

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092520\
 Data File : VN063687.D
 Acq On : 25 Sep 2020 18:43
 Operator : JC/MD
 Sample : L4119-17DL 4X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TT101D1-20200922DL

Quant Time: Sep 28 02:04:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	191800	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	350453	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	369986	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	157479	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	164467	50.37	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.74%	
35) Dibromofluoromethane	7.55	113	117882	48.59	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	97.18%	
50) Toluene-d8	10.06	98	459231	50.34	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.68%	
62) 4-Bromofluorobenzene	12.38	95	187437	56.05	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	112.10%	

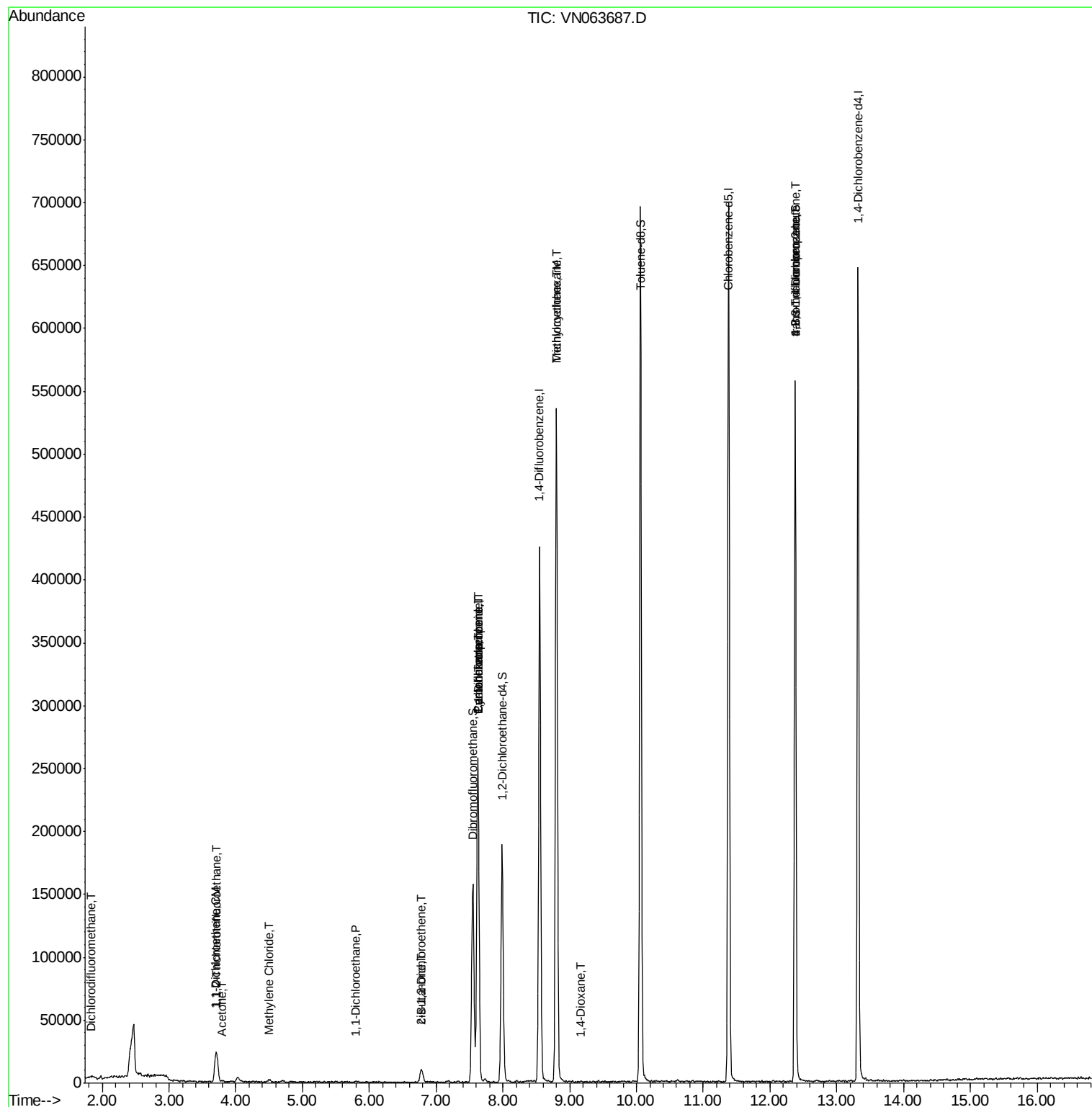
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.83	85	637	0.293	ug/l #	43
9) 1,1,2-Trichlorotrifluoroet	3.71	101	11504	5.383	ug/l	95
12) 1,1-Dichloroethene	3.69	96	4517	2.087	ug/l	94
16) Acetone	3.78	43	1152	1.098	ug/l #	69
20) Methylene Chloride	4.49	84	765	0.288	ug/l #	57
24) 1,1-Dichloroethane	5.80	63	1359	0.285	ug/l #	84
25) 2-Butanone	6.79	43	386	0.239	ug/l #	51
27) cis-1,2-Dichloroethene	6.78	96	765	0.282	ug/l #	1
31) Cyclohexane	7.62	56	5889	1.306	ug/l #	46
36) 1,1-Dichloropropene	7.63	75	17630	4.722	ug/l #	51
38) Carbon Tetrachloride	7.63	117	21392	5.613	ug/l #	18
39) Methylcyclohexane	8.80	83	2736	0.675	ug/l #	1
44) Trichloroethene	8.80	130	178208	68.938	ug/l	100
49) 1,4-Dioxane	9.16	88	152	3.290	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	104366	26.775	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	104366	73.408	ug/l #	7

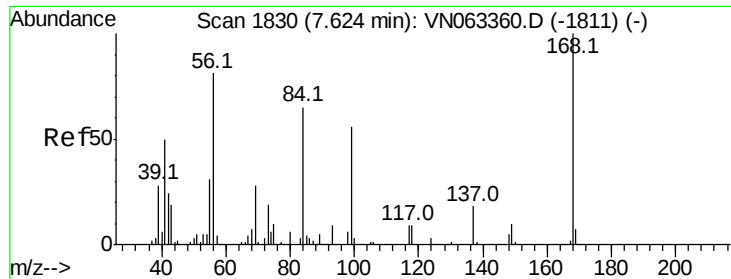
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Sep 16 13:05:20 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN063687.D

Acq: 25 Sep 2020 18:43

Instrument :

MSVOA_N

ClientSampleId :

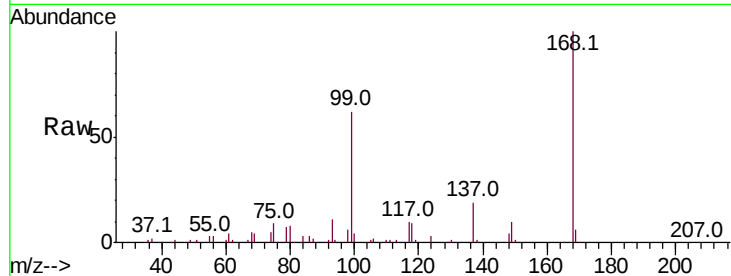
TT101D1-20200922DL

Tot Ion:168 Resp: 191800

Ion Ratio Lower Upper

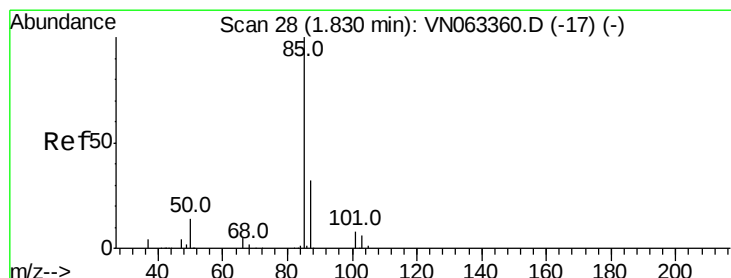
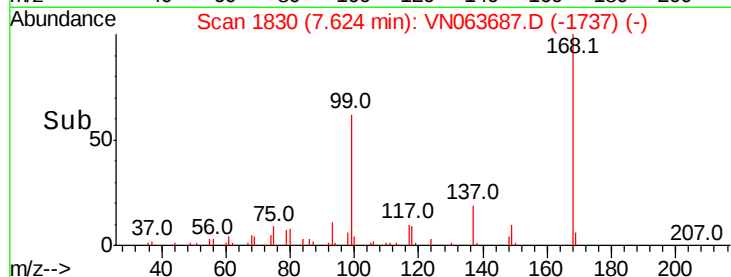
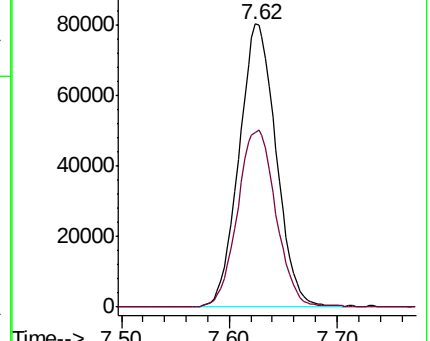
168 100

