

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX010920\
 Data File : VX014493.D
 Acq On : 09 Jan 2020 12:53
 Operator : JC/SP
 Sample : L1044-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 09 14:36:56 2020
 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	5.01	128	79215	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	438700	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	392338	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	168792	29.75	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.17%
60) 4-Bromofluorobenzene	11.13	95	181900	28.71	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.70%
63) Toluene-d8	8.71	98	522643	29.80	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.33%

Target Compounds

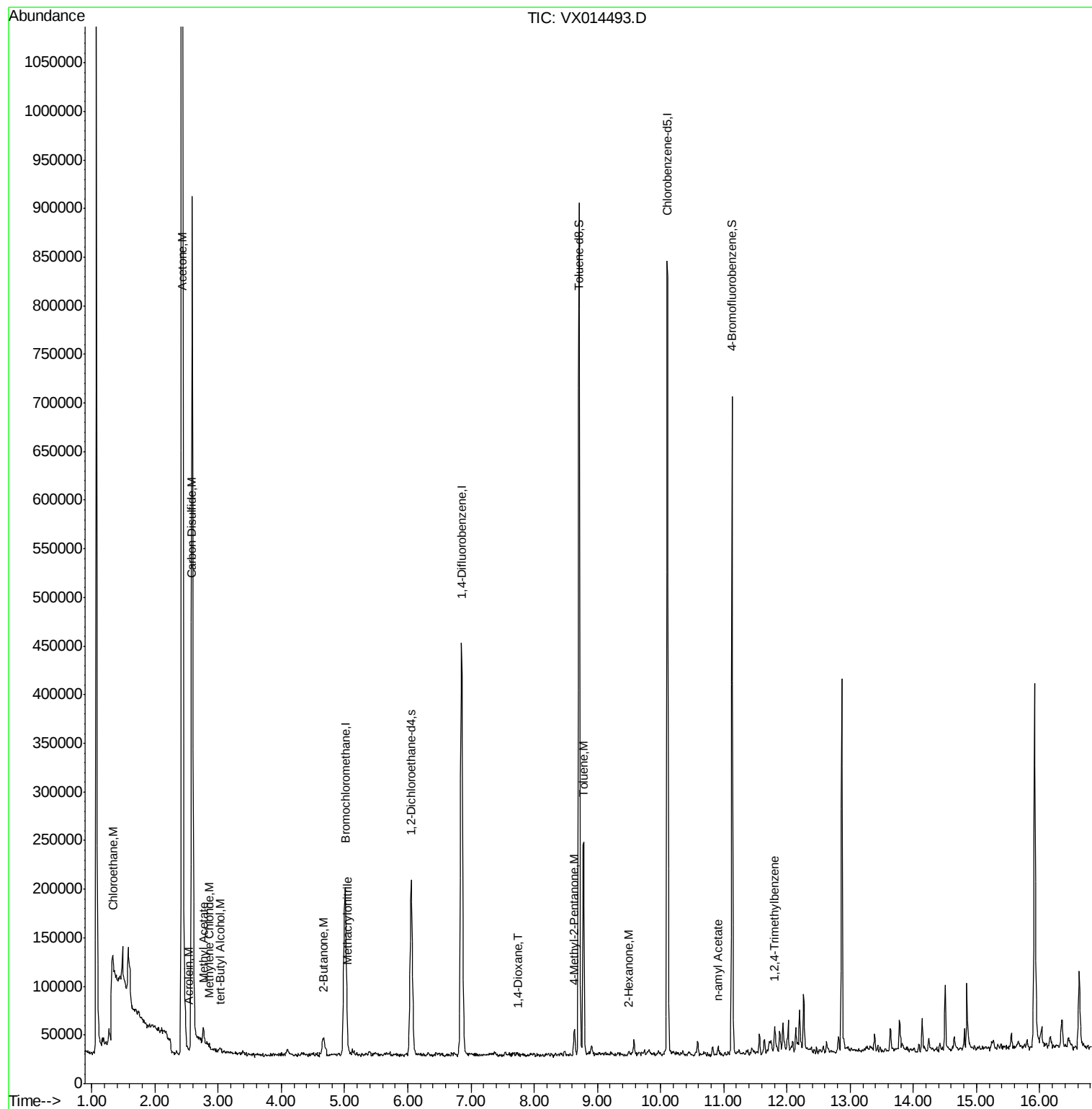
					Ovalue
6) Chloroethane	1.33	64	251325	70.377	ug/l # 52
12) Methyl Acetate	2.76	43	18341	2.671	ug/l 93
13) Acrolein	2.53	56	238	0.286	ug/l 100
15) Acetone	2.43	58	1037476	1315.553	ug/l 92
16) Carbon Disulfide	2.57	76	17157	1.428	ug/l 100
18) Methylene Chloride	2.86	84	1383	0.254	ug/l # 81
23) tert-Butyl Alcohol	3.04	59	852	0.809	ug/l # 100
30) 2-Butanone	4.66	43	31519	8.439	ug/l # 77
35) Methacrylonitrile	5.04	41	974	0.242	ug/l # 37
45) 1,4-Dioxane	7.75	88	279	2.482	ug/l # 31
47) n-amyl Acetate	10.90	43	2292	0.215	ug/l # 1
58) 4-Methyl-2-Pentanone	8.63	43	17066	2.325	ug/l 97
59) 2-Hexanone	9.49	43	1304	0.234	ug/l # 77
62) Toluene	8.78	91	147724	7.079	ug/l 98
80) 1,2,4-Trimethylbenzene	11.81	105	6705	0.354	ug/l 50

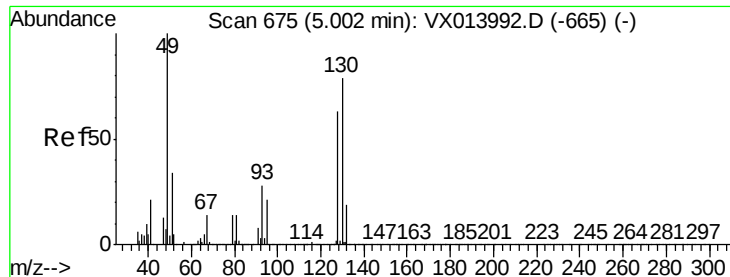
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX010920\
Data File : VX014493.D
Acq On : 09 Jan 2020 12:53
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Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Jan 09 14:36:56 2020
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: 5.01 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX014493.D

Acq: 09 Jan 2020 12:53

Instrument :

MSVOA_X

ClientSampled :

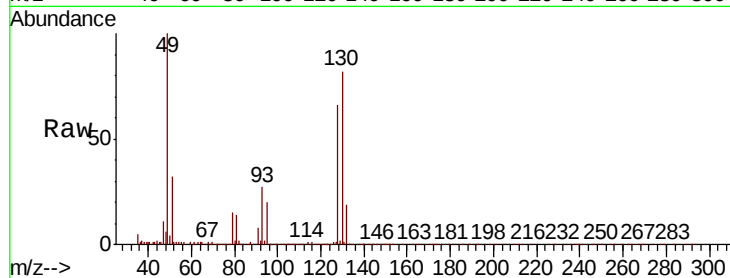
Tot Ion:128 Resp: 79215

Ion Ratio Lower Upper

128 100

49 155.1 0.0 405.0

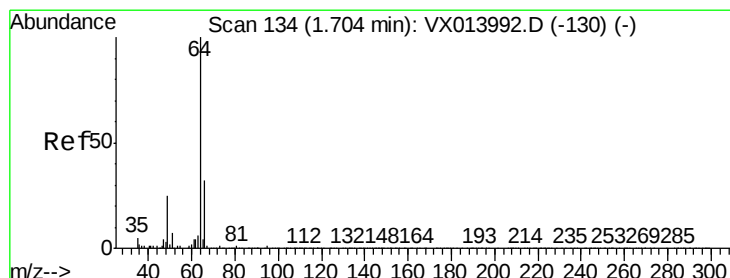
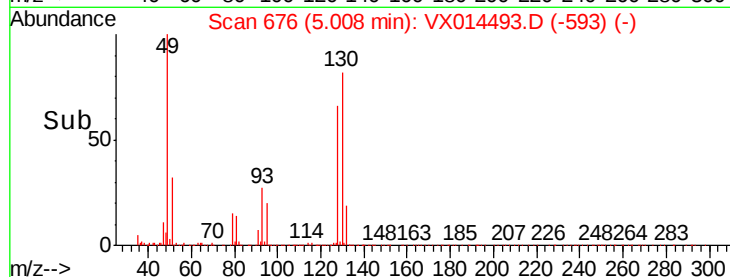
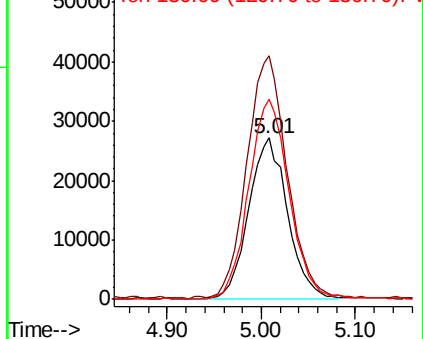
130 127.4 0.0 321.5



