

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101519\
 Data File : VX013075.D
 Acq On : 15 Oct 2019 14:07
 Operator : JC/SP
 Sample : K5111-09 0.5PPB MDL
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 10/16/2019 9:57:35 AM

Quant Time: Oct 16 07:16:11 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	160202	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	271122	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	239935	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	103389	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	100576	50.23	ug/l	0.00
Spiked Amount			Recovery	=	100.46%	
35) Dibromofluoromethane	5.49	113	78352	50.35	ug/l	0.00
Spiked Amount			Recovery	=	100.70%	
50) Toluene-d8	8.71	98	296433	48.84	ug/l	0.00
Spiked Amount			Recovery	=	97.68%	
62) 4-Bromofluorobenzene	11.13	95	107297	45.50	ug/l	0.00
Spiked Amount			Recovery	=	91.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	853	0.522	ug/l	81
3) Chloromethane	1.31	50	959	0.540	ug/l	98
4) Vinyl Chloride	1.40	62	850	0.463	ug/l	92
5) Bromomethane	1.63	94	883	1.158	ug/l	85
6) Chloroethane	1.71	64	963	0.892	ug/l #	67
7) Trichlorofluoromethane	1.92	101	1466	0.592	ug/l	87
8) Diethyl Ether	2.17	74	552	0.552	ug/l	69
9) 1,1,2-Trichlorotrifluoroet	2.37	101	812	0.507	ug/l #	83
10) Methyl Iodide	2.50	142	914	0.580	ug/l #	84
11) Tert butyl alcohol	3.01	59	3824	7.204	ug/l #	72
12) 1,1-Dichloroethene	2.36	96	869	0.537	ug/l #	71
13) Acrolein	2.29	56	714	1.893	ug/l	87
14) Allyl chloride	2.72	41	1401	0.486	ug/l	95
15) Acrylonitrile	3.14	53	2417	2.403	ug/l #	91
16) Acetone	2.43	43	2478	2.348	ug/l #	70
17) Carbon Disulfide	2.56	76	2162	0.468	ug/l	97
18) Methyl Acetate	2.76	43	1340	0.536	ug/l #	90
19) Methyl tert-butyl Ether	3.19	73	2876	0.514	ug/l	93
20) Methylene Chloride	2.85	84	1234	0.636	ug/l	93
21) trans-1,2-Dichloroethene	3.16	96	945	0.545	ug/l #	63
22) Diisopropyl ether	3.84	45	2856	0.517	ug/l #	66
23) Vinyl Acetate	3.81	43	9956	2.088	ug/l #	91
24) 1,1-Dichloroethane	3.69	63	1538	0.495	ug/l #	81
25) 2-Butanone	4.67	43	3315	2.264	ug/l	91
26) 2,2-Dichloropropane	4.56	77	1207	0.462	ug/l	82
27) cis-1,2-Dichloroethene	4.58	96	1082	0.541	ug/l	71
28) Bromochloromethane	5.01	49	460	0.517	ug/l #	84
29) Tetrahydrofuran	5.12	42	2418	2.684	ug/l	89
30) Chloroform	5.19	83	2023	0.634	ug/l	89
31) Cyclohexane	5.56	56	1477	0.508	ug/l #	81
32) 1,1,1-Trichloroethane	5.50	97	1296	0.480	ug/l #	47
36) 1,1-Dichloropropene	5.79	75	1260	0.529	ug/l	87
37) Ethyl Acetate	4.83	43	1489m	0.559	ug/l	
38) Carbon Tetrachloride	5.78	117	1271	0.548	ug/l #	77

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	1459	0.505	ug/l #	86
40) Benzene	6.13	78	3712	0.527	ug/l	99
41) Methacrylonitrile	5.05	41	651	0.444	ug/l #	90
42) 1,2-Dichloroethane	6.18	62	1581	0.626	ug/l	82
43) Isopropyl Acetate	6.45	43	1857	0.434	ug/l	95
44) Trichloroethene	7.20	130	1050	0.538	ug/l	96
45) 1,2-Dichloropropane	7.51	63	968	0.539	ug/l #	21
46) Dibromomethane	7.66	93	572	0.478	ug/l #	83
47) Bromodichloromethane	7.89	83	1107	0.474	ug/l #	67
48) Methyl methacrylate	7.77	41	1034	0.496	ug/l #	83
49) 1,4-Dioxane	7.75	88	521	10.337	ug/l #	89
51) 4-Methyl-2-Pentanone	8.64	43	6179	2.317	ug/l	97
52) Toluene	8.78	92	2329	0.517	ug/l	98
53) t-1,3-Dichloropropene	9.04	75	1089	0.422	ug/l	94
54) cis-1,3-Dichloropropene	8.44	75	1232	0.429	ug/l #	84
55) 1,1,2-Trichloroethane	9.21	97	1067	0.599	ug/l #	88
56) Ethyl methacrylate	9.18	69	1171	0.406	ug/l #	88
57) 1,3-Dichloropropane	9.37	76	1544	0.501	ug/l	94
58) 2-Chloroethyl Vinyl ether	8.31	63	2248	1.717	ug/l	97
59) 2-Hexanone	9.49	43	4552	2.192	ug/l	95
60) Dibromochloromethane	9.58	129	722	0.413	ug/l	92
61) 1,2-Dibromoethane	9.67	107	846	0.451	ug/l	98
64) Tetrachloroethene	9.33	164	842	0.506	ug/l #	78
65) Chlorobenzene	10.13	112	2377	0.499	ug/l	95
66) 1,1,1,2-Tetrachloroethane	10.21	131	777	0.470	ug/l #	57
67) Ethyl Benzene	10.25	91	4209	0.497	ug/l #	88
68) m/p-Xylenes	10.35	106	2878	0.910	ug/l	89
69) o-Xylene	10.69	106	1455	0.472	ug/l	98
70) Styrene	10.71	104	2192	0.418	ug/l	90
71) Bromoform	10.85	173	461	0.387	ug/l #	77
73) Isopropylbenzene	11.02	105	3858	0.508	ug/l	98
74) N-amyl acetate	10.90	43	1502	0.459	ug/l #	89
75) 1,1,2,2-Tetrachloroethane	11.27	83	1238	0.490	ug/l	93
76) 1,2,3-Trichloropropane	11.29	75	1265m	0.552	ug/l	
77) Bromobenzene	11.25	156	954	0.533	ug/l	88
78) n-propylbenzene	11.35	91	4120	0.493	ug/l	99
79) 2-Chlorotoluene	11.42	91	2766	0.526	ug/l	94
80) 1,3,5-Trimethylbenzene	11.50	105	3272	0.516	ug/l	91
81) trans-1,4-Dichloro-2-buten	11.07	75	254m	0.313	ug/l	
82) 4-Chlorotoluene	11.51	91	3070	0.510	ug/l	99
83) tert-Butylbenzene	11.77	119	3073	0.496	ug/l	96
84) 1,2,4-Trimethylbenzene	11.81	105	2960	0.460	ug/l	97
85) sec-Butylbenzene	11.94	105	3314	0.462	ug/l	100
86) p-Isopropyltoluene	12.06	119	2952	0.444	ug/l	91
87) 1,3-Dichlorobenzene	12.03	146	1616	0.486	ug/l	92
88) 1,4-Dichlorobenzene	12.09	146	1815m	0.539	ug/l	
89) n-Butylbenzene	12.39	91	2266	0.405	ug/l	95
90) Hexachloroethane	12.59	117	433	0.402	ug/l	89
91) 1,2-Dichlorobenzene	12.39	146	1652	0.507	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.01	75	244	0.412	ug/l	82

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

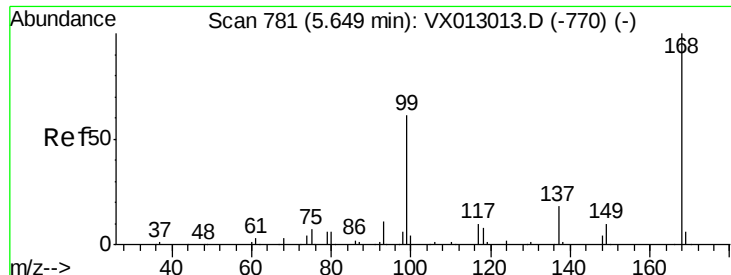
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.64	180	871	0.426	ug/l	89
94) Hexachlorobutadiene	13.78	225	405	0.430	ug/l	92
95) Naphthalene	13.84	128	2526	0.357	ug/l	96
96) 1,2,3-Trichlorobenzene	14.01	180	1006	0.477	ug/l	91

(#) = 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: VX013075.D

Acq: 15 Oct 2019 14:07

Instrument :

MSVOA_X

ClientSampleId :

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

Tot Ion:168 Resp: 160202

Ion Ratio Lower Upper

168 100

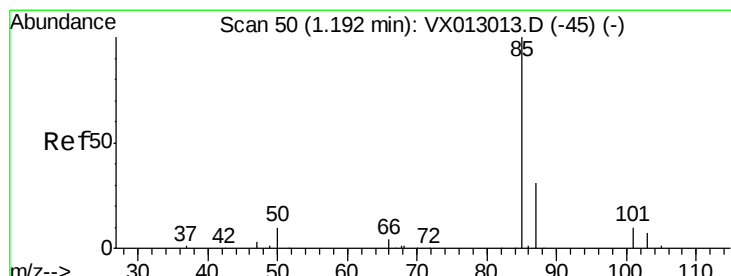
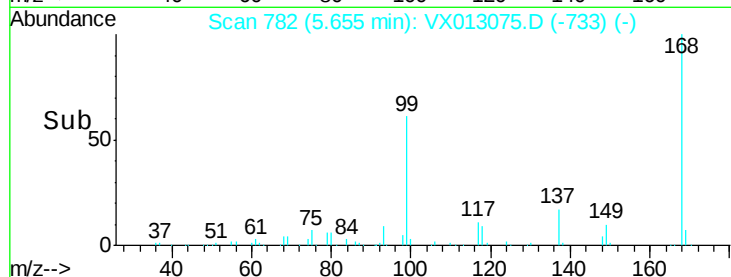
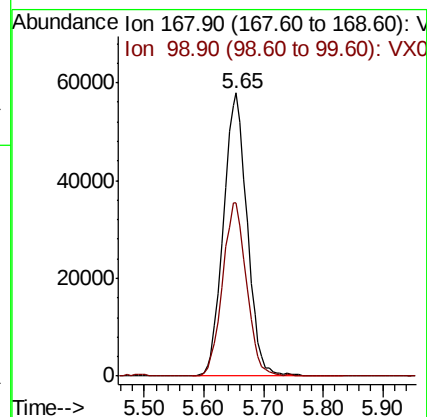
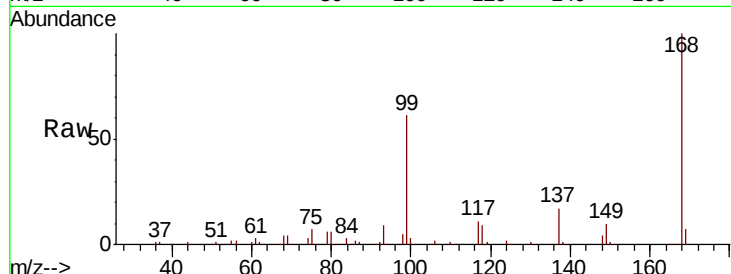
99 61.1 49.4 74.0

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#2

Dichlorodifluoromethane

Concen: 0.522 ug/l

RT: 1.19 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX013075.D

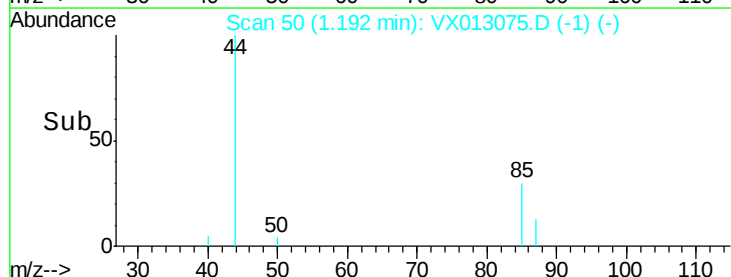
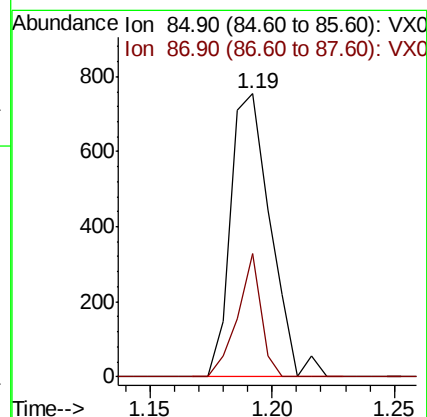
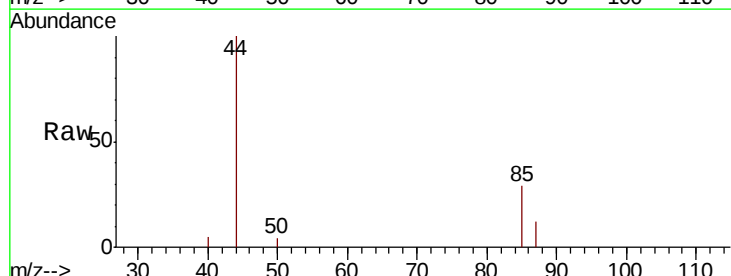
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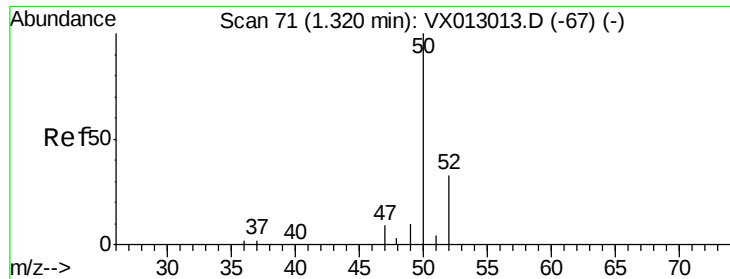
Tgt Ion: 85 Resp: 853

Ion Ratio Lower Upper

85 100

87 43.8 16.4 49.4





#3

Chloromethane

Concen: 0.540 ug/l

RT: 1.31 min Scan# 70

Delta R.T. -0.01 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

Tot Ion: 50 Resp: 959

Ion Ratio Lower Upper

50 100

52 30.4 25.2 37.8

Instrument :

MSVOA_X

ClientSampleId :

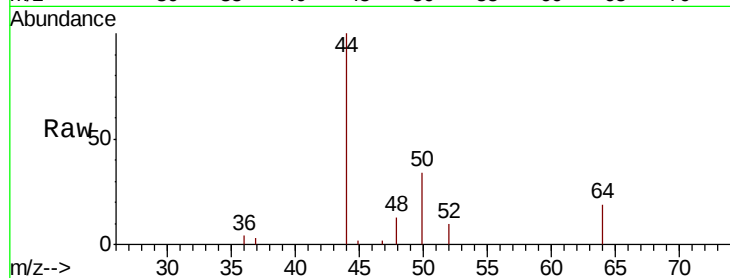
MDL-MDL-WATER-03-QT4-2019DL

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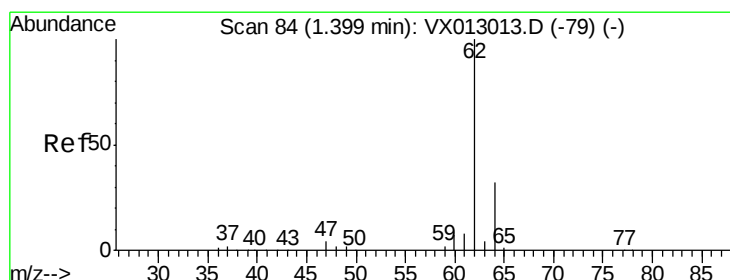
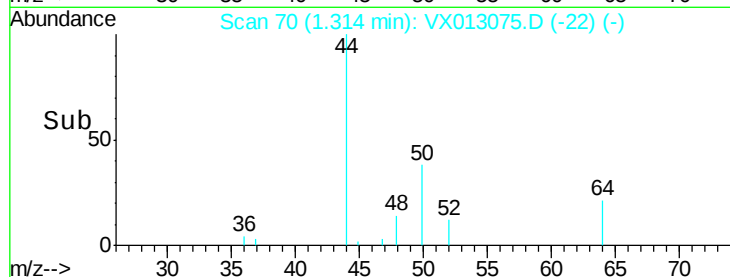
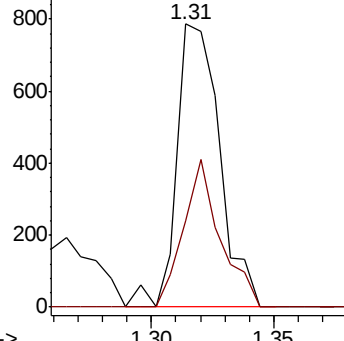
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Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 0.463 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX013075.D

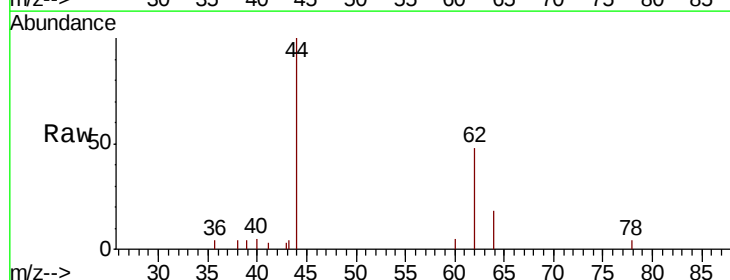
Acq: 15 Oct 2019 14:07

Tgt Ion: 62 Resp: 850

Ion Ratio Lower Upper

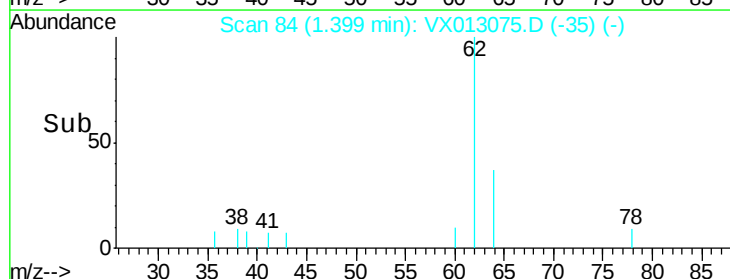
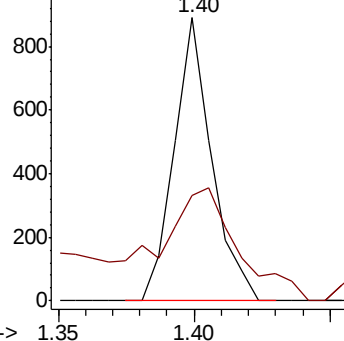
62 100

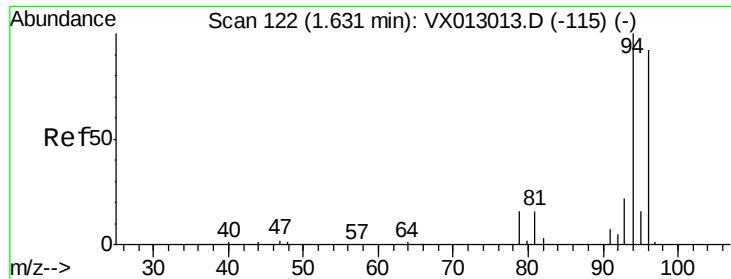
64 27.3 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 1.158 ug/l

RT: 1.63 min Scan# 122

Delta R.T. -0.00 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

Instrument :

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

Tot Ion: 94 Resp: 883

Ion Ratio Lower Upper

94 100

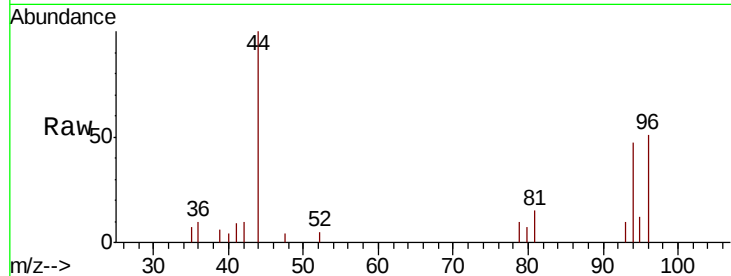
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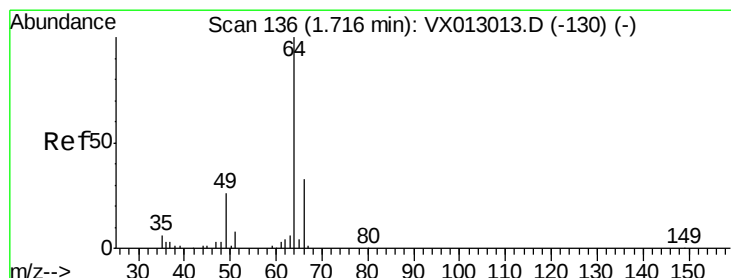
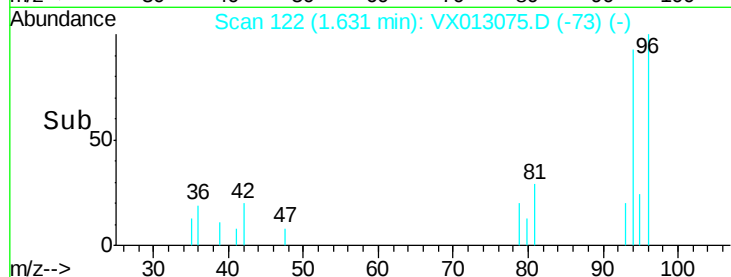
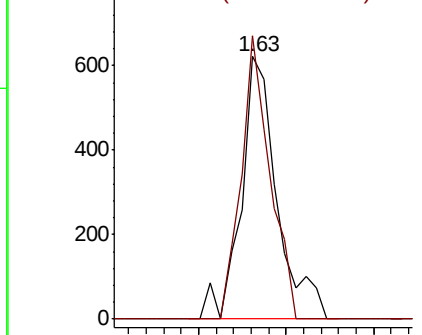
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Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.892 ug/l

RT: 1.71 min Scan# 135

Delta R.T. 0.00 min

Lab File: VX013075.D

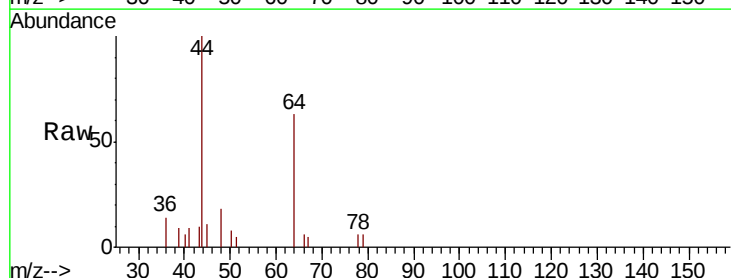
Acq: 15 Oct 2019 14:07

Tgt Ion: 64 Resp: 963

Ion Ratio Lower Upper

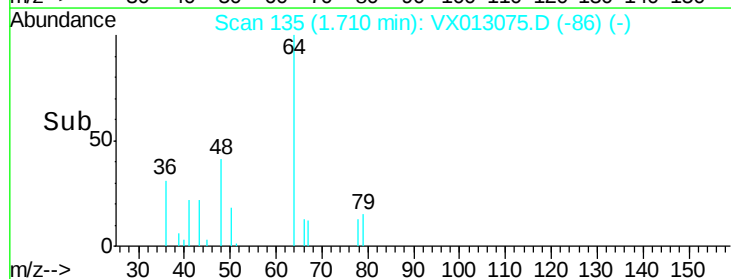
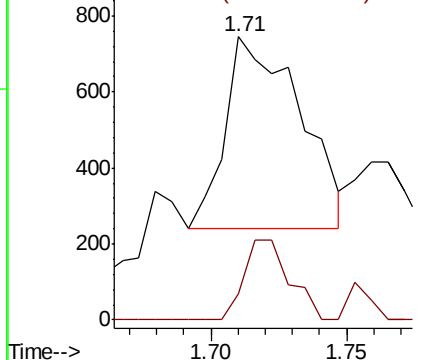
64 100

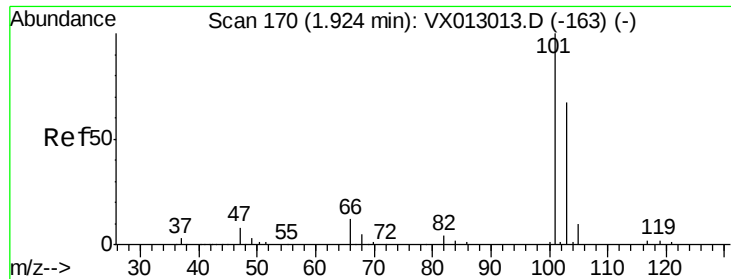
66 13.7 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#7

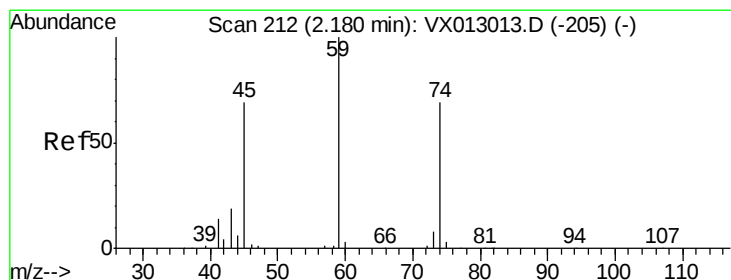
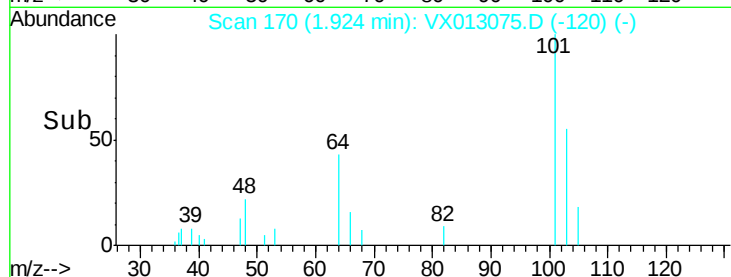
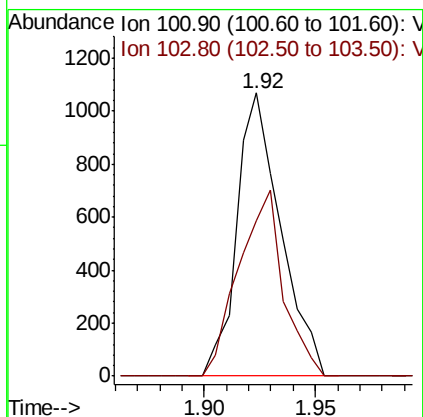
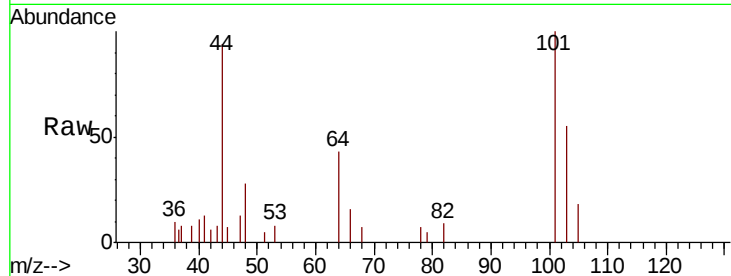
Trichlorofluoromethane
Concen: 0.592 ug/l
RT: 1.92 min Scan# 170
Delta R.T. 0.01 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

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Tot Ion:101 Resp: 1466
Ion Ratio Lower Upper
101 100
103 55.1 52.5 78.7

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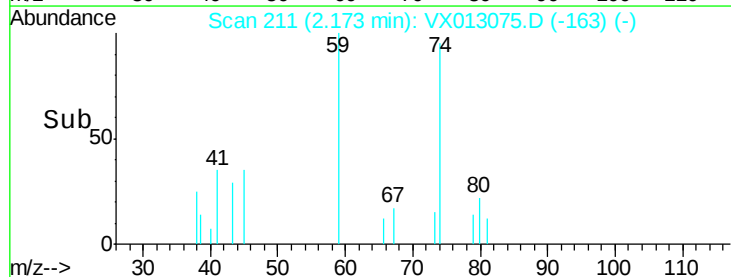
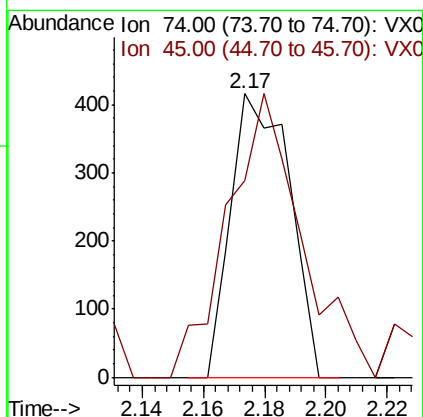
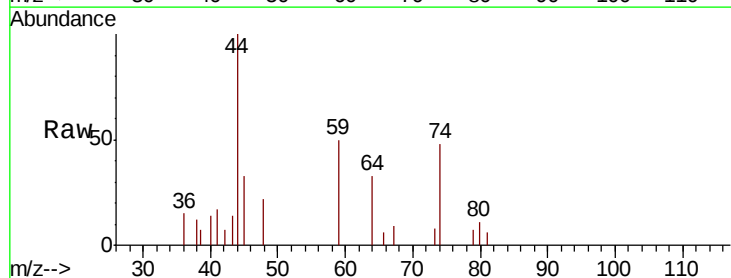
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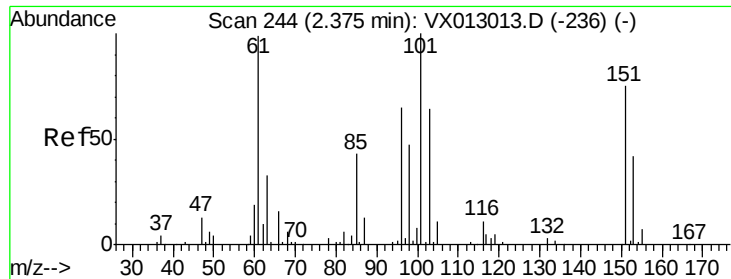


#8

Diethyl Ether
Concen: 0.552 ug/l
RT: 2.17 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

Tgt Ion: 74 Resp: 552
Ion Ratio Lower Upper
74 100
45 126.1 47.8 143.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.507 ug/l

RT: 2.37 min Scan# 244

Delta R.T. -0.00 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

Instrument :

MSVOA_X

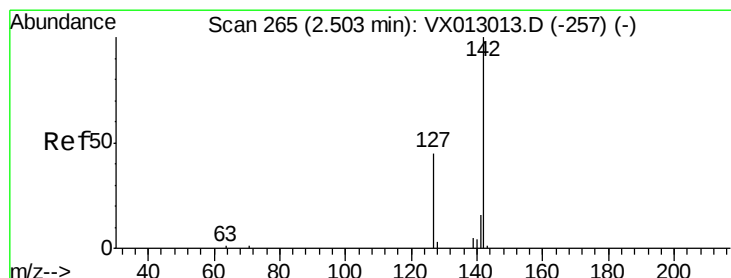
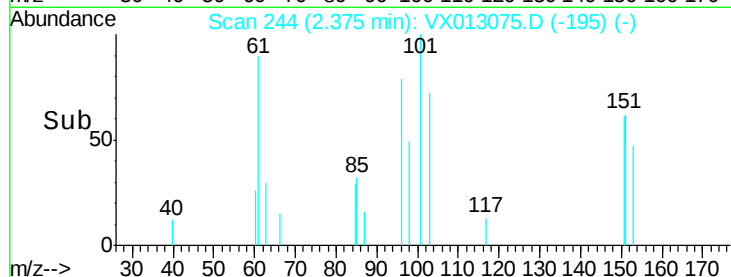
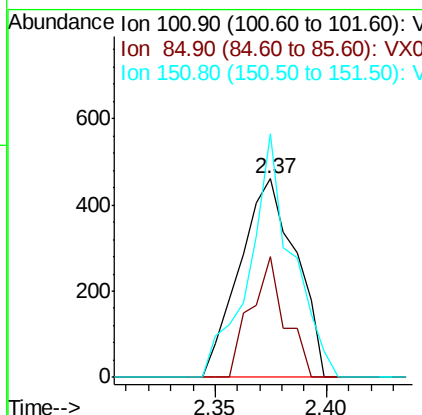
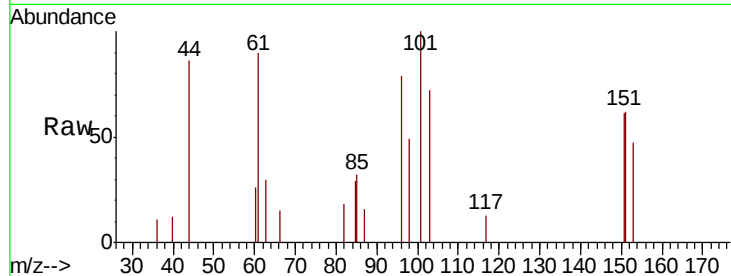
ClientSampleId :

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

Tot Ion:	101	Resp:	812
Ion Ratio	Lower	Upper	
101	100		
85	37.1	35.2	52.8
151	93.1	60.3	90.5#

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#10

Methyl Iodide

Concen: 0.580 ug/l

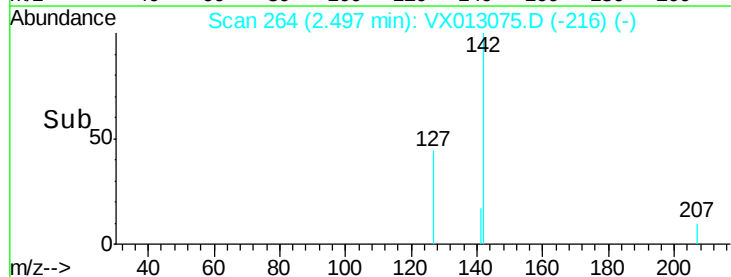
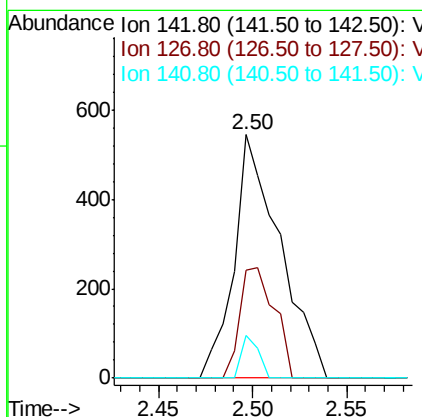
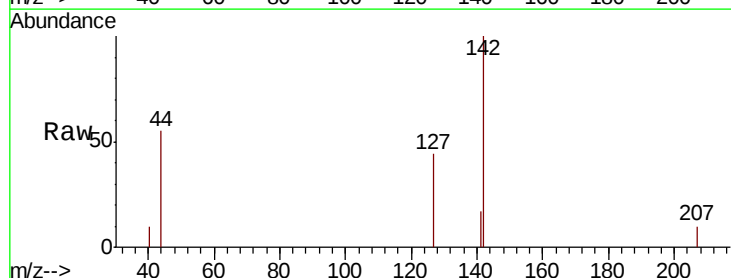
RT: 2.50 min Scan# 264

