

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100920\
 Data File : VN064067.D
 Acq On : 10 Oct 2020 4:25
 Operator : JC/MD
 Sample : L4318-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 214

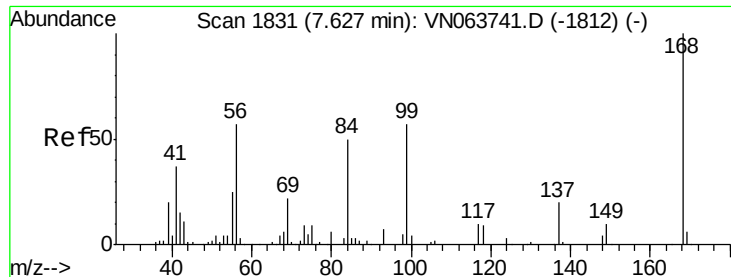
Quant Time: Oct 10 05:50:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 01:46:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	205726	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	416924	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	423504	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	161345	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	185337	54.53	ug/l	0.00
Spiked Amount			Recovery	=	109.06%	
35) Dibromofluoromethane	7.55	113	135790	46.94	ug/l	0.00
Spiked Amount			Recovery	=	93.88%	
50) Toluene-d8	10.06	98	522478	47.64	ug/l	0.00
Spiked Amount			Recovery	=	95.28%	
62) 4-Bromofluorobenzene	12.38	95	196948	47.77	ug/l	0.00
Spiked Amount			Recovery	=	95.54%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	16465	15.737	ug/l	91
17) Carbon Disulfide	4.01	76	764	0.835	ug/l #	76
18) Methyl Acetate	4.29	43	5185	1.909	ug/l #	61
20) Methylene Chloride	4.51	84	10832	4.609	ug/l #	86
25) 2-Butanone	6.78	43	549	0.370	ug/l #	51
29) Tetrahydrofuran	7.17	42	662	0.665	ug/l #	45
31) Cyclohexane	7.63	56	5174	1.311	ug/l #	6
36) 1,1-Dichloropropene	7.63	75	18305	4.334	ug/l #	48
38) Carbon Tetrachloride	7.63	117	22382	4.726	ug/l #	14
43) Isopropyl Acetate	8.13	43	74564	10.772	ug/l	97
45) 1,2-Dichloropropane	9.23	63	729	0.224	ug/l #	44
48) Methyl methacrylate	9.14	41	4626	1.353	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	7297	1.796	ug/l	99
54) cis-1,3-Dichloropropene	9.87	75	30493	5.872	ug/l #	67
56) Ethyl methacrylate	10.51	69	2585	0.609	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	4699	0.928	ug/l #	43
59) 2-Hexanone	10.74	43	81703	27.076	ug/l #	54
74) N-amyl acetate	12.01	43	3945	2.905	ug/l #	47
76) 1,2,3-Trichloropropane	12.38	75	105381	29.629	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	105381	85.336	ug/l #	6

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064067.D

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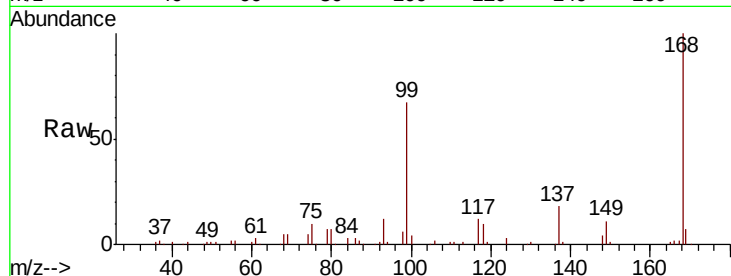
214

Tot Ion:168 Resp: 205726

Ion Ratio Lower Upper

168 100

99 66.9 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

80000

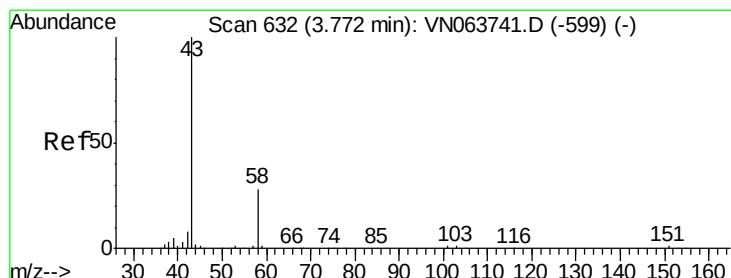
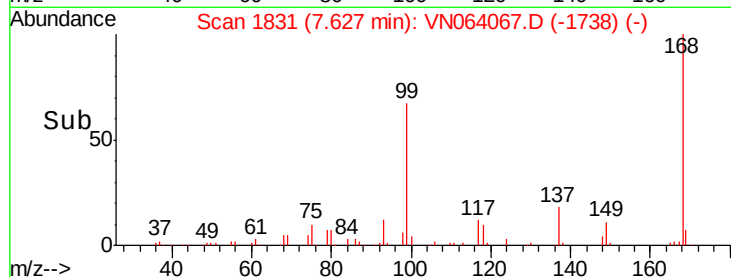
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 15.737 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN064067.D

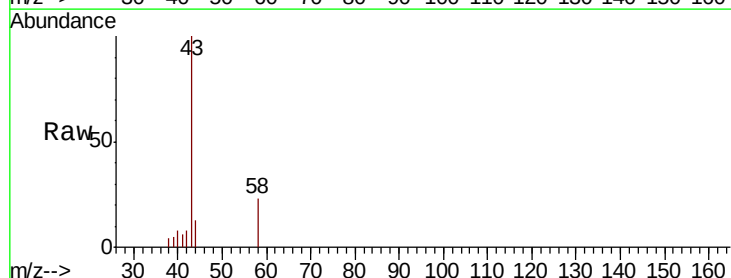
Acq: 10 Oct 2020 4:25

Tgt Ion: 43 Resp: 16465

Ion Ratio Lower Upper

43 100

58 23.0 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.78

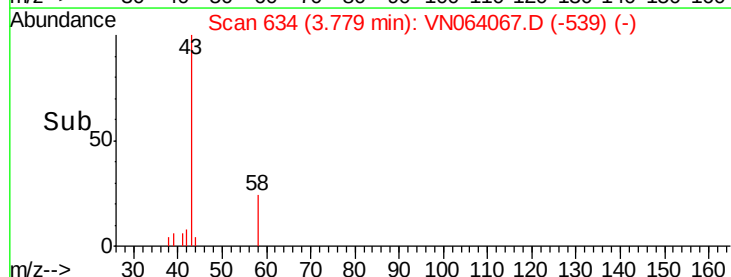
6000

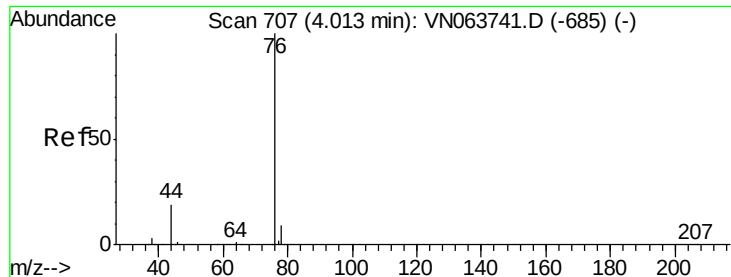
4000

2000

0

Time--> 3.70 3.75 3.80 3.85





#17

Carbon Disulfide

Concen: 0.835 ug/l

RT: 4.01 min Scan# 707

Delta R.T. 0.00 min

Lab File: VN064067.D

Acq: 10 Oct 2020 4:25

Instrument :

MSVOA_N

ClientSampled :

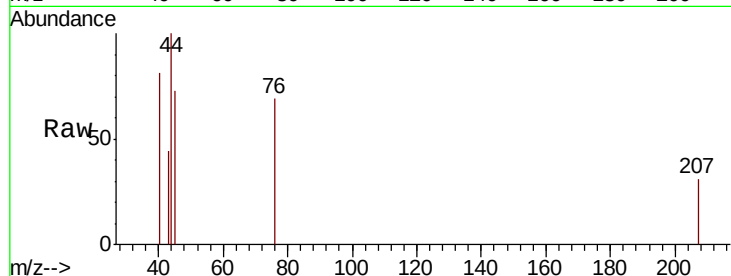
214

Tot Ion: 76 Resp: 764

Ion Ratio Lower Upper

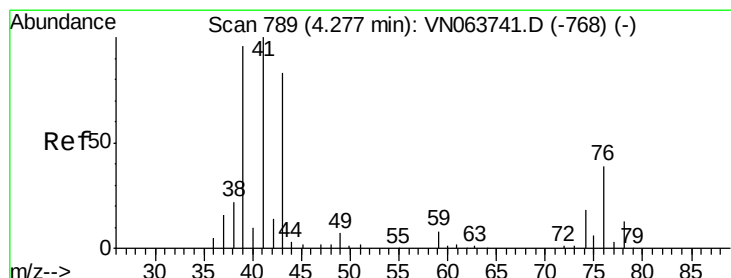
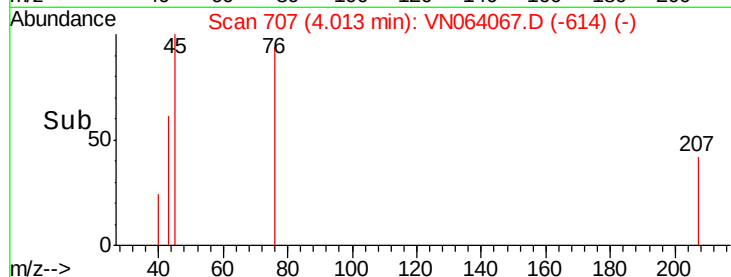
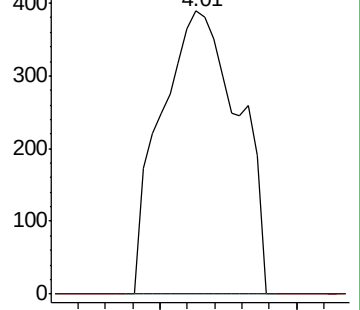
76 100

