

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX022120\
 Data File : VX014991.D
 Acq On : 21 Feb 2020 13:05
 Operator : JC/SP
 Sample : L1618-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TANK-MOAT-DISCHARGE-(EFFLUE

Quant Time: Feb 21 13:39:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X022120W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Feb 21 11:08:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	70545	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	372261	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	329652	30.00	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.05	65	147791	30.13	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.43%
60) 4-Bromofluorobenzene	11.13	95	143693	27.99	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.30%
63) Toluene-d8	8.71	98	433596	30.16	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.53%

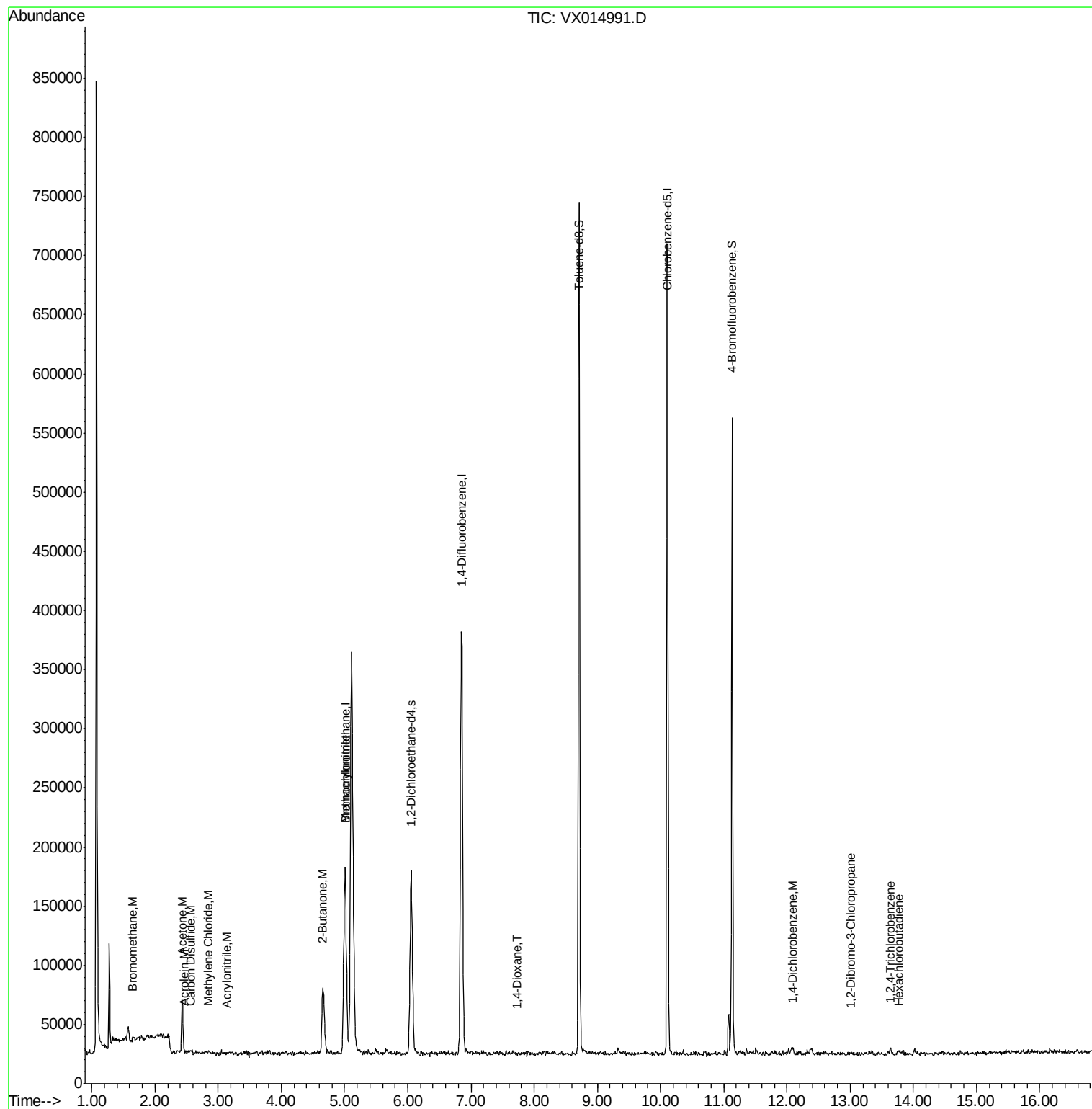
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.66	94	1799	0.59	ug/l	91
13) Acrolein	2.47	56	261	0.28	ug/l	86
14) Acrylonitrile	3.14	53	432	0.21	ug/l #	37
15) Acetone	2.43	58	15709	21.06	ug/l	99
16) Carbon Disulfide	2.57	76	3513	0.35	ug/l	96
18) Methylene Chloride	2.85	84	1309	0.31	ug/l #	91
30) 2-Butanone	4.65	43	102244	33.64	ug/l	99
35) Methacrylonitrile	5.01	41	841	0.27	ug/l #	29
45) 1,4-Dioxane	7.73	88	90	1.05	ug/l #	6
84) 1,4-Dichlorobenzene	12.10	146	1802	0.20	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	384	0.30	ug/l #	8
89) 1,2,4-Trichlorobenzene	13.64	180	1736	0.28	ug/l	88
90) Hexachlorobutadiene	13.78	225	652	0.21	ug/l	93

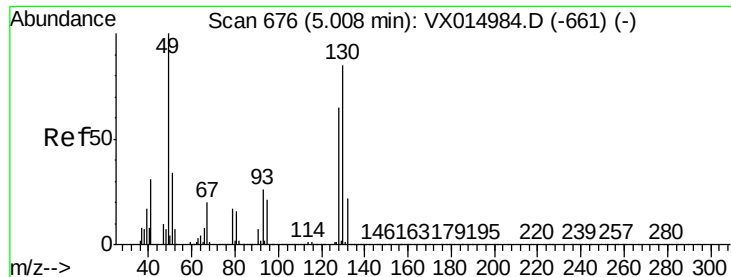
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX022120\
Data File : VX014991.D
Acq On : 21 Feb 2020 13:05
Operator : JC/SP
Sample : L1618-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TANK-MOAT-DISCHARGE-(EFFLUENT)

Quant Time: Feb 21 13:39:50 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\624X022120W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Feb 21 11:08:45 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 5.01 min Scan# 676

Delta R.T. 0.00 min

Lab File: VX014991.D

Acq: 21 Feb 2020 13:05

Instrument :

MSVOA_X

ClientSampleId :