99 61.6 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 0.293 ug/l

RT: 1.83 min Scan# 28

Delta R.T. -0.00 min

Lab File: VN063687.D

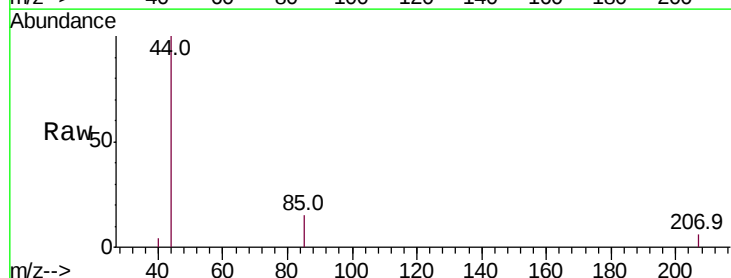
Acq: 25 Sep 2020 18:43

Tgt Ion: 85 Resp: 637

Ion Ratio Lower Upper

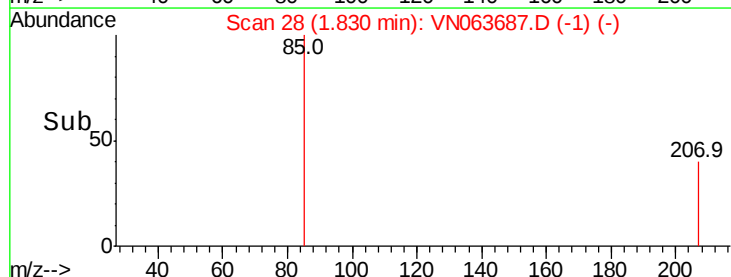
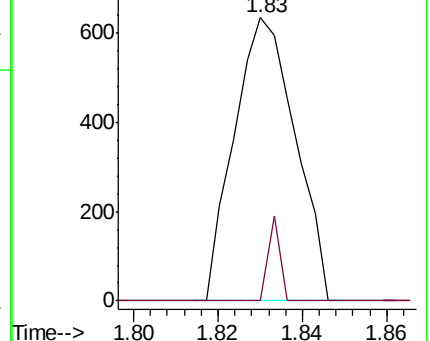
85 100

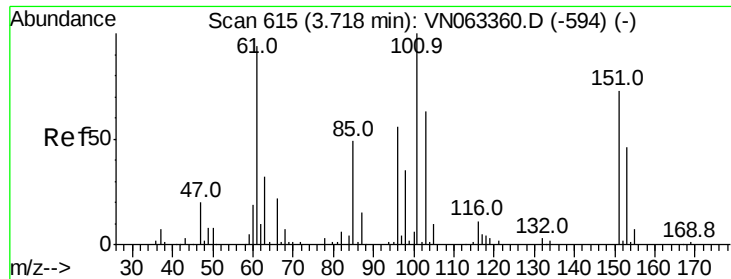
87 0.0 15.9 47.6#



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.383 ug/l

RT: 3.71 min Scan# 614

Delta R.T. -0.00 min

Lab File: VN063687.D

Acq: 25 Sep 2020 18:43

Instrument :

MSVOA_N

ClientSampleId :

TT101D1-20200922DL

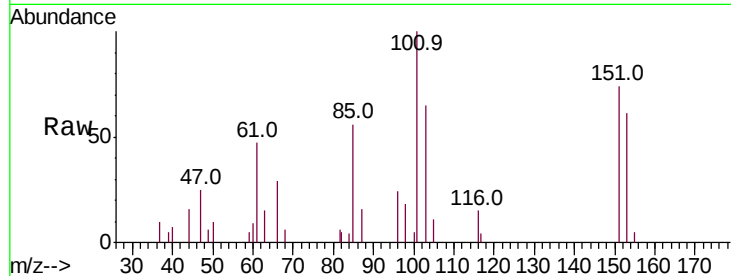
Tot Ion:101 Resp: 11504

Ion Ratio Lower Upper

101 100

85 52.7 37.7 56.5

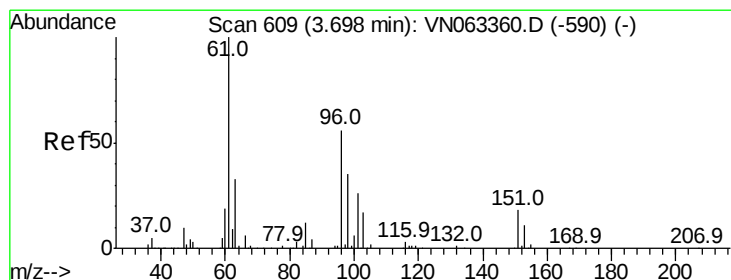
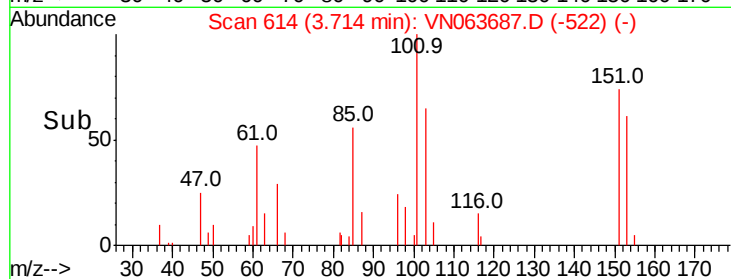
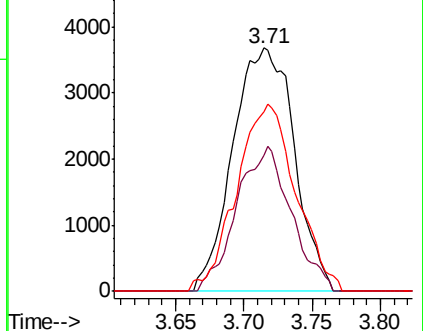
151 74.3 57.7 86.5



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VNO

Ion 150.80 (150.50 to 151.50): V



#12

1,1-Dichloroethene

Concen: 2.087 ug/l

RT: 3.69 min Scan# 607

Delta R.T. -0.01 min

Lab File: VN063687.D

Acq: 25 Sep 2020 18:43

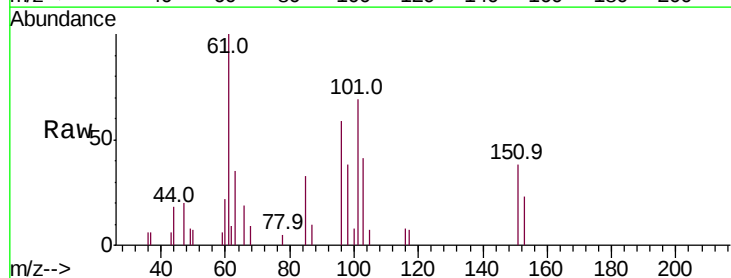
Tgt Ion: 96 Resp: 4517

Ion Ratio Lower Upper

96 100

61 168.6 143.4 215.2

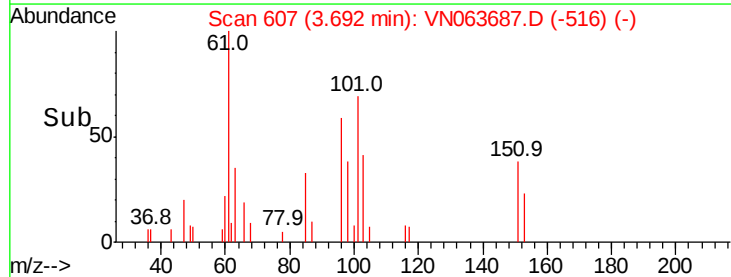
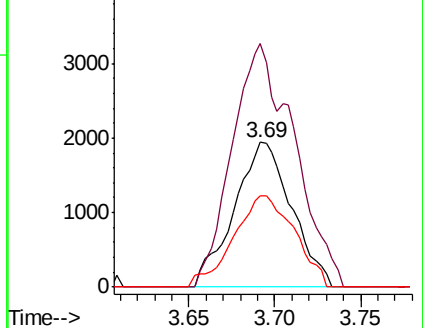
98 63.4 50.6 76.0

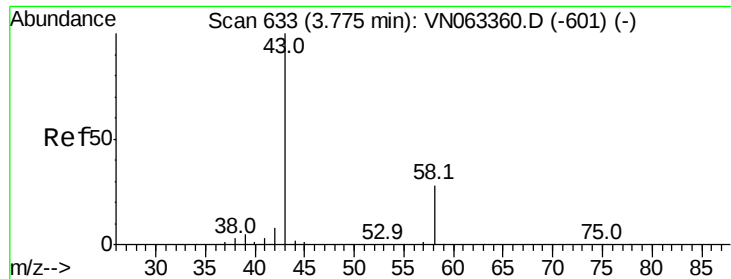


Abundance Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO





#16

Acetone

Concen: 1.098 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063687.D

Acq: 25 Sep 2020 18:43

Instrument :

MSVOA_N

ClientSampleId :

