

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111419\
 Data File : VX013421.D
 Acq On : 14 Nov 2019 14:49
 Operator : JC/SP
 Sample : K5828-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 15 00:56:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 12 01:16:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	111945	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	624931	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	540617	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	244506	29.58	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.60%
60) 4-Bromofluorobenzene	11.14	95	238909	27.49	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	91.63%
63) Toluene-d8	8.71	98	745051	30.48	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.60%

Target Compounds

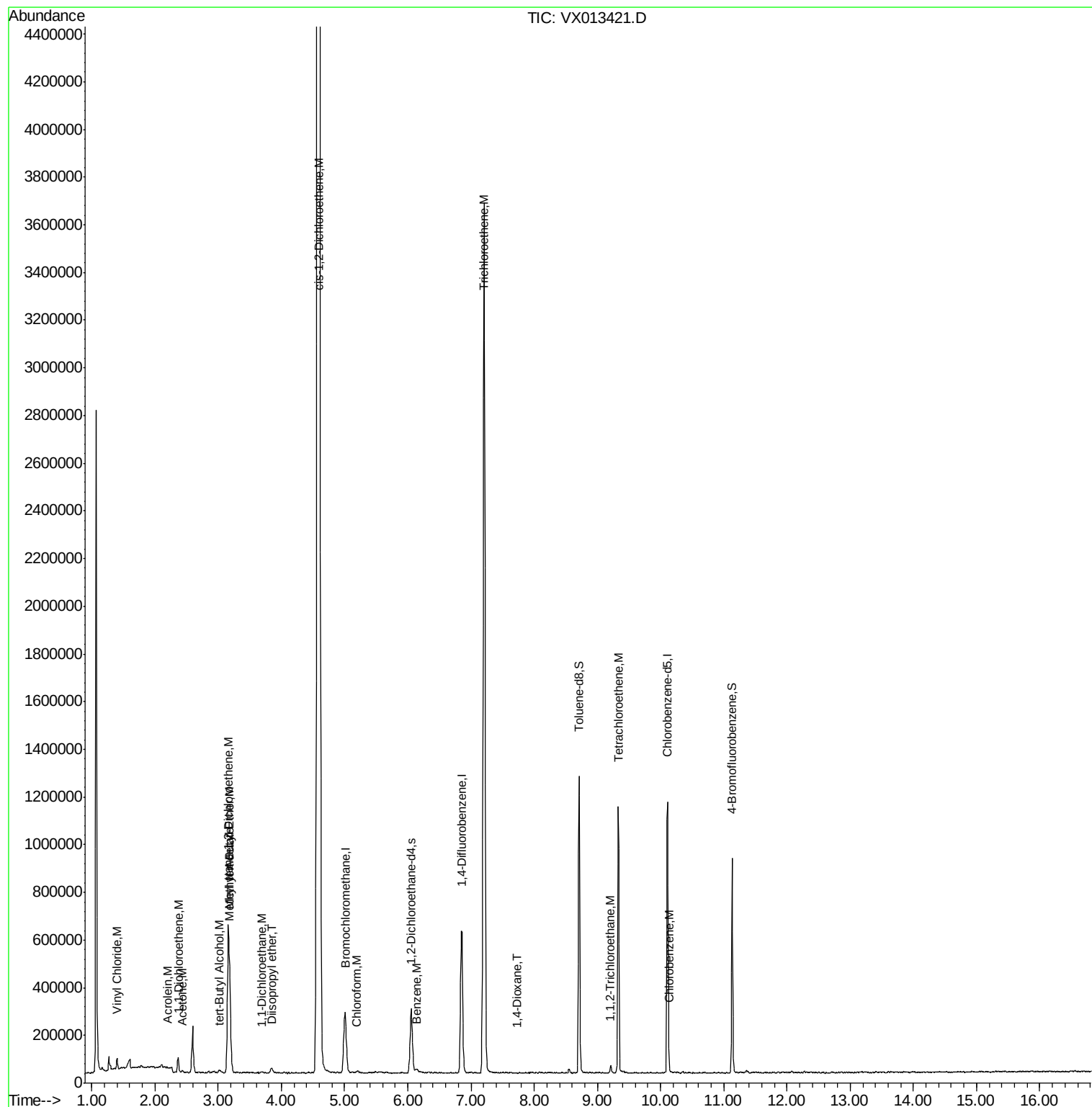
					Ovalue
4) Vinyl Chloride	1.40	62	29607	2.850	ug/l 100
10) 1,1-Dichloroethene	2.36	96	22750	3.291	ug/l 95
12) Methyl Acetate	3.18	43	82910	6.844	ug/l 97
13) Acrolein	2.21	56	418	0.325	ug/l 89
15) Acetone	2.43	58	2861	2.120	ug/l 88
19) trans-1,2-Dichloroethene	3.15	96	219005	29.640	ug/l 97
20) Diisopropyl ether	3.85	45	20294	0.829	ug/l # 66
21) 1,1-Dichloroethane	3.70	63	3045	0.228	ug/l # 92
22) cis-1,2-Dichloroethene	4.59	96	6983122	828.940	ug/l 87
23) tert-Butyl Alcohol	3.02	59	8060	3.759	ug/l # 96
24) Methyl tert-Butyl Ether	3.19	73	389370	17.016	ug/l 100
25) Chloroform	5.19	83	3191	0.244	ug/l 86
34) Benzene	6.14	78	23095	0.798	ug/l 96
37) Trichloroethene	7.21	130	1442679	186.001	ug/l 97
45) 1,4-Dioxane	7.73	88	208	1.020	ug/l # 19
50) 1,1,2-Trichloroethane	9.21	97	8889	1.206	ug/l 91
61) Tetrachloroethene	9.33	164	222472	33.372	ug/l 98
64) Chlorobenzene	10.14	112	6983	0.371	ug/l 96

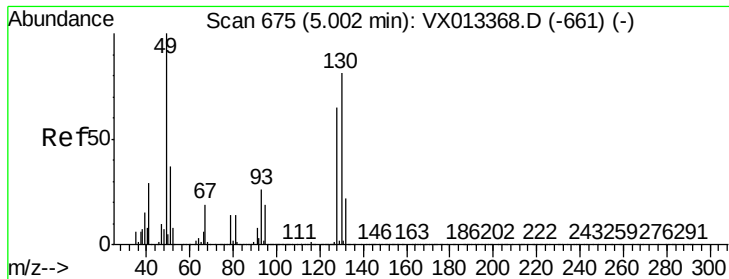
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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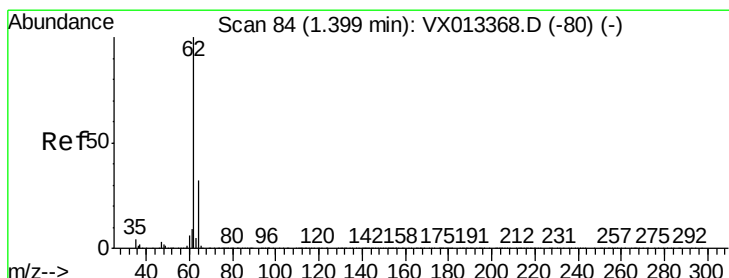
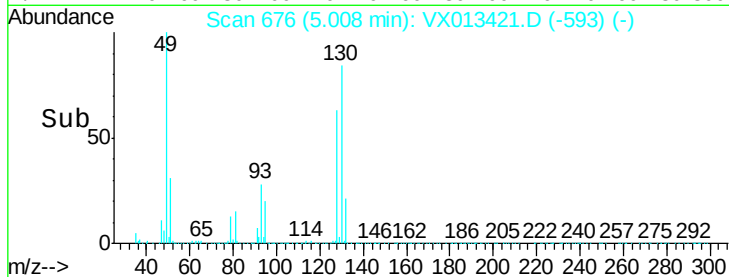
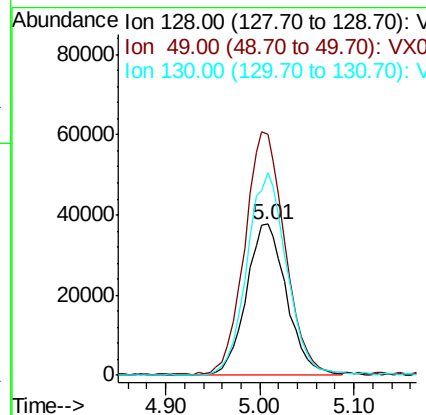
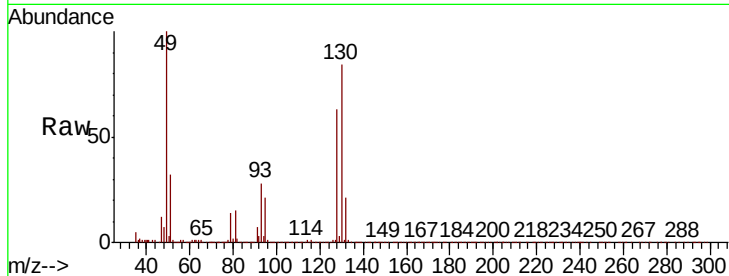




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 5.01 min Scan# 676
Delta R.T. 0.01 min
Lab File: VX013421.D
Acq: 14 Nov 2019 14:49