TANK-MOAT-DISCHARGE-(EFFLUE

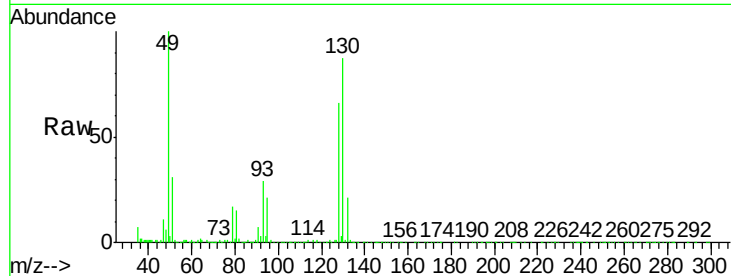
Tgt Ion:128 Resp: 70545

Ion Ratio Lower Upper

128 100

49 151.1 0.0 384.7

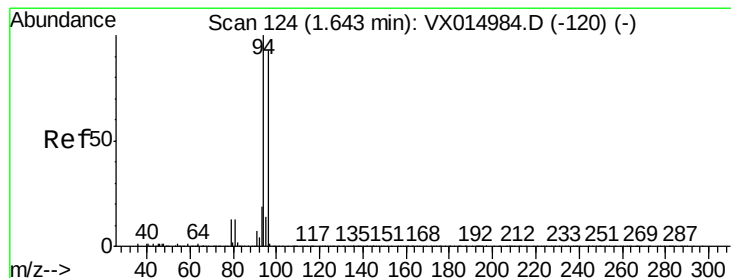
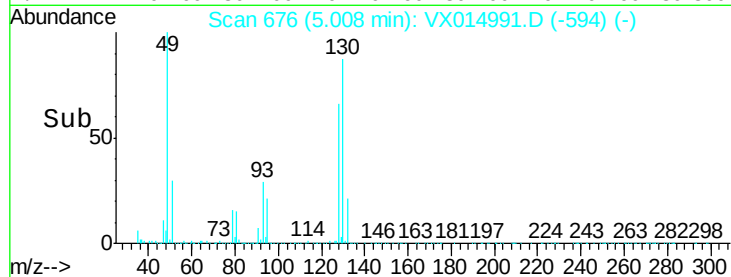
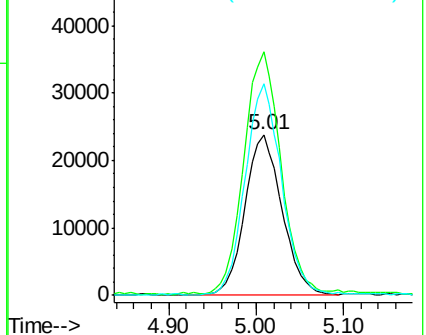
130 128.7 0.0 330.8



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



#5

Bromomethane

Concen: 0.59 ug/l

RT: 1.66 min Scan# 126

Delta R.T. 0.01 min

Lab File: VX014991.D

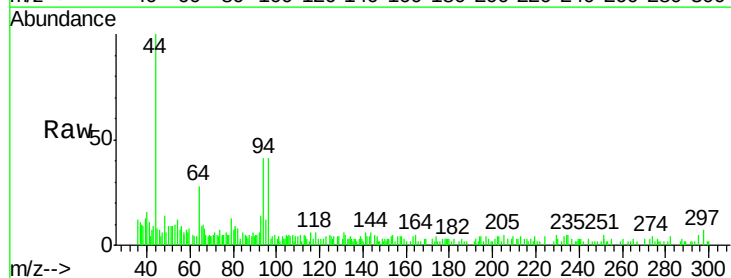
Acq: 21 Feb 2020 13:05

Tgt Ion: 94 Resp: 1799

Ion Ratio Lower Upper

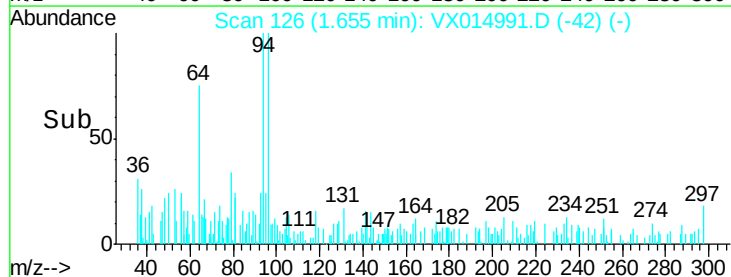
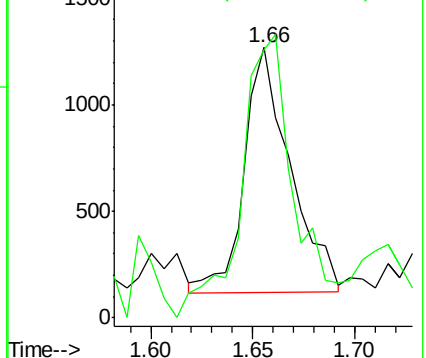
94 100

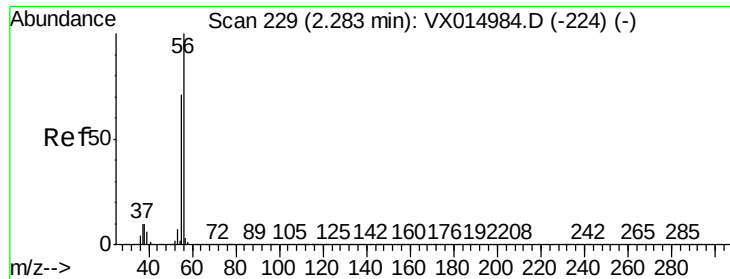
96 102.1 74.6 112.0



Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0





#13

Acrolein

Concen: 0.28 ug/l

RT: 2.47 min Scan# 260

Delta R.T. 0.19 min

Lab File: VX014991.D

Acq: 21 Feb 2020 13:05

Instrument :

MSVOA_X

ClientSampleId :

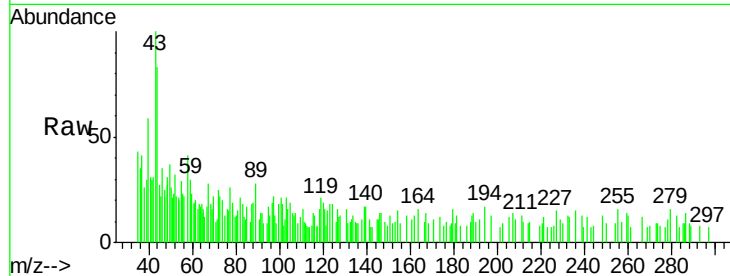
TANK-MOAT-DISCHARGE-(EFFLUE

Tgt Ion: 56 Resp: 261

Ion Ratio Lower Upper

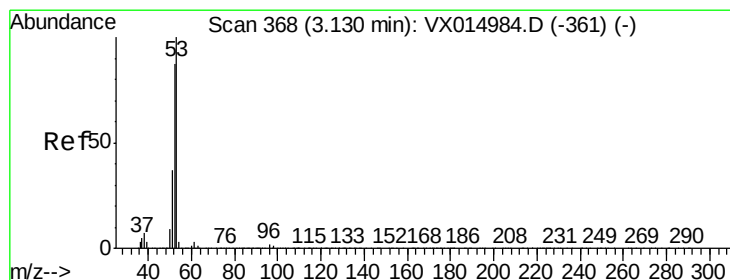
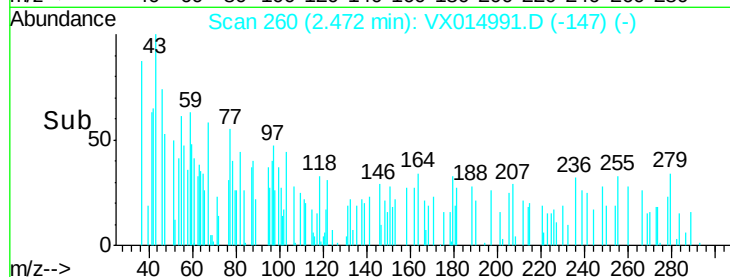
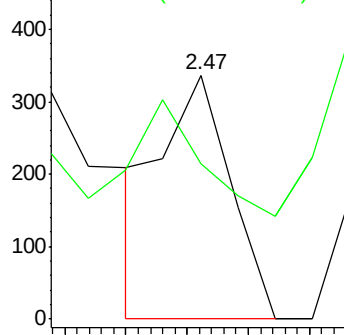
56 100