78 0.0 7.0 10.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 1.909 ug/l

RT: 4.29 min Scan# 794

Delta R.T. 0.02 min

Lab File: VN064067.D

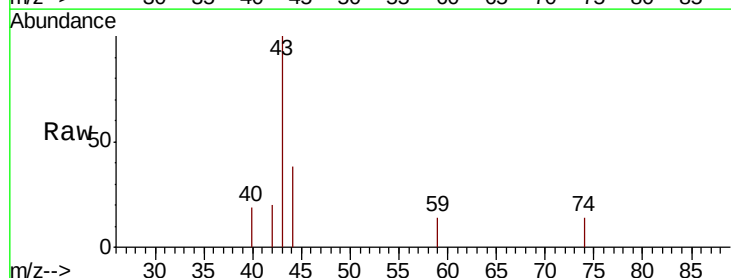
Acq: 10 Oct 2020 4:25

Tgt Ion: 43 Resp: 5185

Ion Ratio Lower Upper

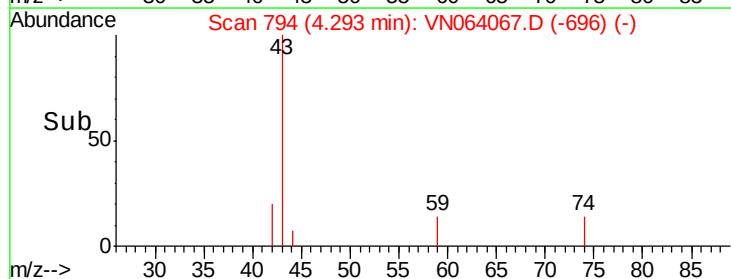
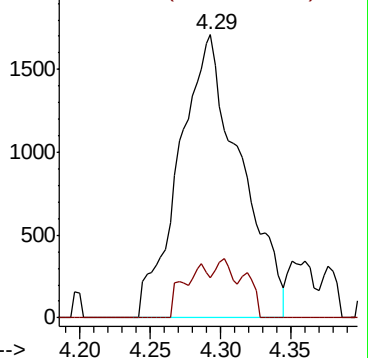
43 100

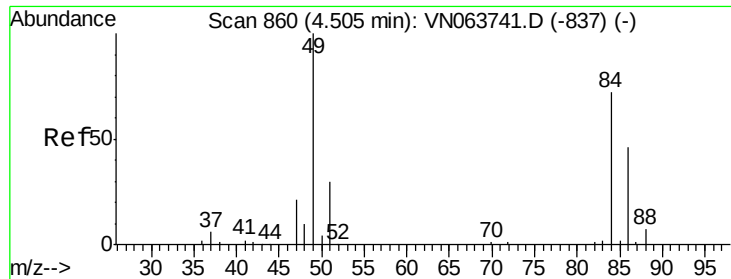
74 3.3 17.4 26.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

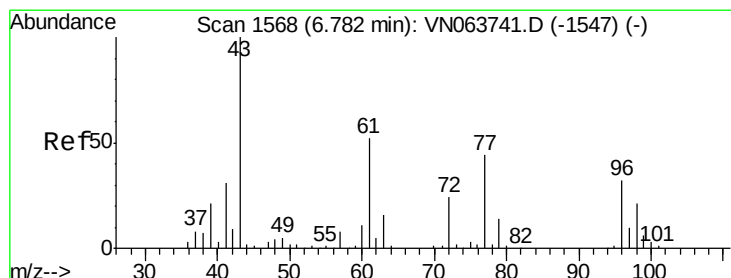
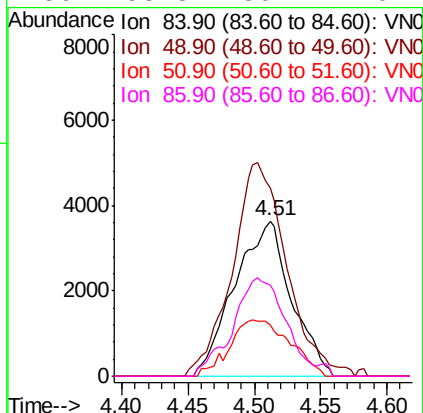
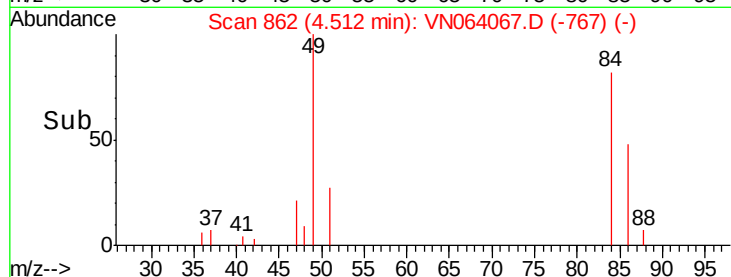
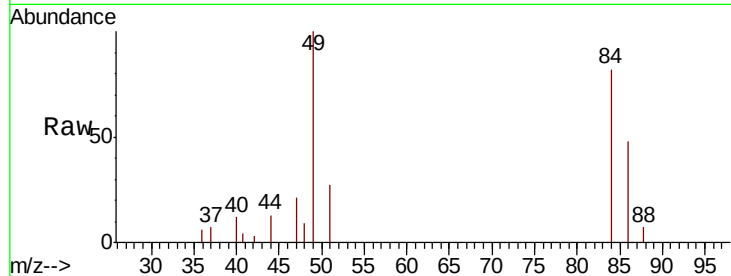




#20
Methvlene Chloride
Concen: 4.609 ug/l
RT: 4.51 min Scan# 862
Delta R.T. 0.01 min
Lab File: VN064067.D
Acq: 10 Oct 2020 4:25

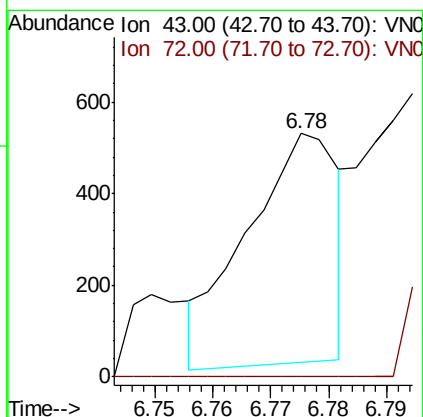
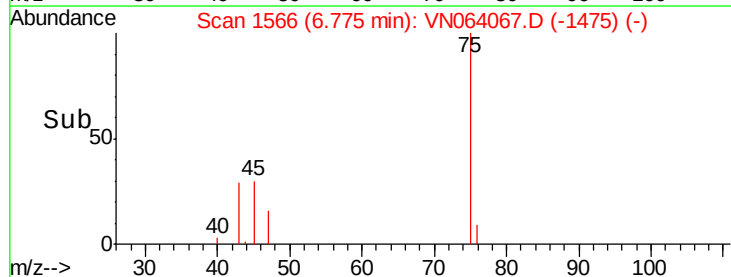
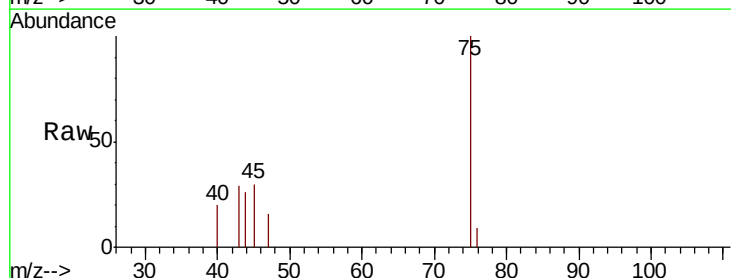
Instrument :
MSVOA_N
ClientSampleId :
214

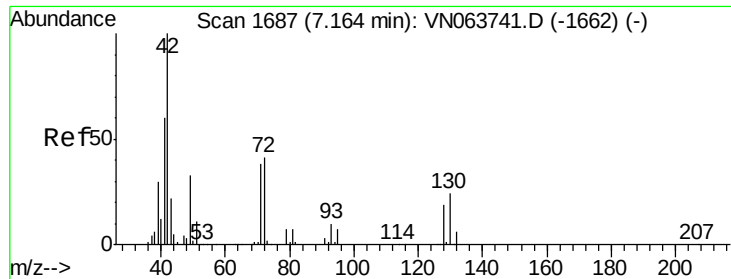
Tot Ion: 84 Resp: 10832
Ion Ratio Lower Upper
84 100
49 116.9 110.4 165.6
51 33.2 33.3 49.9#
86 58.3 50.7 76.1



#25
2-Butanone
Concen: 0.370 ug/l
RT: 6.78 min Scan# 1566
Delta R.T. -0.01 min
Lab File: VN064067.D
Acq: 10 Oct 2020 4:25

Tgt Ion: 43 Resp: 549
Ion Ratio Lower Upper
43 100
72 0.0 19.3 28.9#





#29

Tetrahydrofuran

Concen: 0.665 ug/l

RT: 7.17 min Scan# 1689

Delta R.T. 0.01 min

Lab File: VN064067.D

Acq: 10 Oct 2020 4:25

Instrument :

MSVOA_N

ClientSampleId :

