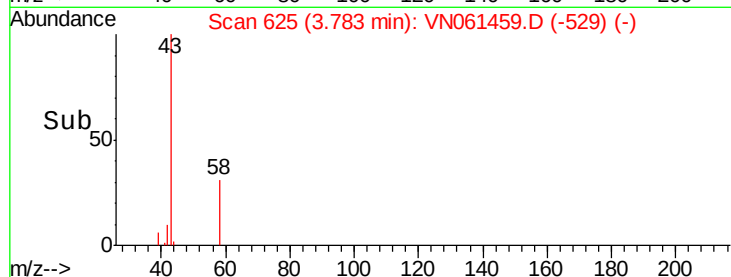
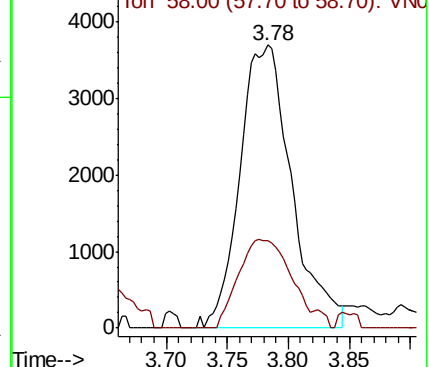
Ion Ratio Lower Upper

43 100

58 31.0 25.6 38.4



Abundance Ion 43.00 (42.70 to 43.70): VN061429.D (-589) (-)



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.00 min Scan# 694

Delta R.T. -0.01 min

Lab File: VN061459.D

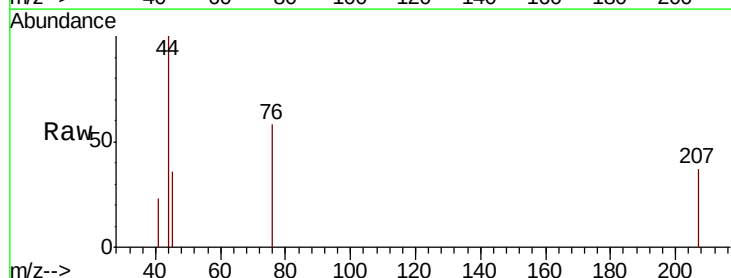
Acq: 19 May 2020 4:59

Tgt Ion: 76 Resp: 839

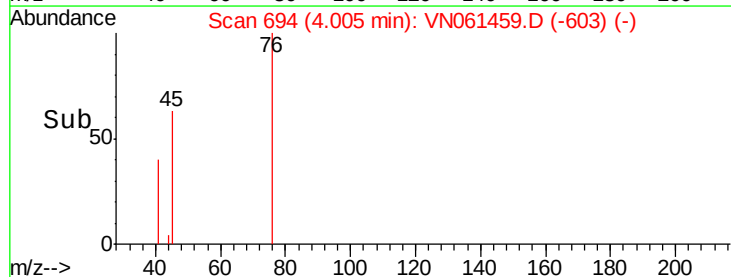
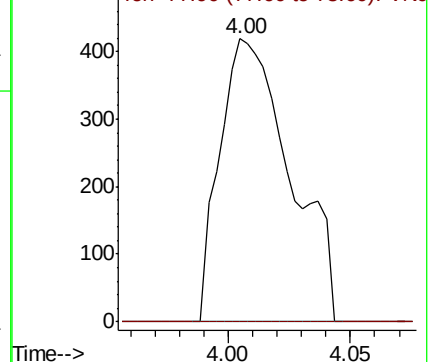
Ion Ratio Lower Upper

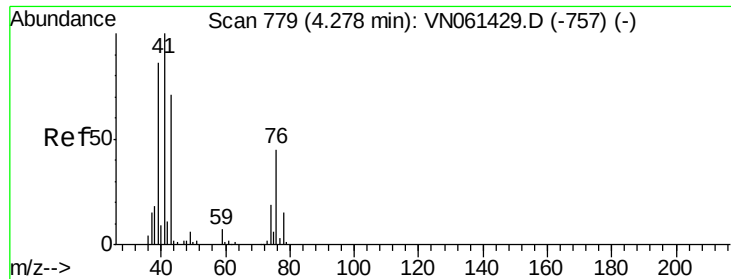
76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN061429.D (-675) (-)

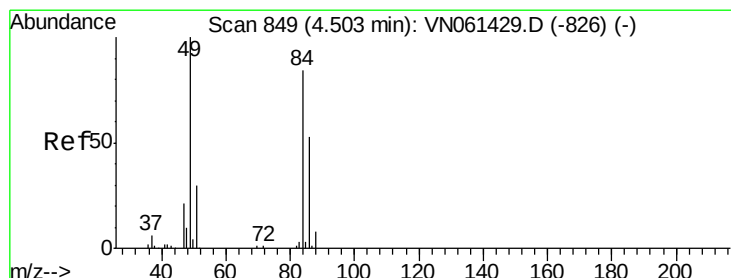
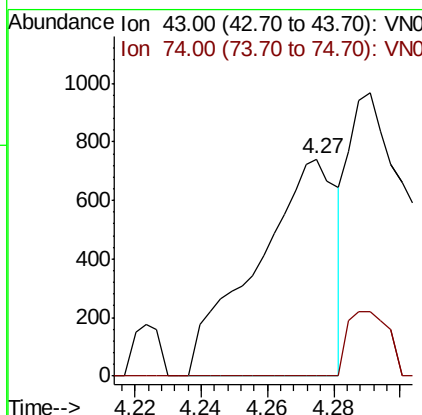
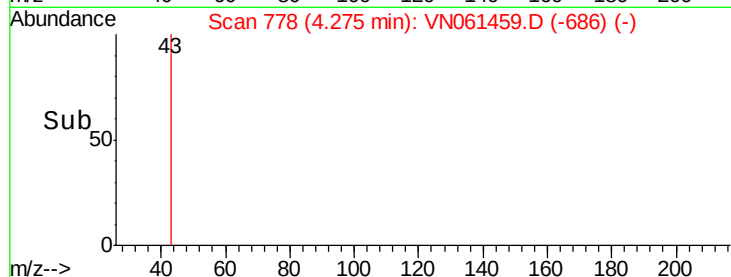
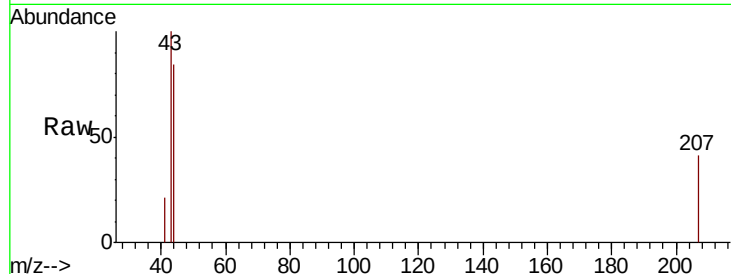




#18
Methvl Acetate
Concen: Below Cal
RT: 4.27 min Scan# 778
Delta R.T. -0.00 min
Lab File: VN061459.D
Acq: 19 May 2020 4:59

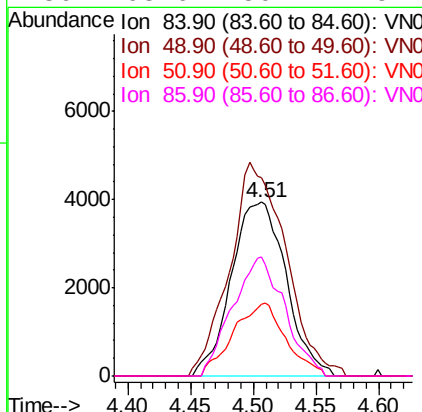
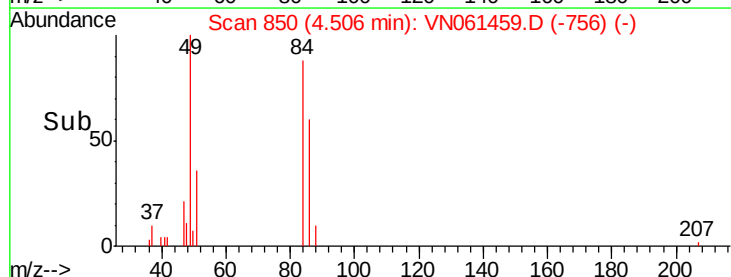
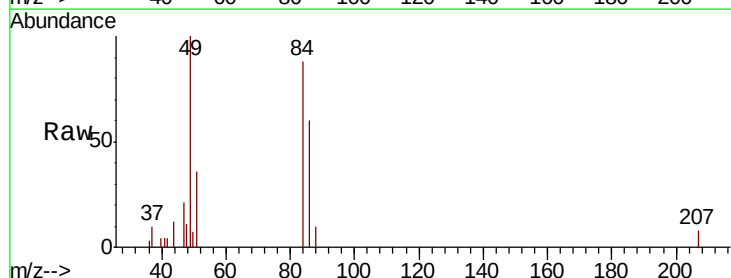
Instrument :
MSVOA_N
ClientSampled :
72-11944

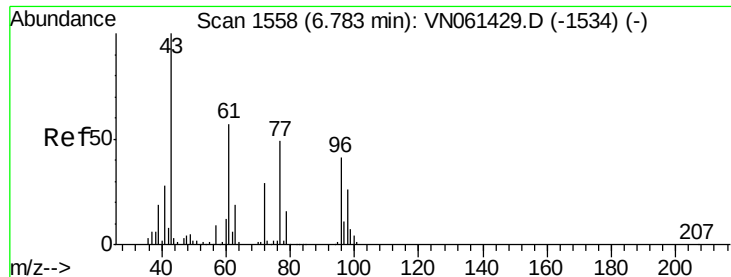
Tot Ion: 43 Resp: 1248
Ion Ratio Lower Upper
43 100
74 0.0 20.8 31.2#