55 81.6 56.2 84.2



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#14

Acrylonitrile

Concen: 0.21 ug/l

RT: 3.14 min Scan# 369

Delta R.T. 0.01 min

Lab File: VX014991.D

Acq: 21 Feb 2020 13:05

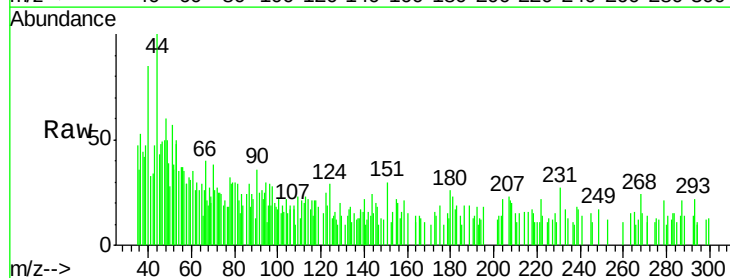
Tgt Ion: 53 Resp: 432

Ion Ratio Lower Upper

53 100

52 22.0 41.5 124.6#

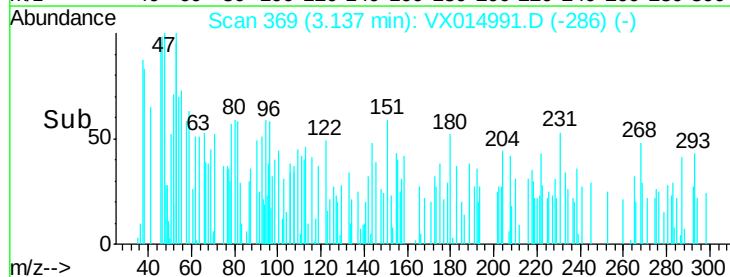
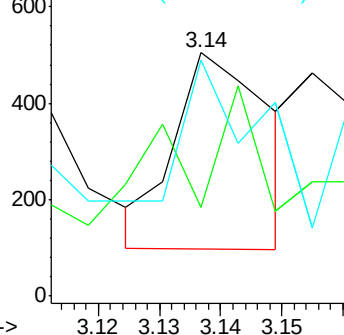
51 66.2 18.1 54.4#

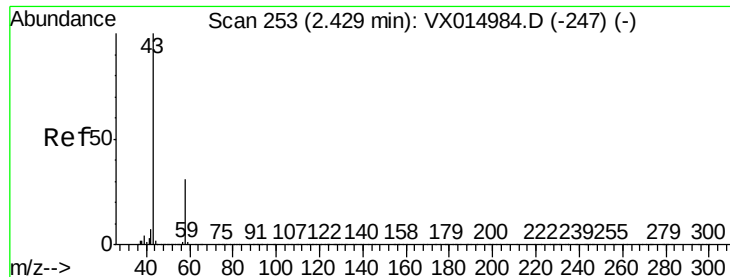


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#15

Acetone

Concen: 21.06 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014991.D

Acq: 21 Feb 2020 13:05

Instrument :

MSVOA_X

ClientSampleId :

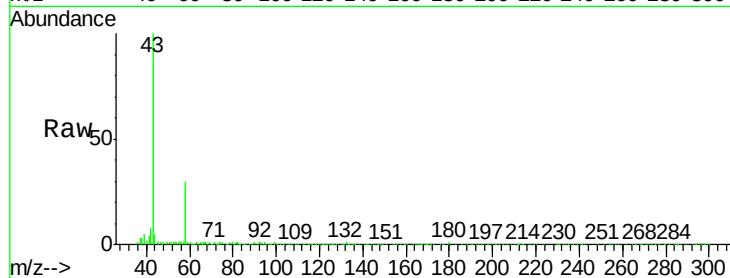
TANK-MOAT-DISCHARGE-(EFFLUE

Tgt Ion: 58 Resp: 15709

Ion Ratio Lower Upper

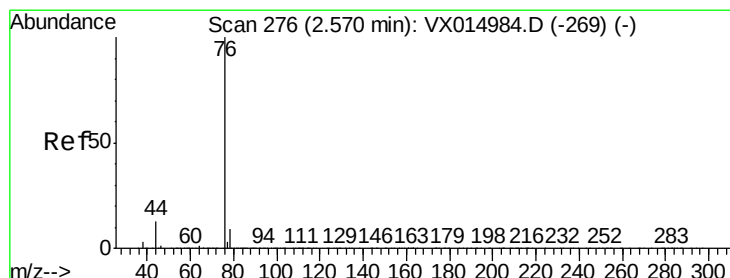
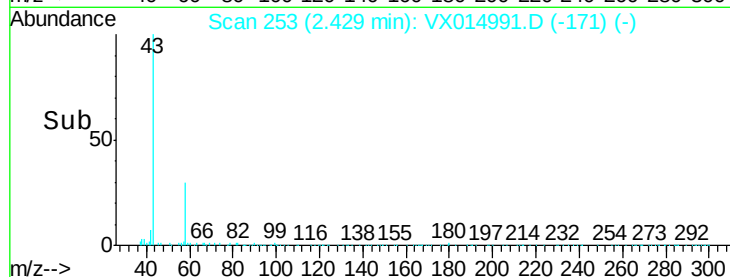
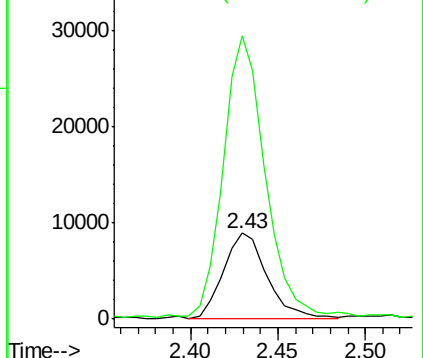
58 100

43 325.1 257.7 386.5



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#16

Carbon Disulfide

Concen: 0.35 ug/l

RT: 2.57 min Scan# 276

Delta R.T. 0.00 min

Lab File: VX014991.D

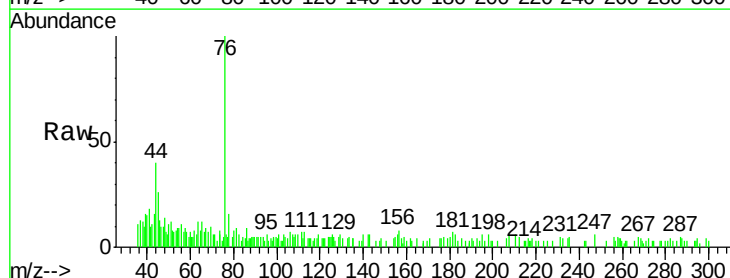
Acq: 21 Feb 2020 13:05

Tgt Ion: 76 Resp: 3513

Ion Ratio Lower Upper

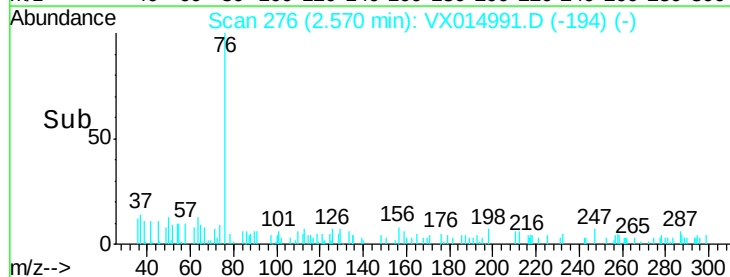
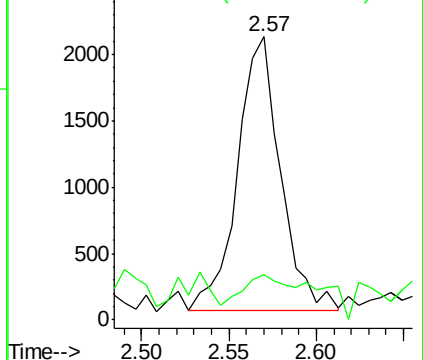
76 100

