

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111419\
 Data File : VX013419.D
 Acq On : 14 Nov 2019 14:02
 Operator : JC/SP
 Sample : K5828-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 15 00:55:52 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	118152	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	647484	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	559795	30.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane-d4		6.06	65	251035	28.77	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.90%	
60) 4-Bromofluorobenzene		11.14	95	244421	27.17	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	90.57%	
63) Toluene-d8		8.71	98	763598	30.17	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.57%	

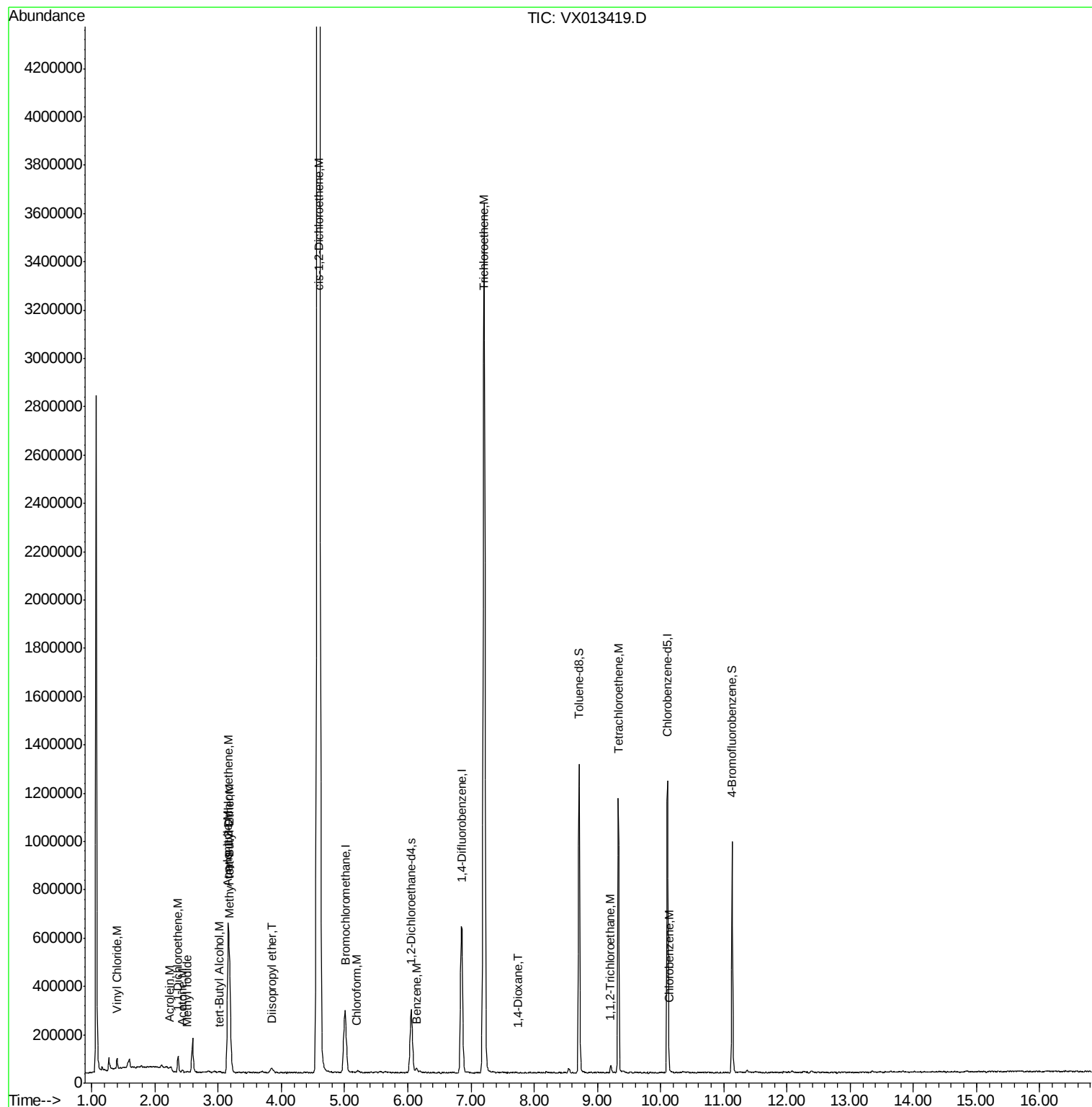
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
4) Vinyl Chloride	1.40	62	28161	2.569	ug/l	97
10) 1,1-Dichloroethene	2.36	96	23510	3.222	ug/l	94
11) Methyl Iodide	2.51	142	2081	0.231	ug/l #	60
13) Acrolein	2.23	56	502	0.370	ug/l	92
14) Acrylonitrile	3.15	53	1749	0.372	ug/l #	79
15) Acetone	2.44	58	4154	2.917	ug/l	78
19) trans-1,2-Dichloroethene	3.16	96	223756	28.692	ug/l	97
20) Diisopropyl ether	3.85	45	21565	0.834	ug/l #	68
22) cis-1,2-Dichloroethene	4.59	96	7064577	794.553	ug/l	87
23) tert-Butyl Alcohol	3.03	59	2990	1.321	ug/l #	95
24) Methyl tert-Butyl Ether	3.19	73	393484	16.293	ug/l	99
25) Chloroform	5.20	83	3759	0.273	ug/l	96
34) Benzene	6.14	78	23408	0.780	ug/l	96
37) Trichloroethene	7.21	130	1446118	179.951	ug/l	95
45) 1,4-Dioxane	7.75	88	440	2.082	ug/l	94
50) 1,1,2-Trichloroethane	9.21	97	9353	1.224	ug/l	90
61) Tetrachloroethene	9.33	164	227891	33.014	ug/l	94
64) Chlorobenzene	10.14	112	8234	0.422	ug/l	90

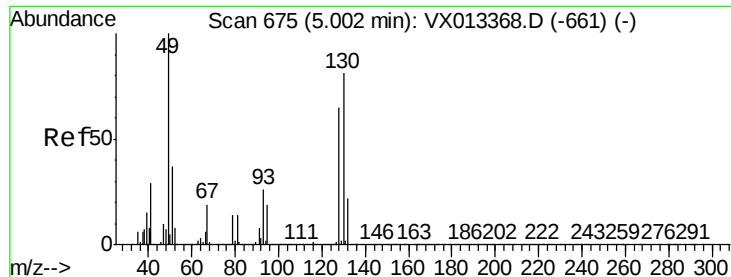
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\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





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.01 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX013419.D

Acq: 14 Nov 2019 14:02

Instrument :

MSVOA_X

ClientSampled :

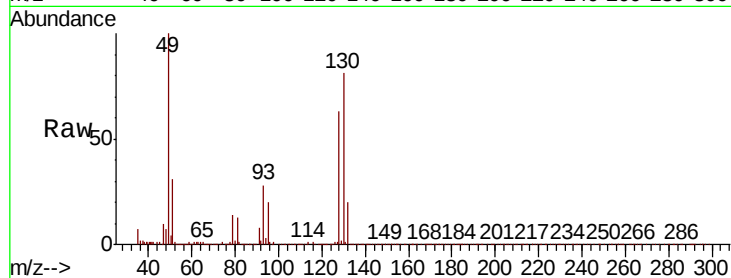
Tot Ion:128 Resp: 118152

Ion Ratio Lower Upper

128 100

49 154.7 0.0 388.3

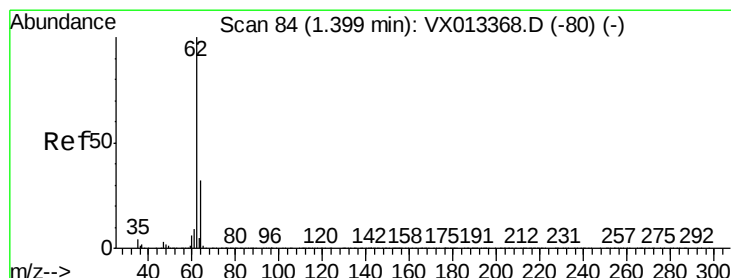
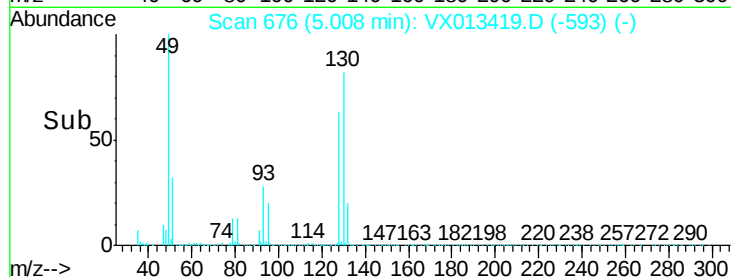
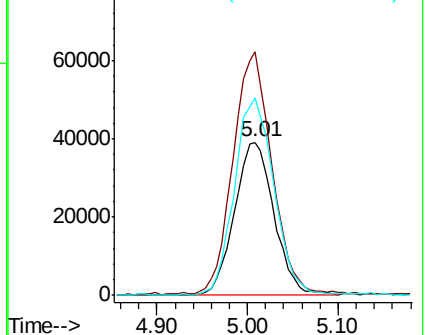
130 128.4 0.0 318.5



