

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101220\
 Data File : VN064082.D
 Acq On : 12 Oct 2020 17:01
 Operator : JC/MD
 Sample : L4315-01
 Misc : 4.60g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 346

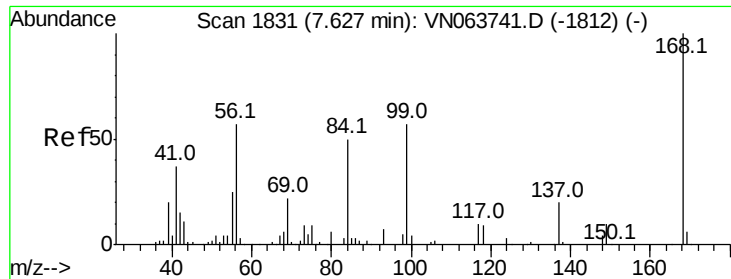
Quant Time: Oct 13 01:08:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 01:46:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	210687	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	383398	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	391068	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	159328	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.98	65	172539	49.57	ug/l	0.00
Spiked Amount			Recovery	=	99.14%	
35) Dibromofluoromethane	7.55	113	129543	48.69	ug/l	0.00
Spiked Amount			Recovery	=	97.38%	
50) Toluene-d8	10.06	98	489994	48.59	ug/l	0.00
Spiked Amount			Recovery	=	97.18%	
62) 4-Bromofluorobenzene	12.38	95	191261	50.45	ug/l	0.00
Spiked Amount			Recovery	=	100.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.68	59	550	1.431	ug/l #	71
17) Carbon Disulfide	3.97	76	1702	0.993	ug/l #	76
18) Methyl Acetate	4.29	43	3620	1.301	ug/l #	68
20) Methylene Chloride	4.50	84	324	0.230	ug/l #	22
25) 2-Butanone	6.80	43	6432	4.234	ug/l	91
31) Cyclohexane	7.62	56	5750	1.423	ug/l #	35
36) 1,1-Dichloropropene	7.62	75	18066	4.651	ug/l #	51
38) Carbon Tetrachloride	7.62	117	23196	5.326	ug/l #	15
74) N-amyl acetate	12.04	43	77	2.230	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	101605	28.929	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	101605	83.320	ug/l #	6
93) 1,2,4-Trichlorobenzene	14.88	180	532	1.921	ug/l #	23
94) Hexachlorobutadiene	14.99	225	661	0.543	ug/l #	48
95) Naphthalene	15.11	128	5227	2.509	ug/l #	92
96) 1,2,3-Trichlorobenzene	15.29	180	822	1.864	ug/l #	46

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. -0.01 min

Lab File: VN064082.D

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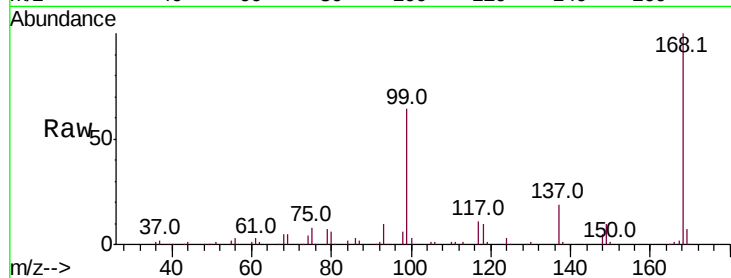
346

Tot Ion:168 Resp: 210687

Ion Ratio Lower Upper

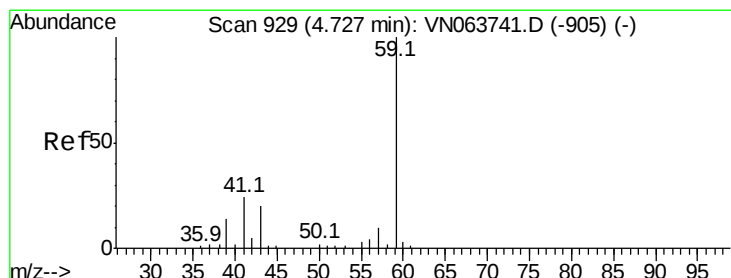
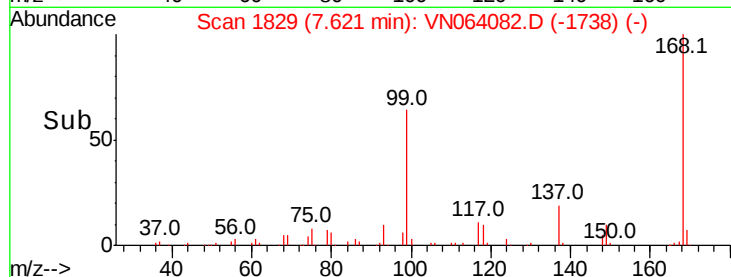
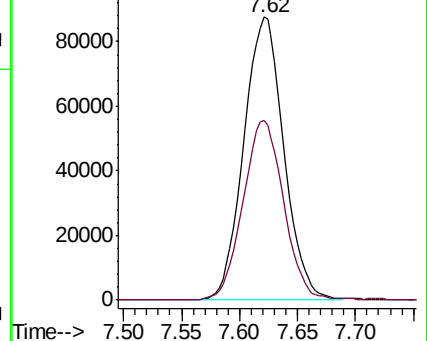
168 100

99 63.6 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 1.431 ug/l

RT: 4.68 min Scan# 915

Delta R.T. -0.04 min

Lab File: VN064082.D

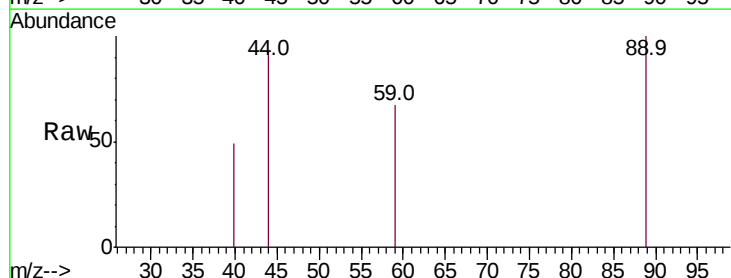
Acq: 12 Oct 2020 17:01

Tgt Ion: 59 Resp: 550

Ion Ratio Lower Upper

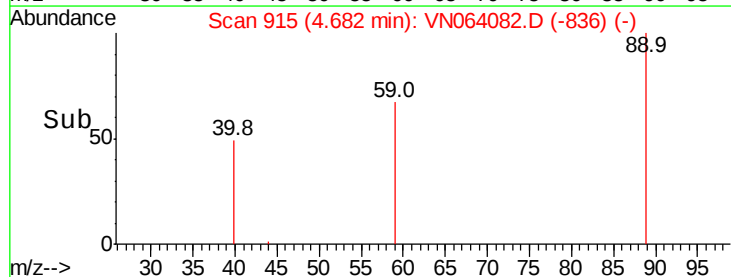
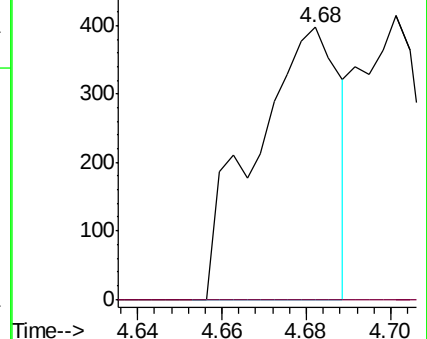
59 100

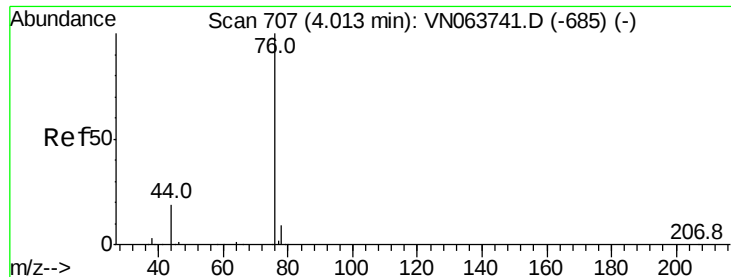
57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#17

Carbon Disulfide

Concen: 0.993 ug/l

RT: 3.97 min Scan# 695

Delta R.T. -0.04 min

Lab File: VN064082.D

Acq: 12 Oct 2020 17:01

Instrument :