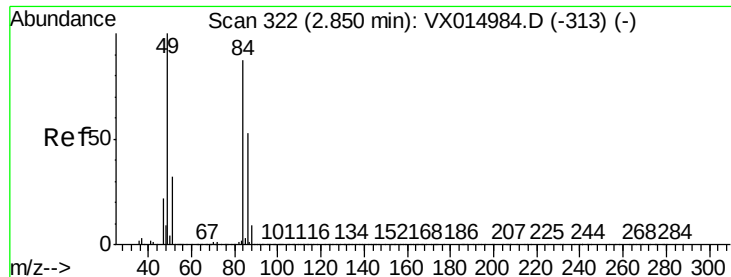
78 7.4 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0

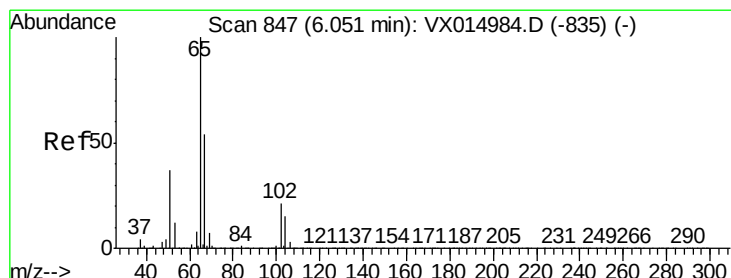
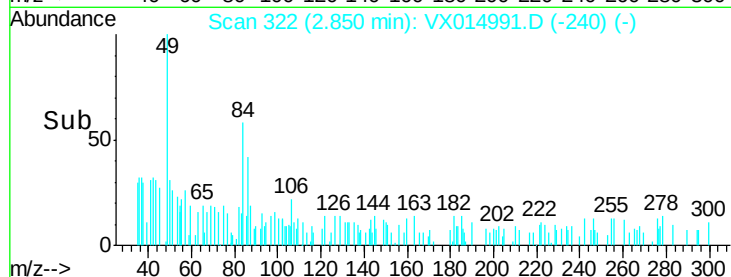
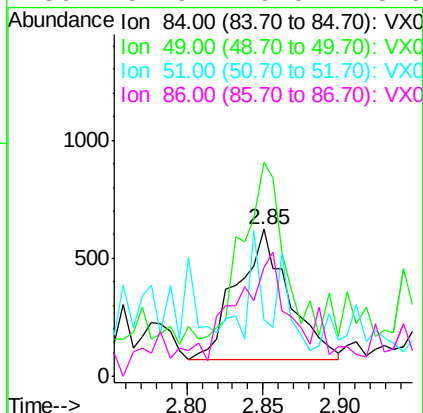
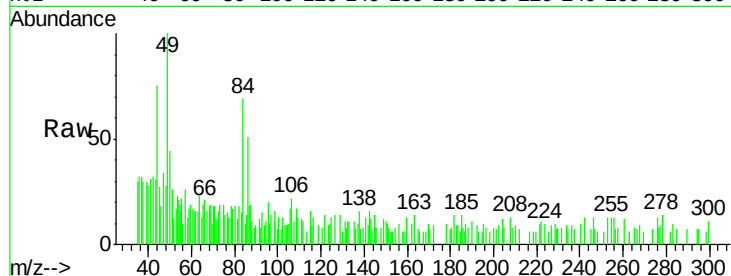




#18
Methylene Chloride
Concen: 0.31 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014991.D
Acq: 21 Feb 2020 13:05

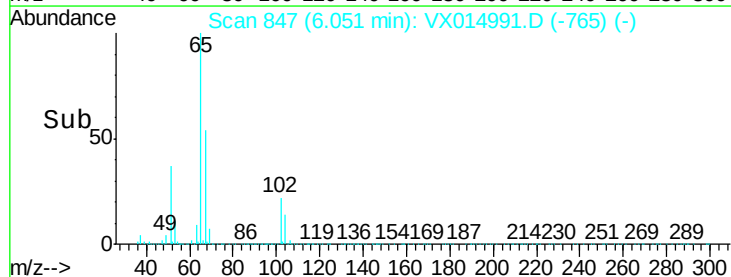
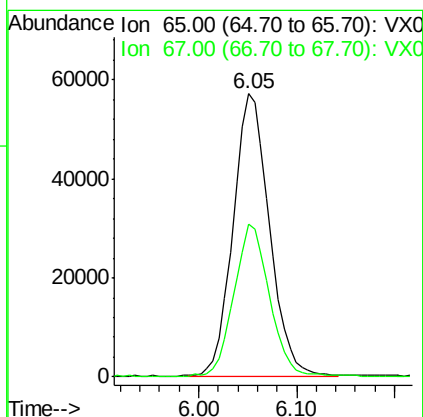
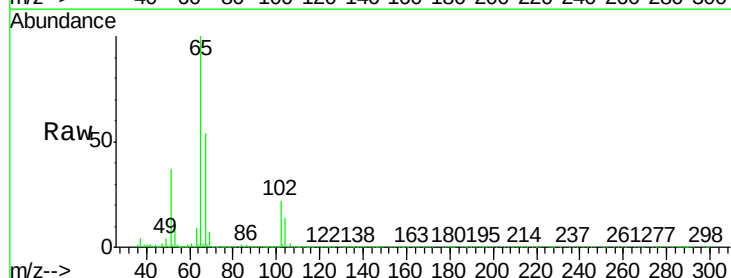
Instrument :
MSVOA_X
ClientSampleId :
TANK-MOAT-DISCHARGE-(EFFLUE

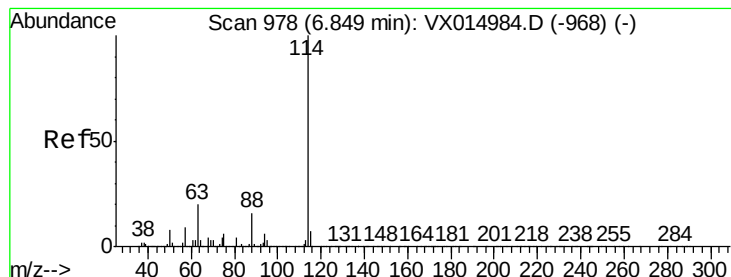
Tgt Ion: 84 Resp: 1309
Ion Ratio Lower Upper
84 100
49 115.0 92.2 138.2
51 13.6 29.7 44.5#
86 54.9 49.0 73.6



#27
1,2-Dichloroethane-d4
Concen: 30.13 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX014991.D
Acq: 21 Feb 2020 13:05

Tgt Ion: 65 Resp: 147791
Ion Ratio Lower Upper
65 100
67 51.9 41.9 62.9





#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 6.86 min Scan# 979

Delta R.T. 0.01 min

Lab File: VX014991.D

Acq: 21 Feb 2020 13:05

Instrument :

MSVOA_X

ClientSampleId :

