

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX101618\
 Data File : VX005368.D
 Acq On : 16 Oct 2018 15:04
 Operator : JC/MD
 Sample : J5540-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MOSAIC-FRAC-TANK-101518

Quant Time: Oct 17 04:57:09 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	5.66	168	309881	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	432900	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	375690	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	193447	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	163944	47.67	ug/l	0.00
Spiked Amount			Recovery	=	95.34%	
35) Dibromofluoromethane	5.49	113	137068	47.81	ug/l	0.00
Spiked Amount			Recovery	=	95.62%	
50) Toluene-d8	8.71	98	499152	50.71	ug/l	0.00
Spiked Amount			Recovery	=	101.42%	
62) 4-Bromofluorobenzene	11.14	95	170089	46.00	ug/l	0.00
Spiked Amount			Recovery	=	92.00%	

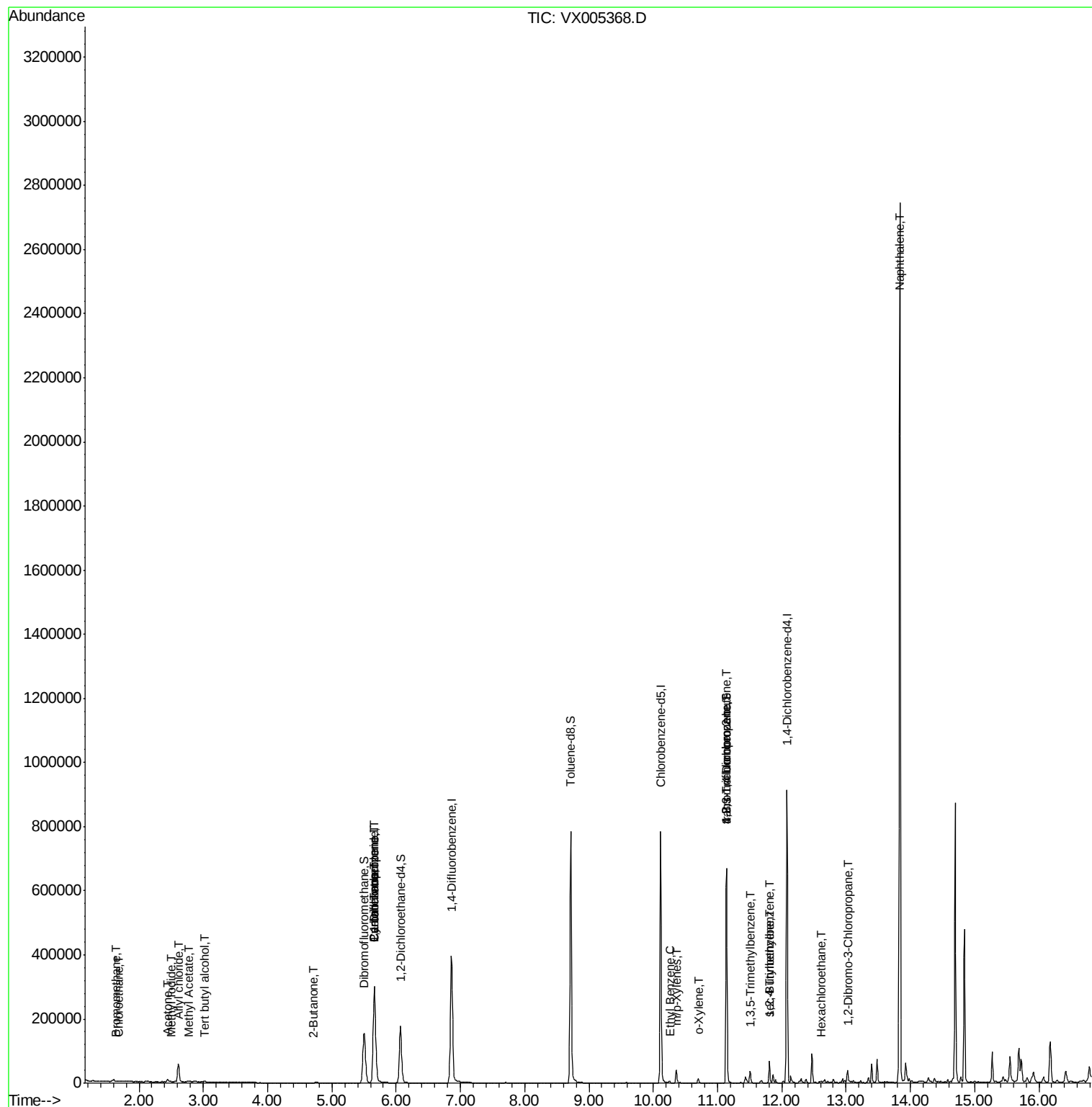
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	466	0.814	ug/l	92
6) Chloroethane	1.68	64	62	0.361	ug/l #	25
10) Methyl Iodide	2.51	142	64	2.509	ug/l #	41
11) Tert butyl alcohol	3.02	59	1918	1.977	ug/l #	83
13) Acrolein	2.31	56	127	Below Cal	#	76
14) Allyl chloride	2.61	41	5334	0.895	ug/l #	63
16) Acetone	2.45	43	8954	4.503	ug/l	98
18) Methyl Acetate	2.78	43	2580	0.456	ug/l	99
20) Methylene Chloride	2.85	84	530	Below Cal	#	60
25) 2-Butanone	4.71	43	1022	0.351	ug/l	97
31) Cyclohexane	5.66	56	5018	1.061	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	19611	4.678	ug/l #	50
38) Carbon Tetrachloride	5.66	117	25876	6.142	ug/l #	15
67) Ethyl Benzene	10.26	91	3620	0.279	ug/l	91
68) m/p-Xylenes	10.36	106	9338	1.852	ug/l	100
69) o-Xylene	10.69	106	2936	0.604	ug/l	93
76) 1,2,3-Trichloropropane	11.14	75	82003	21.854	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	15101	1.533	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.14	75	82003	66.403	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	30505	3.010	ug/l	100
85) sec-Butylbenzene	11.80	105	30505	2.585	ug/l #	56
90) Hexachloroethane	12.60	117	781	0.425	ug/l #	3
92) 1,2-Dibromo-3-Chloropropan	13.02	75	586	0.554	ug/l #	1
95) Naphthalene	13.83	128	1618840	121.343	ug/l	99

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

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QLast Update : Fri Oct 12 11:28:43 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX005368.D

Acq: 16 Oct 2018 15:04

Instrument :

MSVOA_X

ClientSampleId :

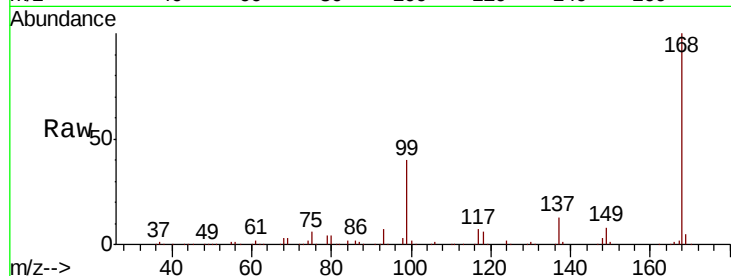
MOSAIC-FRAC-TANK-101518

Tgt Ion: 168 Resp: 309881

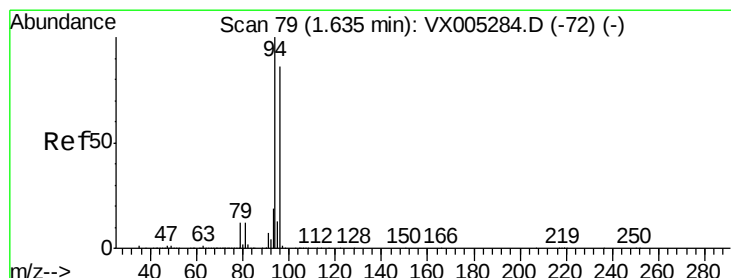
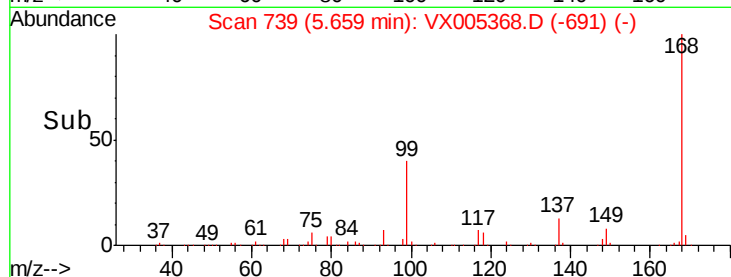
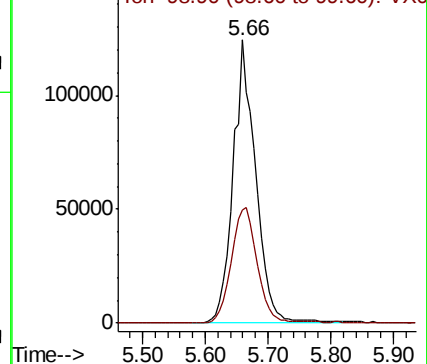
Ion Ratio Lower Upper

168 100

99 40.1 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): VX005284.D (-726) (-)



#5

Bromomethane

Concen: 0.814 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX005368.D

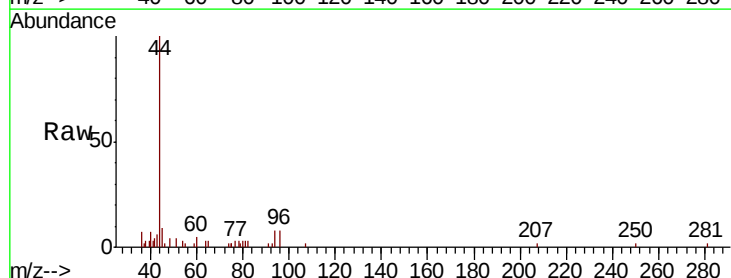
Acq: 16 Oct 2018 15:04

Tgt Ion: 94 Resp: 466

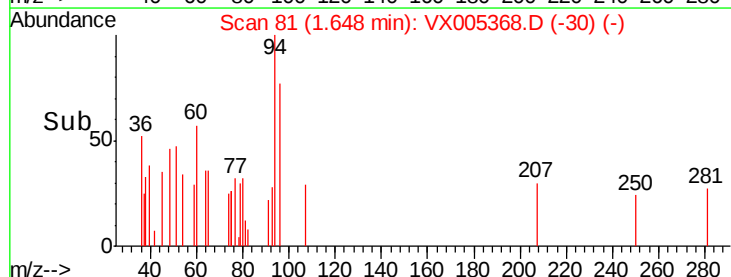
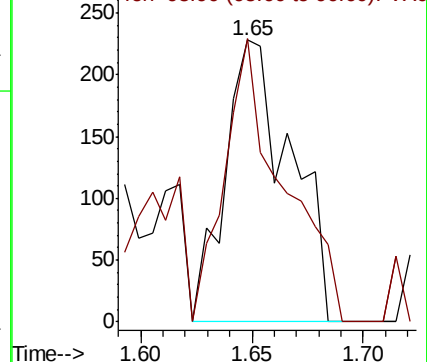
Ion Ratio Lower Upper

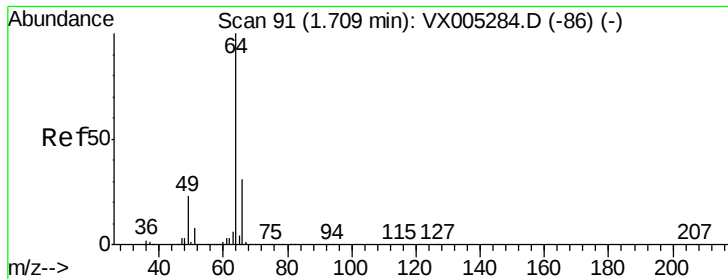
94 100

96 100.4 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX005284.D (-72) (-)





