

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120920\
 Data File : VX019784.D
 Acq On : 09 Dec 2020 17:21
 Operator : JC/MD
 Sample : L4971-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 5S1-C-BOTTOM

Quant Time: Dec 10 05:41:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 04 15:32:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	339376	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	548084	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	496877	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	207729	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	207551	46.53	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	93.06%
35) Dibromofluoromethane	5.46	113	169140	47.75	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	95.50%
50) Toluene-d8	8.70	98	670354	49.57	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	99.14%
62) 4-Bromofluorobenzene	11.12	95	229323	44.55	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	89.10%

Target Compounds

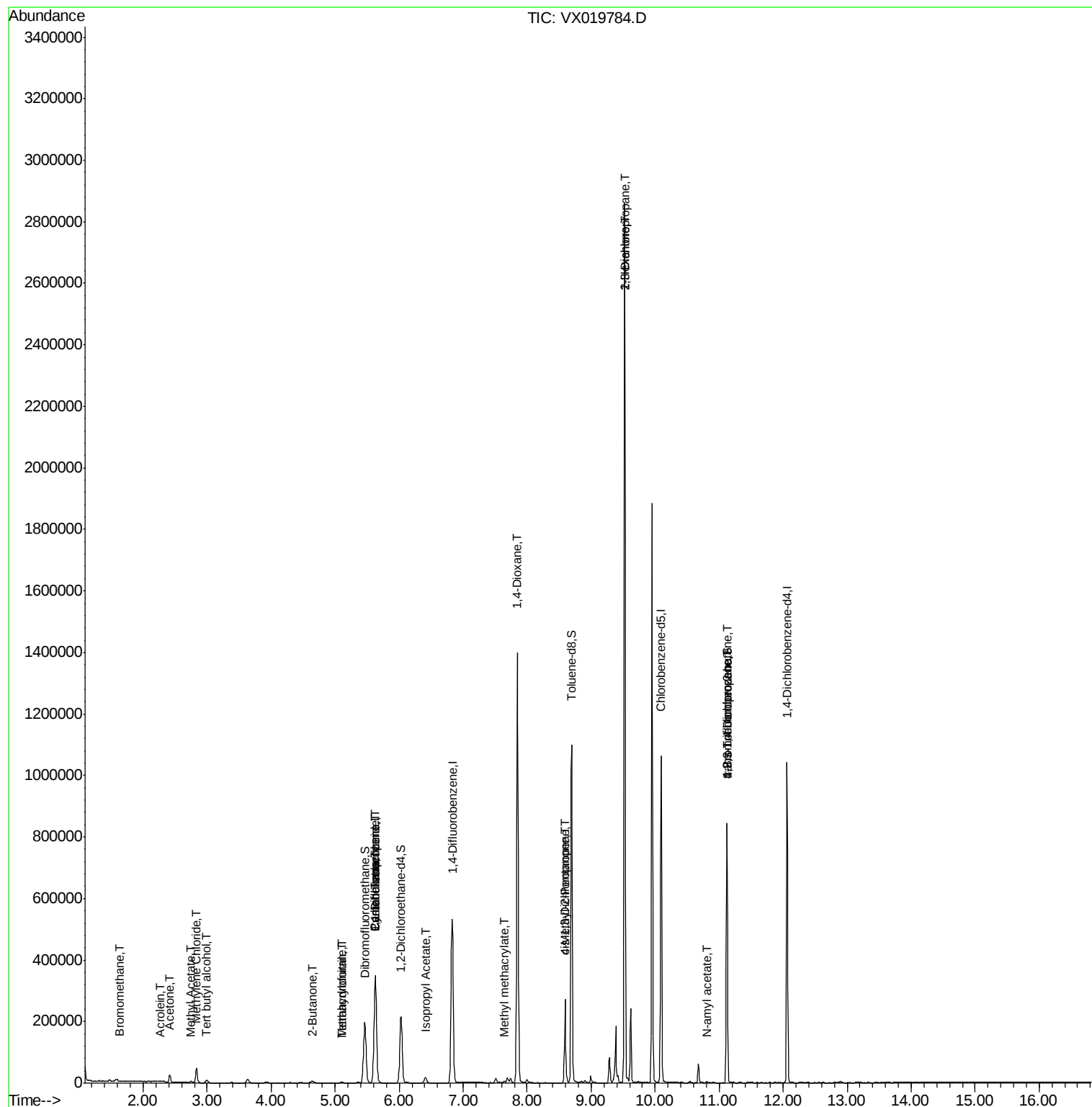
					Qvalue	
5) Bromomethane	1.63	94	350	0.274	ug/l	87
11) Tert butyl alcohol	2.99	59	5409	3.320	ug/l #	83
13) Acrolein	2.26	56	353	0.717	ug/l #	14
16) Acetone	2.42	43	26817	15.995	ug/l	95
18) Methyl Acetate	2.75	43	5142	1.253	ug/l	95
20) Methylene Chloride	2.83	84	22599	4.613	ug/l	97
25) 2-Butanone	4.64	43	5119	1.987	ug/l	91
29) Tetrahydrofuran	5.09	42	1235	0.744	ug/l #	83
31) Cyclohexane	5.62	56	6446	1.162	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	24917	5.031	ug/l #	49
38) Carbon Tetrachloride	5.63	117	32820	6.767	ug/l #	17
41) Methacrylonitrile	5.10	41	875	0.319	ug/l #	34
43) Isopropyl Acetate	6.41	43	23620	2.905	ug/l	98
48) Methyl methacrylate	7.65	41	6555	1.639	ug/l #	10
49) 1,4-Dioxane	7.84	88	203	2.096	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	85539	17.233	ug/l #	46
54) cis-1,3-Dichloropropene	8.59	75	45327	7.420	ug/l #	58
57) 1,3-Dichloropropane	9.52	76	25055	3.848	ug/l #	43
59) 2-Hexanone	9.52	43	304196	79.065	ug/l #	46
74) N-amyl acetate	10.80	43	1650	0.290	ug/l #	46
76) 1,2,3-Trichloropropane	11.12	75	110479	23.713	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	110479	68.550	ug/l #	12

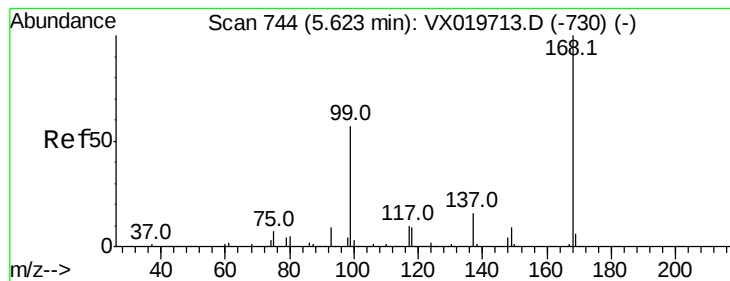
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 10 05:41:29 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 04 15:32:53 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX019784.D

Acq: 09 Dec 2020 17:21

Instrument :

MSVOA_X

ClientSampleId :

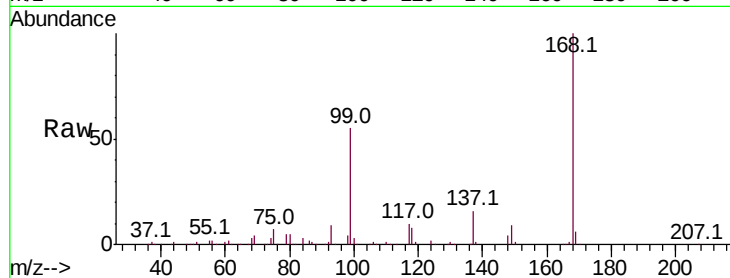
5S1-C-BOTTOM

Tot Ion:168 Resp: 339376

Ion Ratio Lower Upper

168 100

99 55.2 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

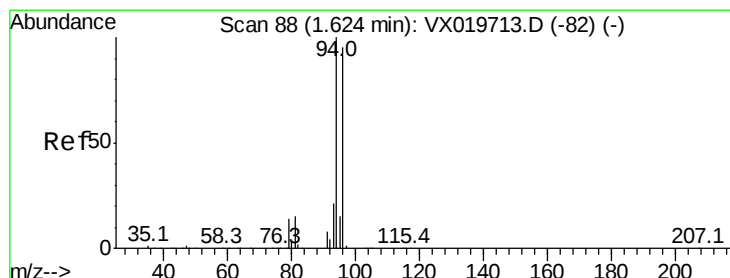
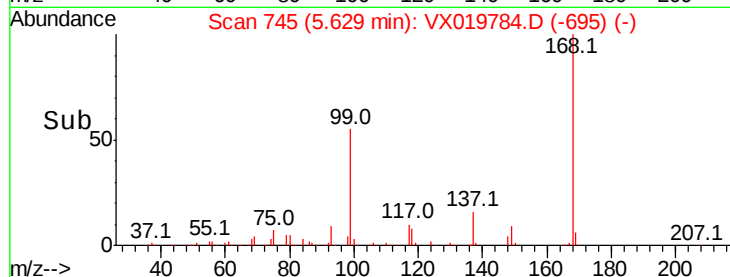
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#5

