

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112020\
 Data File : VX019479.D
 Acq On : 19 Nov 2020 20:27
 Operator : JC/MD
 Sample : L4820-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TT-022-IDW/GW-20201118

Quant Time: Nov 20 01:38:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X112020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 20 01:06:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	46517	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	255416	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	229869	30.00	ug/l	0.00

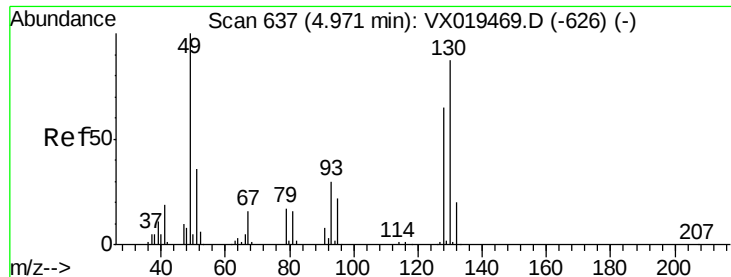
System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	103826	31.06	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.53%
60) 4-Bromofluorobenzene	11.12	95	102108	27.24	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	90.80%
63) Toluene-d8	8.70	98	304787	29.75	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.17%

Target Compounds

					Ovalue
5) Bromomethane	1.62	94	514	0.426 ug/l	99
15) Acetone	2.43	58	1686	3.855 ug/l	96
16) Carbon Disulfide	2.54	76	2396	0.351 ug/l #	76
18) Methylene Chloride	2.83	84	917	0.294 ug/l #	91
23) tert-Butyl Alcohol	3.00	59	3925	6.068 ug/l #	97
51) Ethyl methacrylate	8.70	69	944	0.210 ug/l	77
62) Toluene	8.76	91	3010	0.234 ug/l	96
77) t-1,4-Dichloro-2-butene	11.12	75	50509	35.417 ug/l #	11

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



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.98 min Scan# 638

Delta R.T. 0.01 min

Lab File: VX019479.D

Acq: 19 Nov 2020 20:27

Instrument :

MSVOA_X

ClientSampleId :

TT-022-IDW/GW-20201118

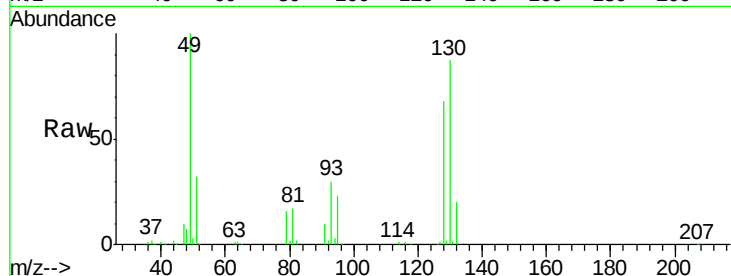
Tot Ion:128 Resp: 46517

Ion Ratio Lower Upper

128 100

49 148.7 0.0 377.8

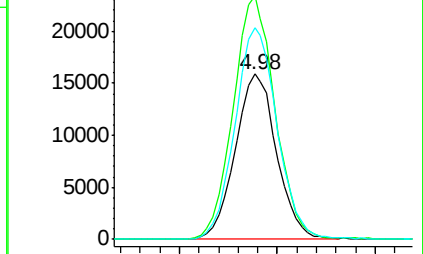
130 130.3 0.0 324.0



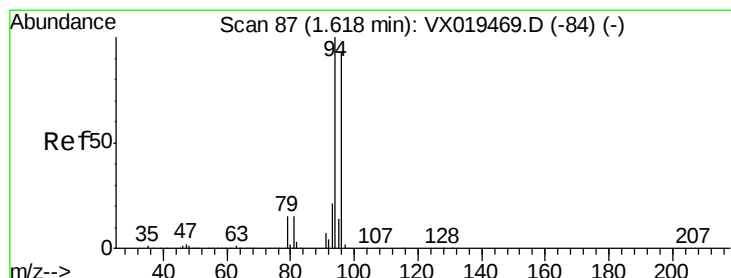
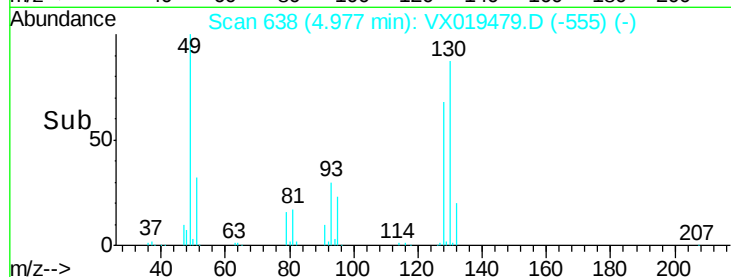
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



