

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092120\
 Data File : VN063485.D
 Acq On : 21 Sep 2020 14:58
 Operator : JC/MD
 Sample : L4053-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 1801

Quant Time: Sep 22 02:24:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	260007	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	480372	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	478958	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	220054	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	205000	46.32	ug/l	0.00
Spiked Amount						
			Recovery	=	92.64%	
35) Dibromofluoromethane	7.55	113	150243	45.18	ug/l	0.00
Spiked Amount						
			Recovery	=	90.36%	
50) Toluene-d8	10.06	98	611894	48.93	ug/l	0.00
Spiked Amount						
			Recovery	=	97.86%	
62) 4-Bromofluorobenzene	12.38	95	250313	54.61	ug/l	0.00
Spiked Amount						
			Recovery	=	109.22%	

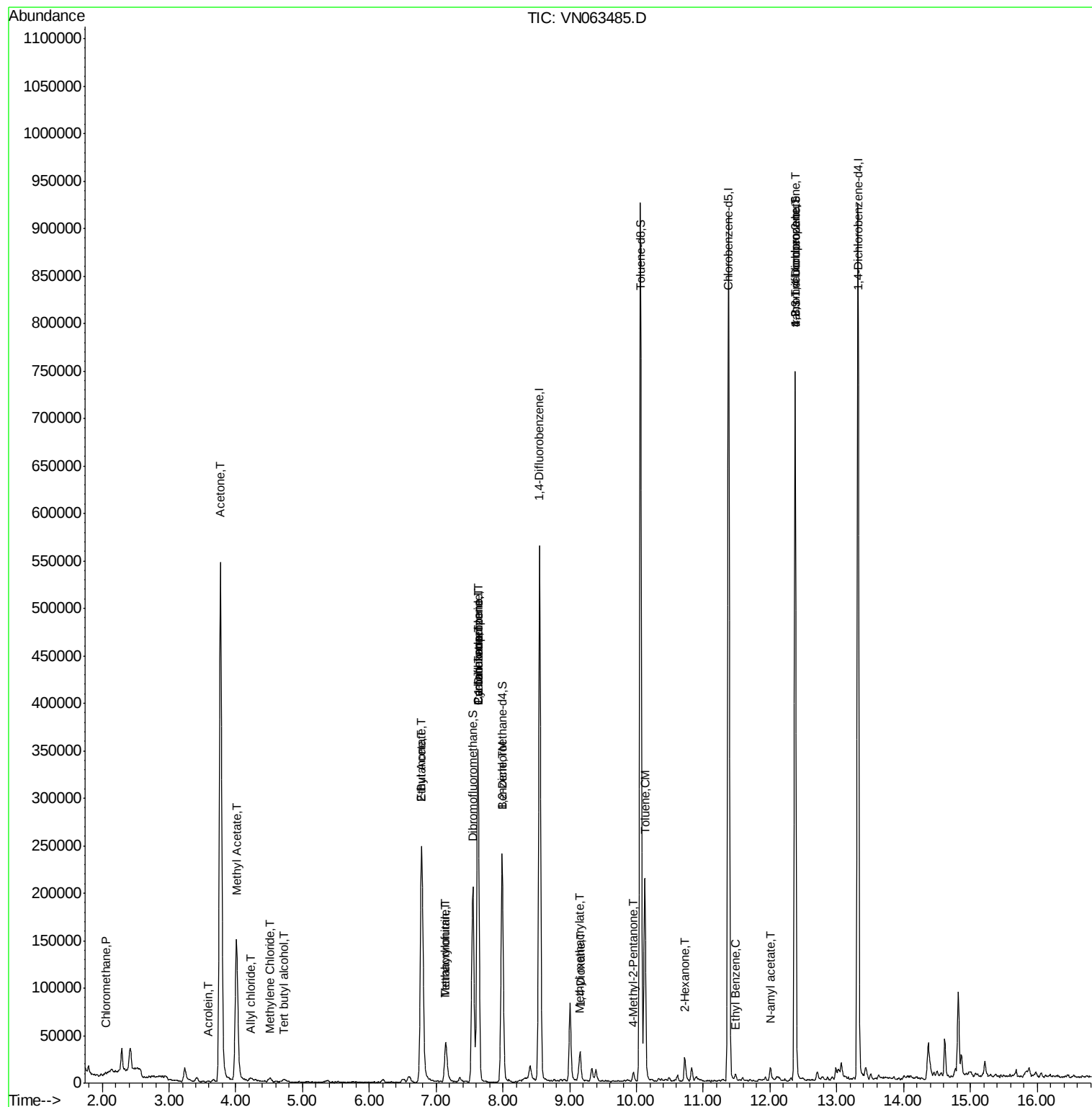
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1160	0.298	ug/l #	42
11) Tert butyl alcohol	4.72	59	4628	7.548	ug/l #	89
13) Acrolein	3.58	56	763	3.358	ug/l #	13
14) Allyl chloride	4.22	41	3119	0.537	ug/l #	50
16) Acetone	3.77	43	922945	648.845	ug/l	98
18) Methyl Acetate	4.01	43	56957	15.773	ug/l #	54
20) Methylene Chloride	4.50	84	1306	0.362	ug/l #	66
25) 2-Butanone	6.78	43	440924	201.548	ug/l	98
29) Tetrahydrofuran	7.15	42	974	0.652	ug/l #	55
31) Cyclohexane	7.62	56	7037	1.151	ug/l #	26
36) 1,1-Dichloropropene	7.63	75	24040	4.697	ug/l #	48
37) Ethyl Acetate	6.78	43	440924	87.785	ug/l #	70
38) Carbon Tetrachloride	7.63	117	29760	5.697	ug/l #	16
40) Benzene	8.00	78	8560	0.586	ug/l	93
41) Methacrylonitrile	7.15	41	8729	3.864	ug/l #	100
48) Methyl methacrylate	9.14	41	3141	0.712	ug/l #	20
49) 1,4-Dioxane	9.15	88	58	0.916	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	7518	1.495	ug/l	98
52) Toluene	10.13	92	88557	10.082	ug/l	99
59) 2-Hexanone	10.72	43	17755	4.874	ug/l	94
67) Ethyl Benzene	11.49	91	3912	0.204	ug/l	99
74) N-amyl acetate	12.00	43	10847	1.299	ug/l #	53
76) 1,2,3-Trichloropropane	12.38	75	140559	25.807	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	140559	70.752	ug/l #	7

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063485.D

Acq: 21 Sep 2020 14:58

Instrument :

MSVOA_N

ClientSampled :

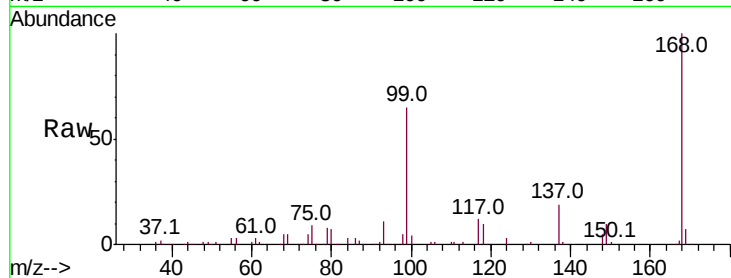
1801

Tot Ion:168 Resp: 260007

Ion Ratio Lower Upper

168 100

99 65.2 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

120000

100000

80000

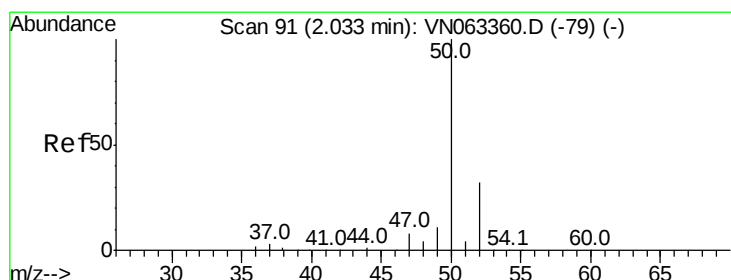
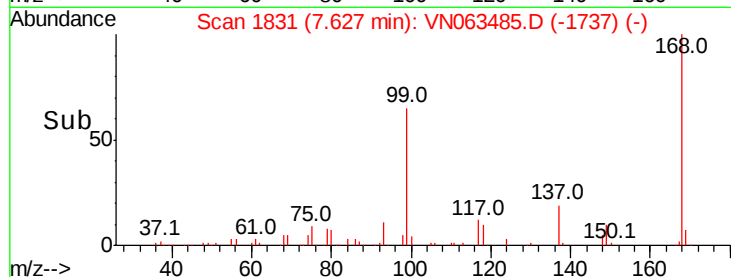
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.298 ug/l

RT: 2.04 min Scan# 93

Delta R.T. 0.01 min

Lab File: VN063485.D

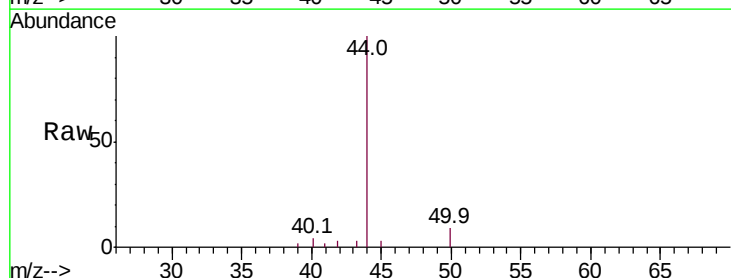
Acq: 21 Sep 2020 14:58

Tgt Ion: 50 Resp: 1160

Ion Ratio Lower Upper

50 100

52 0.0 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.04

800

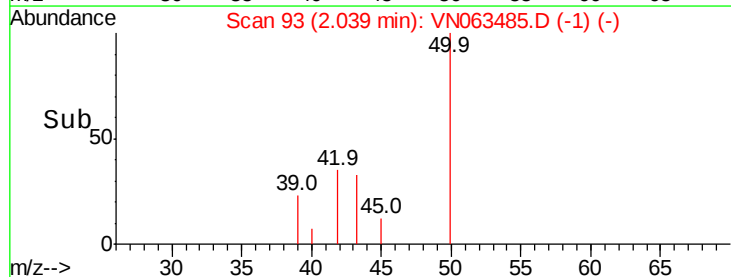
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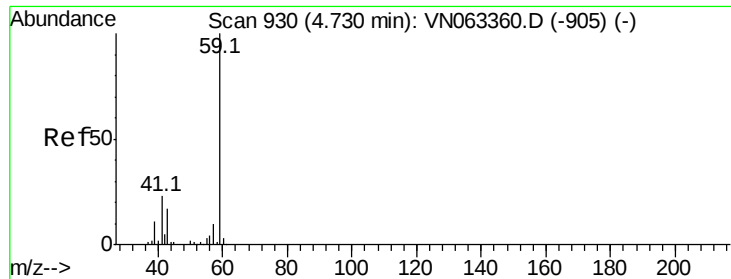
400

