

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX101519\
 Data File : VX013076.D
 Acq On : 15 Oct 2019 14:30
 Operator : JC/SP
 Sample : K5111-09 0.75PPB MDL
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 10/16/2019 9:57:31 AM

Quant Time: Oct 16 07:18:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 07:02:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	161863	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	273854	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	241178	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	105403	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.05	65	103750	51.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.56%	
35) Dibromofluoromethane	5.49	113	80961	51.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.02%	
50) Toluene-d8	8.71	98	301740	49.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.44%	
62) 4-Bromofluorobenzene	11.14	95	109977	46.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.34%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.19	85	1107	0.671 ug/l	85
3) Chloromethane	1.32	50	1184	0.659 ug/l	93
4) Vinyl Chloride	1.40	62	1226	0.662 ug/l	89
5) Bromomethane	1.63	94	1172	1.521 ug/l	91
6) Chloroethane	1.72	64	3430	3.144 ug/l	94
7) Trichlorofluoromethane	1.92	101	1710	0.684 ug/l	99
8) Diethyl Ether	2.19	74	756	0.749 ug/l	92
9) 1,1,2-Trichlorotrifluoroet	2.37	101	1204	0.744 ug/l	96
10) Methyl Iodide	2.51	142	1029	0.646 ug/l #	88
11) Tert butyl alcohol	3.02	59	3934	7.335 ug/l #	77
12) 1,1-Dichloroethene	2.37	96	1021	0.624 ug/l	82
13) Acrolein	2.28	56	1087	2.852 ug/l	94
14) Allyl chloride	2.72	41	1799	0.618 ug/l	92
15) Acrylonitrile	3.14	53	3549	3.492 ug/l	90
16) Acetone	2.44	43	3638	3.412 ug/l	94
17) Carbon Disulfide	2.56	76	2951	0.633 ug/l #	93
18) Methyl Acetate	2.76	43	1782	0.705 ug/l	91
19) Methyl tert-butyl Ether	3.19	73	3891	0.689 ug/l #	88
20) Methylene Chloride	2.85	84	1534	0.783 ug/l #	91
21) trans-1,2-Dichloroethene	3.16	96	1317	0.751 ug/l	88
22) Diisopropyl ether	3.85	45	3711	0.665 ug/l #	85
23) Vinyl Acetate	3.81	43	13780	2.860 ug/l	95
24) 1,1-Dichloroethane	3.69	63	2263	0.721 ug/l #	92
25) 2-Butanone	4.68	43	4709	3.183 ug/l #	77
26) 2,2-Dichloropropane	4.57	77	1614	0.611 ug/l	98
27) cis-1,2-Dichloroethene	4.58	96	1347	0.667 ug/l	63
28) Bromochloromethane	5.01	49	656	0.729 ug/l #	96
29) Tetrahydrofuran	5.14	42	3102	3.407 ug/l #	86
30) Chloroform	5.22	83	2479	0.769 ug/l #	82
31) Cyclohexane	5.57	56	2220	0.756 ug/l #	93
32) 1,1,1-Trichloroethane	5.49	97	1752	0.642 ug/l #	44
36) 1,1-Dichloropropene	5.78	75	1662	0.690 ug/l #	86
37) Ethyl Acetate	4.83	43	1684	0.625 ug/l #	85
38) Carbon Tetrachloride	5.77	117	1612	0.688 ug/l #	71

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.45	83	1908	0.653	ug/l	98
40) Benzene	6.13	78	5193	0.730	ug/l	92
41) Methacrylonitrile	5.04	41	918	0.621	ug/l #	43
42) 1,2-Dichloroethane	6.18	62	1834	0.719	ug/l	79
43) Isopropyl Acetate	6.43	43	2677	0.619	ug/l #	89
44) Trichloroethene	7.20	130	1360	0.690	ug/l	86
45) 1,2-Dichloropropane	7.51	63	1251	0.690	ug/l #	72
46) Dibromomethane	7.66	93	802	0.664	ug/l #	75
47) Bromodichloromethane	7.89	83	1588	0.674	ug/l	94
48) Methyl methacrylate	7.77	41	1212	0.576	ug/l	89
49) 1,4-Dioxane	7.75	88	684	13.435	ug/l	91
51) 4-Methyl-2-Pentanone	8.64	43	8144	3.023	ug/l	99
52) Toluene	8.78	92	3297	0.725	ug/l	94
53) t-1,3-Dichloropropene	9.04	75	1563	0.599	ug/l	96
54) cis-1,3-Dichloropropene	8.43	75	1680	0.580	ug/l	97
55) 1,1,2-Trichloroethane	9.21	97	1352	0.751	ug/l #	88
56) Ethyl methacrylate	9.17	69	1594	0.547	ug/l #	87
57) 1,3-Dichloropropane	9.37	76	2007	0.644	ug/l #	86
58) 2-Chloroethyl Vinyl ether	8.31	63	3533	2.671	ug/l	92
59) 2-Hexanone	9.49	43	6157	2.936	ug/l	94
60) Dibromochloromethane	9.58	129	1010	0.572	ug/l	90
61) 1,2-Dibromoethane	9.67	107	1196	0.631	ug/l	90
64) Tetrachloroethene	9.33	164	1374	0.821	ug/l #	92
65) Chlorobenzene	10.14	112	3371	0.704	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.22	131	945	0.569	ug/l #	63
67) Ethyl Benzene	10.25	91	5588	0.657	ug/l	99
68) m/p-Xylenes	10.35	106	3708	1.167	ug/l	92
69) o-Xylene	10.70	106	2119	0.684	ug/l	99
70) Styrene	10.71	104	3036	0.576	ug/l	96
71) Bromoform	10.85	173	537	0.449	ug/l #	98
73) Isopropylbenzene	11.01	105	5452	0.704	ug/l	97
74) N-amyl acetate	10.90	43	1633	0.489	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.26	83	1823	0.707	ug/l	94
76) 1,2,3-Trichloropropane	11.29	75	1684m	0.720	ug/l	
77) Bromobenzene	11.25	156	1305	0.715	ug/l	98
78) n-propylbenzene	11.35	91	5655	0.663	ug/l	100
79) 2-Chlorotoluene	11.42	91	4025	0.751	ug/l	93
80) 1,3,5-Trimethylbenzene	11.50	105	4192	0.648	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.07	75	462m	0.559	ug/l	
82) 4-Chlorotoluene	11.51	91	4175	0.680	ug/l	100
83) tert-Butylbenzene	11.77	119	4003	0.634	ug/l	88
84) 1,2,4-Trimethylbenzene	11.81	105	4030	0.615	ug/l	98
85) sec-Butylbenzene	11.94	105	4612	0.631	ug/l	100
86) p-Isopropyltoluene	12.06	119	4105	0.605	ug/l	92
87) 1,3-Dichlorobenzene	12.03	146	2423	0.715	ug/l	97
88) 1,4-Dichlorobenzene	12.09	146	2736m	0.797	ug/l	
89) n-Butylbenzene	12.39	91	3288	0.577	ug/l	97
90) Hexachloroethane	12.59	117	635	0.578	ug/l	100
91) 1,2-Dichlorobenzene	12.39	146	2528	0.760	ug/l	92
92) 1,2-Dibromo-3-Chloropropan	12.99	75	323	0.535	ug/l	88

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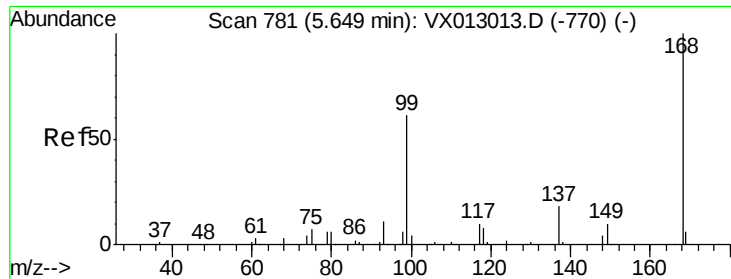
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.64	180	1285	0.617	ug/l	95
94) Hexachlorobutadiene	13.78	225	471	0.490	ug/l	71
95) Naphthalene	13.83	128	3981	0.551	ug/l	97
96) 1,2,3-Trichlorobenzene	14.02	180	1317	0.612	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

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

Tot Ion:168 Resp: 161863

Ion Ratio Lower Upper

168 100

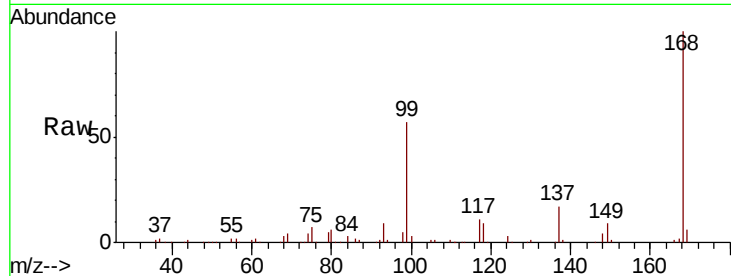
99 57.4 49.4 74.0

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

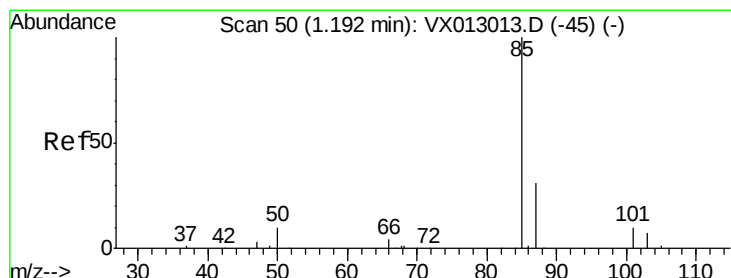
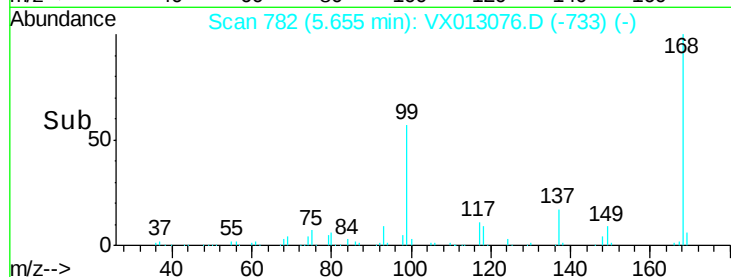
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.671 ug/l

RT: 1.19 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX013076.D

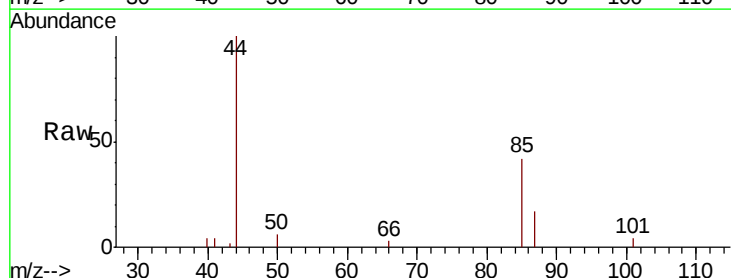
Acq: 15 Oct 2019 14:30

Tgt Ion: 85 Resp: 1107

Ion Ratio Lower Upper

85 100

87 41.4 16.4 49.4



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

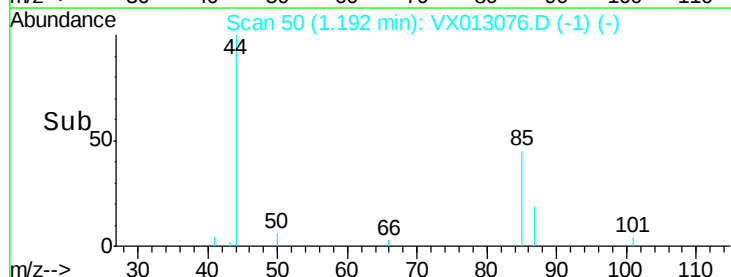
1.19

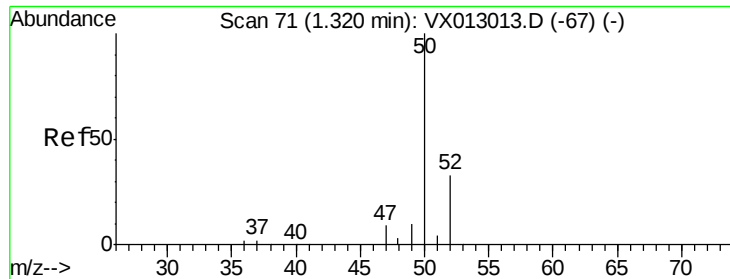
1000

500

0

Time--> 1.15 1.20 1.25





#3

Chloromethane

Concen: 0.659 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

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

Tot Ion: 50 Resp: 1184

Ion Ratio Lower Upper

50 100

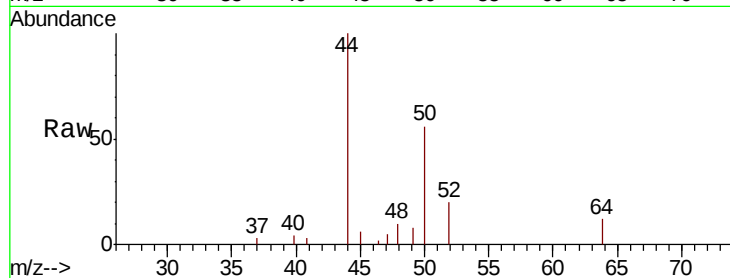
52 35.1 25.2 37.8

Manual Integrations

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Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

1500

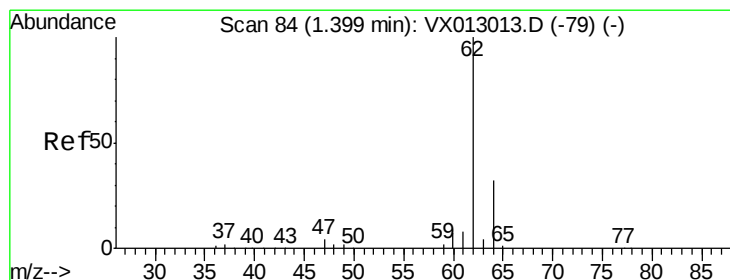
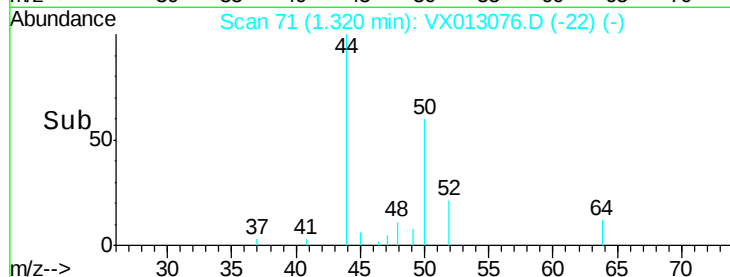
1000

500

0

1.30 1.35

Time-->



#4

Vinyl Chloride

Concen: 0.662 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX013076.D

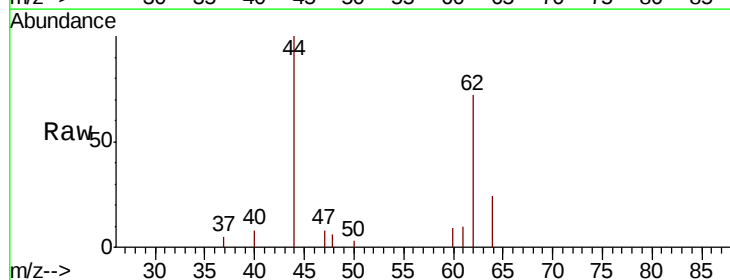
Acq: 15 Oct 2019 14:30

Tgt Ion: 62 Resp: 1226

Ion Ratio Lower Upper

62 100

64 25.6 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

1500

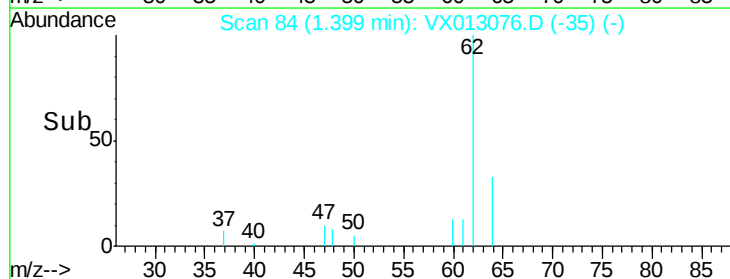
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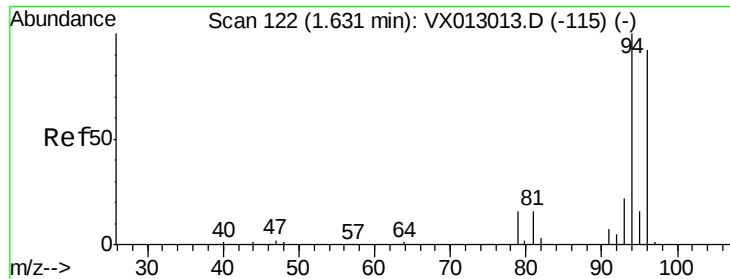
500

0

1.35 1.40 1.45

Time-->





#5

Bromomethane

Concen: 1.521 ug/l

RT: 1.63 min Scan# 122

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

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

Tot Ion: 94 Resp: 1172

Ion Ratio Lower Upper

94 100

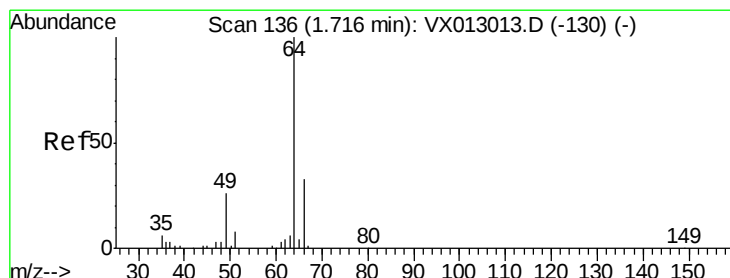
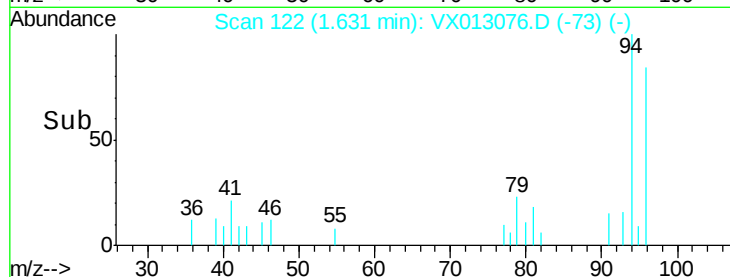
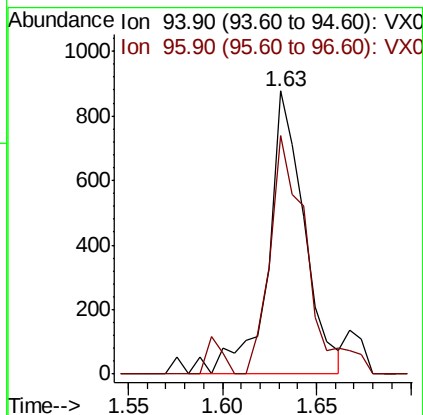
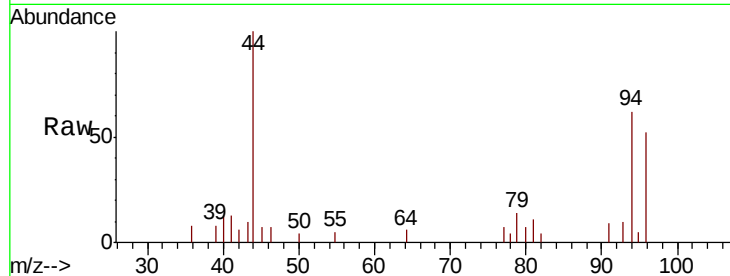
96 84.5 74.7 112.1

Manual Integrations

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10/16/2019 9:57:31 AM



#6

Chloroethane

Concen: 3.144 ug/l

RT: 1.72 min Scan# 136

Delta R.T. 0.01 min

Lab File: VX013076.D

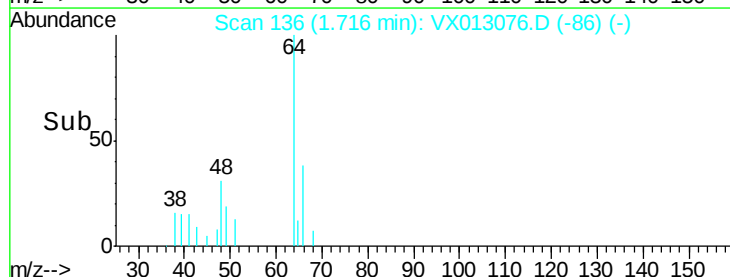
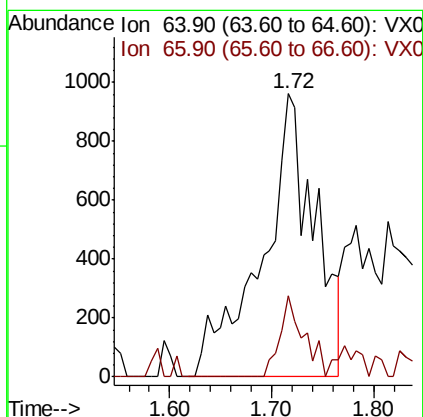
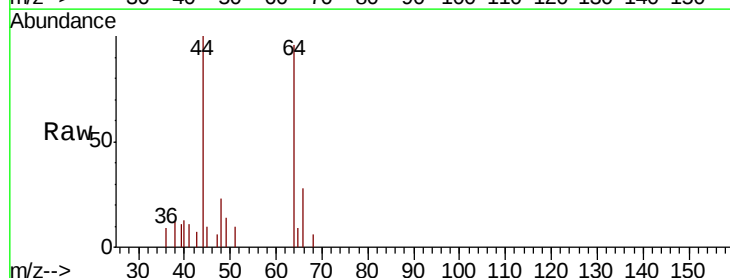
Acq: 15 Oct 2019 14:30

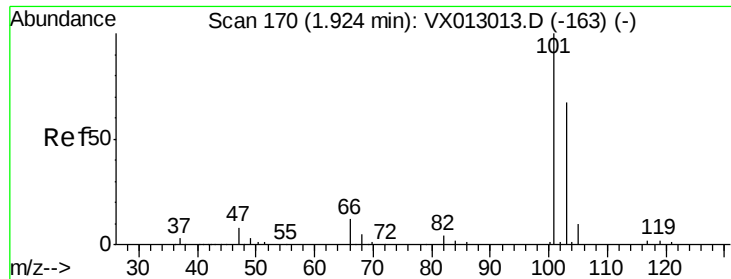
Tgt Ion: 64 Resp: 3430

Ion Ratio Lower Upper

64 100

66 28.8 25.6 38.4





#7

Trichlorofluoromethane

Concen: 0.684 ug/l

RT: 1.92 min Scan# 170

Delta R.T. 0.01 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

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ClientSampleId :

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

Tot Ion:101 Resp: 1710

Ion Ratio Lower Upper

101 100

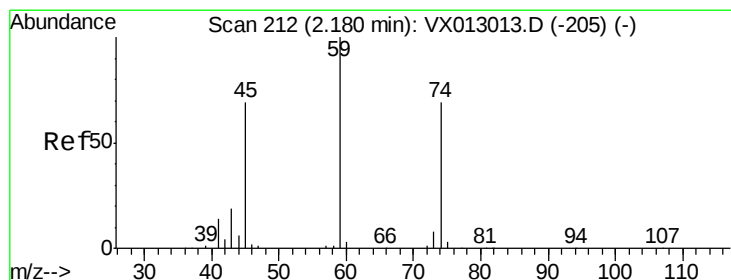
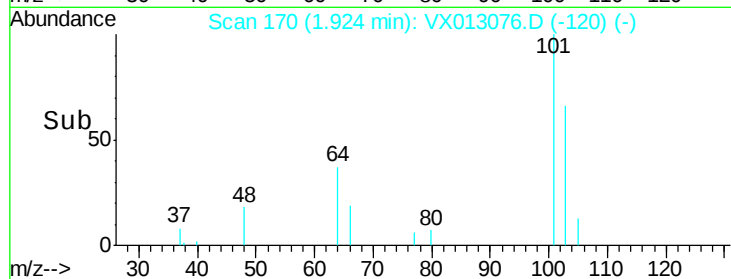
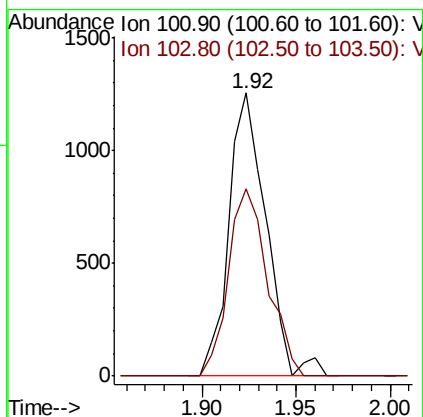
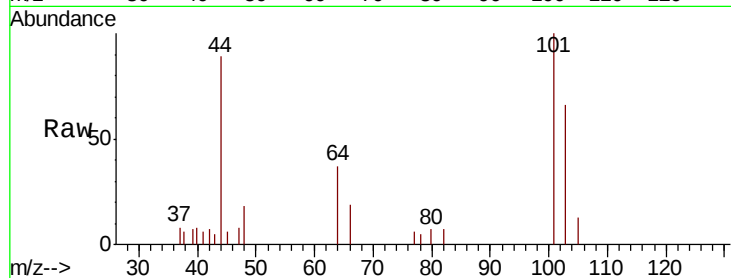
103 66.1 52.5 78.7

Manual Integrations

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10/16/2019 9:57:31 AM



#8

Diethyl Ether

Concen: 0.749 ug/l

RT: 2.19 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX013076.D

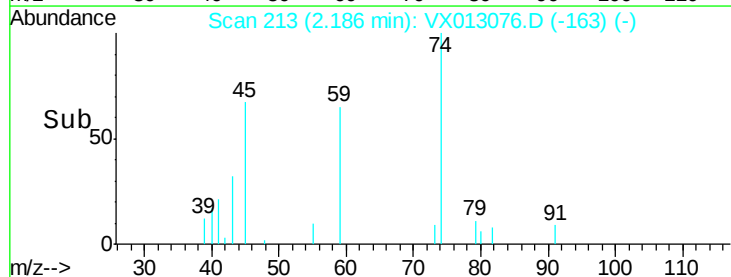
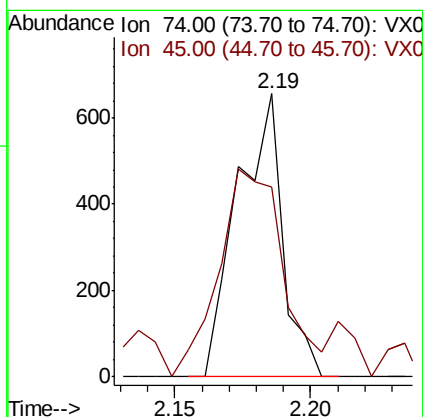
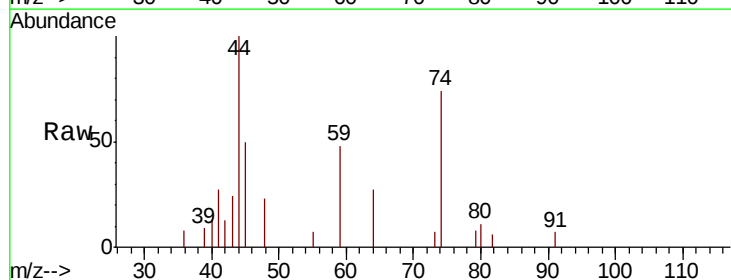
Acq: 15 Oct 2019 14:30

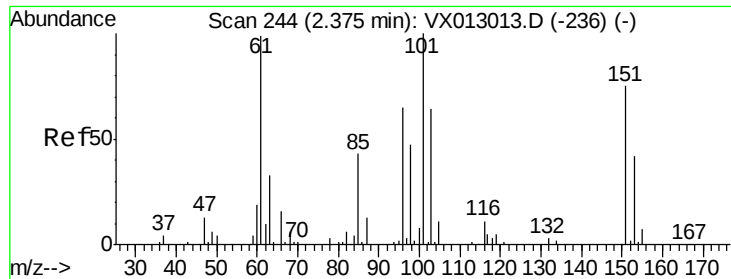
Tgt Ion: 74 Resp: 756

Ion Ratio Lower Upper

74 100

45 103.8 47.8 143.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.744 ug/l

RT: 2.37 min Scan# 243

Delta R.T. -0.01 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

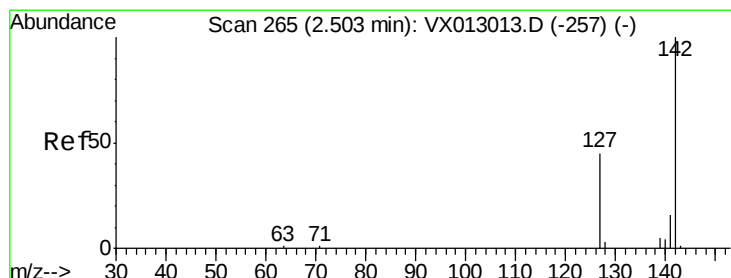
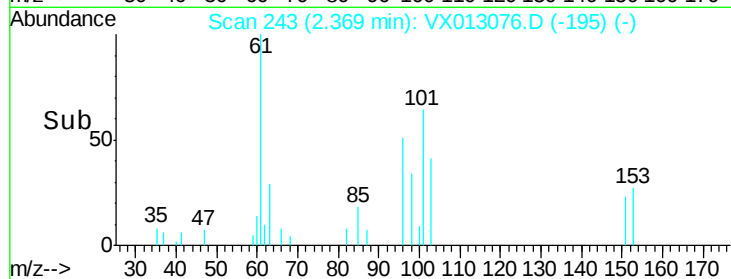
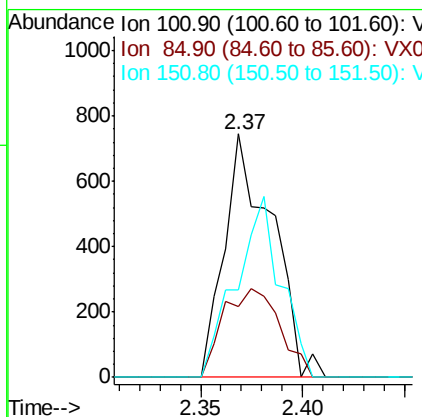
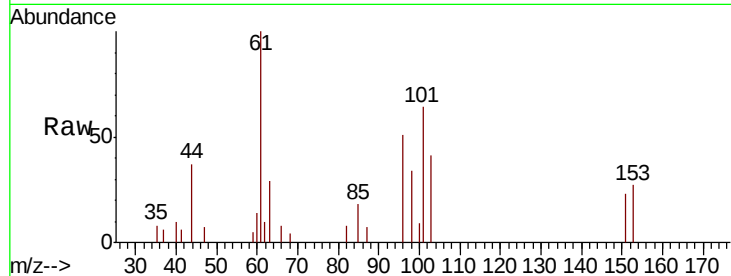
ClientSampleId :

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

Tot Ion:	101	Resp:	1204
Ion Ratio	Lower	Upper	
101	100		
85	43.4	35.2	52.8
151	70.2	60.3	90.5

Manual Integrations
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#10

Methyl Iodide

Concen: 0.646 ug/l

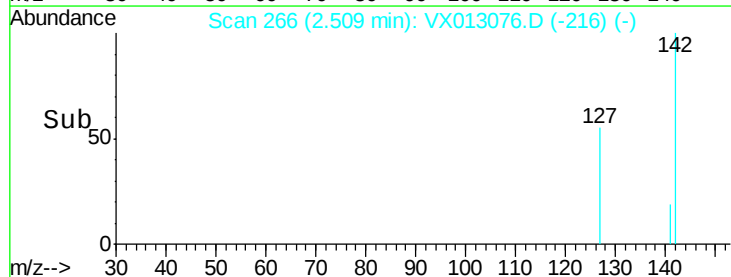
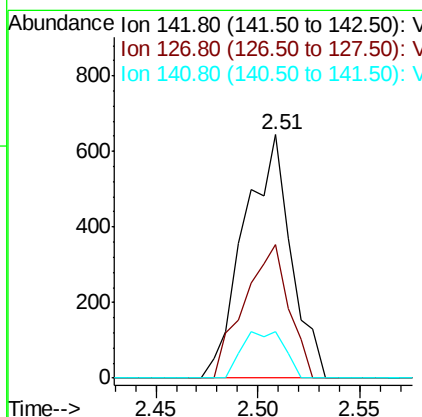
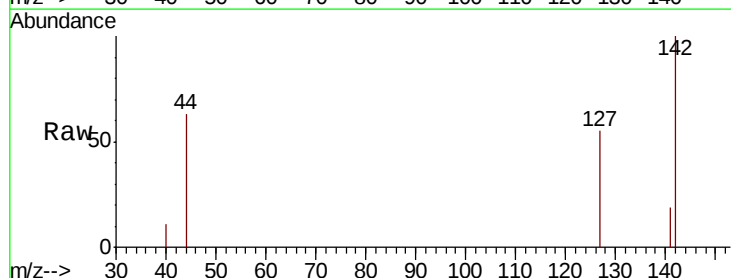
RT: 2.51 min Scan# 266

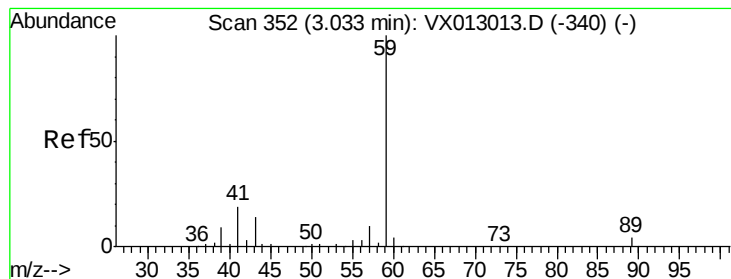
Delta R.T. 0.01 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Tgt Ion:	142	Resp:	1029
Ion Ratio	Lower	Upper	
142	100		
127	52.2	34.9	52.3
141	17.5	11.6	17.4#





