

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112020\
 Data File : VX019481.D
 Acq On : 19 Nov 2020 21:14
 Operator : JC/MD
 Sample : L4820-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TT-024-IDW/GW-20201118

Quant Time: Nov 20 01:38:38 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	49060	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	266790	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.09	117	246801	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	108418	30.75	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery	=	102.50%	
60) 4-Bromofluorobenzene	11.12	95	107568	26.73	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery	=	89.10%	
63) Toluene-d8	8.70	98	317455	28.86	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery	=	96.20%	

Target Compounds

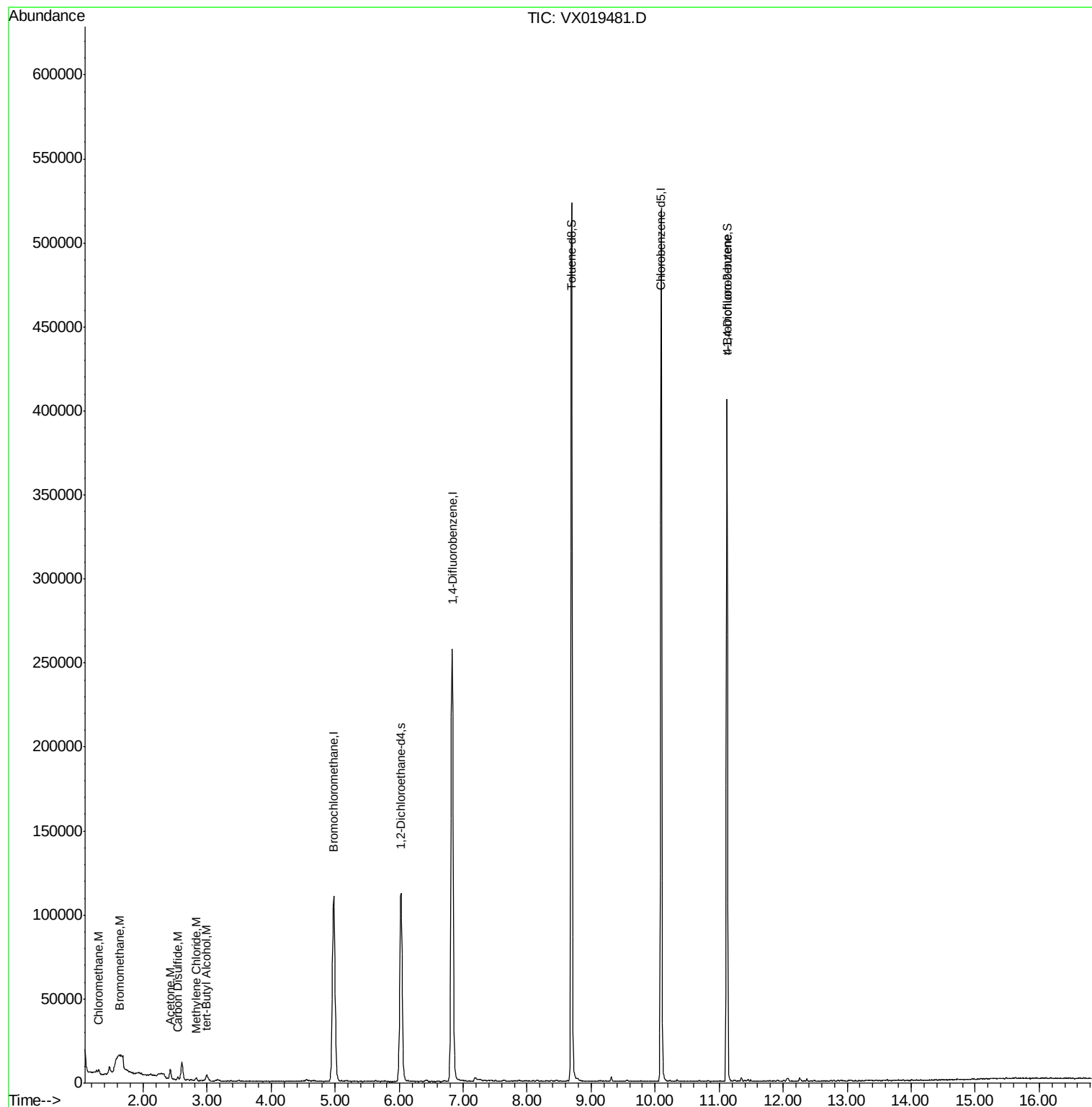
					Ovalue
3) Chloromethane	1.31	50	686	0.226 ug/l	97
5) Bromomethane	1.62	94	468	0.368 ug/l #	51
15) Acetone	2.42	58	2050	4.444 ug/l	99
16) Carbon Disulfide	2.54	76	1971	0.274 ug/l #	81
18) Methylene Chloride	2.83	84	800	0.244 ug/l #	81
23) tert-Butyl Alcohol	2.99	59	2416	3.541 ug/l #	98
77) t-1,4-Dichloro-2-butene	11.12	75	53814	35.146 ug/l #	11

