

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX101618\
 Data File : VX005371.D
 Acq On : 16 Oct 2018 16:24
 Operator : JC/MD
 Sample : J5540-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MOSAIC-TB-101518

Quant Time: Oct 17 04:57:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	302347	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	417008	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	368568	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	178921	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	164430	49.00	ug/l	0.00
Spiked Amount			Recovery	=	98.00%	
35) Dibromofluoromethane	5.50	113	130853	47.38	ug/l	0.00
Spiked Amount			Recovery	=	94.76%	
50) Toluene-d8	8.71	98	488237	51.49	ug/l	0.00
Spiked Amount			Recovery	=	102.98%	
62) 4-Bromofluorobenzene	11.14	95	161955	45.47	ug/l	0.00
Spiked Amount			Recovery	=	90.94%	

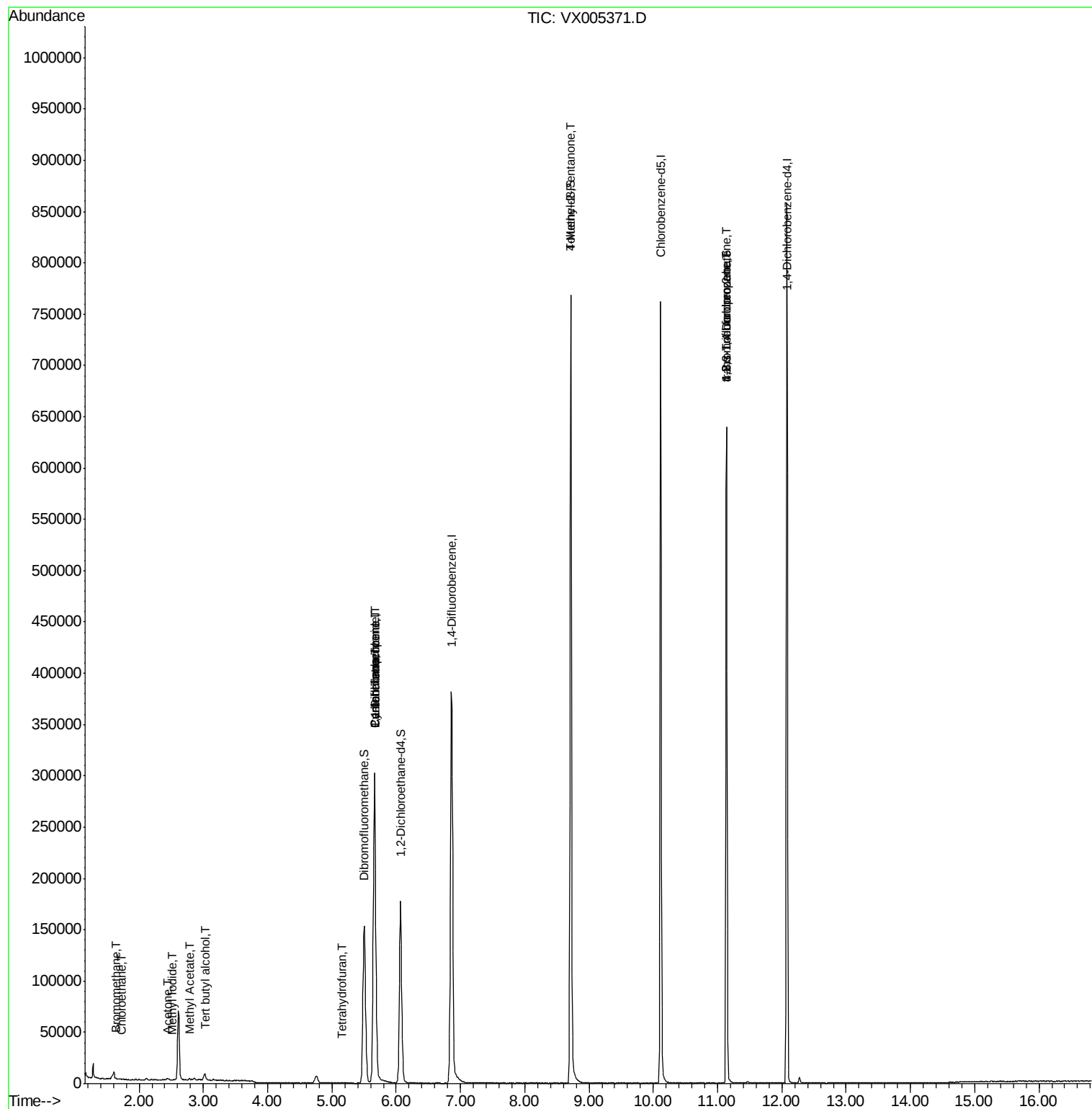
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	131	0.650	ug/l #	3
6) Chloroethane	1.72	64	156	0.403	ug/l #	44
10) Methyl Iodide	2.52	142	44	2.503	ug/l #	41
11) Tert butyl alcohol	3.02	59	3464	3.660	ug/l #	78
13) Acrolein	2.31	56	20	Below Cal	#	1
16) Acetone	2.44	43	1408	0.726	ug/l #	84
18) Methyl Acetate	2.78	43	1874	0.340	ug/l	94
20) Methylene Chloride	2.86	84	596	Below Cal	#	89
29) Tetrahydrofuran	5.15	42	625	0.345	ug/l #	47
31) Cyclohexane	5.66	56	5028	1.090	ug/l #	8
36) 1,1-Dichloropropene	5.67	75	18538	4.590	ug/l #	51
38) Carbon Tetrachloride	5.66	117	26358	6.495	ug/l #	16
51) 4-Methyl-2-Pentanone	8.71	43	2164	0.452	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	79727	22.972	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	79727	69.801	ug/l #	10

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX005371.D

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MSVOA_X

ClientSampleId :

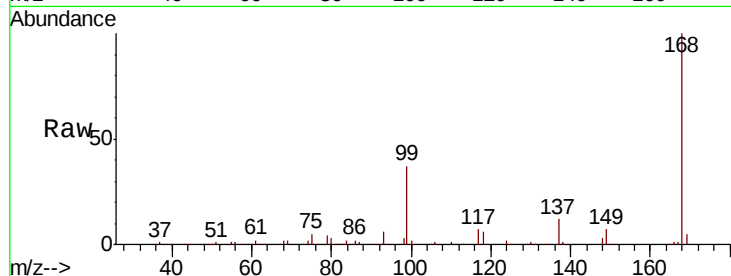
MOSAIC-TB-101518

Tgt Ion: 168 Resp: 302347

Ion Ratio Lower Upper

168 100

99 37.4 39.9 59.9#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

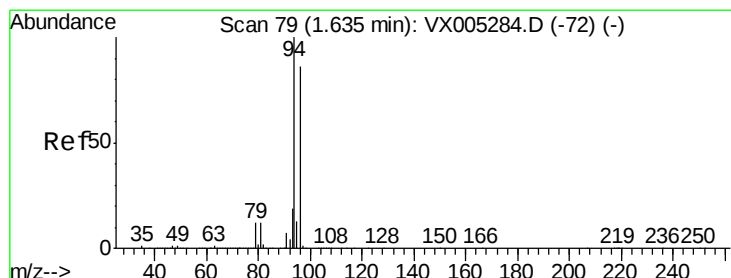
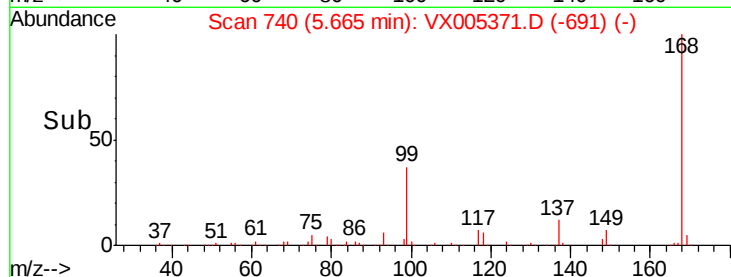
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.650 ug/l