200

0

Time--> 2.00 2.05

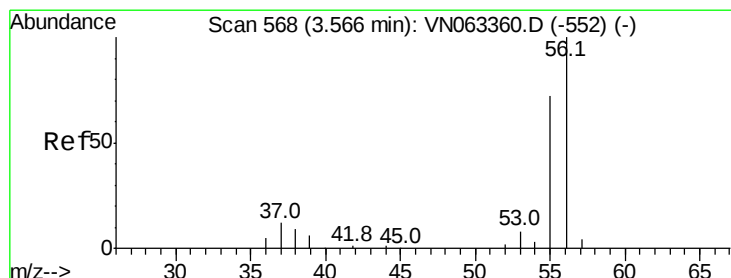
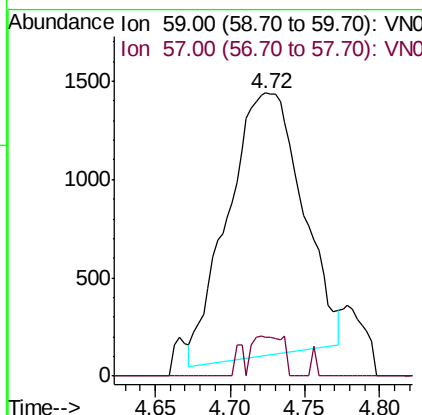
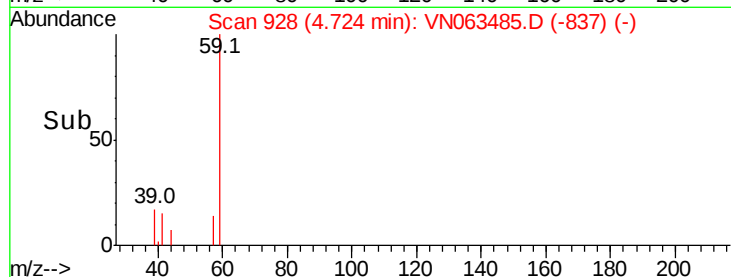
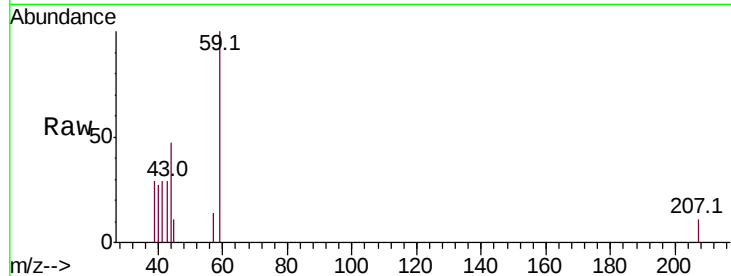




#11
Tert butvl alcohol
Concen: 7.548 ug/l
RT: 4.72 min Scan# 928
Delta R.T. -0.01 min
Lab File: VN063485.D
Acq: 21 Sep 2020 14:58

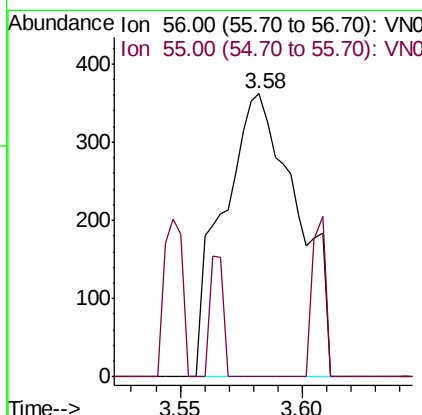
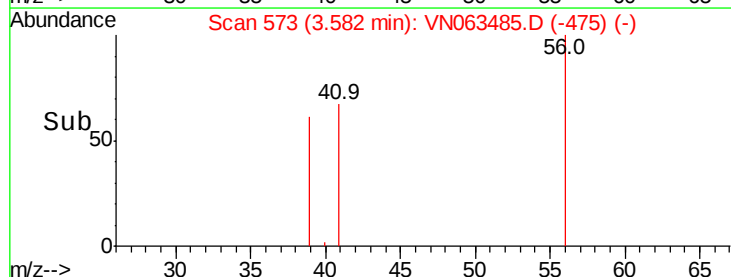
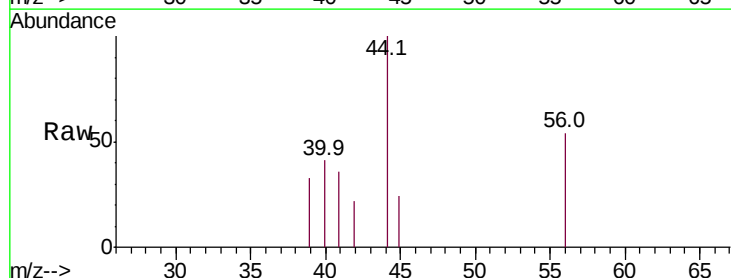
Instrument :
MSVOA_N
ClientSampled :
1801

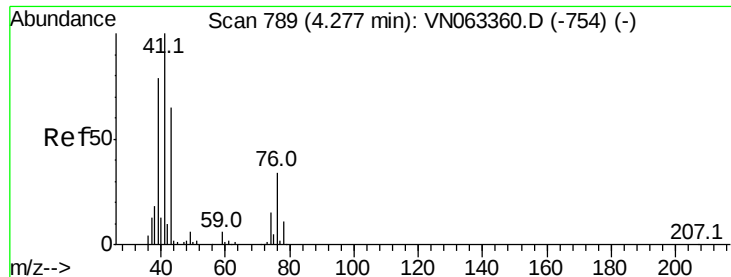
Tot Ion: 59 Resp: 4628
Ion Ratio Lower Upper
59 100
57 6.4 8.4 12.6#



#13
Acrolein
Concen: 3.358 ug/l
RT: 3.58 min Scan# 573
Delta R.T. 0.02 min
Lab File: VN063485.D
Acq: 21 Sep 2020 14:58

Tgt Ion: 56 Resp: 763
Ion Ratio Lower Upper
56 100
55 0.0 58.2 87.2#

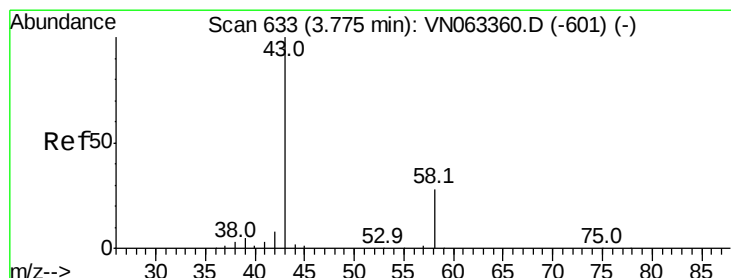
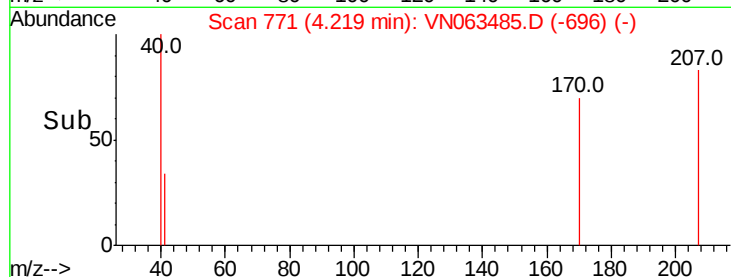
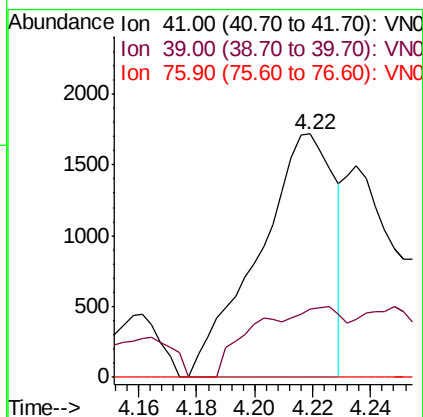
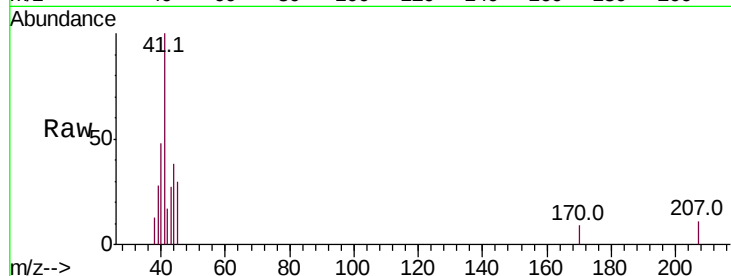




#14
Allvl chloride
Concen: 0.537 ug/l
RT: 4.22 min Scan# 771
Delta R.T. -0.06 min
Lab File: VN063485.D
Acq: 21 Sep 2020 14:58

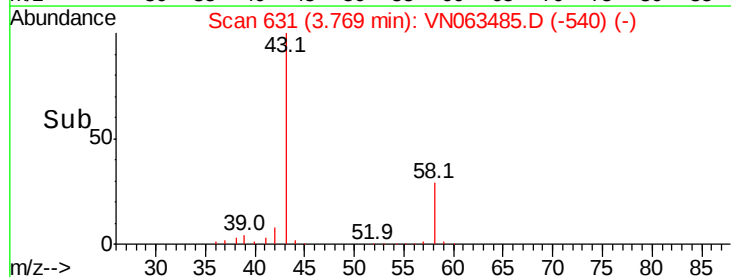
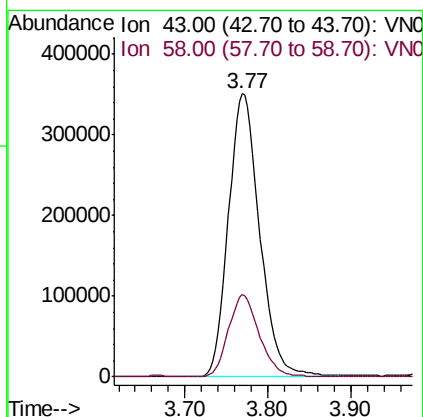
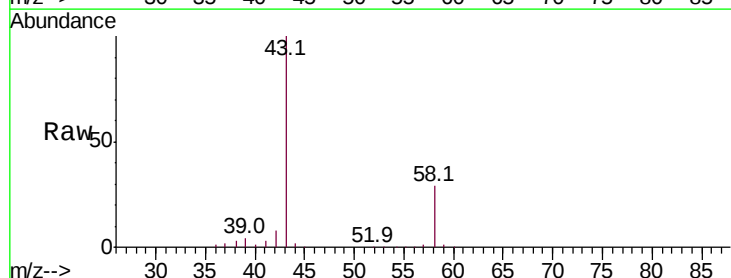
Instrument :
MSVOA_N
ClientSampled :
1801

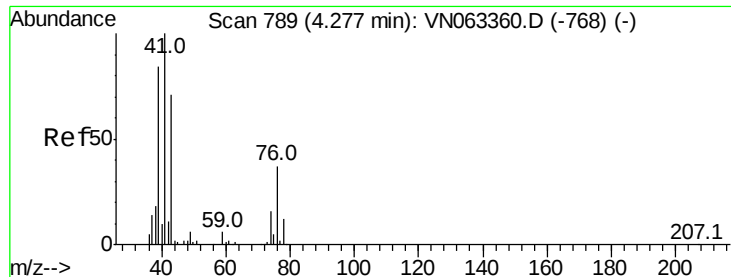
Tot Ion: 41 Resp: 3119
Ion Ratio Lower Upper
41 100
39 34.2 59.3 88.9#
76 0.0 25.3 37.9#



#16
Acetone
Concen: 648.845 ug/l
RT: 3.77 min Scan# 631
Delta R.T. -0.01 min
Lab File: VN063485.D
Acq: 21 Sep 2020 14:58

