

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX101519\
 Data File : VX013072.D
 Acq On : 15 Oct 2019 12:58
 Operator : JC/SP
 Sample : K5111-08 1.0PPB LOQ
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Manual Integrations
 APPROVED

MMDadoda
 10/16/2019 9:57:54 AM

Quant Time: Oct 16 07:07:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 07:02:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	168944	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	285028	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	249535	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	108642	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.05	65	103191	48.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.74%	
35) Dibromofluoromethane	5.49	113	80189	49.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.04%	
50) Toluene-d8	8.71	98	300457	47.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.18%	
62) 4-Bromofluorobenzene	11.14	95	110381	44.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.04%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.19	85	1773	1.030	ug/l	94
3) Chloromethane	1.32	50	2003	1.069	ug/l	96
4) Vinyl Chloride	1.40	62	1777	0.919	ug/l	96
5) Bromomethane	1.64	94	1534	1.908	ug/l #	72
6) Chloroethane	1.72	64	1468	1.289	ug/l	90
7) Trichlorofluoromethane	1.92	101	2879	1.103	ug/l	90
8) Diethyl Ether	2.18	74	1144	1.086	ug/l	78
9) 1,1,2-Trichlorotrifluoroet	2.37	101	2056	1.217	ug/l	93
10) Methyl Iodide	2.50	142	2165	1.302	ug/l	96
11) Tert butyl alcohol	3.01	59	5842	10.437	ug/l #	86
12) 1,1-Dichloroethene	2.37	96	1811	1.061	ug/l #	83
13) Acrolein	2.28	56	1647	4.140	ug/l	98
14) Allyl chloride	2.72	41	3279	1.078	ug/l	93
15) Acrylonitrile	3.13	53	5530	5.213	ug/l	96
16) Acetone	2.43	43	5376	4.830	ug/l	99
17) Carbon Disulfide	2.56	76	5282	1.085	ug/l #	90
18) Methyl Acetate	2.76	43	2784	1.055	ug/l	100
19) Methyl tert-butyl Ether	3.19	73	6132	1.040	ug/l	97
20) Methylene Chloride	2.85	84	2367	1.157	ug/l	95
21) trans-1,2-Dichloroethene	3.16	96	1899	1.038	ug/l	89
22) Diisopropyl ether	3.84	45	6081	1.044	ug/l #	45
23) Vinyl Acetate	3.81	43	22591	4.492	ug/l #	93
24) 1,1-Dichloroethane	3.69	63	3570	1.089	ug/l	94
25) 2-Butanone	4.67	43	7465	4.834	ug/l	93
26) 2,2-Dichloropropane	4.57	77	2863	1.039	ug/l	90
27) cis-1,2-Dichloroethene	4.58	96	2374	1.126	ug/l	92
28) Bromochloromethane	5.00	49	1104	1.176	ug/l #	97
29) Tetrahydrofuran	5.14	42	4403	4.634	ug/l	96
30) Chloroform	5.19	83	3755	1.117	ug/l	97
31) Cyclohexane	5.56	56	3254	1.062	ug/l #	92
32) 1,1,1-Trichloroethane	5.49	97	2746m	0.964	ug/l	
36) 1,1-Dichloropropene	5.80	75	2747	1.096	ug/l	98
37) Ethyl Acetate	4.83	43	2684	0.958	ug/l #	80
38) Carbon Tetrachloride	5.78	117	2421	0.993	ug/l #	85

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101519\
 Data File : VX013072.D
 Acq On : 15 Oct 2019 12:58
 Operator : JC/SP
 Sample : K5111-08 1.0PPB LOQ
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Manual Integrations
 APPROVED

MMDadoda
 10/16/2019 9:57:54 AM

Quant Time: Oct 16 07:07:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 07:02:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	3295	1.084	ug/l	91
40) Benzene	6.14	78	8073	1.091	ug/l	98
41) Methacrylonitrile	5.03	41	1581	1.027	ug/l #	84
42) 1,2-Dichloroethane	6.20	62	3085	1.162	ug/l	93
43) Isopropyl Acetate	6.43	43	4019	0.894	ug/l	97
44) Trichloroethene	7.21	130	2185	1.065	ug/l	91
45) 1,2-Dichloropropane	7.51	63	1925	1.020	ug/l	99
46) Dibromomethane	7.66	93	1160	0.923	ug/l	87
47) Bromodichloromethane	7.89	83	2261	0.922	ug/l #	84
48) Methyl methacrylate	7.78	41	2037	0.929	ug/l	95
49) 1,4-Dioxane	7.73	88	969	18.287	ug/l	93
51) 4-Methyl-2-Pentanone	8.64	43	12755	4.549	ug/l	98
52) Toluene	8.78	92	5039	1.064	ug/l	99
53) t-1,3-Dichloropropene	9.04	75	2322	0.855	ug/l	96
54) cis-1,3-Dichloropropene	8.43	75	2625	0.870	ug/l #	91
55) 1,1,2-Trichloroethane	9.21	97	2033	1.085	ug/l	90
56) Ethyl methacrylate	9.18	69	2722	0.897	ug/l	97
57) 1,3-Dichloropropane	9.37	76	3401	1.049	ug/l	96
58) 2-Chloroethyl Vinyl ether	8.31	63	5368	3.899	ug/l	99
59) 2-Hexanone	9.49	43	9477	4.342	ug/l	97
60) Dibromochloromethane	9.58	129	1561	0.850	ug/l	78
61) 1,2-Dibromoethane	9.67	107	1780	0.903	ug/l	86
64) Tetrachloroethene	9.34	164	2060	1.190	ug/l #	87
65) Chlorobenzene	10.14	112	5109	1.031	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.21	131	1761	1.025	ug/l #	66
67) Ethyl Benzene	10.25	91	8913	1.013	ug/l	98
68) m/p-Xylenes	10.35	106	6387	1.942	ug/l	97
69) o-Xylene	10.70	106	3267	1.019	ug/l	100
70) Styrene	10.71	104	5023	0.921	ug/l	98
71) Bromoform	10.85	173	1002	0.809	ug/l #	84
73) Isopropylbenzene	11.01	105	8180	1.024	ug/l	98
74) N-amyl acetate	10.90	43	3209	0.933	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.26	83	2709	1.020	ug/l	96
76) 1,2,3-Trichloropropane	11.29	75	2263m	0.939	ug/l	
77) Bromobenzene	11.25	156	2306	1.225	ug/l	92
78) n-propylbenzene	11.35	91	9042	1.029	ug/l	95
79) 2-Chlorotoluene	11.42	91	6135	1.111	ug/l	97
80) 1,3,5-Trimethylbenzene	11.50	105	6686	1.002	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.07	75	664m	0.780	ug/l	
82) 4-Chlorotoluene	11.51	91	6571	1.038	ug/l	94
83) tert-Butylbenzene	11.77	119	6387	0.982	ug/l	90
84) 1,2,4-Trimethylbenzene	11.81	105	6282	0.930	ug/l	99
85) sec-Butylbenzene	11.94	105	7239	0.960	ug/l	96
86) p-Isopropyltoluene	12.06	119	6767	0.968	ug/l	93
87) 1,3-Dichlorobenzene	12.03	146	3880	1.110	ug/l	99
88) 1,4-Dichlorobenzene	12.09	146	4074m	1.151	ug/l	
89) n-Butylbenzene	12.38	91	5440	0.926	ug/l	99
90) Hexachloroethane	12.59	117	977	0.863	ug/l	91
91) 1,2-Dichlorobenzene	12.39	146	3777	1.102	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.00	75	561	0.901	ug/l	84

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101519\
Data File : VX013072.D
Acq On : 15 Oct 2019 12:58
Operator : JC/SP
Sample : K5111-08 1.0PPB L00
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

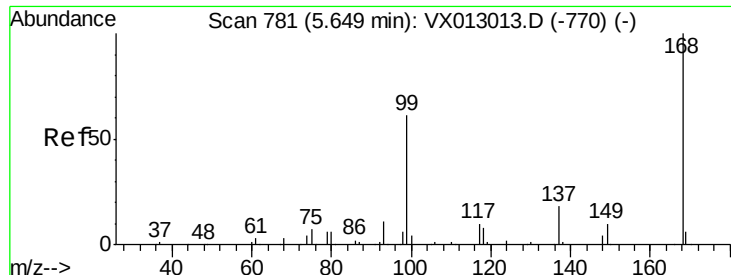
Manual Integrations
APPROVED

MMDadoda
10/16/2019 9:57:54 AM

Quant Time: Oct 16 07:07:02 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 07:02:20 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.64	180	2350	1.095	ug/l	87
94) Hexachlorobutadiene	13.77	225	937	0.946	ug/l	94
95) Naphthalene	13.83	128	7181	0.965	ug/l	99
96) 1,2,3-Trichlorobenzene	14.02	180	2342	1.056	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX013072.D

Acq: 15 Oct 2019 12:58

Instrument :

MSVOA_X

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:168 Resp: 168944

Ion Ratio Lower Upper

168 100

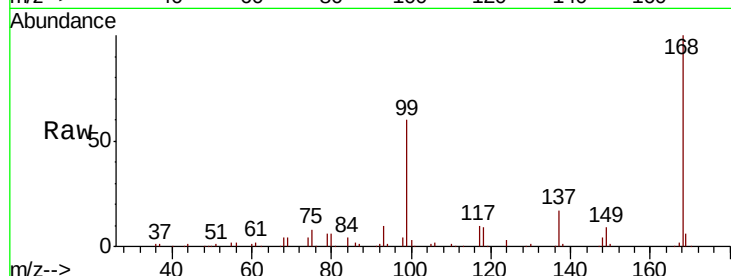
99 60.1 49.4 74.0

Manual Integrations

APPROVED

MMDadoda

10/16/2019 9:57:54 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

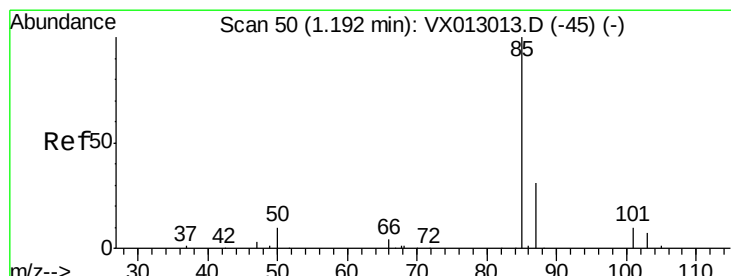
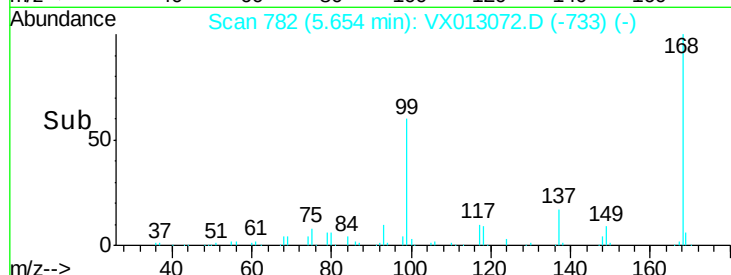
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 1.030 ug/l

RT: 1.19 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX013072.D

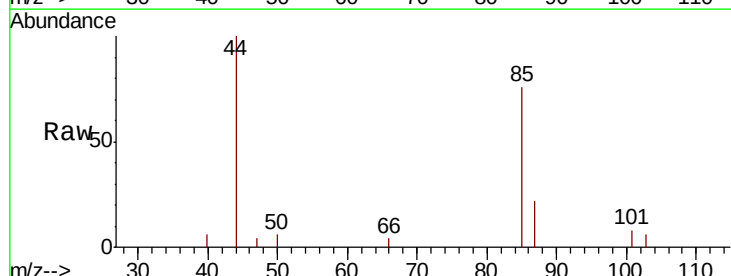
Acq: 15 Oct 2019 12:58

Tgt Ion: 85 Resp: 1773

Ion Ratio Lower Upper

85 100

87 29.4 16.4 49.4



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

2000

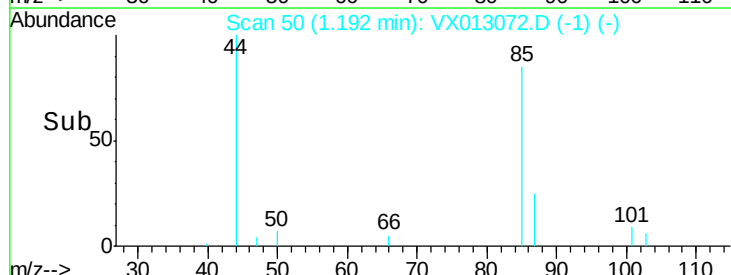
1500

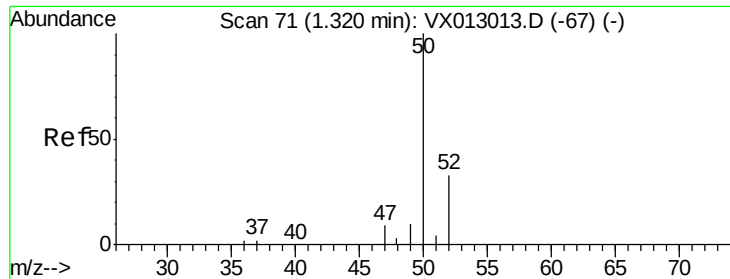
1000

500

0

Time--> 1.15 1.20





#3

Chloromethane

Concen: 1.069 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX013072.D

Acq: 15 Oct 2019 12:58

Instrument :

MSVOA_X

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 50 Resp: 2003

Ion Ratio Lower Upper

50 100

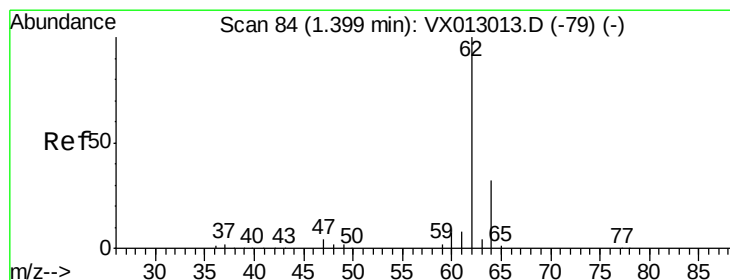
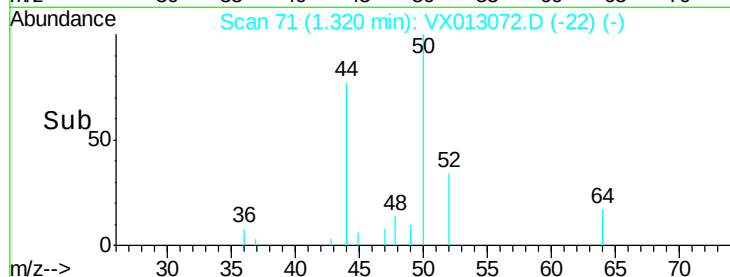
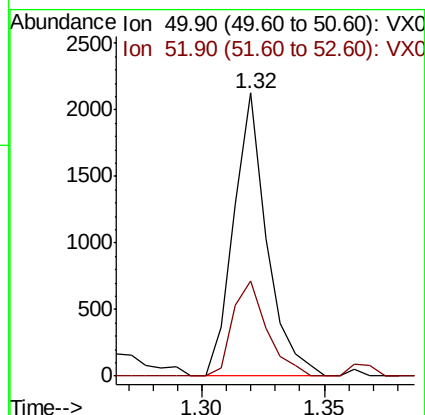
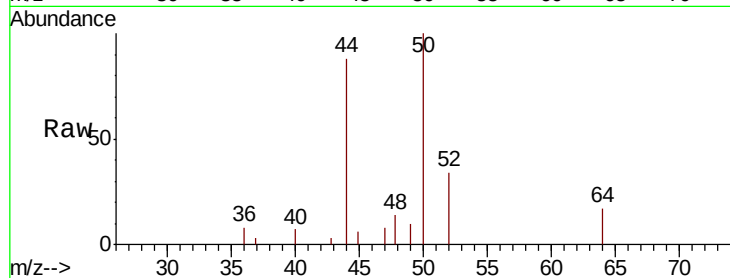
52 33.6 25.2 37.8

Manual Integrations

APPROVED

MMDadoda

10/16/2019 9:57:54 AM



#4

Vinyl Chloride

Concen: 0.919 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX013072.D

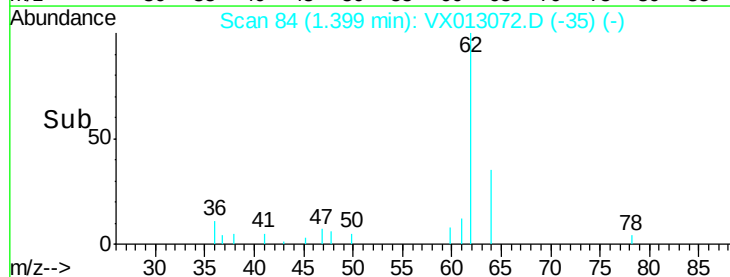
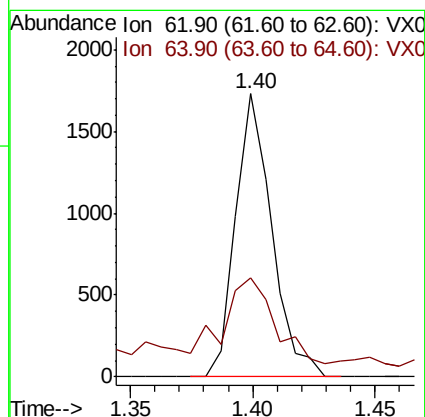
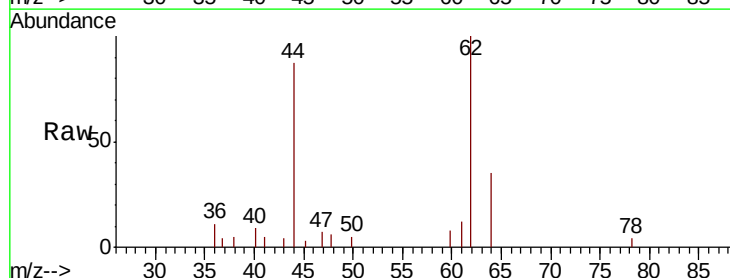
Acq: 15 Oct 2019 12:58

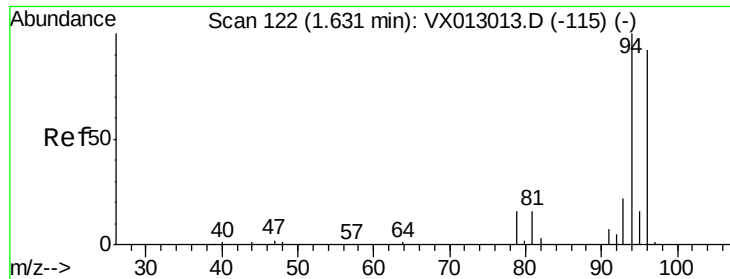
Tgt Ion: 62 Resp: 1777

Ion Ratio Lower Upper

62 100

64 29.6 25.3 37.9





#5

Bromomethane

Concen: 1.908 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX013072.D

Acq: 15 Oct 2019 12:58

Instrument :

MSVOA_X

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 94 Resp: 1534

Ion Ratio Lower Upper

94 100

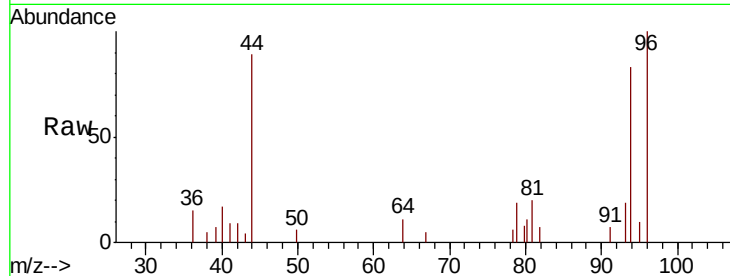
96 120.6 74.7 112.1#

Manual Integrations

APPROVED

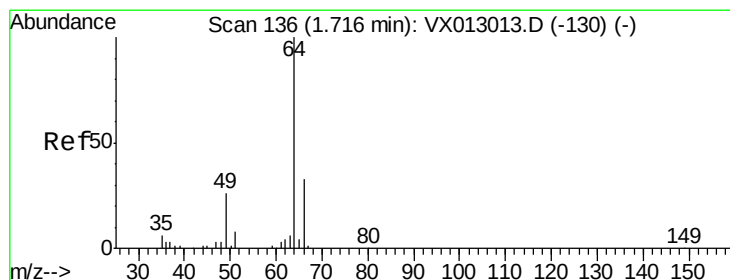
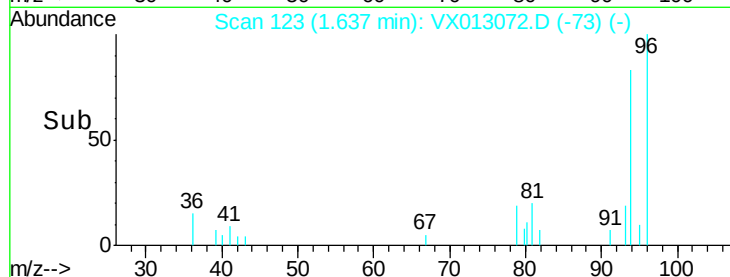
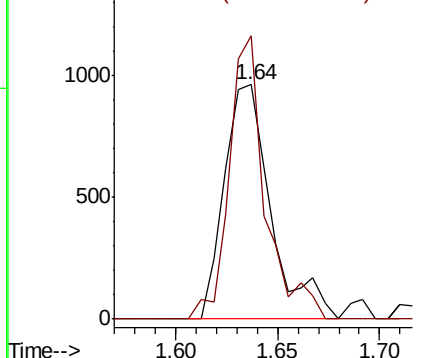
MMDadoda

10/16/2019 9:57:54 AM



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 1.289 ug/l

RT: 1.72 min Scan# 137

Delta R.T. 0.01 min

Lab File: VX013072.D

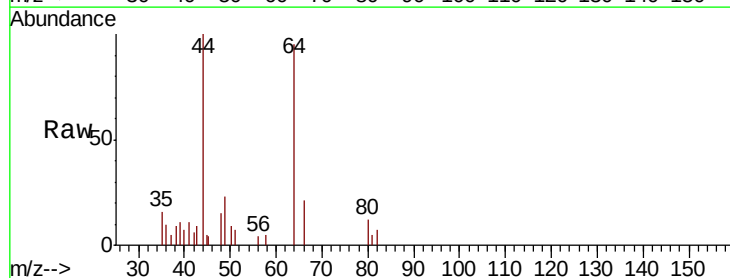
Acq: 15 Oct 2019 12:58

Tgt Ion: 64 Resp: 1468

Ion Ratio Lower Upper

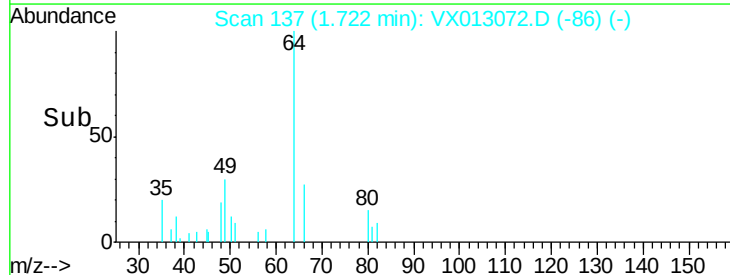
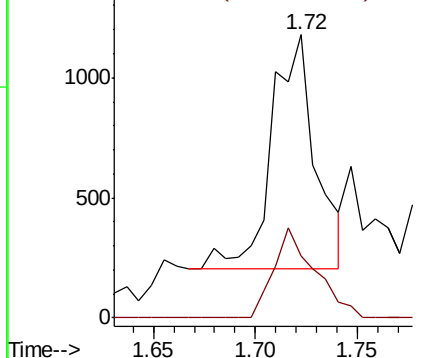
64 100

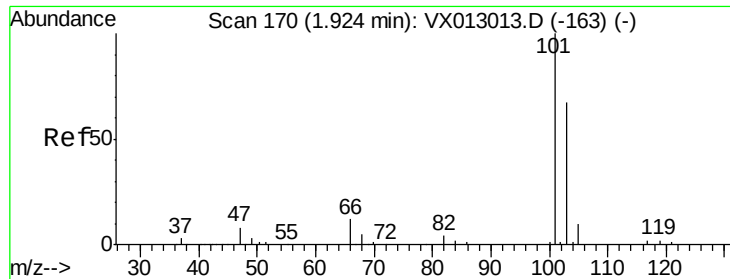
66 26.4 25.6 38.4



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#7

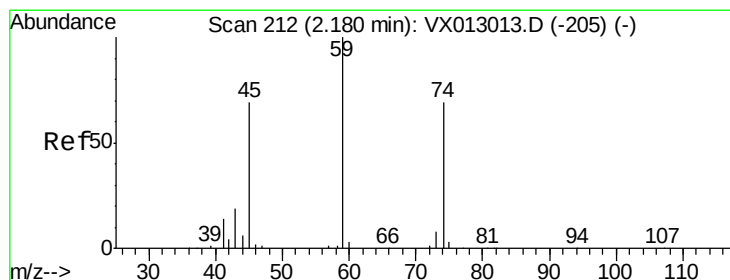
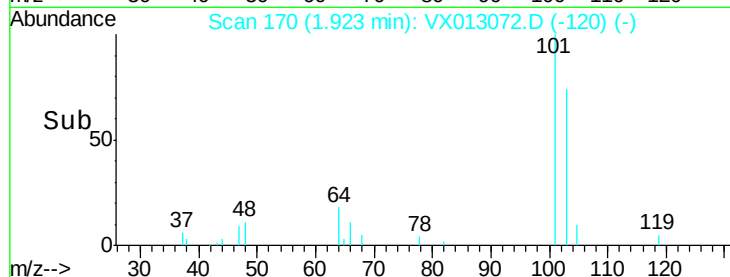
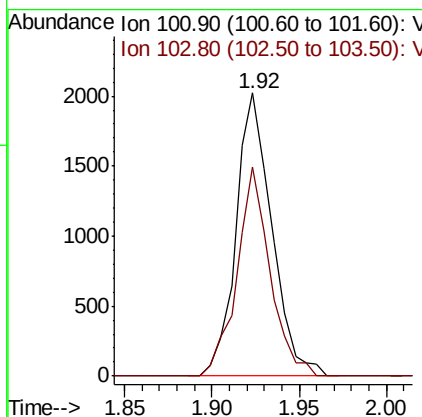
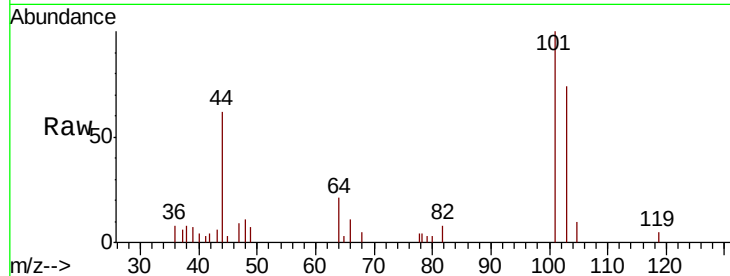
Trichlorofluoromethane
Concen: 1.103 ug/l
RT: 1.92 min Scan# 170
Delta R.T. 0.01 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion:101 Resp: 2879
Ion Ratio Lower Upper
101 100
103 73.7 52.5 78.7

Manual Integrations
APPROVED

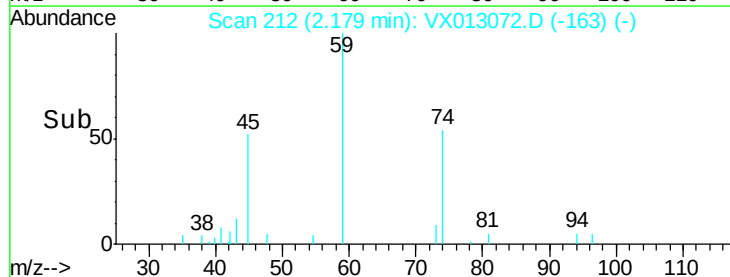
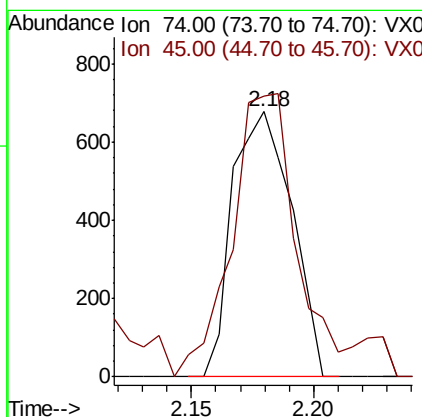
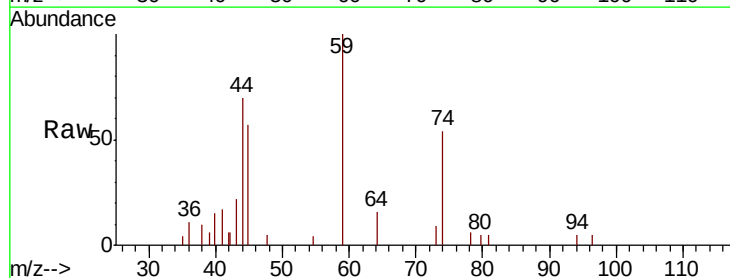
MMDadoda
10/16/2019 9:57:54 AM

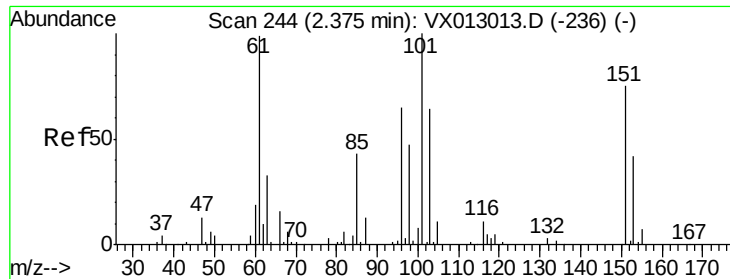


#8

Diethyl Ether
Concen: 1.086 ug/l
RT: 2.18 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Tgt Ion: 74 Resp: 1144
Ion Ratio Lower Upper
74 100
45 117.0 47.8 143.4





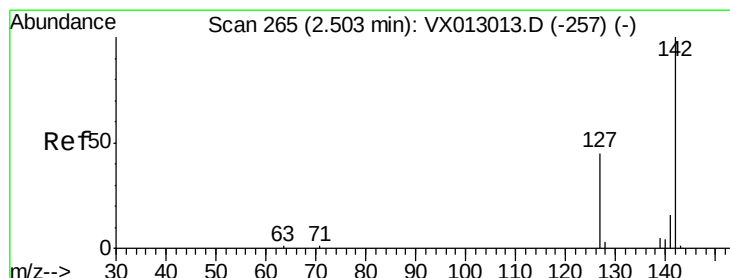
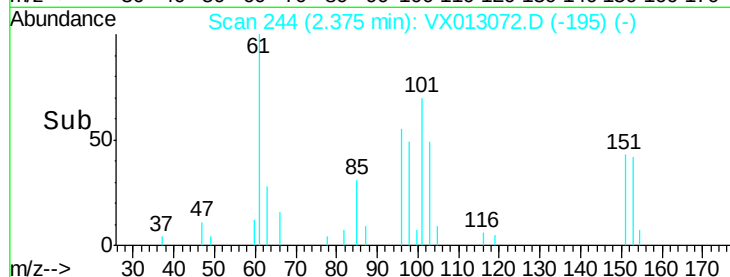
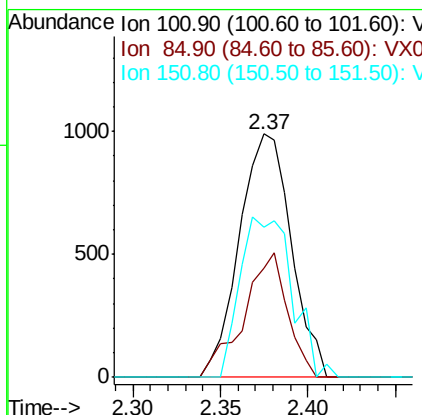
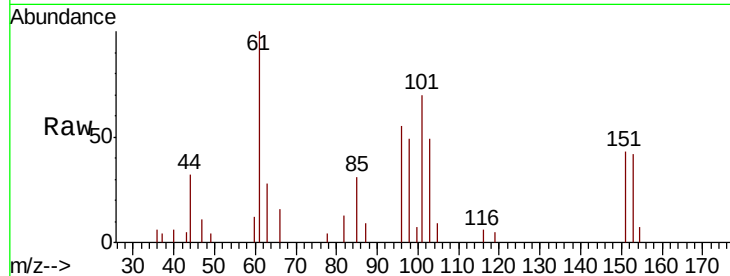
#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.217 ug/l
RT: 2.37 min Scan# 244
Delta R.T. -0.00 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
101	100		
85	43.1	35.2	52.8
151	66.1	60.3	90.5

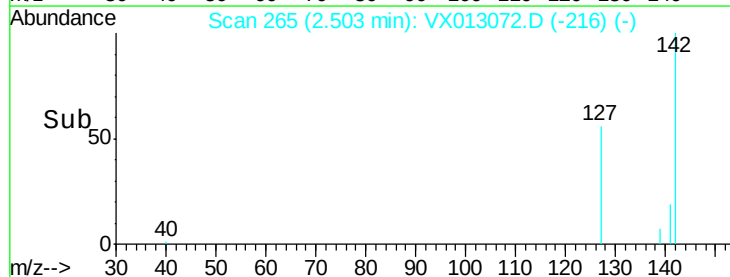
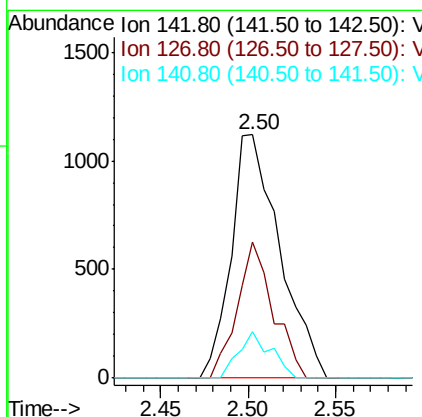
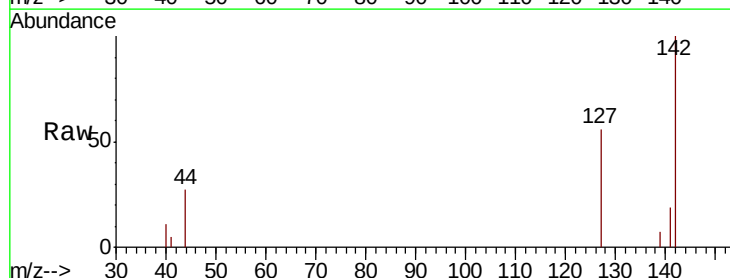
Manual Integrations
APPROVED