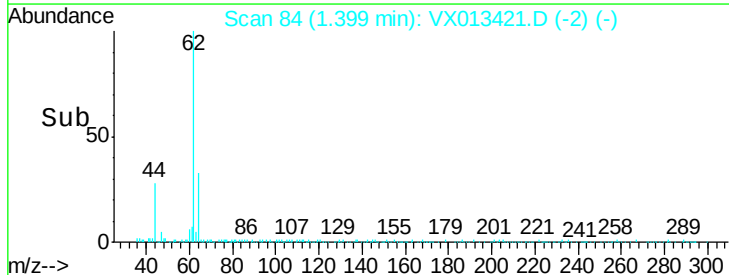
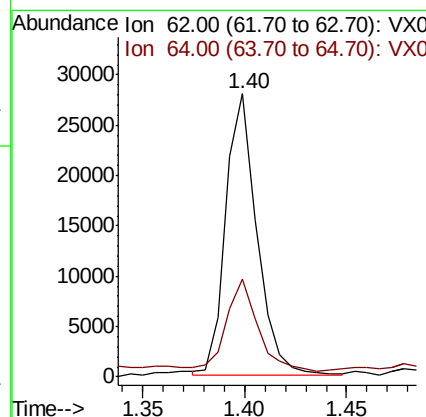
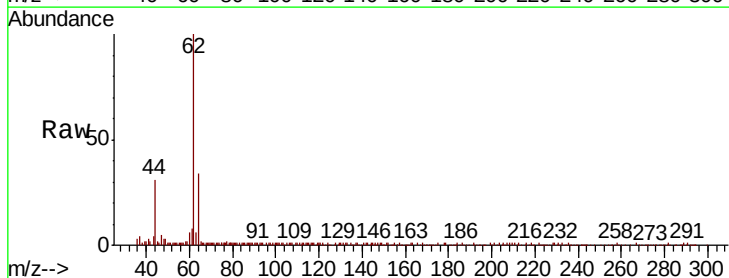
Instrument :
MSVOA_X
ClientSampleId :

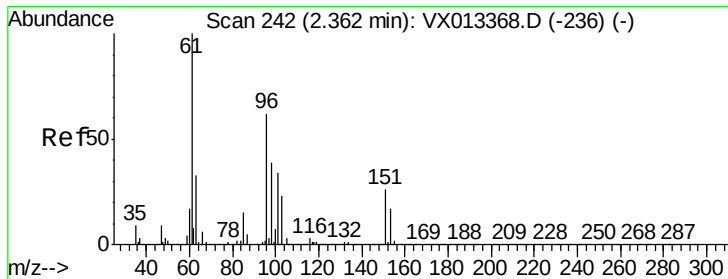
Tot Ion:128 Resp: 111945
Ion Ratio Lower Upper
128 100
49 160.3 0.0 388.3
130 134.2 0.0 318.5



#4
Vinyl Chloride
Concen: 2.850 ug/l
RT: 1.40 min Scan# 84
Delta R.T. -0.00 min
Lab File: VX013421.D
Acq: 14 Nov 2019 14:49

Tgt Ion: 62 Resp: 29607
Ion Ratio Lower Upper
62 100
64 32.1 25.4 38.2

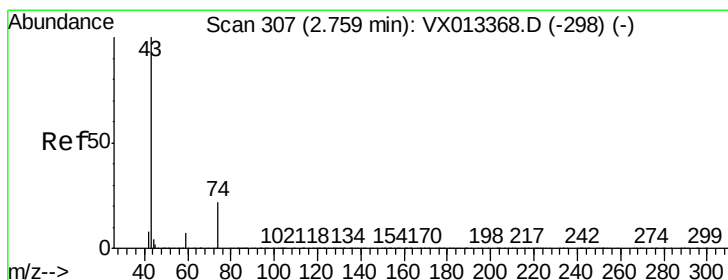
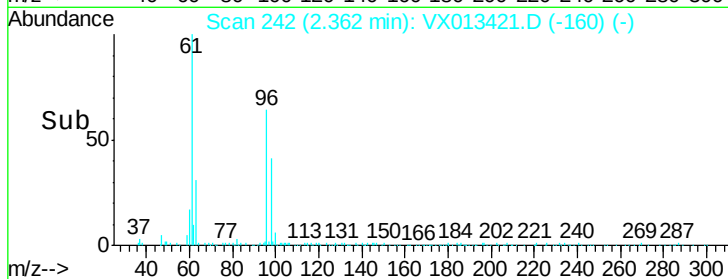
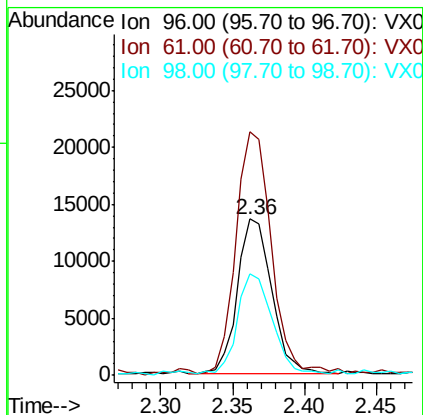
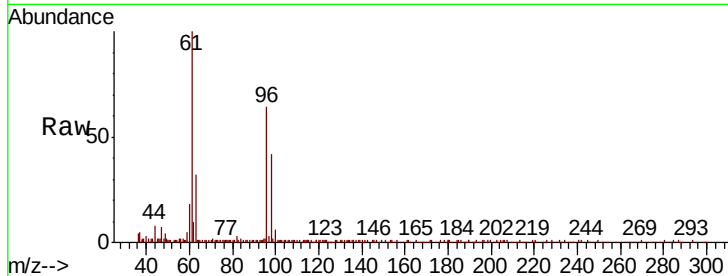




#10
 1,1-Dichloroethene
 Concen: 3.291 ug/l
 RT: 2.36 min Scan# 242
 Delta R.T. -0.00 min
 Lab File: VX013421.D
 Acq: 14 Nov 2019 14:49

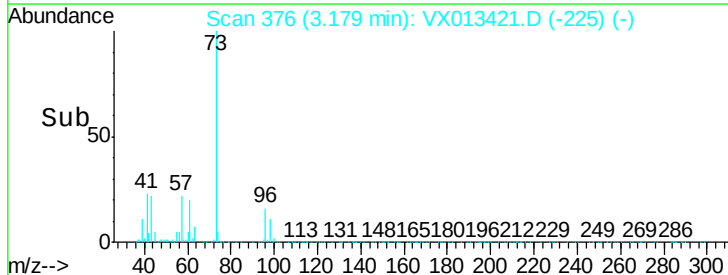
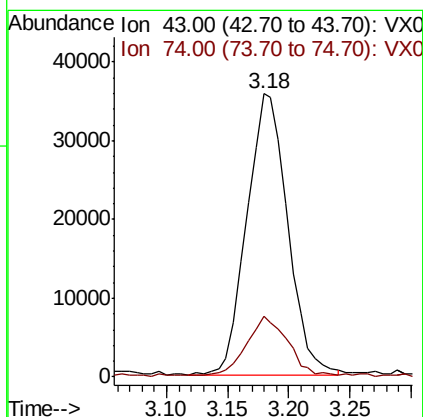
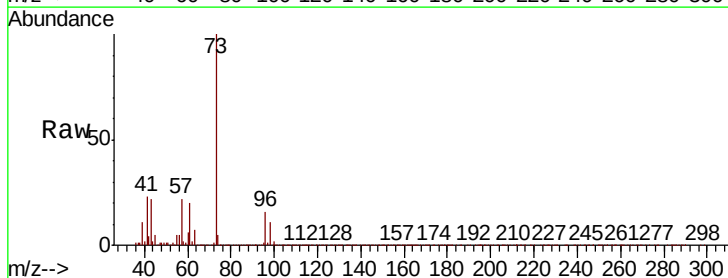
Instrument :
 MSVOA_X
 ClientSampleId :

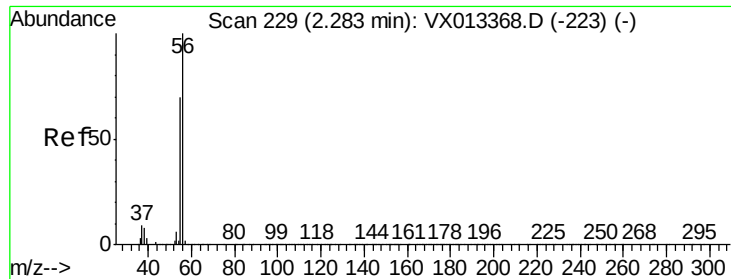
Tot Ion: 96 Resp: 22750
 Ion Ratio Lower Upper
 96 100
 61 153.3 128.9 193.3
 98 62.9 49.7 74.5



#12
 Methyl Acetate
 Concen: 6.844 ug/l
 RT: 3.18 min Scan# 376
 Delta R.T. 0.42 min
 Lab File: VX013421.D
 Acq: 14 Nov 2019 14:49