#6

Chloroethane

Concen: 0.361 ug/l

RT: 1.68 min Scan# 87

Delta R.T. -0.02 min

Lab File: VX005368.D

Acq: 16 Oct 2018 15:04

Instrument :

MSVOA_X

ClientSampleId :

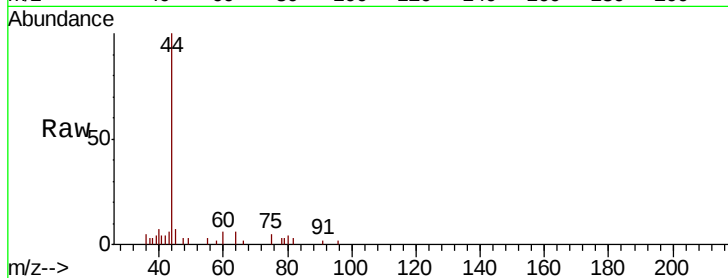
MOSAIC-FRAC-TANK-101518

Tgt Ion: 64 Resp: 62

Ion Ratio Lower Upper

64 100

66 71.8 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.68

150

100

50

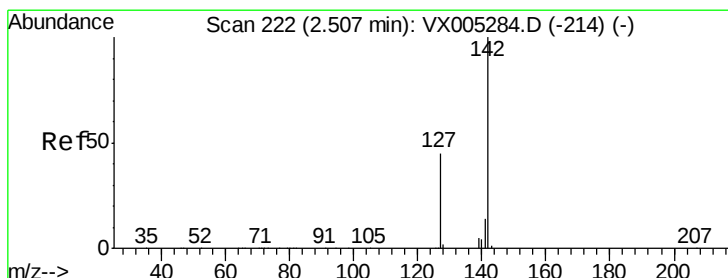
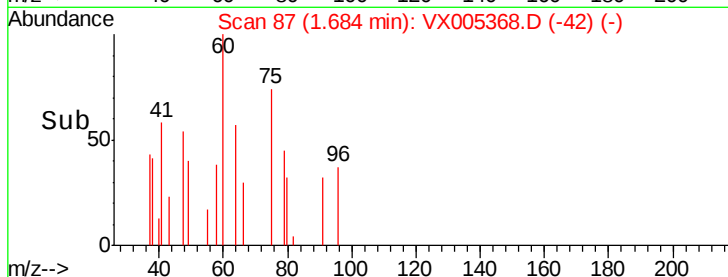
0

1.67

1.68

1.69

Time-->



#10

Methyl Iodide

Concen: 2.509 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX005368.D

Acq: 16 Oct 2018 15:04

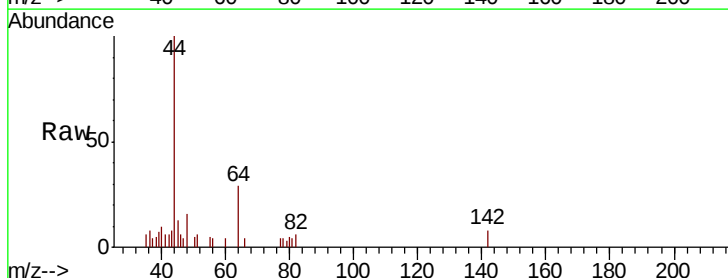
Tgt Ion: 142 Resp: 64

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): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

150

100

50

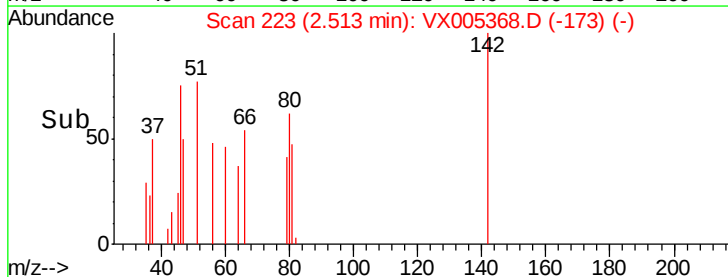
0

2.50

2.52

2.54

Time-->

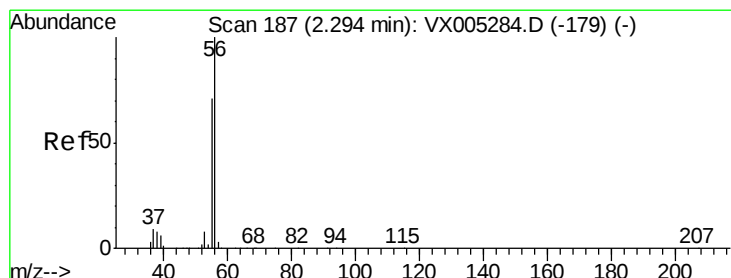
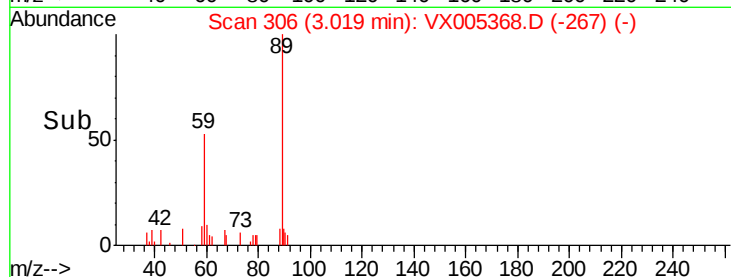
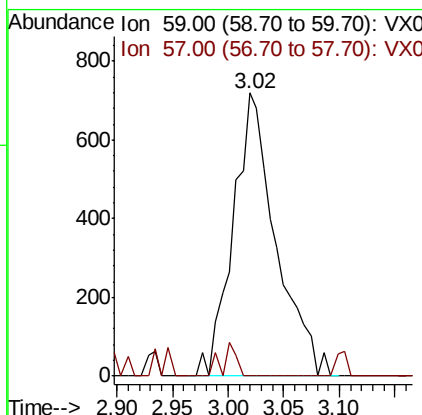
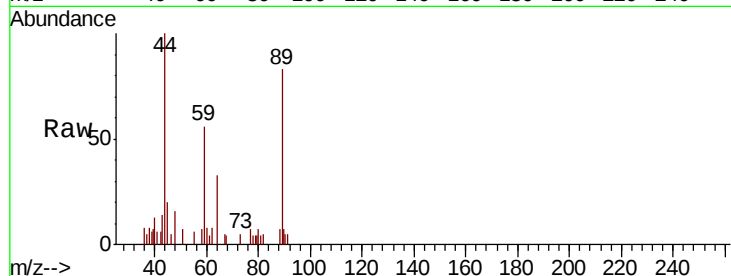




#11
Tert butyl alcohol
Concen: 1.977 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX005368.D
Acq: 16 Oct 2018 15:04

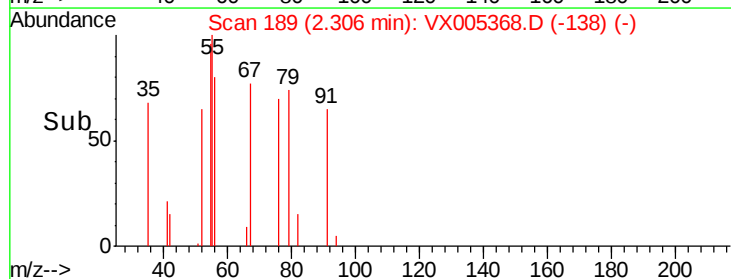
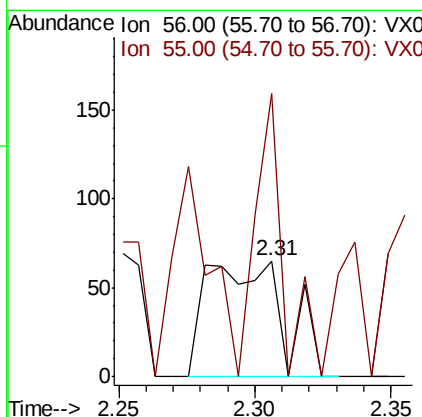
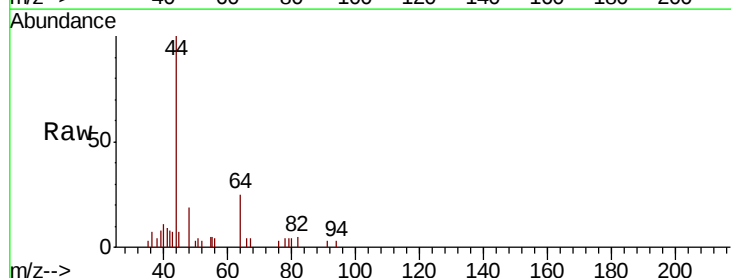
Instrument :
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MOSAIC-FRAC-TANK-101518

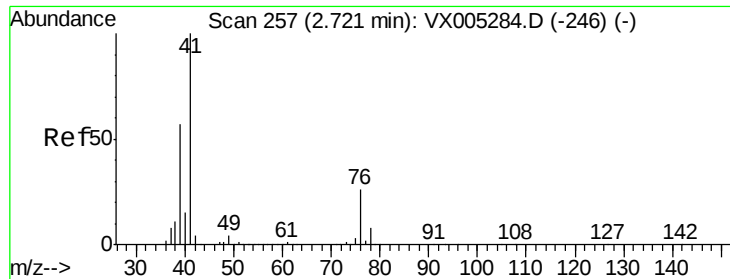
Tgt Ion: 59 Resp: 1918
Ion Ratio Lower Upper
59 100
57 3.8 8.2 12.4#



#13
Acrolein
Concen: Below Cal
RT: 2.31 min Scan# 189
Delta R.T. 0.01 min
Lab File: VX005368.D
Acq: 16 Oct 2018 15:04

Tgt Ion: 56 Resp: 127
Ion Ratio Lower Upper
56 100
55 88.2 54.7 82.1#

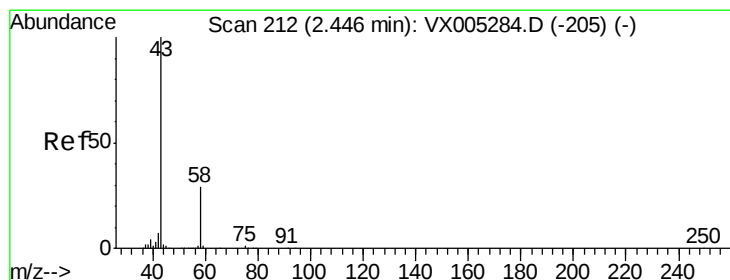
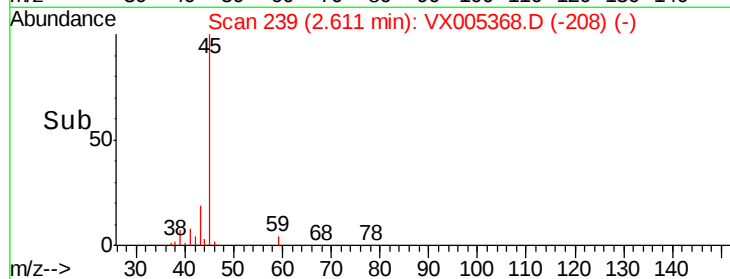
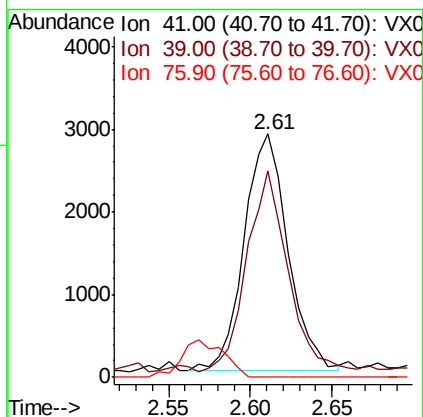
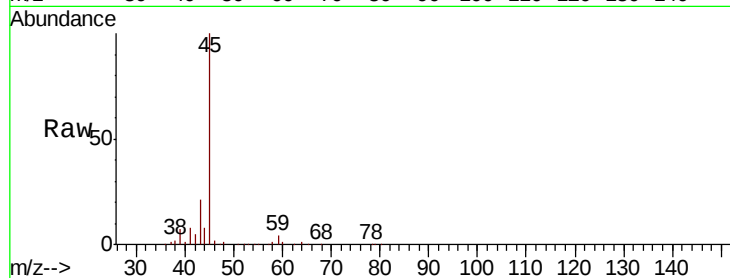




