

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080318\
 Data File : VX003835.D
 Acq On : 02 Aug 2018 20:42
 Operator : JC/MD
 Sample : VSTDIC100
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC100

Manual Integrations
 APPROVED

MMDadoda
 8/6/2018 1:35:50 PM

Quant Time: Aug 03 01:49:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080318W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 03 01:37:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	109790	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	155500	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	150598	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	95661	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	139404	85.37	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	170.74%	
35) Dibromofluoromethane	5.51	113	120868	95.13	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	190.26%	
50) Toluene-d8	8.72	98	467665	96.84	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	193.68%	
62) 4-Bromofluorobenzene	11.14	95	171537	97.25	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	194.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	110857	91.44	ug/l	99
3) Chloromethane	1.32	50	146447	87.67	ug/l	98
4) Vinyl Chloride	1.40	62	136302	83.09	ug/l	99
5) Bromomethane	1.64	94	49678	63.20	ug/l	99
6) Chloroethane	1.70	64	62367	63.78	ug/l	97
7) Trichlorofluoromethane	1.92	101	148863	71.14	ug/l	98
8) Diethyl Ether	2.19	74	66893	70.90	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.37	101	107777	84.57	ug/l	99
10) Methyl Iodide	2.51	142	157307	94.87	ug/l	99
11) Tert butyl alcohol	3.09	59	141049	368.80	ug/l	100
12) 1,1-Dichloroethene	2.37	96	103947	83.73	ug/l	97
13) Acrolein	2.29	56	120441	601.86	ug/l	99
14) Allyl chloride	2.72	41	188637	73.41	ug/l	99
15) Acrylonitrile	3.15	53	333420	359.90	ug/l	96
16) Acetone	2.45	43	328981	421.92	ug/l	99
17) Carbon Disulfide	2.56	76	298730	83.67	ug/l	99
18) Methyl Acetate	2.78	43	146928	65.16	ug/l	99
19) Methyl tert-butyl Ether	3.21	73	366398	82.06	ug/l	92
20) Methylene Chloride	2.86	84	119036	79.14	ug/l	99
21) trans-1,2-Dichloroethene	3.16	96	113270	83.90	ug/l	95
22) Diisopropyl ether	3.88	45	371021	78.31	ug/l	94
23) Vinyl Acetate	3.82	43	1523582	374.85	ug/l	100
24) 1,1-Dichloroethane	3.70	63	204406	76.20	ug/l	99
25) 2-Butanone	4.71	43	595200	483.62	ug/l	100
26) 2,2-Dichloropropane	4.58	77	139634	82.86	ug/l	99
27) cis-1,2-Dichloroethene	4.60	96	132481	88.87	ug/l	99
28) Bromochloromethane	5.02	49	102789	91.65	ug/l	98
29) Tetrahydrofuran	5.17	42	306335	401.06	ug/l	100
30) Chloroform	5.22	83	215734	86.95	ug/l	98
31) Cyclohexane	5.57	56	196205	93.72	ug/l	92
32) 1,1,1-Trichloroethane	5.49	97	186113	91.63	ug/l	100
36) 1,1-Dichloropropene	5.80	75	166355	93.59	ug/l	100
37) Ethyl Acetate	4.87	43	179790	82.81	ug/l	99
38) Carbon Tetrachloride	5.78	117	169596	98.98	ug/l	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	201293	106.36	ug/l	97
40) Benzene	6.15	78	503547	94.08	ug/l	99
41) Methacrylonitrile	5.07	41	99825	83.07	ug/l	99
42) 1,2-Dichloroethane	6.20	62	167033	88.77	ug/l	100
43) Isopropyl Acetate	6.47	43	287732	90.95	ug/l	100
44) Trichloroethene	7.21	130	135738	94.85	ug/l	98
45) 1,2-Dichloropropane	7.52	63	130861	94.30	ug/l	98
46) Dibromomethane	7.67	93	84637	94.29	ug/l	99
47) Bromodichloromethane	7.90	83	164616	98.20	ug/l	99
48) Methyl methacrylate	7.78	41	150688	93.84	ug/l	100
49) 1,4-Dioxane	7.76	88	69119	1916.31	ug/l	100
51) 4-Methyl-2-Pentanone	8.66	43	1213587	544.58	ug/l	100
52) Toluene	8.79	92	320955	96.46	ug/l	99
53) t-1,3-Dichloropropene	9.04	75	188030	101.29	ug/l	99
54) cis-1,3-Dichloropropene	8.44	75	201873	99.08	ug/l	98
55) 1,1,2-Trichloroethane	9.22	97	130038	94.77	ug/l	98
56) Ethyl methacrylate	9.18	69	206236	101.52	ug/l	100
57) 1,3-Dichloropropane	9.38	76	215086	93.51	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.32	63	521053	507.76	ug/l	100
59) 2-Hexanone	9.50	43	946832	554.53	ug/l	100
60) Dibromochloromethane	9.59	129	137662	105.24	ug/l	99
61) 1,2-Dibromoethane	9.68	107	137860	96.24	ug/l	99
64) Tetrachloroethene	9.34	164	131023	96.64	ug/l	99
65) Chlorobenzene	10.14	112	363388	96.12	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.23	131	132908	100.66	ug/l	99
67) Ethyl Benzene	10.26	91	624902	99.93	ug/l	99
68) m/p-Xylenes	10.36	106	489074	203.46	ug/l	99
69) o-Xylene	10.70	106	235807	101.40	ug/l	100
70) Styrene	10.71	104	401185	102.58	ug/l	100
71) Bromoform	10.86	173	115194	109.49	ug/l	# 100
73) Isopropylbenzene	11.02	105	628536	98.08	ug/l	100
74) N-amyl acetate	6.47	43	287732	85.65	ug/l	# 100
75) 1,1,2,2-Tetrachloroethane	11.27	83	209457	87.27	ug/l	100
76) 1,2,3-Trichloropropane	11.30	75	179784m	89.77	ug/l	
77) Bromobenzene	11.26	156	170861	95.95	ug/l	98
78) n-propylbenzene	11.37	91	731805	99.26	ug/l	99
79) 2-Chlorotoluene	11.42	91	424716	93.72	ug/l	100
80) 1,3,5-Trimethylbenzene	11.51	105	542497	99.64	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.08	75	65563	101.97	ug/l	97
82) 4-Chlorotoluene	11.51	91	507872	95.20	ug/l	100
83) tert-Butylbenzene	11.77	119	540315	101.44	ug/l	99
84) 1,2,4-Trimethylbenzene	11.81	105	559571	99.68	ug/l	100
85) sec-Butylbenzene	11.95	105	638300	101.66	ug/l	100
86) p-Isopropyltoluene	12.07	119	585157	103.30	ug/l	100
87) 1,3-Dichlorobenzene	12.03	146	320288	97.12	ug/l	99
88) 1,4-Dichlorobenzene	12.10	146	325421	94.85	ug/l	100
89) n-Butylbenzene	12.39	91	513075	101.32	ug/l	100
90) Hexachloroethane	12.60	117	94575	108.48	ug/l	98
91) 1,2-Dichlorobenzene	12.40	146	324786	96.14	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	13.00	75	48868	97.27	ug/l	99

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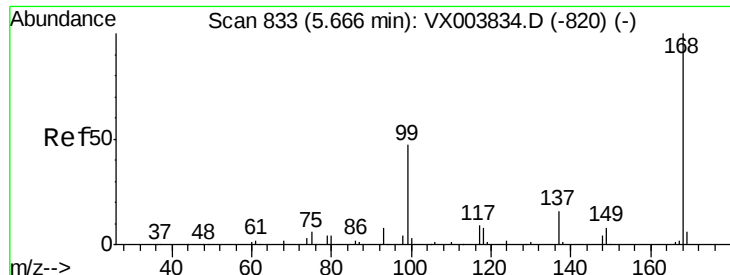
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	247676	102.78	ug/l	99
94) Hexachlorobutadiene	13.79	225	112094	103.08	ug/l	98
95) Naphthalene	13.83	128	751395	103.12	ug/l	100
96) 1,2,3-Trichlorobenzene	14.02	180	250984	102.35	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tot Ion:168 Resp: 109790

Ion Ratio Lower Upper

168 100

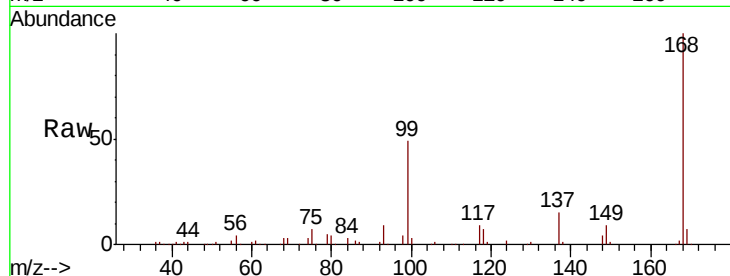
99 48.6 38.1 57.1

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

40000

30000

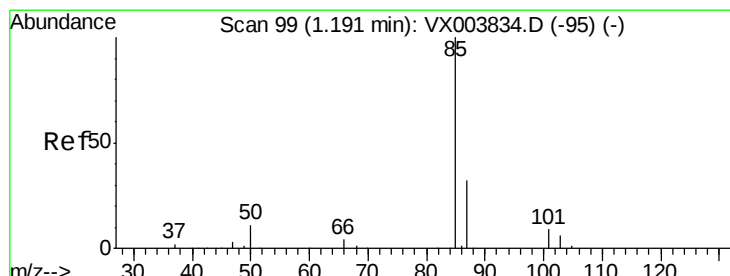
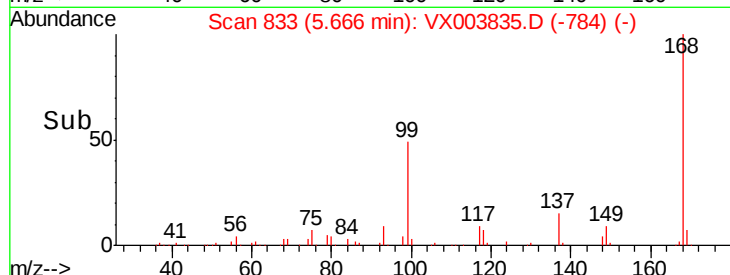
20000

10000

0

5.60 5.70 5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 91.44 ug/l

RT: 1.19 min Scan# 99

Delta R.T. 0.00 min

Lab File: VX003835.D

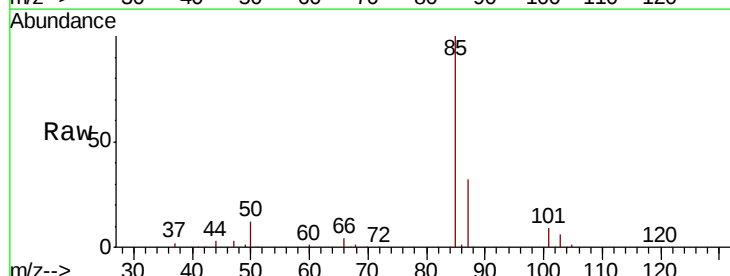
Acq: 02 Aug 2018 20:42

Tgt Ion: 85 Resp: 110857

Ion Ratio Lower Upper

85 100

87 31.8 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

120000

100000

80000

60000

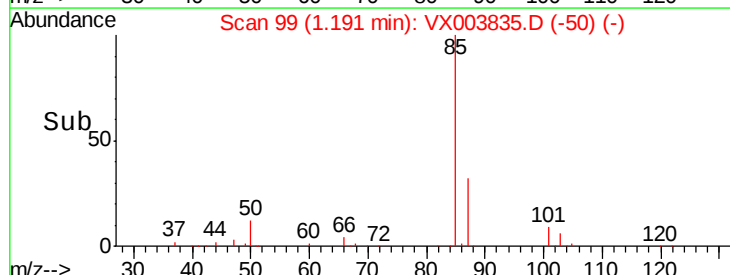
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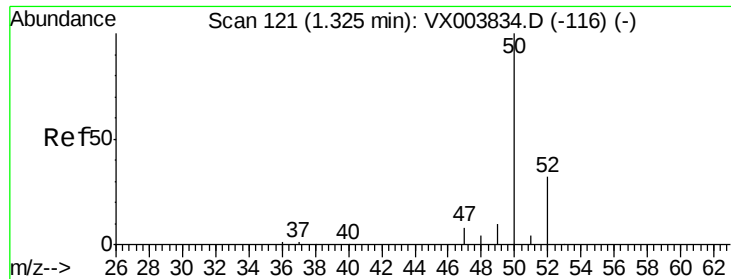
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0

1.15 1.20 1.25 1.30

Time-->





#3

Chloromethane

Concen: 87.67 ug/l

RT: 1.32 min Scan# 120

Delta R.T. -0.01 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tot Ion: 50 Resp: 146447

Ion Ratio Lower Upper

50 100

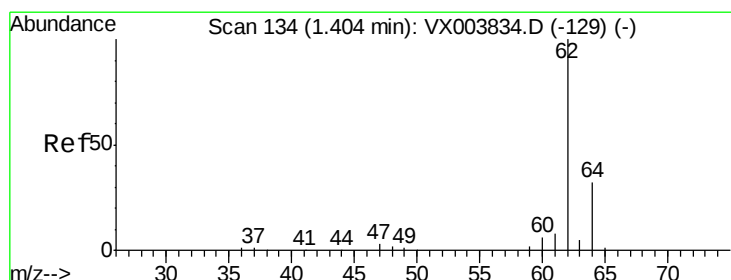
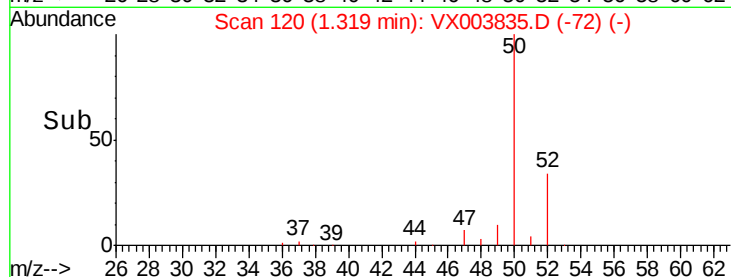
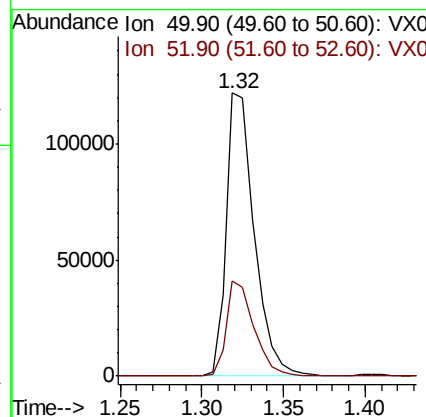
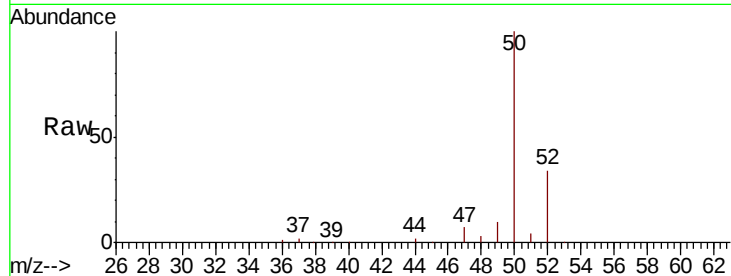
52 33.7 25.8 38.8

Manual Integrations

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#4

Vinyl Chloride

Concen: 83.09 ug/l

RT: 1.40 min Scan# 134

Delta R.T. 0.00 min

Lab File: VX003835.D

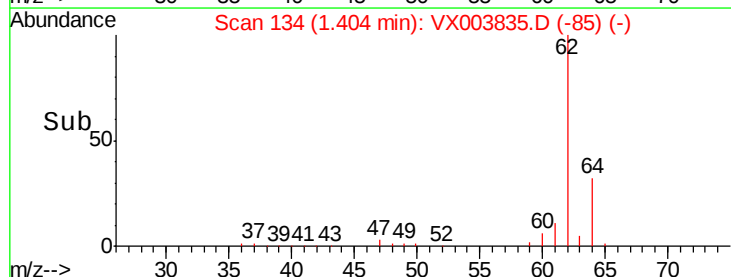
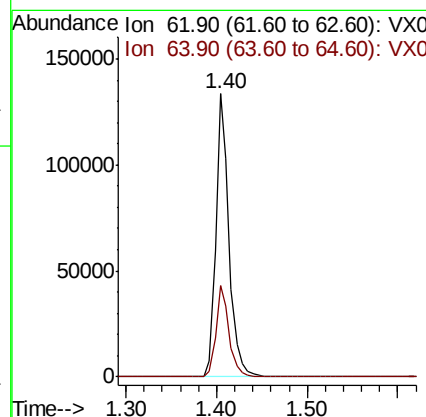
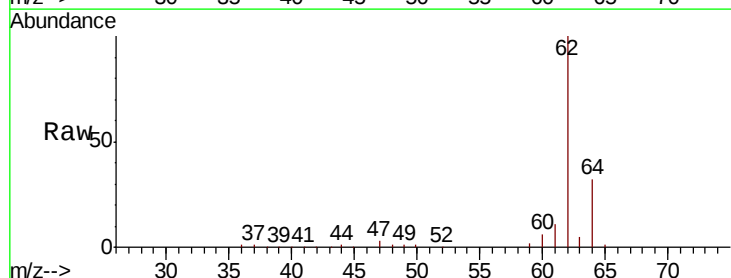
Acq: 02 Aug 2018 20:42

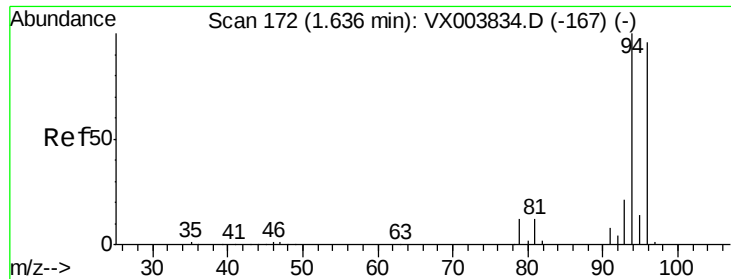
Tgt Ion: 62 Resp: 136302

Ion Ratio Lower Upper

62 100

64 32.1 25.3 37.9





#5

Bromomethane

Concen: 63.20 ug/l

RT: 1.64 min Scan# 172

Delta R.T. 0.00 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tot Ion: 94 Resp: 49678

Ion Ratio Lower Upper

94 100

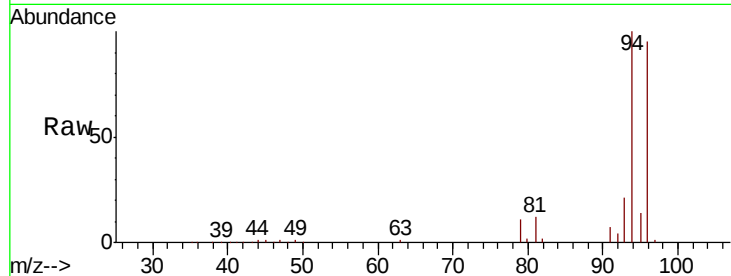
96 95.0 76.9 115.3

Manual Integrations

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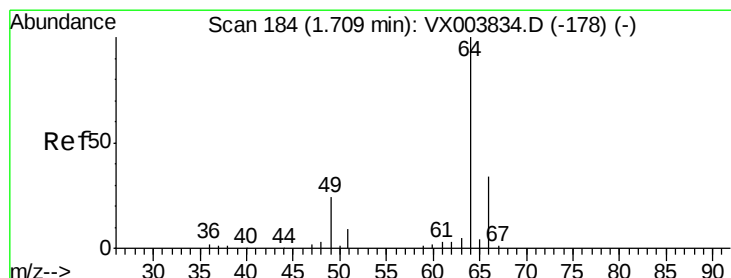
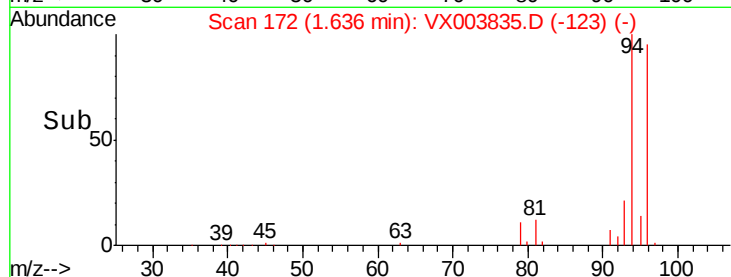
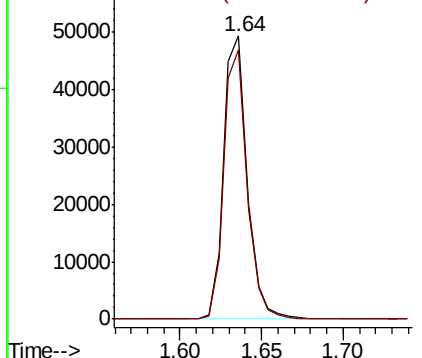
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Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 63.78 ug/l

RT: 1.70 min Scan# 183

Delta R.T. -0.01 min

Lab File: VX003835.D

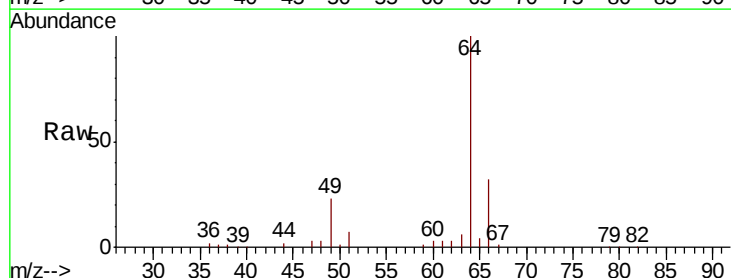
Acq: 02 Aug 2018 20:42

Tgt Ion: 64 Resp: 62367

Ion Ratio Lower Upper

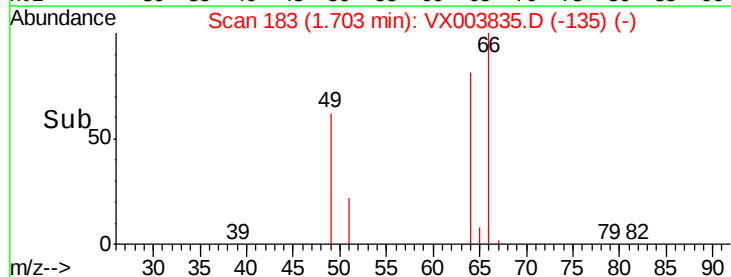
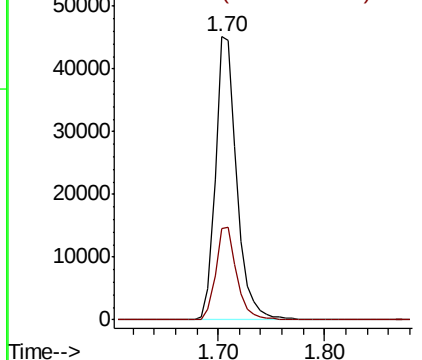
64 100

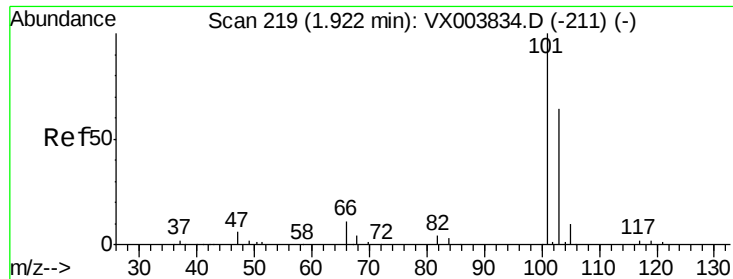
66 32.5 27.2 40.8



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#7

Trichlorofluoromethane

Concen: 71.14 ug/l

RT: 1.92 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

Instrument :

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VSTDICC100

Tot Ion:101 Resp: 148863

Ion Ratio Lower Upper

101 100

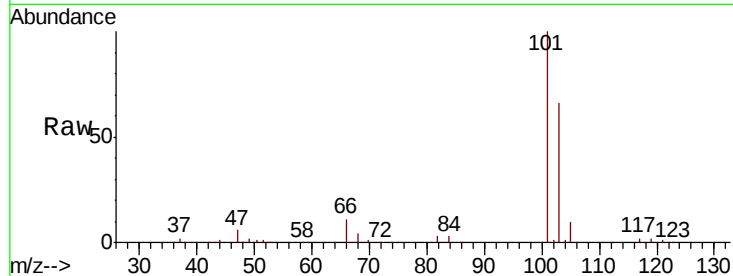
103 65.7 51.4 77.0

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Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

120000

100000

80000

60000

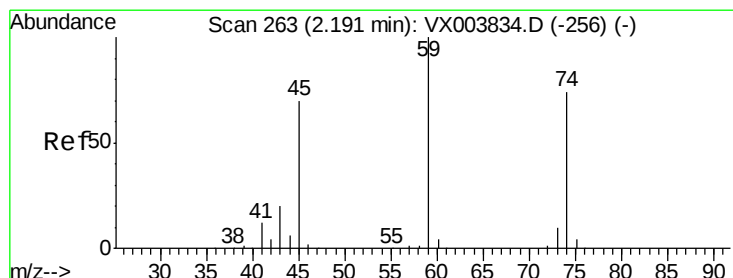
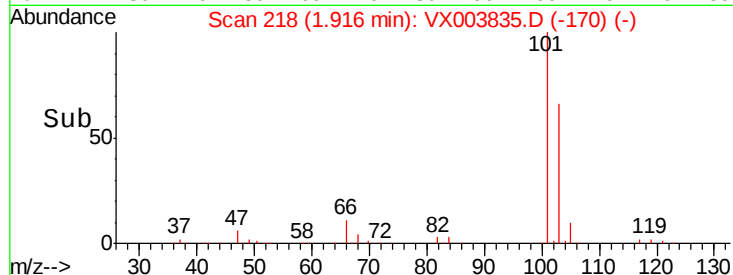
40000

20000

0

1.92

Time-->



#8

Diethyl Ether

Concen: 70.90 ug/l

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX003835.D

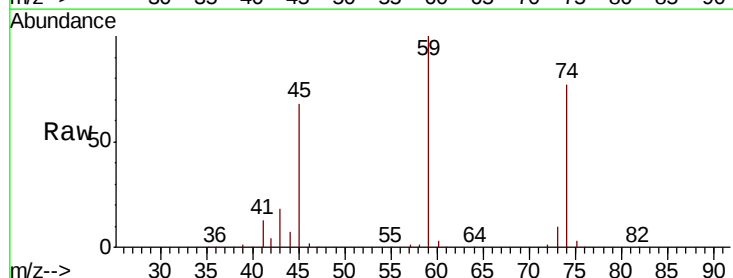
Acq: 02 Aug 2018 20:42

Tgt Ion: 74 Resp: 66893

Ion Ratio Lower Upper

74 100

45 94.5 48.4 145.2



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

50000

40000

30000

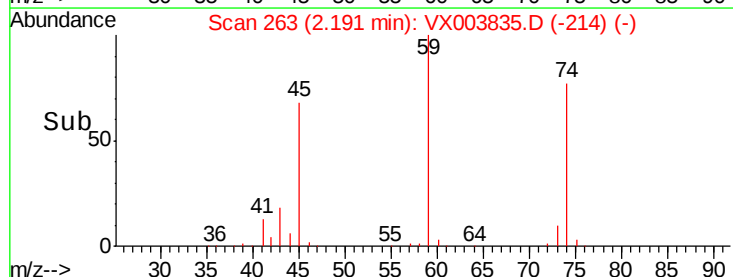
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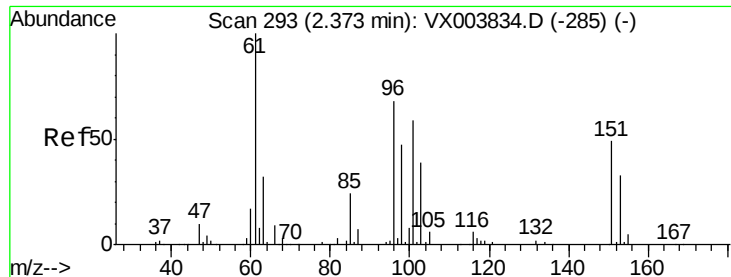
10000

0

2.19

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 84.57 ug/l

RT: 2.37 min Scan# 293

Delta R.T. 0.00 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

Instrument :

MSVOA_X

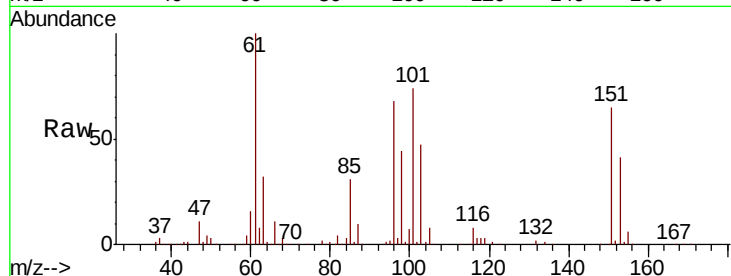
ClientSampleId :

VSTDIC100

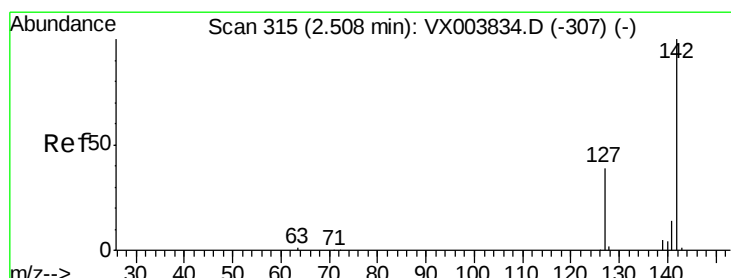
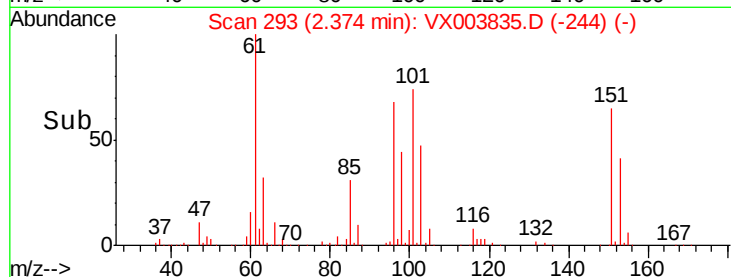
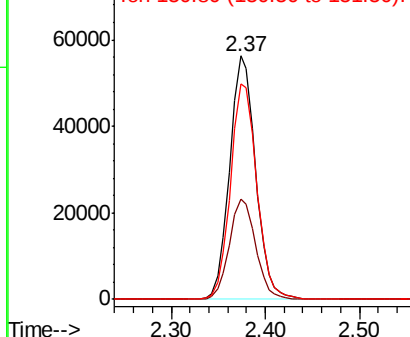
Tot Ion:	101	Resp:	107777
Ion Ratio	Lower	Upper	
101	100		
85	41.7	33.6	50.4
151	89.7	71.0	106.4

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: 94.87 ug/l

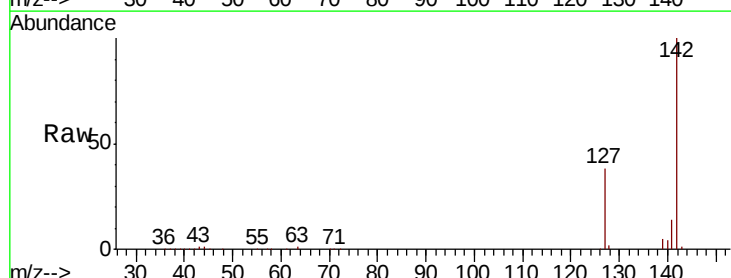
RT: 2.51 min Scan# 315

Delta R.T. 0.00 min

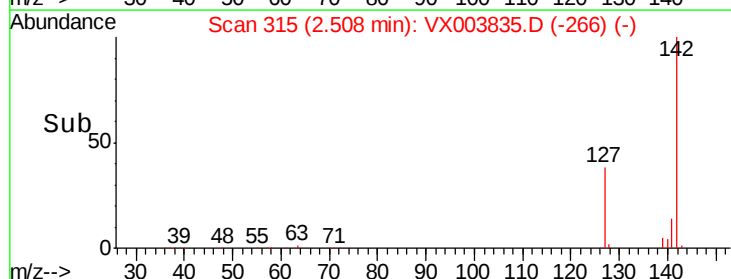
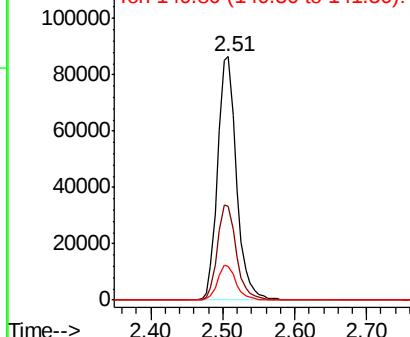
Lab File: VX003835.D