MSVOA_N

ClientSampleId :

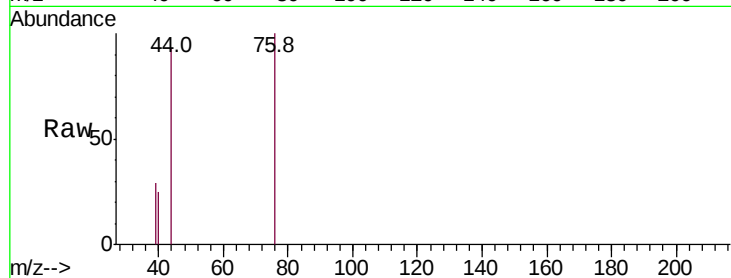
346

Tot Ion: 76 Resp: 1702

Ion Ratio Lower Upper

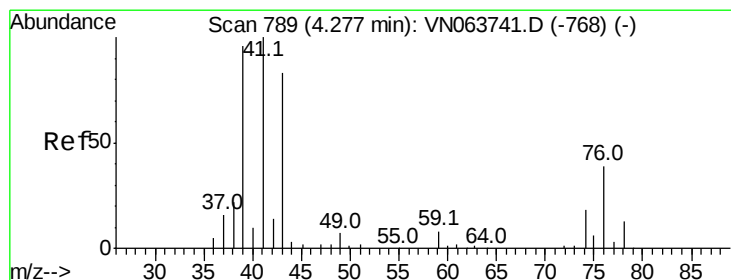
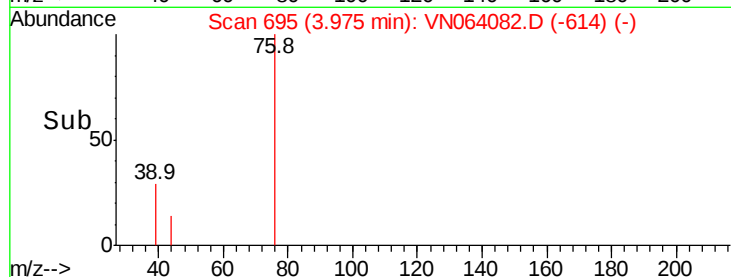
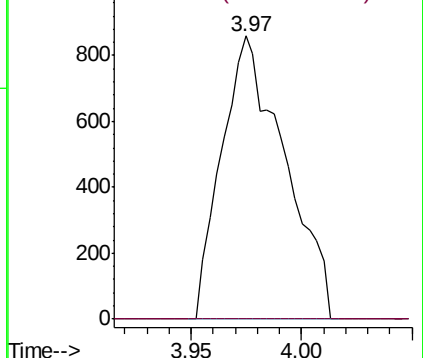
76 100

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: 1.301 ug/l

RT: 4.29 min Scan# 794

Delta R.T. 0.02 min

Lab File: VN064082.D

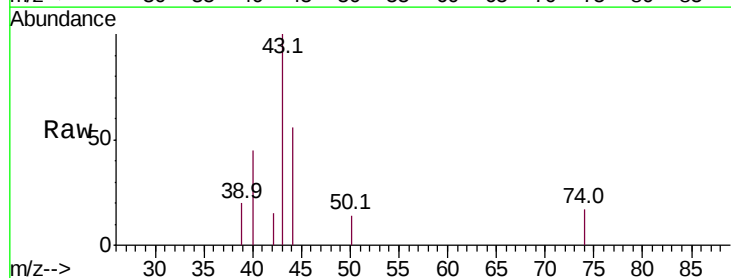
Acq: 12 Oct 2020 17:01

Tgt Ion: 43 Resp: 3620

Ion Ratio Lower Upper

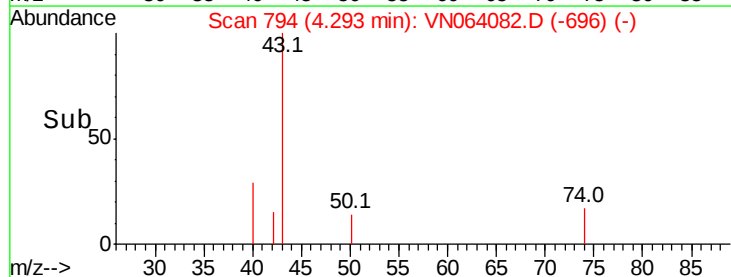
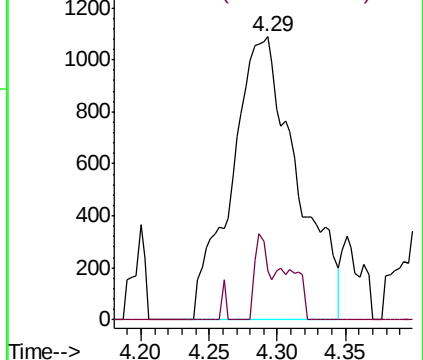
43 100

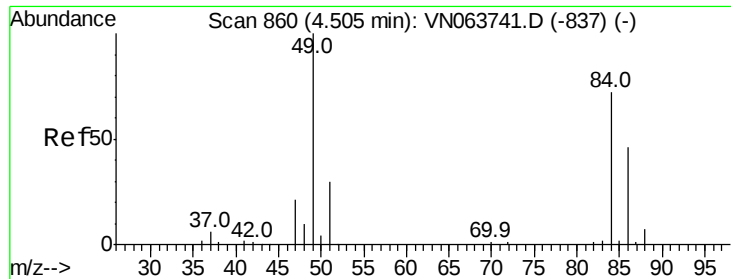
74 6.4 17.4 26.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

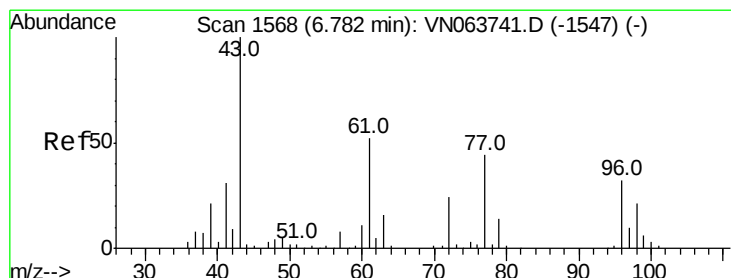
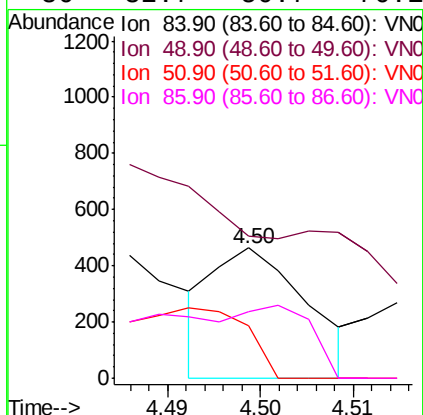
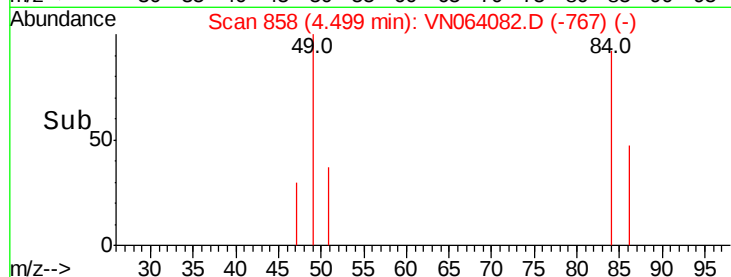
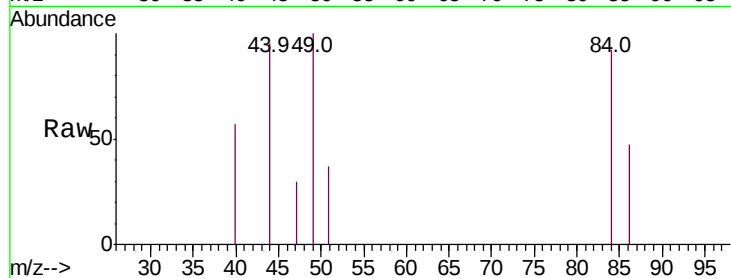




#20
Methvlene Chloride
Concen: 0.230 ug/l
RT: 4.50 min Scan# 858
Delta R.T. -0.01 min
Lab File: VN064082.D
Acq: 12 Oct 2020 17:01