RT: 1.63 min Scan# 78

Delta R.T. -0.01 min

Lab File: VX005371.D

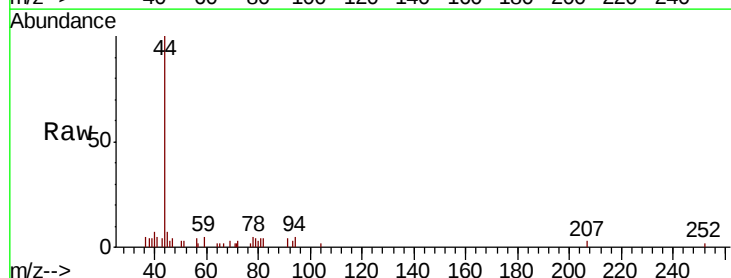
Acq: 16 Oct 2018 16:24

Tgt Ion: 94 Resp: 131

Ion Ratio Lower Upper

94 100

96 0.0 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

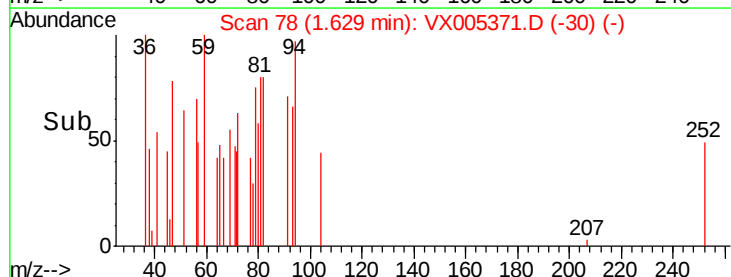
150

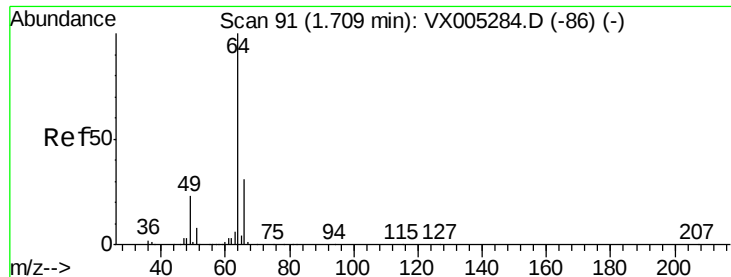
100

50

0

Time--> 1.61 1.62 1.63 1.64 1.65





#6

Chloroethane

Concen: 0.403 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX005371.D

Acq: 16 Oct 2018 16:24

Instrument :

MSVOA_X

ClientSampleId :

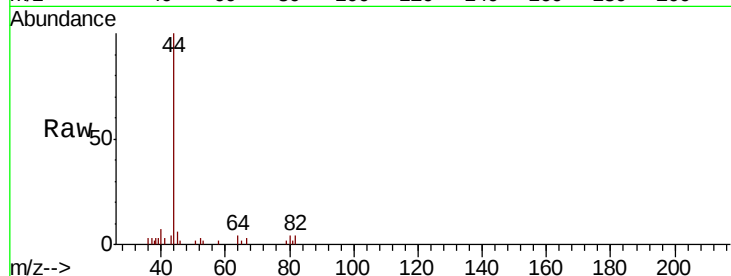
MOSAIC-TB-101518

Tgt Ion: 64 Resp: 156

Ion Ratio Lower Upper

64 100

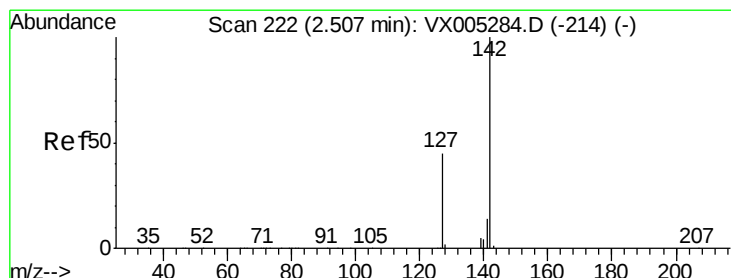
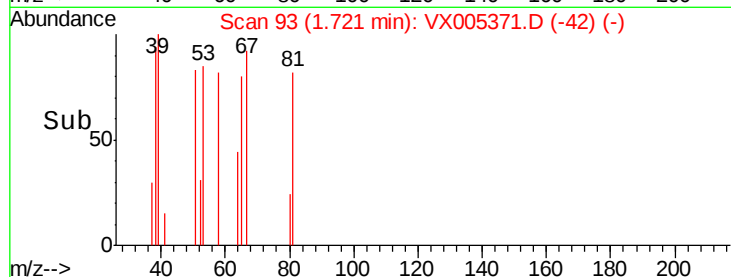
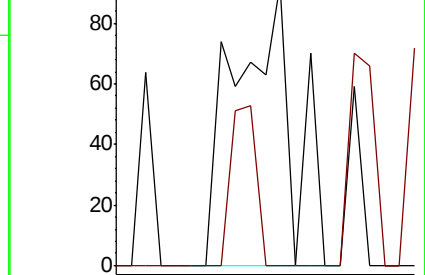
66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX005284.D (-86) (-)

Ion 65.90 (65.60 to 66.60): VX005284.D (-86) (-)

1.72



#10

Methyl Iodide

Concen: 2.503 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX005371.D

Acq: 16 Oct 2018 16:24

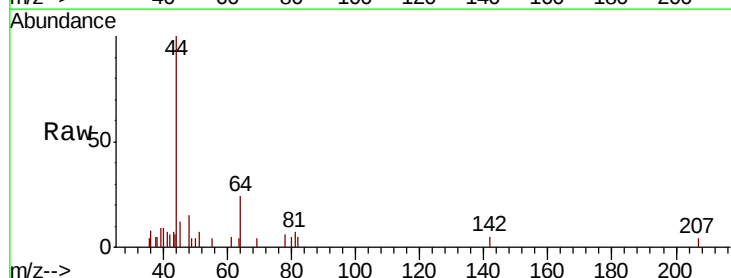
Tgt Ion: 142 Resp: 44

Ion Ratio Lower Upper

142 100

127 0.0 33.8 50.6#

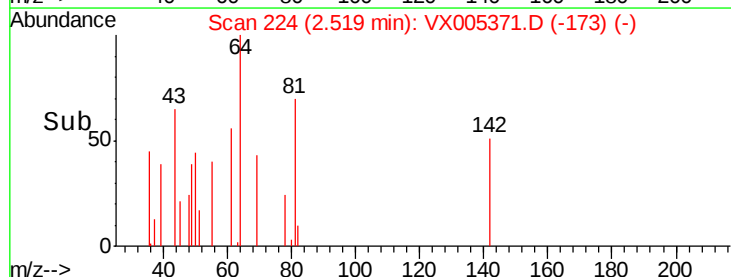
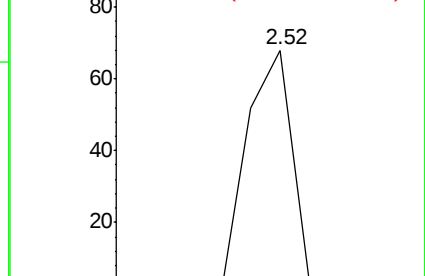
141 0.0 11.4 17.0#

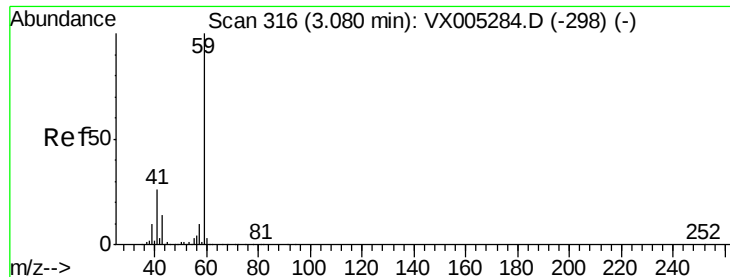


Abundance Ion 141.80 (141.50 to 142.50): VX005284.D (-214) (-)

Ion 126.80 (126.50 to 127.50): VX005284.D (-214) (-)

Ion 140.80 (140.50 to 141.50): VX005284.D (-214) (-)