Bromomethane

Concen: 0.274 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019784.D

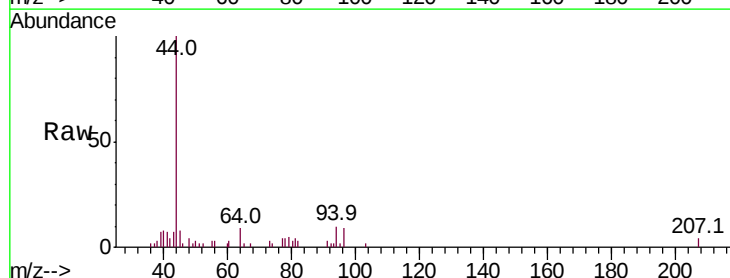
Acq: 09 Dec 2020 17:21

Tgt Ion: 94 Resp: 350

Ion Ratio Lower Upper

94 100

96 83.0 76.4 114.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

300

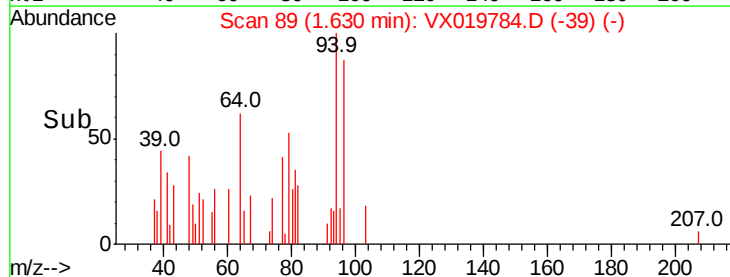
200

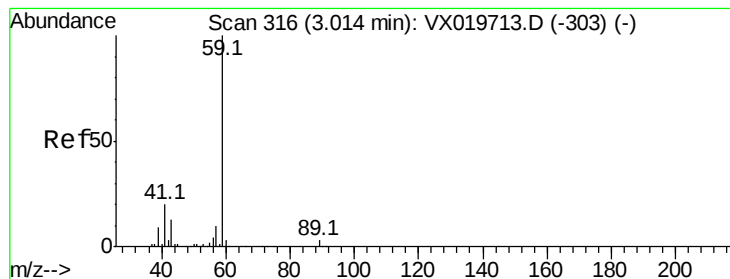
100

0

1.60 1.62 1.64 1.66

Time-->



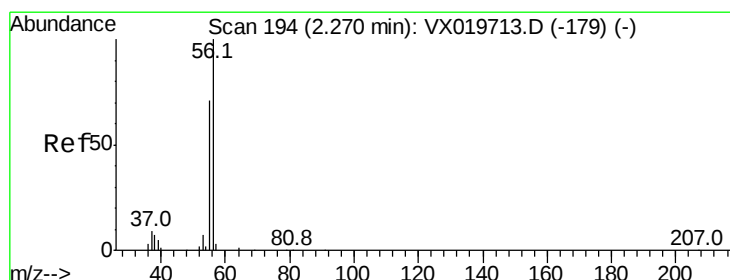
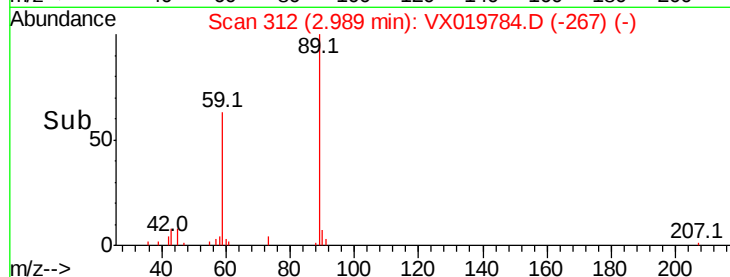
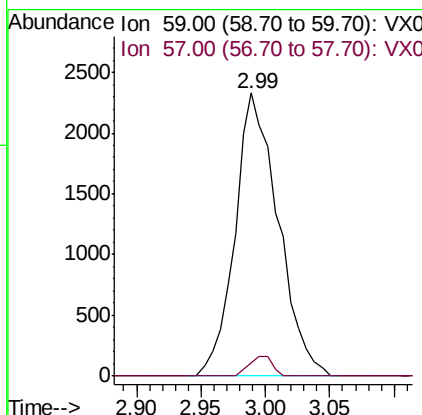
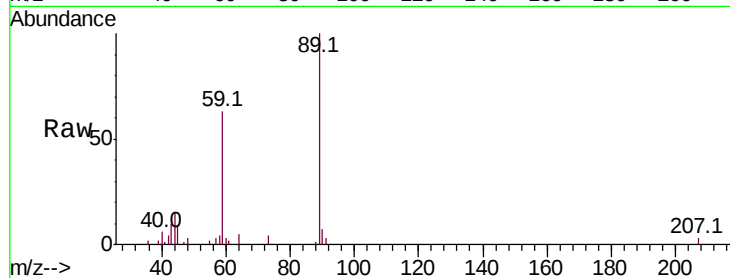


#11

Tert butyl alcohol
 Concen: 3.320 ug/l
 RT: 2.99 min Scan# 312
 Delta R.T. -0.02 min
 Lab File: VX019784.D
 Acq: 09 Dec 2020 17:21

Instrument :
 MSVOA_X
 ClientSampleId :
 5S1-C-BOTTOM

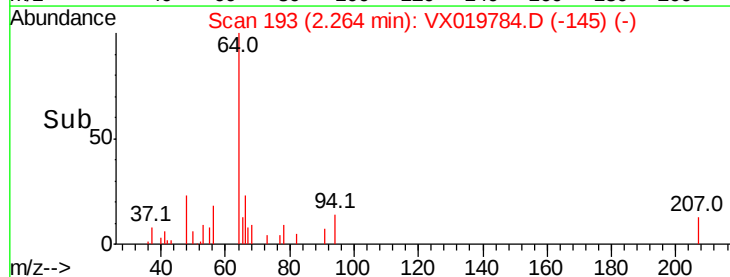
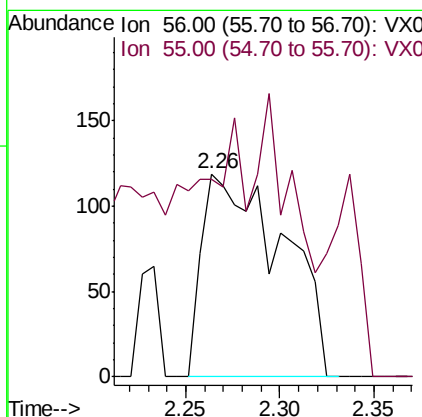
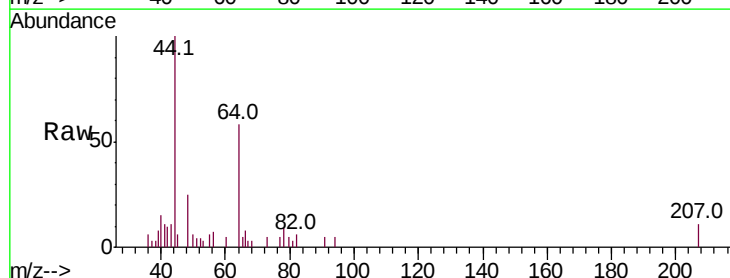
Tot Ion: 59 Resp: 5409
 Ion Ratio Lower Upper
 59 100
 57 3.7 7.8 11.8#

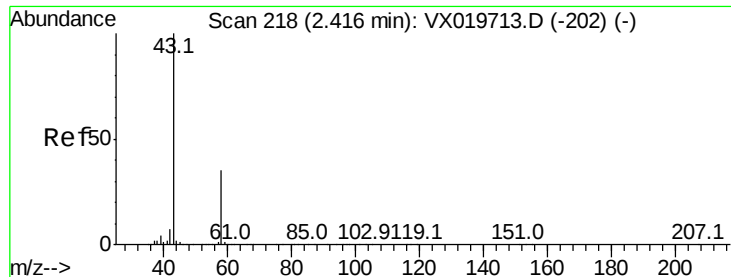


#13

Acrolein
 Concen: 0.717 ug/l
 RT: 2.26 min Scan# 193
 Delta R.T. -0.01 min
 Lab File: VX019784.D
 Acq: 09 Dec 2020 17:21

Tgt Ion: 56 Resp: 353
 Ion Ratio Lower Upper
 56 100
 55 0.0 56.4 84.6#





#16

Acetone

Concen: 15.995 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX019784.D

Acq: 09 Dec 2020 17:21

Instrument :

MSVOA_X

ClientSampleId :

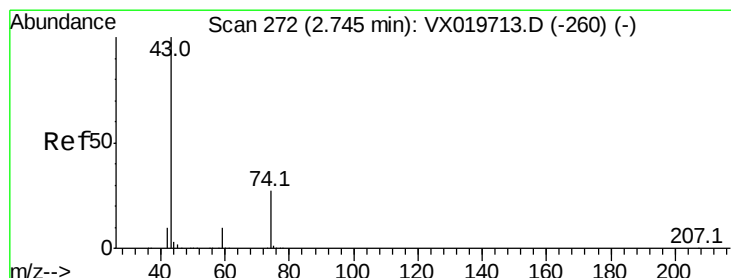
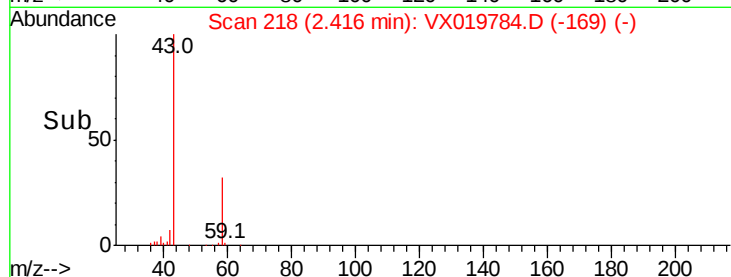
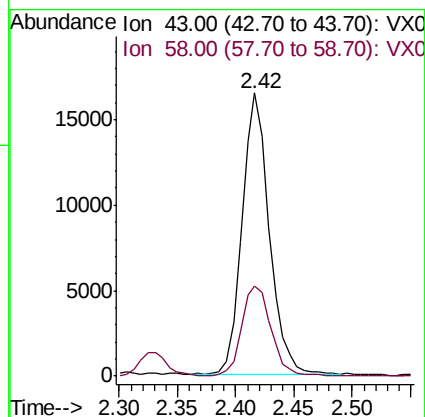
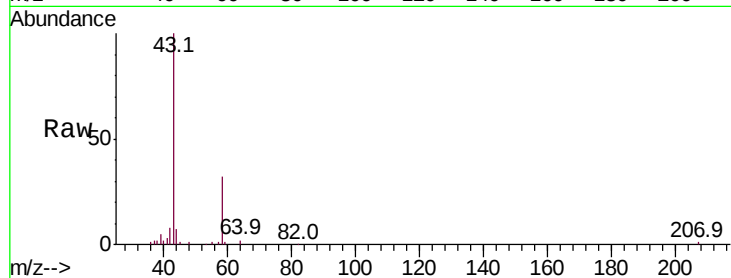
5S1-C-BOTTOM

Tot Ion: 43 Resp: 26817

Ion Ratio Lower Upper

43 100

58 32.0 27.8 41.8



#18

Methyl Acetate

Concen: 1.253 ug/l

RT: 2.75 min Scan# 272

Delta R.T. 0.00 min

Lab File: VX019784.D

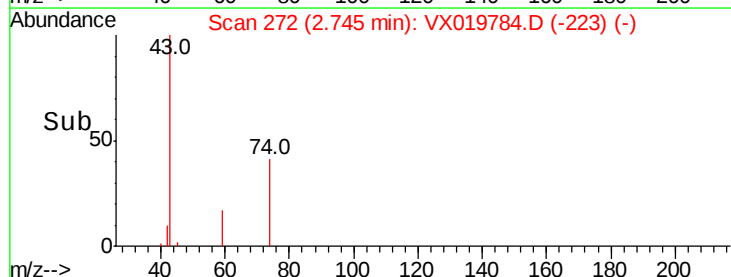
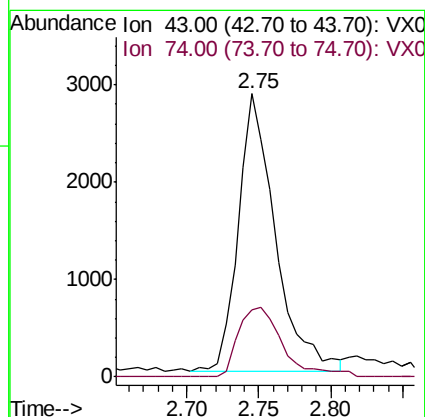
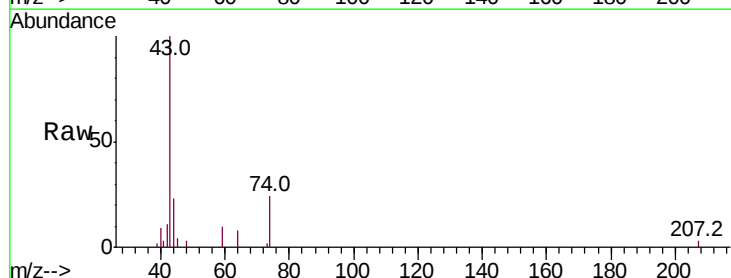
Acq: 09 Dec 2020 17:21

