

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX101019\
 Data File : VX013002.D
 Acq On : 10 Oct 2019 17:40
 Operator : JC/SP
 Sample : K5111-07 0.75PPB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Manual Integrations
 APPROVED

MMDadoda
 10/14/2019 2:47:52 PM

Quant Time: Oct 11 09:46:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 11 09:36:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	159118	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	274099	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	243648	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	103786	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.05	65	100887	50.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.46%	
35) Dibromofluoromethane	5.49	113	75527	48.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.02%	
50) Toluene-d8	8.71	98	292183	47.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.24%	
62) 4-Bromofluorobenzene	11.14	95	104797	43.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.92%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.19	85	910	0.561	ug/l	82
3) Chloromethane	1.32	50	1285	0.728	ug/l #	77
4) Vinyl Chloride	1.40	62	1284	0.705	ug/l #	86
5) Bromomethane	1.64	94	951	1.256	ug/l	99
6) Chloroethane	1.72	64	2261	2.108	ug/l #	87
7) Trichlorofluoromethane	1.92	101	1789	0.728	ug/l #	81
8) Diethyl Ether	2.19	74	818	0.824	ug/l	78
9) 1,1,2-Trichlorotrifluoroet	2.37	101	1119	0.703	ug/l	92
10) Methyl Iodide	2.50	142	751	0.480	ug/l #	82
11) Tert butyl alcohol	3.01	59	4951	9.391	ug/l #	82
12) 1,1-Dichloroethene	2.36	96	1017	0.632	ug/l	90
13) Acrolein	2.28	56	1320	3.523	ug/l	98
14) Allyl chloride	2.72	41	1822	0.636	ug/l	98
15) Acrylonitrile	3.13	53	3320	3.323	ug/l	97
16) Acetone	2.43	43	3897	3.718	ug/l #	87
17) Carbon Disulfide	2.56	76	2712	0.591	ug/l #	95
18) Methyl Acetate	2.76	43	1835	0.739	ug/l	96
19) Methyl tert-butyl Ether	3.19	73	3804	0.685	ug/l #	90
20) Methylene Chloride	2.85	84	1712	0.889	ug/l	92
21) trans-1,2-Dichloroethene	3.16	96	1334	0.774	ug/l #	78
22) Diisopropyl ether	3.85	45	3796	0.692	ug/l #	82
23) Vinyl Acetate	3.81	43	13690	2.890	ug/l	100
24) 1,1-Dichloroethane	3.69	63	2159	0.699	ug/l #	92
25) 2-Butanone	4.68	43	4530	3.115	ug/l	96
26) 2,2-Dichloropropane	4.57	77	1488	0.573	ug/l	86
27) cis-1,2-Dichloroethene	4.59	96	1559	0.785	ug/l	99
28) Bromochloromethane	5.00	49	730	0.826	ug/l #	85
29) Tetrahydrofuran	5.12	42	3408	3.808	ug/l #	82
30) Chloroform	5.19	83	2564m	0.809	ug/l	
31) Cyclohexane	5.57	56	2156	0.747	ug/l #	75
32) 1,1,1-Trichloroethane	5.48	97	1958	0.730	ug/l #	49
36) 1,1-Dichloropropene	5.79	75	1746	0.725	ug/l	98
37) Ethyl Acetate	4.83	43	1819	0.675	ug/l #	79
38) Carbon Tetrachloride	5.78	117	1673	0.713	ug/l #	91

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101019\
 Data File : VX013002.D
 Acq On : 10 Oct 2019 17:40
 Operator : JC/SP
 Sample : K5111-07 0.75PPB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Manual Integrations
 APPROVED

MMDadoda
 10/14/2019 2:47:52 PM

Quant Time: Oct 11 09:46:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 11 09:36:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	7.47	83	1957	0.670	ug/l #	86
40) Benzene	6.14	78	4847	0.681	ug/l	100
41) Methacrylonitrile	5.04	41	1078	0.728	ug/l #	65
42) 1,2-Dichloroethane	6.19	62	2025	0.793	ug/l	100
43) Isopropyl Acetate	6.44	43	2843	0.657	ug/l #	92
44) Trichloroethene	7.21	130	1369	0.694	ug/l	85
45) 1,2-Dichloropropane	7.51	63	1194	0.658	ug/l	100
46) Dibromomethane	7.67	93	705	0.583	ug/l #	84
47) Bromodichloromethane	7.89	83	1470	0.623	ug/l	97
48) Methyl methacrylate	7.77	41	1142	0.542	ug/l	96
49) 1,4-Dioxane	7.74	88	628	12.324	ug/l #	87
51) 4-Methyl-2-Pentanone	8.64	43	8383	3.109	ug/l	97
52) Toluene	8.78	92	3011	0.661	ug/l	99
53) t-1,3-Dichloropropene	9.04	75	1242	0.476	ug/l	91
54) cis-1,3-Dichloropropene	8.43	75	1682	0.580	ug/l #	84
55) 1,1,2-Trichloroethane	9.21	97	1225	0.680	ug/l #	87
56) Ethyl methacrylate	9.18	69	1663	0.570	ug/l	91
57) 1,3-Dichloropropane	9.37	76	2127	0.682	ug/l	91
58) 2-Chloroethyl Vinyl ether	8.31	63	3874	2.926	ug/l	96
59) 2-Hexanone	9.49	43	6017	2.866	ug/l	100
60) Dibromochloromethane	9.58	129	925	0.524	ug/l	95
61) 1,2-Dibromoethane	9.67	107	1084	0.572	ug/l	98
64) Tetrachloroethene	9.33	164	1280	0.757	ug/l #	82
65) Chlorobenzene	10.13	112	3214	0.664	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.22	131	1071	0.638	ug/l #	60
67) Ethyl Benzene	10.25	91	5209	0.606	ug/l	96
68) m/p-Xylenes	10.36	106	3776	1.176	ug/l	86
69) o-Xylene	10.70	106	1850	0.591	ug/l	93
70) Styrene	10.71	104	2884	0.542	ug/l	98
71) Bromoform	10.85	173	550	0.455	ug/l #	73
73) Isopropylbenzene	11.01	105	4552	0.597	ug/l	94
74) N-amyl acetate	10.90	43	1812	0.551	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.26	83	1590	0.626	ug/l	92
76) 1,2,3-Trichloropropane	11.29	75	1574m	0.684	ug/l	
77) Bromobenzene	11.25	156	1172	0.652	ug/l	90
78) n-propylbenzene	11.35	91	5178	0.617	ug/l	98
79) 2-Chlorotoluene	11.42	91	3560	0.675	ug/l	97
80) 1,3,5-Trimethylbenzene	11.50	105	4266	0.670	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.07	75	286m	0.352	ug/l	
82) 4-Chlorotoluene	11.51	91	3890	0.643	ug/l	100
83) tert-Butylbenzene	11.77	119	3924	0.631	ug/l	97
84) 1,2,4-Trimethylbenzene	11.80	105	3610	0.559	ug/l	98
85) sec-Butylbenzene	11.94	105	4312	0.599	ug/l	99
86) p-Isopropyltoluene	12.06	119	3640	0.545	ug/l	84
87) 1,3-Dichlorobenzene	12.03	146	2191	0.656	ug/l	98
88) 1,4-Dichlorobenzene	12.09	146	2493m	0.737	ug/l	
89) n-Butylbenzene	12.39	91	2933	0.523	ug/l	99
90) Hexachloroethane	12.59	117	587	0.543	ug/l	83
91) 1,2-Dichlorobenzene	12.39	146	2169	0.663	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	12.99	75	299	0.503	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101019\
Data File : VX013002.D
Acq On : 10 Oct 2019 17:40
Operator : JC/SP
Sample : K5111-07 0.75PPB
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

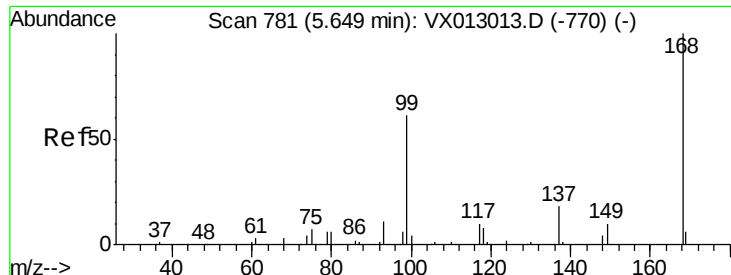
Manual Integrations
APPROVED

MMDadoda
10/14/2019 2:47:52 PM

Quant Time: Oct 11 09:46:08 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 11 09:36:38 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.64	180	1150	0.561	ug/l	95
94) Hexachlorobutadiene	13.78	225	613	0.648	ug/l	94
95) Naphthalene	13.83	128	3398	0.478	ug/l	96
96) 1,2,3-Trichlorobenzene	14.01	180	1142	0.539	ug/l	90

(#) = 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: VX013002.D

Acq: 10 Oct 2019 17:40

Instrument :

MSVOA_X

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:168 Resp: 159118

Ion Ratio Lower Upper

168 100

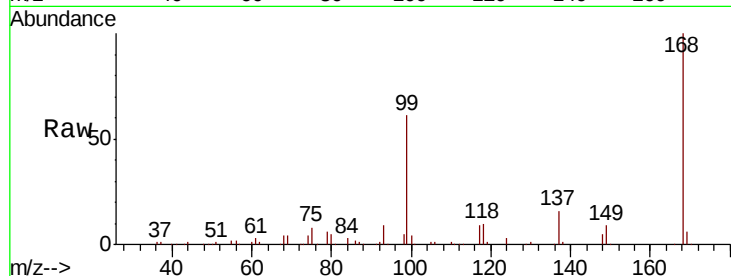
99 60.8 49.4 74.0

Manual Integrations

APPROVED

MMDadoda

10/14/2019 2:47:52 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

60000

50000

40000

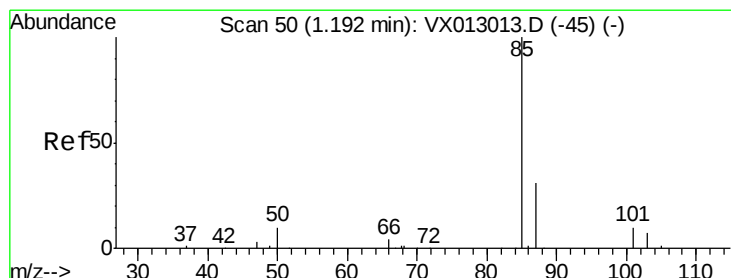
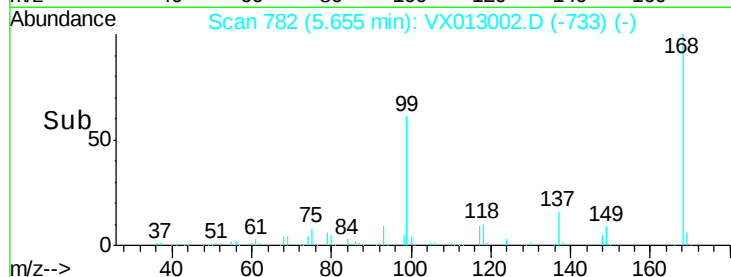
30000

20000

10000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.561 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX013002.D

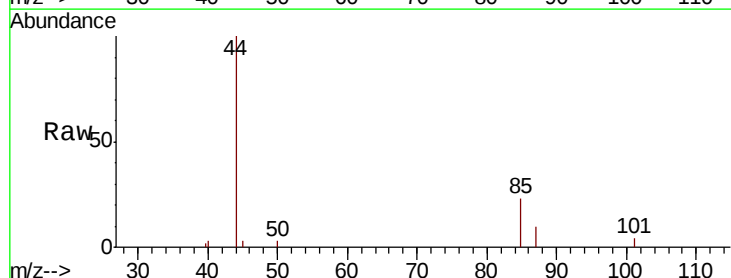
Acq: 10 Oct 2019 17:40

Tgt Ion: 85 Resp: 910

Ion Ratio Lower Upper

85 100

87 42.9 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

1000

800

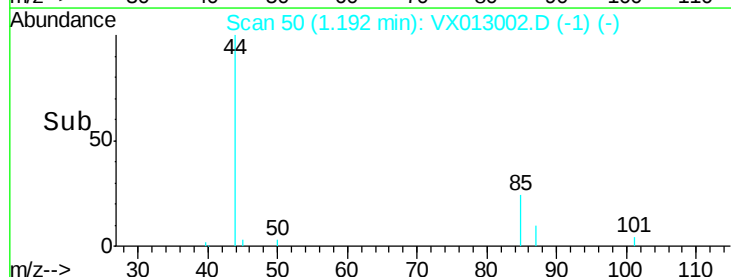
600

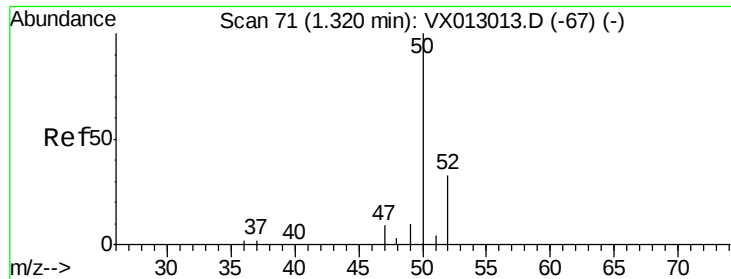
400

200

0

Time-->





#3

Chloromethane

Concen: 0.728 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX013002.D

Acq: 10 Oct 2019 17:40

Instrument :

MSVOA_X

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 50 Resp: 1285

Ion Ratio Lower Upper

50 100

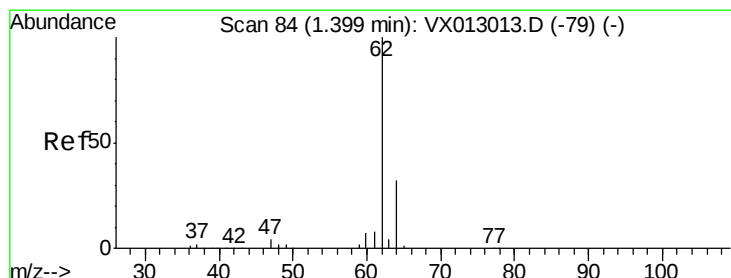
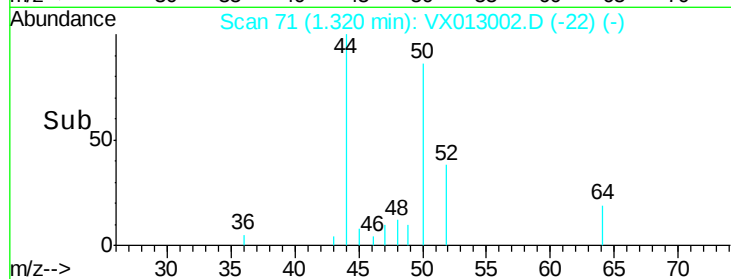
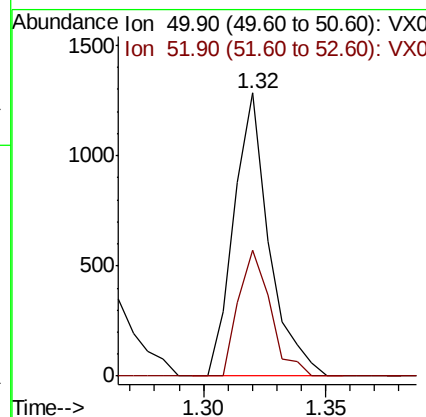
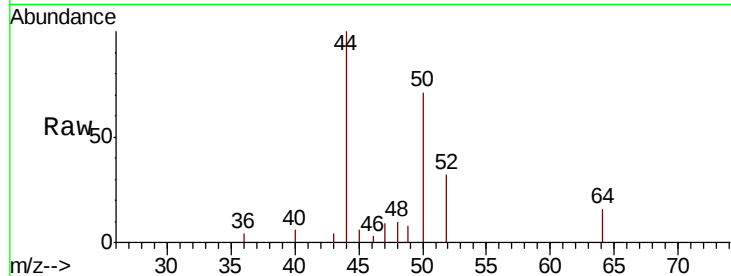
52 44.5 25.2 37.8#

Manual Integrations

APPROVED

MMDadoda

10/14/2019 2:47:52 PM



#4

Vinyl Chloride

Concen: 0.705 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX013002.D

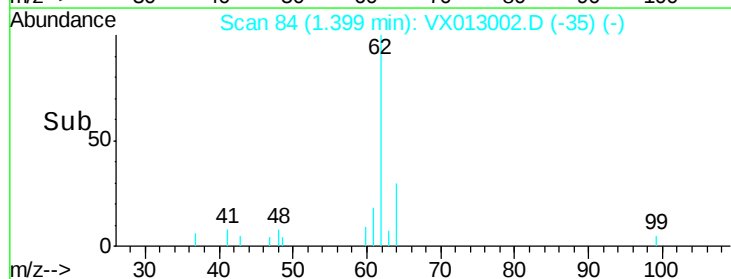
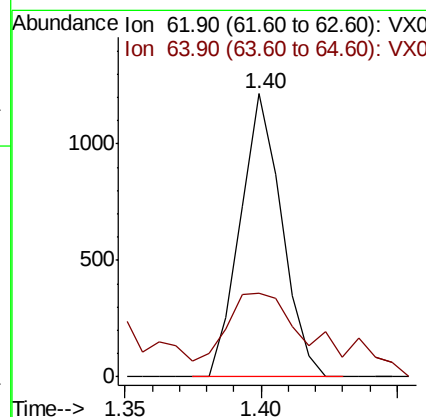
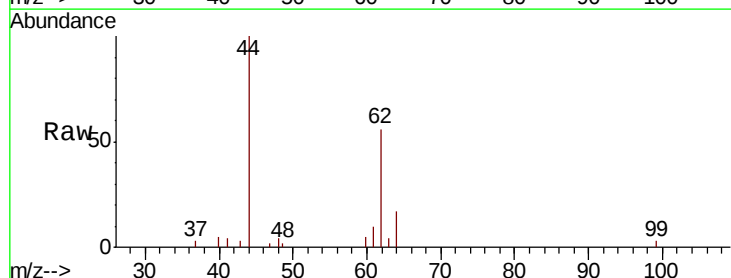
Acq: 10 Oct 2019 17:40

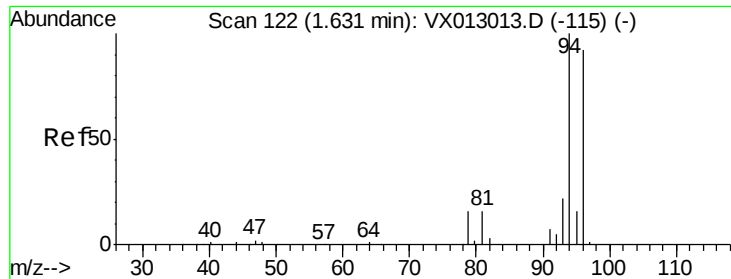
Tgt Ion: 62 Resp: 1284

Ion Ratio Lower Upper

62 100

64 24.0 25.3 37.9#





#5

Bromomethane

Concen: 1.256 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX013002.D

Acq: 10 Oct 2019 17:40

Instrument :

MSVOA_X

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 94 Resp: 951

Ion Ratio Lower Upper

94 100

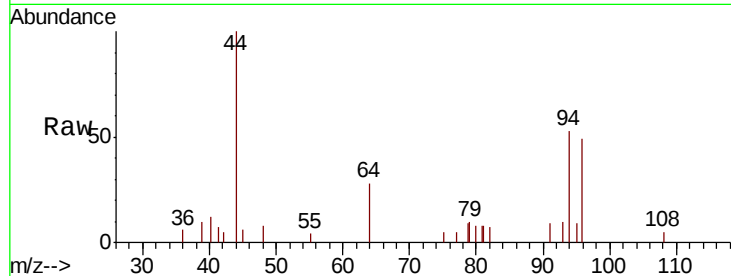
96 92.0 74.7 112.1

Manual Integrations

APPROVED

MMDadoda

10/14/2019 2:47:52 PM



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

600

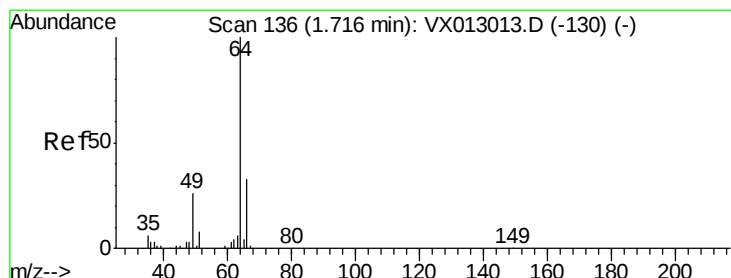
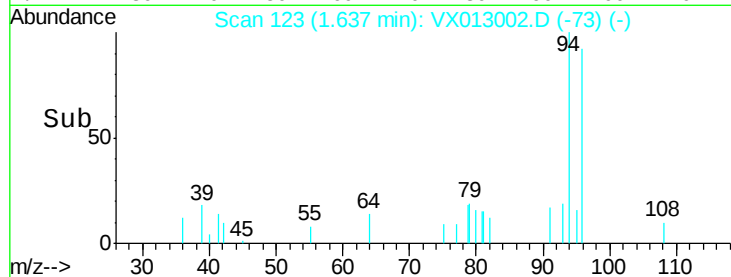
400

200

0

1.60 1.65

Time-->



#6

Chloroethane

Concen: 2.108 ug/l

RT: 1.72 min Scan# 137

Delta R.T. 0.01 min

Lab File: VX013002.D

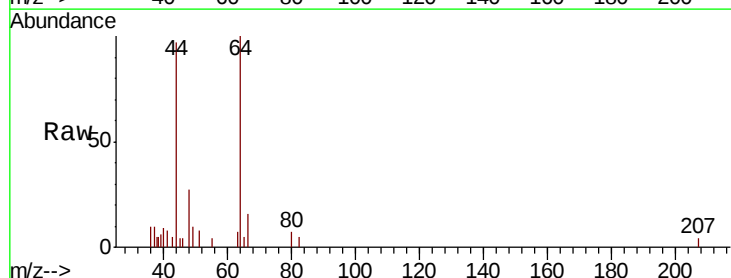
Acq: 10 Oct 2019 17:40

Tgt Ion: 64 Resp: 2261

Ion Ratio Lower Upper

64 100

66 24.9 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.72

1500

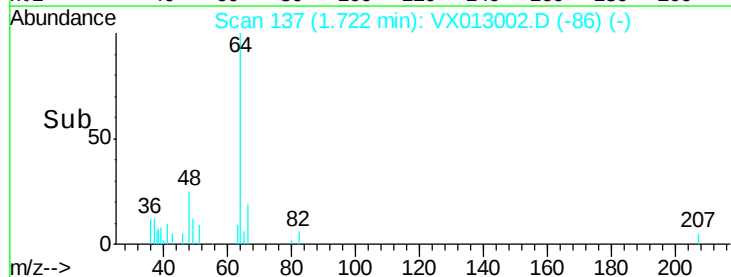
1000

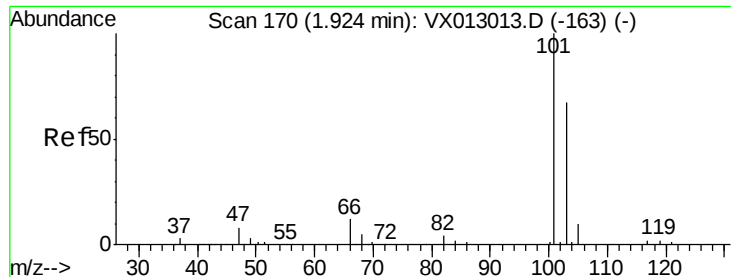
500

0

1.65 1.70 1.75 1.80

Time-->





#7

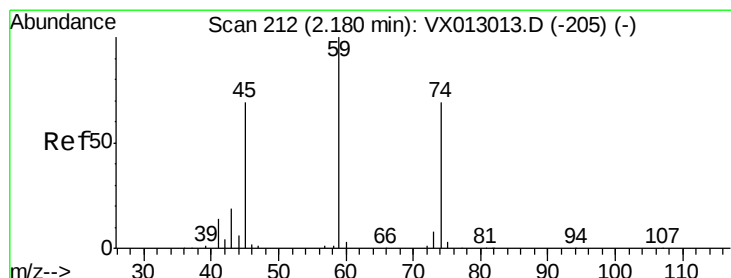
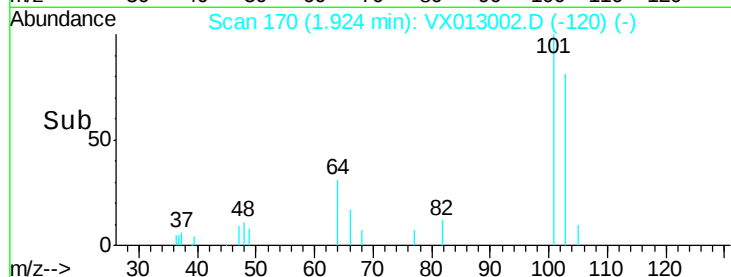
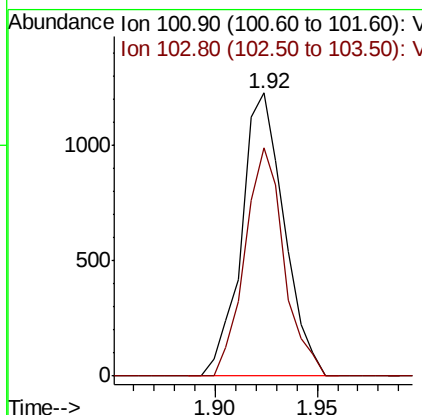
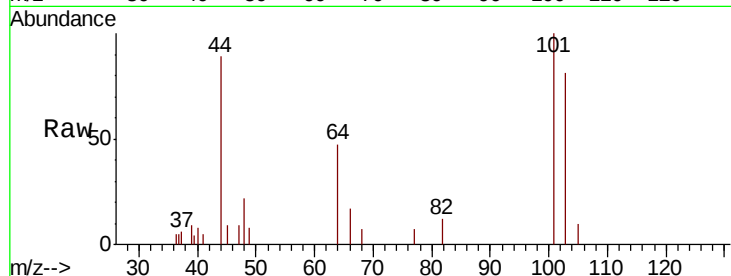
Trichlorofluoromethane
 Concen: 0.728 ug/l
 RT: 1.92 min Scan# 170
 Delta R.T. 0.01 min
 Lab File: VX013002.D
 Acq: 10 Oct 2019 17:40

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion:101 Resp: 1789
 Ion Ratio Lower Upper
 101 100
 103 80.8 52.5 78.7#

Manual Integrations
 APPROVED

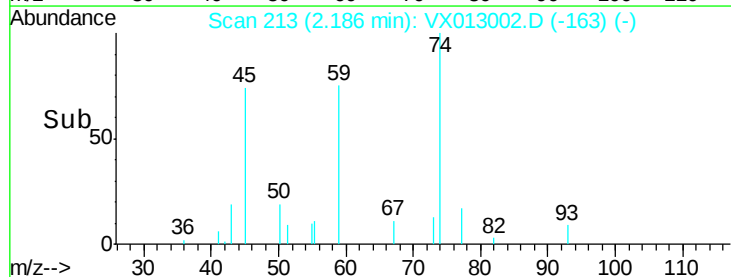
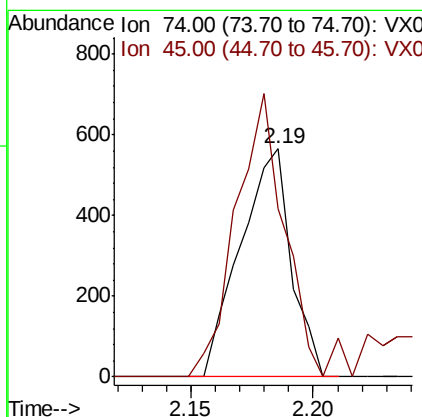
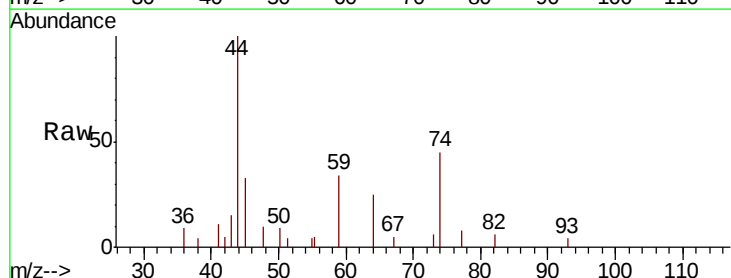
MMDadoda
 10/14/2019 2:47:52 PM

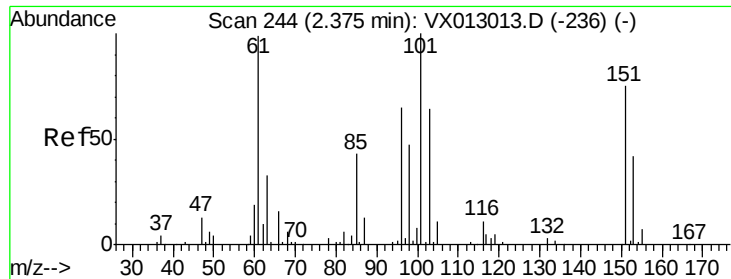


#8

Diethyl Ether
 Concen: 0.824 ug/l
 RT: 2.19 min Scan# 213
 Delta R.T. 0.01 min
 Lab File: VX013002.D
 Acq: 10 Oct 2019 17:40

Tgt Ion: 74 Resp: 818
 Ion Ratio Lower Upper
 74 100
 45 116.7 47.8 143.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.703 ug/l

RT: 2.37 min Scan# 243

Delta R.T. -0.01 min

Lab File: VX013002.D

Acq: 10 Oct 2019 17:40

Instrument :

MSVOA_X

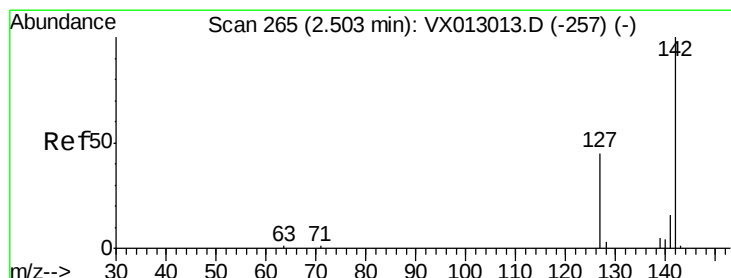
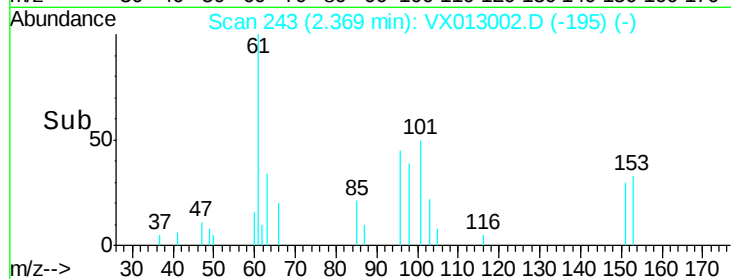
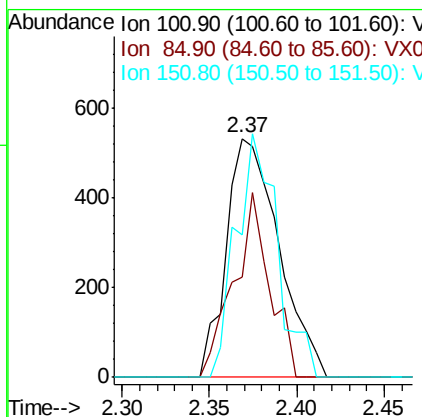
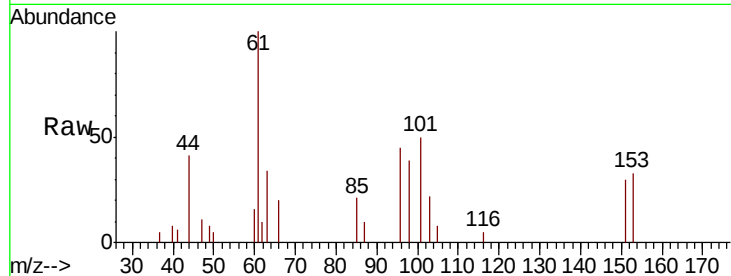
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	101	Resp:	1119
Ion Ratio	Lower	Upper	
101	100		
85	52.1	35.2	52.8
151	79.4	60.3	90.5

Manual Integrations
APPROVED

MMDadoda
10/14/2019 2:47:52 PM



#10

Methyl Iodide

Concen: 0.480 ug/l

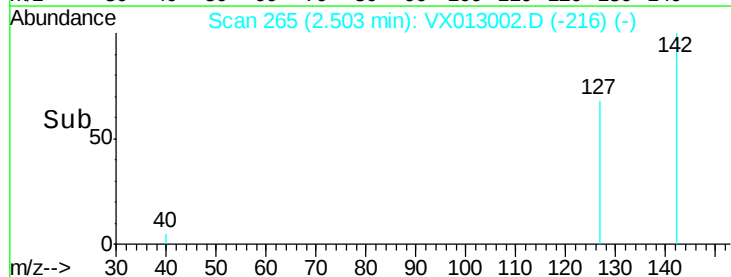
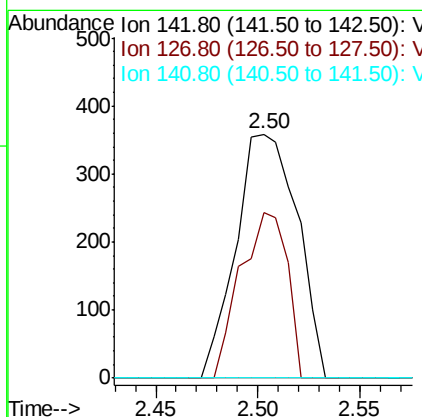
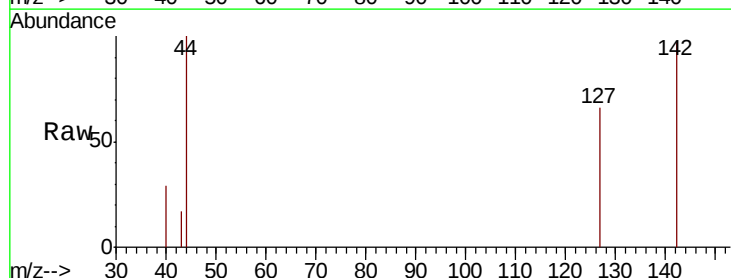
RT: 2.50 min Scan# 265