Tgt Ion: 43 Resp: 922945
Ion Ratio Lower Upper
43 100
58 28.9 22.3 33.5

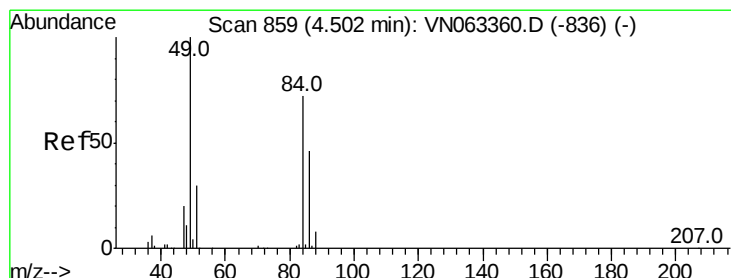
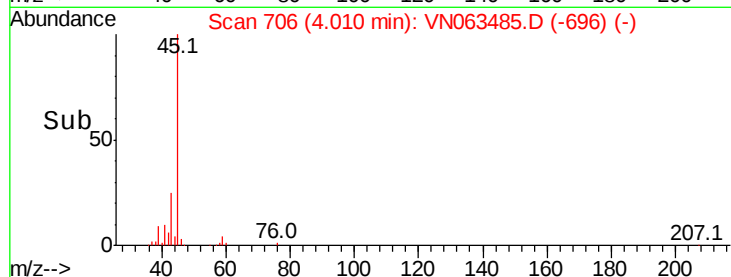
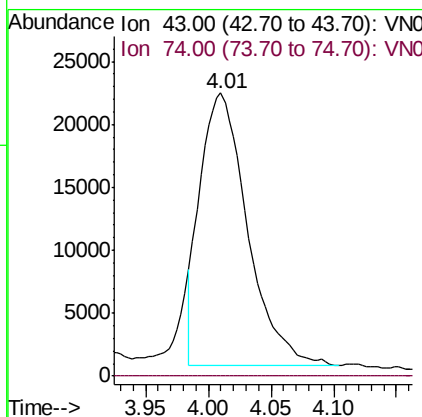
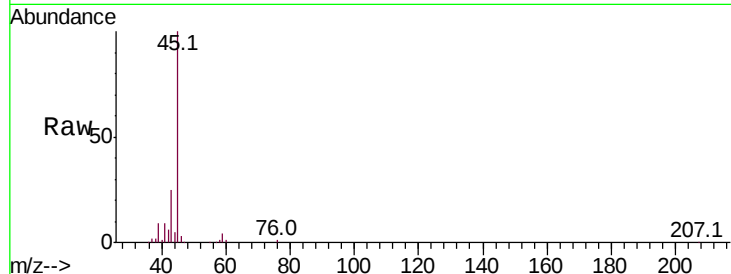




#18
Methyl Acetate
Concen: 15.773 ug/l
RT: 4.01 min Scan# 706
Delta R.T. -0.27 min
Lab File: VN063485.D
Acq: 21 Sep 2020 14:58

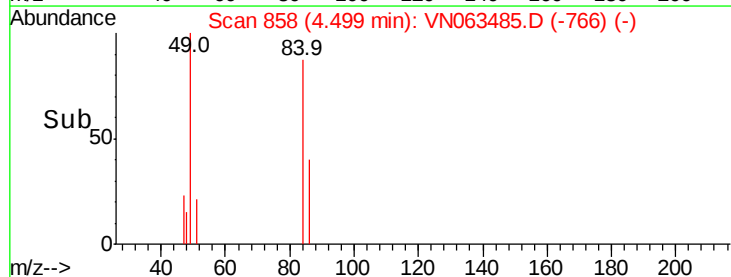
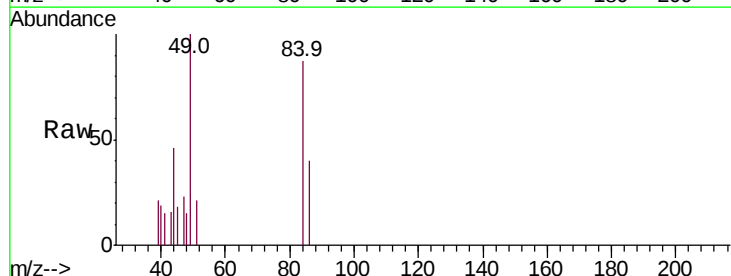
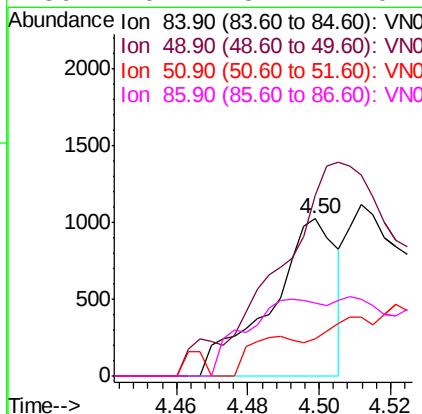
Instrument :
MSVOA_N
ClientSampled :
1801

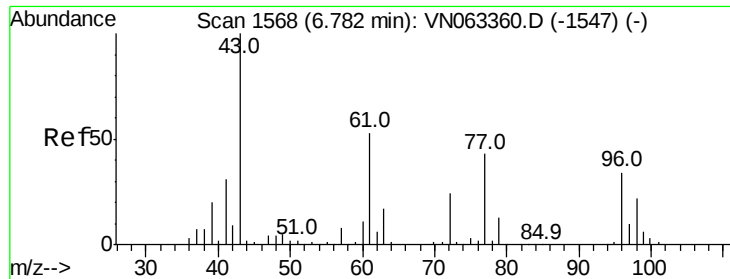
Tot Ion: 43 Resp: 56957
Ion Ratio Lower Upper
43 100
74 0.0 17.4 26.2#



#20
Methylene Chloride
Concen: 0.362 ug/l
RT: 4.50 min Scan# 858
Delta R.T. -0.00 min
Lab File: VN063485.D
Acq: 21 Sep 2020 14:58

Tgt Ion: 84 Resp: 1306
Ion Ratio Lower Upper
84 100
49 97.9 110.7 166.1#
51 8.1 32.9 49.3#
86 46.1 51.1 76.7#





#25

2-Butanone

Concen: 201.548 ug/l

RT: 6.78 min Scan# 1568

Delta R.T. -0.00 min

Lab File: VN063485.D

Acq: 21 Sep 2020 14:58

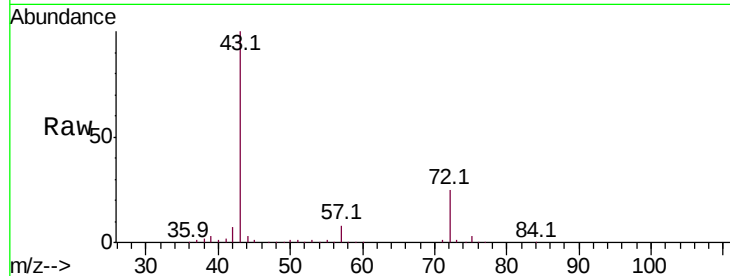
Instrument :
MSVOA_N
ClientSampleId :
1801

Tot Ion: 43 Resp: 440924

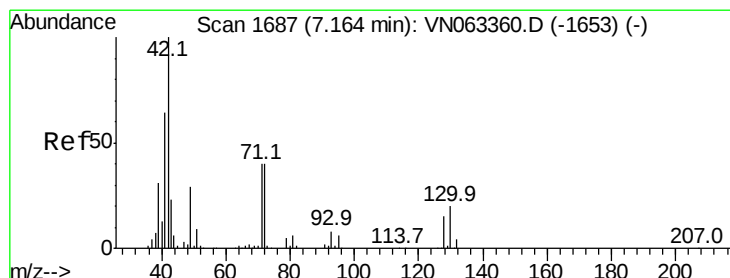
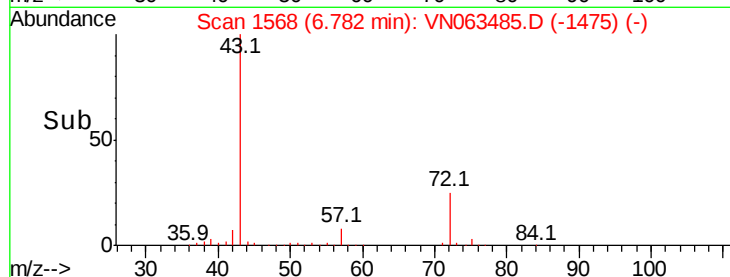
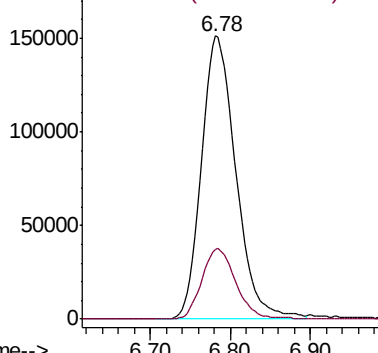
Ion Ratio Lower Upper

43 100

72 24.8 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 72.00 (71.70 to 72.70): VNC



#29

Tetrahydrofuran

Concen: 0.652 ug/l

RT: 7.15 min Scan# 1683

Delta R.T. -0.01 min

Lab File: VN063485.D

Acq: 21 Sep 2020 14:58

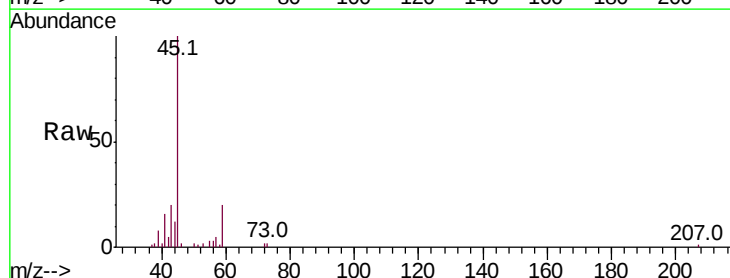
Tgt Ion: 42 Resp: 974

Ion Ratio Lower Upper

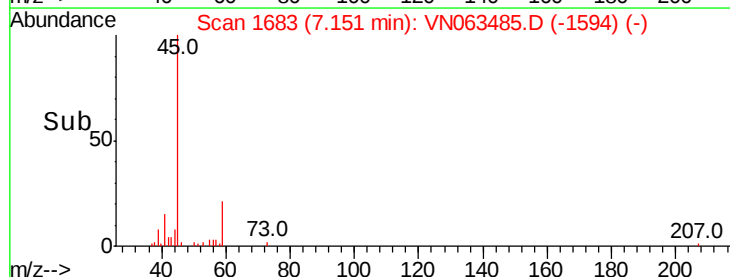
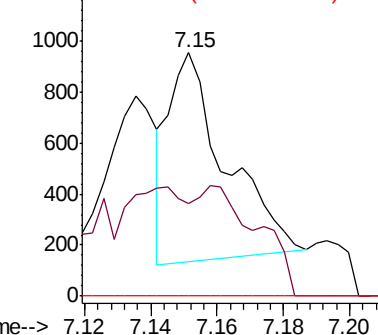
42 100

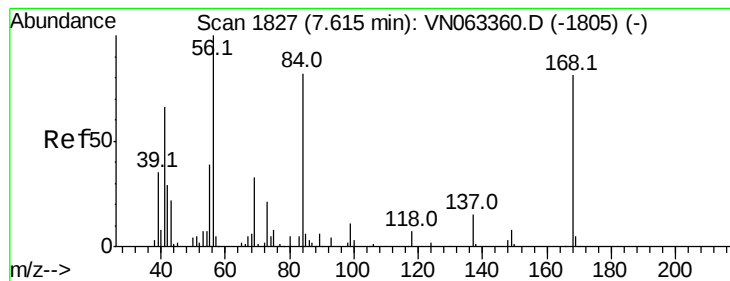
72 23.5 32.1 48.1#

71 0.0 31.2 46.8#



Abundance Ion 42.00 (41.70 to 42.70): VNC
Ion 72.00 (71.70 to 72.70): VNC
Ion 71.00 (70.70 to 71.70): VNC