#14
 Allyl chloride
 Concen: 0.895 ug/l
 RT: 2.61 min Scan# 239
 Delta R.T. -0.11 min
 Lab File: VX005368.D
 Acq: 16 Oct 2018 15:04

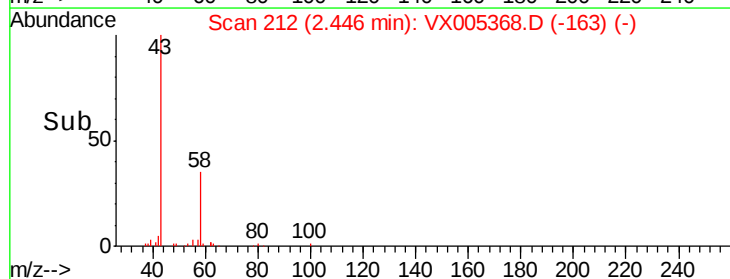
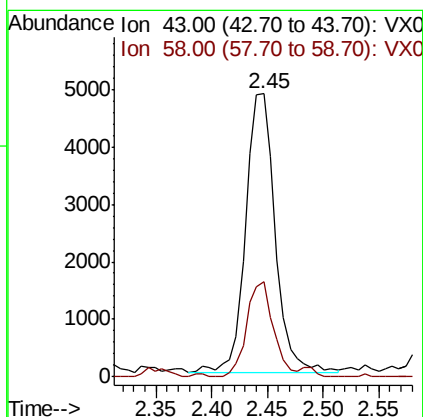
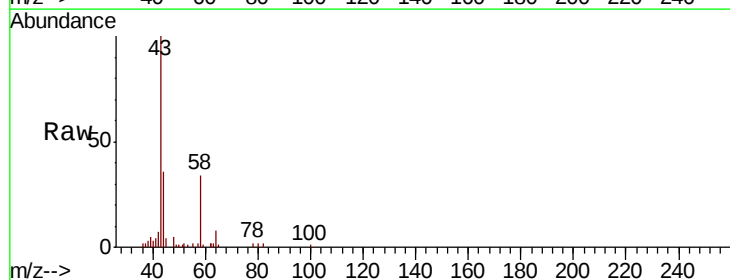
Instrument :
 MSVOA_X
 ClientSampleId :
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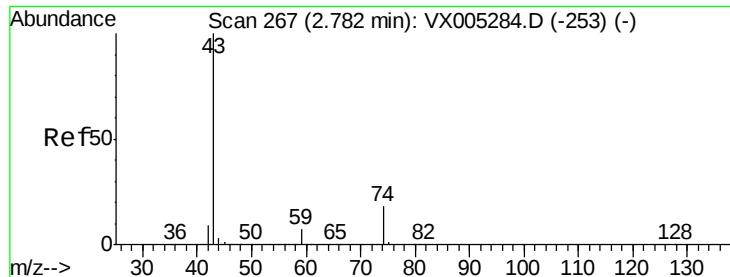
Tgt Ion: 41 Resp: 5334
 Ion Ratio Lower Upper
 41 100
 39 79.8 48.9 73.3#
 76 0.0 26.7 40.1#



#16
 Acetone
 Concen: 4.503 ug/l
 RT: 2.45 min Scan# 212
 Delta R.T. 0.00 min
 Lab File: VX005368.D
 Acq: 16 Oct 2018 15:04

Tgt Ion: 43 Resp: 8954
 Ion Ratio Lower Upper
 43 100
 58 34.1 26.2 39.4

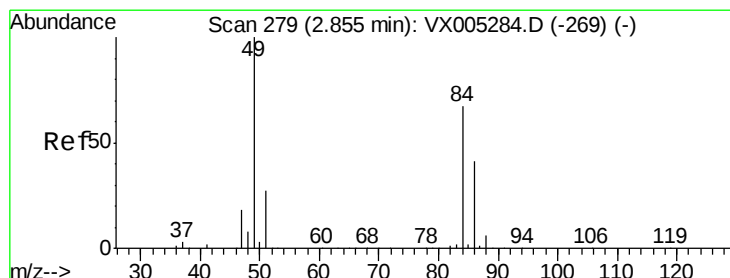
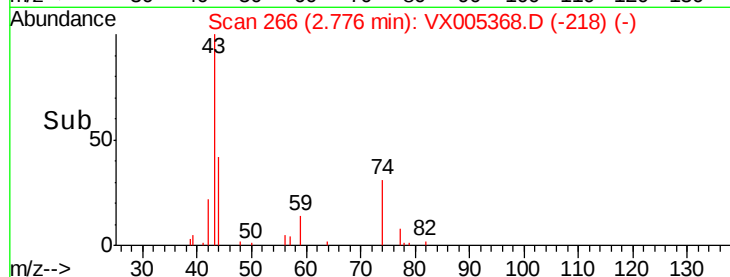
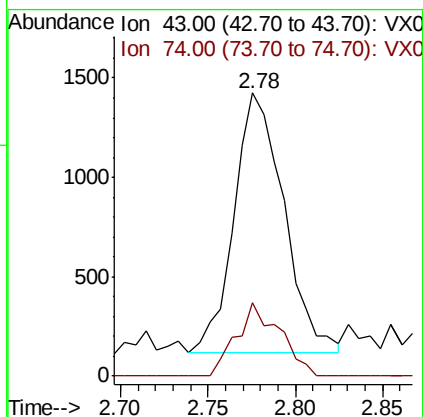
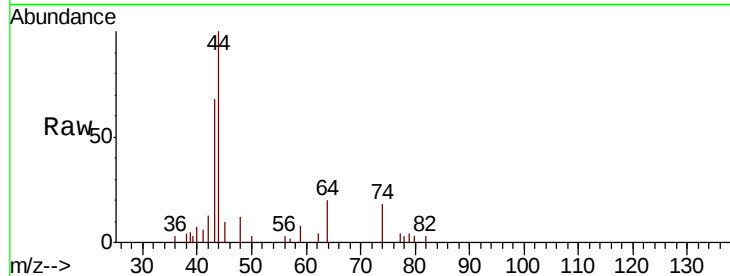




#18
Methyl Acetate
Concen: 0.456 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX005368.D
Acq: 16 Oct 2018 15:04

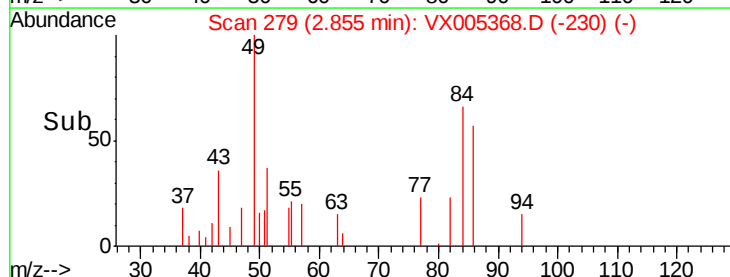
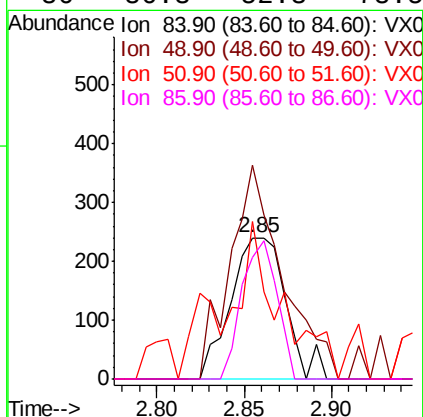
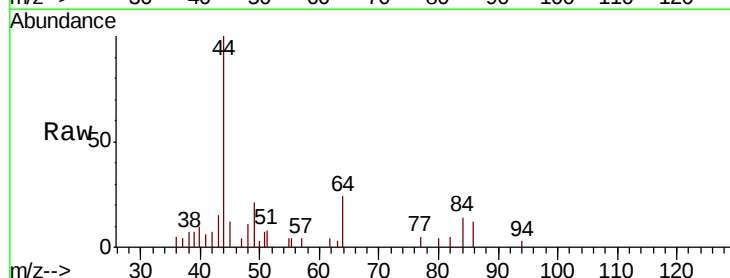
Instrument :
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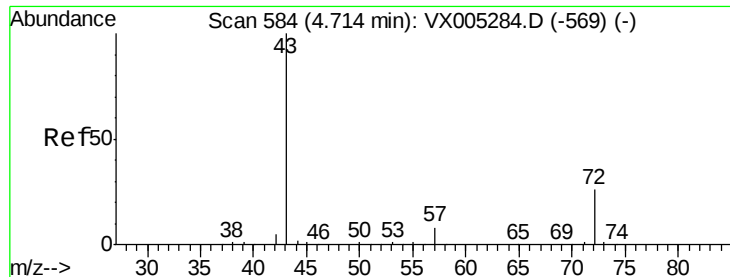
Tgt Ion: 43 Resp: 2580
Ion Ratio Lower Upper
43 100
74 24.7 19.4 29.2



#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX005368.D
Acq: 16 Oct 2018 15:04

Tgt Ion: 84 Resp: 530
Ion Ratio Lower Upper
84 100
49 151.3 101.2 151.8
51 111.7 29.5 44.3#
86 86.3 52.3 78.5#

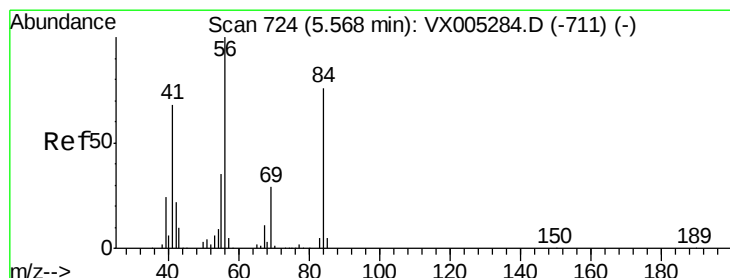
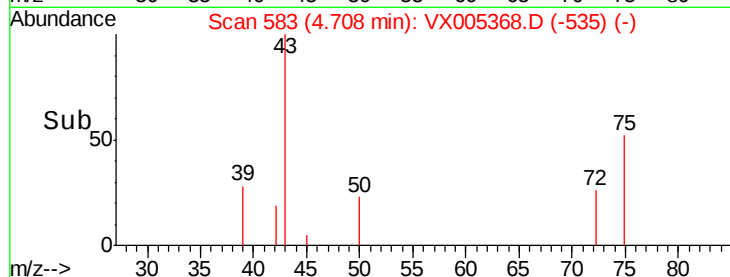
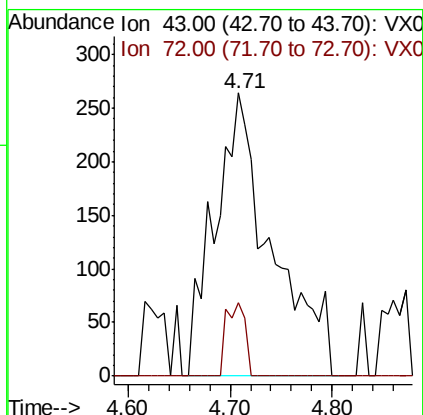
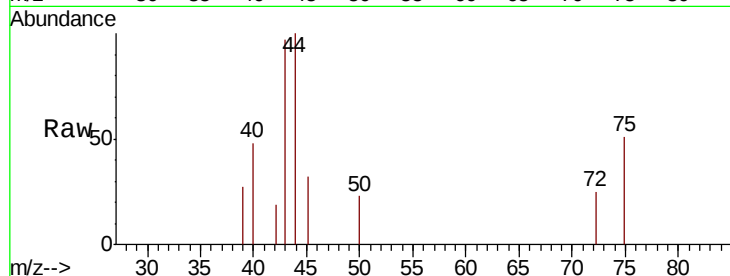




