

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102120\
 Data File : VN064248.D
 Acq On : 22 Oct 2020 5:24
 Operator : JC/MD
 Sample : L4467-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 357

Quant Time: Oct 22 05:54:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102120W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 21 12:48:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	248542	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	438262	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	440249	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	201767	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	201726	54.65	ug/l	0.00
Spiked Amount			Recovery	=	109.30%	
35) Dibromofluoromethane	7.55	113	148341	50.91	ug/l	0.00
Spiked Amount			Recovery	=	101.82%	
50) Toluene-d8	10.06	98	561991	53.17	ug/l	0.00
Spiked Amount			Recovery	=	106.34%	
62) 4-Bromofluorobenzene	12.38	95	244764	57.12	ug/l	0.00
Spiked Amount			Recovery	=	114.24%	

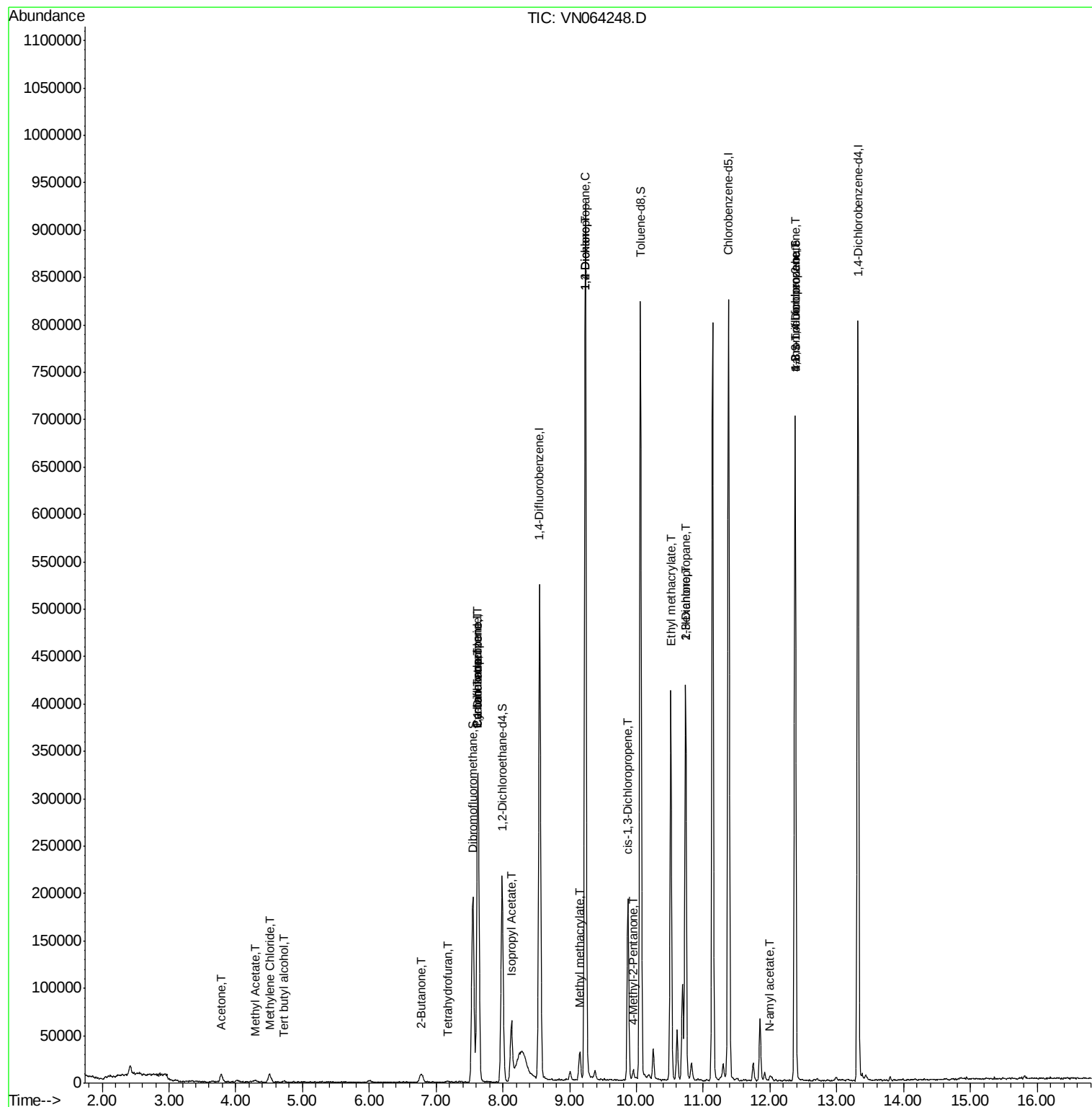
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.71	59	567	1.148	ug/l #	84
16) Acetone	3.78	43	15265	14.454	ug/l #	88
18) Methyl Acetate	4.28	43	3073	1.142	ug/l	97
20) Methylene Chloride	4.51	84	6304	2.239	ug/l	88
25) 2-Butanone	6.79	43	5469	3.259	ug/l	90
29) Tetrahydrofuran	7.16	42	1132	1.128	ug/l #	60
31) Cyclohexane	7.63	56	5849	1.337	ug/l #	22
36) 1,1-Dichloropropene	7.62	75	21833	4.997	ug/l #	51
38) Carbon Tetrachloride	7.63	117	28124	5.657	ug/l #	15
43) Isopropyl Acetate	8.13	43	87508	11.836	ug/l #	86
45) 1,2-Dichloropropane	9.23	63	960	0.298	ug/l #	45
48) Methyl methacrylate	9.14	41	4855	1.257	ug/l #	17
49) 1,4-Dioxane	9.23	88	91	2.014	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	8855	2.241	ug/l	96
54) cis-1,3-Dichloropropene	9.87	75	32499	5.817	ug/l #	59
56) Ethyl methacrylate	10.51	69	921	0.204	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	4104	0.811	ug/l #	42
59) 2-Hexanone	10.74	43	70534	24.443	ug/l #	53
74) N-amyl acetate	12.01	43	3994	0.601	ug/l #	53
76) 1,2,3-Trichloropropane	12.37	75	132826	31.227	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	132826	78.839	ug/l #	9

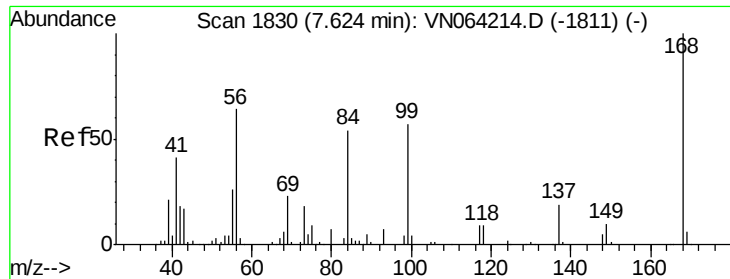
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Oct 21 12:48:40 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064248.D

Acq: 22 Oct 2020 5:24

Instrument :

MSVOA_N

ClientSampled :

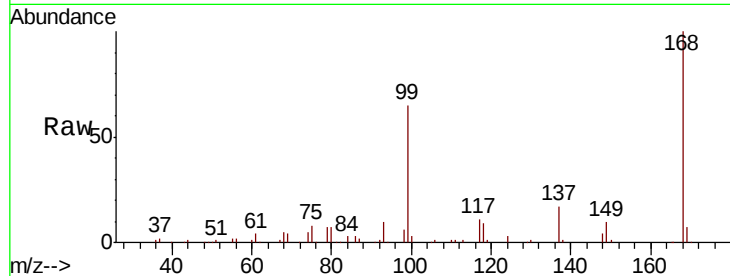
357

Tot Ion:168 Resp: 248542

Ion Ratio Lower Upper

168 100

99 64.8 54.0 81.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

120000

100000

80000

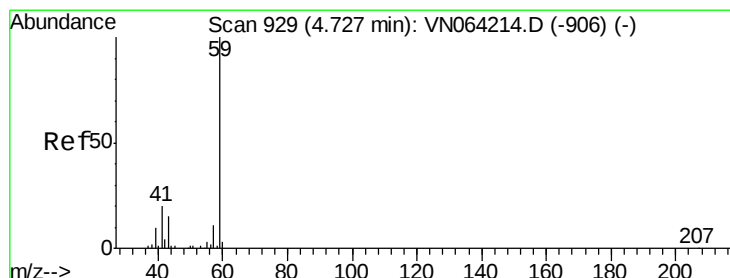
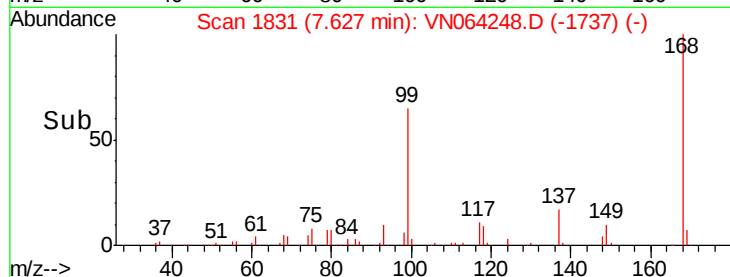
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 1.148 ug/l

RT: 4.71 min Scan# 924

Delta R.T. -0.02 min

Lab File: VN064248.D

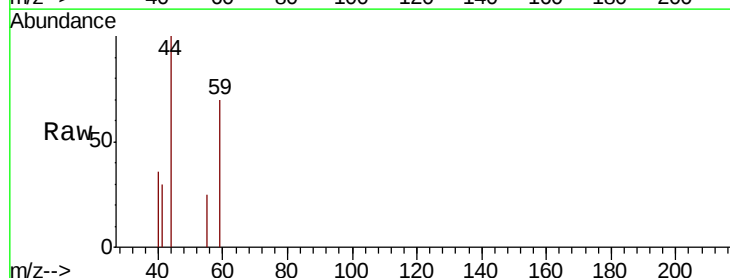
Acq: 22 Oct 2020 5:24

Tgt Ion: 59 Resp: 567

Ion Ratio Lower Upper

59 100

57 5.3 9.2 13.8#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.71

500

400

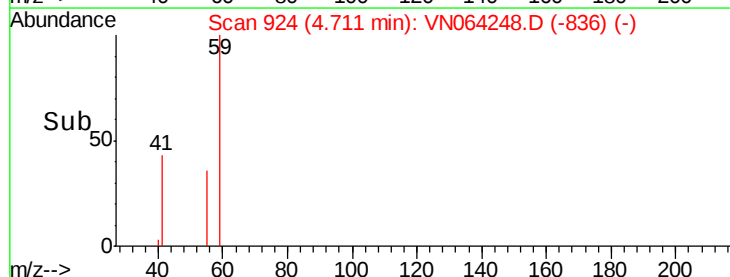
300

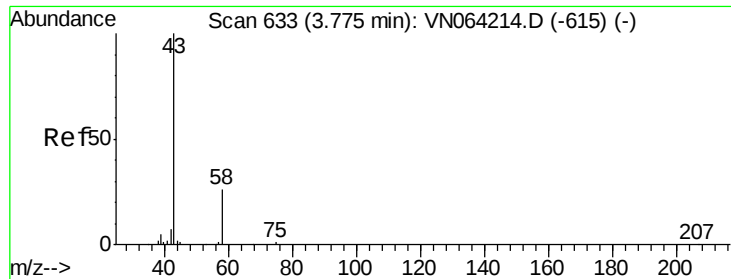
200

100

0

Time--> 4.68 4.70 4.72





#16

Acetone

Concen: 14.454 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN064248.D

Acq: 22 Oct 2020 5:24

Instrument :