TANK-MOAT-DISCHARGE-(EFFLUE

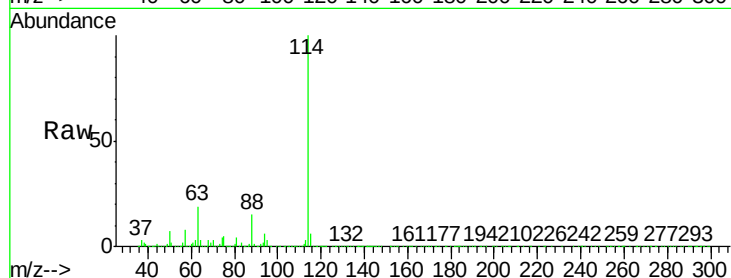
Tgt Ion:114 Resp: 372261

Ion Ratio Lower Upper

114 100

63 20.0 15.6 23.4

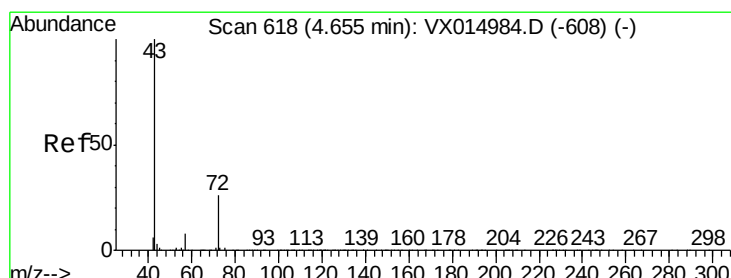
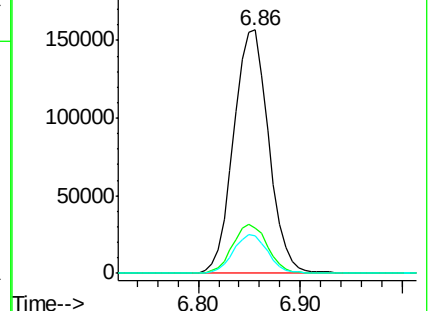
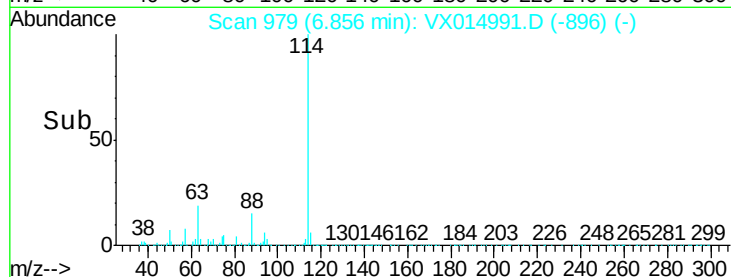
88 15.9 12.2 18.2



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



#30

2-Butanone

Concen: 33.64 ug/l

RT: 4.65 min Scan# 618

Delta R.T. 0.00 min

Lab File: VX014991.D

Acq: 21 Feb 2020 13:05

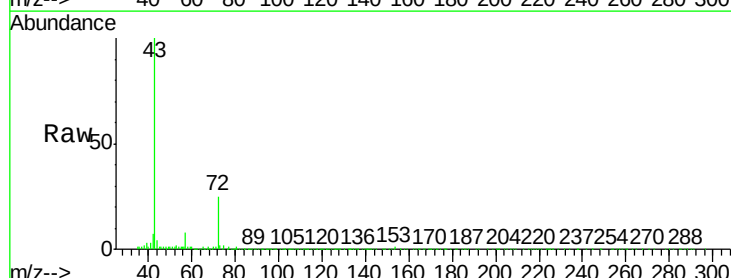
Tgt Ion: 43 Resp: 102244

Ion Ratio Lower Upper

43 100

57 7.5 6.5 9.7

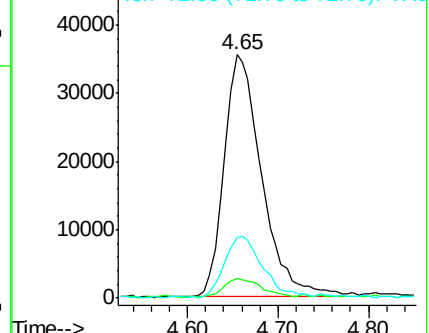
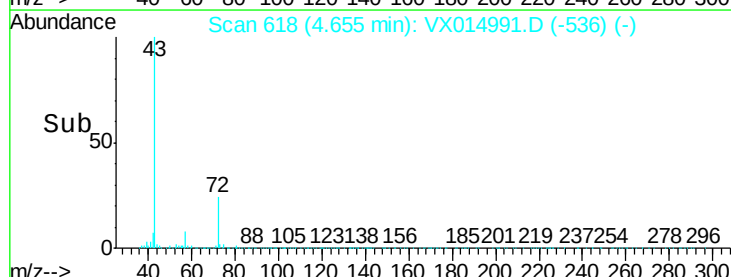
72 25.0 20.3 30.5

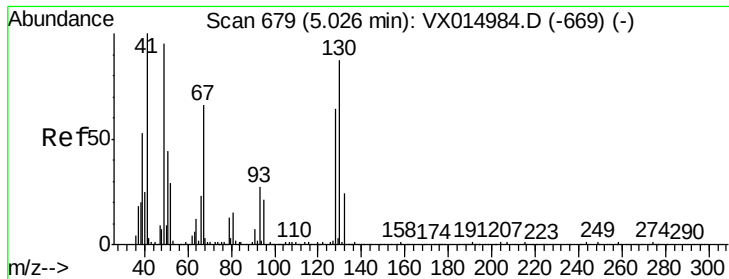


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

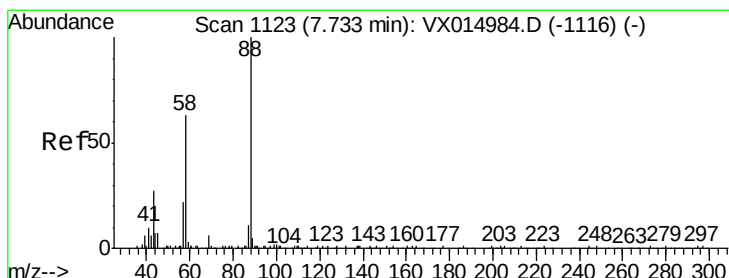
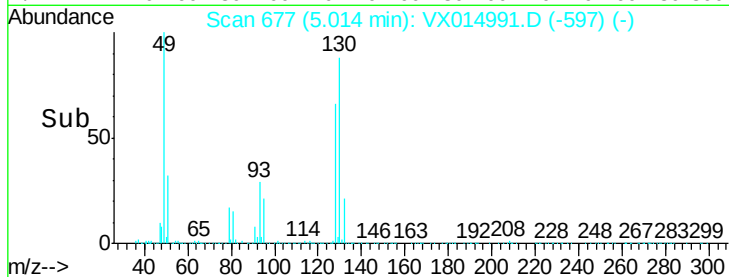
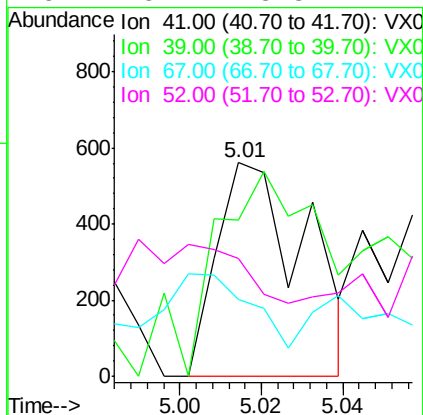
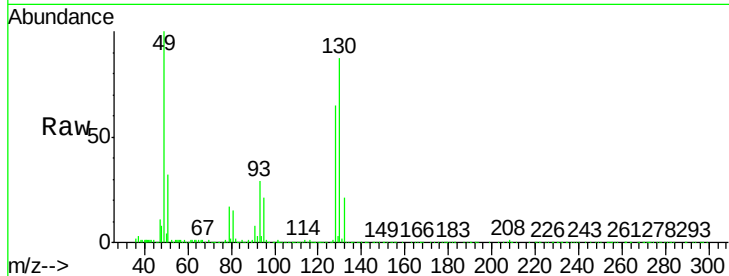