#25
2-Butanone
Concen: 0.351 ug/l
RT: 4.71 min Scan# 583
Delta R.T. -0.01 min
Lab File: VX005368.D
Acq: 16 Oct 2018 15:04

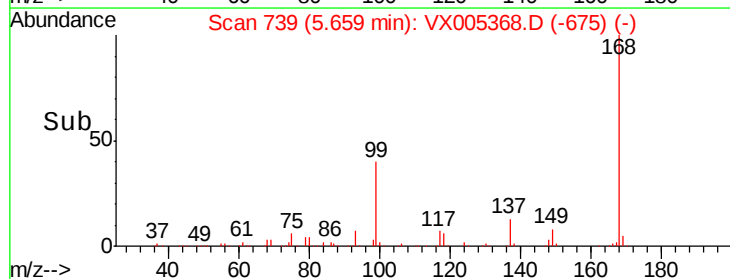
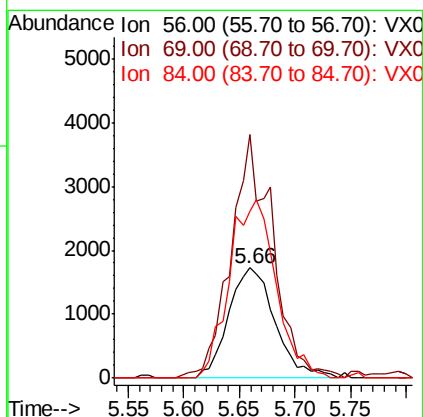
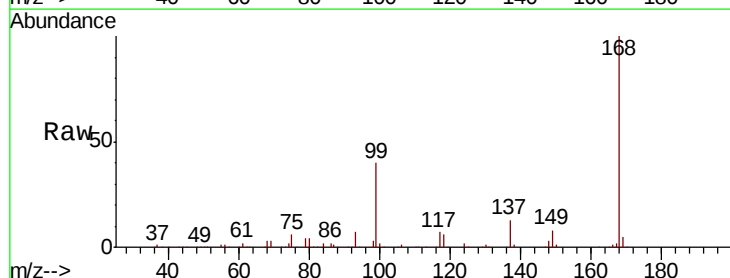
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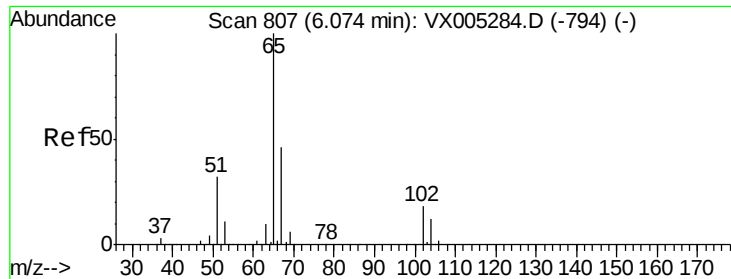
Tgt Ion: 43 Resp: 1022
Ion Ratio Lower Upper
43 100
72 25.8 22.0 33.0



#31
Cyclohexane
Concen: 1.061 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX005368.D
Acq: 16 Oct 2018 15:04

Tgt Ion: 56 Resp: 5018
Ion Ratio Lower Upper
56 100
69 217.3 25.4 38.2#
84 151.4 71.4 107.2#





#33

1,2-Dichloroethane-d4

Concen: 47.669 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.01 min

Lab File: VX005368.D

Acq: 16 Oct 2018 15:04

Instrument :

MSVOA_X

ClientSampleId :

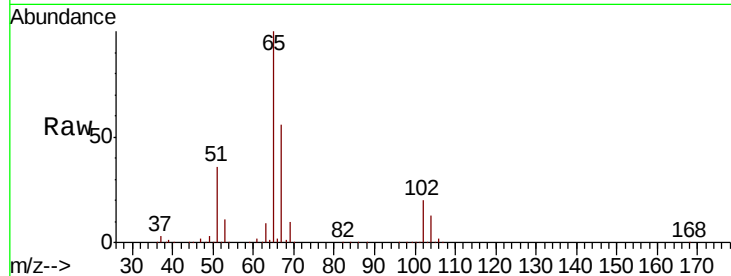
MOSAIC-FRAC-TANK-101518

Tgt Ion: 65 Resp: 163944

Ion Ratio Lower Upper

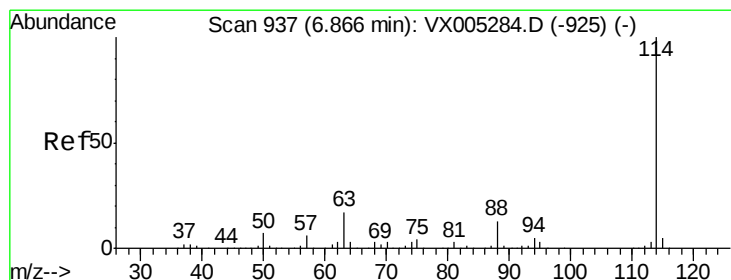
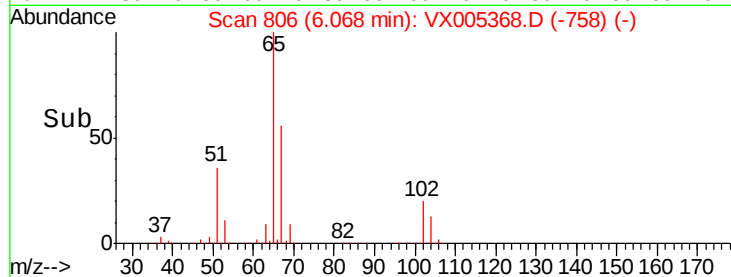
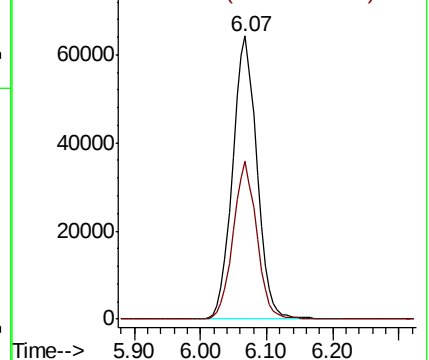
65 100

67 54.1 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.01 min

Lab File: VX005368.D

Acq: 16 Oct 2018 15:04

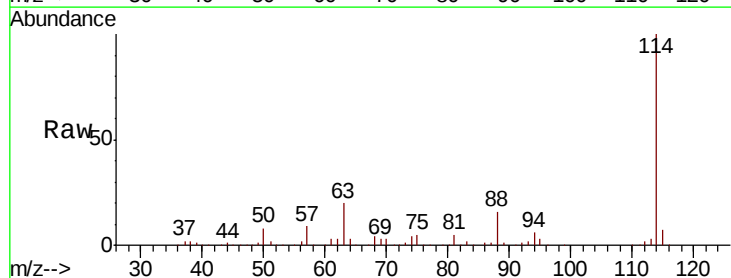
Tgt Ion: 114 Resp: 432900

Ion Ratio Lower Upper

114 100

63 20.5 0.0 39.0

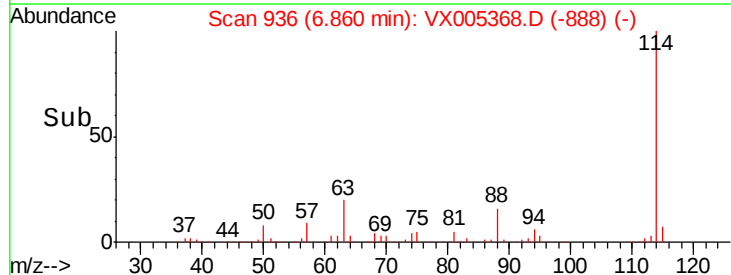
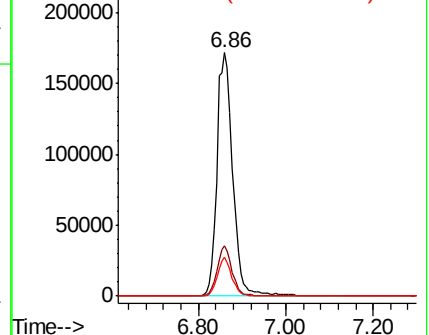
88 15.9 0.0 30.4

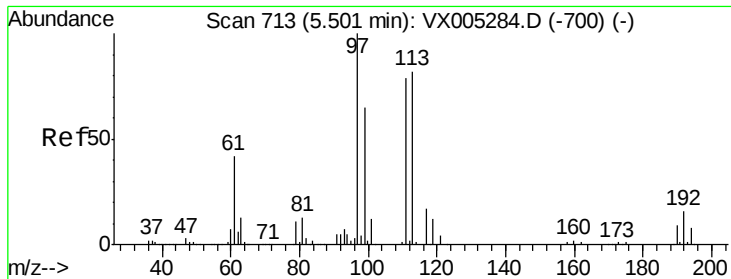


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 47.805 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.01 min

Lab File: VX005368.D

Acq: 16 Oct 2018 15:04

Instrument :

MSVOA_X

ClientSampleId :

MOSAIC-FRAC-TANK-101518

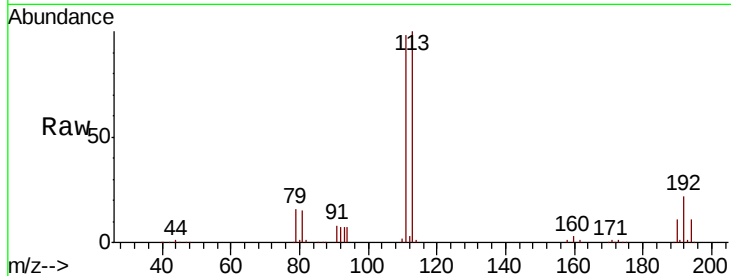
Tgt Ion:113 Resp: 137068

Ion Ratio Lower Upper

113 100

111 102.7 82.4 123.6

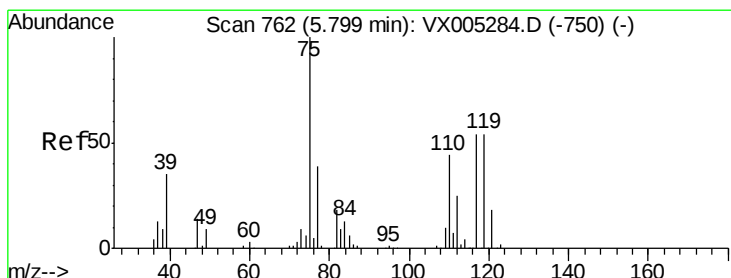
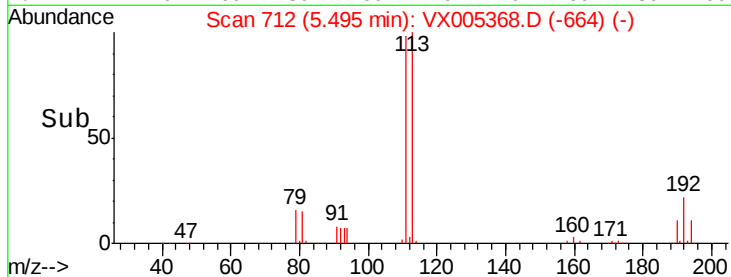
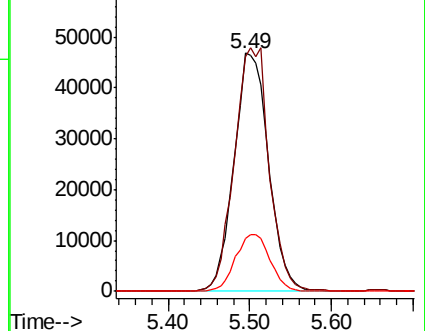
192 24.0 19.4 29.2



