

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101519\
 Data File : VX013074.D
 Acq On : 15 Oct 2019 13:44
 Operator : JC/SP
 Sample : K5111-09 0.2PPB MDL
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Manual Integrations
 APPROVED

MMDadoda
 10/16/2019 9:57:45 AM

Quant Time: Oct 16 07:13:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 07:02:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	163100	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	276837	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	241971	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	103499	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	106529	52.26	ug/l	0.00
Spiked Amount			Recovery	=	104.52%	
35) Dibromofluoromethane	5.49	113	81031	51.00	ug/l	0.00
Spiked Amount			Recovery	=	102.00%	
50) Toluene-d8	8.71	98	306040	49.38	ug/l	0.00
Spiked Amount			Recovery	=	98.76%	
62) 4-Bromofluorobenzene	11.14	95	110630	45.94	ug/l	0.00
Spiked Amount			Recovery	=	91.88%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	365	0.202	ug/l #	63
4) Vinyl Chloride	1.40	62	402	0.215	ug/l #	74
5) Bromomethane	1.64	94	581	0.748	ug/l #	63
6) Chloroethane	1.70	64	474	0.431	ug/l #	43
7) Trichlorofluoromethane	1.92	101	565	0.224	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	2.38	101	352	0.216	ug/l #	69
10) Methyl Iodide	2.51	142	596	0.371	ug/l #	81
11) Tert butyl alcohol	3.01	59	3170	5.866	ug/l #	72
13) Acrolein	2.28	56	419	1.091	ug/l #	54
14) Allyl chloride	2.72	41	592	0.202	ug/l	90
15) Acrylonitrile	3.14	53	1004	0.980	ug/l #	92
16) Acetone	2.43	43	1246	1.160	ug/l	99
17) Carbon Disulfide	2.56	76	1271	0.270	ug/l #	91
18) Methyl Acetate	2.76	43	720	0.283	ug/l	98
20) Methylene Chloride	2.84	84	713	0.361	ug/l #	70
21) trans-1,2-Dichloroethene	3.16	96	452	0.256	ug/l #	87
22) Diisopropyl ether	3.85	45	1134	0.202	ug/l #	88
23) Vinyl Acetate	3.80	43	3759	0.774	ug/l #	94
25) 2-Butanone	4.68	43	1450m	0.973	ug/l	
26) 2,2-Dichloropropane	4.58	77	589	0.221	ug/l #	53
27) cis-1,2-Dichloroethene	4.59	96	565	0.277	ug/l	82
29) Tetrahydrofuran	5.15	42	799m	0.871	ug/l	
30) Chloroform	5.20	83	1004	0.309	ug/l #	59
38) Carbon Tetrachloride	5.65	117	17167	7.246	ug/l #	18
39) Methylcyclohexane	7.46	83	647	0.219	ug/l #	55
40) Benzene	6.13	78	1552	0.216	ug/l #	90
42) 1,2-Dichloroethane	6.19	62	761m	0.295	ug/l	
44) Trichloroethene	7.23	130	498	0.250	ug/l	46
46) Dibromomethane	7.66	93	290	0.238	ug/l #	53
47) Bromodichloromethane	7.89	83	480	0.201	ug/l #	67
49) 1,4-Dioxane	7.75	88	109	2.118	ug/l #	34
51) 4-Methyl-2-Pentanone	8.64	43	2275	0.835	ug/l	97
52) Toluene	8.78	92	987	0.215	ug/l	85
58) 2-Chloroethyl Vinyl ether	8.32	63	979	0.732	ug/l #	85

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101519\
 Data File : VX013074.D
 Acq On : 15 Oct 2019 13:44
 Operator : JC/SP
 Sample : K5111-09 0.2PPB MDL
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Manual Integrations
 APPROVED

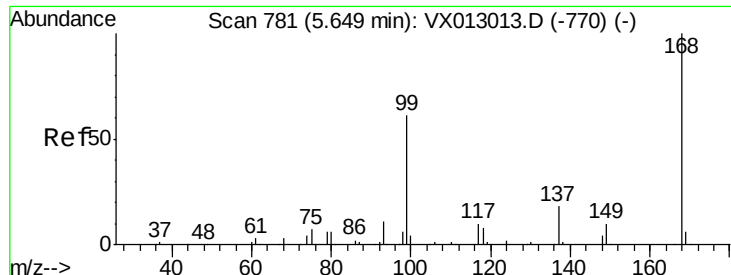
MMDadoda
 10/16/2019 9:57:45 AM

Quant Time: Oct 16 07:13:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 07:02:20 2019
 Response via : Initial Calibration

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

59) 2-Hexanone	9.50	43	1542	0.727	ug/l	94
64) Tetrachloroethene	9.33	164	454	0.271	ug/l #	71
65) Chlorobenzene	10.13	112	1058	0.220	ug/l	97
67) Ethyl Benzene	10.25	91	1716	0.201	ug/l	98
68) m/p-Xylenes	10.36	106	1256	0.394	ug/l	99
69) o-Xylene	10.70	106	668	0.215	ug/l	99
77) Bromobenzene	11.25	156	484	0.270	ug/l	85
78) n-propylbenzene	11.35	91	1810	0.216	ug/l	96
79) 2-Chlorotoluene	11.42	91	1161	0.221	ug/l	96
82) 4-Chlorotoluene	11.51	91	1349	0.224	ug/l	95
87) 1,3-Dichlorobenzene	12.02	146	791	0.238	ug/l	90
88) 1,4-Dichlorobenzene	12.09	146	895m	0.265	ug/l	
90) Hexachloroethane	12.59	117	257	0.238	ug/l #	13
91) 1,2-Dichlorobenzene	12.39	146	671	0.206	ug/l	76
93) 1,2,4-Trichlorobenzene	13.64	180	533	0.261	ug/l	85
94) Hexachlorobutadiene	13.78	225	211	0.224	ug/l	81
95) Naphthalene	13.83	128	1422	0.201	ug/l	99
96) 1,2,3-Trichlorobenzene	14.03	180	443	0.210	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.01 min

Lab File: VX013074.D

Acq: 15 Oct 2019 13:44

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:168 Resp: 163100

Ion Ratio Lower Upper

168 100

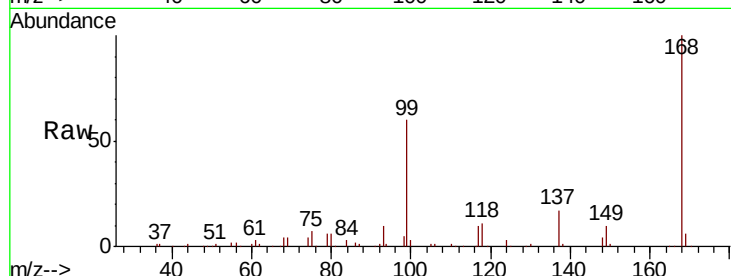
99 60.4 49.4 74.0

Manual Integrations

APPROVED

MMDadoda

10/16/2019 9:57:45 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

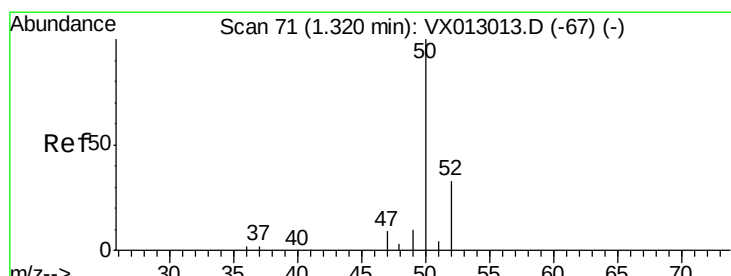
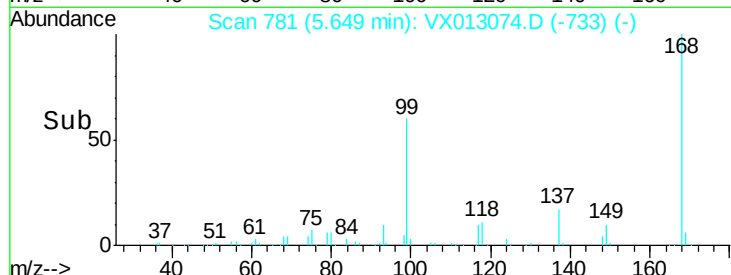
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.202 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX013074.D

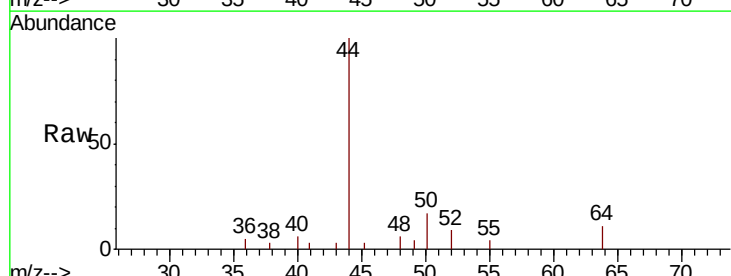
Acq: 15 Oct 2019 13:44

Tgt Ion: 50 Resp: 365

Ion Ratio Lower Upper

50 100

52 51.9 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

400

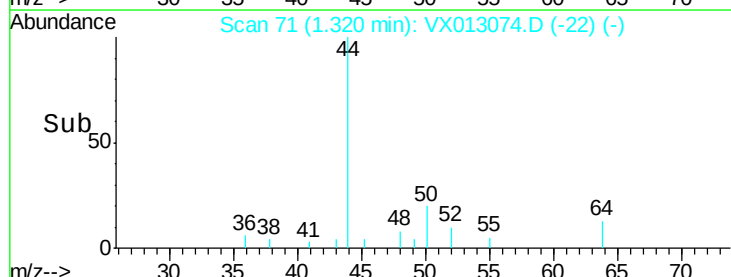
300

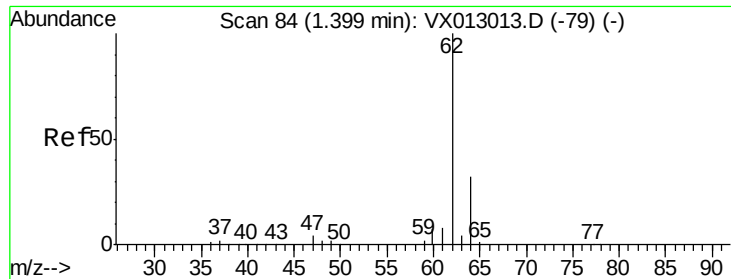
200

100

0

Time--> 1.28 1.30 1.32 1.34 1.36





#4

Vinyl Chloride

Concen: 0.215 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX013074.D

Acq: 15 Oct 2019 13:44

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 62 Resp: 402

Ion Ratio Lower Upper

62 100

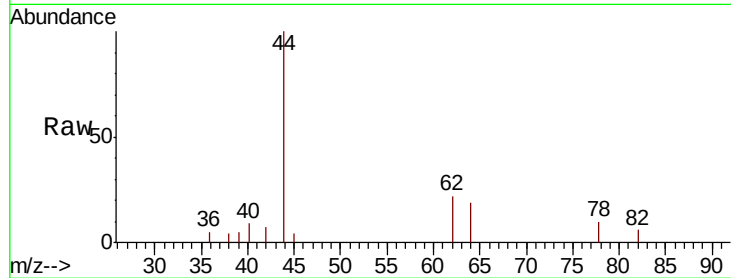
64 45.9 25.3 37.9#

Manual Integrations

APPROVED

MMDadoda

10/16/2019 9:57:45 AM



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

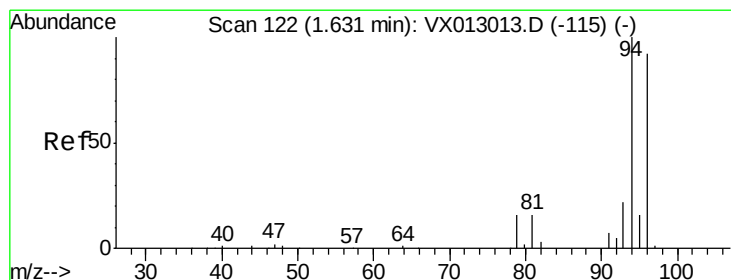
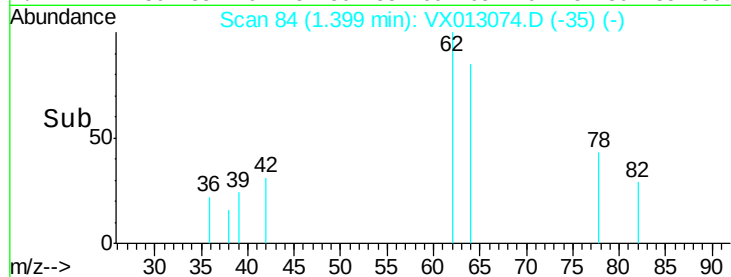
300

200

100

0

Time-->



#5

Bromomethane

Concen: 0.748 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX013074.D

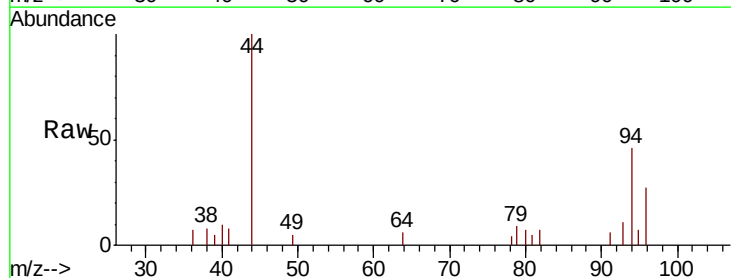
Acq: 15 Oct 2019 13:44

Tgt Ion: 94 Resp: 581

Ion Ratio Lower Upper

94 100

96 57.6 74.7 112.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

600

500

400

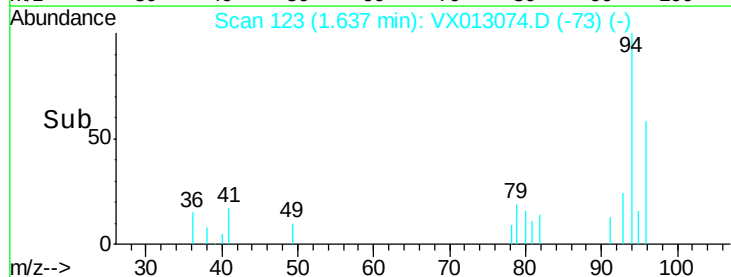
300

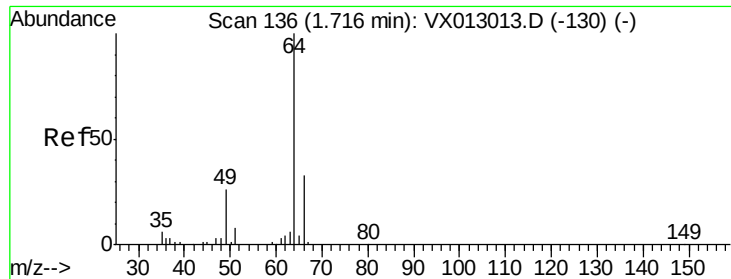
200

100

0

Time-->





#6

Chloroethane

Concen: 0.431 ug/l

RT: 1.70 min Scan# 133

Delta R.T. -0.01 min

Lab File: VX013074.D

Acq: 15 Oct 2019 13:44

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 64 Resp: 474

Ion Ratio Lower Upper

64 100

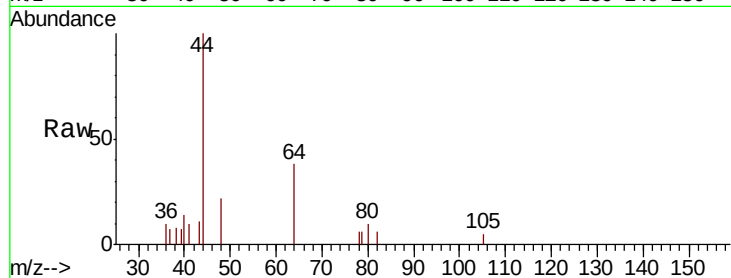
66 0.0 25.6 38.4#

Manual Integrations

APPROVED

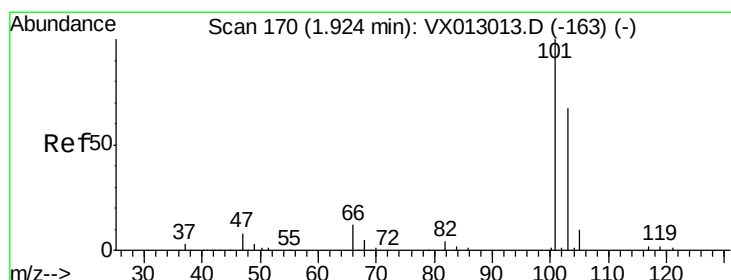
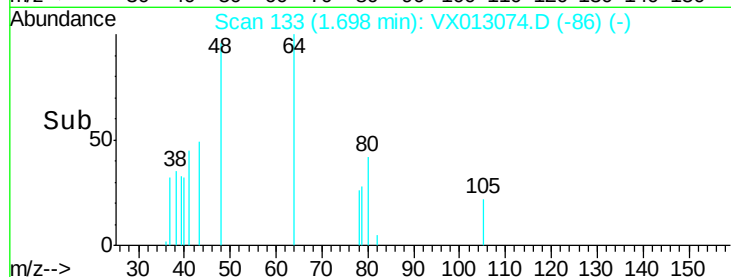
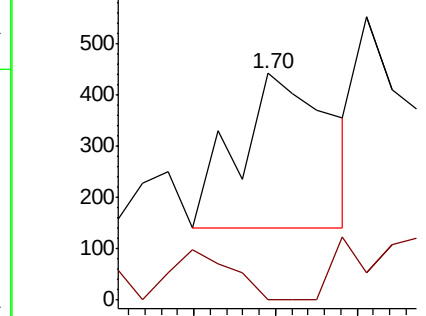
MMDadoda

10/16/2019 9:57:45 AM



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#7

Trichlorofluoromethane

Concen: 0.224 ug/l

RT: 1.92 min Scan# 170

Delta R.T. 0.01 min

Lab File: VX013074.D

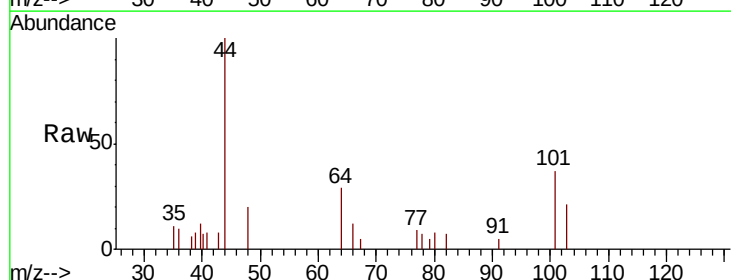
Acq: 15 Oct 2019 13:44

Tgt Ion: 101 Resp: 565

Ion Ratio Lower Upper

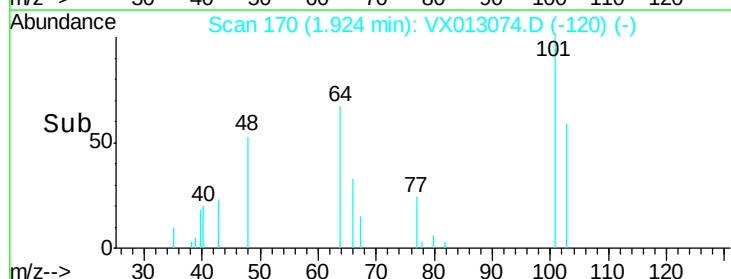
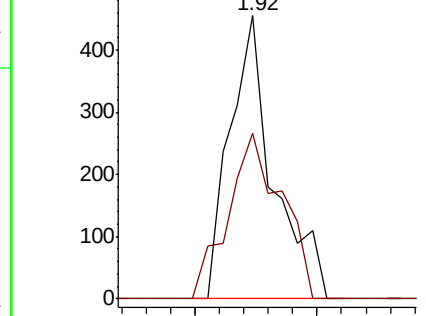
101 100

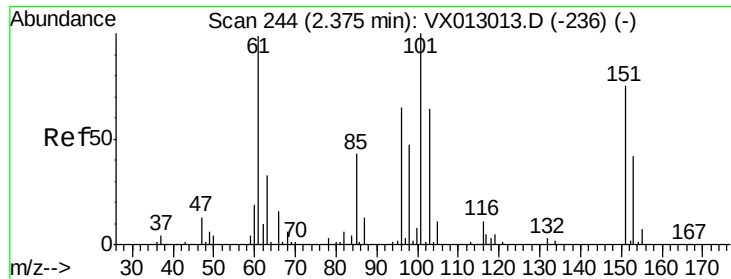
103 58.7 52.5 78.7



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.216 ug/l

RT: 2.38 min Scan# 245

Delta R.T. 0.01 min

Lab File: VX013074.D

Acq: 15 Oct 2019 13:44

Instrument :