#35
Methacrylonitrile
Concen: 0.27 ug/l
RT: 5.01 min Scan# 677
Delta R.T. -0.01 min
Lab File: VX014991.D
Acq: 21 Feb 2020 13:05

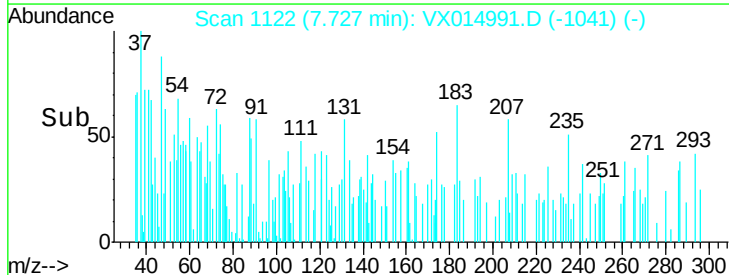
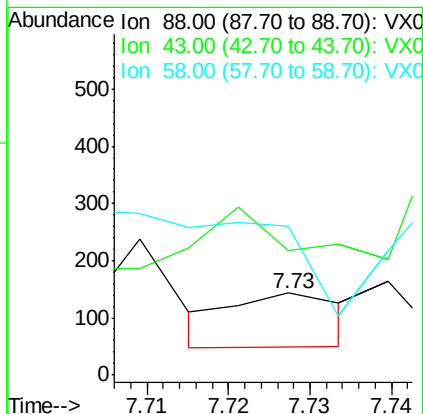
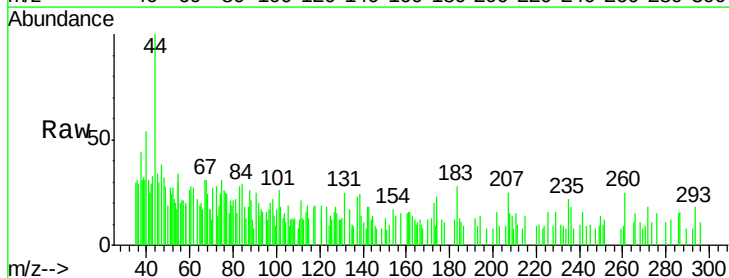
Instrument :
MSVOA_X
ClientSampleId :
TANK-MOAT-DISCHARGE-(EFFLUE

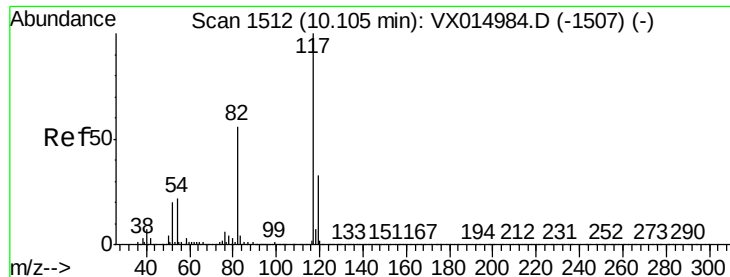
Tgt Ion:	41	Resp:	841
Ion	Ratio	Lower	Upper
41	100		
39	116.1	25.9	77.7#
67	0.0	32.7	98.1#
52	25.4	13.8	41.4



#45
1,4-Dioxane
Concen: 1.05 ug/l
RT: 7.73 min Scan# 1122
Delta R.T. -0.01 min
Lab File: VX014991.D
Acq: 21 Feb 2020 13:05

Tgt Ion:	88	Resp:	90
Ion	Ratio	Lower	Upper
88	100		
43	95.6	25.4	38.2#
58	0.0	55.8	83.8#

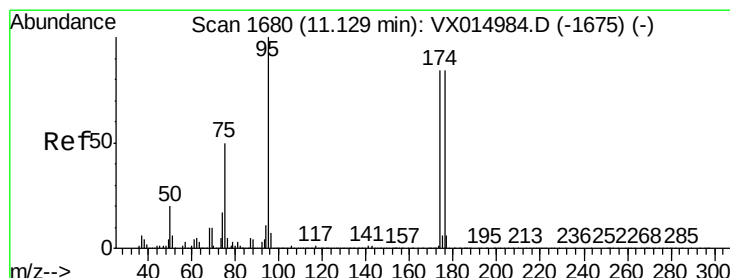
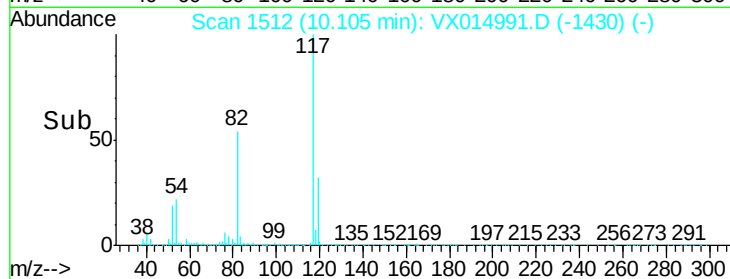
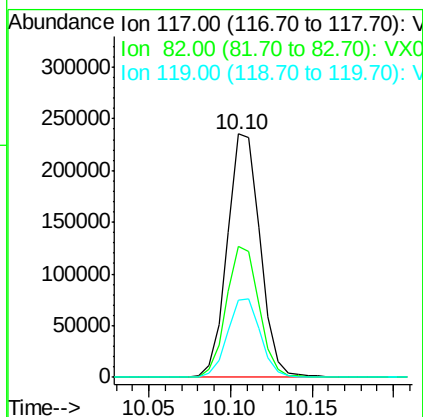
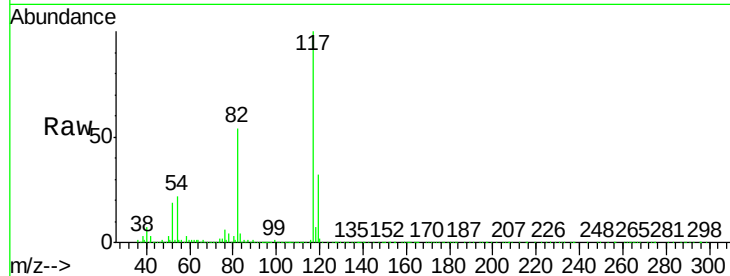




#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 10.10 min Scan# 1512
Delta R.T. 0.00 min
Lab File: VX014991.D
Acq: 21 Feb 2020 13:05

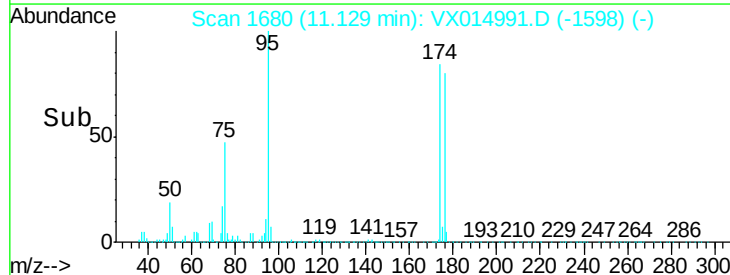
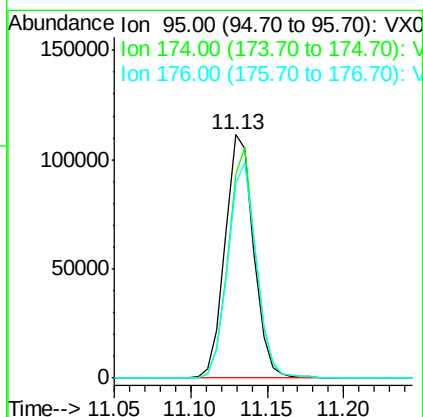
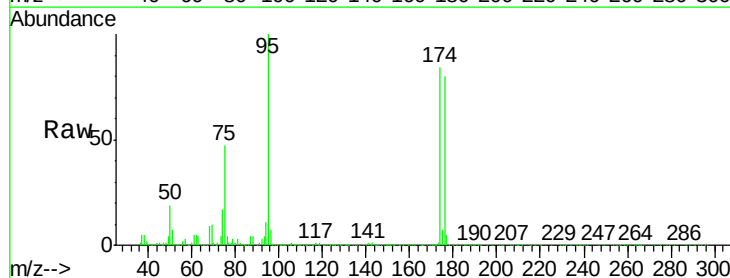
Instrument :
MSVOA_X
ClientSampleId :
TANK-MOAT-DISCHARGE-(EFFLUE

