

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051319\
 Data File : VX009539.D
 Acq On : 13 May 2019 13:35
 Operator : JC/SP
 Sample : VX0513WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0513WBSD01

Manual Integrations
 APPROVED

MMDadoda
 5/14/2019 12:15:57 PM

Quant Time: May 14 04:08:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	161028	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	257651	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	231815	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	112134	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	102770	46.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.50%	
35) Dibromofluoromethane	5.49	113	76647	47.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.64%	
50) Toluene-d8	8.71	98	307762	47.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.12%	
62) 4-Bromofluorobenzene	11.13	95	111626	46.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.96%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	25965	17.498	ug/l	98
3) Chloromethane	1.32	50	39601	19.547	ug/l	100
4) Vinyl Chloride	1.41	62	38873	19.677	ug/l	98
5) Bromomethane	1.64	94	24135	20.355	ug/l	98
6) Chloroethane	1.72	64	24522	19.334	ug/l	97
7) Trichlorofluoromethane	1.93	101	48878	20.354	ug/l	95
8) Diethyl Ether	2.19	74	22078	19.410	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	2.39	101	30016	19.905	ug/l	99
10) Methyl Iodide	2.51	142	32168	21.267	ug/l	99
11) Tert butyl alcohol	3.04	59	50639	99.519	ug/l	98
12) 1,1-Dichloroethene	2.37	96	30062	19.897	ug/l	98
13) Acrolein	2.29	56	42245	91.674	ug/l	98
14) Allyl chloride	2.73	41	71434	19.400	ug/l	99
15) Acrylonitrile	3.14	53	122503	98.464	ug/l	100
16) Acetone	2.44	43	116262	98.497	ug/l	99
17) Carbon Disulfide	2.57	76	82922	19.548	ug/l	99
18) Methyl Acetate	2.78	43	52863	18.832	ug/l	99
19) Methyl tert-butyl Ether	3.19	73	117157	19.968	ug/l	98
20) Methylene Chloride	2.85	84	36847	19.280	ug/l	99
21) trans-1,2-Dichloroethene	3.17	96	33173	20.245	ug/l	95
22) Diisopropyl ether	3.85	45	141642	20.003	ug/l	95
23) Vinyl Acetate	3.81	43	626483	103.318	ug/l	100
24) 1,1-Dichloroethane	3.70	63	68092	19.493	ug/l	99
25) 2-Butanone	4.67	43	184319	100.488	ug/l	99
26) 2,2-Dichloropropane	4.58	77	50334	19.358	ug/l	99
27) cis-1,2-Dichloroethene	4.59	96	39064	19.973	ug/l	99
28) Bromochloromethane	5.01	49	26878	17.323	ug/l #	20
29) Tetrahydrofuran	5.13	42	120527	102.113	ug/l	99
30) Chloroform	5.21	83	63291	20.033	ug/l	98
31) Cyclohexane	5.58	56	66239	20.382	ug/l	97
32) 1,1,1-Trichloroethane	5.49	97	52043	19.788	ug/l	99
36) 1,1-Dichloropropene	5.80	75	48436	20.229	ug/l	100
37) Ethyl Acetate	4.83	43	68247	20.457	ug/l	100
38) Carbon Tetrachloride	5.79	117	43539	20.014	ug/l	96

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 Misc : 5.0mL/MSVOA X/WATER
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Instrument :
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 ClientSampleID :
 VX0513WBSD01

Manual Integrations
 APPROVED

MMDadoda
 5/14/2019 12:15:57 PM

Quant Time: May 14 04:08:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	60379	20.533	ug/l	98
40) Benzene	6.14	78	148838	20.086	ug/l	99
41) Methacrylonitrile	5.04	41	38831	19.554	ug/l	98
42) 1,2-Dichloroethane	6.19	62	54018	20.322	ug/l	100
43) Isopropyl Acetate	6.44	43	106350	19.930	ug/l	100
44) Trichloroethene	7.21	130	35512	19.823	ug/l	100
45) 1,2-Dichloropropane	7.51	63	42664	20.333	ug/l	97
46) Dibromomethane	7.66	93	23891	19.607	ug/l	97
47) Bromodichloromethane	7.90	83	48642	20.013	ug/l	99
48) Methyl methacrylate	7.77	41	54217	20.479	ug/l	98
49) 1,4-Dioxane	7.74	88	21562	401.603	ug/l	98
51) 4-Methyl-2-Pentanone	8.64	43	351988	100.917	ug/l	100
52) Toluene	8.78	92	92081	20.442	ug/l	98
53) t-1,3-Dichloropropene	9.04	75	53189	19.383	ug/l	99
54) cis-1,3-Dichloropropene	8.43	75	60602	19.952	ug/l	98
55) 1,1,2-Trichloroethane	9.21	97	36808	20.029	ug/l	99
56) Ethyl methacrylate	9.18	69	65359	19.924	ug/l	98
57) 1,3-Dichloropropane	9.37	76	65265	20.182	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.31	63	158005	90.795	ug/l	100
59) 2-Hexanone	9.49	43	275740	100.659	ug/l	99
60) Dibromochloromethane	9.58	129	35296	19.665	ug/l	97
61) 1,2-Dibromoethane	9.67	107	37950	20.458	ug/l	98
64) Tetrachloroethene	9.34	164	33151	20.848	ug/l	98
65) Chlorobenzene	10.14	112	94051	20.281	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.22	131	33899	20.163	ug/l	99
67) Ethyl Benzene	10.25	91	172620	20.226	ug/l	100
68) m/p-Xylenes	10.36	106	127453	40.866	ug/l	99
69) o-Xylene	10.69	106	62191	20.211	ug/l	99
70) Styrene	10.71	104	108341	20.257	ug/l	100
71) Bromoform	10.85	173	26690	19.535	ug/l #	100
73) Isopropylbenzene	11.02	105	167447	20.535	ug/l	100
74) N-amyl acetate	10.90	43	94188	19.812	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.27	83	60493	19.900	ug/l	100
76) 1,2,3-Trichloropropane	11.29	75	52057m	20.013	ug/l	
77) Bromobenzene	11.26	156	41093	20.304	ug/l	98
78) n-propylbenzene	11.36	91	190438	20.450	ug/l	100
79) 2-Chlorotoluene	11.42	91	114438	19.918	ug/l	99
80) 1,3,5-Trimethylbenzene	11.51	105	141103	20.551	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.07	75	19477	19.159	ug/l	96
82) 4-Chlorotoluene	11.51	91	130560	20.115	ug/l	100
83) tert-Butylbenzene	11.77	119	135848	20.339	ug/l	100
84) 1,2,4-Trimethylbenzene	11.80	105	141044	20.466	ug/l	100
85) sec-Butylbenzene	11.94	105	159221	20.107	ug/l	100
86) p-Isopropyltoluene	12.06	119	144633	20.317	ug/l	99
87) 1,3-Dichlorobenzene	12.02	146	71571	19.837	ug/l	100
88) 1,4-Dichlorobenzene	12.10	146	73381	20.173	ug/l	98
89) n-Butylbenzene	12.38	91	128219	19.928	ug/l	100
90) Hexachloroethane	12.60	117	24039	19.821	ug/l	100
91) 1,2-Dichlorobenzene	12.39	146	73172	19.911	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	13.00	75	13747	20.160	ug/l	99

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Instrument :
MSVOA_X
ClientSampleId :
VX0513WBSD01

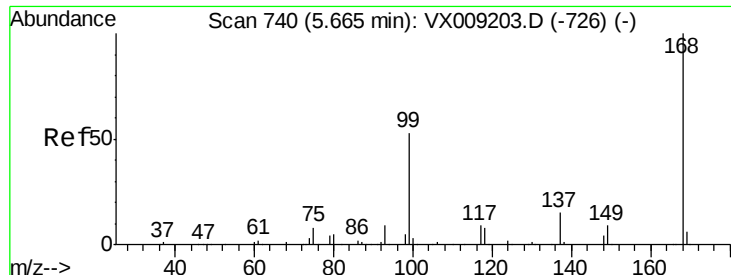
Manual Integrations
APPROVED

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5/14/2019 12:15:57 PM

Quant Time: May 14 04:08:06 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	51079	20.326	ug/l	98
94) Hexachlorobutadiene	13.78	225	26420	20.587	ug/l	100
95) Naphthalene	13.83	128	166475	20.362	ug/l	100
96) 1,2,3-Trichlorobenzene	14.02	180	52811	20.732	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

Instrument :

MSVOA_X

ClientSampleId :

VX0513WBSD01

Tot Ion:168 Resp: 161028

Ion Ratio Lower Upper

168 100

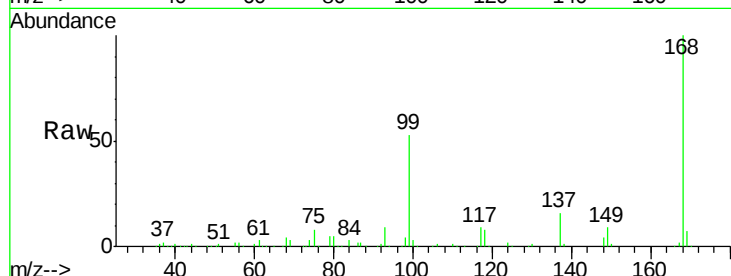
99 52.4 42.3 63.5

Manual Integrations

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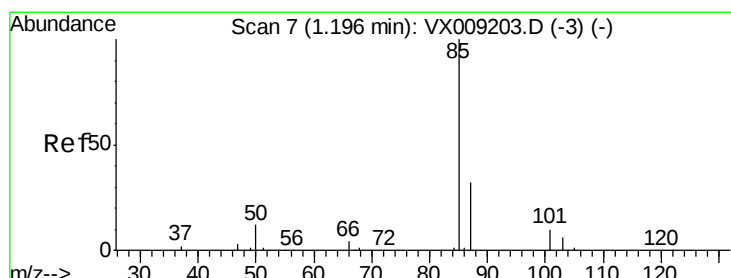
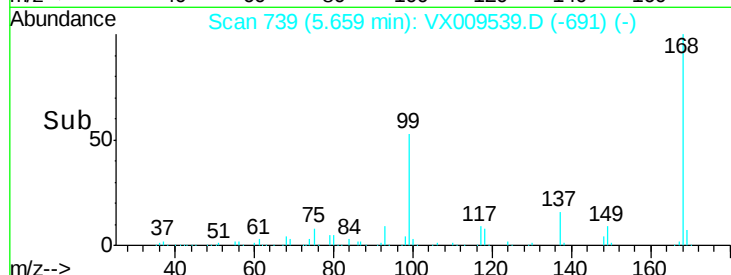
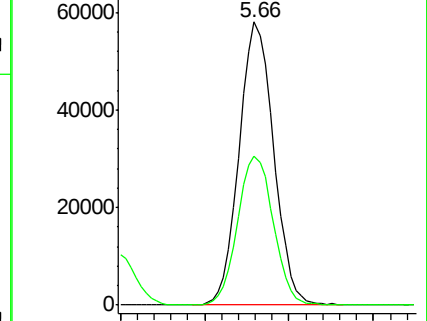
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 17.498 ug/l

RT: 1.20 min Scan# 7

Delta R.T. -0.00 min

Lab File: VX009539.D

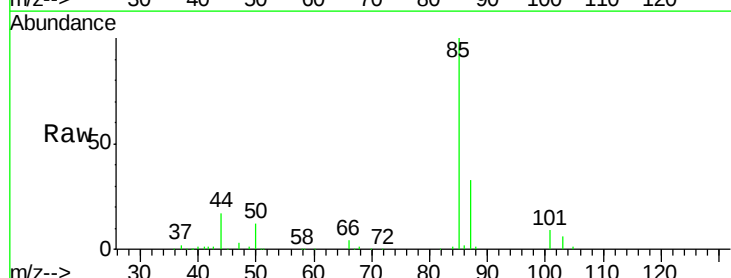
Acq: 13 May 2019 13:35

Tgt Ion: 85 Resp: 25965

Ion Ratio Lower Upper

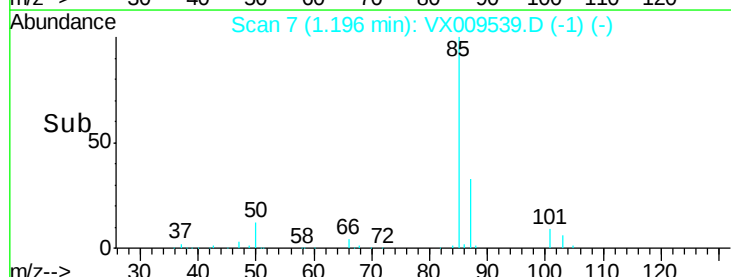
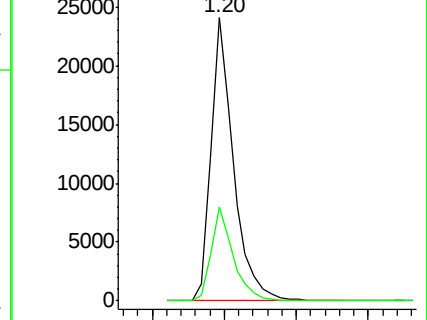
85 100

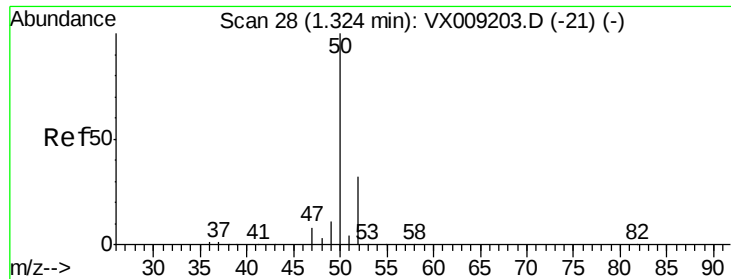
87 33.3 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 19.547 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

Instrument :

MSVOA_X

ClientSampleId :

VX0513WBSD01

Tot Ion: 50 Resp: 39601

Ion Ratio Lower Upper

50 100

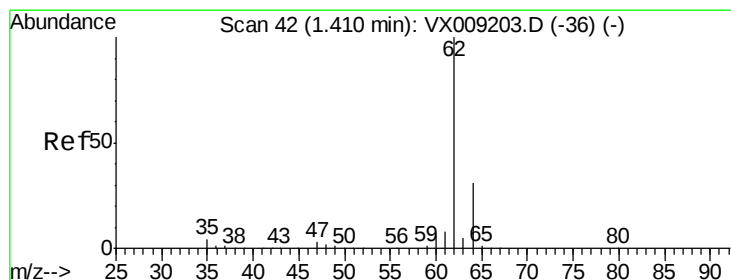
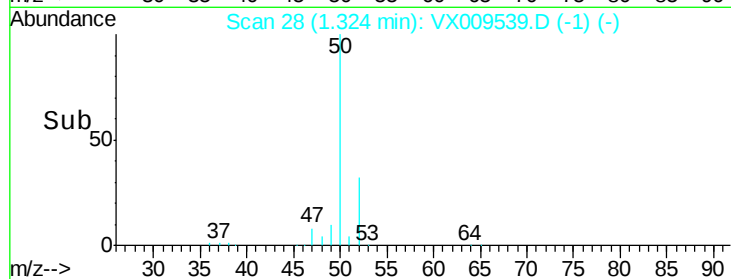
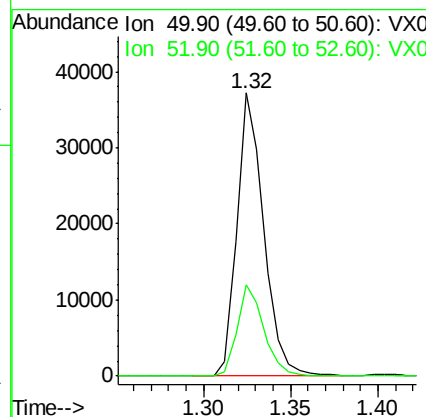
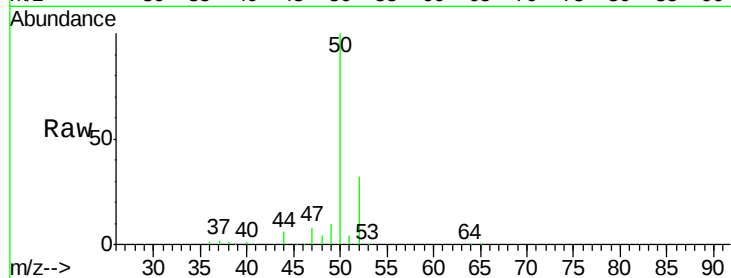
52 32.3 25.9 38.9

Manual Integrations

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#4

Vinyl Chloride

Concen: 19.677 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX009539.D

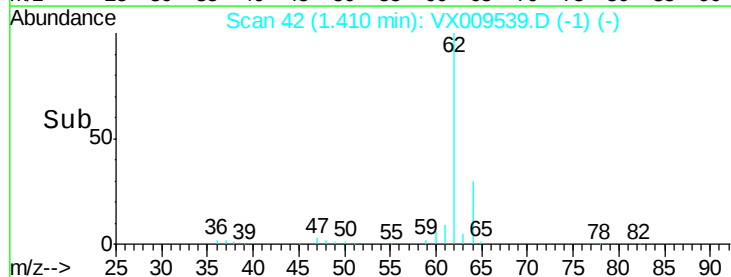
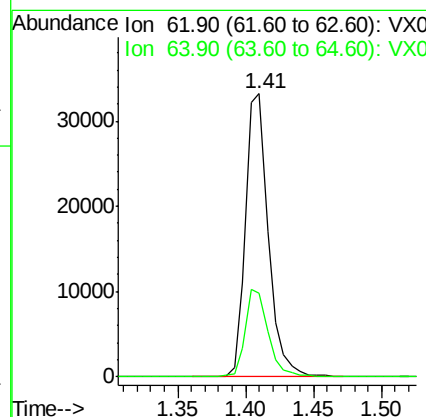
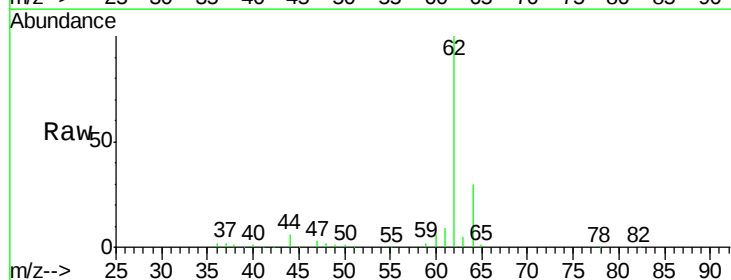
Acq: 13 May 2019 13:35

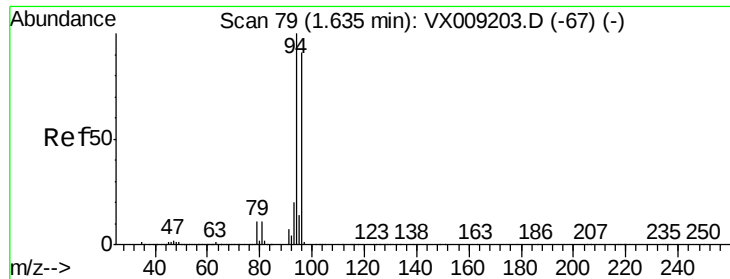
Tgt Ion: 62 Resp: 38873

Ion Ratio Lower Upper

62 100

64 29.5 24.6 36.8





#5

Bromomethane

Concen: 20.355 ug/l

RT: 1.64 min Scan# 79

Delta R.T. -0.00 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

Instrument :

MSVOA_X

ClientSampleId :

VX0513WBSD01

Tot Ion: 94 Resp: 24135

Ion Ratio Lower Upper

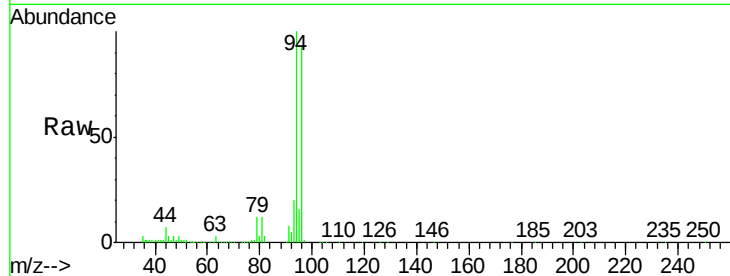
94 100

96 93.3 73.0 109.6

Manual Integrations
APPROVED

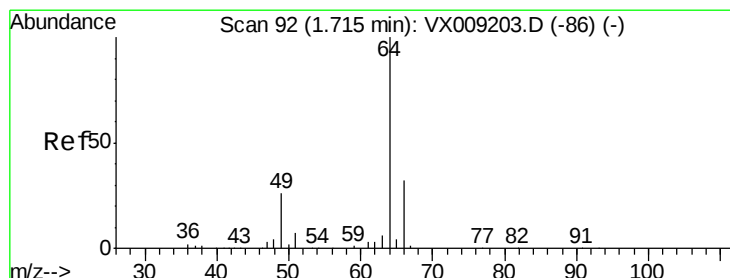
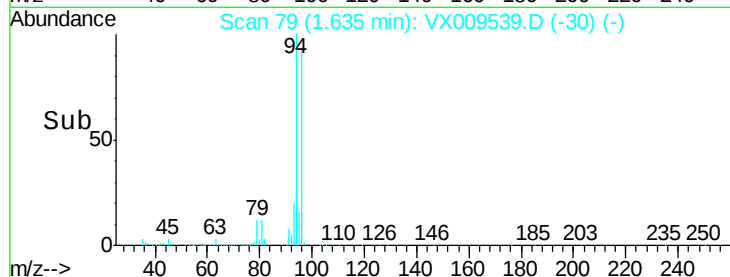
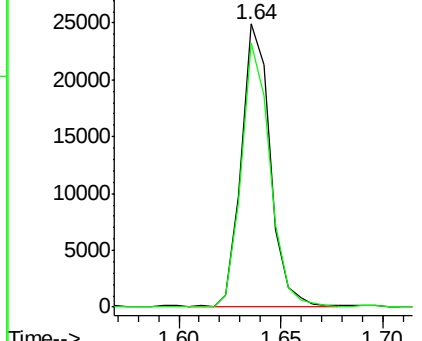
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Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 19.334 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX009539.D

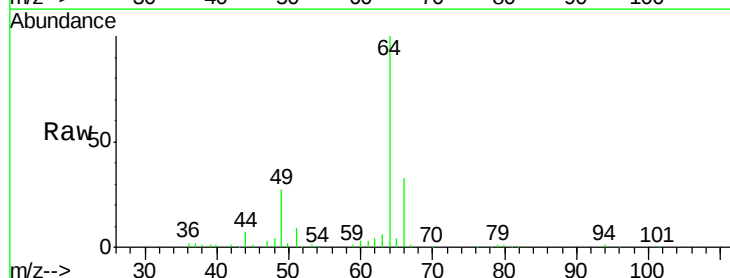
Acq: 13 May 2019 13:35

Tgt Ion: 64 Resp: 24522

Ion Ratio Lower Upper

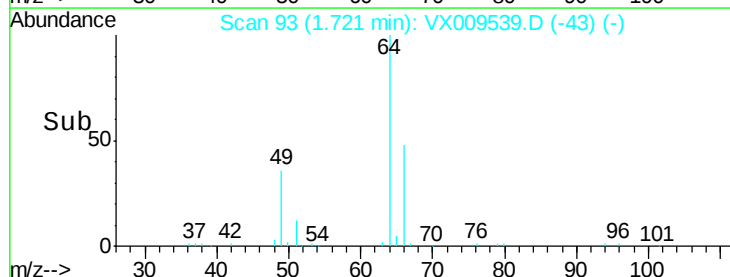
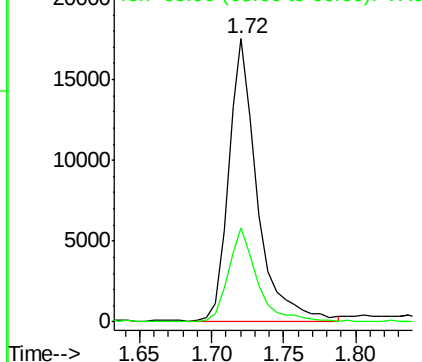
64 100

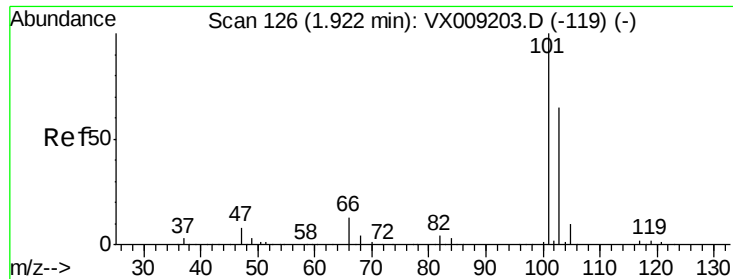
66 33.3 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#7

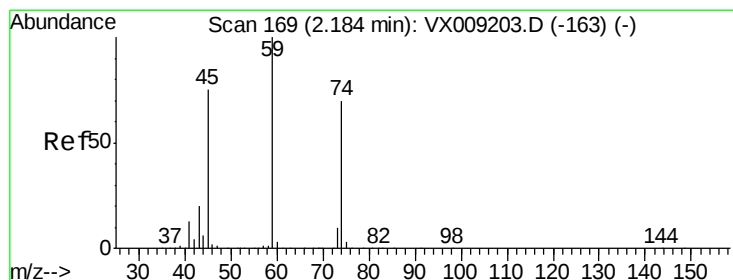
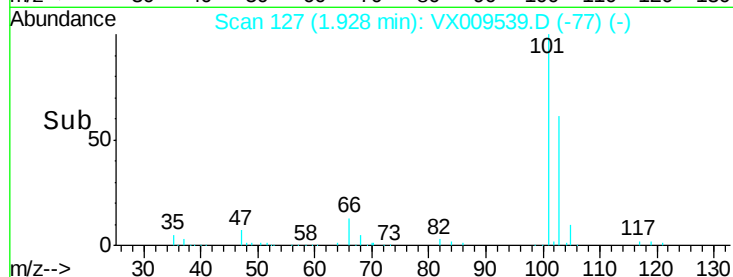
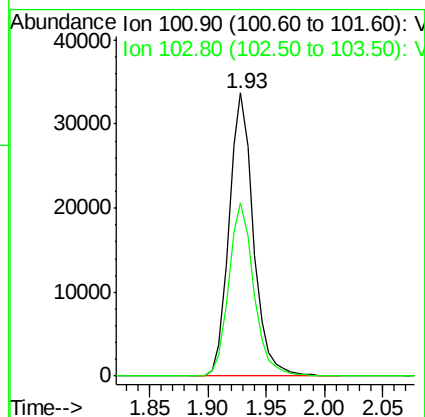
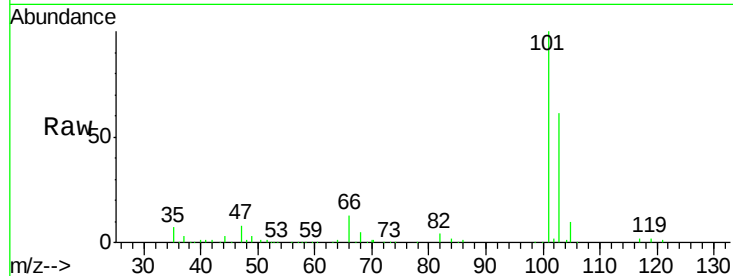
Trichlorofluoromethane
Concen: 20.354 ug/l
RT: 1.93 min Scan# 127
Delta R.T. 0.01 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0513WBSD01

Tot Ion:101 Resp: 48878
Ion Ratio Lower Upper
101 100
103 61.2 52.4 78.6

Manual Integrations
APPROVED

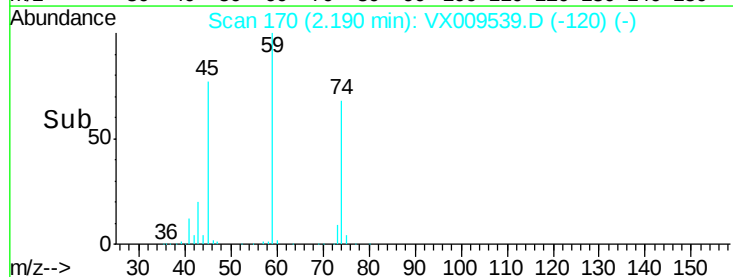
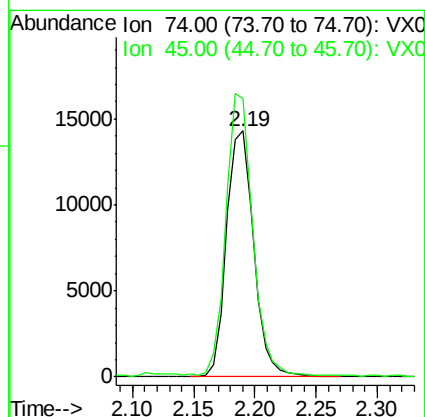
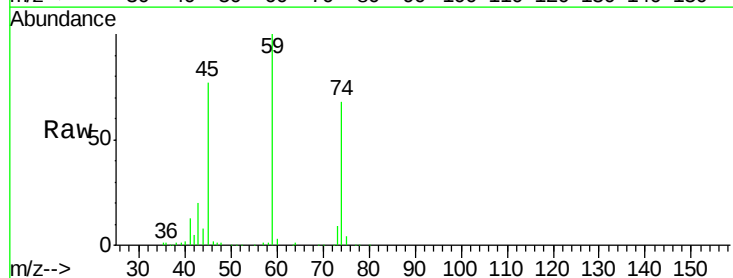
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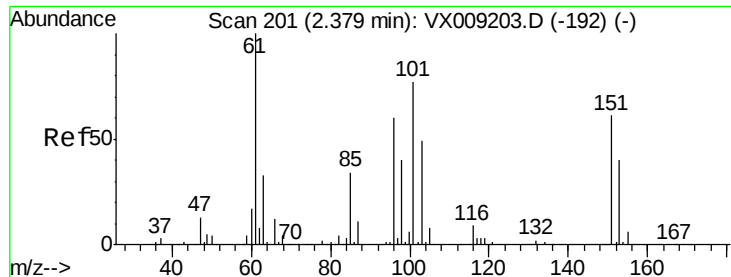


#8

Diethyl Ether
Concen: 19.410 ug/l
RT: 2.19 min Scan# 170
Delta R.T. 0.01 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Tgt Ion: 74 Resp: 22078
Ion Ratio Lower Upper
74 100
45 115.3 53.3 159.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.905 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.01 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

Instrument :

MSVOA_X

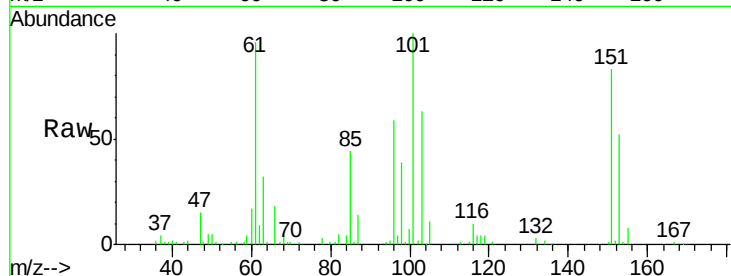
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VX0513WBSD01

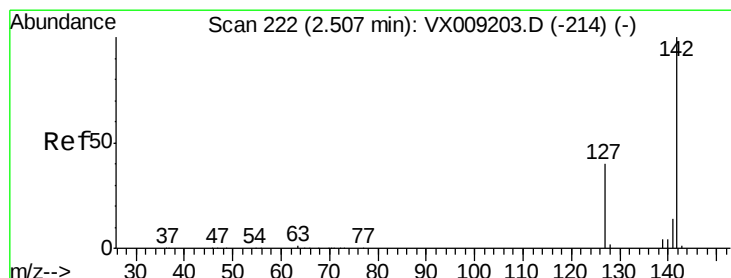
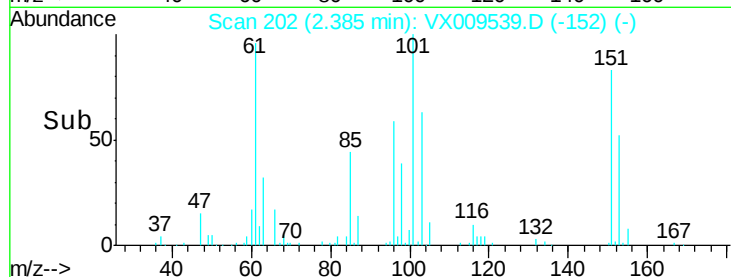
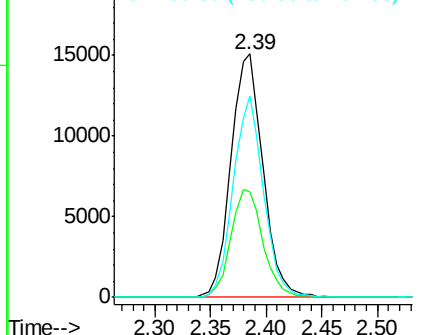
Tot Ion:	101	Resp:	30016
Ion Ratio	Lower	Upper	
101	100		
85	44.4	35.7	53.5
151	78.3	62.2	93.2

Manual Integrations
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Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): VX0
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 21.267 ug/l