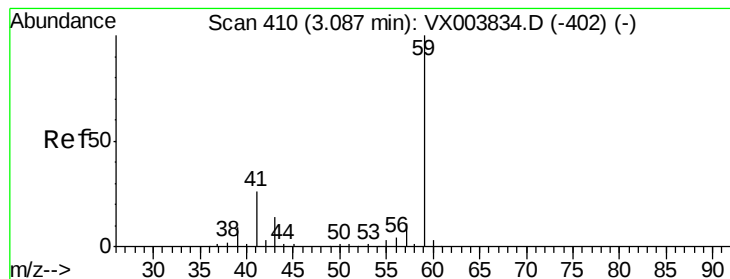
Acq: 02 Aug 2018 20:42

Tgt Ion:	142	Resp:	157307
Ion Ratio	Lower	Upper	
142	100		
127	39.3	31.8	47.8
141	14.1	11.3	16.9



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

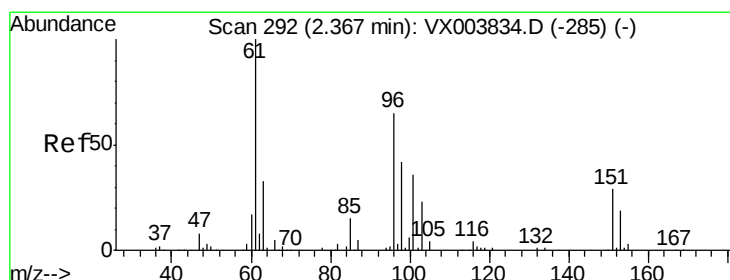
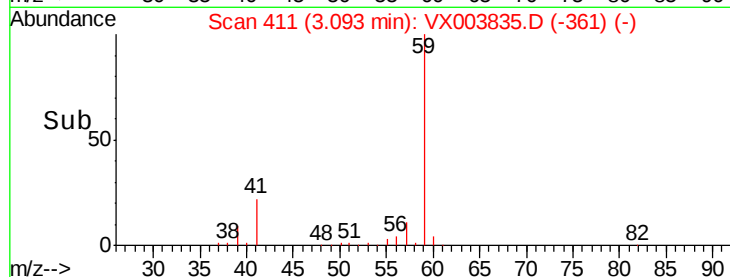
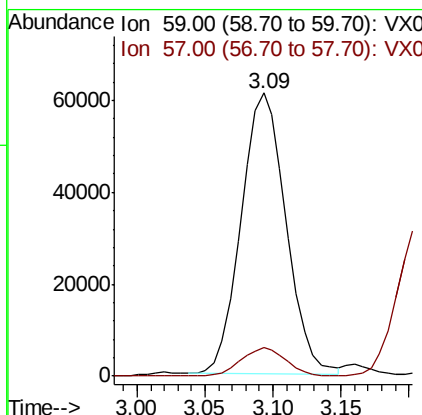
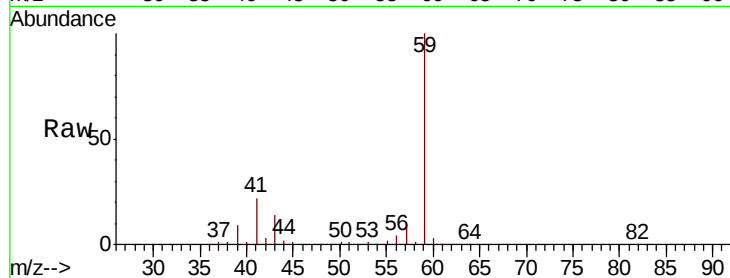
Tert butyl alcohol
Concen: 368.80 ug/l
RT: 3.09 min Scan# 411
Delta R.T. 0.01 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.2	12.4

Manual Integrations
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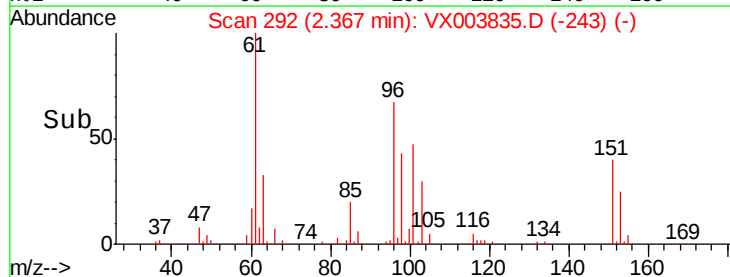
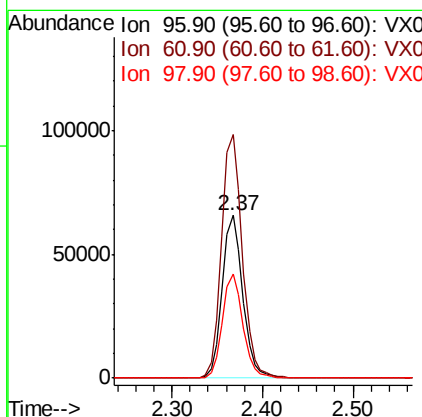
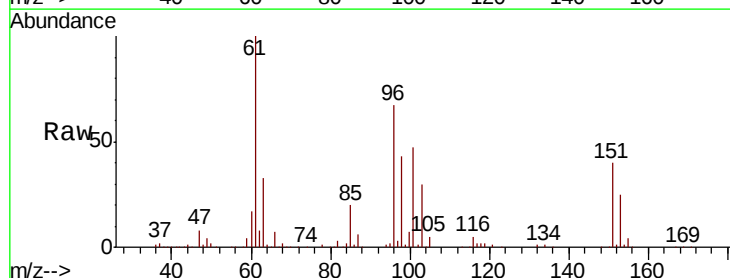
MMDadoda
8/6/2018 1:35:50 PM

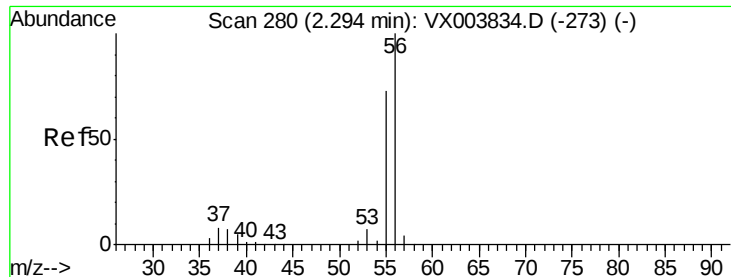


#12

1,1-Dichloroethene
Concen: 83.73 ug/l
RT: 2.37 min Scan# 292
Delta R.T. 0.00 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Tgt Ion	Ratio	Lower	Upper
96	100		
61	149.4	122.8	184.2
98	63.7	51.8	77.8





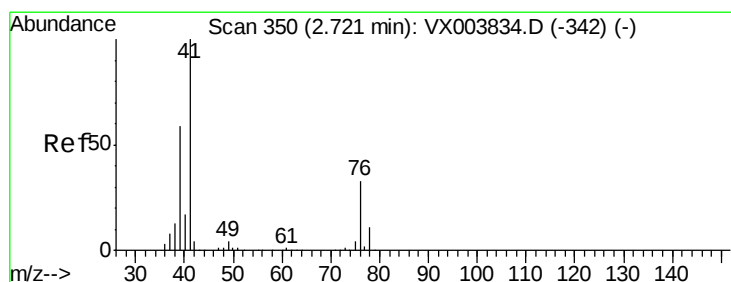
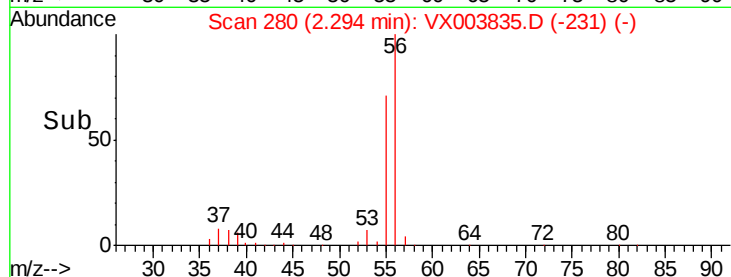
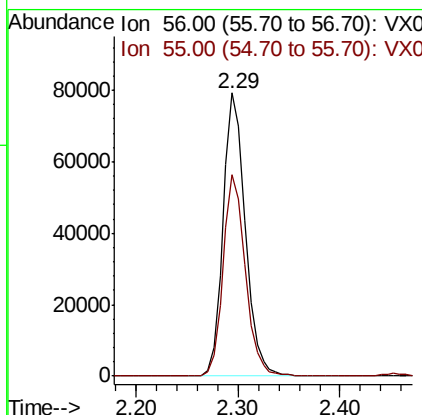
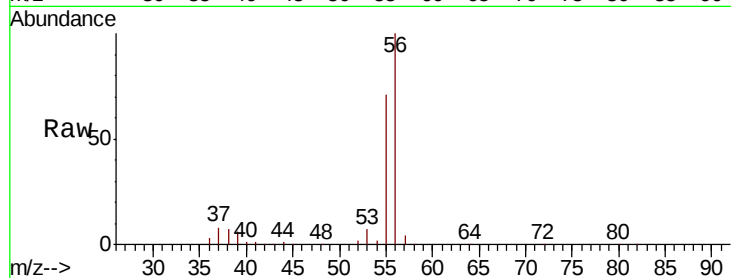
#13
Acrolein
Concen: 601.86 ug/l
RT: 2.29 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tot Ion	56	55	Ratio	100	Resp	120441	Lower	Upper
56	100							
55	71.1				57.7	86.5		

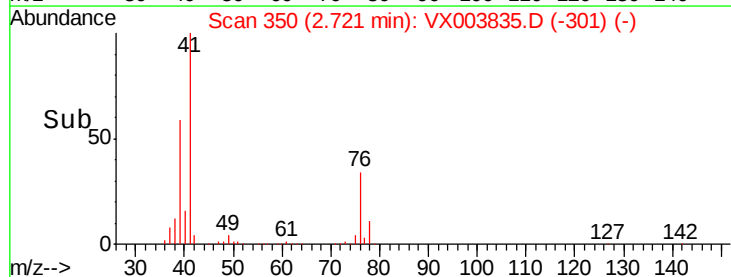
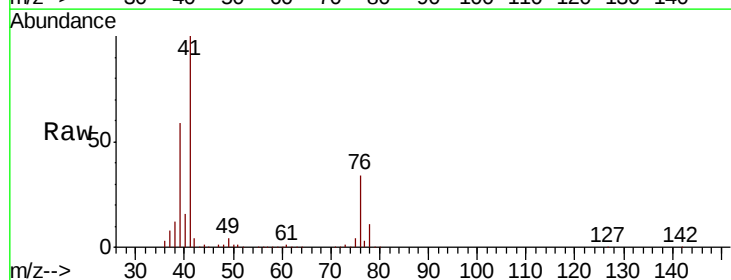
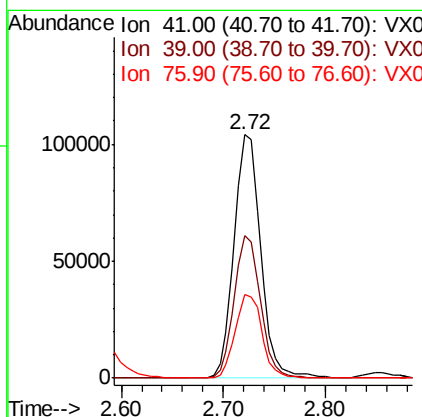
Manual Integrations
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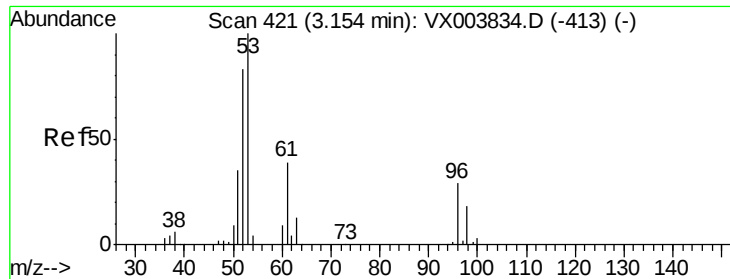
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#14
Allyl chloride
Concen: 73.41 ug/l
RT: 2.72 min Scan# 350
Delta R.T. 0.00 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Tgt Ion	41	39	76	Ratio	100	Resp	188637	Lower	Upper
41	100								
39	57.6				46.1	69.1			
76	34.5				26.8	40.2			





#15

Acrylonitrile

Concen: 359.90 ug/l

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

Instrument :

MSVOA_X

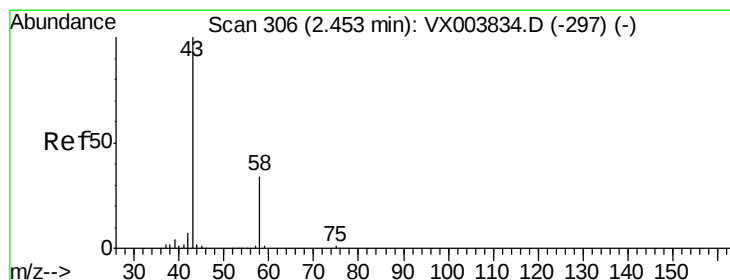
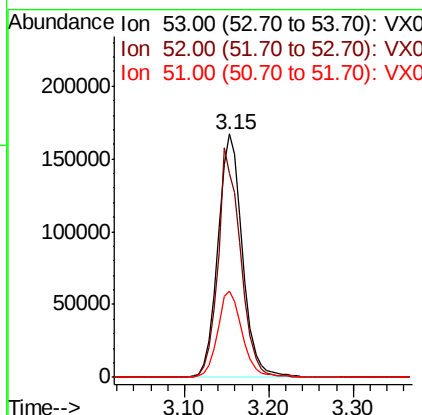
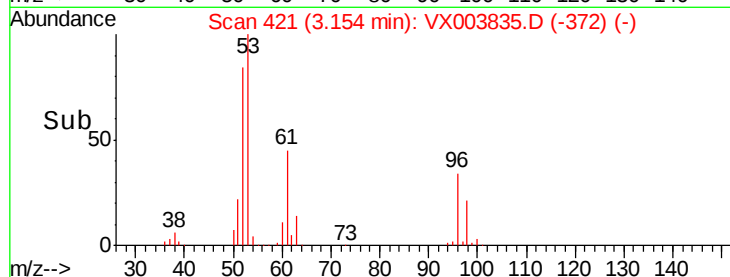
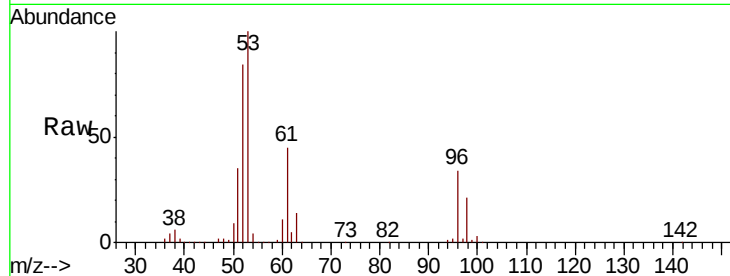
ClientSampleId :

VSTDIC100

Tot Ion:	53	Resp:	333420
Ion Ratio	Lower	Upper	
53	100		
52	87.3	65.9	98.9
51	35.9	28.6	43.0

Manual Integrations
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#16

Acetone

Concen: 421.92 ug/l

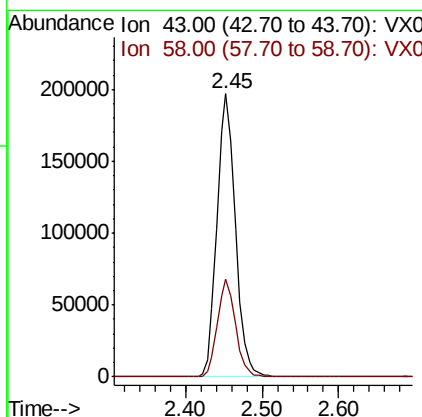
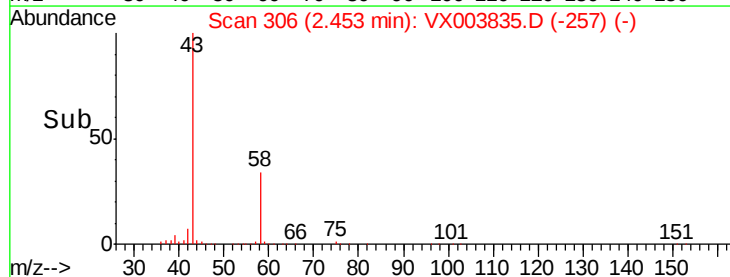
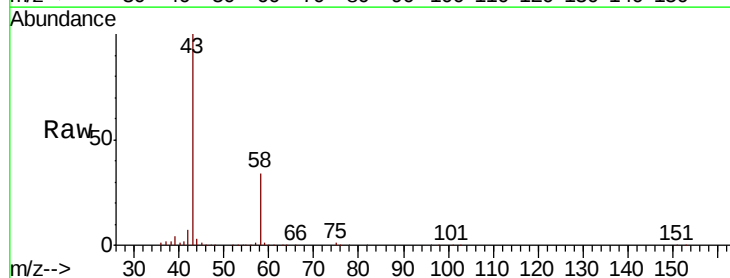
RT: 2.45 min Scan# 306

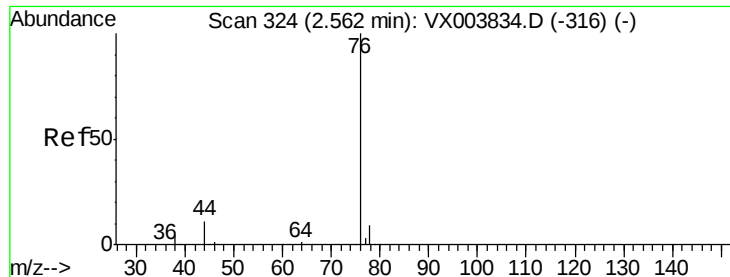
Delta R.T. 0.00 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

Tgt Ion:	43	Resp:	328981
Ion Ratio	Lower	Upper	
43	100		
58	34.4	27.0	40.4





#17

Carbon Disulfide

Concen: 83.67 ug/l

RT: 2.56 min Scan# 324

Delta R.T. 0.00 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tot Ion: 76 Resp: 298730

Ion Ratio Lower Upper

76 100

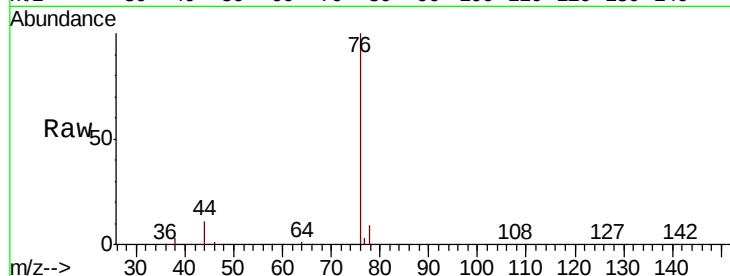
78 9.5 7.4 11.0

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

200000

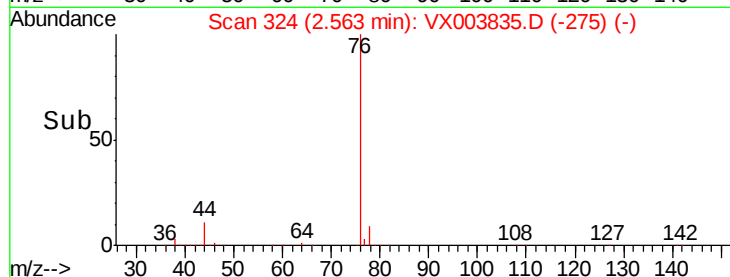
150000

100000

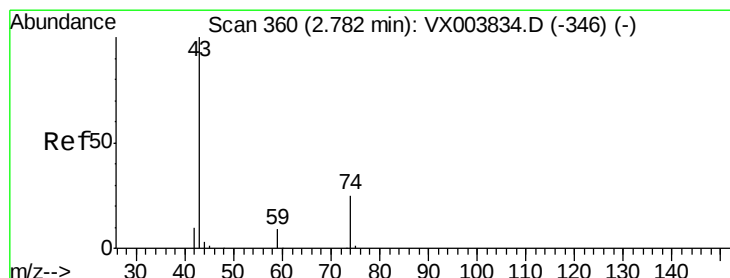
50000

0

Time-->



Time-->



#18

Methyl Acetate

Concen: 65.16 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX003835.D

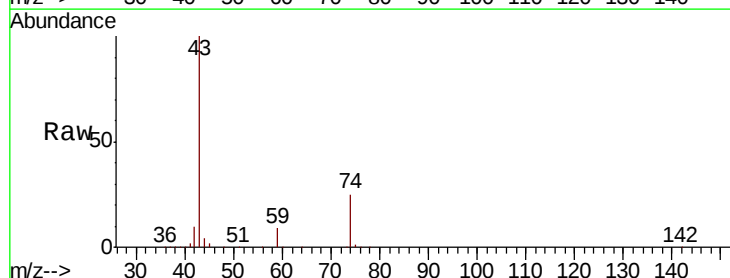
Acq: 02 Aug 2018 20:42

Tgt Ion: 43 Resp: 146928

Ion Ratio Lower Upper

43 100

74 24.7 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

80000

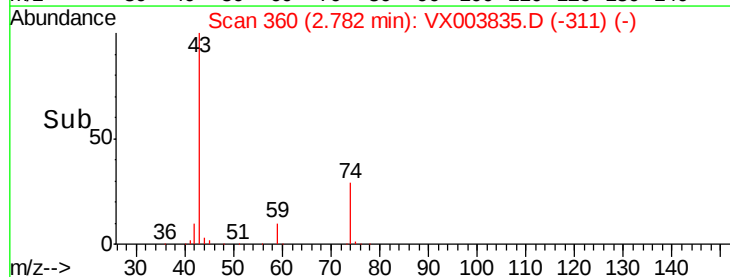
60000

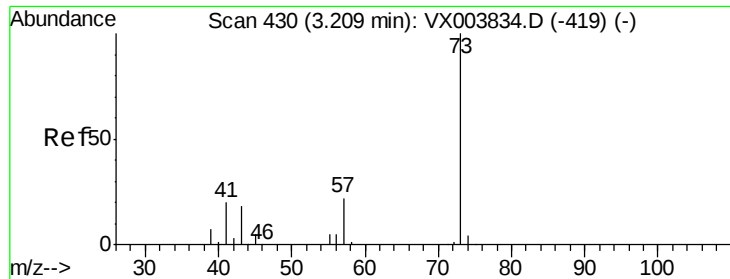
40000

20000

0

Time-->





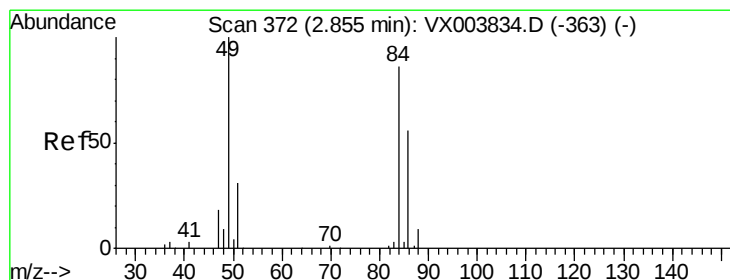
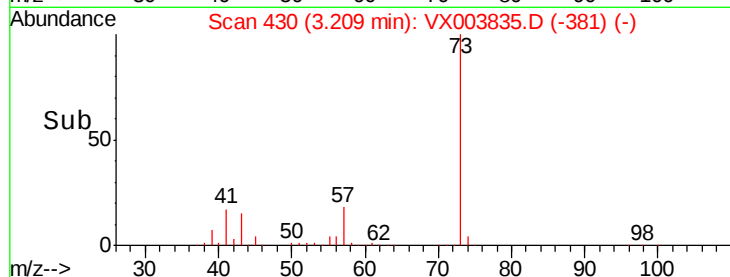
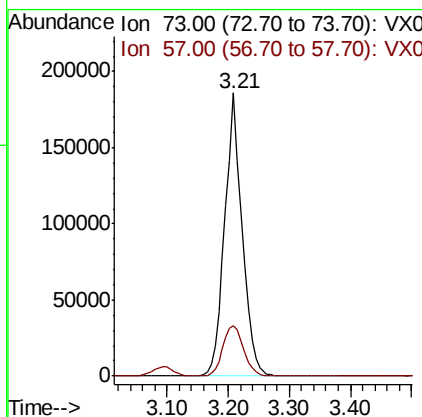
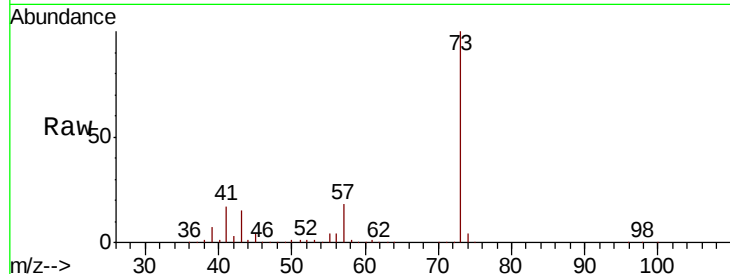
#19
Methvl tert-butvl Ether
Concen: 82.06 ug/l
RT: 3.21 min Scan# 430
Delta R.T. 0.00 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
73	100		
57	17.9	17.5	26.3

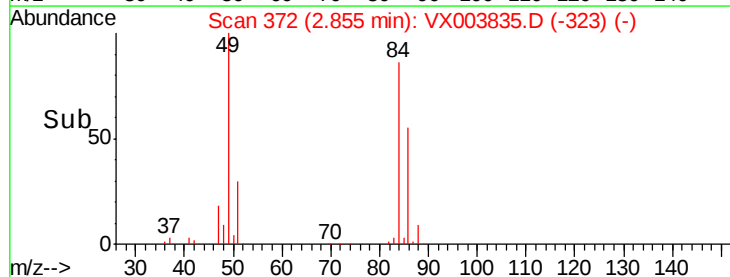
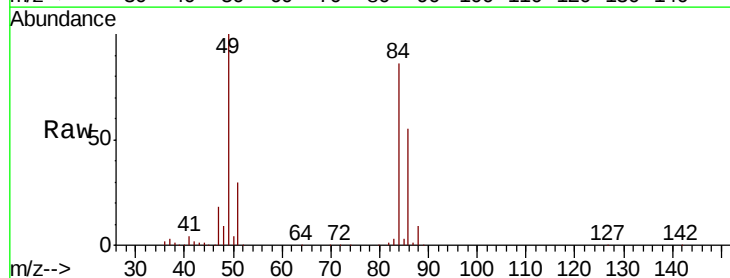
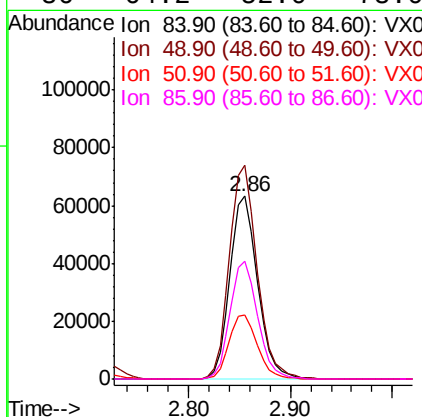
Manual Integrations
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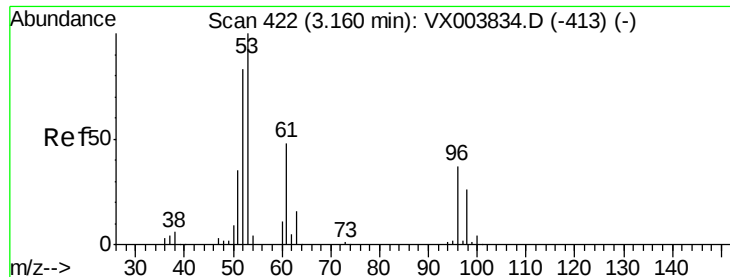
MMDadoda
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#20
Methylene Chloride
Concen: 79.14 ug/l
RT: 2.86 min Scan# 372
Delta R.T. 0.00 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Tgt Ion	Ratio	Lower	Upper
84	100		
49	116.9	93.2	139.8
51	35.1	29.2	43.8
86	64.2	52.0	78.0





#21

trans-1,2-Dichloroethene

Concen: 83.90 ug/l

RT: 3.16 min Scan# 422

Delta R.T. 0.00 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

Instrument :

MSVOA_X

ClientSampled :

VSTDIC100

Tot Ion: 96 Resp: 113270

Ion Ratio Lower Upper

96 100

61 134.9 104.2 156.4

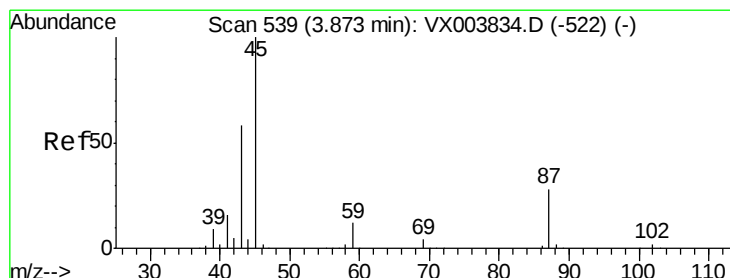
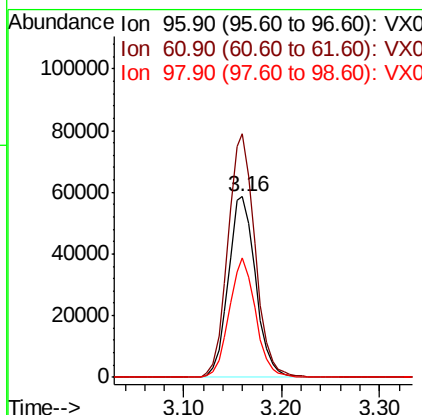
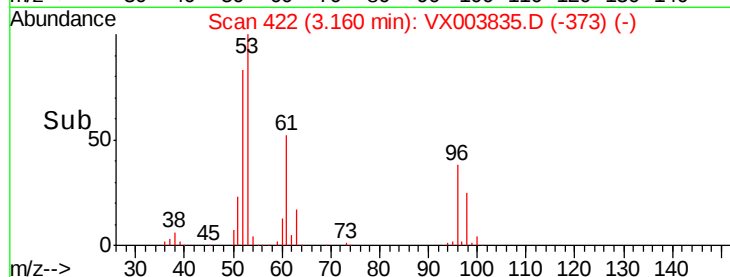
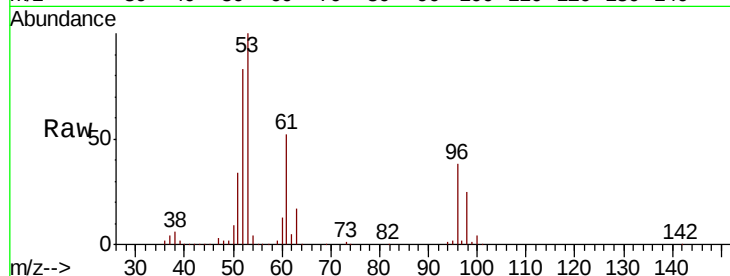
98 66.1 57.0 85.6

