

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100220\
 Data File : VN063842.D
 Acq On : 3 Oct 2020 00:44
 Operator : JC/MD
 Sample : L4242-21
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FIELD-BLANK

Quant Time: Oct 05 04:22:33 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	216796	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	394477	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	399610	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	157802	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	184136	51.41	ug/l	0.00
Spiked Amount			Recovery	=	102.82%	
35) Dibromofluoromethane	7.55	113	132775	48.51	ug/l	0.00
Spiked Amount			Recovery	=	97.02%	
50) Toluene-d8	10.06	98	504038	48.58	ug/l	0.00
Spiked Amount			Recovery	=	97.16%	
62) 4-Bromofluorobenzene	12.38	95	196393	50.35	ug/l	0.00
Spiked Amount			Recovery	=	100.70%	

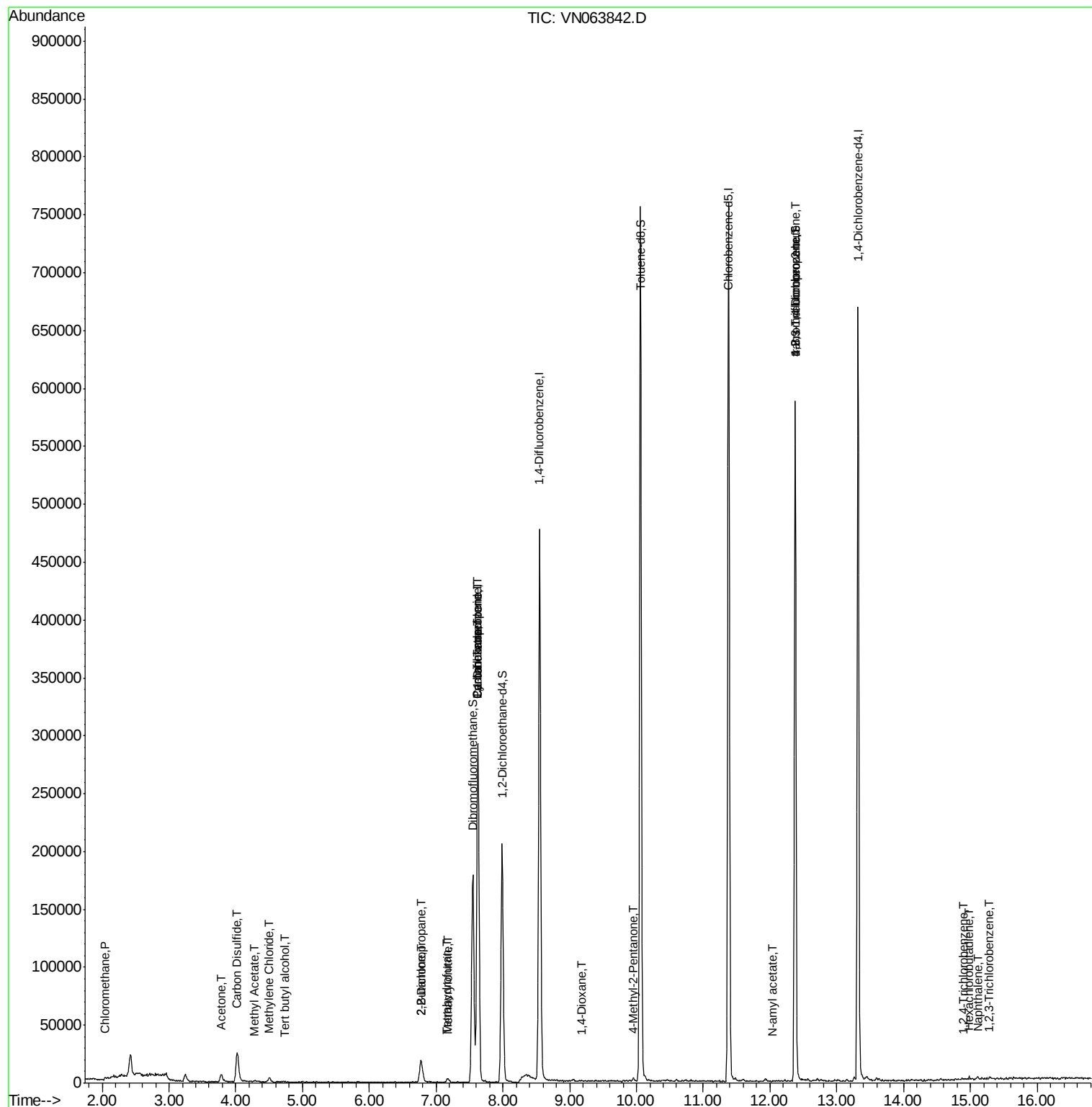
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	781	0.291	ug/l	90
11) Tert butyl alcohol	4.74	59	372	0.941	ug/l #	71
16) Acetone	3.78	43	12116	10.989	ug/l #	89
17) Carbon Disulfide	4.01	76	1913	1.020	ug/l #	76
18) Methyl Acetate	4.28	43	642	0.224	ug/l #	54
20) Methylene Chloride	4.50	84	2177	0.958	ug/l #	71
25) 2-Butanone	6.78	43	586	0.375	ug/l #	51
26) 2,2-Dichloropropane	6.77	77	986	0.226	ug/l #	54
29) Tetrahydrofuran	7.16	42	1356	1.293	ug/l #	56
31) Cyclohexane	7.63	56	6734	1.619	ug/l #	39
36) 1,1-Dichloropropene	7.63	75	20338	5.089	ug/l #	50
38) Carbon Tetrachloride	7.63	117	24252	5.412	ug/l #	15
41) Methacrylonitrile	7.18	41	1490	0.844	ug/l #	25
49) 1,4-Dioxane	9.17	88	71	1.544	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	2289	0.596	ug/l #	69
74) N-amyl acetate	12.04	43	494	2.304	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	111023	31.916	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	111023	91.924	ug/l #	6
93) 1,2,4-Trichlorobenzene	14.89	180	535	1.924	ug/l #	37
94) Hexachlorobutadiene	14.98	225	658	0.546	ug/l #	69
95) Naphthalene	15.11	128	2152	2.167	ug/l #	85
96) 1,2,3-Trichlorobenzene	15.29	180	681	1.815	ug/l #	78

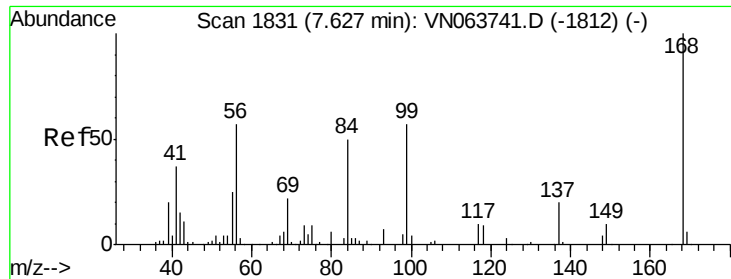
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 05 04:22:33 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
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: VN063842.D

Acq: 3 Oct 2020 00:44

Instrument :

MSVOA_N

ClientSampleId :

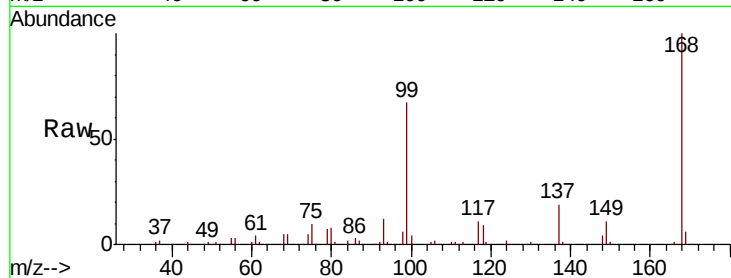
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Tot Ion:168 Resp: 216796

Ion Ratio Lower Upper

168 100

99 66.5 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

80000

60000

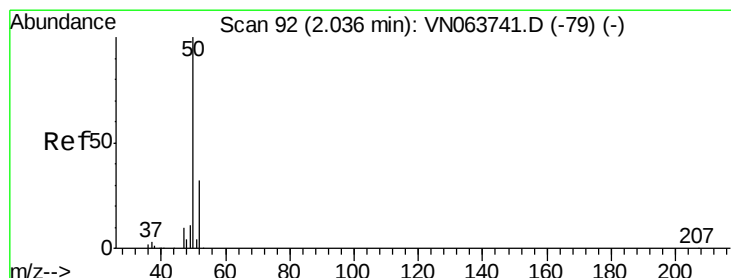
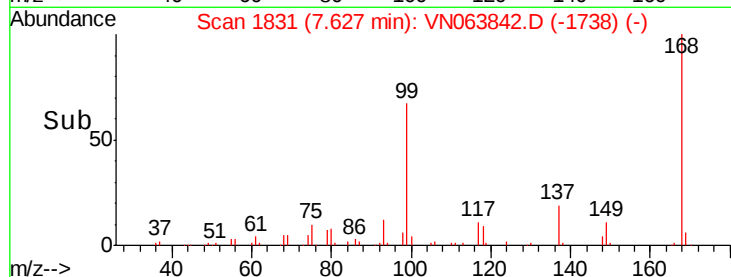
40000