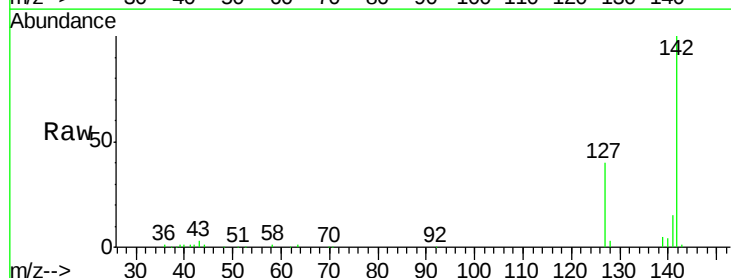
RT: 2.51 min Scan# 222

Delta R.T. 0.00 min

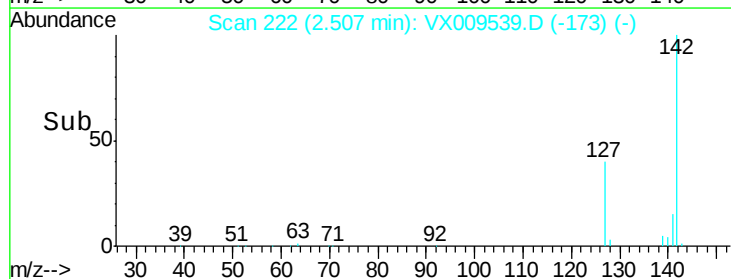
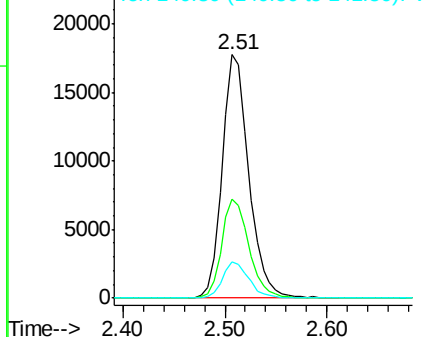
Lab File: VX009539.D

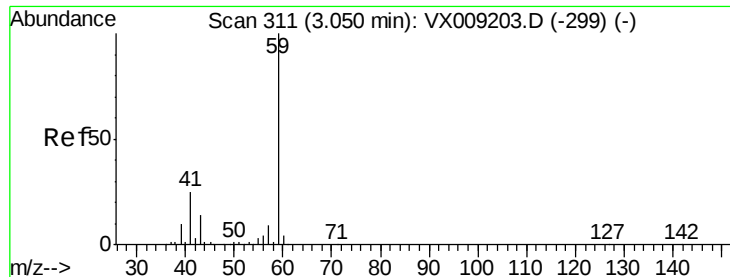
Acq: 13 May 2019 13:35

Tgt Ion:	142	Resp:	32168
Ion Ratio	Lower	Upper	
142	100		
127	41.4	32.7	49.1
141	14.8	11.5	17.3



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





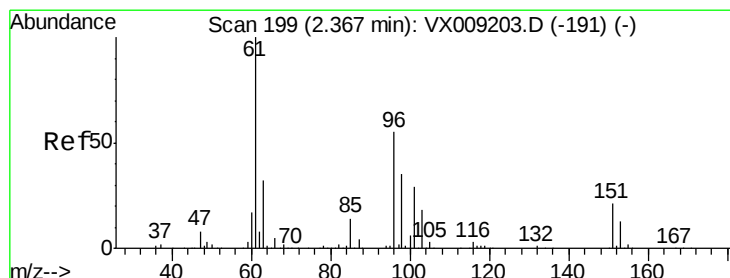
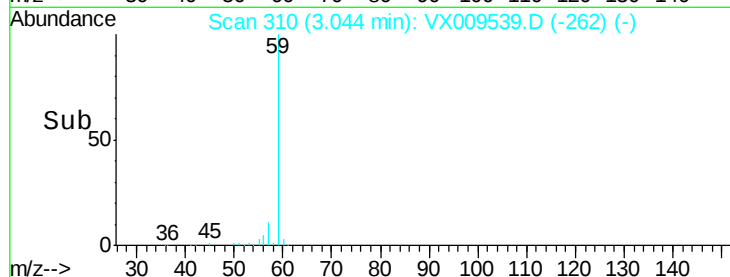
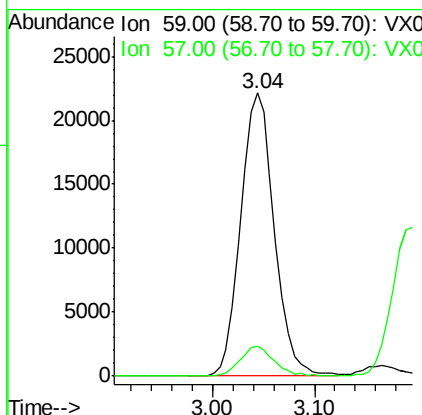
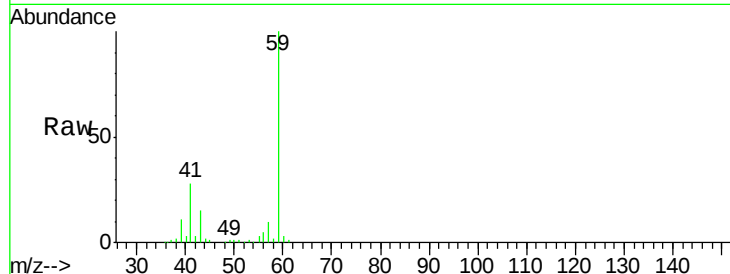
#11
Tert butyl alcohol
Concen: 99.519 ug/l
RT: 3.04 min Scan# 310
Delta R.T. -0.01 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0513WBSD01

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.2	12.2

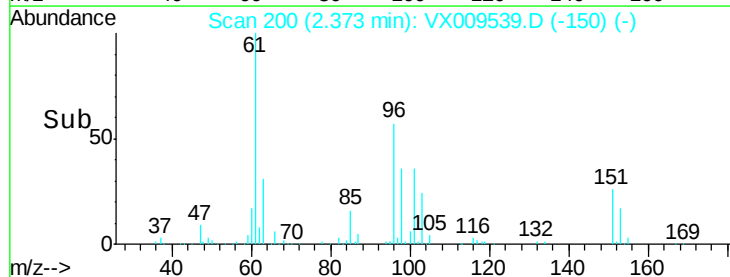
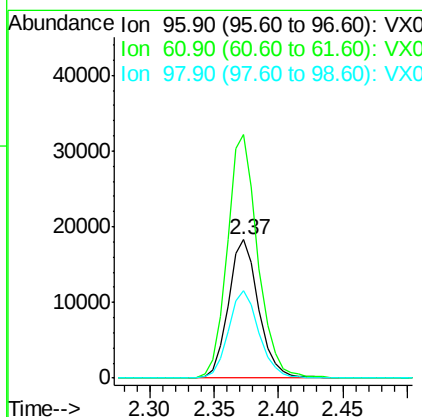
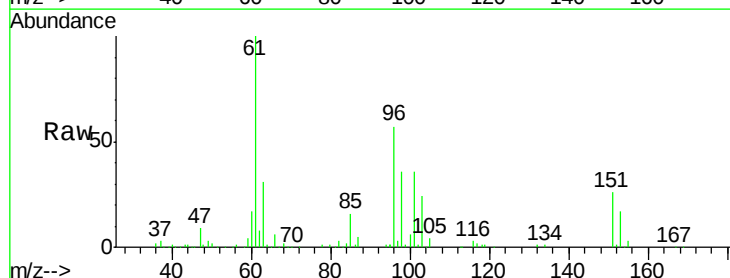
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#12
1,1-Dichloroethene
Concen: 19.897 ug/l
RT: 2.37 min Scan# 200
Delta R.T. 0.01 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Tgt Ion	Ratio	Lower	Upper
96	100		
61	175.7	144.3	216.5
98	63.0	50.3	75.5





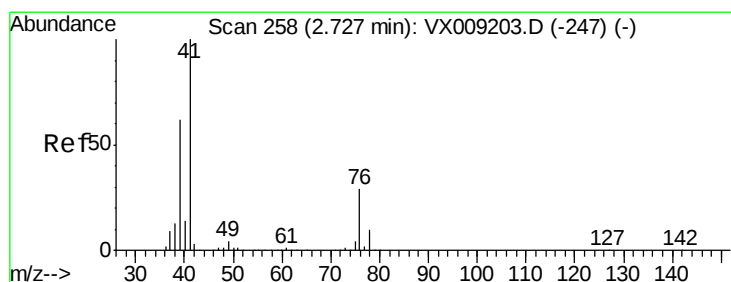
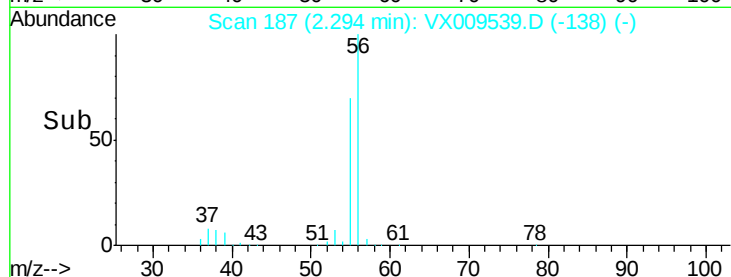
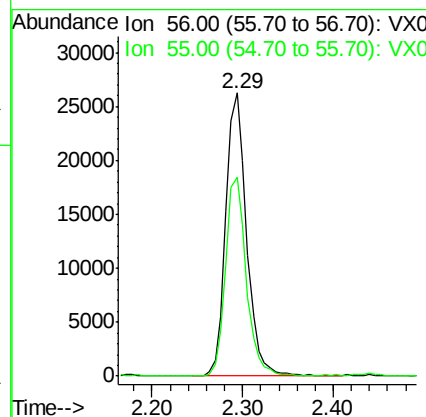
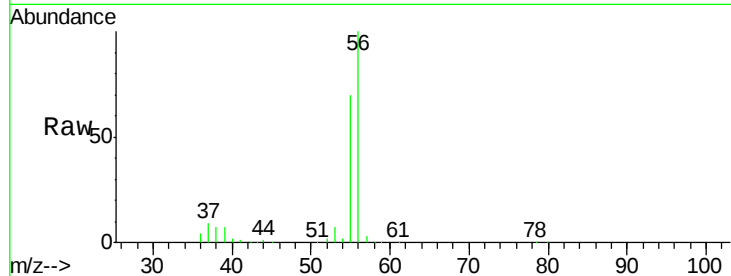
#13
 Acrolein
 Concen: 91.674 ug/l
 RT: 2.29 min Scan# 187
 Delta R.T. -0.00 min
 Lab File: VX009539.D
 Acq: 13 May 2019 13:35

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0513WBSD01

Tot Ion	Ratio	Lower	Upper
56	100		
55	69.0	56.6	85.0

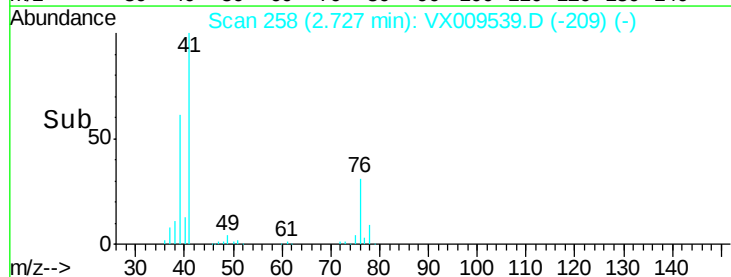
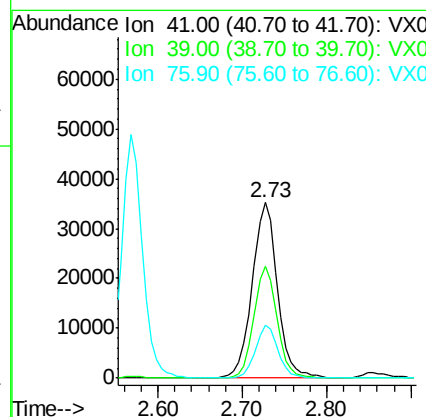
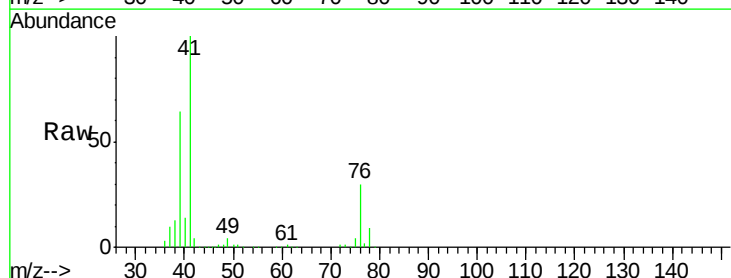
Manual Integrations
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#14
 Allyl chloride
 Concen: 19.400 ug/l
 RT: 2.73 min Scan# 258
 Delta R.T. -0.00 min
 Lab File: VX009539.D
 Acq: 13 May 2019 13:35

Tgt Ion	Ratio	Lower	Upper
41	100		
39	57.7	46.7	70.1
76	27.1	21.8	32.8





#15

Acrylonitrile

Concen: 98.464 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

Instrument :

MSVOA_X

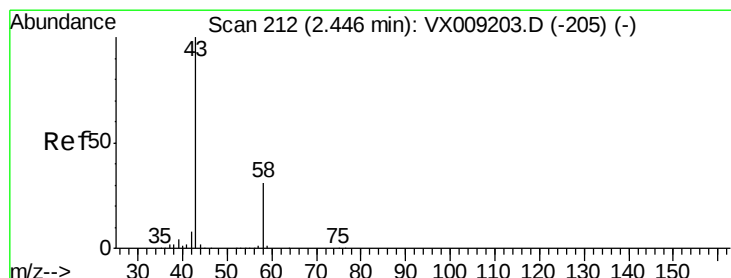
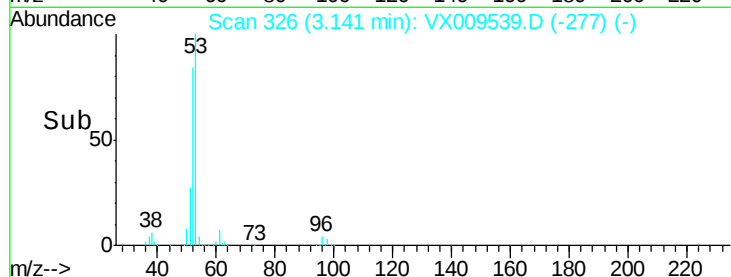
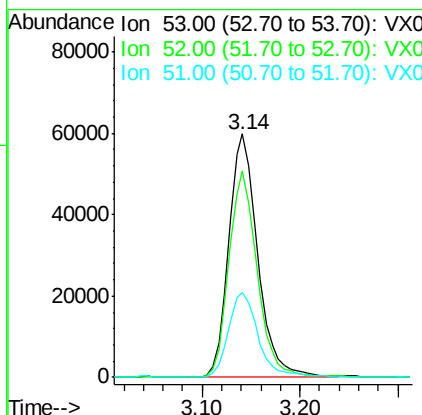
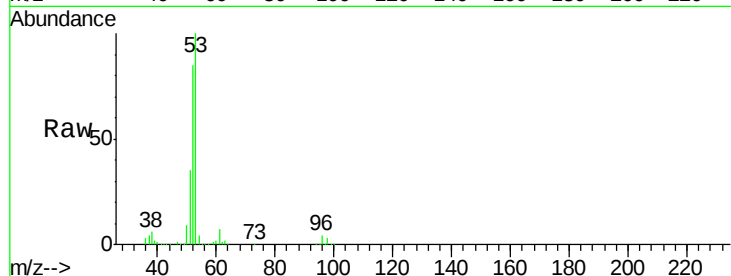
ClientSampleId :

VX0513WBSD01

Tot Ion:	53	Resp:	122503
Ion Ratio		Lower	Upper
53	100		
52	83.8	66.9	100.3
51	35.8	28.2	42.2

Manual Integrations
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#16

Acetone

Concen: 98.497 ug/l

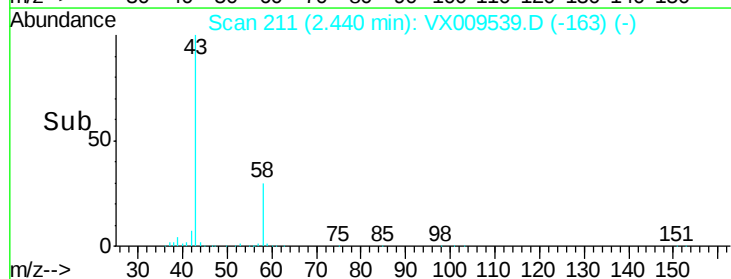
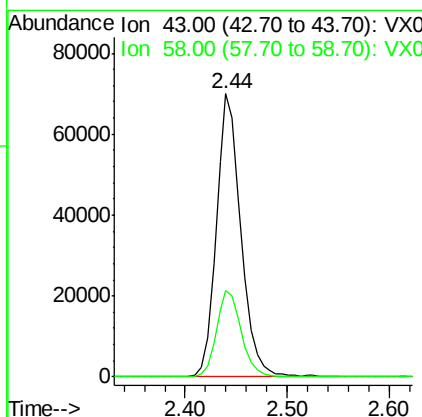
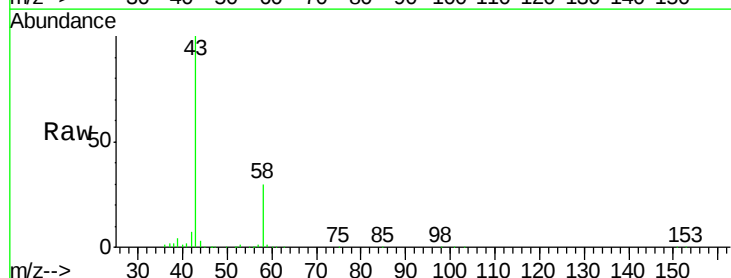
RT: 2.44 min Scan# 211

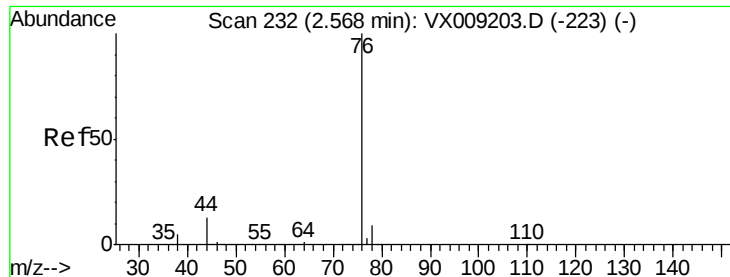
Delta R.T. -0.01 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

Tgt Ion:	43	Resp:	116262
Ion Ratio		Lower	Upper
43	100		
58	30.3	24.9	37.3





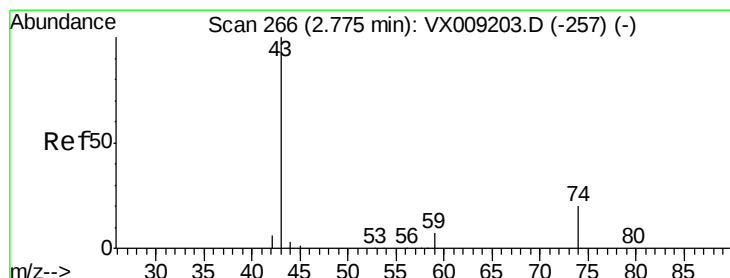
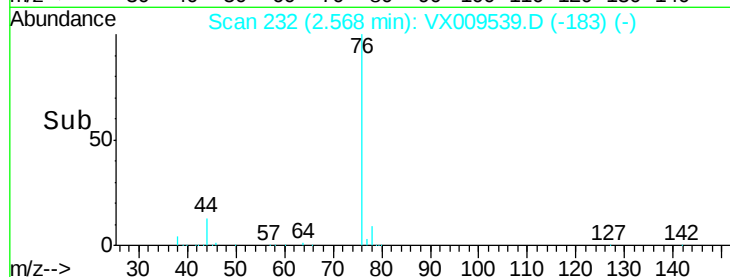
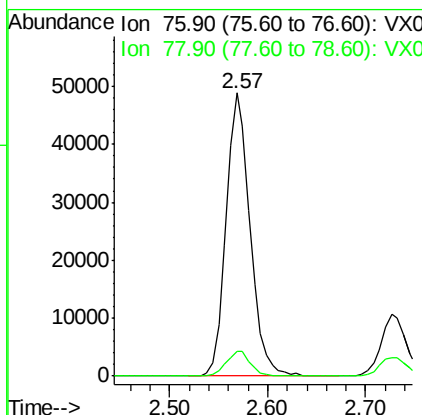
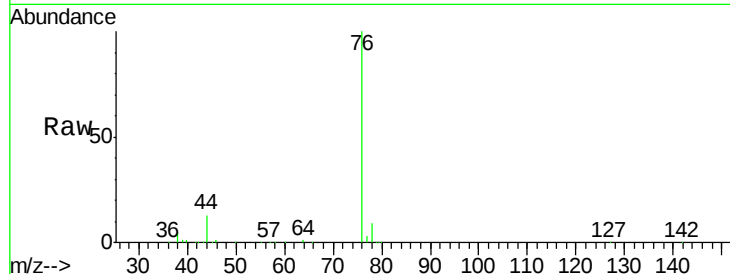
#17
Carbon Disulfide
Concen: 19.548 ug/l
RT: 2.57 min Scan# 232
Delta R.T. -0.00 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0513WBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.4	11.0

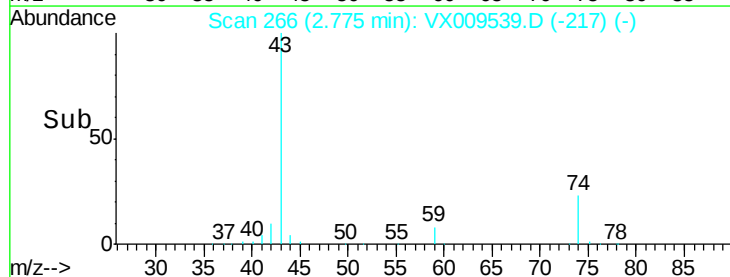
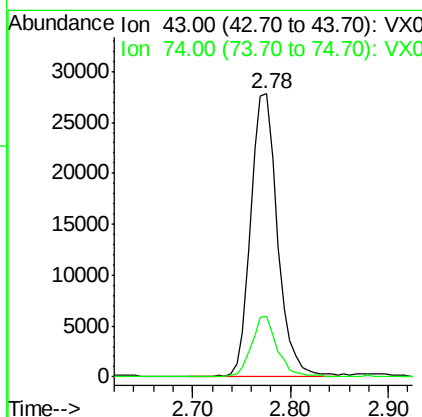
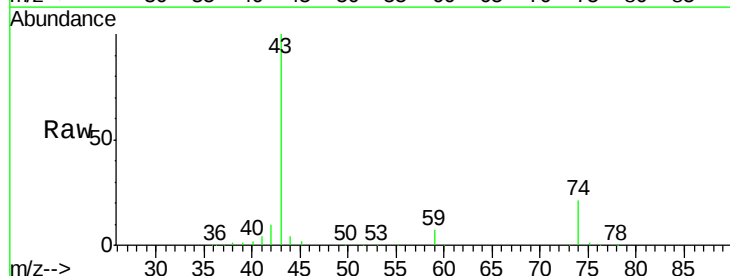
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#18
Methyl Acetate
Concen: 18.832 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.00 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Tgt Ion	Ratio	Lower	Upper
43	100		
74	20.5	16.2	24.4





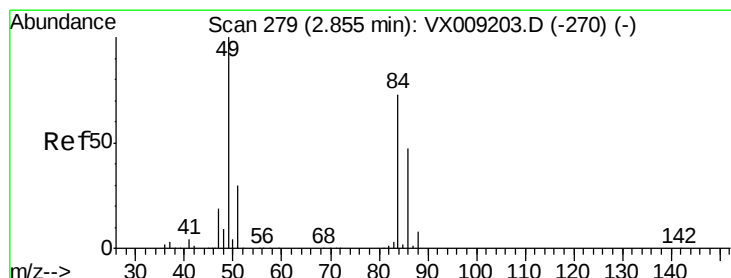
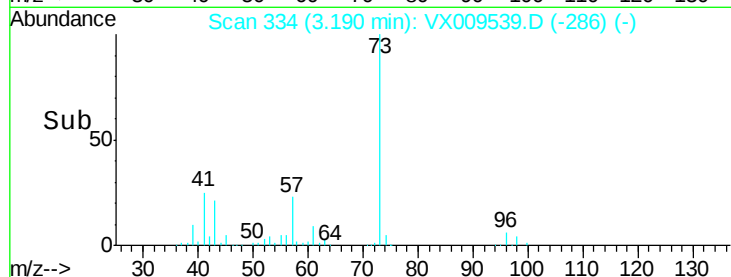
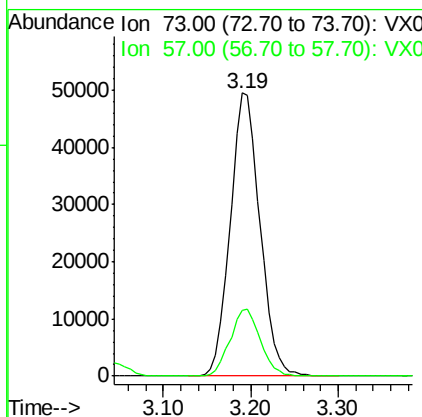
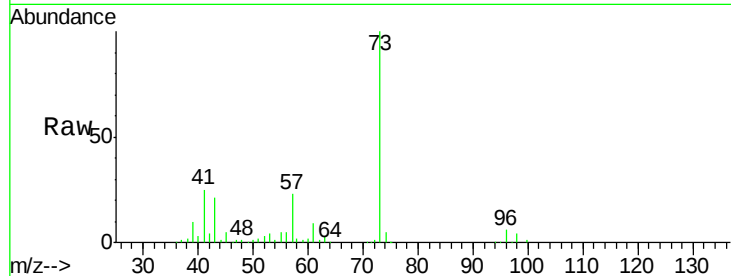
#19
Methvl tert-butvl Ether
Concen: 19.968 ug/l
RT: 3.19 min Scan# 334
Delta R.T. -0.01 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0513WBSD01

Tot Ion: 73 Resp: 117157
Ion Ratio Lower Upper
73 100
57 23.1 19.3 28.9

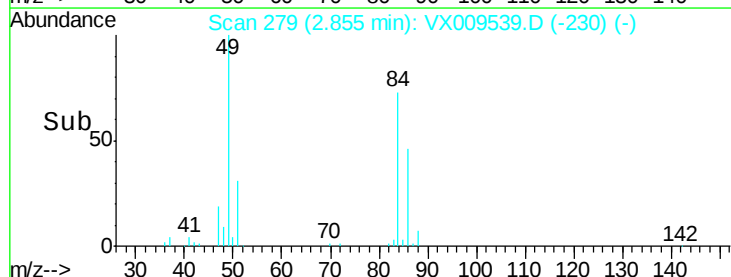
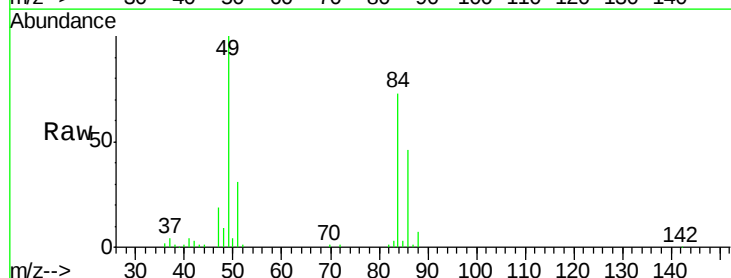
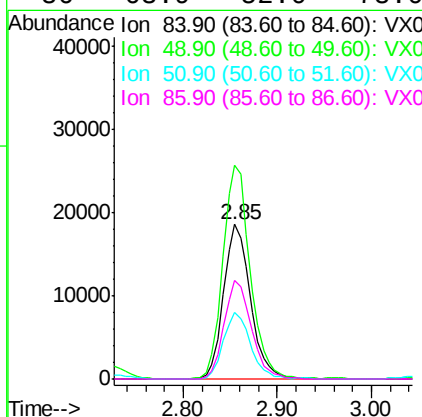
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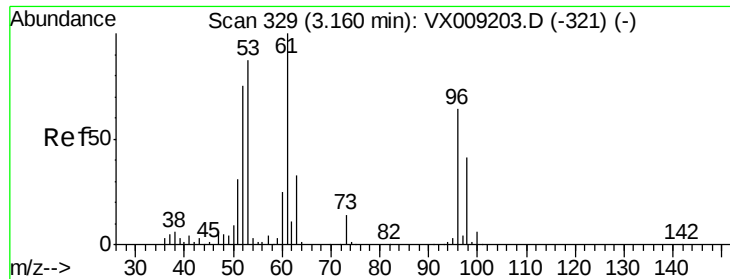
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#20
Methylene Chloride
Concen: 19.280 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Tgt Ion: 84 Resp: 36847
Ion Ratio Lower Upper
84 100
49 137.7 109.9 164.9
51 43.2 32.7 49.1
86 63.9 52.0 78.0





#21

trans-1,2-Dichloroethene

Concen: 20.245 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.01 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

Instrument :

MSVOA_X

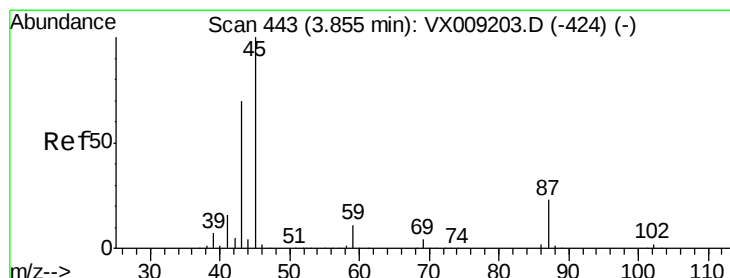
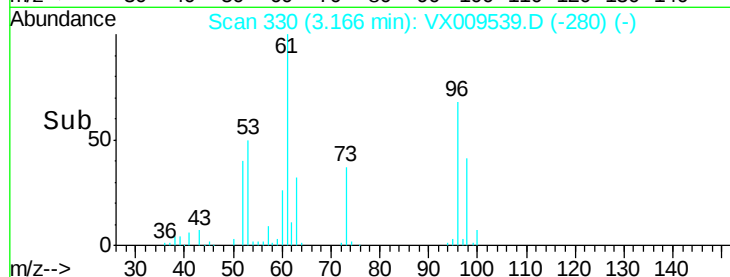
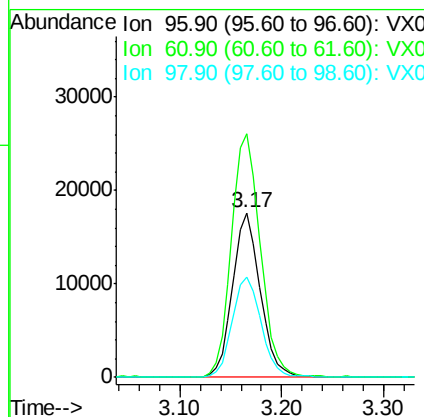
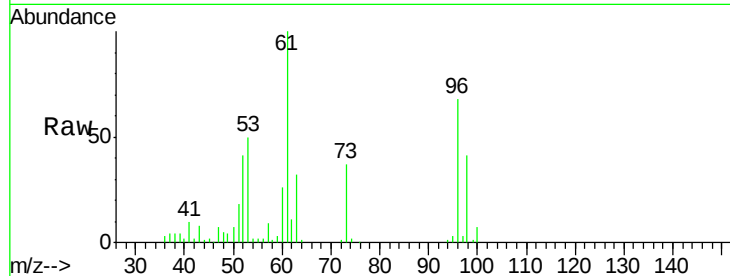
ClientSampled :

VX0513WBSD01

Tot Ion:	96	Resp:	33173
Ion	Ratio	Lower	Upper
96	100		
61	148.1	124.5	186.7
98	60.9	50.4	75.6

Manual Integrations
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#22

Diisopropyl ether

Concen: 20.003 ug/l

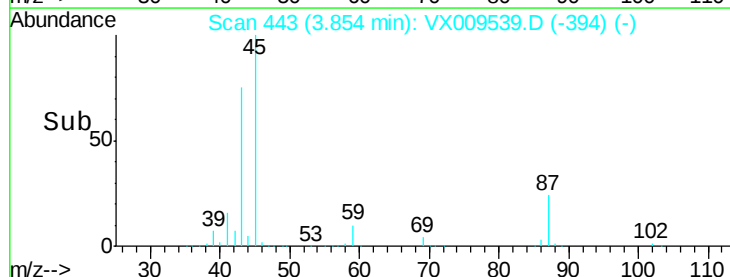
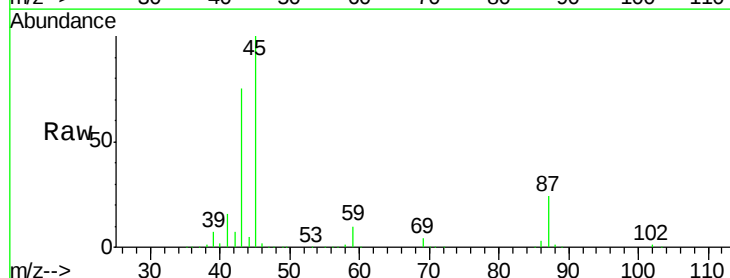
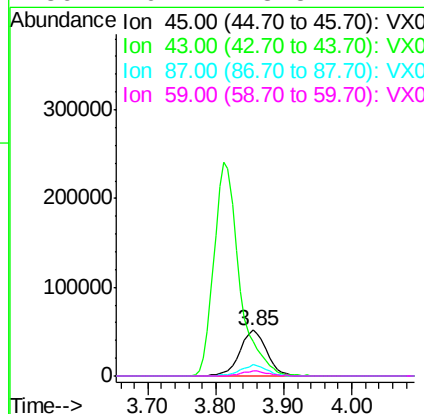
RT: 3.85 min Scan# 443