#11

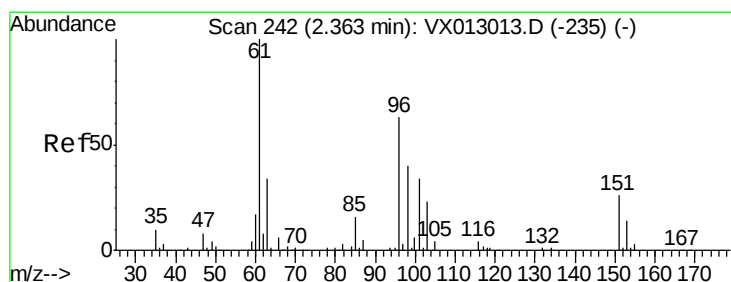
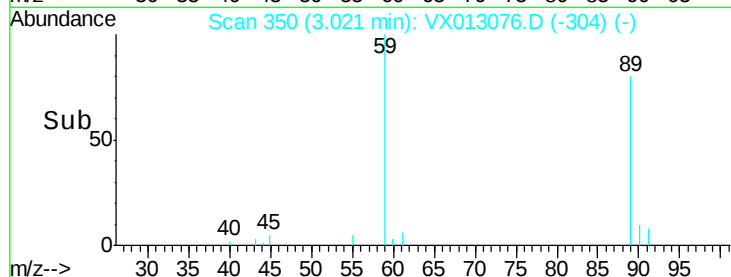
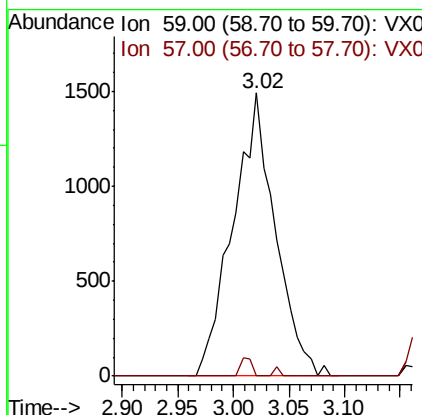
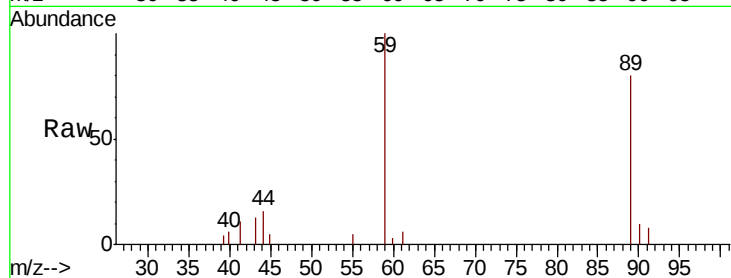
Tert butyl alcohol
Concen: 7.335 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.02 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

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

Tot Ion: 59 Resp: 3934
Ion Ratio Lower Upper
59 100
57 1.8 8.3 12.5#

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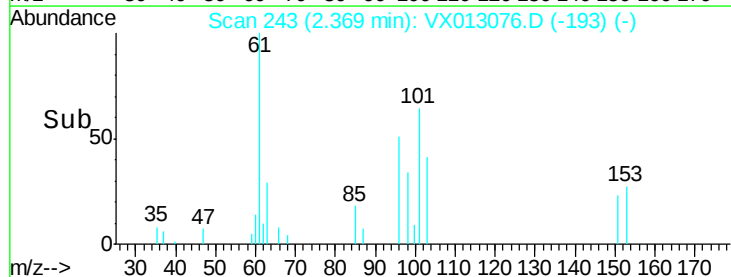
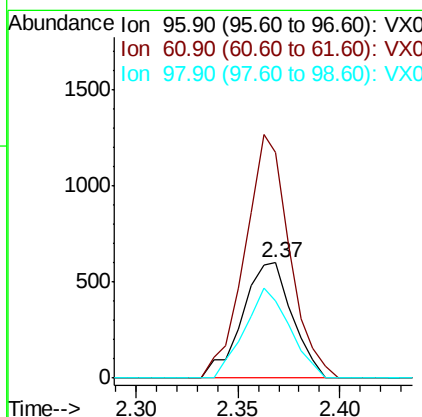
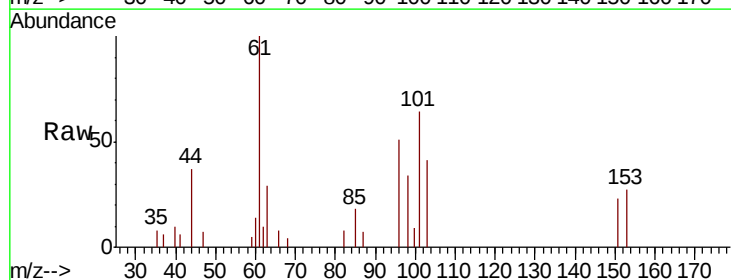
MMDadoda
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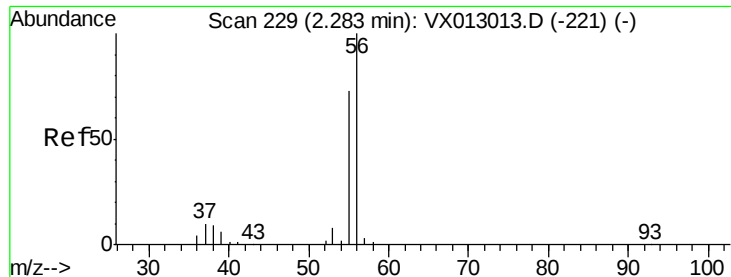


#12

1,1-Dichloroethene
Concen: 0.624 ug/l
RT: 2.37 min Scan# 243
Delta R.T. 0.01 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Tgt Ion: 96 Resp: 1021
Ion Ratio Lower Upper
96 100
61 196.2 132.2 198.4
98 67.4 50.5 75.7





#13

Acrolein

Concen: 2.852 ug/l

RT: 2.28 min Scan# 229

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

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

Tot Ion: 56 Resp: 1087

Ion Ratio Lower Upper

56 100

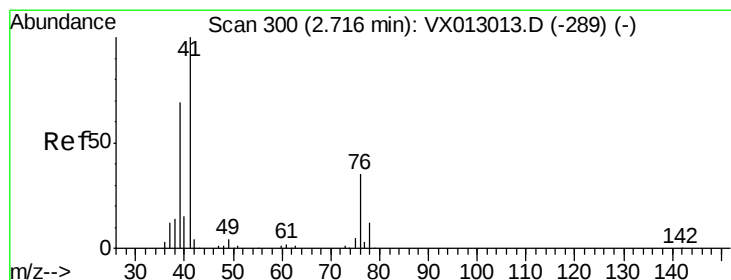
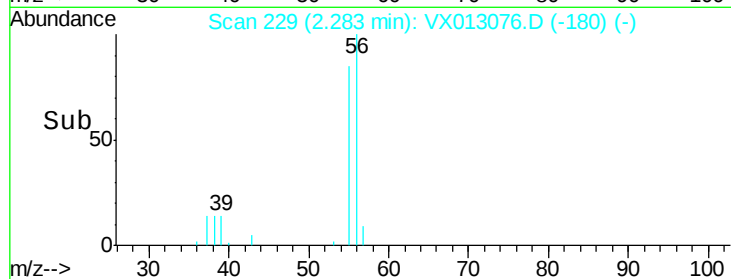
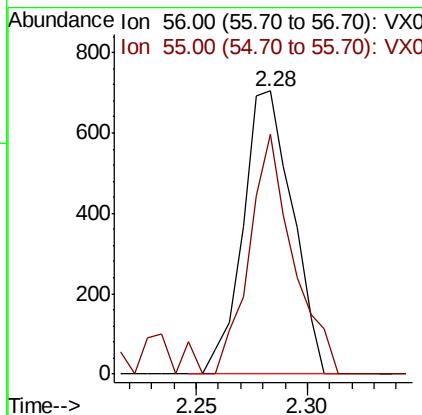
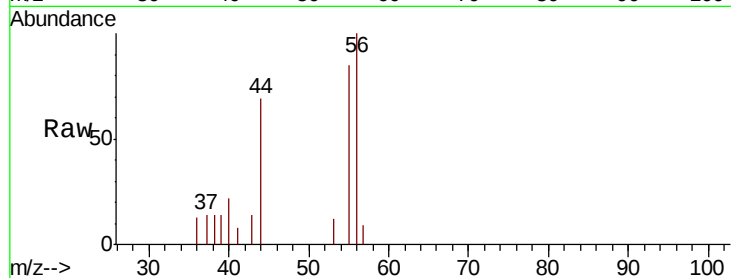
55 75.3 56.6 85.0

Manual Integrations

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#14

Allyl chloride

Concen: 0.618 ug/l

RT: 2.72 min Scan# 300

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

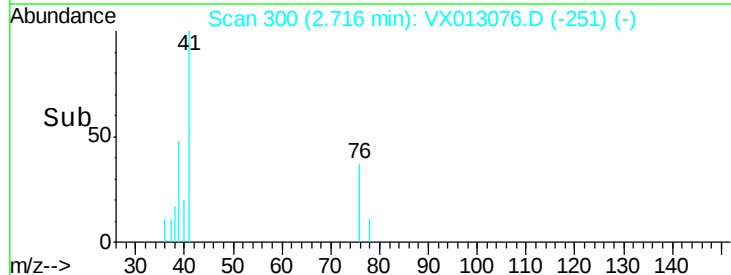
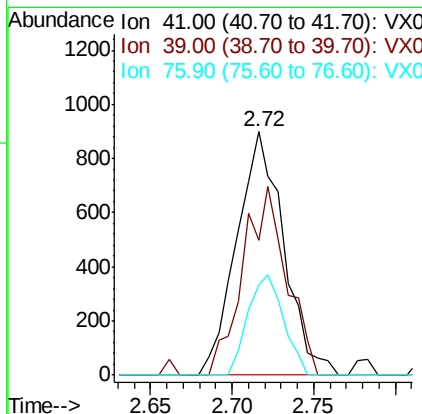
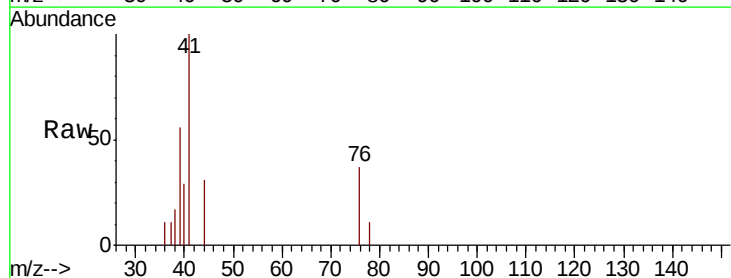
Tgt Ion: 41 Resp: 1799

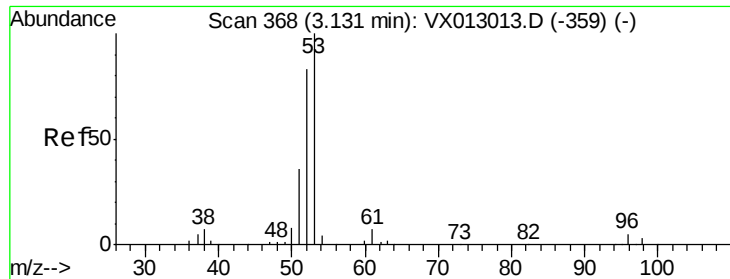
Ion Ratio Lower Upper

41 100

39 72.3 51.0 76.6

76 31.3 26.2 39.4





#15

Acrylonitrile

Concen: 3.492 ug/l

RT: 3.14 min Scan# 369

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

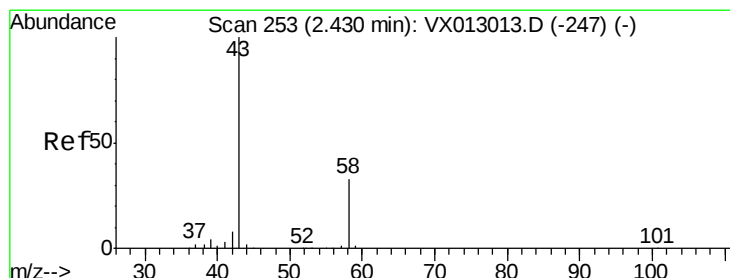
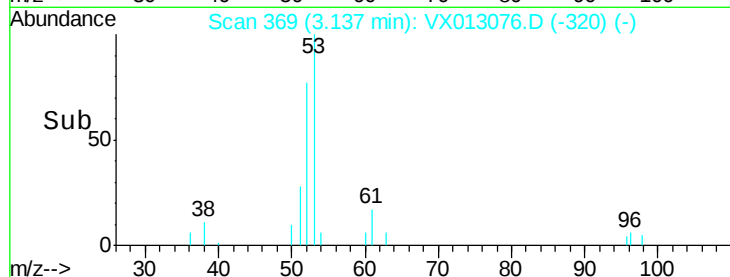
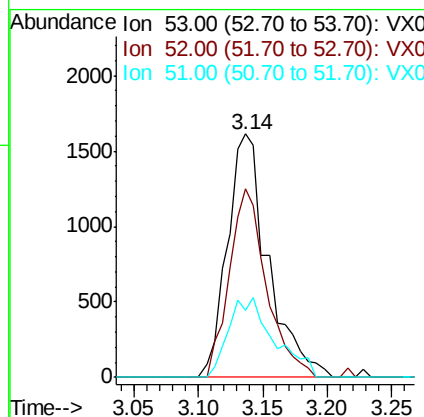
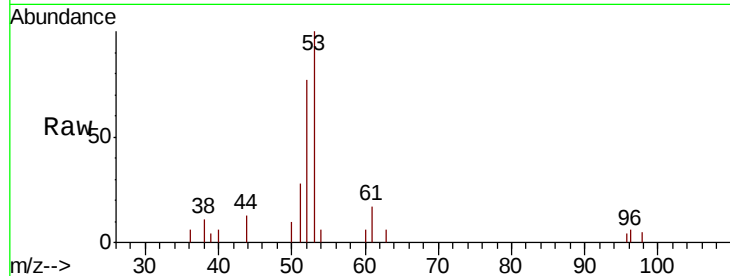
ClientSampleId :

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

Tot Ion:	53	Resp:	3549
Ion	Ratio	Lower	Upper
53	100		
52	71.2	66.2	99.2
51	36.7	28.2	42.4

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#16

Acetone

Concen: 3.412 ug/l

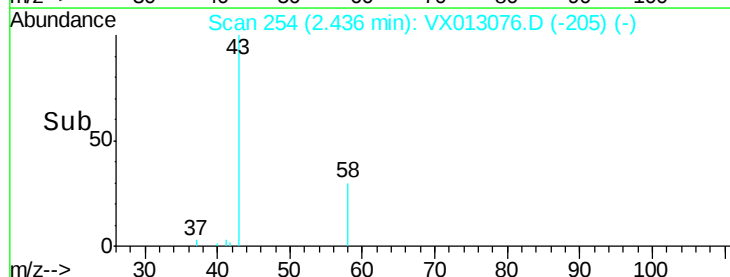
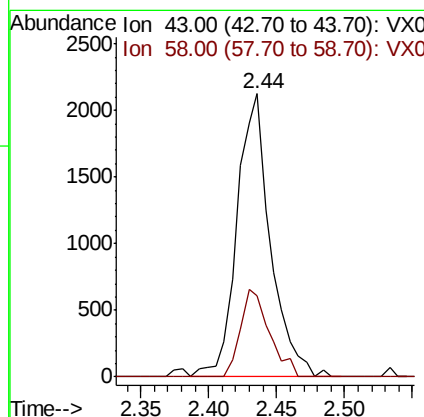
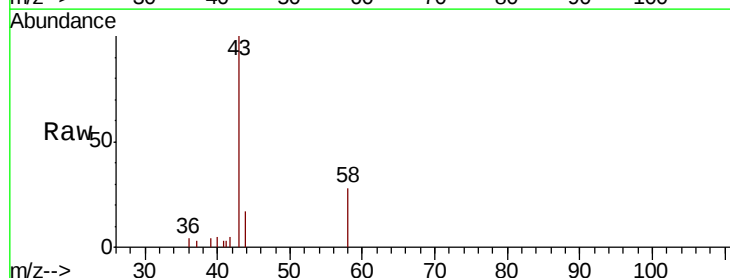
RT: 2.44 min Scan# 254

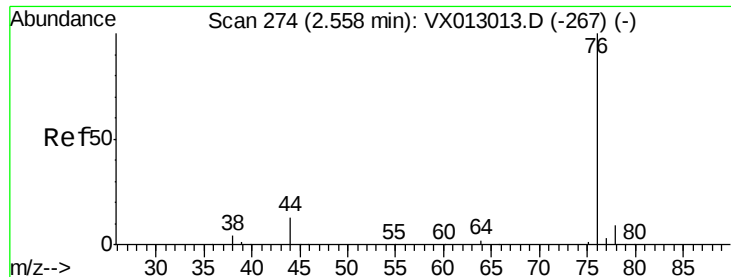
Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Tgt Ion:	43	Resp:	3638
Ion	Ratio	Lower	Upper
43	100		
58	28.5	25.4	38.2





#17

Carbon Disulfide

Concen: 0.633 ug/l

RT: 2.56 min Scan# 275

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

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

Tot Ion: 76 Resp: 2951

Ion Ratio Lower Upper

76 100

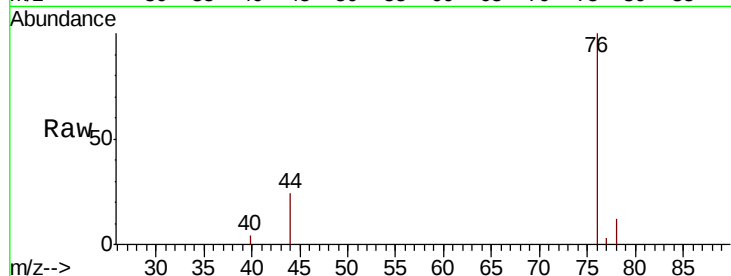
78 11.6 7.1 10.7#

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

2000

1500

1000

500

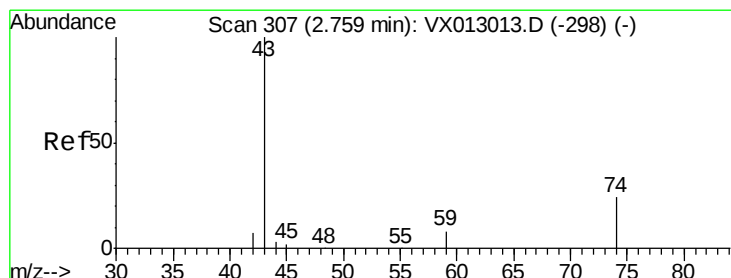
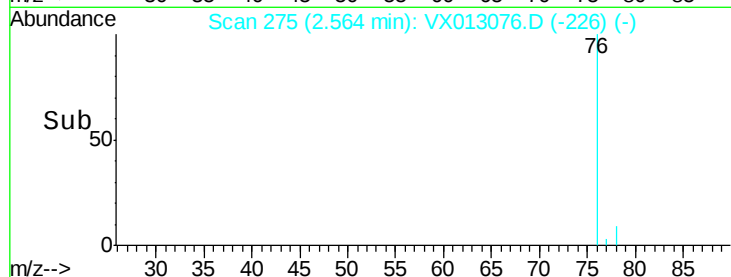
0

Time-->

2.50

2.55

2.60



#18

Methyl Acetate

Concen: 0.705 ug/l

RT: 2.76 min Scan# 308

Delta R.T. -0.00 min

Lab File: VX013076.D

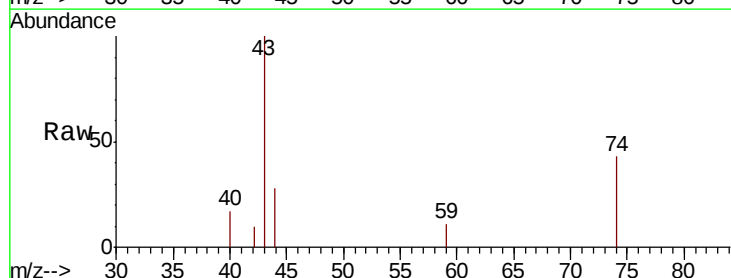
Acq: 15 Oct 2019 14:30

Tgt Ion: 43 Resp: 1782

Ion Ratio Lower Upper

43 100

74 28.4 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

1000

800

600

400

200

0

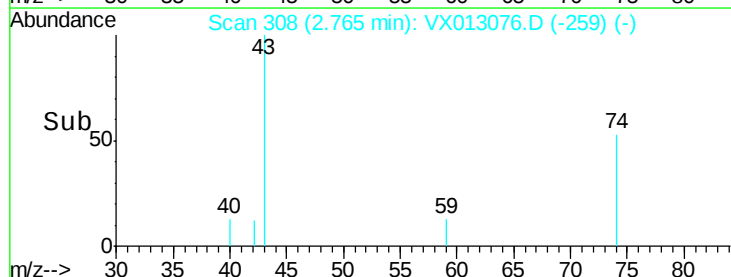
Time-->

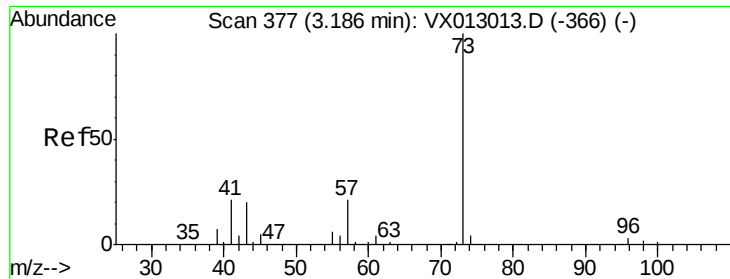
2.70

2.75

2.80

2.85





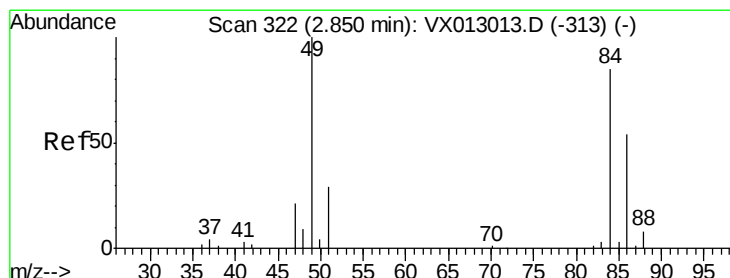
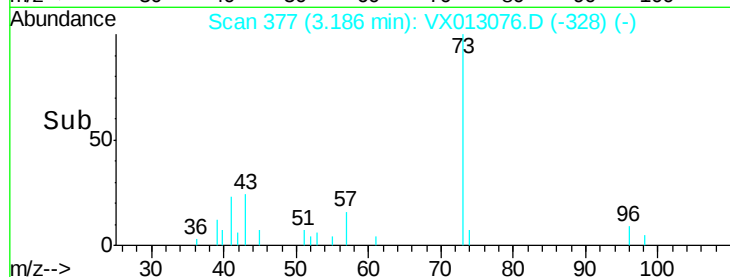
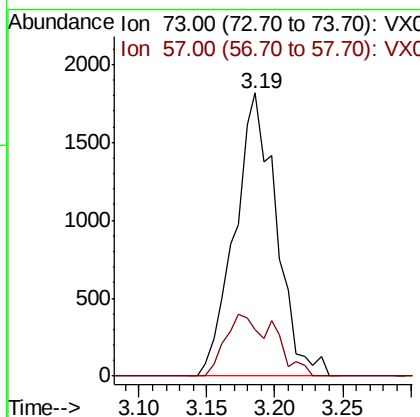
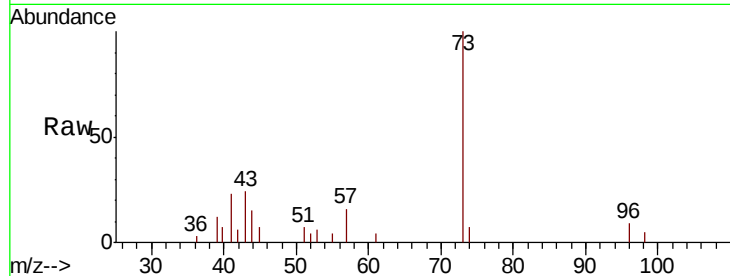
#19
Methyl tert-butyl Ether
Concen: 0.689 ug/l
RT: 3.19 min Scan# 377
Delta R.T. -0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

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

Tot Ion: 73 Resp: 3891
Ion Ratio Lower Upper
73 100
57 16.3 17.8 26.6#

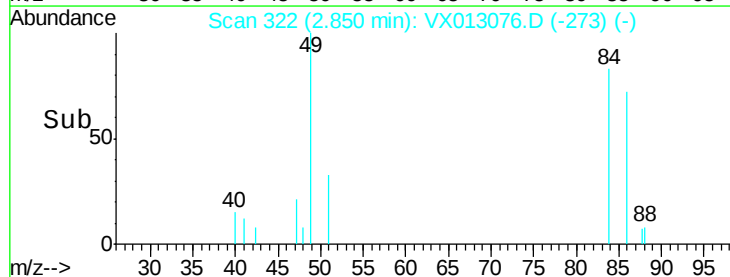
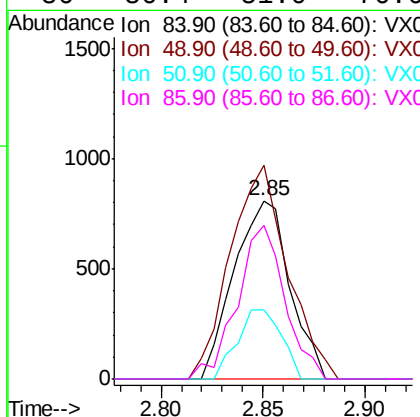
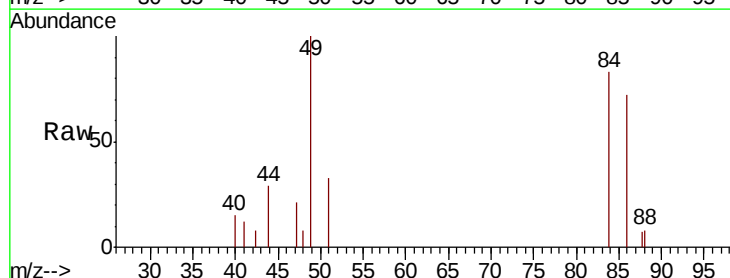
Manual Integrations
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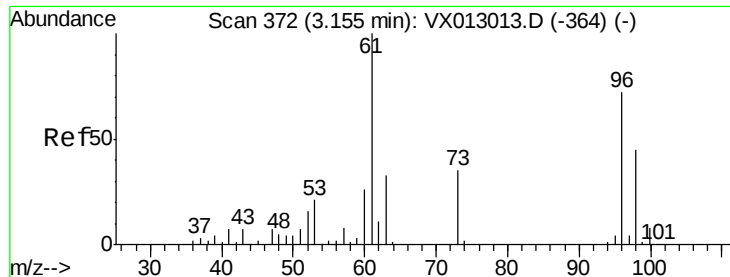
MMDadoda
10/16/2019 9:57:31 AM



#20
Methylene Chloride
Concen: 0.783 ug/l
RT: 2.85 min Scan# 322
Delta R.T. -0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Tgt Ion: 84 Resp: 1534
Ion Ratio Lower Upper
84 100
49 119.8 96.6 144.8
51 39.1 30.7 46.1
86 86.4 51.0 76.6#





#21

trans-1,2-Dichloroethene

Concen: 0.751 ug/l

RT: 3.16 min Scan# 372

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

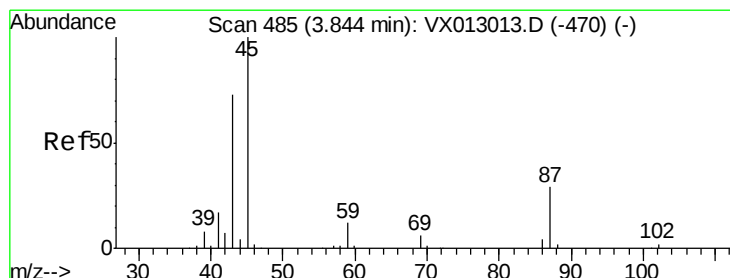
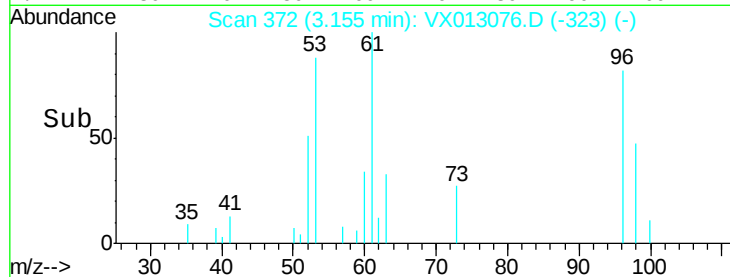
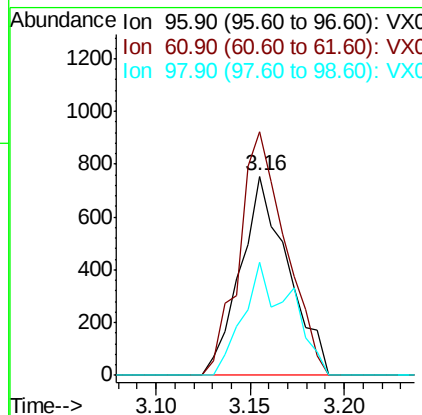
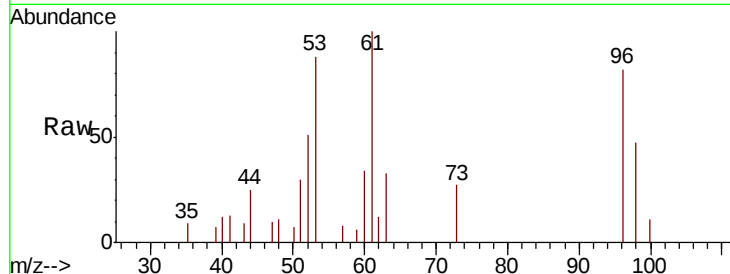
ClientSampleId :

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

Tot Ion:	96	Resp:	1317
Ion	Ratio	Lower	Upper
96	100		
61	122.4	110.4	165.6
98	57.0	51.5	77.3

Manual Integrations
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#22

Diisopropyl ether

Concen: 0.665 ug/l

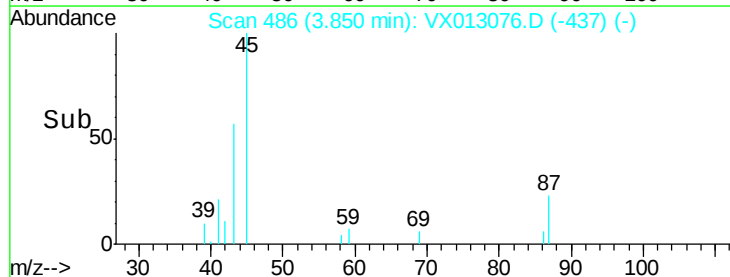
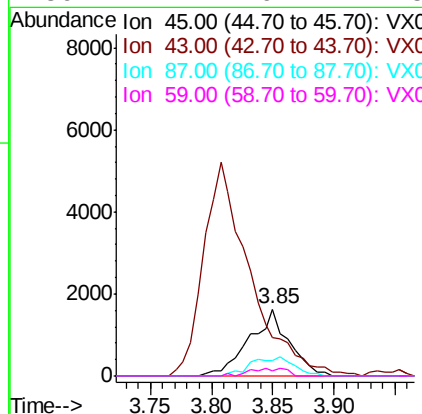
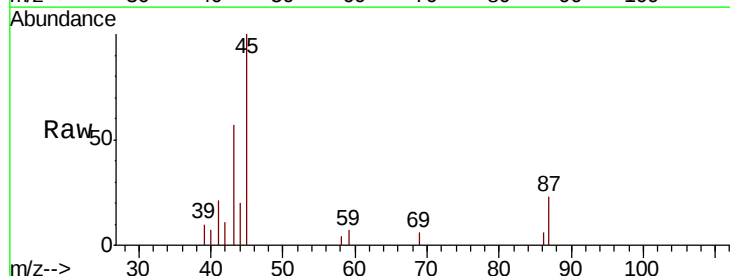
RT: 3.85 min Scan# 486

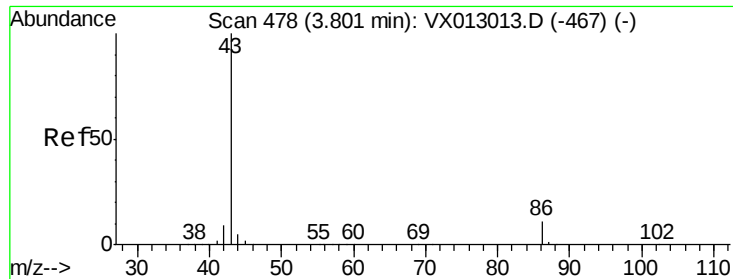
Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Tgt Ion:	45	Resp:	3711
Ion	Ratio	Lower	Upper
45	100		
43	50.9	51.4	77.0#
87	22.7	22.5	33.7
59	7.1	9.7	14.5#