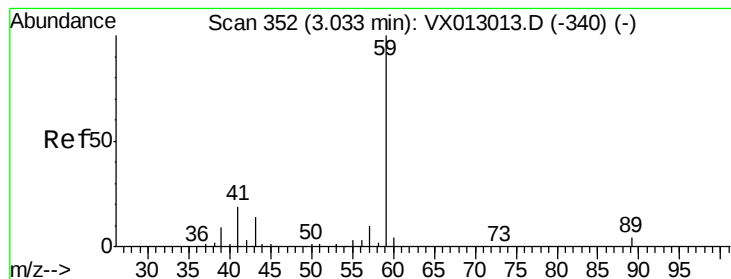
Delta R.T. 0.00 min

Lab File: VX013002.D

Acq: 10 Oct 2019 17:40

Tgt Ion:	142	Resp:	751
Ion Ratio	Lower	Upper	
142	100		
127	51.5	34.9	52.3
141	0.0	11.6	17.4#





#11

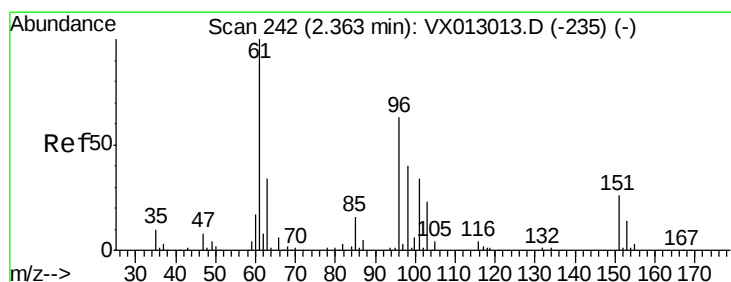
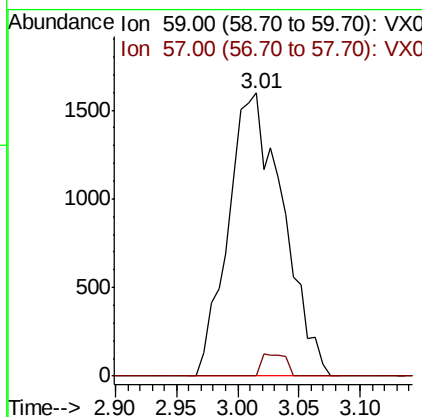
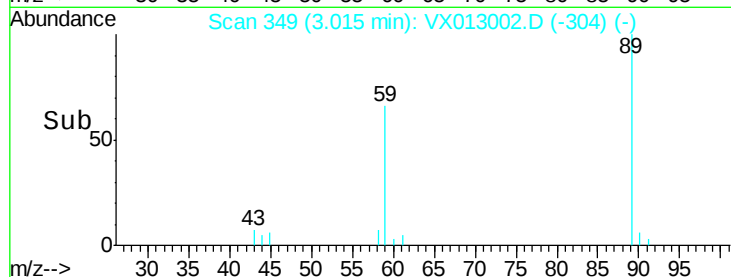
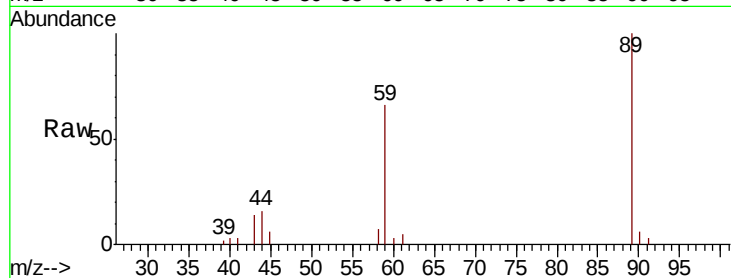
Tert butvl alcohol
Concen: 9.391 ug/l
RT: 3.01 min Scan# 349
Delta R.T. -0.02 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 59 Resp: 4951
Ion Ratio Lower Upper
59 100
57 3.5 8.3 12.5#

Manual Integrations
APPROVED

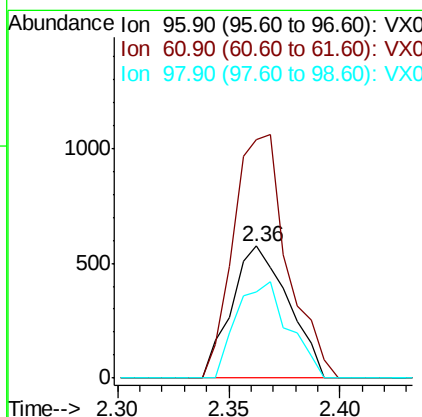
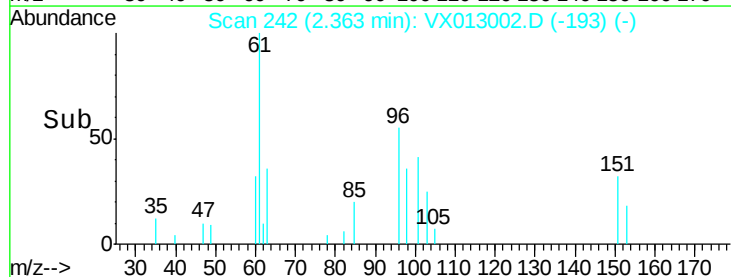
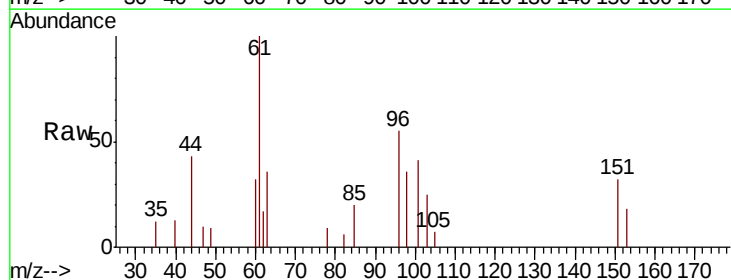
MMDadoda
10/14/2019 2:47:52 PM

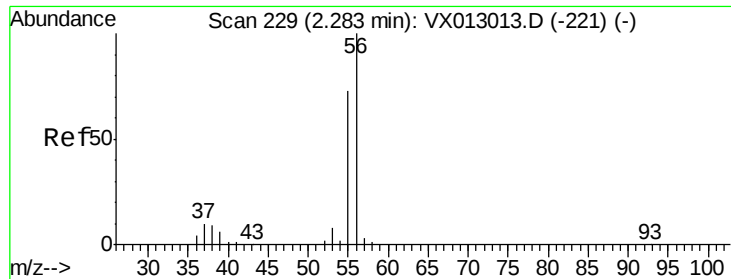


#12

1,1-Dichloroethene
Concen: 0.632 ug/l
RT: 2.36 min Scan# 242
Delta R.T. 0.00 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Tgt Ion: 96 Resp: 1017
Ion Ratio Lower Upper
96 100
61 181.5 132.2 198.4
98 65.8 50.5 75.7





#13

Acrolein

Concen: 3.523 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX013002.D

Acq: 10 Oct 2019 17:40

Instrument :

MSVOA_X

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 56 Resp: 1320

Ion Ratio Lower Upper

56 100

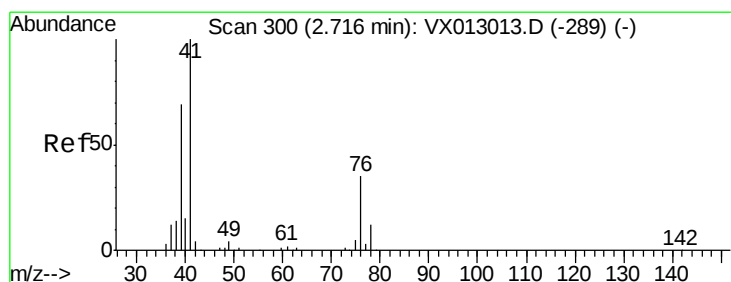
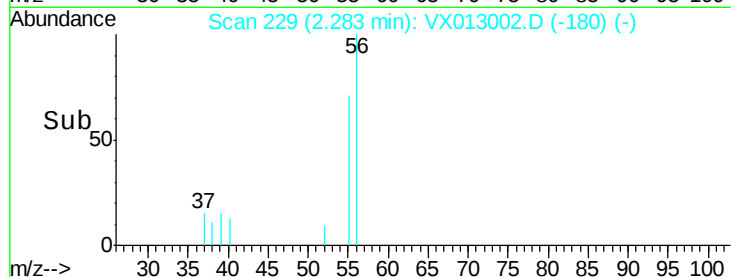
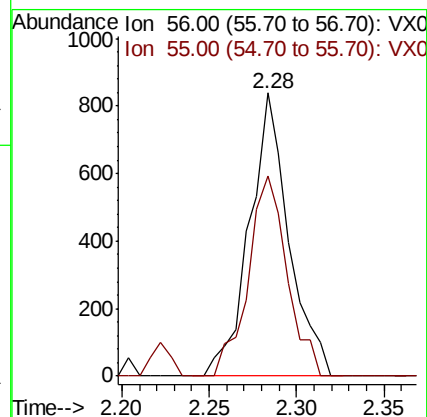
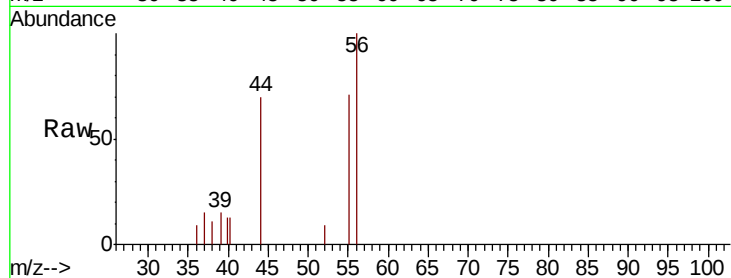
55 69.2 56.6 85.0

Manual Integrations

APPROVED

MMDadoda

10/14/2019 2:47:52 PM



#14

Allyl chloride

Concen: 0.636 ug/l

RT: 2.72 min Scan# 300

Delta R.T. 0.00 min

Lab File: VX013002.D

Acq: 10 Oct 2019 17:40

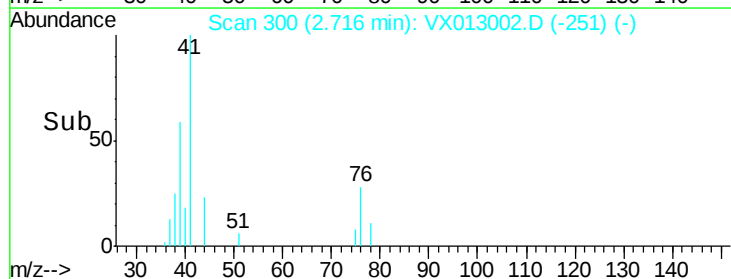
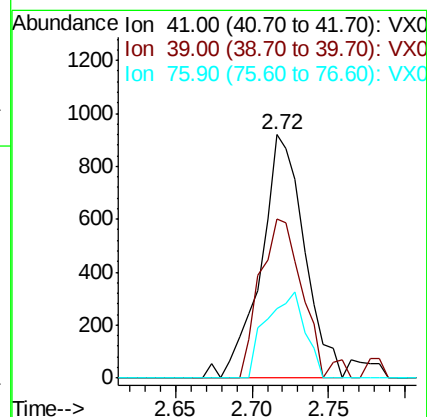
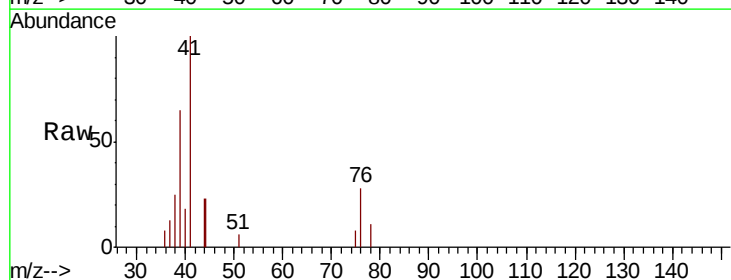
Tgt Ion: 41 Resp: 1822

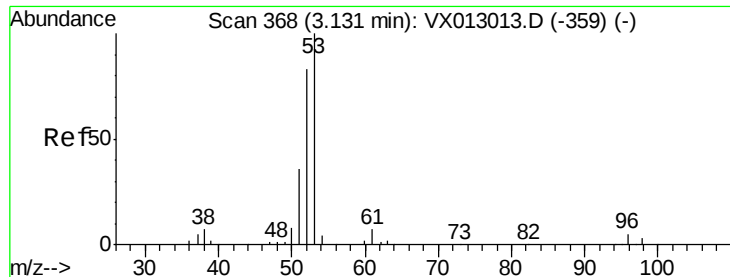
Ion Ratio Lower Upper

41 100

39 64.8 51.0 76.6

76 31.5 26.2 39.4





#15

Acrylonitrile

Concen: 3.323 ug/l

RT: 3.13 min Scan# 368

Delta R.T. -0.01 min

Lab File: VX013002.D

Acq: 10 Oct 2019 17:40

Instrument :

MSVOA_X

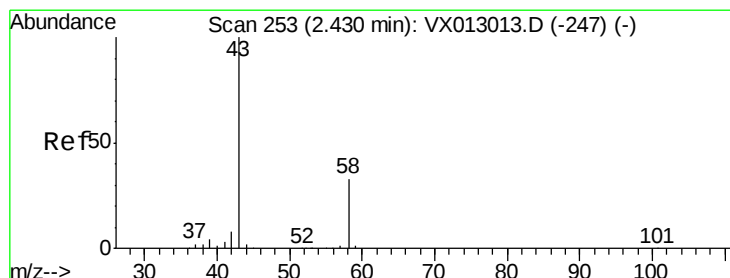
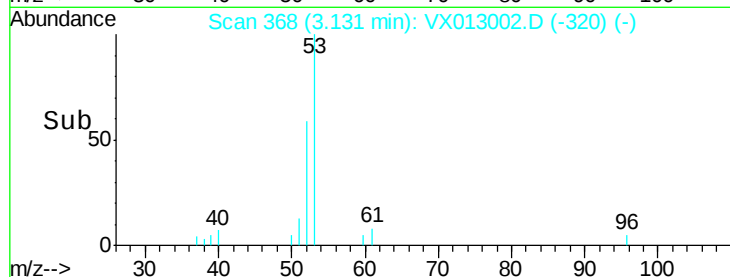
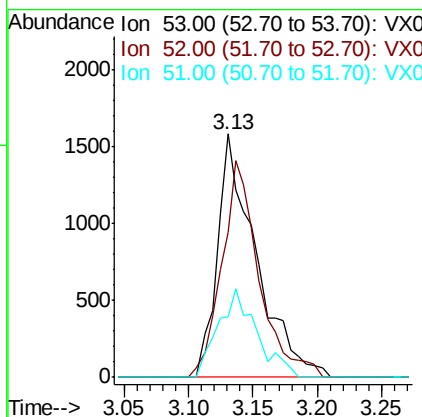
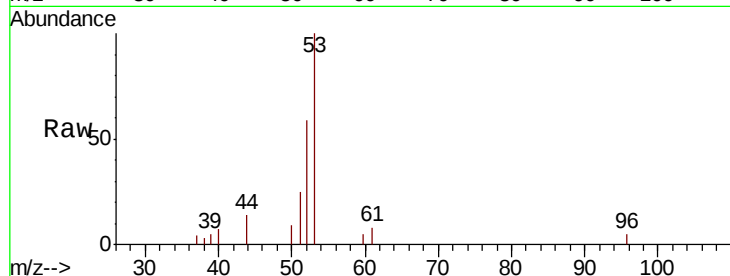
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	53	Resp:	3320
Ion	Ratio	Lower	Upper
53	100		
52	85.6	66.2	99.2
51	36.2	28.2	42.4

Manual Integrations
APPROVED

MMDadoda
10/14/2019 2:47:52 PM



#16

Acetone

Concen: 3.718 ug/l

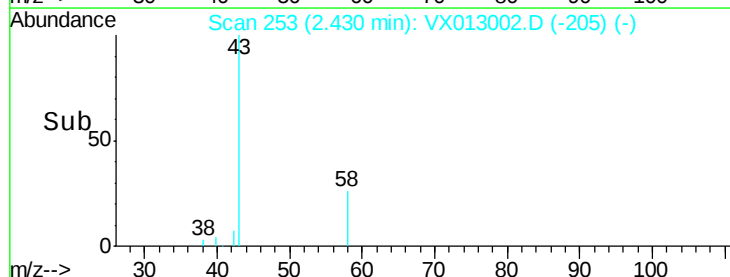
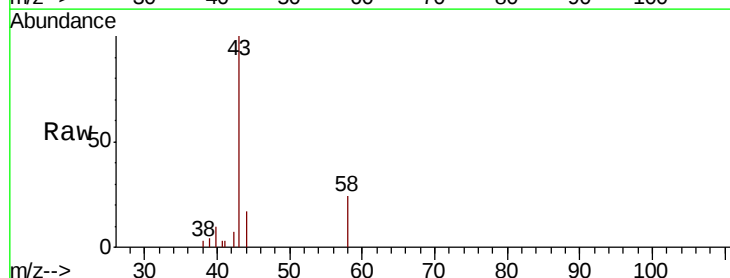
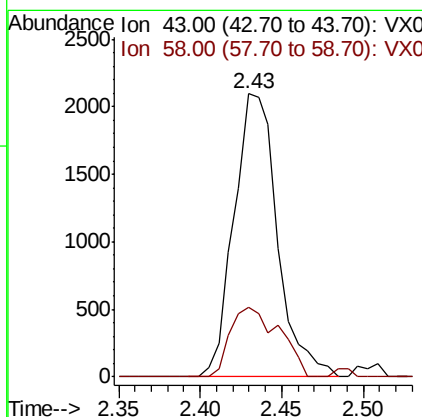
RT: 2.43 min Scan# 253

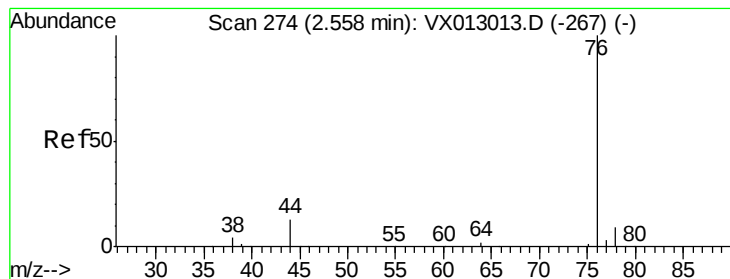
Delta R.T. -0.01 min

Lab File: VX013002.D

Acq: 10 Oct 2019 17:40

Tgt Ion:	43	Resp:	3897
Ion	Ratio	Lower	Upper
43	100		
58	24.5	25.4	38.2#





#17

Carbon Disulfide

Concen: 0.591 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.00 min

Lab File: VX013002.D

Acq: 10 Oct 2019 17:40

Instrument :

MSVOA_X

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 76 Resp: 2712

Ion Ratio Lower Upper

76 100

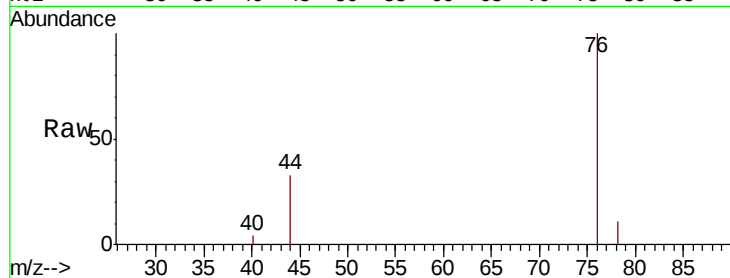
78 10.7 7.1 10.7#

Manual Integrations

APPROVED

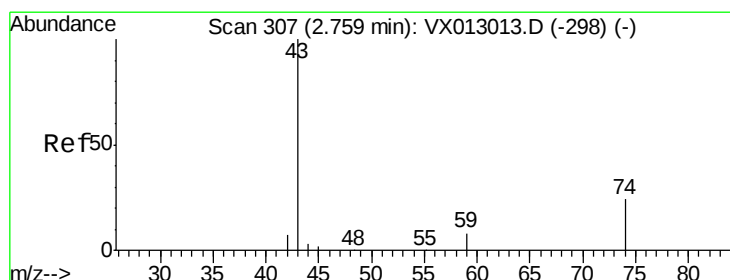
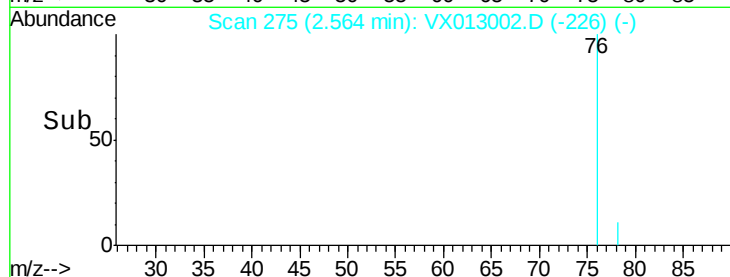
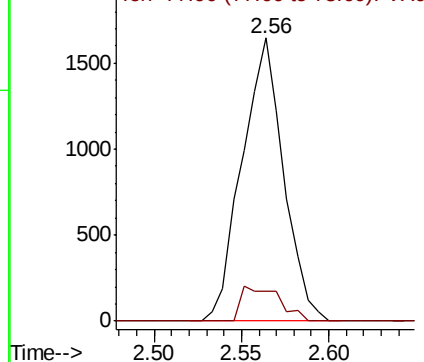
MMDadoda

10/14/2019 2:47:52 PM



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.739 ug/l

RT: 2.76 min Scan# 308

Delta R.T. 0.00 min

Lab File: VX013002.D

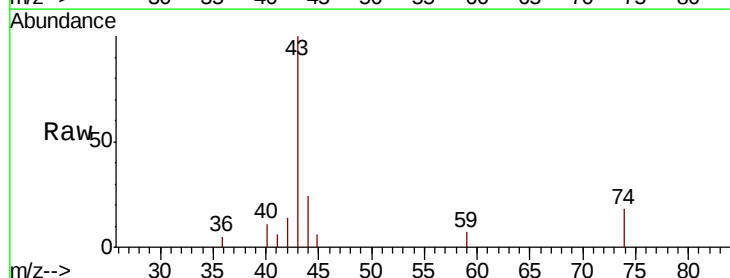
Acq: 10 Oct 2019 17:40

Tgt Ion: 43 Resp: 1835

Ion Ratio Lower Upper

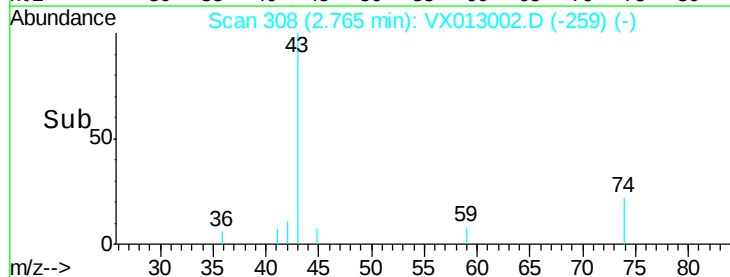
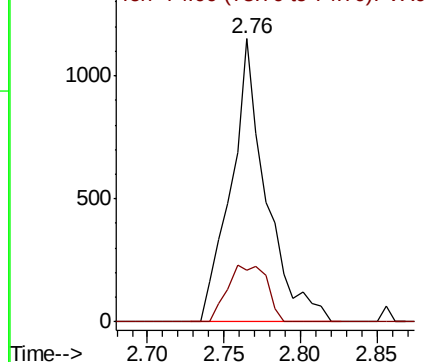
43 100

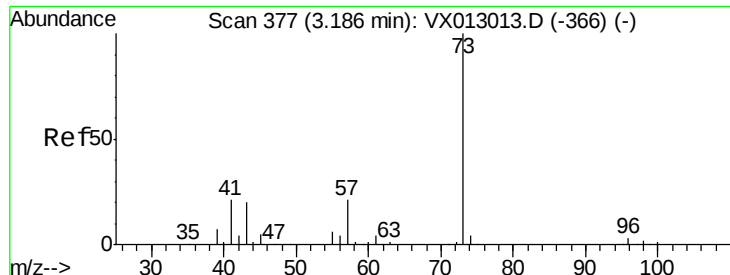
74 22.1 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





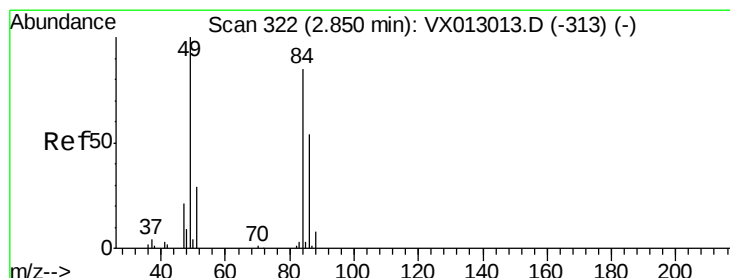
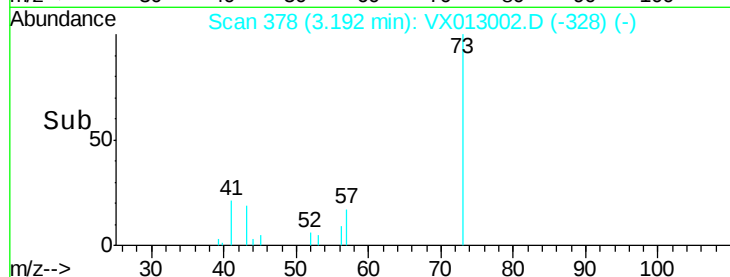
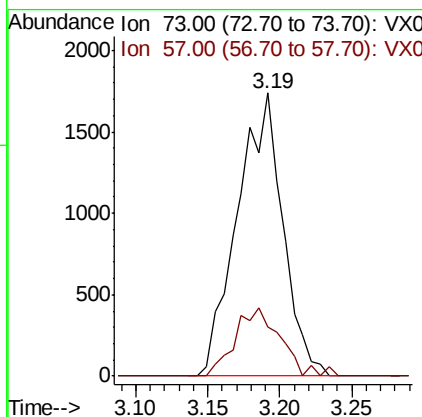
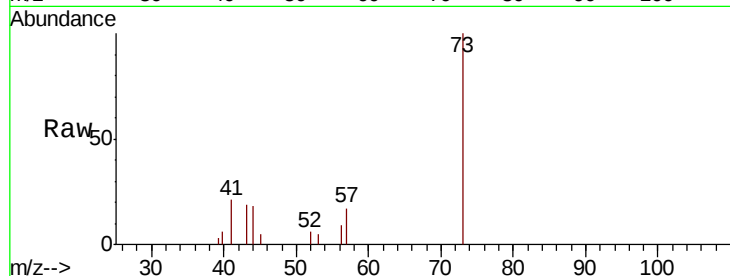
#19
Methvl tert-butvl Ether
Concen: 0.685 ug/l
RT: 3.19 min Scan# 378
Delta R.T. 0.01 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 73 Resp: 3804
Ion Ratio Lower Upper
73 100
57 17.5 17.8 26.6#

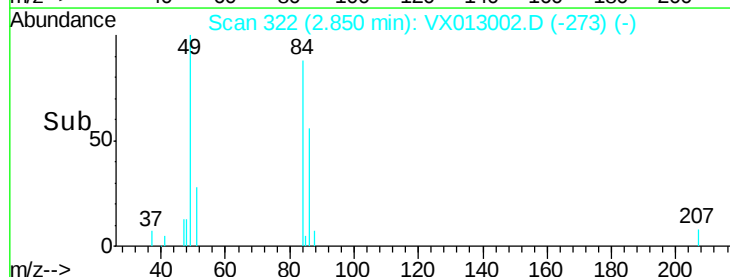
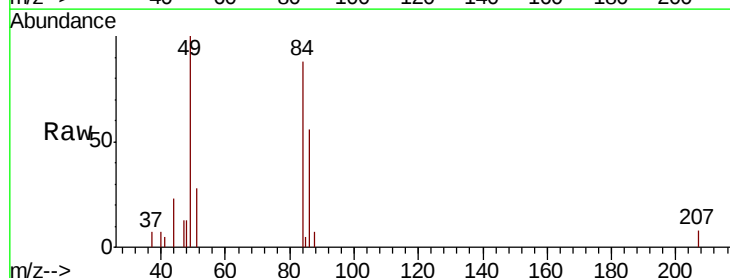
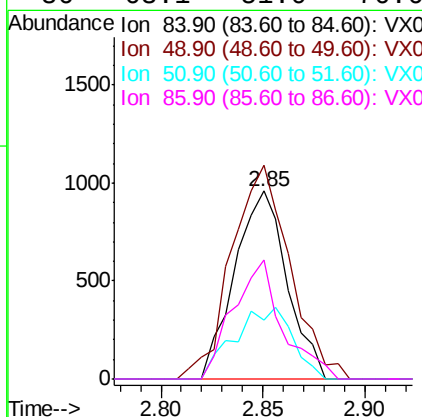
Manual Integrations
APPROVED

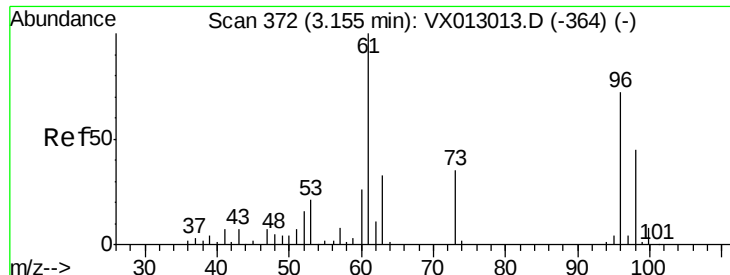
MMDadoda
10/14/2019 2:47:52 PM



#20
Methylene Chloride
Concen: 0.889 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Tgt Ion: 84 Resp: 1712
Ion Ratio Lower Upper
84 100
49 108.1 96.6 144.8
51 31.6 30.7 46.1
86 63.1 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 0.774 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX013002.D

Acq: 10 Oct 2019 17:40

Instrument :

MSVOA_X

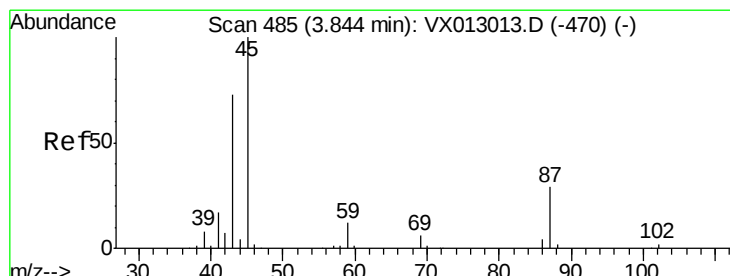
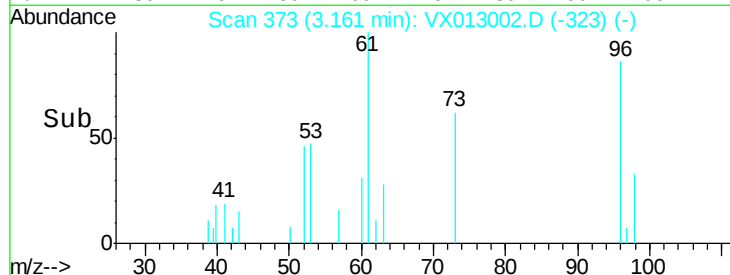
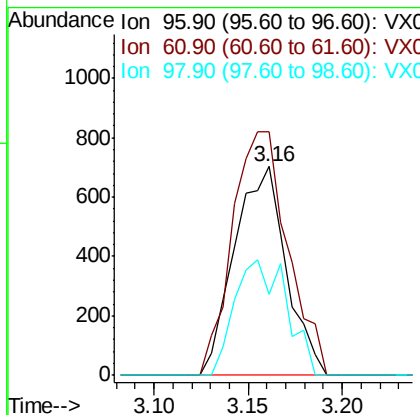
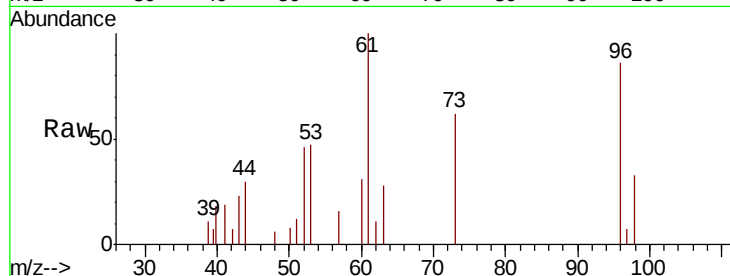
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	96	Resp:	1334
Ion	Ratio	Lower	Upper
96	100		
61	116.6	110.4	165.6
98	38.8	51.5	77.3#

Manual Integrations
APPROVED

MMDadoda
10/14/2019 2:47:52 PM



#22

Diisopropyl ether

Concen: 0.692 ug/l

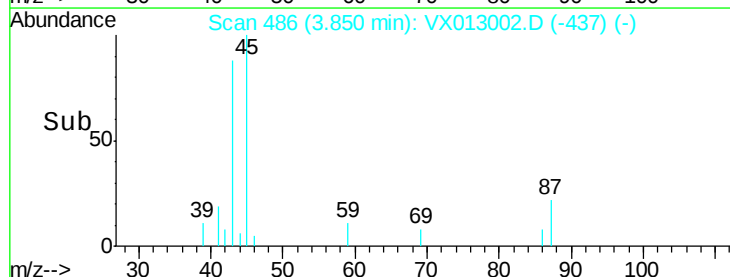
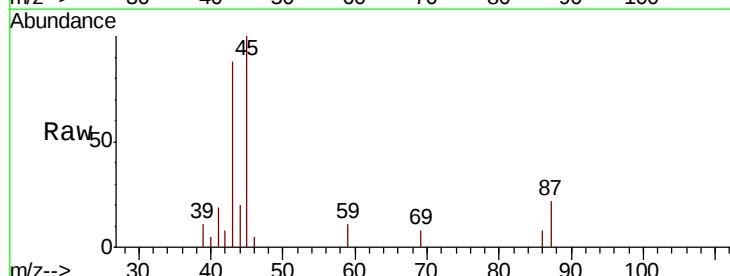
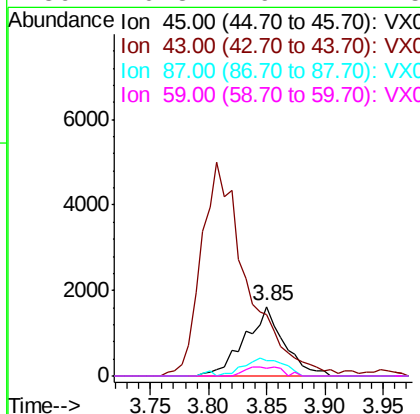
RT: 3.85 min Scan# 486