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: 4.678 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX005368.D

Acq: 16 Oct 2018 15:04

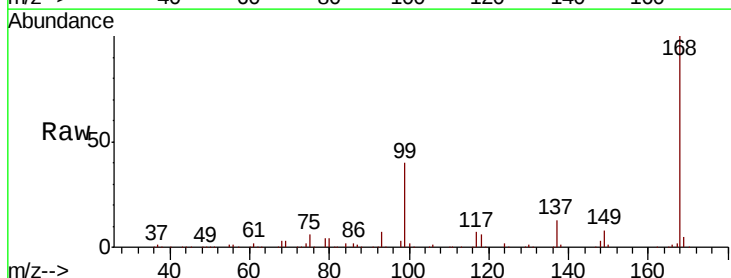
Tgt Ion: 75 Resp: 19611

Ion Ratio Lower Upper

75 100

110 9.5 18.0 54.0#

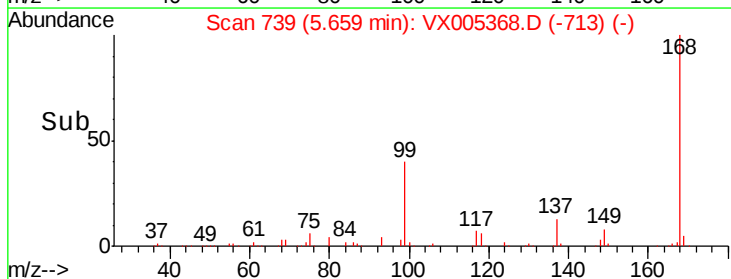
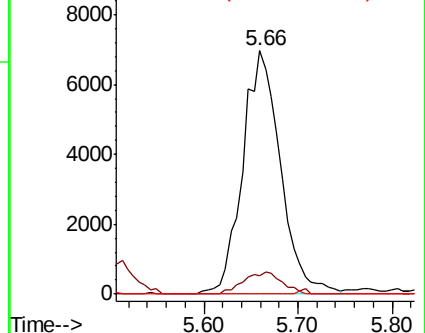
77 0.0 24.6 36.8#

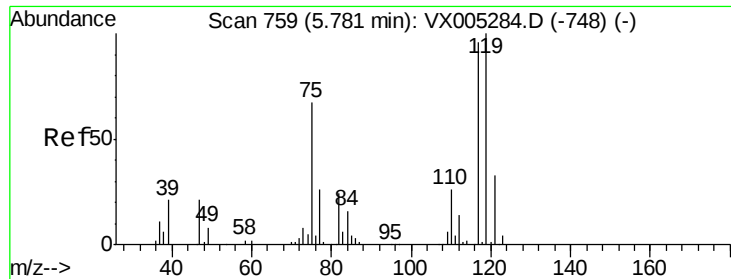


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.142 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX005368.D

Acq: 16 Oct 2018 15:04

Instrument :

MSVOA_X

ClientSampleId :

MOSAIC-FRAC-TANK-101518

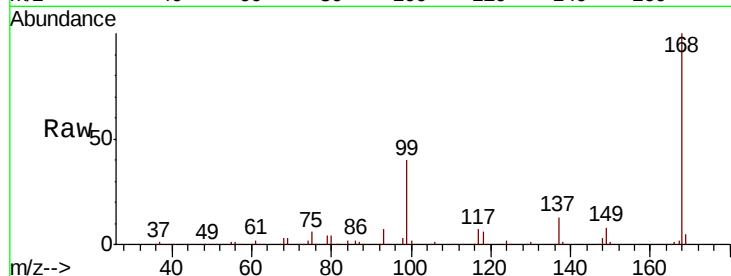
Tgt Ion: 117 Resp: 25876

Ion Ratio Lower Upper

117 100

119 5.9 78.8 118.2#

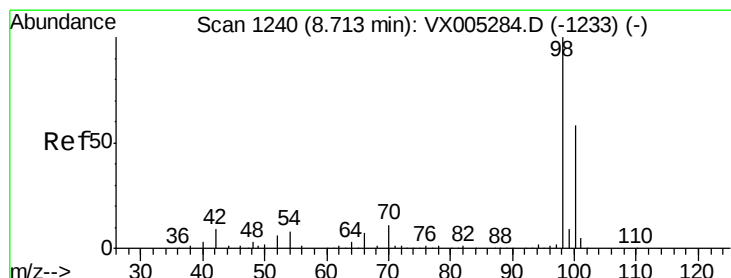
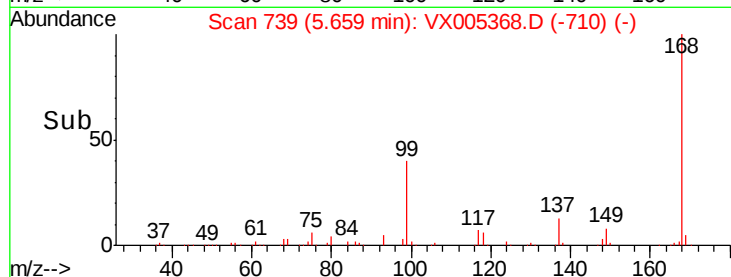
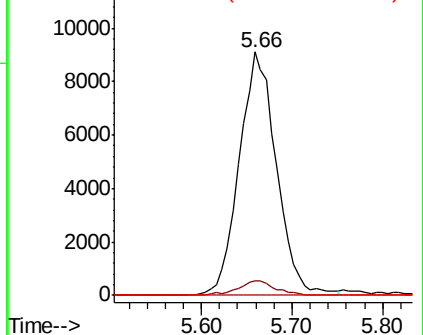
121 0.0 24.9 37.3#



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: 50.710 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX005368.D

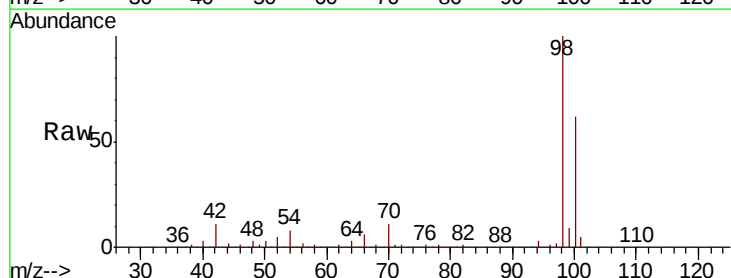
Acq: 16 Oct 2018 15:04

Tgt Ion: 98 Resp: 499152

Ion Ratio Lower Upper

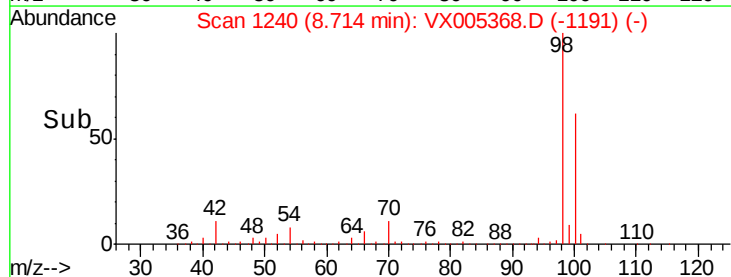
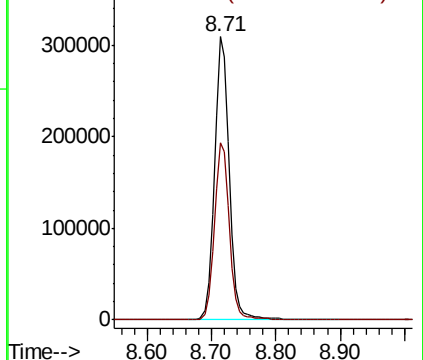
98 100

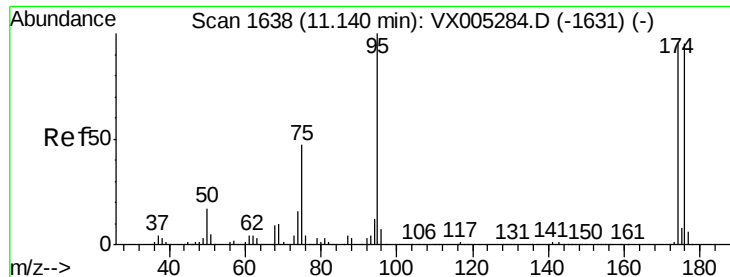
100 63.8 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 45.998 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX005368.D

Acq: 16 Oct 2018 15:04

Instrument :

MSVOA_X

ClientSampleId :

MOSAIC-FRAC-TANK-101518

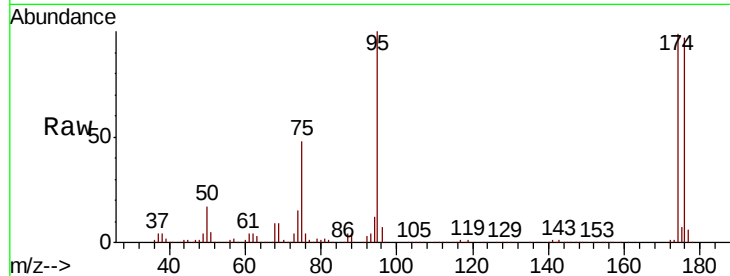
Tgt Ion: 95 Resp: 170089

Ion Ratio Lower Upper

95 100

174 95.4 0.0 185.2

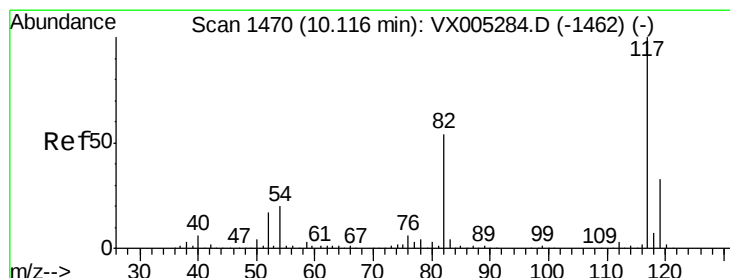
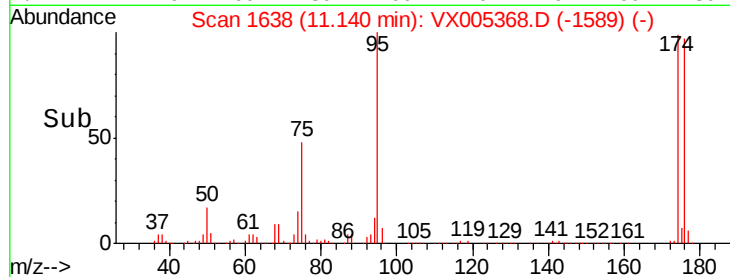
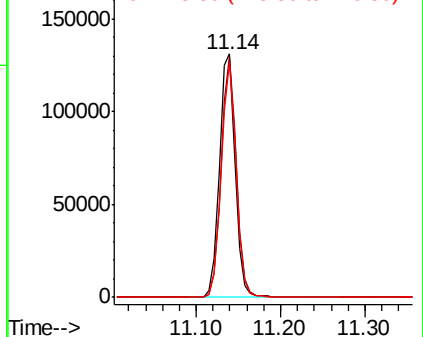
176 91.6 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX005368.D