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



#4

Vinyl Chloride

Concen: 2.569 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX013419.D

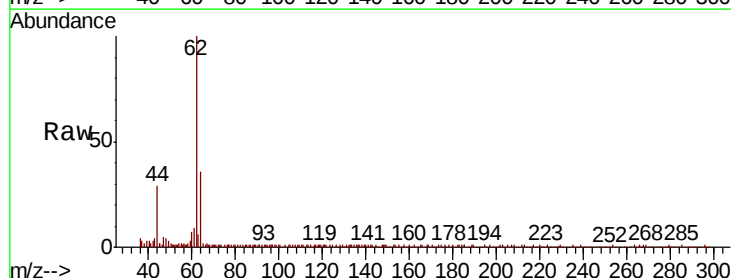
Acq: 14 Nov 2019 14:02

Tgt Ion: 62 Resp: 28161

Ion Ratio Lower Upper

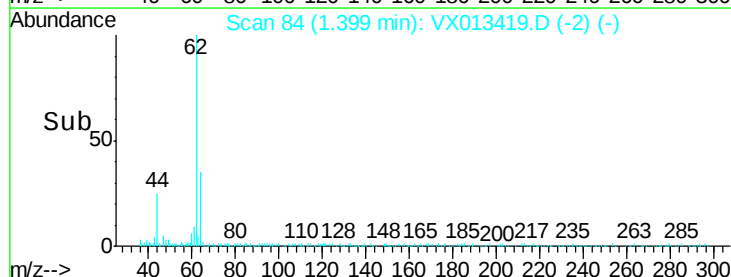
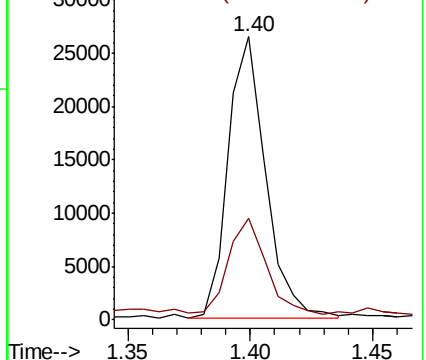
62 100

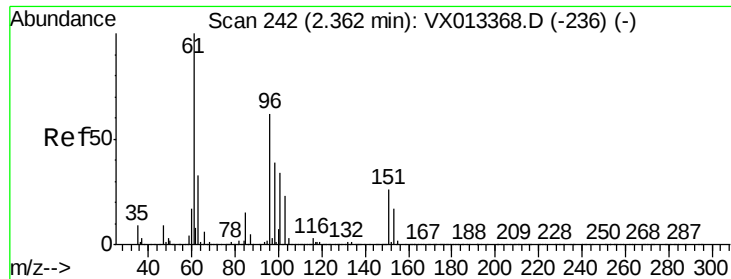
64 33.6 25.4 38.2



Abundance Ion 62.00 (61.70 to 62.70): VX0

Ion 64.00 (63.70 to 64.70): VX0

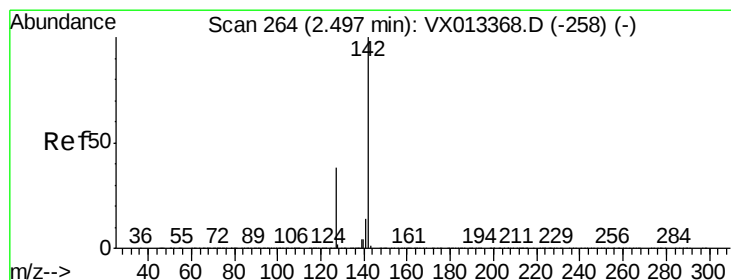
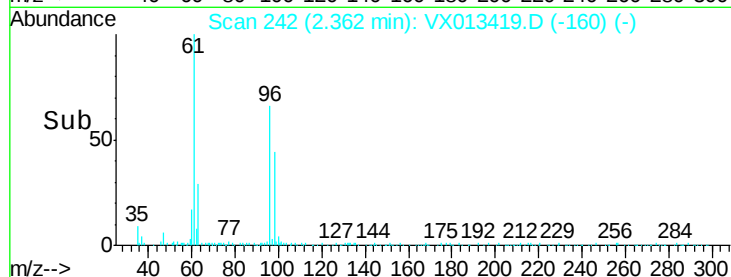
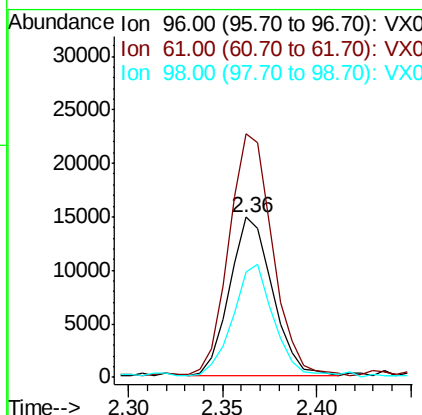
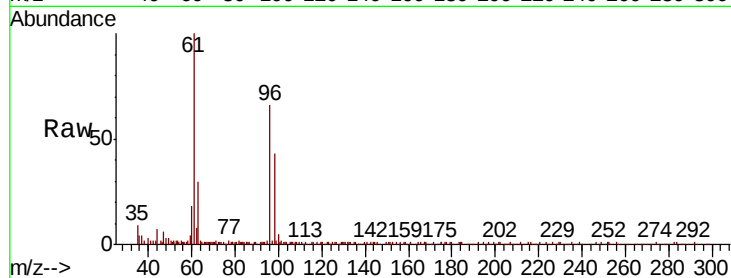




#10
 1,1-Dichloroethene
 Concen: 3.222 ug/l
 RT: 2.36 min Scan# 242
 Delta R.T. 0.00 min
 Lab File: VX013419.D
 Acq: 14 Nov 2019 14:02

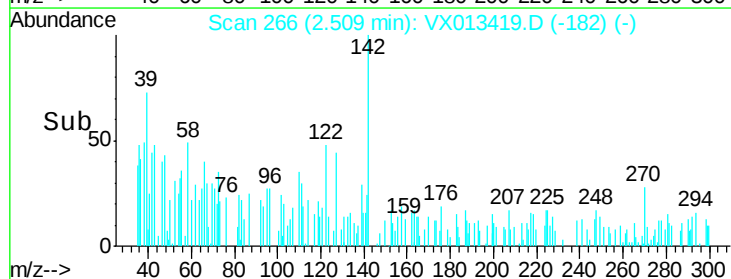
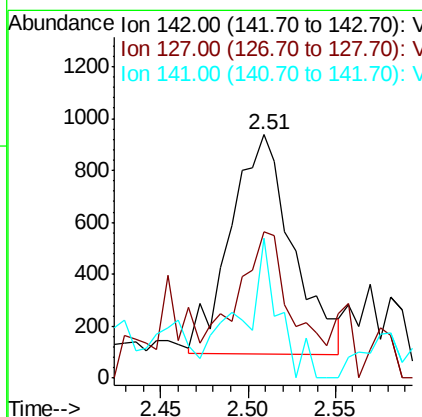
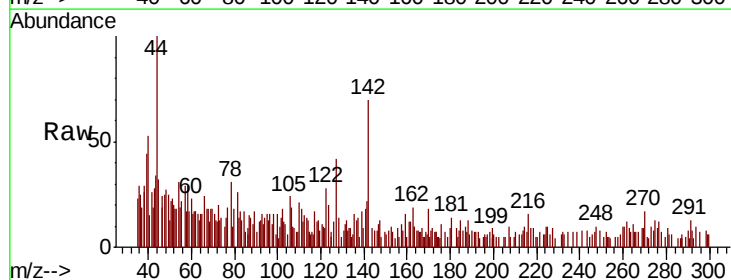
Instrument :
 MSVOA_X
 ClientSampled :

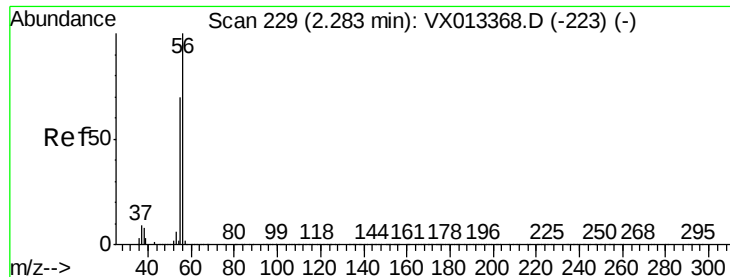
Tot Ion: 96 Resp: 23510
 Ion Ratio Lower Upper
 96 100
 61 151.5 128.9 193.3
 98 65.6 49.7 74.5



#11
 Methyl Iodide
 Concen: 0.231 ug/l
 RT: 2.51 min Scan# 266
 Delta R.T. 0.01 min
 Lab File: VX013419.D
 Acq: 14 Nov 2019 14:02

Tgt Ion: 142 Resp: 2081
 Ion Ratio Lower Upper
 142 100
 127 42.6 19.1 57.5
 141 66.6 7.0 21.0#





#13

Acrolein

Concen: 0.370 ug/l

RT: 2.23 min Scan# 220

Delta R.T. -0.05 min

Lab File: VX013419.D

Acq: 14 Nov 2019 14:02

Instrument :