#31

Cyclohexane

Concen: 1.151 ug/l

RT: 7.62 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN063485.D

Acq: 21 Sep 2020 14:58

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1801

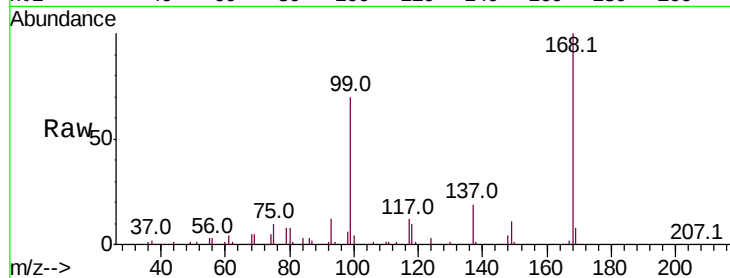
Tot Ion: 56 Resp: 7037

Ion Ratio Lower Upper

56 100

69 149.2 26.1 39.1#

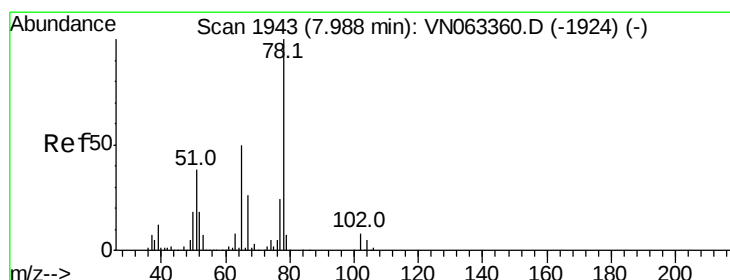
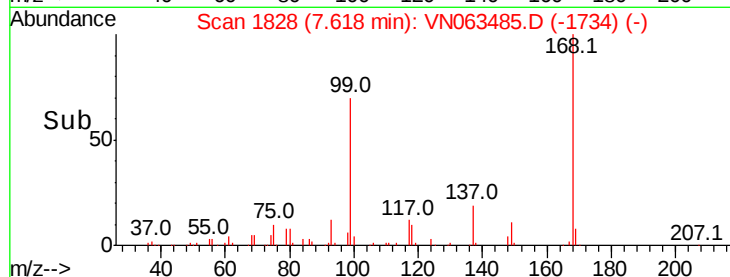
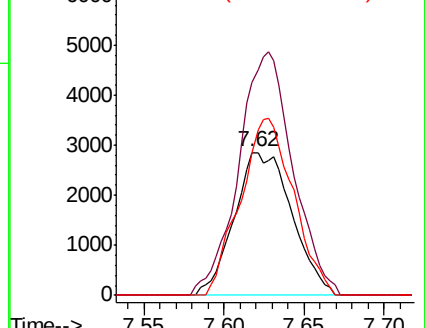
84 100.2 65.4 98.2#



Abundance Ion 56.00 (55.70 to 56.70): VN063360.D (-1805) (-)

Ion 69.00 (68.70 to 69.70): VN063360.D (-1805) (-)

Ion 84.00 (83.70 to 84.70): VN063360.D (-1805) (-)



#33

1,2-Dichloroethane-d4

Concen: 46.317 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063485.D

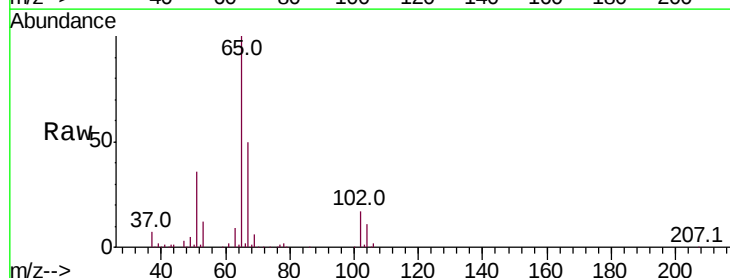
Acq: 21 Sep 2020 14:58

Tgt Ion: 65 Resp: 205000

Ion Ratio Lower Upper

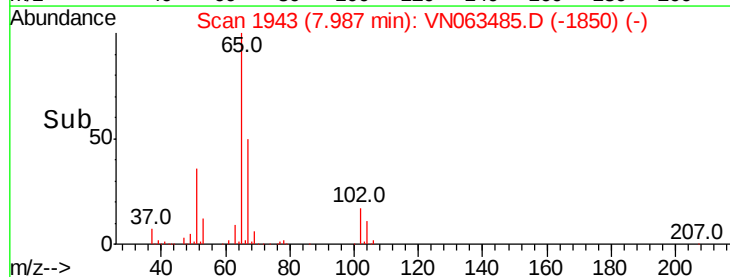
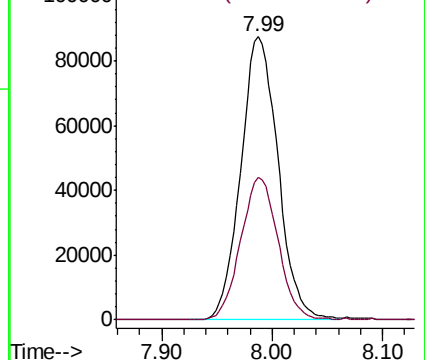
65 100

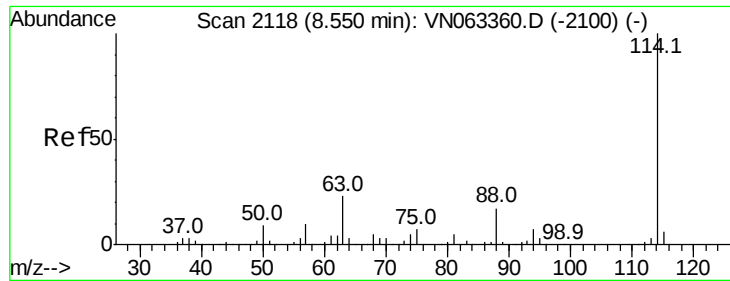
67 50.5 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VN063360.D (-1924) (-)

Ion 66.90 (66.60 to 67.60): VN063360.D (-1924) (-)

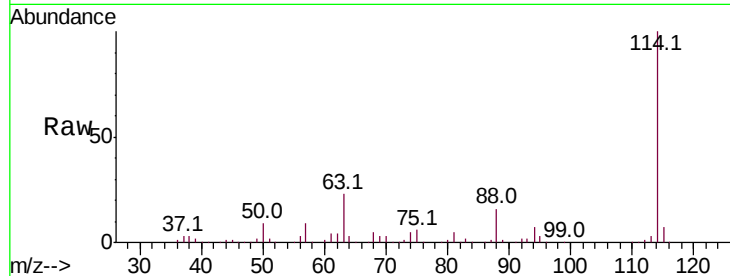




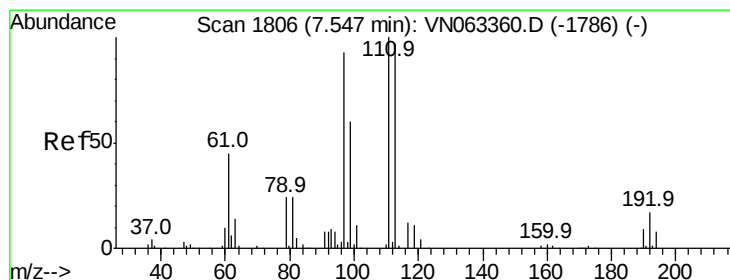
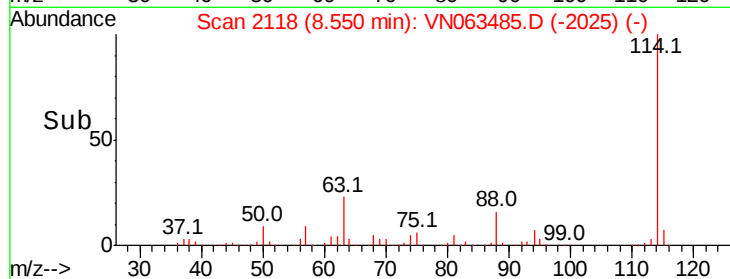
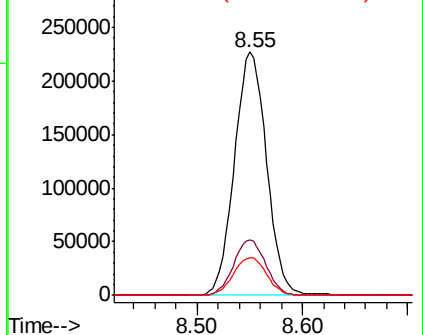
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063485.D
 Acq: 21 Sep 2020 14:58

Instrument :
 MSVOA_N
 ClientSampleId :
 1801

Tot Ion:114 Resp: 480372
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 46.4
 88 15.5 0.0 33.2

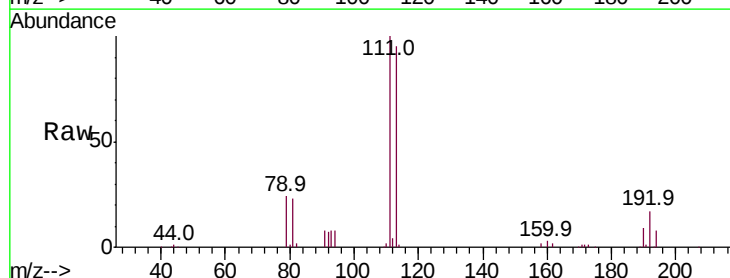


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

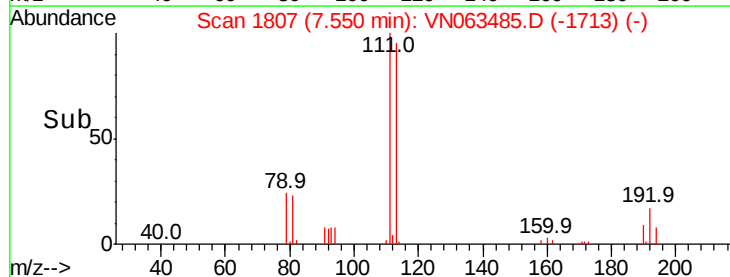
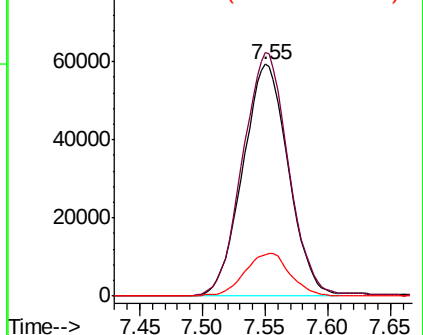


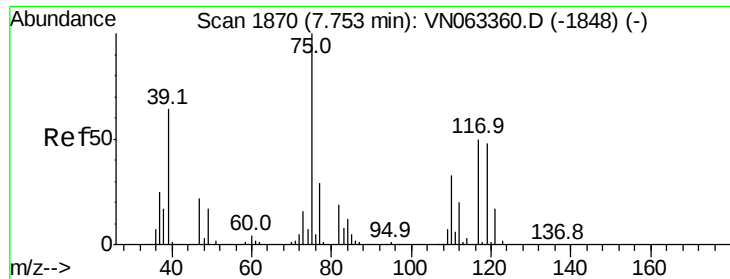
#35
 Dibromofluoromethane
 Concen: 45.179 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063485.D
 Acq: 21 Sep 2020 14:58

Tgt Ion:113 Resp: 150243
 Ion Ratio Lower Upper
 113 100
 111 105.2 82.9 124.3
 192 18.3 13.9 20.9



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

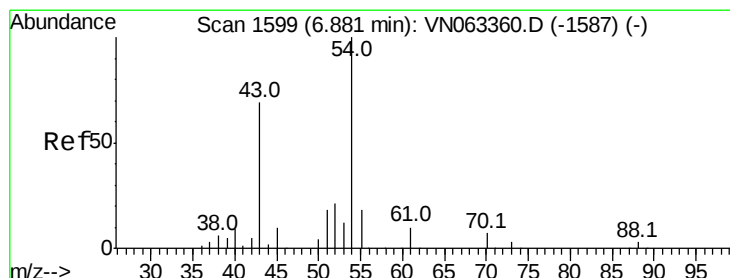
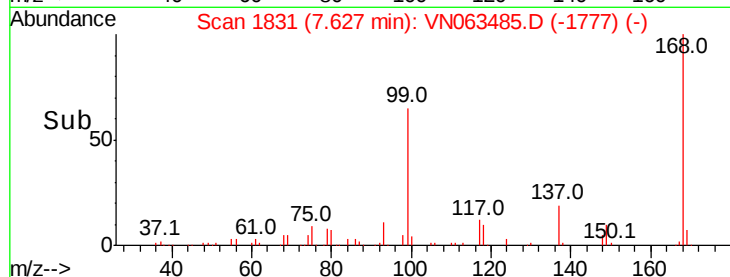
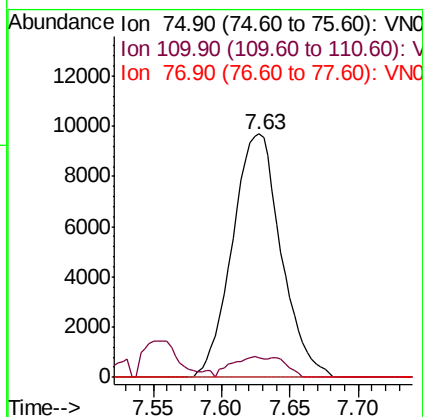
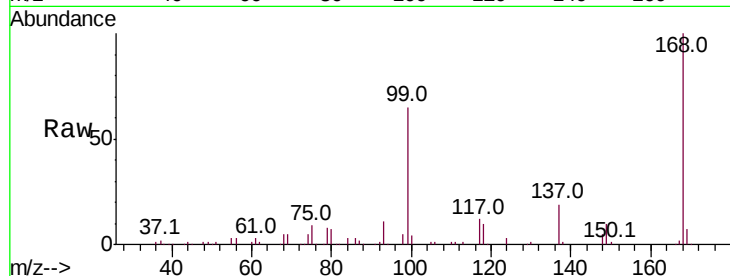




