

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121719\
 Data File : VX014075.D
 Acq On : 18 Dec 2019 02:14
 Operator : JC/SP
 Sample : K6353-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TT-012-IDWGW-20191216

Quant Time: Dec 18 07:23:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 13 01:35:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	92714	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	513918	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	435296	30.00	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.06	65	202324	30.47	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.57%
60) 4-Bromofluorobenzene	11.13	95	185545	26.40	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	88.00%
63) Toluene-d8	8.71	98	606077	31.15	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.83%

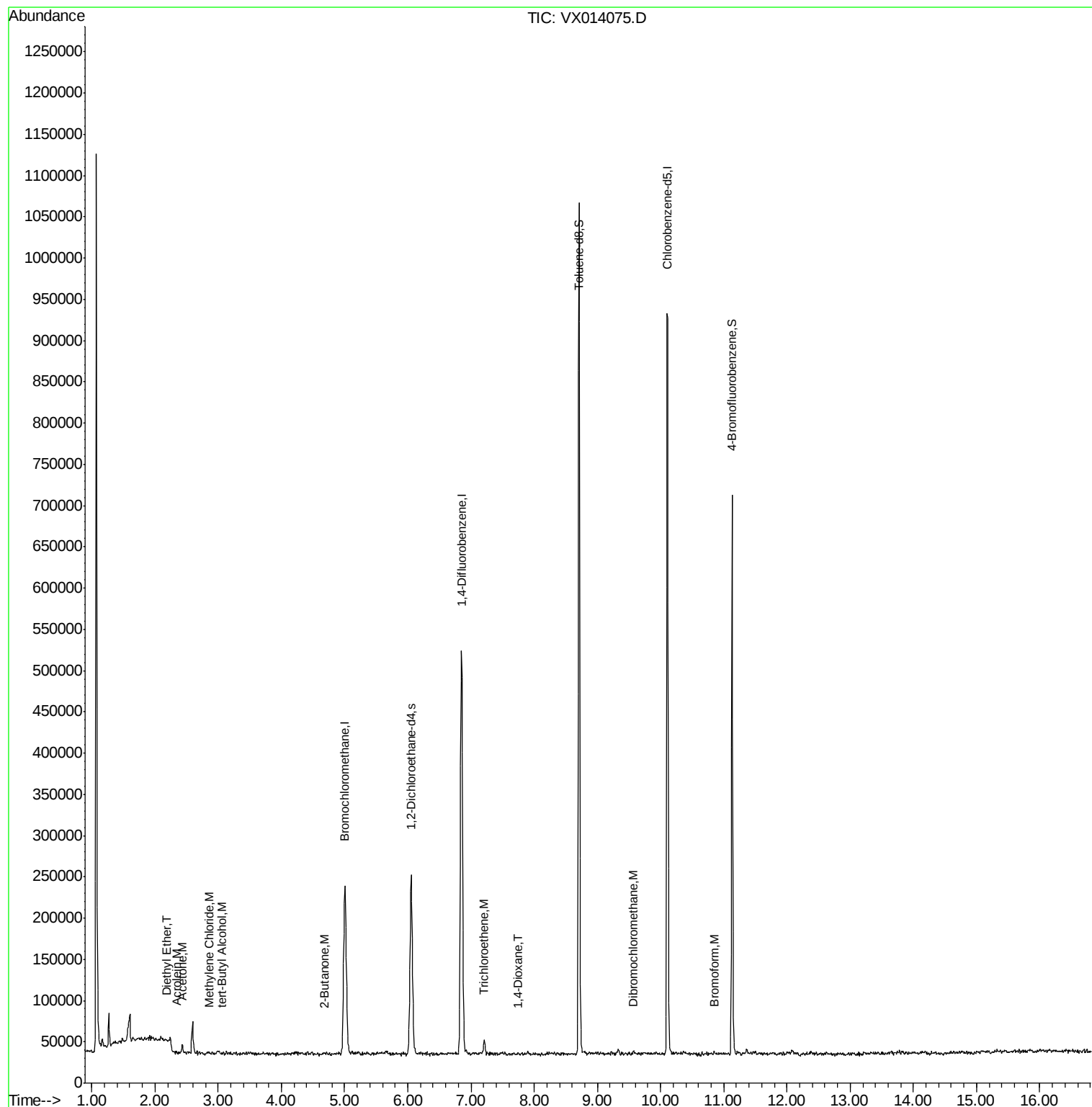
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
8) Diethyl Ether	2.19	74	1200	0.310	ug/l	24
13) Acrolein	2.34	56	498	0.511	ug/l	98
15) Acetone	2.44	58	3132	3.393	ug/l	94
18) Methylene Chloride	2.85	84	1395	0.219	ug/l #	62
23) tert-Butyl Alcohol	3.05	59	492	0.399	ug/l #	23
30) 2-Butanone	4.67	43	1000	0.229	ug/l #	75
37) Trichloroethene	7.21	130	7088	1.125	ug/l	87
45) 1,4-Dioxane	7.73	88	213	1.618	ug/l #	1
53) Dibromochloromethane	9.57	129	1872	0.316	ug/l	97
56) Bromoform	10.85	173	2180	0.472	ug/l #	91

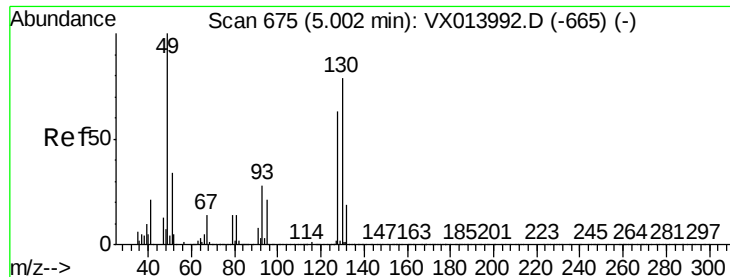
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Dec 13 01:35:34 2019
Response via : Initial Calibration