#23

Vinyl Acetate

Concen: 2.860 ug/l

RT: 3.81 min Scan# 479

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

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

Tot Ion: 43 Resp: 13780

Ion Ratio Lower Upper

43 100

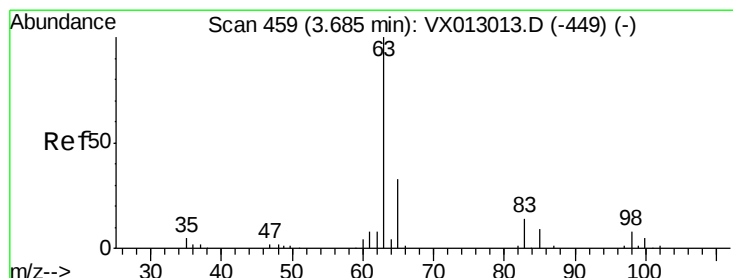
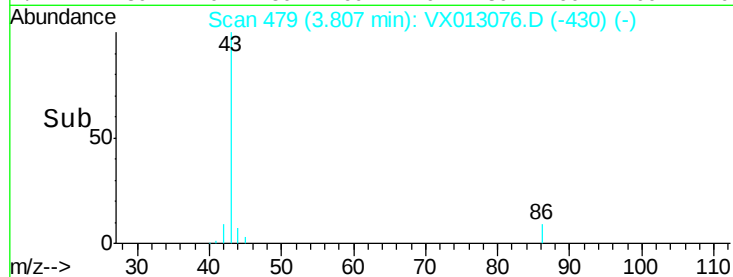
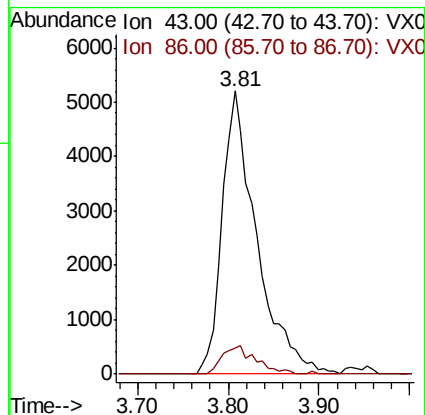
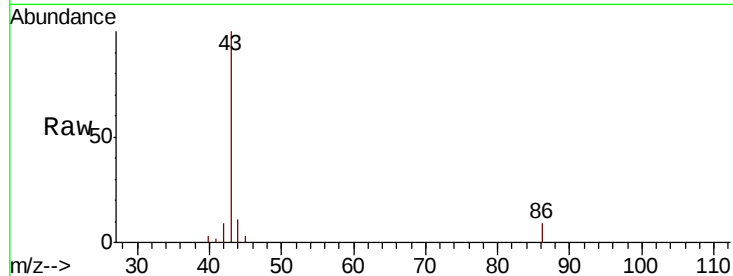
86 9.4 9.0 13.6

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 0.721 ug/l

RT: 3.69 min Scan# 460

Delta R.T. 0.01 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

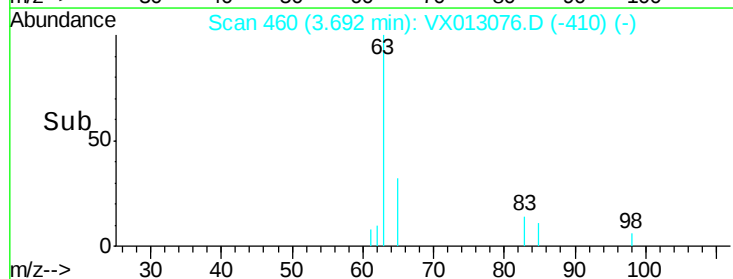
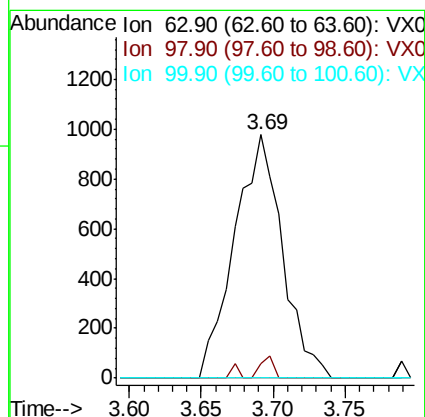
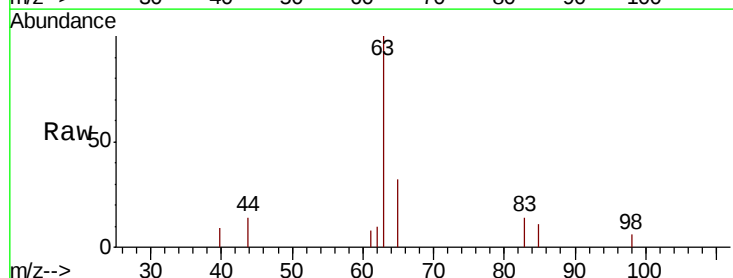
Tgt Ion: 63 Resp: 2263

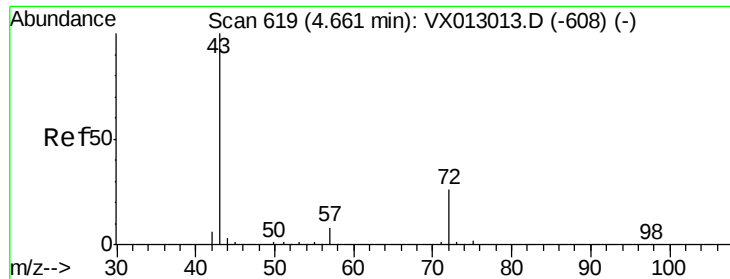
Ion Ratio Lower Upper

63 100

98 6.1 3.9 11.5

100 0.0 2.3 6.9#





#25

2-Butanone

Concen: 3.183 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

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

Tot Ion: 43 Resp: 4709

Ion Ratio Lower Upper

43 100

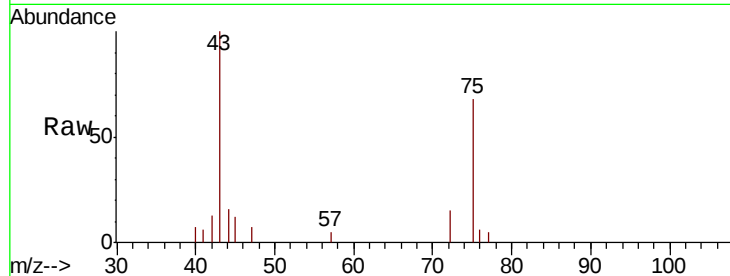
72 14.7 21.0 31.6#

Manual Integrations

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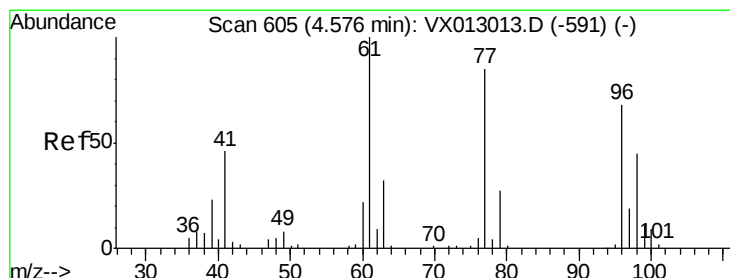
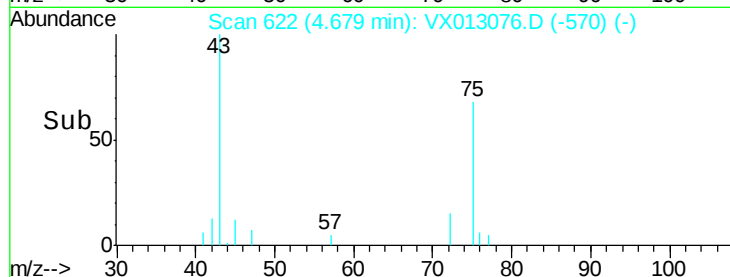
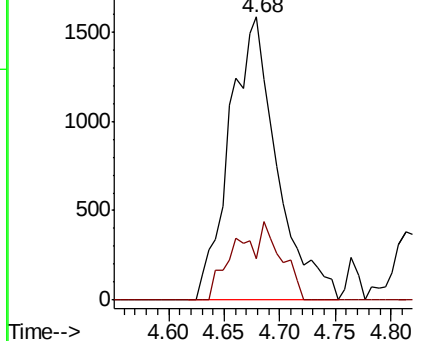
MMDadoda

10/16/2019 9:57:31 AM



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#26

2,2-Dichloropropane

Concen: 0.611 ug/l

RT: 4.57 min Scan# 604

Delta R.T. -0.01 min

Lab File: VX013076.D

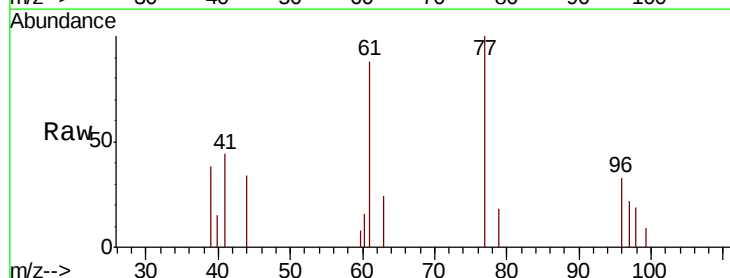
Acq: 15 Oct 2019 14:30

Tgt Ion: 77 Resp: 1614

Ion Ratio Lower Upper

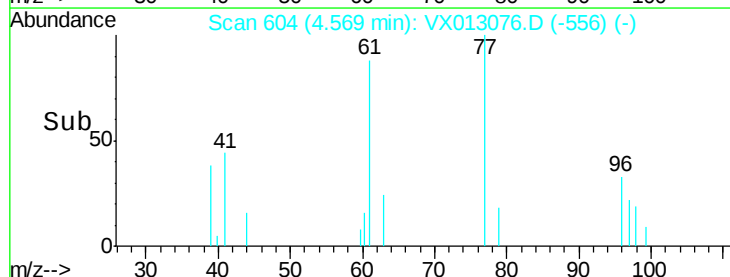
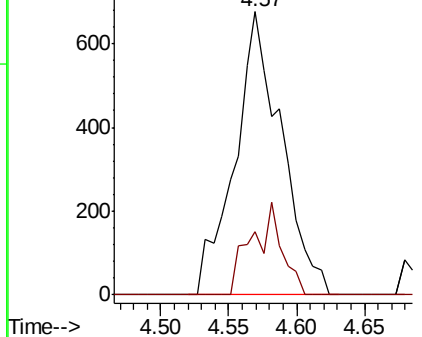
77 100

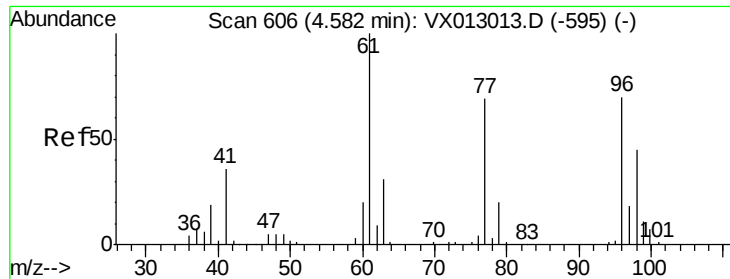
97 21.6 11.3 33.9



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0





#27

cis-1,2-Dichloroethene

Concen: 0.667 ug/l

RT: 4.58 min Scan# 606

Delta R.T. -0.01 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Tot Ion:	96	Resp:	1347
Ion	Ratio	Lower	Upper
96	100		
61	198.6	0.0	290.6
98	46.1	0.0	128.8

Instrument :

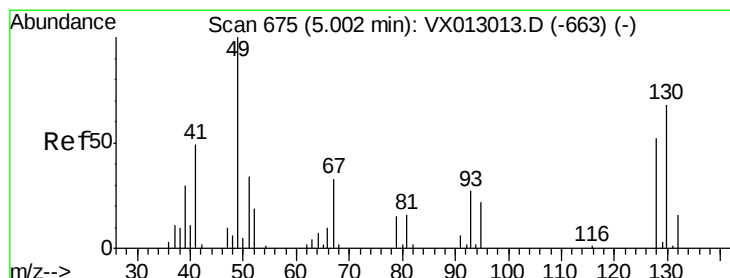
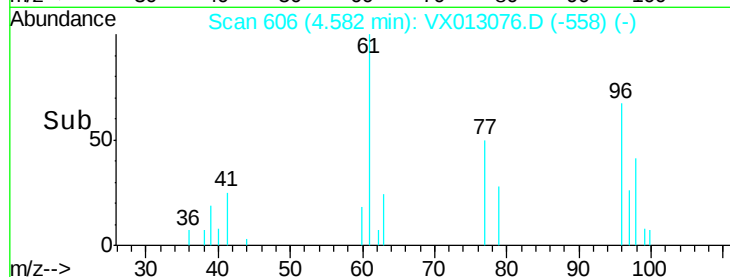
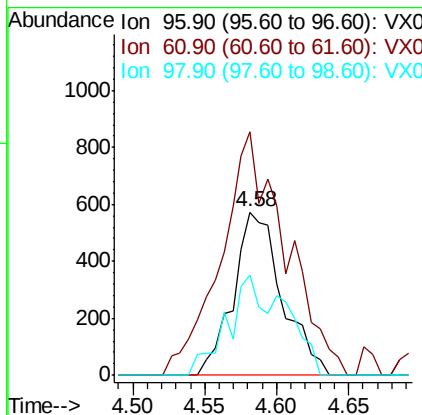
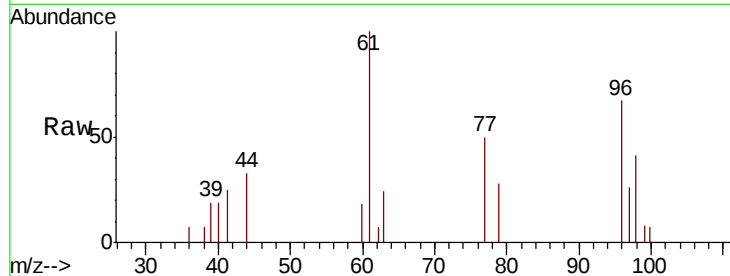
MSVOA_X

ClientSampleId :

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

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#28

Bromochloromethane

Concen: 0.729 ug/l

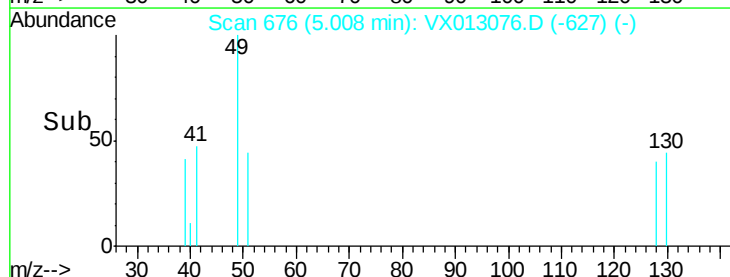
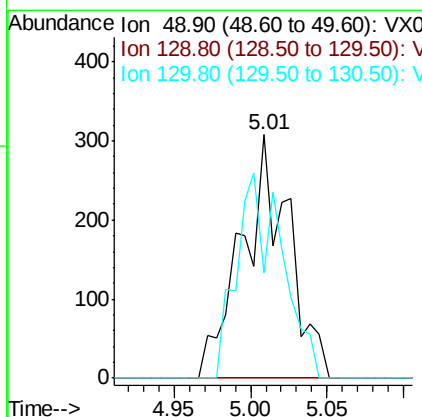
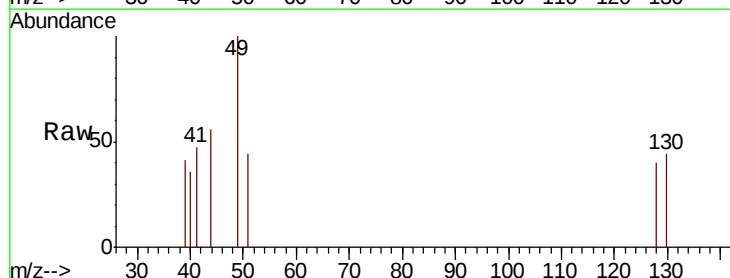
RT: 5.01 min Scan# 676

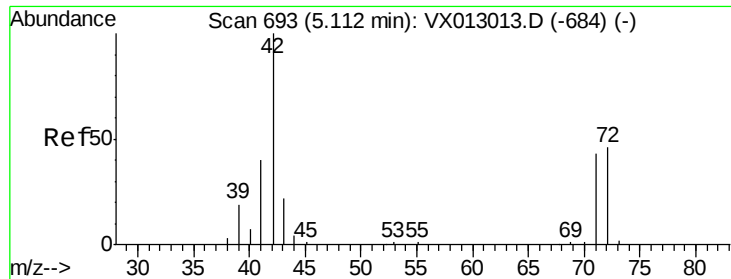
Delta R.T. 0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Tgt Ion:	49	Resp:	656
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.2
130	81.3	62.1	93.1





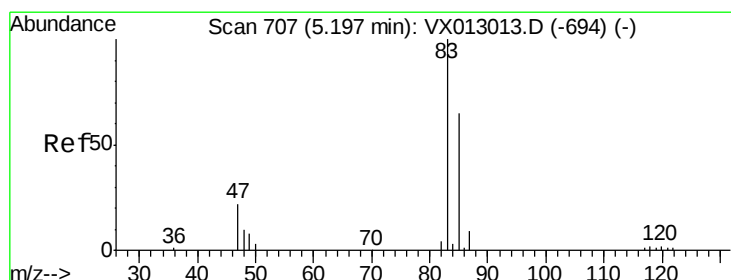
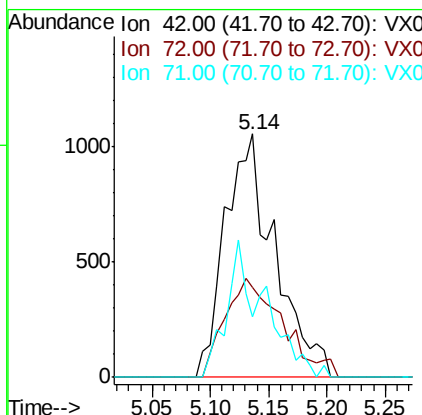
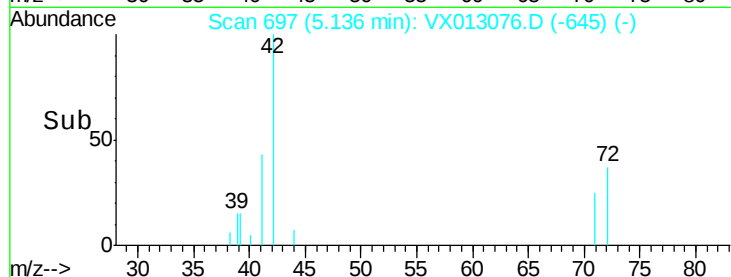
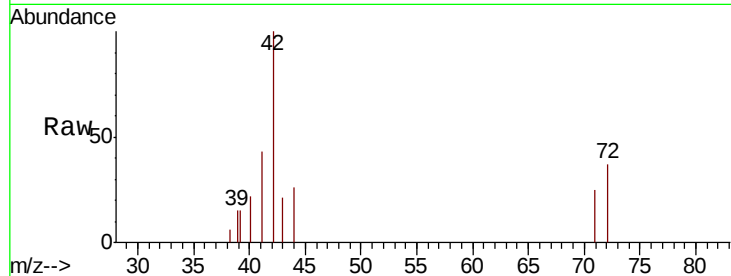
#29
Tetrahydrofuran
Concen: 3.407 ug/l
RT: 5.14 min Scan# 697
Delta R.T. 0.02 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

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

Tot Ion	Ratio	Lower	Upper
42	100		
72	47.3	36.9	55.3
71	24.9	33.5	50.3

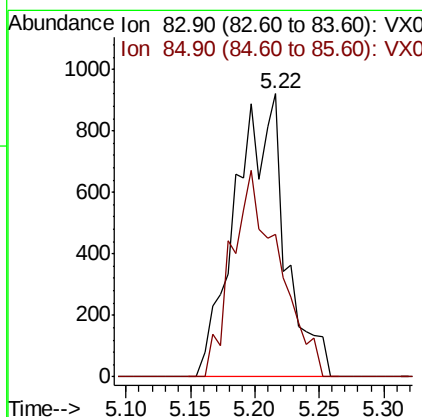
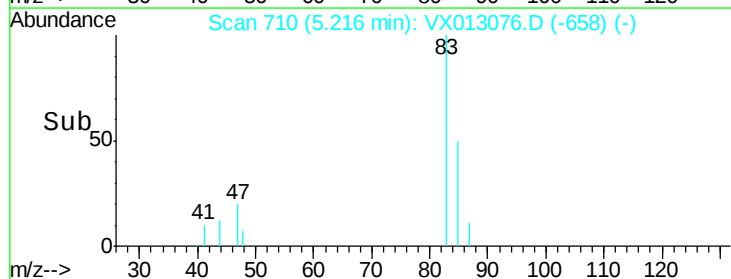
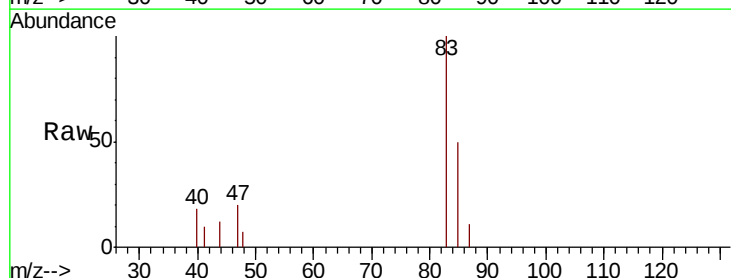
Manual Integrations
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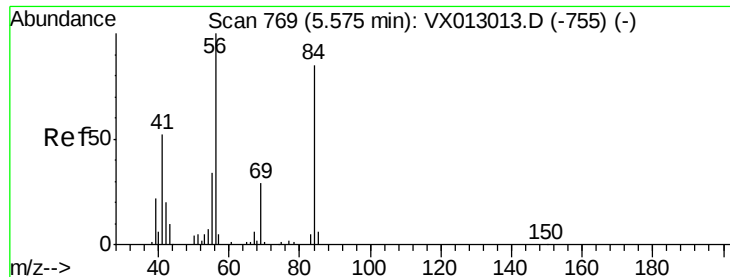
MMDadoda
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#30
Chloroform
Concen: 0.769 ug/l
RT: 5.22 min Scan# 710
Delta R.T. 0.02 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Tgt Ion	Ratio	Lower	Upper
83	100		
85	50.3	51.5	77.3





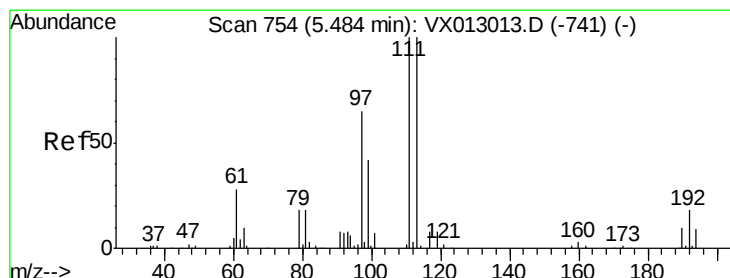
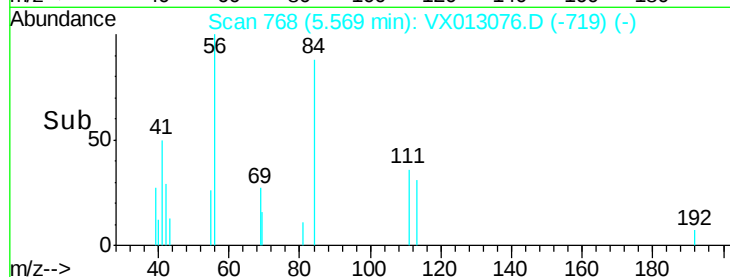
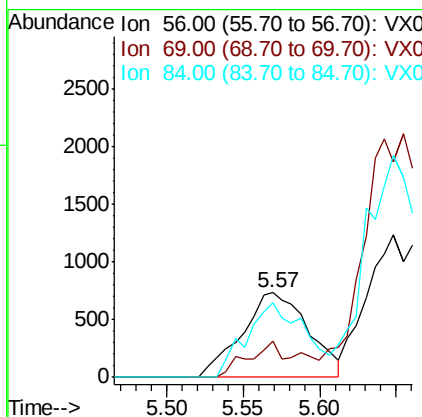
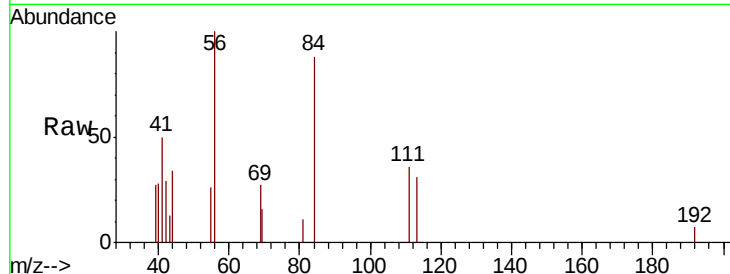
#31
Cyclohexane
Concen: 0.756 ug/l
RT: 5.57 min Scan# 768
Delta R.T. -0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

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

Tot Ion	Ratio	Lower	Upper
56	100		
69	43.0	25.2	37.8#
84	87.6	71.3	106.9

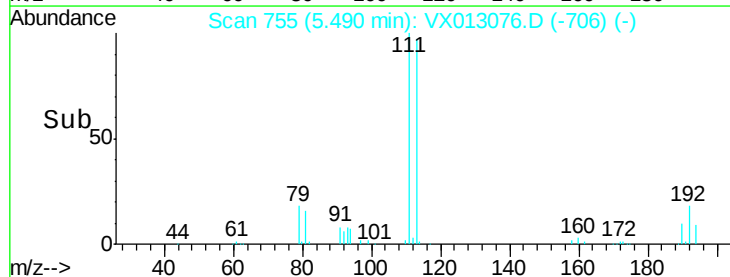
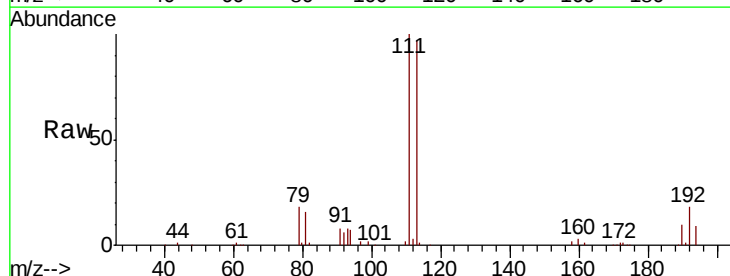
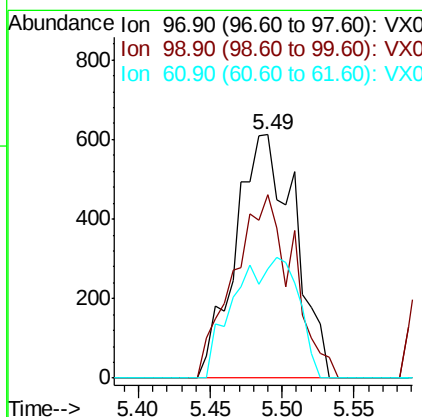
Manual Integrations
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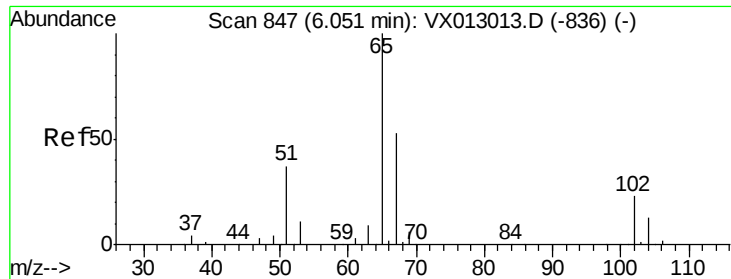
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 0.642 ug/l
RT: 5.49 min Scan# 755
Delta R.T. -0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Tgt Ion	Ratio	Lower	Upper
97	100		
99	0.0	52.3	78.5#
61	53.8	35.0	52.4#





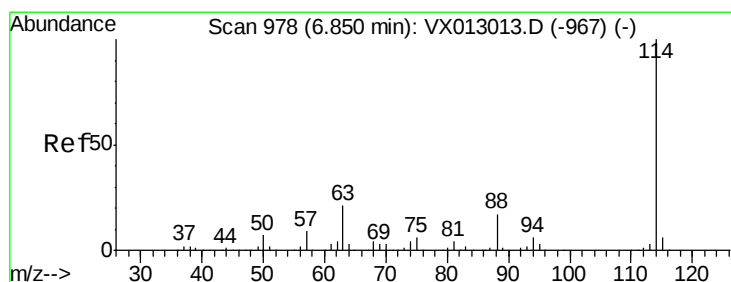
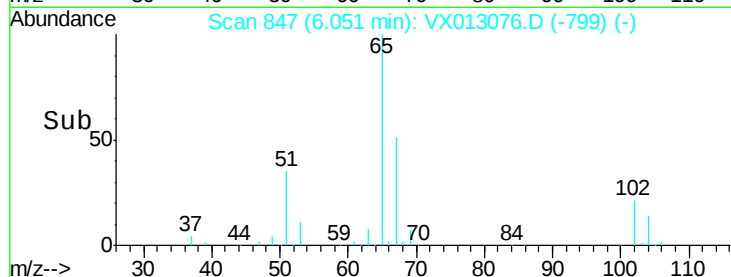
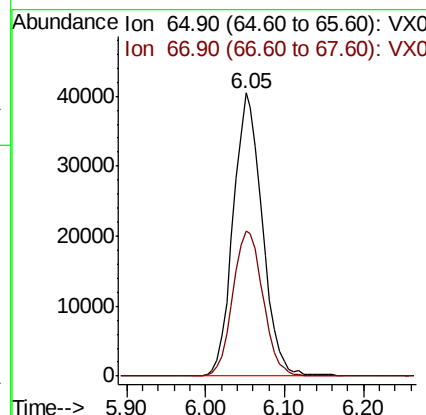
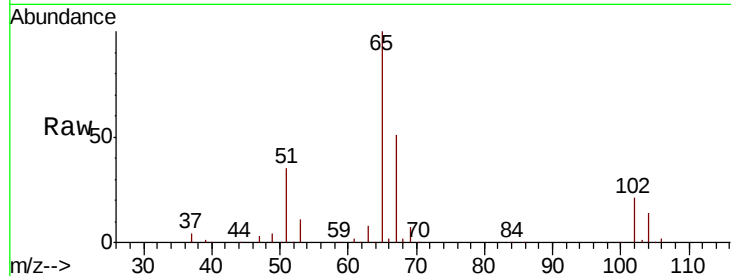
#33
 1,2-Dichloroethane-d4
 Concen: 51.283 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.01 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

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

Tot Ion	Ratio	Resp	Lower	Upper
65	100	103750		
67	53.2	0.0	104.4	

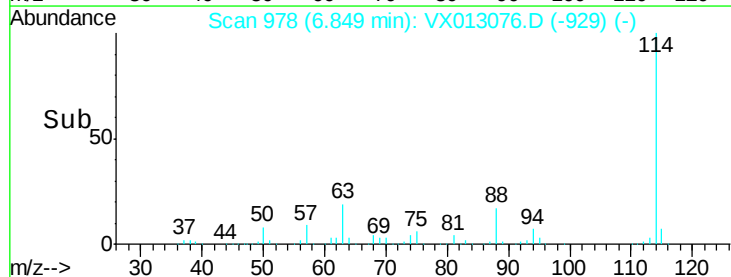
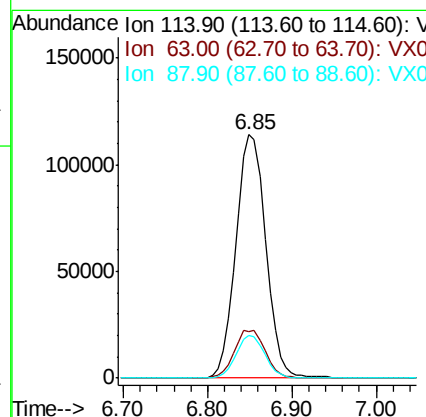
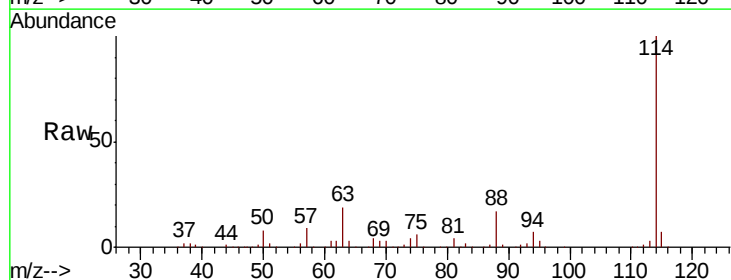
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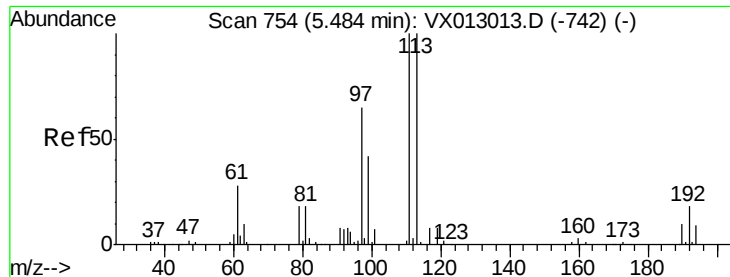
MMDadoda
 10/16/2019 9:57:31 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	273854		
63	19.2	0.0	40.8	
88	17.5	0.0	33.8	





#35

Dibromofluoromethane

Concen: 51.509 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

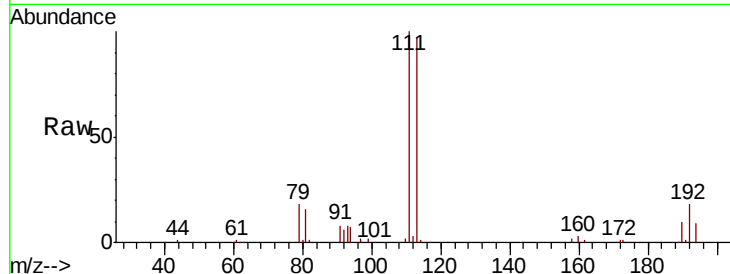
ClientSampleId :

