

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100120\
 Data File : VN063782.D
 Acq On : 1 Oct 2020 19:21
 Operator : JC/MD
 Sample : PB132009ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132009ZHE#04

Quant Time: Oct 02 02:16:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 01:46:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	208724	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	393337	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	413487	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	166921	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	180762	52.42	ug/l	0.00
Spiked Amount			Recovery	=	104.84%	
35) Dibromofluoromethane	7.55	113	128173	46.96	ug/l	0.00
Spiked Amount			Recovery	=	93.92%	
50) Toluene-d8	10.06	98	511324	49.42	ug/l	0.00
Spiked Amount			Recovery	=	98.84%	
62) 4-Bromofluorobenzene	12.38	95	201701	51.86	ug/l	0.00
Spiked Amount			Recovery	=	103.72%	

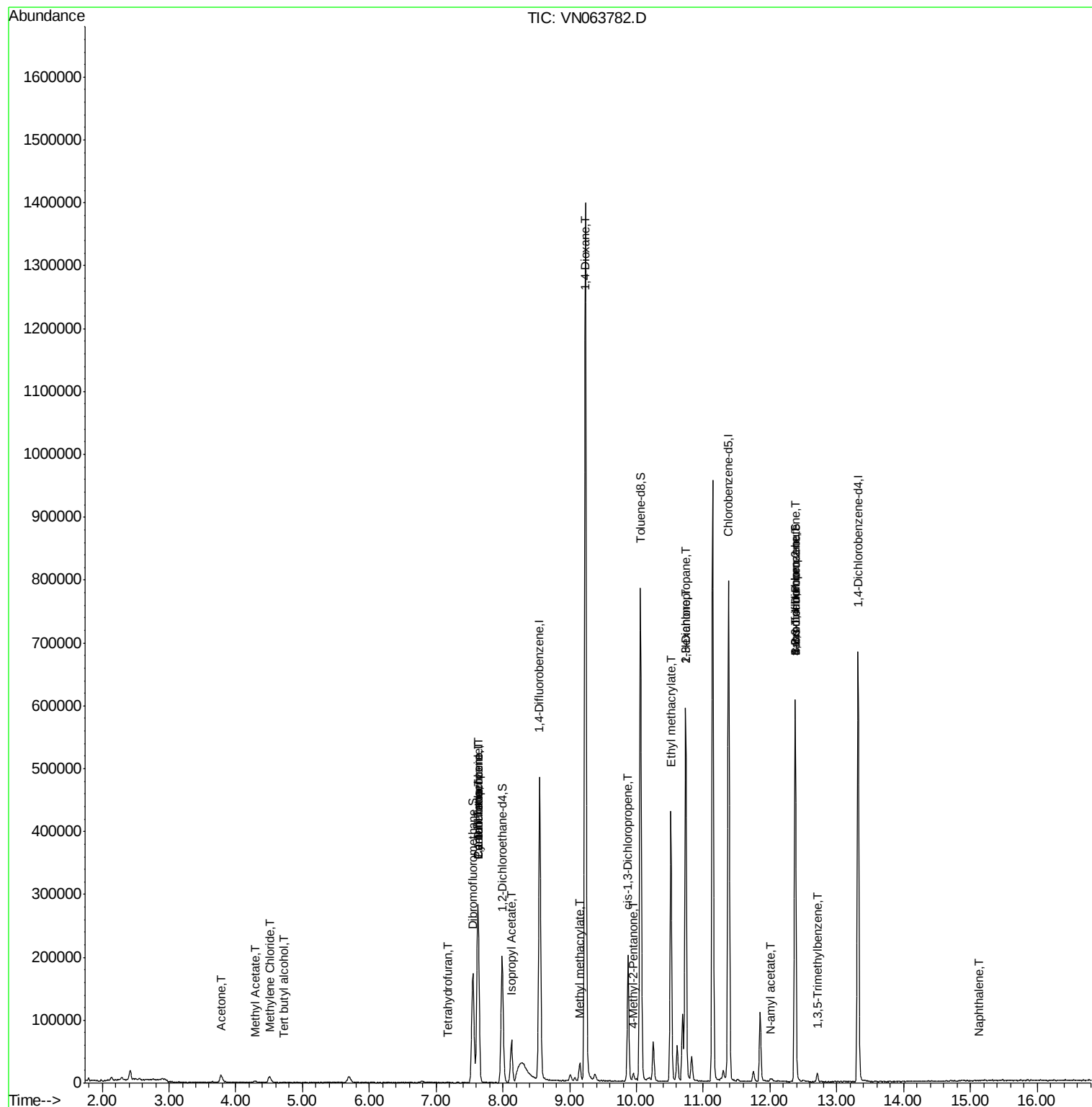
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	106	0.278	ug/l #	71
16) Acetone	3.78	43	21634	20.381	ug/l	99
18) Methyl Acetate	4.29	43	4734	1.718	ug/l #	74
20) Methylene Chloride	4.50	84	6440	2.742	ug/l	90
29) Tetrahydrofuran	7.17	42	525	0.520	ug/l #	50
31) Cyclohexane	7.63	56	5752	1.437	ug/l #	27
36) 1,1-Dichloropropene	7.63	75	19871	4.987	ug/l #	50
38) Carbon Tetrachloride	7.63	117	23942	5.358	ug/l #	16
43) Isopropyl Acetate	8.13	43	79093	12.112	ug/l	99
48) Methyl methacrylate	9.14	41	4594	1.424	ug/l #	12
49) 1,4-Dioxane	9.24	88	32	0.698	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	7021	1.832	ug/l	90
54) cis-1,3-Dichloropropene	9.87	75	32275	6.588	ug/l #	68
56) Ethyl methacrylate	10.52	69	2156	0.539	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5693	1.192	ug/l #	43
59) 2-Hexanone	10.74	43	93473	32.834	ug/l #	53
71) Bromoform	12.38	173	1296	0.521	ug/l #	1
74) N-amyl acetate	12.00	43	4178	2.922	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	117091	31.822	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	6807	0.666	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.38	75	117091	91.651	ug/l #	6
95) Naphthalene	15.13	128	29	1.928	ug/l #	69

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

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Quant Title : SW846 8260
QLast Update : Thu Oct 01 01:46:38 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: VN063782.D

Acq: 1 Oct 2020 19:21

Instrument :

MSVOA_N

ClientSampleId :

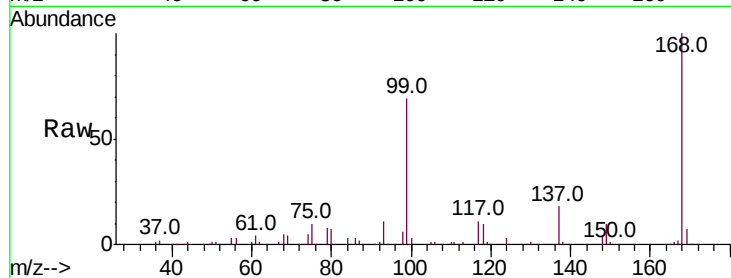
PB132009ZHE#04

Tot Ion:168 Resp: 208724

Ion Ratio Lower Upper

168 100

99 69.1 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): VN063741.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN063741.D (-1812) (-)

7.63

80000

60000

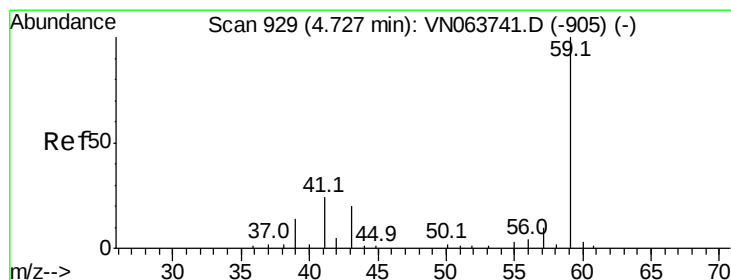
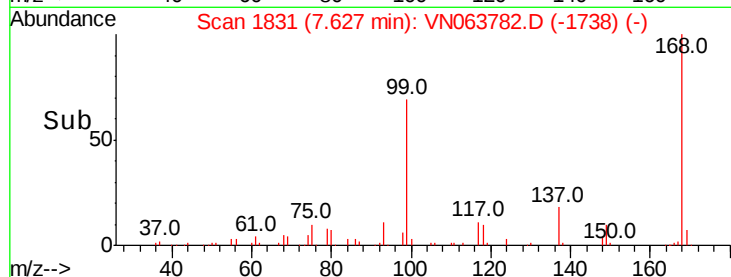
40000

20000

0

7.55 7.60 7.65 7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.278 ug/l

RT: 4.72 min Scan# 928

Delta R.T. -0.00 min

Lab File: VN063782.D

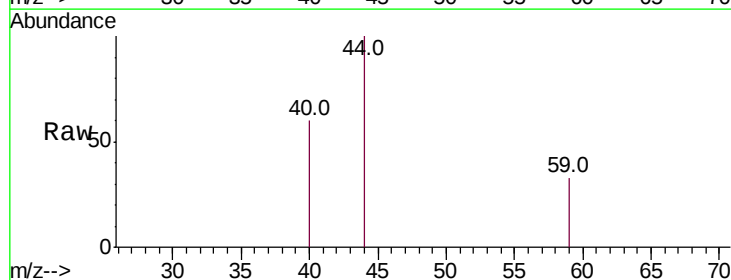
Acq: 1 Oct 2020 19:21

Tgt Ion: 59 Resp: 106

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VN063741.D (-905) (-)

Ion 57.00 (56.70 to 57.70): VN063741.D (-905) (-)

4.72

200

150

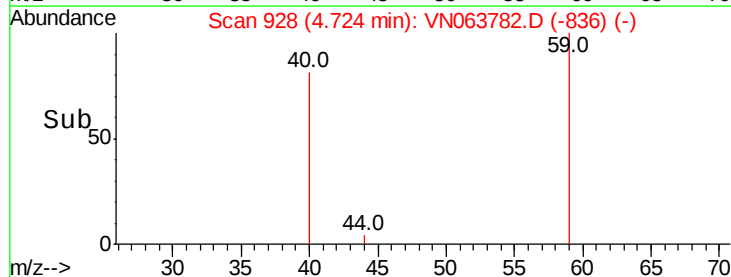
100

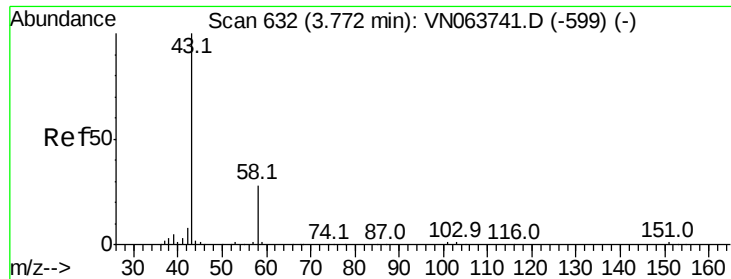
50

0

4.71 4.72 4.73 4.74

Time-->





#16

Acetone

Concen: 20.381 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN063782.D

Acq: 1 Oct 2020 19:21

Instrument :

