

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102320\
 Data File : VX019079.D
 Acq On : 23 Oct 2020 16:31
 Operator : JC/SP
 Sample : L4489-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 201021001-09-TRIP-BLANK

Quant Time: Oct 26 04:16:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X102320W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Oct 26 03:21:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	47061	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.82	114	261300	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	232590	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	94969	30.30	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.00%
60) 4-Bromofluorobenzene	11.12	95	104752	30.01	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	100.03%
63) Toluene-d8	8.70	98	310764	30.26	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.87%

Target Compounds

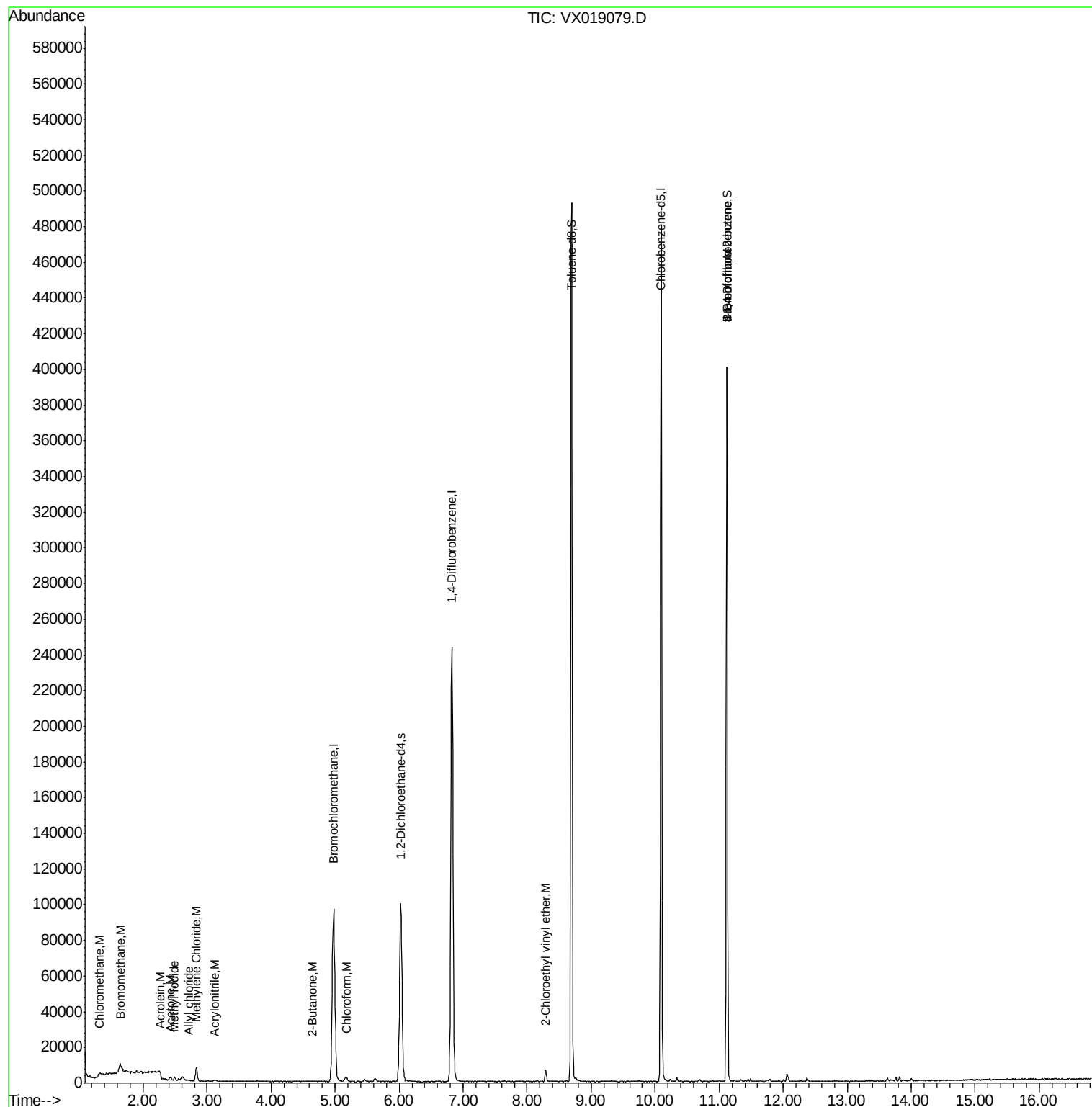
					Ovalue
3) Chloromethane	1.31	50	583	0.273 ug/l	96
5) Bromomethane	1.64	94	1456	0.751 ug/l	96
11) Methyl Iodide	2.50	142	1874	7.944 ug/l	98
13) Acrolein	2.28	56	387	1.792 ug/l	96
14) Acrylonitrile	3.12	53	250	0.227 ug/l	80
15) Acetone	2.43	58	773	2.449 ug/l	78
17) Allyl chloride	2.71	41	698	0.236 ug/l #	33
18) Methylene Chloride	2.83	84	3810	1.410 ug/l #	95
25) Chloroform	5.18	83	1232	0.253 ug/l	96
30) 2-Butanone	4.65	43	344	0.234 ug/l #	47
55) 2-Chloroethyl vinyl ether	8.29	63	2691	1.219 ug/l	92
56) Bromoform	11.12	173	705	0.320 ug/l #	1
77) t-1,4-Dichloro-2-butene	11.12	75	52504	38.853 ug/l #	16

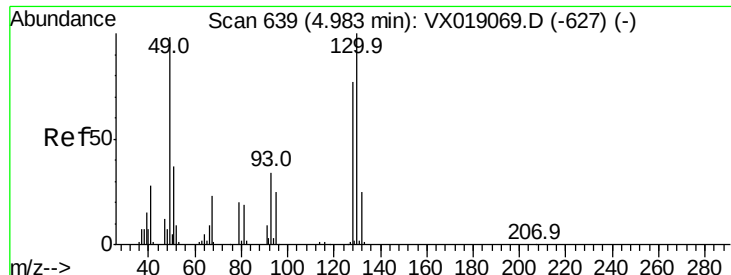
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
201021001-09-TRIP-BLANK

Quant Time: Oct 26 04:16:18 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X102320W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Oct 26 03:21:29 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.98 min Scan# 639

Delta R.T. 0.00 min

Lab File: VX019079.D

Acq: 23 Oct 2020 16:31

Instrument :

MSVOA_X

ClientSampleId :