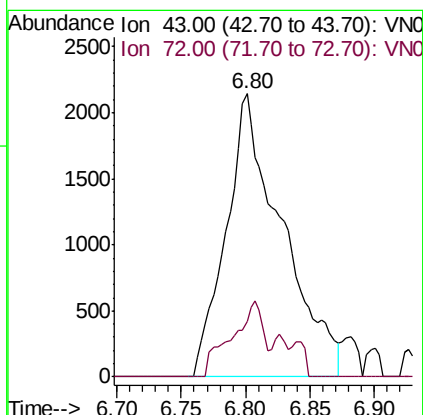
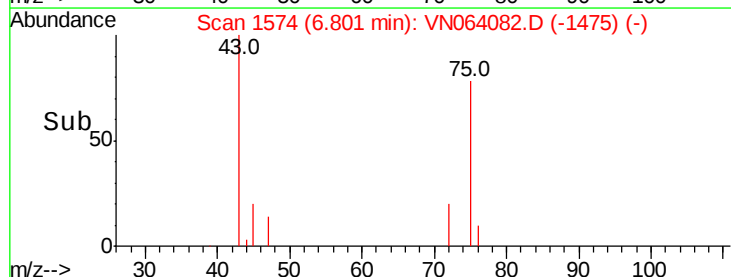
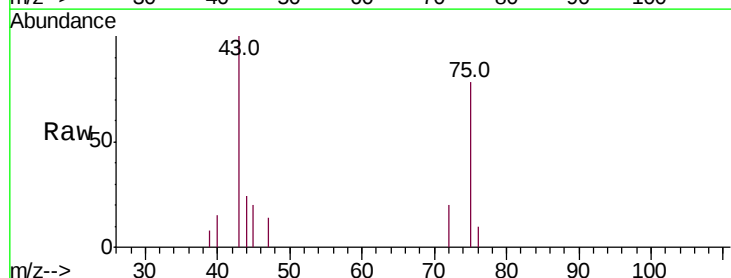
Instrument :
MSVOA_N
ClientSampled :
346

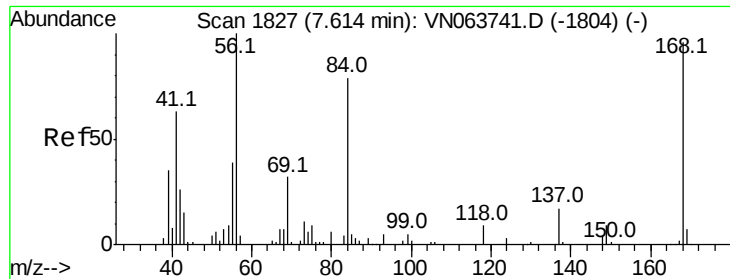
Tot Ion: 84 Resp: 324
Ion Ratio Lower Upper
84 100
49 0.0 110.4 165.6#
51 65.5 33.3 49.9#
86 82.7 50.7 76.1#



#25
2-Butanone
Concen: 4.234 ug/l
RT: 6.80 min Scan# 1574
Delta R.T. 0.02 min
Lab File: VN064082.D
Acq: 12 Oct 2020 17:01

Tgt Ion: 43 Resp: 6432
Ion Ratio Lower Upper
43 100
72 19.6 19.3 28.9

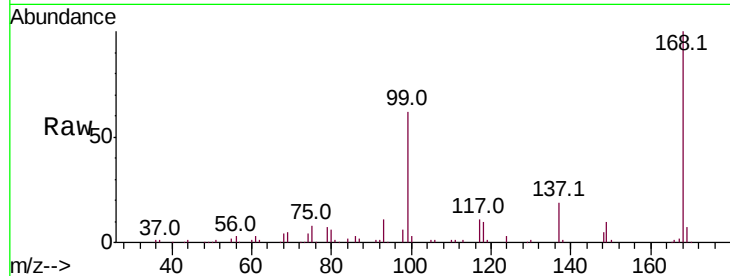




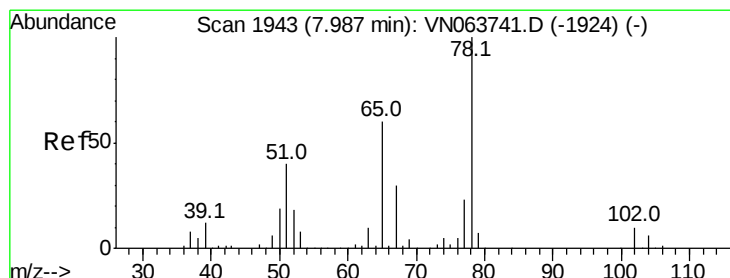
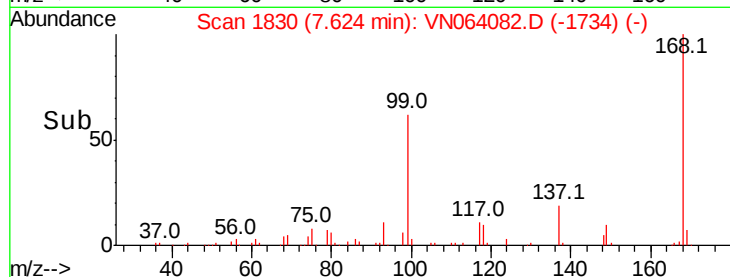
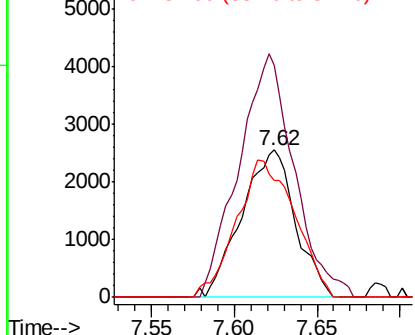
#31
Cyclohexane
Concen: 1.423 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN064082.D
Acq: 12 Oct 2020 17:01

Instrument :
MSVOA_N
ClientSampled :
346

Tot Ion: 56 Resp: 5750
Ion Ratio Lower Upper
56 100
69 157.6 25.4 38.2#
84 79.9 63.3 94.9

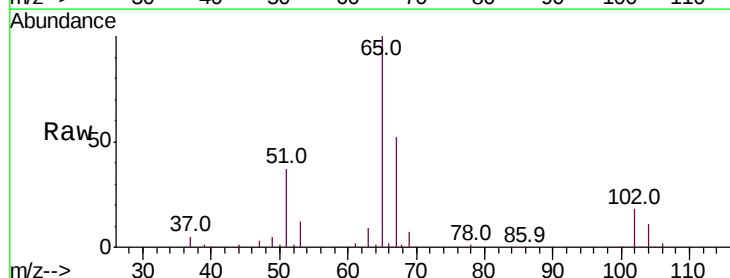


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

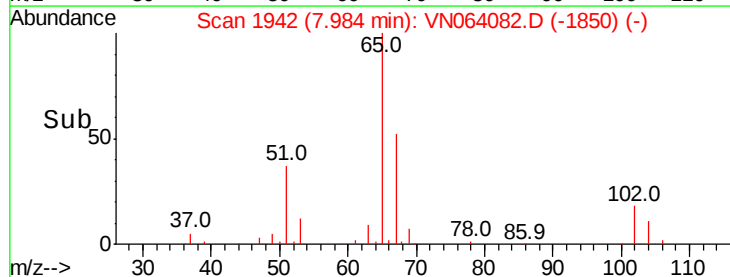
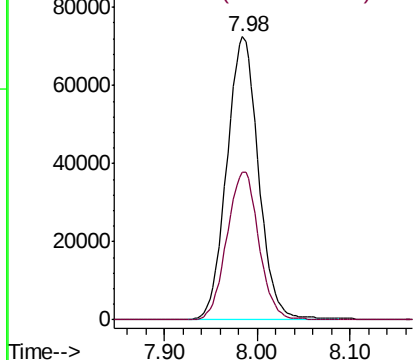