Manual Integrations

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#22

Diisopropyl ether

Concen: 78.31 ug/l

RT: 3.88 min Scan# 540

Delta R.T. 0.01 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

Tgt Ion: 45 Resp: 371021

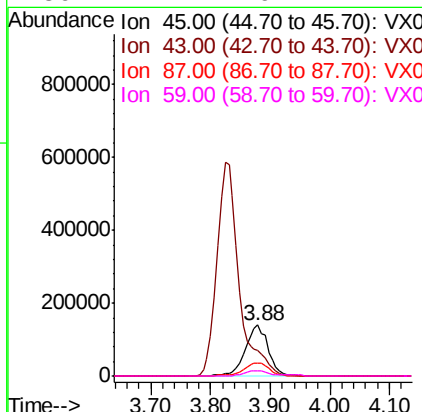
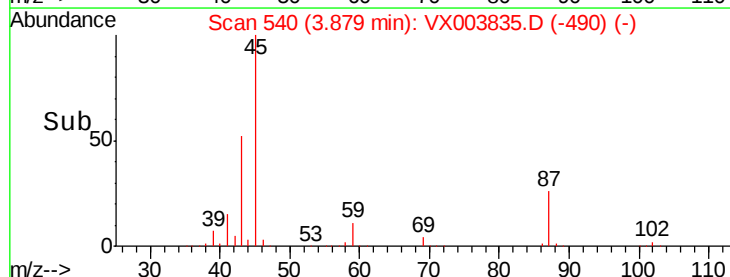
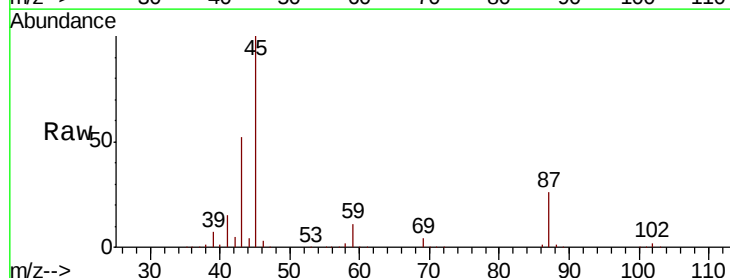
Ion Ratio Lower Upper

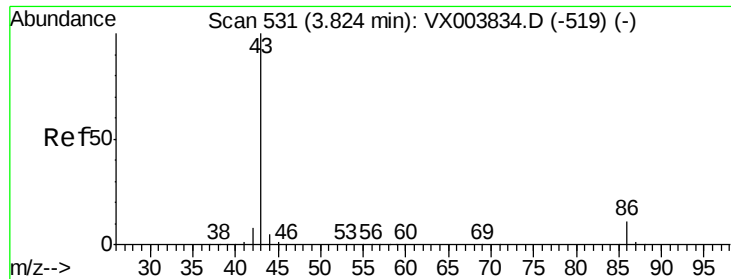
45 100

43 51.5 46.4 69.6

87 26.4 22.4 33.6

59 11.1 9.4 14.2





#23

Vinyl Acetate

Concen: 374.85 ug/l

RT: 3.82 min Scan# 531

Delta R.T. 0.00 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 1523582

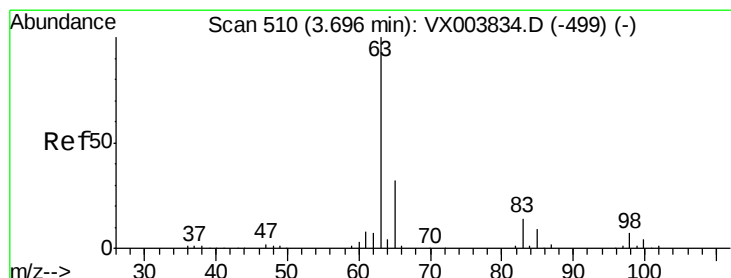
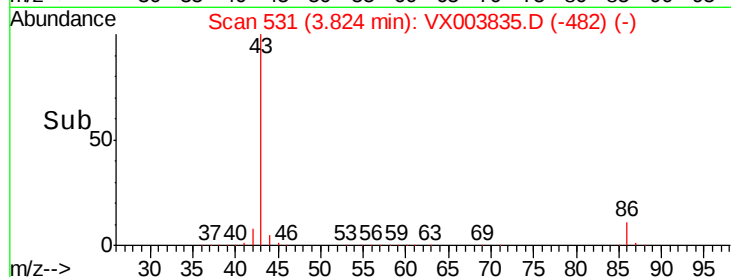
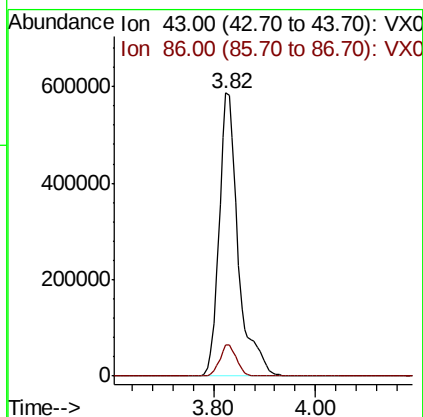
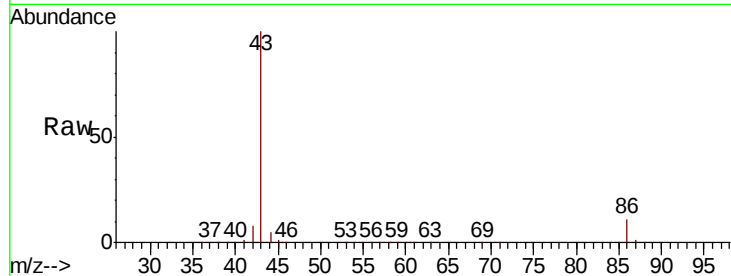
Ion Ratio Lower Upper

43 100

86 10.9 8.8 13.2

Manual Integrations
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#24

1,1-Dichloroethane

Concen: 76.20 ug/l

RT: 3.70 min Scan# 510

Delta R.T. 0.00 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

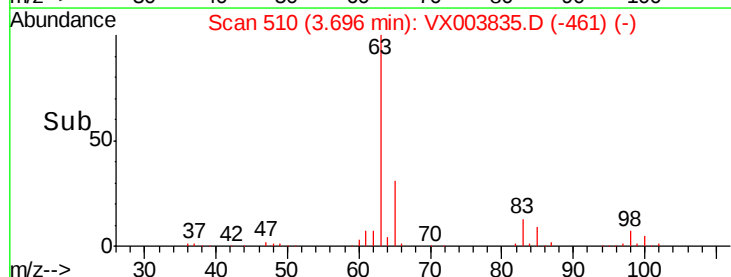
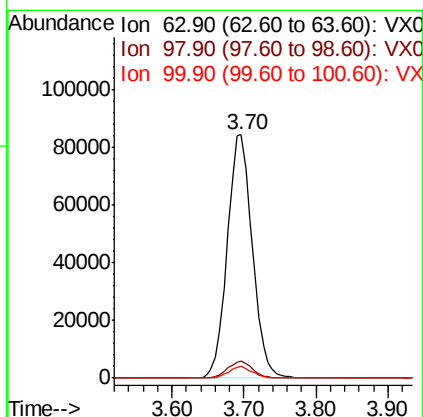
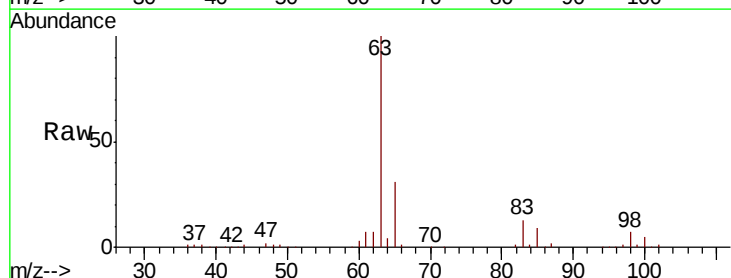
Tgt Ion: 63 Resp: 204406

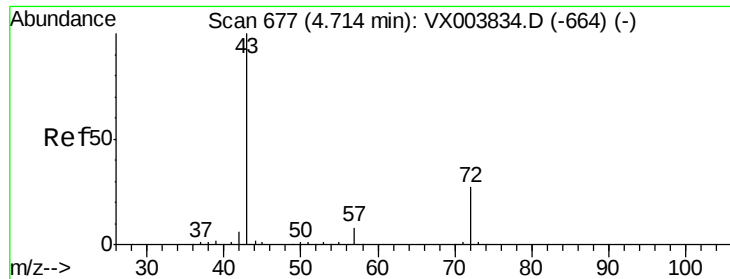
Ion Ratio Lower Upper

63 100

98 7.2 3.3 9.9

100 4.8 2.3 6.8





#25

2-Butanone

Concen: 483.62 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.00 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 595200

Ion Ratio Lower Upper

43 100

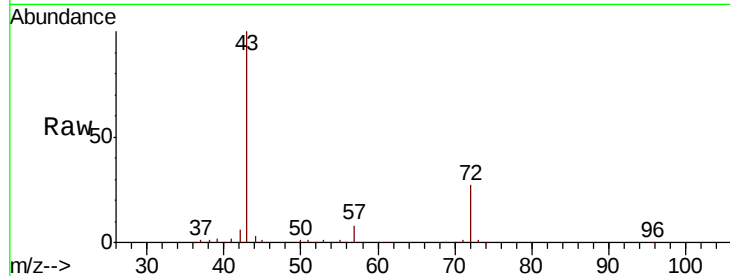
72 27.1 21.5 32.3

Manual Integrations

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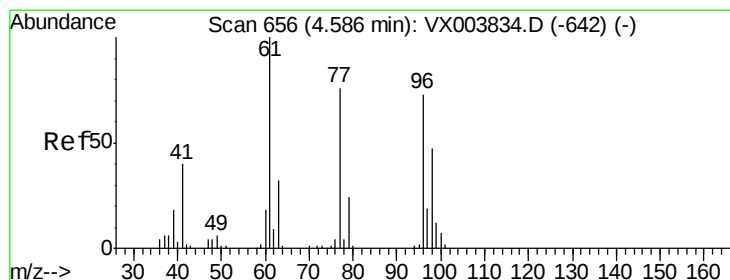
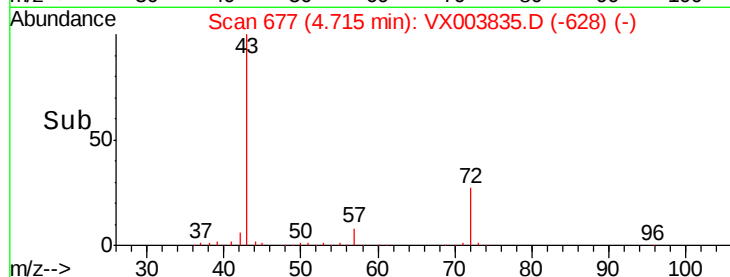
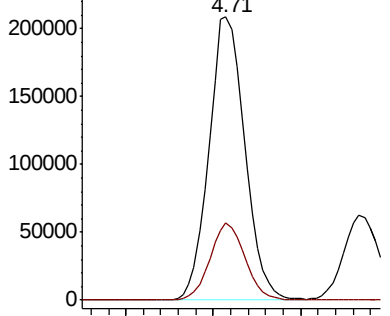
MMDadoda

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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: 82.86 ug/l

RT: 4.58 min Scan# 655

Delta R.T. -0.01 min

Lab File: VX003835.D

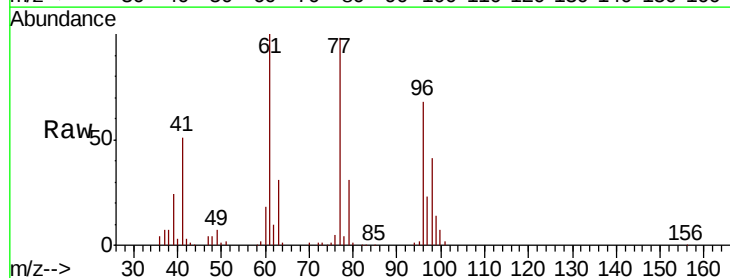
Acq: 02 Aug 2018 20:42

Tgt Ion: 77 Resp: 139634

Ion Ratio Lower Upper

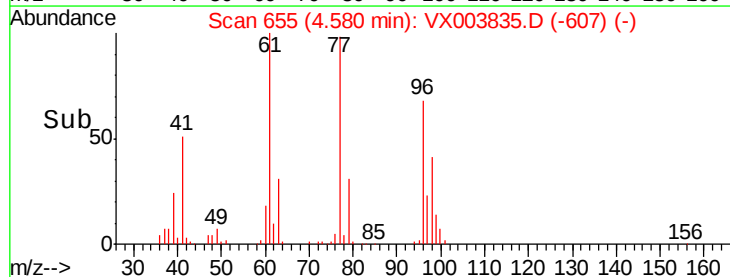
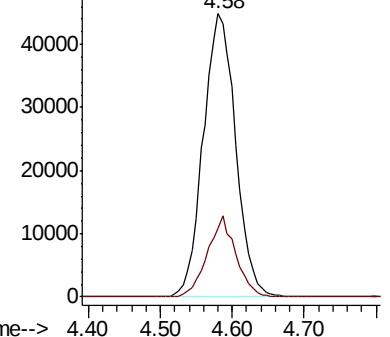
77 100

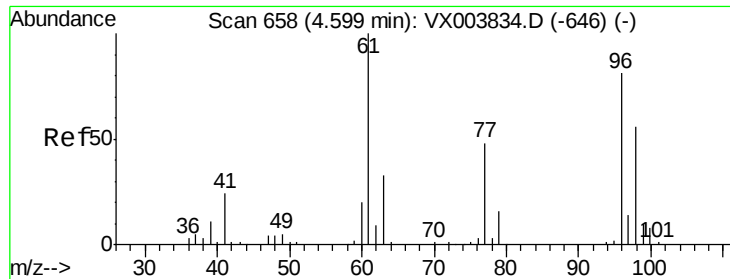
97 25.1 12.8 38.3



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0





#27

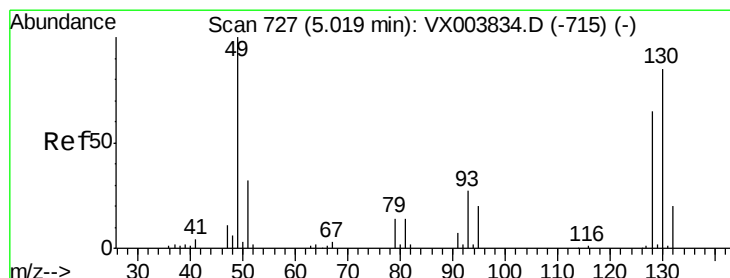
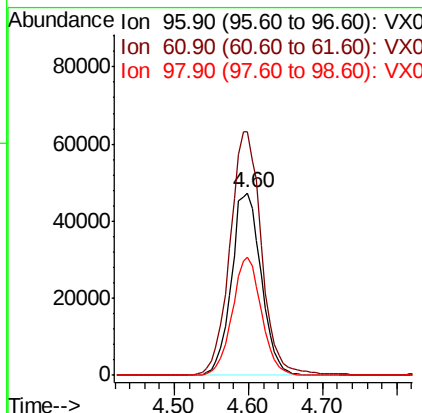
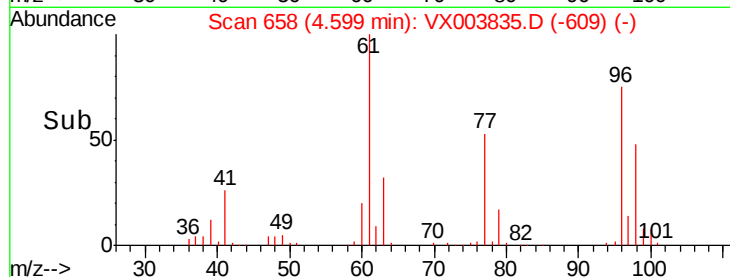
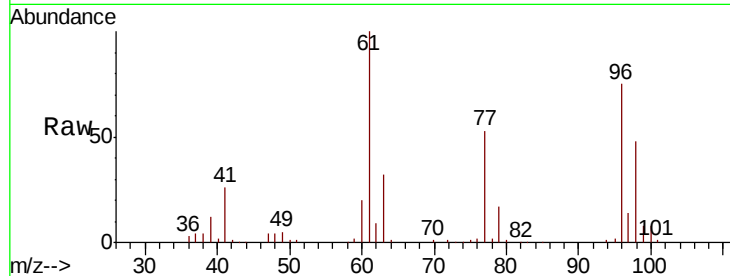
cis-1,2-Dichloroethene
Concen: 88.87 ug/l
RT: 4.60 min Scan# 658
Delta R.T. 0.00 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
96	100	132481		
61	142.0	0.0	283.6	
98	63.5	0.0	130.0	

Manual Integrations
APPROVED

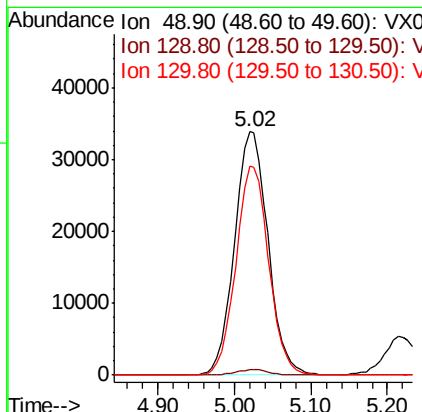
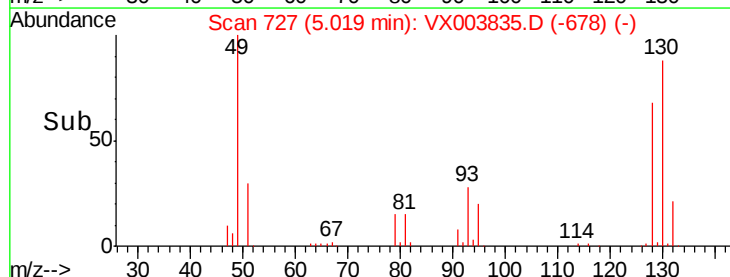
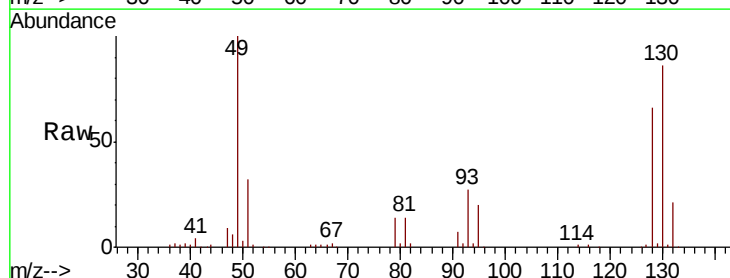
MMDadoda
8/6/2018 1:35:50 PM

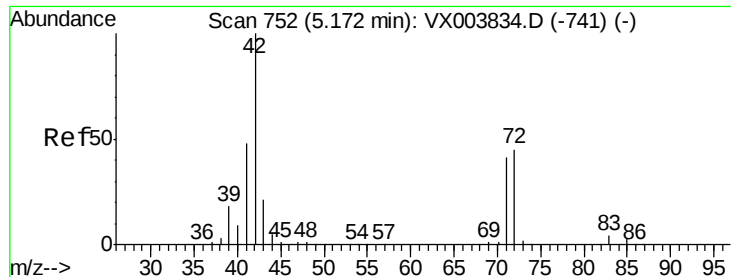


#28

Bromochloromethane
Concen: 91.65 ug/l
RT: 5.02 min Scan# 727
Delta R.T. 0.00 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	102789		
129	2.2	0.0	4.2	
130	84.2	68.9	103.3	





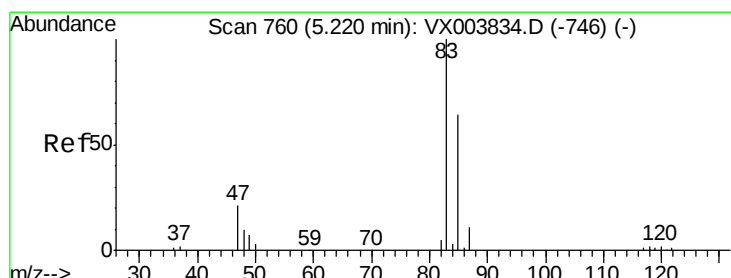
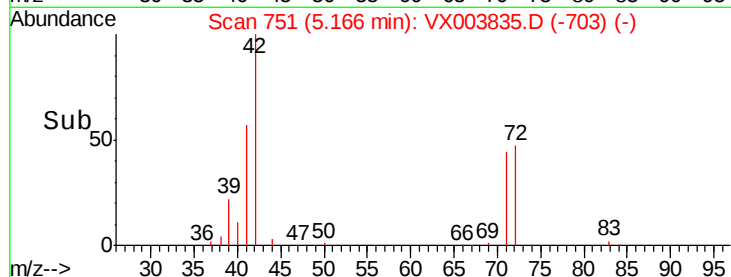
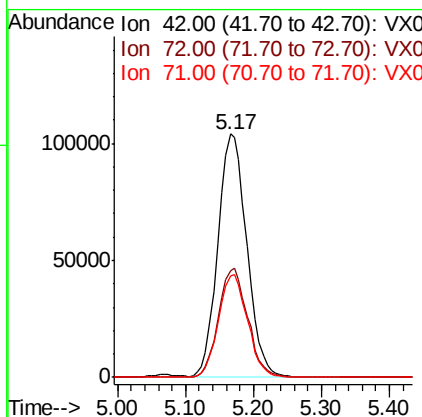
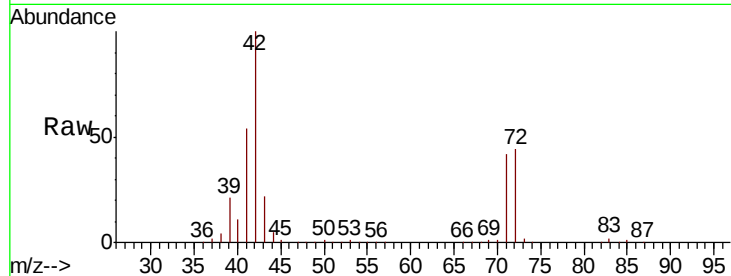
#29
Tetrahydrofuran
Concen: 401.06 ug/l
RT: 5.17 min Scan# 751
Delta R.T. -0.01 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.4	36.1	54.1
71	42.4	33.6	50.4

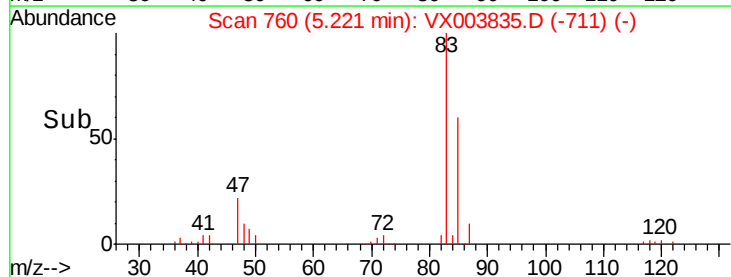
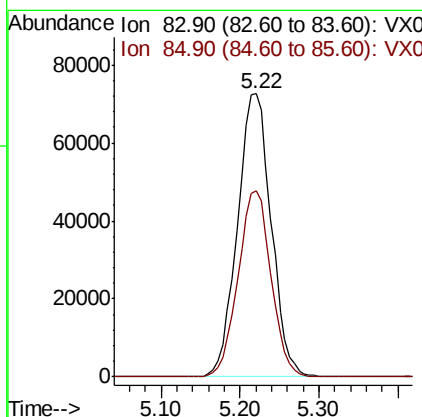
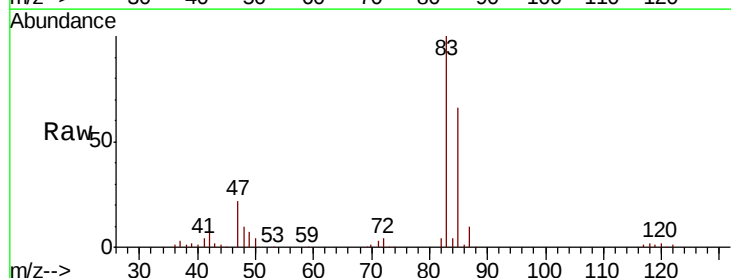
Manual Integrations
APPROVED

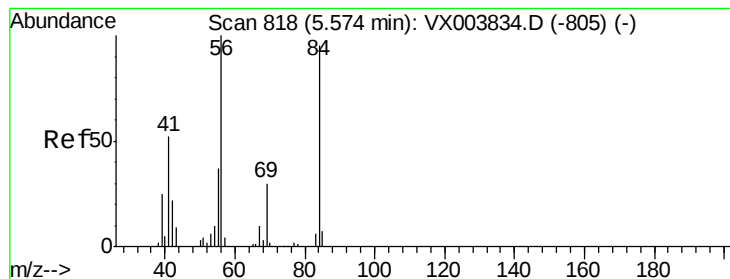
MMDadoda
8/6/2018 1:35:50 PM



#30
Chloroform
Concen: 86.95 ug/l
RT: 5.22 min Scan# 760
Delta R.T. 0.00 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.9	51.5	77.3





#31

Cyclohexane

Concen: 93.72 ug/l

RT: 5.57 min Scan# 818

Delta R.T. 0.00 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tot Ion: 56 Resp: 196205

Ion Ratio Lower Upper

56 100

69 30.9 23.7 35.5

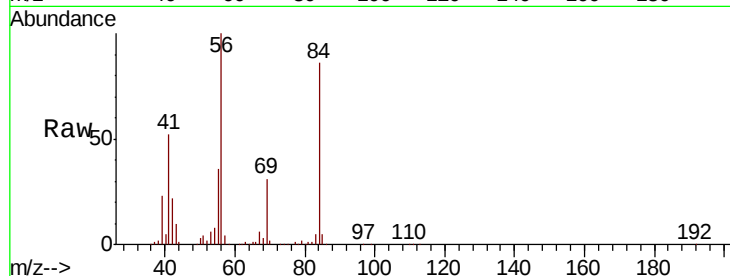
84 85.3 75.7 113.5

Manual Integrations

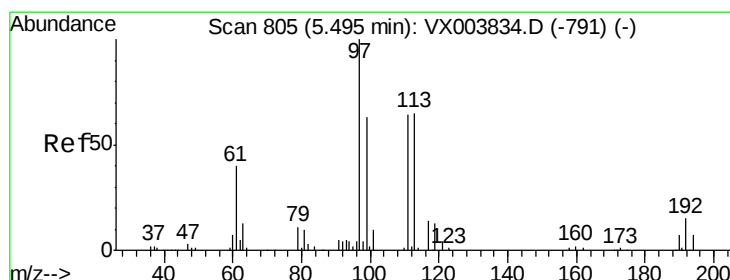
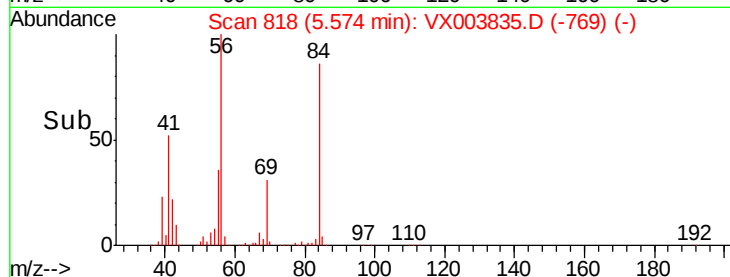
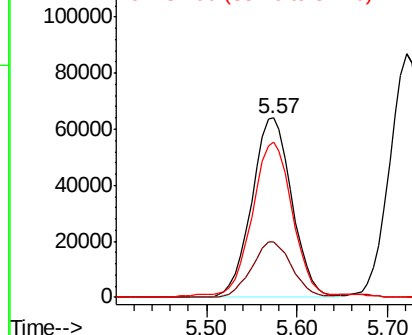
APPROVED

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Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0



#32

1,1,1-Trichloroethane

Concen: 91.63 ug/l

RT: 5.49 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

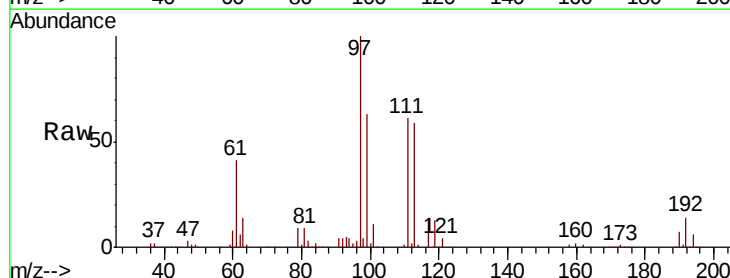
Tgt Ion: 97 Resp: 186113

Ion Ratio Lower Upper

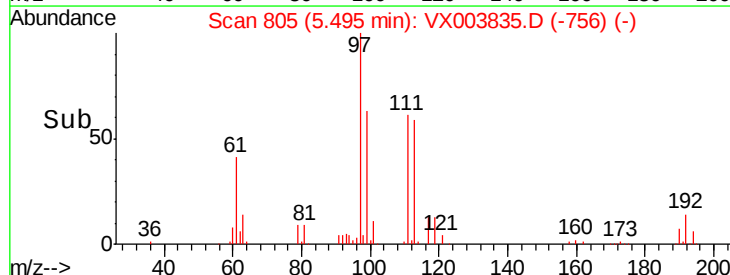
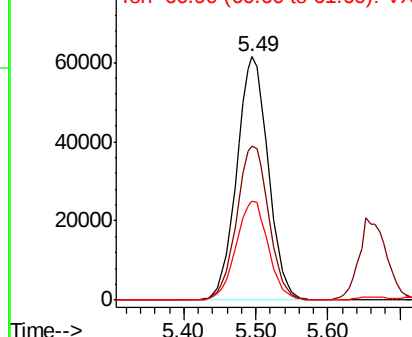
97 100

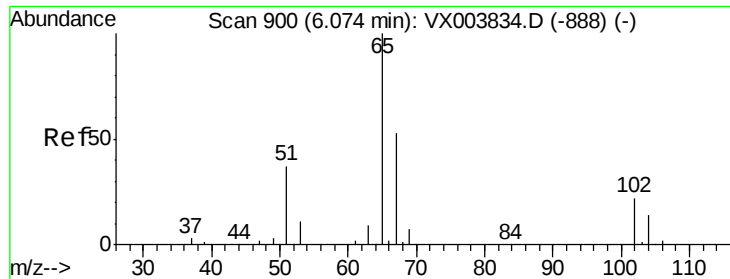
99 64.7 51.8 77.6

61 41.5 33.3 49.9



Abundance Ion 96.90 (96.60 to 97.60): VX0
Ion 98.90 (98.60 to 99.60): VX0
Ion 60.90 (60.60 to 61.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 85.37 ug/l

RT: 6.07 min Scan# 899

Delta R.T. -0.01 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tot Ion: 65 Resp: 139404

Ion Ratio Lower Upper

65 100

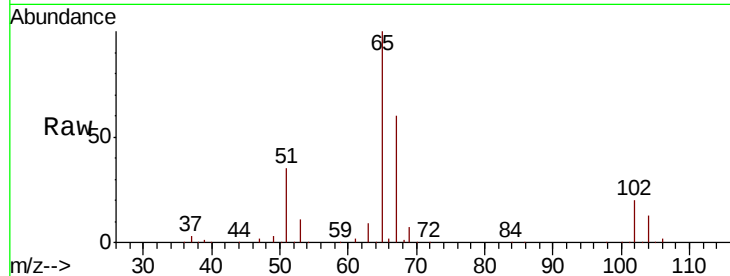
67 54.8 0.0 107.2

Manual Integrations

APPROVED

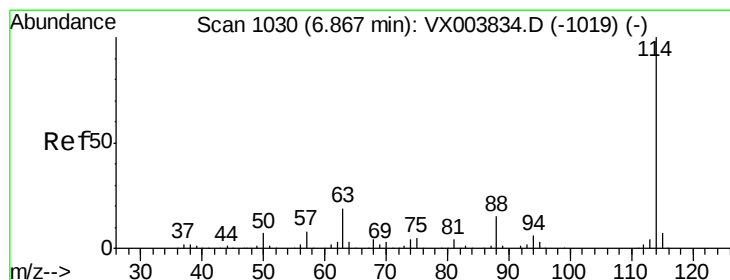
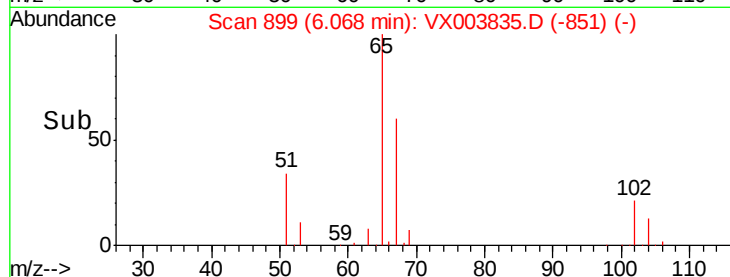
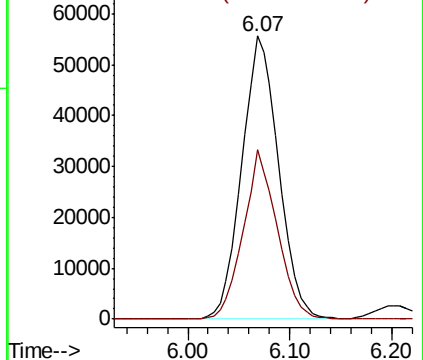
MMDadoda