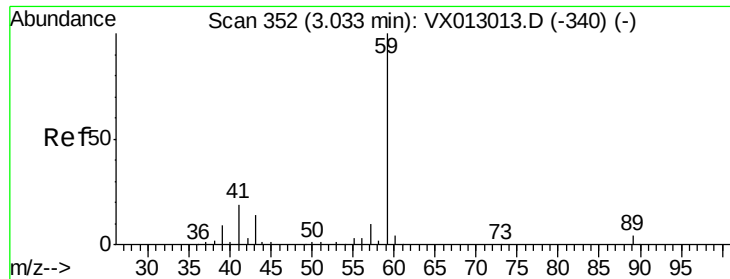
MMDadoda
10/16/2019 9:57:54 AM



#10
Methyl Iodide
Concen: 1.302 ug/l
RT: 2.50 min Scan# 265
Delta R.T. 0.00 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Tgt Ion	Ratio	Lower	Upper
142	100		
127	41.3	34.9	52.3
141	12.6	11.6	17.4





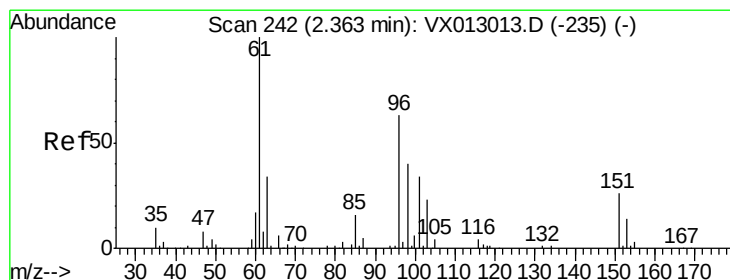
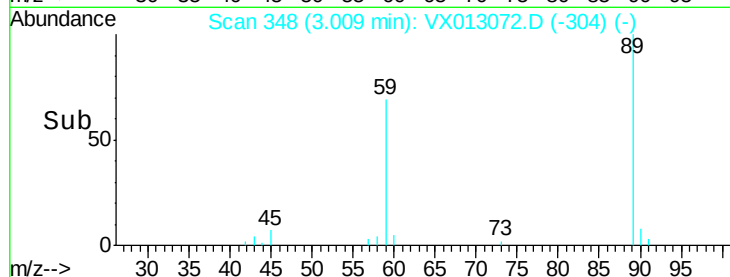
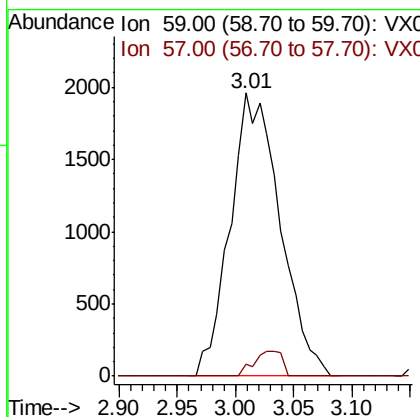
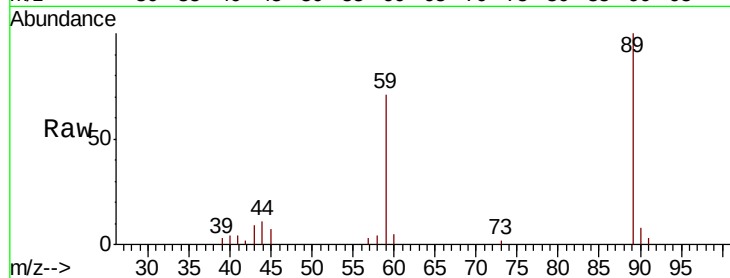
#11
Tert butyl alcohol
Concen: 10.437 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.03 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion: 59 Resp: 5842
Ion Ratio Lower Upper
59 100
57 5.0 8.3 12.5#

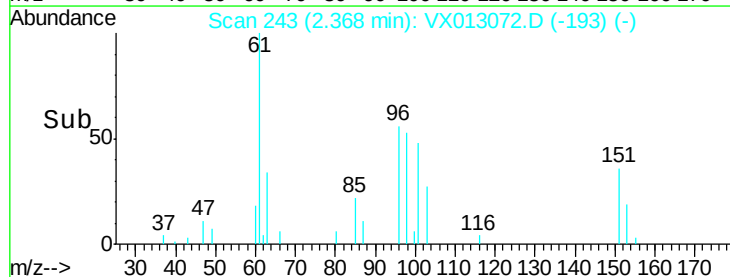
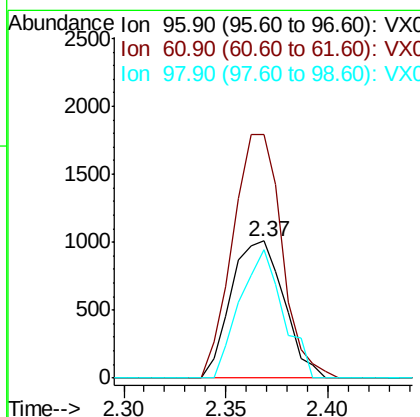
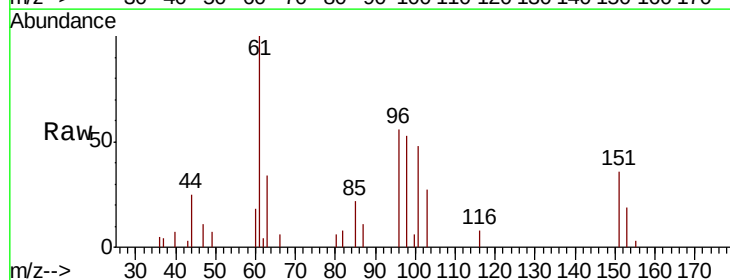
Manual Integrations
APPROVED

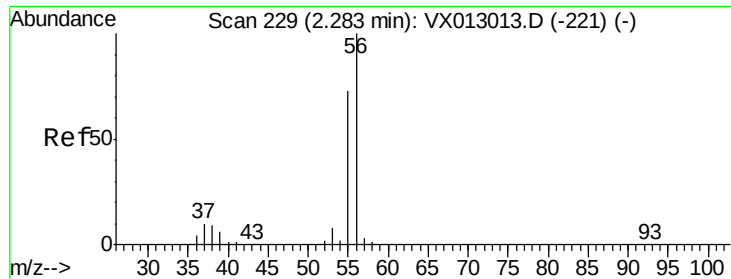
MMDadoda
10/16/2019 9:57:54 AM



#12
1,1-Dichloroethene
Concen: 1.061 ug/l
RT: 2.37 min Scan# 243
Delta R.T. 0.01 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Tgt Ion: 96 Resp: 1811
Ion Ratio Lower Upper
96 100
61 177.2 132.2 198.4
98 93.3 50.5 75.7#





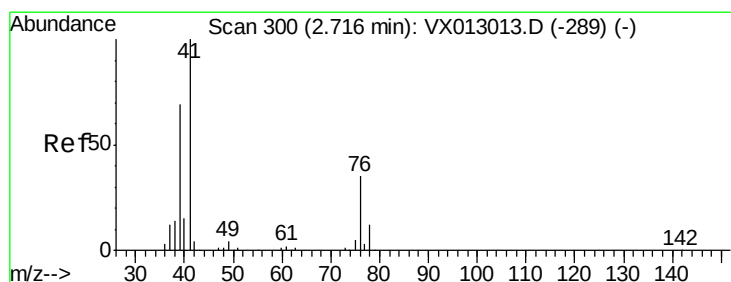
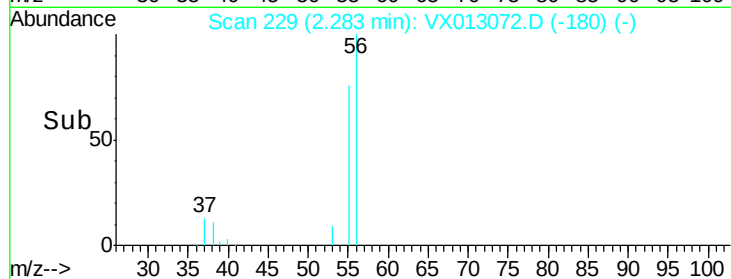
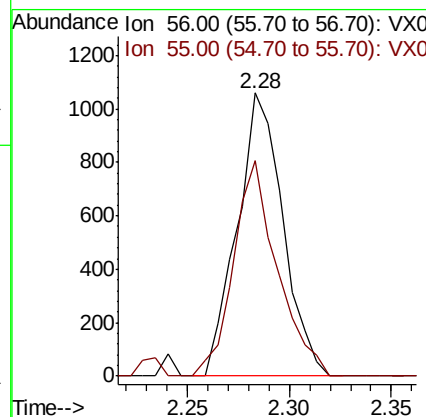
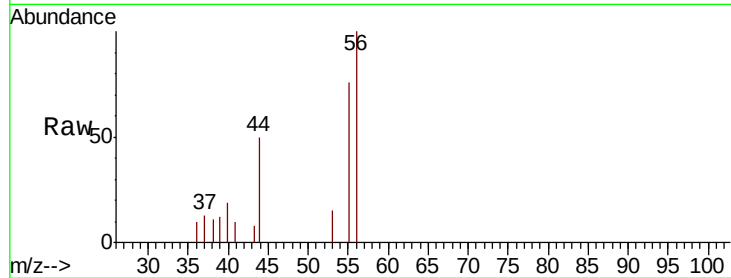
#13
Acrolein
Concen: 4.140 ug/l
RT: 2.28 min Scan# 229
Delta R.T. -0.00 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
56	100		
55	72.9	56.6	85.0

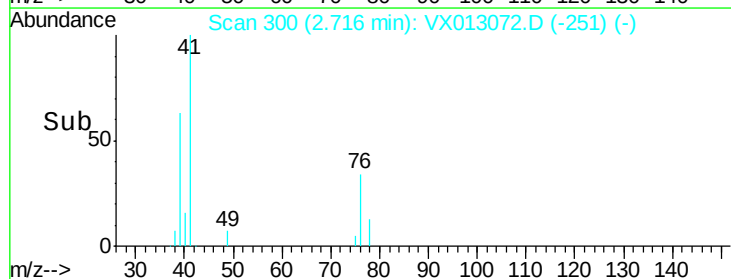
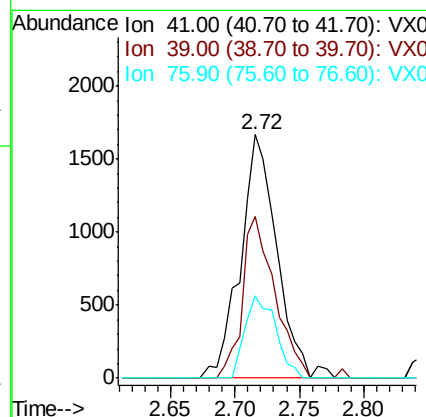
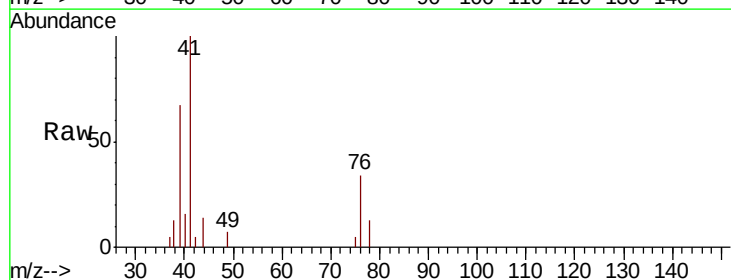
Manual Integrations
APPROVED

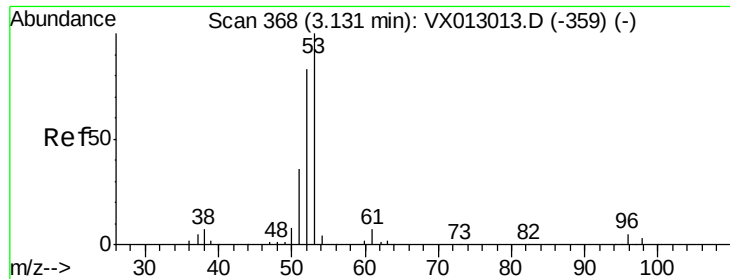
MMDadoda
10/16/2019 9:57:54 AM



#14
Allyl chloride
Concen: 1.078 ug/l
RT: 2.72 min Scan# 300
Delta R.T. -0.00 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Tgt Ion	Ratio	Lower	Upper
41	100		
39	58.9	51.0	76.6
76	28.3	26.2	39.4





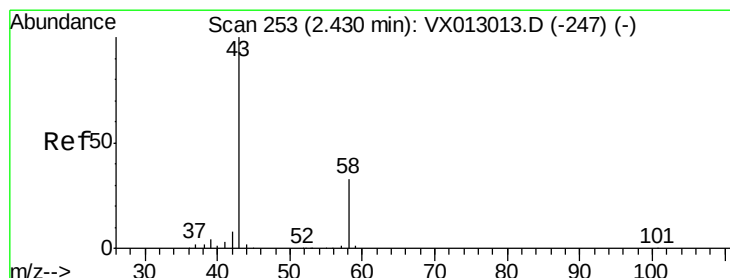
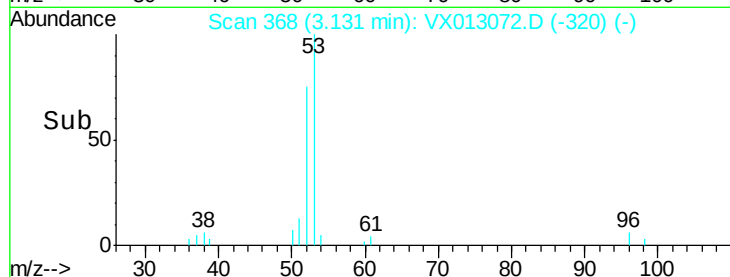
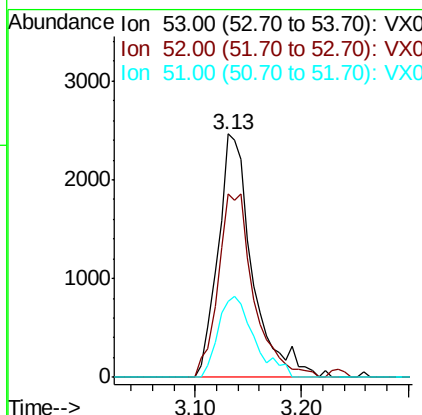
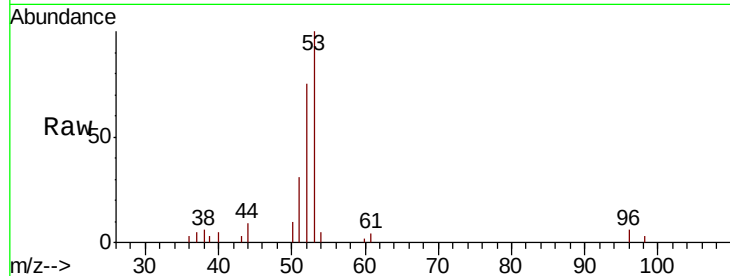
#15
 Acrylonitrile
 Concen: 5.213 ug/l
 RT: 3.13 min Scan# 368
 Delta R.T. -0.01 min
 Lab File: VX013072.D
 Acq: 15 Oct 2019 12:58

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
53	100		
52	78.2	66.2	99.2
51	34.9	28.2	42.4

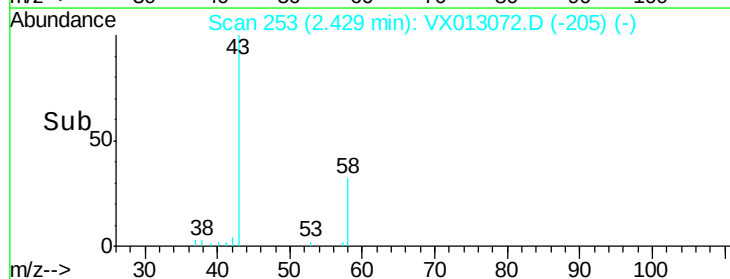
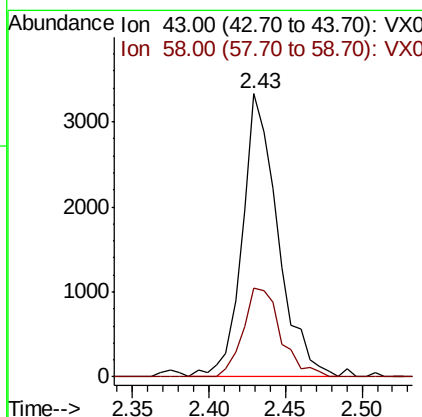
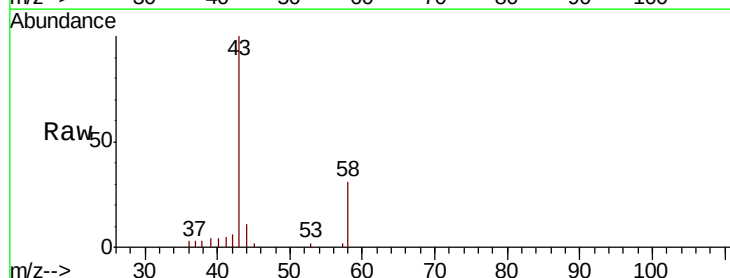
Manual Integrations
 APPROVED

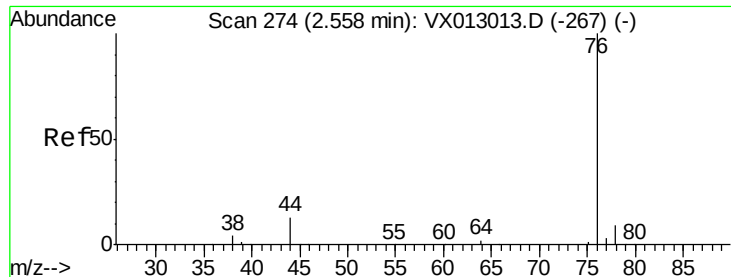
MMDadoda
 10/16/2019 9:57:54 AM



#16
 Acetone
 Concen: 4.830 ug/l
 RT: 2.43 min Scan# 253
 Delta R.T. -0.01 min
 Lab File: VX013072.D
 Acq: 15 Oct 2019 12:58

Tgt Ion	Ratio	Lower	Upper
43	100		
58	31.2	25.4	38.2





#17

Carbon Disulfide

Concen: 1.085 ug/l

RT: 2.56 min Scan# 274

Delta R.T. -0.01 min

Lab File: VX013072.D

Acq: 15 Oct 2019 12:58

Instrument :

MSVOA_X

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 76 Resp: 5282

Ion Ratio Lower Upper

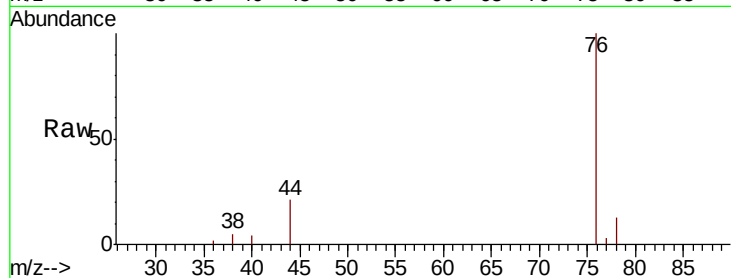
76 100

78 12.6 7.1 10.7#

Manual Integrations
APPROVED

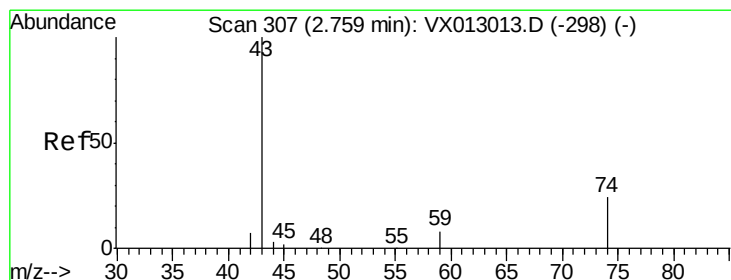
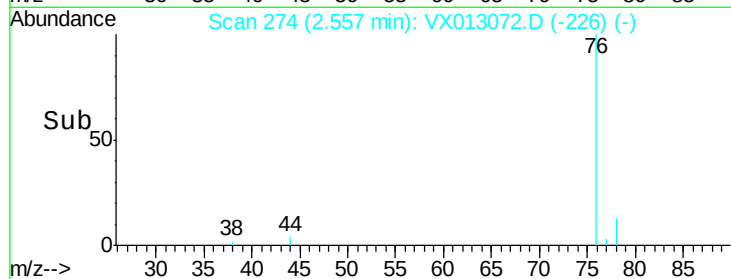
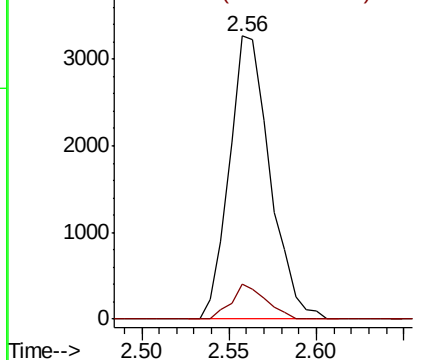
MMDadoda

10/16/2019 9:57:54 AM



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 1.055 ug/l

RT: 2.76 min Scan# 308

Delta R.T. -0.00 min

Lab File: VX013072.D

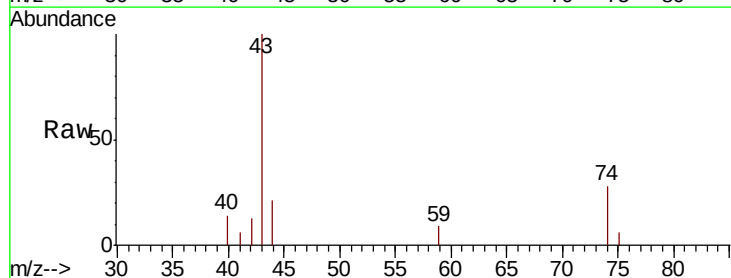
Acq: 15 Oct 2019 12:58

Tgt Ion: 43 Resp: 2784

Ion Ratio Lower Upper

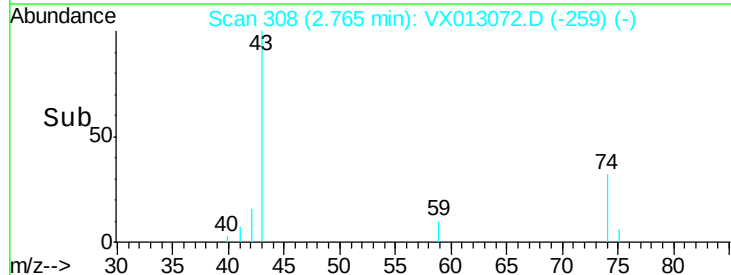
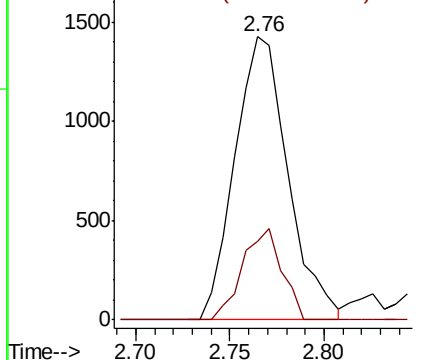
43 100

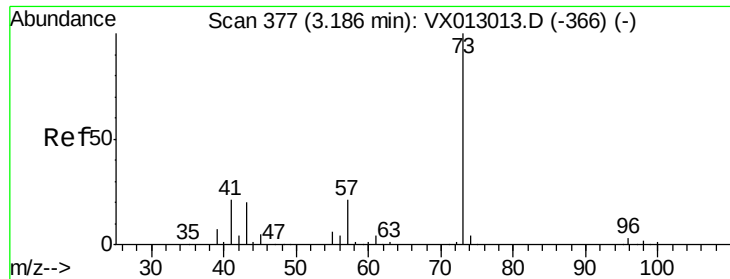
74 23.9 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





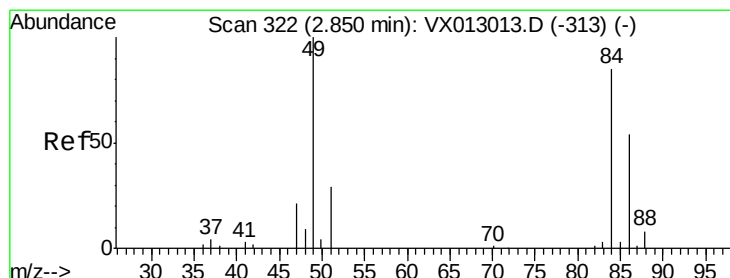
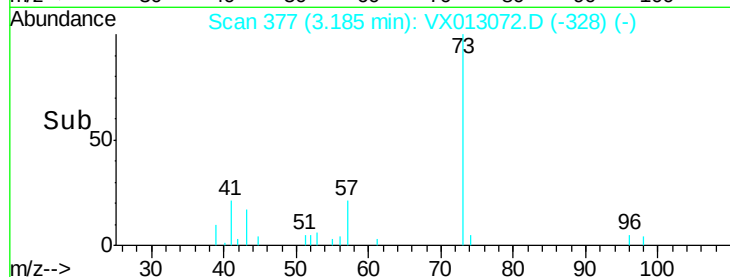
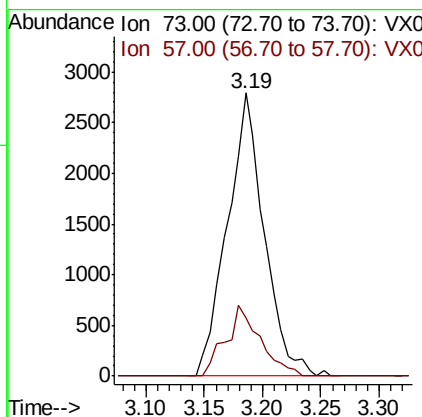
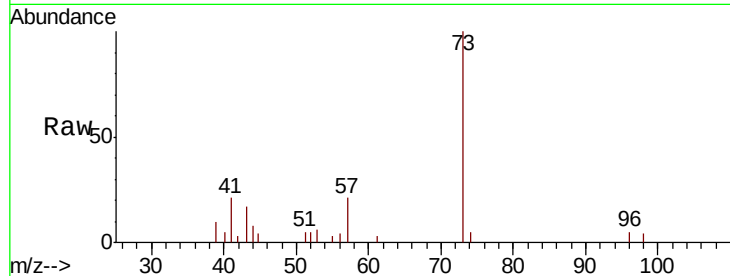
#19
Methyl tert-butyl Ether
Concen: 1.040 ug/l
RT: 3.19 min Scan# 377
Delta R.T. -0.00 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion: 73 Resp: 6132
Ion Ratio Lower Upper
73 100
57 20.5 17.8 26.6

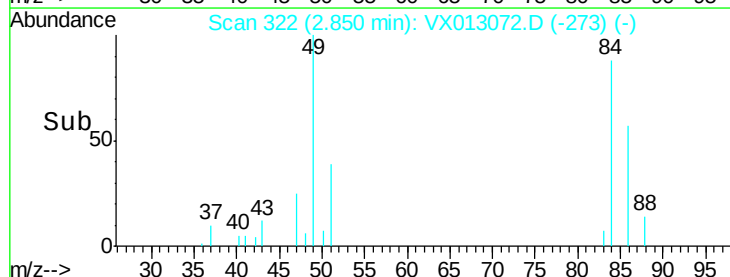
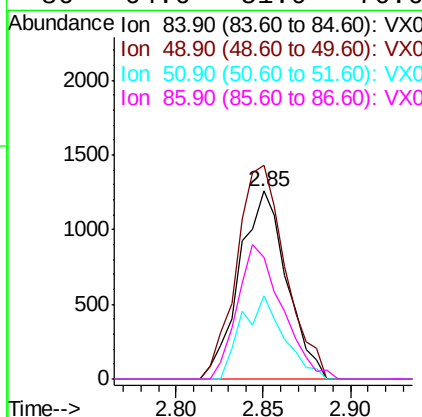
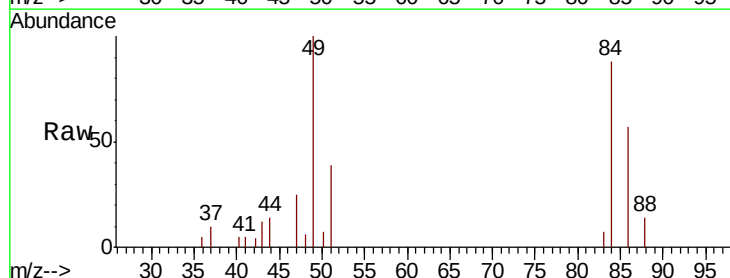
Manual Integrations
APPROVED

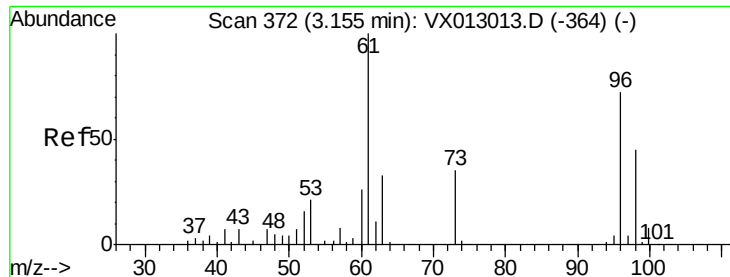
MMDadoda
10/16/2019 9:57:54 AM



#20
Methylene Chloride
Concen: 1.157 ug/l
RT: 2.85 min Scan# 322
Delta R.T. -0.00 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Tgt Ion: 84 Resp: 2367
Ion Ratio Lower Upper
84 100
49 113.8 96.6 144.8
51 44.3 30.7 46.1
86 64.6 51.0 76.6





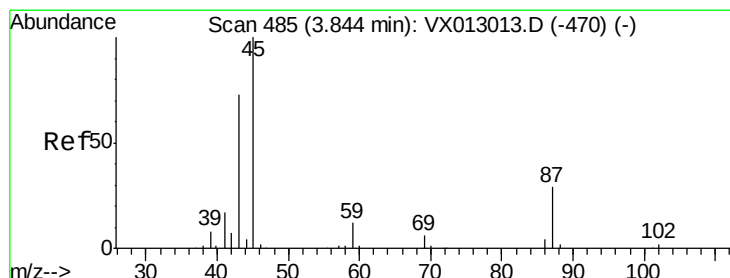
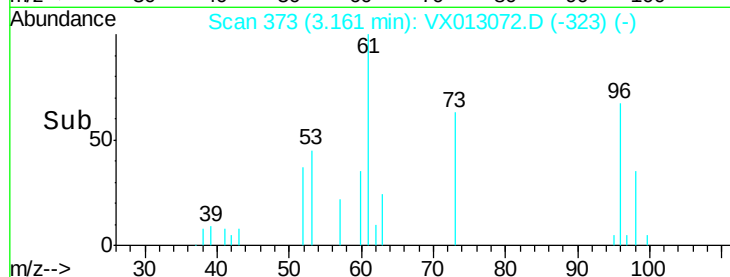
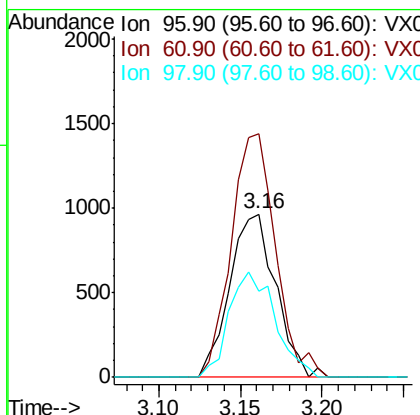
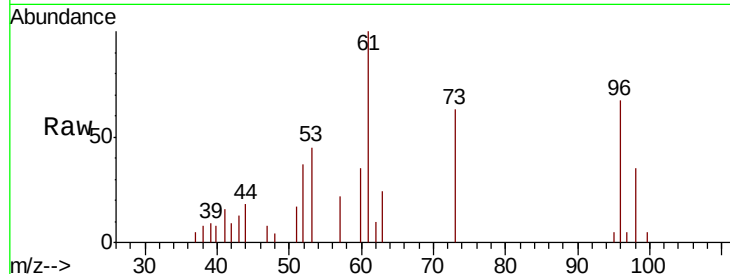
#21
trans-1,2-Dichloroethene
Concen: 1.038 ug/l
RT: 3.16 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	149.1	110.4	165.6
98	52.5	51.5	77.3

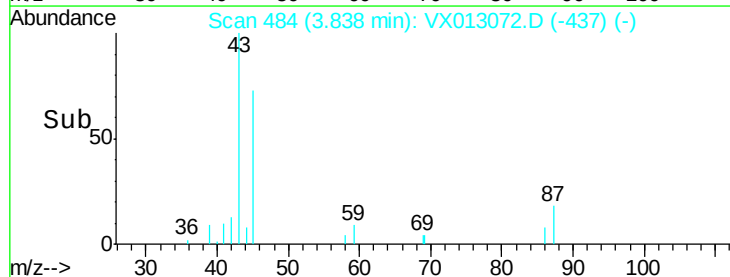
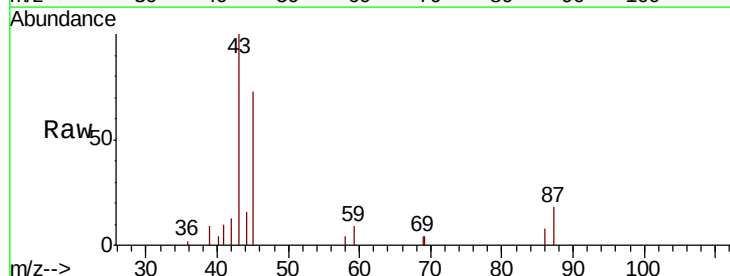
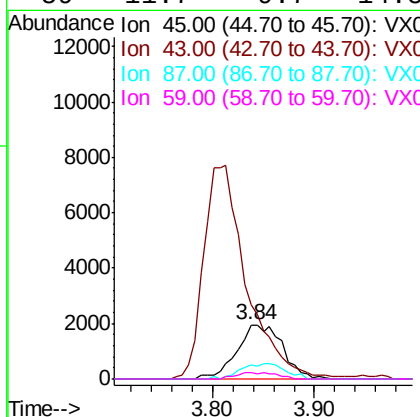
Manual Integrations
APPROVED

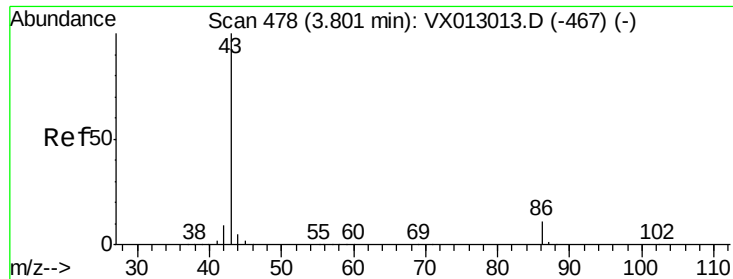
MMDadoda
10/16/2019 9:57:54 AM



#22
Diisopropyl ether
Concen: 1.044 ug/l
RT: 3.84 min Scan# 484
Delta R.T. -0.01 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Tgt Ion	Ratio	Lower	Upper
45	100		
43	132.1	51.4	77.0#
87	25.2	22.5	33.7
59	11.7	9.7	14.5