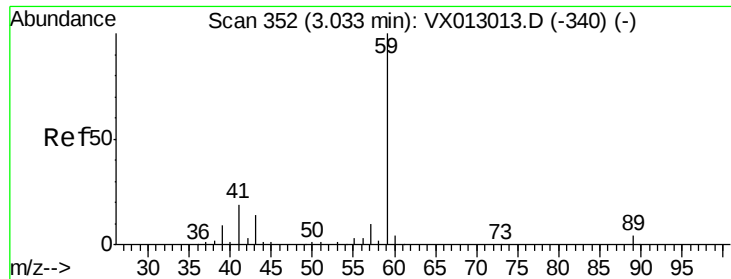
Delta R.T. -0.01 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

Tgt Ion:	142	Resp:	914
Ion Ratio	Lower	Upper	
142	100		
127	34.4	34.9	52.3#
141	6.5	11.6	17.4#





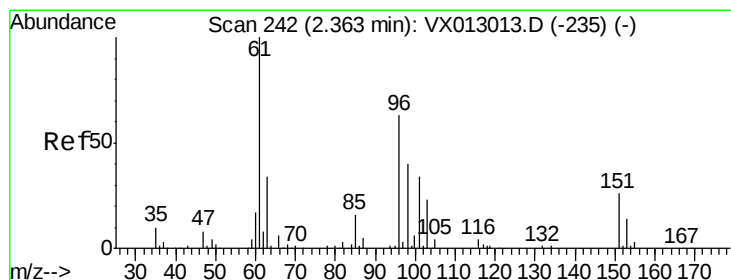
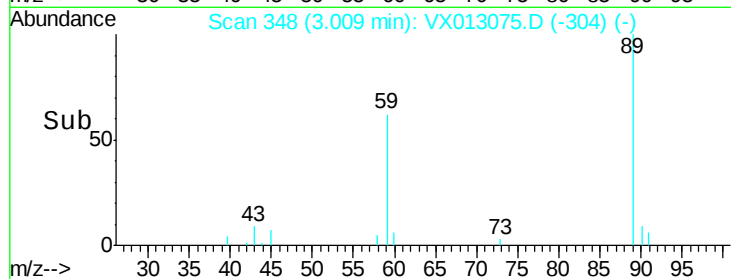
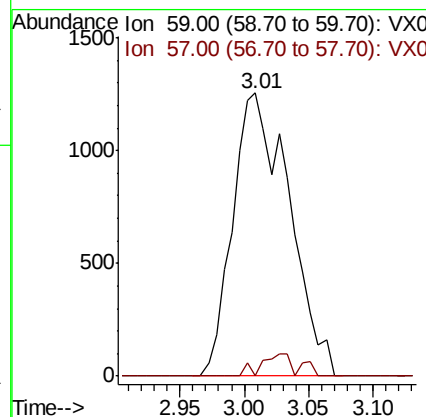
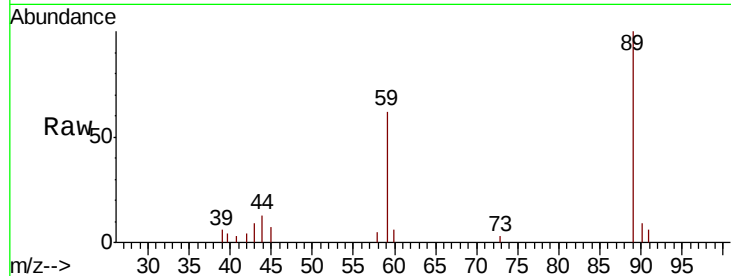
#11
Tert butvl alcohol
Concen: 7.204 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.03 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

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

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

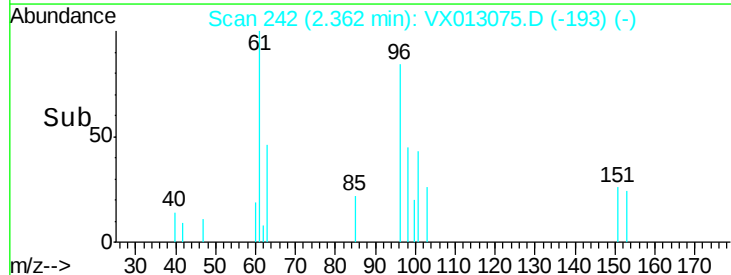
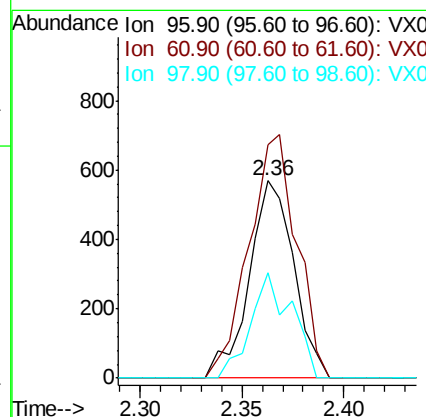
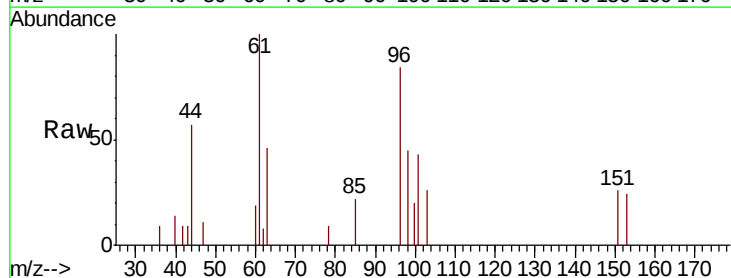
Manual Integrations
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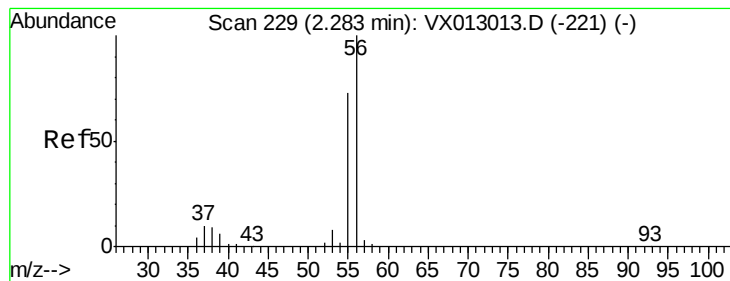
MMDadoda
10/16/2019 9:57:35 AM



#12
1,1-Dichloroethene
Concen: 0.537 ug/l
RT: 2.36 min Scan# 242
Delta R.T. -0.00 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

Tgt Ion	Ratio	Lower	Upper
96	100		
61	118.5	132.2	198.4#
98	53.7	50.5	75.7





#13

Acrolein

Concen: 1.893 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

Instrument :

MSVOA_X

ClientSampleId :

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

Tot Ion: 56 Resp: 714

Ion Ratio Lower Upper

56 100

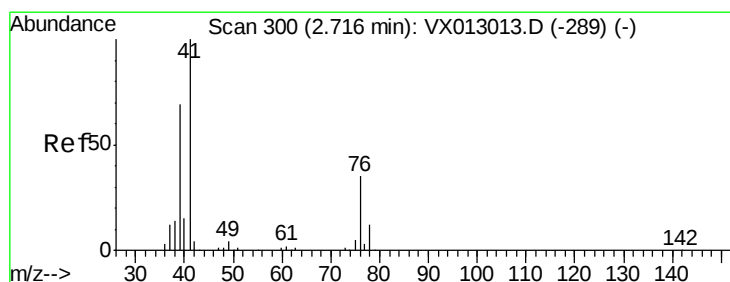
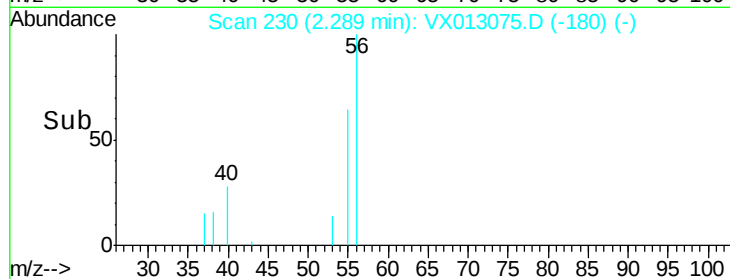
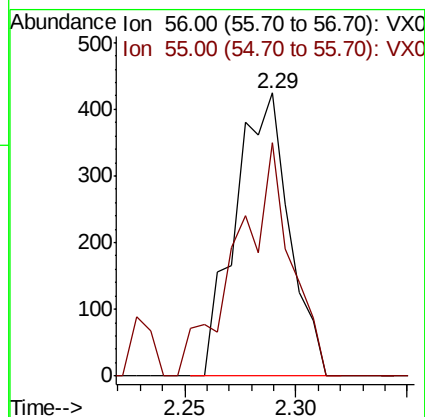
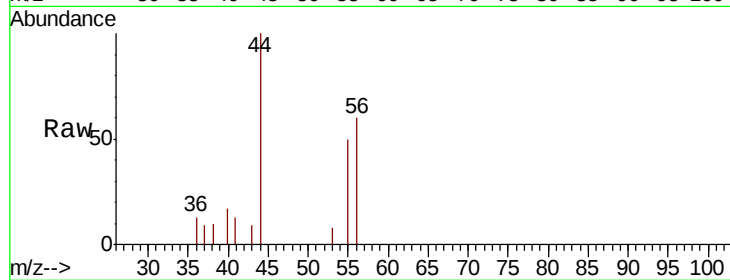
55 81.9 56.6 85.0

Manual Integrations

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#14

Allyl chloride

Concen: 0.486 ug/l

RT: 2.72 min Scan# 300

Delta R.T. -0.00 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

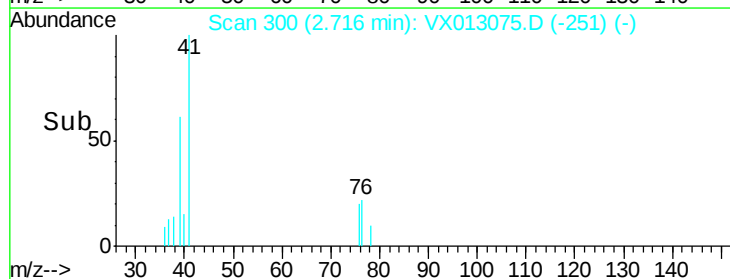
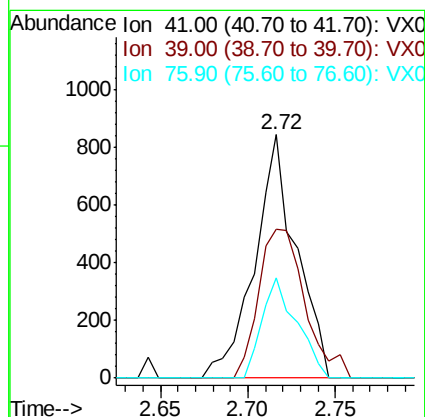
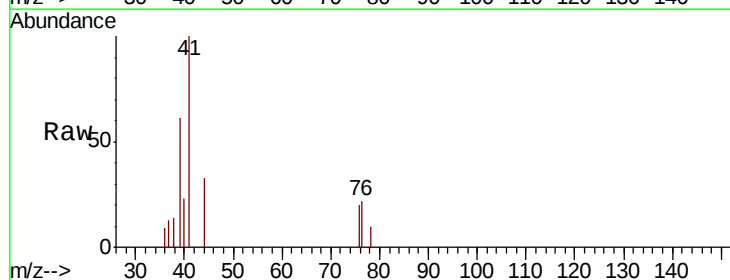
Tgt Ion: 41 Resp: 1401

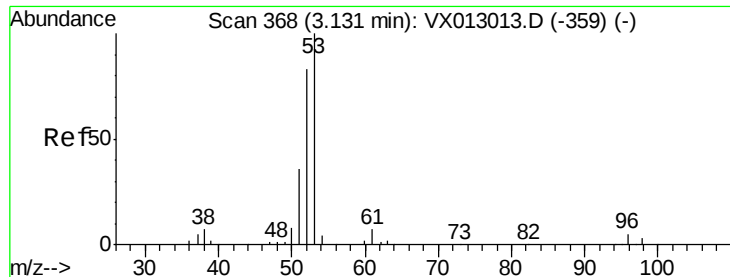
Ion Ratio Lower Upper

41 100

39 68.0 51.0 76.6

76 34.5 26.2 39.4





#15

Acrylonitrile

Concen: 2.403 ug/l

RT: 3.14 min Scan# 369

Delta R.T. -0.00 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

Instrument :

MSVOA_X

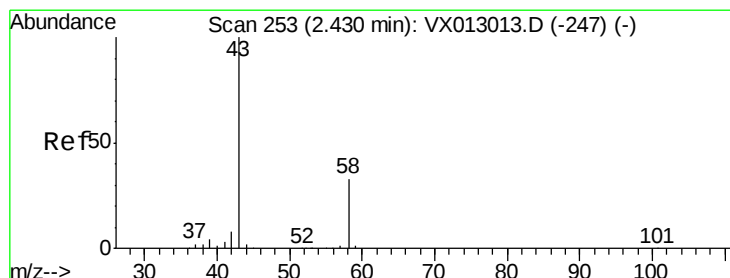
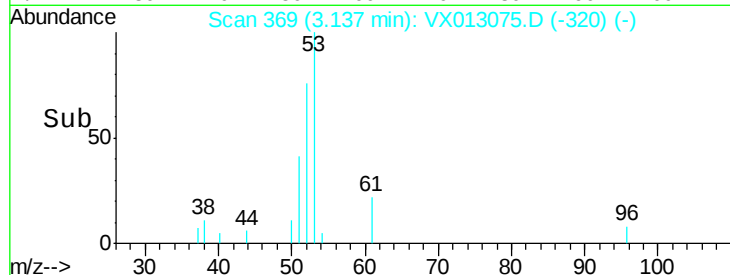
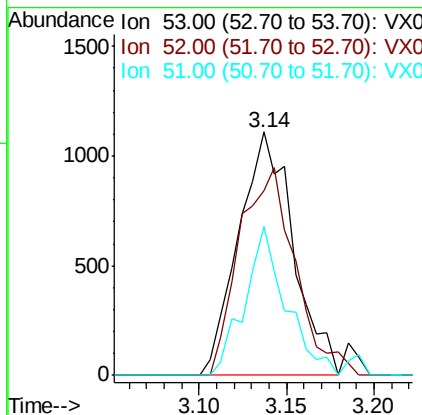
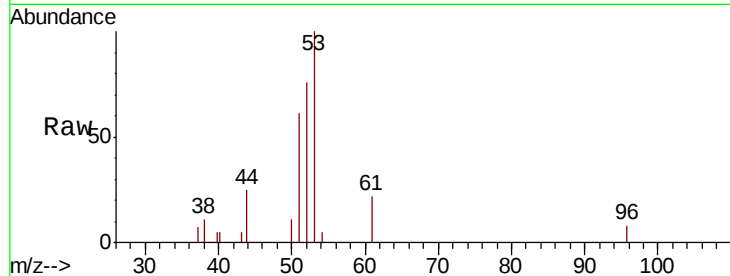
ClientSampleId :

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

Tot Ion:	53	Resp:	2417
Ion Ratio	Lower	Upper	
53	100		
52	87.5	66.2	99.2
51	46.0	28.2	42.4#

Manual Integrations
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#16

Acetone

Concen: 2.348 ug/l

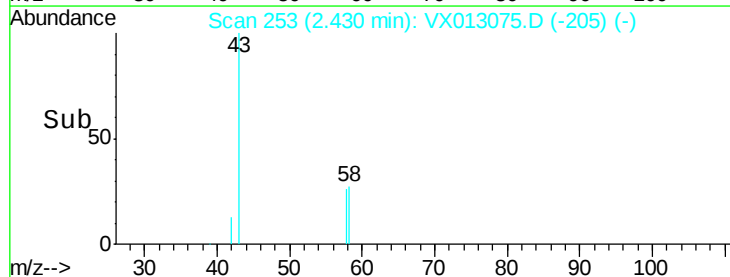
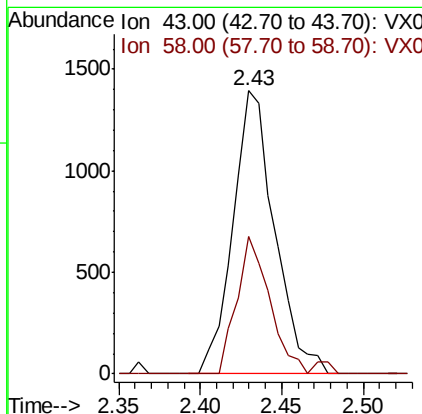
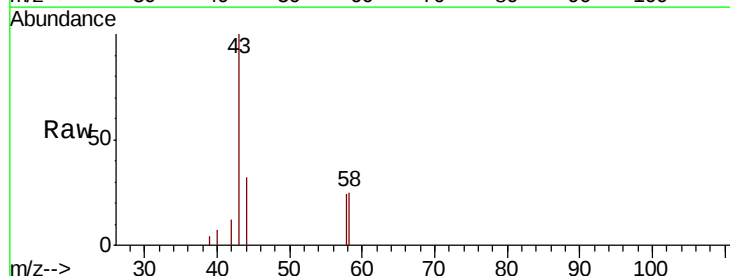
RT: 2.43 min Scan# 253

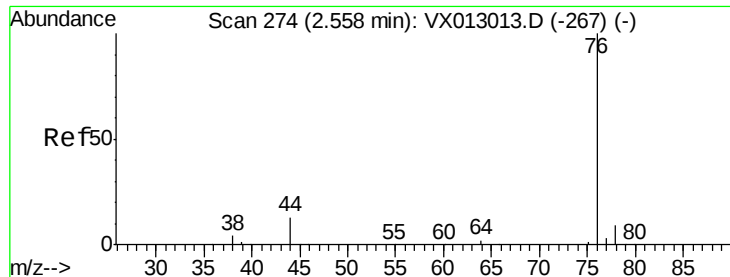
Delta R.T. -0.01 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

Tgt Ion:	43	Resp:	2478
Ion Ratio	Lower	Upper	
43	100		
58	48.6	25.4	38.2#





#17

Carbon Disulfide

Concen: 0.468 ug/l

RT: 2.56 min Scan# 275

Delta R.T. -0.00 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

Instrument :

MSVOA_X

ClientSampleId :

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

Tot Ion: 76 Resp: 2162

Ion Ratio Lower Upper

76 100

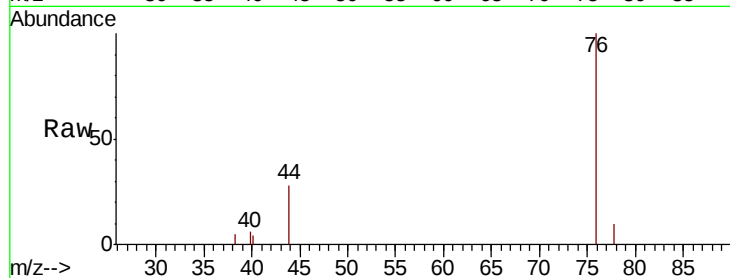
78 10.1 7.1 10.7

Manual Integrations

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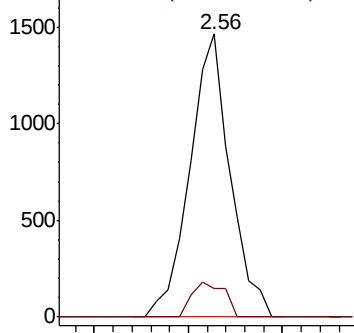
MMDadoda

10/16/2019 9:57:35 AM

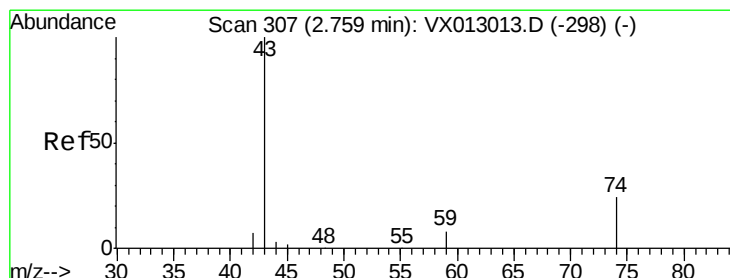
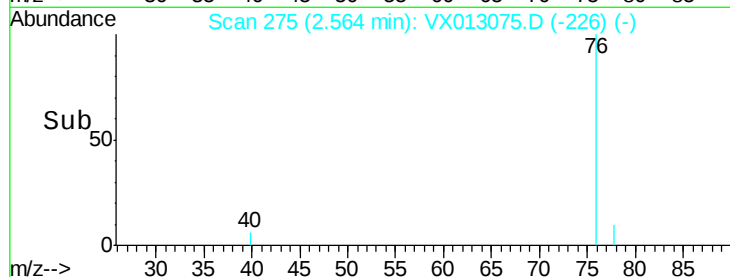


Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



Time-->



#18

Methyl Acetate

Concen: 0.536 ug/l

RT: 2.76 min Scan# 308

Delta R.T. -0.00 min

Lab File: VX013075.D

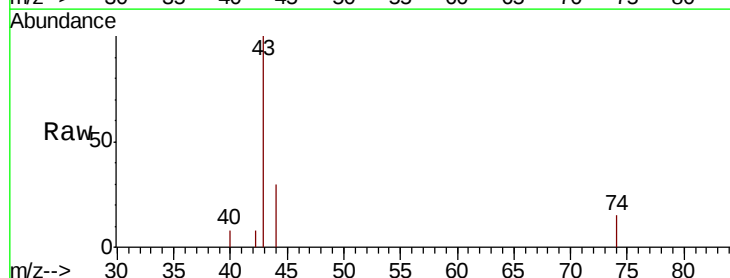
Acq: 15 Oct 2019 14:07

Tgt Ion: 43 Resp: 1340

Ion Ratio Lower Upper

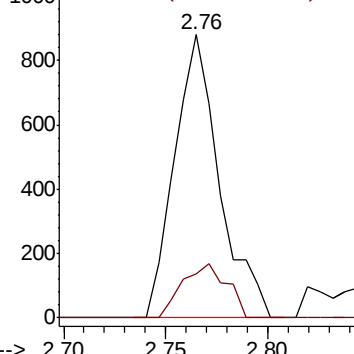
43 100

74 19.0 19.2 28.8#

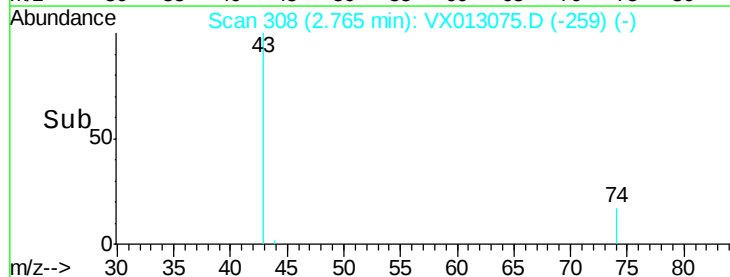


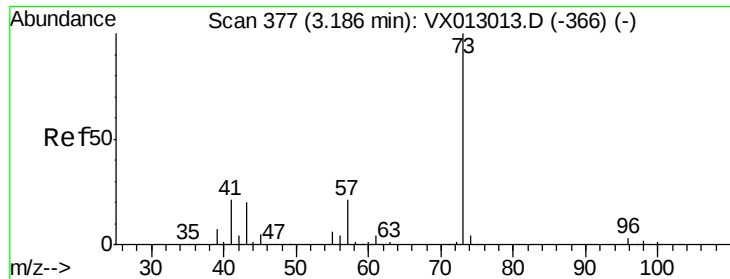
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



Time-->





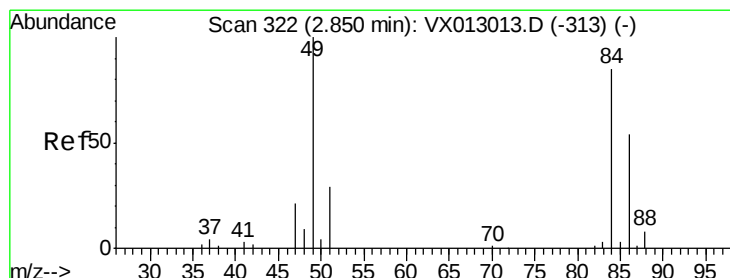
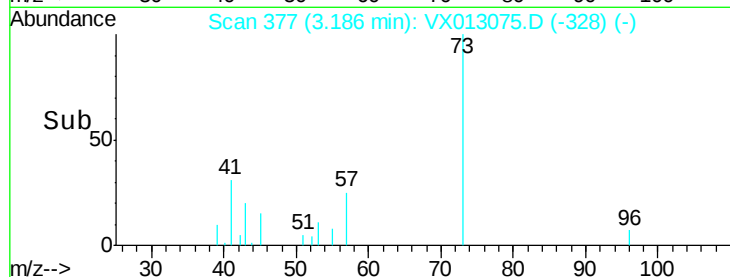
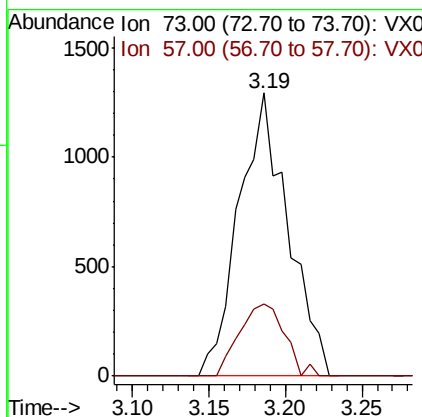
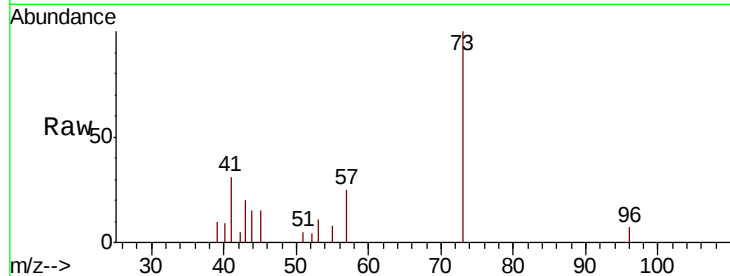
#19
Methyl tert-butyl Ether
Concen: 0.514 ug/l
RT: 3.19 min Scan# 377
Delta R.T. -0.00 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

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

Tot Ion	Ratio	Lower	Upper
73	100		
57	25.4	17.8	26.6

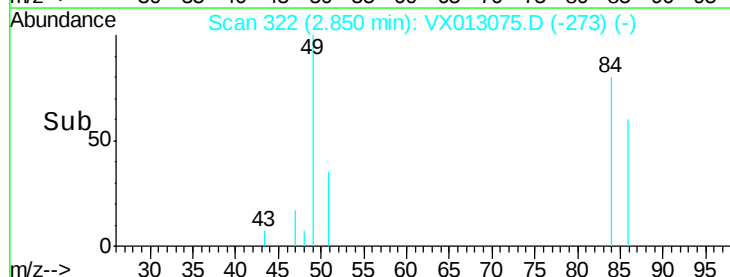
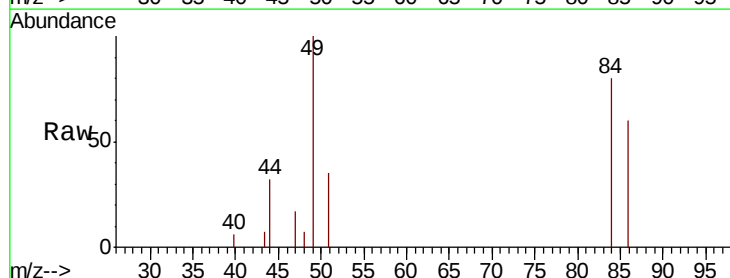
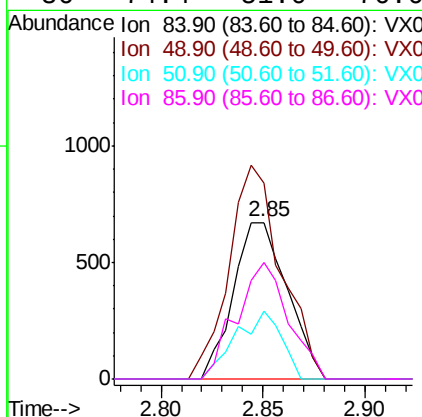
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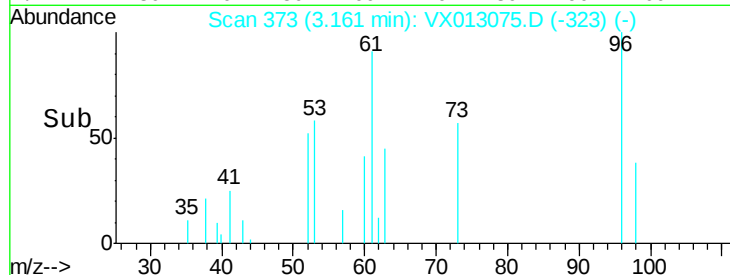
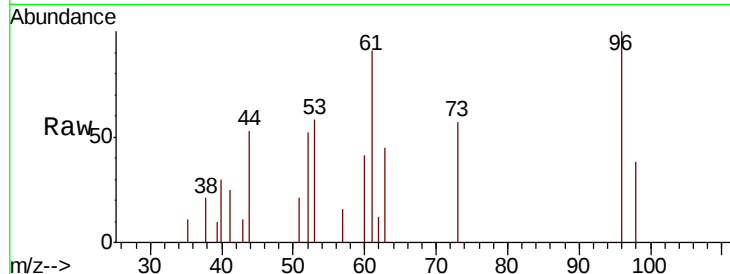
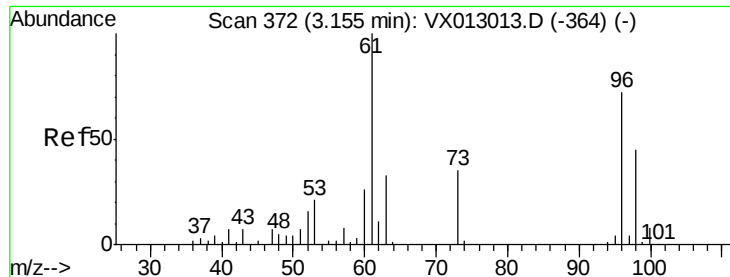
MMDadoda
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#20
Methylene Chloride
Concen: 0.636 ug/l
RT: 2.85 min Scan# 322
Delta R.T. -0.00 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

Tgt Ion	Ratio	Lower	Upper
84	100		
49	125.0	96.6	144.8
51	43.6	30.7	46.1
86	74.4	51.0	76.6





#21

trans-1,2-Dichloroethene

Concen: 0.545 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

Tot Ion: 96 Resp: 945

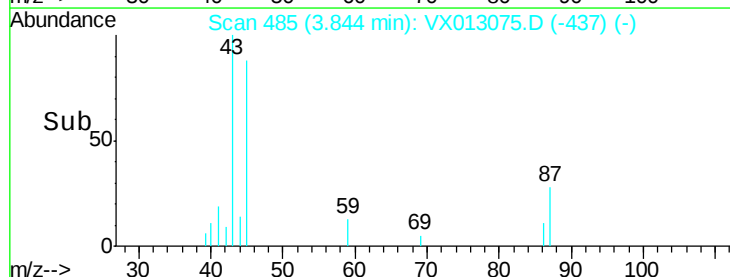
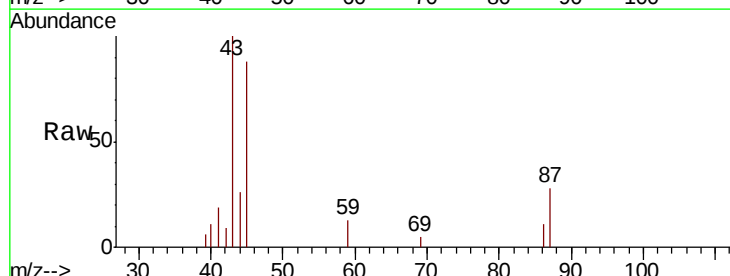
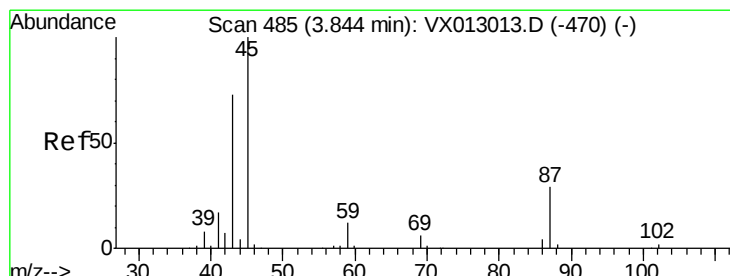
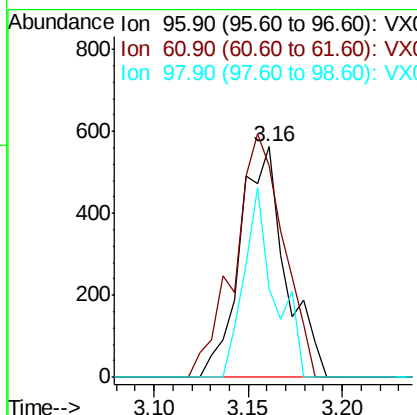
Ion	Ratio	Lower	Upper
96	100		
61	91.5	110.4	165.6#
98	38.2	51.5	77.3#

Instrument : MSVOA_X

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

Manual Integrations
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MMDadoda
10/16/2019 9:57:35 AM



#22

Diisopropyl ether

Concen: 0.517 ug/l

RT: 3.84 min Scan# 485

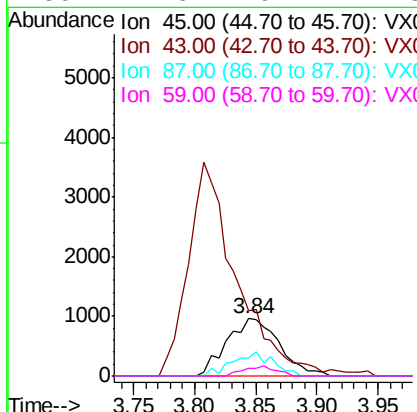
Delta R.T. -0.01 min

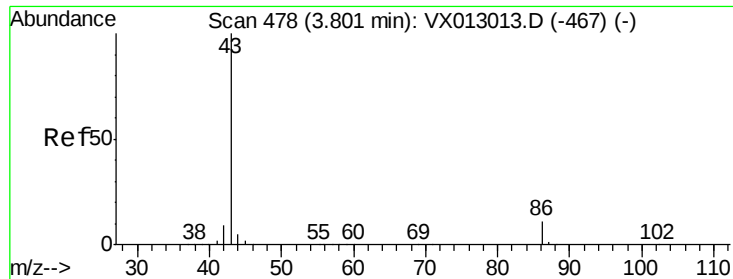
Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

