

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102020\
 Data File : VN064205.D
 Acq On : 20 Oct 2020 19:04
 Operator : JC/MD
 Sample : L4457-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 21 04:50:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N102020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Oct 20 11:51:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	46847	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	280207	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	235352	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	128449	33.49	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	111.63%
60) 4-Bromofluorobenzene	12.38	95	121568	28.82	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.07%
63) Toluene-d8	10.06	98	322520	30.27	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.90%

Target Compounds

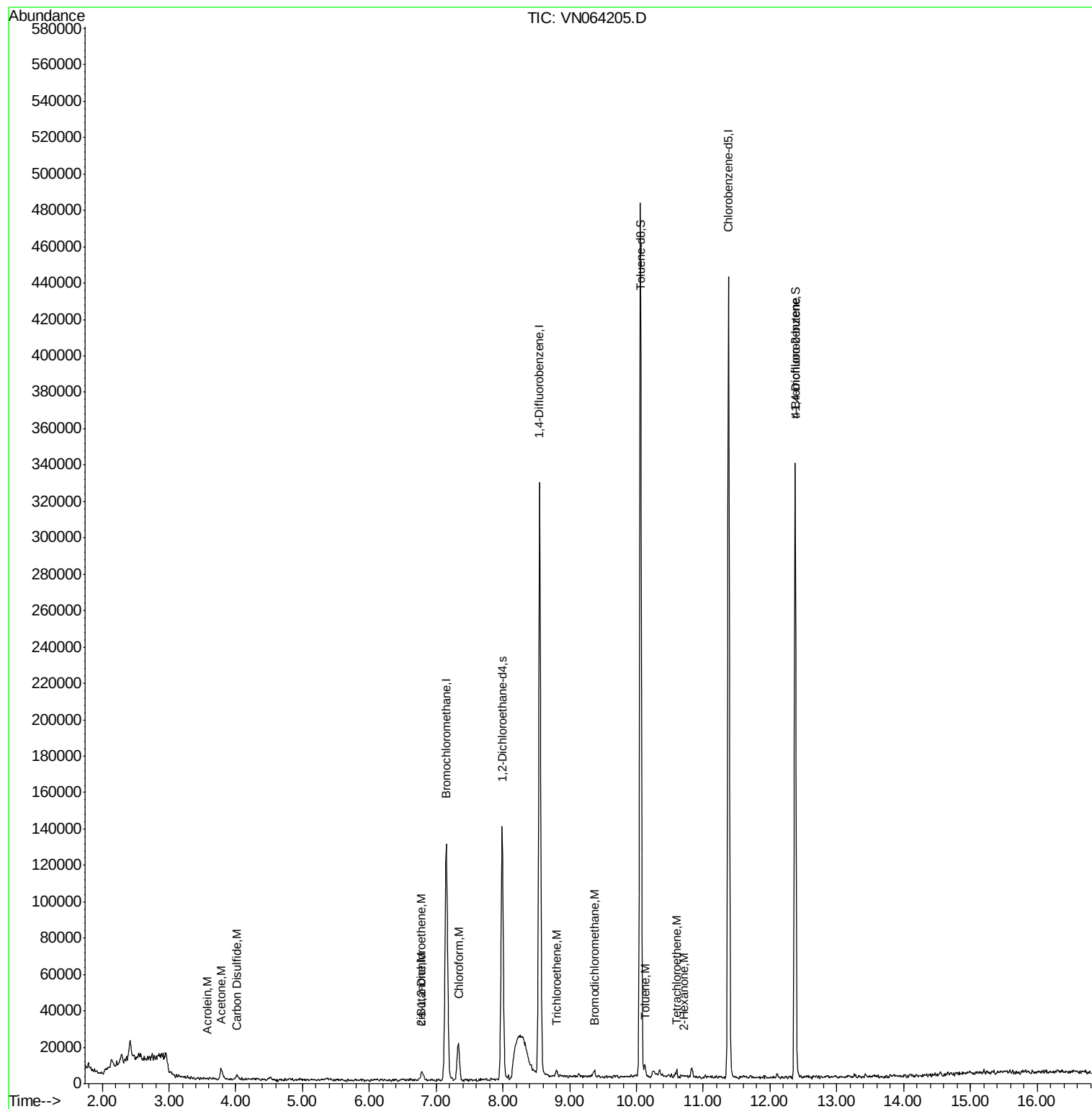
					Ovalue	
13) Acrolein	3.57	56	101	0.328	ug/l #	1
15) Acetone	3.78	58	2639	8.609	ug/l	73
16) Carbon Disulfide	4.02	76	3764	0.492	ug/l #	92
22) cis-1,2-Dichloroethene	6.79	96	2354	0.698	ug/l #	1
25) Chloroform	7.33	83	12070	2.072	ug/l	84
30) 2-Butanone	6.78	43	674	0.351	ug/l #	79
37) Trichloroethene	8.80	130	1335	0.374	ug/l	92
41) Bromodichloromethane	9.37	83	1336	0.257	ug/l #	72
59) 2-Hexanone	10.71	43	719	0.243	ug/l #	36
61) Tetrachloroethene	10.60	164	804	0.253	ug/l	89
62) Toluene	10.12	91	4358	0.324	ug/l #	78
77) t-1,4-Dichloro-2-butene	12.38	75	64986	39.422	ug/l #	8

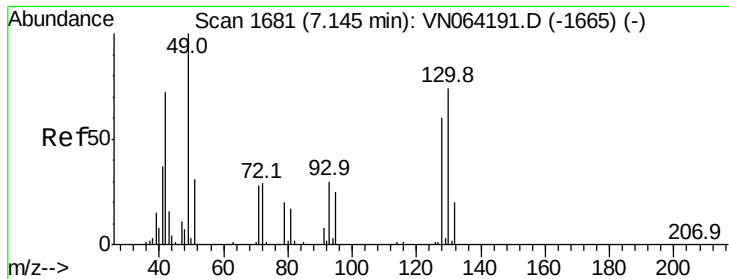
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
ClientSampleId :

Quant Time: Oct 21 04:50:20 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N102020W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Oct 20 11:51:57 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.15 min Scan# 1684

Delta R.T. 0.01 min

Lab File: VN064205.D

Acq: 20 Oct 2020 19:04

Instrument :

MSVOA_N

ClientSampled :