MSVOA_X

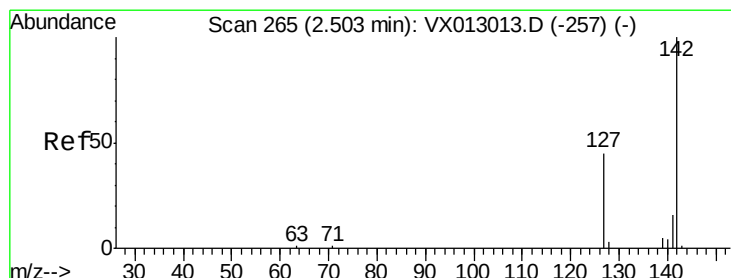
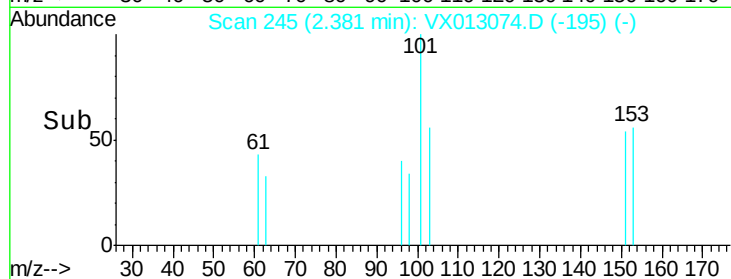
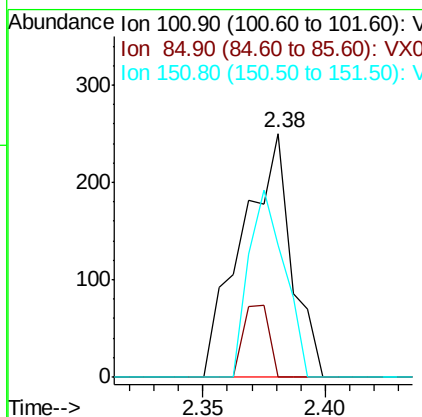
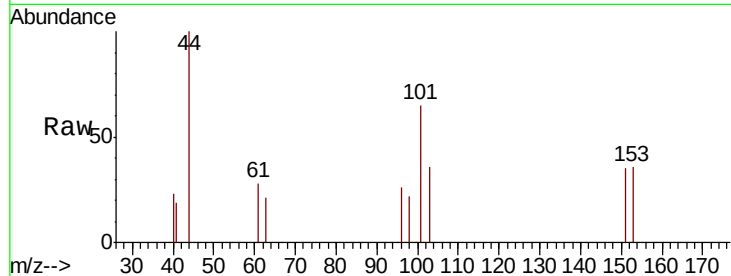
ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:	101	Resp:	352
Ion Ratio	Lower	Upper	
101	100		
85	15.1	35.2	52.8#
151	55.7	60.3	90.5#

Manual Integrations
APPROVED

MMDadoda
10/16/2019 9:57:45 AM



#10

Methyl Iodide

Concen: 0.371 ug/l

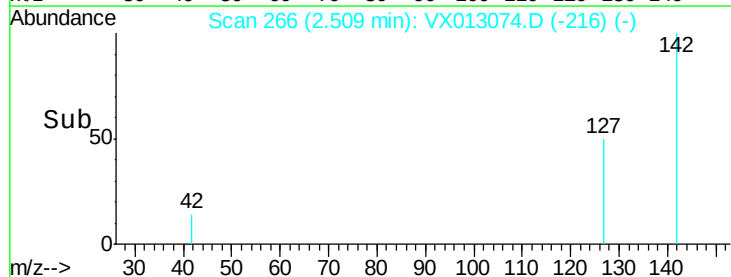
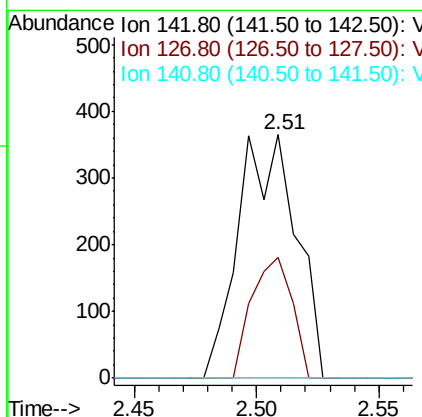
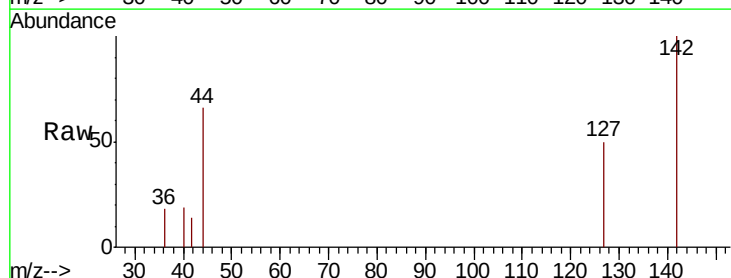
RT: 2.51 min Scan# 266

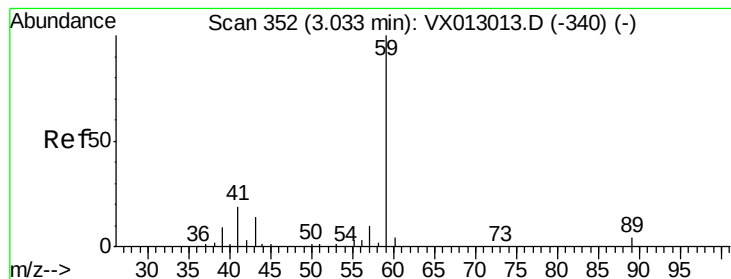
Delta R.T. 0.01 min

Lab File: VX013074.D

Acq: 15 Oct 2019 13:44

Tgt Ion:	142	Resp:	596
Ion Ratio	Lower	Upper	
142	100		
127	34.7	34.9	52.3#
141	0.0	11.6	17.4#





#11

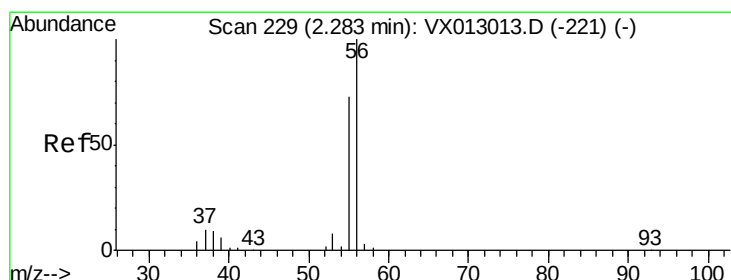
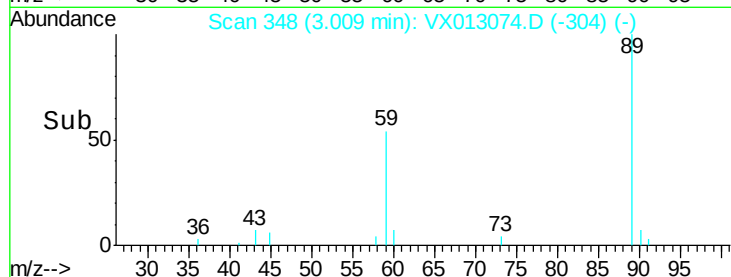
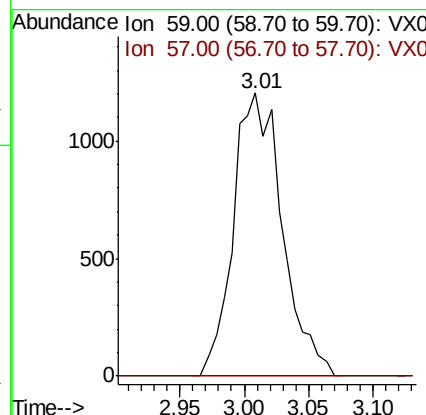
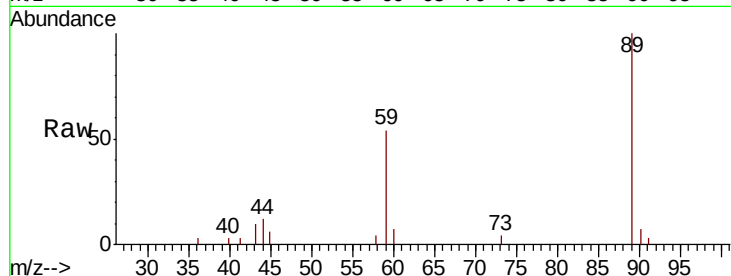
Tert butyl alcohol
Concen: 5.866 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.03 min
Lab File: VX013074.D
Acq: 15 Oct 2019 13:44

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.3	12.5#

Manual Integrations
APPROVED

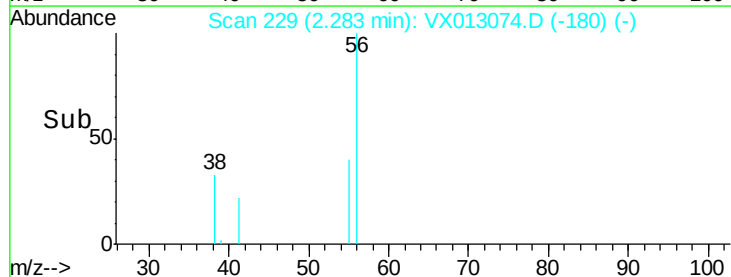
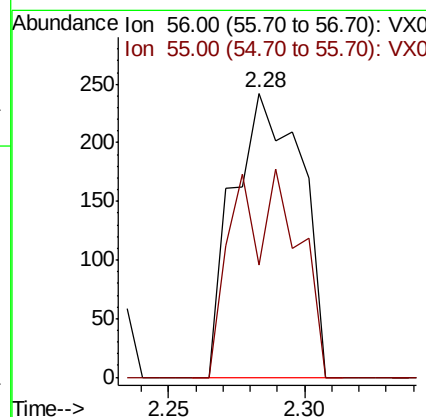
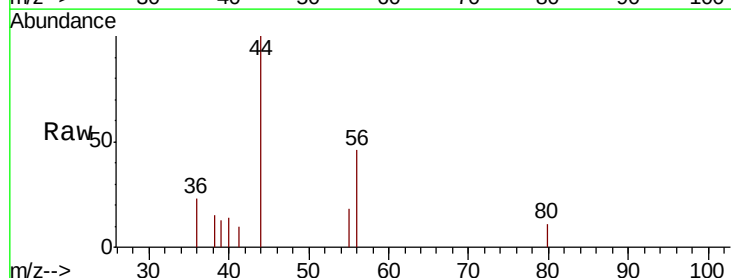
MMDadoda
10/16/2019 9:57:45 AM

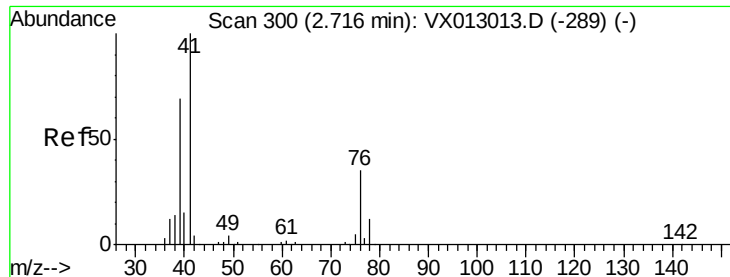


#13

Acrolein
Concen: 1.091 ug/l
RT: 2.28 min Scan# 229
Delta R.T. 0.00 min
Lab File: VX013074.D
Acq: 15 Oct 2019 13:44

Tgt Ion	Ratio	Lower	Upper
56	100		
55	33.2	56.6	85.0#





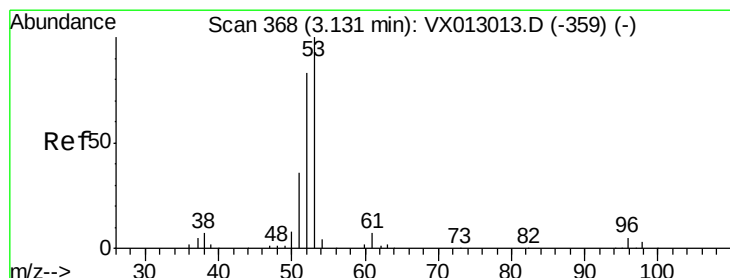
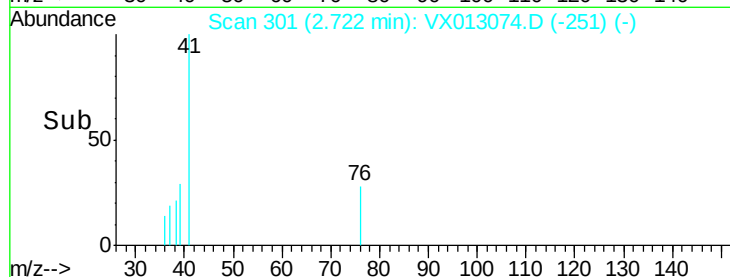
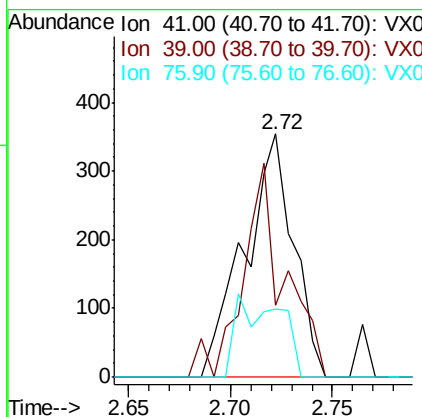
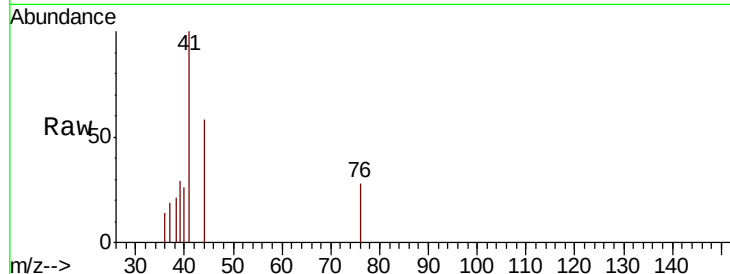
#14
Allvl chloride
Concen: 0.202 ug/l
RT: 2.72 min Scan# 301
Delta R.T. 0.01 min
Lab File: VX013074.D
Acq: 15 Oct 2019 13:44

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:	41	Resp:	592
Ion	Ratio	Lower	Upper
41	100		
39	74.2	51.0	76.6
76	30.1	26.2	39.4

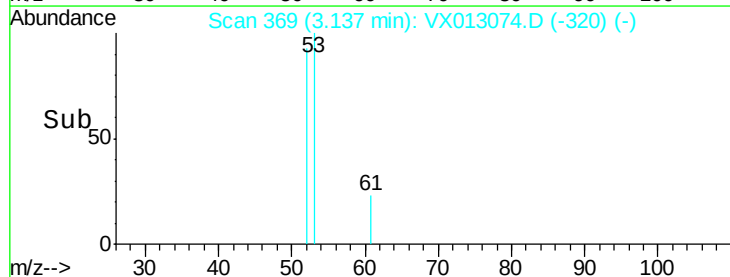
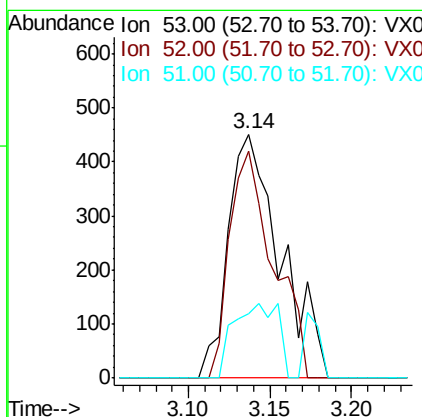
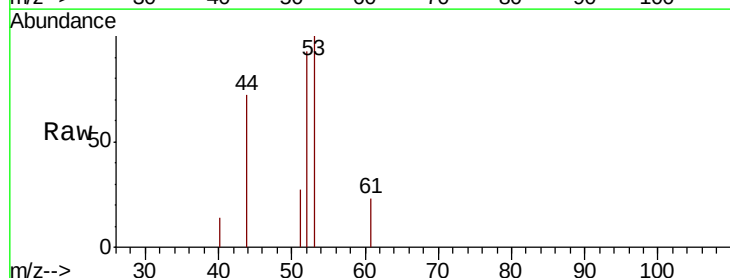
Manual Integrations
APPROVED

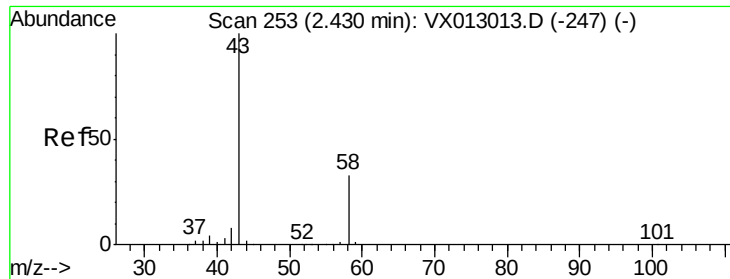
MMDadoda
10/16/2019 9:57:45 AM



#15
Acrylonitrile
Concen: 0.980 ug/l
RT: 3.14 min Scan# 369
Delta R.T. 0.00 min
Lab File: VX013074.D
Acq: 15 Oct 2019 13:44

Tgt Ion:	53	Resp:	1004
Ion	Ratio	Lower	Upper
53	100		
52	78.4	66.2	99.2
51	26.1	28.2	42.4#





#16

Acetone

Concen: 1.160 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX013074.D

Acq: 15 Oct 2019 13:44

Tot Ion: 43 Resp: 1246

Ion Ratio Lower Upper

43 100

58 31.0 25.4 38.2

Instrument :

MSVOA_X

ClientSampleId :

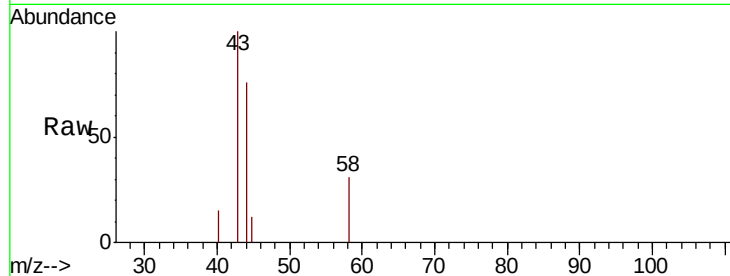
MDL-MDL-WATER-03-QT4-2019DL

Manual Integrations

APPROVED

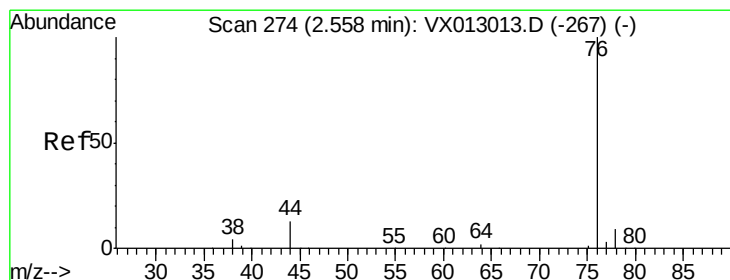
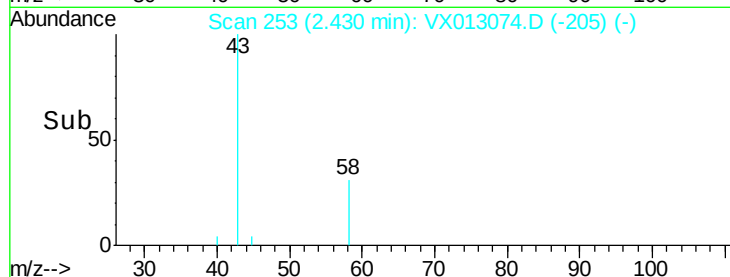
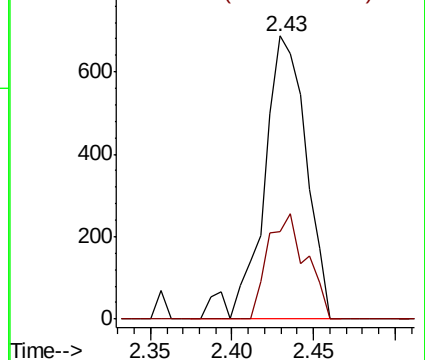
MMDadoda

10/16/2019 9:57:45 AM



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.270 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.00 min

Lab File: VX013074.D

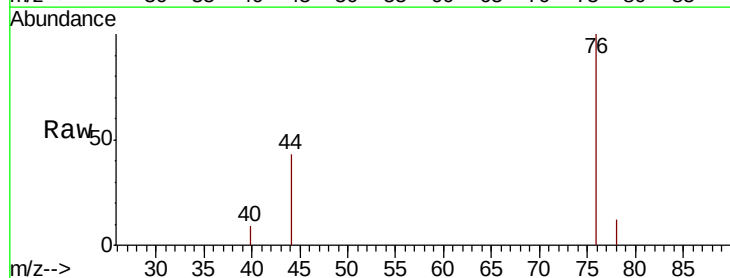
Acq: 15 Oct 2019 13:44

Tgt Ion: 76 Resp: 1271

Ion Ratio Lower Upper

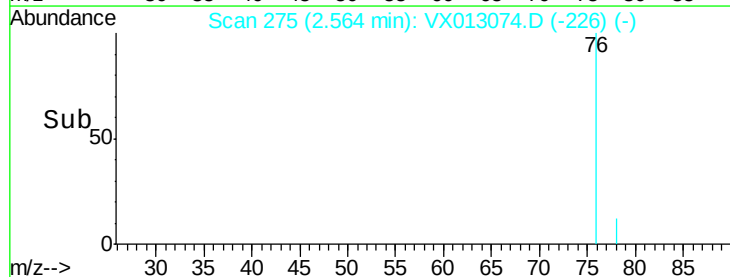
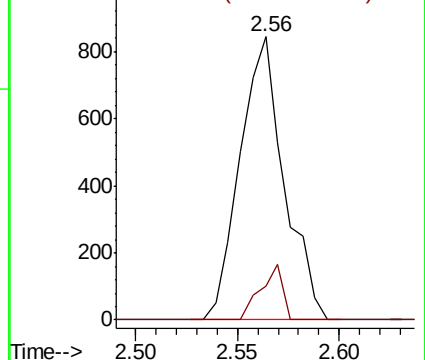
76 100

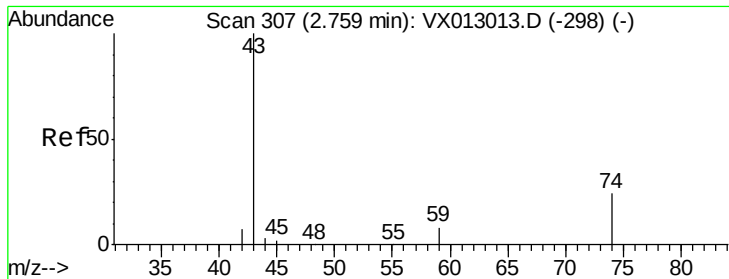
78 12.1 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