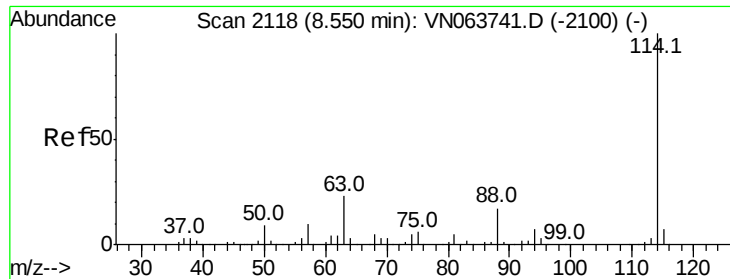
#33
1,2-Dichloroethane-d4
Concen: 49.570 ug/l
RT: 7.98 min Scan# 1942
Delta R.T. -0.00 min
Lab File: VN064082.D
Acq: 12 Oct 2020 17:01

Tgt Ion: 65 Resp: 172539
Ion Ratio Lower Upper
65 100
67 52.3 0.0 99.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

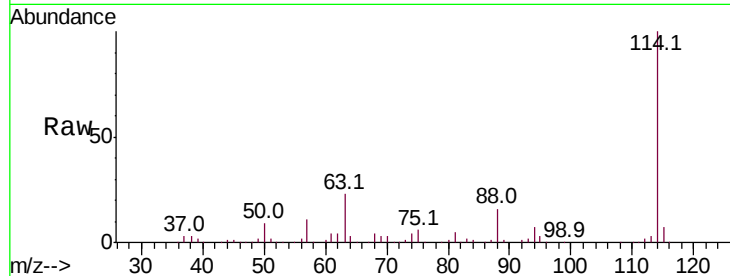




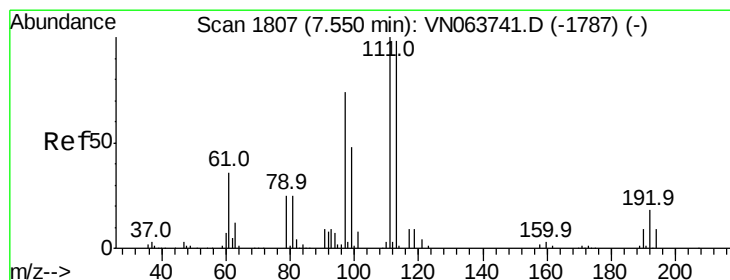
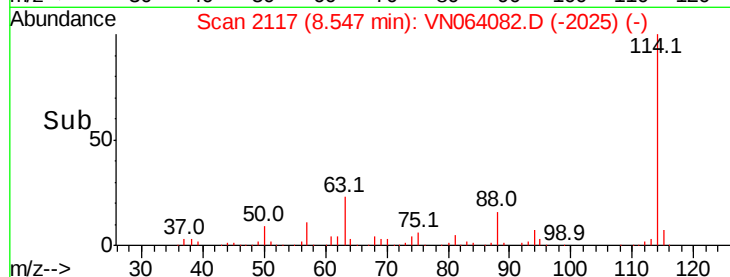
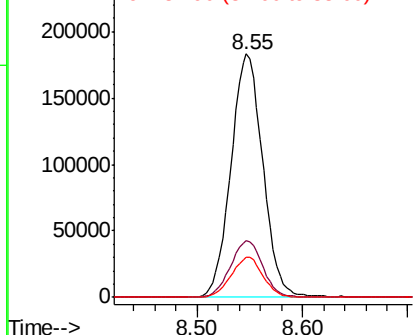
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2117
 Delta R.T. -0.00 min
 Lab File: VN064082.D
 Acq: 12 Oct 2020 17:01

Instrument :
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 ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
114	100		
63	23.1	0.0	45.0
88	16.4	0.0	34.0

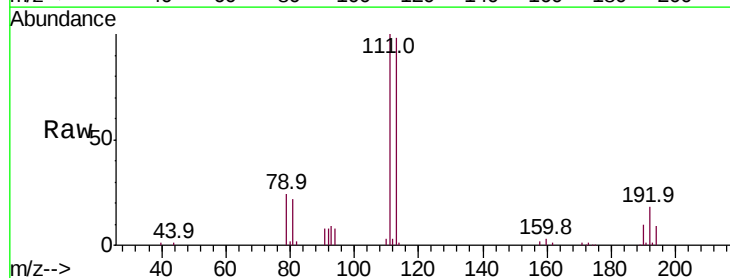


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

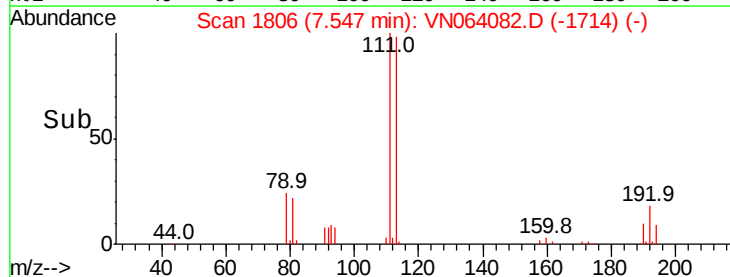
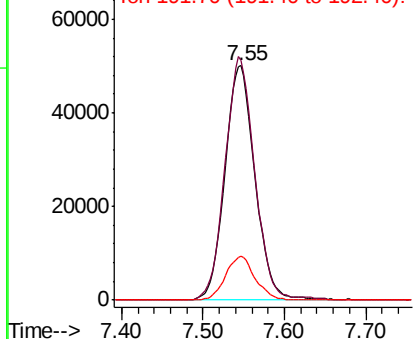


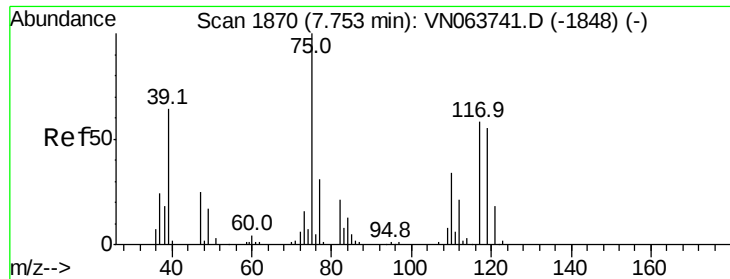
#35
 Dibromofluoromethane
 Concen: 48.695 ug/l
 RT: 7.55 min Scan# 1806
 Delta R.T. -0.00 min
 Lab File: VN064082.D
 Acq: 12 Oct 2020 17:01

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.8	122.8
192	18.2	14.2	21.2



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

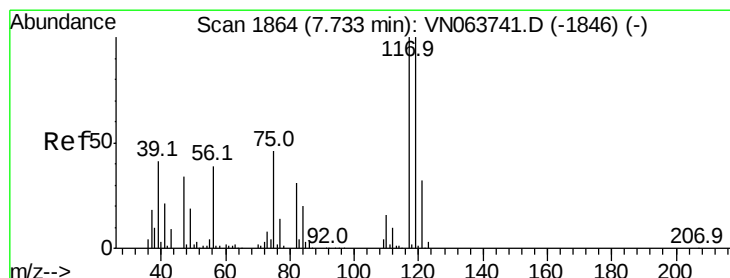
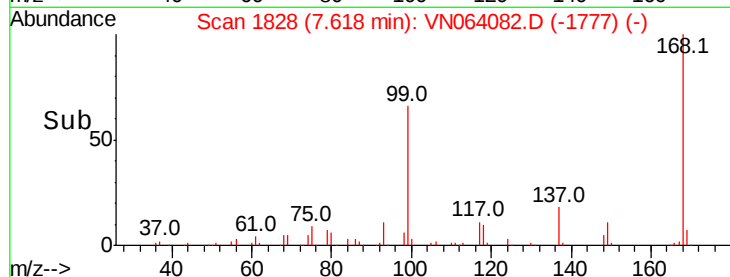
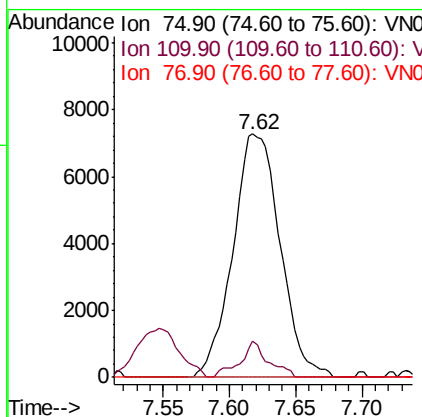
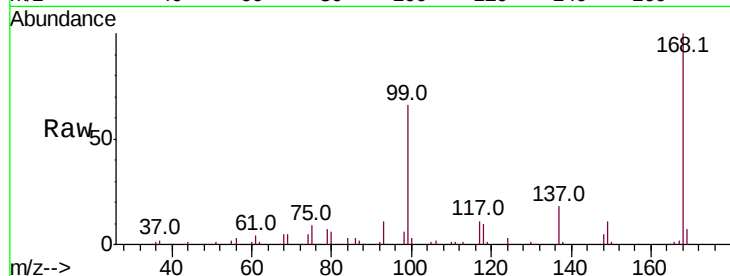