#36
 1,1-Dichloropropene
 Concen: 4.697 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063485.D
 Acq: 21 Sep 2020 14:58

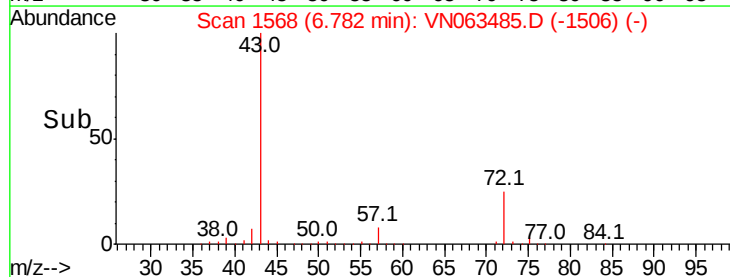
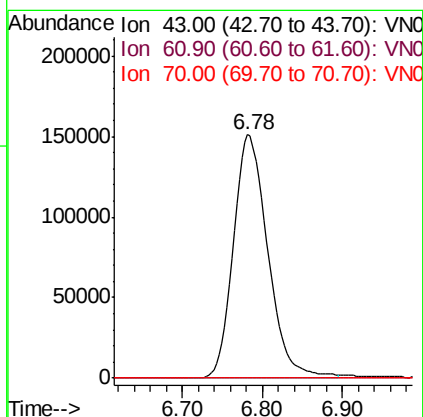
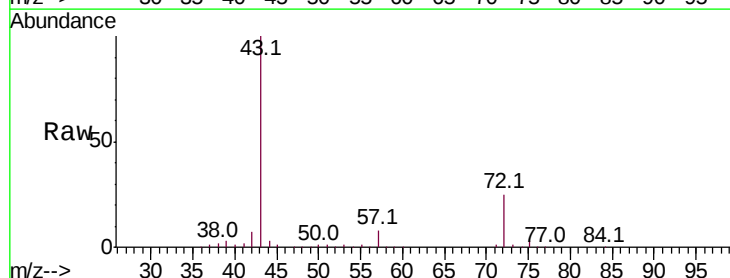
Instrument :
 MSVOA_N
 ClientSampleId :
 1801

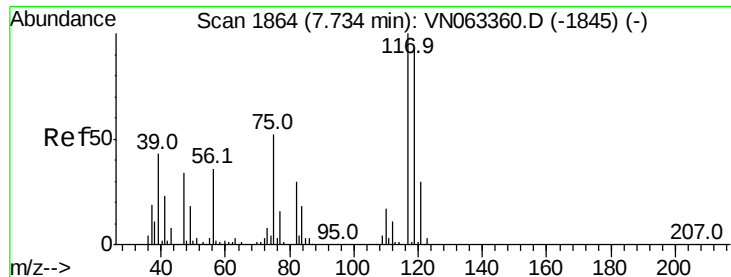
Tot Ion: 75 Resp: 24040
 Ion Ratio Lower Upper
 75 100
 110 5.5 16.5 49.5#
 77 0.0 24.6 36.8#



#37
 Ethyl Acetate
 Concen: 87.785 ug/l
 RT: 6.78 min Scan# 1568
 Delta R.T. -0.10 min
 Lab File: VN063485.D
 Acq: 21 Sep 2020 14:58

Tgt Ion: 43 Resp: 440924
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.6 15.8#
 70 0.0 7.2 10.8#

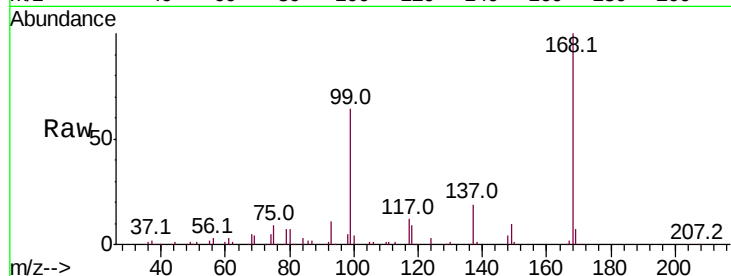




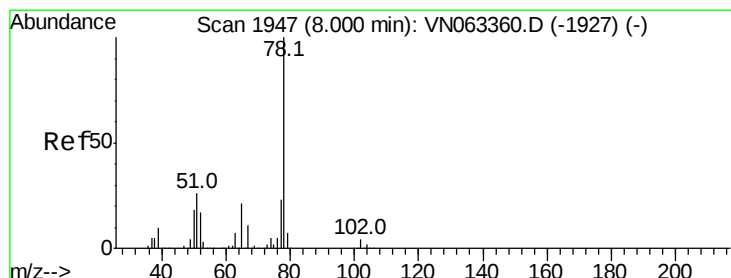
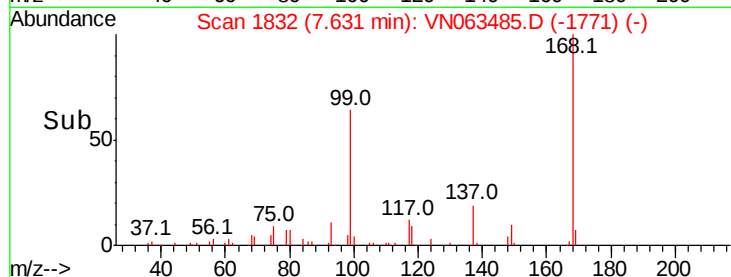
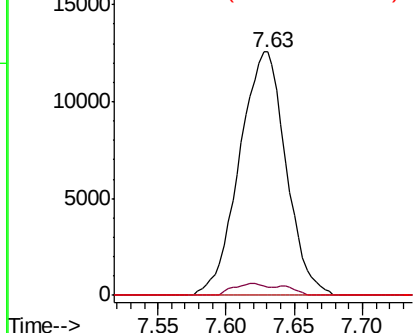
#38
Carbon Tetrachloride
Concen: 5.697 ug/l
RT: 7.63 min Scan# 1832
Delta R.T. -0.10 min
Lab File: VN063485.D
Acq: 21 Sep 2020 14:58

Instrument :
MSVOA_N
ClientSampleId :
1801

Tot Ion:117 Resp: 29760
Ion Ratio Lower Upper
117 100
119 3.4 74.5 111.7#
121 0.0 24.1 36.1#

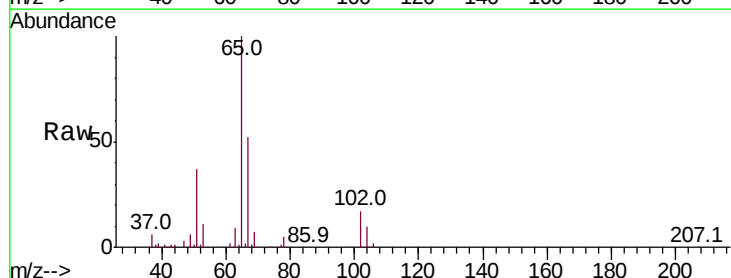


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

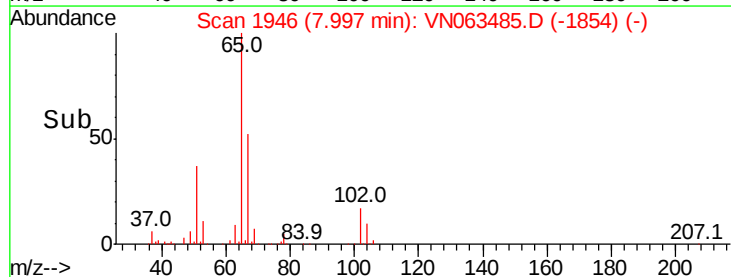
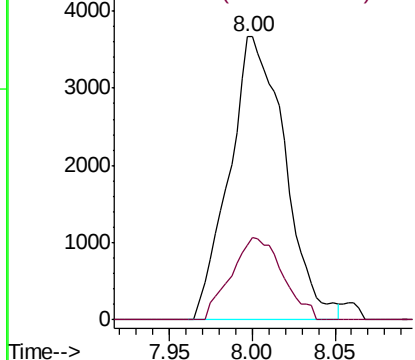


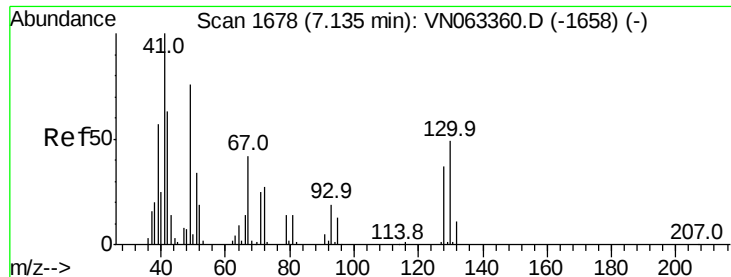
#40
Benzene
Concen: 0.586 ug/l
RT: 8.00 min Scan# 1946
Delta R.T. -0.00 min
Lab File: VN063485.D
Acq: 21 Sep 2020 14:58

Tgt Ion: 78 Resp: 8560
Ion Ratio Lower Upper
78 100
77 26.5 18.3 27.5



Abundance Ion 78.00 (77.70 to 78.70): VN0
Ion 77.00 (76.70 to 77.70): VN0

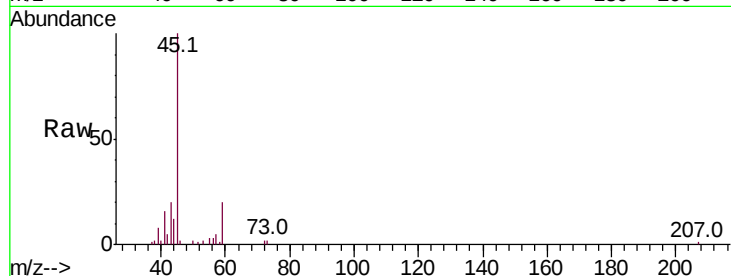




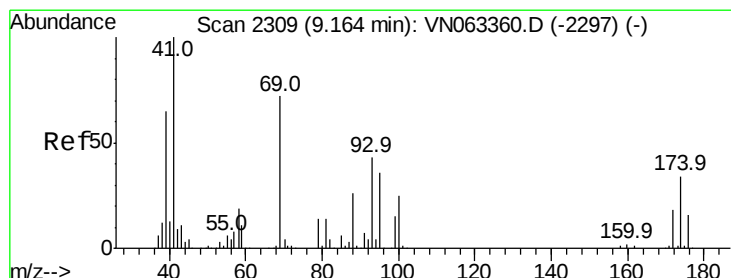
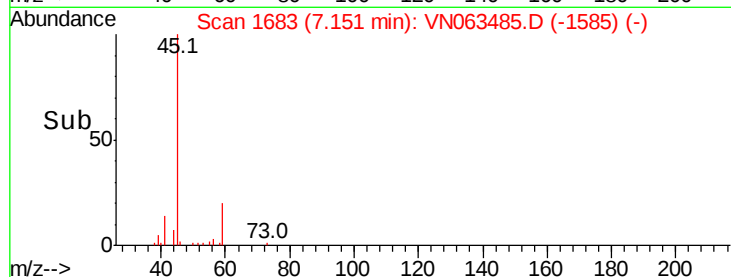
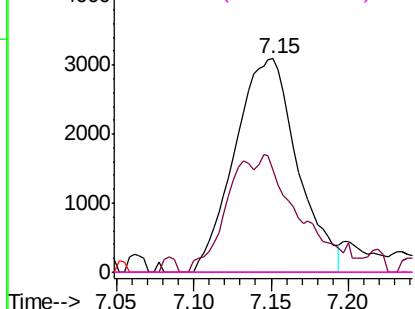
#41
Methacrylonitrile
Concen: 3.864 ug/l
RT: 7.15 min Scan# 1683
Delta R.T. 0.02 min
Lab File: VN063485.D
Acq: 21 Sep 2020 14:58

