

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX050620\
 Data File : VX016078.D
 Acq On : 06 May 2020 13:05
 Operator : JC/SP
 Sample : L2182-09 .5PPB MDL
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT2-2020DL

Manual Integrations
 APPROVED

MMDadoda
 5/8/2020 11:54:53 AM

Quant Time: May 07 07:54:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 07 07:43:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	302317	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	476750	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	430404	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	206075	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	194542	48.90	ug/l	0.00
Spiked Amount			Recovery	=	97.80%	
35) Dibromofluoromethane	5.47	113	146313	48.44	ug/l	0.00
Spiked Amount			Recovery	=	96.88%	
50) Toluene-d8	8.70	98	586059	50.36	ug/l	0.00
Spiked Amount			Recovery	=	100.72%	
62) 4-Bromofluorobenzene	11.12	95	211535	47.79	ug/l	0.00
Spiked Amount			Recovery	=	95.58%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	1328	0.415	ug/l	78
3) Chloromethane	1.32	50	1903	0.512	ug/l #	88
4) Vinyl Chloride	1.39	62	1579	0.398	ug/l #	83
5) Bromomethane	1.64	94	1342	0.671	ug/l #	71
6) Chloroethane	1.72	64	1091	0.452	ug/l #	76
7) Trichlorofluoromethane	1.92	101	2343	0.450	ug/l	95
8) Diethyl Ether	2.17	74	1281	0.584	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	2.37	101	1436	0.478	ug/l	95
10) Methyl Iodide	2.49	142	1564	0.388	ug/l	95
11) Tert butyl alcohol	3.00	59	2082	2.070	ug/l	97
12) 1,1-Dichloroethene	2.36	96	1858	0.591	ug/l #	88
13) Acrolein	2.27	56	1885	2.994	ug/l	90
14) Allyl chloride	2.71	41	2256	0.392	ug/l #	85
15) Acrylonitrile	3.12	53	4577	2.193	ug/l	97
16) Acetone	2.42	43	4211	2.372	ug/l	97
17) Carbon Disulfide	2.56	76	6334	0.592	ug/l	96
18) Methyl Acetate	2.75	43	2028	0.465	ug/l #	83
19) Methyl tert-butyl Ether	3.17	73	4500	0.415	ug/l #	90
20) Methylene Chloride	2.84	84	1966	0.537	ug/l #	89
21) trans-1,2-Dichloroethene	3.14	96	1797	0.513	ug/l	91
22) Diisopropyl ether	3.82	45	4447	0.409	ug/l #	65
23) Vinyl Acetate	3.79	43	16637	1.740	ug/l	99
24) 1,1-Dichloroethane	3.67	63	2483	0.408	ug/l #	82
25) 2-Butanone	4.64	43	6003	2.099	ug/l #	83
26) 2,2-Dichloropropane	4.54	77	2287	0.412	ug/l #	53
27) cis-1,2-Dichloroethene	4.56	96	2321	0.606	ug/l	67
28) Bromochloromethane	4.99	49	1434	0.517	ug/l #	87
29) Tetrahydrofuran	5.10	42	3633	1.917	ug/l	95
30) Chloroform	5.17	83	2591	0.428	ug/l #	83
31) Cyclohexane	5.56	56	2214	0.401	ug/l #	83
32) 1,1,1-Trichloroethane	5.46	97	2379	0.432	ug/l #	50
36) 1,1-Dichloropropene	5.78	75	2522	0.537	ug/l	95
37) Ethyl Acetate	4.80	43	2432	0.447	ug/l #	84
38) Carbon Tetrachloride	5.76	117	2153	0.451	ug/l #	88

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX050620\
 Data File : VX016078.D
 Acq On : 06 May 2020 13:05
 Operator : JC/SP
 Sample : L2182-09 .5PPB MDL
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT2-2020DL

Manual Integrations
 APPROVED

MMDadoda
 5/8/2020 11:54:53 AM

Quant Time: May 07 07:54:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 07 07:43:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.45	83	2444	0.432	ug/l	95
40) Benzene	6.11	78	6188	0.451	ug/l	92
41) Methacrylonitrile	5.01	41	1507	0.513	ug/l #	49
42) 1,2-Dichloroethane	6.17	62	2513	0.508	ug/l	90
43) Isopropyl Acetate	6.42	43	3659	0.422	ug/l	99
44) Trichloroethene	7.20	130	2197	0.450	ug/l	95
45) 1,2-Dichloropropane	7.49	63	1509	0.434	ug/l #	85
46) Dibromomethane	7.65	93	1009	0.427	ug/l	94
47) Bromodichloromethane	7.88	83	1714	0.356	ug/l #	93
48) Methyl methacrylate	7.76	41	1806	0.439	ug/l #	84
49) 1,4-Dioxane	7.72	88	846	8.578	ug/l #	69
51) 4-Methyl-2-Pentanone	8.62	43	9624	1.812	ug/l	98
52) Toluene	8.77	92	3667	0.428	ug/l	98
53) t-1,3-Dichloropropene	9.02	75	2277	0.397	ug/l	92
54) cis-1,3-Dichloropropene	8.42	75	2373	0.396	ug/l #	92
55) 1,1,2-Trichloroethane	9.20	97	1387	0.412	ug/l #	91
56) Ethyl methacrylate	9.16	69	2146	0.390	ug/l #	88
57) 1,3-Dichloropropane	9.35	76	2396	0.408	ug/l #	82
58) 2-Chloroethyl Vinyl ether	8.29	63	5830	1.992	ug/l	98
59) 2-Hexanone	9.47	43	6963	1.670	ug/l	95
60) Dibromochloromethane	9.57	129	1456	0.393	ug/l	93
61) 1,2-Dibromoethane	9.65	107	1538	0.422	ug/l	96
64) Tetrachloroethene	9.32	164	2474	0.468	ug/l #	90
65) Chlorobenzene	10.12	112	4030	0.447	ug/l	96
66) 1,1,1,2-Tetrachloroethane	10.21	131	1251	0.376	ug/l #	61
67) Ethyl Benzene	10.24	91	6893	0.429	ug/l	96
68) m/p-Xylenes	10.34	106	4950	0.822	ug/l	95
69) o-Xylene	10.68	106	2174	0.375	ug/l	94
70) Styrene	10.70	104	3800	0.387	ug/l	94
71) Bromoform	10.84	173	936	0.345	ug/l #	99
73) Isopropylbenzene	11.00	105	6273	0.419	ug/l	96
74) N-amyl acetate	10.88	43	2539	0.363	ug/l #	94
75) 1,1,2,2-Tetrachloroethane	11.25	83	1023	0.387	ug/l	98
76) 1,2,3-Trichloropropane	11.28	75	2051m	0.439	ug/l	
77) Bromobenzene	11.24	156	1779	0.460	ug/l	94
78) n-propylbenzene	11.34	91	7415	0.425	ug/l	100
79) 2-Chlorotoluene	11.40	91	4573	0.444	ug/l	97
80) 1,3,5-Trimethylbenzene	11.49	105	4966	0.392	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.06	75	824m	0.420	ug/l	
82) 4-Chlorotoluene	11.49	91	5439	0.447	ug/l	99
83) tert-Butylbenzene	11.76	119	4562	0.418	ug/l	95
84) 1,2,4-Trimethylbenzene	11.79	105	5120	0.400	ug/l	97
85) sec-Butylbenzene	11.93	105	5860	0.398	ug/l	100
86) p-Isopropyltoluene	12.05	119	5667	0.414	ug/l	88
87) 1,3-Dichlorobenzene	12.01	146	3330	0.479	ug/l	97
88) 1,4-Dichlorobenzene	12.08	146	3555m	0.504	ug/l	
89) n-Butylbenzene	12.37	91	5805	0.465	ug/l	97
90) Hexachloroethane	12.59	117	805	0.343	ug/l	95
91) 1,2-Dichlorobenzene	12.38	146	2946	0.440	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	12.98	75	496	0.402	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050620\
Data File : VX016078.D
Acq On : 06 May 2020 13:05
Operator : JC/SP
Sample : L2182-09 .5PPB MDL
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Manual Integrations
APPROVED

MMDadoda
5/8/2020 11:54:53 AM

Quant Time: May 07 07:54:21 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
Quant Title : SW846 8260
QLast Update : Thu May 07 07:43:09 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.63	180	2588	0.523	ug/l	99
94) Hexachlorobutadiene	13.76	225	1112	0.486	ug/l	92
95) Naphthalene	13.82	128	6968	0.435	ug/l	99
96) 1,2,3-Trichlorobenzene	14.01	180	2550	0.527	ug/l	90

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion:168 Resp: 302317

Ion Ratio Lower Upper

168 100

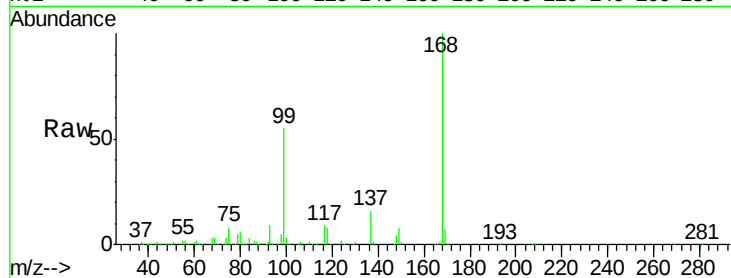
99 54.8 45.0 67.4

Manual Integrations

APPROVED

MMDadoda

5/8/2020 11:54:53 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

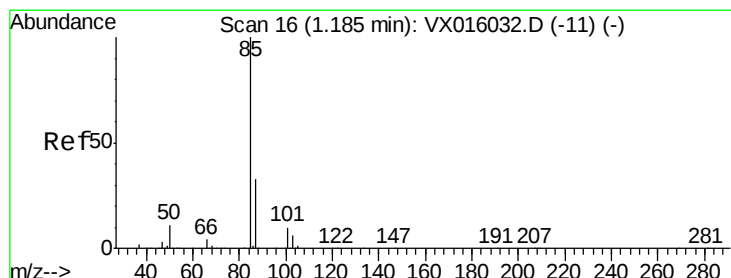
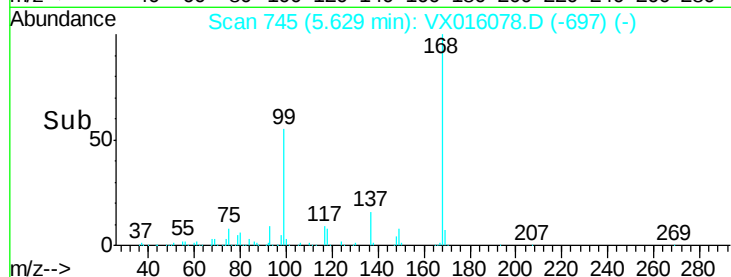
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.415 ug/l

RT: 1.18 min Scan# 16

Delta R.T. -0.00 min

Lab File: VX016078.D

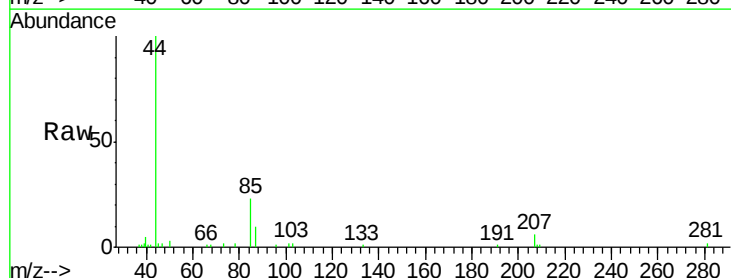
Acq: 06 May 2020 13:05

Tgt Ion: 85 Resp: 1328

Ion Ratio Lower Upper

85 100

87 45.0 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

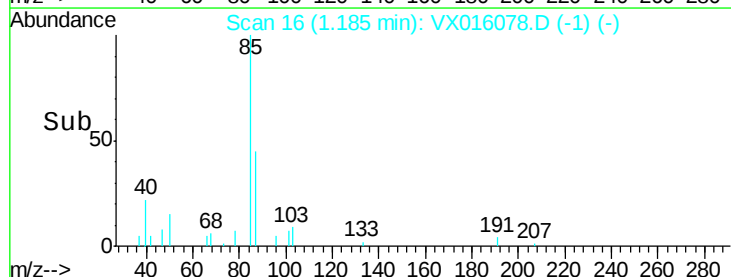
1500

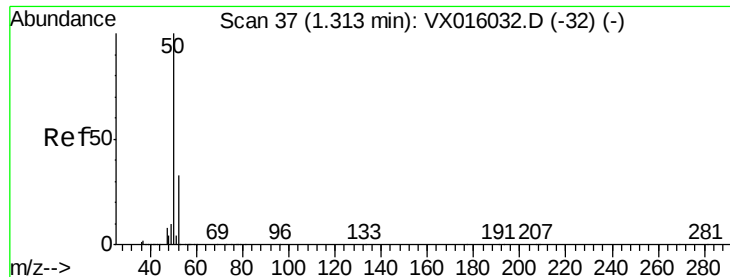
1000

500

0

Time-->





#3

Chloromethane

Concen: 0.512 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Instrument :

MSVOA_X

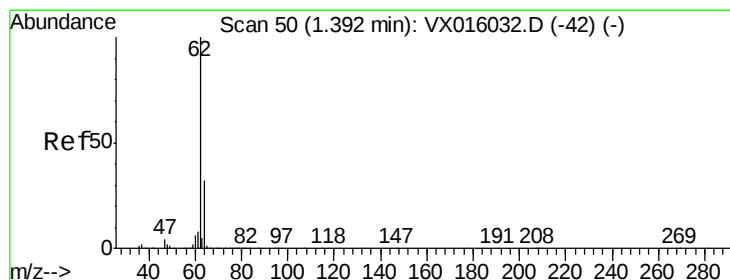
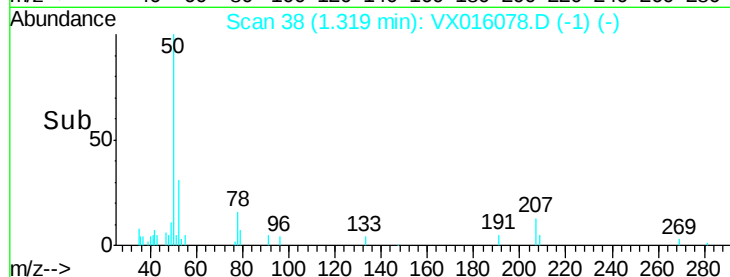
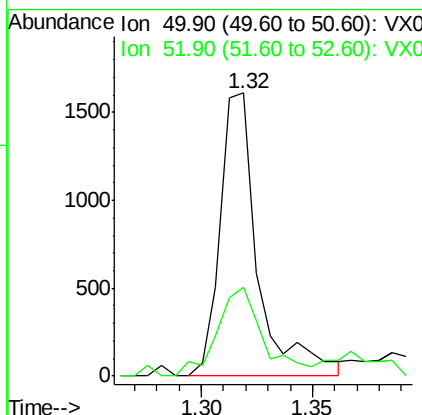
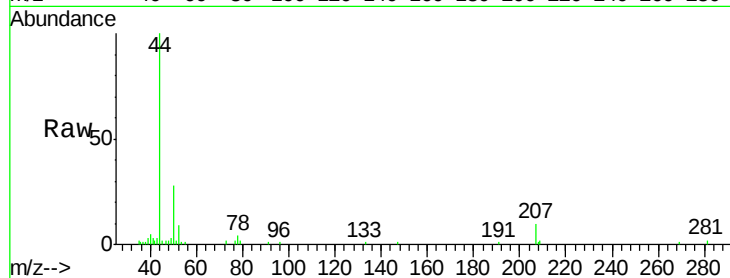
ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion	50	Resp	1903
Ion	Ratio	Lower	Upper
50	100		
52	26.0	26.1	39.1#

Manual Integrations
APPROVED

MMDadoda
5/8/2020 11:54:53 AM



#4

Vinyl Chloride

Concen: 0.398 ug/l

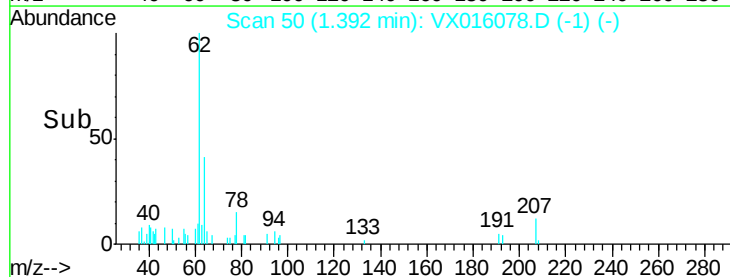
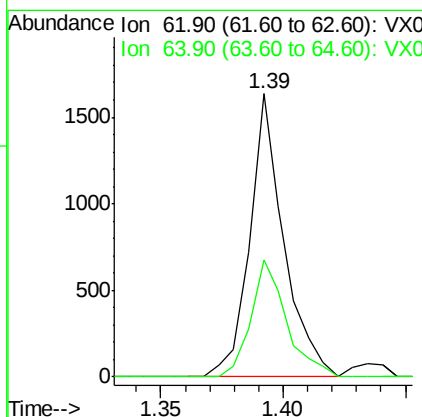
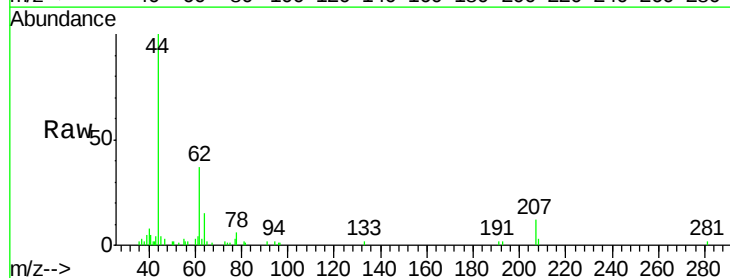
RT: 1.39 min Scan# 50

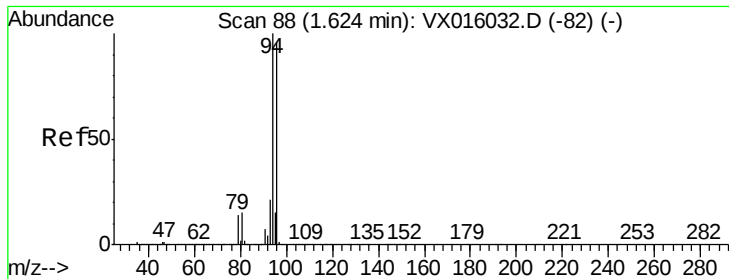
Delta R.T. -0.00 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Tgt Ion	62	Resp	1579
Ion	Ratio	Lower	Upper
62	100		
64	41.3	25.7	38.5#





#5

Bromomethane

Concen: 0.671 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion: 94 Resp: 1342

Ion Ratio Lower Upper

94 100

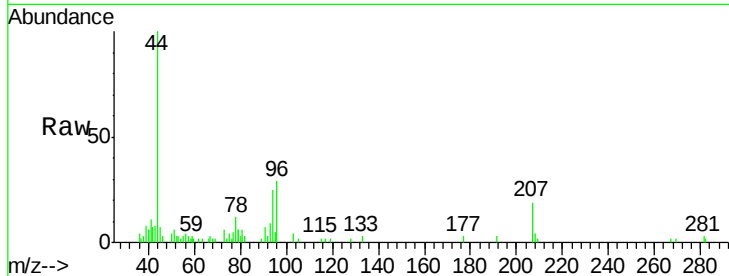
96 124.4 76.9 115.3#

Manual Integrations

APPROVED

MMDadoda

5/8/2020 11:54:53 AM



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1000

800

600

400

200

0

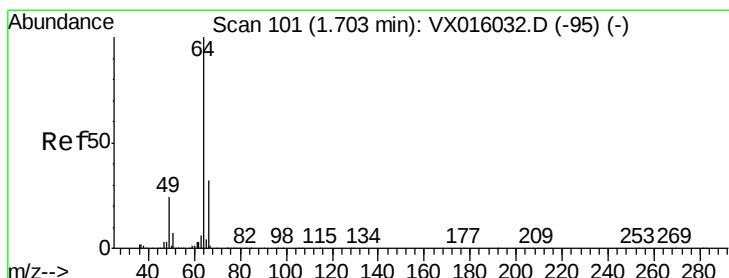
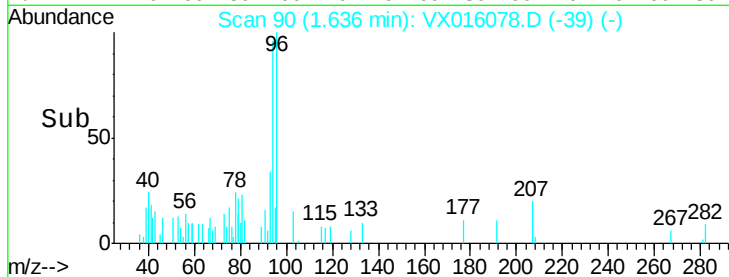
1.60

1.64

1.65

1.70

Time-->



#6

Chloroethane

Concen: 0.452 ug/l

RT: 1.72 min Scan# 103

Delta R.T. 0.01 min

Lab File: VX016078.D

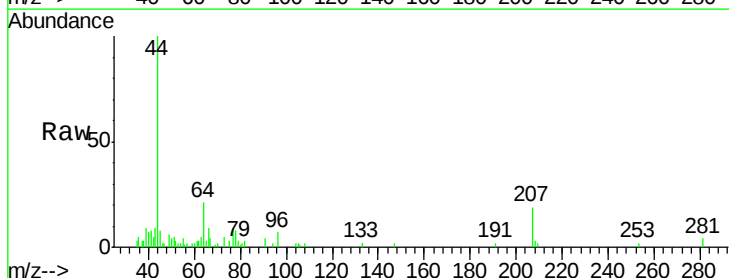
Acq: 06 May 2020 13:05

Tgt Ion: 64 Resp: 1091

Ion Ratio Lower Upper

64 100

66 44.8 25.2 37.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

800

600

400

200

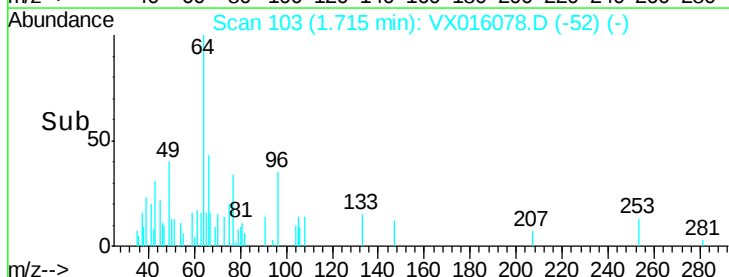
0

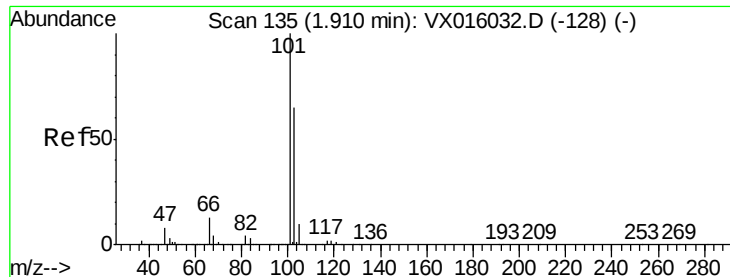
1.70

1.72

1.75

Time-->





#7

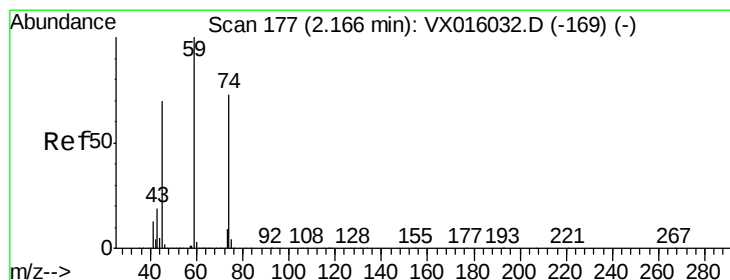
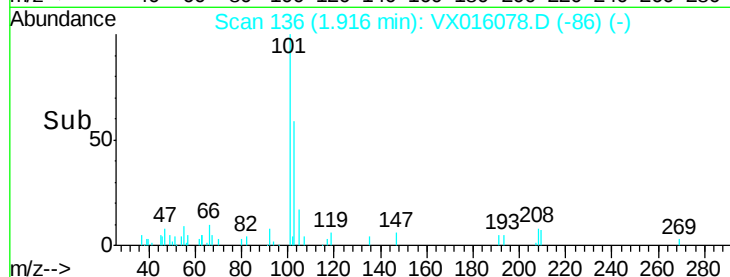
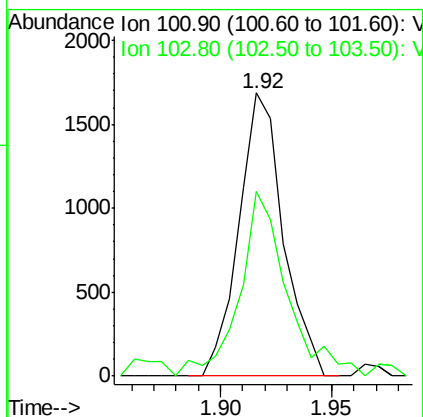
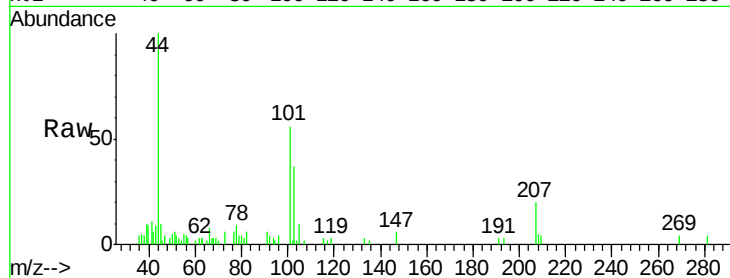
Trichlorofluoromethane
Concen: 0.450 ug/l
RT: 1.92 min Scan# 136
Delta R.T. 0.01 min
Lab File: VX016078.D
Acq: 06 May 2020 13:05

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
101	100		
103	61.1	51.8	77.6

Manual Integrations
APPROVED

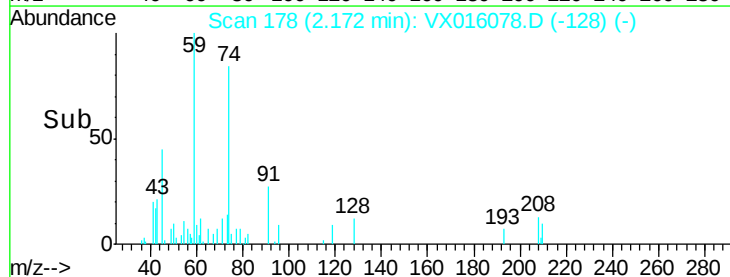
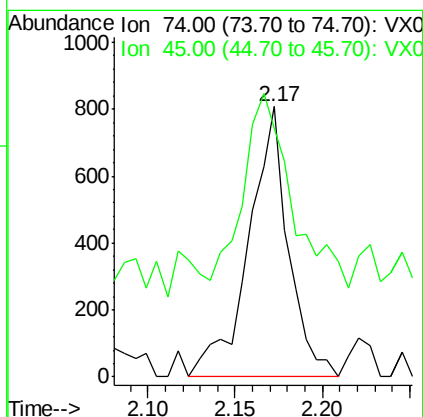
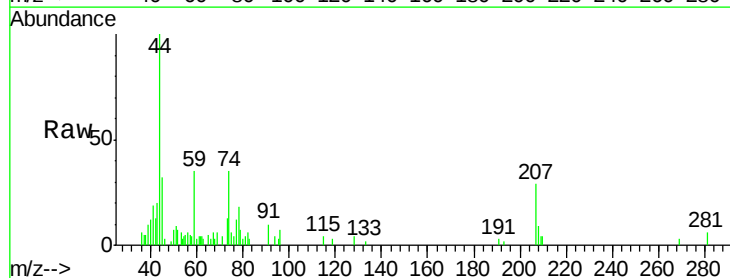
MMDadoda
5/8/2020 11:54:53 AM

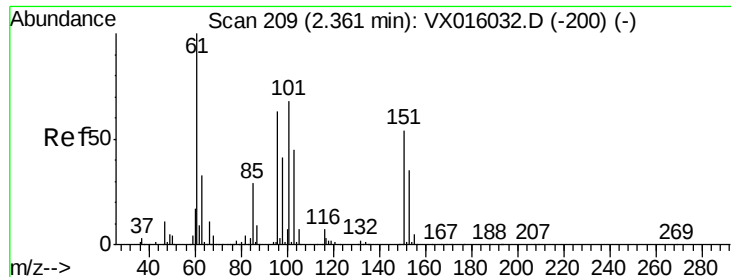


#8

Diethyl Ether
Concen: 0.584 ug/l
RT: 2.17 min Scan# 178
Delta R.T. 0.01 min
Lab File: VX016078.D
Acq: 06 May 2020 13:05

Tgt Ion	Ratio	Lower	Upper
74	100		
45	86.9	47.3	142.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.478 ug/l

RT: 2.37 min Scan# 210

Delta R.T. 0.01 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Instrument :

MSVOA_X

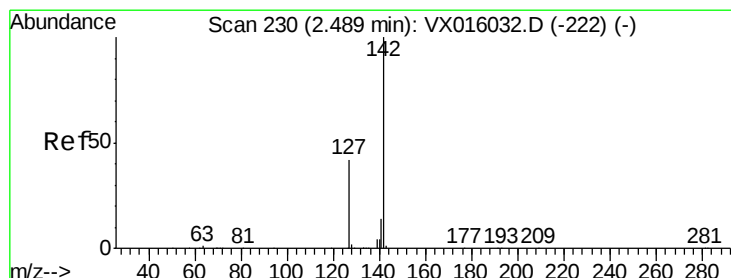
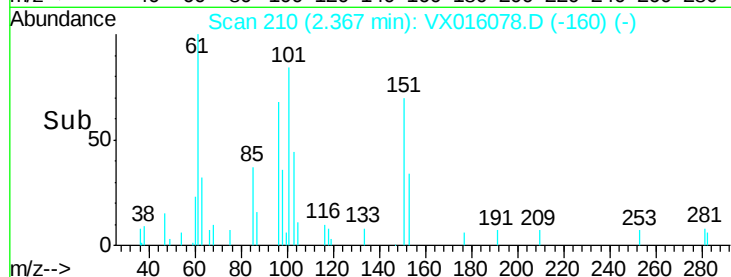
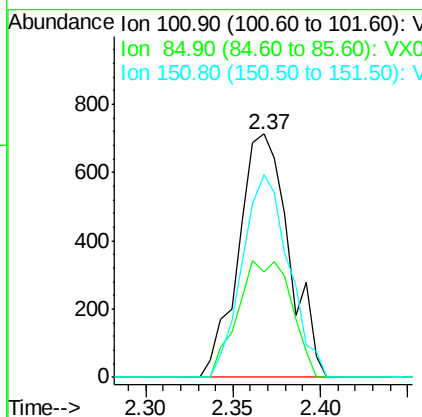
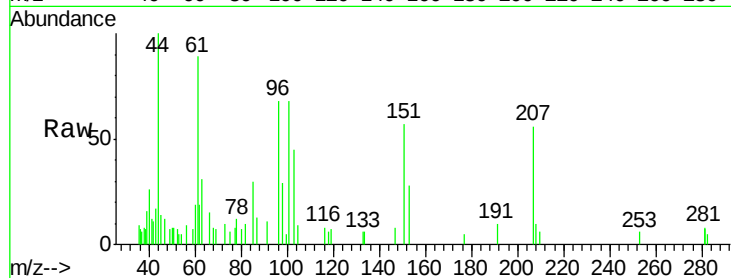
ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion:	101	Resp:	1436
Ion Ratio	Lower	Upper	
101	100		
85	50.6	34.2	51.4
151	76.8	62.1	93.1

Manual Integrations
APPROVED

MMDadoda
5/8/2020 11:54:53 AM



#10

Methyl Iodide

Concen: 0.388 ug/l

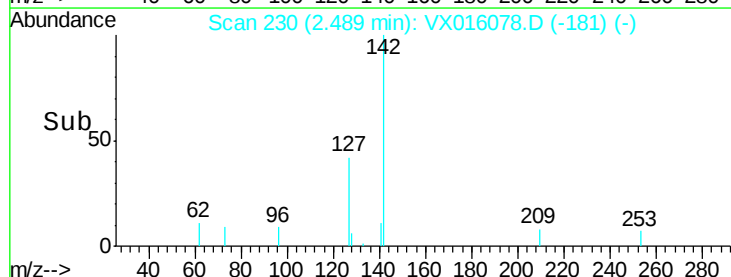
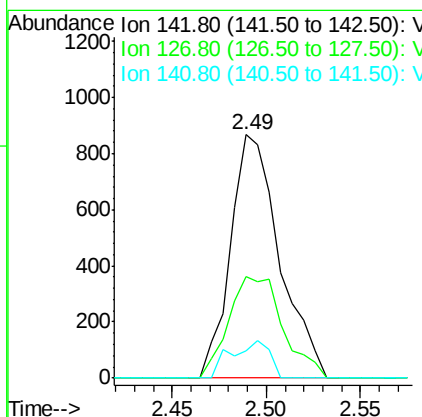
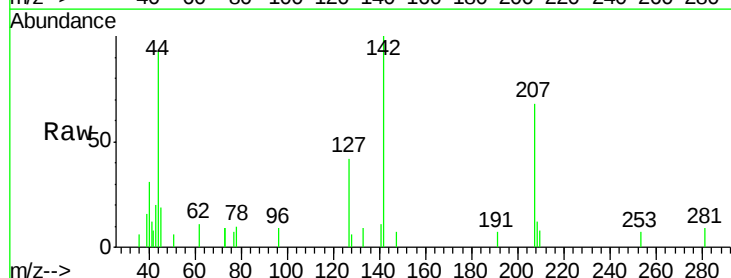
RT: 2.49 min Scan# 230

Delta R.T. -0.00 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Tgt Ion:	142	Resp:	1564
Ion Ratio	Lower	Upper	
142	100		
127	46.2	34.6	52.0
141	12.0	11.3	16.9