Time-->



#5

Bromomethane

Concen: 0.426 ug/l

RT: 1.62 min Scan# 88

Delta R.T. 0.01 min

Lab File: VX019479.D

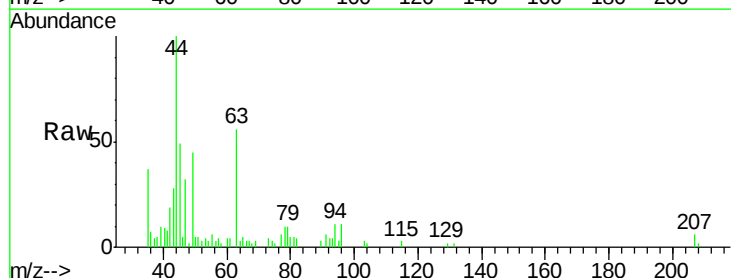
Acq: 19 Nov 2020 20:27

Tgt Ion: 94 Resp: 514

Ion Ratio Lower Upper

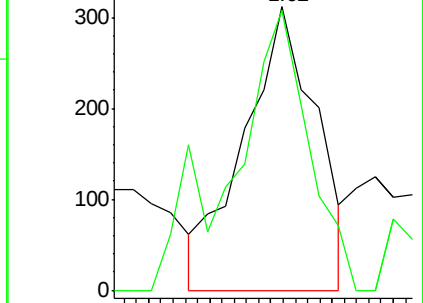
94 100

96 94.0 74.6 111.8

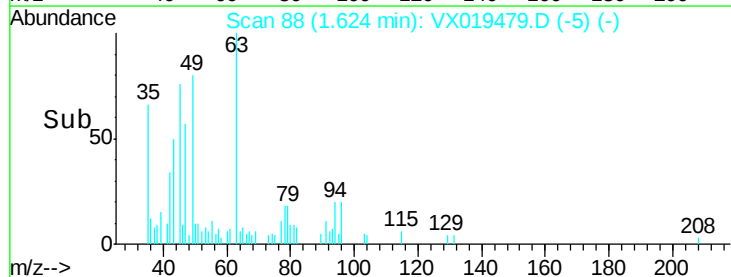


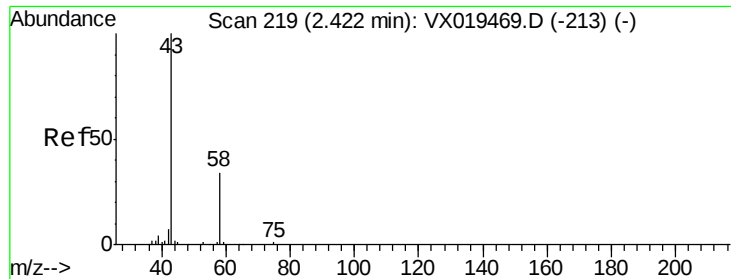
Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0



Time-->





#15

Acetone

Concen: 3.855 ug/l

RT: 2.43 min Scan# 220

Delta R.T. 0.01 min

Lab File: VX019479.D

Acq: 19 Nov 2020 20:27

Instrument :

MSVOA_X

ClientSampleId :

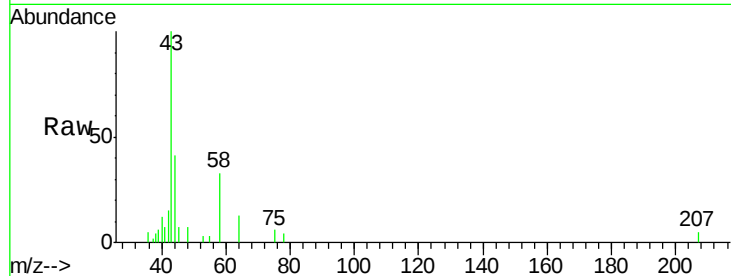
TT-022-IDW/GW-20201118

Tot Ion: 58 Resp: 1686

Ion Ratio Lower Upper

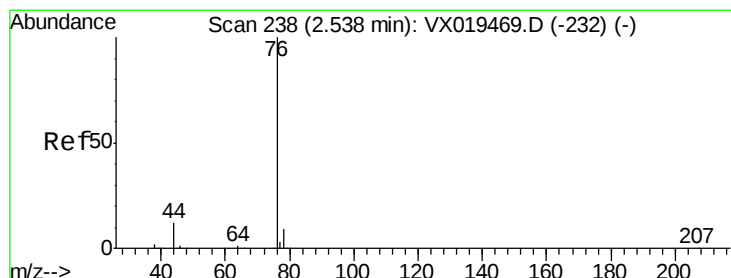
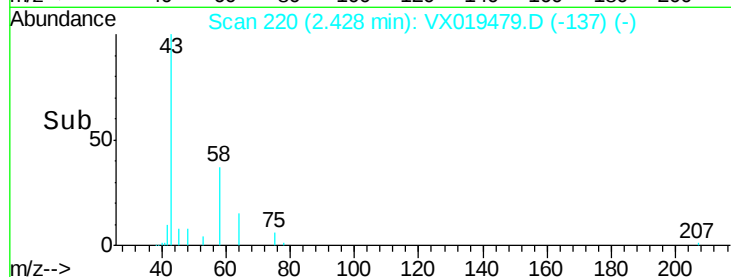
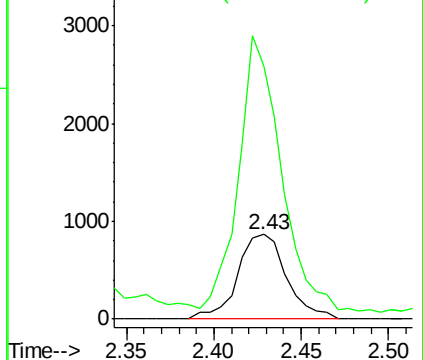
58 100