Tgt Ion: 43 Resp: 82910
 Ion Ratio Lower Upper
 43 100
 74 21.1 18.0 27.0

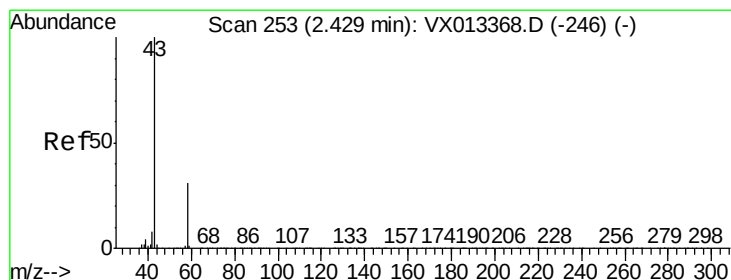
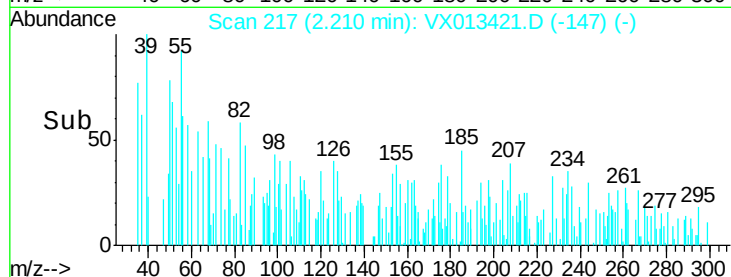
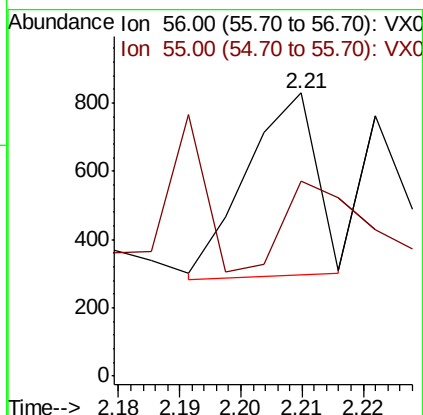
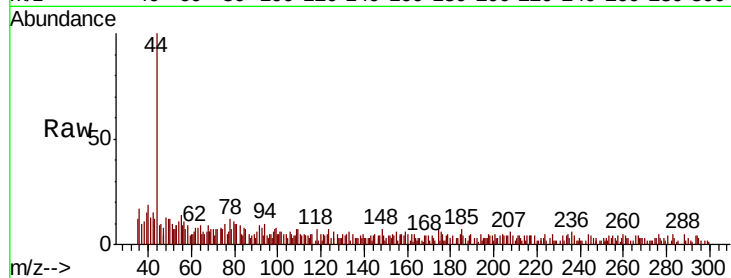




#13
Acrolein
Concen: 0.325 ug/l
RT: 2.21 min Scan# 217
Delta R.T. -0.07 min
Lab File: VX013421.D
Acq: 14 Nov 2019 14:49

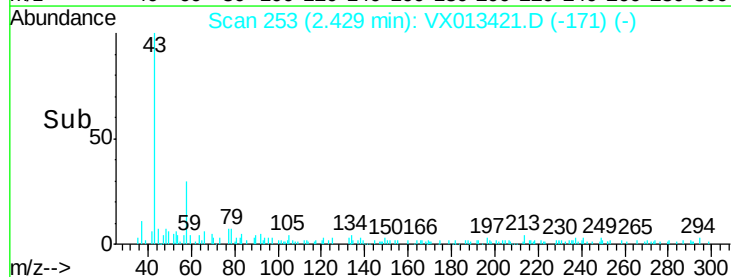
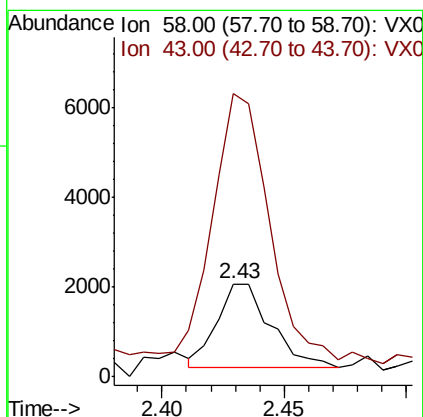
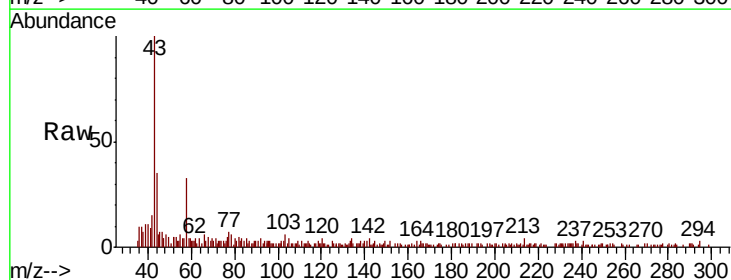
Instrument :
MSVOA_X
ClientSampleId :

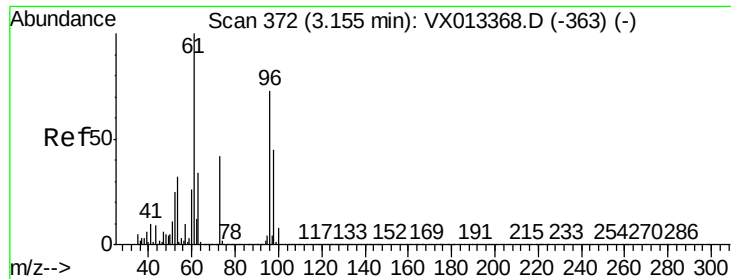
Tot Ion: 56 Resp: 418
Ion Ratio Lower Upper
56 100
55 61.0 55.8 83.8



#15
Acetone
Concen: 2.120 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.00 min
Lab File: VX013421.D
Acq: 14 Nov 2019 14:49

Tgt Ion: 58 Resp: 2861
Ion Ratio Lower Upper
58 100
43 351.9 261.4 392.2





#19

trans-1,2-Dichloroethene

Concen: 29.640 ug/l

RT: 3.15 min Scan# 372

Delta R.T. -0.00 min

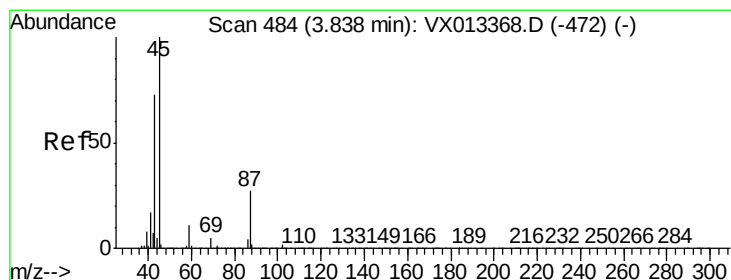
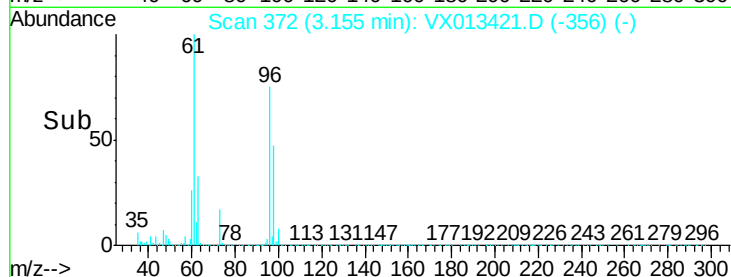
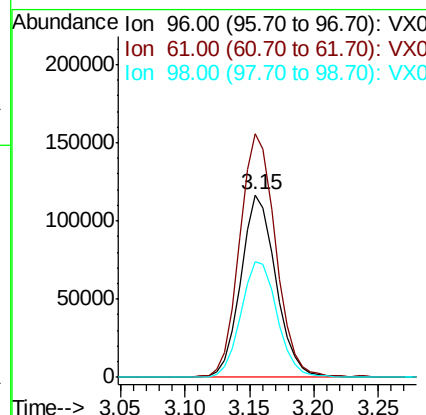
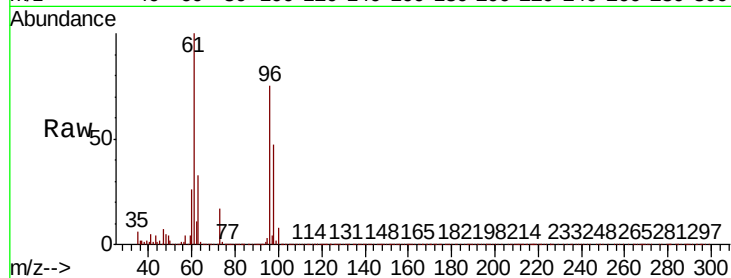
Lab File: VX013421.D