MSVOA_N

ClientSampled :

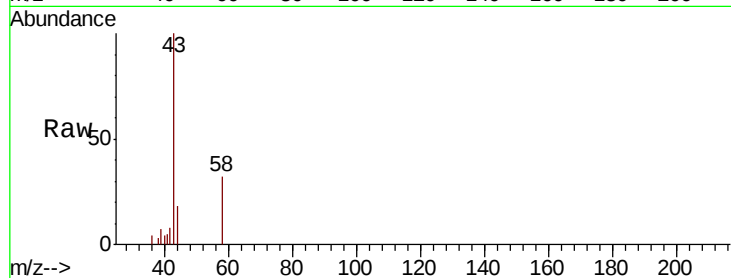
357

Tot Ion: 43 Resp: 15265

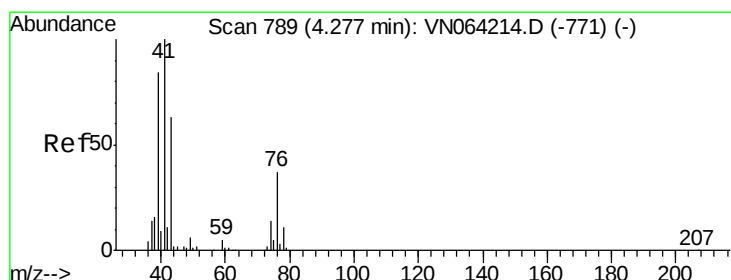
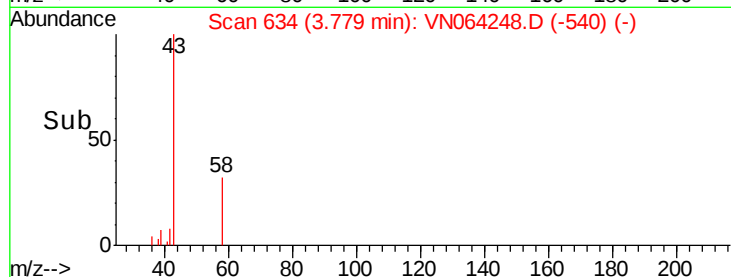
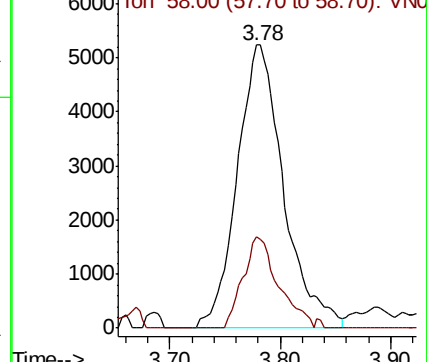
Ion Ratio Lower Upper

43 100

58 32.4 21.0 31.4#



Abundance Ion 43.00 (42.70 to 43.70): VN064214.D (-615) (-)



#18

Methyl Acetate

Concen: 1.142 ug/l

RT: 4.28 min Scan# 791

Delta R.T. 0.01 min

Lab File: VN064248.D

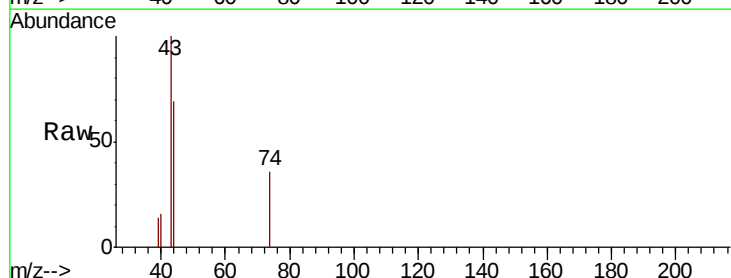
Acq: 22 Oct 2020 5:24

Tgt Ion: 43 Resp: 3073

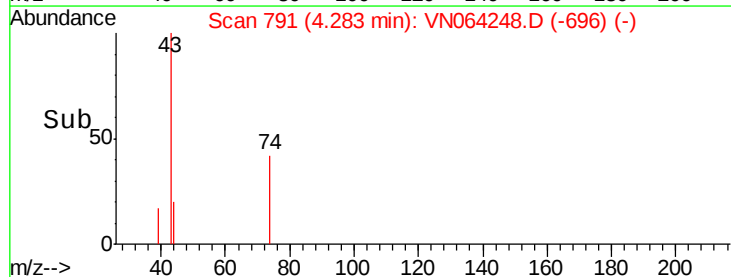
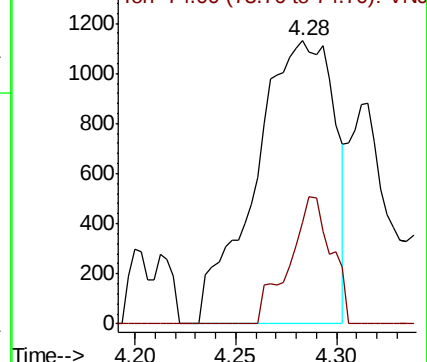
Ion Ratio Lower Upper

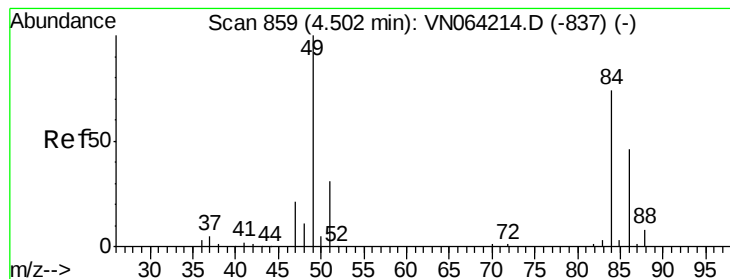
43 100

74 23.6 17.9 26.9



Abundance Ion 43.00 (42.70 to 43.70): VN064214.D (-771) (-)





#20

Methylene Chloride

Concen: 2.239 ug/l

RT: 4.51 min Scan# 863

Delta R.T. 0.01 min

Lab File: VN064248.D

Acq: 22 Oct 2020 5:24

Instrument :
MSVOA_N
ClientSampled :
357

Tot Ion: 84 Resp: 6304

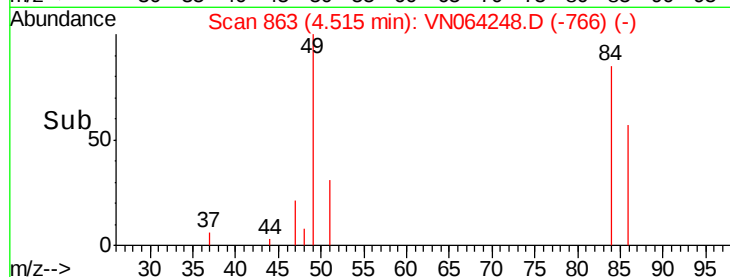
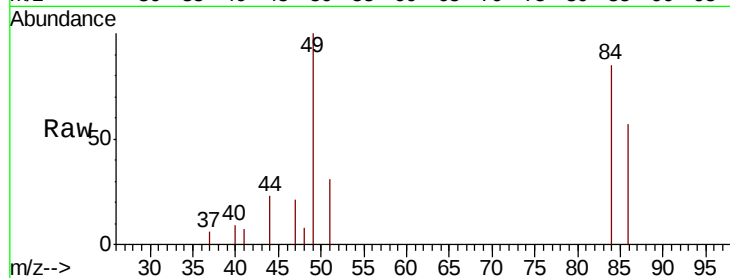
Ion Ratio Lower Upper

84 100

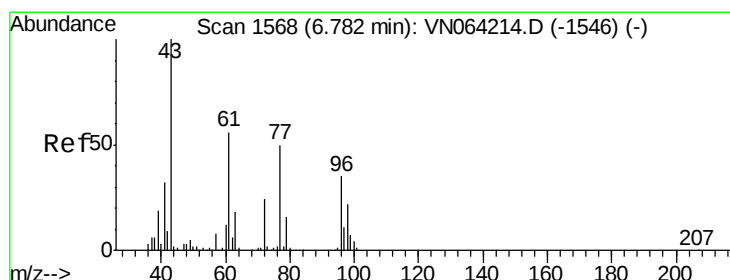
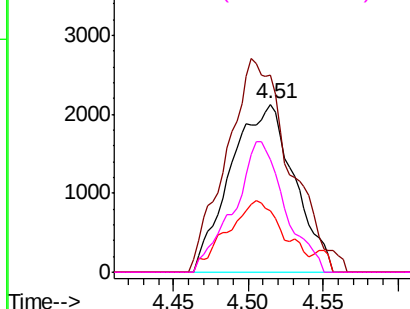
49 117.7 108.5 162.7

51 36.3 33.8 50.8

86 67.4 50.5 75.7



Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 3.259 ug/l

RT: 6.79 min Scan# 1571

Delta R.T. 0.01 min

Lab File: VN064248.D

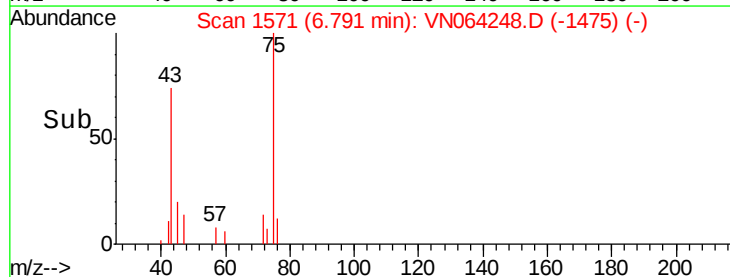
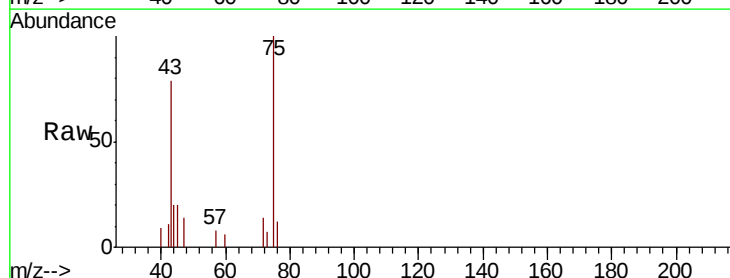
Acq: 22 Oct 2020 5:24

