

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032620\
 Data File : VX015360.D
 Acq On : 26 Mar 2020 15:52
 Operator : JC/SP
 Sample : L2014-02 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 27 07:51:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 26 02:31:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	192158	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	1100046	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	998693	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.04	65	468144	31.18	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.93%
60) 4-Bromofluorobenzene	11.12	95	528176	30.90	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	103.00%
63) Toluene-d8	8.70	98	1301533	30.67	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.23%

Target Compounds

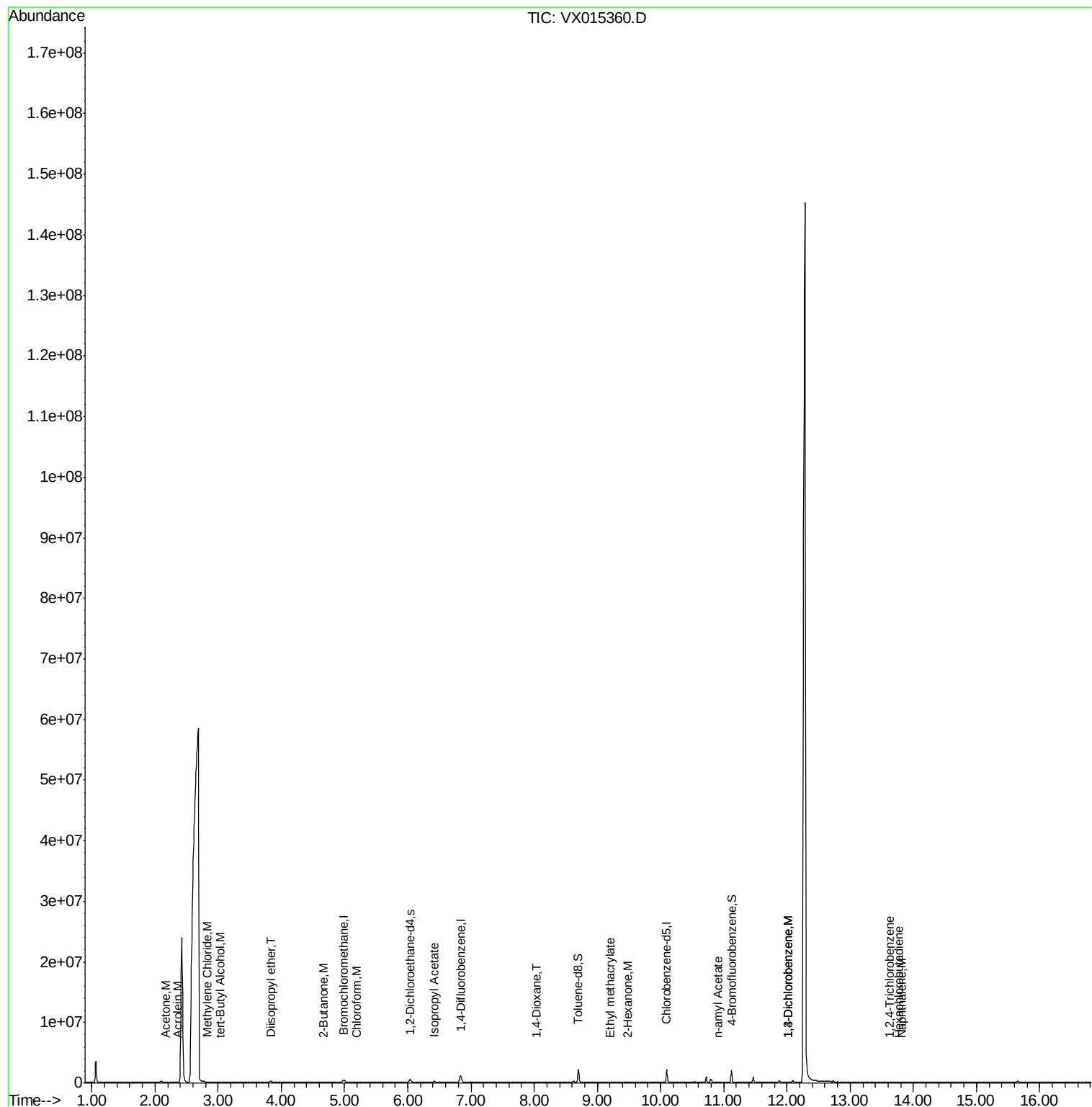
					Ovalue
13) Acrolein	2.36	56	494	0.248 ug/l	93
15) Acetone	2.17	58	346	0.208 ug/l	90
18) Methylene Chloride	2.84	84	4918	0.419 ug/l #	83
20) Diisopropyl ether	3.83	45	286767	6.768 ug/l #	74
23) tert-Butyl Alcohol	3.03	59	76067	23.593 ug/l #	100
25) Chloroform	5.18	83	30834	1.442 ug/l	97
30) 2-Butanone	4.65	43	36954	3.730 ug/l	94
44) Isopropyl Acetate	6.42	43	269831	7.780 ug/l	99
45) 1,4-Dioxane	8.03	88	498	1.559 ug/l	95
47) n-amyl Acetate	10.90	43	10871	0.364 ug/l	97
51) Ethyl methacrylate	9.20	69	8639	0.411 ug/l	73
59) 2-Hexanone	9.48	43	32466	2.233 ug/l	96
83) 1,3-Dichlorobenzene	12.01	146	6175	0.226 ug/l	94
84) 1,4-Dichlorobenzene	12.01	146	5919	0.217 ug/l	89
89) 1,2,4-Trichlorobenzene	13.63	180	14606	0.679 ug/l	90
90) Hexachlorobutadiene	13.77	225	6453	0.570 ug/l	93
91) Naphthalene	13.82	128	21695	0.348 ug/l	94

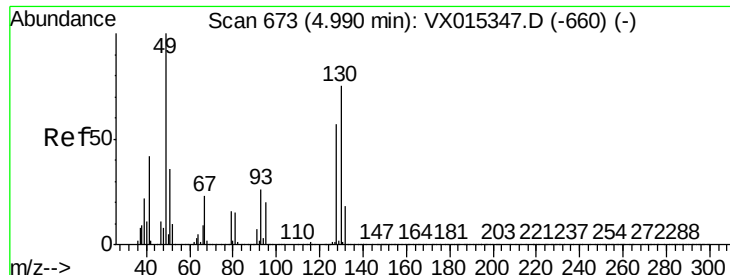
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 27 07:51:14 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X032520W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Mar 26 02:31:53 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.98 min Scan# 672

Delta R.T. -0.01 min

Lab File: VX015360.D

Acq: 26 Mar 2020 15:52

Instrument :

MSVOA_X

ClientSampleId :

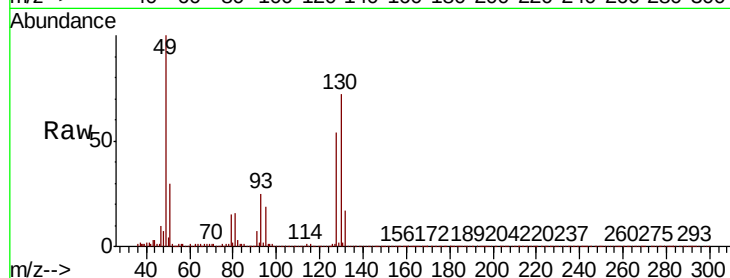
Tot Ion:128 Resp: 192158

Ion Ratio Lower Upper

128 100

49 176.6 0.0 428.0

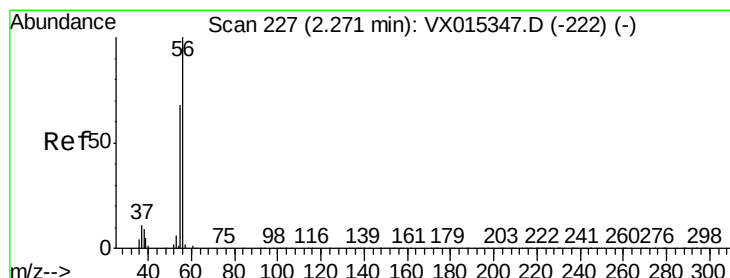
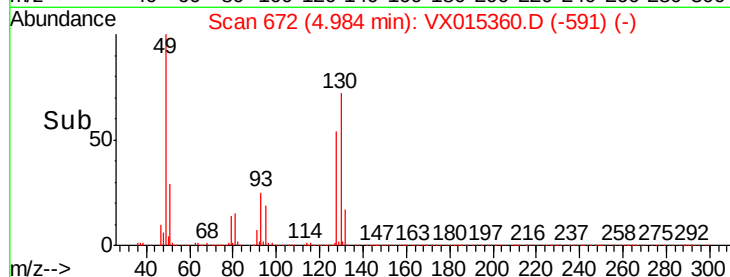
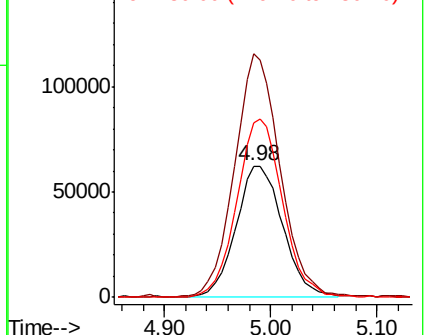
130 131.8 0.0 324.5