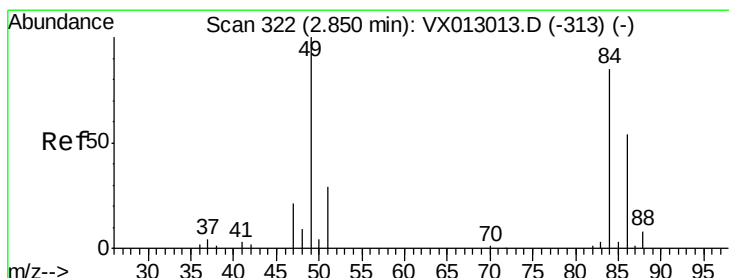
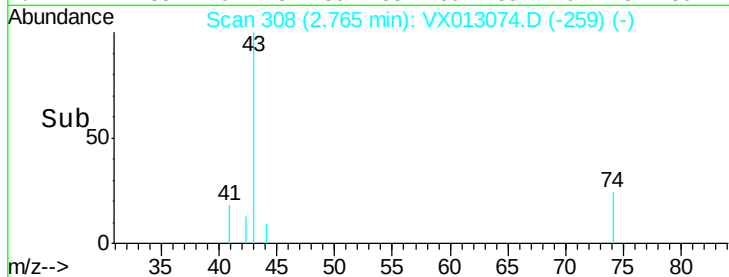
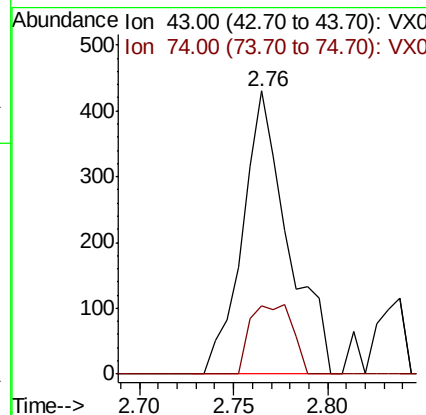
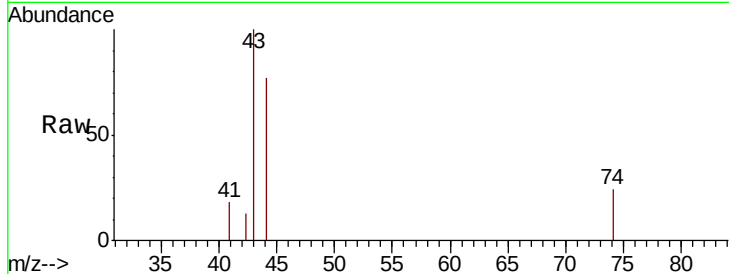
#18
Methyl Acetate
Concen: 0.283 ug/l
RT: 2.76 min Scan# 308
Delta R.T. 0.00 min
Lab File: VX013074.D
Acq: 15 Oct 2019 13:44

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 43 Resp: 720
Ion Ratio Lower Upper
43 100
74 22.8 19.2 28.8

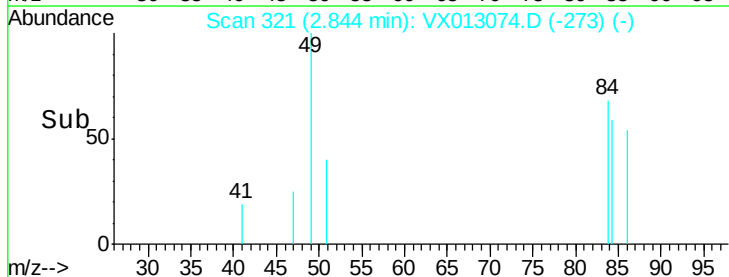
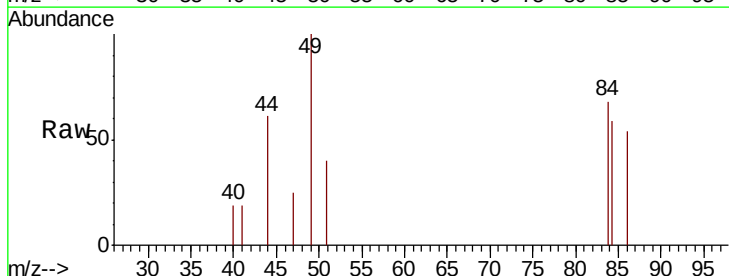
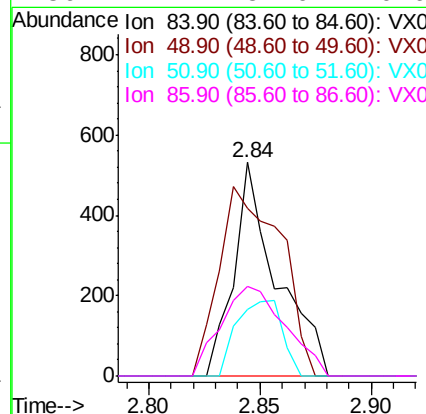
Manual Integrations
APPROVED

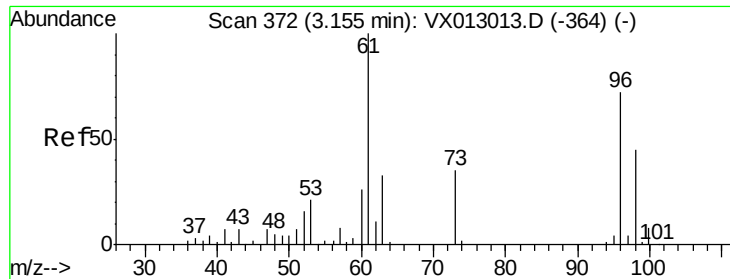
MMDadoda
10/16/2019 9:57:45 AM



#20
Methylene Chloride
Concen: 0.361 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.01 min
Lab File: VX013074.D
Acq: 15 Oct 2019 13:44

Tgt Ion: 84 Resp: 713
Ion Ratio Lower Upper
84 100
49 78.4 96.6 144.8#
51 31.4 30.7 46.1
86 42.1 51.0 76.6#





#21

trans-1,2-Dichloroethene

Concen: 0.256 ug/l

RT: 3.16 min Scan# 372

Delta R.T. 0.00 min

Lab File: VX013074.D

Acq: 15 Oct 2019 13:44

Instrument :

MSVOA_X

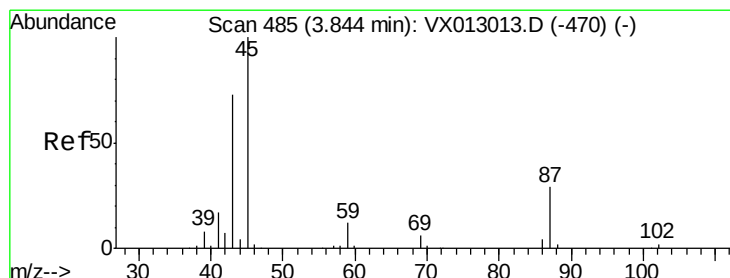
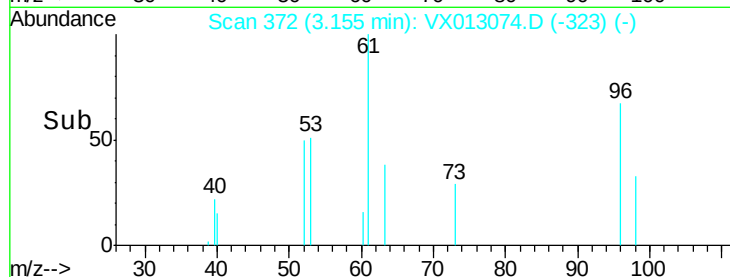
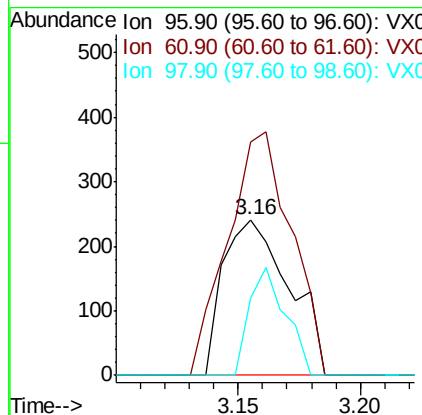
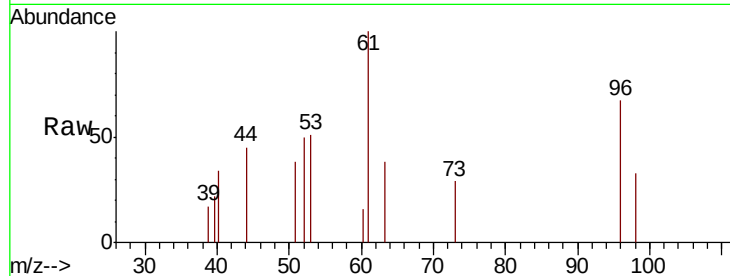
ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:	96	Resp:	452
Ion	Ratio	Lower	Upper
96	100		
61	150.2	110.4	165.6
98	49.4	51.5	77.3#

Manual Integrations
APPROVED

MMDadoda
10/16/2019 9:57:45 AM



#22

Diisopropyl ether

Concen: 0.202 ug/l

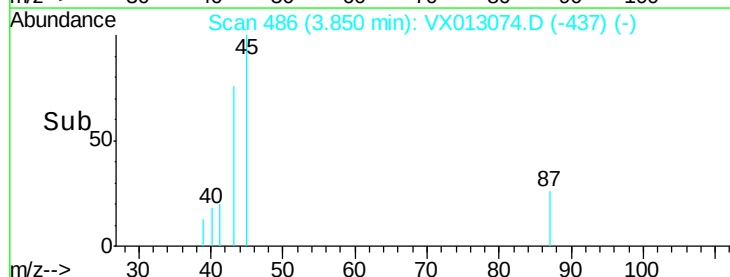
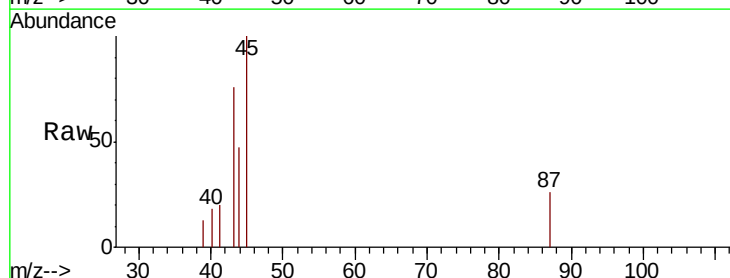
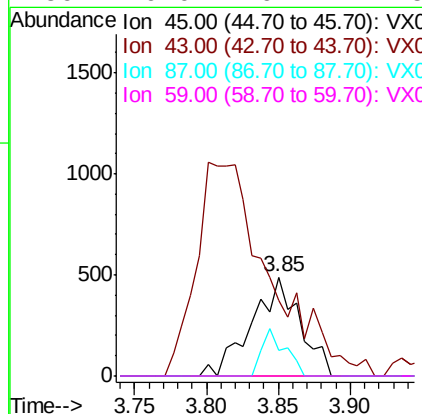
RT: 3.85 min Scan# 486

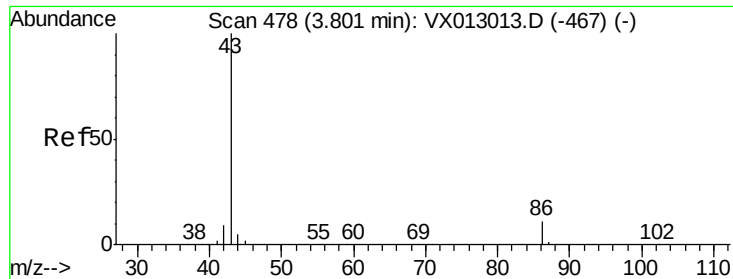
Delta R.T. 0.00 min

Lab File: VX013074.D

Acq: 15 Oct 2019 13:44

Tgt Ion:	45	Resp:	1134
Ion	Ratio	Lower	Upper
45	100		
43	54.7	51.4	77.0
87	25.7	22.5	33.7
59	0.0	9.7	14.5#





#23

Vinyl Acetate

Concen: 0.774 ug/l

RT: 3.80 min Scan# 478

Delta R.T. -0.01 min

Lab File: VX013074.D

Acq: 15 Oct 2019 13:44

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 43 Resp: 3759

Ion Ratio Lower Upper

43 100

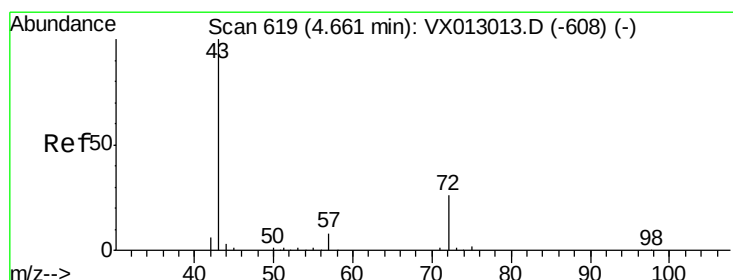
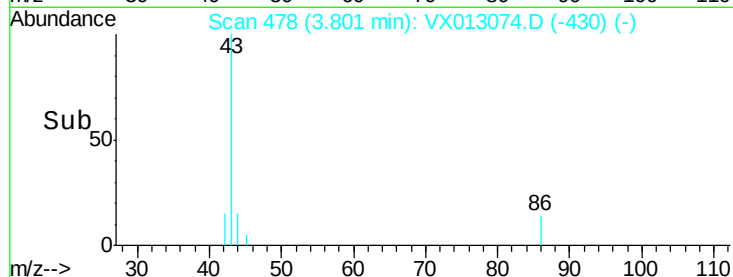
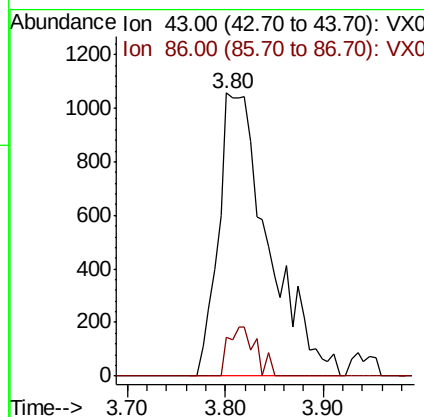
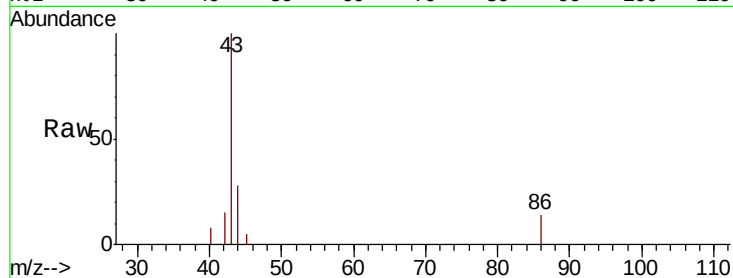
86 13.6 9.0 13.6#

Manual Integrations

APPROVED

MMDadoda

10/16/2019 9:57:45 AM



#25

2-Butanone

Concen: 0.973 ug/l m

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX013074.D

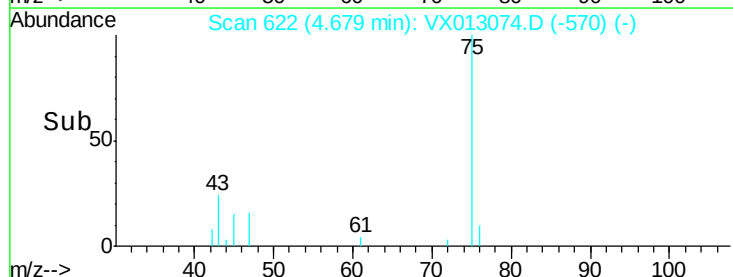
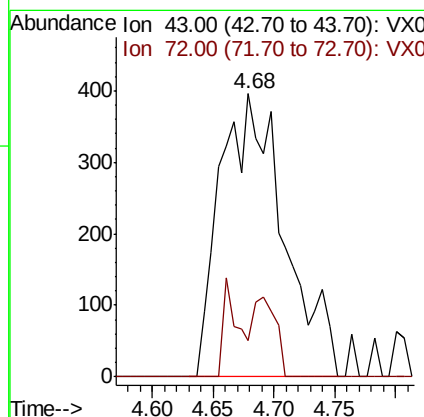
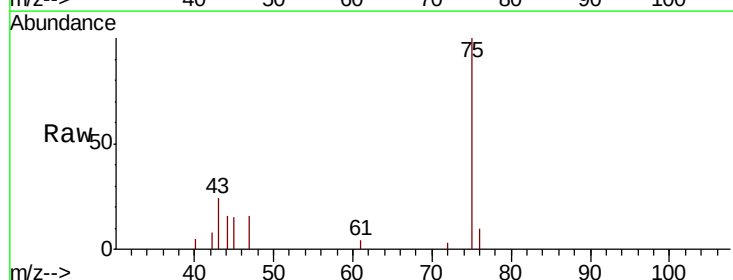
Acq: 15 Oct 2019 13:44

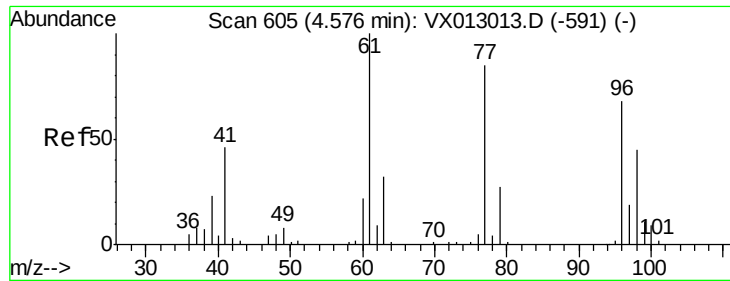
Tgt Ion: 43 Resp: 1450

Ion Ratio Lower Upper

43 100

72 12.9 21.0 31.6#





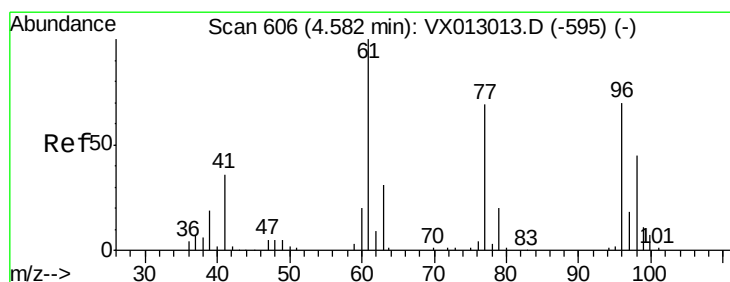
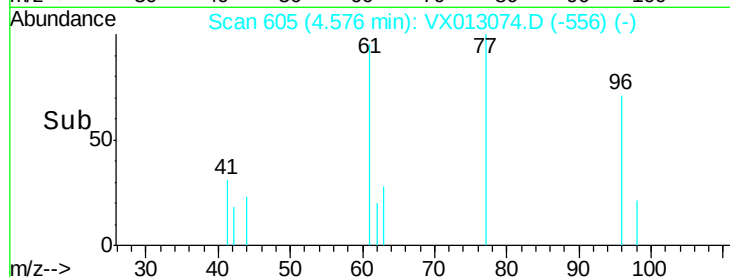
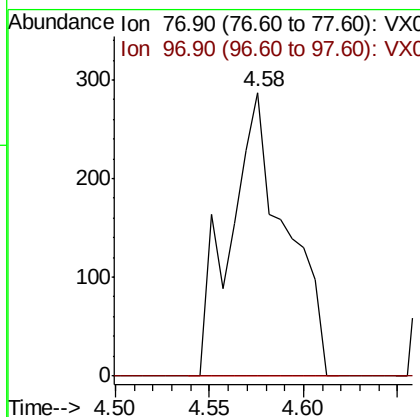
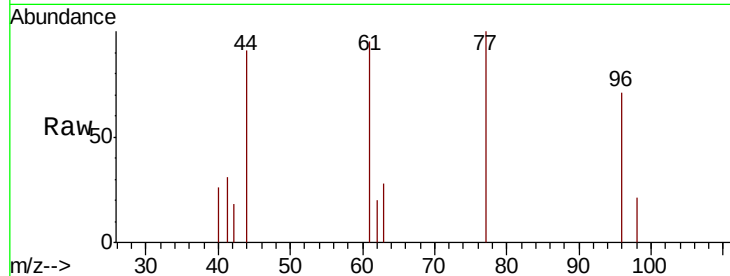
#26
 2,2-Dichloropropane
 Concen: 0.221 ug/l
 RT: 4.58 min Scan# 605
 Delta R.T. 0.00 min
 Lab File: VX013074.D
 Acq: 15 Oct 2019 13:44

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 77 Resp: 589
 Ion Ratio Lower Upper
 77 100
 97 0.0 11.3 33.9#

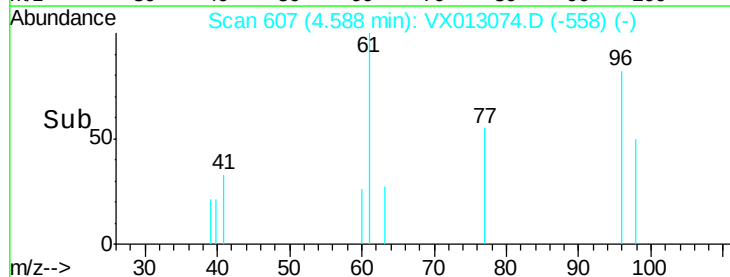
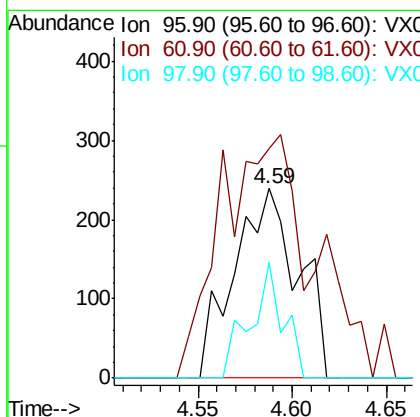
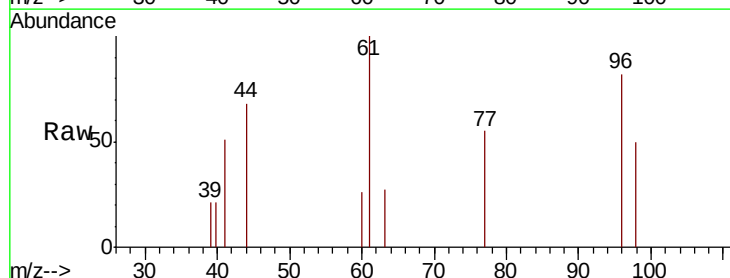
Manual Integrations
 APPROVED