#20
Methylene Chloride
Concen: 3.497 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.00 min
Lab File: VN061459.D
Acq: 19 May 2020 4:59

Tgt Ion: 84 Resp: 11988
Ion Ratio Lower Upper
84 100
49 114.0 95.3 142.9
51 41.1 29.0 43.6
86 68.6 50.2 75.2

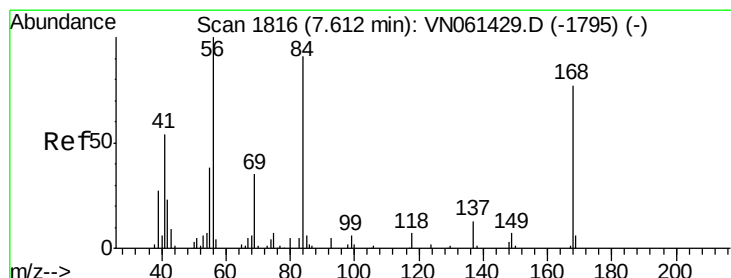
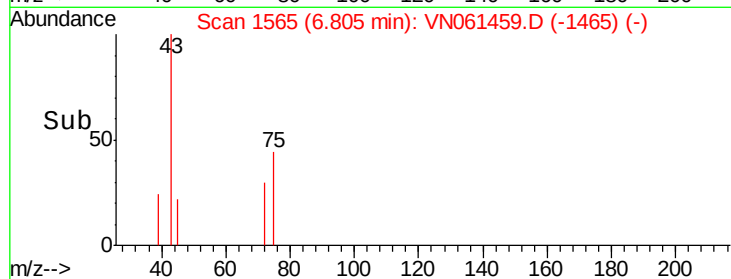
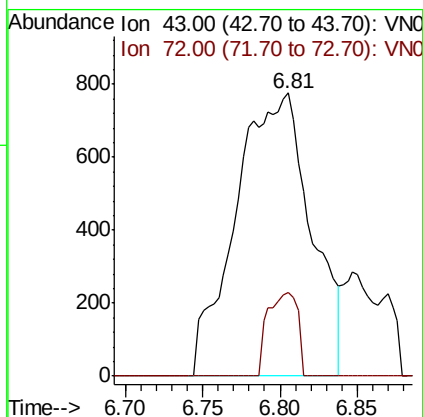
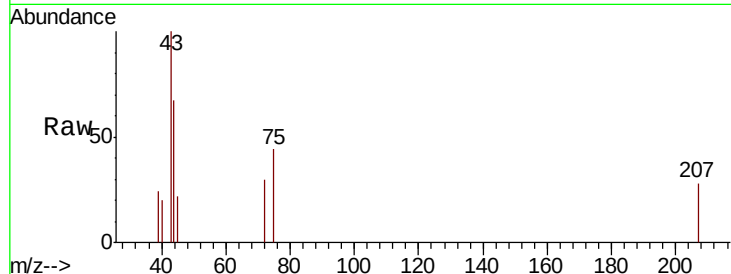




#25
2-Butanone
Concen: 1.380 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.02 min
Lab File: VN061459.D
Acq: 19 May 2020 4:59

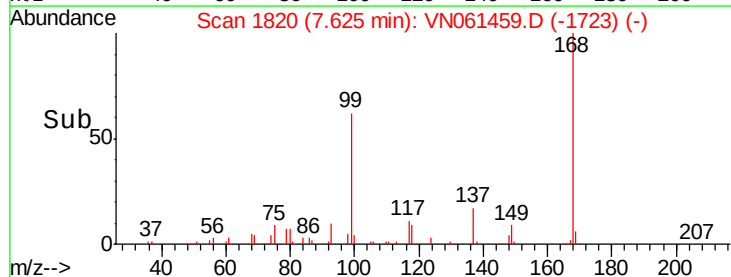
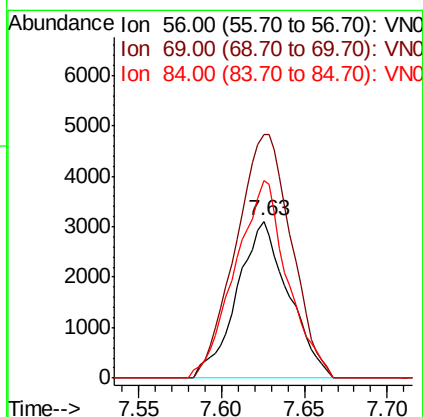
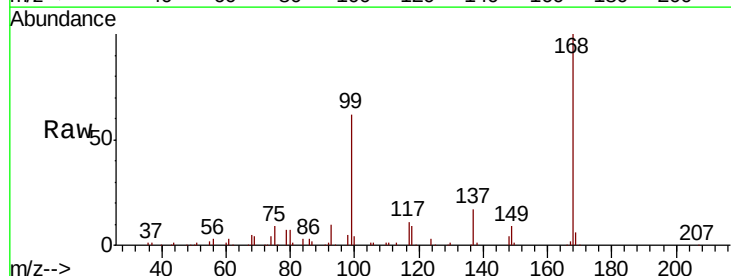
Instrument :
MSVOA_N
ClientSampleId :
72-11944

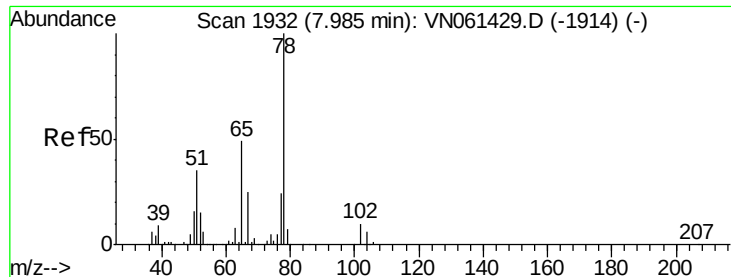
Tot Ion: 43 Resp: 2620
Ion Ratio Lower Upper
43 100
72 29.5 23.0 34.6



#31
Cyclohexane
Concen: Below Cal
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN061459.D
Acq: 19 May 2020 4:59

Tgt Ion: 56 Resp: 6725
Ion Ratio Lower Upper
56 100
69 155.3 27.8 41.6#
84 125.7 72.7 109.1#

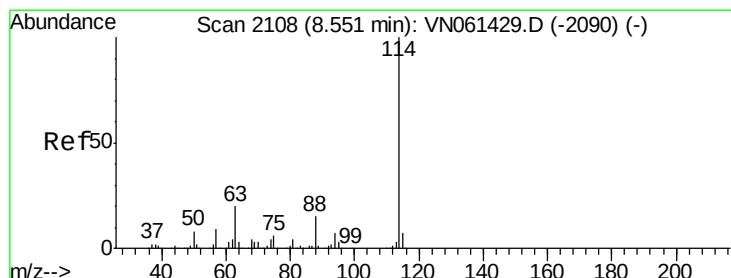
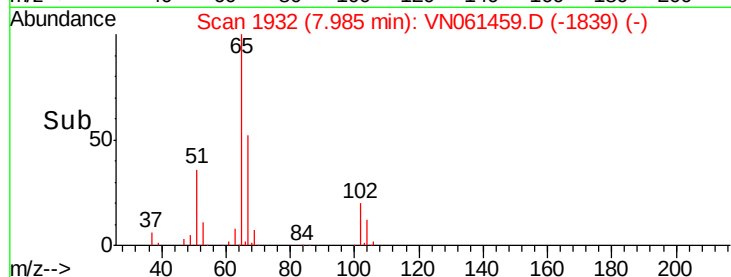
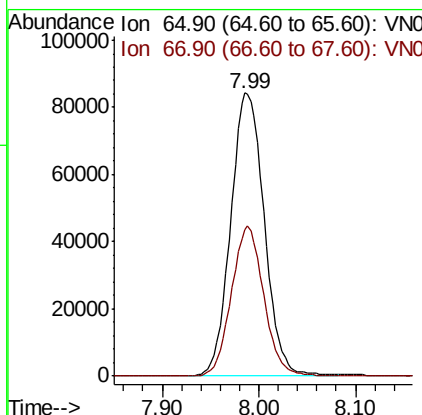
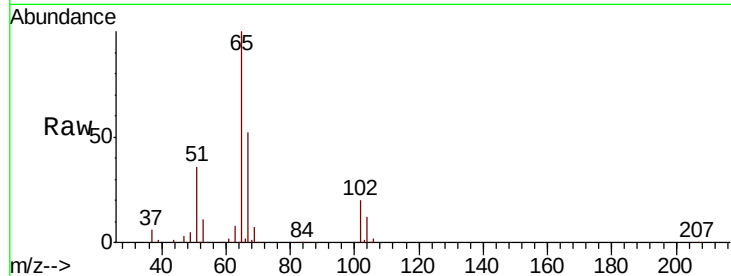




#33
 1,2-Dichloroethane-d4
 Concen: 48.818 ug/l
 RT: 7.99 min Scan# 1932
 Delta R.T. -0.00 min
 Lab File: VN061459.D
 Acq: 19 May 2020 4:59