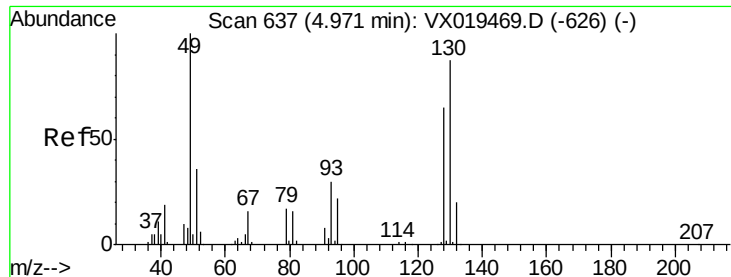
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.98 min Scan# 638

Delta R.T. 0.01 min

Lab File: VX019481.D

Acq: 19 Nov 2020 21:14

Instrument :

MSVOA_X

ClientSampleId :

TT-024-IDW/GW-20201118

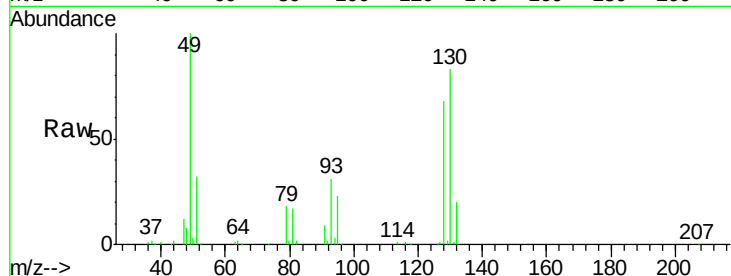
Tot Ion:128 Resp: 49060

Ion Ratio Lower Upper

128 100

49 151.1 0.0 377.8

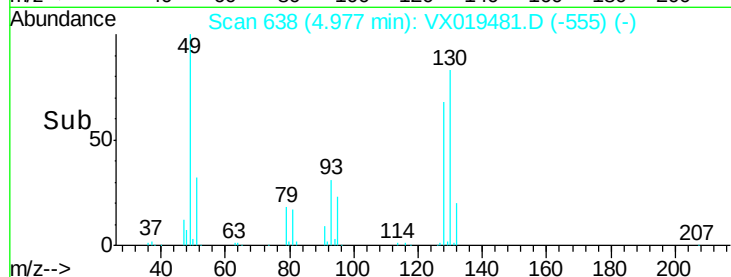
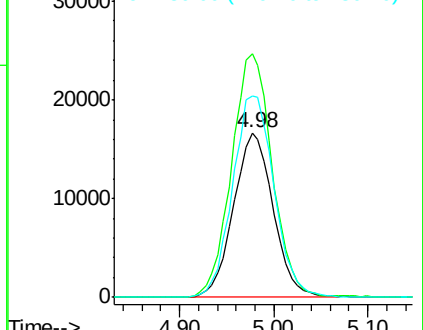
130 128.2 0.0 324.0



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



#3

Chloromethane

Concen: 0.226 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX019481.D

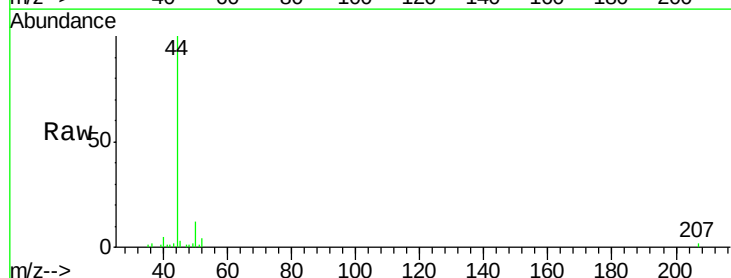
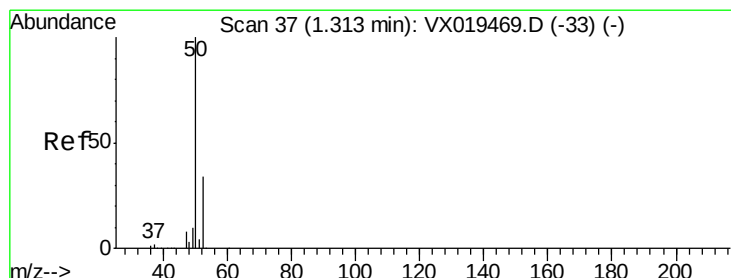
Acq: 19 Nov 2020 21:14

Tgt Ion: 50 Resp: 686

Ion Ratio Lower Upper

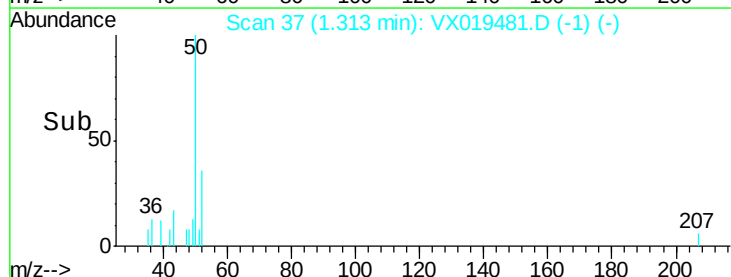
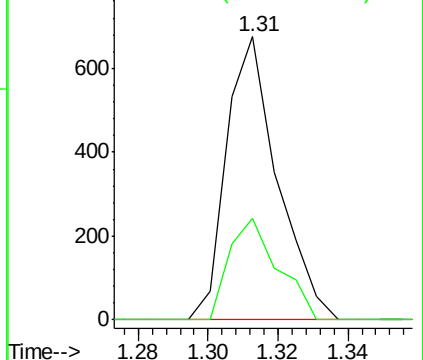
50 100