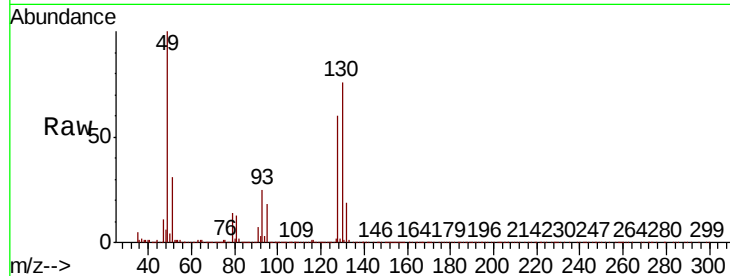


#1

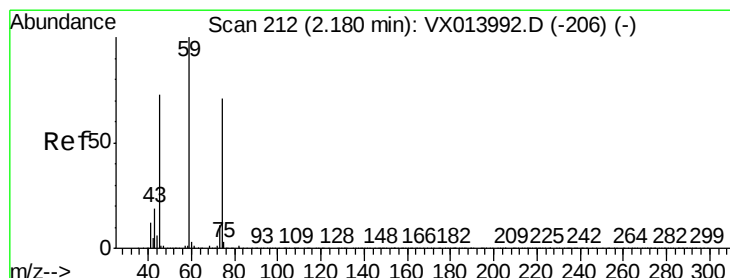
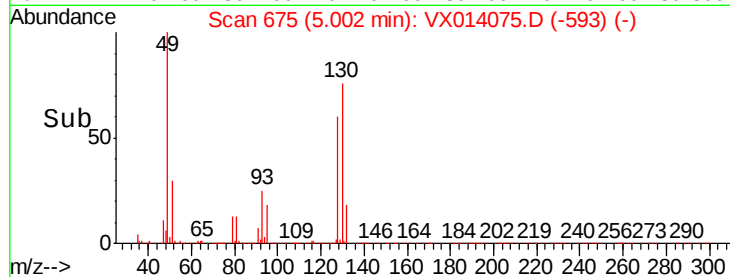
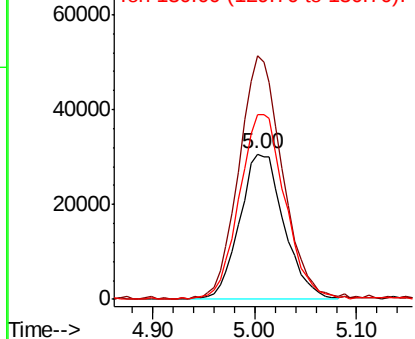
Bromochloromethane
 Concen: 30.000 ug/l
 RT: 5.00 min Scan# 675
 Delta R.T. 0.00 min
 Lab File: VX014075.D
 Acq: 18 Dec 2019 02:14

Instrument :
 MSVOA_X
 ClientSampleId :
 TT-012-IDWGW-20191216

Tot Ion:128 Resp: 92714
 Ion Ratio Lower Upper
 128 100
 49 163.0 0.0 405.0
 130 130.1 0.0 321.5



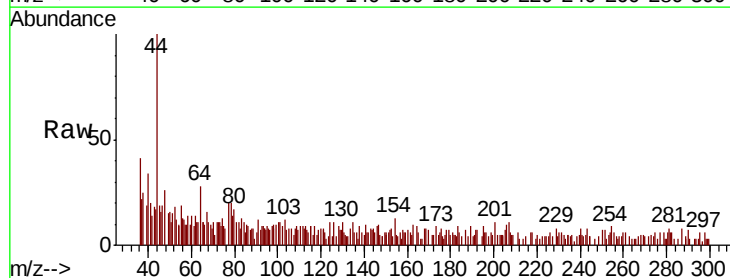
Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VX0
 Ion 130.00 (129.70 to 130.70): V



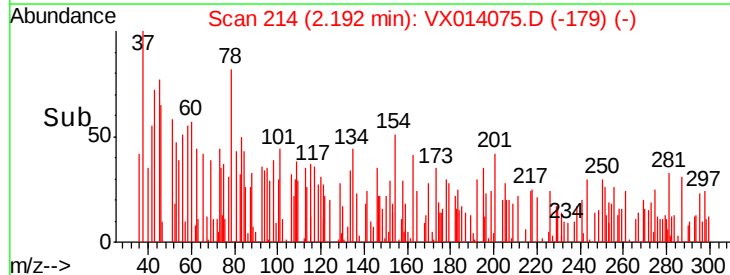
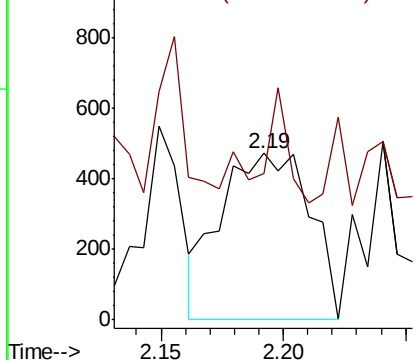
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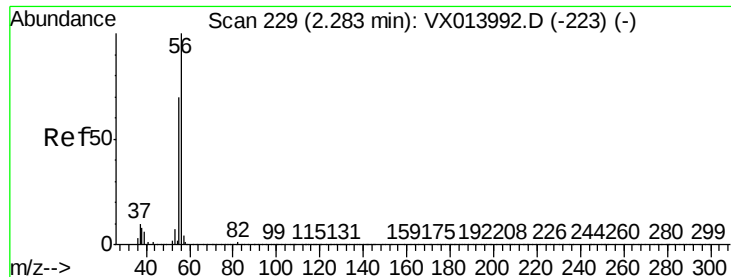
Diethyl Ether
 Concen: 0.310 ug/l
 RT: 2.19 min Scan# 214
 Delta R.T. 0.01 min
 Lab File: VX014075.D
 Acq: 18 Dec 2019 02:14

Tgt Ion: 74 Resp: 1200
 Ion Ratio Lower Upper
 74 100
 45 25.5 20.6 185.0



Abundance Ion 74.00 (73.70 to 74.70): VX0
 Ion 45.00 (44.70 to 45.70): VX0





#13

Acrolein

Concen: 0.511 ug/l

RT: 2.34 min Scan# 238

Delta R.T. 0.06 min

Lab File: VX014075.D

Acq: 18 Dec 2019 02:14

Instrument :

MSVOA_X

ClientSampleId :