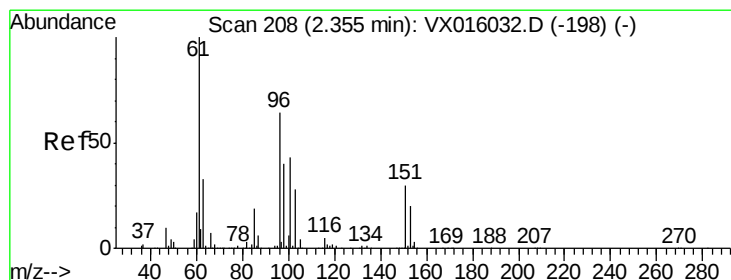
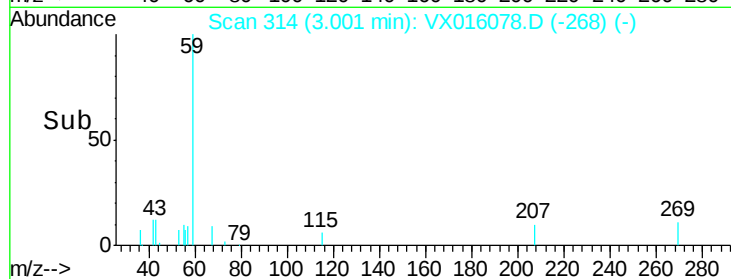
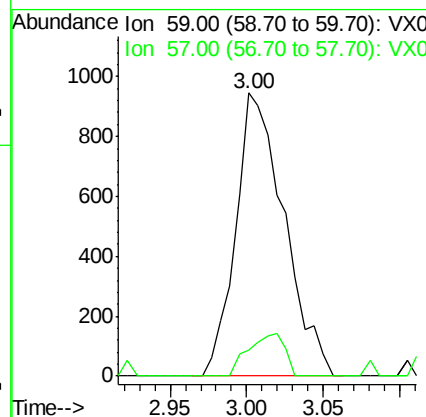
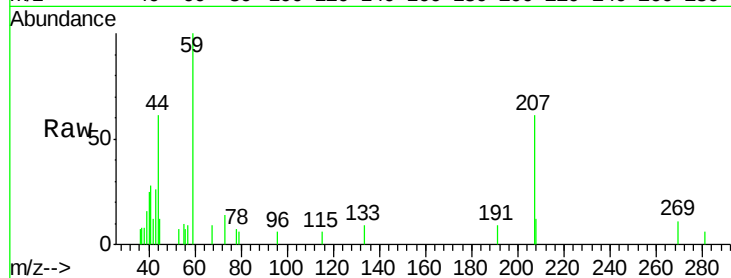
#11
Tert butyl alcohol
Concen: 2.070 ug/l
RT: 3.00 min Scan# 314
Delta R.T. -0.02 min
Lab File: VX016078.D
Acq: 06 May 2020 13:05

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion: 59 Resp: 2082
Ion Ratio Lower Upper
59 100
57 11.3 8.2 12.4

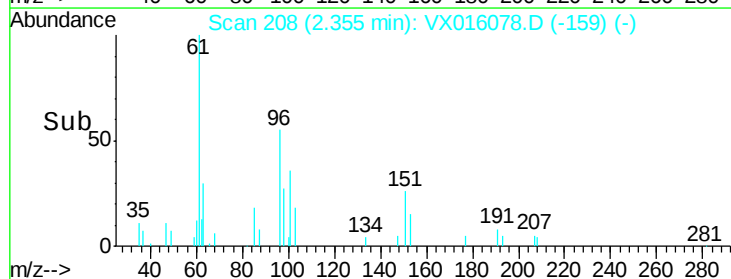
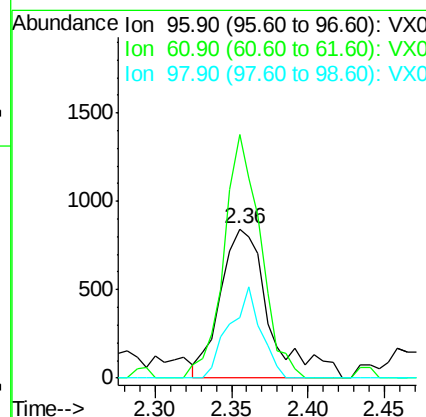
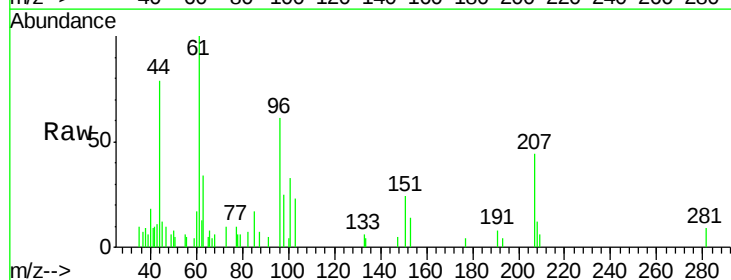
Manual Integrations
APPROVED

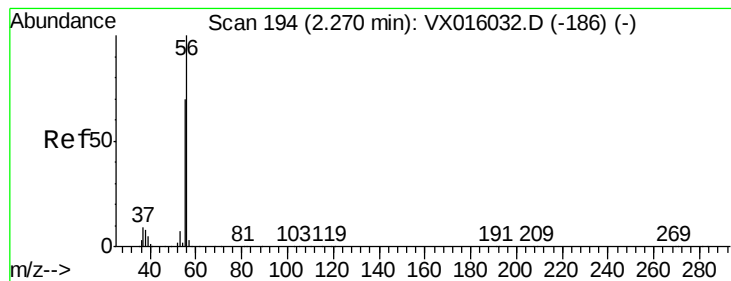
MMDadoda
5/8/2020 11:54:53 AM



#12
1,1-Dichloroethene
Concen: 0.591 ug/l
RT: 2.36 min Scan# 208
Delta R.T. -0.00 min
Lab File: VX016078.D
Acq: 06 May 2020 13:05

Tgt Ion: 96 Resp: 1858
Ion Ratio Lower Upper
96 100
61 163.2 124.8 187.2
98 40.9 49.7 74.5#





#13

Acrolein

Concen: 2.994 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion: 56 Resp: 1885

Ion Ratio Lower Upper

56 100

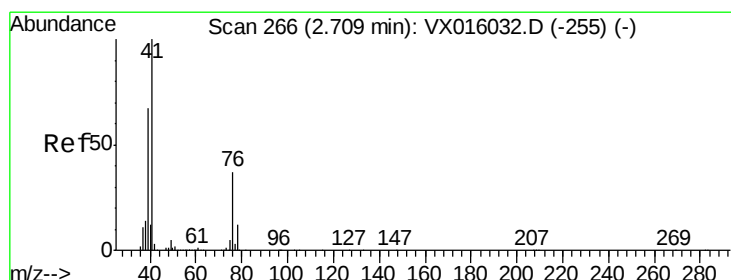
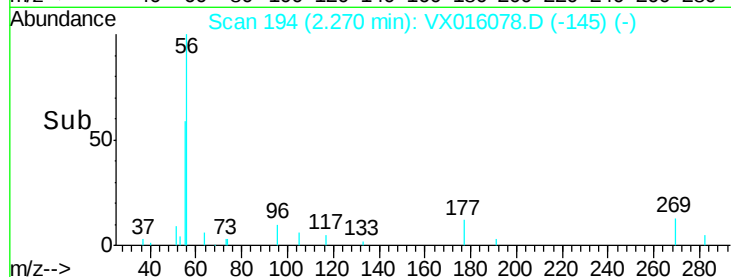
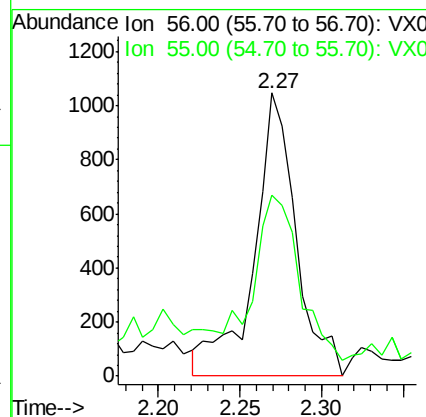
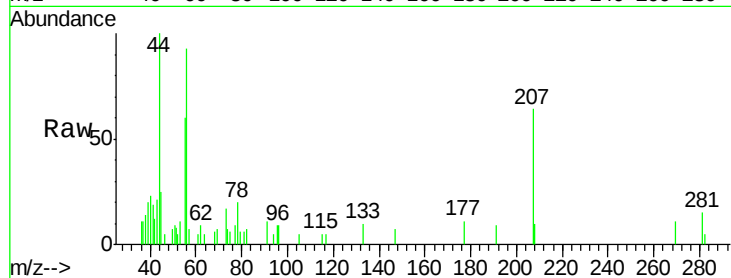
55 62.3 56.5 84.7

Manual Integrations

APPROVED

MMDadoda

5/8/2020 11:54:53 AM



#14

Allyl chloride

Concen: 0.392 ug/l

RT: 2.71 min Scan# 266

Delta R.T. -0.00 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

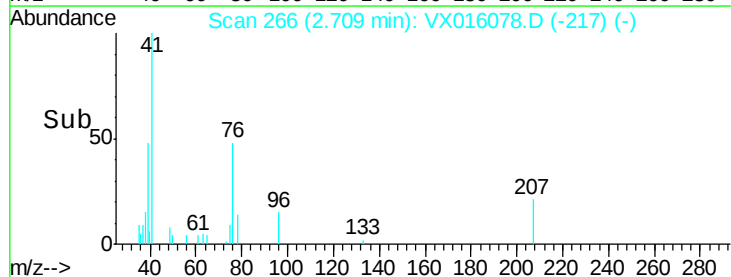
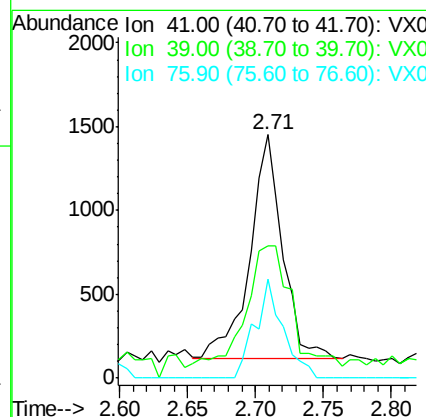
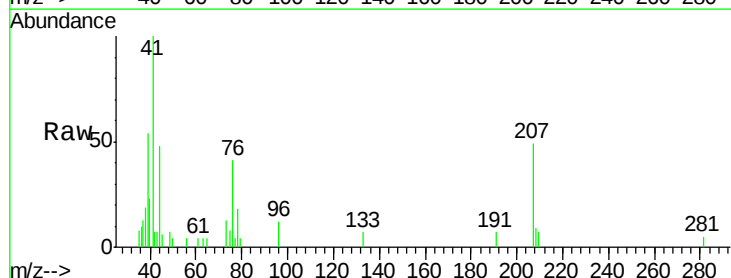
Tgt Ion: 41 Resp: 2256

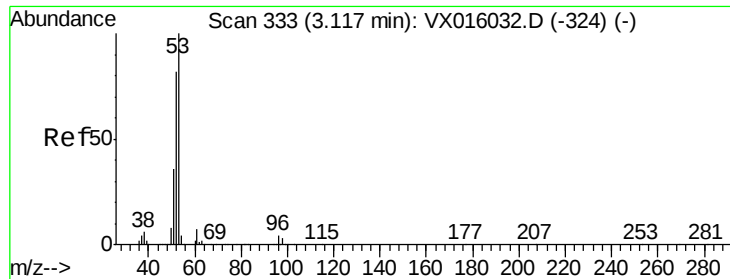
Ion Ratio Lower Upper

41 100

39 78.1 50.5 75.7#

76 37.5 26.6 40.0





#15

Acrylonitrile

Concen: 2.193 ug/l

RT: 3.12 min Scan# 333

Delta R.T. -0.00 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Instrument :

MSVOA_X

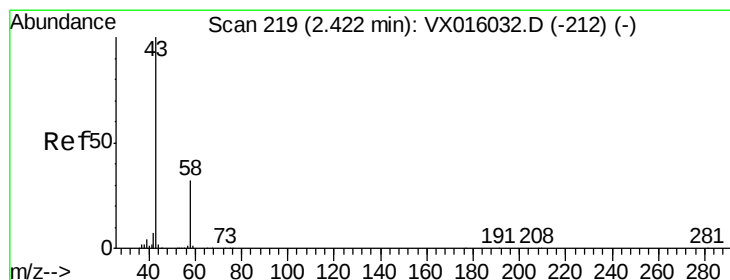
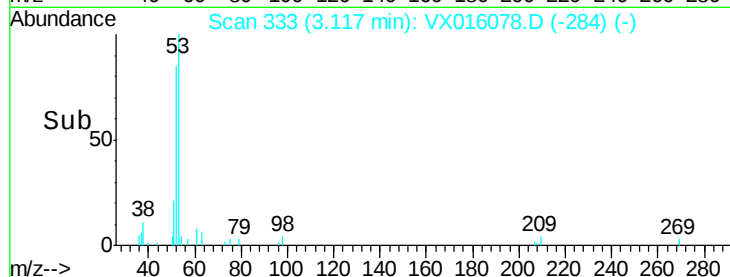
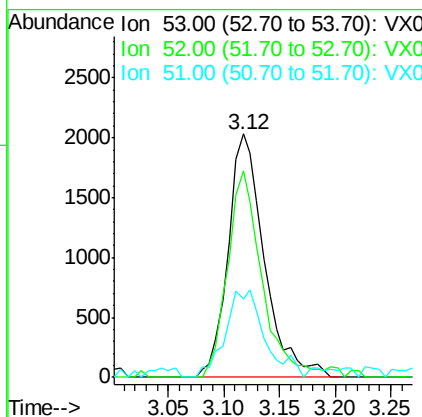
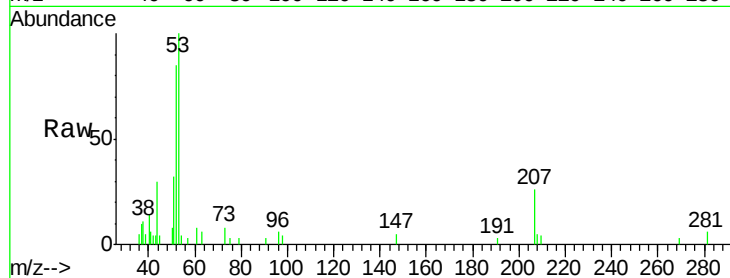
ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion:	53	Resp:	4577
Ion	Ratio	Lower	Upper
53	100		
52	80.5	66.1	99.1
51	39.1	28.8	43.2

Manual Integrations
APPROVED

MMDadoda
5/8/2020 11:54:53 AM



#16

Acetone

Concen: 2.372 ug/l

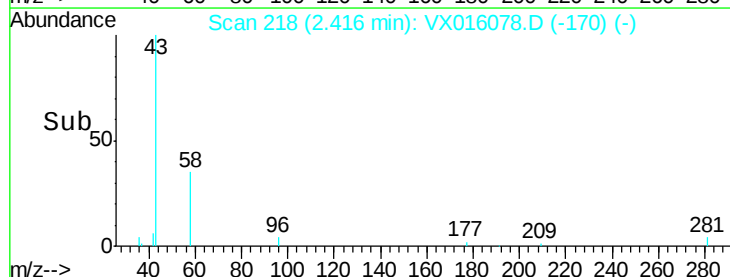
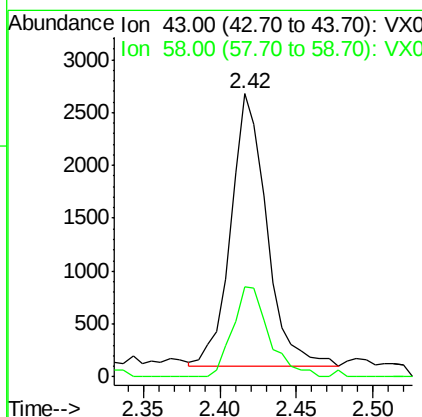
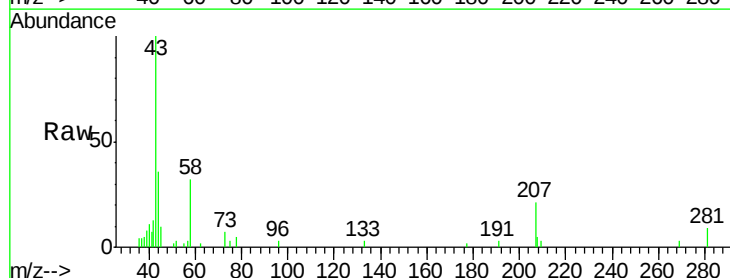
RT: 2.42 min Scan# 218

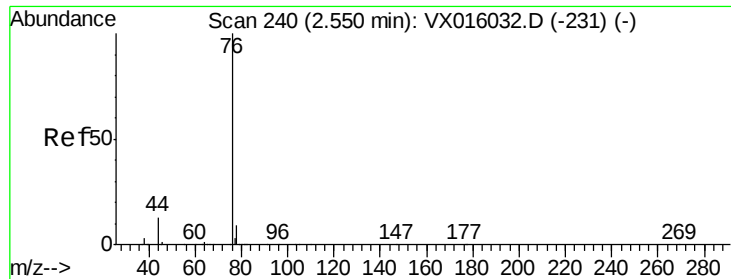
Delta R.T. -0.01 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Tgt Ion:	43	Resp:	4211
Ion	Ratio	Lower	Upper
43	100		
58	33.1	25.4	38.0





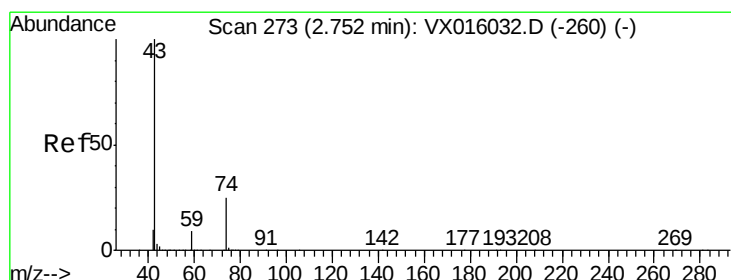
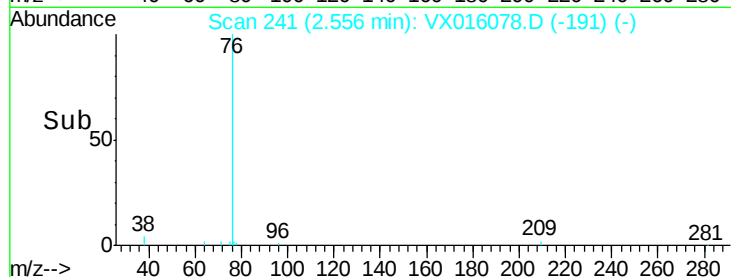
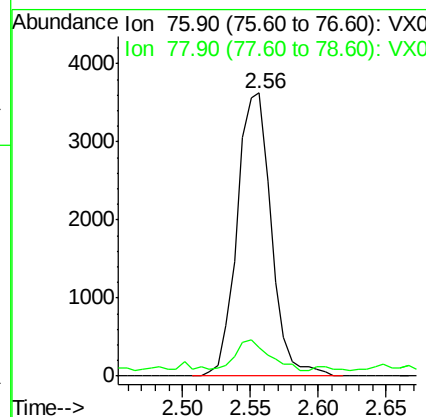
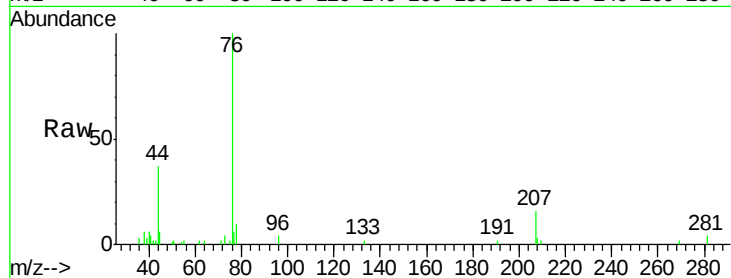
#17
Carbon Disulfide
Concen: 0.592 ug/l
RT: 2.56 min Scan# 241
Delta R.T. 0.01 min
Lab File: VX016078.D
Acq: 06 May 2020 13:05

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
76	100		
78	7.9	7.5	11.3

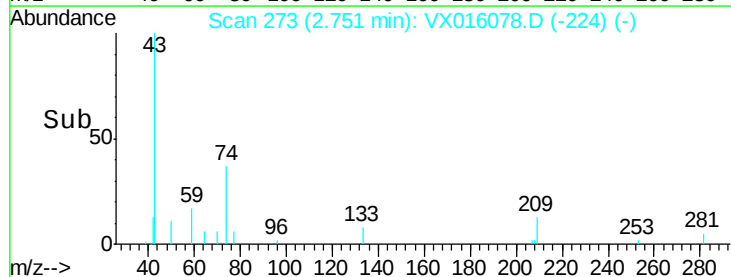
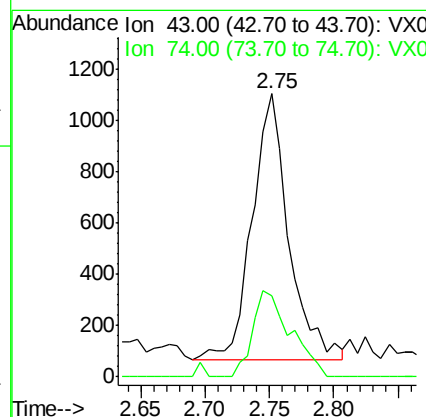
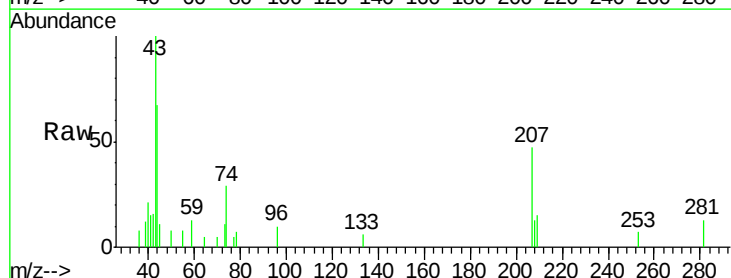
Manual Integrations
APPROVED

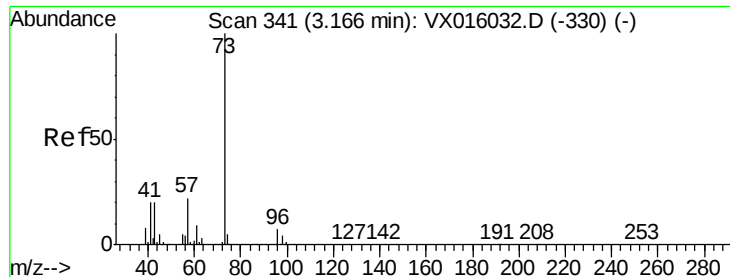
MMDadoda
5/8/2020 11:54:53 AM



#18
Methyl Acetate
Concen: 0.465 ug/l
RT: 2.75 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX016078.D
Acq: 06 May 2020 13:05

Tgt Ion	Ratio	Lower	Upper
43	100		
74	33.8	20.2	30.2





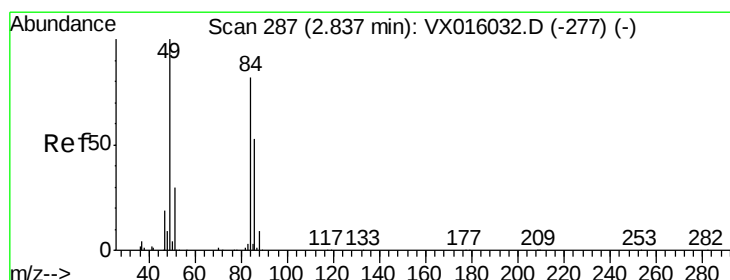
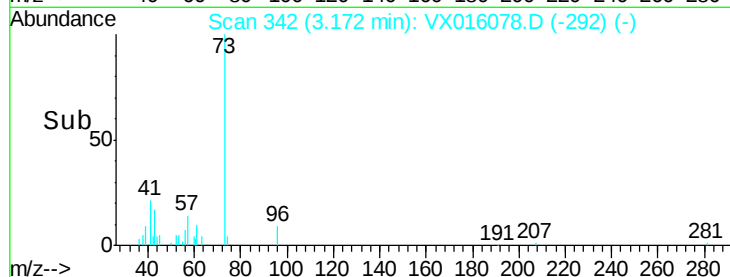
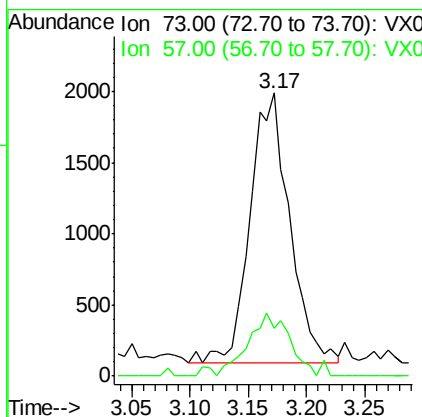
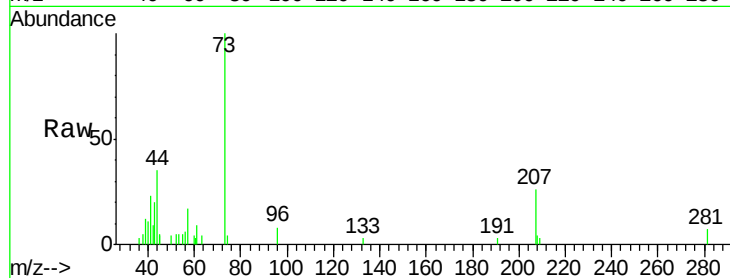
#19
Methvl tert-butvl Ether
Concen: 0.415 ug/l
RT: 3.17 min Scan# 342
Delta R.T. 0.01 min
Lab File: VX016078.D
Acq: 06 May 2020 13:05

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
73	100		
57	17.6	17.8	26.6#

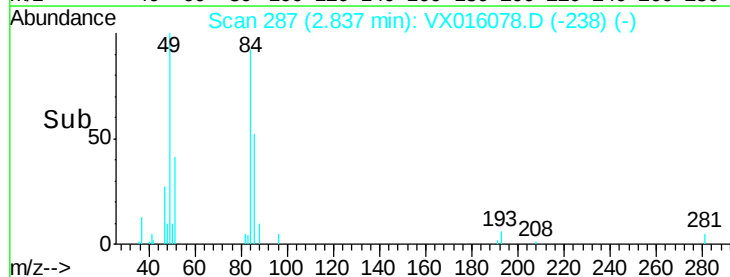
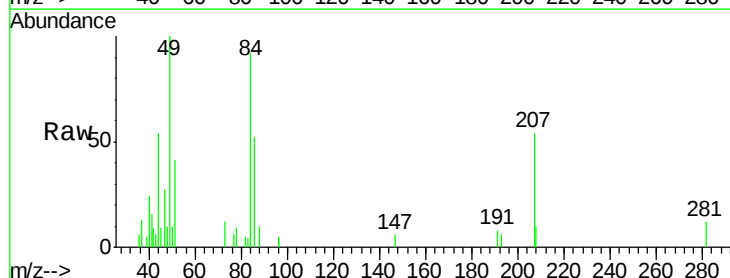
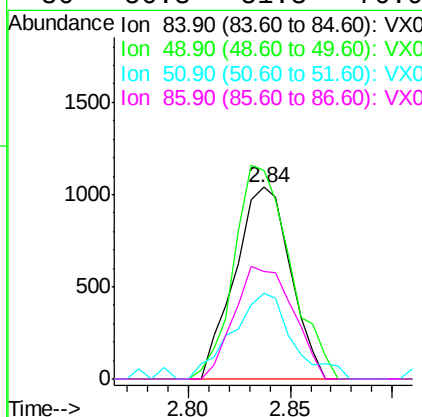
Manual Integrations
APPROVED

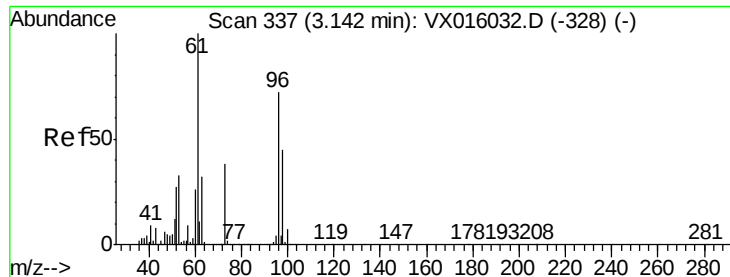
MMDadoda
5/8/2020 11:54:53 AM



#20
Methylene Chloride
Concen: 0.537 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX016078.D
Acq: 06 May 2020 13:05

Tgt Ion	Ratio	Lower	Upper
84	100		
49	108.7	97.3	145.9
51	44.5	29.3	43.9#
86	56.3	51.3	76.9





#21

trans-1,2-Dichloroethene

Concen: 0.513 ug/l

RT: 3.14 min Scan# 337

Delta R.T. -0.00 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Instrument :

MSVOA_X

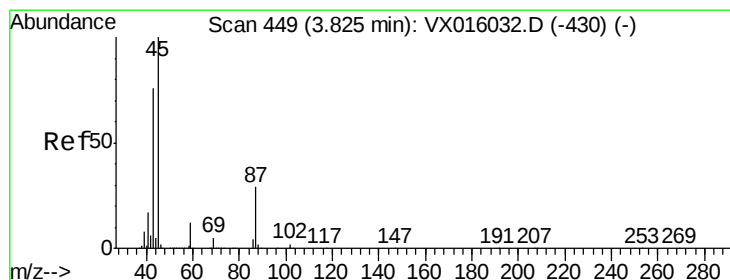
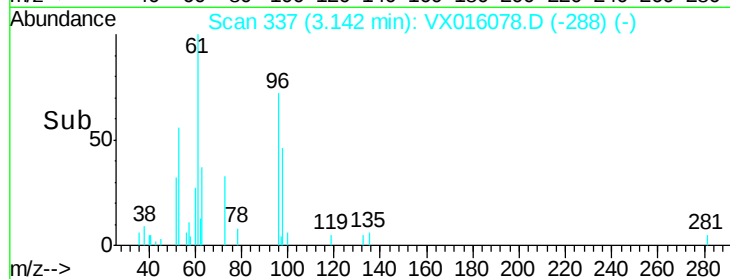
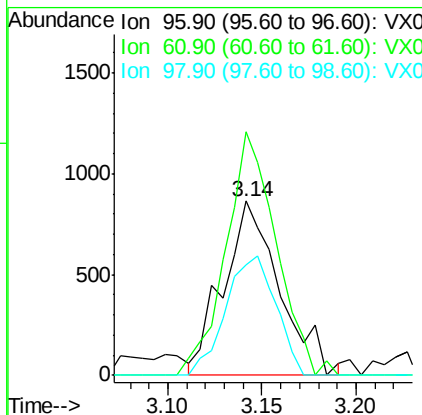
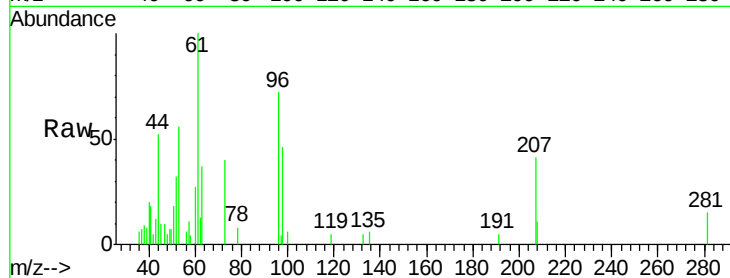
ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion:	96	Resp:	1797
Ion	Ratio	Lower	Upper
96	100		
61	150.2	111.2	166.8
98	68.4	50.2	75.4

Manual Integrations
APPROVED

MMDadoda
5/8/2020 11:54:53 AM



#22

Diisopropyl ether

Concen: 0.409 ug/l

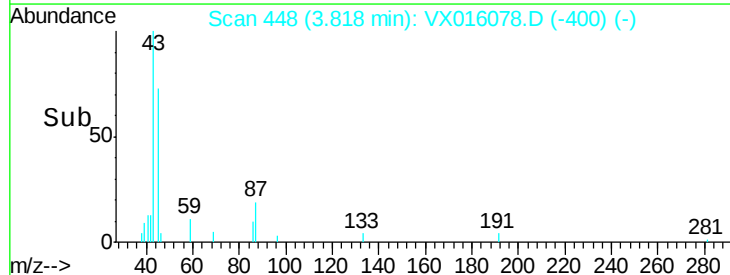
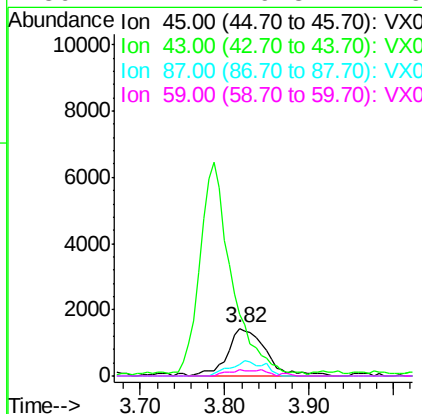
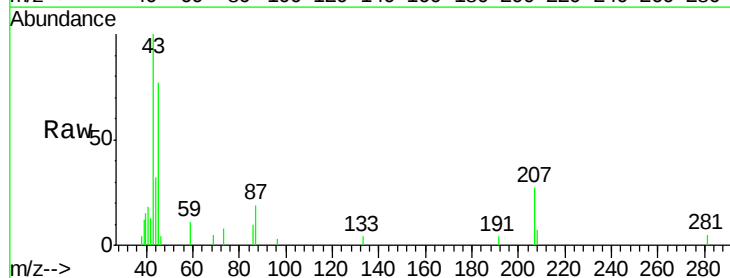
RT: 3.82 min Scan# 448

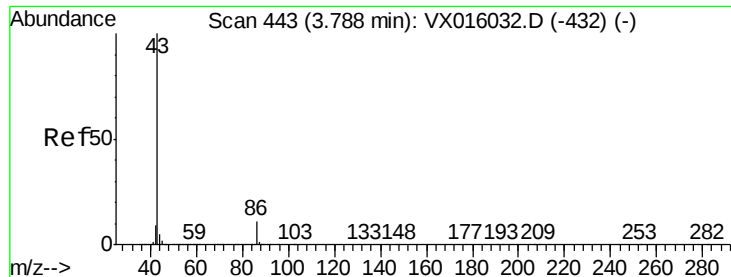
Delta R.T. -0.01 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Tgt Ion:	45	Resp:	4447
Ion	Ratio	Lower	Upper
45	100		
43	119.8	61.1	91.7#
87	24.5	23.0	34.6
59	14.4	9.8	14.6





#23

Vinyl Acetate

Concen: 1.740 ug/l

RT: 3.79 min Scan# 443

Delta R.T. -0.00 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Instrument :