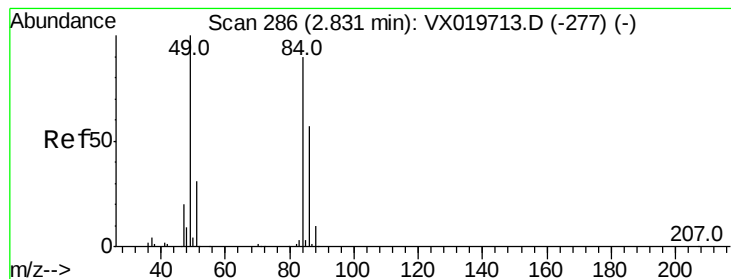
Tgt Ion: 43 Resp: 5142

Ion Ratio Lower Upper

43 100

74 29.9 21.9 32.9





#20

Methvlene Chloride

Concen: 4.613 ug/l

RT: 2.83 min Scan# 286

Delta R.T. 0.00 min

Lab File: VX019784.D

Acq: 09 Dec 2020 17:21

Instrument :

MSVOA_X

ClientSampleId :

5S1-C-BOTTOM

Tot Ion: 84 Resp: 22599

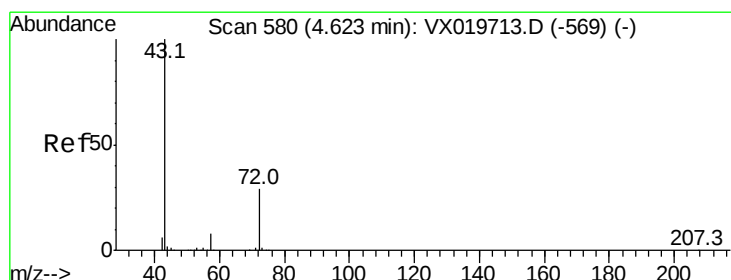
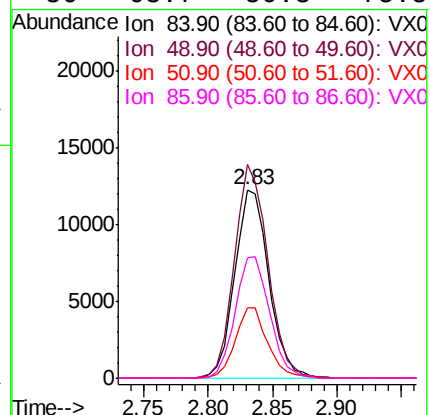
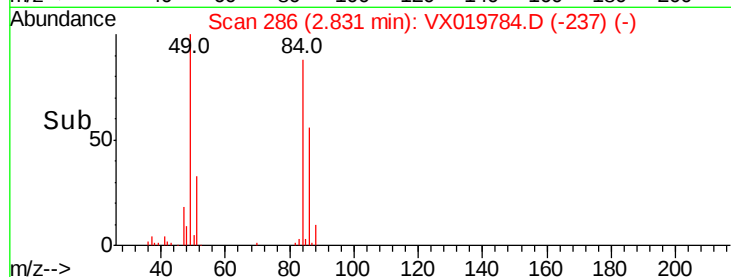
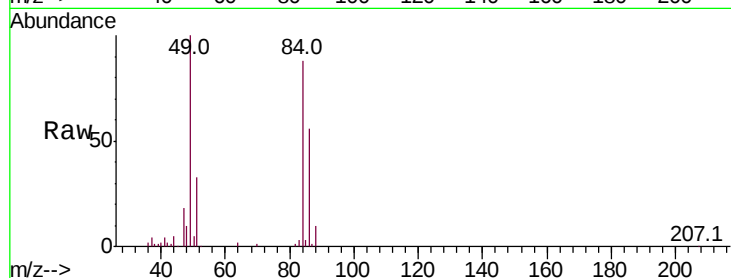
Ion Ratio Lower Upper

84 100

49 113.3 88.6 132.8

51 37.2 27.0 40.6

86 63.7 50.3 75.5



#25

2-Butanone

Concen: 1.987 ug/l

RT: 4.64 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX019784.D

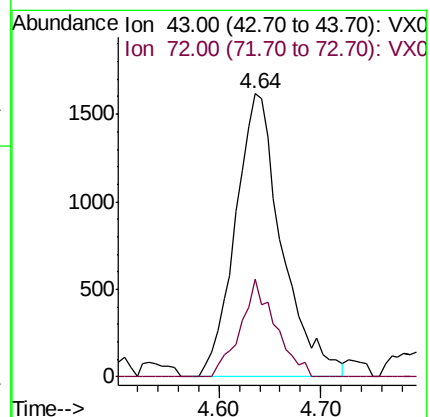
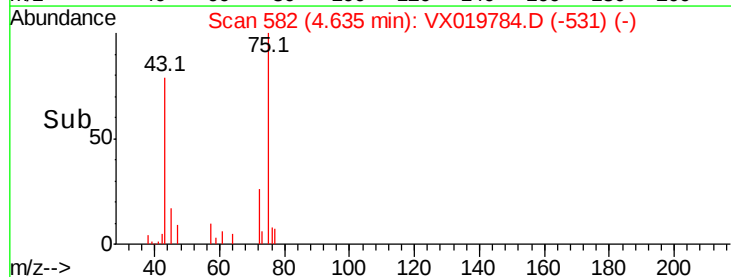
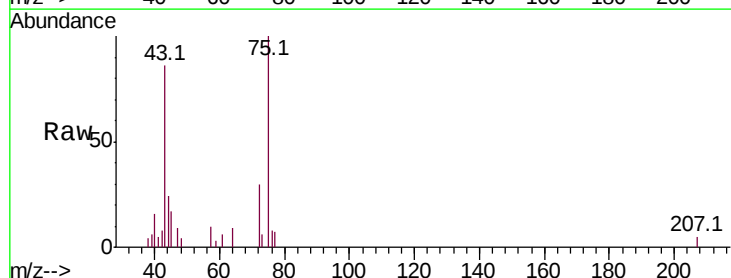
Acq: 09 Dec 2020 17:21

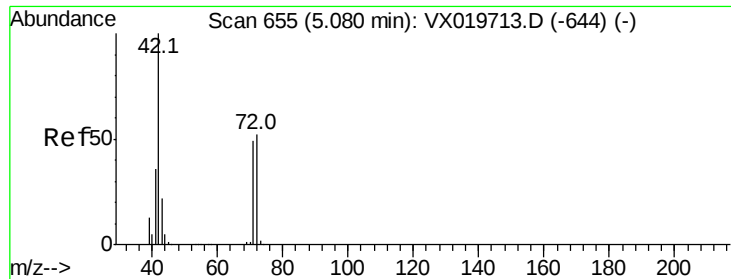
Tgt Ion: 43 Resp: 5119

Ion Ratio Lower Upper

43 100

72 34.7 23.7 35.5

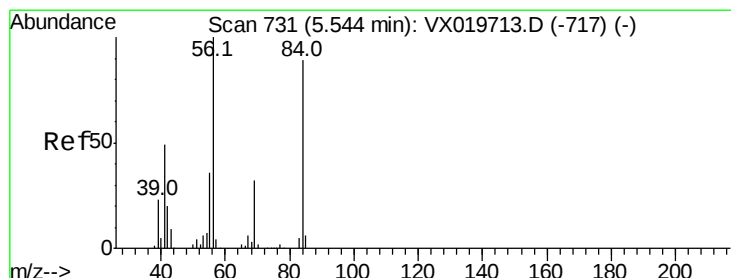
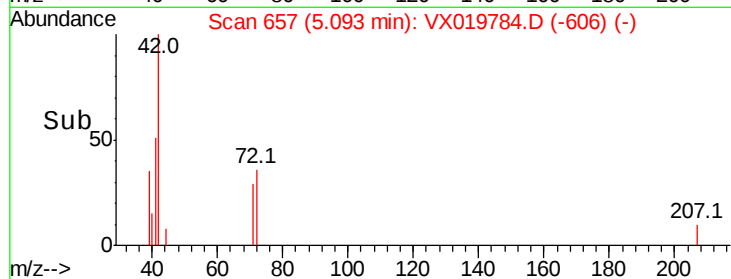
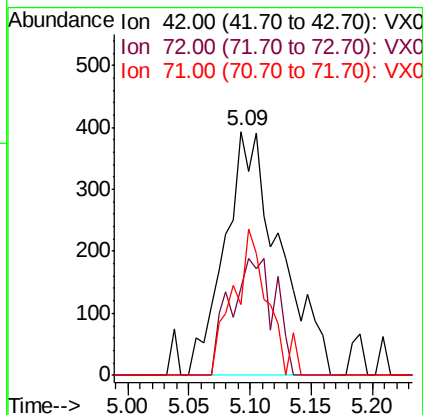
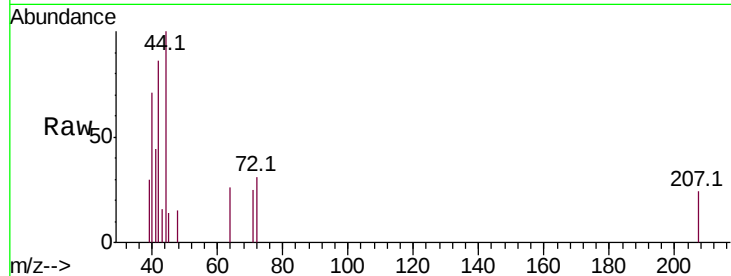




#29
Tetrahydrofuran
Concen: 0.744 ug/l
RT: 5.09 min Scan# 657
Delta R.T. 0.01 min
Lab File: VX019784.D
Acq: 09 Dec 2020 17:21

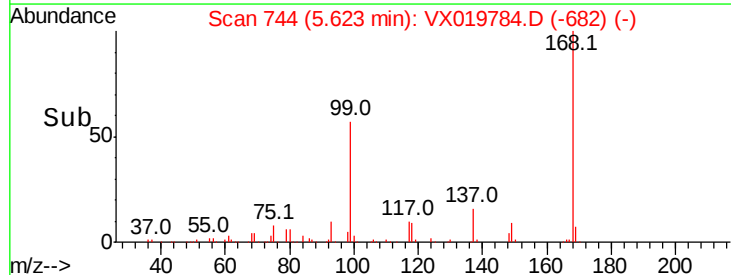
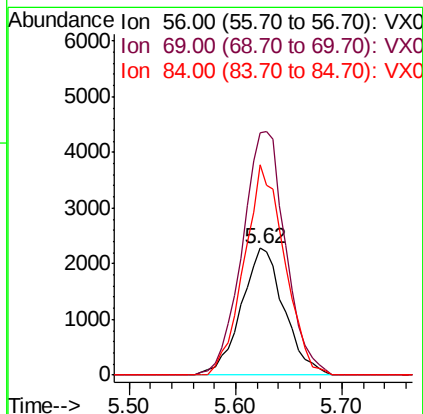
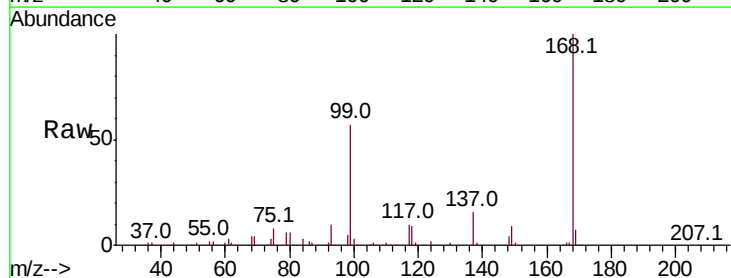
Instrument :
MSVOA_X
ClientSampleId :
5S1-C-BOTTOM