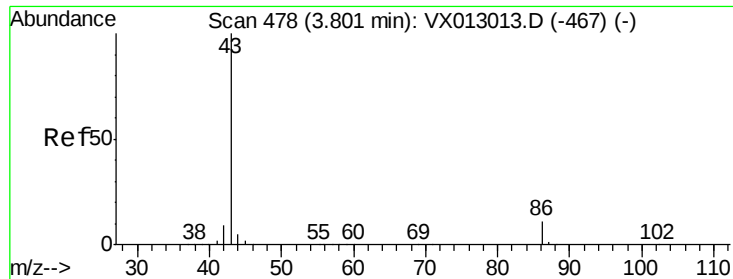
Delta R.T. 0.00 min

Lab File: VX013002.D

Acq: 10 Oct 2019 17:40

Tgt Ion:	45	Resp:	3796
Ion	Ratio	Lower	Upper
45	100		
43	83.2	51.4	77.0#
87	22.3	22.5	33.7#
59	10.8	9.7	14.5





#23

Vinyl Acetate

Concen: 2.890 ug/l

RT: 3.81 min Scan# 479

Delta R.T. 0.00 min

Lab File: VX013002.D

Acq: 10 Oct 2019 17:40

Instrument :

MSVOA_X

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 43 Resp: 13690

Ion Ratio Lower Upper

43 100

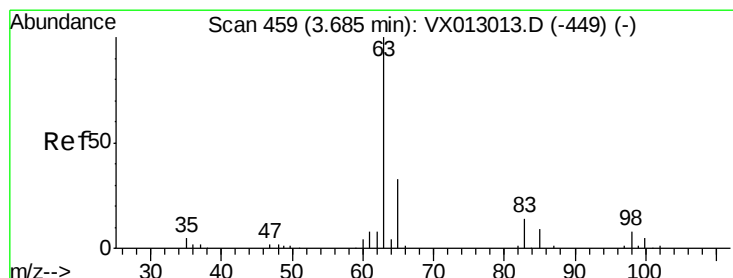
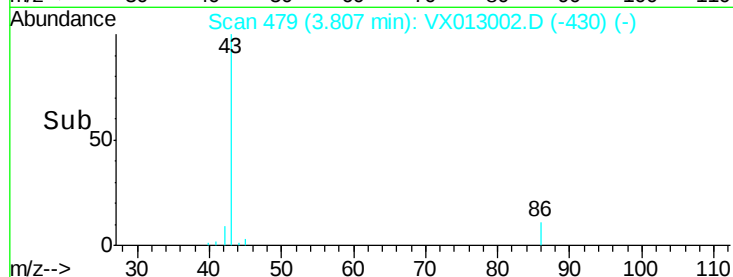
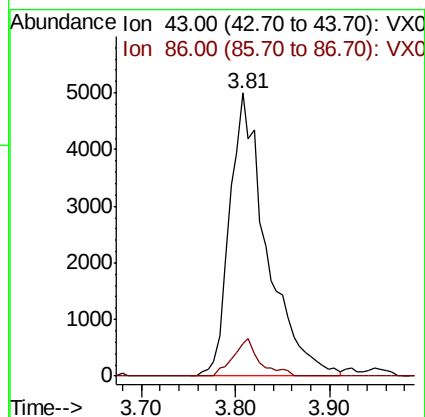
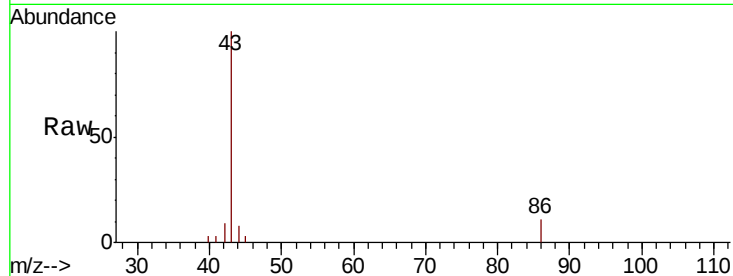
86 11.5 9.0 13.6

Manual Integrations

APPROVED

MMDadoda

10/14/2019 2:47:52 PM



#24

1,1-Dichloroethane

Concen: 0.699 ug/l

RT: 3.69 min Scan# 460

Delta R.T. 0.01 min

Lab File: VX013002.D

Acq: 10 Oct 2019 17:40

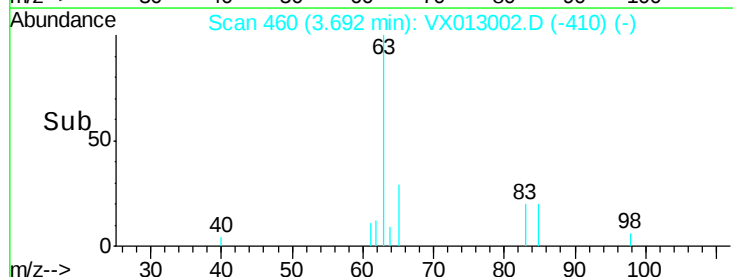
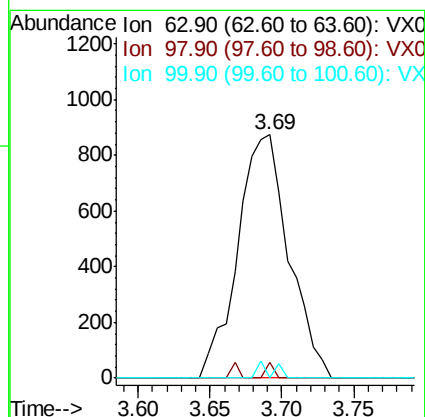
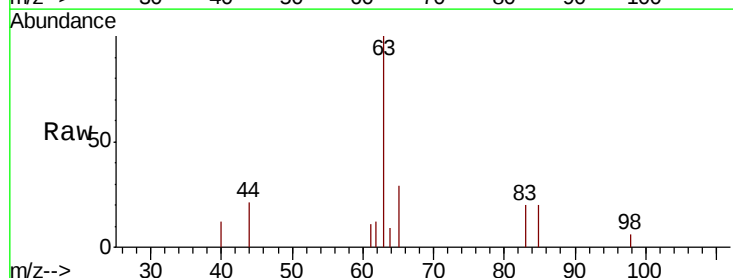
Tgt Ion: 63 Resp: 2159

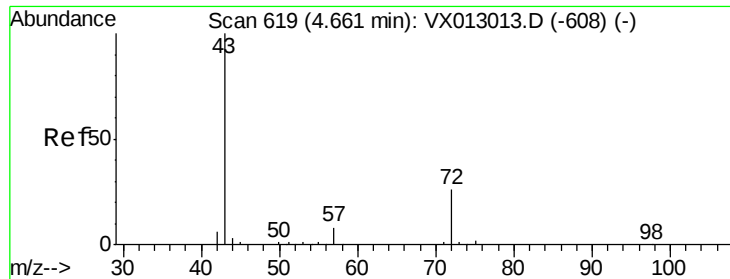
Ion Ratio Lower Upper

63 100

98 6.4 3.9 11.5

100 0.0 2.3 6.9#





#25

2-Butanone

Concen: 3.115 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX013002.D

Acq: 10 Oct 2019 17:40

Instrument :

MSVOA_X

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 43 Resp: 4530

Ion Ratio Lower Upper

43 100

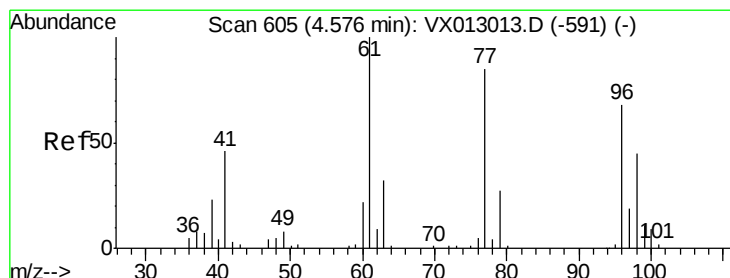
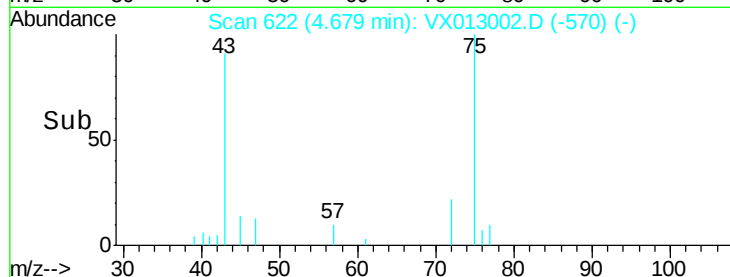
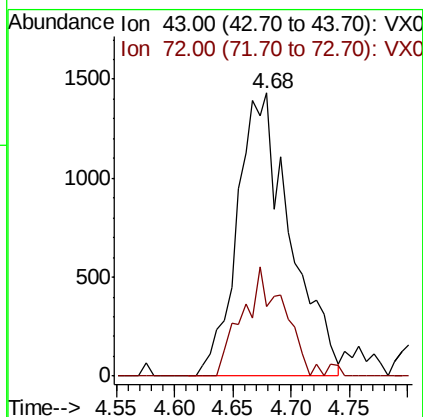
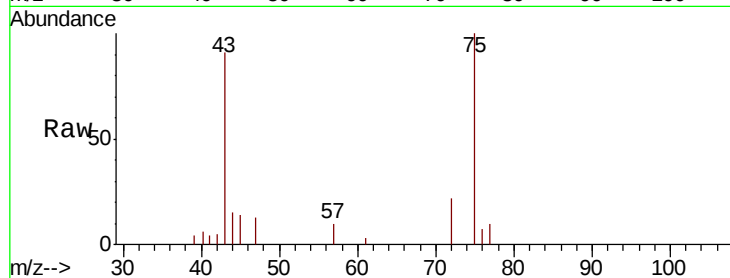
72 24.4 21.0 31.6

Manual Integrations

APPROVED

MMDadoda

10/14/2019 2:47:52 PM



#26

2,2-Dichloropropane

Concen: 0.573 ug/l

RT: 4.57 min Scan# 604

Delta R.T. -0.01 min

Lab File: VX013002.D

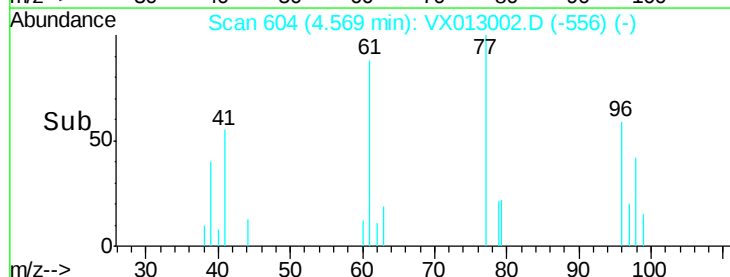
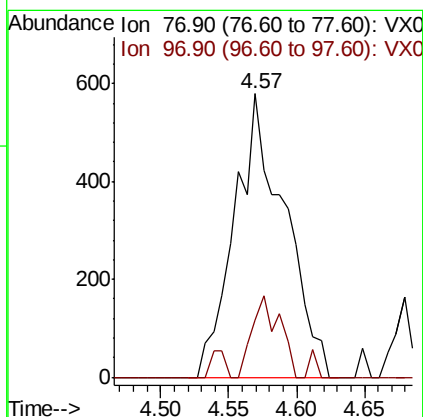
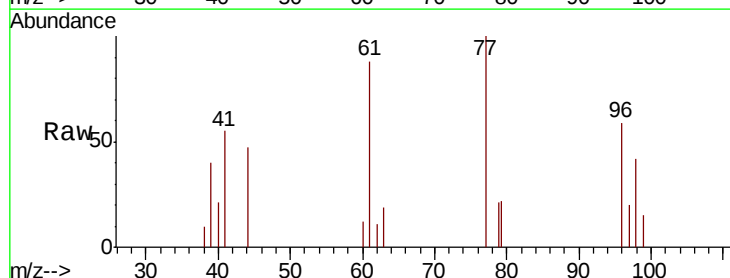
Acq: 10 Oct 2019 17:40

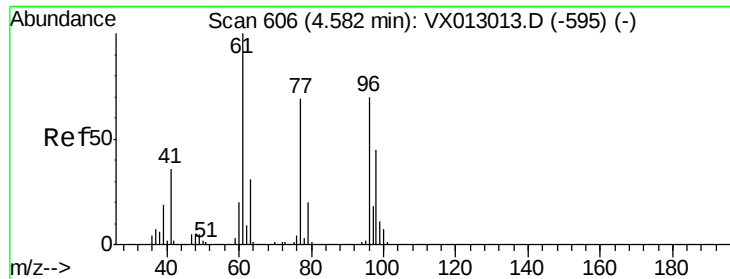
Tgt Ion: 77 Resp: 1488

Ion Ratio Lower Upper

77 100

97 15.7 11.3 33.9





#27

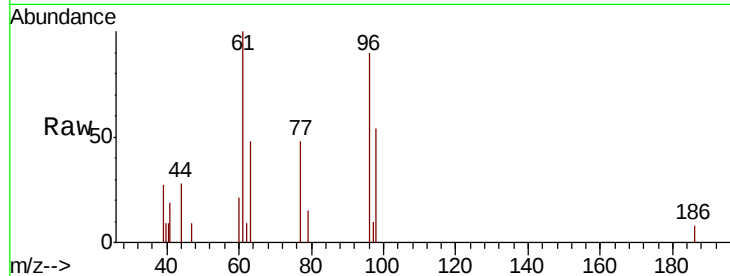
cis-1,2-Dichloroethene
Concen: 0.785 ug/l
RT: 4.59 min Scan# 608
Delta R.T. 0.01 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

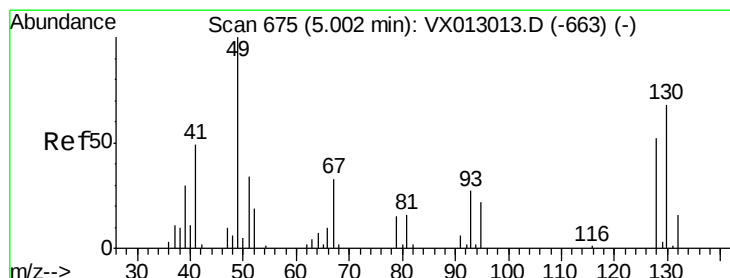
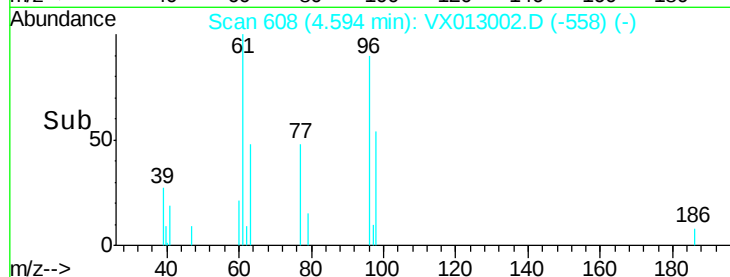
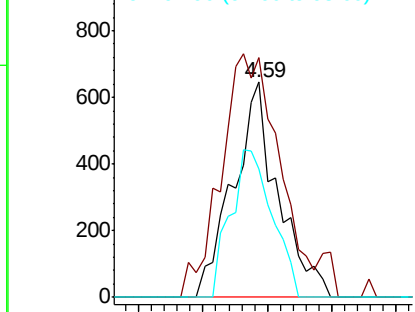
Tot Ion	Ratio	Lower	Upper
96	100		
61	147.0	0.0	290.6
98	64.0	0.0	128.8

Manual Integrations
APPROVED

MMDadoda
10/14/2019 2:47:52 PM



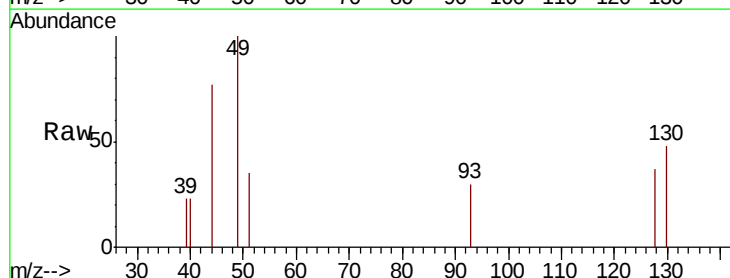
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



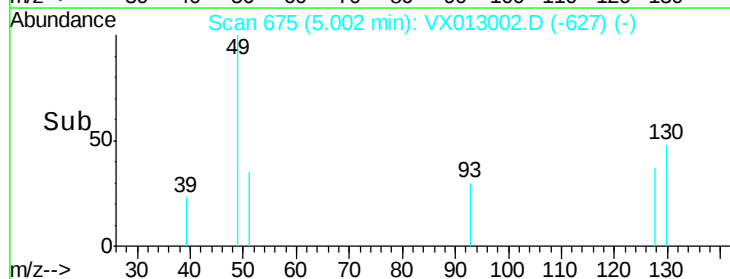
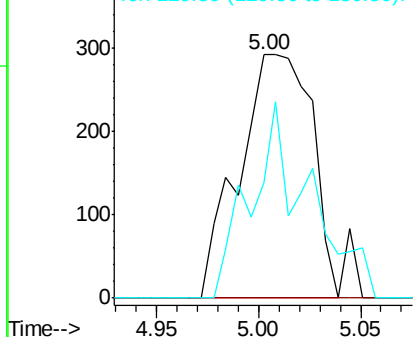
#28

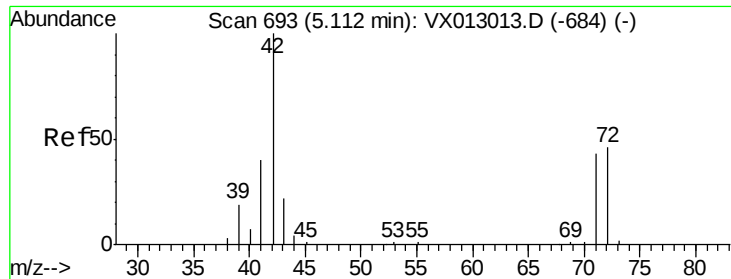
Bromochloromethane
Concen: 0.826 ug/l
RT: 5.00 min Scan# 675
Delta R.T. -0.01 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.2
130	64.7	62.1	93.1



Abundance Ion 48.90 (48.60 to 49.60): VX0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V





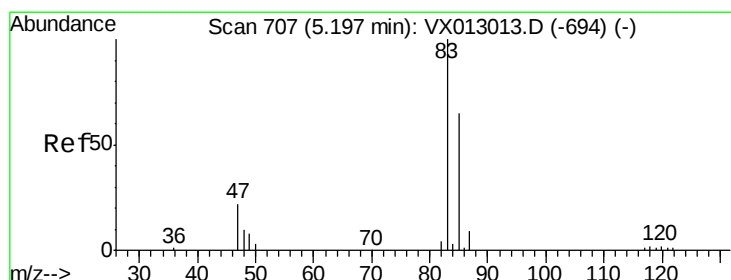
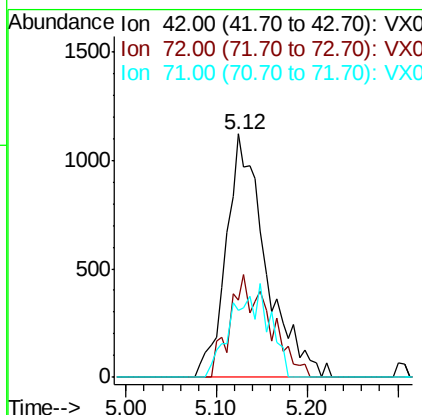
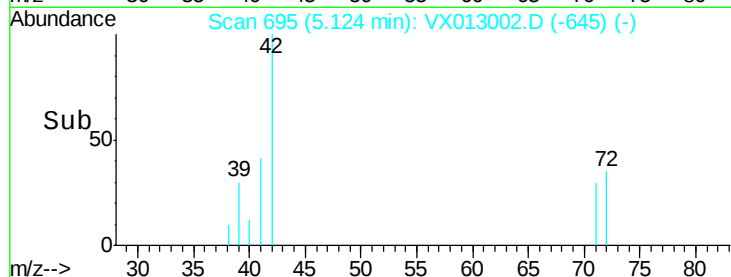
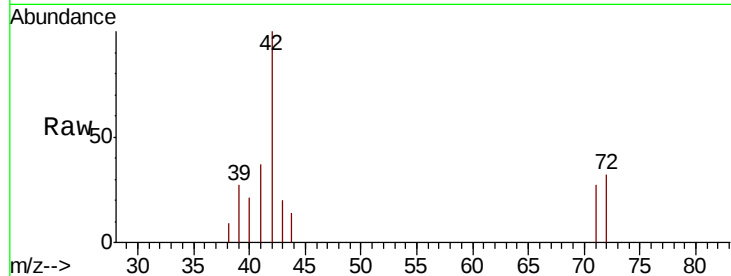
#29
Tetrahydrofuran
Concen: 3.808 ug/l
RT: 5.12 min Scan# 695
Delta R.T. 0.01 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.9	36.9	55.3
71	22.6	33.5	50.3

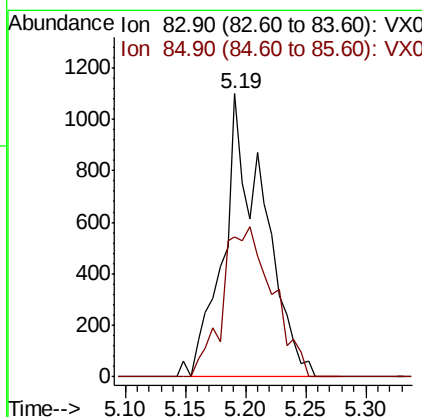
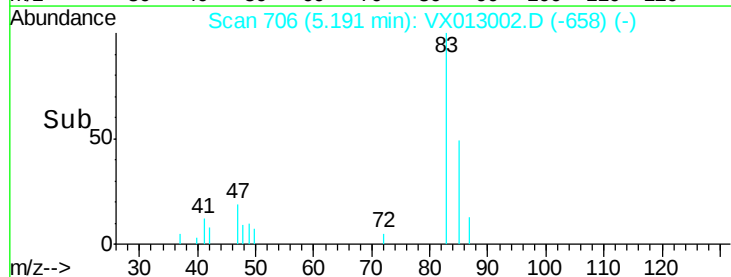
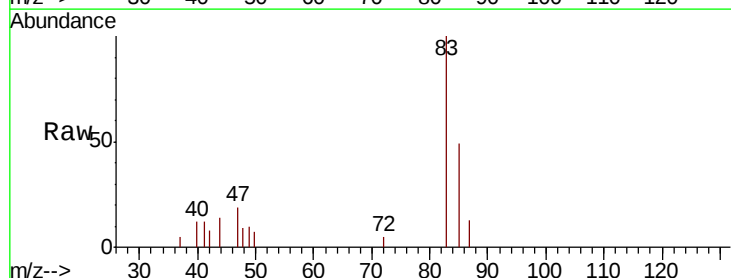
Manual Integrations
APPROVED

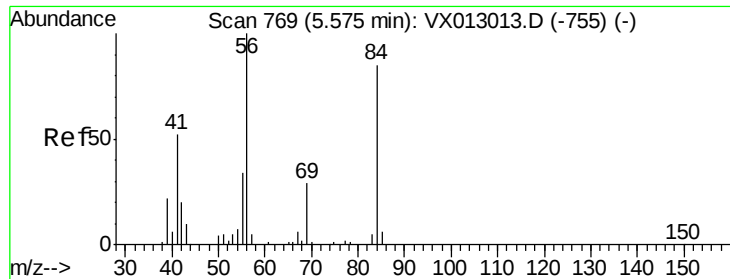
MMDadoda
10/14/2019 2:47:52 PM



#30
Chloroform
Concen: 0.809 ug/l m
RT: 5.19 min Scan# 706
Delta R.T. -0.01 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Tgt Ion	Ratio	Lower	Upper
83	100		
85	49.4	51.5	77.3





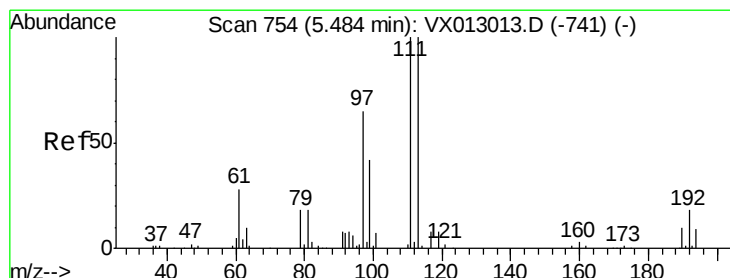
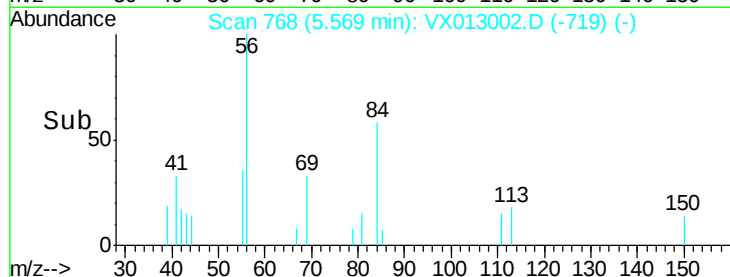
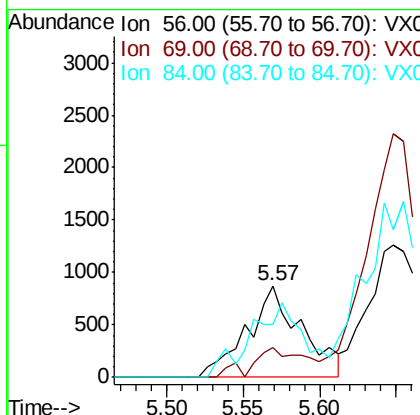
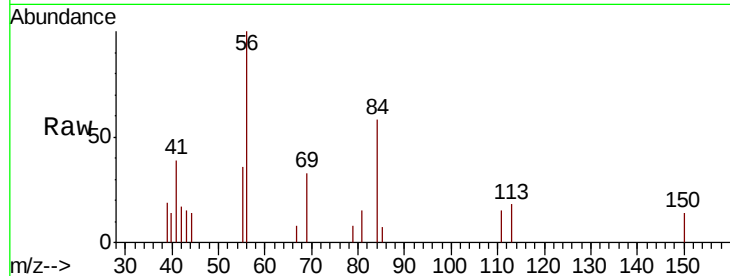
#31
Cyclohexane
Concen: 0.747 ug/l
RT: 5.57 min Scan# 768
Delta R.T. 0.00 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.7	25.2	37.8
84	57.7	71.3	106.9#

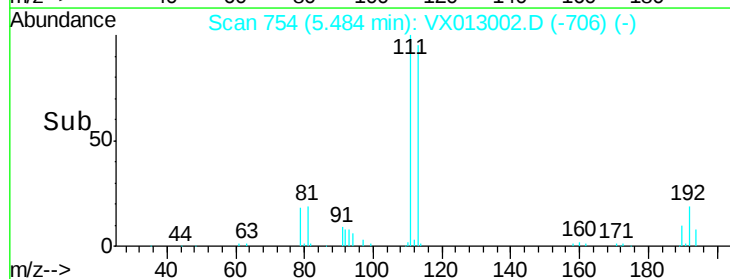
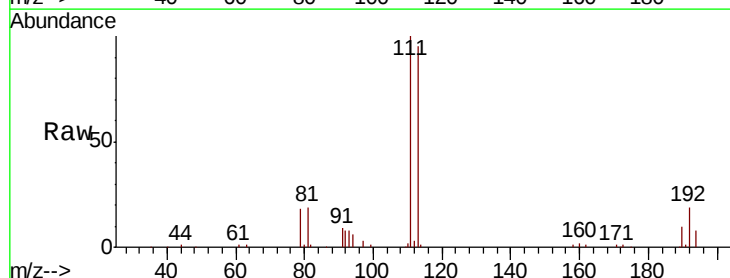
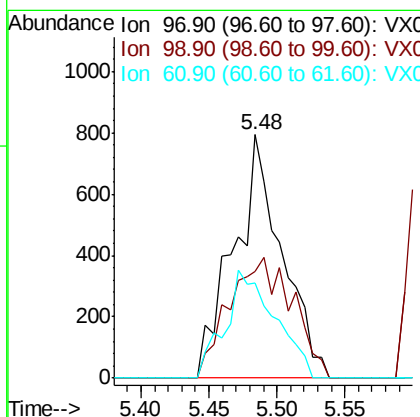
Manual Integrations
APPROVED

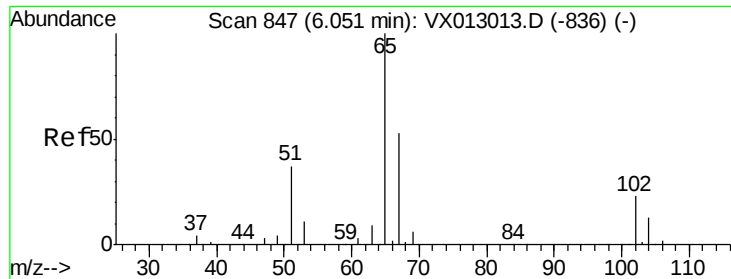
MMDadoda
10/14/2019 2:47:52 PM



#32
1,1,1-Trichloroethane
Concen: 0.730 ug/l
RT: 5.48 min Scan# 754
Delta R.T. -0.01 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Tgt Ion	Ratio	Lower	Upper
97	100		
99	0.0	52.3	78.5#
61	45.8	35.0	52.4





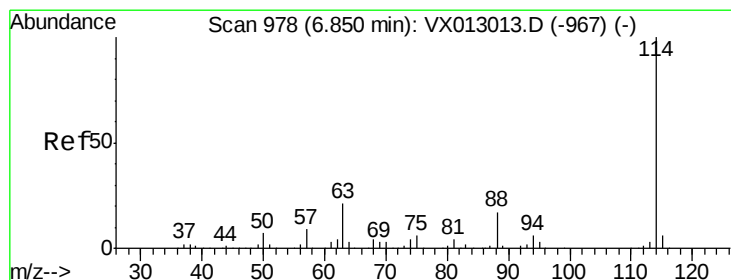
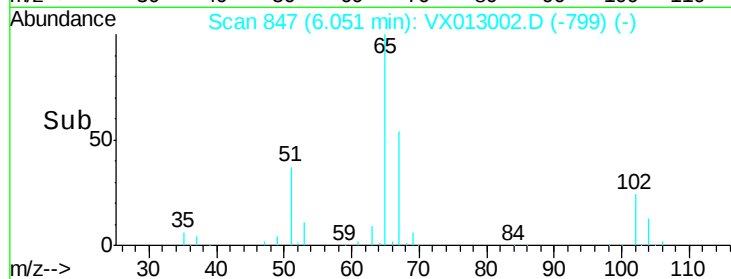
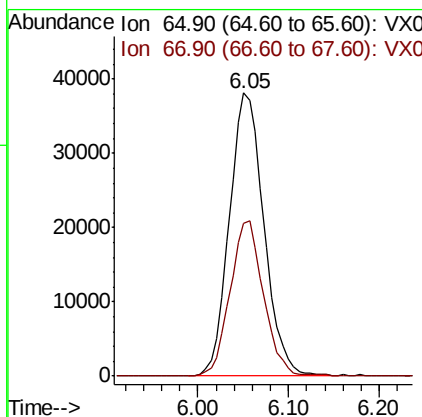
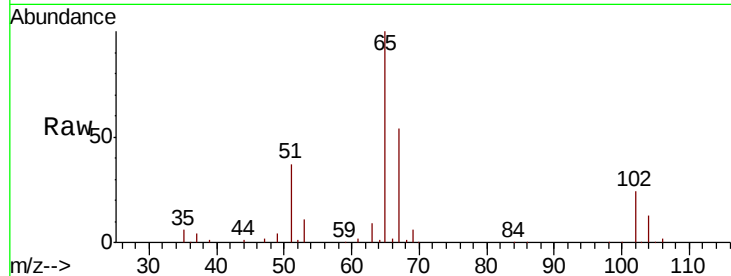
#33
 1,2-Dichloroethane-d4
 Concen: 50.728 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.01 min
 Lab File: VX013002.D
 Acq: 10 Oct 2019 17:40

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
65	100	100887		
67	52.7	0.0	104.4	

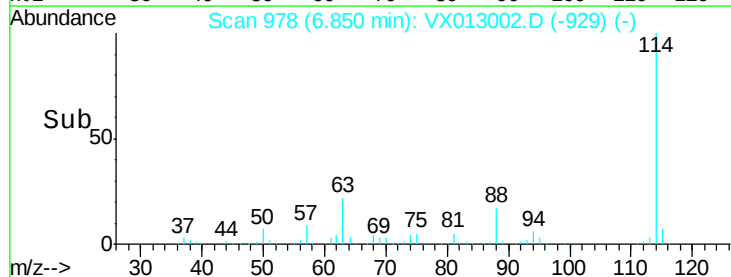
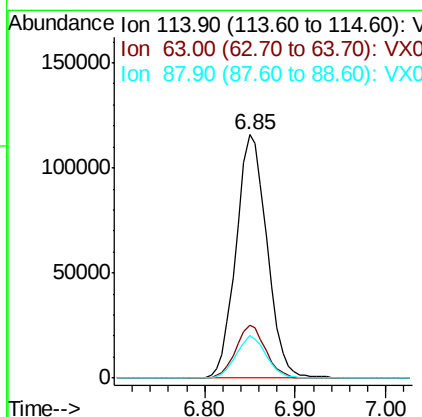
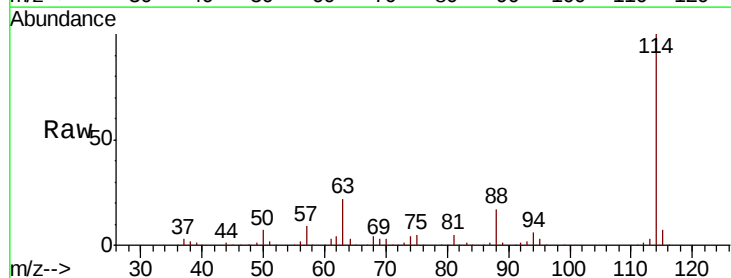
Manual Integrations
 APPROVED

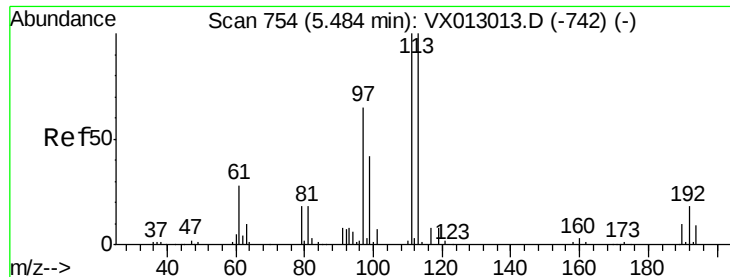
MMDadoda
 10/14/2019 2:47:52 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX013002.D
 Acq: 10 Oct 2019 17:40

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	274099		
63	21.8	0.0	40.8	
88	17.4	0.0	33.8	





#35

Dibromofluoromethane

Concen: 48.009 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013002.D

Acq: 10 Oct 2019 17:40

Instrument :