MSVOA_X

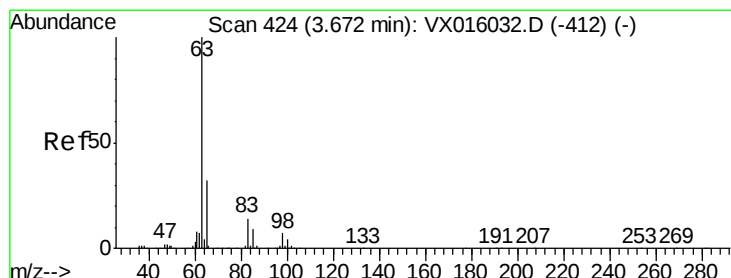
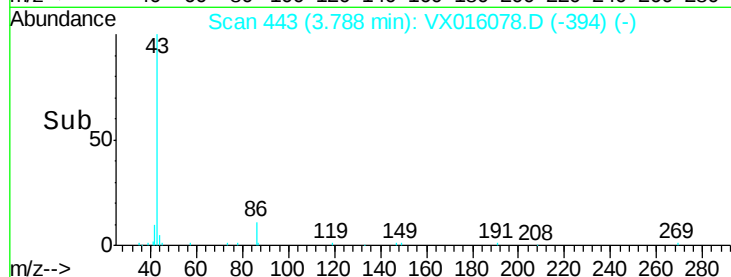
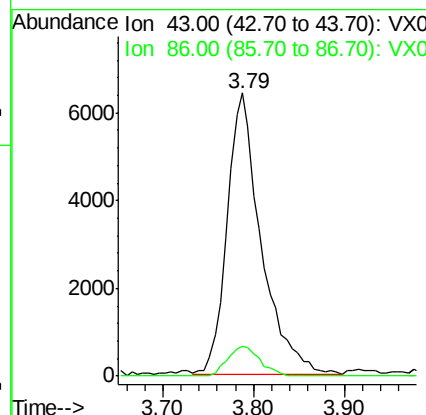
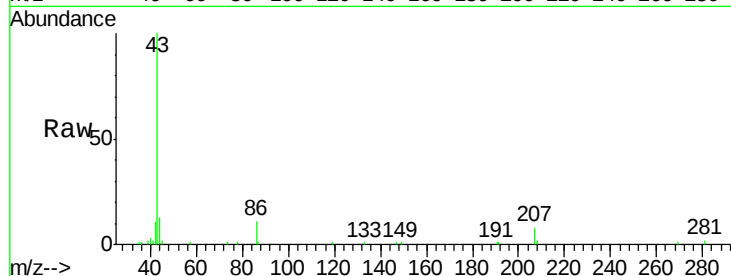
ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion:	43	Resp:	16637
Ion Ratio	Lower	Upper	
43	100		
86	10.8	9.0	13.4

Manual Integrations
APPROVED

MMDadoda
5/8/2020 11:54:53 AM



#24

1,1-Dichloroethane

Concen: 0.408 ug/l

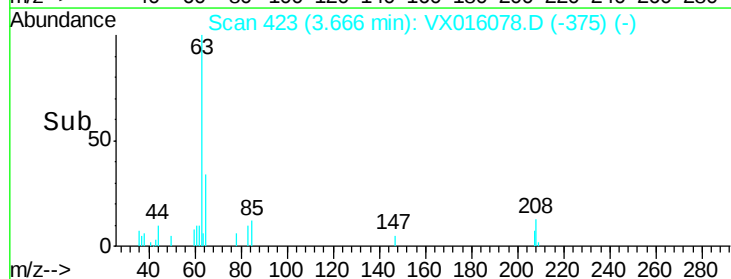
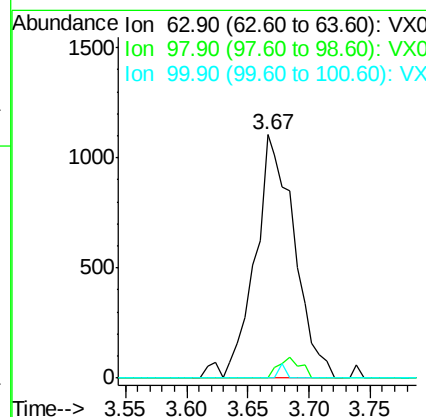
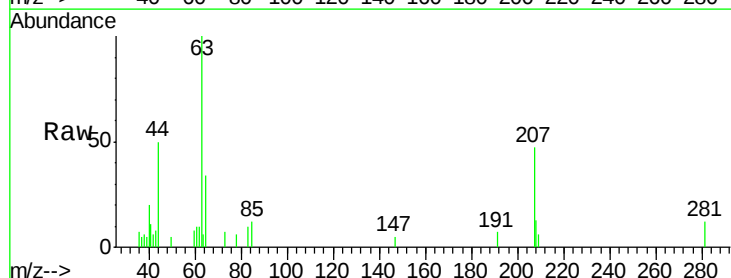
RT: 3.67 min Scan# 423

Delta R.T. -0.01 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Tgt Ion:	63	Resp:	2483
Ion Ratio	Lower	Upper	
63	100		
98	0.0	3.5	10.5#
100	0.0	2.1	6.5#





#25

2-Butanone

Concen: 2.099 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Instrument :

MSVOA_X

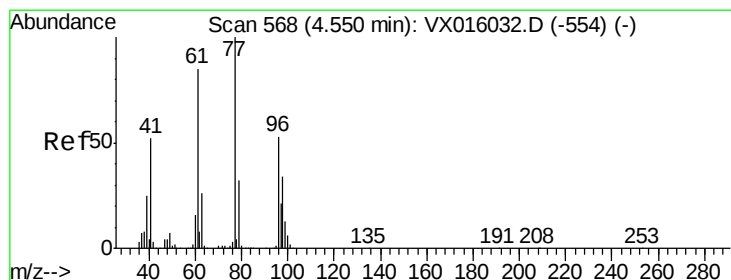
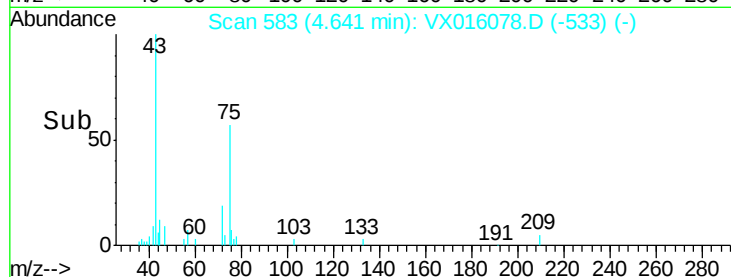
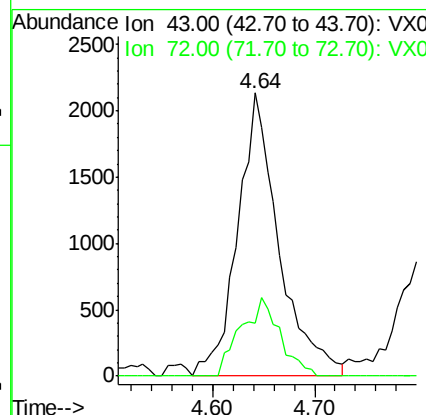
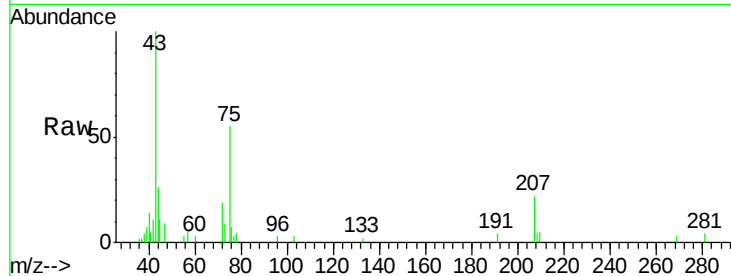
ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
43	100		
72	18.7	21.8	32.8#

Manual Integrations
APPROVED

MMDadoda
5/8/2020 11:54:53 AM



#26

2,2-Dichloropropane

Concen: 0.412 ug/l

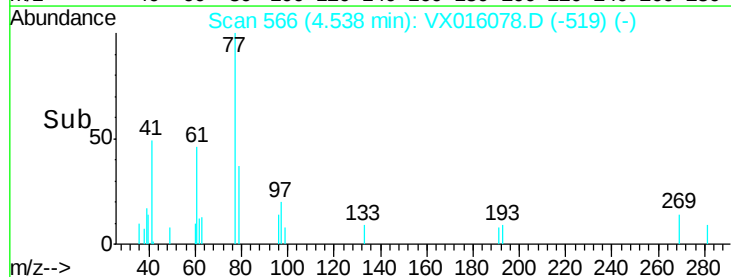
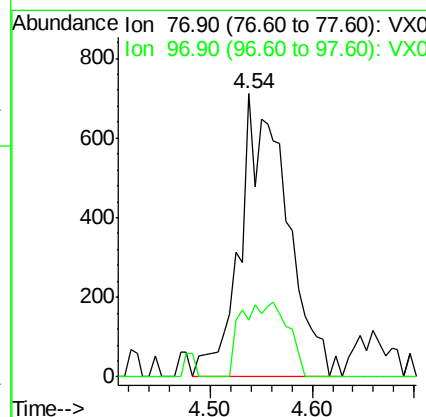
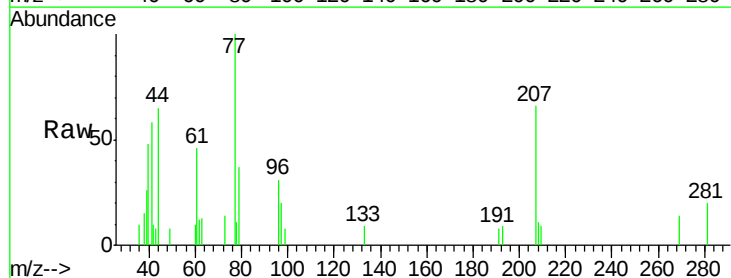
RT: 4.54 min Scan# 566

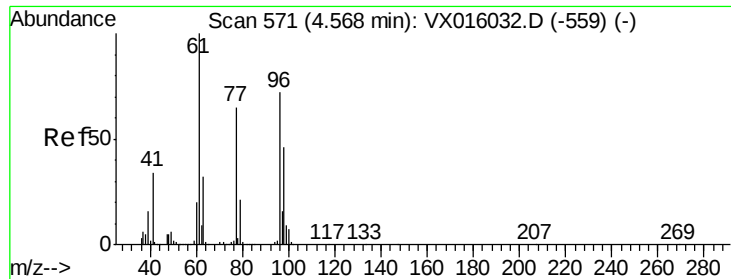
Delta R.T. -0.01 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Tgt Ion	Ratio	Lower	Upper
77	100		
97	0.0	11.2	33.6#





#27

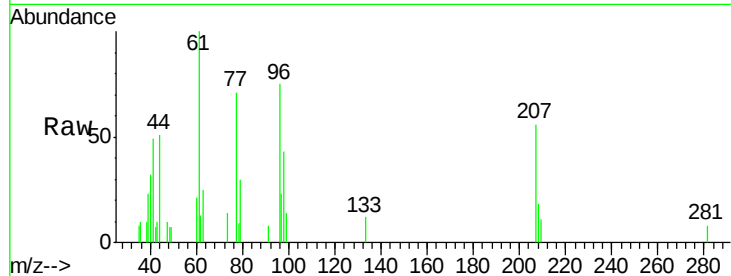
cis-1,2-Dichloroethene
Concen: 0.606 ug/l
RT: 4.56 min Scan# 570
Delta R.T. -0.01 min
Lab File: VX016078.D
Acq: 06 May 2020 13:05

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
96	100		
61	102.8	0.0	296.2
98	44.6	0.0	129.4

Manual Integrations
APPROVED

MMDadoda
5/8/2020 11:54:53 AM

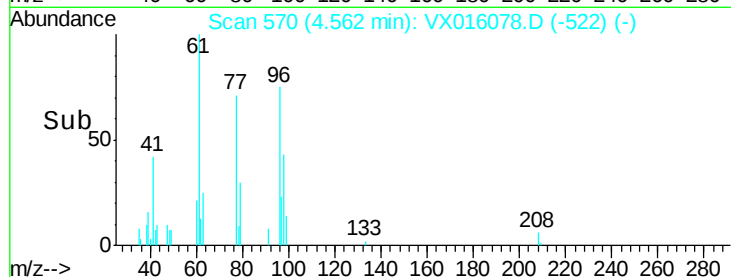
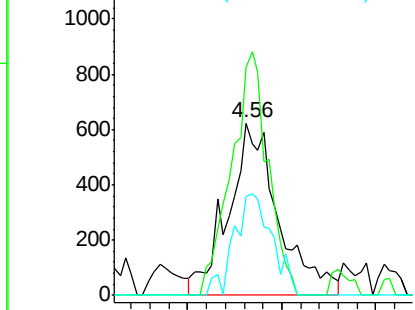


Abundance

Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

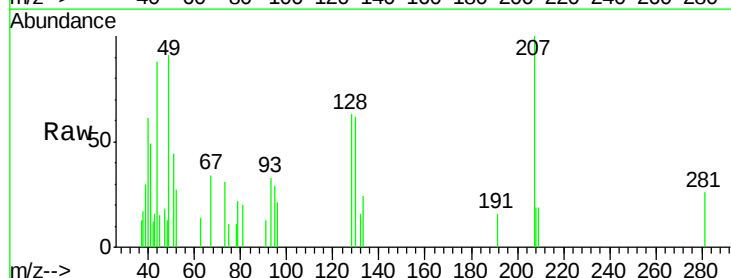
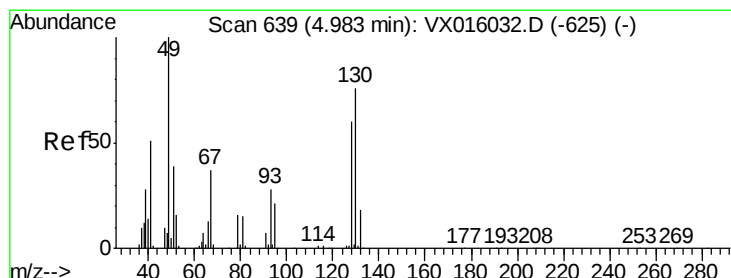
Ion 97.90 (97.60 to 98.60): VX0



#28

Bromochloromethane
Concen: 0.517 ug/l
RT: 4.99 min Scan# 640
Delta R.T. 0.01 min
Lab File: VX016078.D
Acq: 06 May 2020 13:05

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.0
130	66.2	62.4	93.6

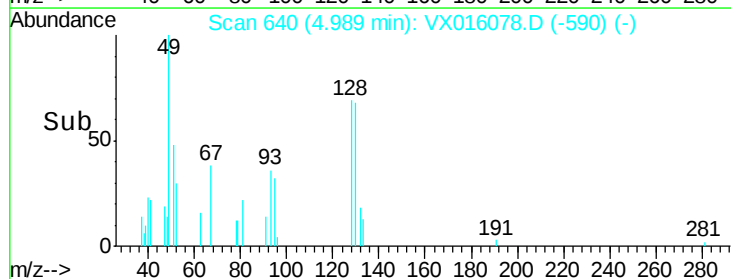
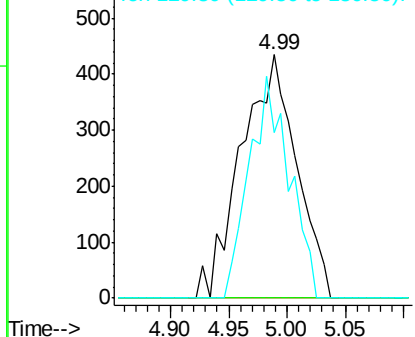


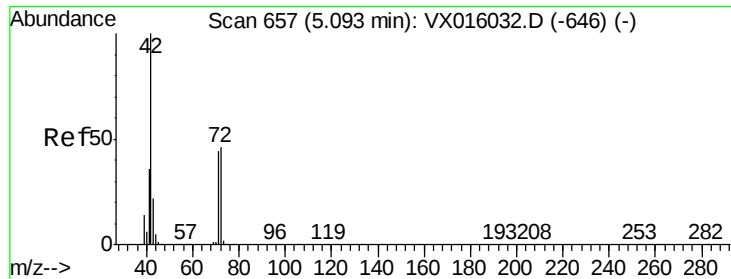
Abundance

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





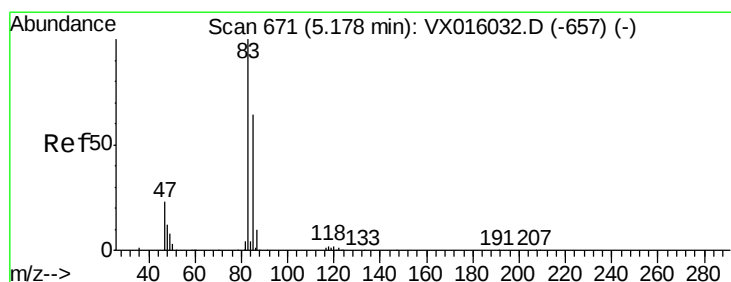
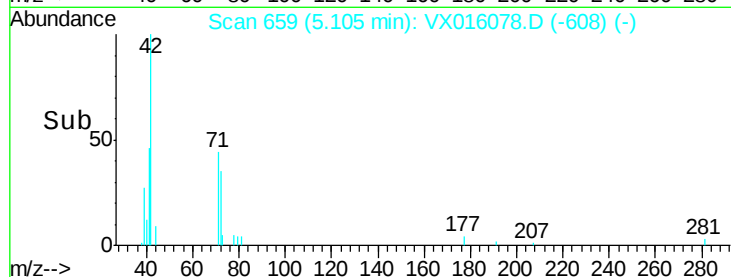
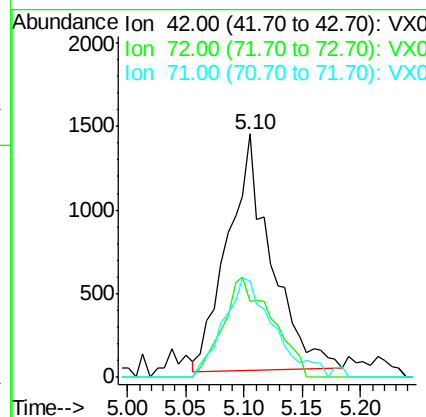
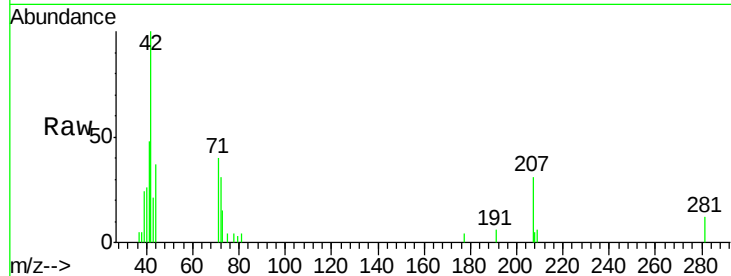
#29
Tetrahydrofuran
Concen: 1.917 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.01 min
Lab File: VX016078.D
Acq: 06 May 2020 13:05

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
42	100		
72	47.9	37.1	55.7
71	48.8	34.5	51.7

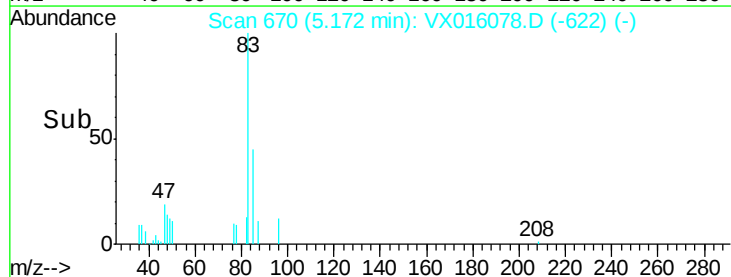
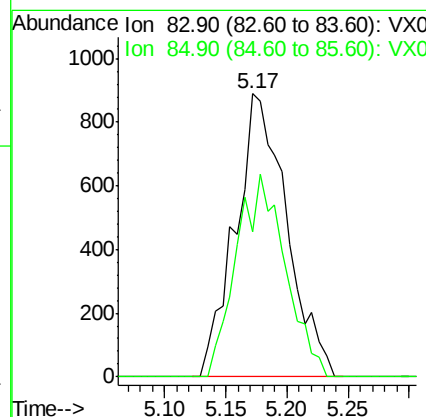
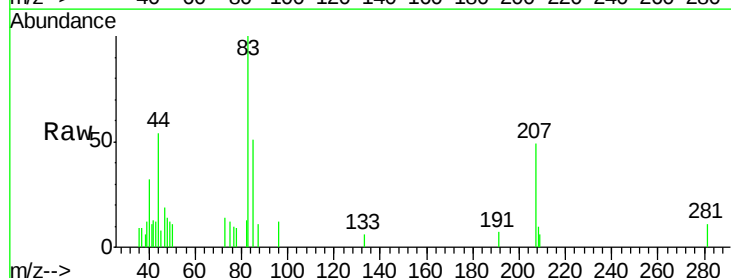
Manual Integrations
APPROVED

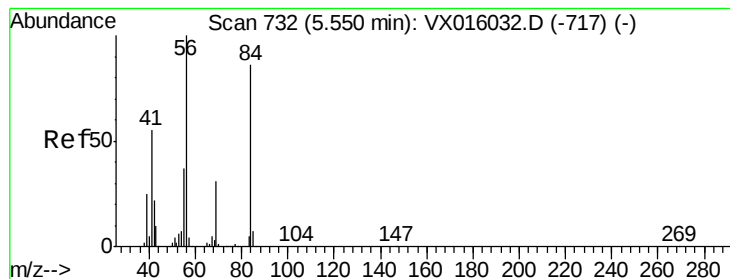
MMDadoda
5/8/2020 11:54:53 AM



#30
Chloroform
Concen: 0.428 ug/l
RT: 5.17 min Scan# 670
Delta R.T. -0.01 min
Lab File: VX016078.D
Acq: 06 May 2020 13:05

Tgt Ion	Ratio	Lower	Upper
83	100		
85	51.2	51.6	77.4#





#31

Cyclohexane

Concen: 0.401 ug/l

RT: 5.56 min Scan# 734

Delta R.T. 0.01 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Instrument :

MSVOA_X

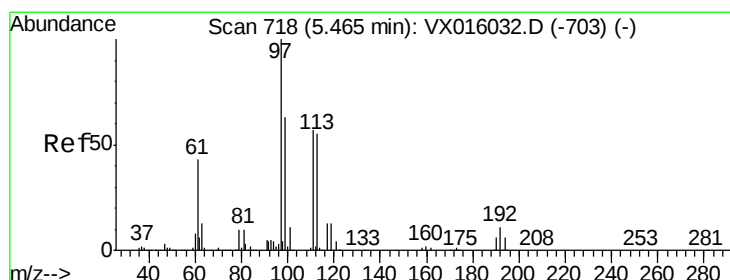
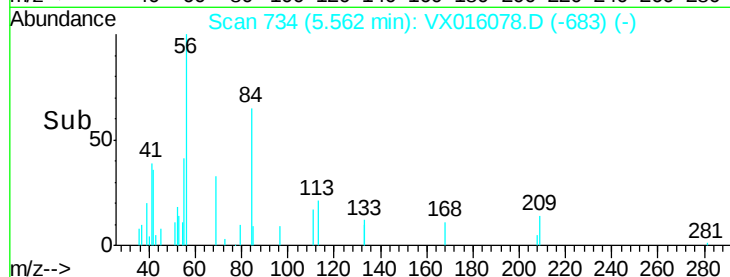
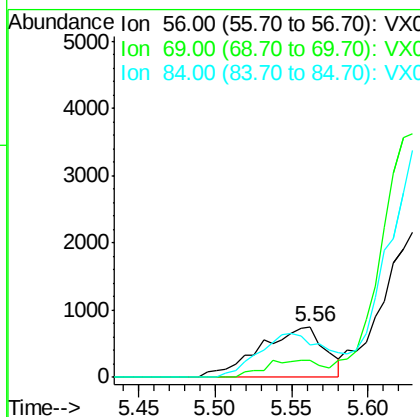
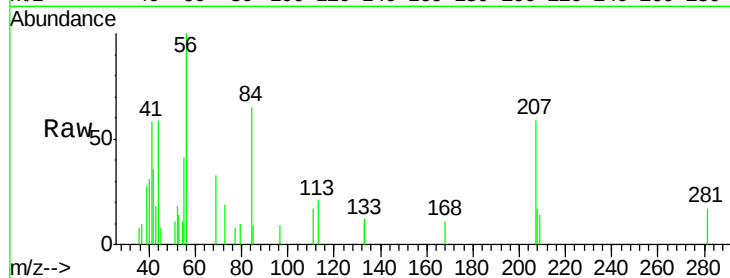
ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion:	56	Resp:	2214
Ion	Ratio	Lower	Upper
56	100		
69	32.5	25.0	37.6
84	65.2	69.0	103.6#

Manual Integrations
APPROVED

MMDadoda
5/8/2020 11:54:53 AM



#32

1,1,1-Trichloroethane

Concen: 0.432 ug/l

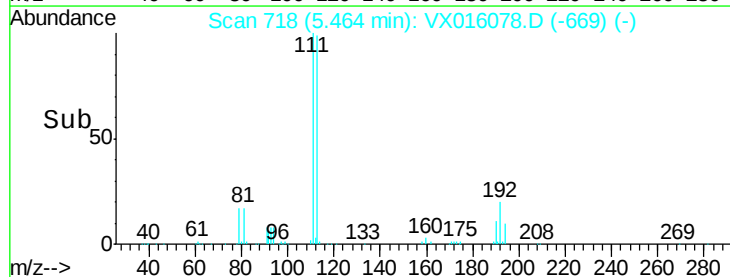
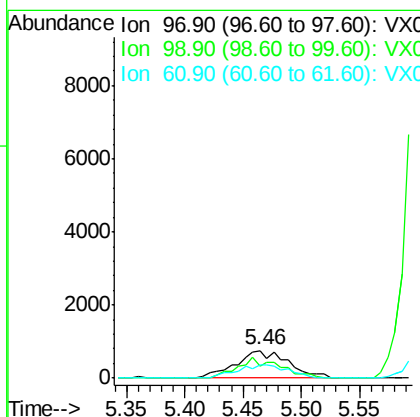
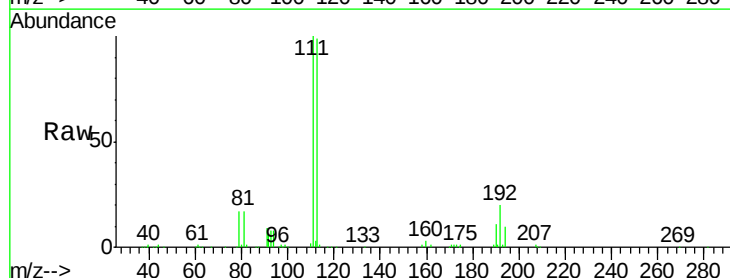
RT: 5.46 min Scan# 718

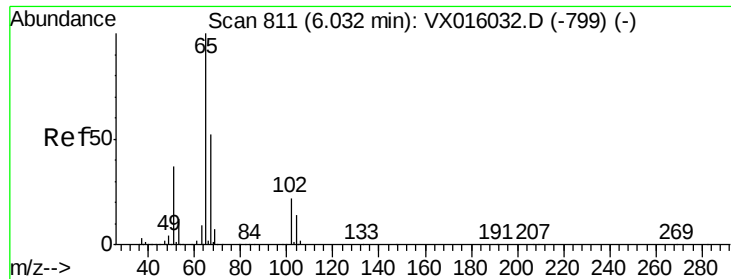
Delta R.T. -0.00 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Tgt Ion:	97	Resp:	2379
Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.0	76.4#
61	45.6	34.5	51.7





#33

1,2-Dichloroethane-d4

Concen: 48.902 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Instrument :

MSVOA_X

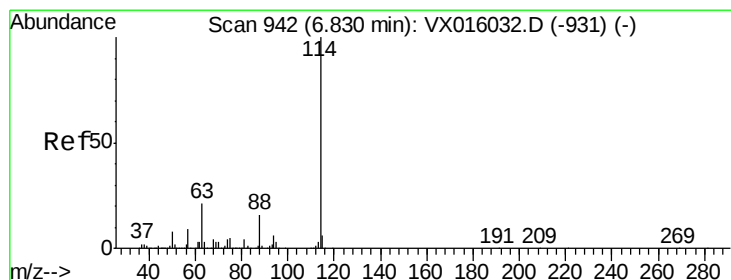
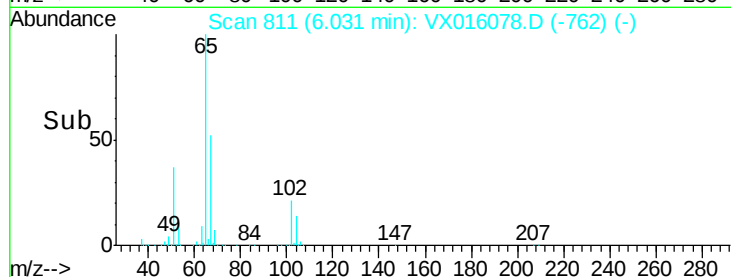
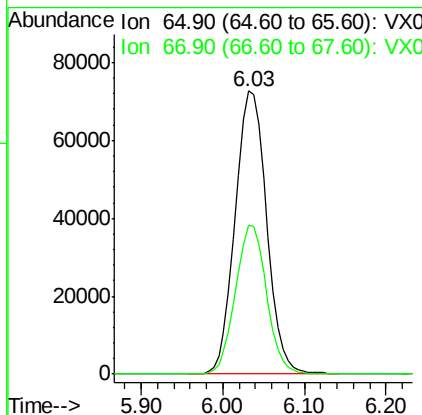
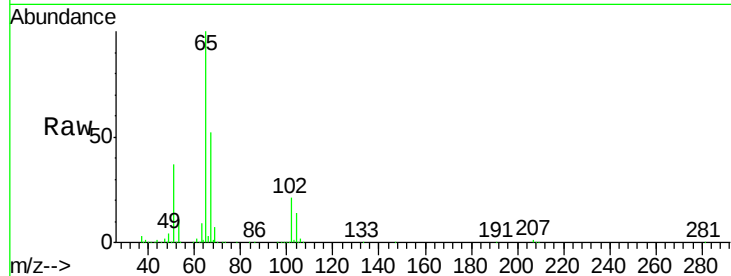
ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Resp	Lower	Upper
65	100	194542		
67	52.0	0.0	104.8	

Manual Integrations
APPROVED

MMDadoda
5/8/2020 11:54:53 AM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

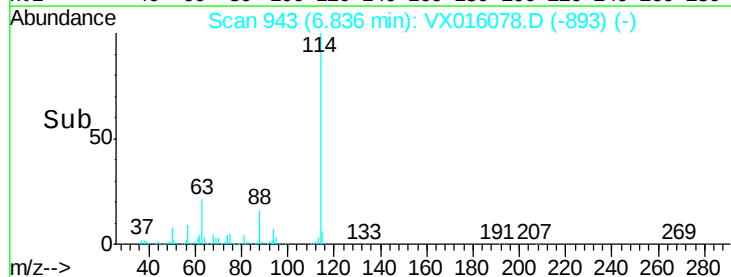
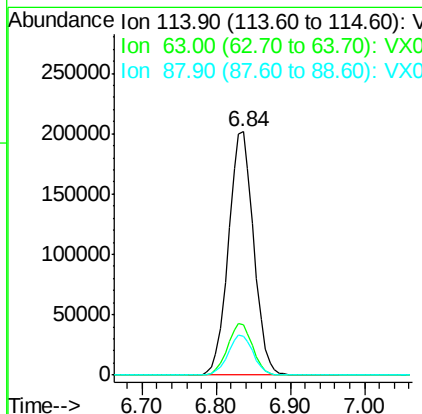
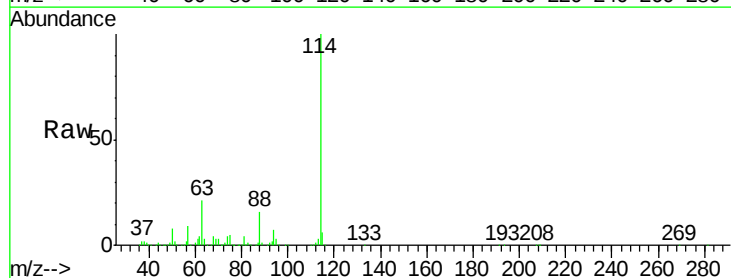
RT: 6.84 min Scan# 943

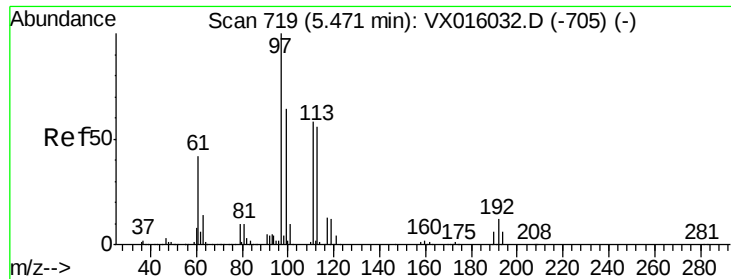
Delta R.T. 0.01 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	476750		
63	20.8	0.0	42.8	
88	16.1	0.0	31.4	





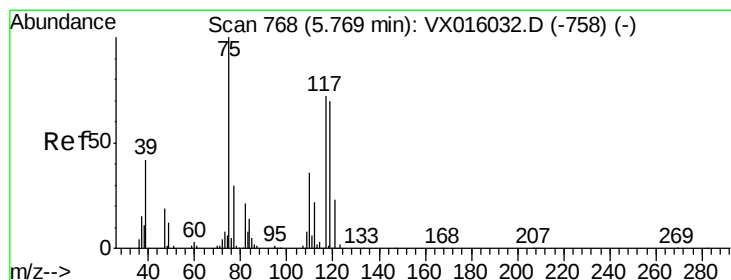
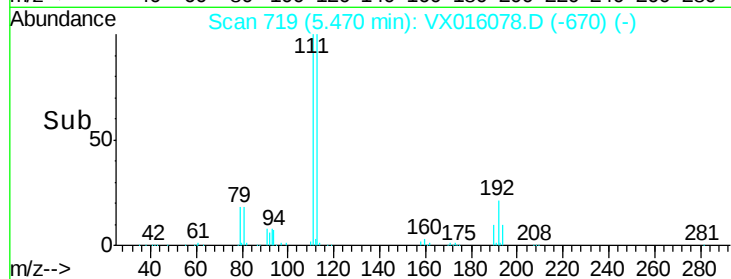
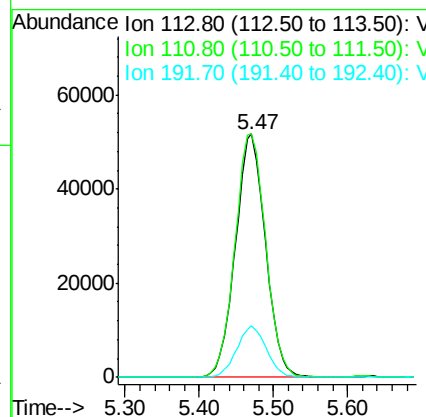
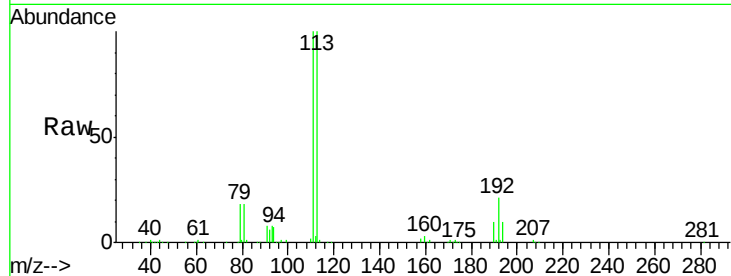
#35
 Dibromofluoromethane
 Concen: 48.441 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. -0.00 min
 Lab File: VX016078.D
 Acq: 06 May 2020 13:05