43 286.7 236.3 354.5



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#16

Carbon Disulfide

Concen: 0.351 ug/l

RT: 2.54 min Scan# 239

Delta R.T. 0.01 min

Lab File: VX019479.D

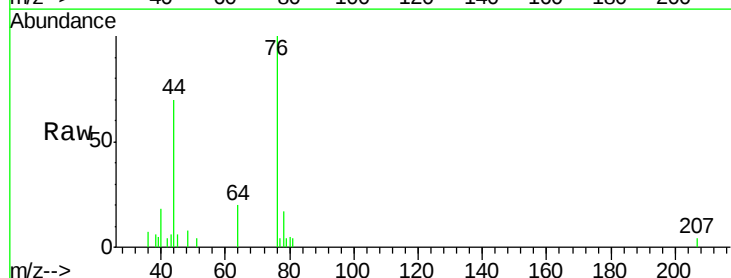
Acq: 19 Nov 2020 20:27

Tgt Ion: 76 Resp: 2396

Ion Ratio Lower Upper

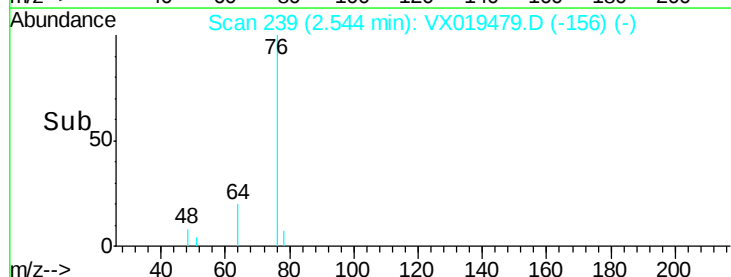
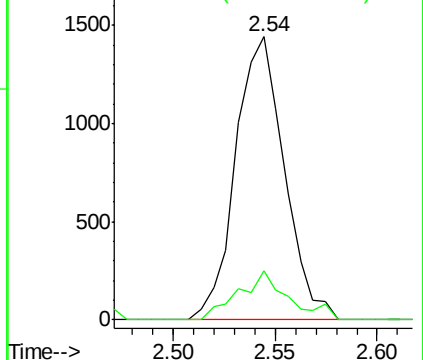
76 100

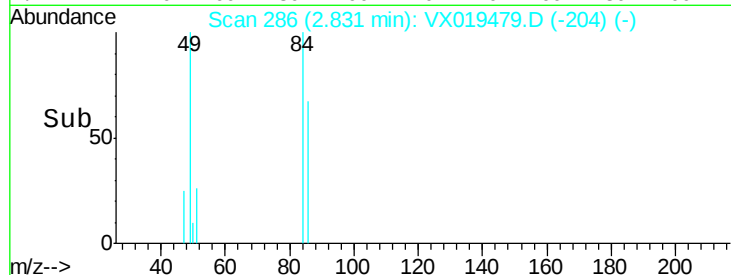
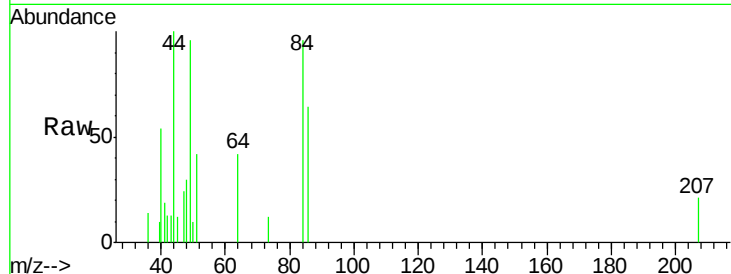
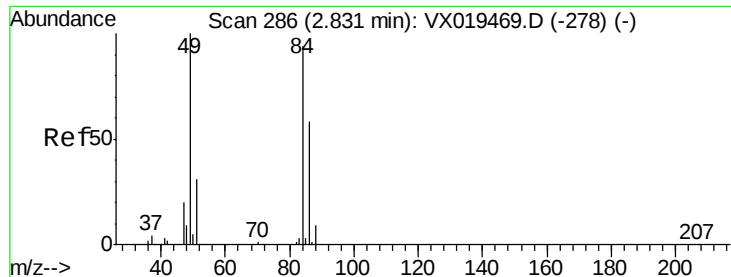
78 17.3 7.0 10.6#