#23

Vinyl Acetate

Concen: 4.492 ug/l

RT: 3.81 min Scan# 480

Delta R.T. 0.01 min

Lab File: VX013072.D

Acq: 15 Oct 2019 12:58

Instrument :

MSVOA_X

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 43 Resp: 22591

Ion Ratio Lower Upper

43 100

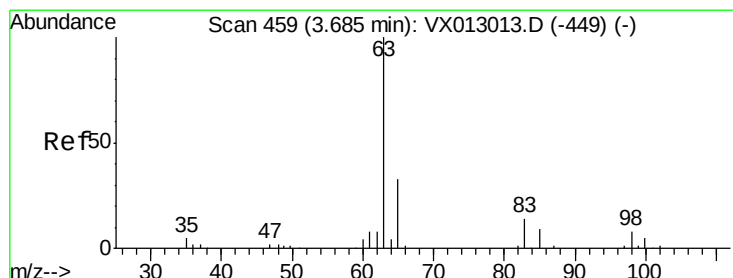
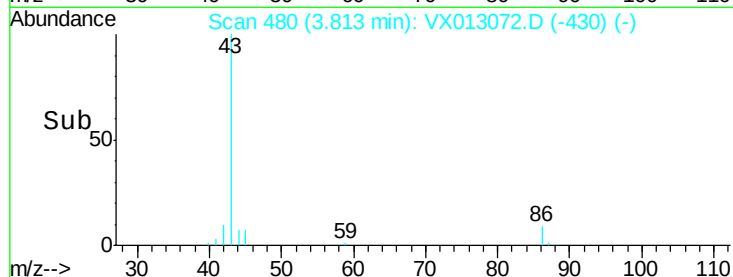
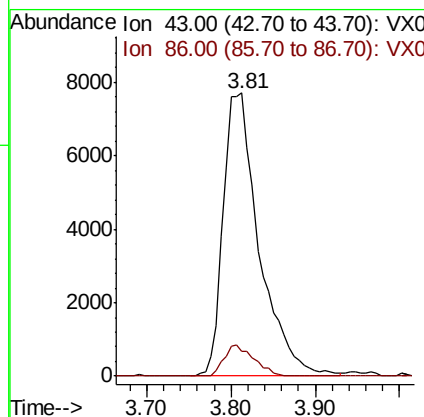
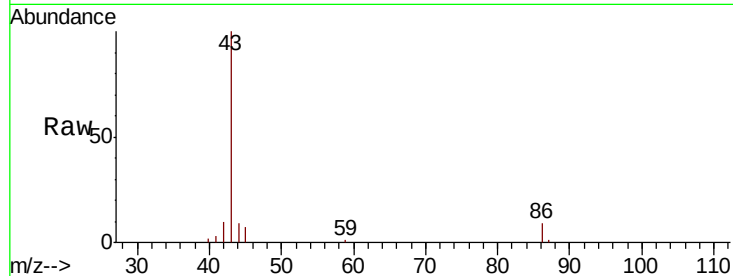
86 8.8 9.0 13.6#

Manual Integrations

APPROVED

MMDadoda

10/16/2019 9:57:54 AM



#24

1,1-Dichloroethane

Concen: 1.089 ug/l

RT: 3.69 min Scan# 459

Delta R.T. -0.00 min

Lab File: VX013072.D

Acq: 15 Oct 2019 12:58

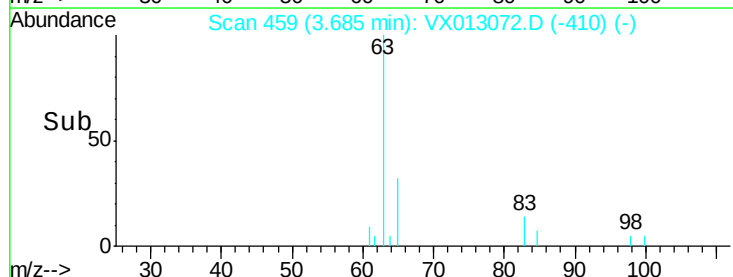
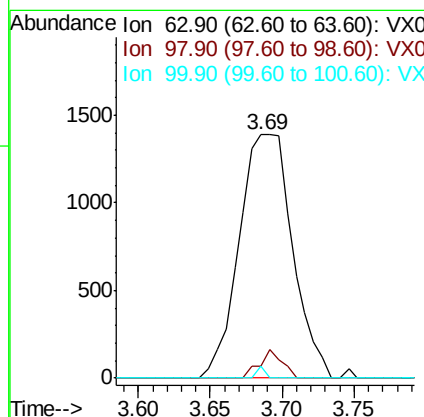
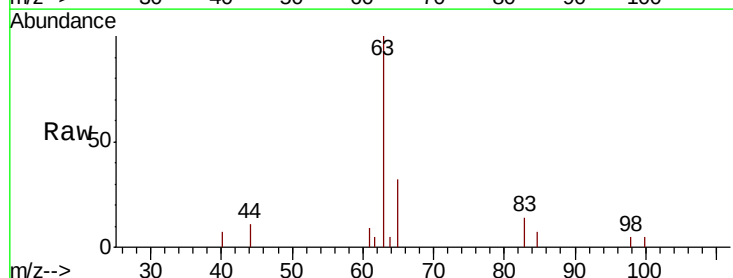
Tgt Ion: 63 Resp: 3570

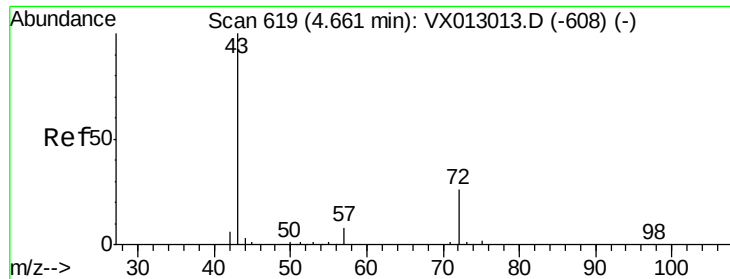
Ion Ratio Lower Upper

63 100

98 4.7 3.9 11.5

100 4.8 2.3 6.9





#25

2-Butanone

Concen: 4.834 ug/l

RT: 4.67 min Scan# 621

Delta R.T. 0.01 min

Lab File: VX013072.D

Acq: 15 Oct 2019 12:58

Instrument :

MSVOA_X

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 43 Resp: 7465

Ion Ratio Lower Upper

43 100

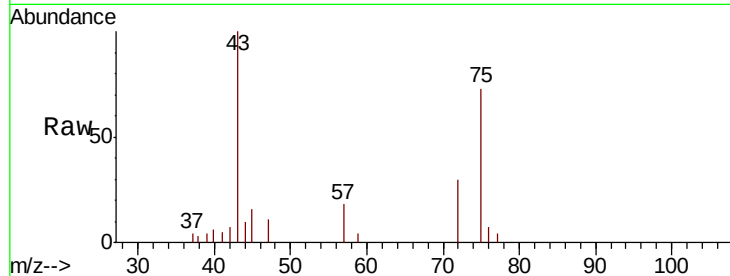
72 29.8 21.0 31.6

Manual Integrations

APPROVED

MMDadoda

10/16/2019 9:57:54 AM



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

2500

2000

1500

1000

500

0

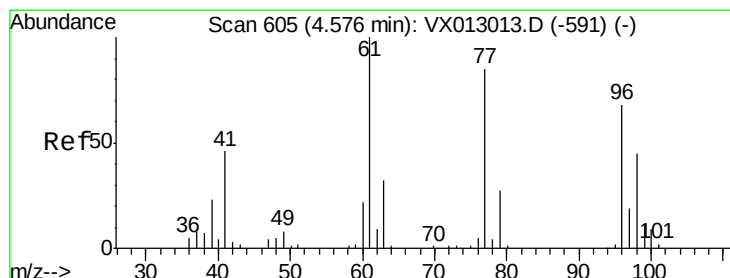
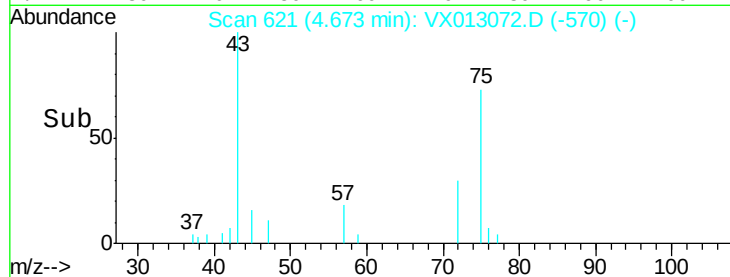
4.60

4.67

4.70

4.80

Time-->



#26

2,2-Dichloropropane

Concen: 1.039 ug/l

RT: 4.57 min Scan# 604

Delta R.T. -0.01 min

Lab File: VX013072.D

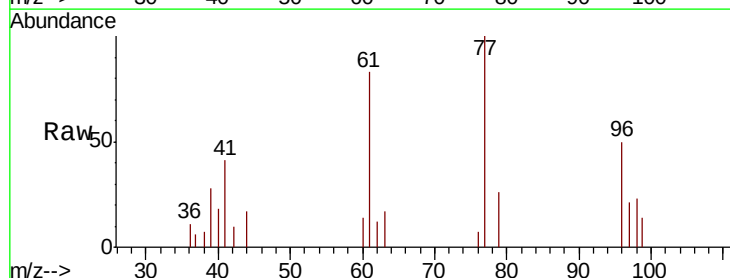
Acq: 15 Oct 2019 12:58

Tgt Ion: 77 Resp: 2863

Ion Ratio Lower Upper

77 100

97 18.0 11.3 33.9



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0

1200

1000

800

600

400

200

0

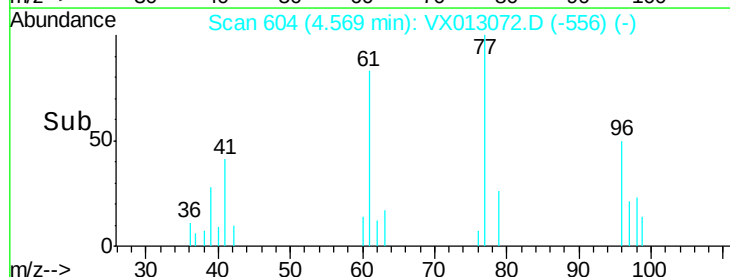
4.50

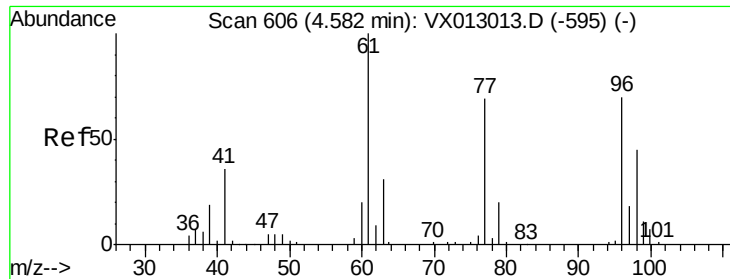
4.57

4.60

4.65

Time-->





#27

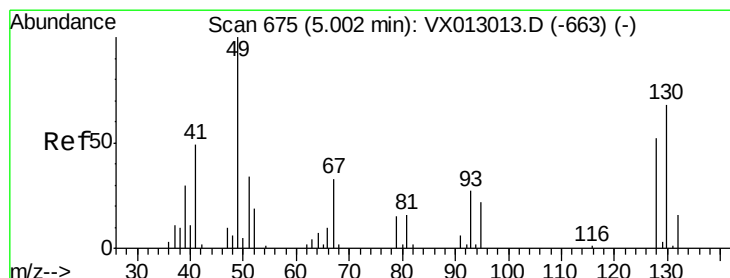
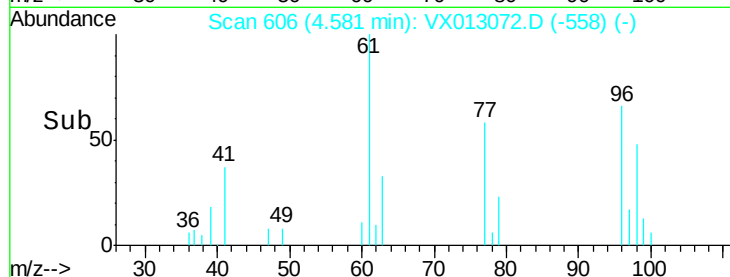
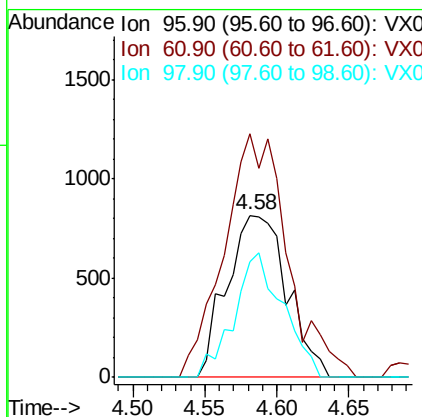
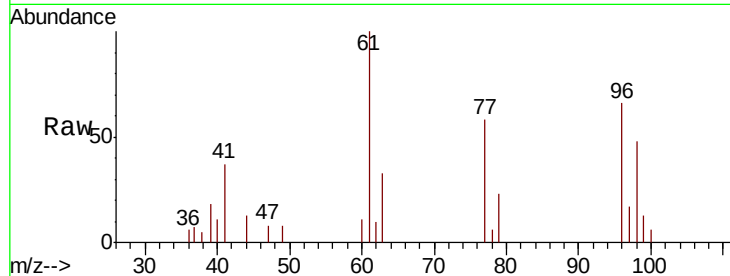
cis-1,2-Dichloroethene
Concen: 1.126 ug/l
RT: 4.58 min Scan# 606
Delta R.T. -0.01 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	158.0	0.0	290.6
98	62.5	0.0	128.8

Manual Integrations
APPROVED

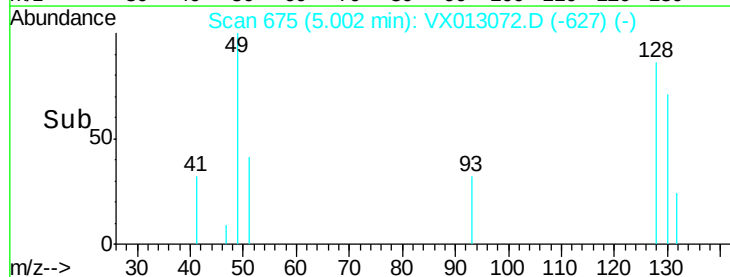
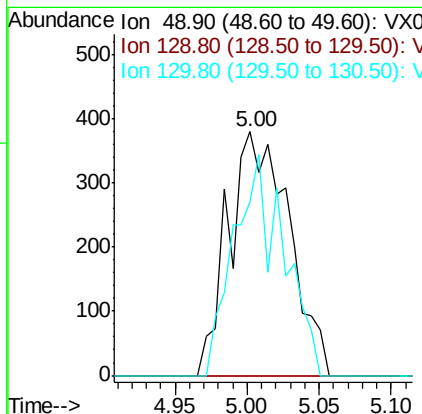
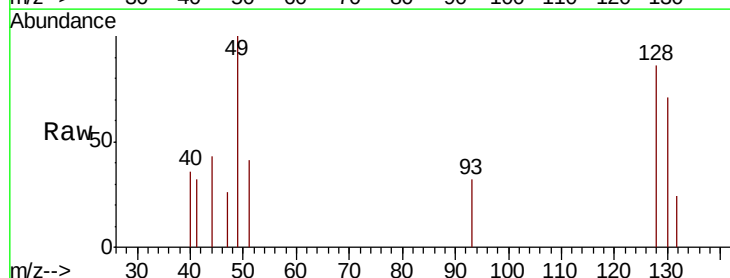
MMDadoda
10/16/2019 9:57:54 AM

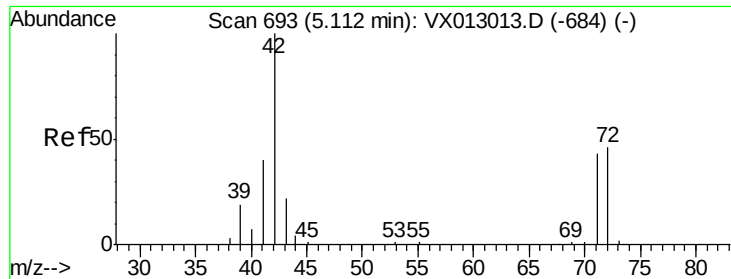


#28

Bromochloromethane
Concen: 1.176 ug/l
RT: 5.00 min Scan# 675
Delta R.T. -0.01 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.2
130	75.0	62.1	93.1





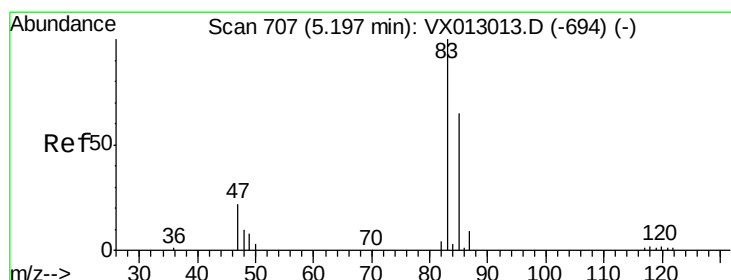
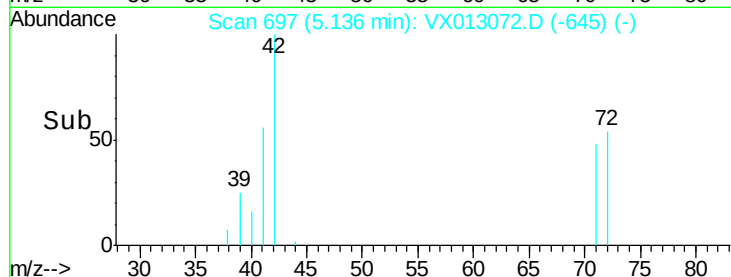
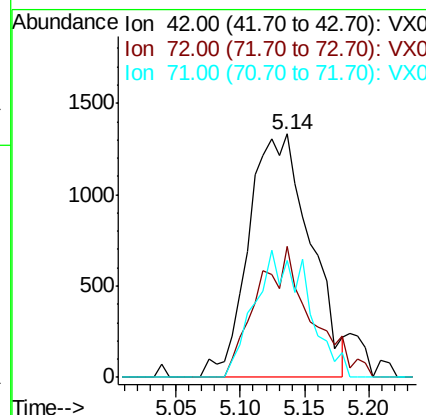
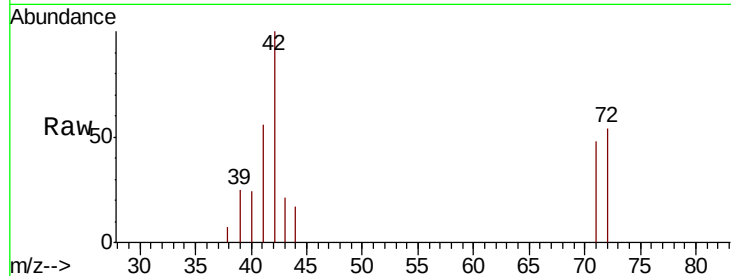
#29
Tetrahydrofuran
Concen: 4.634 ug/l
RT: 5.14 min Scan# 697
Delta R.T. 0.02 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
42	100		
72	47.8	36.9	55.3
71	45.4	33.5	50.3

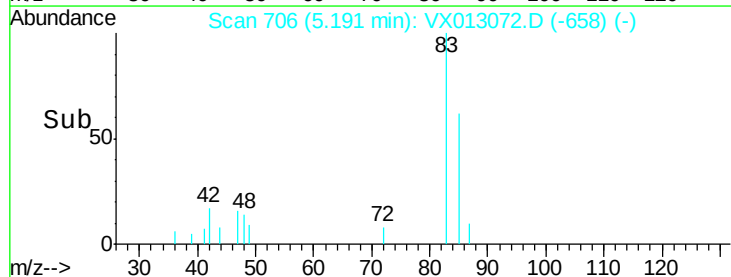
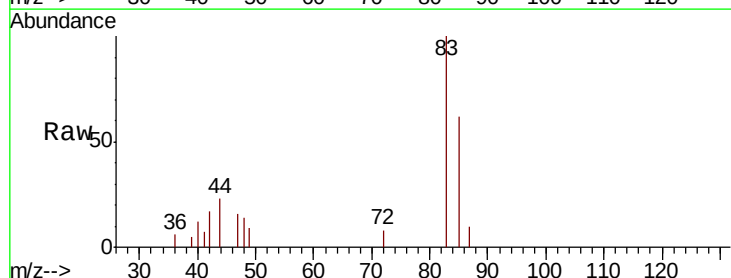
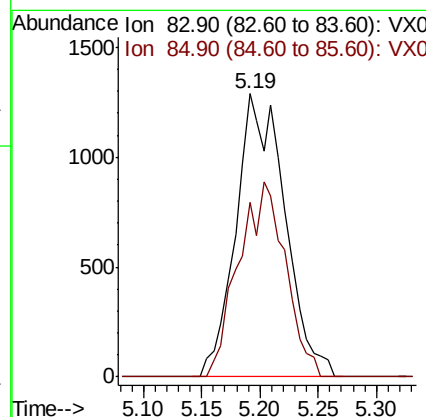
Manual Integrations
APPROVED

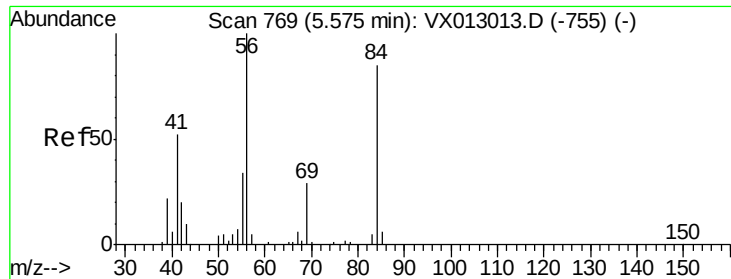
MMDadoda
10/16/2019 9:57:54 AM



#30
Chloroform
Concen: 1.117 ug/l
RT: 5.19 min Scan# 706
Delta R.T. -0.01 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.9	51.5	77.3





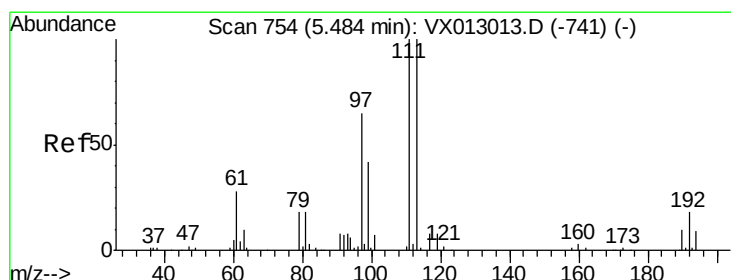
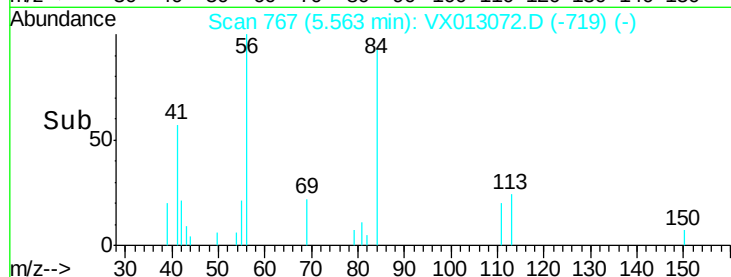
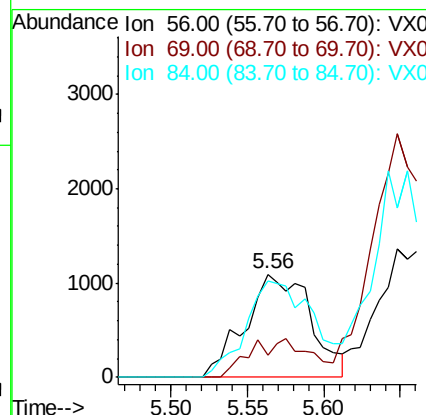
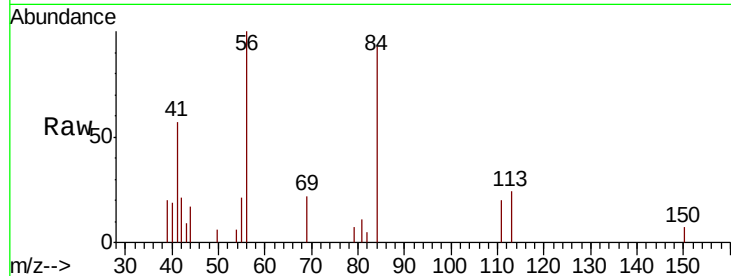
#31
Cyclohexane
Concen: 1.062 ug/l
RT: 5.56 min Scan# 767
Delta R.T. -0.01 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
56	100		
69	21.9	25.2	37.8#
84	93.3	71.3	106.9

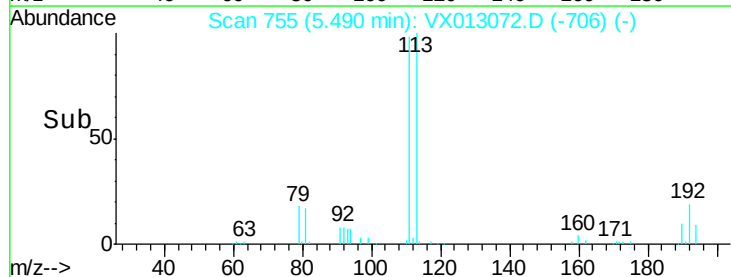
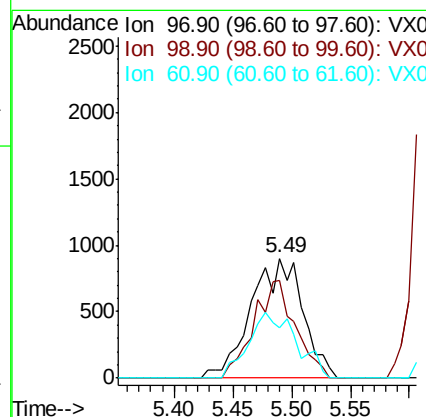
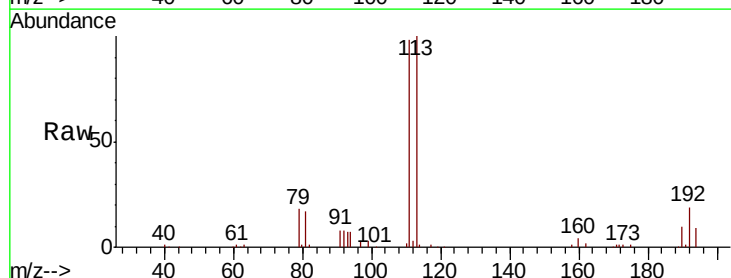
Manual Integrations
APPROVED

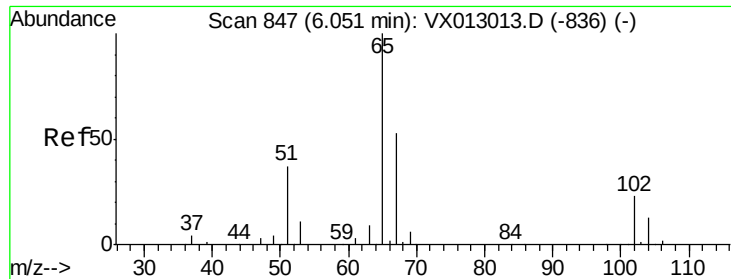
MMDadoda
10/16/2019 9:57:54 AM



#32
1,1,1-Trichloroethane
Concen: 0.964 ug/l m
RT: 5.49 min Scan# 755
Delta R.T. -0.00 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Tgt Ion	Ratio	Lower	Upper
97	100		
99	0.0	52.3	78.5#
61	50.4	35.0	52.4





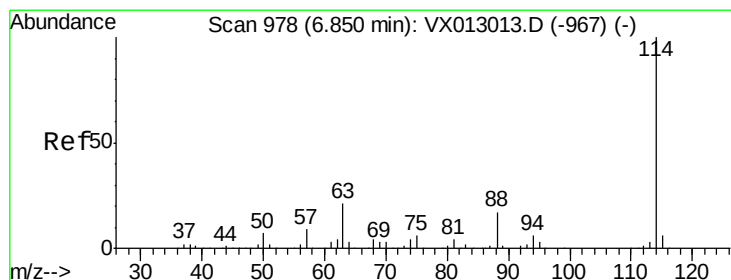
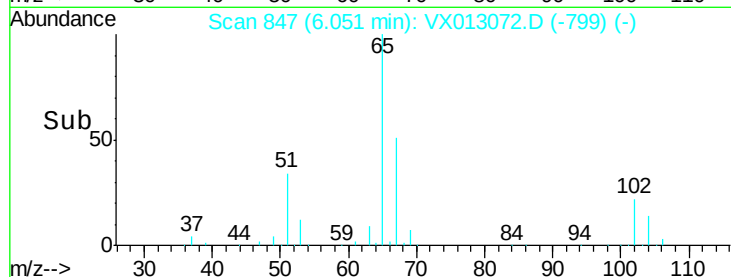
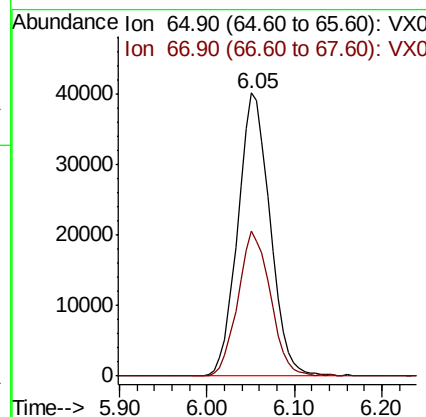
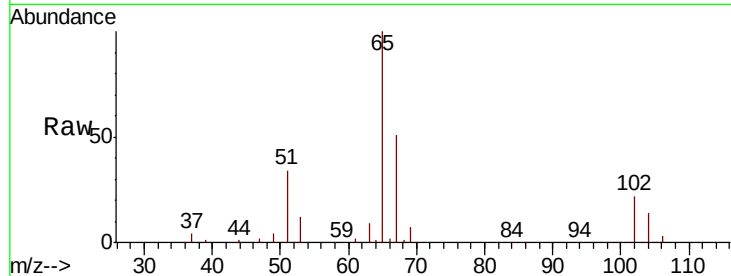
#33
 1,2-Dichloroethane-d4
 Concen: 48.869 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.01 min
 Lab File: VX013072.D
 Acq: 15 Oct 2019 12:58

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
65	100	103191		
67	51.3	0.0	104.4	

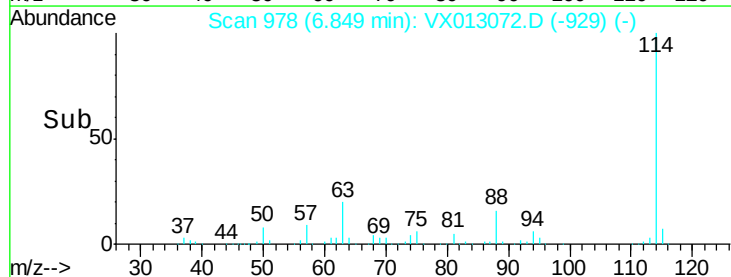
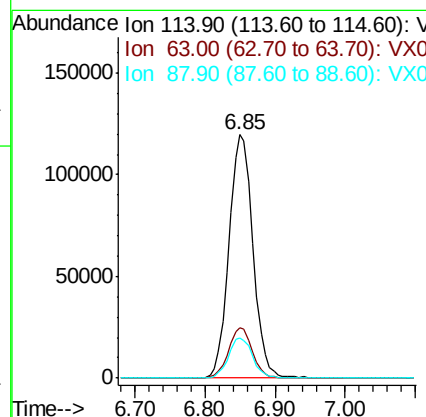
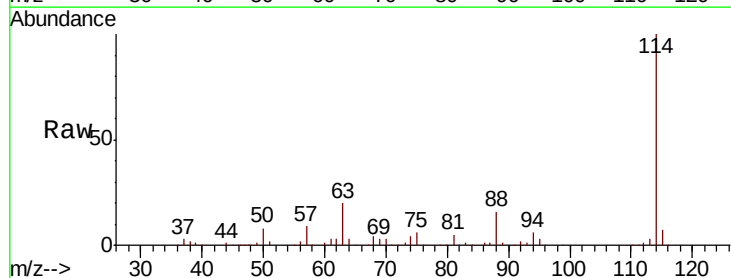
Manual Integrations
 APPROVED

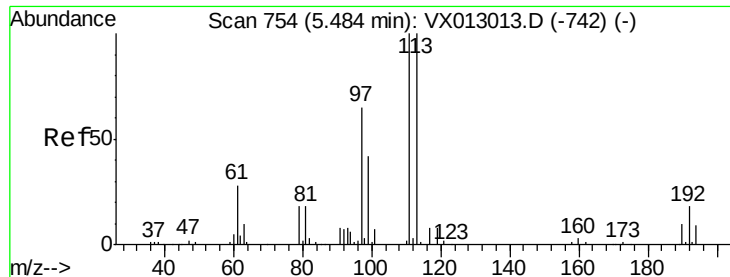
MMDadoda
 10/16/2019 9:57:54 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX013072.D
 Acq: 15 Oct 2019 12:58

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	285028		
63	20.5	0.0	40.8	
88	16.5	0.0	33.8	





#35

Dibromofluoromethane

Concen: 49.018 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013072.D

Acq: 15 Oct 2019 12:58

Instrument :