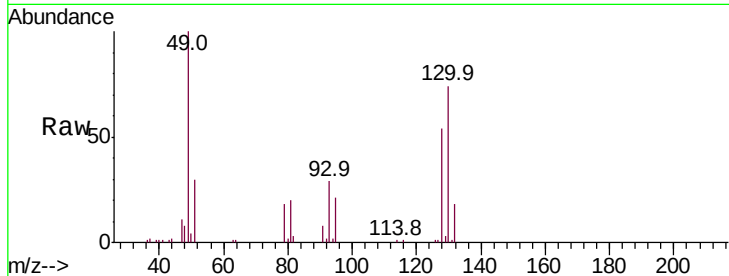
Tot Ion:128 Resp: 46847

Ion Ratio Lower Upper

128 100

49 179.5 0.0 433.3

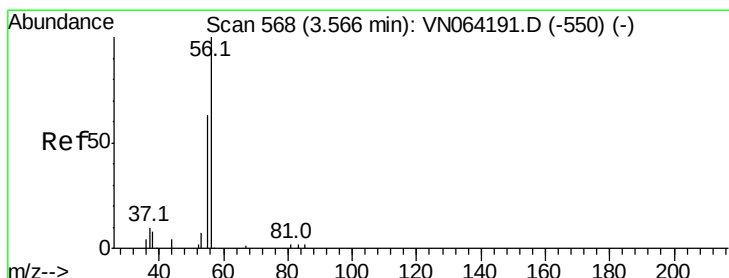
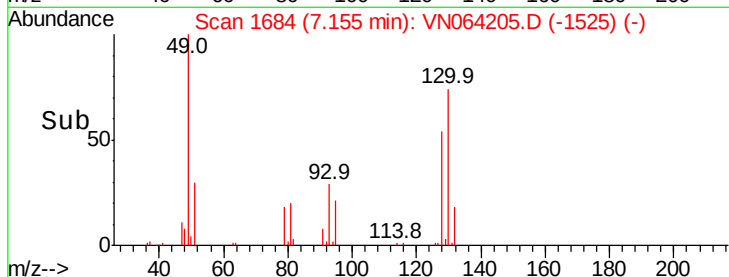
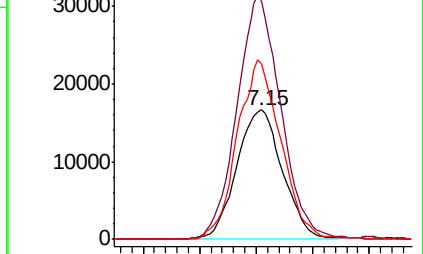
130 131.8 0.0 322.5



Abundance Ion 128.00 (127.70 to 128.70): VN064191.D (-1665) (-)

Ion 49.00 (48.70 to 49.70): VN064191.D (-1665) (-)

Ion 130.00 (129.70 to 130.70): VN064191.D (-1665) (-)



#13

Acrolein

Concen: 0.328 ug/l

RT: 3.57 min Scan# 568

Delta R.T. 0.00 min

Lab File: VN064205.D

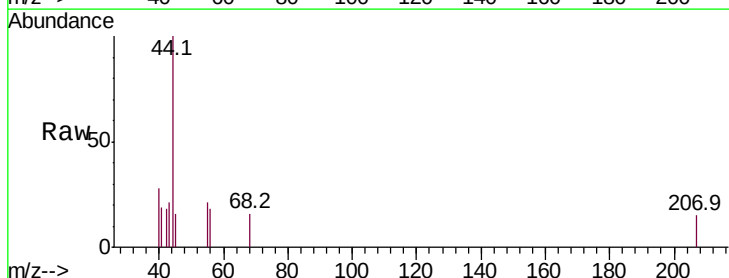
Acq: 20 Oct 2020 19:04

Tgt Ion: 56 Resp: 101

Ion Ratio Lower Upper

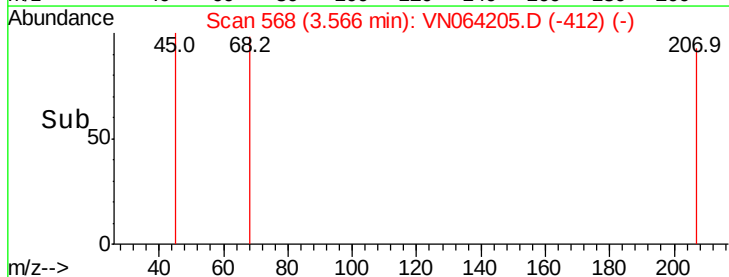
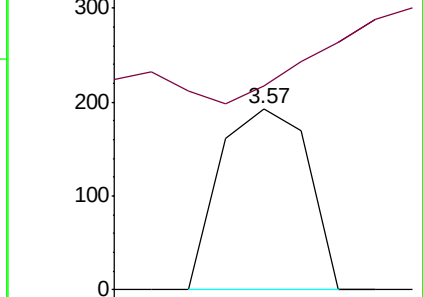
56 100

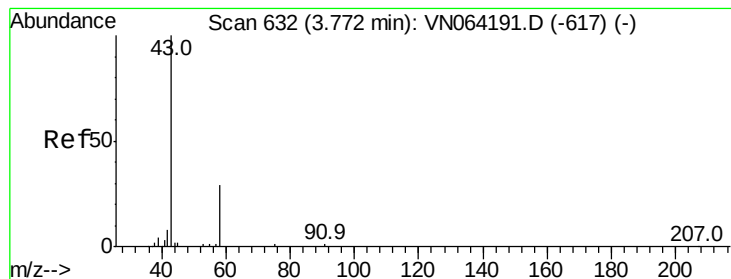
55 262.4 0.5 0.7#



Abundance Ion 56.00 (55.70 to 56.70): VN064191.D (-550) (-)

Ion 55.00 (54.70 to 55.70): VN064191.D (-550) (-)





#15

Acetone

Concen: 8.609 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN064205.D

Acq: 20 Oct 2020 19:04

Instrument :

MSVOA_N

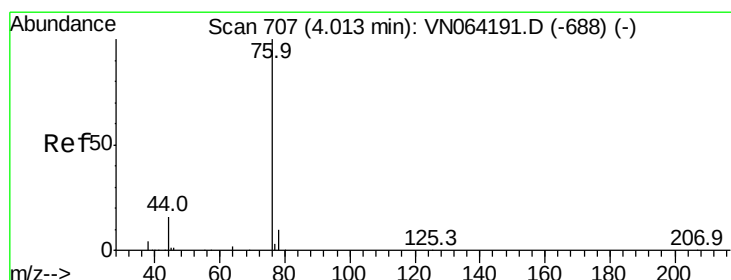
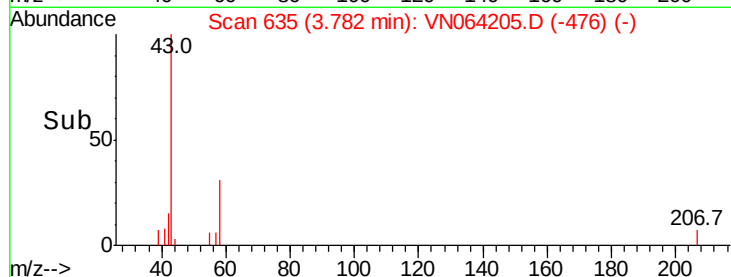
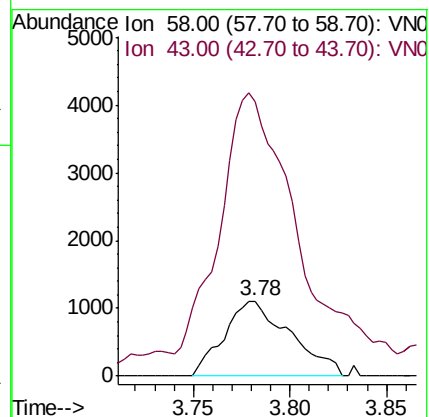
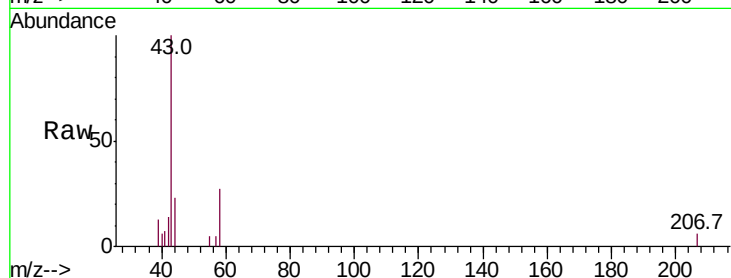
ClientSampleId :