Acq: 16 Oct 2018 15:04

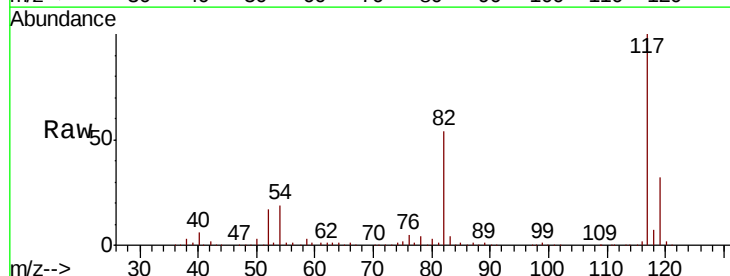
Tgt Ion: 117 Resp: 375690

Ion Ratio Lower Upper

117 100

82 53.6 47.8 71.6

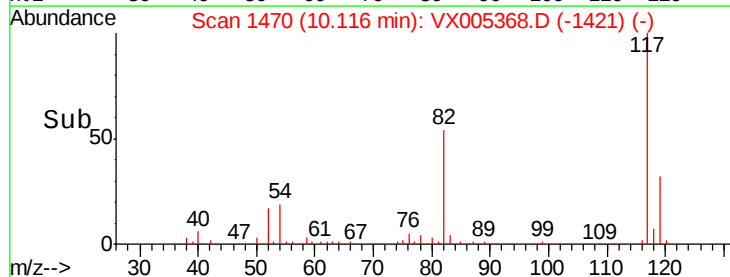
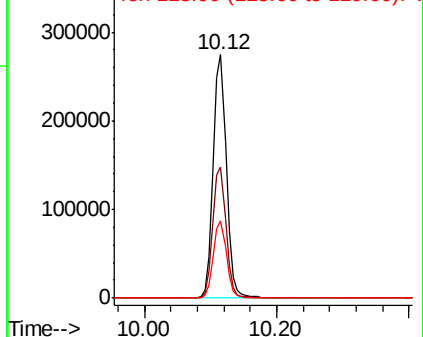
119 31.9 29.3 43.9

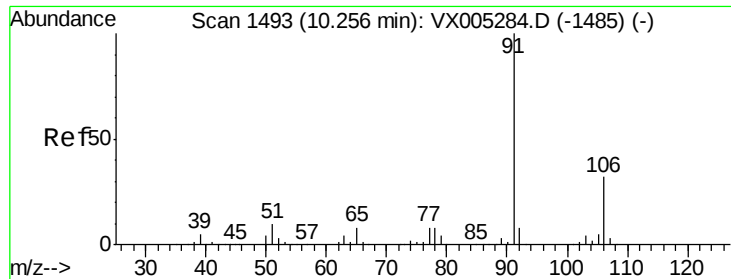


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

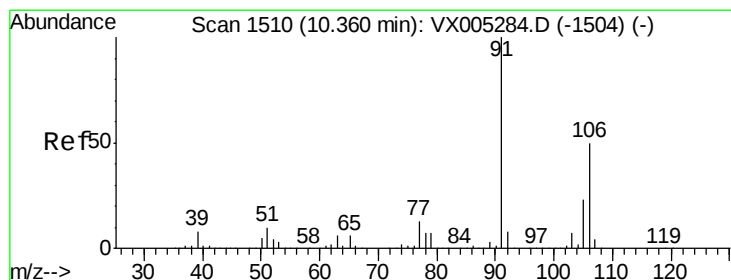
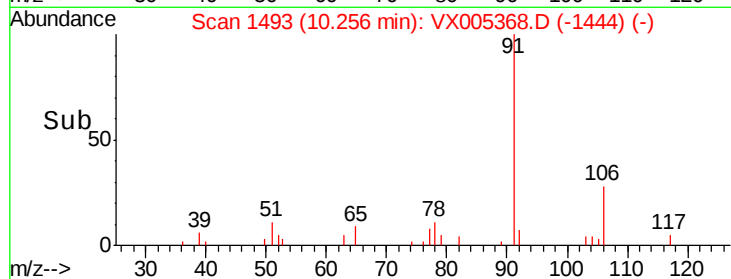
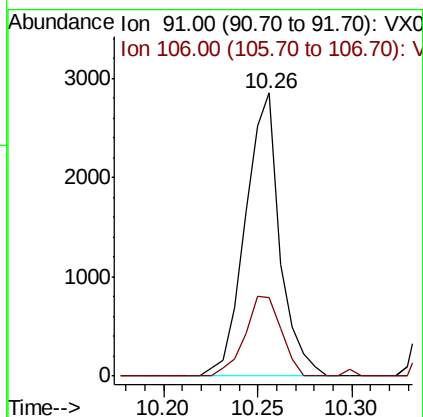
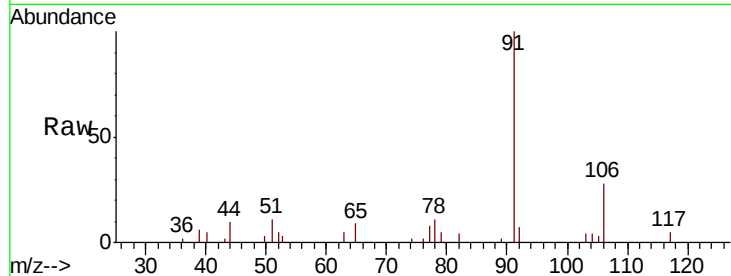




#67
Ethyl Benzene
Concen: 0.279 ug/l
RT: 10.26 min Scan# 1493
Delta R.T. 0.00 min
Lab File: VX005368.D
Acq: 16 Oct 2018 15:04

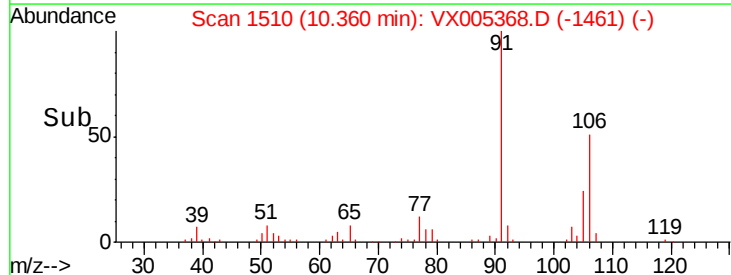
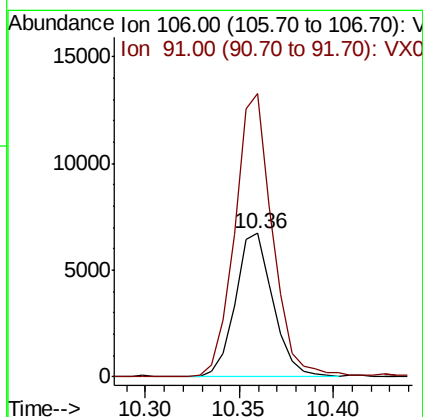
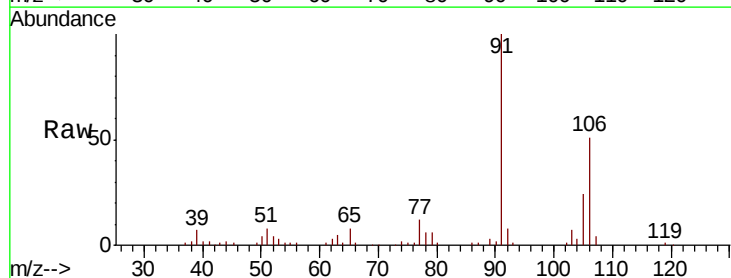
Instrument :
MSVOA_X
ClientSampleId :
MOSAIC-FRAC-TANK-101518

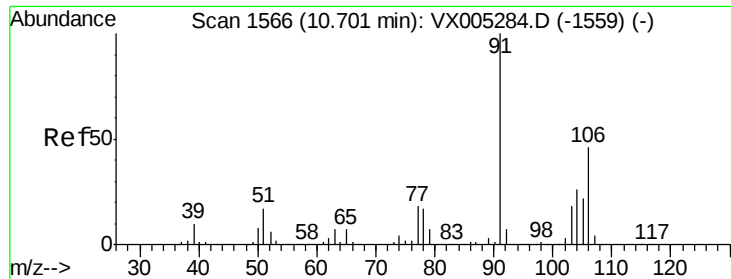
Tgt Ion: 91 Resp: 3620
Ion Ratio Lower Upper
91 100
106 27.6 25.9 38.9



#68
m/p-Xylenes
Concen: 1.852 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. 0.00 min
Lab File: VX005368.D
Acq: 16 Oct 2018 15:04

Tgt Ion: 106 Resp: 9338
Ion Ratio Lower Upper
106 100
91 196.8 157.1 235.7

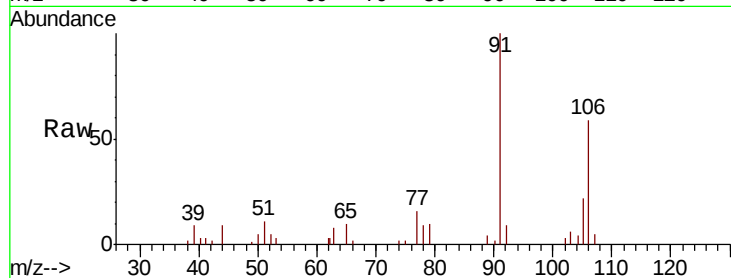




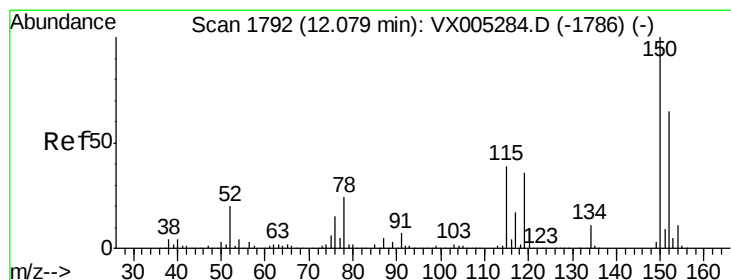
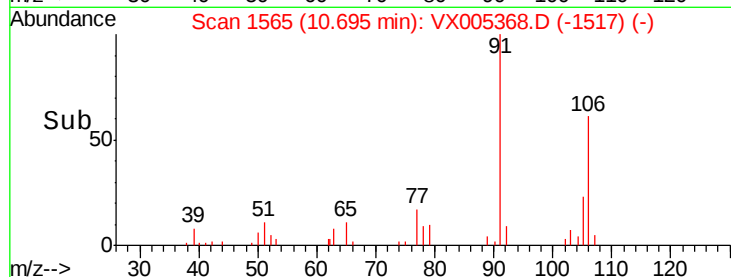
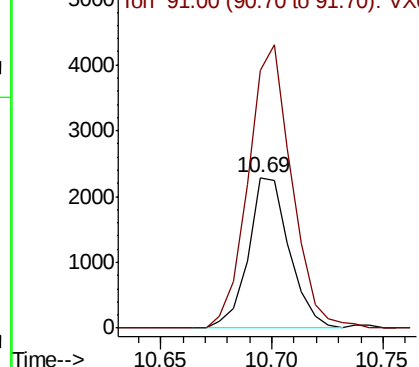
#69
o-Xylene
Concen: 0.604 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. -0.01 min
Lab File: VX005368.D
Acq: 16 Oct 2018 15:04

Instrument :
MSVOA_X
ClientSampleId :
MOSAIC-FRAC-TANK-101518

Tgt Ion:106 Resp: 2936
Ion Ratio Lower Upper
106 100
91 198.7 105.1 315.1

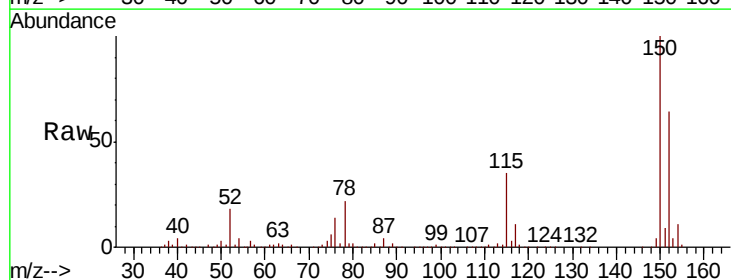


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX

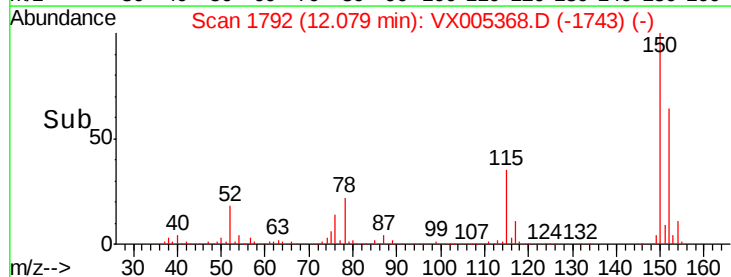
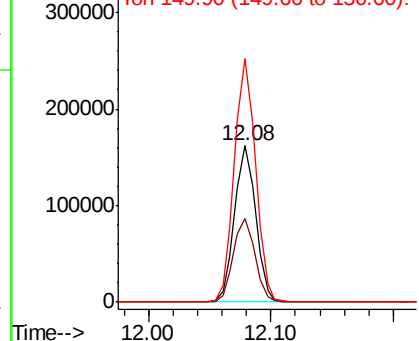