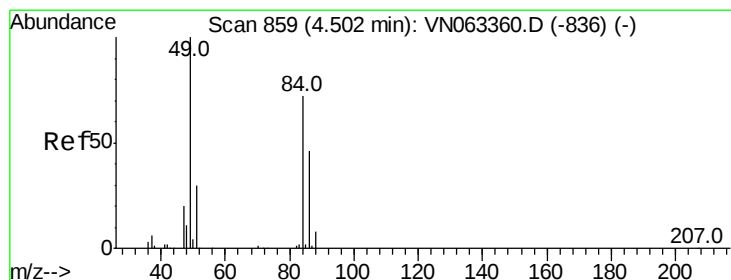
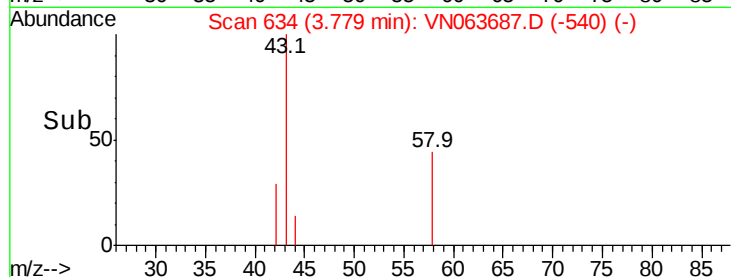
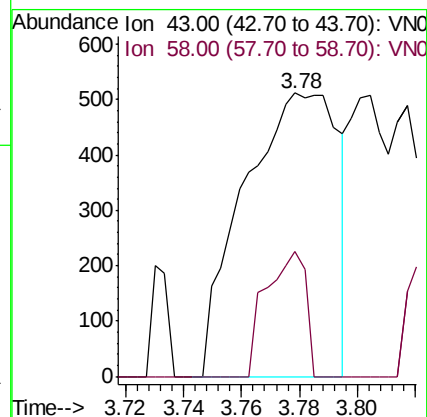
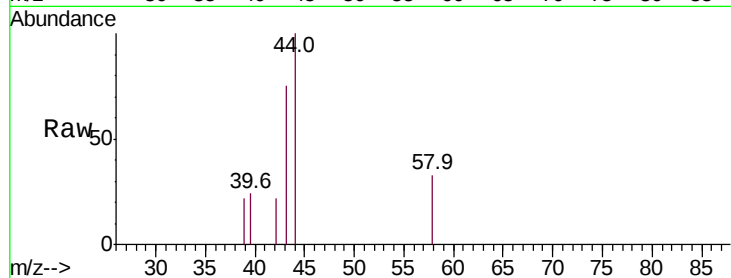
TT101D1-20200922DL

Tot Ion: 43 Resp: 1152

Ion Ratio Lower Upper

43 100

58 43.9 22.3 33.5#



#20

Methylene Chloride

Concen: 0.288 ug/l

RT: 4.49 min Scan# 856

Delta R.T. -0.01 min

Lab File: VN063687.D

Acq: 25 Sep 2020 18:43

Tgt Ion: 84 Resp: 765

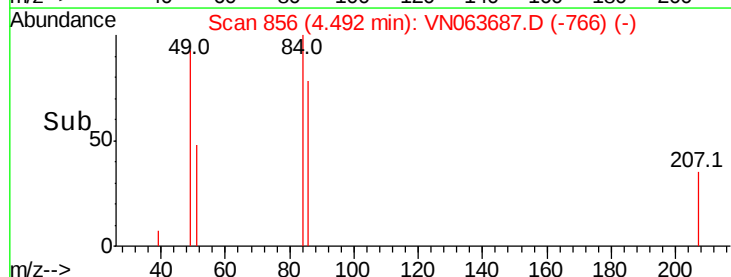
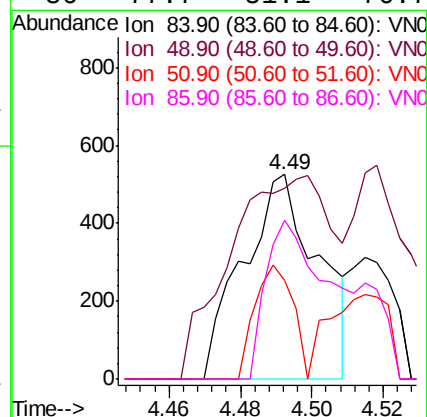
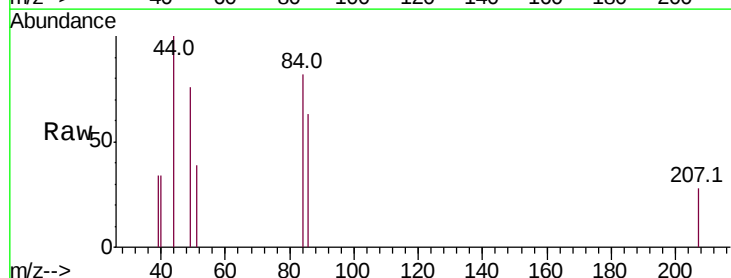
Ion Ratio Lower Upper

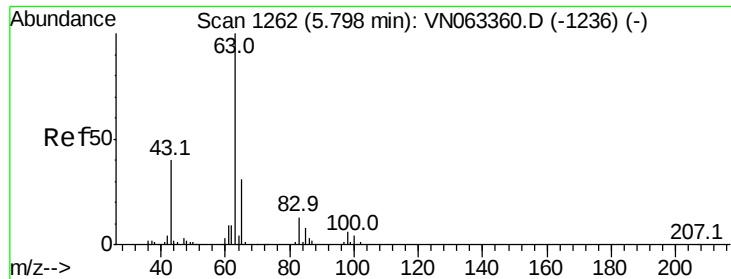
84 100

49 60.8 110.7 166.1#

51 48.2 32.9 49.3

86 77.7 51.1 76.7#





#24

1,1-Dichloroethane

Concen: 0.285 ug/l

RT: 5.80 min Scan# 1263

Delta R.T. 0.00 min

Lab File: VN063687.D

Acq: 25 Sep 2020 18:43

Instrument :

MSVOA_N

ClientSampleId :

TT101D1-20200922DL

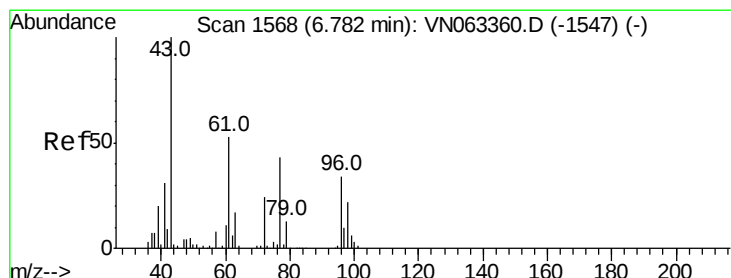
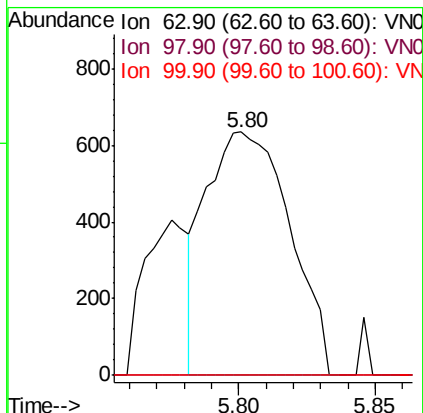
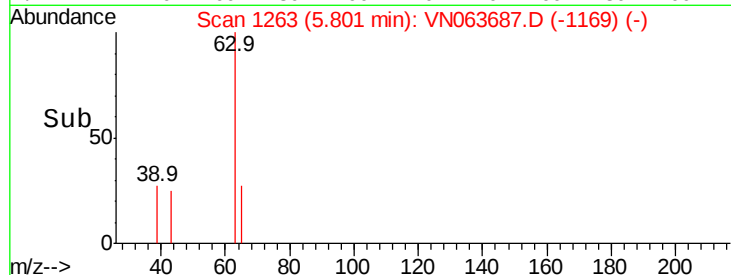
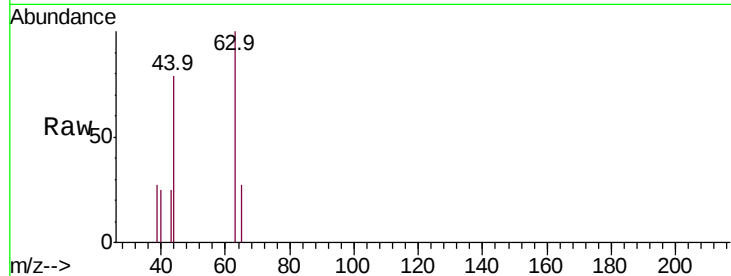
Tot Ion: 63 Resp: 1359