Tgt Ion: 43 Resp: 5469

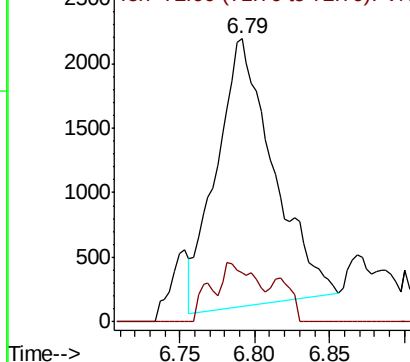
Ion Ratio Lower Upper

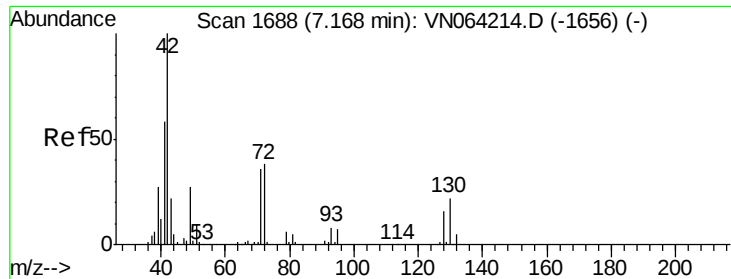
43 100

72 19.4 19.4 29.0



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0

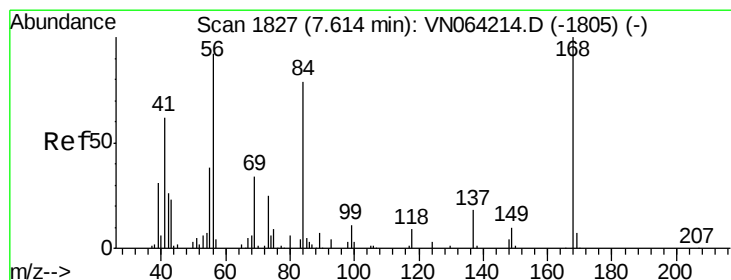
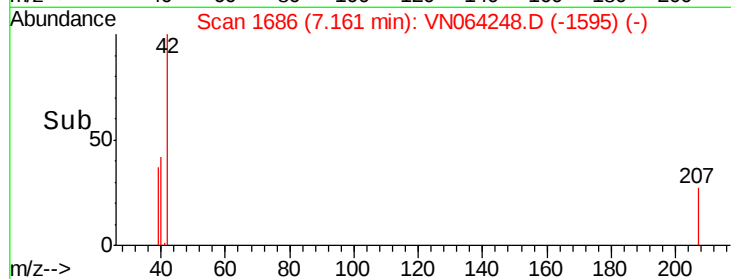
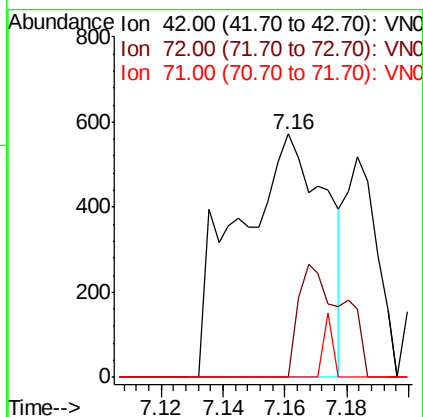
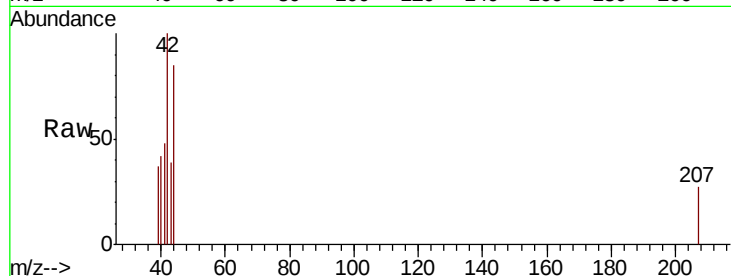




#29
Tetrahydrofuran
Concen: 1.128 ug/l
RT: 7.16 min Scan# 1686
Delta R.T. -0.01 min
Lab File: VN064248.D
Acq: 22 Oct 2020 5:24

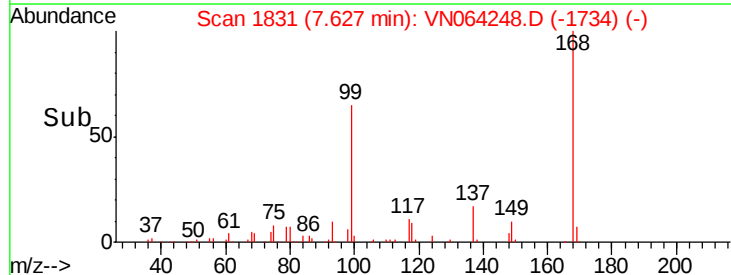
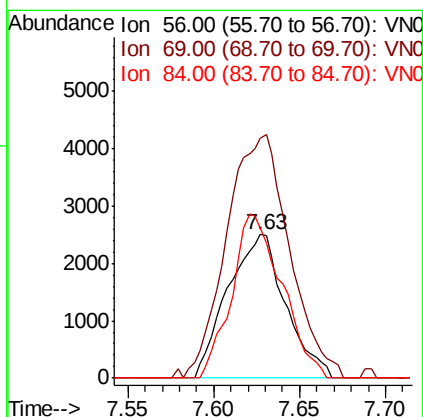
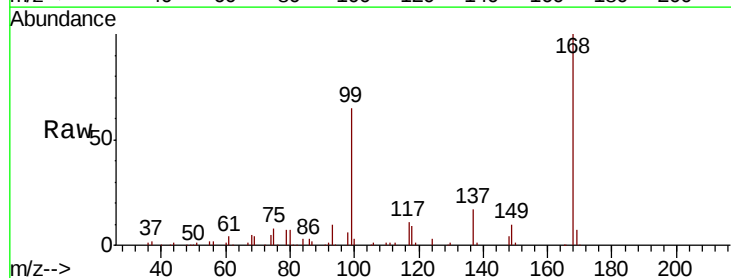
Instrument :
MSVOA_N
ClientSampleId :
357

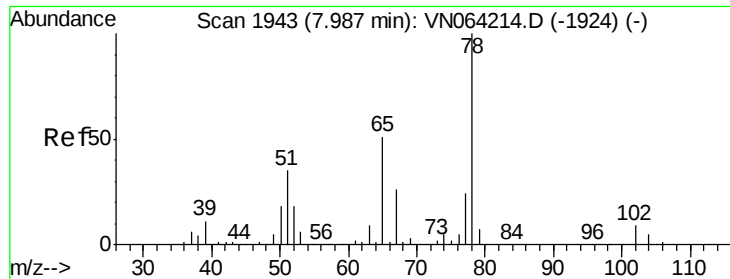
Tot Ion	Ratio	Lower	Upper
42	100		
72	23.6	30.8	46.2#
71	2.6	29.0	43.6#



#31
Cyclohexane
Concen: 1.337 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN064248.D
Acq: 22 Oct 2020 5:24

Tgt Ion	Ratio	Lower	Upper
56	100		
69	161.2	29.8	44.6#
84	104.6	68.1	102.1#

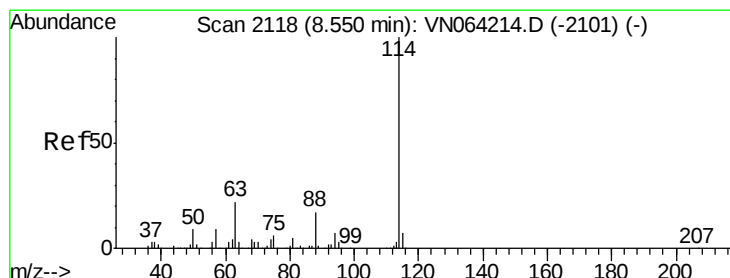
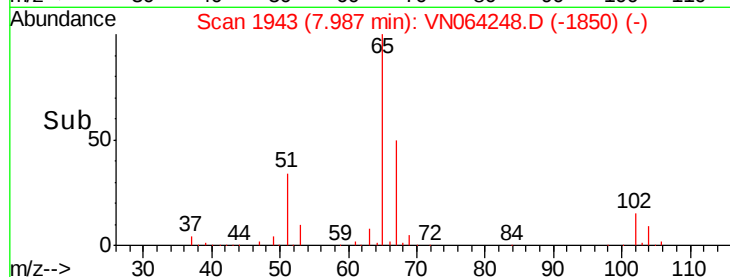
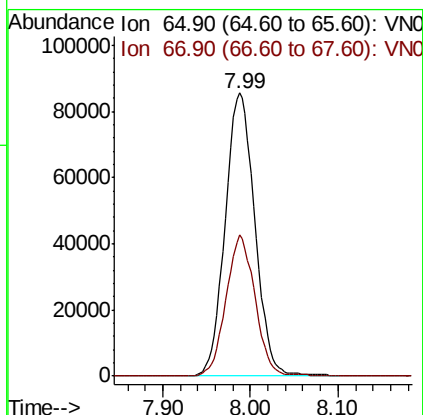
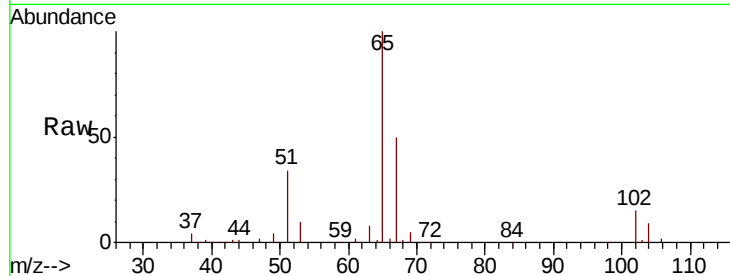




#33
 1,2-Dichloroethane-d4
 Concen: 54.653 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN064248.D
 Acq: 22 Oct 2020 5:24