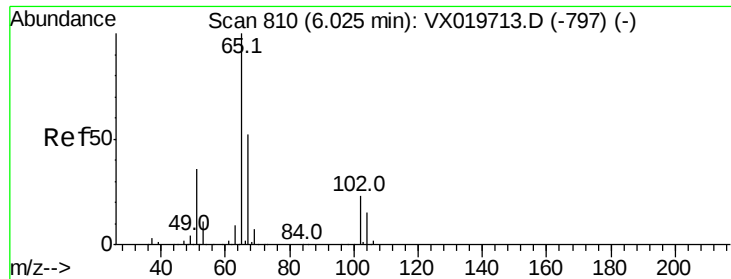
Tot Ion	Ratio	Lower	Upper
42	100		
72	38.8	41.7	62.5#
71	37.6	38.4	57.6#



#31
Cyclohexane
Concen: 1.162 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.08 min
Lab File: VX019784.D
Acq: 09 Dec 2020 17:21

Tgt Ion	Ratio	Lower	Upper
56	100		
69	191.7	25.3	37.9#
84	165.8	71.4	107.0#





#33

1,2-Dichloroethane-d4

Concen: 46.532 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.01 min

Lab File: VX019784.D

Acq: 09 Dec 2020 17:21

Instrument :

MSVOA_X

ClientSampleId :

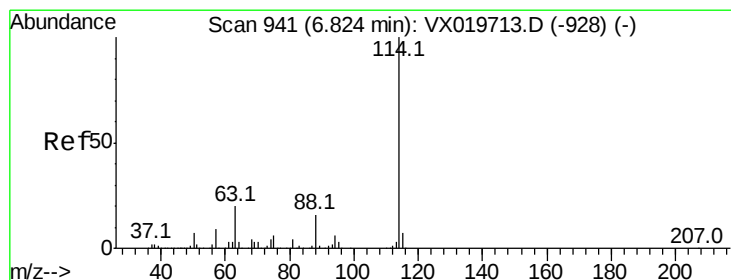
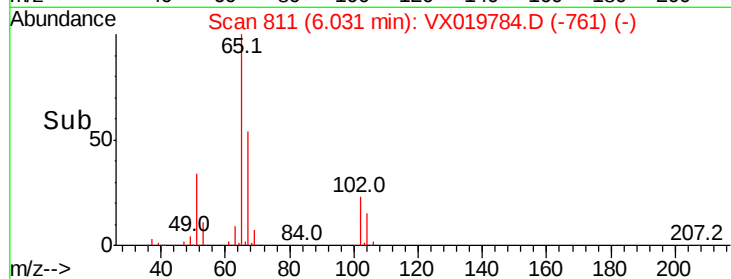
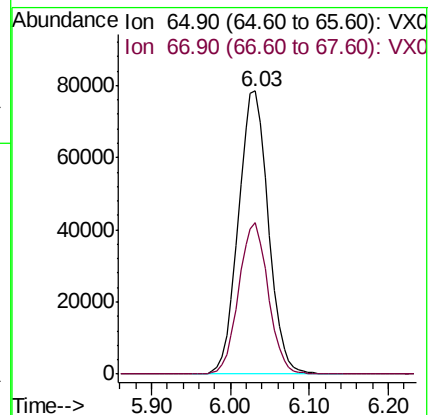
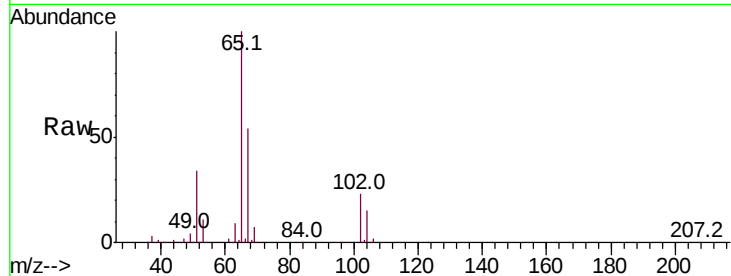
5S1-C-BOTTOM

Tot Ion: 65 Resp: 207551

Ion Ratio Lower Upper

65 100

67 52.7 0.0 105.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.01 min

Lab File: VX019784.D

Acq: 09 Dec 2020 17:21

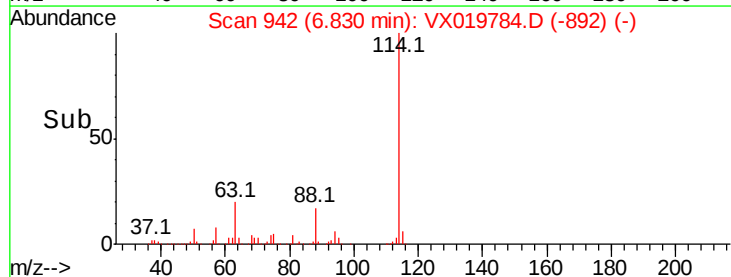
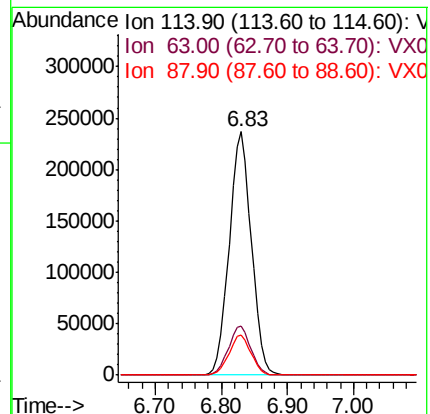
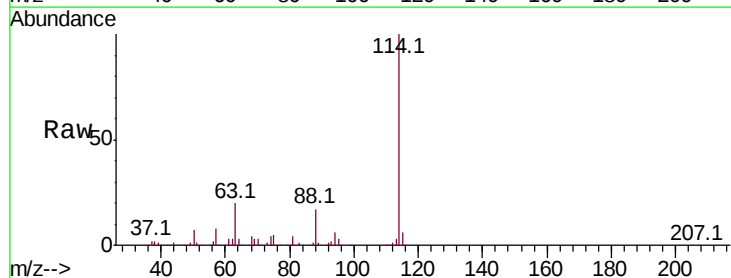
Tgt Ion: 114 Resp: 548084

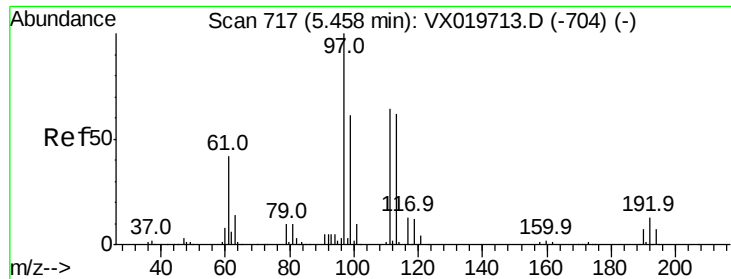
Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.8

88 16.6 0.0 32.8





#35

Dibromofluoromethane

Concen: 47.750 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019784.D

Acq: 09 Dec 2020 17:21

Instrument :

MSVOA_X

ClientSampleId :

5S1-C-BOTTOM

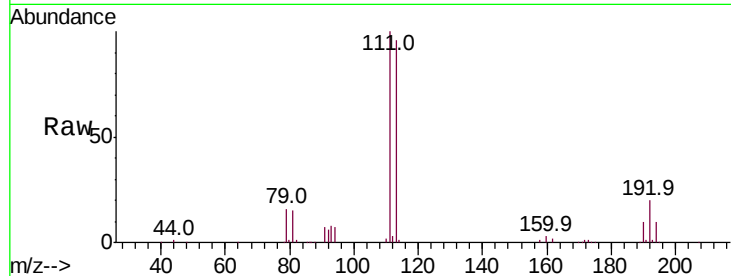
Tot Ion:113 Resp: 169140

Ion Ratio Lower Upper

113 100

111 102.9 81.9 122.9

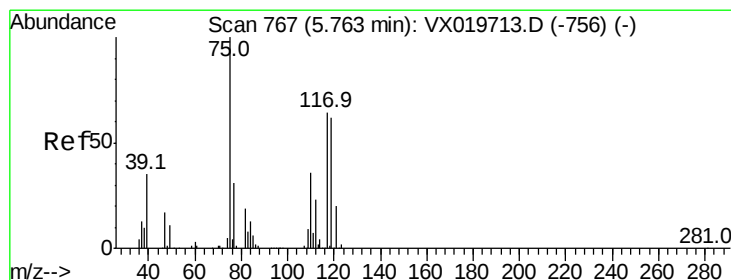
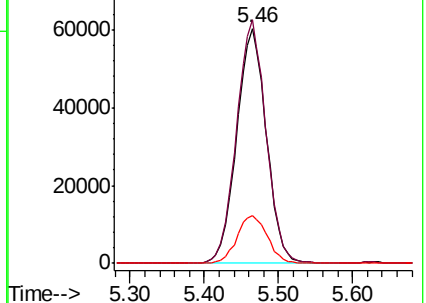
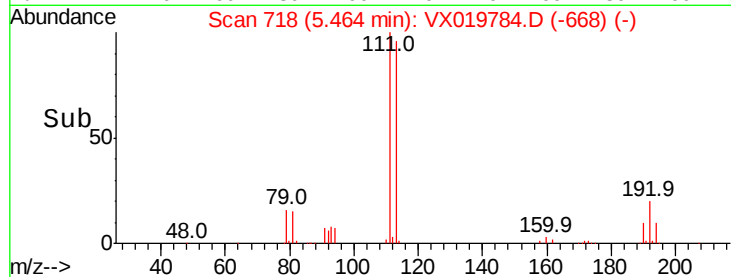
192 20.8 16.7 25.1



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: 5.031 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX019784.D

Acq: 09 Dec 2020 17:21

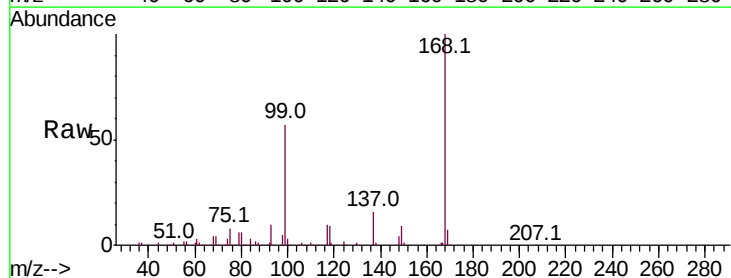
Tgt Ion: 75 Resp: 24917

Ion Ratio Lower Upper

75 100

110 9.1 18.1 54.4#

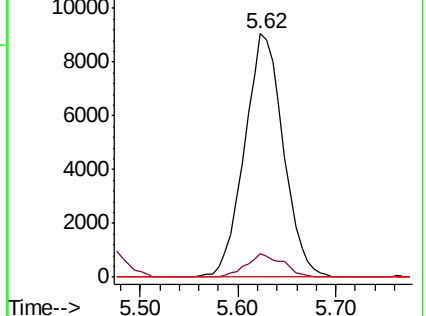
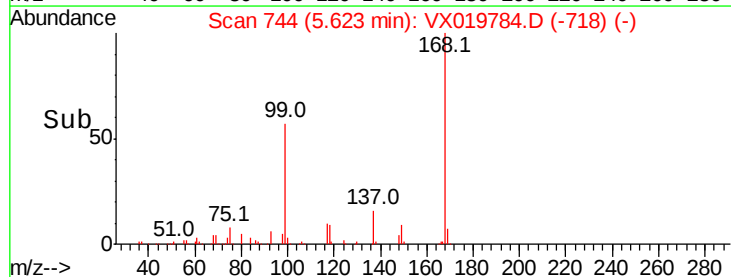
77 0.0 25.3 37.9#