Tgt Ion: 45 Resp: 2856

Ion	Ratio	Lower	Upper
45	100		
43	104.7	51.4	77.0#
87	31.9	22.5	33.7
59	14.6	9.7	14.5#





#23

Vinyl Acetate

Concen: 2.088 ug/l

RT: 3.81 min Scan# 479

Delta R.T. -0.00 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

Instrument :

MSVOA_X

ClientSampleId :

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

Tot Ion: 43 Resp: 9956

Ion Ratio Lower Upper

43 100

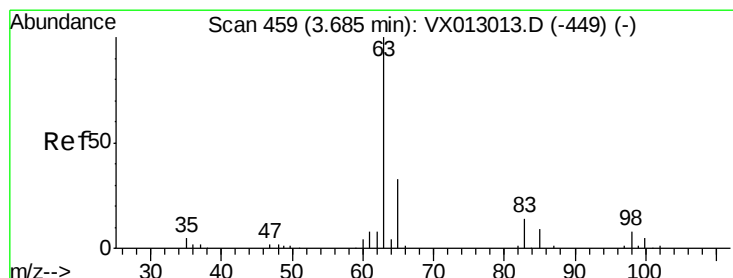
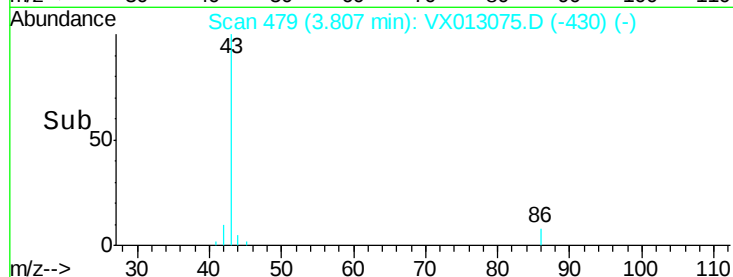
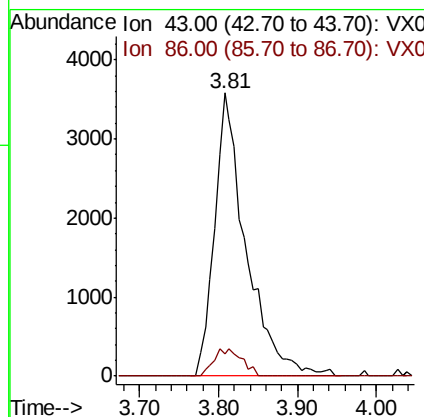
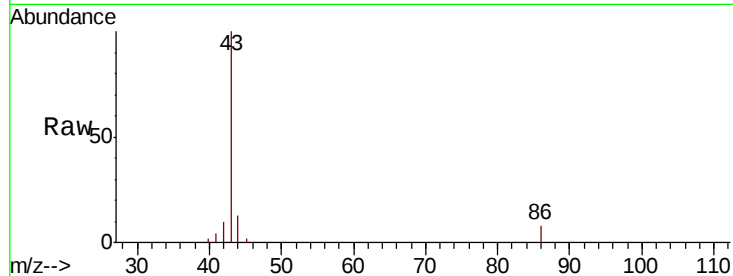
86 7.9 9.0 13.6#

Manual Integrations

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MMDadoda

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#24

1,1-Dichloroethane

Concen: 0.495 ug/l

RT: 3.69 min Scan# 459

Delta R.T. -0.00 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

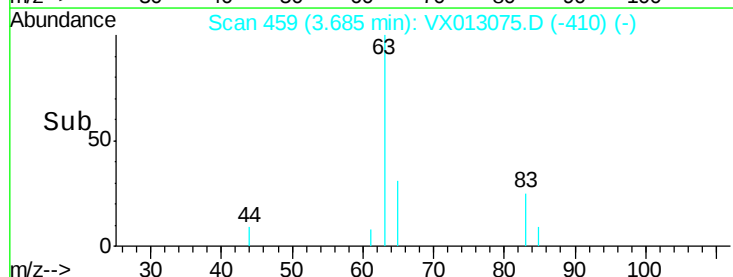
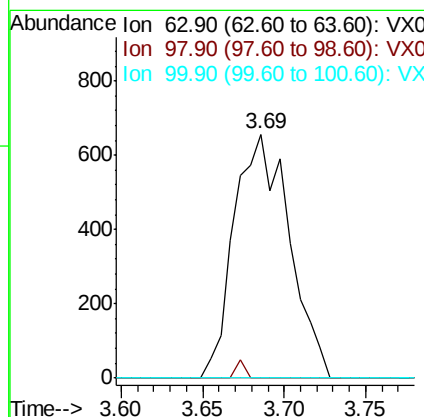
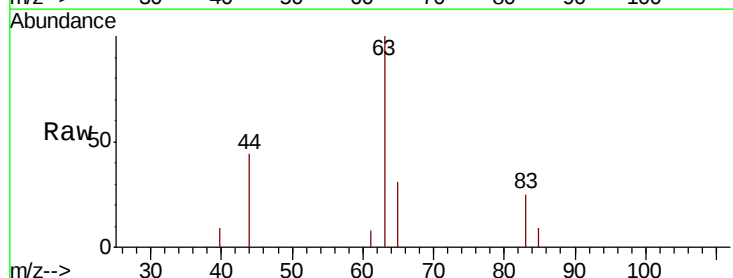
Tgt Ion: 63 Resp: 1538

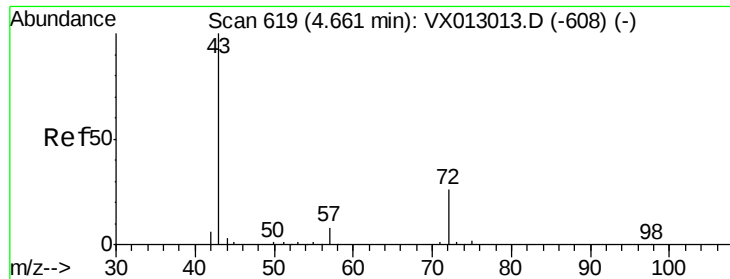
Ion Ratio Lower Upper

63 100

98 0.0 3.9 11.5#

100 0.0 2.3 6.9#





#25

2-Butanone

Concen: 2.264 ug/l

RT: 4.67 min Scan# 621

Delta R.T. 0.01 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

Instrument :

MSVOA_X

ClientSampleId :

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

Tot Ion: 43 Resp: 3315

Ion Ratio Lower Upper

43 100

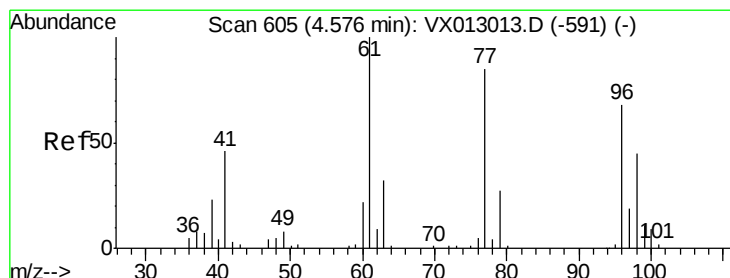
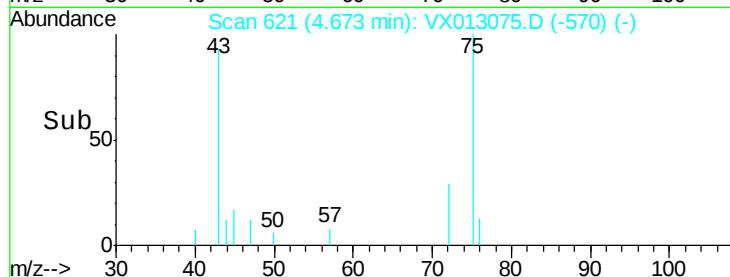
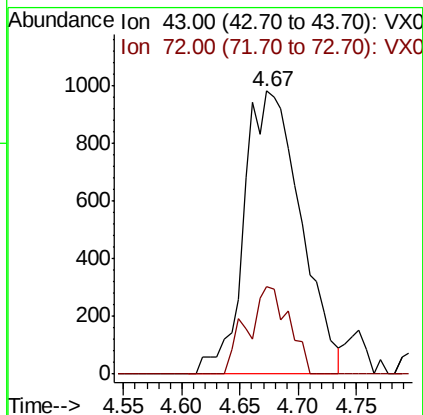
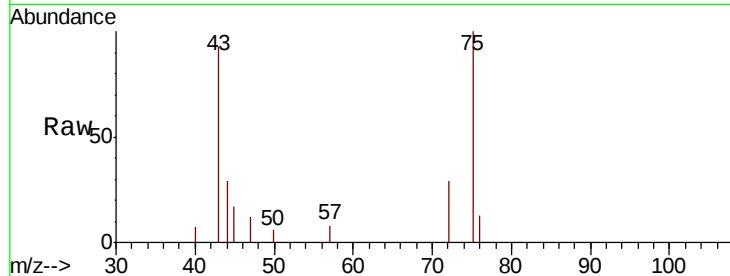
72 30.8 21.0 31.6

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 0.462 ug/l

RT: 4.56 min Scan# 603

Delta R.T. -0.01 min

Lab File: VX013075.D

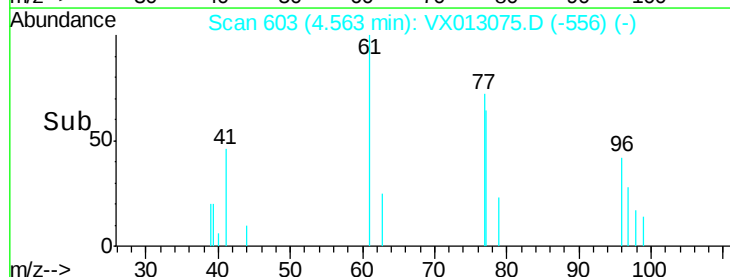
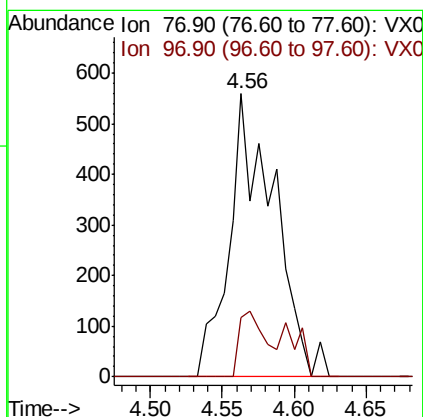
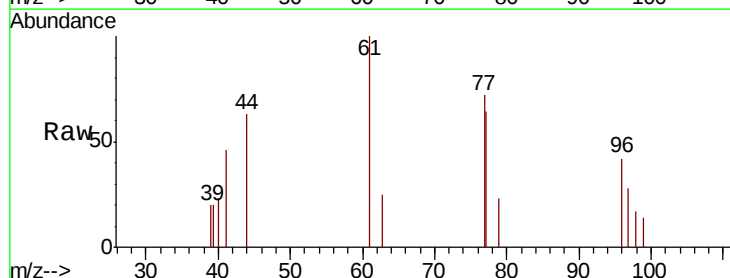
Acq: 15 Oct 2019 14:07

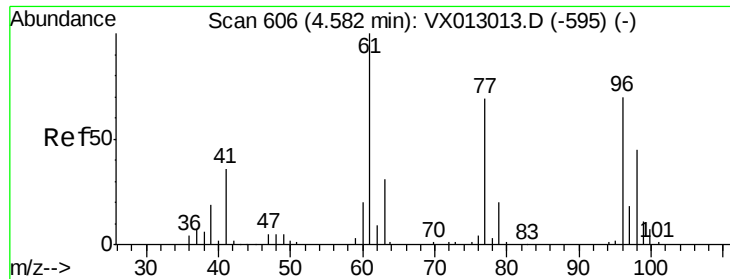
Tgt Ion: 77 Resp: 1207

Ion Ratio Lower Upper

77 100

97 13.9 11.3 33.9





#27

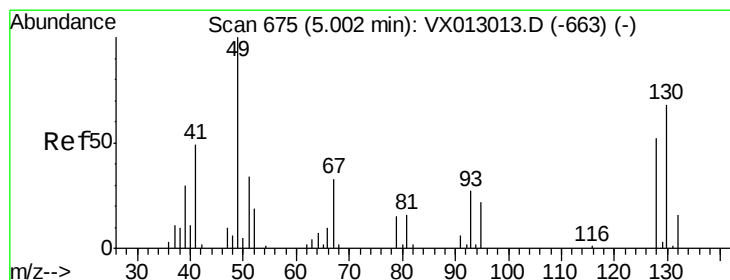
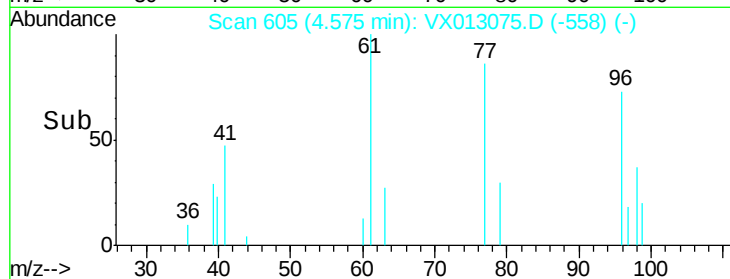
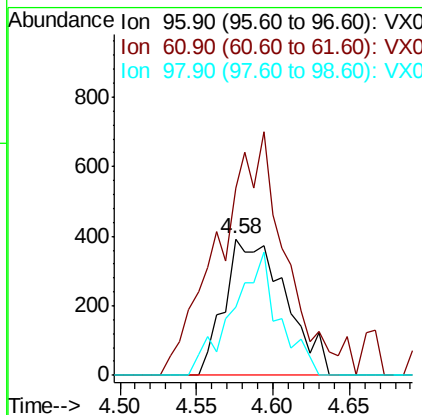
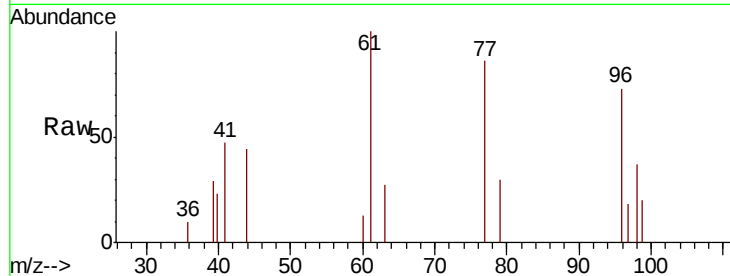
cis-1,2-Dichloroethene
Concen: 0.541 ug/l
RT: 4.58 min Scan# 605
Delta R.T. -0.01 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

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

Tot Ion	Ratio	Resp	Lower	Upper
96	100	1082		
61	193.7		0.0	290.6
98	68.9		0.0	128.8

Manual Integrations
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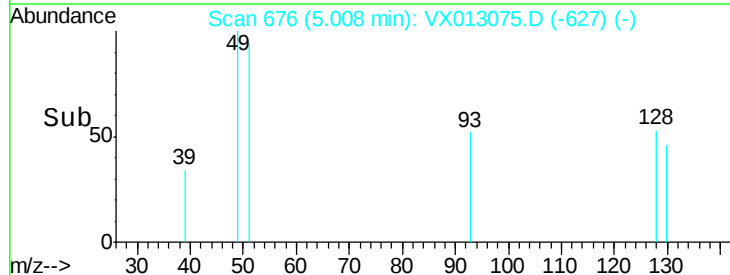
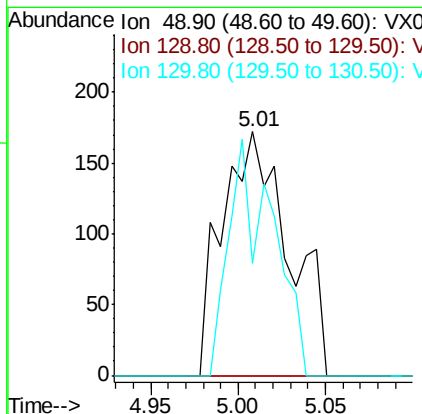
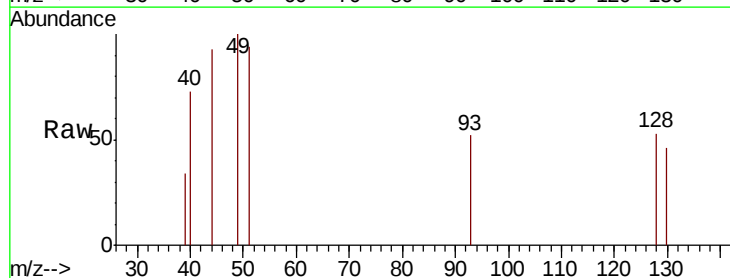
MMDadoda
10/16/2019 9:57:35 AM

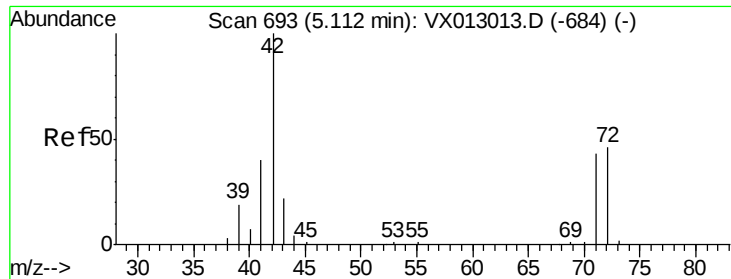


#28

Bromochloromethane
Concen: 0.517 ug/l
RT: 5.01 min Scan# 676
Delta R.T. 0.00 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	460		
129	0.0		0.0	4.2
130	63.3		62.1	93.1





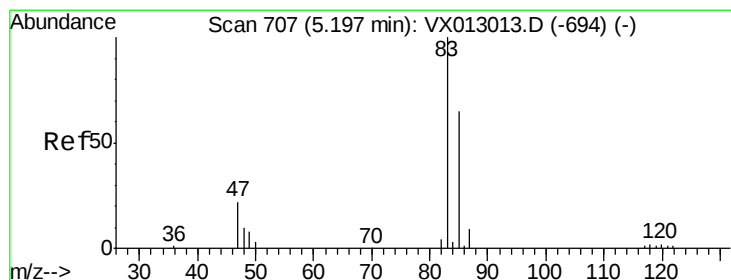
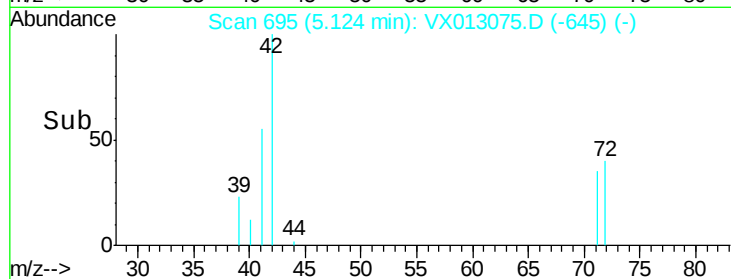
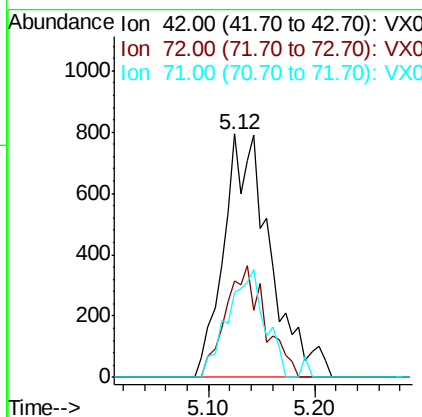
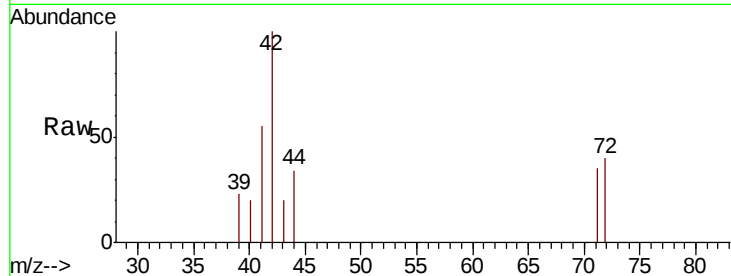
#29
Tetrahydrofuran
Concen: 2.684 ug/l
RT: 5.12 min Scan# 695
Delta R.T. 0.01 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

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

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.8	36.9	55.3
71	35.4	33.5	50.3

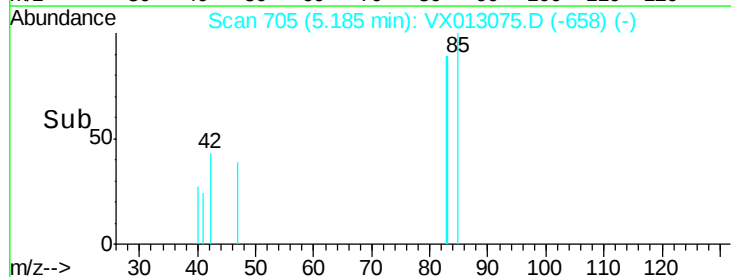
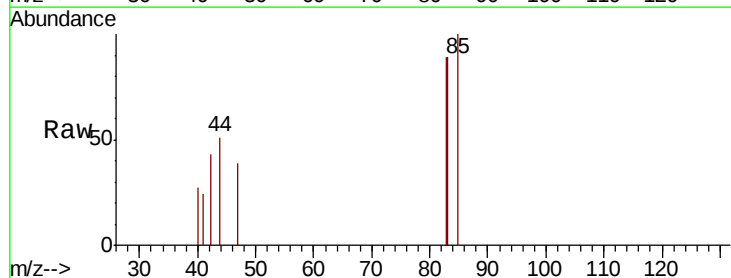
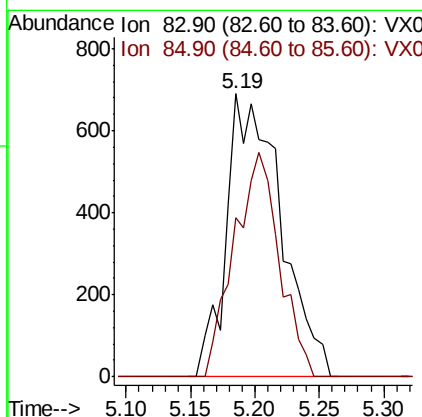
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APPROVED

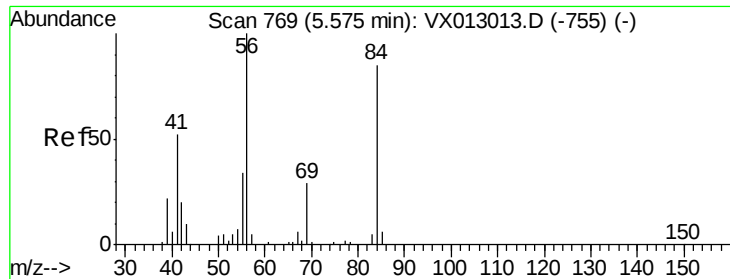
MMDadoda
10/16/2019 9:57:35 AM



#30
Chloroform
Concen: 0.634 ug/l
RT: 5.19 min Scan# 705
Delta R.T. -0.01 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

Tgt Ion	Ratio	Lower	Upper
83	100		
85	56.1	51.5	77.3





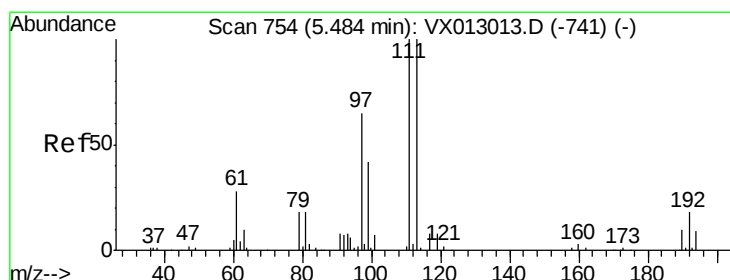
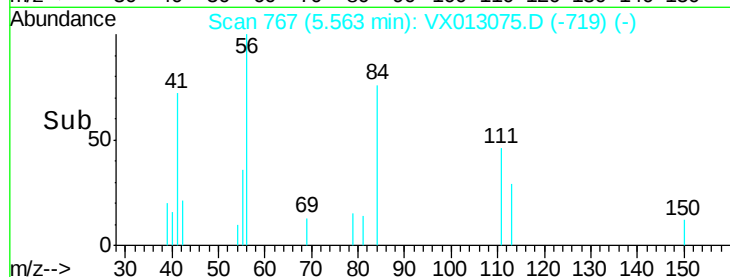
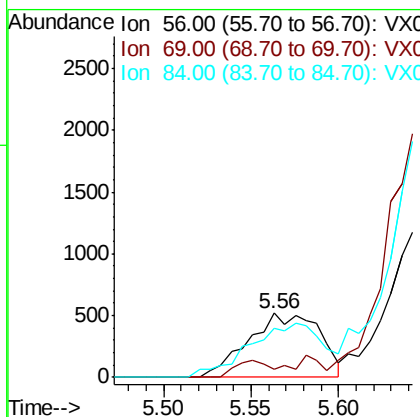
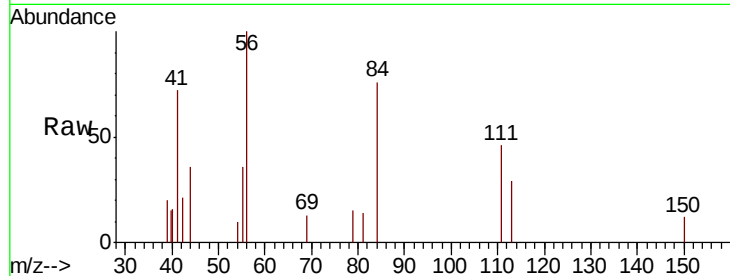
#31
Cyclohexane
Concen: 0.508 ug/l
RT: 5.56 min Scan# 767
Delta R.T. -0.01 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

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

Tot Ion	Ratio	Lower	Upper
56	100		
69	13.5	25.2	37.8#
84	76.0	71.3	106.9

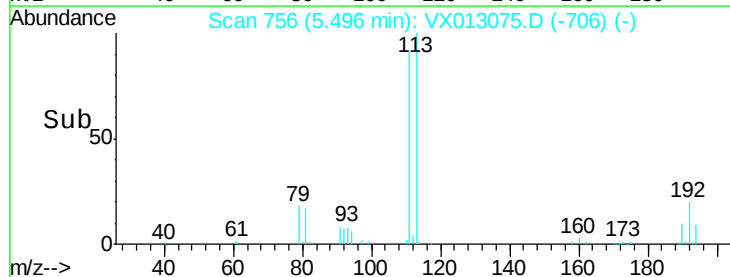
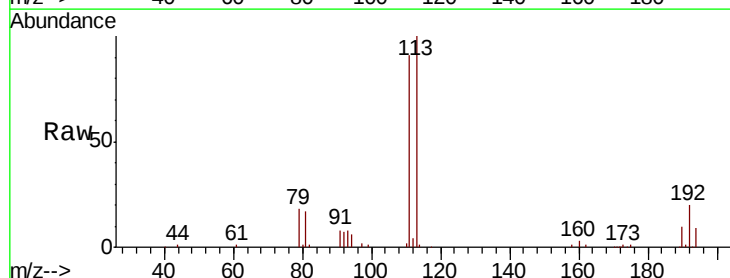
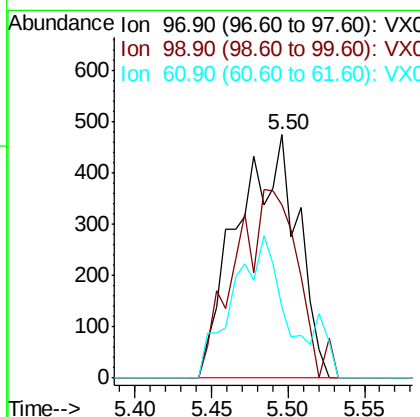
Manual Integrations
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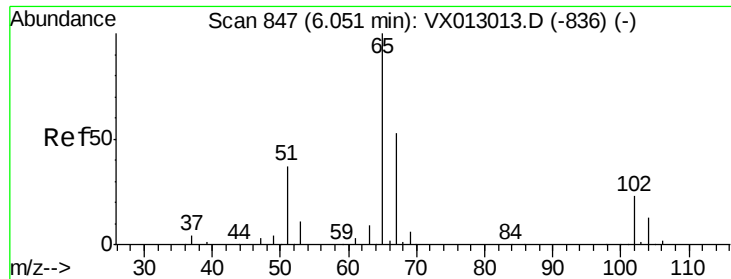
MMDadoda
10/16/2019 9:57:35 AM



#32
1,1,1-Trichloroethane
Concen: 0.480 ug/l
RT: 5.50 min Scan# 756
Delta R.T. 0.01 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

Tgt Ion	Ratio	Lower	Upper
97	100		
99	0.0	52.3	78.5#
61	49.8	35.0	52.4





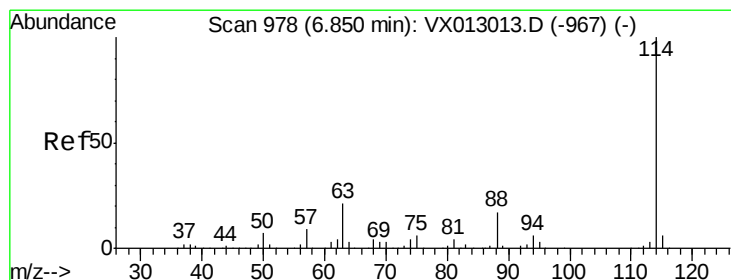
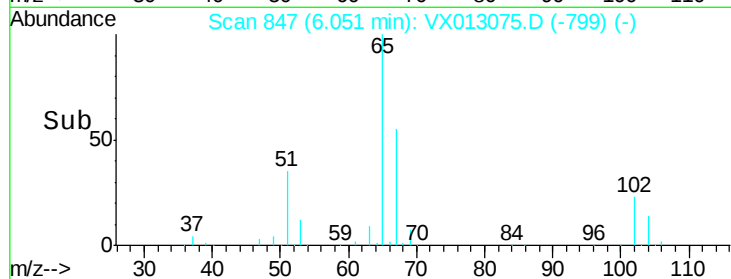
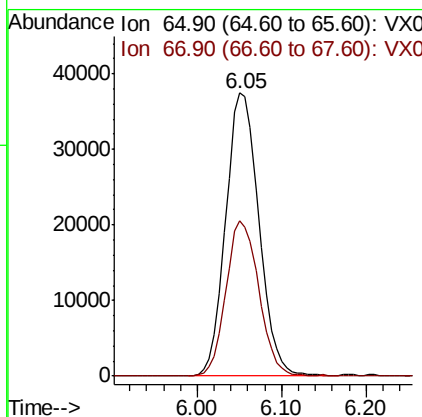
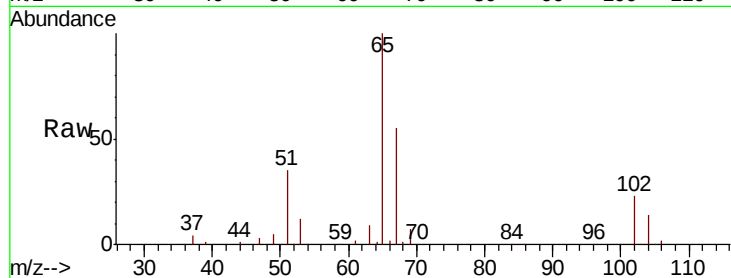
#33
 1,2-Dichloroethane-d4
 Concen: 50.230 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.01 min
 Lab File: VX013075.D
 Acq: 15 Oct 2019 14:07

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

Tot Ion	Ratio	Resp	Lower	Upper
65	100	100576		
67	54.1	0.0	104.4	

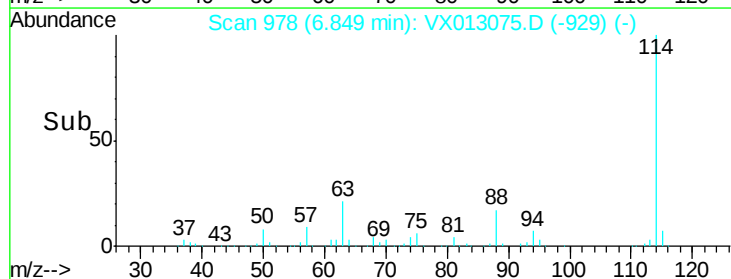
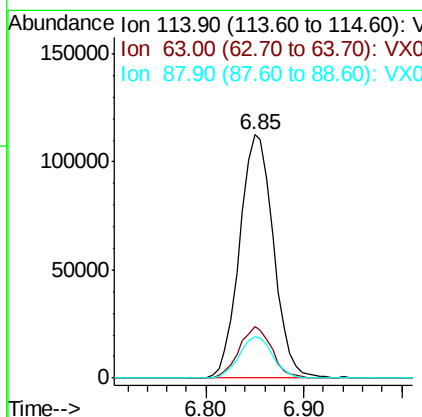
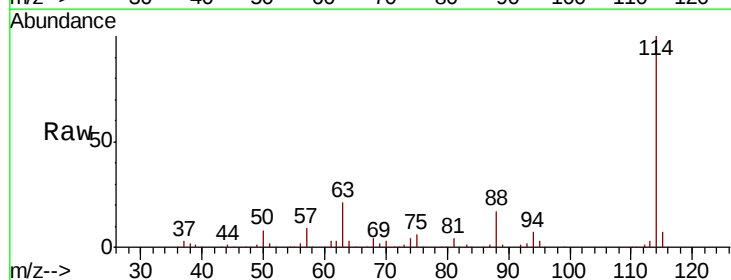
Manual Integrations
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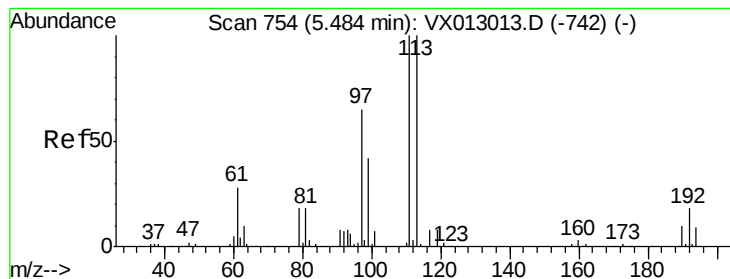
MMDadoda
 10/16/2019 9:57:35 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX013075.D
 Acq: 15 Oct 2019 14:07

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	271122		
63	21.4	0.0	40.8	
88	16.8	0.0	33.8	