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



#6

Chloroethane

Concen: 70.377 ug/l

RT: 1.33 min Scan# 73

Delta R.T. -0.37 min

Lab File: VX014493.D

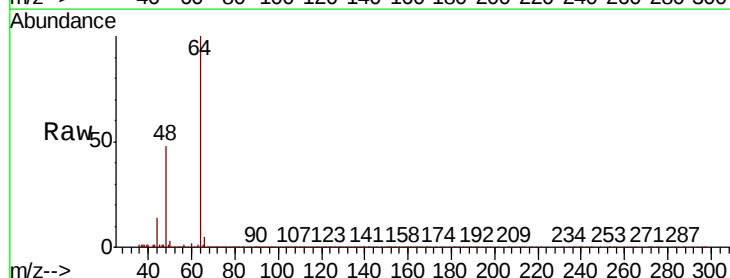
Acq: 09 Jan 2020 12:53

Tgt Ion: 64 Resp: 251325

Ion Ratio Lower Upper

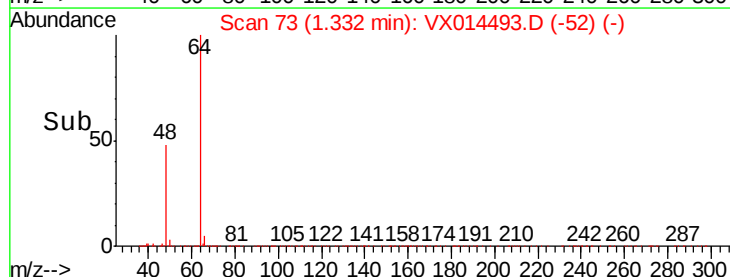
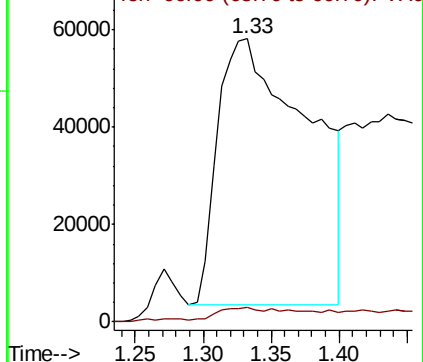
64 100

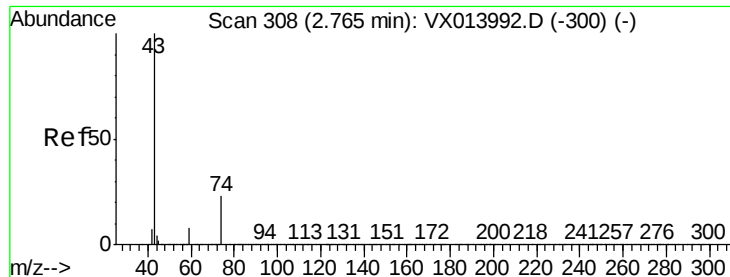
66 5.1 25.2 37.8#



Abundance Ion 64.00 (63.70 to 64.70): VX0

Ion 66.00 (65.70 to 66.70): VX0





#12

Methyl Acetate

Concen: 2.671 ug/l

RT: 2.76 min Scan# 307

Delta R.T. -0.01 min

Lab File: VX014493.D

Acq: 09 Jan 2020 12:53

Instrument :

MSVOA_X

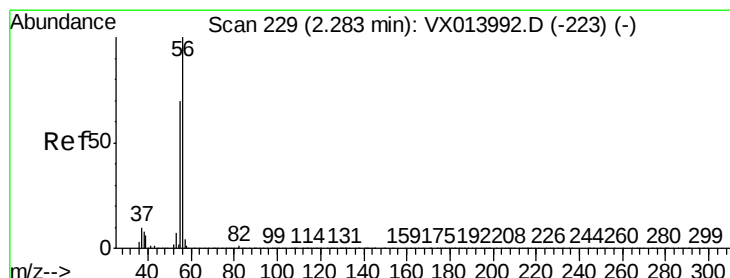
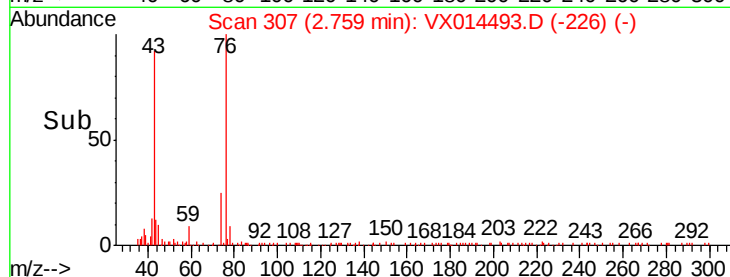
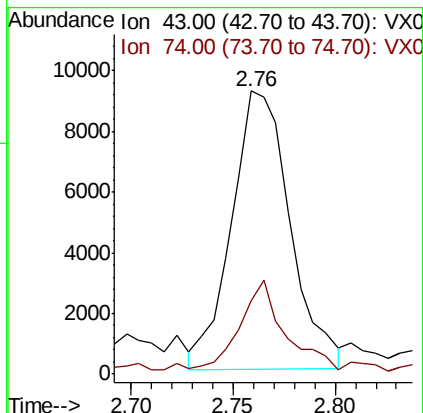
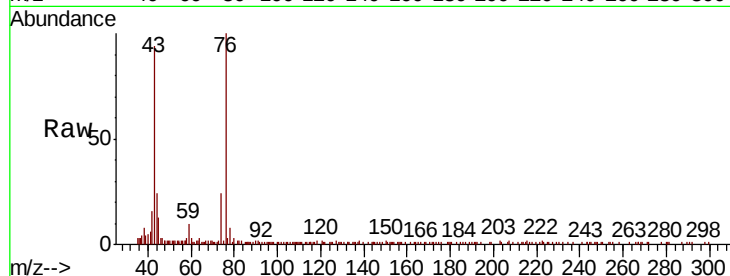
ClientSampleId :

Tot Ion: 43 Resp: 18341

Ion Ratio Lower Upper

43 100

74 26.5 18.5 27.7



#13

Acrolein

Concen: 0.286 ug/l

RT: 2.53 min Scan# 269

Delta R.T. 0.24 min

Lab File: VX014493.D

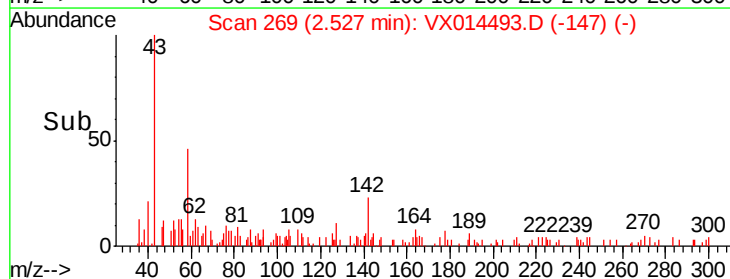
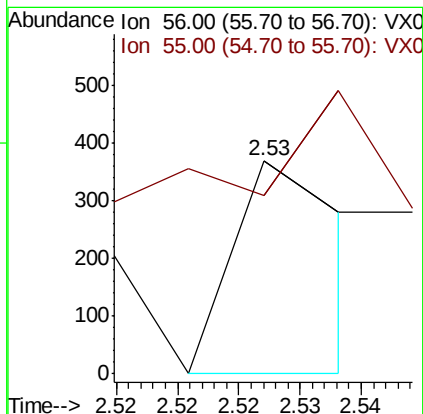
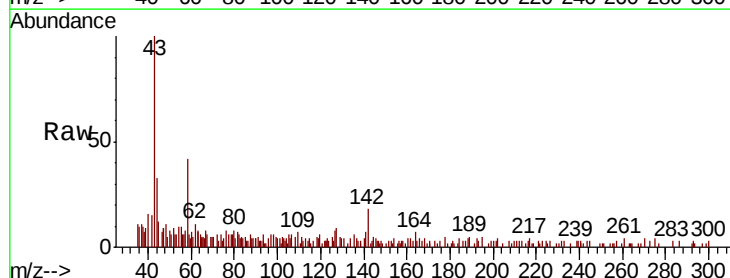
Acq: 09 Jan 2020 12:53