Acq: 14 Nov 2019 14:49

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 96 Resp: 219005

Ion	Ratio	Lower	Upper
96	100		
61	133.3	109.9	164.9
98	63.0	49.7	74.5



#20

Diisopropyl ether

Concen: 0.829 ug/l

RT: 3.85 min Scan# 486

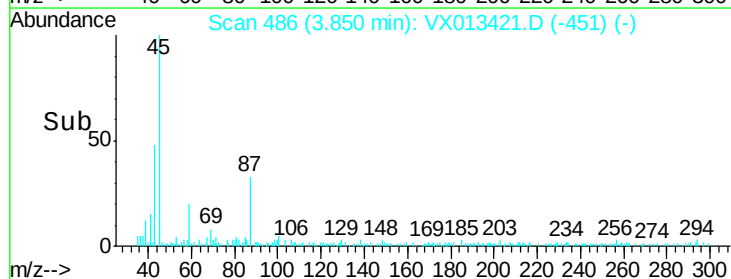
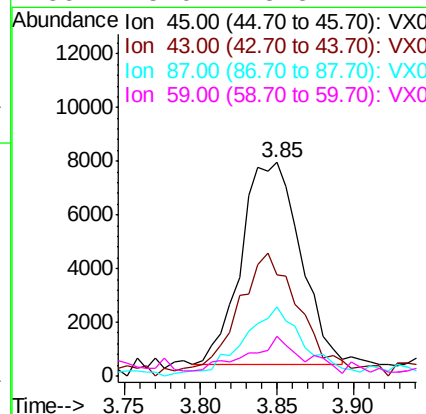
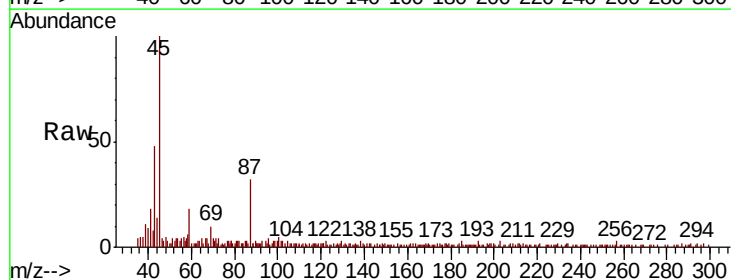
Delta R.T. 0.01 min

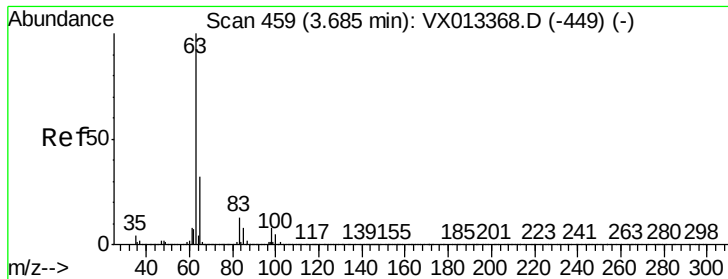
Lab File: VX013421.D

Acq: 14 Nov 2019 14:49

Tgt Ion: 45 Resp: 20294

Ion	Ratio	Lower	Upper
45	100		
43	45.6	67.7	101.5#
87	31.9	21.5	32.3
59	18.0	8.5	12.7#





#21

1,1-Dichloroethane

Concen: 0.228 ug/l

RT: 3.70 min Scan# 461

Delta R.T. 0.01 min

Lab File: VX013421.D

Acq: 14 Nov 2019 14:49

Instrument :

MSVOA_X

ClientSampleId :

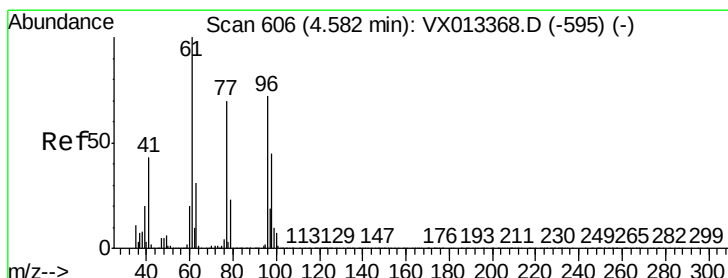
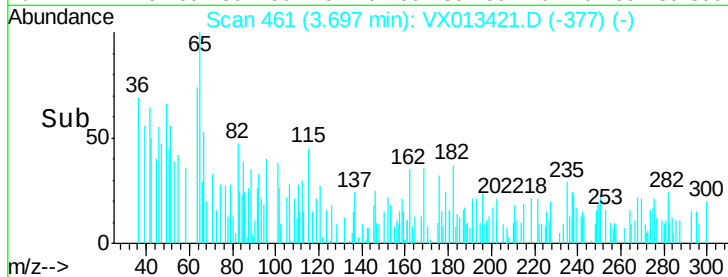
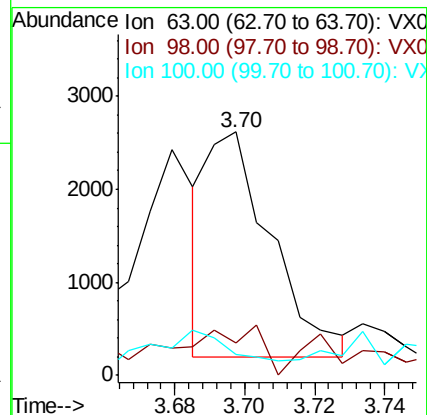
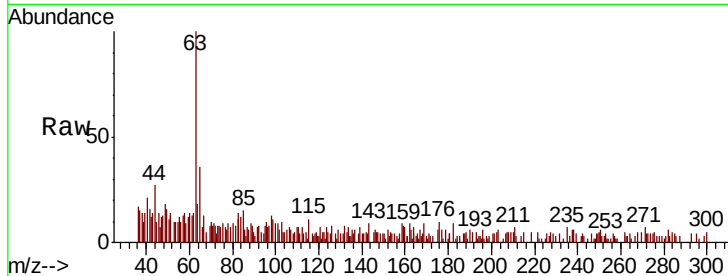
Tot Ion: 63 Resp: 3045

Ion Ratio Lower Upper

63 100

98 9.9 4.0 11.9

100 0.9 2.5 7.5#



#22

cis-1,2-Dichloroethene

Concen: 828.940 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.01 min

Lab File: VX013421.D

Acq: 14 Nov 2019 14:49

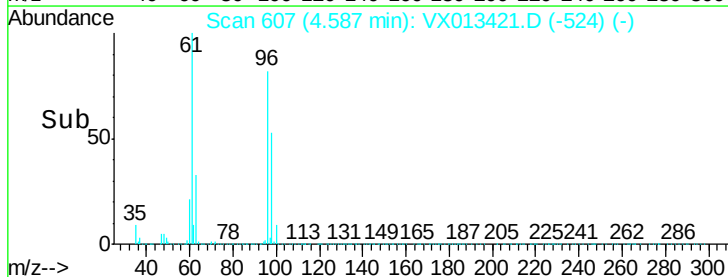
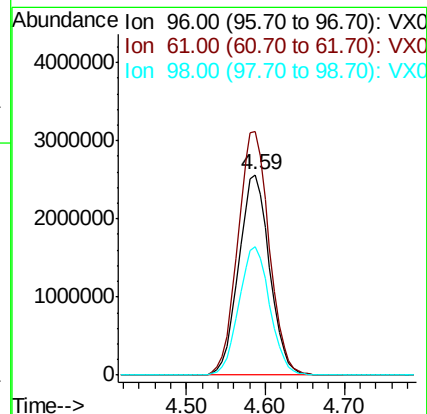
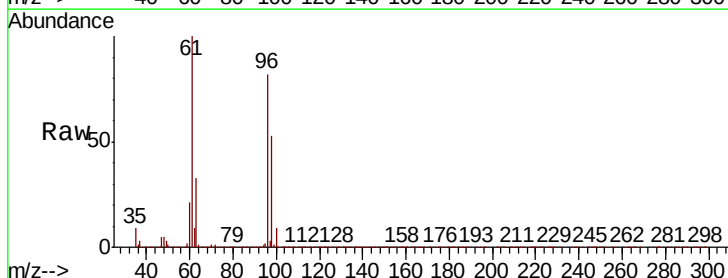
Tgt Ion: 96 Resp: 6983122