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

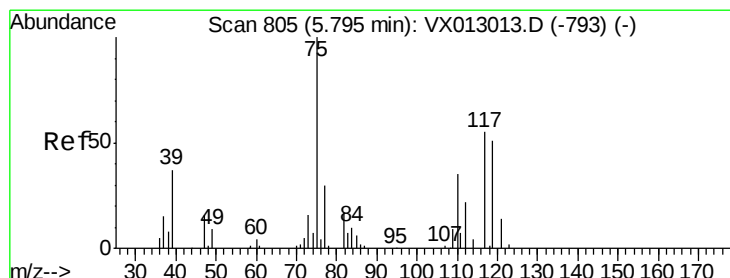
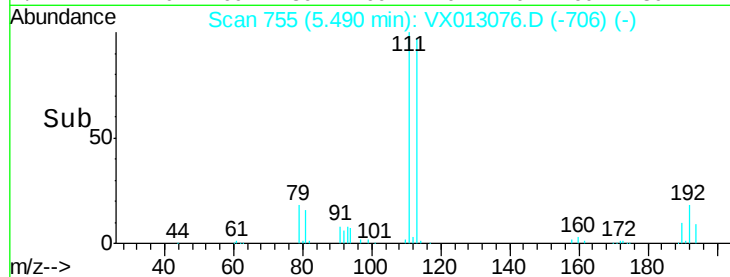
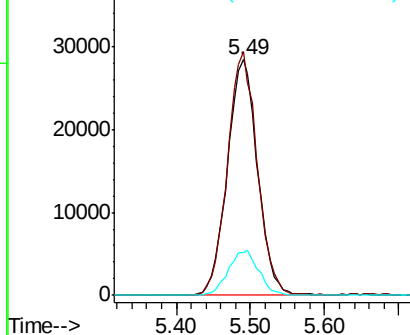
Tot Ion:	113	Resp:	80961
Ion Ratio	Lower	Upper	
113	100		
111	101.6	83.2	124.8
192	19.1	15.4	23.2

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Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 0.690 ug/l

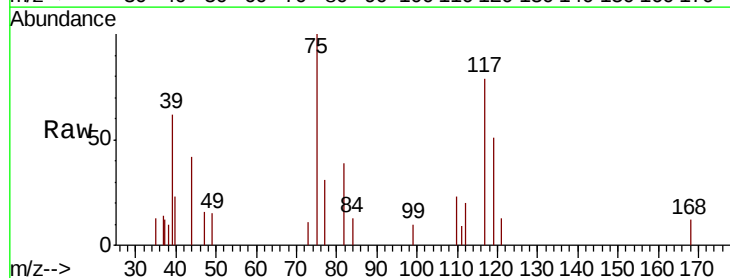
RT: 5.78 min Scan# 803

Delta R.T. -0.01 min

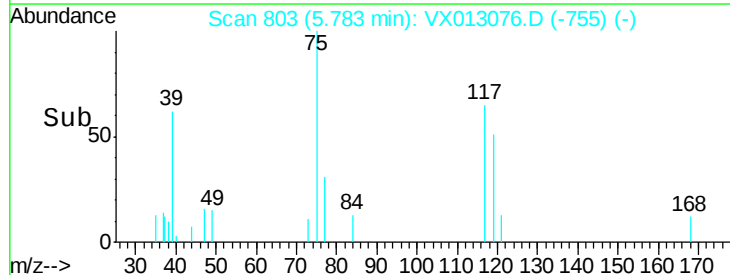
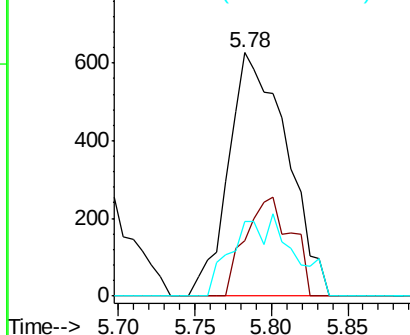
Lab File: VX013076.D

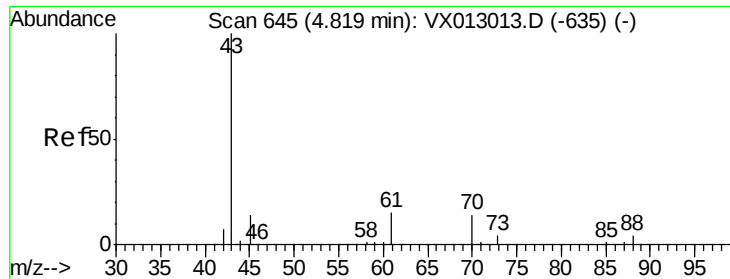
Acq: 15 Oct 2019 14:30

Tgt Ion:	75	Resp:	1662
Ion Ratio	Lower	Upper	
75	100		
110	31.8	17.6	52.9
77	18.2	24.4	36.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VX0





#37

Ethyl Acetate

Concen: 0.625 ug/l

RT: 4.83 min Scan# 647

Delta R.T. 0.01 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

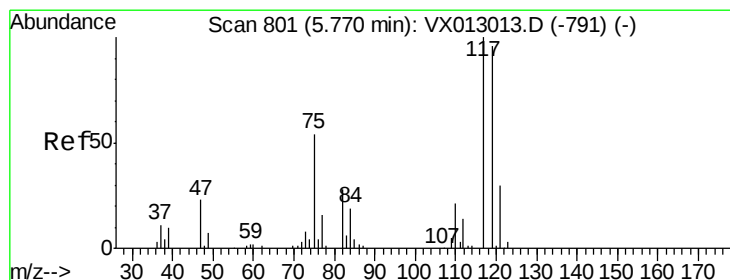
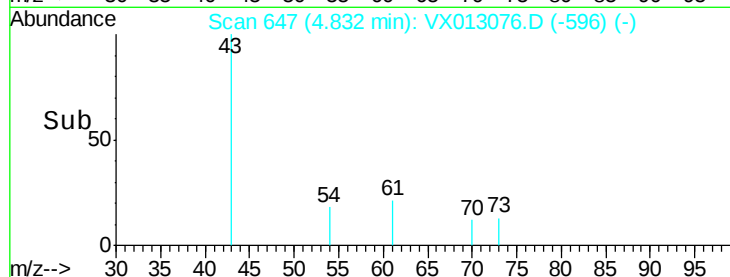
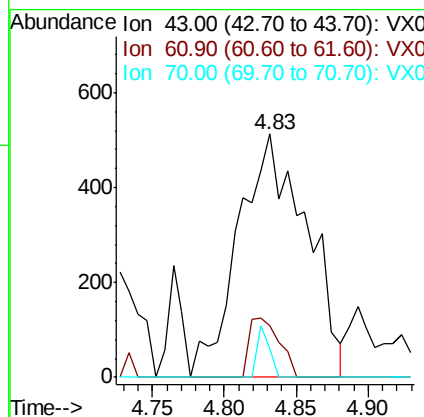
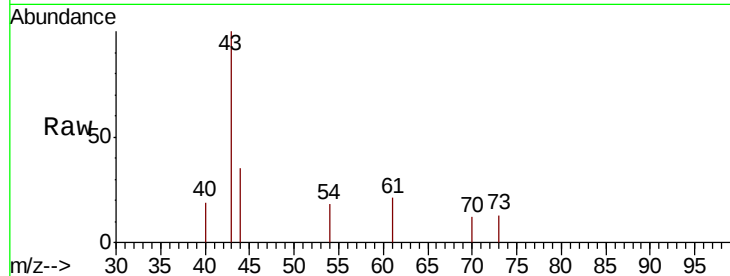
ClientSampleId :

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

Tot Ion:	43	Resp:	1684
Ion	Ratio	Lower	Upper
43	100		
61	10.5	11.4	17.0#
70	3.7	9.8	14.6#

Manual Integrations
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#38

Carbon Tetrachloride

Concen: 0.688 ug/l

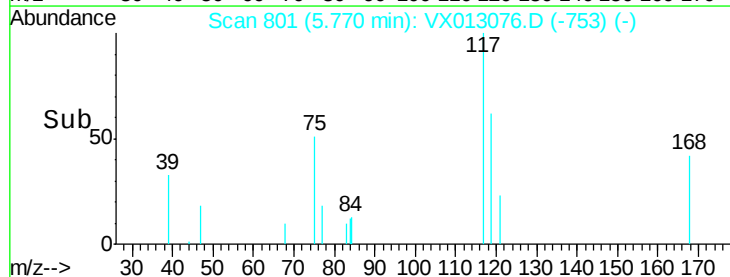
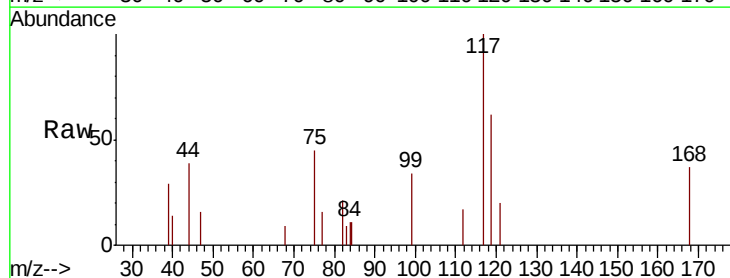
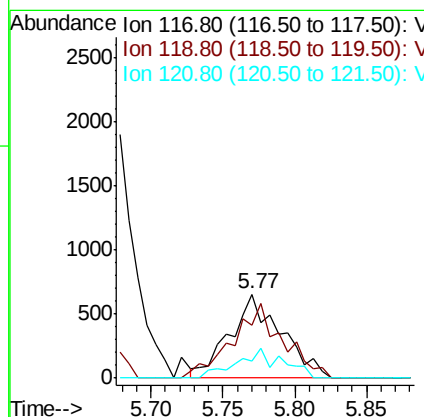
RT: 5.77 min Scan# 801

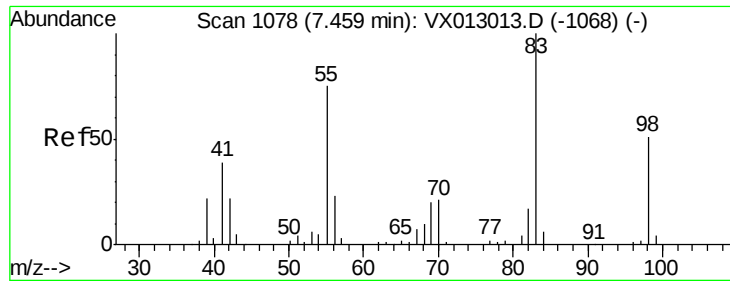
Delta R.T. -0.01 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Tgt Ion:	117	Resp:	1612
Ion	Ratio	Lower	Upper
117	100		
119	62.3	74.5	111.7#
121	20.3	24.2	36.4#





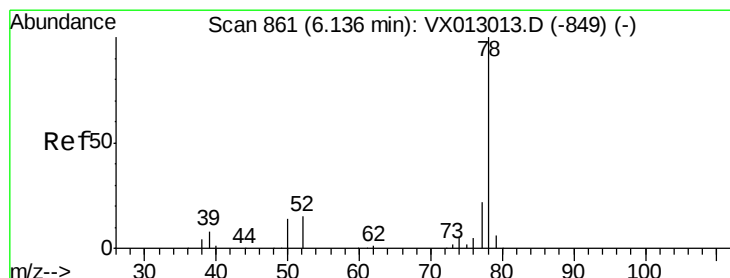
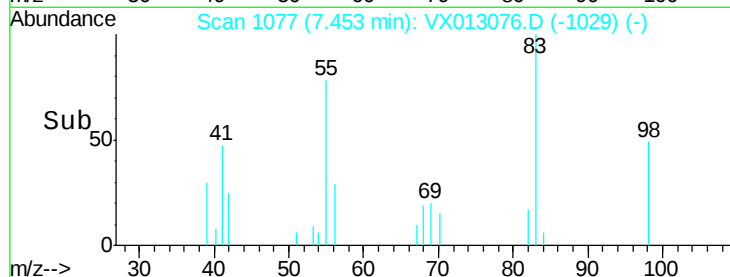
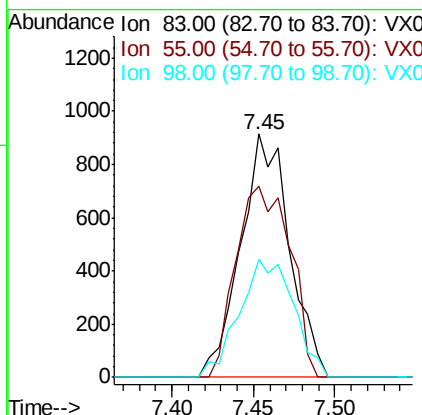
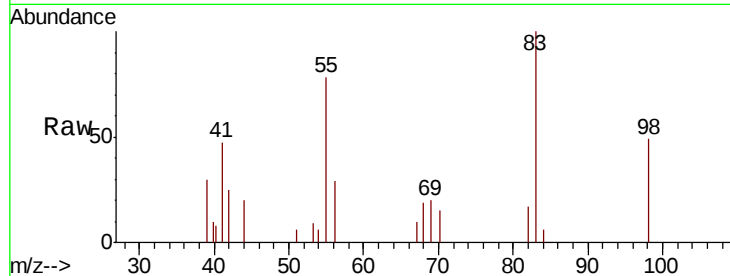
#39
Methvlcvclohexane
Concen: 0.653 ug/l
RT: 7.45 min Scan# 1077
Delta R.T. -0.01 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

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

Tot Ion	Ratio	Lower	Upper
83	100		
55	78.4	60.2	90.4
98	48.5	38.5	57.7

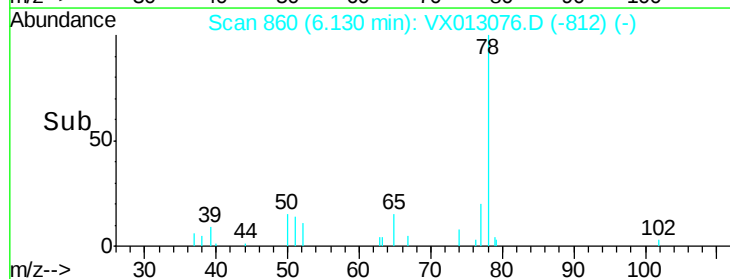
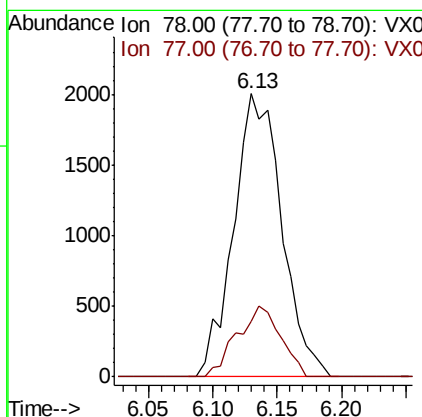
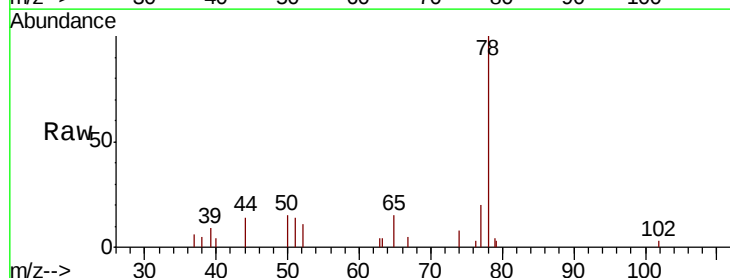
Manual Integrations
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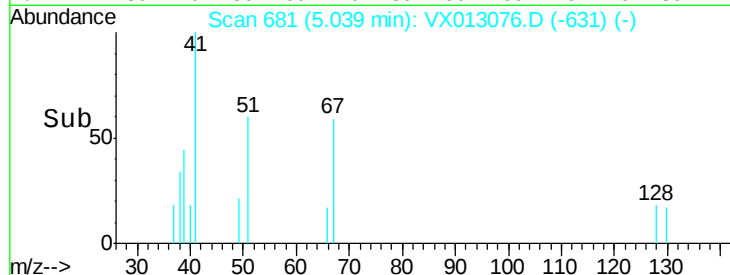
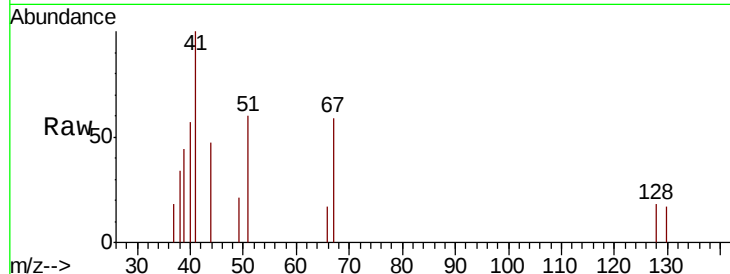
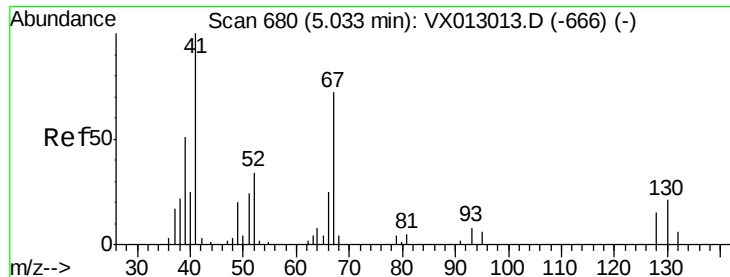
MMDadoda
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#40
Benzene
Concen: 0.730 ug/l
RT: 6.13 min Scan# 860
Delta R.T. -0.01 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Tgt Ion	Ratio	Lower	Upper
78	100		
77	19.6	19.0	28.4





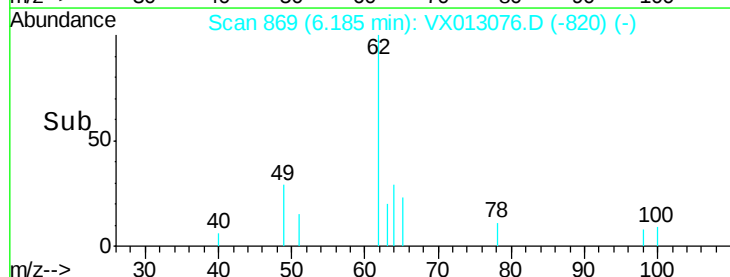
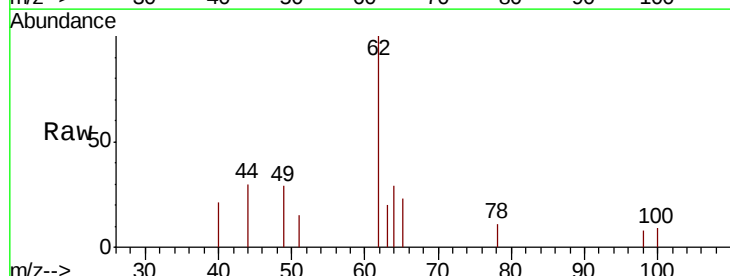
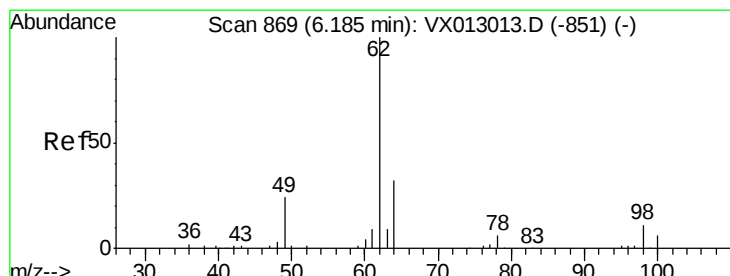
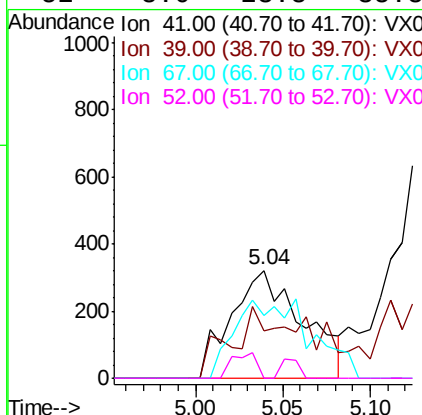
#41
Methacrylonitrile
Concen: 0.621 ug/l
RT: 5.04 min Scan# 681
Delta R.T. 0.01 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Tot Ion	Ratio	Lower	Upper
41	100		
39	37.0	44.0	66.0#
67	0.0	58.5	87.7#
52	8.0	23.8	35.8#

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

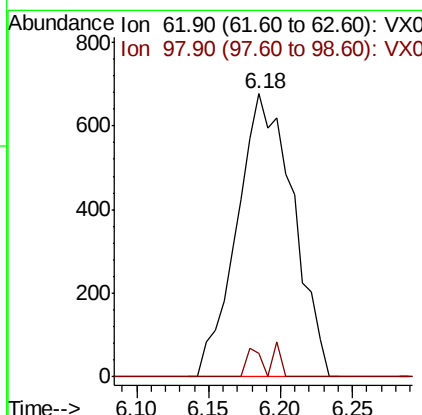
Manual Integrations
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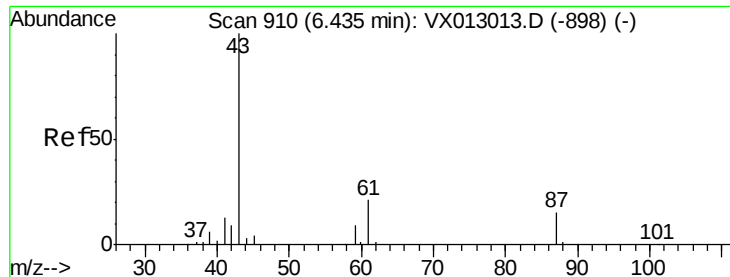
MMDadoda
10/16/2019 9:57:31 AM



#42
1,2-Dichloroethane
Concen: 0.719 ug/l
RT: 6.18 min Scan# 869
Delta R.T. -0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Tgt Ion	Ratio	Lower	Upper
62	100		
98	2.5	0.0	20.4





#43

Isopropyl Acetate

Concen: 0.619 ug/l

RT: 6.43 min Scan# 910

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

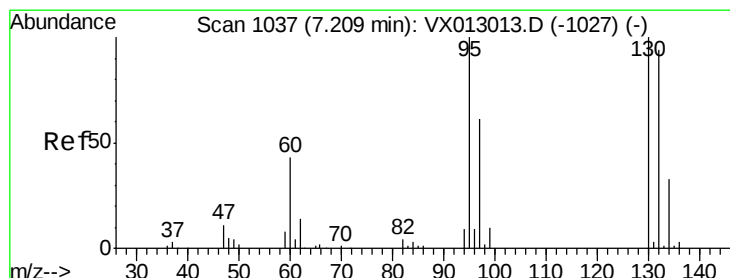
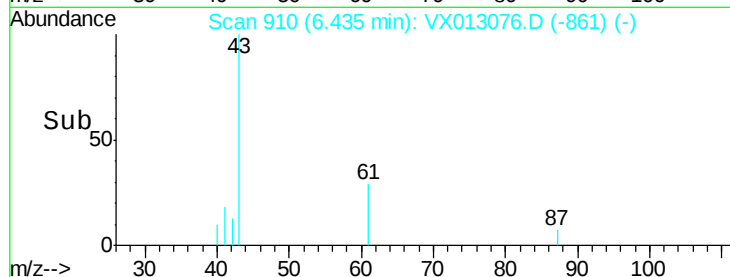
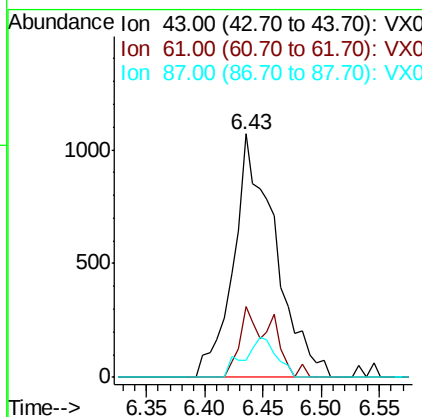
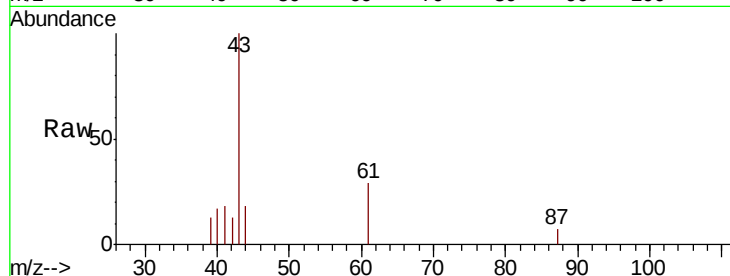
ClientSampleId :

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

Tot Ion:	43	Resp:	2677
Ion	Ratio	Lower	Upper
43	100		
61	12.6	16.6	24.8#
87	12.8	11.0	16.6

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#44

Trichloroethene

Concen: 0.690 ug/l

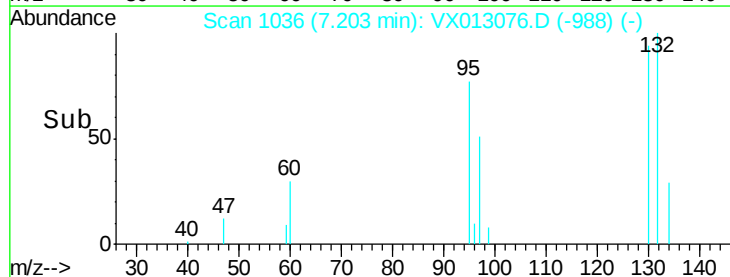
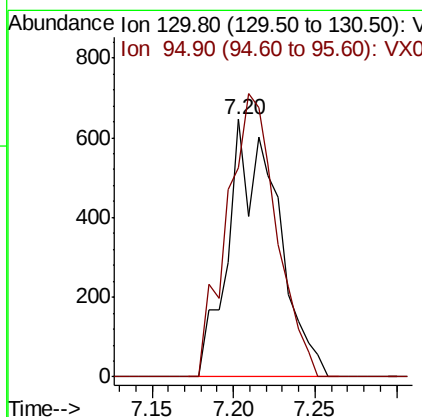
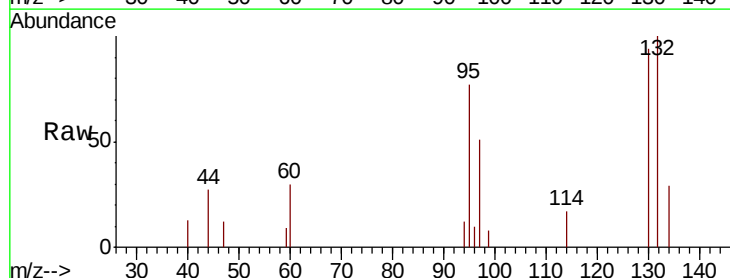
RT: 7.20 min Scan# 1036

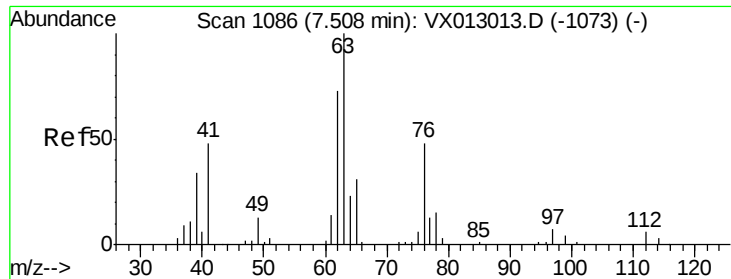
Delta R.T. -0.01 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Tgt Ion:	130	Resp:	1360
Ion	Ratio	Lower	Upper
130	100		
95	81.4	0.0	189.2





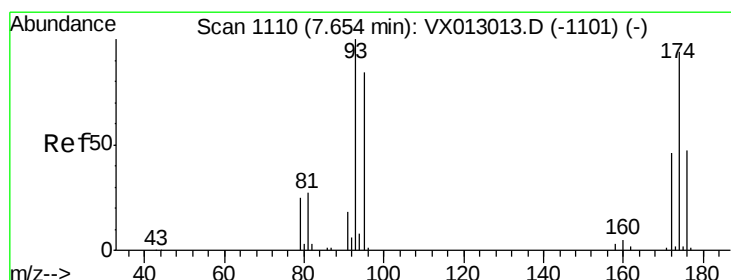
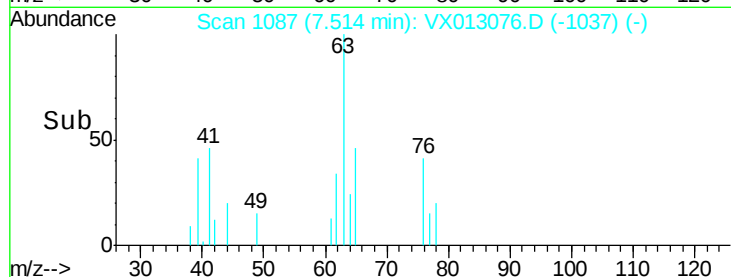
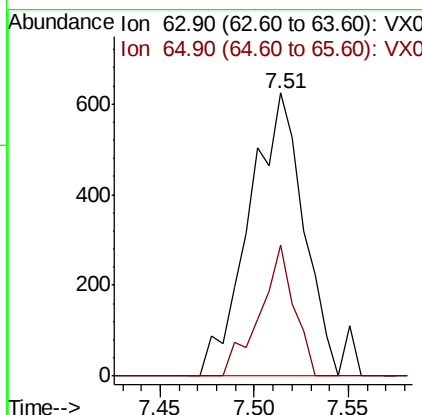
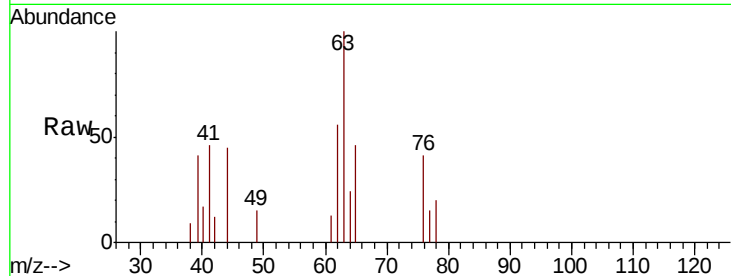
#45
 1,2-Dichloropropane
 Concen: 0.690 ug/l
 RT: 7.51 min Scan# 1087
 Delta R.T. 0.01 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

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

Tot Ion: 63 Resp: 1251
 Ion Ratio Lower Upper
 63 100
 65 46.3 24.6 37.0#

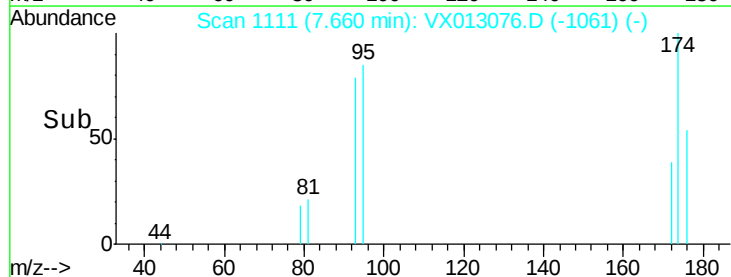
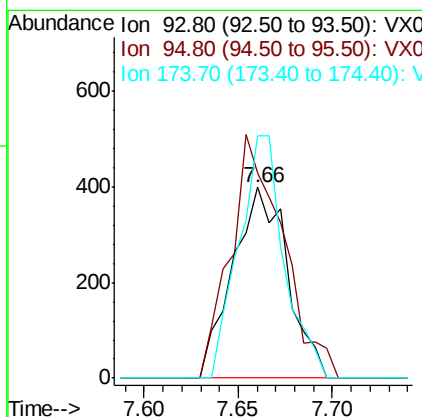
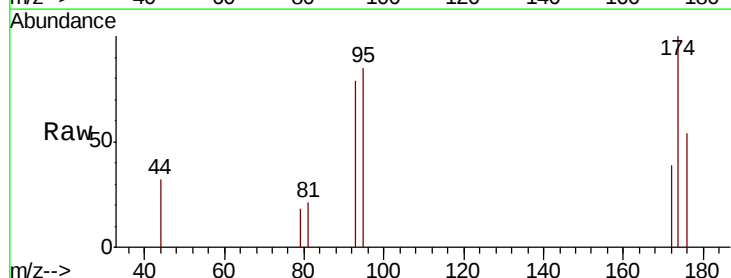
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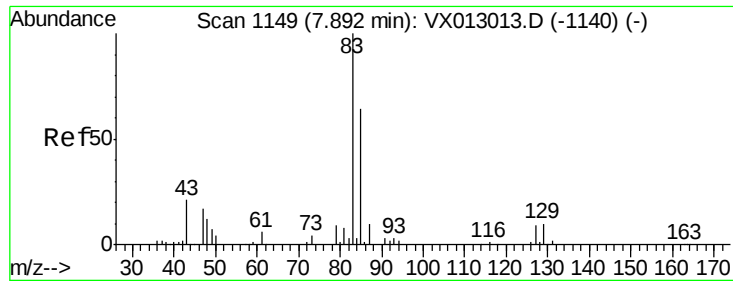
MMDadoda
 10/16/2019 9:57:31 AM



#46
 Dibromomethane
 Concen: 0.664 ug/l
 RT: 7.66 min Scan# 1111
 Delta R.T. 0.01 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

Tgt Ion: 93 Resp: 802
 Ion Ratio Lower Upper
 93 100
 95 122.6 66.3 99.5#
 174 105.7 77.8 116.6