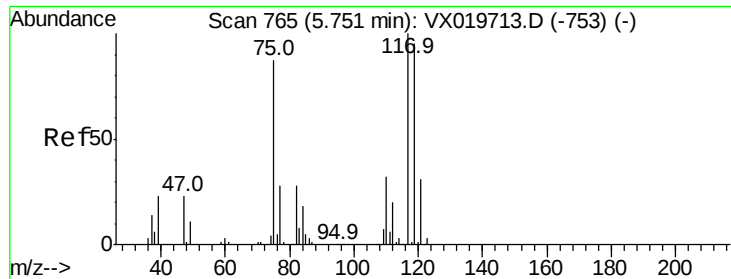


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

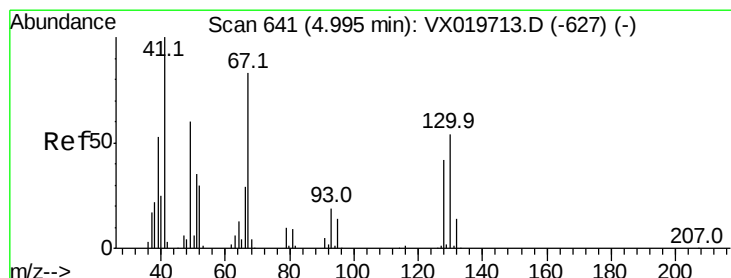
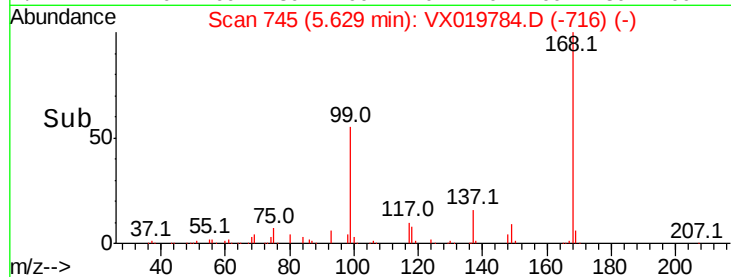
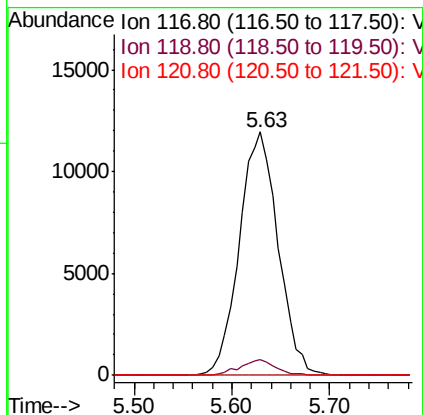
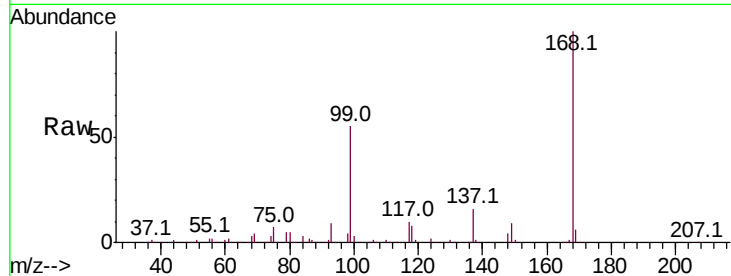




#38
Carbon Tetrachloride
Concen: 6.767 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.12 min
Lab File: VX019784.D
Acq: 09 Dec 2020 17:21

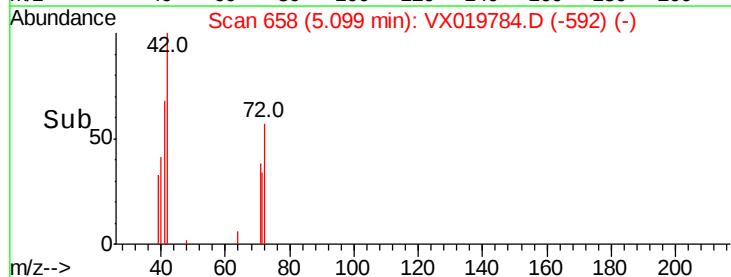
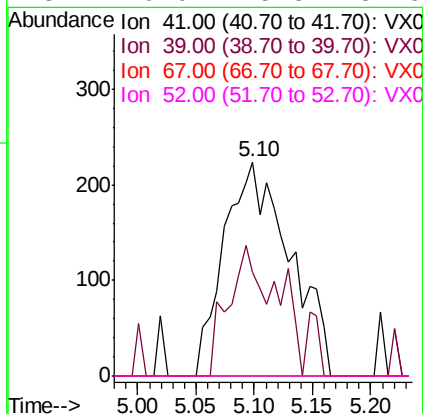
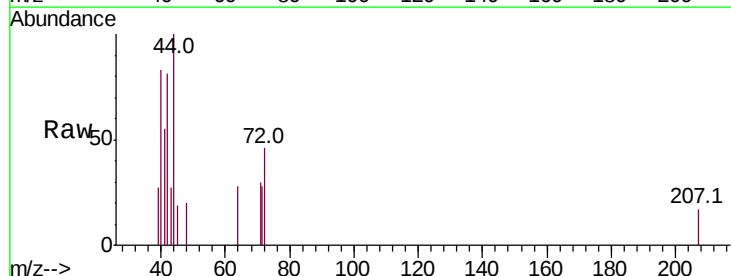
Instrument :
MSVOA_X
ClientSampleId :
5S1-C-BOTTOM

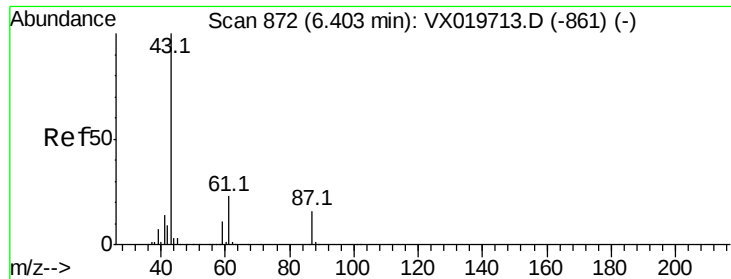
Tot Ion:117 Resp: 32820
Ion Ratio Lower Upper
117 100
119 6.6 76.2 114.2#
121 0.0 24.8 37.2#



#41
Methacrylonitrile
Concen: 0.319 ug/l
RT: 5.10 min Scan# 658
Delta R.T. 0.10 min
Lab File: VX019784.D
Acq: 09 Dec 2020 17:21

Tgt Ion: 41 Resp: 875
Ion Ratio Lower Upper
41 100
39 30.7 42.5 63.7#
67 0.0 65.0 97.6#
52 0.0 25.3 37.9#





#43

Isopropyl Acetate

Concen: 2.905 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.01 min

Lab File: VX019784.D

Acq: 09 Dec 2020 17:21

Instrument :

MSVOA_X

ClientSampleId :

5S1-C-BOTTOM

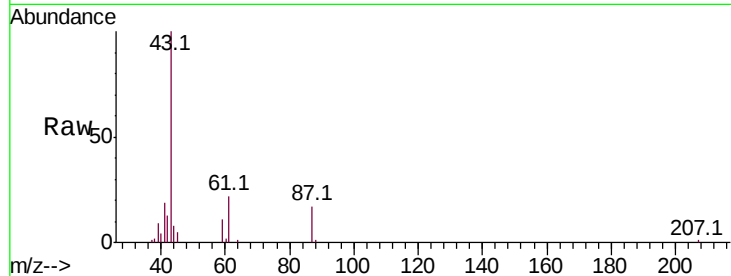
Tot Ion: 43 Resp: 23620

Ion Ratio Lower Upper

43 100

61 22.1 18.2 27.4

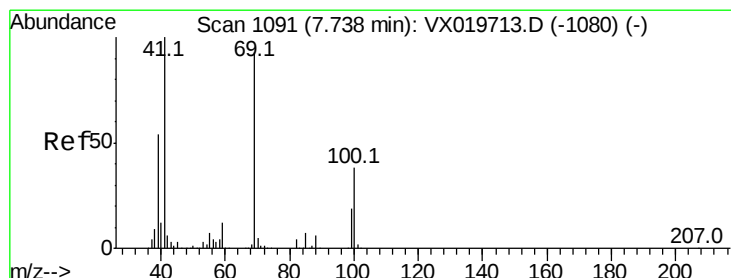
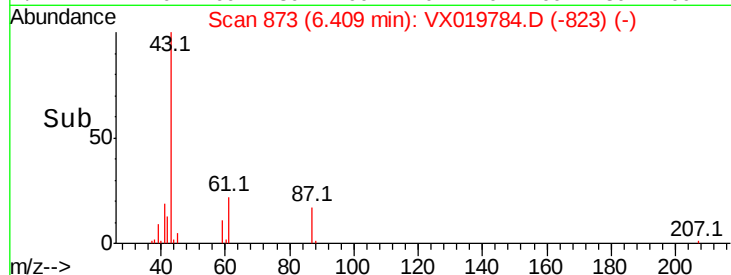
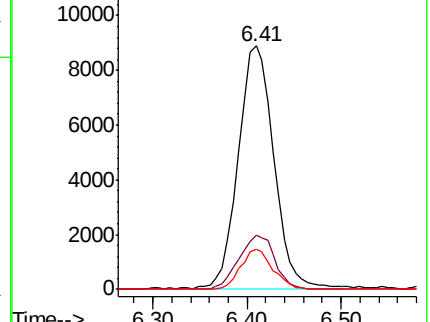
87 14.7 12.5 18.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 1.639 ug/l