MSVOA_X

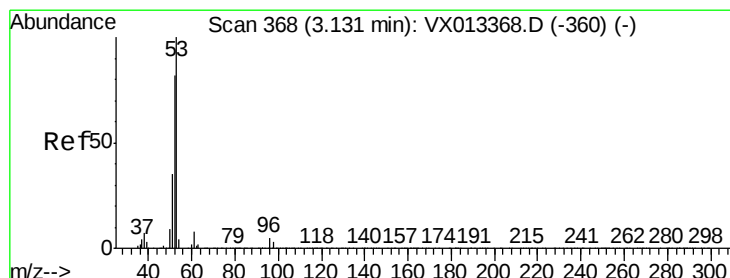
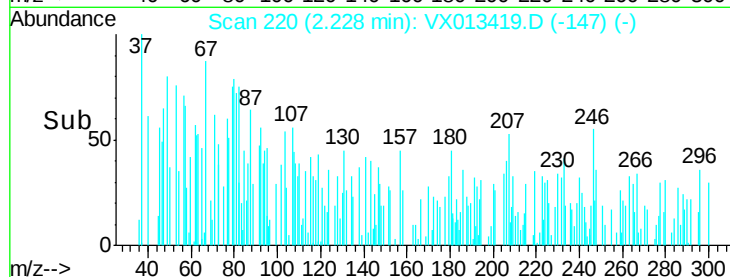
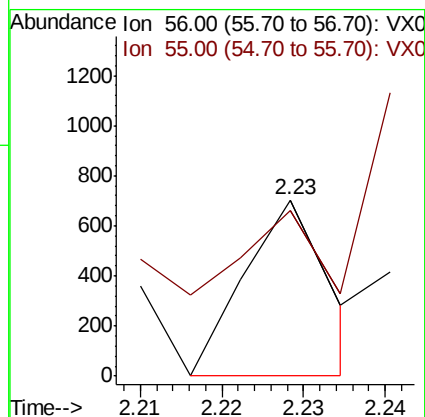
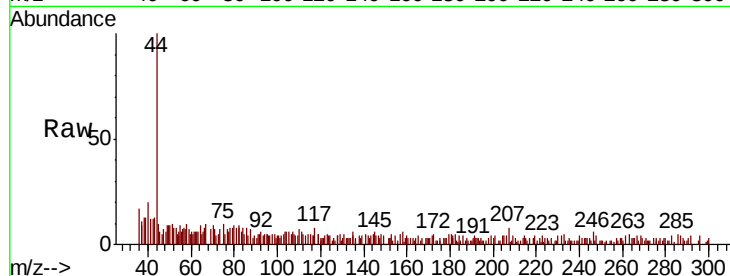
ClientSampled :

Tot Ion: 56 Resp: 502

Ion Ratio Lower Upper

56 100

55 76.7 55.8 83.8



#14

Acrylonitrile

Concen: 0.372 ug/l

RT: 3.15 min Scan# 371

Delta R.T. 0.02 min

Lab File: VX013419.D

Acq: 14 Nov 2019 14:02

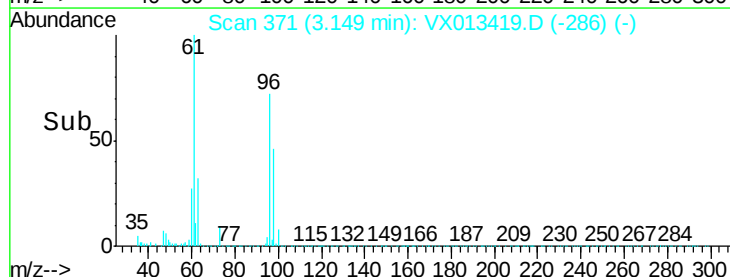
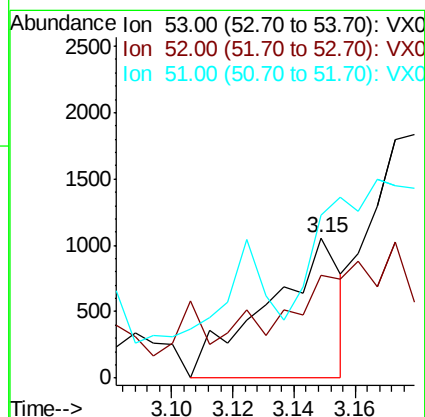
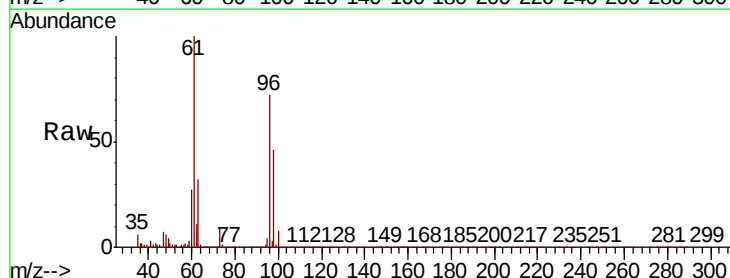
Tgt Ion: 53 Resp: 1749

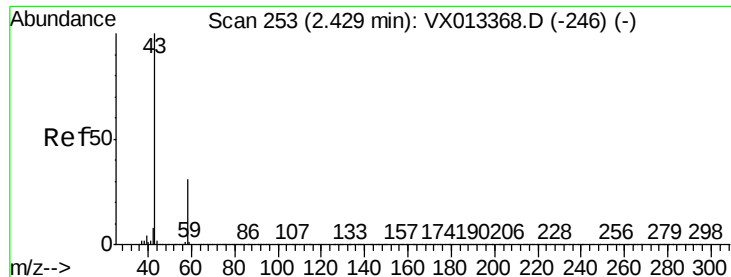
Ion Ratio Lower Upper

53 100

52 70.6 41.0 123.0

51 57.6 17.3 51.9#





#15

Acetone

Concen: 2.917 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.01 min

Lab File: VX013419.D

Acq: 14 Nov 2019 14:02

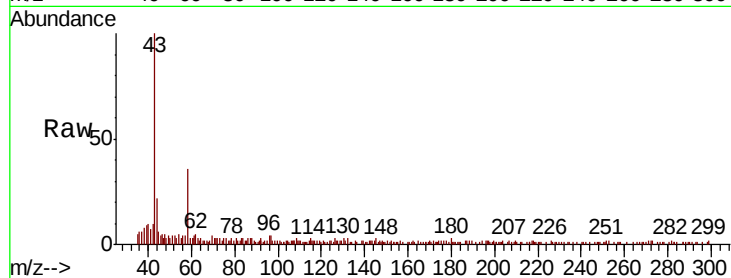
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 58 Resp: 4154

Ion Ratio Lower Upper

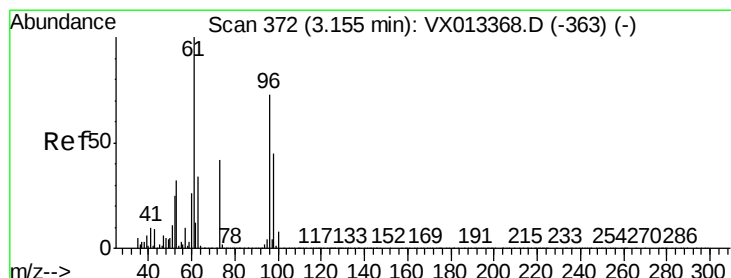
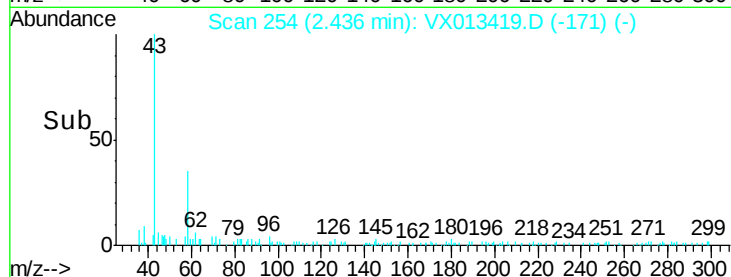
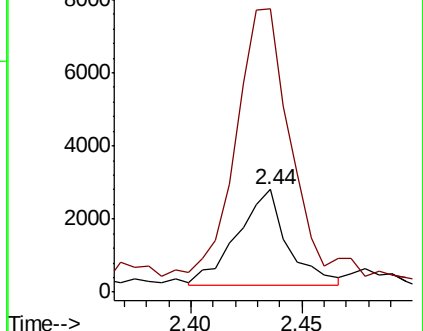
58 100