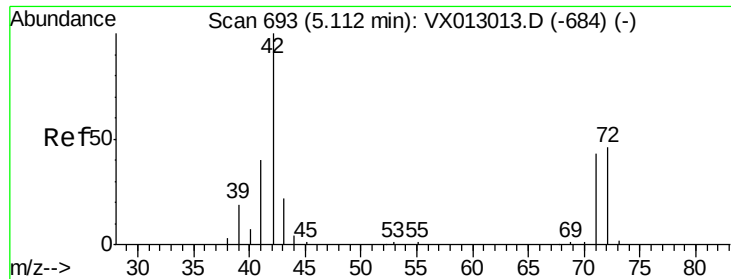
MMDadoda
 10/16/2019 9:57:45 AM



#27
 cis-1,2-Dichloroethene
 Concen: 0.277 ug/l
 RT: 4.59 min Scan# 607
 Delta R.T. 0.00 min
 Lab File: VX013074.D
 Acq: 15 Oct 2019 13:44

Tgt Ion: 96 Resp: 565
 Ion Ratio Lower Upper
 96 100
 61 154.5 0.0 290.6
 98 31.3 0.0 128.8





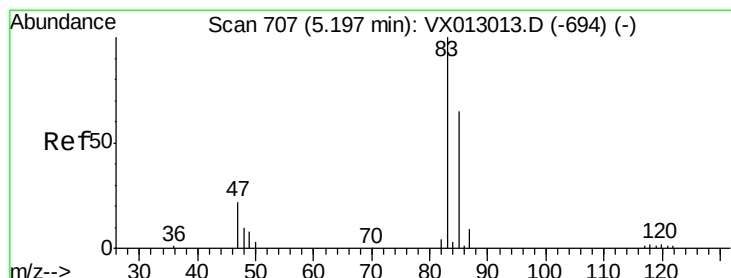
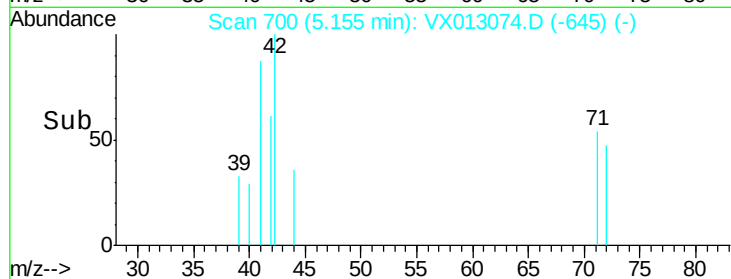
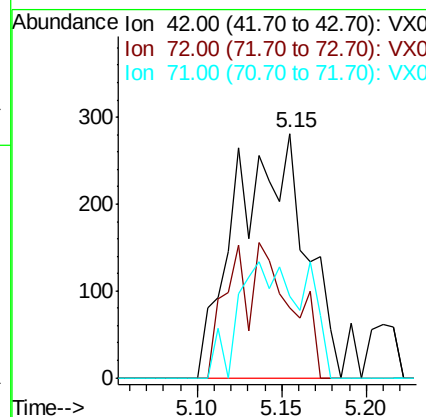
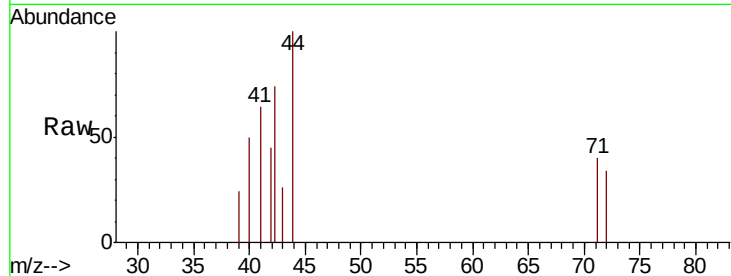
#29
Tetrahydrofuran
Concen: 0.871 ug/l m
RT: 5.15 min Scan# 700
Delta R.T. 0.04 min
Lab File: VX013074.D
Acq: 15 Oct 2019 13:44

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
42	100		
72	18.1	36.9	55.3#
71	0.0	33.5	50.3#

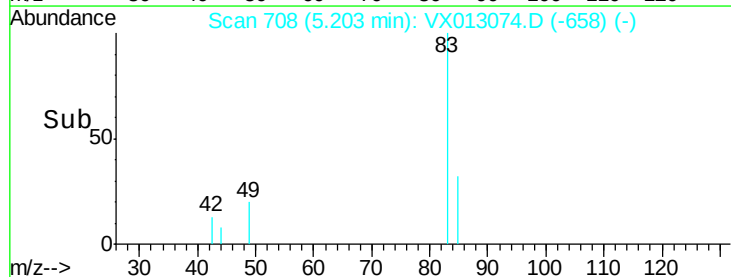
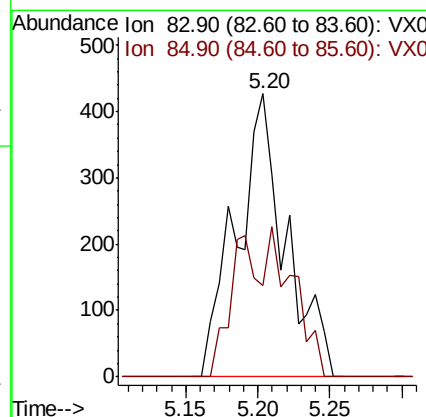
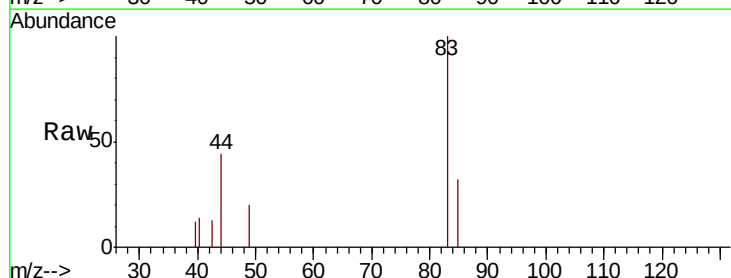
Manual Integrations
APPROVED

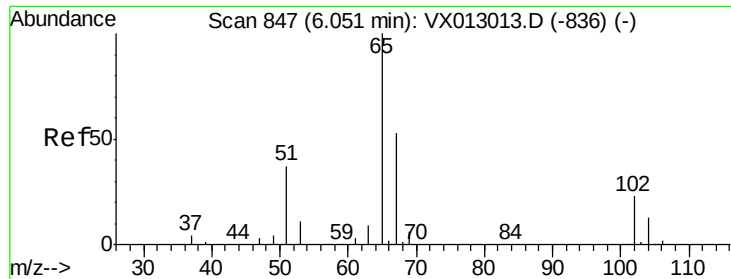
MMDadoda
10/16/2019 9:57:45 AM



#30
Chloroform
Concen: 0.309 ug/l
RT: 5.20 min Scan# 708
Delta R.T. 0.01 min
Lab File: VX013074.D
Acq: 15 Oct 2019 13:44

Tgt Ion	Ratio	Lower	Upper
83	100		
85	32.3	51.5	77.3#





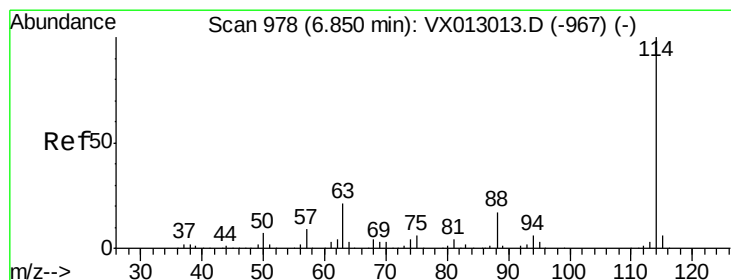
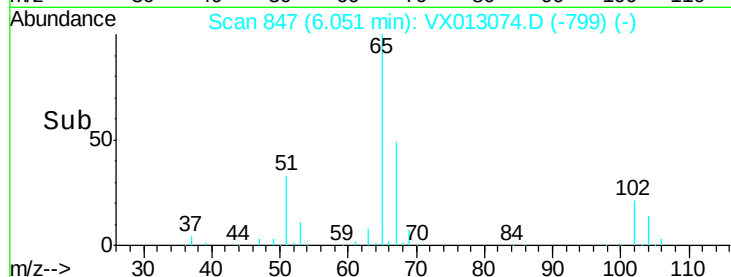
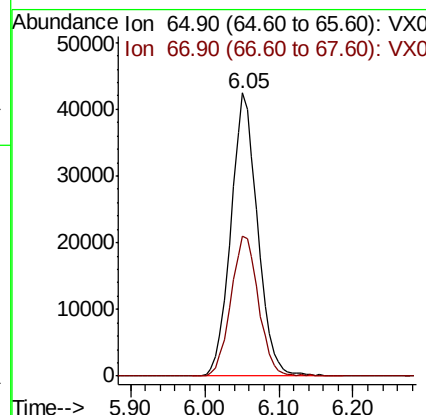
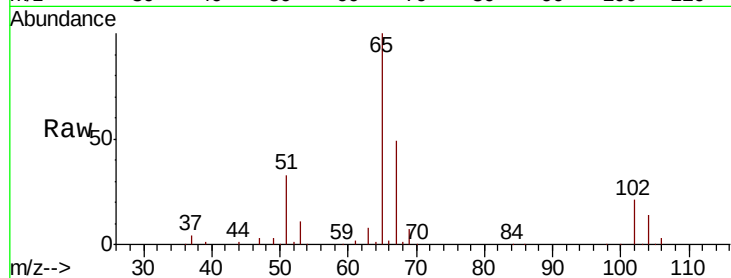
#33
 1,2-Dichloroethane-d4
 Concen: 52.257 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.01 min
 Lab File: VX013074.D
 Acq: 15 Oct 2019 13:44

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	51.2	0.0	104.4	

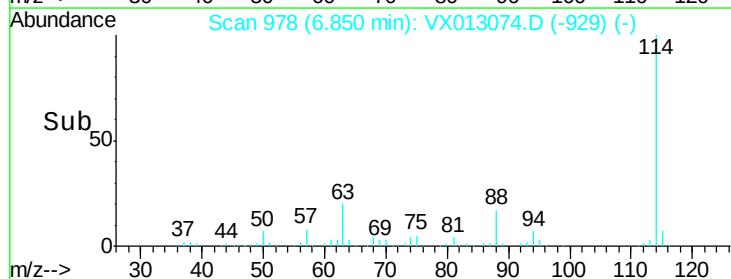
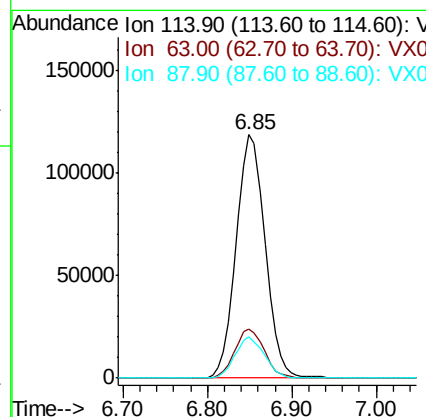
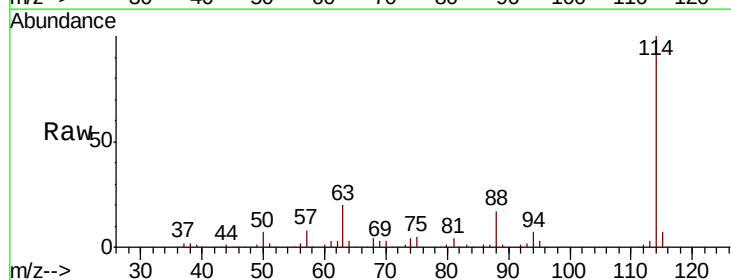
Manual Integrations
 APPROVED

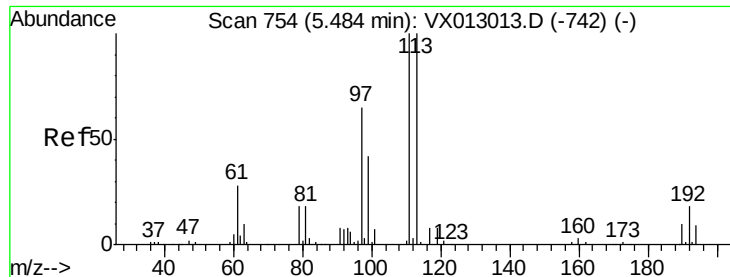
MMDadoda
 10/16/2019 9:57:45 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX013074.D
 Acq: 15 Oct 2019 13:44

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	20.0	0.0	40.8	
88	17.2	0.0	33.8	





#35

Dibromofluoromethane

Concen: 50.998 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013074.D

Acq: 15 Oct 2019 13:44

Instrument :

MSVOA_X

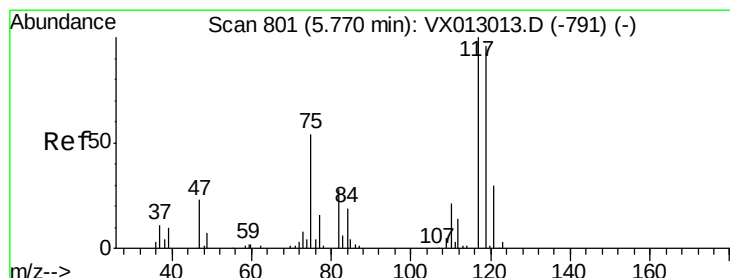
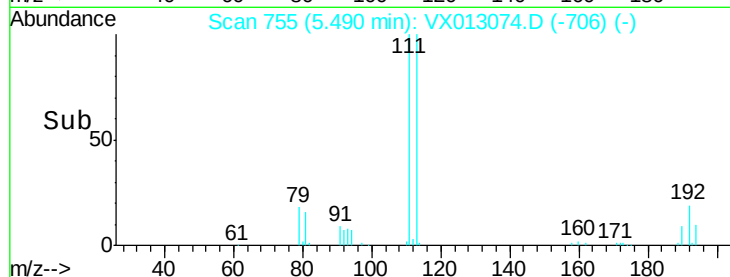
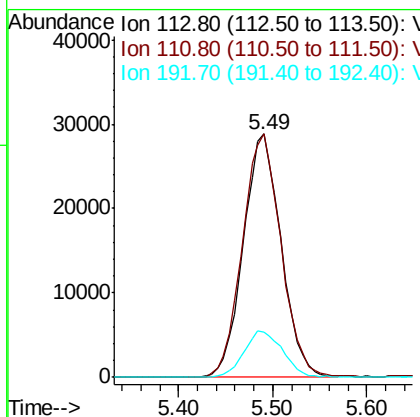
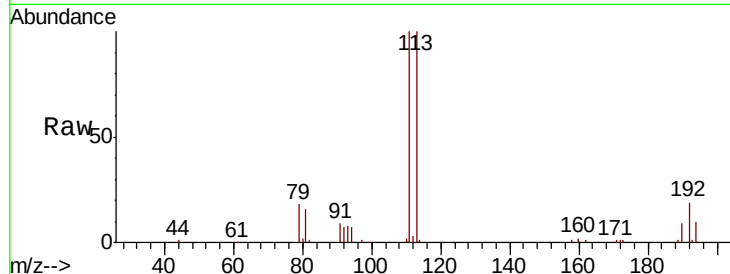
ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:	113	Resp:	81031
Ion Ratio	Lower	Upper	
113	100		
111	102.4	83.2	124.8
192	19.5	15.4	23.2

Manual Integrations
APPROVED

MMDadoda
10/16/2019 9:57:45 AM



#38

Carbon Tetrachloride

Concen: 7.246 ug/l

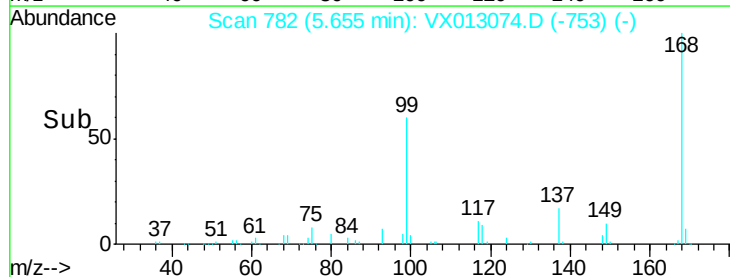
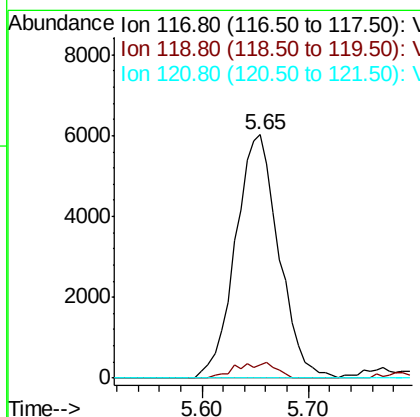
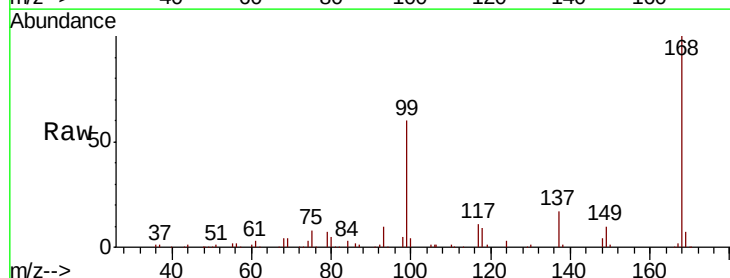
RT: 5.65 min Scan# 782

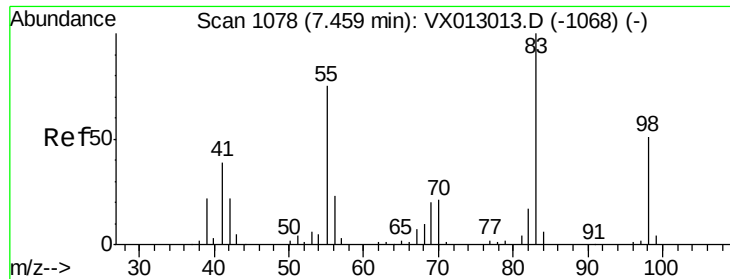
Delta R.T. -0.12 min

Lab File: VX013074.D

Acq: 15 Oct 2019 13:44

Tgt Ion:	117	Resp:	17167
Ion Ratio	Lower	Upper	
117	100		
119	5.7	74.5	111.7#
121	0.0	24.2	36.4#





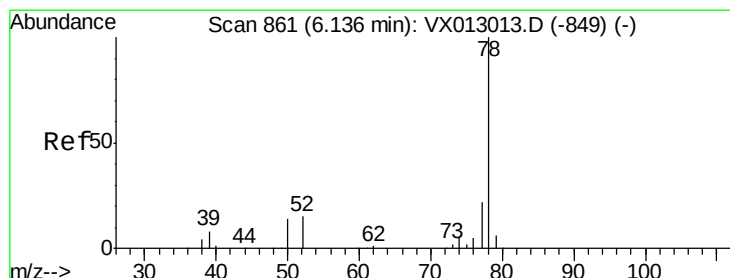
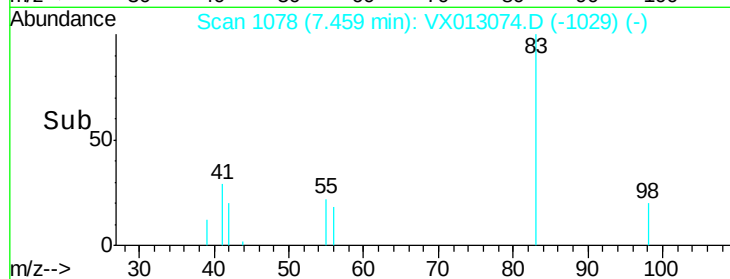
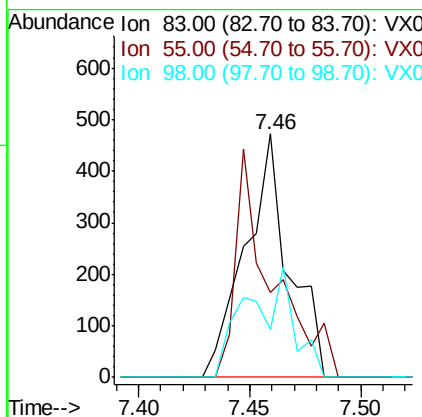
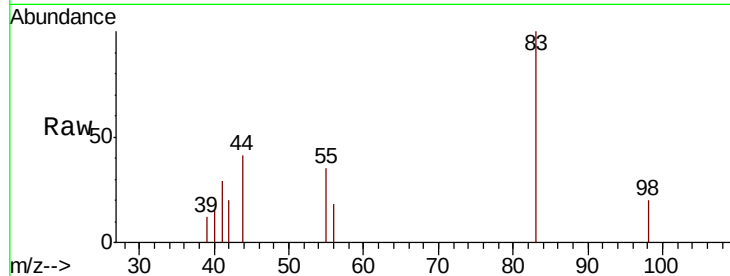
#39
Methylvlclohexane
Concen: 0.219 ug/l
RT: 7.46 min Scan# 1078
Delta R.T. 0.00 min
Lab File: VX013074.D
Acq: 15 Oct 2019 13:44