Tot Ion: 58 Resp: 2639

Ion Ratio Lower Upper

58 100

43 282.3 272.1 408.1



#16

Carbon Disulfide

Concen: 0.492 ug/l

RT: 4.02 min Scan# 709

Delta R.T. 0.01 min

Lab File: VN064205.D

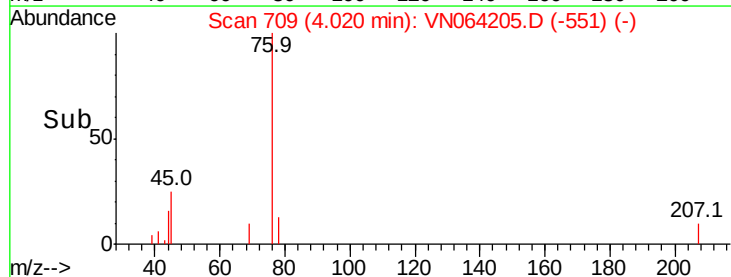
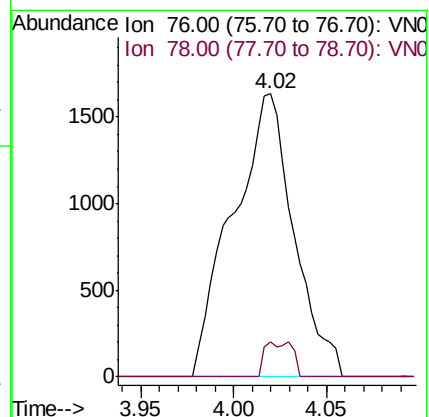
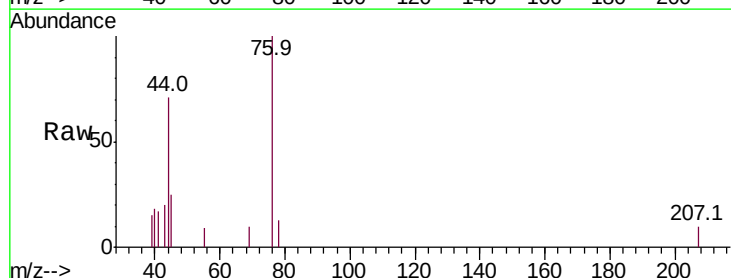
Acq: 20 Oct 2020 19:04

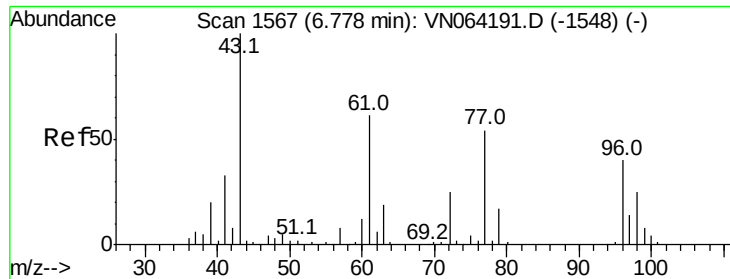
Tgt Ion: 76 Resp: 3764

Ion Ratio Lower Upper

76 100

78 12.5 7.7 11.5#





#22

cis-1,2-Dichloroethene

Concen: 0.698 ug/l

RT: 6.79 min Scan# 1571

Delta R.T. 0.01 min

Lab File: VN064205.D

Acq: 20 Oct 2020 19:04

Instrument :
MSVOA_N
ClientSampled :

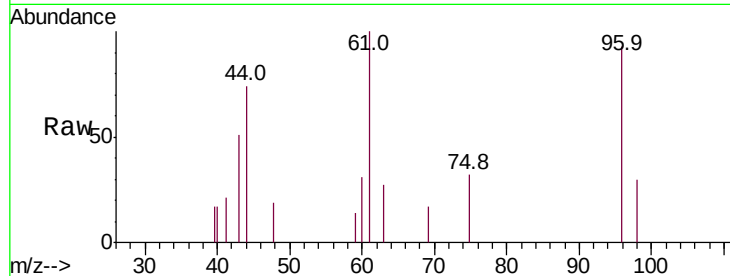
Tot Ion: 96 Resp: 2354

Ion Ratio Lower Upper

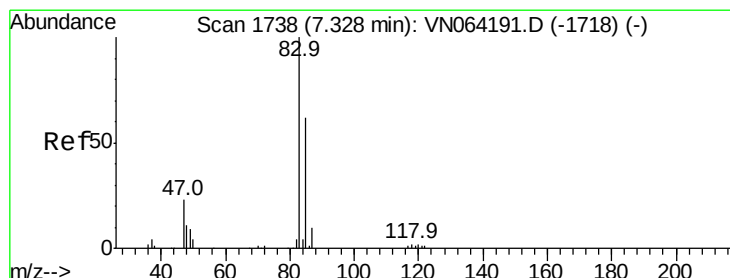
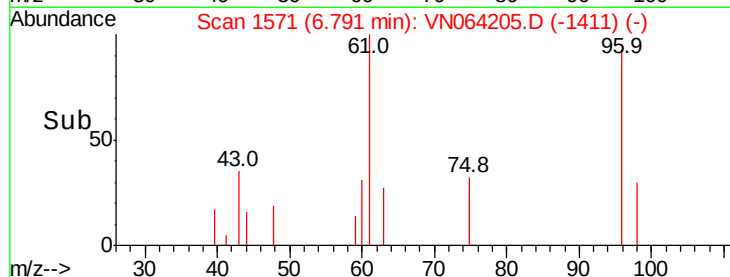
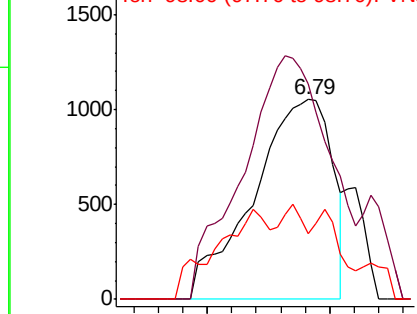
96 100

61 0.0 126.2 189.4#

98 15.1 50.2 75.4#



Abundance Ion 96.00 (95.70 to 96.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 98.00 (97.70 to 98.70): VN0