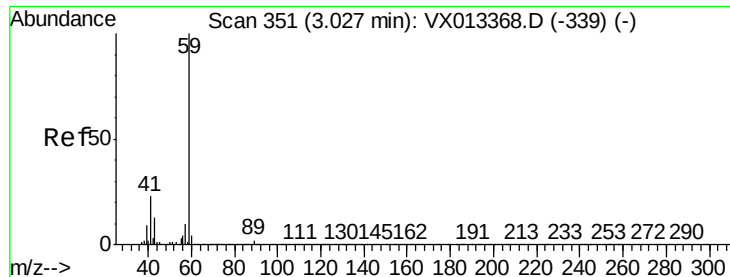
Ion Ratio Lower Upper

96 100

61 123.7 117.0 175.6

98 64.3 51.1 76.7



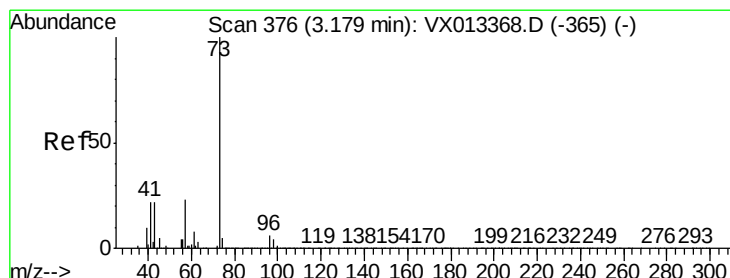
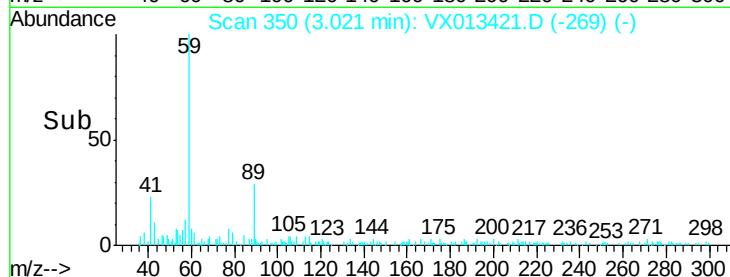
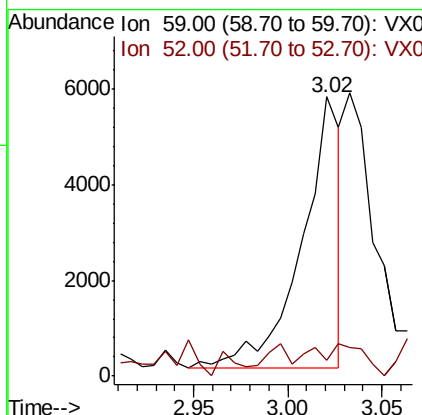
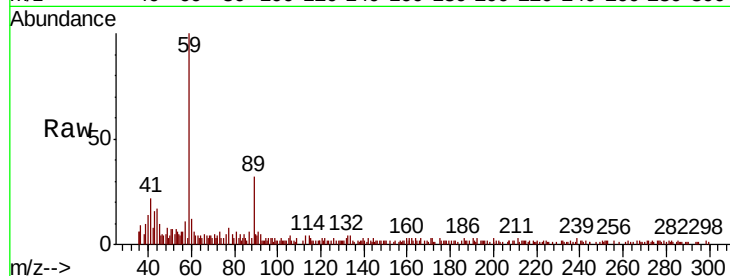


#23

tert-Butyl Alcohol
Concen: 3.759 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.01 min
Lab File: VX013421.D
Acq: 14 Nov 2019 14:49

Instrument :
MSVOA_X
ClientSampleId :

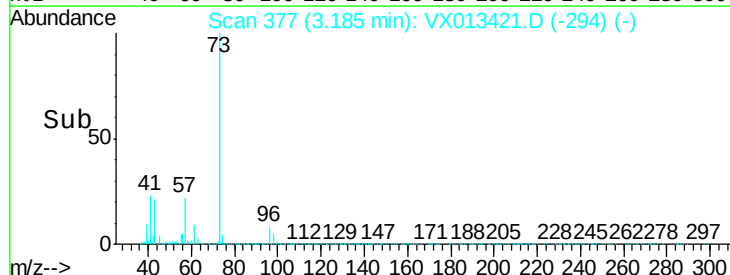
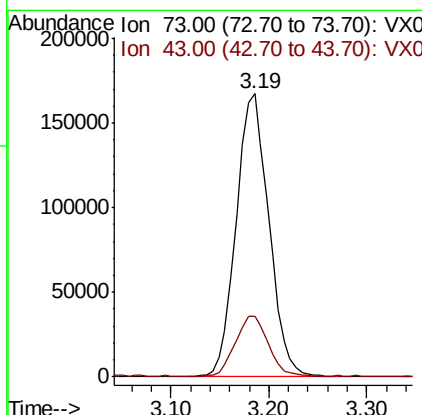
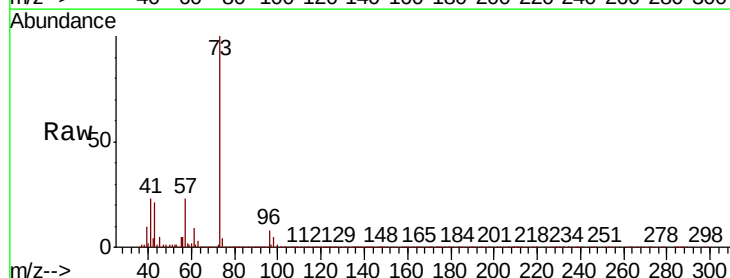
Tot Ion: 59 Resp: 8060
Ion Ratio Lower Upper
59 100
52 9.6 0.1 0.1#

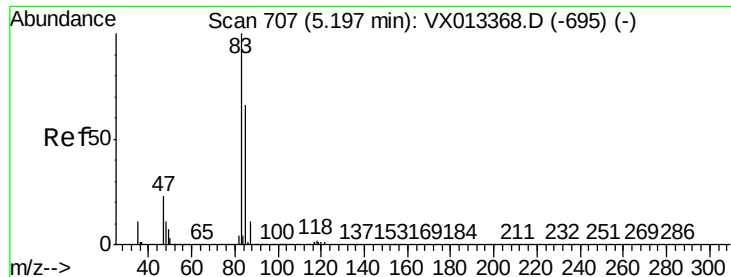


#24

Methyl tert-Butyl Ether
Concen: 17.016 ug/l
RT: 3.19 min Scan# 377
Delta R.T. 0.01 min
Lab File: VX013421.D
Acq: 14 Nov 2019 14:49

Tgt Ion: 73 Resp: 389370
Ion Ratio Lower Upper
73 100
43 21.3 17.0 25.6





#25

Chloroform

Concen: 0.244 ug/l

RT: 5.19 min Scan# 706

Delta R.T. -0.01 min

Lab File: VX013421.D

Acq: 14 Nov 2019 14:49

Instrument :

MSVOA_X

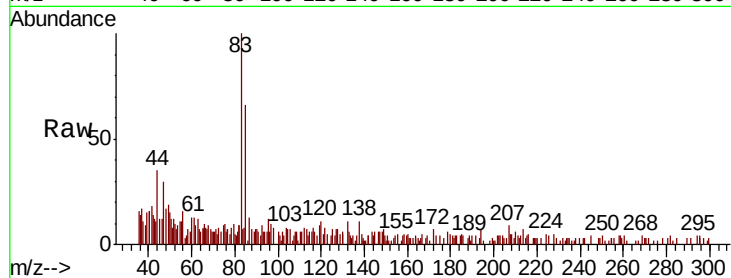
ClientSampled :

Tot Ion: 83 Resp: 3191

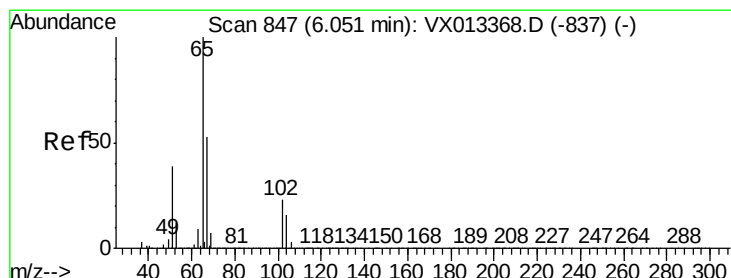
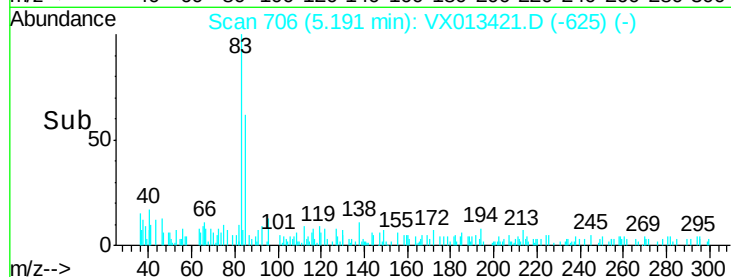
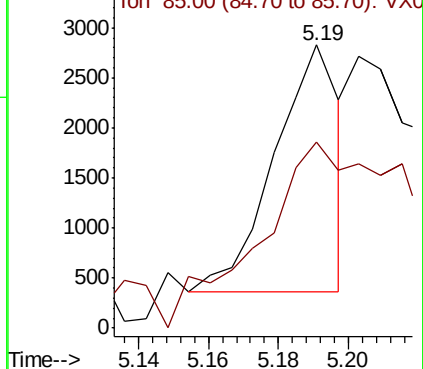
Ion Ratio Lower Upper

83 100

85 54.2 52.4 78.6



Abundance Ion 83.00 (82.70 to 83.70): VX0



#27

1,2-Dichloroethane-d4

Concen: 29.579 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013421.D

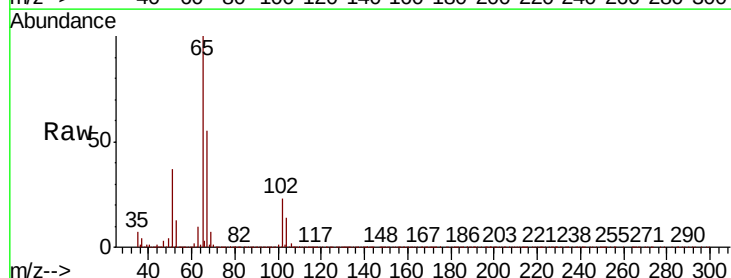
Acq: 14 Nov 2019 14:49

Tgt Ion: 65 Resp: 244506

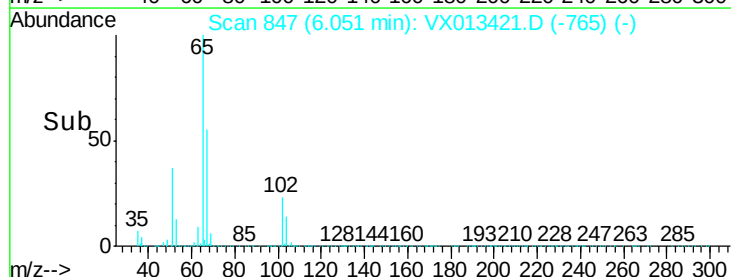
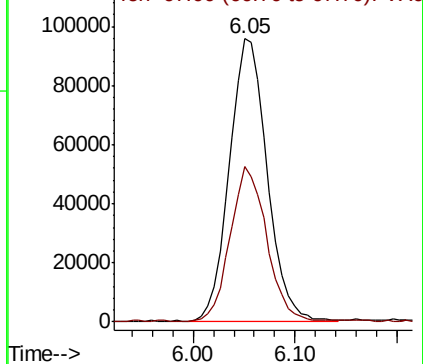
Ion Ratio Lower Upper