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
83	100		
55	34.7	60.2	90.4#
98	19.7	38.5	57.7#

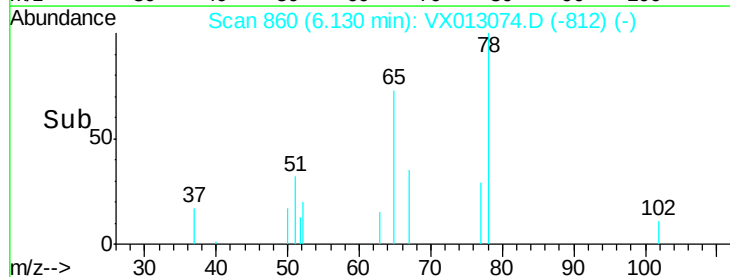
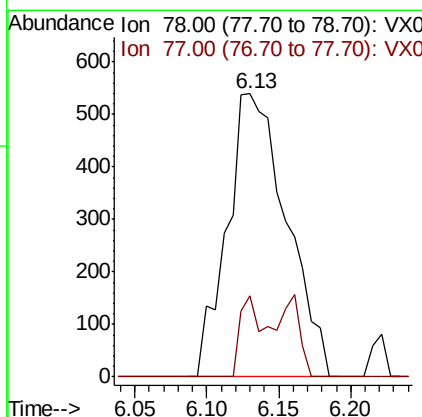
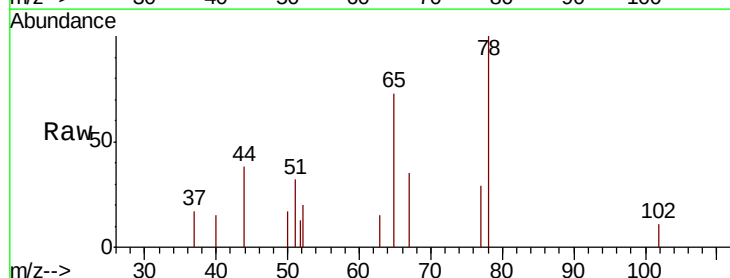
Manual Integrations
APPROVED

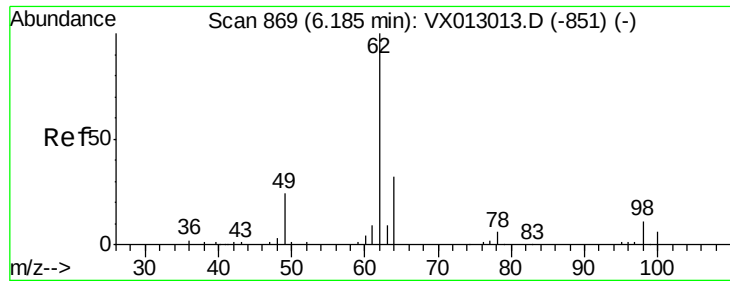
MMDadoda
10/16/2019 9:57:45 AM



#40
Benzene
Concen: 0.216 ug/l
RT: 6.13 min Scan# 860
Delta R.T. -0.01 min
Lab File: VX013074.D
Acq: 15 Oct 2019 13:44

Tgt Ion	Ratio	Lower	Upper
78	100		
77	28.6	19.0	28.4#





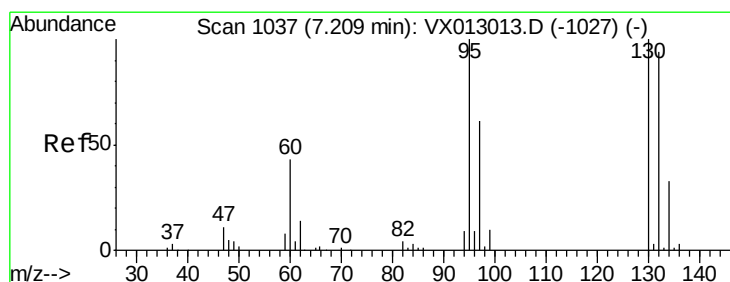
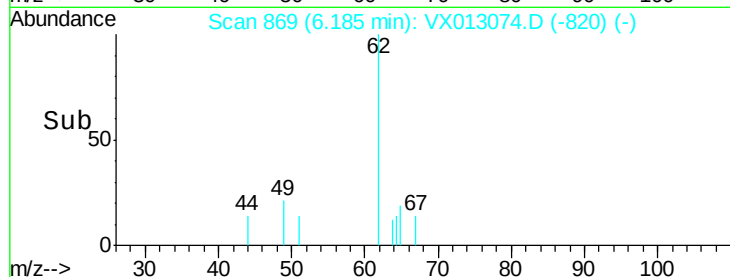
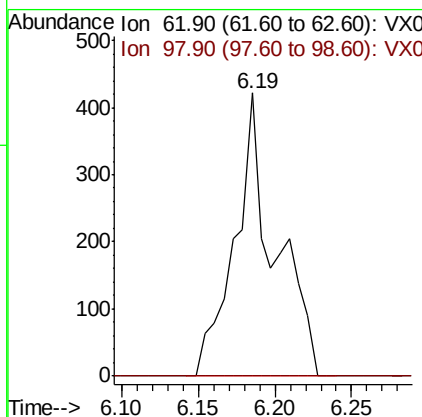
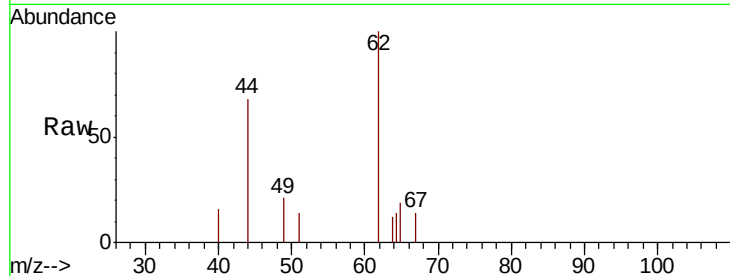
#42
1,2-Dichloroethane
Concen: 0.295 ug/l m
RT: 6.19 min Scan# 869
Delta R.T. 0.00 min
Lab File: VX013074.D
Acq: 15 Oct 2019 13:44

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	20.4

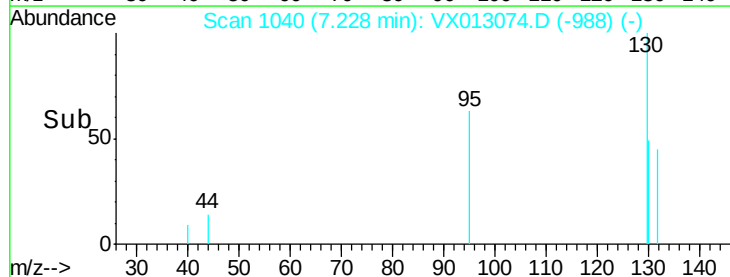
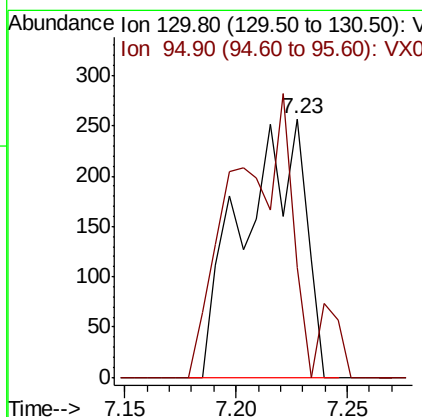
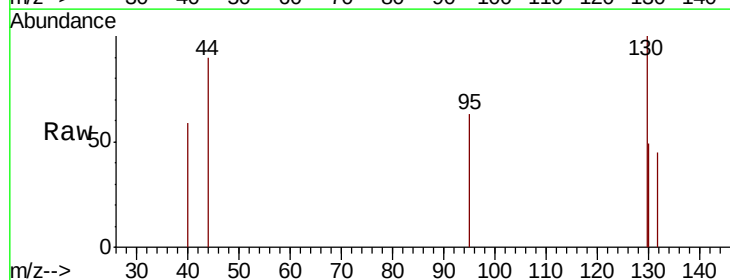
Manual Integrations
APPROVED

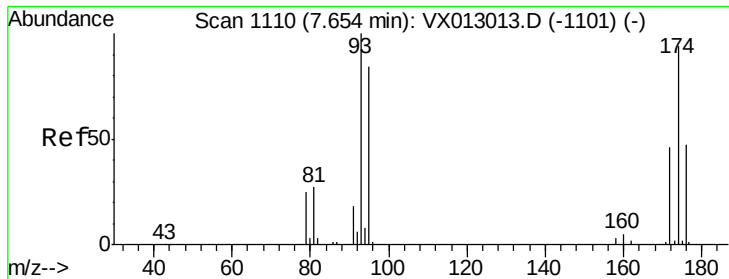
MMDadoda
10/16/2019 9:57:45 AM



#44
Trichloroethene
Concen: 0.250 ug/l
RT: 7.23 min Scan# 1040
Delta R.T. 0.02 min
Lab File: VX013074.D
Acq: 15 Oct 2019 13:44

Tgt Ion	Ratio	Lower	Upper
130	100		
95	42.4	0.0	189.2





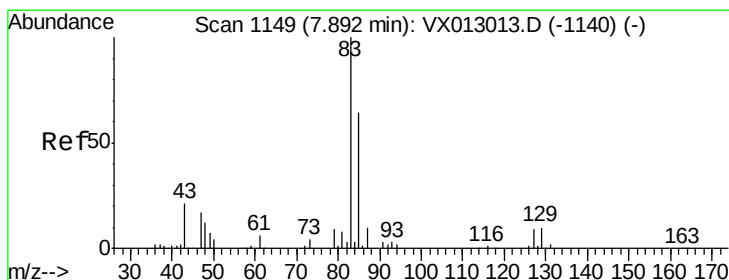
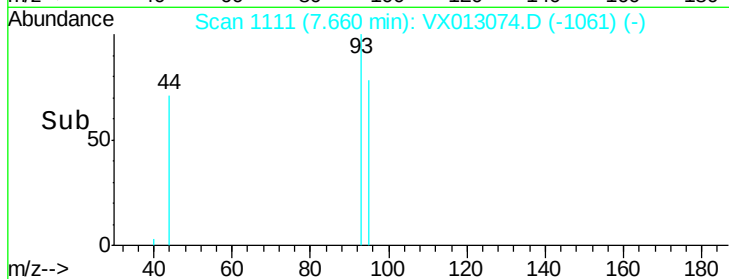
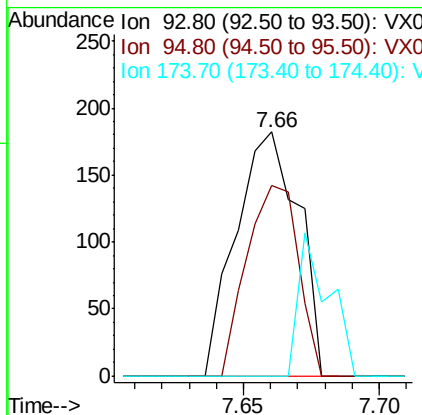
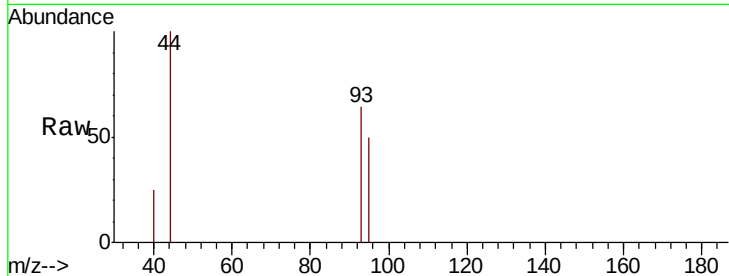
#46
Dibromomethane
Concen: 0.238 ug/l
RT: 7.66 min Scan# 1111
Delta R.T. 0.01 min
Lab File: VX013074.D
Acq: 15 Oct 2019 13:44

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
93	100		
95	64.5	66.3	99.5#
174	28.6	77.8	116.6#

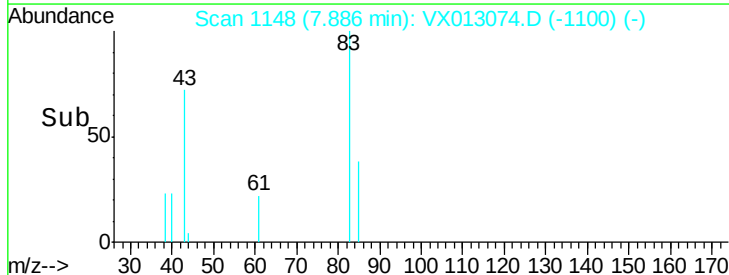
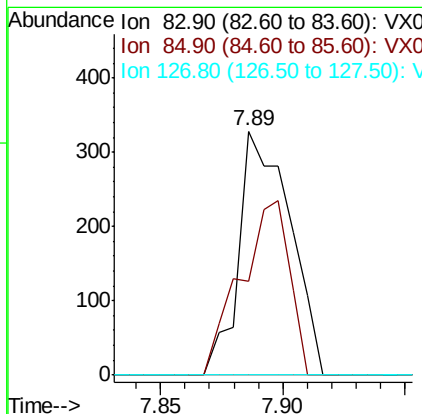
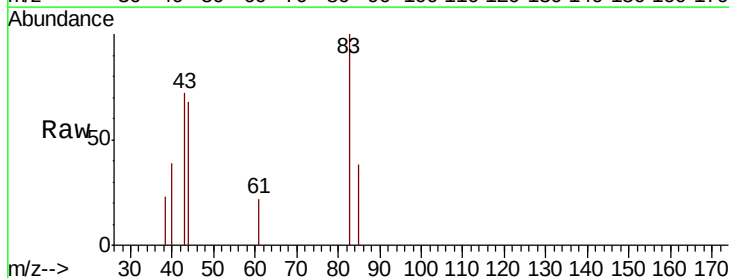
Manual Integrations
APPROVED

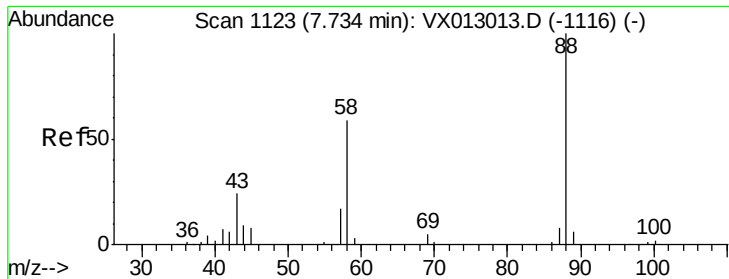
MMDadoda
10/16/2019 9:57:45 AM



#47
Bromodichloromethane
Concen: 0.201 ug/l
RT: 7.89 min Scan# 1148
Delta R.T. -0.01 min
Lab File: VX013074.D
Acq: 15 Oct 2019 13:44

Tgt Ion	Ratio	Lower	Upper
83	100		
85	38.4	52.4	78.6#
127	0.0	6.6	10.0#





#49

1,4-Dioxane

Concen: 2.118 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VX013074.D

Acq: 15 Oct 2019 13:44

Instrument :

MSVOA_X

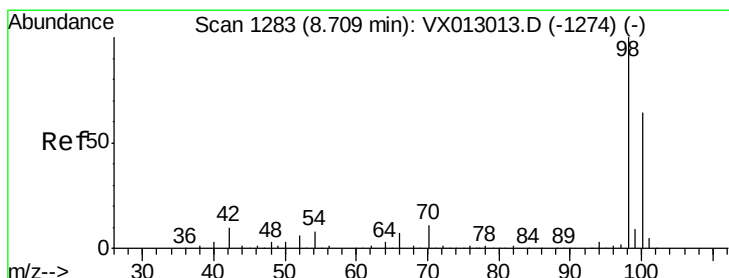
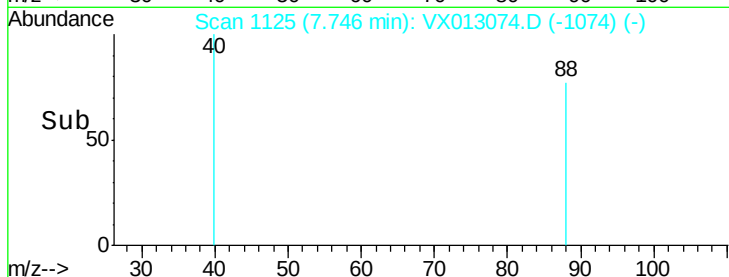
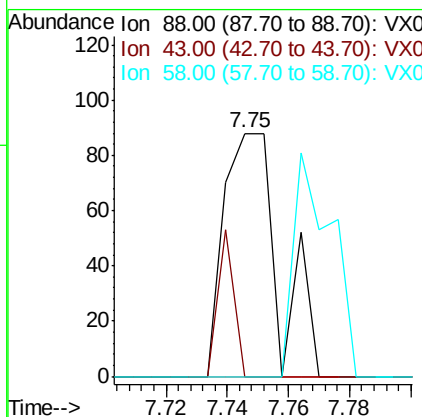
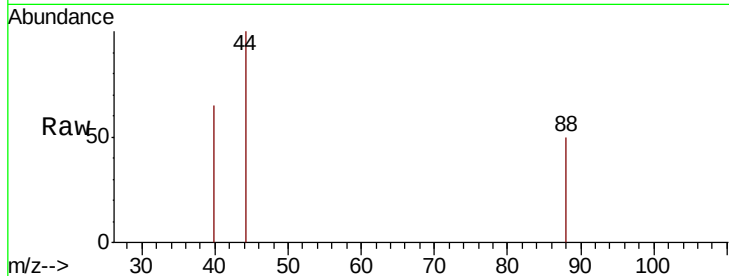
ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:	88	Resp:	109
Ion	Ratio	Lower	Upper
88	100		
43	17.4	25.0	37.6#
58	0.0	55.4	83.2#

Manual Integrations
APPROVED

MMDadoda
10/16/2019 9:57:45 AM



#50

Toluene-d8

Concen: 49.384 ug/l

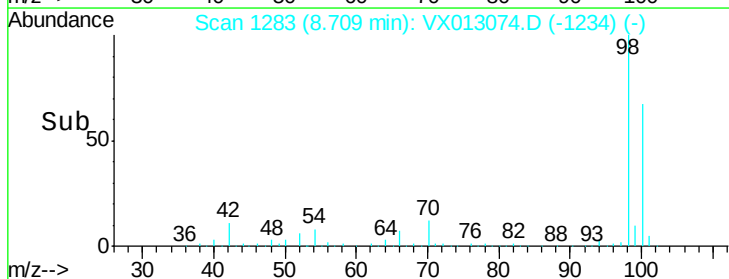
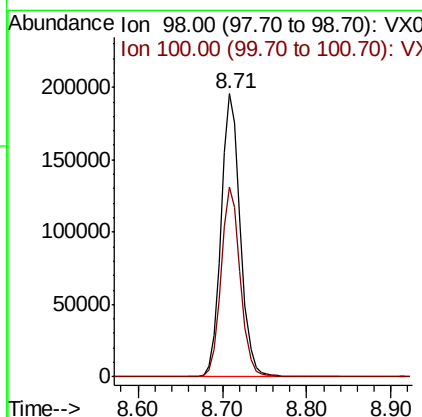
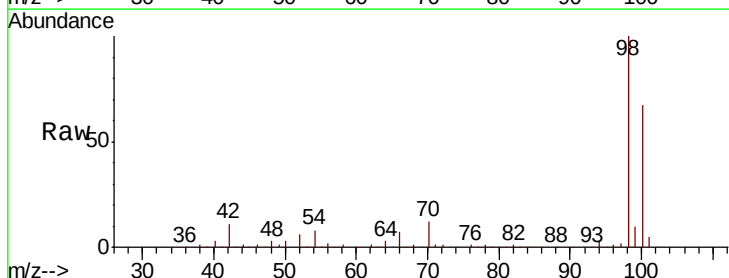
RT: 8.71 min Scan# 1283

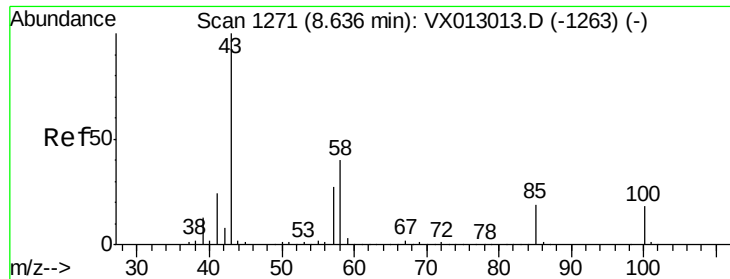
Delta R.T. 0.00 min

Lab File: VX013074.D

Acq: 15 Oct 2019 13:44

Tgt Ion:	98	Resp:	306040
Ion	Ratio	Lower	Upper
98	100		
100	67.0	53.4	80.2





#51

4-Methyl-2-Pentanone

Concen: 0.835 ug/l

RT: 8.64 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VX013074.D

Acq: 15 Oct 2019 13:44

Tot Ion: 43 Resp: 2275

Ion Ratio Lower Upper

43 100

58 42.2 32.4 48.6

Instrument :

MSVOA_X

ClientSampleId :