MSVOA_N

ClientSampleId :

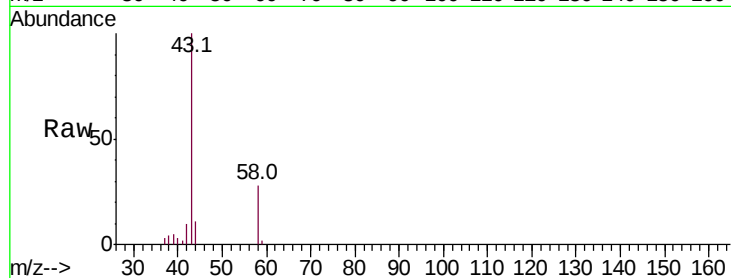
PB132009ZHE#04

Tot Ion: 43 Resp: 21634

Ion Ratio Lower Upper

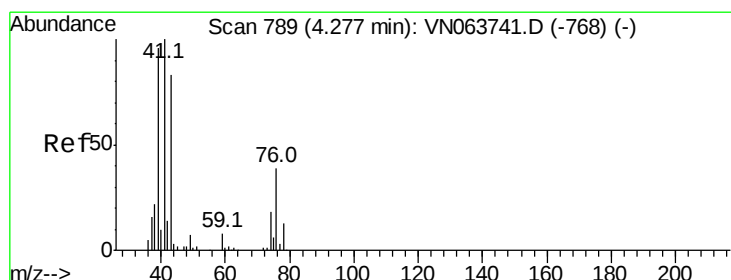
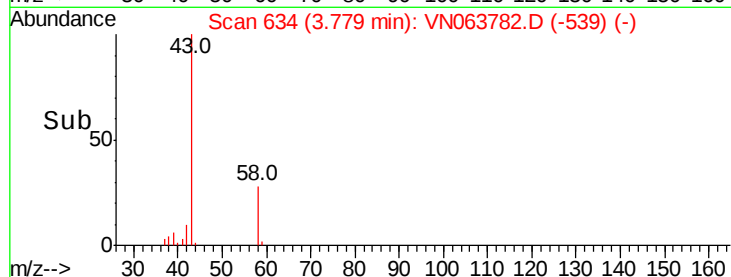
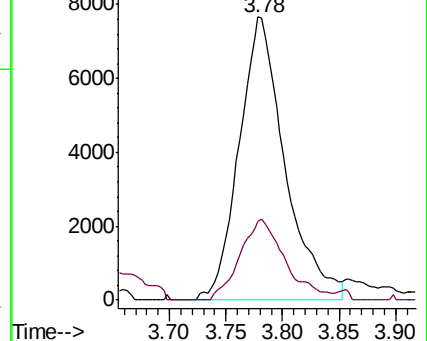
43 100

58 27.6 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.718 ug/l

RT: 4.29 min Scan# 794

Delta R.T. 0.02 min

Lab File: VN063782.D

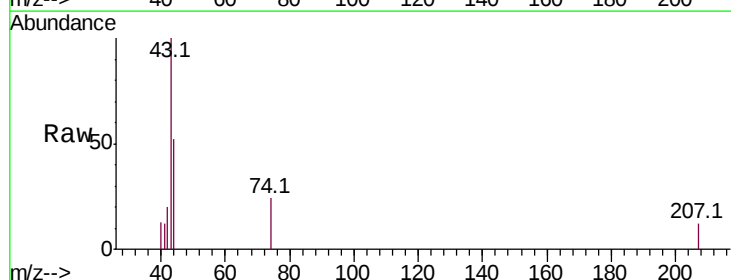
Acq: 1 Oct 2020 19:21

Tgt Ion: 43 Resp: 4734

Ion Ratio Lower Upper

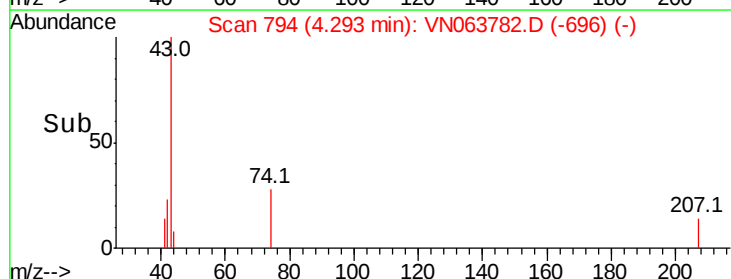
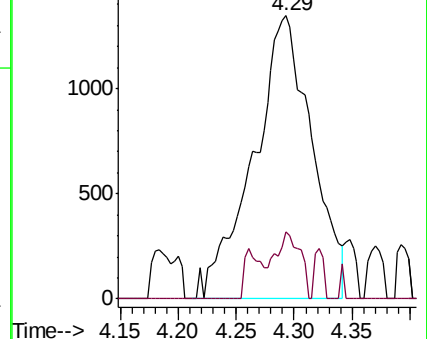
43 100

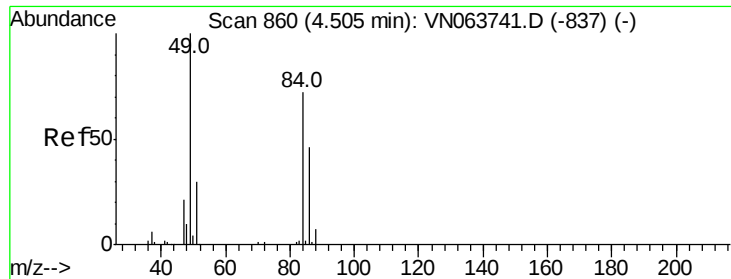
74 9.7 17.4 26.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

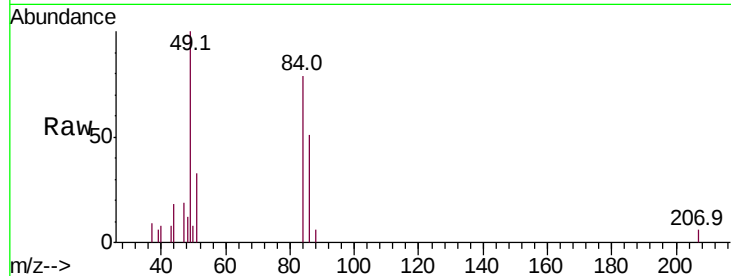




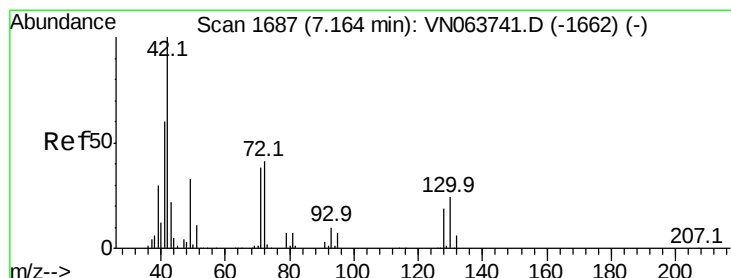
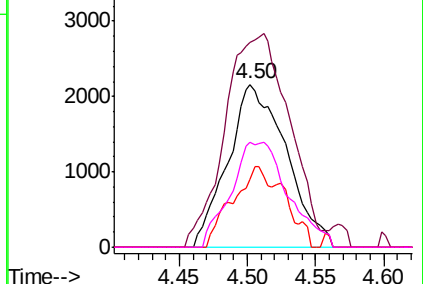
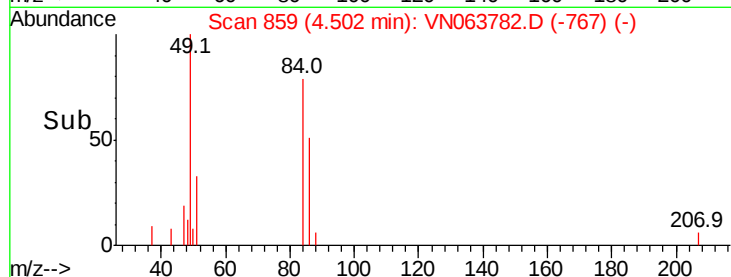
#20
Methvlene Chloride
Concen: 2.742 ug/l
RT: 4.50 min Scan# 859
Delta R.T. -0.00 min
Lab File: VN063782.D
Acq: 1 Oct 2020 19:21

Instrument :
MSVOA_N
ClientSampleId :
PB132009ZHE#04

Tot Ion: 84 Resp: 6440
Ion Ratio Lower Upper
84 100
49 118.4 110.4 165.6
51 41.7 33.3 49.9
86 64.8 50.7 76.1

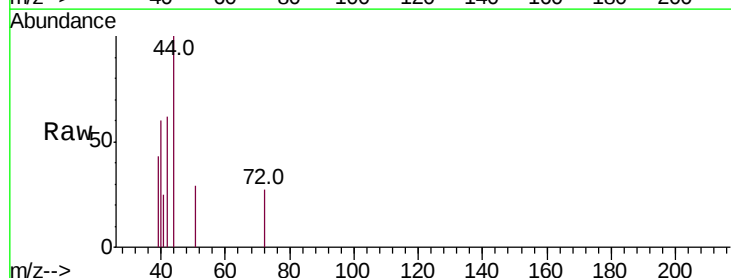


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

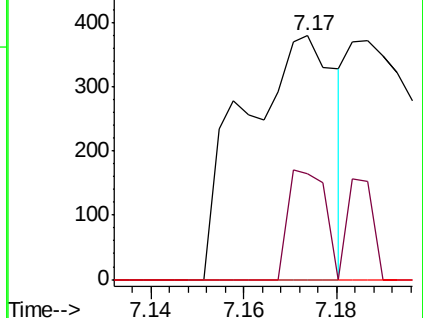
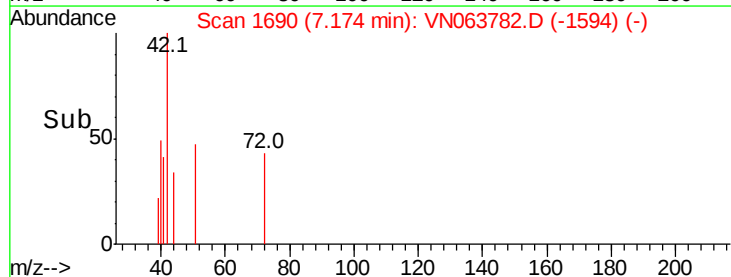


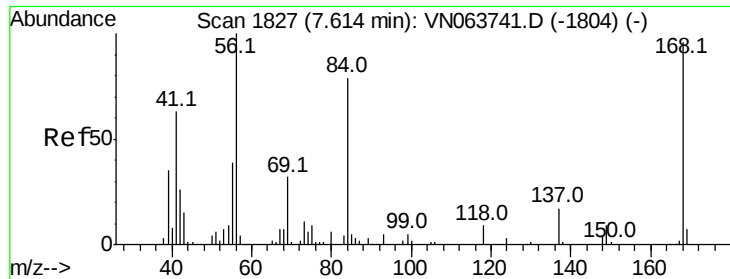
#29
Tetrahydrofuran
Concen: 0.520 ug/l
RT: 7.17 min Scan# 1690
Delta R.T. 0.01 min
Lab File: VN063782.D
Acq: 1 Oct 2020 19:21