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Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.86 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

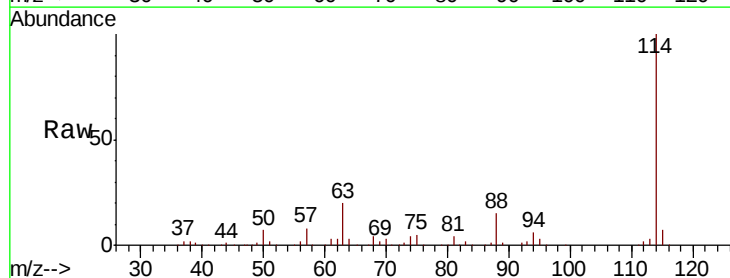
Tgt Ion: 114 Resp: 155500

Ion Ratio Lower Upper

114 100

63 20.5 0.0 38.2

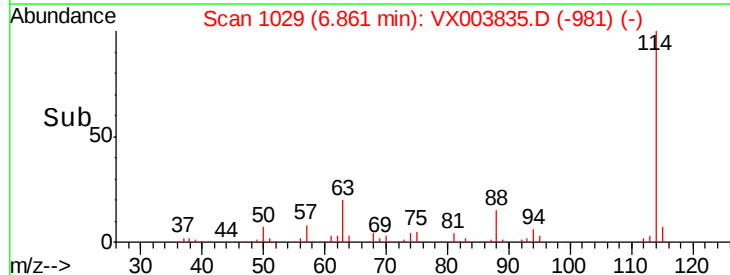
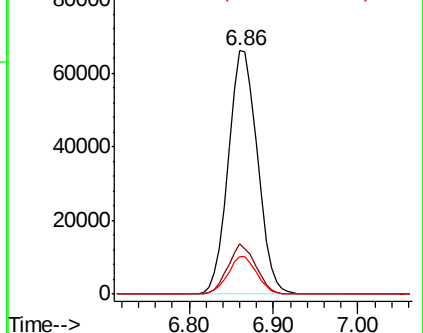
88 15.4 0.0 29.6

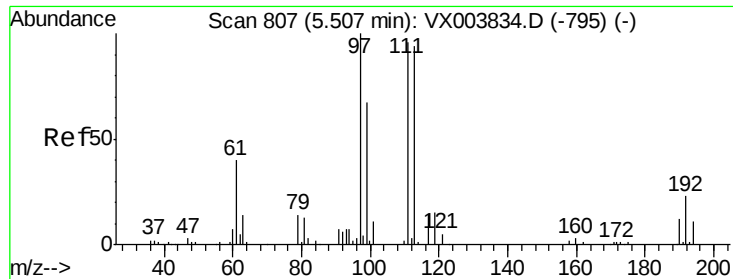


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





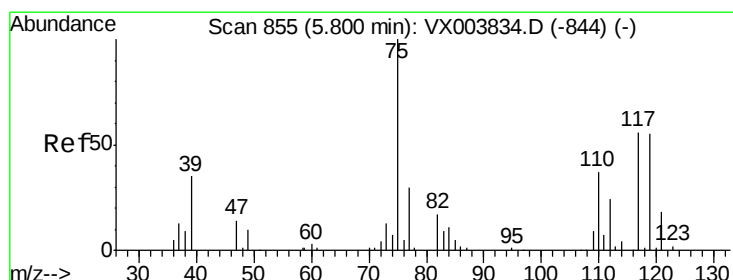
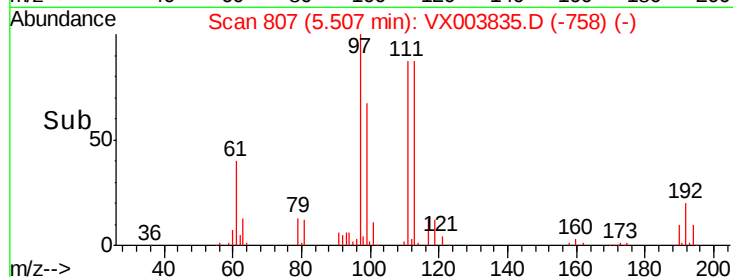
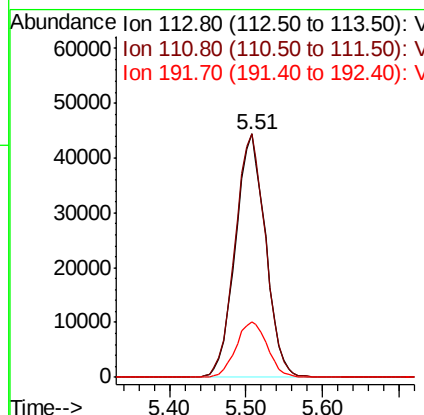
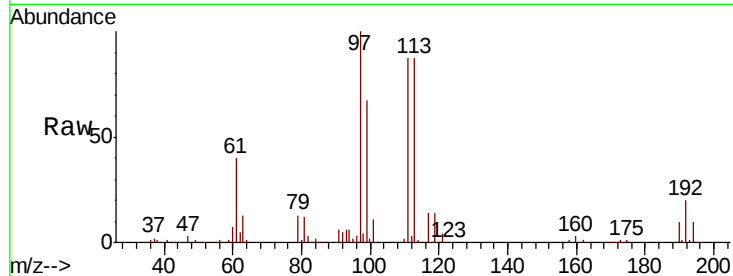
#35
Dibromofluoromethane
Concen: 95.13 ug/l
RT: 5.51 min Scan# 807
Delta R.T. 0.00 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
113	100	120868		
111	101.3	81.1	121.7	
192	23.8	19.7	29.5	

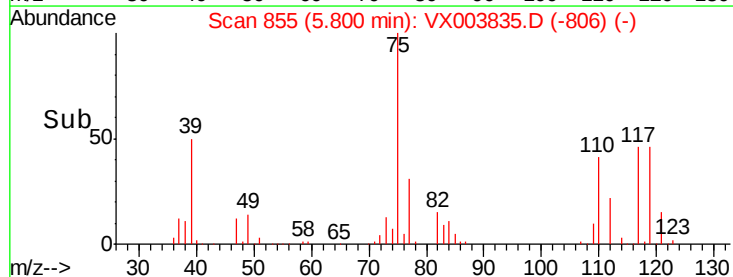
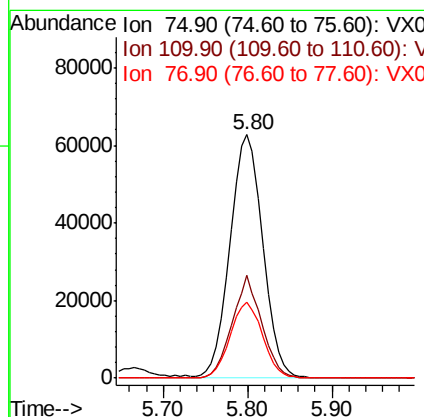
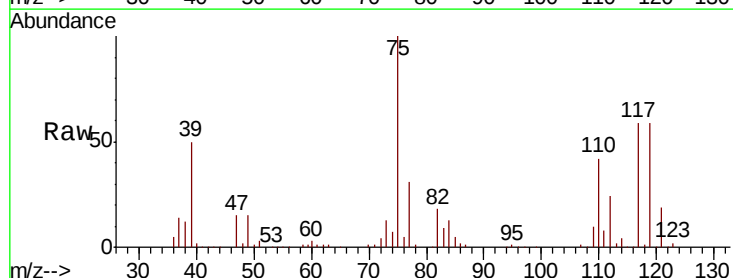
Manual Integrations
APPROVED

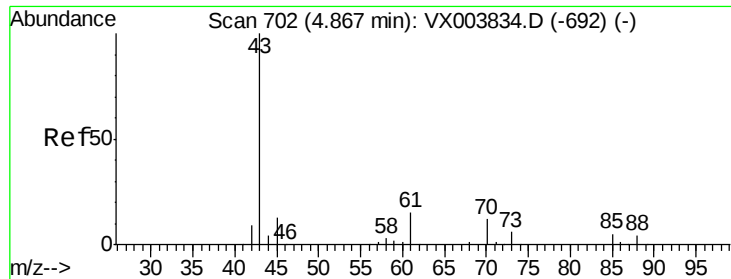
MMDadoda
8/6/2018 1:35:50 PM



#36
1,1-Dichloropropene
Concen: 93.59 ug/l
RT: 5.80 min Scan# 855
Delta R.T. 0.00 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	166355		
110	37.5	18.6	55.8	
77	31.0	24.9	37.3	





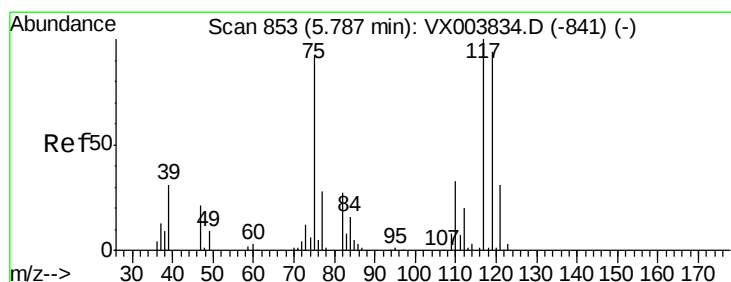
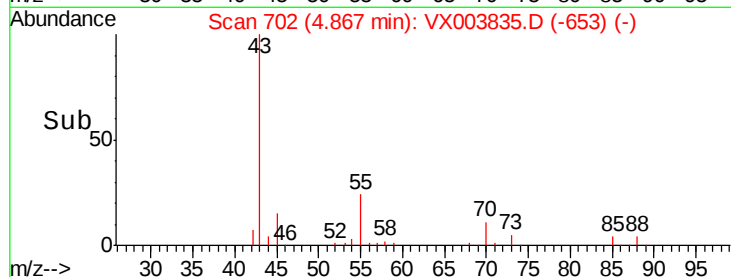
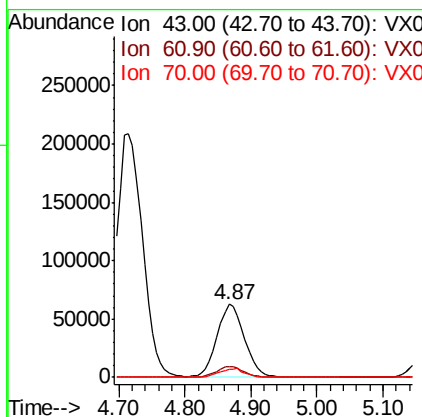
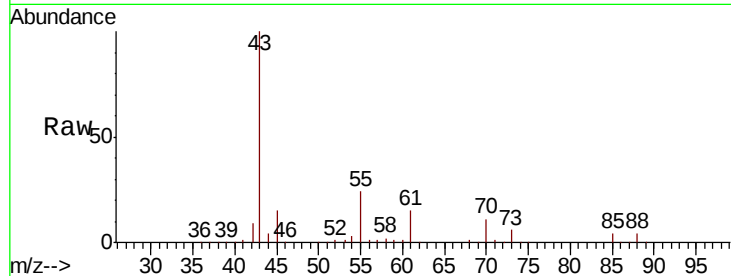
#37
Ethyl Acetate
Concen: 82.81 ug/l
RT: 4.87 min Scan# 702
Delta R.T. 0.00 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.1	12.4	18.6
70	11.3	8.9	13.3

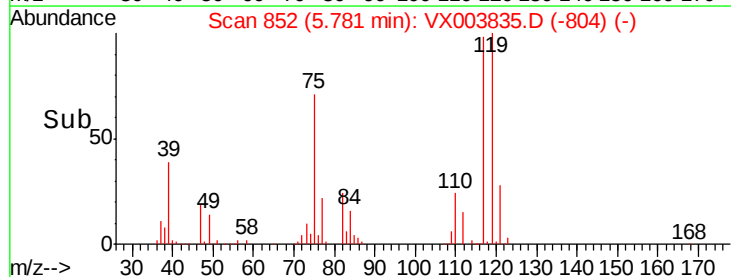
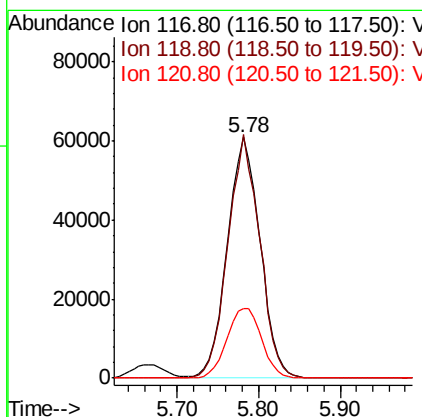
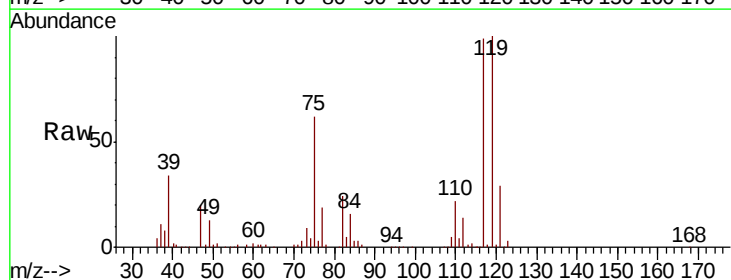
Manual Integrations
APPROVED

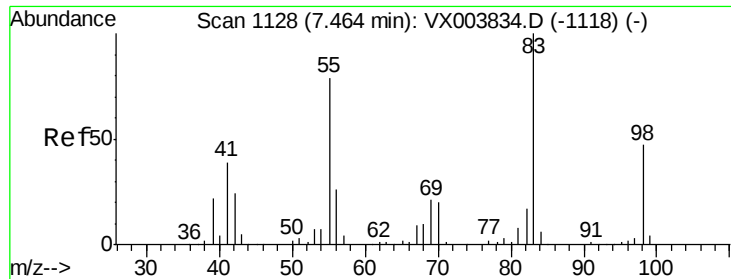
MMDadoda
8/6/2018 1:35:50 PM



#38
Carbon Tetrachloride
Concen: 98.98 ug/l
RT: 5.78 min Scan# 852
Delta R.T. -0.01 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Tgt Ion	Ratio	Lower	Upper
117	100		
119	101.1	74.6	112.0
121	29.0	24.4	36.6





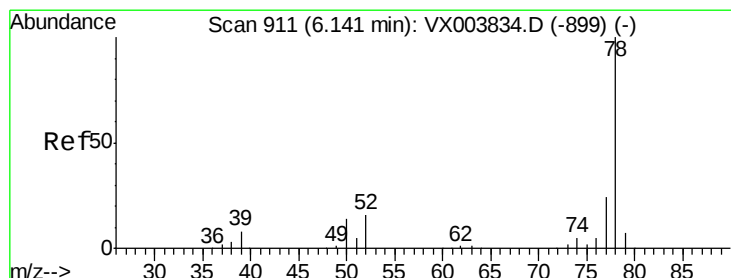
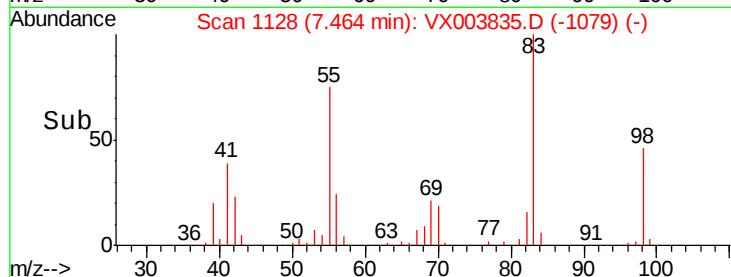
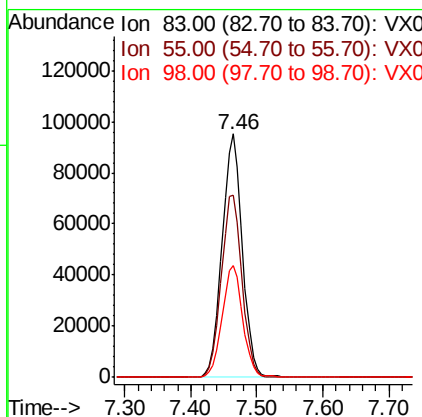
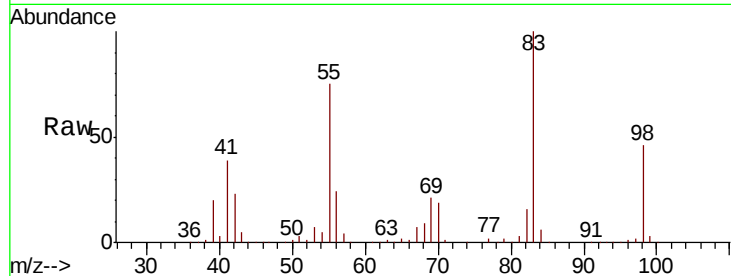
#39
Methvlcvclohexane
Concen: 106.36 ug/l
RT: 7.46 min Scan# 1128
Delta R.T. 0.00 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tot Ion	Ratio	Lower	Upper
83	100		
55	75.0	63.1	94.7
98	45.7	37.5	56.3

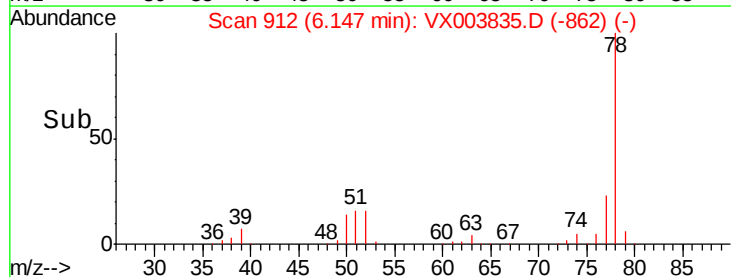
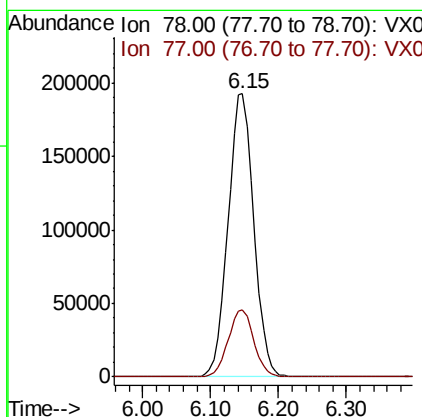
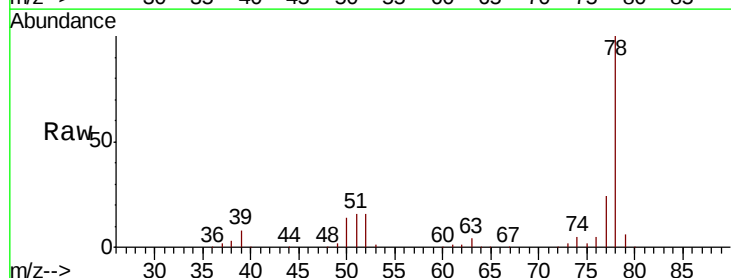
Manual Integrations
APPROVED

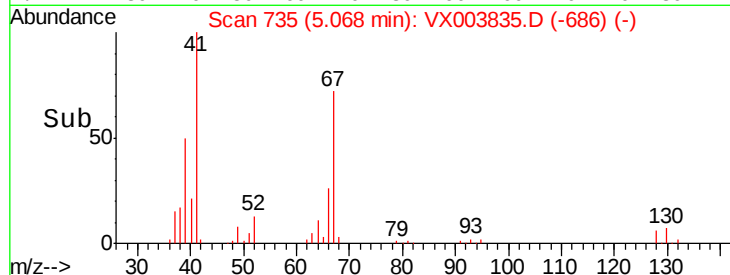
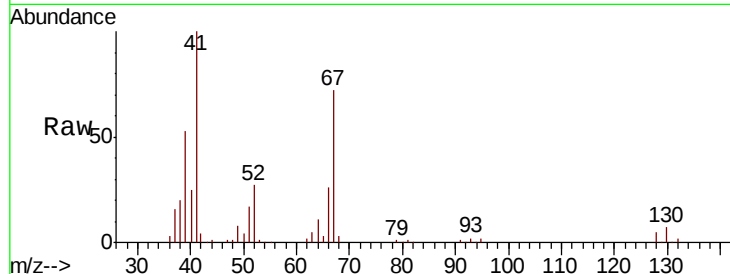
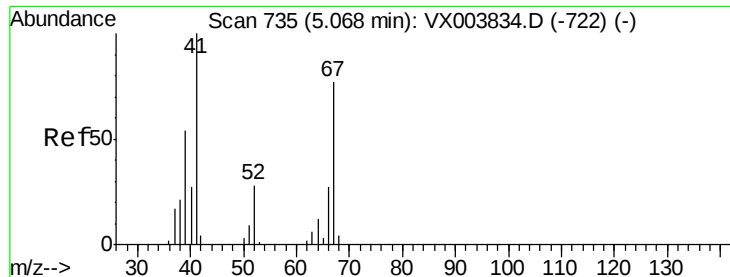
MMDadoda
8/6/2018 1:35:50 PM



#40
Benzene
Concen: 94.08 ug/l
RT: 6.15 min Scan# 912
Delta R.T. 0.01 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.9	28.3





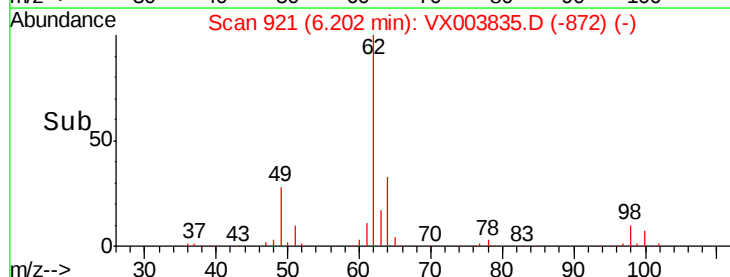
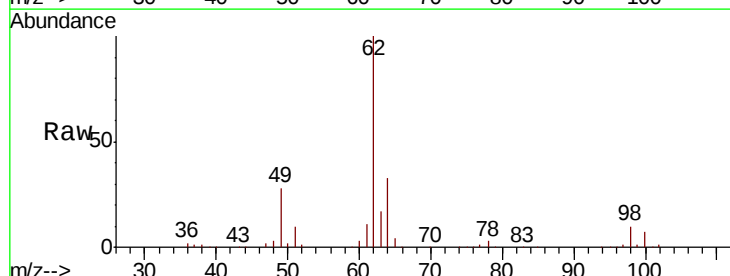
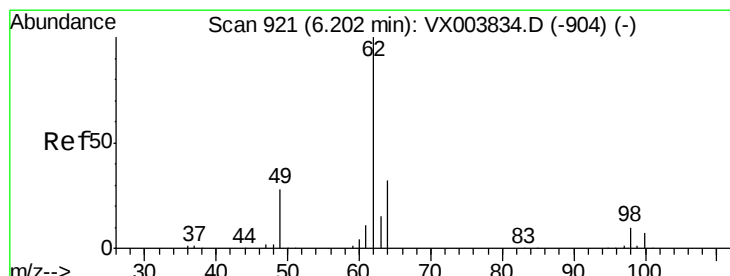
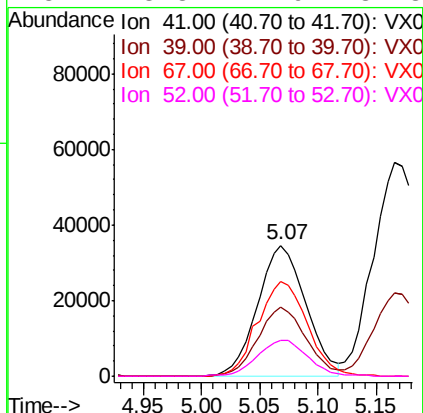
#41
Methacrylonitrile
Concen: 83.07 ug/l
RT: 5.07 min Scan# 735
Delta R.T. 0.00 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		99825		
39	52.5	42.5	63.7		
67	74.5	58.8	88.2		
52	28.8	22.9	34.3		

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

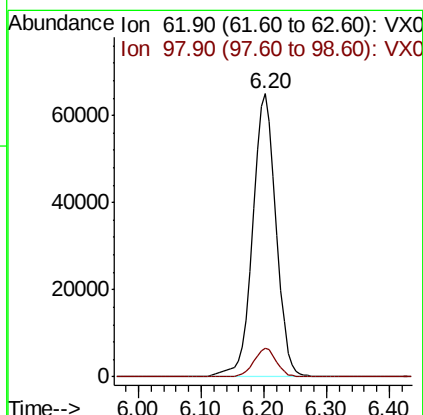
Manual Integrations
APPROVED

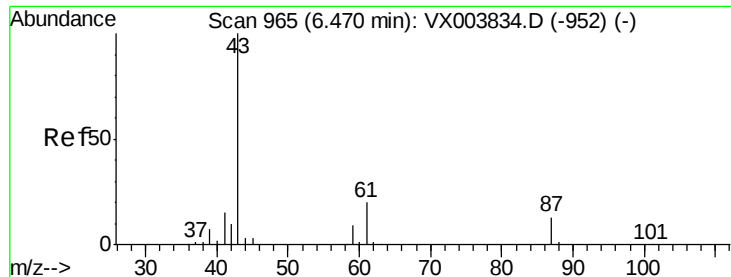
MMDadoda
8/6/2018 1:35:50 PM



#42
1,2-Dichloroethane
Concen: 88.77 ug/l
RT: 6.20 min Scan# 921
Delta R.T. 0.00 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		167033		
98	9.7	0.0	19.6		





#43

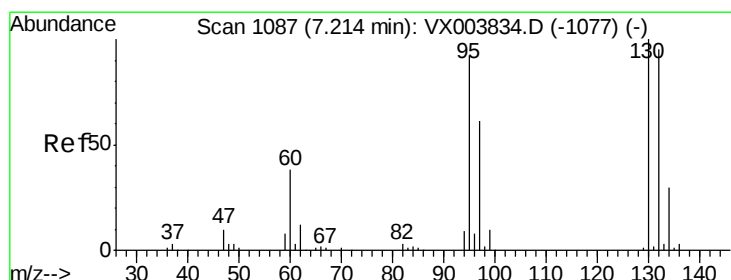
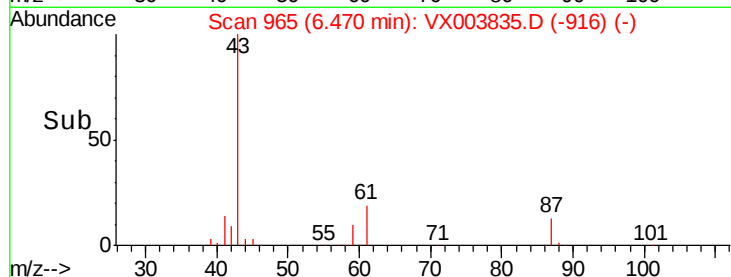
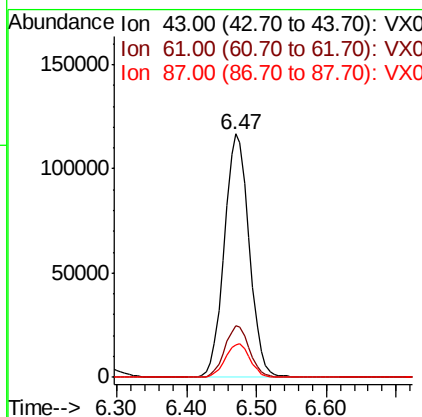
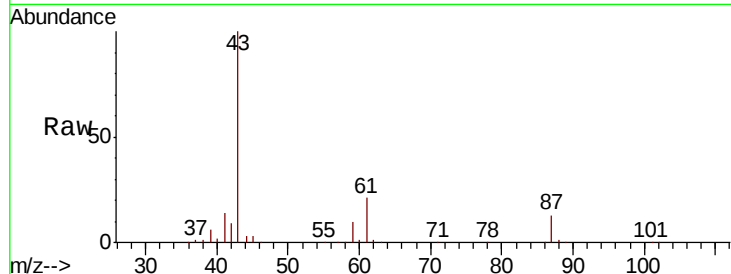
Isopropyl Acetate
 Concen: 90.95 ug/l
 RT: 6.47 min Scan# 965
 Delta R.T. 0.00 min
 Lab File: VX003835.D
 Acq: 02 Aug 2018 20:42

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
43	100		
61	21.0	16.7	25.1
87	13.7	10.8	16.2

Manual Integrations
 APPROVED

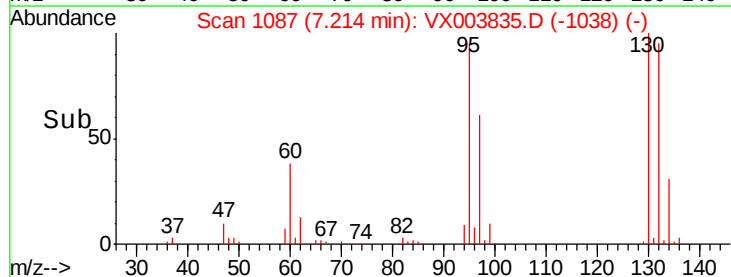
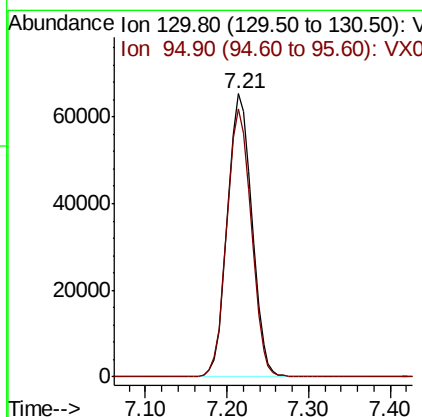
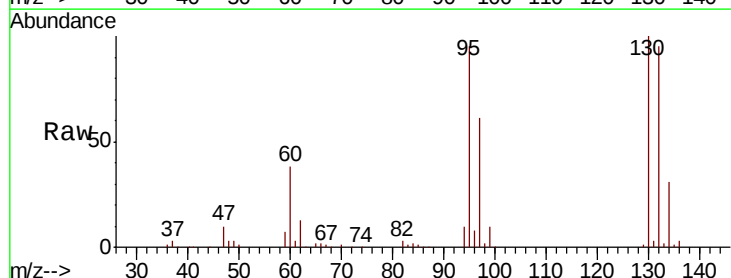
MMDadoda
 8/6/2018 1:35:50 PM

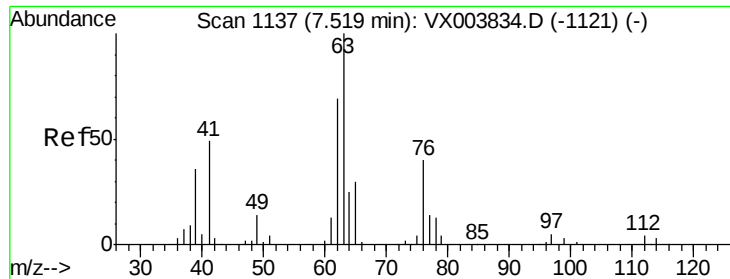


#44

Trichloroethene
 Concen: 94.85 ug/l
 RT: 7.21 min Scan# 1087
 Delta R.T. 0.00 min
 Lab File: VX003835.D
 Acq: 02 Aug 2018 20:42