#25

Chloroform

Concen: 2.072 ug/l

RT: 7.33 min Scan# 1738

Delta R.T. 0.00 min

Lab File: VN064205.D

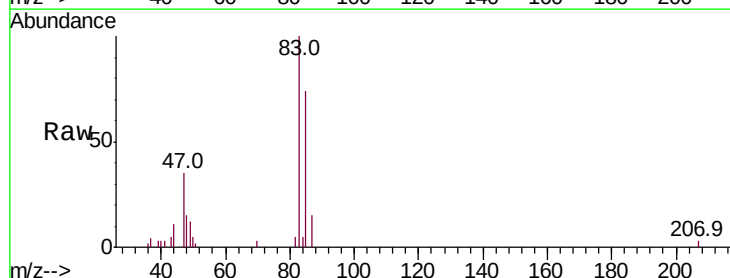
Acq: 20 Oct 2020 19:04

Tgt Ion: 83 Resp: 12070

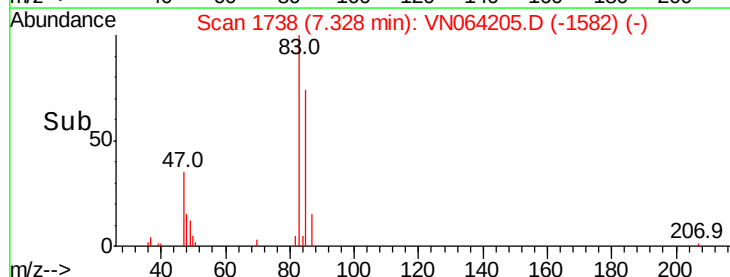
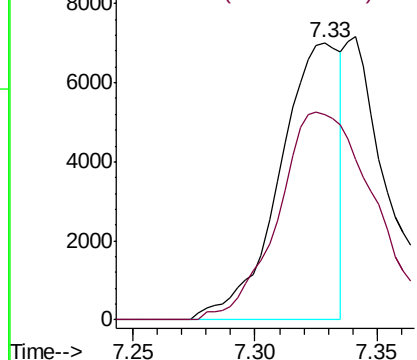
Ion Ratio Lower Upper

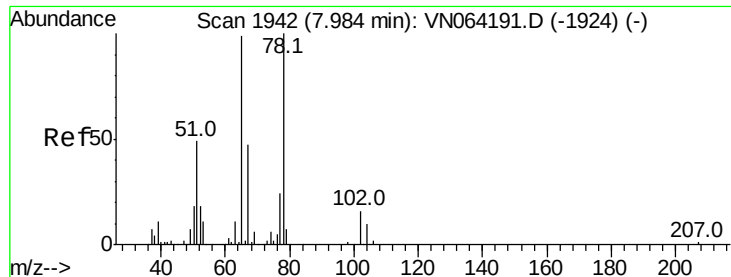
83 100

85 74.1 49.7 74.5



Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 85.00 (84.70 to 85.70): VN0





#27

1,2-Dichloroethane-d4

Concen: 33.490 ug/l

RT: 7.99 min Scan# 1944

Delta R.T. 0.01 min

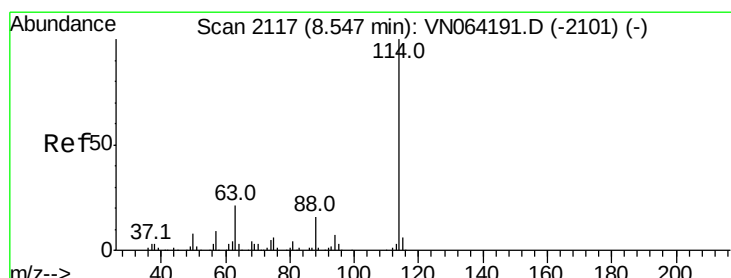
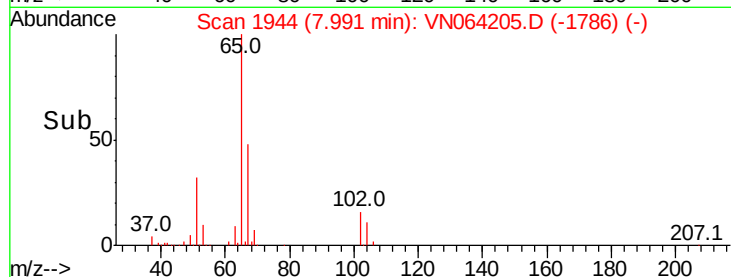
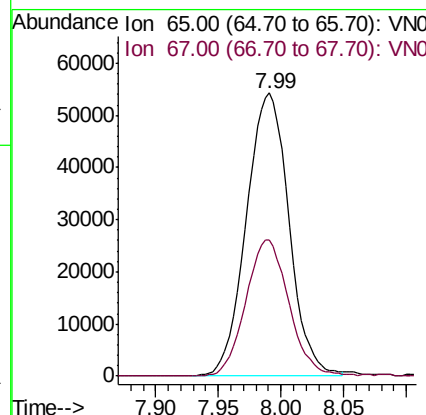
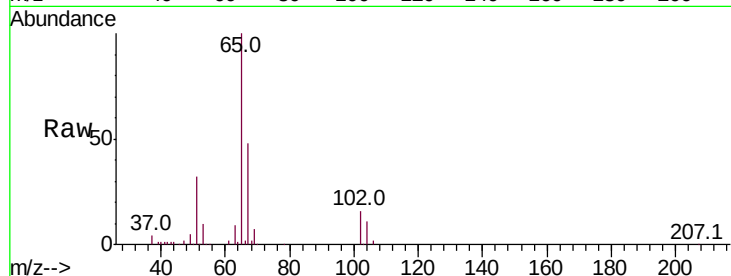
Lab File: VN064205.D

Acq: 20 Oct 2020 19:04

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 65 Resp: 128449

Ion	Ratio	Lower	Upper
65	100		
67	48.5	39.8	59.6



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.55 min Scan# 2118

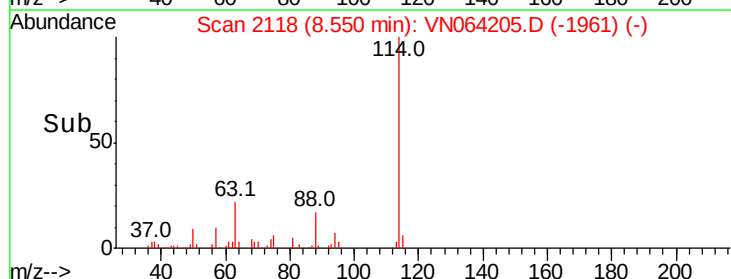
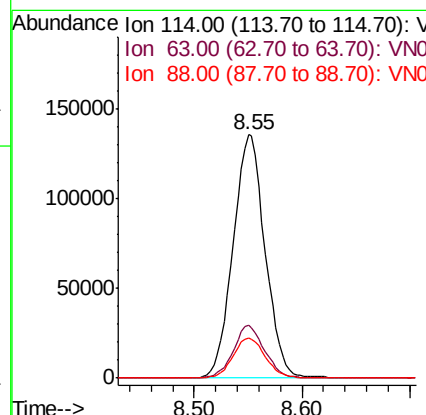
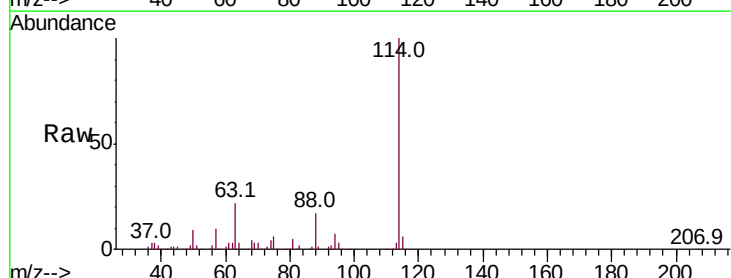
Delta R.T. 0.00 min