214

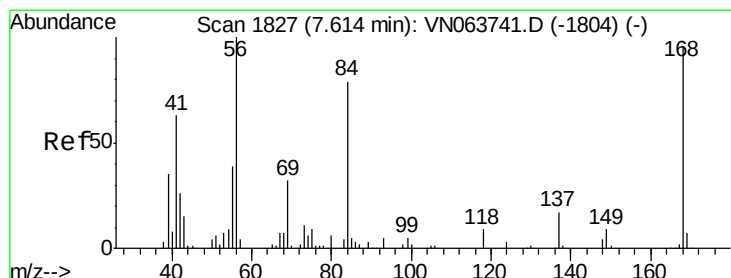
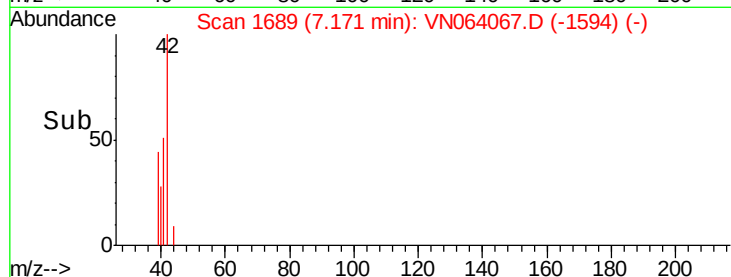
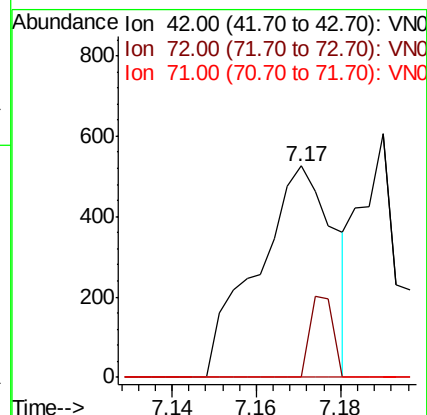
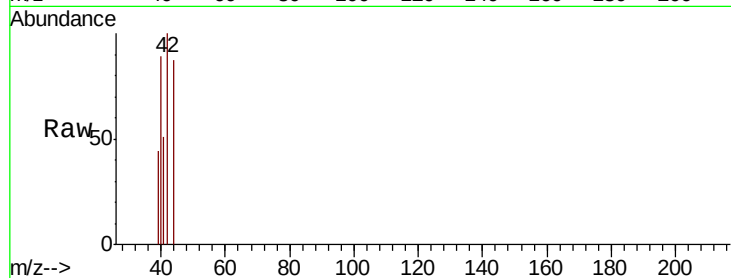
Tot Ion: 42 Resp: 662

Ion Ratio Lower Upper

42 100

72 11.6 32.8 49.2#

71 0.0 30.6 45.8#



#31

Cyclohexane

Concen: 1.311 ug/l

RT: 7.63 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN064067.D

Acq: 10 Oct 2020 4:25

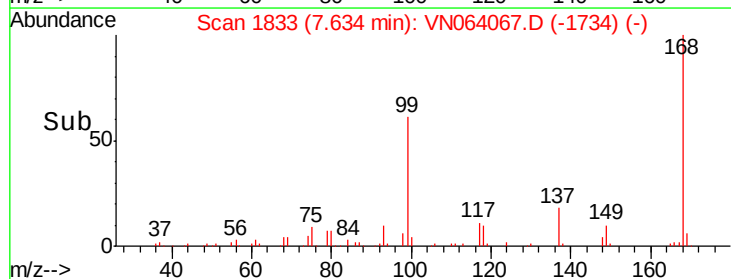
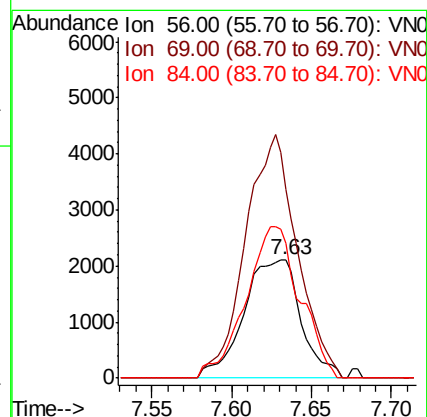
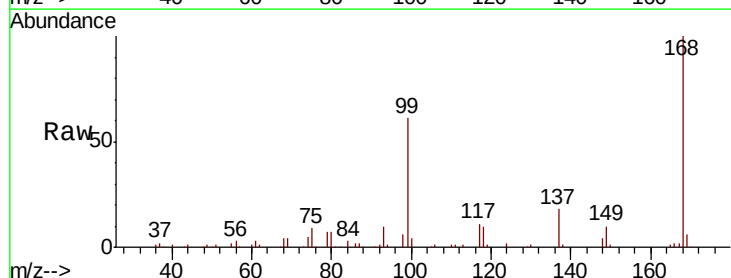
Tgt Ion: 56 Resp: 5174

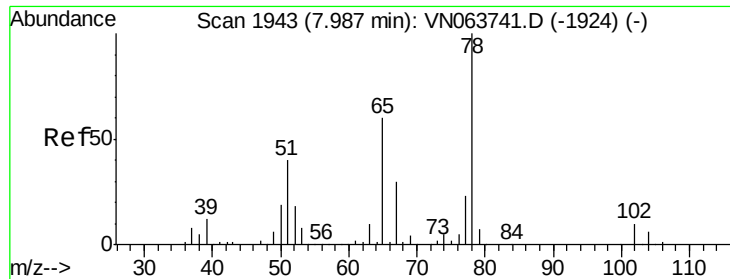
Ion Ratio Lower Upper

56 100

69 159.0 25.4 38.2#

84 113.8 63.3 94.9#

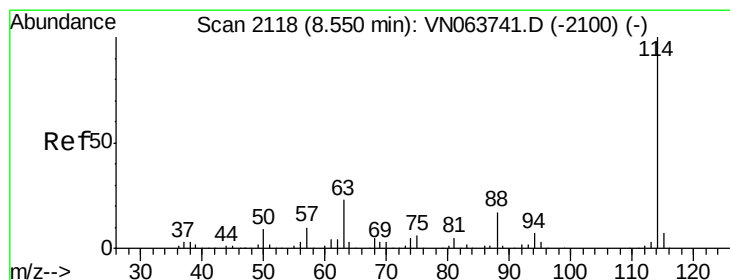
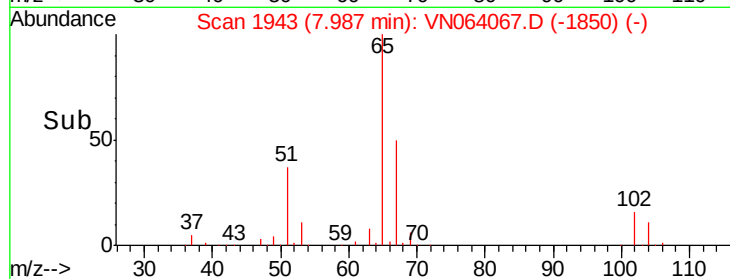
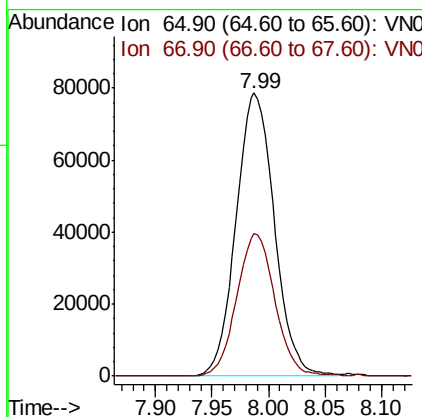
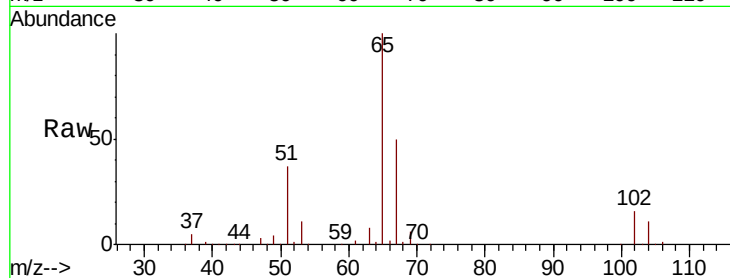




#33
 1,2-Dichloroethane-d4
 Concen: 54.531 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN064067.D
 Acq: 10 Oct 2020 4:25

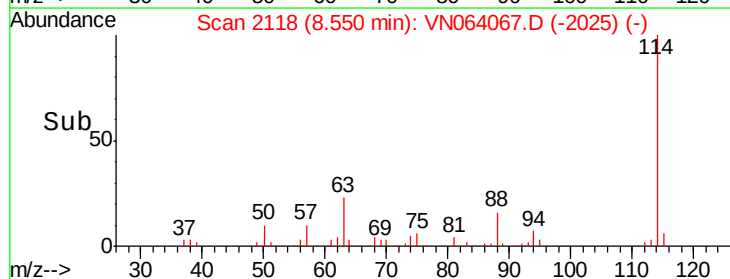
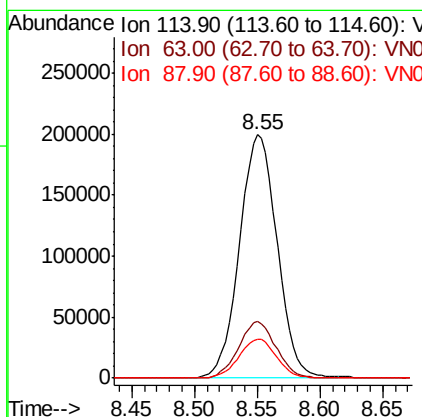
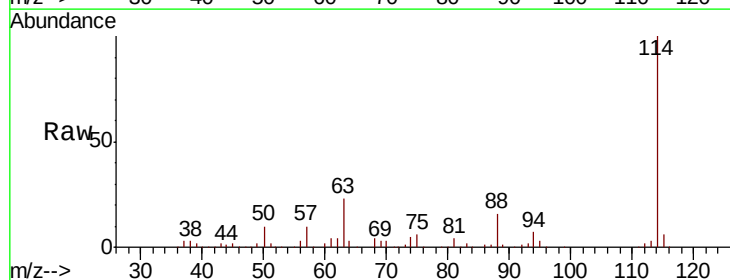
Instrument :
 MSVOA_N
 ClientSampleId :
 214