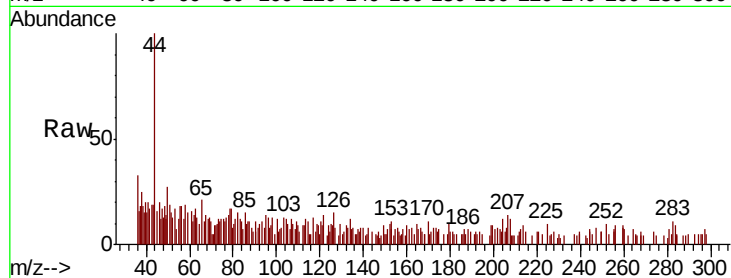
TT-012-IDW/GW-20191216

Tot Ion: 56 Resp: 498

Ion Ratio Lower Upper

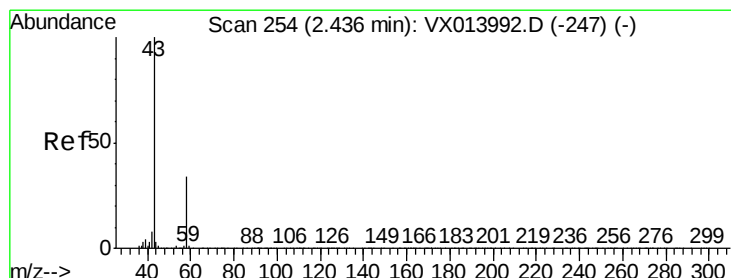
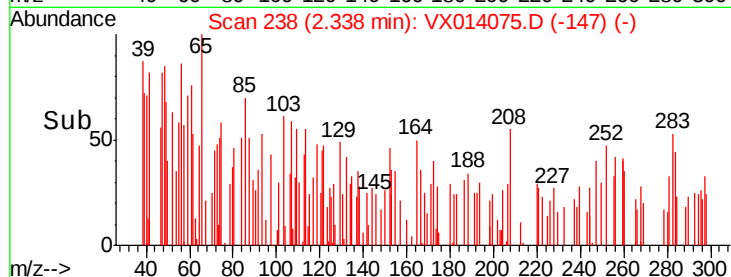
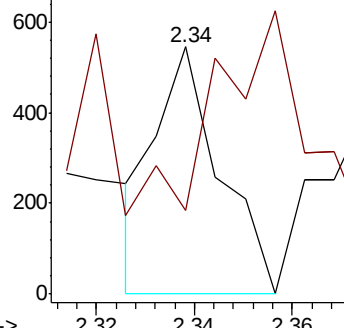
56 100

55 67.1 54.9 82.3



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acetone

Concen: 3.393 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX014075.D

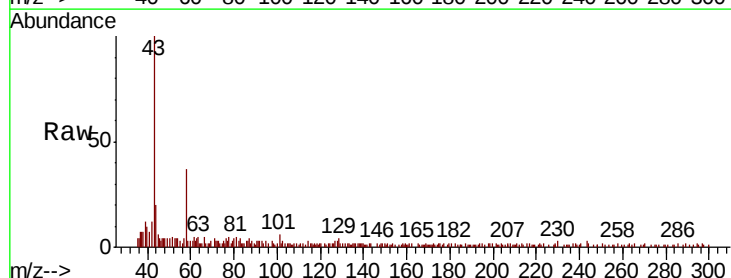
Acq: 18 Dec 2019 02:14

Tgt Ion: 58 Resp: 3132

Ion Ratio Lower Upper

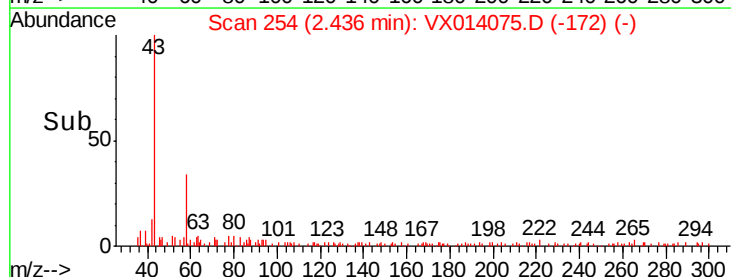
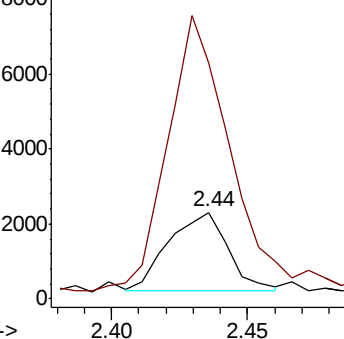
58 100