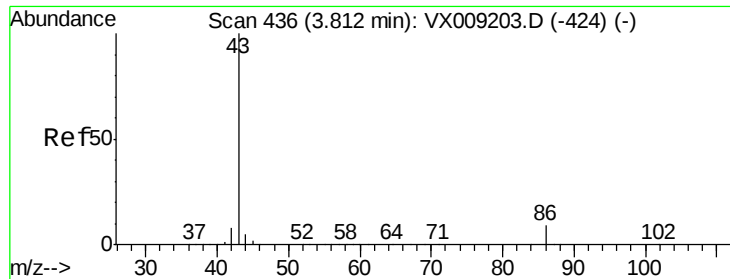
Delta R.T. -0.00 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

Tgt Ion:	45	Resp:	141642
Ion	Ratio	Lower	Upper
45	100		
43	74.7	56.1	84.1
87	24.0	18.1	27.1
59	10.2	8.5	12.7





#23

Vinyl Acetate

Concen: 103.318 ug/l

RT: 3.81 min Scan# 436

Delta R.T. -0.00 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

Instrument :

MSVOA_X

ClientSampleId :

VX0513WBSD01

Tot Ion: 43 Resp: 626483

Ion Ratio Lower Upper

43 100

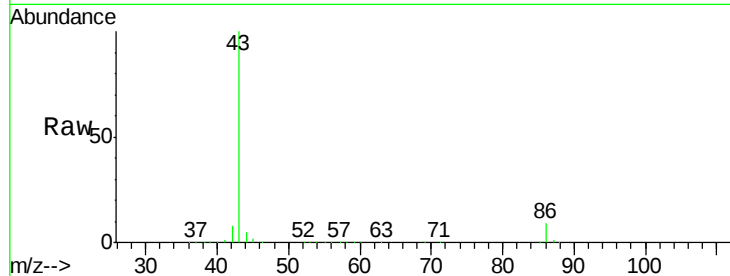
86 8.5 6.9 10.3

Manual Integrations

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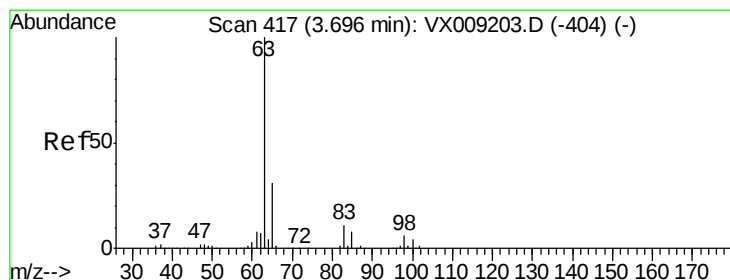
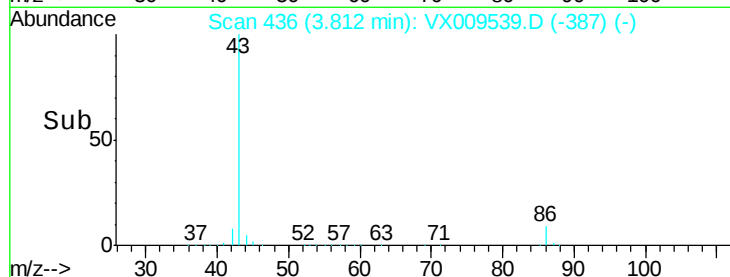
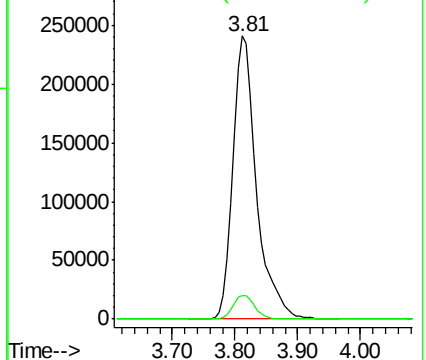
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Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0



#24

1,1-Dichloroethane

Concen: 19.493 ug/l

RT: 3.70 min Scan# 417

Delta R.T. -0.00 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

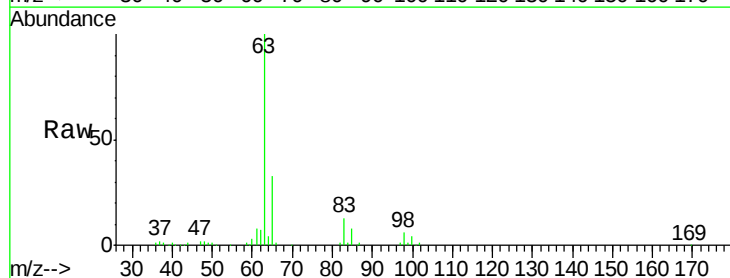
Tgt Ion: 63 Resp: 68092

Ion Ratio Lower Upper

63 100

98 5.7 3.0 9.2

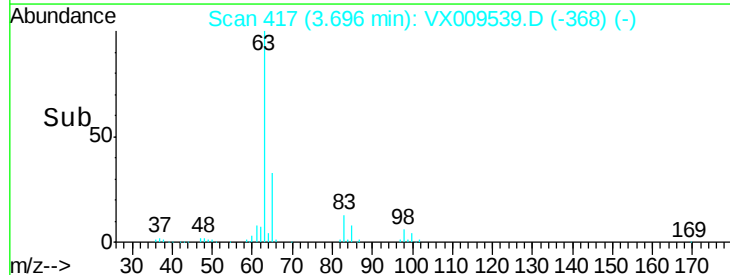
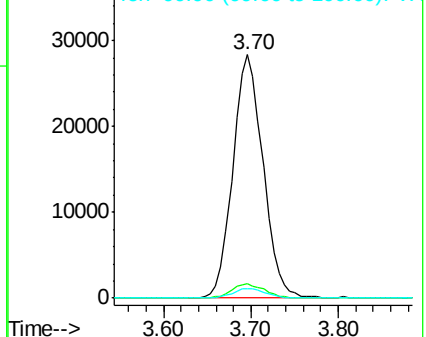
100 3.9 2.0 6.0

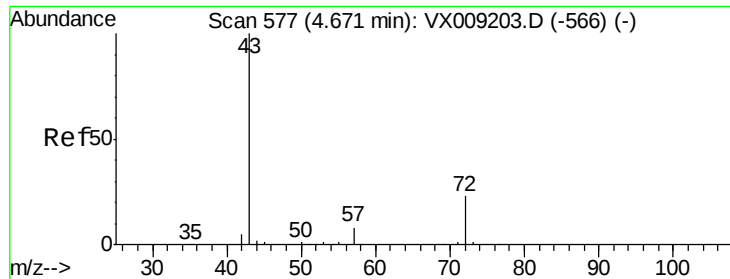


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0





#25

2-Butanone

Concen: 100.488 ug/l

RT: 4.67 min Scan# 577

Delta R.T. -0.00 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

Instrument :

MSVOA_X

ClientSampled :

VX0513WBSD01

Tot Ion: 43 Resp: 184319

Ion Ratio Lower Upper

43 100

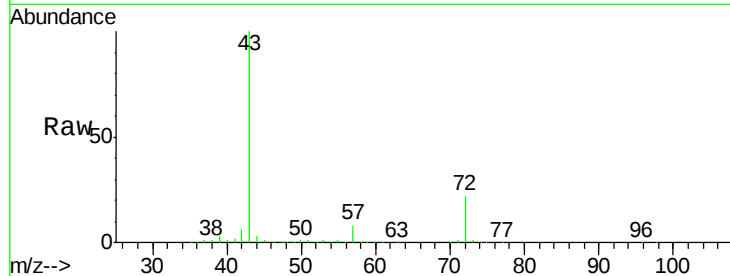
72 22.3 18.2 27.2

Manual Integrations

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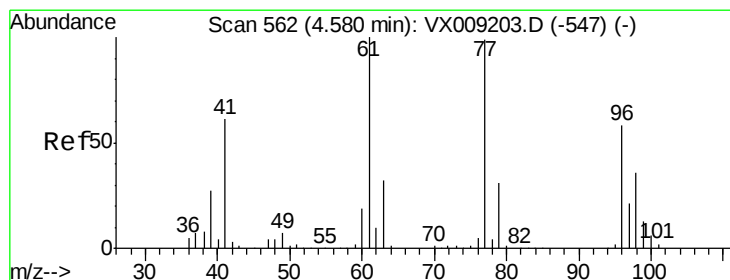
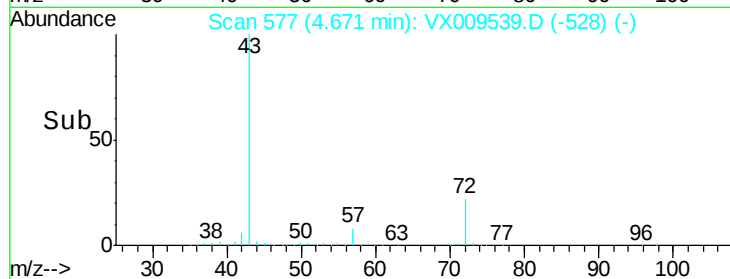
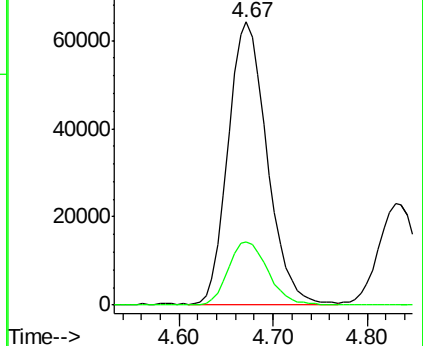
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Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#26

2,2-Dichloropropane

Concen: 19.358 ug/l

RT: 4.58 min Scan# 562

Delta R.T. -0.00 min

Lab File: VX009539.D

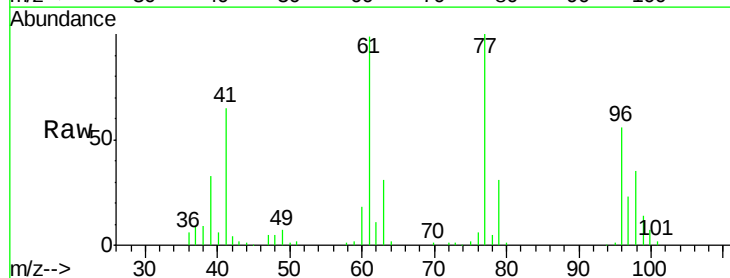
Acq: 13 May 2019 13:35

Tgt Ion: 77 Resp: 50334

Ion Ratio Lower Upper

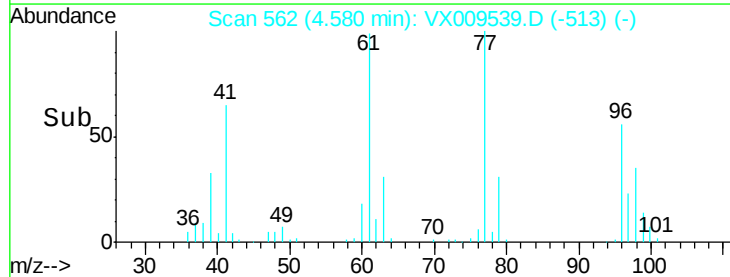
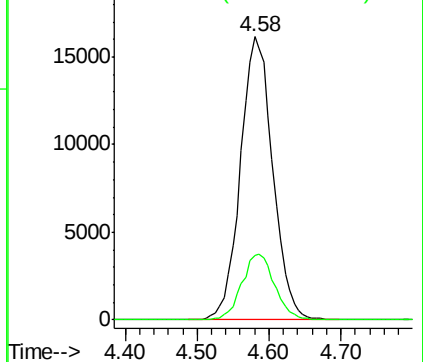
77 100

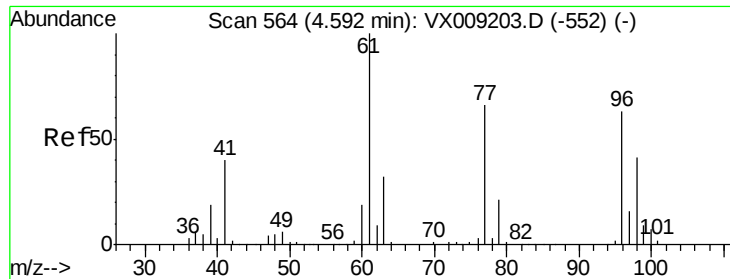
97 23.6 11.5 34.4



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0





#27

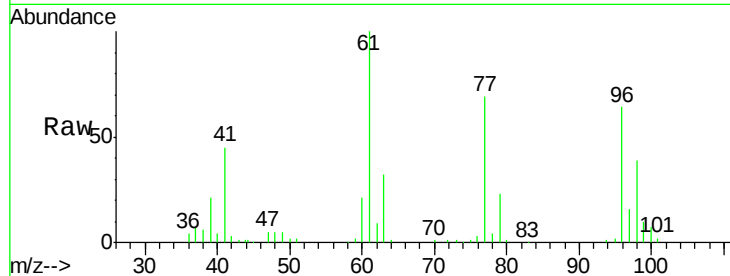
cis-1,2-Dichloroethene
Concen: 19.973 ug/l
RT: 4.59 min Scan# 564
Delta R.T. -0.00 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0513WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	161.5	0.0	324.0
98	63.2	0.0	130.4

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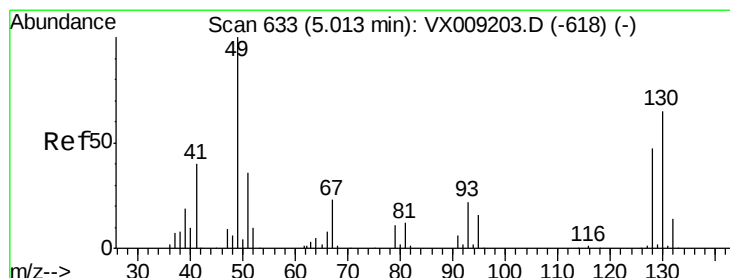
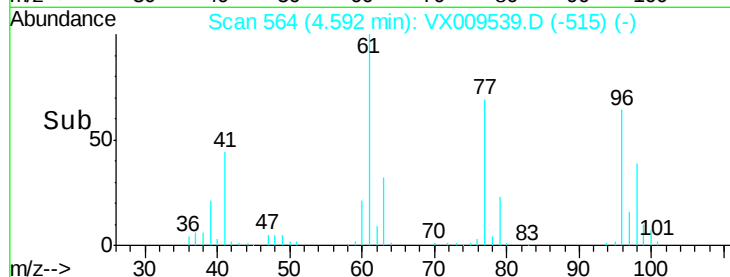
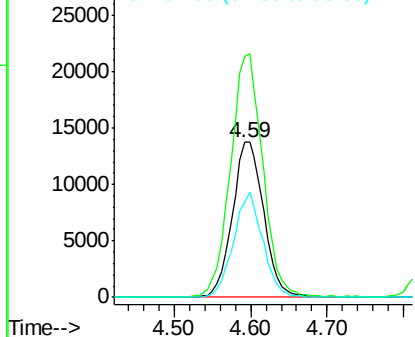


Abundance

Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

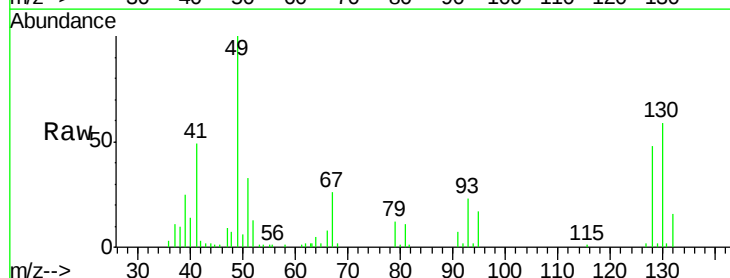
Ion 97.90 (97.60 to 98.60): VX0



#28

Bromochloromethane
Concen: 17.323 ug/l
RT: 5.01 min Scan# 633
Delta R.T. 0.00 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.7	0.0	3.8
130	0.0	51.2	76.8#

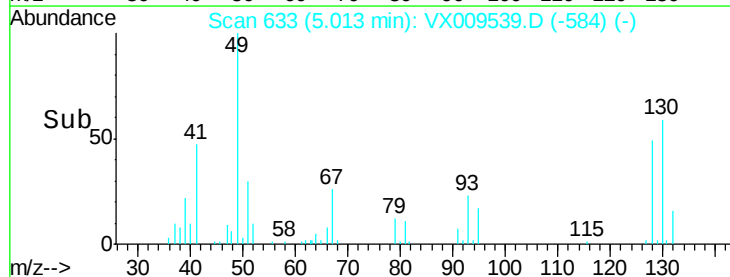
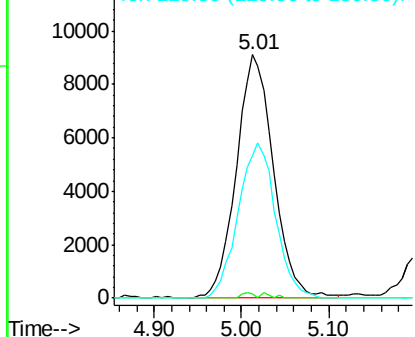


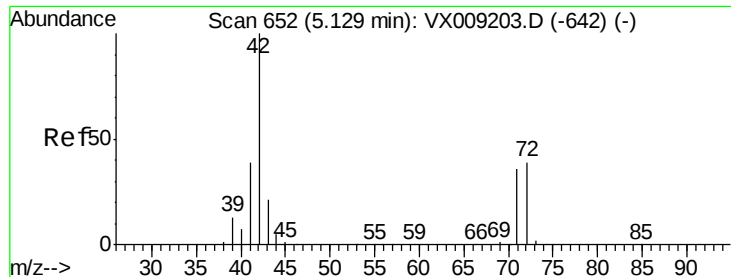
Abundance

Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





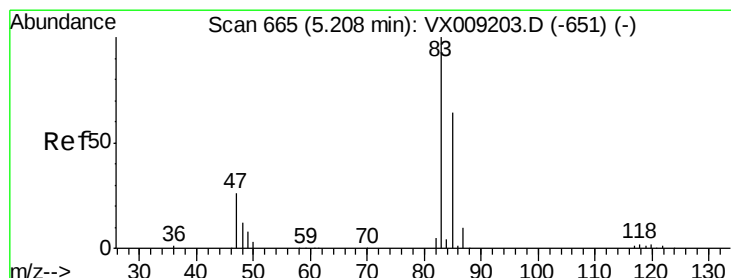
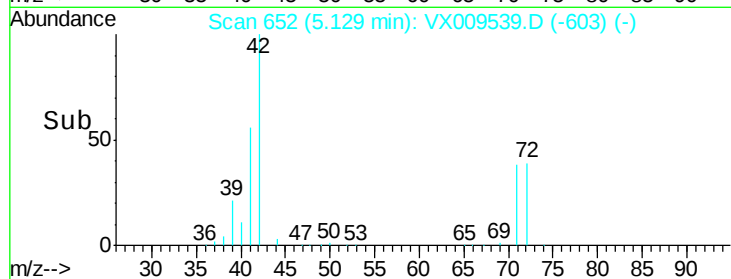
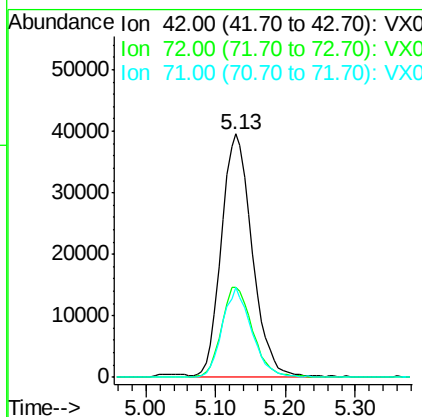
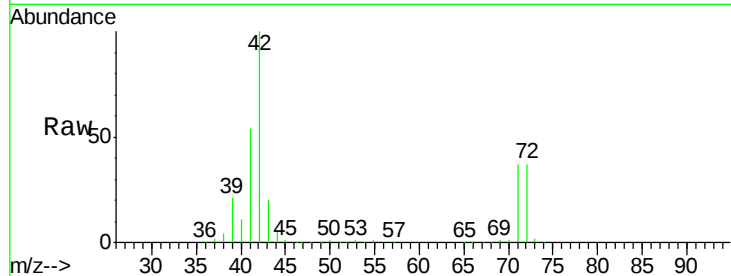
#29
Tetrahydrofuran
Concen: 102.113 ug/l
RT: 5.13 min Scan# 652
Delta R.T. -0.00 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0513WBSD01

Tot Ion	Ion	Ratio	Lower	Upper
42	100			
72	38.1	30.4	45.6	
71	35.2	28.6	43.0	

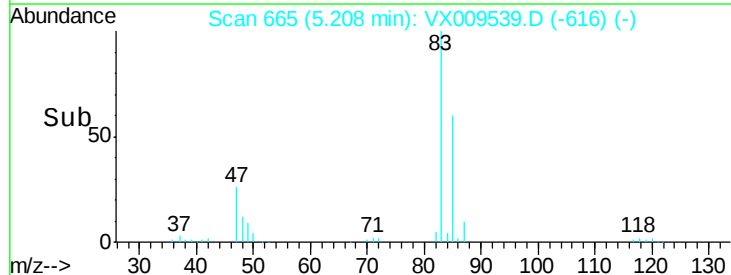
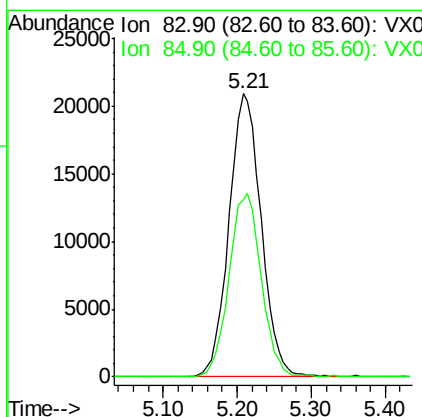
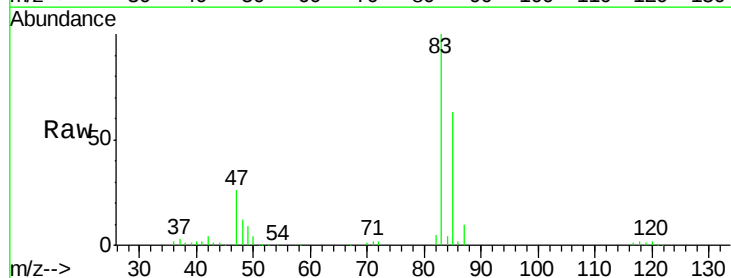
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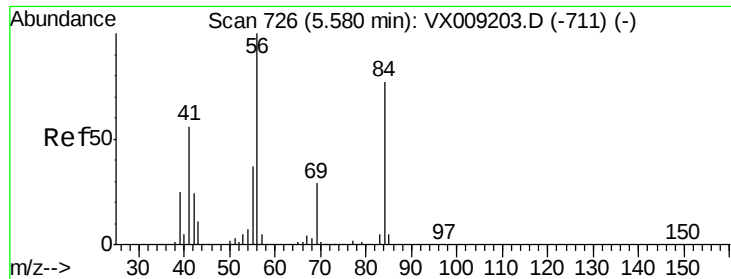
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#30
Chloroform
Concen: 20.033 ug/l
RT: 5.21 min Scan# 665
Delta R.T. -0.00 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Tgt Ion	Ion	Ratio	Lower	Upper
83	100			
85	62.6	51.5	77.3	





#31

Cyclohexane

Concen: 20.382 ug/l

RT: 5.58 min Scan# 726

Delta R.T. -0.00 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

Instrument :

MSVOA_X

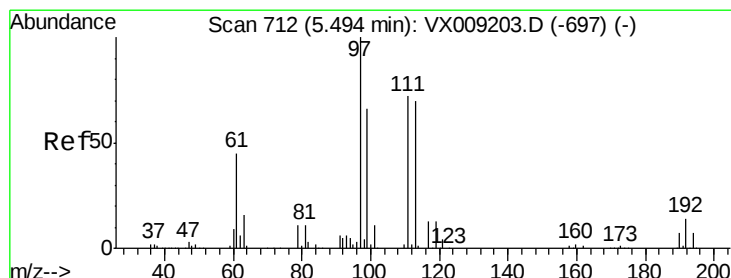
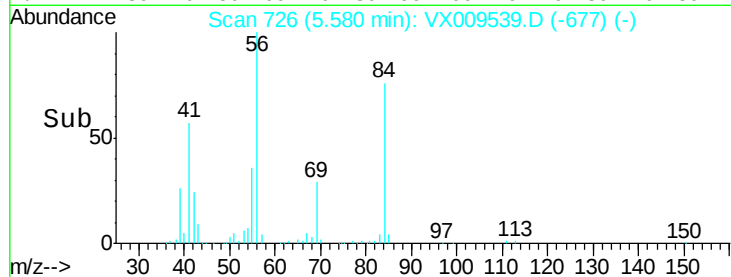
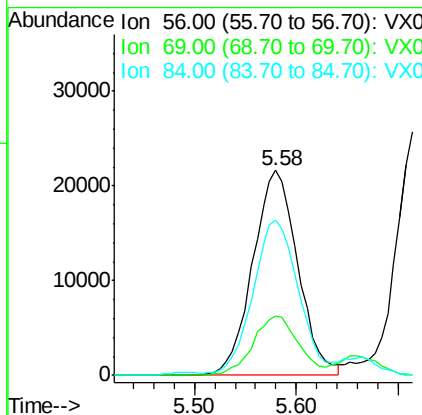
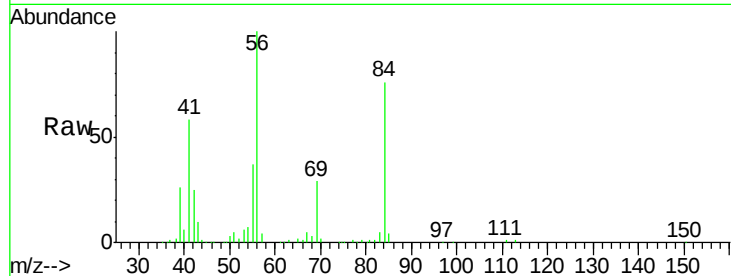
ClientSampleId :

VX0513WBSD01

Tot Ion:	56	Resp:	66239
Ion Ratio	Lower	Upper	
56	100		
69	28.8	23.4	35.0
84	74.1	61.9	92.9

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#32

1,1,1-Trichloroethane

Concen: 19.788 ug/l

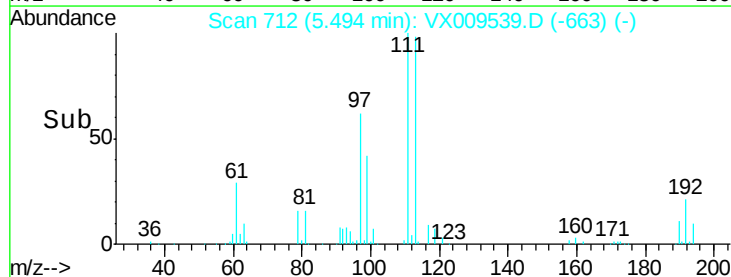
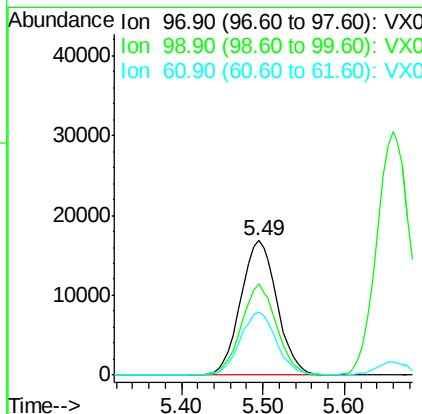
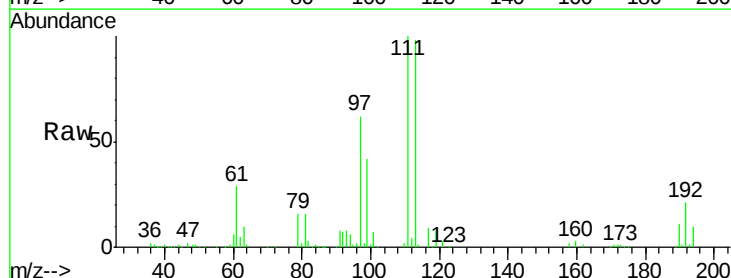
RT: 5.49 min Scan# 712

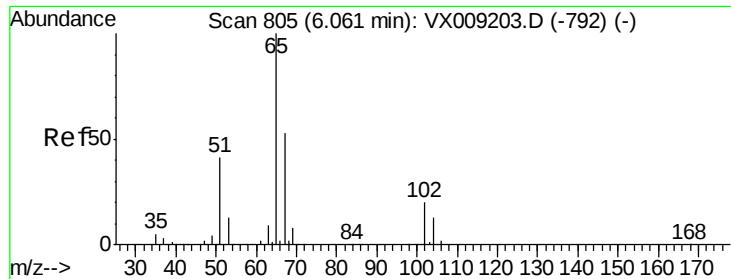
Delta R.T. -0.00 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

Tgt Ion:	97	Resp:	52043
Ion Ratio	Lower	Upper	
97	100		
99	65.4	51.8	77.8
61	47.1	37.8	56.8





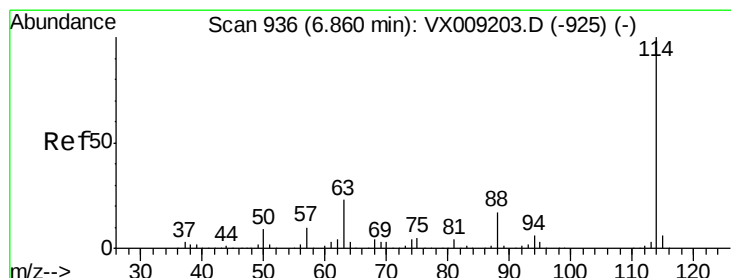
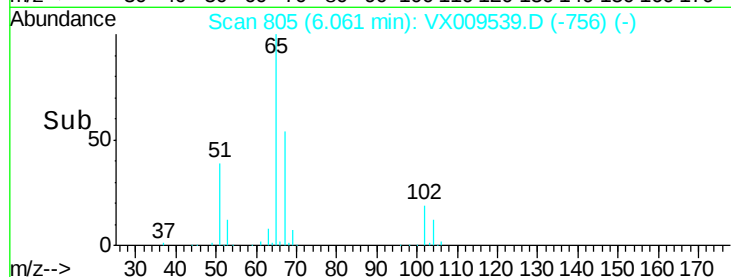
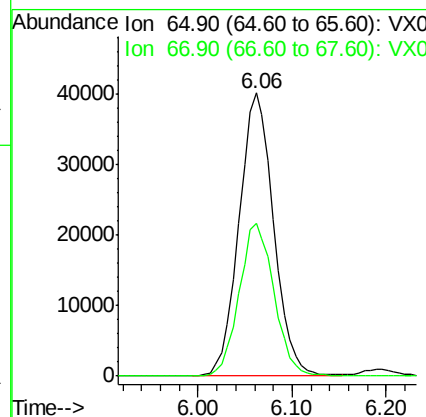
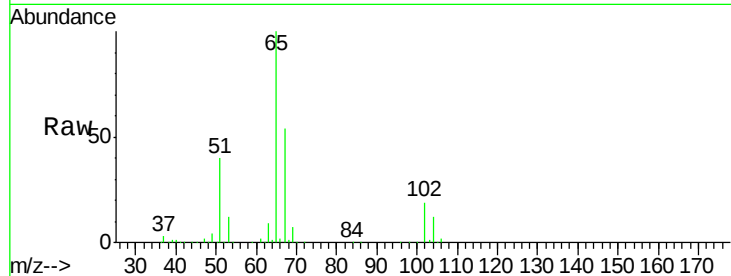
#33
 1,2-Dichloroethane-d4
 Concen: 46.751 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX009539.D
 Acq: 13 May 2019 13:35