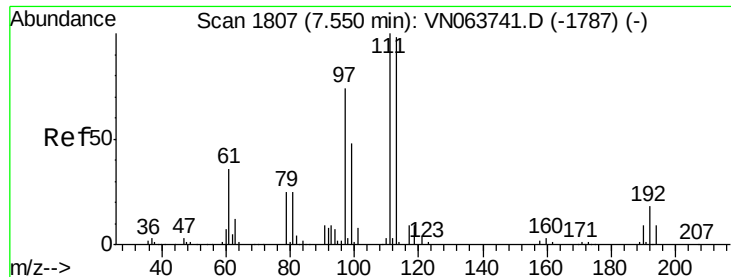
Tot Ion: 65 Resp: 185337
 Ion Ratio Lower Upper
 65 100
 67 50.2 0.0 99.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064067.D
 Acq: 10 Oct 2020 4:25

Tgt Ion: 114 Resp: 416924
 Ion Ratio Lower Upper
 114 100
 63 23.1 0.0 45.0
 88 16.1 0.0 34.0

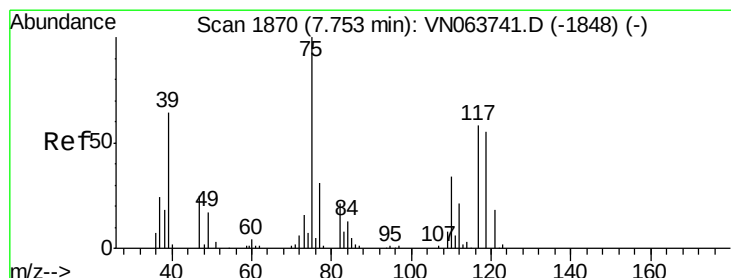
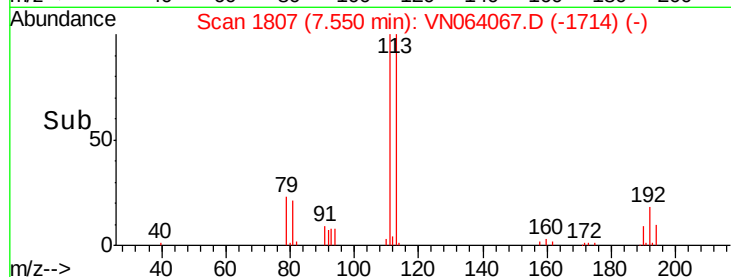
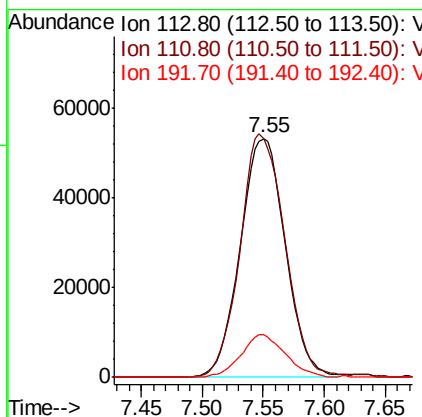
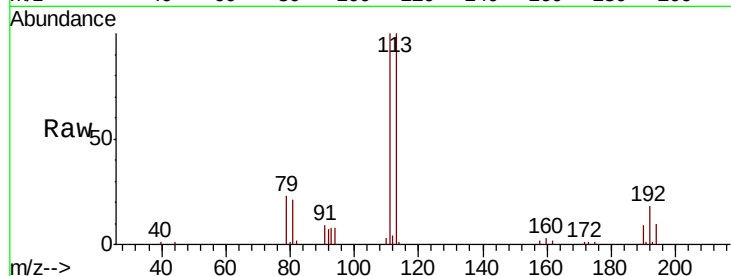




#35
 Dibromofluoromethane
 Concen: 46.938 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064067.D
 Acq: 10 Oct 2020 4:25

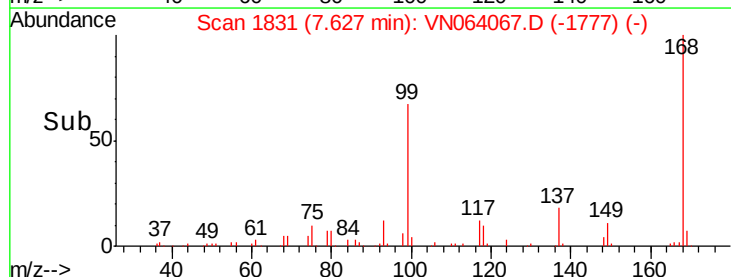
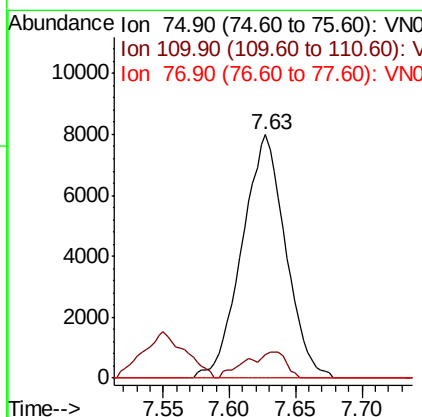
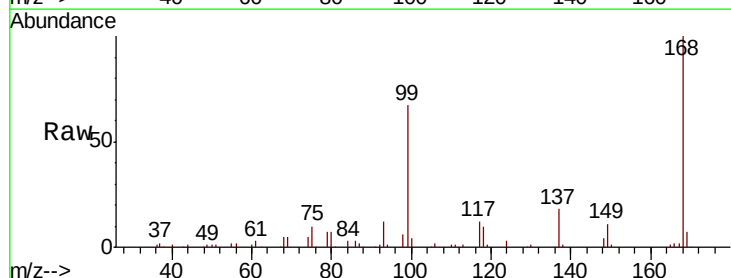
Instrument :
 MSVOA_N
 ClientSampleId :
 214

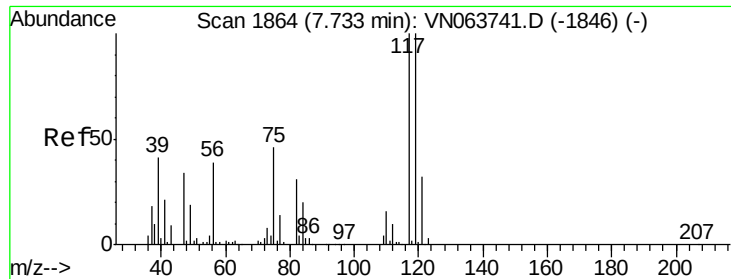
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.5	81.8	122.8
192	17.6	14.2	21.2



#36
 1,1-Dichloropropene
 Concen: 4.334 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064067.D
 Acq: 10 Oct 2020 4:25

Tgt Ion	Ratio	Lower	Upper
75	100		
110	5.9	16.9	50.6#
77	0.0	24.5	36.7#





#38

Carbon Tetrachloride

Concen: 4.726 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN064067.D

Acq: 10 Oct 2020 4:25

Instrument :

MSVOA_N

ClientSampled :

214

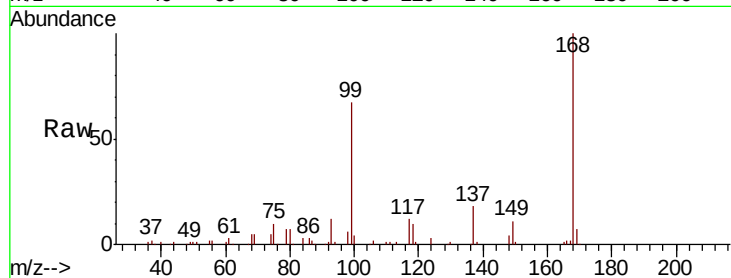
Tot Ion:117 Resp: 22382

Ion Ratio Lower Upper

117 100

119 5.2 80.1 120.1#

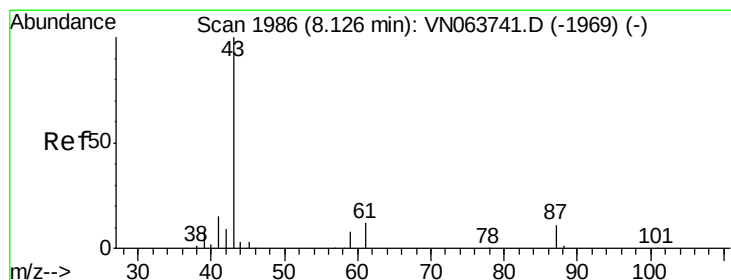
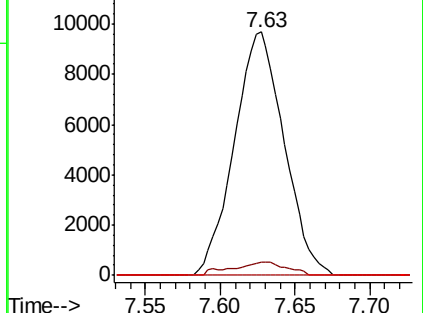
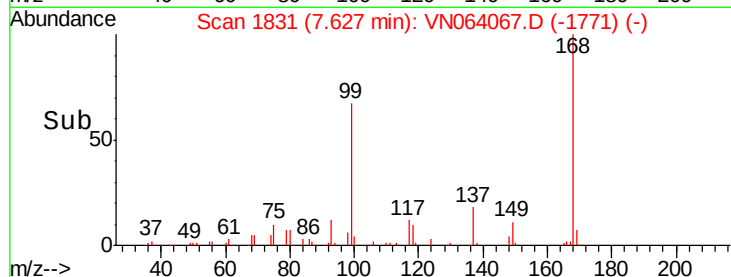
121 0.0 25.7 38.5#



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: 10.772 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN064067.D