MSVOA_X

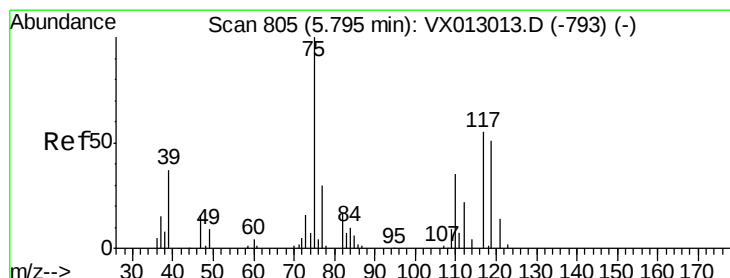
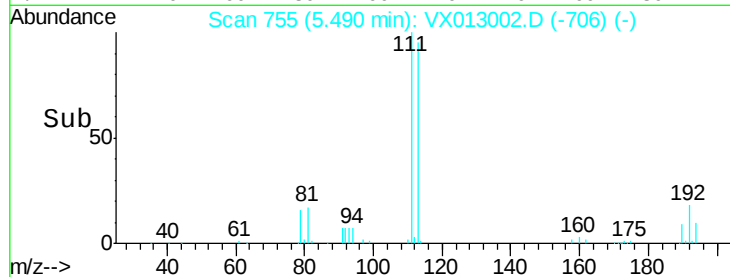
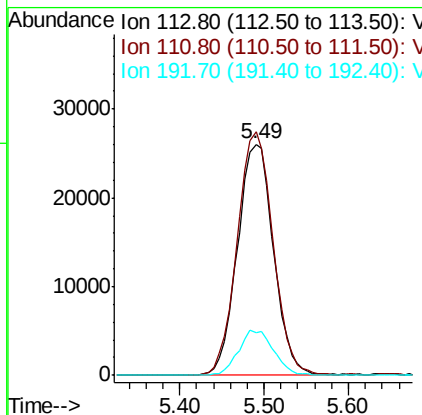
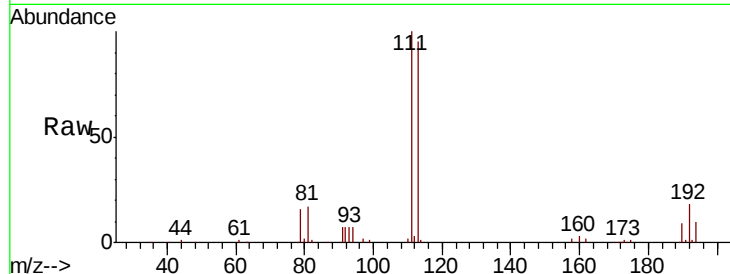
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	113	Resp:	75527
Ion	Ratio	Lower	Upper
113	100		
111	104.5	83.2	124.8
192	19.1	15.4	23.2

Manual Integrations
APPROVED

MMDadoda
10/14/2019 2:47:52 PM



#36

1,1-Dichloropropene

Concen: 0.725 ug/l

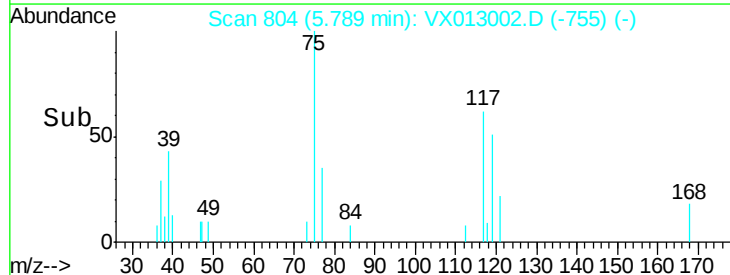
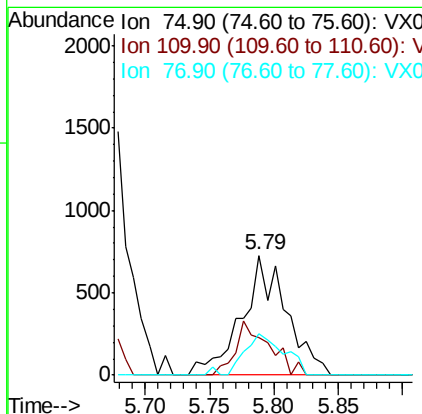
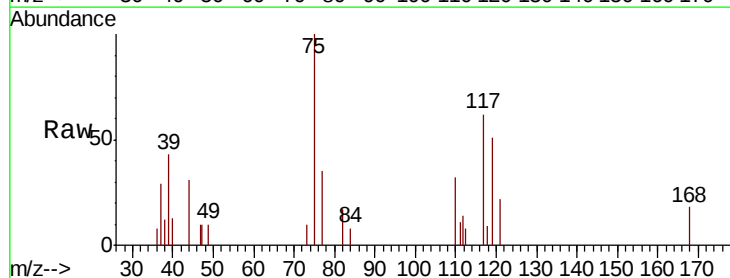
RT: 5.79 min Scan# 804

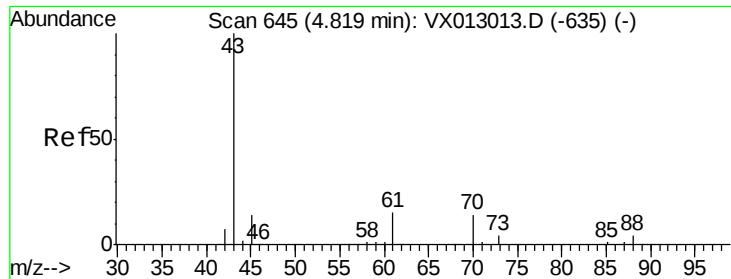
Delta R.T. 0.00 min

Lab File: VX013002.D

Acq: 10 Oct 2019 17:40

Tgt Ion:	75	Resp:	1746
Ion	Ratio	Lower	Upper
75	100		
110	34.1	17.6	52.9
77	29.8	24.4	36.6





#37

Ethyl Acetate

Concen: 0.675 ug/l

RT: 4.83 min Scan# 647

Delta R.T. 0.01 min

Lab File: VX013002.D

Acq: 10 Oct 2019 17:40

Instrument :

MSVOA_X

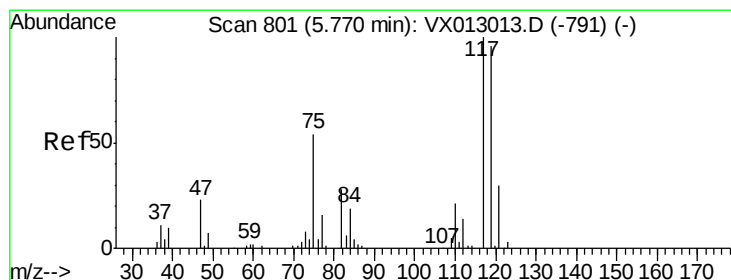
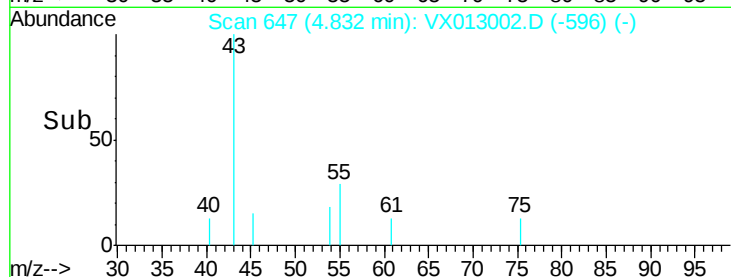
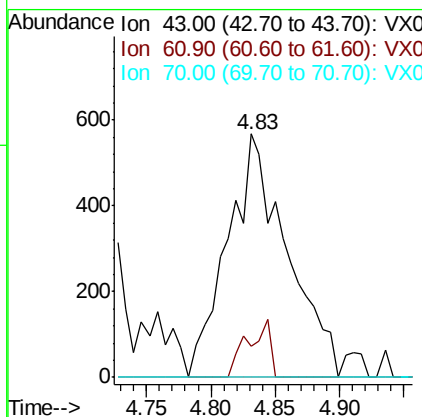
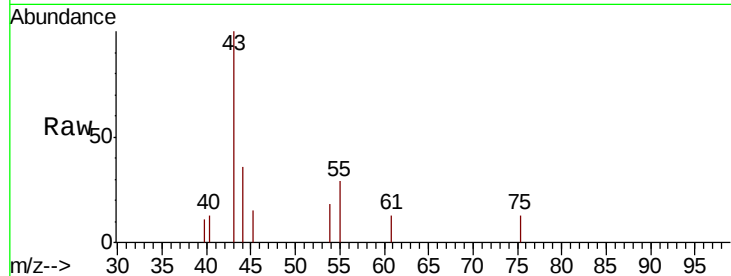
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	43	Resp:	1819
Ion	Ratio	Lower	Upper
43	100		
61	8.9	11.4	17.0#
70	0.0	9.8	14.6#

Manual Integrations
APPROVED

MMDadoda
10/14/2019 2:47:52 PM



#38

Carbon Tetrachloride

Concen: 0.713 ug/l

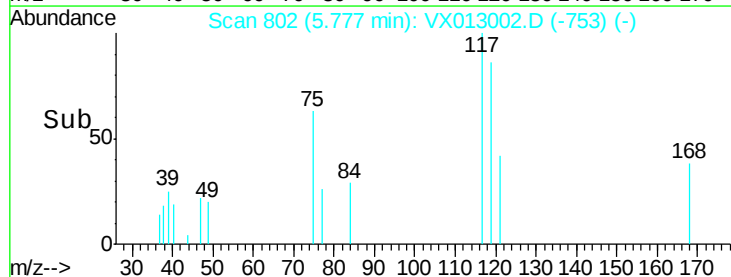
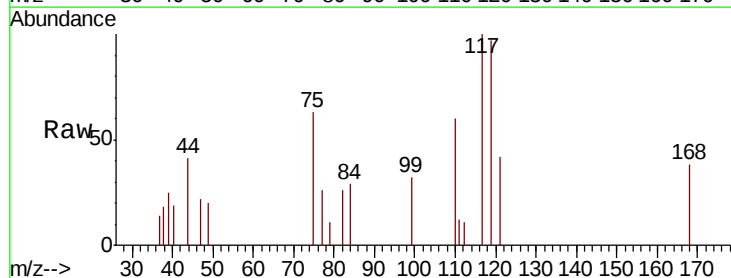
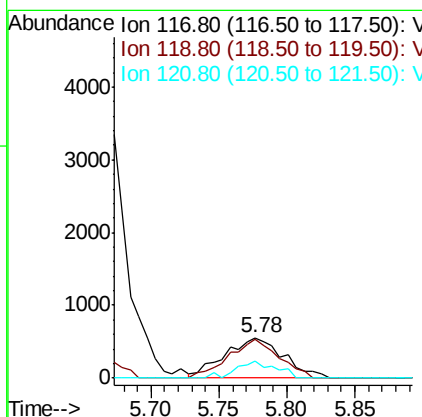
RT: 5.78 min Scan# 802

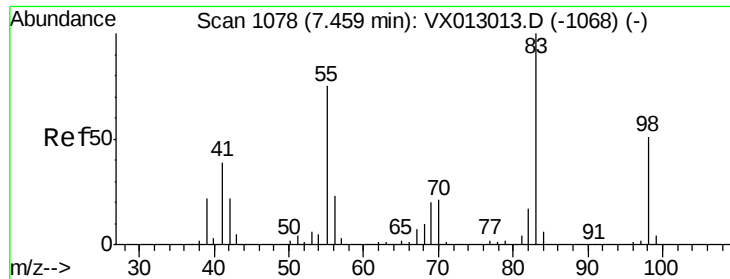
Delta R.T. 0.00 min

Lab File: VX013002.D

Acq: 10 Oct 2019 17:40

Tgt Ion:	117	Resp:	1673
Ion	Ratio	Lower	Upper
117	100		
119	97.5	74.5	111.7
121	41.9	24.2	36.4#





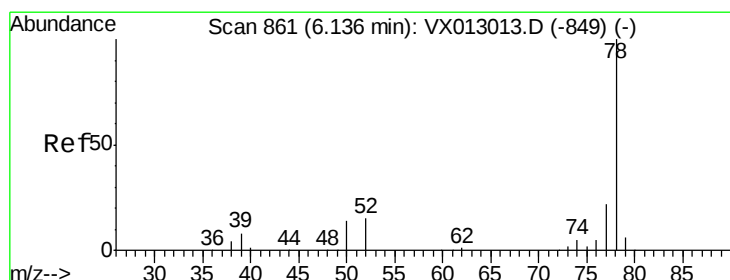
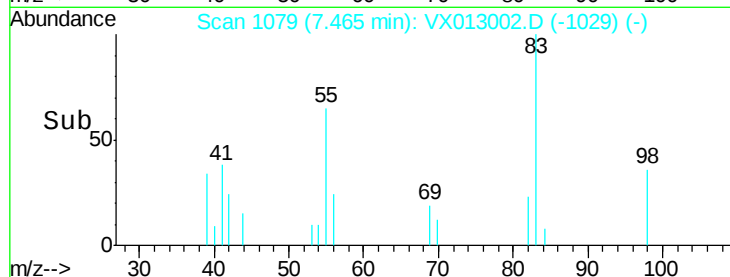
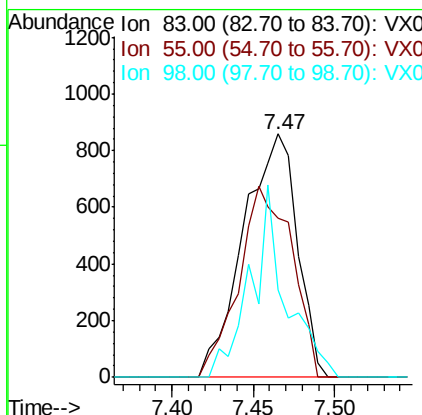
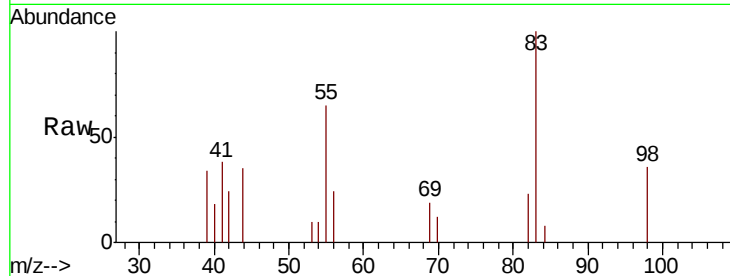
#39
Methvlcvclohexane
Concen: 0.670 ug/l
RT: 7.47 min Scan# 1079
Delta R.T. 0.01 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
83	100		
55	65.3	60.2	90.4
98	36.1	38.5	57.7#

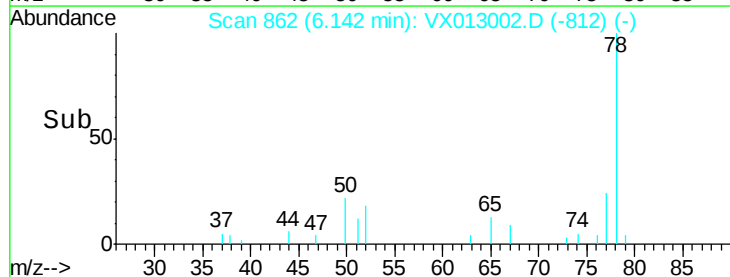
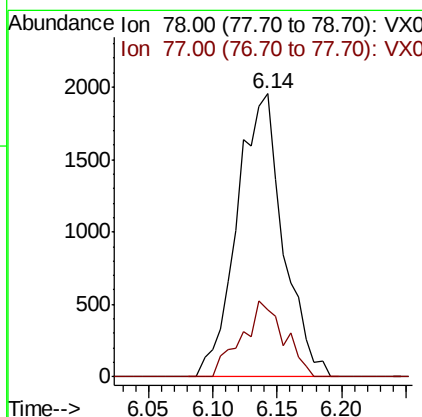
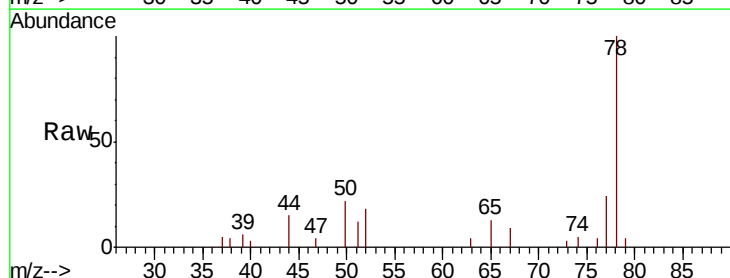
Manual Integrations
APPROVED

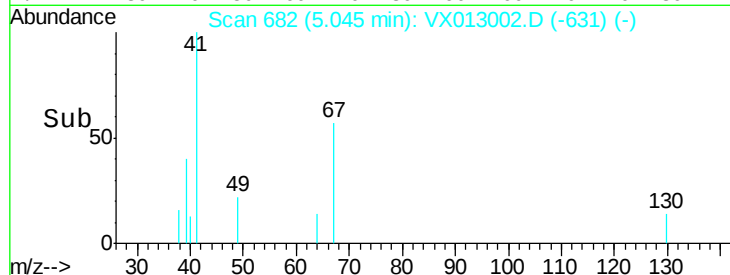
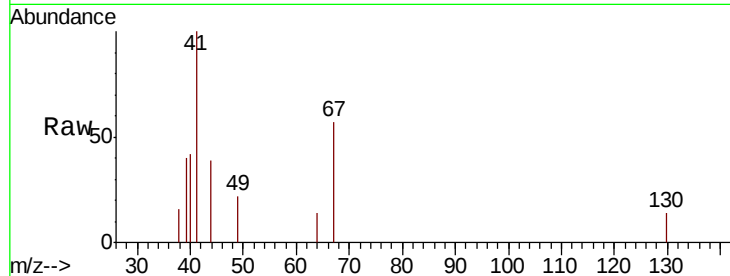
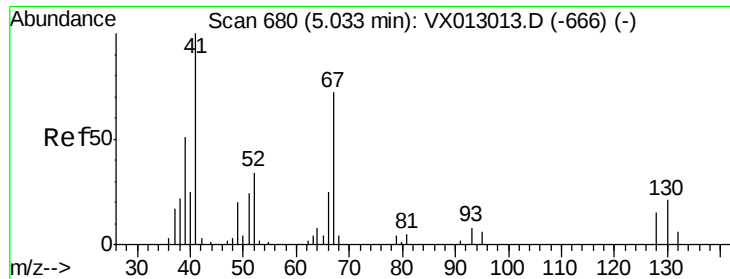
MMDadoda
10/14/2019 2:47:52 PM



#40
Benzene
Concen: 0.681 ug/l
RT: 6.14 min Scan# 862
Delta R.T. 0.01 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.0	28.4





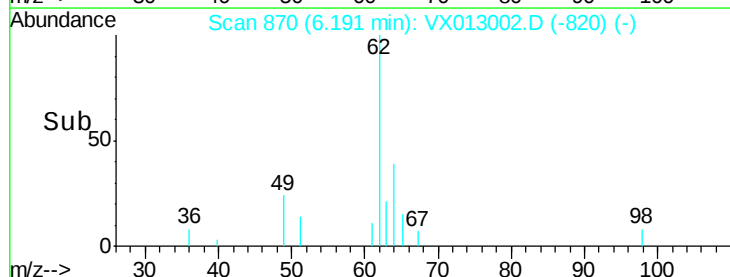
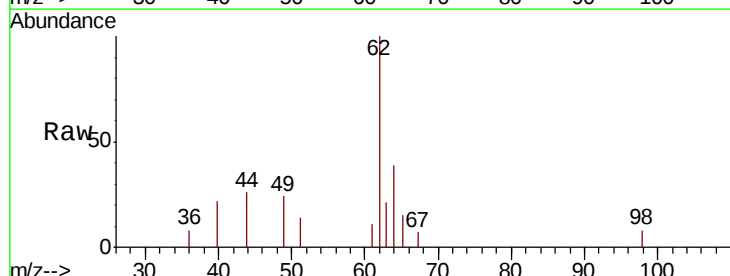
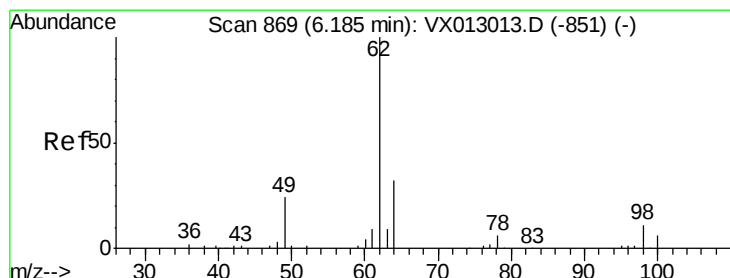
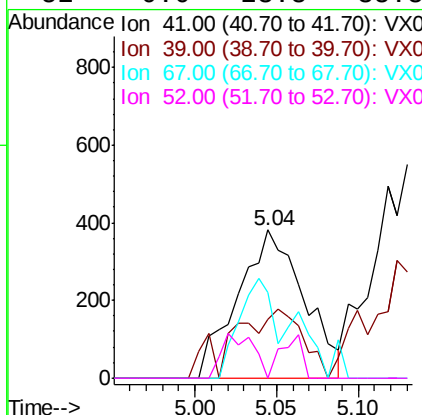
#41
Methacrylonitrile
Concen: 0.728 ug/l
RT: 5.04 min Scan# 682
Delta R.T. 0.01 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Tot Ion	Ratio	Lower	Upper
41	100		
39	42.9	44.0	66.0#
67	38.7	58.5	87.7#
52	0.0	23.8	35.8#

Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

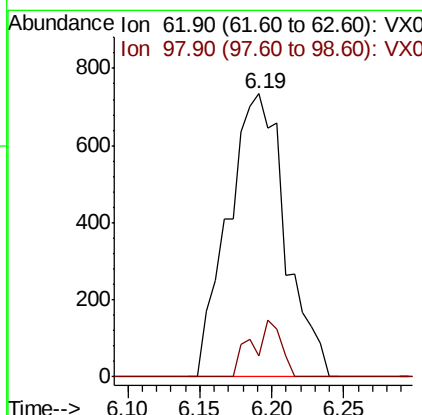
Manual Integrations
APPROVED

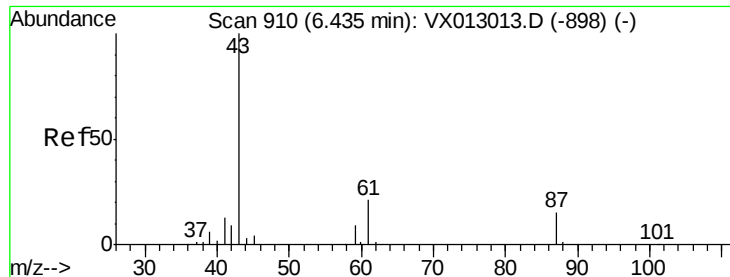
MMDadoda
10/14/2019 2:47:52 PM



#42
1,2-Dichloroethane
Concen: 0.793 ug/l
RT: 6.19 min Scan# 870
Delta R.T. 0.01 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	20.4





#43

Isopropyl Acetate

Concen: 0.657 ug/l

RT: 6.44 min Scan# 911

Delta R.T. 0.01 min

Lab File: VX013002.D

Acq: 10 Oct 2019 17:40

Instrument :

MSVOA_X

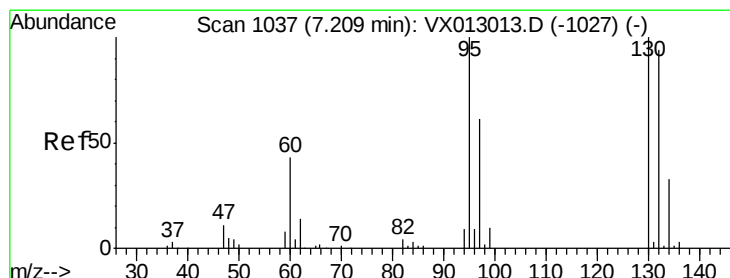
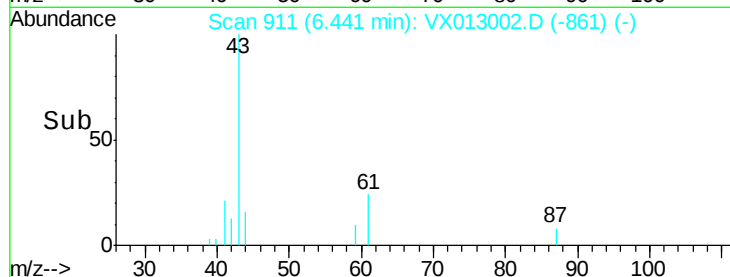
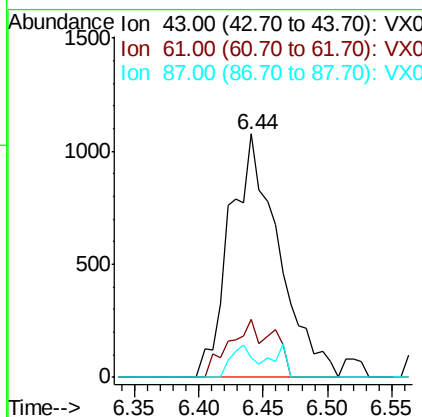
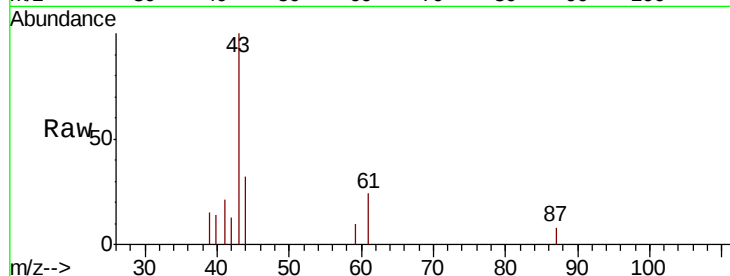
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	43	Resp:	2843
Ion	Ratio	Lower	Upper
43	100		
61	21.3	16.6	24.8
87	6.2	11.0	16.6#

Manual Integrations
APPROVED

MMDadoda
10/14/2019 2:47:52 PM



#44

Trichloroethene

Concen: 0.694 ug/l

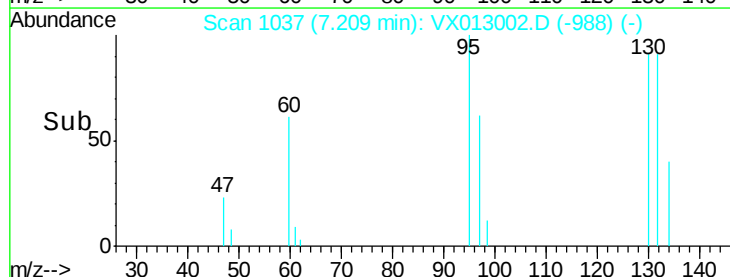
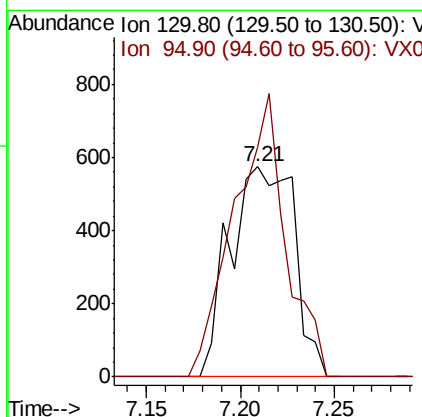
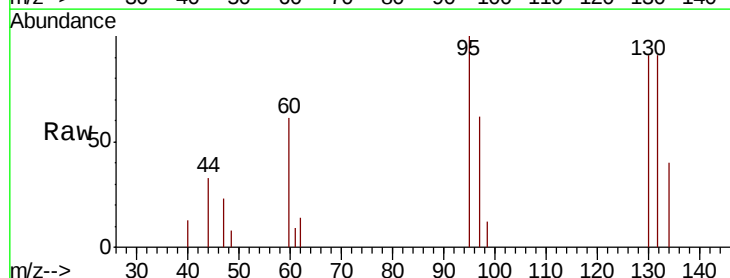
RT: 7.21 min Scan# 1037

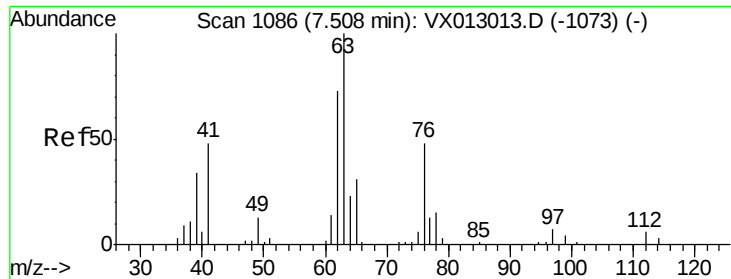
Delta R.T. 0.00 min

Lab File: VX013002.D

Acq: 10 Oct 2019 17:40

Tgt Ion:	130	Resp:	1369
Ion	Ratio	Lower	Upper
130	100		
95	109.6	0.0	189.2





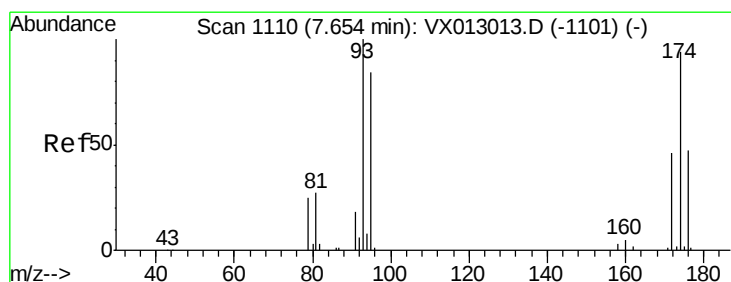
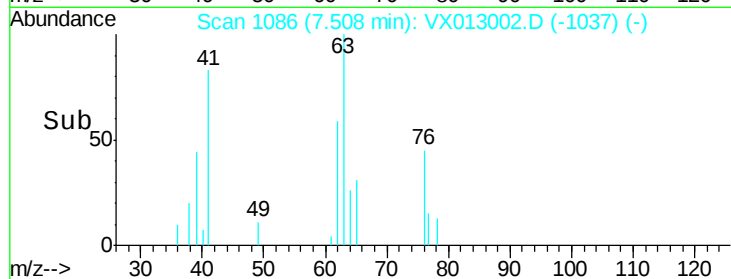
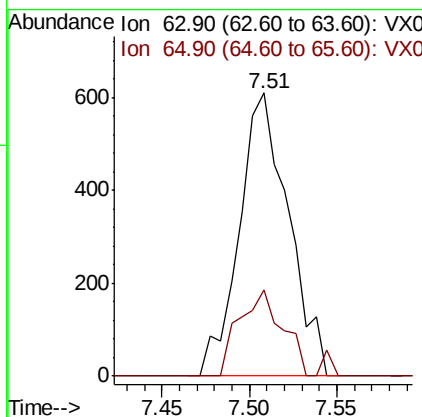
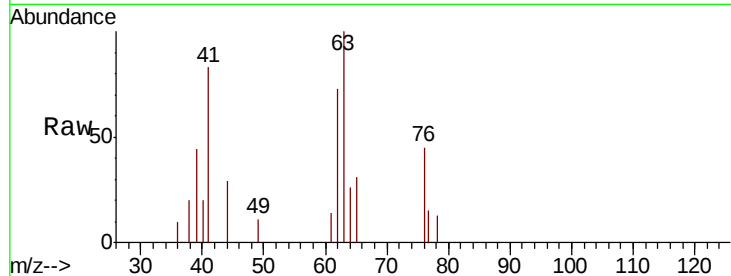
#45
 1,2-Dichloropropane
 Concen: 0.658 ug/l
 RT: 7.51 min Scan# 1086
 Delta R.T. 0.00 min
 Lab File: VX013002.D
 Acq: 10 Oct 2019 17:40

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion: 63 Resp: 1194
 Ion Ratio Lower Upper
 63 100
 65 30.7 24.6 37.0

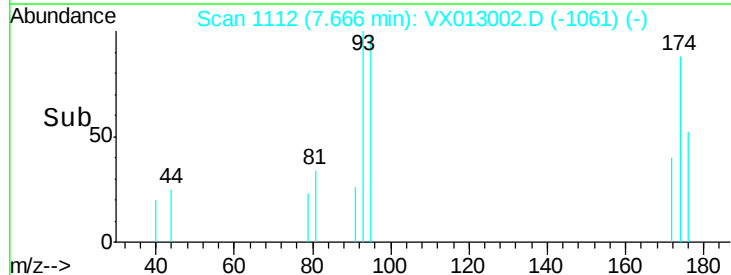
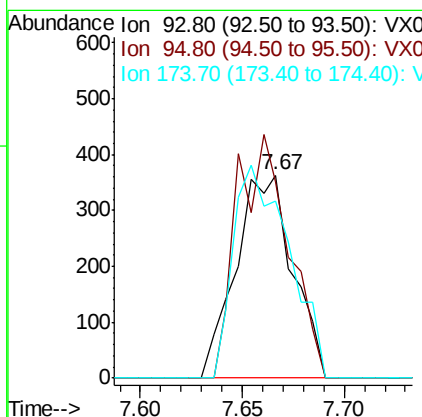
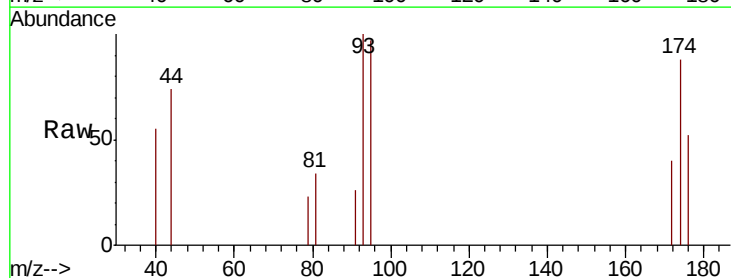
Manual Integrations
 APPROVED

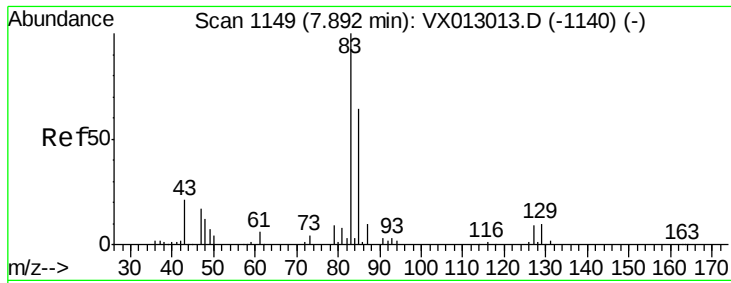
MMDadoda
 10/14/2019 2:47:52 PM



#46
 Dibromomethane
 Concen: 0.583 ug/l
 RT: 7.67 min Scan# 1112
 Delta R.T. 0.01 min
 Lab File: VX013002.D
 Acq: 10 Oct 2019 17:40