#47

Bromodichloromethane

Concen: 0.674 ug/l

RT: 7.89 min Scan# 1149

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

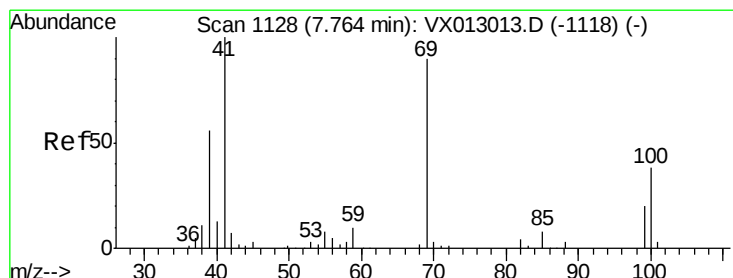
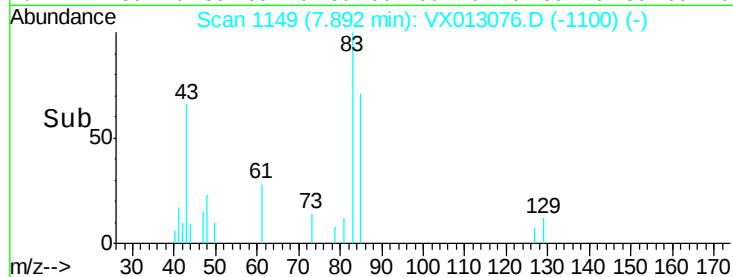
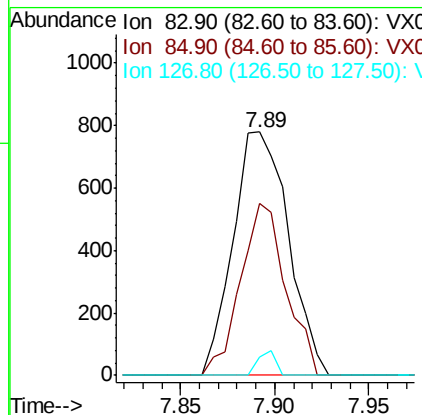
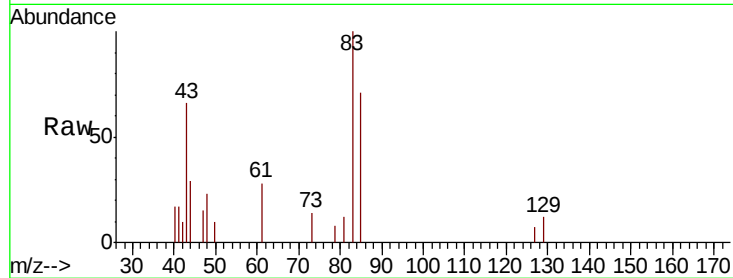
ClientSampleId :

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

Tot Ion:	83	Resp:	1588
Ion	Ratio	Lower	Upper
83	100		
85	70.5	52.4	78.6
127	7.4	6.6	10.0

Manual Integrations
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MMDadoda
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#48

Methyl methacrylate

Concen: 0.576 ug/l

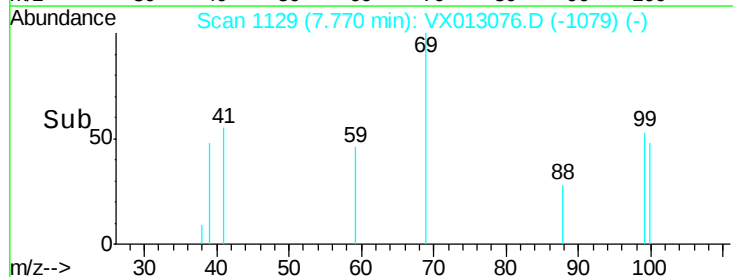
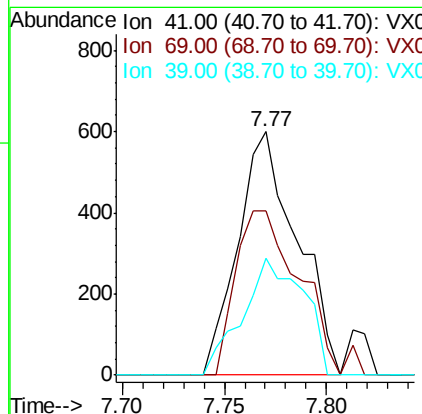
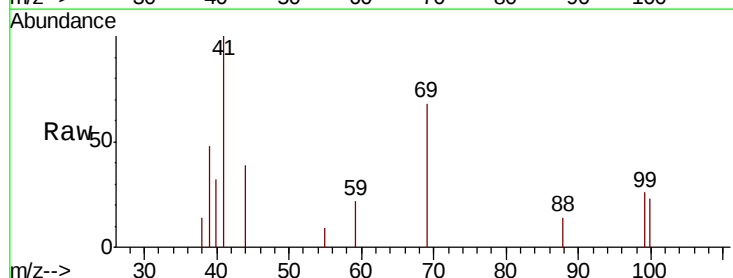
RT: 7.77 min Scan# 1129

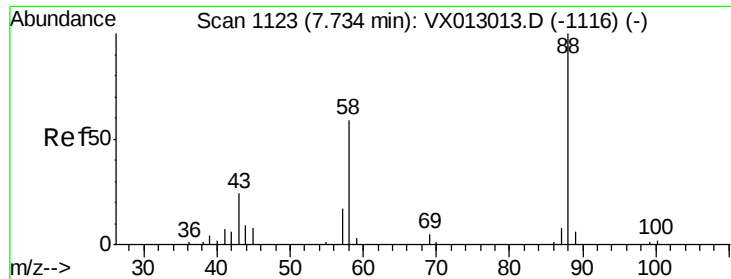
Delta R.T. 0.01 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Tgt Ion:	41	Resp:	1212
Ion	Ratio	Lower	Upper
41	100		
69	74.0	68.7	103.1
39	49.5	44.3	66.5





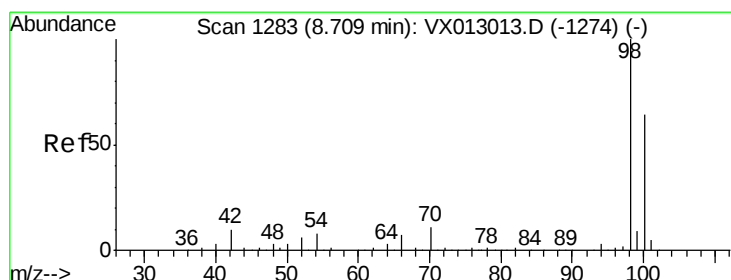
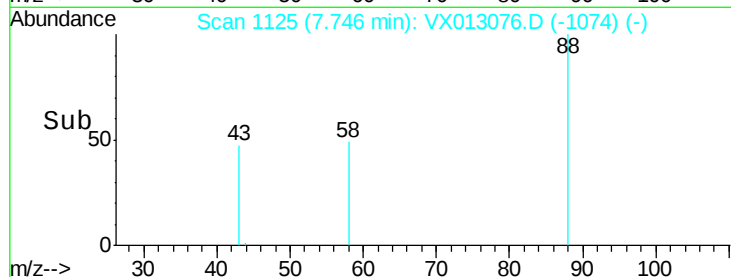
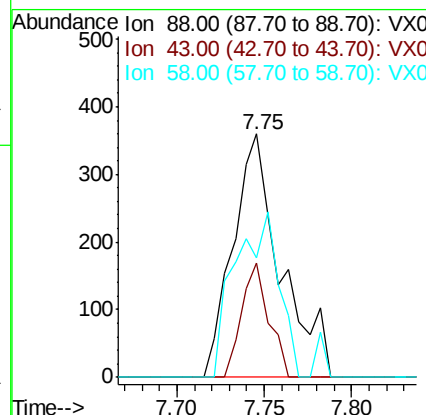
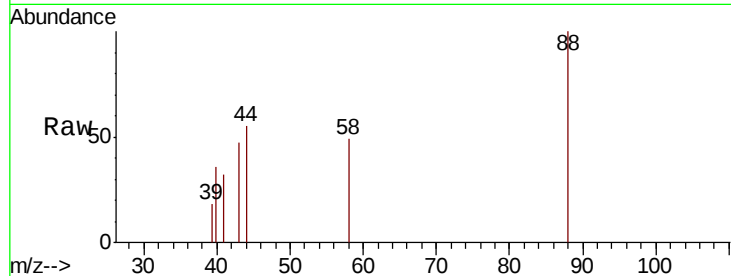
#49
1,4-Dioxane
Concen: 13.435 ug/l
RT: 7.75 min Scan# 1125
Delta R.T. 0.01 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

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

Tot Ion	Ratio	Lower	Upper
88	100		
43	26.5	25.0	37.6
58	62.4	55.4	83.2

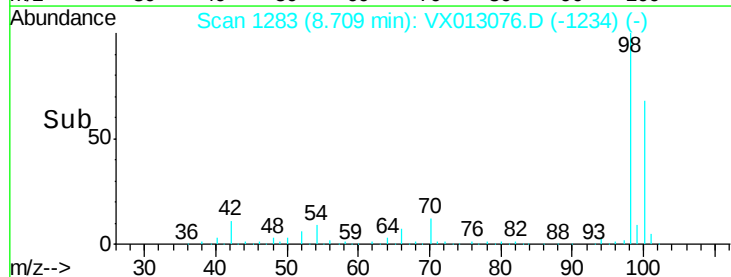
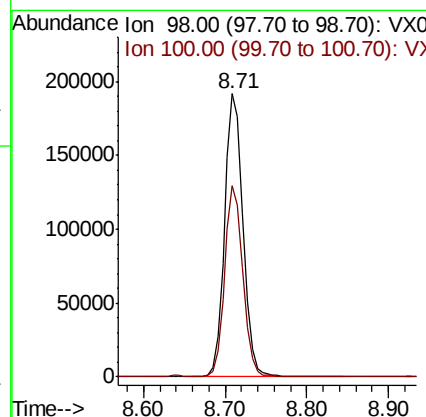
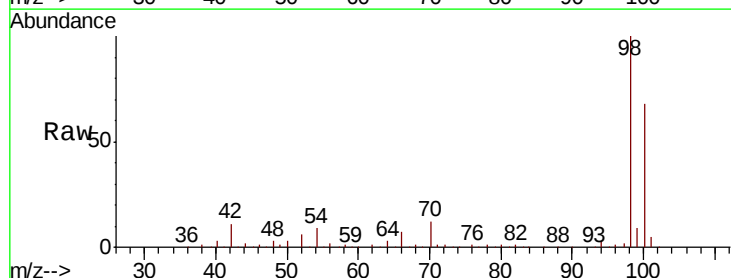
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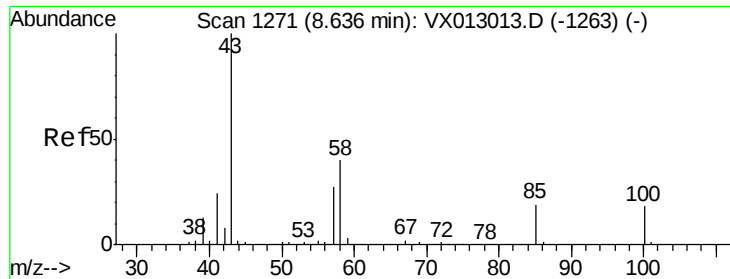
MMDadoda
10/16/2019 9:57:31 AM



#50
Toluene-d8
Concen: 49.221 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.9	53.4	80.2





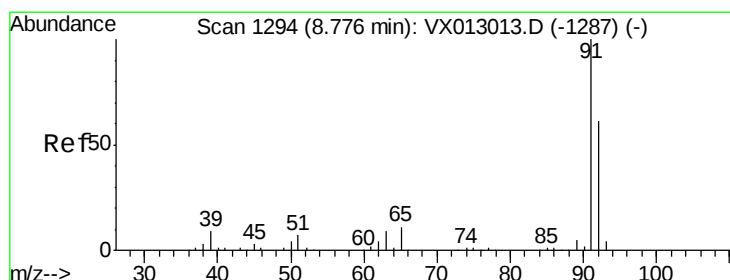
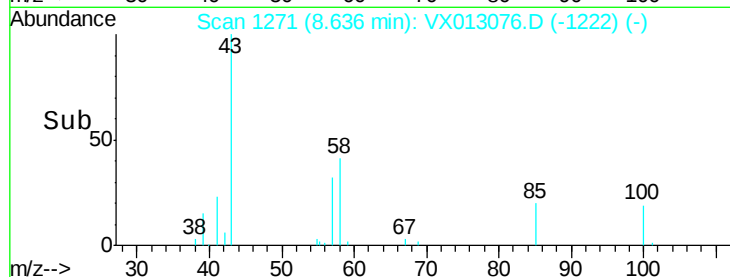
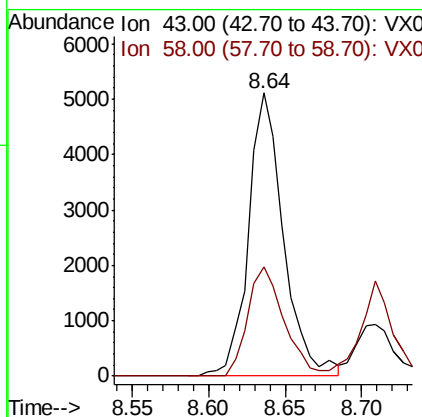
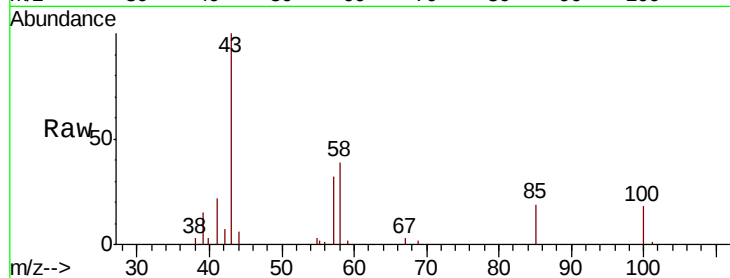
#51
4-Methyl-2-Pentanone
Concen: 3.023 ug/l
RT: 8.64 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

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

Tot Ion: 43 Resp: 8144
Ion Ratio Lower Upper
43 100
58 39.7 32.4 48.6

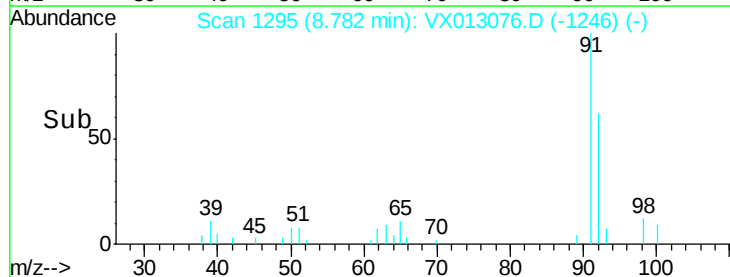
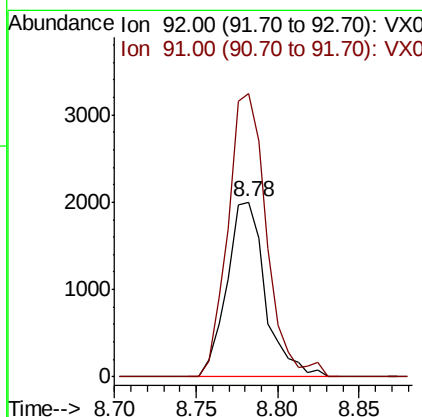
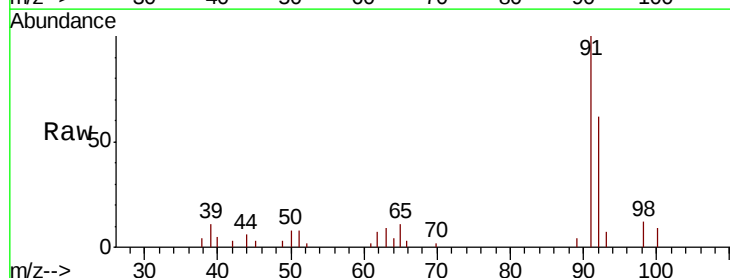
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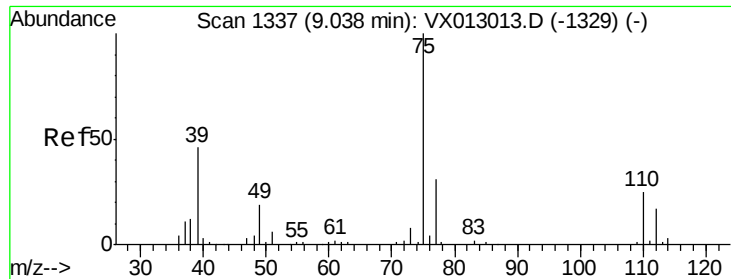
MMDadoda
10/16/2019 9:57:31 AM



#52
Toluene
Concen: 0.725 ug/l
RT: 8.78 min Scan# 1295
Delta R.T. -0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Tgt Ion: 92 Resp: 3297
Ion Ratio Lower Upper
92 100
91 162.2 135.9 203.9





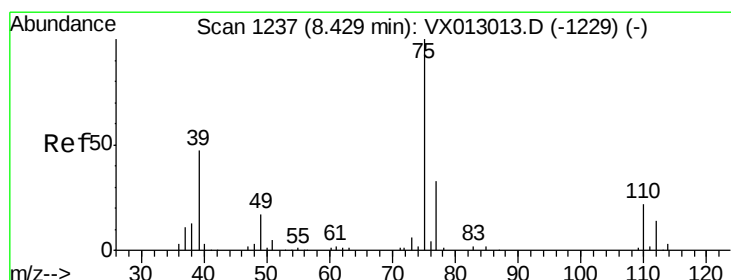
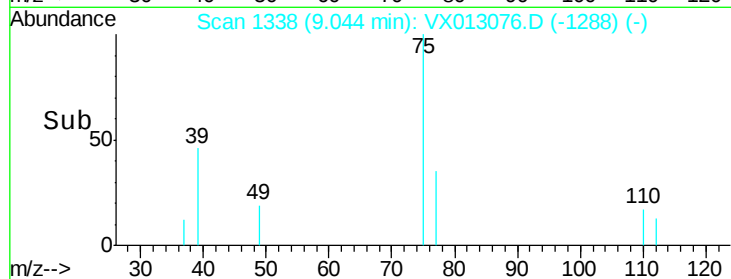
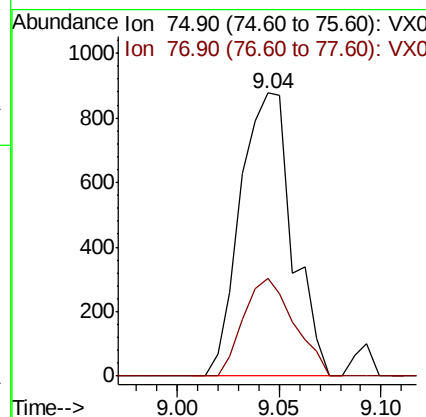
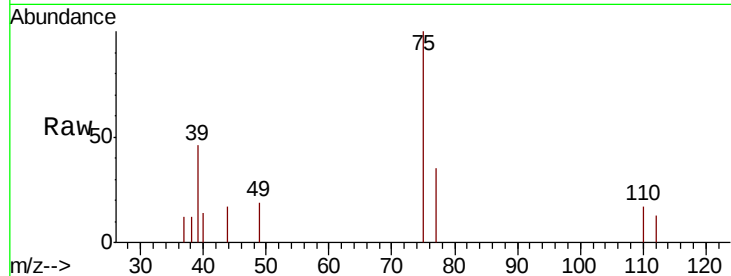
#53
t-1,3-Dichloropropene
Concen: 0.599 ug/l
RT: 9.04 min Scan# 1338
Delta R.T. 0.01 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

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

Tot Ion: 75 Resp: 1563
Ion Ratio Lower Upper
75 100
77 34.7 25.8 38.6

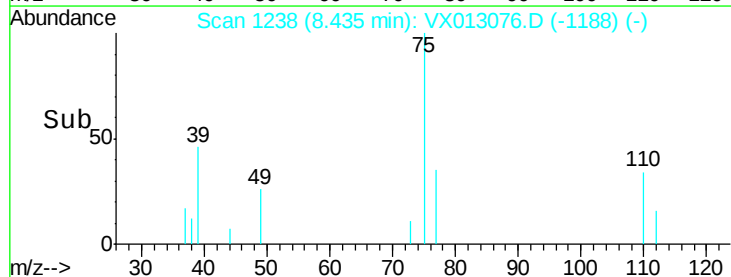
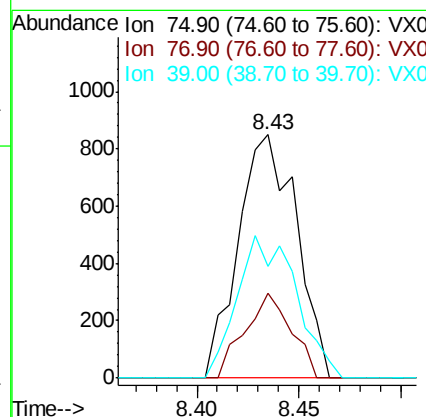
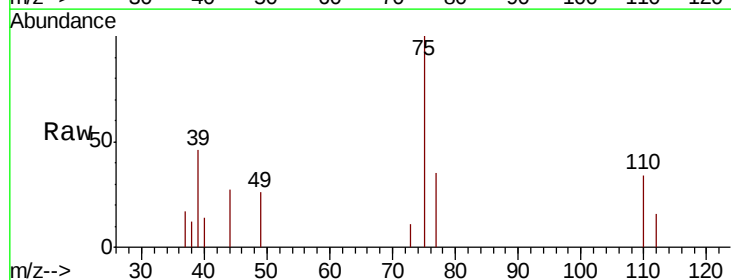
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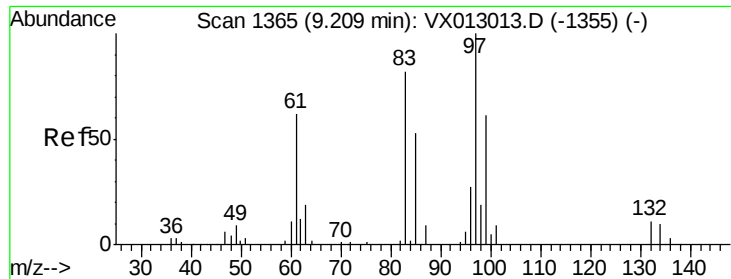
MMDadoda
10/16/2019 9:57:31 AM



#54
cis-1,3-Dichloropropene
Concen: 0.580 ug/l
RT: 8.43 min Scan# 1238
Delta R.T. 0.01 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Tgt Ion: 75 Resp: 1680
Ion Ratio Lower Upper
75 100
77 34.9 25.8 38.8
39 46.0 38.2 57.2





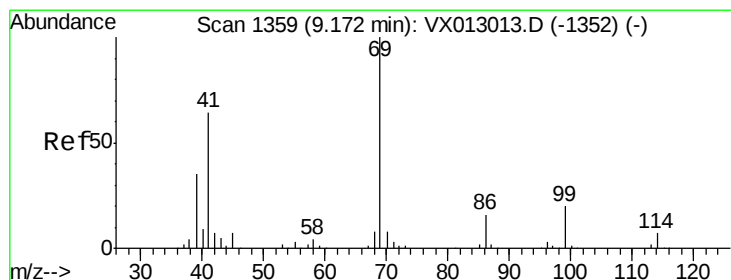
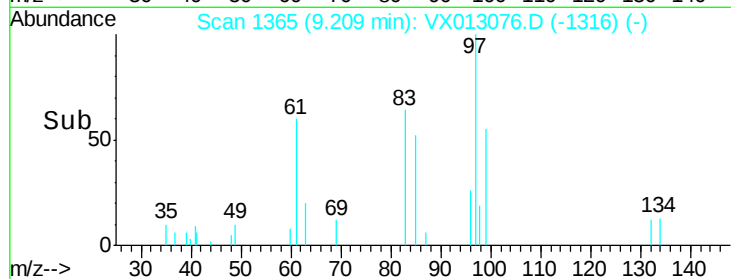
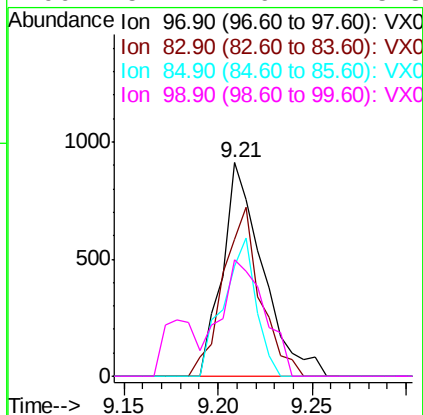
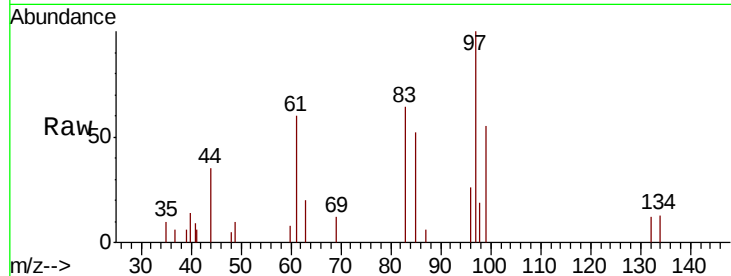
#55
1,1,2-Trichloroethane
Concen: 0.751 ug/l
RT: 9.21 min Scan# 1365
Delta R.T. -0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

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

Tot Ion:	97	Resp:	1352
Ion	Ratio	Lower	Upper
97	100		
83	64.0	66.5	99.7#
85	51.7	43.1	64.7
99	54.7	49.2	73.8

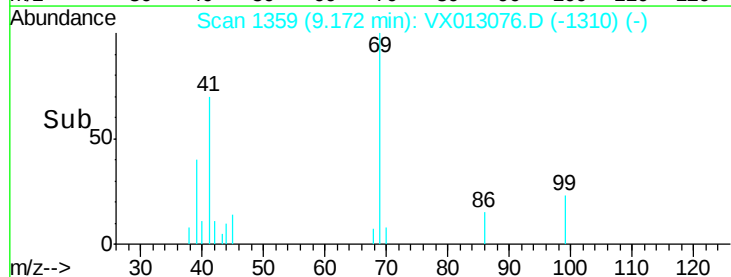
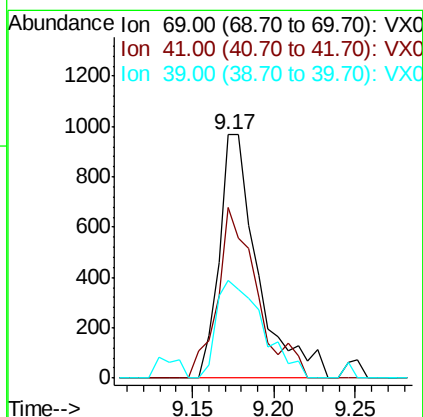
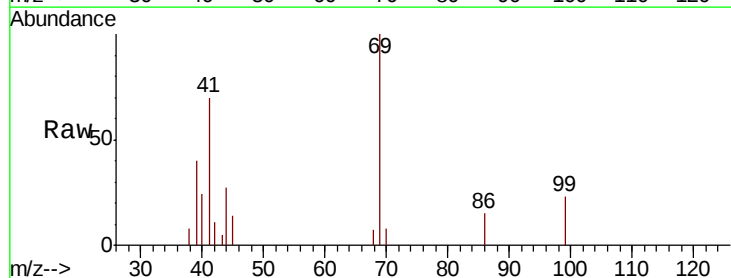
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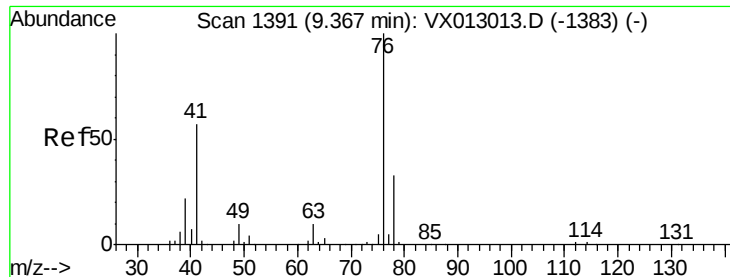
MMDadoda
10/16/2019 9:57:31 AM



#56
Ethyl methacrylate
Concen: 0.547 ug/l
RT: 9.17 min Scan# 1359
Delta R.T. 0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Tgt Ion:	69	Resp:	1594
Ion	Ratio	Lower	Upper
69	100		
41	71.4	52.1	78.1
39	48.2	27.8	41.8#





#57

1,3-Dichloropropane

Concen: 0.644 ug/l

RT: 9.37 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

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

Tot Ion: 76 Resp: 2007

Ion Ratio Lower Upper

76 100

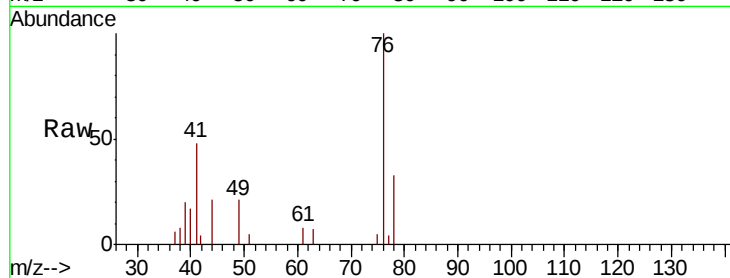
78 40.4 26.1 39.1#

Manual Integrations

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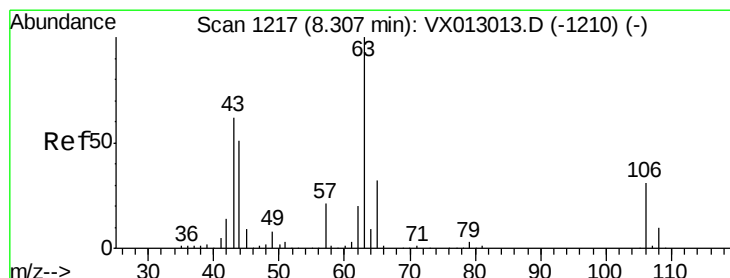
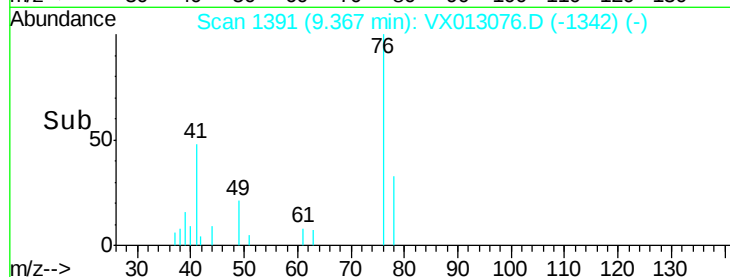
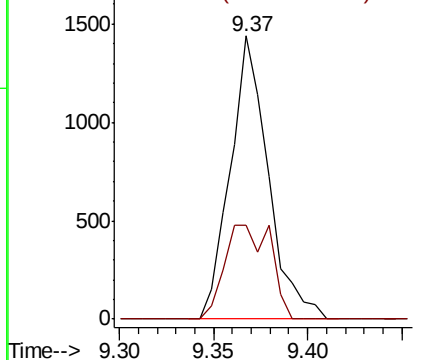
MMDadoda

10/16/2019 9:57:31 AM



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#58

2-Chloroethyl Vinyl ether

Concen: 2.671 ug/l

RT: 8.31 min Scan# 1217

Delta R.T. -0.00 min

Lab File: VX013076.D

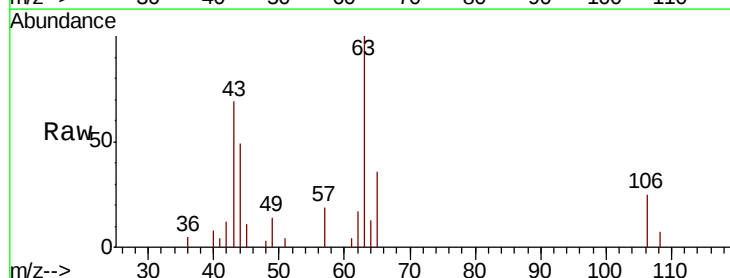
Acq: 15 Oct 2019 14:30

Tgt Ion: 63 Resp: 3533

Ion Ratio Lower Upper

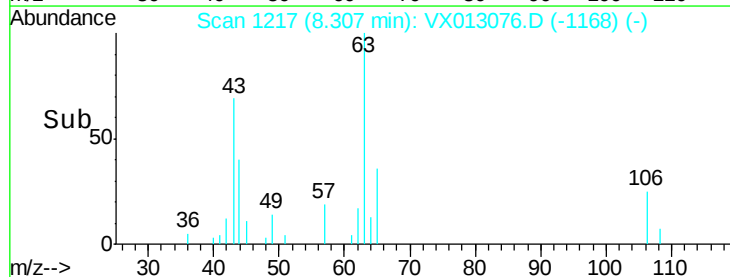
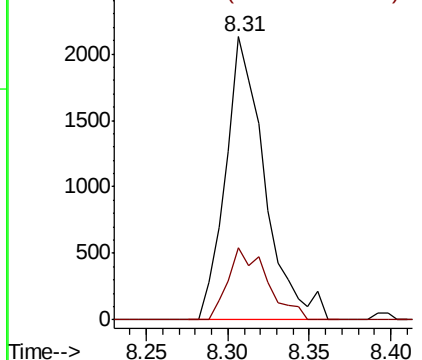
63 100