MSVOA_X

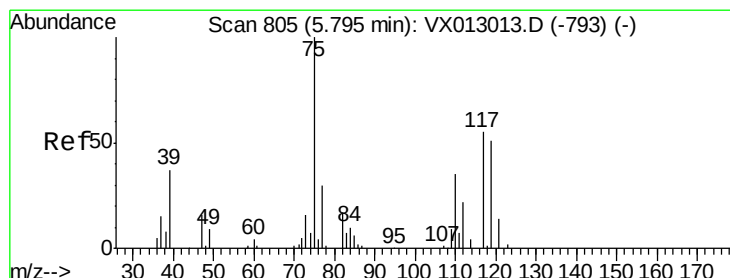
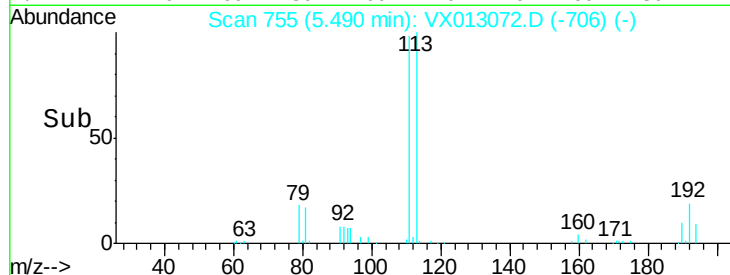
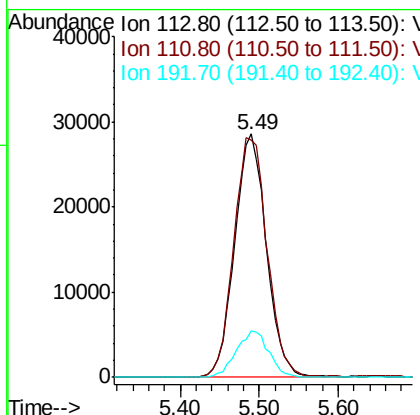
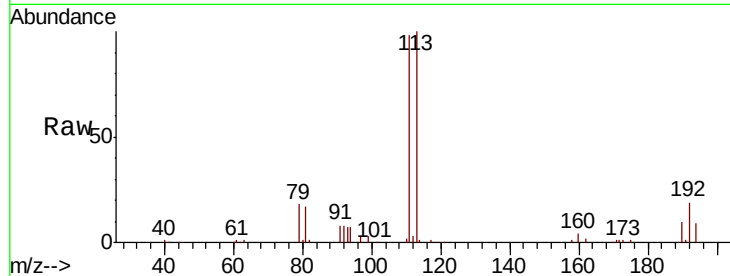
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	113	Resp:	80189
Ion	Ratio	Lower	Upper
113	100		
111	103.4	83.2	124.8
192	19.6	15.4	23.2

Manual Integrations
APPROVED

MMDadoda
10/16/2019 9:57:54 AM



#36

1,1-Dichloropropene

Concen: 1.096 ug/l

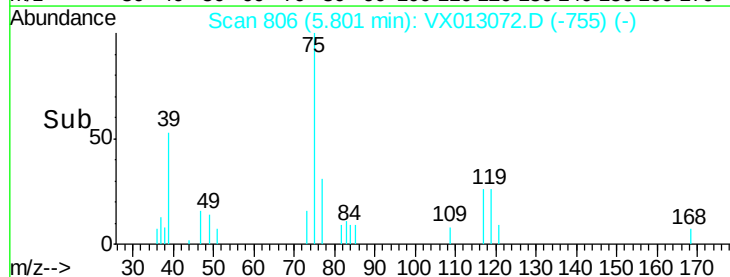
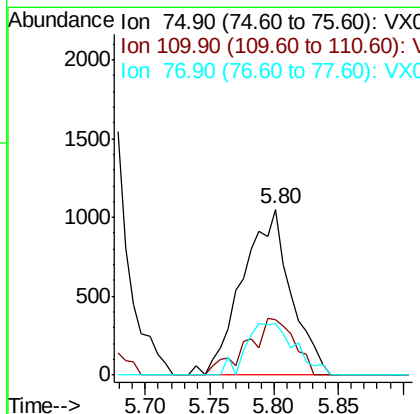
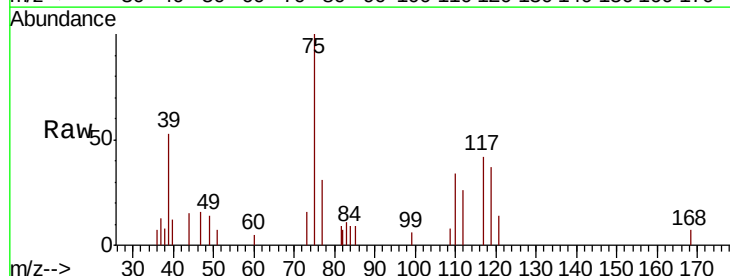
RT: 5.80 min Scan# 806

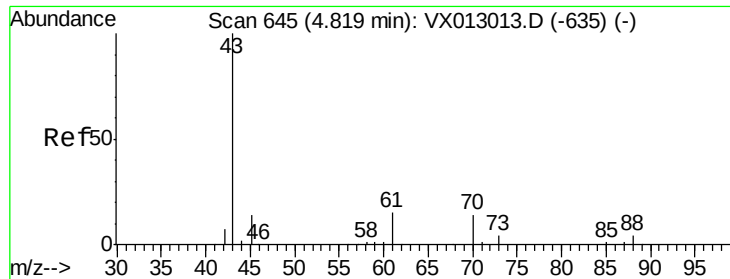
Delta R.T. 0.01 min

Lab File: VX013072.D

Acq: 15 Oct 2019 12:58

Tgt Ion:	75	Resp:	2747
Ion	Ratio	Lower	Upper
75	100		
110	33.6	17.6	52.9
77	31.5	24.4	36.6





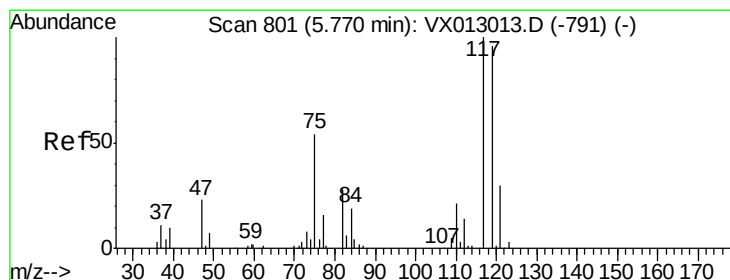
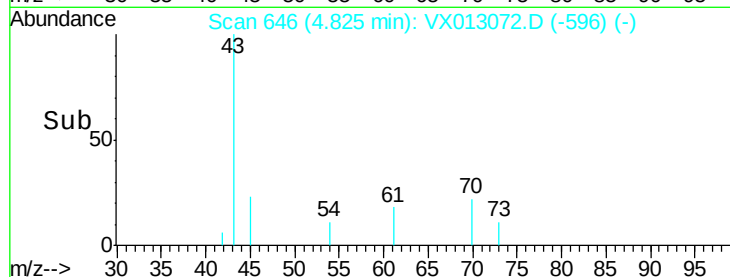
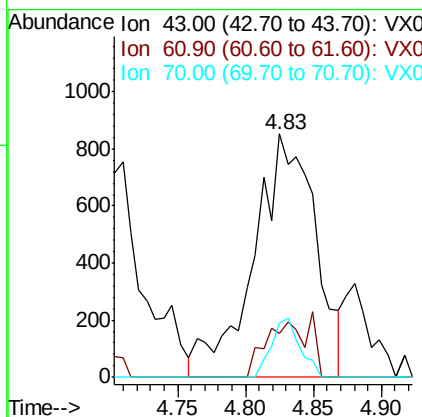
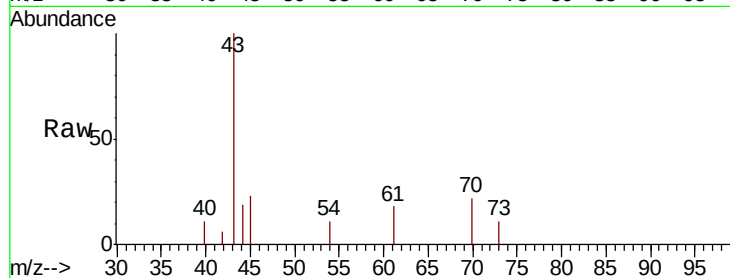
#37
Ethyl Acetate
Concen: 0.958 ug/l
RT: 4.83 min Scan# 646
Delta R.T. 0.01 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.4	17.0#
70	11.2	9.8	14.6

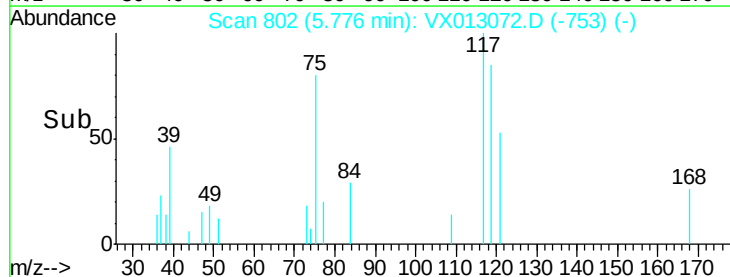
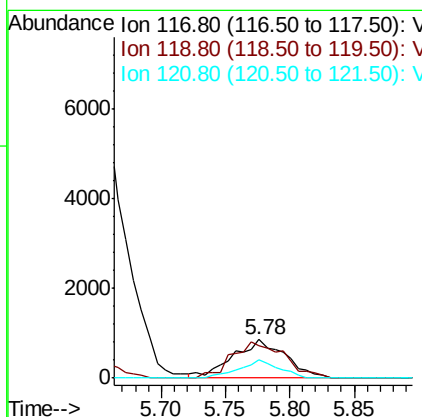
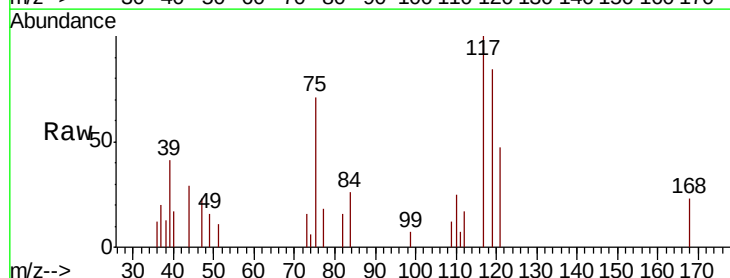
Manual Integrations
APPROVED

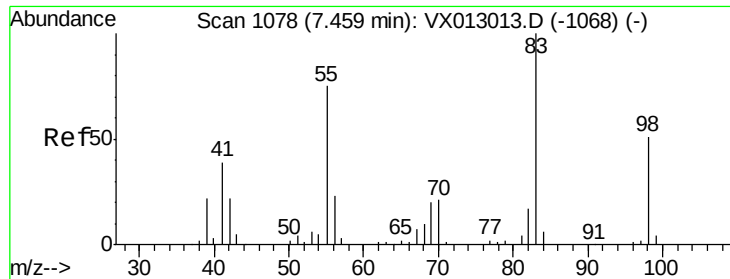
MMDadoda
10/16/2019 9:57:54 AM



#38
Carbon Tetrachloride
Concen: 0.993 ug/l
RT: 5.78 min Scan# 802
Delta R.T. -0.00 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Tgt Ion	Ratio	Lower	Upper
117	100		
119	84.1	74.5	111.7
121	46.9	24.2	36.4#





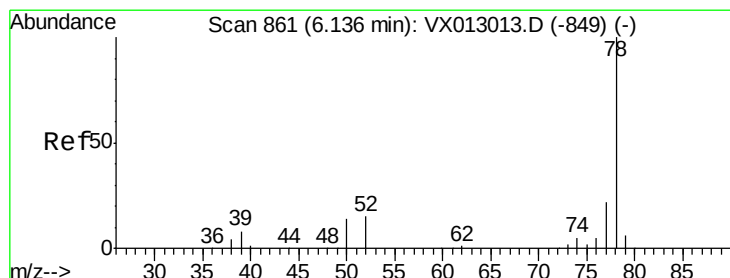
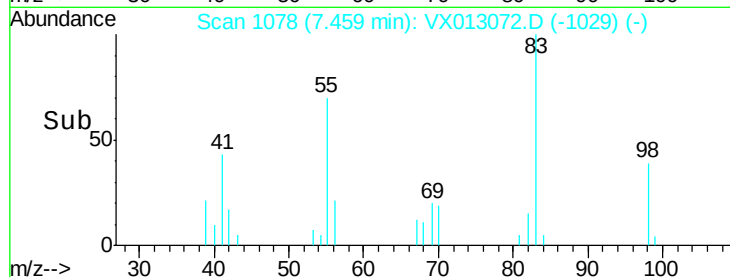
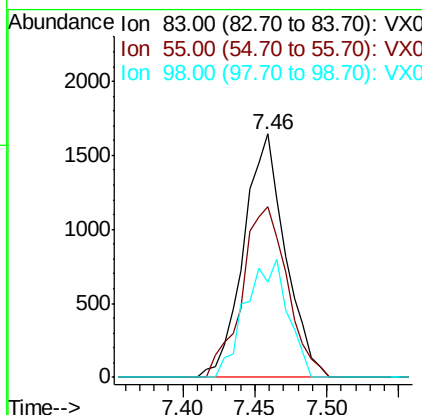
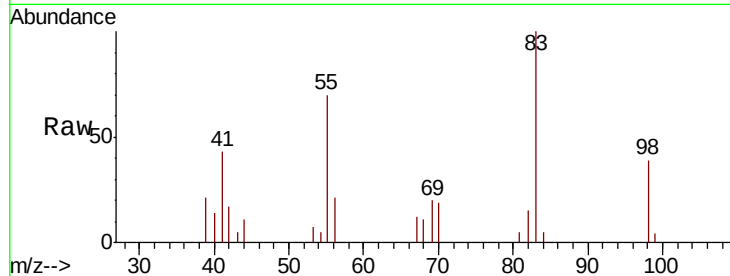
#39
Methylvlcyclohexane
Concen: 1.084 ug/l
RT: 7.46 min Scan# 1078
Delta R.T. -0.00 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
83	100		
55	69.8	60.2	90.4
98	39.3	38.5	57.7

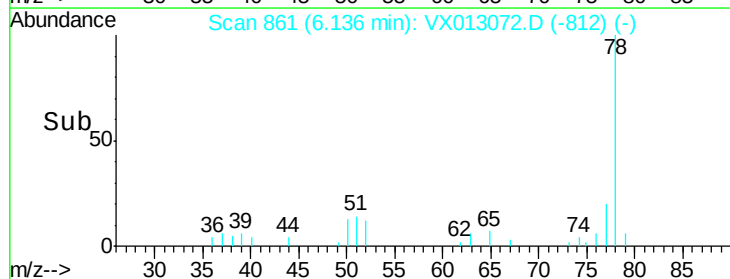
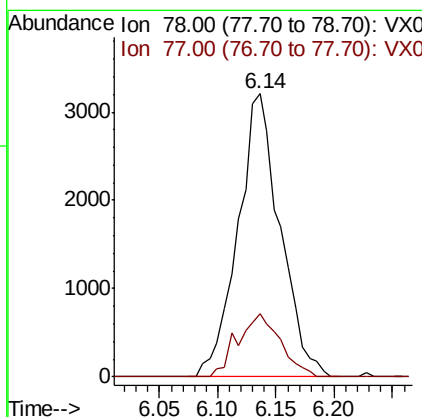
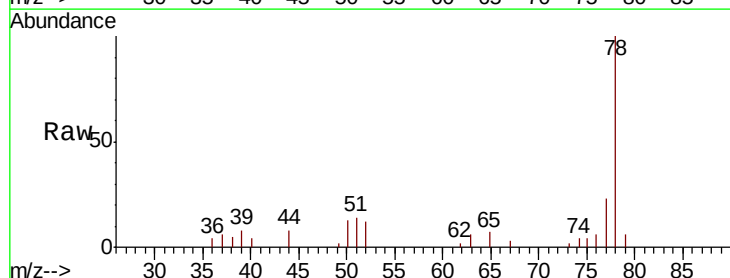
Manual Integrations
APPROVED

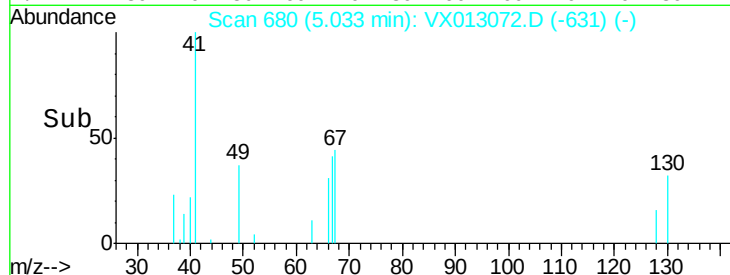
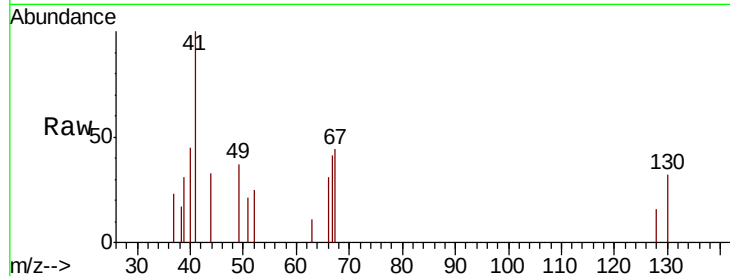
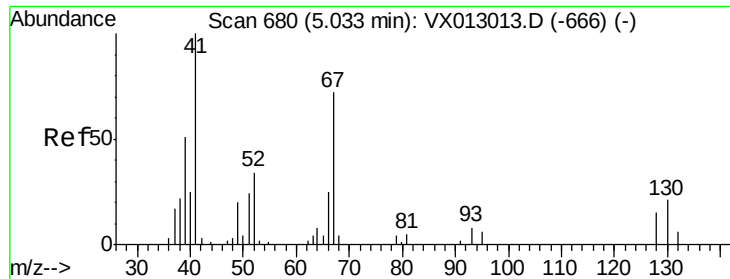
MMDadoda
10/16/2019 9:57:54 AM



#40
Benzene
Concen: 1.091 ug/l
RT: 6.14 min Scan# 861
Delta R.T. -0.00 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.5	19.0	28.4





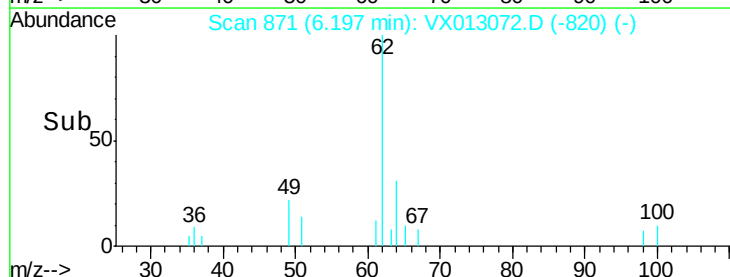
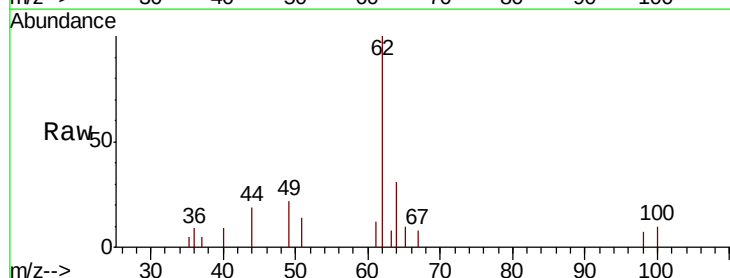
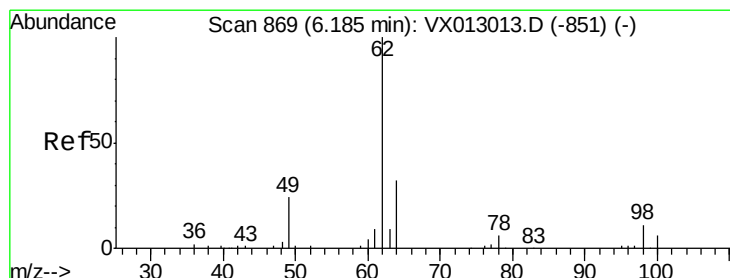
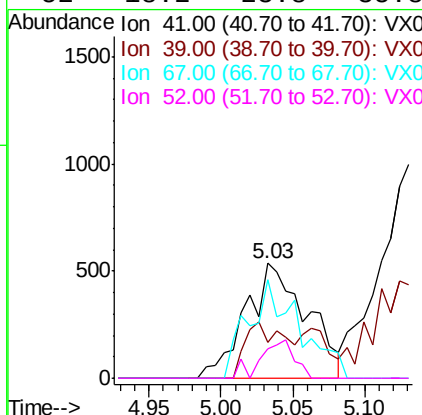
#41
Methacrylonitrile
Concen: 1.027 ug/l
RT: 5.03 min Scan# 680
Delta R.T. -0.00 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	31.2	44.0	66.0#	
67	71.7	58.5	87.7	
52	18.2	23.8	35.8#	

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

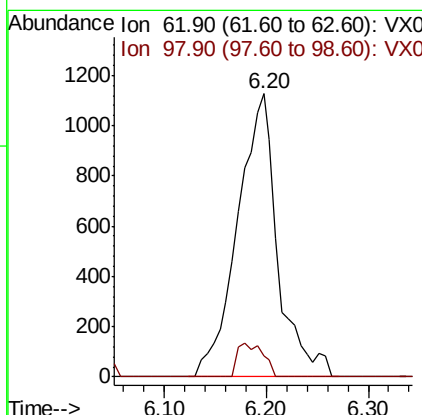
Manual Integrations
APPROVED

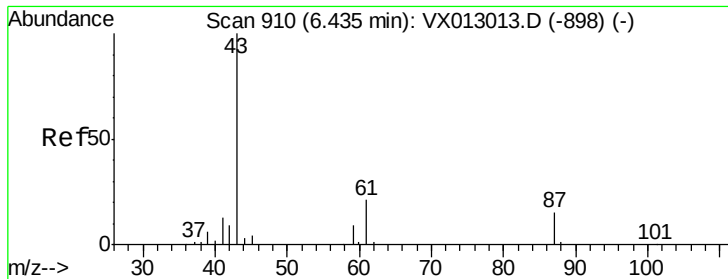
MMDadoda
10/16/2019 9:57:54 AM



#42
1,2-Dichloroethane
Concen: 1.162 ug/l
RT: 6.20 min Scan# 871
Delta R.T. 0.01 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	7.6	0.0	20.4	





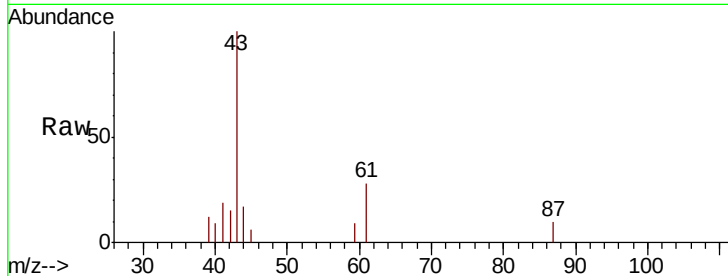
#43
Isopropyl Acetate
Concen: 0.894 ug/l
RT: 6.43 min Scan# 910
Delta R.T. -0.00 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

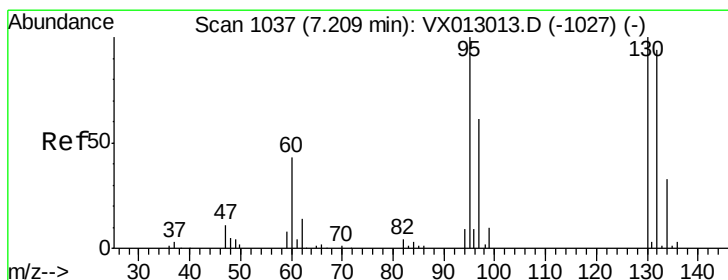
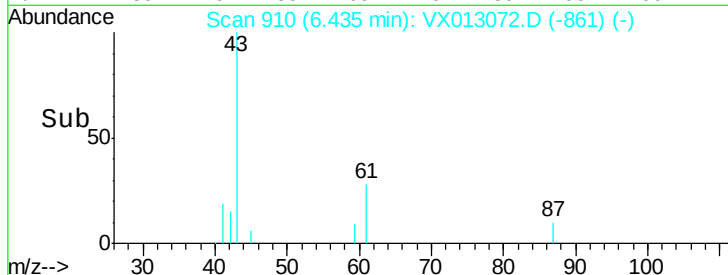
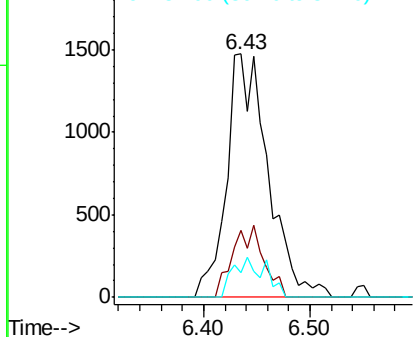
Tot Ion:	43	Resp:	4019
Ion	Ratio	Lower	Upper
43	100		
61	22.2	16.6	24.8
87	12.6	11.0	16.6

Manual Integrations
APPROVED

MMDadoda
10/16/2019 9:57:54 AM

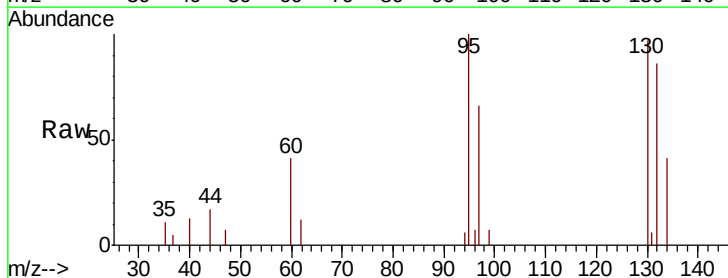


Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0

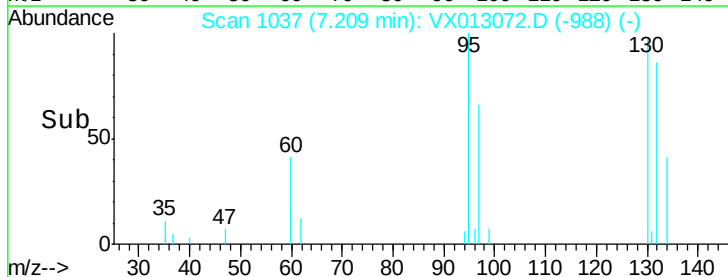
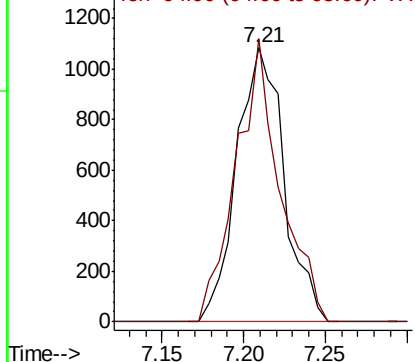


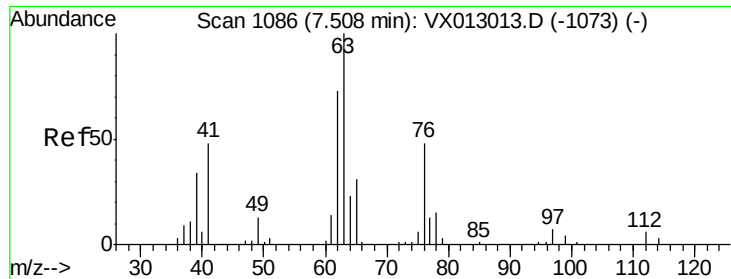
#44
Trichloroethene
Concen: 1.065 ug/l
RT: 7.21 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Tgt Ion:	130	Resp:	2185
Ion	Ratio	Lower	Upper
130	100		
95	103.3	0.0	189.2



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VX0





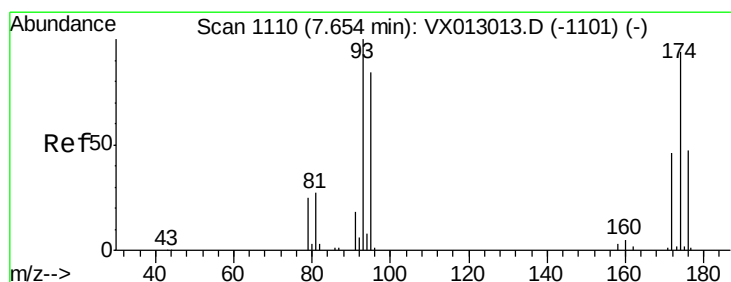
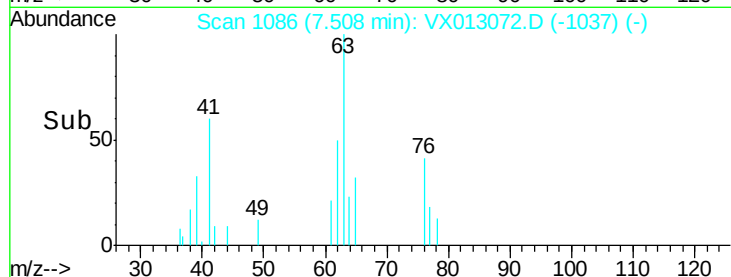
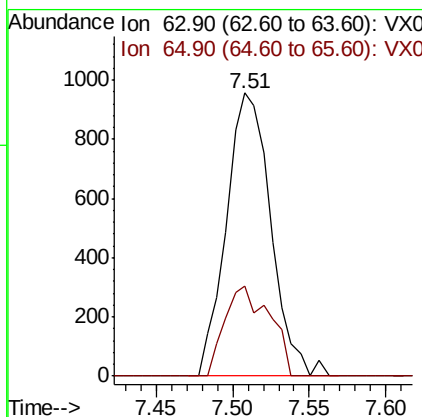
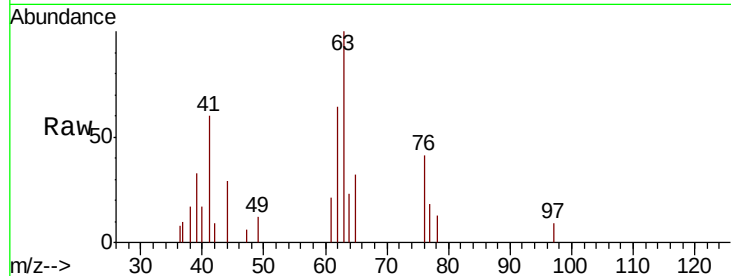
#45
 1,2-Dichloropropane
 Concen: 1.020 ug/l
 RT: 7.51 min Scan# 1086
 Delta R.T. -0.00 min
 Lab File: VX013072.D
 Acq: 15 Oct 2019 12:58

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion: 63 Resp: 1925
 Ion Ratio Lower Upper
 63 100
 65 31.6 24.6 37.0

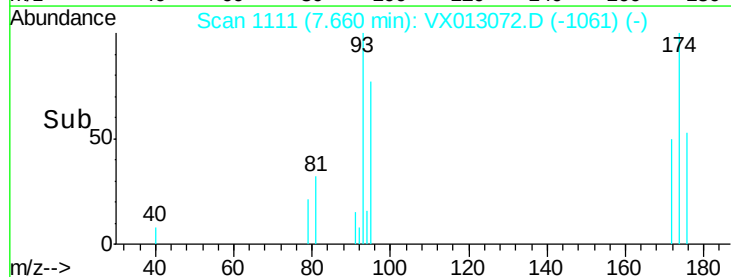
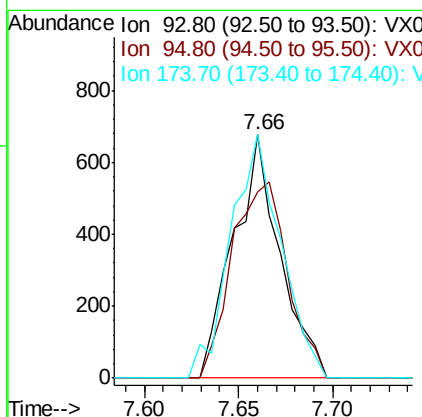
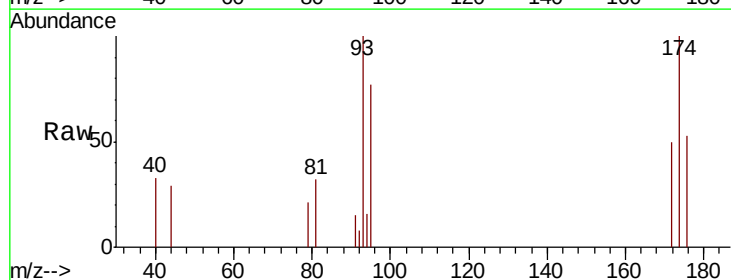
Manual Integrations
 APPROVED

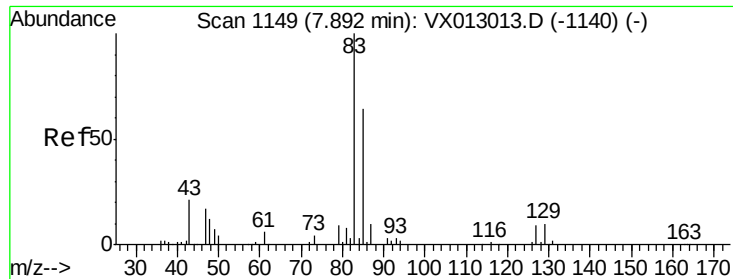
MMDadoda
 10/16/2019 9:57:54 AM



#46
 Dibromomethane
 Concen: 0.923 ug/l
 RT: 7.66 min Scan# 1111
 Delta R.T. 0.01 min
 Lab File: VX013072.D
 Acq: 15 Oct 2019 12:58

Tgt Ion: 93 Resp: 1160
 Ion Ratio Lower Upper
 93 100
 95 96.3 66.3 99.5
 174 108.4 77.8 116.6





#47

Bromodichloromethane

Concen: 0.922 ug/l

RT: 7.89 min Scan# 1149

Delta R.T. -0.00 min

Lab File: VX013072.D

Acq: 15 Oct 2019 12:58

Instrument :

MSVOA_X

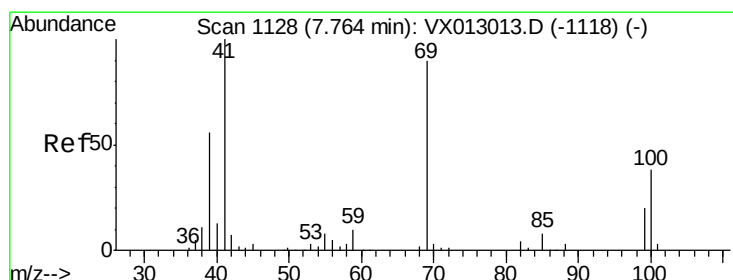
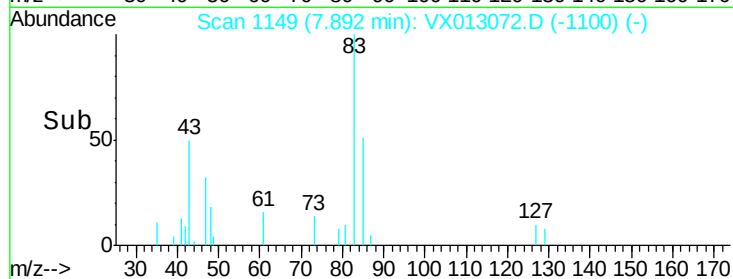
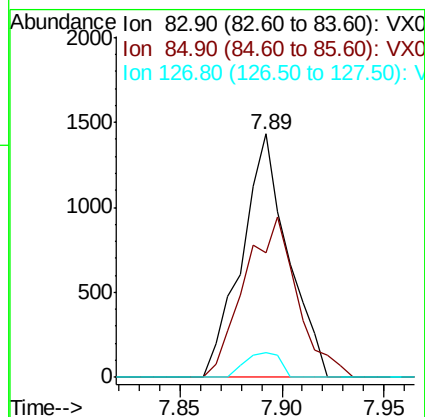
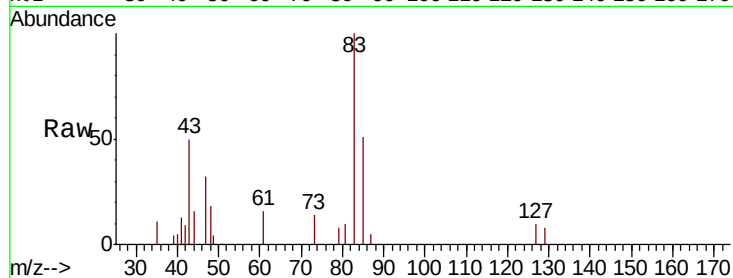
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	83	Resp:	2261
Ion	Ratio	Lower	Upper
83	100		
85	51.4	52.4	78.6#
127	9.9	6.6	10.0