Tgt Ion	Ratio	Lower	Upper
130	100		
95	94.6	0.0	184.8





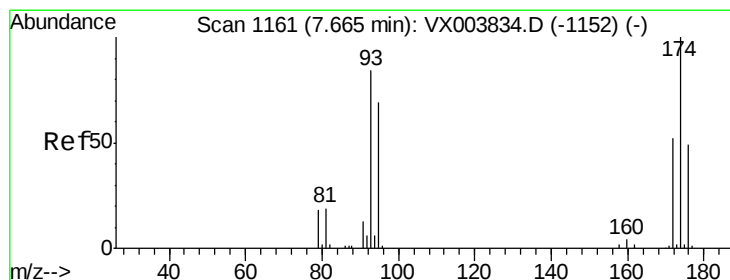
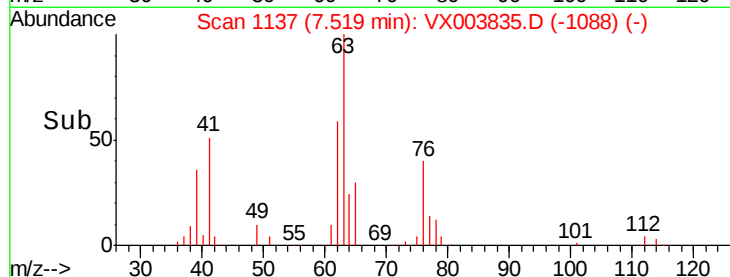
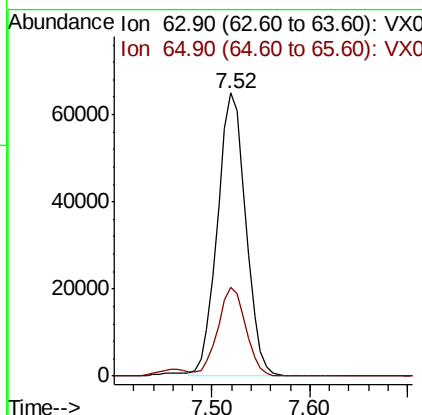
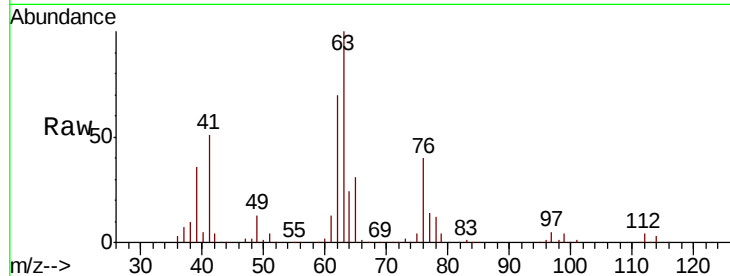
#45
 1,2-Dichloropropane
 Concen: 94.30 ug/l
 RT: 7.52 min Scan# 1137
 Delta R.T. 0.00 min
 Lab File: VX003835.D
 Acq: 02 Aug 2018 20:42

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.2	24.2	36.4

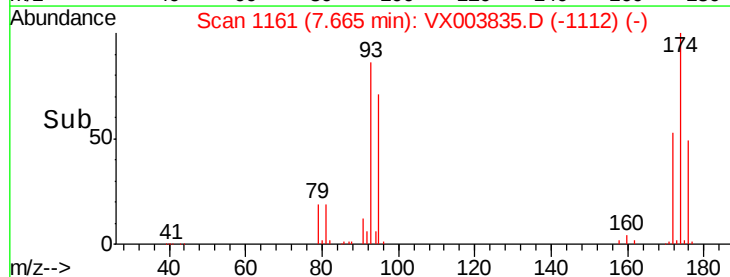
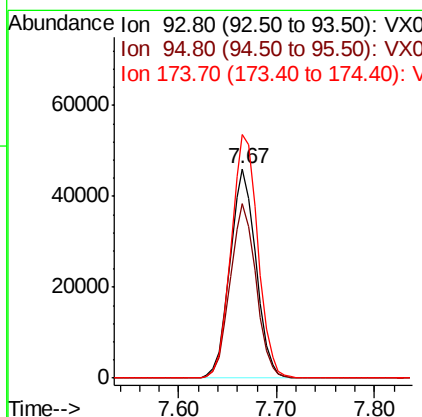
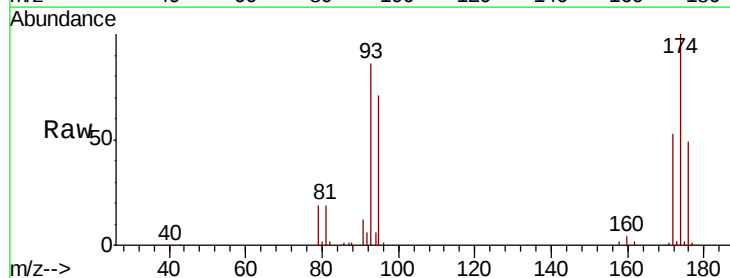
Manual Integrations
 APPROVED

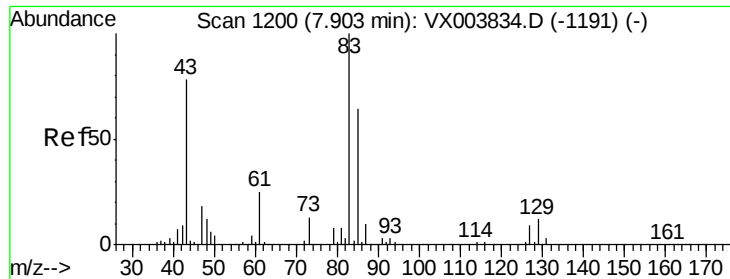
MMDadoda
 8/6/2018 1:35:50 PM



#46
 Dibromomethane
 Concen: 94.29 ug/l
 RT: 7.67 min Scan# 1161
 Delta R.T. 0.00 min
 Lab File: VX003835.D
 Acq: 02 Aug 2018 20:42

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.4	67.0	100.6
174	120.0	97.4	146.2





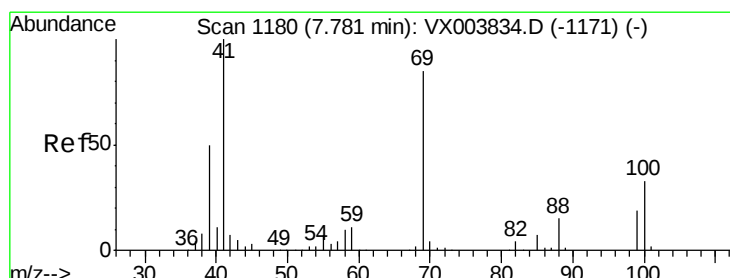
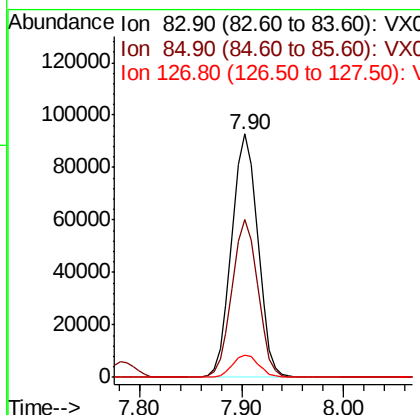
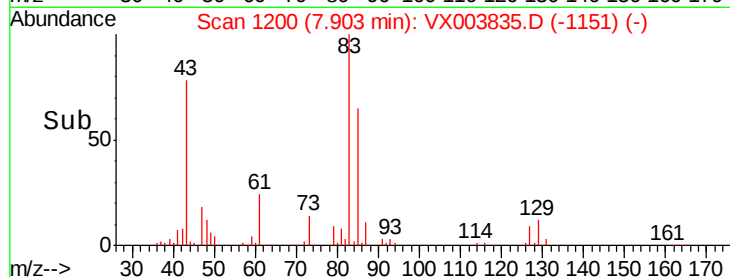
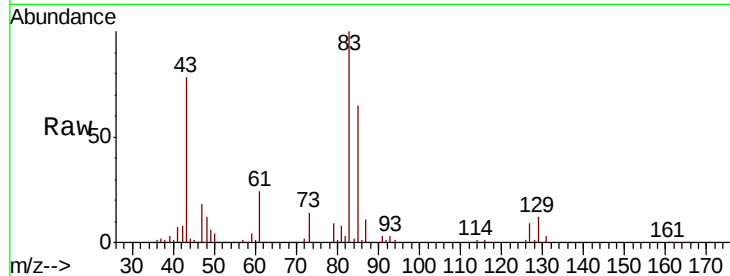
#47
Bromodichloromethane
Concen: 98.20 ug/l
RT: 7.90 min Scan# 1200
Delta R.T. 0.00 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

Tot Ion	83	Resp	164616
Ion Ratio	Lower	Upper	
83	100		
85	64.9	51.4	77.2
127	9.1	7.0	10.6

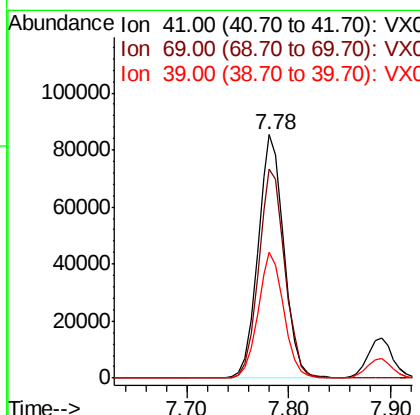
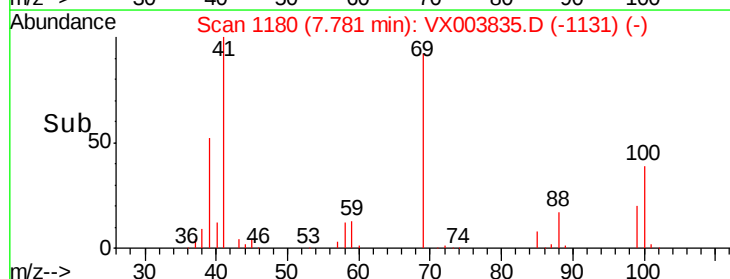
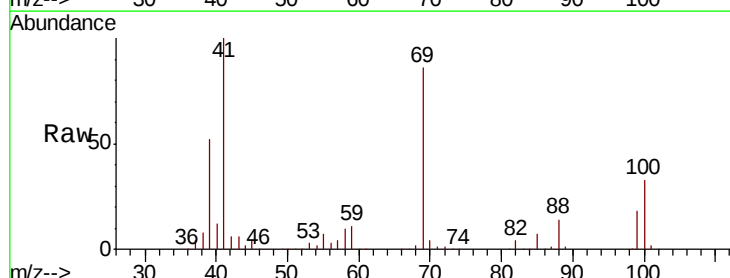
Manual Integrations
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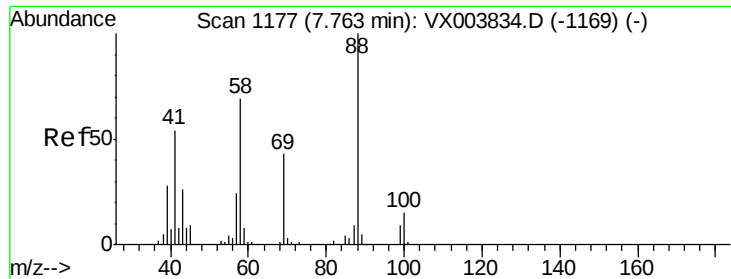
MMDadoda
8/6/2018 1:35:50 PM



#48
Methyl methacrylate
Concen: 93.84 ug/l
RT: 7.78 min Scan# 1180
Delta R.T. 0.00 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Tgt Ion	41	Resp	150688
Ion Ratio	Lower	Upper	
41	100		
69	87.2	70.2	105.4
39	51.2	40.9	61.3





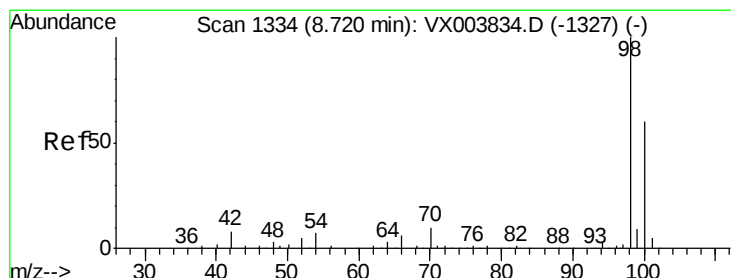
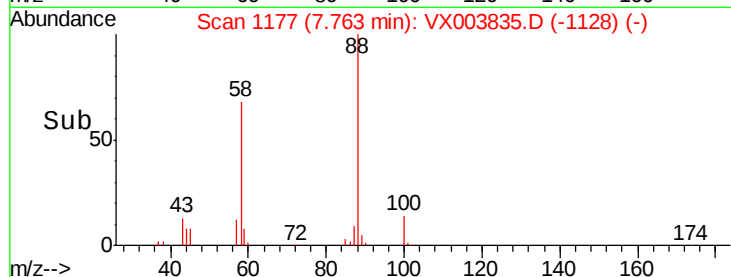
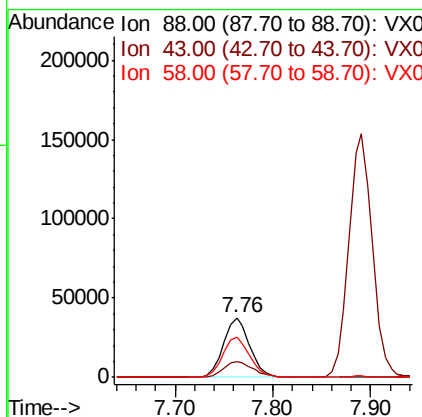
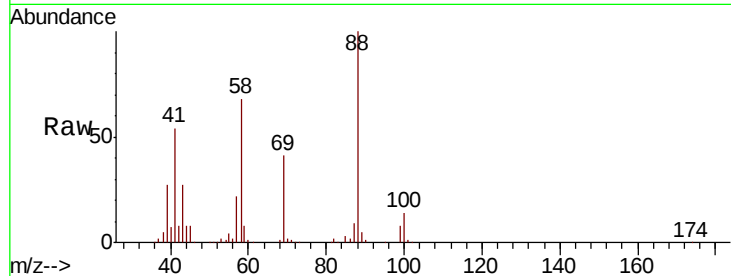
#49
1,4-Dioxane
Concen: 1916.31 ug/l
RT: 7.76 min Scan# 1177
Delta R.T. 0.00 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
88	100		
43	30.5	24.4	36.6
58	70.4	56.5	84.7

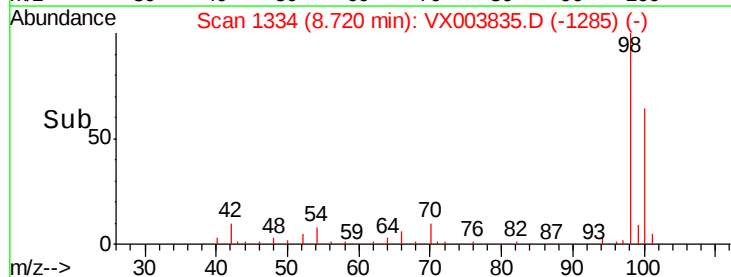
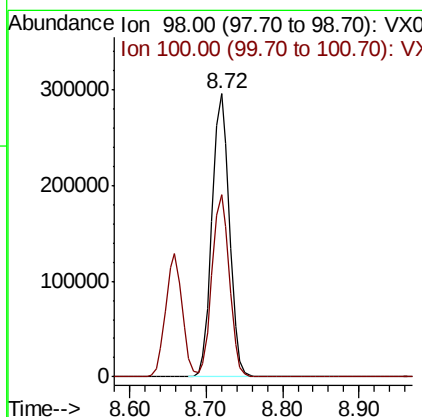
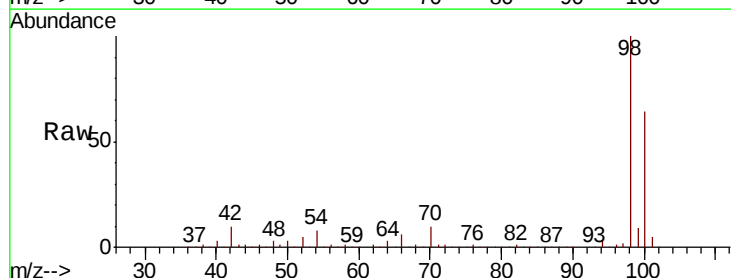
Manual Integrations
APPROVED

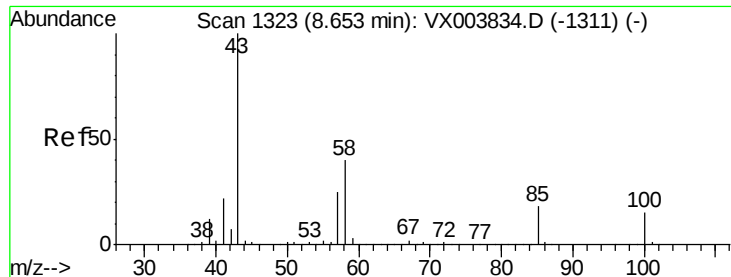
MMDadoda
8/6/2018 1:35:50 PM



#50
Toluene-d8
Concen: 96.84 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.1	51.4	77.2





#51

4-Methyl-2-Pentanone

Concen: 544.58 ug/l

RT: 8.66 min Scan# 1324

Delta R.T. 0.01 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 1213587

Ion Ratio Lower Upper

43 100

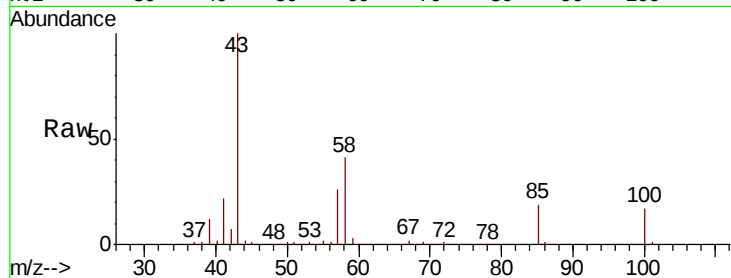
58 40.4 32.2 48.2

Manual Integrations

APPROVED

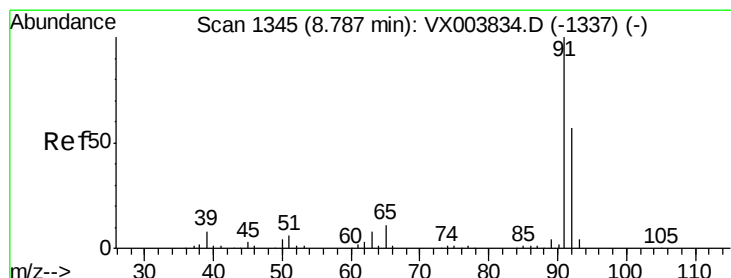
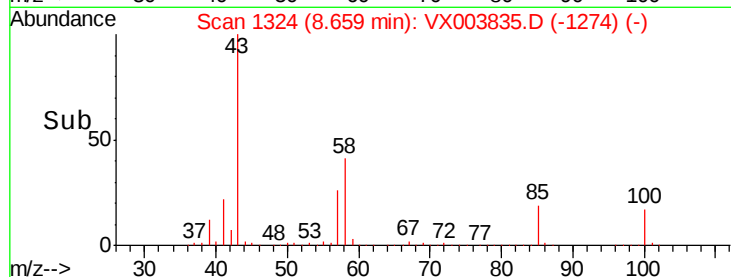
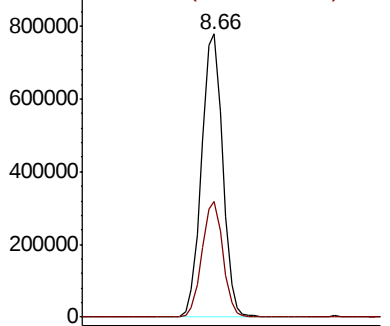
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#52

Toluene

Concen: 96.46 ug/l

RT: 8.79 min Scan# 1345

Delta R.T. 0.00 min

Lab File: VX003835.D

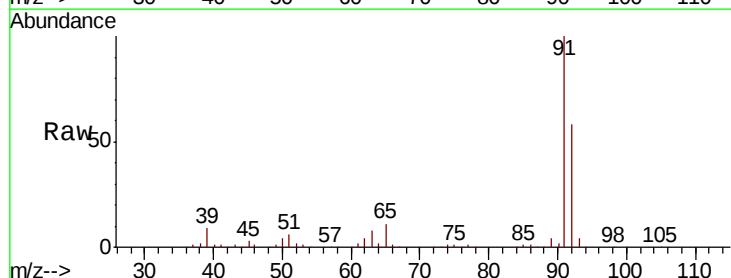
Acq: 02 Aug 2018 20:42

Tgt Ion: 92 Resp: 320955

Ion Ratio Lower Upper

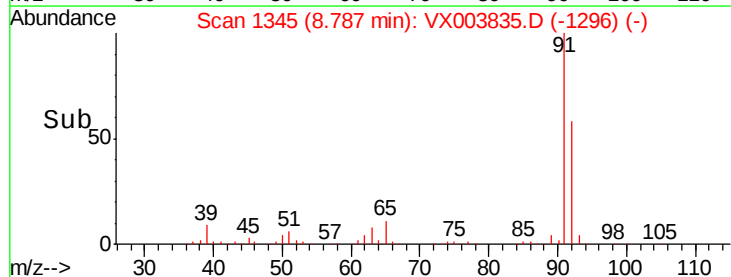
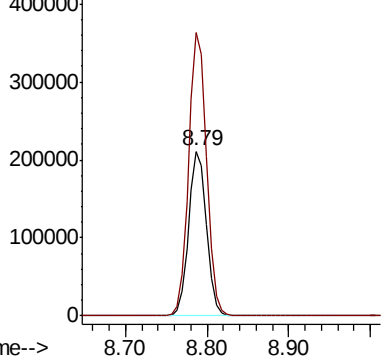
92 100

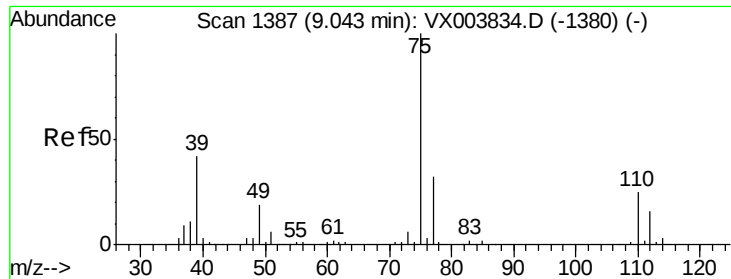
91 173.4 140.2 210.2



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0





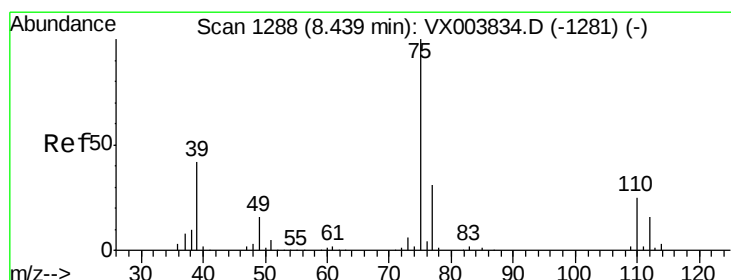
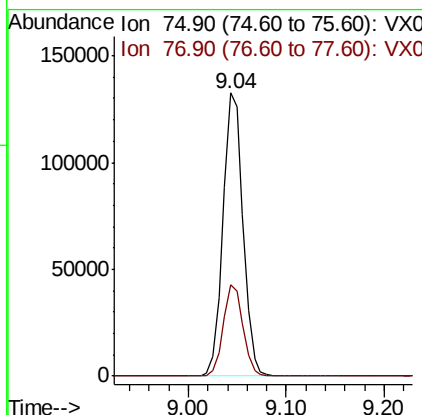
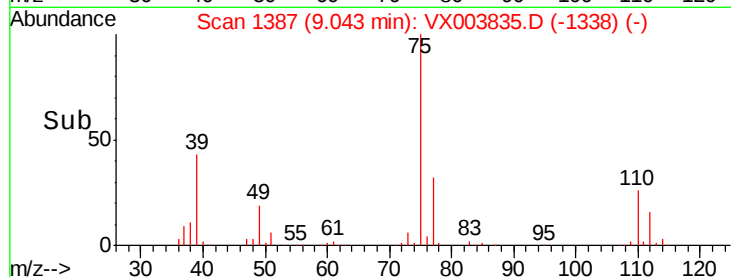
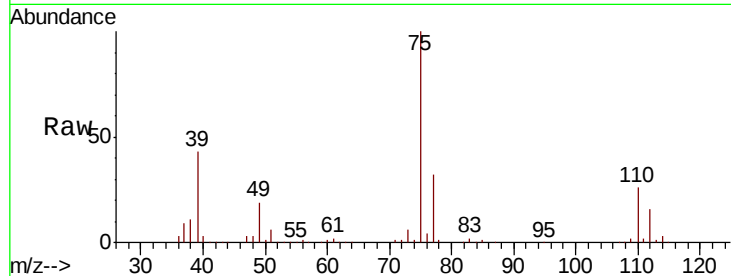
#53
t-1,3-Dichloropropene
Concen: 101.29 ug/l
RT: 9.04 min Scan# 1387
Delta R.T. 0.00 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

Tot Ion: 75 Resp: 188030
Ion Ratio Lower Upper
75 100
77 32.1 25.3 37.9

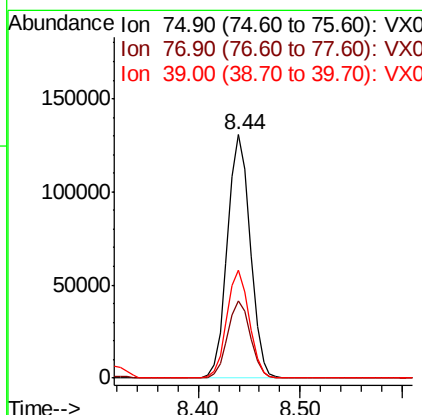
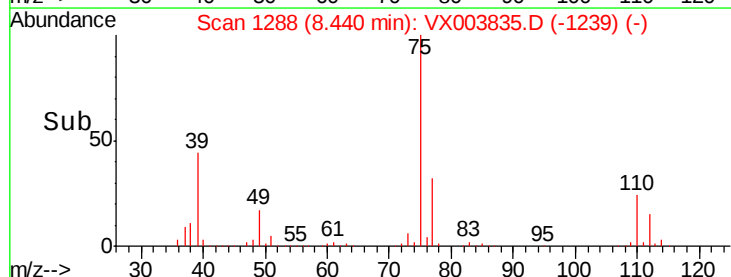
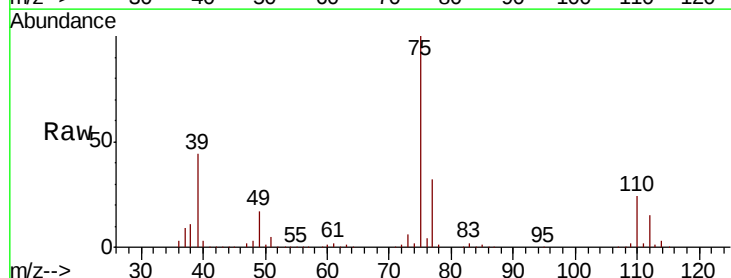
Manual Integrations
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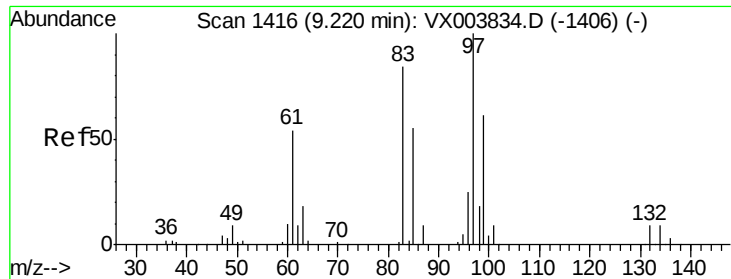
MMDadoda
8/6/2018 1:35:50 PM



#54
cis-1,3-Dichloropropene
Concen: 99.08 ug/l
RT: 8.44 min Scan# 1288
Delta R.T. 0.00 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Tgt Ion: 75 Resp: 201873
Ion Ratio Lower Upper
75 100
77 31.9 25.2 37.8
39 44.1 33.5 50.3





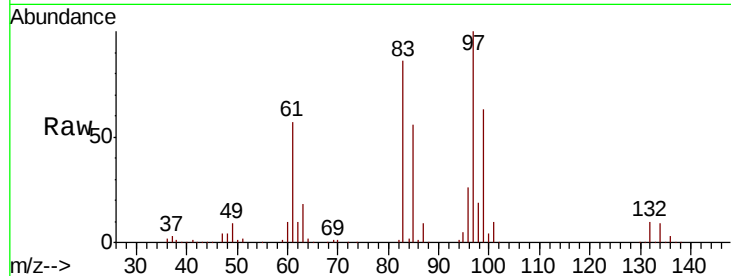
#55
 1,1,2-Trichloroethane
 Concen: 94.77 ug/l
 RT: 9.22 min Scan# 1416
 Delta R.T. 0.00 min
 Lab File: VX003835.D
 Acq: 02 Aug 2018 20:42

Instrument :
 MSVOA_X
 ClientSampled :
 VSTDIC100

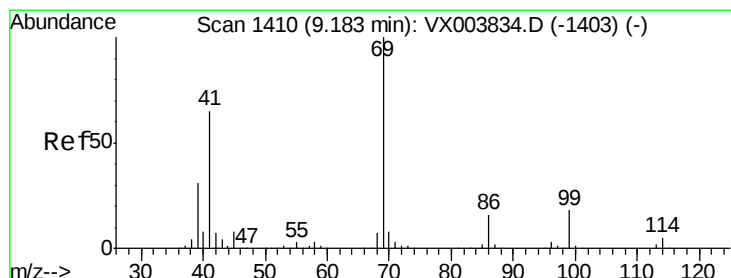
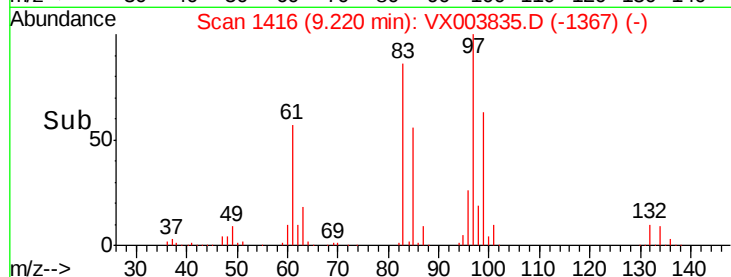
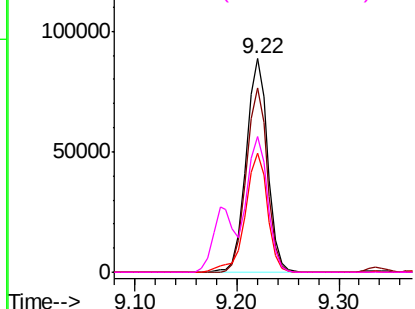
Tot Ion:	97	Resp:	130038
Ion	Ratio	Lower	Upper
97	100		
83	86.3	67.4	101.2
85	55.8	43.9	65.9
99	63.4	49.0	73.6

Manual Integrations
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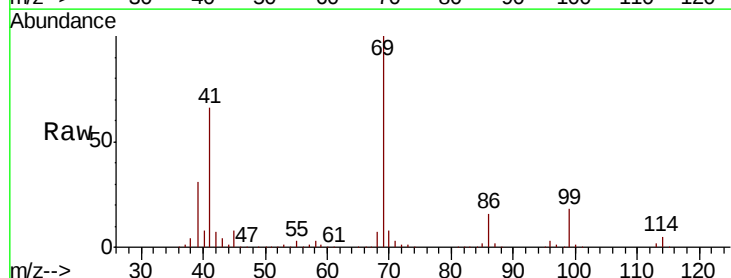