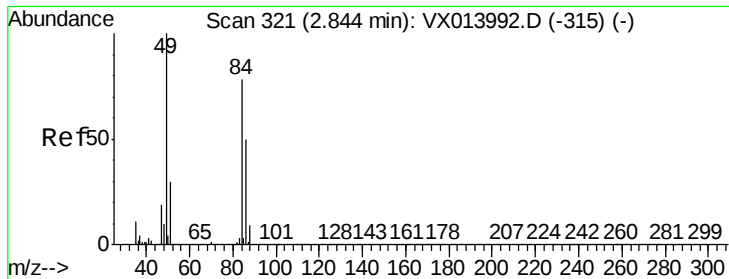
43 284.5 236.3 354.5



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

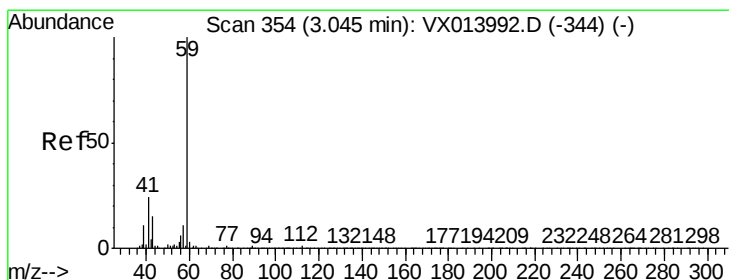
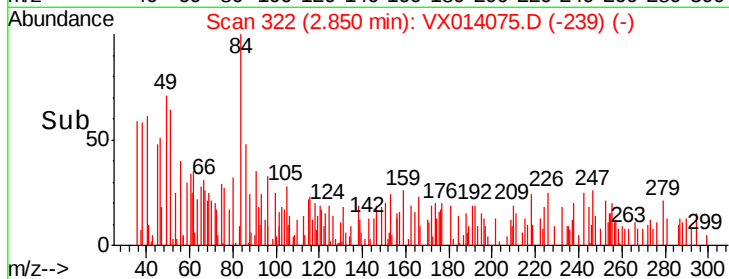
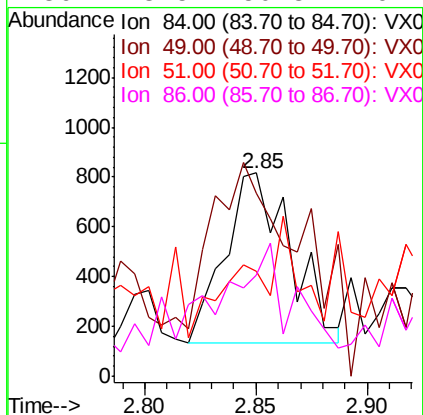
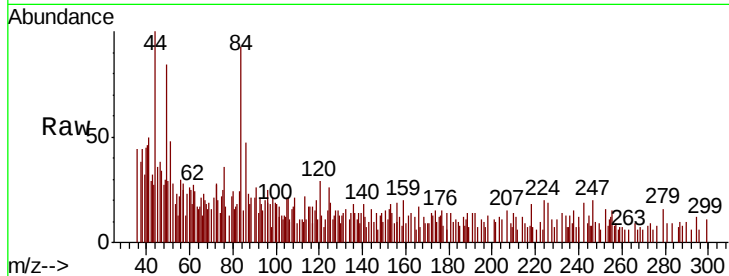




#18
Methvlene Chloride
Concen: 0.219 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX014075.D
Acq: 18 Dec 2019 02:14

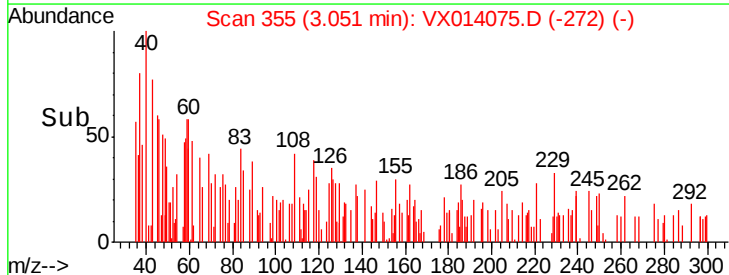
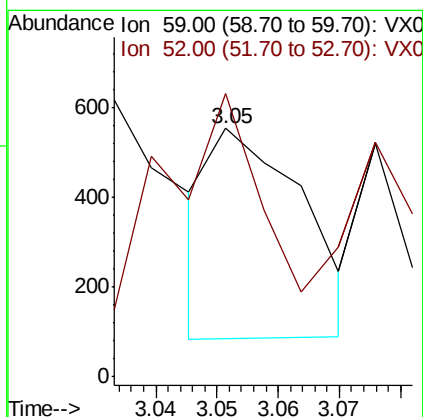
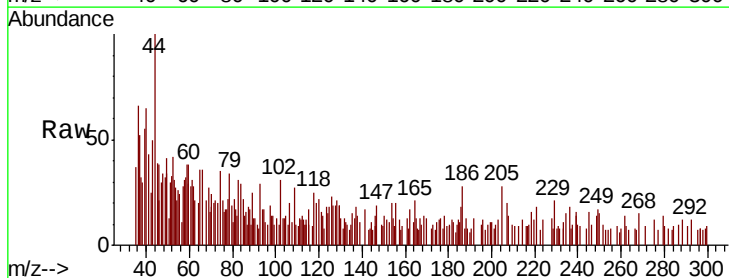
Instrument :
MSVOA_X
ClientSampleId :
TT-012-IDW/GW-20191216

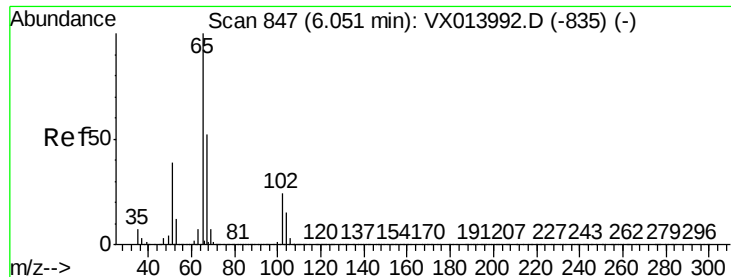
Tot Ion: 84 Resp: 1395
Ion Ratio Lower Upper
84 100
49 80.2 102.2 153.2#
51 8.5 31.4 47.0#
86 43.5 50.8 76.2#



#23
tert-Butyl Alcohol
Concen: 0.399 ug/l
RT: 3.05 min Scan# 355
Delta R.T. 0.01 min
Lab File: VX014075.D
Acq: 18 Dec 2019 02:14

Tgt Ion: 59 Resp: 492
Ion Ratio Lower Upper
59 100
52 99.0 0.2 0.2#

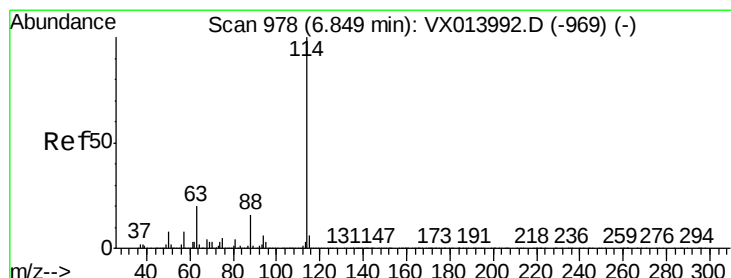
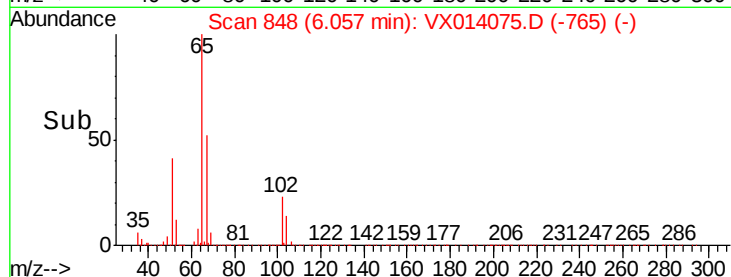
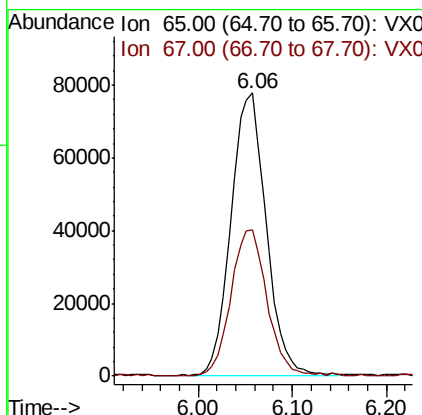
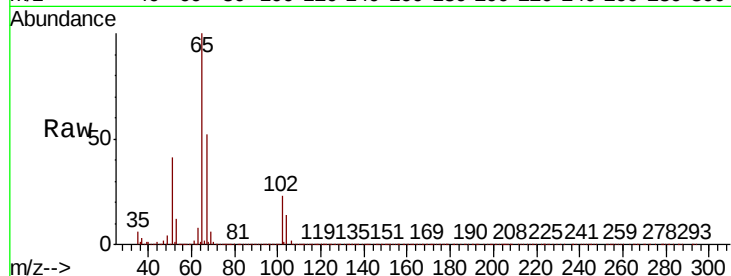