#36
 1,1-Dichloropropene
 Concen: 4.651 ug/l
 RT: 7.62 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN064082.D
 Acq: 12 Oct 2020 17:01

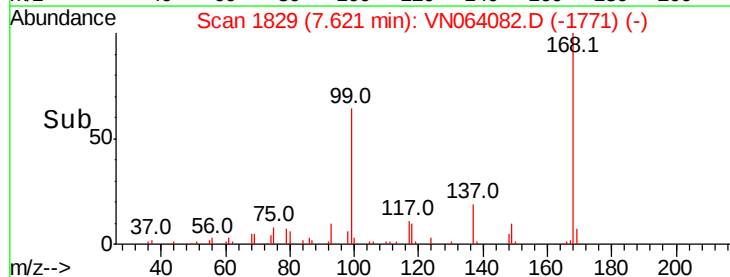
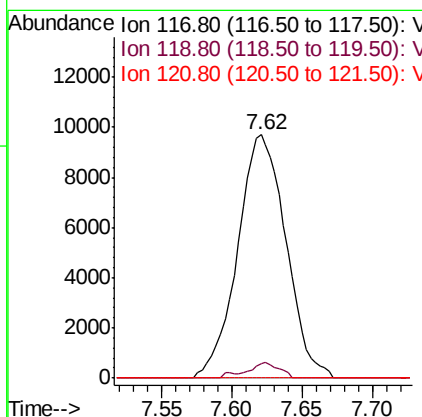
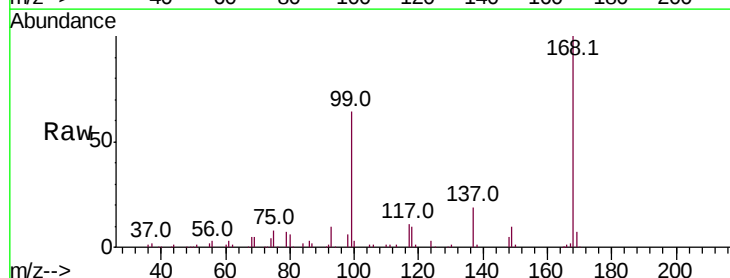
Instrument :
 MSVOA_N
 ClientSampleId :
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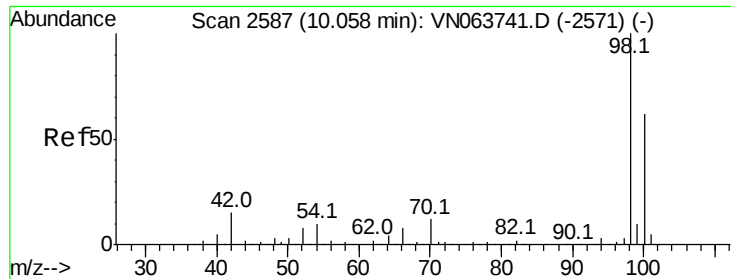
Tot Ion: 75 Resp: 18066
 Ion Ratio Lower Upper
 75 100
 110 8.9 16.9 50.6#
 77 0.0 24.5 36.7#



#38
 Carbon Tetrachloride
 Concen: 5.326 ug/l
 RT: 7.62 min Scan# 1829
 Delta R.T. -0.11 min
 Lab File: VN064082.D
 Acq: 12 Oct 2020 17:01

Tgt Ion: 117 Resp: 23196
 Ion Ratio Lower Upper
 117 100
 119 6.0 80.1 120.1#
 121 0.0 25.7 38.5#





#50

Toluene-d8

Concen: 48.587 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064082.D

Acq: 12 Oct 2020 17:01

Instrument :

MSVOA_N

ClientSampled :

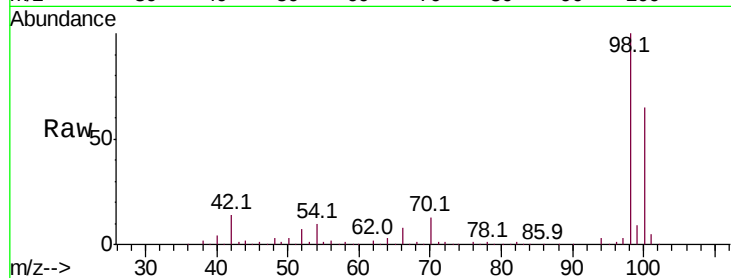
346

Tot Ion: 98 Resp: 489994

Ion Ratio Lower Upper

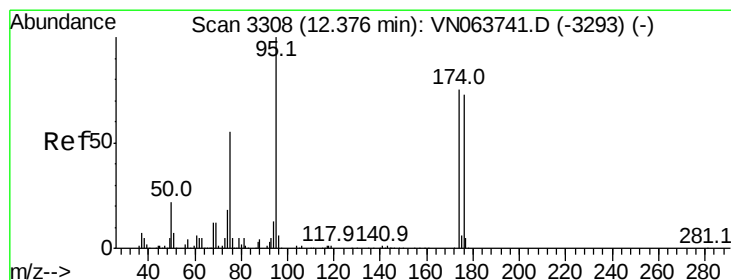
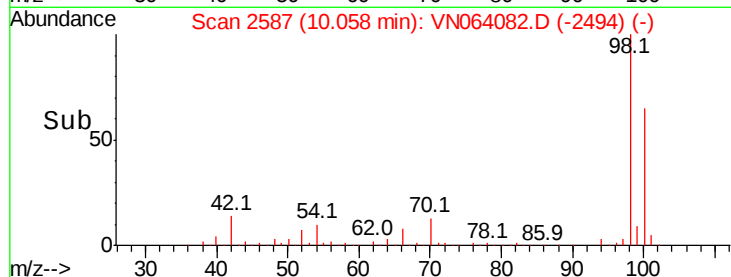
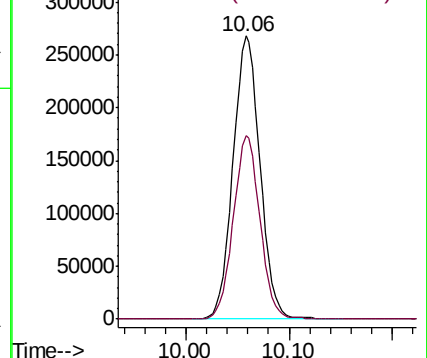
98 100

100 64.0 49.8 74.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#62

4-Bromofluorobenzene

Concen: 50.451 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064082.D

Acq: 12 Oct 2020 17:01

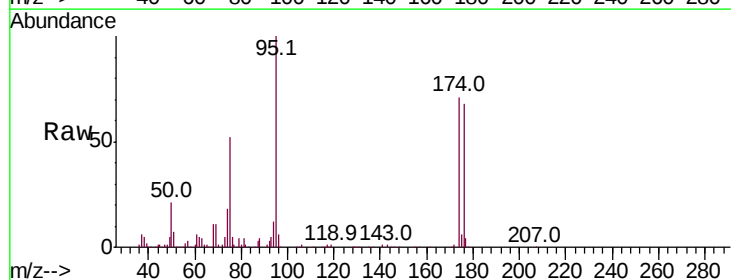
Tgt Ion: 95 Resp: 191261

Ion Ratio Lower Upper

95 100

174 73.3 0.0 150.6

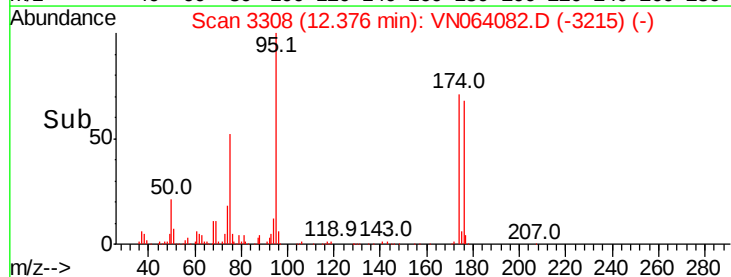
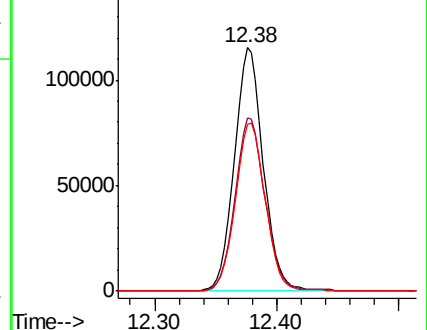
176 71.2 0.0 145.4