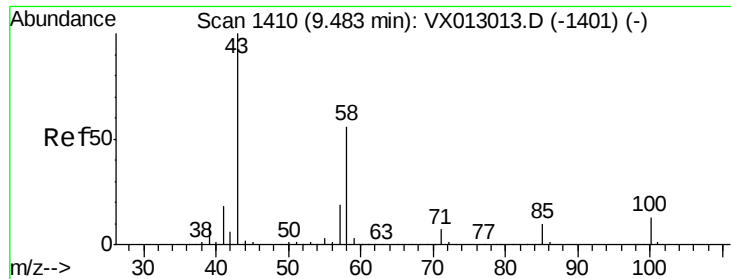
106 25.6 23.8 35.8



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V





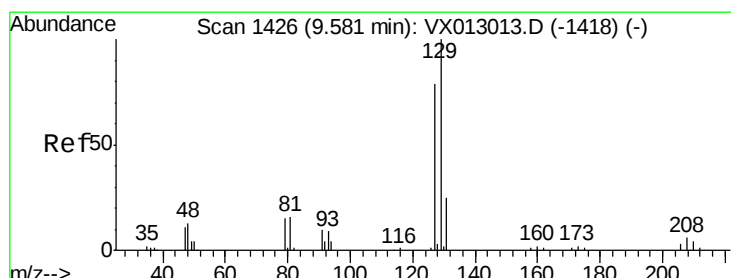
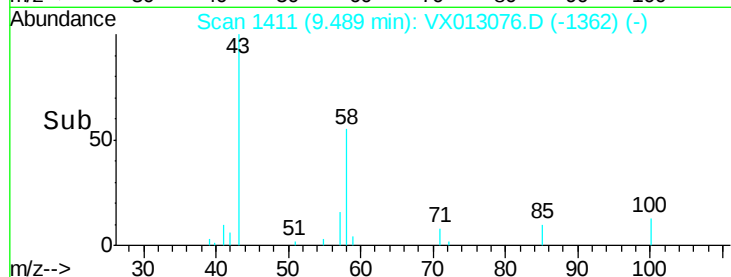
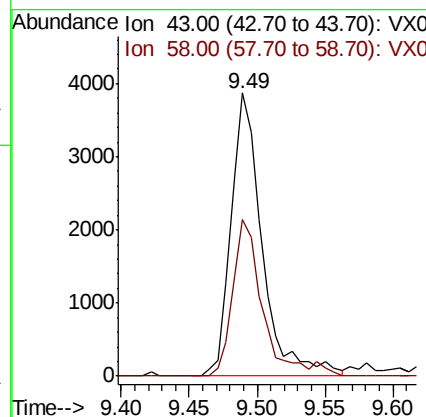
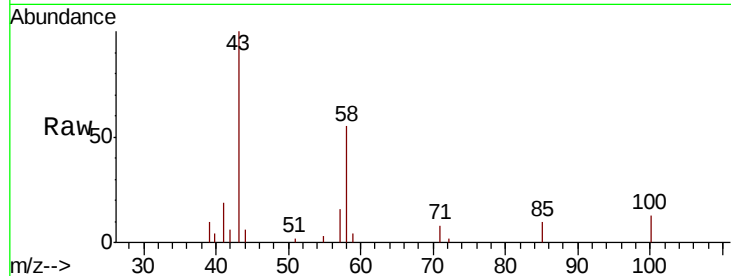
#59
2-Hexanone
Concen: 2.936 ug/l
RT: 9.49 min Scan# 1411
Delta R.T. -0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

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

Tot Ion: 43 Resp: 6157
Ion Ratio Lower Upper
43 100
58 51.6 28.1 84.3

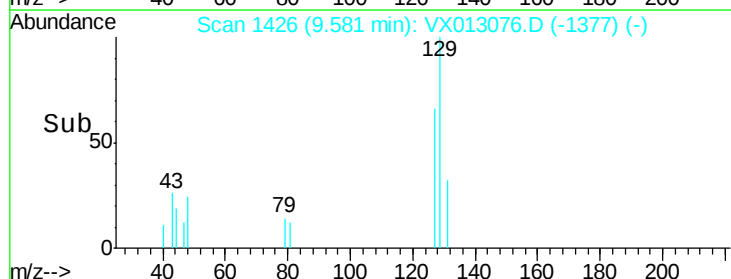
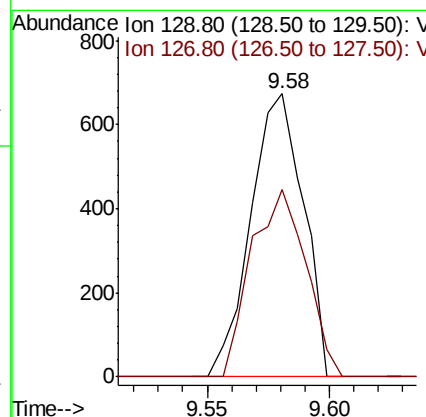
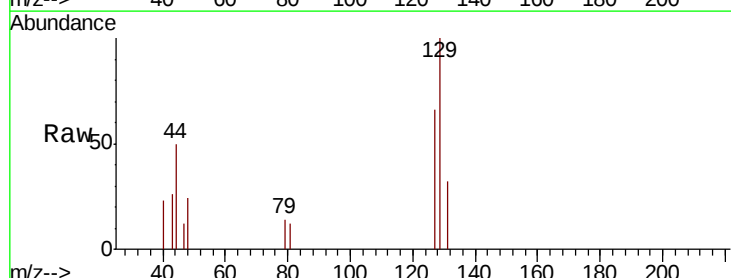
Manual Integrations
APPROVED

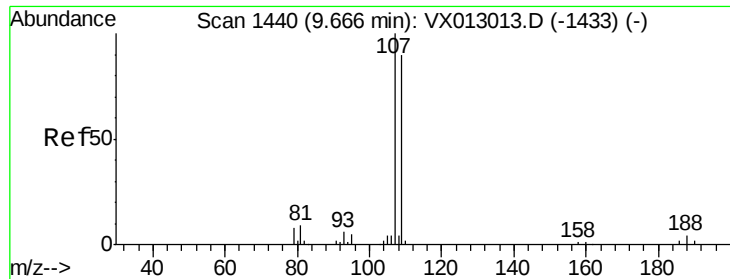
MMDadoda
10/16/2019 9:57:31 AM



#60
Dibromochloromethane
Concen: 0.572 ug/l
RT: 9.58 min Scan# 1426
Delta R.T. 0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Tgt Ion: 129 Resp: 1010
Ion Ratio Lower Upper
129 100
127 69.0 38.9 116.7





#61

1,2-Dibromoethane

Concen: 0.631 ug/l

RT: 9.67 min Scan# 1440

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

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

Tot Ion: 107 Resp: 1196

Ion Ratio Lower Upper

107 100

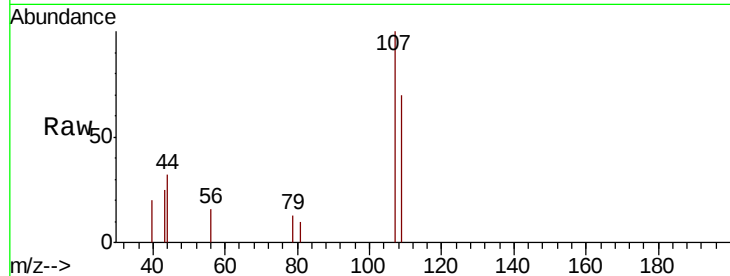
109 85.5 75.8 113.6

Manual Integrations

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10/16/2019 9:57:31 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

9.67

800

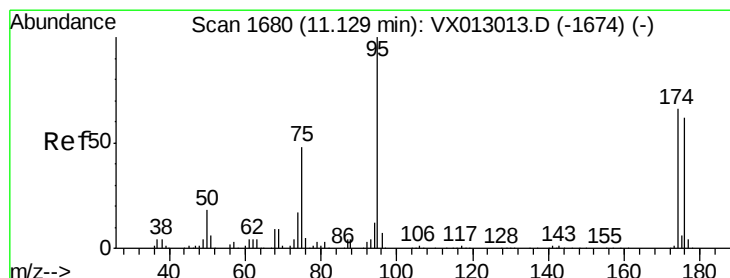
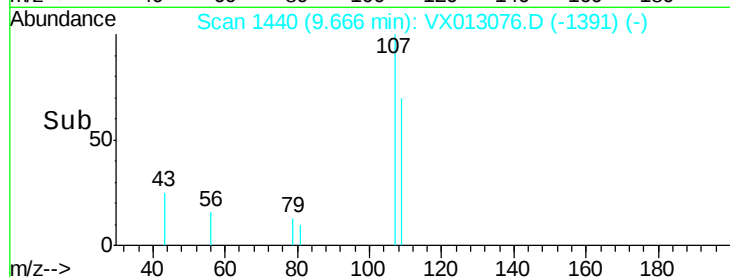
600

400

200

0

Time--> 9.60 9.65 9.70



#62

4-Bromofluorobenzene

Concen: 46.170 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

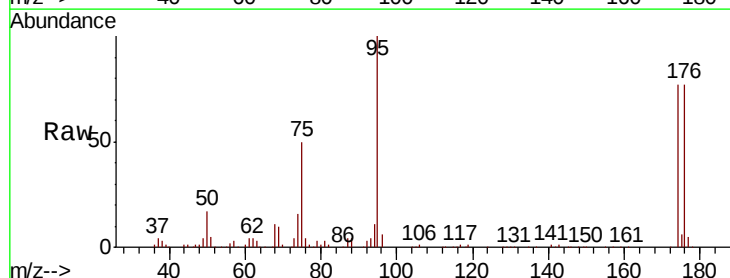
Tgt Ion: 95 Resp: 109977

Ion Ratio Lower Upper

95 100

174 73.2 0.0 143.4

176 72.0 0.0 136.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.14

100000

80000

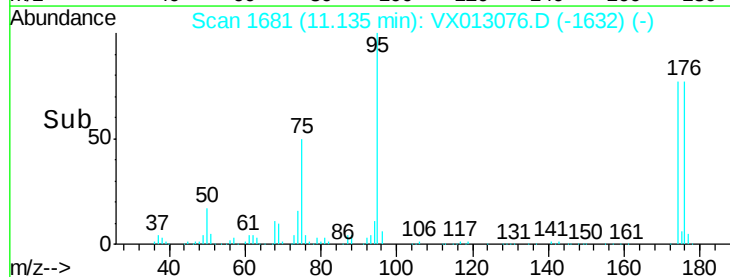
60000

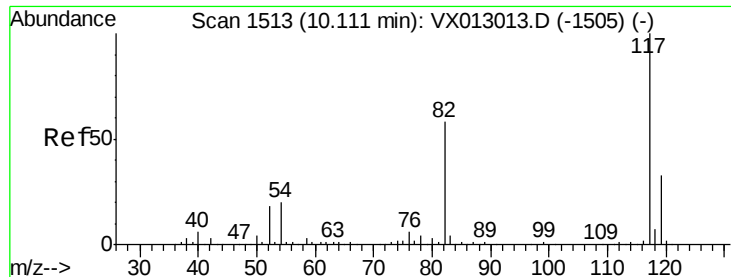
40000

20000

0

Time--> 11.10 11.20





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

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

Tot Ion:117 Resp: 241178

Ion Ratio Lower Upper

117 100

82 57.1 44.1 66.1

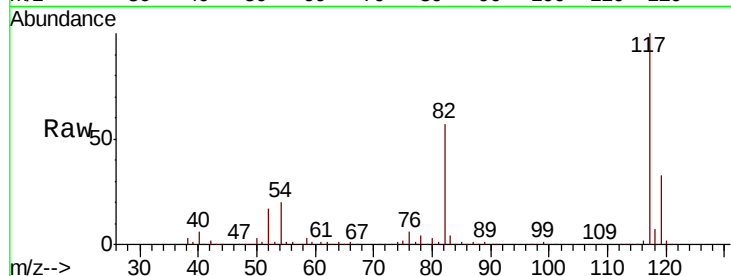
119 32.9 25.8 38.8

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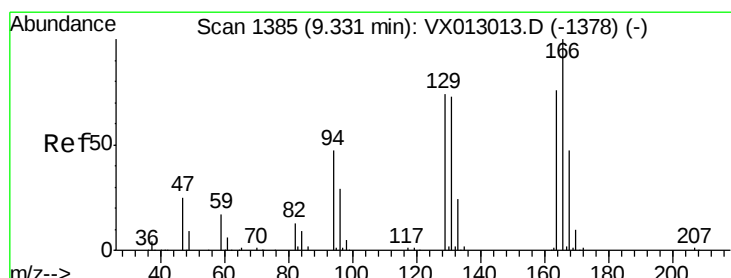
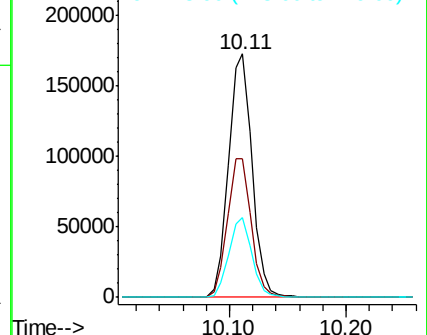
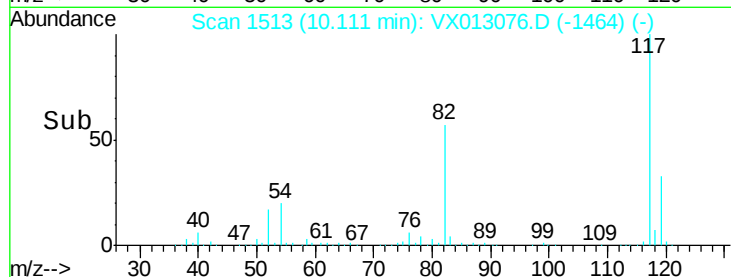
10/16/2019 9:57:31 AM



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 0.821 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Tgt Ion:164 Resp: 1374

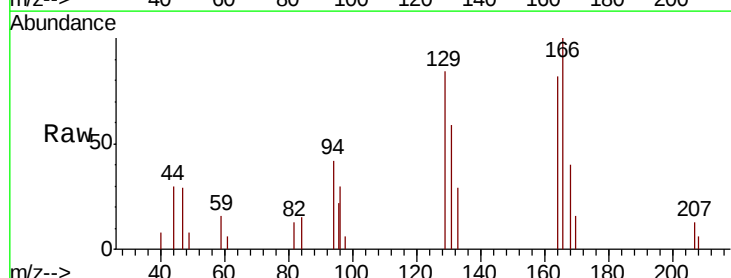
Ion Ratio Lower Upper

164 100

166 121.8 96.9 145.3

129 102.3 77.9 116.9

131 71.6 72.7 109.1#

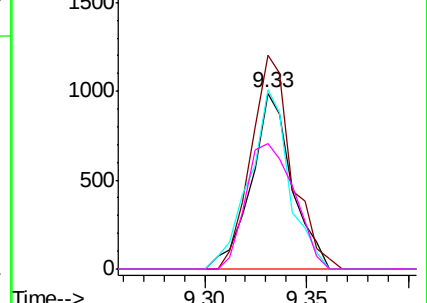
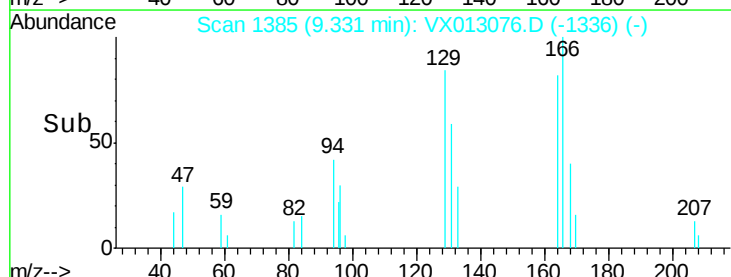


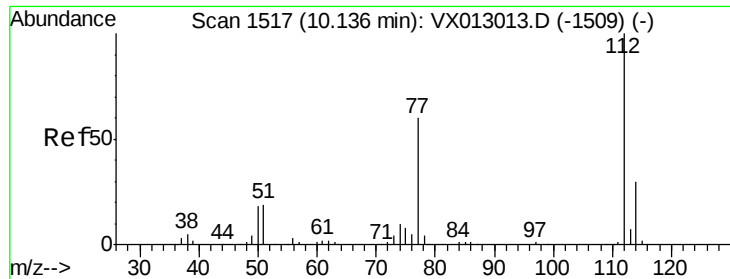
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





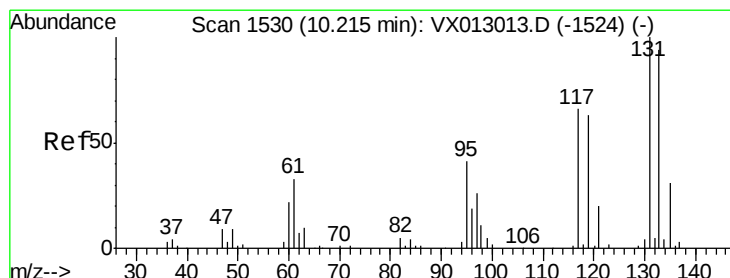
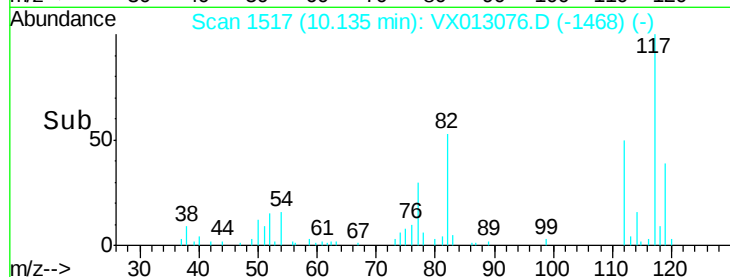
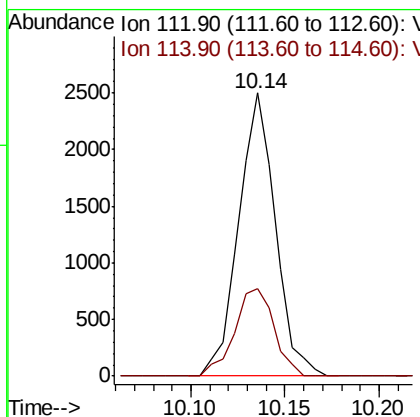
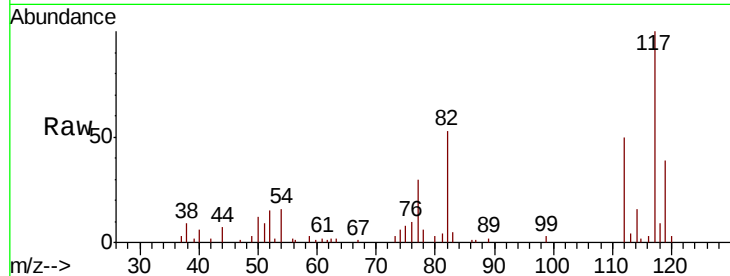
#65
Chlorobenzene
Concen: 0.704 ug/l
RT: 10.14 min Scan# 1517
Delta R.T. -0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

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

Tot Ion:112 Resp: 3371
Ion Ratio Lower Upper
112 100
114 31.0 25.7 38.5

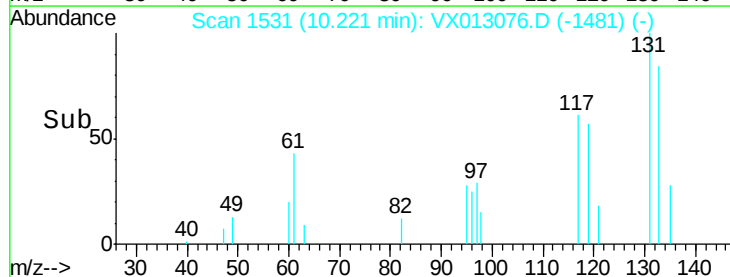
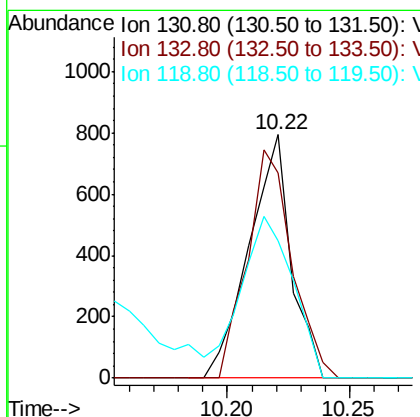
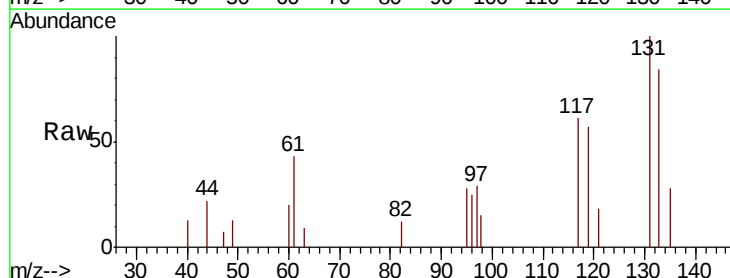
Manual Integrations
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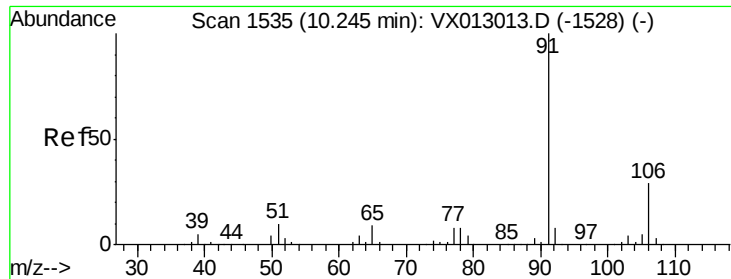
MMDadoda
10/16/2019 9:57:31 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 0.569 ug/l
RT: 10.22 min Scan# 1531
Delta R.T. 0.01 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Tgt Ion:131 Resp: 945
Ion Ratio Lower Upper
131 100
133 99.9 47.2 141.6
119 0.0 32.6 98.0#





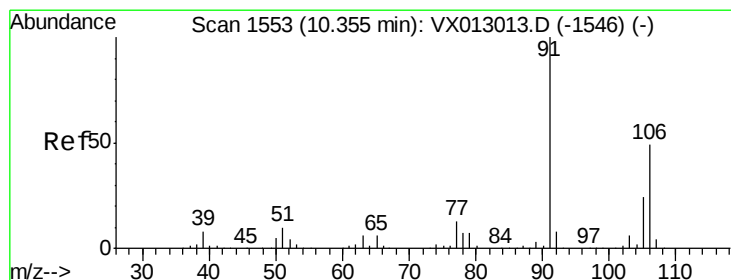
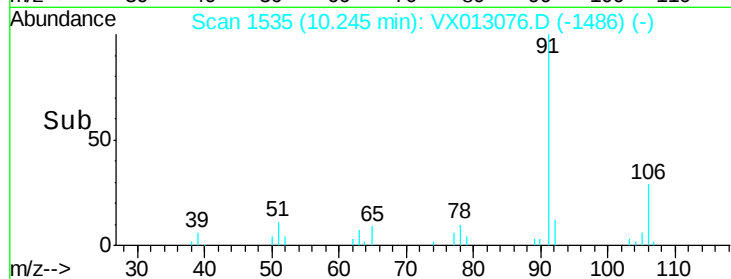
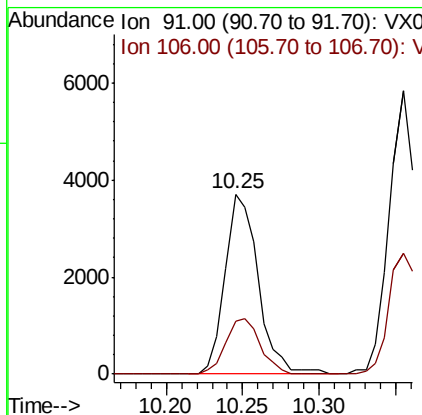
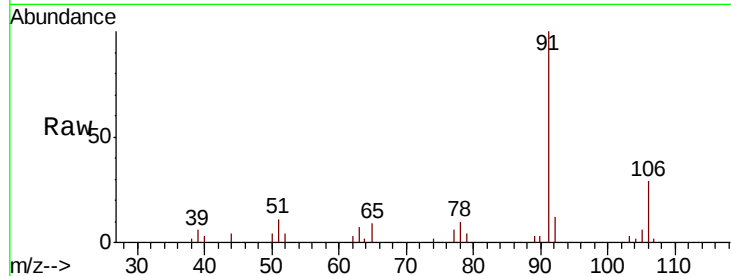
#67
Ethyl Benzene
Concen: 0.657 ug/l
RT: 10.25 min Scan# 1535
Delta R.T. -0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

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

Tot Ion: 91 Resp: 5588
Ion Ratio Lower Upper
91 100
106 29.3 23.9 35.9

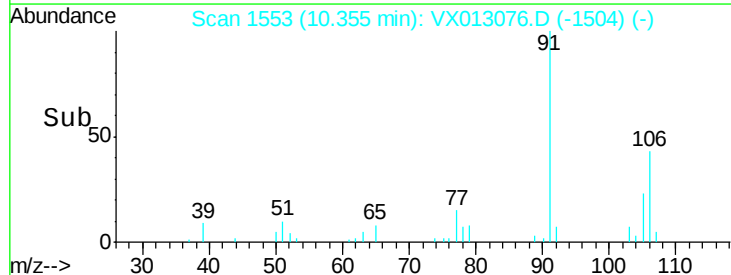
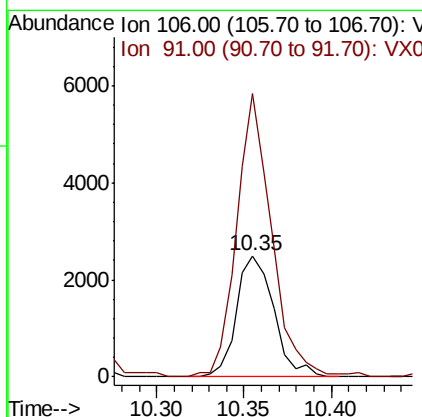
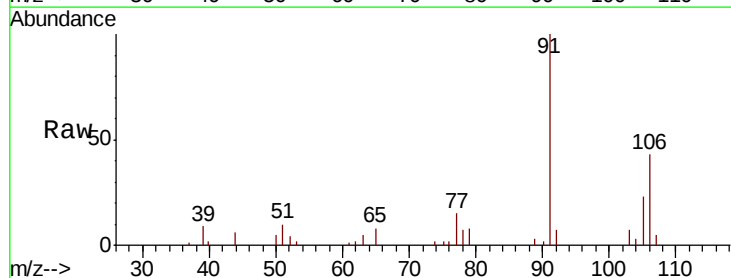
Manual Integrations
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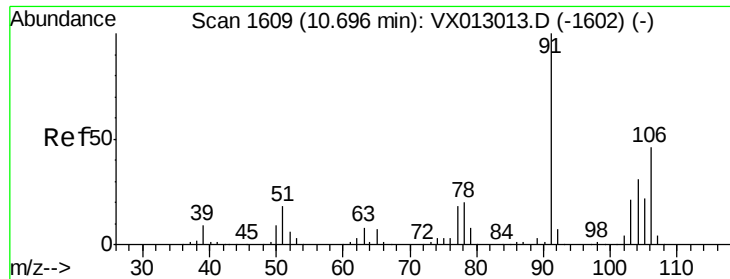
MMDadoda
10/16/2019 9:57:31 AM



#68
m/p-Xylenes
Concen: 1.167 ug/l
RT: 10.35 min Scan# 1553
Delta R.T. -0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Tgt Ion: 106 Resp: 3708
Ion Ratio Lower Upper
106 100
91 219.7 165.3 247.9





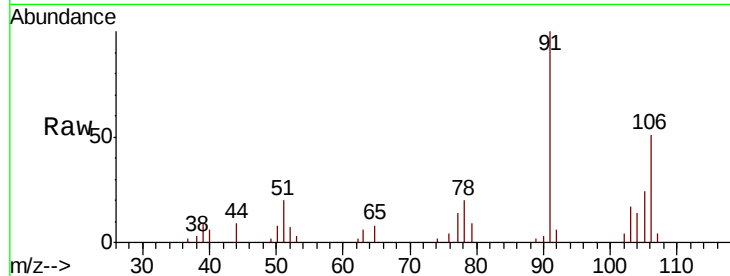
#69
o-Xylene
Concen: 0.684 ug/l
RT: 10.70 min Scan# 1609
Delta R.T. -0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

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

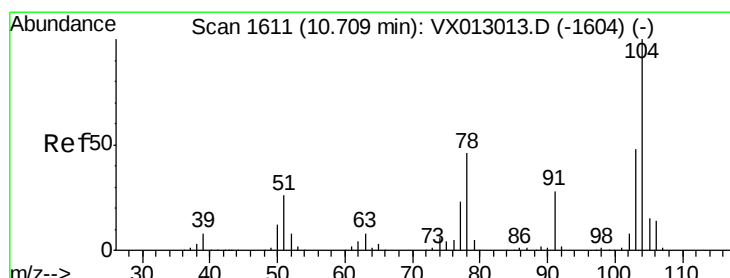
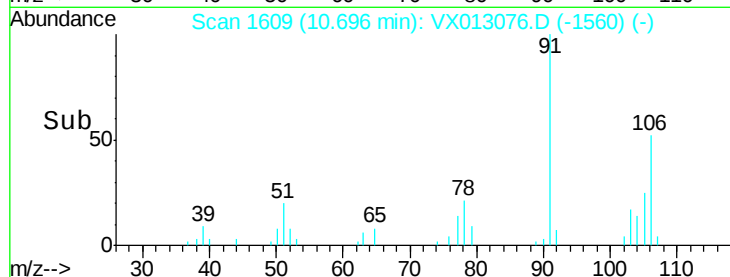
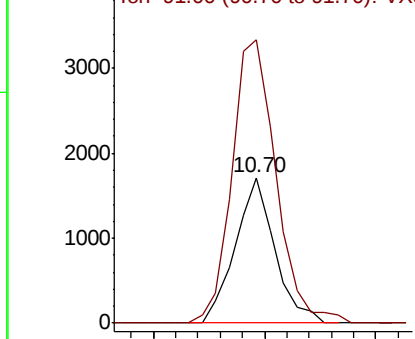
Tot Ion:106 Resp: 2119
Ion Ratio Lower Upper
106 100
91 217.3 109.1 327.3

Manual Integrations
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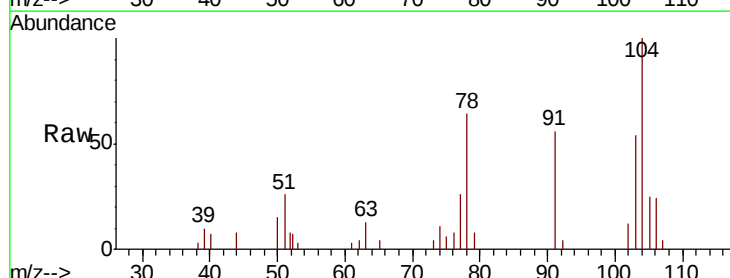


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

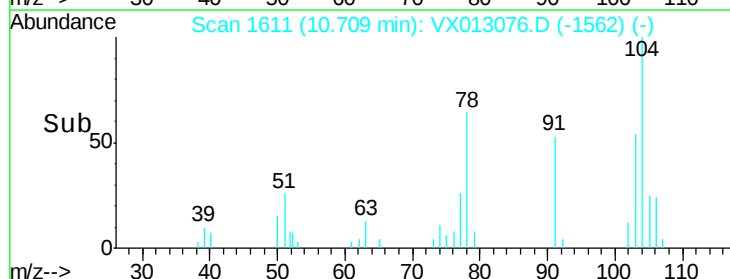
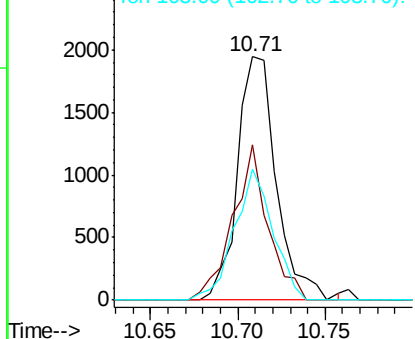


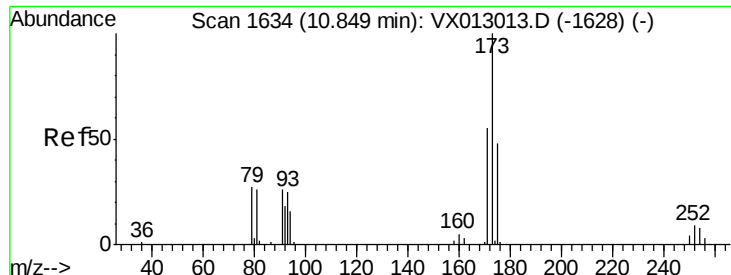
#70
Styrene
Concen: 0.576 ug/l
RT: 10.71 min Scan# 1611
Delta R.T. -0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Tgt Ion:104 Resp: 3036
Ion Ratio Lower Upper
104 100
78 56.8 41.2 61.8
103 52.7 43.0 64.4



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





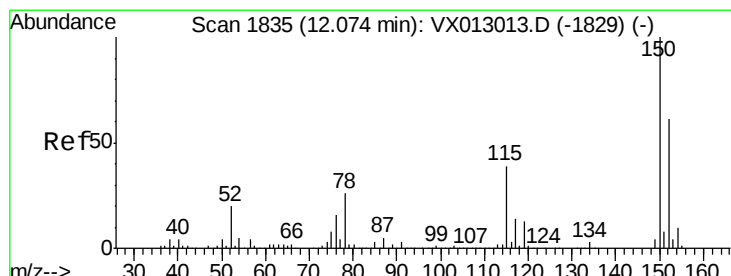
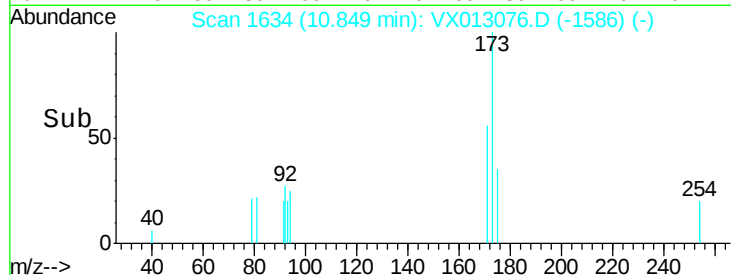
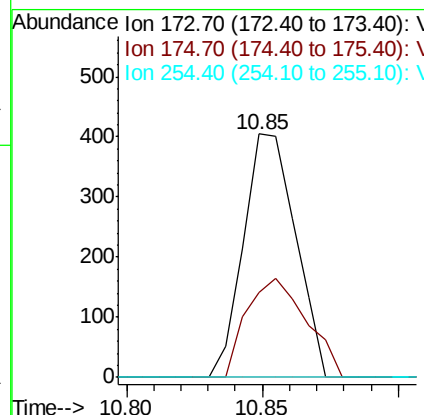
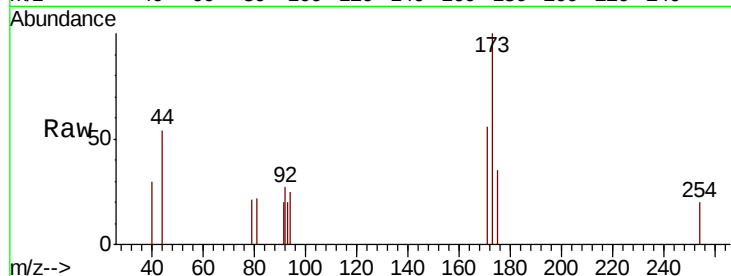
#71
Bromoform
Concen: 0.449 ug/l
RT: 10.85 min Scan# 1634
Delta R.T. -0.01 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