Ion Ratio Lower Upper

63 100

98 0.0 2.9 8.8#

100 0.0 2.1 6.3#



#25

2-Butanone

Concen: 0.239 ug/l

RT: 6.79 min Scan# 1571

Delta R.T. 0.01 min

Lab File: VN063687.D

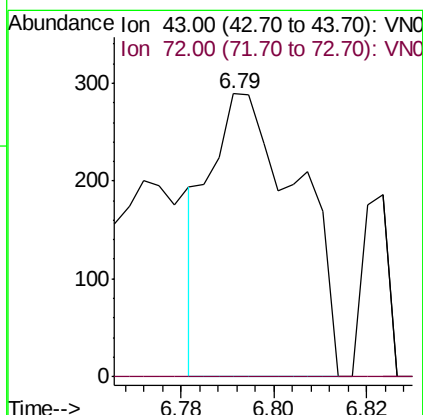
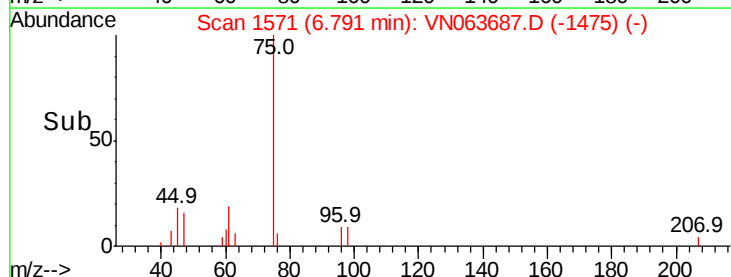
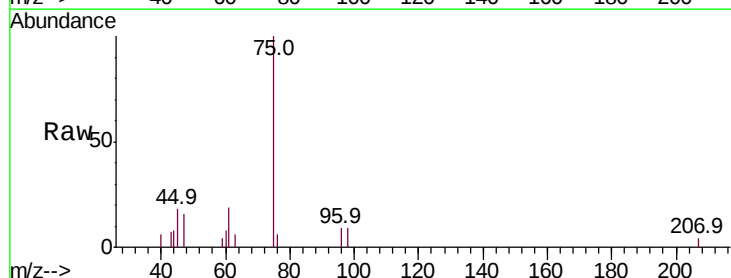
Acq: 25 Sep 2020 18:43

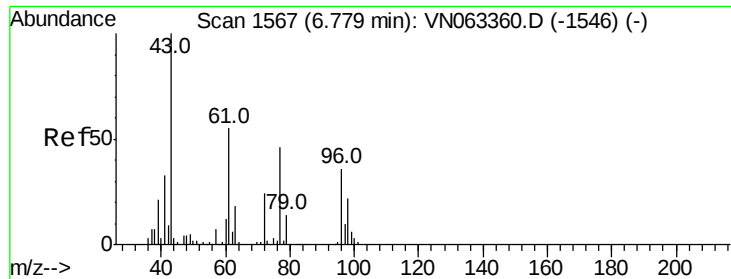
Tgt Ion: 43 Resp: 386

Ion Ratio Lower Upper

43 100

72 0.0 19.2 28.8#

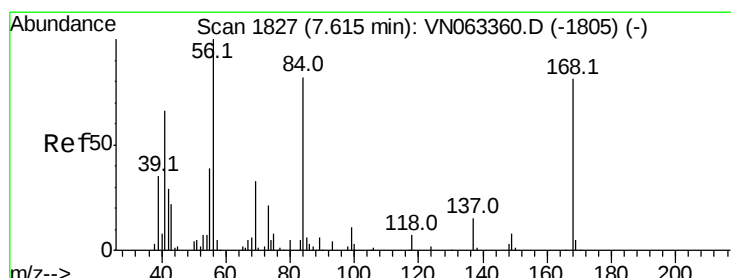
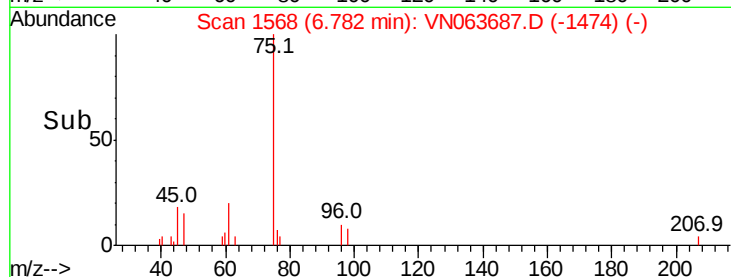
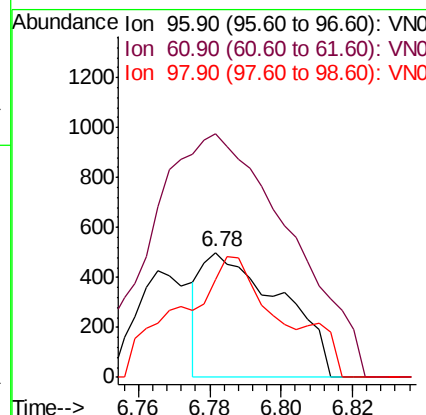
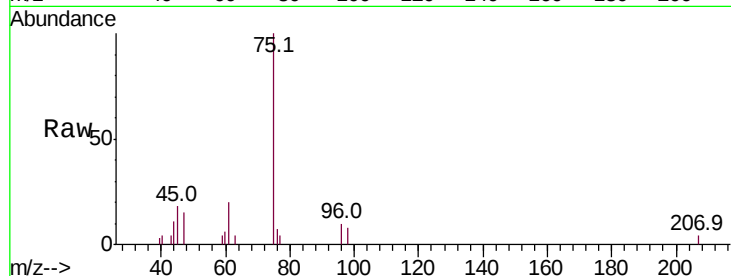




#27
 cis-1,2-Dichloroethene
 Concen: 0.282 ug/l
 RT: 6.78 min Scan# 1568
 Delta R.T. 0.00 min
 Lab File: VN063687.D
 Acq: 25 Sep 2020 18:43

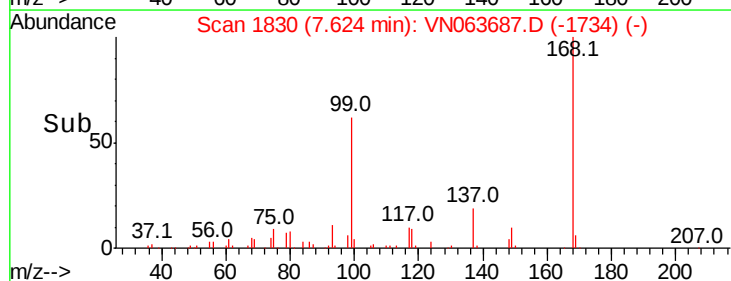
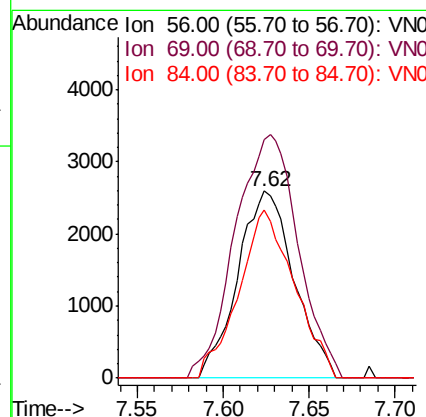
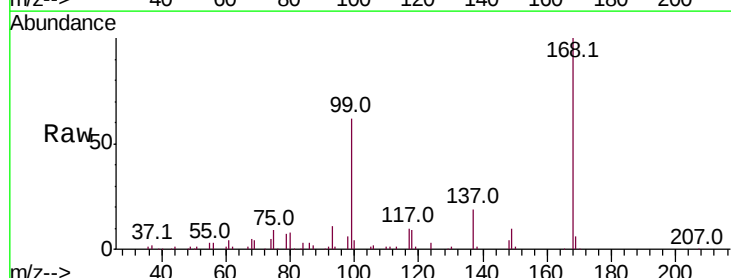
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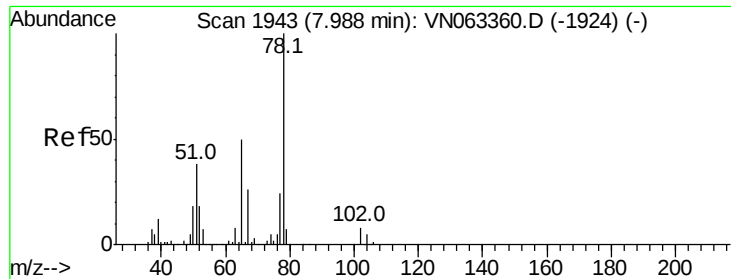
Tot Ion: 96 Resp: 765
 Ion Ratio Lower Upper
 96 100
 61 343.7 0.0 319.6#
 98 109.9 0.0 127.8



#31
 Cyclohexane
 Concen: 1.306 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. 0.01 min
 Lab File: VN063687.D
 Acq: 25 Sep 2020 18:43

Tgt Ion: 56 Resp: 5889
 Ion Ratio Lower Upper
 56 100
 69 127.4 26.1 39.1#
 84 89.5 65.4 98.2