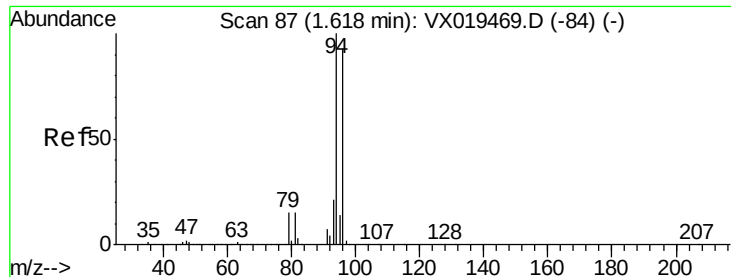
52 36.0 27.5 41.3



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#5

Bromomethane

Concen: 0.368 ug/l

RT: 1.62 min Scan# 88

Delta R.T. 0.01 min

Lab File: VX019481.D

Acq: 19 Nov 2020 21:14

Instrument :

MSVOA_X

ClientSampleId :

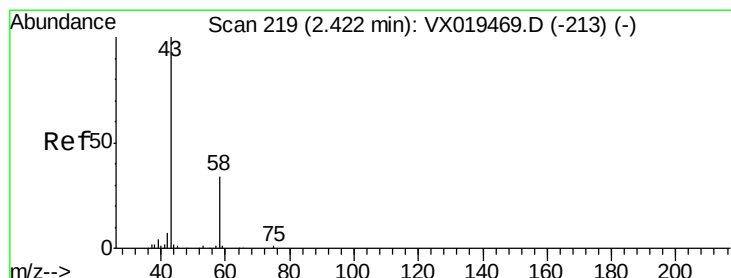
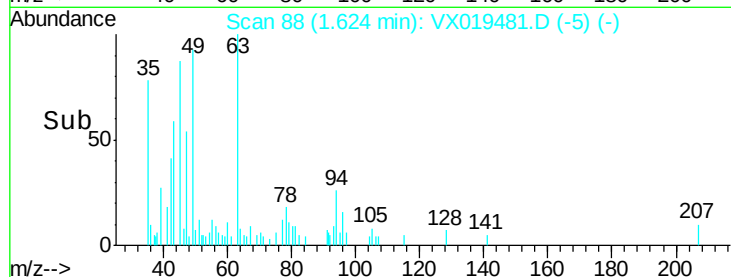
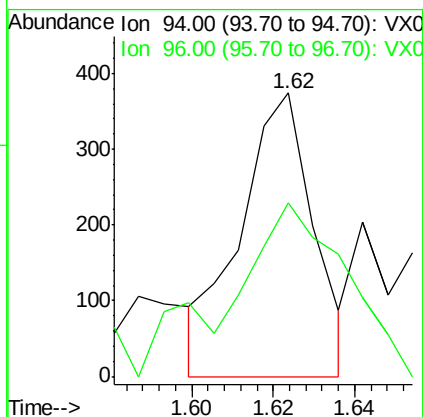
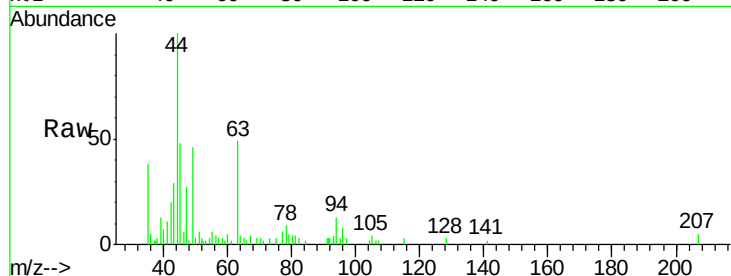
TT-024-IDW/GW-20201118