Tgt Ion: 93 Resp: 705
 Ion Ratio Lower Upper
 93 100
 95 109.1 66.3 99.5#
 174 101.8 77.8 116.6





#47

Bromodichloromethane

Concen: 0.623 ug/l

RT: 7.89 min Scan# 1149

Delta R.T. 0.00 min

Lab File: VX013002.D

Acq: 10 Oct 2019 17:40

Instrument :

MSVOA_X

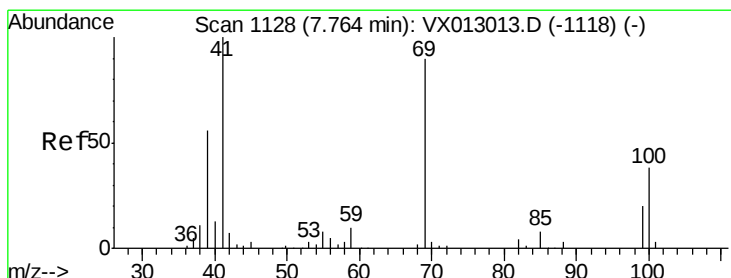
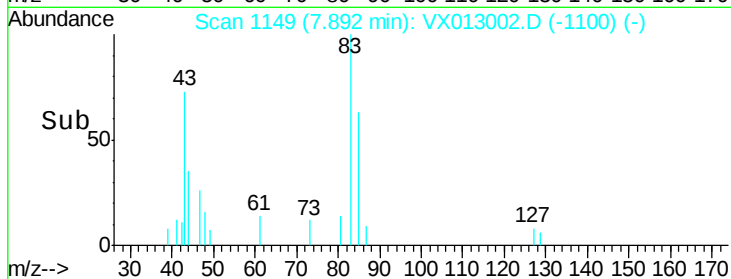
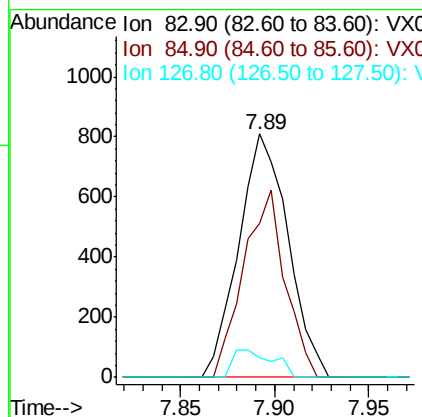
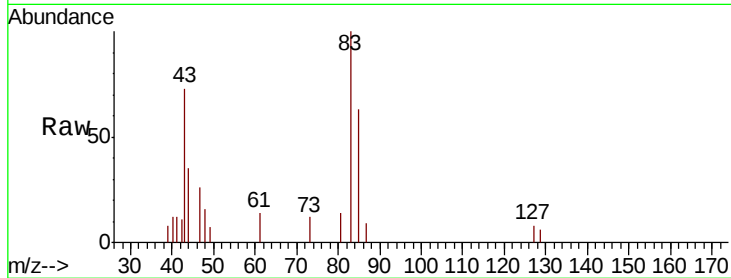
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	83	Resp:	1470
Ion	Ratio	Lower	Upper
83	100		
85	63.2	52.4	78.6
127	8.0	6.6	10.0

Manual Integrations
APPROVED

MMDadoda
10/14/2019 2:47:52 PM



#48

Methyl methacrylate

Concen: 0.542 ug/l

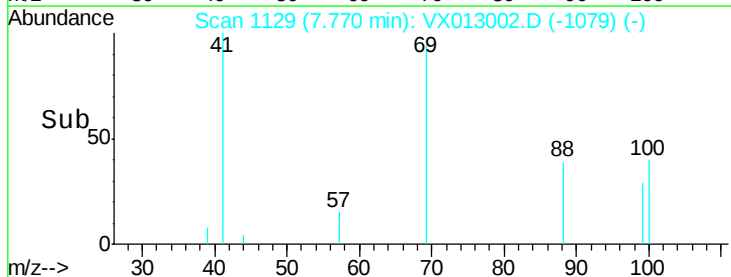
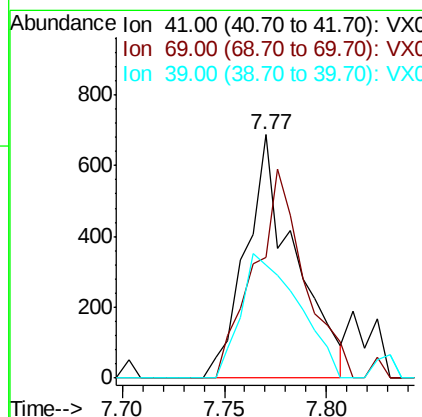
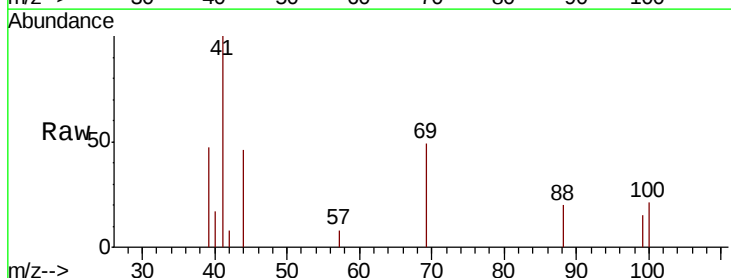
RT: 7.77 min Scan# 1129

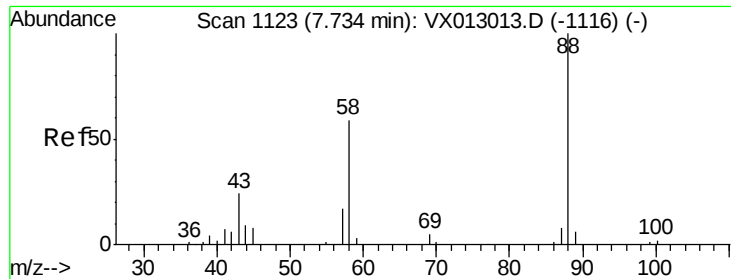
Delta R.T. 0.01 min

Lab File: VX013002.D

Acq: 10 Oct 2019 17:40

Tgt Ion:	41	Resp:	1142
Ion	Ratio	Lower	Upper
41	100		
69	87.8	68.7	103.1
39	60.2	44.3	66.5





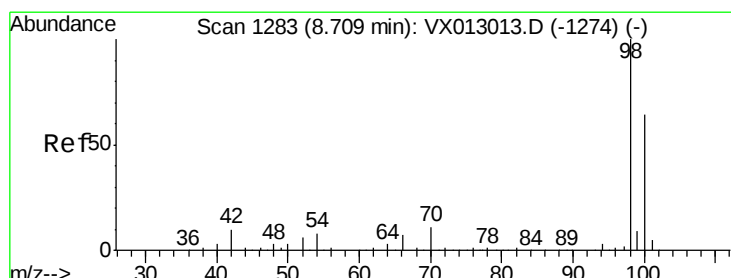
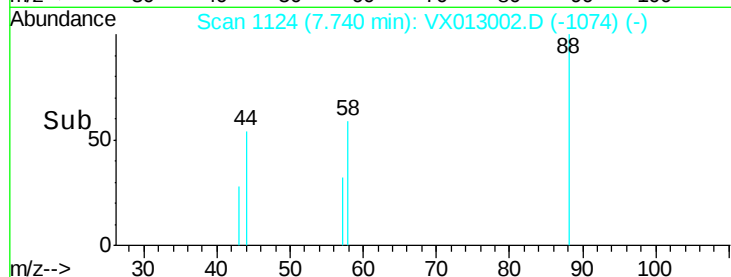
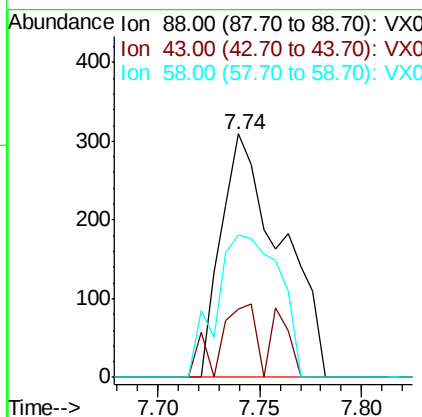
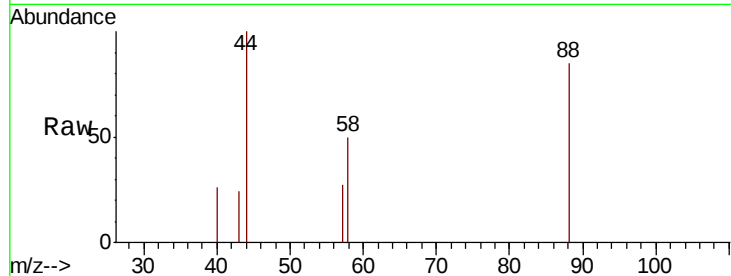
#49
1,4-Dioxane
Concen: 12.324 ug/l
RT: 7.74 min Scan# 1124
Delta R.T. 0.01 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
88	100		
43	18.2	25.0	37.6#
58	62.1	55.4	83.2

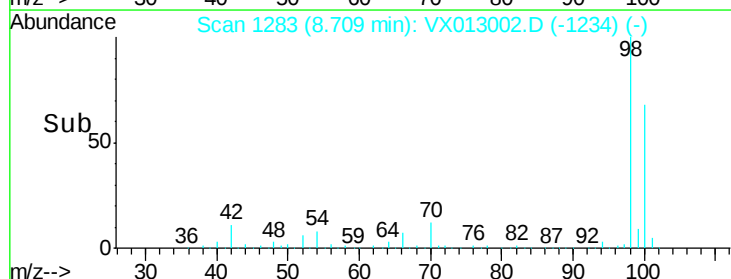
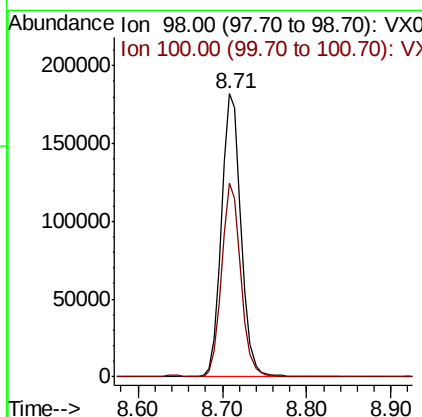
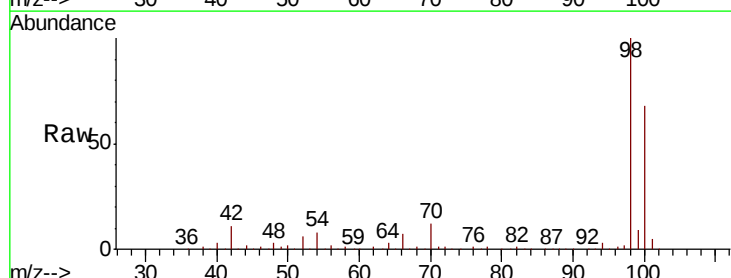
Manual Integrations
APPROVED

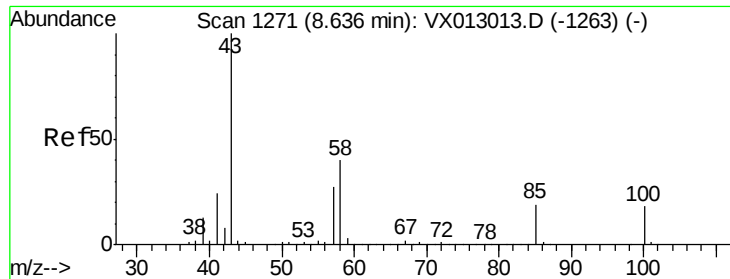
MMDadoda
10/14/2019 2:47:52 PM



#50
Toluene-d8
Concen: 47.619 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Tgt Ion	Ratio	Lower	Upper
98	100		
100	67.0	53.4	80.2





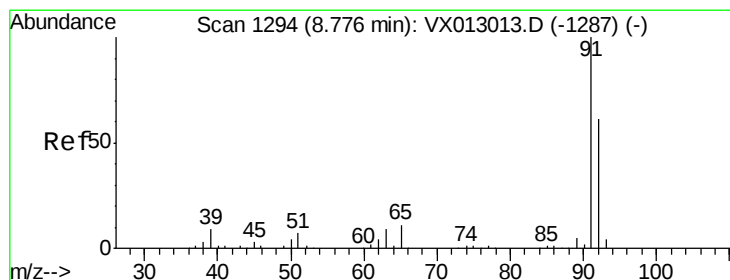
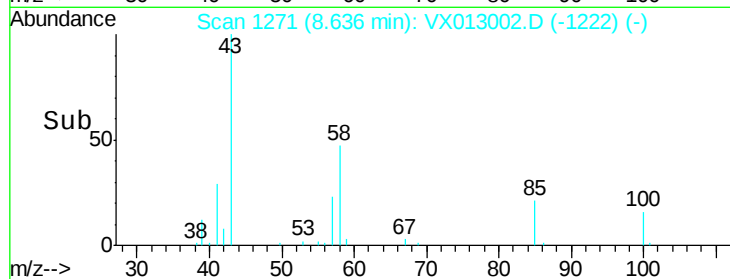
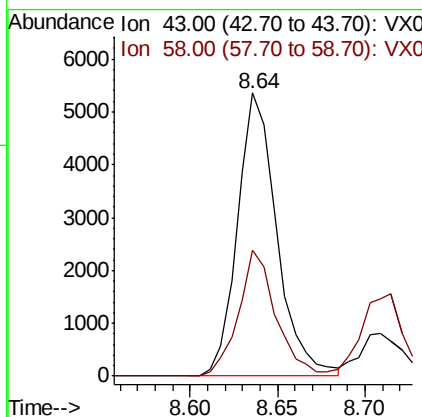
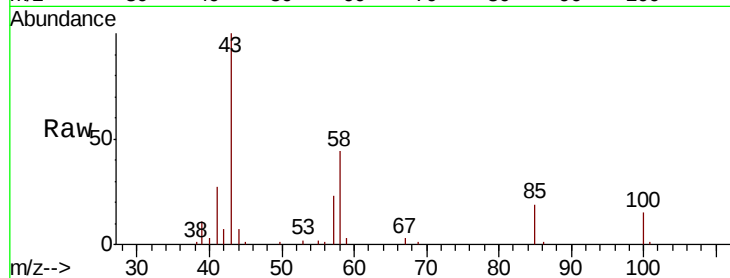
#51
4-Methyl-2-Pentanone
Concen: 3.109 ug/l
RT: 8.64 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	43	58	Resp	8383
Ion Ratio	100	42.3	Lower	Upper
			32.4	48.6

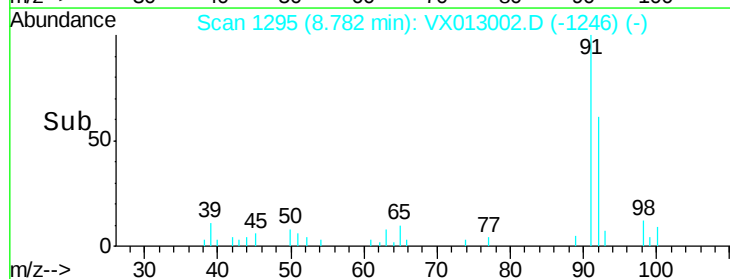
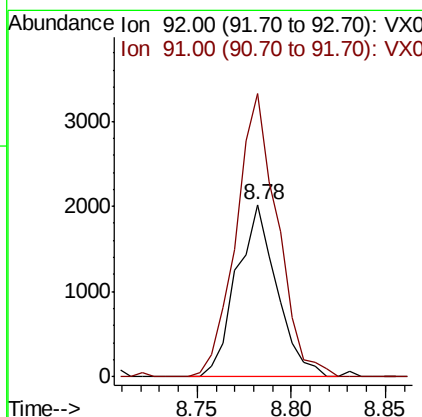
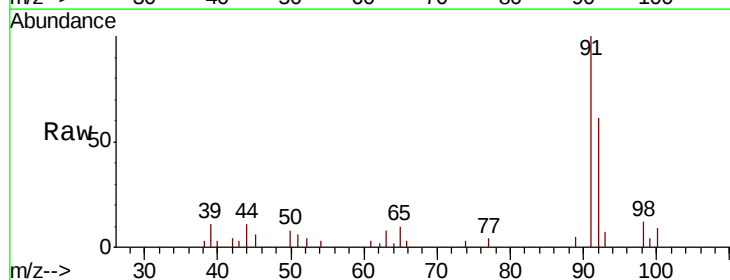
Manual Integrations
APPROVED

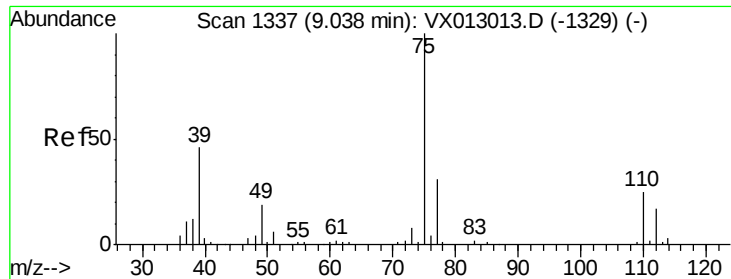
MMDadoda
10/14/2019 2:47:52 PM



#52
Toluene
Concen: 0.661 ug/l
RT: 8.78 min Scan# 1295
Delta R.T. 0.00 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Tgt Ion	92	91	Resp	3011
Ion Ratio	100	168.3	Lower	Upper
			135.9	203.9





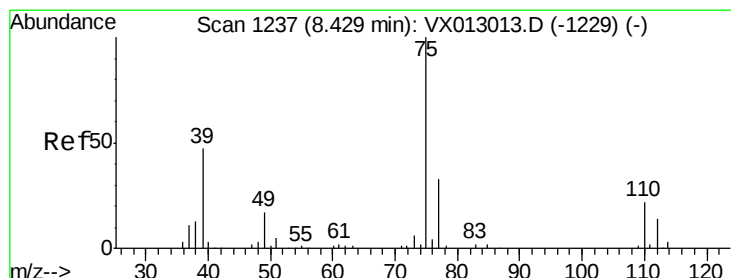
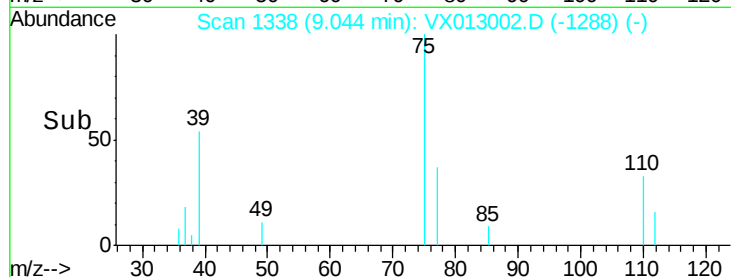
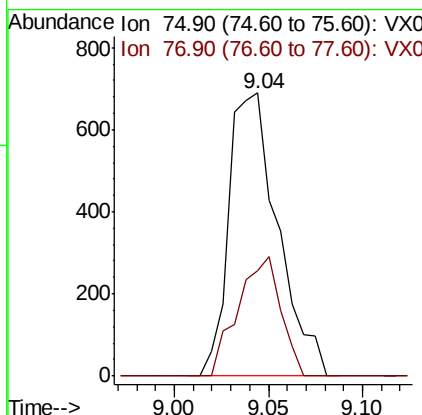
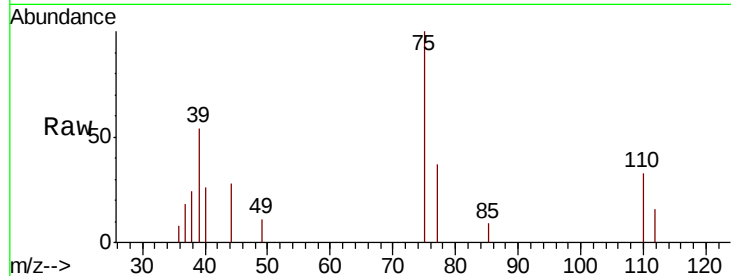
#53
t-1,3-Dichloropropene
Concen: 0.476 ug/l
RT: 9.04 min Scan# 1338
Delta R.T. 0.01 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 75 Resp: 1242
Ion Ratio Lower Upper
75 100
77 37.2 25.8 38.6

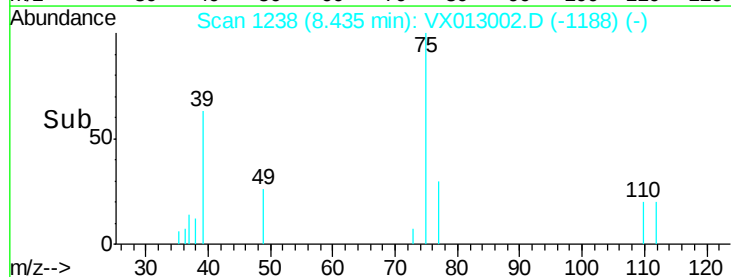
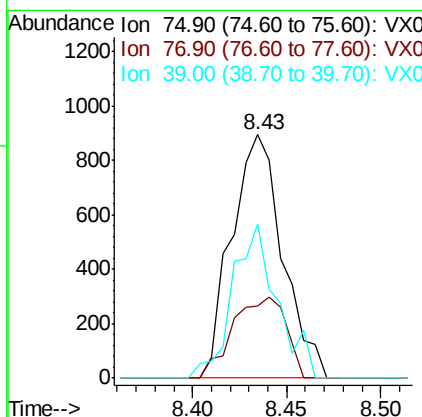
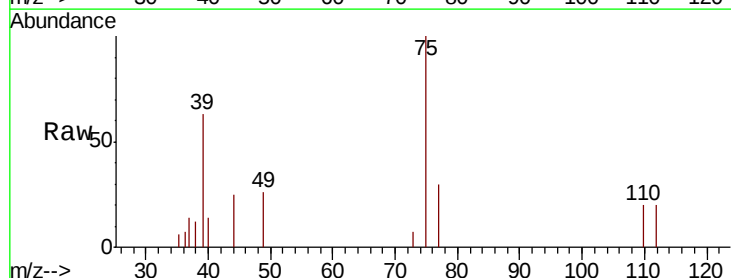
Manual Integrations
APPROVED

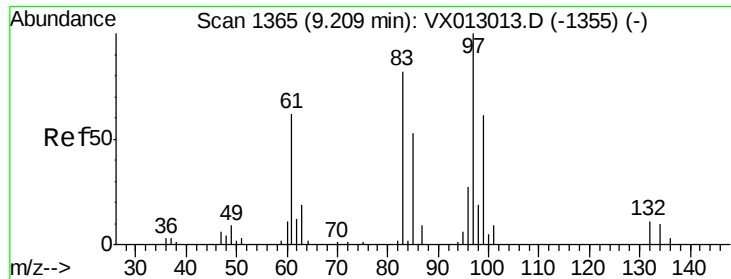
MMDadoda
10/14/2019 2:47:52 PM



#54
cis-1,3-Dichloropropene
Concen: 0.580 ug/l
RT: 8.43 min Scan# 1238
Delta R.T. 0.01 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Tgt Ion: 75 Resp: 1682
Ion Ratio Lower Upper
75 100
77 29.6 25.8 38.8
39 63.4 38.2 57.2#





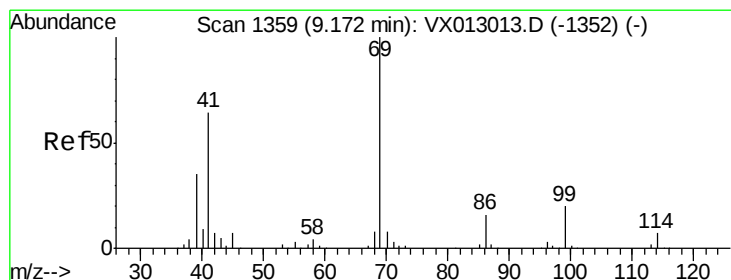
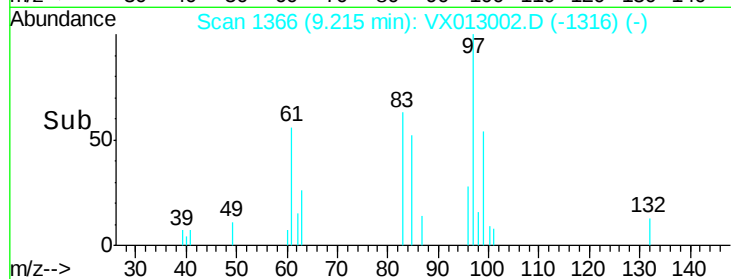
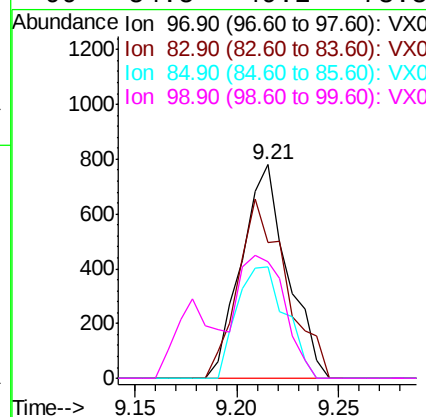
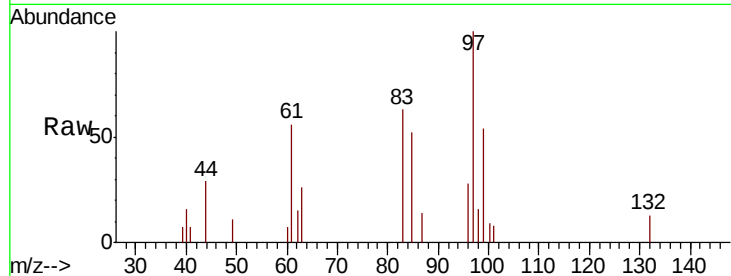
#55
1,1,2-Trichloroethane
Concen: 0.680 ug/l
RT: 9.21 min Scan# 1366
Delta R.T. 0.01 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion:	97	Resp:	1225
Ion	Ratio	Lower	Upper
97	100		
83	63.5	66.5	99.7#
85	52.4	43.1	64.7
99	54.5	49.2	73.8

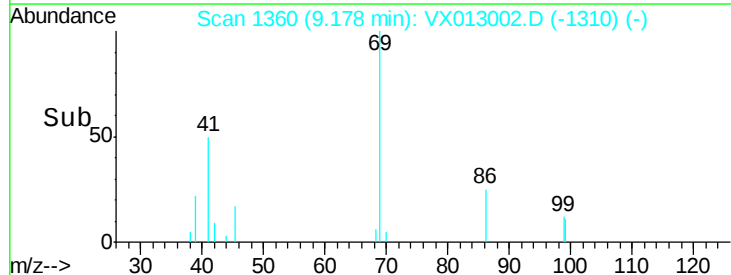
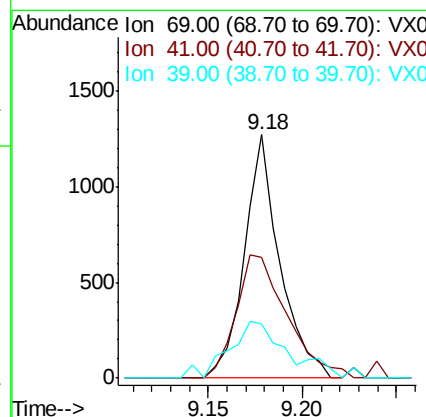
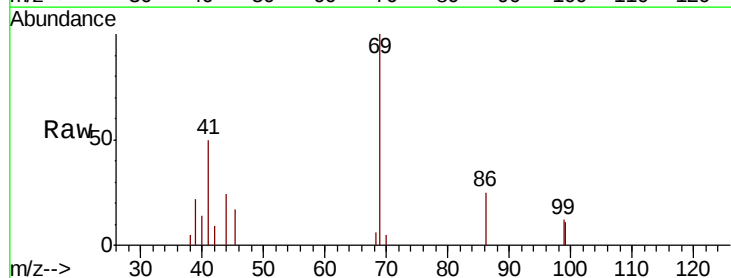
Manual Integrations
APPROVED

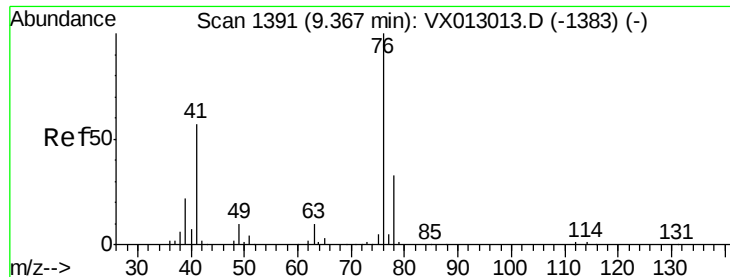
MMDadoda
10/14/2019 2:47:52 PM



#56
Ethyl methacrylate
Concen: 0.570 ug/l
RT: 9.18 min Scan# 1360
Delta R.T. 0.01 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Tgt Ion:	69	Resp:	1663
Ion	Ratio	Lower	Upper
69	100		
41	72.5	52.1	78.1
39	39.9	27.8	41.8





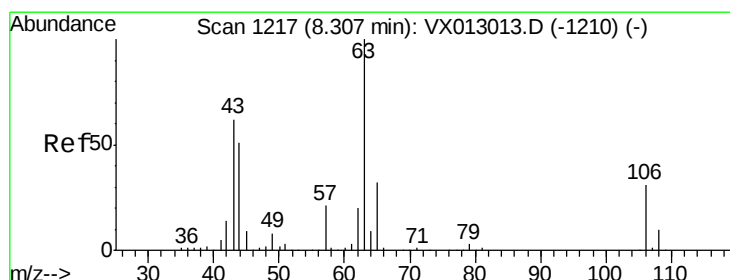
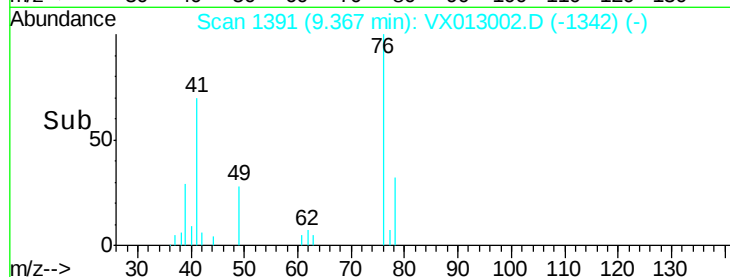
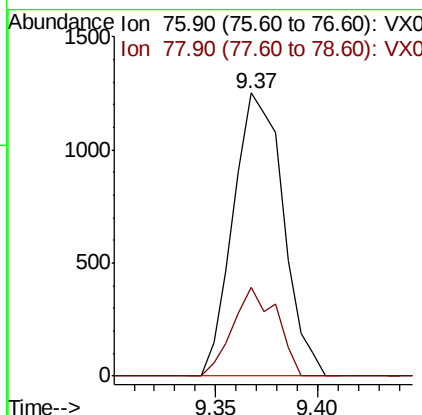
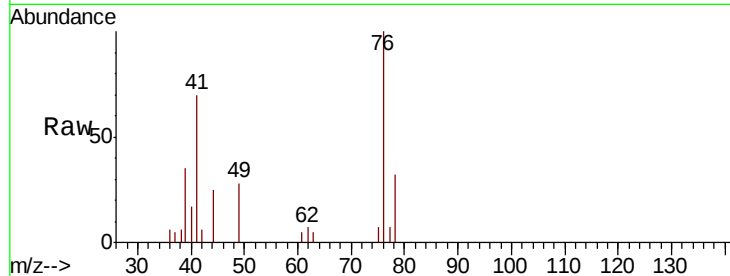
#57
 1,3-Dichloropropane
 Concen: 0.682 ug/l
 RT: 9.37 min Scan# 1391
 Delta R.T. 0.00 min
 Lab File: VX013002.D
 Acq: 10 Oct 2019 17:40

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion: 76 Resp: 2127
 Ion Ratio Lower Upper
 76 100
 78 27.7 26.1 39.1

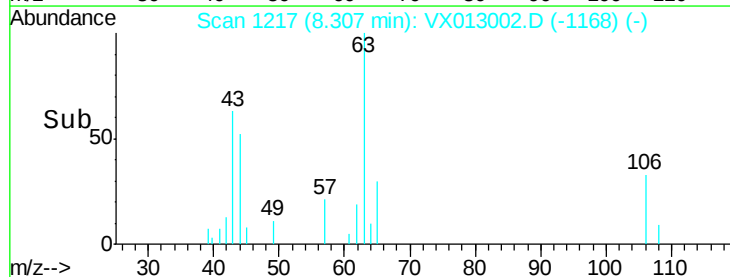
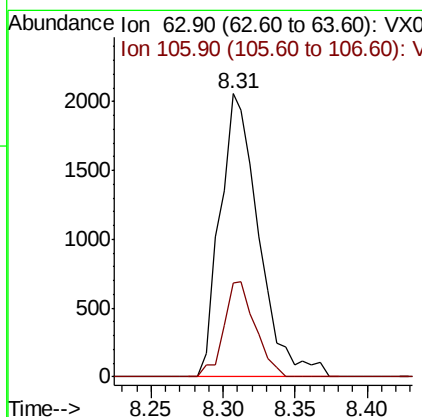
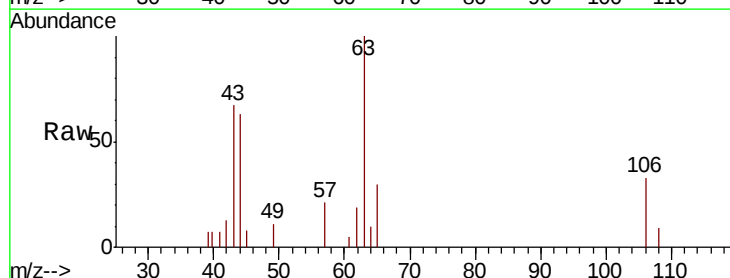
Manual Integrations
 APPROVED

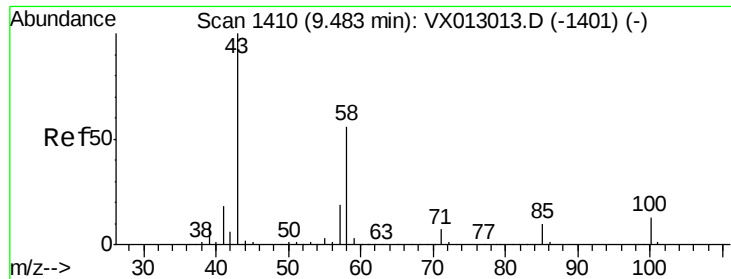
MMDadoda
 10/14/2019 2:47:52 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 2.926 ug/l
 RT: 8.31 min Scan# 1217
 Delta R.T. 0.00 min
 Lab File: VX013002.D
 Acq: 10 Oct 2019 17:40