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



#13

Acrolein

Concen: 0.248 ug/l

RT: 2.36 min Scan# 242

Delta R.T. 0.09 min

Lab File: VX015360.D

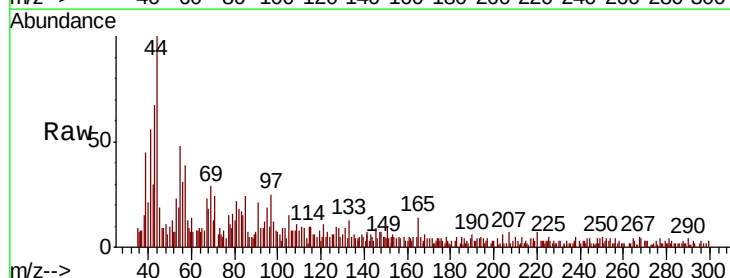
Acq: 26 Mar 2020 15:52

Tgt Ion: 56 Resp: 494

Ion Ratio Lower Upper

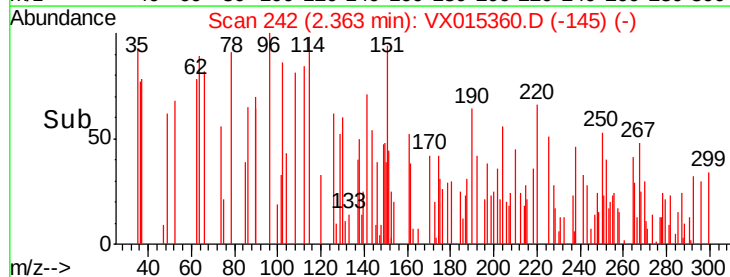
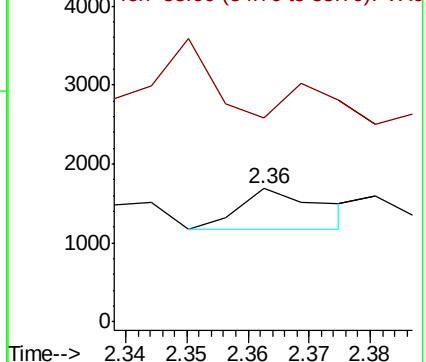
56 100

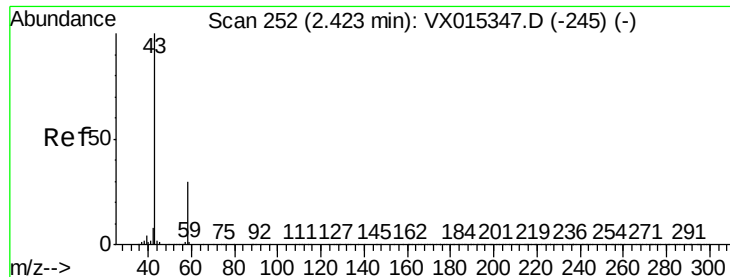
55 60.9 53.5 80.3



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acetone

Concen: 0.208 ug/l

RT: 2.17 min Scan# 210

Delta R.T. -0.26 min

Lab File: VX015360.D

Acq: 26 Mar 2020 15:52

Instrument :

MSVOA_X

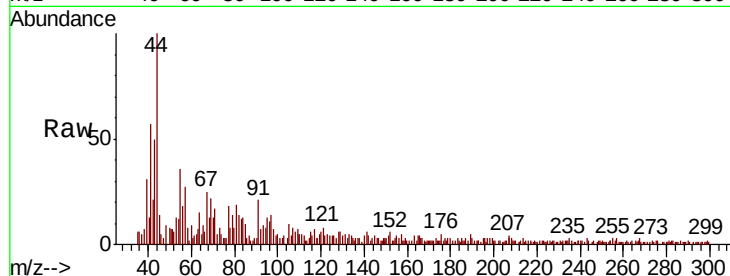
ClientSampleId :

Tot Ion: 58 Resp: 346

Ion Ratio Lower Upper

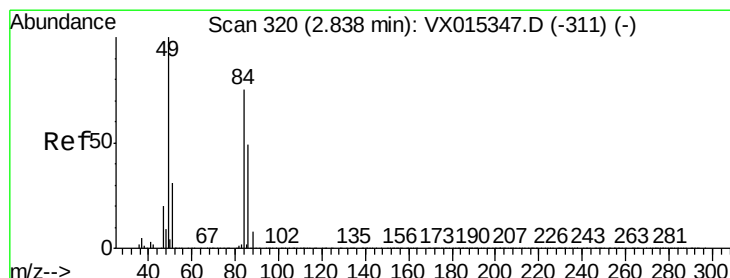
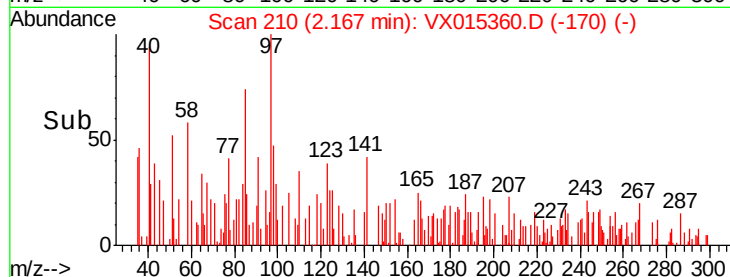
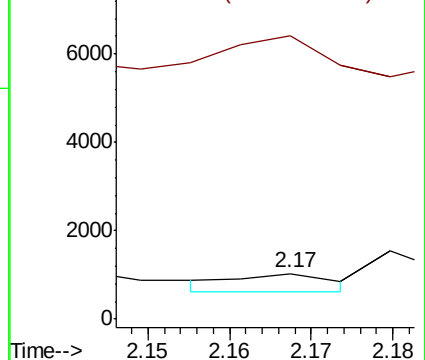
58 100

43 356.5 267.8 401.8



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#18

Methylene Chloride

Concen: 0.419 ug/l

RT: 2.84 min Scan# 320

Delta R.T. 0.00 min

Lab File: VX015360.D

Acq: 26 Mar 2020 15:52

Tgt Ion: 84 Resp: 4918

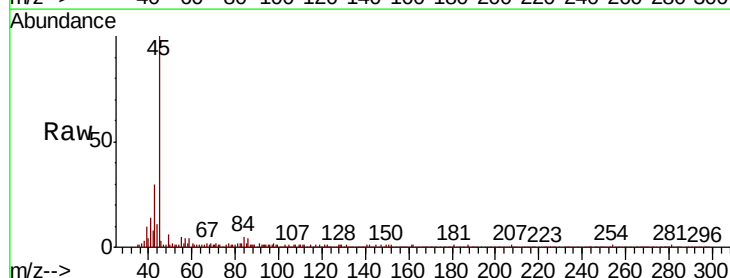
Ion Ratio Lower Upper

84 100

49 111.7 107.0 160.4

51 17.4 33.4 50.0#

86 66.0 52.6 79.0

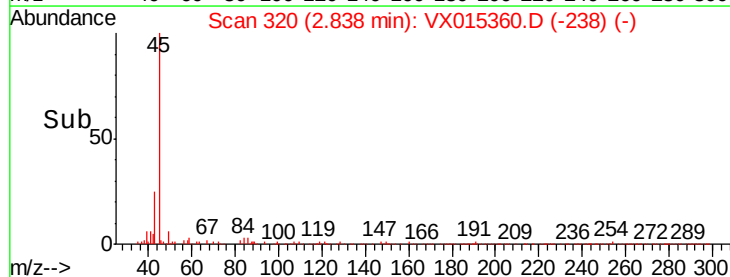
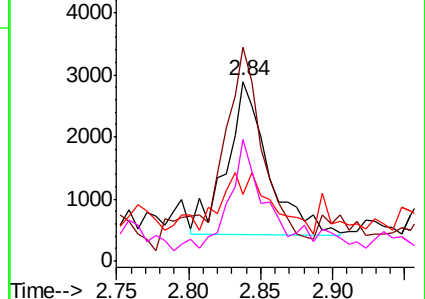


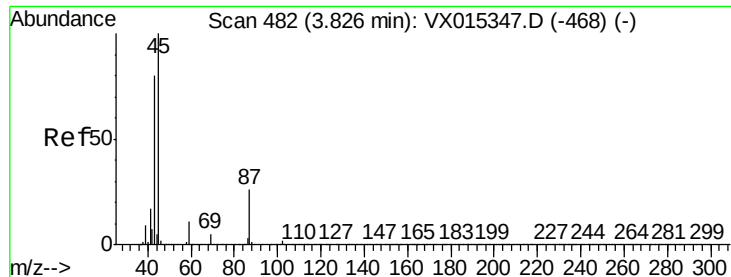
Abundance Ion 84.00 (83.70 to 84.70): VX0