201021001-09-TRIP-BLANK

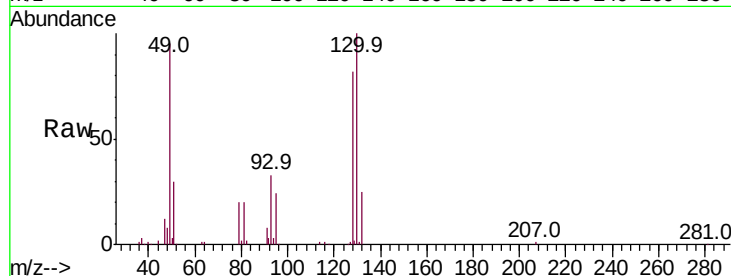
Tot Ion:128 Resp: 47061

Ion Ratio Lower Upper

128 100

49 127.2 0.0 318.8

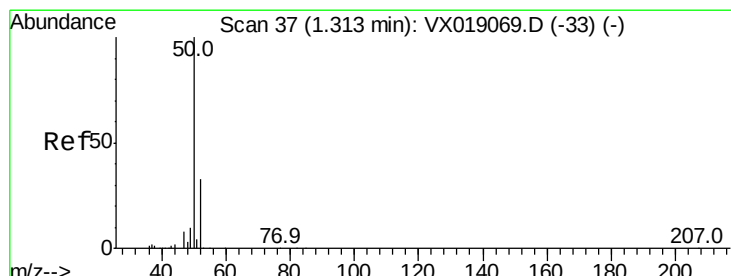
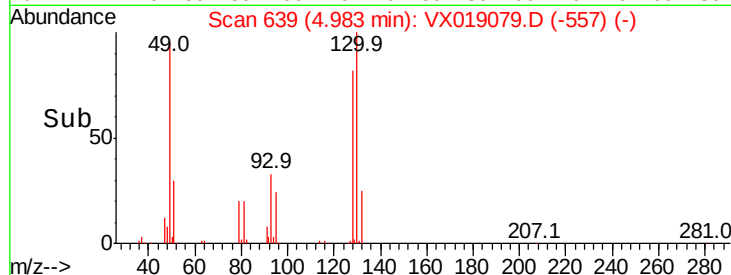
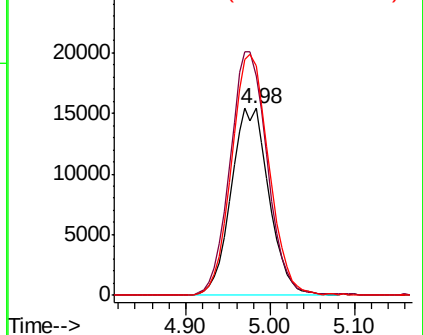
130 126.2 0.0 321.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.273 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX019079.D

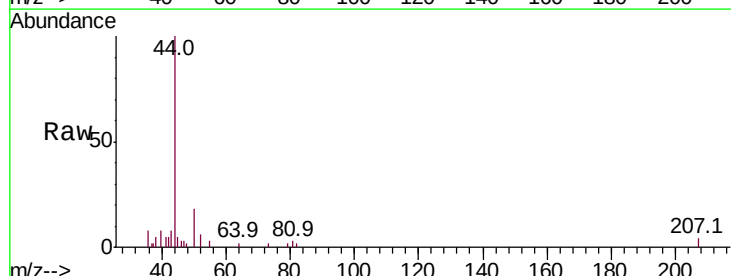
Acq: 23 Oct 2020 16:31

Tgt Ion: 50 Resp: 583

Ion Ratio Lower Upper

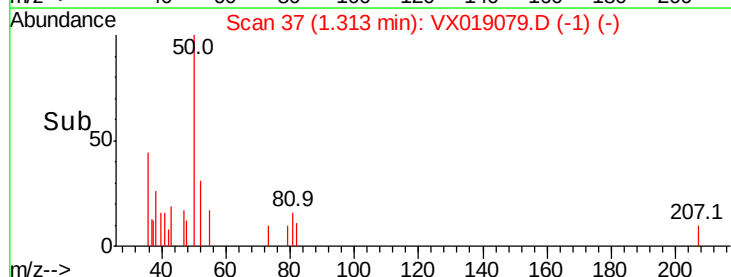
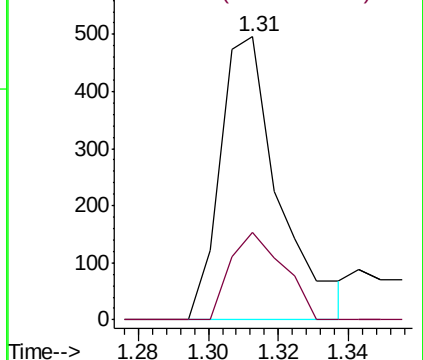
50 100

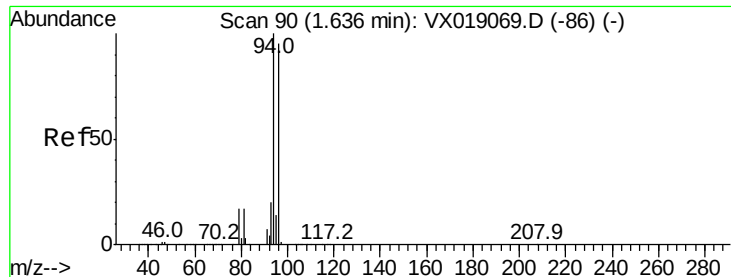
52 31.0 26.7 40.1



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#5

Bromomethane

Concen: 0.751 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.01 min

Lab File: VX019079.D

Acq: 23 Oct 2020 16:31

Instrument :

MSVOA_X

ClientSampleId :

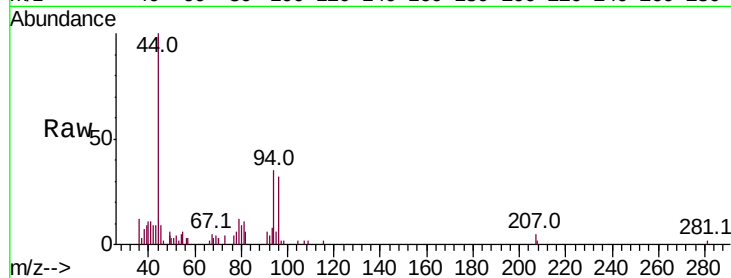
201021001-09-TRIP-BLANK

Tot Ion: 94 Resp: 1456

Ion Ratio Lower Upper

94 100

96 90.9 76.2 114.2



Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0

1.64

1000

800

600

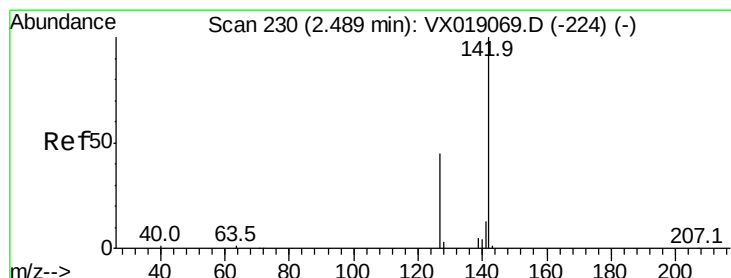
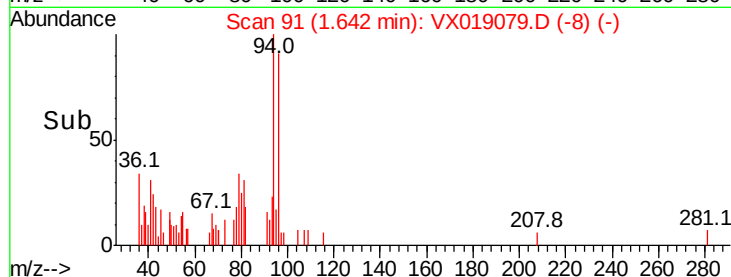
400