Tgt Ion: 63 Resp: 3874
 Ion Ratio Lower Upper
 63 100
 106 27.4 23.8 35.8





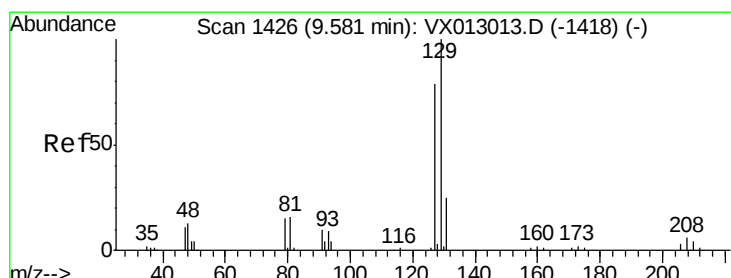
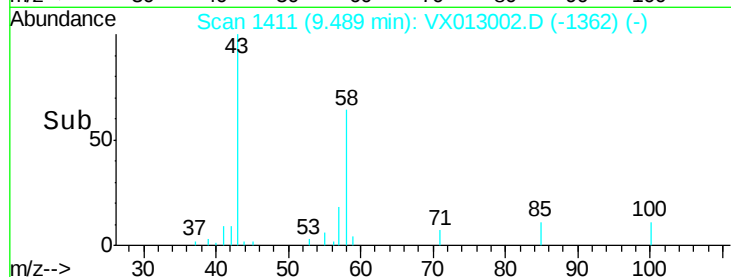
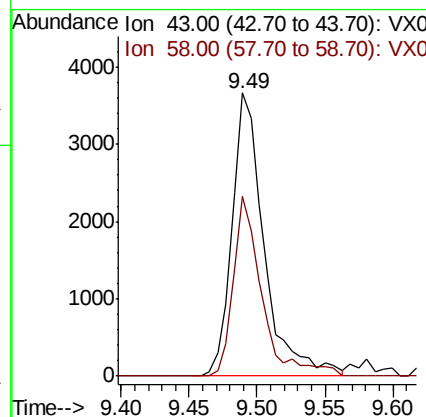
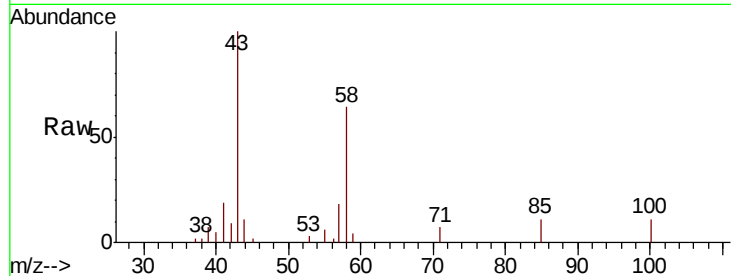
#59
2-Hexanone
Concen: 2.866 ug/l
RT: 9.49 min Scan# 1411
Delta R.T. 0.00 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 43 Resp: 6017
Ion Ratio Lower Upper
43 100
58 56.5 28.1 84.3

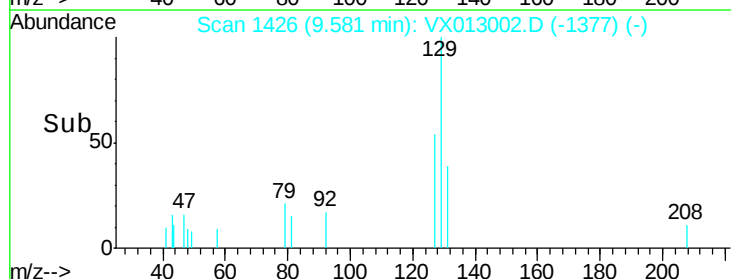
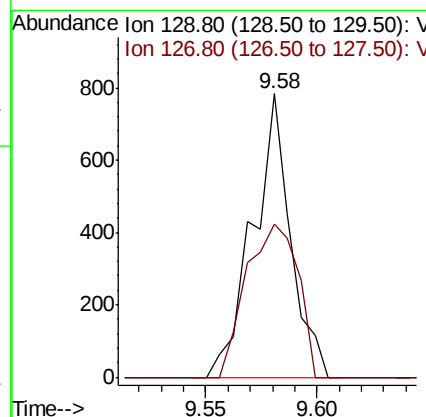
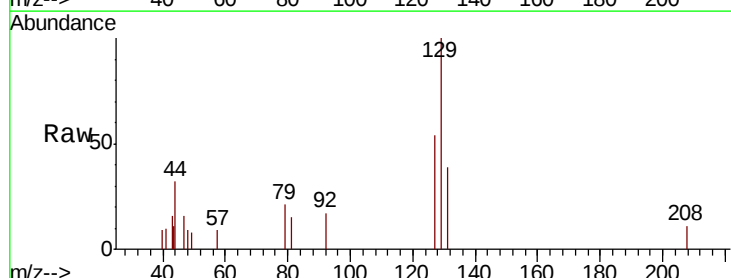
Manual Integrations
APPROVED

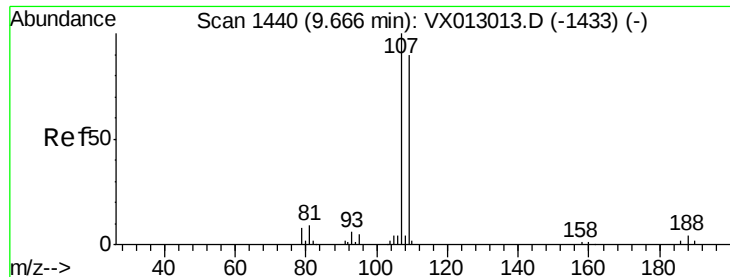
MMDadoda
10/14/2019 2:47:52 PM



#60
Dibromochloromethane
Concen: 0.524 ug/l
RT: 9.58 min Scan# 1426
Delta R.T. 0.00 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Tgt Ion: 129 Resp: 925
Ion Ratio Lower Upper
129 100
127 73.8 38.9 116.7





#61

1,2-Dibromoethane

Concen: 0.572 ug/l

RT: 9.67 min Scan# 1441

Delta R.T. 0.01 min

Lab File: VX013002.D

Acq: 10 Oct 2019 17:40

Instrument :

MSVOA_X

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:107 Resp: 1084

Ion Ratio Lower Upper

107 100

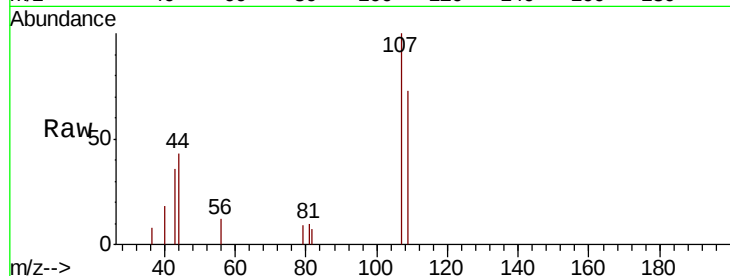
109 92.3 75.8 113.6

Manual Integrations

APPROVED

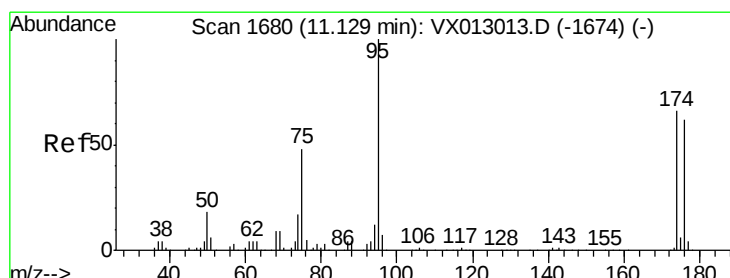
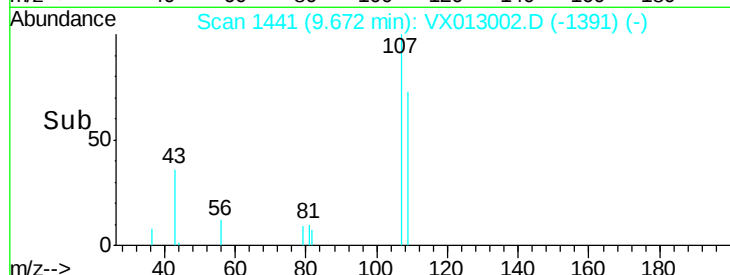
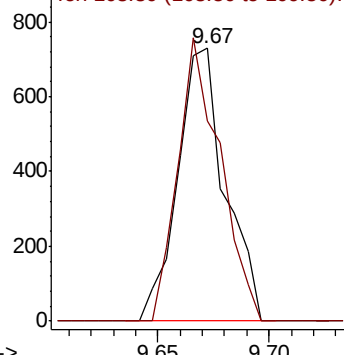
MMDadoda

10/14/2019 2:47:52 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 43.956 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX013002.D

Acq: 10 Oct 2019 17:40

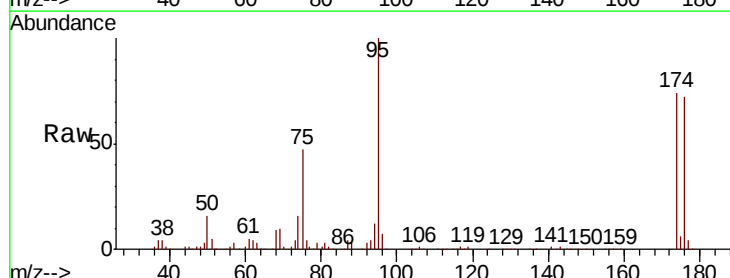
Tgt Ion: 95 Resp: 104797

Ion Ratio Lower Upper

95 100

174 71.8 0.0 143.4

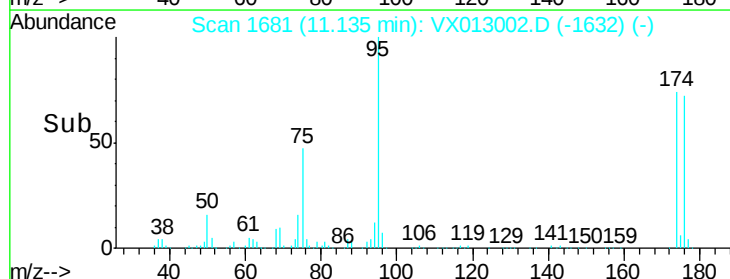
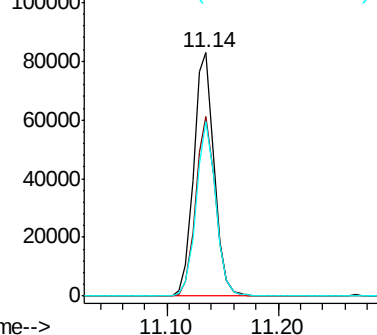
176 68.9 0.0 136.0

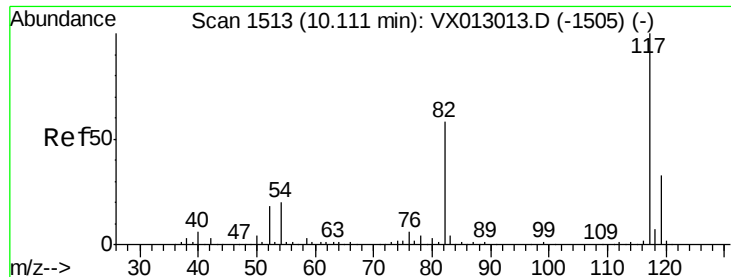


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





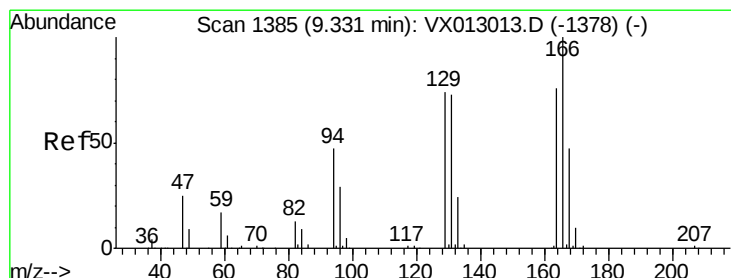
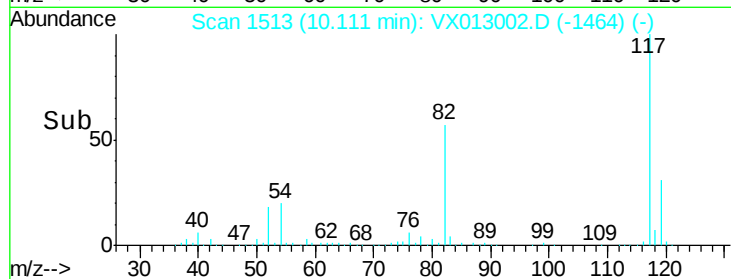
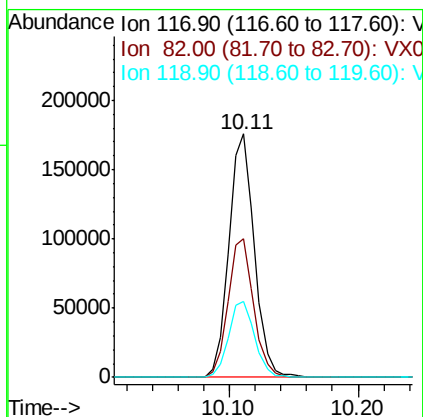
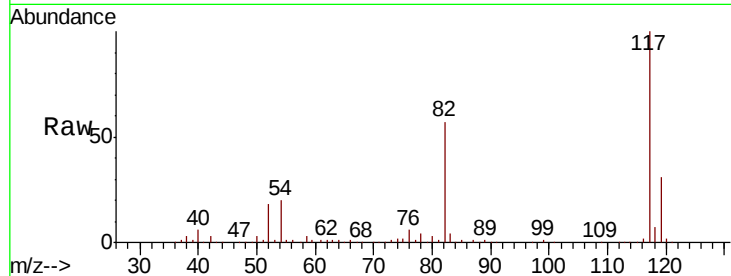
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.2	44.1	66.1
119	31.2	25.8	38.8

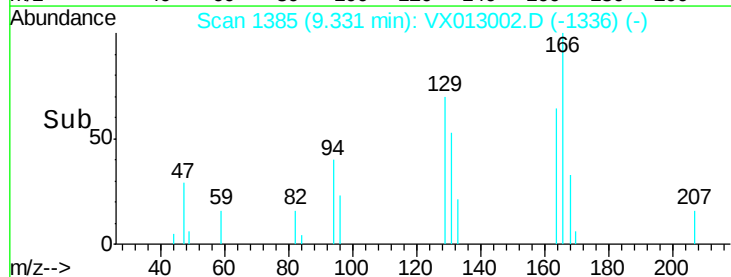
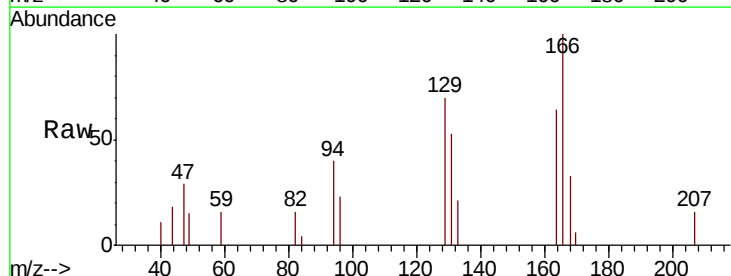
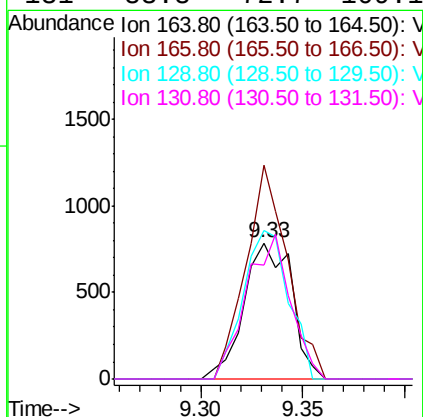
Manual Integrations
APPROVED

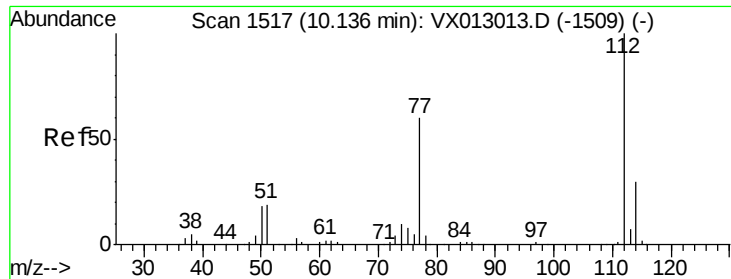
MMDadoda
10/14/2019 2:47:52 PM



#64
Tetrachloroethene
Concen: 0.757 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Tgt Ion	Ratio	Lower	Upper
164	100		
166	156.7	96.9	145.3#
129	109.3	77.9	116.9
131	83.8	72.7	109.1





#65

Chlorobenzene

Concen: 0.664 ug/l

RT: 10.13 min Scan# 1516

Delta R.T. -0.01 min

Lab File: VX013002.D

Acq: 10 Oct 2019 17:40

Instrument :

MSVOA_X

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:112 Resp: 3214

Ion Ratio Lower Upper

112 100

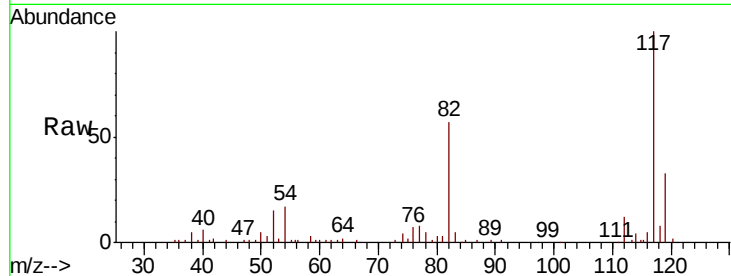
114 34.0 25.7 38.5

Manual Integrations

APPROVED

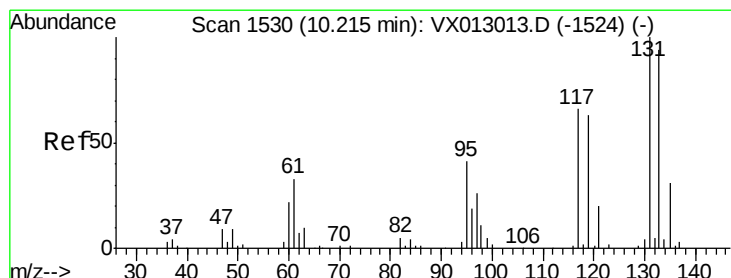
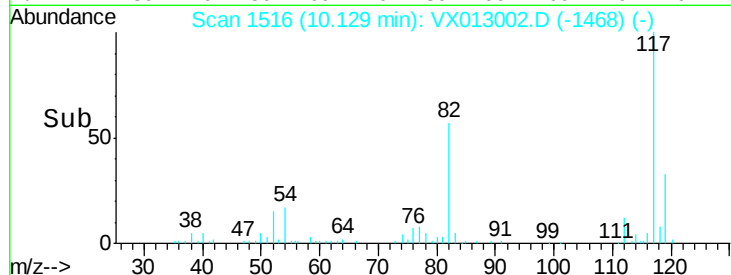
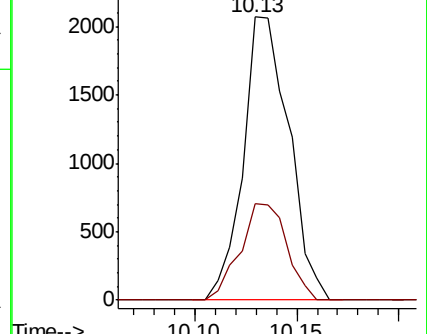
MMDadoda

10/14/2019 2:47:52 PM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 0.638 ug/l

RT: 10.22 min Scan# 1531

Delta R.T. 0.01 min

Lab File: VX013002.D

Acq: 10 Oct 2019 17:40

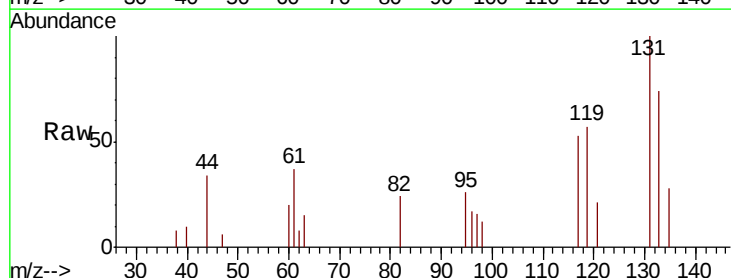
Tgt Ion:131 Resp: 1071

Ion Ratio Lower Upper

131 100

133 84.5 47.2 141.6

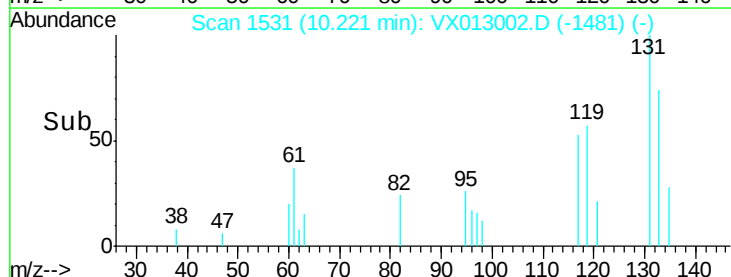
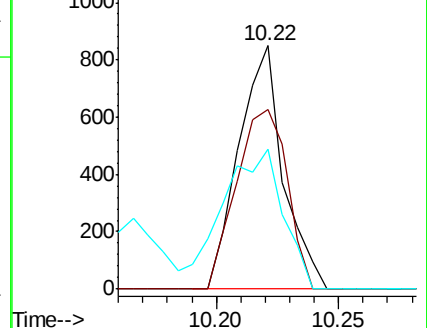
119 0.0 32.6 98.0#

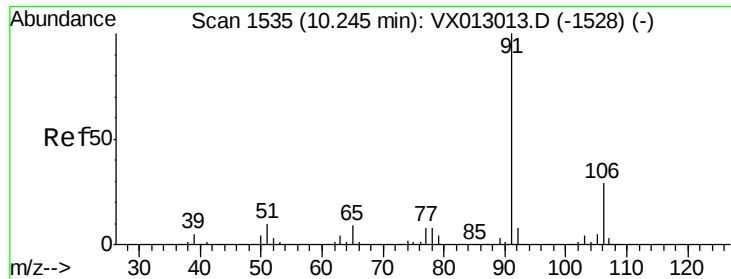


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 0.606 ug/l

RT: 10.25 min Scan# 1535

Delta R.T. 0.00 min

Lab File: VX013002.D

Acq: 10 Oct 2019 17:40

Instrument :

MSVOA_X

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 91 Resp: 5209

Ion Ratio Lower Upper

91 100

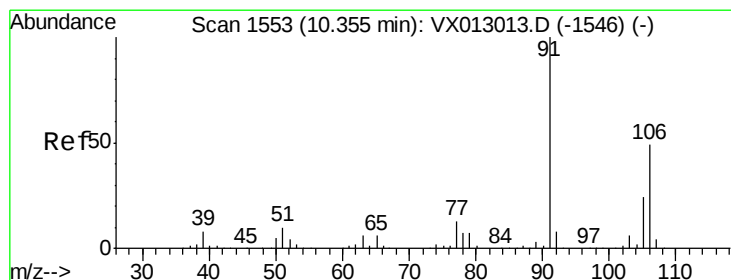
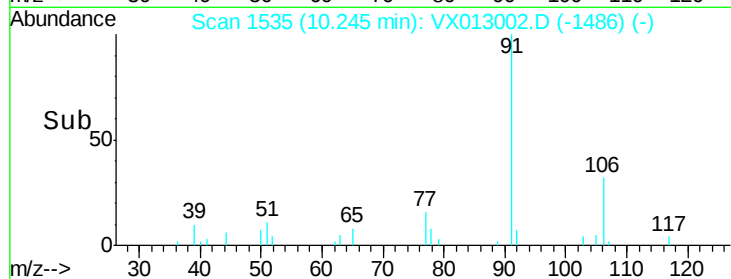
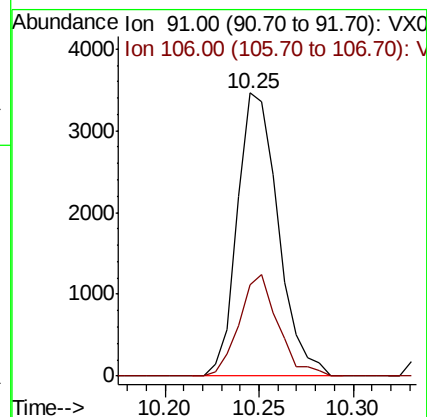
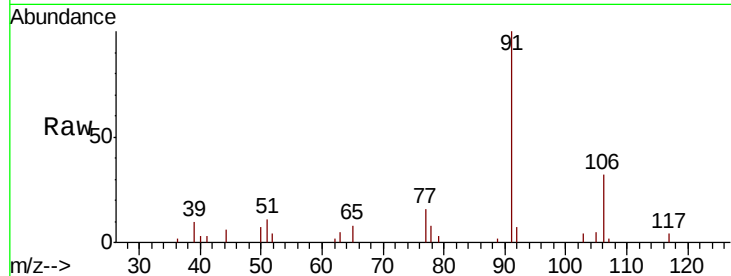
106 32.3 23.9 35.9

Manual Integrations

APPROVED

MMDadoda

10/14/2019 2:47:52 PM



#68

m/p-Xylenes

Concen: 1.176 ug/l

RT: 10.36 min Scan# 1554

Delta R.T. 0.01 min

Lab File: VX013002.D

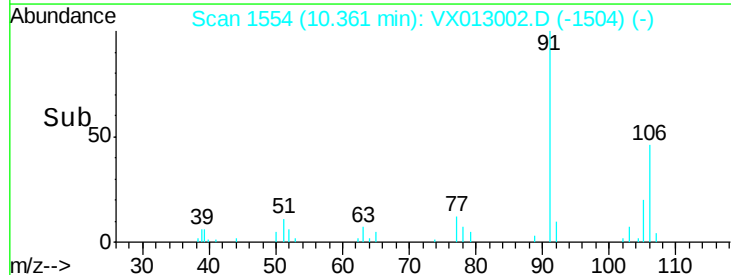
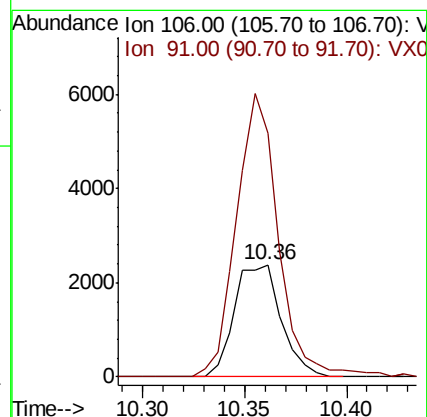
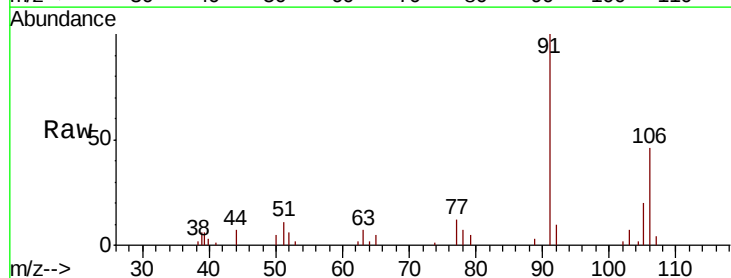
Acq: 10 Oct 2019 17:40

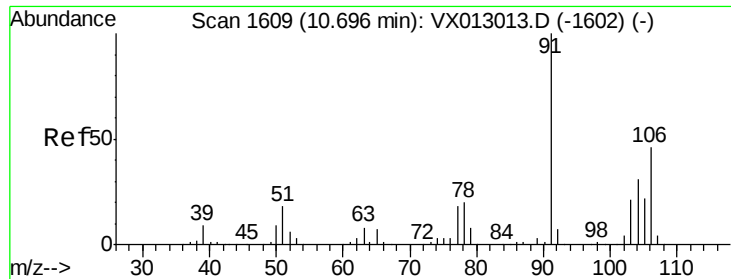
Tgt Ion: 106 Resp: 3776

Ion Ratio Lower Upper

106 100

91 228.1 165.3 247.9





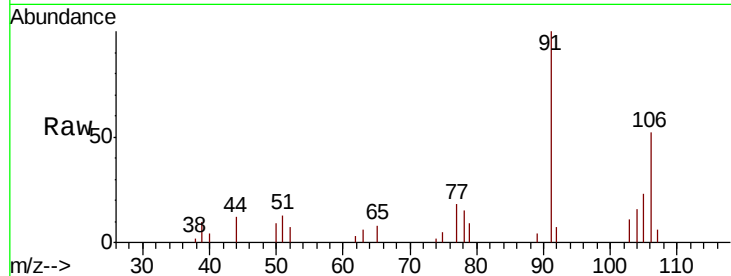
#69
o-Xylene
Concen: 0.591 ug/l
RT: 10.70 min Scan# 1609
Delta R.T. 0.00 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

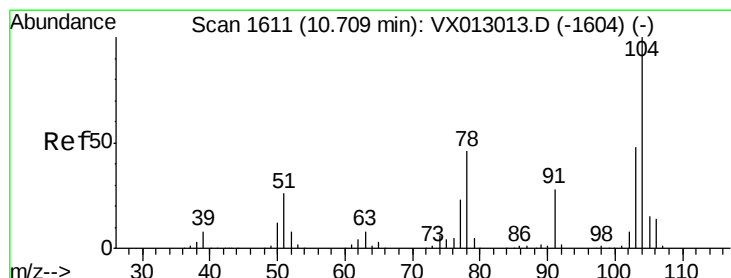
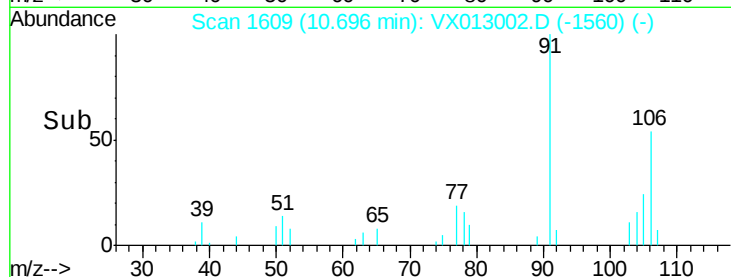
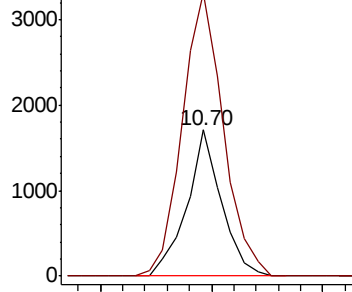
Tot Ion:106 Resp: 1850
Ion Ratio Lower Upper
106 100
91 228.9 109.1 327.3

Manual Integrations
APPROVED

MMDadoda
10/14/2019 2:47:52 PM

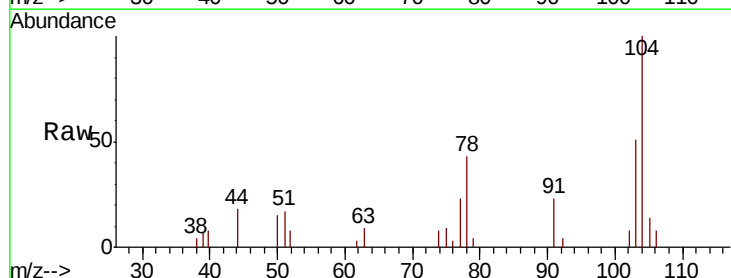


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

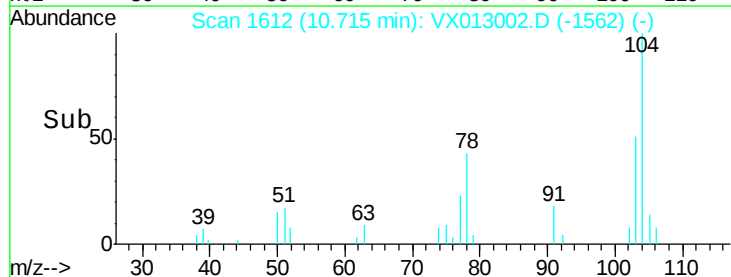
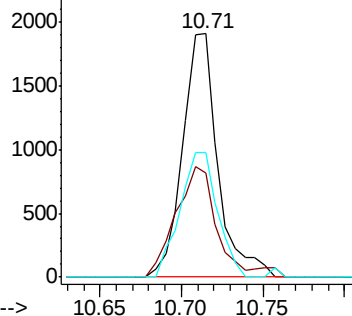


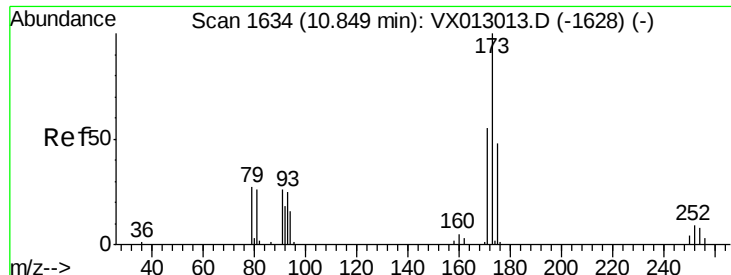
#70
Styrene
Concen: 0.542 ug/l
RT: 10.71 min Scan# 1612
Delta R.T. 0.01 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Tgt Ion:104 Resp: 2884
Ion Ratio Lower Upper
104 100
78 53.5 41.2 61.8
103 54.2 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