Tot Ion: 94 Resp: 468

Ion Ratio Lower Upper

94 100

96 46.3 74.6 111.8#



#15

Acetone

Concen: 4.444 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.00 min

Lab File: VX019481.D

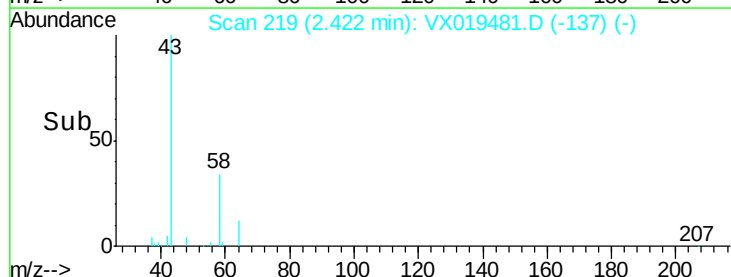
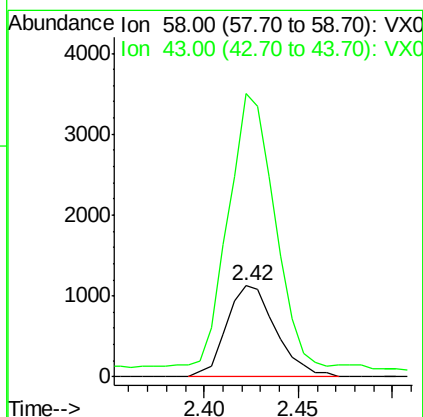
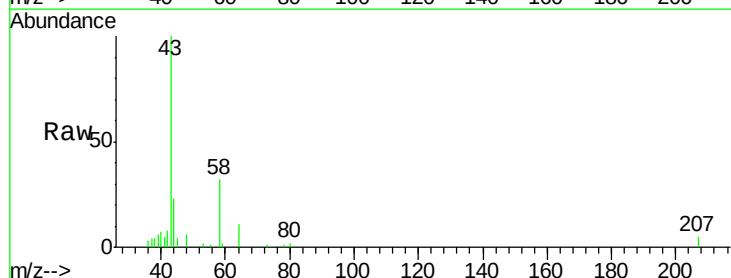
Acq: 19 Nov 2020 21:14

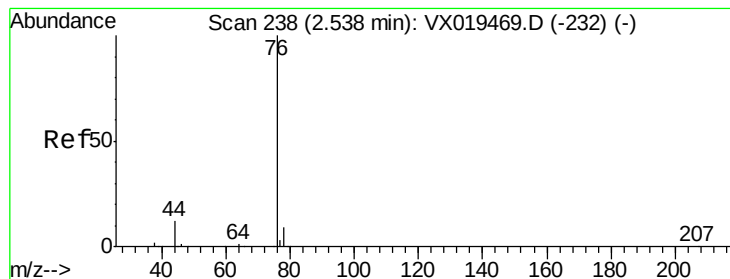
Tgt Ion: 58 Resp: 2050

Ion Ratio Lower Upper

58 100

43 297.7 236.3 354.5





#16

Carbon Disulfide

Concen: 0.274 ug/l

RT: 2.54 min Scan# 239

Delta R.T. 0.01 min

Lab File: VX019481.D

Acq: 19 Nov 2020 21:14

Instrument :

MSVOA_X

ClientSampleId :

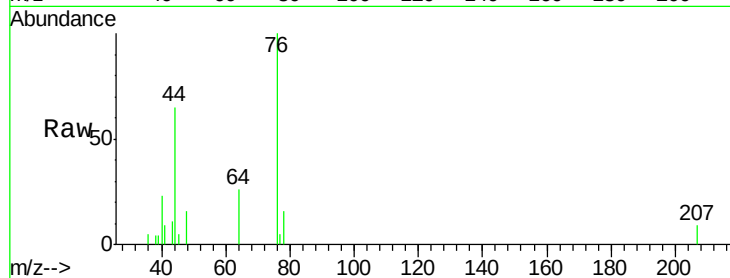
TT-024-IDW/GW-20201118

Tot Ion: 76 Resp: 1971

Ion Ratio Lower Upper

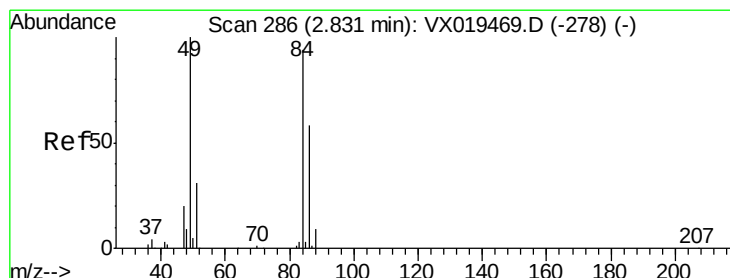
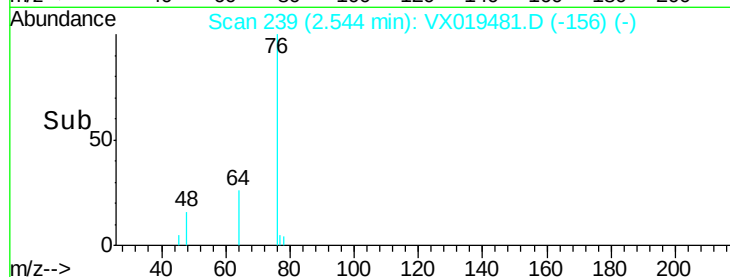
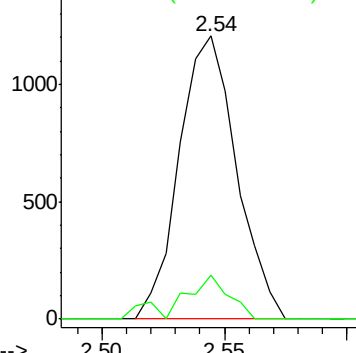
76 100