43 281.7 261.4 392.2



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#19

trans-1,2-Dichloroethene

Concen: 28.692 ug/l

RT: 3.16 min Scan# 372

Delta R.T. 0.00 min

Lab File: VX013419.D

Acq: 14 Nov 2019 14:02

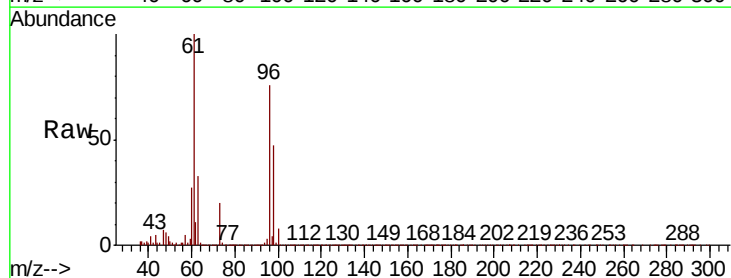
Tgt Ion: 96 Resp: 223756

Ion Ratio Lower Upper

96 100

61 132.1 109.9 164.9

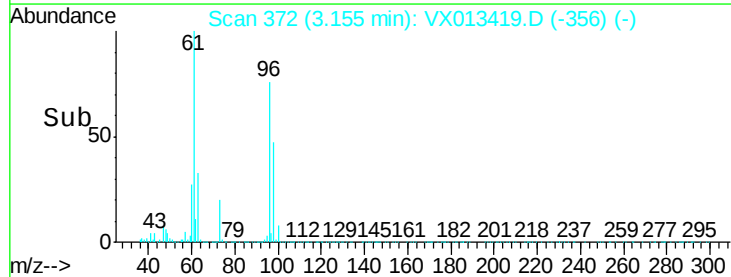
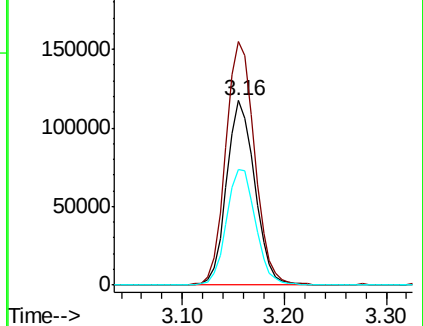
98 62.5 49.7 74.5

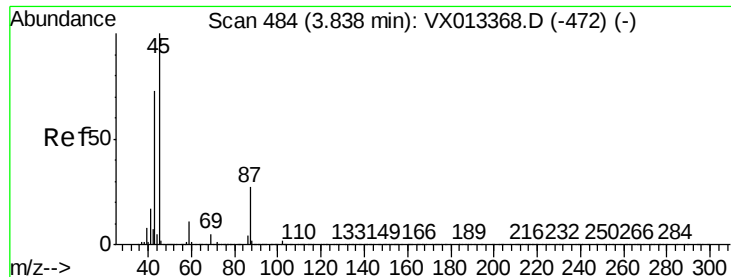


Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

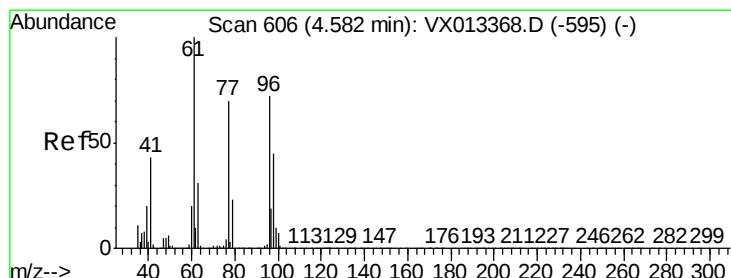
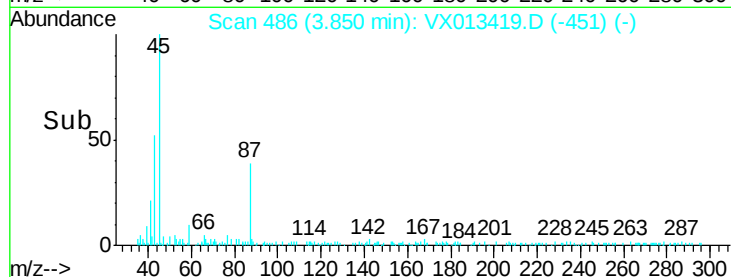
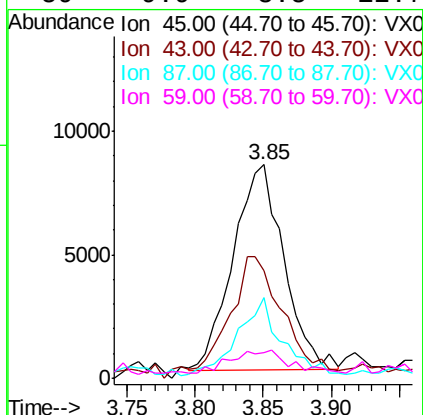
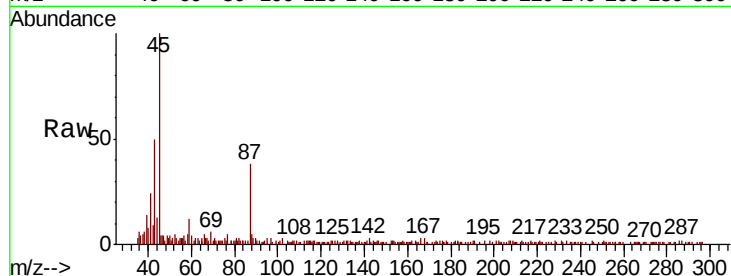




#20
Diisopropyl ether
Concen: 0.834 ug/l
RT: 3.85 min Scan# 486
Delta R.T. 0.01 min
Lab File: VX013419.D
Acq: 14 Nov 2019 14:02

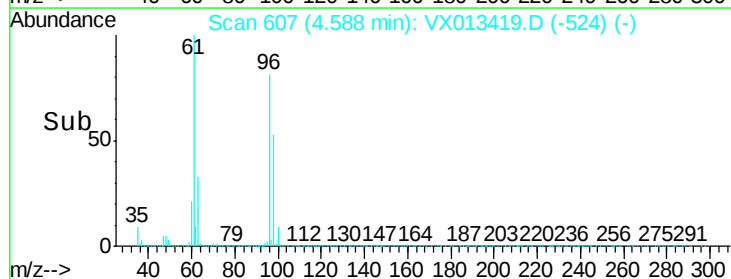
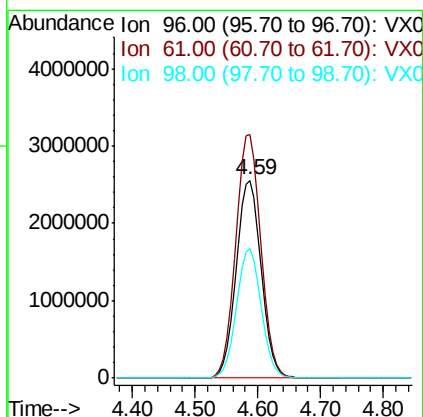
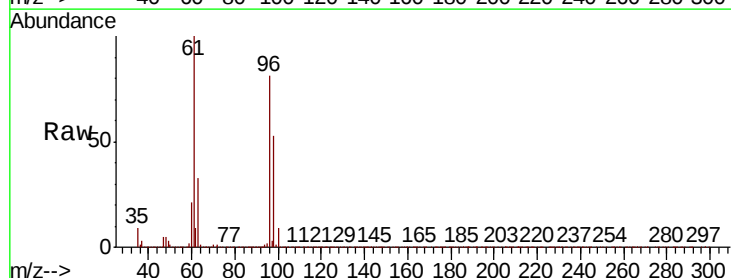
Instrument :
MSVOA_X
ClientSampleId :

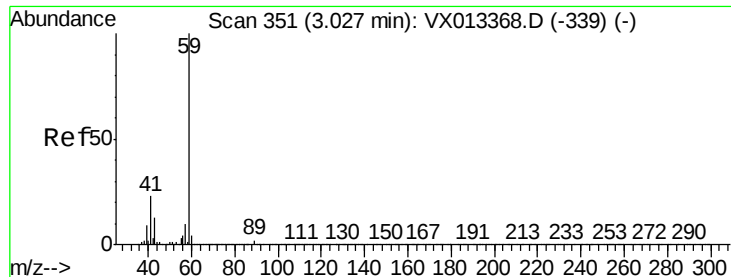
Tot Ion:	45	Resp:	21565
Ion	Ratio	Lower	Upper
45	100		
43	48.9	67.7	101.5#
87	37.9	21.5	32.3#
59	9.9	8.5	12.7



#22
cis-1,2-Dichloroethene
Concen: 794.553 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.01 min
Lab File: VX013419.D
Acq: 14 Nov 2019 14:02

Tgt Ion:	96	Resp:	7064577
Ion	Ratio	Lower	Upper
96	100		
61	123.9	117.0	175.6
98	64.6	51.1	76.7



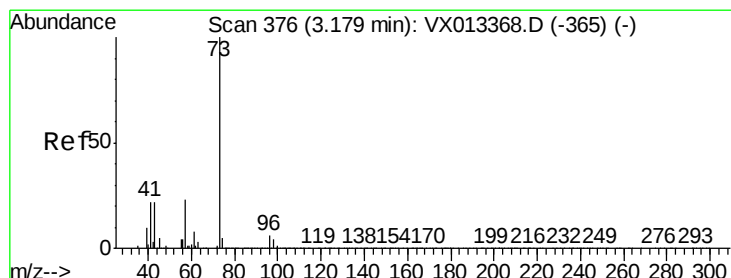
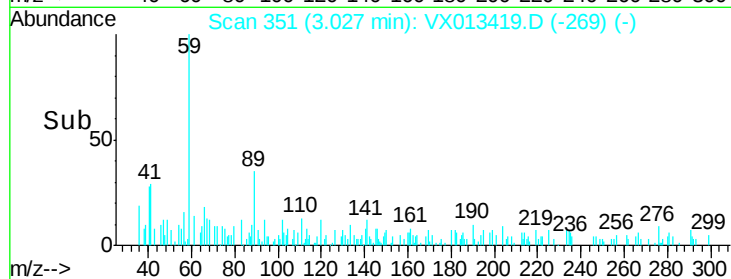
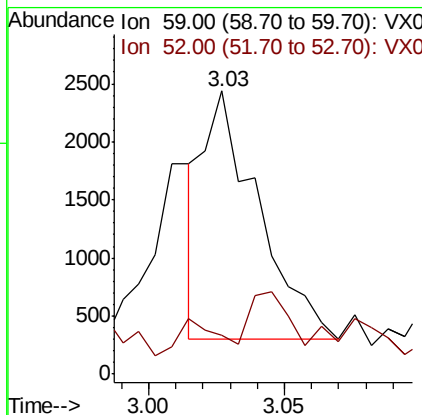
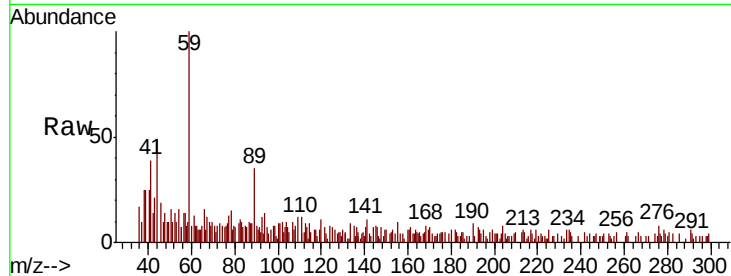