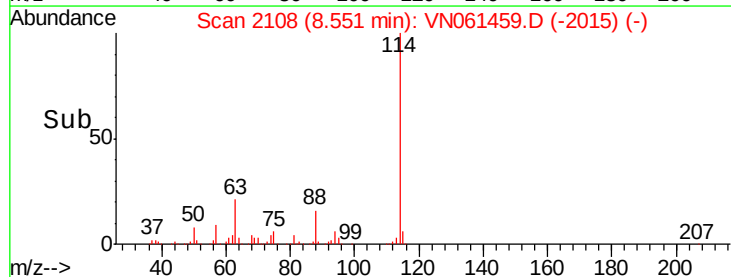
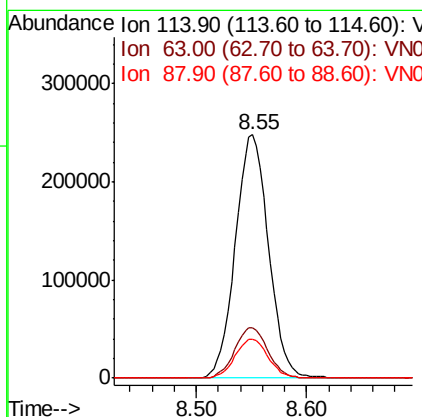
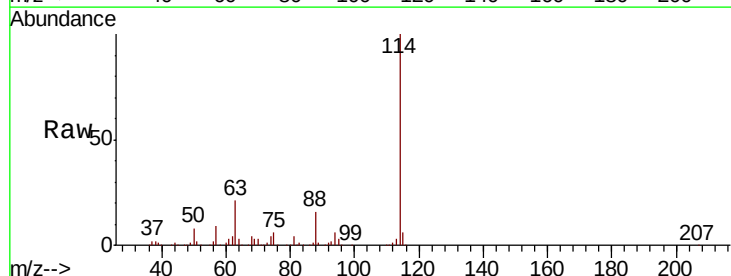
Instrument :
 MSVOA_N
 ClientSampleId :
 72-11944

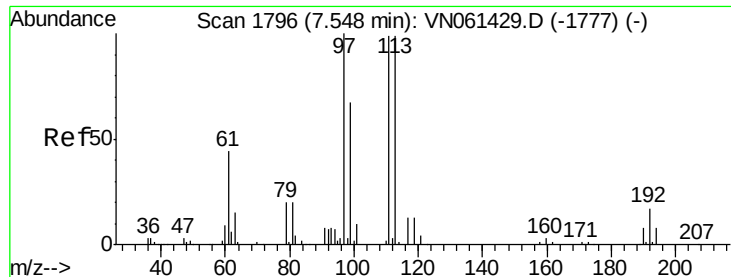
Tot Ion: 65 Resp: 203624
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 101.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN061459.D
 Acq: 19 May 2020 4:59

Tgt Ion: 114 Resp: 517195
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 40.8
 88 15.9 0.0 30.8





#35

Dibromofluoromethane

Concen: 53.805 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VN061459.D

Acq: 19 May 2020 4:59

Instrument :

MSVOA_N

ClientSampleId :

72-11944

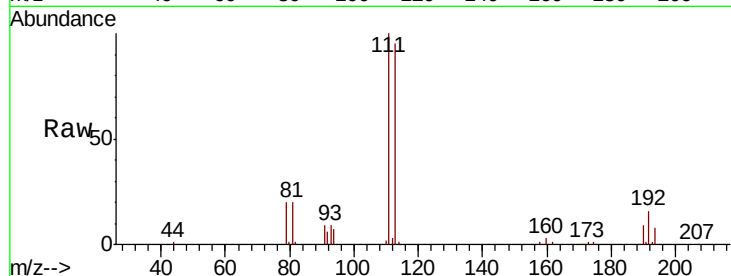
Tot Ion:113 Resp: 145781

Ion Ratio Lower Upper

113 100

111 103.6 80.6 121.0

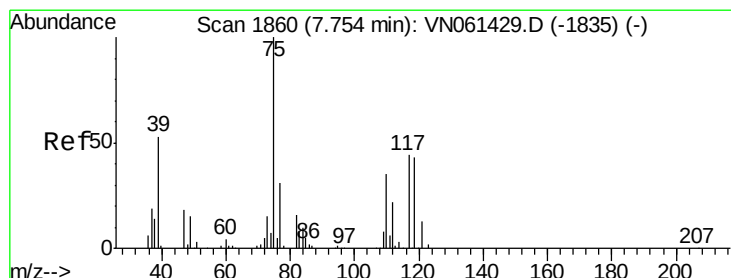
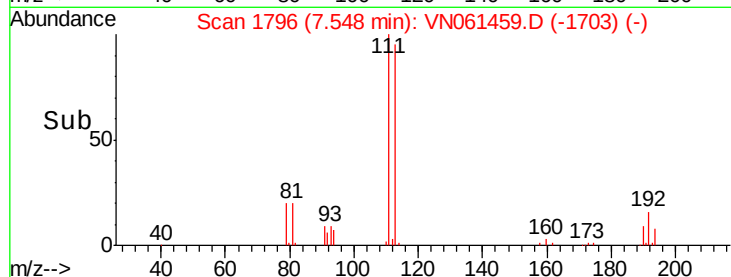
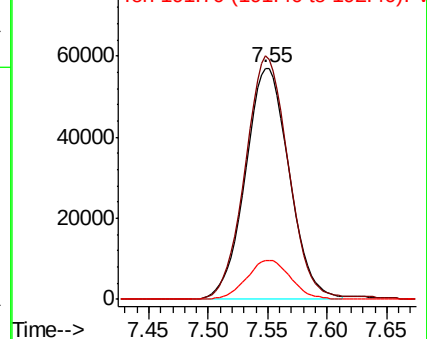
192 17.0 13.2 19.8



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: 4.885 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.13 min

Lab File: VN061459.D

Acq: 19 May 2020 4:59

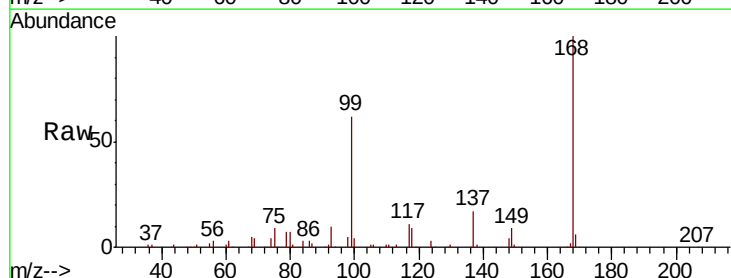
Tgt Ion: 75 Resp: 23626

Ion Ratio Lower Upper

75 100

110 8.3 17.3 51.9#

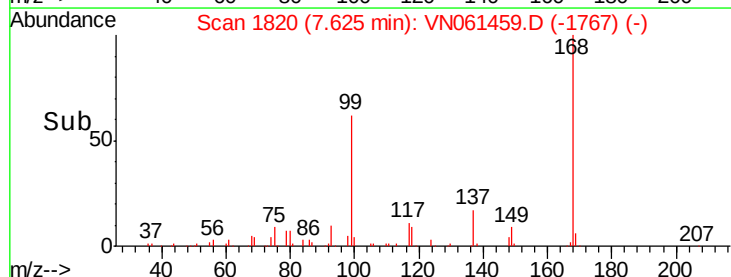
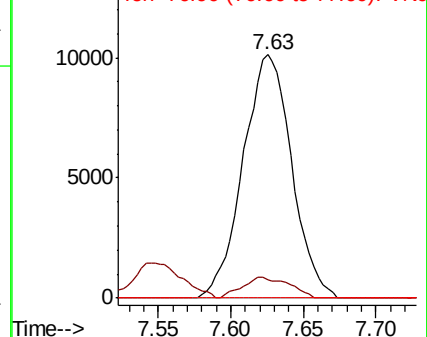
77 0.0 24.9 37.3#

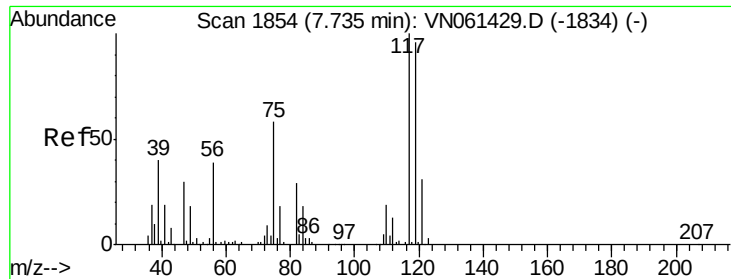


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.674 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061459.D

Acq: 19 May 2020 4:59

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MSVOA_N

ClientSampled :