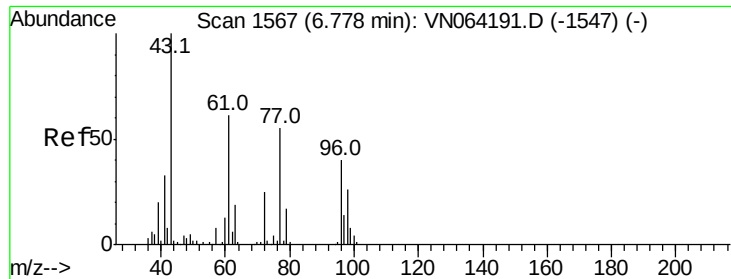
Lab File: VN064205.D

Acq: 20 Oct 2020 19:04

Tgt Ion: 114 Resp: 280207

Ion	Ratio	Lower	Upper
114	100		
63	21.2	17.0	25.4
88	16.6	13.0	19.4

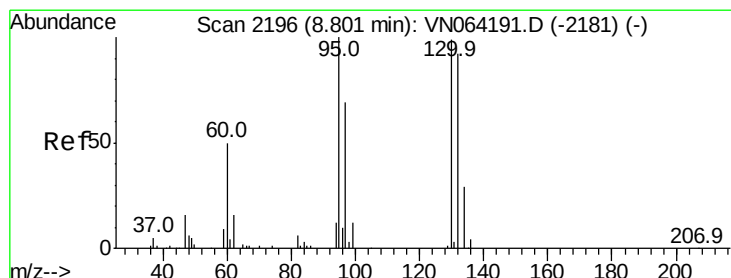
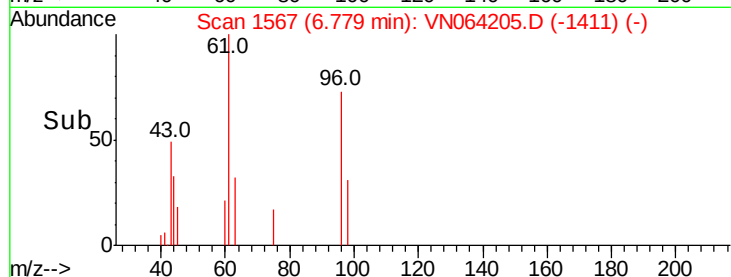
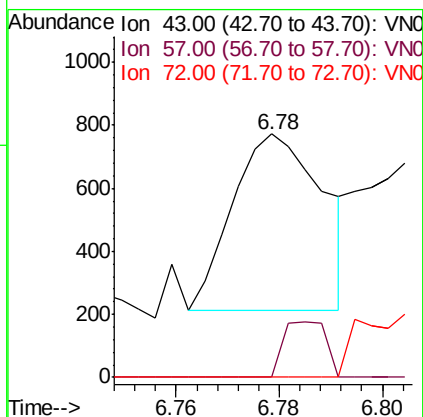
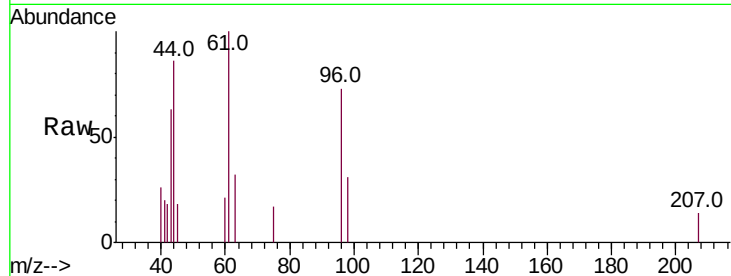




#30
2-Butanone
Concen: 0.351 ug/l
RT: 6.78 min Scan# 1567
Delta R.T. 0.00 min
Lab File: VN064205.D
Acq: 20 Oct 2020 19:04

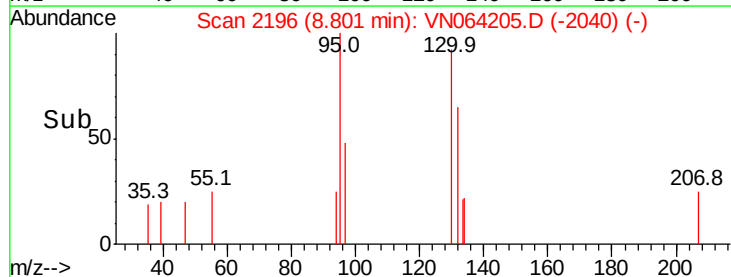
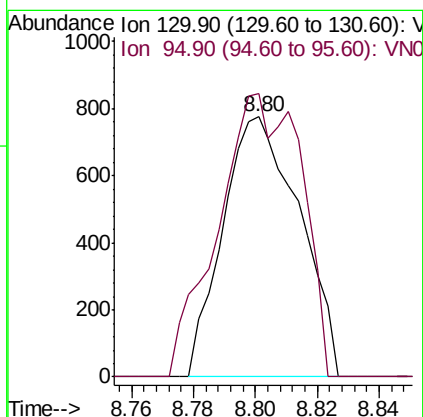
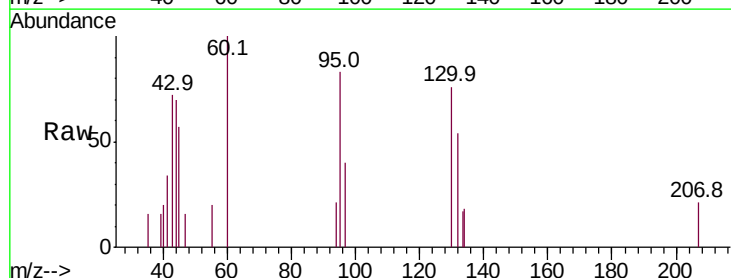
Instrument :
MSVOA_N
ClientSampled :