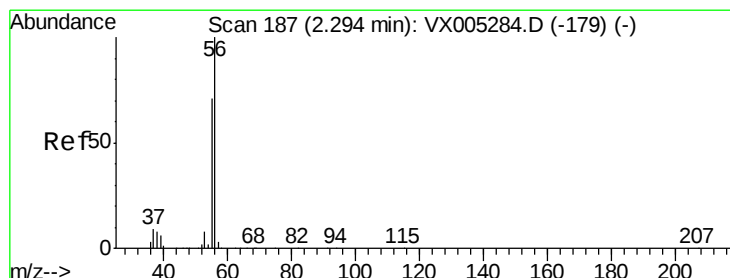
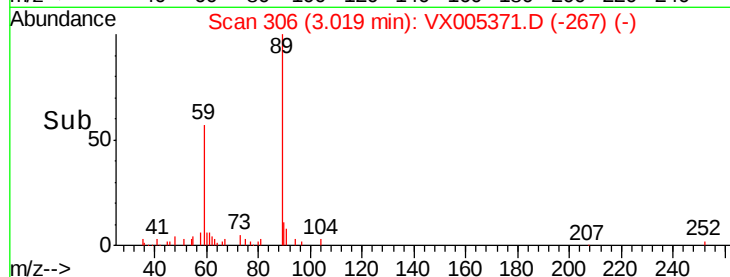
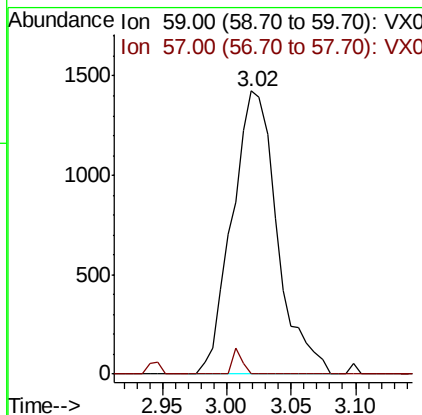
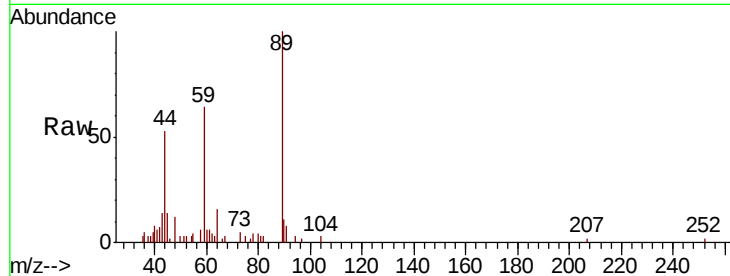


#11

Tert butyl alcohol
 Concen: 3.660 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.06 min
 Lab File: VX005371.D
 Acq: 16 Oct 2018 16:24

Instrument :
 MSVOA_X
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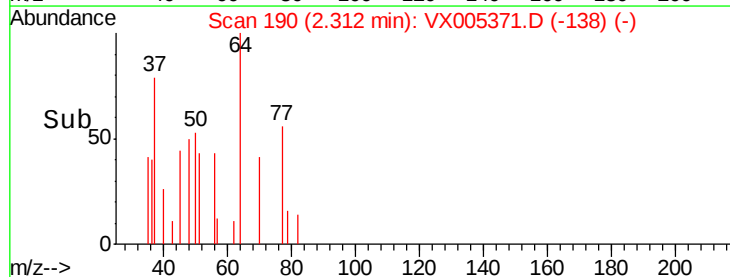
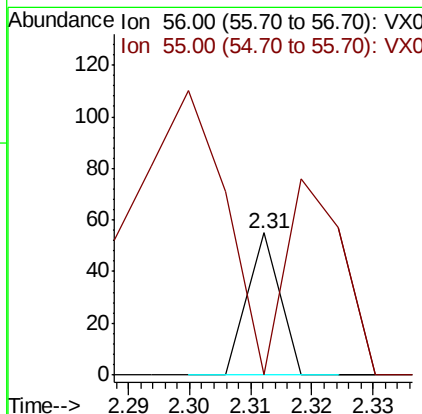
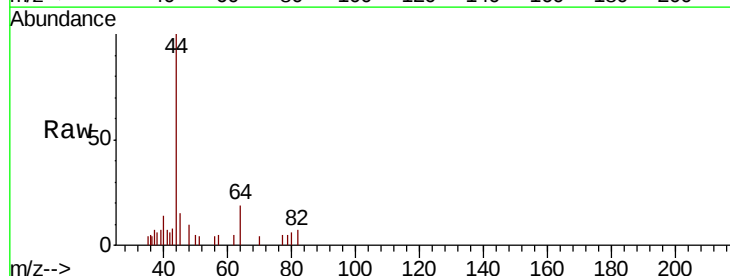
Tgt Ion: 59 Resp: 3464
 Ion Ratio Lower Upper
 59 100
 57 2.0 8.2 12.4#

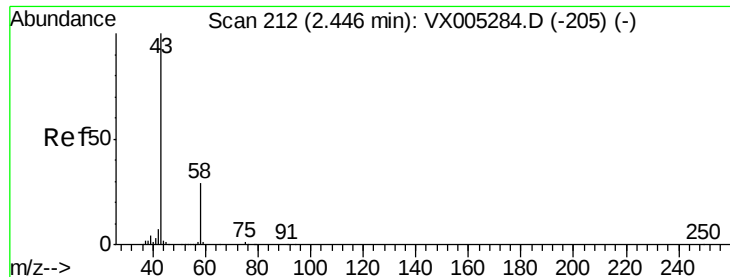


#13

Acrolein
 Concen: Below Cal
 RT: 2.31 min Scan# 190
 Delta R.T. 0.02 min
 Lab File: VX005371.D
 Acq: 16 Oct 2018 16:24

Tgt Ion: 56 Resp: 20
 Ion Ratio Lower Upper
 56 100
 55 245.0 54.7 82.1#





#16

Acetone

Concen: 0.726 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX005371.D

Acq: 16 Oct 2018 16:24

Instrument :

MSVOA_X

ClientSampleId :

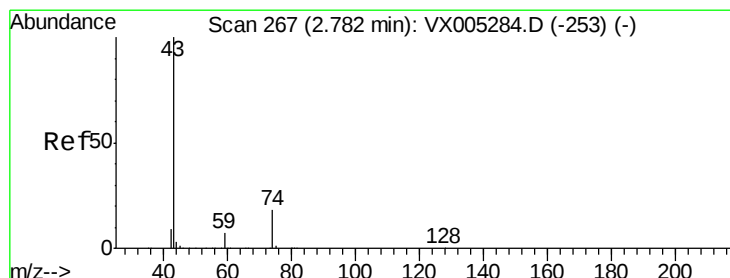
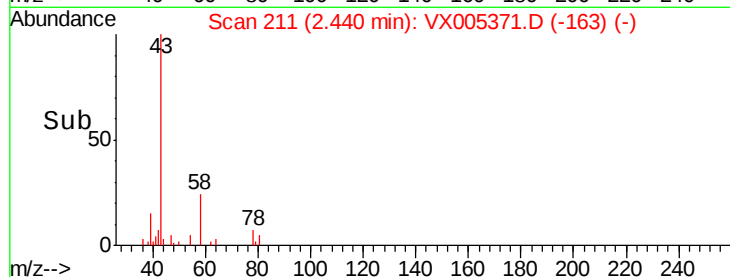
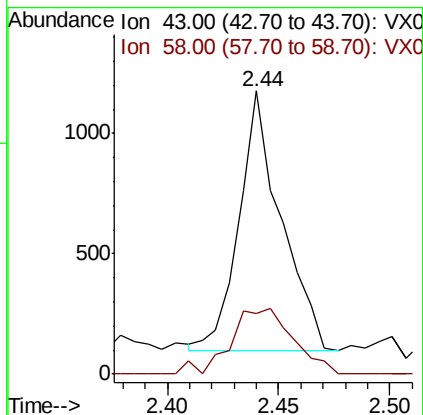
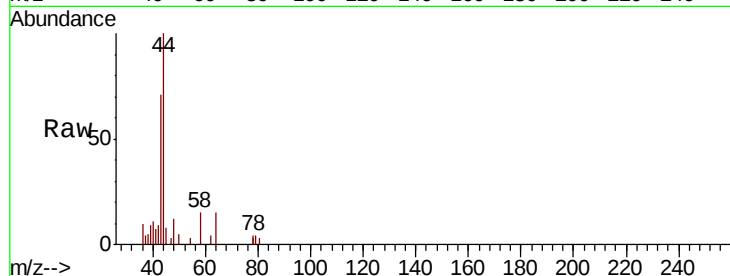
MOSAIC-TB-101518