72-11944

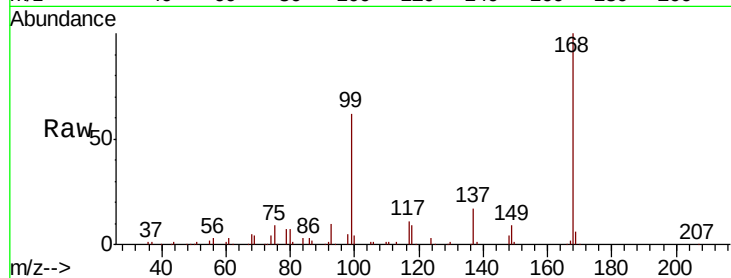
Tot Ion:117 Resp: 29721

Ion Ratio Lower Upper

117 100

119 3.7 77.0 115.6#

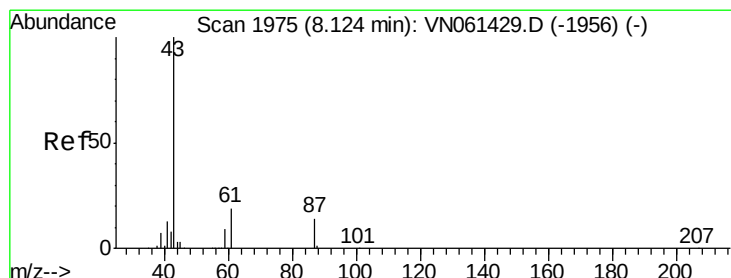
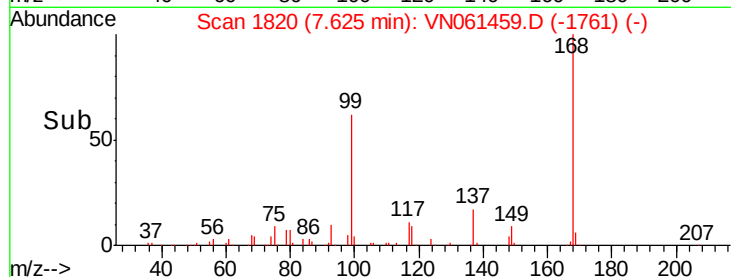
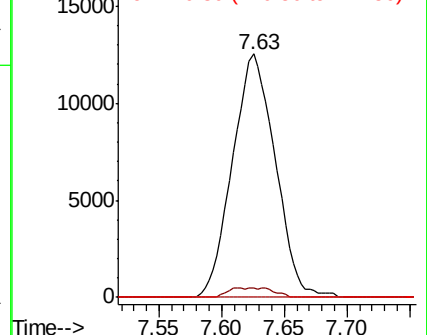
121 0.0 24.7 37.1#



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: 10.563 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN061459.D

Acq: 19 May 2020 4:59

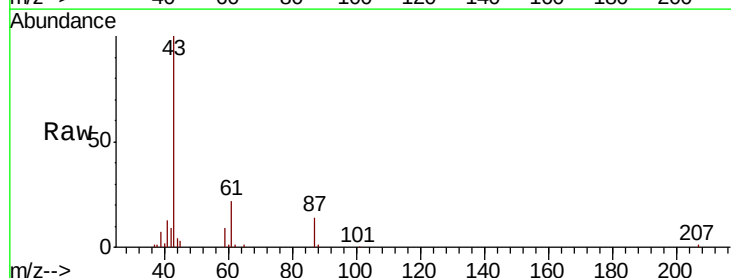
Tgt Ion: 43 Resp: 80797

Ion Ratio Lower Upper

43 100

61 20.0 23.0 34.4#

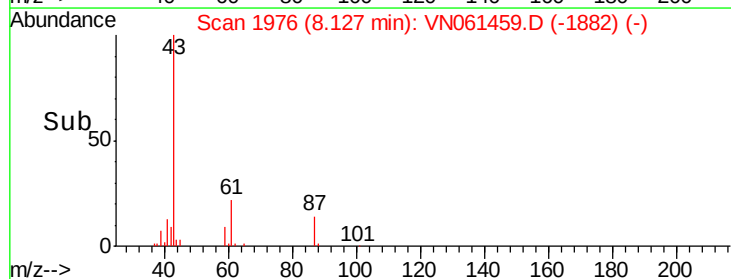
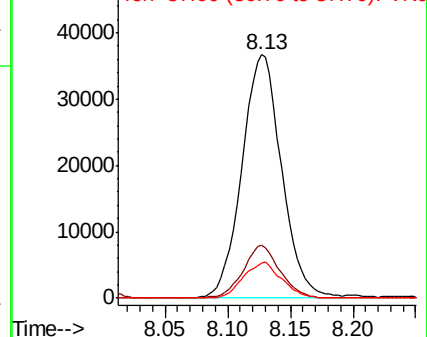
87 14.0 11.6 17.4

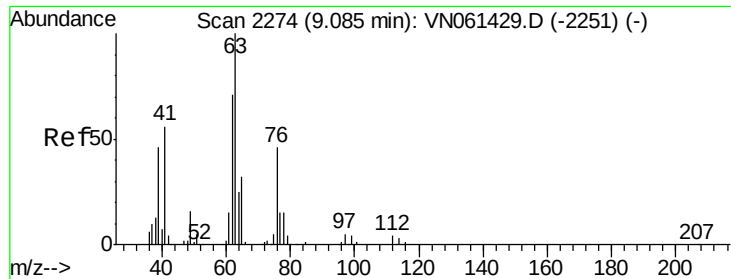


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.433 ug/l

RT: 9.23 min Scan# 2319

Delta R.T. 0.14 min

Lab File: VN061459.D

Acq: 19 May 2020 4:59

Instrument :

MSVOA_N

ClientSampleId :

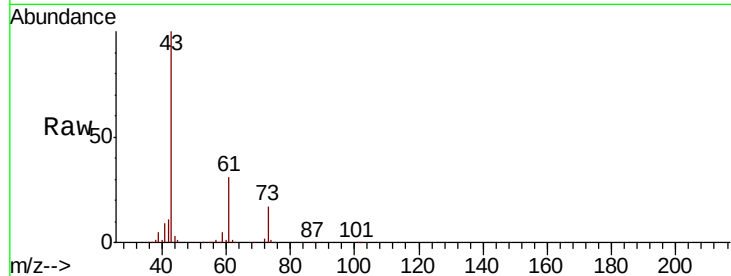
72-11944

Tot Ion: 63 Resp: 1580

Ion Ratio Lower Upper

63 100

65 0.0 25.2 37.8#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.23

800

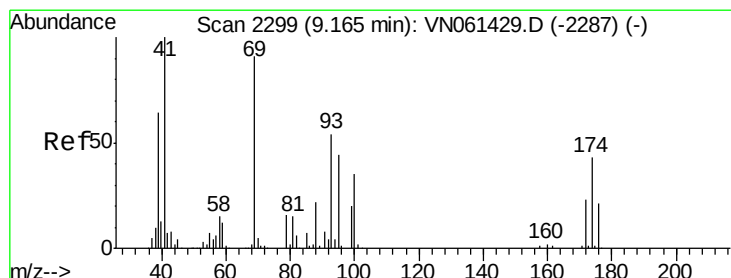
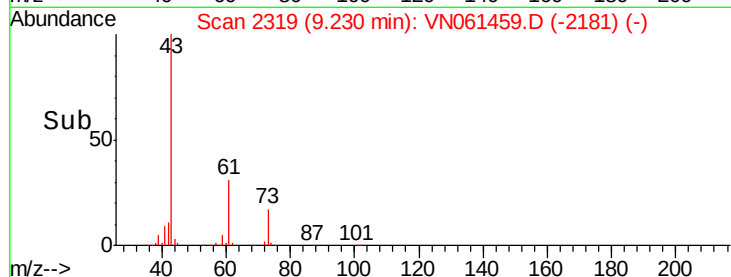
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 1.115 ug/l