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Resp	Lower	Upper
113	100	146313		
111	102.4	81.6	122.4	
192	21.0	17.0	25.4	

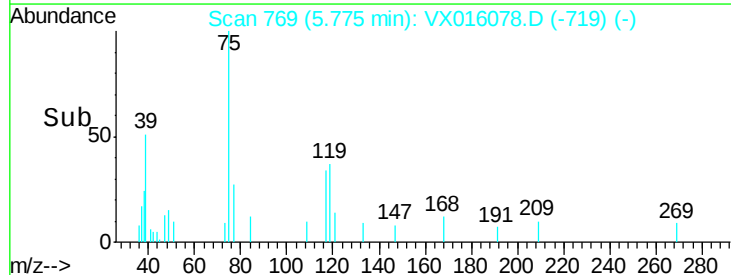
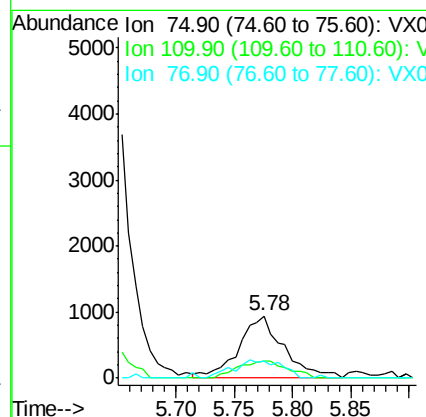
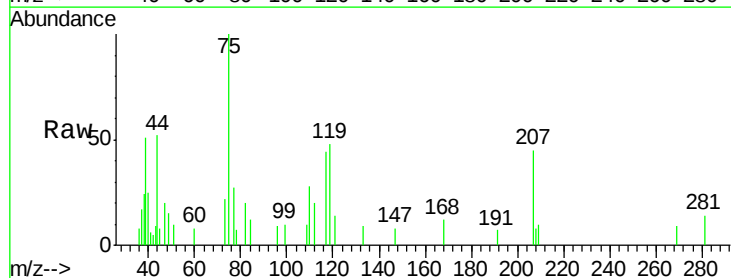
Manual Integrations
 APPROVED

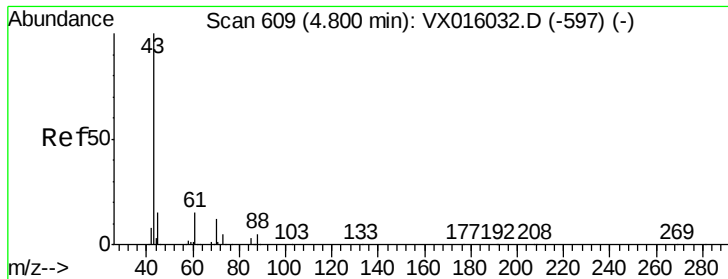
MMDadoda
 5/8/2020 11:54:53 AM



#36
 1,1-Dichloropropene
 Concen: 0.537 ug/l
 RT: 5.78 min Scan# 769
 Delta R.T. 0.01 min
 Lab File: VX016078.D
 Acq: 06 May 2020 13:05

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	2522		
110	30.4	18.1	54.1	
77	31.0	25.0	37.6	





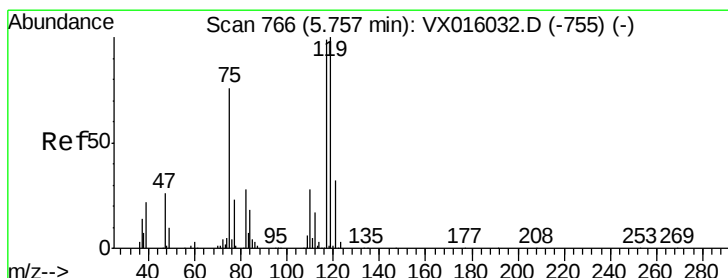
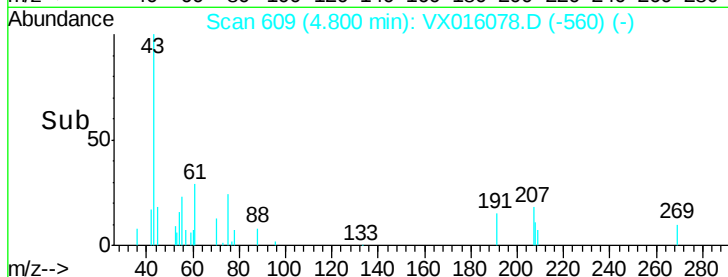
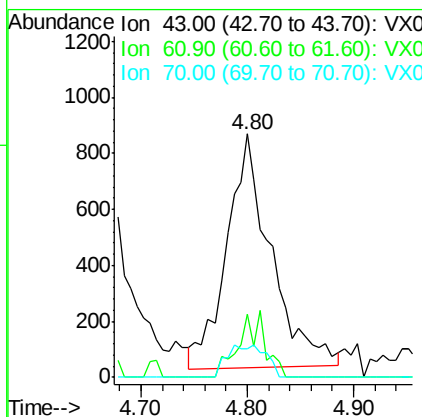
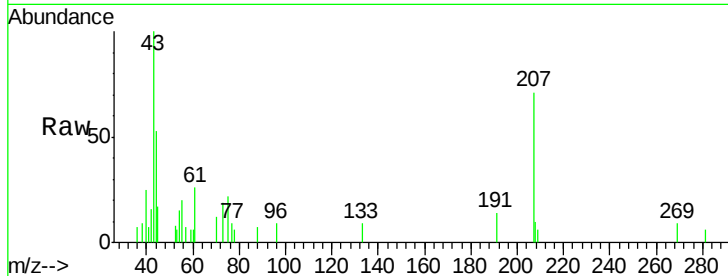
#37
Ethyl Acetate
Concen: 0.447 ug/l
RT: 4.80 min Scan# 609
Delta R.T. -0.00 min
Lab File: VX016078.D
Acq: 06 May 2020 13:05

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
43	100		
61	16.8	11.7	17.5
70	0.0	9.3	13.9

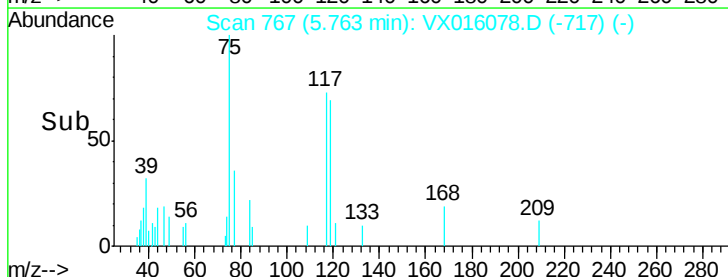
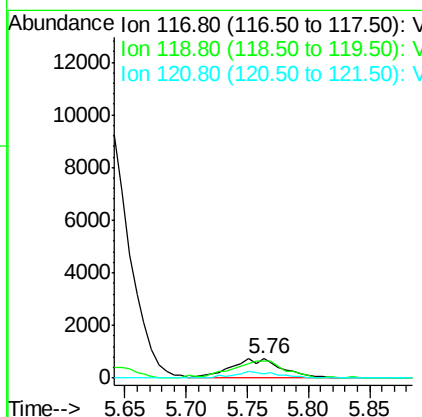
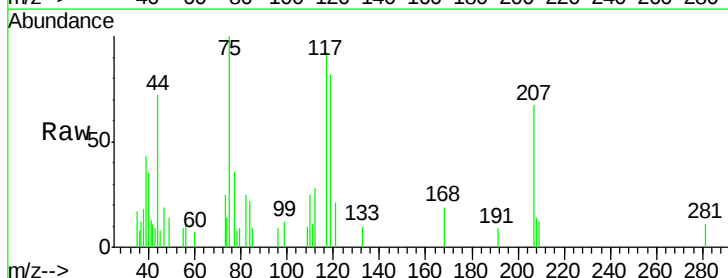
Manual Integrations
APPROVED

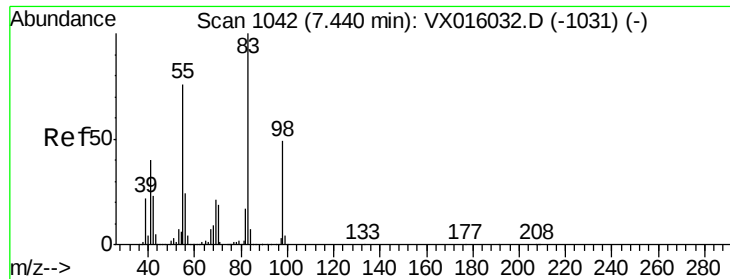
MMDadoda
5/8/2020 11:54:53 AM



#38
Carbon Tetrachloride
Concen: 0.451 ug/l
RT: 5.76 min Scan# 767
Delta R.T. 0.01 min
Lab File: VX016078.D
Acq: 06 May 2020 13:05

Tgt Ion	Ratio	Lower	Upper
117	100		
119	89.5	80.3	120.5
121	23.1	25.7	38.5





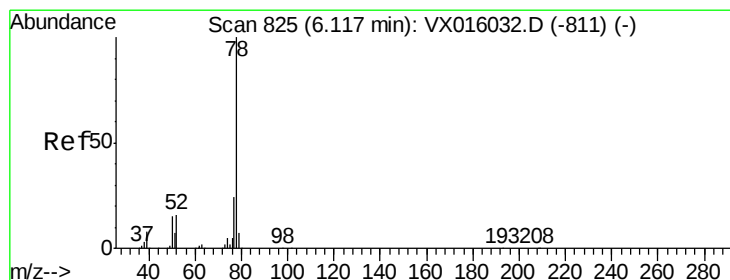
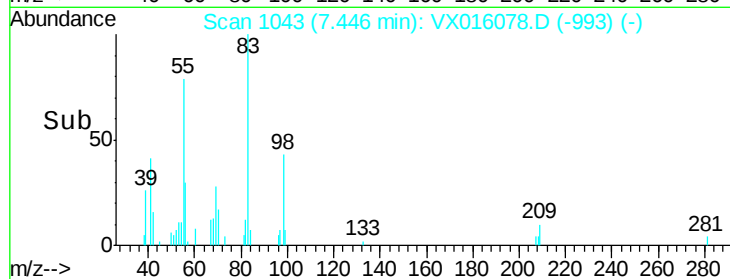
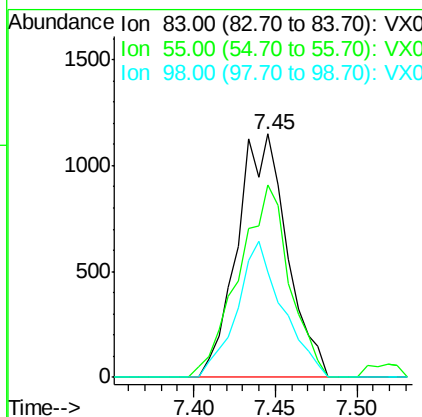
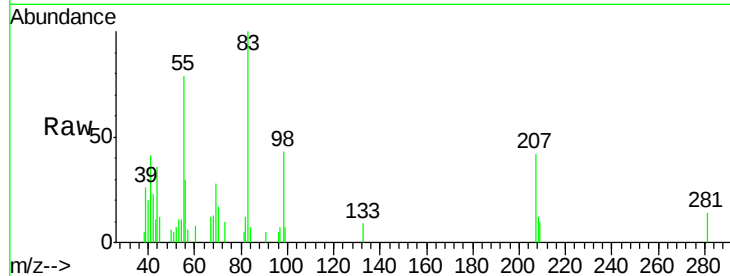
#39
Methvlcvclohexane
Concen: 0.432 ug/l
RT: 7.45 min Scan# 1043
Delta R.T. 0.01 min
Lab File: VX016078.D
Acq: 06 May 2020 13:05

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
83	100		
55	79.3	61.1	91.7
98	43.1	39.0	58.4

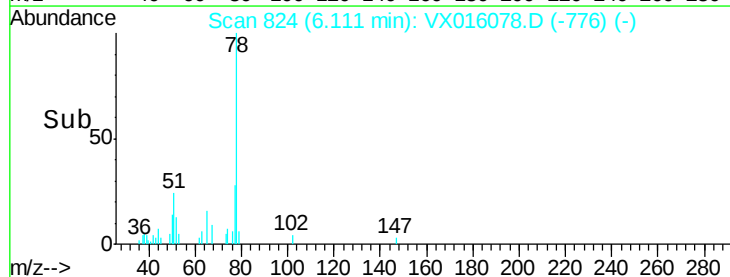
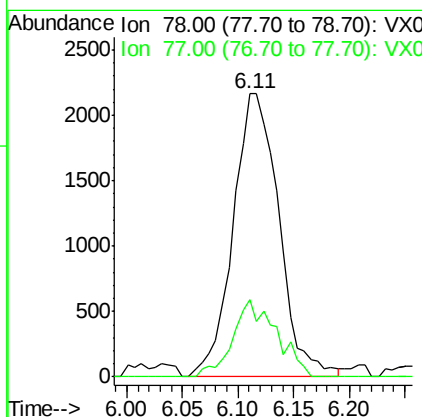
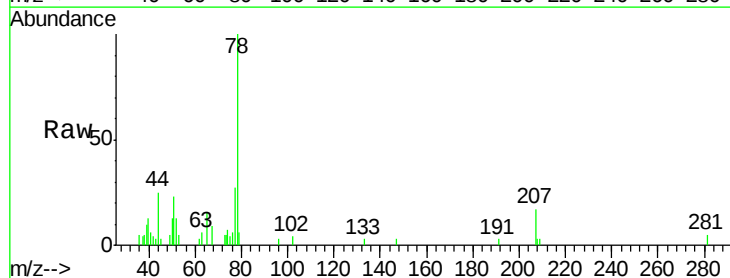
Manual Integrations
APPROVED

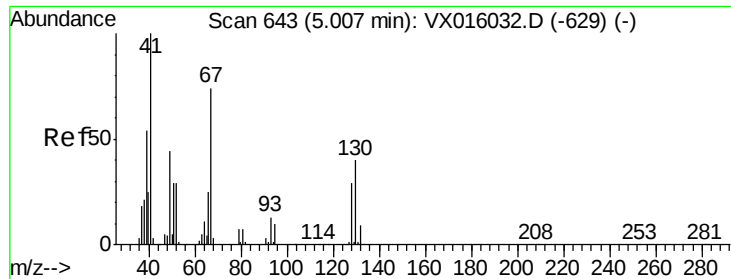
MMDadoda
5/8/2020 11:54:53 AM



#40
Benzene
Concen: 0.451 ug/l
RT: 6.11 min Scan# 824
Delta R.T. -0.01 min
Lab File: VX016078.D
Acq: 06 May 2020 13:05

Tgt Ion	Ratio	Lower	Upper
78	100		
77	27.4	19.0	28.4





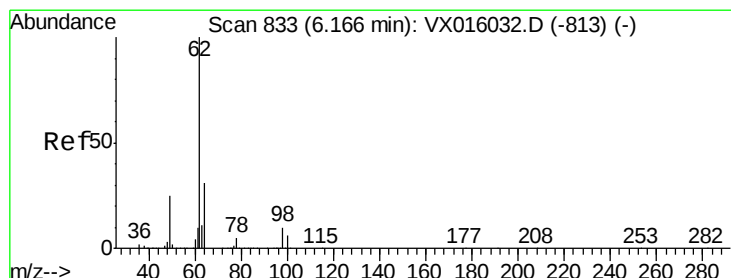
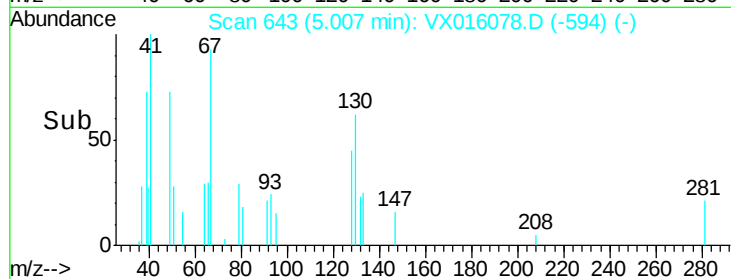
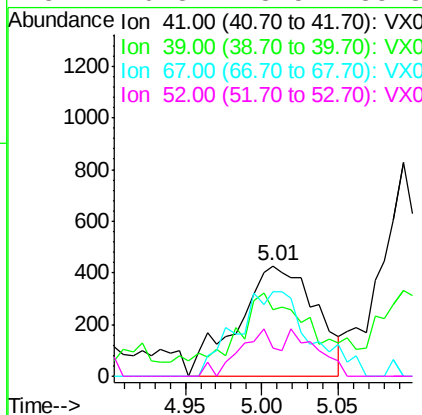
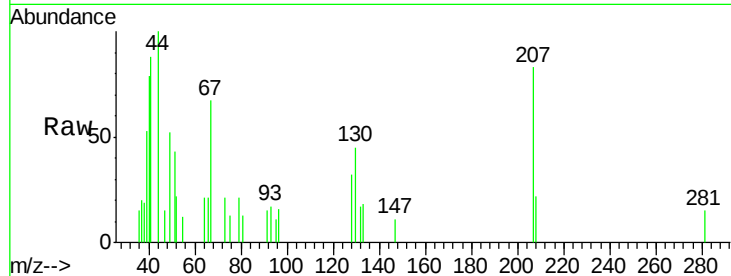
#41
Methacrylonitrile
Concen: 0.513 ug/l
RT: 5.01 min Scan# 643
Delta R.T. -0.00 min
Lab File: VX016078.D
Acq: 06 May 2020 13:05

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		1507		
39	67.4	43.2	64.8#		
67	0.0	59.3	88.9#		
52	20.8	23.5	35.3#		

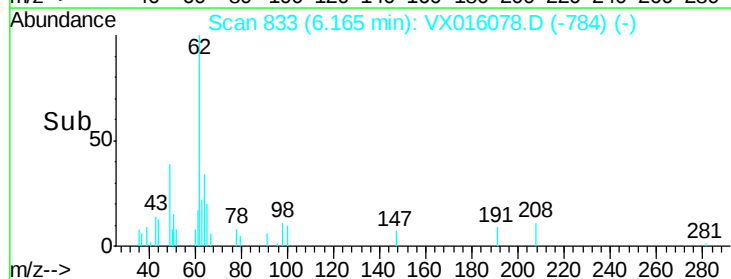
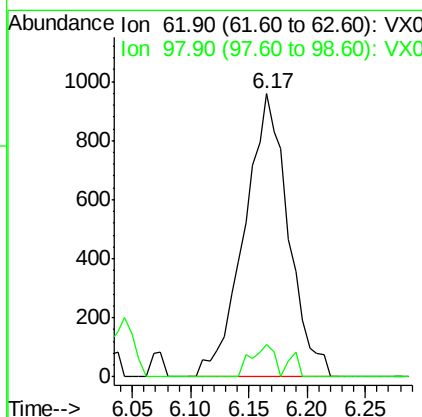
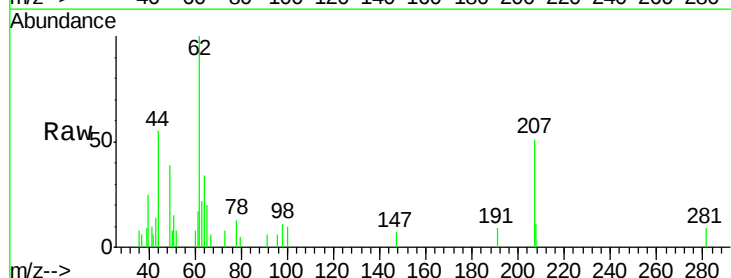
Manual Integrations
APPROVED

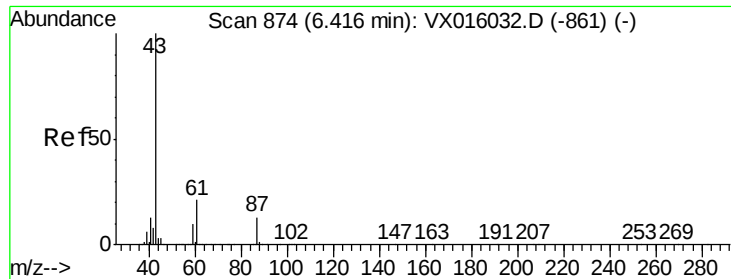
MMDadoda
5/8/2020 11:54:53 AM



#42
1,2-Dichloroethane
Concen: 0.508 ug/l
RT: 6.17 min Scan# 833
Delta R.T. -0.00 min
Lab File: VX016078.D
Acq: 06 May 2020 13:05

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		2513		
98	6.0	0.0	19.4		





#43

Isopropyl Acetate

Concen: 0.422 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Instrument :

MSVOA_X

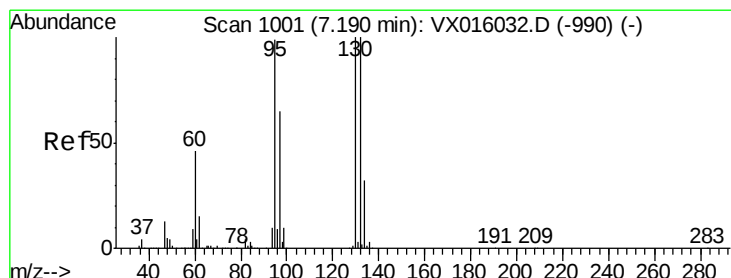
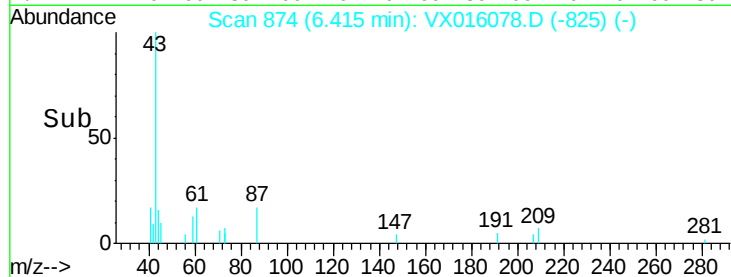
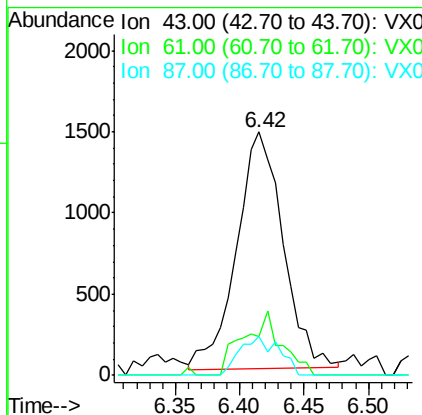
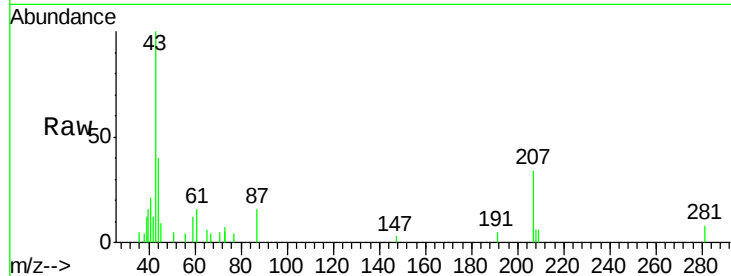
ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion:	43	Resp:	3659
Ion	Ratio	Lower	Upper
43	100		
61	22.0	17.0	25.4
87	13.9	11.0	16.6

Manual Integrations
APPROVED

MMDadoda
5/8/2020 11:54:53 AM



#44

Trichloroethene

Concen: 0.450 ug/l

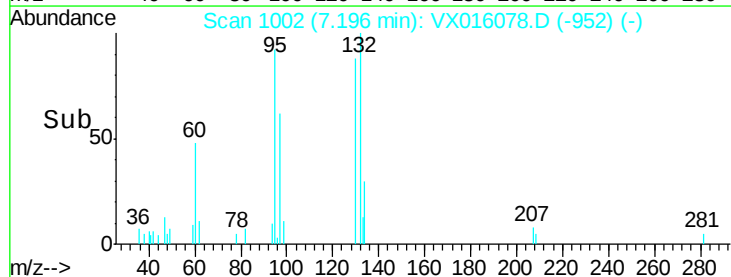
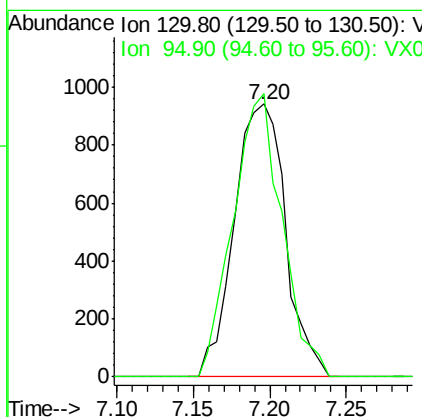
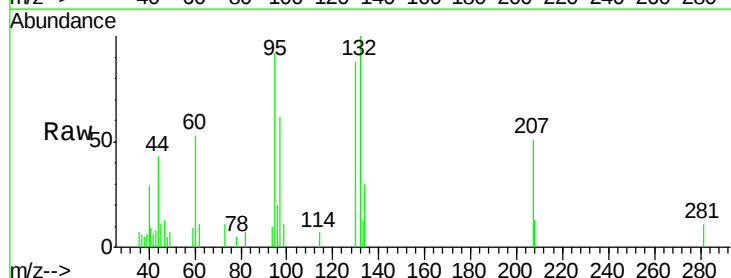
RT: 7.20 min Scan# 1002

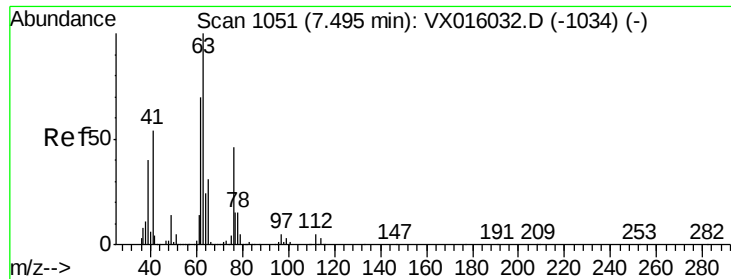
Delta R.T. 0.01 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Tgt Ion:	130	Resp:	2197
Ion	Ratio	Lower	Upper
130	100		
95	103.7	0.0	197.4





#45

1,2-Dichloropropane

Concen: 0.434 ug/l

RT: 7.49 min Scan# 1050

Delta R.T. -0.01 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion: 63 Resp: 1509

Ion Ratio Lower Upper

63 100

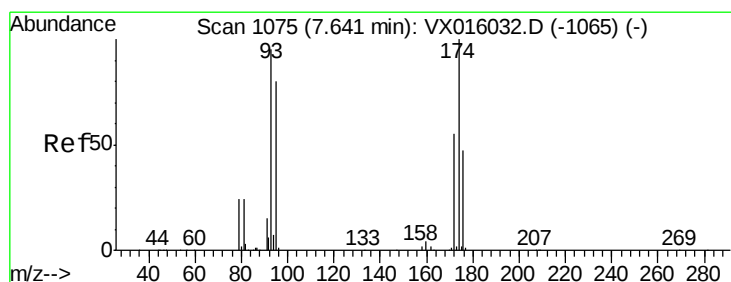
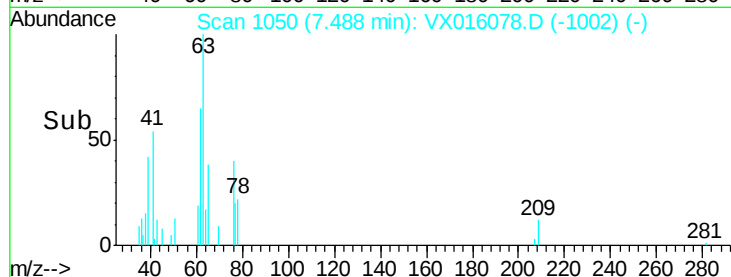
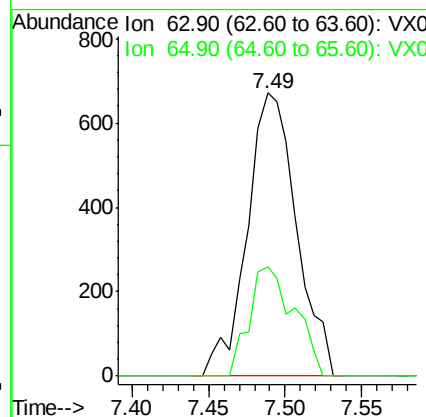
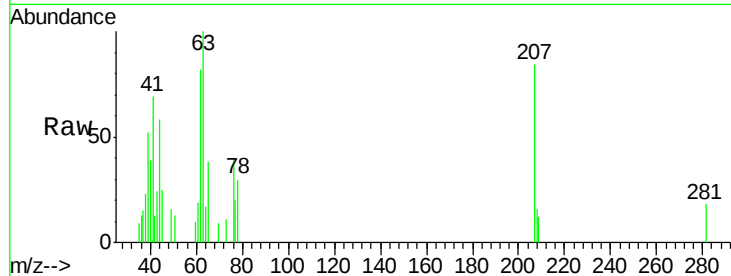
65 38.5 24.4 36.6#

Manual Integrations

APPROVED

MMDadoda

5/8/2020 11:54:53 AM



#46

Dibromomethane

Concen: 0.427 ug/l

RT: 7.65 min Scan# 1076

Delta R.T. 0.01 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

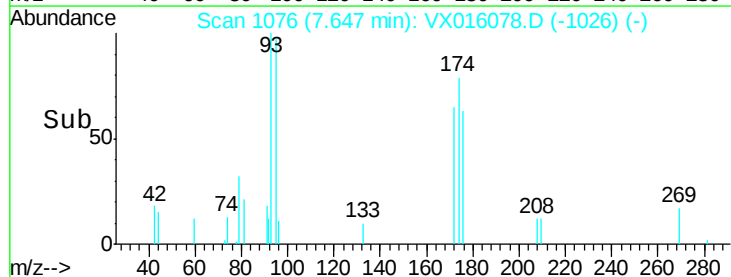
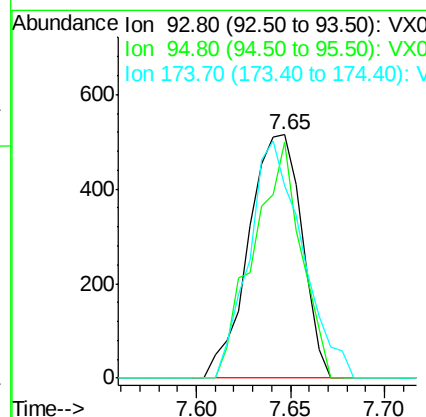
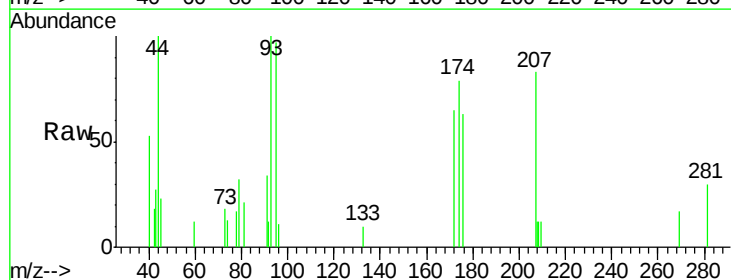
Tgt Ion: 93 Resp: 1009

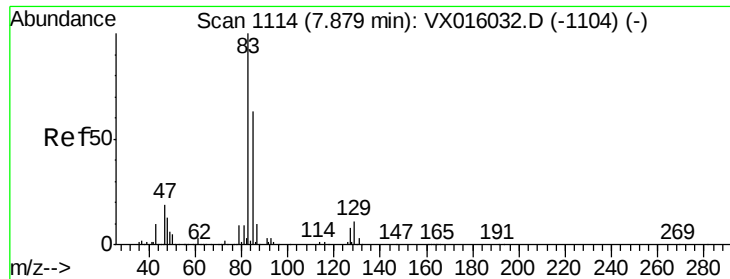
Ion Ratio Lower Upper

93 100

95 86.2 66.6 100.0

174 97.5 84.2 126.4





#47

Bromodichloromethane

Concen: 0.356 ug/l

RT: 7.88 min Scan# 1114

Delta R.T. -0.00 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Instrument :