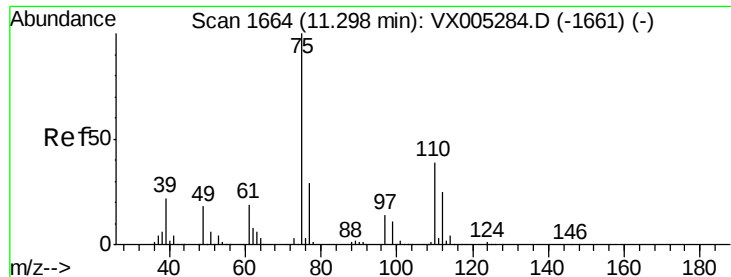
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX005368.D
Acq: 16 Oct 2018 15:04

Tgt Ion:152 Resp: 193447
Ion Ratio Lower Upper
152 100
115 54.8 39.0 117.0
150 155.9 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





#76

1,2,3-Trichloropropane

Concen: 21.854 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005368.D

Acq: 16 Oct 2018 15:04

Instrument :

MSVOA_X

ClientSampleId :

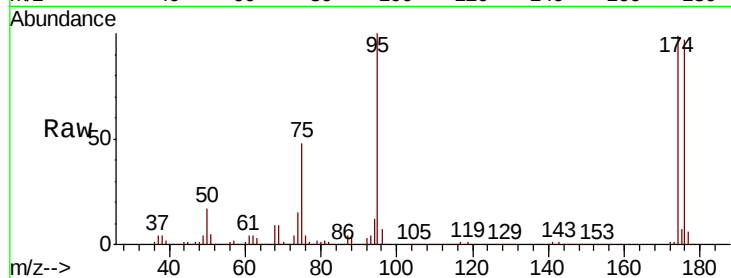
MOSAIC-FRAC-TANK-101518

Tgt Ion: 75 Resp: 82003

Ion Ratio Lower Upper

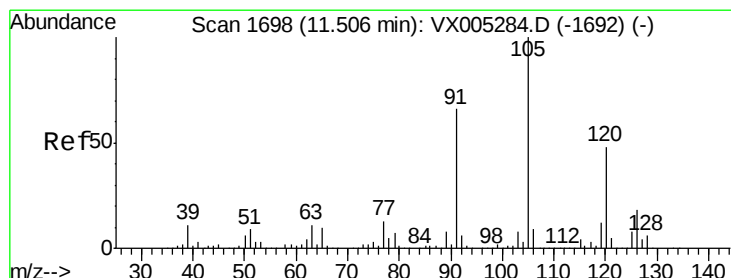
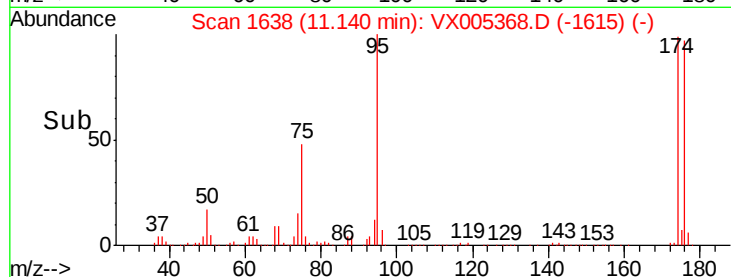
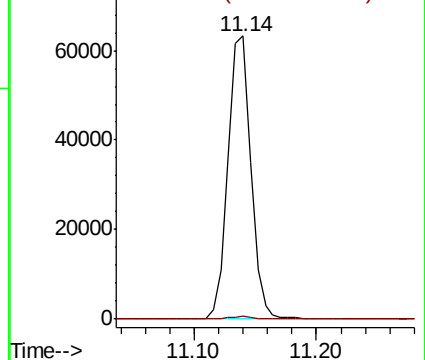
75 100

77 1.2 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#80

1,3,5-Trimethylbenzene

Concen: 1.533 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX005368.D

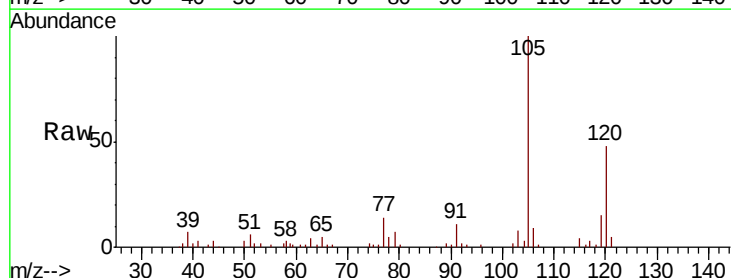
Acq: 16 Oct 2018 15:04

Tgt Ion: 105 Resp: 15101

Ion Ratio Lower Upper

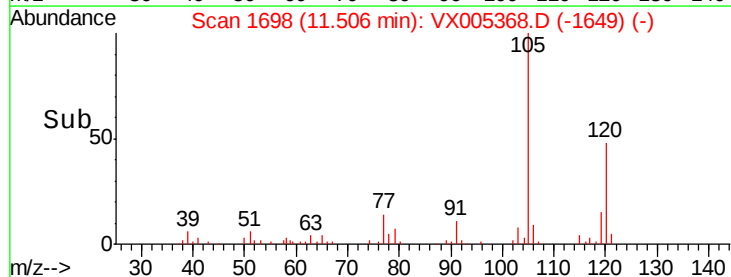
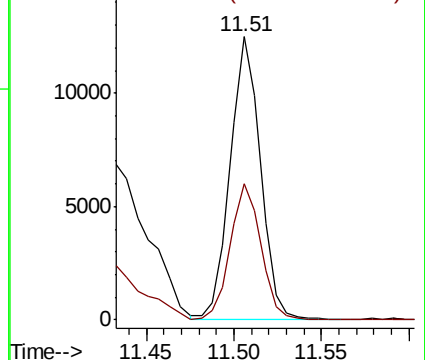
105 100

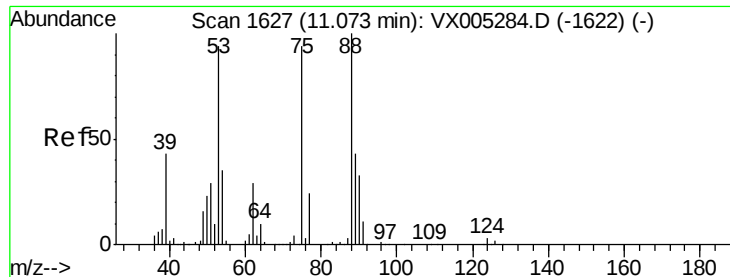
120 48.4 25.6 76.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

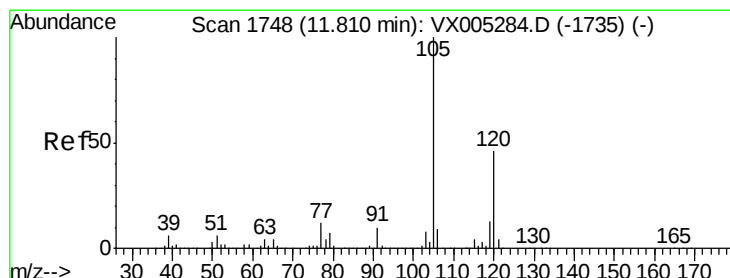
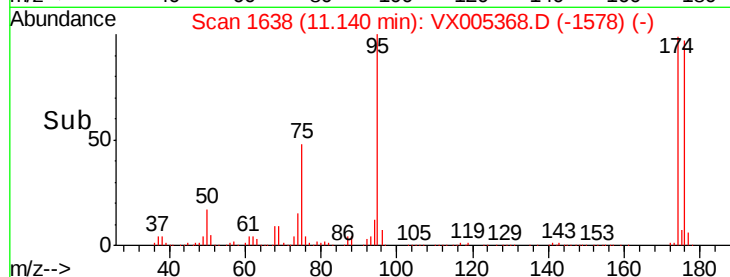
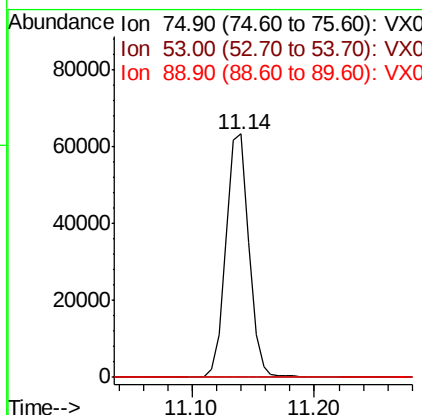
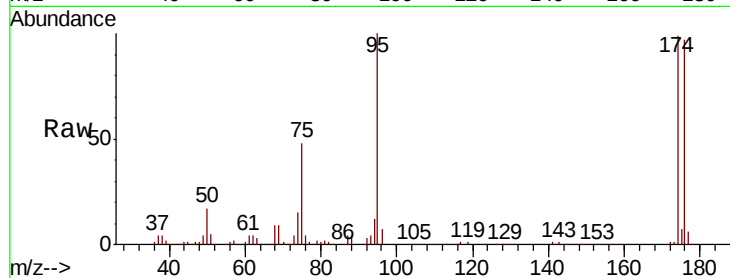




#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.403 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.07 min
 Lab File: VX005368.D
 Acq: 16 Oct 2018 15:04

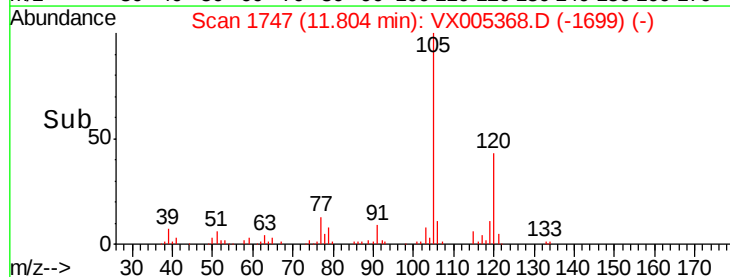
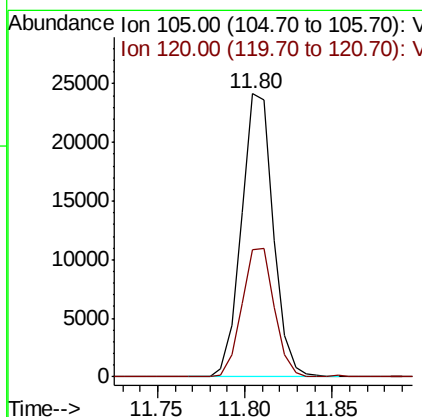
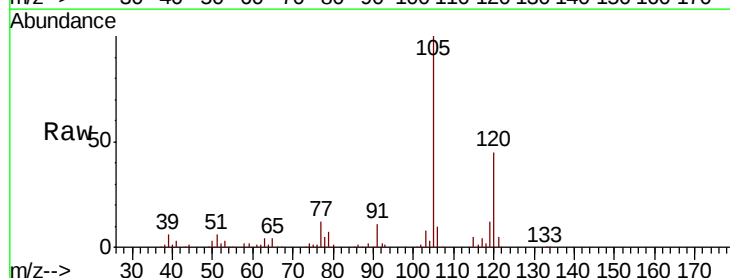
Instrument :
 MSVOA_X
 ClientSampleId :
 MOSAIC-FRAC-TANK-101518