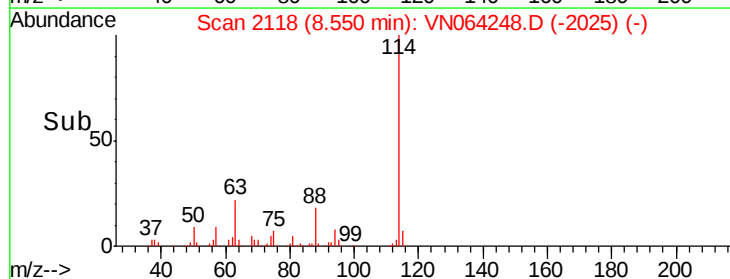
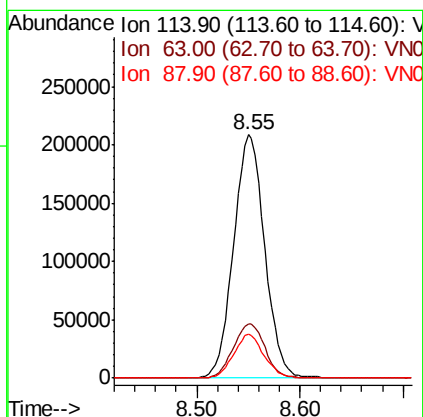
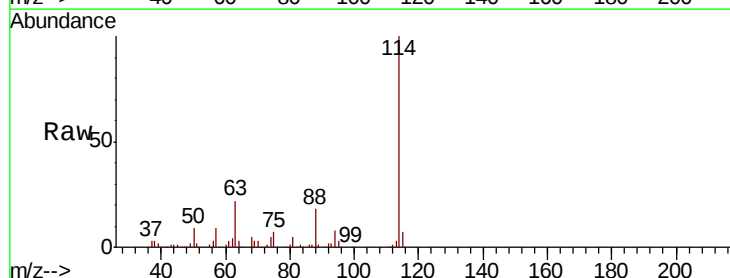
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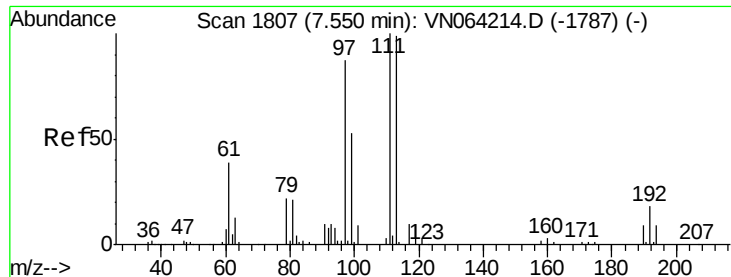
Tot Ion: 65 Resp: 201726
 Ion Ratio Lower Upper
 65 100
 67 48.5 0.0 100.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN064248.D
 Acq: 22 Oct 2020 5:24

Tgt Ion: 114 Resp: 438262
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 44.0
 88 18.1 0.0 34.2





#35

Dibromofluoromethane

Concen: 50.910 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. -0.00 min

Lab File: VN064248.D

Acq: 22 Oct 2020 5:24

Instrument :
MSVOA_N
ClientSampleId :
357

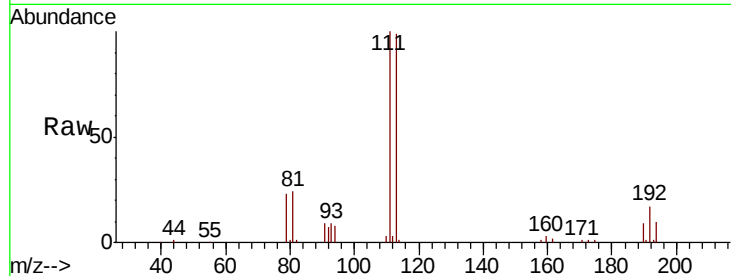
Tot Ion:113 Resp: 148341

Ion Ratio Lower Upper

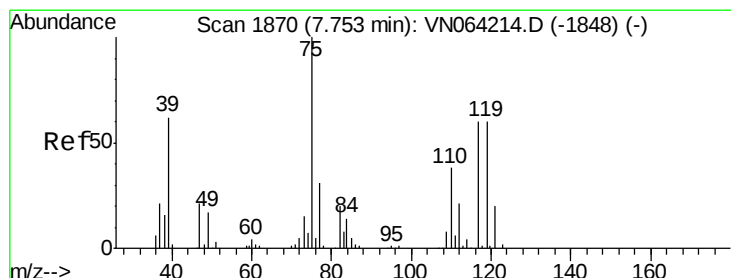
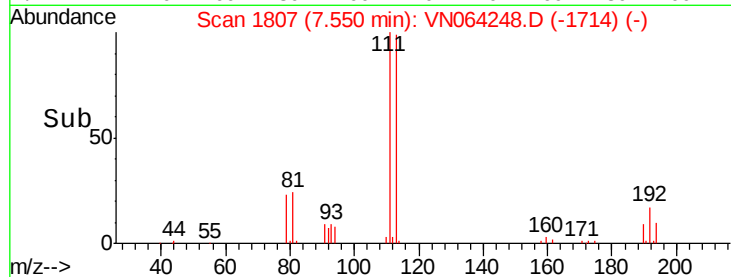
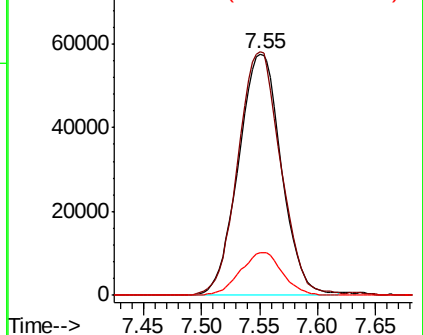
113 100

111 100.7 84.2 126.2

192 17.4 15.2 22.8



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: 4.997 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. -0.13 min

Lab File: VN064248.D

Acq: 22 Oct 2020 5:24

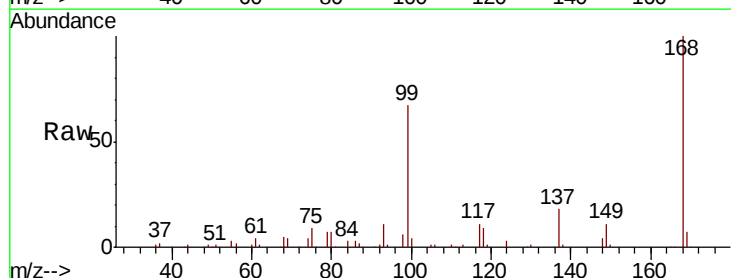
Tgt Ion: 75 Resp: 21833

Ion Ratio Lower Upper

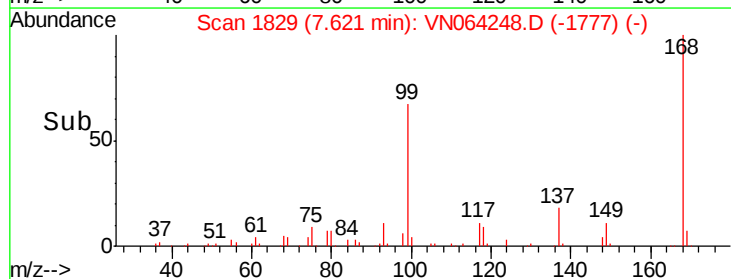
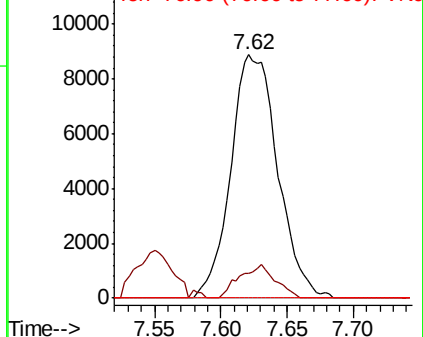
75 100

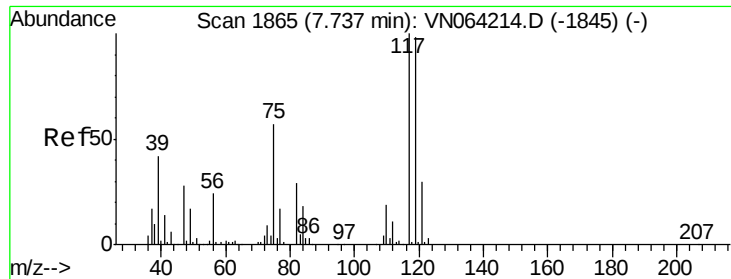
110 10.6 17.2 51.6#

77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 5.657 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN064248.D

Acq: 22 Oct 2020 5:24

Instrument :

MSVOA_N

ClientSampled :

357

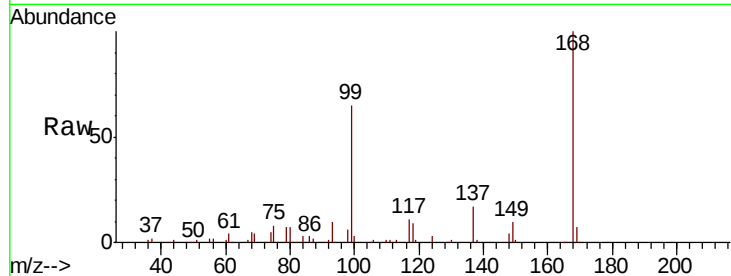
Tot Ion:117 Resp: 28124

Ion Ratio Lower Upper

117 100

119 5.4 78.5 117.7#

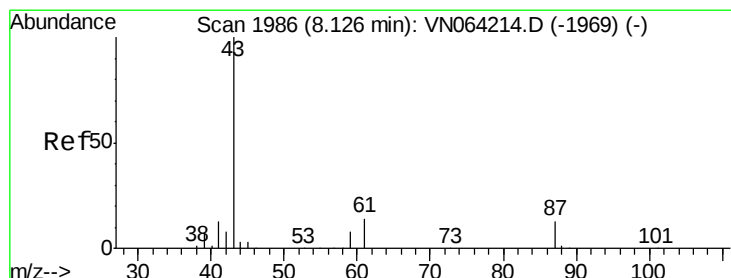
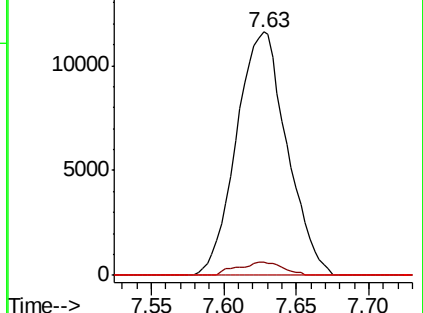
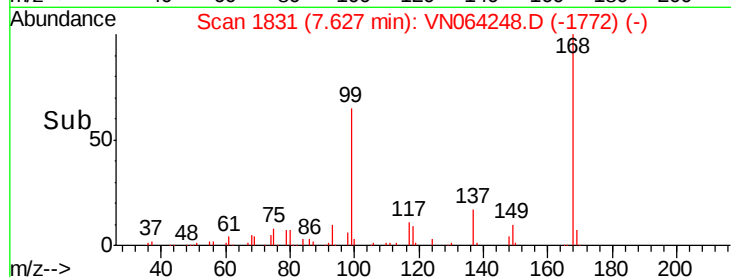
121 0.0 24.3 36.5#