#27
 1,2-Dichloroethane-d4
 Concen: 30.471 ug/l
 RT: 6.06 min Scan# 848
 Delta R.T. 0.01 min
 Lab File: VX014075.D
 Acq: 18 Dec 2019 02:14

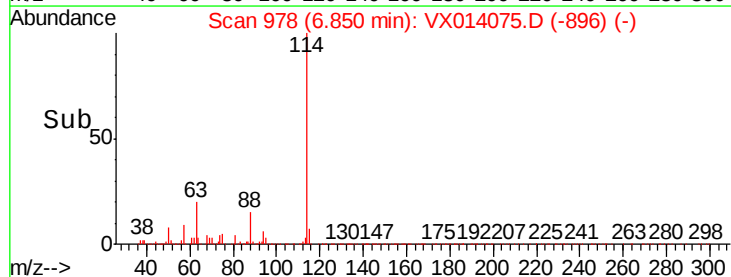
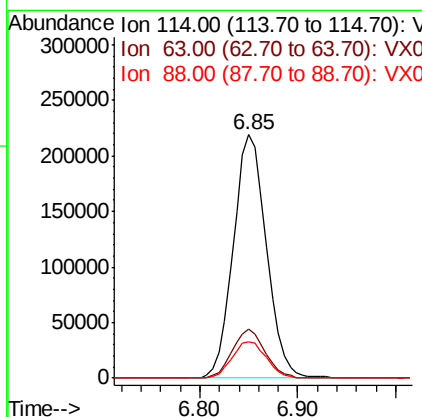
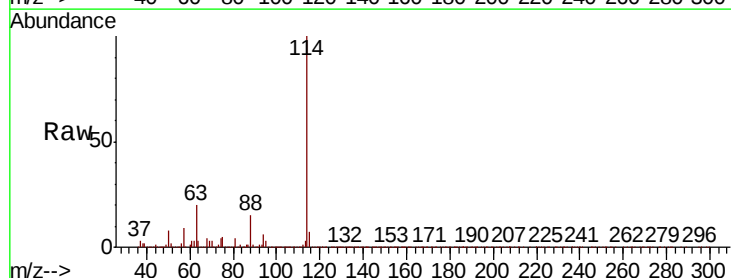
Instrument :
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 ClientSampleId :
 TT-012-IDWGW-20191216

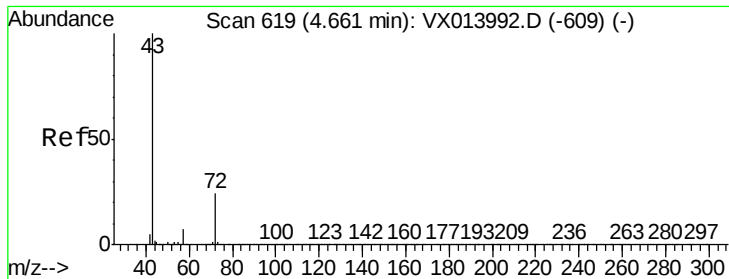
Tot Ion: 65 Resp: 202324
 Ion Ratio Lower Upper
 65 100
 67 53.2 43.1 64.7



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX014075.D
 Acq: 18 Dec 2019 02:14

Tgt Ion: 114 Resp: 513918
 Ion Ratio Lower Upper
 114 100
 63 19.8 16.1 24.1
 88 15.3 12.5 18.7

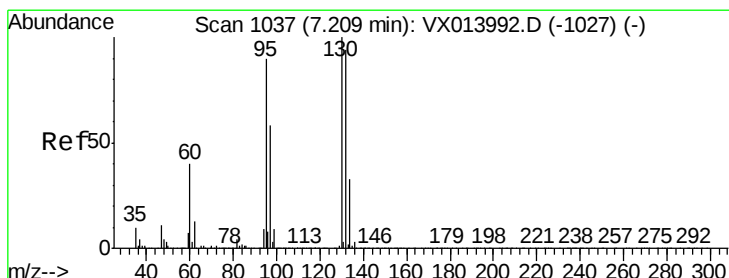
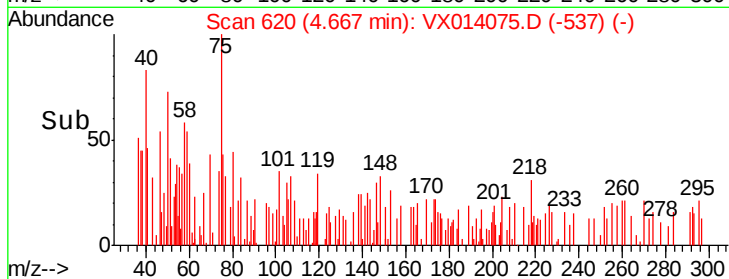
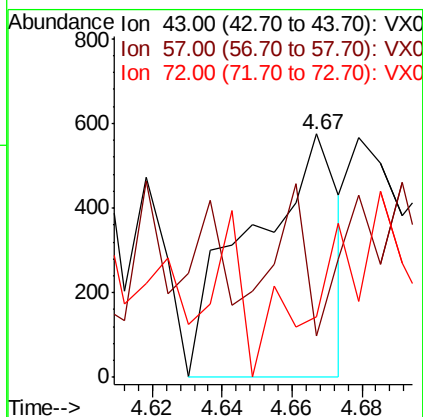
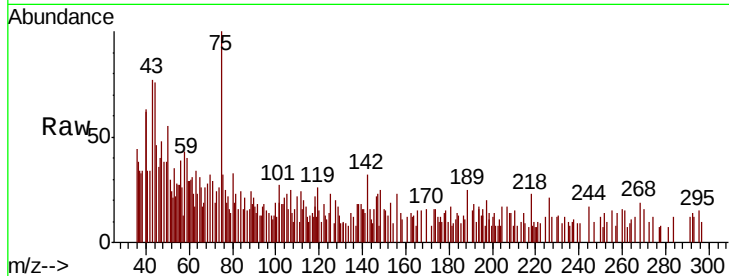