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

Tot Ion:173 Resp: 537
Ion Ratio Lower Upper
173 100
175 46.7 24.1 72.3
254 0.0 0.1 0.1#

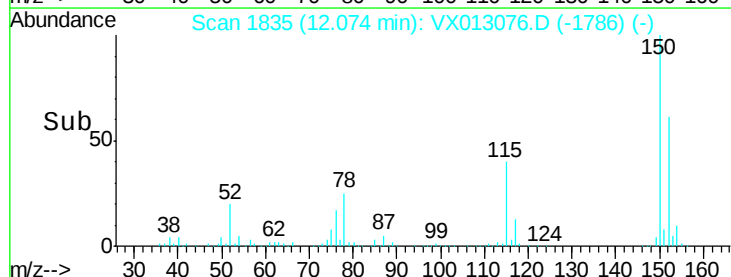
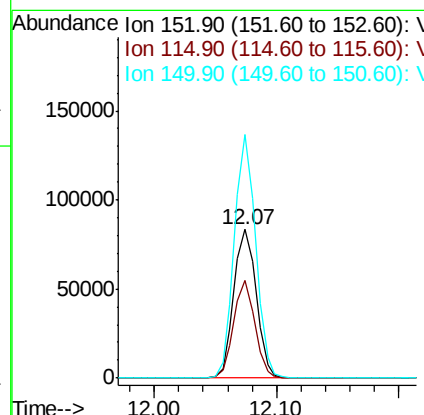
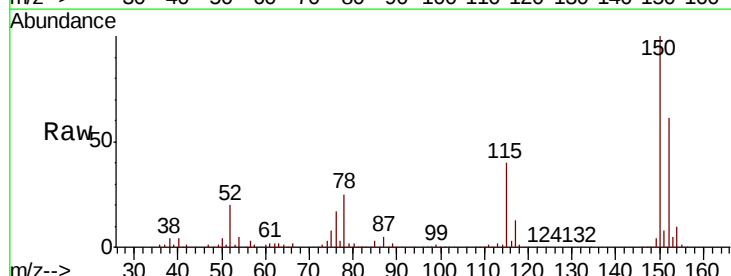
Manual Integrations
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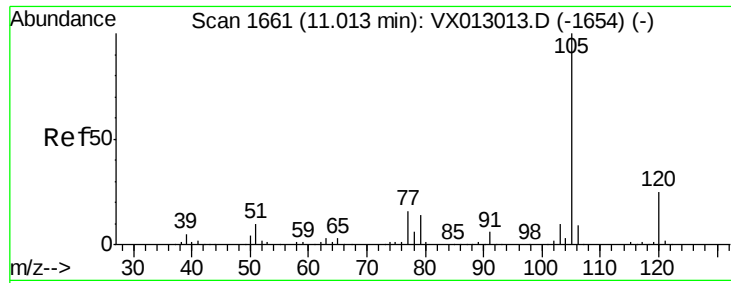
MMDadoda
10/16/2019 9:57:31 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Tgt Ion:152 Resp: 105403
Ion Ratio Lower Upper
152 100
115 62.3 44.5 133.5
150 156.3 0.0 353.4





#73

Isopropylbenzene

Concen: 0.704 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

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

Tot Ion: 105 Resp: 5452

Ion Ratio Lower Upper

105 100

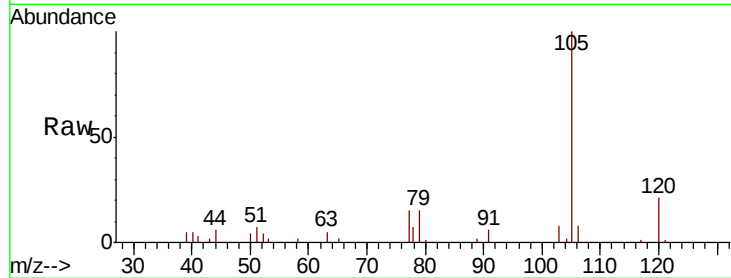
120 24.5 13.0 39.0

Manual Integrations

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10/16/2019 9:57:31 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.01

4000

3000

2000

1000

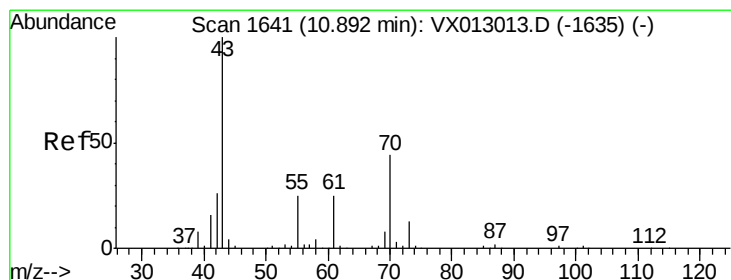
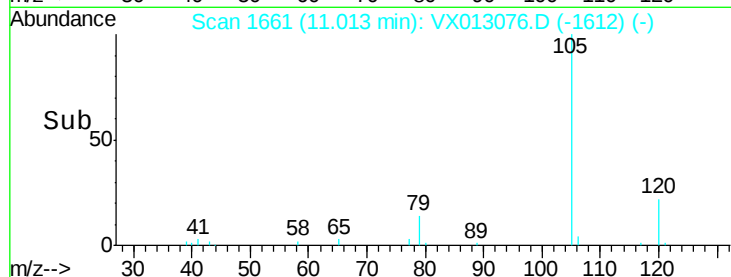
0

Time-->

10.95

11.00

11.05



#74

N-ethyl acetate

Concen: 0.489 ug/l

RT: 10.90 min Scan# 1642

Delta R.T. 0.01 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Tgt Ion: 43 Resp: 1633

Ion Ratio Lower Upper

43 100

70 50.2 36.4 54.6

55 25.1 20.2 30.2

61 25.3 20.5 30.7

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

10.90

1000

500

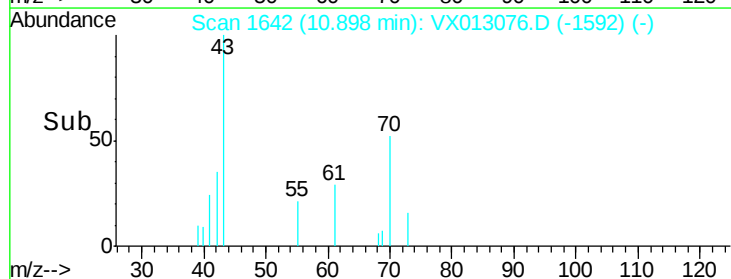
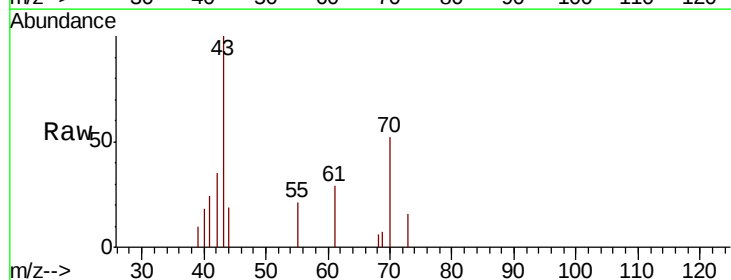
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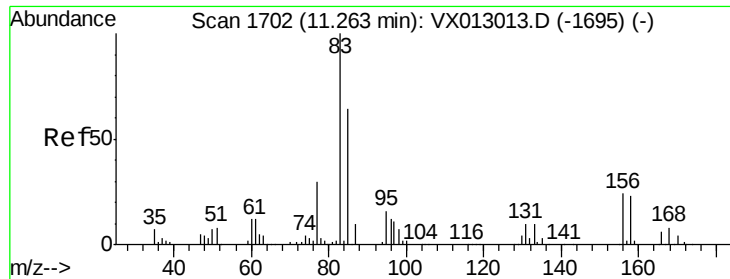
Time-->

10.85

10.90

10.95





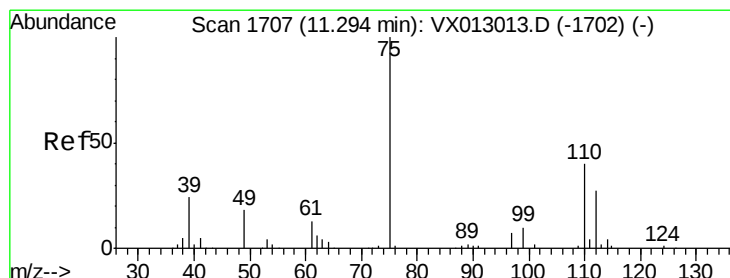
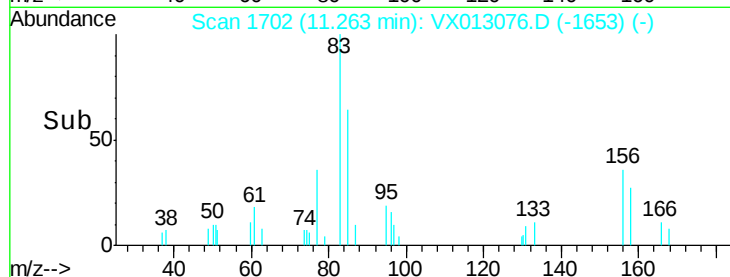
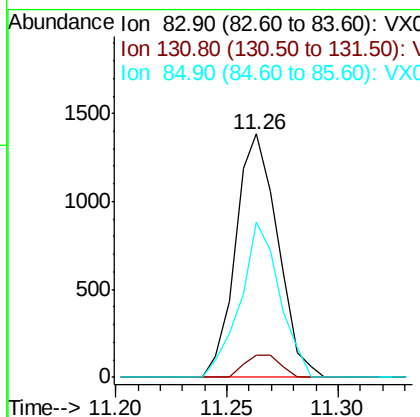
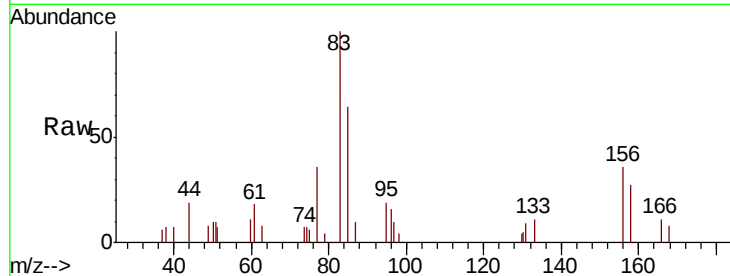
#75
 1,1,2,2-Tetrachloroethane
 Concen: 0.707 ug/l
 RT: 11.26 min Scan# 1702
 Delta R.T. -0.00 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

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

Tot Ion	Ratio	Resp	Lower	Upper
83	100	1823		
131	7.8		5.1	15.3
85	59.6		32.1	96.5

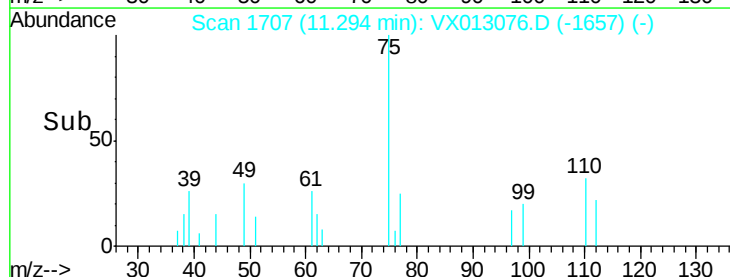
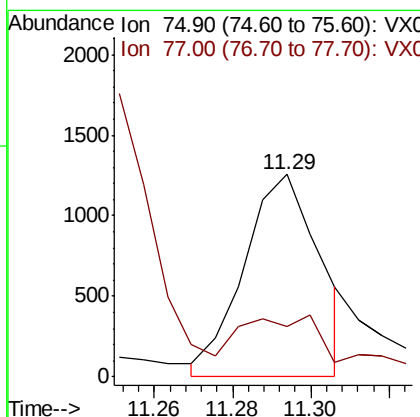
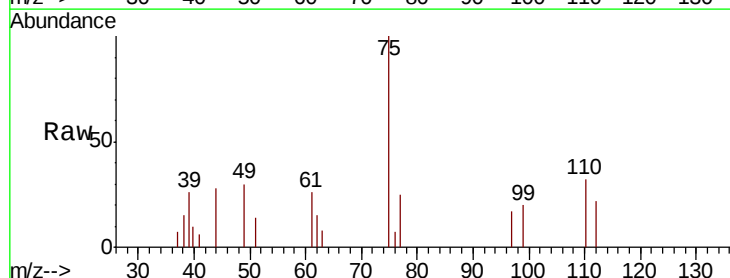
Manual Integrations
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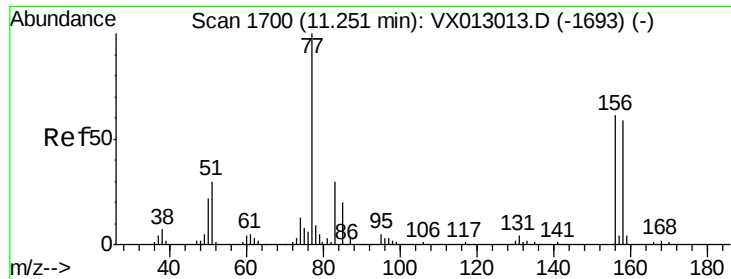
MMDadoda
 10/16/2019 9:57:31 AM



#76
 1,2,3-Trichloropropane
 Concen: 0.720 ug/l m
 RT: 11.29 min Scan# 1707
 Delta R.T. 0.01 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	1684		
77	39.4		22.9	68.8





#77

Bromobenzene

Concen: 0.715 ug/l

RT: 11.25 min Scan# 1700

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

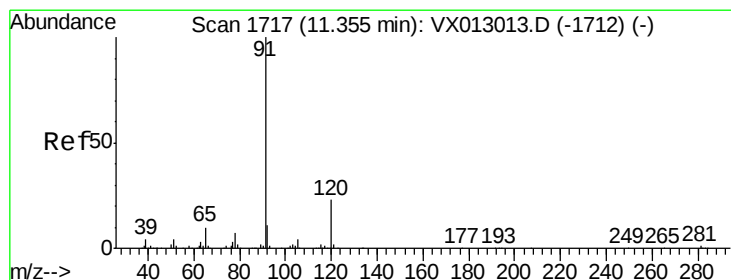
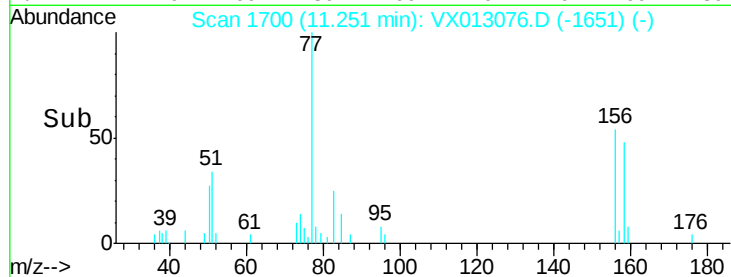
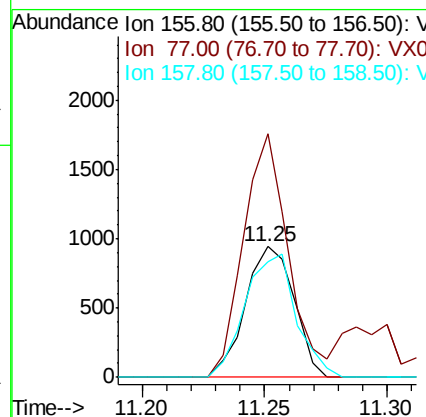
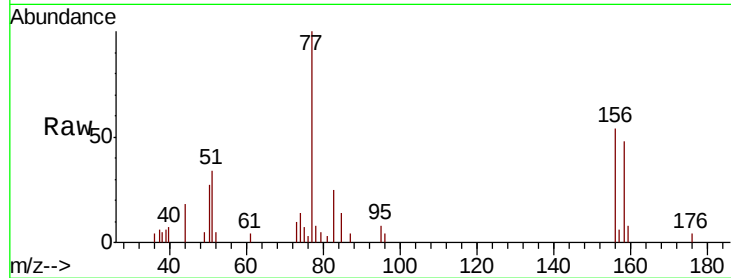
ClientSampleId :

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

Tot Ion:	156	Resp:	1305
Ion	Ratio	Lower	Upper
156	100		
77	171.0	83.7	251.0
158	99.3	48.6	145.9

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#78

n-propylbenzene

Concen: 0.663 ug/l

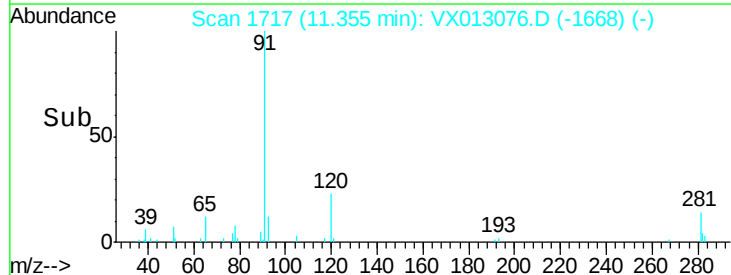
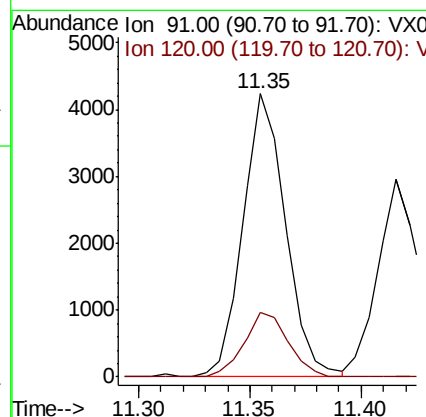
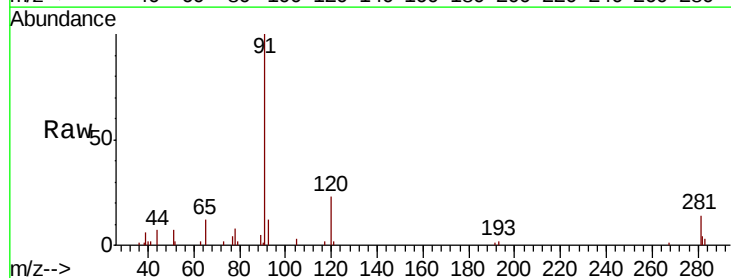
RT: 11.35 min Scan# 1717

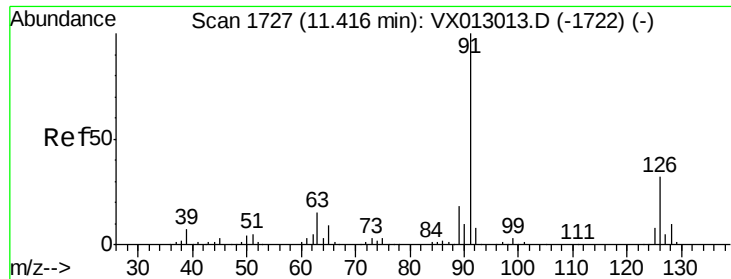
Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Tgt Ion:	91	Resp:	5655
Ion	Ratio	Lower	Upper
91	100		
120	23.6	11.7	35.1





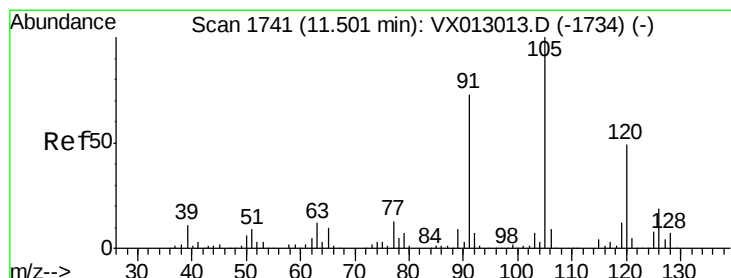
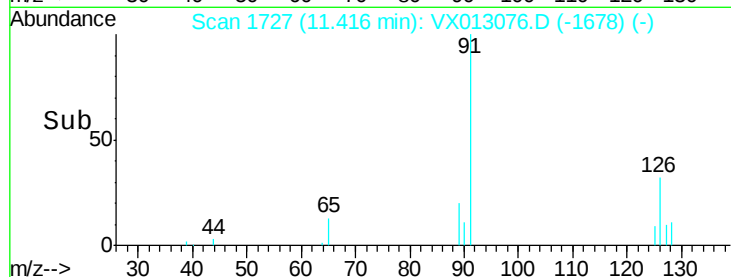
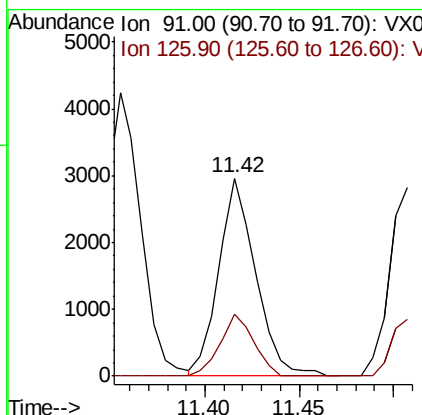
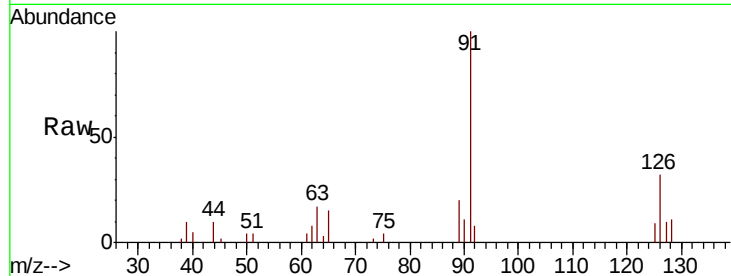
#79
 2-Chlorotoluene
 Concen: 0.751 ug/l
 RT: 11.42 min Scan# 1727
 Delta R.T. -0.00 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

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

Tot Ion: 91 Resp: 4025
 Ion Ratio Lower Upper
 91 100
 126 28.8 16.3 48.8

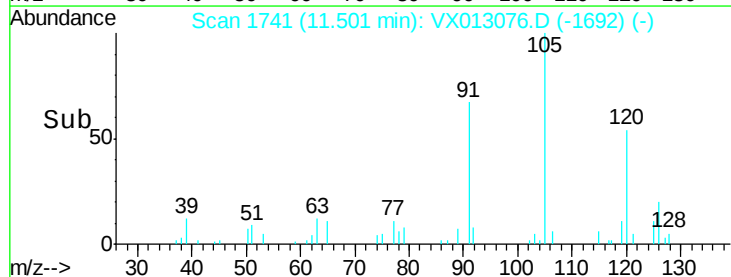
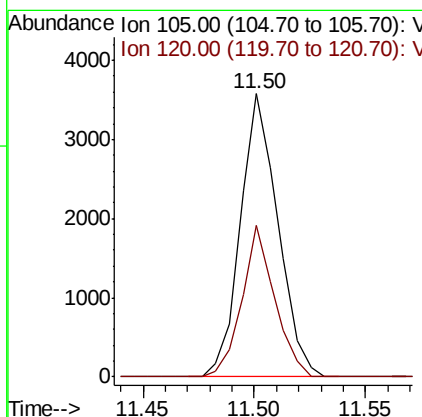
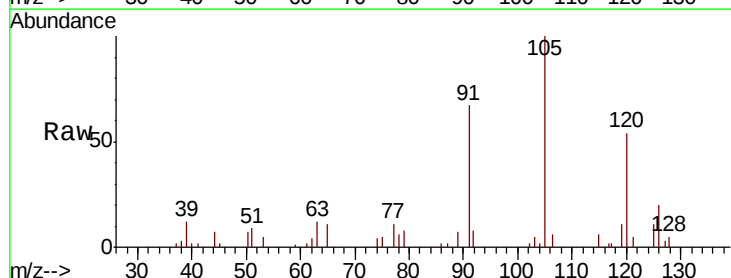
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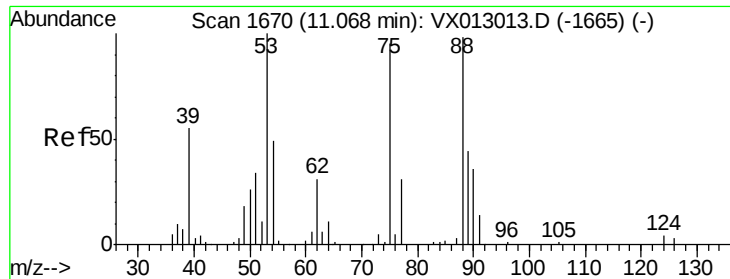
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#80
 1,3,5-Trimethylbenzene
 Concen: 0.648 ug/l
 RT: 11.50 min Scan# 1741
 Delta R.T. -0.00 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

Tgt Ion: 105 Resp: 4192
 Ion Ratio Lower Upper
 105 100
 120 46.8 24.8 74.3





#81

trans-1,4-Dichloro-2-butene

Concen: 0.559 ug/l m

RT: 11.07 min Scan# 1671

Delta R.T. 0.01 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

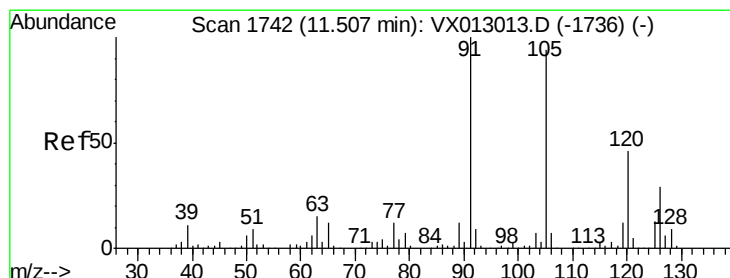
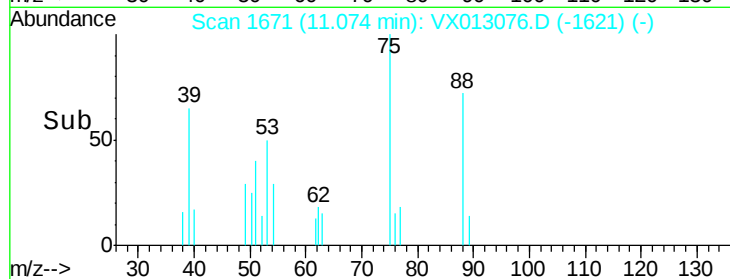
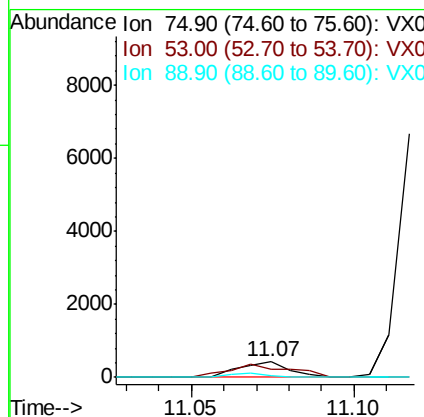
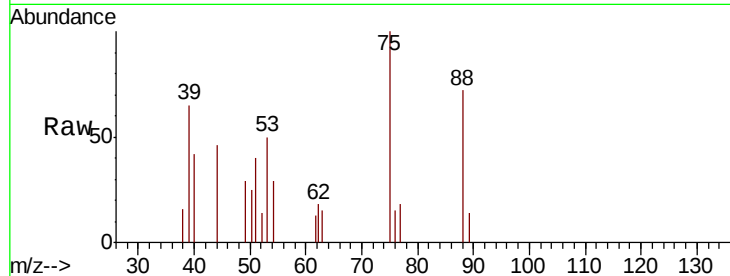
ClientSampleId :

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

Tot Ion:	75	Resp:	462
Ion	Ratio	Lower	Upper
75	100		
53	0.0	78.5	117.7#
89	0.0	37.4	56.2#

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#82

4-Chlorotoluene

Concen: 0.680 ug/l

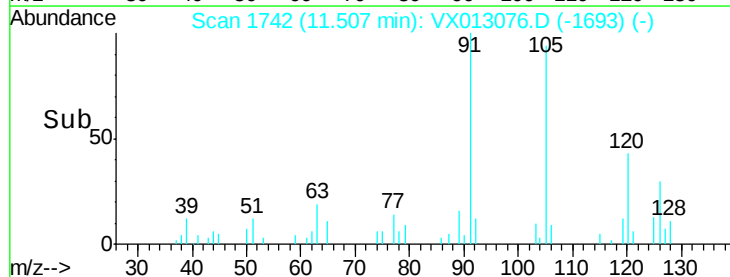
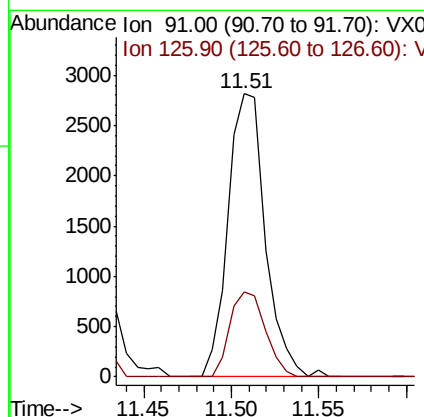
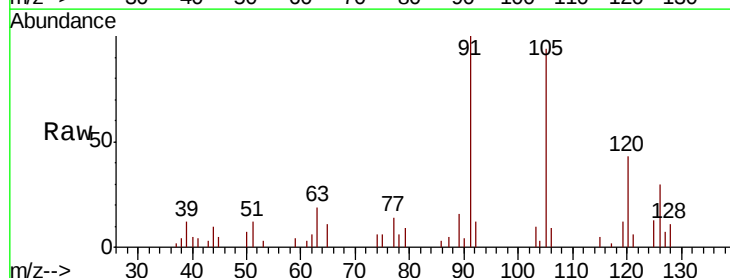
RT: 11.51 min Scan# 1742

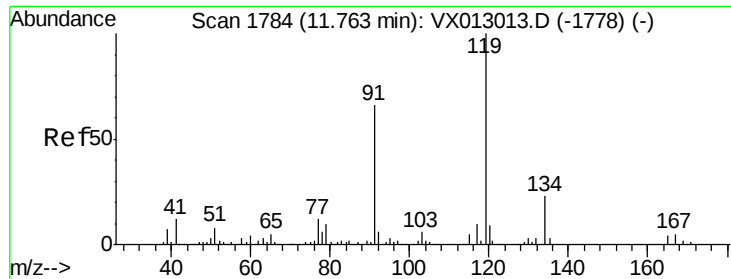
Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Tgt Ion:	91	Resp:	4175
Ion	Ratio	Lower	Upper
91	100		
126	28.6	14.2	42.6





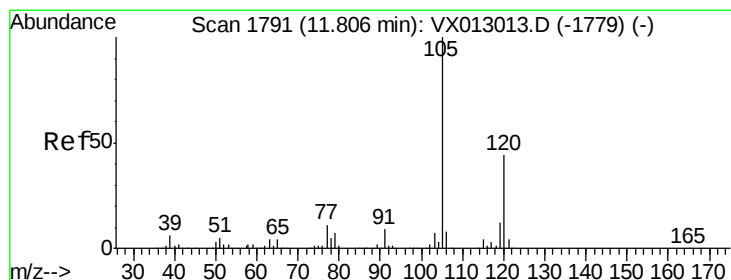
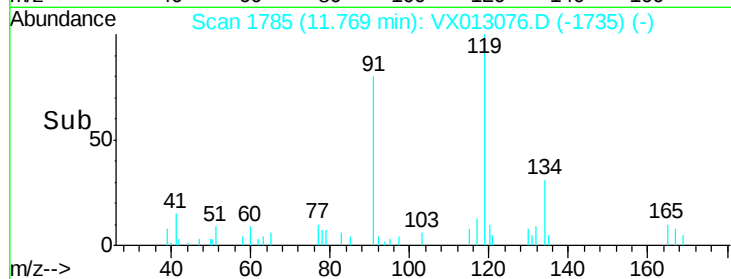
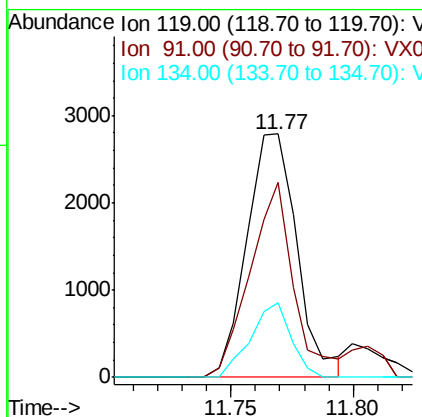
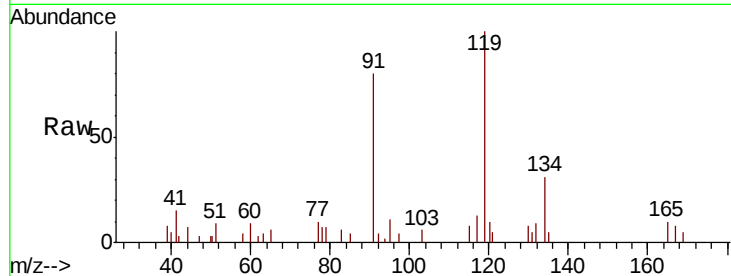
#83
tert-Butylbenzene
Concen: 0.634 ug/l
RT: 11.77 min Scan# 1785
Delta R.T. 0.01 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