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: 11.836 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN064248.D

Acq: 22 Oct 2020 5:24

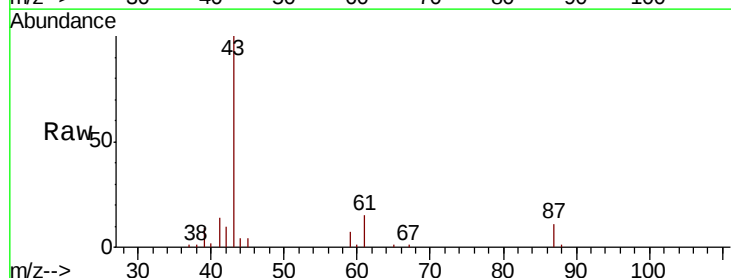
Tgt Ion: 43 Resp: 87508

Ion Ratio Lower Upper

43 100

61 15.5 19.6 29.4#

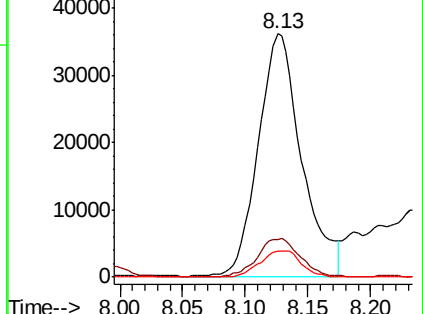
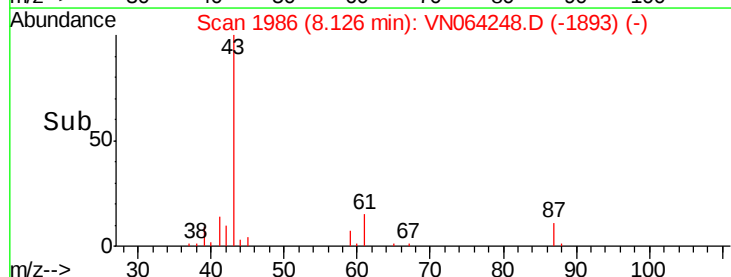
87 10.1 9.8 14.6

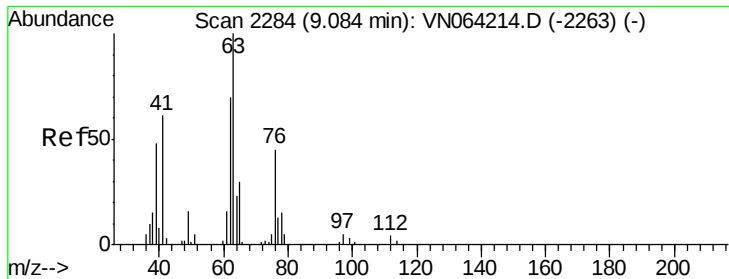


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#45

1,2-Dichloropropane

Concen: 0.298 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN064248.D

Acq: 22 Oct 2020 5:24

Instrument :

MSVOA_N

ClientSampleId :

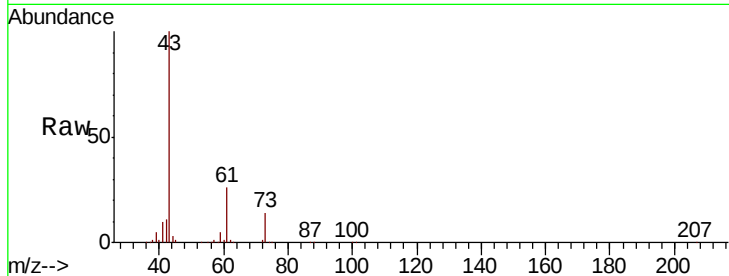
357

Tot Ion: 63 Resp: 960

Ion Ratio Lower Upper

63 100

65 0.0 24.0 36.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.23

600

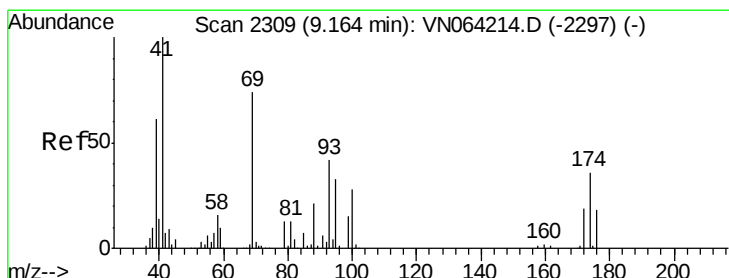
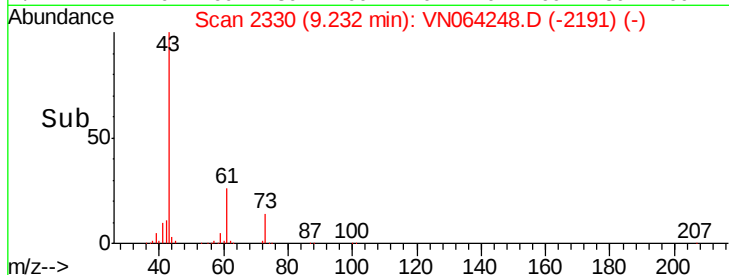
400

200

0

9.20 9.22 9.24 9.26

Time-->



#48

Methyl methacrylate

Concen: 1.257 ug/l

RT: 9.14 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN064248.D

Acq: 22 Oct 2020 5:24

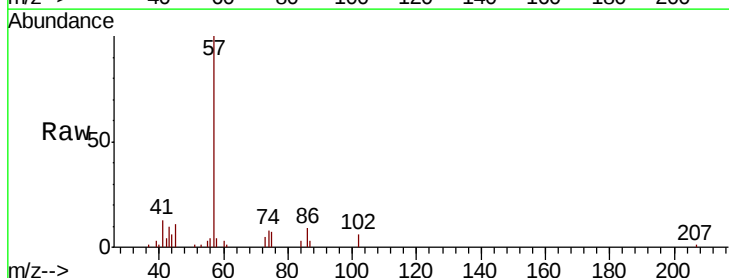
Tgt Ion: 41 Resp: 4855

Ion Ratio Lower Upper

41 100

69 0.0 57.3 85.9#

39 0.0 48.6 73.0#



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

40000

30000

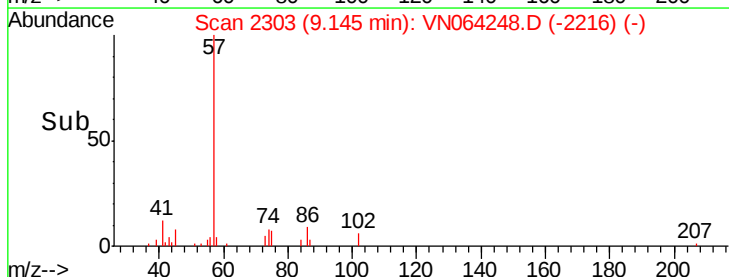
20000

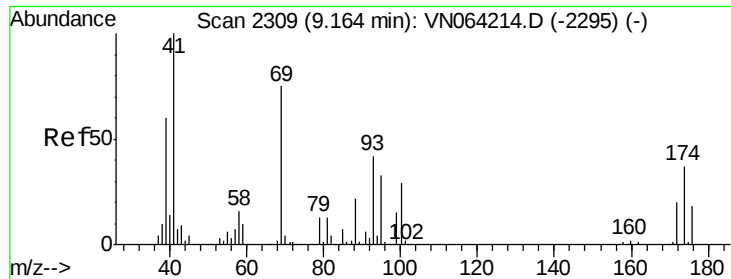
10000

0

9.10 9.15 9.20

Time-->





#49

1,4-Dioxane

Concen: 2.014 ug/l

RT: 9.23 min Scan# 2329

Delta R.T. 0.06 min

Lab File: VN064248.D

Acq: 22 Oct 2020 5:24

Instrument :

MSVOA_N

ClientSampleId :

357

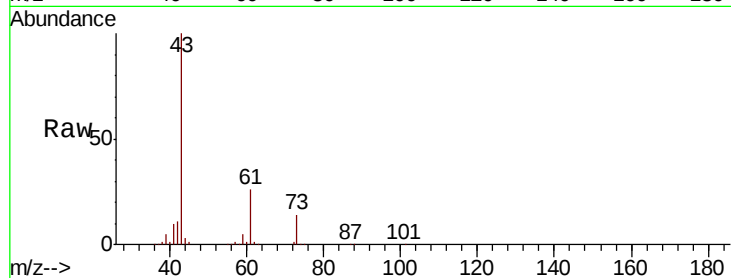
Tot Ion: 88 Resp: 91

Ion Ratio Lower Upper

88 100

43 1026671.4 34.6 52.0#

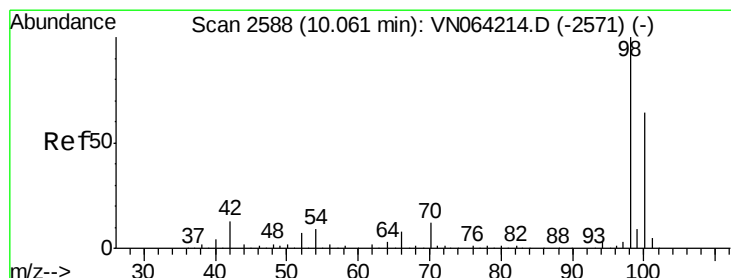
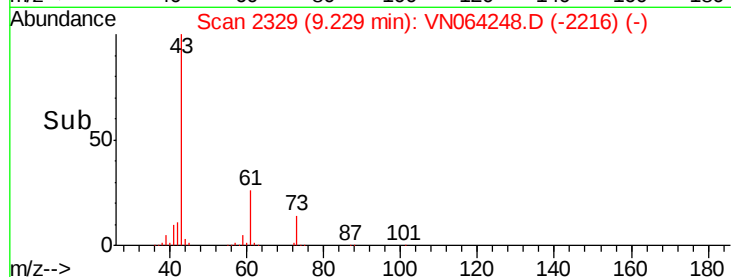
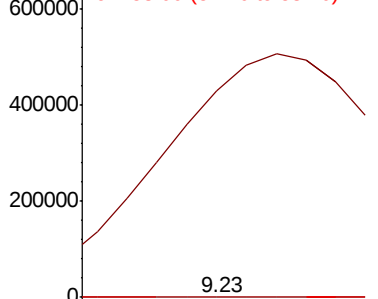
58 3785.7 59.0 88.6#



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: 53.170 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. -0.00 min