#30
2-Butanone
Concen: 0.229 ug/l
RT: 4.67 min Scan# 620
Delta R.T. 0.01 min
Lab File: VX014075.D
Acq: 18 Dec 2019 02:14

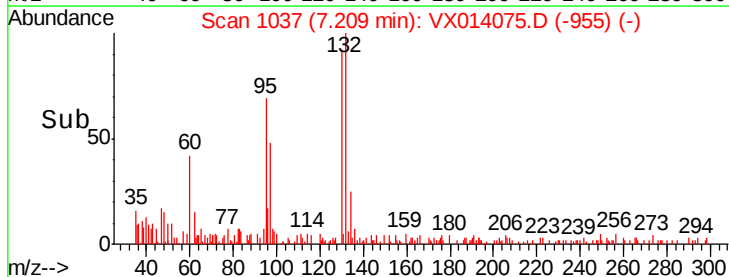
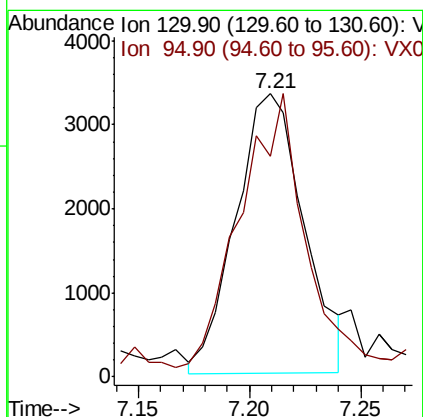
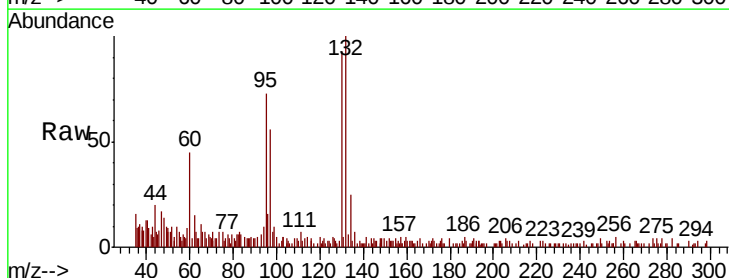
Instrument :
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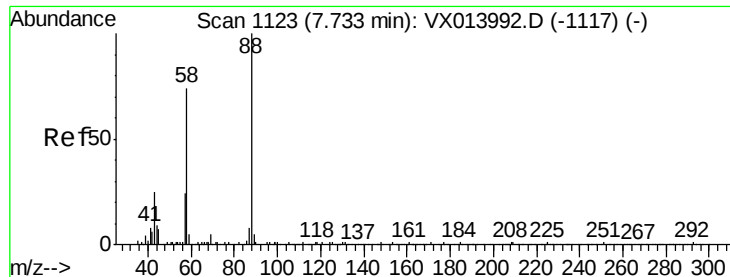
Tot Ion: 43 Resp: 1000
Ion Ratio Lower Upper
43 100
57 0.0 6.2 9.2#
72 12.1 20.3 30.5#



#37
Trichloroethene
Concen: 1.125 ug/l
RT: 7.21 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VX014075.D
Acq: 18 Dec 2019 02:14

Tgt Ion:130 Resp: 7088
Ion Ratio Lower Upper
130 100
95 77.1 71.7 107.5





#45

1,4-Dioxane

Concen: 1.618 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VX014075.D

Acq: 18 Dec 2019 02:14

Instrument :

MSVOA_X

ClientSampleId :

TT-012-IDW/GW-20191216

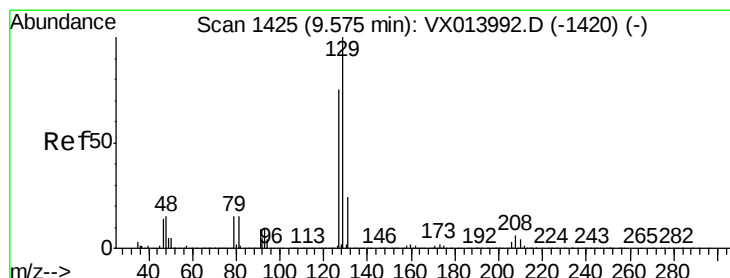
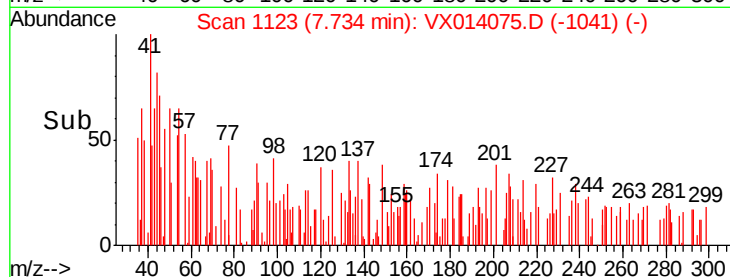
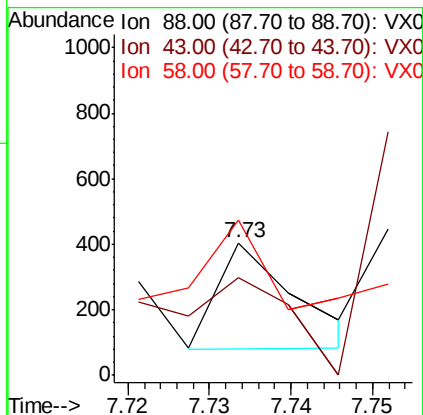
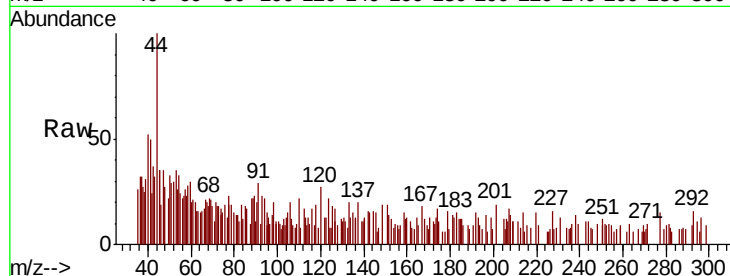
Tot Ion: 88 Resp: 213