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0

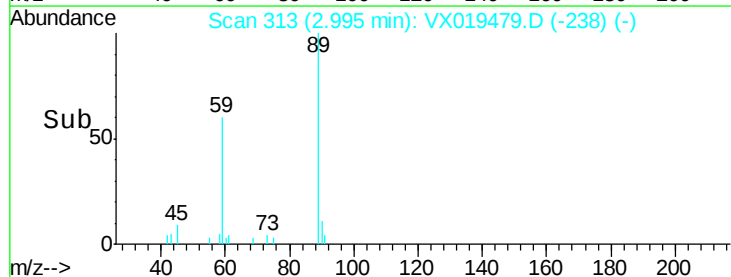
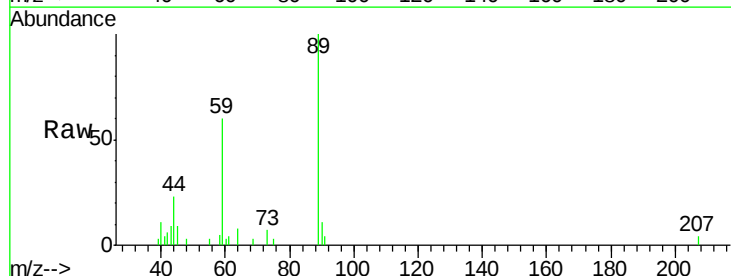
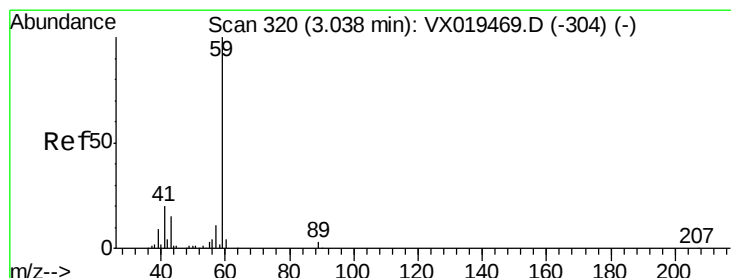
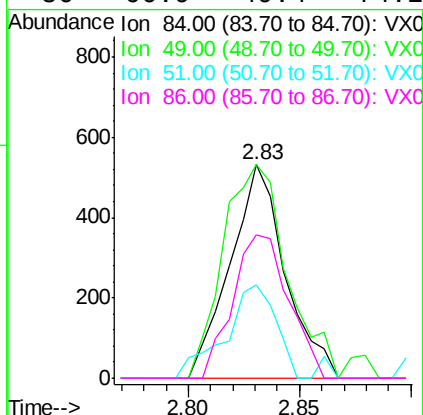




#18
Methvlene Chloride
Concen: 0.294 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.00 min
Lab File: VX019479.D
Acq: 19 Nov 2020 20:27

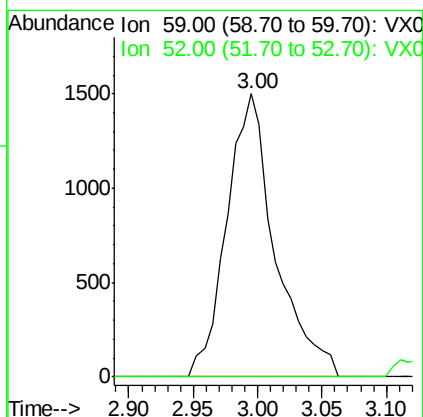
Instrument :
MSVOA_X
ClientSampleId :
TT-022-IDW/GW-20201118

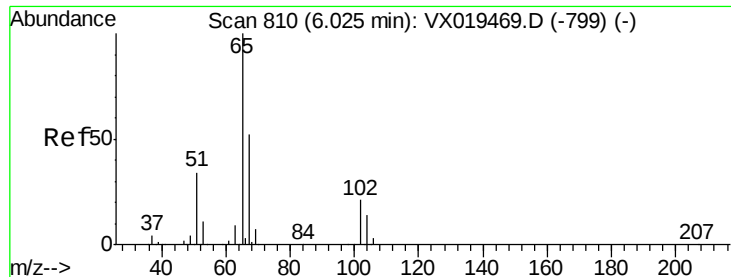
Tot Ion:	84	Resp:	917
Ion	Ratio	Lower	Upper
84	100		
49	99.8	85.4	128.0
51	43.8	26.7	40.1#
86	66.9	49.4	74.2



#23
tert-Butyl Alcohol
Concen: 6.068 ug/l
RT: 3.00 min Scan# 313
Delta R.T. -0.04 min
Lab File: VX019479.D
Acq: 19 Nov 2020 20:27