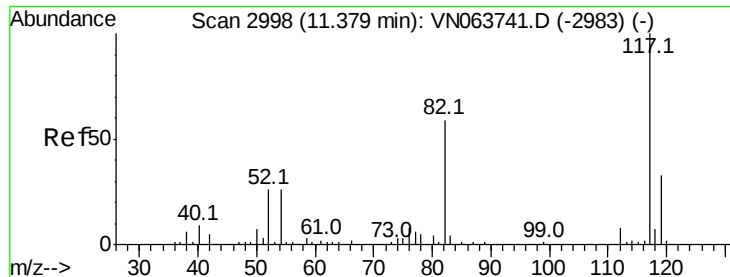


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

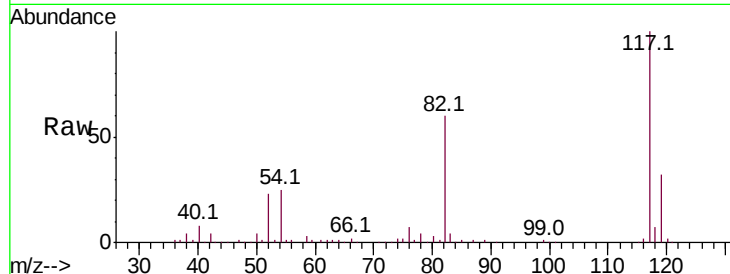




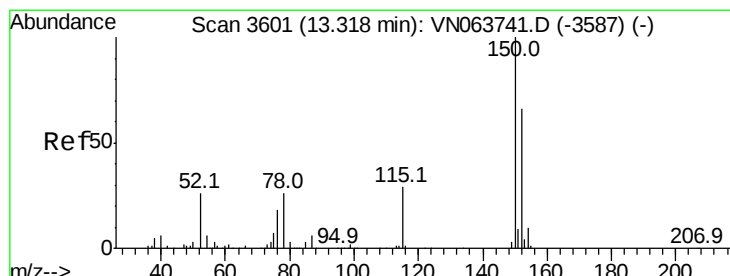
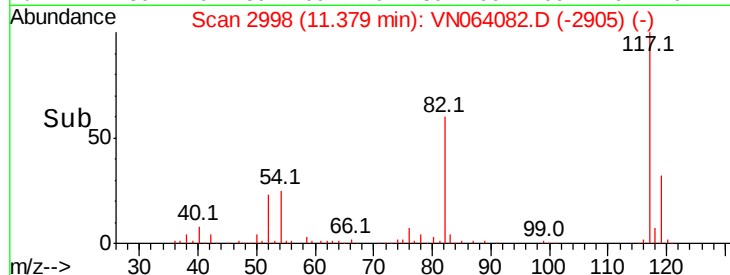
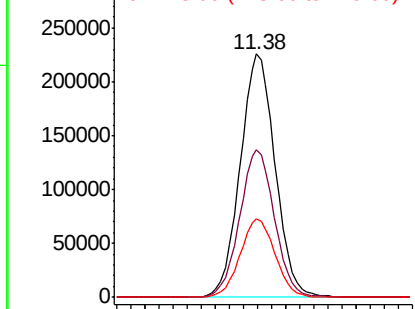
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064082.D
Acq: 12 Oct 2020 17:01

Instrument :
MSVOA_N
ClientSampleId :
346

Tot Ion:117 Resp: 391068
Ion Ratio Lower Upper
117 100
82 60.4 47.4 71.2
119 32.4 26.4 39.6

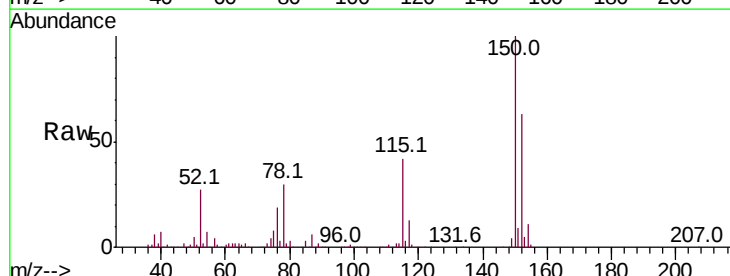


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

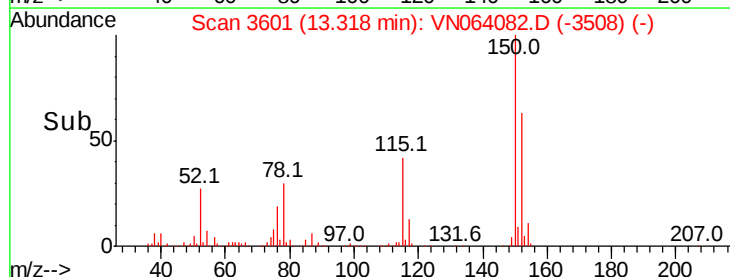
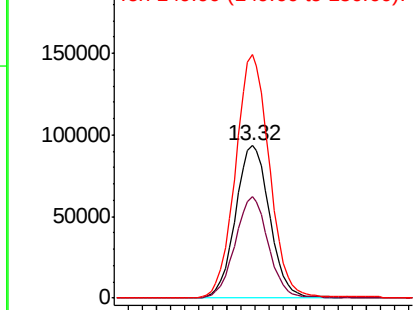


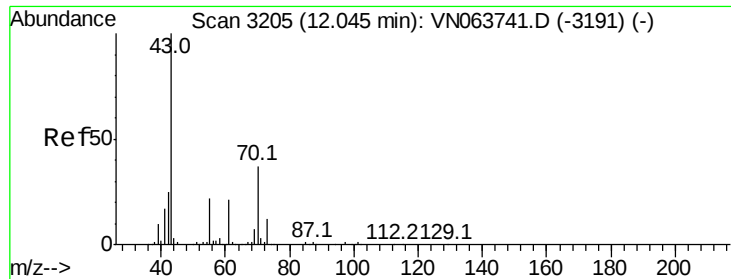
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN064082.D
Acq: 12 Oct 2020 17:01

Tgt Ion:152 Resp: 159328
Ion Ratio Lower Upper
152 100
115 64.3 31.3 93.8
150 157.6 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-amvl acetate

Concen: 2.230 ug/l

RT: 12.04 min Scan# 3204

Delta R.T. -0.00 min

Lab File: VN064082.D

Acq: 12 Oct 2020 17:01

Instrument :

MSVOA_N

ClientSampleId :

346

Tot Ion: 43 Resp: 77

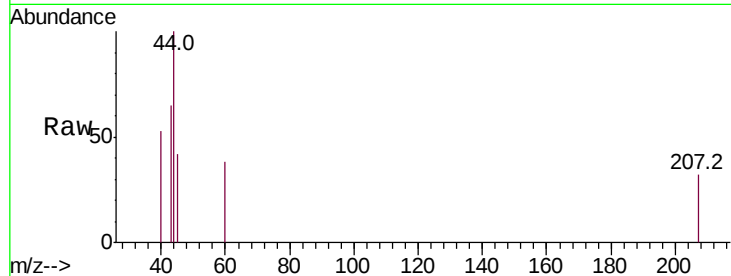
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 0.0 17.9 26.9#