20000

0

7.55 7.60 7.65 7.70

Time-->



#3

Chloromethane

Concen: 0.291 ug/l

RT: 2.04 min Scan# 93

Delta R.T. 0.00 min

Lab File: VN063842.D

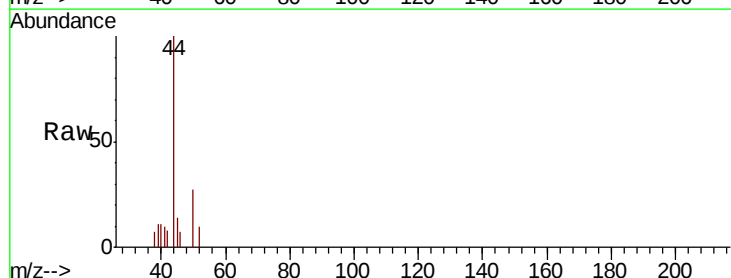
Acq: 3 Oct 2020 00:44

Tgt Ion: 50 Resp: 781

Ion Ratio Lower Upper

50 100

52 38.2 25.8 38.8



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

600

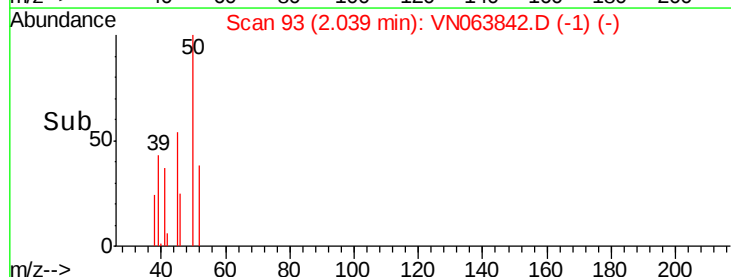
400

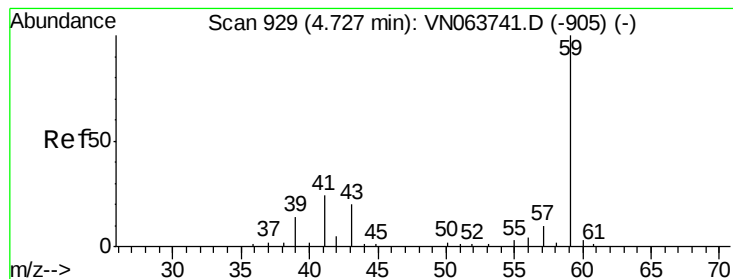
200

0

2.00 2.02 2.04 2.06

Time-->



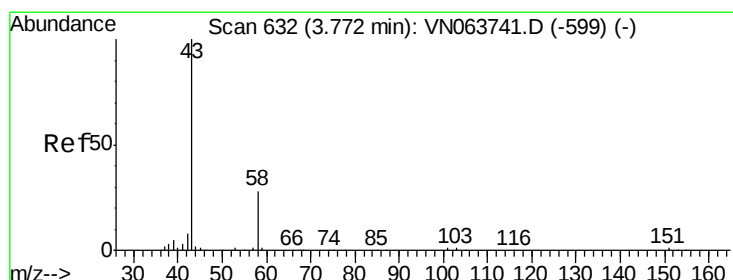
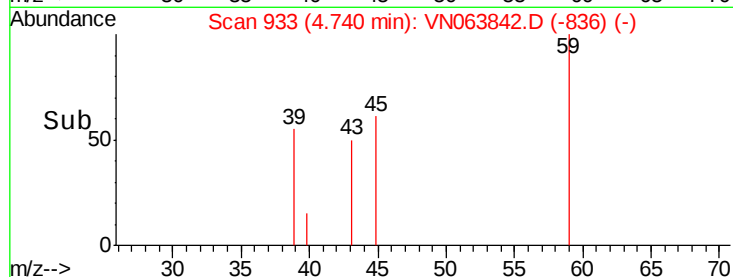
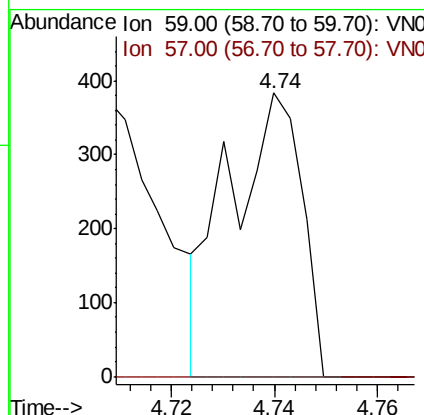
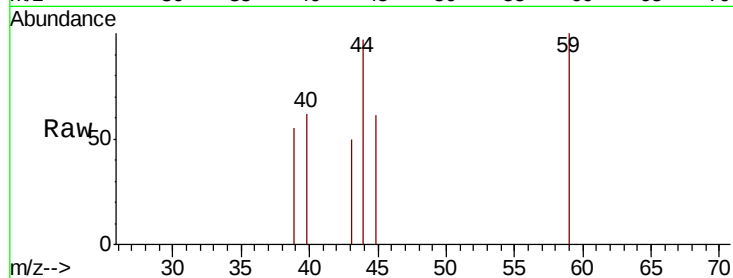


#11

Tert butyl alcohol
 Concen: 0.941 ug/l
 RT: 4.74 min Scan# 933
 Delta R.T. 0.01 min
 Lab File: VN063842.D
 Acq: 3 Oct 2020 00:44

Instrument :
 MSVOA_N
 ClientSampled :
 FIELD-BLANK

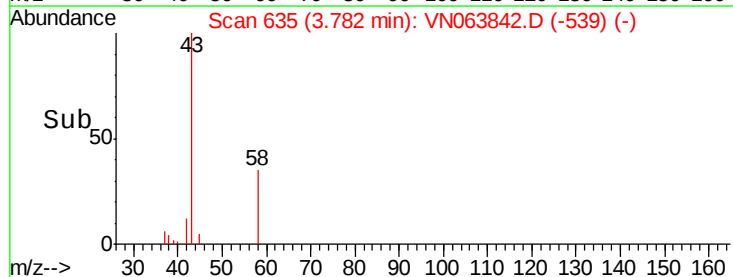
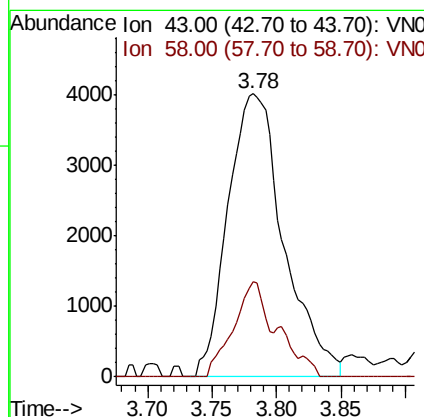
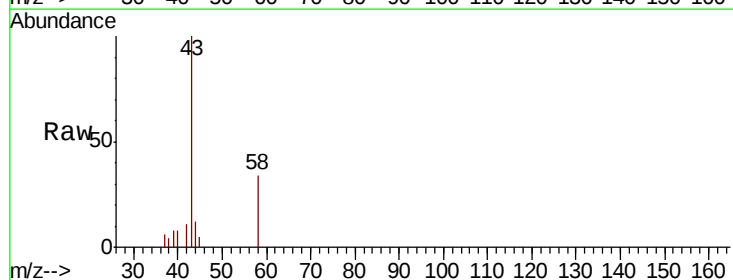
Tot Ion: 59 Resp: 372
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.7 13.1#

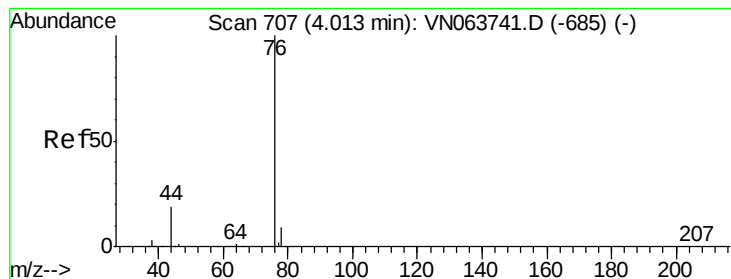


#16

Acetone
 Concen: 10.989 ug/l
 RT: 3.78 min Scan# 635
 Delta R.T. 0.01 min
 Lab File: VN063842.D
 Acq: 3 Oct 2020 00:44

Tgt Ion: 43 Resp: 12116
 Ion Ratio Lower Upper
 43 100
 58 33.6 22.3 33.5#





#17

Carbon Disulfide

Concen: 1.020 ug/l

RT: 4.01 min Scan# 707

Delta R.T. 0.00 min

Lab File: VN063842.D

Acq: 3 Oct 2020 00:44

Instrument :

MSVOA_N

ClientSampled :

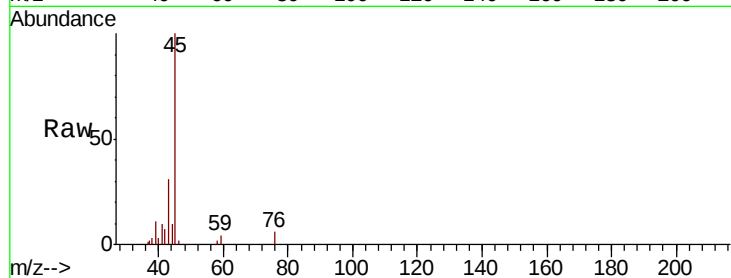
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Tot Ion: 76 Resp: 1913

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

4.01

800

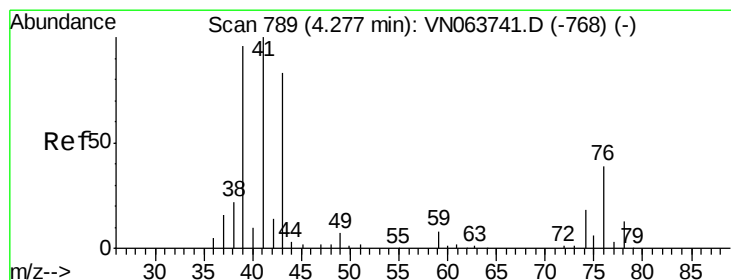
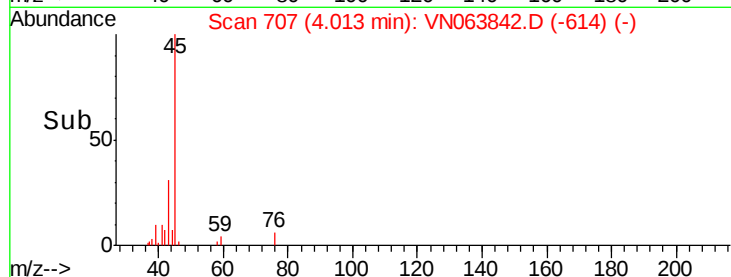
600

400

200

0

Time--> 3.95 4.00 4.05



#18

Methyl Acetate

Concen: 0.224 ug/l

RT: 4.28 min Scan# 790

Delta R.T. 0.00 min

Lab File: VN063842.D

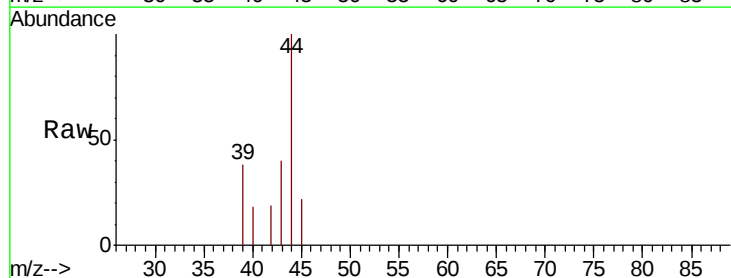
Acq: 3 Oct 2020 00:44

Tgt Ion: 43 Resp: 642

Ion Ratio Lower Upper

43 100

74 0.0 17.4 26.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.28

400

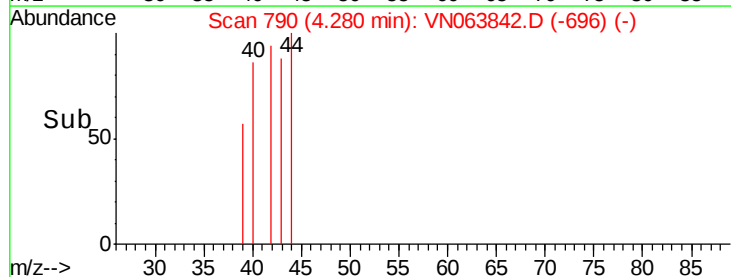
300

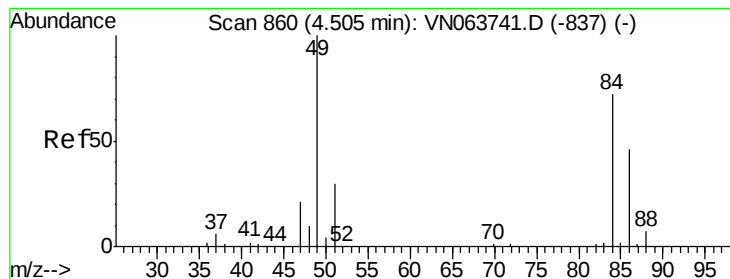
200

100

0

Time--> 4.24 4.26 4.28 4.30





#20

Methvlene Chloride

Concen: 0.958 ug/l

RT: 4.50 min Scan# 859

Delta R.T. -0.00 min

Lab File: VN063842.D

Acq: 3 Oct 2020 00:44

Instrument :