200

0

1.60 1.65 1.70

Time-->



#11

Methyl Iodide

Concen: 7.944 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX019079.D

Acq: 23 Oct 2020 16:31

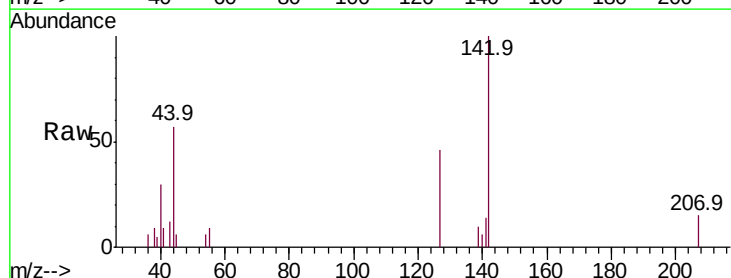
Tgt Ion: 142 Resp: 1874

Ion Ratio Lower Upper

142 100

127 46.2 22.6 67.7

141 13.7 6.3 19.1



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

1200

1000

800

600

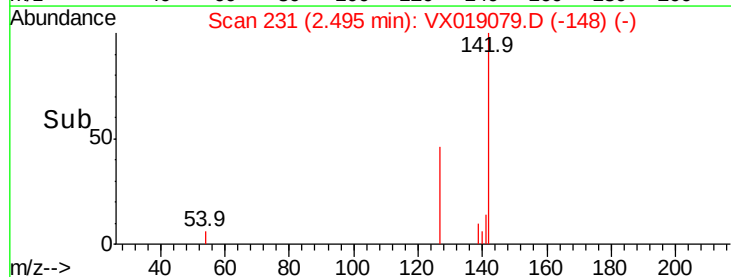
400

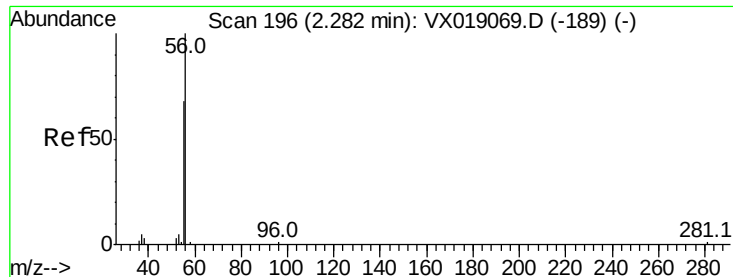
200

0

2.45 2.50 2.55

Time-->





#13

Acrolein

Concen: 1.792 ug/l

RT: 2.28 min Scan# 195

Delta R.T. -0.01 min

Lab File: VX019079.D

Acq: 23 Oct 2020 16:31

Instrument :

MSVOA_X

ClientSampleId :

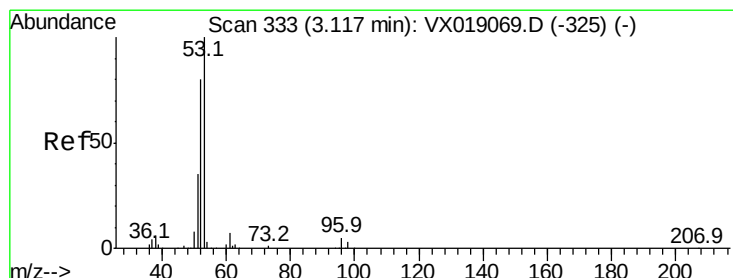
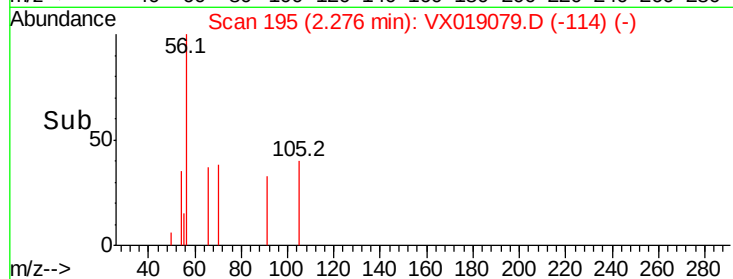
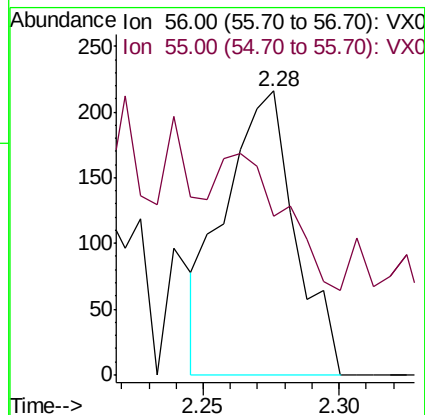
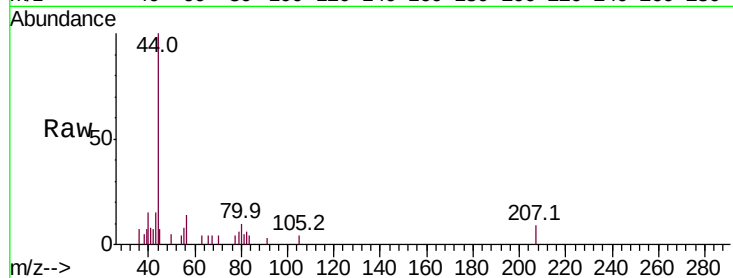
201021001-09-TRIP-BLANK

Tot Ion: 56 Resp: 387

Ion Ratio Lower Upper

56 100

55 69.8 58.2 87.2



#14

Acrylonitrile

Concen: 0.227 ug/l

RT: 3.12 min Scan# 333

Delta R.T. 0.00 min

Lab File: VX019079.D

Acq: 23 Oct 2020 16:31

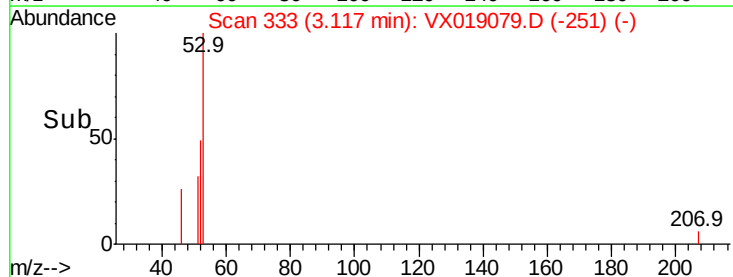
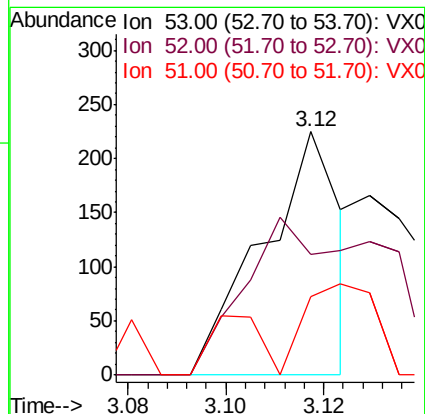
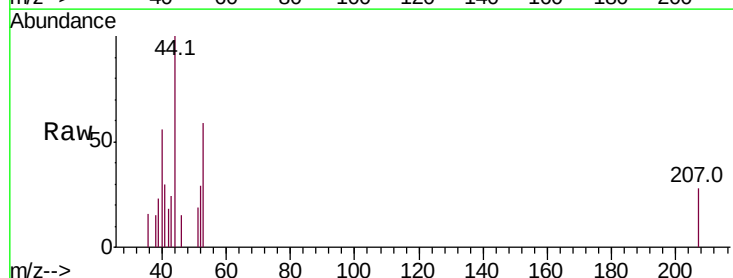
Tgt Ion: 53 Resp: 250