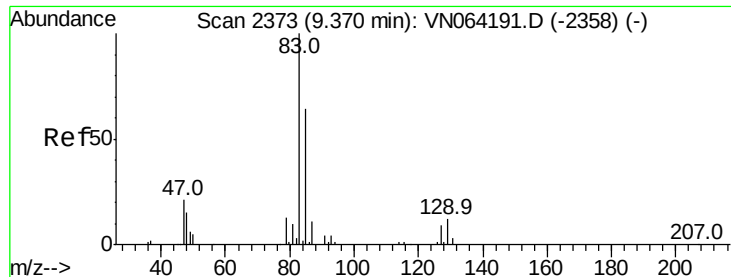
Tot Ion: 43 Resp: 674
Ion Ratio Lower Upper
43 100
57 15.0 5.8 8.6#
72 14.5 19.8 29.8#



#37
Trichloroethene
Concen: 0.374 ug/l
RT: 8.80 min Scan# 2196
Delta R.T. 0.00 min
Lab File: VN064205.D
Acq: 20 Oct 2020 19:04

Tgt Ion:130 Resp: 1335
Ion Ratio Lower Upper
130 100
95 108.8 81.0 121.4





#41

Bromodichloromethane

Concen: 0.257 ug/l

RT: 9.37 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN064205.D

Acq: 20 Oct 2020 19:04

Instrument :
MSVOA_N
ClientSampleId :

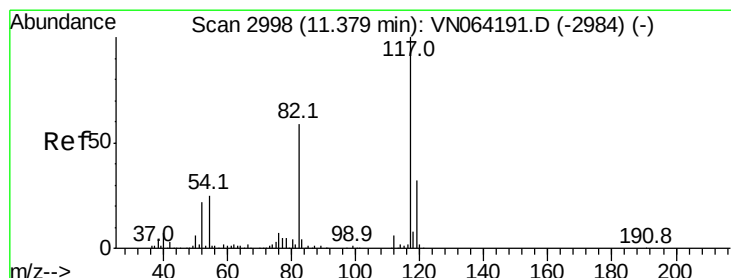
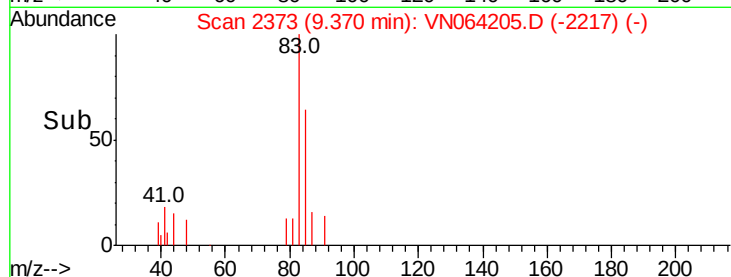
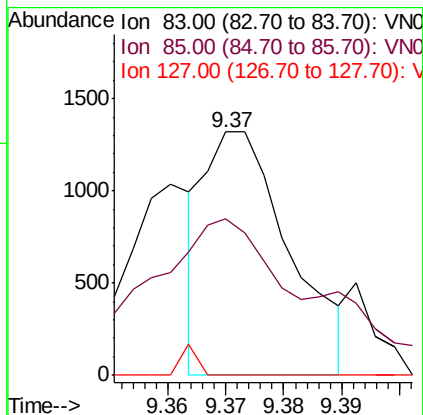
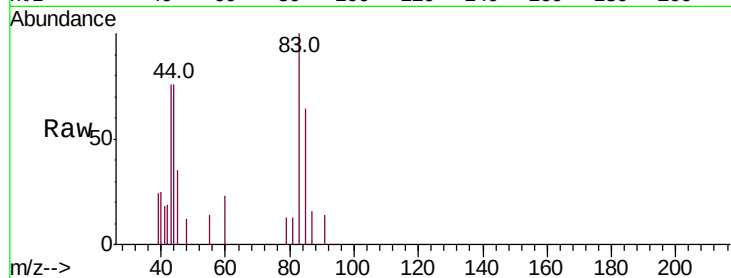
Tot Ion: 83 Resp: 1336

Ion Ratio Lower Upper

83 100

85 42.0 51.5 77.3#

127 0.0 6.8 10.2#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN064205.D

Acq: 20 Oct 2020 19:04

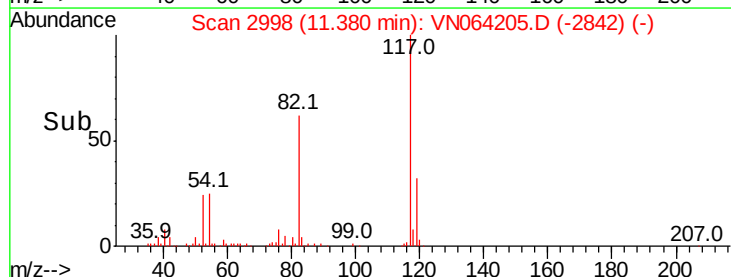
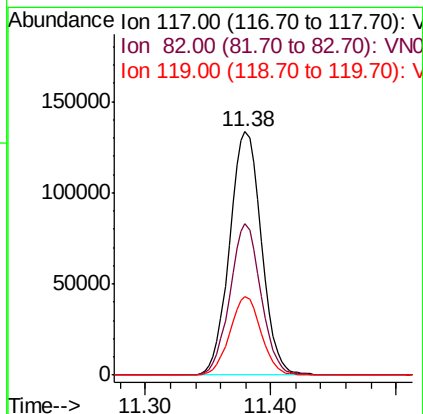
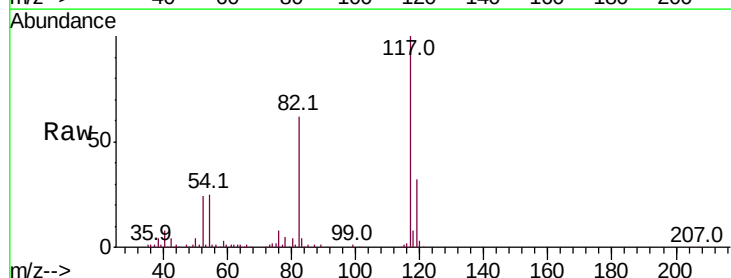
Tgt Ion: 117 Resp: 235352

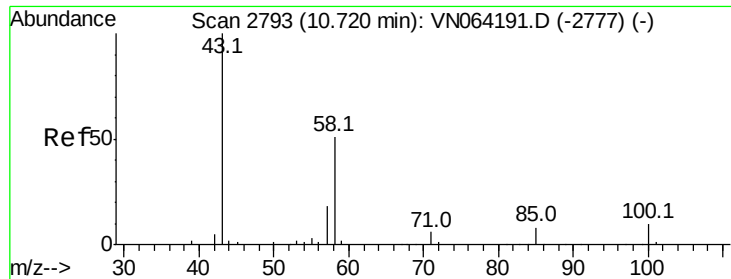
Ion Ratio Lower Upper

117 100

82 60.5 47.8 71.8

119 31.7 25.7 38.5





#59

2-Hexanone

Concen: 0.243 ug/l

RT: 10.71 min Scan# 2791

Delta R.T. -0.01 min

Lab File: VN064205.D

Acq: 20 Oct 2020 19:04

Instrument :

MSVOA_N

ClientSampleId :