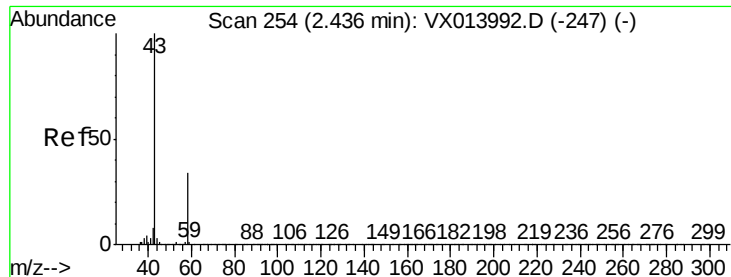
Tgt Ion: 56 Resp: 238

Ion Ratio Lower Upper

56 100

55 68.9 54.9 82.3

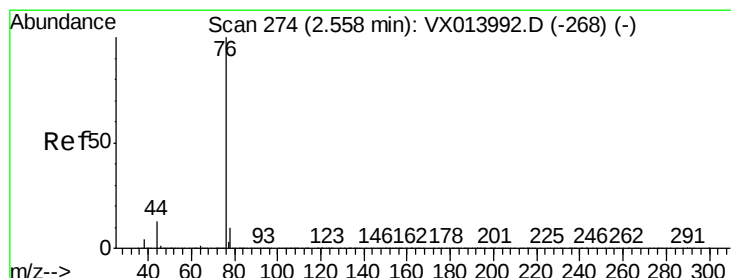
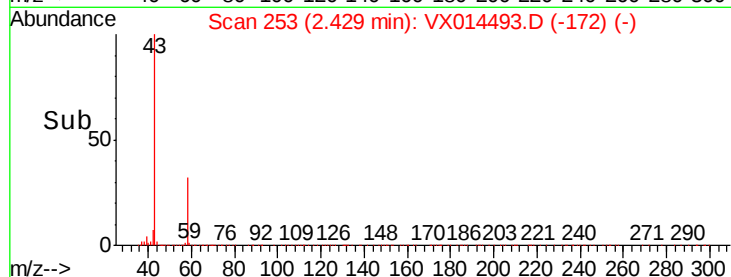
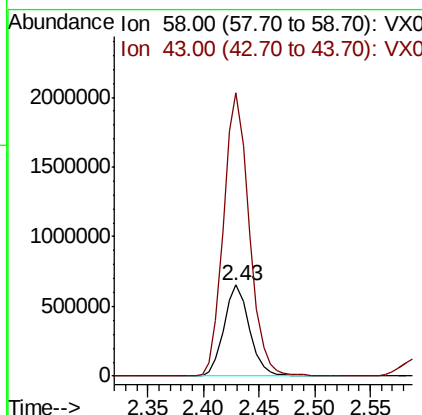
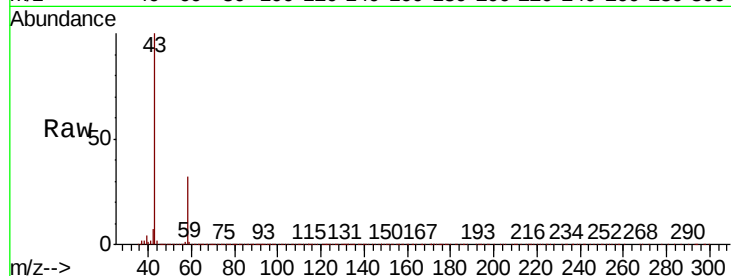




#15
Acetone
Concen: 1315.553 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.01 min
Lab File: VX014493.D
Acq: 09 Jan 2020 12:53

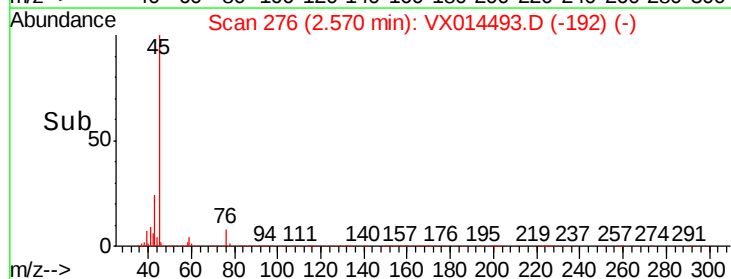
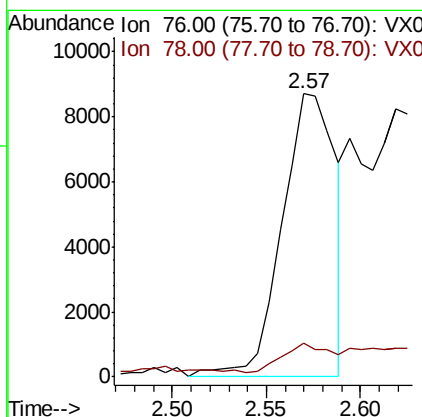
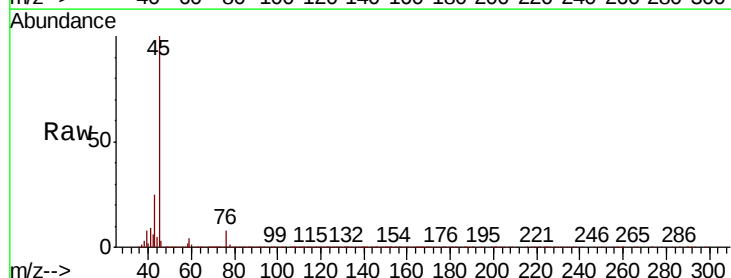
Instrument :
MSVOA_X
ClientSampleId :

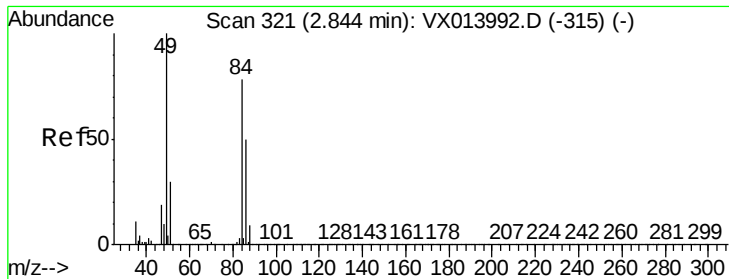
Tot Ion: 58 Resp: 1037476
Ion Ratio Lower Upper
58 100
43 311.2 236.3 354.5



#16
Carbon Disulfide
Concen: 1.428 ug/l
RT: 2.57 min Scan# 276
Delta R.T. 0.01 min
Lab File: VX014493.D
Acq: 09 Jan 2020 12:53