RT: 9.15 min Scan# 2294

Delta R.T. -0.02 min

Lab File: VN061459.D

Acq: 19 May 2020 4:59

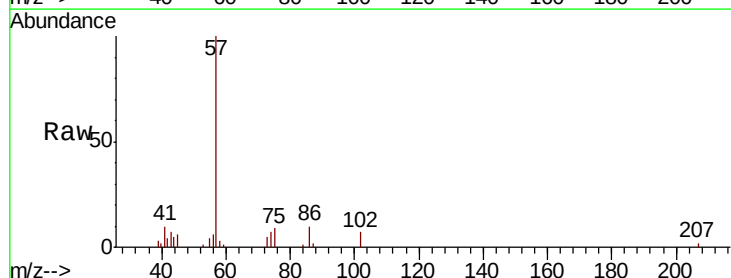
Tgt Ion: 41 Resp: 3941

Ion Ratio Lower Upper

41 100

69 0.0 75.3 112.9#

39 0.0 52.6 79.0#



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

60000

50000

40000

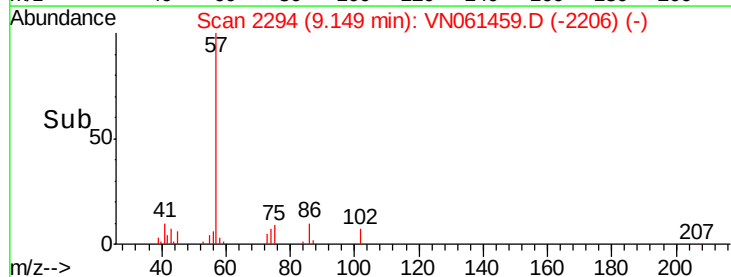
30000

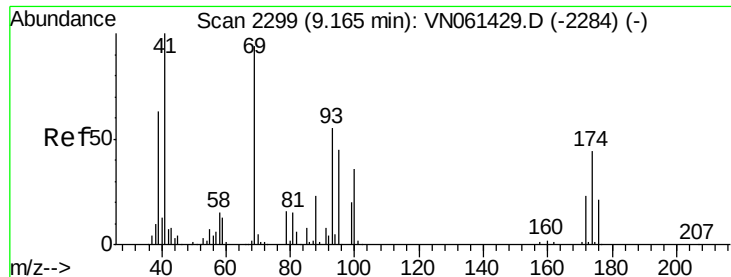
20000

10000

0

Time-->

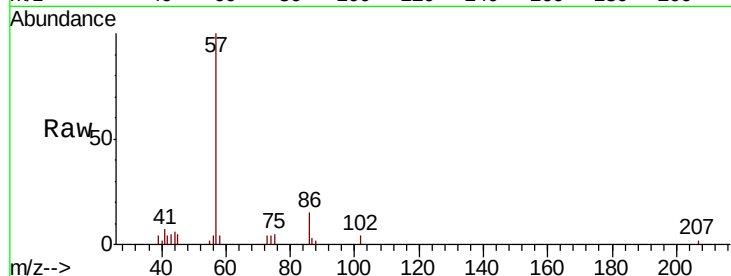




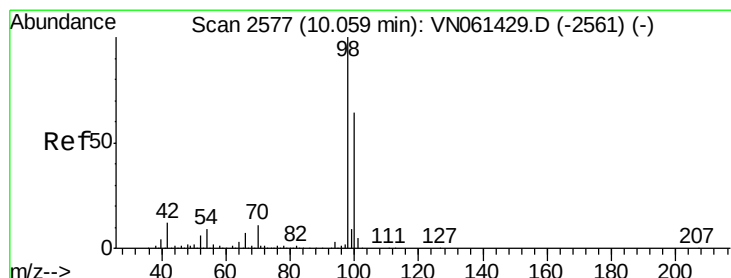
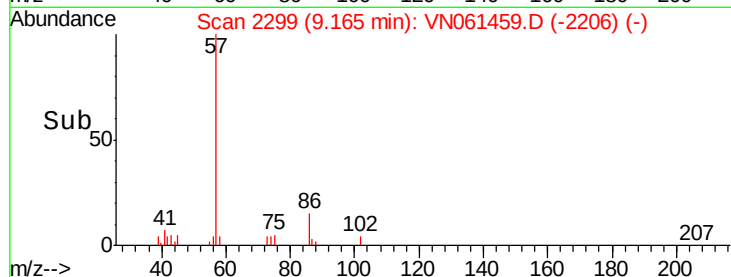
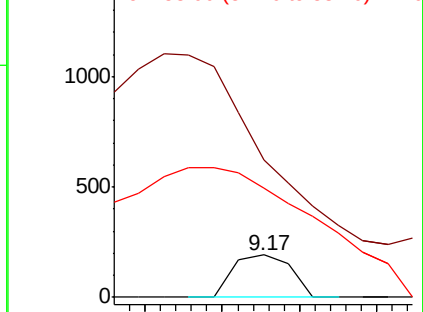
#49
1,4-Dioxane
Concen: Below Cal
RT: 9.17 min Scan# 2299
Delta R.T. 0.00 min
Lab File: VN061459.D
Acq: 19 May 2020 4:59

Instrument :
MSVOA_N
ClientSampleId :
72-11944

Tot Ion: 88 Resp: 99
Ion Ratio Lower Upper
88 100
43 0.0 26.3 39.5#
58 1322.2 54.1 81.1#

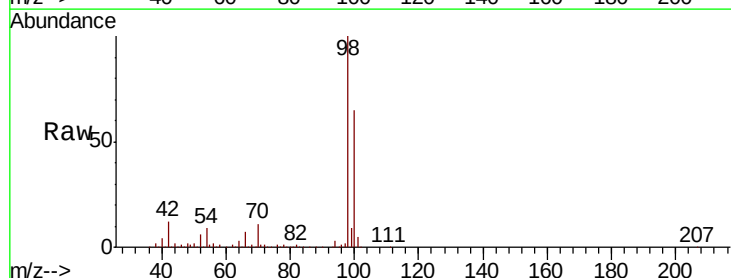


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

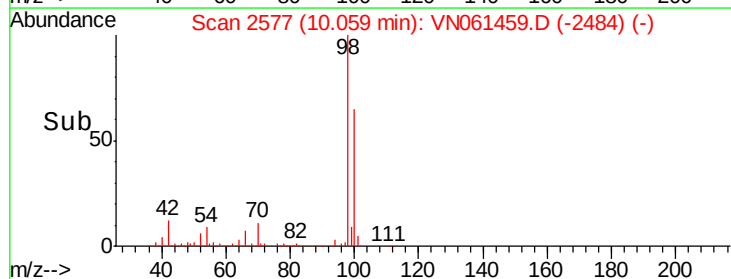
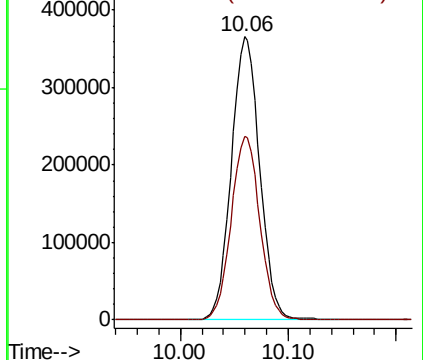


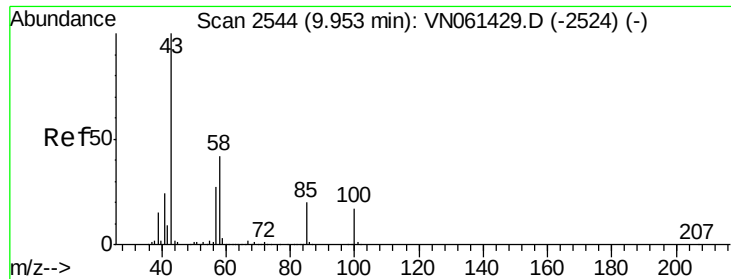
#50
Toluene-d8
Concen: 53.164 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN061459.D
Acq: 19 May 2020 4:59

Tgt Ion: 98 Resp: 668111
Ion Ratio Lower Upper
98 100
100 65.6 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

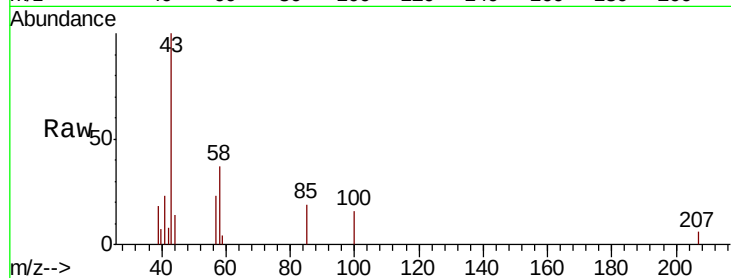




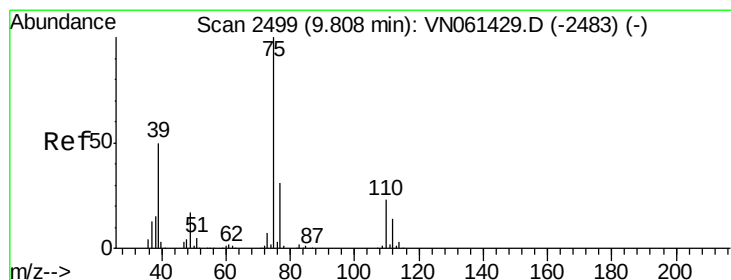
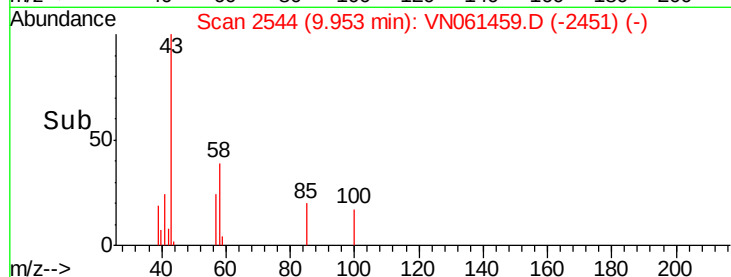
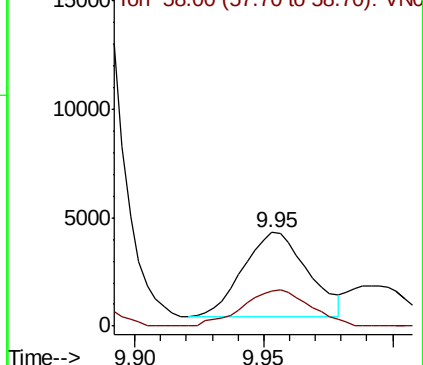
#51
 4-Methyl-2-Pentanone
 Concen: 1.662 ug/l
 RT: 9.95 min Scan# 2544
 Delta R.T. -0.00 min
 Lab File: VN061459.D
 Acq: 19 May 2020 4:59

Instrument :
 MSVOA_N
 ClientSampled :
 72-11944

Tot Ion: 43 Resp: 6924
 Ion Ratio Lower Upper
 43 100
 58 43.8 33.4 50.2

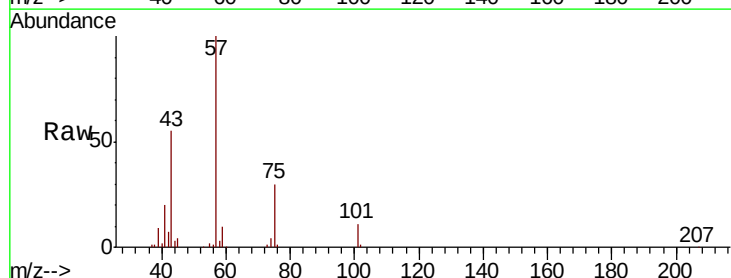


Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

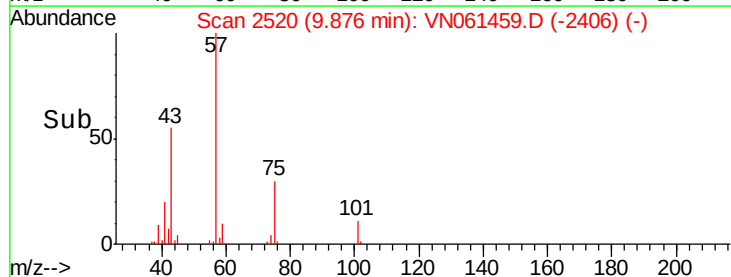
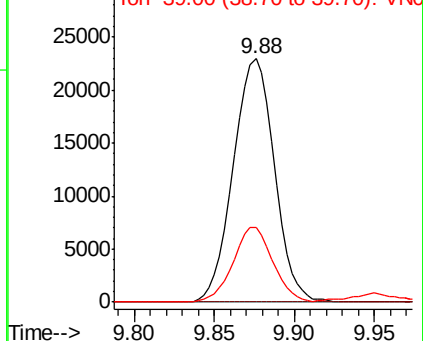