78 15.5 7.0 10.6#



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0



#18

Methylene Chloride

Concen: 0.244 ug/l

RT: 2.83 min Scan# 286

Delta R.T. 0.00 min

Lab File: VX019481.D

Acq: 19 Nov 2020 21:14

Tgt Ion: 84 Resp: 800

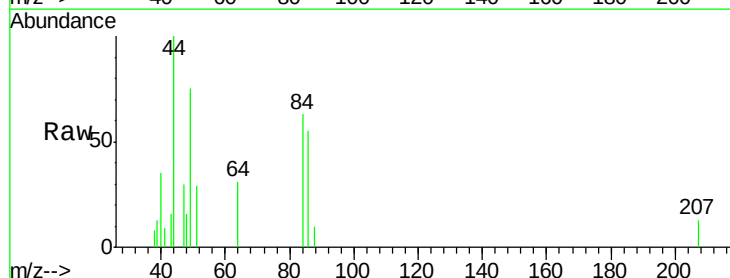
Ion Ratio Lower Upper

84 100

49 118.0 85.4 128.0

51 45.8 26.7 40.1#

86 86.4 49.4 74.2#

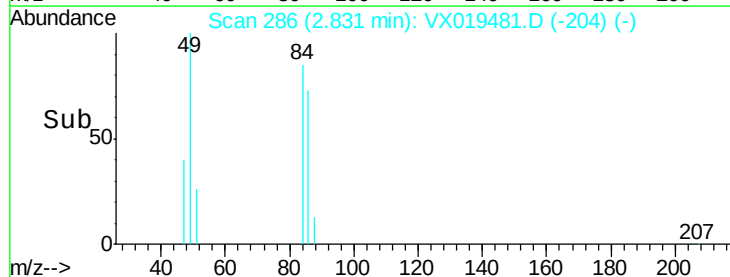
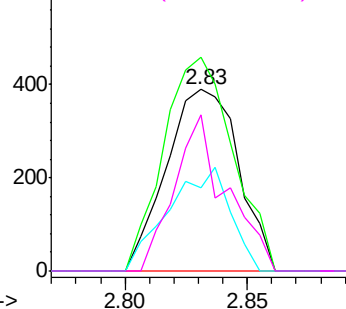


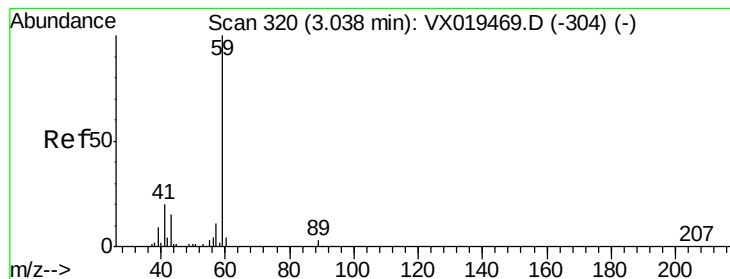
Abundance Ion 84.00 (83.70 to 84.70): VX0

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





#23

tert-Butyl Alcohol

Concen: 3.541 ug/l

RT: 2.99 min Scan# 312

Delta R.T. -0.05 min

Lab File: VX019481.D

Acq: 19 Nov 2020 21:14

Instrument :

MSVOA_X

ClientSampleId :

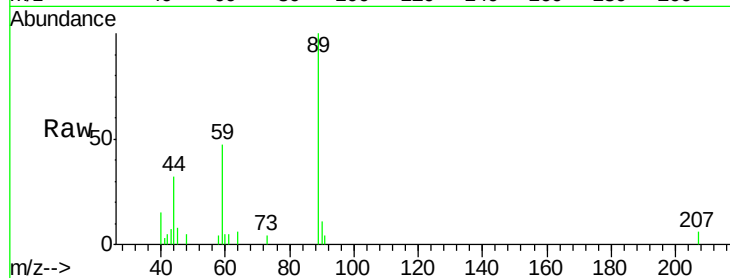
TT-024-IDWGW-20201118

Tot Ion: 59 Resp: 2416

Ion Ratio Lower Upper

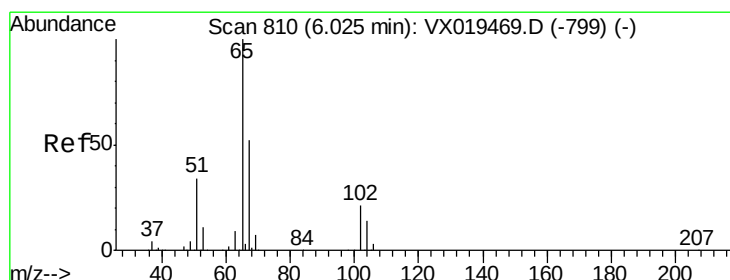
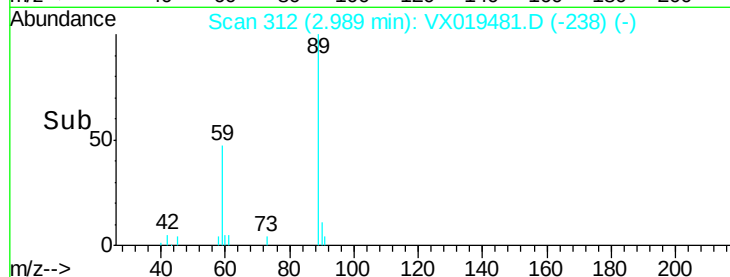
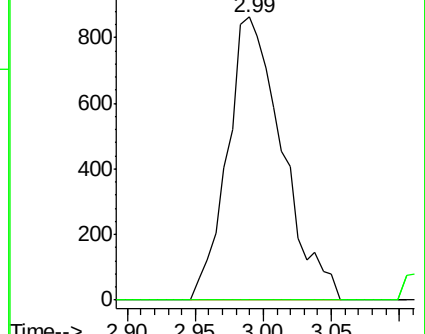
59 100