Ion Ratio Lower Upper

88 100

43 88.7 25.4 38.2#

58 167.6 56.5 84.7#



#53

Dibromochloromethane

Concen: 0.316 ug/l

RT: 9.57 min Scan# 1425

Delta R.T. 0.00 min

Lab File: VX014075.D

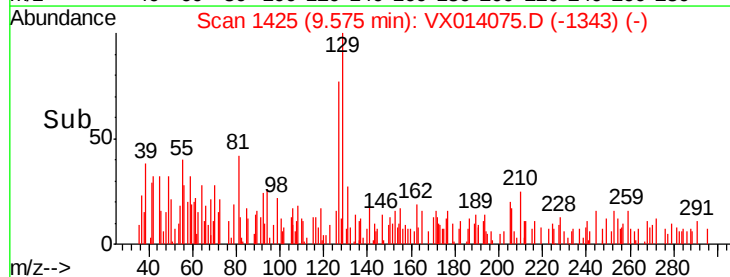
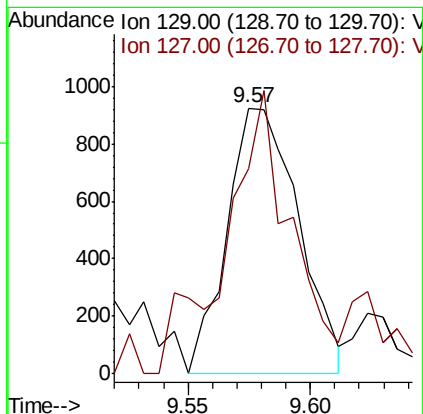
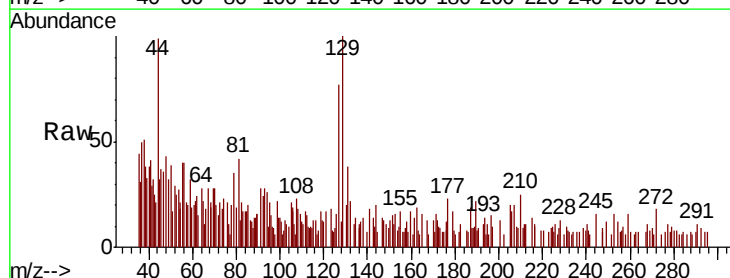
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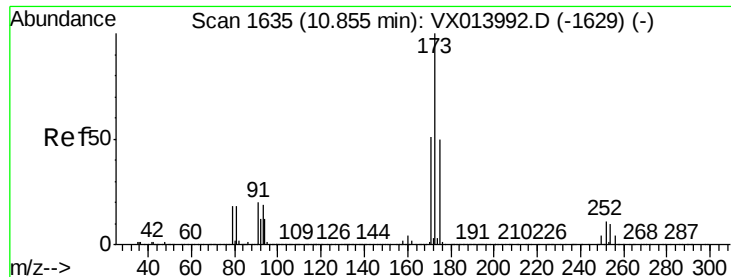
Tgt Ion: 129 Resp: 1872

Ion Ratio Lower Upper

129 100

127 75.5 39.1 117.5





#56

Bromoform

Concen: 0.472 ug/l

RT: 10.85 min Scan# 1635

Delta R.T. 0.00 min

Lab File: VX014075.D

Acq: 18 Dec 2019 02:14

Instrument :

MSVOA_X

ClientSampleId :

TT-012-IDW/GW-20191216

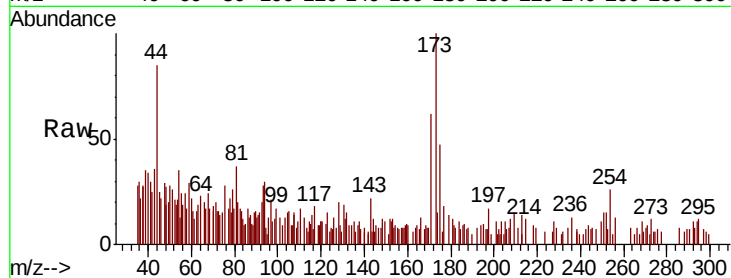
Tot Ion:173 Resp: 2180

Ion Ratio Lower Upper

173 100

175 45.0 39.5 59.3

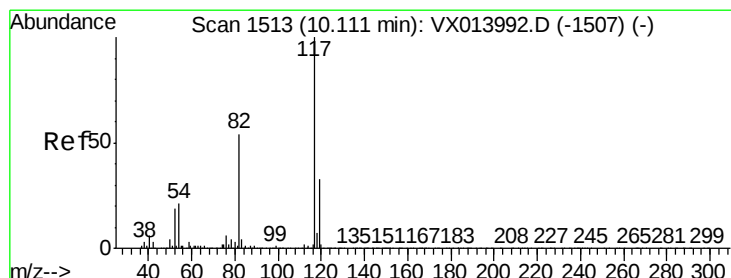
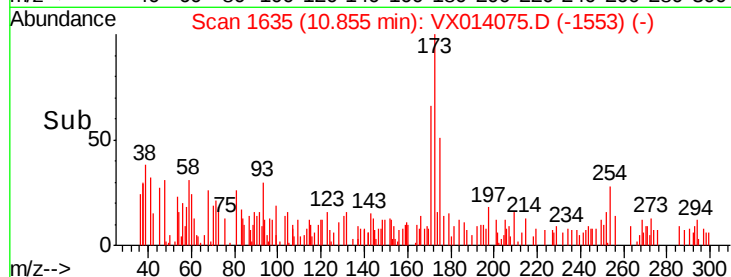
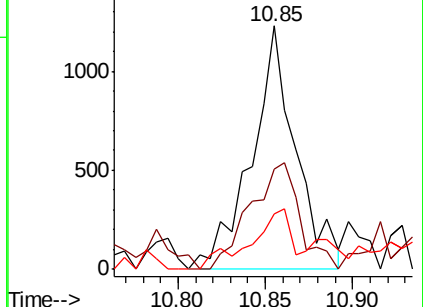
254 18.1 8.2 12.4#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX014075.D