Tgt Ion: 42 Resp: 525
Ion Ratio Lower Upper
42 100
72 17.9 32.8 49.2#
71 0.0 30.6 45.8#



Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

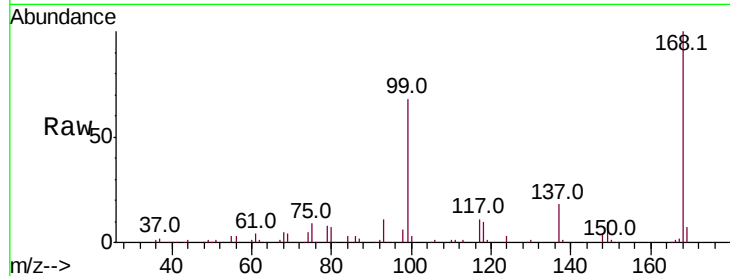




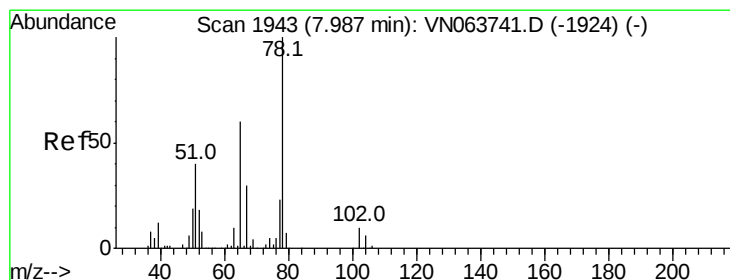
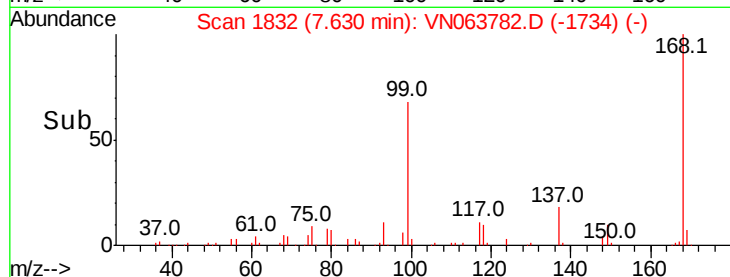
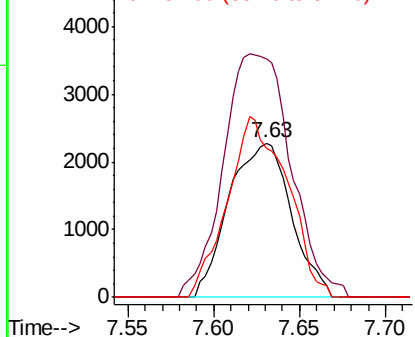
#31
Cyclohexane
Concen: 1.437 ug/l
RT: 7.63 min Scan# 1832
Delta R.T. 0.02 min
Lab File: VN063782.D
Acq: 1 Oct 2020 19:21

Instrument :
MSVOA_N
ClientSampleId :
PB132009ZHE#04

Tot Ion: 56 Resp: 5752
Ion Ratio Lower Upper
56 100
69 145.9 25.4 38.2#
84 96.4 63.3 94.9#

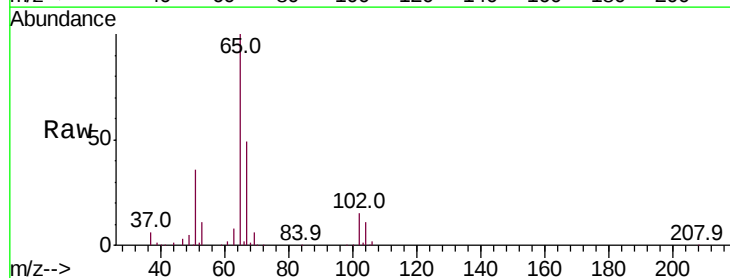


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

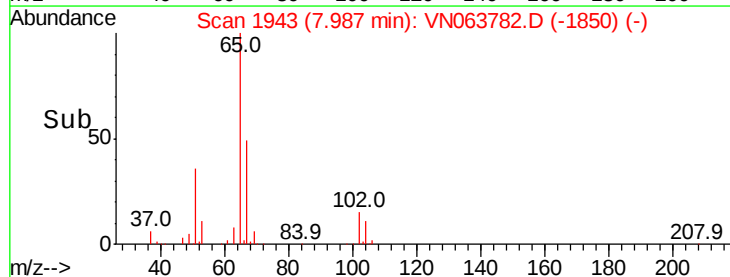
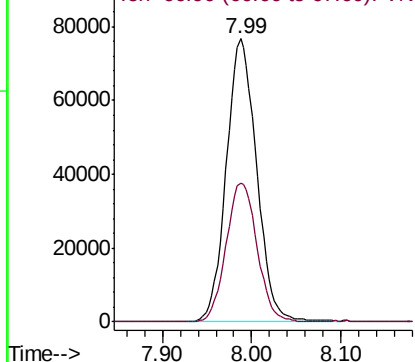


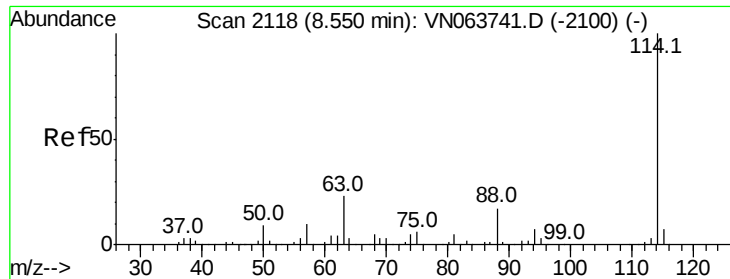
#33
1,2-Dichloroethane-d4
Concen: 52.421 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN063782.D
Acq: 1 Oct 2020 19:21

Tgt Ion: 65 Resp: 180762
Ion Ratio Lower Upper
65 100
67 50.1 0.0 99.6



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

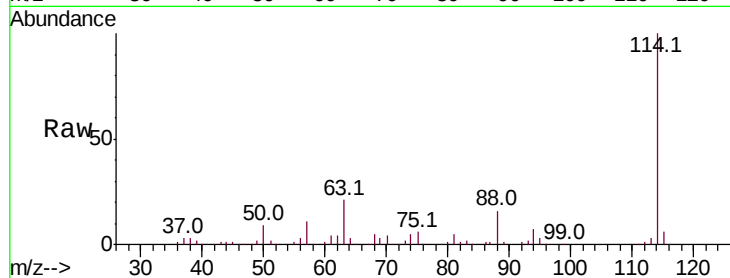




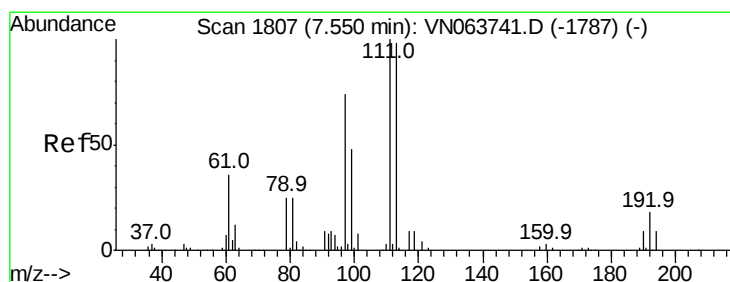
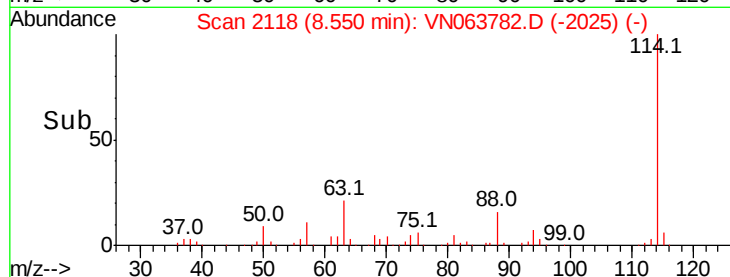
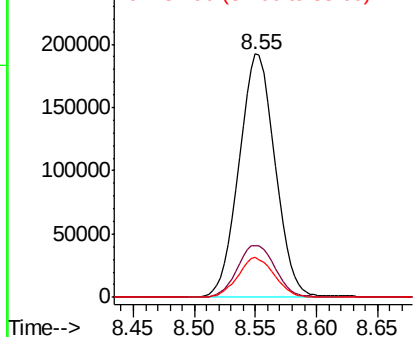
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN063782.D
 Acq: 1 Oct 2020 19:21

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132009ZHE#04

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	45.0
88	16.2	0.0	34.0

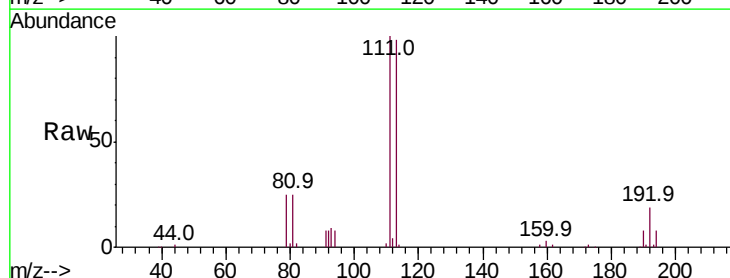


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

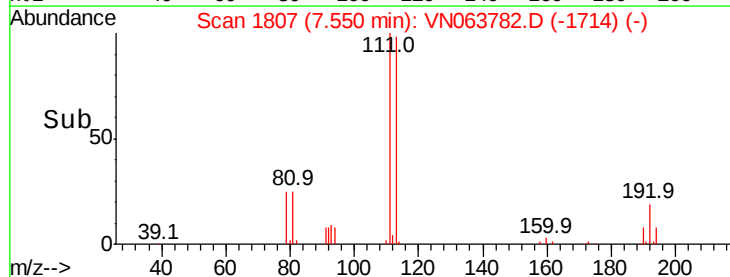
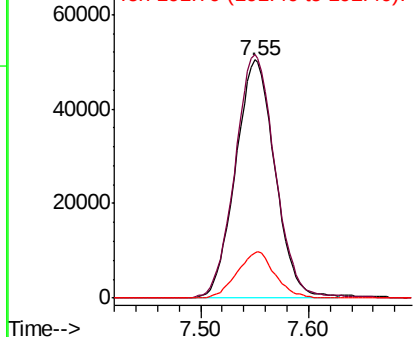