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0513WBSD01

Tot Ion	Ratio	Lower	Upper
65	100		
67	54.5	0.0	106.6

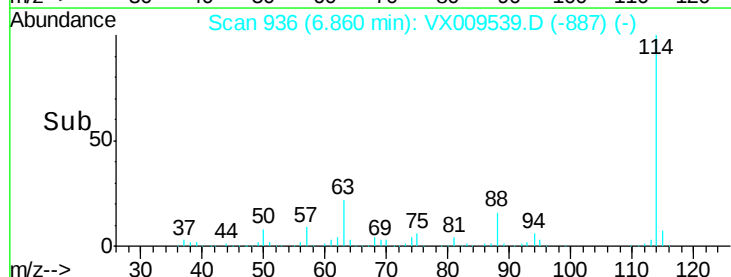
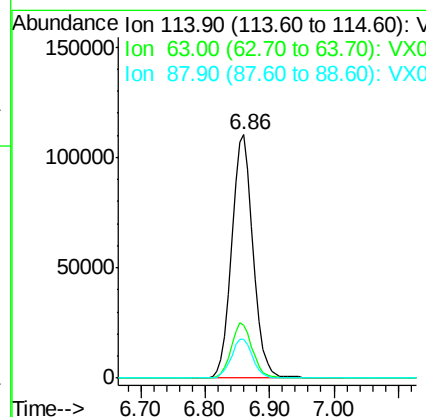
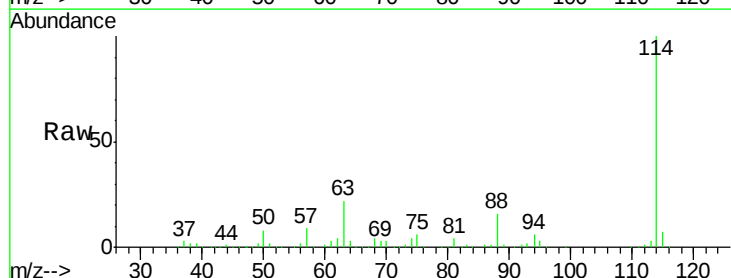
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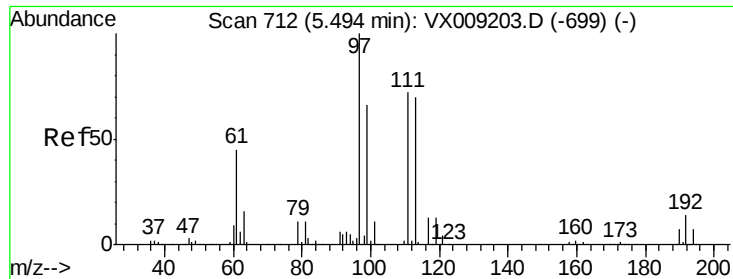
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX009539.D
 Acq: 13 May 2019 13:35

Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	45.6
88	15.9	0.0	33.2





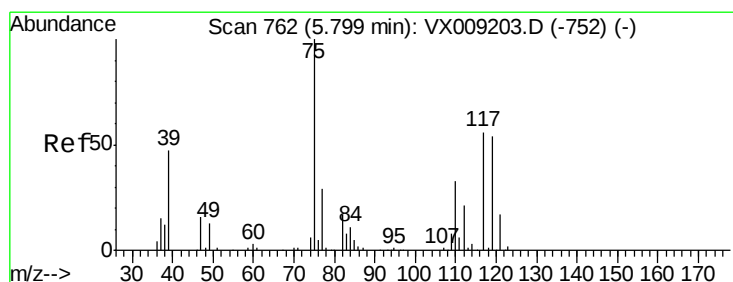
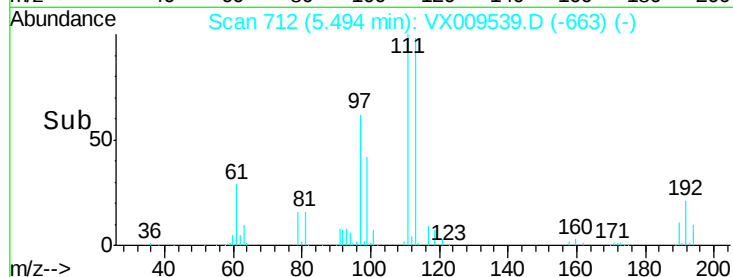
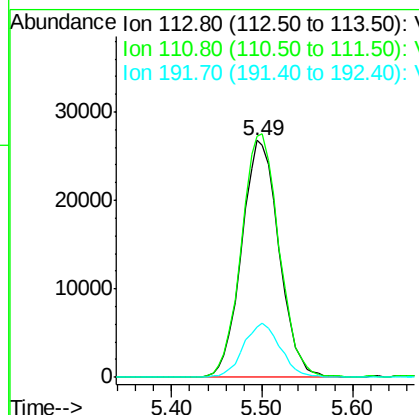
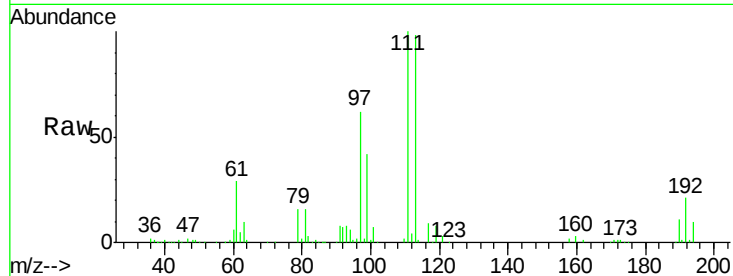
#35
 Dibromofluoromethane
 Concen: 47.322 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. -0.00 min
 Lab File: VX009539.D
 Acq: 13 May 2019 13:35

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0513WBSD01

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.8	124.2
192	22.4	17.0	25.6

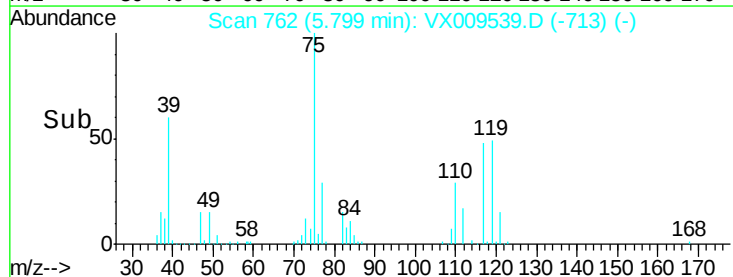
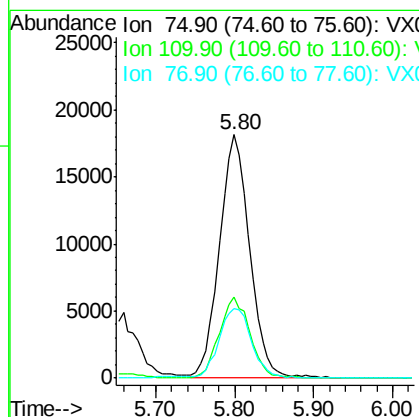
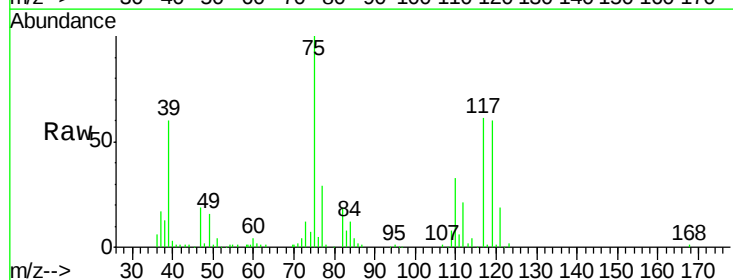
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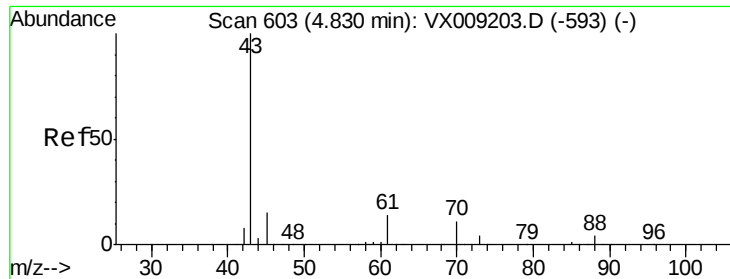
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#36
 1,1-Dichloropropene
 Concen: 20.229 ug/l
 RT: 5.80 min Scan# 762
 Delta R.T. -0.00 min
 Lab File: VX009539.D
 Acq: 13 May 2019 13:35

Tgt Ion	Ratio	Lower	Upper
75	100		
110	33.9	16.9	50.6
77	30.9	24.8	37.2





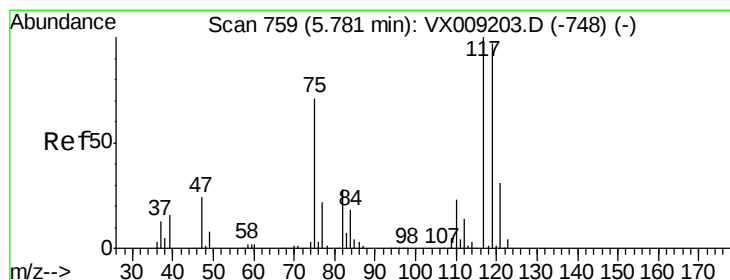
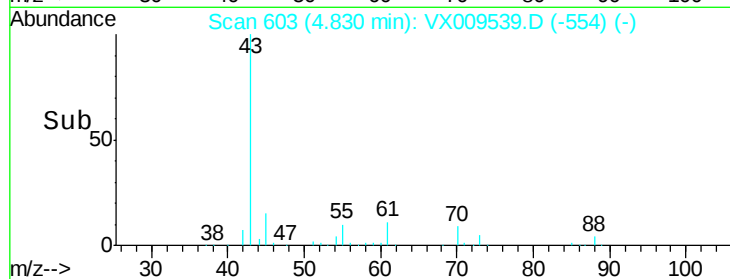
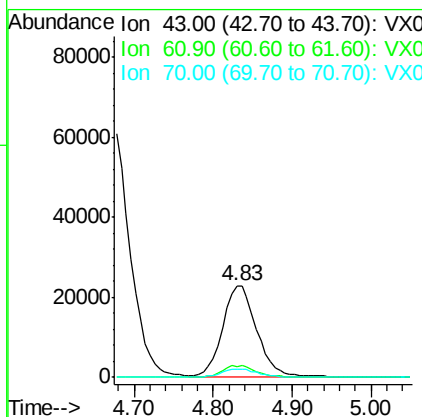
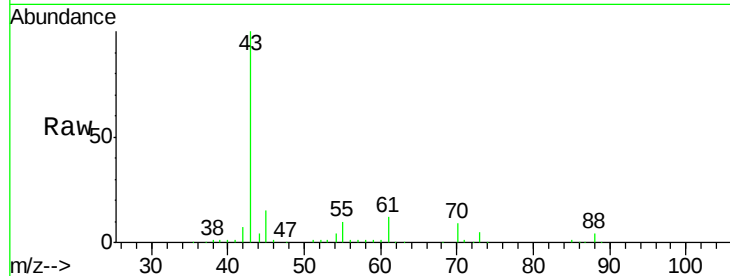
#37
Ethyl Acetate
Concen: 20.457 ug/l
RT: 4.83 min Scan# 603
Delta R.T. -0.00 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0513WBSD01

Tot Ion	43	Resp	68247
Ion Ratio	100	Lower	Upper
43	100		
61	13.3	10.5	15.7
70	10.0	7.9	11.9

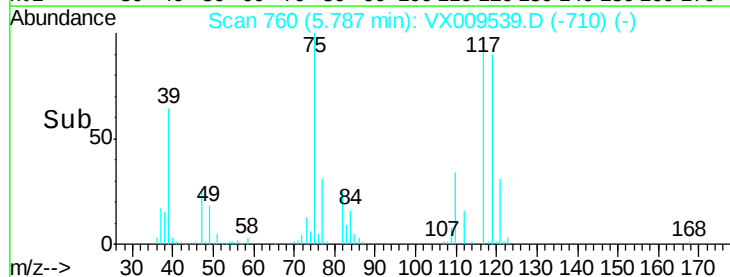
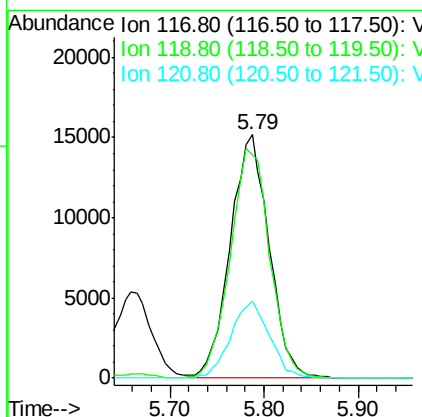
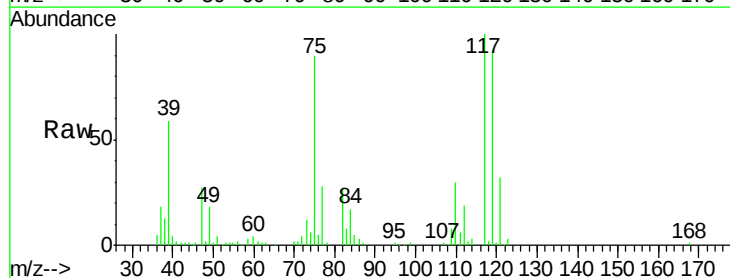
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#38
Carbon Tetrachloride
Concen: 20.014 ug/l
RT: 5.79 min Scan# 760
Delta R.T. 0.01 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Tgt Ion	117	Resp	43539
Ion Ratio	100	Lower	Upper
117	100		
119	91.7	77.5	116.3
121	31.9	24.7	37.1





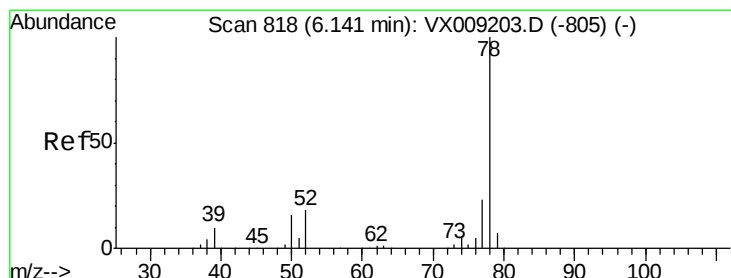
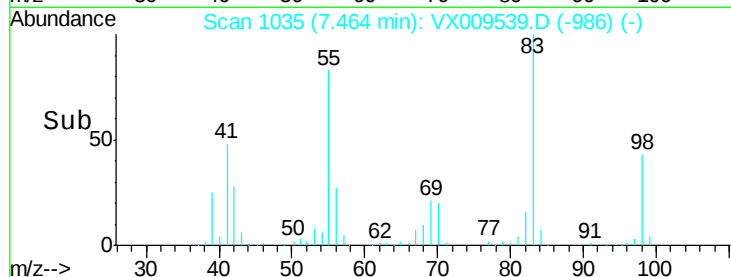
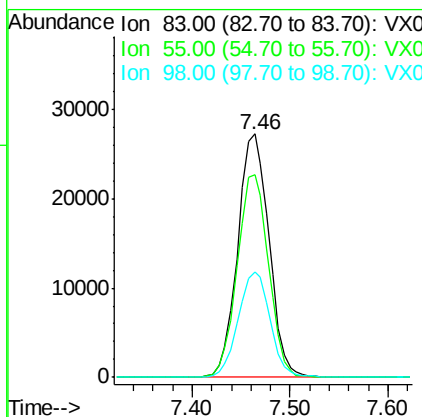
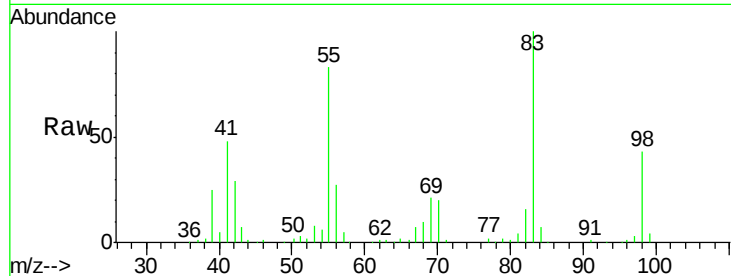
#39
Methvlcvclohexane
Concen: 20.533 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. -0.00 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0513WBSD01

Tot Ion	83	Resp	60379
Ion	Ratio	Lower	Upper
83	100		
55	83.3	67.7	101.5
98	43.1	35.5	53.3

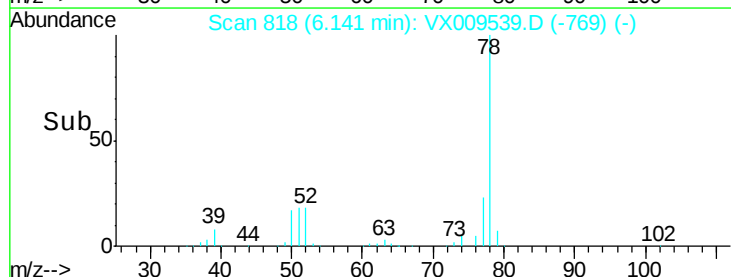
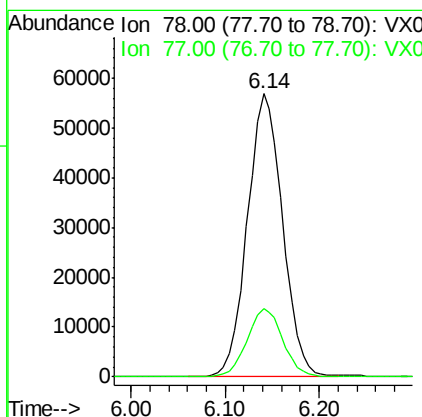
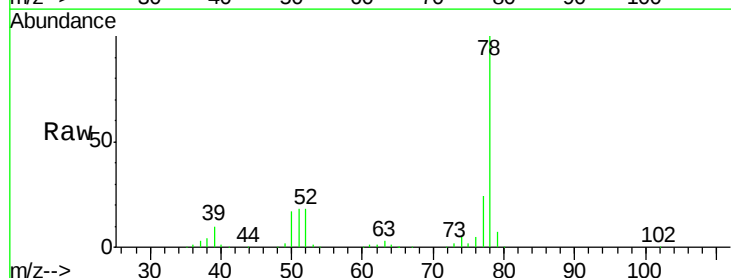
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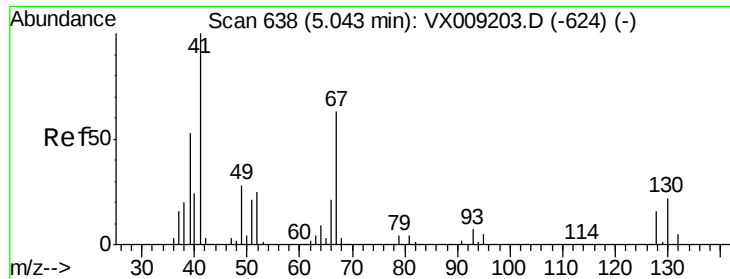
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#40
Benzene
Concen: 20.086 ug/l
RT: 6.14 min Scan# 818
Delta R.T. -0.00 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Tgt Ion	78	Resp	148838
Ion	Ratio	Lower	Upper
78	100		
77	24.1	18.8	28.2





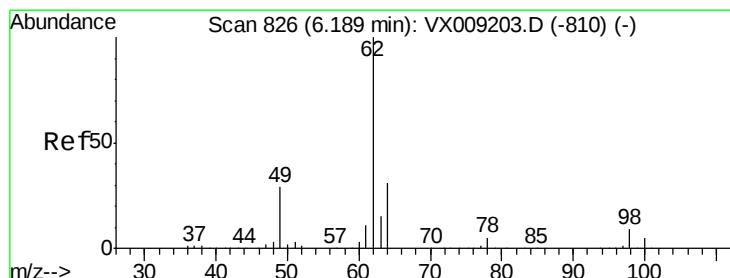
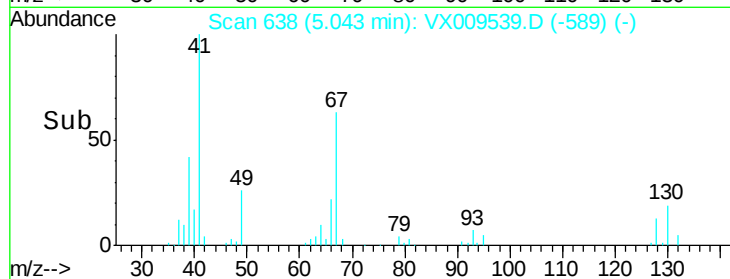
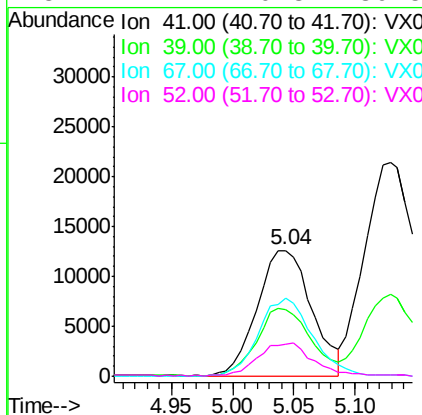
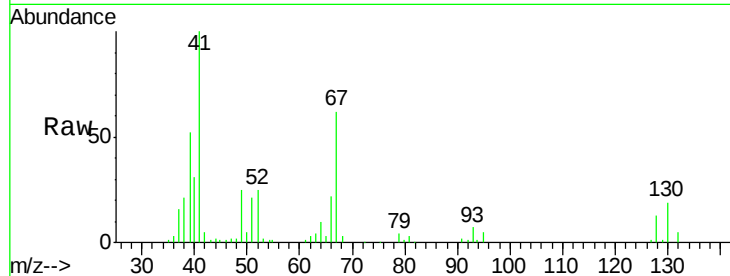
#41
Methacrylonitrile
Concen: 19.554 ug/l
RT: 5.04 min Scan# 638
Delta R.T. -0.00 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0513WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		38831		
39	54.5	42.0	63.0		
67	62.5	49.8	74.8		
52	27.4	20.3	30.5		

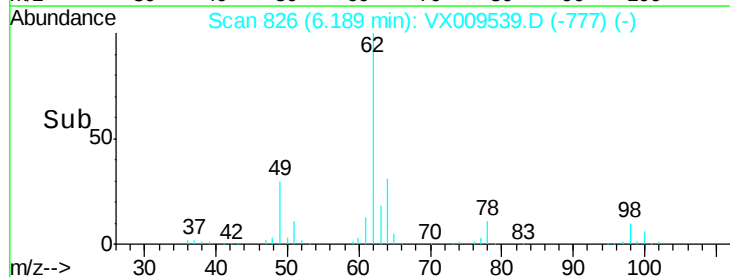
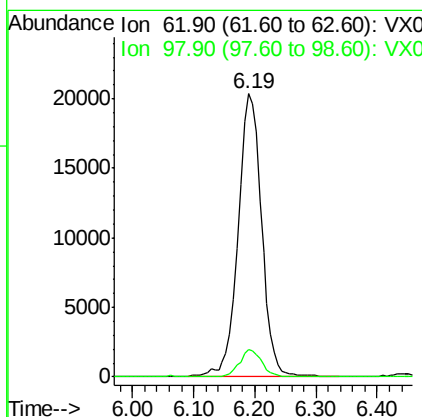
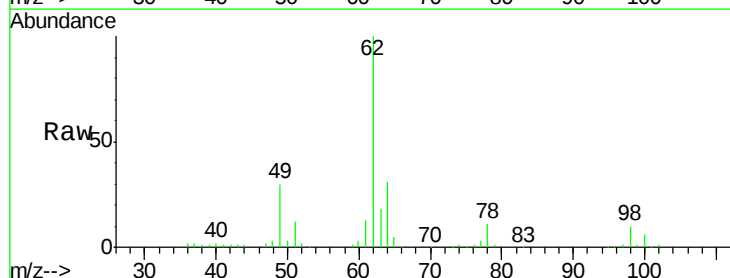
Manual Integrations
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#42
1,2-Dichloroethane
Concen: 20.322 ug/l
RT: 6.19 min Scan# 826
Delta R.T. -0.00 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		54018		
98	9.1	0.0	18.2		





#43

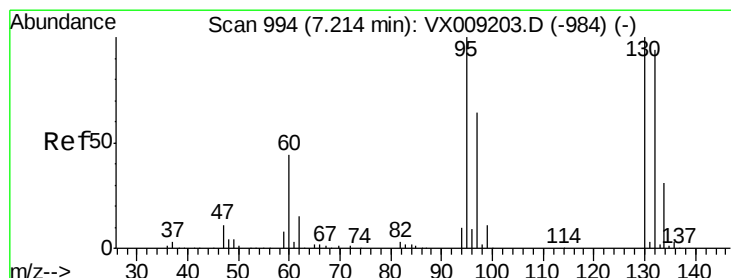
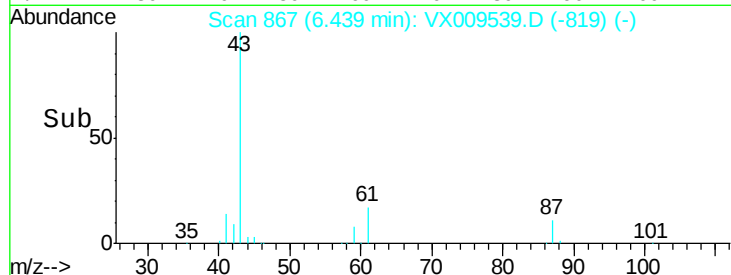
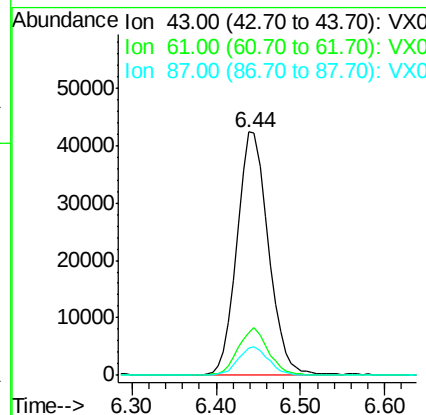
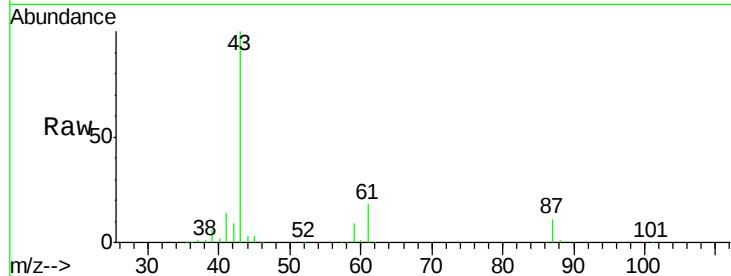
Isopropyl Acetate
 Concen: 19.930 ug/l
 RT: 6.44 min Scan# 867
 Delta R.T. -0.01 min
 Lab File: VX009539.D
 Acq: 13 May 2019 13:35

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0513WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	19.1	15.1	22.7
87	11.4	9.0	13.6

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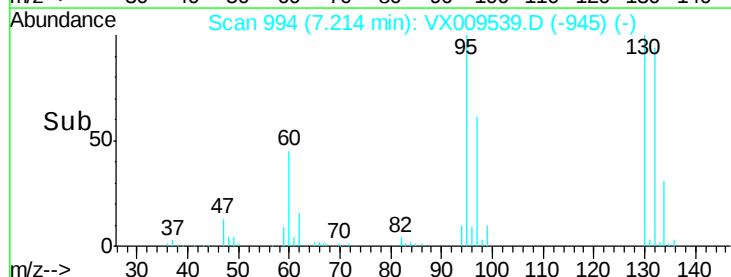
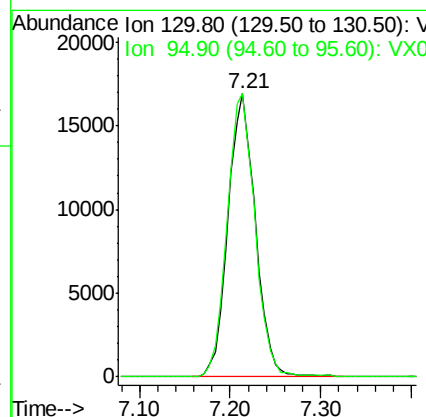
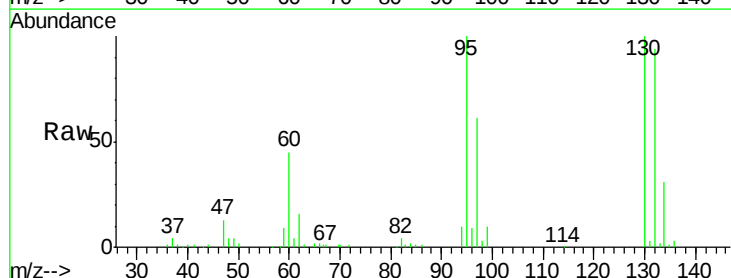
MMDadoda
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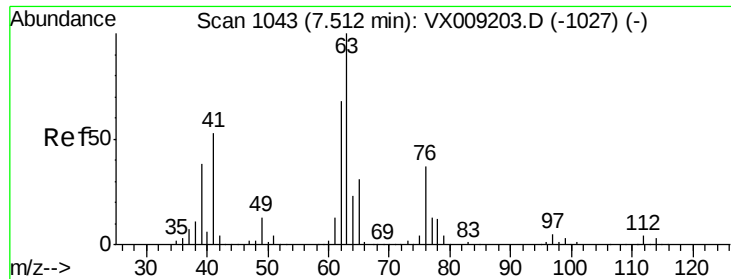


#44

Trichloroethene
 Concen: 19.823 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. -0.00 min
 Lab File: VX009539.D
 Acq: 13 May 2019 13:35

Tgt Ion	Ratio	Lower	Upper
130	100		
95	100.0	0.0	199.2





#45

1,2-Dichloropropane

Concen: 20.333 ug/l

RT: 7.51 min Scan# 1043

Delta R.T. -0.00 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

Instrument :

MSVOA_X

ClientSampleId :

VX0513WBSD01

Tot Ion: 63 Resp: 42664

Ion Ratio Lower Upper

63 100

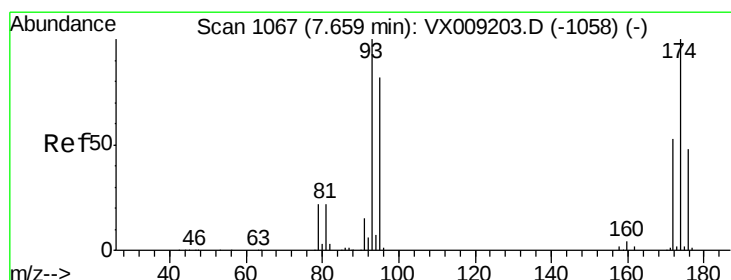
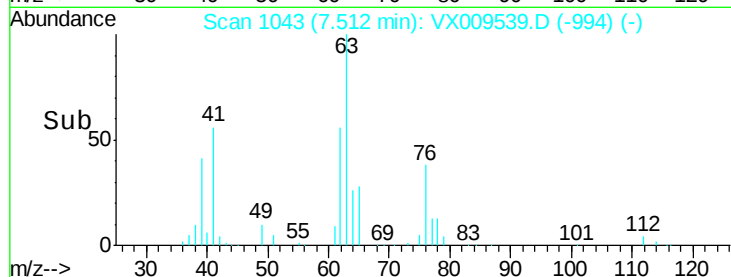
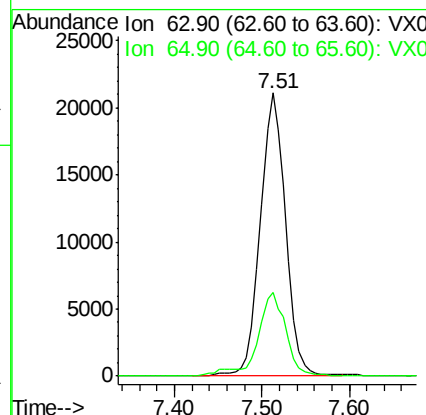
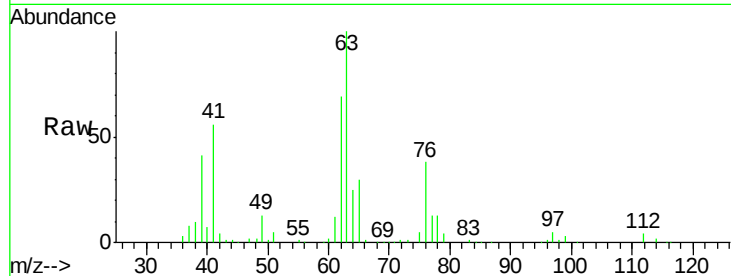
65 29.7 25.0 37.6

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#46

Dibromomethane

Concen: 19.607 ug/l

RT: 7.66 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

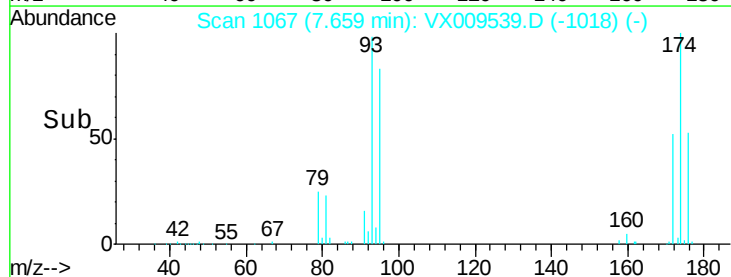
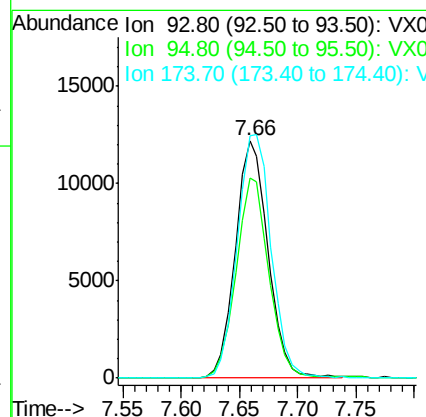
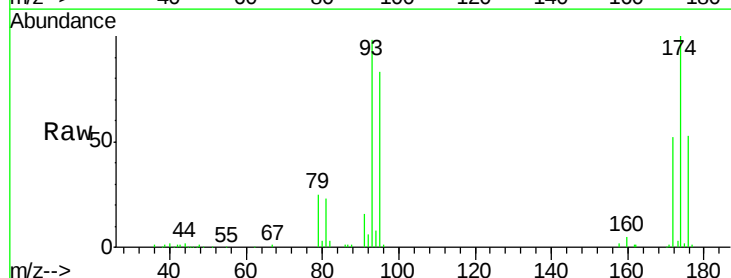
Tgt Ion: 93 Resp: 23891