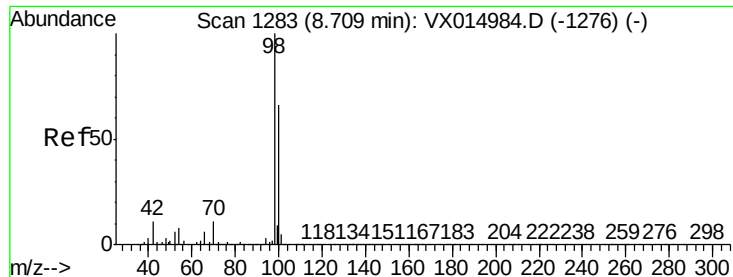
Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.6	43.4	65.2
119	32.3	26.0	39.0



#60
4-Bromofluorobenzene
Concen: 27.99 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX014991.D
Acq: 21 Feb 2020 13:05

Tgt Ion	Ratio	Lower	Upper
95	100		
174	92.0	72.3	108.5
176	87.6	72.0	108.0

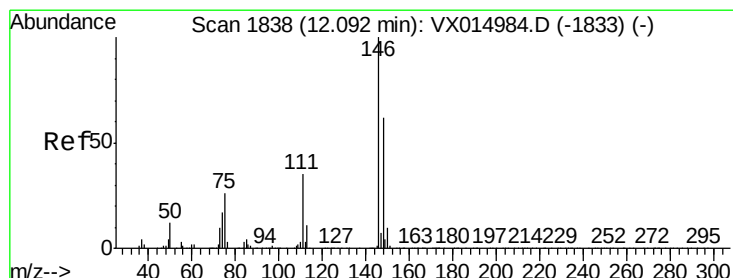
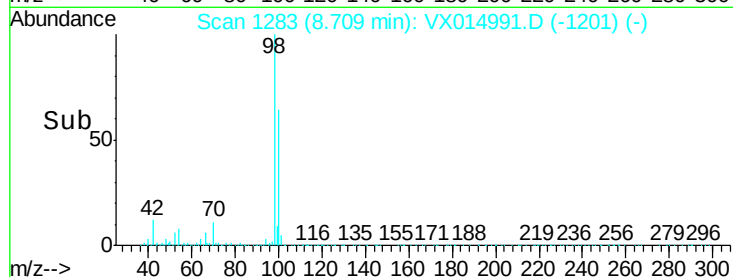
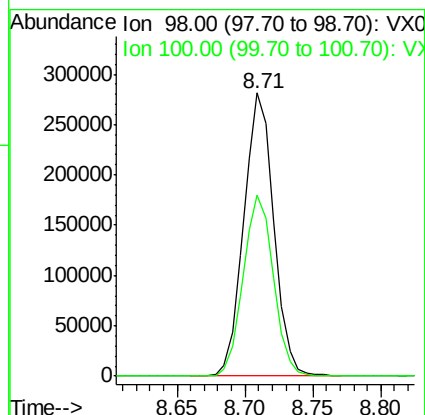
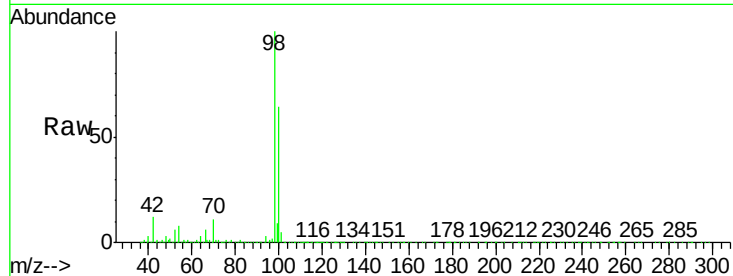




#63
Toluene-d8
Concen: 30.16 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX014991.D
Acq: 21 Feb 2020 13:05

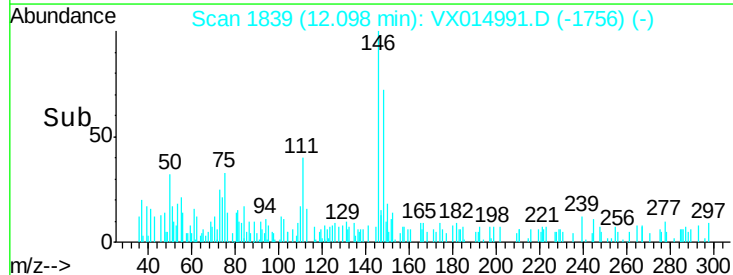
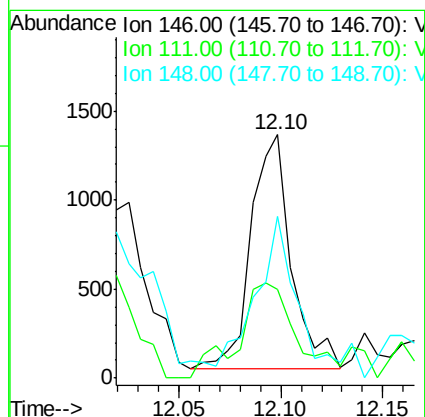
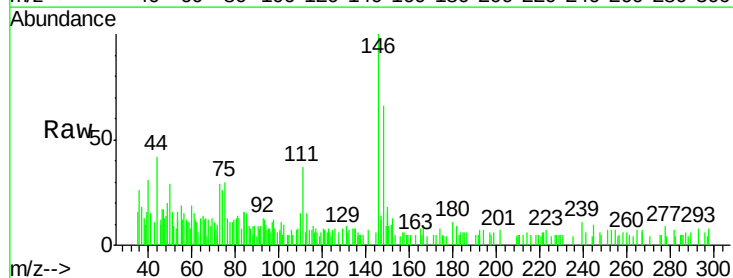
Instrument :
MSVOA_X
ClientSampleId :
TANK-MOAT-DISCHARGE-(EFFLUE

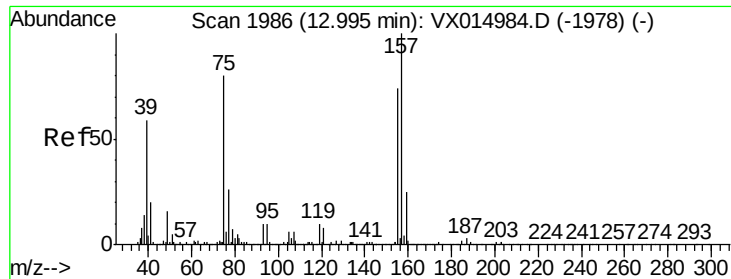
Tgt Ion: 98 Resp: 433596
Ion Ratio Lower Upper
98 100
100 64.4 52.8 79.2



#84
1,4-Dichlorobenzene
Concen: 0.20 ug/l
RT: 12.10 min Scan# 1839
Delta R.T. 0.01 min
Lab File: VX014991.D
Acq: 21 Feb 2020 13:05