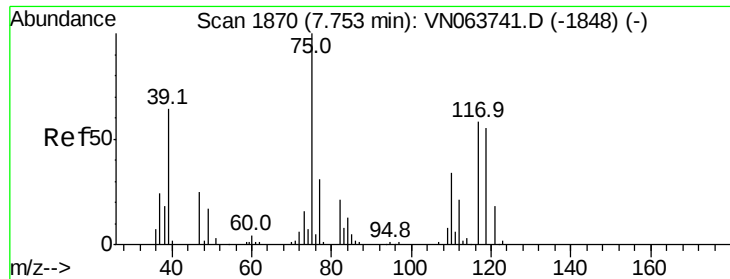
#35
 Dibromofluoromethane
 Concen: 46.962 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063782.D
 Acq: 1 Oct 2020 19:21

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.1	81.8	122.8
192	18.7	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

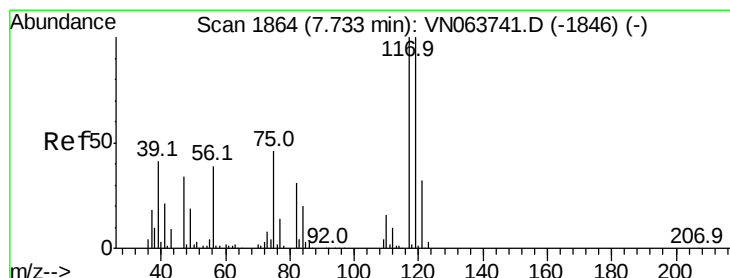
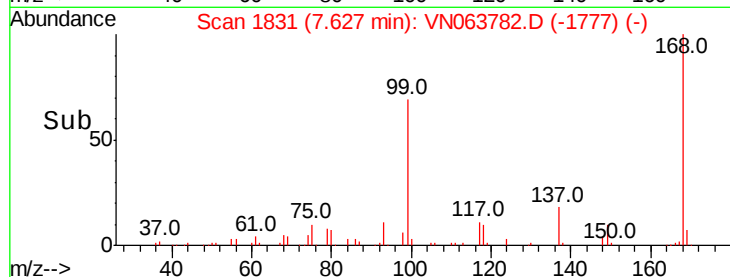
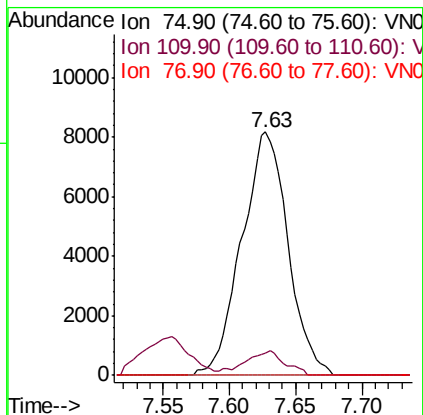
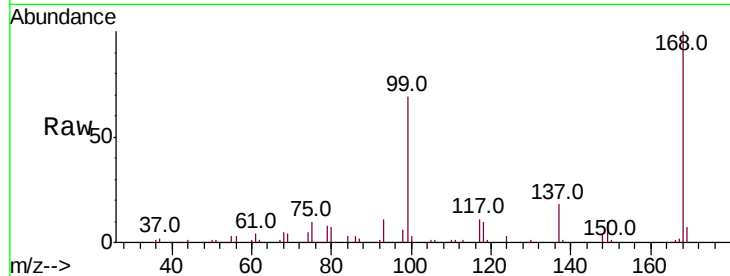




#36
 1,1-Dichloropropene
 Concen: 4.987 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063782.D
 Acq: 1 Oct 2020 19:21

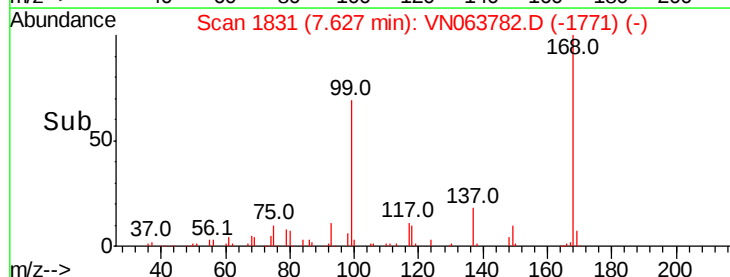
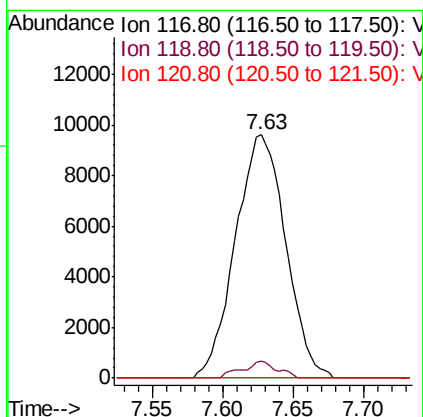
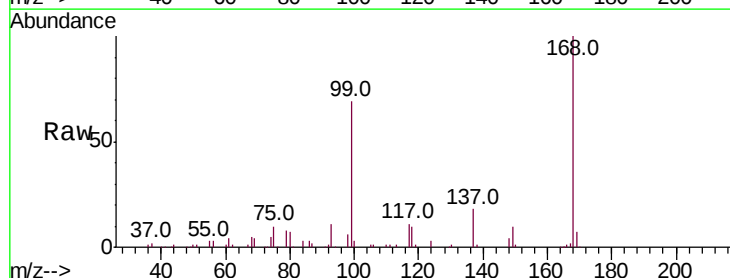
Instrument :
 MSVOA_N
 ClientSampleId :
 PB132009ZHE#04

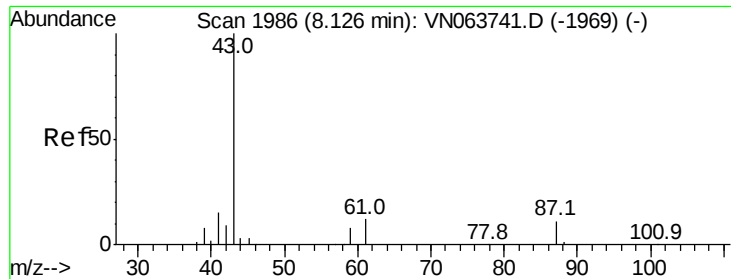
Tot Ion: 75 Resp: 19871
 Ion Ratio Lower Upper
 75 100
 110 8.5 16.9 50.6#
 77 0.0 24.5 36.7#



#38
 Carbon Tetrachloride
 Concen: 5.358 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN063782.D
 Acq: 1 Oct 2020 19:21

Tgt Ion: 117 Resp: 23942
 Ion Ratio Lower Upper
 117 100
 119 7.1 80.1 120.1#
 121 0.0 25.7 38.5#





#43

Isopropyl Acetate

Concen: 12.112 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN063782.D

Acq: 1 Oct 2020 19:21

Instrument :

MSVOA_N

ClientSampleId :

PB132009ZHE#04

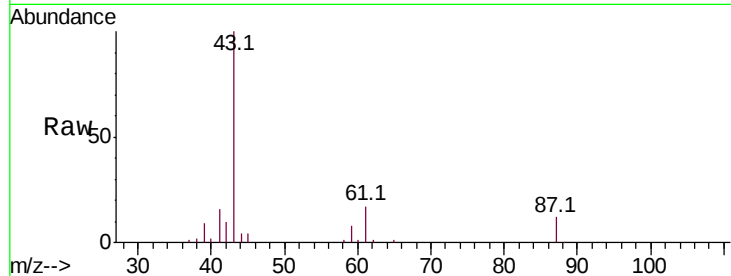
Tot Ion: 43 Resp: 79093

Ion Ratio Lower Upper

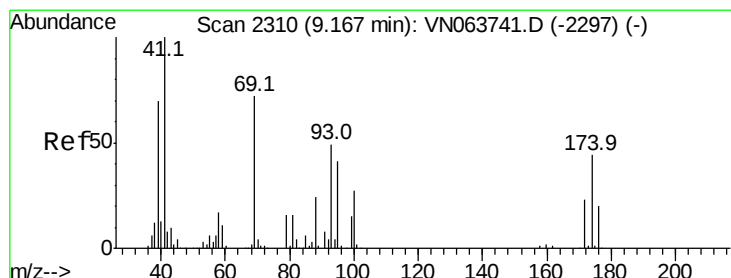
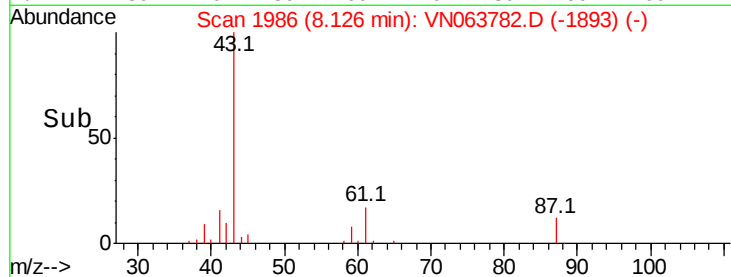
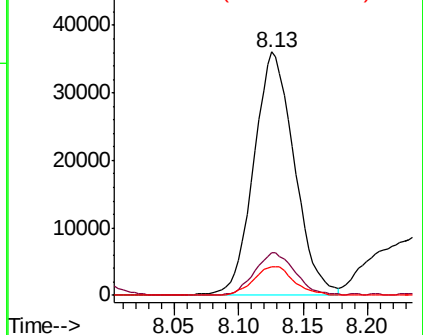
43 100

61 17.4 14.2 21.4

87 11.7 9.0 13.6



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



#48

Methyl methacrylate

Concen: 1.424 ug/l

RT: 9.14 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN063782.D

Acq: 1 Oct 2020 19:21

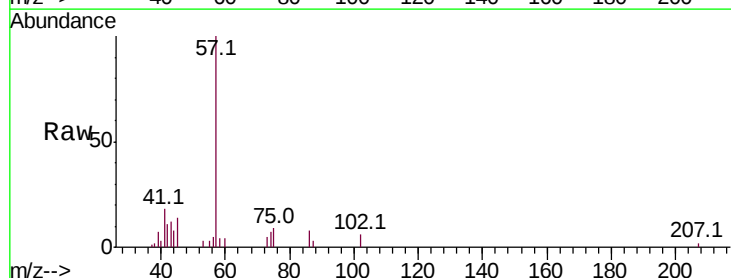
Tgt Ion: 41 Resp: 4594

Ion Ratio Lower Upper

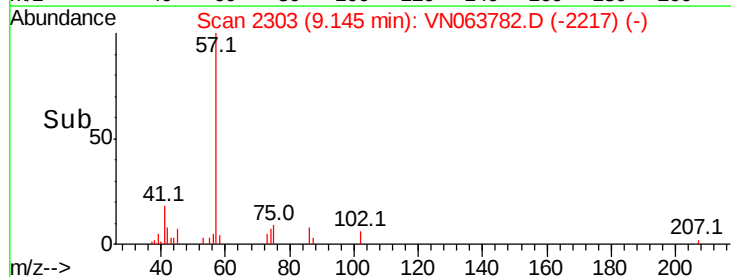
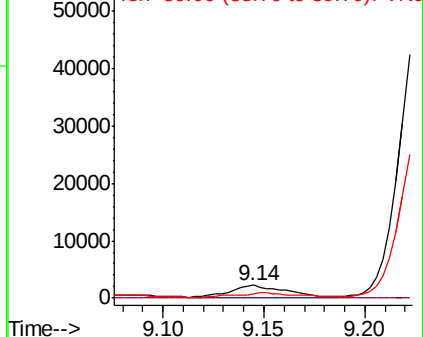
41 100