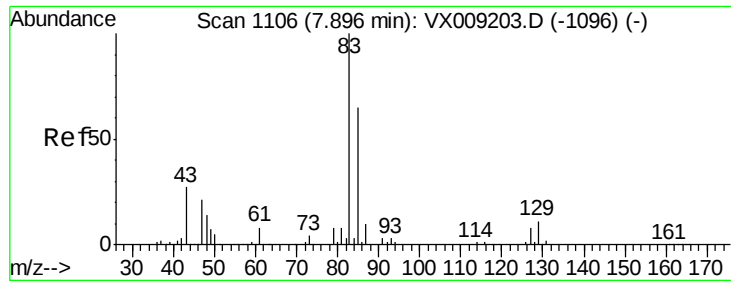
Ion Ratio Lower Upper

93 100

95 84.1 66.5 99.7

174 106.8 82.1 123.1





#47

Bromodichloromethane

Concen: 20.013 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

Instrument :

MSVOA_X

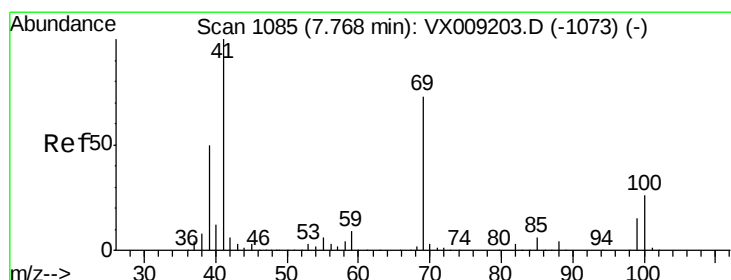
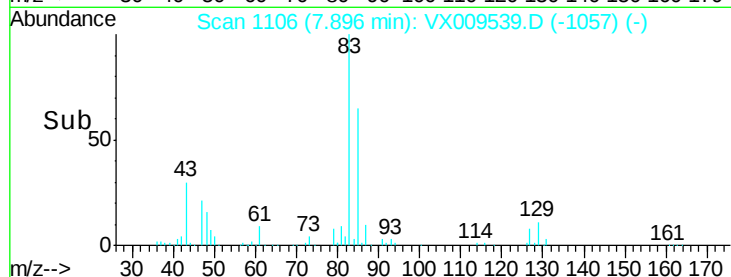
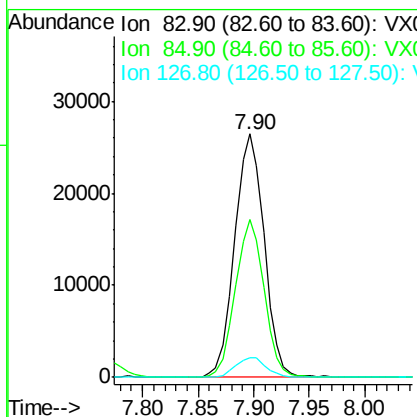
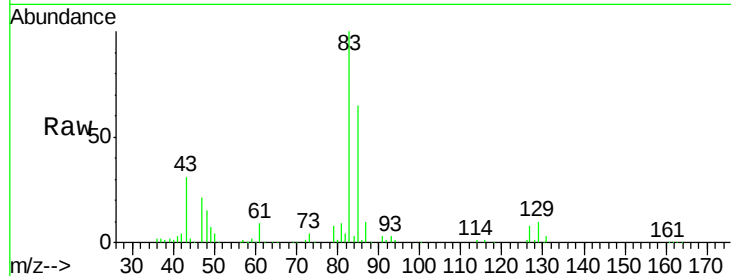
ClientSampleId :

VX0513WBSD01

Tot Ion:	83	Resp:	48642
Ion Ratio	Lower	Upper	
83	100		
85	64.9	52.4	78.6
127	8.1	6.6	10.0

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#48

Methyl methacrylate

Concen: 20.479 ug/l

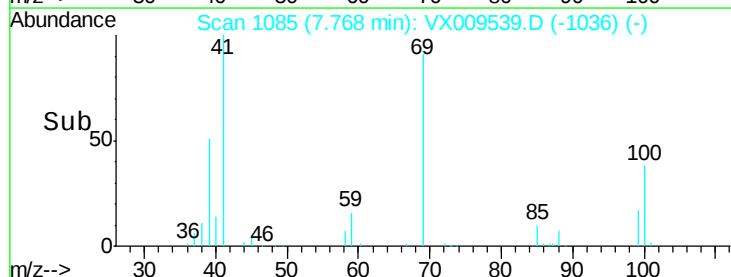
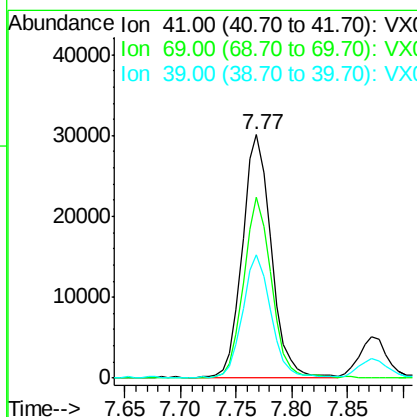
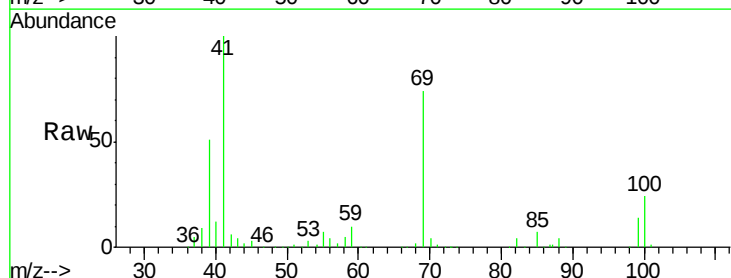
RT: 7.77 min Scan# 1085

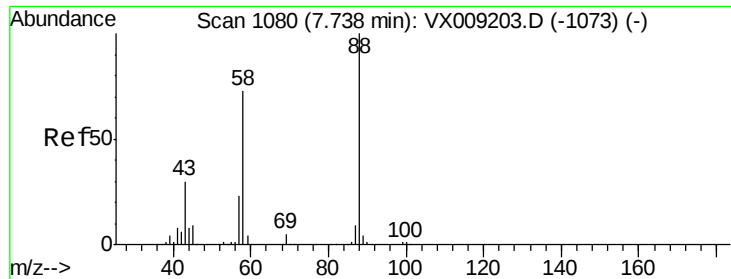
Delta R.T. -0.00 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

Tgt Ion:	41	Resp:	54217
Ion Ratio	Lower	Upper	
41	100		
69	71.9	59.1	88.7
39	49.4	40.4	60.6





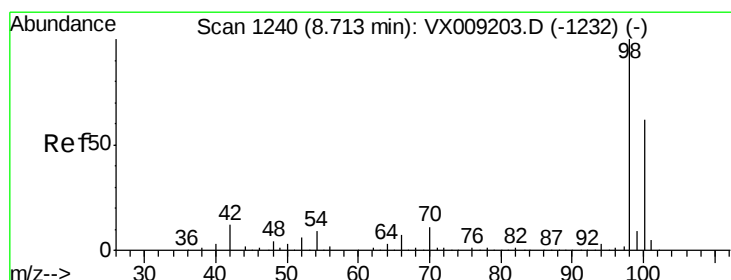
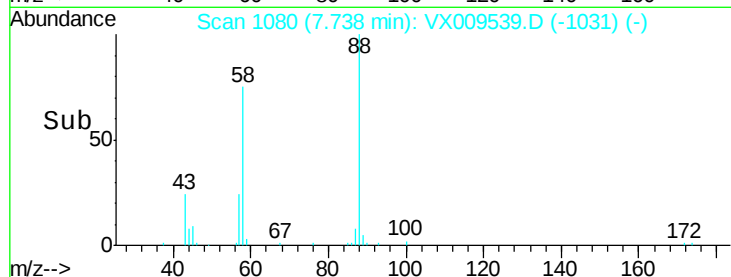
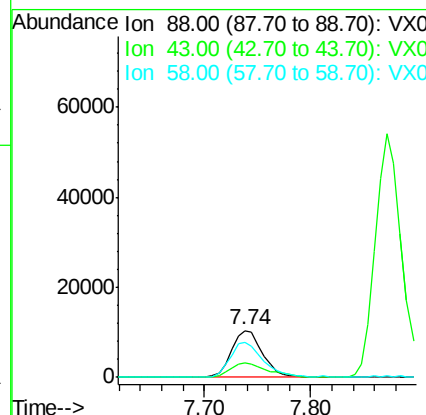
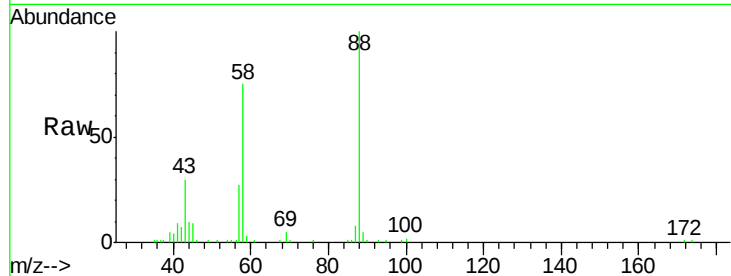
#49
1,4-Dioxane
Concen: 401.603 ug/l
RT: 7.74 min Scan# 1080
Delta R.T. -0.00 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0513WBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	36.9	28.6	42.8
58	79.4	61.7	92.5

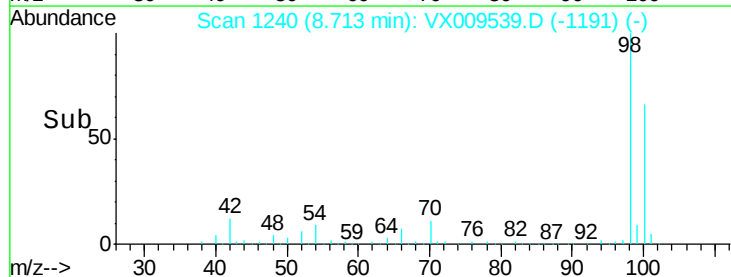
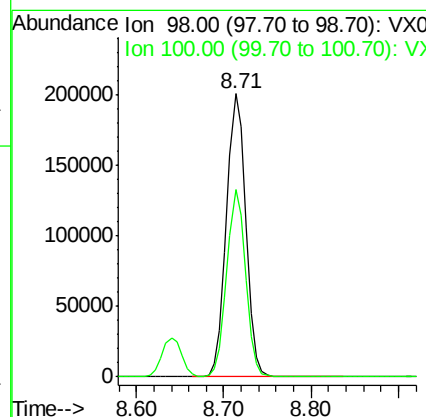
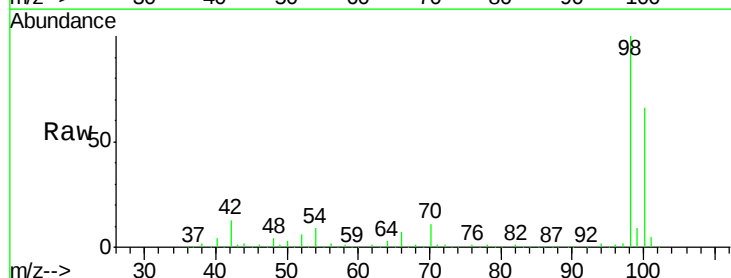
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#50
Toluene-d8
Concen: 47.065 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.2	76.8





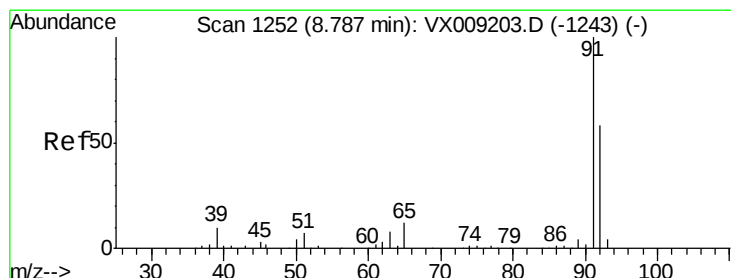
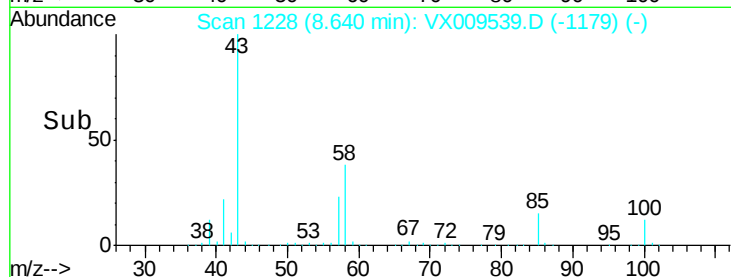
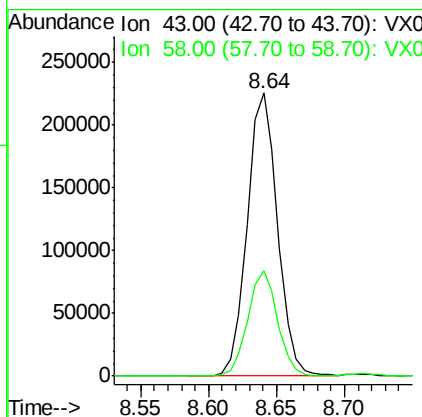
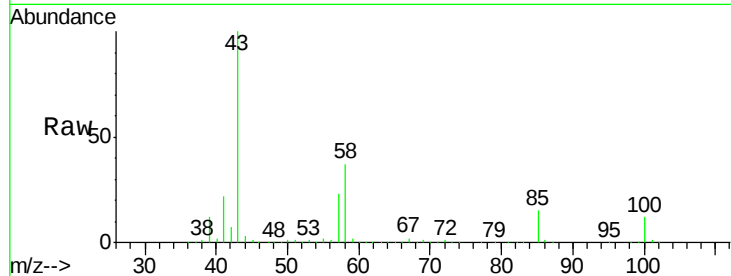
#51
 4-Methyl-2-Pentanone
 Concen: 100.917 ug/l
 RT: 8.64 min Scan# 1228
 Delta R.T. -0.00 min
 Lab File: VX009539.D
 Acq: 13 May 2019 13:35

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0513WBSD01

Tot Ion	43	58	Resp	Lower	Upper
351988	100	36.7		29.5	44.3

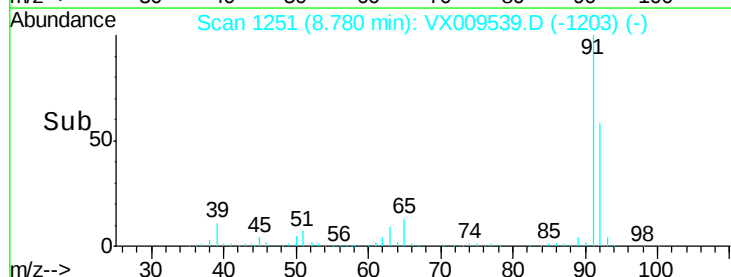
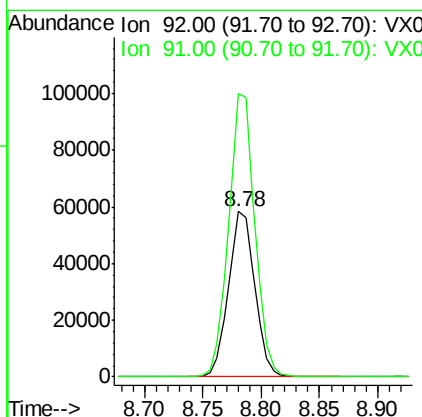
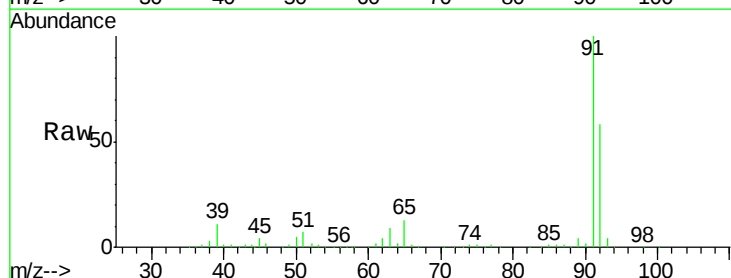
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#52
 Toluene
 Concen: 20.442 ug/l
 RT: 8.78 min Scan# 1251
 Delta R.T. -0.01 min
 Lab File: VX009539.D
 Acq: 13 May 2019 13:35

Tgt Ion	92	91	Resp	Lower	Upper
92081	100	170.6		138.8	208.2





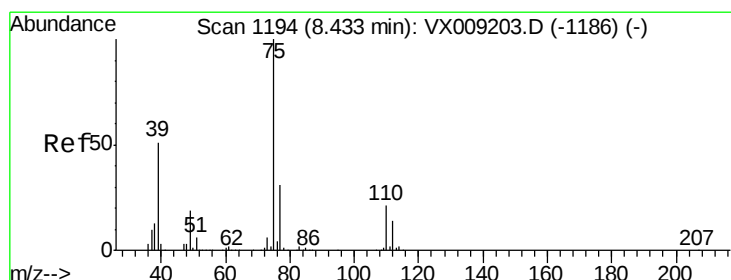
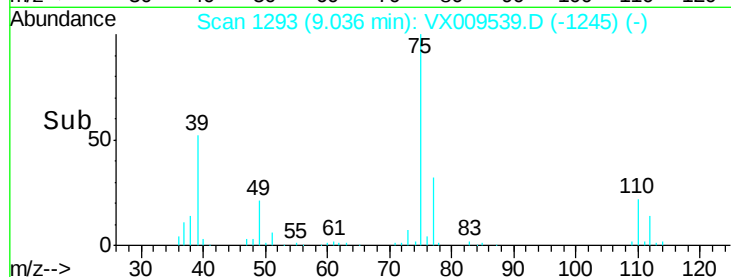
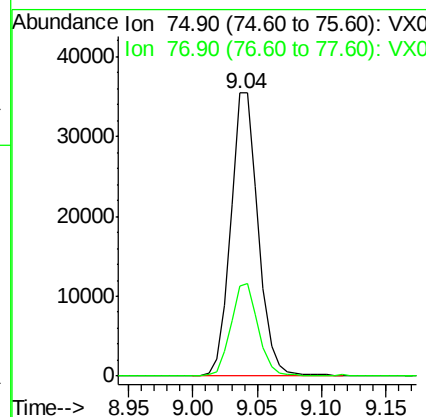
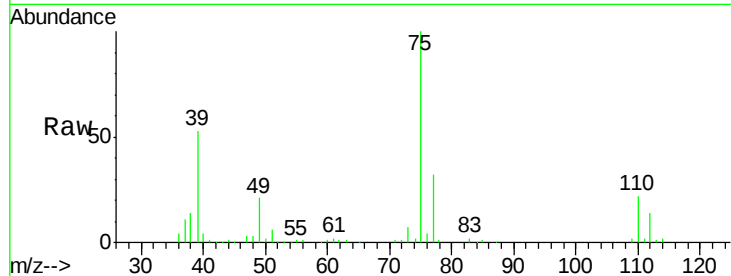
#53
 t-1,3-Dichloropropene
 Concen: 19.383 ug/l
 RT: 9.04 min Scan# 1293
 Delta R.T. -0.01 min
 Lab File: VX009539.D
 Acq: 13 May 2019 13:35

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0513WBSD01

Tot Ion: 75 Resp: 53189
 Ion Ratio Lower Upper
 75 100
 77 31.8 25.0 37.6

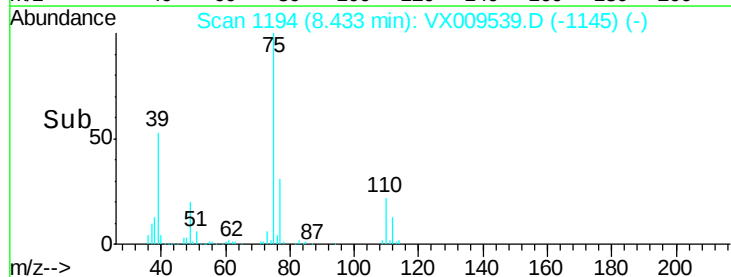
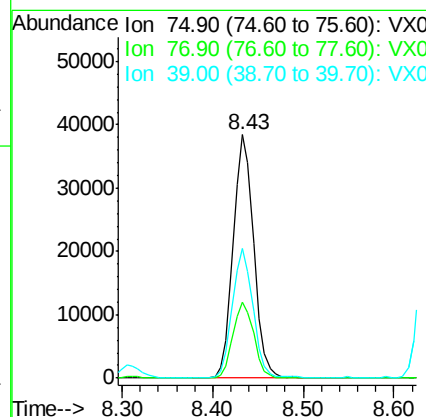
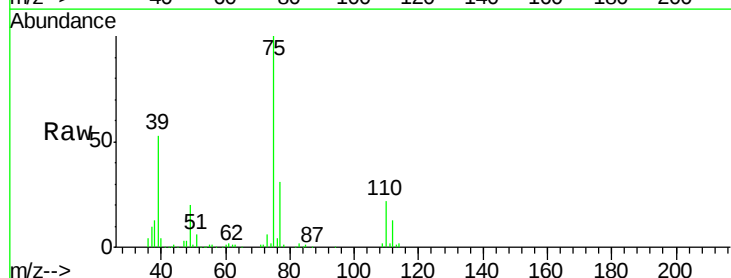
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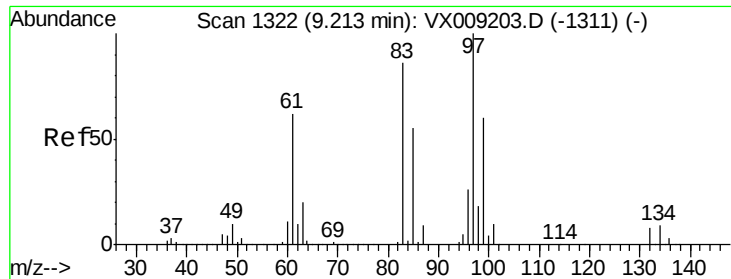
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#54
 cis-1,3-Dichloropropene
 Concen: 19.952 ug/l
 RT: 8.43 min Scan# 1194
 Delta R.T. -0.00 min
 Lab File: VX009539.D
 Acq: 13 May 2019 13:35

Tgt Ion: 75 Resp: 60602
 Ion Ratio Lower Upper
 75 100
 77 31.2 24.6 36.8
 39 53.0 40.6 60.8





#55

1,1,2-Trichloroethane

Concen: 20.029 ug/l

RT: 9.21 min Scan# 1322

Delta R.T. -0.00 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

Instrument :

MSVOA_X

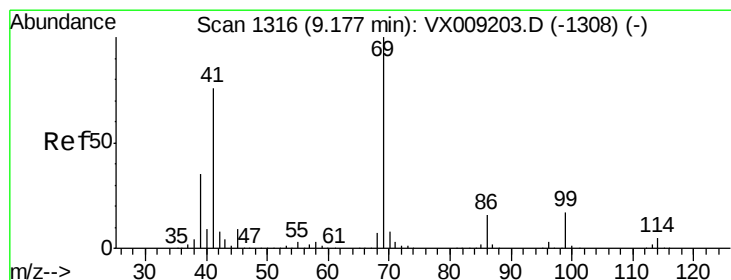
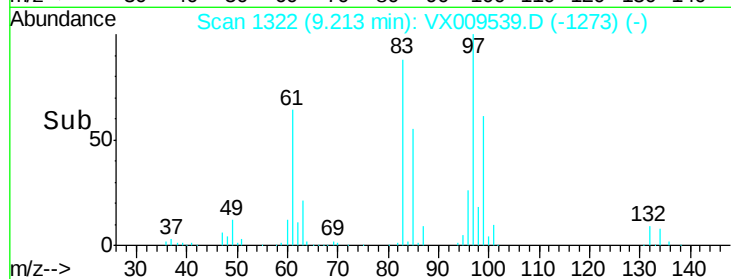
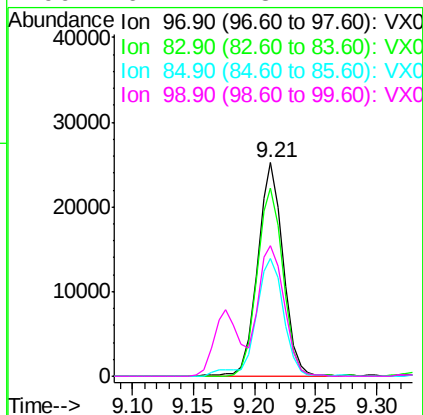
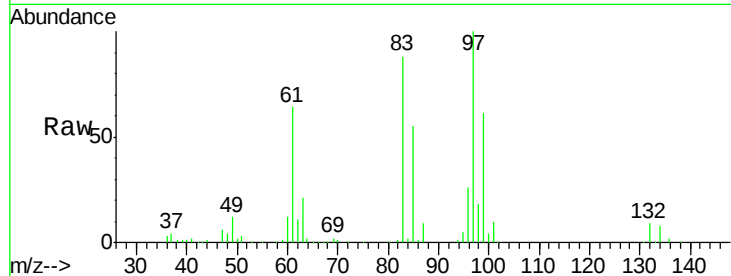
ClientSampleId :

VX0513WBSD01

Tot Ion:	97	Resp:	36808
Ion Ratio	Lower	Upper	
97	100		
83	87.8	68.9	103.3
85	55.2	43.8	65.6
99	61.1	48.2	72.2

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#56

Ethyl methacrylate

Concen: 19.924 ug/l

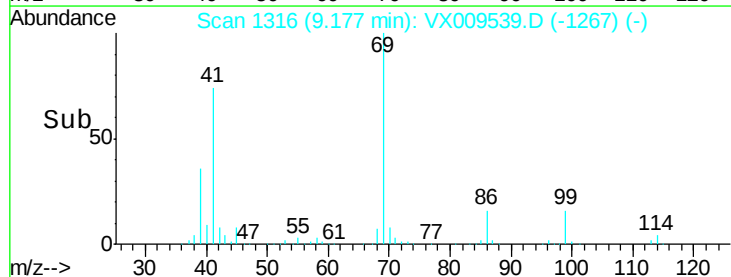
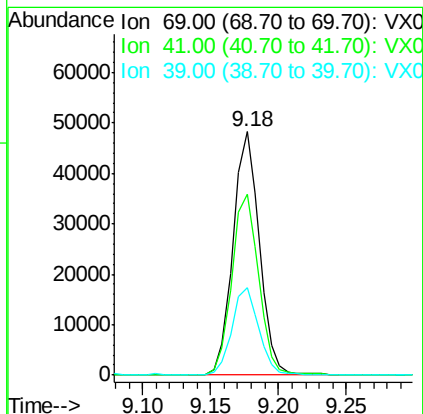
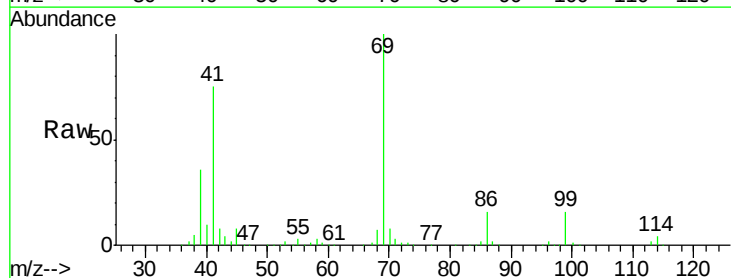
RT: 9.18 min Scan# 1316

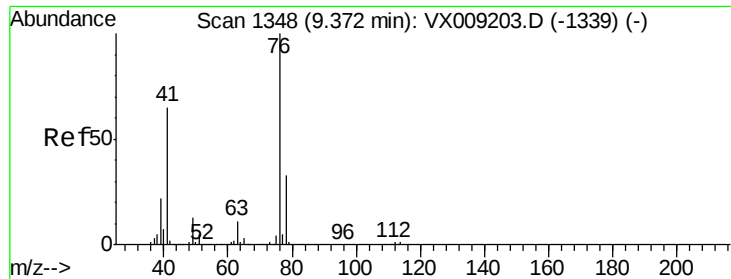
Delta R.T. -0.00 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

Tgt Ion:	69	Resp:	65359
Ion Ratio	Lower	Upper	
69	100		
41	76.7	60.6	90.8
39	37.3	28.2	42.4





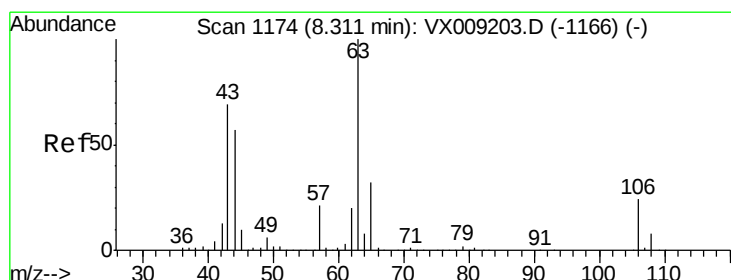
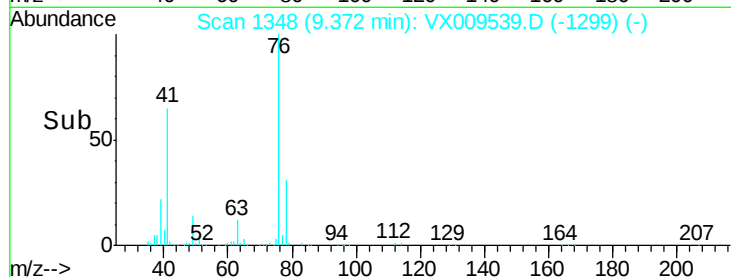
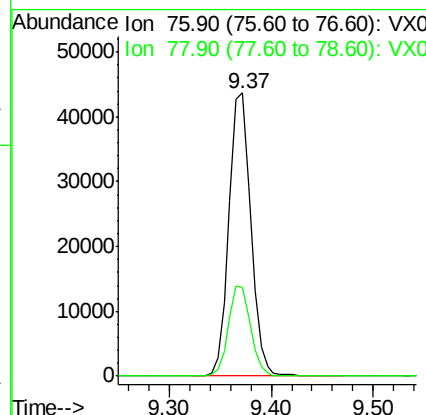
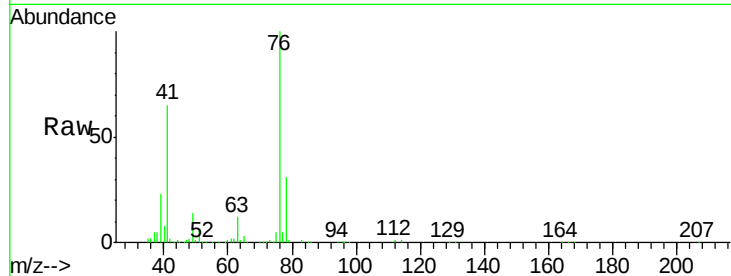
#57
 1,3-Dichloropropane
 Concen: 20.182 ug/l
 RT: 9.37 min Scan# 1348
 Delta R.T. -0.00 min
 Lab File: VX009539.D
 Acq: 13 May 2019 13:35

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0513WBSD01

Tot Ion: 76 Resp: 65265
 Ion Ratio Lower Upper
 76 100
 78 32.2 25.5 38.3

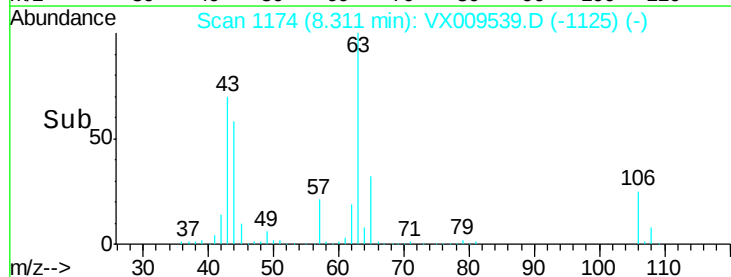
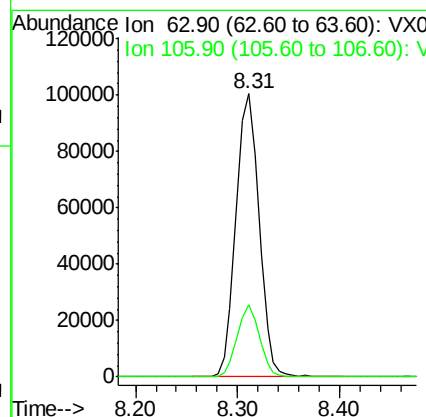
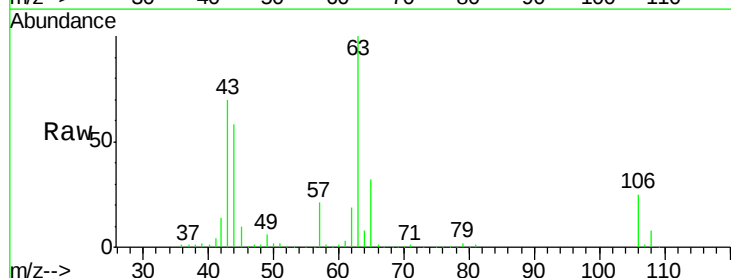
Manual Integrations
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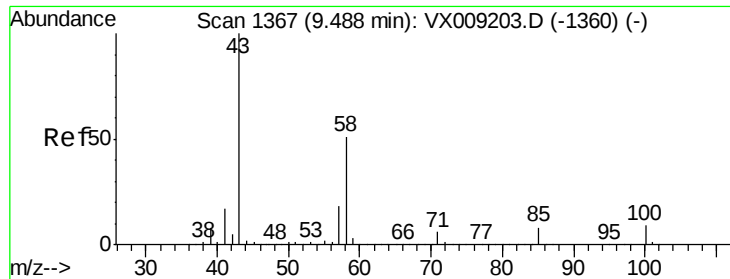
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#58
 2-Chloroethyl Vinyl ether
 Concen: 90.795 ug/l
 RT: 8.31 min Scan# 1174
 Delta R.T. -0.00 min
 Lab File: VX009539.D
 Acq: 13 May 2019 13:35