Tgt Ion: 76 Resp: 17157
Ion Ratio Lower Upper
76 100
78 9.6 7.8 11.8

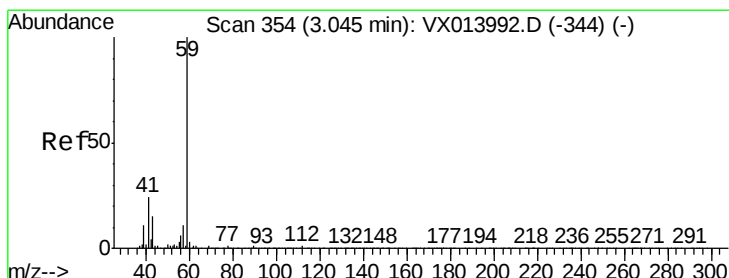
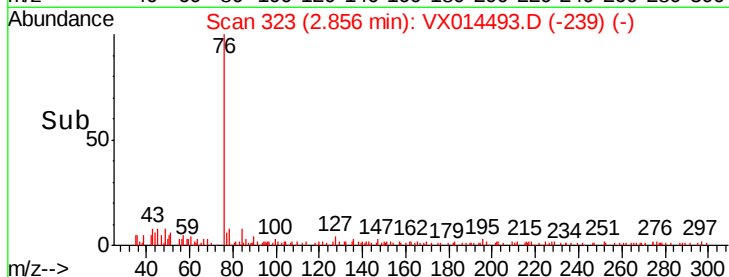
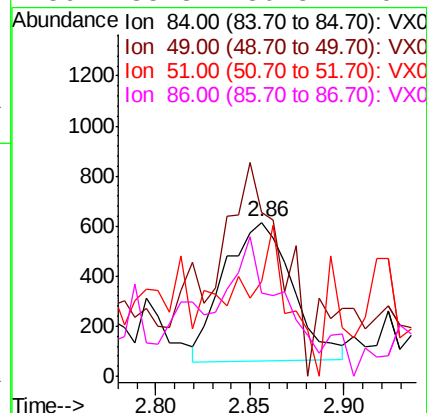
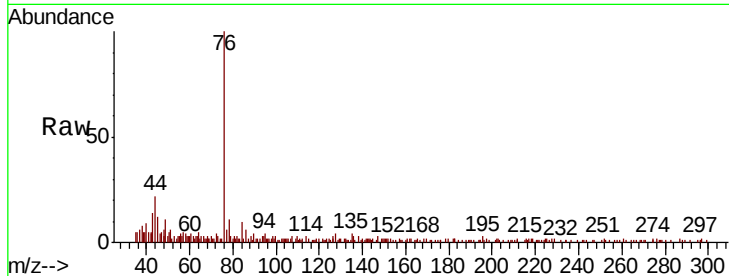




#18
Methylene Chloride
Concen: 0.254 ug/l
RT: 2.86 min Scan# 323
Delta R.T. 0.01 min
Lab File: VX014493.D
Acq: 09 Jan 2020 12:53

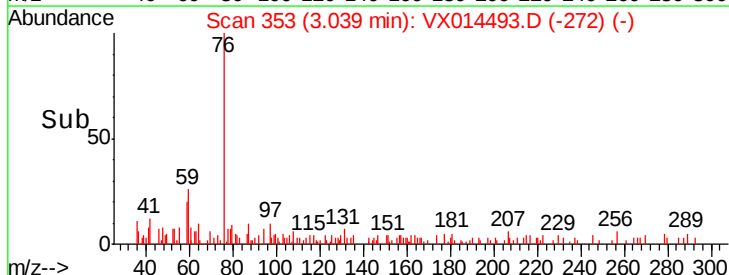
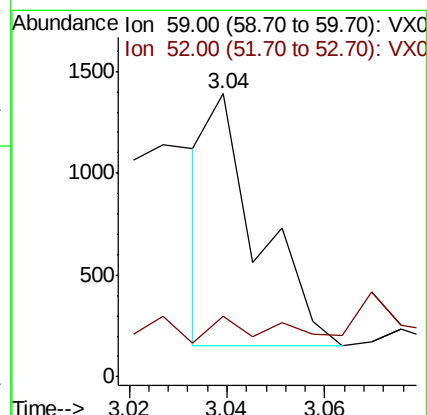
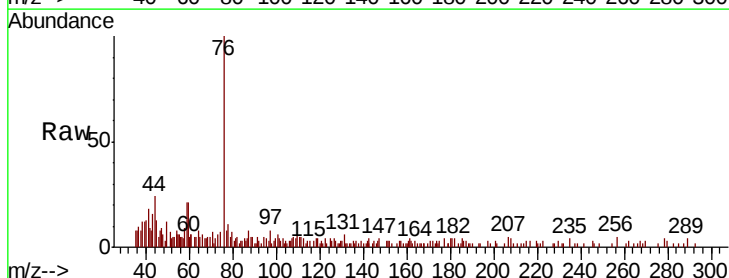
Instrument :
MSVOA_X
ClientSampled :

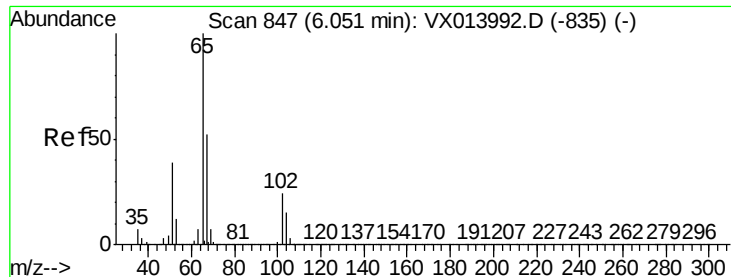
Tot Ion: 84 Resp: 1383
Ion Ratio Lower Upper
84 100
49 111.4 102.2 153.2
51 38.4 31.4 47.0
86 33.3 50.8 76.2#



#23
tert-Butyl Alcohol
Concen: 0.809 ug/l
RT: 3.04 min Scan# 353
Delta R.T. -0.01 min
Lab File: VX014493.D
Acq: 09 Jan 2020 12:53

Tgt Ion: 59 Resp: 852
Ion Ratio Lower Upper
59 100
52 0.0 0.2 0.2#





#27

1,2-Dichloroethane-d4

Concen: 29.753 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX014493.D

Acq: 09 Jan 2020 12:53

Instrument :

MSVOA_X

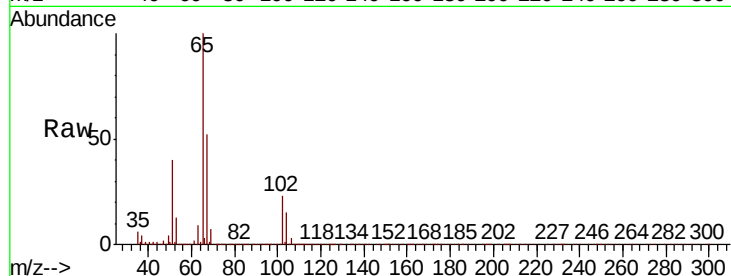
ClientSampleId :

Tot Ion: 65 Resp: 168792

Ion Ratio Lower Upper

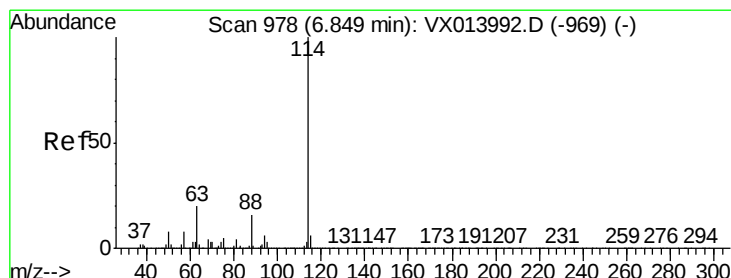
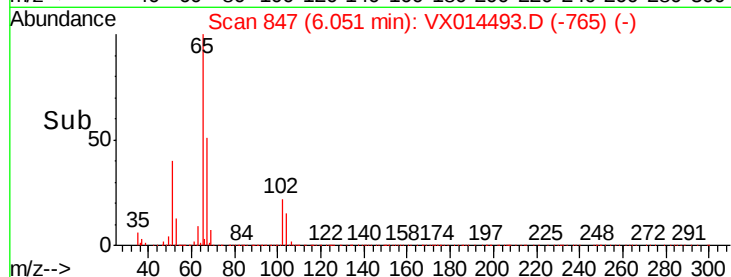
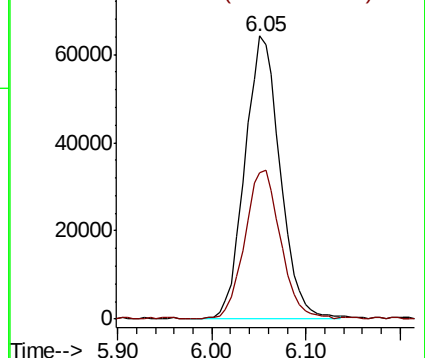
65 100