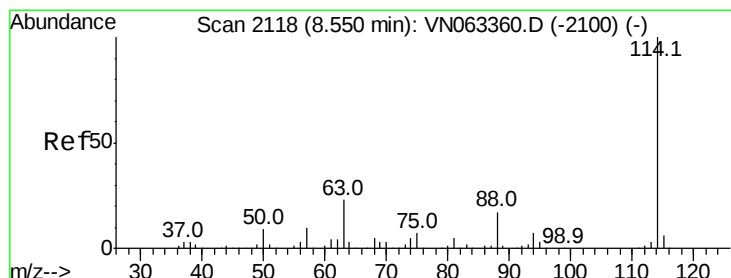
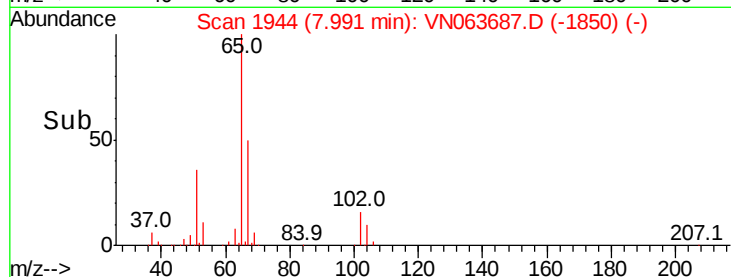
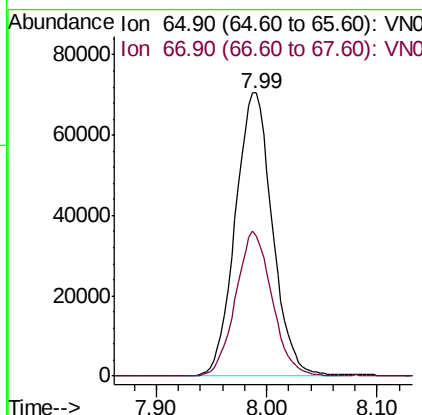
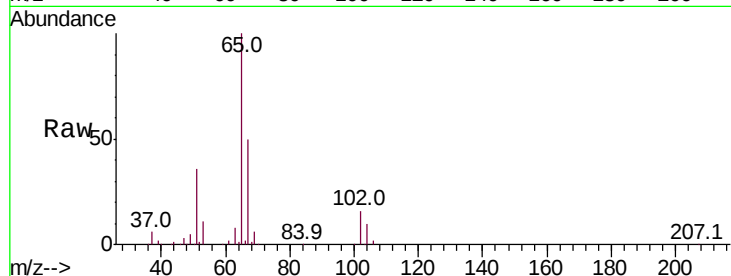




#33
 1,2-Dichloroethane-d4
 Concen: 50.374 ug/l
 RT: 7.99 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN063687.D
 Acq: 25 Sep 2020 18:43

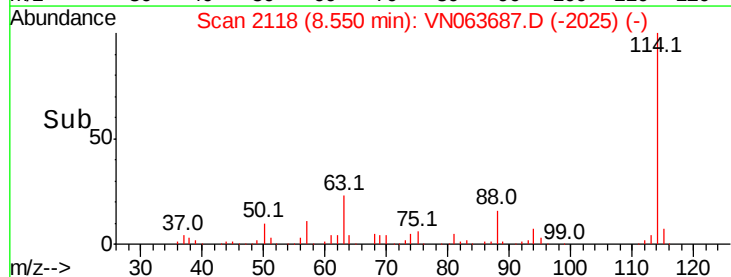
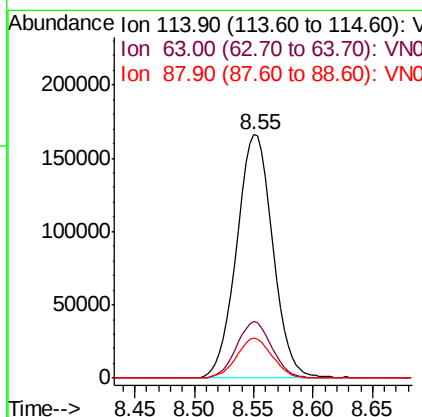
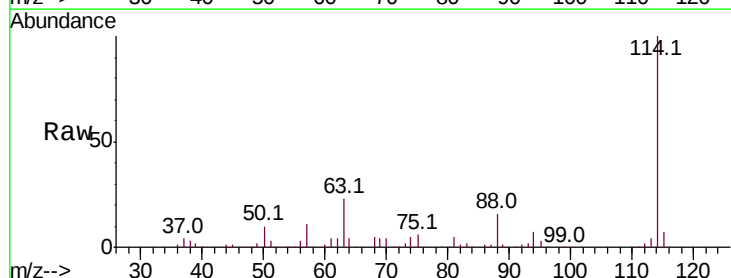
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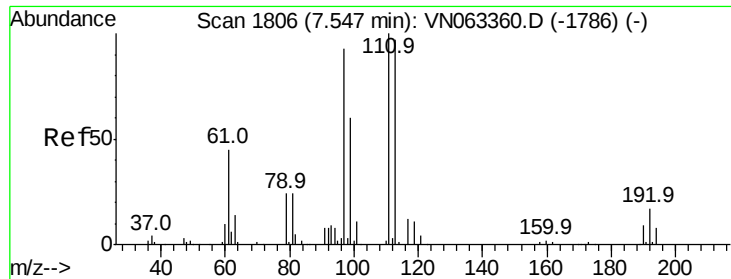
Tot Ion: 65 Resp: 164467
 Ion Ratio Lower Upper
 65 100
 67 50.1 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063687.D
 Acq: 25 Sep 2020 18:43

Tgt Ion: 114 Resp: 350453
 Ion Ratio Lower Upper
 114 100
 63 23.2 0.0 46.4
 88 16.3 0.0 33.2

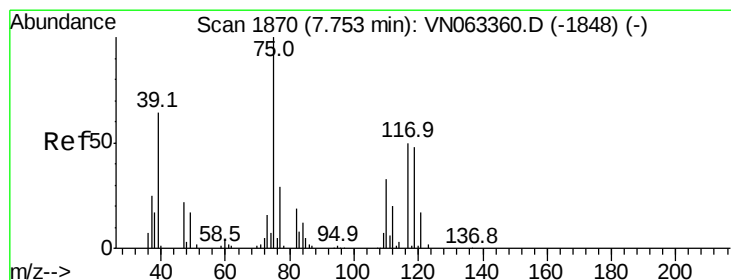
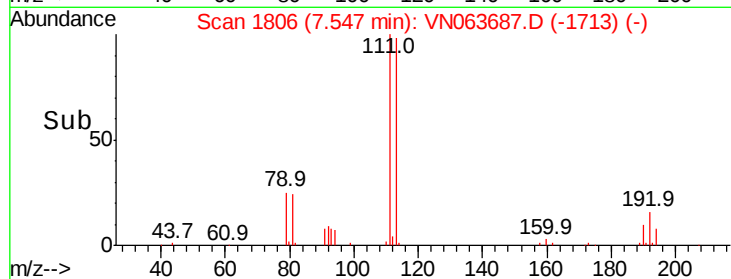
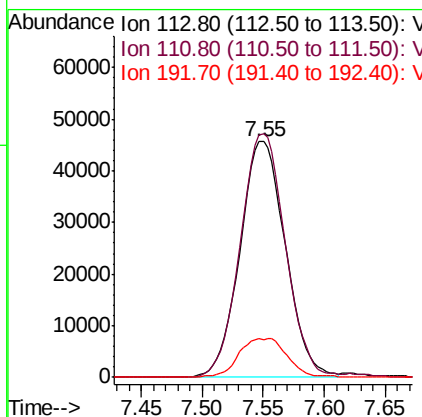
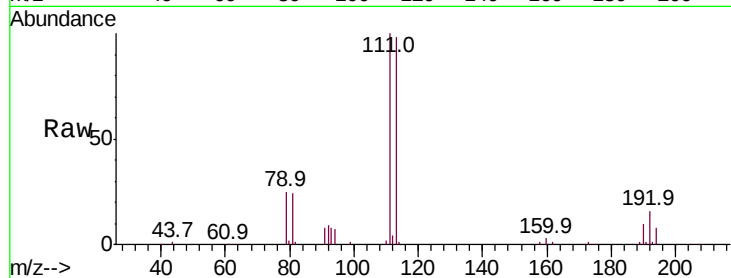




#35
Dibromofluoromethane
Concen: 48.589 ug/l
RT: 7.55 min Scan# 1806
Delta R.T. -0.00 min
Lab File: VN063687.D
Acq: 25 Sep 2020 18:43

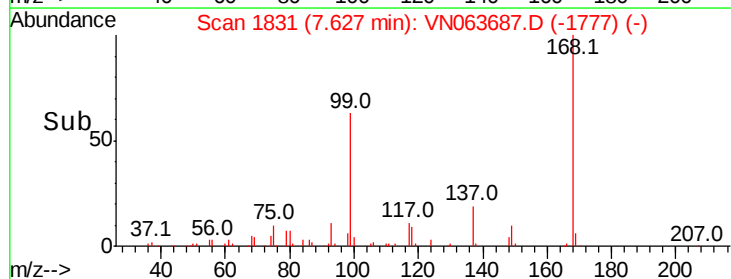
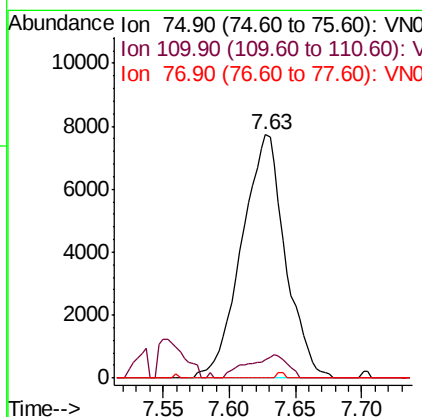
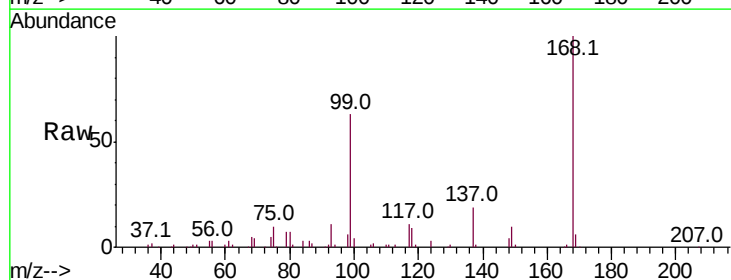
Instrument :
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ClientSampleId :
TT101D1-20200922DL