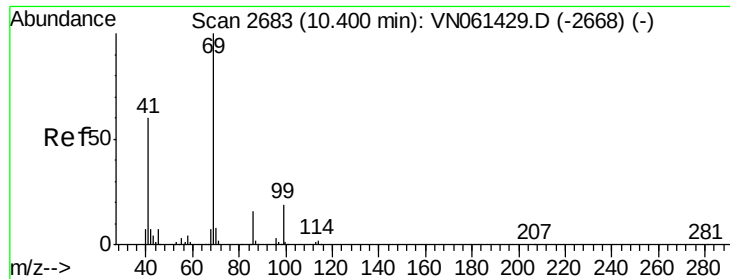
#54
 cis-1,3-Dichloropropene
 Concen: 6.422 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN061459.D
 Acq: 19 May 2020 4:59

Tgt Ion: 75 Resp: 40313
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 30.8 39.8 59.6#



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





#56

Ethyl methacrylate

Concen: 0.231 ug/l

RT: 10.51 min Scan# 2718

Delta R.T. 0.11 min

Lab File: VN061459.D

Acq: 19 May 2020 4:59

Instrument :

MSVOA_N

ClientSampled :

72-11944

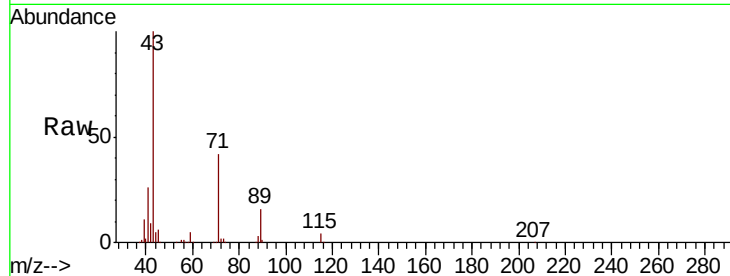
Tot Ion: 69 Resp: 1278

Ion Ratio Lower Upper

69 100

41 5799.8 48.3 72.5#

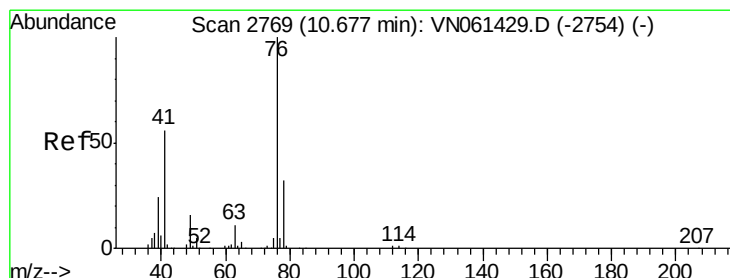
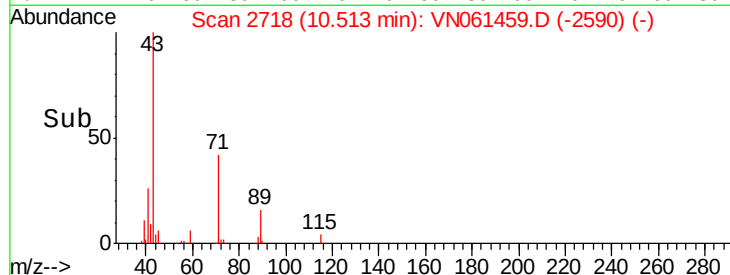
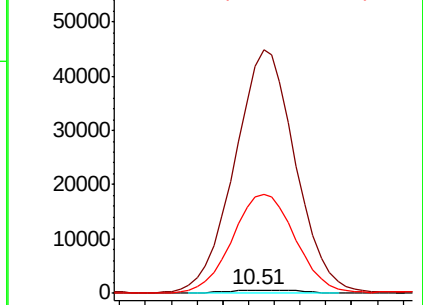
39 2457.7 30.2 45.2#



Abundance Ion 69.00 (68.70 to 69.70): VN061429.D (-2668) (-)

Ion 41.00 (40.70 to 41.70): VN061429.D (-2668) (-)

Ion 39.00 (38.70 to 39.70): VN061429.D (-2668) (-)



#57

1,3-Dichloropropane

Concen: 0.973 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN061459.D

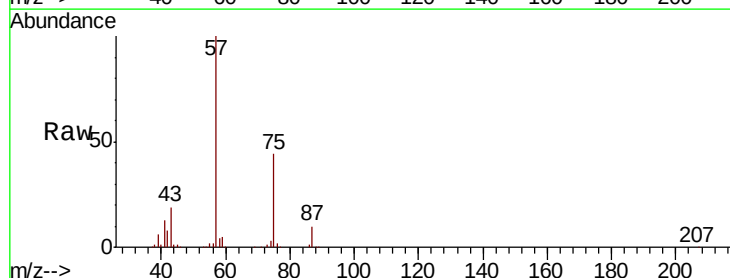
Acq: 19 May 2020 4:59

Tgt Ion: 76 Resp: 5948

Ion Ratio Lower Upper

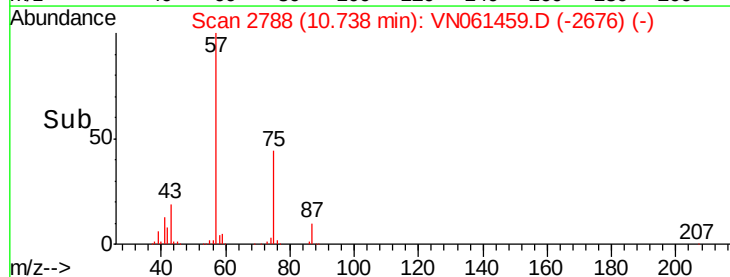
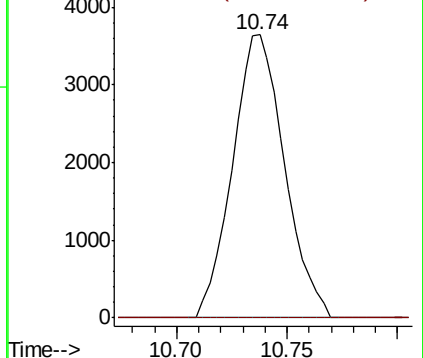
76 100

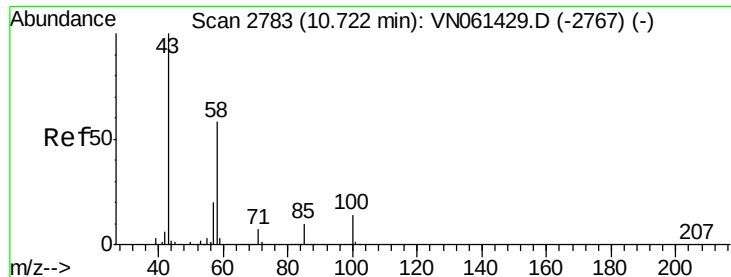
78 0.0 26.0 39.0#



Abundance Ion 75.90 (75.60 to 76.60): VN061429.D (-2754) (-)

Ion 77.90 (77.60 to 78.60): VN061429.D (-2754) (-)

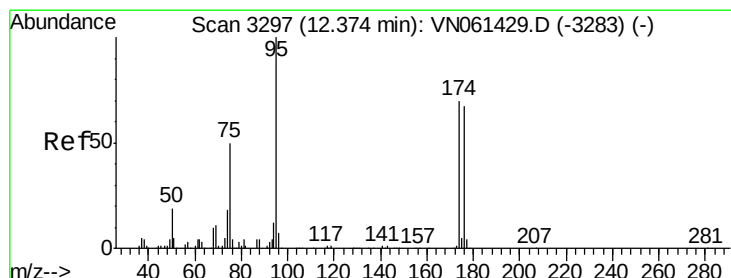
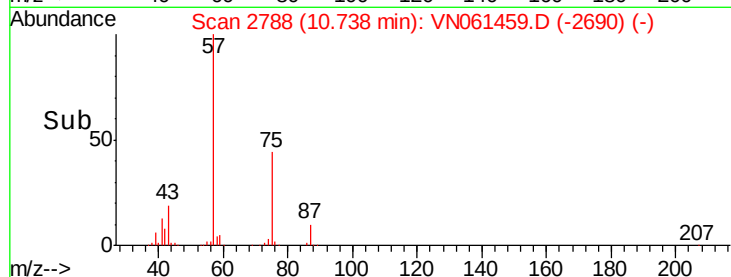
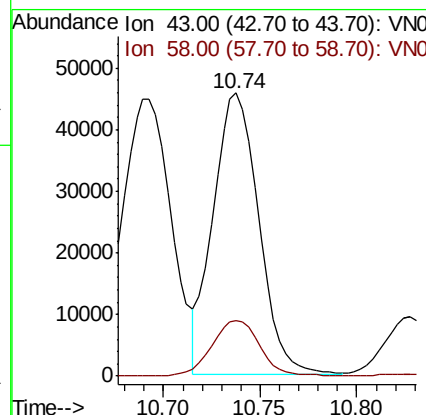
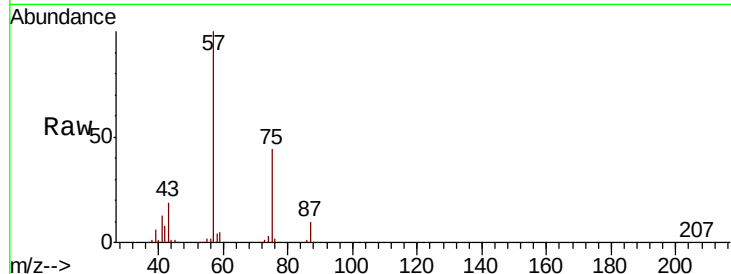