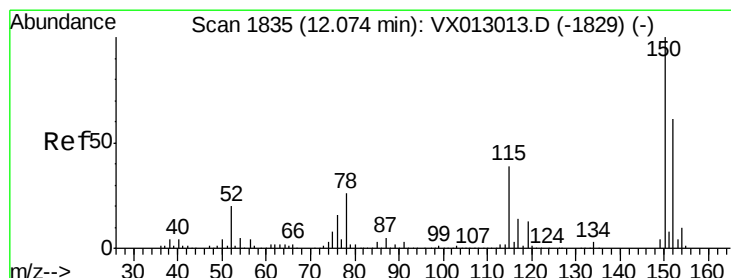
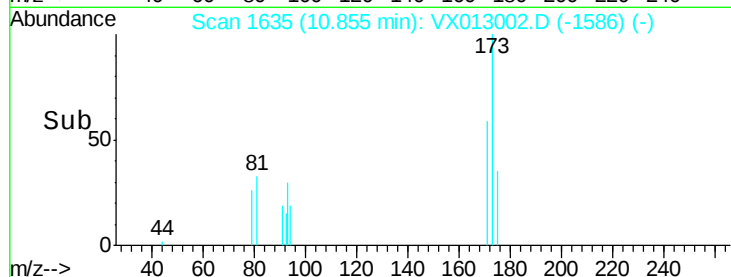
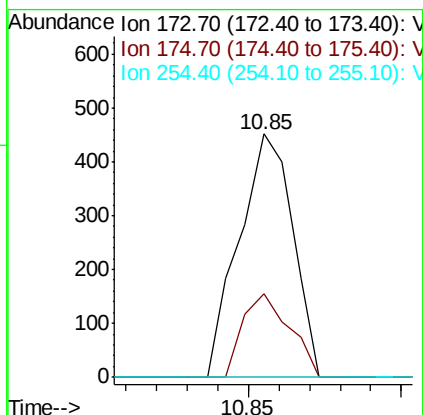
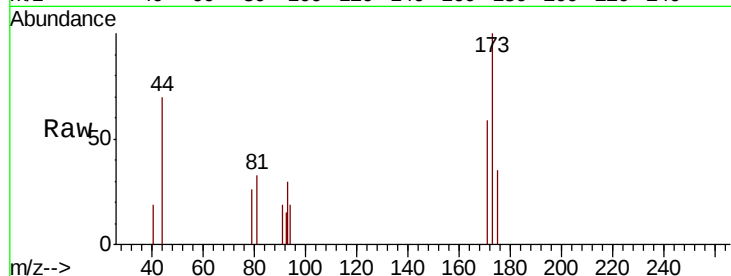
#71
Bromoform
Concen: 0.455 ug/l
RT: 10.85 min Scan# 1635
Delta R.T. 0.00 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
173	100		
175	29.8	24.1	72.3
254	0.0	0.1	0.1#

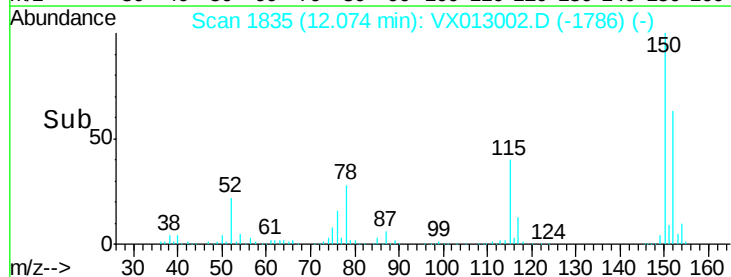
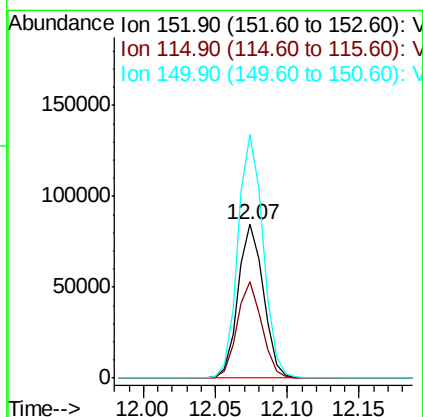
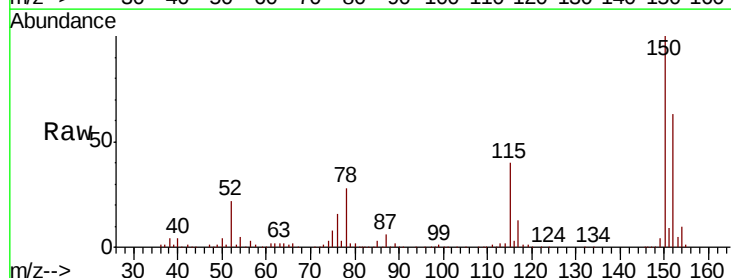
Manual Integrations
APPROVED

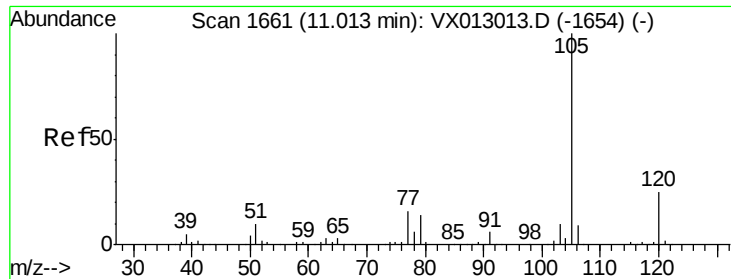
MMDadoda
10/14/2019 2:47:52 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Tgt Ion	Ratio	Lower	Upper
152	100		
115	61.5	44.5	133.5
150	157.5	0.0	353.4





#73

Isopropylbenzene

Concen: 0.597 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VX013002.D

Acq: 10 Oct 2019 17:40

Instrument :

MSVOA_X

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 105 Resp: 4552

Ion Ratio Lower Upper

105 100

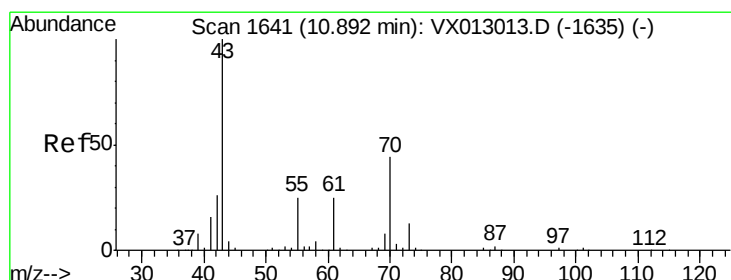
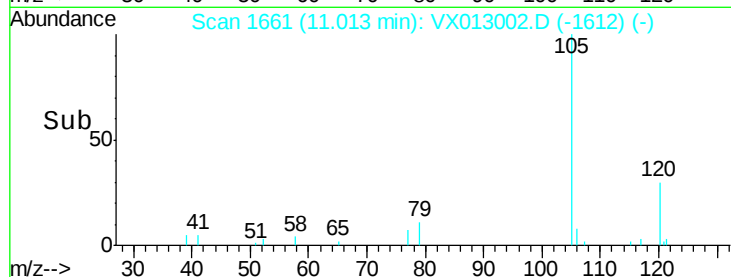
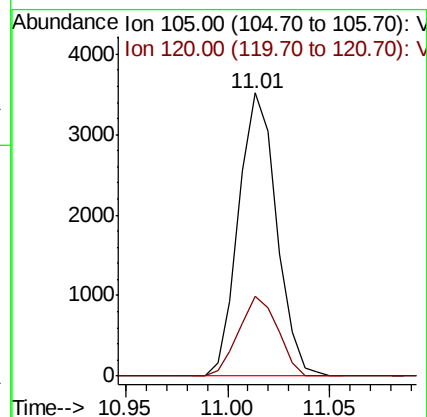
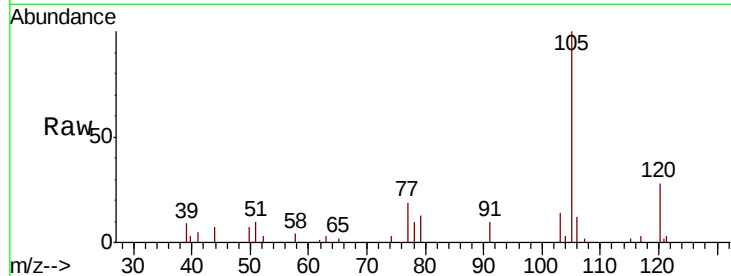
120 28.8 13.0 39.0

Manual Integrations

APPROVED

MMDadoda

10/14/2019 2:47:52 PM



#74

N-ethyl acetate

Concen: 0.551 ug/l

RT: 10.90 min Scan# 1642

Delta R.T. 0.01 min

Lab File: VX013002.D

Acq: 10 Oct 2019 17:40

Tgt Ion: 43 Resp: 1812

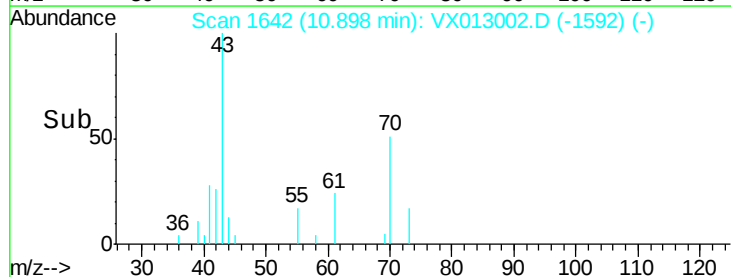
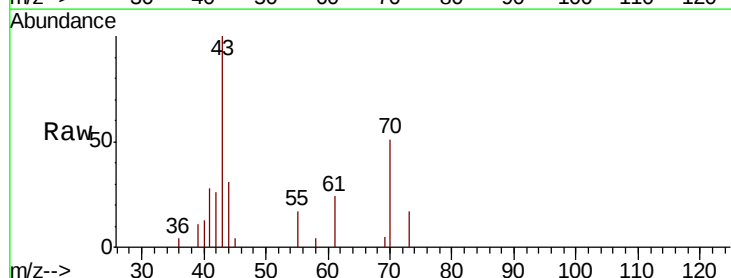
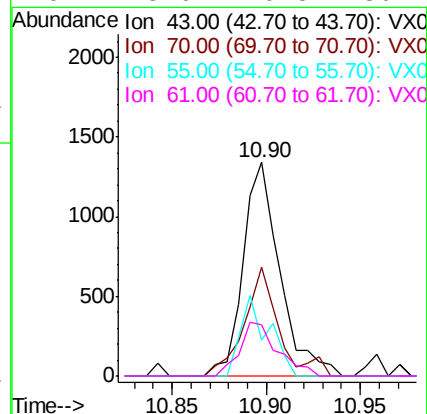
Ion Ratio Lower Upper

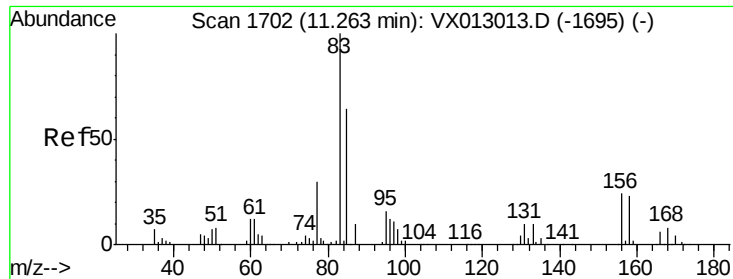
43 100

70 47.7 36.4 54.6

55 28.8 20.2 30.2

61 25.9 20.5 30.7





#75

1,1,2,2-Tetrachloroethane

Concen: 0.626 ug/l

RT: 11.26 min Scan# 1702

Delta R.T. 0.00 min

Lab File: VX013002.D

Acq: 10 Oct 2019 17:40

Instrument :

MSVOA_X

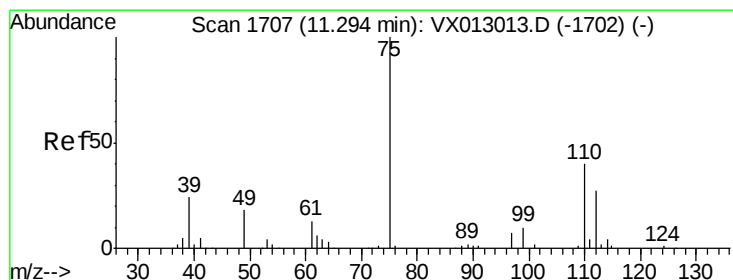
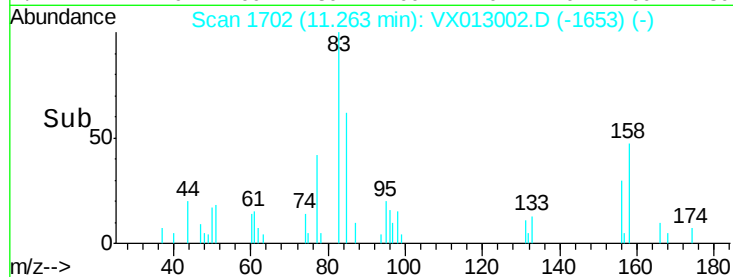
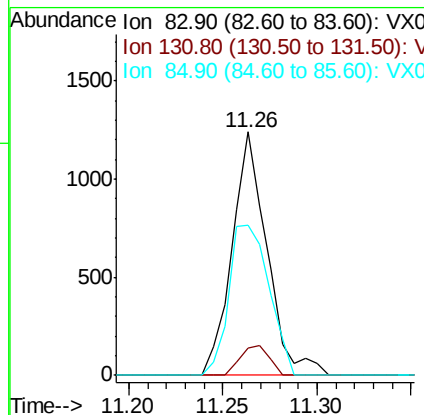
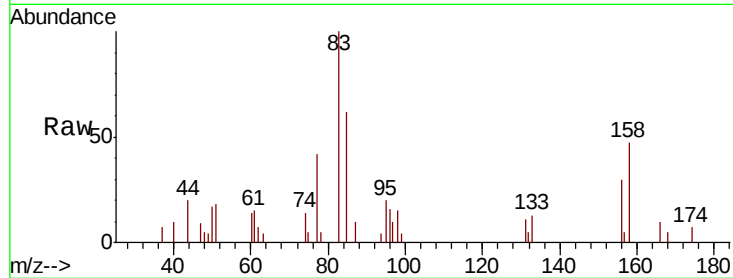
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	83	Resp:	1590
Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.1	15.3
85	71.3	32.1	96.5

Manual Integrations
APPROVED

MMDadoda
10/14/2019 2:47:52 PM



#76

1,2,3-Trichloropropane

Concen: 0.684 ug/l m

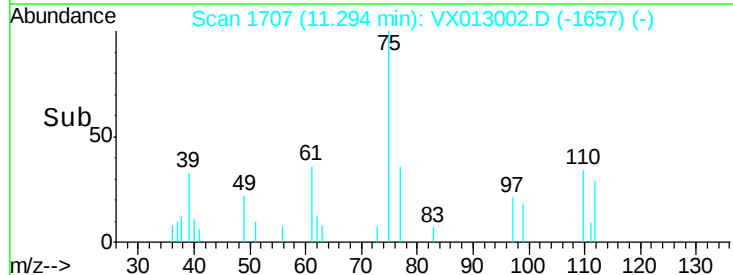
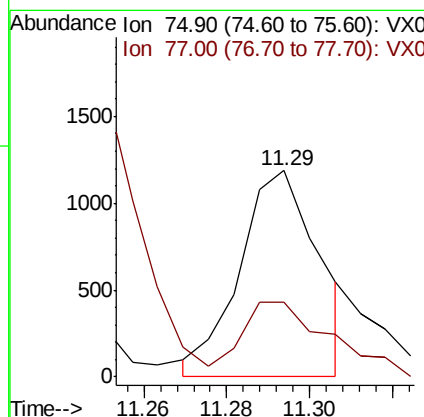
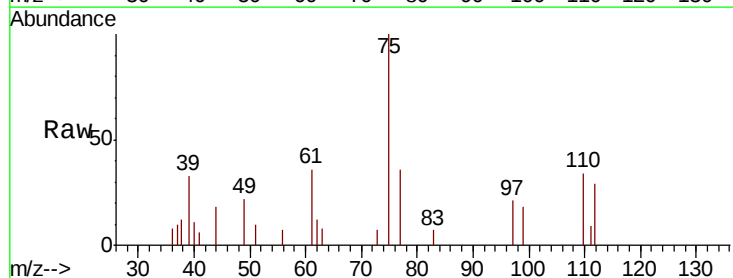
RT: 11.29 min Scan# 1707

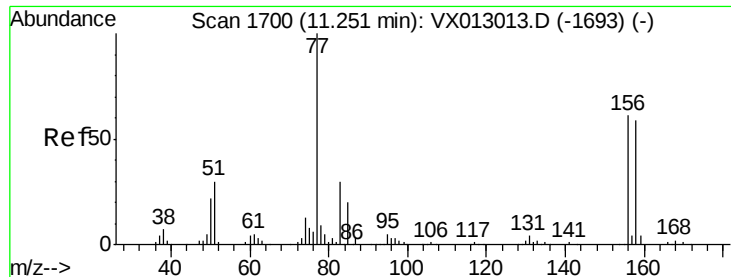
Delta R.T. 0.01 min

Lab File: VX013002.D

Acq: 10 Oct 2019 17:40

Tgt Ion:	75	Resp:	1574
Ion	Ratio	Lower	Upper
75	100		
77	41.2	22.9	68.8





#77

Bromobenzene

Concen: 0.652 ug/l

RT: 11.25 min Scan# 1700

Delta R.T. 0.00 min

Lab File: VX013002.D

Acq: 10 Oct 2019 17:40

Instrument :

MSVOA_X

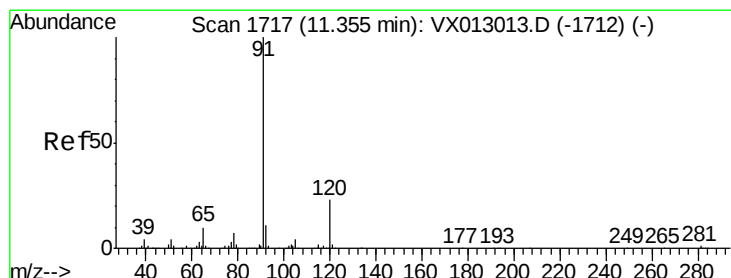
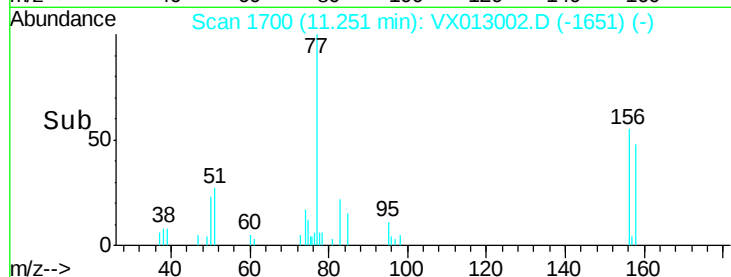
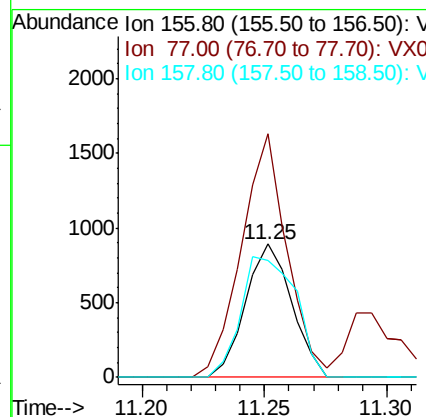
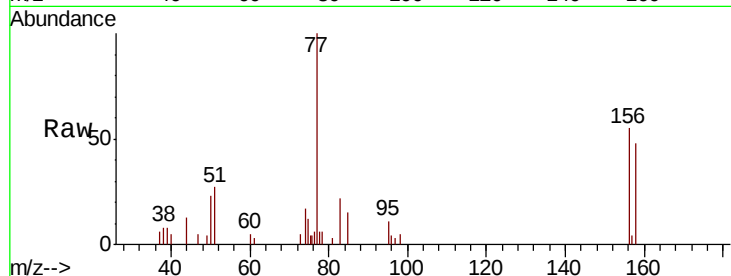
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
156	100		
77	181.0	83.7	251.0
158	107.6	48.6	145.9

Manual Integrations
APPROVED

MMDadoda
10/14/2019 2:47:52 PM



#78

n-propylbenzene

Concen: 0.617 ug/l

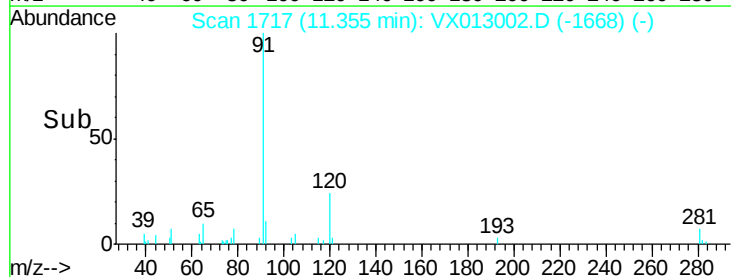
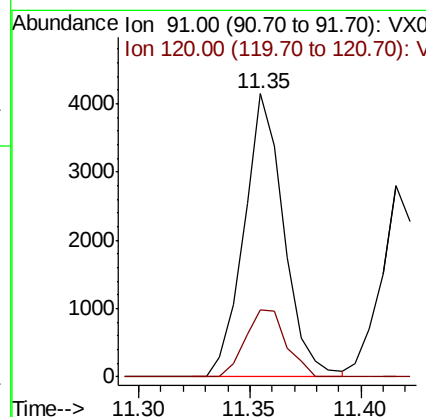
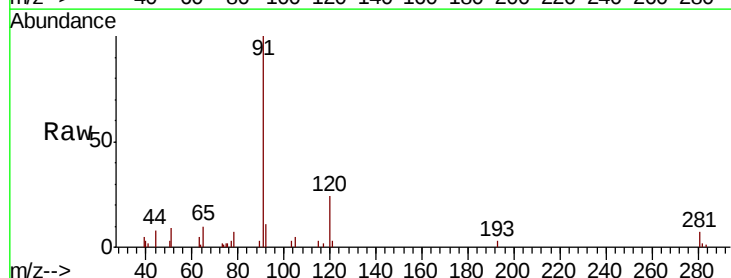
RT: 11.35 min Scan# 1717

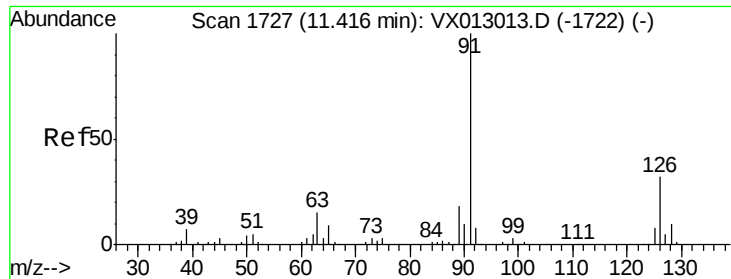
Delta R.T. 0.00 min

Lab File: VX013002.D

Acq: 10 Oct 2019 17:40

Tgt Ion	Ratio	Lower	Upper
91	100		
120	24.1	11.7	35.1





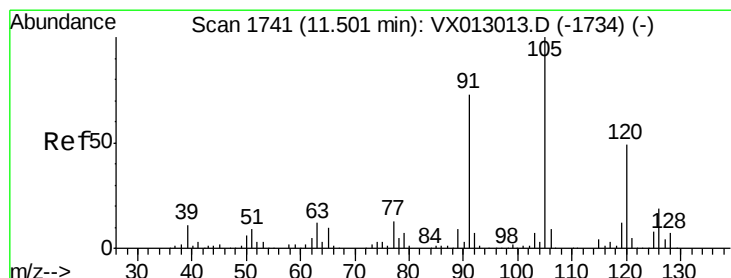
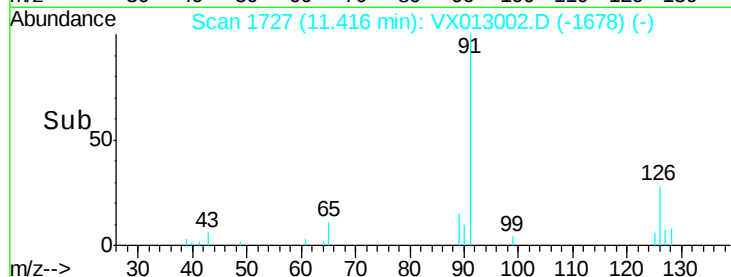
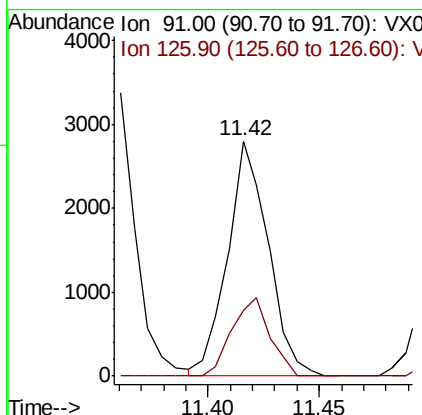
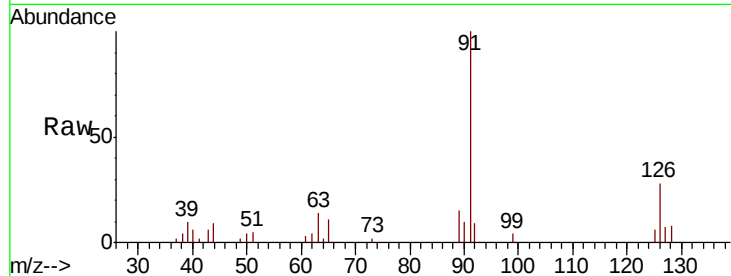
#79
2-Chlorotoluene
Concen: 0.675 ug/l
RT: 11.42 min Scan# 1727
Delta R.T. 0.00 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 91 Resp: 3560
Ion Ratio Lower Upper
91 100
126 31.0 16.3 48.8

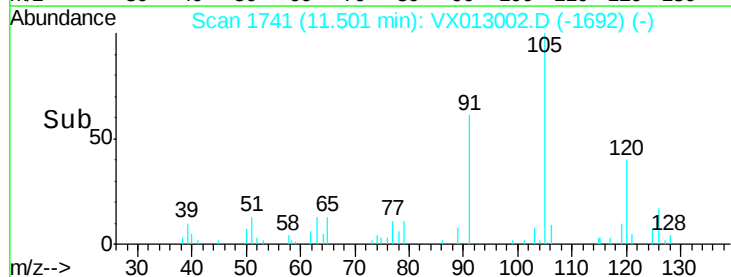
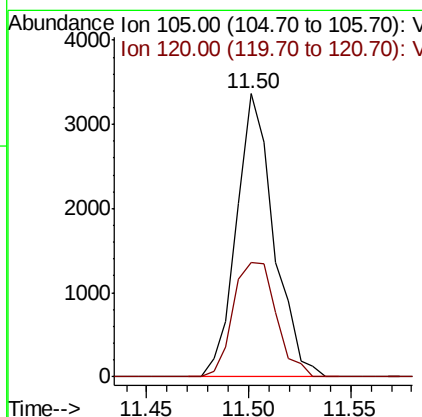
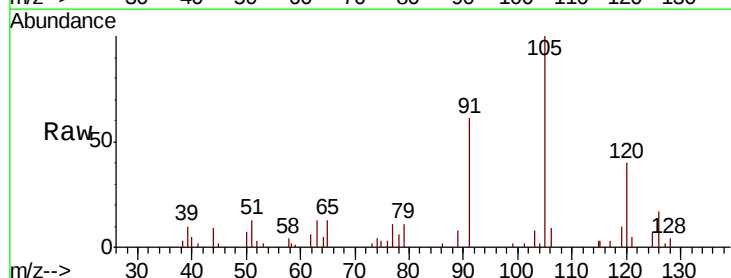
Manual Integrations
APPROVED

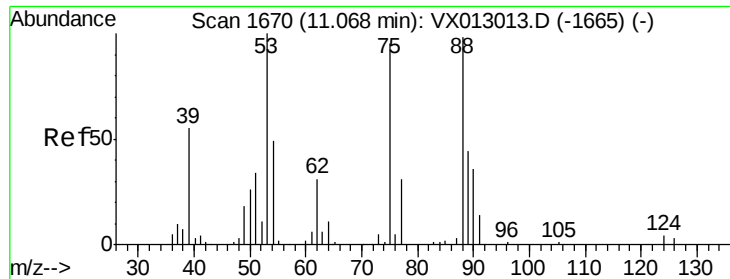
MMDadoda
10/14/2019 2:47:52 PM



#80
1,3,5-Trimethylbenzene
Concen: 0.670 ug/l
RT: 11.50 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Tgt Ion: 105 Resp: 4266
Ion Ratio Lower Upper
105 100
120 46.6 24.8 74.3





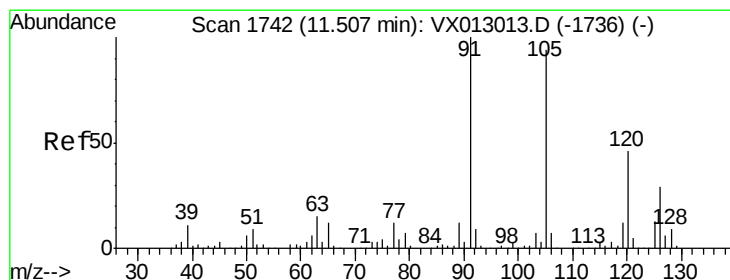
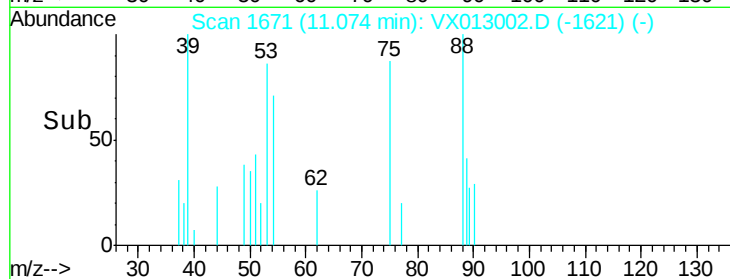
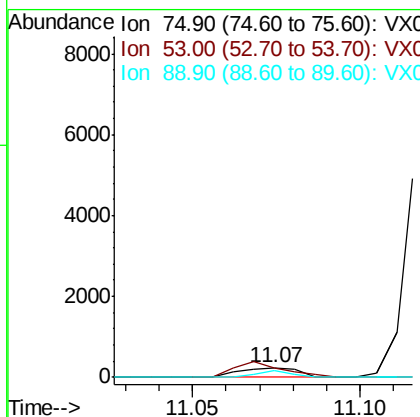
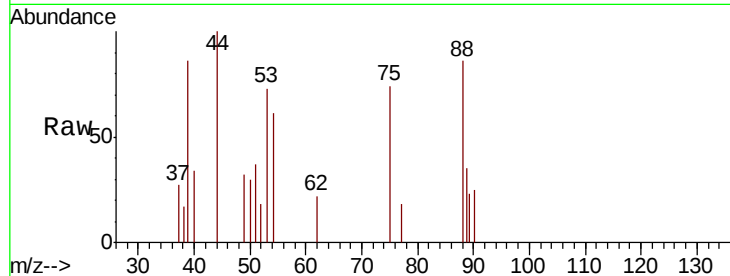
#81
trans-1,4-Dichloro-2-butene
Concen: 0.352 ug/l m
RT: 11.07 min Scan# 1671
Delta R.T. 0.01 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 75 Resp: 286
Ion Ratio Lower Upper
75 100
53 0.0 78.5 117.7#
89 26.6 37.4 56.2#

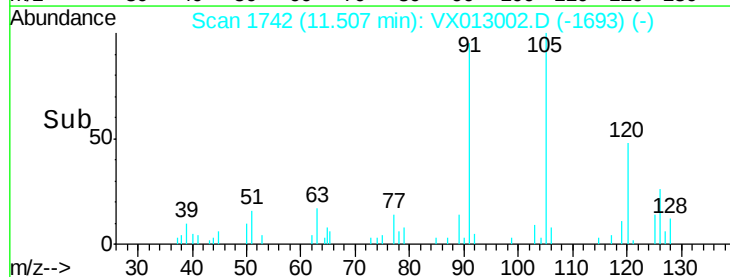
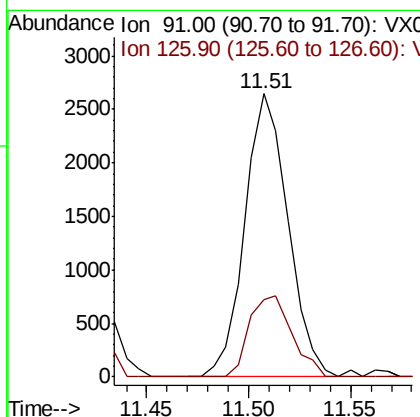
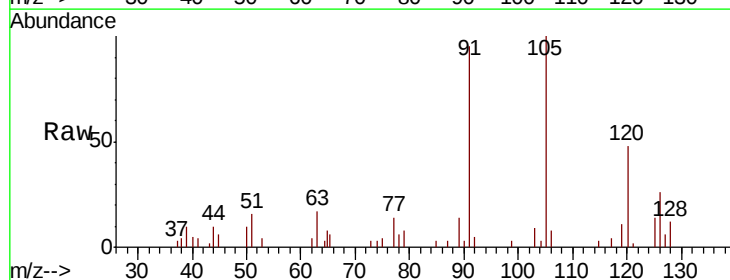
Manual Integrations
APPROVED

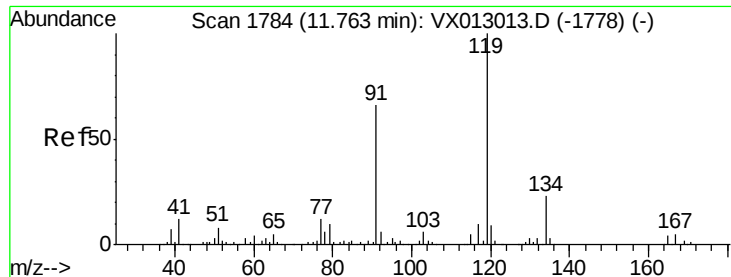
MMDadoda
10/14/2019 2:47:52 PM



#82
4-Chlorotoluene
Concen: 0.643 ug/l
RT: 11.51 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Tgt Ion: 91 Resp: 3890
Ion Ratio Lower Upper
91 100
126 28.4 14.2 42.6





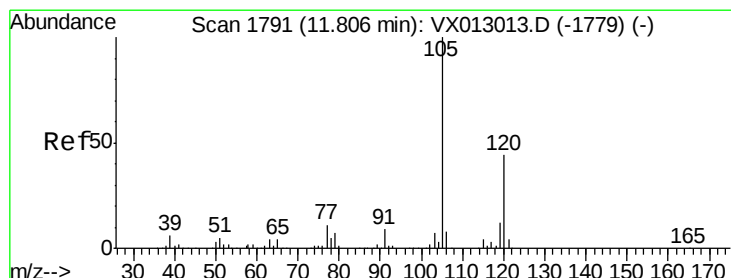
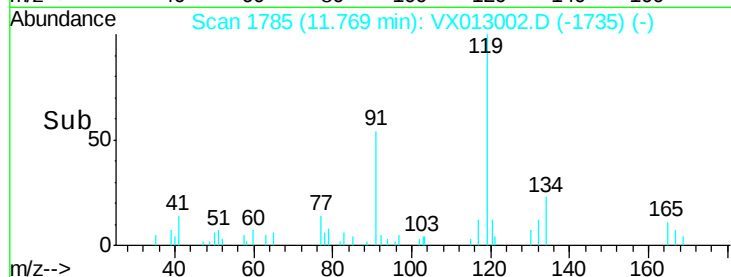
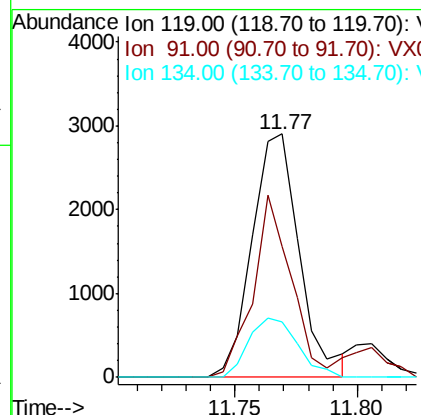
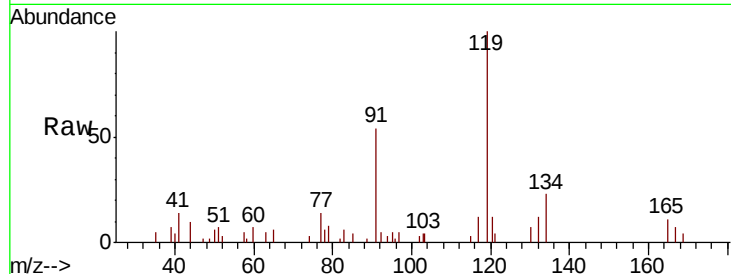
#83
 tert-Butylbenzene
 Concen: 0.631 ug/l
 RT: 11.77 min Scan# 1785
 Delta R.T. 0.01 min
 Lab File: VX013002.D
 Acq: 10 Oct 2019 17:40