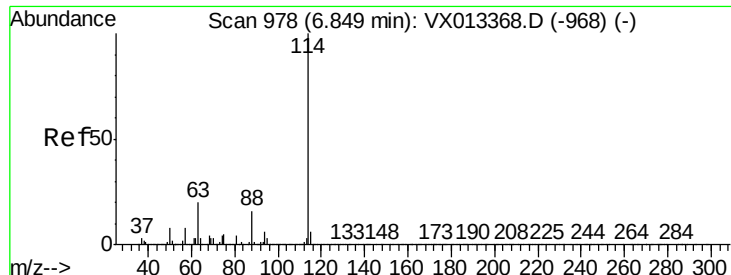
65 100

67 53.2 41.0 61.6



Abundance Ion 65.00 (64.70 to 65.70): VX0

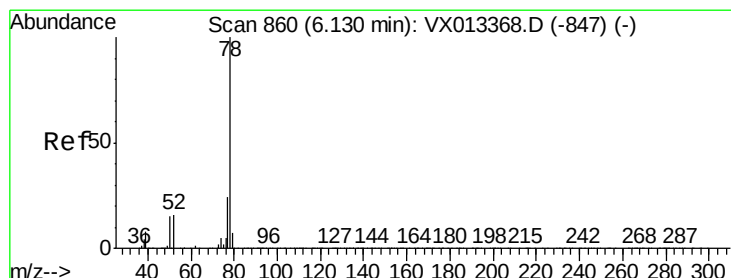
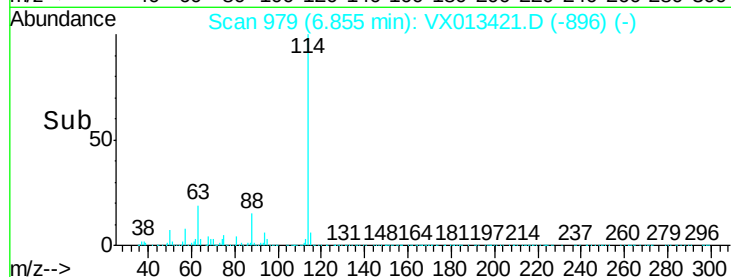
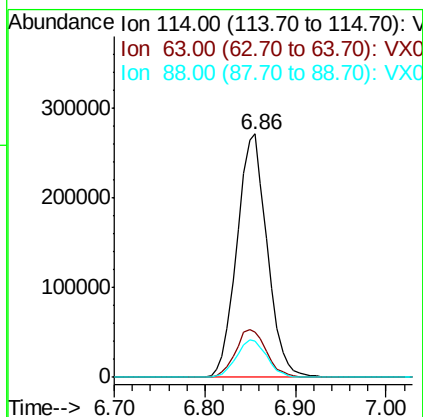
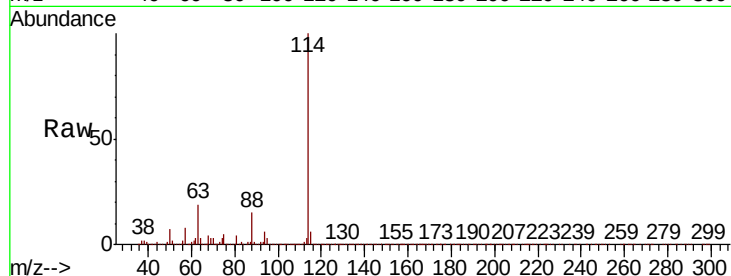




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.86 min Scan# 979
 Delta R.T. 0.01 min
 Lab File: VX013421.D
 Acq: 14 Nov 2019 14:49

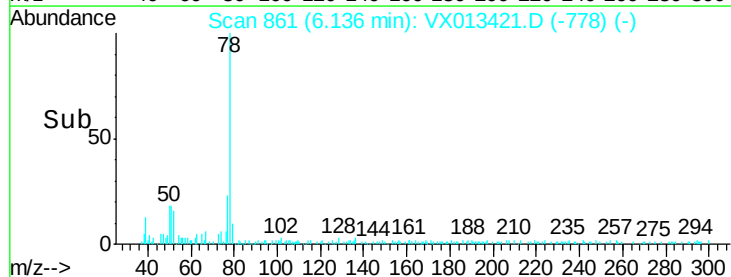
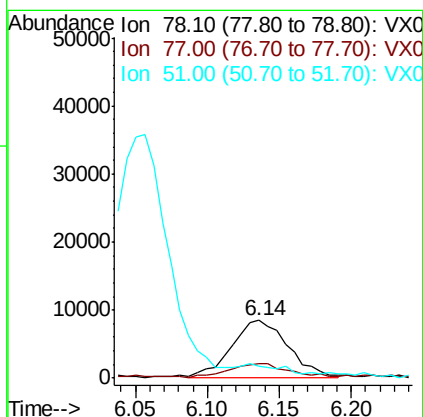
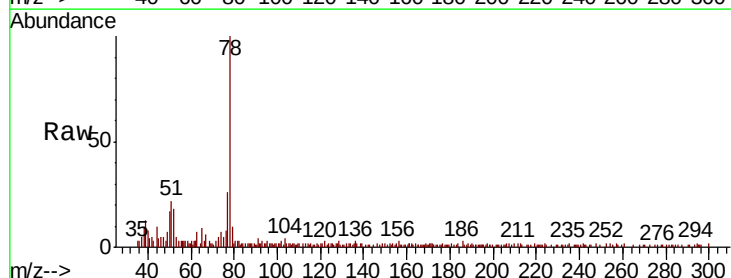
Instrument :
 MSVOA_X
 ClientSampleId :

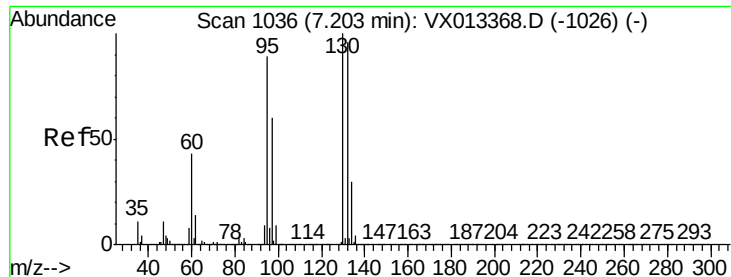
Tot Ion	Ratio	Lower	Upper
114	100		
63	19.9	16.1	24.1
88	15.4	12.3	18.5



#34
 Benzene
 Concen: 0.798 ug/l
 RT: 6.14 min Scan# 861
 Delta R.T. 0.01 min
 Lab File: VX013421.D
 Acq: 14 Nov 2019 14:49

Tgt Ion	Ratio	Lower	Upper
78	100		
77	27.2	19.3	28.9
51	14.8	12.2	18.4





#37

Trichloroethene

Concen: 186.001 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013421.D

Acq: 14 Nov 2019 14:49

Instrument :

MSVOA_X

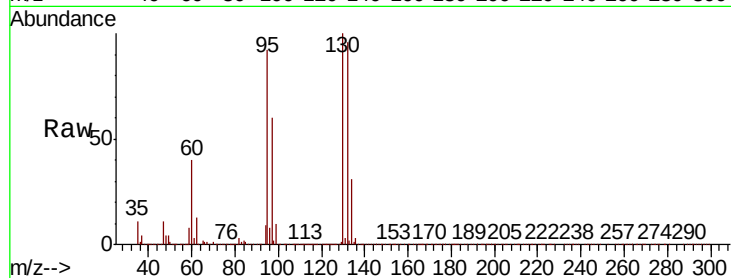
ClientSampled :

Tot Ion:130 Resp: 1442679

Ion Ratio Lower Upper

130 100

95 92.3 71.3 106.9



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

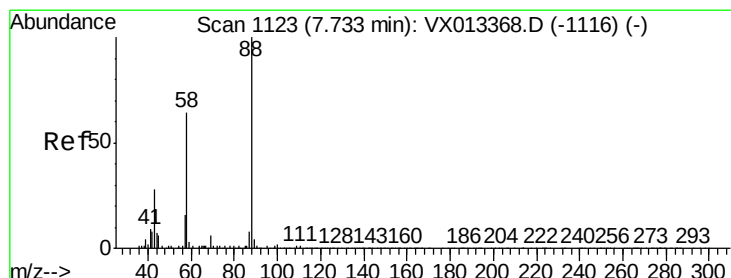
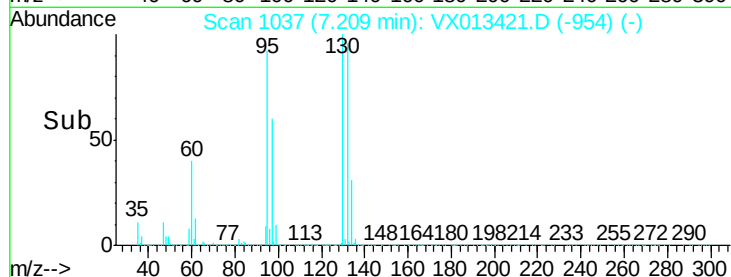
600000