RT: 7.65 min Scan# 1076

Delta R.T. -0.09 min

Lab File: VX019784.D

Acq: 09 Dec 2020 17:21

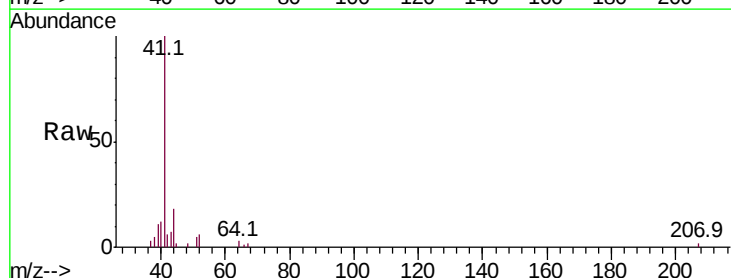
Tgt Ion: 41 Resp: 6555

Ion Ratio Lower Upper

41 100

69 0.0 76.0 114.0#

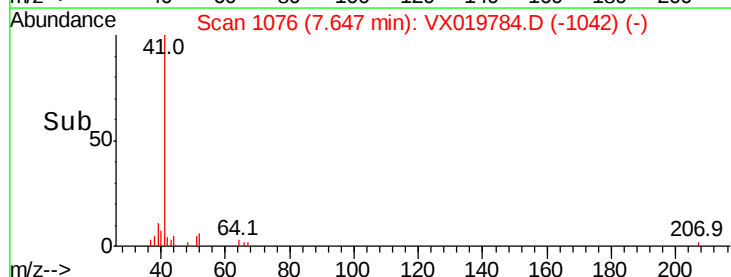
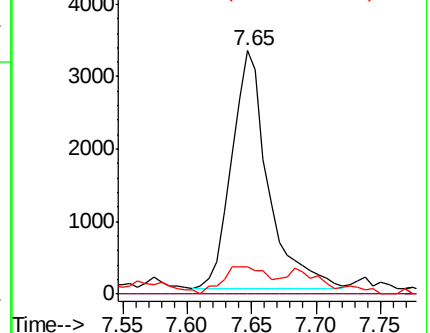
39 0.0 44.6 67.0#

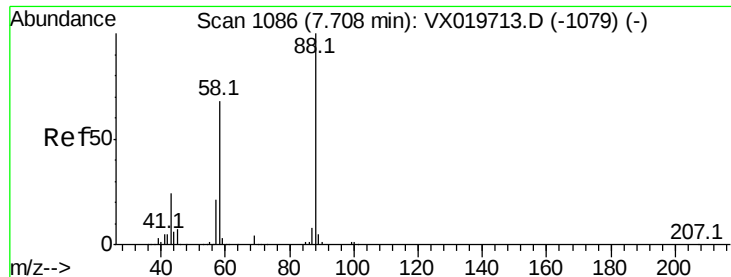


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 2.096 ug/l

RT: 7.84 min Scan# 1108

Delta R.T. 0.13 min

Lab File: VX019784.D

Acq: 09 Dec 2020 17:21

Instrument :

MSVOA_X

ClientSampleId :

5S1-C-BOTTOM

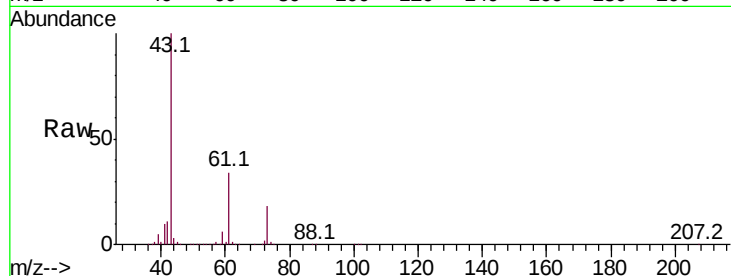
Tot Ion: 88 Resp: 203

Ion Ratio Lower Upper

88 100

43 587860.1 23.2 34.8#

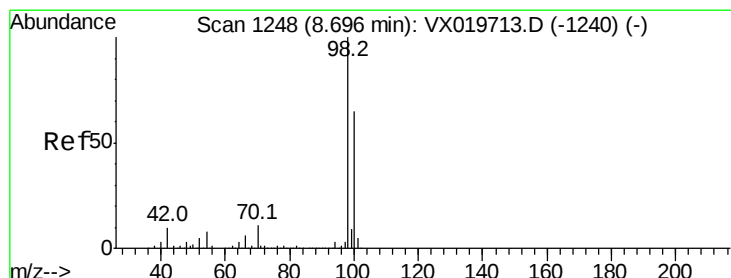
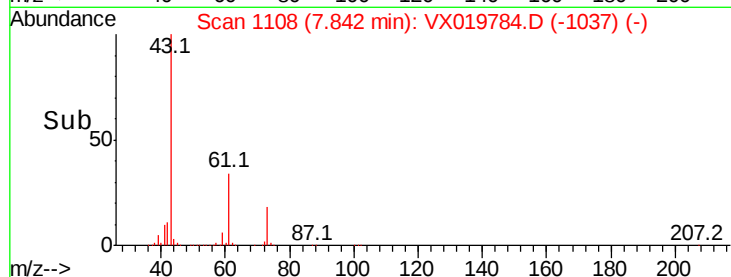
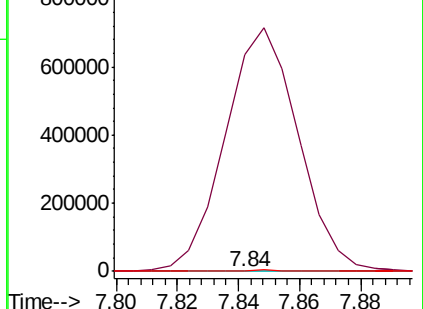
58 2910.8 55.0 82.4#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 49.571 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019784.D

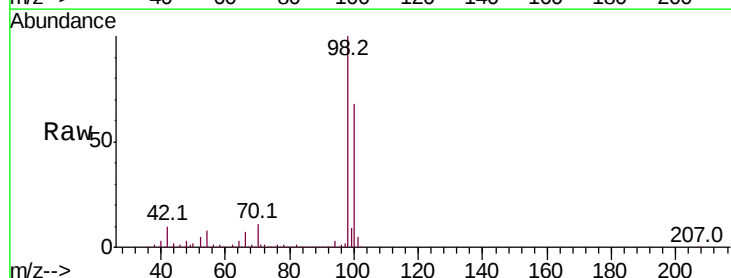
Acq: 09 Dec 2020 17:21

Tgt Ion: 98 Resp: 670354

Ion Ratio Lower Upper

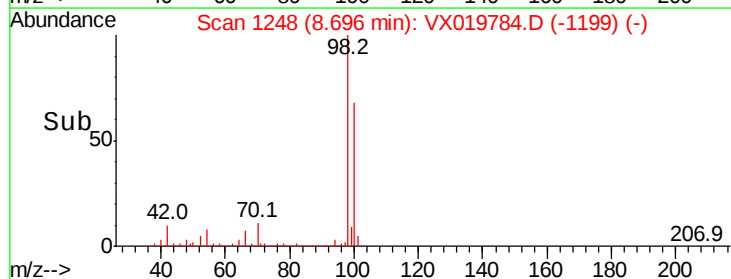
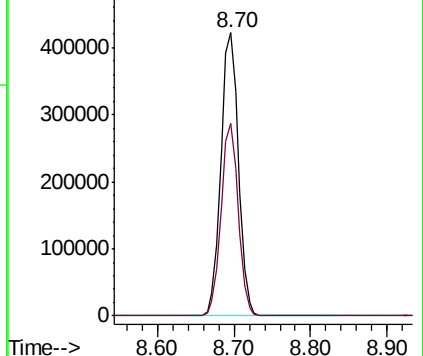
98 100

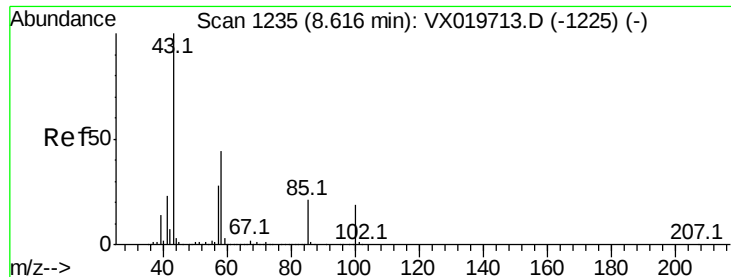
100 66.3 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 17.233 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.02 min

Lab File: VX019784.D

Acq: 09 Dec 2020 17:21

Instrument :

MSVOA_X

ClientSampleId :

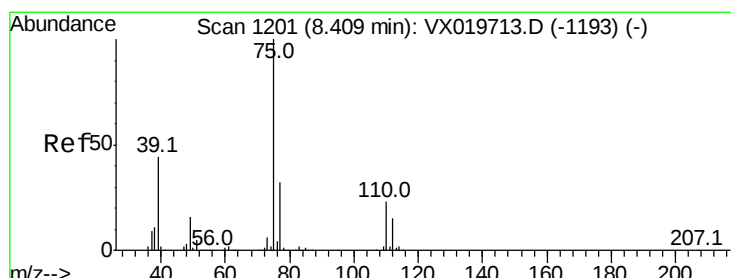
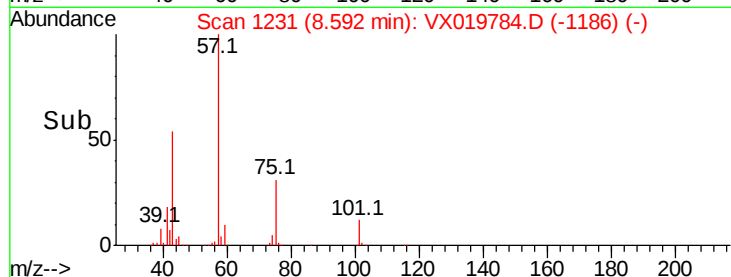
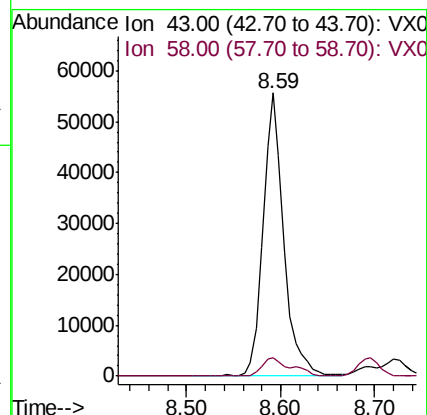
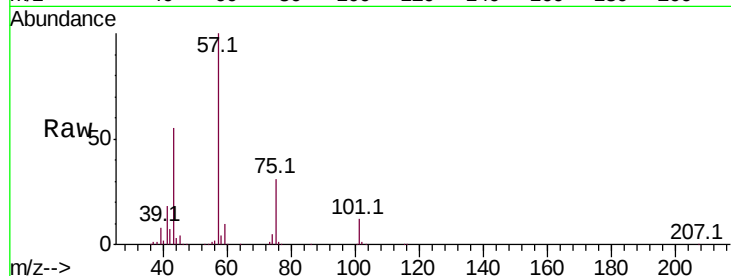
5S1-C-BOTTOM