Manual Integrations
APPROVED

MMDadoda
10/16/2019 9:57:54 AM



#48

Methyl methacrylate

Concen: 0.929 ug/l

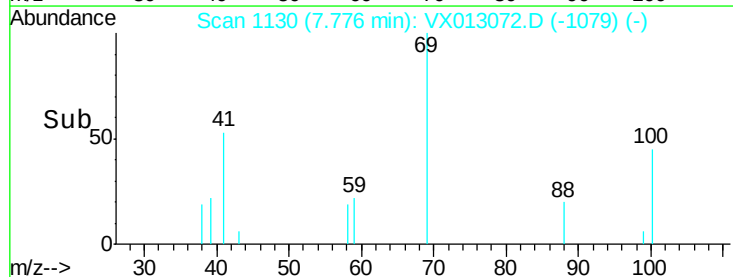
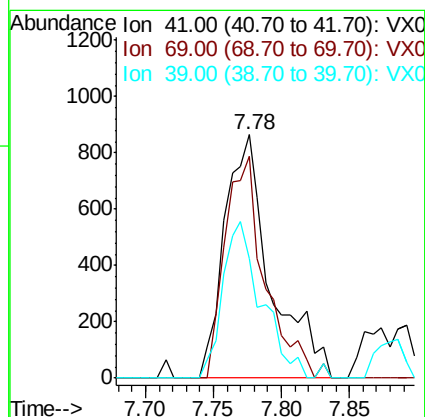
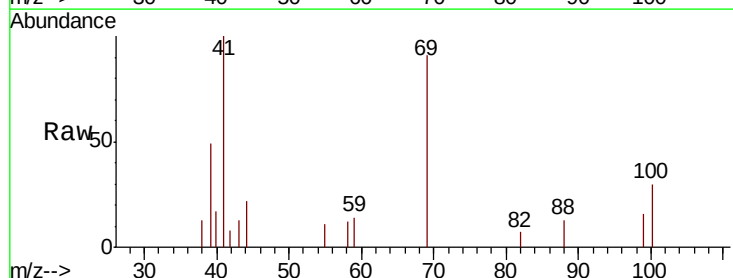
RT: 7.78 min Scan# 1130

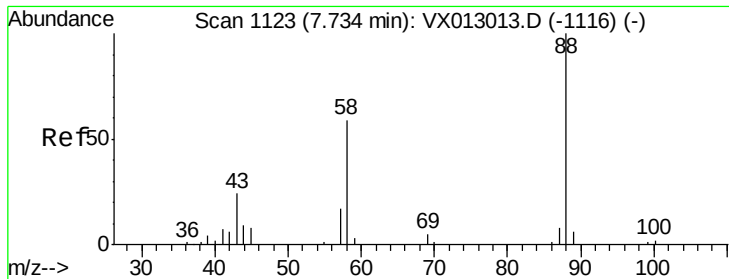
Delta R.T. 0.01 min

Lab File: VX013072.D

Acq: 15 Oct 2019 12:58

Tgt Ion:	41	Resp:	2037
Ion	Ratio	Lower	Upper
41	100		
69	79.2	68.7	103.1
39	54.2	44.3	66.5





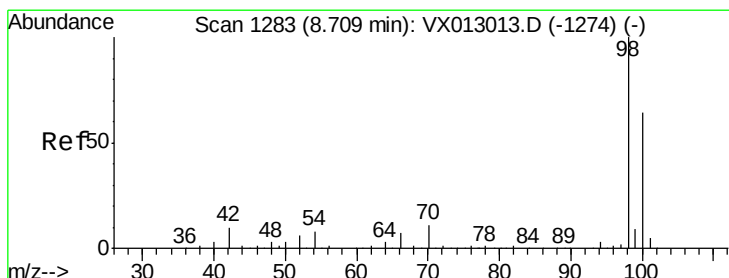
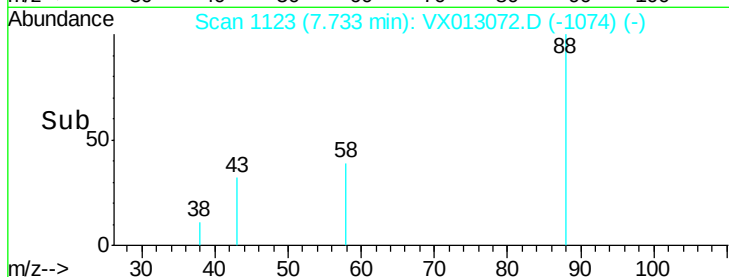
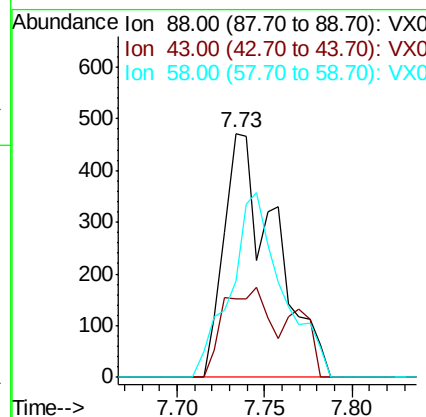
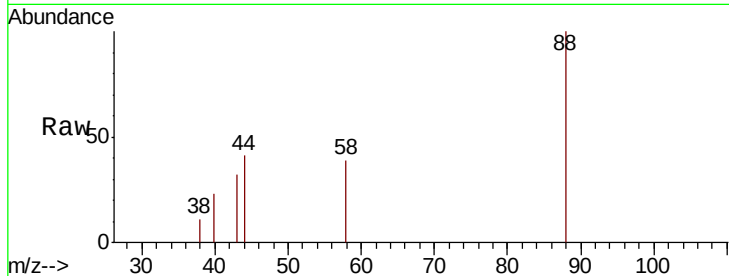
#49
1,4-Dioxane
Concen: 18.287 ug/l
RT: 7.73 min Scan# 1123
Delta R.T. 0.00 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
88	100		
43	33.0	25.0	37.6
58	76.4	55.4	83.2

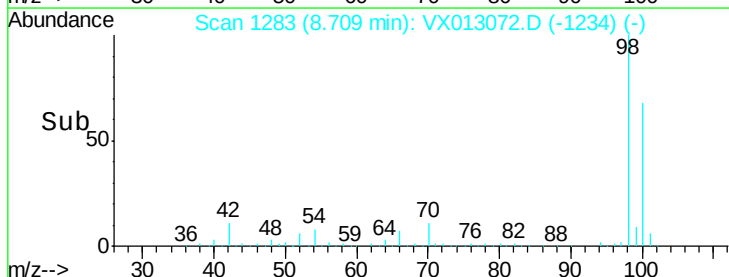
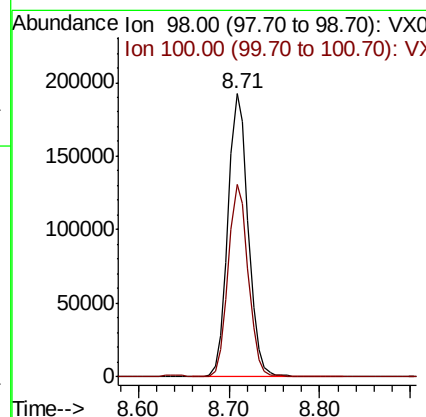
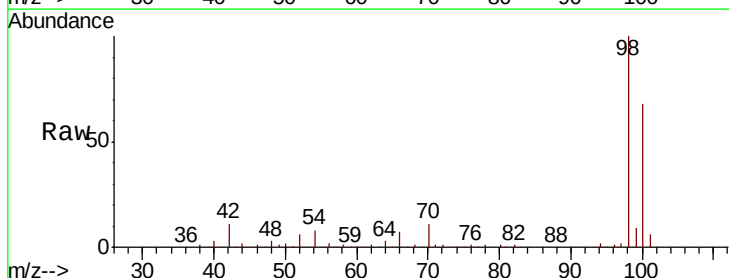
Manual Integrations
APPROVED

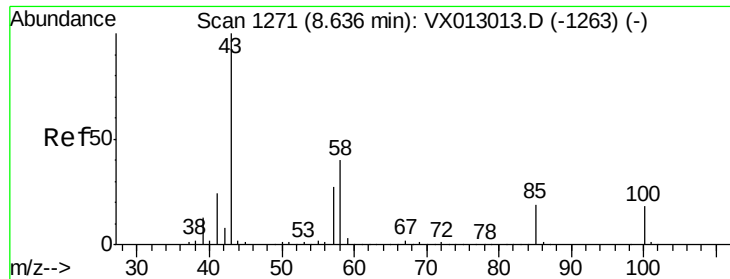
MMDadoda
10/16/2019 9:57:54 AM



#50
Toluene-d8
Concen: 47.090 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Tgt Ion	Ratio	Lower	Upper
98	100		
100	67.0	53.4	80.2





#51

4-Methyl-2-Pentanone

Concen: 4.549 ug/l

RT: 8.64 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VX013072.D

Acq: 15 Oct 2019 12:58

Instrument :

MSVOA_X

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 43 Resp: 12755

Ion Ratio Lower Upper

43 100

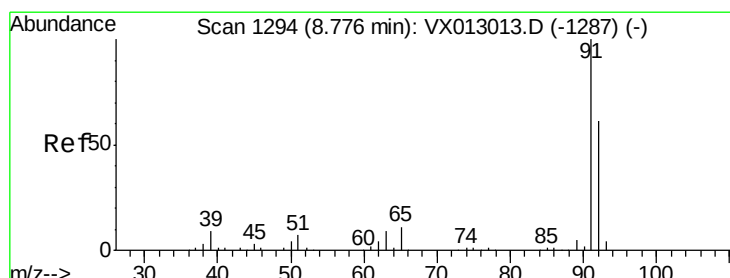
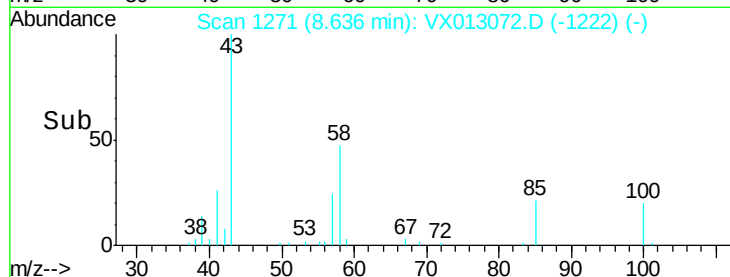
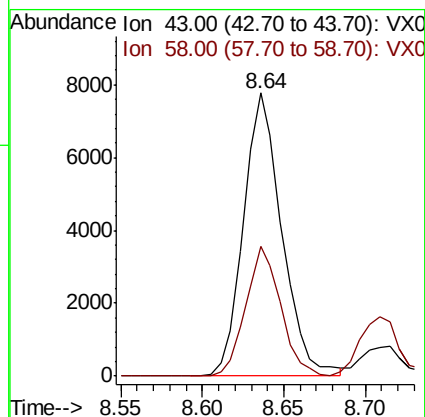
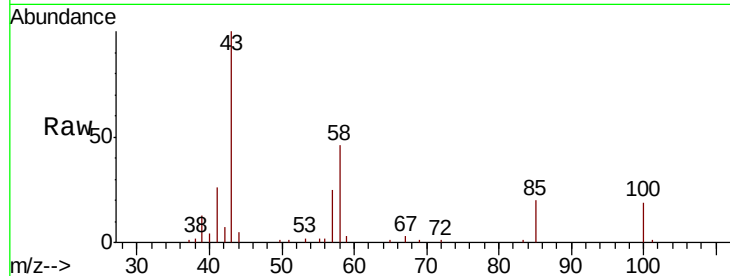
58 41.7 32.4 48.6

Manual Integrations

APPROVED

MMDadoda

10/16/2019 9:57:54 AM



#52

Toluene

Concen: 1.064 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. -0.00 min

Lab File: VX013072.D

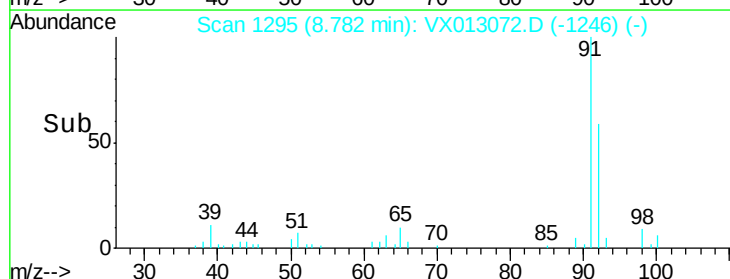
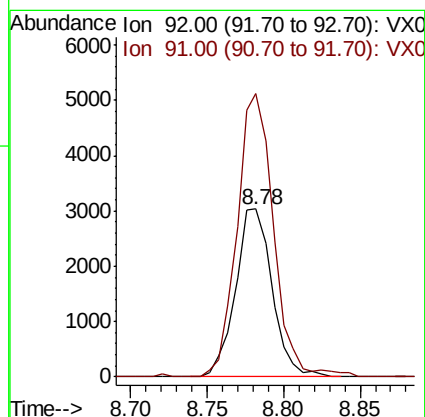
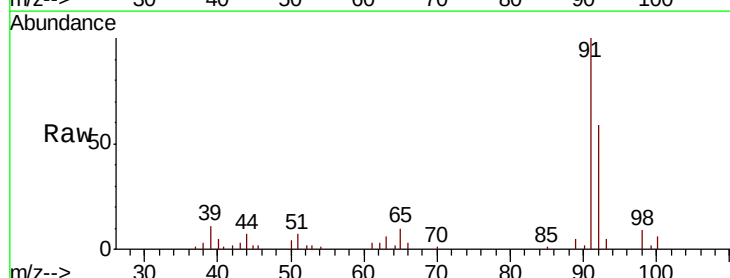
Acq: 15 Oct 2019 12:58

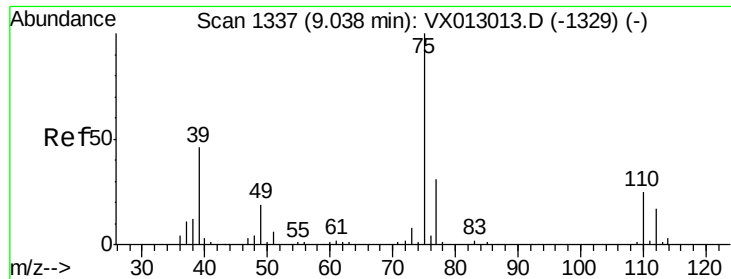
Tgt Ion: 92 Resp: 5039

Ion Ratio Lower Upper

92 100

91 168.2 135.9 203.9





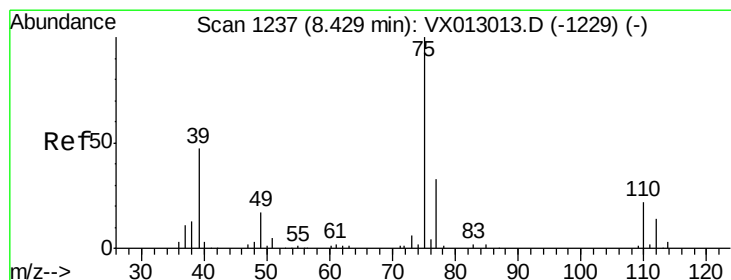
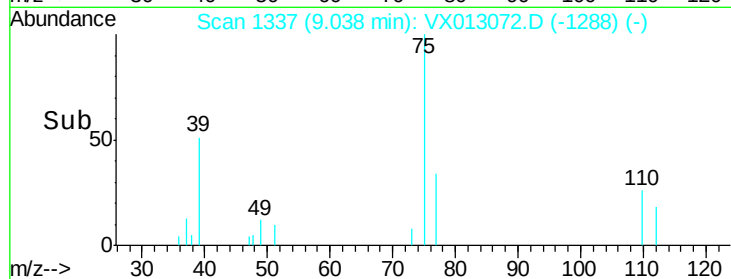
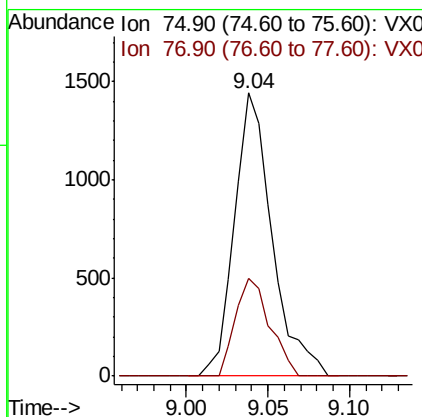
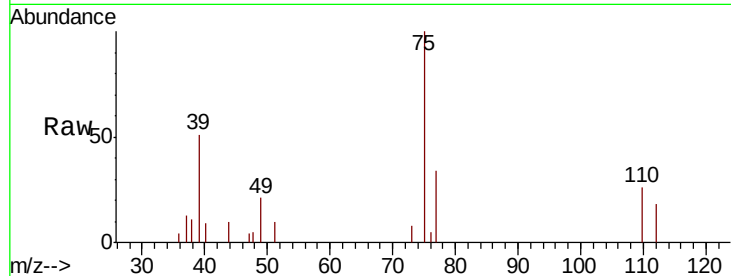
#53
t-1,3-Dichloropropene
Concen: 0.855 ug/l
RT: 9.04 min Scan# 1337
Delta R.T. -0.00 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion: 75 Resp: 2322
Ion Ratio Lower Upper
75 100
77 34.3 25.8 38.6

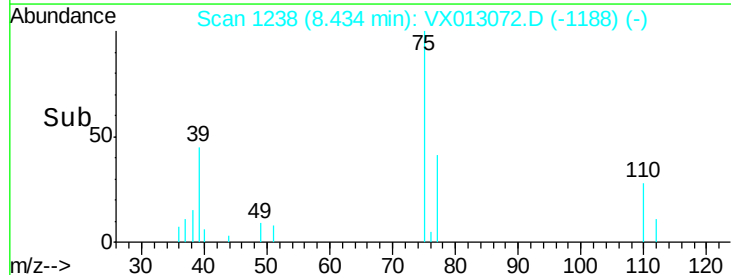
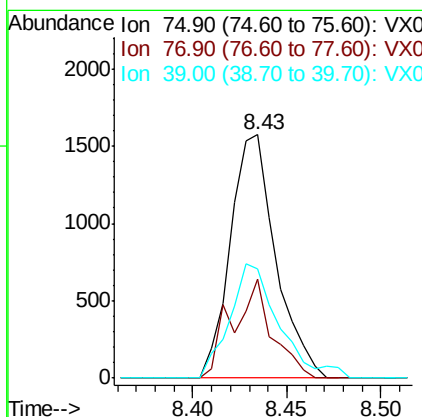
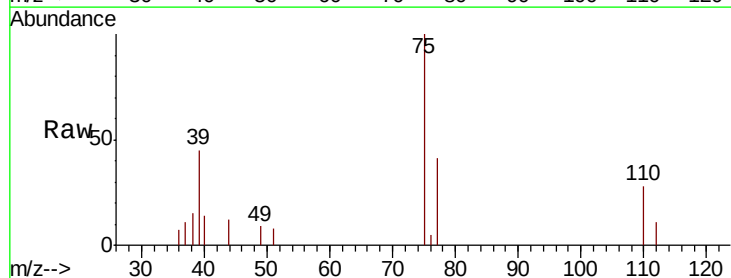
Manual Integrations
APPROVED

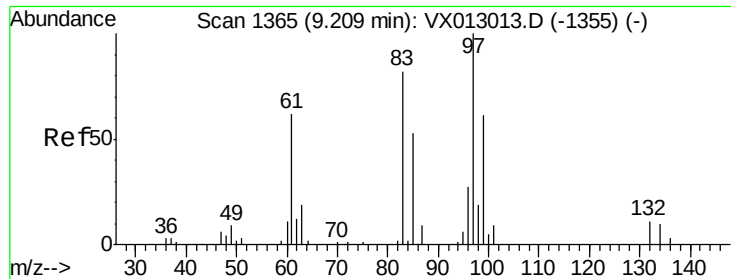
MMDadoda
10/16/2019 9:57:54 AM



#54
cis-1,3-Dichloropropene
Concen: 0.870 ug/l
RT: 8.43 min Scan# 1238
Delta R.T. 0.01 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Tgt Ion: 75 Resp: 2625
Ion Ratio Lower Upper
75 100
77 40.8 25.8 38.8#
39 44.9 38.2 57.2





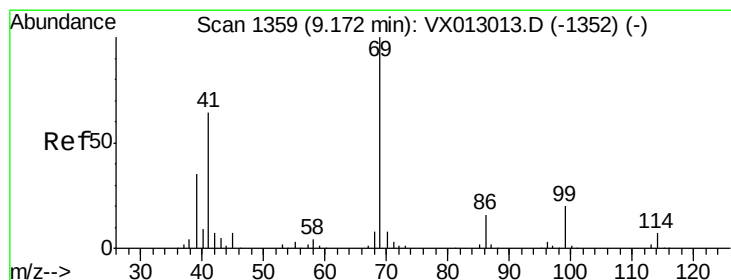
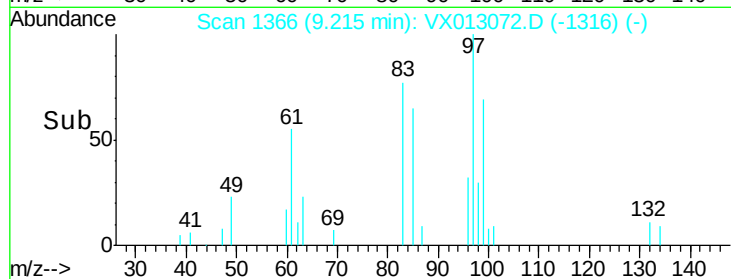
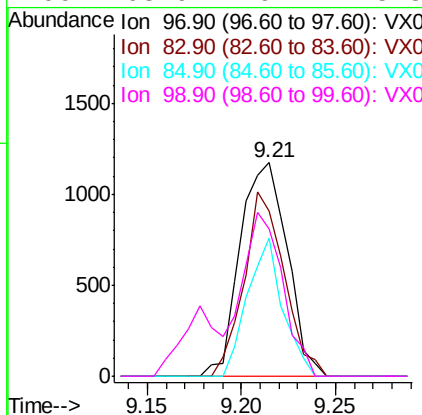
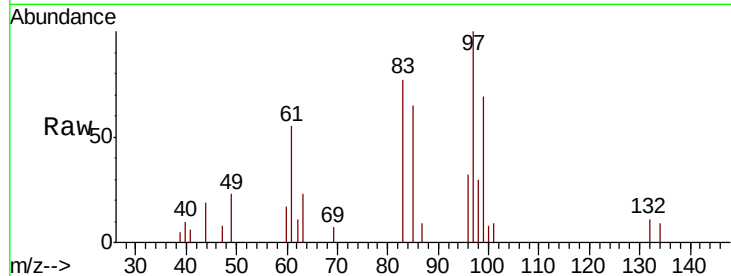
#55
 1,1,2-Trichloroethane
 Concen: 1.085 ug/l
 RT: 9.21 min Scan# 1366
 Delta R.T. 0.01 min
 Lab File: VX013072.D
 Acq: 15 Oct 2019 12:58

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion:	97	Resp:	2033
Ion	Ratio	Lower	Upper
97	100		
83	77.3	66.5	99.7
85	64.7	43.1	64.7
99	68.9	49.2	73.8

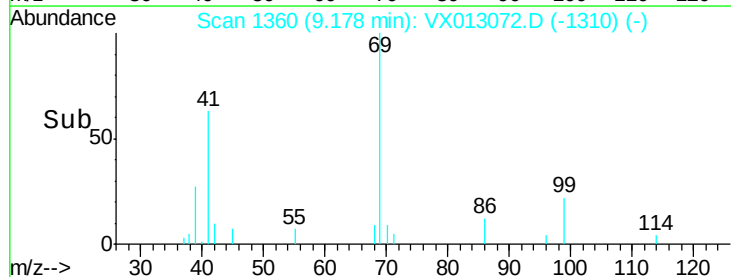
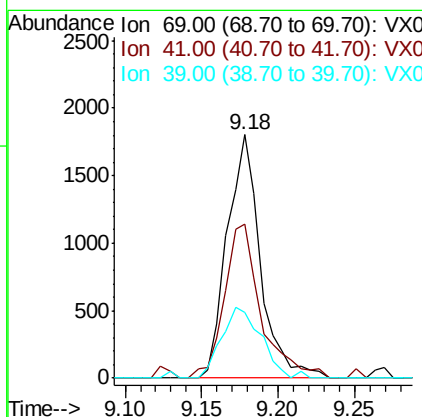
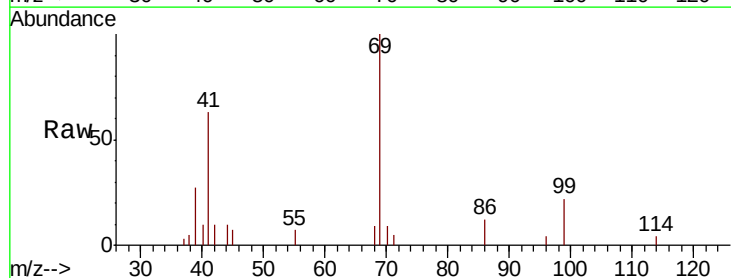
Manual Integrations
 APPROVED

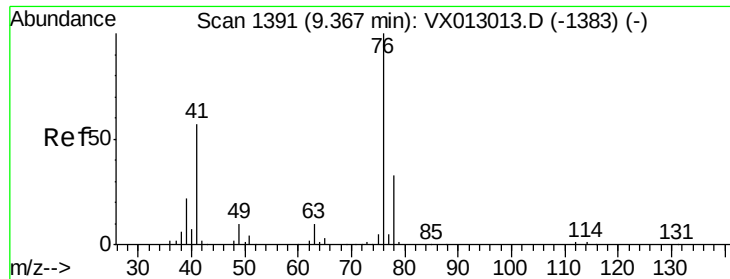
MMDadoda
 10/16/2019 9:57:54 AM



#56
 Ethyl methacrylate
 Concen: 0.897 ug/l
 RT: 9.18 min Scan# 1360
 Delta R.T. 0.01 min
 Lab File: VX013072.D
 Acq: 15 Oct 2019 12:58

Tgt Ion:	69	Resp:	2722
Ion	Ratio	Lower	Upper
69	100		
41	69.2	52.1	78.1
39	34.7	27.8	41.8





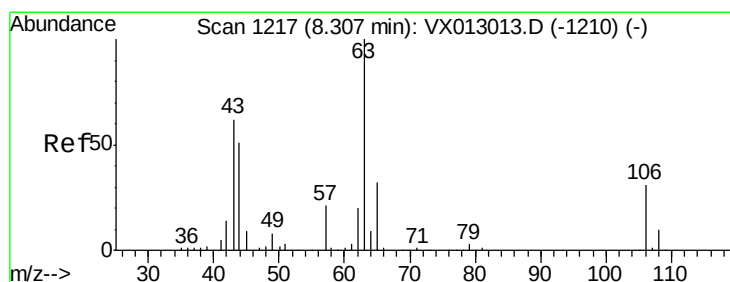
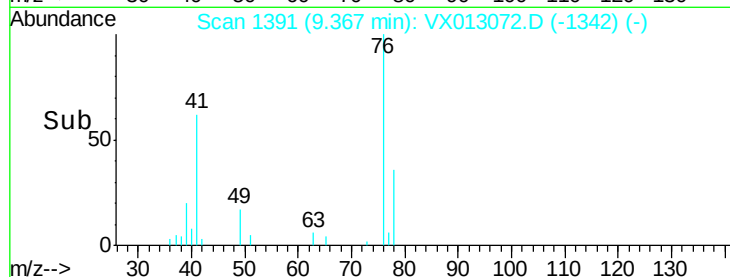
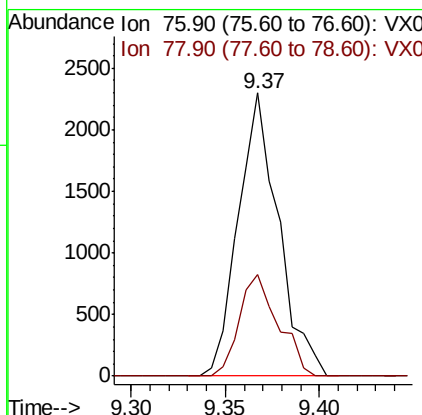
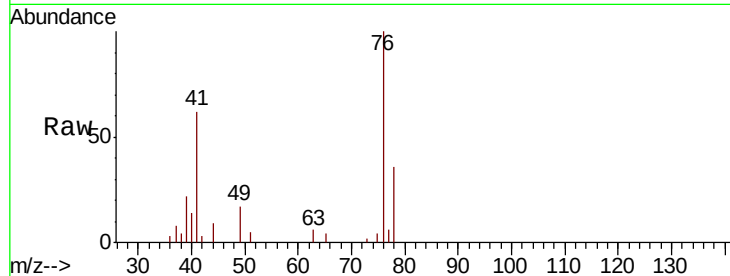
#57
 1,3-Dichloropropane
 Concen: 1.049 ug/l
 RT: 9.37 min Scan# 1391
 Delta R.T. -0.00 min
 Lab File: VX013072.D
 Acq: 15 Oct 2019 12:58

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion: 76 Resp: 3401
 Ion Ratio Lower Upper
 76 100
 78 34.8 26.1 39.1

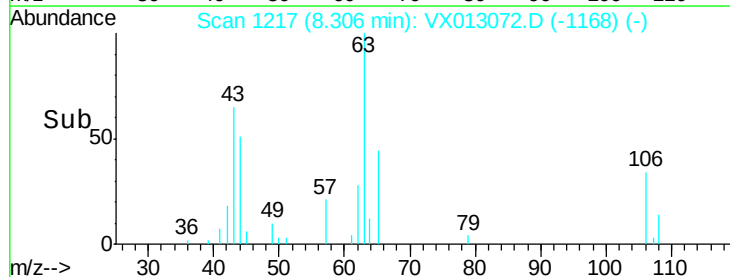
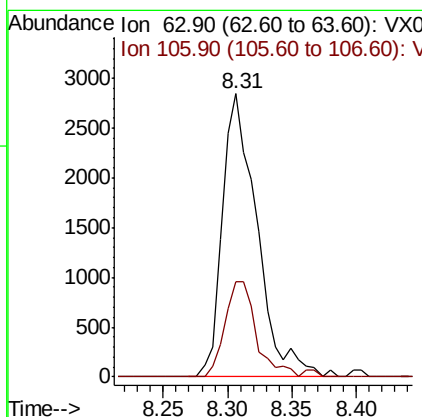
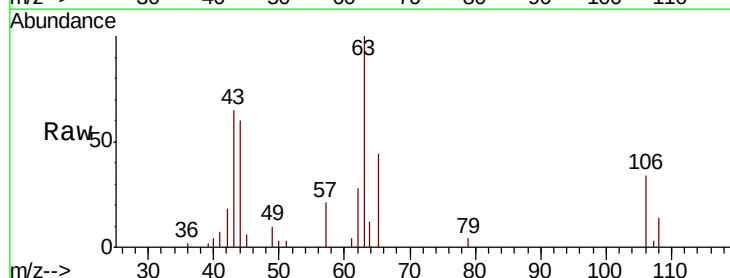
Manual Integrations
 APPROVED

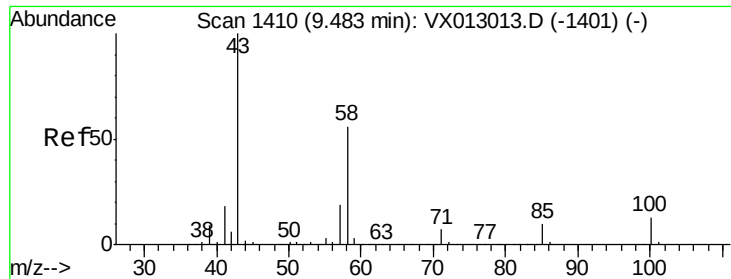
MMDadoda
 10/16/2019 9:57:54 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 3.899 ug/l
 RT: 8.31 min Scan# 1217
 Delta R.T. -0.00 min
 Lab File: VX013072.D
 Acq: 15 Oct 2019 12:58

Tgt Ion: 63 Resp: 5368
 Ion Ratio Lower Upper
 63 100
 106 30.4 23.8 35.8





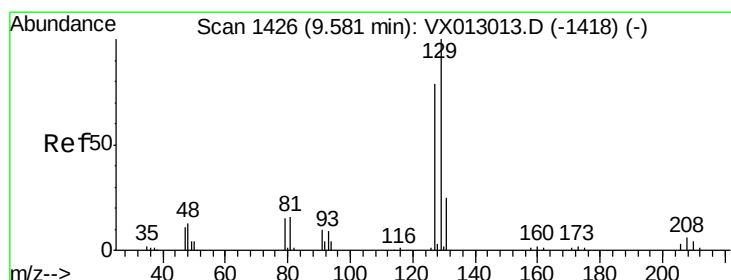
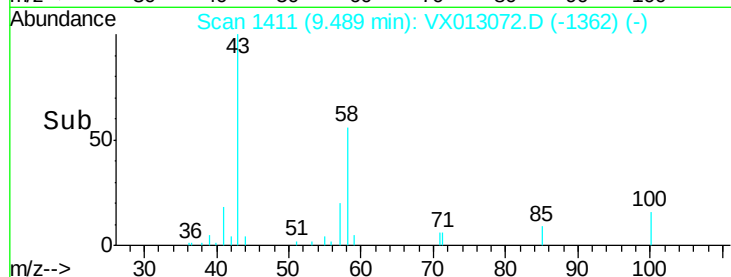
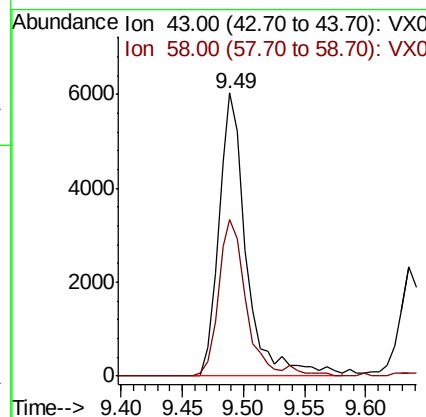
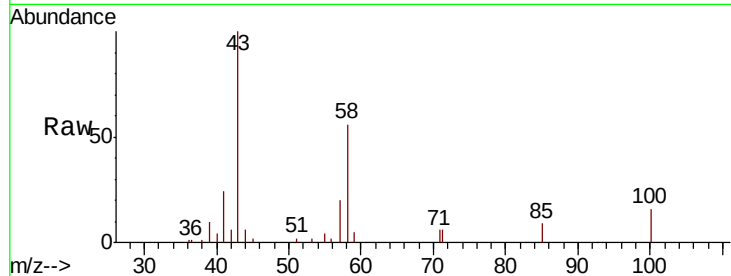
#59
2-Hexanone
Concen: 4.342 ug/l
RT: 9.49 min Scan# 1411
Delta R.T. -0.00 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion: 43 Resp: 9477
Ion Ratio Lower Upper
43 100
58 54.0 28.1 84.3