Lab File: VN064248.D

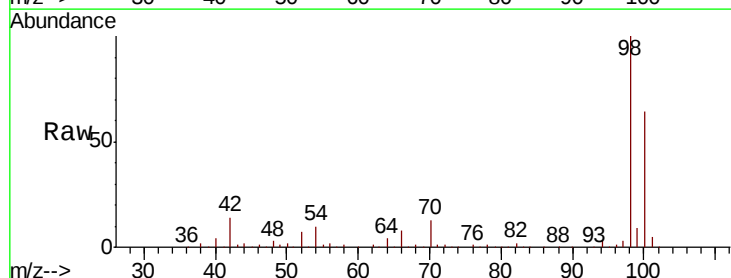
Acq: 22 Oct 2020 5:24

Tgt Ion: 98 Resp: 561991

Ion Ratio Lower Upper

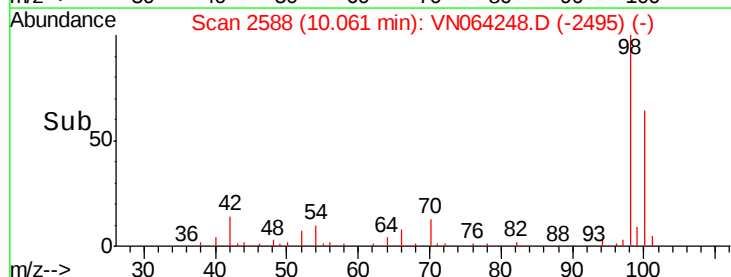
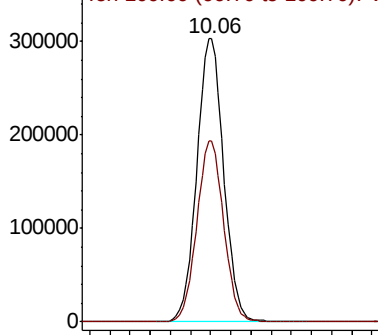
98 100

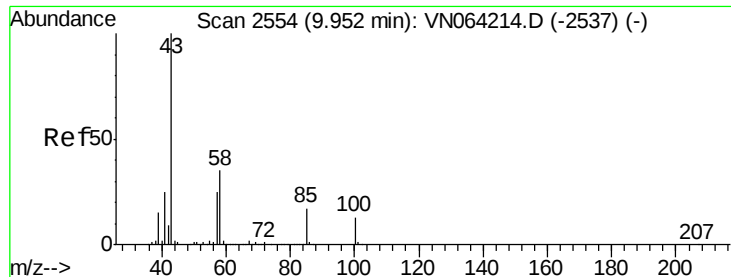
100 64.0 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

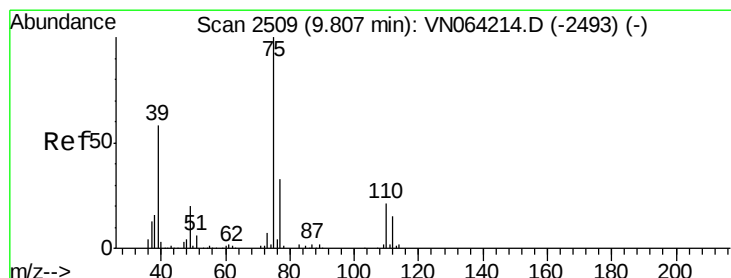
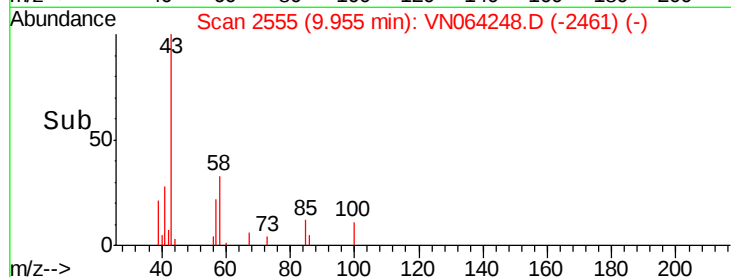
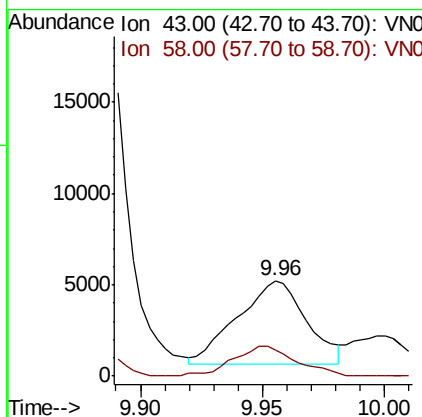
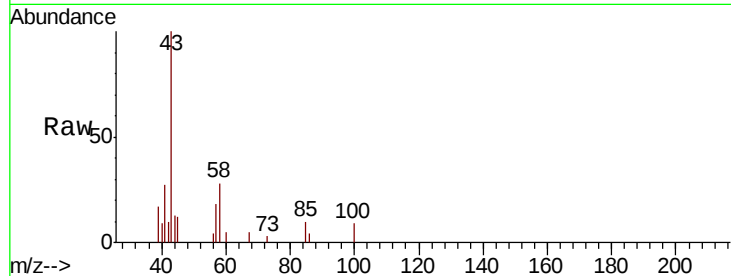




#51
 4-Methyl-2-Pentanone
 Concen: 2.241 ug/l
 RT: 9.96 min Scan# 2555
 Delta R.T. 0.00 min
 Lab File: VN064248.D
 Acq: 22 Oct 2020 5:24

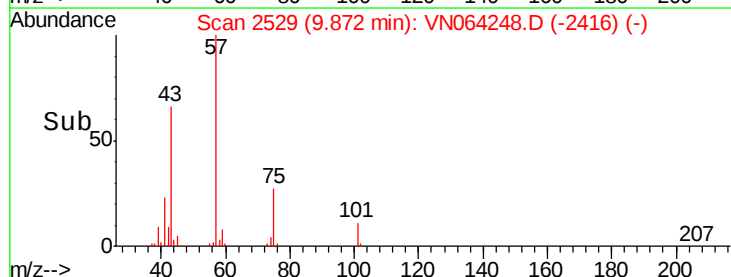
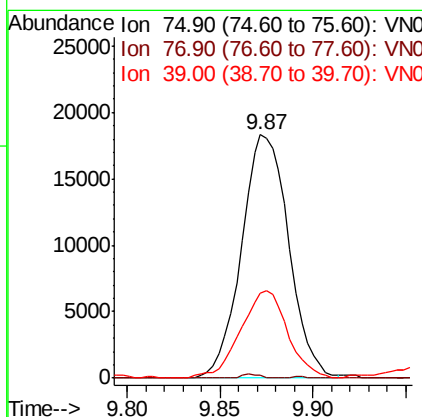
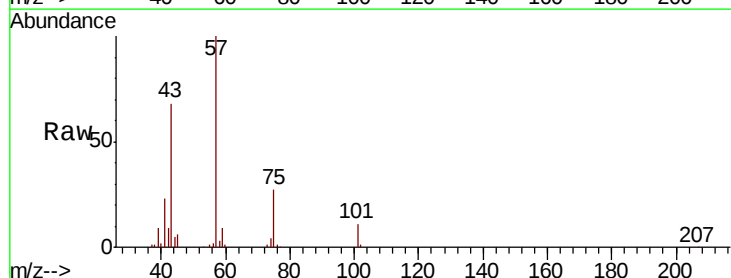
Instrument :
 MSVOA_N
 ClientSampled :
 357

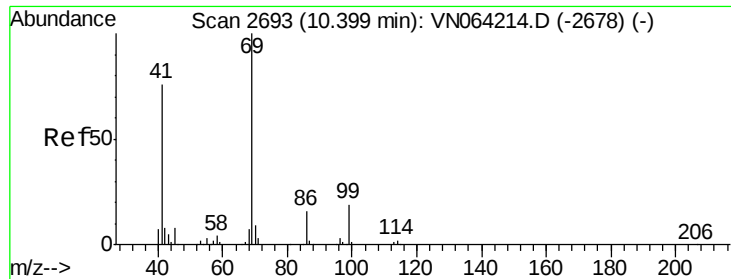
Tot Ion: 43 Resp: 8855
 Ion Ratio Lower Upper
 43 100
 58 33.2 28.6 42.8



#54
 cis-1,3-Dichloropropene
 Concen: 5.817 ug/l
 RT: 9.87 min Scan# 2529
 Delta R.T. 0.06 min
 Lab File: VN064248.D
 Acq: 22 Oct 2020 5:24

Tgt Ion: 75 Resp: 32499
 Ion Ratio Lower Upper
 75 100
 77 1.0 26.6 39.8#
 39 34.8 46.7 70.1#





#56

Ethyl methacrylate

Concen: 0.204 ug/l

RT: 10.51 min Scan# 2728

Delta R.T. 0.11 min

Lab File: VN064248.D

Acq: 22 Oct 2020 5:24

Instrument :

MSVOA_N

ClientSampled :

357

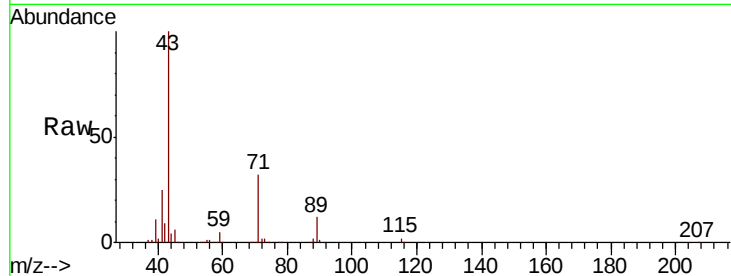
Tot Ion: 69 Resp: 921

Ion Ratio Lower Upper

69 100

41 8746.9 61.4 92.2#

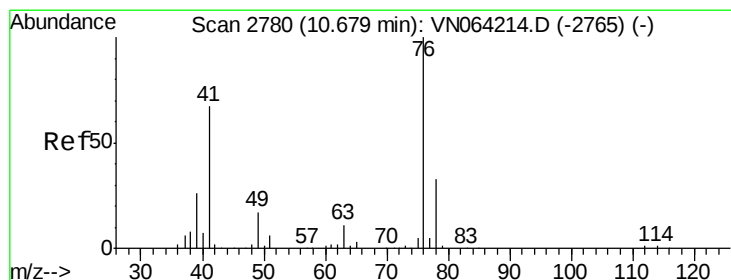
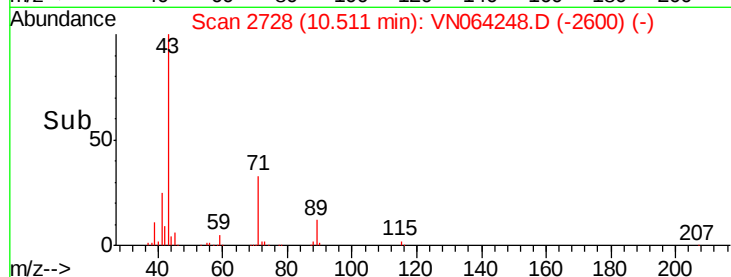
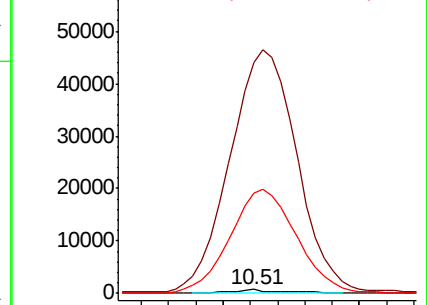
39 3671.2 36.0 54.0#