Abundance Ion 96.90 (96.60 to 97.60): VX0
 Ion 82.90 (82.60 to 83.60): VX0
 Ion 84.90 (84.60 to 85.60): VX0
 Ion 98.90 (98.60 to 99.60): VX0

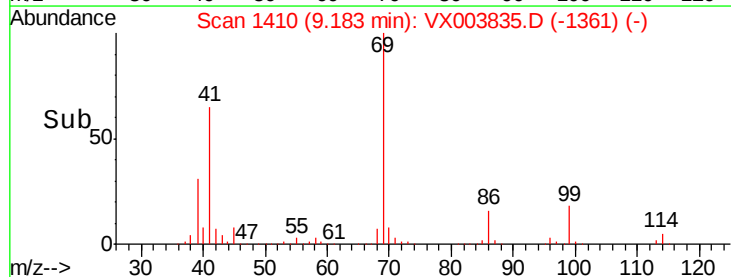
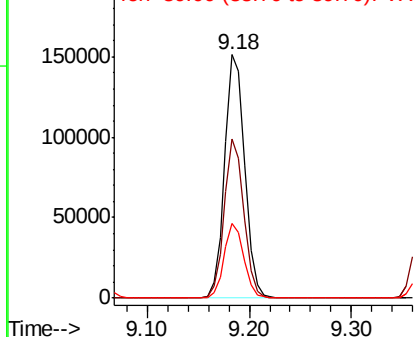


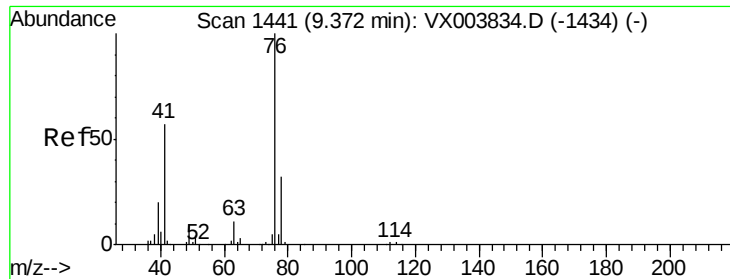
#56
 Ethyl methacrylate
 Concen: 101.52 ug/l
 RT: 9.18 min Scan# 1410
 Delta R.T. 0.00 min
 Lab File: VX003835.D
 Acq: 02 Aug 2018 20:42

Tgt Ion:	69	Resp:	206236
Ion	Ratio	Lower	Upper
69	100		
41	63.8	51.1	76.7
39	30.3	24.7	37.1



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





#57

1,3-Dichloropropane

Concen: 93.51 ug/l

RT: 9.38 min Scan# 1442

Delta R.T. 0.01 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tot Ion: 76 Resp: 215086

Ion Ratio Lower Upper

76 100

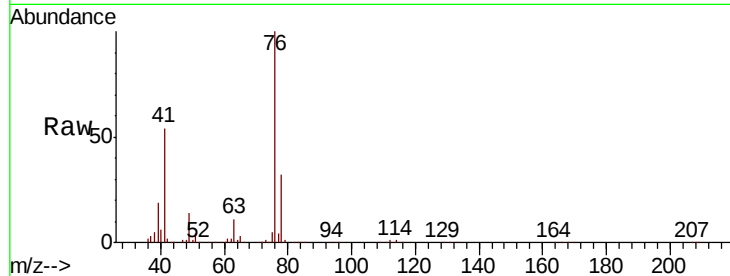
78 32.1 25.7 38.5

Manual Integrations

APPROVED

MMDadoda

8/6/2018 1:35:50 PM



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

150000

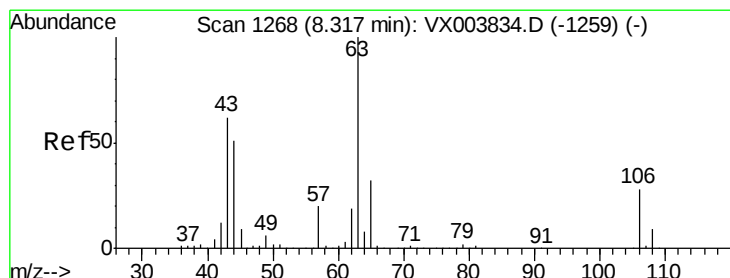
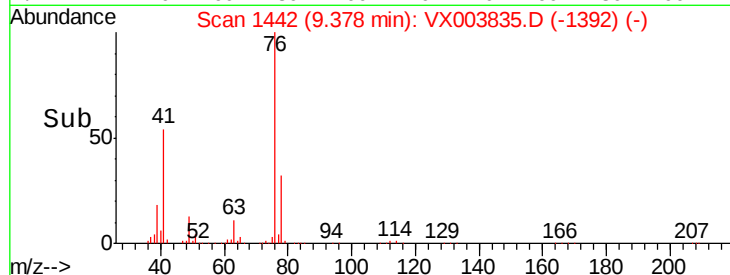
100000

50000

0

9.30 9.35 9.40 9.45 9.50

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 507.76 ug/l

RT: 8.32 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VX003835.D

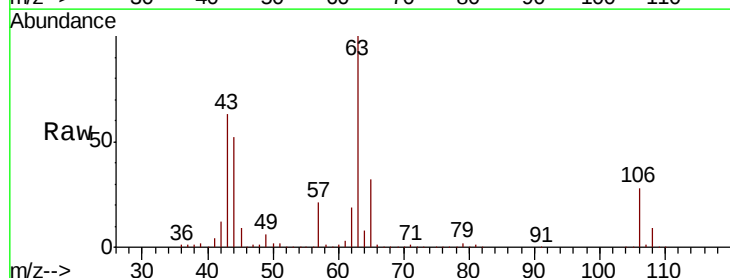
Acq: 02 Aug 2018 20:42

Tgt Ion: 63 Resp: 521053

Ion Ratio Lower Upper

63 100

106 28.3 22.6 34.0



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V

400000

300000

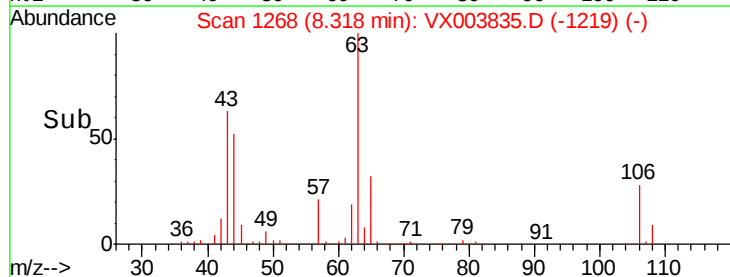
200000

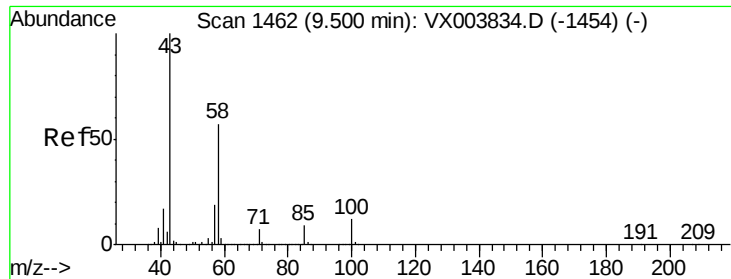
100000

0

8.20 8.30 8.40

Time-->





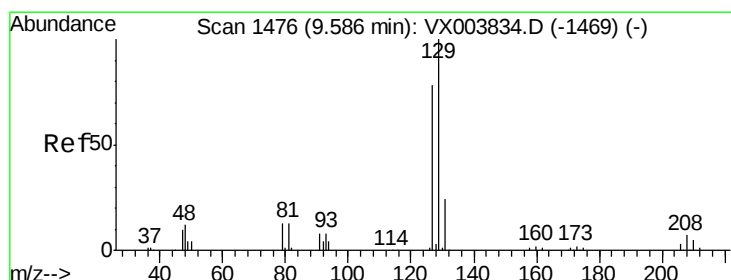
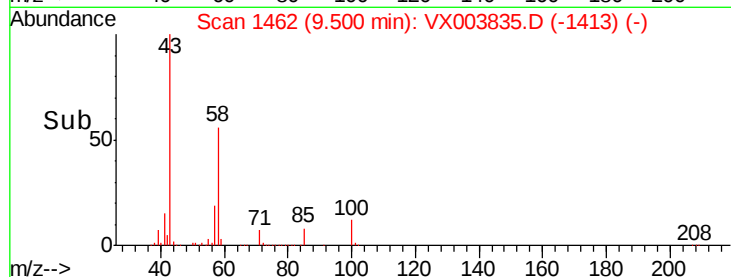
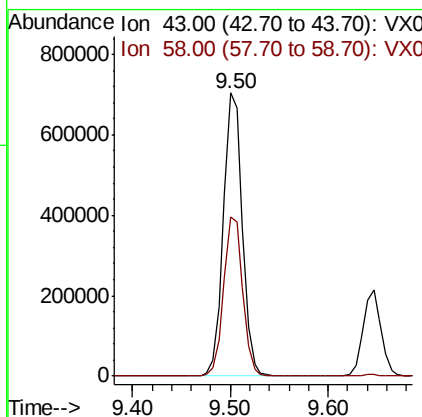
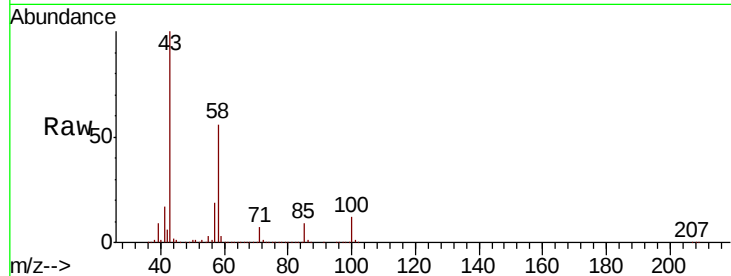
#59
2-Hexanone
Concen: 554.53 ug/l
RT: 9.50 min Scan# 1462
Delta R.T. 0.00 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
43	100		
58	56.5	28.2	84.7

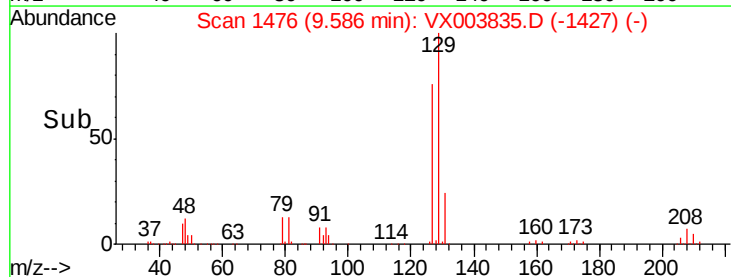
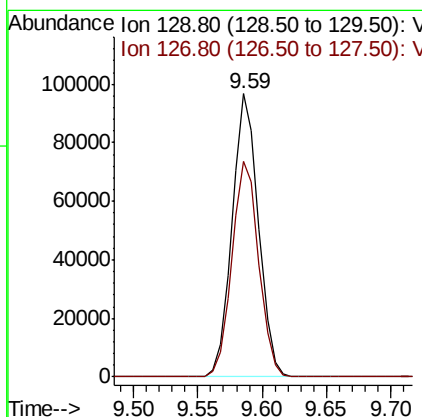
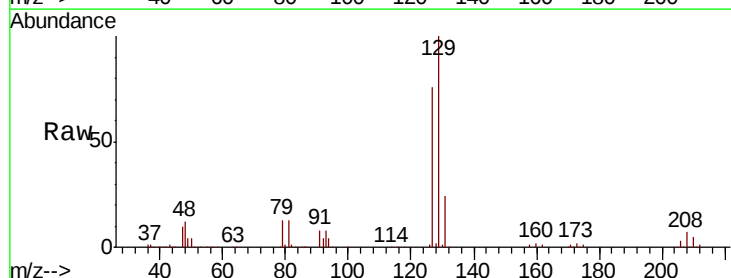
Manual Integrations
APPROVED

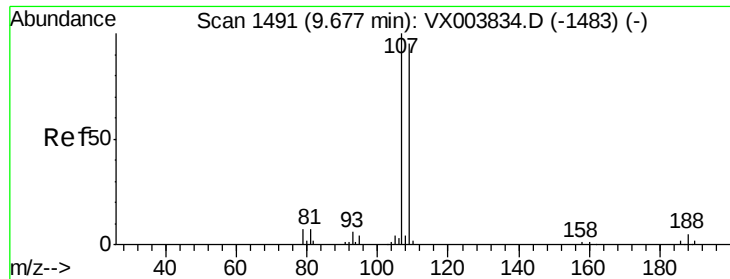
MMDadoda
8/6/2018 1:35:50 PM



#60
Dibromochloromethane
Concen: 105.24 ug/l
RT: 9.59 min Scan# 1476
Delta R.T. 0.00 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.4	39.0	116.9





#61

1,2-Dibromoethane

Concen: 96.24 ug/l

RT: 9.68 min Scan# 1491

Delta R.T. 0.00 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

Instrument :

MSVOA_X

ClientSampled :

VSTDIC100

Tot Ion:107 Resp: 137860

Ion Ratio Lower Upper

107 100

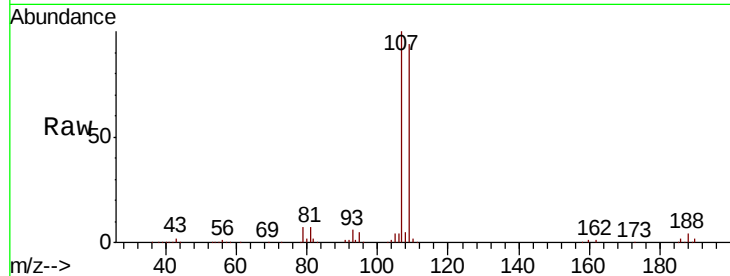
109 93.8 75.8 113.8

Manual Integrations

APPROVED

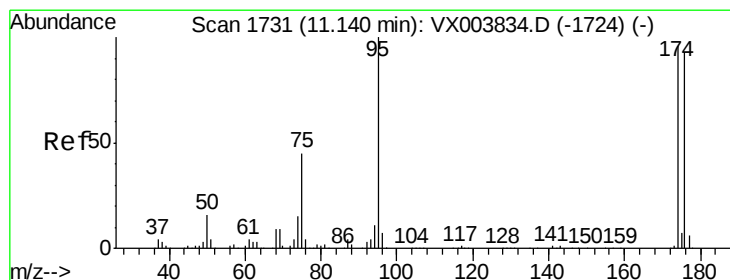
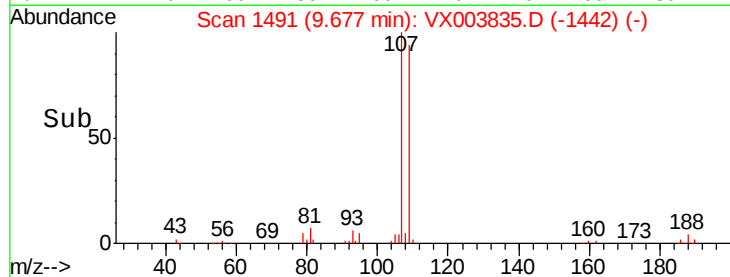
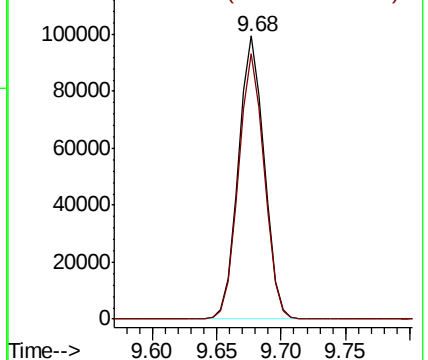
MMDadoda

8/6/2018 1:35:50 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 97.25 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

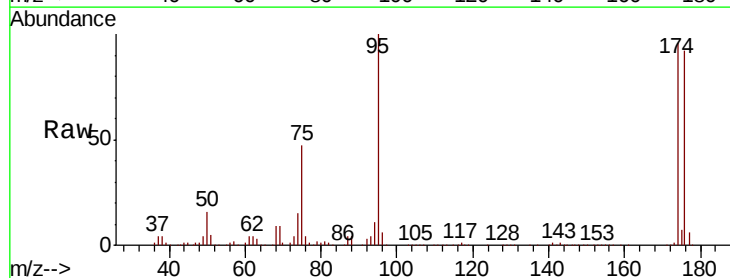
Tgt Ion: 95 Resp: 171537

Ion Ratio Lower Upper

95 100

174 95.5 0.0 192.2

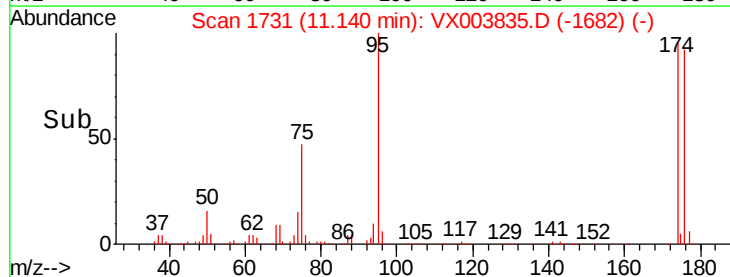
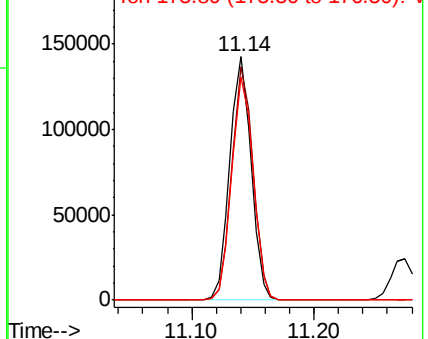
176 92.2 0.0 185.8

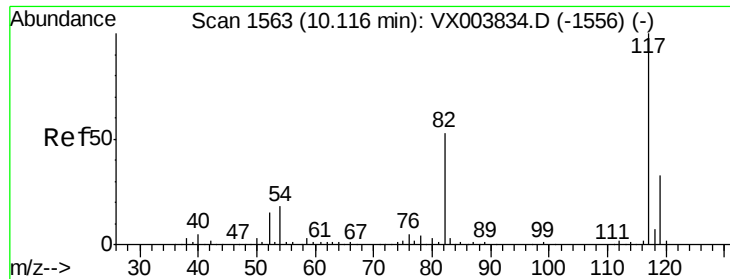


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





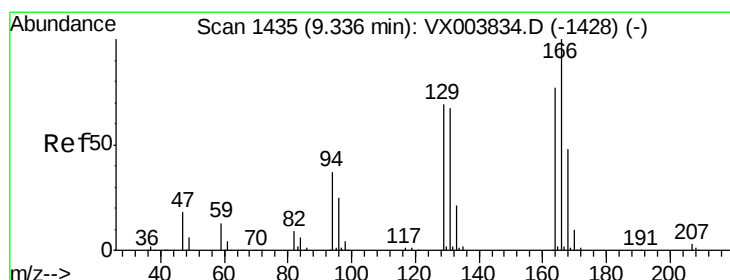
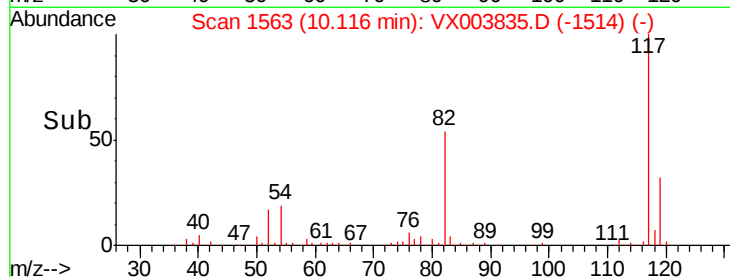
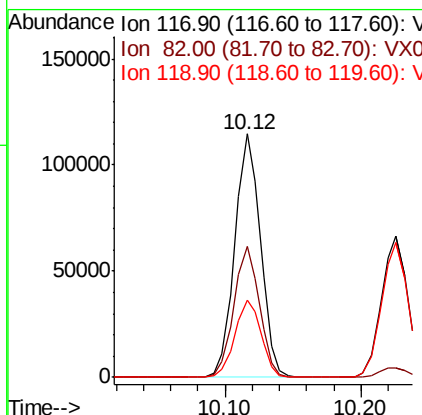
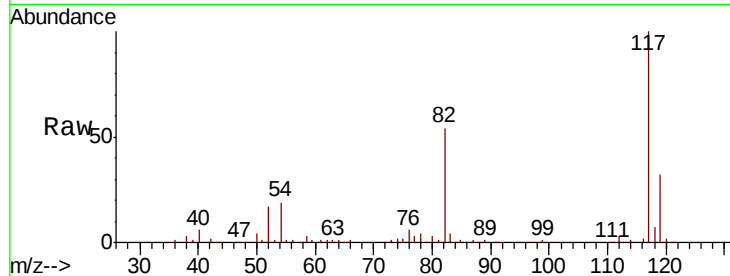
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.0	42.2	63.4
119	31.7	26.2	39.2

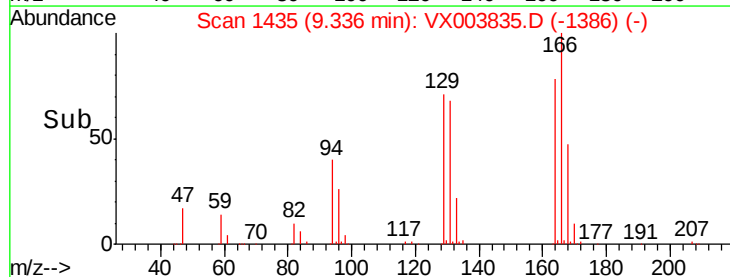
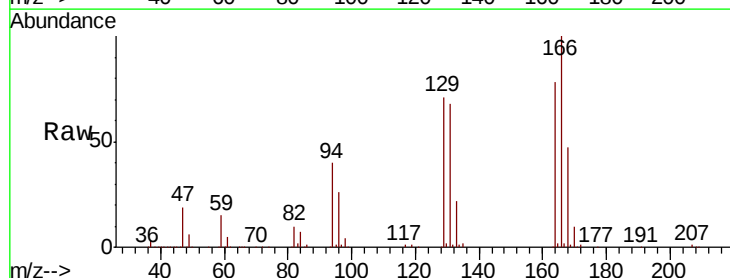
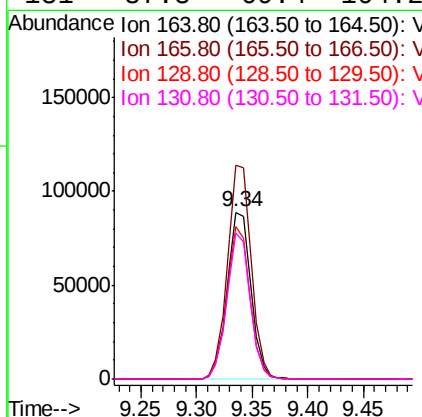
Manual Integrations
APPROVED

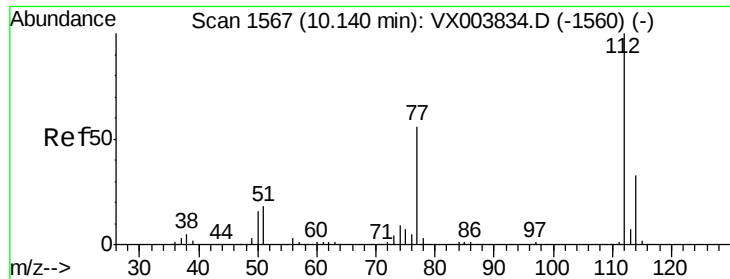
MMDadoda
8/6/2018 1:35:50 PM



#64
Tetrachloroethene
Concen: 96.64 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. 0.00 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.3	103.7	155.5
129	91.6	71.9	107.9
131	87.8	69.4	104.2





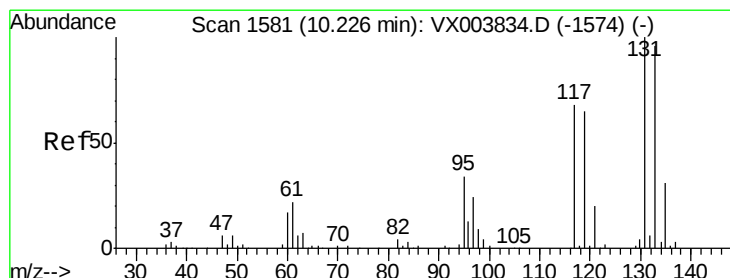
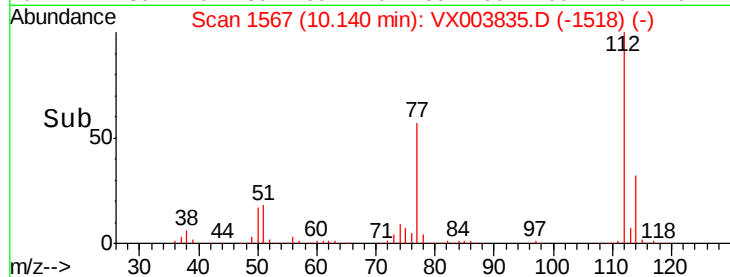
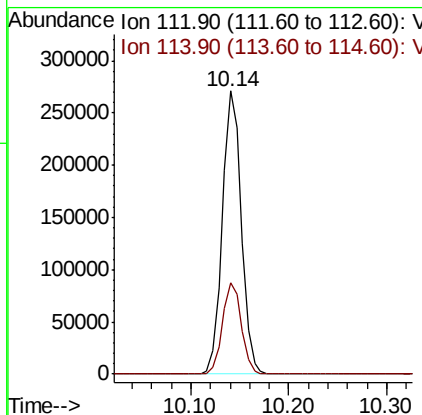
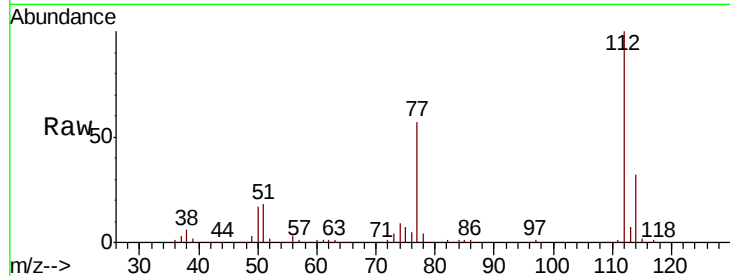
#65
Chlorobenzene
Concen: 96.12 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. 0.00 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

Tot Ion:112 Resp: 363388
Ion Ratio Lower Upper
112 100
114 32.1 26.2 39.4

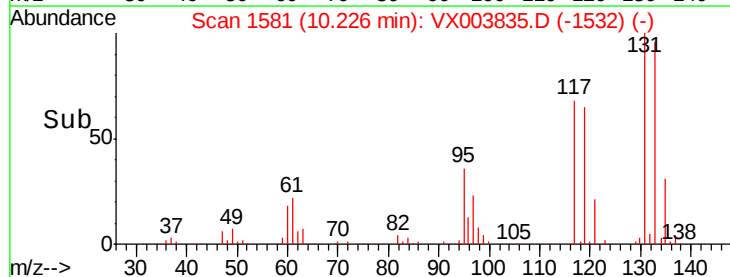
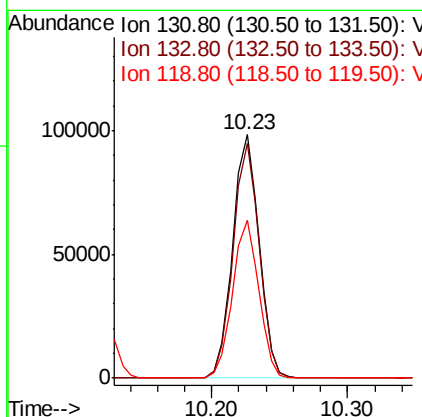
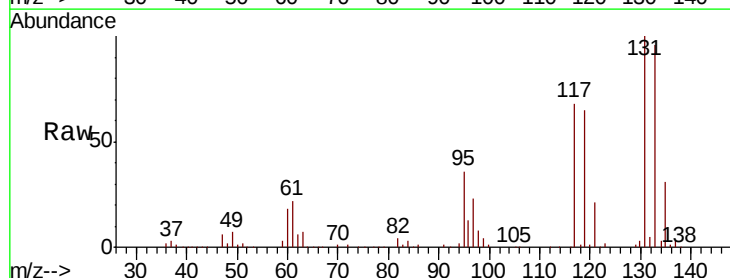
Manual Integrations
APPROVED

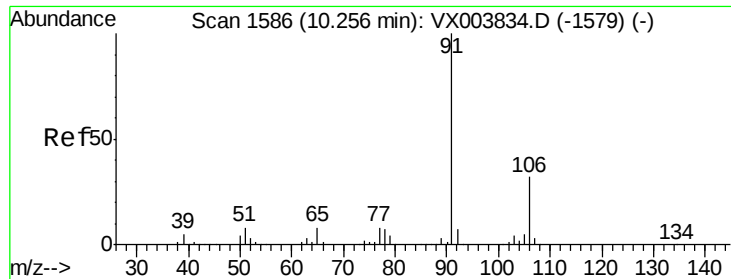
MMDadoda
8/6/2018 1:35:50 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 100.66 ug/l
RT: 10.23 min Scan# 1581
Delta R.T. 0.00 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Tgt Ion:131 Resp: 132908
Ion Ratio Lower Upper
131 100
133 95.7 47.9 143.8
119 64.5 32.8 98.3





#67

Ethyl Benzene

Concen: 99.93 ug/l

RT: 10.26 min Scan# 1586

Delta R.T. 0.00 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tot Ion: 91 Resp: 624902

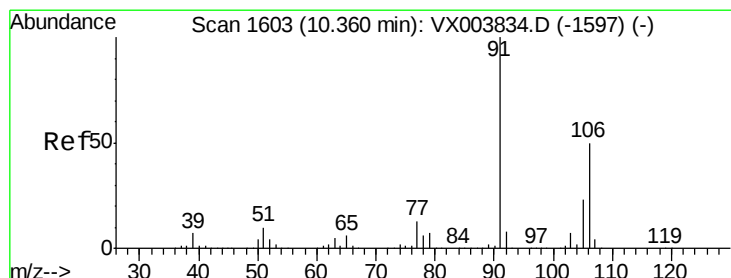
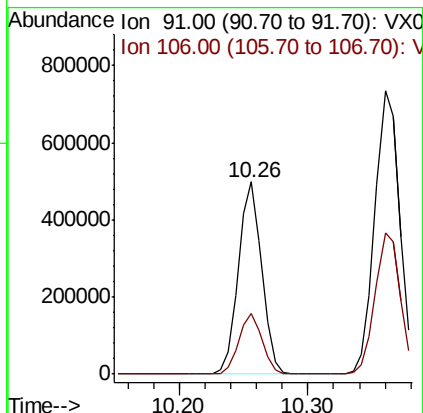
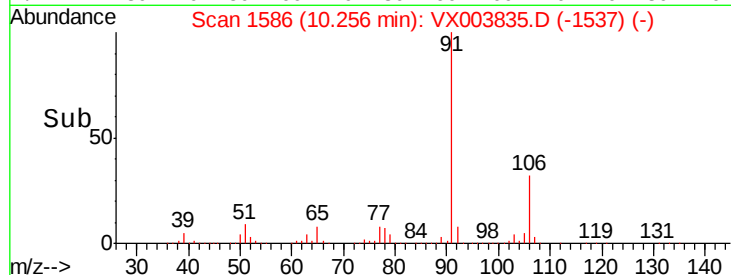
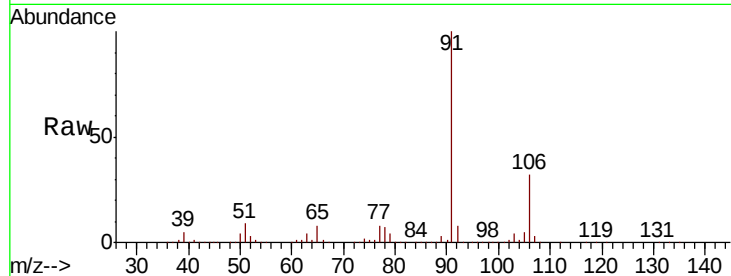
Ion Ratio Lower Upper