#23

tert-Butyl Alcohol
Concen: 1.321 ug/l
RT: 3.03 min Scan# 351
Delta R.T. 0.00 min
Lab File: VX013419.D
Acq: 14 Nov 2019 14:02

Instrument :
MSVOA_X
ClientSampled :

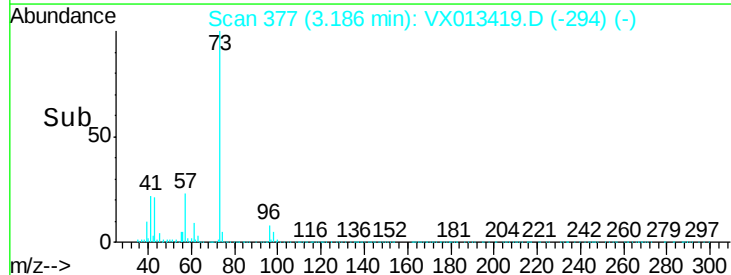
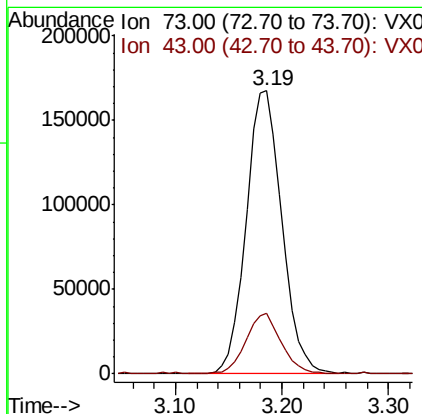
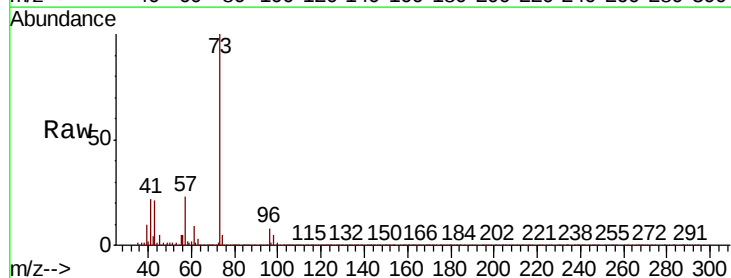
Tot Ion: 59 Resp: 2990
Ion Ratio Lower Upper
59 100
52 11.0 0.1 0.1#

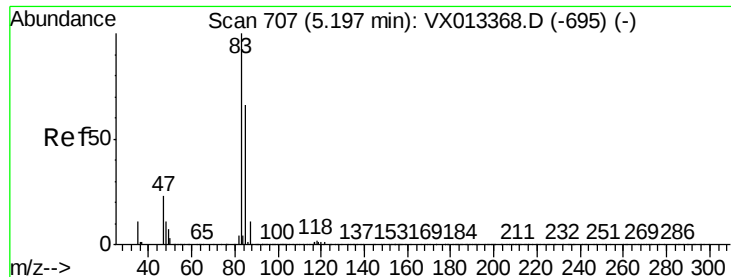


#24

Methyl tert-Butyl Ether
Concen: 16.293 ug/l
RT: 3.19 min Scan# 377
Delta R.T. 0.01 min
Lab File: VX013419.D
Acq: 14 Nov 2019 14:02

Tgt Ion: 73 Resp: 393484
Ion Ratio Lower Upper
73 100
43 20.7 17.0 25.6

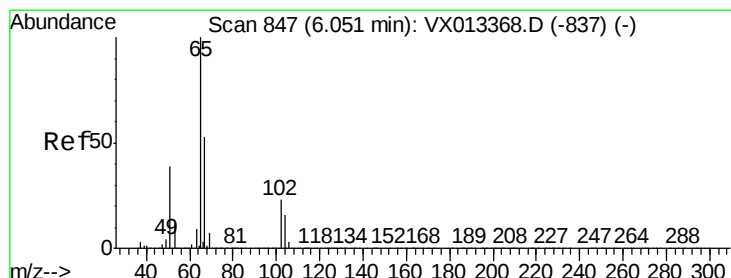
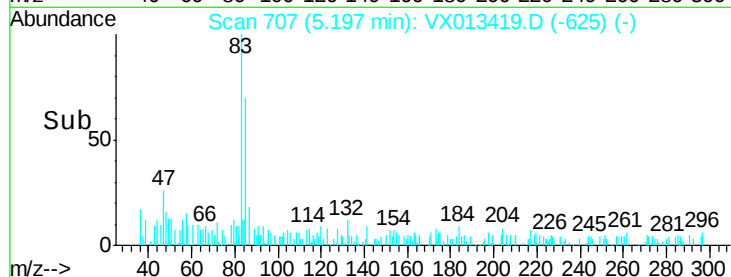
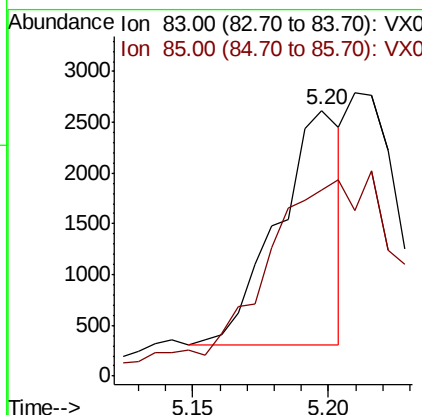
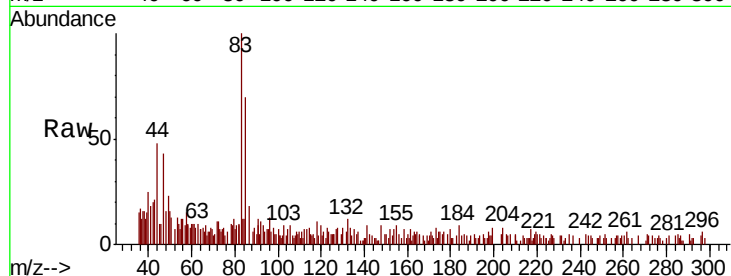




#25
Chloroform
Concen: 0.273 ug/l
RT: 5.20 min Scan# 707
Delta R.T. 0.00 min
Lab File: VX013419.D
Acq: 14 Nov 2019 14:02

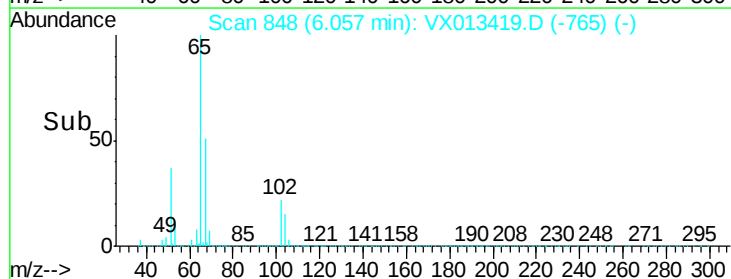
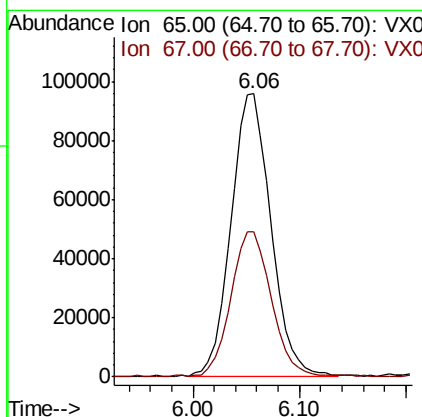
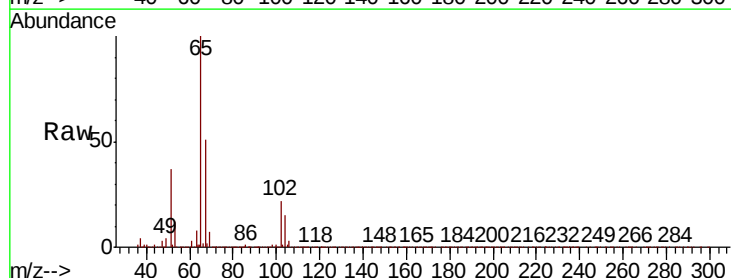
Instrument :
MSVOA_X
ClientSampleId :