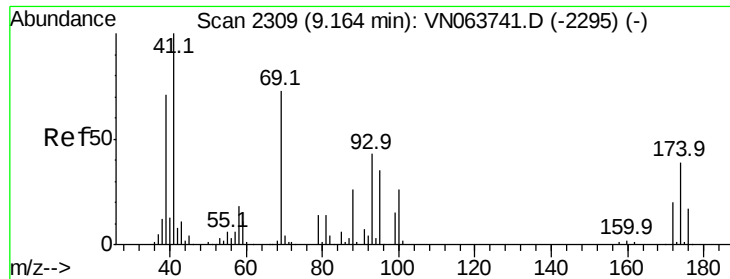
69 0.0 60.9 91.3#

39 0.0 57.5 86.3#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





#49

1,4-Dioxane

Concen: 0.698 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.07 min

Lab File: VN063782.D

Acq: 1 Oct 2020 19:21

Instrument :

MSVOA_N

ClientSampleId :

PB132009ZHE#04

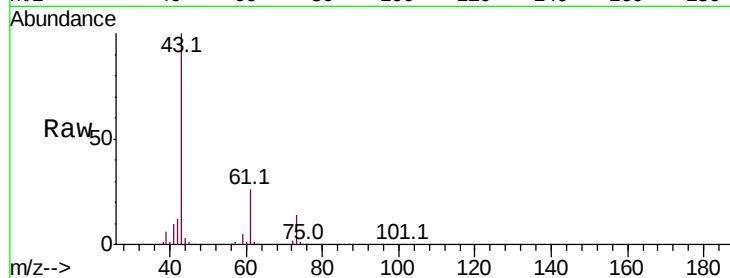
Tot Ion: 88 Resp: 32

Ion Ratio Lower Upper

88 100

43 4317346.9 33.1 49.7#

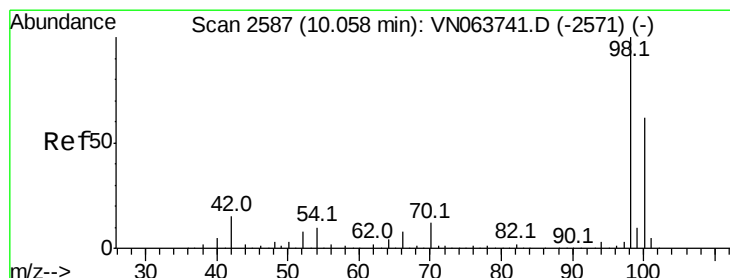
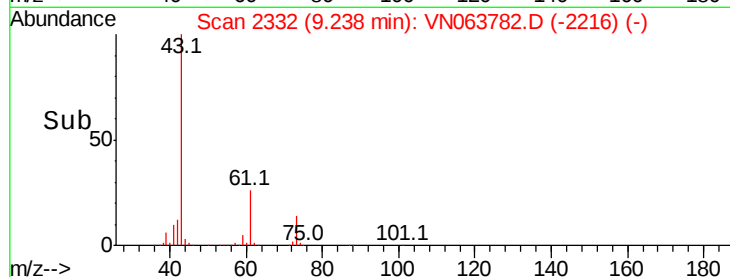
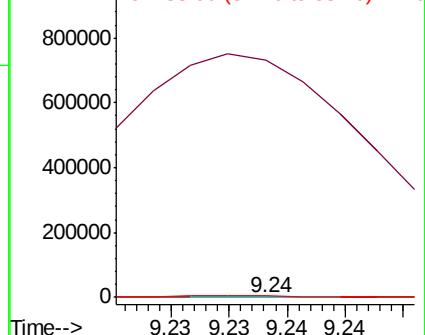
58 20859.4 58.9 88.3#



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: 49.421 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063782.D

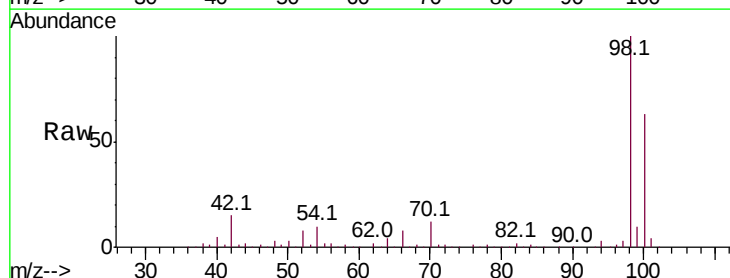
Acq: 1 Oct 2020 19:21

Tgt Ion: 98 Resp: 511324

Ion Ratio Lower Upper

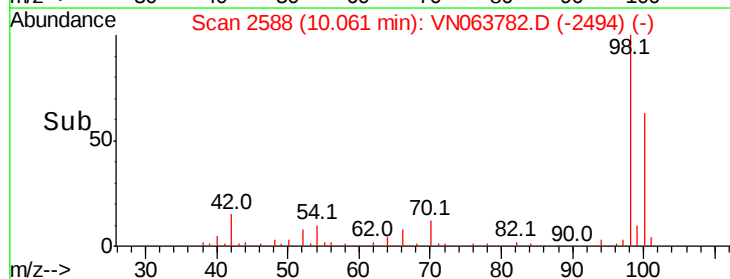
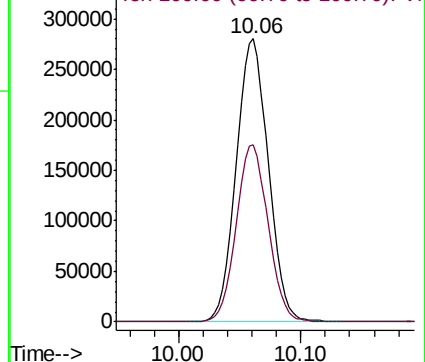
98 100

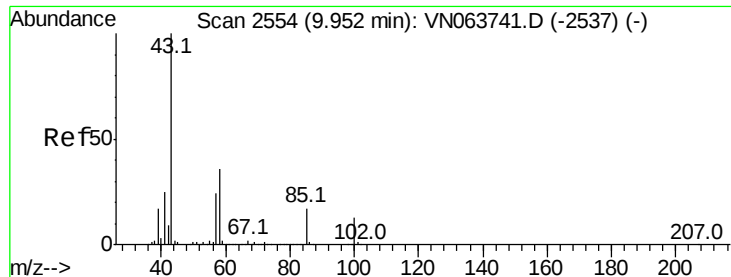
100 62.1 49.8 74.6



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: 1.832 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063782.D

Acq: 1 Oct 2020 19:21

Instrument :

MSVOA_N

ClientSampleId :

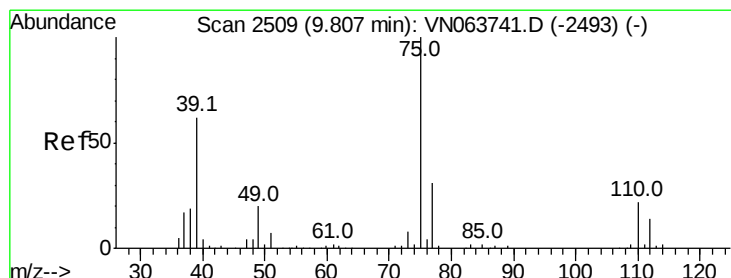
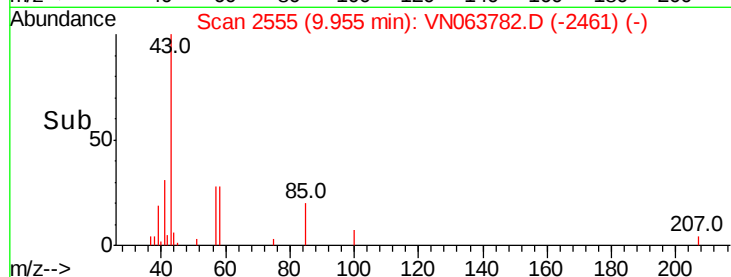
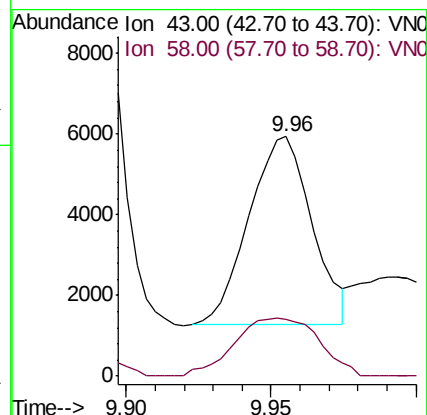
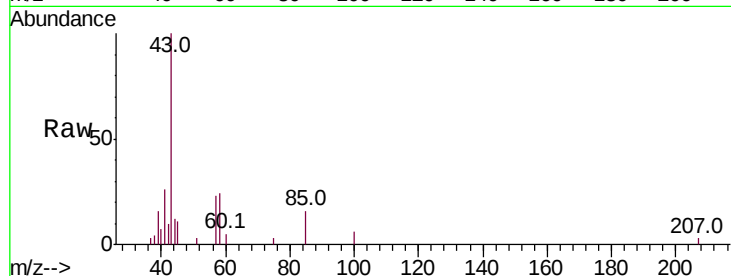
PB132009ZHE#04