91 100

106 31.7 25.7 38.5

Manual Integrations
APPROVED

MMDadoda
8/6/2018 1:35:50 PM



#68

m/p-Xylenes

Concen: 203.46 ug/l

RT: 10.36 min Scan# 1603

Delta R.T. 0.00 min

Lab File: VX003835.D

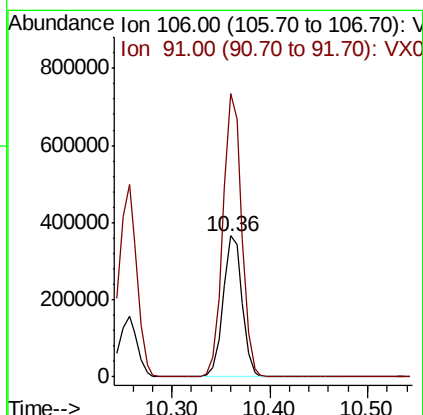
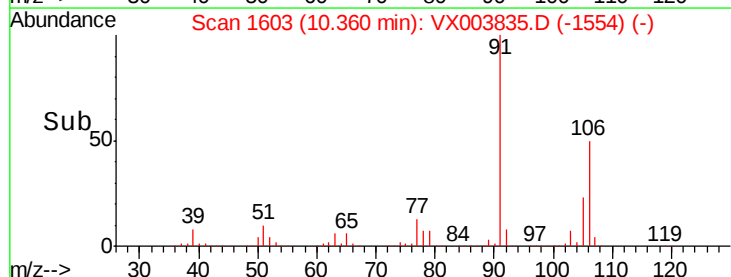
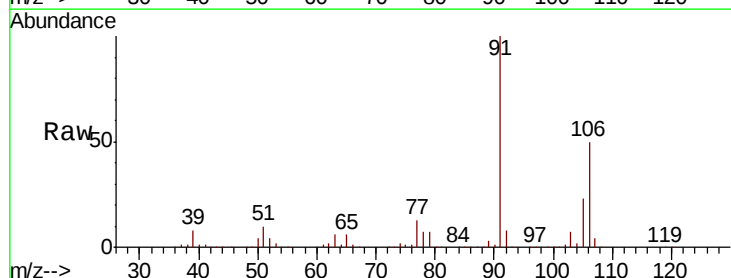
Acq: 02 Aug 2018 20:42

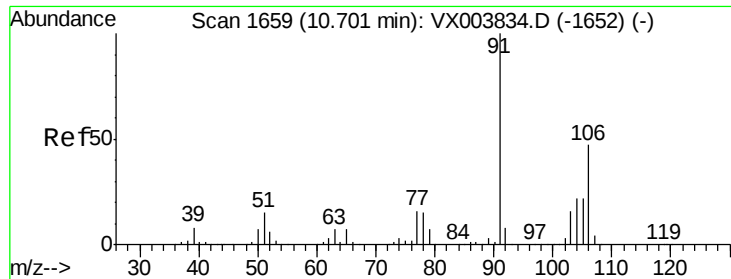
Tgt Ion: 106 Resp: 489074

Ion Ratio Lower Upper

106 100

91 199.4 161.3 241.9





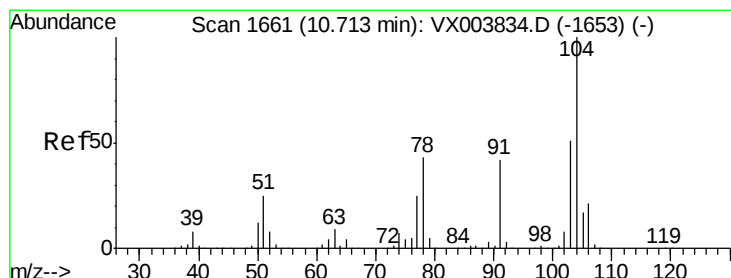
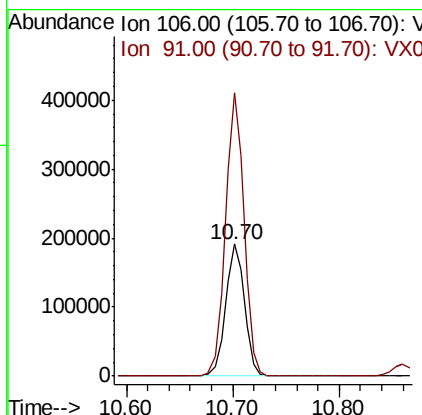
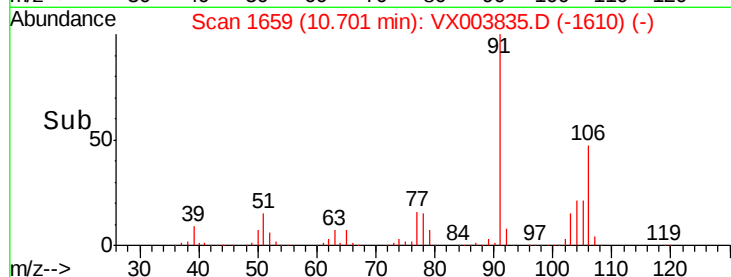
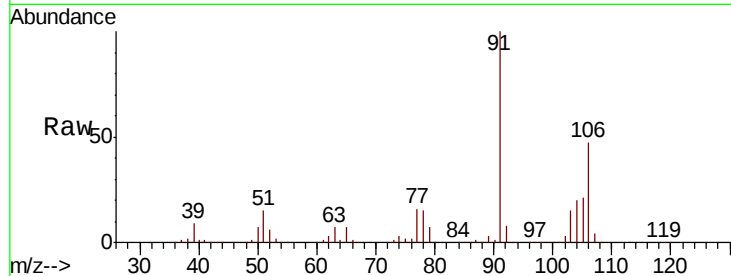
#69
o-Xylene
Concen: 101.40 ug/l
RT: 10.70 min Scan# 1659
Delta R.T. 0.00 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

Tot Ion:106 Resp: 235807
Ion Ratio Lower Upper
106 100
91 211.8 105.7 317.1

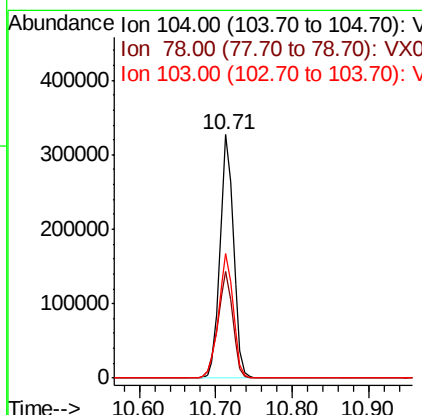
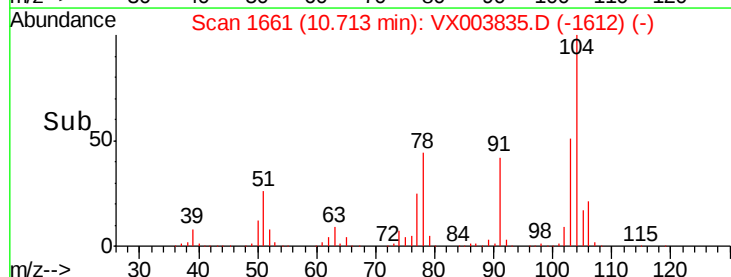
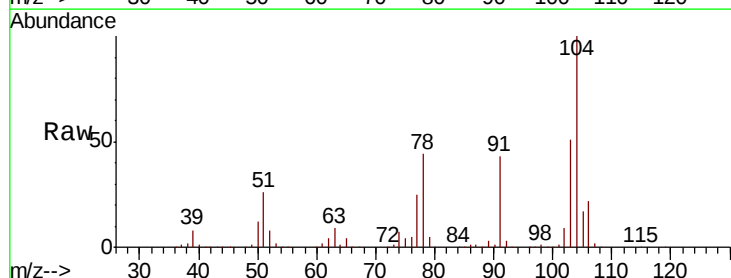
Manual Integrations
APPROVED

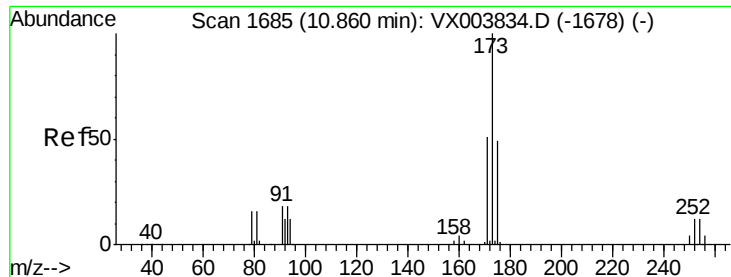
MMDadoda
8/6/2018 1:35:50 PM



#70
Styrene
Concen: 102.58 ug/l
RT: 10.71 min Scan# 1661
Delta R.T. 0.00 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Tgt Ion:104 Resp: 401185
Ion Ratio Lower Upper
104 100
78 48.0 37.8 56.8
103 55.3 44.2 66.4





#71

Bromoform

Concen: 109.49 ug/l

RT: 10.86 min Scan# 1685

Delta R.T. 0.00 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tot Ion:173 Resp: 115194

Ion Ratio Lower Upper

173 100

175 49.1 24.4 73.2

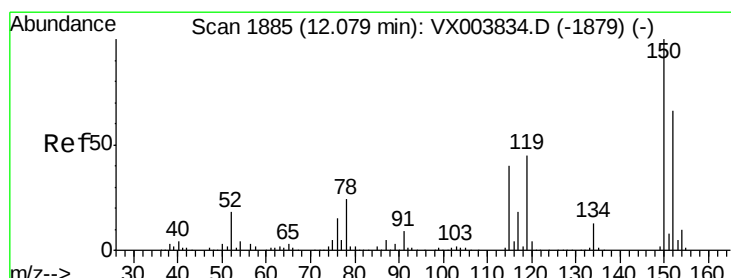
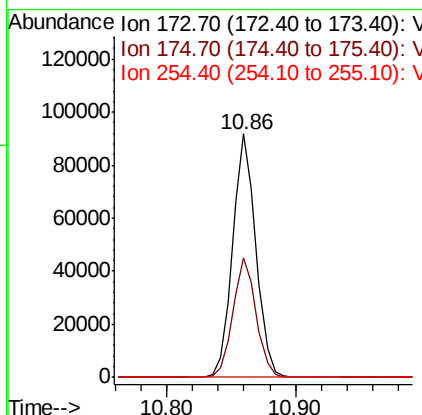
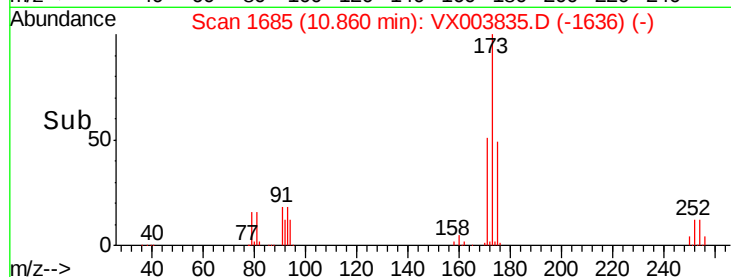
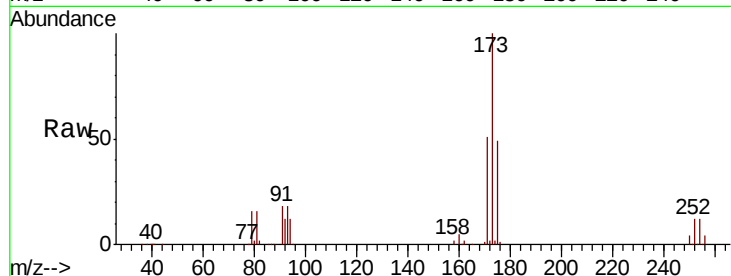
254 0.1 0.1 0.1#

Manual Integrations

APPROVED

MMDadoda

8/6/2018 1:35:50 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

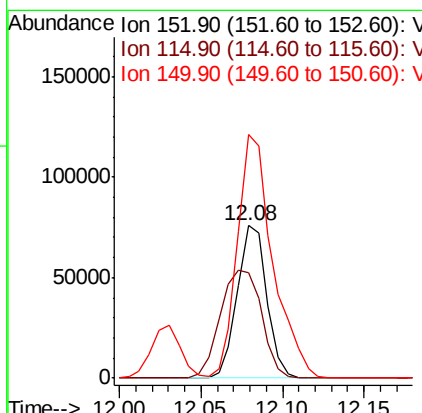
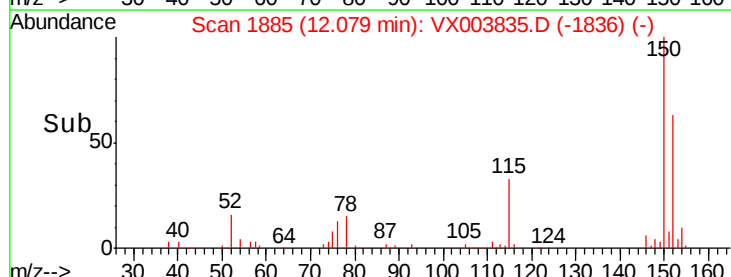
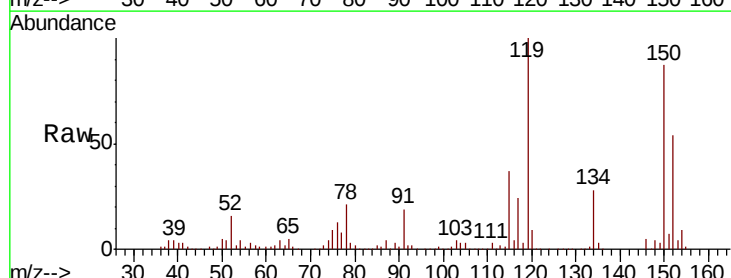
Tgt Ion:152 Resp: 95661

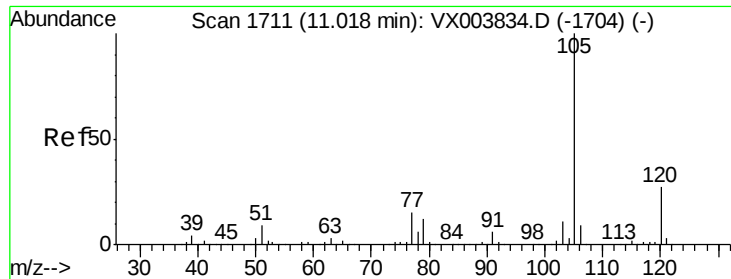
Ion Ratio Lower Upper

152 100

115 98.8 37.4 112.1

150 191.4 0.0 346.6





#73

Isopropylbenzene

Concen: 98.08 ug/l

RT: 11.02 min Scan# 1711

Delta R.T. 0.00 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

Instrument :

MSVOA_X

ClientSampled :

VSTDICC100

Tot Ion:105 Resp: 628536

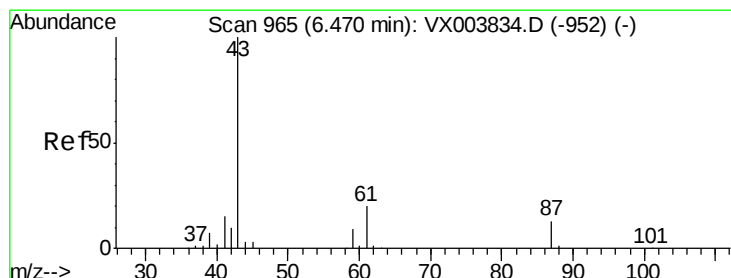
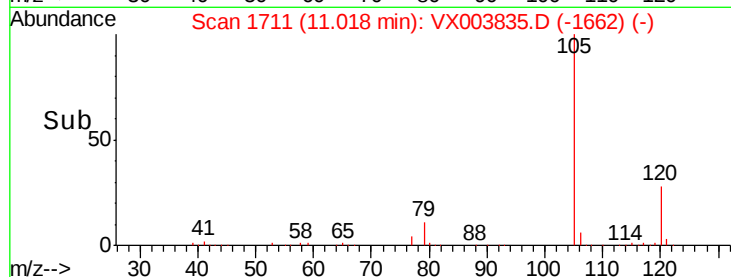
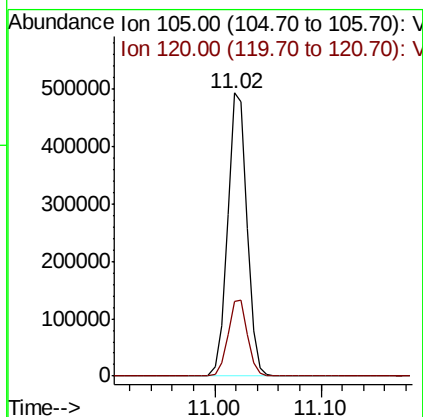
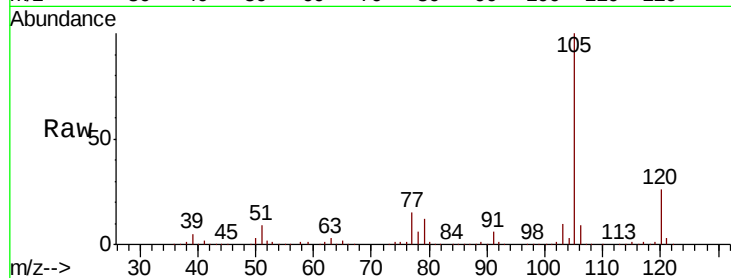
Ion Ratio Lower Upper

105 100

120 27.0 13.6 40.7

Manual Integrations
APPROVED

MMDadoda
8/6/2018 1:35:50 PM



#74

N-ethyl acetate

Concen: 85.65 ug/l

RT: 6.47 min Scan# 965

Delta R.T. 0.00 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

Tgt Ion: 43 Resp: 287732

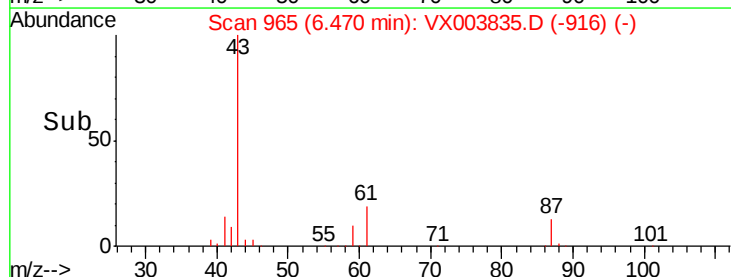
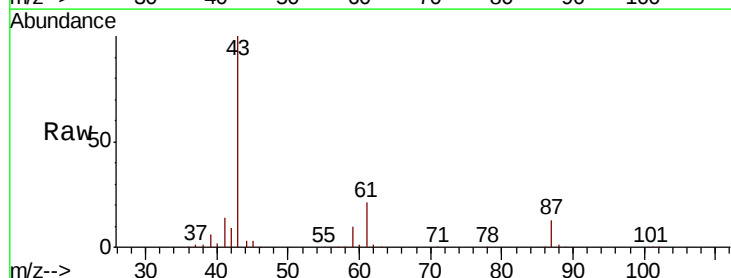
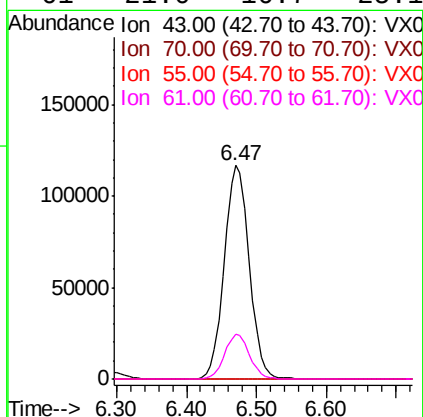
Ion Ratio Lower Upper

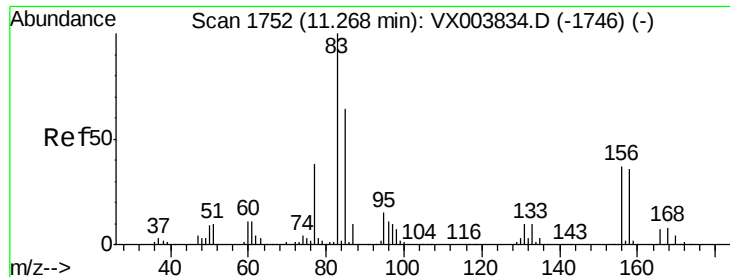
43 100

70 0.0 0.0 0.0

55 0.0 0.0 0.0#

61 21.0 16.7 25.1





#75

1,1,2,2-Tetrachloroethane

Concen: 87.27 ug/l

RT: 11.27 min Scan# 1753

Delta R.T. 0.01 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

Instrument :

MSVOA_X

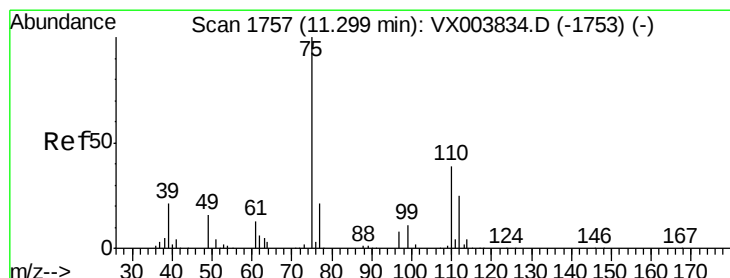
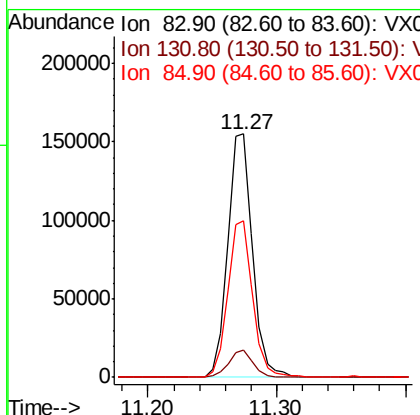
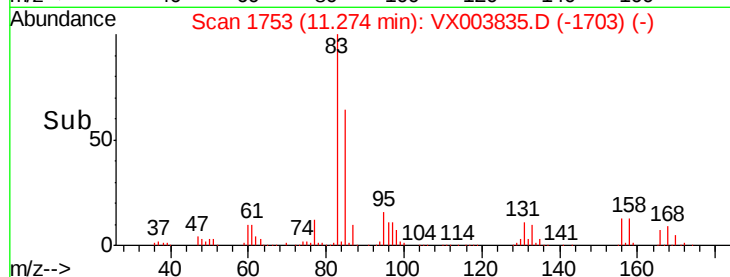
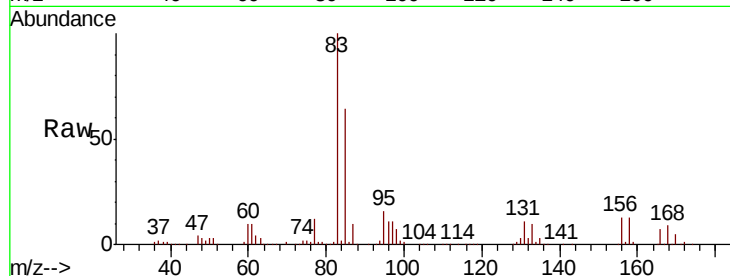
ClientSampleId :

VSTDIC100

Tot Ion:	83	Resp:	209457
Ion Ratio	Lower	Upper	
83	100		
131	10.9	5.3	15.9
85	64.5	32.1	96.3

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 89.77 ug/l m

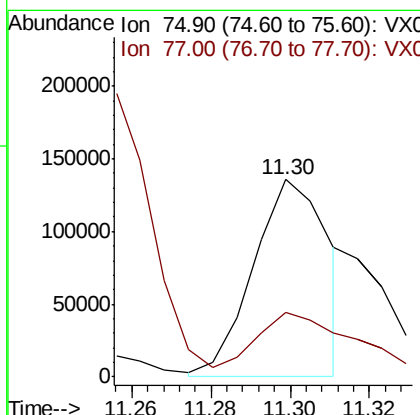
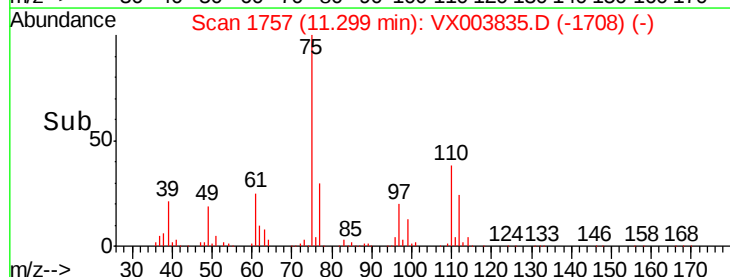
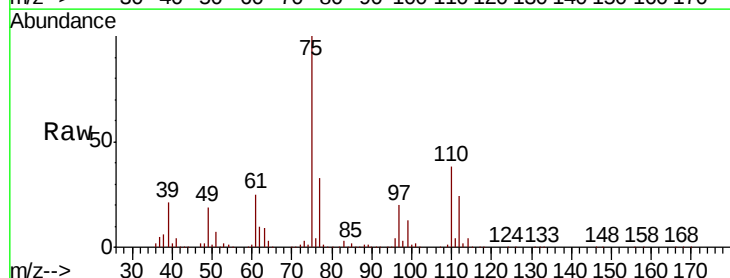
RT: 11.30 min Scan# 1757

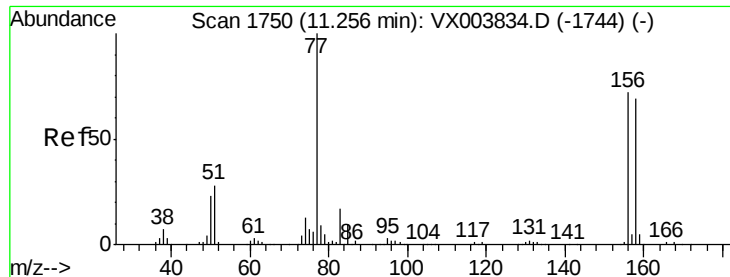
Delta R.T. 0.00 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

Tgt Ion:	75	Resp:	179784
Ion Ratio	Lower	Upper	
75	100		
77	43.9	21.1	63.3





#77

Bromobenzene

Concen: 95.95 ug/l

RT: 11.26 min Scan# 1750

Delta R.T. 0.00 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

Instrument :

MSVOA_X

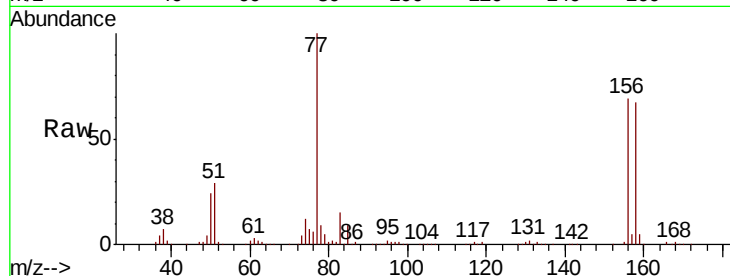
ClientSampled :

VSTDIC100

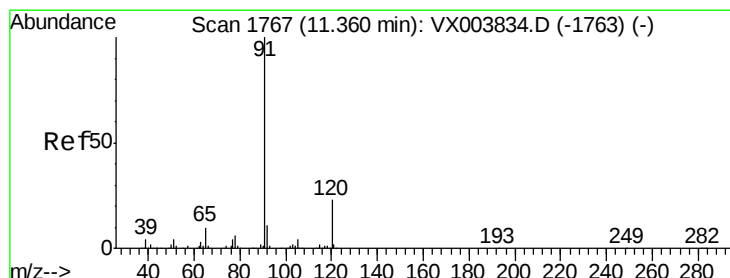
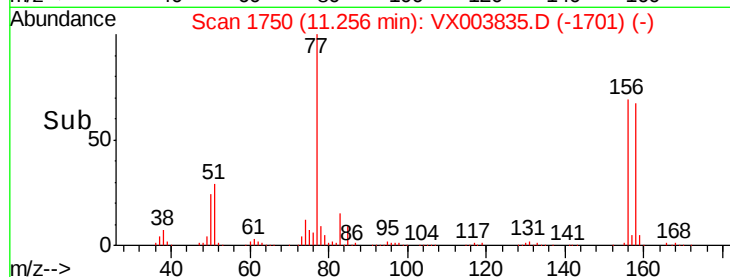
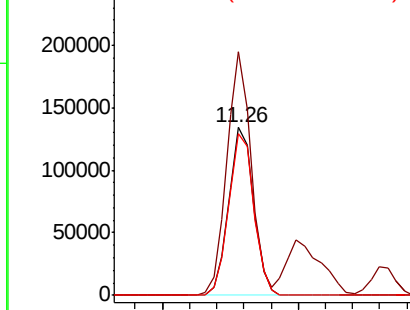
Tot Ion:	156	Resp:	170861
Ion Ratio	Lower	Upper	
156	100		
77	141.1	69.0	206.9
158	97.3	48.1	144.4

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



#78

n-propylbenzene

Concen: 99.26 ug/l

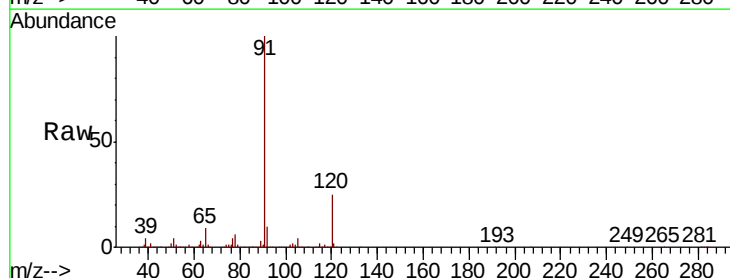
RT: 11.37 min Scan# 1768

Delta R.T. 0.01 min

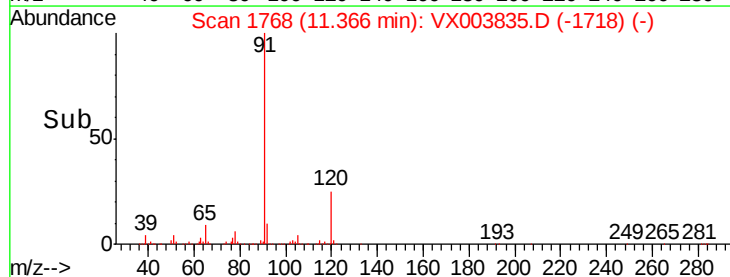
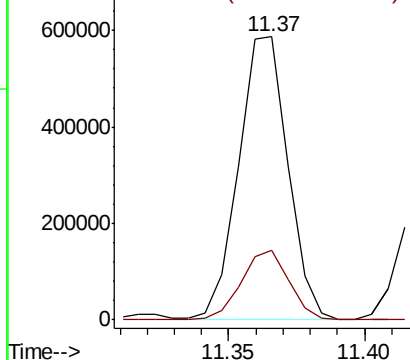
Lab File: VX003835.D

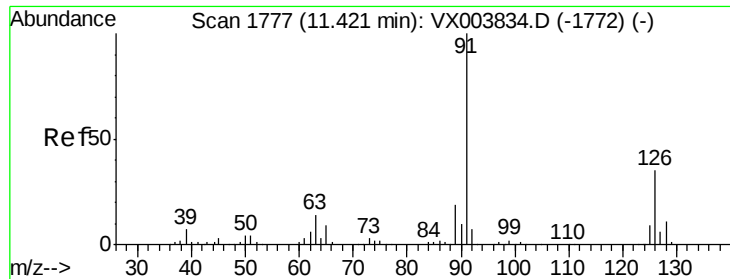
Acq: 02 Aug 2018 20:42

Tgt Ion:	91	Resp:	731805
Ion Ratio	Lower	Upper	
91	100		
120	23.9	12.1	36.3



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





#79

2-Chlorotoluene

Concen: 93.72 ug/l

RT: 11.42 min Scan# 1777

Delta R.T. 0.00 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tot Ion: 91 Resp: 424716