52 3.3 0.2 0.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#27

1,2-Dichloroethane-d4

Concen: 30.748 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.01 min

Lab File: VX019481.D

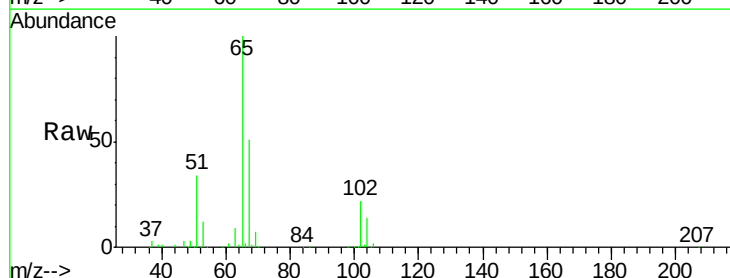
Acq: 19 Nov 2020 21:14

Tgt Ion: 65 Resp: 108418

Ion Ratio Lower Upper

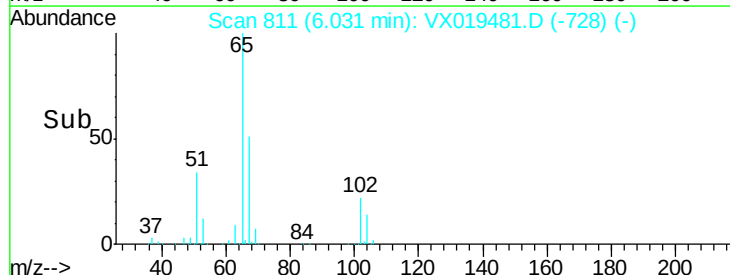
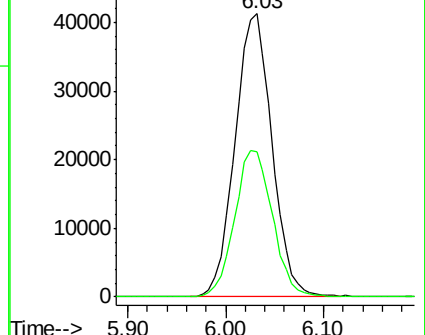
65 100

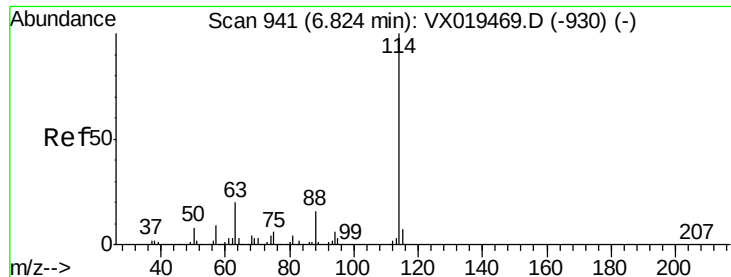
67 52.9 42.2 63.2



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.01 min

Lab File: VX019481.D

Acq: 19 Nov 2020 21:14

Instrument :

MSVOA_X

ClientSampleId :