Tgt Ion:	59	Resp:	3925
Ion	Ratio	Lower	Upper
59	100		
52	4.4	0.2	0.2#

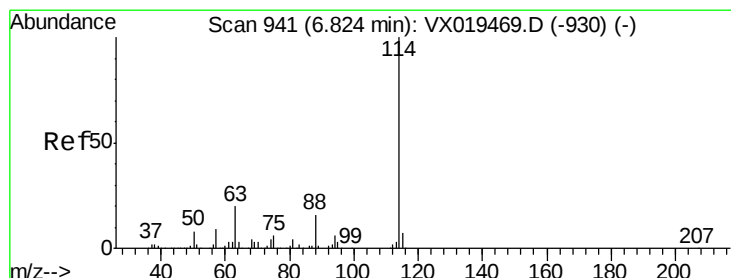
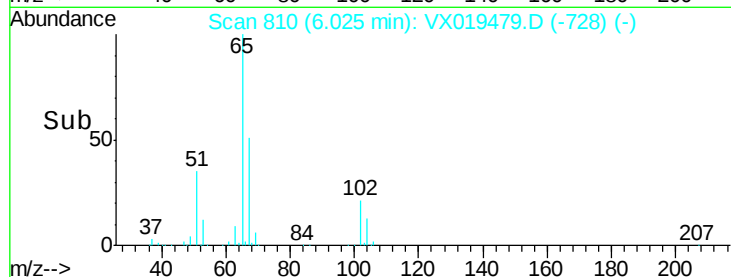
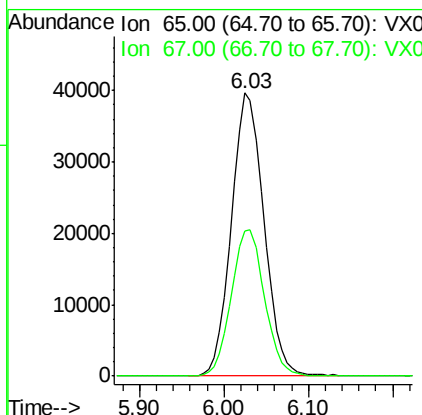
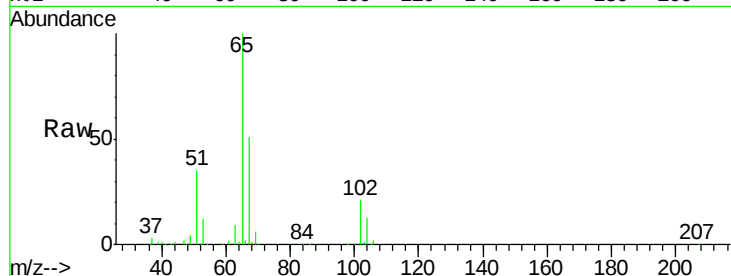




#27
 1,2-Dichloroethane-d4
 Concen: 31.055 ug/l
 RT: 6.03 min Scan# 810
 Delta R.T. -0.00 min
 Lab File: VX019479.D
 Acq: 19 Nov 2020 20:27

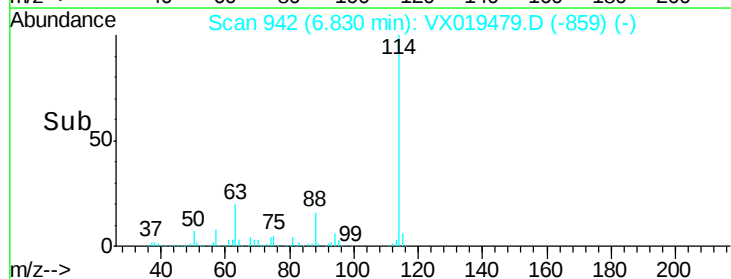
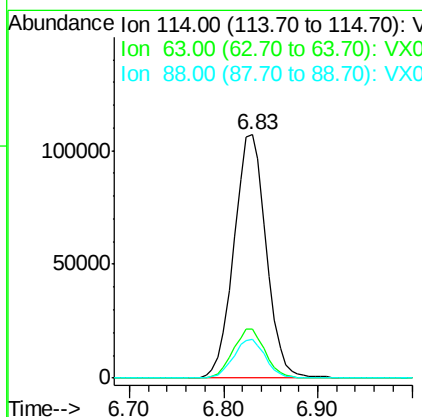
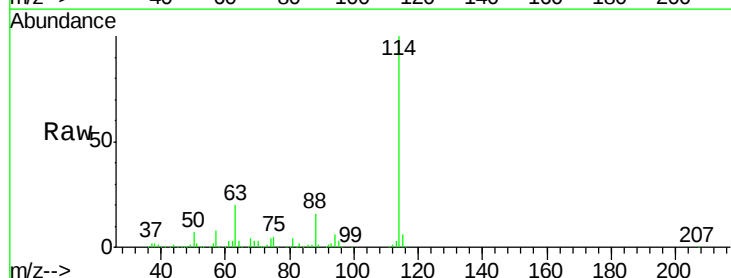
Instrument :
 MSVOA_X
 ClientSampleId :
 TT-022-IDW/GW-20201118

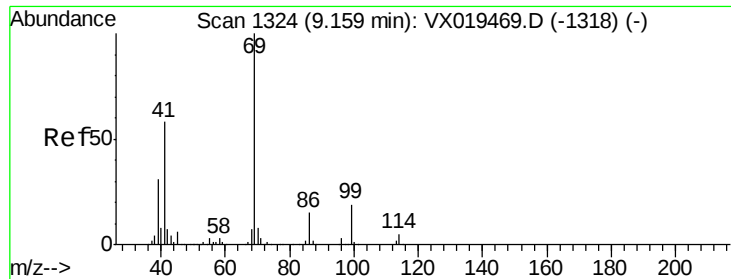
Tot Ion: 65 Resp: 103826
 Ion Ratio Lower Upper
 65 100
 67 52.7 42.2 63.2



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX019479.D
 Acq: 19 Nov 2020 20:27

Tgt Ion: 114 Resp: 255416
 Ion Ratio Lower Upper
 114 100
 63 20.0 16.2 24.2
 88 15.9 12.9 19.3