Acq: 10 Oct 2020 4:25

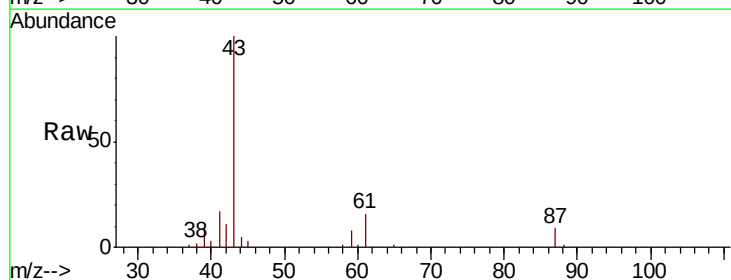
Tgt Ion: 43 Resp: 74564

Ion Ratio Lower Upper

43 100

61 19.5 14.2 21.4

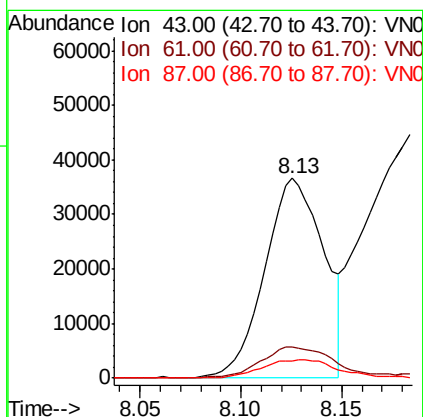
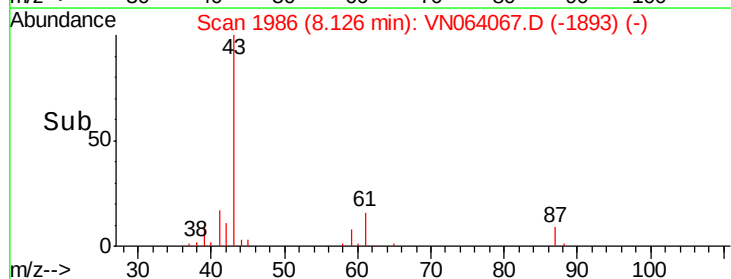
87 11.8 9.0 13.6

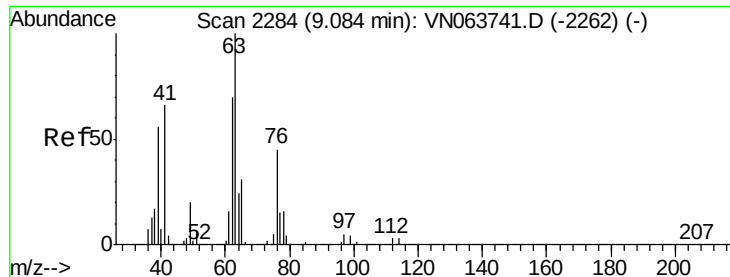


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.224 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN064067.D

Acq: 10 Oct 2020 4:25

Instrument :

MSVOA_N

ClientSampled :

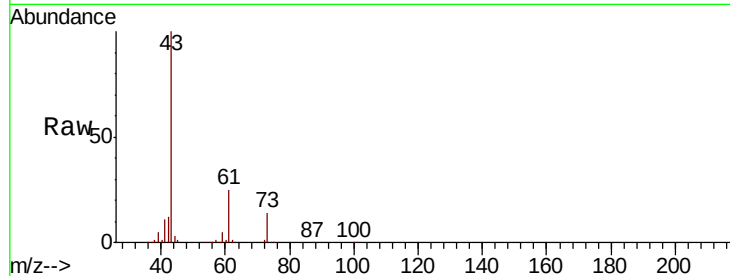
214

Tot Ion: 63 Resp: 729

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

800

600

400

200

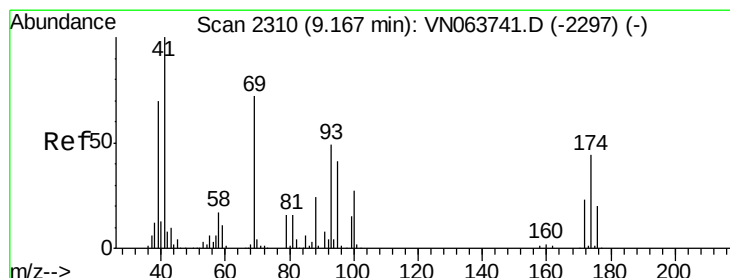
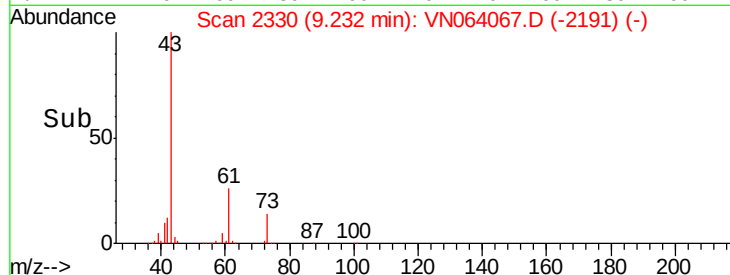
0

9.20

9.22

9.24

Time-->



#48

Methyl methacrylate

Concen: 1.353 ug/l

RT: 9.14 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN064067.D

Acq: 10 Oct 2020 4:25

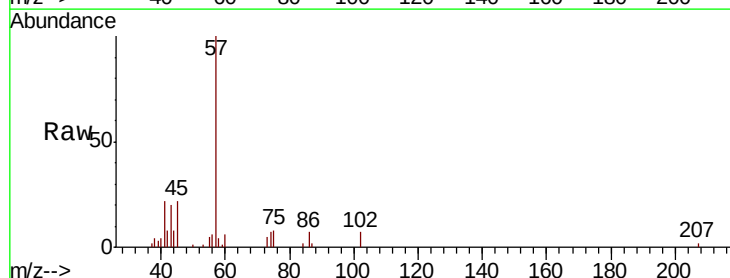
Tgt Ion: 41 Resp: 4626

Ion Ratio Lower Upper

41 100

69 0.0 60.9 91.3#

39 0.0 57.5 86.3#



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

80000

60000

40000

20000

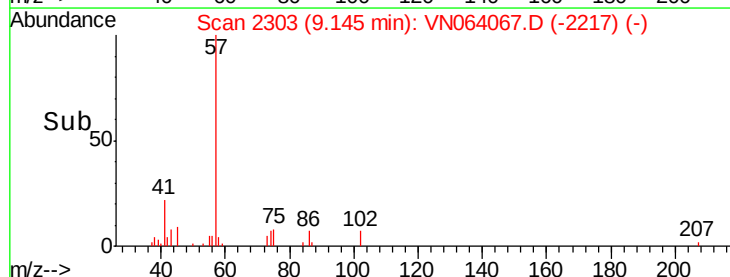
0

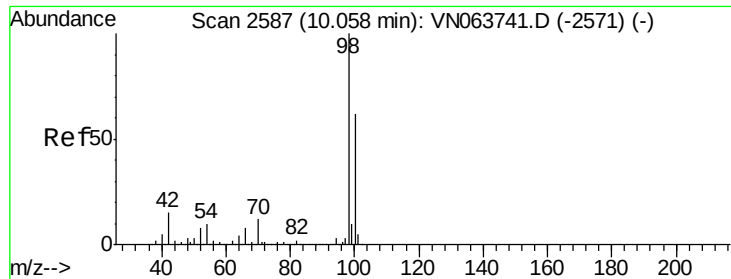
9.10

9.15

9.20

Time-->

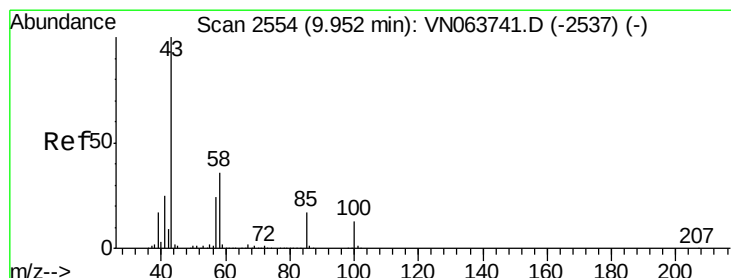
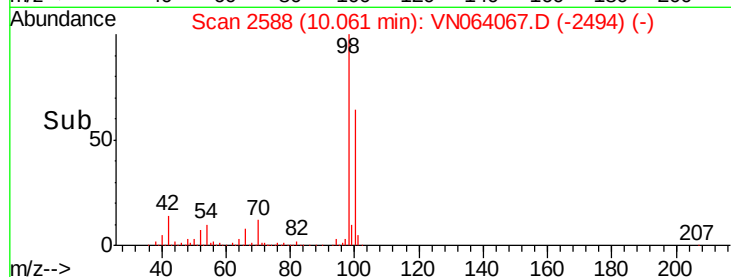
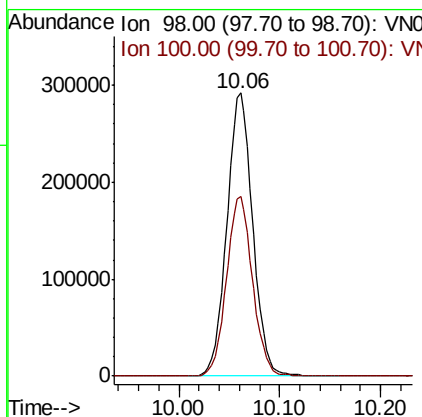
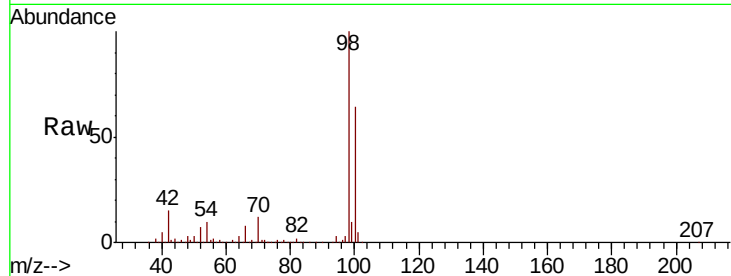