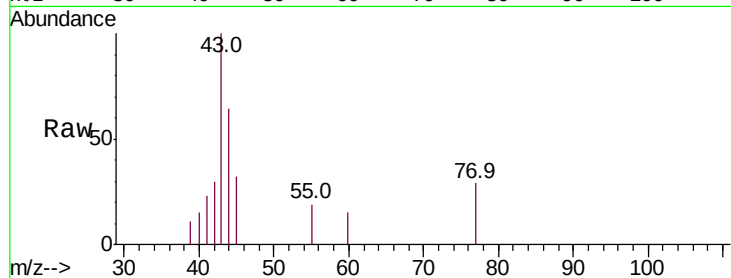
Tot Ion: 43 Resp: 719

Ion Ratio Lower Upper

43 100

58 0.0 40.2 60.4#

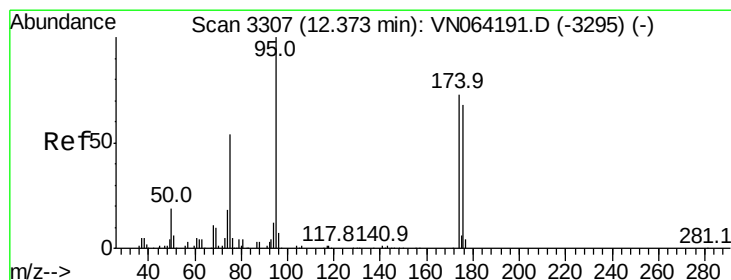
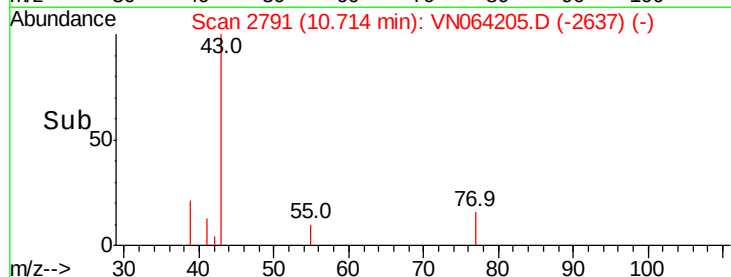
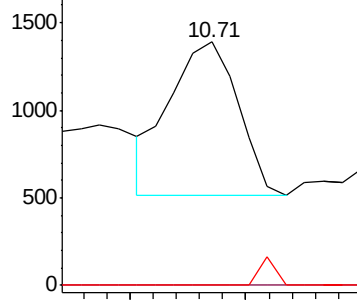
57 0.0 14.8 22.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#60

4-Bromofluorobenzene

Concen: 28.824 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064205.D

Acq: 20 Oct 2020 19:04

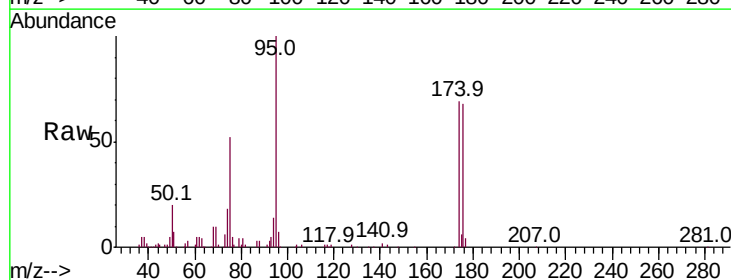
Tgt Ion: 95 Resp: 121568

Ion Ratio Lower Upper

95 100

174 70.0 57.6 86.4

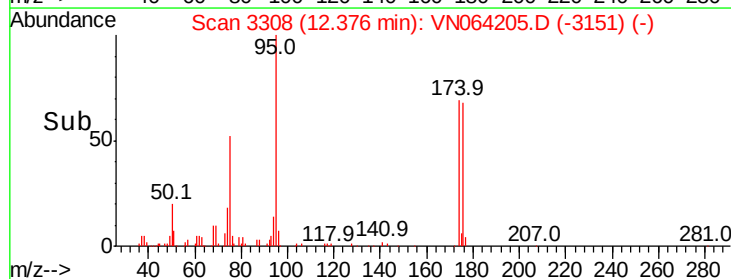
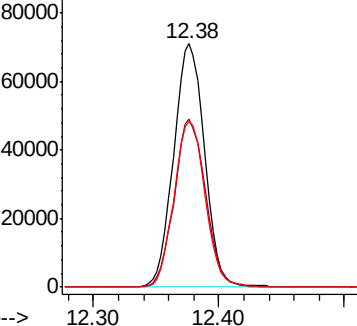
176 68.4 54.9 82.3