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
119	100		
91	60.4	29.3	87.9
134	25.2	11.5	34.4

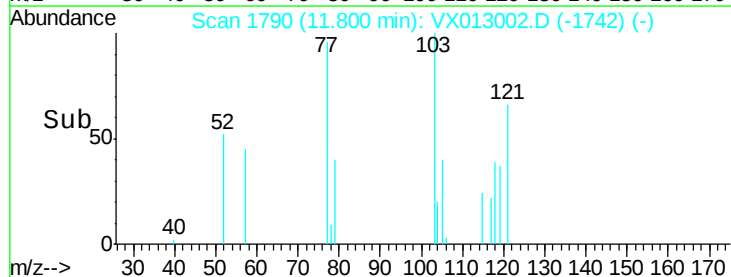
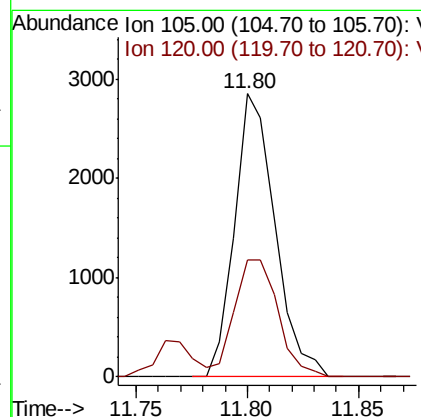
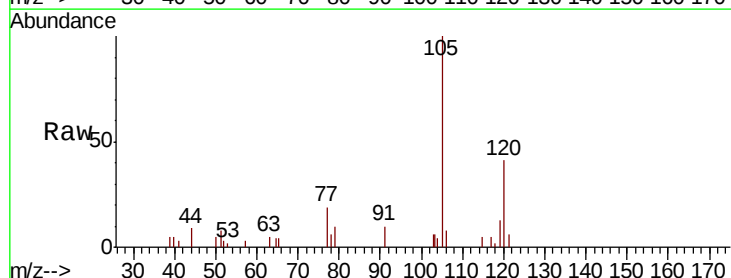
Manual Integrations
 APPROVED

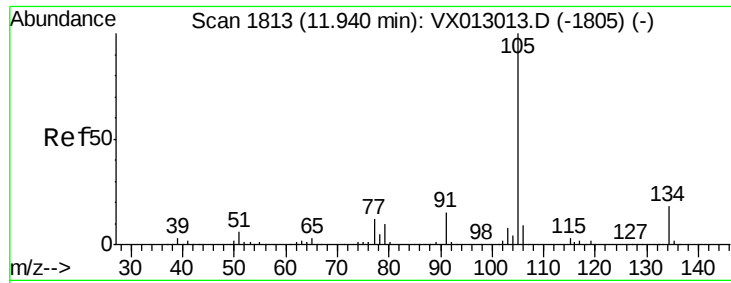
MMDadoda
 10/14/2019 2:47:52 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 0.559 ug/l
 RT: 11.80 min Scan# 1790
 Delta R.T. -0.01 min
 Lab File: VX013002.D
 Acq: 10 Oct 2019 17:40

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.9	21.8	65.3





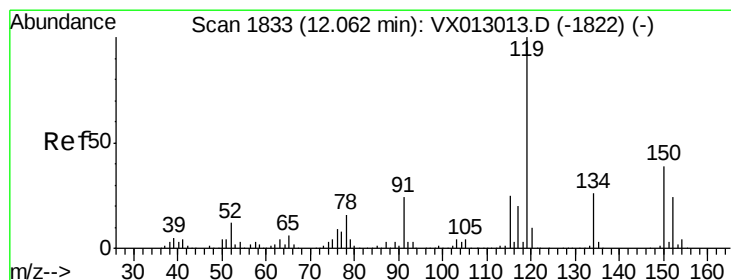
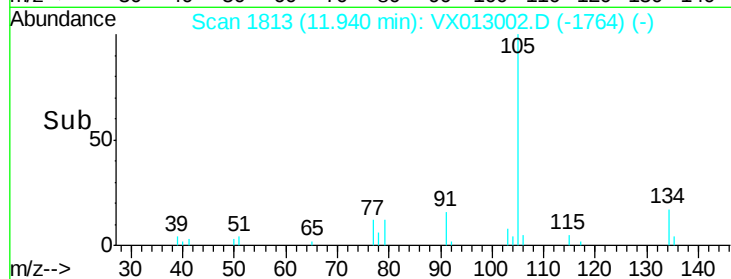
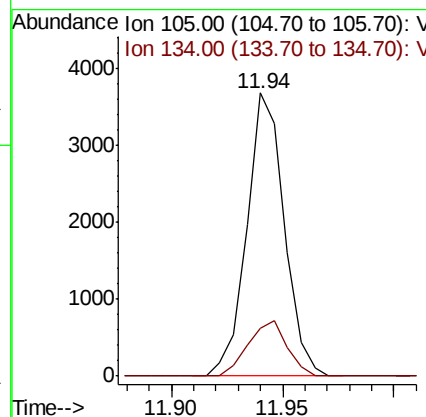
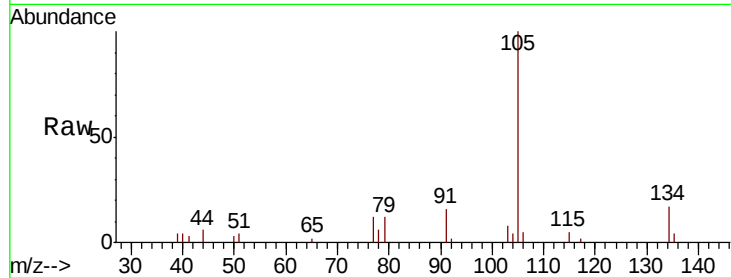
#85
 sec-Butylbenzene
 Concen: 0.599 ug/l
 RT: 11.94 min Scan# 1813
 Delta R.T. 0.00 min
 Lab File: VX013002.D
 Acq: 10 Oct 2019 17:40

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion:105 Resp: 4312
 Ion Ratio Lower Upper
 105 100
 134 20.4 10.0 30.0

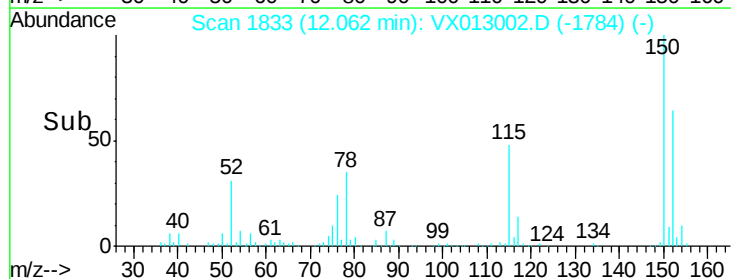
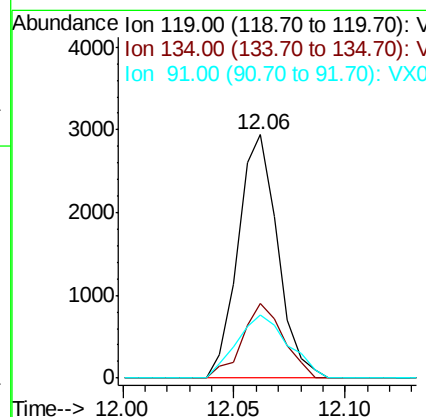
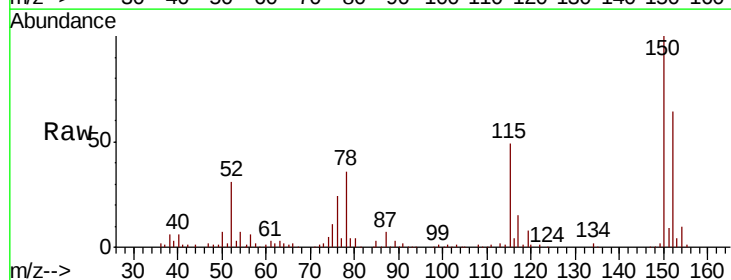
Manual Integrations
 APPROVED

MMDadoda
 10/14/2019 2:47:52 PM



#86
 p-Isopropyltoluene
 Concen: 0.545 ug/l
 RT: 12.06 min Scan# 1833
 Delta R.T. 0.00 min
 Lab File: VX013002.D
 Acq: 10 Oct 2019 17:40

Tgt Ion:119 Resp: 3640
 Ion Ratio Lower Upper
 119 100
 134 32.1 12.6 37.8
 91 34.0 12.4 37.4





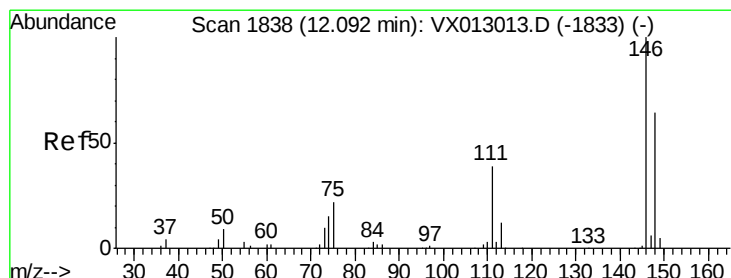
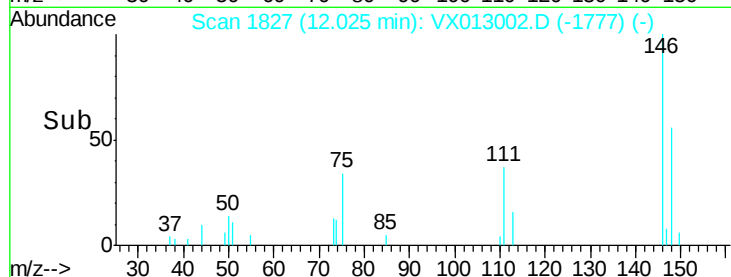
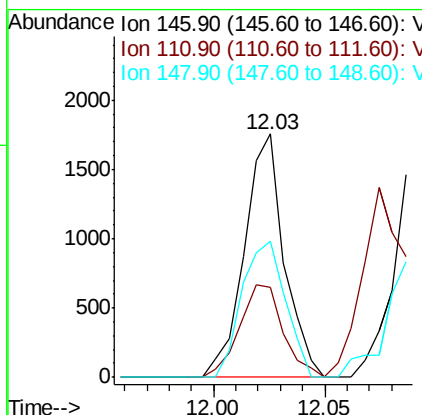
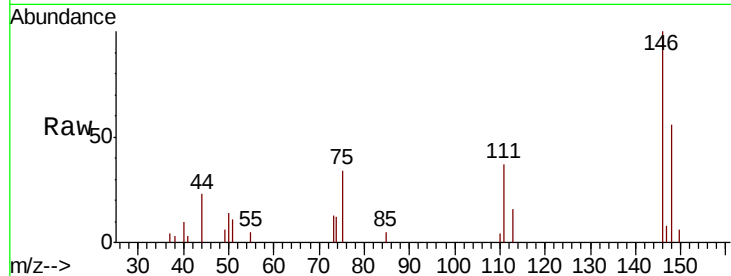
#87
 1,3-Dichlorobenzene
 Concen: 0.656 ug/l
 RT: 12.03 min Scan# 1827
 Delta R.T. 0.01 min
 Lab File: VX013002.D
 Acq: 10 Oct 2019 17:40

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.7	21.1	63.4
148	61.1	31.6	95.0

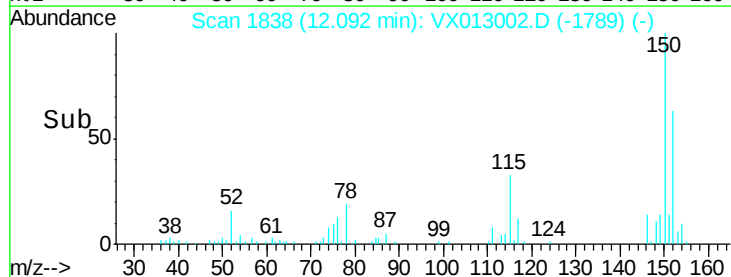
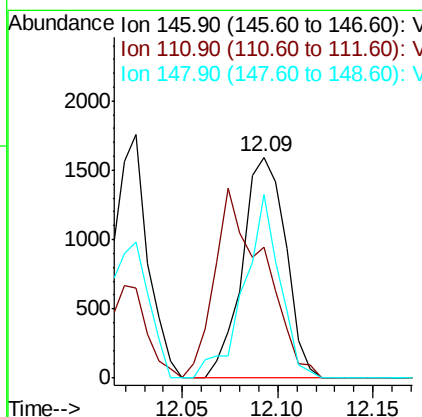
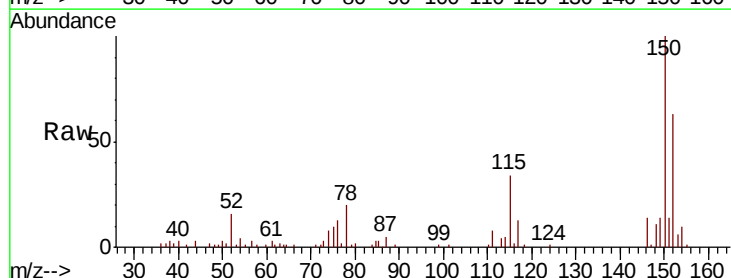
Manual Integrations
 APPROVED

MMDadoda
 10/14/2019 2:47:52 PM



#88
 1,4-Dichlorobenzene
 Concen: 0.737 ug/l m
 RT: 12.09 min Scan# 1838
 Delta R.T. 0.00 min
 Lab File: VX013002.D
 Acq: 10 Oct 2019 17:40

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.6	21.4	64.3
148	53.7	32.1	96.5





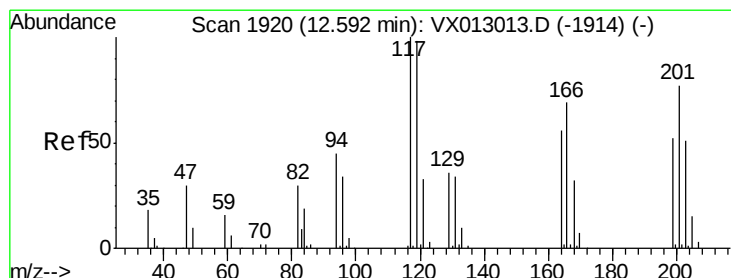
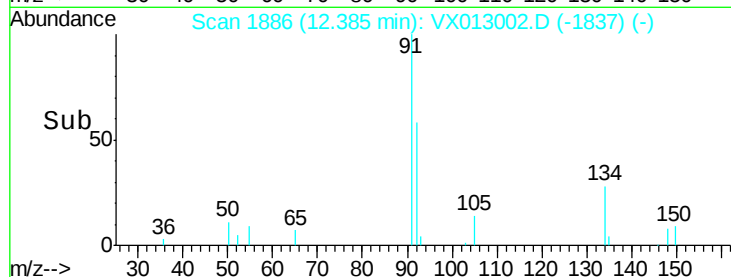
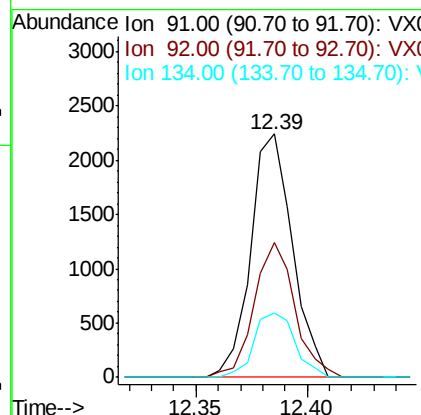
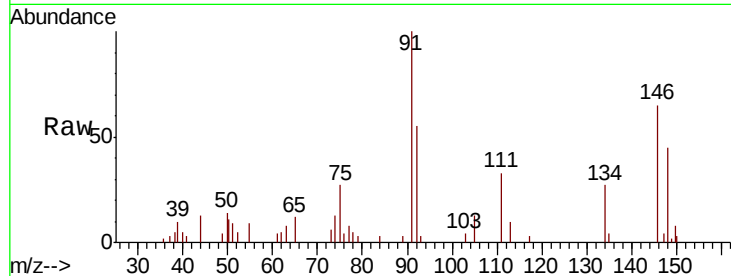
#89
n-Butylbenzene
Concen: 0.523 ug/l
RT: 12.39 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
91	100		
92	54.2	27.5	82.5
134	26.2	12.9	38.7

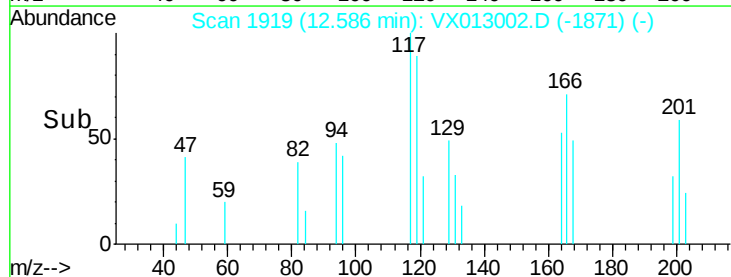
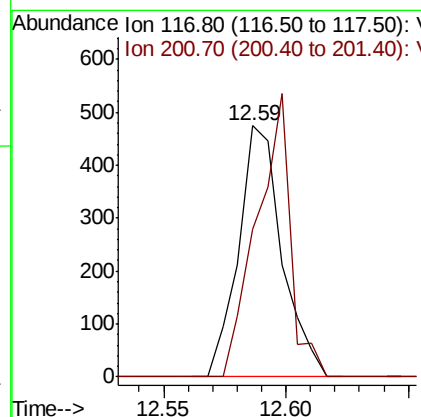
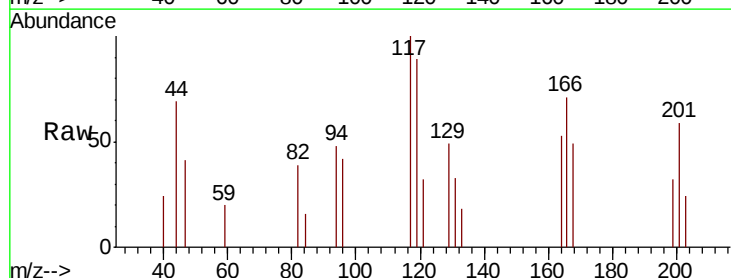
Manual Integrations
APPROVED

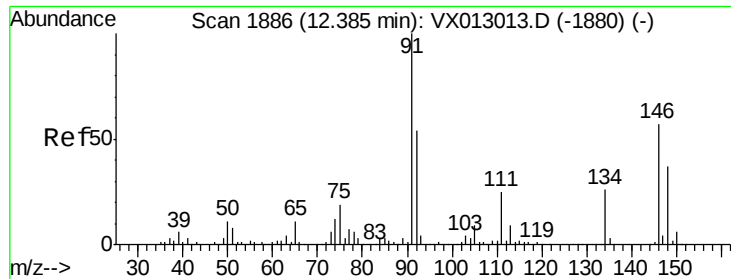
MMDadoda
10/14/2019 2:47:52 PM



#90
Hexachloroethane
Concen: 0.543 ug/l
RT: 12.59 min Scan# 1919
Delta R.T. -0.01 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Tgt Ion	Ratio	Lower	Upper
117	100		
201	87.9	36.9	110.7





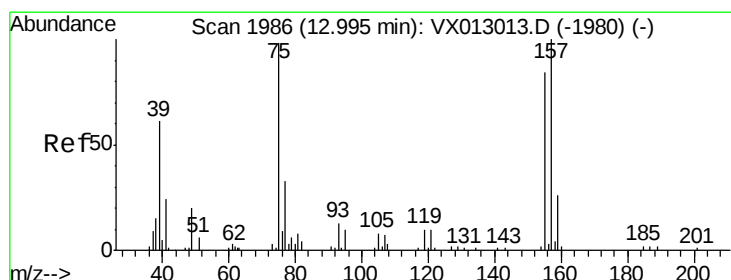
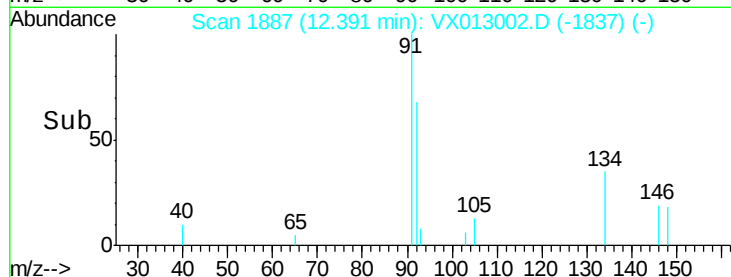
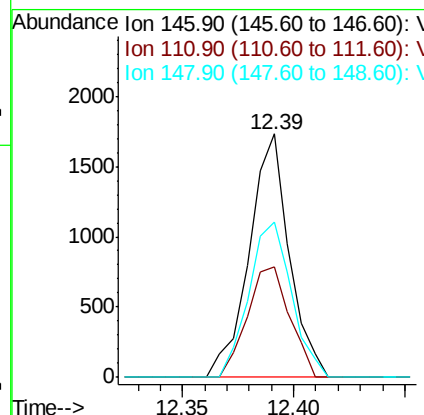
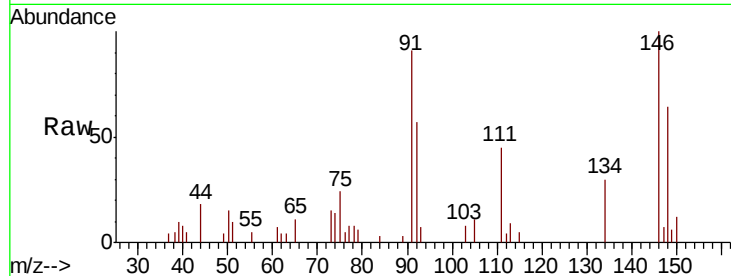
#91
 1,2-Dichlorobenzene
 Concen: 0.663 ug/l
 RT: 12.39 min Scan# 1887
 Delta R.T. 0.01 min
 Lab File: VX013002.D
 Acq: 10 Oct 2019 17:40

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.1	22.7	68.0
148	68.0	31.6	94.7

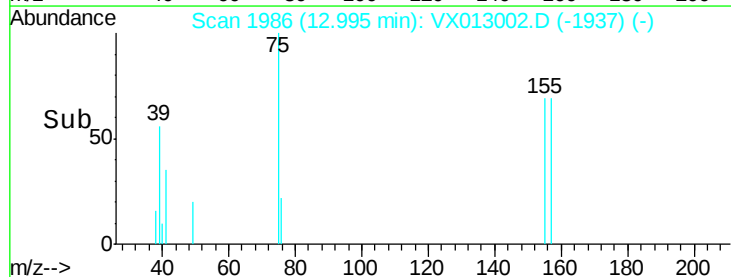
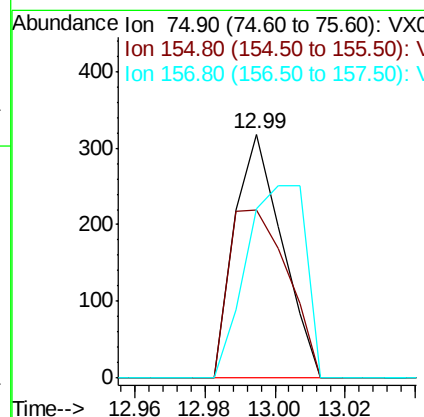
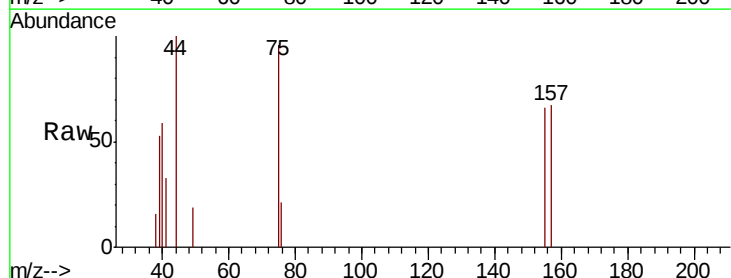
Manual Integrations
 APPROVED

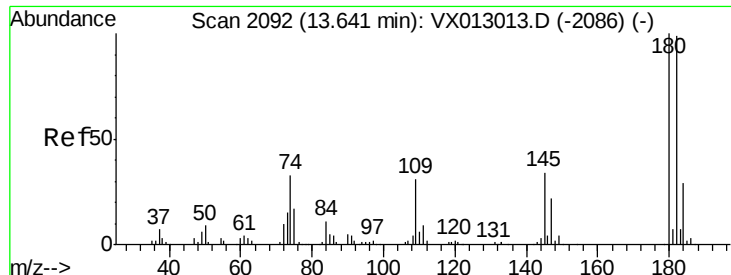
MMDadoda
 10/14/2019 2:47:52 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.503 ug/l
 RT: 12.99 min Scan# 1986
 Delta R.T. 0.00 min
 Lab File: VX013002.D
 Acq: 10 Oct 2019 17:40

Tgt Ion	Ratio	Lower	Upper
75	100		
155	86.0	43.0	128.8
157	99.3	54.1	162.3





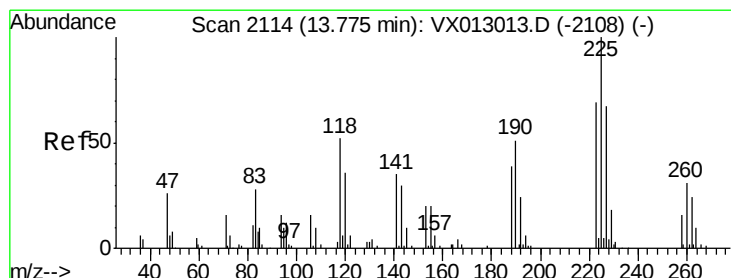
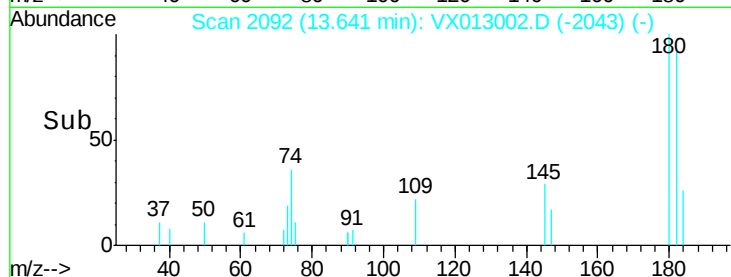
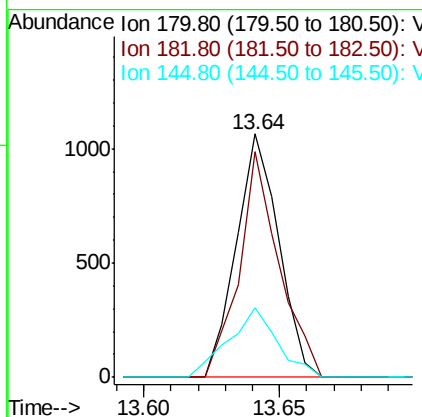
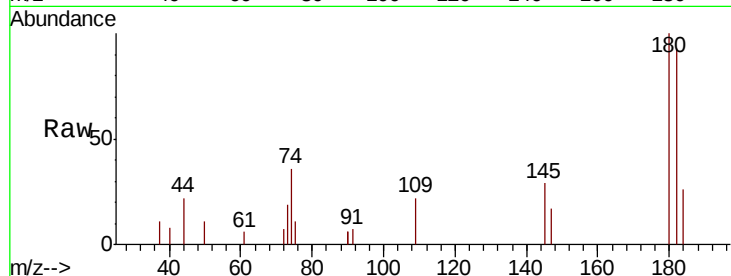
#93
 1,2,4-Trichlorobenzene
 Concen: 0.561 ug/l
 RT: 13.64 min Scan# 2092
 Delta R.T. 0.00 min
 Lab File: VX013002.D
 Acq: 10 Oct 2019 17:40

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
180	100		
182	87.0	46.8	140.4
145	33.1	16.2	48.6

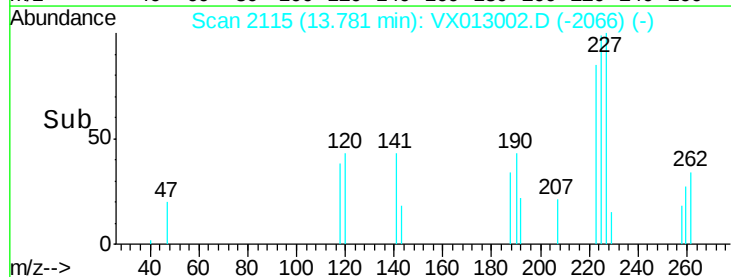
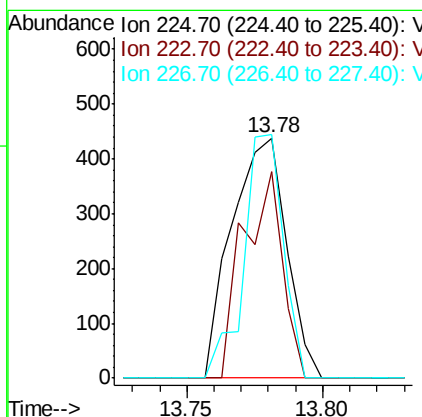
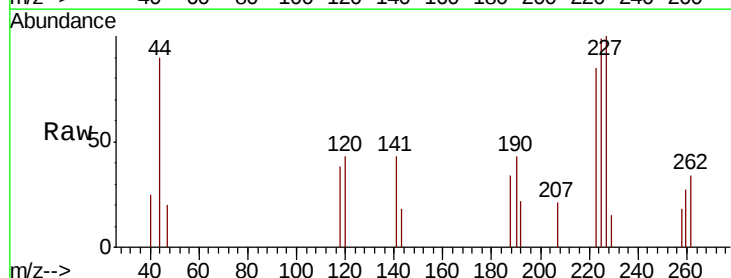
Manual Integrations
 APPROVED

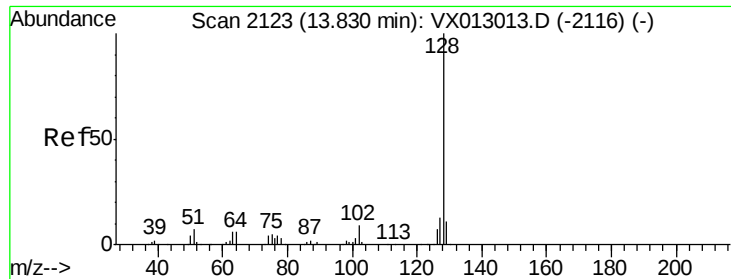
MMDadoda
 10/14/2019 2:47:52 PM



#94
 Hexachlorobutadiene
 Concen: 0.648 ug/l
 RT: 13.78 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VX013002.D
 Acq: 10 Oct 2019 17:40

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.5	31.1	93.2
227	72.9	32.3	96.9





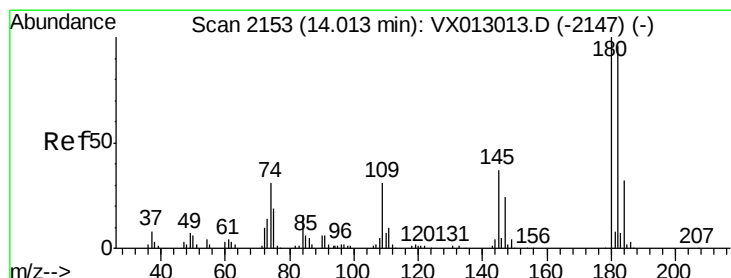
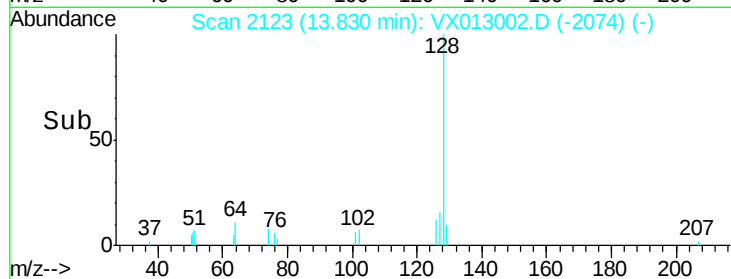
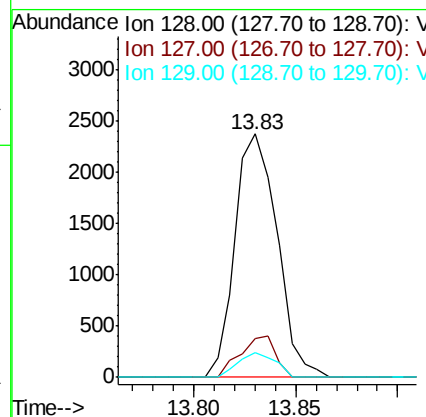
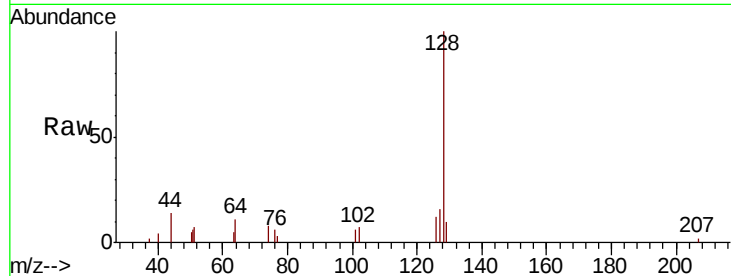
#95
Naphthalene
Concen: 0.478 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.2	10.2	15.4
129	8.9	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
10/14/2019 2:47:52 PM



#96
1,2,3-Trichlorobenzene
Concen: 0.539 ug/l
RT: 14.01 min Scan# 2153
Delta R.T. 0.00 min
Lab File: VX013002.D
Acq: 10 Oct 2019 17:40

Tgt Ion	Ratio	Lower	Upper
180	100		
182	106.8	47.5	142.5
145	32.7	17.4	52.3