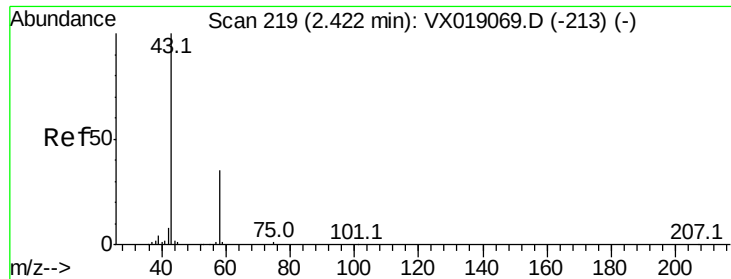
Ion Ratio Lower Upper

53 100

52 58.4 41.0 123.0

51 34.0 18.2 54.6





#15

Acetone

Concen: 2.449 ug/l

RT: 2.43 min Scan# 220

Delta R.T. 0.01 min

Lab File: VX019079.D

Acq: 23 Oct 2020 16:31

Instrument :

MSVOA_X

ClientSampleId :

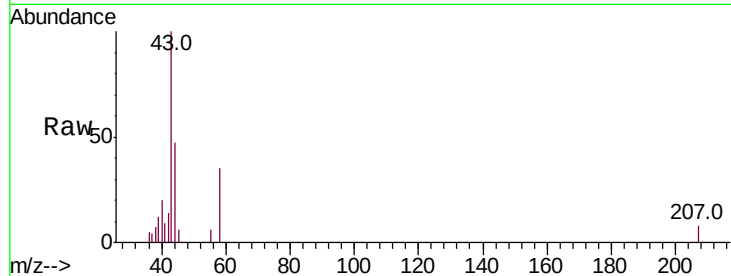
201021001-09-TRIP-BLANK

Tot Ion: 58 Resp: 773

Ion Ratio Lower Upper

58 100

43 241.2 226.7 340.1



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

1500

1000

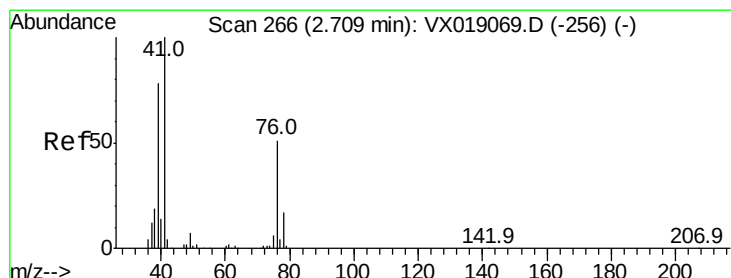
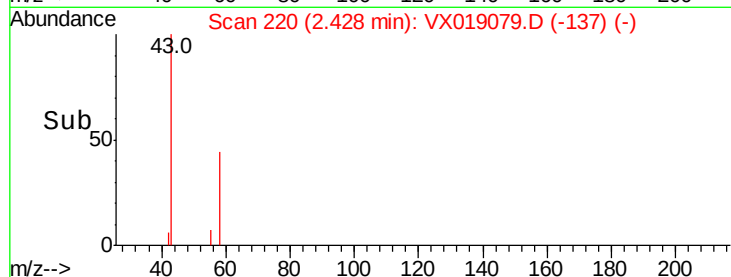
500

0

2.40 2.45

2.43

Time-->



#17

Allyl chloride

Concen: 0.236 ug/l

RT: 2.71 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX019079.D

Acq: 23 Oct 2020 16:31

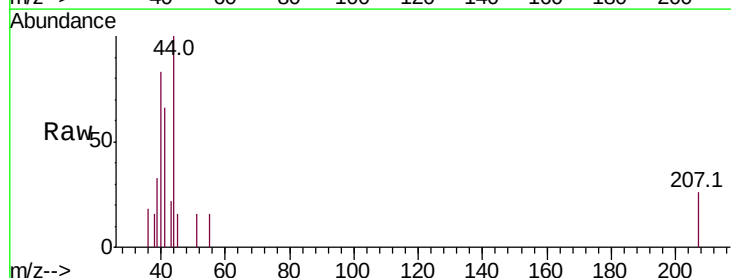
Tgt Ion: 41 Resp: 698

Ion Ratio Lower Upper

41 100

39 23.1 38.8 116.3#

76 0.0 25.8 77.4#



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 76.00 (75.70 to 76.70): VX0