#35

Dibromofluoromethane

Concen: 50.352 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

Instrument :

MSVOA_X

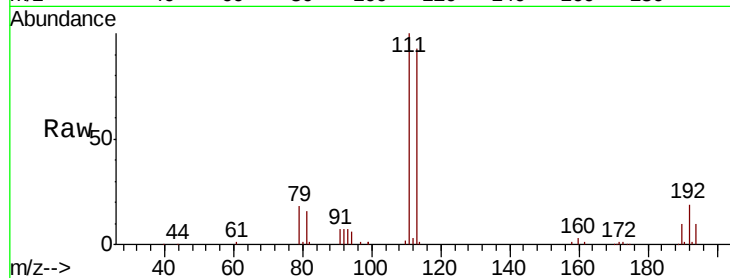
ClientSampleId :

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

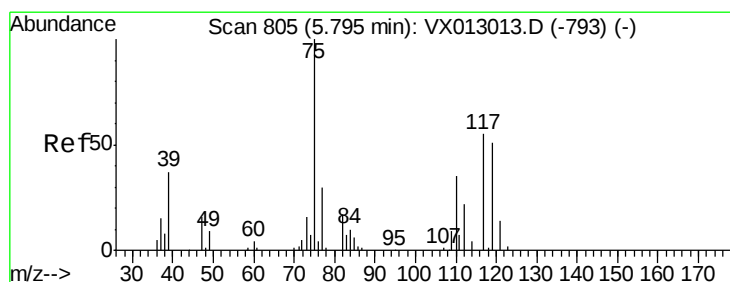
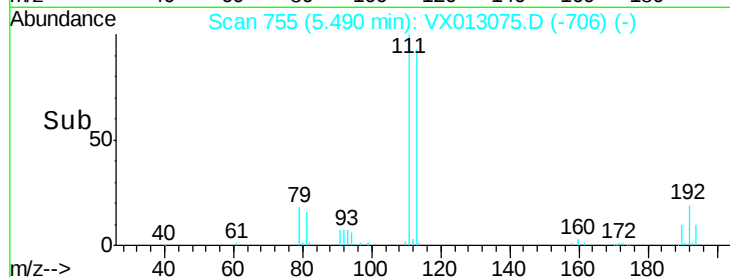
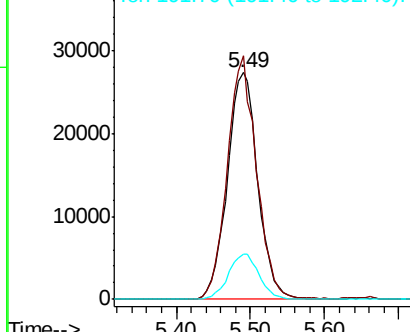
Tot Ion:	113	Resp:	78352
Ion Ratio	Lower	Upper	
113	100		
111	102.9	83.2	124.8
192	20.1	15.4	23.2

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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: 0.529 ug/l

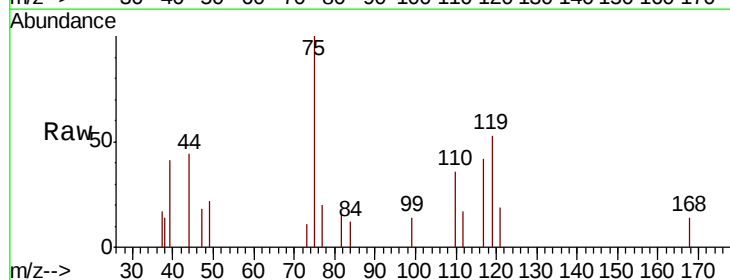
RT: 5.79 min Scan# 805

Delta R.T. 0.01 min

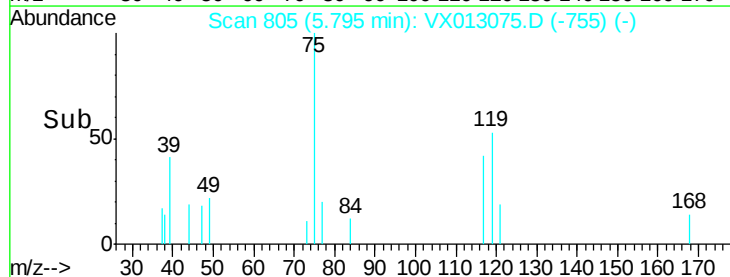
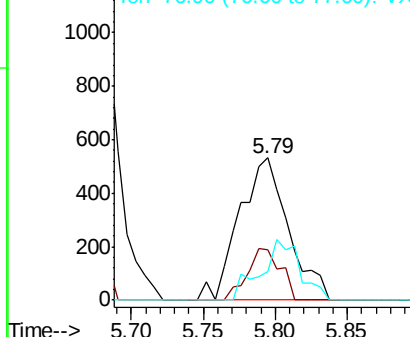
Lab File: VX013075.D

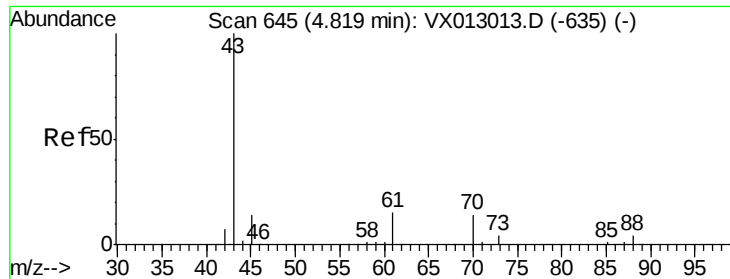
Acq: 15 Oct 2019 14:07

Tgt Ion:	75	Resp:	1260
Ion Ratio	Lower	Upper	
75	100		
110	24.5	17.6	52.9
77	34.0	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: 0.559 ug/l m

RT: 4.83 min Scan# 646

Delta R.T. 0.01 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

Instrument :

MSVOA_X

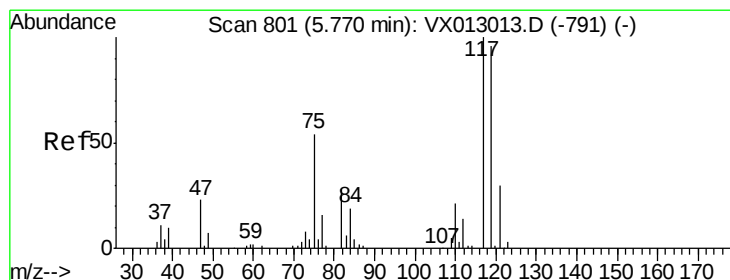
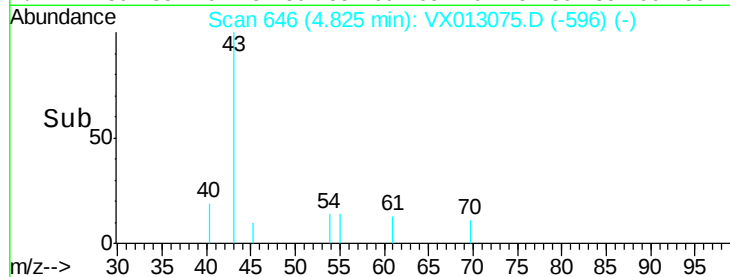
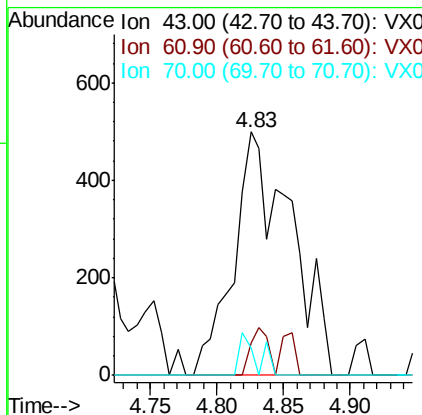
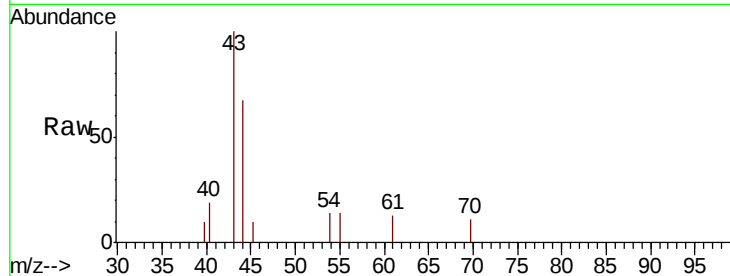
ClientSampleId :

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

Tot Ion:	43	Resp:	1489
Ion	Ratio	Lower	Upper
43	100		
61	6.0	11.4	17.0#
70	3.5	9.8	14.6#

Manual Integrations
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MMDadoda
10/16/2019 9:57:35 AM



#38

Carbon Tetrachloride

Concen: 0.548 ug/l

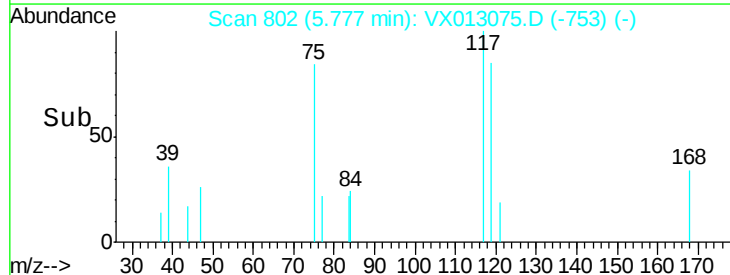
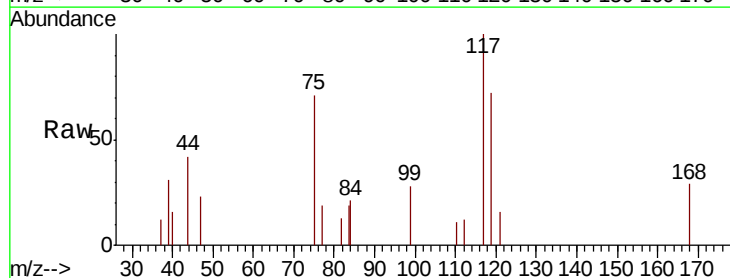
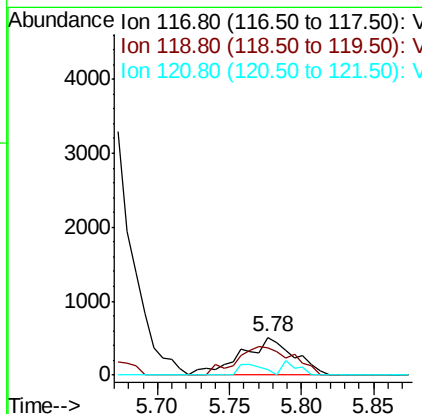
RT: 5.78 min Scan# 802

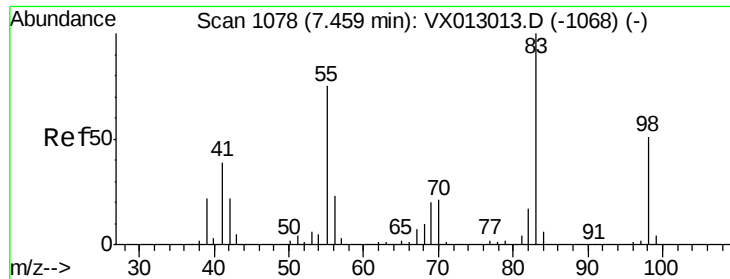
Delta R.T. -0.00 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

Tgt Ion:	117	Resp:	1271
Ion	Ratio	Lower	Upper
117	100		
119	72.2	74.5	111.7#
121	16.1	24.2	36.4#





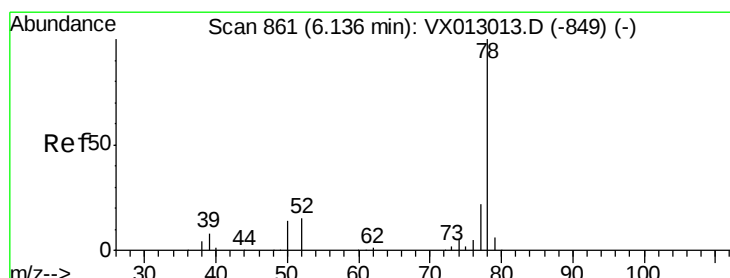
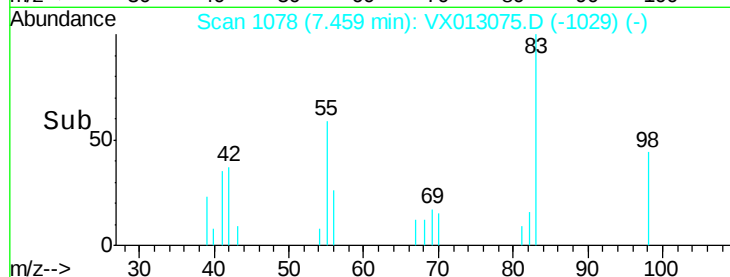
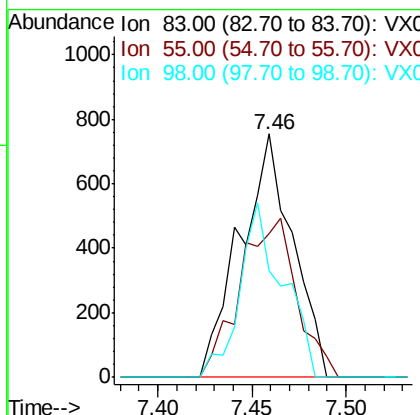
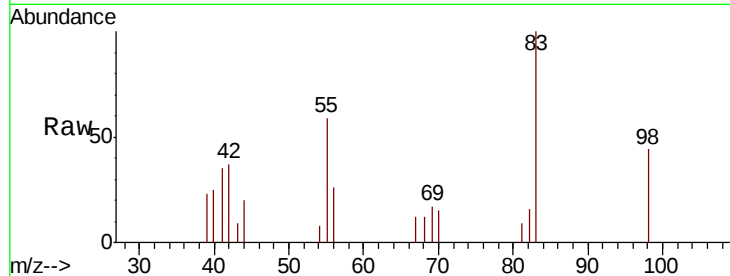
#39
Methvlcvclohexane
Concen: 0.505 ug/l
RT: 7.46 min Scan# 1078
Delta R.T. -0.00 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

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

Tot Ion	Ratio	Lower	Upper
83	100		
55	59.2	60.2	90.4#
98	44.0	38.5	57.7

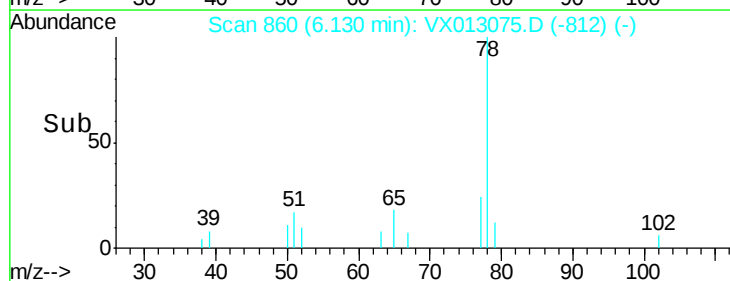
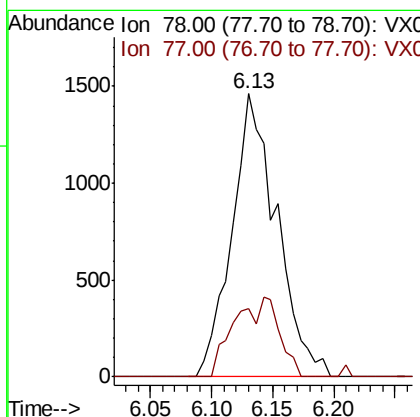
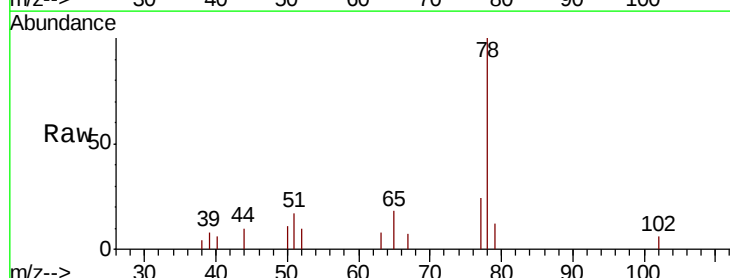
Manual Integrations
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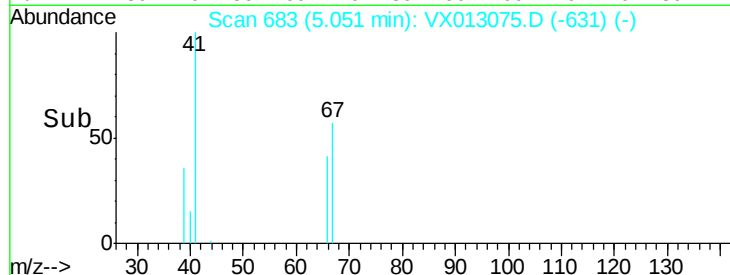
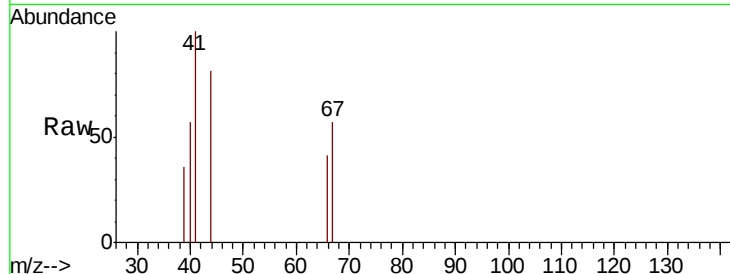
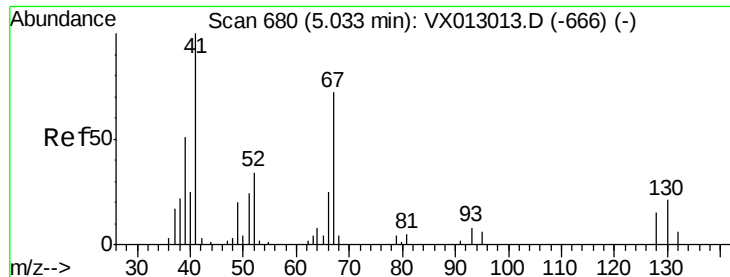
MMDadoda
10/16/2019 9:57:35 AM



#40
Benzene
Concen: 0.527 ug/l
RT: 6.13 min Scan# 860
Delta R.T. -0.01 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.0	28.4





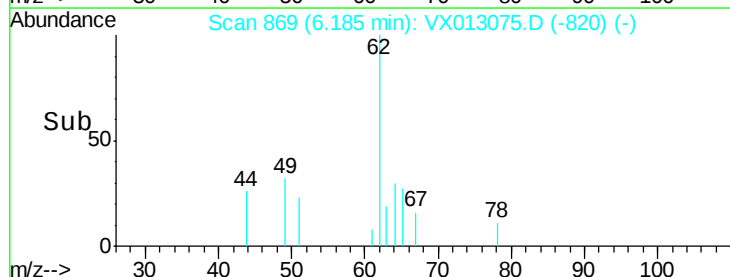
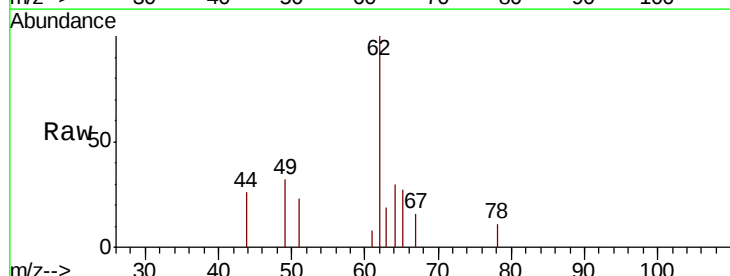
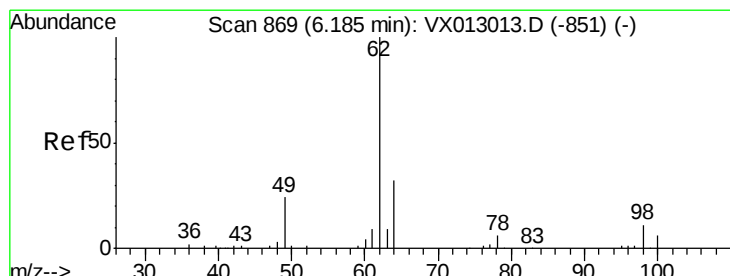
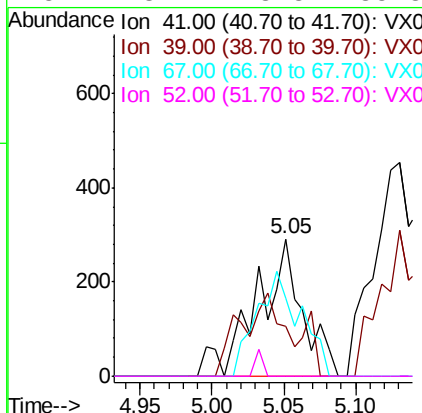
#41
Methacrylonitrile
Concen: 0.444 ug/l
RT: 5.05 min Scan# 683
Delta R.T. 0.02 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	55.0	44.0	66.0	
67	72.2	58.5	87.7	
52	3.2	23.8	35.8	

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

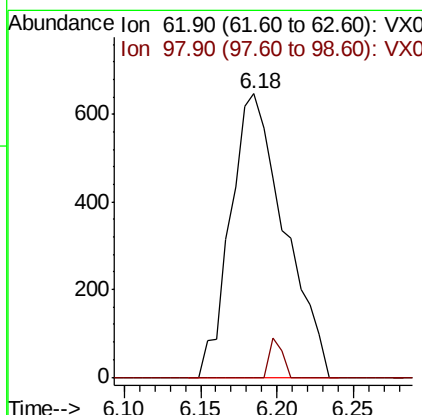
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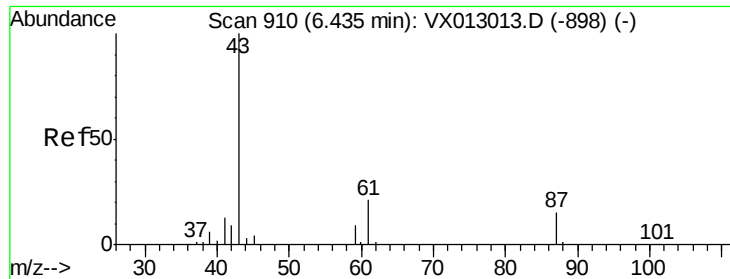
MMDadoda
10/16/2019 9:57:35 AM



#42
1,2-Dichloroethane
Concen: 0.626 ug/l
RT: 6.18 min Scan# 869
Delta R.T. -0.00 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	3.4	0.0	20.4	





#43

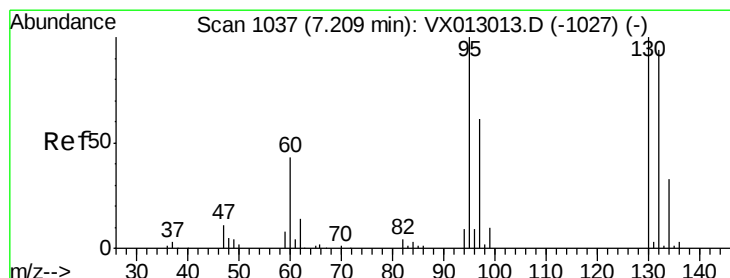
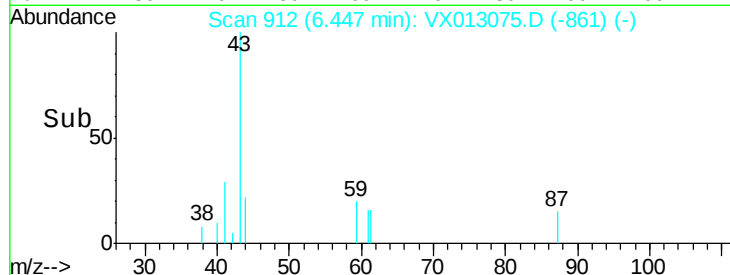
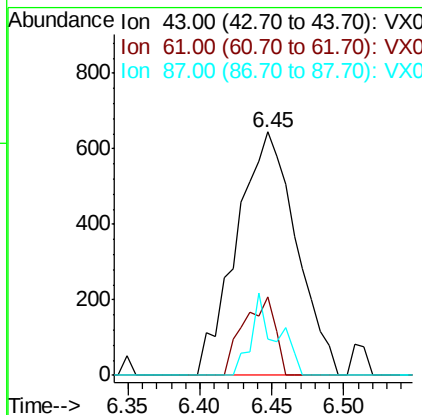
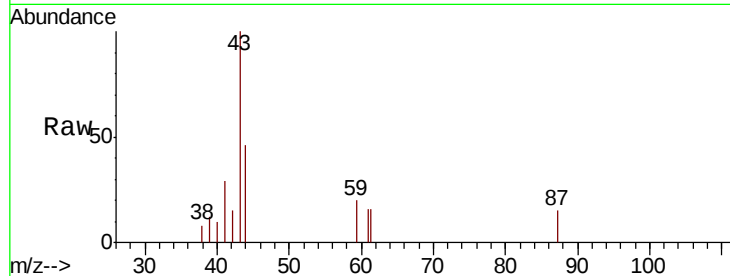
Isopropyl Acetate
 Concen: 0.434 ug/l
 RT: 6.45 min Scan# 912
 Delta R.T. 0.01 min
 Lab File: VX013075.D
 Acq: 15 Oct 2019 14:07

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

Tot Ion	43	61	87
Resp	1857		
Ratio	100	17.2	14.0
Lower		16.6	11.0
Upper		24.8	16.6

Manual Integrations
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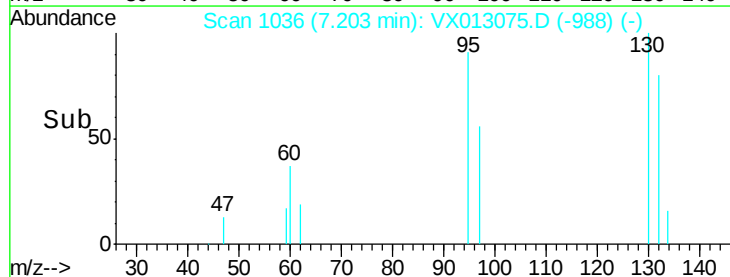
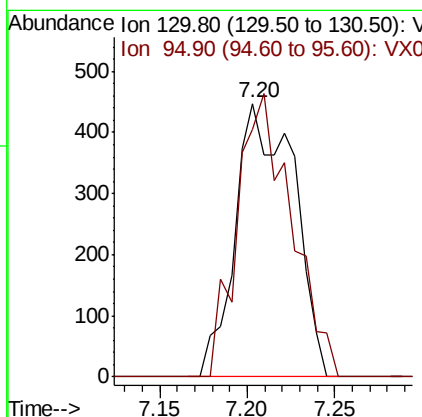
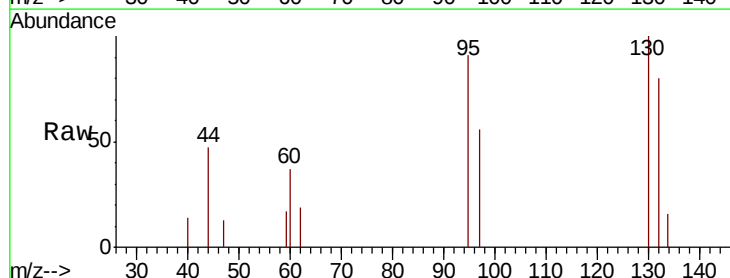
MMDadoda
 10/16/2019 9:57:35 AM

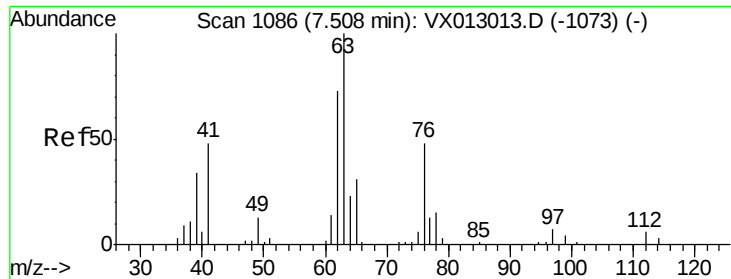


#44

Trichloroethene
 Concen: 0.538 ug/l
 RT: 7.20 min Scan# 1036
 Delta R.T. -0.01 min
 Lab File: VX013075.D
 Acq: 15 Oct 2019 14:07

Tgt Ion	130	95
Resp	1050	
Ratio	100	90.6
Lower		0.0
Upper		189.2





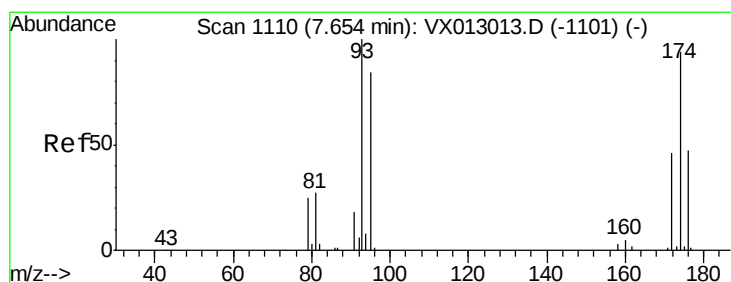
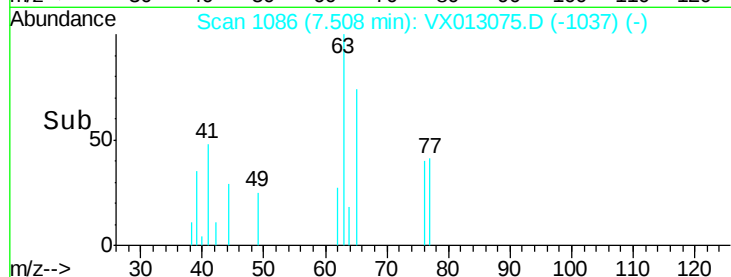
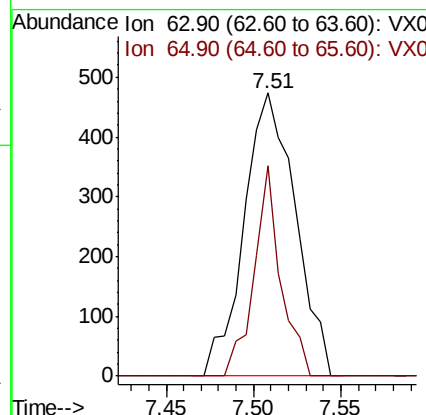
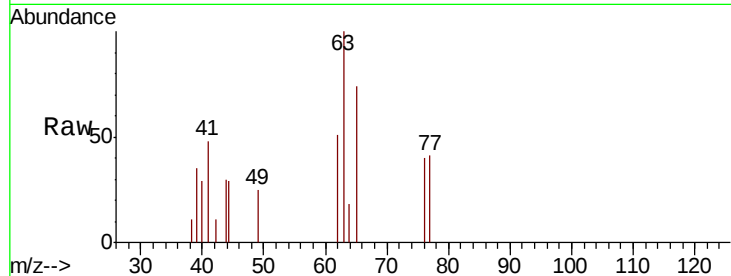
#45
 1,2-Dichloropropane
 Concen: 0.539 ug/l
 RT: 7.51 min Scan# 1086
 Delta R.T. -0.00 min
 Lab File: VX013075.D
 Acq: 15 Oct 2019 14:07

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

Tot Ion: 63 Resp: 968
 Ion Ratio Lower Upper
 63 100
 65 74.2 24.6 37.0#

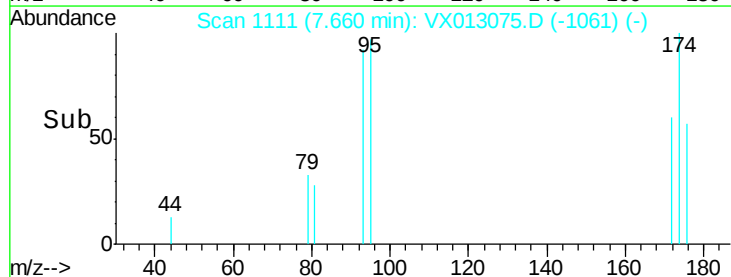
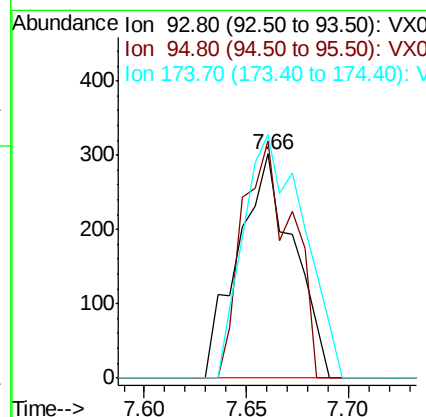
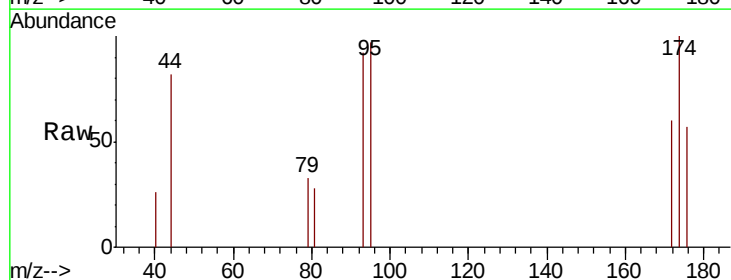
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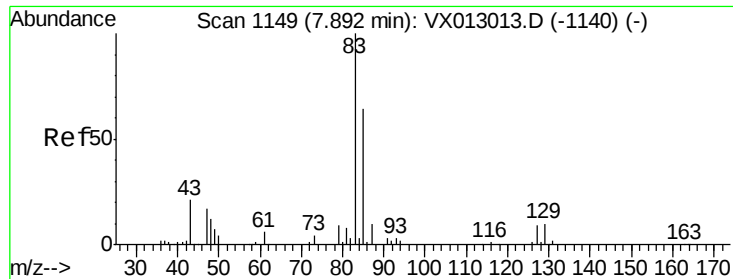
MMDadoda
 10/16/2019 9:57:35 AM



#46
 Dibromomethane
 Concen: 0.478 ug/l
 RT: 7.66 min Scan# 1111
 Delta R.T. 0.01 min
 Lab File: VX013075.D
 Acq: 15 Oct 2019 14:07

Tgt Ion: 93 Resp: 572
 Ion Ratio Lower Upper
 93 100
 95 93.9 66.3 99.5
 174 117.7 77.8 116.6#





#47

Bromodichloromethane

Concen: 0.474 ug/l

RT: 7.89 min Scan# 1149

Delta R.T. -0.00 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

Instrument :