Tot Ion: 43 Resp: 7021

Ion Ratio Lower Upper

43 100

58 41.3 28.4 42.6



#54

cis-1,3-Dichloropropene

Concen: 6.588 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063782.D

Acq: 1 Oct 2020 19:21

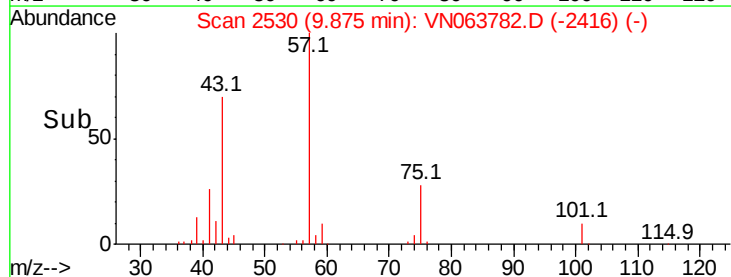
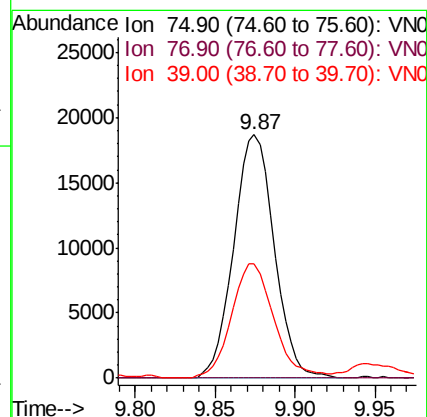
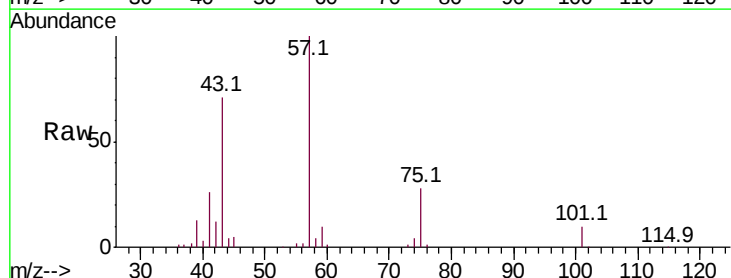
Tgt Ion: 75 Resp: 32275

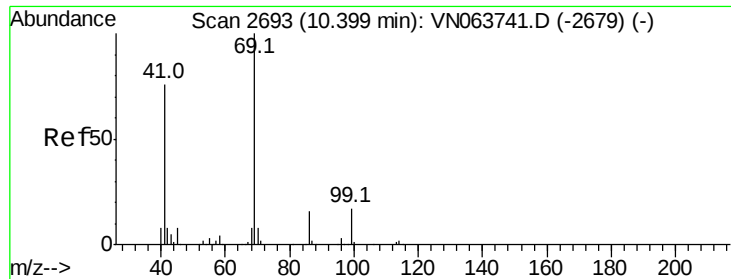
Ion Ratio Lower Upper

75 100

77 0.0 24.6 36.8#

39 46.8 49.7 74.5#





#56

Ethyl methacrylate

Concen: 0.539 ug/l

RT: 10.52 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN063782.D

Acq: 1 Oct 2020 19:21

Instrument :

MSVOA_N

ClientSampleId :

PB132009ZHE#04

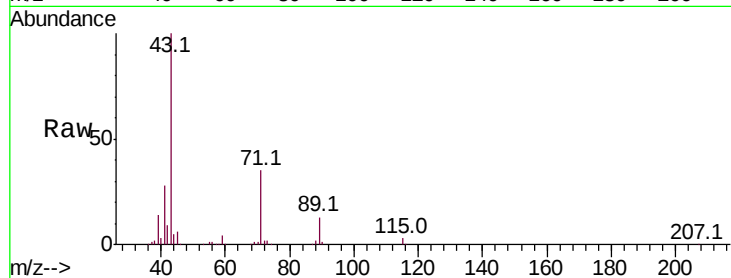
Tot Ion: 69 Resp: 2156

Ion Ratio Lower Upper

69 100

41 4371.5 61.1 91.7#

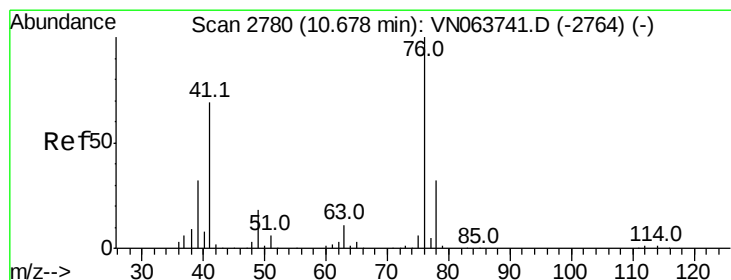
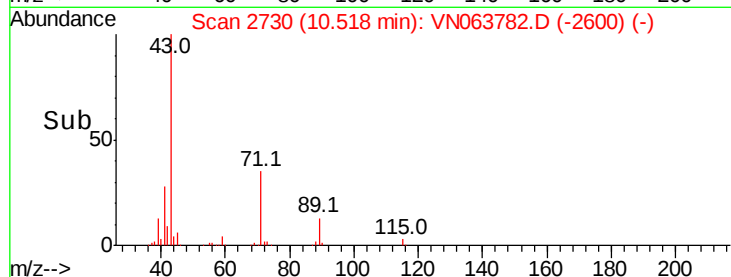
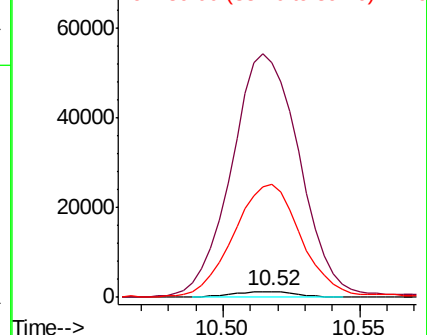
39 1987.2 42.2 63.4#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.192 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063782.D

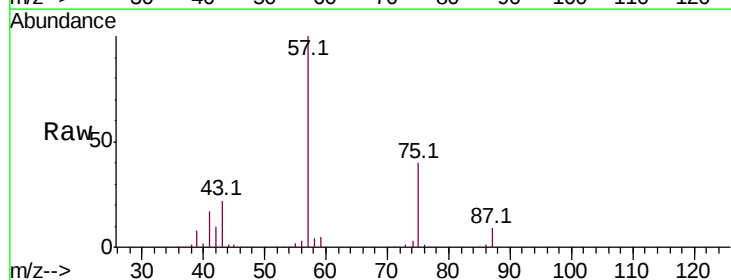
Acq: 1 Oct 2020 19:21

Tgt Ion: 76 Resp: 5693

Ion Ratio Lower Upper

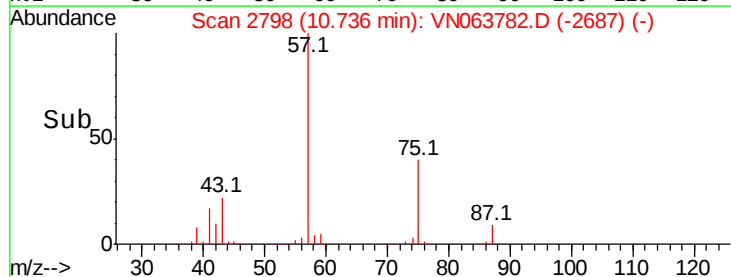
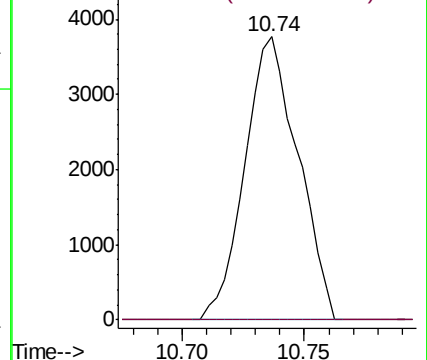
76 100

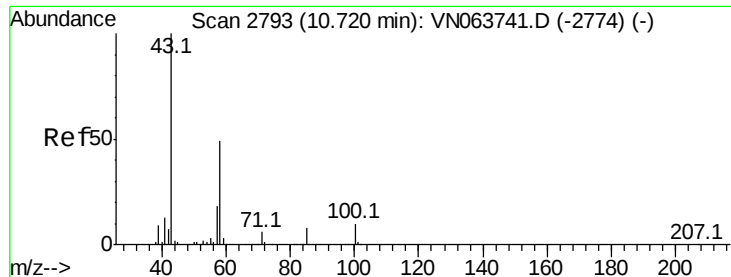
78 0.0 25.2 37.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

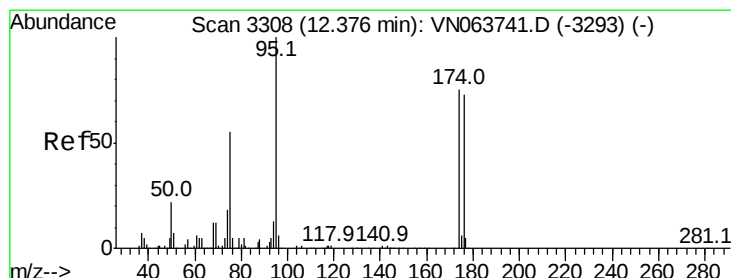
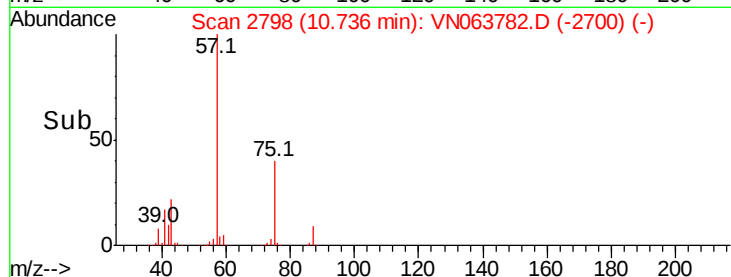
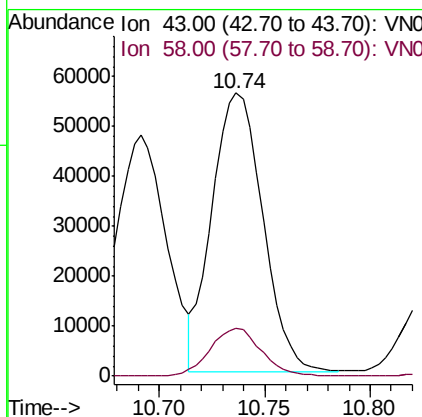
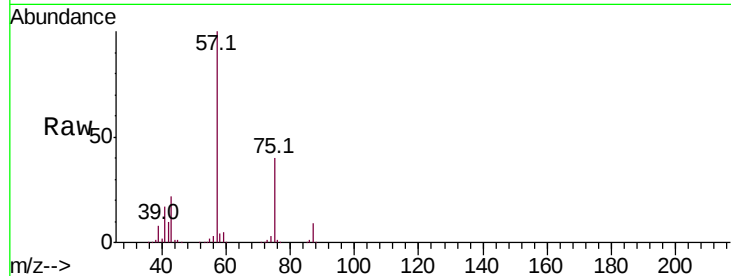




#59
2-Hexanone
Concen: 32.834 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN063782.D
Acq: 1 Oct 2020 19:21