Tgt Ion: 43 Resp: 1408

Ion Ratio Lower Upper

43 100

58 23.5 26.2 39.4#



#18

Methyl Acetate

Concen: 0.340 ug/l

RT: 2.78 min Scan# 267

Delta R.T. -0.00 min

Lab File: VX005371.D

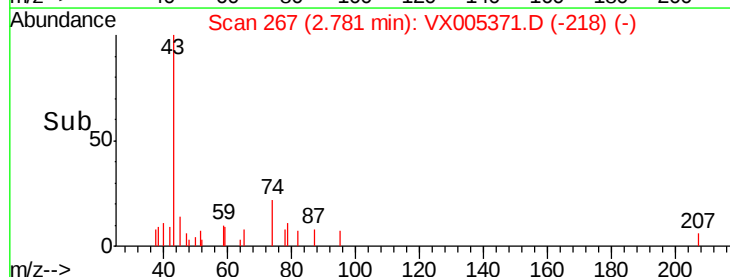
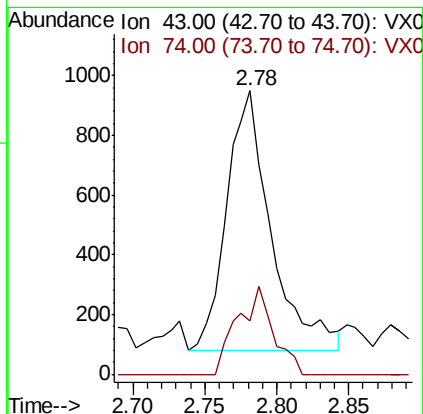
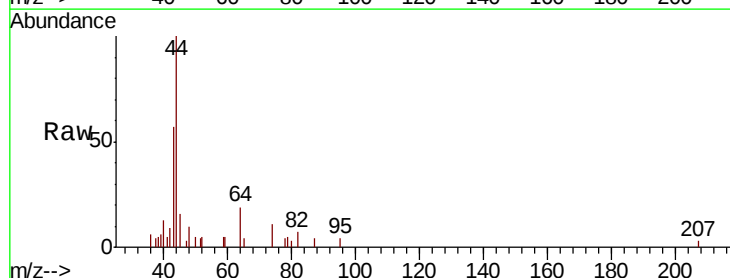
Acq: 16 Oct 2018 16:24

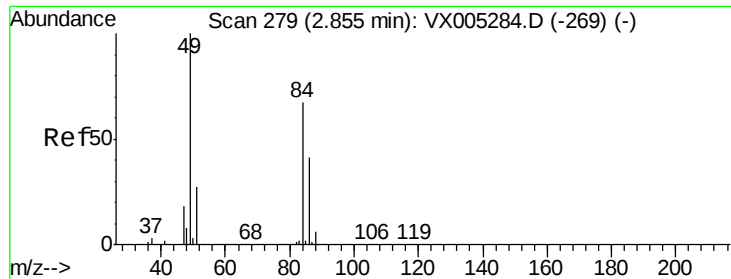
Tgt Ion: 43 Resp: 1874

Ion Ratio Lower Upper

43 100

74 27.1 19.4 29.2

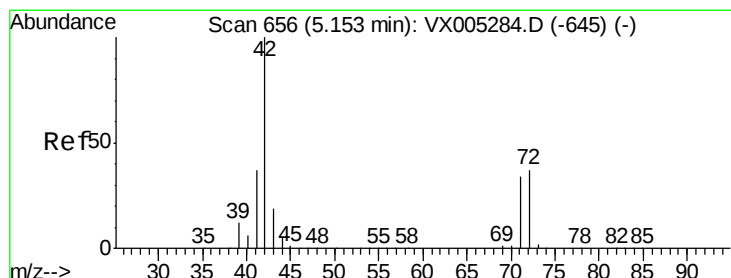
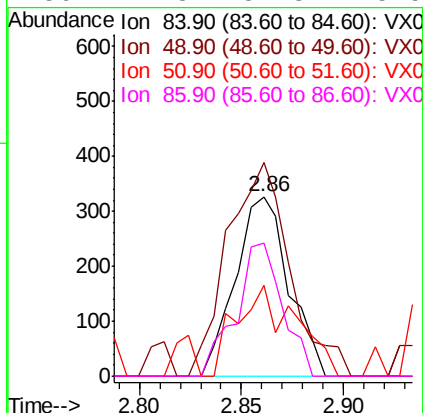
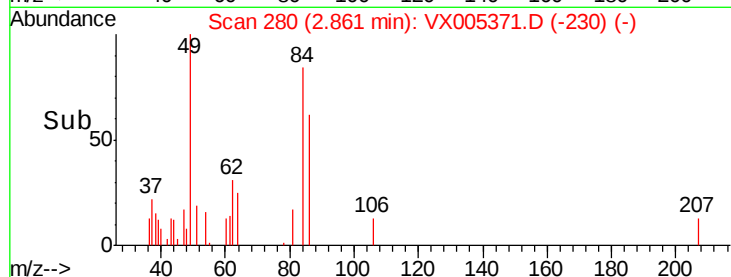
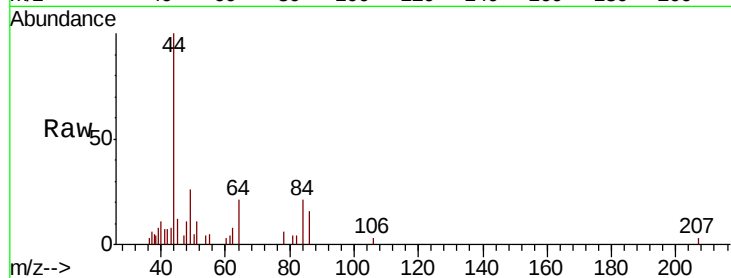




#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005371.D
Acq: 16 Oct 2018 16:24

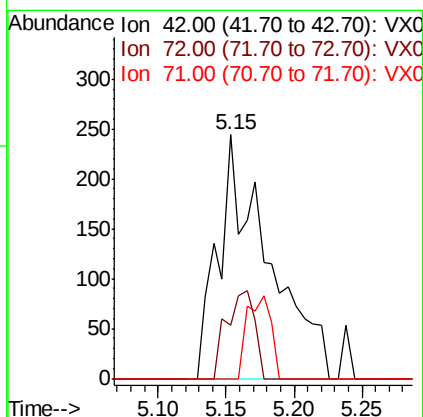
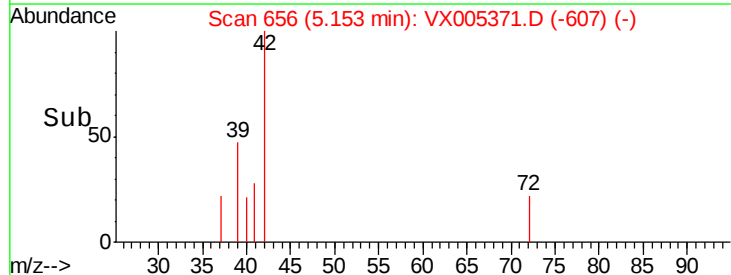
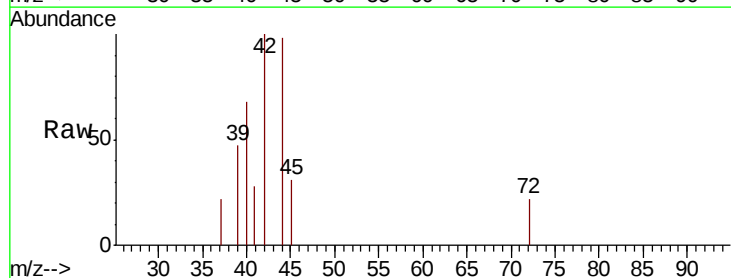
Instrument :
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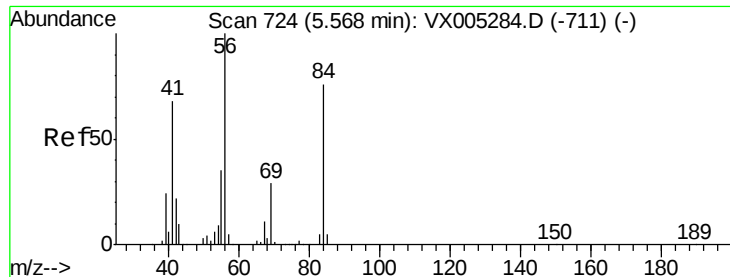
Tgt Ion: 84 Resp: 596
Ion Ratio Lower Upper
84 100
49 119.0 101.2 151.8
51 50.5 29.5 44.3#
86 74.3 52.3 78.5