MSVOA_X

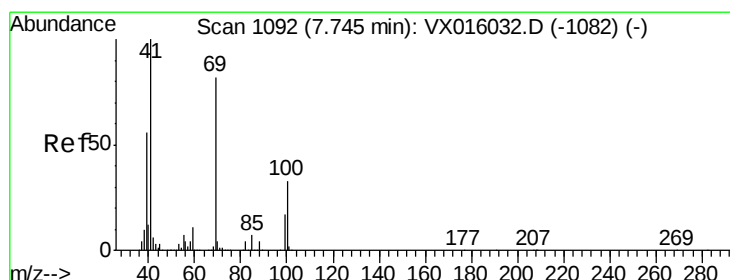
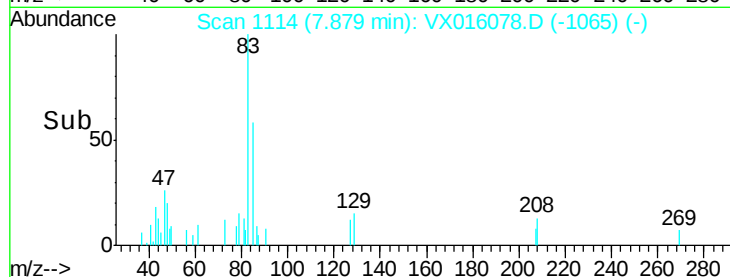
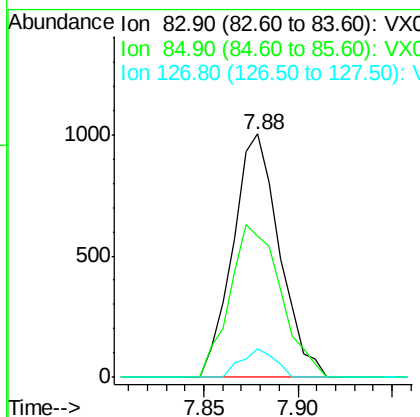
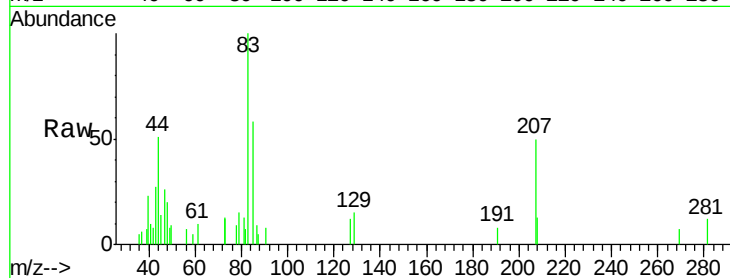
ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion:	83	Resp:	1714
Ion	Ratio	Lower	Upper
83	100		
85	58.1	50.5	75.7
127	11.9	6.7	10.1#

Manual Integrations
APPROVED

MMDadoda
5/8/2020 11:54:53 AM



#48

Methyl methacrylate

Concen: 0.439 ug/l

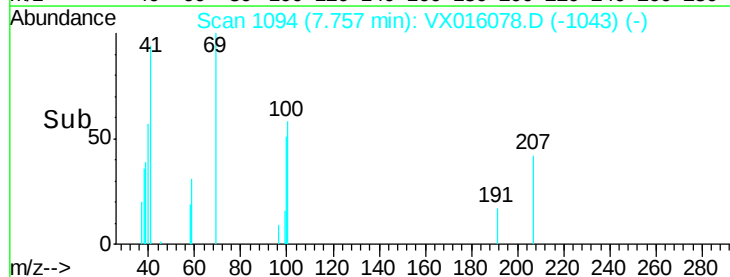
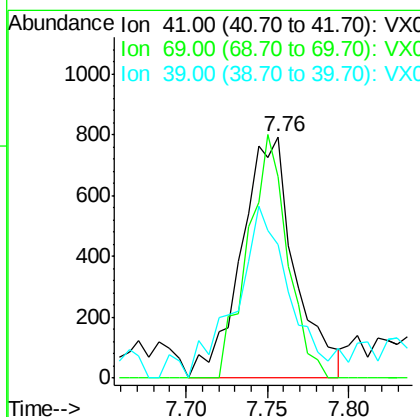
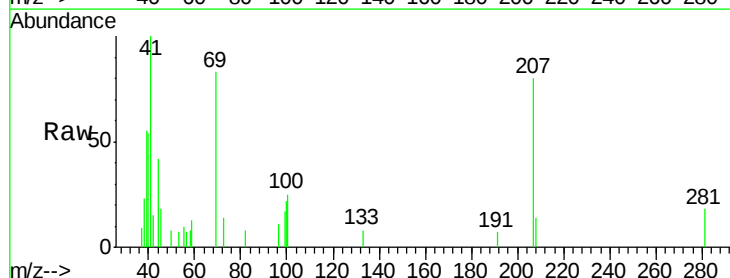
RT: 7.76 min Scan# 1094

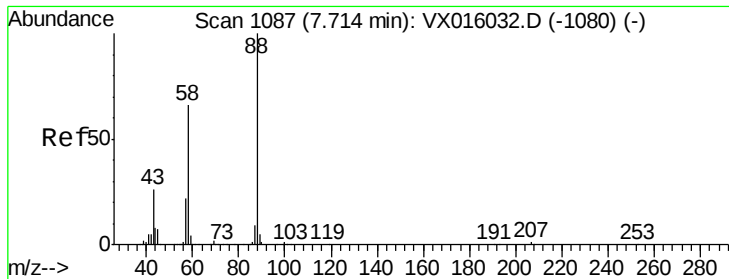
Delta R.T. 0.01 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Tgt Ion:	41	Resp:	1806
Ion	Ratio	Lower	Upper
41	100		
69	75.0	67.8	101.6
39	72.9	44.6	67.0#





#49

1,4-Dioxane

Concen: 8.578 ug/l

RT: 7.72 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Instrument :

MSVOA_X

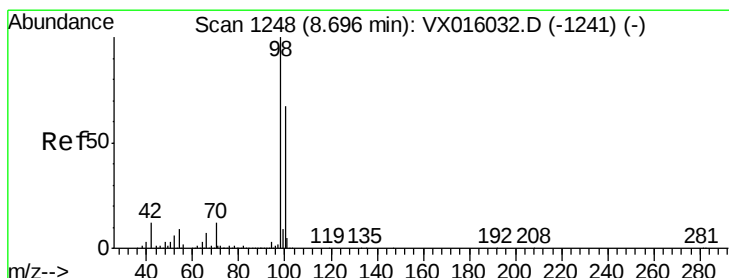
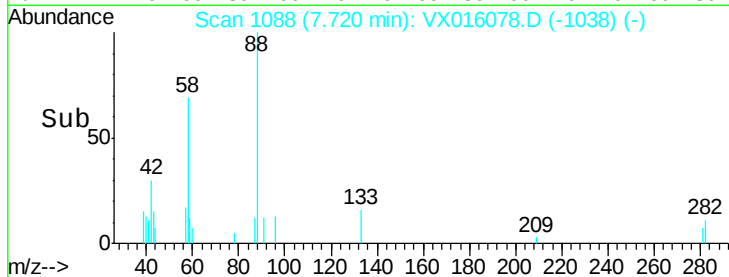
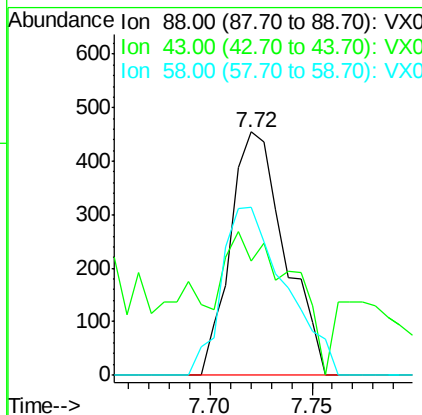
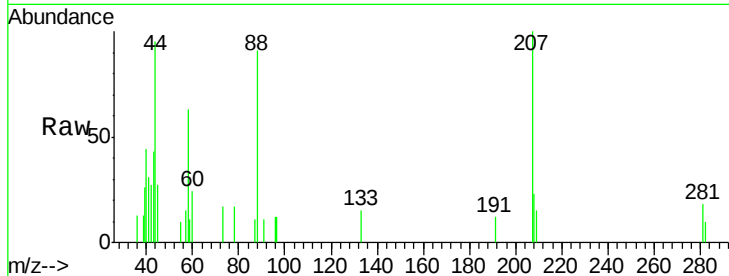
ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion:	88	Resp:	846
Ion	Ratio	Lower	Upper
88	100		
43	71.0	25.3	37.9#
58	80.5	55.9	83.9

Manual Integrations
APPROVED

MMDadoda
5/8/2020 11:54:53 AM



#50

Toluene-d8

Concen: 50.358 ug/l

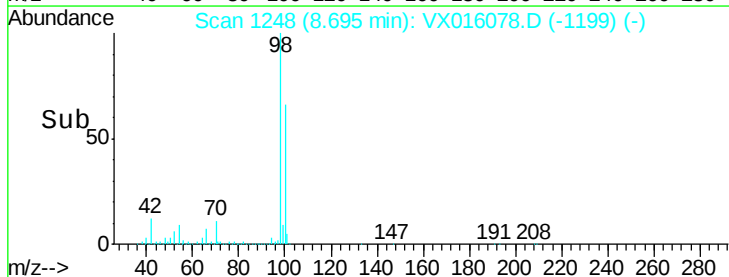
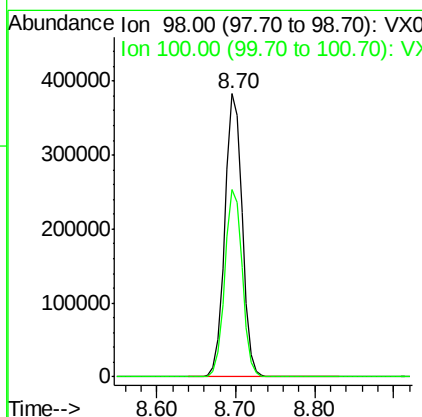
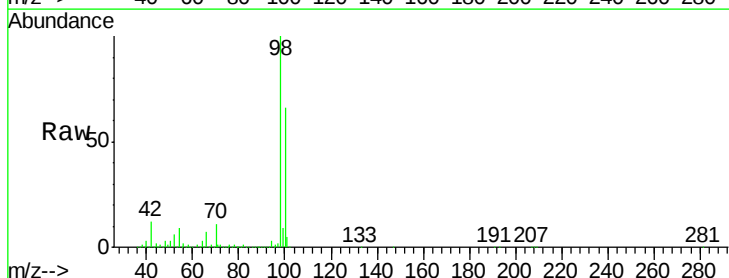
RT: 8.70 min Scan# 1248

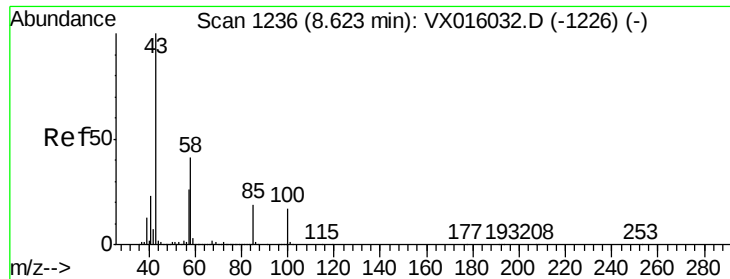
Delta R.T. -0.00 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Tgt Ion:	98	Resp:	586059
Ion	Ratio	Lower	Upper
98	100		
100	66.5	53.7	80.5





#51

4-Methyl-2-Pentanone

Concen: 1.812 ug/l

RT: 8.62 min Scan# 1236

Delta R.T. -0.00 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion: 43 Resp: 9624

Ion Ratio Lower Upper

43 100

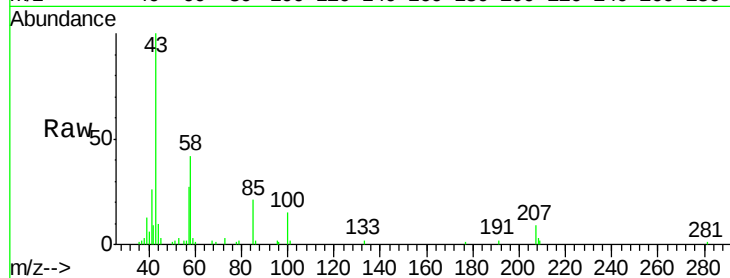
58 42.2 33.0 49.4

Manual Integrations

APPROVED

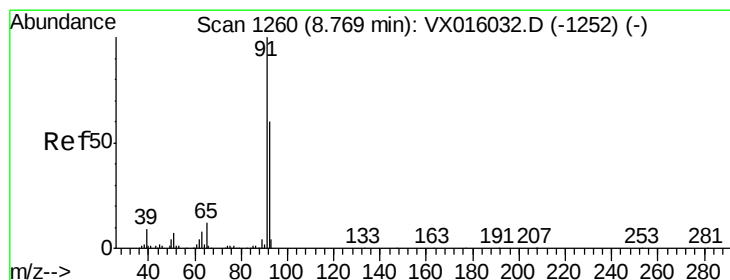
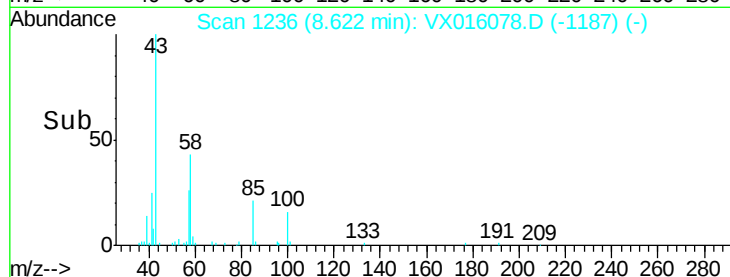
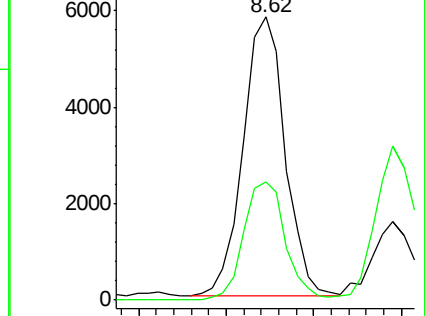
MMDadoda

5/8/2020 11:54:53 AM



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#52

Toluene

Concen: 0.428 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VX016078.D

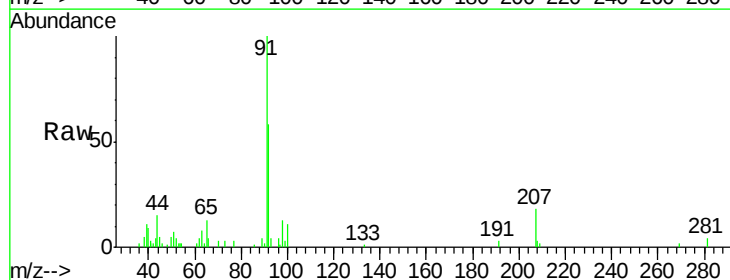
Acq: 06 May 2020 13:05

Tgt Ion: 92 Resp: 3667

Ion Ratio Lower Upper

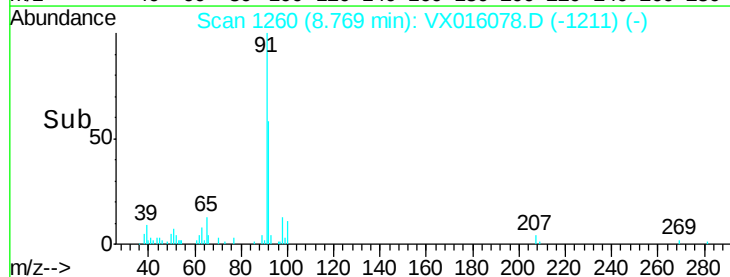
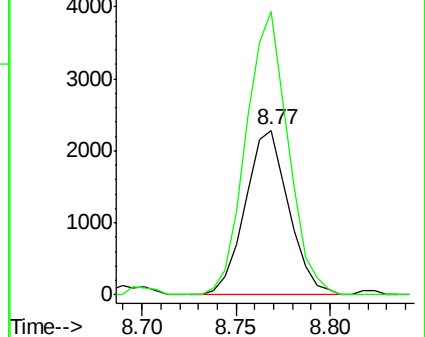
92 100

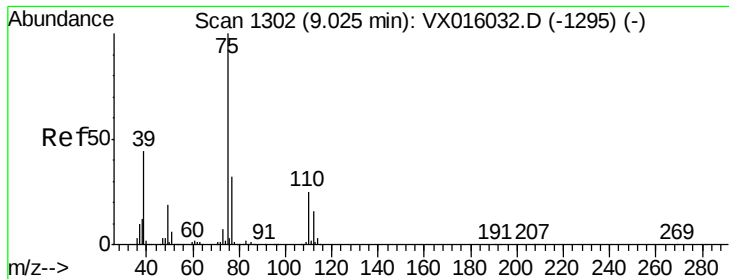
91 165.4 134.5 201.7



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0





#53

t-1,3-Dichloropropene

Concen: 0.397 ug/l

RT: 9.02 min Scan# 1302

Delta R.T. -0.00 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion: 75 Resp: 2277

Ion Ratio Lower Upper

75 100

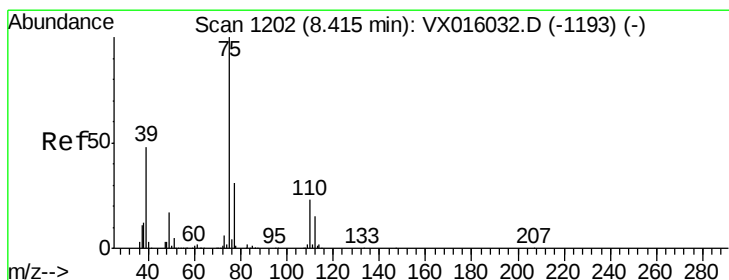
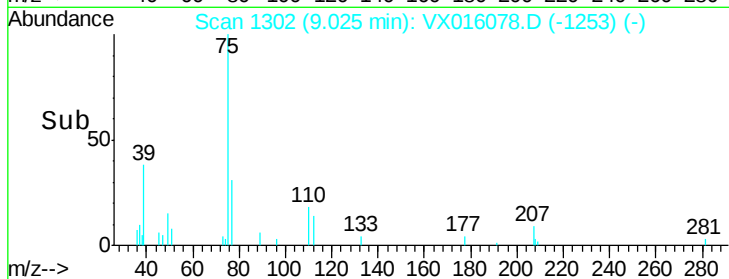
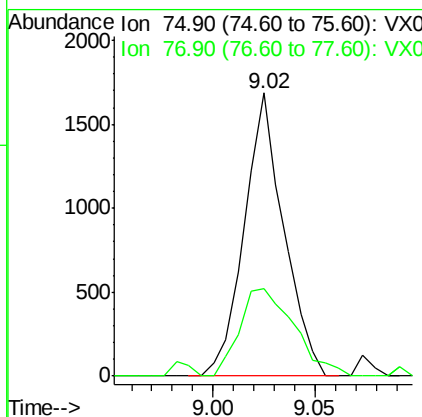
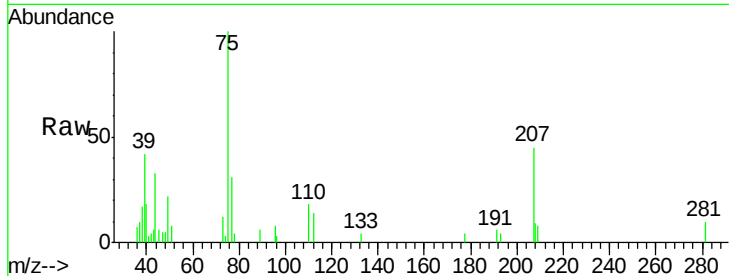
77 27.6 25.7 38.5

Manual Integrations

APPROVED

MMDadoda

5/8/2020 11:54:53 AM



#54

cis-1,3-Dichloropropene

Concen: 0.396 ug/l

RT: 8.42 min Scan# 1202

Delta R.T. -0.00 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

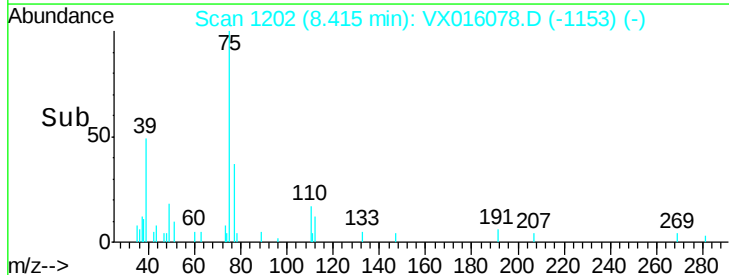
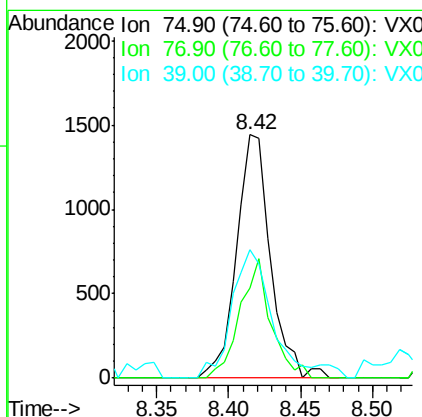
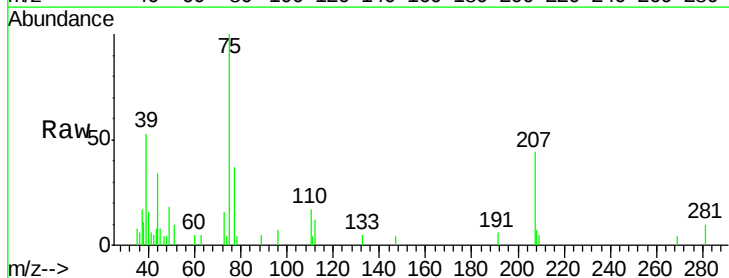
Tgt Ion: 75 Resp: 2373

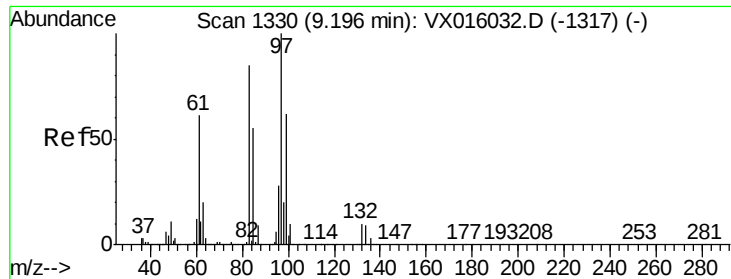
Ion Ratio Lower Upper

75 100

77 37.1 24.7 37.1#

39 52.6 38.7 58.1





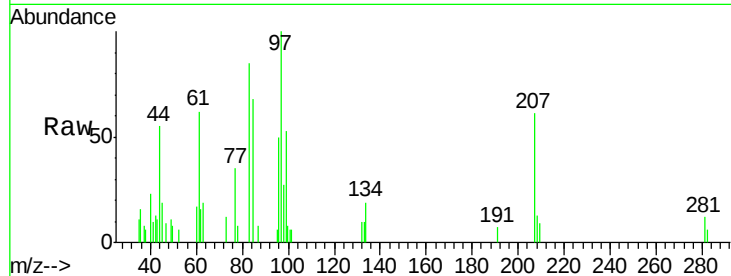
#55
 1,1,2-Trichloroethane
 Concen: 0.412 ug/l
 RT: 9.20 min Scan# 1330
 Delta R.T. -0.00 min
 Lab File: VX016078.D
 Acq: 06 May 2020 13:05

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT2-2020DL

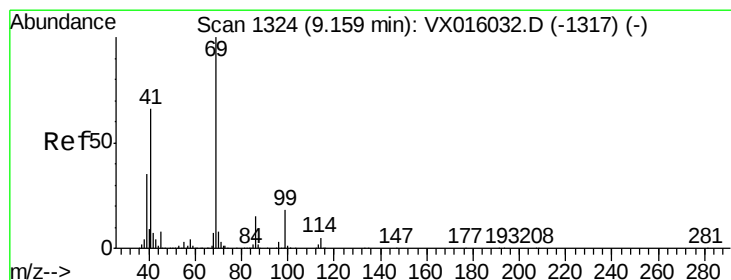
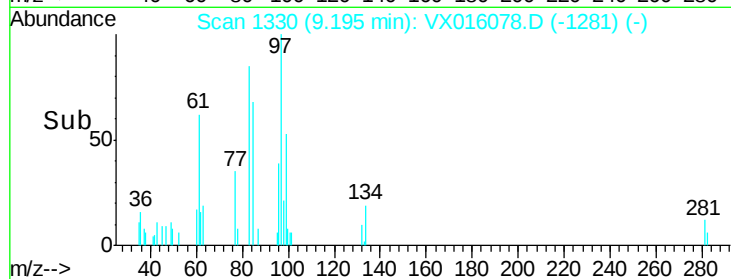
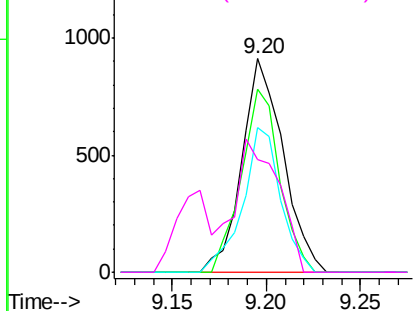
Tot Ion:	97	Resp:	1387
Ion	Ratio	Lower	Upper
97	100		
83	85.4	67.8	101.8
85	67.8	43.8	65.8#
99	52.5	49.4	74.0

Manual Integrations
 APPROVED

MMDadoda
 5/8/2020 11:54:53 AM

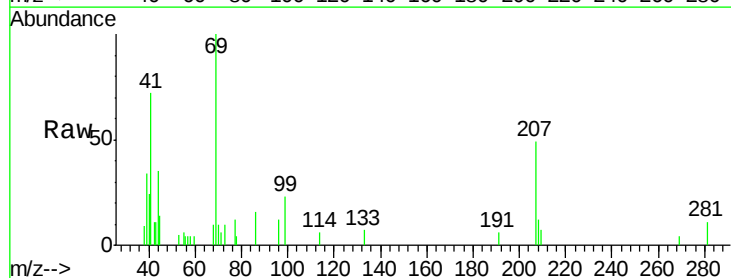


Abundance Ion 96.90 (96.60 to 97.60): VX0
 Ion 82.90 (82.60 to 83.60): VX0
 Ion 84.90 (84.60 to 85.60): VX0
 Ion 98.90 (98.60 to 99.60): VX0

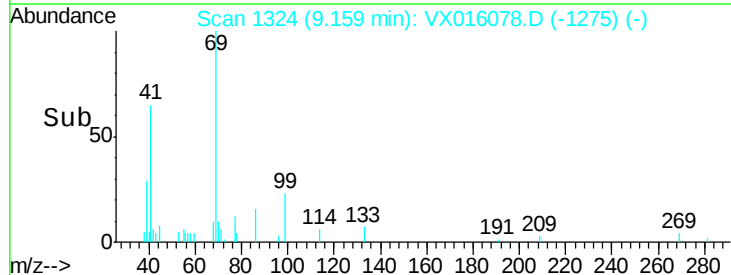
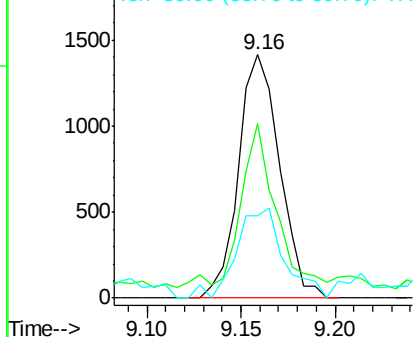


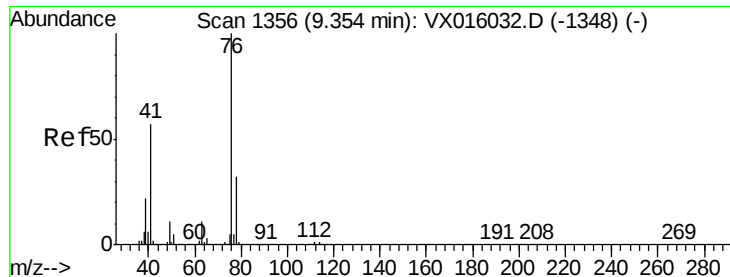
#56
 Ethyl methacrylate
 Concen: 0.390 ug/l
 RT: 9.16 min Scan# 1324
 Delta R.T. -0.00 min
 Lab File: VX016078.D
 Acq: 06 May 2020 13:05

Tgt Ion:	69	Resp:	2146
Ion	Ratio	Lower	Upper
69	100		
41	56.1	52.2	78.4
39	42.5	28.2	42.4#



Abundance Ion 69.00 (68.70 to 69.70): VX0
 Ion 41.00 (40.70 to 41.70): VX0
 Ion 39.00 (38.70 to 39.70): VX0





#57

1,3-Dichloropropane

Concen: 0.408 ug/l

RT: 9.35 min Scan# 1356

Delta R.T. -0.00 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion: 76 Resp: 2396

Ion Ratio Lower Upper

76 100

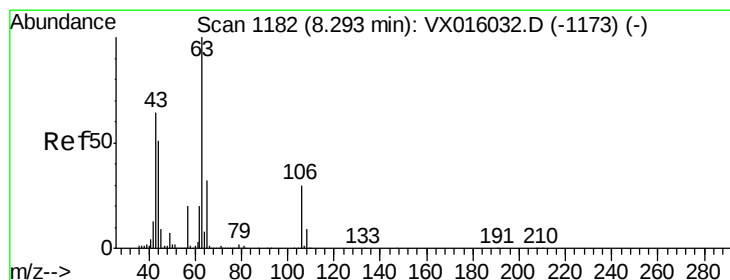
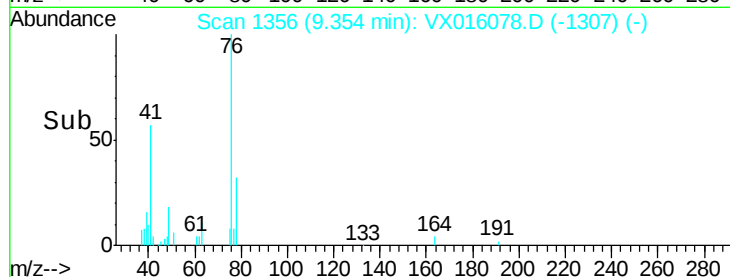
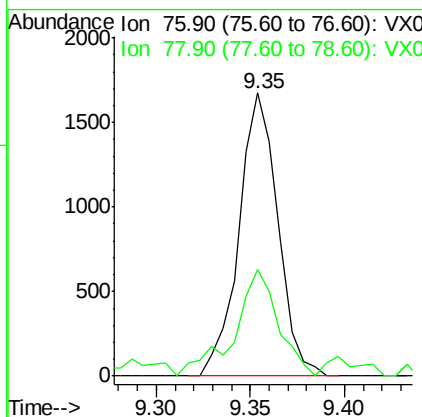
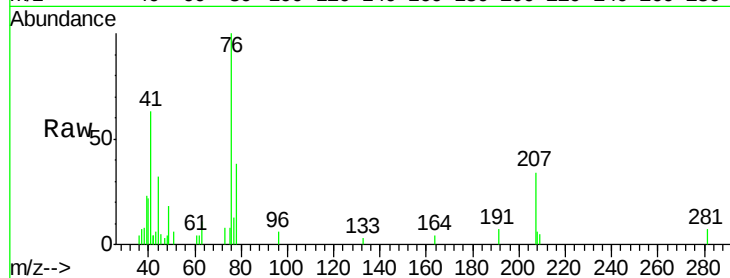
78 42.4 25.9 38.9#

Manual Integrations

APPROVED

MMDadoda

5/8/2020 11:54:53 AM



#58

2-Chloroethyl Vinyl ether

Concen: 1.992 ug/l

RT: 8.29 min Scan# 1182

Delta R.T. -0.00 min

Lab File: VX016078.D

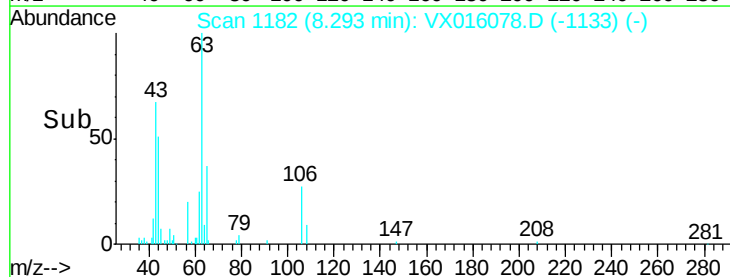
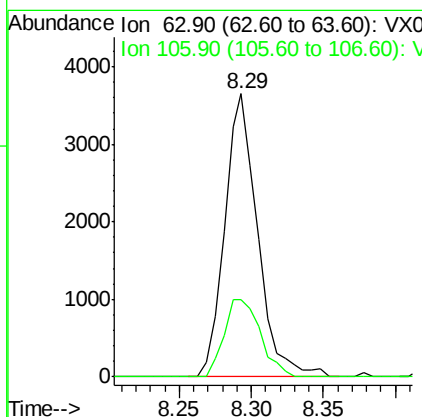
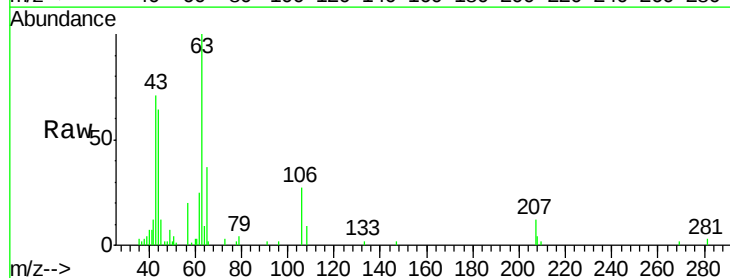
Acq: 06 May 2020 13:05

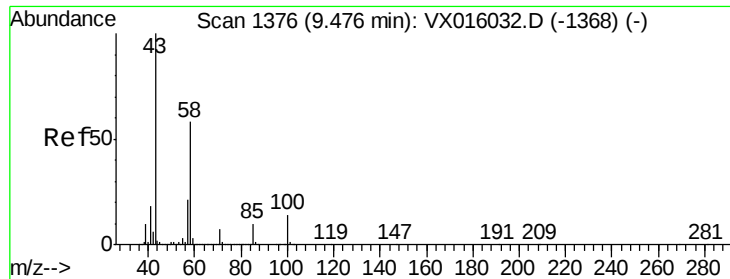
Tgt Ion: 63 Resp: 5830

Ion Ratio Lower Upper

63 100

106 30.2 23.4 35.2





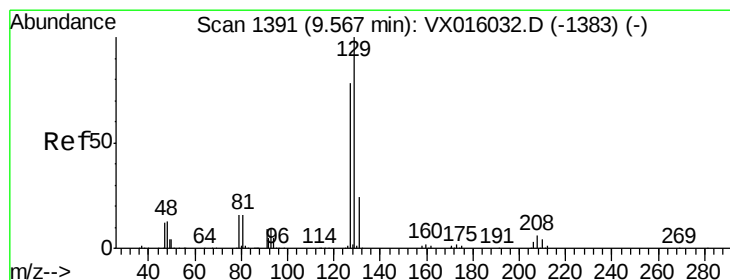
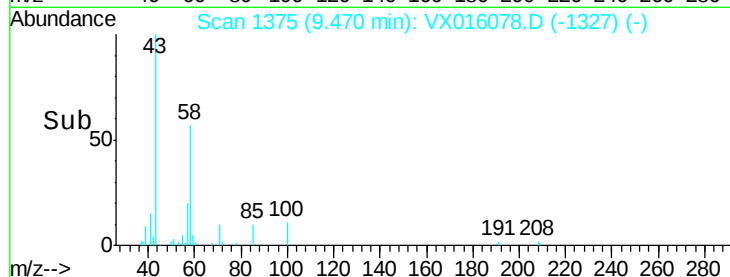
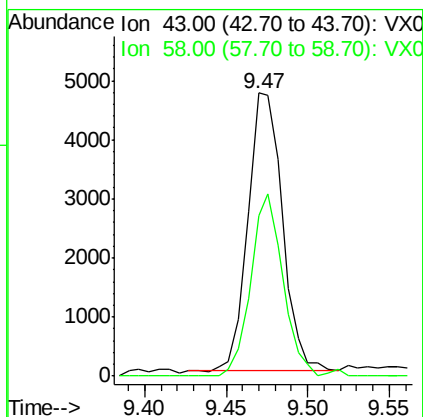
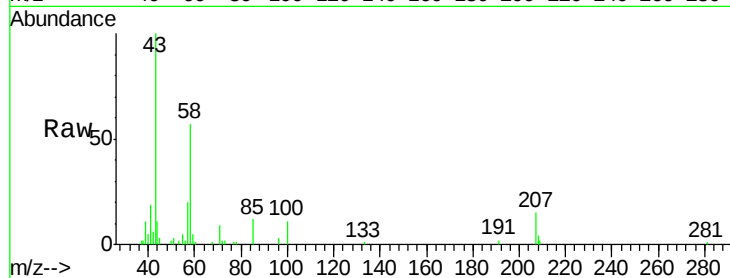
#59
2-Hexanone
Concen: 1.670 ug/l
RT: 9.47 min Scan# 1375
Delta R.T. -0.01 min
Lab File: VX016078.D
Acq: 06 May 2020 13:05