#50
Toluene-d8
Concen: 47.642 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN064067.D
Acq: 10 Oct 2020 4:25

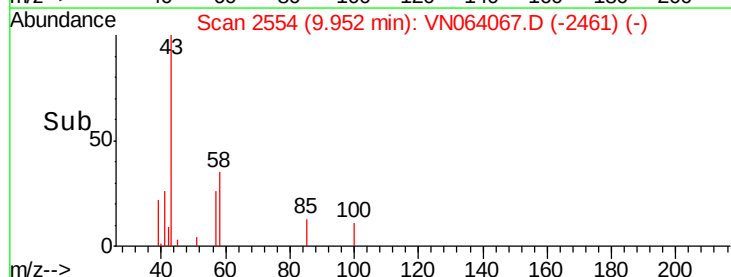
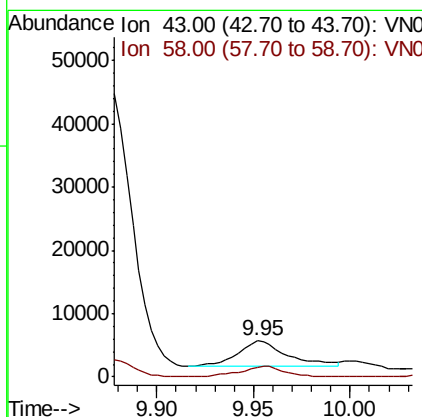
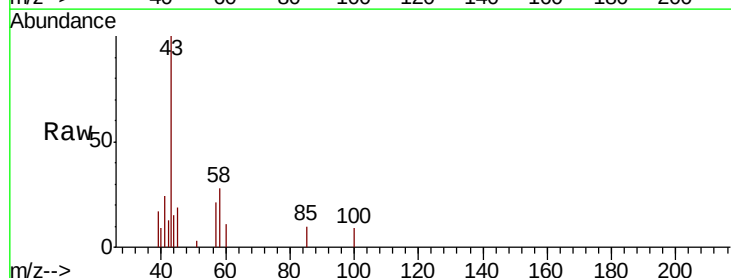
Instrument :
MSVOA_N
ClientSampled :
214

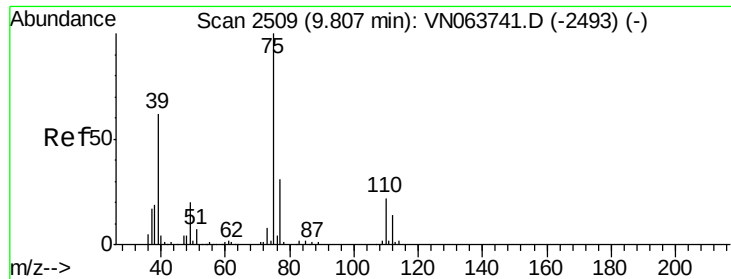
Tot Ion: 98 Resp: 522478
Ion Ratio Lower Upper
98 100
100 64.1 49.8 74.6



#51
4-Methyl-2-Pentanone
Concen: 1.796 ug/l
RT: 9.95 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN064067.D
Acq: 10 Oct 2020 4:25

Tgt Ion: 43 Resp: 7297
Ion Ratio Lower Upper
43 100
58 36.3 28.4 42.6



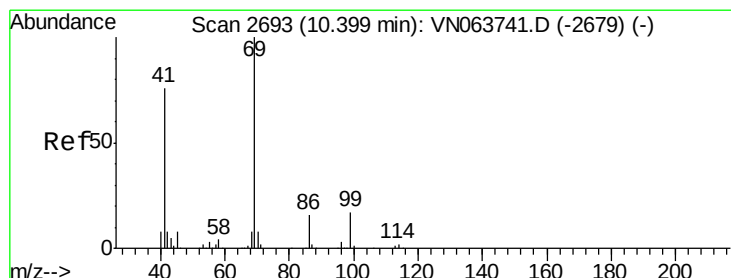
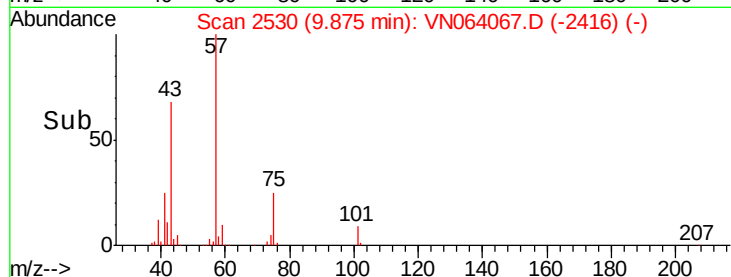
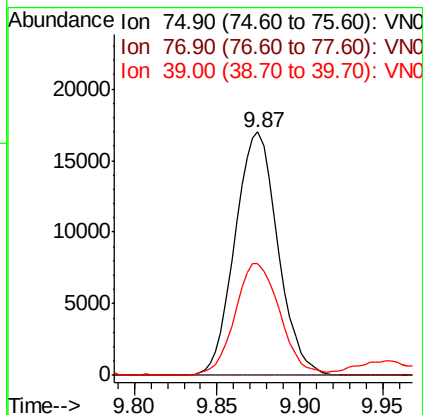
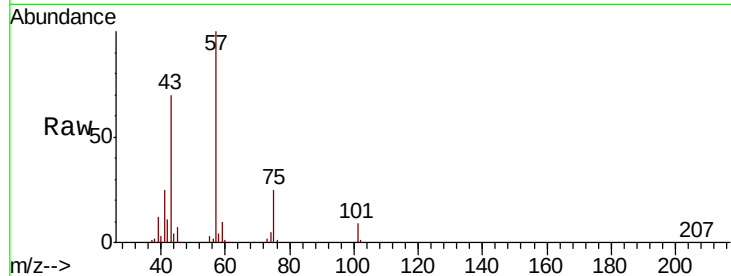


#54

cis-1,3-Dichloropropene
 Concen: 5.872 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN064067.D
 Acq: 10 Oct 2020 4:25

Instrument :
 MSVOA_N
 ClientSampleId :
 214

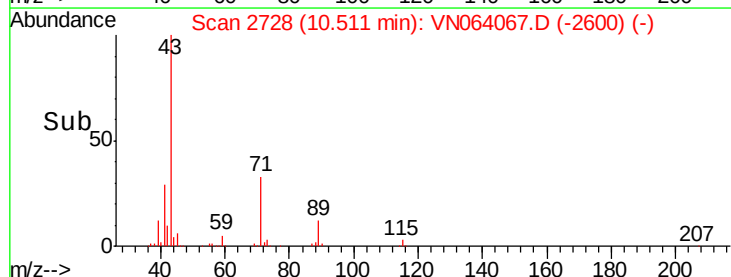
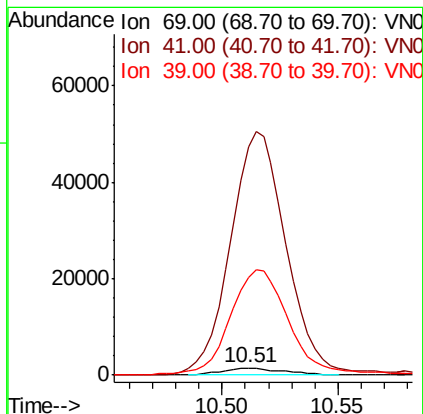
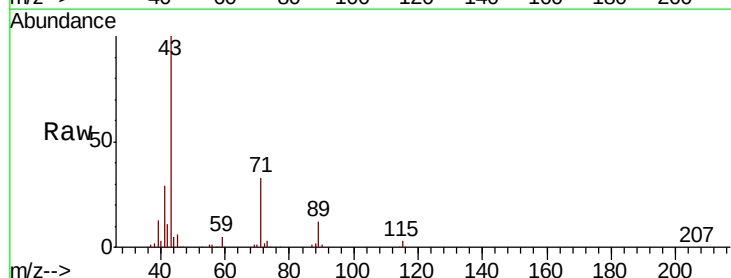
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	24.6	36.8#
39	45.8	49.7	74.5#

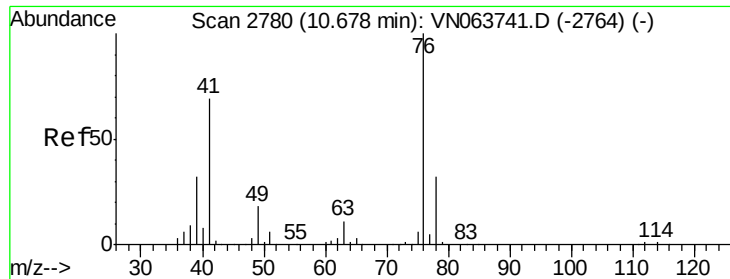


#56

Ethyl methacrylate
 Concen: 0.609 ug/l
 RT: 10.51 min Scan# 2728
 Delta R.T. 0.11 min
 Lab File: VN064067.D
 Acq: 10 Oct 2020 4:25