Tgt Ion: 146 Resp: 1802
Ion Ratio Lower Upper
146 100
111 37.0 17.8 53.5
148 63.5 31.4 94.2

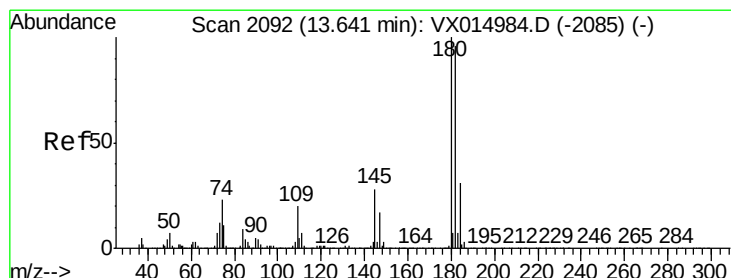
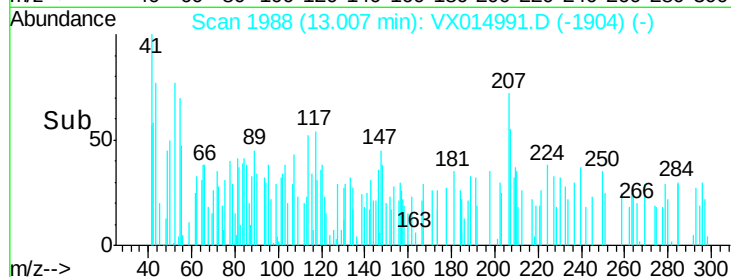
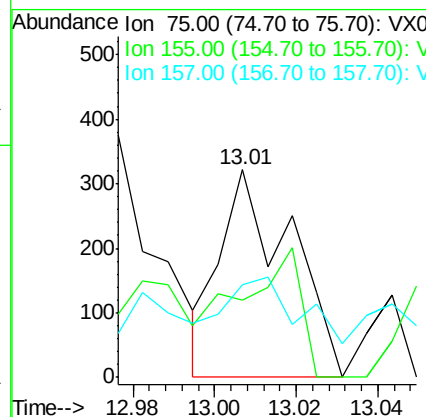
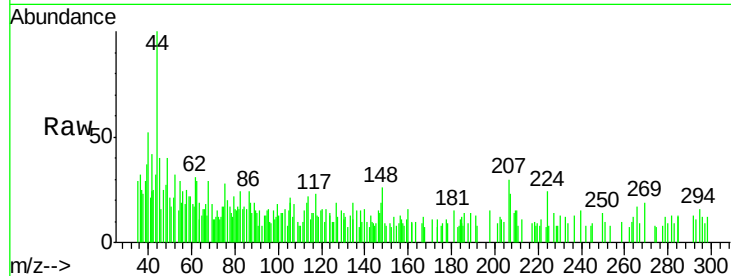




#88
 1,2-Dibromo-3-Chloropropane
 Concen: 0.30 ug/l
 RT: 13.01 min Scan# 1988
 Delta R.T. 0.01 min
 Lab File: VX014991.D
 Acq: 21 Feb 2020 13:05

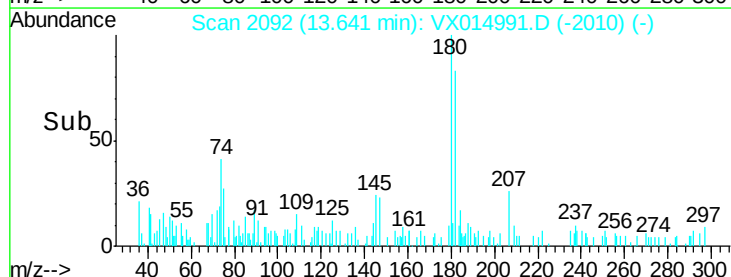
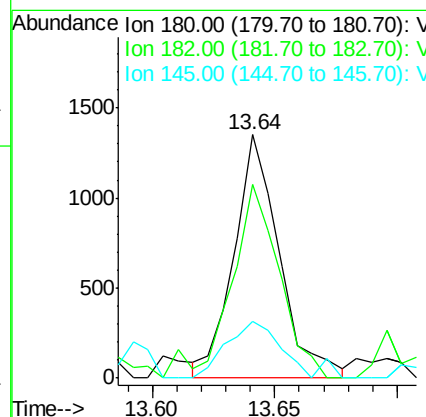
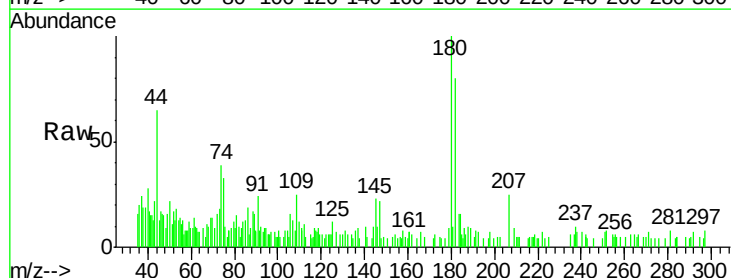
Instrument :
 MSVOA_X
 ClientSampleId :
 TANK-MOAT-DISCHARGE-(EFFLUE

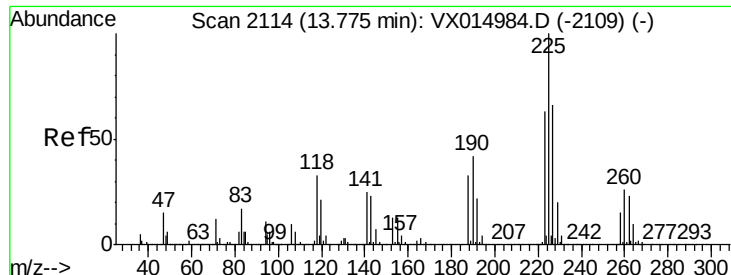
Tgt Ion: 75 Resp: 384
 Ion Ratio Lower Upper
 75 100
 155 23.7 74.5 111.7#
 157 0.0 96.2 144.4#



#89
 1,2,4-Trichlorobenzene
 Concen: 0.28 ug/l
 RT: 13.64 min Scan# 2092
 Delta R.T. 0.00 min
 Lab File: VX014991.D
 Acq: 21 Feb 2020 13:05

Tgt Ion: 180 Resp: 1736
 Ion Ratio Lower Upper
 180 100
 182 80.8 76.4 114.6
 145 27.4 21.8 32.6





#90

Hexachlorobutadiene

Concen: 0.21 ug/l

RT: 13.78 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VX014991.D

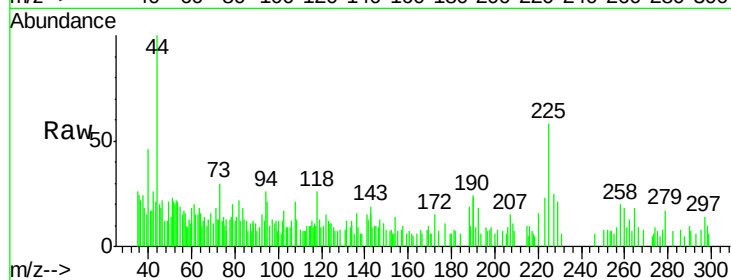
Acq: 21 Feb 2020 13:05

Instrument :

MSVOA_X

ClientSampleId :

TANK-MOAT-DISCHARGE-(EFFLUE



Tgt Ion:	225	Resp:	652
Ion	Ratio	Lower	Upper
225	100		
223	69.8	0.0	132.0
227	73.6	0.0	131.0