Abundance Ion 69.00 (68.70 to 69.70): VN064248.D (-2600) (-)

Ion 41.00 (40.70 to 41.70): VN064248.D (-2600) (-)

Ion 39.00 (38.70 to 39.70): VN064248.D (-2600) (-)



#57

1,3-Dichloropropane

Concen: 0.811 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN064248.D

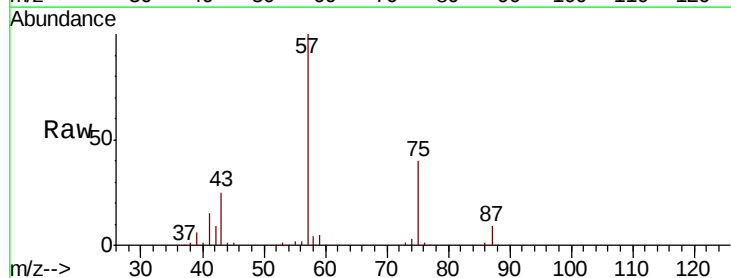
Acq: 22 Oct 2020 5:24

Tgt Ion: 76 Resp: 4104

Ion Ratio Lower Upper

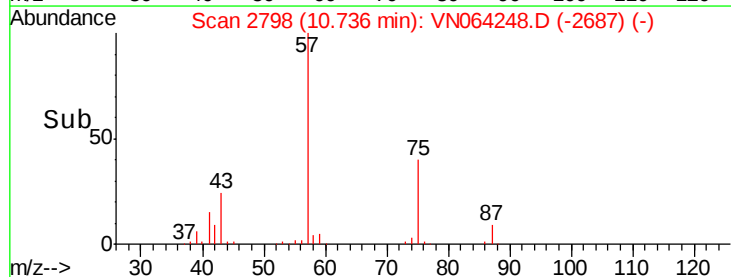
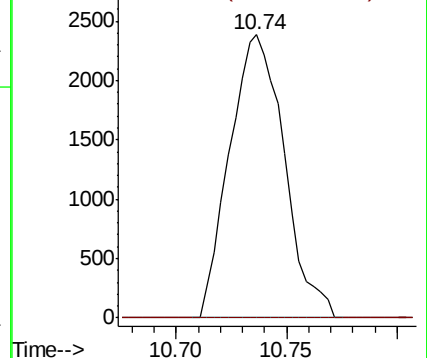
76 100

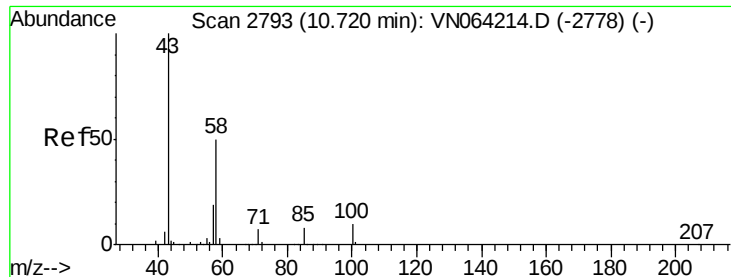
78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VN064248.D (-2687) (-)

Ion 77.90 (77.60 to 78.60): VN064248.D (-2687) (-)

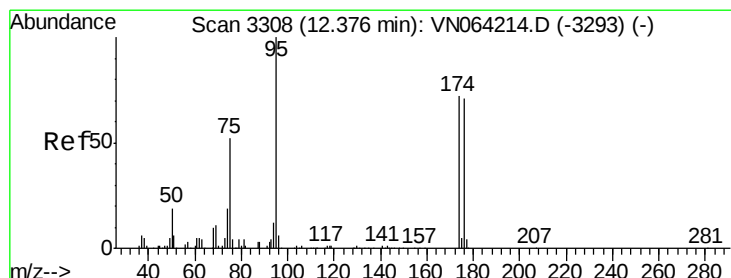
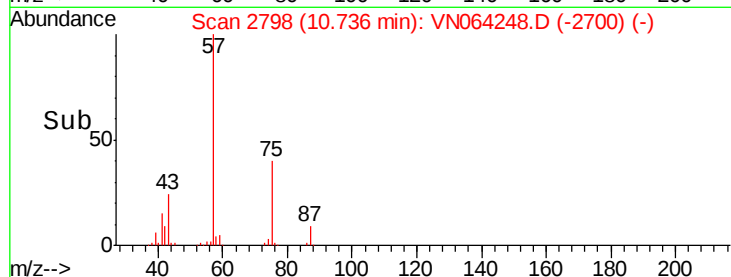
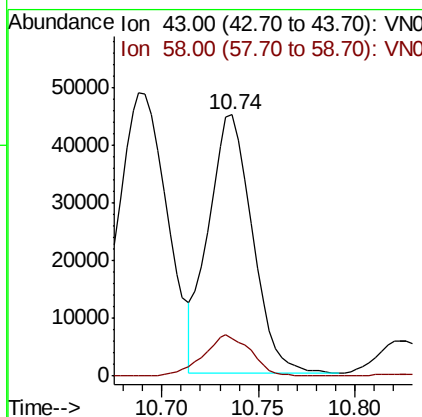
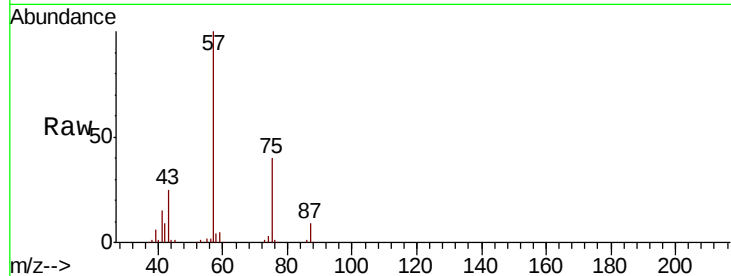




#59
2-Hexanone
Concen: 24.443 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN064248.D
Acq: 22 Oct 2020 5:24

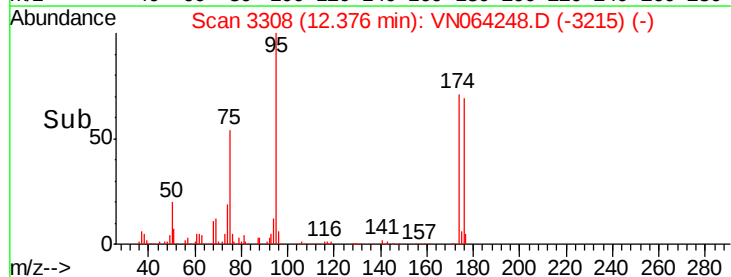
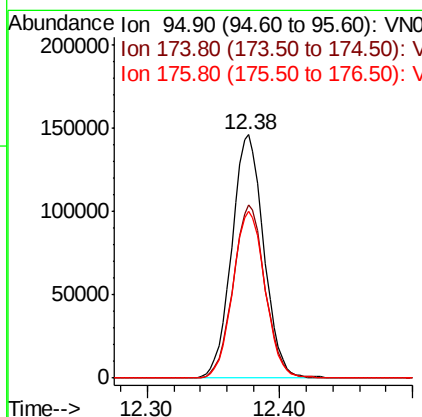
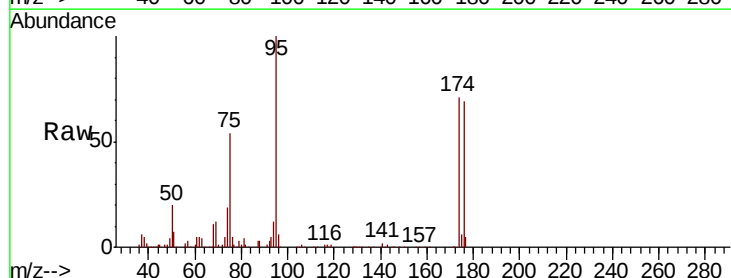
Instrument :
MSVOA_N
ClientSampled :
357

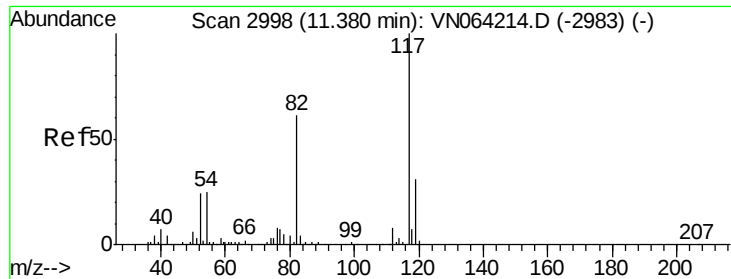
Tot Ion: 43 Resp: 70534
Ion Ratio Lower Upper
43 100
58 17.3 24.8 74.3#



#62
4-Bromofluorobenzene
Concen: 57.123 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN064248.D
Acq: 22 Oct 2020 5:24

Tgt Ion: 95 Resp: 244764
Ion Ratio Lower Upper
95 100
174 70.6 0.0 144.4
176 69.0 0.0 139.2