Ion 49.00 (48.70 to 49.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

Ion 86.00 (85.70 to 86.70): VX0

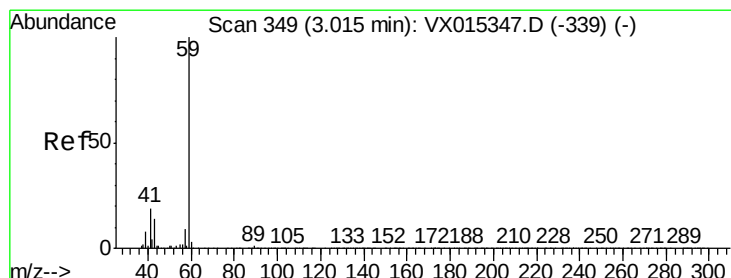
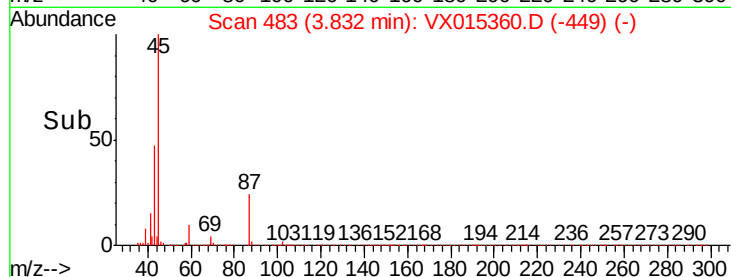
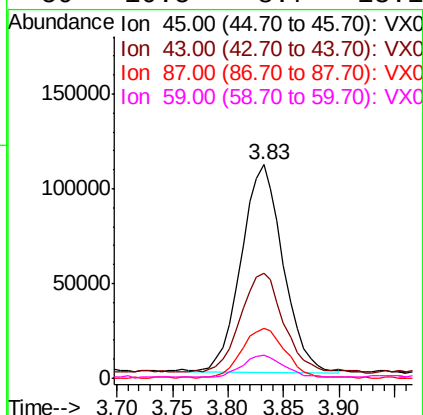
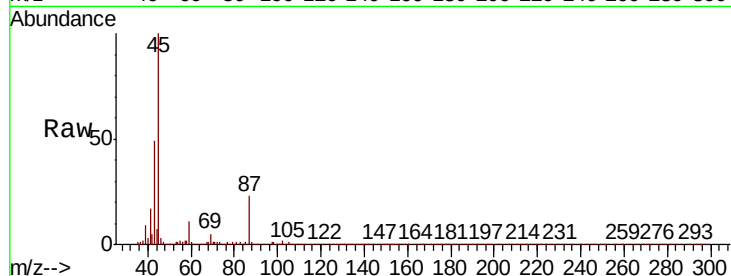




#20
Diisopropyl ether
Concen: 6.768 ug/l
RT: 3.83 min Scan# 483
Delta R.T. 0.01 min
Lab File: VX015360.D
Acq: 26 Mar 2020 15:52

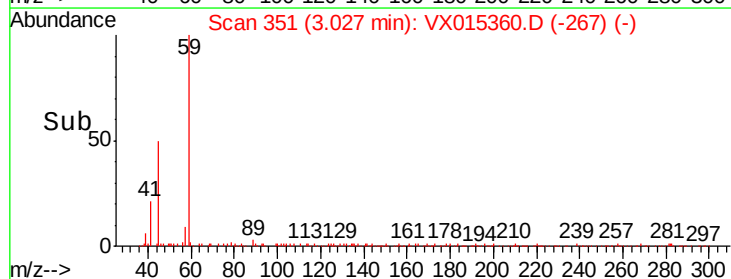
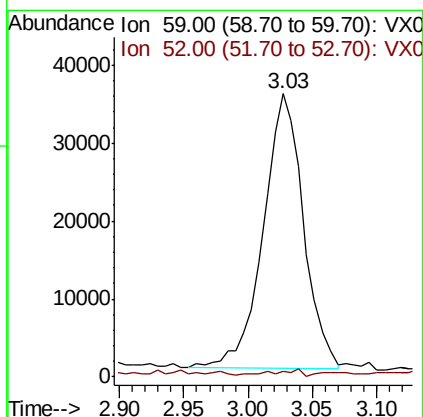
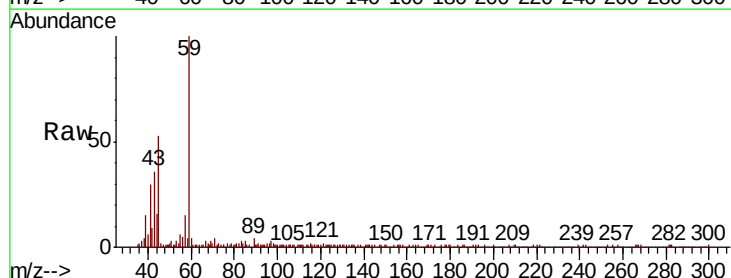
Instrument :
MSVOA_X
ClientSampleId :

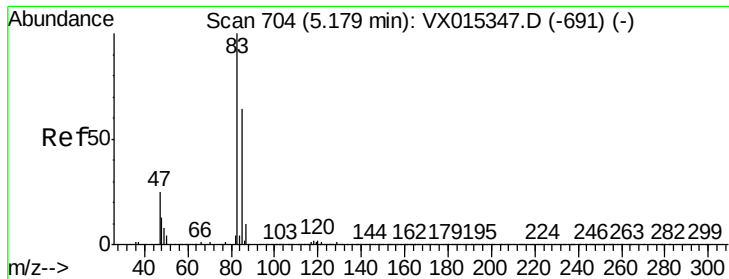
Tot Ion:	45	Resp:	286767
Ion	Ratio	Lower	Upper
45	100		
43	47.8	64.4	96.6#
87	23.8	20.4	30.6
59	10.5	8.7	13.1



#23
tert-Butyl Alcohol
Concen: 23.593 ug/l
RT: 3.03 min Scan# 351
Delta R.T. 0.01 min
Lab File: VX015360.D
Acq: 26 Mar 2020 15:52

Tgt Ion:	59	Resp:	76067
Ion	Ratio	Lower	Upper
59	100		
52	0.5	0.2	0.2#

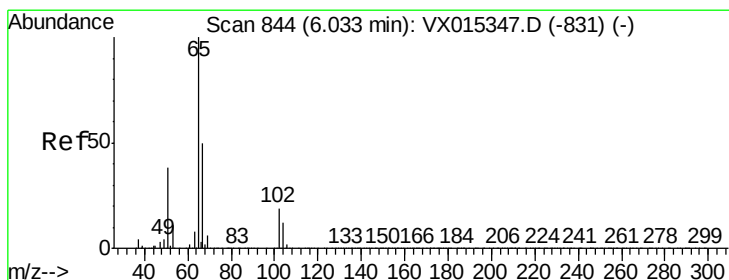
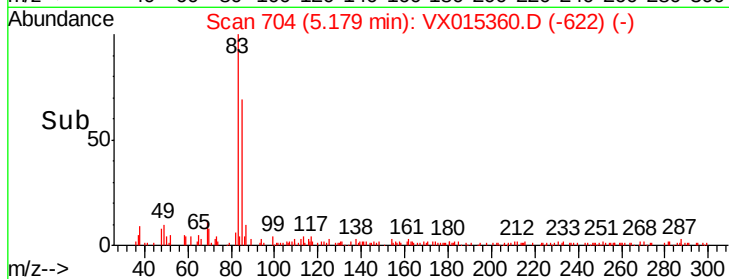
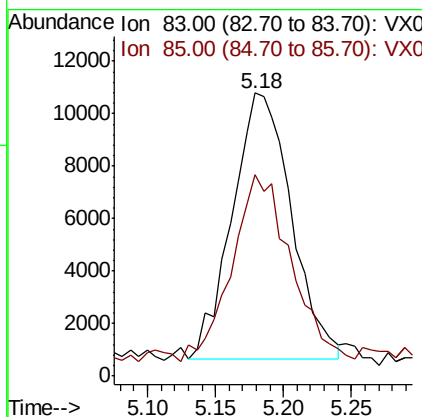
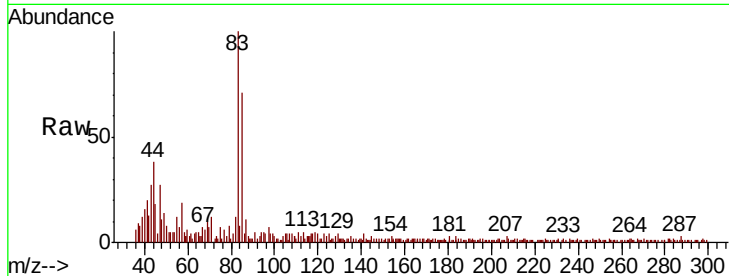