#29
Tetrahydrofuran
Concen: 0.345 ug/l
RT: 5.15 min Scan# 656
Delta R.T. -0.00 min
Lab File: VX005371.D
Acq: 16 Oct 2018 16:24

Tgt Ion: 42 Resp: 625
Ion Ratio Lower Upper
42 100
72 20.0 37.4 56.0#
71 0.0 34.5 51.7#

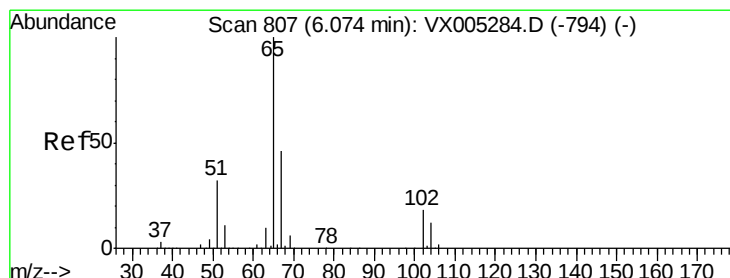
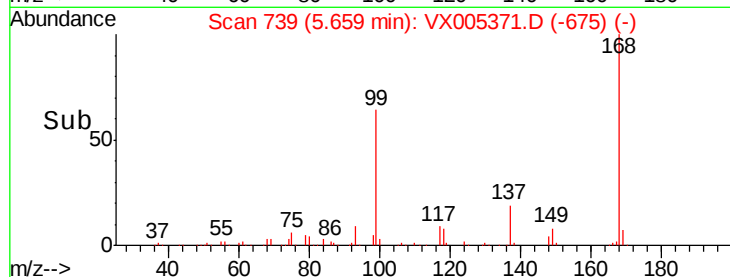
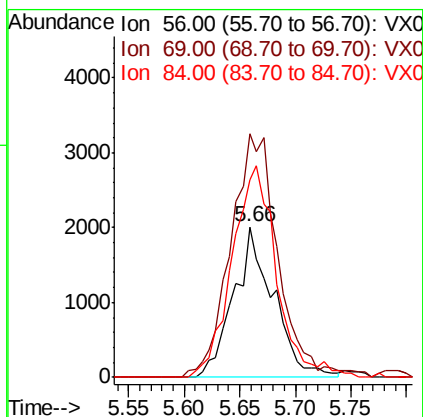
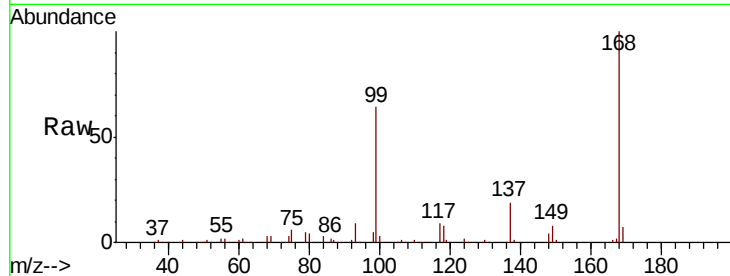




#31
Cyclohexane
Concen: 1.090 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX005371.D
Acq: 16 Oct 2018 16:24

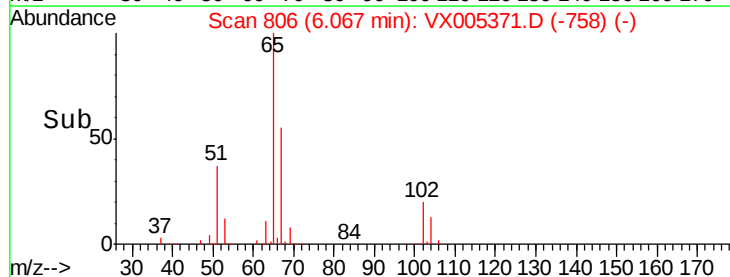
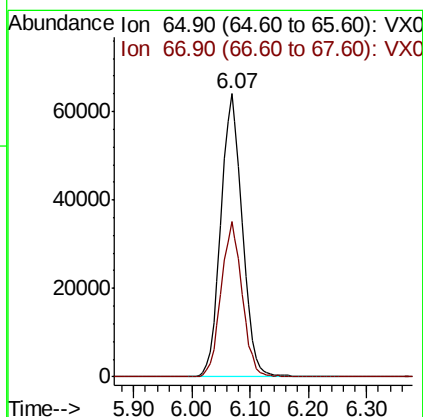
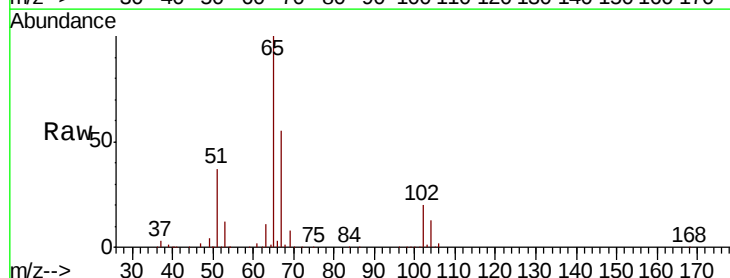
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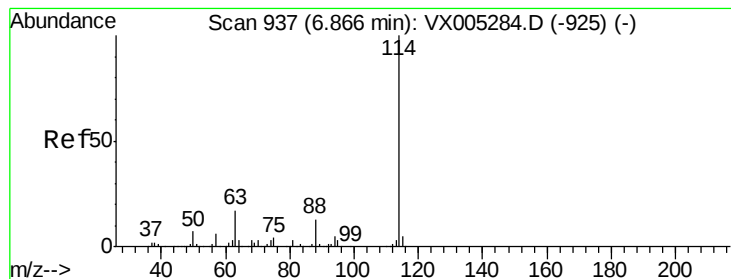
Tgt Ion: 56 Resp: 5028
Ion Ratio Lower Upper
56 100
69 157.3 25.4 38.2#
84 131.0 71.4 107.2#



#33
1,2-Dichloroethane-d4
Concen: 49.002 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.01 min
Lab File: VX005371.D
Acq: 16 Oct 2018 16:24

Tgt Ion: 65 Resp: 164430
Ion Ratio Lower Upper
65 100
67 53.5 0.0 106.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.01 min

Lab File: VX005371.D

Acq: 16 Oct 2018 16:24

Instrument :

MSVOA_X

ClientSampleId :

MOSAIC-TB-101518

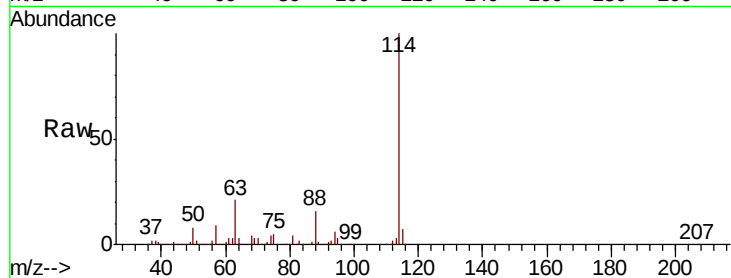
Tgt Ion:114 Resp: 417008

Ion Ratio Lower Upper

114 100

63 20.8 0.0 39.0

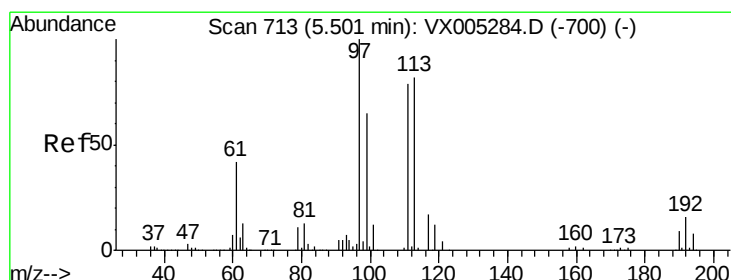
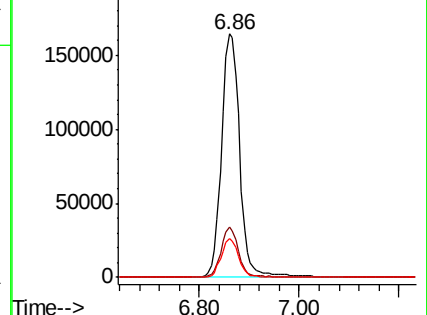
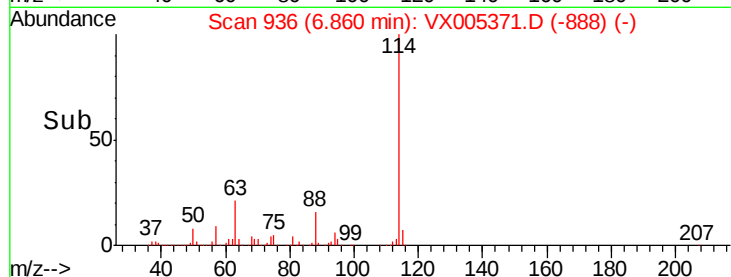
88 15.7 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 47.377 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX005371.D