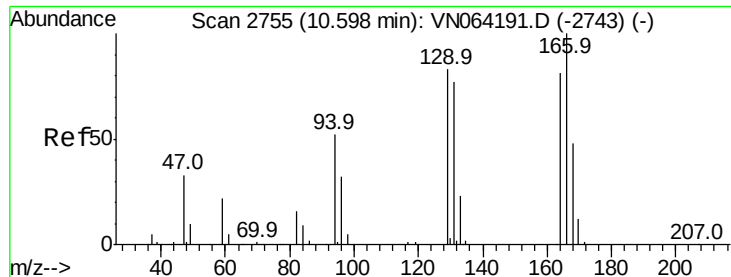


Abundance Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





#61

Tetrachloroethene

Concen: 0.253 ug/l

RT: 10.60 min Scan# 2757

Delta R.T. 0.01 min

Lab File: VN064205.D

Acq: 20 Oct 2020 19:04

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:164 Resp: 804

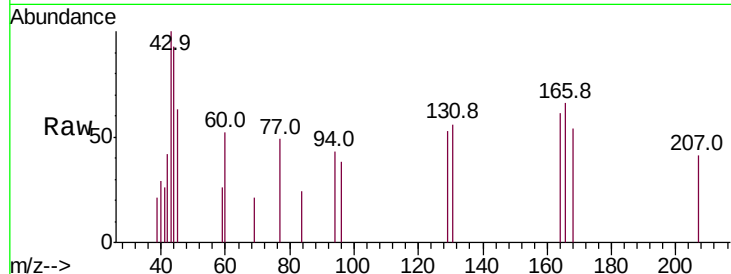
Ion Ratio Lower Upper

164 100

166 109.4 99.2 148.8

129 87.3 82.8 124.2

131 91.6 76.2 114.4

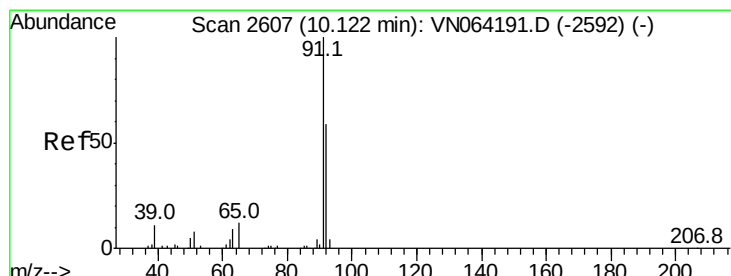
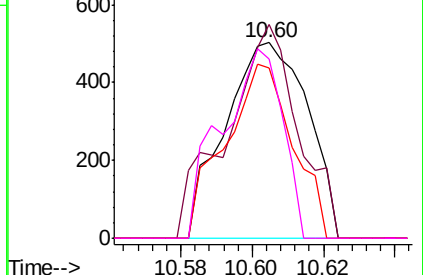
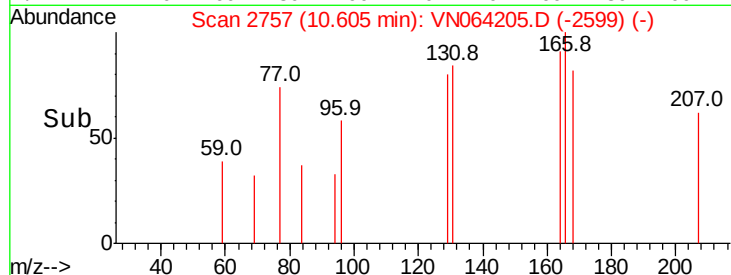


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 0.324 ug/l

RT: 10.12 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN064205.D

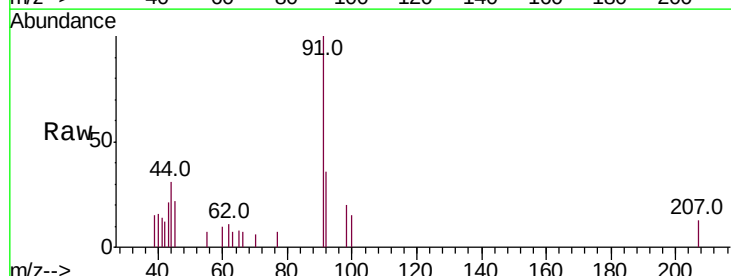
Acq: 20 Oct 2020 19:04

Tgt Ion: 91 Resp: 4358

Ion Ratio Lower Upper

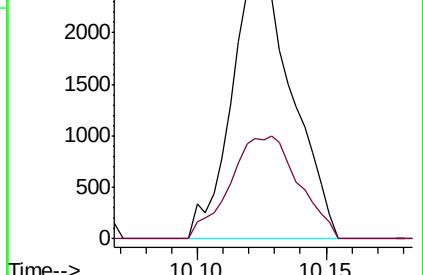
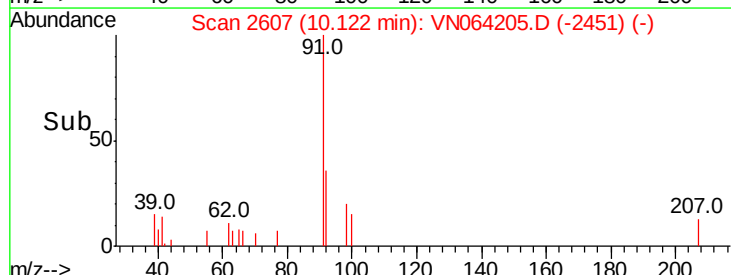
91 100

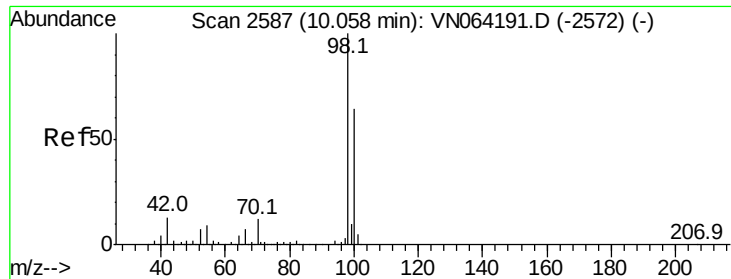
92 42.4 46.8 70.2#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V





#63

Toluene-d8

Concen: 30.269 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064205.D

Acq: 20 Oct 2020 19:04

Instrument :

MSVOA_N

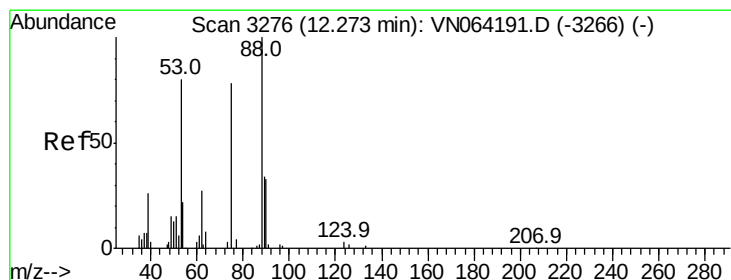
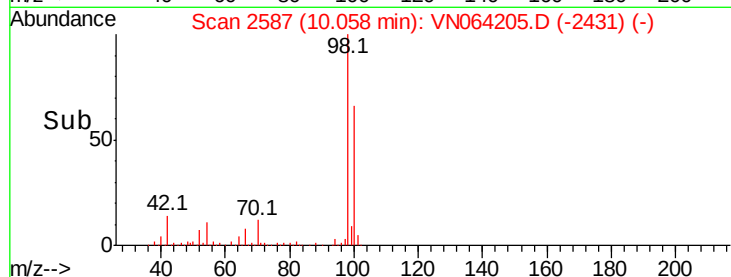
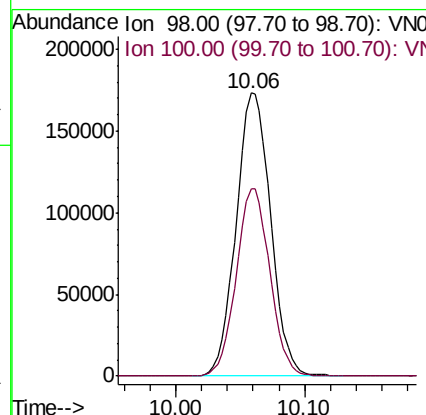
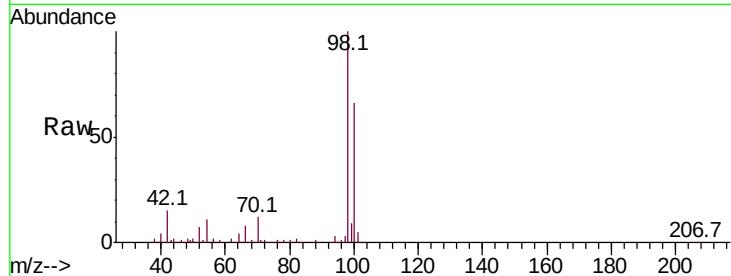
ClientSampleId :

Tot Ion: 98 Resp: 322520

Ion Ratio Lower Upper

98 100

100 64.4 51.4 77.2



#77

t-1,4-Dichloro-2-butene

Concen: 39.422 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064205.D

Acq: 20 Oct 2020 19:04

Tgt Ion: 75 Resp: 64986

Ion Ratio Lower Upper

75 100

53 0.0 51.4 154.2#

89 0.0 23.8 71.5#