#25
Chloroform
Concen: 1.442 ug/l
RT: 5.18 min Scan# 704
Delta R.T. 0.00 min
Lab File: VX015360.D
Acq: 26 Mar 2020 15:52

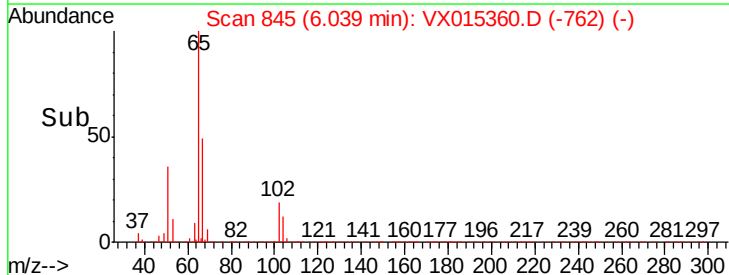
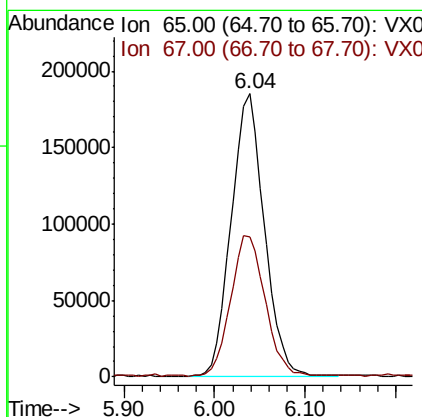
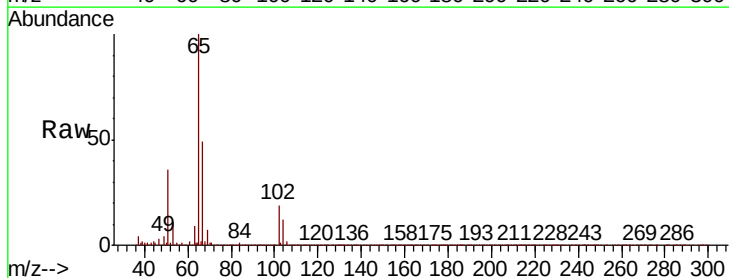
Instrument :
MSVOA_X
ClientSampleId :

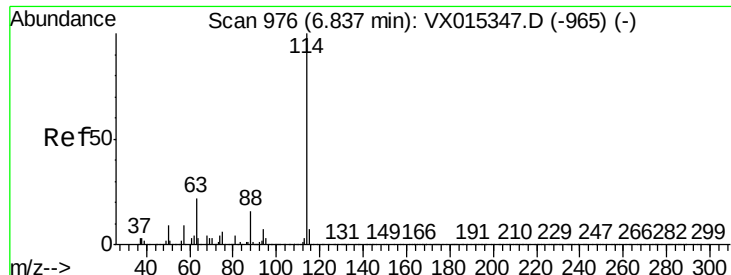
Tot Ion: 83 Resp: 30834
Ion Ratio Lower Upper
83 100
85 65.1 50.5 75.7



#27
1,2-Dichloroethane-d4
Concen: 31.177 ug/l
RT: 6.04 min Scan# 845
Delta R.T. 0.01 min
Lab File: VX015360.D
Acq: 26 Mar 2020 15:52

Tgt Ion: 65 Resp: 468144
Ion Ratio Lower Upper
65 100
67 51.4 40.9 61.3

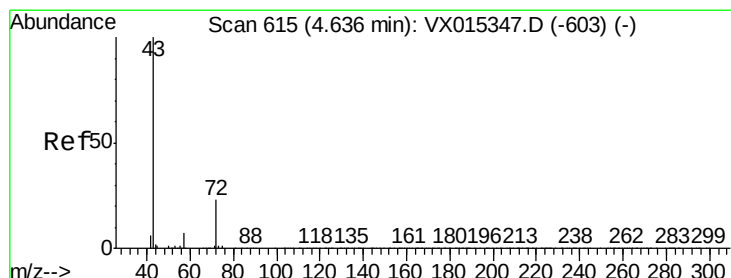
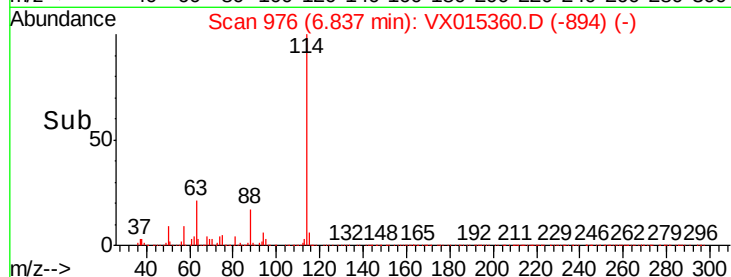
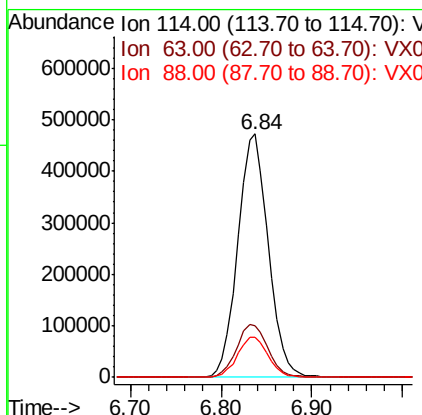
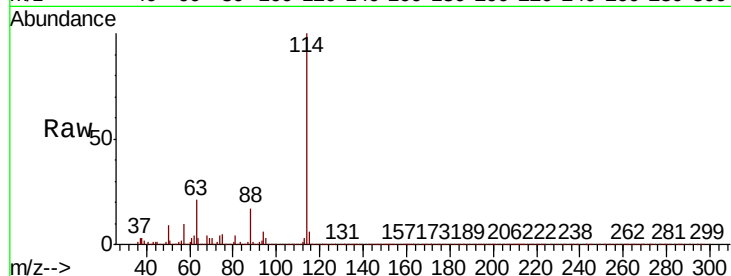




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.84 min Scan# 976
 Delta R.T. 0.00 min
 Lab File: VX015360.D
 Acq: 26 Mar 2020 15:52

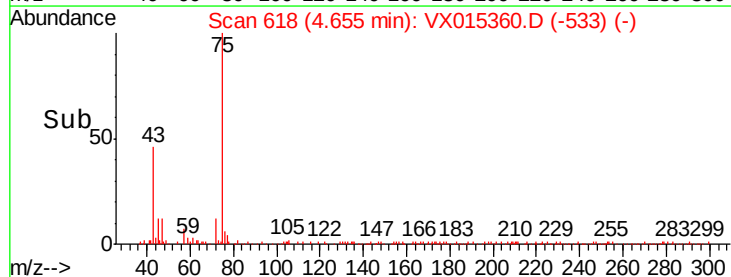
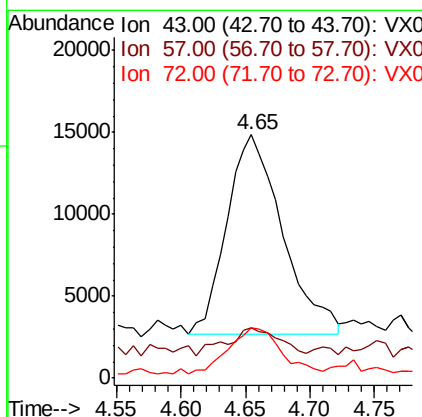
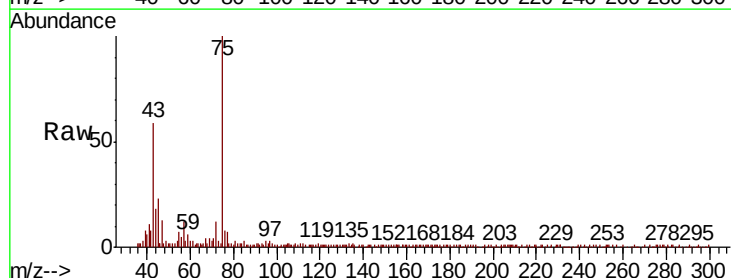
Instrument :
 MSVOA_X
 ClientSampleId :

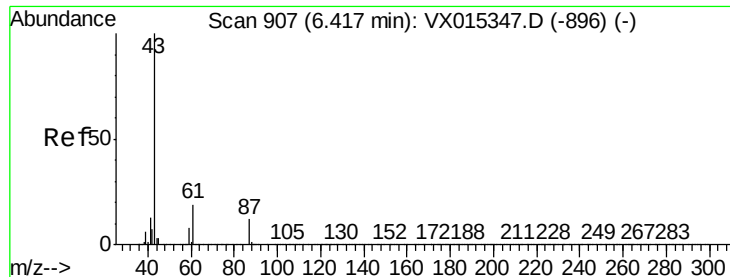
Tot Ion:114 Resp: 1100046
 Ion Ratio Lower Upper
 114 100
 63 22.3 17.4 26.2
 88 16.6 12.9 19.3