Acq: 16 Oct 2018 16:24

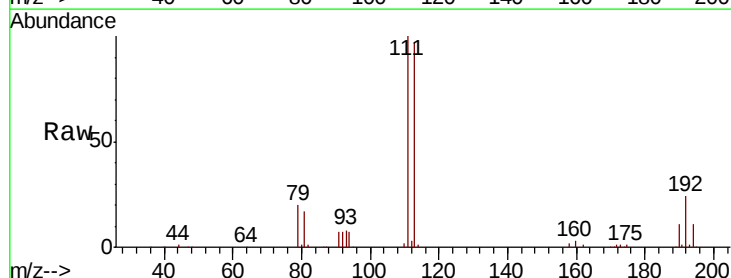
Tgt Ion:113 Resp: 130853

Ion Ratio Lower Upper

113 100

111 101.9 82.4 123.6

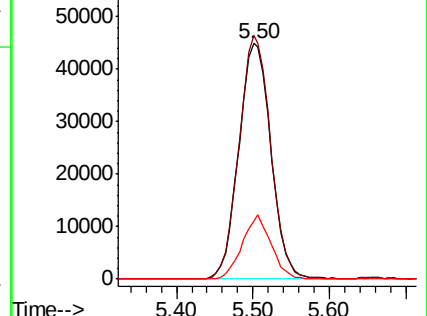
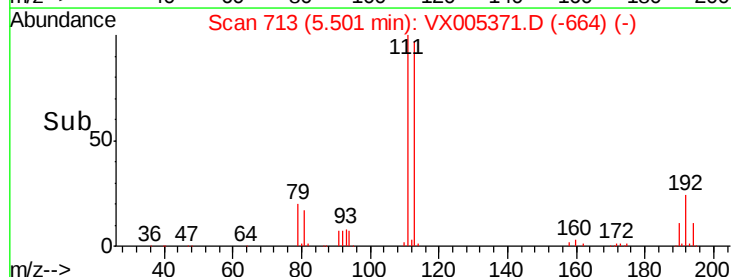
192 24.5 19.4 29.2

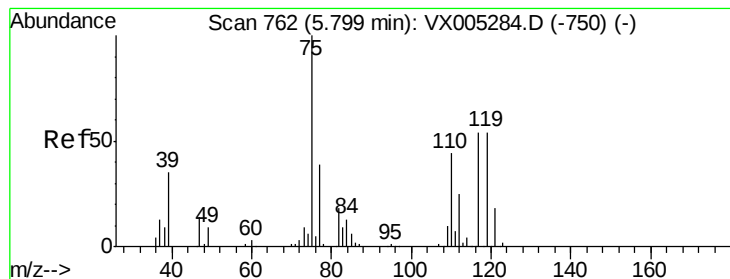


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.590 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005371.D

Acq: 16 Oct 2018 16:24

Instrument :

MSVOA_X

ClientSampleId :

MOSAIC-TB-101518

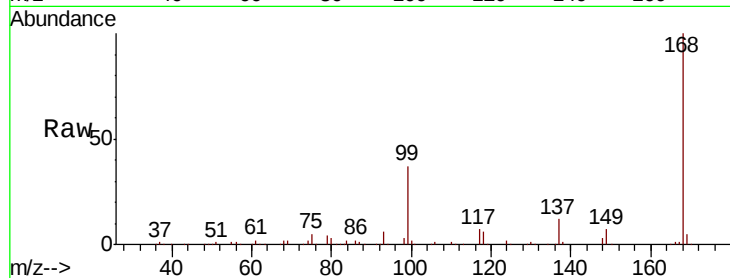
Tgt Ion: 75 Resp: 18538

Ion Ratio Lower Upper

75 100

110 10.7 18.0 54.0#

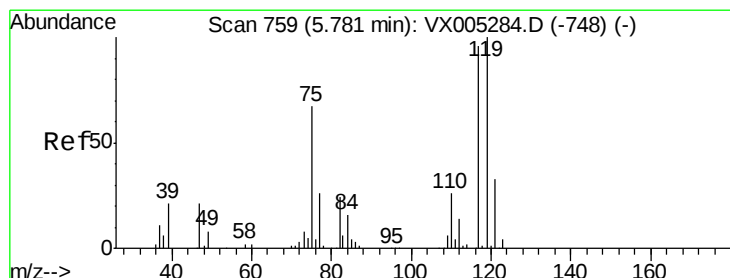
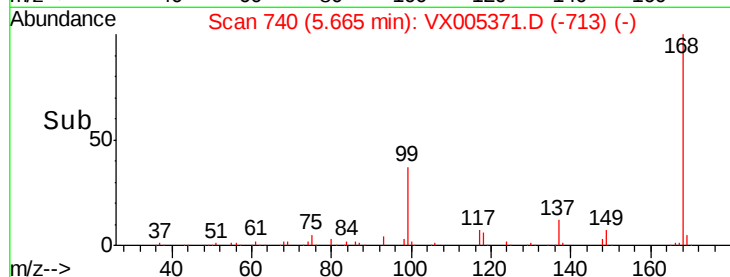
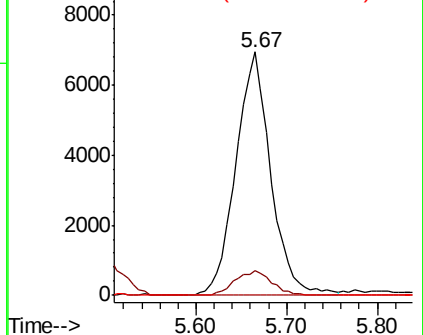
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.495 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX005371.D

Acq: 16 Oct 2018 16:24

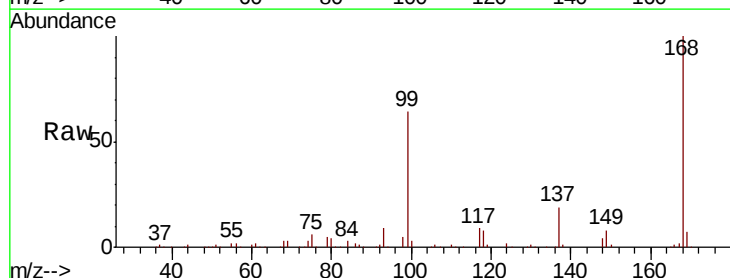
Tgt Ion: 117 Resp: 26358

Ion Ratio Lower Upper

117 100

119 6.7 78.8 118.2#

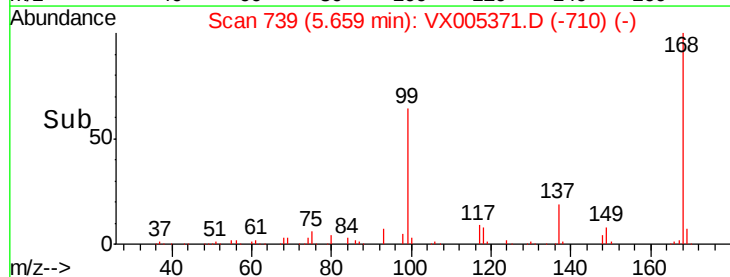
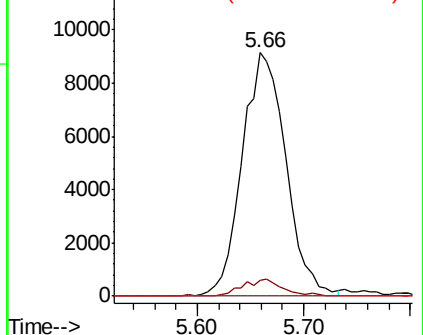
121 0.0 24.9 37.3#