MSVOA_X

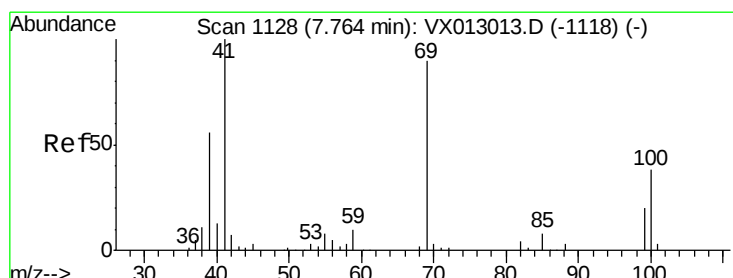
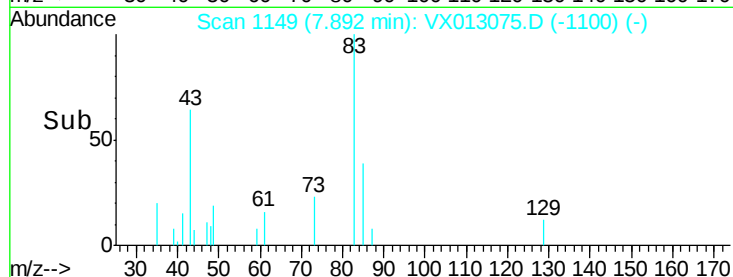
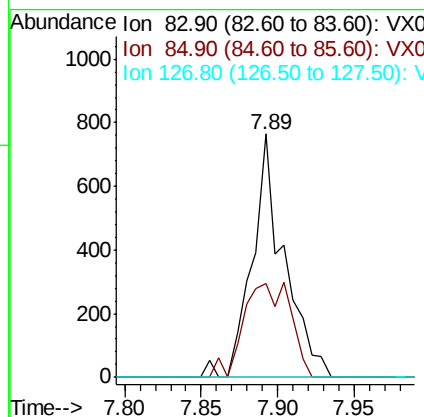
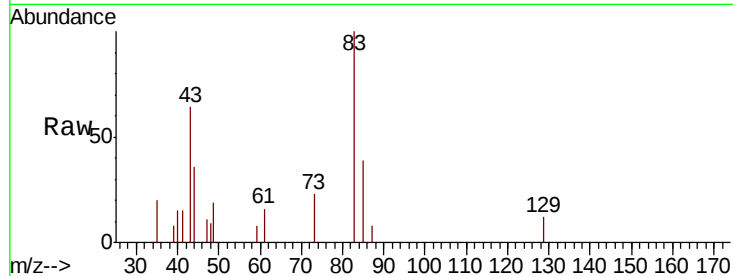
ClientSampleId :

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

Tot Ion:	83	Resp:	1107
Ion	Ratio	Lower	Upper
83	100		
85	38.7	52.4	78.6#
127	0.0	6.6	10.0#

Manual Integrations
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MMDadoda
10/16/2019 9:57:35 AM



#48

Methyl methacrylate

Concen: 0.496 ug/l

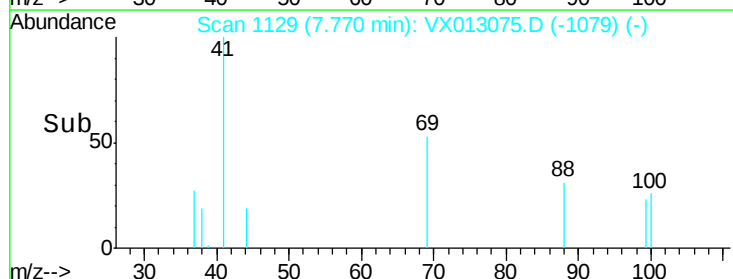
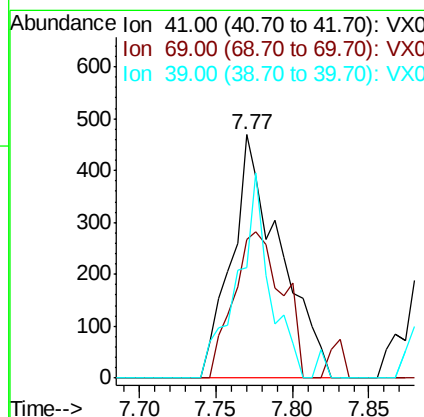
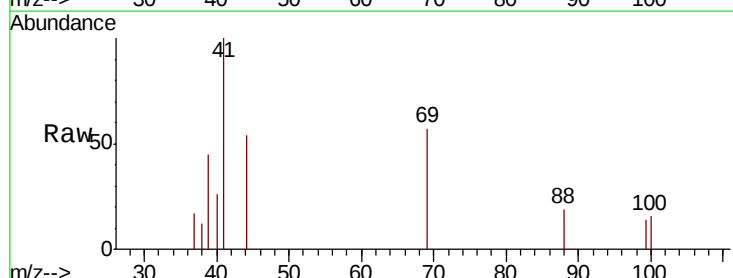
RT: 7.77 min Scan# 1129

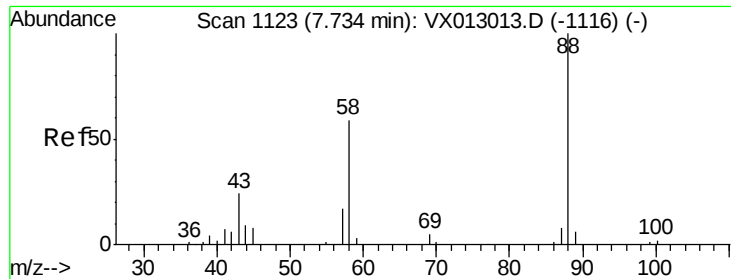
Delta R.T. 0.01 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

Tgt Ion:	41	Resp:	1034
Ion	Ratio	Lower	Upper
41	100		
69	60.3	68.7	103.1#
39	55.7	44.3	66.5





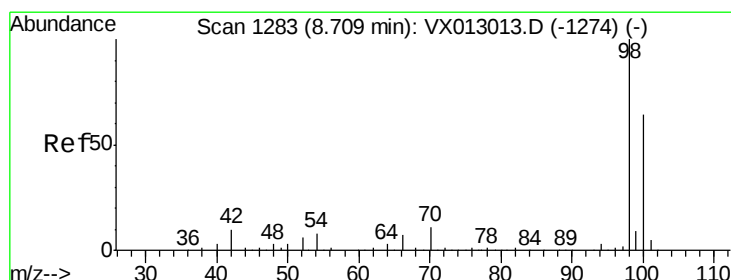
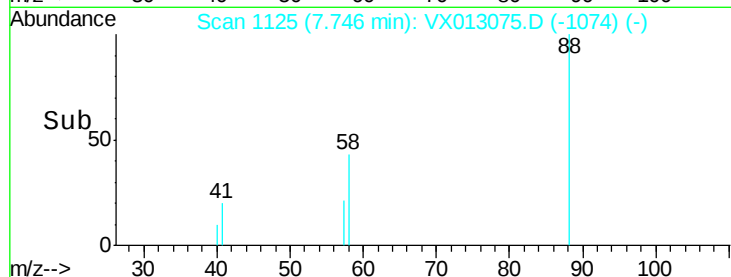
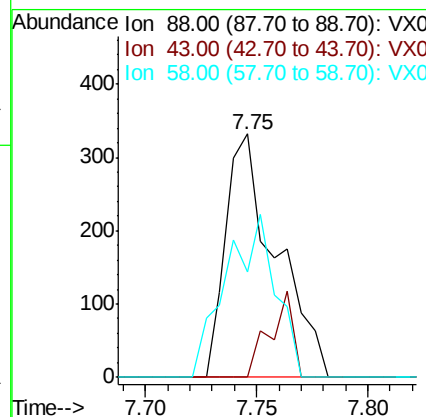
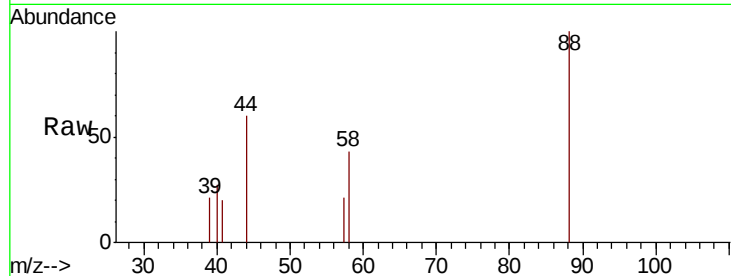
#49
1,4-Dioxane
Concen: 10.337 ug/l
RT: 7.75 min Scan# 1125
Delta R.T. 0.01 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

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

Tot Ion	Ratio	Lower	Upper
88	100		
43	16.3	25.0	37.6#
58	66.2	55.4	83.2

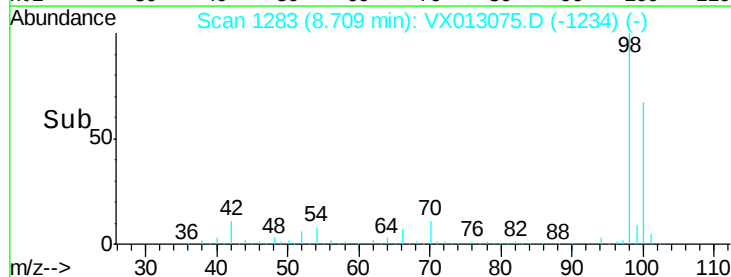
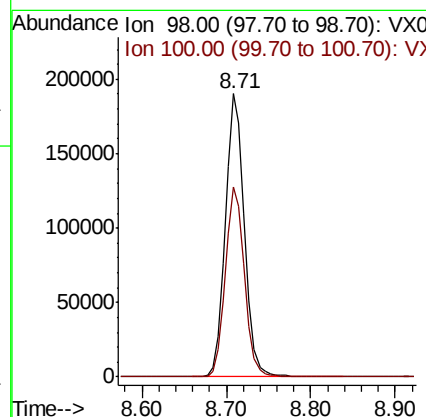
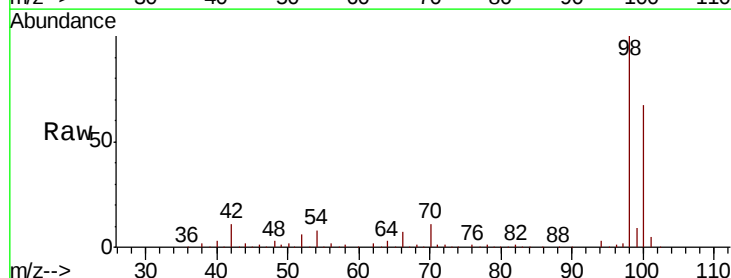
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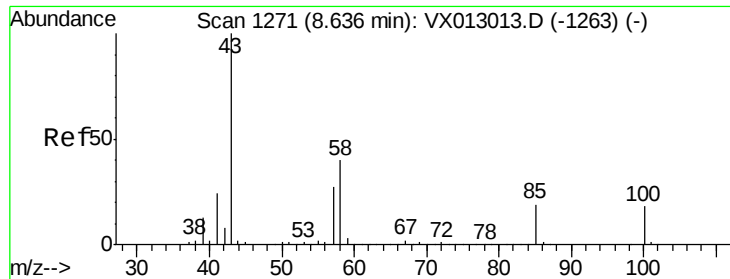
MMDadoda
10/16/2019 9:57:35 AM



#50
Toluene-d8
Concen: 48.843 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

Tgt Ion	Ratio	Lower	Upper
98	100		
100	67.4	53.4	80.2





#51

4-Methyl-2-Pentanone

Concen: 2.317 ug/l

RT: 8.64 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

Instrument :

MSVOA_X

ClientSampleId :

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

Tot Ion: 43 Resp: 6179

Ion Ratio Lower Upper

43 100

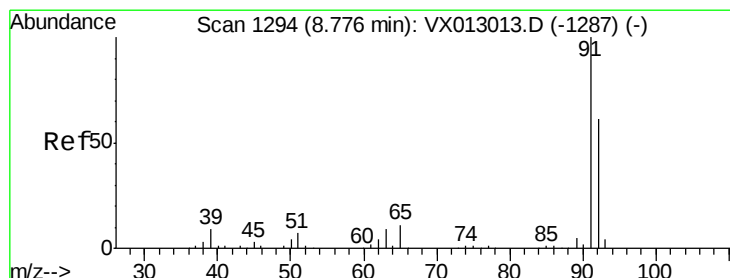
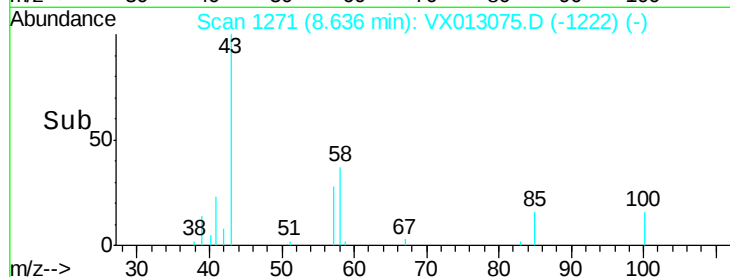
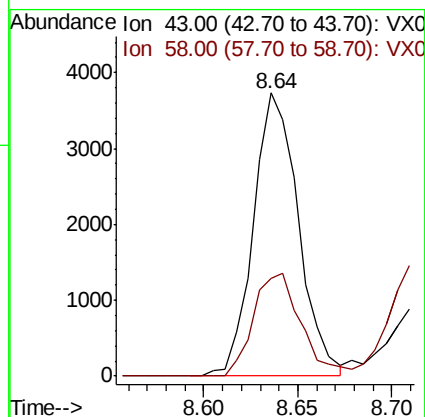
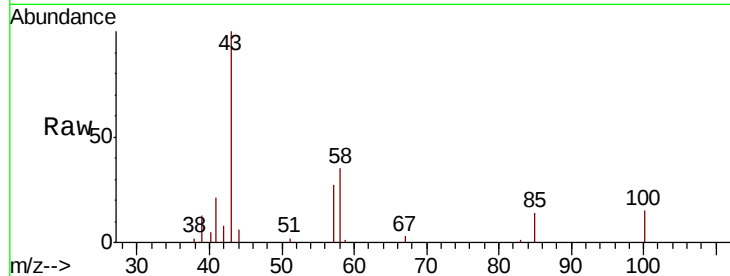
58 38.5 32.4 48.6

Manual Integrations

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#52

Toluene

Concen: 0.517 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. -0.00 min

Lab File: VX013075.D

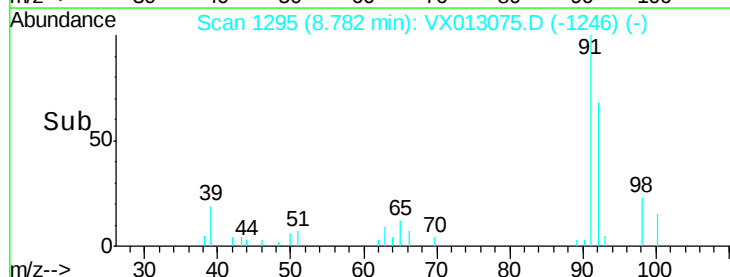
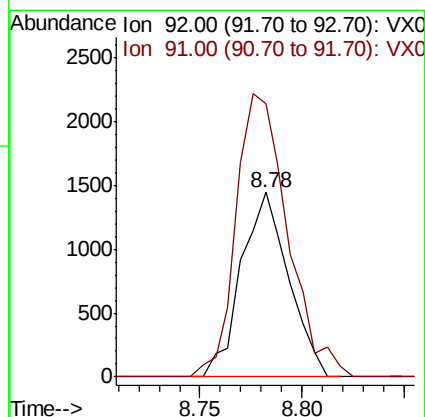
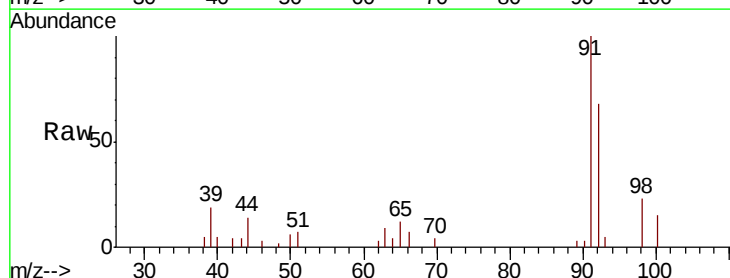
Acq: 15 Oct 2019 14:07

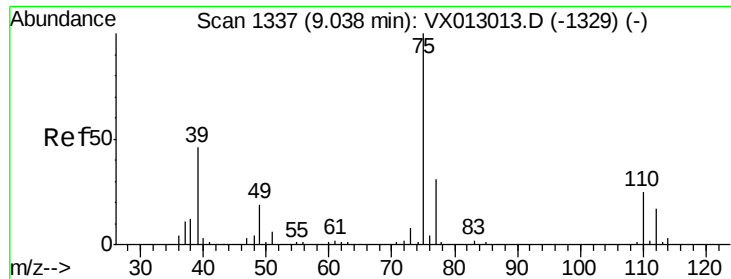
Tgt Ion: 92 Resp: 2329

Ion Ratio Lower Upper

92 100

91 166.7 135.9 203.9





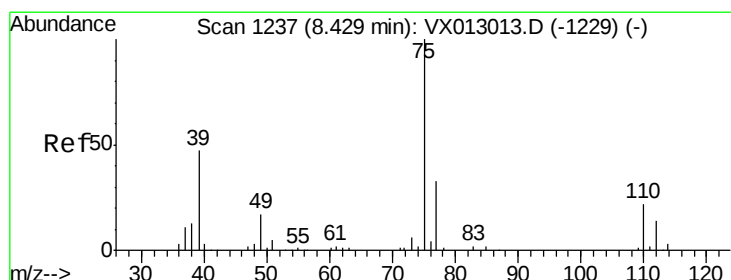
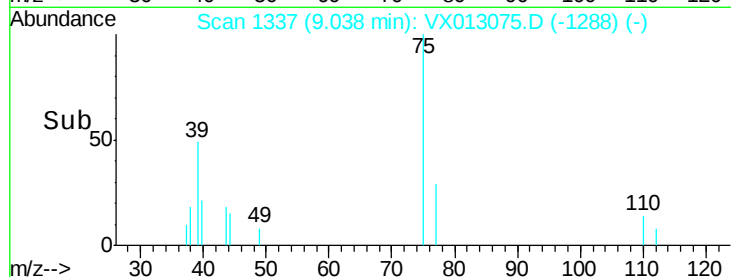
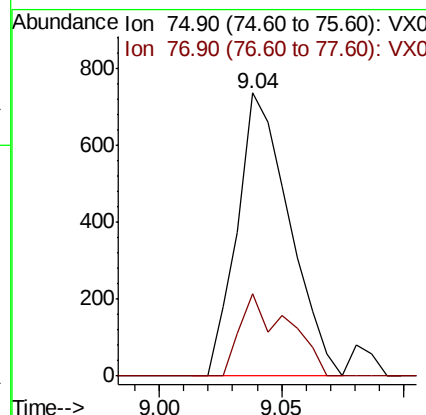
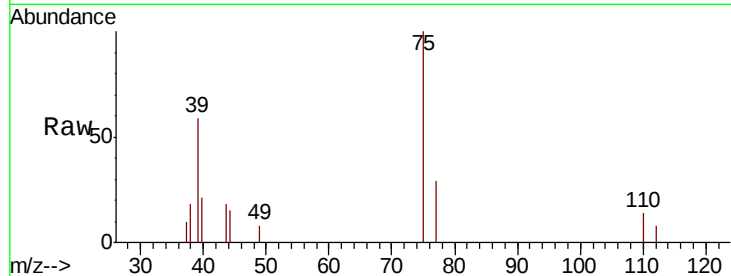
#53
t-1,3-Dichloropropene
Concen: 0.422 ug/l
RT: 9.04 min Scan# 1337
Delta R.T. 0.00 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

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

Tot Ion: 75 Resp: 1089
Ion Ratio Lower Upper
75 100
77 29.1 25.8 38.6

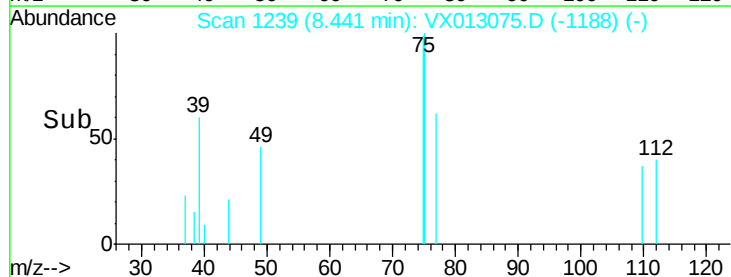
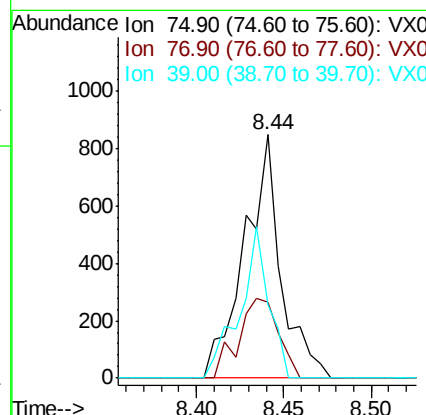
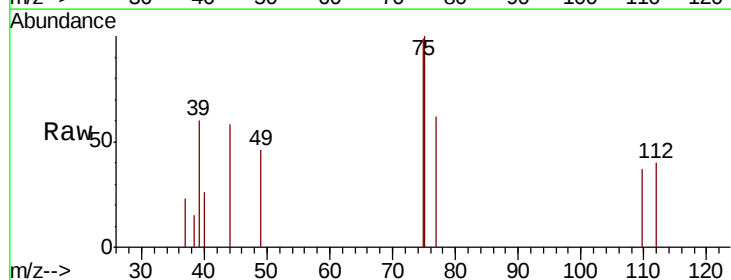
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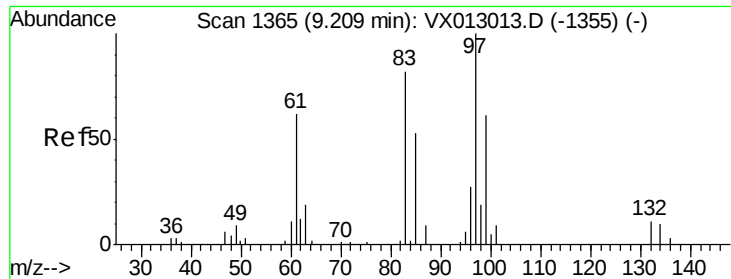
MMDadoda
10/16/2019 9:57:35 AM



#54
cis-1,3-Dichloropropene
Concen: 0.429 ug/l
RT: 8.44 min Scan# 1239
Delta R.T. 0.01 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

Tgt Ion: 75 Resp: 1232
Ion Ratio Lower Upper
75 100
77 31.3 25.8 38.8
39 30.1 38.2 57.2#





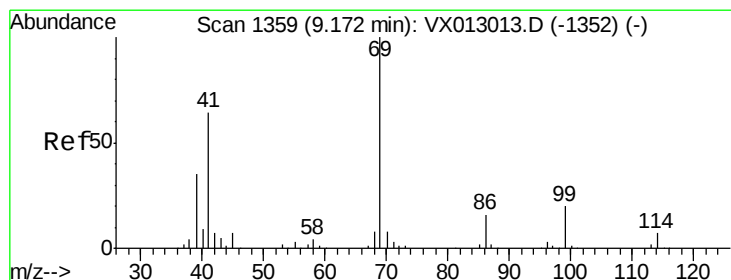
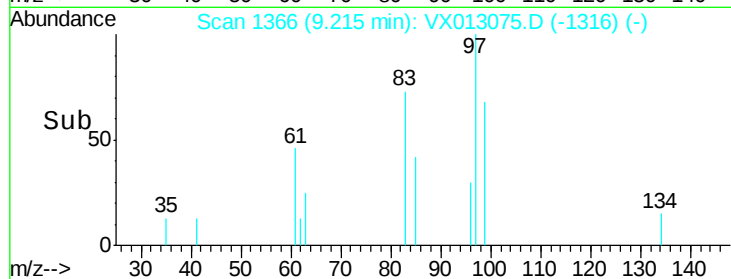
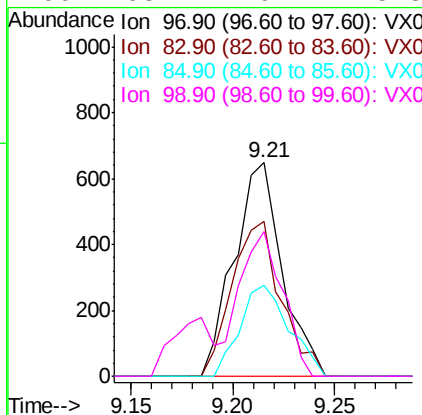
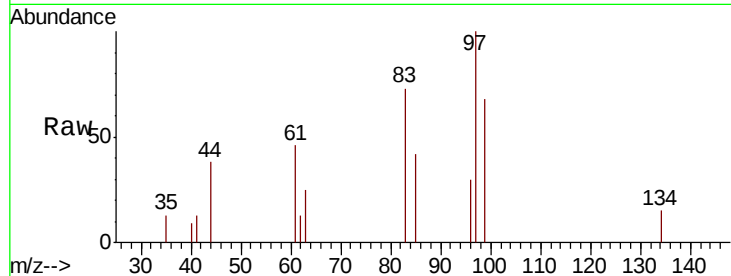
#55
 1,1,2-Trichloroethane
 Concen: 0.599 ug/l
 RT: 9.21 min Scan# 1366
 Delta R.T. 0.01 min
 Lab File: VX013075.D
 Acq: 15 Oct 2019 14:07

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

Tot Ion:	97	Resp:	1067
Ion	Ratio	Lower	Upper
97	100		
83	72.8	66.5	99.7
85	42.4	43.1	64.7#
99	68.1	49.2	73.8

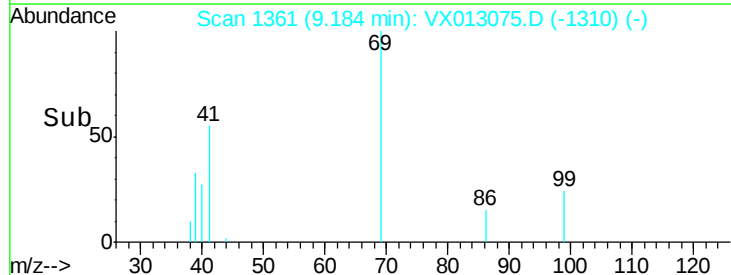
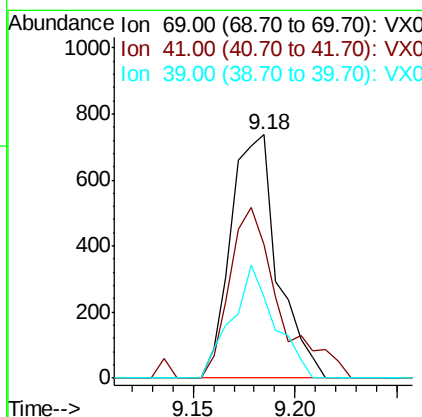
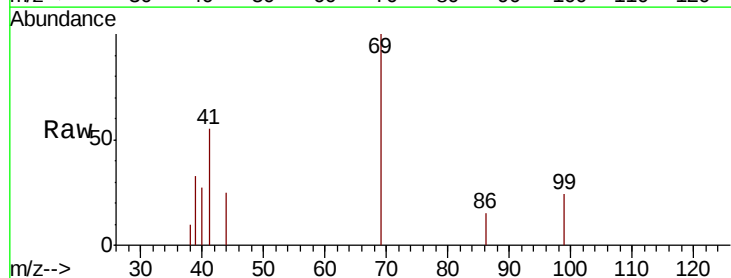
Manual Integrations
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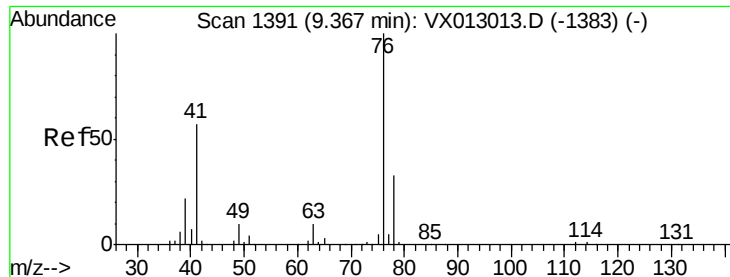
MMDadoda
 10/16/2019 9:57:35 AM



#56
 Ethyl methacrylate
 Concen: 0.406 ug/l
 RT: 9.18 min Scan# 1361
 Delta R.T. 0.01 min
 Lab File: VX013075.D
 Acq: 15 Oct 2019 14:07

Tgt Ion:	69	Resp:	1171
Ion	Ratio	Lower	Upper
69	100		
41	74.2	52.1	78.1
39	42.4	27.8	41.8#





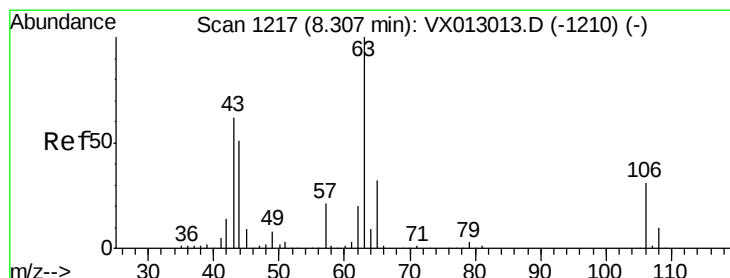
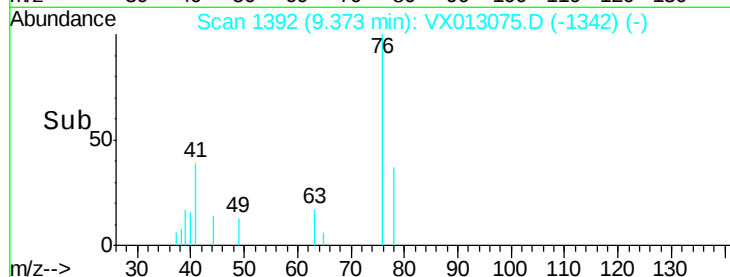
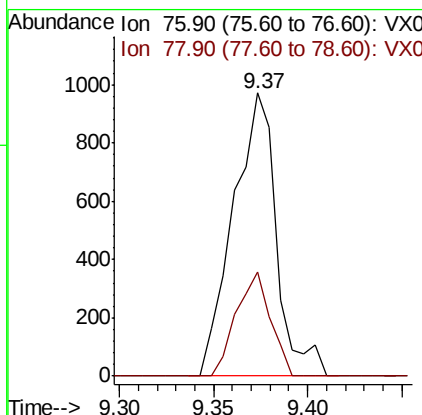
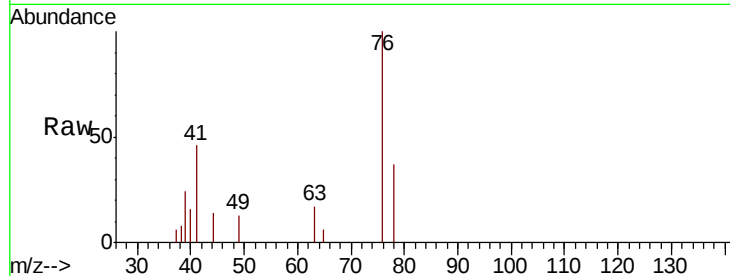
#57
 1,3-Dichloropropane
 Concen: 0.501 ug/l
 RT: 9.37 min Scan# 1392
 Delta R.T. 0.01 min
 Lab File: VX013075.D
 Acq: 15 Oct 2019 14:07

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

Tot Ion: 76 Resp: 1544
 Ion Ratio Lower Upper
 76 100
 78 29.1 26.1 39.1

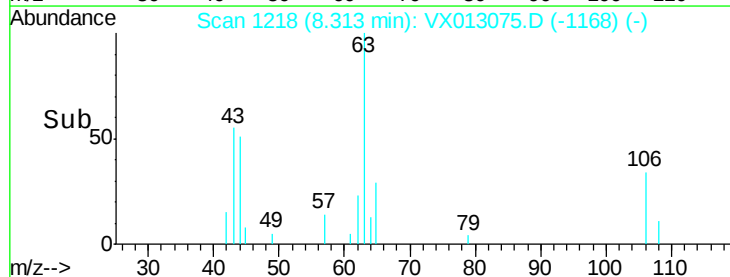
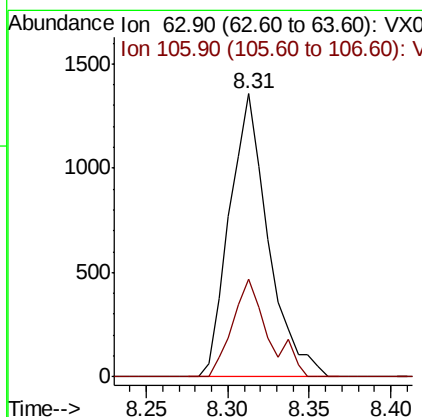
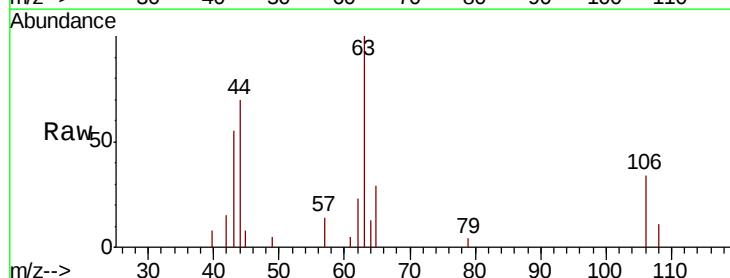
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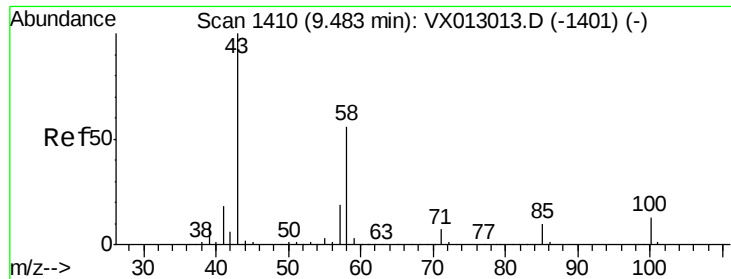
MMDadoda
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#58
 2-Chloroethyl Vinyl ether
 Concen: 1.717 ug/l
 RT: 8.31 min Scan# 1218
 Delta R.T. 0.01 min
 Lab File: VX013075.D
 Acq: 15 Oct 2019 14:07