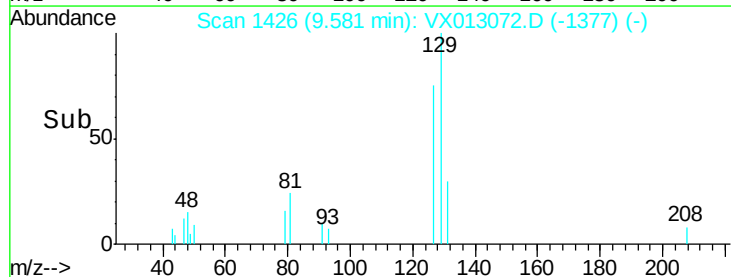
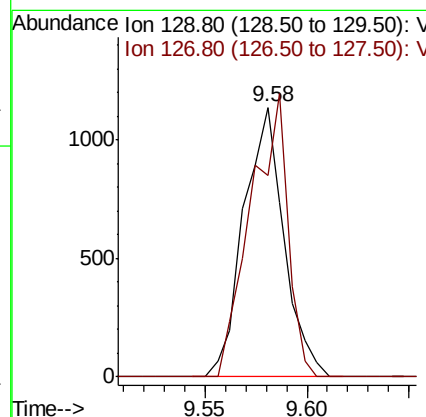
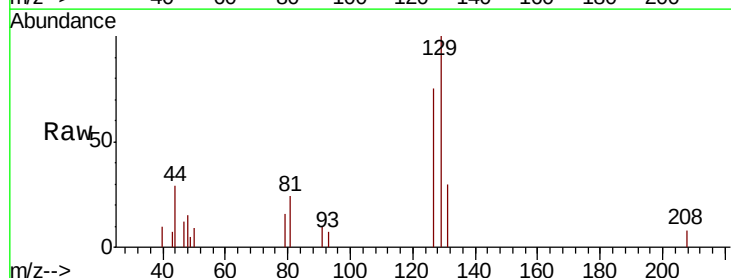
Manual Integrations
APPROVED

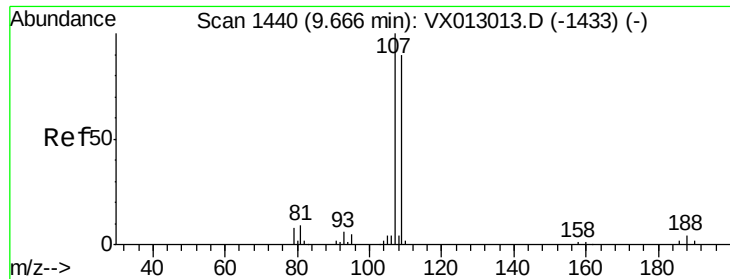
MMDadoda
10/16/2019 9:57:54 AM



#60
Dibromochloromethane
Concen: 0.850 ug/l
RT: 9.58 min Scan# 1426
Delta R.T. 0.00 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Tgt Ion: 129 Resp: 1561
Ion Ratio Lower Upper
129 100
127 96.6 38.9 116.7





#61

1,2-Dibromoethane

Concen: 0.903 ug/l

RT: 9.67 min Scan# 1440

Delta R.T. -0.00 min

Lab File: VX013072.D

Acq: 15 Oct 2019 12:58

Instrument :

MSVOA_X

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:107 Resp: 1780

Ion Ratio Lower Upper

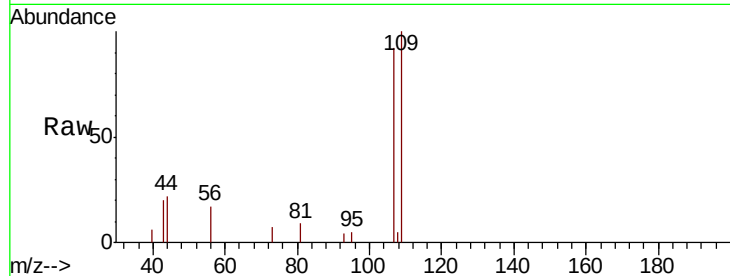
107 100

109 108.7 75.8 113.6

Manual Integrations
APPROVED

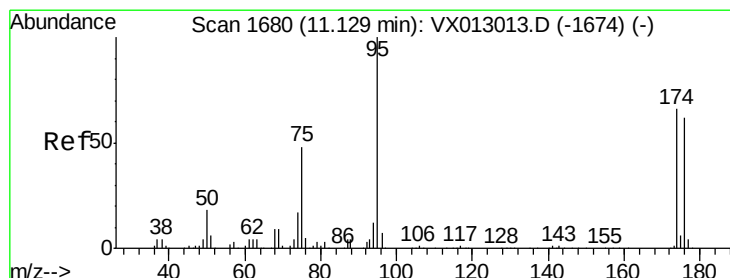
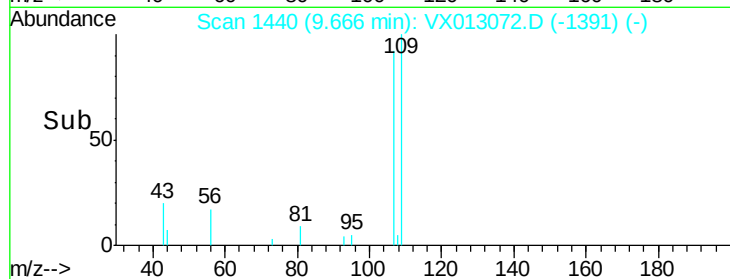
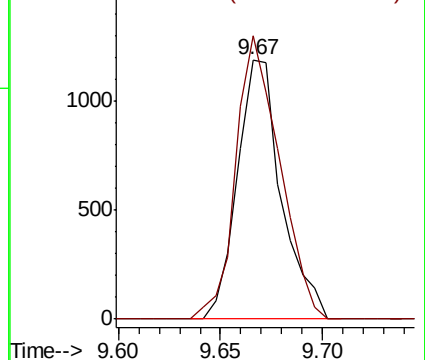
MMDadoda

10/16/2019 9:57:54 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 44.523 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013072.D

Acq: 15 Oct 2019 12:58

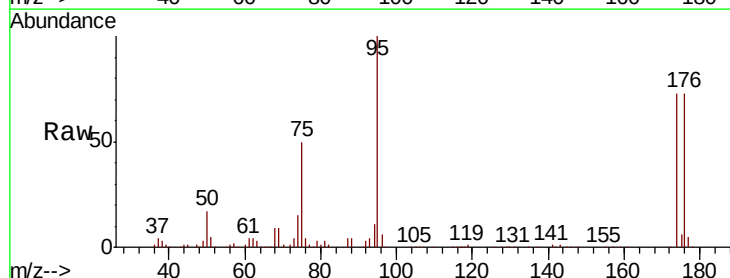
Tgt Ion: 95 Resp: 110381

Ion Ratio Lower Upper

95 100

174 73.7 0.0 143.4

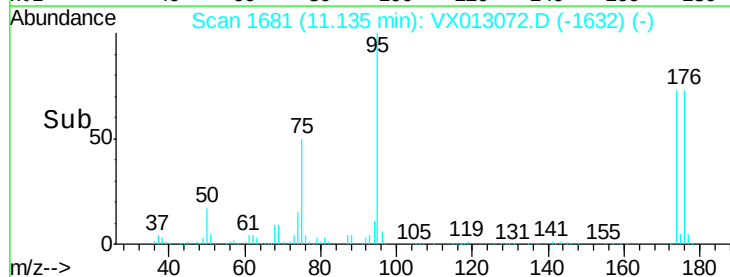
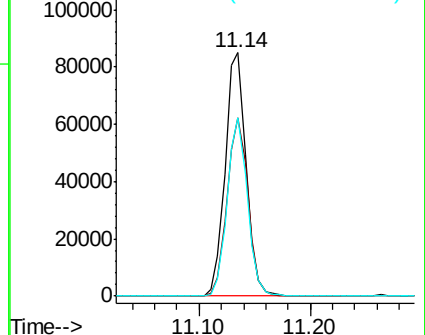
176 70.8 0.0 136.0

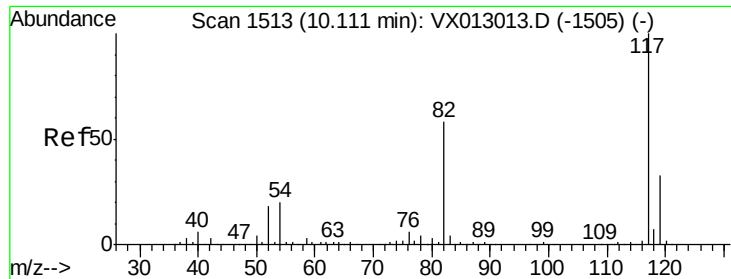


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013072.D

Acq: 15 Oct 2019 12:58

Instrument :

MSVOA_X

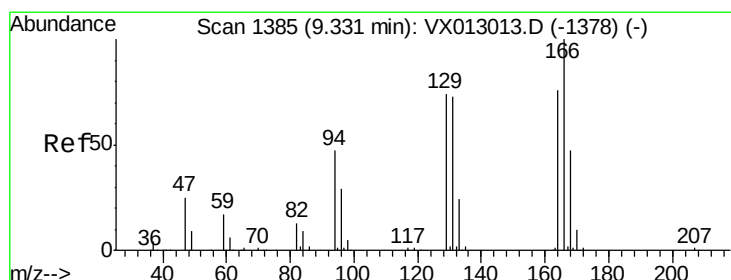
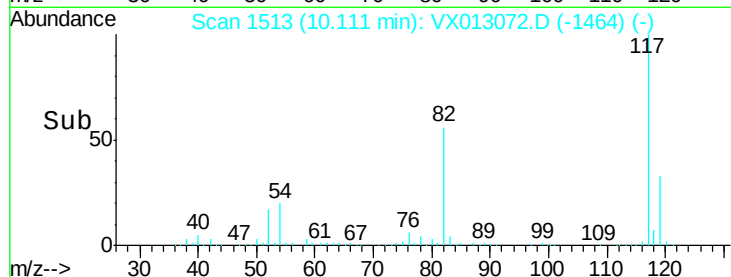
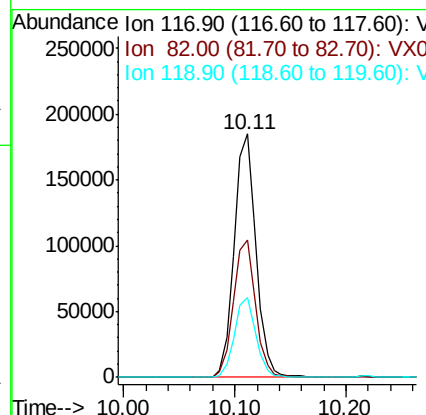
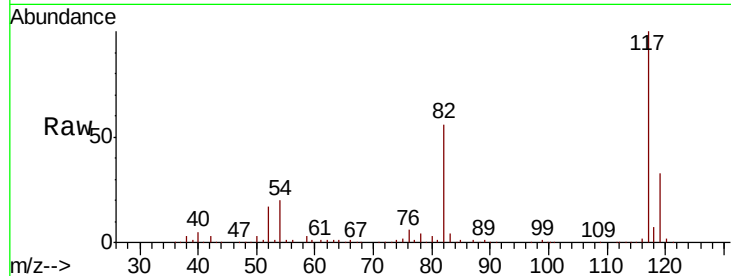
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	117	Resp:	249535
Ion Ratio	Lower	Upper	
117	100		
82	56.2	44.1	66.1
119	32.7	25.8	38.8

Manual Integrations
APPROVED

MMDadoda
10/16/2019 9:57:54 AM



#64

Tetrachloroethene

Concen: 1.190 ug/l

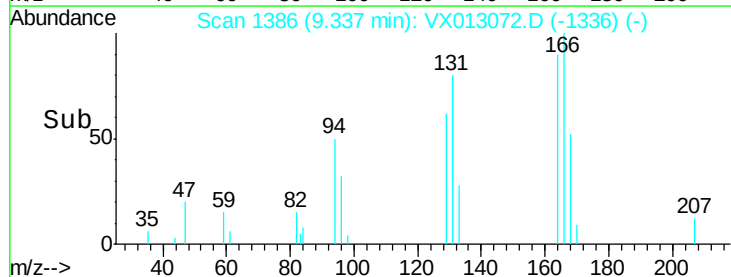
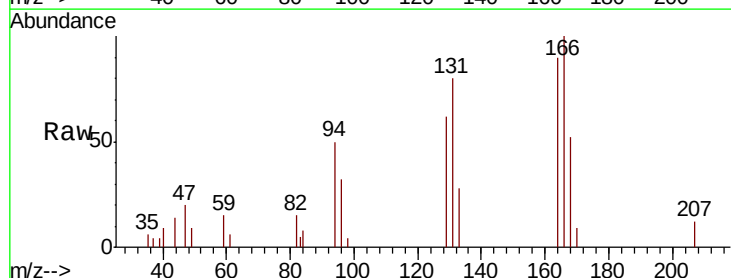
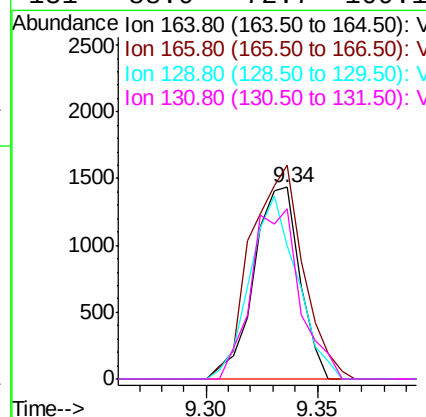
RT: 9.34 min Scan# 1386

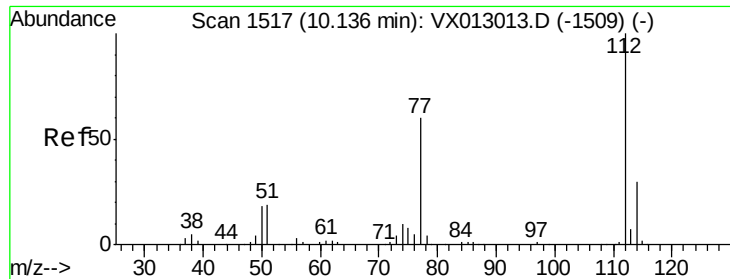
Delta R.T. 0.01 min

Lab File: VX013072.D

Acq: 15 Oct 2019 12:58

Tgt Ion:	164	Resp:	2060
Ion Ratio	Lower	Upper	
164	100		
166	111.4	96.9	145.3
129	69.4	77.9	116.9
131	88.9	72.7	109.1





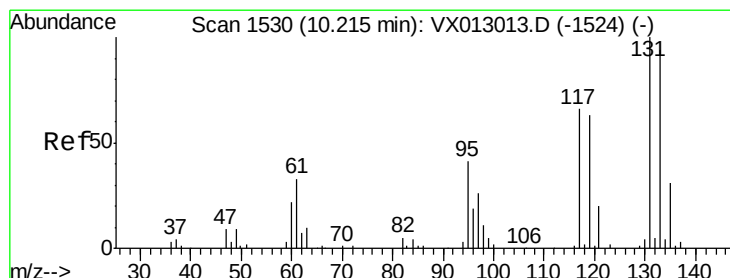
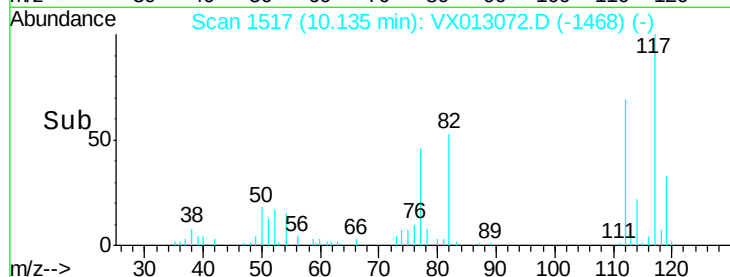
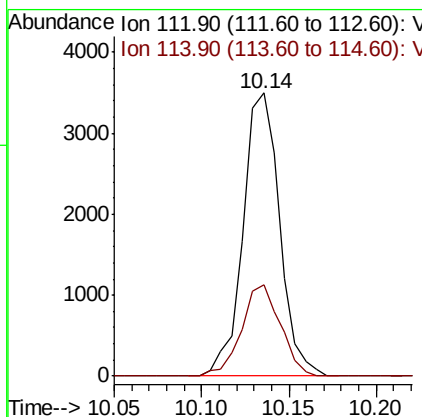
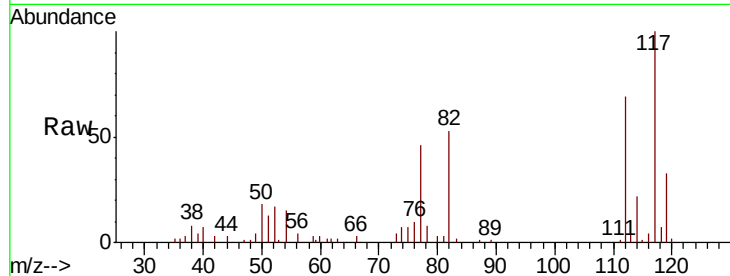
#65
Chlorobenzene
Concen: 1.031 ug/l
RT: 10.14 min Scan# 1517
Delta R.T. -0.00 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion:112 Resp: 5109
Ion Ratio Lower Upper
112 100
114 32.1 25.7 38.5

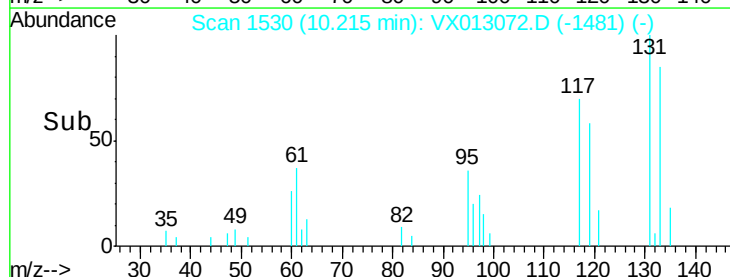
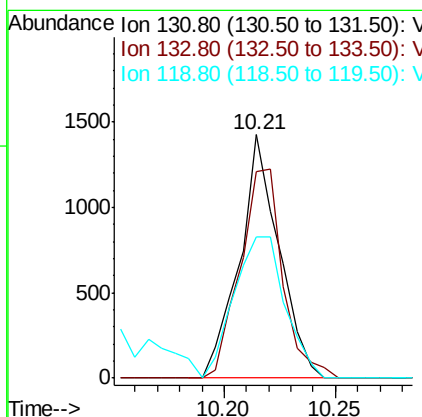
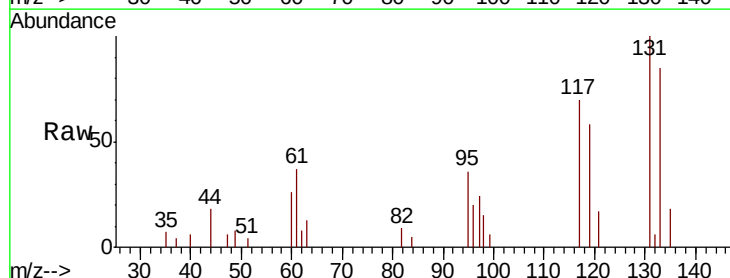
Manual Integrations
APPROVED

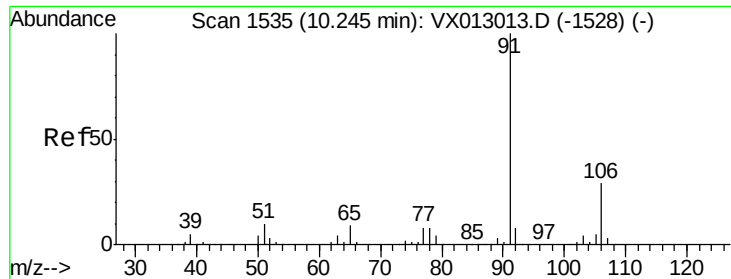
MMDadoda
10/16/2019 9:57:54 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 1.025 ug/l
RT: 10.21 min Scan# 1530
Delta R.T. -0.00 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Tgt Ion:131 Resp: 1761
Ion Ratio Lower Upper
131 100
133 93.2 47.2 141.6
119 0.0 32.6 98.0#





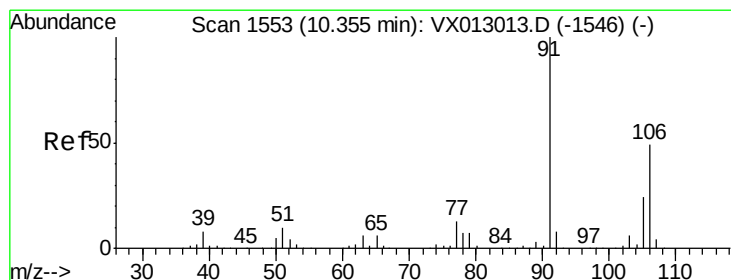
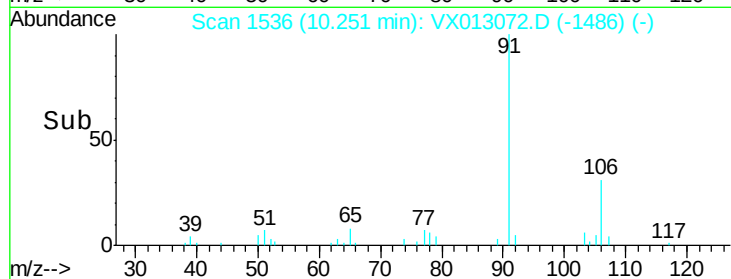
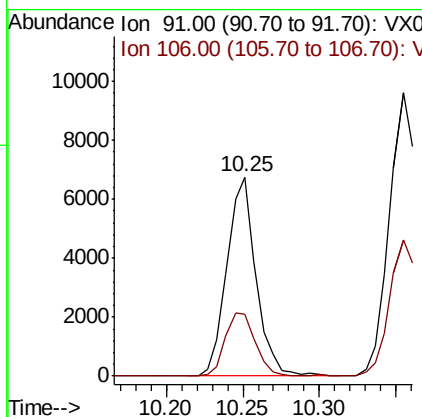
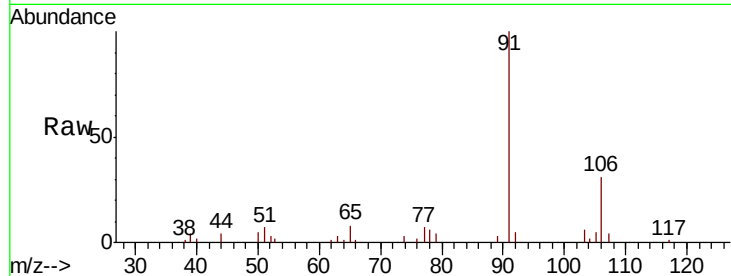
#67
Ethyl Benzene
Concen: 1.013 ug/l
RT: 10.25 min Scan# 1536
Delta R.T. 0.01 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion: 91 Resp: 8913
Ion Ratio Lower Upper
91 100
106 30.8 23.9 35.9

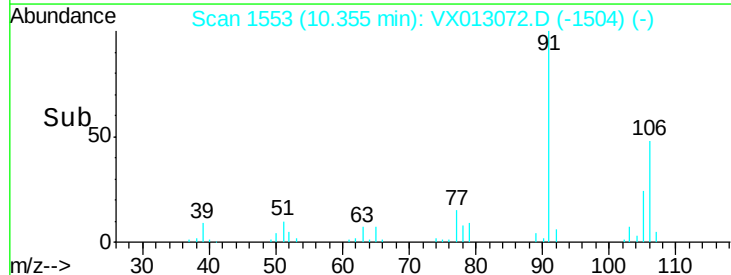
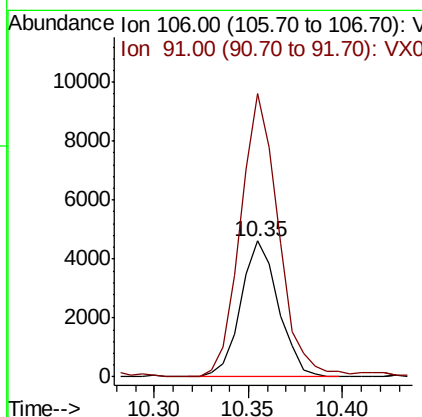
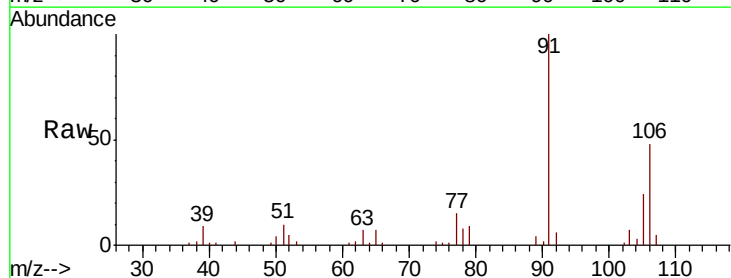
Manual Integrations
APPROVED

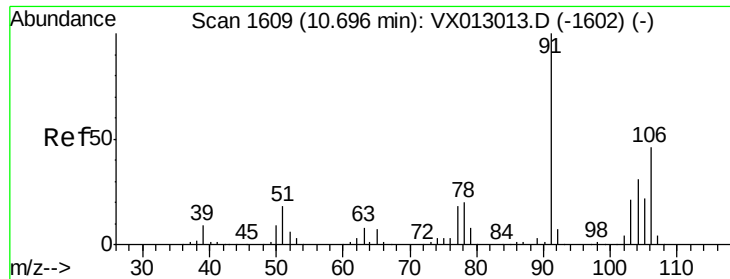
MMDadoda
10/16/2019 9:57:54 AM



#68
m/p-Xylenes
Concen: 1.942 ug/l
RT: 10.35 min Scan# 1553
Delta R.T. -0.00 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Tgt Ion: 106 Resp: 6387
Ion Ratio Lower Upper
106 100
91 211.2 165.3 247.9





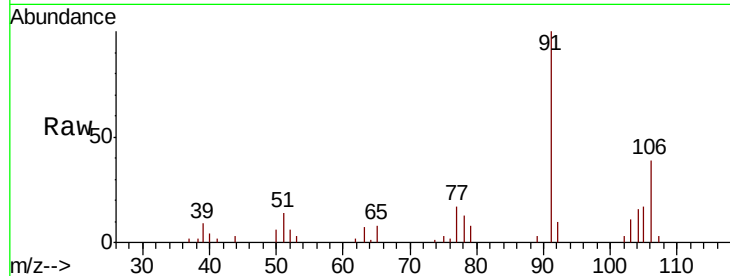
#69
o-Xylene
Concen: 1.019 ug/l
RT: 10.70 min Scan# 1609
Delta R.T. -0.00 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

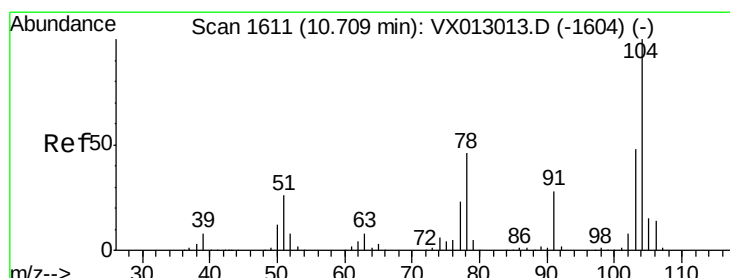
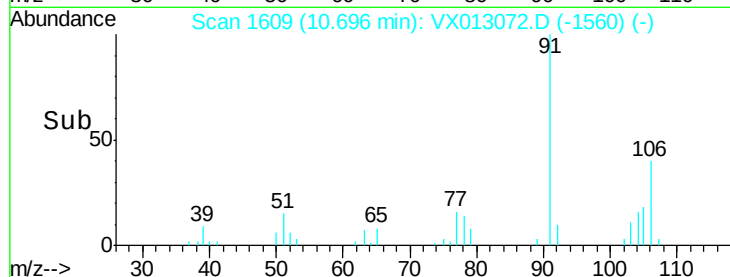
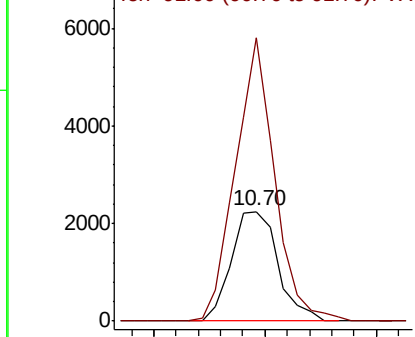
Tot Ion:106 Resp: 3267
Ion Ratio Lower Upper
106 100
91 217.8 109.1 327.3

Manual Integrations
APPROVED

MMDadoda
10/16/2019 9:57:54 AM

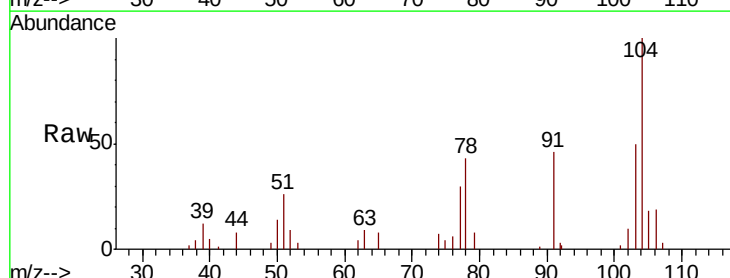


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

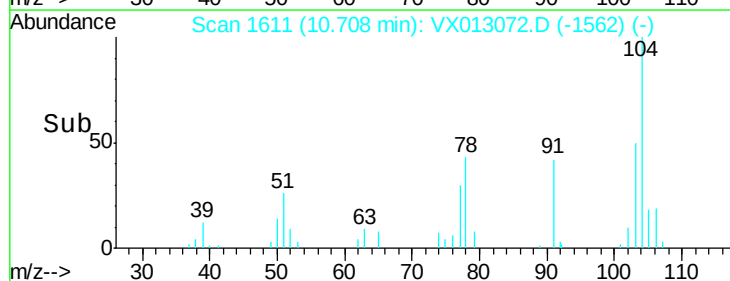
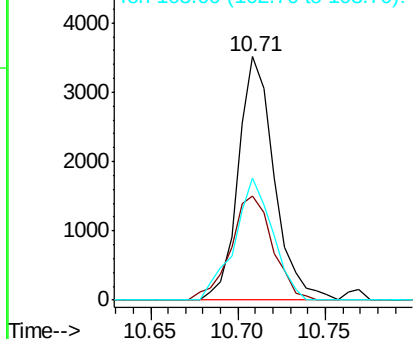


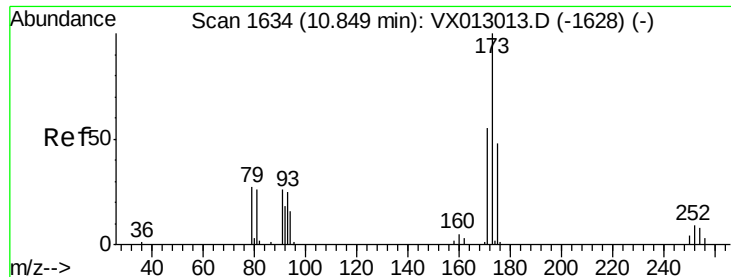
#70
Styrene
Concen: 0.921 ug/l
RT: 10.71 min Scan# 1611
Delta R.T. -0.00 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Tgt Ion:104 Resp: 5023
Ion Ratio Lower Upper
104 100
78 49.9 41.2 61.8
103 53.0 43.0 64.4



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VX0
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 0.809 ug/l

RT: 10.85 min Scan# 1635

Delta R.T. 0.00 min

Lab File: VX013072.D

Acq: 15 Oct 2019 12:58

Instrument :

MSVOA_X

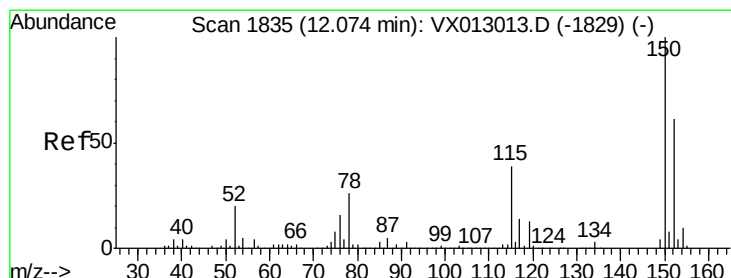
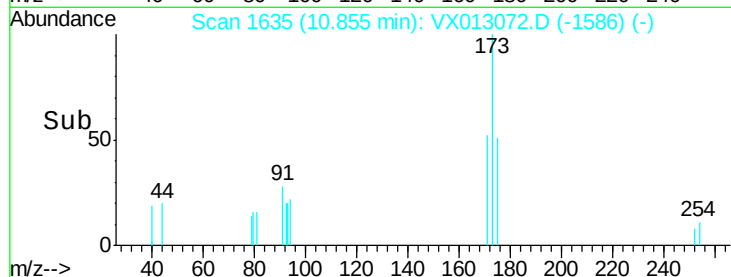
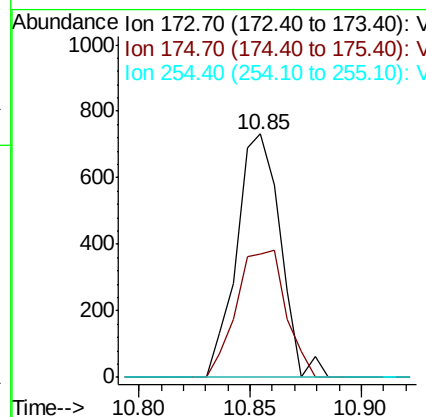
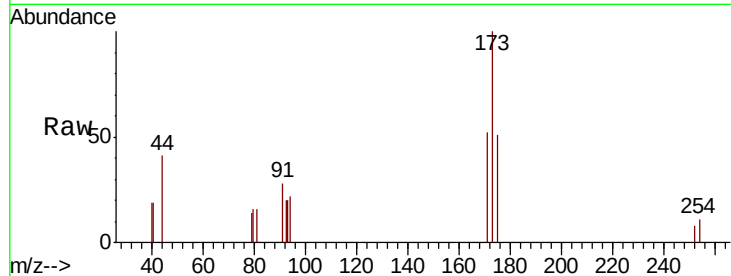
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
173	100		
175	59.0	24.1	72.3
254	0.0	0.1	0.1#