MSVOA_N

ClientSampled :

FIELD-BLANK

Tot Ion: 84 Resp: 2177

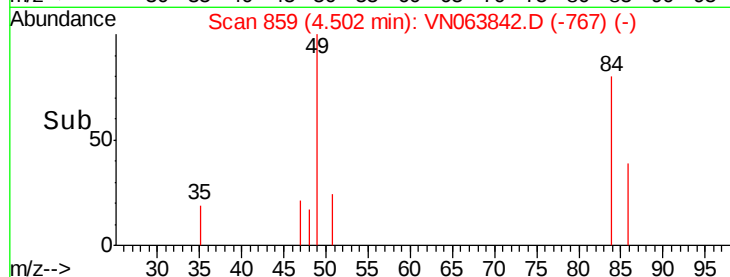
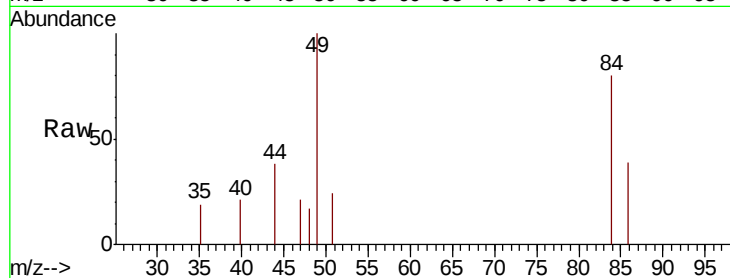
Ion Ratio Lower Upper

84 100

49 94.3 110.4 165.6#

51 29.4 33.3 49.9#

86 48.6 50.7 76.1#

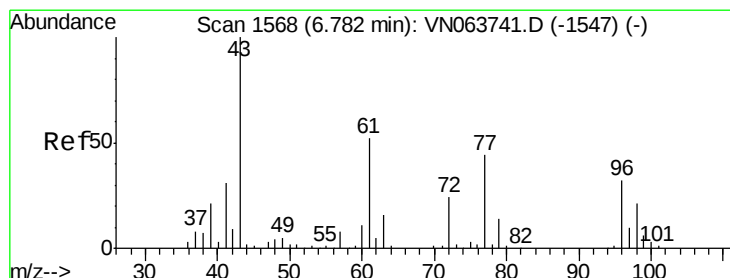
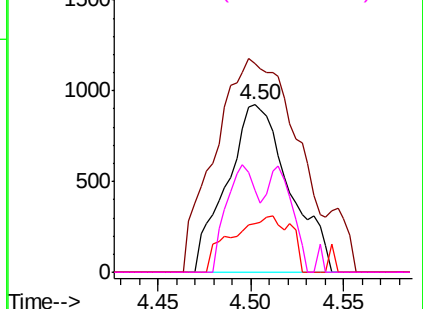


Abundance Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO



#25

2-Butanone

Concen: 0.375 ug/l

RT: 6.78 min Scan# 1566

Delta R.T. -0.01 min

Lab File: VN063842.D

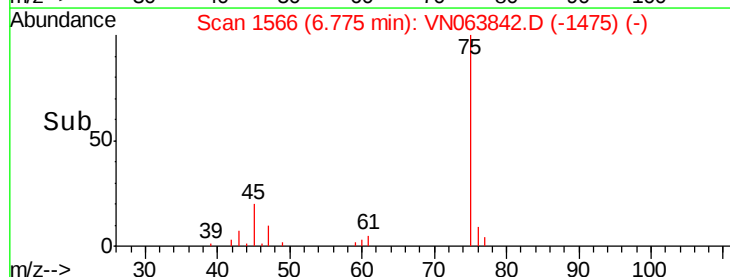
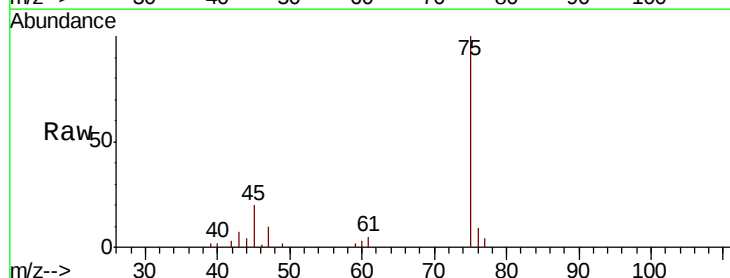
Acq: 3 Oct 2020 00:44

Tgt Ion: 43 Resp: 586

Ion Ratio Lower Upper

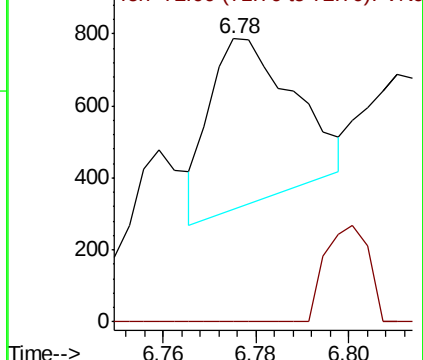
43 100

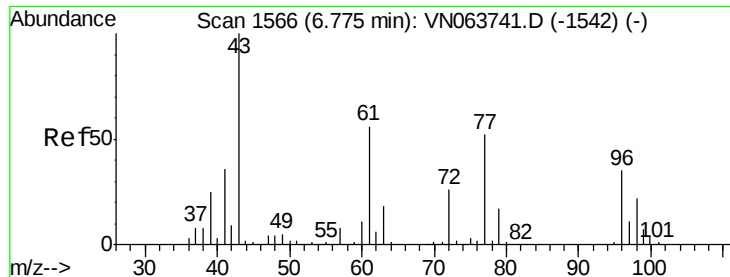
72 0.0 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO





#26

2,2-Dichloropropane

Concen: 0.226 ug/l

RT: 6.77 min Scan# 1565

Delta R.T. -0.00 min

Lab File: VN063842.D

Acq: 3 Oct 2020 00:44

Instrument :

MSVOA_N

ClientSampled :

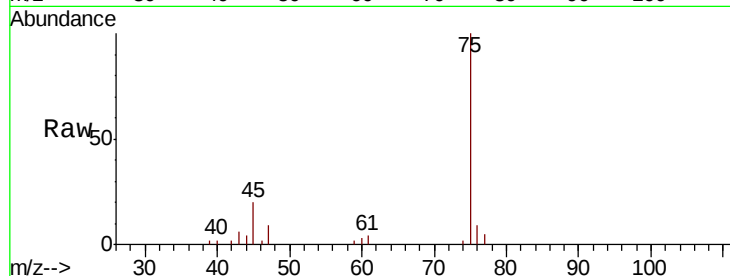
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Tot Ion: 77 Resp: 986

Ion Ratio Lower Upper

77 100

97 0.0 10.8 32.3#



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0

6.77

500

400

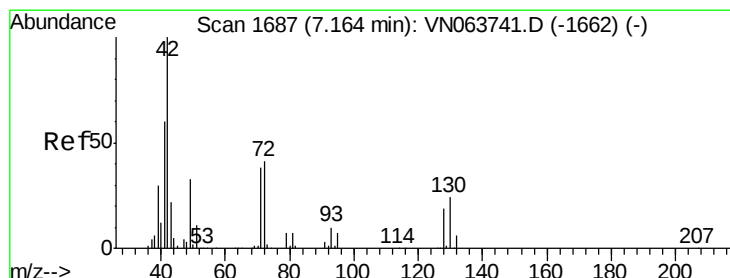
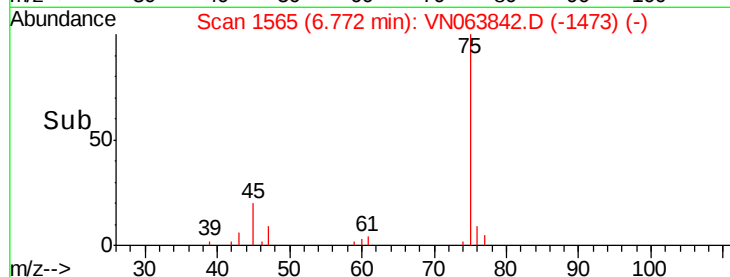
300

200

100

0

Time-->



#29

Tetrahydrofuran

Concen: 1.293 ug/l

RT: 7.16 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN063842.D

Acq: 3 Oct 2020 00:44

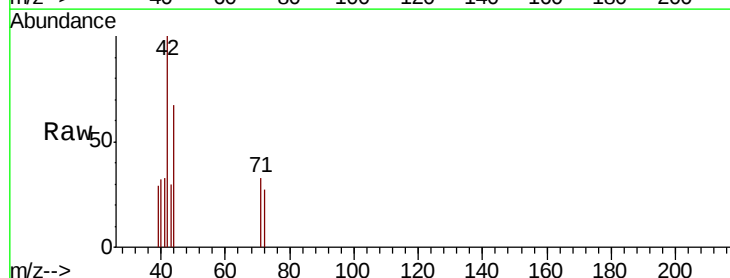
Tgt Ion: 42 Resp: 1356

Ion Ratio Lower Upper

42 100

72 0.0 32.8 49.2#

71 26.0 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

1200

1000

800

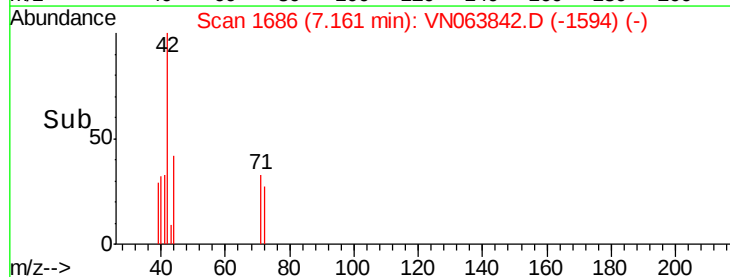
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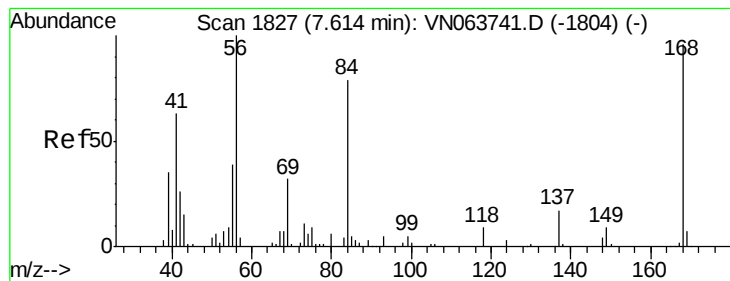
400