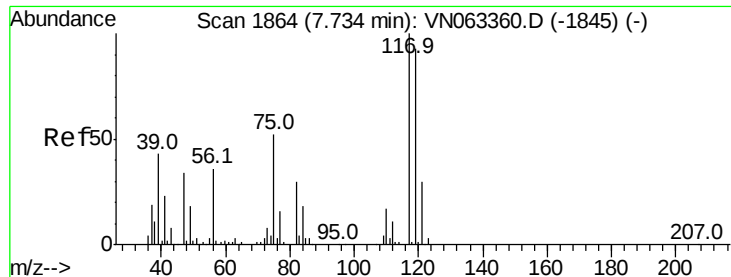
Tot Ion:113 Resp: 117882
Ion Ratio Lower Upper
113 100
111 102.2 82.9 124.3
192 17.5 13.9 20.9



#36
1,1-Dichloropropene
Concen: 4.722 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.13 min
Lab File: VN063687.D
Acq: 25 Sep 2020 18:43

Tgt Ion: 75 Resp: 17630
Ion Ratio Lower Upper
75 100
110 8.5 16.5 49.5#
77 0.4 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 5.613 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.10 min

Lab File: VN063687.D

Acq: 25 Sep 2020 18:43

Instrument :

MSVOA_N

ClientSampleId :

TT101D1-20200922DL

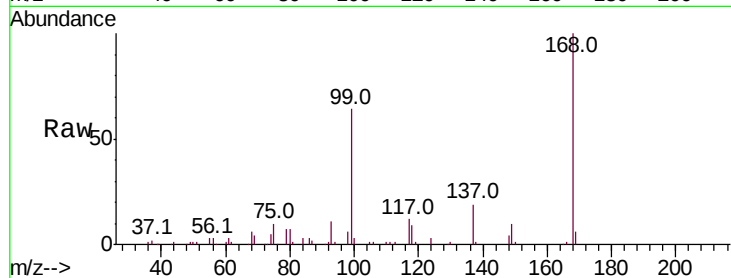
Tot Ion:117 Resp: 21392

Ion Ratio Lower Upper

117 100

119 5.7 74.5 111.7#

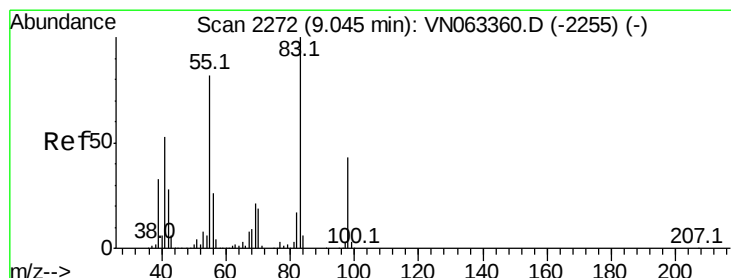
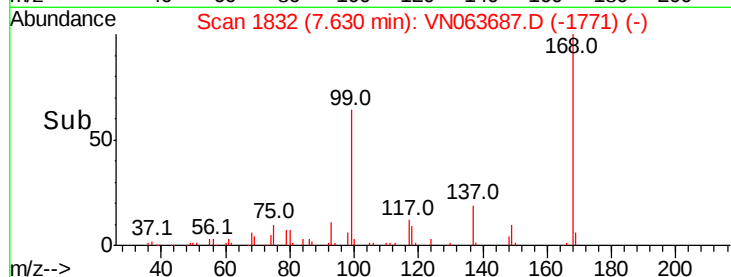
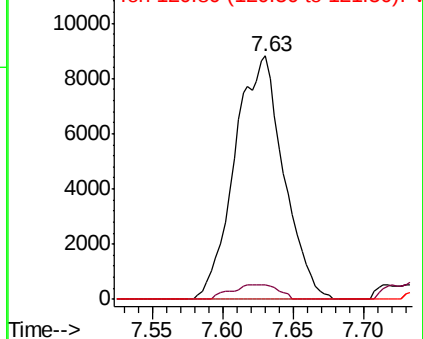
121 0.0 24.1 36.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 0.675 ug/l

RT: 8.80 min Scan# 2195

Delta R.T. -0.25 min

Lab File: VN063687.D

Acq: 25 Sep 2020 18:43

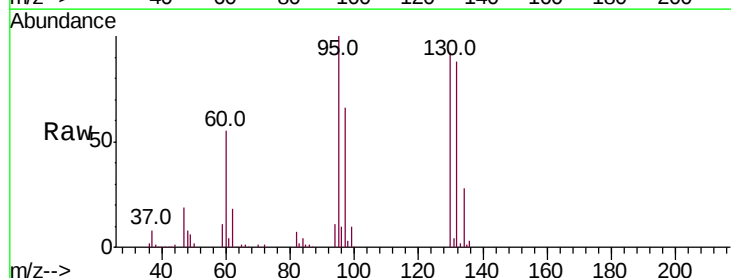
Tgt Ion: 83 Resp: 2736

Ion Ratio Lower Upper

83 100

55 0.0 65.5 98.3#

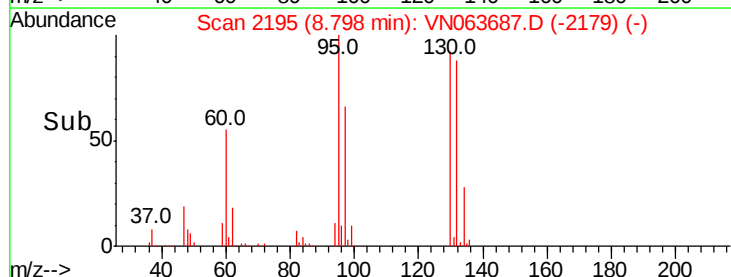
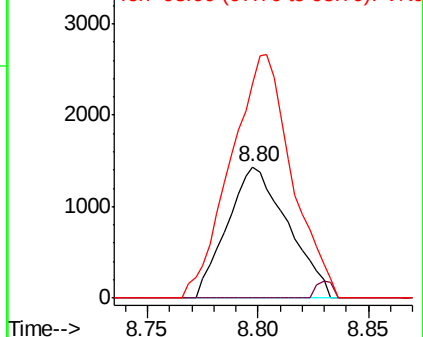
98 163.0 34.2 51.4#

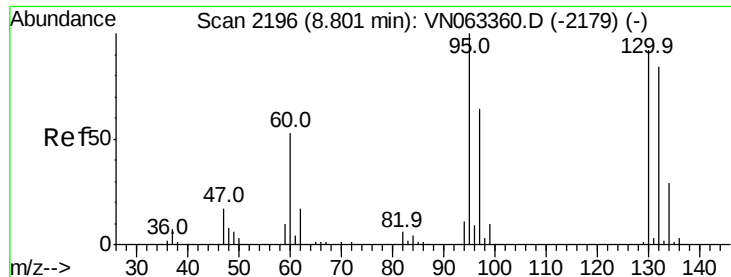


Abundance Ion 83.00 (82.70 to 83.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 98.00 (97.70 to 98.70): VNO





#44

Trichloroethene

Concen: 68.938 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN063687.D

Acq: 25 Sep 2020 18:43

Instrument :

MSVOA_N

ClientSampleId :

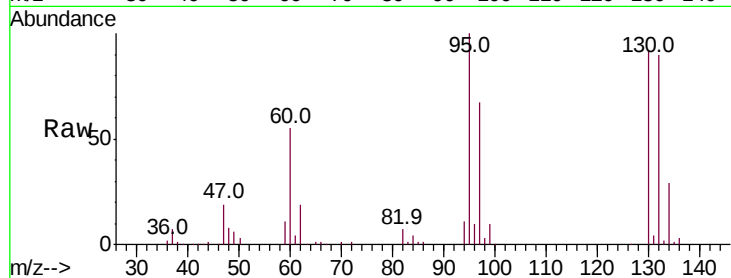
TT101D1-20200922DL

Tot Ion:130 Resp: 178208

Ion Ratio Lower Upper

130 100

95 108.6 0.0 217.4



Abundance Ion 129.80 (129.50 to 130.50): VN063360.D (-2179) (-)

Ion 94.90 (94.60 to 95.60): VN063360.D (-2179) (-)