TT-024-IDWGW-20201118

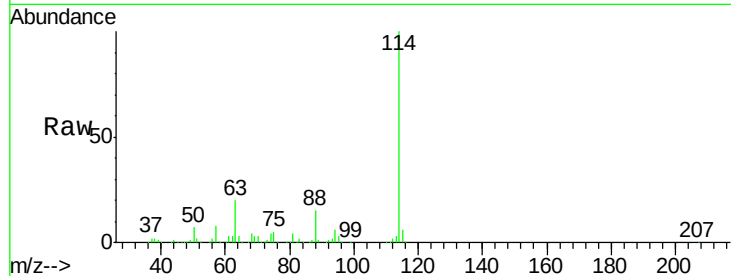
Tot Ion:114 Resp: 266790

Ion Ratio Lower Upper

114 100

63 20.1 16.2 24.2

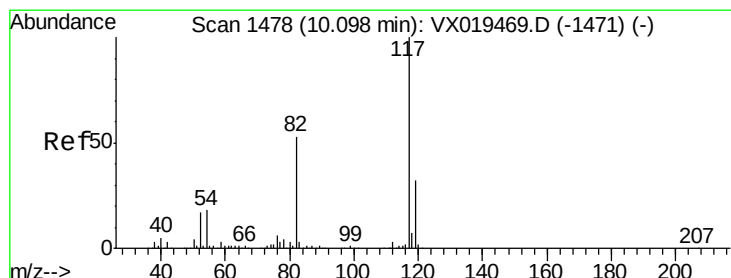
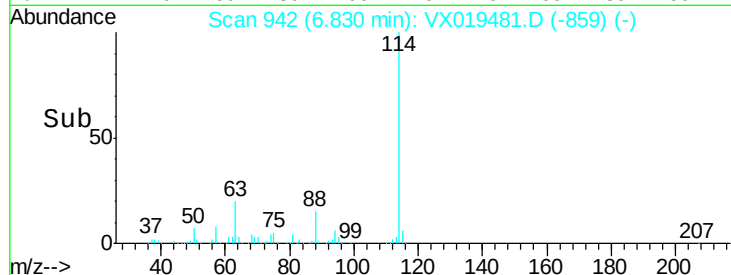
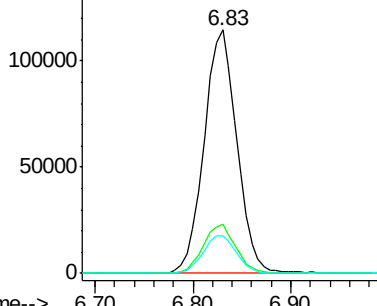
88 15.9 12.9 19.3



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.09 min Scan# 1477

Delta R.T. -0.01 min

Lab File: VX019481.D

Acq: 19 Nov 2020 21:14

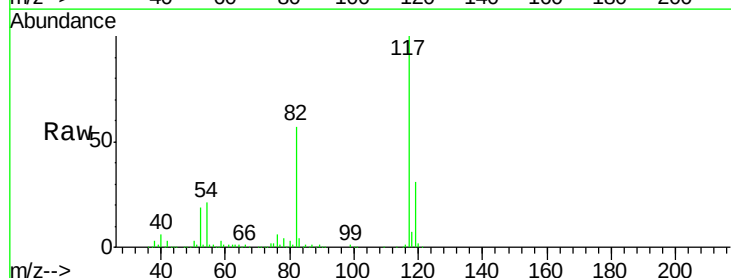
Tgt Ion:117 Resp: 246801

Ion Ratio Lower Upper

117 100

82 56.3 44.5 66.7

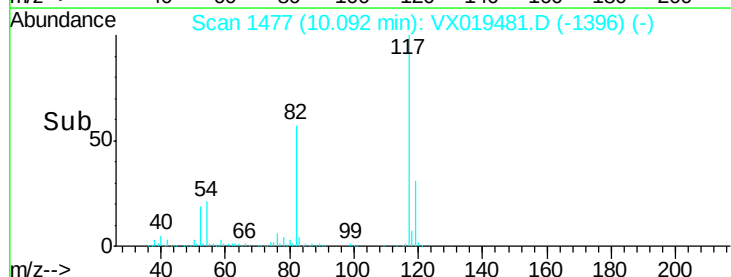
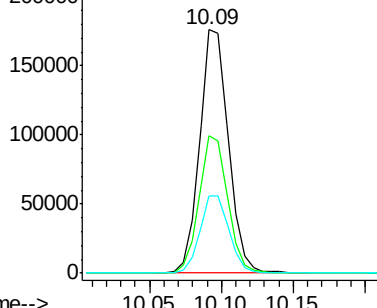
119 32.4 25.9 38.9