#30
 2-Butanone
 Concen: 3.730 ug/l
 RT: 4.65 min Scan# 618
 Delta R.T. 0.02 min
 Lab File: VX015360.D
 Acq: 26 Mar 2020 15:52

Tgt Ion: 43 Resp: 36954
 Ion Ratio Lower Upper
 43 100
 57 8.7 5.9 8.9
 72 19.7 18.6 27.8



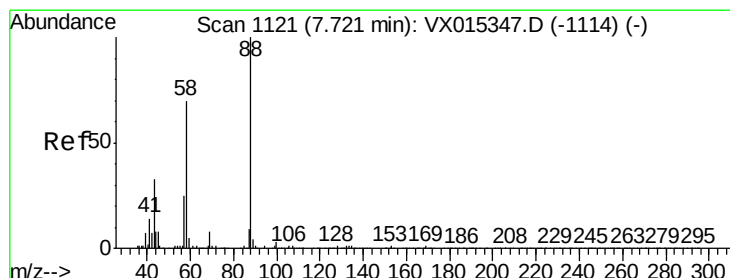
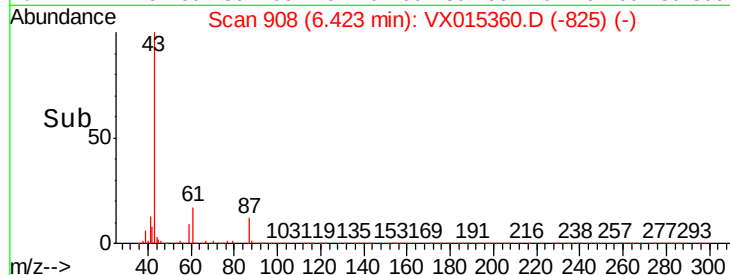
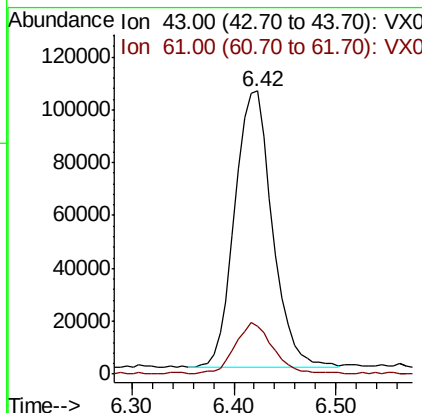
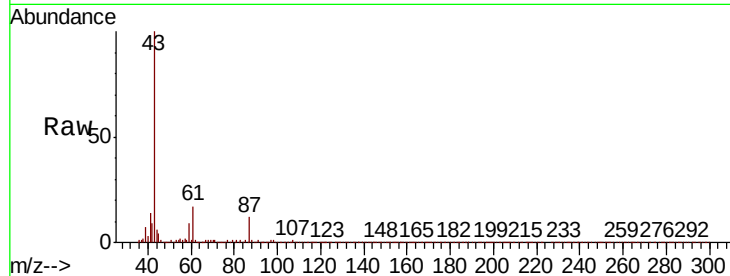


#44

Isopropyl Acetate
 Concen: 7.780 ug/l
 RT: 6.42 min Scan# 908
 Delta R.T. 0.01 min
 Lab File: VX015360.D
 Acq: 26 Mar 2020 15:52

Instrument :
 MSVOA_X
 ClientSampleId :

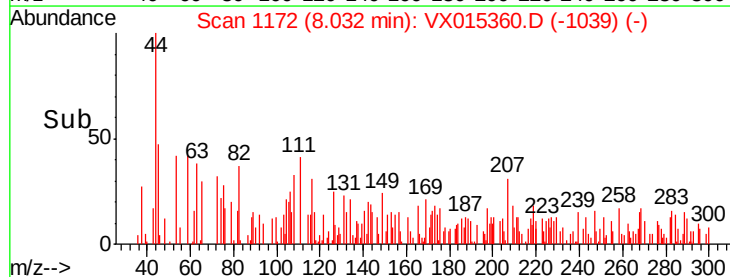
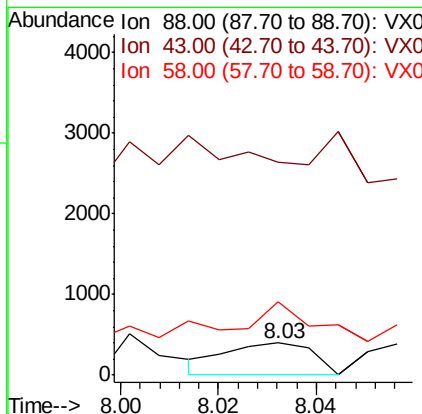
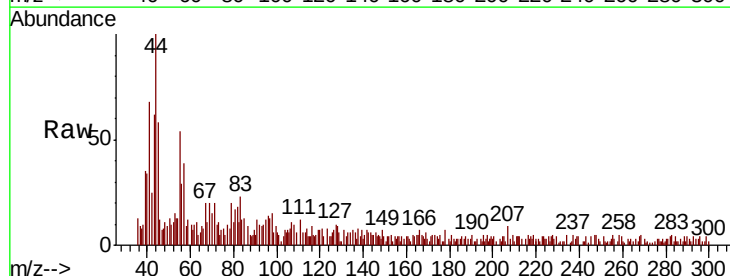
Tot Ion: 43 Resp: 269831
 Ion Ratio Lower Upper
 43 100
 61 17.8 14.6 22.0

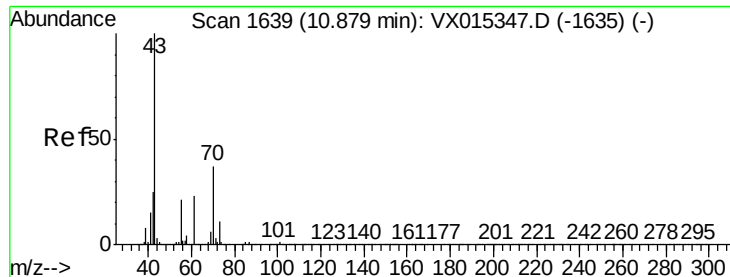


#45

1,4-Dioxane
 Concen: 1.559 ug/l
 RT: 8.03 min Scan# 1172
 Delta R.T. 0.31 min
 Lab File: VX015360.D
 Acq: 26 Mar 2020 15:52

Tgt Ion: 88 Resp: 498
 Ion Ratio Lower Upper
 88 100
 43 46.0 32.1 48.1
 58 76.3 59.4 89.0





#47

n-amvl Acetate

Concen: 0.364 ug/l

RT: 10.90 min Scan# 1643

Delta R.T. 0.02 min

Lab File: VX015360.D

Acq: 26 Mar 2020 15:52

Instrument :

MSVOA_X

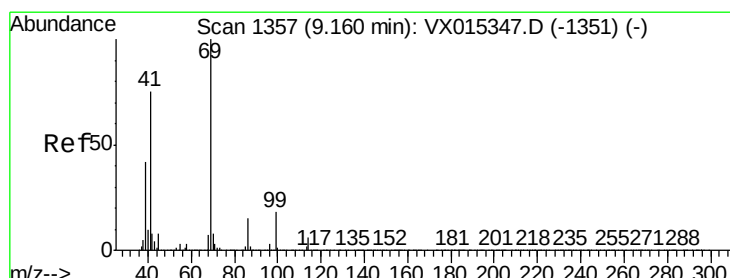
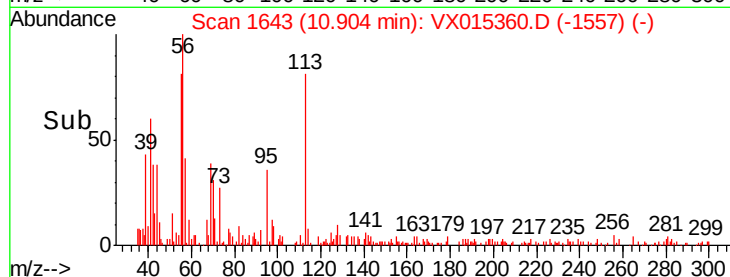
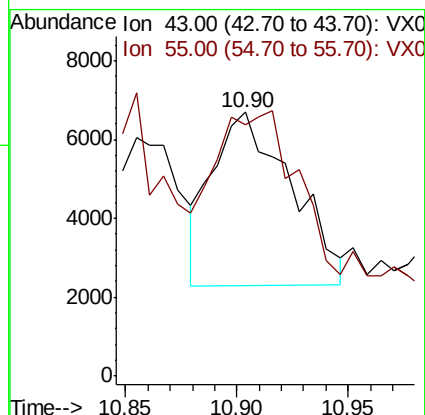
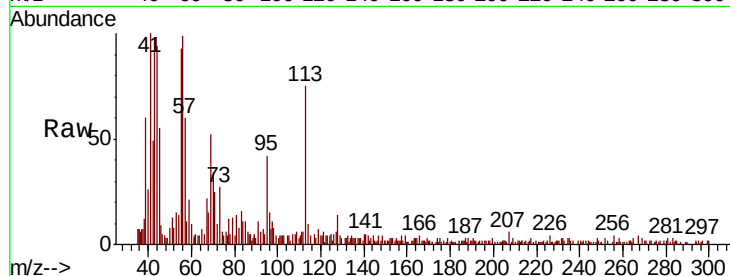
ClientSampled :