Manual Integrations
APPROVED

MMDadoda
10/16/2019 9:57:54 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

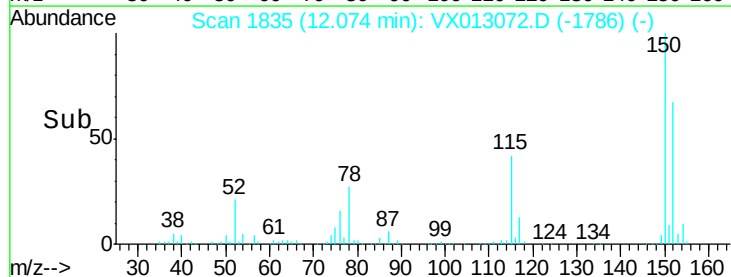
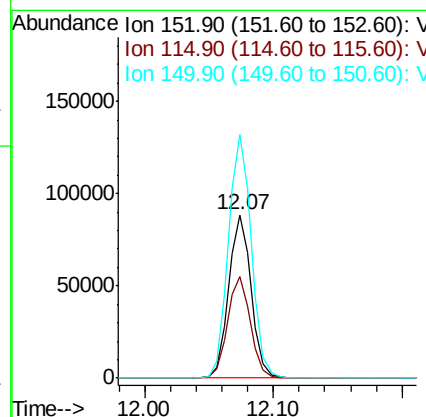
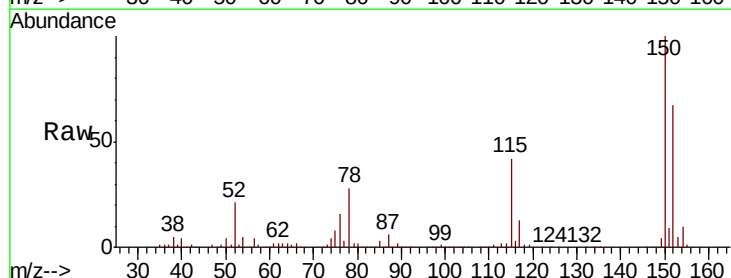
RT: 12.07 min Scan# 1835

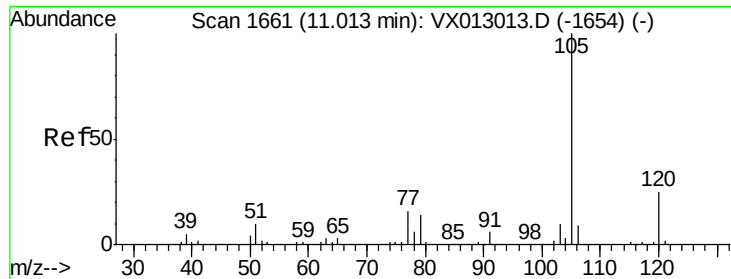
Delta R.T. -0.00 min

Lab File: VX013072.D

Acq: 15 Oct 2019 12:58

Tgt Ion	Ratio	Lower	Upper
152	100		
115	63.2	44.5	133.5
150	152.8	0.0	353.4





#73

Isopropylbenzene

Concen: 1.024 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VX013072.D

Acq: 15 Oct 2019 12:58

Instrument :

MSVOA_X

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 105 Resp: 8180

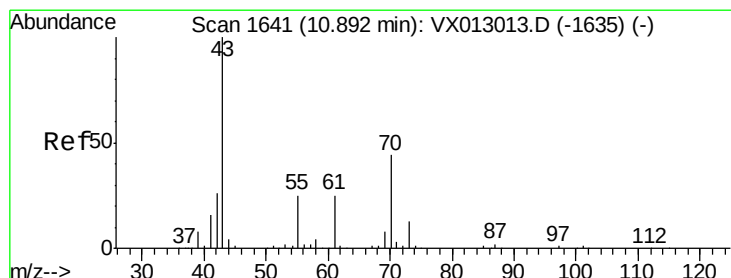
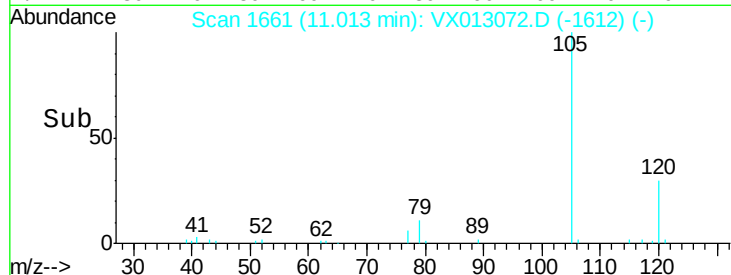
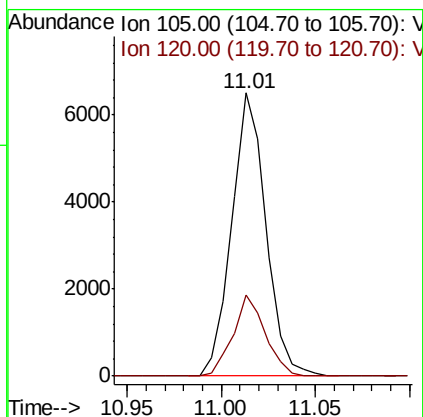
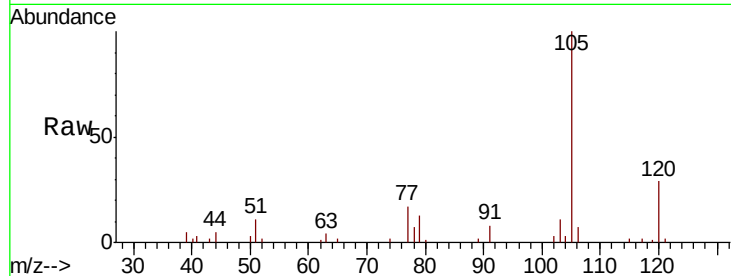
Ion Ratio Lower Upper

105 100

120 27.1 13.0 39.0

Manual Integrations
APPROVED

MMDadoda
10/16/2019 9:57:54 AM



#74

N-ethyl acetate

Concen: 0.933 ug/l

RT: 10.90 min Scan# 1642

Delta R.T. 0.01 min

Lab File: VX013072.D

Acq: 15 Oct 2019 12:58

Tgt Ion: 43 Resp: 3209

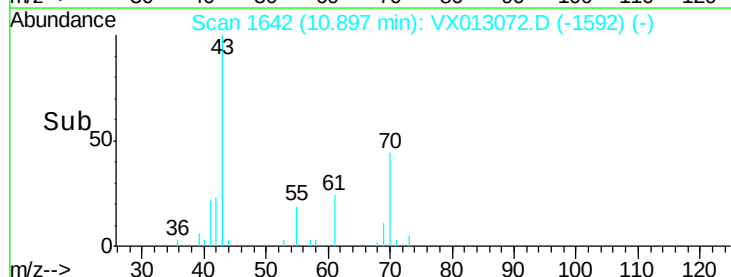
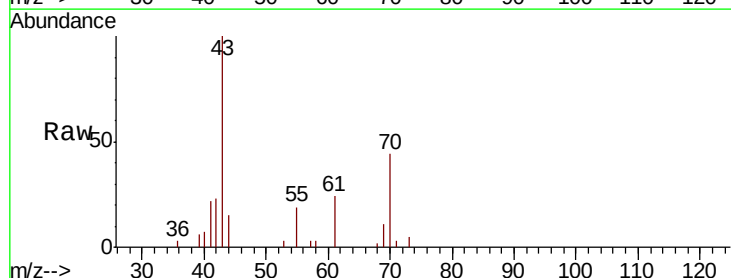
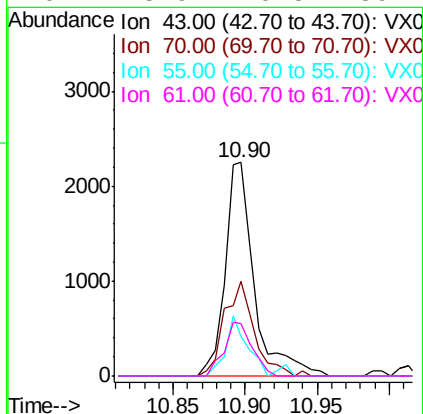
Ion Ratio Lower Upper

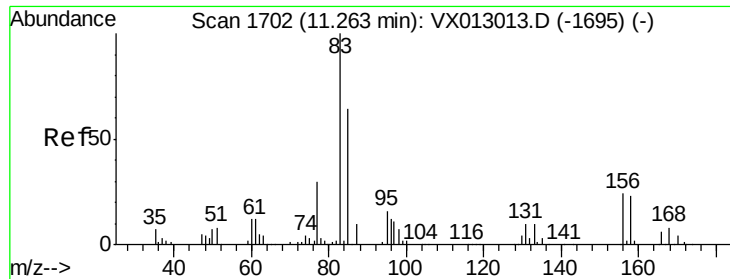
43 100

70 45.7 36.4 54.6

55 21.4 20.2 30.2

61 23.9 20.5 30.7





#75

1,1,2,2-Tetrachloroethane

Concen: 1.020 ug/l

RT: 11.26 min Scan# 1702

Delta R.T. -0.00 min

Lab File: VX013072.D

Acq: 15 Oct 2019 12:58

Instrument :

MSVOA_X

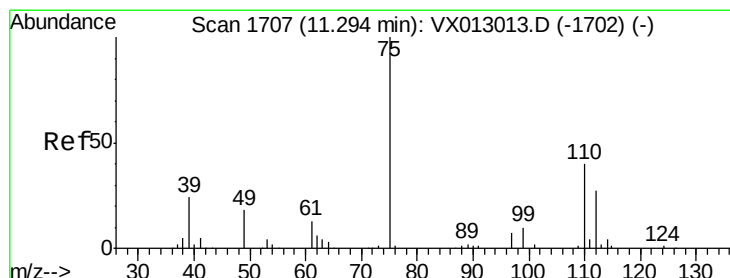
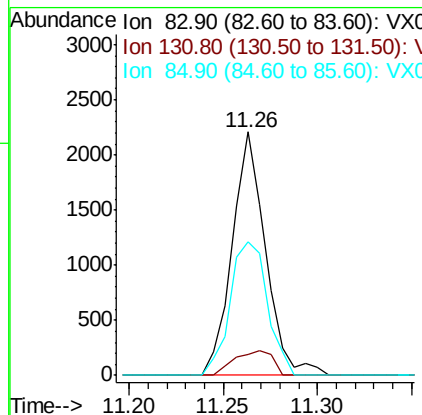
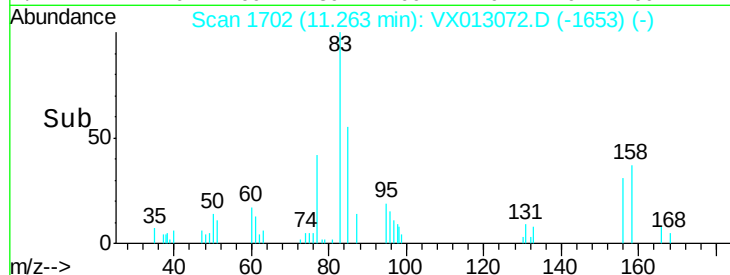
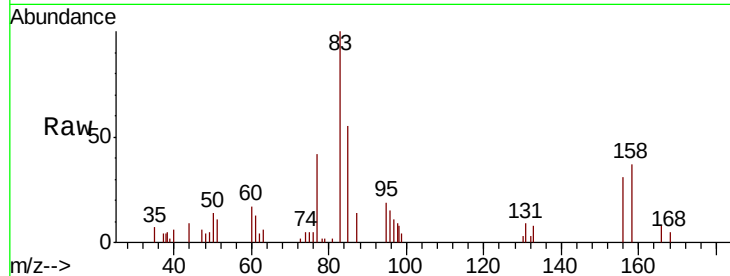
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	83	Resp:	2709
Ion	Ratio	Lower	Upper
83	100		
131	11.4	5.1	15.3
85	61.5	32.1	96.5

Manual Integrations
APPROVED

MMDadoda
10/16/2019 9:57:54 AM



#76

1,2,3-Trichloropropane

Concen: 0.939 ug/l m

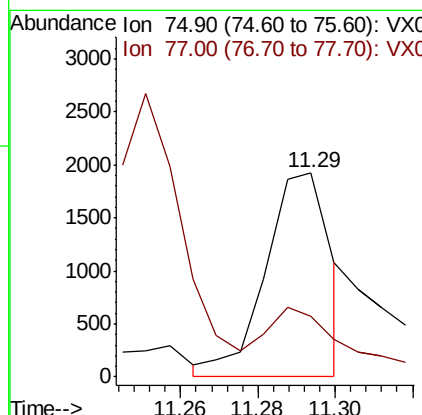
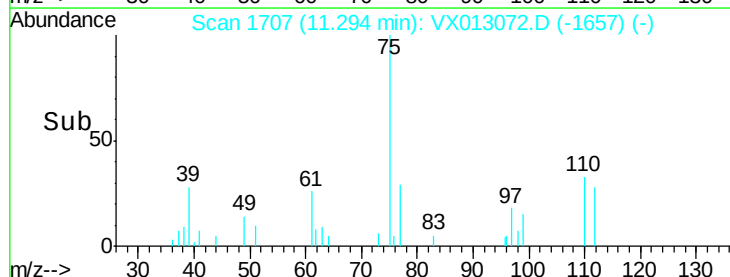
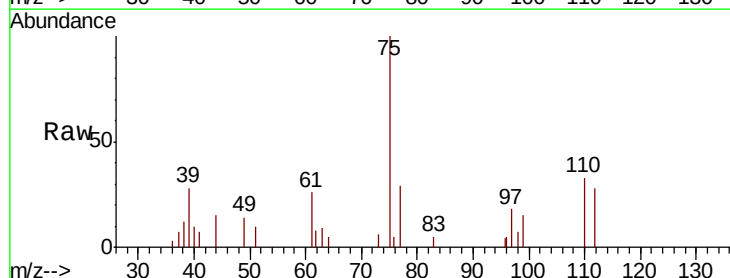
RT: 11.29 min Scan# 1707

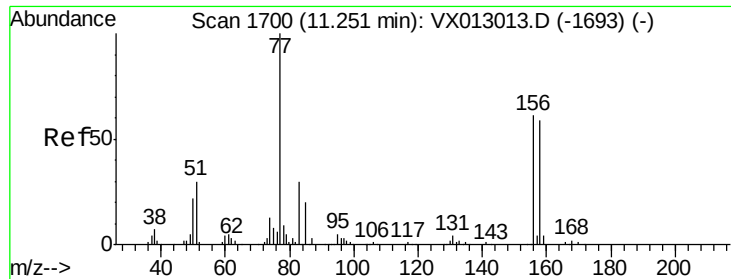
Delta R.T. 0.01 min

Lab File: VX013072.D

Acq: 15 Oct 2019 12:58

Tgt Ion:	75	Resp:	2263
Ion	Ratio	Lower	Upper
75	100		
77	43.8	22.9	68.8





#77

Bromobenzene

Concen: 1.225 ug/l

RT: 11.25 min Scan# 1700

Delta R.T. -0.00 min

Lab File: VX013072.D

Acq: 15 Oct 2019 12:58

Instrument :

MSVOA_X

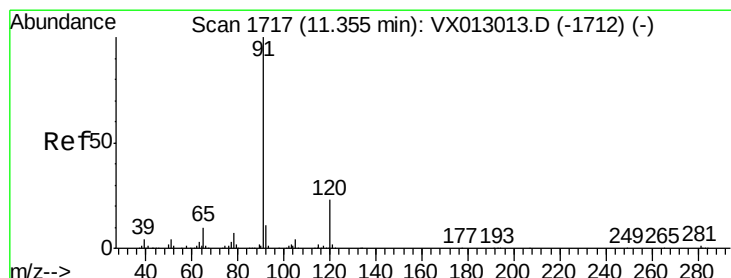
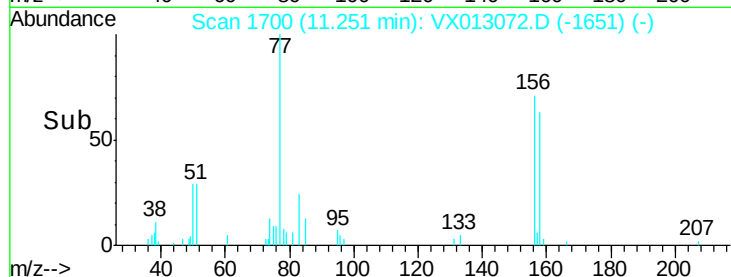
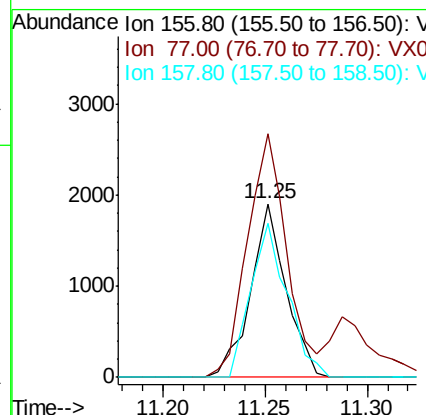
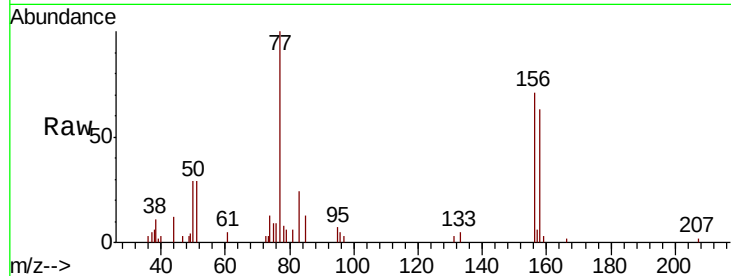
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
156	100		
77	154.8	83.7	251.0
158	91.2	48.6	145.9

Manual Integrations
APPROVED

MMDadoda
10/16/2019 9:57:54 AM



#78

n-propylbenzene

Concen: 1.029 ug/l

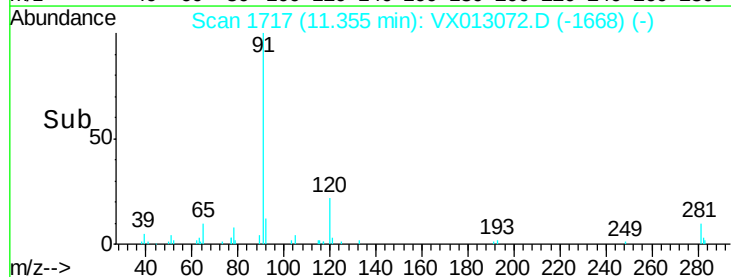
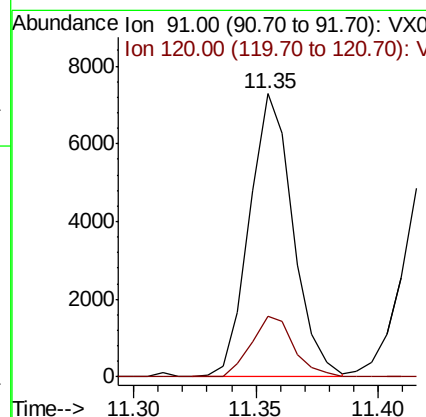
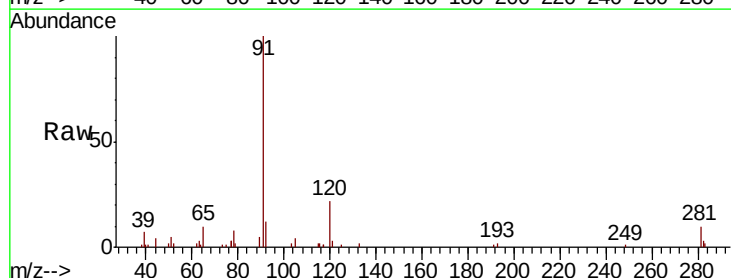
RT: 11.35 min Scan# 1717

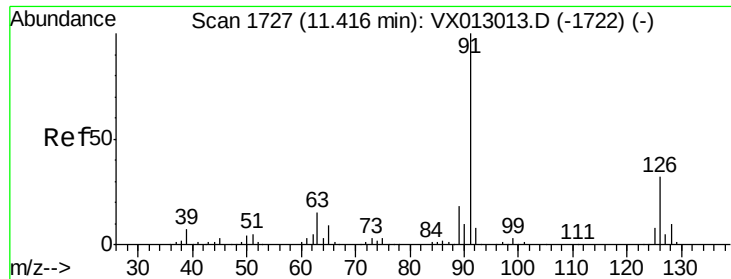
Delta R.T. -0.00 min

Lab File: VX013072.D

Acq: 15 Oct 2019 12:58

Tgt Ion	Ratio	Lower	Upper
91	100		
120	20.8	11.7	35.1





#79

2-Chlorotoluene

Concen: 1.111 ug/l

RT: 11.42 min Scan# 1727

Delta R.T. -0.00 min

Lab File: VX013072.D

Acq: 15 Oct 2019 12:58

Instrument :

MSVOA_X

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 91 Resp: 6135

Ion Ratio Lower Upper

91 100

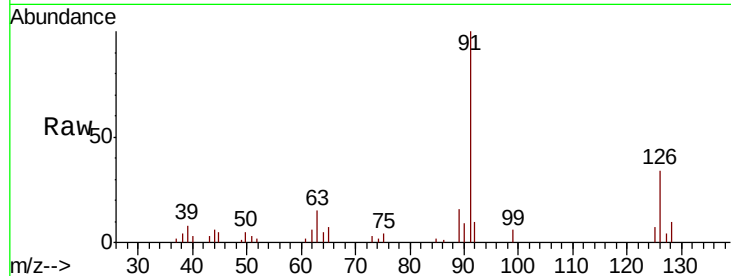
126 30.7 16.3 48.8

Manual Integrations

APPROVED

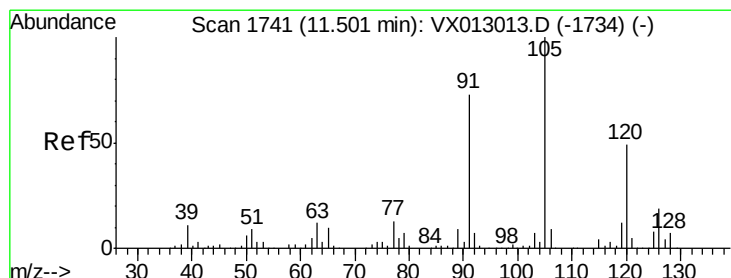
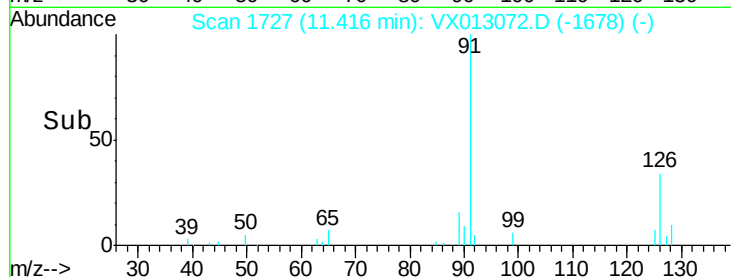
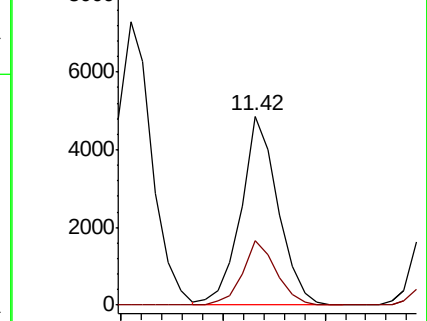
MMDadoda

10/16/2019 9:57:54 AM



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 1.002 ug/l

RT: 11.50 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VX013072.D

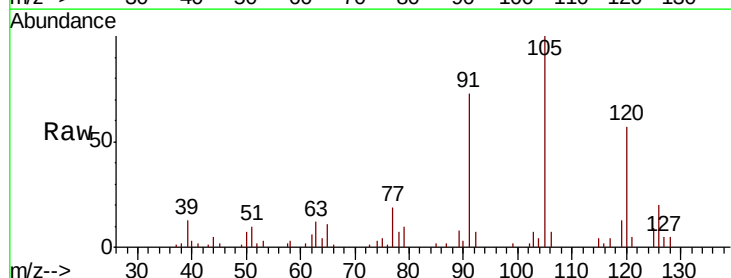
Acq: 15 Oct 2019 12:58

Tgt Ion: 105 Resp: 6686

Ion Ratio Lower Upper

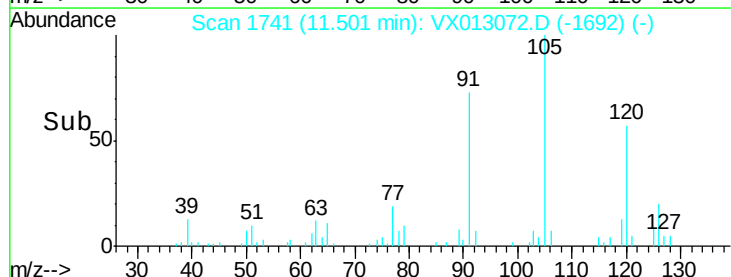
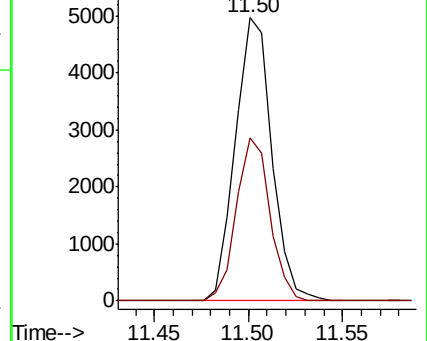
105 100

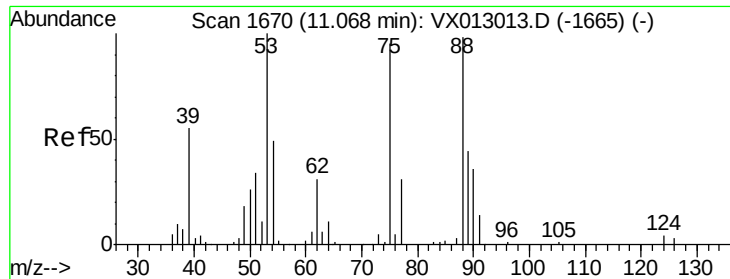
120 52.9 24.8 74.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 0.780 ug/l m

RT: 11.07 min Scan# 1671

Delta R.T. 0.01 min

Lab File: VX013072.D

Acq: 15 Oct 2019 12:58

Instrument :

MSVOA_X

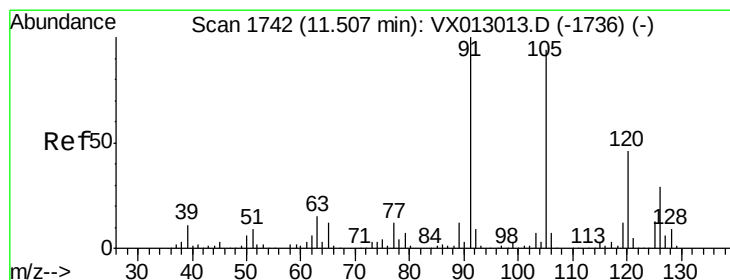
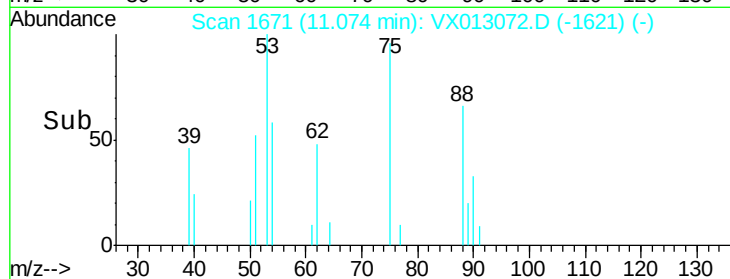
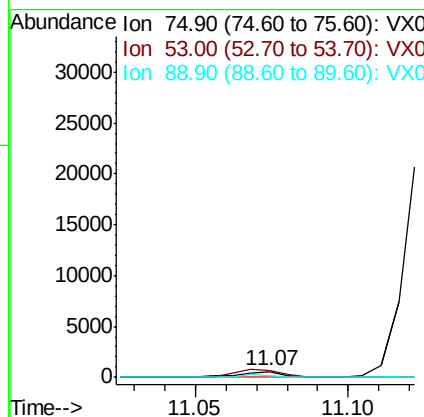
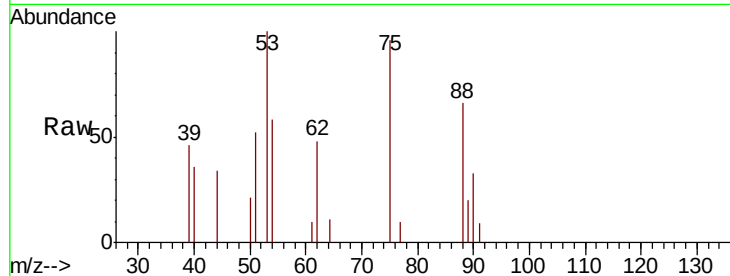
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	78.5	117.7#
89	0.0	37.4	56.2#

Manual Integrations
APPROVED

MMDadoda
10/16/2019 9:57:54 AM



#82

4-Chlorotoluene

Concen: 1.038 ug/l

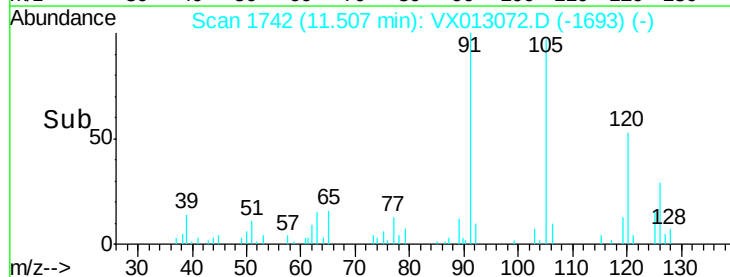
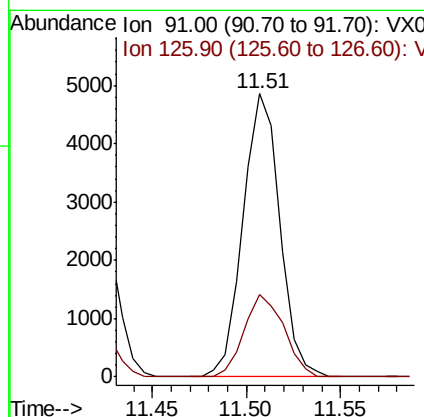
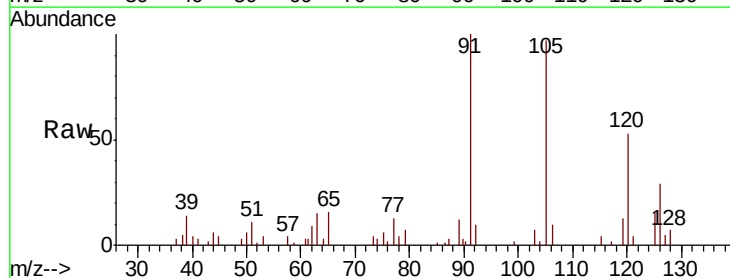
RT: 11.51 min Scan# 1742

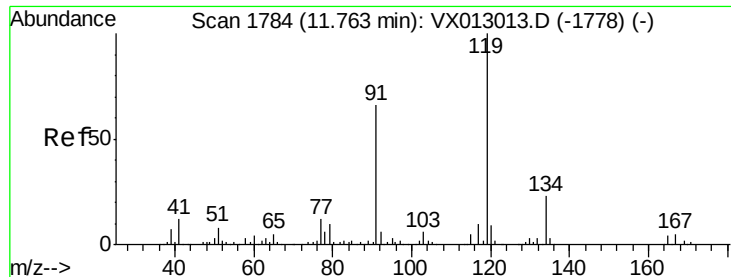
Delta R.T. -0.00 min

Lab File: VX013072.D

Acq: 15 Oct 2019 12:58

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.5	14.2	42.6





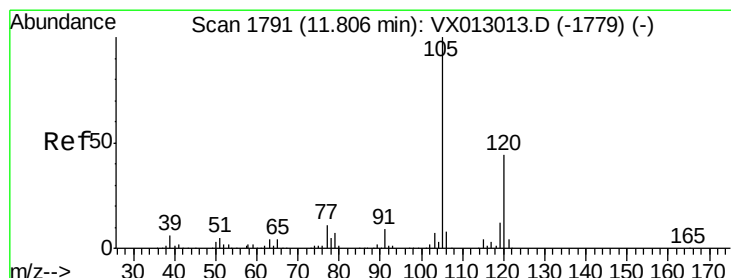
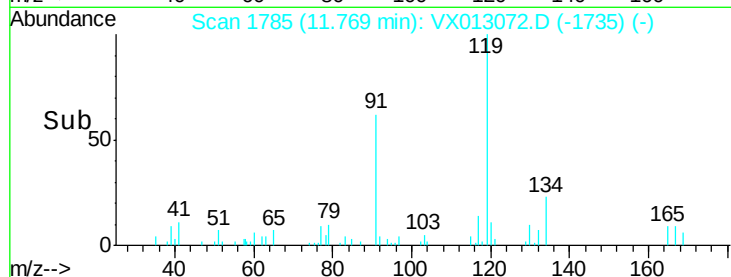
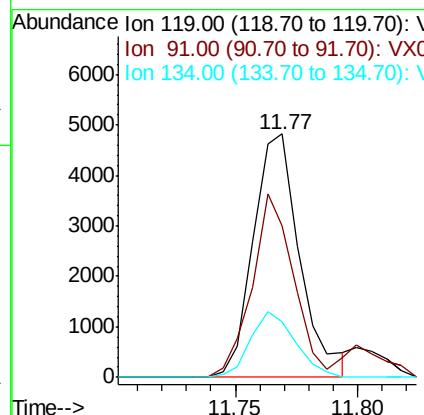
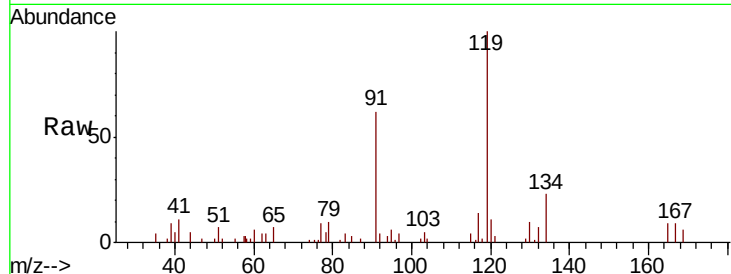
#83
tert-Butylbenzene
Concen: 0.982 ug/l
RT: 11.77 min Scan# 1785
Delta R.T. 0.01 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
119	100		
91	66.9	29.3	87.9
134	26.1	11.5	34.4