67 52.9 43.1 64.7



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: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX014493.D

Acq: 09 Jan 2020 12:53

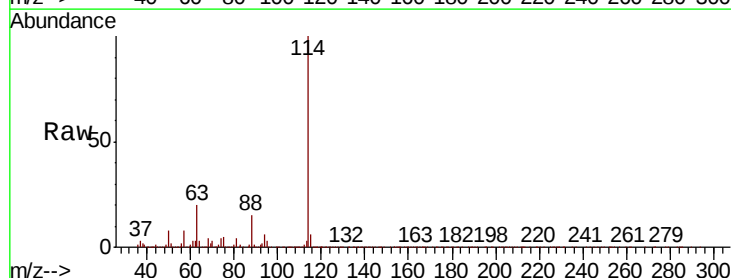
Tgt Ion: 114 Resp: 438700

Ion Ratio Lower Upper

114 100

63 19.7 16.1 24.1

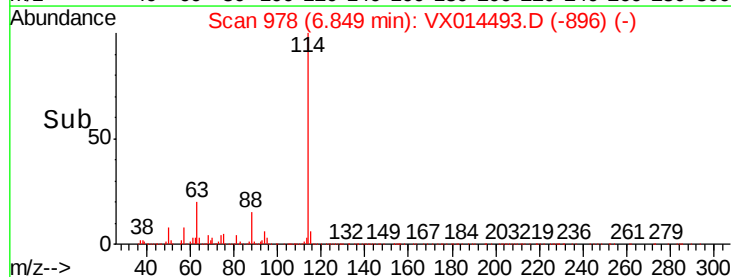
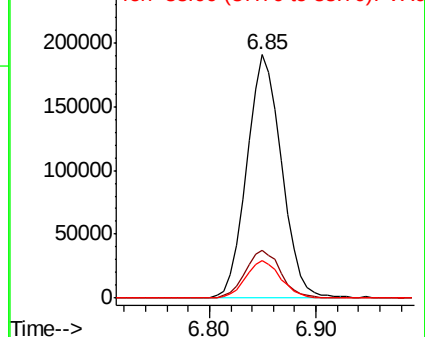
88 15.6 12.5 18.7

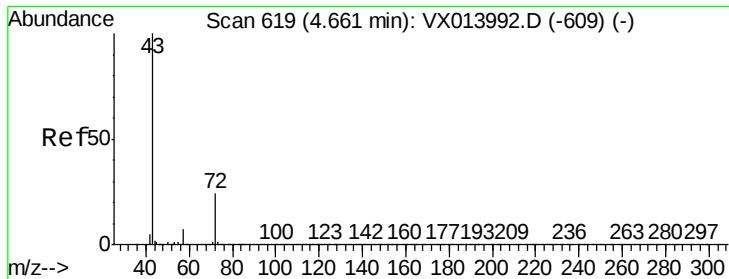


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0

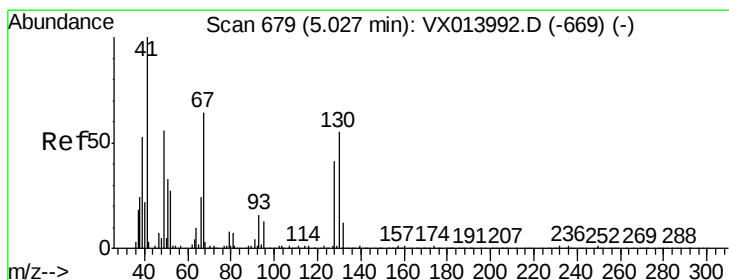
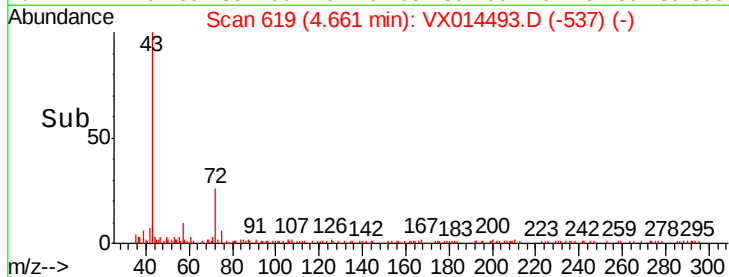
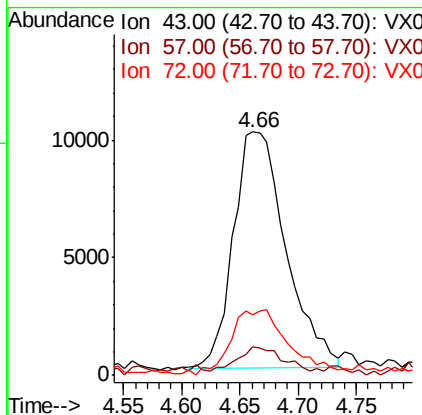
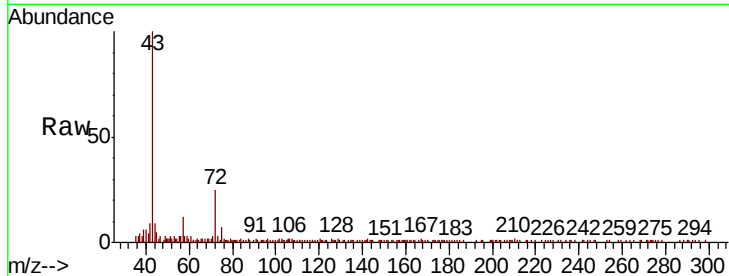




#30
2-Butanone
Concen: 8.439 ug/l
RT: 4.66 min Scan# 619
Delta R.T. -0.00 min
Lab File: VX014493.D
Acq: 09 Jan 2020 12:53

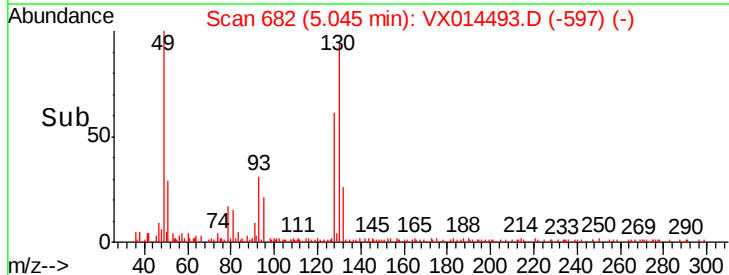
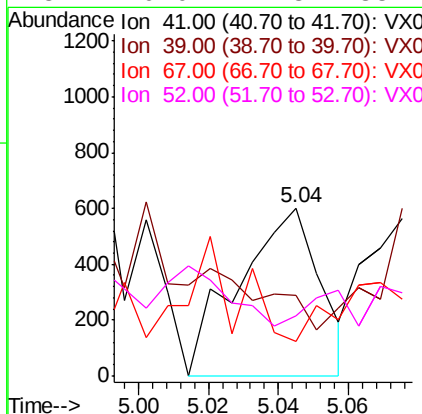
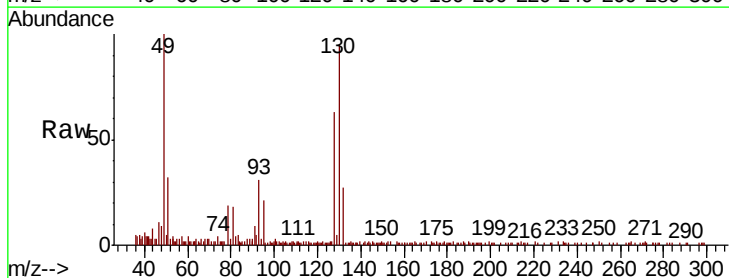
Instrument :
MSVOA_X
ClientSampleId :