#59
2-Hexanone
Concen: 24.902 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.02 min
Lab File: VN061459.D
Acq: 19 May 2020 4:59

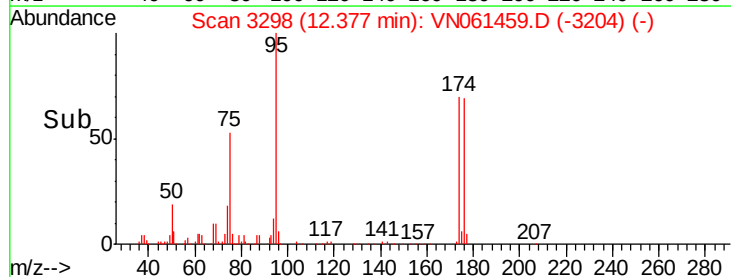
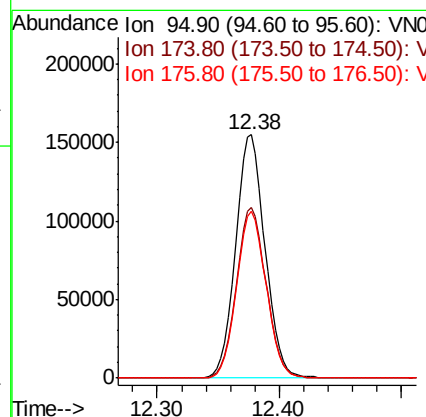
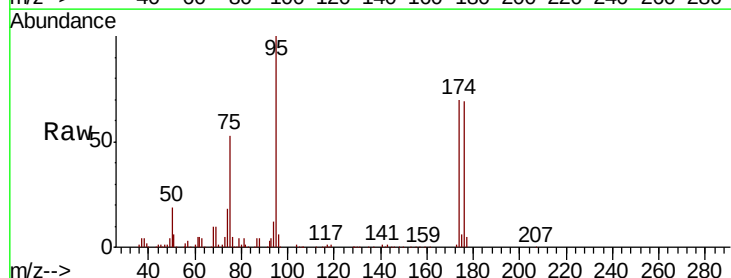
Instrument :
MSVOA_N
ClientSampled :
72-11944

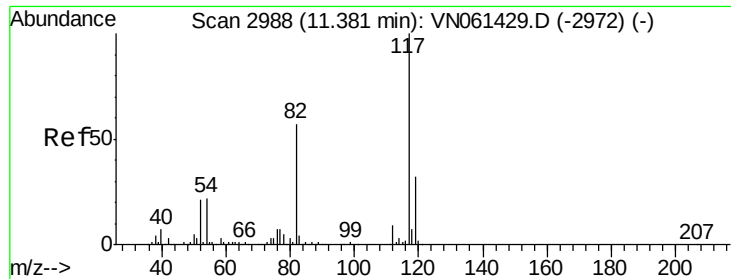
Tot Ion: 43 Resp: 75073
Ion Ratio Lower Upper
43 100
58 20.7 29.2 87.6#



#62
4-Bromofluorobenzene
Concen: 55.329 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN061459.D
Acq: 19 May 2020 4:59

Tgt Ion: 95 Resp: 259779
Ion Ratio Lower Upper
95 100
174 70.6 0.0 141.2
176 68.8 0.0 137.6

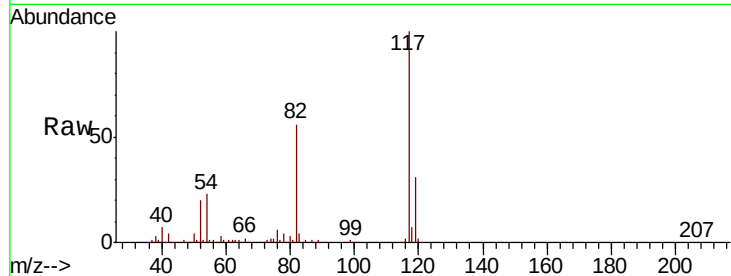




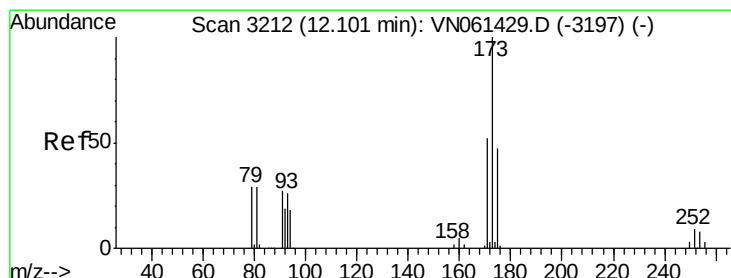
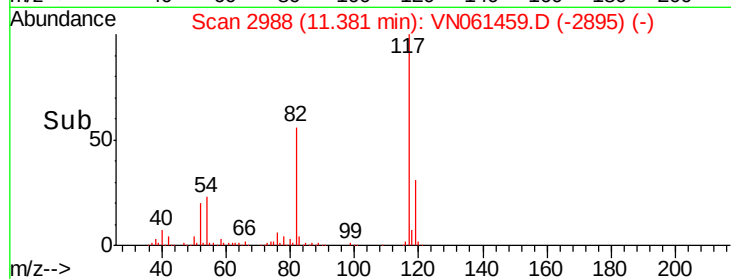
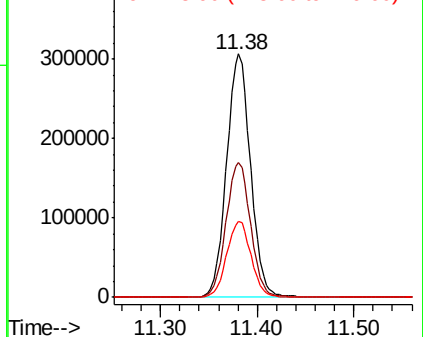
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN061459.D
Acq: 19 May 2020 4:59

Instrument :
MSVOA_N
ClientSampleId :
72-11944

Tot Ion:117 Resp: 526999
Ion Ratio Lower Upper
117 100
82 55.6 45.2 67.8
119 31.3 25.3 37.9

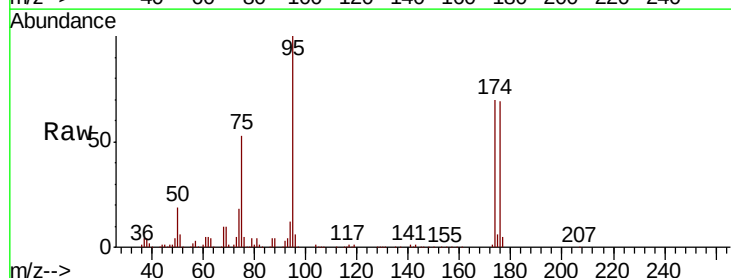


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

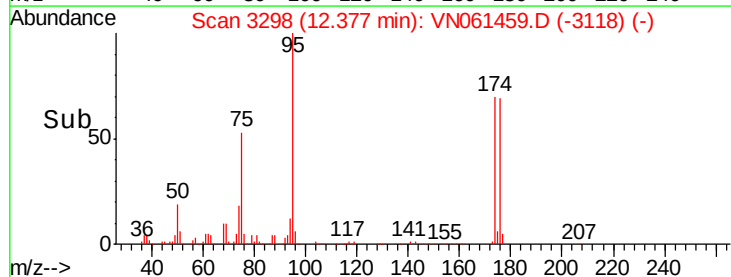
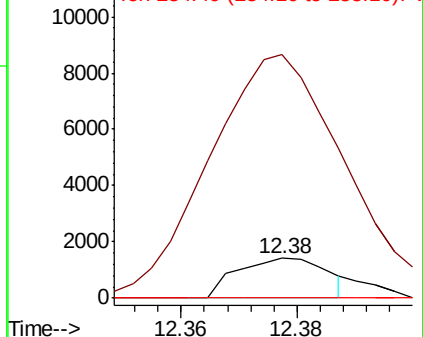


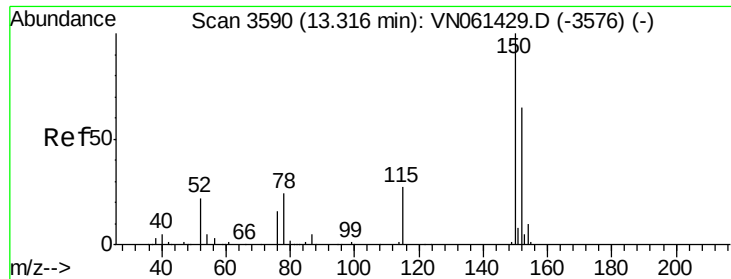
#71
Bromoform
Concen: 2.506 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN061459.D
Acq: 19 May 2020 4:59