8.80

100000

80000

60000

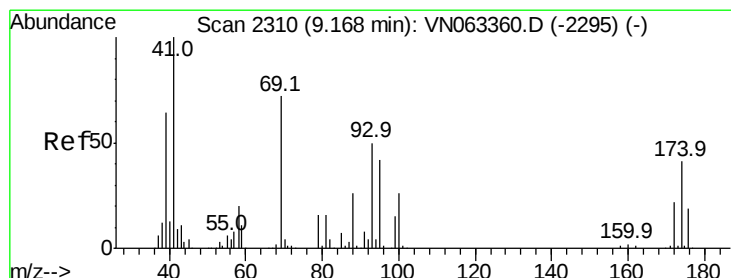
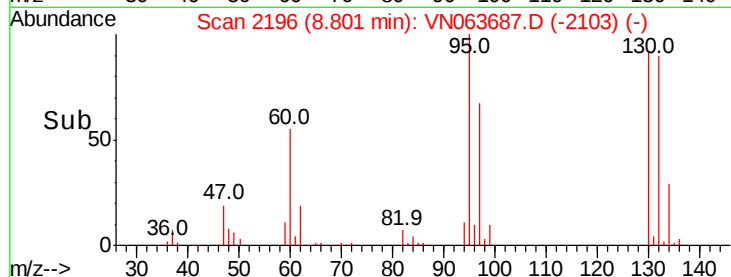
40000

20000

0

Time-->

8.70 8.75 8.80 8.85 8.90



#49

1,4-Dioxane

Concen: 3.290 ug/l

RT: 9.16 min Scan# 2308

Delta R.T. -0.01 min

Lab File: VN063687.D

Acq: 25 Sep 2020 18:43

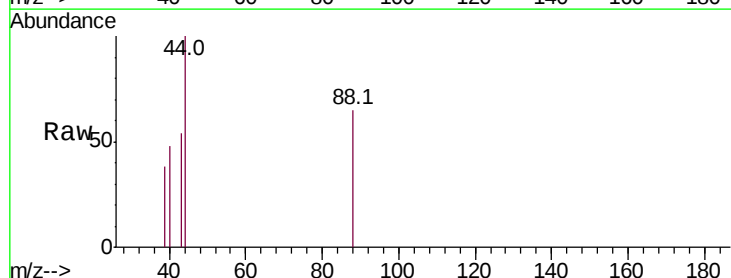
Tgt Ion: 88 Resp: 152

Ion Ratio Lower Upper

88 100

43 154.6 32.6 49.0#

58 0.0 60.0 90.0#



Abundance Ion 88.00 (87.70 to 88.70): VN063360.D (-2295) (-)

Ion 43.00 (42.70 to 43.70): VN063360.D (-2295) (-)

Ion 58.00 (57.70 to 58.70): VN063360.D (-2295) (-)

9.16

400

300

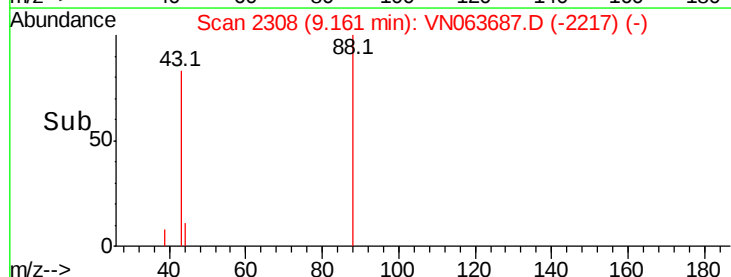
200

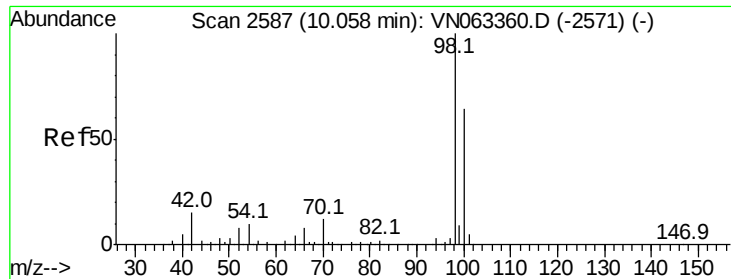
100

0

Time-->

9.15 9.16 9.17





#50

Toluene-d8

Concen: 50.340 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063687.D

Acq: 25 Sep 2020 18:43

Instrument :

MSVOA_N

ClientSampleId :

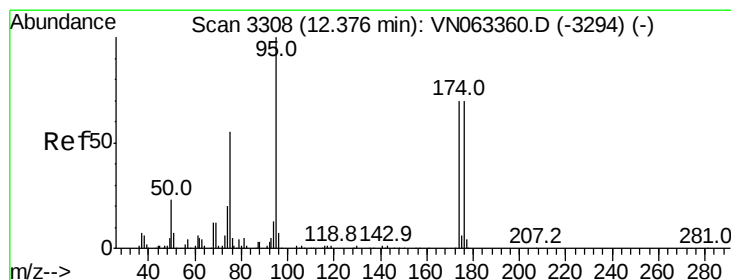
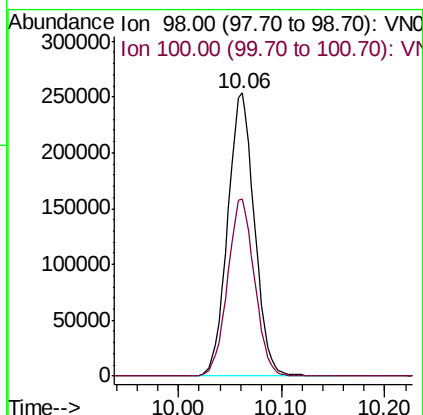
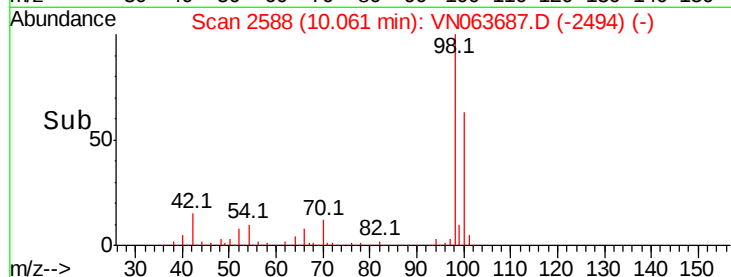
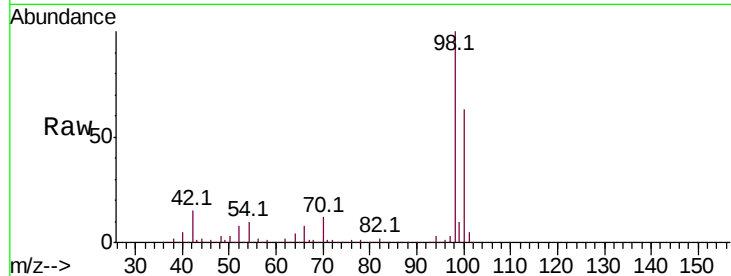
TT101D1-20200922DL

Tot Ion: 98 Resp: 459231

Ion Ratio Lower Upper

98 100

100 63.2 50.7 76.1



#62

4-Bromofluorobenzene

Concen: 56.049 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063687.D

Acq: 25 Sep 2020 18:43

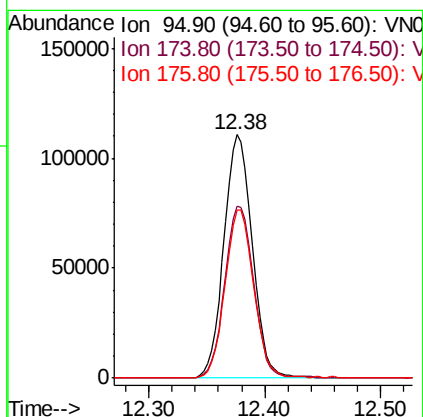
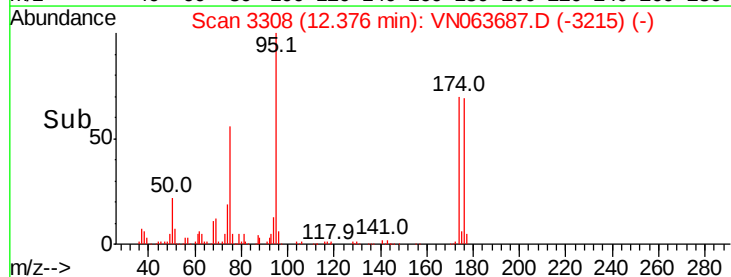
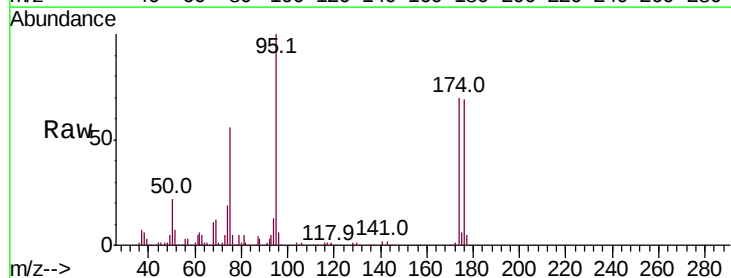
Tgt Ion: 95 Resp: 187437