400000

200000

0

Time--> 7.10 7.15 7.20 7.25 7.30



#45

1,4-Dioxane

Concen: 1.020 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VX013421.D

Acq: 14 Nov 2019 14:49

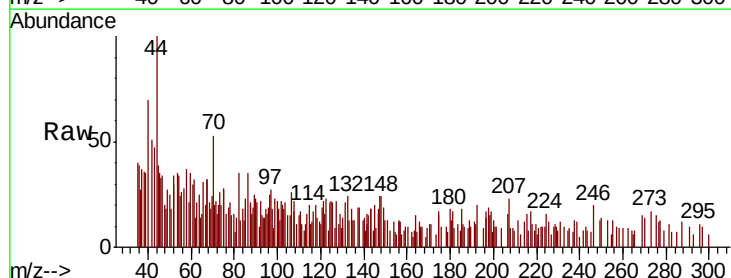
Tgt Ion: 88 Resp: 208

Ion Ratio Lower Upper

88 100

43 84.6 26.1 39.1#

58 131.7 55.8 83.8#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

1000

800

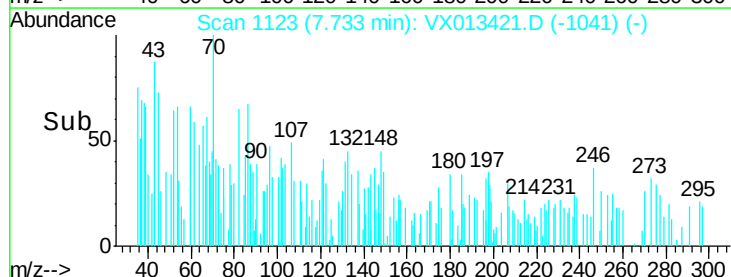
600

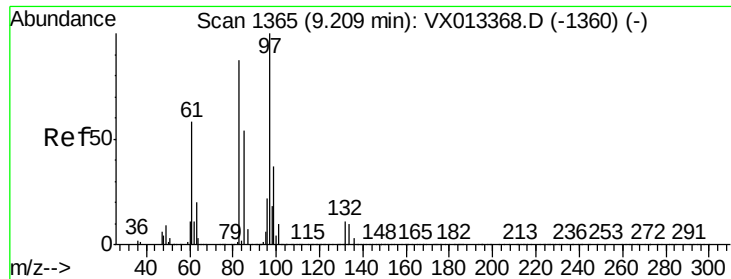
400

200

0

Time--> 7.72 7.73 7.74 7.75

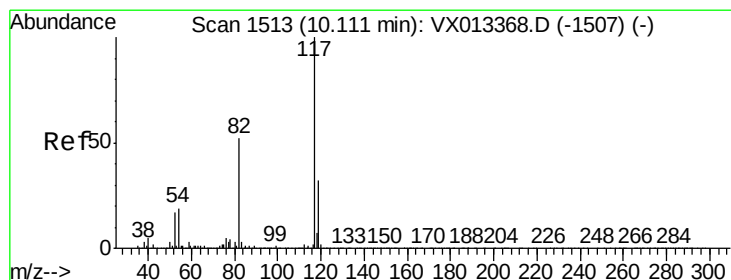
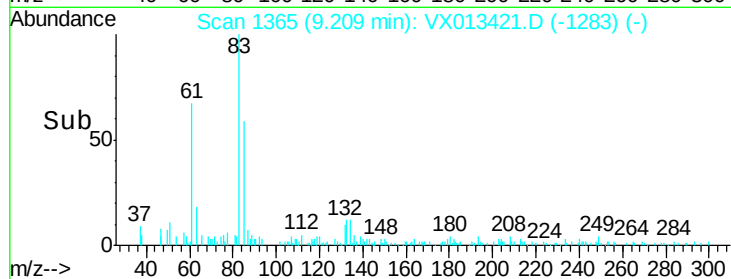
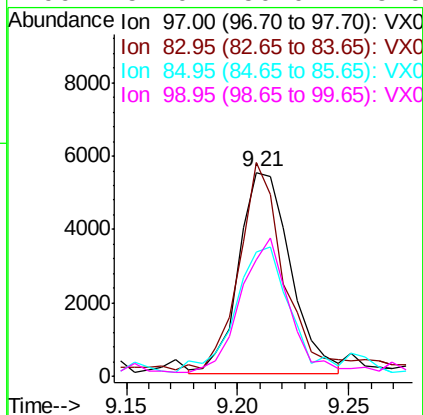
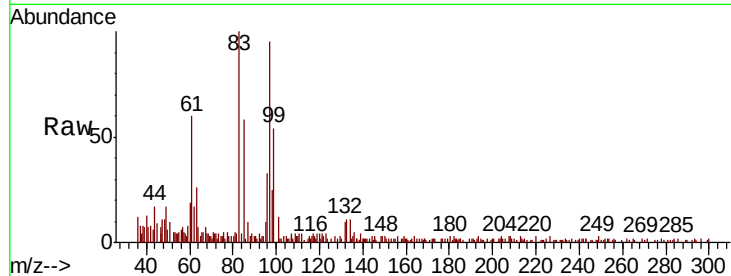




#50
 1,1,2-Trichloroethane
 Concen: 1.206 ug/l
 RT: 9.21 min Scan# 1365
 Delta R.T. -0.00 min
 Lab File: VX013421.D
 Acq: 14 Nov 2019 14:49

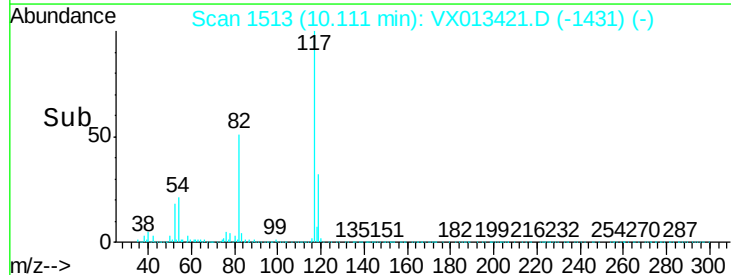
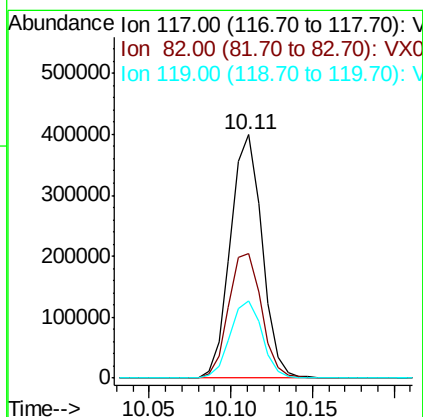
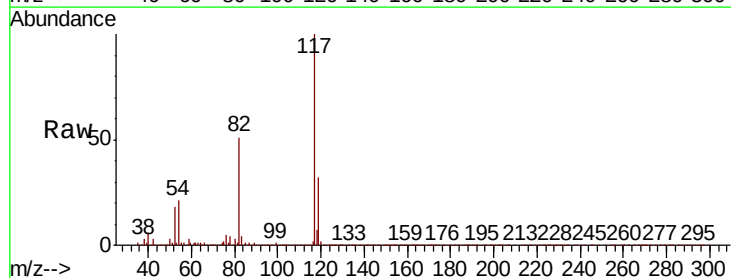
Instrument :
 MSVOA_X
 ClientSampleId :

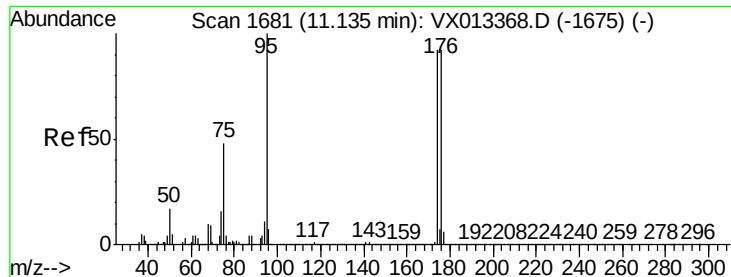
Tot Ion:	97	Resp:	8889
Ion	Ratio	Lower	Upper
97	100		
83	102.7	69.6	104.4
85	57.4	45.5	68.3
99	57.0	50.0	75.0



#57
 Chlorobenzene-d5
 Concen: 30.000 ug/l
 RT: 10.11 min Scan# 1513
 Delta R.T. -0.00 min
 Lab File: VX013421.D
 Acq: 14 Nov 2019 14:49

Tgt Ion:	117	Resp:	540617
Ion	Ratio	Lower	Upper
117	100		
82	53.3	43.7	65.5
119	31.9	25.5	38.3