Tgt Ion	Ratio	Lower	Upper
69	100		
41	3283.8	61.1	91.7#
39	1488.1	42.2	63.4#

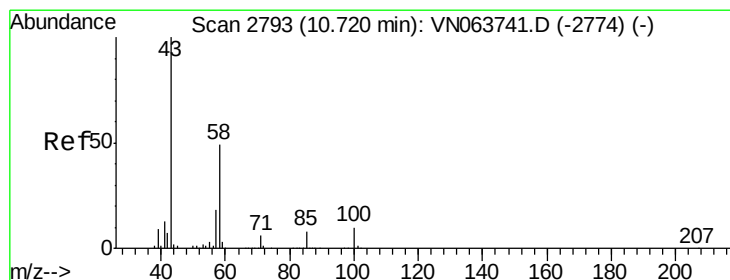
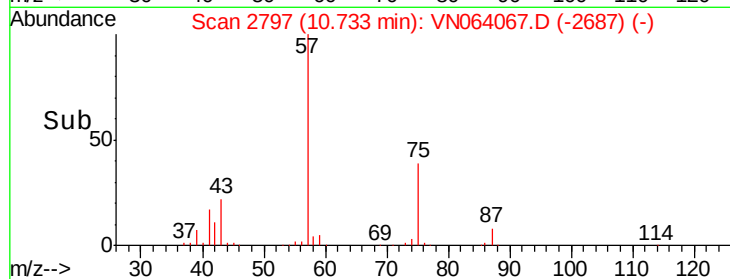
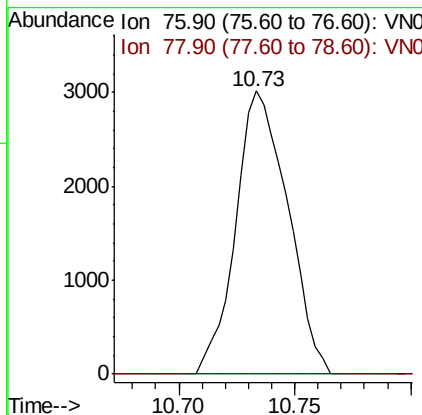
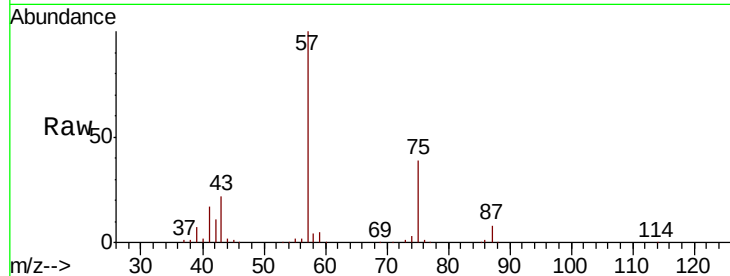




#57
 1,3-Dichloropropane
 Concen: 0.928 ug/l
 RT: 10.73 min Scan# 2797
 Delta R.T. 0.05 min
 Lab File: VN064067.D
 Acq: 10 Oct 2020 4:25

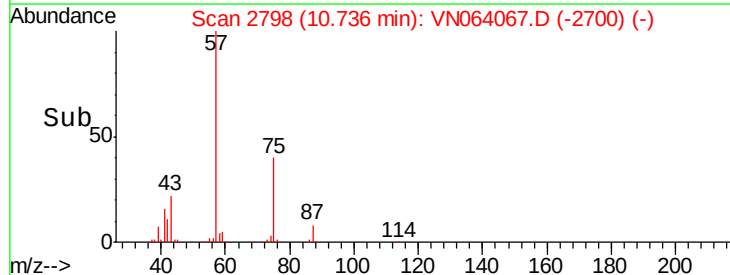
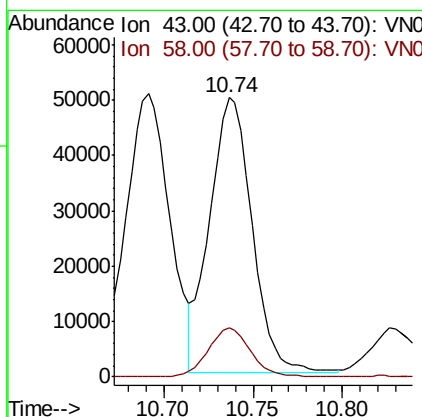
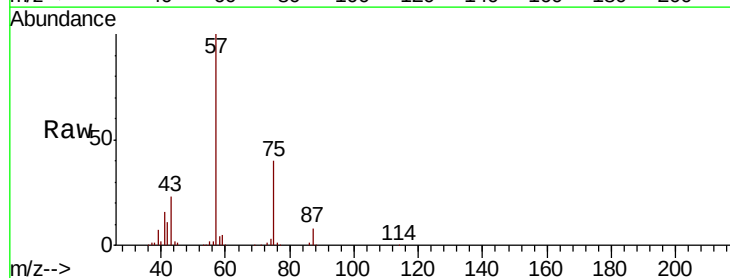
Instrument :
 MSVOA_N
 ClientSampleId :
 214

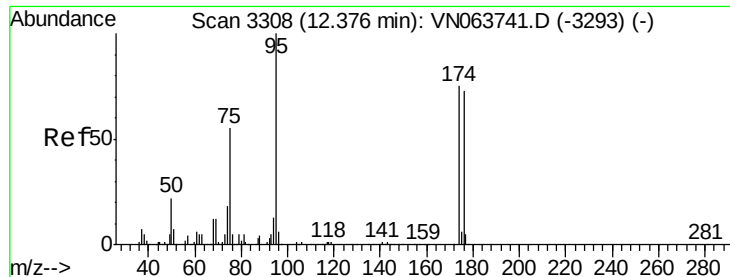
Tot Ion: 76 Resp: 4699
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.2 37.8#



#59
 2-Hexanone
 Concen: 27.076 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.02 min
 Lab File: VN064067.D
 Acq: 10 Oct 2020 4:25

Tgt Ion: 43 Resp: 81703
 Ion Ratio Lower Upper
 43 100
 58 17.9 24.6 73.8#





#62

4-Bromofluorobenzene

Concen: 47.774 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064067.D

Acq: 10 Oct 2020 4:25

Instrument :

MSVOA_N

ClientSampled :

214

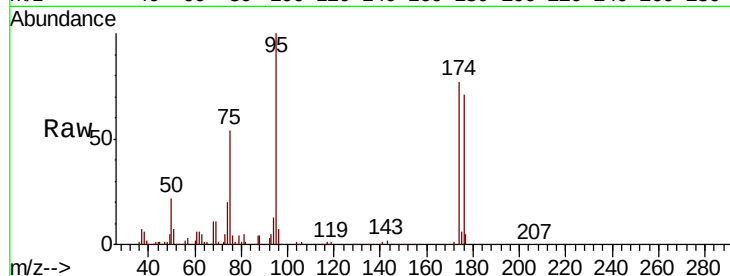
Tot Ion: 95 Resp: 196948

Ion Ratio Lower Upper

95 100

174 77.2 0.0 150.6

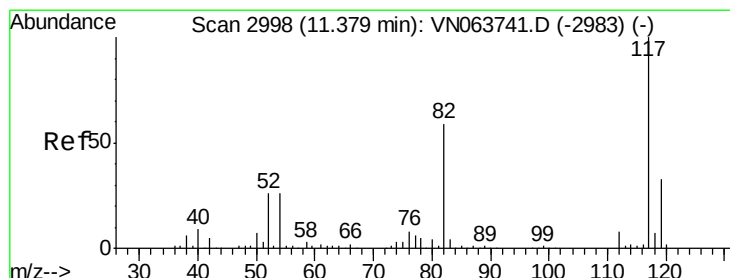
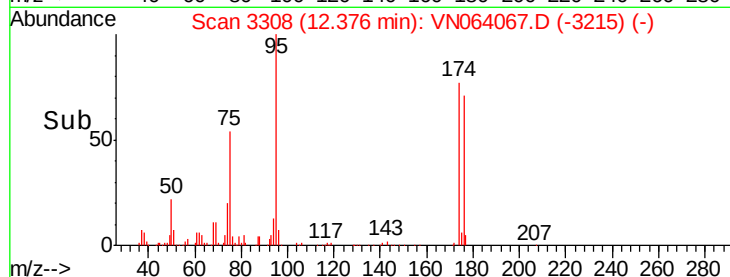
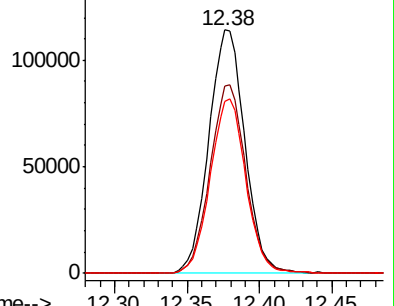
176 71.0 0.0 145.4



Abundance Ion 94.90 (94.60 to 95.60): VN063741.D (-3293) (-)

Ion 173.80 (173.50 to 174.50): VN063741.D (-3293) (-)

Ion 175.80 (175.50 to 176.50): VN063741.D (-3293) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN064067.D

Acq: 10 Oct 2020 4:25

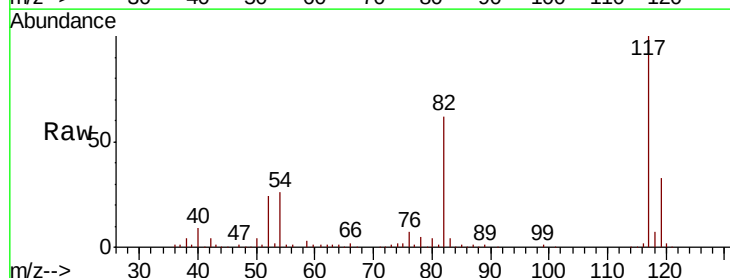
Tgt Ion: 117 Resp: 423504

Ion Ratio Lower Upper

117 100

82 61.9 47.4 71.2

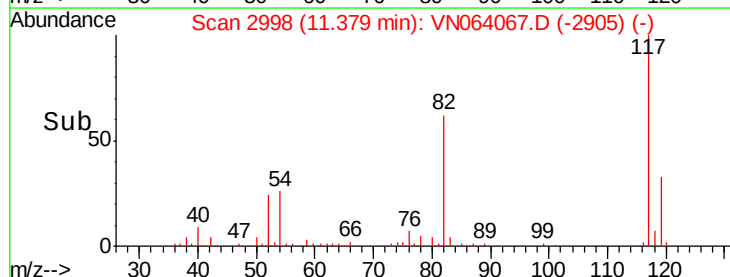
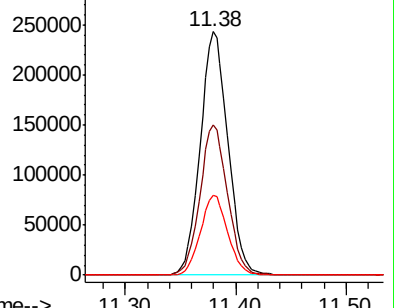
119 32.9 26.4 39.6