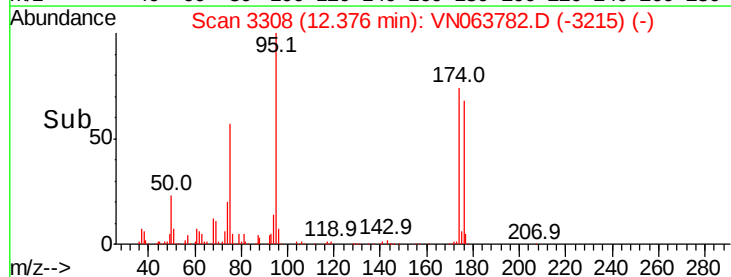
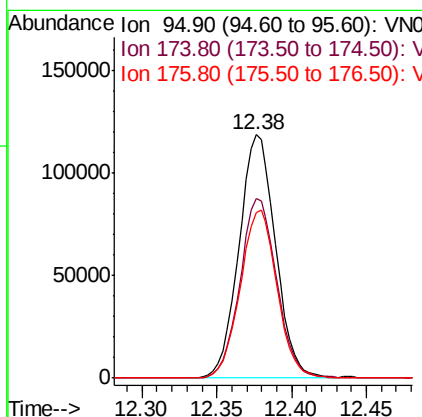
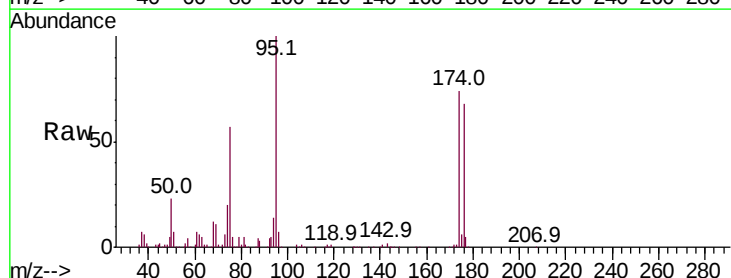
Instrument :
MSVOA_N
ClientSampleId :
PB132009ZHE#04

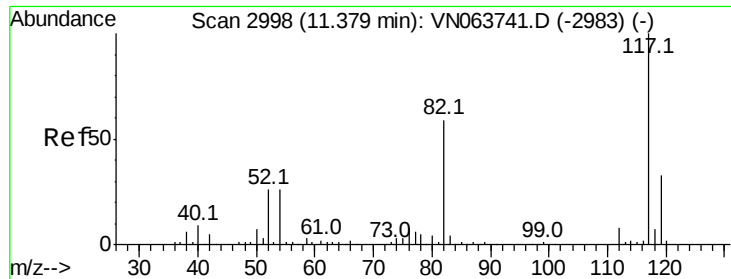
Tot Ion: 43 Resp: 93473
Ion Ratio Lower Upper
43 100
58 17.4 24.6 73.8#



#62
4-Bromofluorobenzene
Concen: 51.860 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN063782.D
Acq: 1 Oct 2020 19:21

Tgt Ion: 95 Resp: 201701
Ion Ratio Lower Upper
95 100
174 74.3 0.0 150.6
176 69.4 0.0 145.4

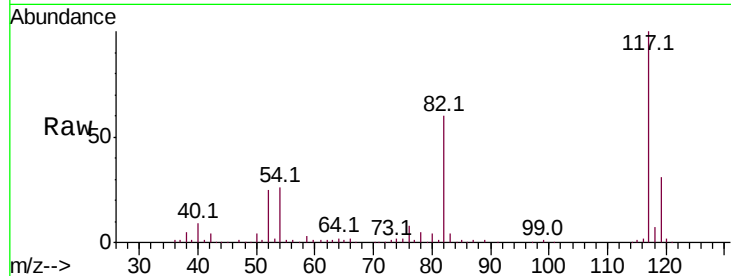




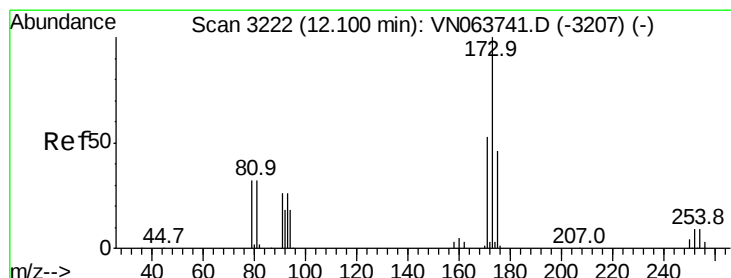
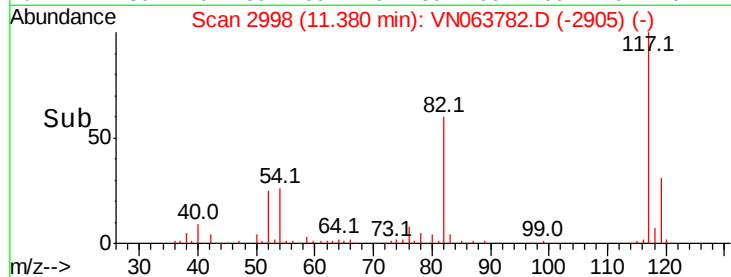
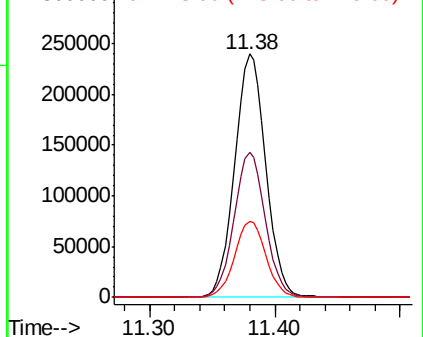
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063782.D
Acq: 1 Oct 2020 19:21

Instrument :
MSVOA_N
ClientSampleId :
PB132009ZHE#04

Tot Ion:117 Resp: 413487
Ion Ratio Lower Upper
117 100
82 59.7 47.4 71.2
119 31.4 26.4 39.6

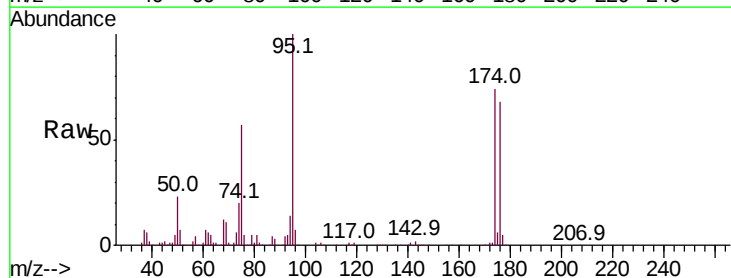


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

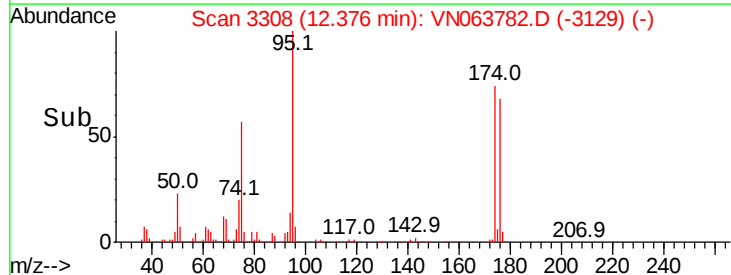
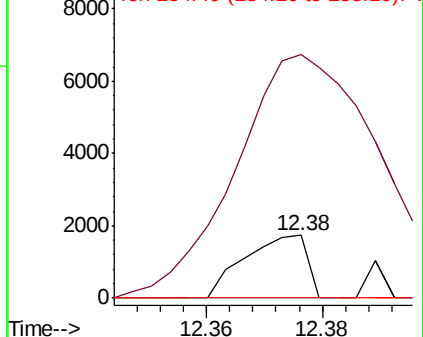


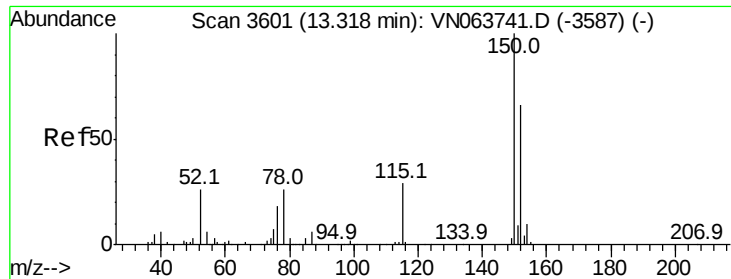
#71
Bromoform
Concen: 0.521 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.28 min
Lab File: VN063782.D
Acq: 1 Oct 2020 19:21

Tgt Ion:173 Resp: 1296
Ion Ratio Lower Upper
173 100
175 715.8 23.5 70.5#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): 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: VN063782.D

Acq: 1 Oct 2020 19:21

Instrument :

MSVOA_N

ClientSampleId :

PB132009ZHE#04

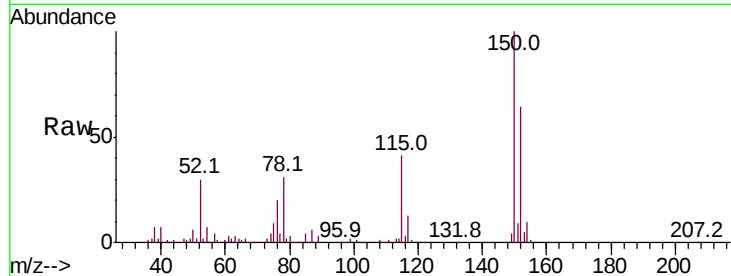
Tot Ion:152 Resp: 166921

Ion Ratio Lower Upper

152 100

115 61.5 31.3 93.8

150 157.3 0.0 341.8

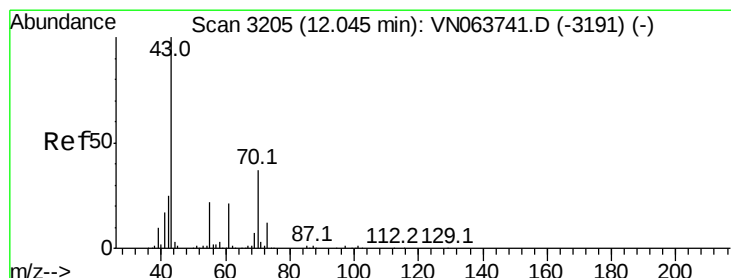
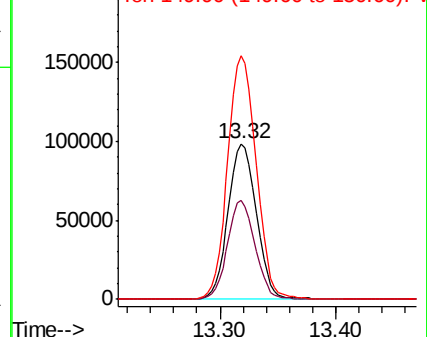
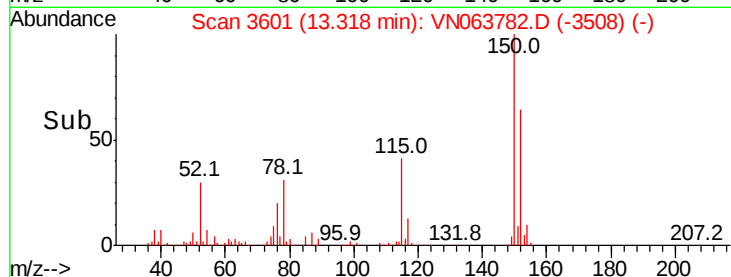