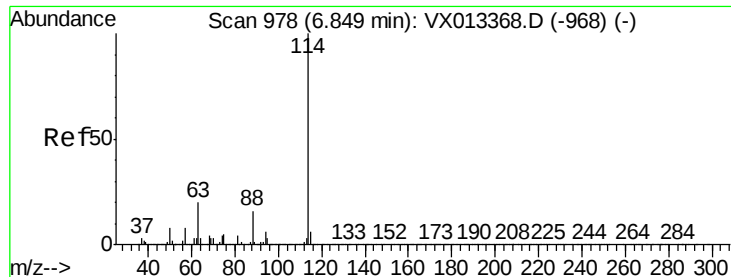
Tot Ion: 83 Resp: 3759
Ion Ratio Lower Upper
83 100
85 68.4 52.4 78.6



#27
1,2-Dichloroethane-d4
Concen: 28.773 ug/l
RT: 6.06 min Scan# 848
Delta R.T. 0.01 min
Lab File: VX013419.D
Acq: 14 Nov 2019 14:02

Tgt Ion: 65 Resp: 251035
Ion Ratio Lower Upper
65 100
67 52.0 41.0 61.6

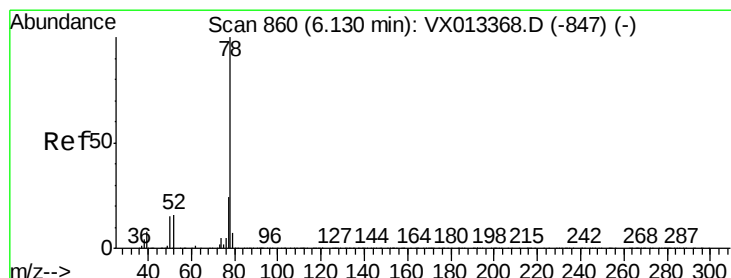
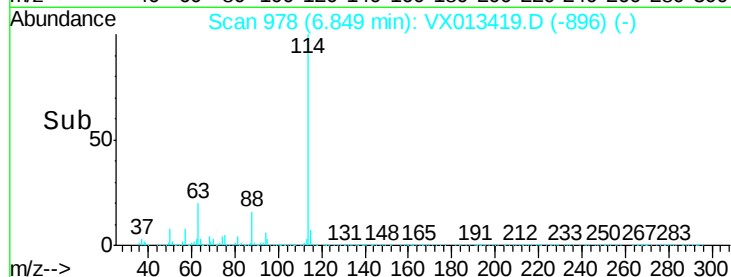
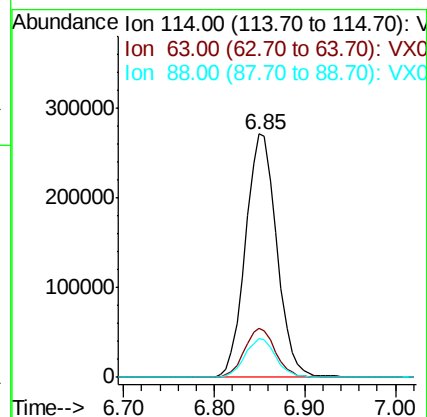
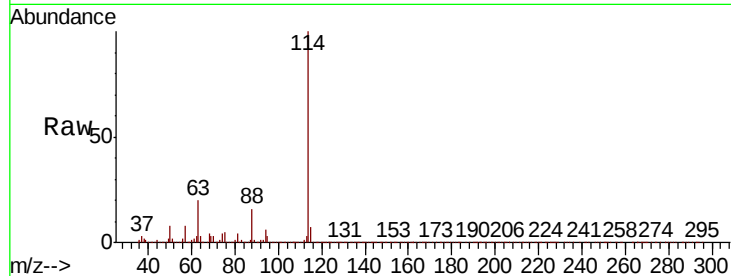




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX013419.D
 Acq: 14 Nov 2019 14:02

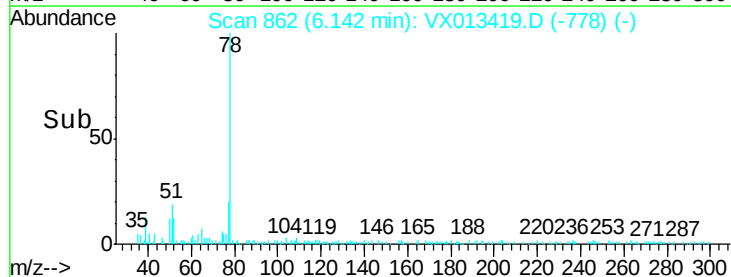
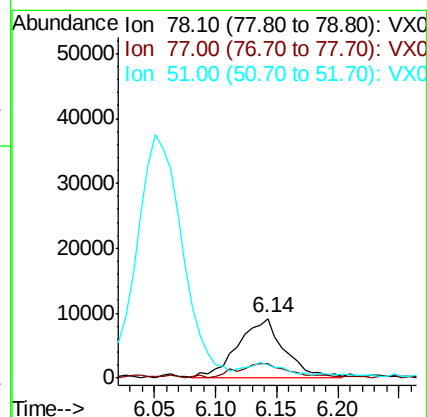
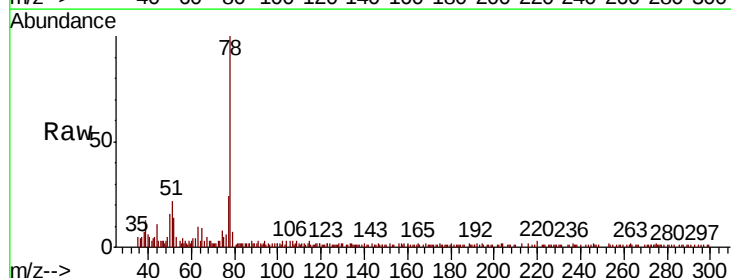
Instrument :
 MSVOA_X
 ClientSampleId :

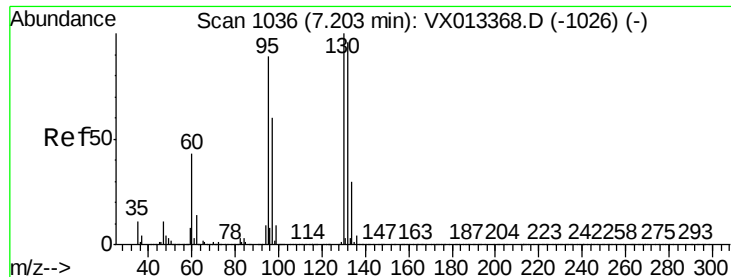
Tot Ion	Ratio	Lower	Upper
114	100		
63	19.9	16.1	24.1
88	15.6	12.3	18.5



#34
 Benzene
 Concen: 0.780 ug/l
 RT: 6.14 min Scan# 862
 Delta R.T. 0.01 min
 Lab File: VX013419.D
 Acq: 14 Nov 2019 14:02

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.7	19.3	28.9
51	14.1	12.2	18.4





#37

Trichloroethene

Concen: 179.951 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013419.D

Acq: 14 Nov 2019 14:02

Instrument :

MSVOA_X

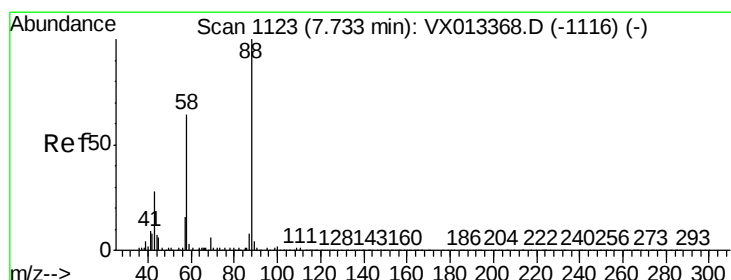
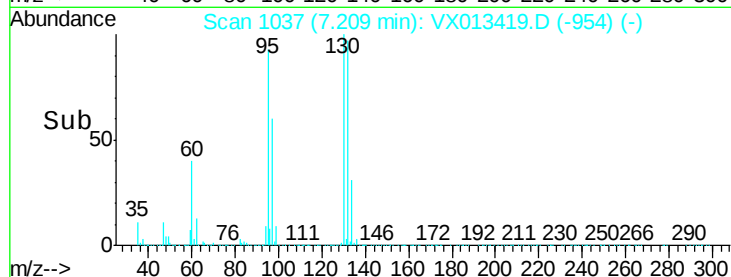
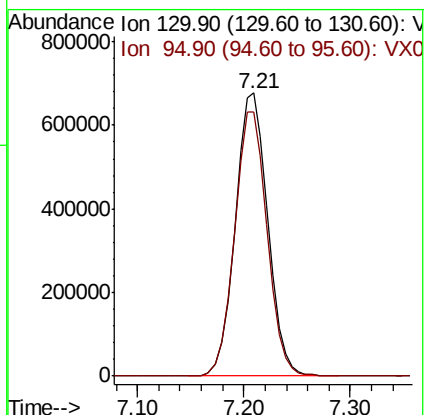
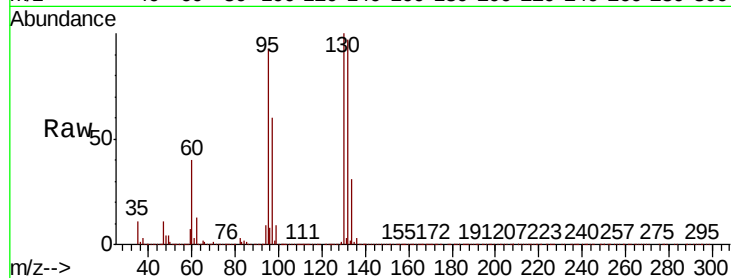
ClientSampleId :