Instrument :
MSVOA_N
ClientSampled :
1801

Tot Ion:	41	Resp:	8729
Ion	Ratio	Lower	Upper
41	100		
39	25.1	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0

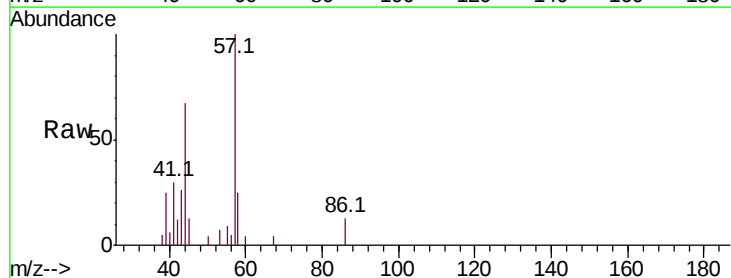


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO

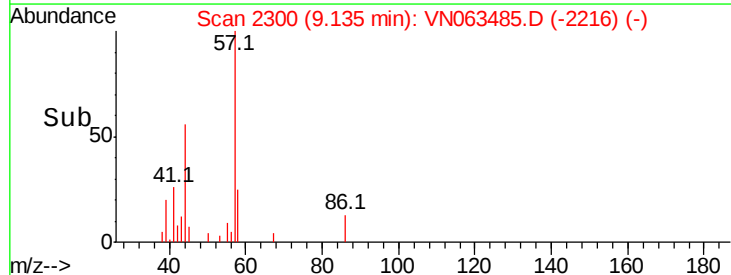
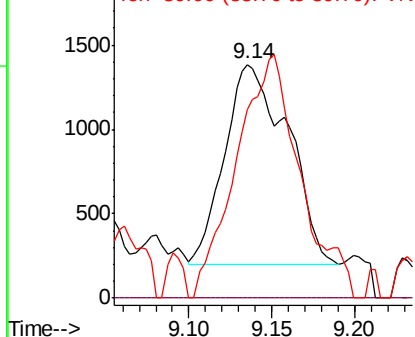


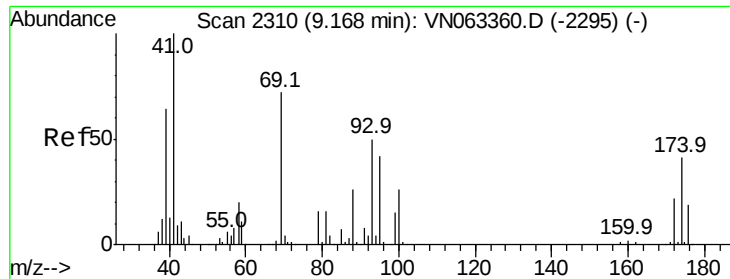
#48
Methyl methacrylate
Concen: 0.712 ug/l
RT: 9.14 min Scan# 2300
Delta R.T. -0.03 min
Lab File: VN063485.D
Acq: 21 Sep 2020 14:58

Tgt Ion:	41	Resp:	3141
Ion	Ratio	Lower	Upper
41	100		
69	0.0	59.3	88.9#
39	123.0	52.9	79.3#



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





#49

1,4-Dioxane

Concen: 0.916 ug/l

RT: 9.15 min Scan# 2305

Delta R.T. -0.02 min

Lab File: VN063485.D

Acq: 21 Sep 2020 14:58

Instrument :

MSVOA_N

ClientSampled :

1801

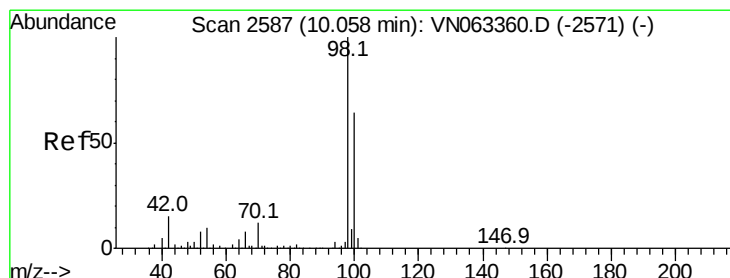
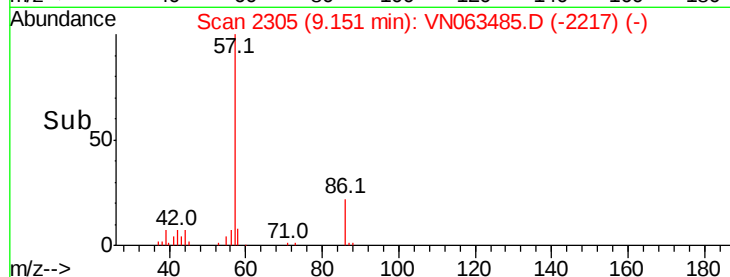
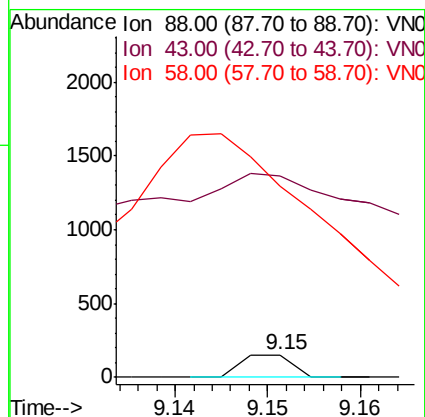
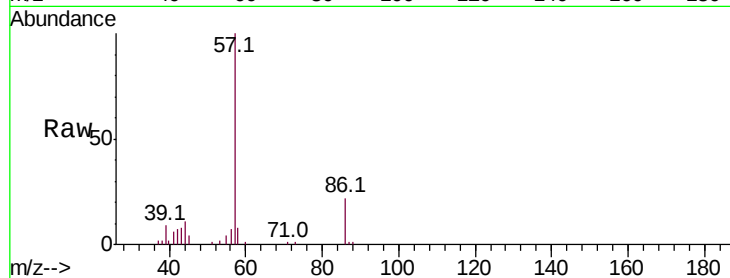
Tot Ion: 88 Resp: 58

Ion Ratio Lower Upper

88 100

43 0.0 32.6 49.0#

58 6443.1 60.0 90.0#



#50

Toluene-d8

Concen: 48.934 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063485.D

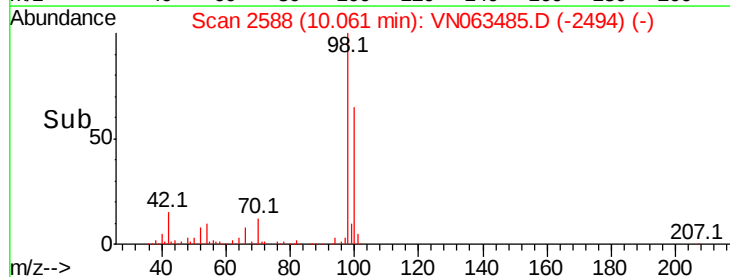
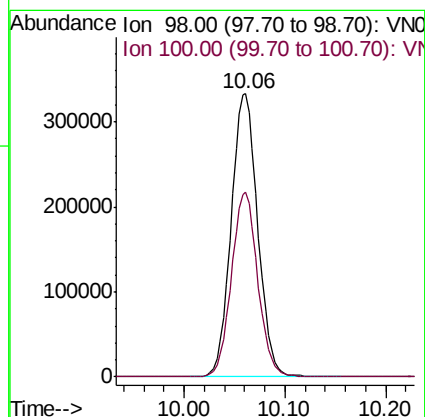
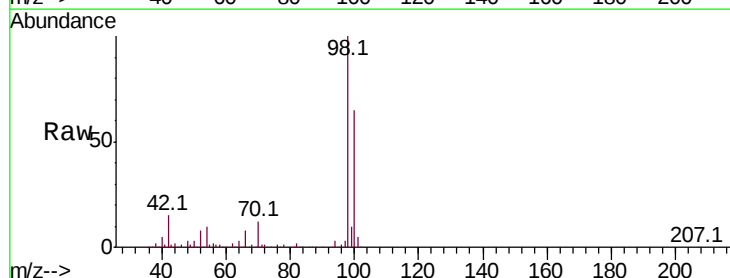
Acq: 21 Sep 2020 14:58

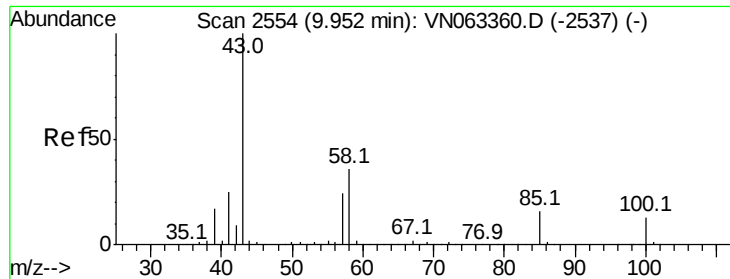
Tgt Ion: 98 Resp: 611894

Ion Ratio Lower Upper

98 100

100 64.5 50.7 76.1





#51

4-Methyl-2-Pentanone

Concen: 1.495 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063485.D

Acq: 21 Sep 2020 14:58

Instrument :

MSVOA_N

ClientSampled :

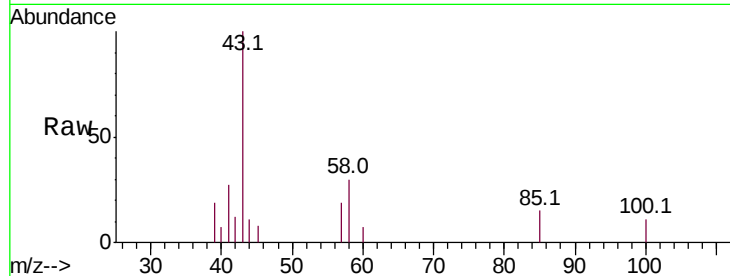
1801

Tot Ion: 43 Resp: 7518

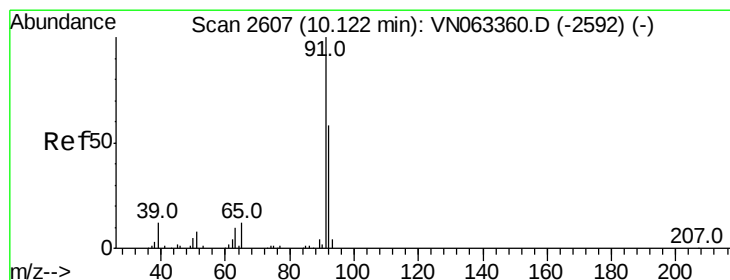
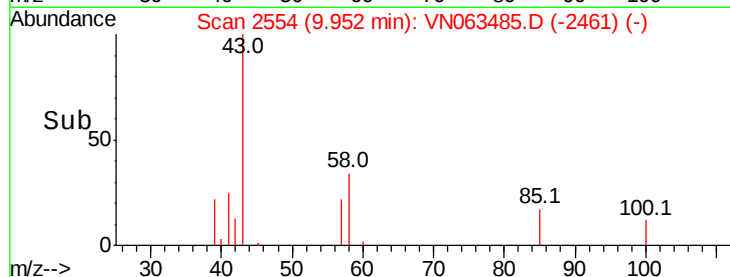
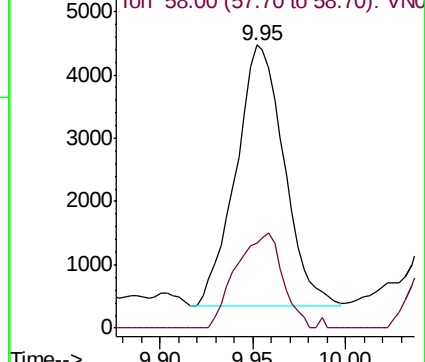
Ion Ratio Lower Upper