Tot Ion: 43 Resp: 10871

Ion Ratio Lower Upper

43 100

55 22.6 17.0 25.6



#51

Ethyl methacrylate

Concen: 0.411 ug/l

RT: 9.20 min Scan# 1363

Delta R.T. 0.04 min

Lab File: VX015360.D

Acq: 26 Mar 2020 15:52

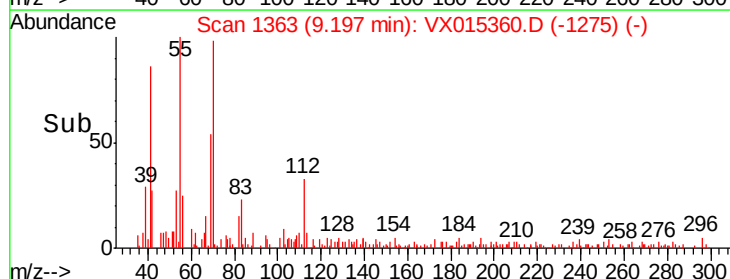
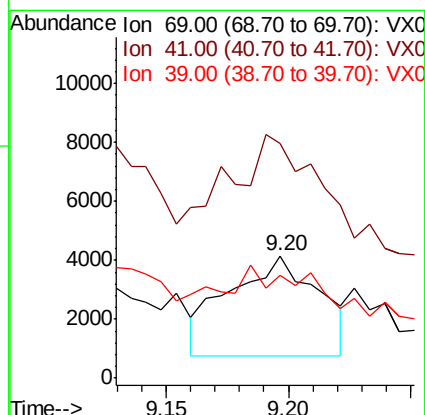
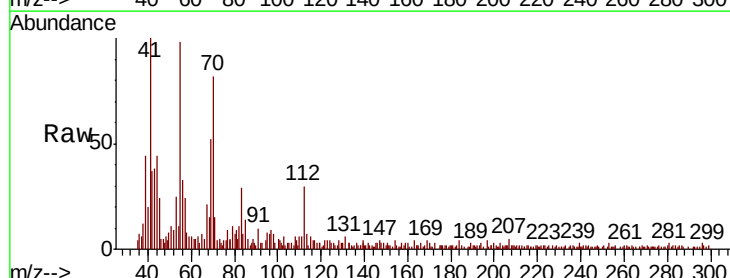
Tgt Ion: 69 Resp: 8639

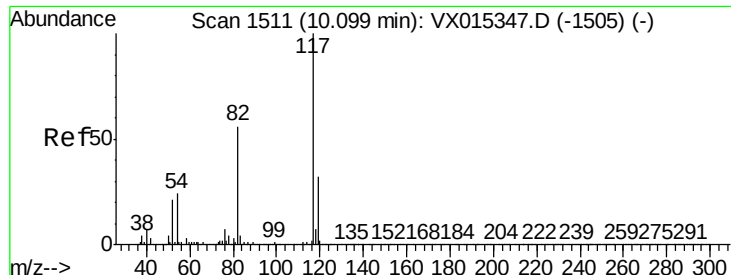
Ion Ratio Lower Upper

69 100

41 103.4 37.4 112.2

39 52.4 21.1 63.1

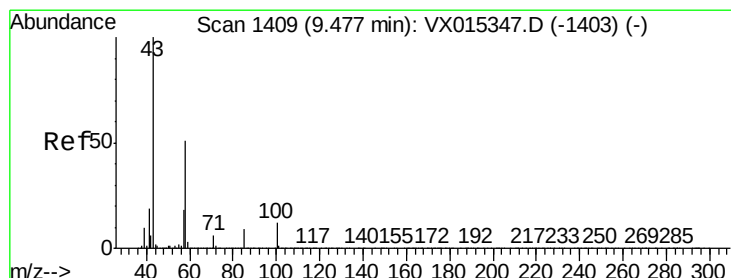
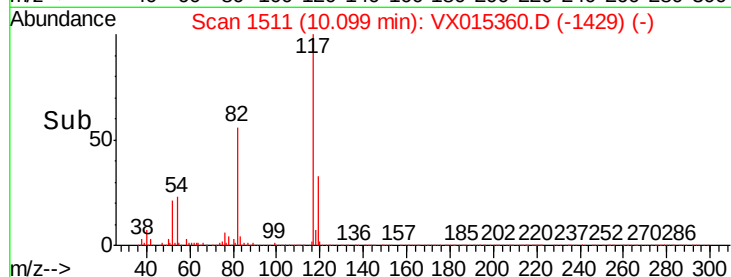
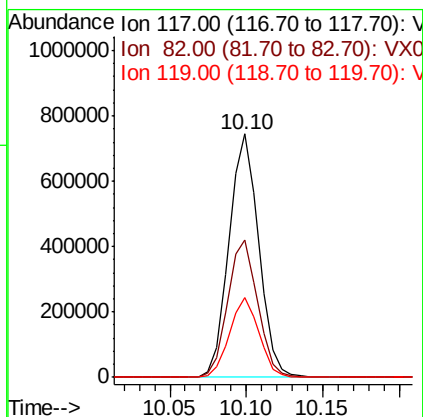
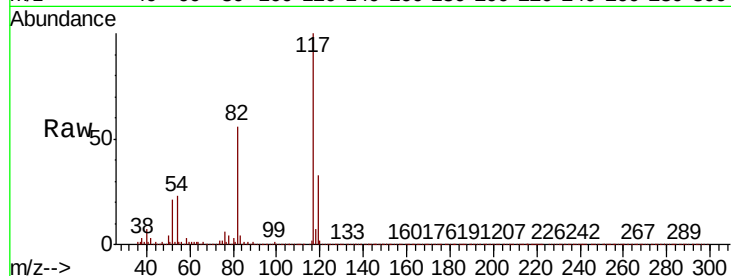




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.10 min Scan# 1511
Delta R.T. 0.00 min
Lab File: VX015360.D
Acq: 26 Mar 2020 15:52

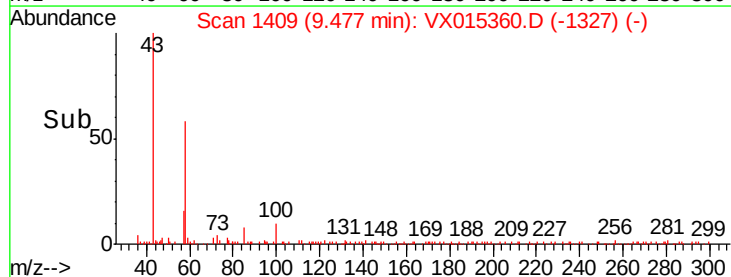
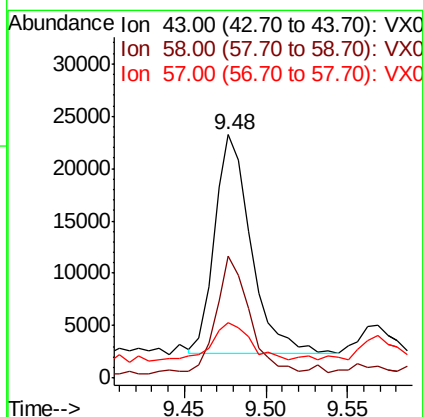
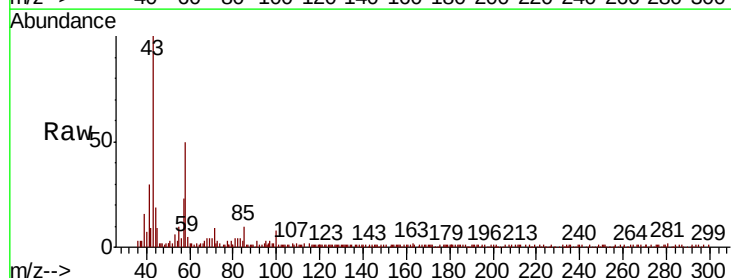
Instrument :
MSVOA_X
ClientSampled :

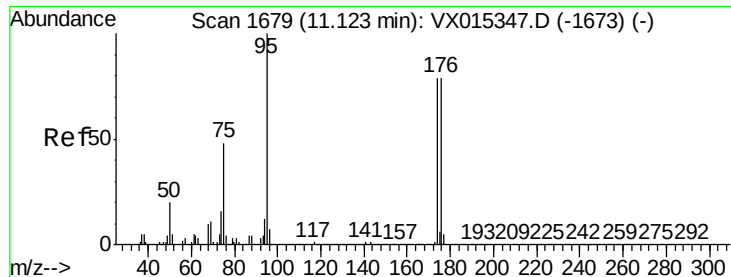
Tot Ion	Ratio	Lower	Upper
117	100		
82	56.9	45.0	67.6
119	32.5	25.5	38.3