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion: 43 Resp: 6963
Ion Ratio Lower Upper
43 100
58 60.9 28.6 85.9

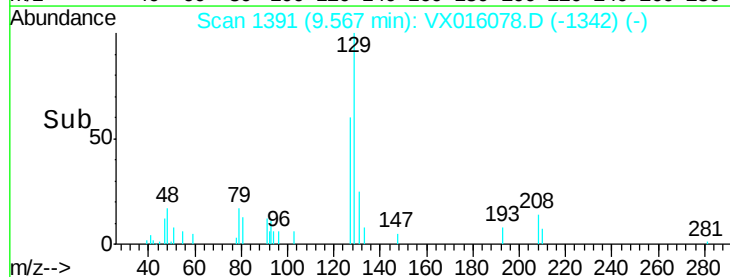
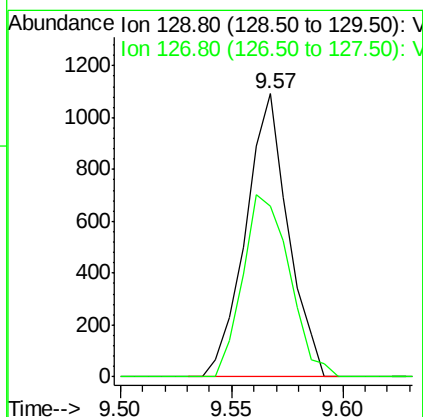
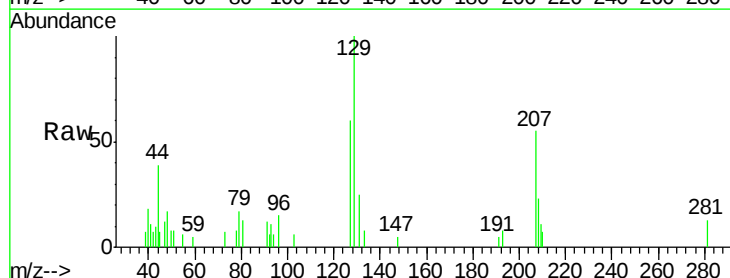
Manual Integrations
APPROVED

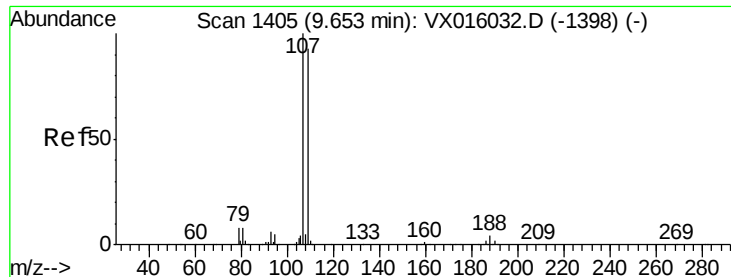
MMDadoda
5/8/2020 11:54:53 AM



#60
Dibromochloromethane
Concen: 0.393 ug/l
RT: 9.57 min Scan# 1391
Delta R.T. -0.00 min
Lab File: VX016078.D
Acq: 06 May 2020 13:05

Tgt Ion: 129 Resp: 1456
Ion Ratio Lower Upper
129 100
127 70.5 38.4 115.2





#61

1,2-Dibromoethane

Concen: 0.422 ug/l

RT: 9.65 min Scan# 1405

Delta R.T. -0.00 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion: 107 Resp: 1538

Ion Ratio Lower Upper

107 100

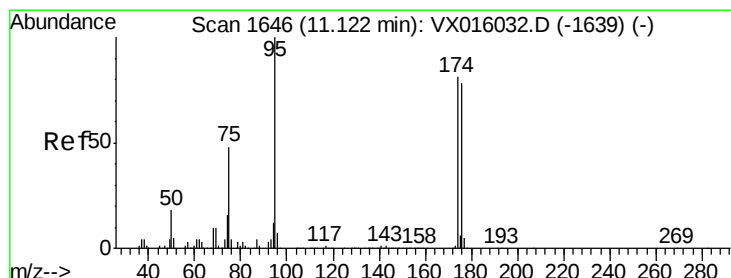
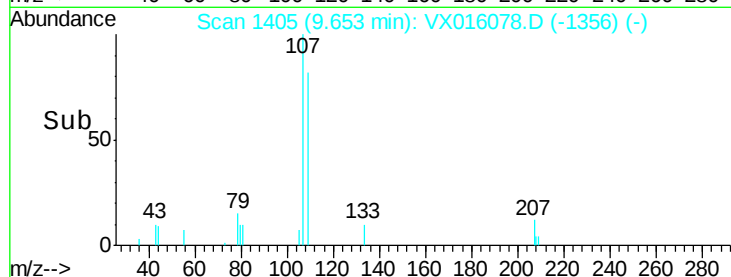
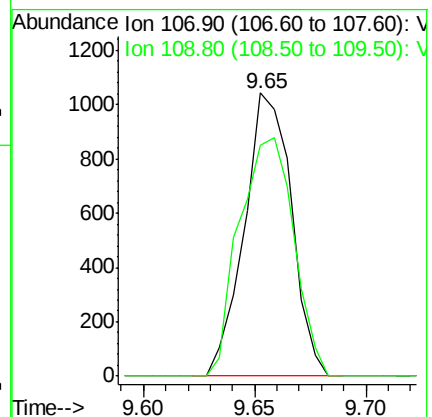
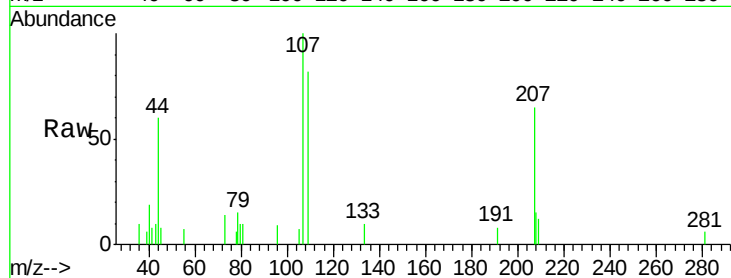
109 97.1 74.9 112.3

Manual Integrations

APPROVED

MMDadoda

5/8/2020 11:54:53 AM



#62

4-Bromofluorobenzene

Concen: 47.788 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

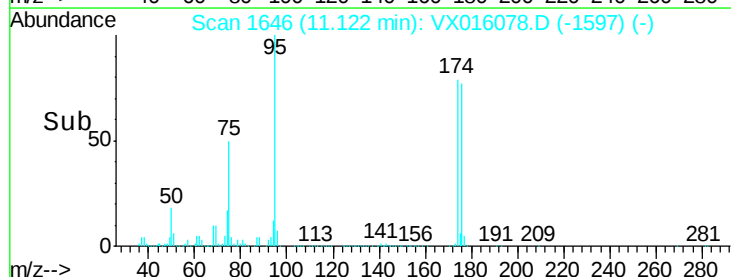
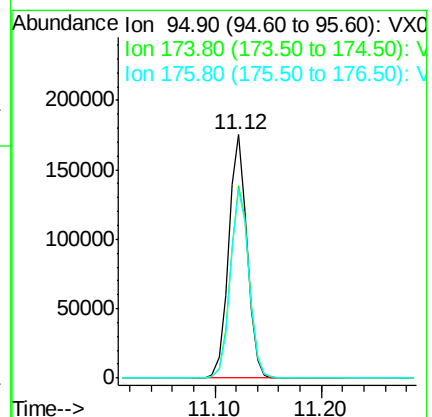
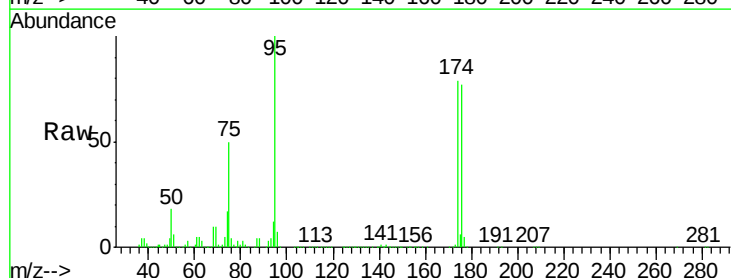
Tgt Ion: 95 Resp: 211535

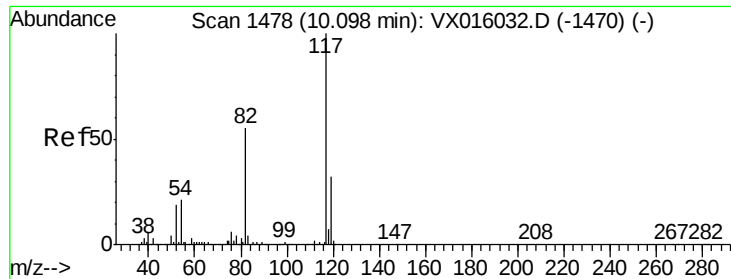
Ion Ratio Lower Upper

95 100

174 79.8 0.0 159.4

176 78.7 0.0 157.6





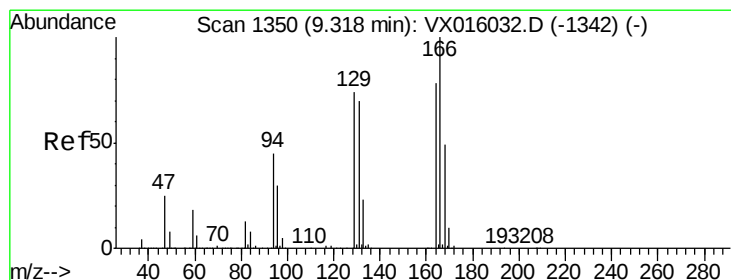
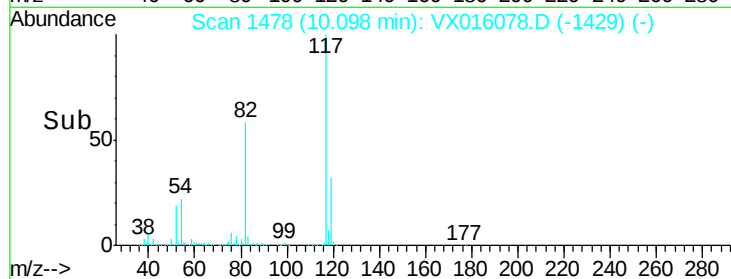
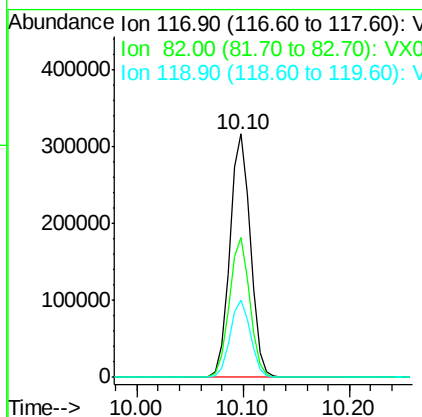
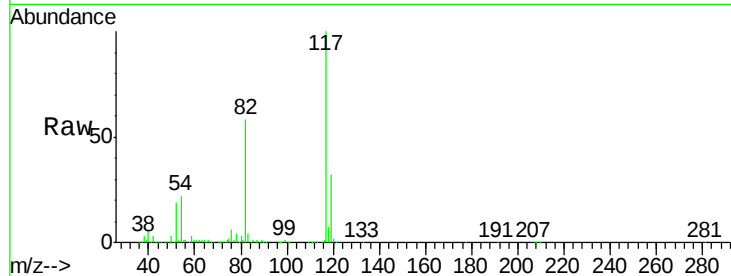
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016078.D
Acq: 06 May 2020 13:05

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion:	117	Resp:	430404
Ion Ratio	Lower	Upper	
117	100		
82	57.7	44.4	66.6
119	31.9	25.5	38.3

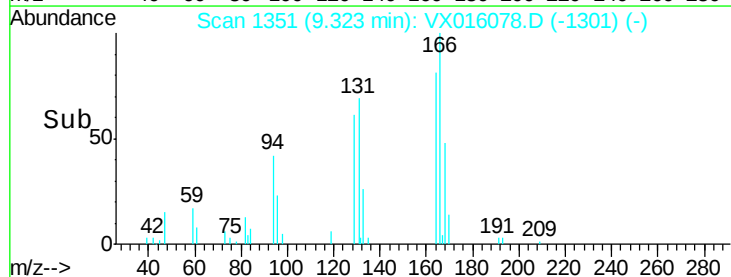
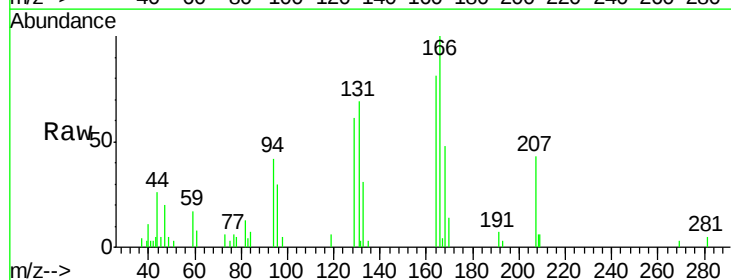
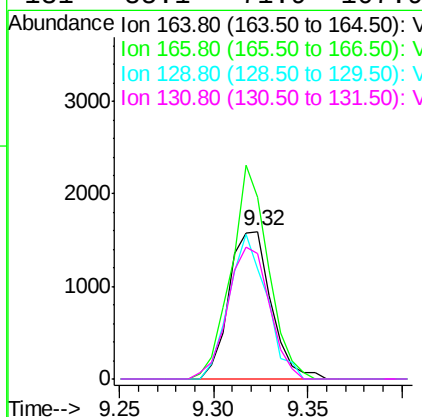
Manual Integrations
APPROVED

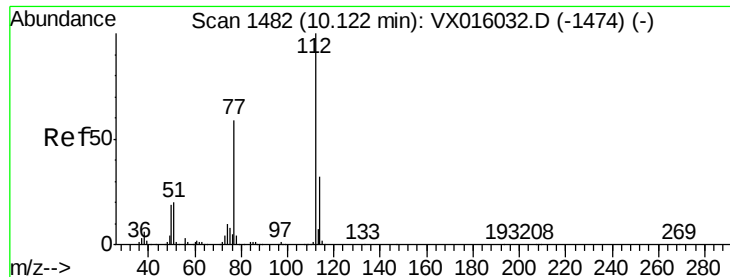
MMDadoda
5/8/2020 11:54:53 AM



#64
Tetrachloroethene
Concen: 0.468 ug/l
RT: 9.32 min Scan# 1351
Delta R.T. 0.01 min
Lab File: VX016078.D
Acq: 06 May 2020 13:05

Tgt Ion:	164	Resp:	2474
Ion Ratio	Lower	Upper	
164	100		
166	122.8	102.9	154.3
129	74.8	76.1	114.1#
131	85.1	71.9	107.9





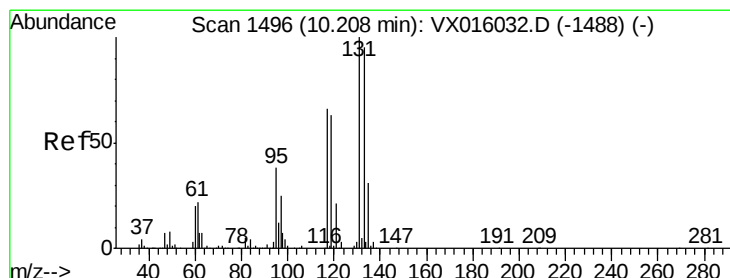
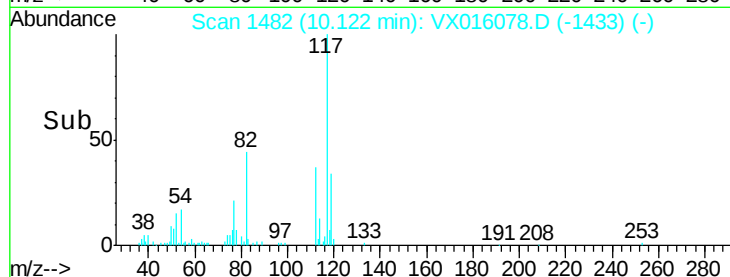
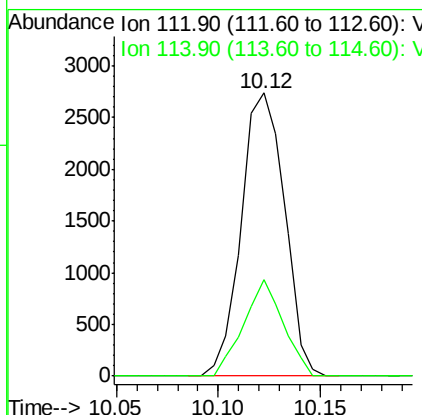
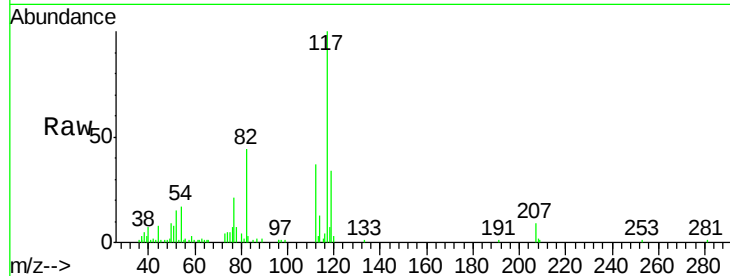
#65
Chlorobenzene
Concen: 0.447 ug/l
RT: 10.12 min Scan# 1482
Delta R.T. -0.00 min
Lab File: VX016078.D
Acq: 06 May 2020 13:05

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion:112 Resp: 4030
Ion Ratio Lower Upper
112 100
114 34.2 25.7 38.5

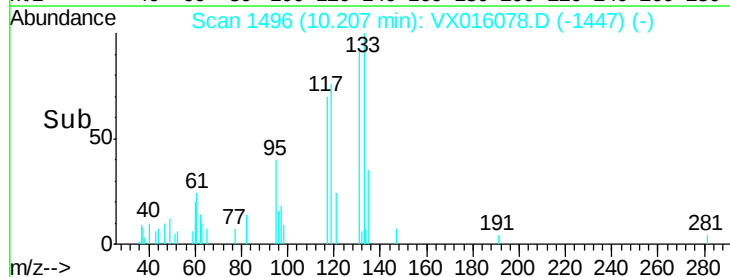
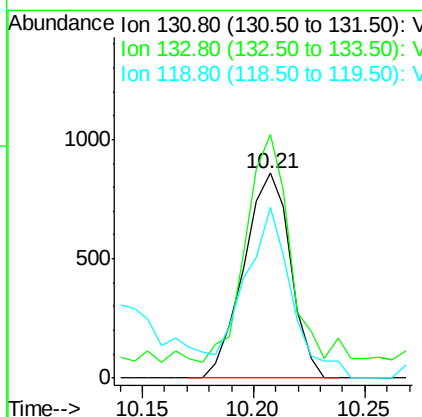
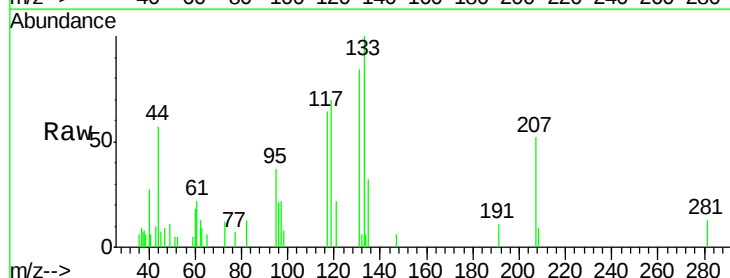
Manual Integrations
APPROVED

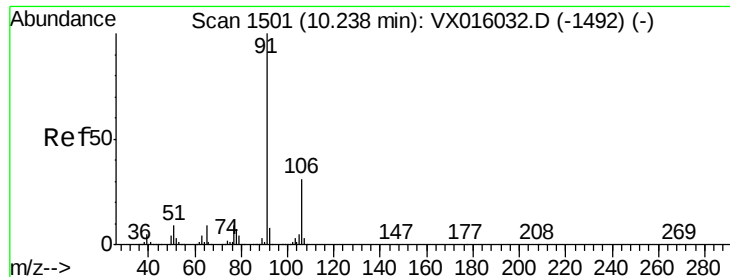
MMDadoda
5/8/2020 11:54:53 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 0.376 ug/l
RT: 10.21 min Scan# 1496
Delta R.T. -0.00 min
Lab File: VX016078.D
Acq: 06 May 2020 13:05

Tgt Ion:131 Resp: 1251
Ion Ratio Lower Upper
131 100
133 105.8 48.3 144.8
119 0.0 32.3 96.9#





#67

Ethyl Benzene

Concen: 0.429 ug/l

RT: 10.24 min Scan# 1501

Delta R.T. -0.00 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion: 91 Resp: 6893

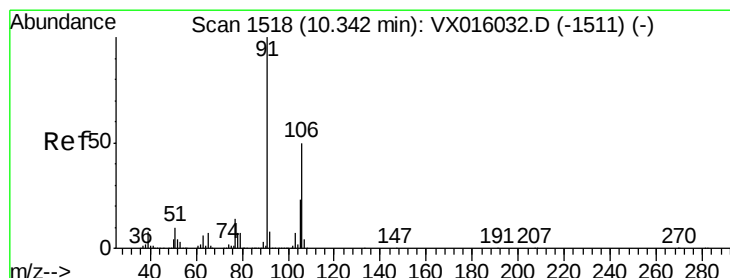
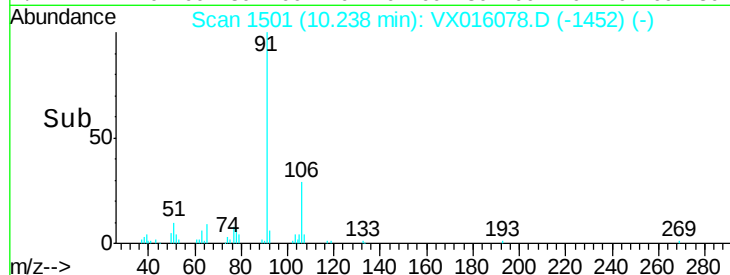
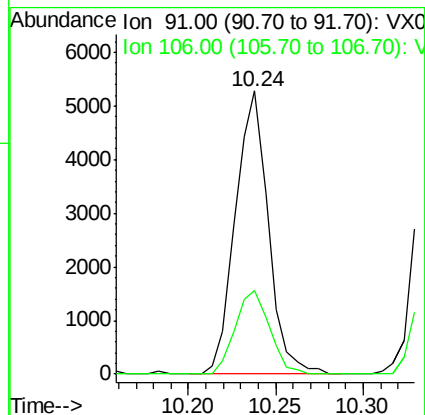
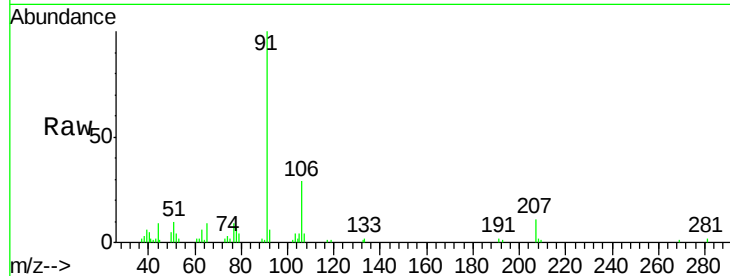
Ion Ratio Lower Upper

91 100

106 29.5 25.1 37.7

Manual Integrations
APPROVED

MMDadoda
5/8/2020 11:54:53 AM



#68

m/p-Xylenes

Concen: 0.822 ug/l

RT: 10.34 min Scan# 1518

Delta R.T. -0.00 min

Lab File: VX016078.D

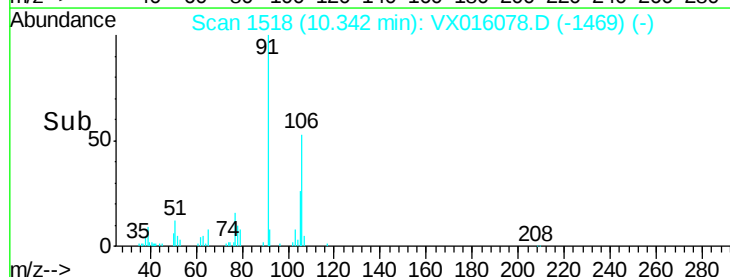
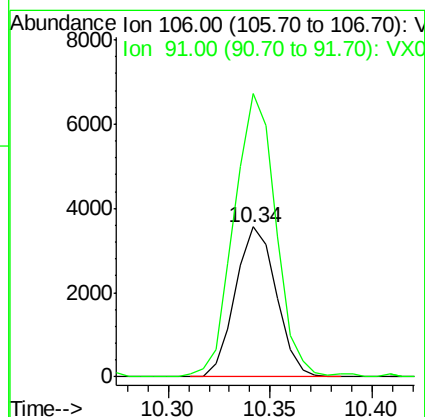
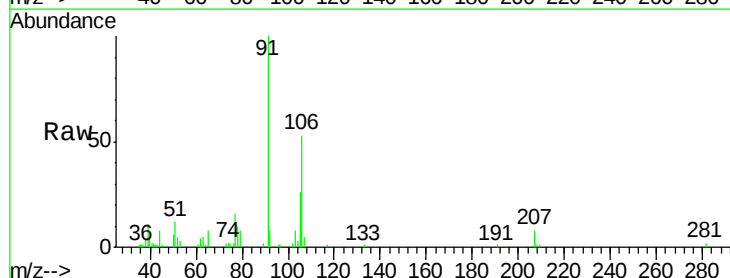
Acq: 06 May 2020 13:05

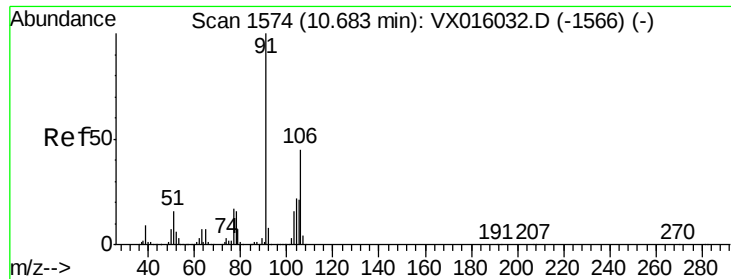
Tgt Ion: 106 Resp: 4950

Ion Ratio Lower Upper

106 100

91 194.3 161.7 242.5





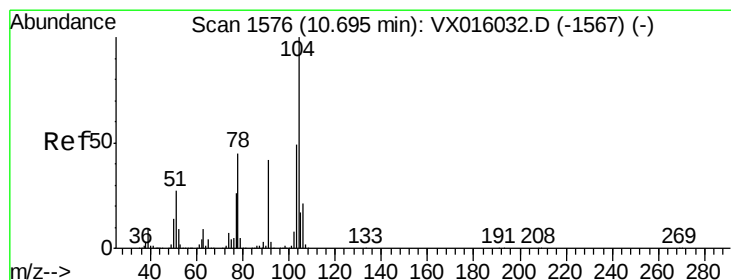
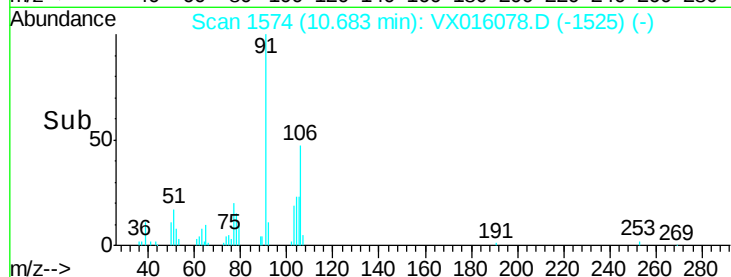
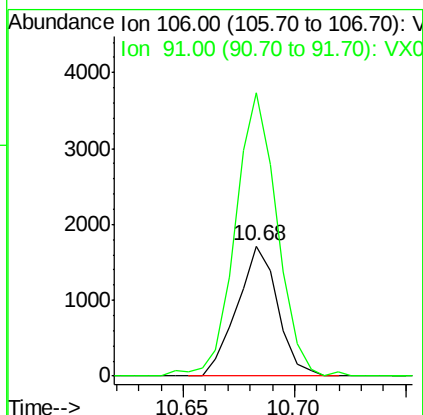
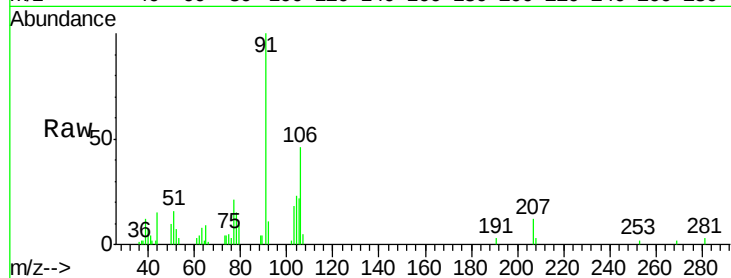
#69
o-Xylene
Concen: 0.375 ug/l
RT: 10.68 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VX016078.D
Acq: 06 May 2020 13:05

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
106	100		
91	224.9	107.5	322.6

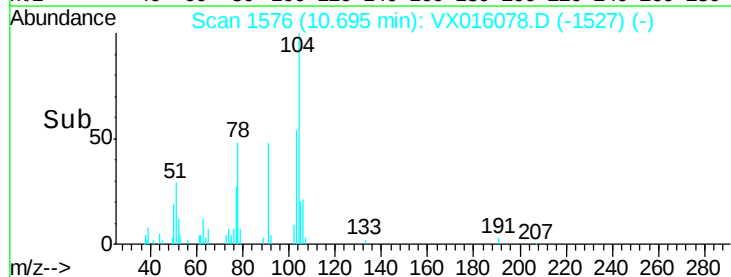
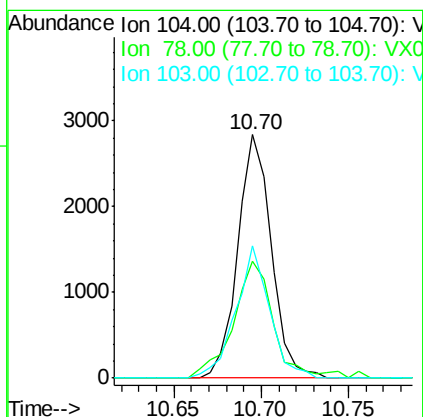
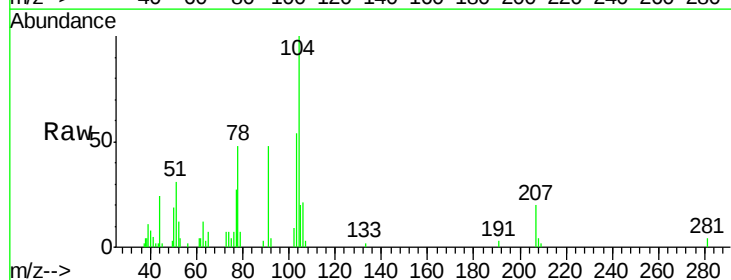
Manual Integrations
APPROVED

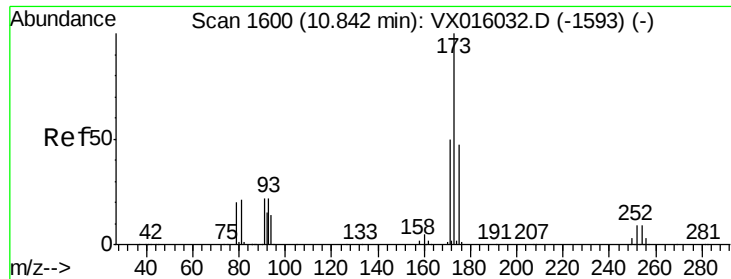
MMDadoda
5/8/2020 11:54:53 AM



#70
Styrene
Concen: 0.387 ug/l
RT: 10.70 min Scan# 1576
Delta R.T. -0.00 min
Lab File: VX016078.D
Acq: 06 May 2020 13:05

Tgt Ion	Ratio	Lower	Upper
104	100		
78	58.0	40.2	60.2
103	54.4	43.0	64.6





#71

Bromoform

Concen: 0.345 ug/l

RT: 10.84 min Scan# 1599

Delta R.T. -0.01 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Instrument :