200

0

Time-->





#31

Cyclohexane

Concen: 1.619 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN063842.D

Acq: 3 Oct 2020 00:44

Instrument :

MSVOA_N

ClientSampleId :

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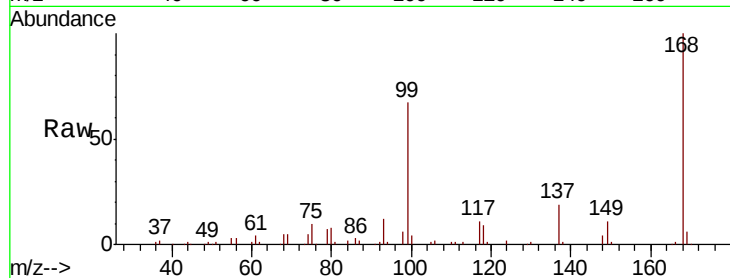
Tot Ion: 56 Resp: 6734

Ion Ratio Lower Upper

56 100

69 147.6 25.4 38.2#

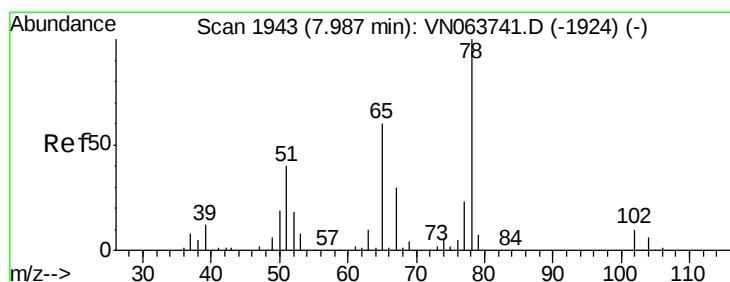
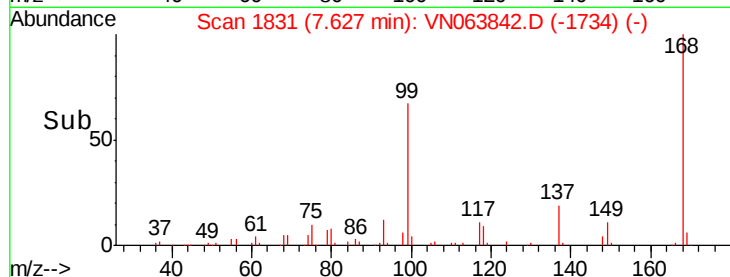
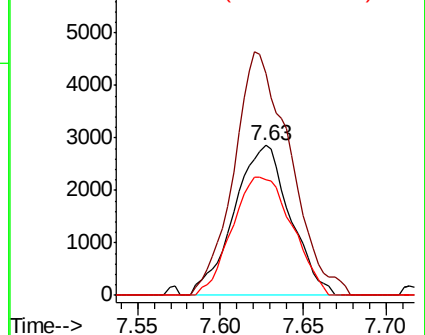
84 77.3 63.3 94.9



Abundance Ion 56.00 (55.70 to 56.70): VN063741.D (-1804) (-)

Ion 69.00 (68.70 to 69.70): VN063741.D (-1804) (-)

Ion 84.00 (83.70 to 84.70): VN063741.D (-1804) (-)



#33

1,2-Dichloroethane-d4

Concen: 51.411 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN063842.D

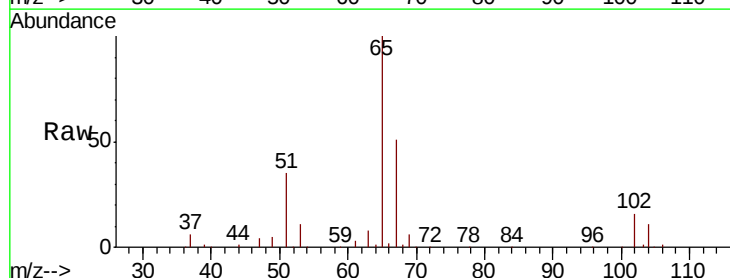
Acq: 3 Oct 2020 00:44

Tgt Ion: 65 Resp: 184136

Ion Ratio Lower Upper

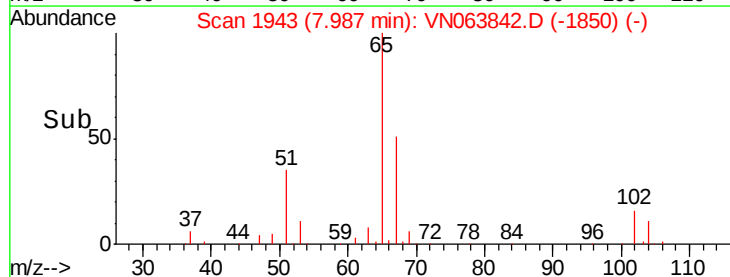
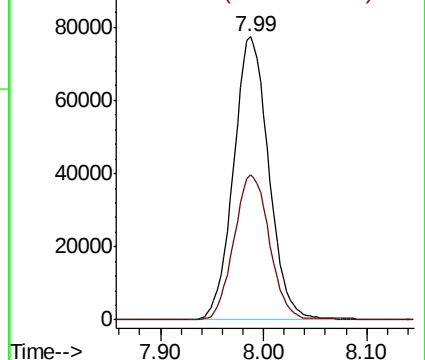
65 100

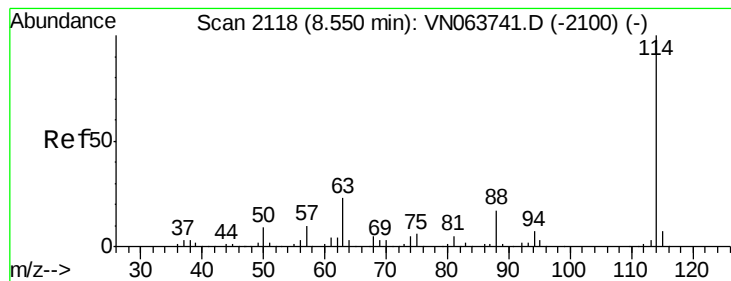
67 51.6 0.0 99.6



Abundance Ion 64.90 (64.60 to 65.60): VN063741.D (-1924) (-)

Ion 66.90 (66.60 to 67.60): VN063741.D (-1924) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN063842.D

Acq: 3 Oct 2020 00:44

Instrument :

MSVOA_N

ClientSampleId :

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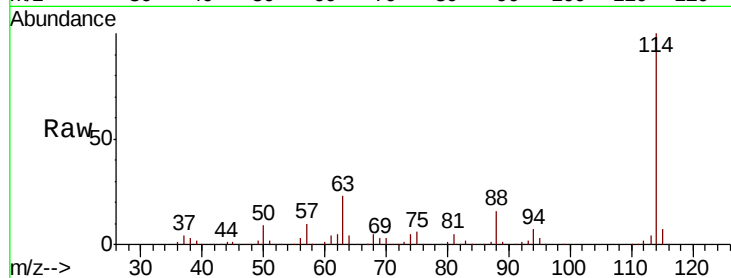
Tot Ion:114 Resp: 394477

Ion Ratio Lower Upper

114 100

63 23.1 0.0 45.0

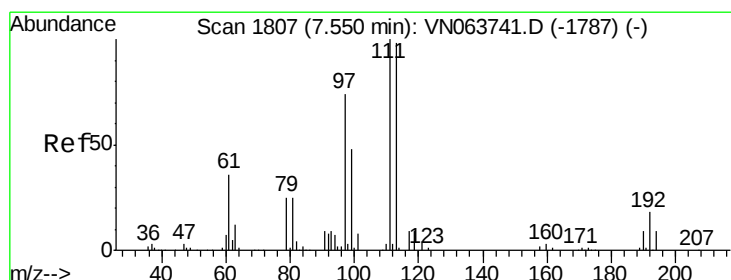
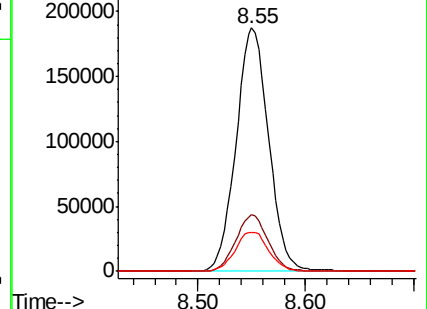
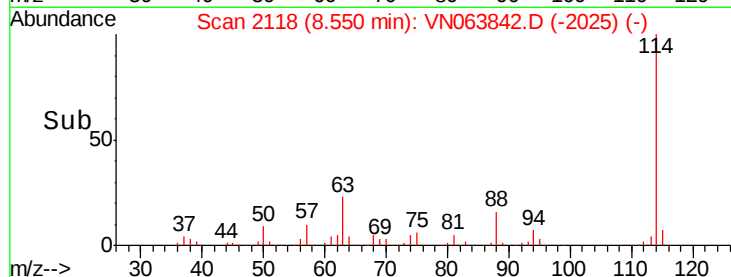
88 16.0 0.0 34.0



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: 48.508 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063842.D

Acq: 3 Oct 2020 00:44

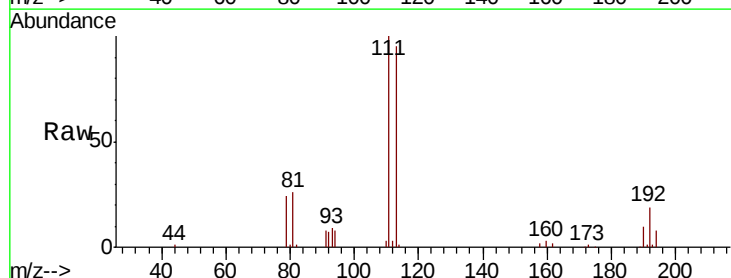
Tgt Ion:113 Resp: 132775

Ion Ratio Lower Upper

113 100

111 101.9 81.8 122.8

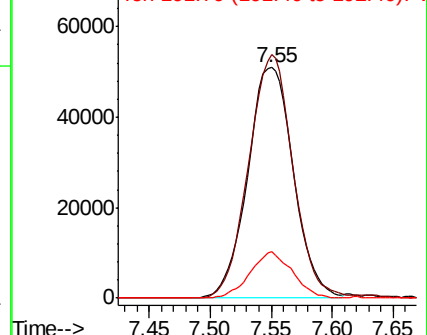
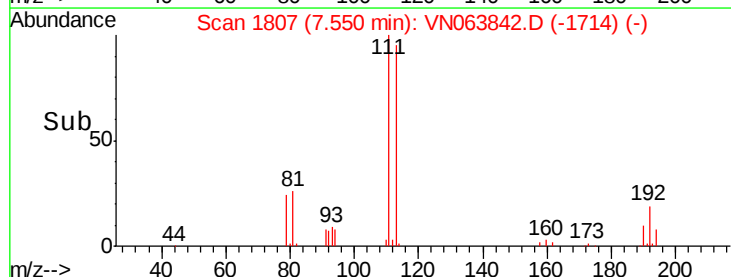
192 18.5 14.2 21.2