#59
2-Hexanone
Concen: 2.233 ug/l
RT: 9.48 min Scan# 1409
Delta R.T. 0.00 min
Lab File: VX015360.D
Acq: 26 Mar 2020 15:52

Tgt Ion	Ratio	Lower	Upper
43	100		
58	46.6	40.2	60.4
57	17.6	14.6	22.0

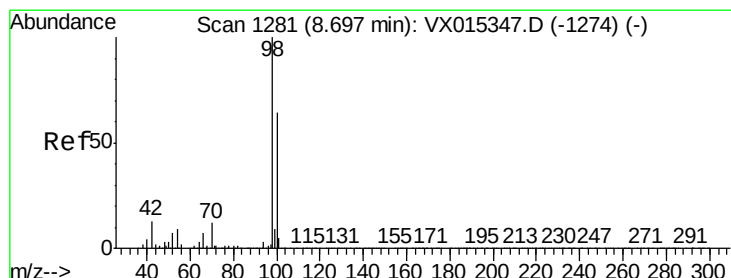
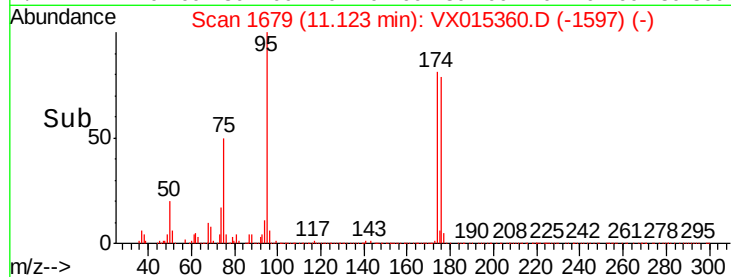
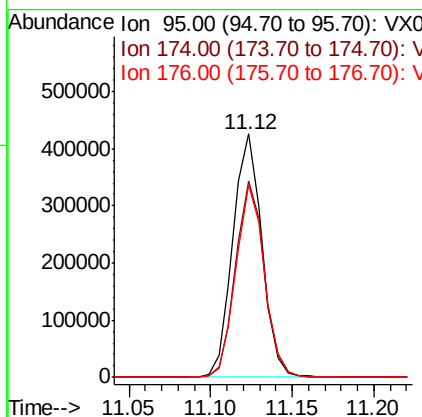
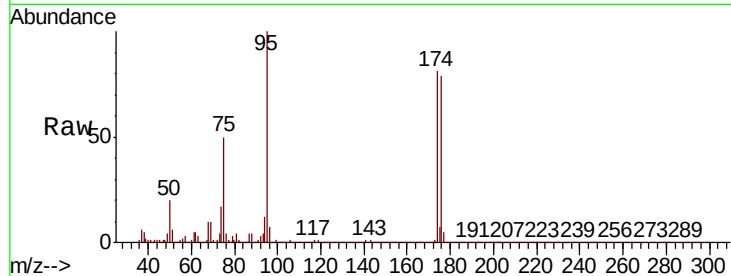




#60
4-Bromofluorobenzene
Concen: 30.903 ug/l
RT: 11.12 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VX015360.D
Acq: 26 Mar 2020 15:52

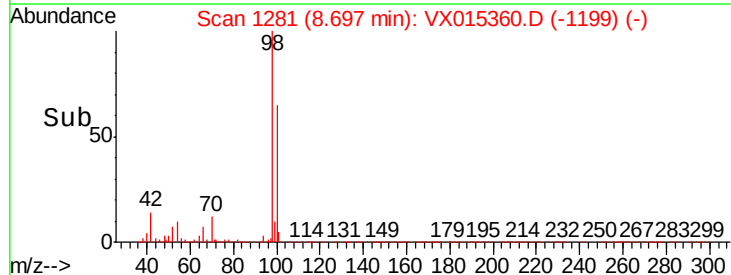
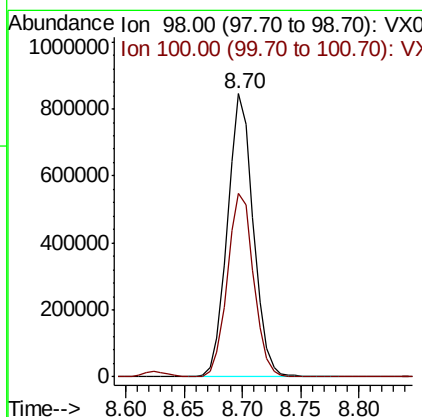
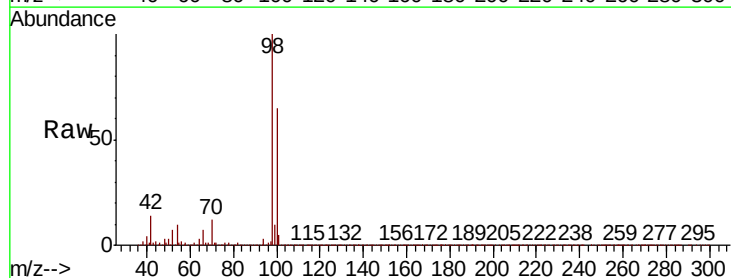
Instrument :
MSVOA_X
ClientSampleId :

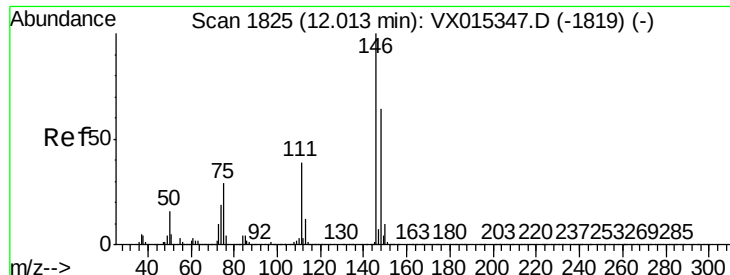
Tot Ion	Ratio	Lower	Upper
95	100		
174	79.5	66.4	99.6
176	77.9	64.1	96.1



#63
Toluene-d8
Concen: 30.674 ug/l
RT: 8.70 min Scan# 1281
Delta R.T. 0.00 min
Lab File: VX015360.D
Acq: 26 Mar 2020 15:52

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.9	52.2	78.2





#83

1,3-Dichlorobenzene

Concen: 0.226 ug/l

RT: 12.01 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VX015360.D

Acq: 26 Mar 2020 15:52

Instrument :

MSVOA_X

ClientSampled :

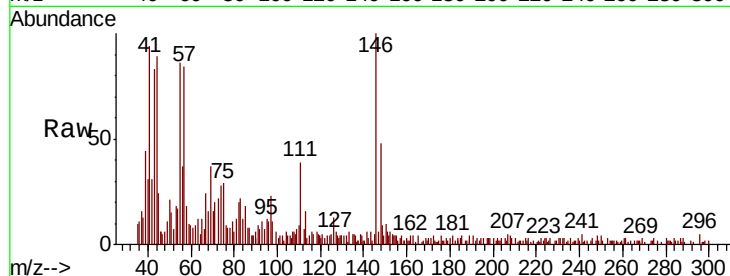
Tot Ion:146 Resp: 6175

Ion Ratio Lower Upper

146 100

111 38.9 20.1 60.2

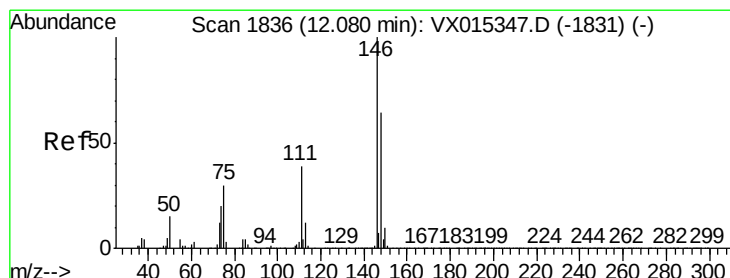
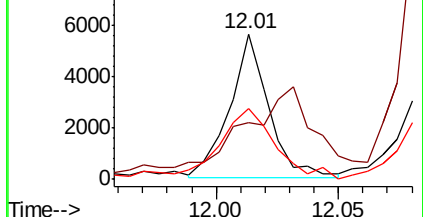
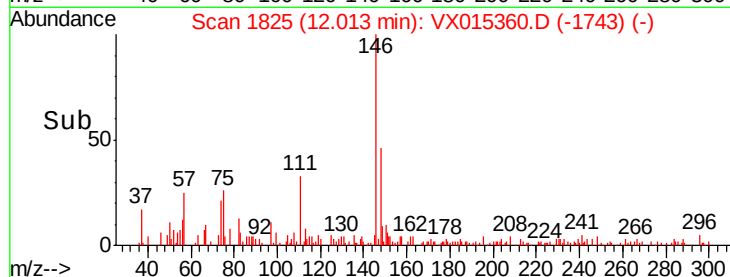
148 69.9 31.4 94.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#84