Tot Ion: 43 Resp: 85539

Ion Ratio Lower Upper

43 100

58 9.5 35.4 53.0#



#54

cis-1,3-Dichloropropene

Concen: 7.420 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX019784.D

Acq: 09 Dec 2020 17:21

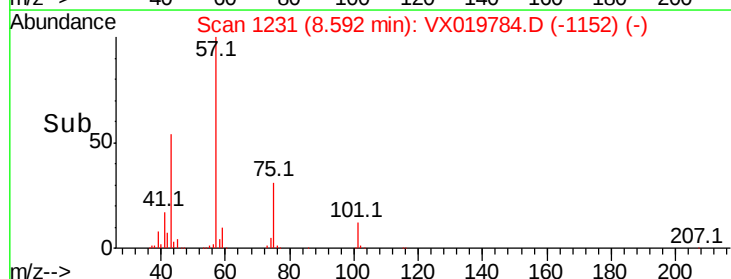
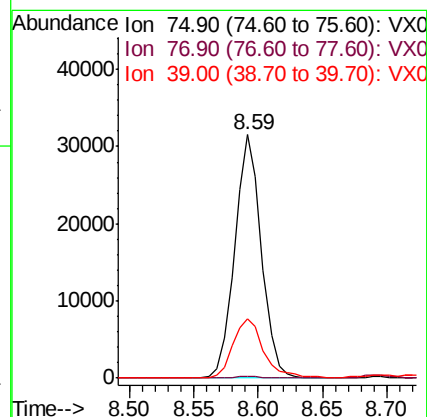
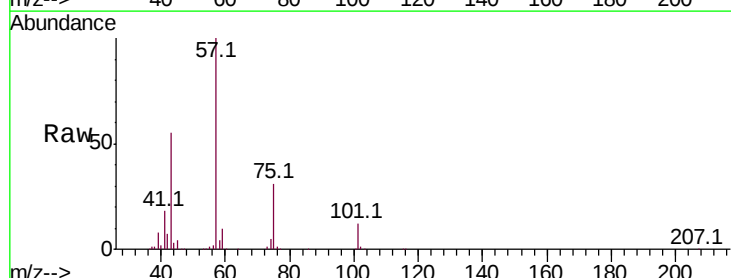
Tgt Ion: 75 Resp: 45327

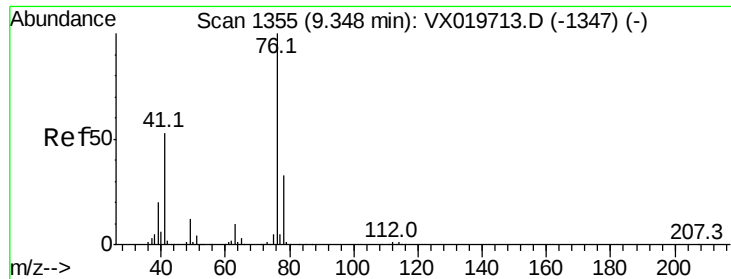
Ion Ratio Lower Upper

75 100

77 0.5 25.7 38.5#

39 24.2 35.1 52.7#





#57

1,3-Dichloropropane

Concen: 3.848 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.18 min

Lab File: VX019784.D

Acq: 09 Dec 2020 17:21

Instrument :

MSVOA_X

ClientSampleId :

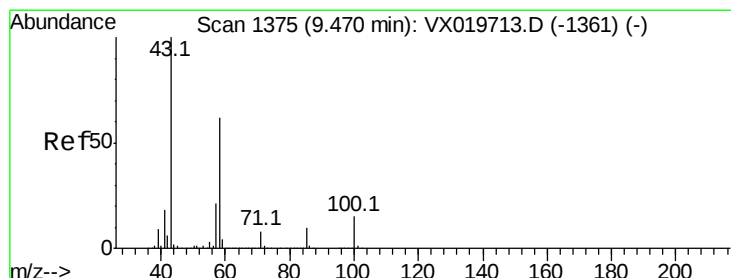
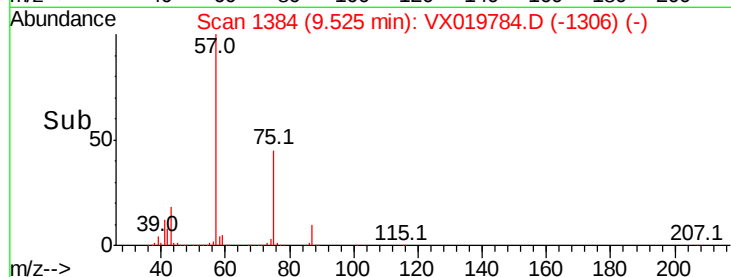
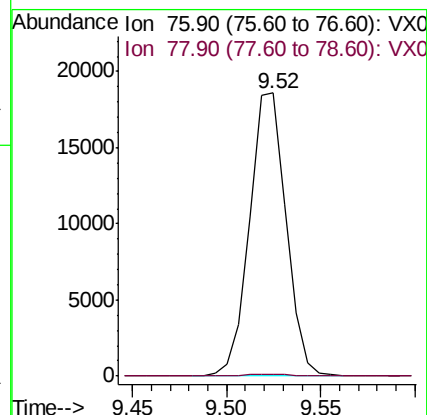
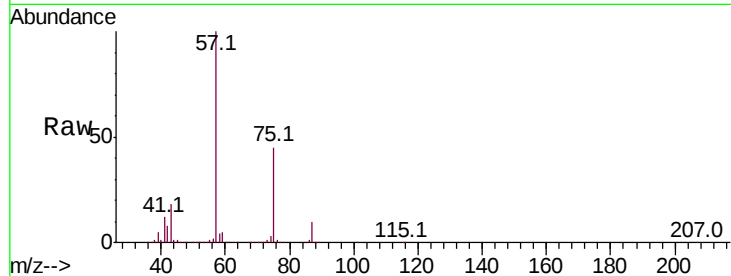
5S1-C-BOTTOM

Tot Ion: 76 Resp: 25055

Ion Ratio Lower Upper

76 100

78 0.7 26.2 39.2#



#59

2-Hexanone

Concen: 79.065 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX019784.D

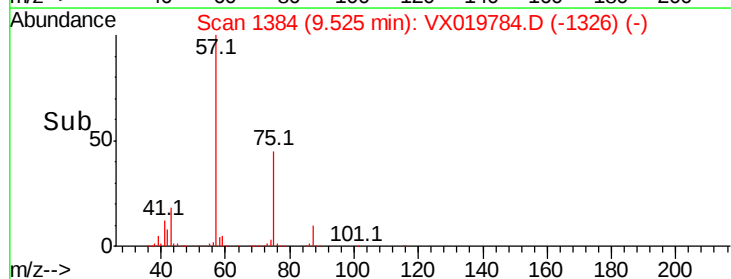
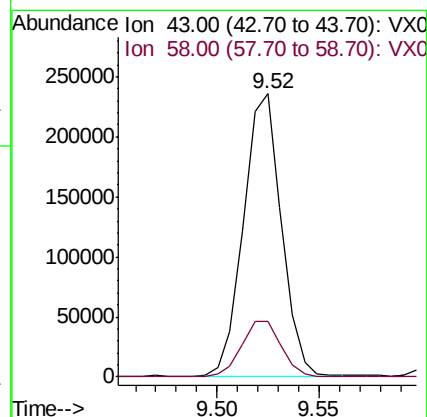
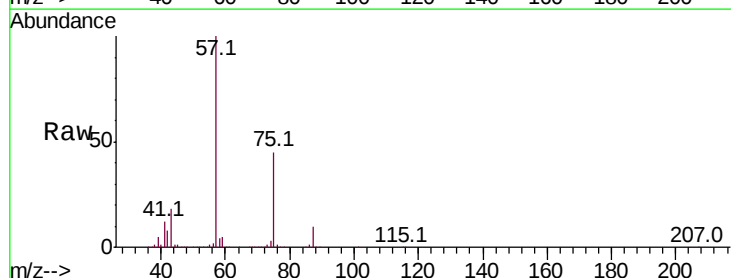
Acq: 09 Dec 2020 17:21

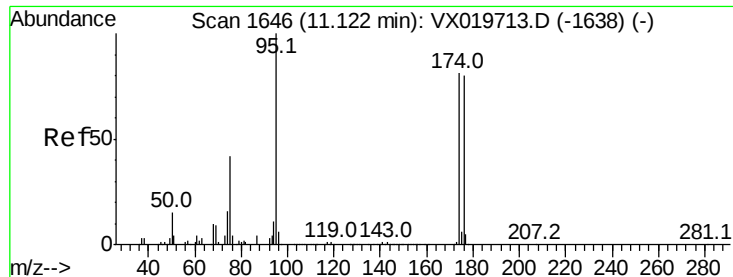
Tgt Ion: 43 Resp: 304196

Ion Ratio Lower Upper

43 100

58 20.6 30.9 92.8#





#62

4-Bromofluorobenzene

Concen: 44.554 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX019784.D

Acq: 09 Dec 2020 17:21

Instrument :

MSVOA_X

ClientSampleId :

5S1-C-BOTTOM

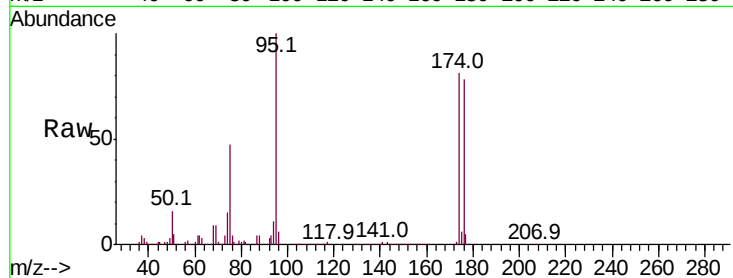
Tot Ion: 95 Resp: 229323

Ion Ratio Lower Upper

95 100

174 76.9 0.0 154.6

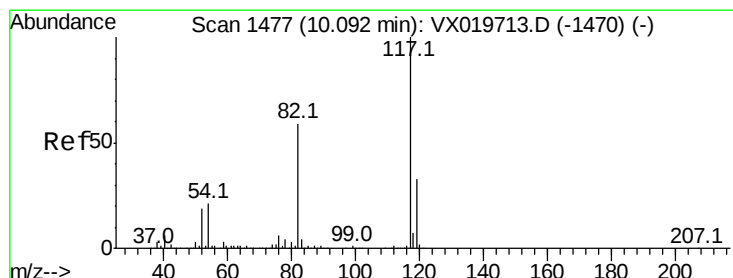
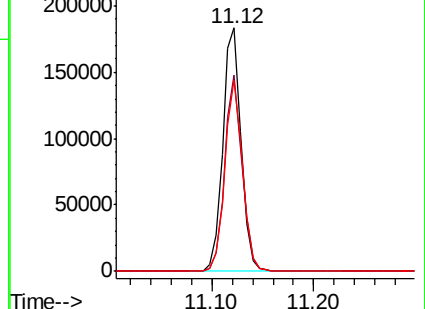
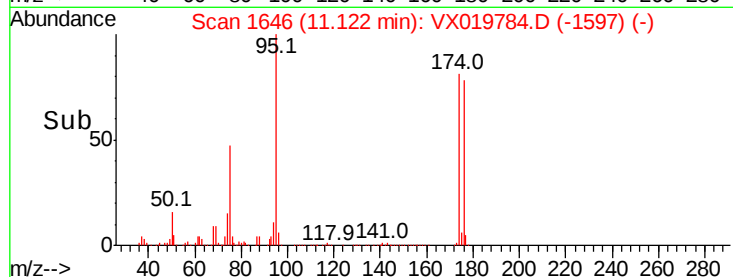
176 75.6 0.0 155.8