Tgt Ion: 63 Resp: 2248
 Ion Ratio Lower Upper
 63 100
 106 31.6 23.8 35.8





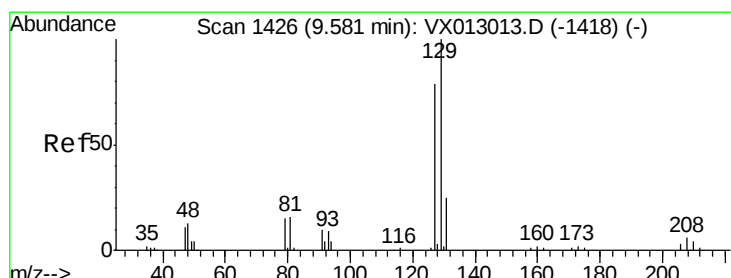
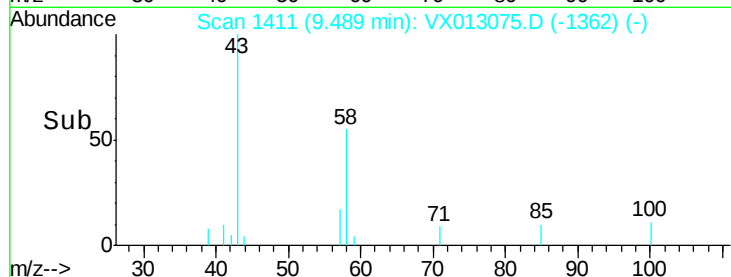
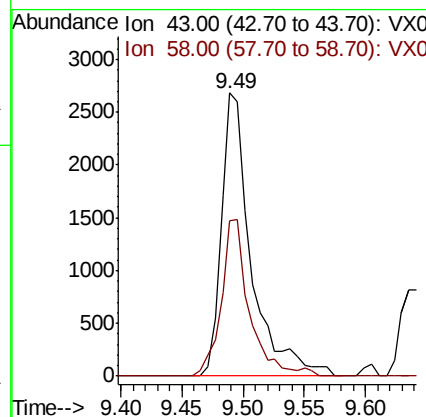
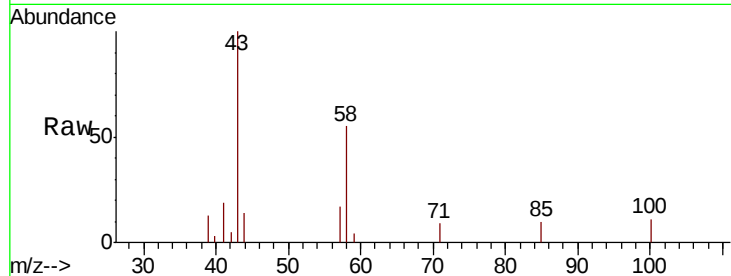
#59
2-Hexanone
Concen: 2.192 ug/l
RT: 9.49 min Scan# 1411
Delta R.T. -0.00 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

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

Tot Ion: 43 Resp: 4552
Ion Ratio Lower Upper
43 100
58 52.7 28.1 84.3

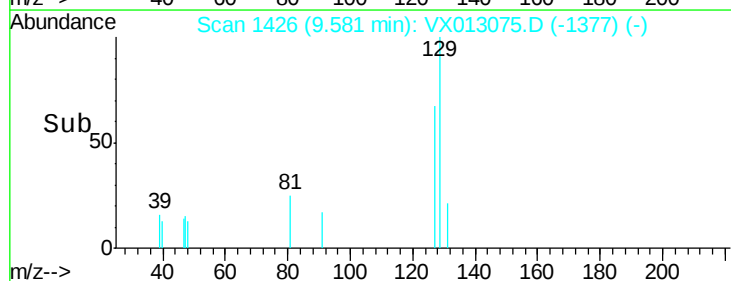
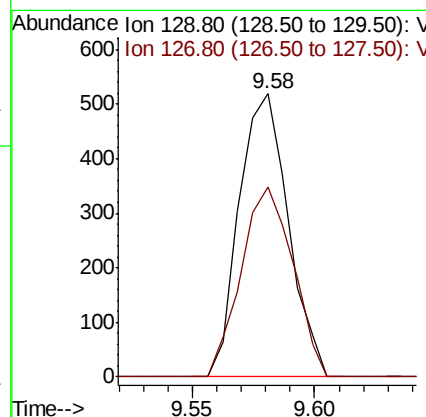
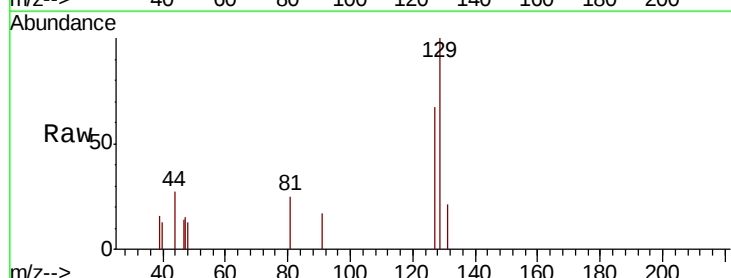
Manual Integrations
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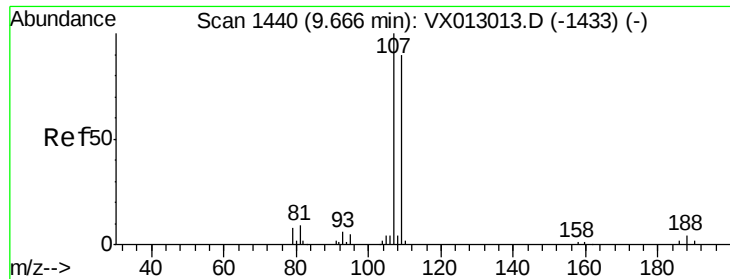
MMDadoda
10/16/2019 9:57:35 AM



#60
Dibromochloromethane
Concen: 0.413 ug/l
RT: 9.58 min Scan# 1426
Delta R.T. 0.00 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

Tgt Ion: 129 Resp: 722
Ion Ratio Lower Upper
129 100
127 70.9 38.9 116.7





#61

1,2-Dibromoethane

Concen: 0.451 ug/l

RT: 9.67 min Scan# 1441

Delta R.T. 0.01 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

Instrument :

MSVOA_X

ClientSampleId :

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

Tot Ion: 107 Resp: 846

Ion Ratio Lower Upper

107 100

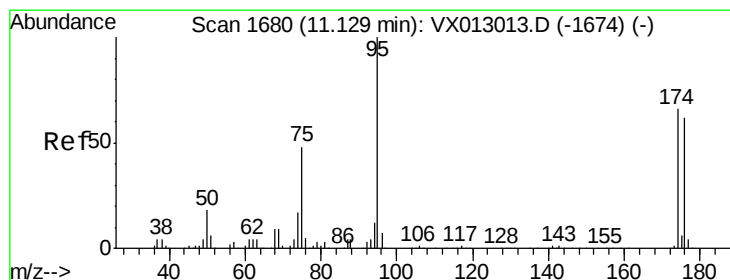
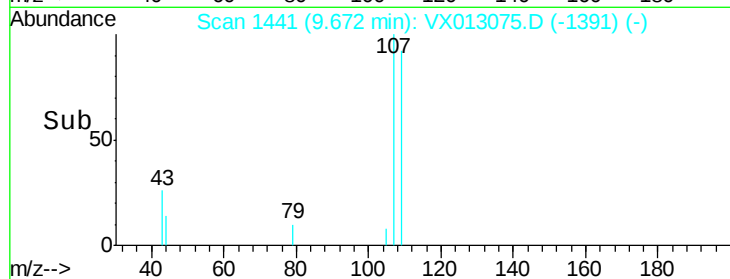
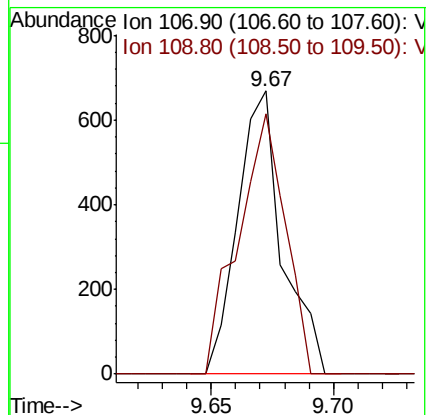
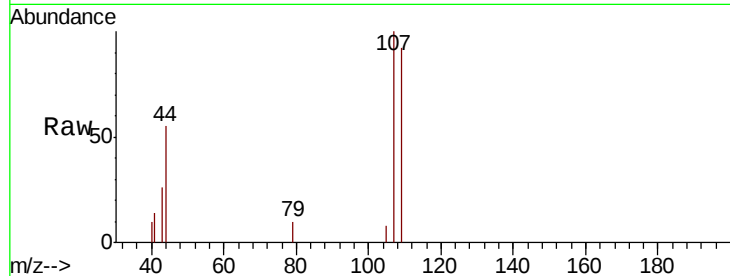
109 97.0 75.8 113.6

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#62

4-Bromofluorobenzene

Concen: 45.499 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

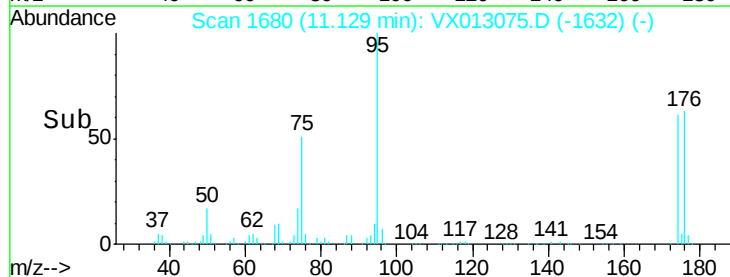
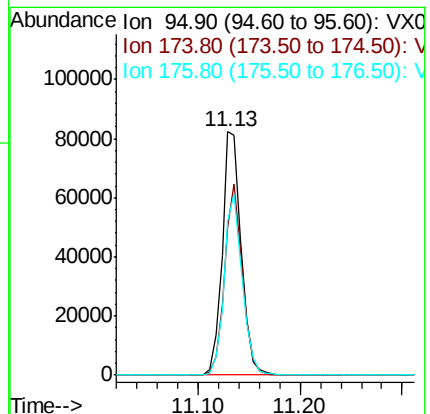
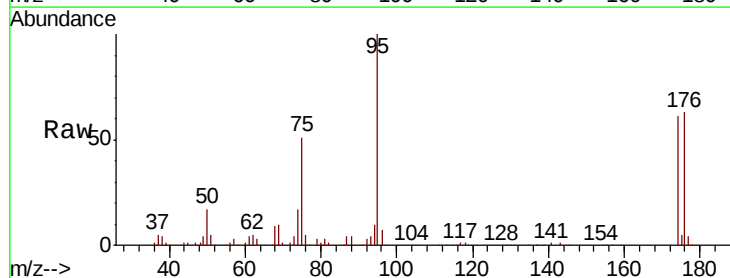
Tgt Ion: 95 Resp: 107297

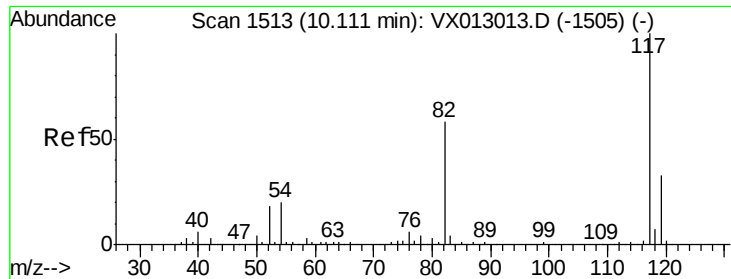
Ion Ratio Lower Upper

95 100

174 73.3 0.0 143.4

176 70.7 0.0 136.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

Instrument :

MSVOA_X

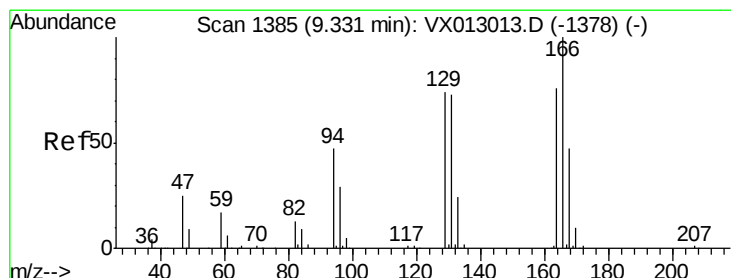
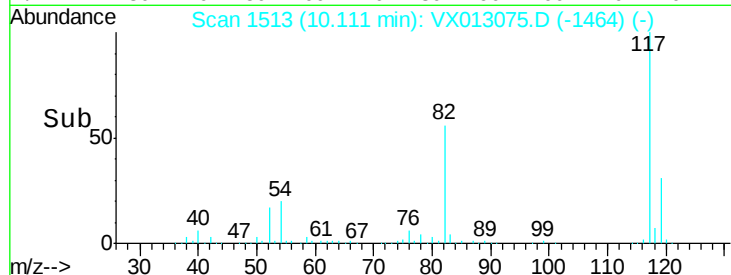
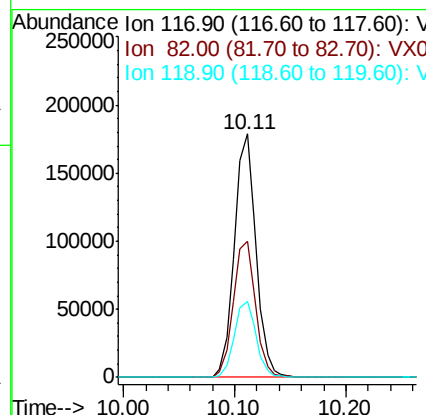
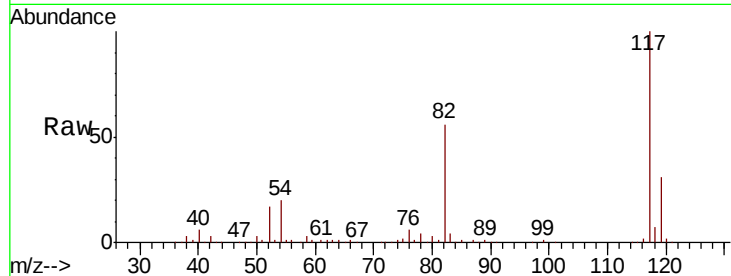
ClientSampleId :

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

Tot Ion:	117	Resp:	239935
Ion Ratio	Lower	Upper	
117	100		
82	55.9	44.1	66.1
119	31.3	25.8	38.8

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#64

Tetrachloroethene

Concen: 0.506 ug/l

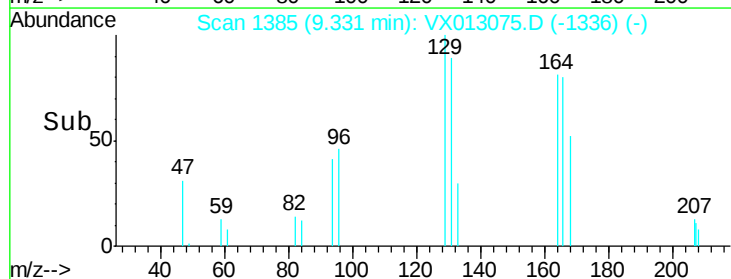
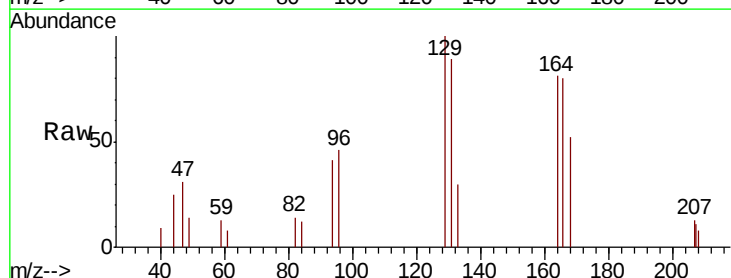
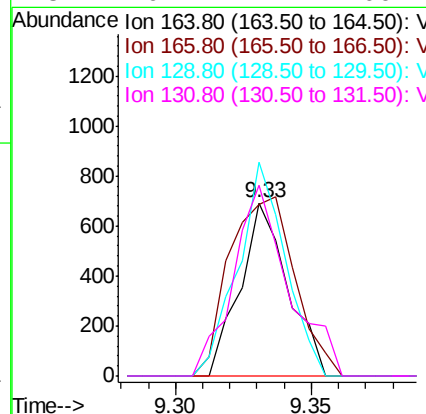
RT: 9.33 min Scan# 1385

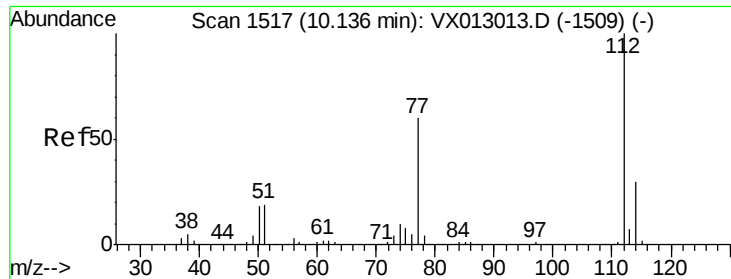
Delta R.T. -0.00 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

Tgt Ion:	164	Resp:	842
Ion Ratio	Lower	Upper	
164	100		
166	99.1	96.9	145.3
129	123.6	77.9	116.9#
131	110.4	72.7	109.1#





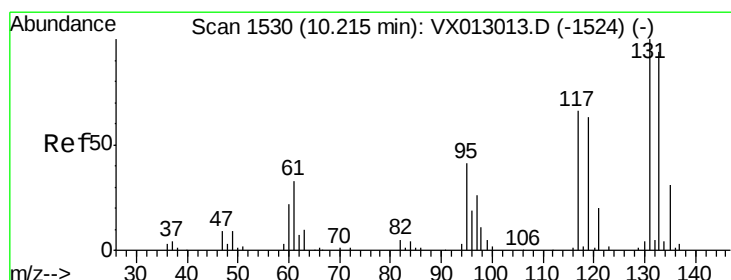
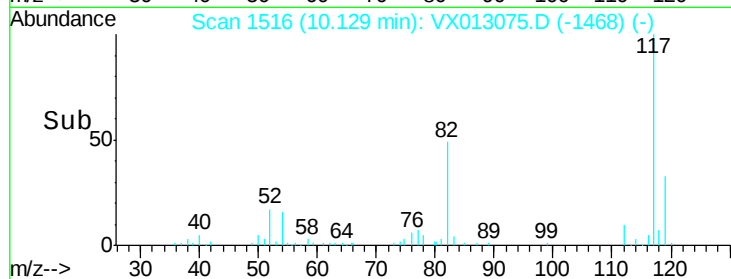
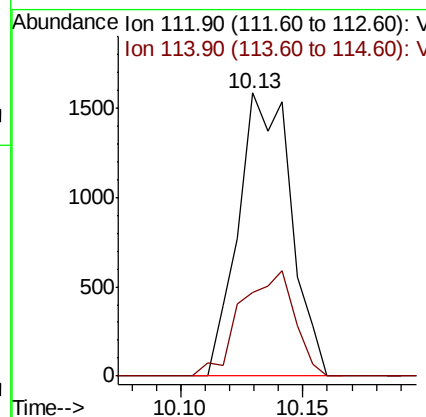
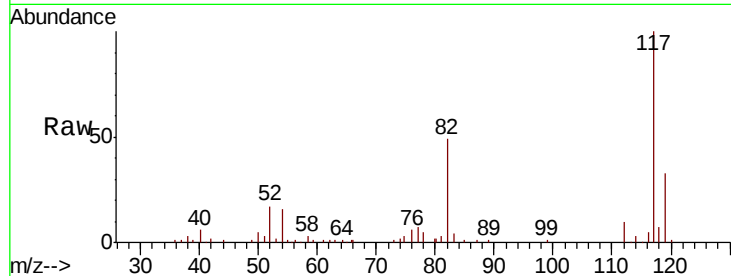
#65
Chlorobenzene
Concen: 0.499 ug/l
RT: 10.13 min Scan# 1516
Delta R.T. -0.01 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

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

Tot Ion:112 Resp: 2377
Ion Ratio Lower Upper
112 100
114 29.4 25.7 38.5

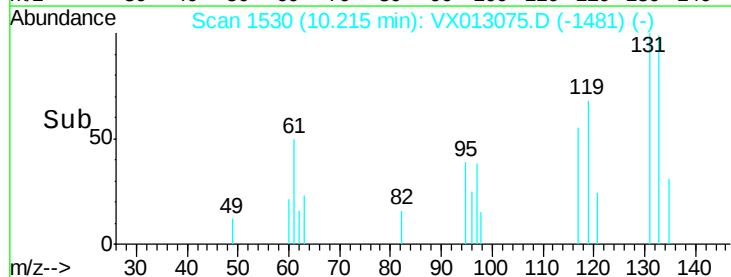
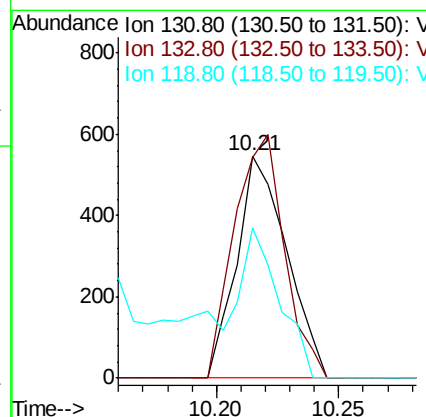
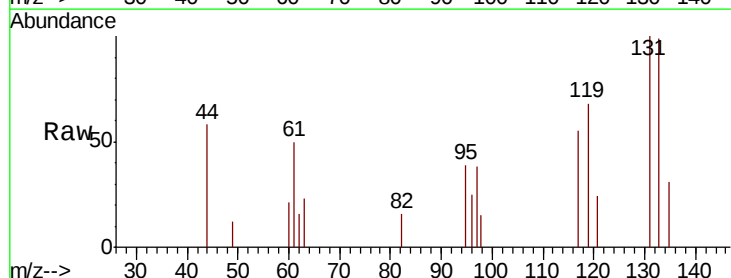
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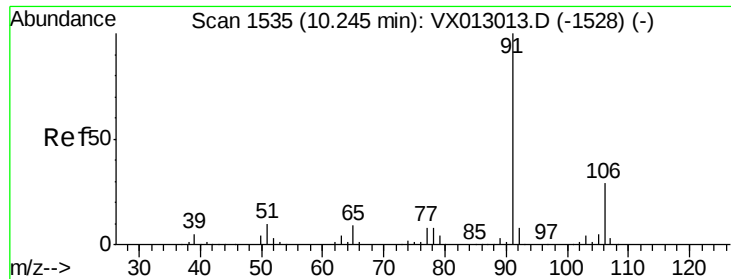
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#66
1,1,1,2-Tetrachloroethane
Concen: 0.470 ug/l
RT: 10.21 min Scan# 1530
Delta R.T. -0.00 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

Tgt Ion:131 Resp: 777
Ion Ratio Lower Upper
131 100
133 109.7 47.2 141.6
119 0.0 32.6 98.0#





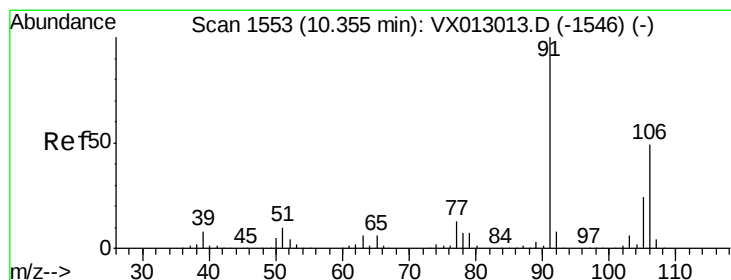
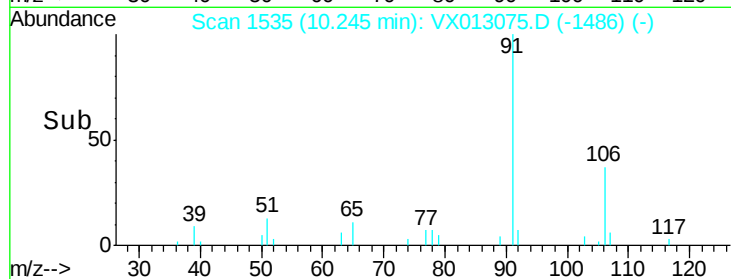
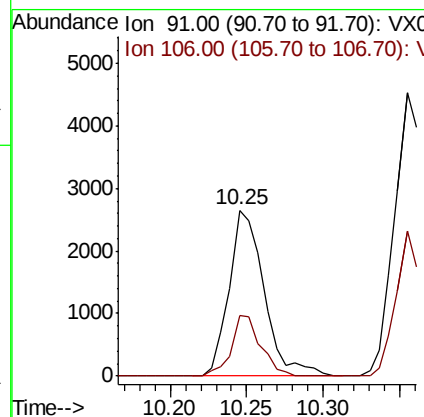
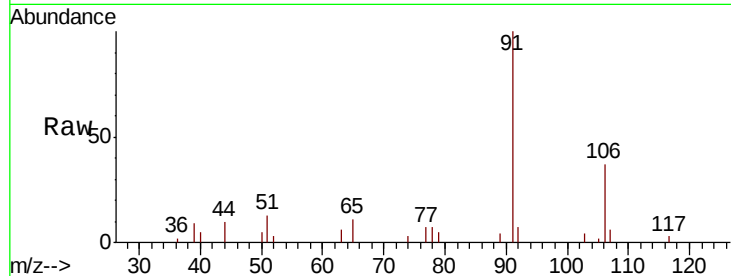
#67
Ethyl Benzene
Concen: 0.497 ug/l
RT: 10.25 min Scan# 1535
Delta R.T. -0.00 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

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

Tot Ion: 91 Resp: 4209
Ion Ratio Lower Upper
91 100
106 36.6 23.9 35.9#

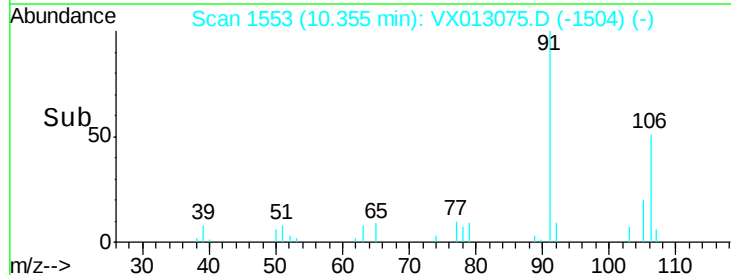
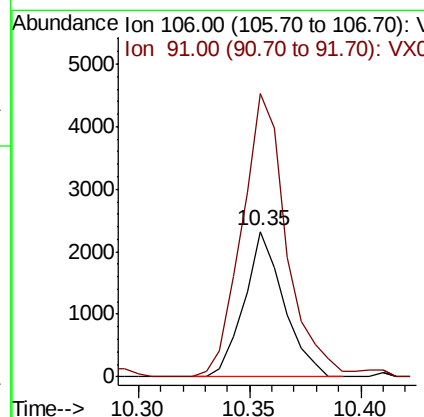
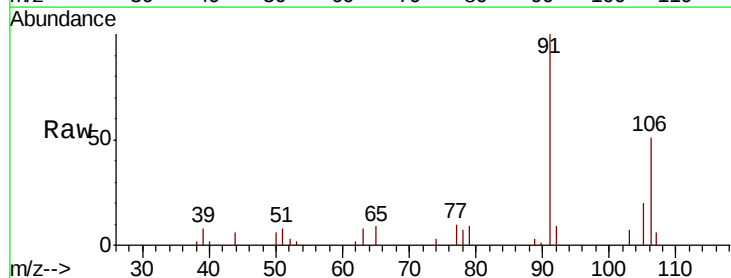
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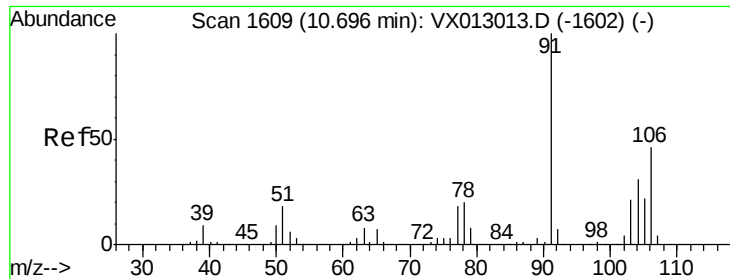
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#68
m/p-Xylenes
Concen: 0.910 ug/l
RT: 10.35 min Scan# 1553
Delta R.T. -0.00 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

Tgt Ion: 106 Resp: 2878
Ion Ratio Lower Upper
106 100
91 223.3 165.3 247.9





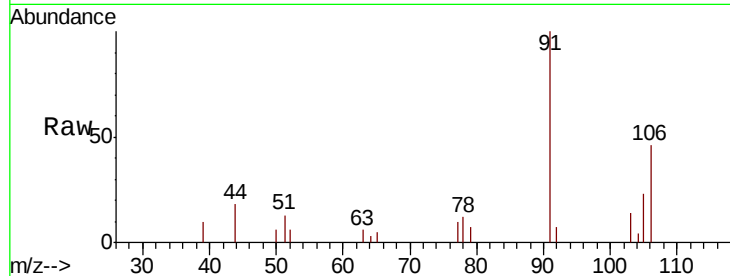
#69
o-Xylene
Concen: 0.472 ug/l
RT: 10.69 min Scan# 1608
Delta R.T. -0.01 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

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

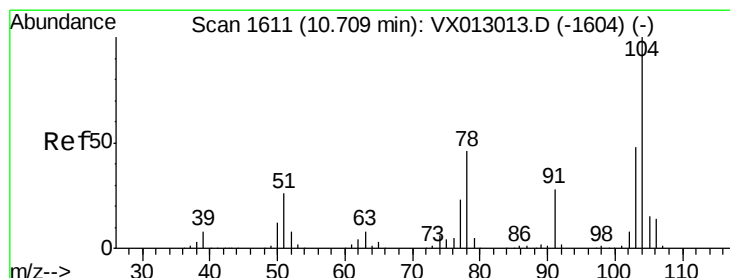
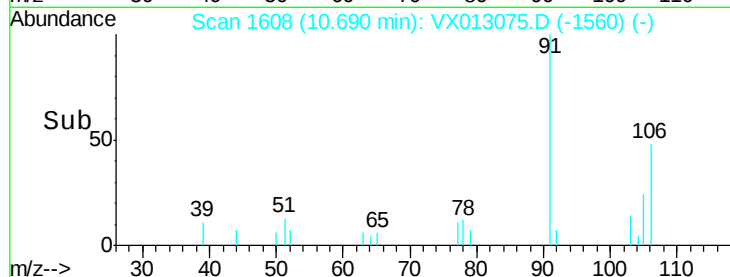
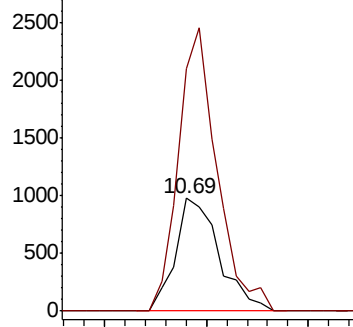
Tot Ion:106 Resp: 1455
Ion Ratio Lower Upper
106 100
91 220.8 109.1 327.3

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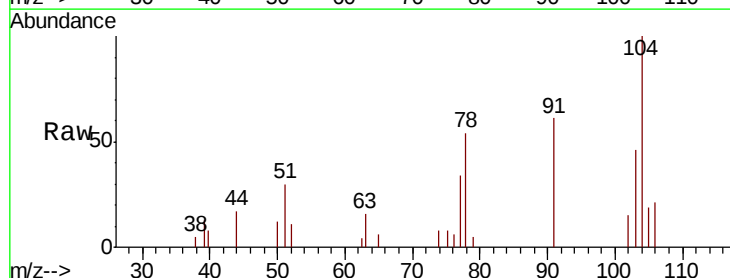


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

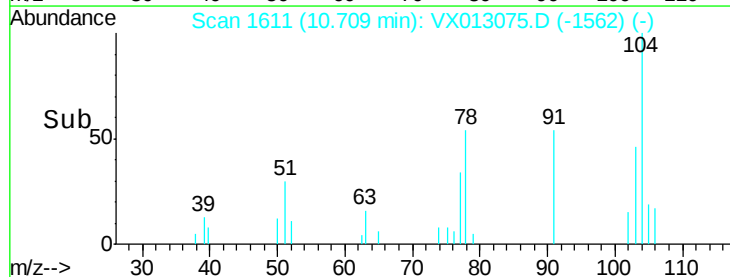
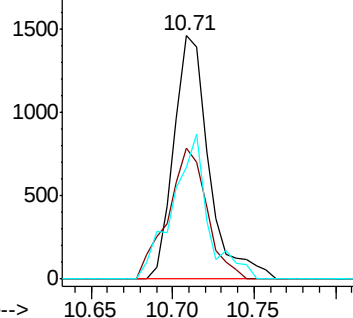


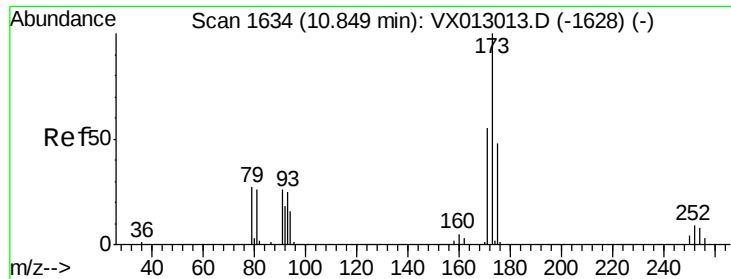
#70
Styrene
Concen: 0.418 ug/l
RT: 10.71 min Scan# 1611
Delta R.T. -0.00 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

Tgt Ion:104 Resp: 2192
Ion Ratio Lower Upper
104 100
78 59.7 41.2 61.8
103 59.8 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