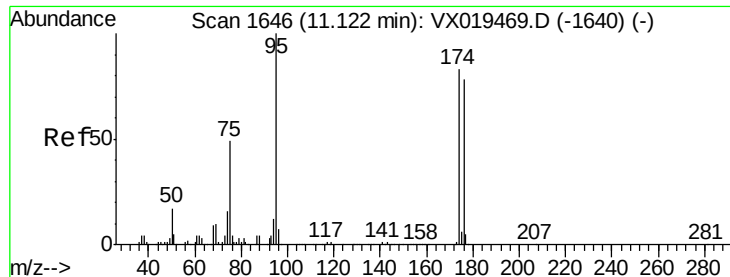


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V

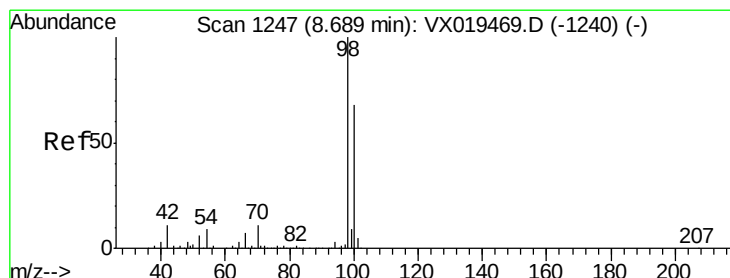
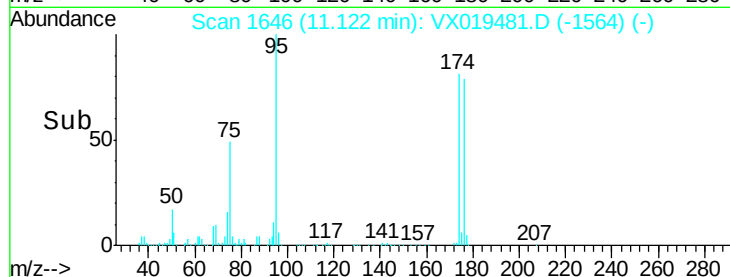
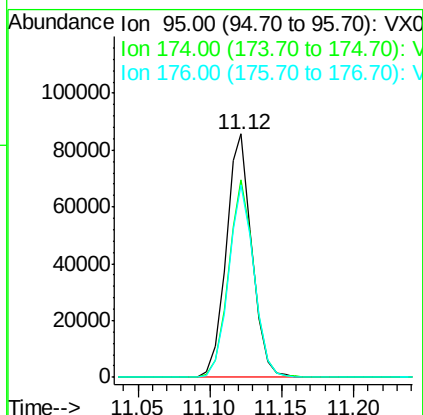
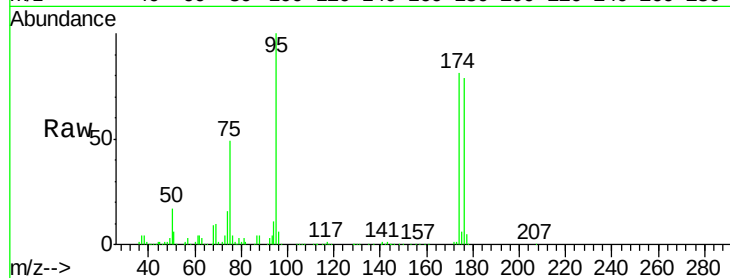




#60
4-Bromofluorobenzene
Concen: 26.725 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX019481.D
Acq: 19 Nov 2020 21:14

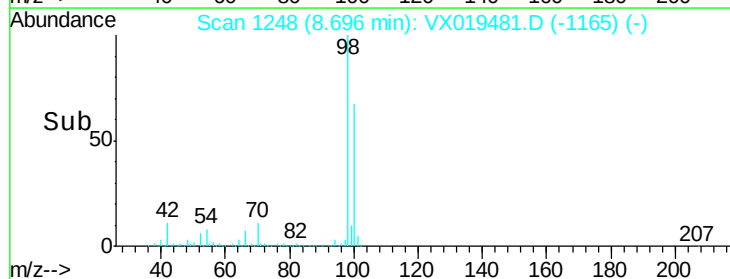
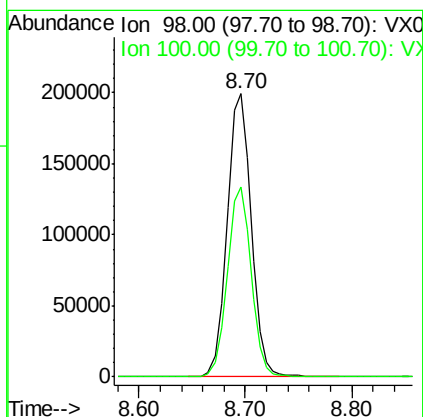
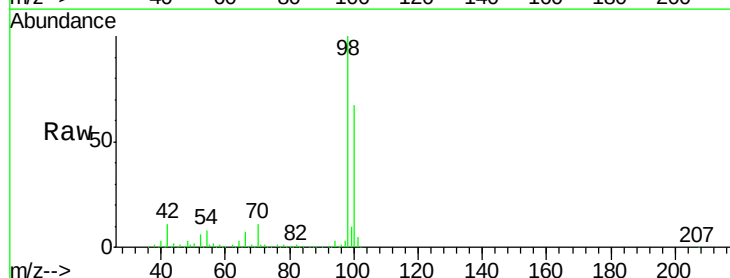
Instrument :
MSVOA_X
ClientSampleId :
TT-024-IDWGW-20201118

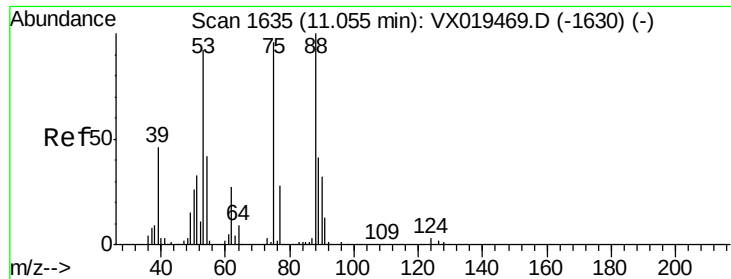
Tot Ion: 95 Resp: 107568
Ion Ratio Lower Upper
95 100
174 80.0 63.5 95.3
176 78.2 59.8 89.6



#63
Toluene-d8
Concen: 28.857 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.01 min
Lab File: VX019481.D
Acq: 19 Nov 2020 21:14

Tgt Ion: 98 Resp: 317455
Ion Ratio Lower Upper
98 100
100 66.3 53.6 80.4





#77
t-1,4-Dichloro-2-butene
Concen: 35.146 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.07 min
Lab File: VX019481.D
Acq: 19 Nov 2020 21:14

Instrument :
MSVOA_X
ClientSampleId :
TT-024-IDWGW-20201118

Tot Ion: 75 Resp: 53814
Ion Ratio Lower Upper
75 100
53 0.0 47.9 143.6#
89 0.0 21.4 64.2#