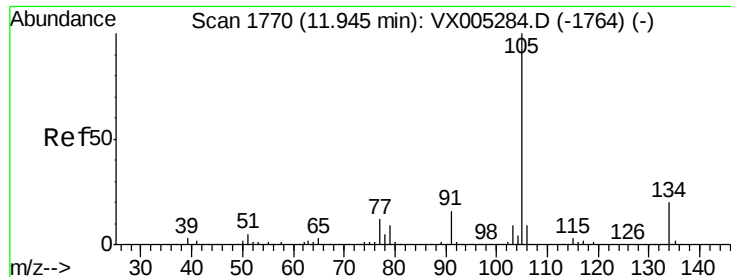
Tgt Ion: 75 Resp: 82003
 Ion Ratio Lower Upper
 75 100
 53 0.3 80.1 120.1#
 89 0.0 37.2 55.8#



#84
 1,2,4-Trimethylbenzene
 Concen: 3.010 ug/l
 RT: 11.80 min Scan# 1747
 Delta R.T. -0.01 min
 Lab File: VX005368.D
 Acq: 16 Oct 2018 15:04

Tgt Ion: 105 Resp: 30505
 Ion Ratio Lower Upper
 105 100
 120 46.2 23.2 69.6

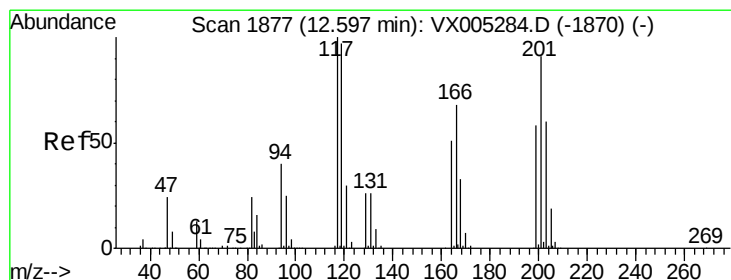
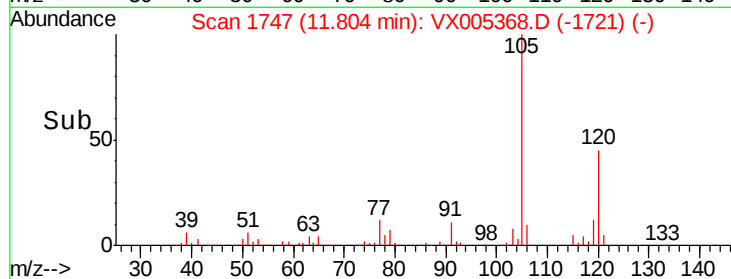
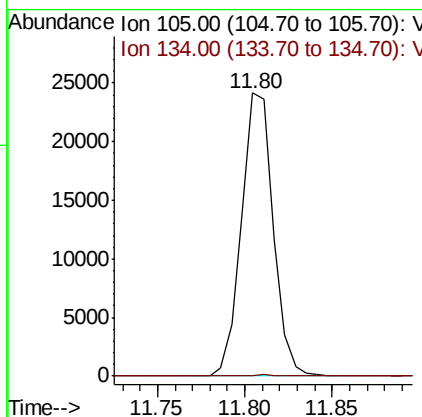
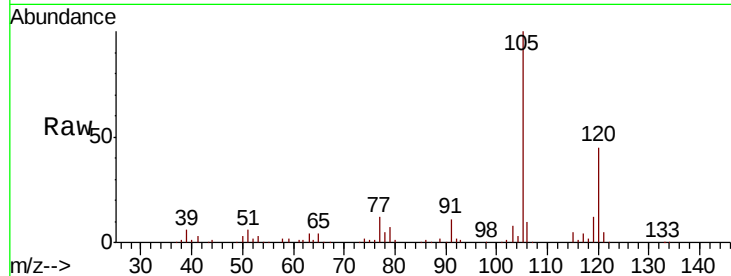




#85
 sec-Butylbenzene
 Concen: 2.585 ug/l
 RT: 11.80 min Scan# 1747
 Delta R.T. -0.14 min
 Lab File: VX005368.D
 Acq: 16 Oct 2018 15:04

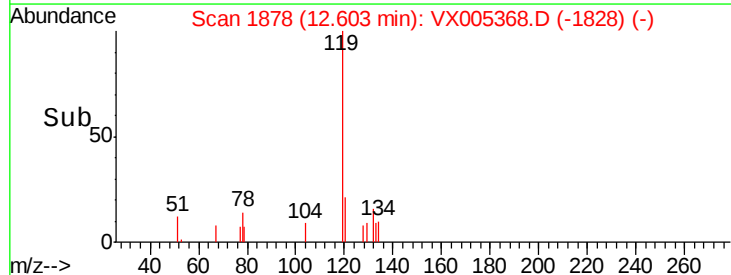
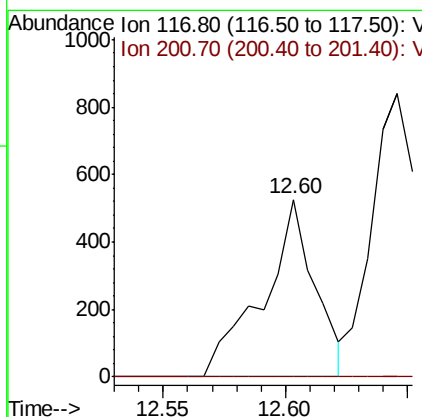
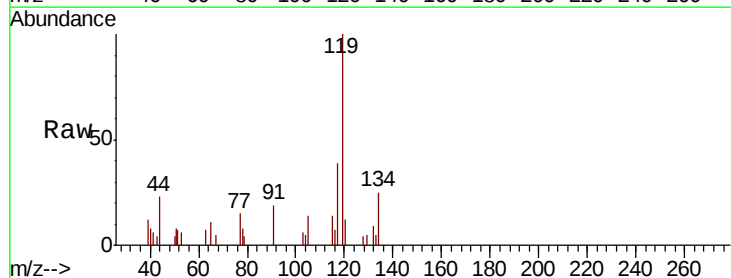
Instrument :
 MSVOA_X
 ClientSampleId :
 MOSAIC-FRAC-TANK-101518

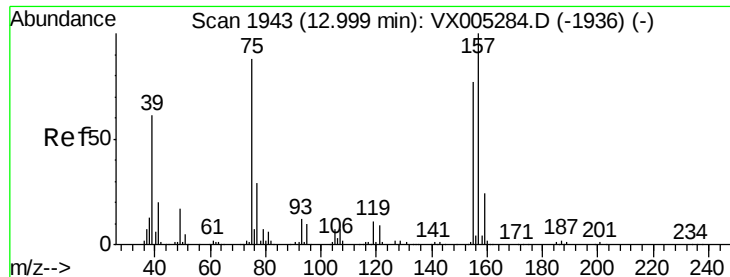
Tgt Ion:105 Resp: 30505
 Ion Ratio Lower Upper
 105 100
 134 0.2 10.5 31.5#



#90
 Hexachloroethane
 Concen: 0.425 ug/l
 RT: 12.60 min Scan# 1878
 Delta R.T. 0.01 min
 Lab File: VX005368.D
 Acq: 16 Oct 2018 15:04

Tgt Ion:117 Resp: 781
 Ion Ratio Lower Upper
 117 100
 201 0.0 46.9 140.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.554 ug/l

RT: 13.02 min Scan# 1946

Delta R.T. 0.02 min

Lab File: VX005368.D

Acq: 16 Oct 2018 15:04

Instrument :

MSVOA_X

ClientSampleId :

MOSAIC-FRAC-TANK-101518

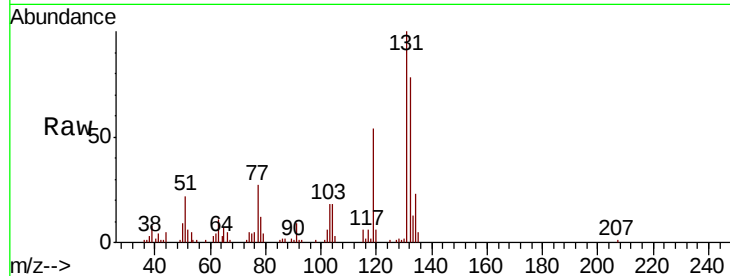
Tgt Ion: 75 Resp: 586

Ion Ratio Lower Upper

75 100

155 0.0 48.0 144.2#

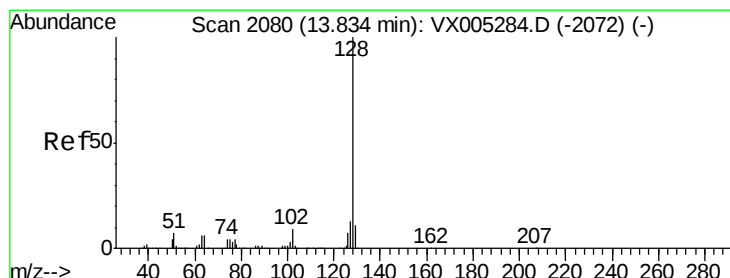
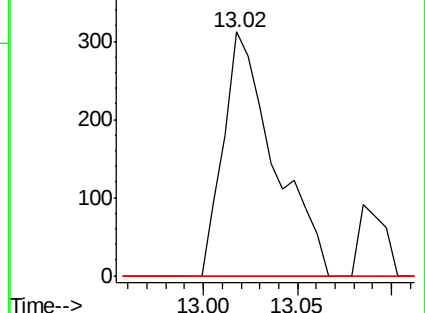
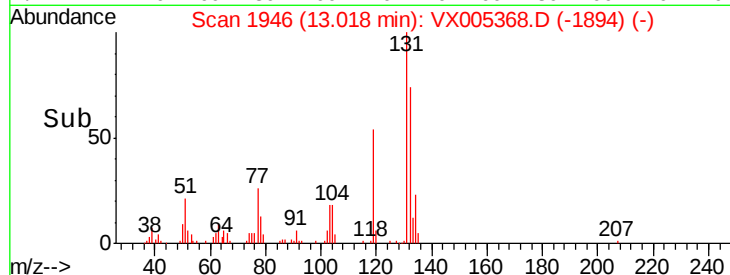
157 0.0 61.4 184.1#



Abundance Ion 74.90 (74.60 to 75.60): VX005368.D (-1894) (-)

Ion 154.80 (154.50 to 155.50): VX005368.D (-1894) (-)

Ion 156.80 (156.50 to 157.50): VX005368.D (-1894) (-)



#95

Naphthalene

Concen: 121.343 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX005368.D

Acq: 16 Oct 2018 15:04

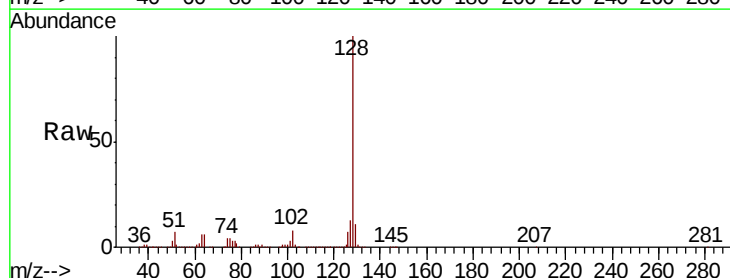
Tgt Ion: 128 Resp: 1618840

Ion Ratio Lower Upper

128 100

127 13.0 10.2 15.2

129 10.9 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): VX005368.D (-2031) (-)

Ion 127.00 (126.70 to 127.70): VX005368.D (-2031) (-)

Ion 129.00 (128.70 to 129.70): VX005368.D (-2031) (-)