Tot Ion:130 Resp: 1446118

Ion Ratio Lower Upper

130 100

95 93.4 71.3 106.9



#45

1,4-Dioxane

Concen: 2.082 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VX013419.D

Acq: 14 Nov 2019 14:02

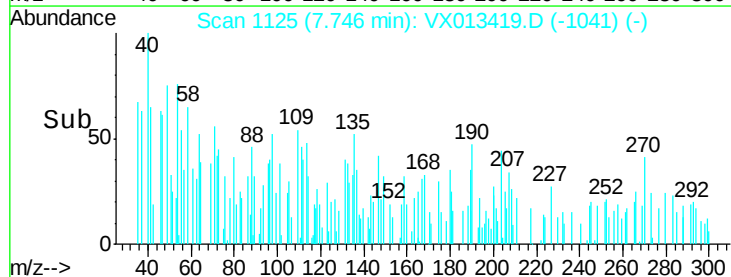
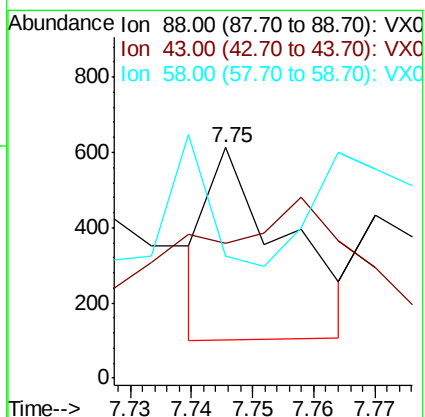
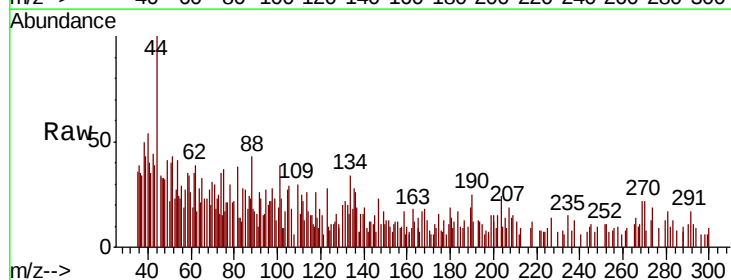
Tgt Ion: 88 Resp: 440

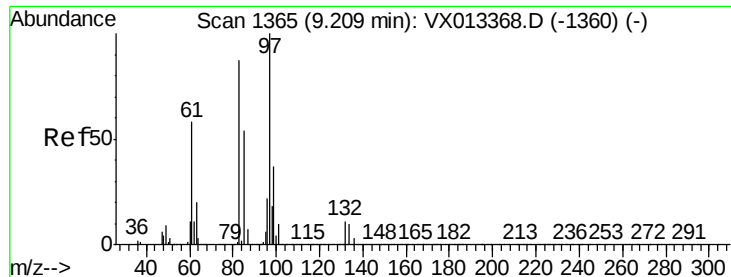
Ion Ratio Lower Upper

88 100

43 27.7 26.1 39.1

58 65.7 55.8 83.8

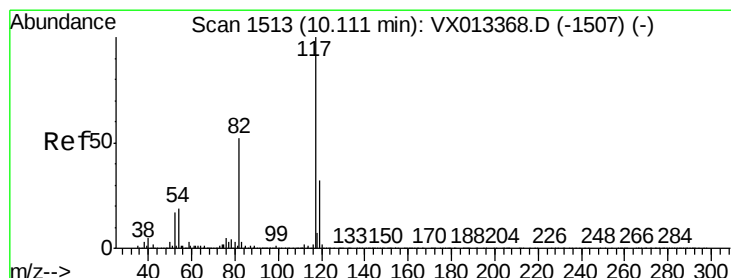
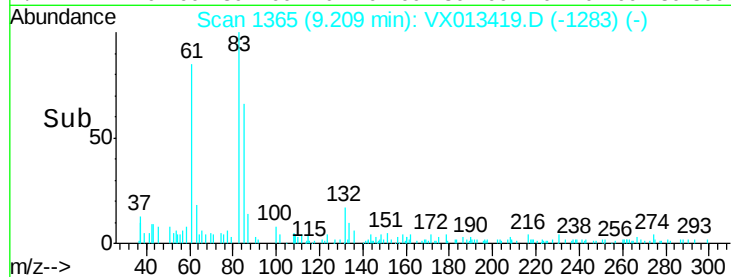
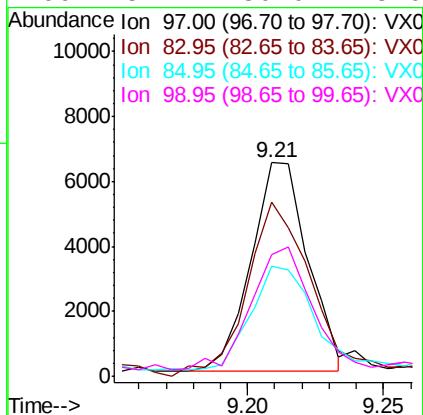
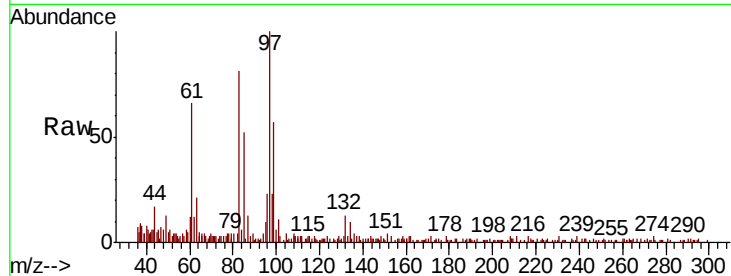




#50
 1,1,2-Trichloroethane
 Concen: 1.224 ug/l
 RT: 9.21 min Scan# 1365
 Delta R.T. 0.00 min
 Lab File: VX013419.D
 Acq: 14 Nov 2019 14:02

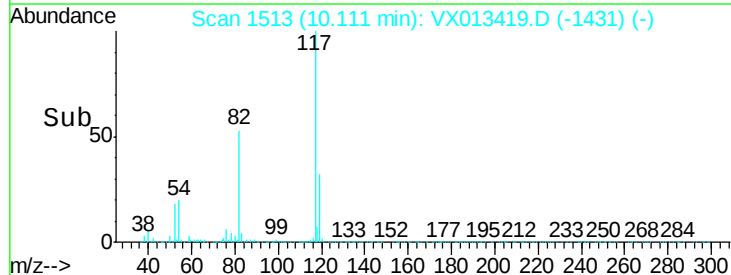
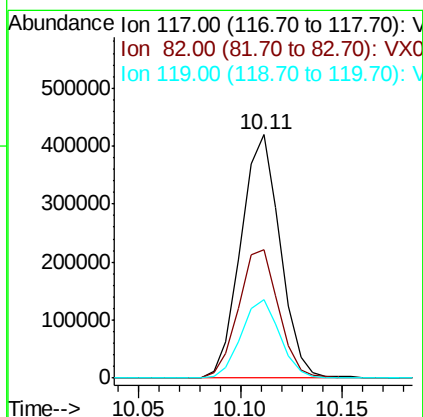
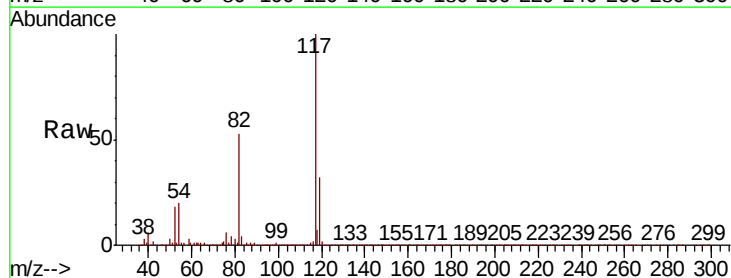
Instrument :
 MSVOA_X
 ClientSampled :

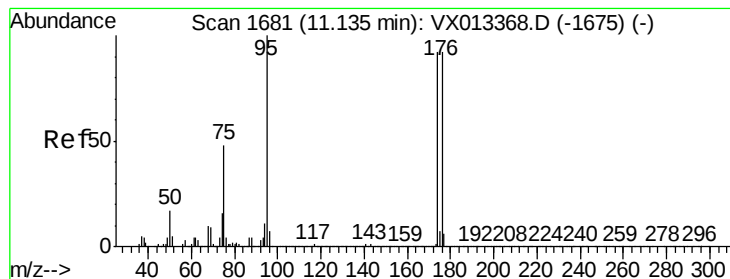
Tot Ion:	97	Resp:	9353
Ion	Ratio	Lower	Upper
97	100		
83	78.4	69.6	104.4
85	49.5	45.5	68.3
99	54.4	50.0	75.0