Tgt Ion: 63 Resp: 158005
 Ion Ratio Lower Upper
 63 100
 106 24.7 19.7 29.5





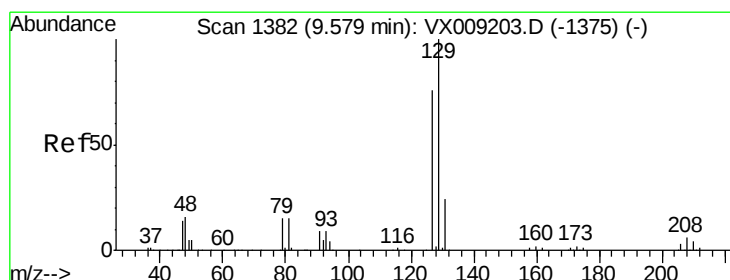
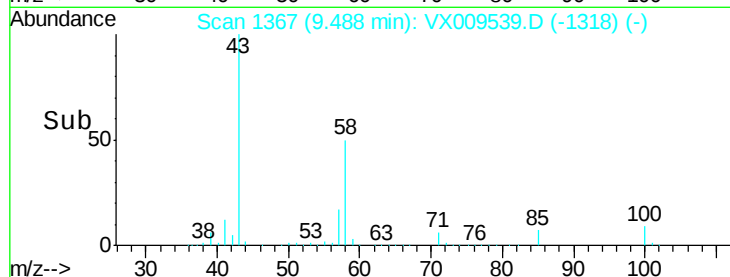
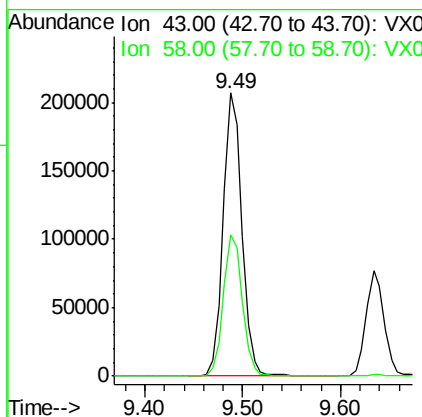
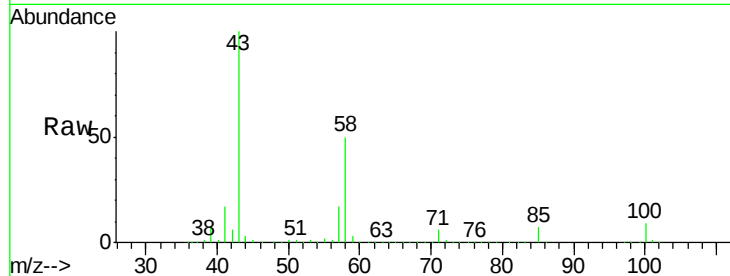
#59
2-Hexanone
Concen: 100.659 ug/l
RT: 9.49 min Scan# 1367
Delta R.T. -0.00 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0513WBSD01

Tot Ion: 43 Resp: 275740
Ion Ratio Lower Upper
43 100
58 51.0 25.9 77.7

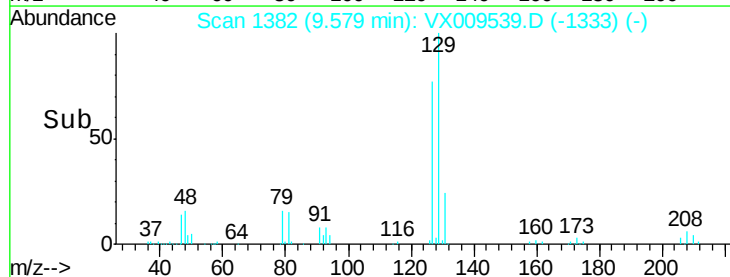
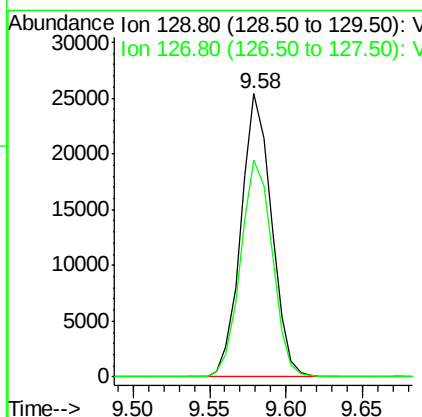
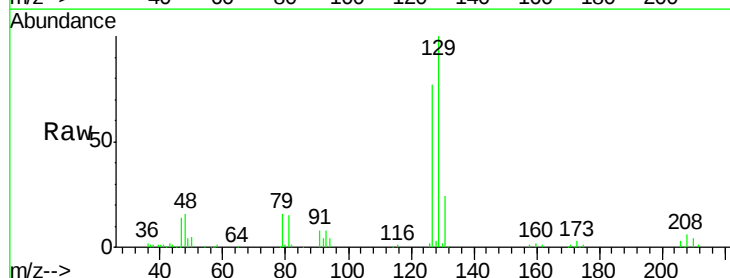
Manual Integrations
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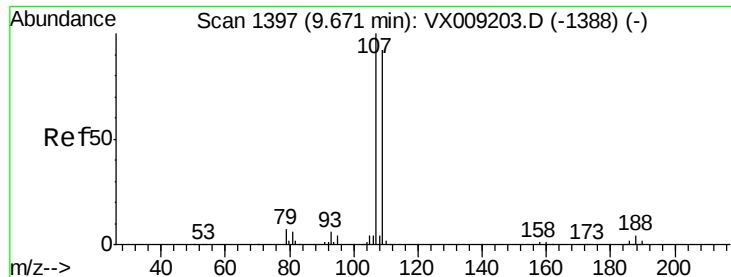
MMDadoda
5/14/2019 12:15:57 PM



#60
Dibromochloromethane
Concen: 19.665 ug/l
RT: 9.58 min Scan# 1382
Delta R.T. -0.00 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Tgt Ion: 129 Resp: 35296
Ion Ratio Lower Upper
129 100
127 79.1 38.4 115.1





#61

1,2-Dibromoethane

Concen: 20.458 ug/l

RT: 9.67 min Scan# 1397

Delta R.T. -0.00 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

Instrument :

MSVOA_X

ClientSampleId :

VX0513WBSD01

Tot Ion:107 Resp: 37950

Ion Ratio Lower Upper

107 100

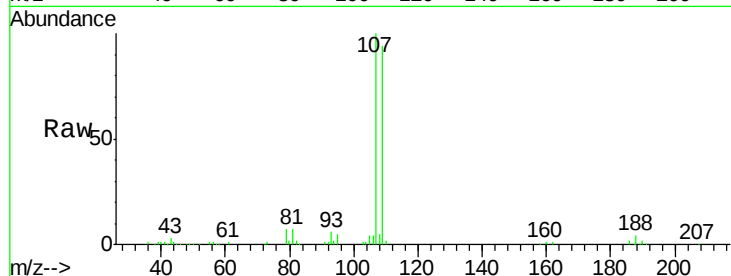
109 91.9 75.2 112.8

Manual Integrations

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

9.67

30000

25000

20000

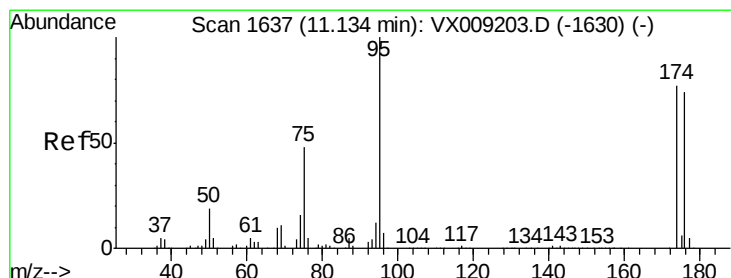
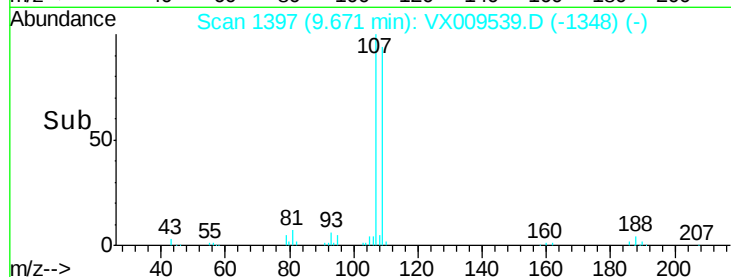
15000

10000

5000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 46.979 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

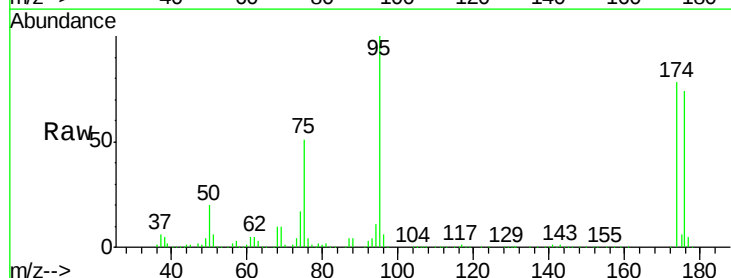
Tgt Ion: 95 Resp: 111626

Ion Ratio Lower Upper

95 100

174 81.9 0.0 161.6

176 79.6 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

120000

100000

80000

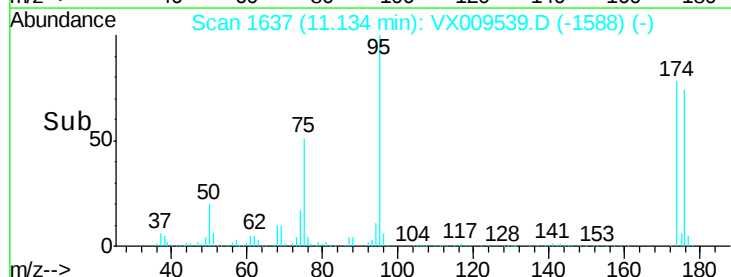
60000

40000

20000

0

Time-->





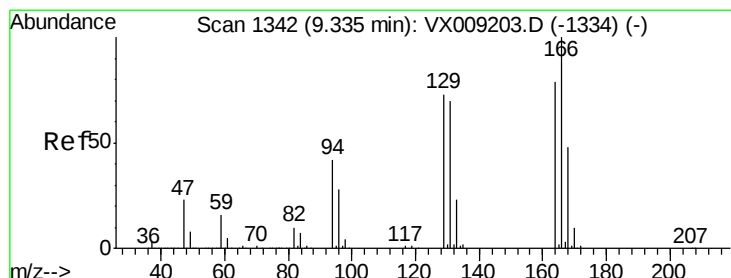
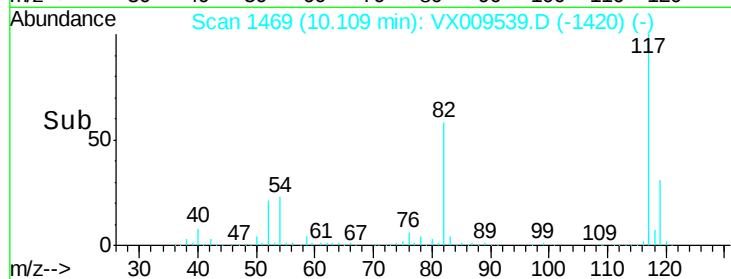
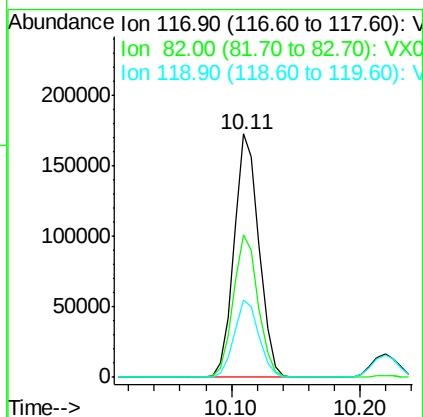
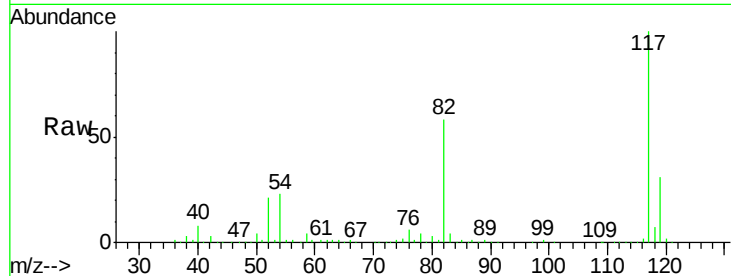
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0513WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	231815		
82	58.5	48.8	73.2	
119	31.5	25.8	38.6	

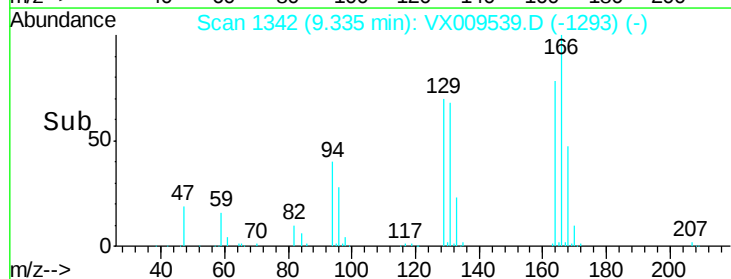
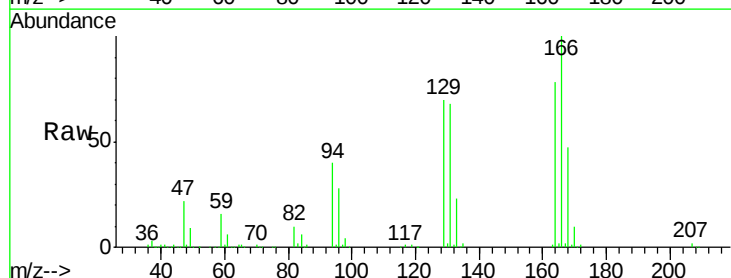
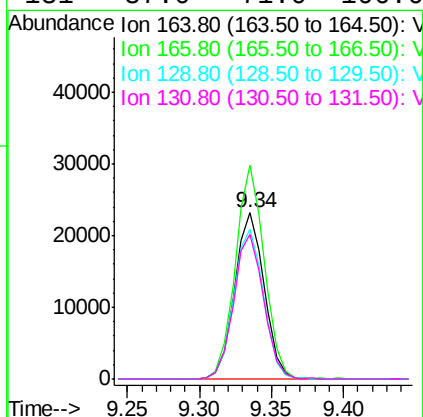
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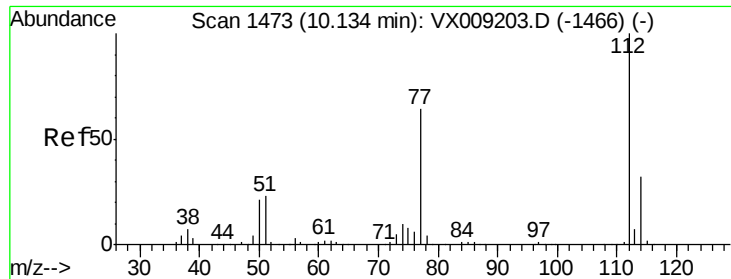
MMDadoda
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#64
Tetrachloroethene
Concen: 20.848 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	33151		
166	128.6	101.2	151.8	
129	90.5	74.3	111.5	
131	87.0	71.0	106.6	





#65

Chlorobenzene

Concen: 20.281 ug/l

RT: 10.14 min Scan# 1474

Delta R.T. 0.01 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

Instrument :

MSVOA_X

ClientSampleId :

VX0513WBSD01

Tot Ion:112 Resp: 94051

Ion Ratio Lower Upper

112 100

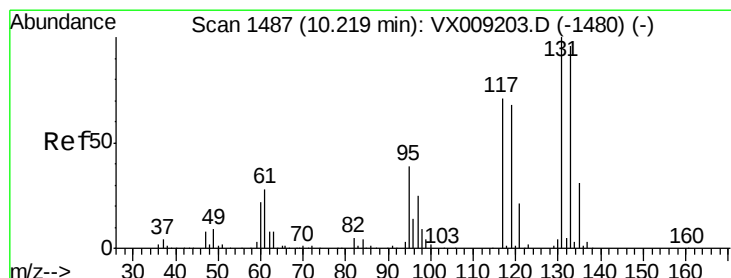
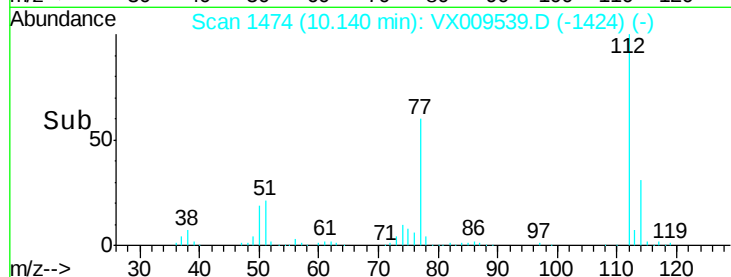
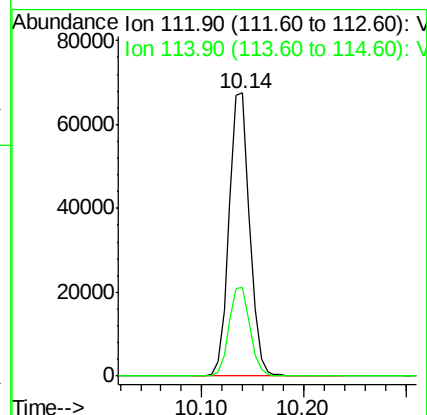
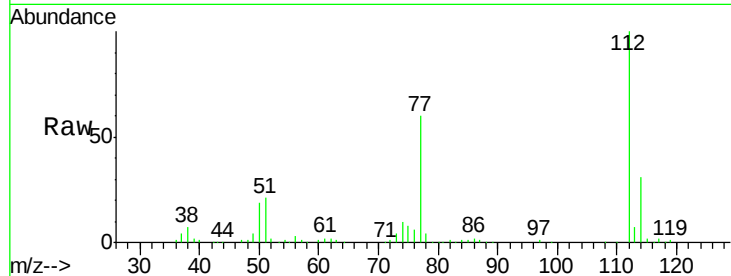
114 31.2 25.5 38.3

Manual Integrations

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#66

1,1,1,2-Tetrachloroethane

Concen: 20.163 ug/l

RT: 10.22 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

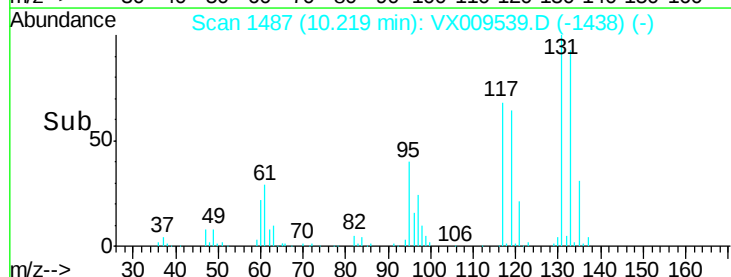
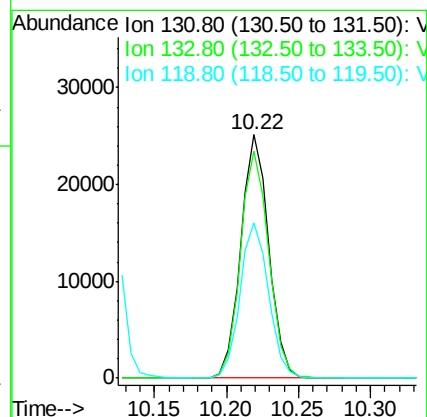
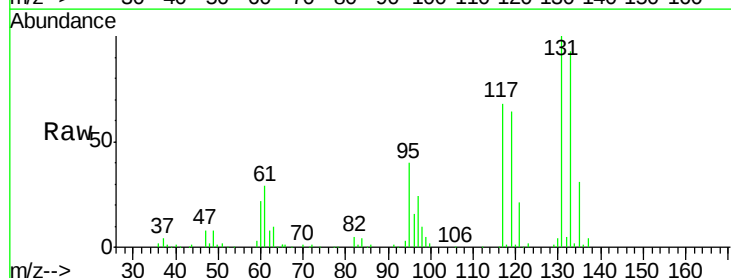
Tgt Ion:131 Resp: 33899

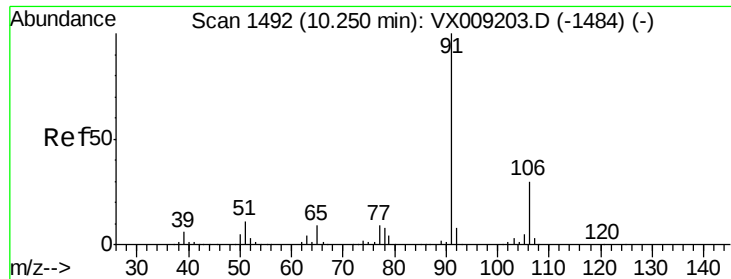
Ion Ratio Lower Upper

131 100

133 94.5 47.7 143.1

119 65.5 33.5 100.4





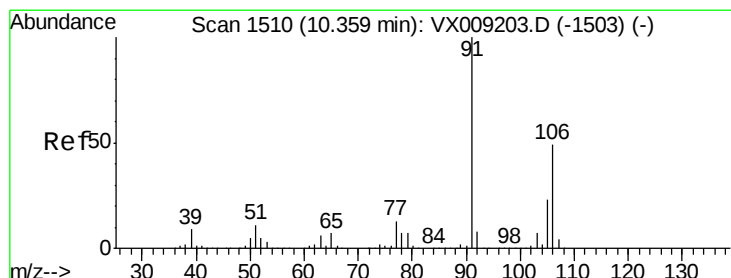
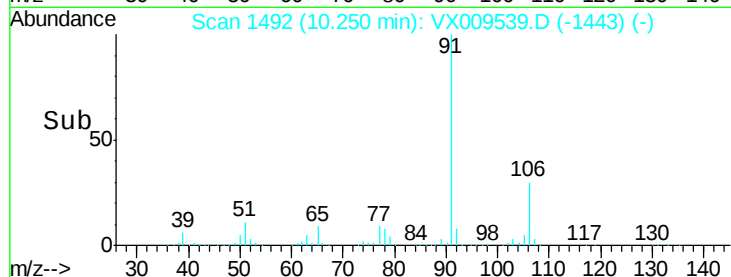
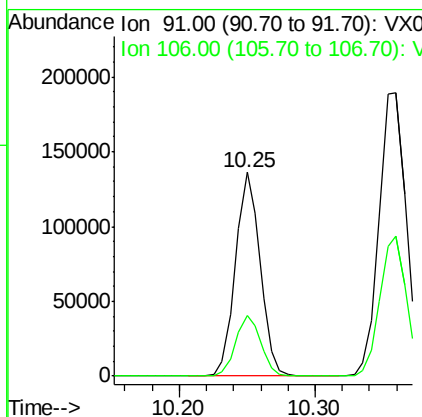
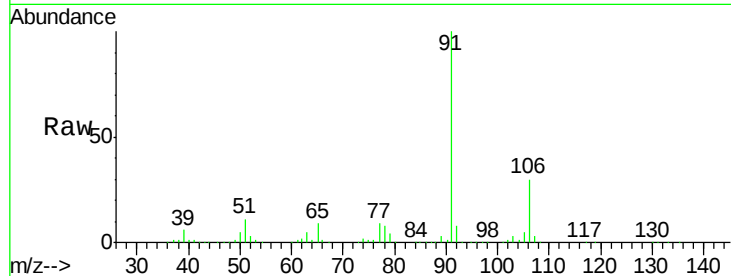
#67
Ethyl Benzene
Concen: 20.226 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. -0.00 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0513WBSD01

Tot Ion: 91 Resp: 172620
Ion Ratio Lower Upper
91 100
106 29.8 24.0 36.0

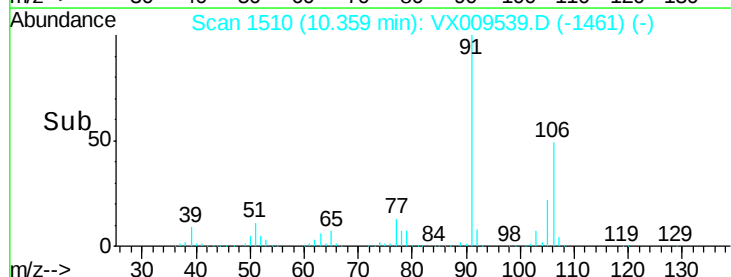
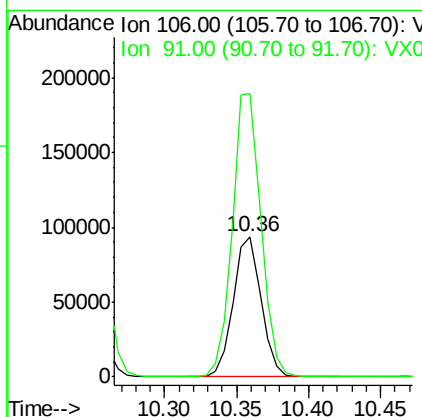
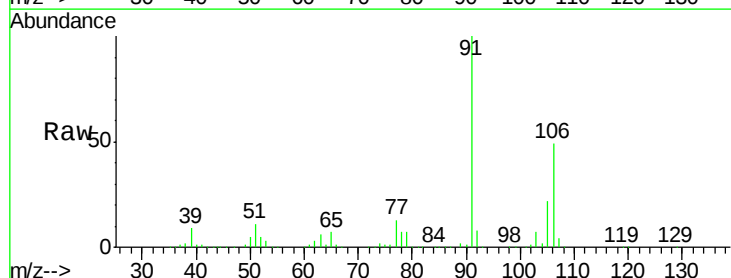
Manual Integrations
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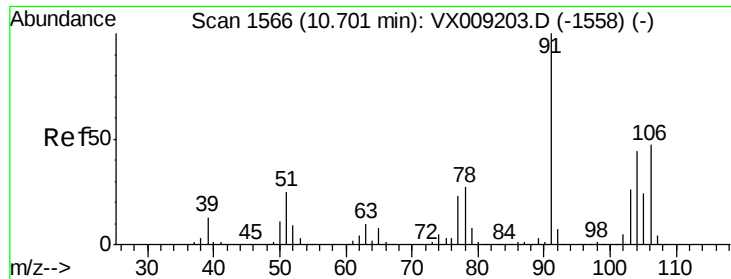
MMDadoda
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#68
m/p-Xylenes
Concen: 40.866 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Tgt Ion: 106 Resp: 127453
Ion Ratio Lower Upper
106 100
91 207.2 164.0 246.0





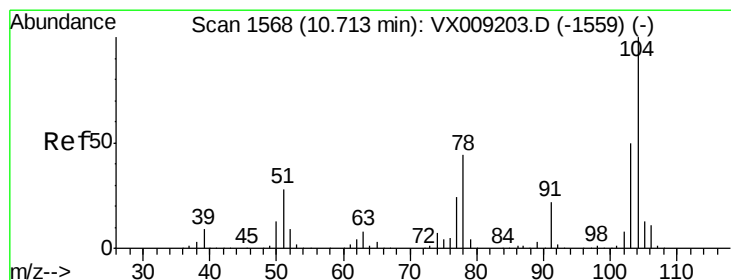
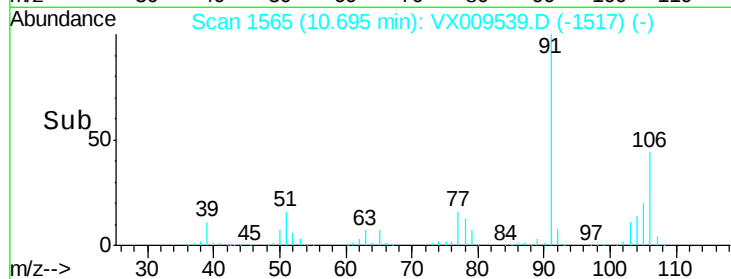
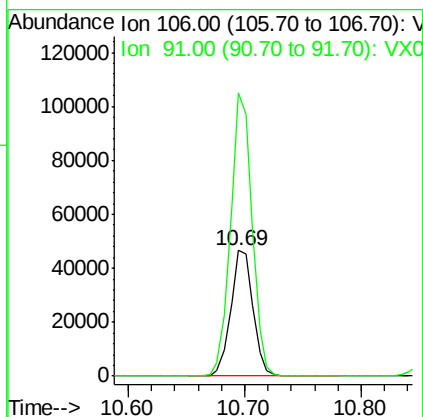
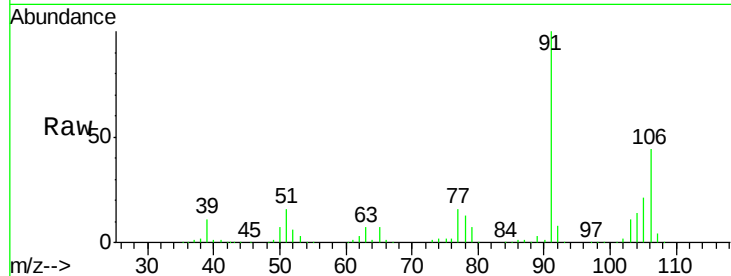
#69
o-Xylene
Concen: 20.211 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. -0.01 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0513WBSD01

Tot Ion:106 Resp: 62191
Ion Ratio Lower Upper
106 100
91 217.8 109.5 328.4

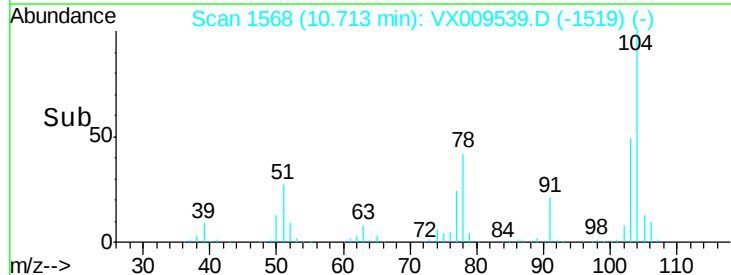
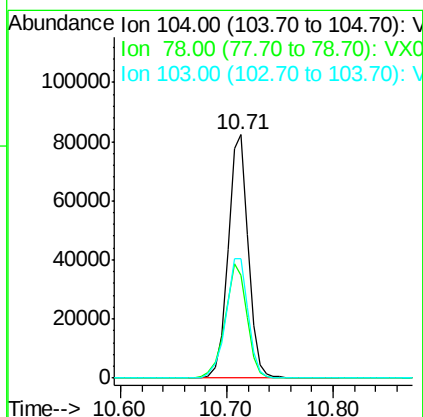
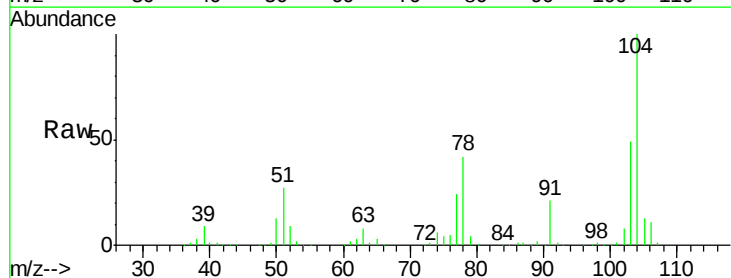
Manual Integrations
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#70
Styrene
Concen: 20.257 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Tgt Ion:104 Resp: 108341
Ion Ratio Lower Upper
104 100
78 51.0 41.0 61.4
103 54.6 43.8 65.6





#71

Bromoform

Concen: 19.535 ug/l

RT: 10.85 min Scan# 1591

Delta R.T. -0.00 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

Instrument :

MSVOA_X

ClientSampleId :