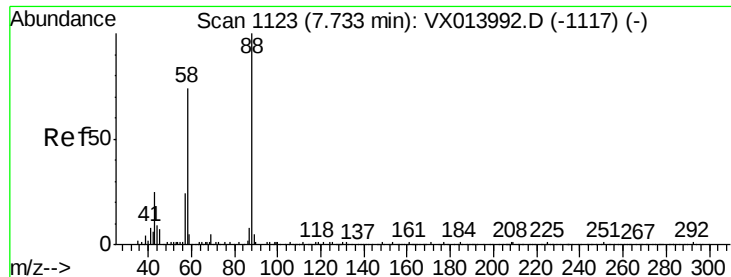
Tot Ion: 43 Resp: 31519
Ion Ratio Lower Upper
43 100
57 8.1 6.2 9.2
72 10.4 20.3 30.5#



#35
Methacrylonitrile
Concen: 0.242 ug/l
RT: 5.04 min Scan# 682
Delta R.T. 0.02 min
Lab File: VX014493.D
Acq: 09 Jan 2020 12:53

Tgt Ion: 41 Resp: 974
Ion Ratio Lower Upper
41 100
39 7.6 26.7 80.1#
67 11.3 31.5 94.5#
52 0.0 12.8 38.4#

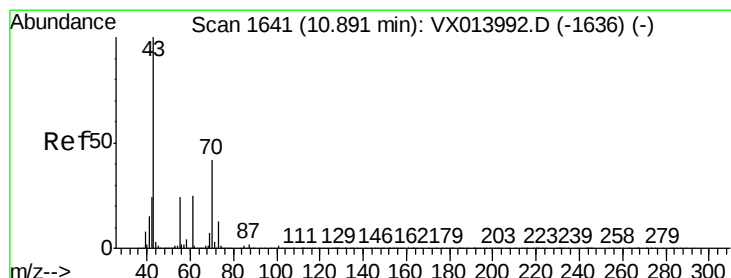
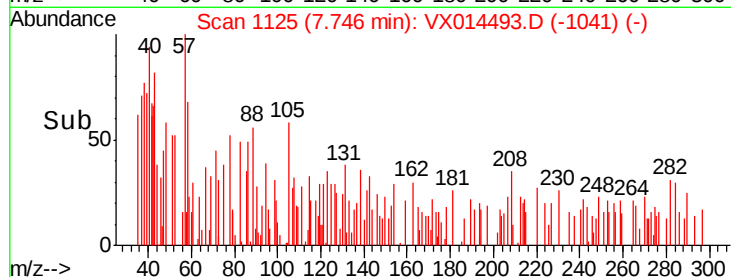
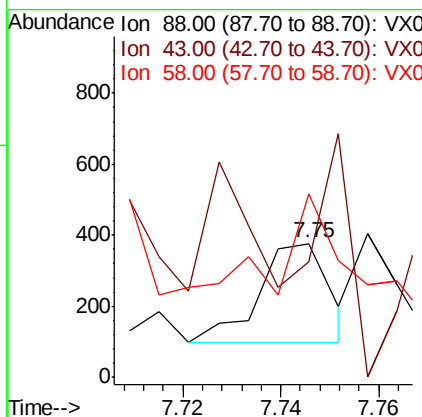
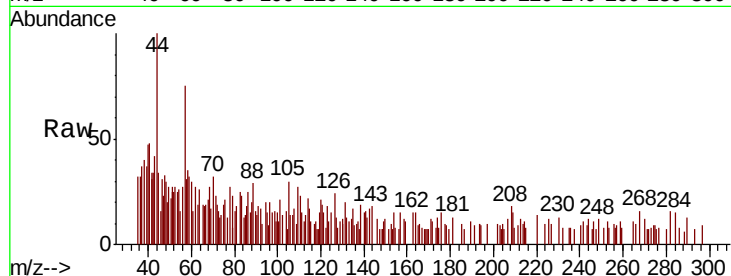




#45
1,4-Dioxane
Concen: 2.482 ug/l
RT: 7.75 min Scan# 1125
Delta R.T. 0.01 min
Lab File: VX014493.D
Acq: 09 Jan 2020 12:53

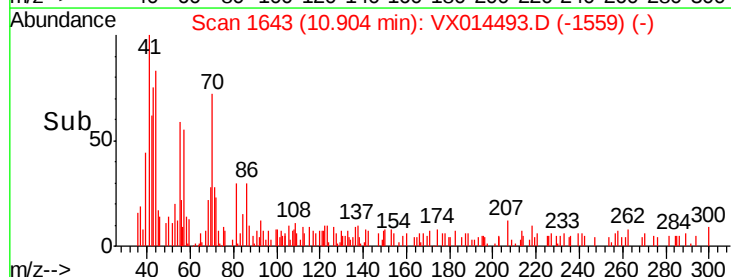
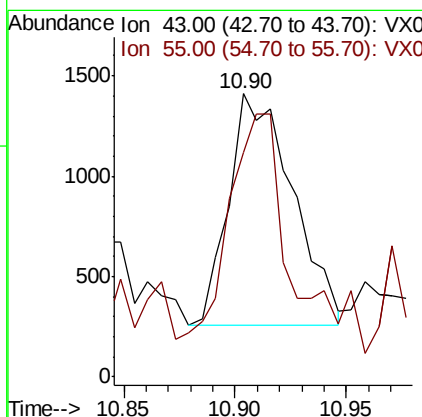
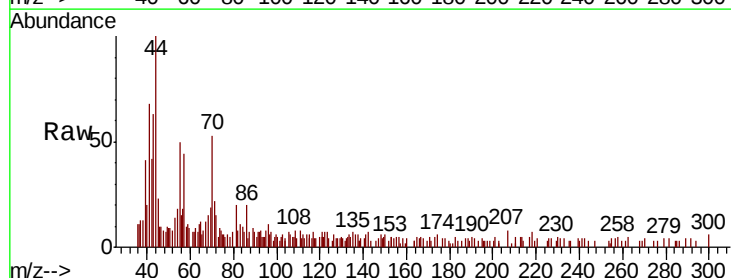
Instrument :
MSVOA_X
ClientSampled :

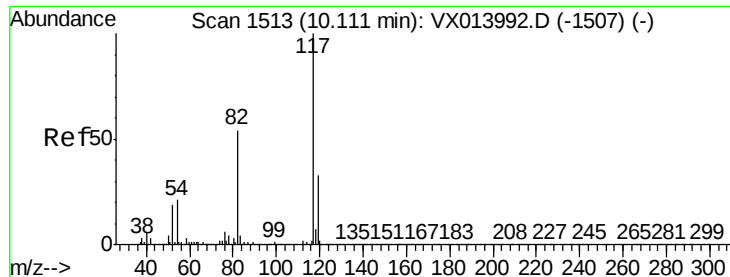
Tot Ion: 88 Resp: 279
Ion Ratio Lower Upper
88 100
43 0.0 25.4 38.2#
58 132.3 56.5 84.7#



#47
n-aryl Acetate
Concen: 0.215 ug/l
RT: 10.90 min Scan# 1643
Delta R.T. 0.01 min
Lab File: VX014493.D
Acq: 09 Jan 2020 12:53

Tgt Ion: 43 Resp: 2292
Ion Ratio Lower Upper
43 100
55 86.4 19.4 29.2#

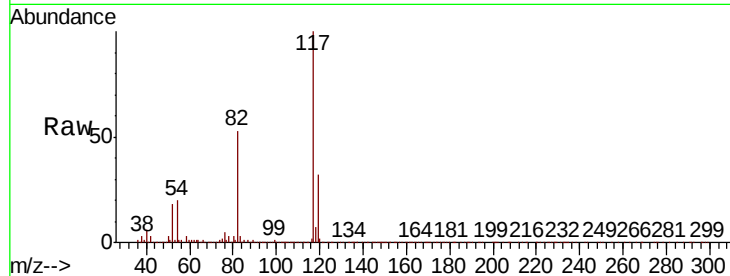




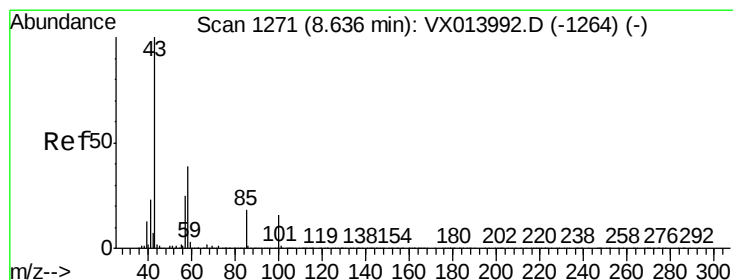
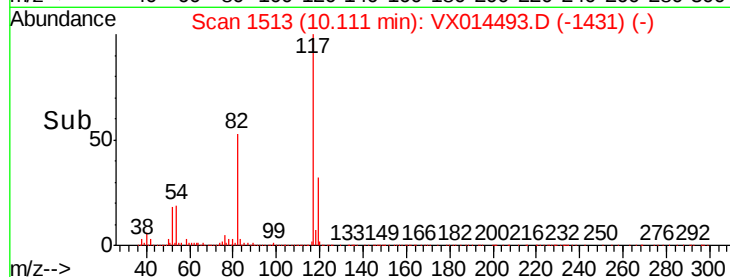
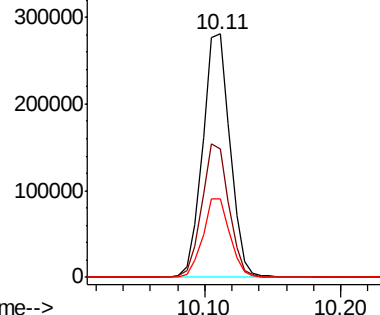
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX014493.D
Acq: 09 Jan 2020 12:53