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: 10.10 min Scan# 1478

Delta R.T. 0.01 min

Lab File: VX019784.D

Acq: 09 Dec 2020 17:21

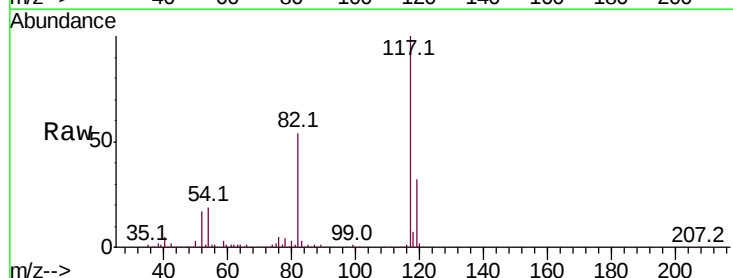
Tgt Ion: 117 Resp: 496877

Ion Ratio Lower Upper

117 100

82 53.9 47.4 71.2

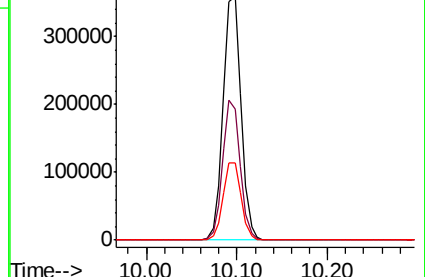
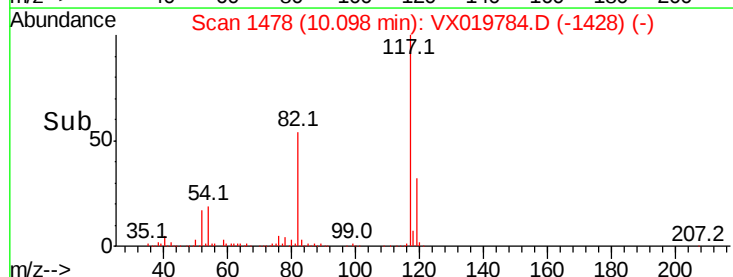
119 31.8 26.6 39.8

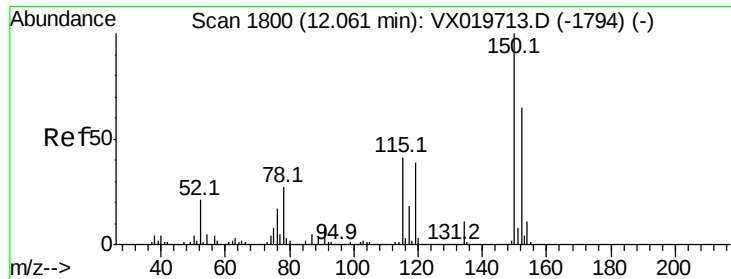


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX019784.D

Acq: 09 Dec 2020 17:21

Instrument :

MSVOA_X

ClientSampleId :

5S1-C-BOTTOM

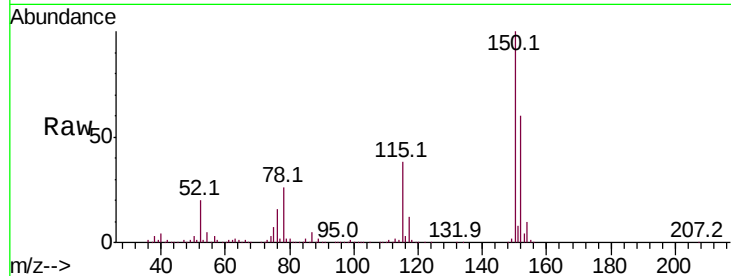
Tot Ion:152 Resp: 207729

Ion Ratio Lower Upper

152 100

115 60.9 41.1 123.3

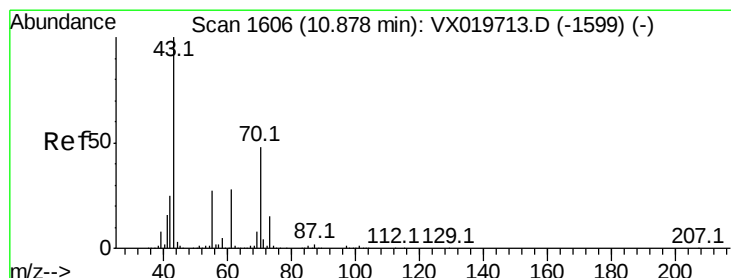
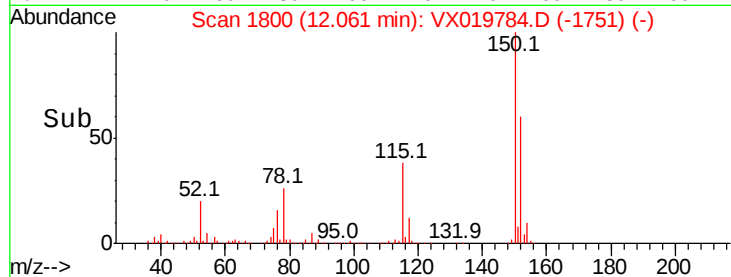
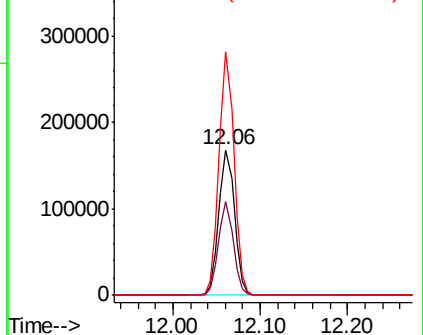
150 161.0 0.0 349.0



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



#74

N-ethyl acetate

Concen: 0.290 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX019784.D

Acq: 09 Dec 2020 17:21

Tgt Ion: 43 Resp: 1650

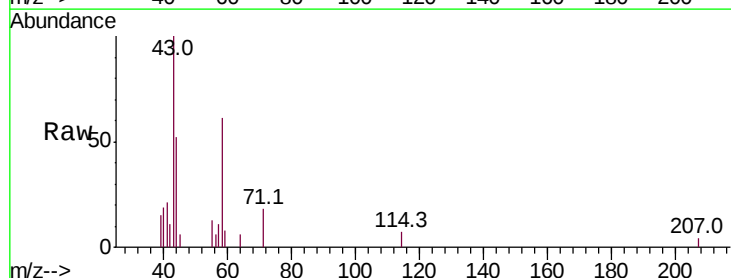
Ion Ratio Lower Upper

43 100

70 0.0 39.0 58.6#

55 15.8 21.5 32.3#

61 0.0 22.1 33.1#

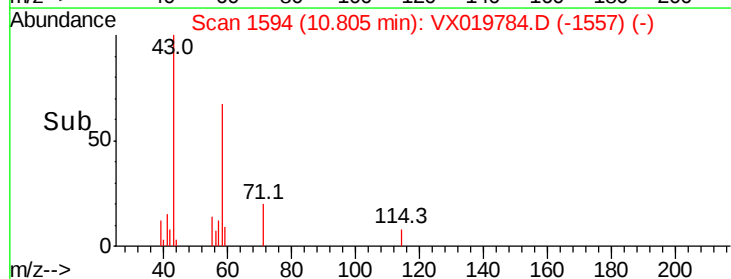
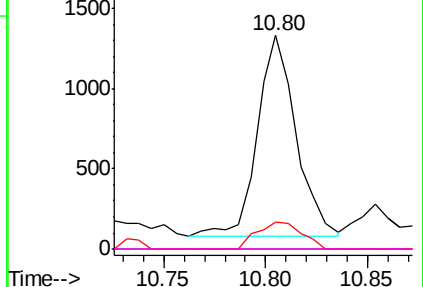


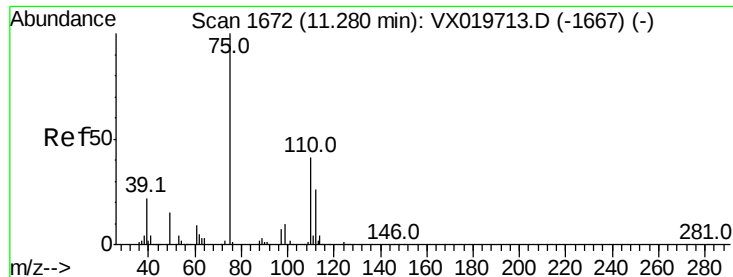
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 23.713 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019784.D

Acq: 09 Dec 2020 17:21

Instrument :

MSVOA_X

ClientSampleId :

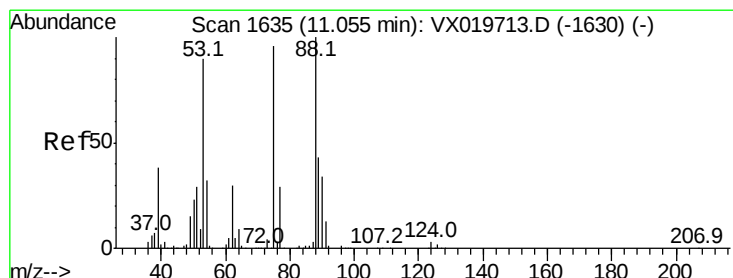
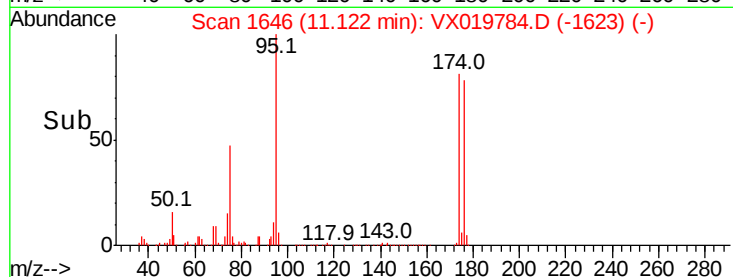
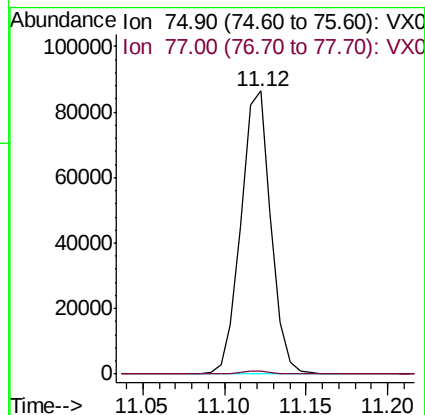
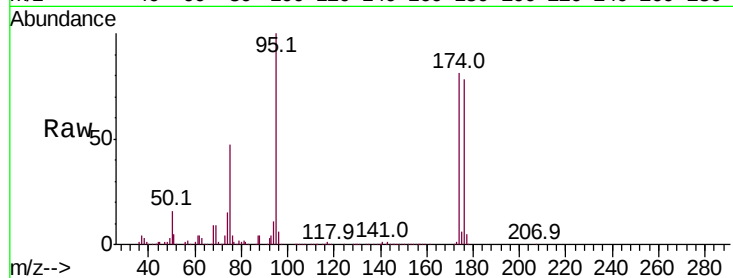
5S1-C-BOTTOM

Tot Ion: 75 Resp: 110479

Ion Ratio Lower Upper

75 100

77 1.2 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 68.550 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019784.D

Acq: 09 Dec 2020 17:21

Tgt Ion: 75 Resp: 110479

Ion Ratio Lower Upper

75 100

53 0.0 74.5 111.7#

89 0.0 37.9 56.9#