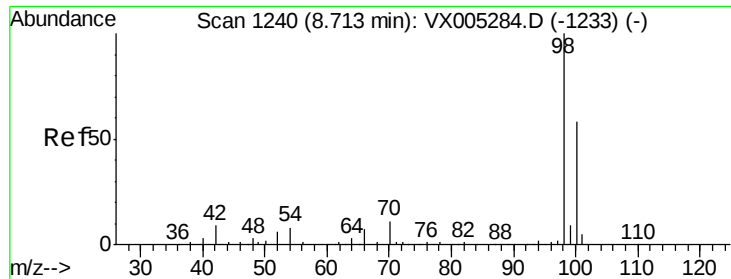


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 51.491 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX005371.D

Acq: 16 Oct 2018 16:24

Instrument :

MSVOA_X

ClientSampleId :

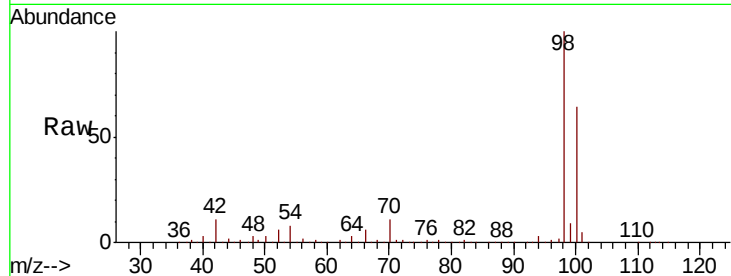
MOSAIC-TB-101518

Tgt Ion: 98 Resp: 488237

Ion Ratio Lower Upper

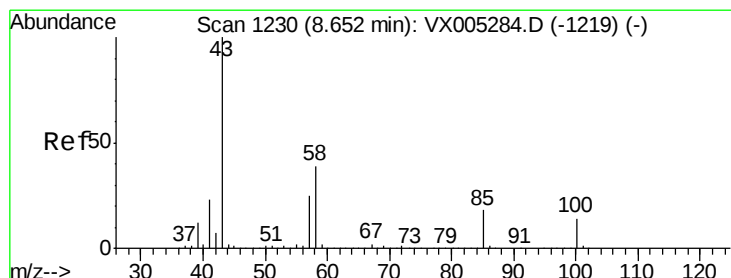
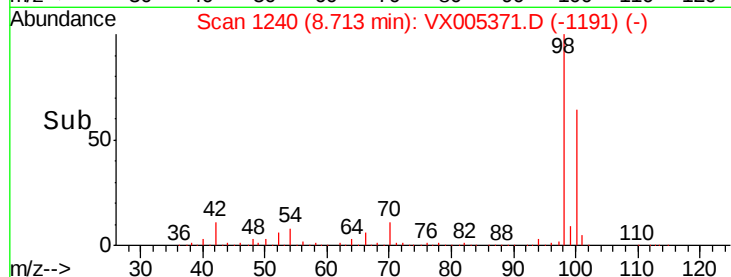
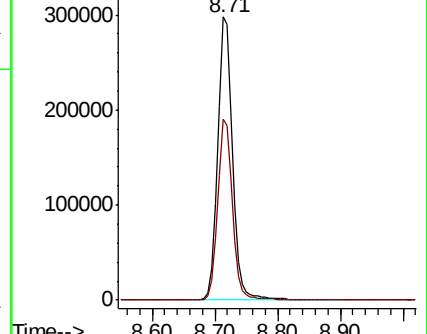
98 100

100 63.8 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.452 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.06 min

Lab File: VX005371.D

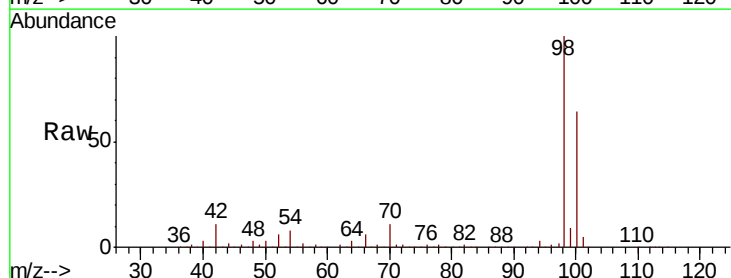
Acq: 16 Oct 2018 16:24

Tgt Ion: 43 Resp: 2164

Ion Ratio Lower Upper

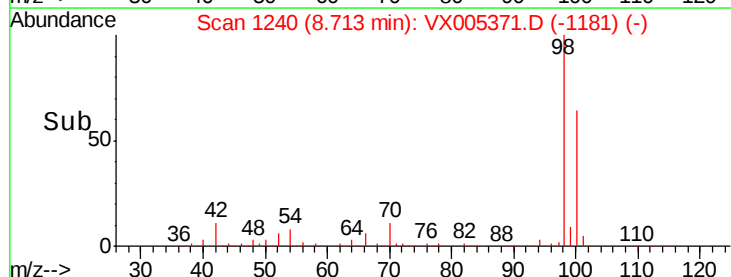
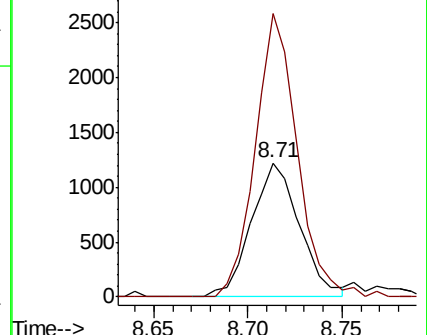
43 100

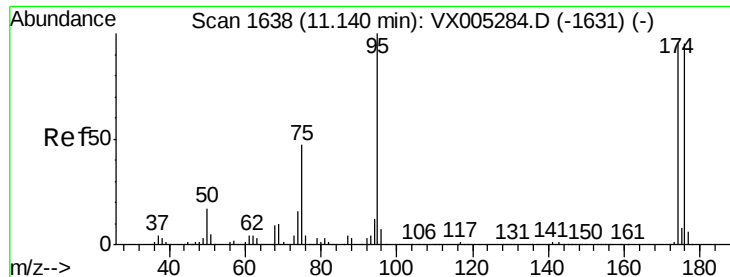
58 183.8 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 45.467 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005371.D

Acq: 16 Oct 2018 16:24

Instrument :

MSVOA_X

ClientSampleId :

MOSAIC-TB-101518

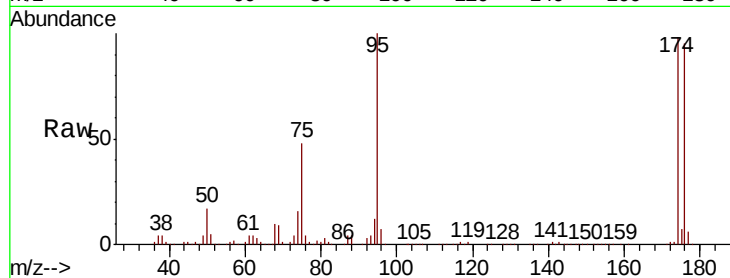
Tgt Ion: 95 Resp: 161955

Ion Ratio Lower Upper

95 100

174 94.6 0.0 185.2

176 92.5 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX005284.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX005284.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX005284.D (-1631) (-)

11.14

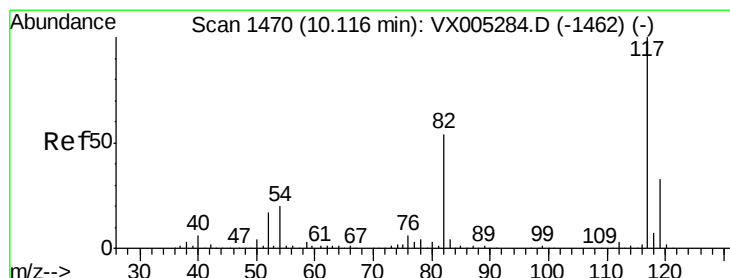
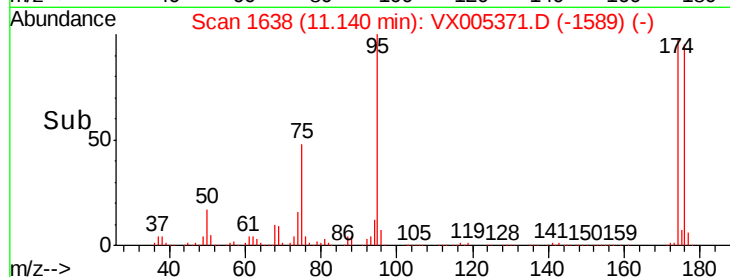
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX005371.D