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.1	43.8	65.6
119	32.0	25.8	38.6

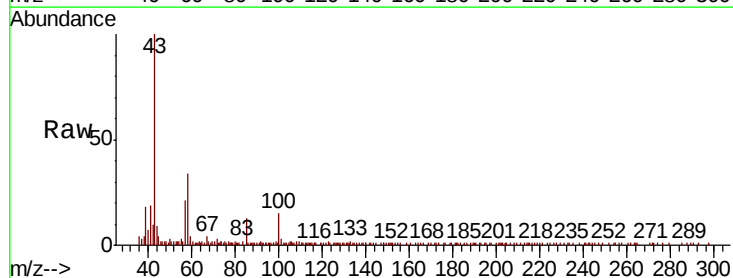


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 119.00 (118.70 to 119.70): V

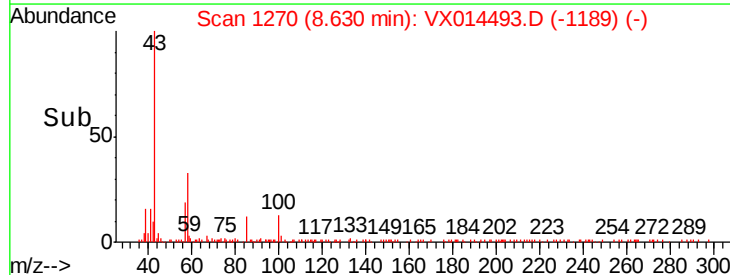
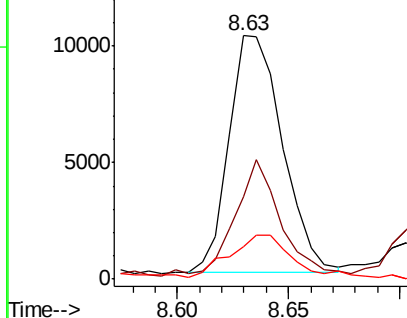


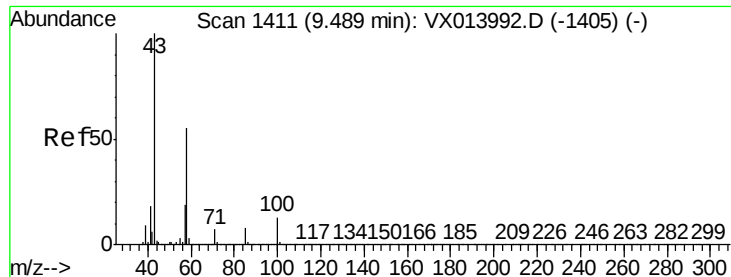
#58
4-Methyl-2-Pentanone
Concen: 2.325 ug/l
RT: 8.63 min Scan# 1270
Delta R.T. -0.01 min
Lab File: VX014493.D
Acq: 09 Jan 2020 12:53

Tgt Ion	Ratio	Lower	Upper
43	100		
58	40.3	31.2	46.8
85	19.6	14.2	21.2



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0
Ion 85.00 (84.70 to 85.70): VX0

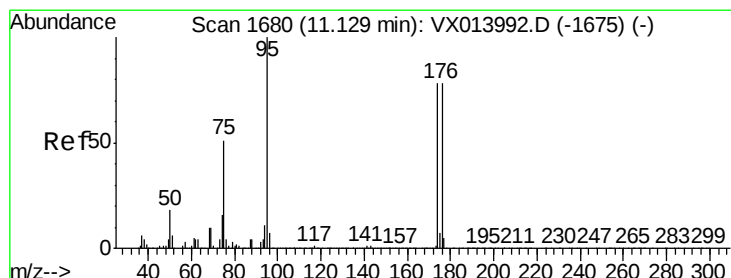
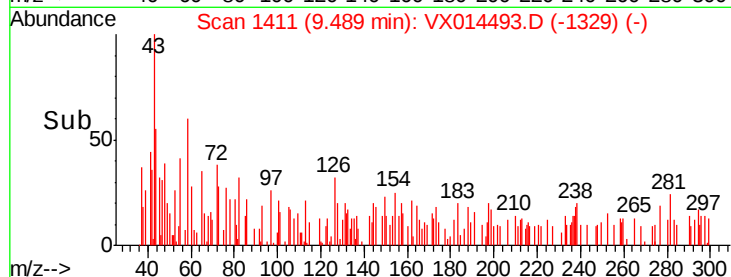
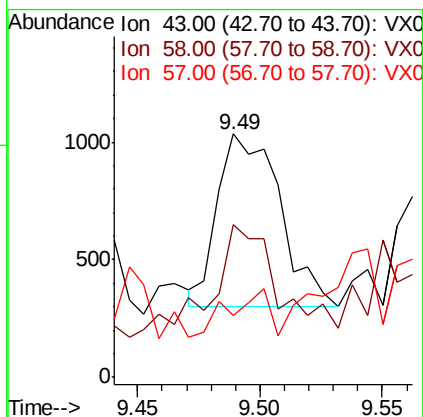
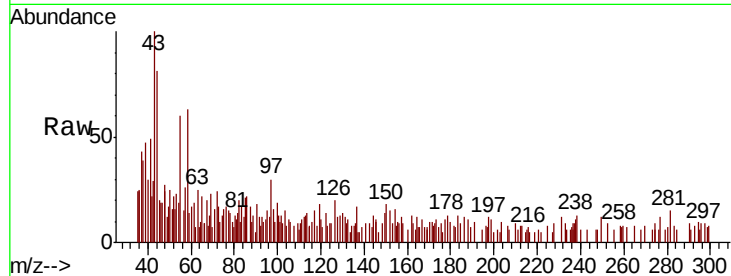




#59
2-Hexanone
Concen: 0.234 ug/l
RT: 9.49 min Scan# 1411
Delta R.T. -0.00 min
Lab File: VX014493.D
Acq: 09 Jan 2020 12:53

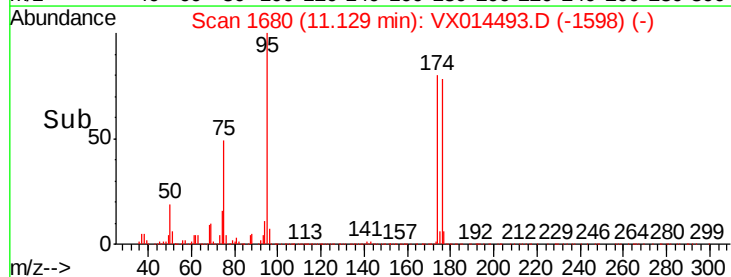
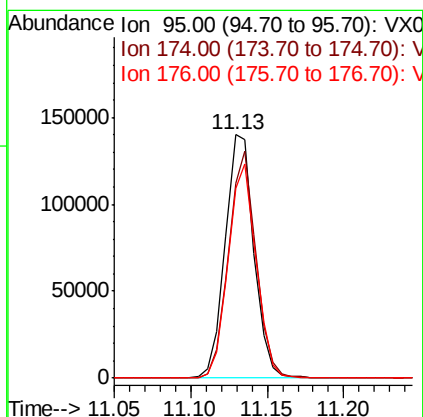
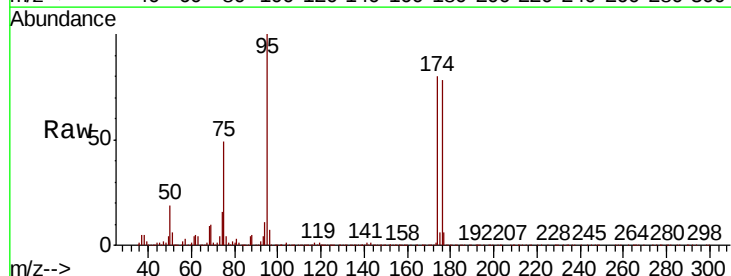
Instrument :
MSVOA_X
ClientSampleId :