61 0.0 17.0 25.4#

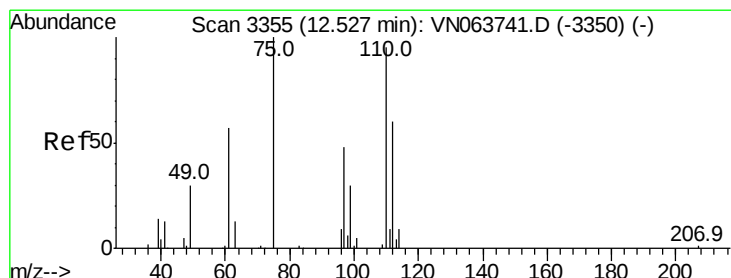
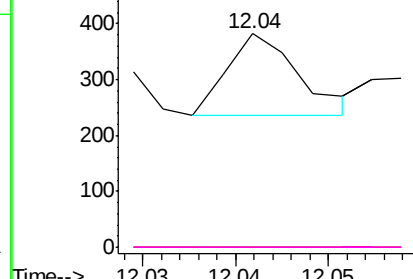
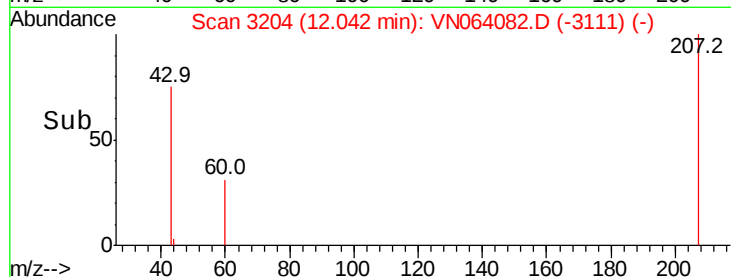


Abundance Ion 43.00 (42.70 to 43.70): VN063741.D (-3191) (-)

Ion 70.00 (69.70 to 70.70): VN063741.D (-3191) (-)

Ion 55.00 (54.70 to 55.70): VN063741.D (-3191) (-)

Ion 61.00 (60.70 to 61.70): VN063741.D (-3191) (-)



#76

1,2,3-Trichloropropane

Concen: 28.929 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064082.D

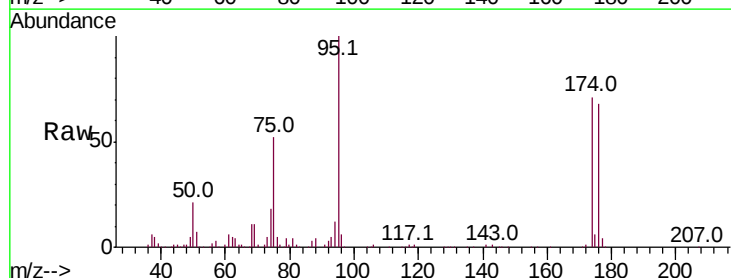
Acq: 12 Oct 2020 17:01

Tgt Ion: 75 Resp: 101605

Ion Ratio Lower Upper

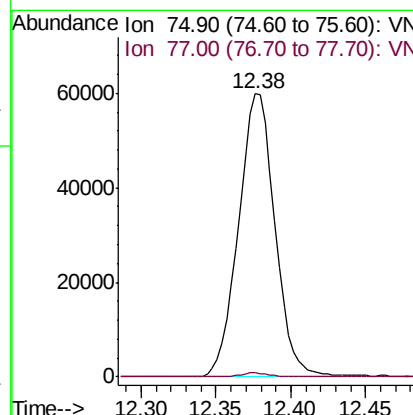
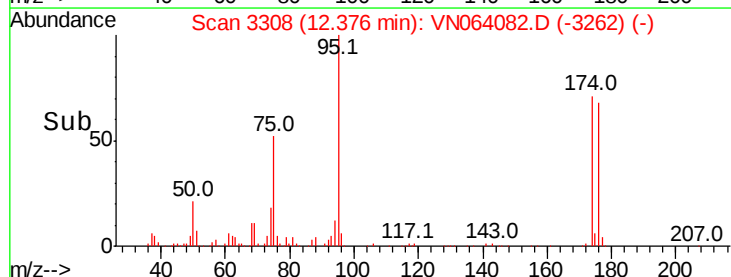
75 100

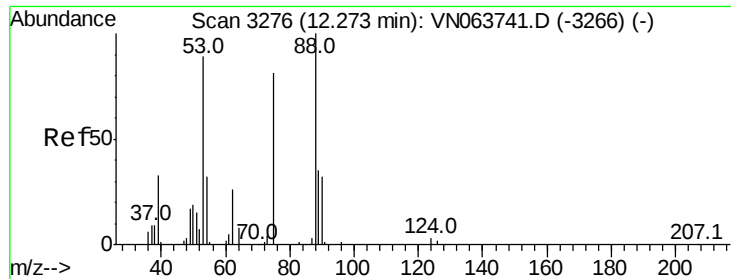
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN063741.D (-3350) (-)

Ion 77.00 (76.70 to 77.70): VN063741.D (-3350) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 83.320 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064082.D

Acq: 12 Oct 2020 17:01

Instrument :

MSVOA_N

ClientSampled :

346

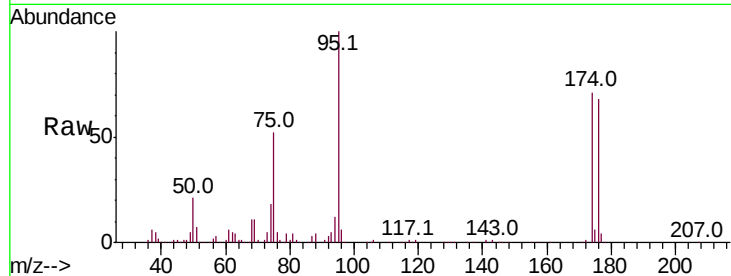
Tot Ion: 75 Resp: 101605

Ion Ratio Lower Upper

75 100

53 0.2 88.2 132.2#

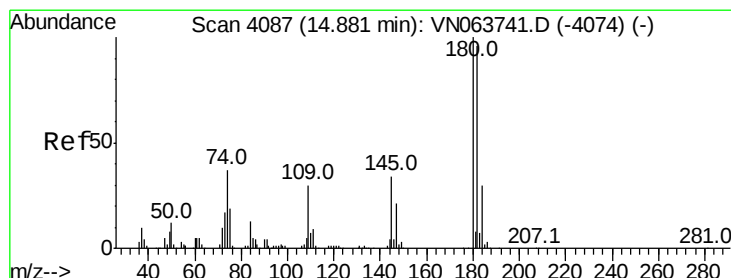
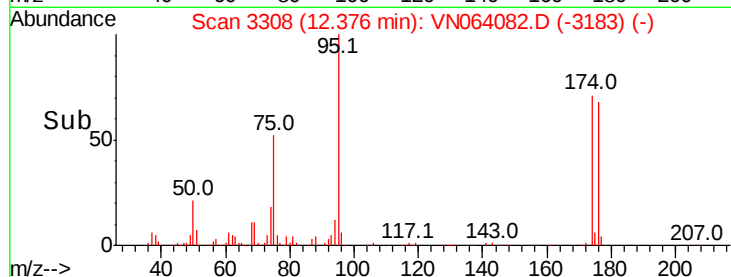
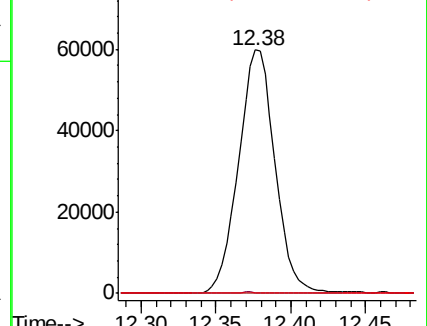
89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN063741.D (-3266) (-)

Ion 53.00 (52.70 to 53.70): VN063741.D (-3266) (-)

Ion 88.90 (88.60 to 89.60): VN063741.D (-3266) (-)