Tgt Ion:173 Resp: 1517
Ion Ratio Lower Upper
173 100
175 795.8 23.9 71.8#
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: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061459.D

Acq: 19 May 2020 4:59

Instrument :

MSVOA_N

ClientSampleId :

72-11944

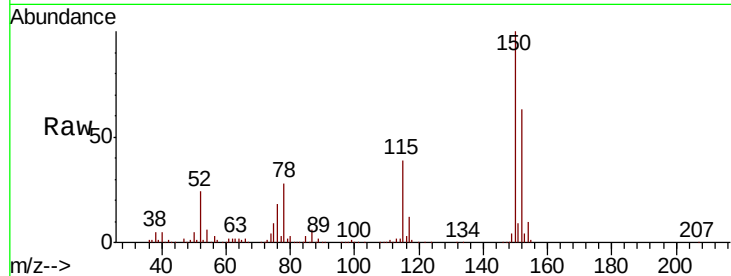
Tot Ion:152 Resp: 227490

Ion Ratio Lower Upper

152 100

115 62.5 30.9 92.5

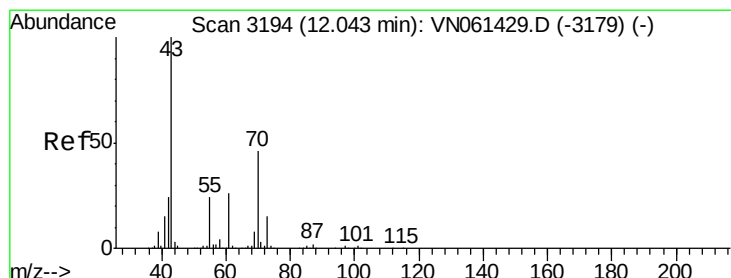
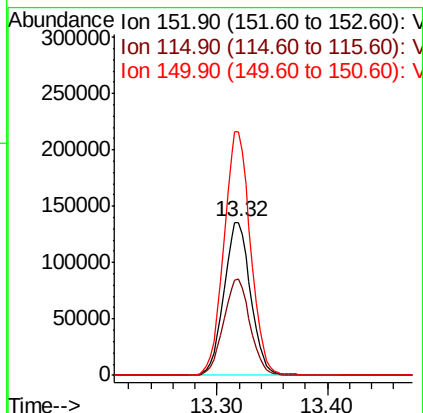
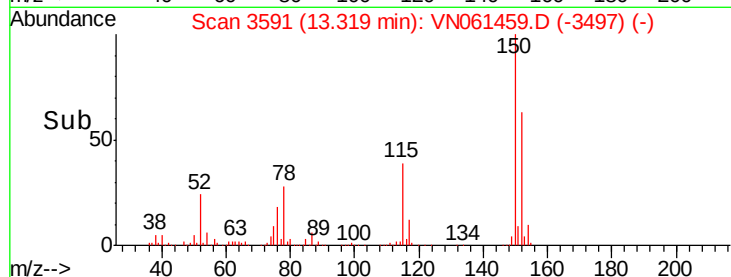
150 158.5 0.0 349.2



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-ethyl acetate

Concen: 0.507 ug/l

RT: 12.01 min Scan# 3183

Delta R.T. -0.04 min

Lab File: VN061459.D

Acq: 19 May 2020 4:59

Tgt Ion: 43 Resp: 3388

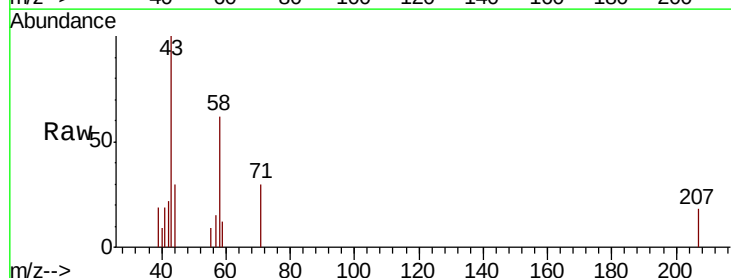
Ion Ratio Lower Upper

43 100

70 0.0 37.0 55.4#

55 1.9 19.5 29.3#

61 0.0 20.8 31.2#

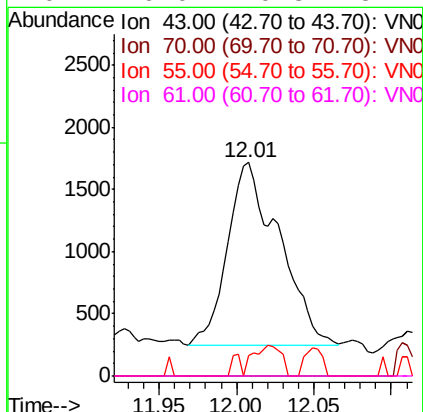
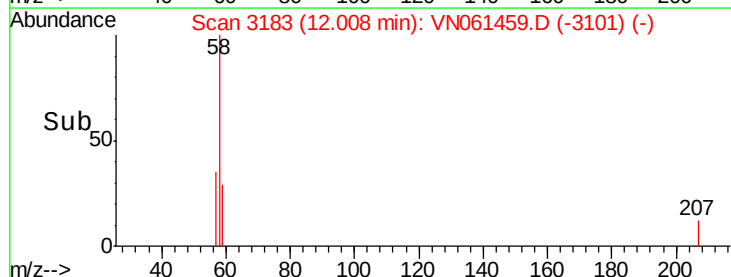


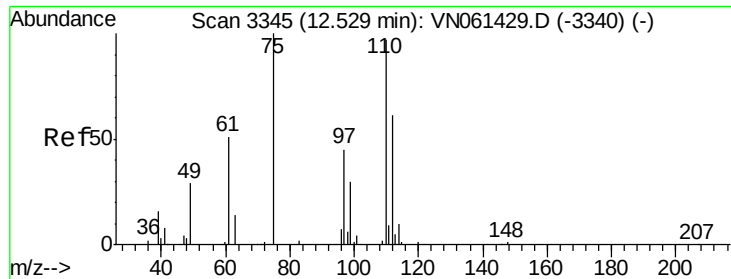
Abundance Ion 43.00 (42.70 to 43.70): V

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: 28.387 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061459.D

Acq: 19 May 2020 4:59

Instrument :

MSVOA_N

ClientSampled :

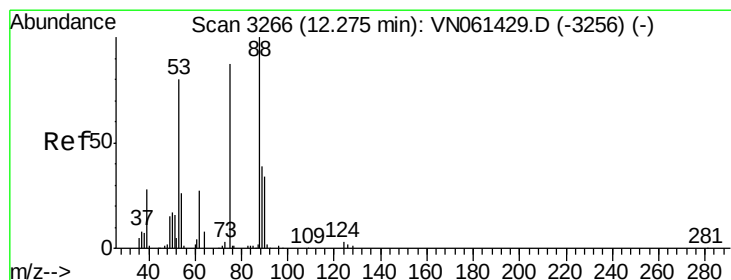
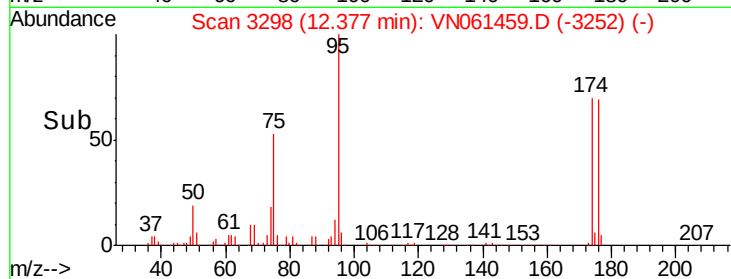
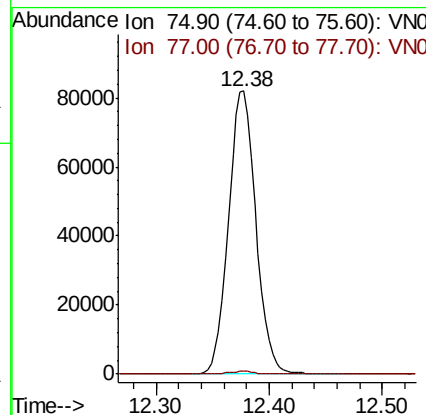
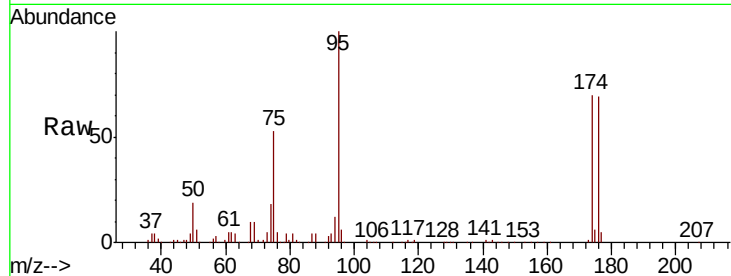
72-11944

Tot Ion: 75 Resp: 138568

Ion Ratio Lower Upper

75 100

77 0.9 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 75.305 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061459.D

Acq: 19 May 2020 4:59

Tgt Ion: 75 Resp: 138568

Ion Ratio Lower Upper

75 100

53 0.0 75.2 112.8#

89 0.1 38.2 57.4#