MSVOA_X

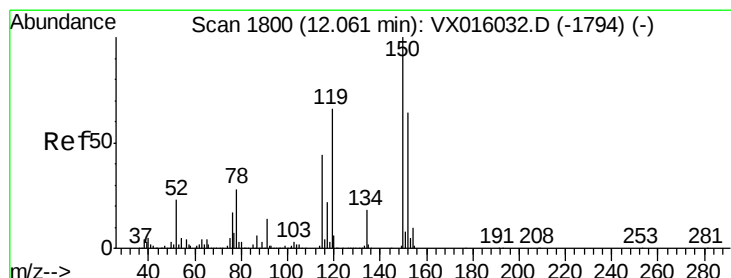
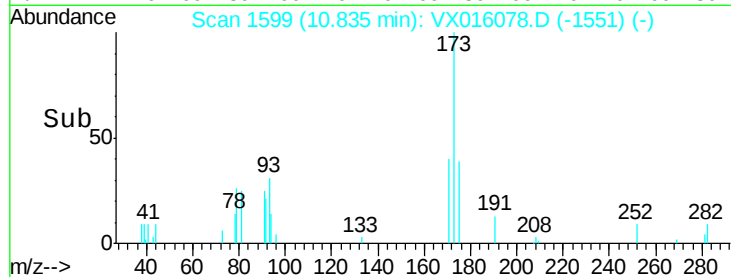
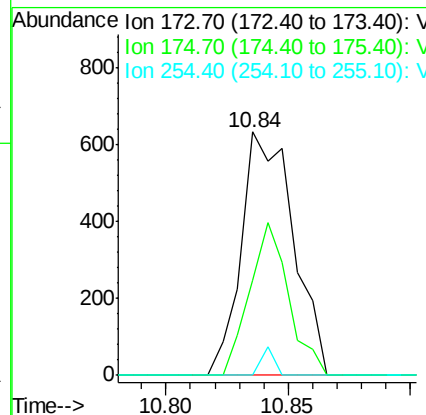
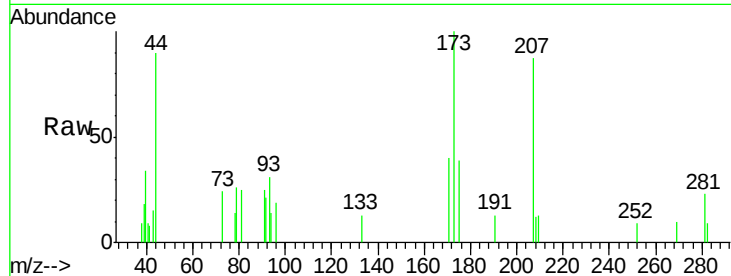
ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion:	173	Resp:	936
Ion Ratio	Lower	Upper	
173	100		
175	47.1	24.0	72.0
254	2.9	0.1	0.1#

Manual Integrations
APPROVED

MMDadoda
5/8/2020 11:54:53 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

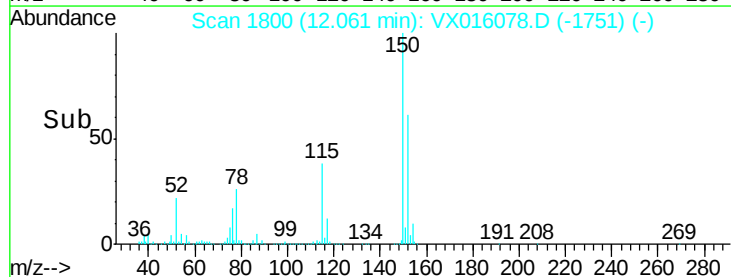
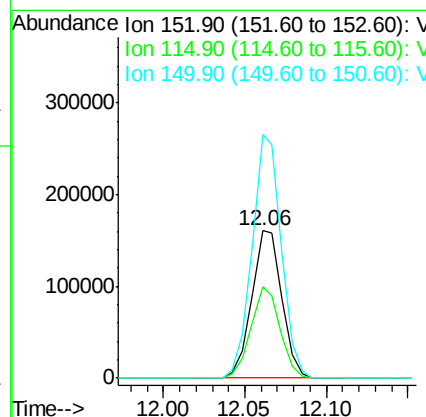
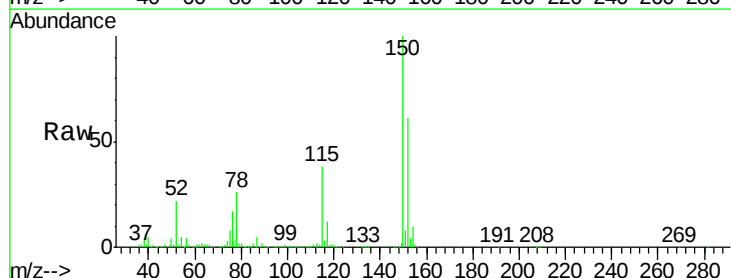
RT: 12.06 min Scan# 1800

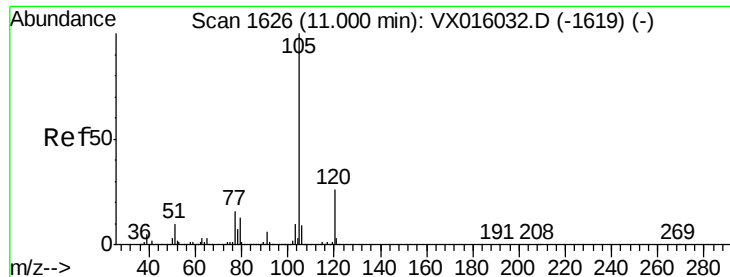
Delta R.T. -0.00 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Tgt Ion:	152	Resp:	206075
Ion Ratio	Lower	Upper	
152	100		
115	60.0	41.3	124.1
150	160.8	0.0	352.2





#73

Isopropylbenzene

Concen: 0.419 ug/l

RT: 11.00 min Scan# 1626

Delta R.T. -0.00 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion: 105 Resp: 6273

Ion Ratio Lower Upper

105 100

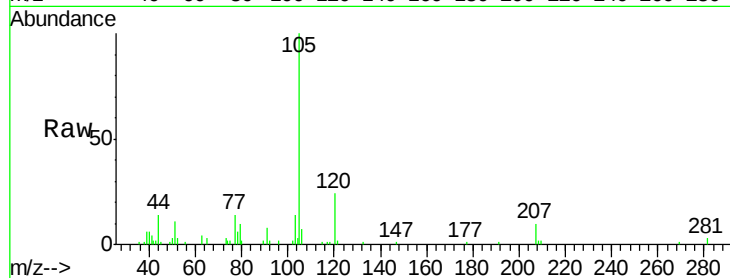
120 24.6 13.4 40.2

Manual Integrations

APPROVED

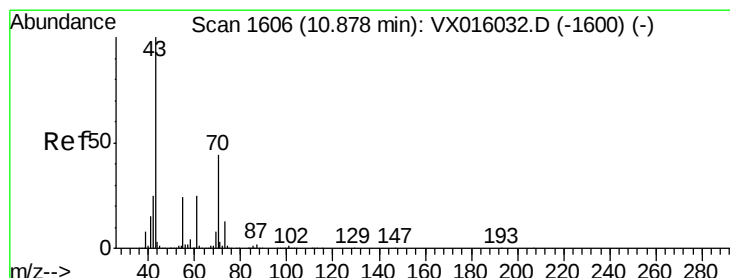
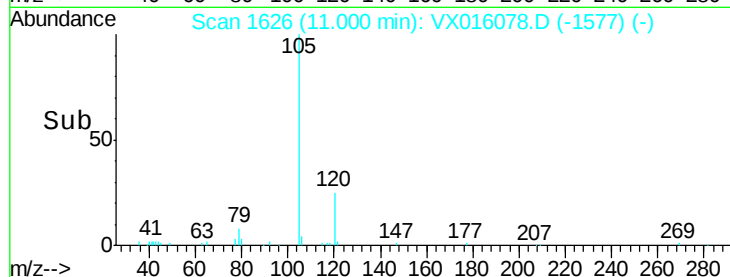
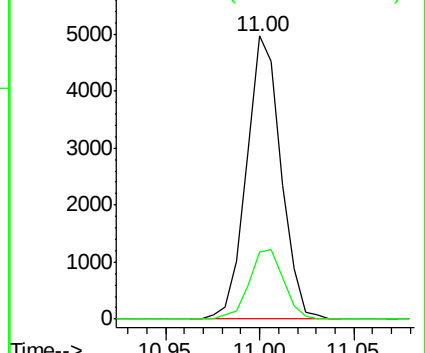
MMDadoda

5/8/2020 11:54:53 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 0.363 ug/l

RT: 10.88 min Scan# 1607

Delta R.T. 0.01 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Tgt Ion: 43 Resp: 2539

Ion Ratio Lower Upper

43 100

70 48.1 36.5 54.7

55 31.6 19.7 29.5#

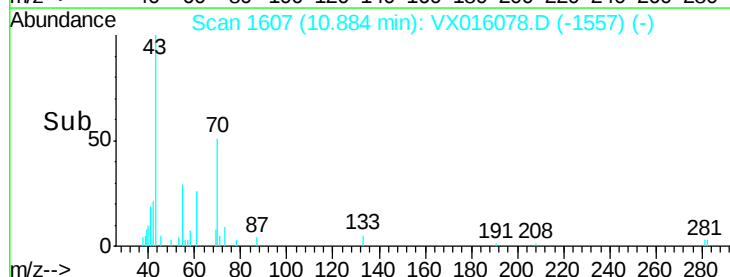
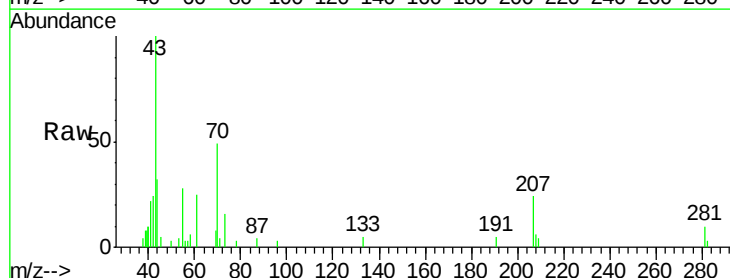
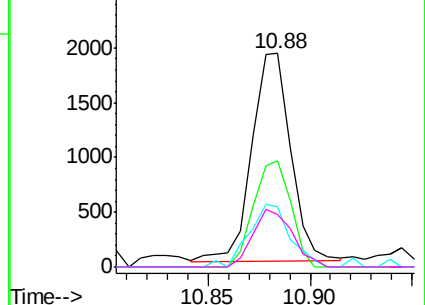
61 27.7 20.9 31.3

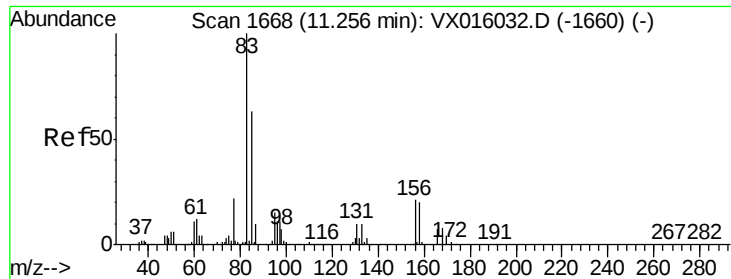
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#75

1,1,2,2-Tetrachloroethane

Concen: 0.387 ug/l

RT: 11.25 min Scan# 1667

Delta R.T. -0.01 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Instrument :

MSVOA_X

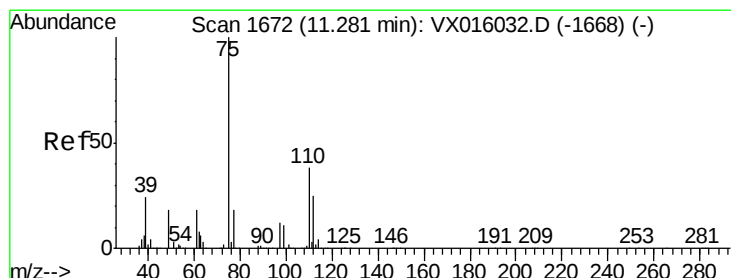
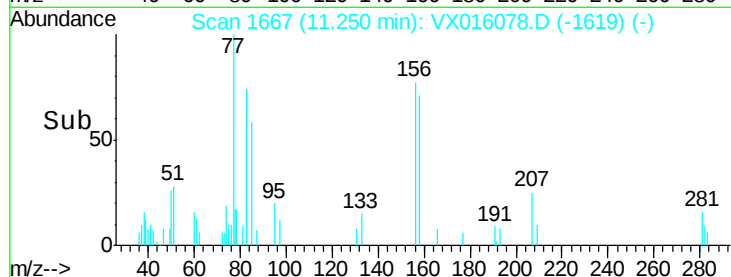
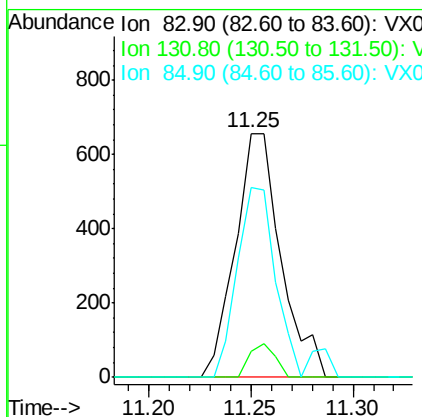
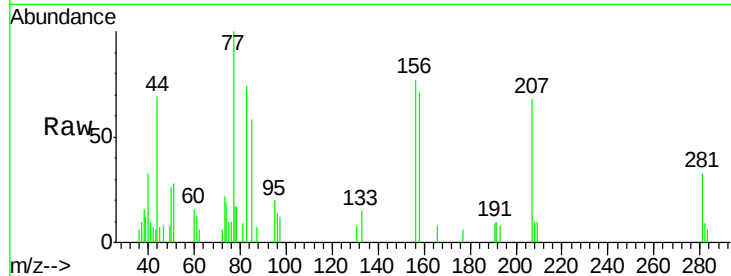
ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion:	83	Resp:	1023
Ion Ratio	Lower	Upper	
83	100		
131	7.6	5.1	15.4
85	64.6	32.0	96.0

Manual Integrations
APPROVED

MMDadoda
5/8/2020 11:54:53 AM



#76

1,2,3-Trichloropropane

Concen: 0.439 ug/l m

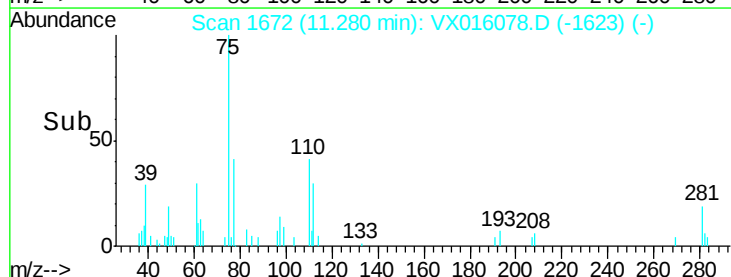
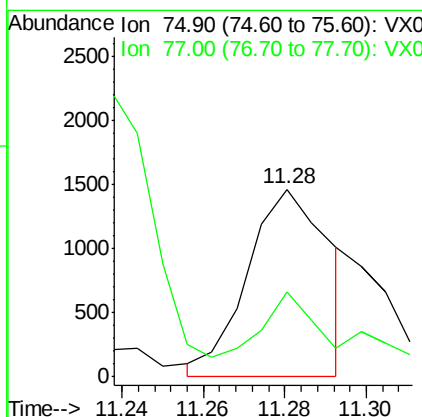
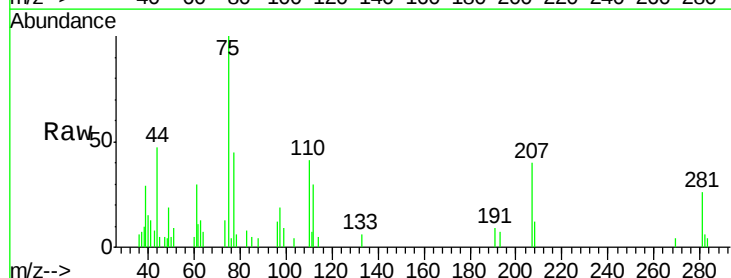
RT: 11.28 min Scan# 1672

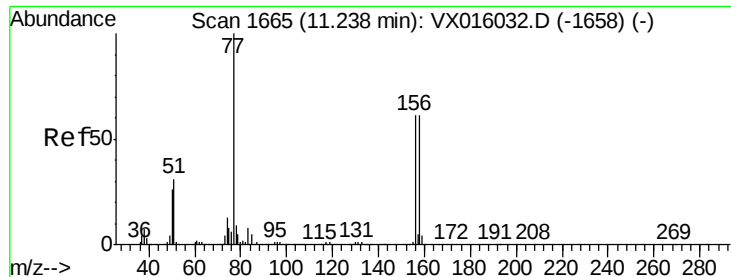
Delta R.T. -0.00 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Tgt Ion:	75	Resp:	2051
Ion Ratio	Lower	Upper	
75	100		
77	76.8	21.2	63.6#





#77

Bromobenzene

Concen: 0.460 ug/l

RT: 11.24 min Scan# 1665

Delta R.T. -0.00 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Instrument :

MSVOA_X

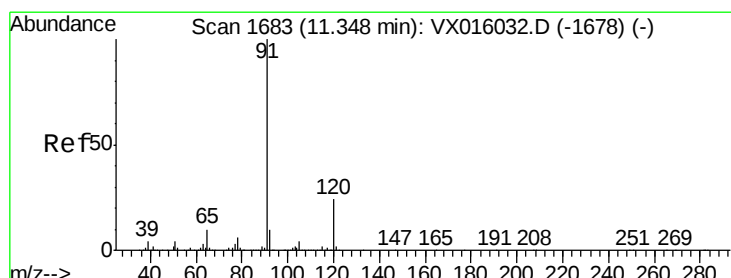
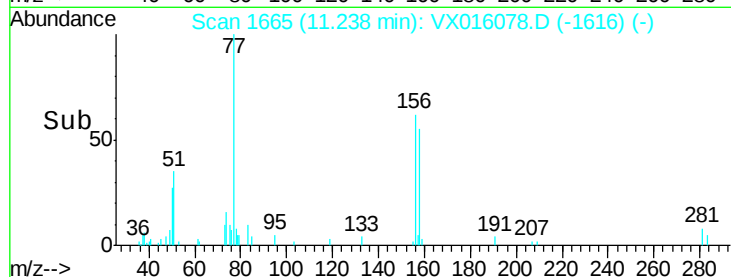
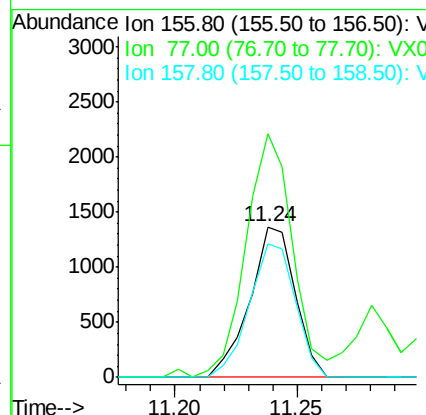
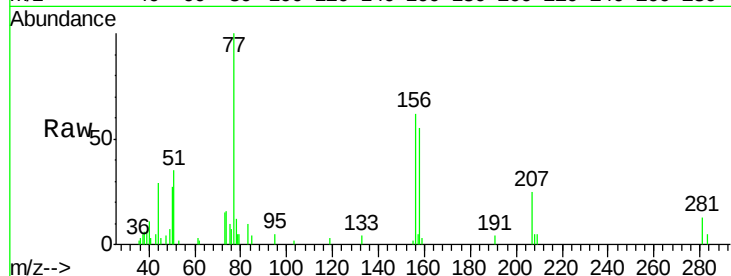
ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion:	156	Resp:	1779
Ion	Ratio	Lower	Upper
156	100		
77	166.2	80.1	240.3
158	89.7	49.4	148.2

Manual Integrations
APPROVED

MMDadoda
5/8/2020 11:54:53 AM



#78

n-propylbenzene

Concen: 0.425 ug/l

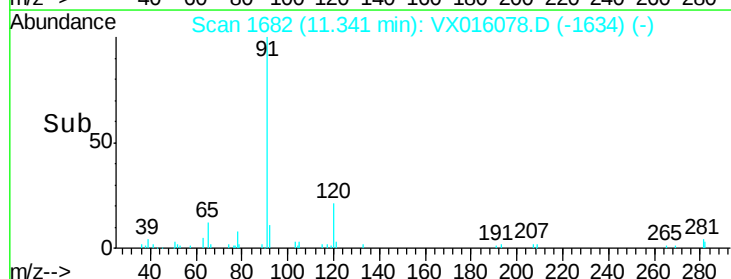
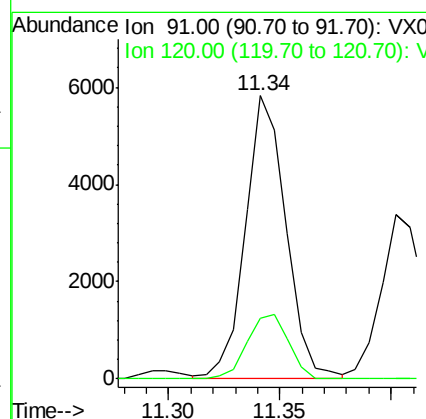
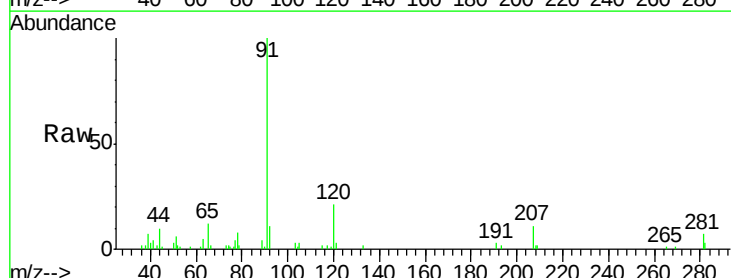
RT: 11.34 min Scan# 1682

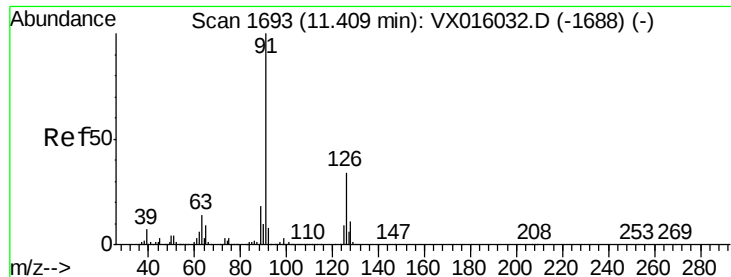
Delta R.T. -0.01 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Tgt Ion:	91	Resp:	7415
Ion	Ratio	Lower	Upper
91	100		
120	23.0	11.5	34.5





#79

2-Chlorotoluene

Concen: 0.444 ug/l

RT: 11.40 min Scan# 1692

Delta R.T. -0.01 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion: 91 Resp: 4573

Ion Ratio Lower Upper

91 100

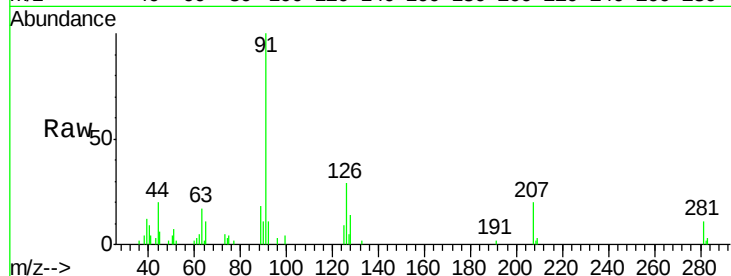
126 31.9 16.9 50.6

Manual Integrations

APPROVED

MMDadoda

5/8/2020 11:54:53 AM



Abundance Ion 91.00 (90.70 to 91.70): VX016078.D (-1644) (-)

Ion 125.90 (125.60 to 126.60): VX016078.D (-1644) (-)

6000

5000

4000

3000

2000

1000

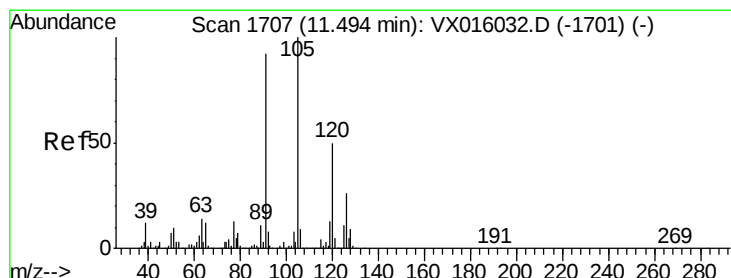
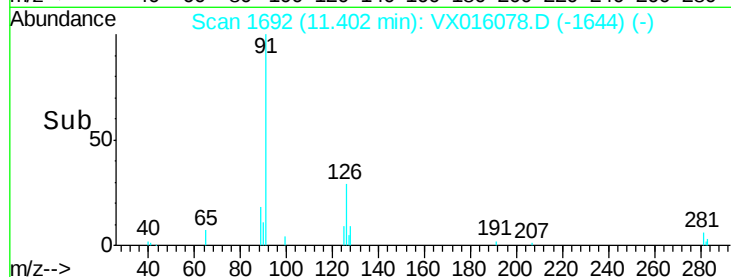
0

Time-->

11.35

11.40

11.45



#80

1,3,5-Trimethylbenzene

Concen: 0.392 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. -0.01 min

Lab File: VX016078.D

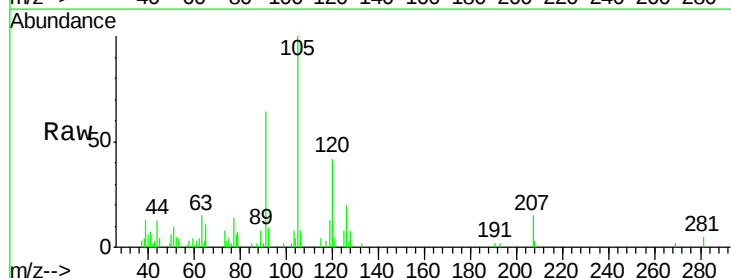
Acq: 06 May 2020 13:05

Tgt Ion: 105 Resp: 4966

Ion Ratio Lower Upper

105 100

120 50.2 24.6 74.0



Abundance Ion 105.00 (104.70 to 105.70): VX016078.D (-1658) (-)

Ion 120.00 (119.70 to 120.70): VX016078.D (-1658) (-)

4000

3000

2000

1000

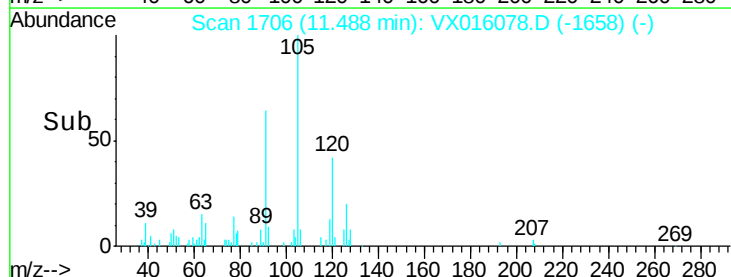
0

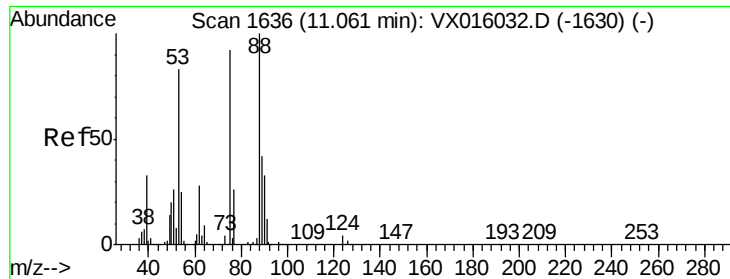
Time-->

11.45

11.50

11.55





#81

trans-1,4-Dichloro-2-butene

Concen: 0.420 ug/l m

RT: 11.06 min Scan# 1636

Delta R.T. -0.00 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Instrument :

MSVOA_X

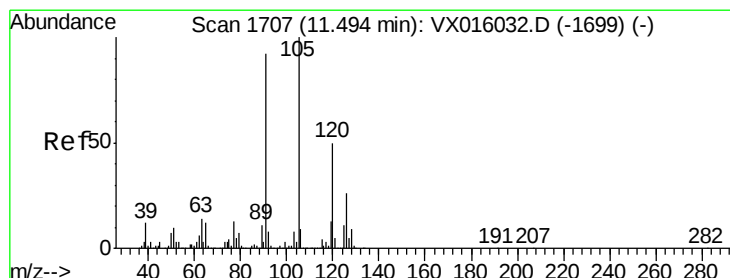
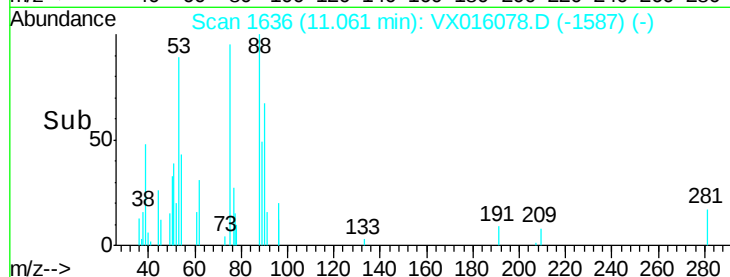
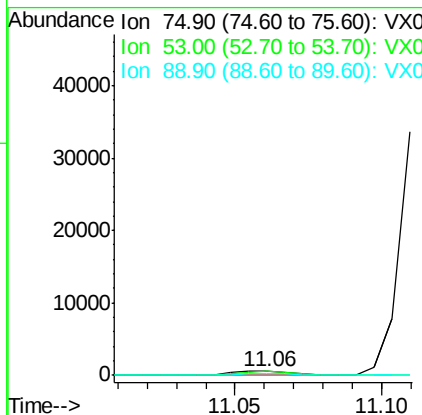
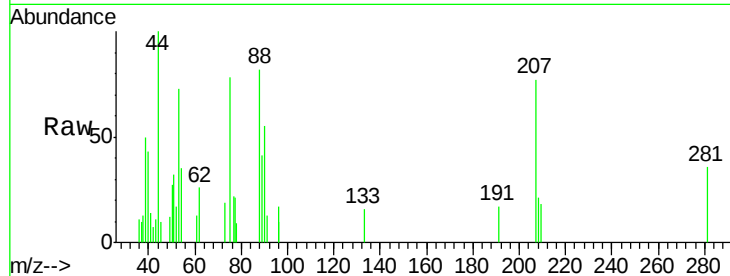
ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion:	75	Resp:	824
Ion	Ratio	Lower	Upper
75	100		
53	12.6	73.1	109.7#
89	0.0	36.7	55.1#

Manual Integrations
APPROVED

MMDadoda
5/8/2020 11:54:53 AM



#82

4-Chlorotoluene

Concen: 0.447 ug/l

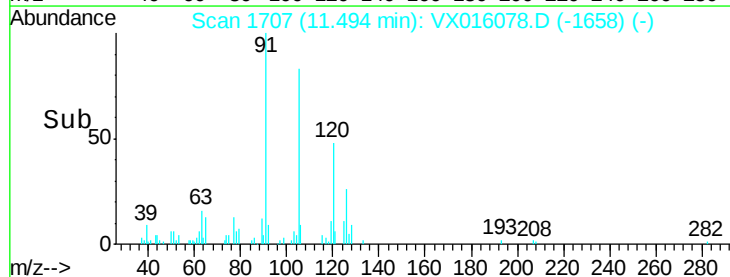
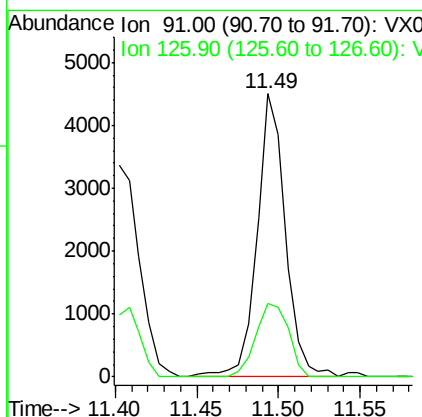
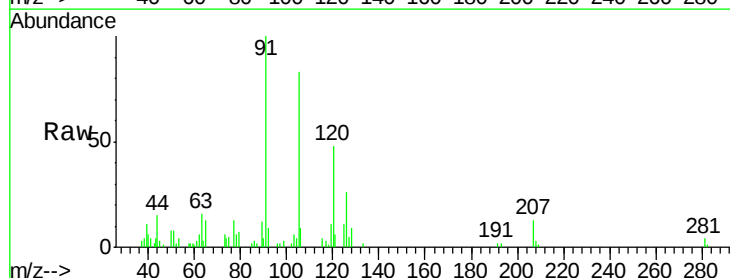
RT: 11.49 min Scan# 1707

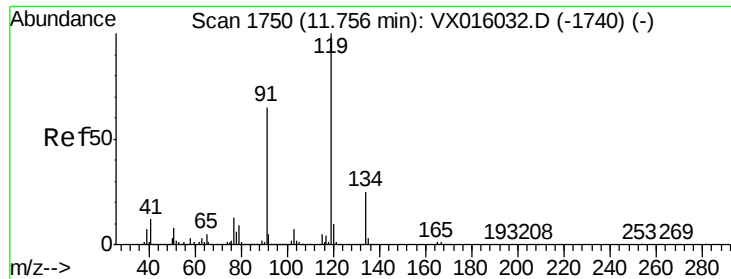
Delta R.T. -0.00 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Tgt Ion:	91	Resp:	5439
Ion	Ratio	Lower	Upper
91	100		
126	29.8	14.8	44.3





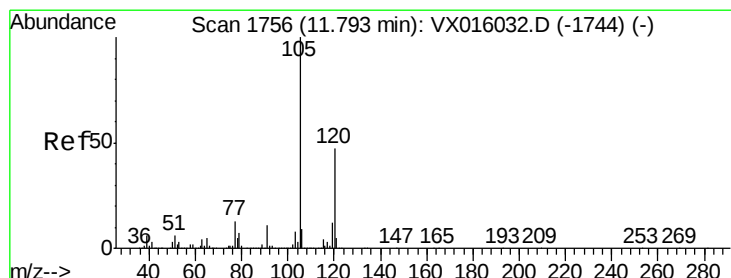
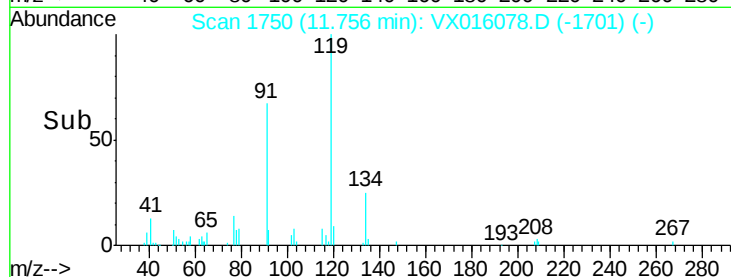
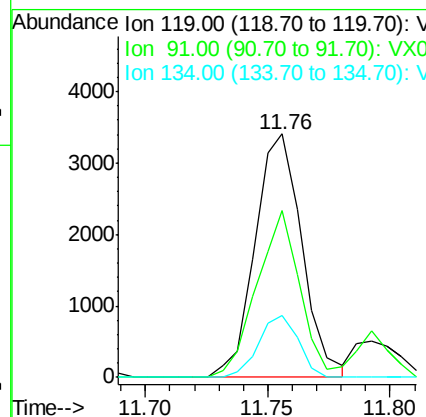
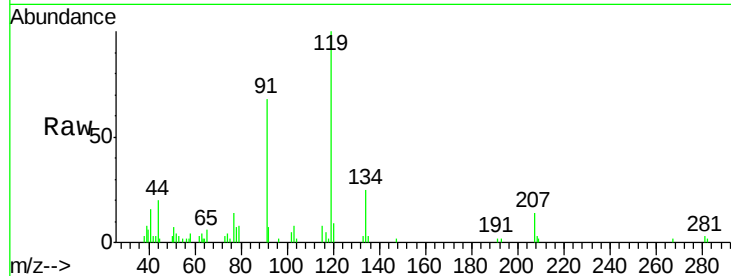
#83
tert-Butylbenzene
Concen: 0.418 ug/l
RT: 11.76 min Scan# 1750
Delta R.T. -0.00 min
Lab File: VX016078.D
Acq: 06 May 2020 13:05