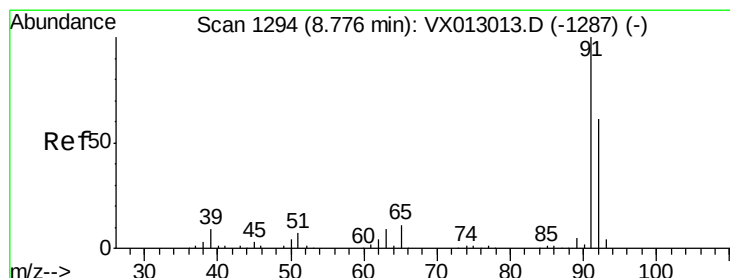
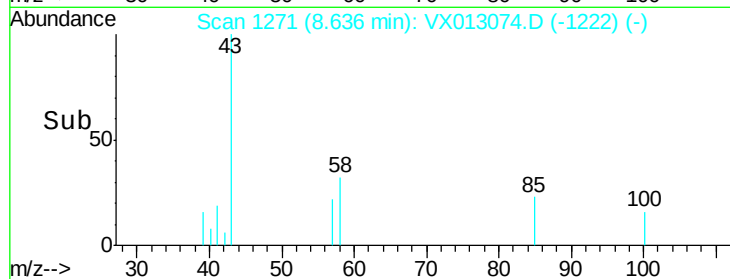
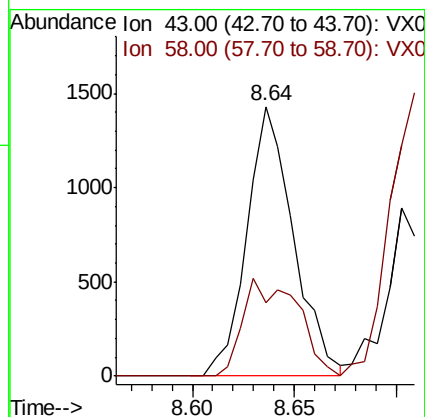
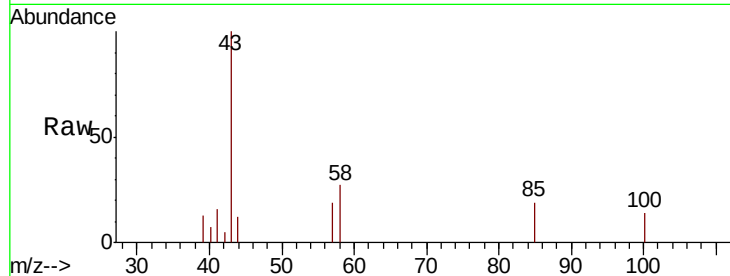
MDL-MDL-WATER-03-QT4-2019DL

Manual Integrations

APPROVED

MMDadoda

10/16/2019 9:57:45 AM



#52

Toluene

Concen: 0.215 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. 0.00 min

Lab File: VX013074.D

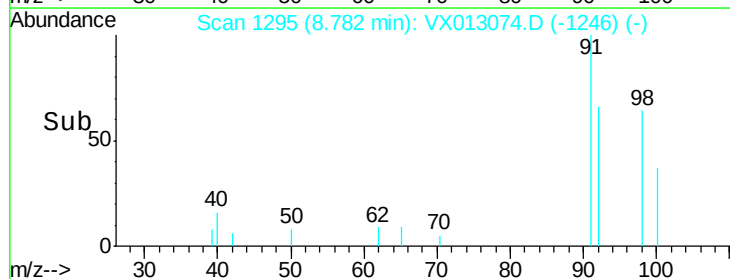
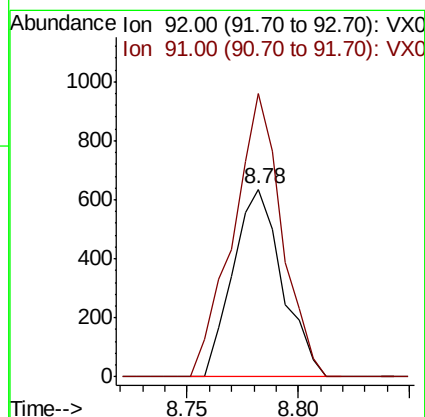
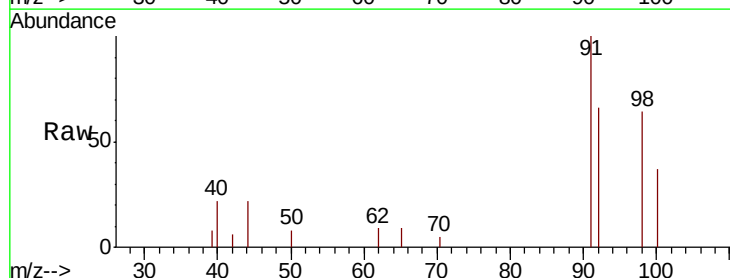
Acq: 15 Oct 2019 13:44

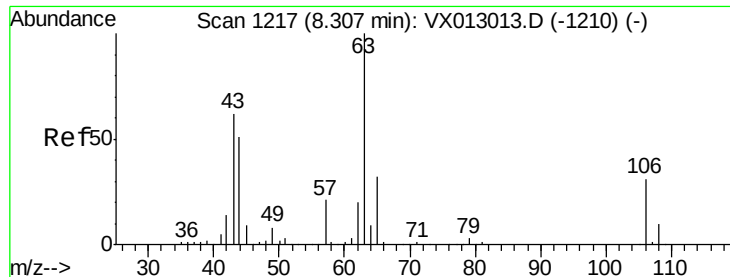
Tgt Ion: 92 Resp: 987

Ion Ratio Lower Upper

92 100

91 149.2 135.9 203.9





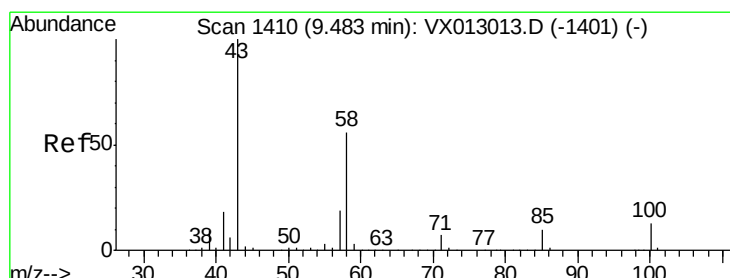
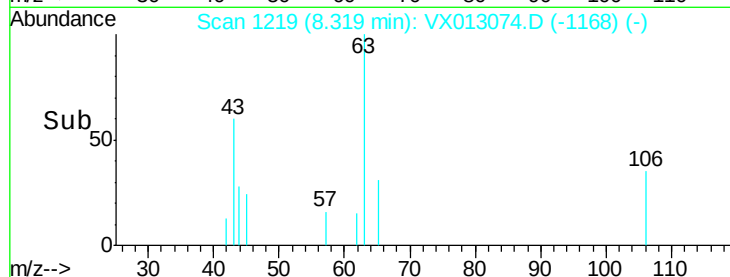
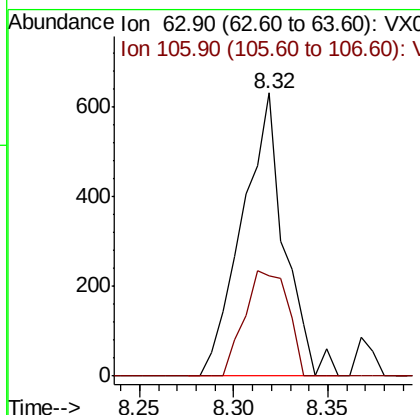
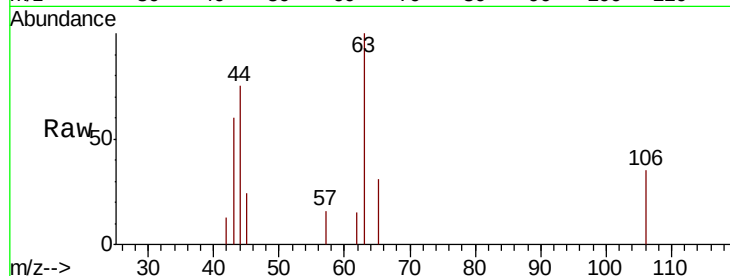
#58
2-Chloroethyl Vinyl ether
Concen: 0.732 ug/l
RT: 8.32 min Scan# 1219
Delta R.T. 0.01 min
Lab File: VX013074.D
Acq: 15 Oct 2019 13:44

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 63 Resp: 979
Ion Ratio Lower Upper
63 100
106 38.1 23.8 35.8#

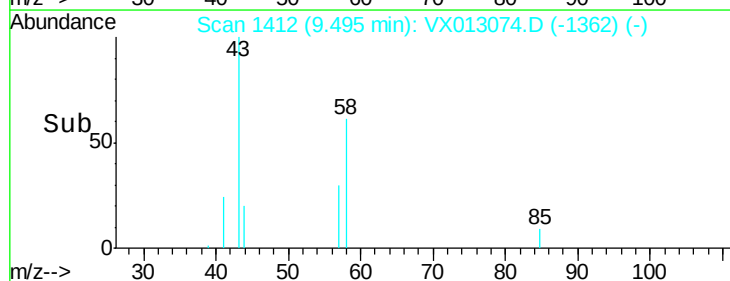
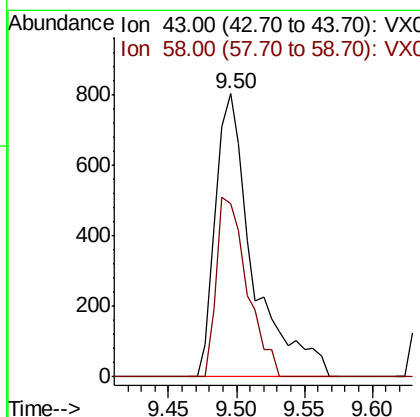
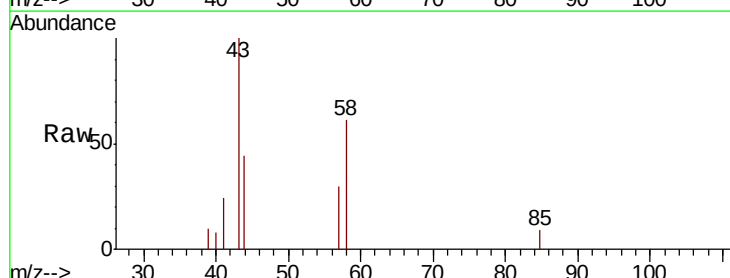
Manual Integrations
APPROVED

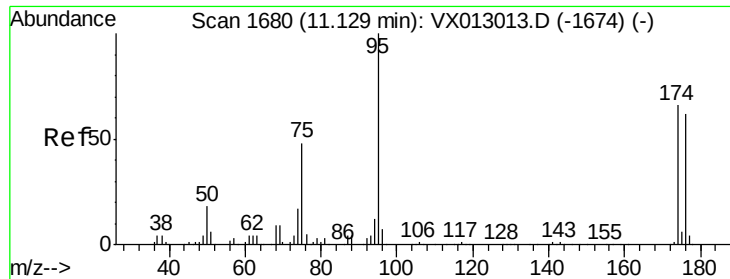
MMDadoda
10/16/2019 9:57:45 AM



#59
2-Hexanone
Concen: 0.727 ug/l
RT: 9.50 min Scan# 1412
Delta R.T. 0.01 min
Lab File: VX013074.D
Acq: 15 Oct 2019 13:44

Tgt Ion: 43 Resp: 1542
Ion Ratio Lower Upper
43 100
58 51.7 28.1 84.3





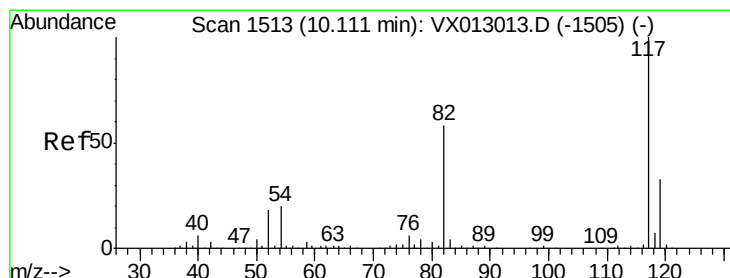
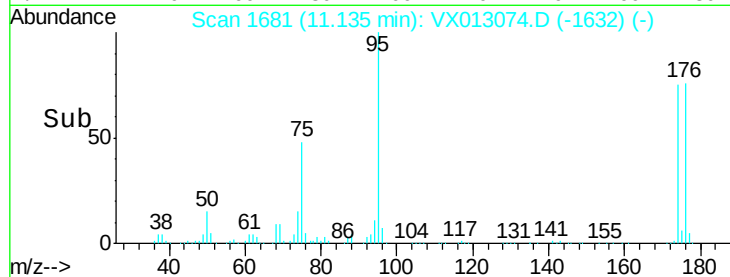
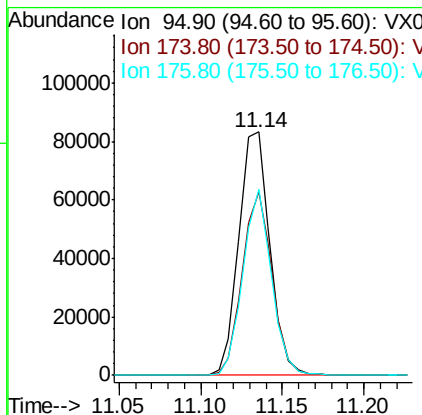
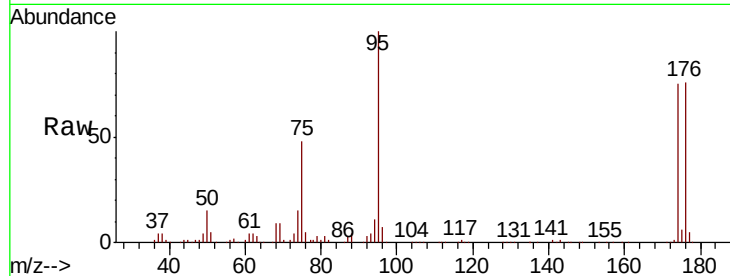
#62
4-Bromofluorobenzene
Concen: 45.944 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX013074.D
Acq: 15 Oct 2019 13:44

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Resp	Lower	Upper
95	100	110630		
174	73.1	0.0	143.4	
176	70.8	0.0	136.0	

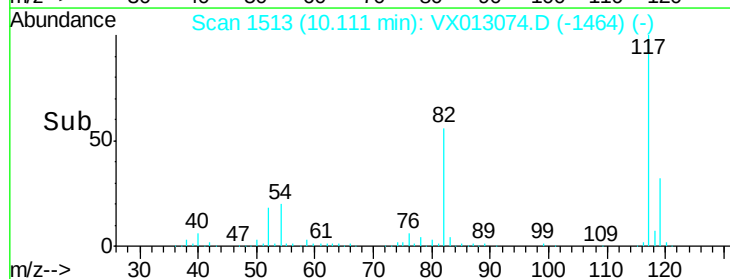
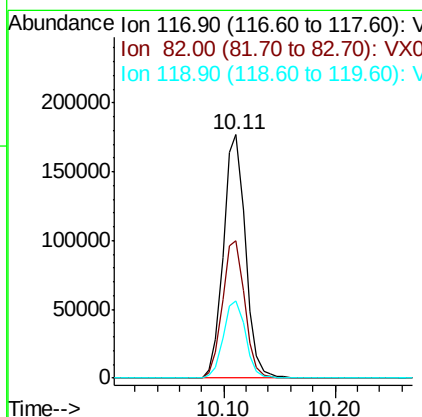
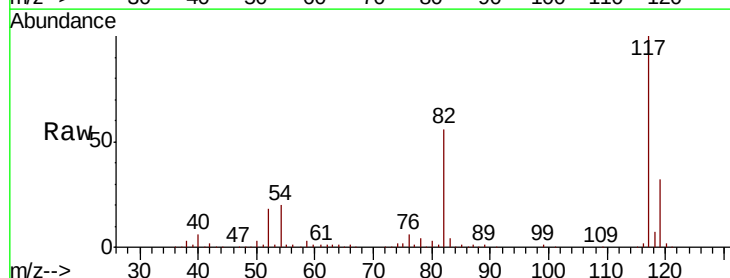
Manual Integrations
APPROVED

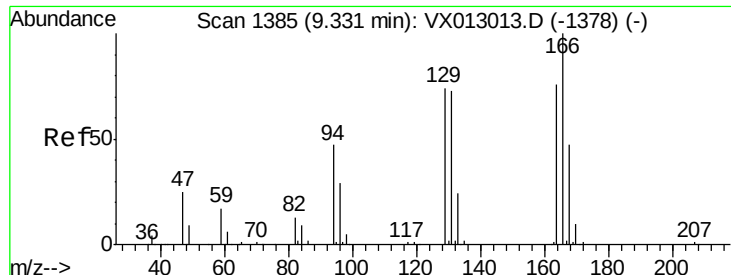
MMDadoda
10/16/2019 9:57:45 AM



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013074.D
Acq: 15 Oct 2019 13:44

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	241971		
82	56.4	44.1	66.1	
119	31.8	25.8	38.8	





#64

Tetrachloroethene

Concen: 0.271 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX013074.D

Acq: 15 Oct 2019 13:44

Instrument :

MSVOA_X

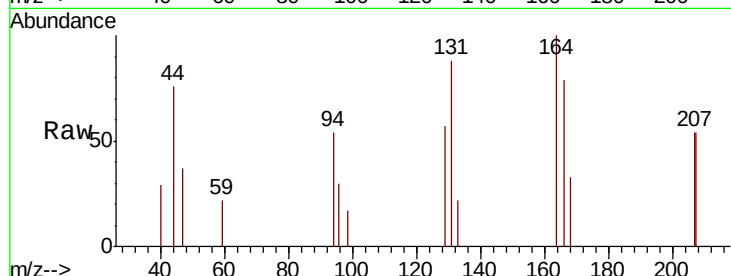
ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:	164	Resp:	454
Ion	Ratio	Lower	Upper
164	100		
166	78.7	96.9	145.3#
129	57.0	77.9	116.9#
131	88.2	72.7	109.1

Manual Integrations
APPROVED

MMDadoda
10/16/2019 9:57:45 AM



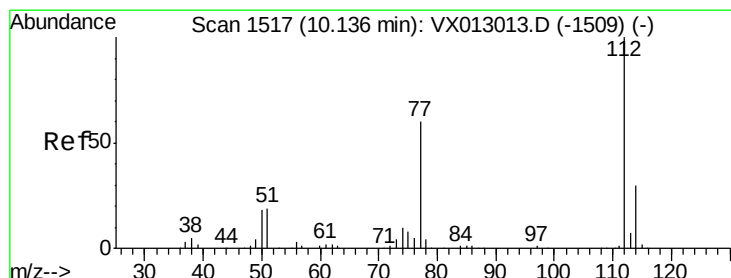
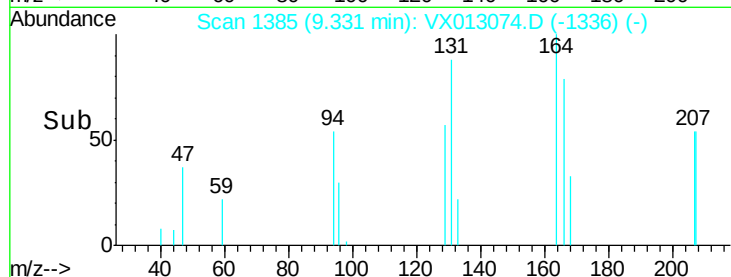
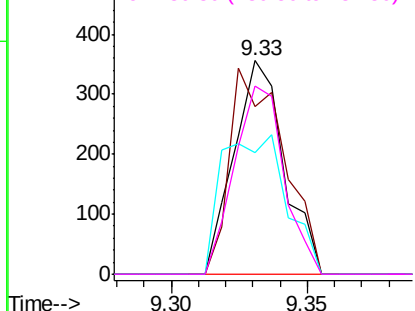
Abundance

Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#65

Chlorobenzene

Concen: 0.220 ug/l

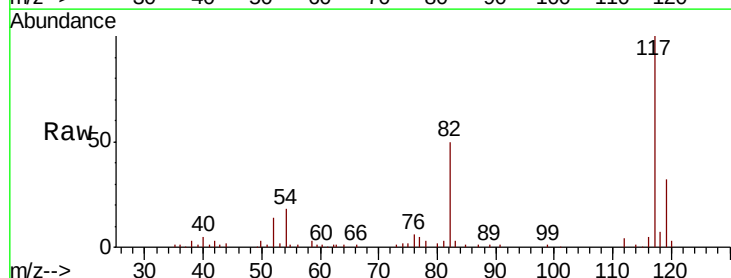
RT: 10.13 min Scan# 1516

Delta R.T. -0.01 min

Lab File: VX013074.D

Acq: 15 Oct 2019 13:44

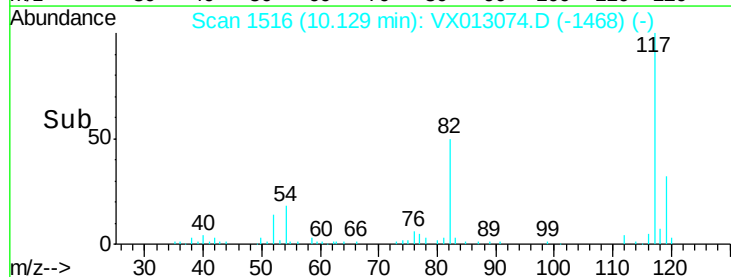
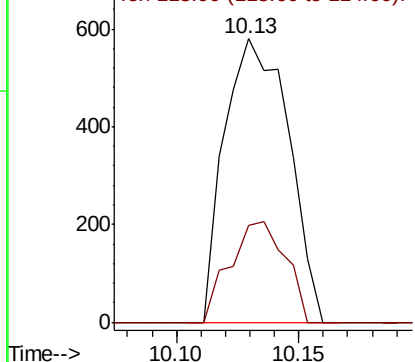
Tgt Ion:	112	Resp:	1058
Ion	Ratio	Lower	Upper
112	100		
114	34.0	25.7	38.5