300

200

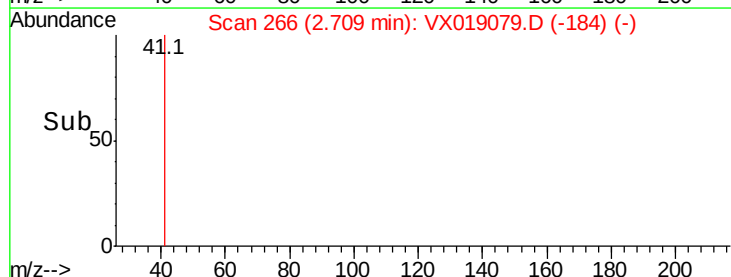
100

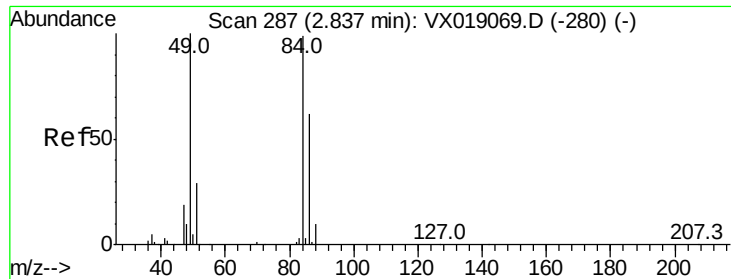
0

2.65 2.70 2.75

2.71

Time-->

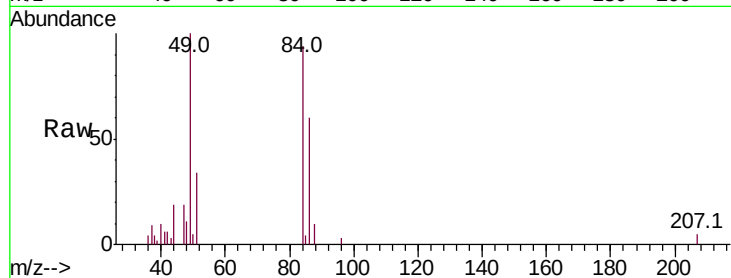




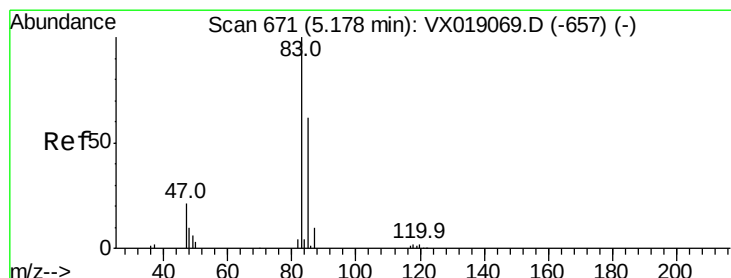
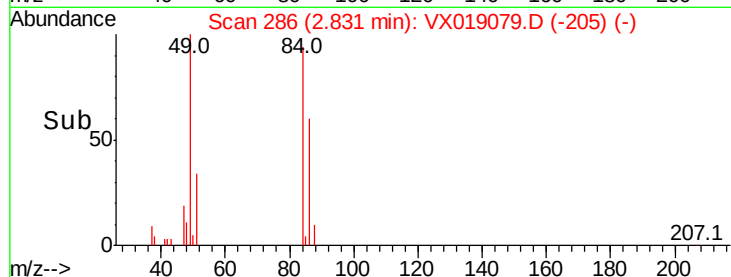
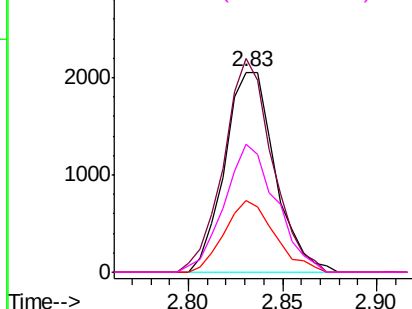
#18
Methylene Chloride
Concen: 1.410 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.01 min
Lab File: VX019079.D
Acq: 23 Oct 2020 16:31

Instrument :
MSVOA_X
ClientSampleId :
201021001-09-TRIP-BLANK

Tot Ion: 84 Resp: 3810
Ion Ratio Lower Upper
84 100
49 106.9 80.9 121.3
51 36.0 23.8 35.6#
86 63.8 50.6 75.8

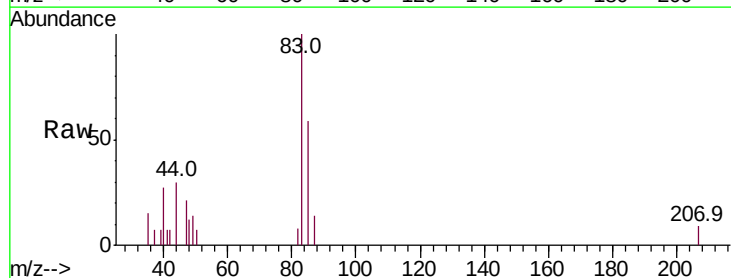


Abundance Ion 84.00 (83.70 to 84.70): VX0
Ion 49.00 (48.70 to 49.70): VX0
Ion 51.00 (50.70 to 51.70): VX0
Ion 86.00 (85.70 to 86.70): VX0

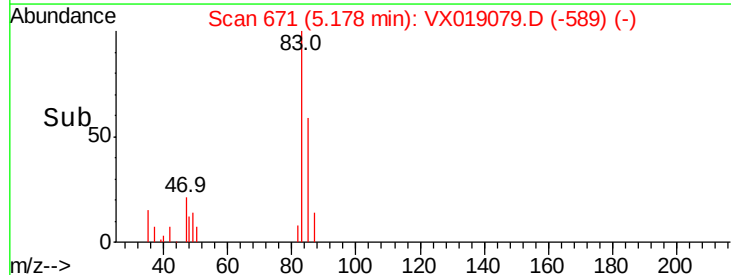
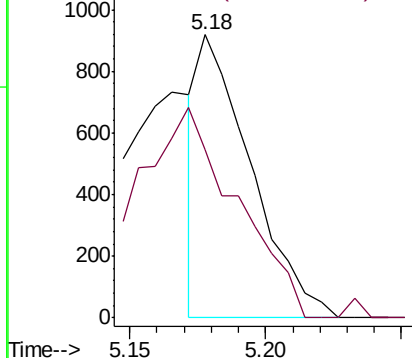


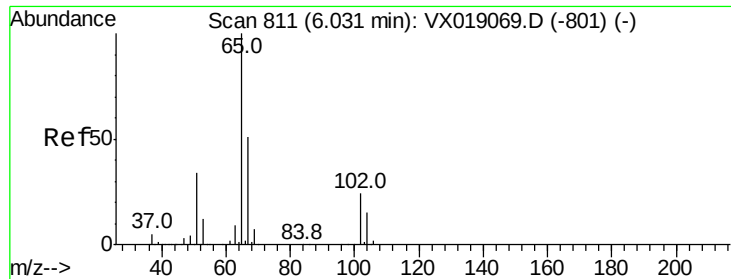
#25
Chloroform
Concen: 0.253 ug/l
RT: 5.18 min Scan# 671
Delta R.T. 0.00 min
Lab File: VX019079.D
Acq: 23 Oct 2020 16:31

Tgt Ion: 83 Resp: 1232
Ion Ratio Lower Upper
83 100
85 59.3 49.8 74.8



Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 85.00 (84.70 to 85.70): VX0

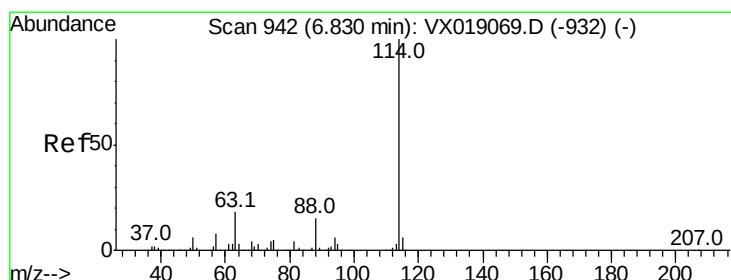
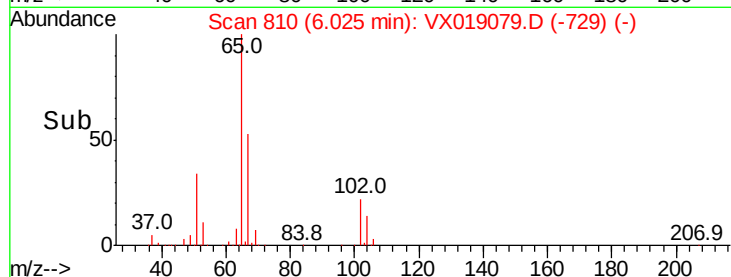
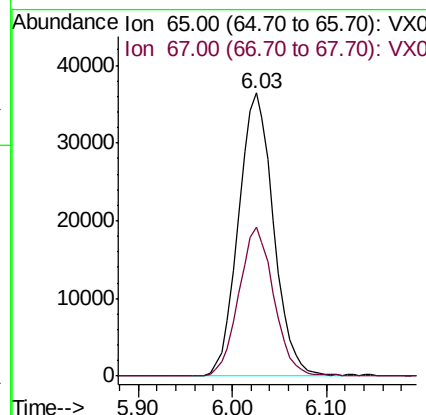
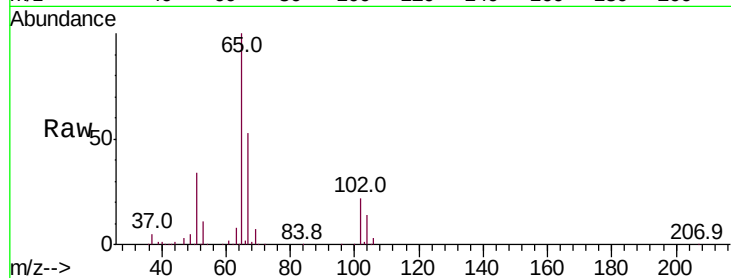