#93

1,2,4-Trichlorobenzene

Concen: 1.921 ug/l

RT: 14.88 min Scan# 4088

Delta R.T. 0.00 min

Lab File: VN064082.D

Acq: 12 Oct 2020 17:01

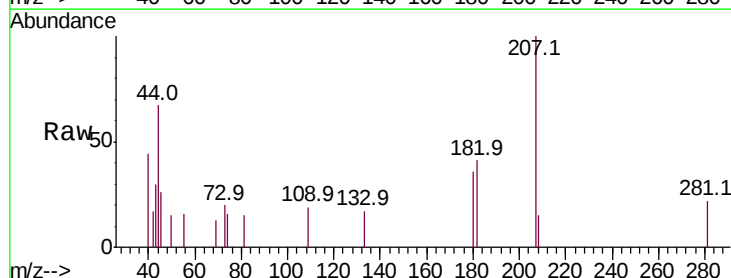
Tgt Ion:180 Resp: 532

Ion Ratio Lower Upper

180 100

182 181.6 48.2 144.6#

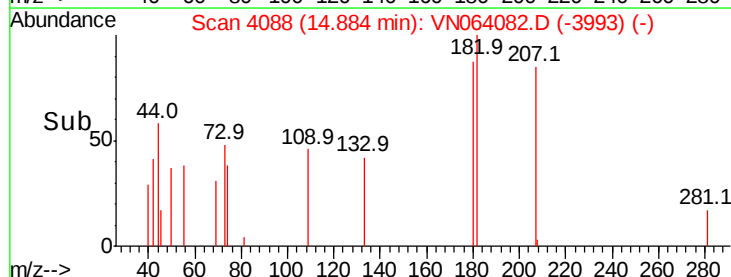
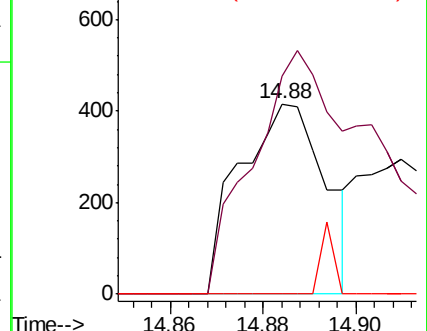
145 5.6 17.1 51.2#

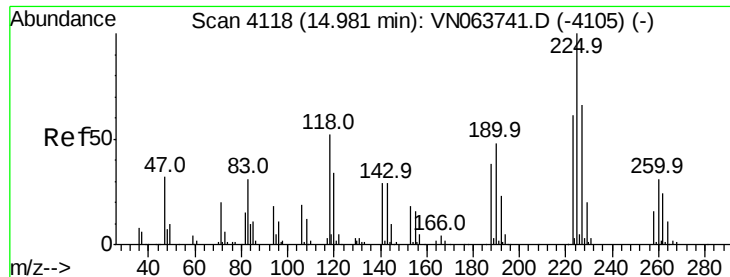


Abundance Ion 179.80 (179.50 to 180.50): VN063741.D (-4074) (-)

Ion 181.80 (181.50 to 182.50): VN063741.D (-4074) (-)

Ion 144.80 (144.50 to 145.50): VN063741.D (-4074) (-)





#94

Hexachlorobutadiene

Concen: 0.543 ug/l

RT: 14.99 min Scan# 4120

Delta R.T. 0.01 min

Lab File: VN064082.D

Acq: 12 Oct 2020 17:01

Instrument :

MSVOA_N

ClientSampled :

346

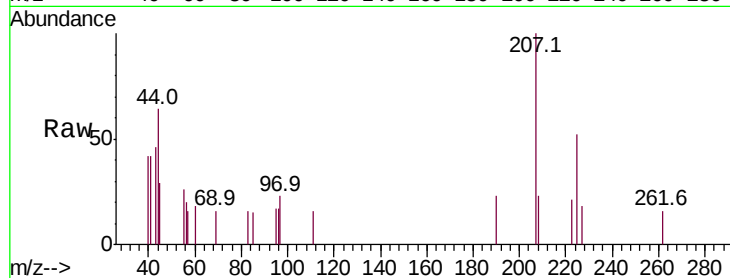
Tot Ion:225 Resp: 661

Ion Ratio Lower Upper

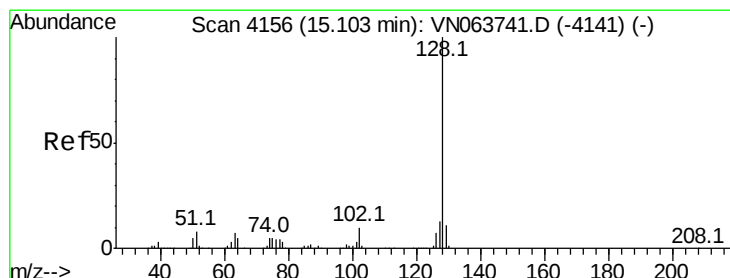
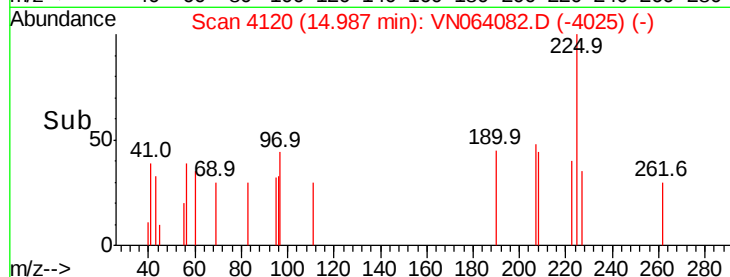
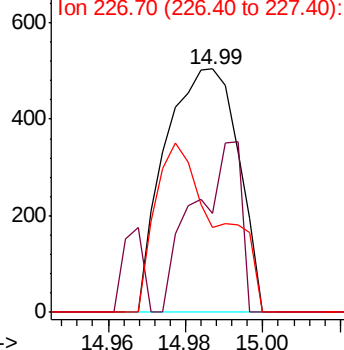
225 100

223 44.6 30.3 91.0

227 0.0 31.9 95.5#



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 2.509 ug/l

RT: 15.11 min Scan# 4159

Delta R.T. 0.01 min

Lab File: VN064082.D

Acq: 12 Oct 2020 17:01

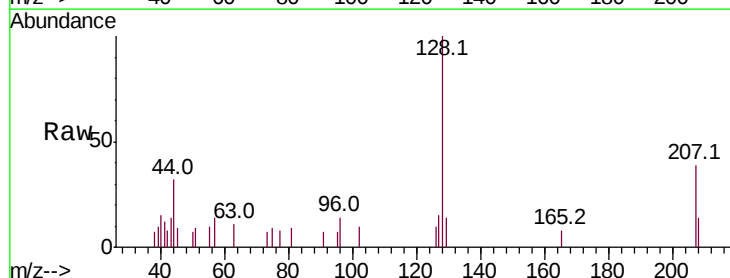
Tgt Ion:128 Resp: 5227

Ion Ratio Lower Upper

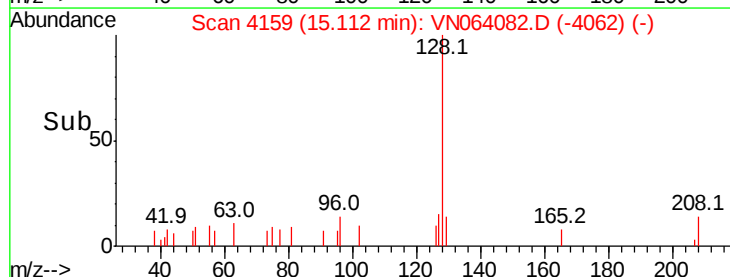
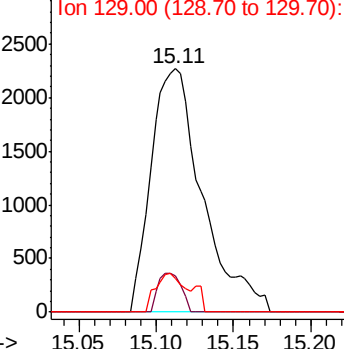
128 100

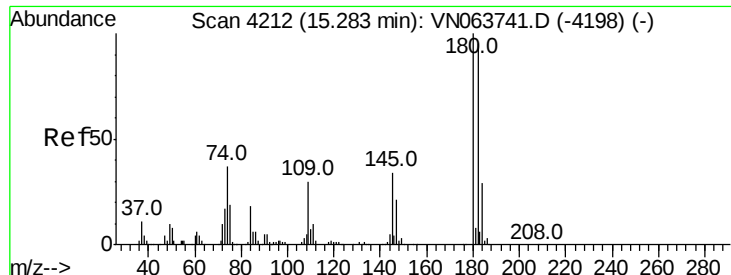
127 7.3 10.5 15.7#

129 10.6 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 1.864 ug/l
 RT: 15.29 min Scan# 4214
 Delta R.T. 0.01 min
 Lab File: VN064082.D
 Acq: 12 Oct 2020 17:01

Instrument :
 MSVOA_N
 ClientSampleId :
 346

Tot Ion:180 Resp: 822
 Ion Ratio Lower Upper
 180 100
 182 27.9 47.9 143.6#
 145 27.9 17.2 51.5