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

Tot Ion	Ratio	Lower	Upper
119	100		
91	70.0	29.3	87.9
134	24.5	11.5	34.4

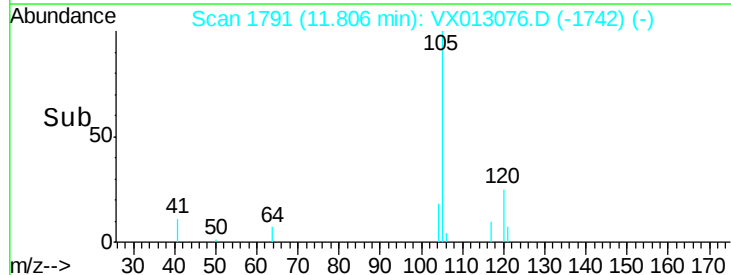
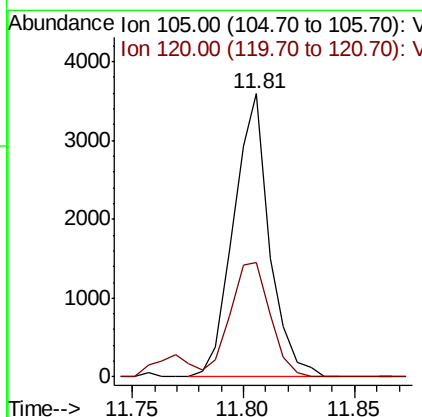
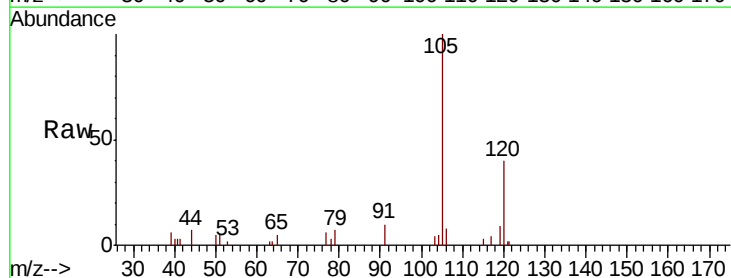
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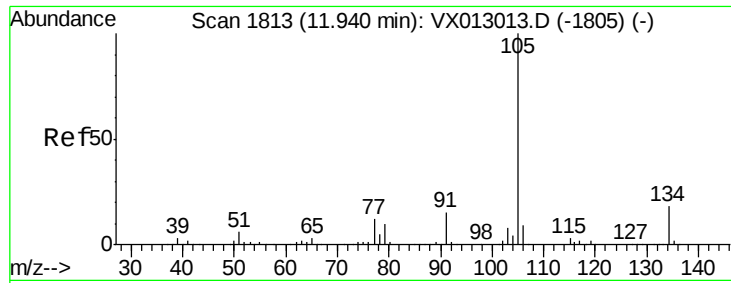
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 0.615 ug/l
RT: 11.81 min Scan# 1791
Delta R.T. -0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.8	21.8	65.3





#85

sec-Butylbenzene

Concen: 0.631 ug/l

RT: 11.94 min Scan# 1813

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

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

Tot Ion:105 Resp: 4612

Ion Ratio Lower Upper

105 100

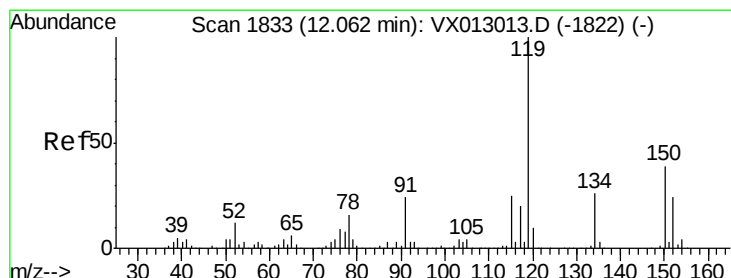
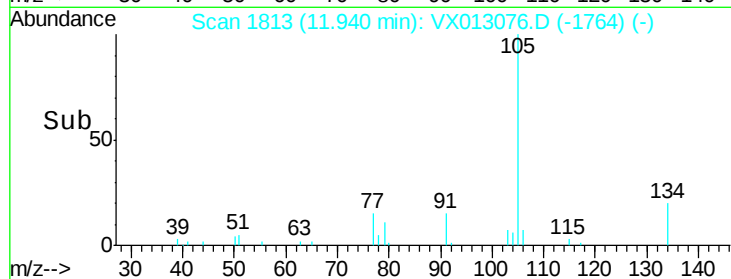
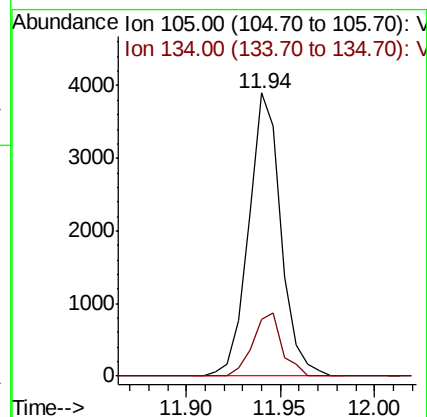
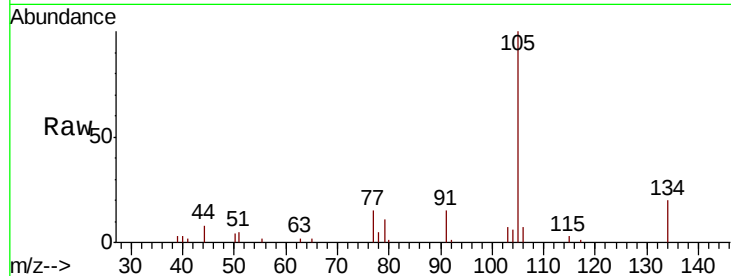
134 20.2 10.0 30.0

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#86

p-Isopropyltoluene

Concen: 0.605 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

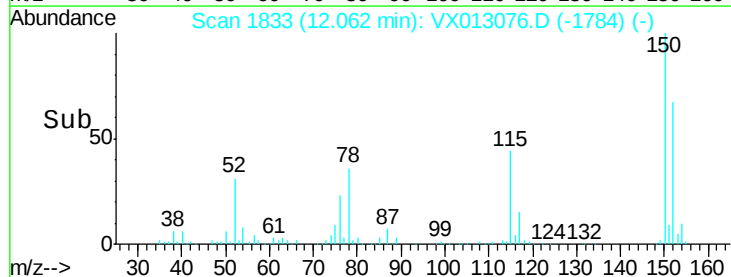
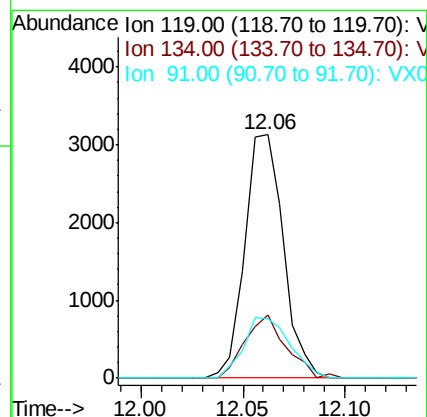
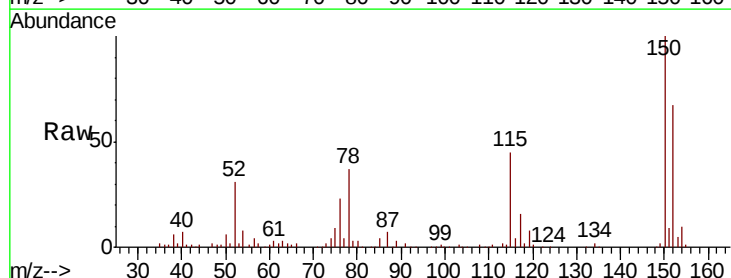
Tgt Ion:119 Resp: 4105

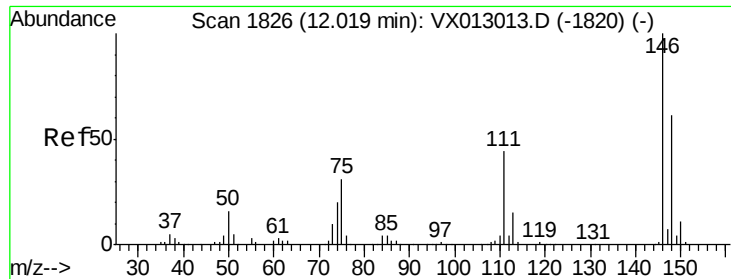
Ion Ratio Lower Upper

119 100

134 27.7 12.6 37.8

91 30.0 12.4 37.4





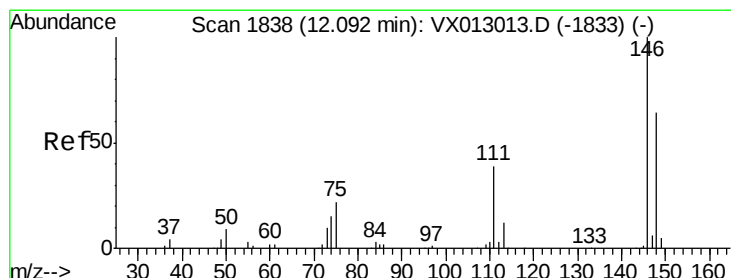
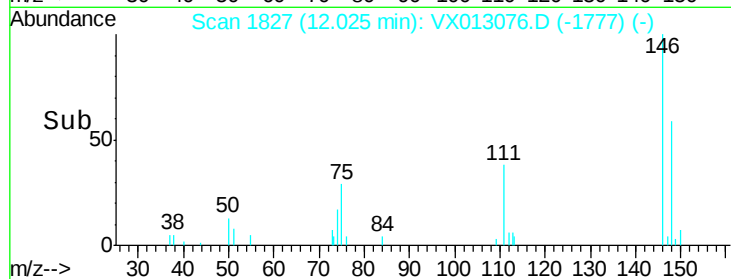
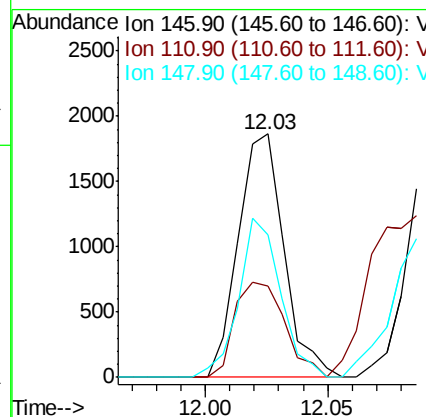
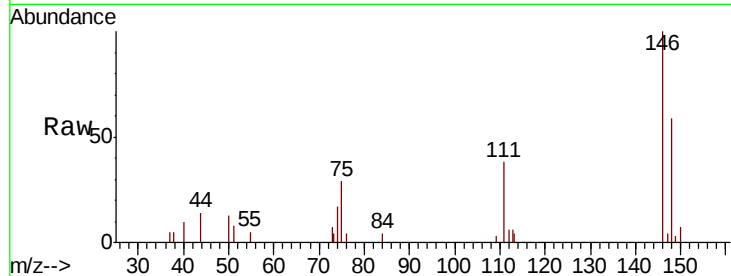
#87
 1,3-Dichlorobenzene
 Concen: 0.715 ug/l
 RT: 12.03 min Scan# 1827
 Delta R.T. 0.01 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.1	63.4
148	60.0	31.6	95.0

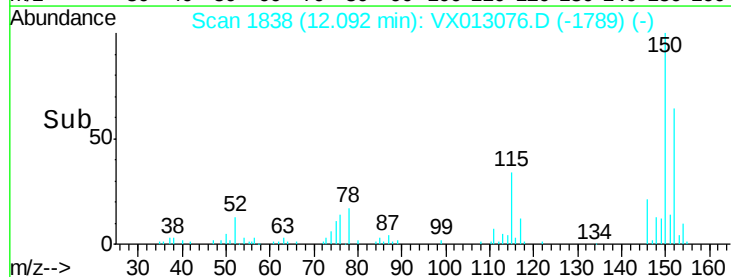
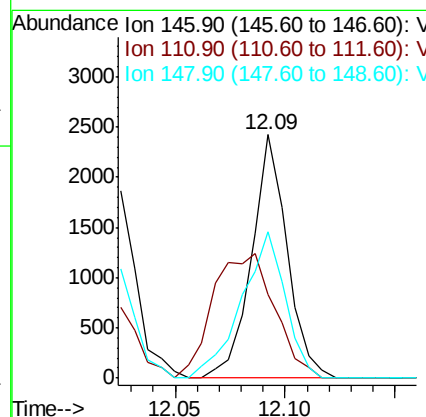
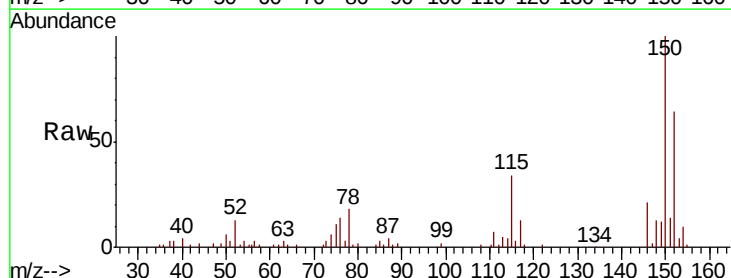
Manual Integrations
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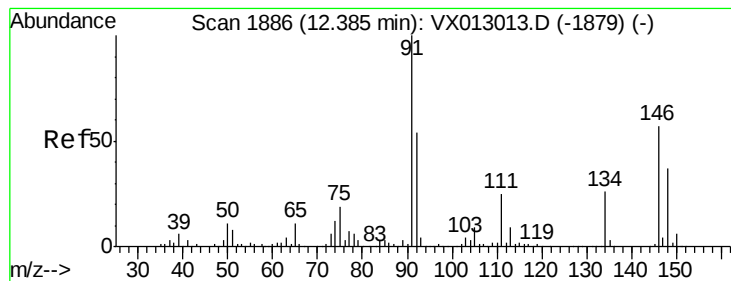
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#88
 1,4-Dichlorobenzene
 Concen: 0.797 ug/l m
 RT: 12.09 min Scan# 1838
 Delta R.T. -0.00 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.0	21.4	64.3
148	53.1	32.1	96.5





#89

n-Butylbenzene

Concen: 0.577 ug/l

RT: 12.39 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

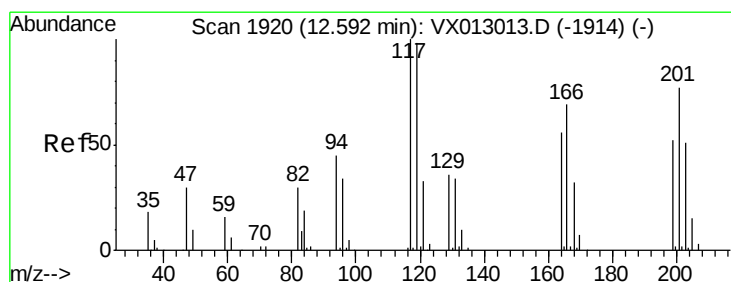
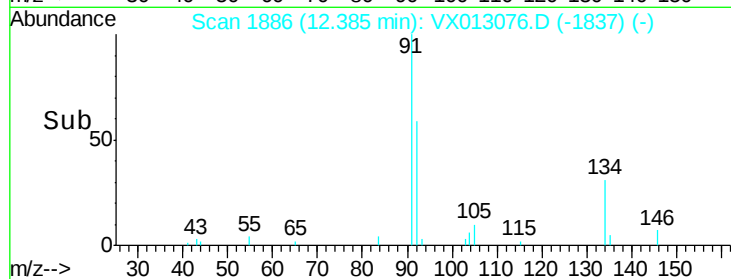
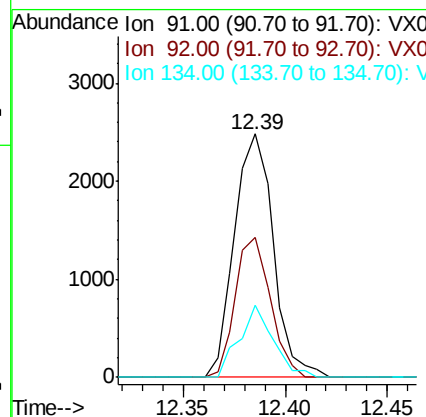
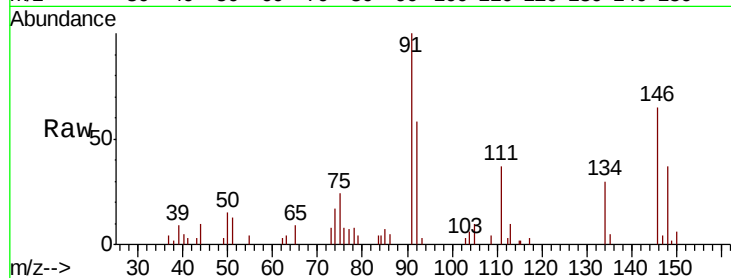
ClientSampleId :

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

Tot Ion:	91	Resp:	3288
Ion	Ratio	Lower	Upper
91	100		
92	51.8	27.5	82.5
134	25.9	12.9	38.7

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#90

Hexachloroethane

Concen: 0.578 ug/l

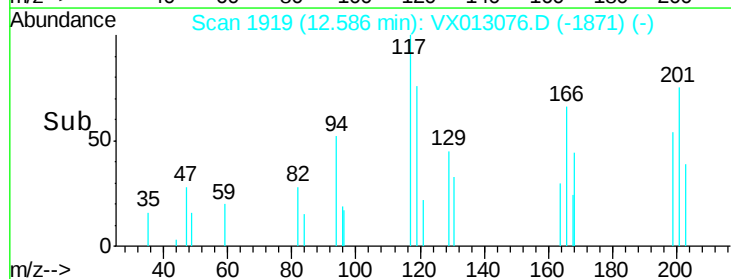
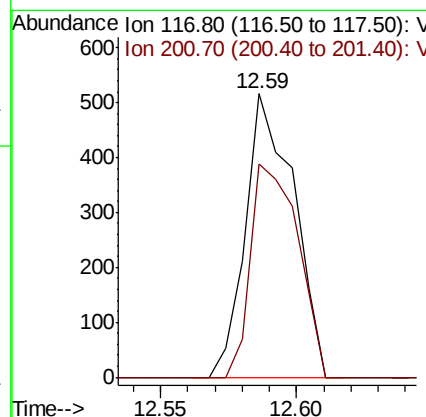
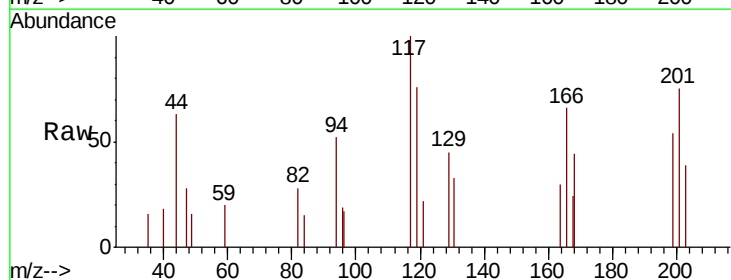
RT: 12.59 min Scan# 1919

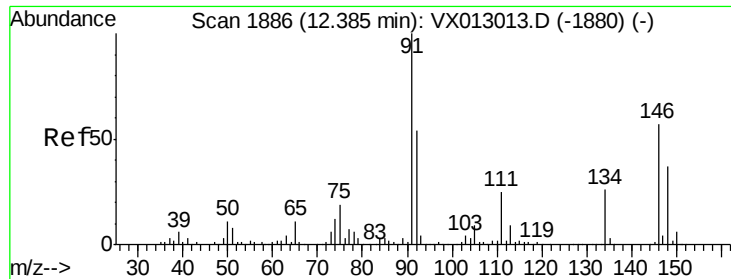
Delta R.T. -0.01 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Tgt Ion:	117	Resp:	635
Ion	Ratio	Lower	Upper
117	100		
201	73.9	36.9	110.7





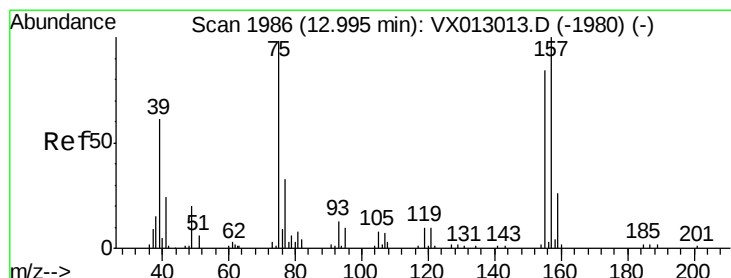
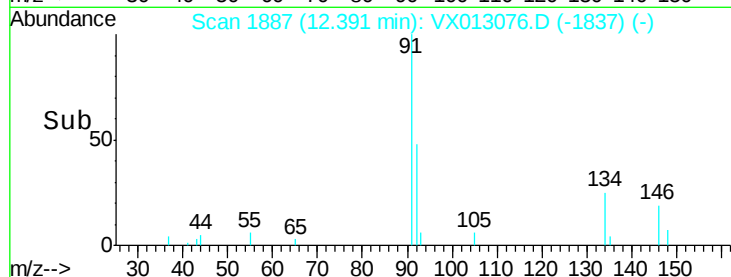
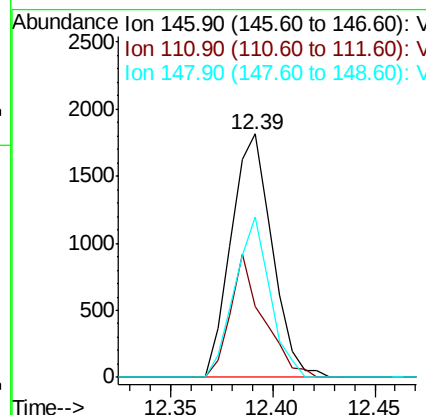
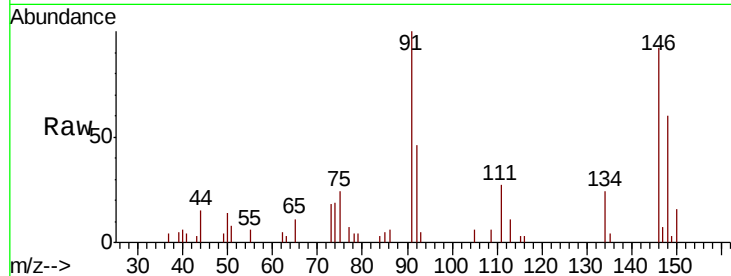
#91
 1,2-Dichlorobenzene
 Concen: 0.760 ug/l
 RT: 12.39 min Scan# 1887
 Delta R.T. 0.01 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.5	22.7	68.0
148	56.4	31.6	94.7

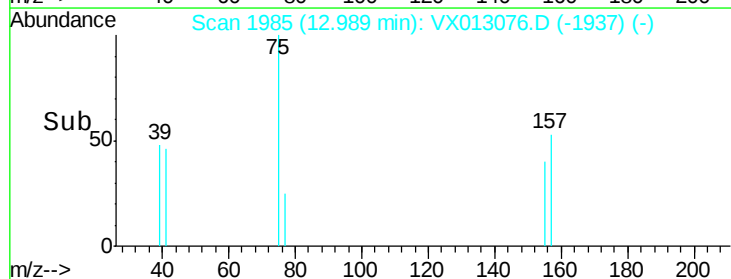
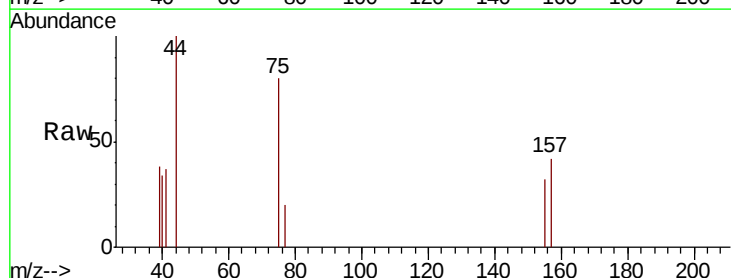
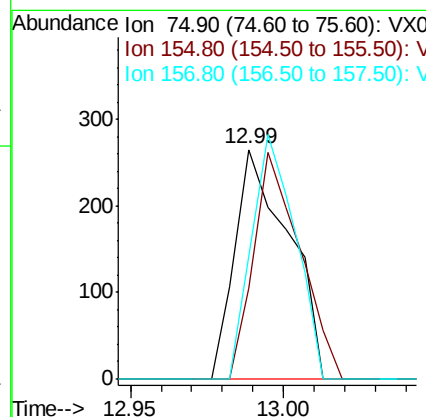
Manual Integrations
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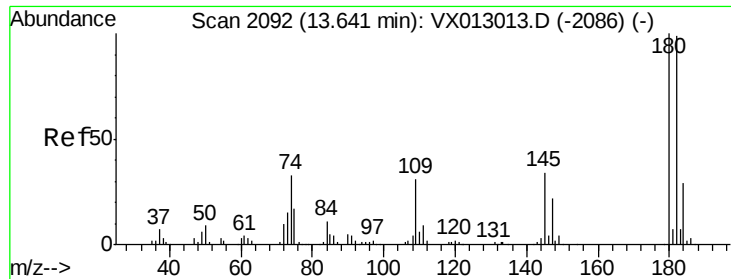
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 10/16/2019 9:57:31 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.535 ug/l
 RT: 12.99 min Scan# 1985
 Delta R.T. -0.01 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

Tgt Ion	Ratio	Lower	Upper
75	100		
155	85.4	43.0	128.8
157	85.8	54.1	162.3





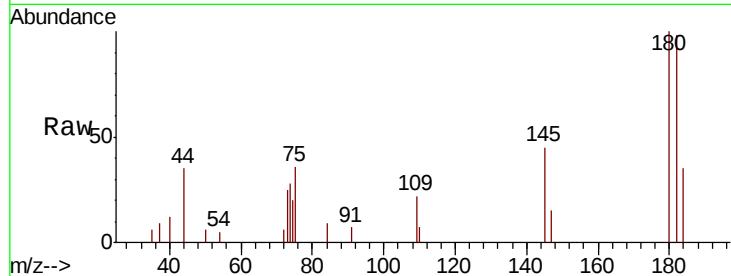
#93
 1,2,4-Trichlorobenzene
 Concen: 0.617 ug/l
 RT: 13.64 min Scan# 2092
 Delta R.T. -0.00 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

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

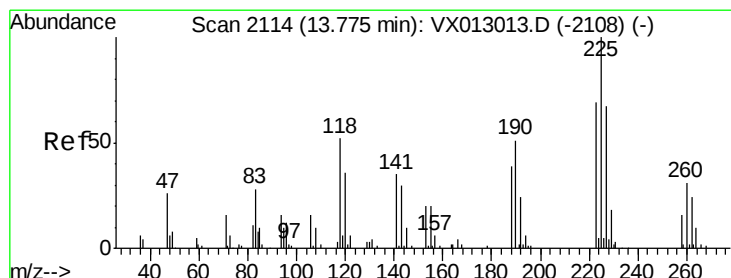
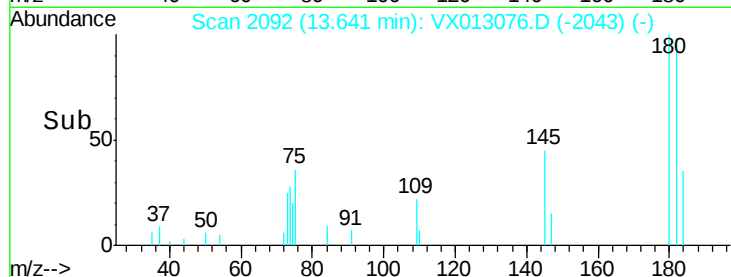
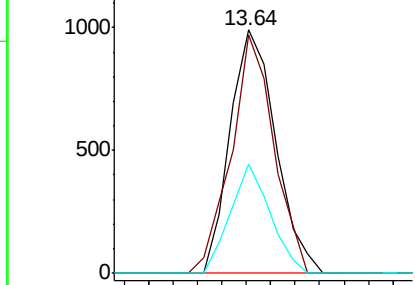
Tot Ion	Ratio	Lower	Upper
180	100		
182	91.5	46.8	140.4
145	39.0	16.2	48.6

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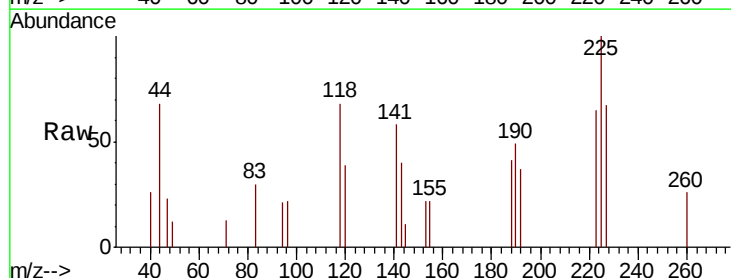


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

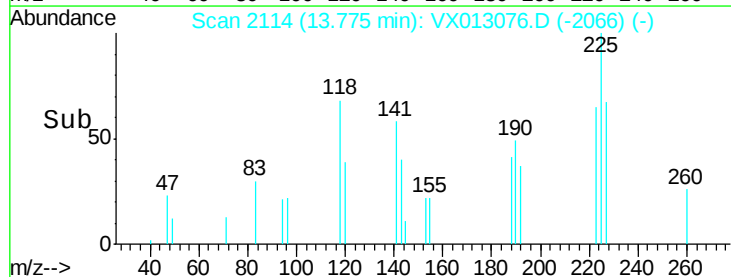
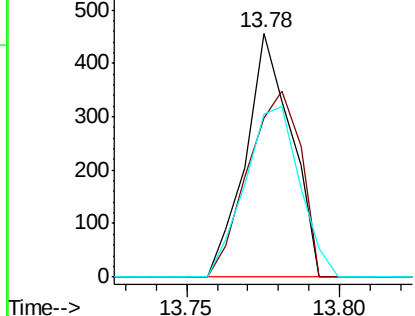


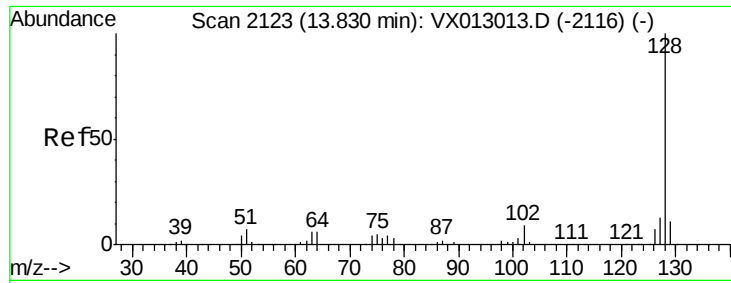
#94
 Hexachlorobutadiene
 Concen: 0.490 ug/l
 RT: 13.78 min Scan# 2114
 Delta R.T. -0.01 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

Tgt Ion	Ratio	Lower	Upper
225	100		
223	88.3	31.1	93.2
227	84.3	32.3	96.9



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





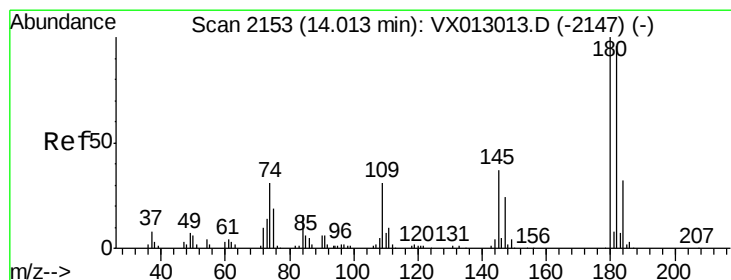
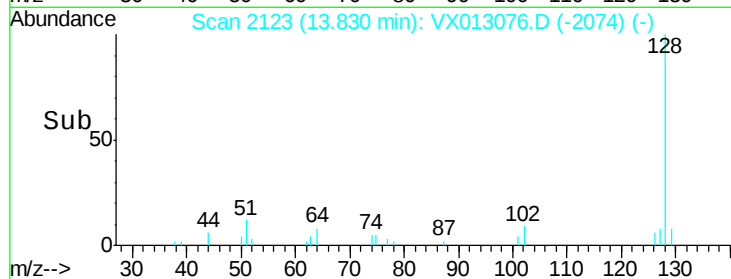
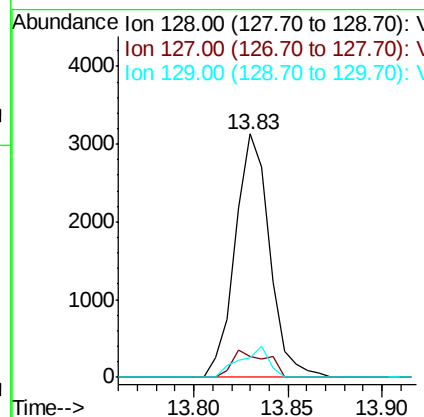
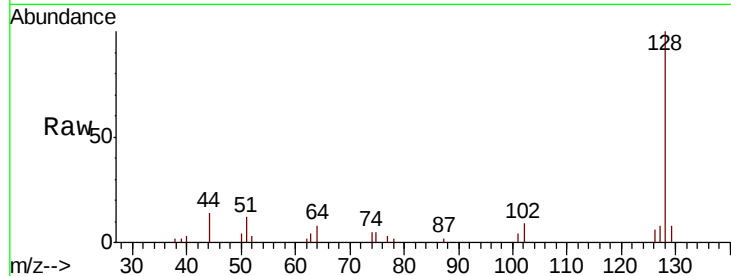
#95
Naphthalene
Concen: 0.551 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. -0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

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

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.1	10.2	15.4
129	10.3	8.8	13.2

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#96
1,2,3-Trichlorobenzene
Concen: 0.612 ug/l
RT: 14.02 min Scan# 2154
Delta R.T. 0.01 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.1	47.5	142.5
145	37.4	17.4	52.3