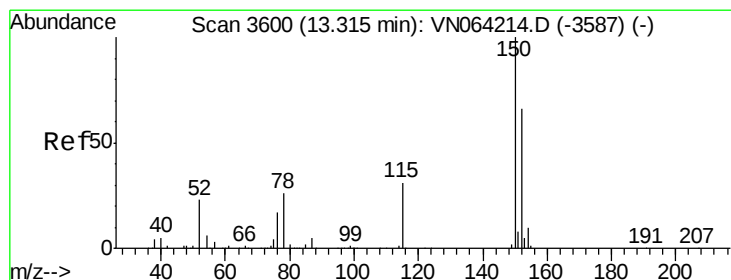
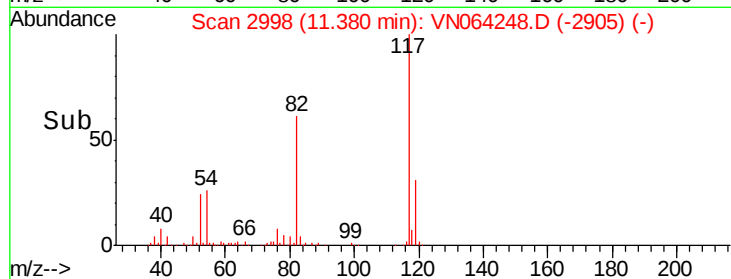
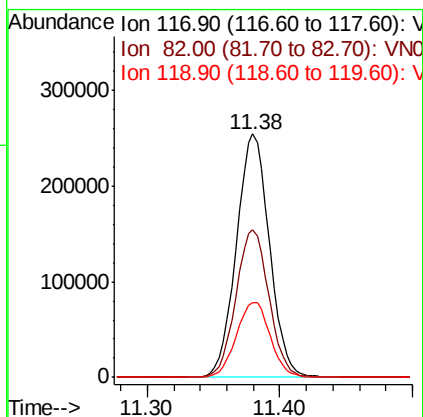
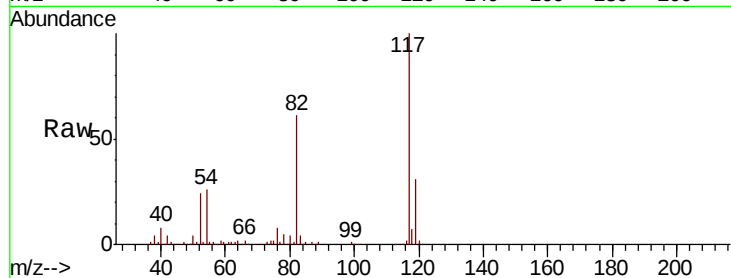




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN064248.D
Acq: 22 Oct 2020 5:24

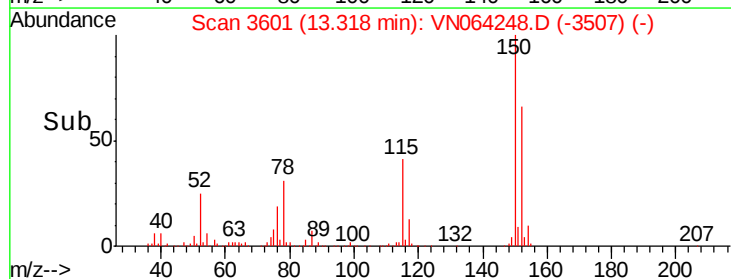
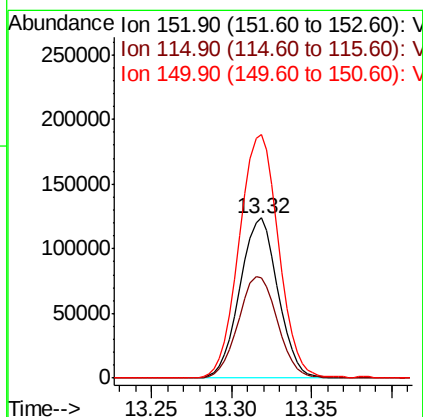
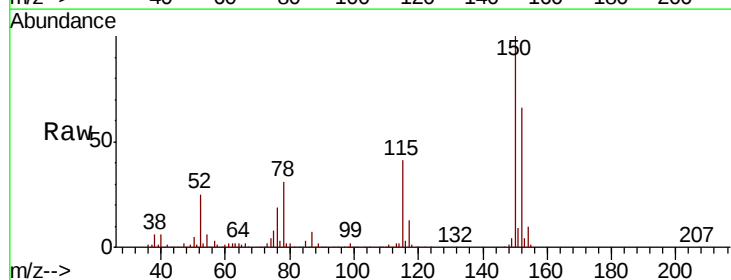
Instrument :
MSVOA_N
ClientSampleId :
357

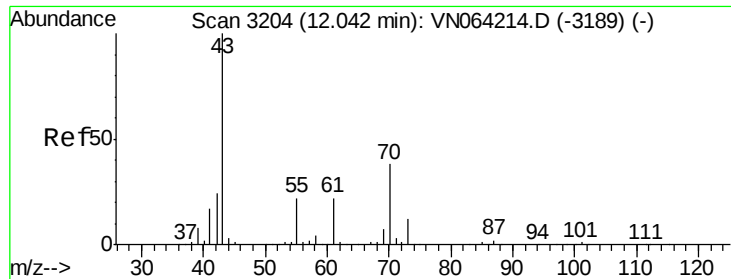
Tot Ion:117 Resp: 440249
Ion Ratio Lower Upper
117 100
82 60.6 48.8 73.2
119 30.7 24.7 37.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN064248.D
Acq: 22 Oct 2020 5:24

Tgt Ion:152 Resp: 201767
Ion Ratio Lower Upper
152 100
115 65.3 32.0 96.2
150 157.0 0.0 356.6





#74

N-amvl acetate

Concen: 0.601 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN064248.D

Acq: 22 Oct 2020 5:24

Instrument :

MSVOA_N

ClientSampled :

357

Tot Ion: 43 Resp: 3994

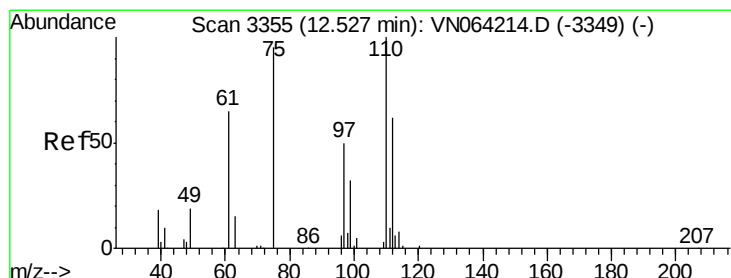
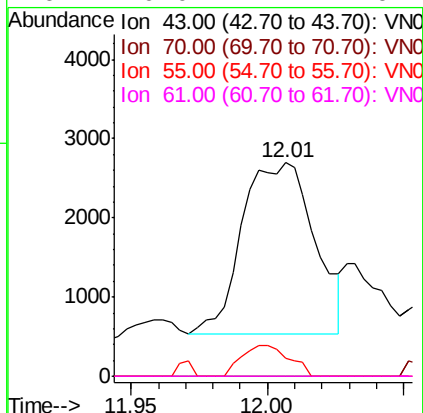
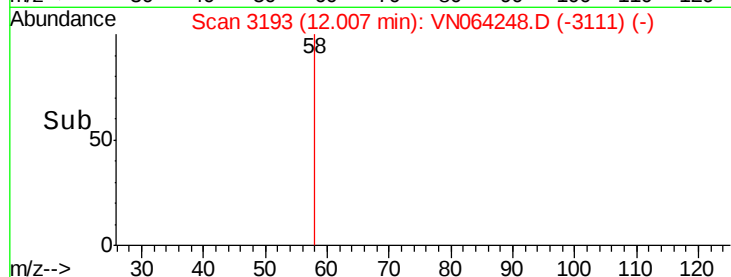
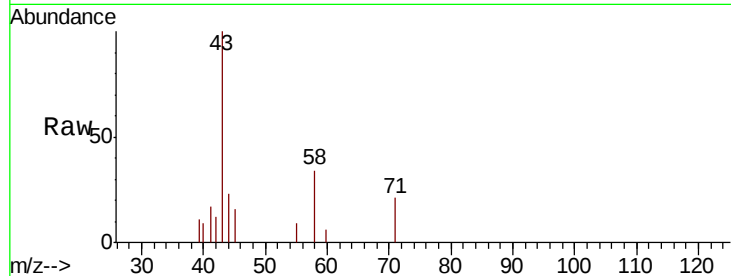
Ion Ratio Lower Upper

43 100

70 0.0 30.2 45.4#

55 11.8 18.0 27.0#

61 0.0 17.4 26.2#



#76

1,2,3-Trichloropropane

Concen: 31.227 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN064248.D

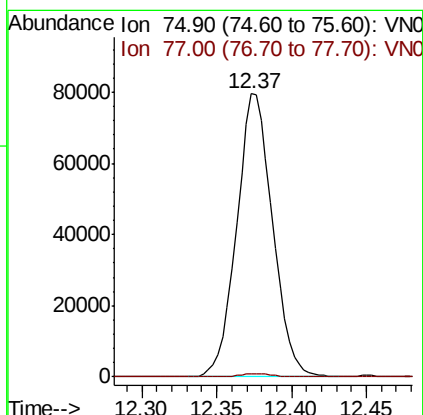
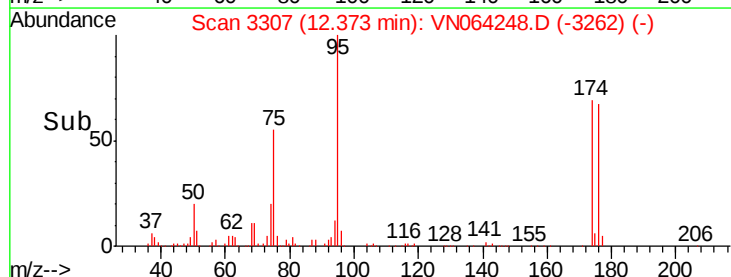
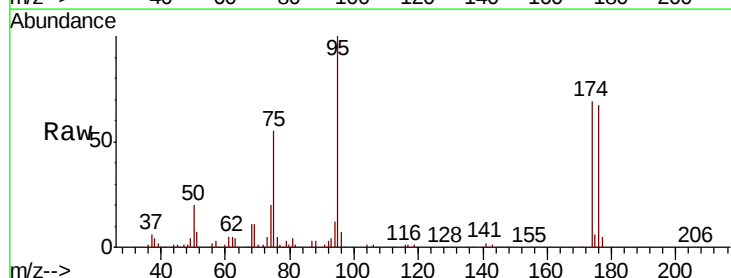
Acq: 22 Oct 2020 5:24

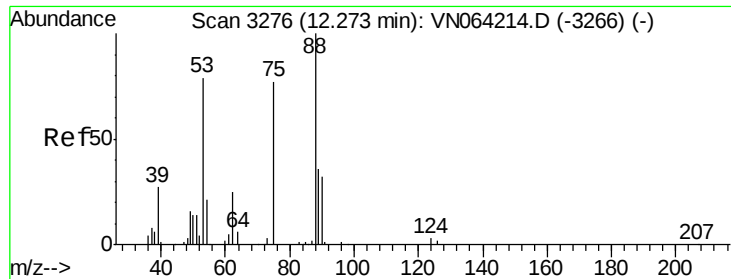
Tgt Ion: 75 Resp: 132826

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 78.839 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN064248.D

Acq: 22 Oct 2020 5:24

Instrument :

MSVOA_N

ClientSampleId :

357

Tot Ion: 75 Resp: 132826

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.4#

89 0.0 38.7 58.1#