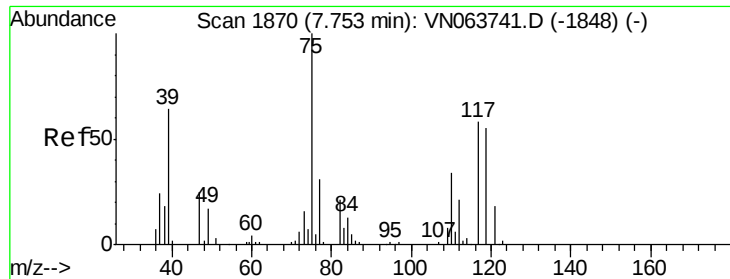


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

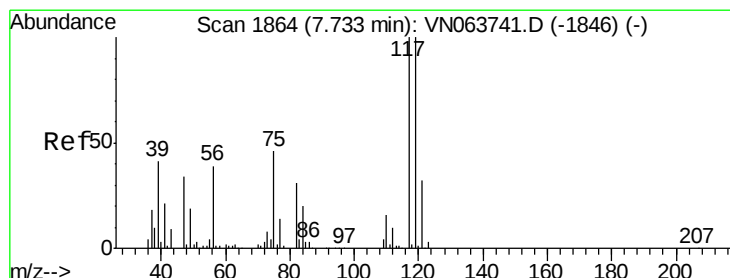
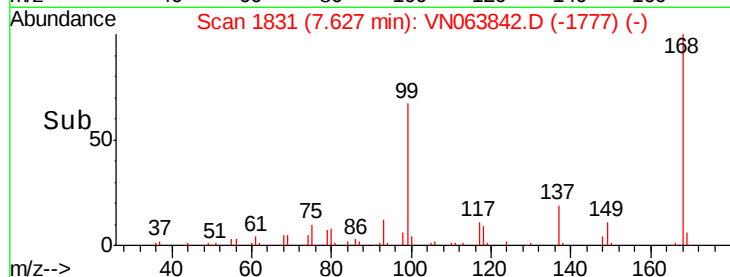
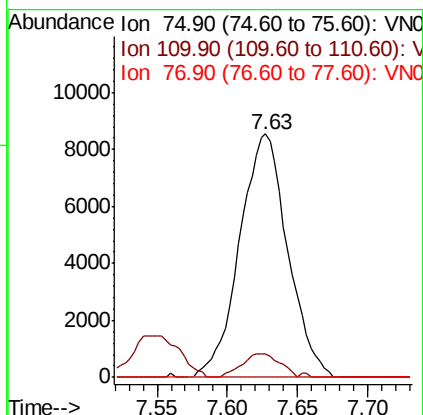
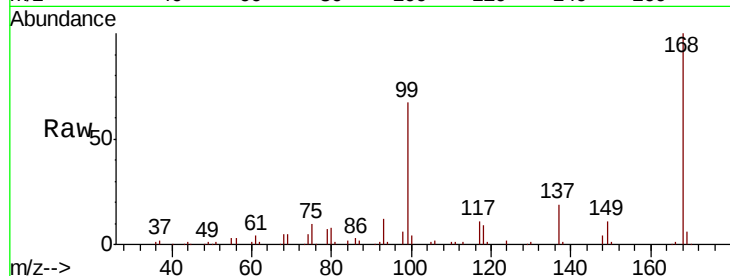




#36
 1,1-Dichloropropene
 Concen: 5.089 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063842.D
 Acq: 3 Oct 2020 00:44

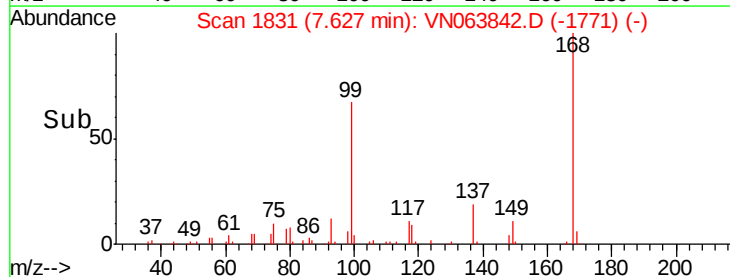
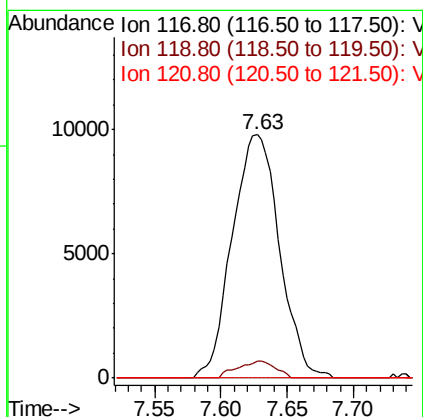
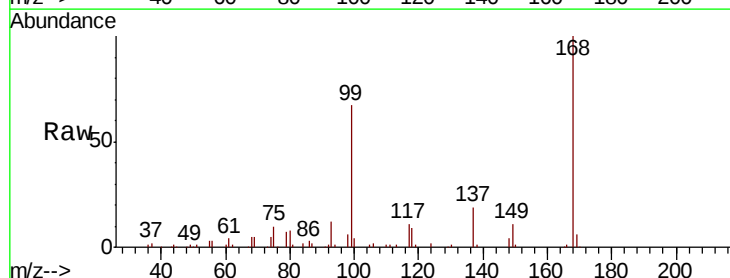
Instrument :
 MSVOA_N
 ClientSampleId :
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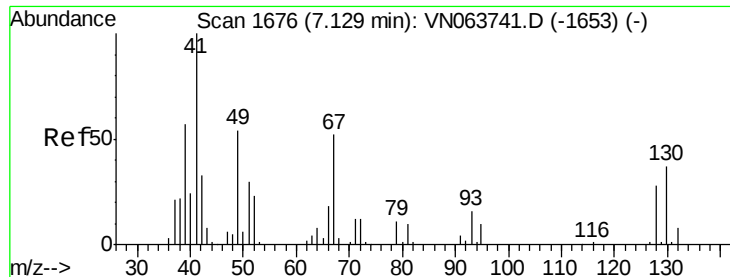
Tot Ion: 75 Resp: 20338
 Ion Ratio Lower Upper
 75 100
 110 7.8 16.9 50.6#
 77 0.0 24.5 36.7#



#38
 Carbon Tetrachloride
 Concen: 5.412 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN063842.D
 Acq: 3 Oct 2020 00:44

Tgt Ion: 117 Resp: 24252
 Ion Ratio Lower Upper
 117 100
 119 6.8 80.1 120.1#
 121 0.0 25.7 38.5#

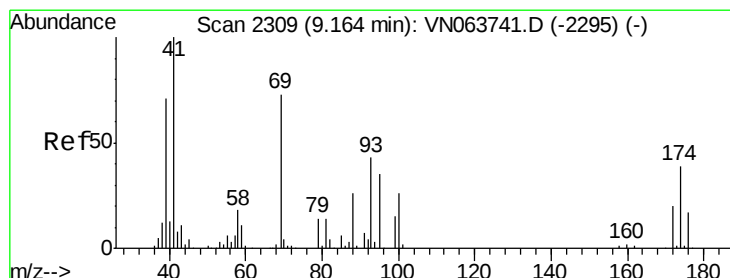
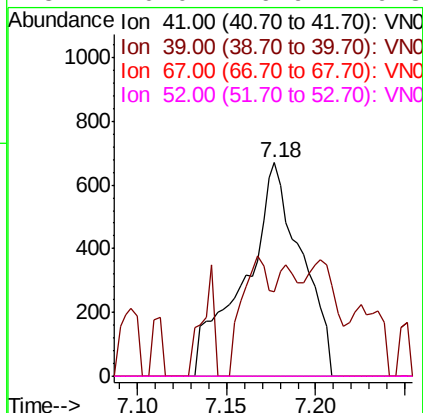
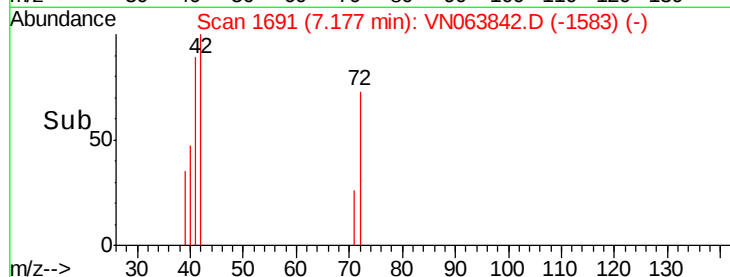
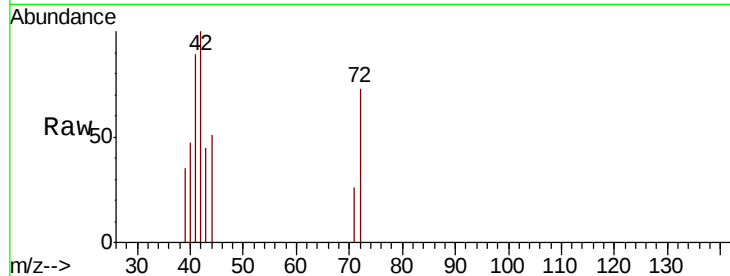




#41
Methacrylonitrile
Concen: 0.844 ug/l
RT: 7.18 min Scan# 1691
Delta R.T. 0.05 min
Lab File: VN063842.D
Acq: 3 Oct 2020 00:44

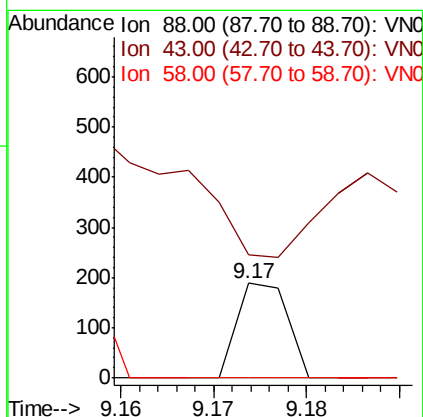
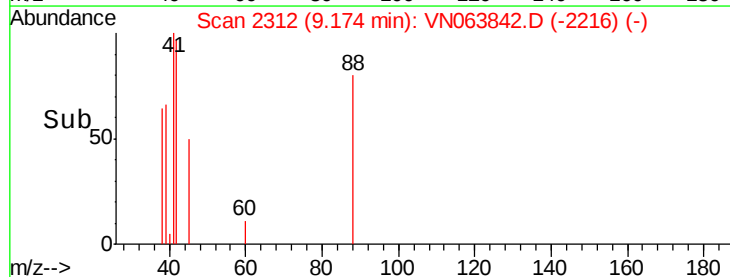
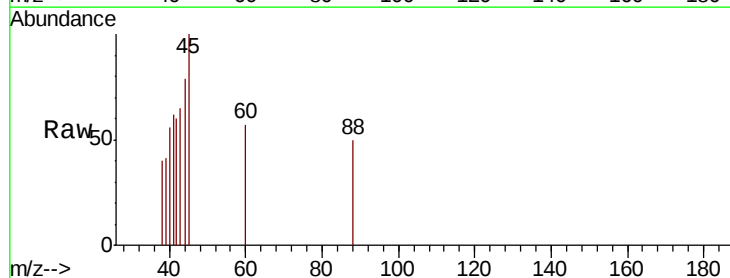
Instrument :
MSVOA_N
ClientSampled :
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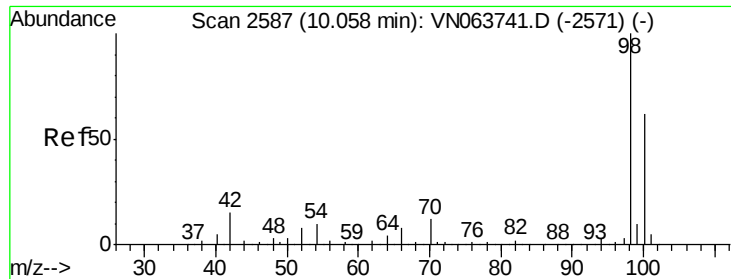
Tot Ion: 41 Resp: 1490
Ion Ratio Lower Upper
41 100
39 3.0 42.5 63.7#
67 0.0 57.4 86.2#
52 0.0 26.9 40.3#