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Resp	Lower	Upper
119	100	4562		
91	62.3		32.8	98.4
134	21.6		12.4	37.0

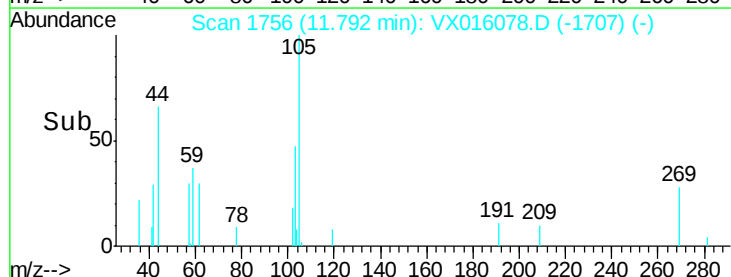
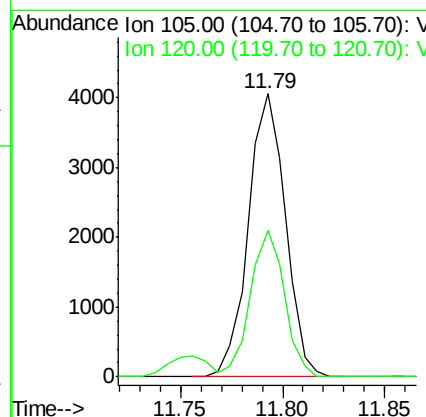
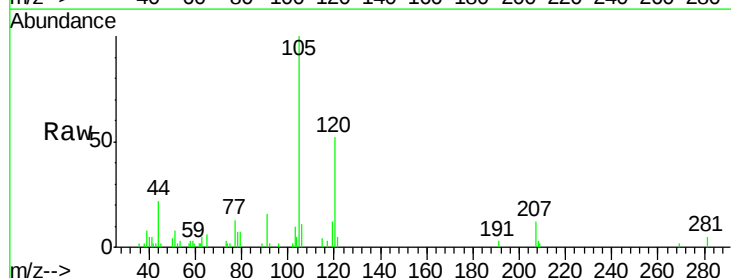
Manual Integrations
APPROVED

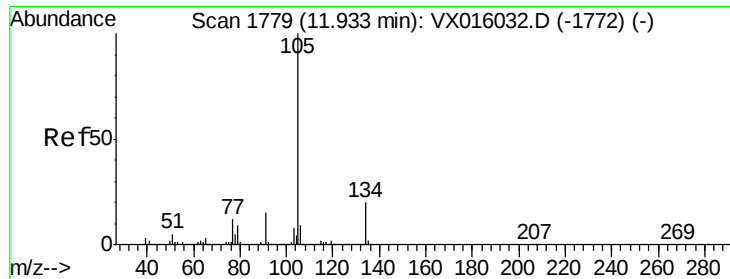
MMDadoda
5/8/2020 11:54:53 AM



#84
1,2,4-Trimethylbenzene
Concen: 0.400 ug/l
RT: 11.79 min Scan# 1756
Delta R.T. -0.00 min
Lab File: VX016078.D
Acq: 06 May 2020 13:05

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	5120		
120	47.8		23.0	69.0





#85

sec-Butylbenzene

Concen: 0.398 ug/l

RT: 11.93 min Scan# 1779

Delta R.T. -0.00 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion:105 Resp: 5860

Ion Ratio Lower Upper

105 100

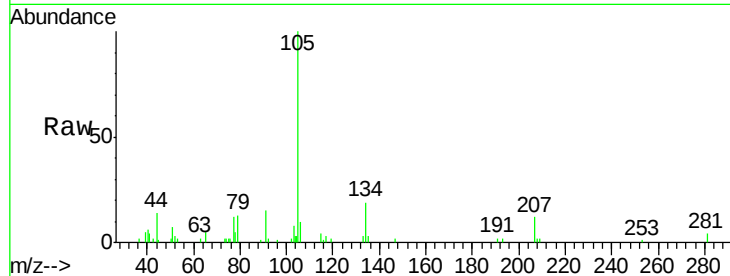
134 20.2 10.1 30.3

Manual Integrations

APPROVED

MMDadoda

5/8/2020 11:54:53 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

11.93

5000

4000

3000

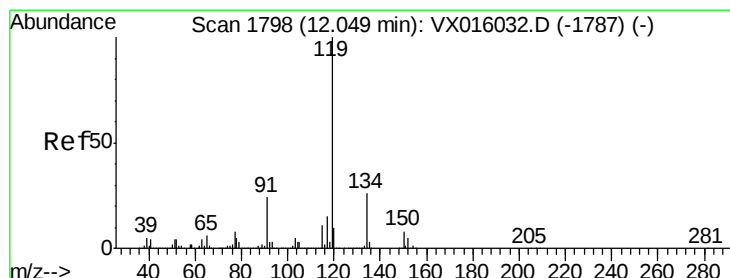
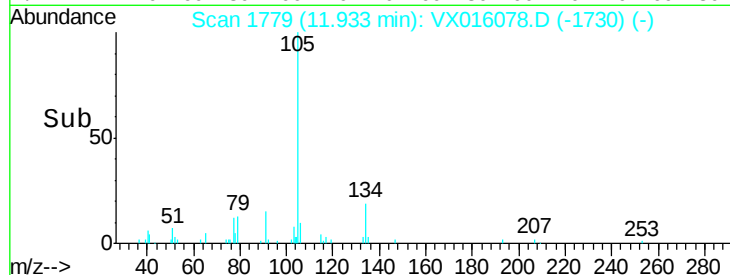
2000

1000

0

Time-->

11.90 11.95



#86

p-Isopropyltoluene

Concen: 0.414 ug/l

RT: 12.05 min Scan# 1798

Delta R.T. -0.00 min

Lab File: VX016078.D

Acq: 06 May 2020 13:05

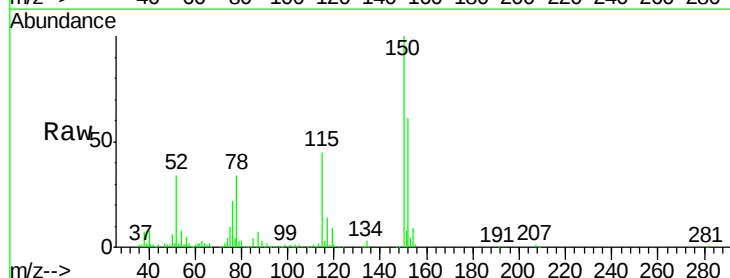
Tgt Ion:119 Resp: 5667

Ion Ratio Lower Upper

119 100

134 29.1 13.1 39.3

91 32.7 11.8 35.4



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

12.05

6000

5000

4000

3000

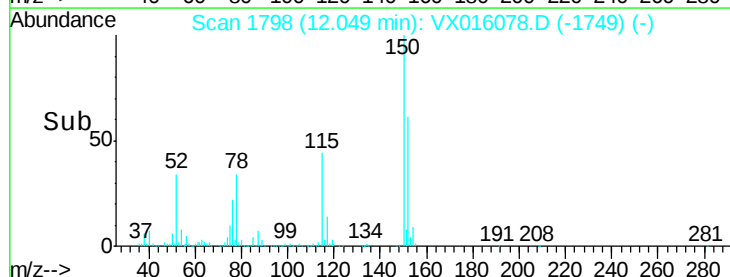
2000

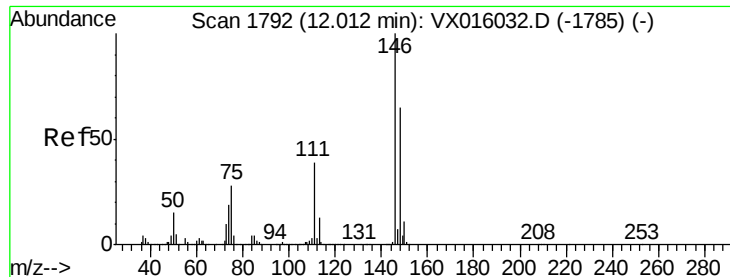
1000

0

Time-->

12.00 12.05 12.10





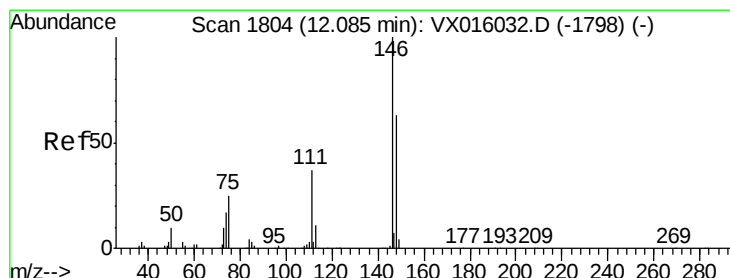
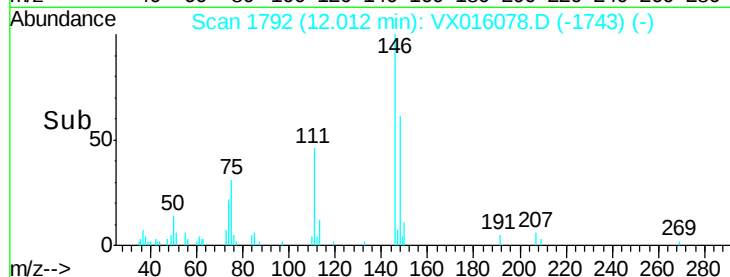
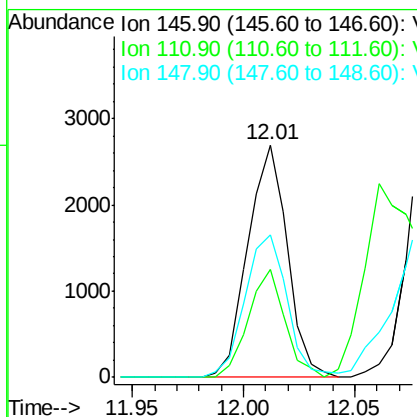
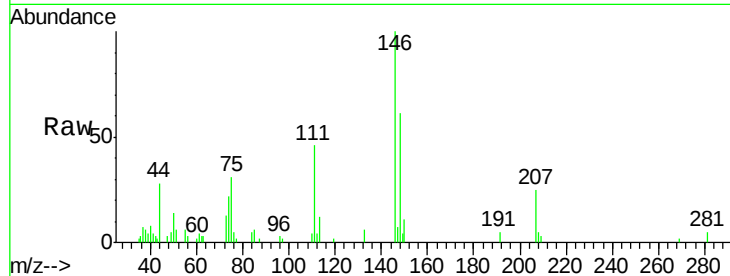
#87
 1,3-Dichlorobenzene
 Concen: 0.479 ug/l
 RT: 12.01 min Scan# 1792
 Delta R.T. -0.00 min
 Lab File: VX016078.D
 Acq: 06 May 2020 13:05

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.0	20.2	60.6
148	65.8	32.1	96.3

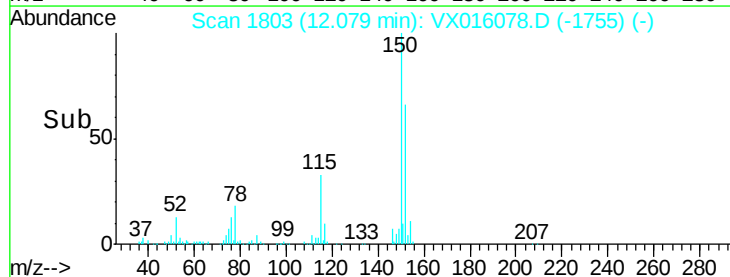
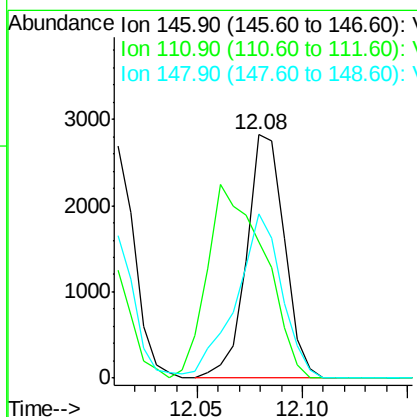
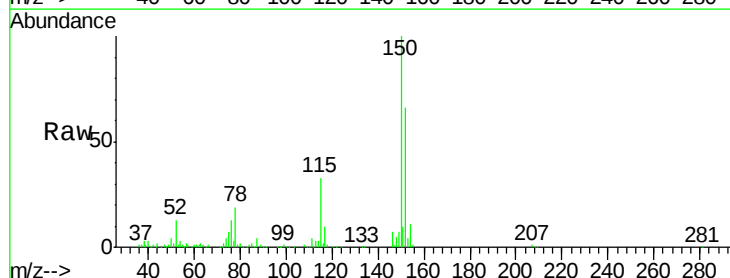
Manual Integrations
 APPROVED

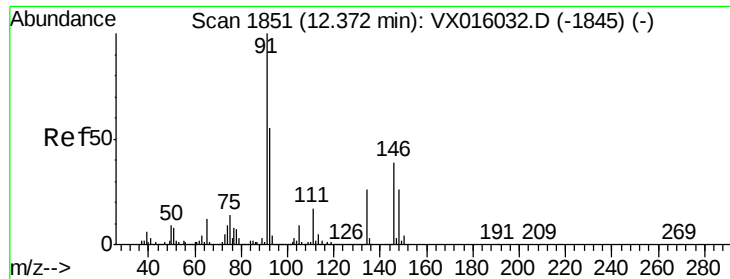
MMDadoda
 5/8/2020 11:54:53 AM



#88
 1,4-Dichlorobenzene
 Concen: 0.504 ug/l m
 RT: 12.08 min Scan# 1803
 Delta R.T. -0.01 min
 Lab File: VX016078.D
 Acq: 06 May 2020 13:05

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.3	19.6	58.7
148	61.6	31.8	95.3





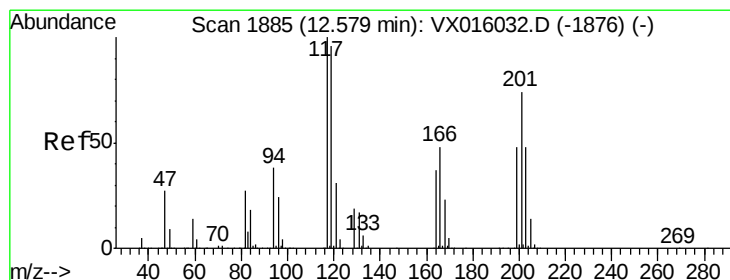
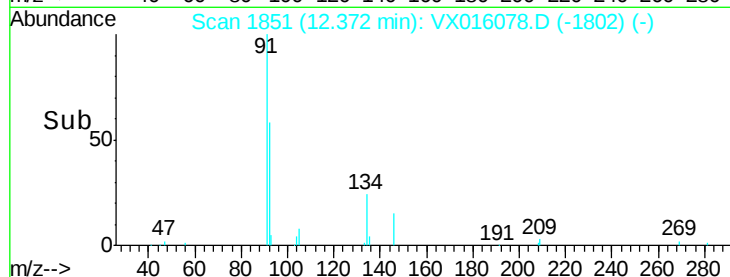
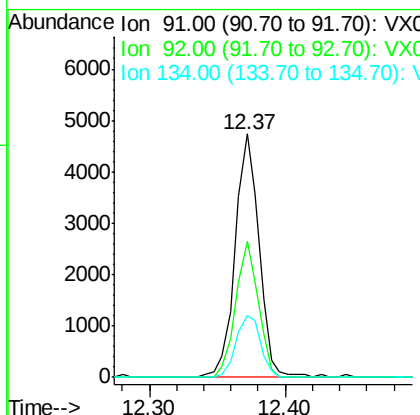
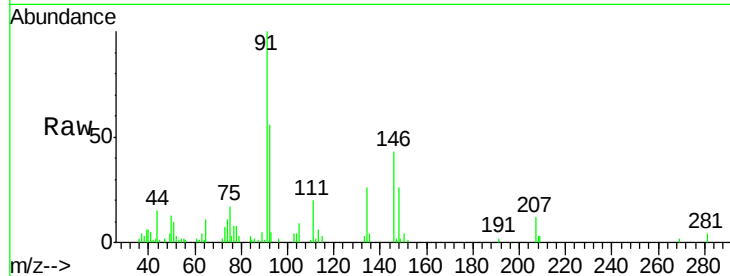
#89
n-Butylbenzene
Concen: 0.465 ug/l
RT: 12.37 min Scan# 1851
Delta R.T. -0.00 min
Lab File: VX016078.D
Acq: 06 May 2020 13:05

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.4	27.6	82.7
134	25.9	13.4	40.1

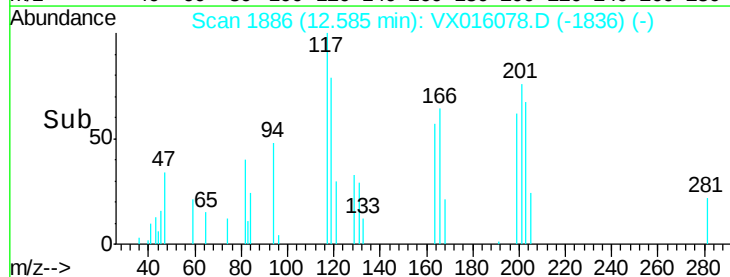
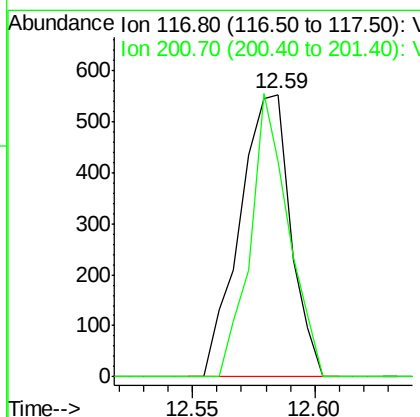
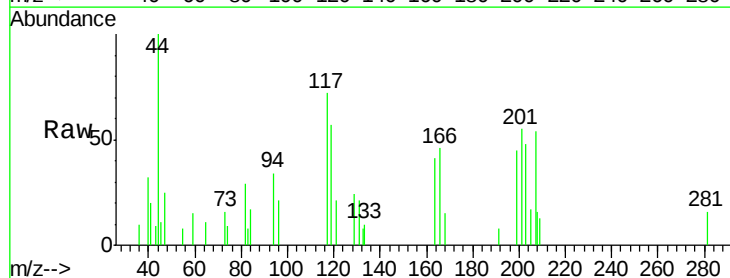
Manual Integrations
APPROVED

MMDadoda
5/8/2020 11:54:53 AM



#90
Hexachloroethane
Concen: 0.343 ug/l
RT: 12.59 min Scan# 1886
Delta R.T. 0.01 min
Lab File: VX016078.D
Acq: 06 May 2020 13:05

Tgt Ion	Ratio	Lower	Upper
117	100		
201	74.9	39.8	119.3





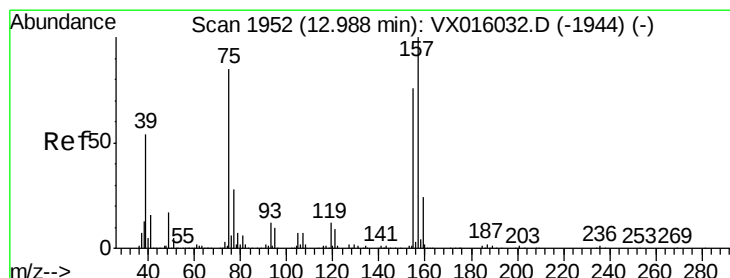
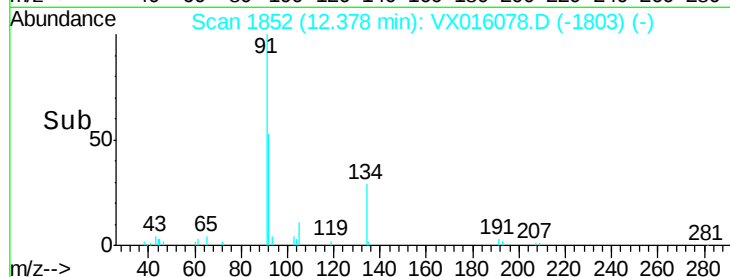
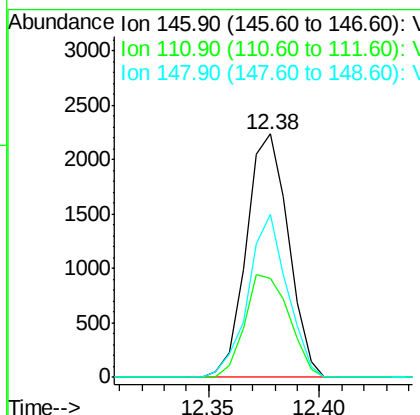
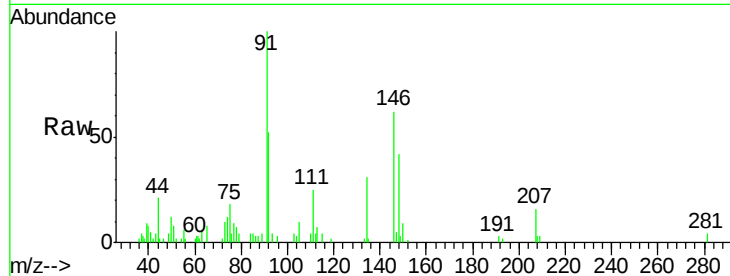
#91
 1,2-Dichlorobenzene
 Concen: 0.440 ug/l
 RT: 12.38 min Scan# 1852
 Delta R.T. -0.00 min
 Lab File: VX016078.D
 Acq: 06 May 2020 13:05

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.3	21.1	63.1
148	62.3	32.4	97.0

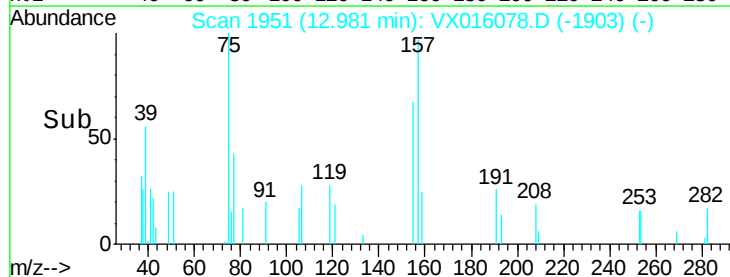
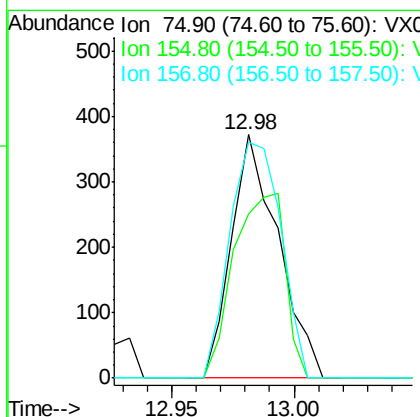
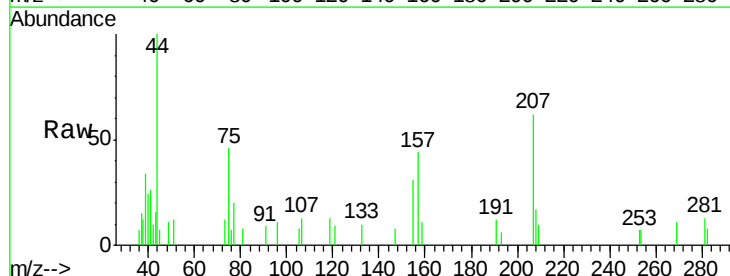
Manual Integrations
 APPROVED

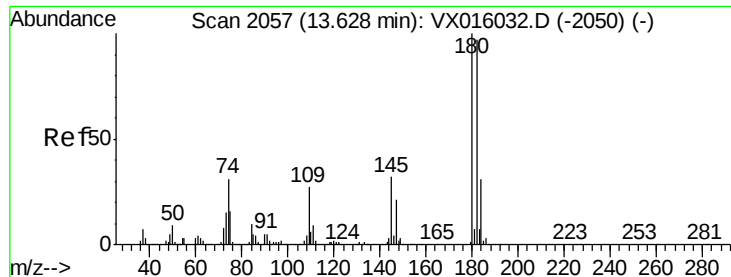
MMDadoda
 5/8/2020 11:54:53 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.402 ug/l
 RT: 12.98 min Scan# 1951
 Delta R.T. -0.01 min
 Lab File: VX016078.D
 Acq: 06 May 2020 13:05

Tgt Ion	Ratio	Lower	Upper
75	100		
155	83.3	42.5	127.5
157	106.0	55.3	165.8





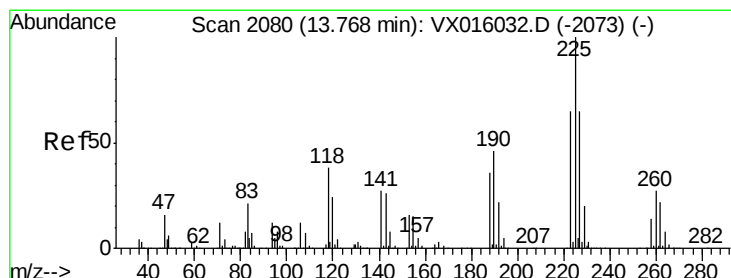
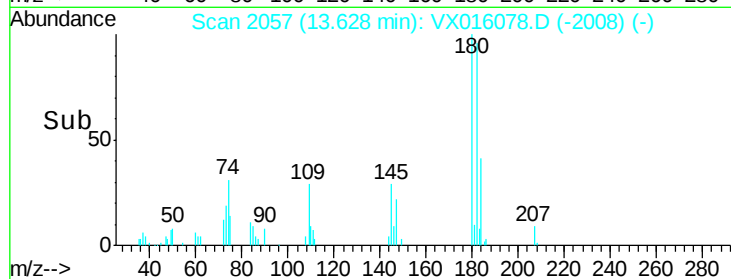
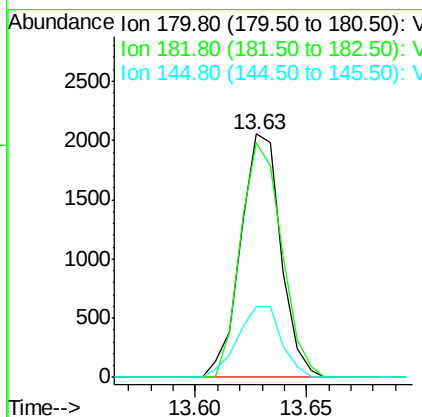
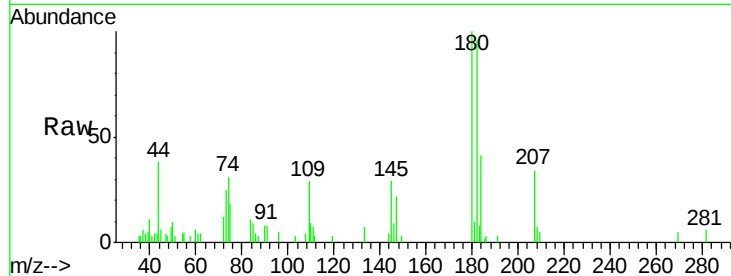
#93
 1,2,4-Trichlorobenzene
 Concen: 0.523 ug/l
 RT: 13.63 min Scan# 2057
 Delta R.T. -0.00 min
 Lab File: VX016078.D
 Acq: 06 May 2020 13:05

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT2-2020DL

Tot Ion:	180	Resp:	2588
Ion Ratio	Lower	Upper	
180	100		
182	98.3	48.7	146.1
145	31.7	15.7	47.1

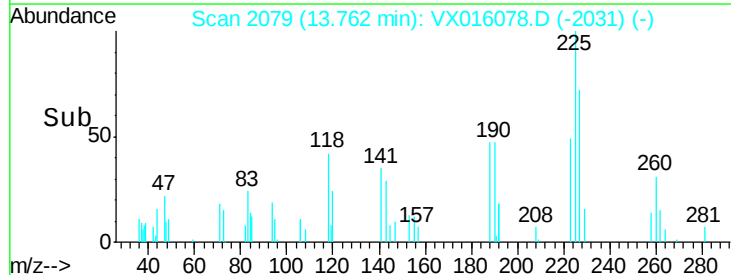
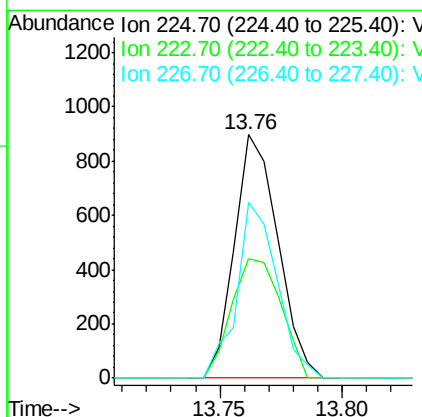
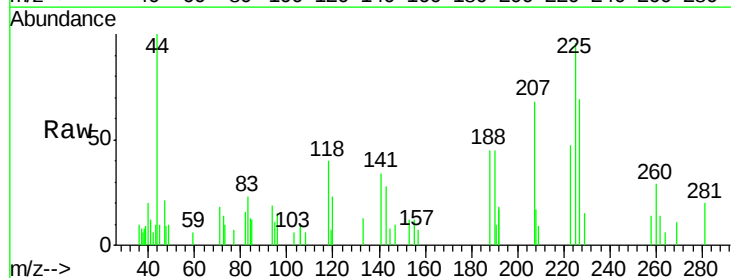
Manual Integrations
 APPROVED

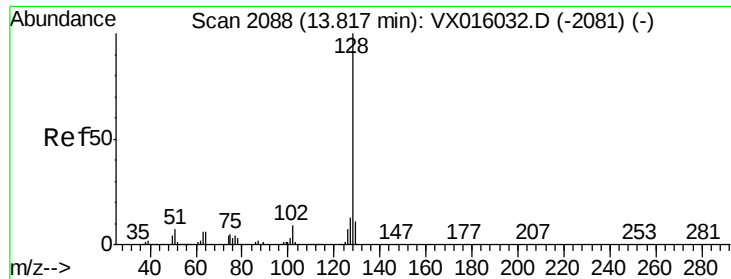
MMDadoda
 5/8/2020 11:54:53 AM



#94
 Hexachlorobutadiene
 Concen: 0.486 ug/l
 RT: 13.76 min Scan# 2079
 Delta R.T. -0.01 min
 Lab File: VX016078.D
 Acq: 06 May 2020 13:05

Tgt Ion:	225	Resp:	1112
Ion Ratio	Lower	Upper	
225	100		
223	55.9	32.3	96.9
227	66.9	31.8	95.4





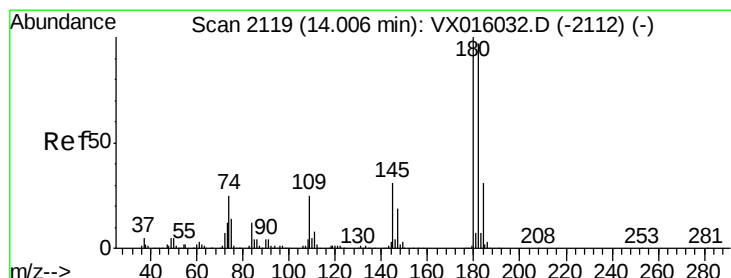
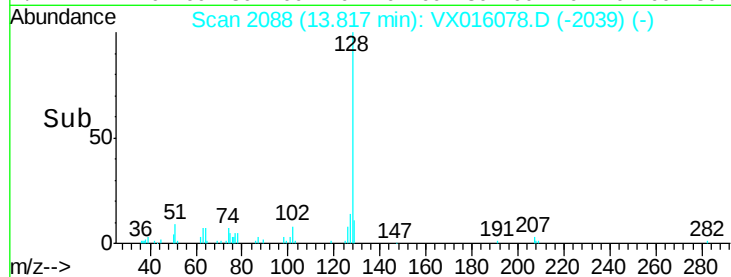
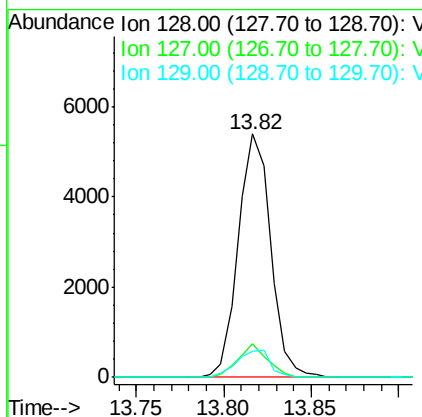
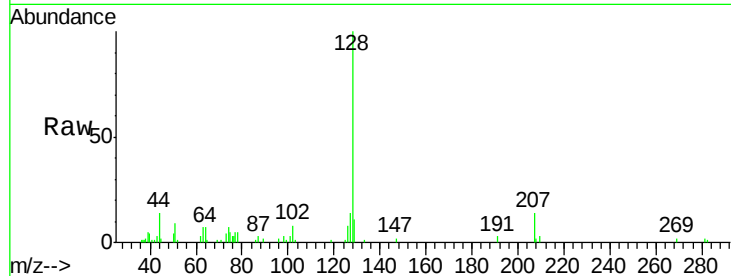
#95
Naphthalene
Concen: 0.435 ug/l
RT: 13.82 min Scan# 2088
Delta R.T. -0.00 min
Lab File: VX016078.D
Acq: 06 May 2020 13:05

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.2	15.4
129	11.4	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
5/8/2020 11:54:53 AM



#96
1,2,3-Trichlorobenzene
Concen: 0.527 ug/l
RT: 14.01 min Scan# 2119
Delta R.T. -0.00 min
Lab File: VX016078.D
Acq: 06 May 2020 13:05

Tgt Ion	Ratio	Lower	Upper
180	100		
182	86.1	48.4	145.0
145	28.9	16.4	49.1