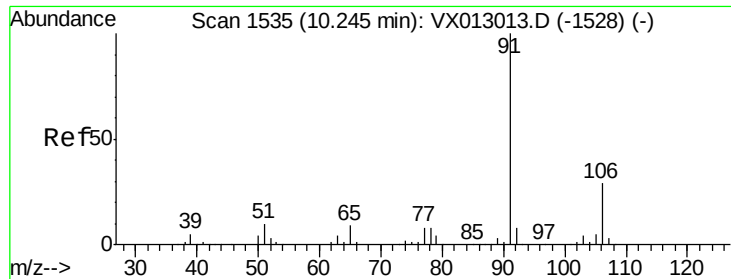


Abundance

Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V





#67

Ethyl Benzene

Concen: 0.201 ug/l

RT: 10.25 min Scan# 1536

Delta R.T. 0.01 min

Lab File: VX013074.D

Acq: 15 Oct 2019 13:44

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 91 Resp: 1716

Ion Ratio Lower Upper

91 100

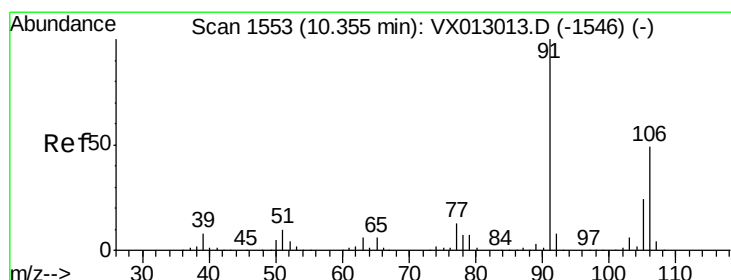
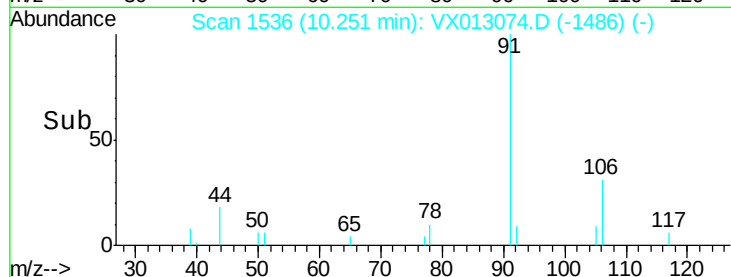
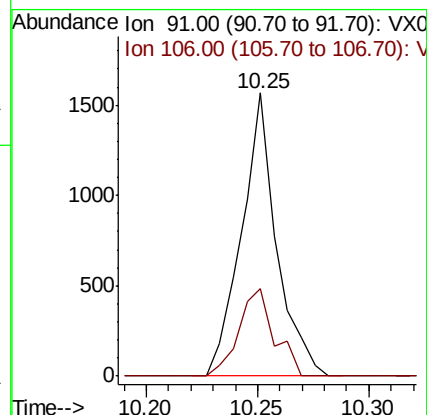
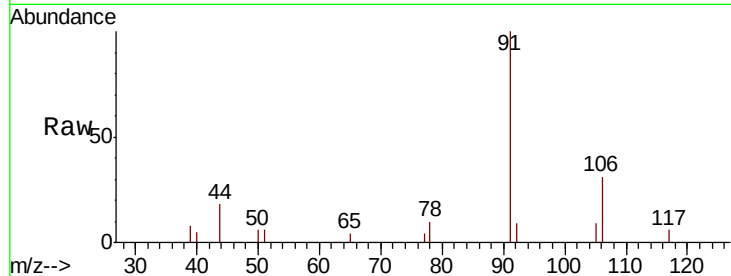
106 31.1 23.9 35.9

Manual Integrations

APPROVED

MMDadoda

10/16/2019 9:57:45 AM



#68

m/p-Xylenes

Concen: 0.394 ug/l

RT: 10.36 min Scan# 1553

Delta R.T. 0.00 min

Lab File: VX013074.D

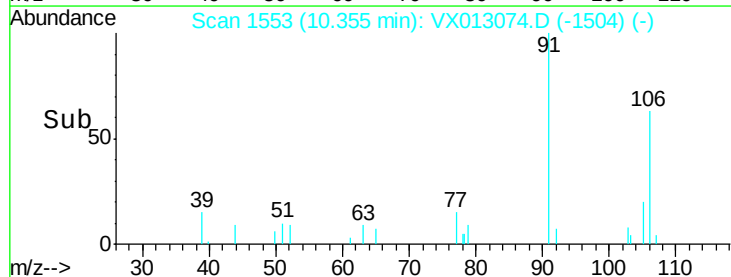
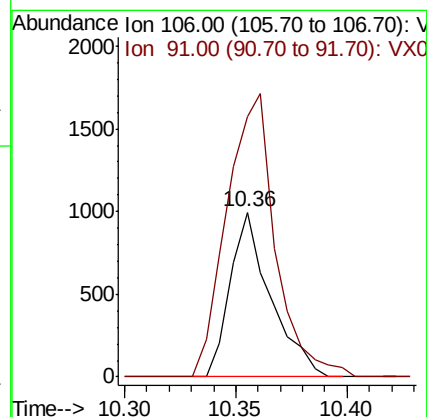
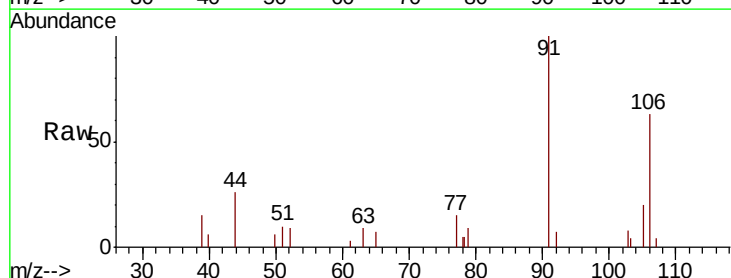
Acq: 15 Oct 2019 13:44

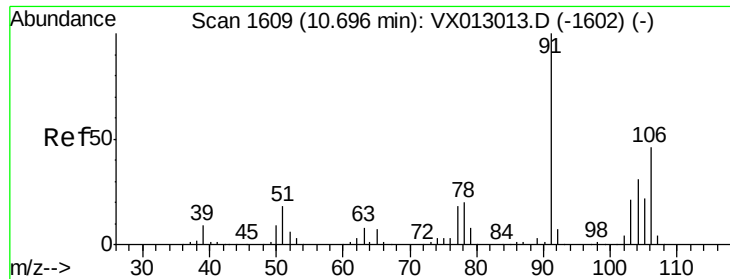
Tgt Ion: 106 Resp: 1256

Ion Ratio Lower Upper

106 100

91 207.6 165.3 247.9





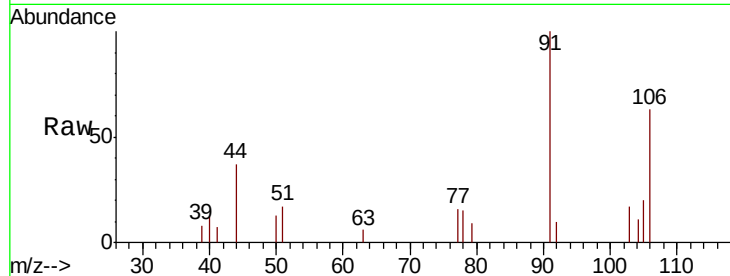
#69
o-Xylene
Concen: 0.215 ug/l
RT: 10.70 min Scan# 1609
Delta R.T. 0.00 min
Lab File: VX013074.D
Acq: 15 Oct 2019 13:44

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

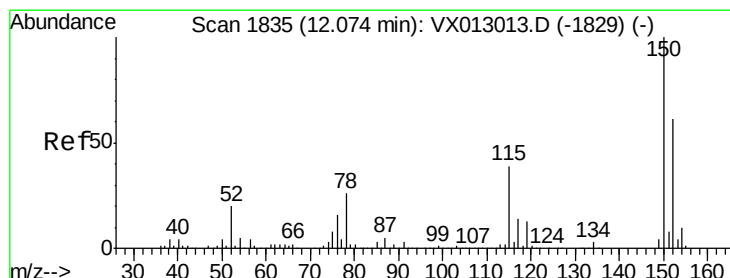
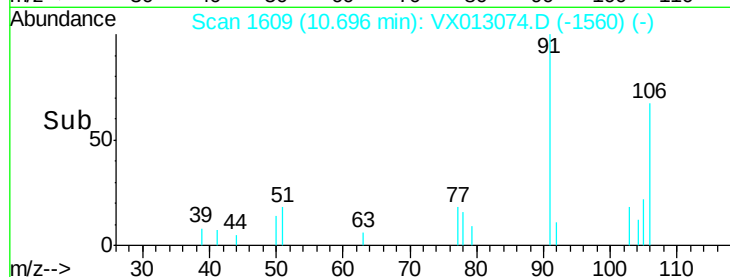
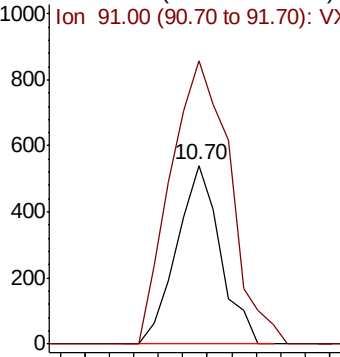
Tot Ion:106 Resp: 668
Ion Ratio Lower Upper
106 100
91 216.9 109.1 327.3

Manual Integrations
APPROVED

MMDadoda
10/16/2019 9:57:45 AM

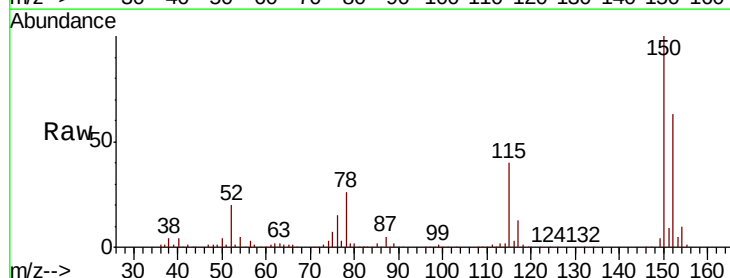


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX

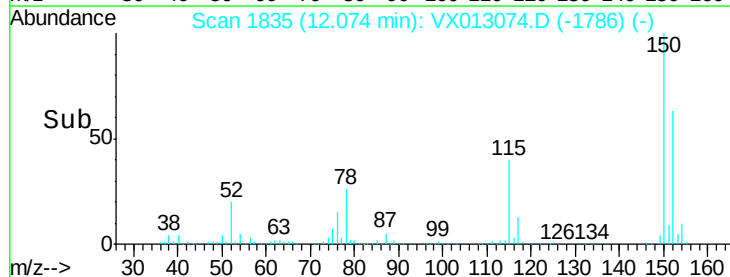
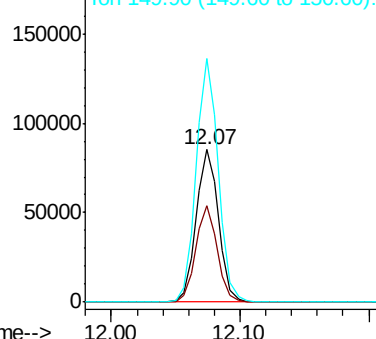


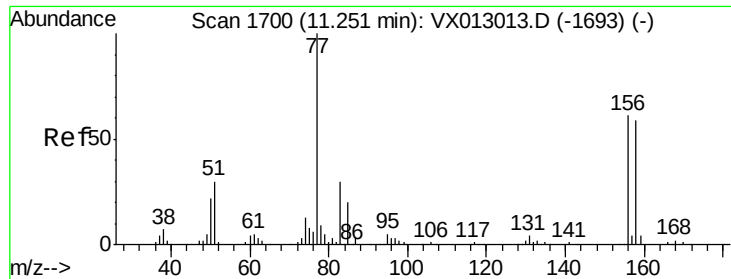
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX013074.D
Acq: 15 Oct 2019 13:44

Tgt Ion:152 Resp: 103499
Ion Ratio Lower Upper
152 100
115 61.0 44.5 133.5
150 158.8 0.0 353.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#77

Bromobenzene

Concen: 0.270 ug/l

RT: 11.25 min Scan# 1700

Delta R.T. 0.00 min

Lab File: VX013074.D

Acq: 15 Oct 2019 13:44

Instrument :

MSVOA_X

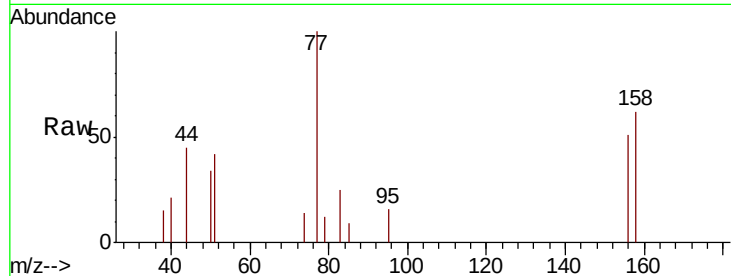
ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

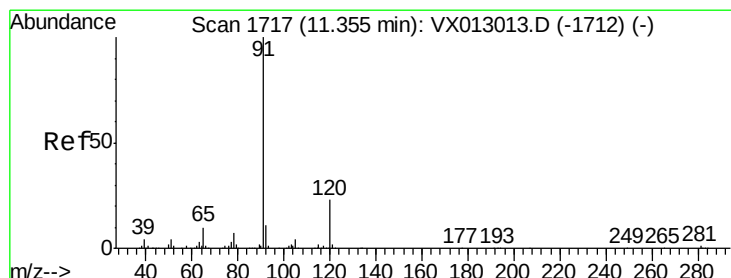
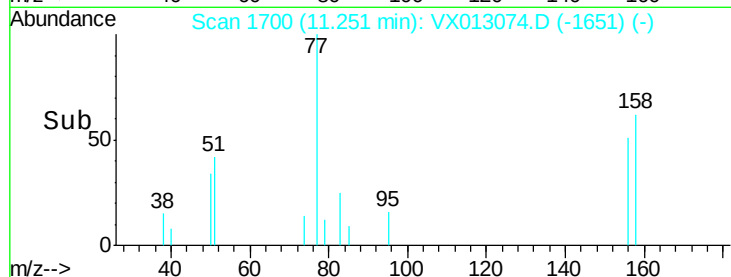
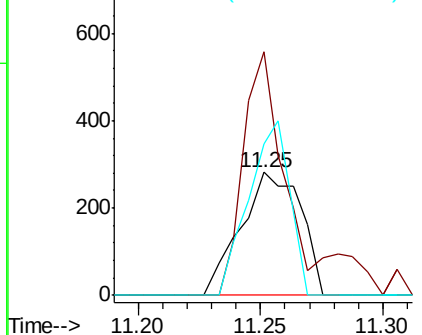
Tot Ion:	156	Resp:	484
Ion	Ratio	Lower	Upper
156	100		
77	135.3	83.7	251.0
158	96.7	48.6	145.9

Manual Integrations
APPROVED

MMDadoda
10/16/2019 9:57:45 AM



Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.70): VX0
Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 0.216 ug/l

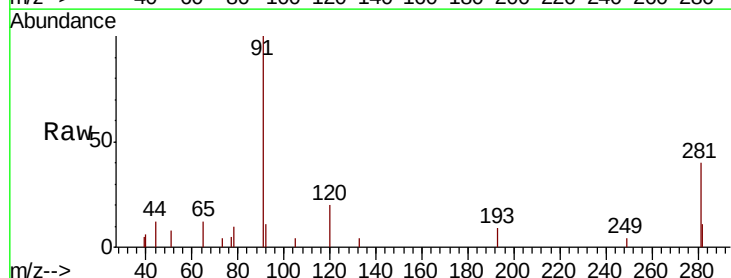
RT: 11.35 min Scan# 1717

Delta R.T. 0.00 min

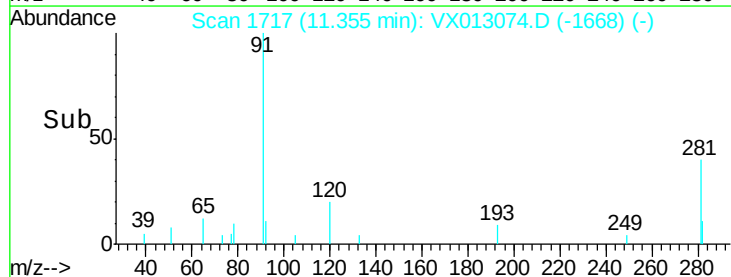
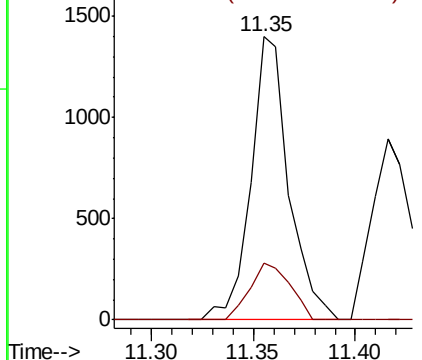
Lab File: VX013074.D

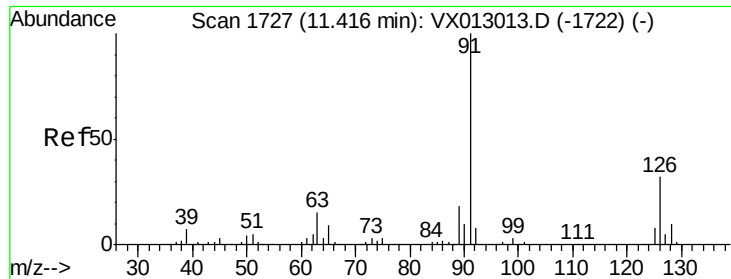
Acq: 15 Oct 2019 13:44

Tgt Ion:	91	Resp:	1810
Ion	Ratio	Lower	Upper
91	100		
120	21.2	11.7	35.1



Abundance Ion 91.00 (90.70 to 91.70): VX0
Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 0.221 ug/l

RT: 11.42 min Scan# 1727

Delta R.T. 0.00 min

Lab File: VX013074.D

Acq: 15 Oct 2019 13:44

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 91 Resp: 1161

Ion Ratio Lower Upper

91 100

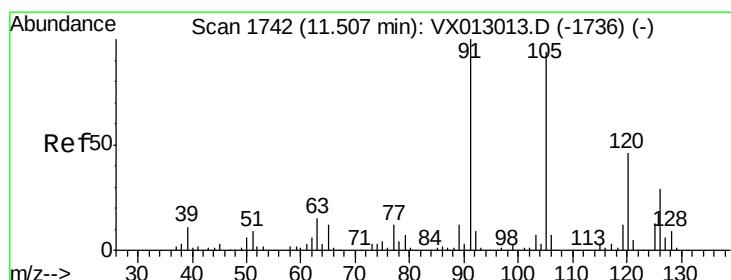
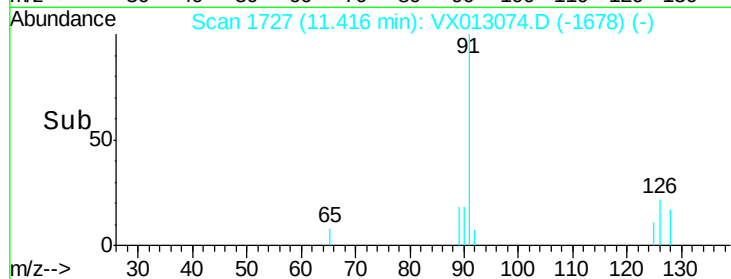
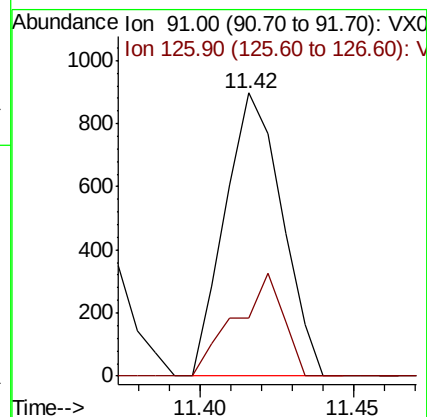
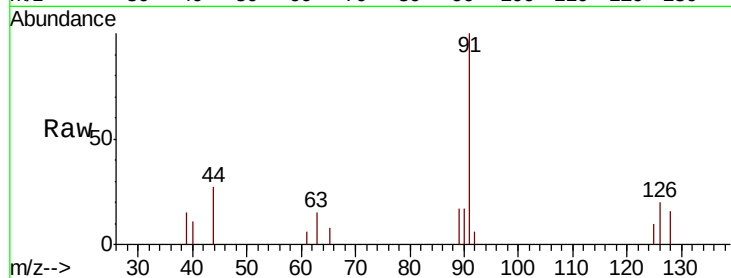
126 30.5 16.3 48.8

Manual Integrations

APPROVED

MMDadoda

10/16/2019 9:57:45 AM



#82

4-Chlorotoluene

Concen: 0.224 ug/l

RT: 11.51 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VX013074.D

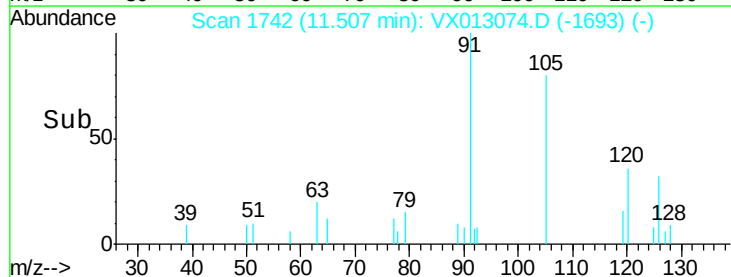
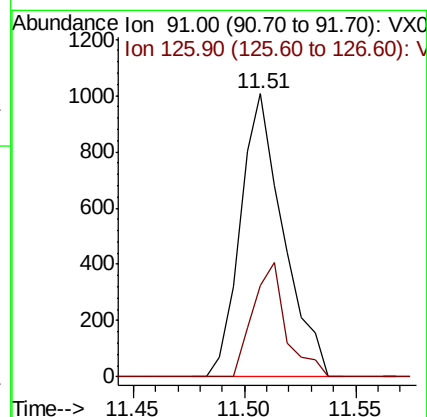
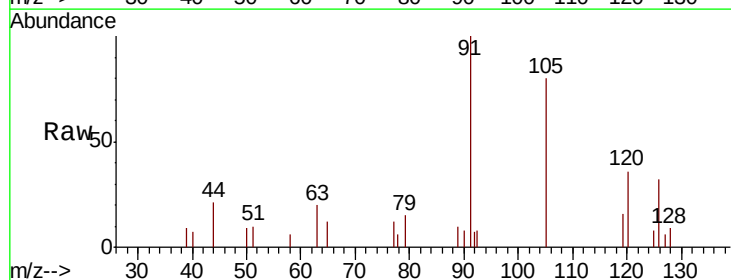
Acq: 15 Oct 2019 13:44