#49
1,4-Dioxane
Concen: 1.544 ug/l
RT: 9.17 min Scan# 2312
Delta R.T. 0.01 min
Lab File: VN063842.D
Acq: 3 Oct 2020 00:44

Tgt Ion: 88 Resp: 71
Ion Ratio Lower Upper
88 100
43 209.9 33.1 49.7#
58 0.0 58.9 88.3#





#50

Toluene-d8

Concen: 48.576 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063842.D

Acq: 3 Oct 2020 00:44

Instrument :

MSVOA_N

ClientSampled :

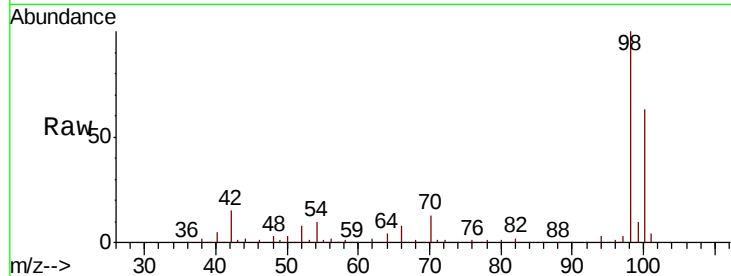
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Tot Ion: 98 Resp: 504038

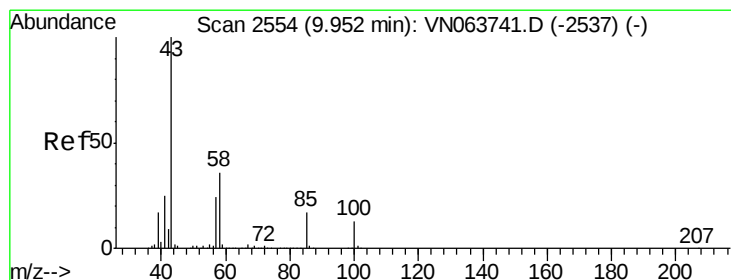
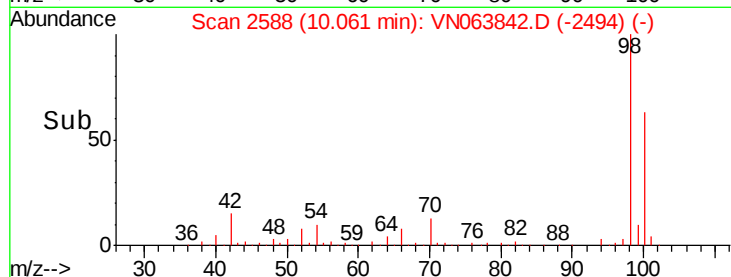
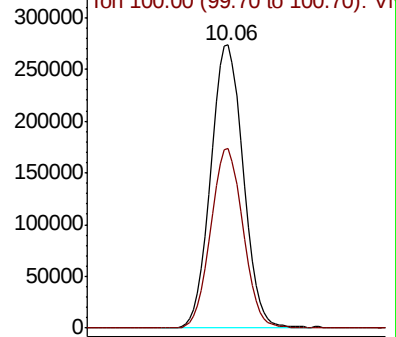
Ion Ratio Lower Upper

98 100

100 63.2 49.8 74.6



Abundance Ion 98.00 (97.70 to 98.70): VN063741.D (-2571) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.596 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063842.D

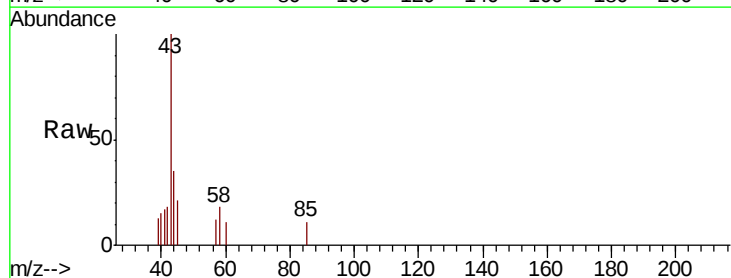
Acq: 3 Oct 2020 00:44

Tgt Ion: 43 Resp: 2289

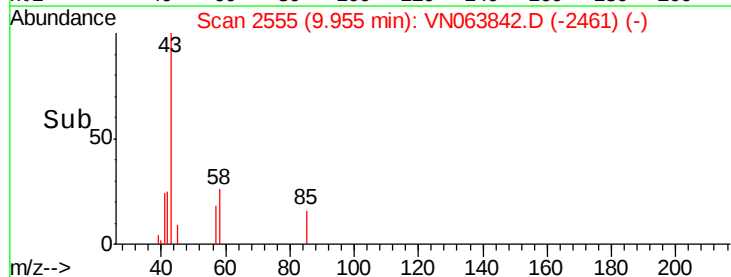
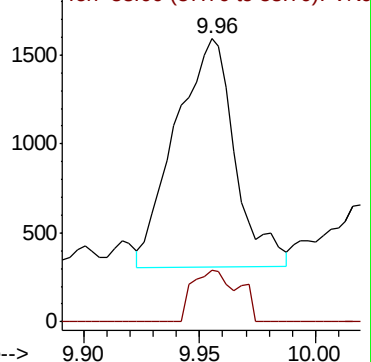
Ion Ratio Lower Upper

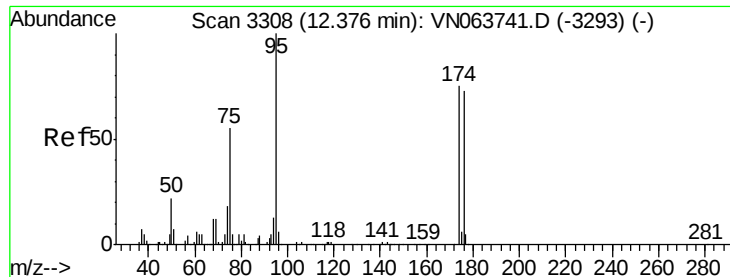
43 100

58 17.5 28.4 42.6#



Abundance Ion 43.00 (42.70 to 43.70): VN063741.D (-2537) (-)





#62

4-Bromofluorobenzene

Concen: 50.350 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN063842.D

Acq: 3 Oct 2020 00:44

Instrument :

MSVOA_N

ClientSampled :

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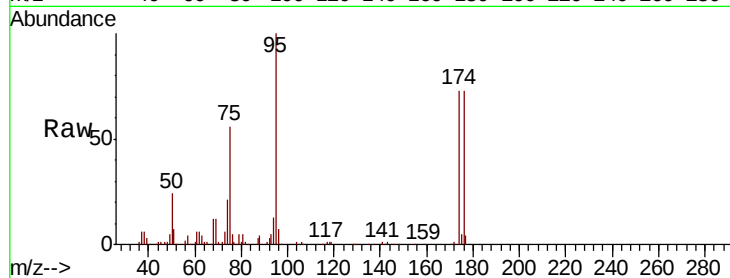
Tot Ion: 95 Resp: 196393

Ion Ratio Lower Upper

95 100

174 74.4 0.0 150.6

176 71.7 0.0 145.4



Abundance Ion 94.90 (94.60 to 95.60): VN063842.D (-2905) (-)

Ion 173.80 (173.50 to 174.50): VN063842.D (-2905) (-)

Ion 175.80 (175.50 to 176.50): VN063842.D (-2905) (-)

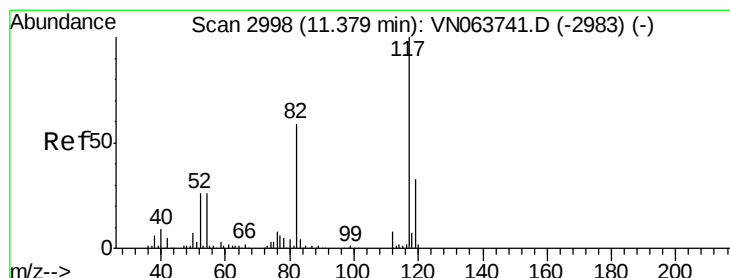
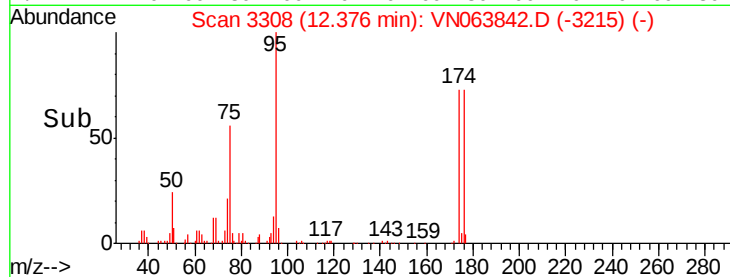
12.38

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN063842.D

Acq: 3 Oct 2020 00:44

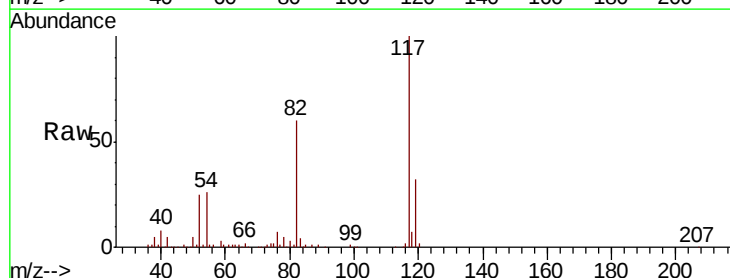
Tgt Ion: 117 Resp: 399610

Ion Ratio Lower Upper

117 100

82 60.3 47.4 71.2

119 32.2 26.4 39.6



Abundance Ion 116.90 (116.60 to 117.60): VN063842.D (-2905) (-)

Ion 82.00 (81.70 to 82.70): VN063842.D (-2905) (-)

Ion 118.90 (118.60 to 119.60): VN063842.D (-2905) (-)