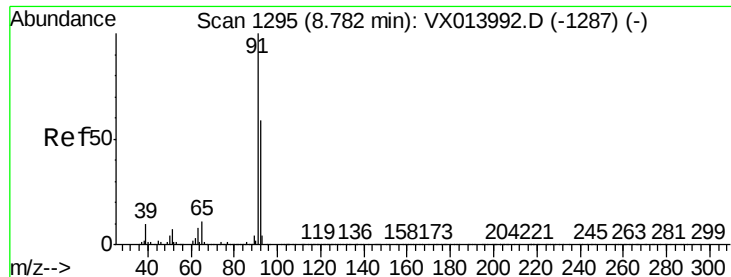
Tot Ion: 43 Resp: 1304
Ion Ratio Lower Upper
43 100
58 38.7 43.8 65.6#
57 7.5 15.4 23.0#



#60
4-Bromofluorobenzene
Concen: 28.712 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VX014493.D
Acq: 09 Jan 2020 12:53

Tgt Ion: 95 Resp: 181900
Ion Ratio Lower Upper
95 100
174 89.4 70.2 105.2
176 85.9 68.3 102.5





#62

Toluene

Concen: 7.079 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. -0.00 min

Lab File: VX014493.D

Acq: 09 Jan 2020 12:53

Instrument :

MSVOA_X

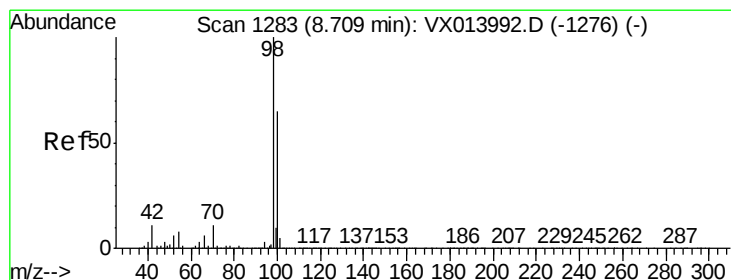
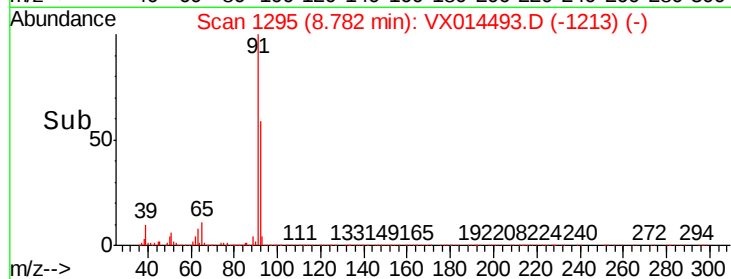
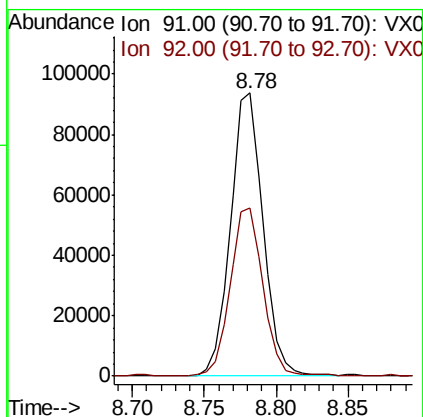
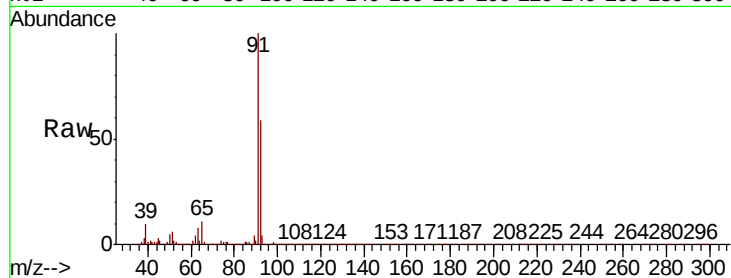
ClientSampleId :

Tot Ion: 91 Resp: 147724

Ion Ratio Lower Upper

91 100

92 59.4 46.4 69.6



#63

Toluene-d8

Concen: 29.802 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX014493.D

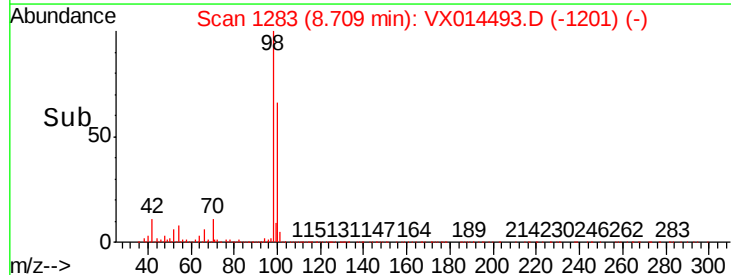
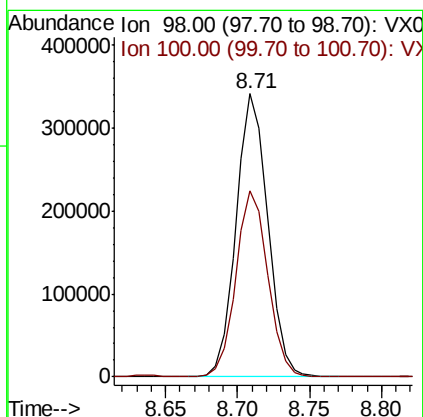
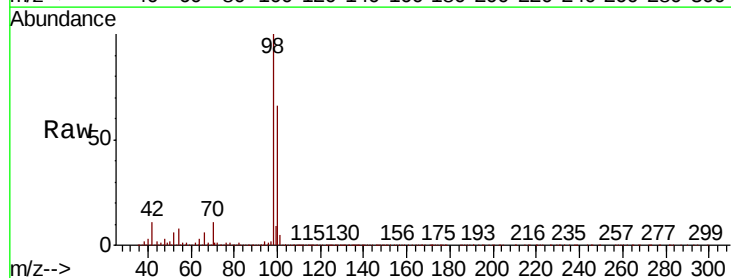
Acq: 09 Jan 2020 12:53

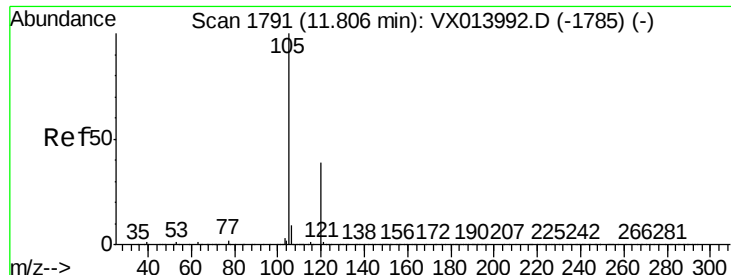
Tgt Ion: 98 Resp: 522643

Ion Ratio Lower Upper

98 100

100 66.0 52.2 78.2





#80
 1,2,4-Trimethylbenzene
 Concen: 0.354 ug/l
 RT: 11.81 min Scan# 1791
 Delta R.T. -0.00 min
 Lab File: VX014493.D
 Acq: 09 Jan 2020 12:53

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:105 Resp: 6705
 Ion Ratio Lower Upper
 105 100
 120 13.2 0.0 92.0