Acq: 16 Oct 2018 16:24

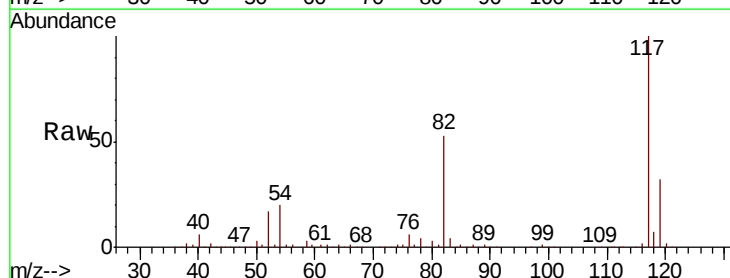
Tgt Ion: 117 Resp: 368568

Ion Ratio Lower Upper

117 100

82 53.0 47.8 71.6

119 32.2 29.3 43.9



Abundance Ion 116.90 (116.60 to 117.60): VX005284.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX005284.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX005284.D (-1462) (-)

10.12

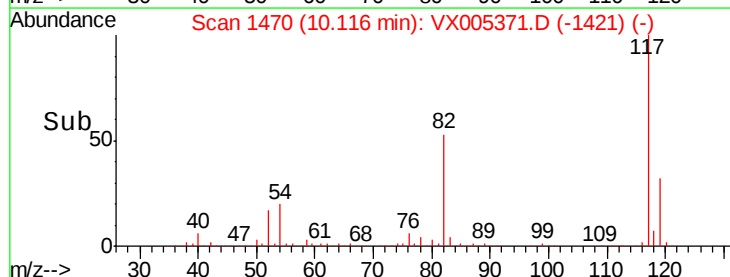
300000

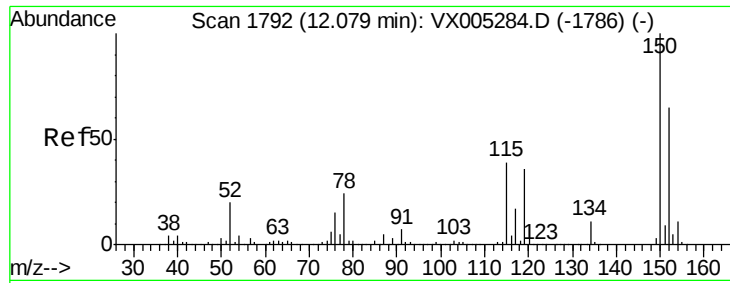
200000

100000

0

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005371.D

Acq: 16 Oct 2018 16:24

Instrument :

MSVOA_X

ClientSampleId :

MOSAIC-TB-101518

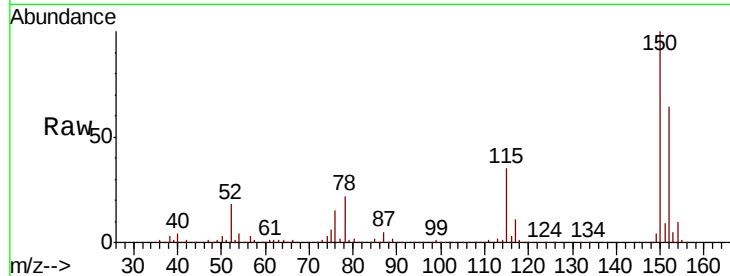
Tgt Ion:152 Resp: 178921

Ion Ratio Lower Upper

152 100

115 54.8 39.0 117.0

150 155.8 0.0 351.0



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

300000

250000

200000

150000

100000

50000

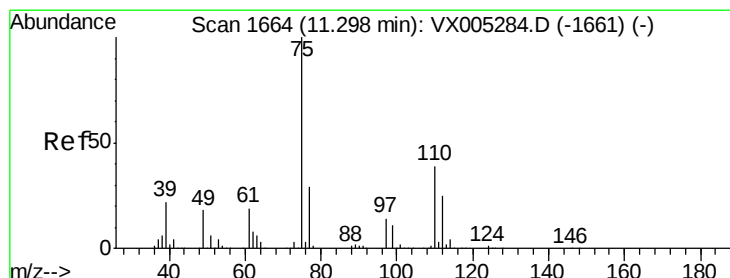
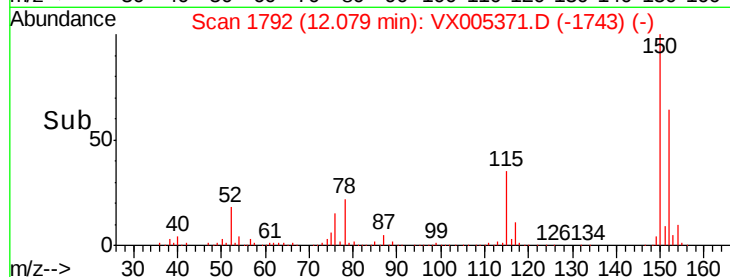
0

12.00

12.10

12.20

Time-->



#76

1,2,3-Trichloropropane

Concen: 22.972 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005371.D

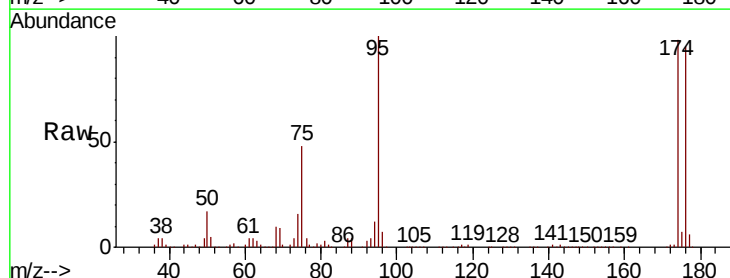
Acq: 16 Oct 2018 16:24

Tgt Ion: 75 Resp: 79727

Ion Ratio Lower Upper

75 100

77 1.4 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

60000

40000

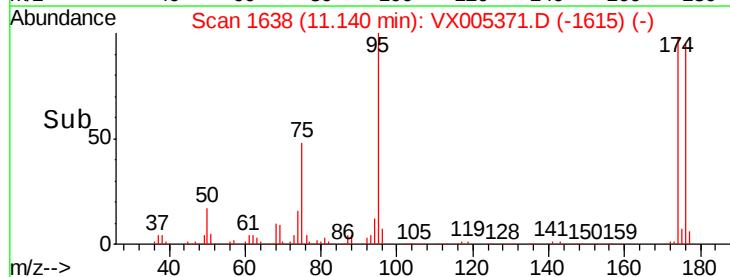
20000

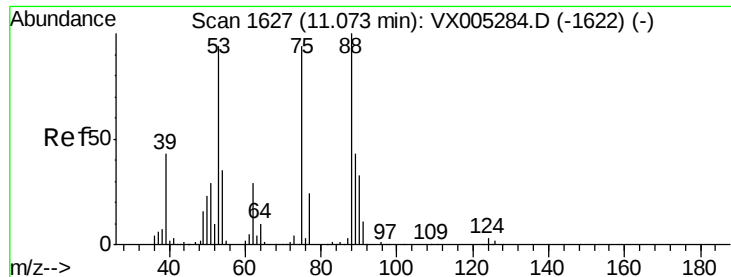
0

11.10

11.20

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 69.801 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005371.D

Acq: 16 Oct 2018 16:24

Instrument :

MSVOA_X

ClientSampleId :

MOSAIC-TB-101518

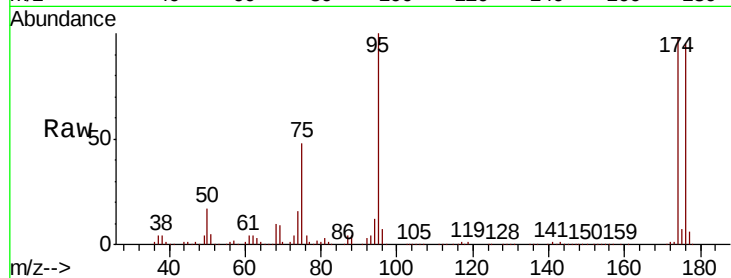
Tgt Ion: 75 Resp: 79727

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