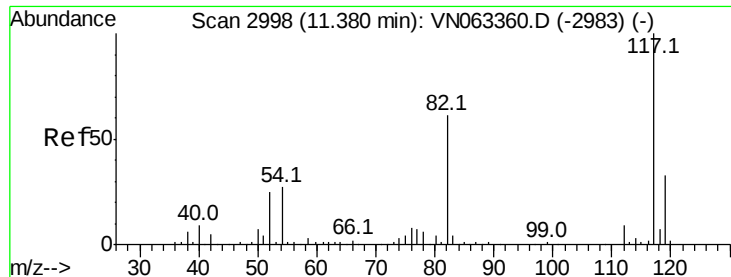
Ion Ratio Lower Upper

95 100

174 71.7 0.0 140.8

176 69.5 0.0 137.6

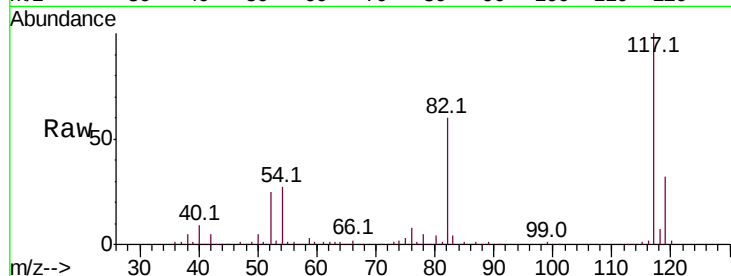




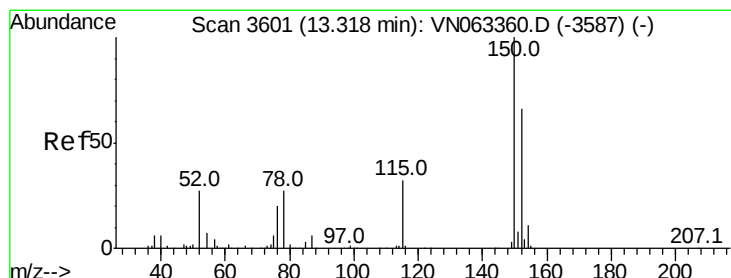
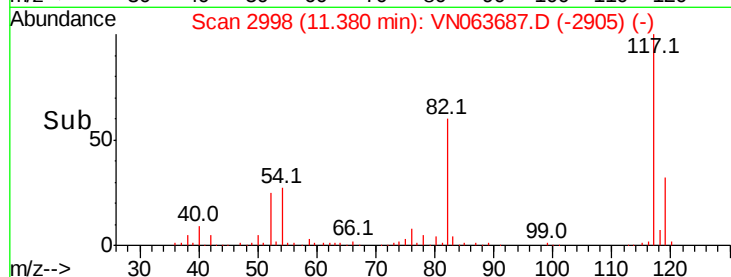
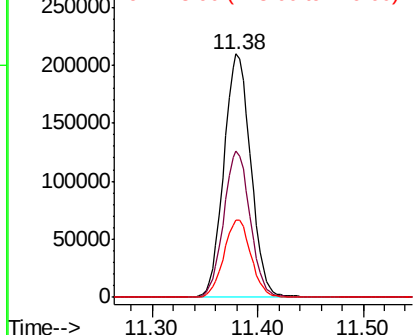
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063687.D
Acq: 25 Sep 2020 18:43

Instrument :
MSVOA_N
ClientSampleId :
TT101D1-20200922DL

Tot Ion:117 Resp: 369986
Ion Ratio Lower Upper
117 100
82 60.2 49.2 73.8
119 31.8 26.2 39.4

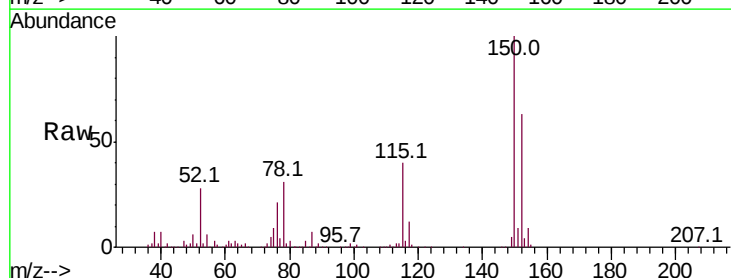


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

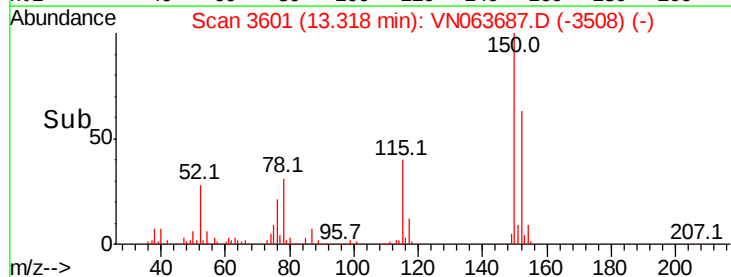
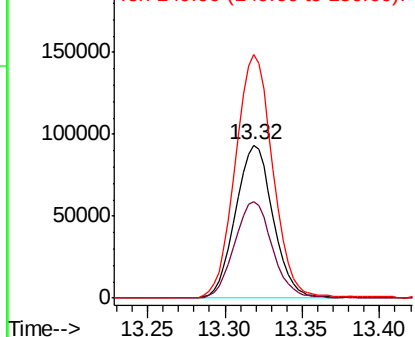


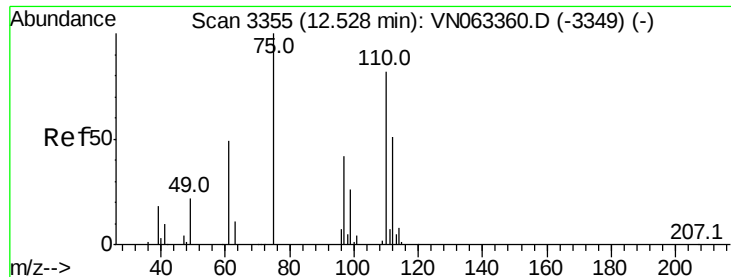
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN063687.D
Acq: 25 Sep 2020 18:43

Tgt Ion:152 Resp: 157479
Ion Ratio Lower Upper
152 100
115 63.4 32.2 96.6
150 159.2 0.0 343.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V

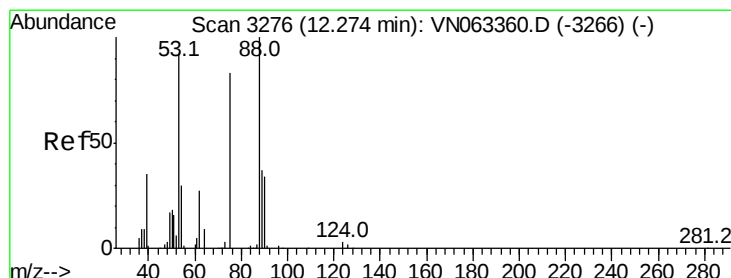
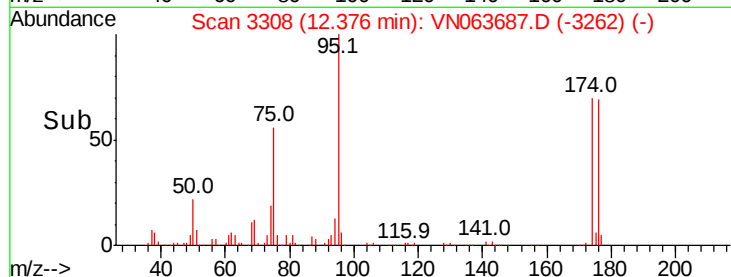
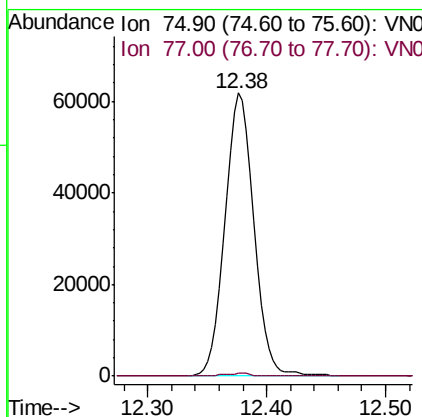
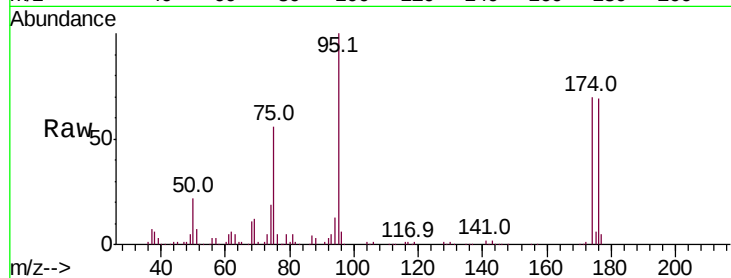




#76
 1,2,3-Trichloropropane
 Concen: 26.775 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN063687.D
 Acq: 25 Sep 2020 18:43

Instrument :
 MSVOA_N
 ClientSampleId :
 TT101D1-20200922DL

Tot Ion: 75 Resp: 104366
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 73.408 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN063687.D
 Acq: 25 Sep 2020 18:43

Tgt Ion: 75 Resp: 104366
 Ion Ratio Lower Upper
 75 100
 53 0.1 85.7 128.5#
 89 0.0 38.0 57.0#