11.38

300000

250000

200000

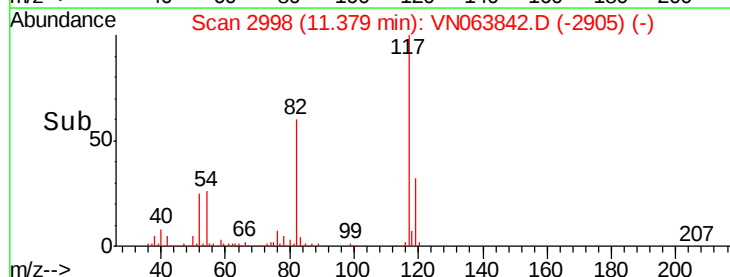
150000

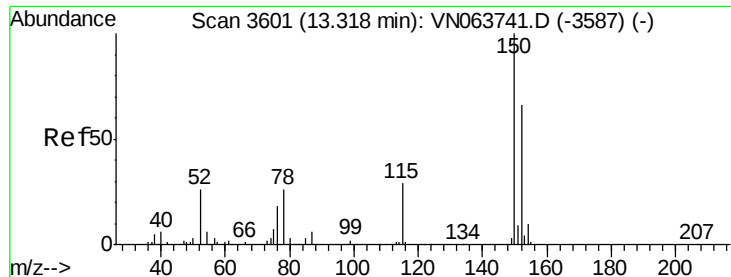
100000

50000

0

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN063842.D

Acq: 3 Oct 2020 00:44

Instrument :

MSVOA_N

ClientSampleId :

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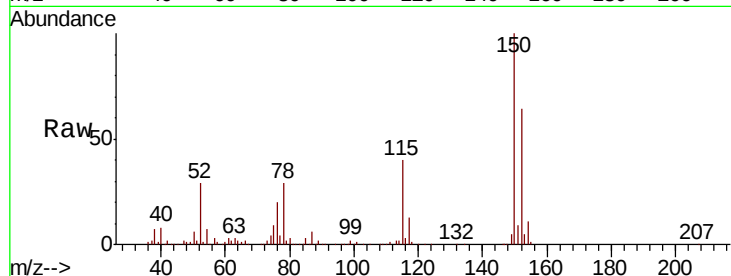
Tot Ion:152 Resp: 157802

Ion Ratio Lower Upper

152 100

115 65.0 31.3 93.8

150 162.6 0.0 341.8

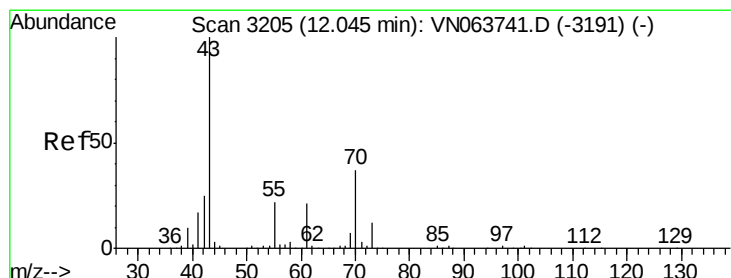
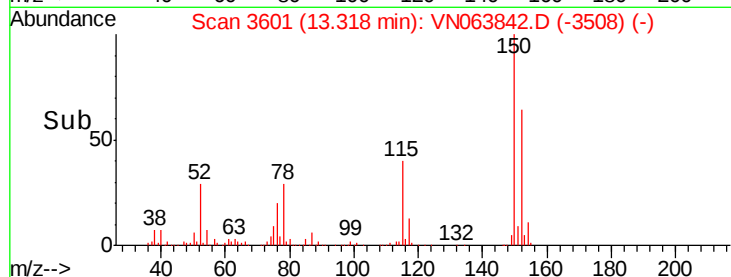
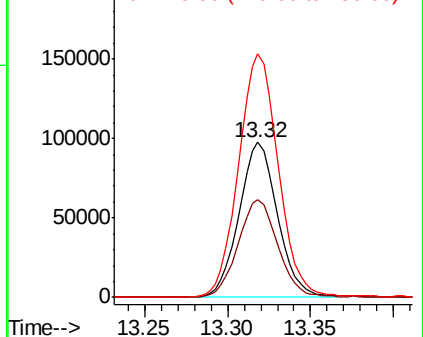


Abundance

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-ethyl acetate

Concen: 2.304 ug/l

RT: 12.04 min Scan# 3202

Delta R.T. -0.01 min

Lab File: VN063842.D

Acq: 3 Oct 2020 00:44

Tgt Ion: 43 Resp: 494

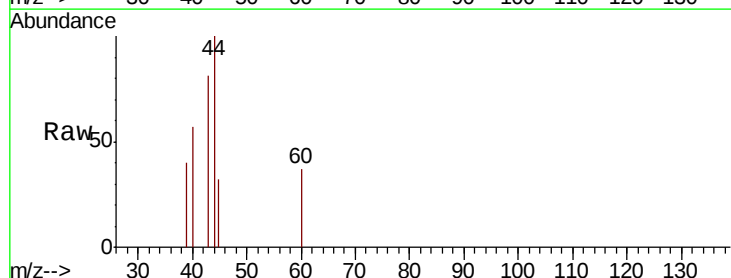
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 0.0 17.9 26.9#

61 0.0 17.0 25.4#



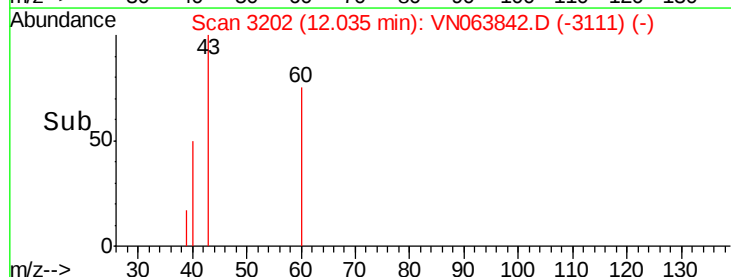
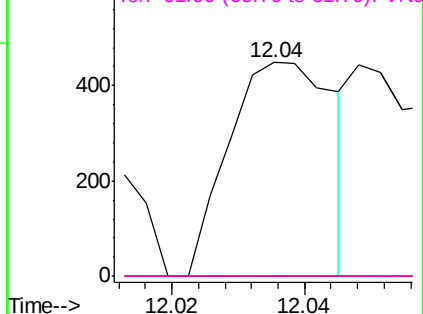
Abundance

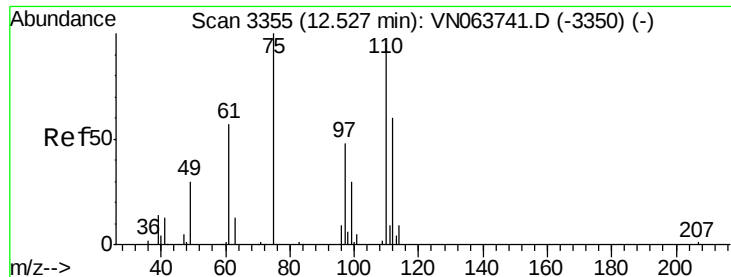
Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

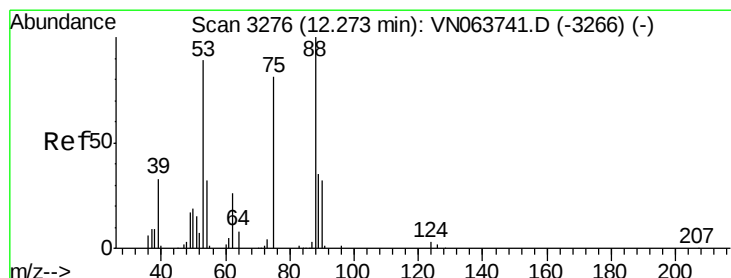
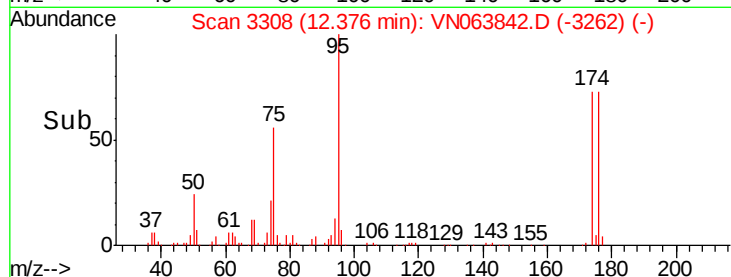
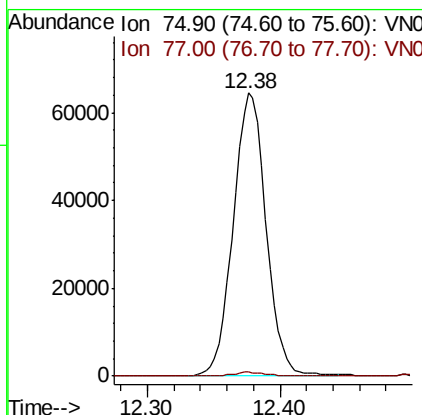
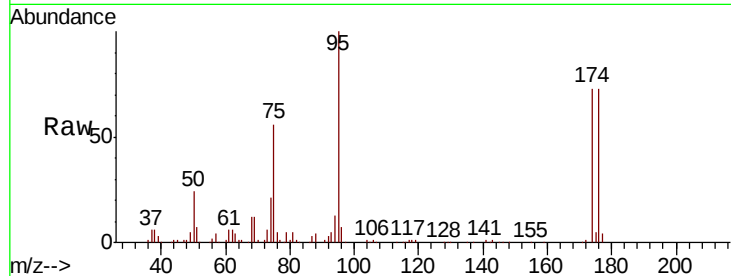




#76
 1,2,3-Trichloropropane
 Concen: 31.916 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN063842.D
 Acq: 3 Oct 2020 00:44

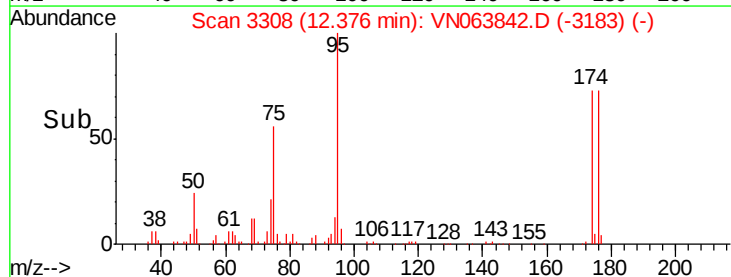
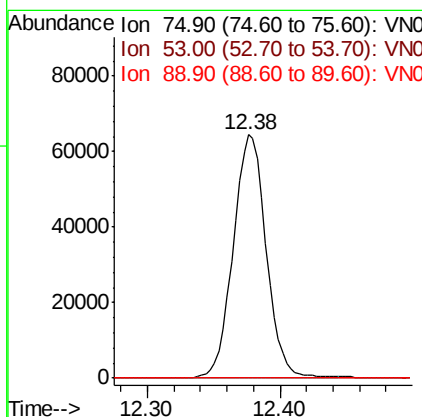
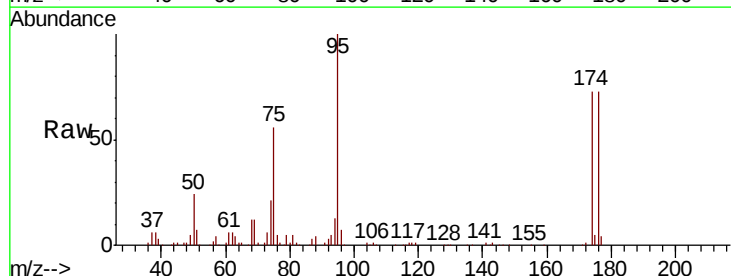
Instrument :
 MSVOA_N
 ClientSampled :
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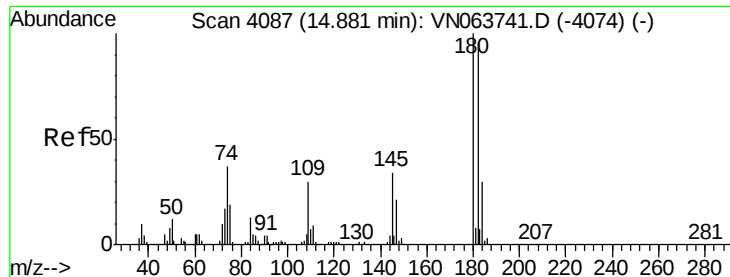
Tot Ion: 75 Resp: 111023
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 91.924 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN063842.D
 Acq: 3 Oct 2020 00:44