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 2.922 ug/l

RT: 12.00 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN063782.D

Acq: 1 Oct 2020 19:21

Tgt Ion: 43 Resp: 4178

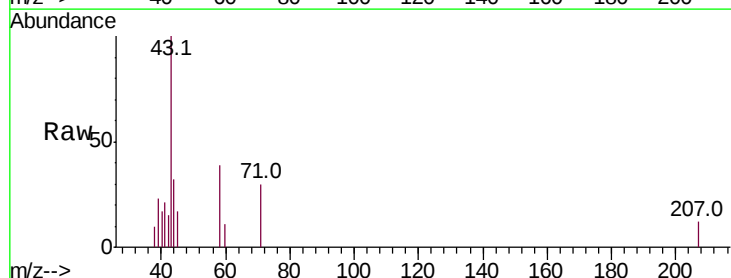
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 0.0 17.9 26.9#

61 0.0 17.0 25.4#



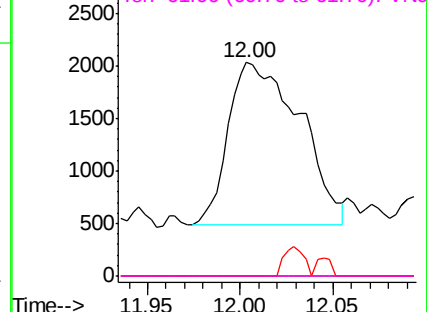
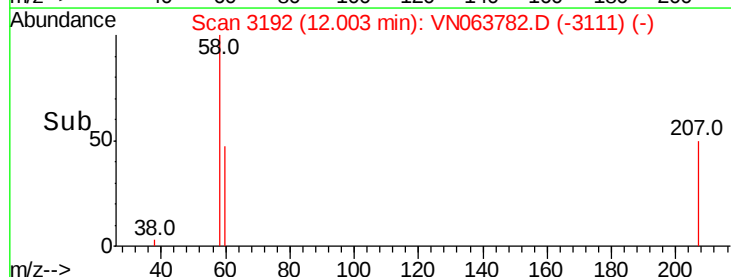
Abundance

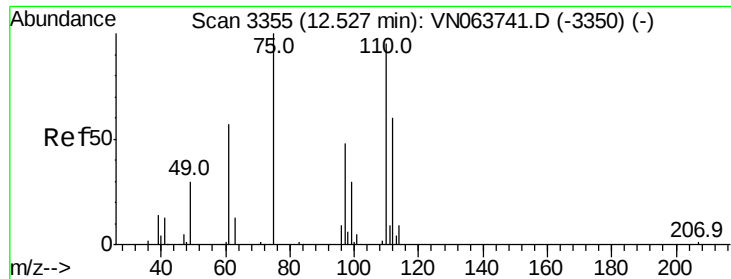
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 31.822 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063782.D

Acq: 1 Oct 2020 19:21

Instrument :

MSVOA_N

ClientSampleId :

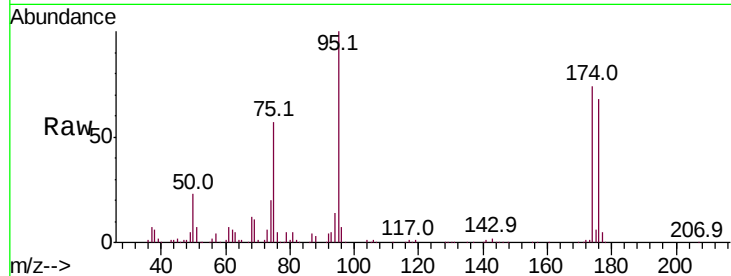
PB132009ZHE#04

Tot Ion: 75 Resp: 117091

Ion Ratio Lower Upper

75 100

77 0.9 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) (-)

12.38

80000

60000

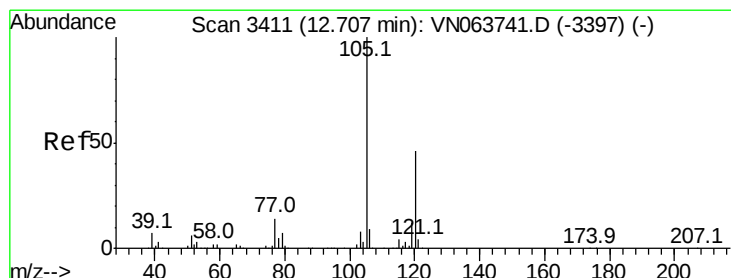
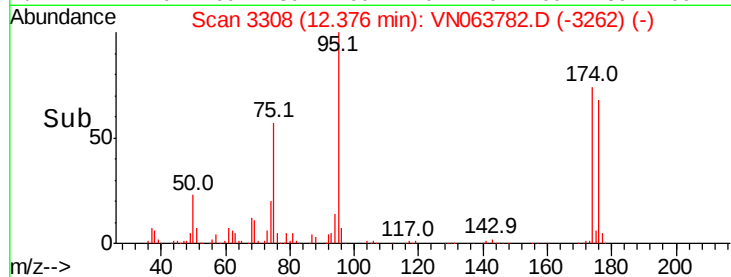
40000

20000

0

12.30 12.35 12.40 12.45

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.666 ug/l

RT: 12.71 min Scan# 3412

Delta R.T. 0.00 min

Lab File: VN063782.D

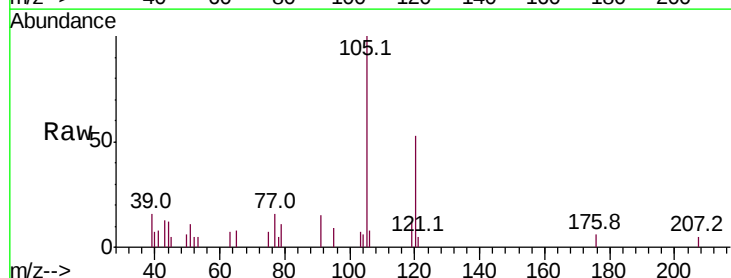
Acq: 1 Oct 2020 19:21

Tgt Ion: 105 Resp: 6807

Ion Ratio Lower Upper

105 100

120 50.1 23.3 69.9



Abundance Ion 105.00 (104.70 to 105.70): VN063741.D (-3397) (-)

Ion 120.00 (119.70 to 120.70): VN063741.D (-3397) (-)

12.71

4000

3000

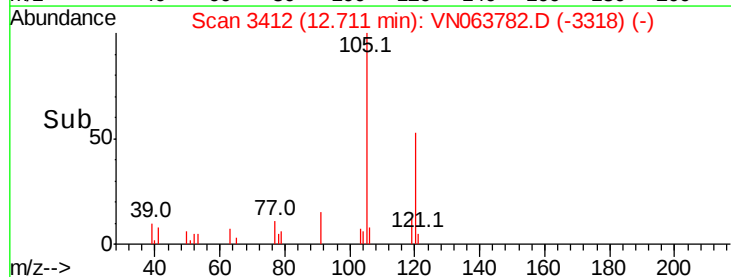
2000

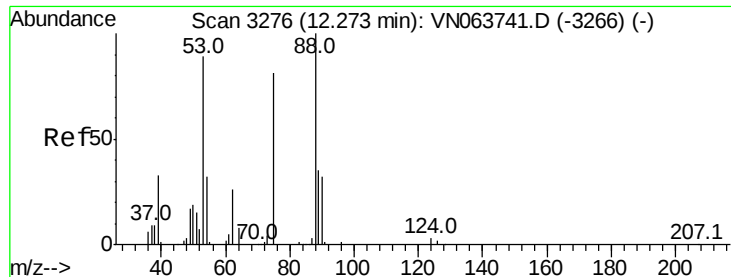
1000

0

12.65 12.70 12.75

Time-->

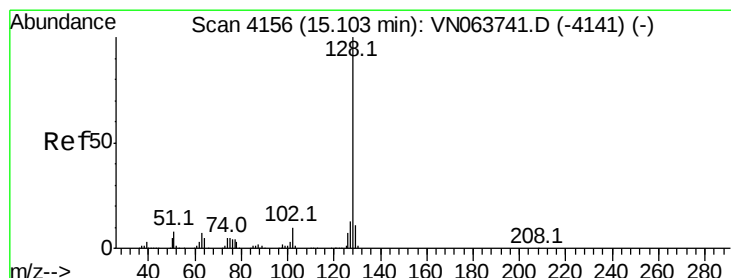
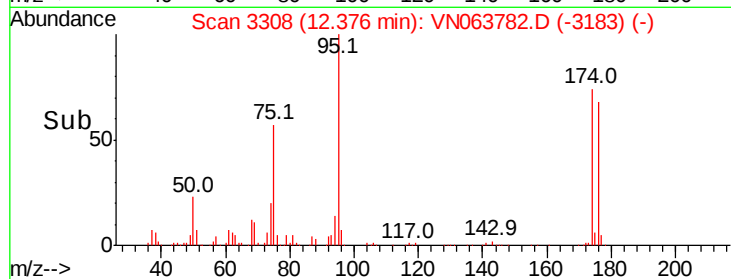
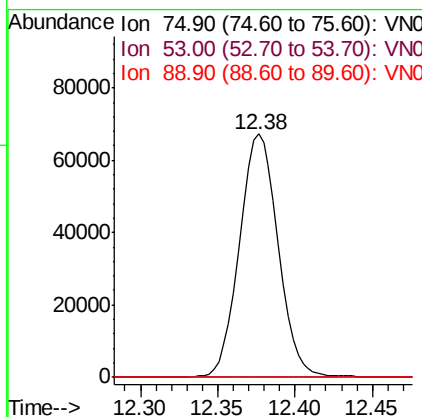
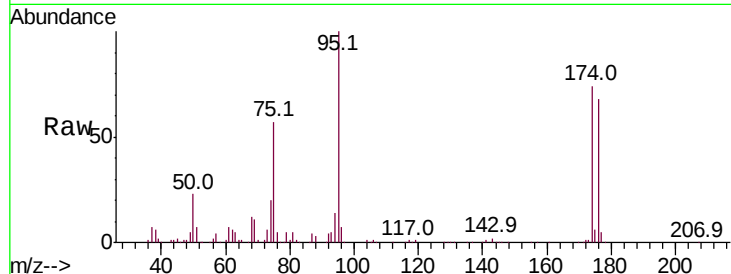




#81
trans-1,4-Dichloro-2-butene
Concen: 91.651 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.10 min
Lab File: VN063782.D
Acq: 1 Oct 2020 19:21

Instrument :
MSVOA_N
ClientSampleId :
PB132009ZHE#04

Tot Ion: 75 Resp: 117091
Ion Ratio Lower Upper
75 100
53 0.1 88.2 132.2#
89 0.0 36.0 54.0#



#95
Naphthalene
Concen: 1.928 ug/l
RT: 15.13 min Scan# 4163
Delta R.T. 0.02 min
Lab File: VN063782.D
Acq: 1 Oct 2020 19:21

Tgt Ion: 128 Resp: 29
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.7 13.1#