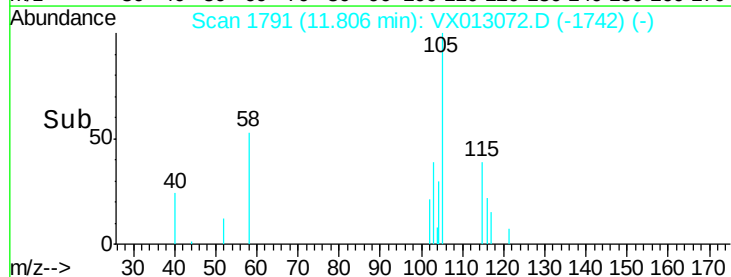
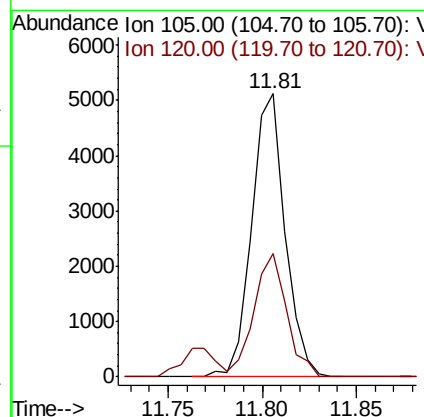
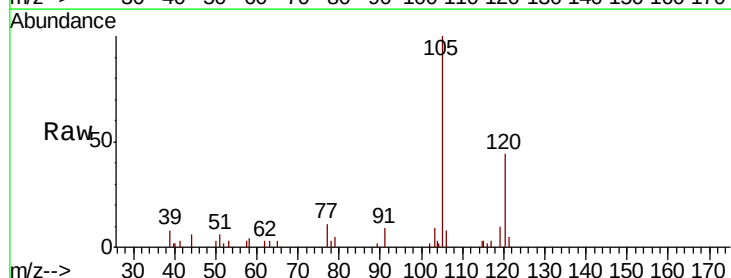
Manual Integrations
APPROVED

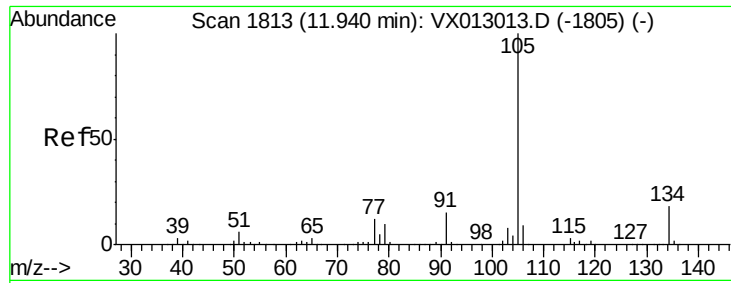
MMDadoda
10/16/2019 9:57:54 AM



#84
1,2,4-Trimethylbenzene
Concen: 0.930 ug/l
RT: 11.81 min Scan# 1791
Delta R.T. -0.00 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Tgt Ion	Ratio	Lower	Upper
105	100		
120	42.7	21.8	65.3





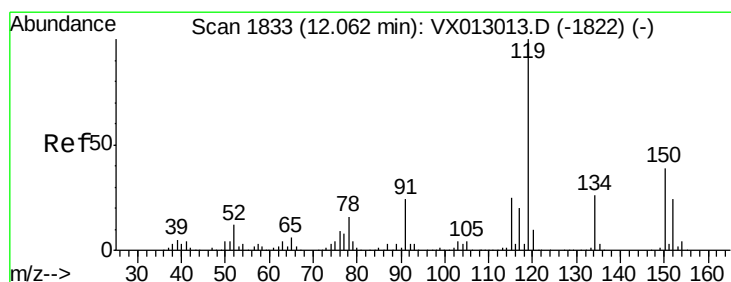
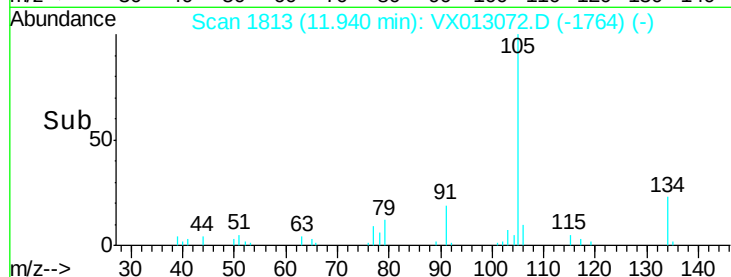
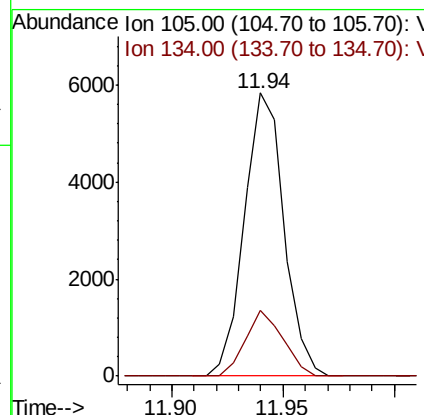
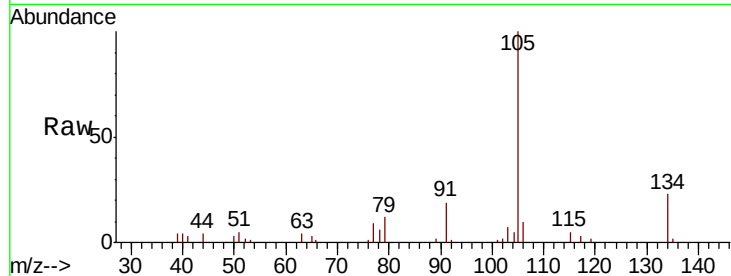
#85
 sec-Butylbenzene
 Concen: 0.960 ug/l
 RT: 11.94 min Scan# 1813
 Delta R.T. -0.00 min
 Lab File: VX013072.D
 Acq: 15 Oct 2019 12:58

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion:105 Resp: 7239
 Ion Ratio Lower Upper
 105 100
 134 21.7 10.0 30.0

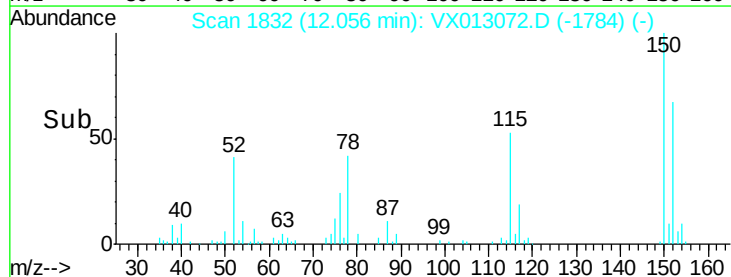
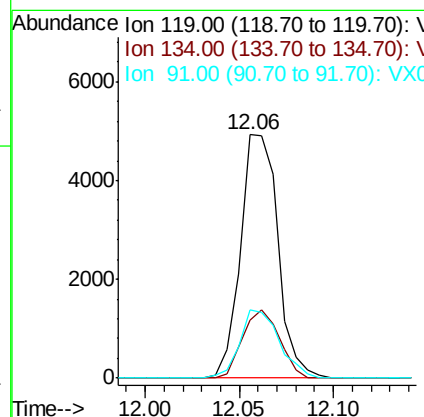
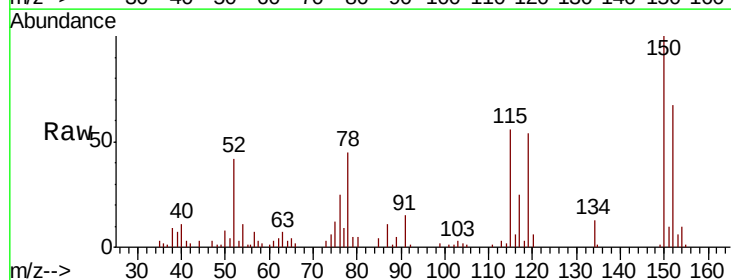
Manual Integrations
 APPROVED

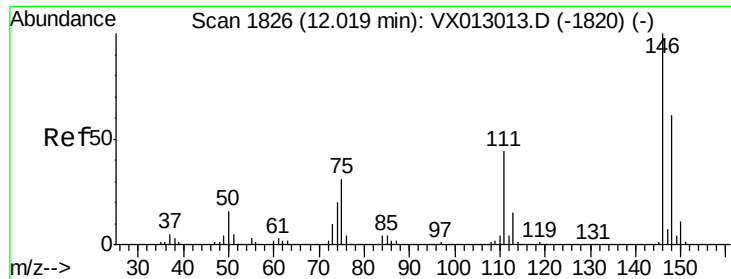
MMDadoda
 10/16/2019 9:57:54 AM



#86
 p-Isopropyltoluene
 Concen: 0.968 ug/l
 RT: 12.06 min Scan# 1832
 Delta R.T. -0.01 min
 Lab File: VX013072.D
 Acq: 15 Oct 2019 12:58

Tgt Ion:119 Resp: 6767
 Ion Ratio Lower Upper
 119 100
 134 27.7 12.6 37.8
 91 29.7 12.4 37.4





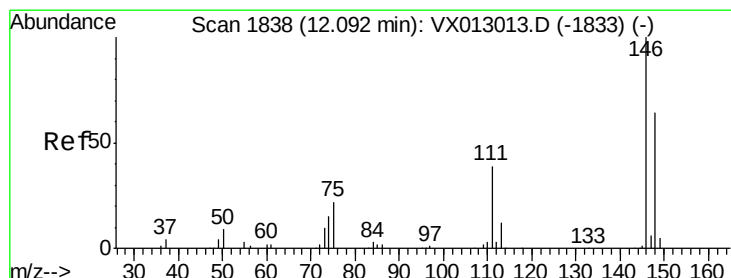
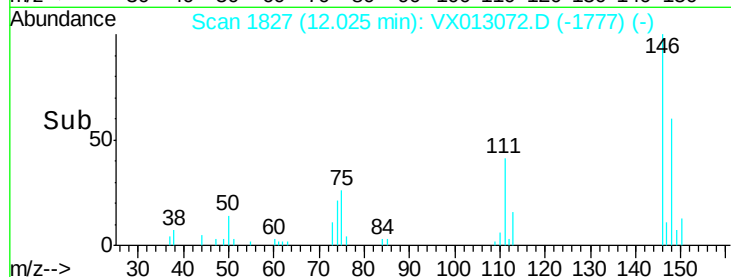
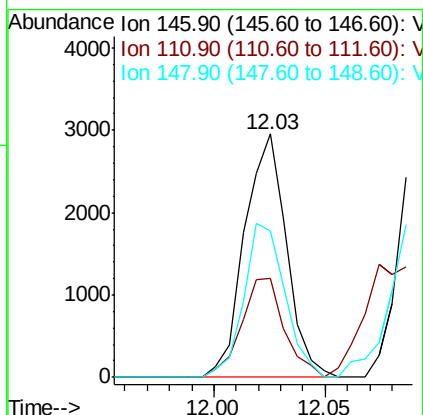
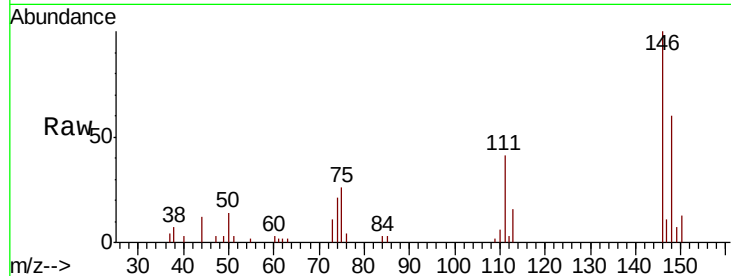
#87
 1,3-Dichlorobenzene
 Concen: 1.110 ug/l
 RT: 12.03 min Scan# 1827
 Delta R.T. 0.01 min
 Lab File: VX013072.D
 Acq: 15 Oct 2019 12:58

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.8	21.1	63.4
148	62.2	31.6	95.0

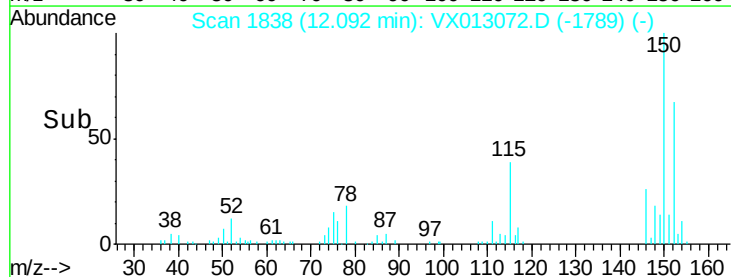
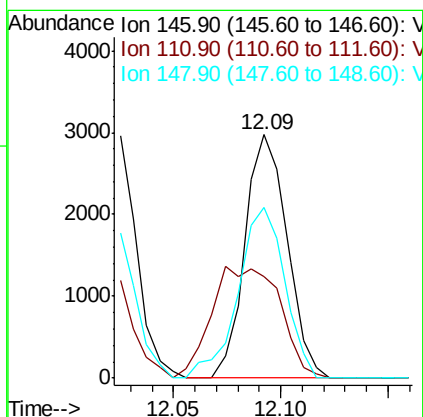
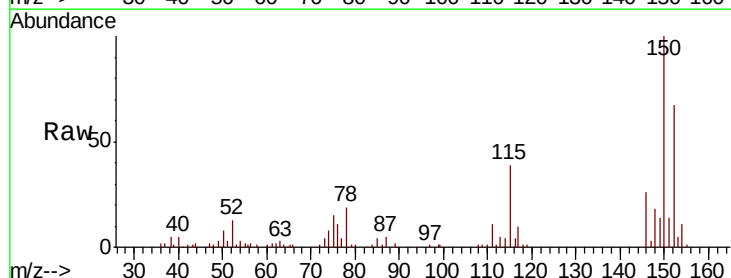
Manual Integrations
 APPROVED

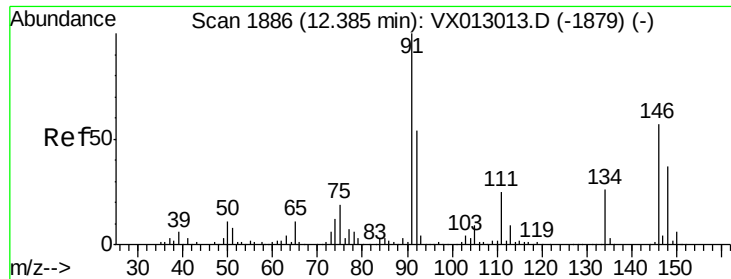
MMDadoda
 10/16/2019 9:57:54 AM



#88
 1,4-Dichlorobenzene
 Concen: 1.151 ug/l m
 RT: 12.09 min Scan# 1838
 Delta R.T. -0.00 min
 Lab File: VX013072.D
 Acq: 15 Oct 2019 12:58

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.8	21.4	64.3
148	59.3	32.1	96.5





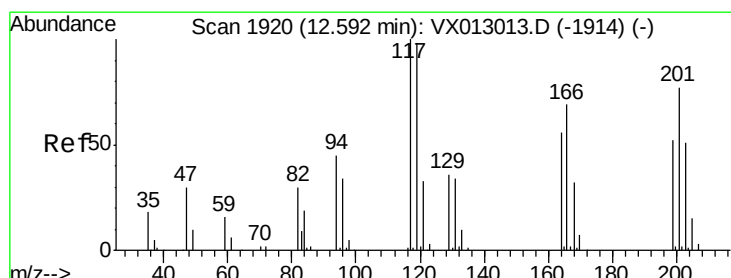
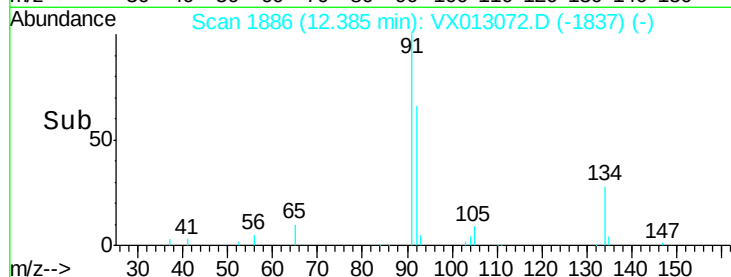
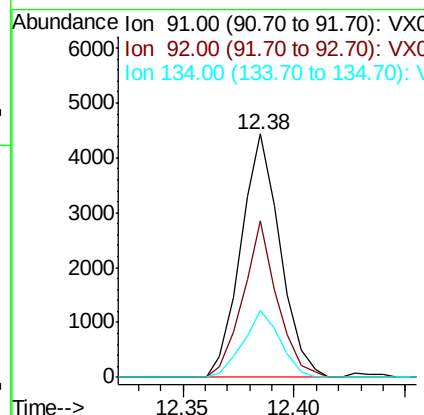
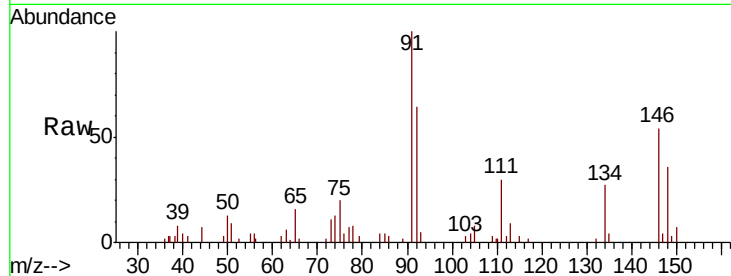
#89
n-Butylbenzene
Concen: 0.926 ug/l
RT: 12.38 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
91	100		
92	56.3	27.5	82.5
134	26.0	12.9	38.7

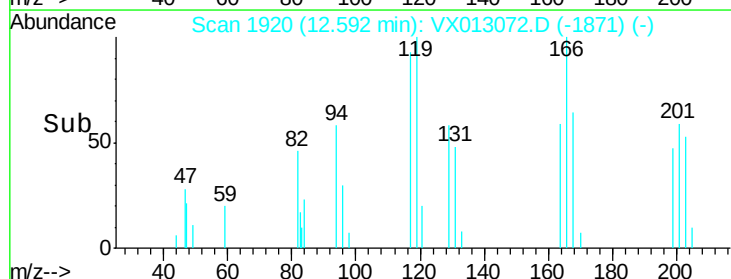
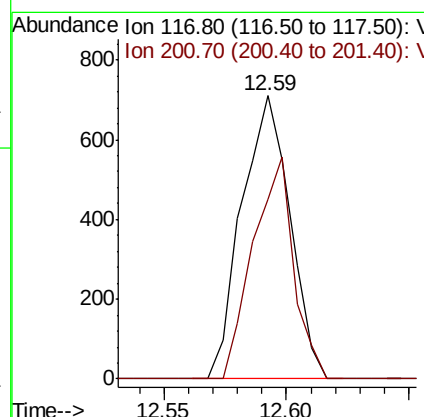
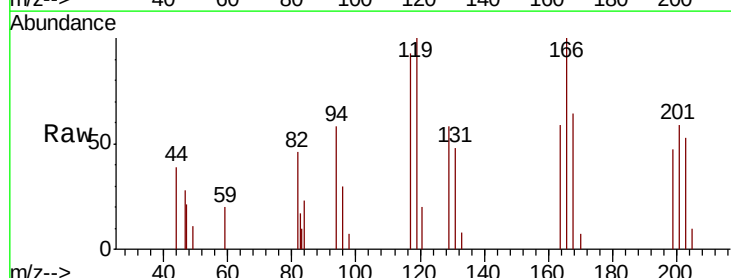
Manual Integrations
APPROVED

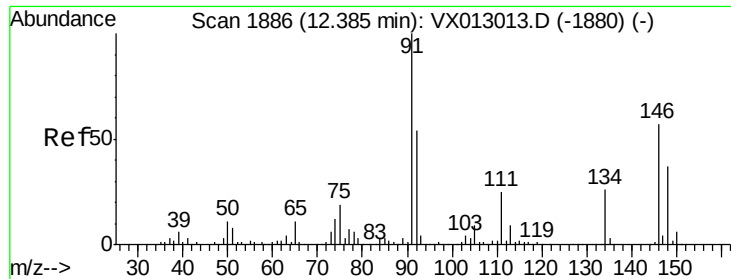
MMDadoda
10/16/2019 9:57:54 AM



#90
Hexachloroethane
Concen: 0.863 ug/l
RT: 12.59 min Scan# 1920
Delta R.T. 0.00 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Tgt Ion	Ratio	Lower	Upper
117	100		
201	66.1	36.9	110.7





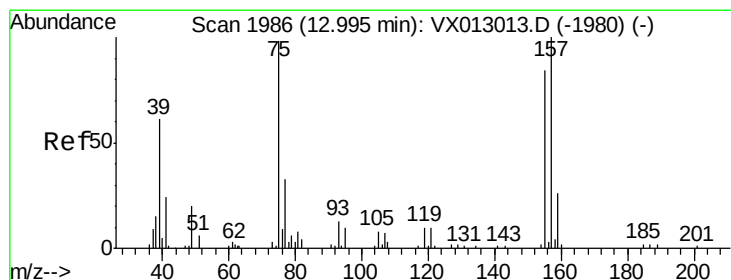
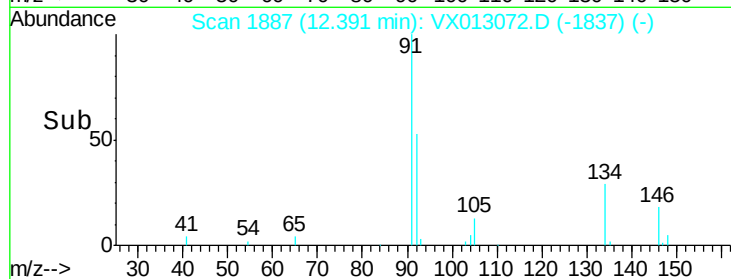
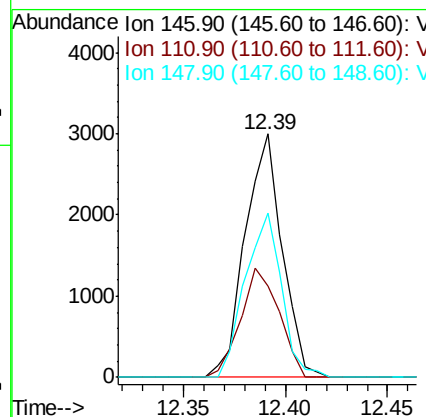
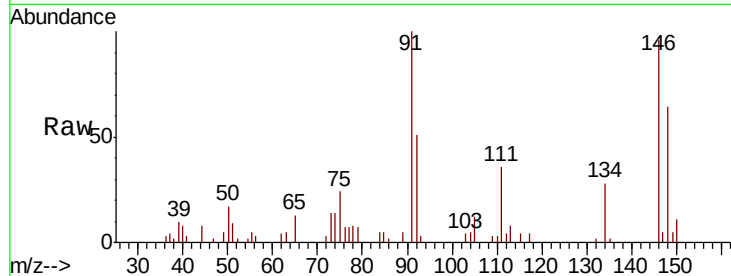
#91
 1,2-Dichlorobenzene
 Concen: 1.102 ug/l
 RT: 12.39 min Scan# 1887
 Delta R.T. 0.01 min
 Lab File: VX013072.D
 Acq: 15 Oct 2019 12:58

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.4	22.7	68.0
148	66.5	31.6	94.7

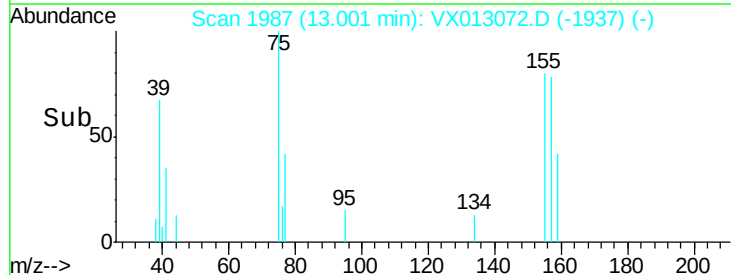
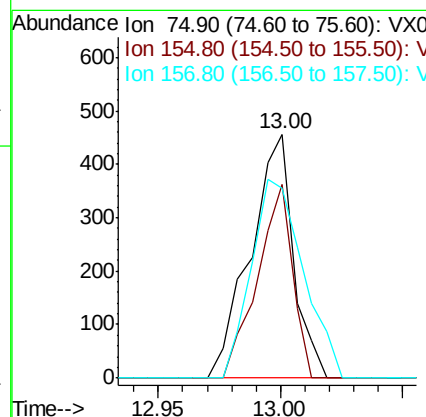
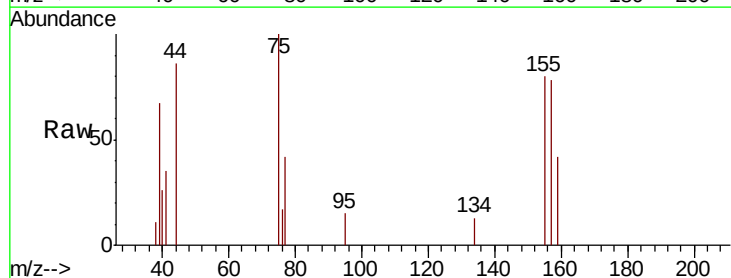
Manual Integrations
 APPROVED

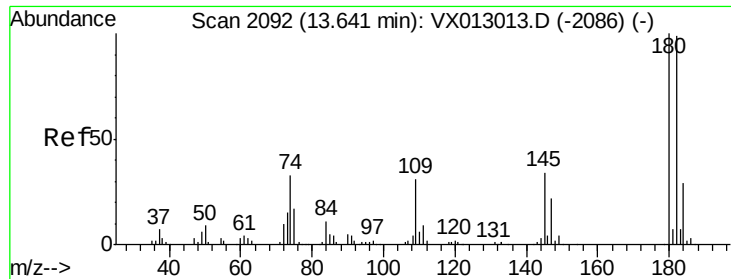
MMDadoda
 10/16/2019 9:57:54 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.901 ug/l
 RT: 13.00 min Scan# 1987
 Delta R.T. 0.01 min
 Lab File: VX013072.D
 Acq: 15 Oct 2019 12:58

Tgt Ion	Ratio	Lower	Upper
75	100		
155	64.7	43.0	128.8
157	98.0	54.1	162.3





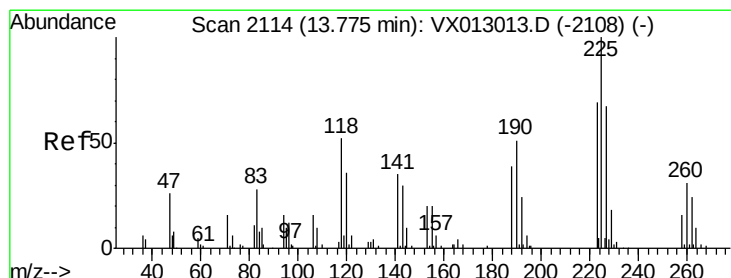
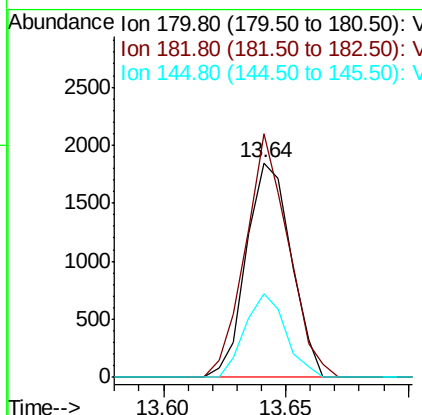
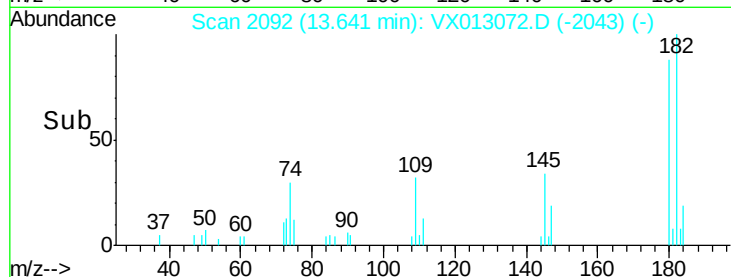
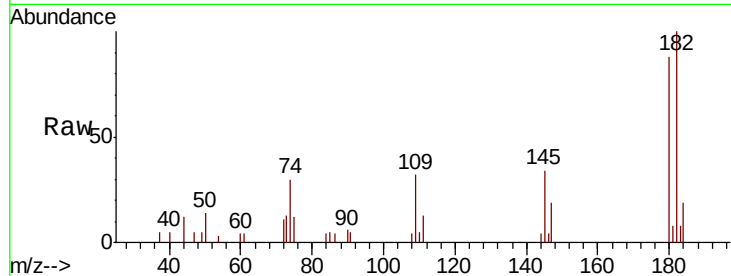
#93
 1,2,4-Trichlorobenzene
 Concen: 1.095 ug/l
 RT: 13.64 min Scan# 2092
 Delta R.T. -0.00 min
 Lab File: VX013072.D
 Acq: 15 Oct 2019 12:58

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
180	100		
182	109.0	46.8	140.4
145	35.4	16.2	48.6

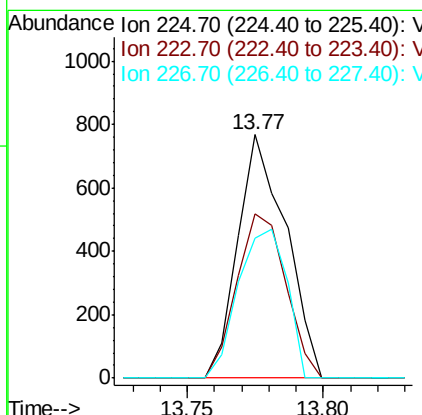
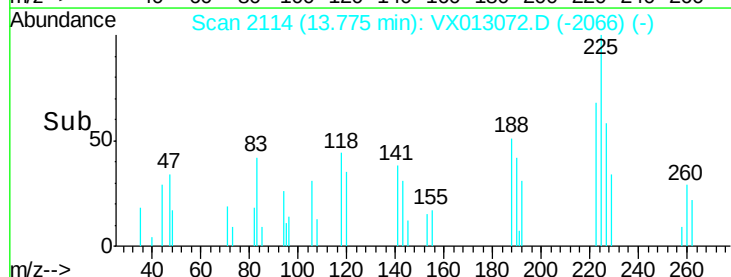
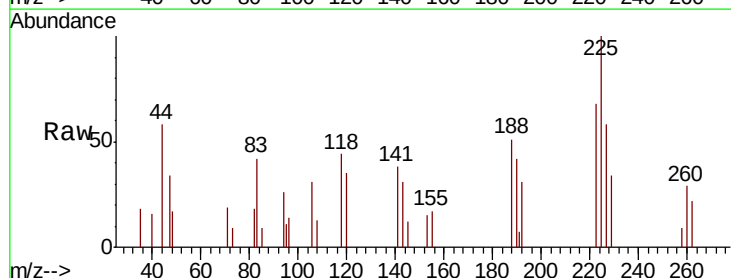
Manual Integrations
 APPROVED

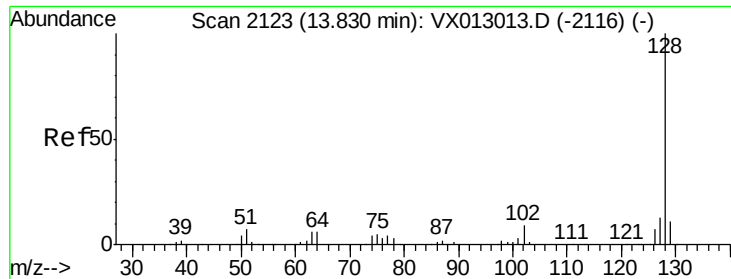
MMDadoda
 10/16/2019 9:57:54 AM



#94
 Hexachlorobutadiene
 Concen: 0.946 ug/l
 RT: 13.77 min Scan# 2114
 Delta R.T. -0.01 min
 Lab File: VX013072.D
 Acq: 15 Oct 2019 12:58

Tgt Ion	Ratio	Lower	Upper
225	100		
223	69.1	31.1	93.2
227	62.3	32.3	96.9





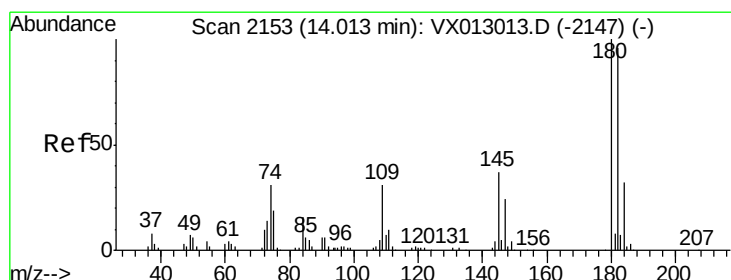
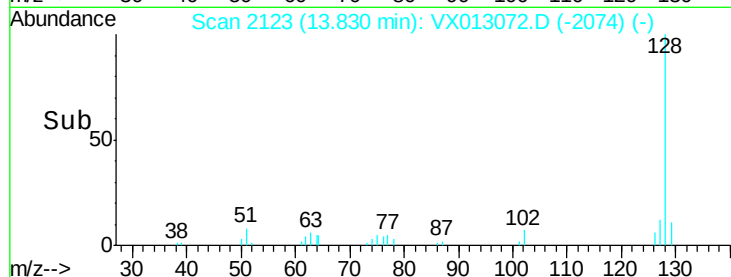
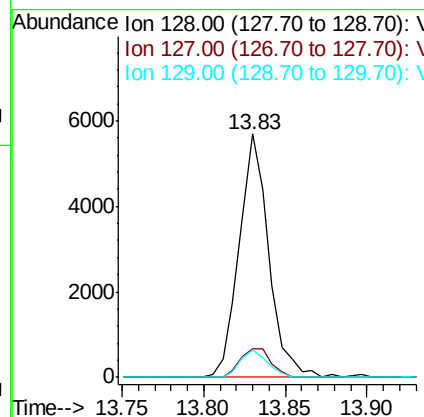
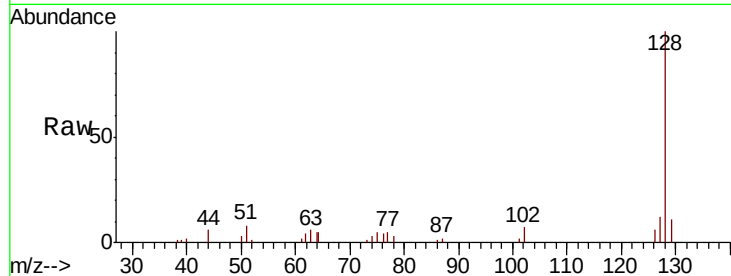
#95
Naphthalene
Concen: 0.965 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. -0.00 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.2	15.4
129	10.3	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
10/16/2019 9:57:54 AM



#96
1,2,3-Trichlorobenzene
Concen: 1.056 ug/l
RT: 14.02 min Scan# 2154
Delta R.T. 0.01 min
Lab File: VX013072.D
Acq: 15 Oct 2019 12:58

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.7	47.5	142.5
145	33.5	17.4	52.3