#27
 1,2-Dichloroethane-d4
 Concen: 30.297 ug/l
 RT: 6.03 min Scan# 810
 Delta R.T. -0.01 min
 Lab File: VX019079.D
 Acq: 23 Oct 2020 16:31

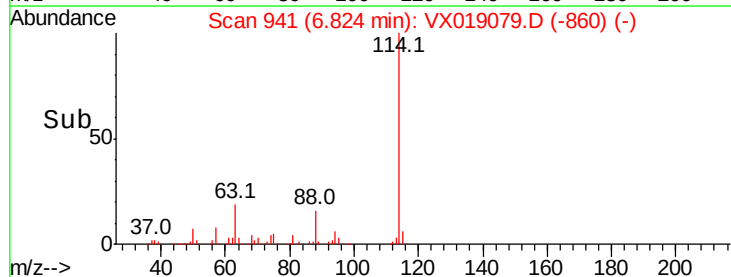
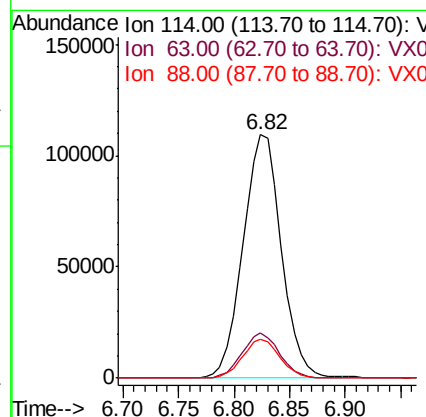
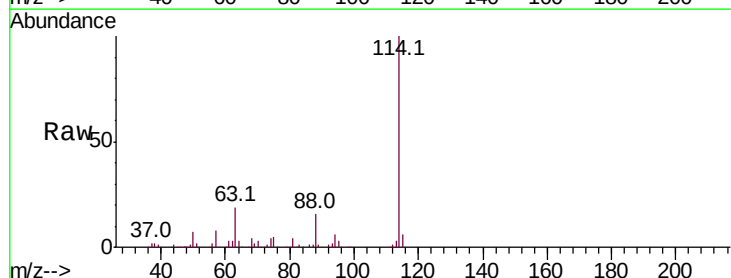
Instrument :
 MSVOA_X
 ClientSampleId :
 201021001-09-TRIP-BLANK

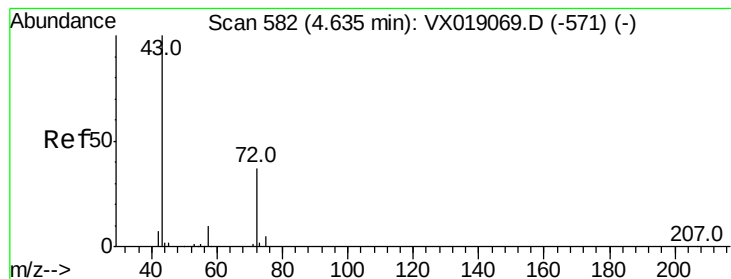
Tot Ion: 65 Resp: 94969
 Ion Ratio Lower Upper
 65 100
 67 52.6 42.0 63.0



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.82 min Scan# 941
 Delta R.T. -0.01 min
 Lab File: VX019079.D
 Acq: 23 Oct 2020 16:31

Tgt Ion: 114 Resp: 261300
 Ion Ratio Lower Upper
 114 100
 63 18.3 14.6 21.8
 88 15.6 12.2 18.2





#30

2-Butanone

Concen: 0.234 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX019079.D

Acq: 23 Oct 2020 16:31

Instrument :

MSVOA_X

ClientSampleId :

201021001-09-TRIP-BLANK

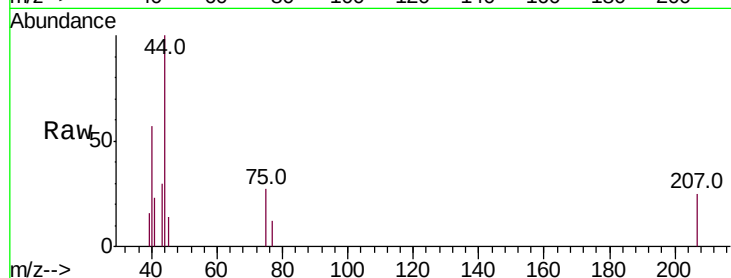
Tot Ion: 43 Resp: 344

Ion Ratio Lower Upper

43 100

57 0.0 7.8 11.6#

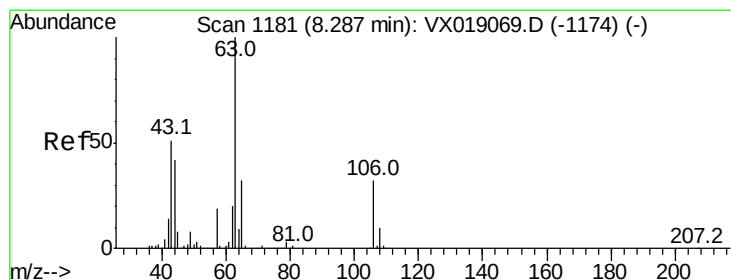
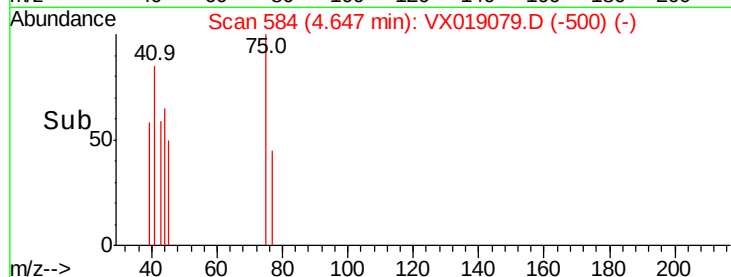
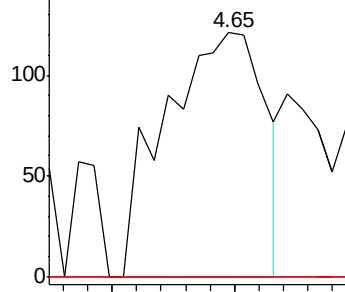
72 0.0 28.1 42.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#55