#51

Ethyl methacrylate

Concen: 0.210 ug/l

RT: 8.70 min Scan# 1249

Delta R.T. -0.46 min

Lab File: VX019479.D

Acq: 19 Nov 2020 20:27

Instrument :

MSVOA_X

ClientSampleId :

TT-022-IDW/GW-20201118

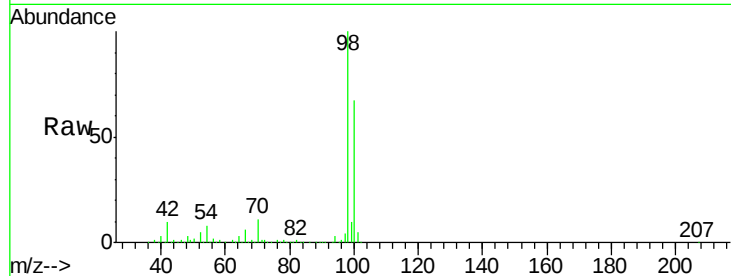
Tot Ion: 69 Resp: 944

Ion Ratio Lower Upper

69 100

41 79.3 29.0 87.1

39 23.4 15.4 46.4

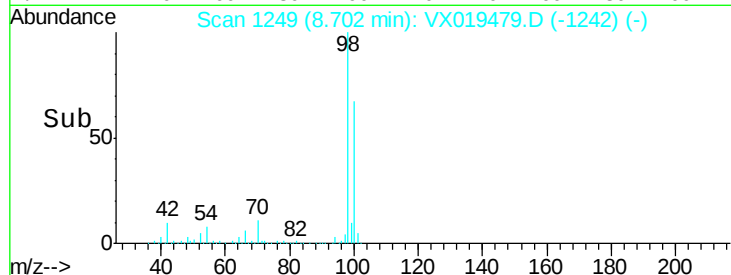


Abundance Ion 69.00 (68.70 to 69.70): VX019469.D (-1318) (-)

Ion 41.00 (40.70 to 41.70): VX019469.D (-1318) (-)

Ion 39.00 (38.70 to 39.70): VX019469.D (-1318) (-)

Time-->

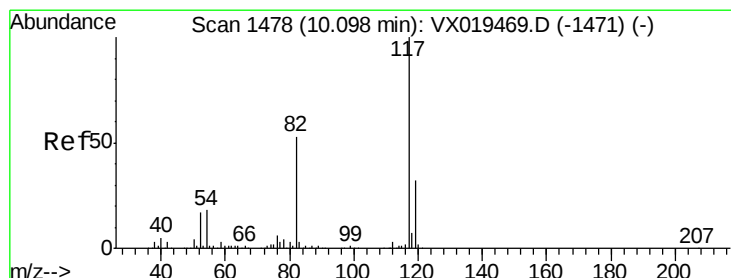


Abundance Ion 69.00 (68.70 to 69.70): VX019469.D (-1318) (-)

Ion 41.00 (40.70 to 41.70): VX019469.D (-1318) (-)

Ion 39.00 (38.70 to 39.70): VX019469.D (-1318) (-)

Time-->



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX019479.D

Acq: 19 Nov 2020 20:27

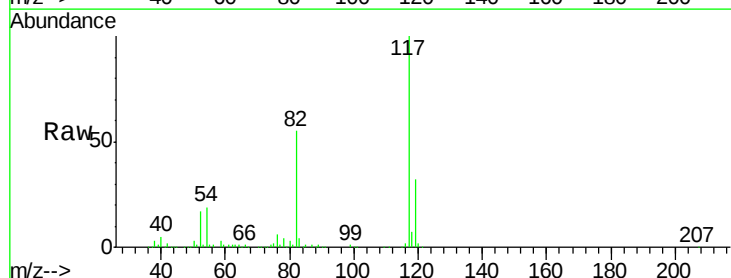
Tgt Ion: 117 Resp: 229869

Ion Ratio Lower Upper

117 100

82 56.2 44.5 66.7

119 32.5 25.9 38.9

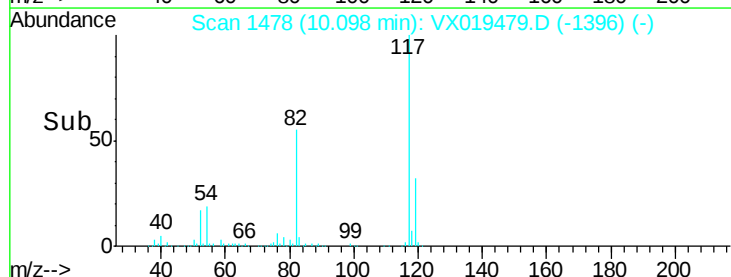


Abundance Ion 117.00 (116.70 to 117.70): VX019469.D (-1471) (-)

Ion 82.00 (81.70 to 82.70): VX019469.D (-1471) (-)

Ion 119.00 (118.70 to 119.70): VX019469.D (-1471) (-)