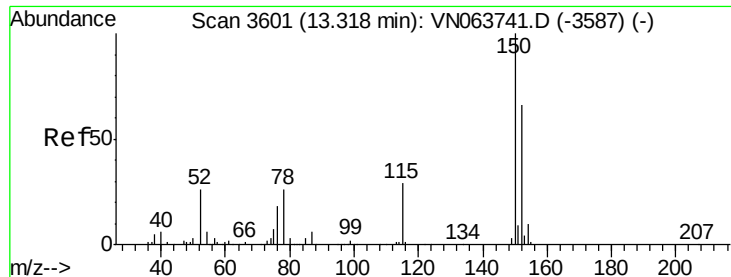


Abundance Ion 116.90 (116.60 to 117.60): VN063741.D (-2983) (-)

Ion 82.00 (81.70 to 82.70): VN063741.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN063741.D (-2983) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064067.D

Acq: 10 Oct 2020 4:25

Instrument :

MSVOA_N

ClientSampled :

214

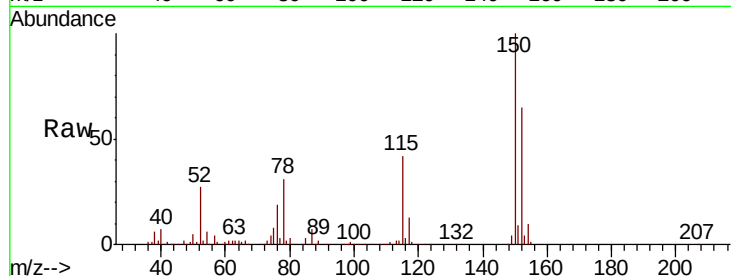
Tot Ion:152 Resp: 161345

Ion Ratio Lower Upper

152 100

115 64.6 31.3 93.8

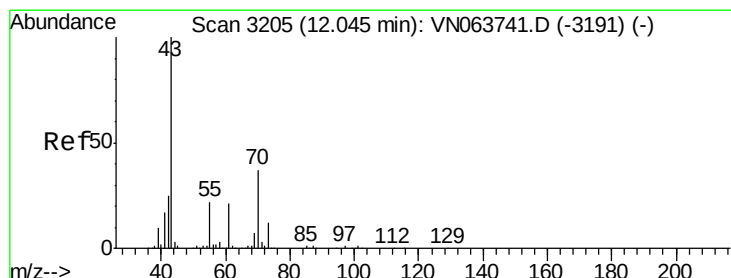
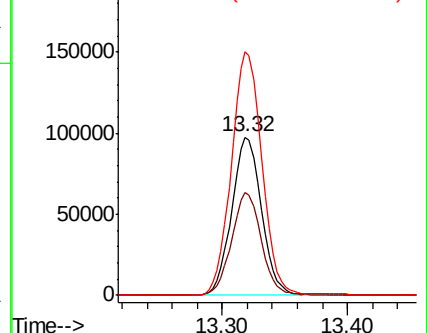
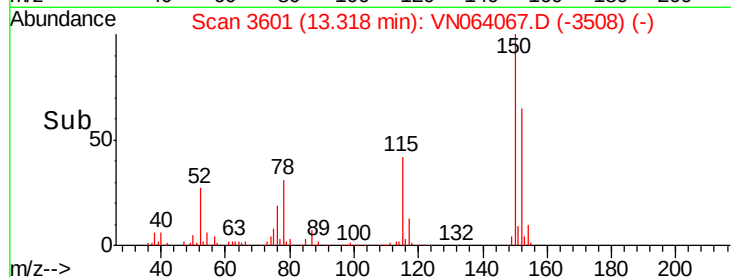
150 157.9 0.0 341.8



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: 2.905 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.03 min

Lab File: VN064067.D

Acq: 10 Oct 2020 4:25

Tgt Ion: 43 Resp: 3945

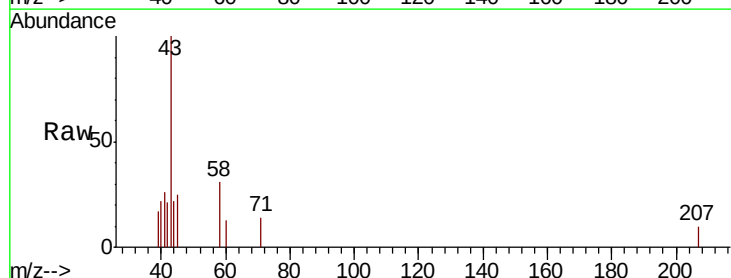
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 1.5 17.9 26.9#

61 0.0 17.0 25.4#

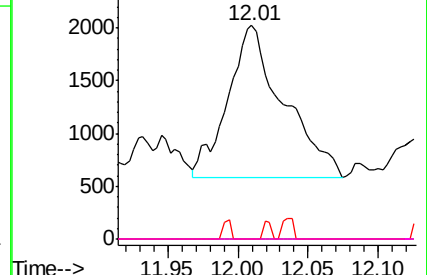
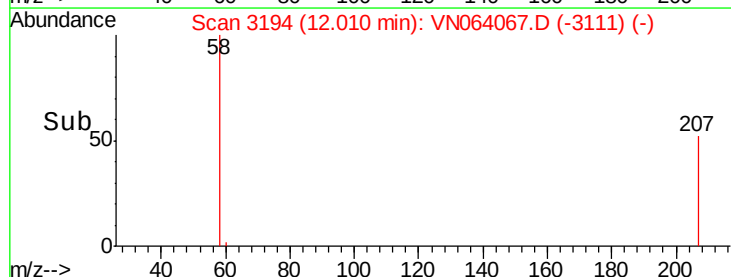


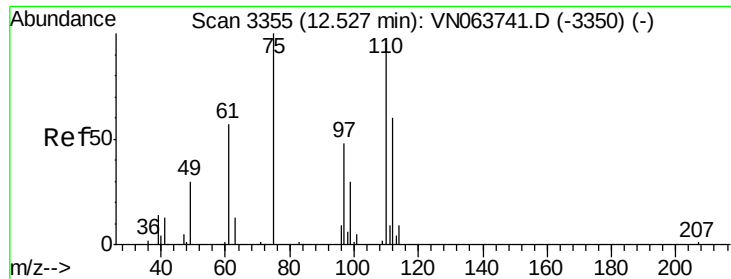
Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 29.629 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064067.D

Acq: 10 Oct 2020 4:25

Instrument :

MSVOA_N

ClientSampleId :

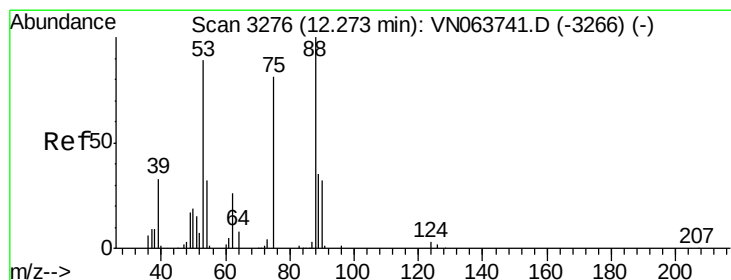
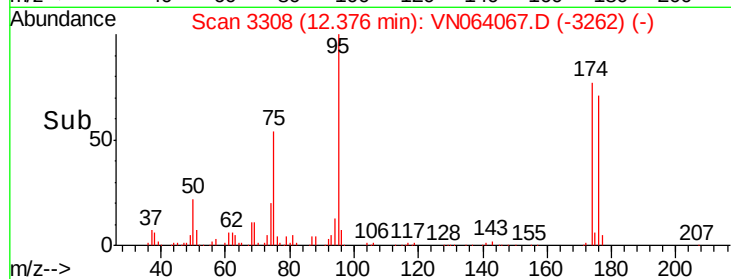
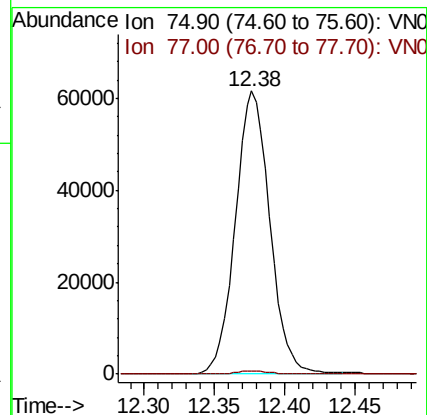
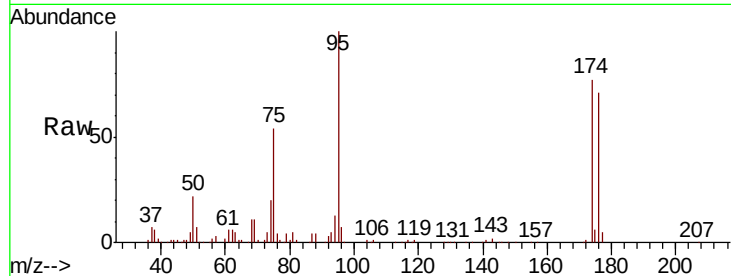
214

Tot Ion: 75 Resp: 105381

Ion Ratio Lower Upper

75 100

77 0.9 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 85.336 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064067.D

Acq: 10 Oct 2020 4:25

Tgt Ion: 75 Resp: 105381

Ion Ratio Lower Upper

75 100

53 0.1 88.2 132.2#

89 0.1 36.0 54.0#