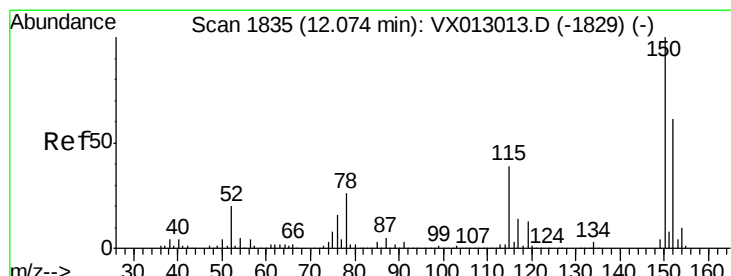
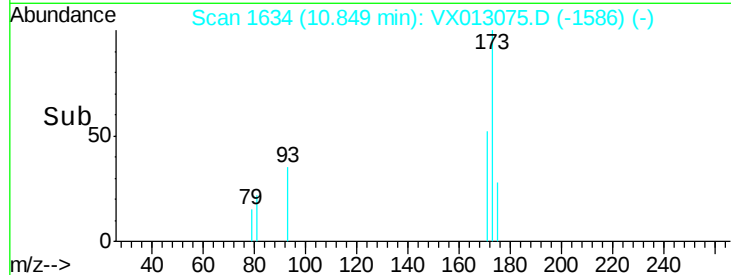
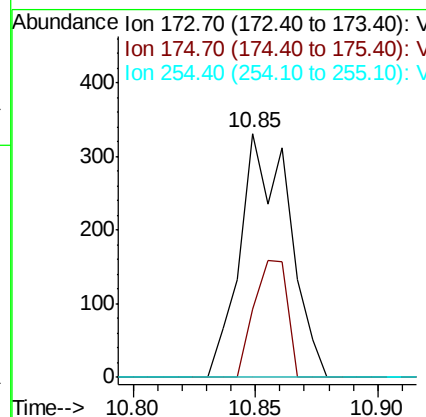
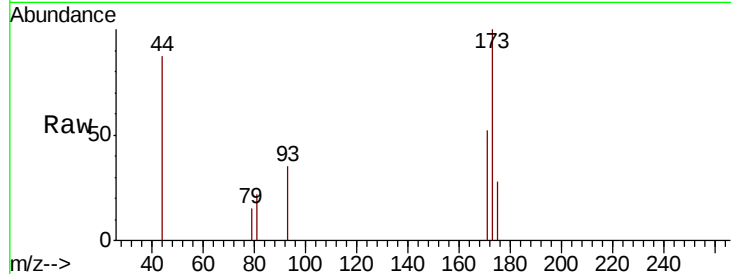
#71
Bromoform
Concen: 0.387 ug/l
RT: 10.85 min Scan# 1634
Delta R.T. -0.01 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

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

Tot Ion	Ratio	Lower	Upper
173	100		
175	32.3	24.1	72.3
254	0.0	0.1	0.1#

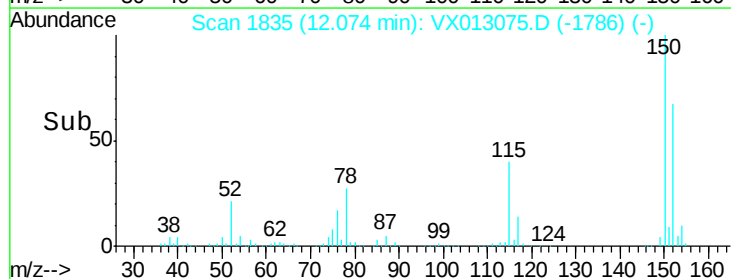
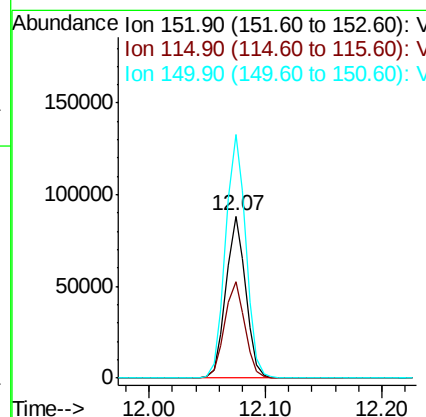
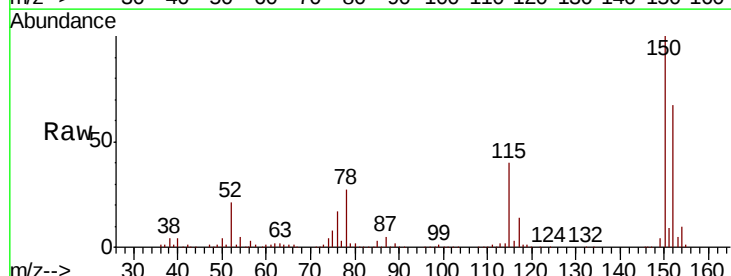
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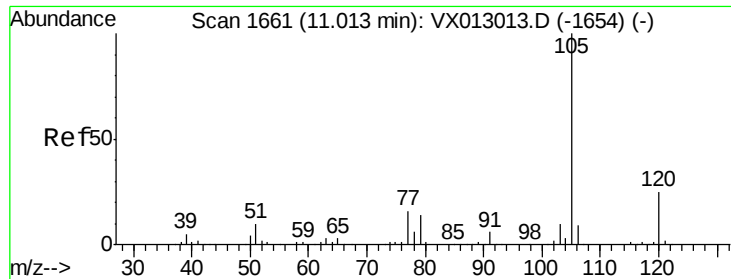
MMDadoda
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

Tgt Ion	Ratio	Lower	Upper
152	100		
115	61.0	44.5	133.5
150	154.0	0.0	353.4





#73

Isopropylbenzene

Concen: 0.508 ug/l

RT: 11.02 min Scan# 1662

Delta R.T. 0.01 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

Instrument :

MSVOA_X

ClientSampleId :

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

Tot Ion: 105 Resp: 3858

Ion Ratio Lower Upper

105 100

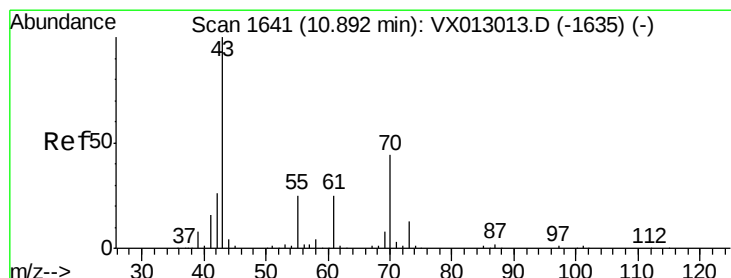
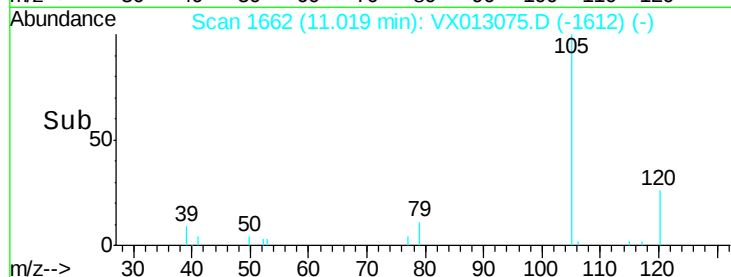
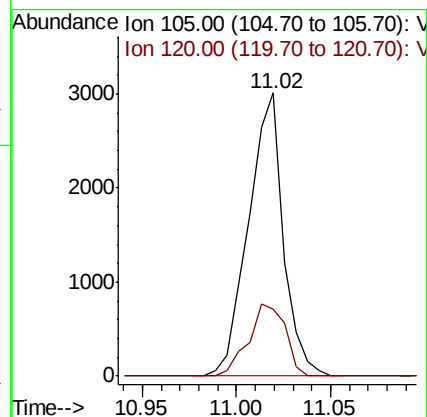
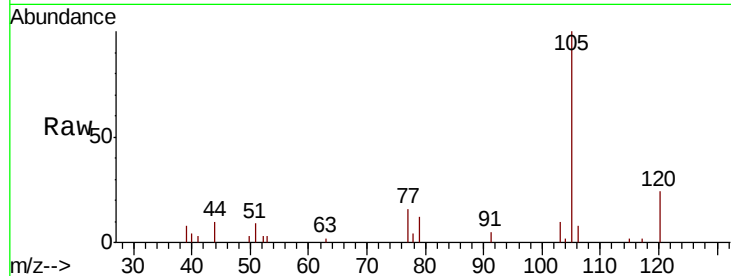
120 26.8 13.0 39.0

Manual Integrations

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#74

N-ethyl acetate

Concen: 0.459 ug/l

RT: 10.90 min Scan# 1642

Delta R.T. 0.01 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

Tgt Ion: 43 Resp: 1502

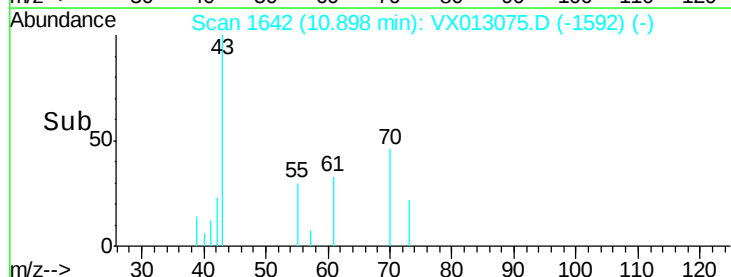
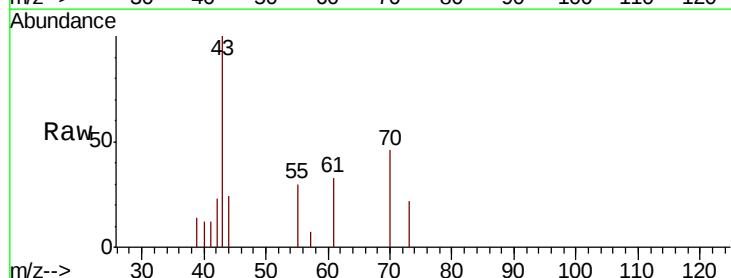
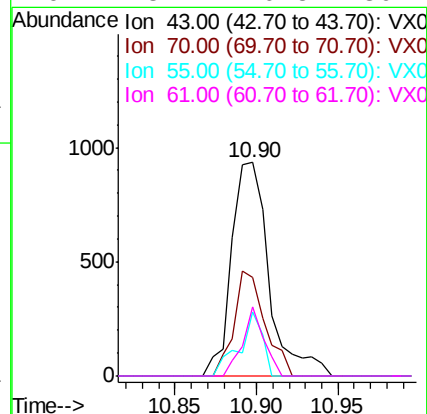
Ion Ratio Lower Upper

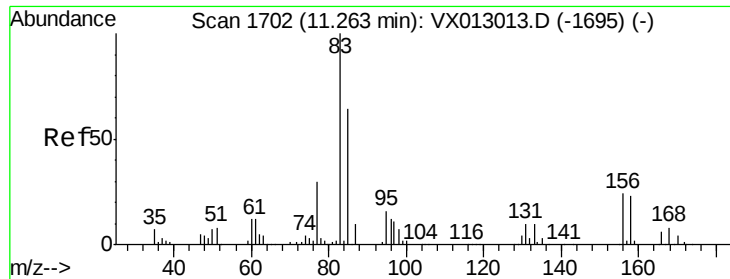
43 100

70 40.1 36.4 54.6

55 18.5 20.2 30.2#

61 18.4 20.5 30.7#





#75

1,1,2,2-Tetrachloroethane

Concen: 0.490 ug/l

RT: 11.27 min Scan# 1703

Delta R.T. 0.01 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

Instrument :

MSVOA_X

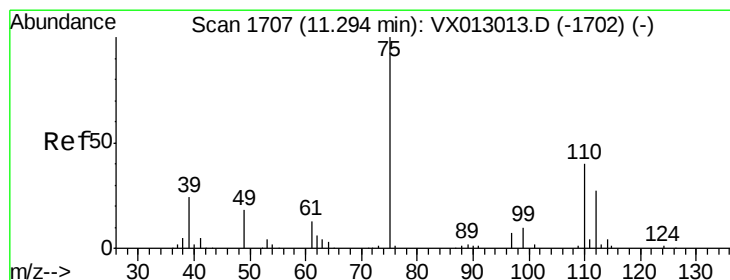
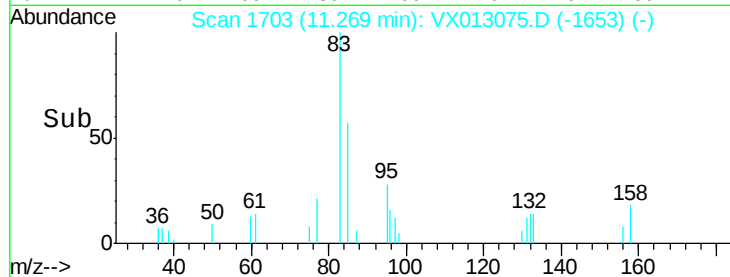
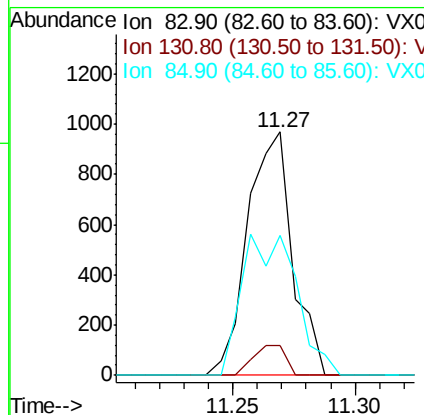
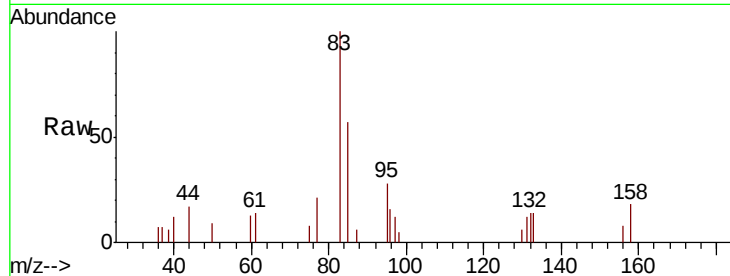
ClientSampleId :

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

Tot Ion:	83	Resp:	1238
Ion Ratio	Lower	Upper	
83	100		
131	8.8	5.1	15.3
85	70.4	32.1	96.5

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 0.552 ug/l m

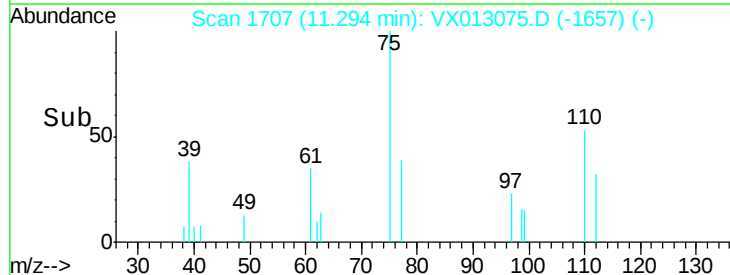
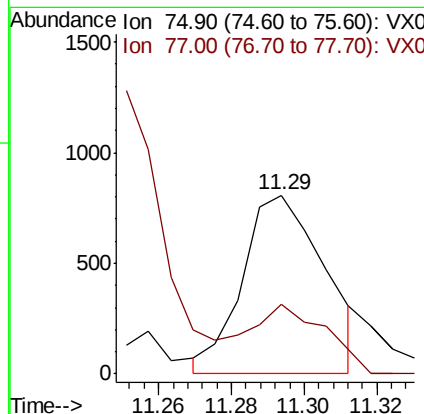
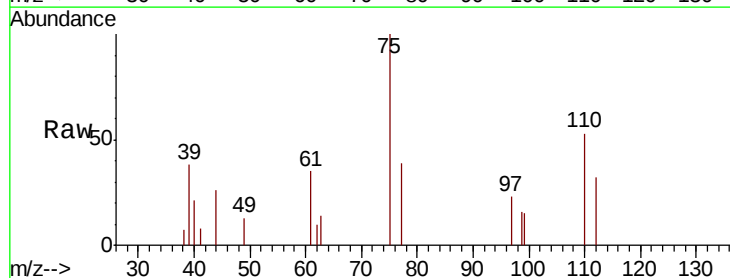
RT: 11.29 min Scan# 1707

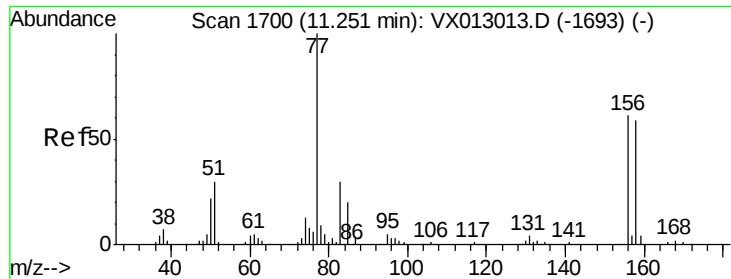
Delta R.T. 0.01 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

Tgt Ion:	75	Resp:	1265
Ion Ratio	Lower	Upper	
75	100		
77	55.9	22.9	68.8





#77

Bromobenzene

Concen: 0.533 ug/l

RT: 11.25 min Scan# 1700

Delta R.T. -0.00 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

Instrument :

MSVOA_X

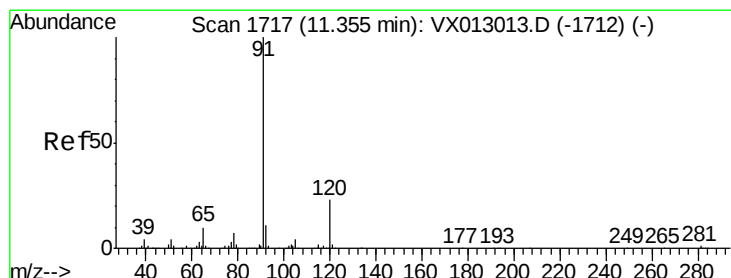
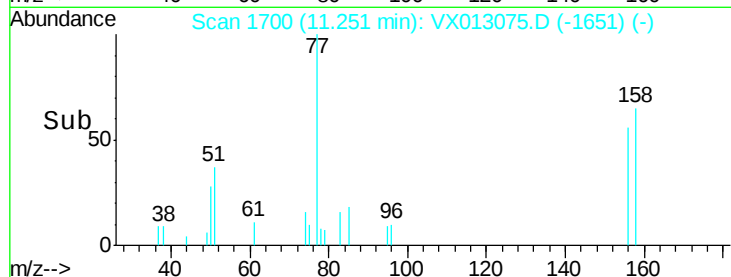
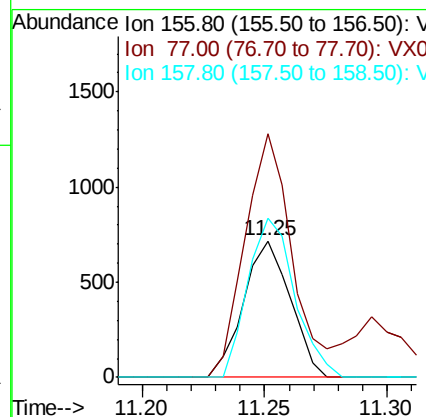
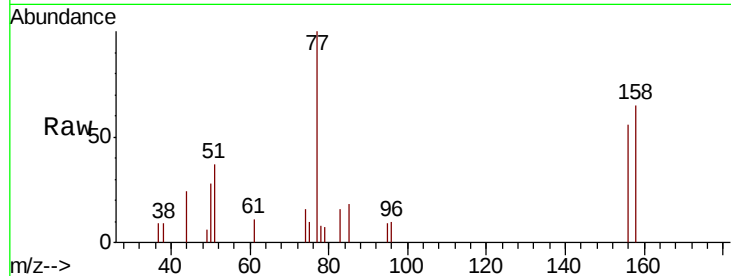
ClientSampleId :

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

Tot Ion	Ratio	Lower	Upper
156	100		
77	178.5	83.7	251.0
158	116.5	48.6	145.9

Manual Integrations
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#78

n-propylbenzene

Concen: 0.493 ug/l

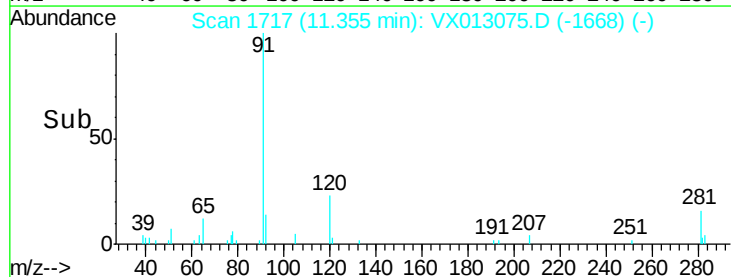
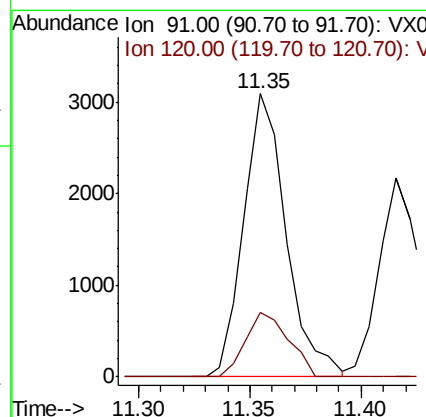
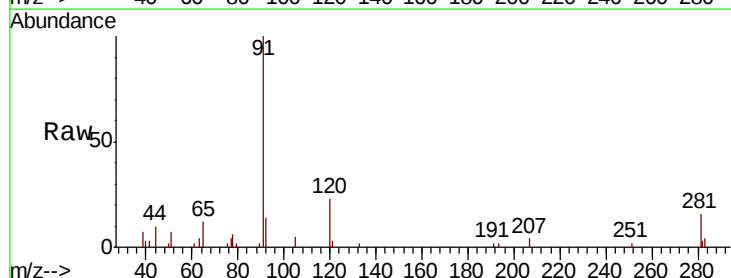
RT: 11.35 min Scan# 1717

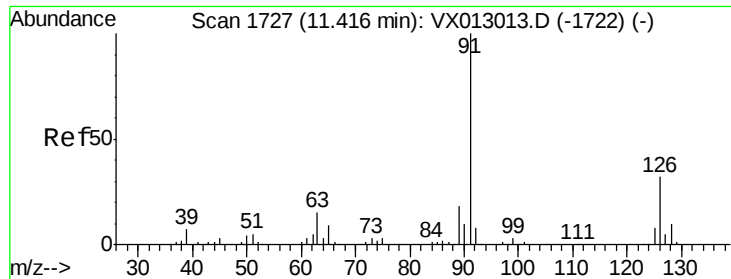
Delta R.T. -0.00 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.0	11.7	35.1





#79

2-Chlorotoluene

Concen: 0.526 ug/l

RT: 11.42 min Scan# 1727

Delta R.T. -0.00 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

Instrument :

MSVOA_X

ClientSampleId :

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

Tot Ion: 91 Resp: 2766

Ion Ratio Lower Upper

91 100

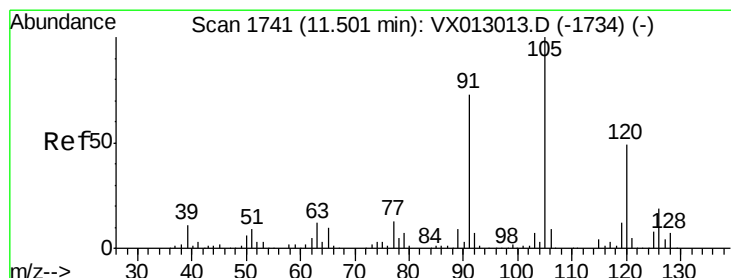
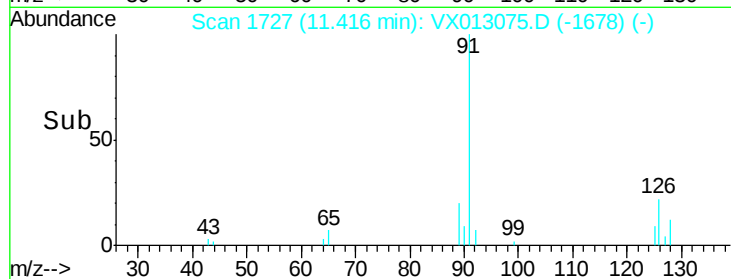
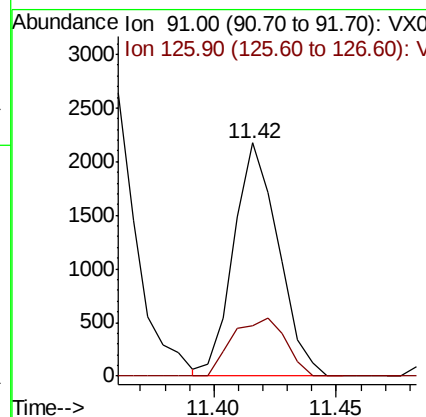
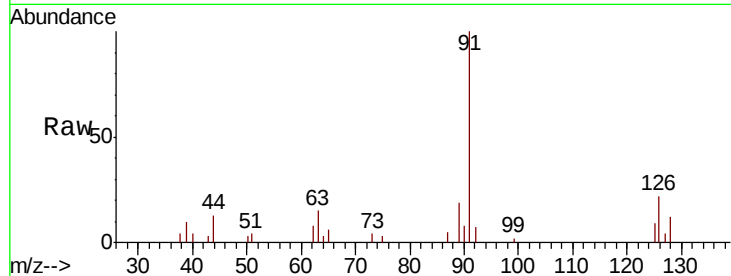
126 29.3 16.3 48.8

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 0.516 ug/l

RT: 11.50 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VX013075.D

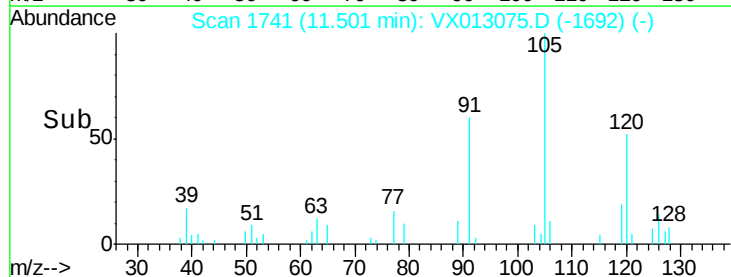
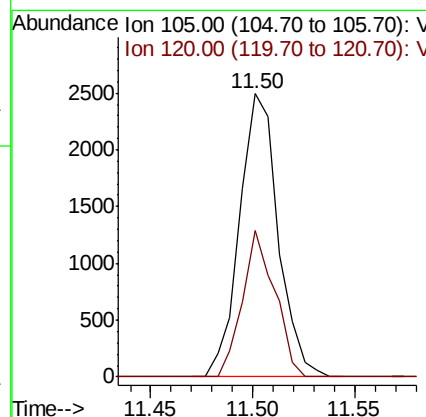
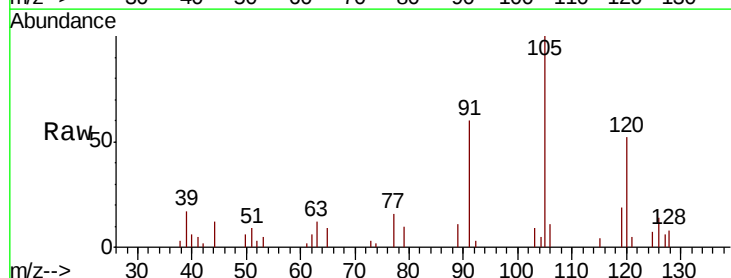
Acq: 15 Oct 2019 14:07

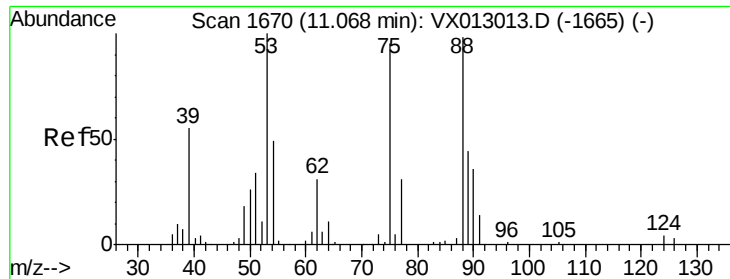
Tgt Ion: 105 Resp: 3272

Ion Ratio Lower Upper

105 100

120 43.2 24.8 74.3





#81

trans-1,4-Dichloro-2-butene

Concen: 0.313 ug/l m

RT: 11.07 min Scan# 1670

Delta R.T. 0.00 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

Instrument :

MSVOA_X

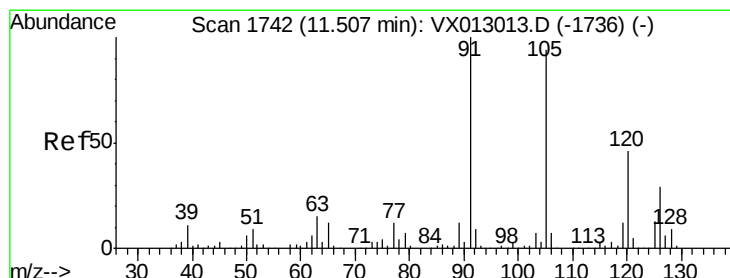
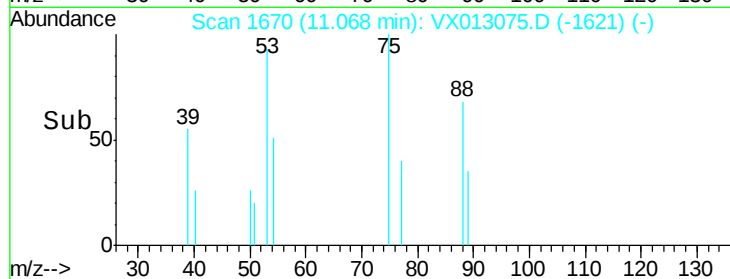
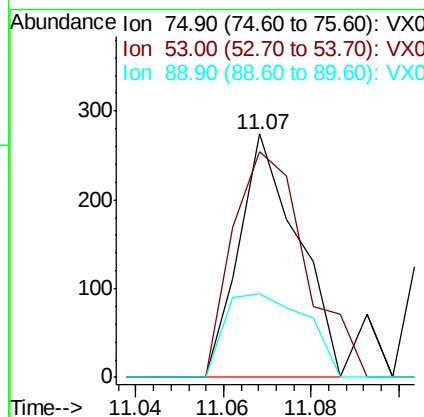
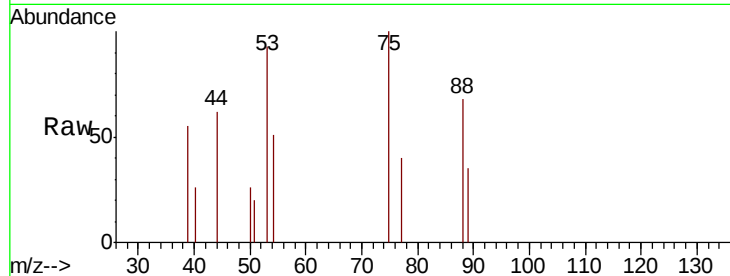
ClientSampleId :

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

Tot Ion:	75	Resp:	254
Ion	Ratio	Lower	Upper
75	100		
53	0.0	78.5	117.7#
89	0.0	37.4	56.2#

Manual Integrations
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#82

4-Chlorotoluene

Concen: 0.510 ug/l

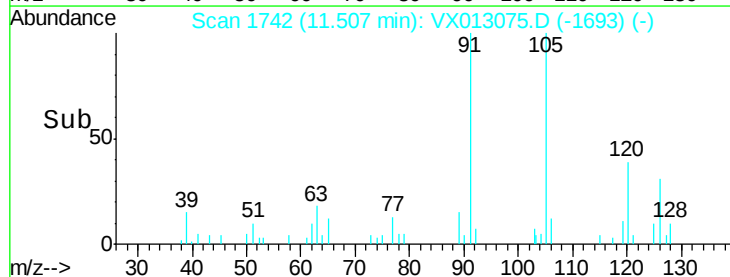
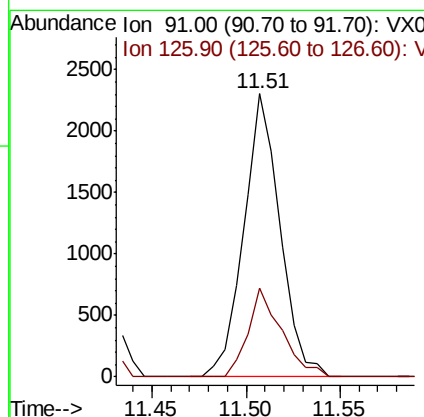
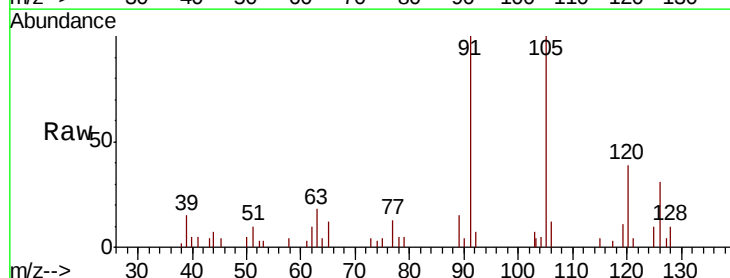
RT: 11.51 min Scan# 1742

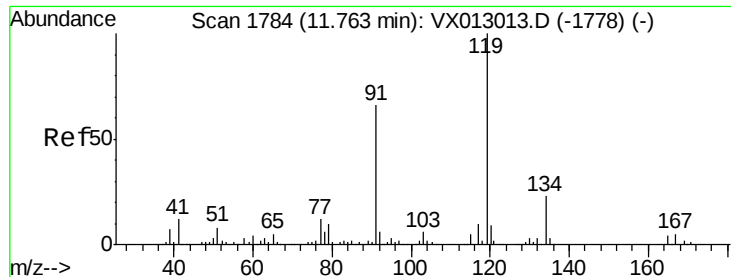
Delta R.T. -0.00 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

Tgt Ion:	91	Resp:	3070
Ion	Ratio	Lower	Upper
91	100		
126	28.9	14.2	42.6





#83

tert-Butylbenzene

Concen: 0.496 ug/l

RT: 11.77 min Scan# 1785

Delta R.T. 0.01 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

Instrument :

MSVOA_X

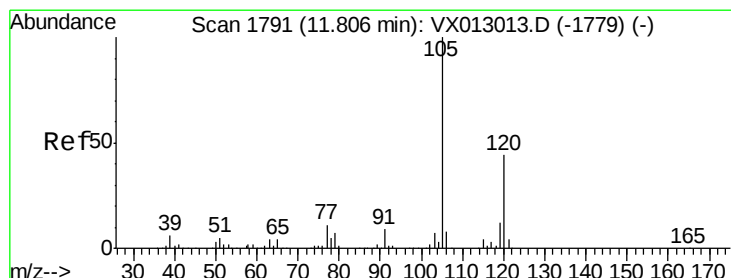
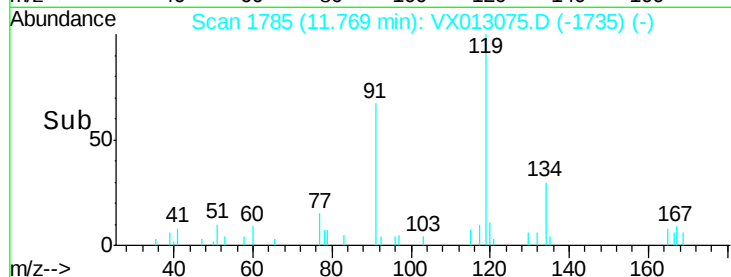
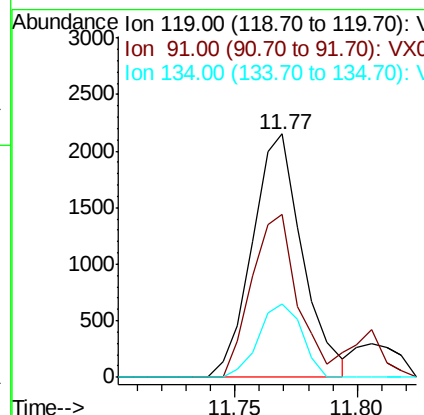
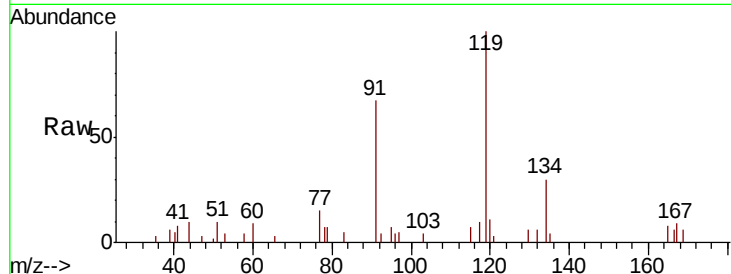
ClientSampleId :