2-Chloroethyl vinyl ether

Concen: 1.219 ug/l

RT: 8.29 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VX019079.D

Acq: 23 Oct 2020 16:31

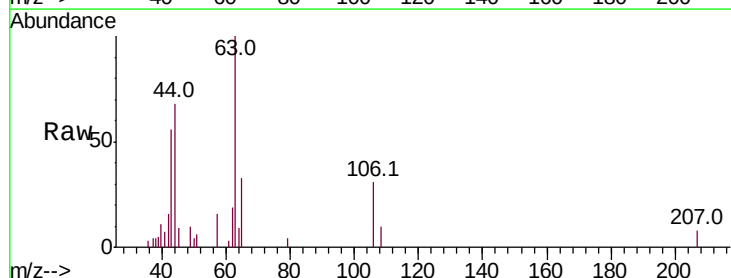
Tgt Ion: 63 Resp: 2691

Ion Ratio Lower Upper

63 100

65 35.6 26.0 39.0

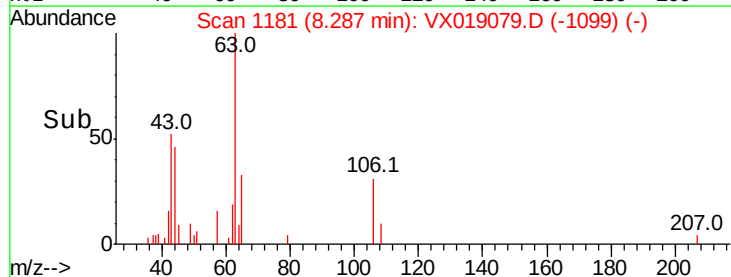
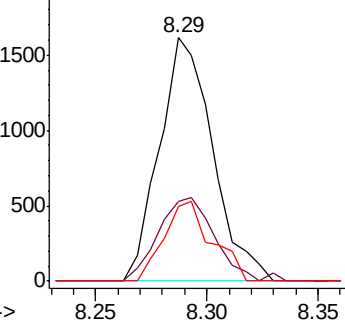
106 26.6 25.9 38.9

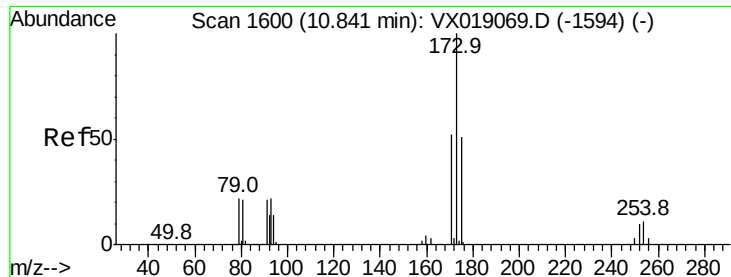


Abundance Ion 63.00 (62.70 to 63.70): VX0

Ion 65.00 (64.70 to 65.70): VX0

Ion 106.00 (105.70 to 106.70): V





#56

Bromoform

Concen: 0.320 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.28 min

Lab File: VX019079.D

Acq: 23 Oct 2020 16:31

Instrument :

MSVOA_X

ClientSampleId :

201021001-09-TRIP-BLANK

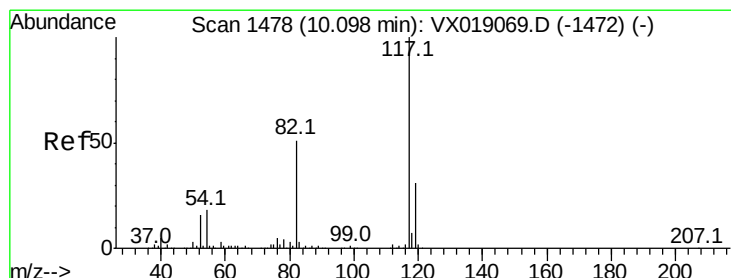
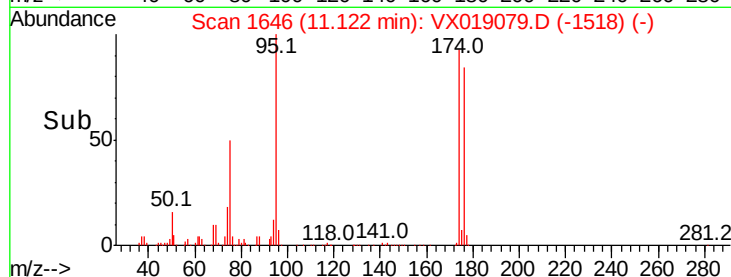
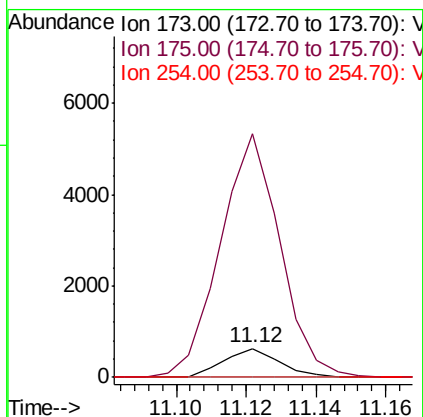
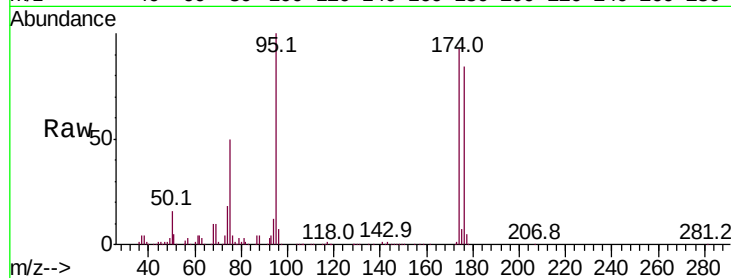
Tot Ion:173 Resp: 705

Ion Ratio Lower Upper

173 100

175 897.6 39.6 59.4#

254 0.0 8.6 13.0#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX019079.D

Acq: 23 Oct 2020 16:31

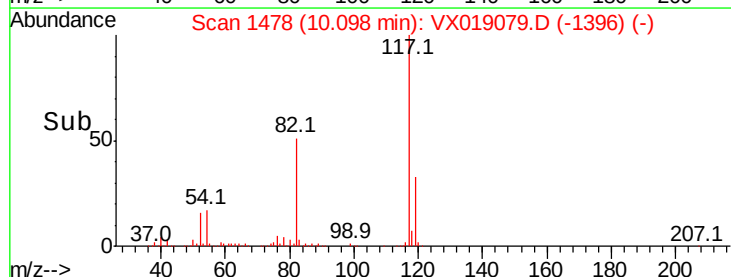
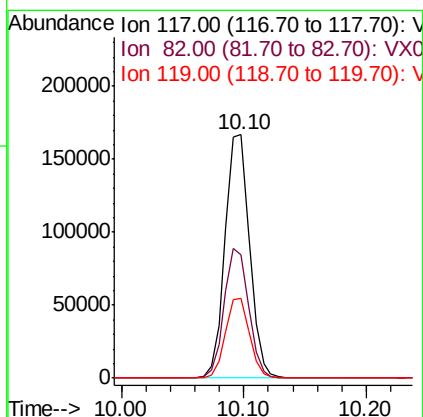
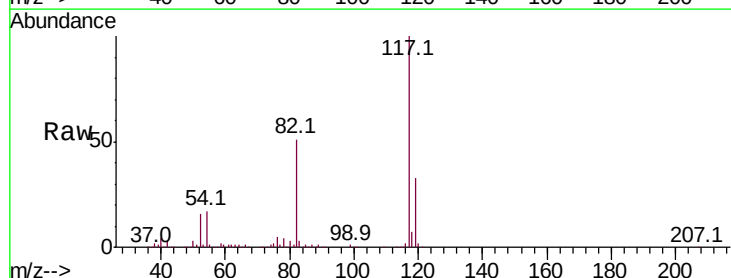
Tgt Ion:117 Resp: 232590