Time-->

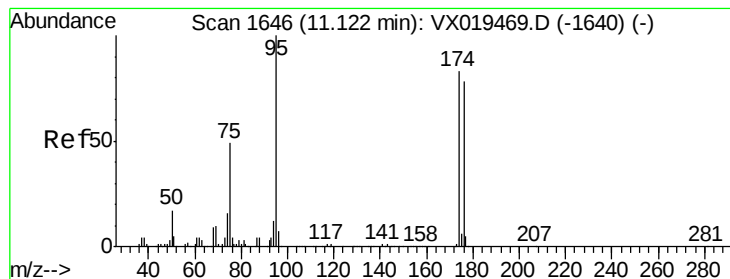


Abundance Ion 117.00 (116.70 to 117.70): VX019469.D (-1471) (-)

Ion 82.00 (81.70 to 82.70): VX019469.D (-1471) (-)

Ion 119.00 (118.70 to 119.70): VX019469.D (-1471) (-)

Time-->



#60

4-Bromofluorobenzene

Concen: 27.237 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019479.D

Acq: 19 Nov 2020 20:27

Instrument :

MSVOA_X

ClientSampleId :

TT-022-IDW/GW-20201118

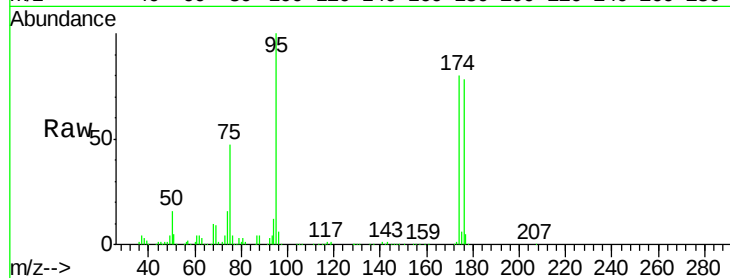
Tot Ion: 95 Resp: 102108

Ion Ratio Lower Upper

95 100

174 77.5 63.5 95.3

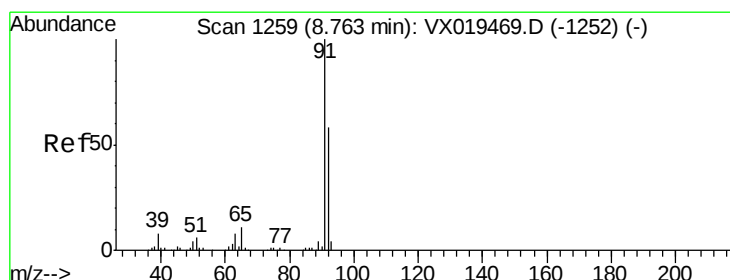
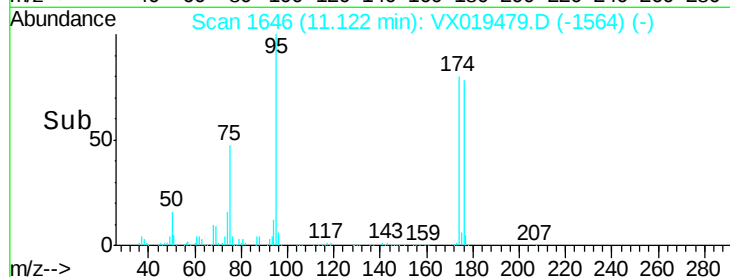
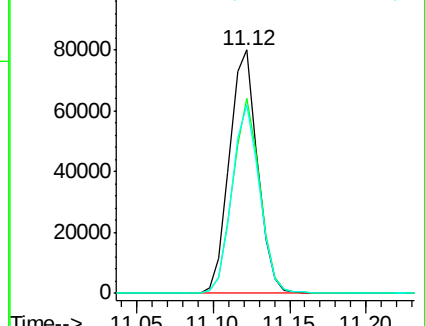
176 76.1 59.8 89.6



Abundance Ion 95.00 (94.70 to 95.70): VX0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#62

Toluene

Concen: 0.234 ug/l

RT: 8.76 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VX019479.D

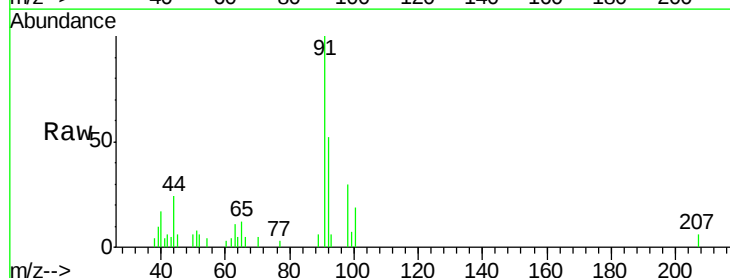
Acq: 19 Nov 2020 20:27

Tgt Ion: 91 Resp: 3010

Ion Ratio Lower Upper

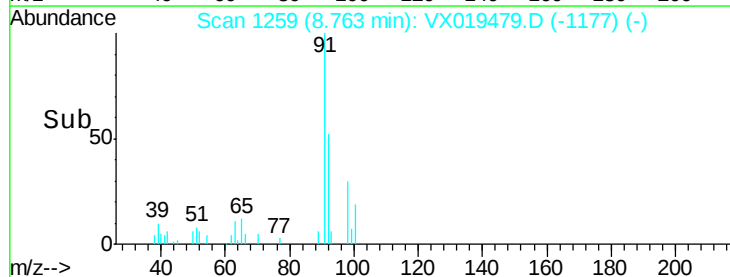
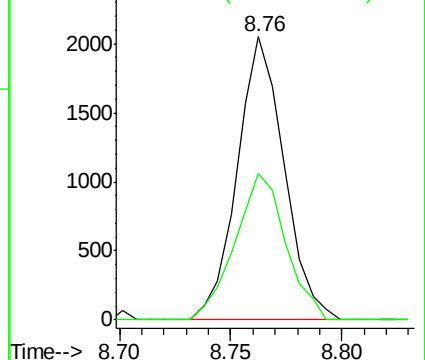
91 100