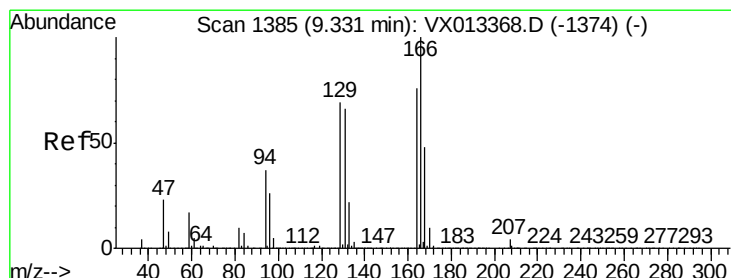
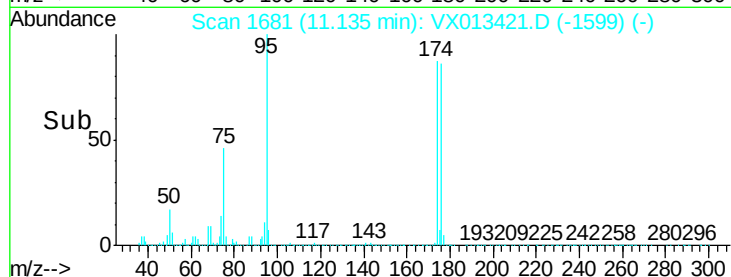
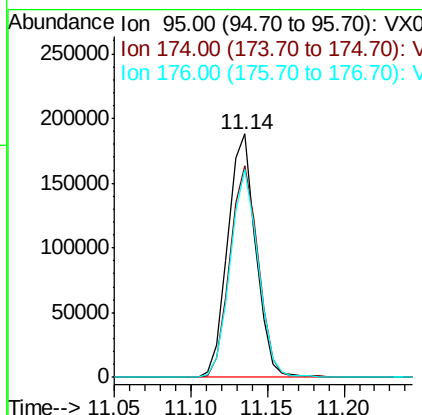
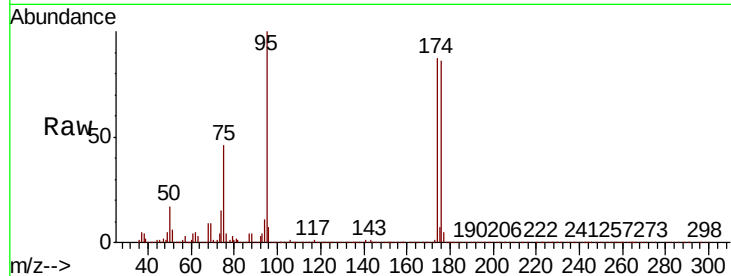




#60
4-Bromofluorobenzene
Concen: 27.495 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VX013421.D
Acq: 14 Nov 2019 14:49

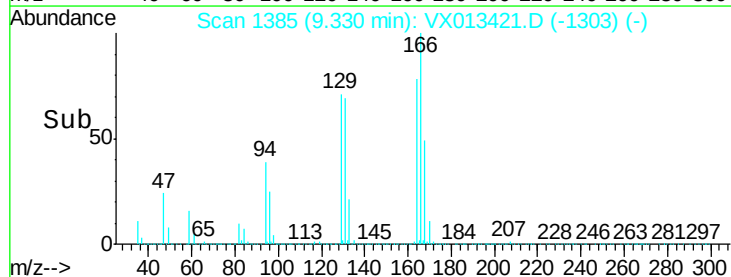
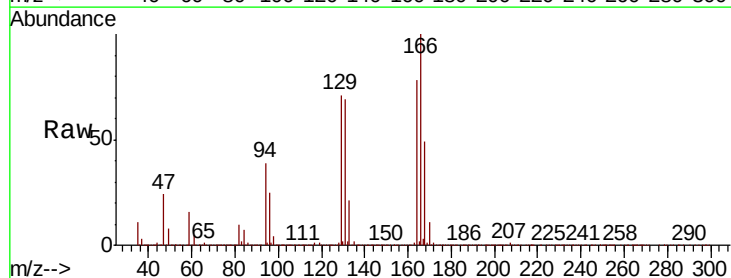
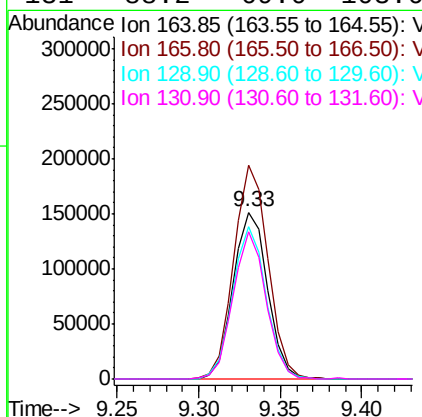
Instrument :
MSVOA_X
ClientSampleId :

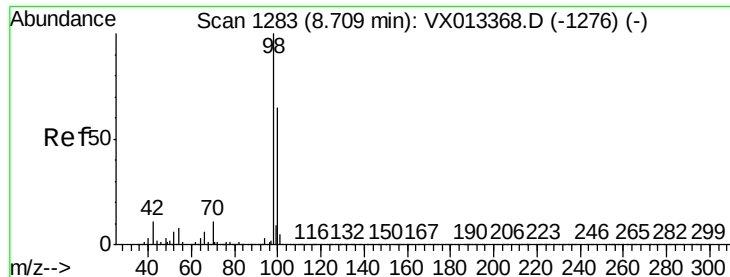
Tot Ion	Ratio	Lower	Upper
95	100		
174	88.1	70.2	105.2
176	84.9	68.3	102.5



#61
Tetrachloroethene
Concen: 33.372 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VX013421.D
Acq: 14 Nov 2019 14:49

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.3	104.9	157.3
129	91.1	72.3	108.5
131	88.2	69.0	103.6





#63

Toluene-d8

Concen: 30.477 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013421.D

Acq: 14 Nov 2019 14:49

Instrument :

MSVOA_X

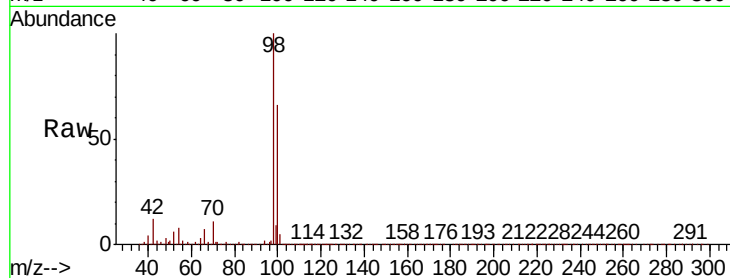
ClientSampleId :

Tot Ion: 98 Resp: 745051

Ion Ratio Lower Upper

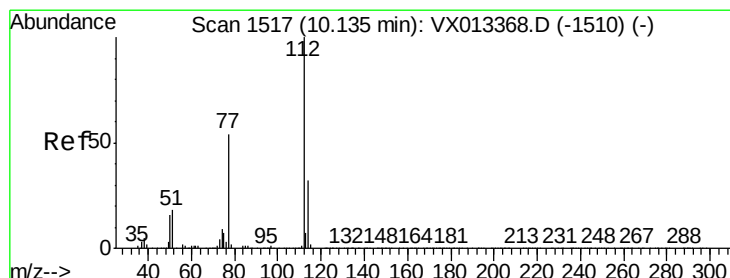
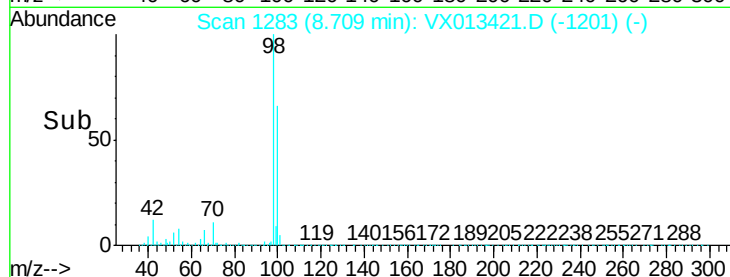
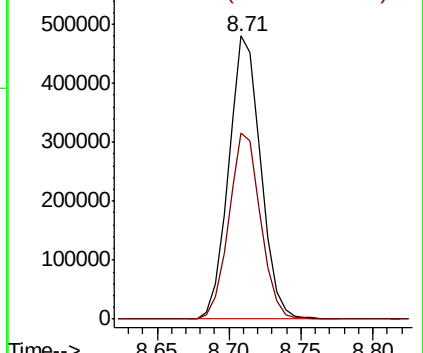
98 100

100 65.4 52.5 78.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#64

Chlorobenzene

Concen: 0.371 ug/l

RT: 10.14 min Scan# 1517

Delta R.T. -0.00 min

Lab File: VX013421.D

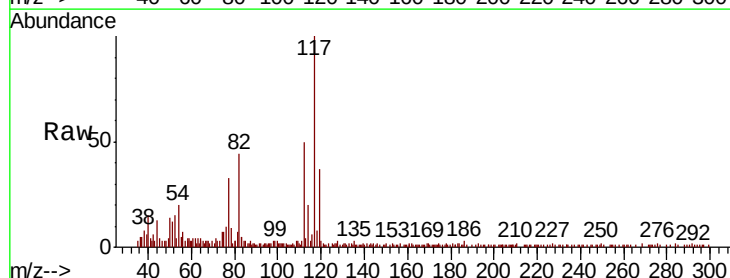
Acq: 14 Nov 2019 14:49

Tgt Ion: 112 Resp: 6983

Ion Ratio Lower Upper

112 100

114 34.2 25.7 38.5



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