#57
 Chlorobenzene-d5
 Concen: 30.000 ug/l
 RT: 10.11 min Scan# 1513
 Delta R.T. 0.00 min
 Lab File: VX013419.D
 Acq: 14 Nov 2019 14:02

Tgt Ion:	117	Resp:	559795
Ion	Ratio	Lower	Upper
117	100		
82	54.1	43.7	65.5
119	32.1	25.5	38.3





#60

4-Bromofluorobenzene

Concen: 27.166 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX013419.D

Acq: 14 Nov 2019 14:02

Instrument :

MSVOA_X

ClientSampleId :

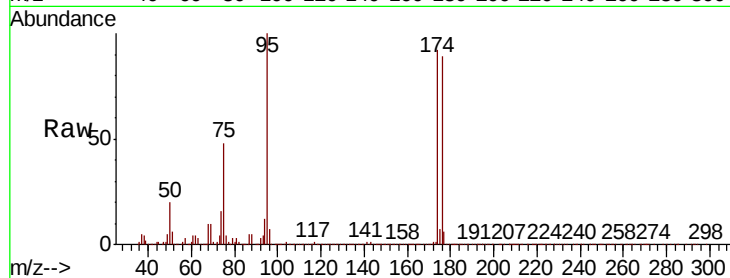
Tot Ion: 95 Resp: 244421

Ion Ratio Lower Upper

95 100

174 89.6 70.2 105.2

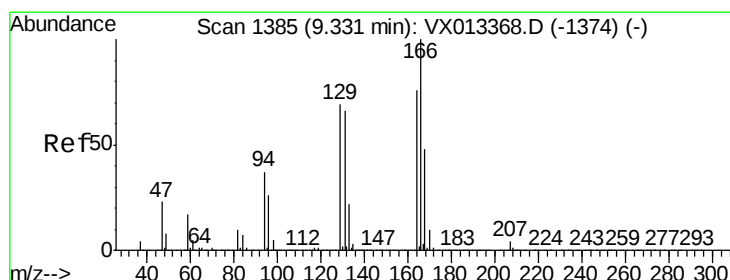
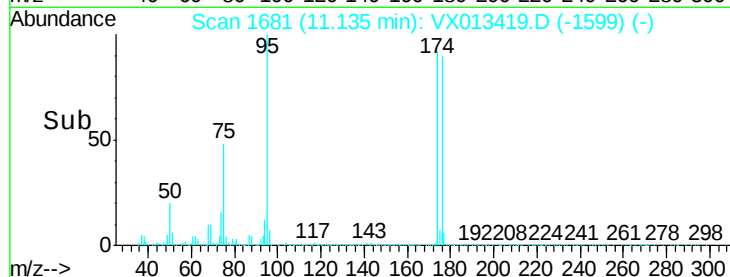
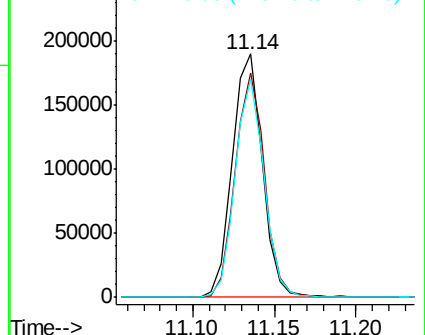
176 85.9 68.3 102.5



Abundance Ion 95.00 (94.70 to 95.70): VX0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#61

Tetrachloroethene

Concen: 33.014 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX013419.D

Acq: 14 Nov 2019 14:02

Tgt Ion:164 Resp: 227891

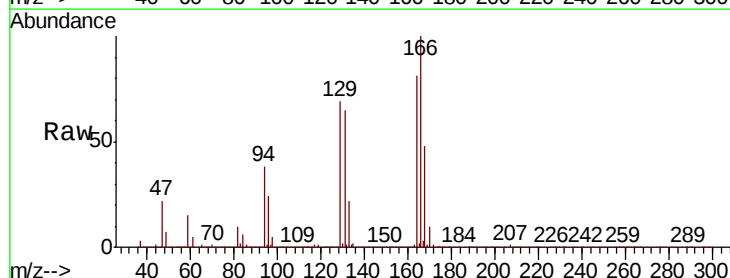
Ion Ratio Lower Upper

164 100

166 123.7 104.9 157.3

129 84.9 72.3 108.5

131 80.3 69.0 103.6

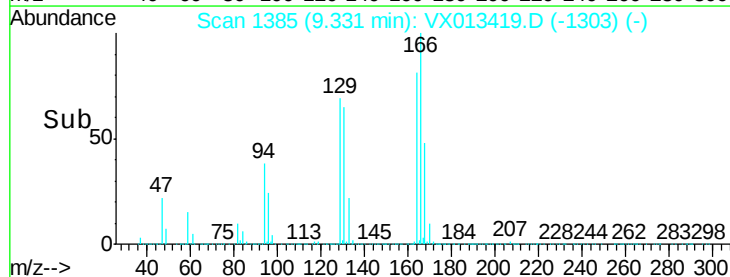
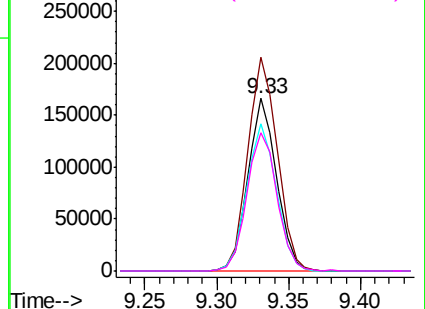


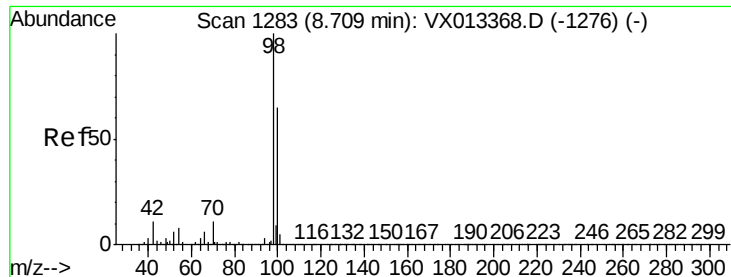
Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V

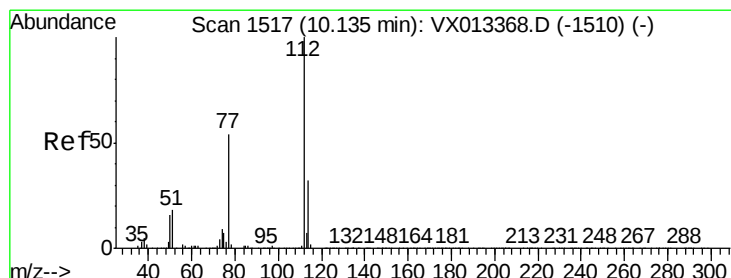
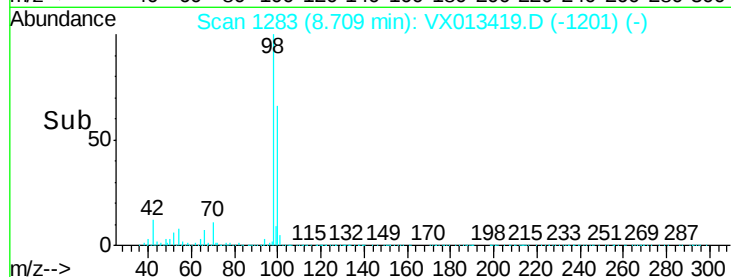
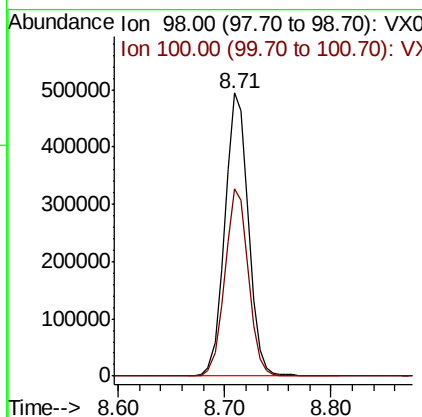
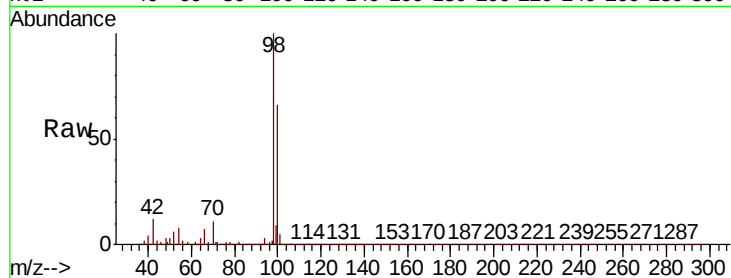




#63
Toluene-d8
Concen: 30.165 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX013419.D
Acq: 14 Nov 2019 14:02

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 98 Resp: 763598
Ion Ratio Lower Upper
98 100
100 65.9 52.5 78.7



#64
Chlorobenzene
Concen: 0.422 ug/l
RT: 10.14 min Scan# 1517
Delta R.T. 0.00 min
Lab File: VX013419.D
Acq: 14 Nov 2019 14:02

Tgt Ion: 112 Resp: 8234
Ion Ratio Lower Upper
112 100
114 26.5 25.7 38.5