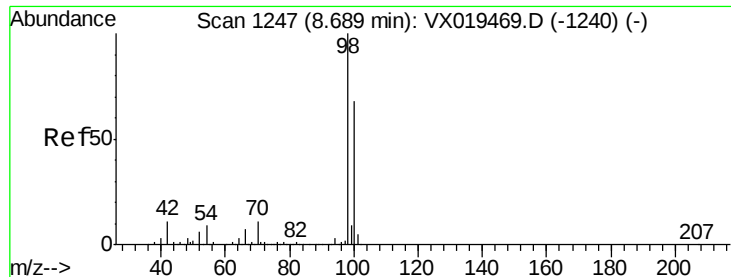
92 56.0 47.4 71.2



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0





#63

Toluene-d8

Concen: 29.746 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.01 min

Lab File: VX019479.D

Acq: 19 Nov 2020 20:27

Instrument :

MSVOA_X

ClientSampleId :

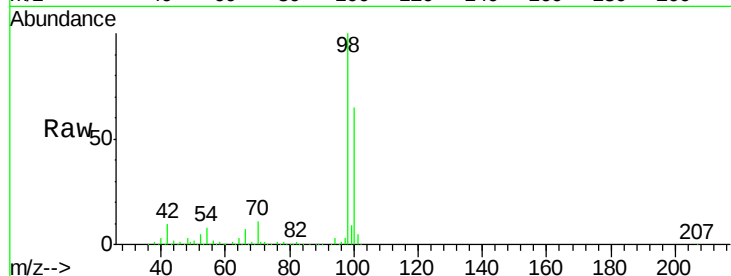
TT-022-IDW/GW-20201118

Tot Ion: 98 Resp: 304787

Ion Ratio Lower Upper

98 100

100 65.4 53.6 80.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

200000

150000

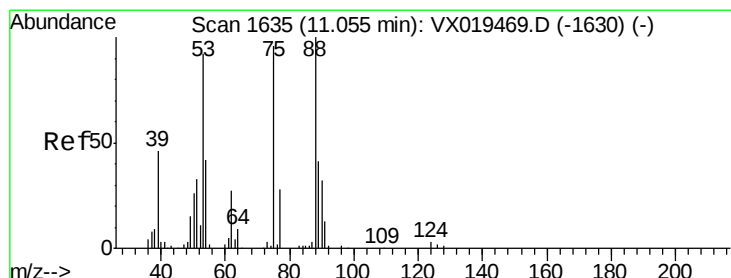
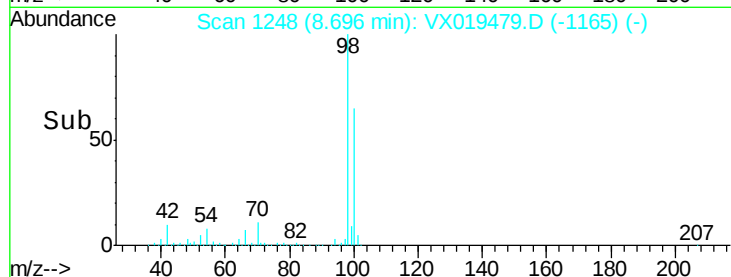
100000

50000

0

8.60 8.65 8.70 8.75 8.80

Time-->



#77

t-1,4-Dichloro-2-butene

Concen: 35.417 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019479.D

Acq: 19 Nov 2020 20:27

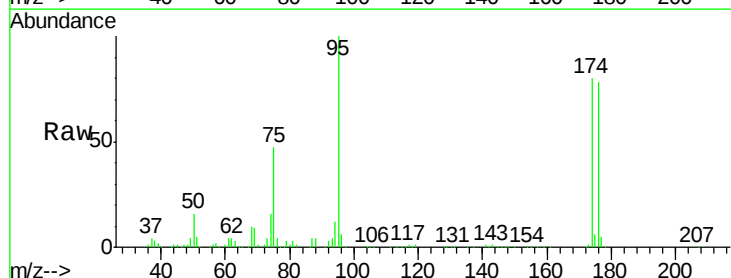
Tgt Ion: 75 Resp: 50509

Ion Ratio Lower Upper

75 100

53 0.0 47.9 143.6#

89 0.0 21.4 64.2#



Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 89.00 (88.70 to 89.70): VX0

50000

40000

30000

20000

10000

0

11.05 11.10 11.15 11.20

Time-->