VX0513WBSD01

Tot Ion:173 Resp: 26690

Ion Ratio Lower Upper

173 100

175 49.3 24.5 73.5

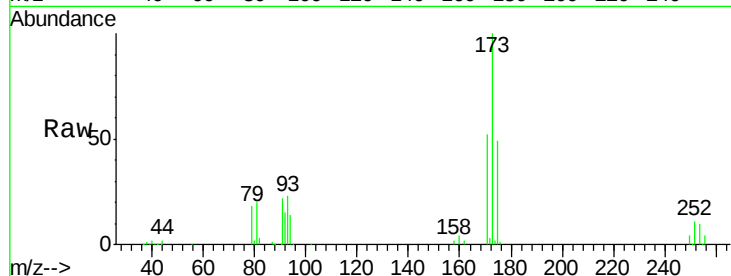
254 0.2 0.1 0.1#

Manual Integrations

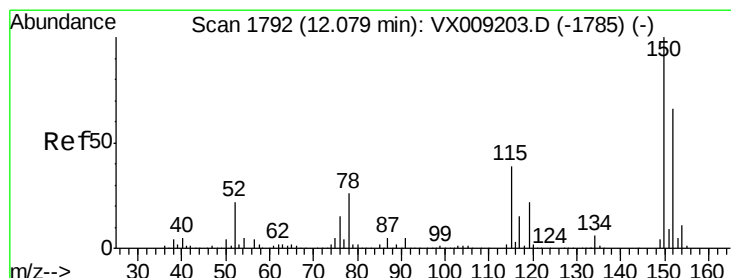
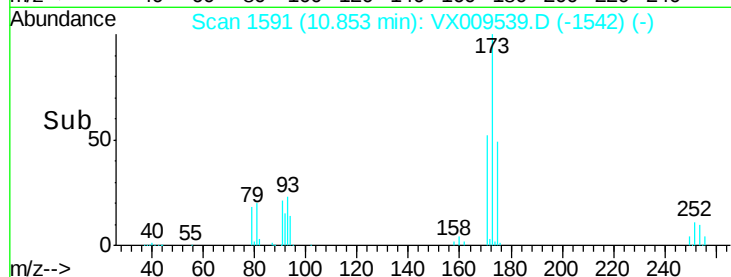
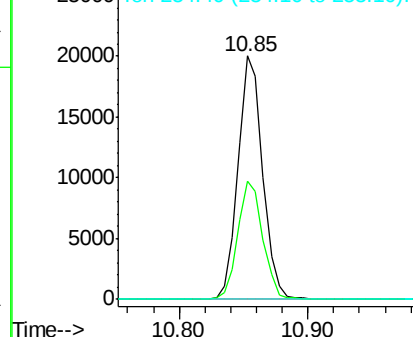
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Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

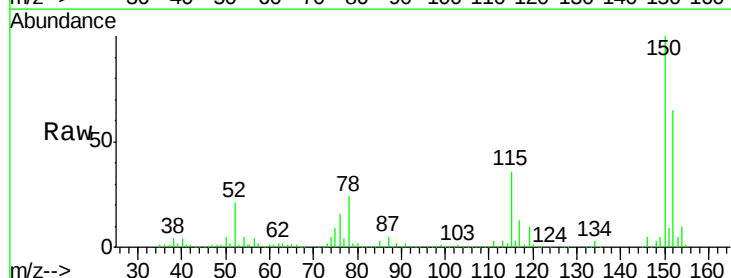
Tgt Ion:152 Resp: 112134

Ion Ratio Lower Upper

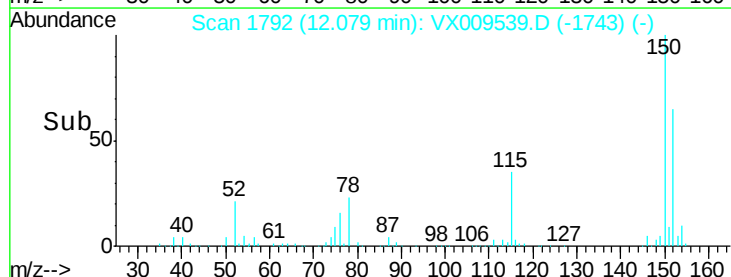
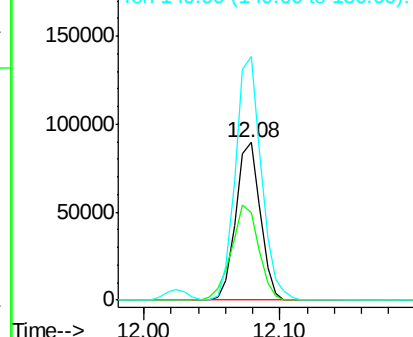
152 100

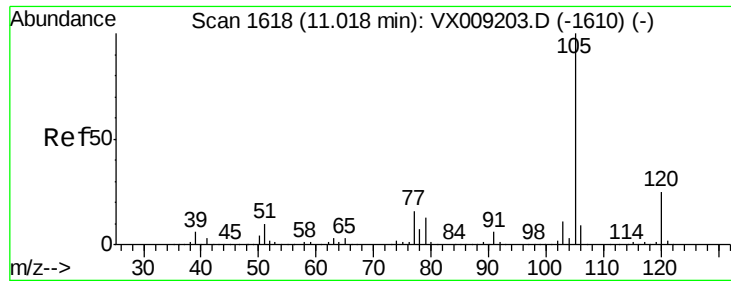
115 67.6 41.2 123.6

150 163.2 0.0 346.4



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





#73

Isopropylbenzene

Concen: 20.535 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

Instrument :

MSVOA_X

ClientSampleId :

VX0513WBSD01

Tot Ion: 105 Resp: 167447

Ion Ratio Lower Upper

105 100

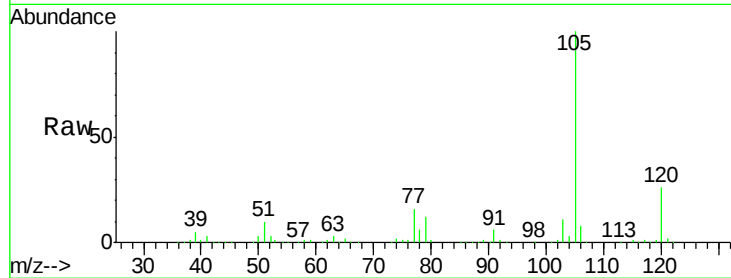
120 25.5 12.8 38.3

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.02

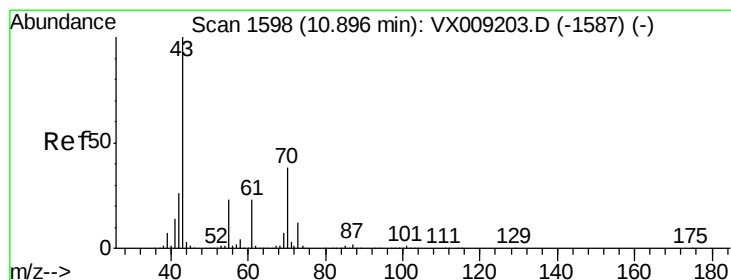
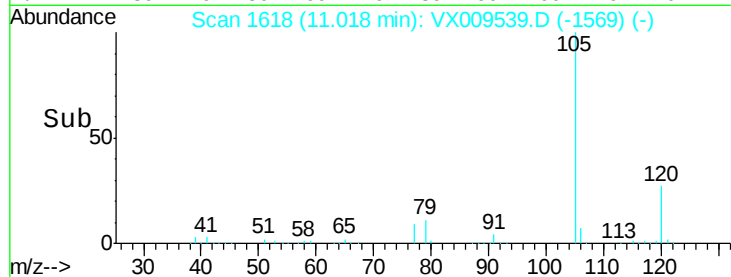
150000

100000

50000

0

Time-->



#74

N-ethyl acetate

Concen: 19.812 ug/l

RT: 10.90 min Scan# 1598

Delta R.T. -0.00 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

Tgt Ion: 43 Resp: 94188

Ion Ratio Lower Upper

43 100

70 37.7 30.0 45.0

55 23.4 17.9 26.9

61 23.0 18.4 27.6

Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

10.90

120000

100000

80000

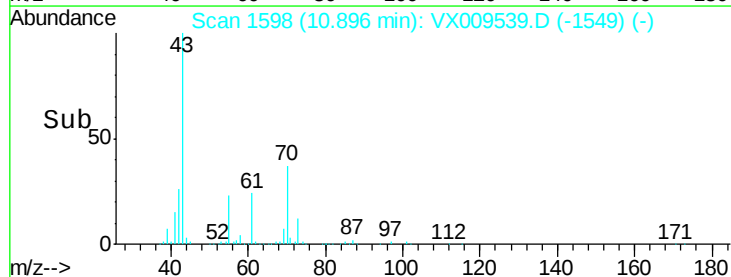
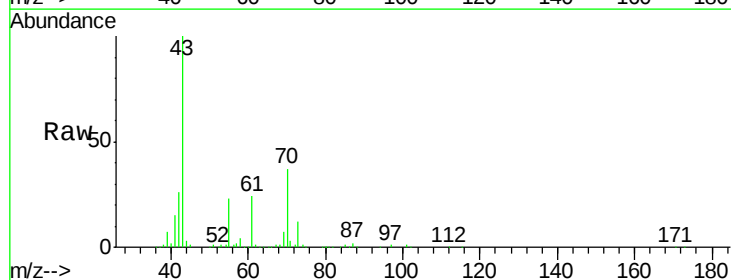
60000

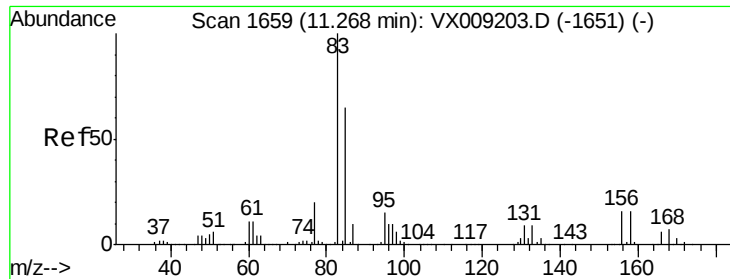
40000

20000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 19.900 ug/l

RT: 11.27 min Scan# 1659

Delta R.T. -0.00 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

Instrument :

MSVOA_X

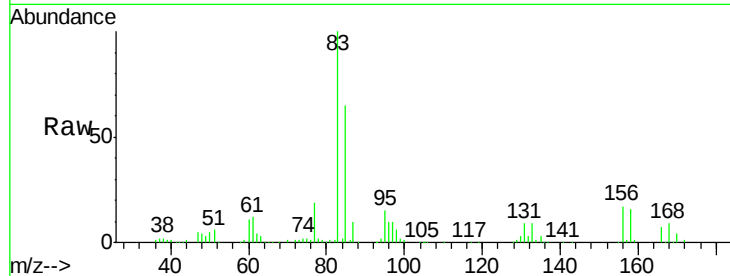
ClientSampleId :

VX0513WBSD01

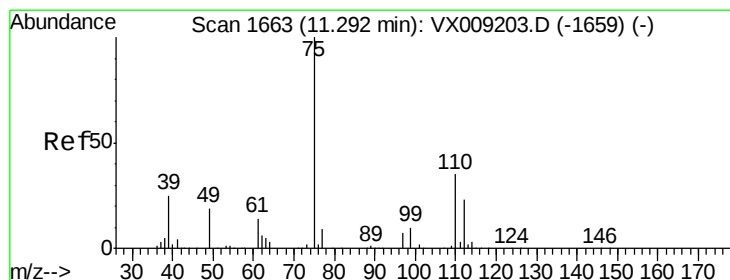
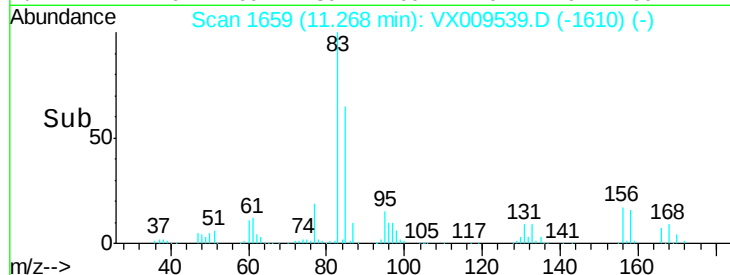
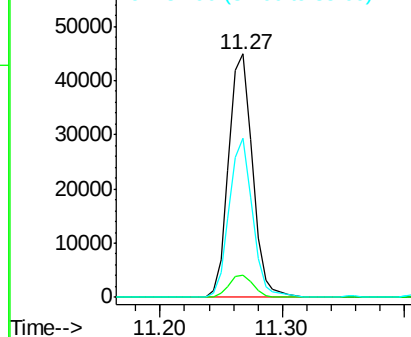
Tot Ion:	83	Resp:	60493
Ion Ratio	Lower	Upper	
83	100		
131	9.3	4.6	13.8
85	63.9	32.0	96.2

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VX0
Ion 130.80 (130.50 to 131.50): V
Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 20.013 ug/l m

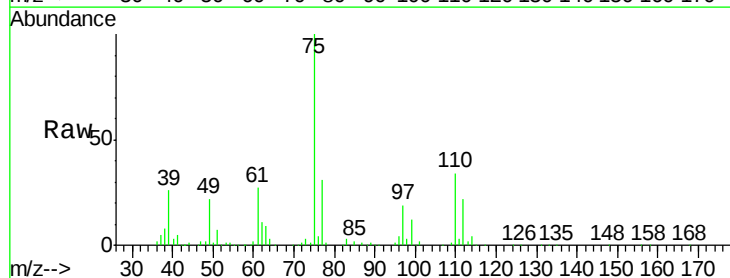
RT: 11.29 min Scan# 1663

Delta R.T. -0.00 min

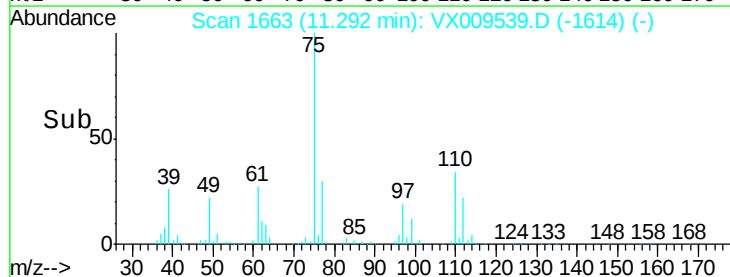
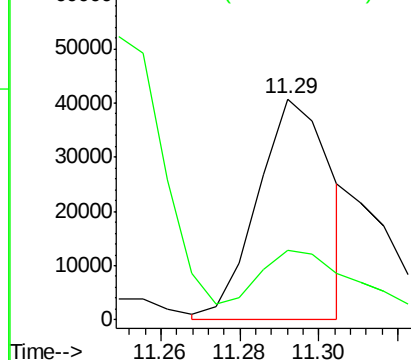
Lab File: VX009539.D

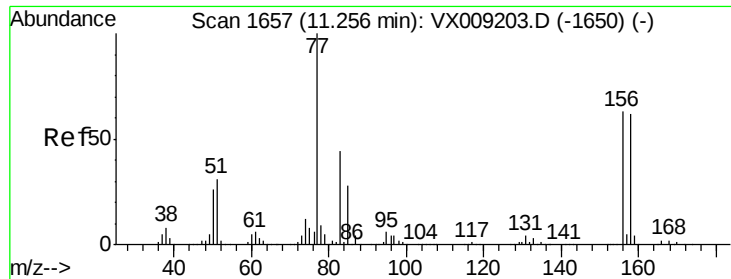
Acq: 13 May 2019 13:35

Tgt Ion:	75	Resp:	52057
Ion Ratio	Lower	Upper	
75	100		
77	44.0	22.1	66.1



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0





#77

Bromobenzene

Concen: 20.304 ug/l

RT: 11.26 min Scan# 1657

Delta R.T. -0.00 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

Instrument :

MSVOA_X

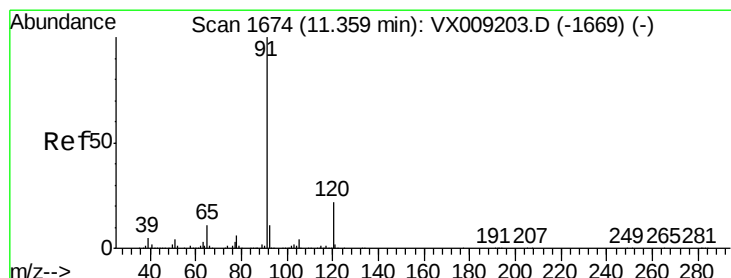
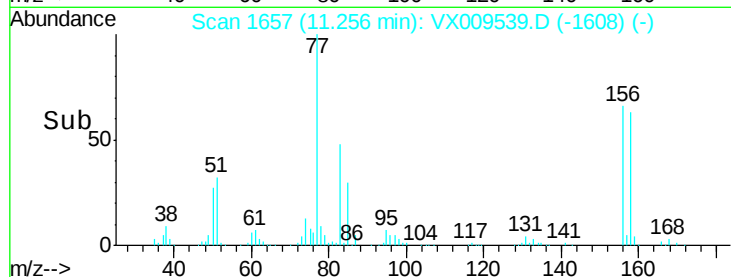
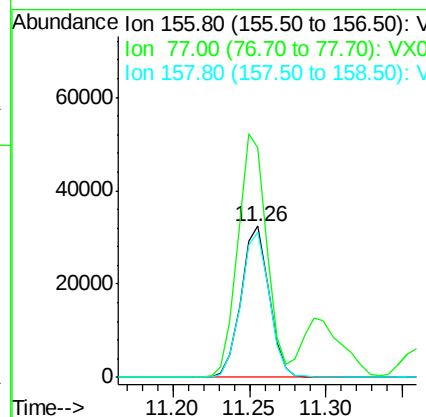
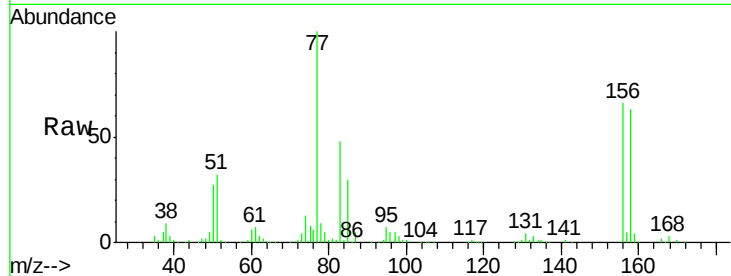
ClientSampleId :

VX0513WBSD01

Tot Ion:	156	Resp:	41093
Ion	Ratio	Lower	Upper
156	100		
77	166.0	84.8	254.3
158	97.4	49.1	147.3

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#78

n-propylbenzene

Concen: 20.450 ug/l

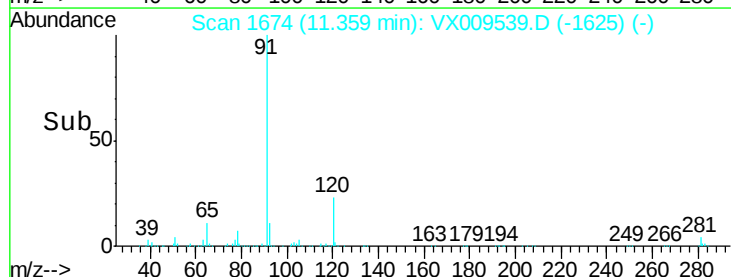
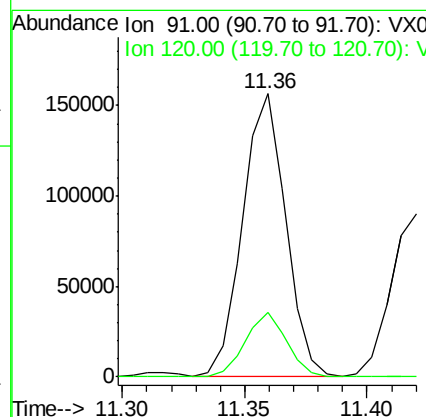
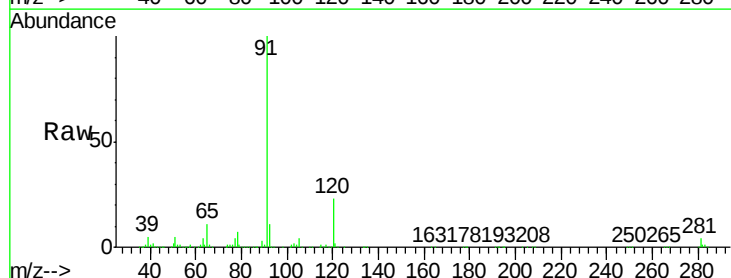
RT: 11.36 min Scan# 1674

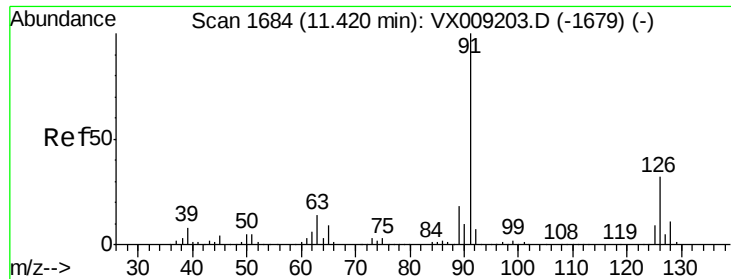
Delta R.T. -0.00 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

Tgt Ion:	91	Resp:	190438
Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.0	33.0





#79

2-Chlorotoluene

Concen: 19.918 ug/l

RT: 11.42 min Scan# 1684

Delta R.T. -0.00 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

Instrument :

MSVOA_X

ClientSampleId :

VX0513WBSD01

Tot Ion: 91 Resp: 114438

Ion Ratio Lower Upper

91 100

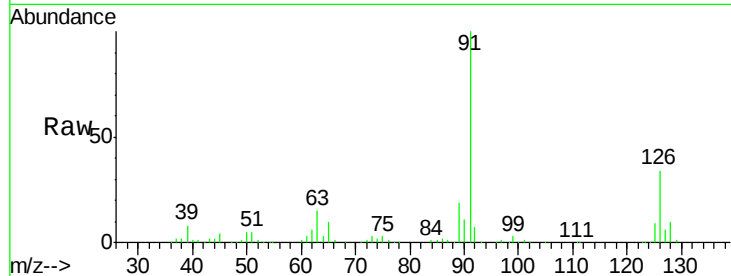
126 33.2 16.3 48.9

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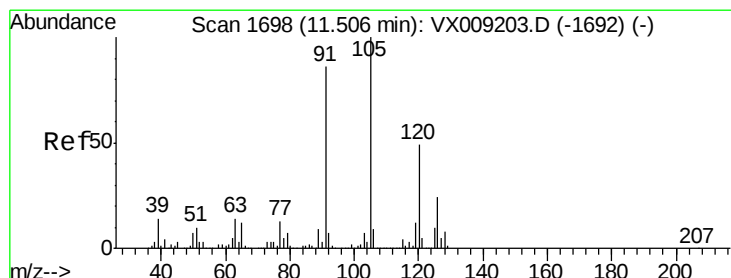
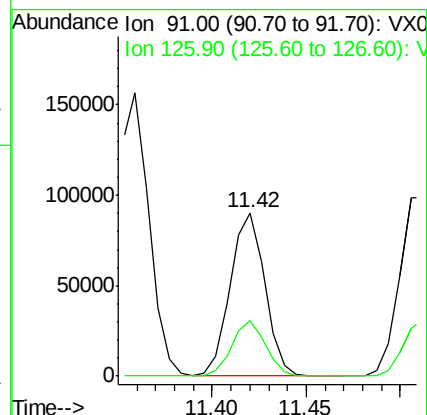
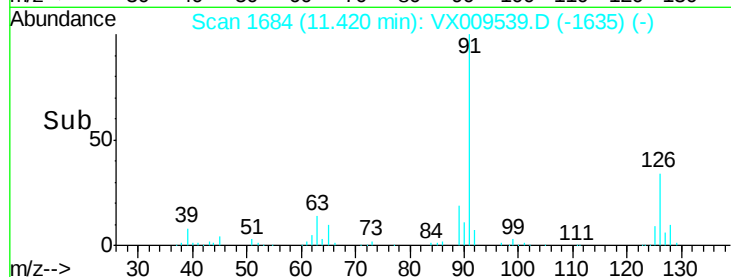
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Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 20.551 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX009539.D

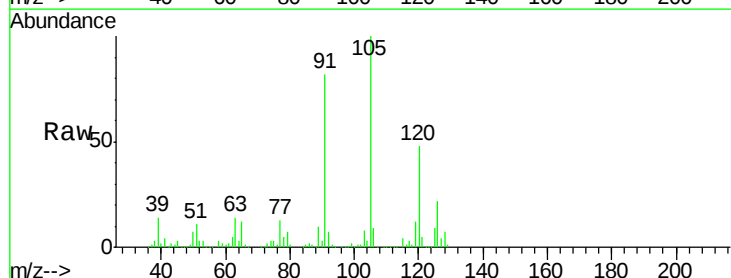
Acq: 13 May 2019 13:35

Tgt Ion:105 Resp: 141103

Ion Ratio Lower Upper

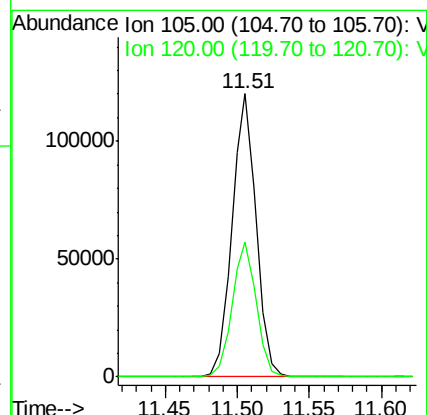
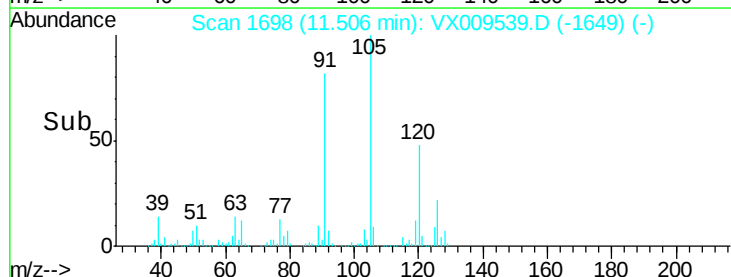
105 100

120 47.8 24.3 72.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





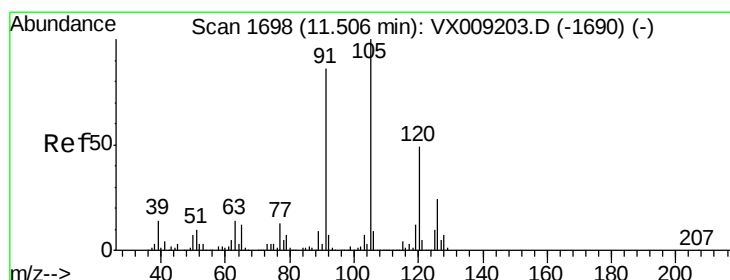
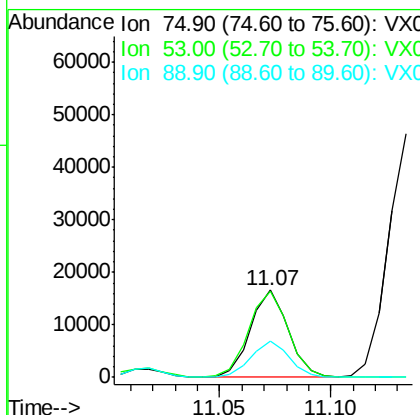
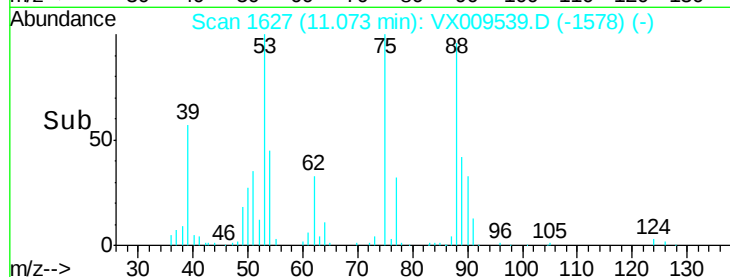
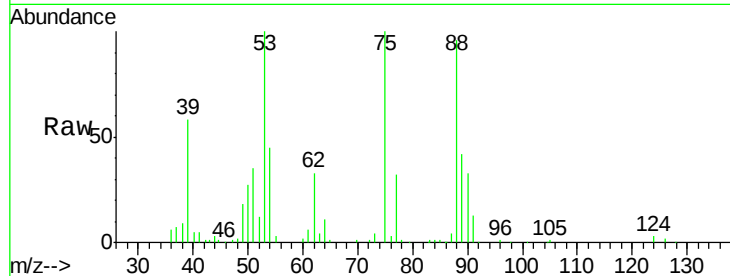
#81
trans-1,4-Dichloro-2-butene
Concen: 19.159 ug/l
RT: 11.07 min Scan# 1627
Delta R.T. -0.00 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0513WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
53	103.9	79.0	118.6
89	43.1	34.7	52.1

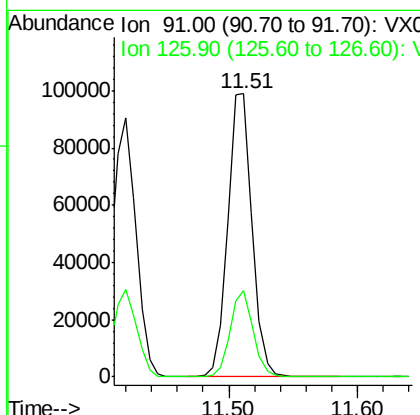
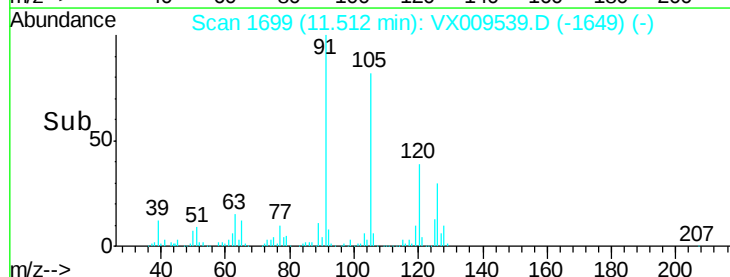
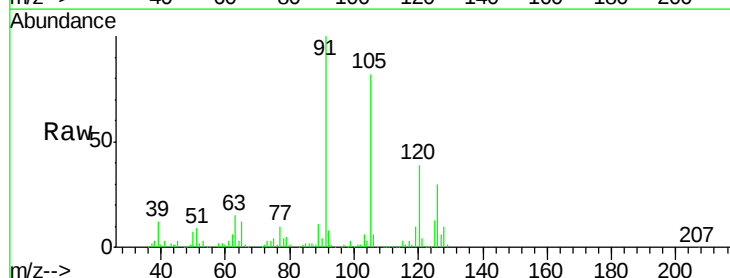
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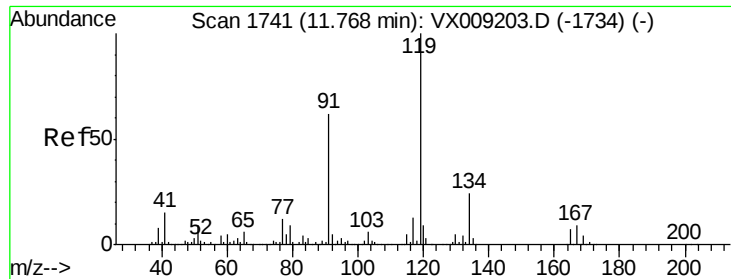
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#82
4-Chlorotoluene
Concen: 20.115 ug/l
RT: 11.51 min Scan# 1699
Delta R.T. 0.01 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Tgt Ion	Ratio	Lower	Upper
91	100		
126	29.0	14.5	43.6





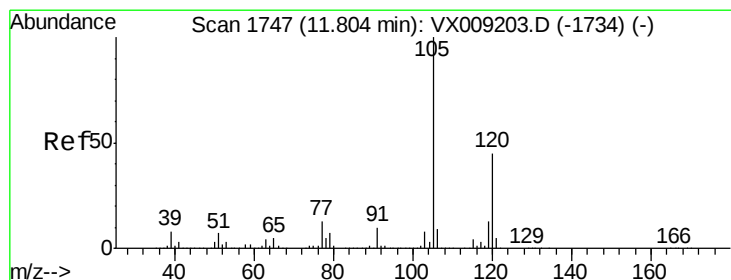
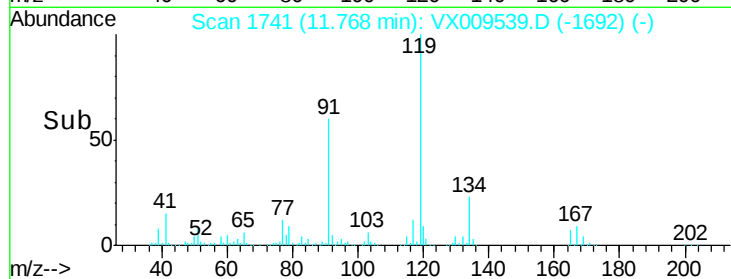
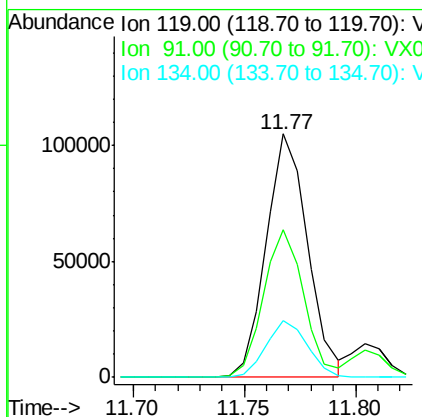
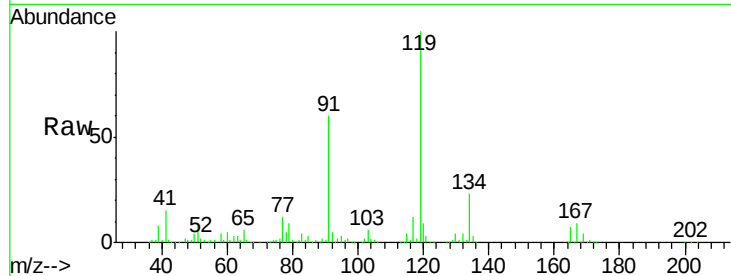
#83
tert-Butylbenzene
Concen: 20.339 ug/l
RT: 11.77 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0513WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	135848		
91	59.1	29.5	88.5	
134	23.1	11.4	34.1	