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

Tot Ion:	119	Resp:	3073
Ion Ratio	Lower	Upper	
119	100		
91	61.1	29.3	87.9
134	26.1	11.5	34.4

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 0.460 ug/l

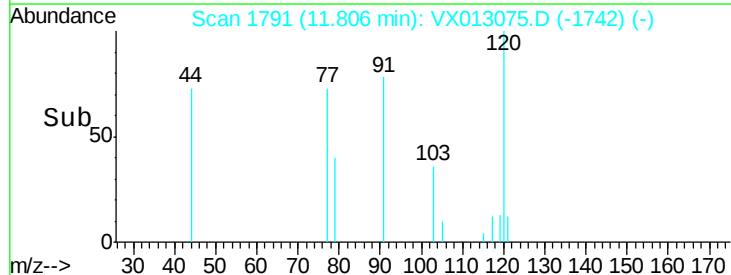
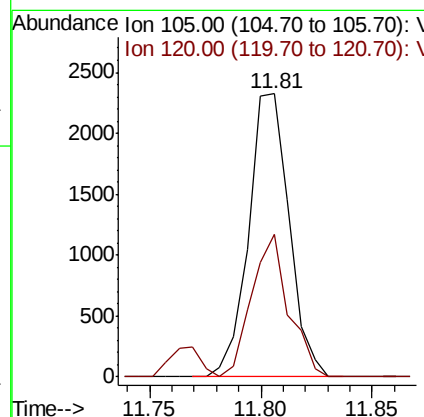
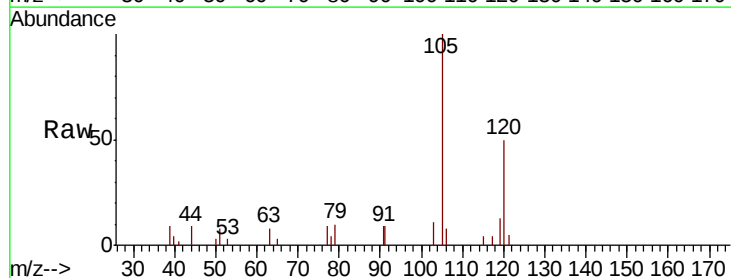
RT: 11.81 min Scan# 1791

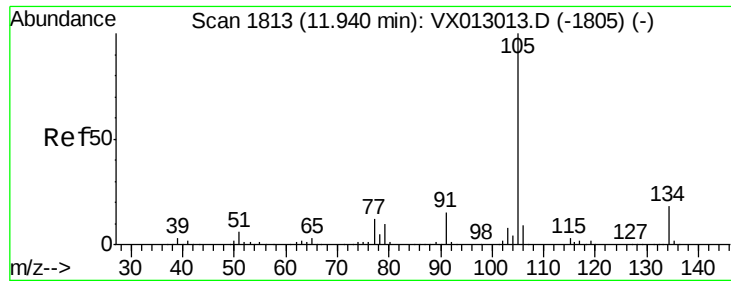
Delta R.T. -0.00 min

Lab File: VX013075.D

Acq: 15 Oct 2019 14:07

Tgt Ion:	105	Resp:	2960
Ion Ratio	Lower	Upper	
105	100		
120	45.7	21.8	65.3





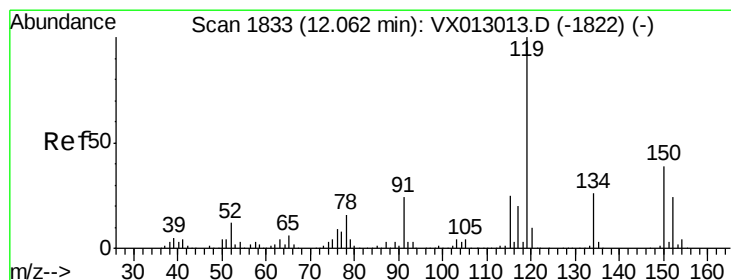
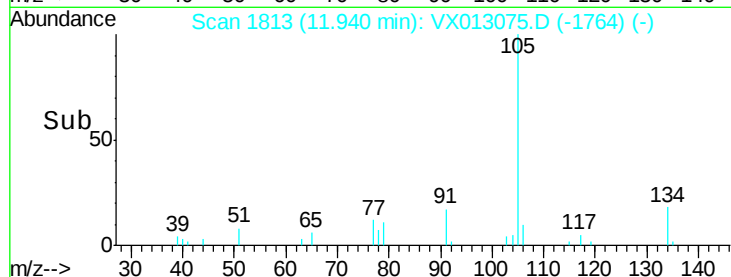
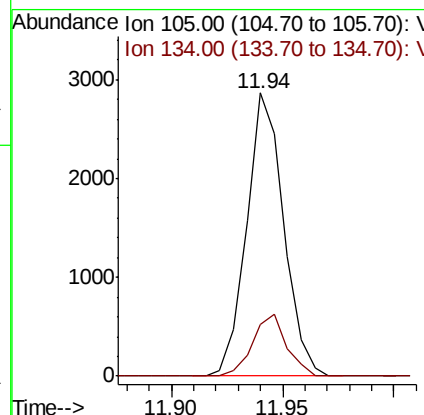
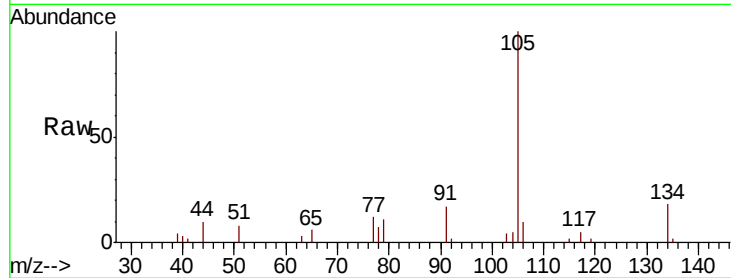
#85
 sec-Butylbenzene
 Concen: 0.462 ug/l
 RT: 11.94 min Scan# 1813
 Delta R.T. -0.00 min
 Lab File: VX013075.D
 Acq: 15 Oct 2019 14:07

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

Tot Ion:105 Resp: 3314
 Ion Ratio Lower Upper
 105 100
 134 20.1 10.0 30.0

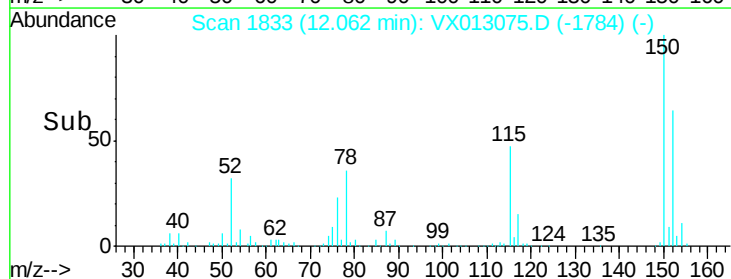
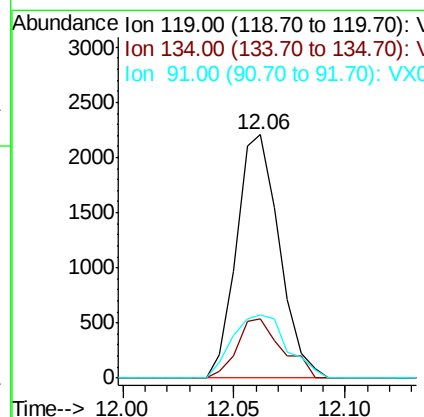
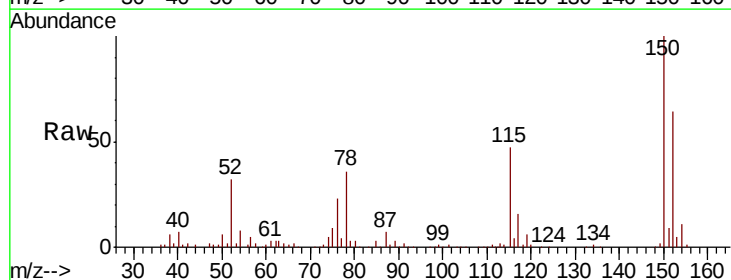
Manual Integrations
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#86
 p-Isopropyltoluene
 Concen: 0.444 ug/l
 RT: 12.06 min Scan# 1833
 Delta R.T. -0.00 min
 Lab File: VX013075.D
 Acq: 15 Oct 2019 14:07

Tgt Ion:119 Resp: 2952
 Ion Ratio Lower Upper
 119 100
 134 25.5 12.6 37.8
 91 33.3 12.4 37.4





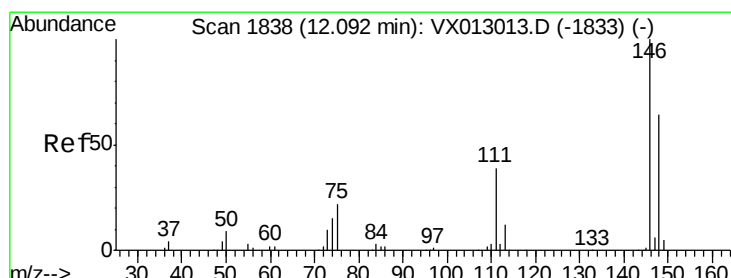
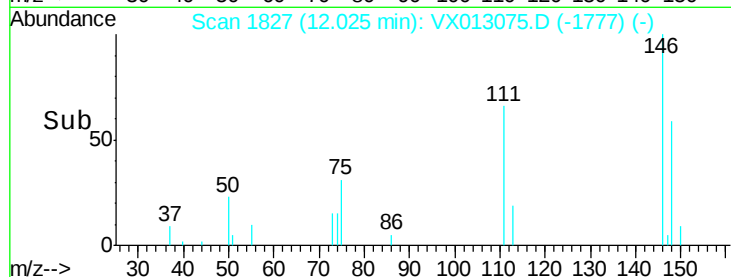
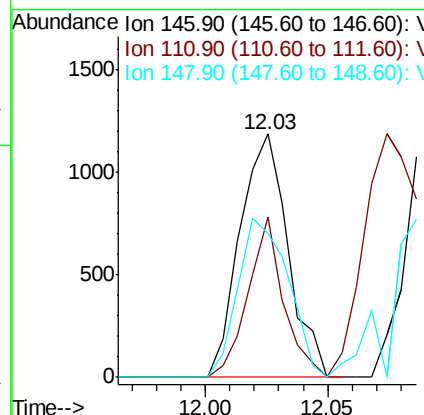
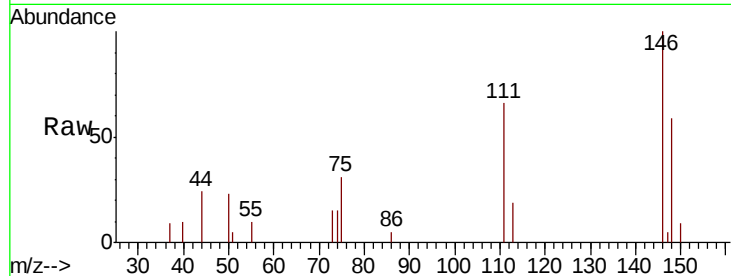
#87
 1,3-Dichlorobenzene
 Concen: 0.486 ug/l
 RT: 12.03 min Scan# 1827
 Delta R.T. 0.01 min
 Lab File: VX013075.D
 Acq: 15 Oct 2019 14:07

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.8	21.1	63.4
148	68.4	31.6	95.0

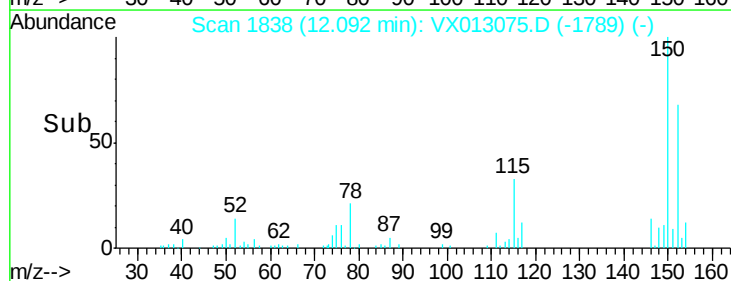
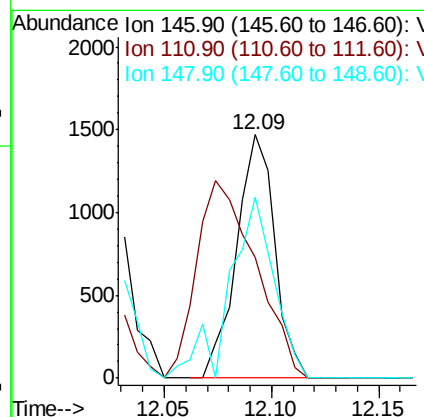
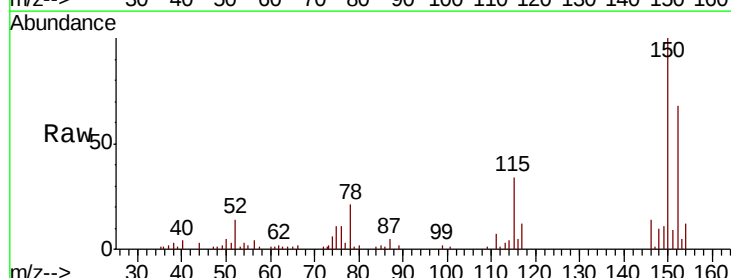
Manual Integrations
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#88
 1,4-Dichlorobenzene
 Concen: 0.539 ug/l m
 RT: 12.09 min Scan# 1838
 Delta R.T. -0.00 min
 Lab File: VX013075.D
 Acq: 15 Oct 2019 14:07

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.4	64.3
148	60.9	32.1	96.5





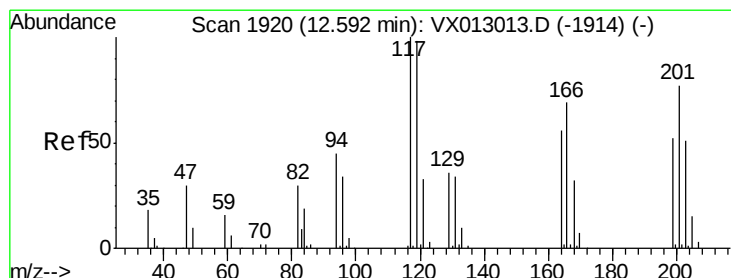
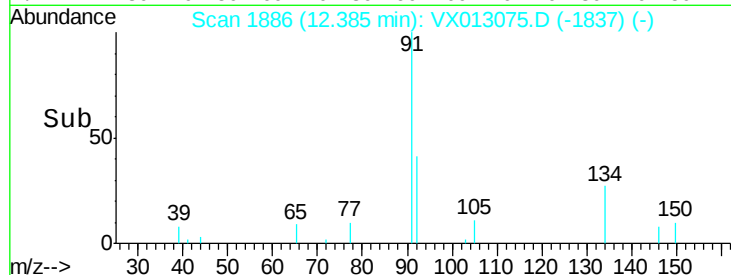
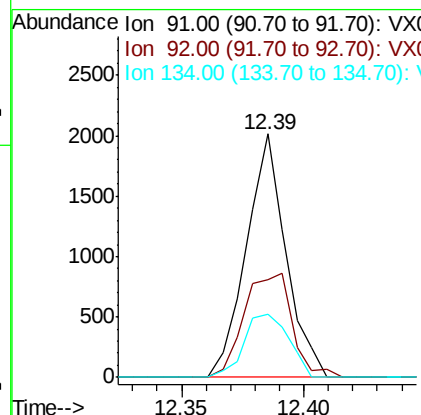
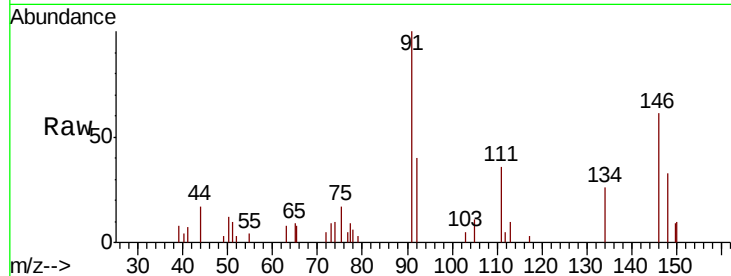
#89
n-Butylbenzene
Concen: 0.405 ug/l
RT: 12.39 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

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

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.9	27.5	82.5
134	29.5	12.9	38.7

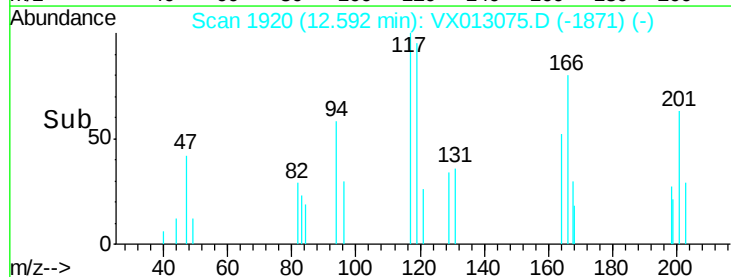
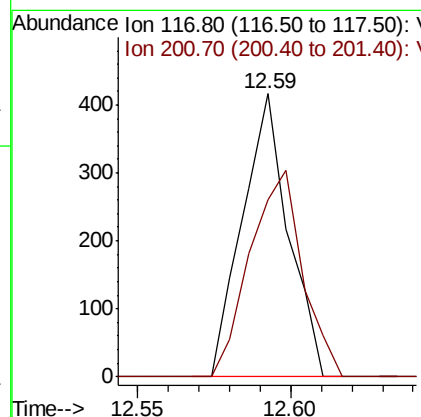
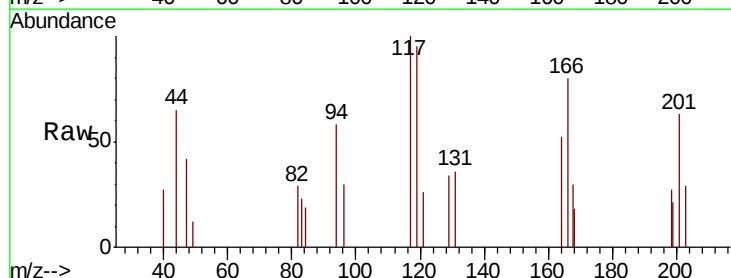
Manual Integrations
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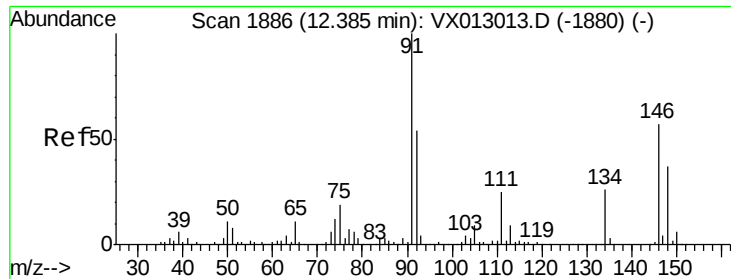
MMDadoda
10/16/2019 9:57:35 AM



#90
Hexachloroethane
Concen: 0.402 ug/l
RT: 12.59 min Scan# 1920
Delta R.T. 0.00 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

Tgt Ion	Ratio	Lower	Upper
117	100		
201	83.4	36.9	110.7





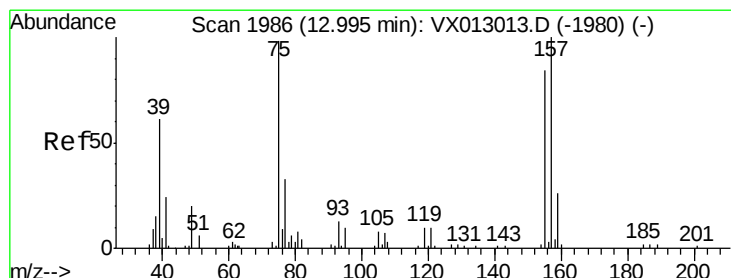
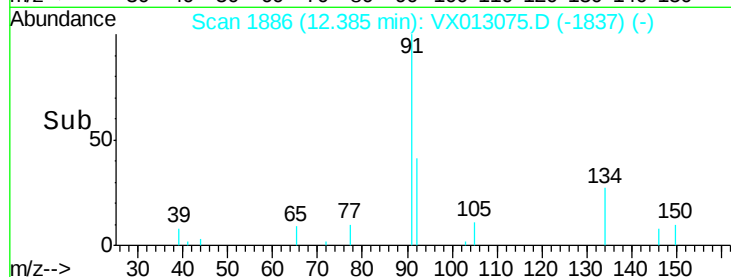
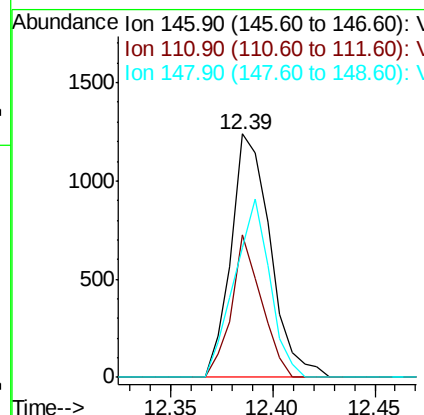
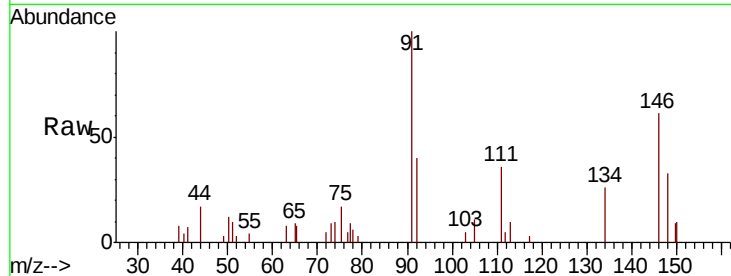
#91
1,2-Dichlorobenzene
Concen: 0.507 ug/l
RT: 12.39 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.4	22.7	68.0
148	66.2	31.6	94.7

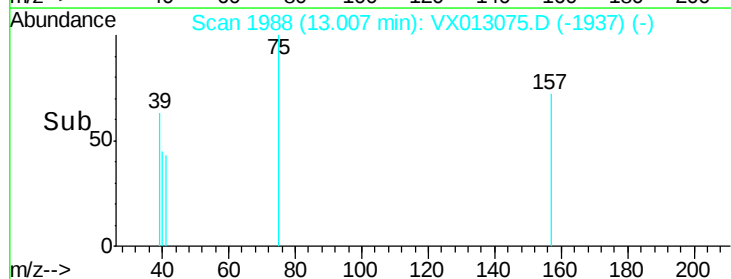
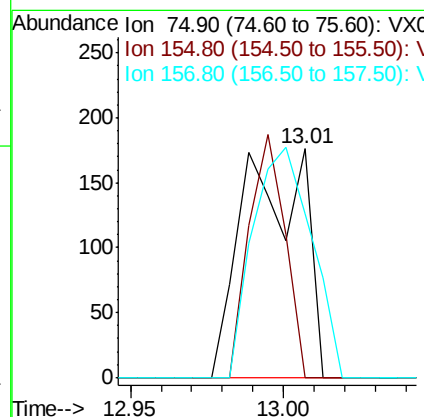
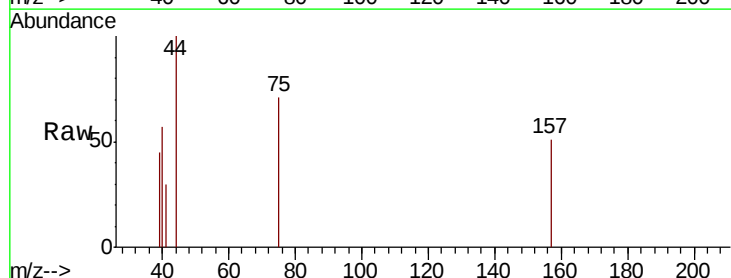
Manual Integrations
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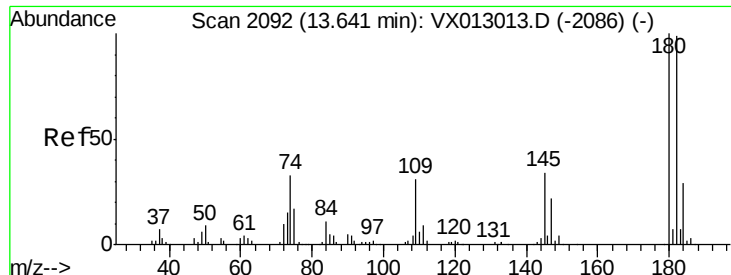
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10/16/2019 9:57:35 AM



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.412 ug/l
RT: 13.01 min Scan# 1988
Delta R.T. 0.01 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

Tgt Ion	Ratio	Lower	Upper
75	100		
155	61.9	43.0	128.8
157	96.7	54.1	162.3





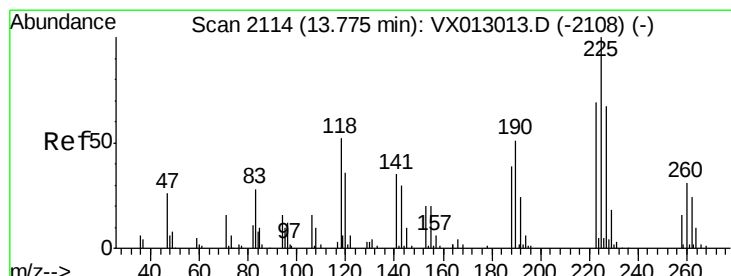
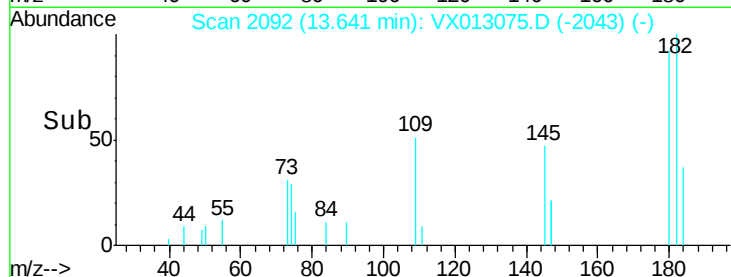
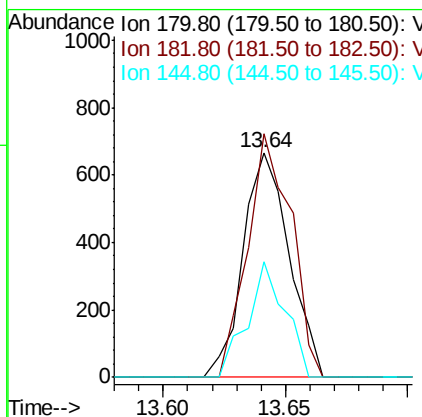
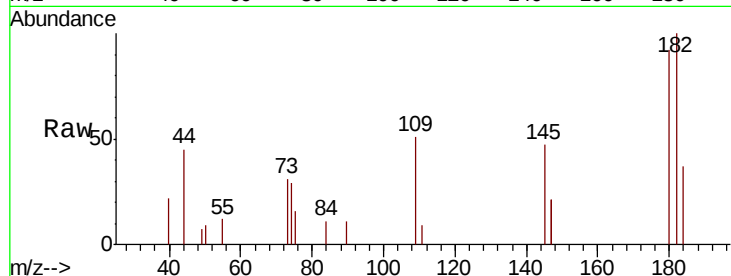
#93
 1,2,4-Trichlorobenzene
 Concen: 0.426 ug/l
 RT: 13.64 min Scan# 2092
 Delta R.T. -0.00 min
 Lab File: VX013075.D
 Acq: 15 Oct 2019 14:07

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

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	102.5	46.8	140.4	
145	41.9	16.2	48.6	

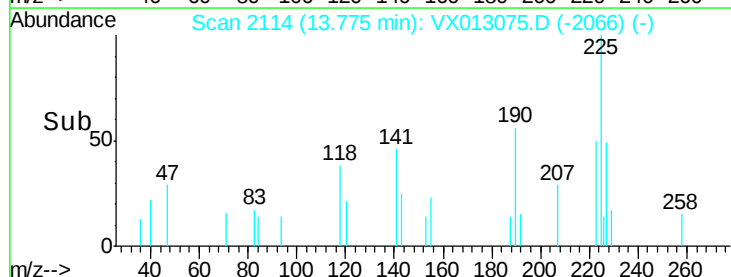
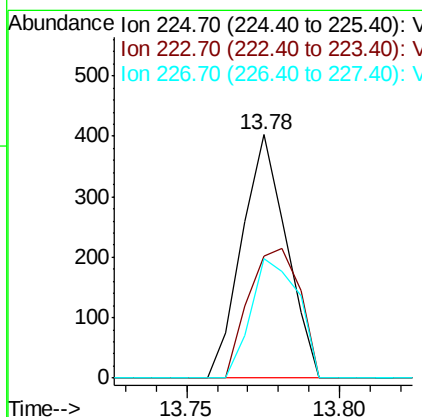
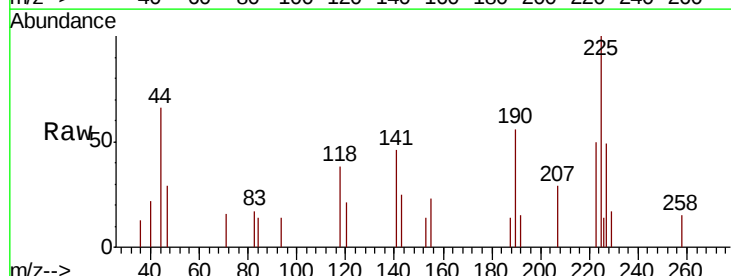
Manual Integrations
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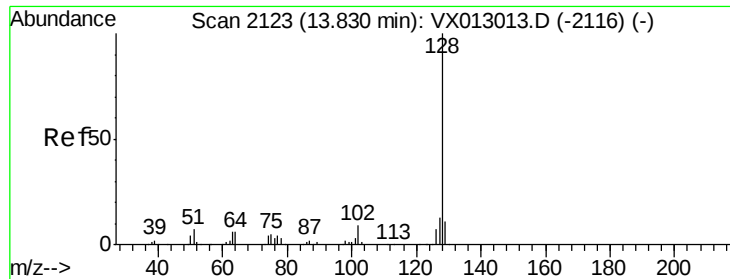
MMDadoda
 10/16/2019 9:57:35 AM



#94
 Hexachlorobutadiene
 Concen: 0.430 ug/l
 RT: 13.78 min Scan# 2114
 Delta R.T. -0.01 min
 Lab File: VX013075.D
 Acq: 15 Oct 2019 14:07

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	61.7	31.1	93.2	
227	52.3	32.3	96.9	





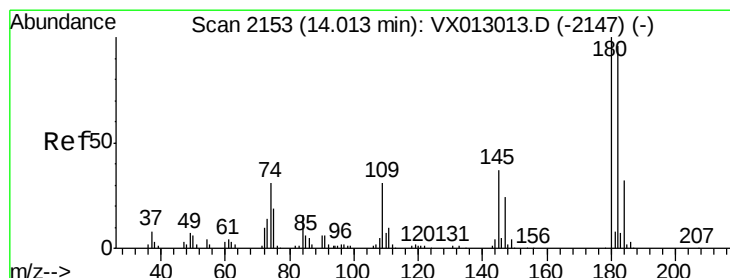
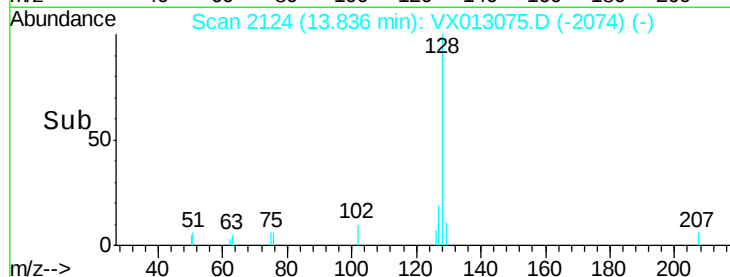
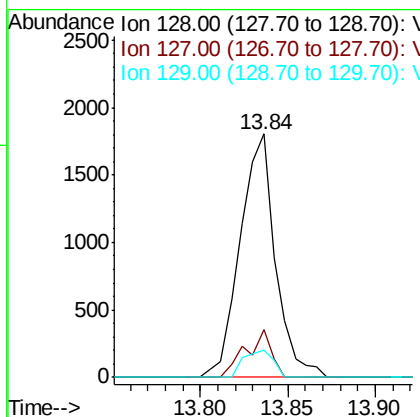
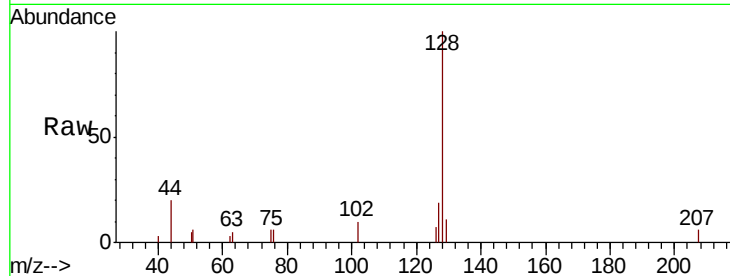
#95
Naphthalene
Concen: 0.357 ug/l
RT: 13.84 min Scan# 2124
Delta R.T. 0.01 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

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

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.2	10.2	15.4
129	9.2	8.8	13.2

Manual Integrations
APPROVED

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10/16/2019 9:57:35 AM



#96
1,2,3-Trichlorobenzene
Concen: 0.477 ug/l
RT: 14.01 min Scan# 2153
Delta R.T. -0.00 min
Lab File: VX013075.D
Acq: 15 Oct 2019 14:07

Tgt Ion	Ratio	Lower	Upper
180	100		
182	84.6	47.5	142.5
145	36.6	17.4	52.3