Tgt Ion: 75 Resp: 111023
 Ion Ratio Lower Upper
 75 100
 53 0.0 88.2 132.2#
 89 0.0 36.0 54.0#

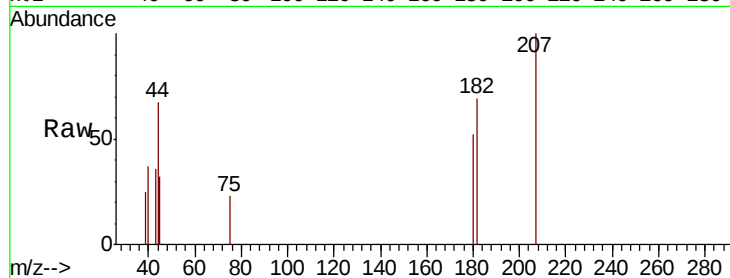




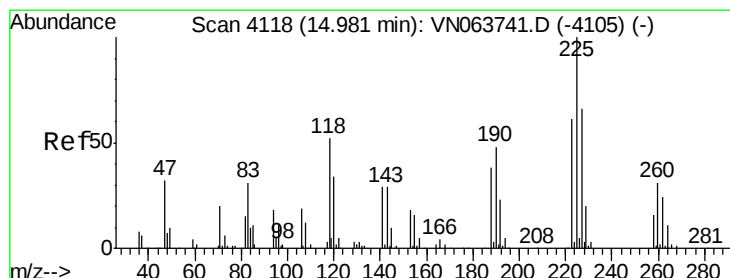
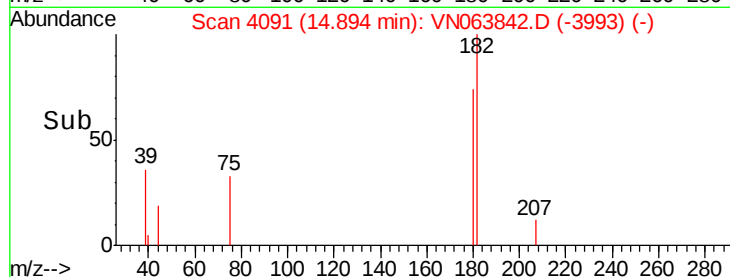
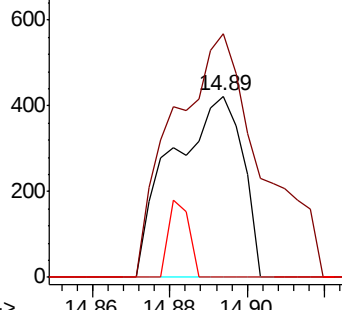
#93
 1,2,4-Trichlorobenzene
 Concen: 1.924 ug/l
 RT: 14.89 min Scan# 4091
 Delta R.T. 0.01 min
 Lab File: VN063842.D
 Acq: 3 Oct 2020 00:44

Instrument :
 MSVOA_N
 ClientSampled :
 FIELD-BLANK

Tot Ion:180 Resp: 535
 Ion Ratio Lower Upper
 180 100
 182 167.1 48.2 144.6#
 145 12.0 17.1 51.2#

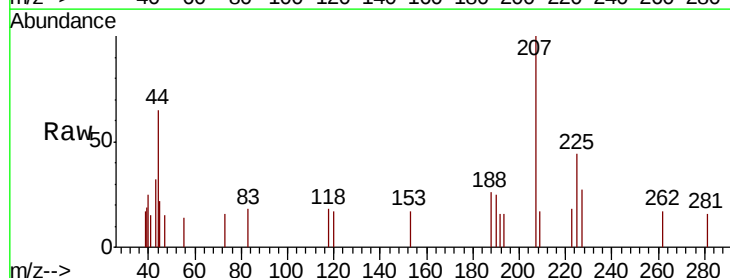


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

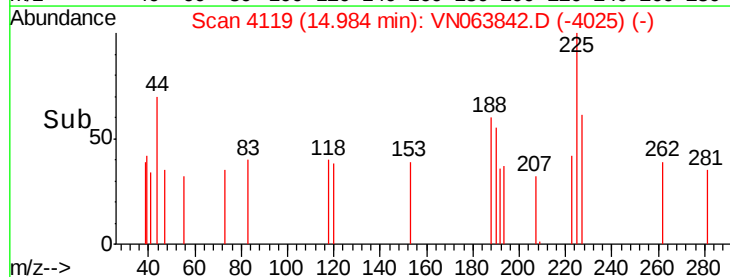
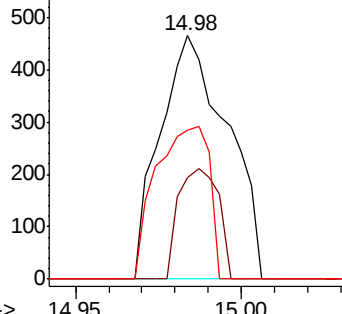


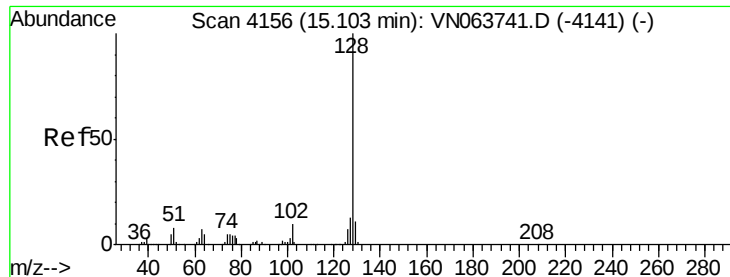
#94
 Hexachlorobutadiene
 Concen: 0.546 ug/l
 RT: 14.98 min Scan# 4119
 Delta R.T. 0.00 min
 Lab File: VN063842.D
 Acq: 3 Oct 2020 00:44

Tgt Ion:225 Resp: 658
 Ion Ratio Lower Upper
 225 100
 223 26.9 30.3 91.0#
 227 49.5 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: 2.167 ug/l

RT: 15.11 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN063842.D

Acq: 3 Oct 2020 00:44

Instrument :

MSVOA_N

ClientSampled :

FIELD-BLANK

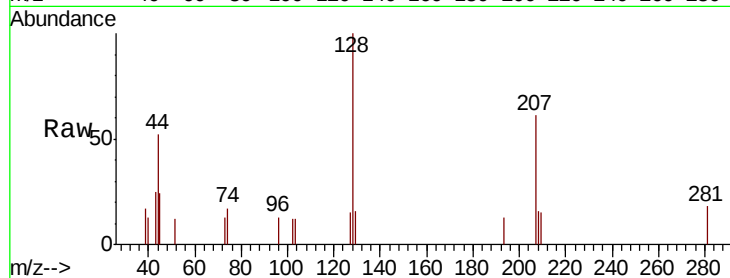
Tot Ion:128 Resp: 2152

Ion Ratio Lower Upper

128 100

127 7.2 10.5 15.7#

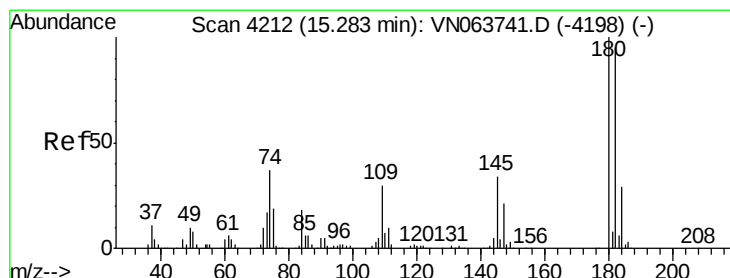
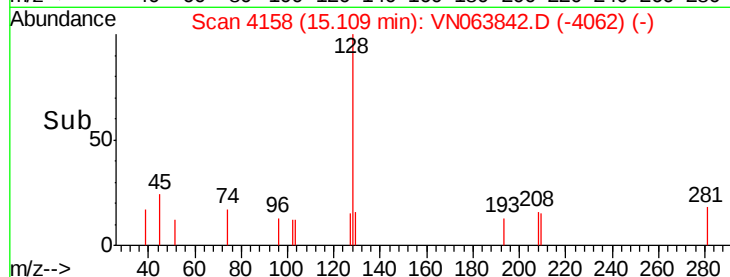
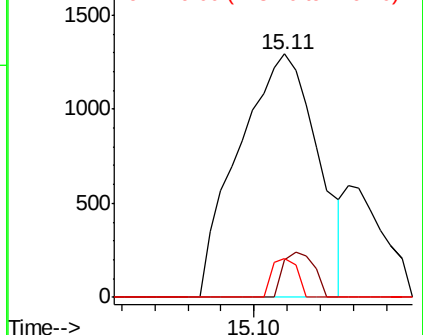
129 5.0 8.7 13.1#



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: 1.815 ug/l

RT: 15.29 min Scan# 4214

Delta R.T. 0.01 min

Lab File: VN063842.D

Acq: 3 Oct 2020 00:44

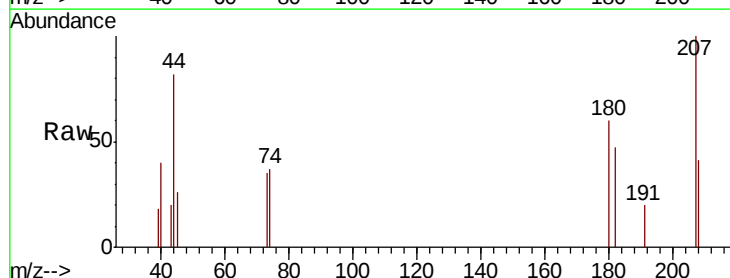
Tgt Ion:180 Resp: 681

Ion Ratio Lower Upper

180 100

182 104.0 47.9 143.6

145 0.0 17.2 51.5#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