43 100

58 34.9 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-2537) (-)



#52

Toluene

Concen: 10.082 ug/l

RT: 10.13 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VN063485.D

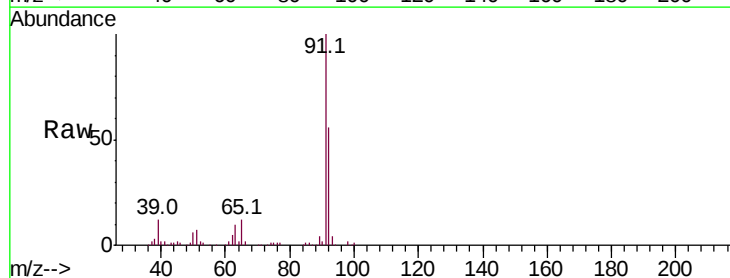
Acq: 21 Sep 2020 14:58

Tgt Ion: 92 Resp: 88557

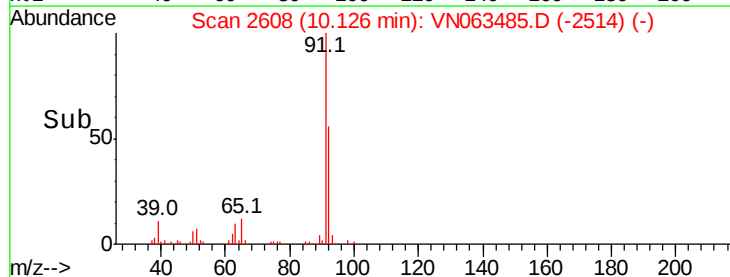
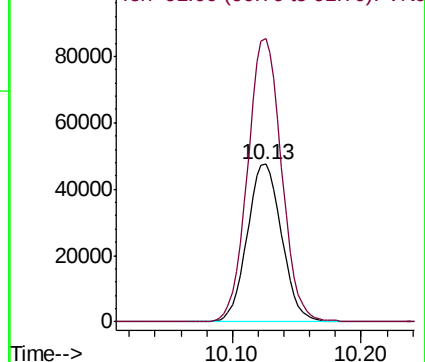
Ion Ratio Lower Upper

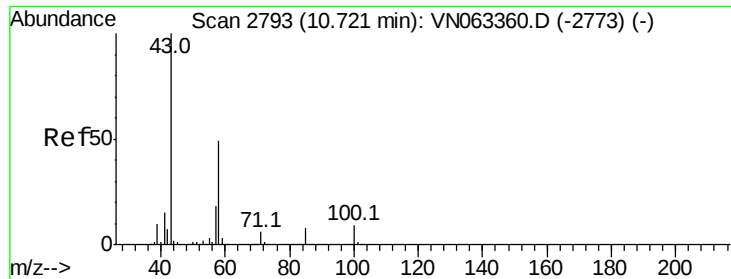
92 100

91 176.6 139.7 209.5



Abundance Ion 92.00 (91.70 to 92.70): VN063360.D (-2592) (-)

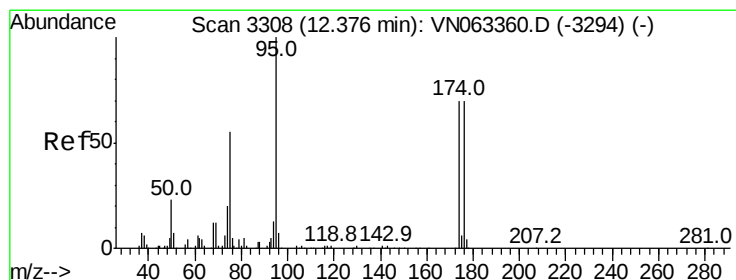
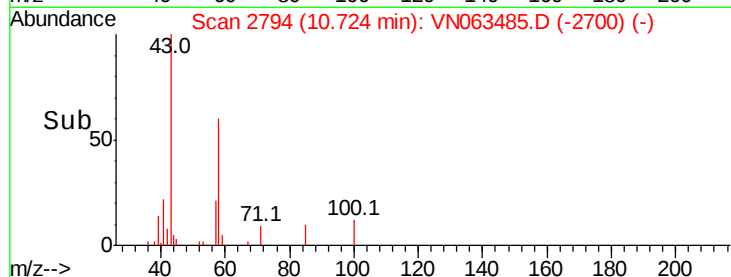
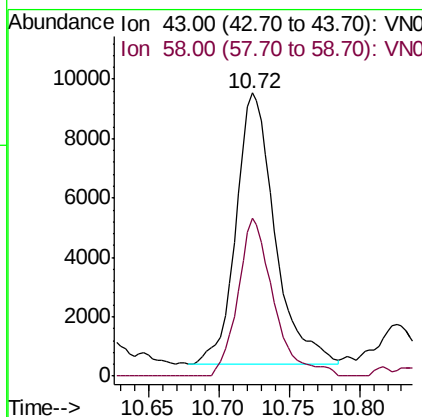
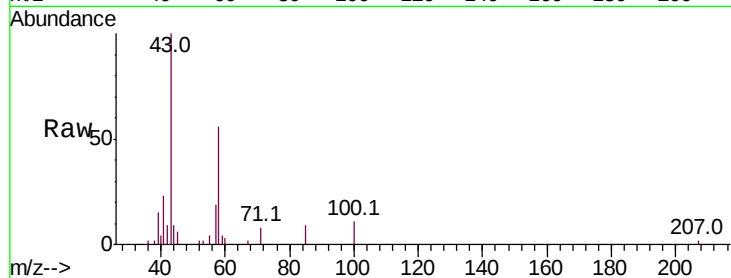




#59
2-Hexanone
Concen: 4.874 ug/l
RT: 10.72 min Scan# 2794
Delta R.T. 0.00 min
Lab File: VN063485.D
Acq: 21 Sep 2020 14:58

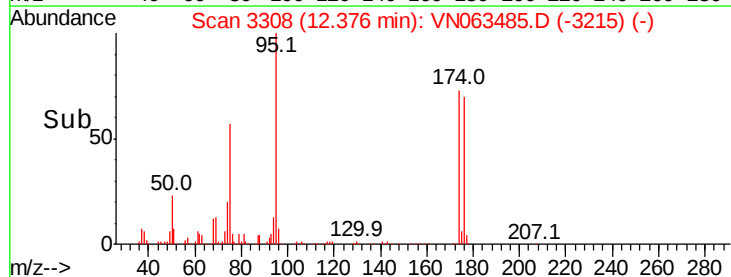
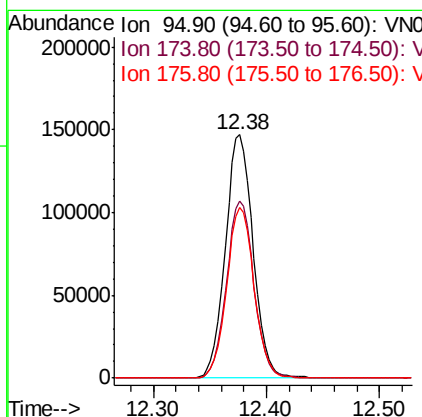
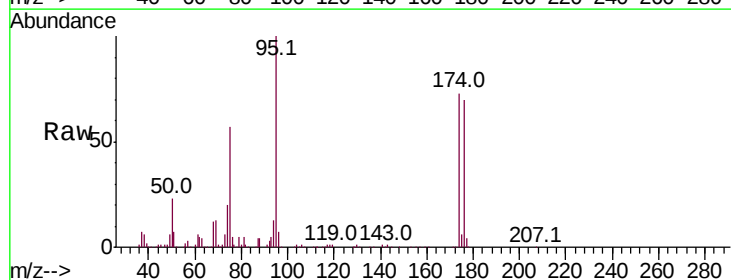
Instrument :
MSVOA_N
ClientSampled :
1801

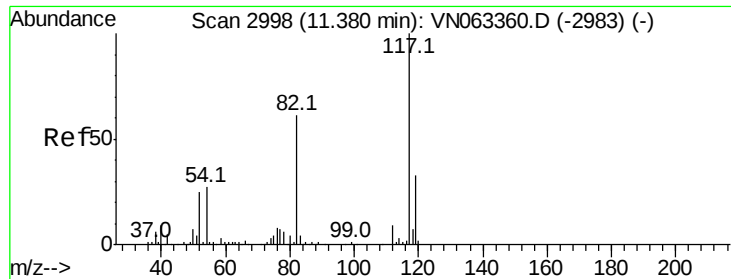
Tot Ion: 43 Resp: 17755
Ion Ratio Lower Upper
43 100
58 53.2 24.7 74.1



#62
4-Bromofluorobenzene
Concen: 54.607 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN063485.D
Acq: 21 Sep 2020 14:58

Tgt Ion: 95 Resp: 250313
Ion Ratio Lower Upper
95 100
174 71.8 0.0 140.8
176 69.3 0.0 137.6

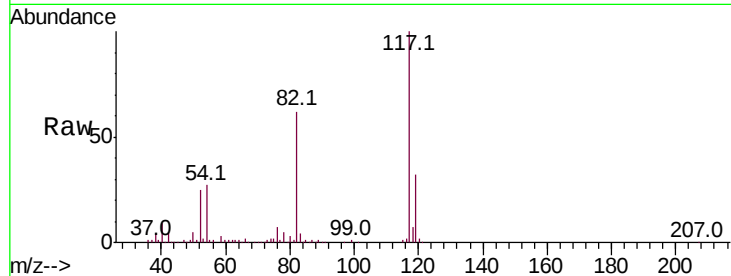




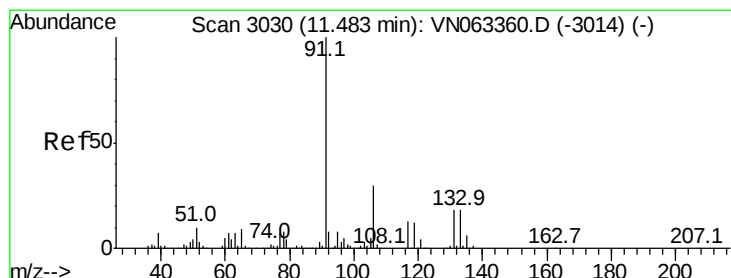
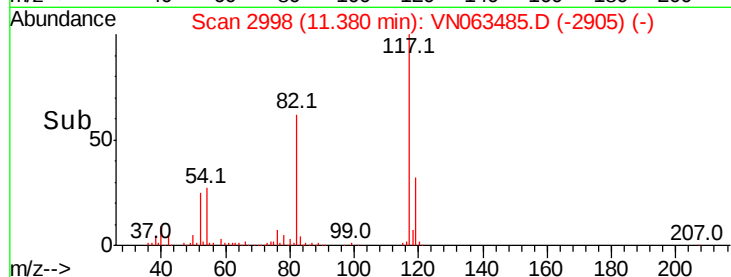
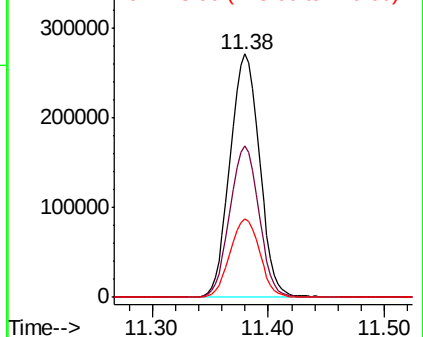
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063485.D
Acq: 21 Sep 2020 14:58