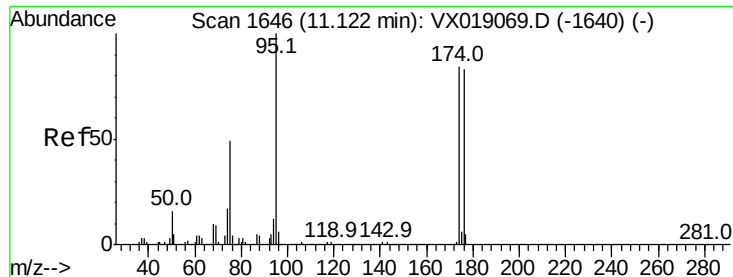
Ion Ratio Lower Upper

117 100

82 53.0 42.5 63.7

119 32.1 25.6 38.4

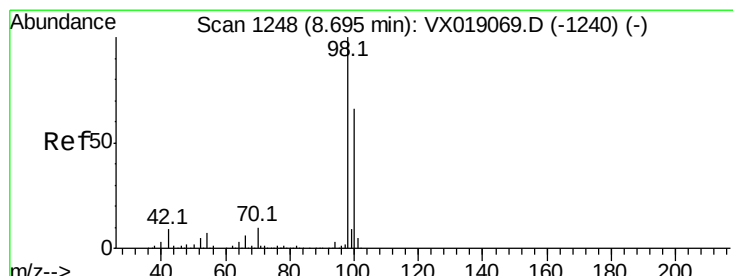
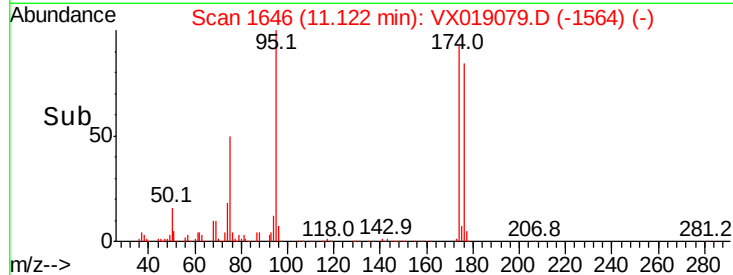
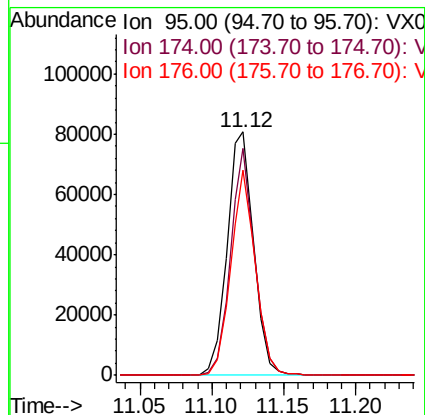
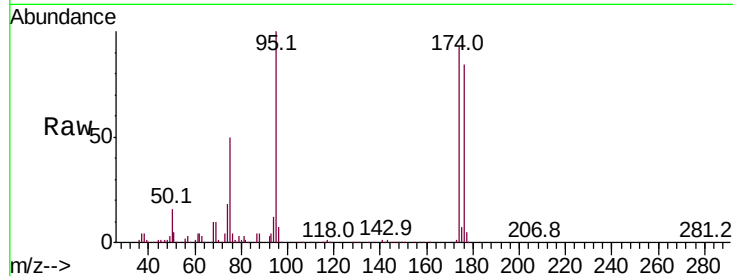




#60
4-Bromofluorobenzene
Concen: 30.006 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX019079.D
Acq: 23 Oct 2020 16:31

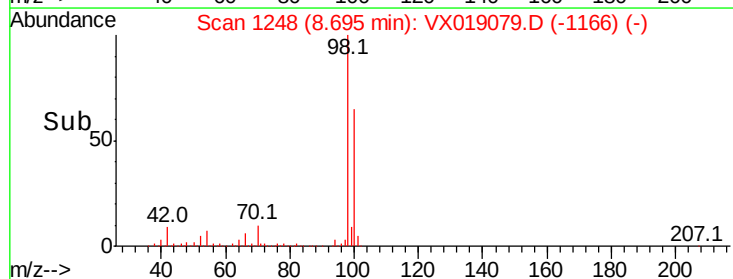
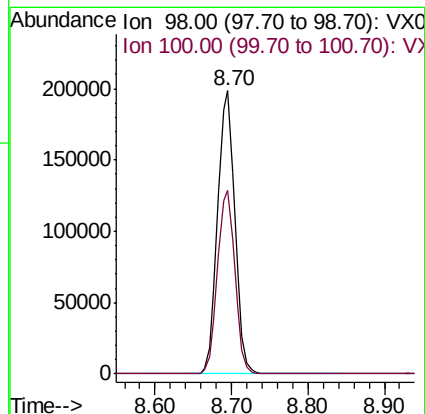
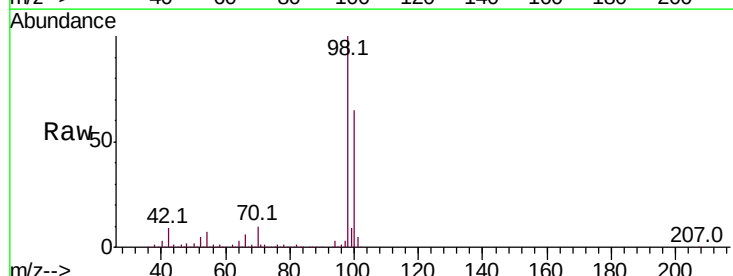
Instrument :
MSVOA_X
ClientSampleId :
201021001-09-TRIP-BLANK

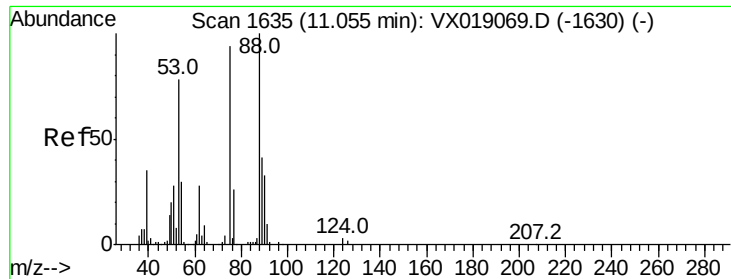
Tot Ion: 95 Resp: 104752
Ion Ratio Lower Upper
95 100
174 84.3 66.3 99.5
176 78.0 65.5 98.3



#63
Toluene-d8
Concen: 30.262 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX019079.D
Acq: 23 Oct 2020 16:31

Tgt Ion: 98 Resp: 310764
Ion Ratio Lower Upper
98 100
100 65.3 52.2 78.4





#77
t-1,4-Dichloro-2-butene
Concen: 38.853 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.07 min
Lab File: VX019079.D
Acq: 23 Oct 2020 16:31

Instrument :
MSVOA_X
ClientSampleId :
201021001-09-TRIP-BLANK

Tot Ion: 75 Resp: 52504
Ion Ratio Lower Upper
75 100
53 0.0 41.6 124.8#
89 0.0 21.8 65.3#