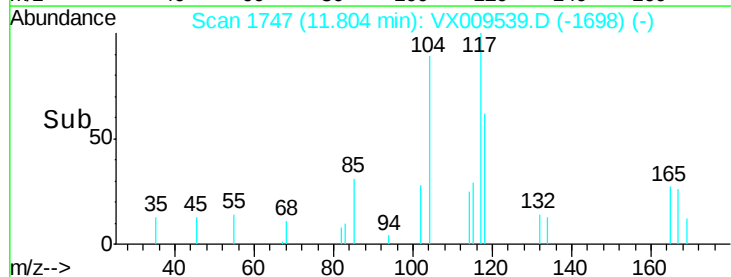
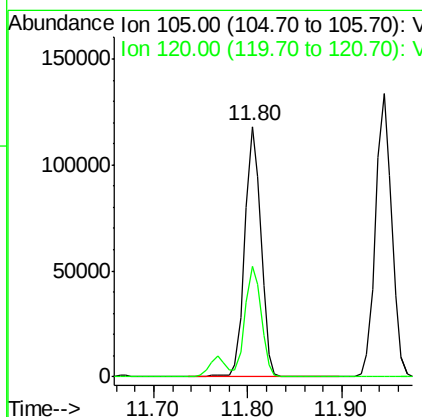
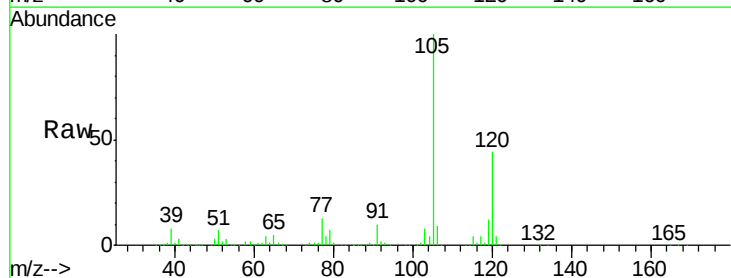
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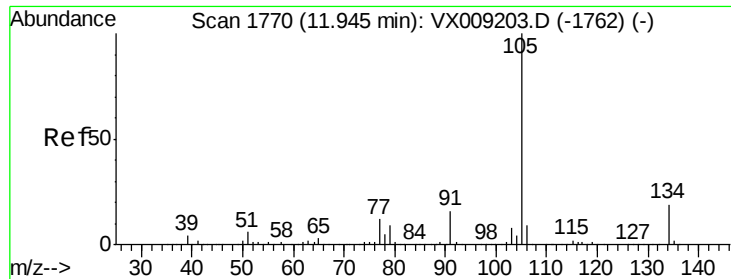
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#84
1,2,4-Trimethylbenzene
Concen: 20.466 ug/l
RT: 11.80 min Scan# 1747
Delta R.T. -0.00 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	141044		
120	43.9	22.0	66.0	





#85

sec-Butylbenzene

Concen: 20.107 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

Instrument :

MSVOA_X

ClientSampleId :

VX0513WBSD01

Tot Ion:105 Resp: 159221

Ion Ratio Lower Upper

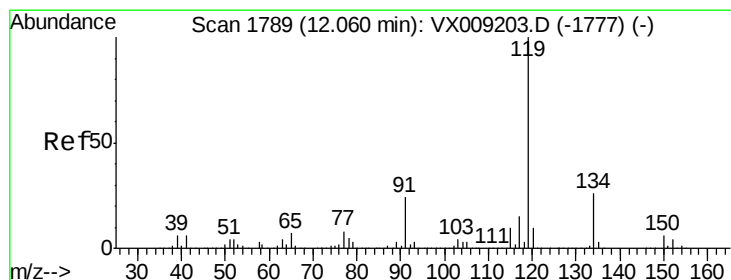
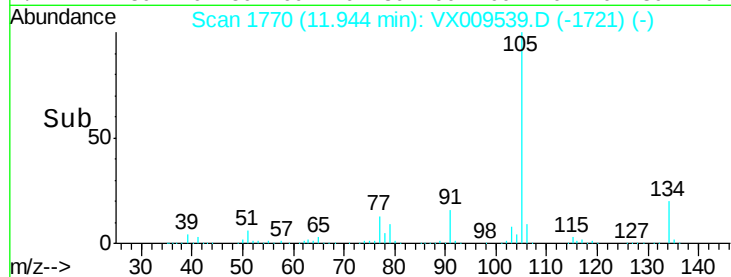
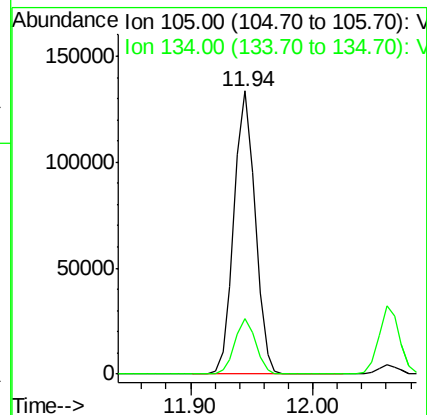
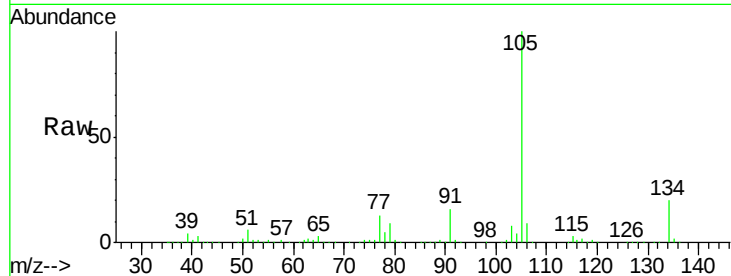
105 100

134 19.5 9.7 28.9

Manual Integrations
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#86

p-Isopropyltoluene

Concen: 20.317 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

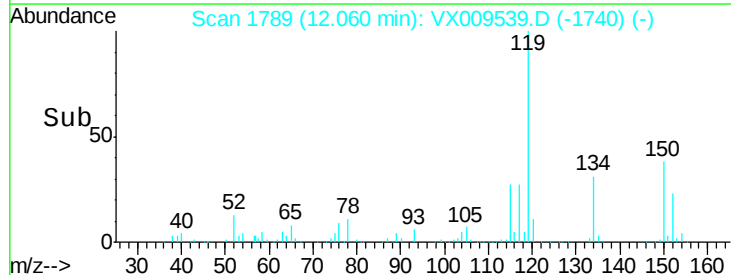
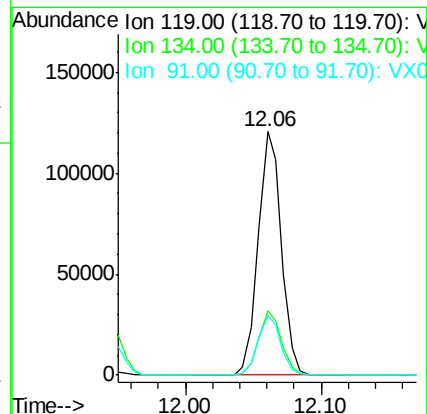
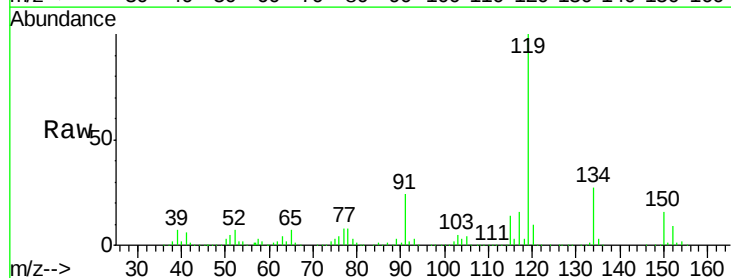
Tgt Ion:119 Resp: 144633

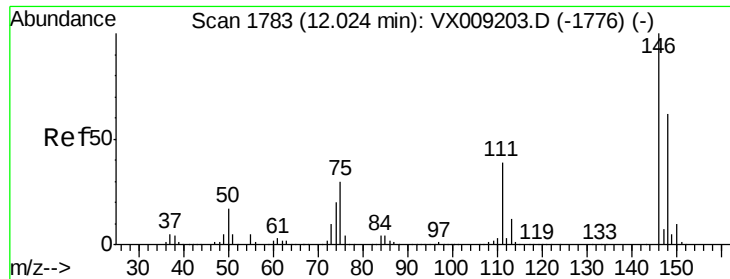
Ion Ratio Lower Upper

119 100

134 26.2 12.9 38.7

91 24.1 11.8 35.4





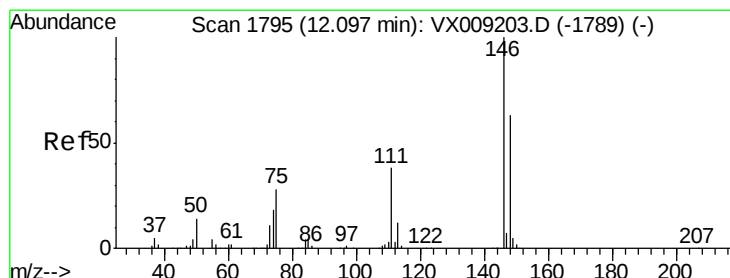
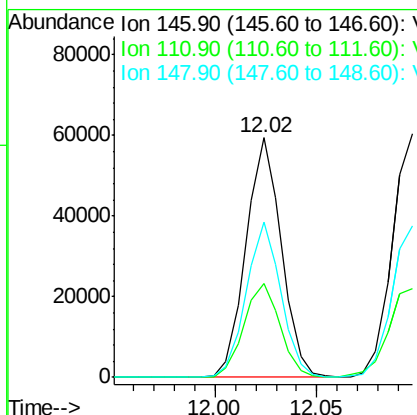
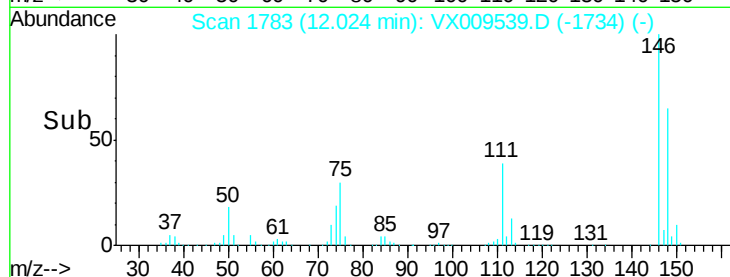
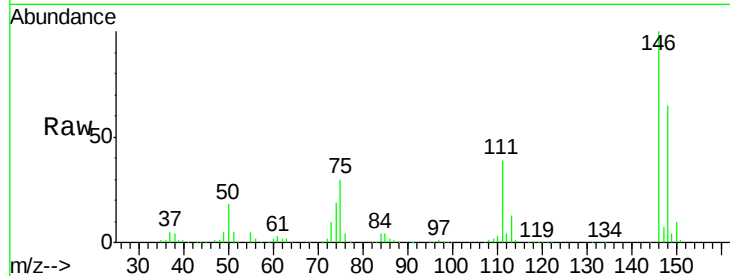
#87
 1,3-Dichlorobenzene
 Concen: 19.837 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. -0.00 min
 Lab File: VX009539.D
 Acq: 13 May 2019 13:35

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0513WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.0	20.0	59.9
148	63.6	31.8	95.3

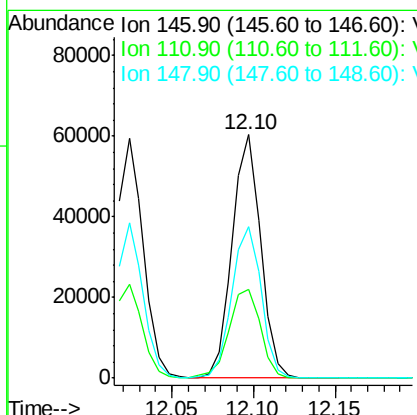
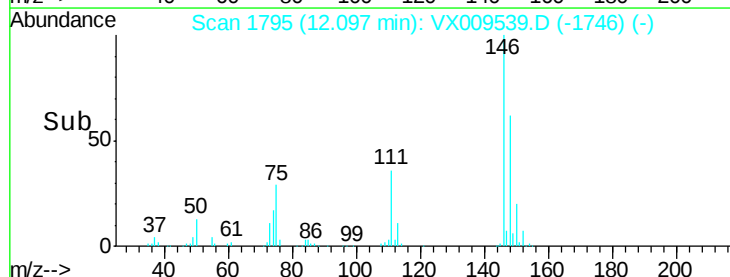
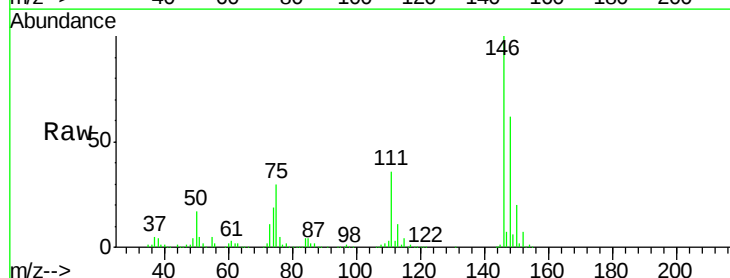
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#88
 1,4-Dichlorobenzene
 Concen: 20.173 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. -0.00 min
 Lab File: VX009539.D
 Acq: 13 May 2019 13:35

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.5	19.6	58.8
148	64.6	31.8	95.3





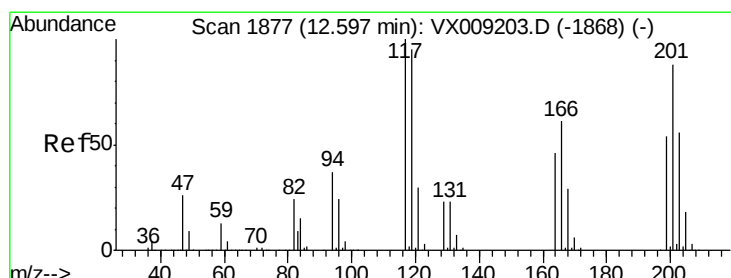
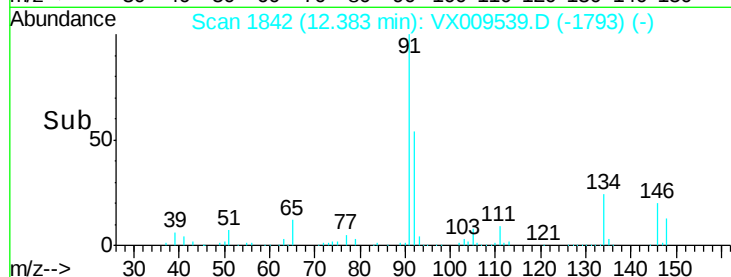
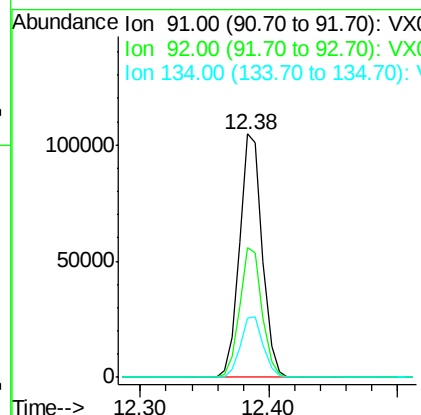
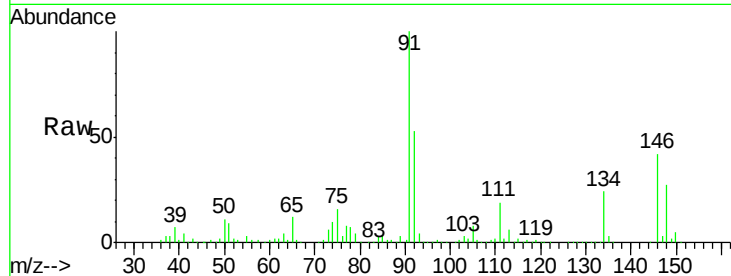
#89
n-Butylbenzene
Concen: 19.928 ug/l
RT: 12.38 min Scan# 1842
Delta R.T. -0.00 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0513WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.6	26.5	79.5
134	25.0	12.4	37.2

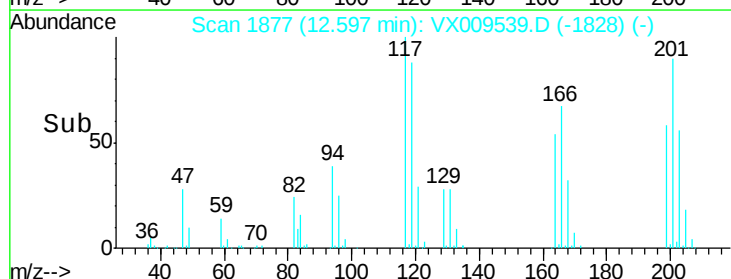
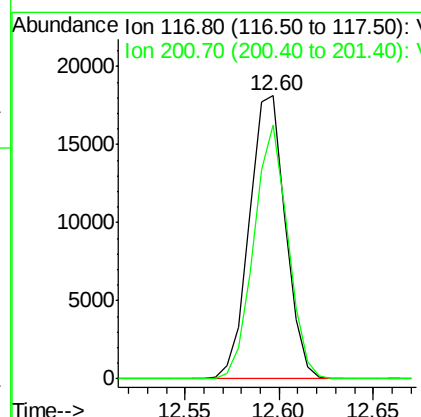
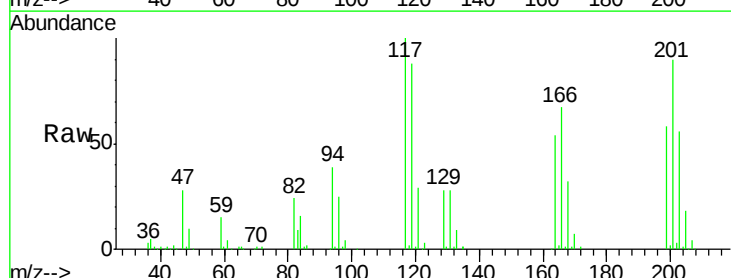
Manual Integrations
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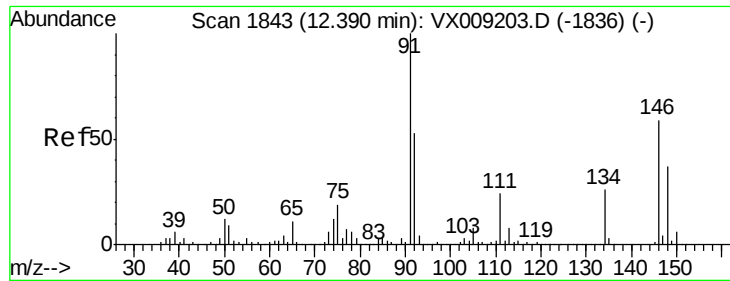
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#90
Hexachloroethane
Concen: 19.821 ug/l
RT: 12.60 min Scan# 1877
Delta R.T. -0.00 min
Lab File: VX009539.D
Acq: 13 May 2019 13:35

Tgt Ion	Ratio	Lower	Upper
117	100		
201	84.6	42.3	126.9





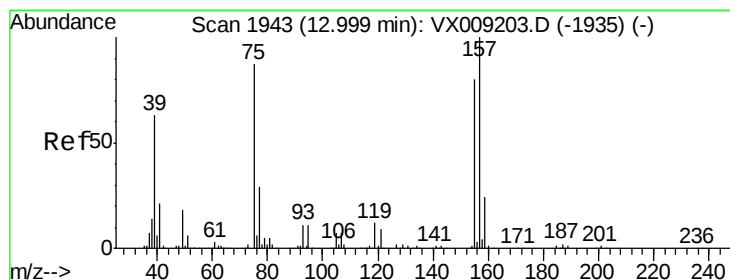
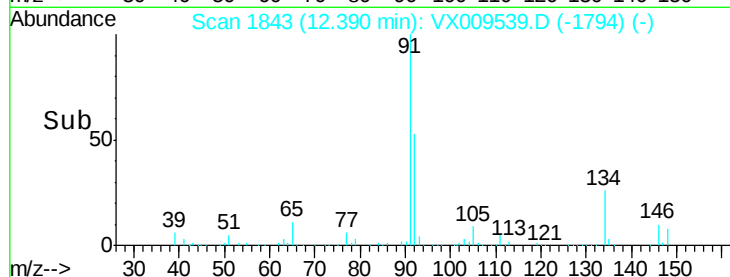
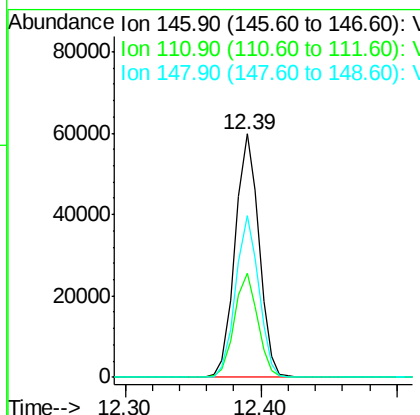
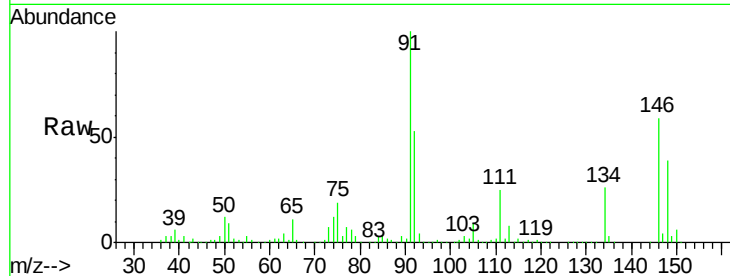
#91
 1,2-Dichlorobenzene
 Concen: 19.911 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. -0.00 min
 Lab File: VX009539.D
 Acq: 13 May 2019 13:35

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0513WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.7	20.8	62.4
148	64.3	31.9	95.9

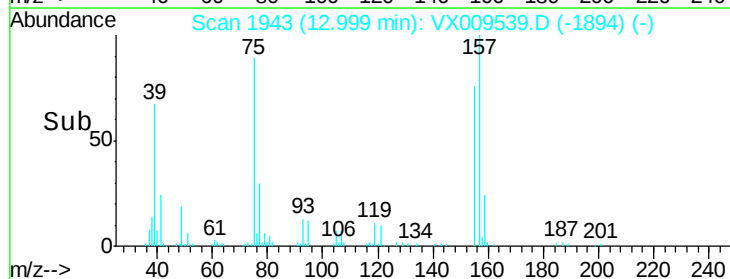
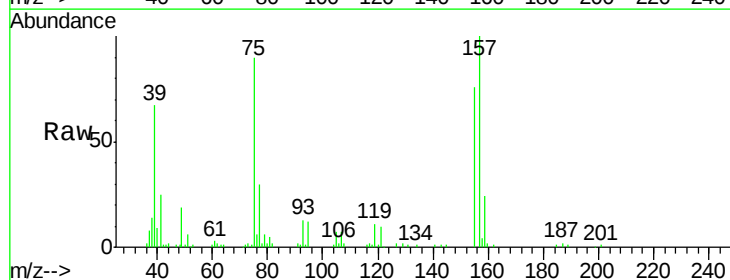
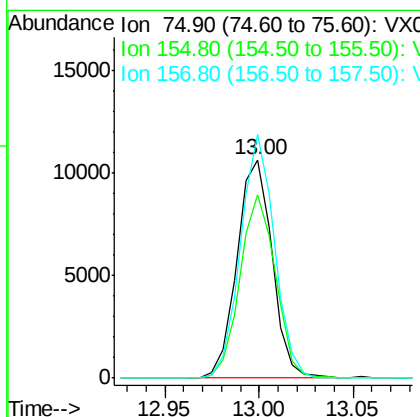
Manual Integrations
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.160 ug/l
 RT: 13.00 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VX009539.D
 Acq: 13 May 2019 13:35

Tgt Ion	Ratio	Lower	Upper
75	100		
155	84.8	42.0	126.0
157	107.7	53.2	159.6





#93

1,2,4-Trichlorobenzene

Concen: 20.326 ug/l

RT: 13.65 min Scan# 2049

Delta R.T. -0.00 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

Instrument :

MSVOA_X

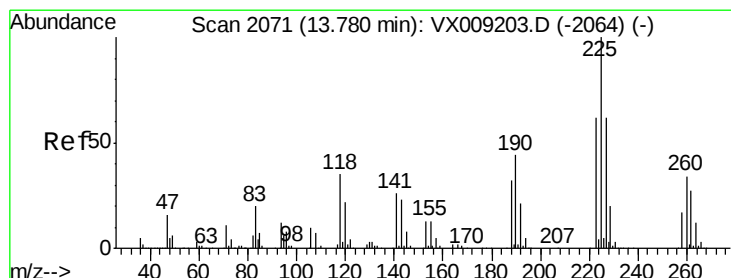
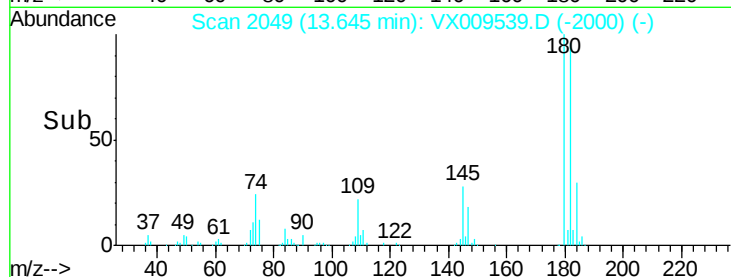
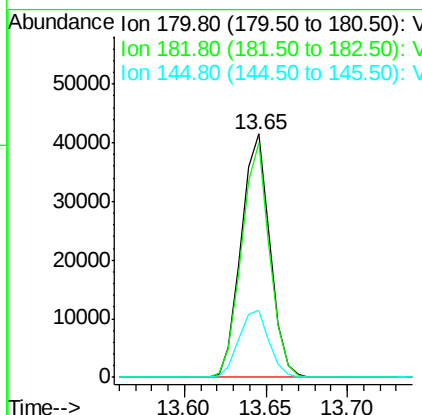
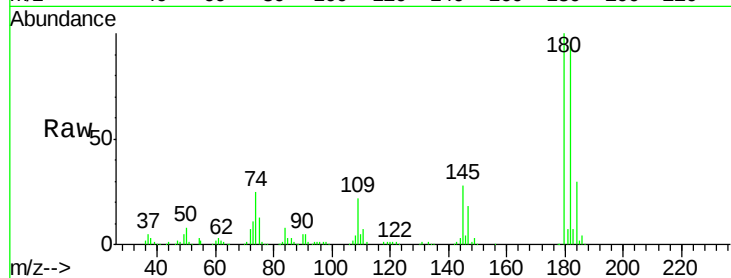
ClientSampleId :

VX0513WBSD01

Tot Ion:	180	Resp:	51079
Ion Ratio	Lower	Upper	
180	100		
182	94.4	48.4	145.2
145	28.9	14.6	43.8

Manual Integrations
APPROVED

MMDadoda
5/14/2019 12:15:57 PM



#94

Hexachlorobutadiene

Concen: 20.587 ug/l

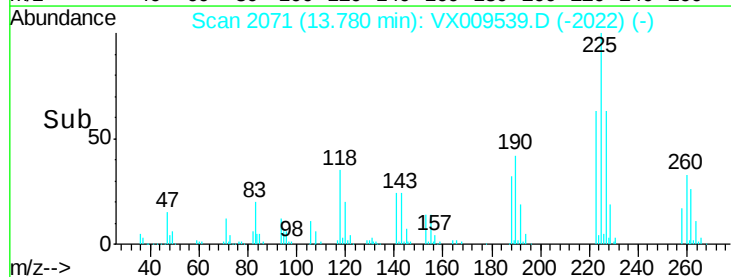
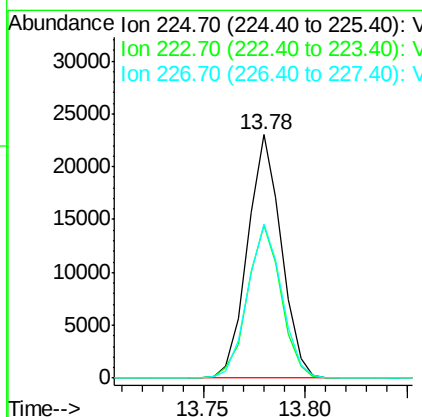
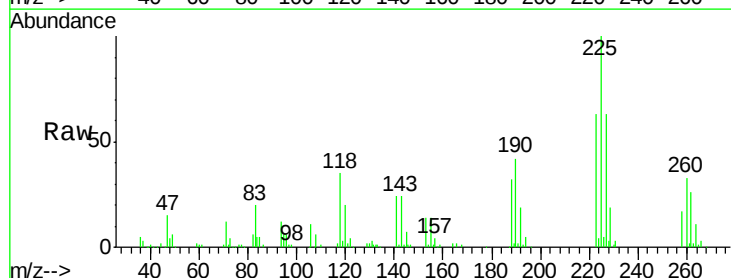
RT: 13.78 min Scan# 2071

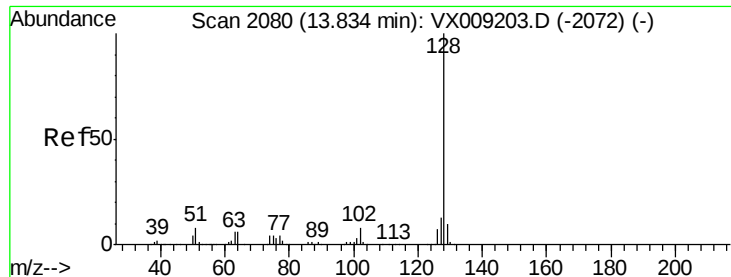
Delta R.T. -0.00 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

Tgt Ion:	225	Resp:	26420
Ion Ratio	Lower	Upper	
225	100		
223	62.5	31.3	93.8
227	64.1	31.8	95.3





#95

Naphthalene

Concen: 20.362 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

Instrument :

MSVOA_X

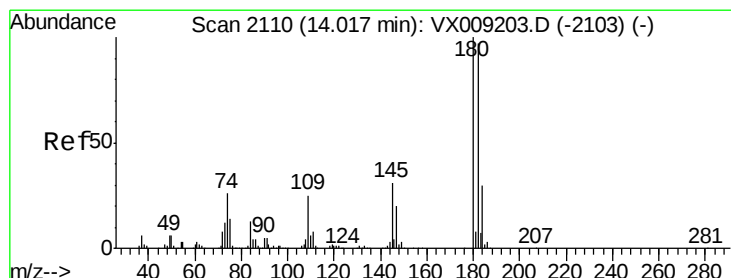
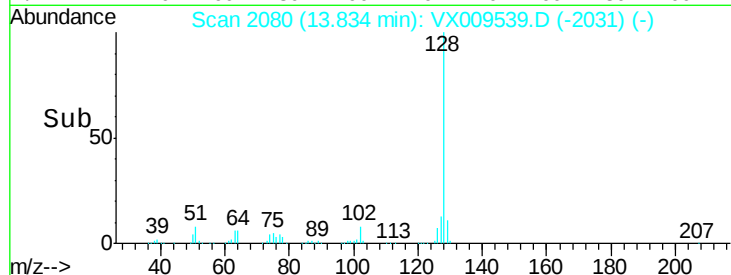
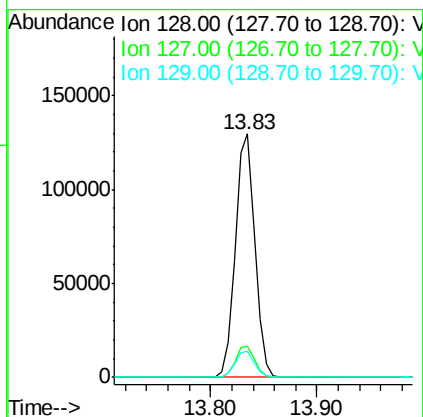
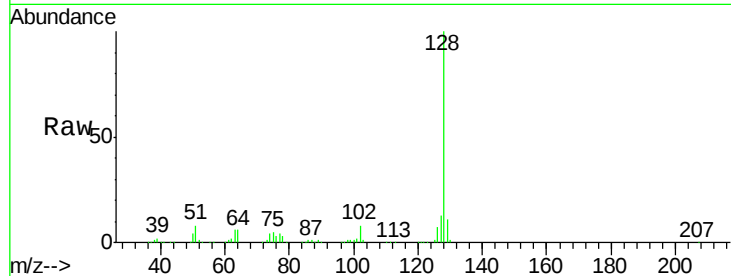
ClientSampleId :

VX0513WBSD01

Tot Ion:	128	Resp:	166475
Ion Ratio		Lower	Upper
128	100		
127	12.8	10.4	15.6
129	10.9	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
5/14/2019 12:15:57 PM



#96

1,2,3-Trichlorobenzene

Concen: 20.732 ug/l

RT: 14.02 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VX009539.D

Acq: 13 May 2019 13:35

Tgt Ion:	180	Resp:	52811
Ion Ratio		Lower	Upper
180	100		
182	95.6	47.8	143.4
145	30.3	15.4	46.4