Acq: 18 Dec 2019 02:14

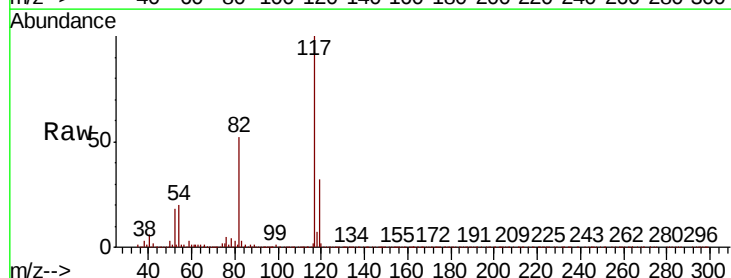
Tgt Ion:117 Resp: 435296

Ion Ratio Lower Upper

117 100

82 54.4 43.8 65.6

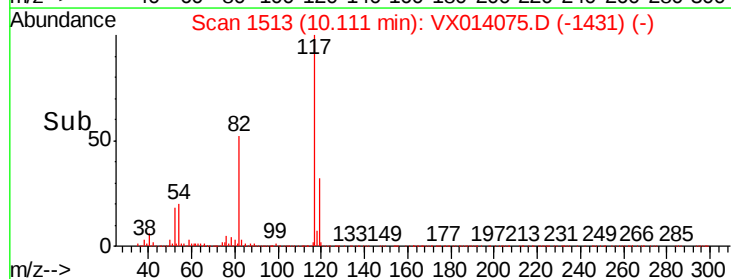
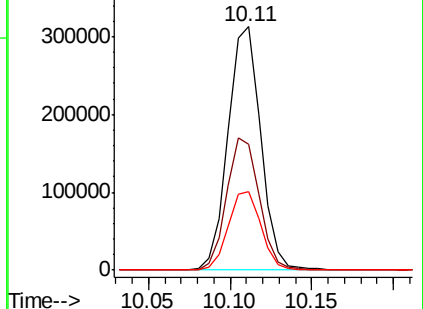
119 32.2 25.8 38.6

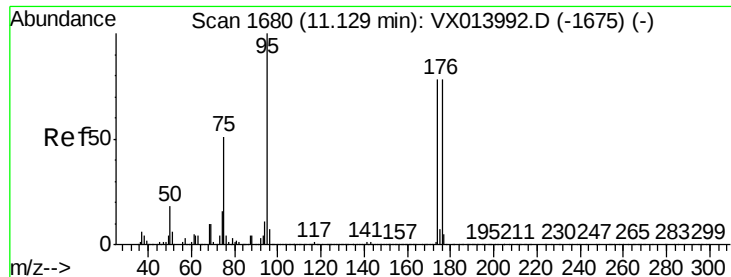


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V

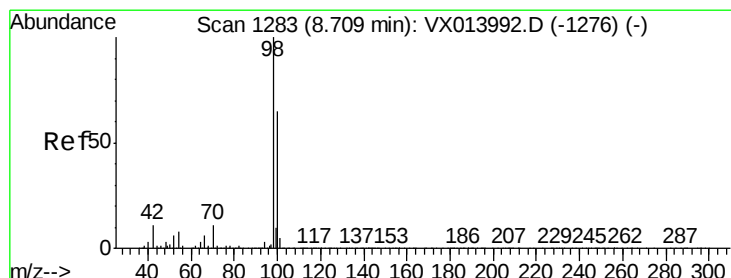
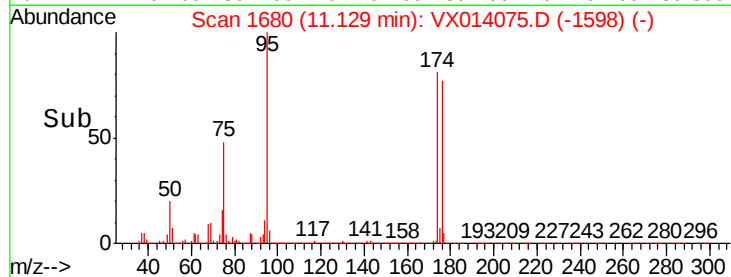
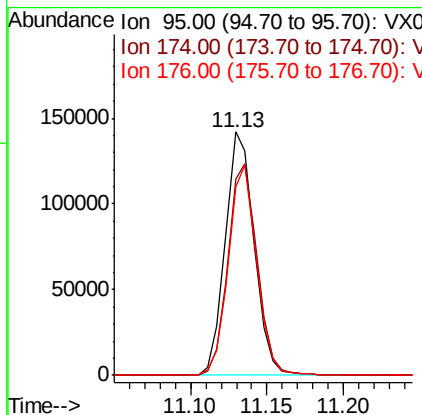
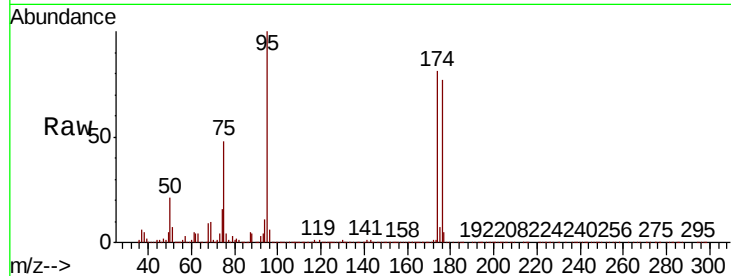




#60
4-Bromofluorobenzene
Concen: 26.397 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX014075.D
Acq: 18 Dec 2019 02:14

Instrument :
MSVOA_X
ClientSampleId :
TT-012-IDWGW-20191216

Tot Ion	Ratio	Lower	Upper
95	100		
174	87.4	70.2	105.2
176	84.8	68.3	102.5



#63
Toluene-d8
Concen: 31.149 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX014075.D
Acq: 18 Dec 2019 02:14

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.2	78.2