1,4-Dichlorobenzene

Concen: 0.217 ug/l

RT: 12.01 min Scan# 1825

Delta R.T. -0.07 min

Lab File: VX015360.D

Acq: 26 Mar 2020 15:52

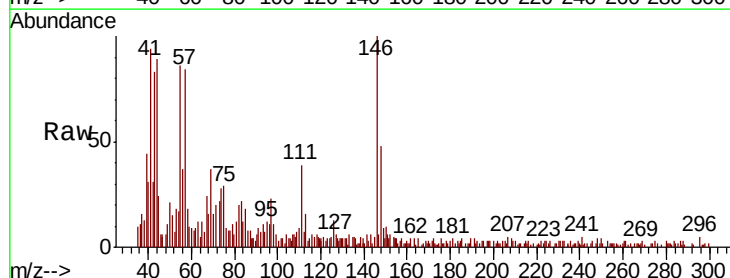
Tgt Ion:146 Resp: 5919

Ion Ratio Lower Upper

146 100

111 42.5 18.9 56.9

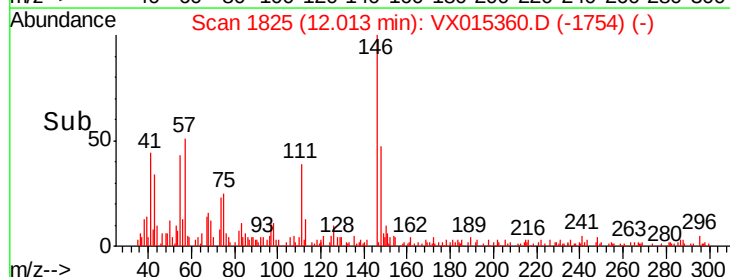
148 72.9 31.4 94.3



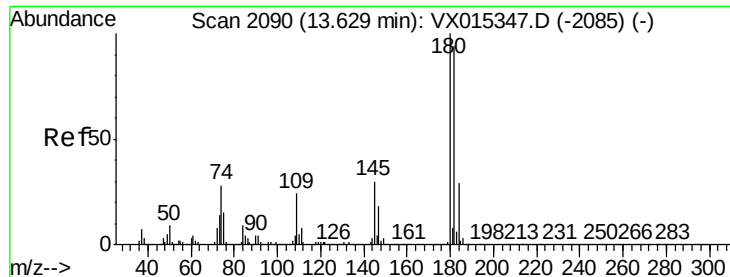
Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



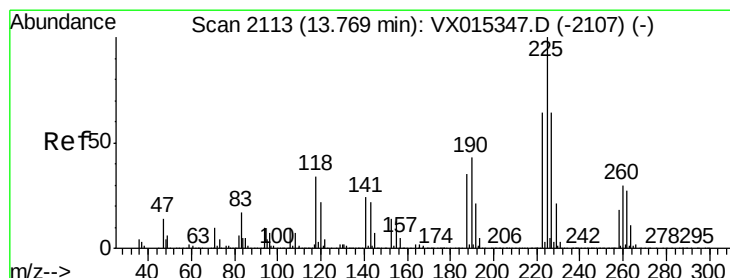
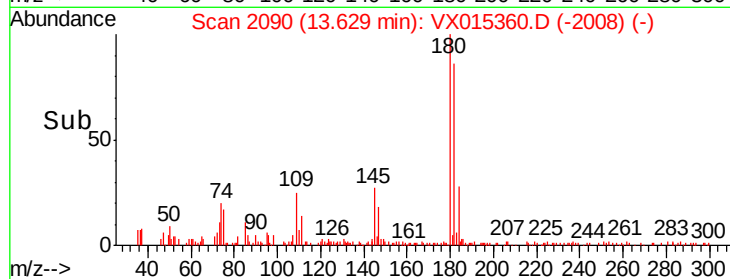
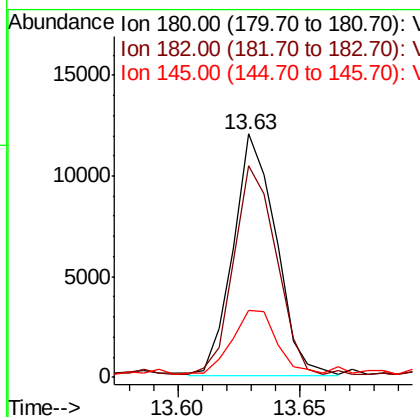
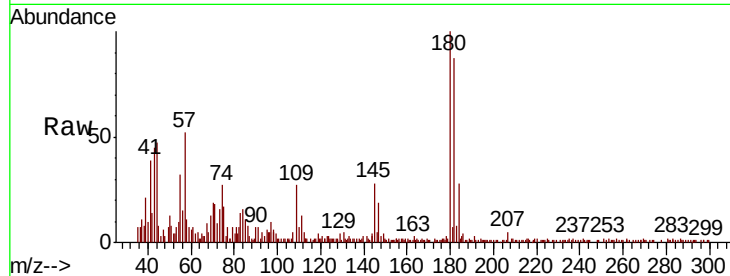
Time-->



#89
 1,2,4-Trichlorobenzene
 Concen: 0.679 ug/l
 RT: 13.63 min Scan# 2090
 Delta R.T. 0.00 min
 Lab File: VX015360.D
 Acq: 26 Mar 2020 15:52

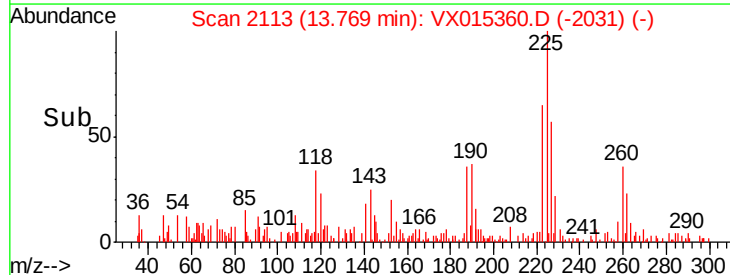
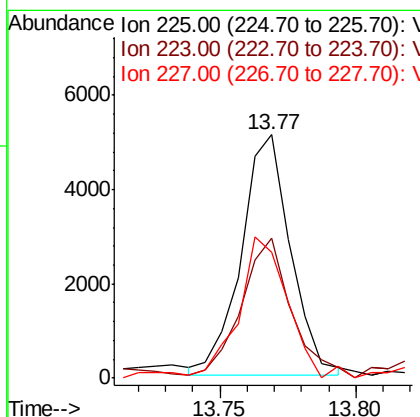
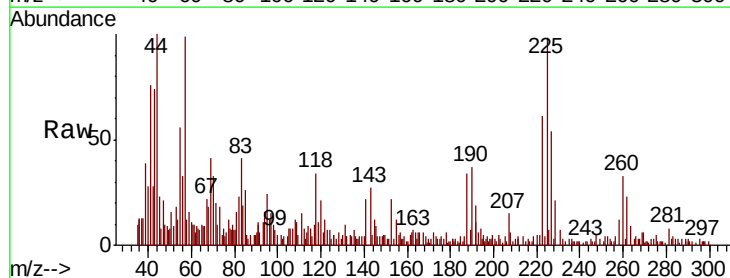
Instrument :
 MSVOA_X
 ClientSampleId :

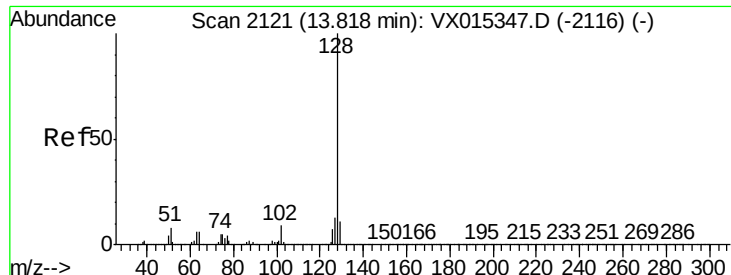
Tot Ion	Ratio	Lower	Upper
180	100		
182	85.8	76.9	115.3
145	26.7	24.3	36.5



#90
 Hexachlorobutadiene
 Concen: 0.570 ug/l
 RT: 13.77 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VX015360.D
 Acq: 26 Mar 2020 15:52

Tgt Ion	Ratio	Lower	Upper
225	100		
223	59.1	0.0	127.0
227	56.4	0.0	126.8





#91
Naphthalene
Concen: 0.348 ug/l
RT: 13.82 min Scan# 2121
Delta R.T. 0.00 min
Lab File: VX015360.D
Acq: 26 Mar 2020 15:52

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.3	10.3	15.5
129	13.1	8.9	13.3