Instrument :
MSVOA_N
ClientSampled :
1801

Tot Ion:117 Resp: 478958
Ion Ratio Lower Upper
117 100
82 62.3 49.2 73.8
119 32.1 26.2 39.4

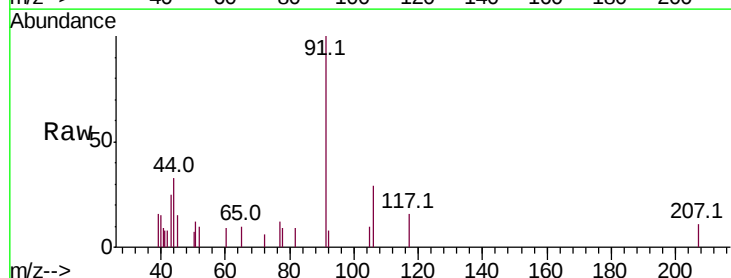


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

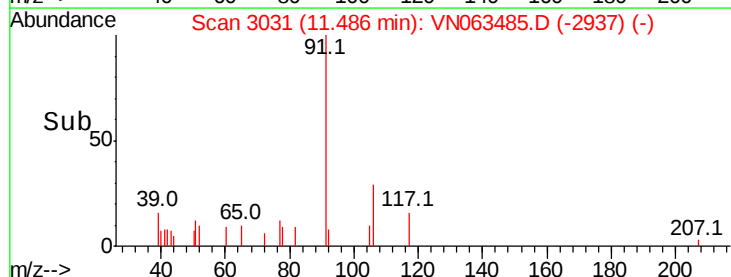
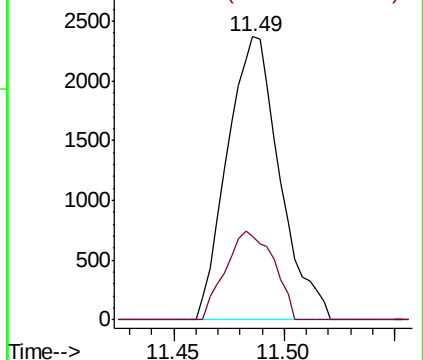


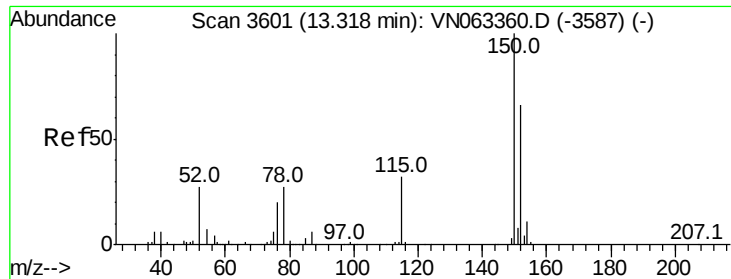
#67
Ethyl Benzene
Concen: 0.204 ug/l
RT: 11.49 min Scan# 3031
Delta R.T. 0.00 min
Lab File: VN063485.D
Acq: 21 Sep 2020 14:58

Tgt Ion: 91 Resp: 3912
Ion Ratio Lower Upper
91 100
106 29.4 23.8 35.6



Abundance Ion 91.00 (90.70 to 91.70): VN
Ion 106.00 (105.70 to 106.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063485.D

Acq: 21 Sep 2020 14:58

Instrument :

MSVOA_N

ClientSampled :

1801

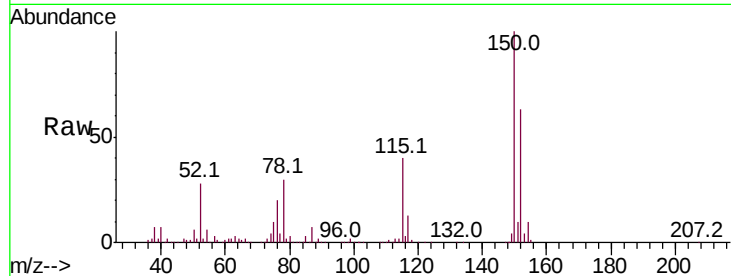
Tot Ion:152 Resp: 220054

Ion Ratio Lower Upper

152 100

115 63.8 32.2 96.6

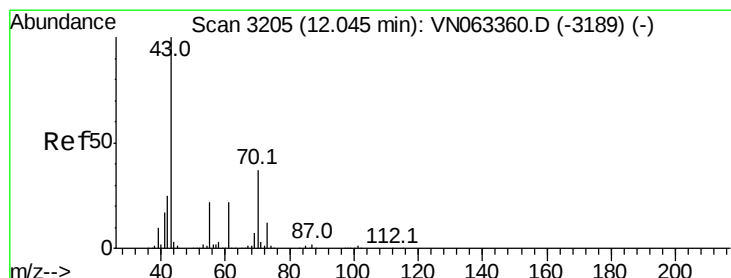
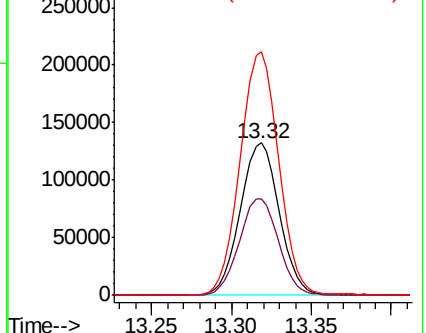
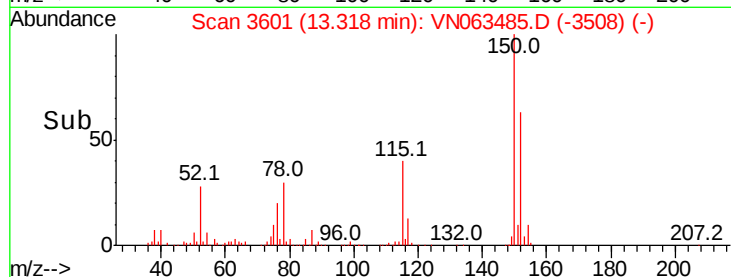
150 158.8 0.0 343.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 1.299 ug/l

RT: 12.00 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN063485.D

Acq: 21 Sep 2020 14:58

Tgt Ion: 43 Resp: 10847

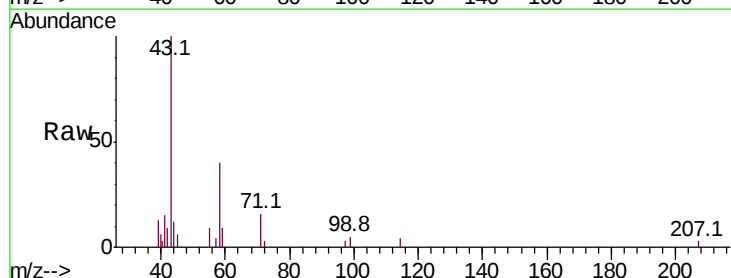
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 10.6 17.7 26.5#

61 0.6 17.4 26.2#

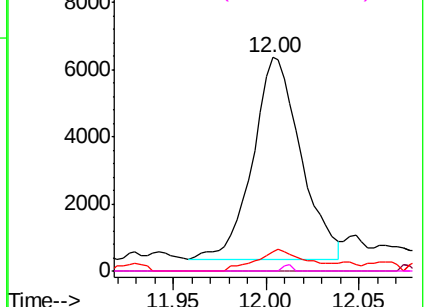
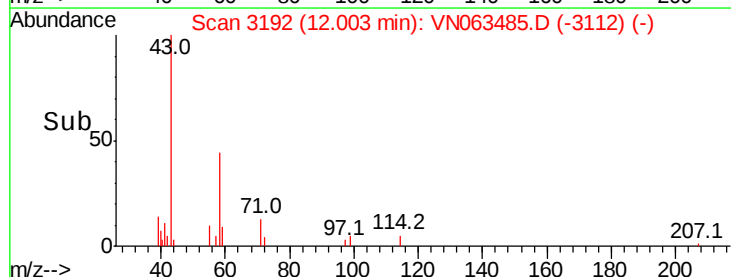


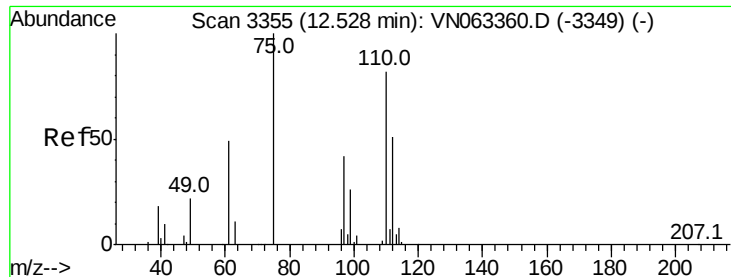
Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 25.807 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063485.D

Acq: 21 Sep 2020 14:58

Instrument :

MSVOA_N

ClientSampleId :

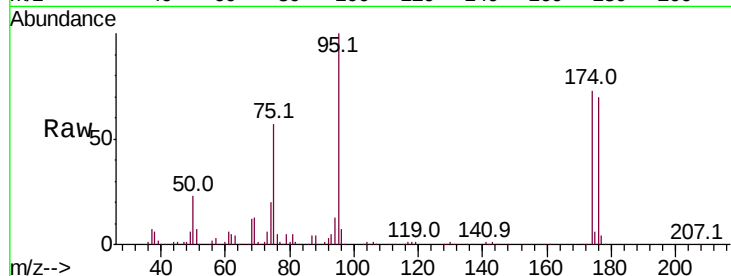
1801

Tot Ion: 75 Resp: 140559

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

12.38

80000

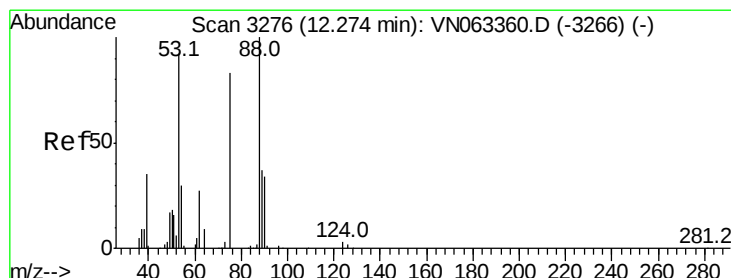
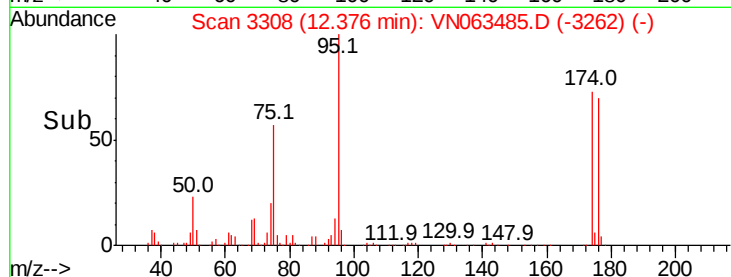
60000

40000

20000

0

Time--> 12.30 12.35 12.40 12.45



#81

trans-1,4-Dichloro-2-butene

Concen: 70.752 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063485.D

Acq: 21 Sep 2020 14:58

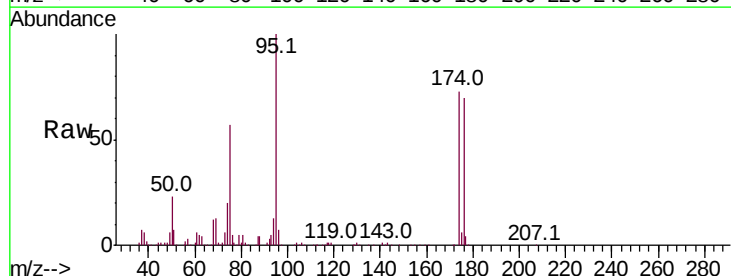
Tgt Ion: 75 Resp: 140559

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#



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

12.38

80000

60000

40000

20000

0

Time--> 12.30 12.35 12.40 12.45