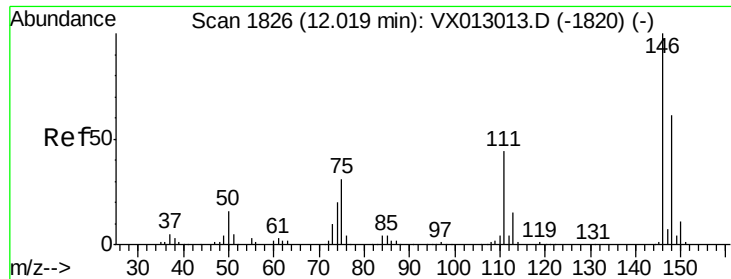
Tgt Ion: 91 Resp: 1349

Ion Ratio Lower Upper

91 100

126 31.3 14.2 42.6





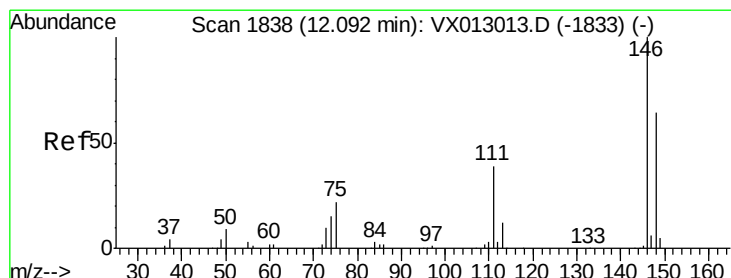
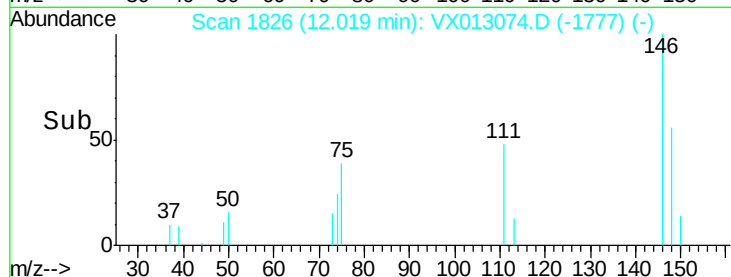
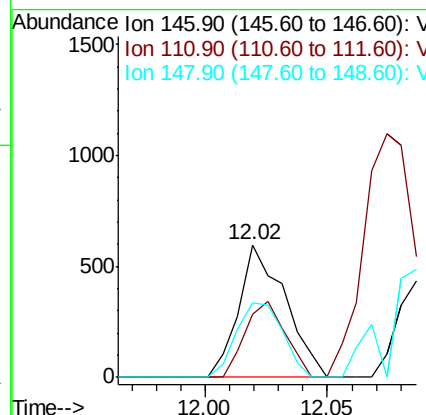
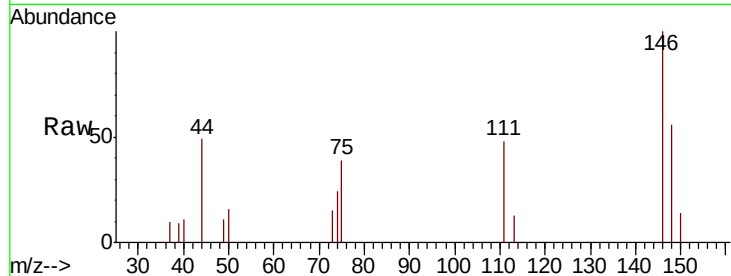
#87
 1,3-Dichlorobenzene
 Concen: 0.238 ug/l
 RT: 12.02 min Scan# 1826
 Delta R.T. 0.00 min
 Lab File: VX013074.D
 Acq: 15 Oct 2019 13:44

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.8	21.1	63.4
148	56.1	31.6	95.0

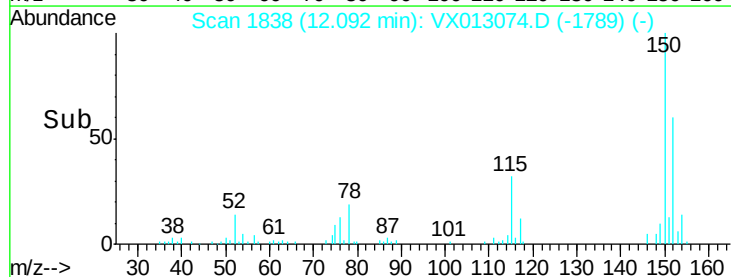
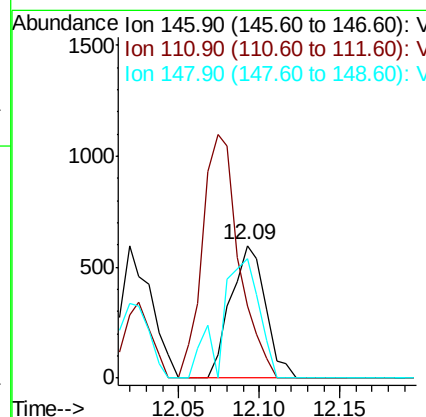
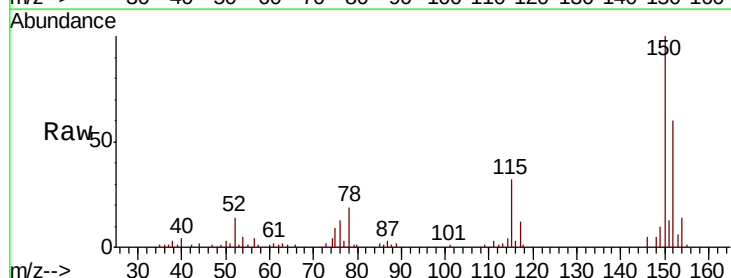
Manual Integrations
 APPROVED

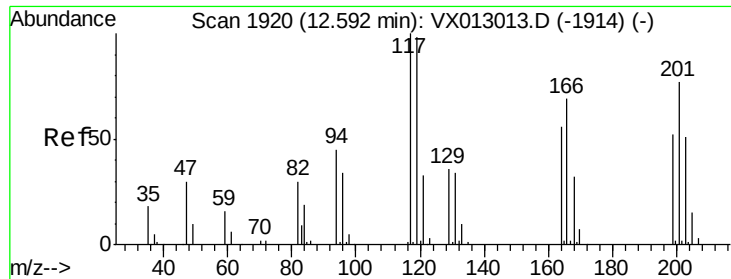
MMDadoda
 10/16/2019 9:57:45 AM



#88
 1,4-Dichlorobenzene
 Concen: 0.265 ug/l m
 RT: 12.09 min Scan# 1838
 Delta R.T. 0.00 min
 Lab File: VX013074.D
 Acq: 15 Oct 2019 13:44

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.4	64.3
148	49.6	32.1	96.5





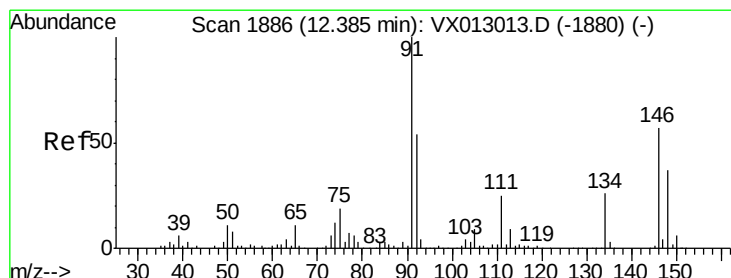
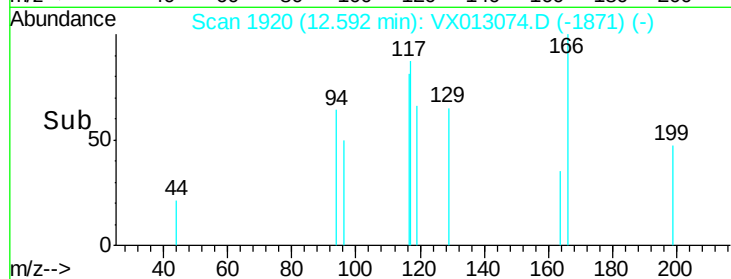
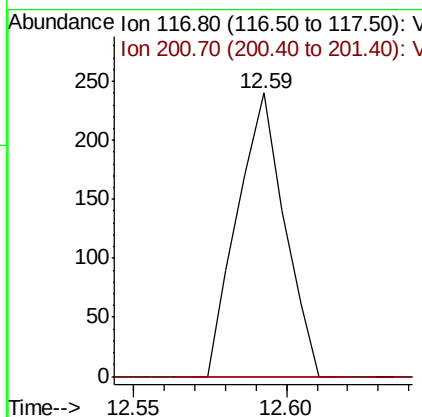
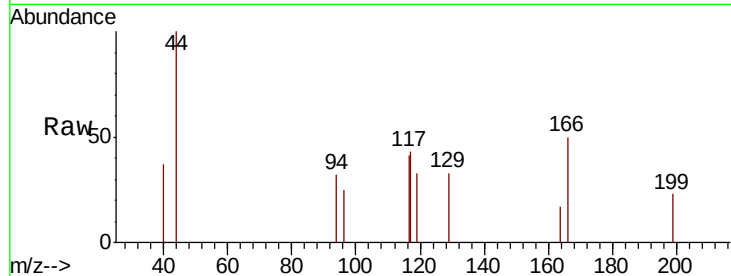
#90
Hexachloroethane
Concen: 0.238 ug/l
RT: 12.59 min Scan# 1920
Delta R.T. 0.00 min
Lab File: VX013074.D
Acq: 15 Oct 2019 13:44

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:117 Resp: 257
Ion Ratio Lower Upper
117 100
201 0.0 36.9 110.7#

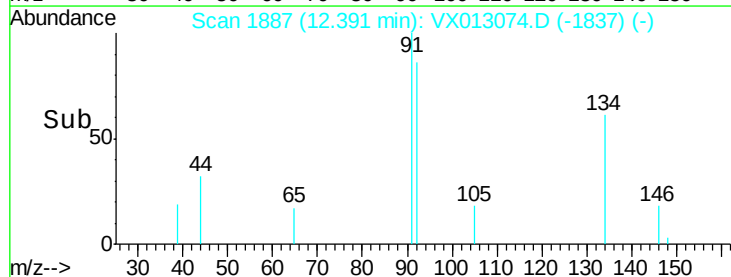
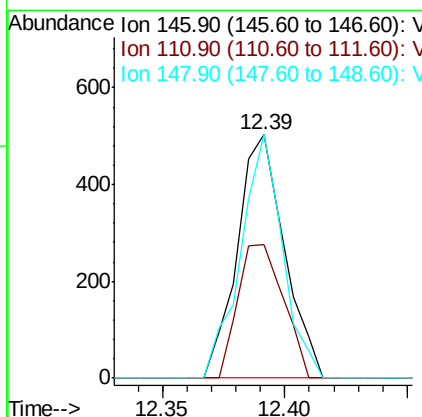
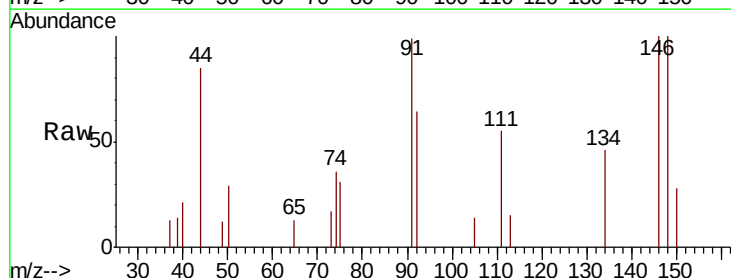
Manual Integrations
APPROVED

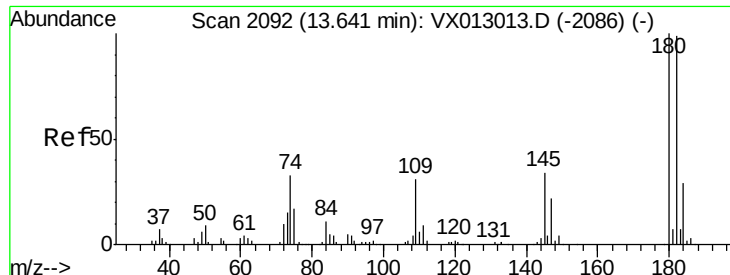
MMDadoda
10/16/2019 9:57:45 AM



#91
1,2-Dichlorobenzene
Concen: 0.206 ug/l
RT: 12.39 min Scan# 1887
Delta R.T. 0.01 min
Lab File: VX013074.D
Acq: 15 Oct 2019 13:44

Tgt Ion:146 Resp: 671
Ion Ratio Lower Upper
146 100
111 52.9 22.7 68.0
148 89.1 31.6 94.7





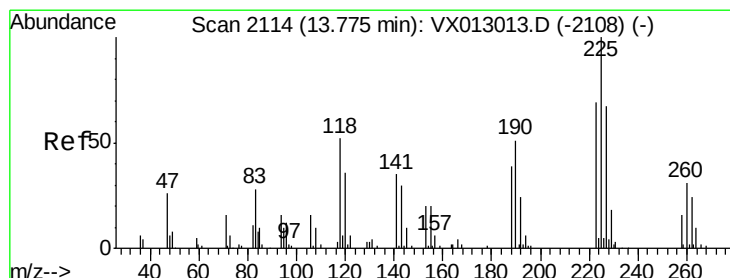
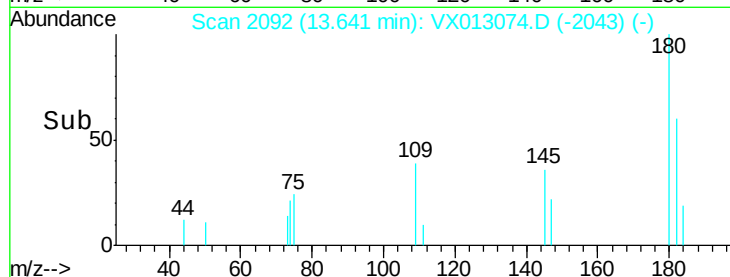
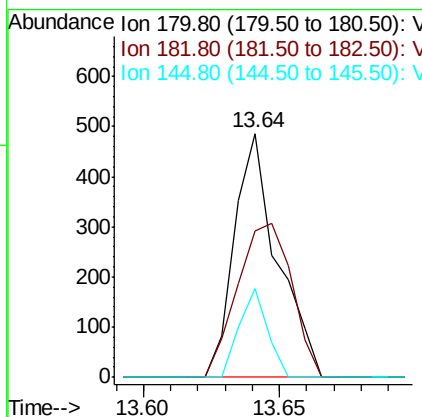
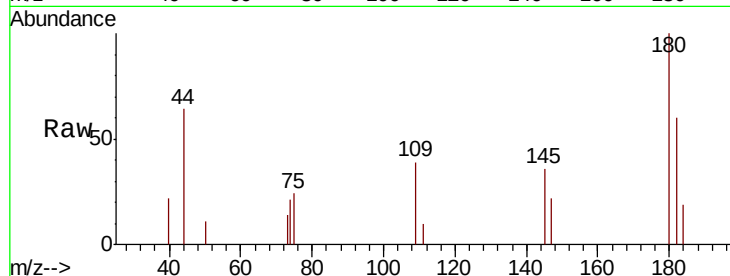
#93
 1,2,4-Trichlorobenzene
 Concen: 0.261 ug/l
 RT: 13.64 min Scan# 2092
 Delta R.T. 0.00 min
 Lab File: VX013074.D
 Acq: 15 Oct 2019 13:44

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
180	100		
182	79.5	46.8	140.4
145	23.8	16.2	48.6

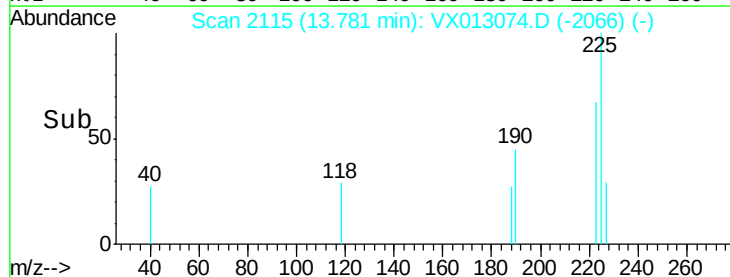
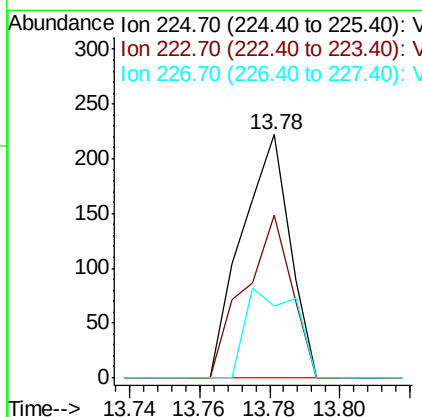
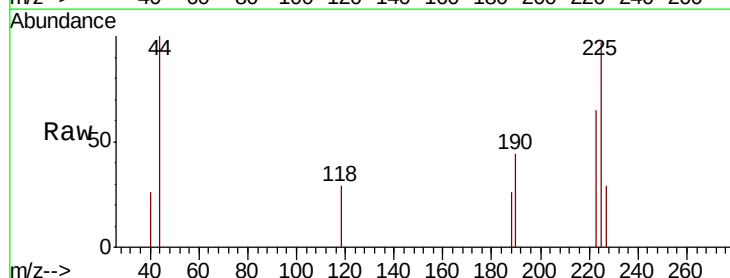
Manual Integrations
 APPROVED

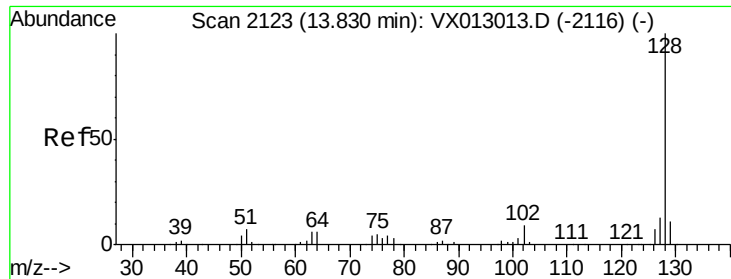
MMDadoda
 10/16/2019 9:57:45 AM



#94
 Hexachlorobutadiene
 Concen: 0.224 ug/l
 RT: 13.78 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VX013074.D
 Acq: 15 Oct 2019 13:44

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.9	31.1	93.2
227	37.9	32.3	96.9





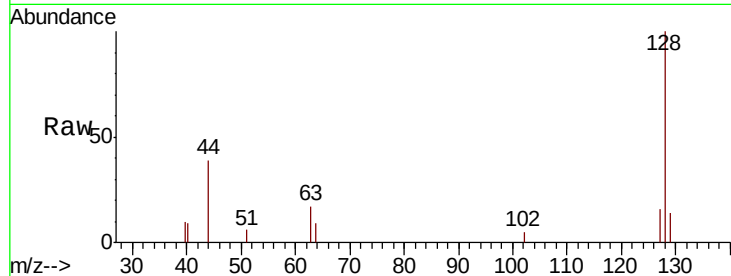
#95
Naphthalene
Concen: 0.201 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX013074.D
Acq: 15 Oct 2019 13:44

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

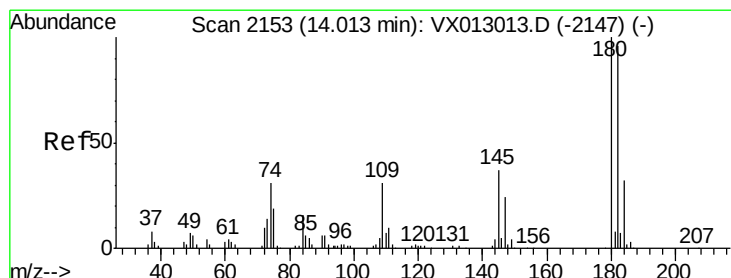
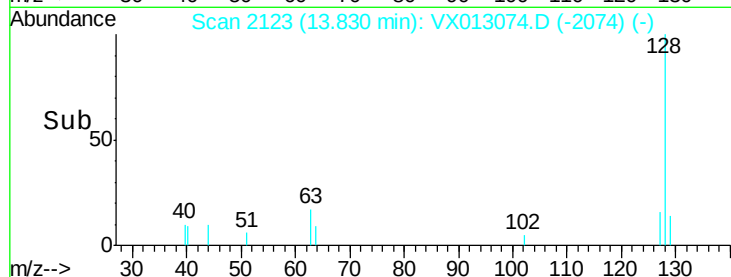
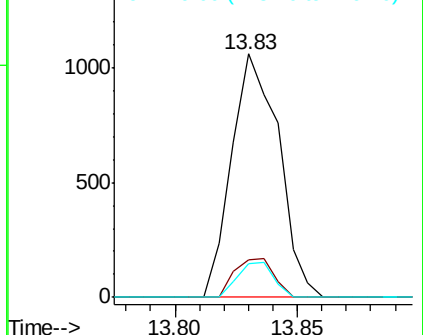
Tot Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.2	15.4
129	11.1	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
10/16/2019 9:57:45 AM



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 0.210 ug/l
RT: 14.03 min Scan# 2155
Delta R.T. 0.01 min
Lab File: VX013074.D
Acq: 15 Oct 2019 13:44

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.1	47.5	142.5
145	30.0	17.4	52.3

Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