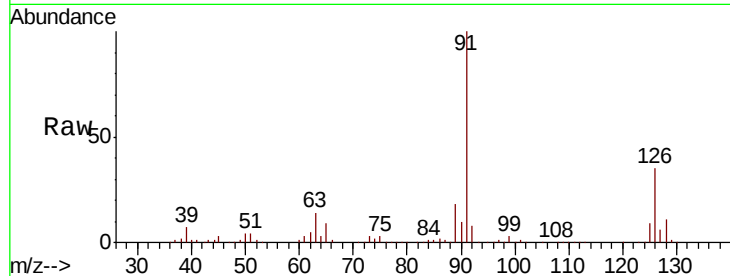
Ion Ratio Lower Upper

91 100

126 35.8 17.9 53.7

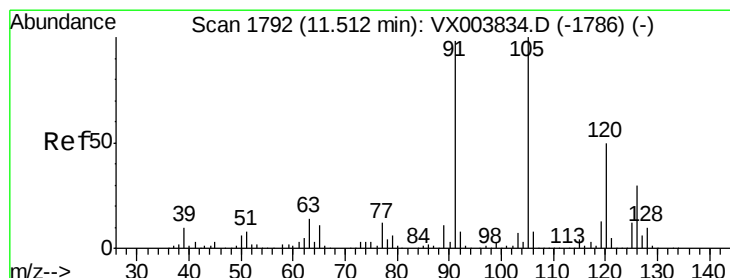
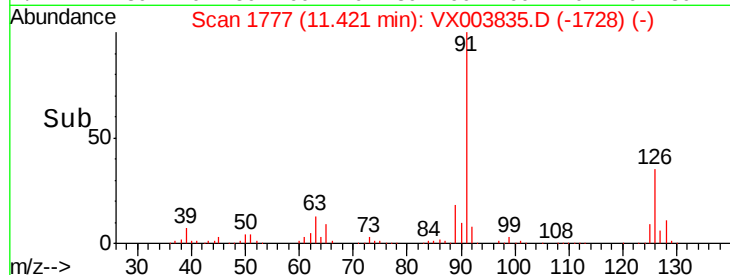
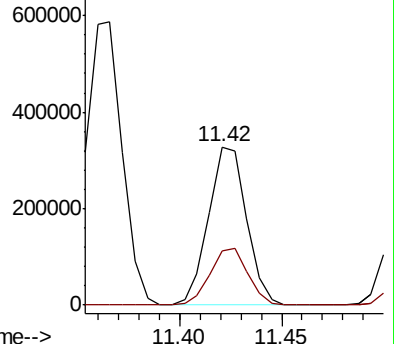
Manual Integrations
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Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 99.64 ug/l

RT: 11.51 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX003835.D

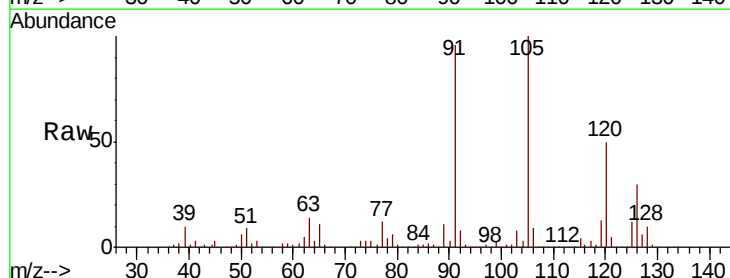
Acq: 02 Aug 2018 20:42

Tgt Ion:105 Resp: 542497

Ion Ratio Lower Upper

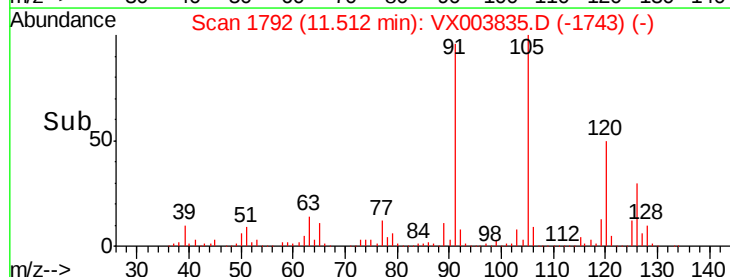
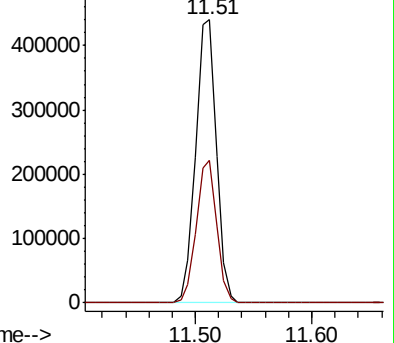
105 100

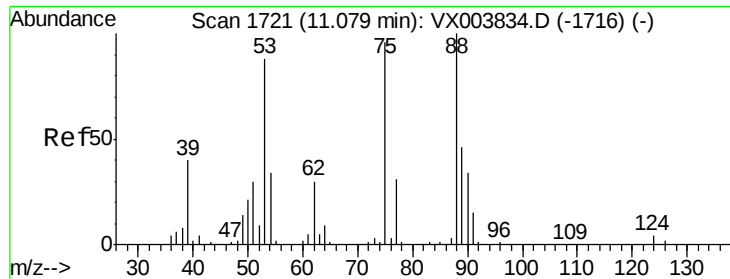
120 49.3 24.8 74.4



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: 101.97 ug/l

RT: 11.08 min Scan# 1721

Delta R.T. 0.00 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

Instrument :

MSVOA_X

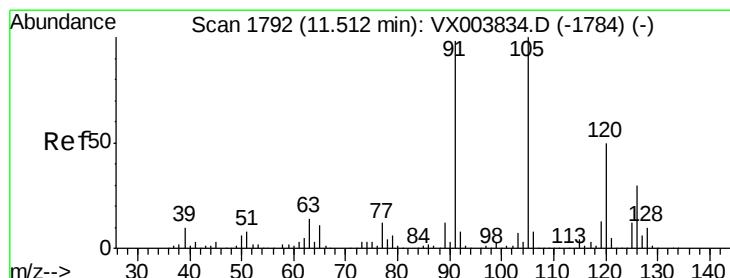
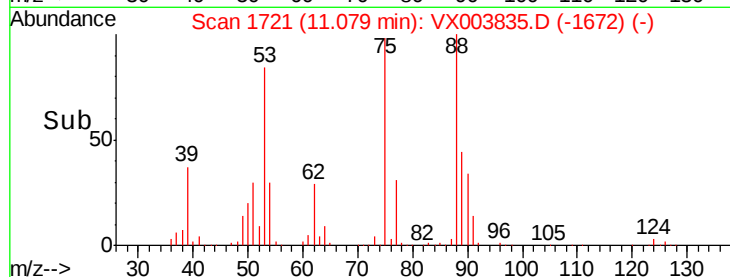
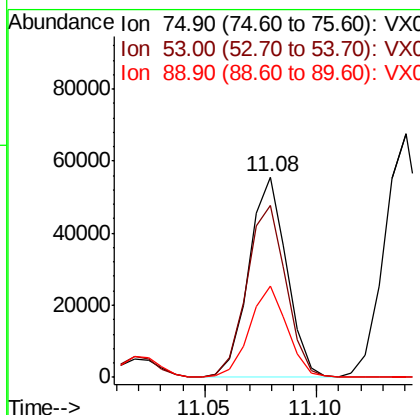
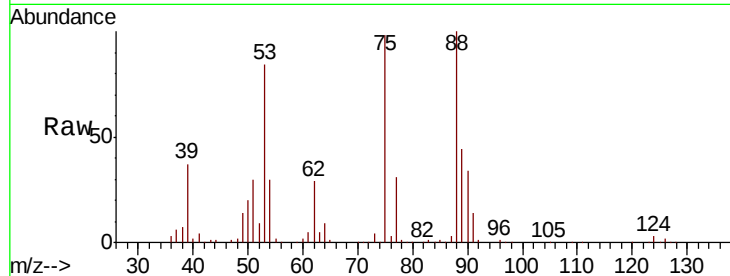
ClientSampleId :

VSTDIC100

Tot Ion:	75	Resp:	65563
Ion	Ratio	Lower	Upper
75	100		
53	89.9	74.9	112.3
89	45.2	36.6	54.8

Manual Integrations
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#82

4-Chlorotoluene

Concen: 95.20 ug/l

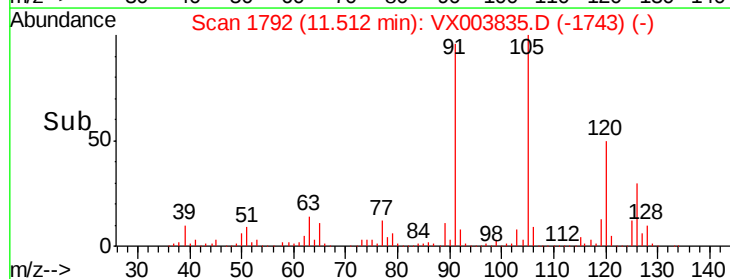
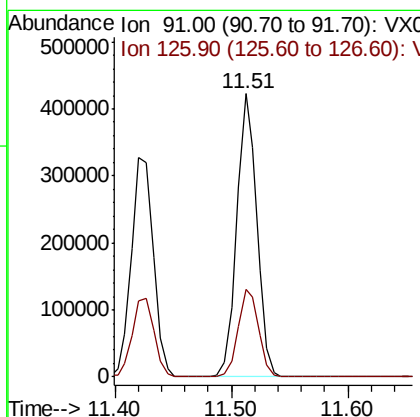
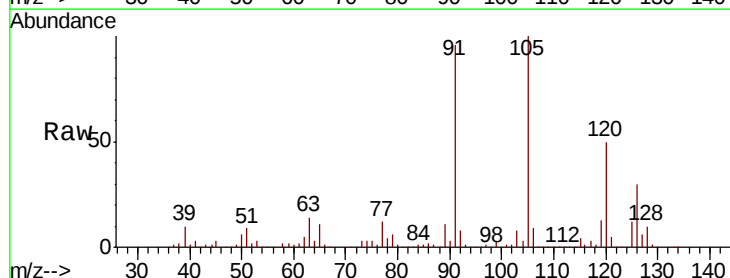
RT: 11.51 min Scan# 1792

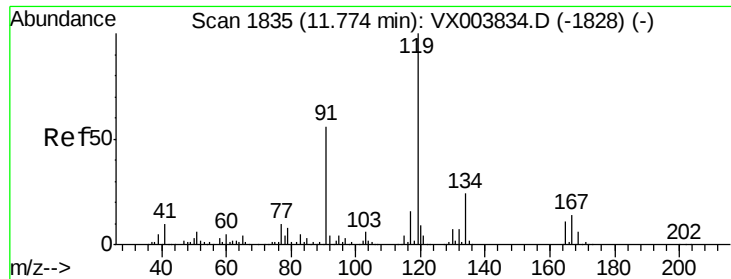
Delta R.T. 0.00 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

Tgt Ion:	91	Resp:	507872
Ion	Ratio	Lower	Upper
91	100		
126	31.6	16.0	47.9





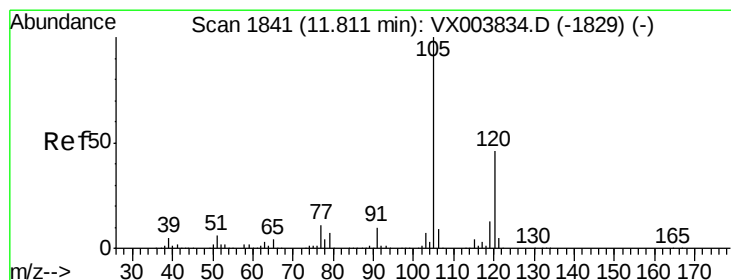
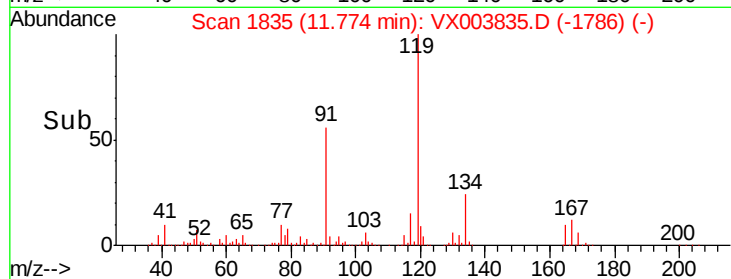
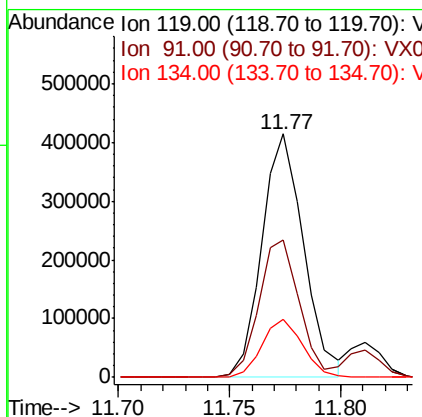
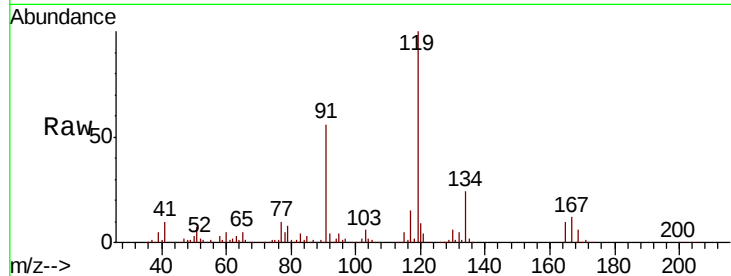
#83
 tert-Butylbenzene
 Concen: 101.44 ug/l
 RT: 11.77 min Scan# 1835
 Delta R.T. 0.00 min
 Lab File: VX003835.D
 Acq: 02 Aug 2018 20:42

Instrument :
 MSVOA_X
 ClientSampled :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
119	100	540315		
91	54.1	26.6	79.7	
134	23.1	11.6	34.7	

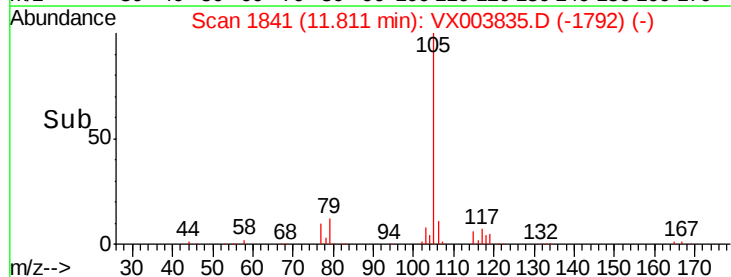
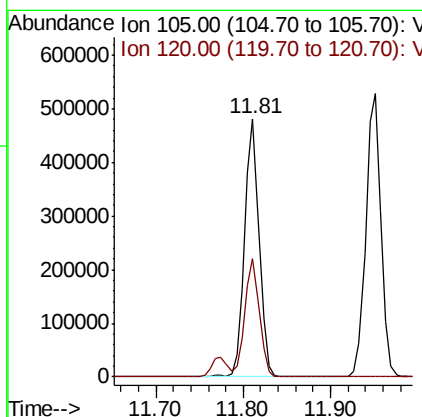
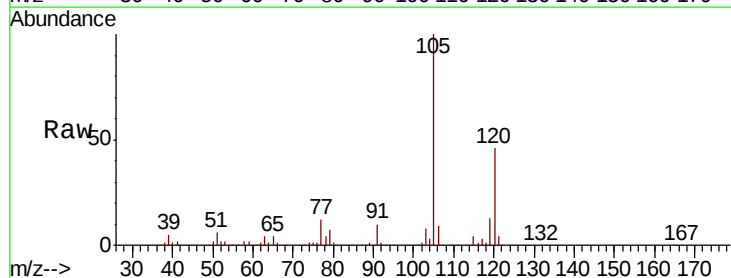
Manual Integrations
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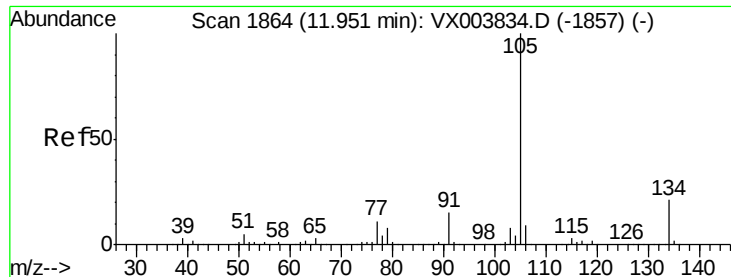
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 8/6/2018 1:35:50 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 99.68 ug/l
 RT: 11.81 min Scan# 1841
 Delta R.T. 0.00 min
 Lab File: VX003835.D
 Acq: 02 Aug 2018 20:42

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	559571		
120	45.7	22.9	68.5	





#85

sec-Butylbenzene

Concen: 101.66 ug/l

RT: 11.95 min Scan# 1864

Delta R.T. 0.00 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tot Ion:105 Resp: 638300

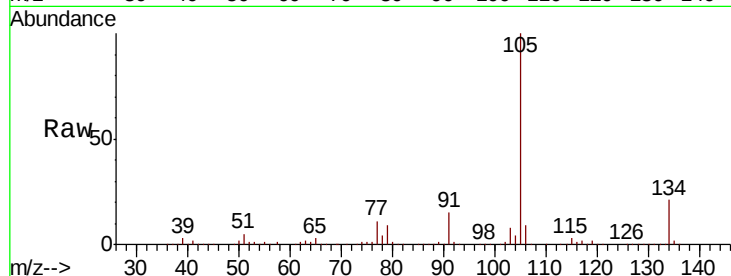
Ion Ratio Lower Upper

105 100

134 20.7 10.4 31.4

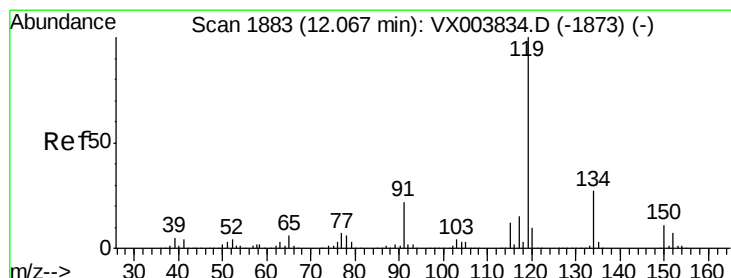
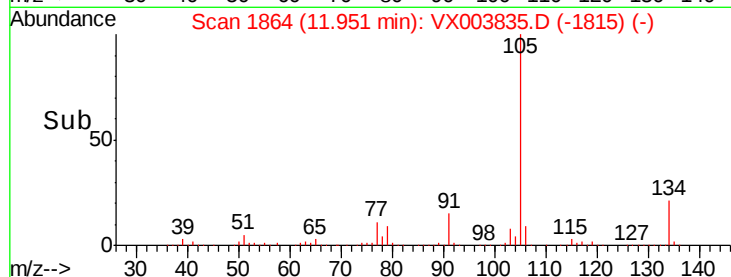
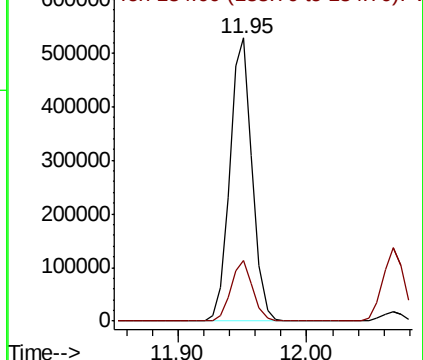
Manual Integrations
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 103.30 ug/l

RT: 12.07 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

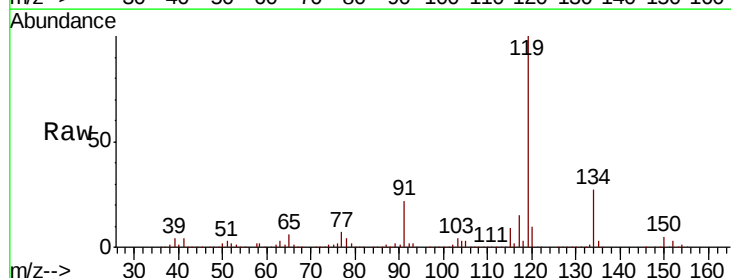
Tgt Ion:119 Resp: 585157

Ion Ratio Lower Upper

119 100

134 26.7 13.4 40.2

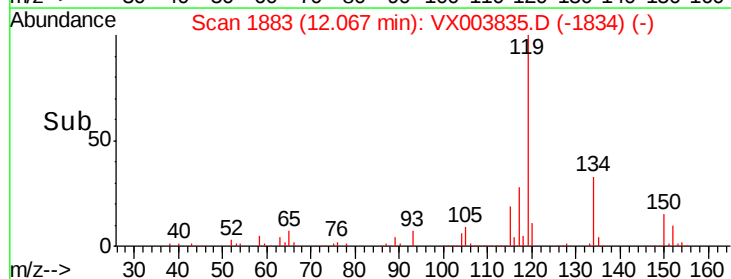
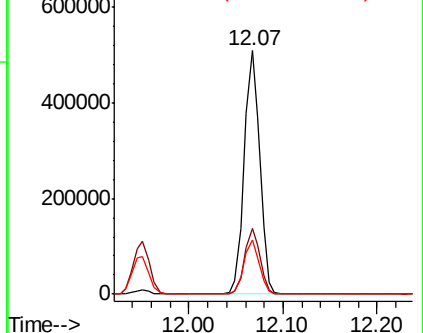
91 22.1 11.1 33.1

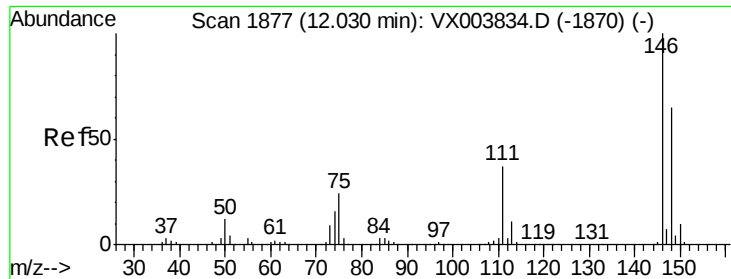


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





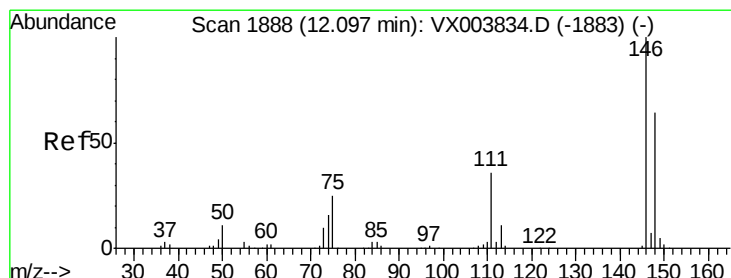
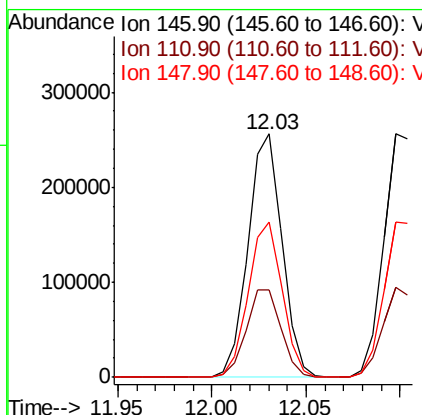
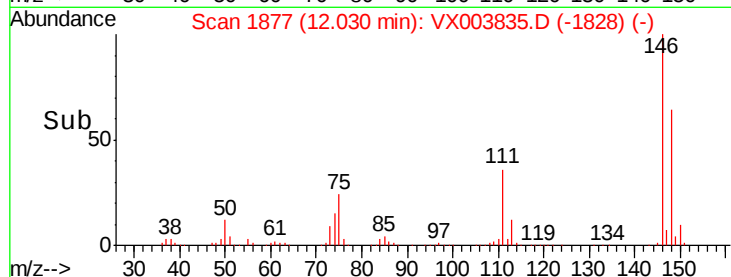
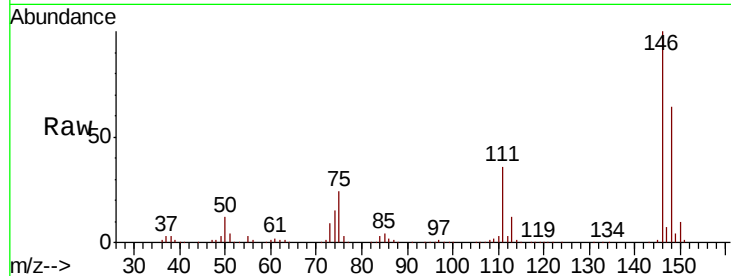
#87
 1,3-Dichlorobenzene
 Concen: 97.12 ug/l
 RT: 12.03 min Scan# 1877
 Delta R.T. 0.00 min
 Lab File: VX003835.D
 Acq: 02 Aug 2018 20:42

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.2	18.8	56.4
148	63.8	32.2	96.6

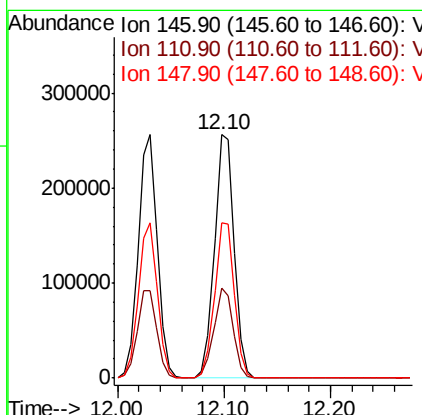
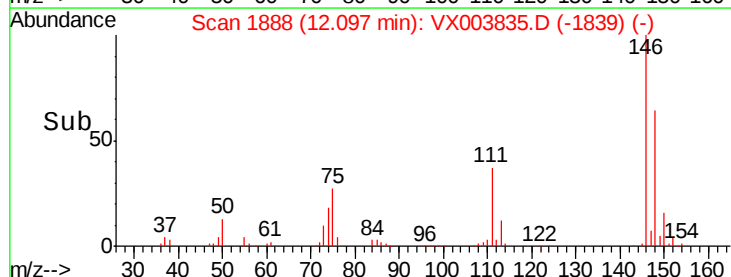
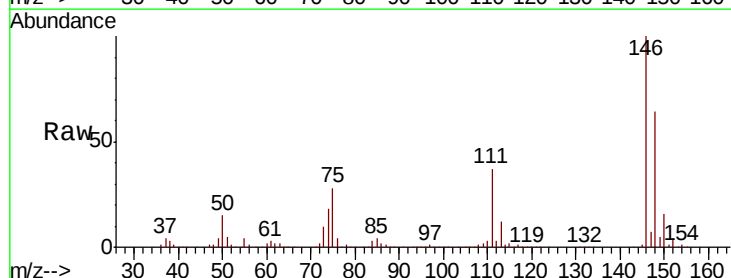
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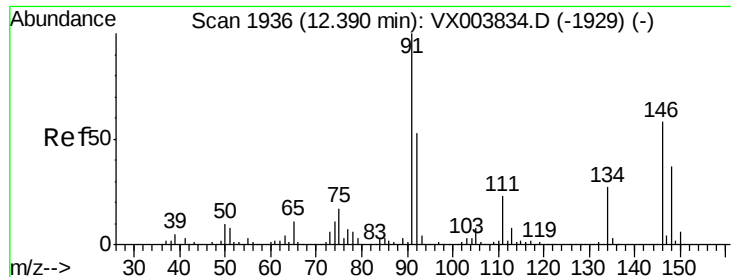
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 8/6/2018 1:35:50 PM



#88
 1,4-Dichlorobenzene
 Concen: 94.85 ug/l
 RT: 12.10 min Scan# 1888
 Delta R.T. 0.00 min
 Lab File: VX003835.D
 Acq: 02 Aug 2018 20:42

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.2	18.1	54.3
148	64.0	32.1	96.5





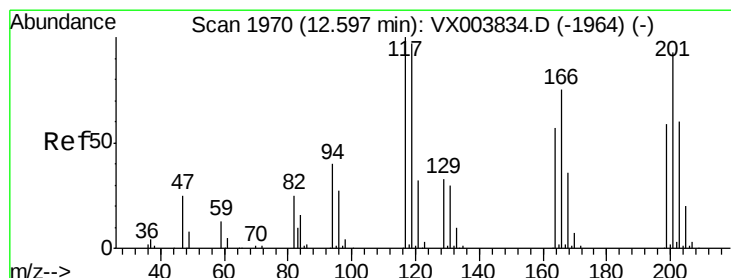
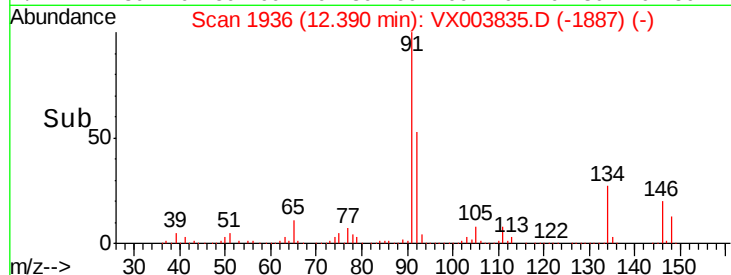
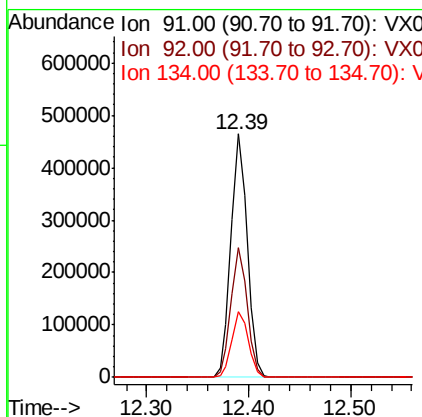
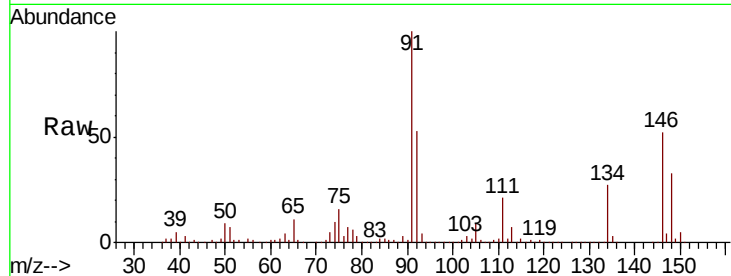
#89
n-Butylbenzene
Concen: 101.32 ug/l
RT: 12.39 min Scan# 1936
Delta R.T. 0.00 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.9	26.3	78.9
134	27.2	13.7	41.0

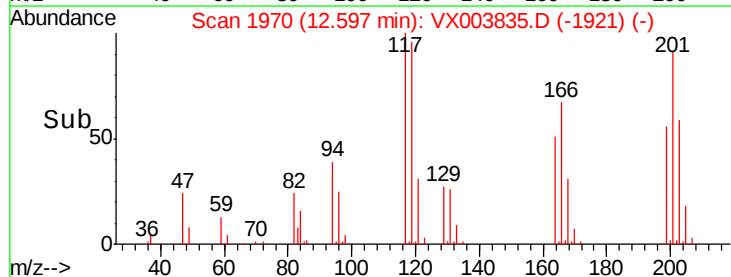
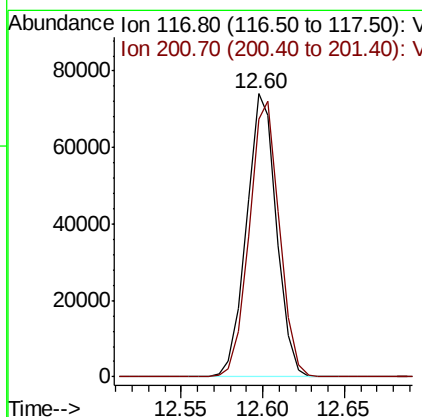
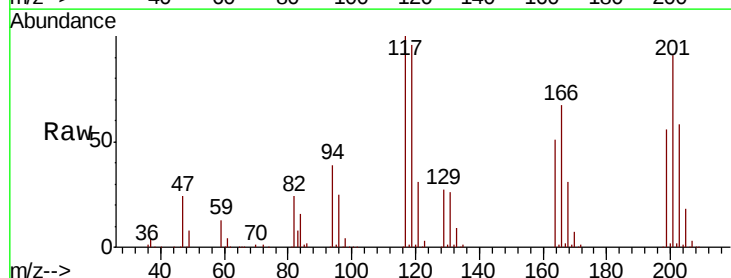
Manual Integrations
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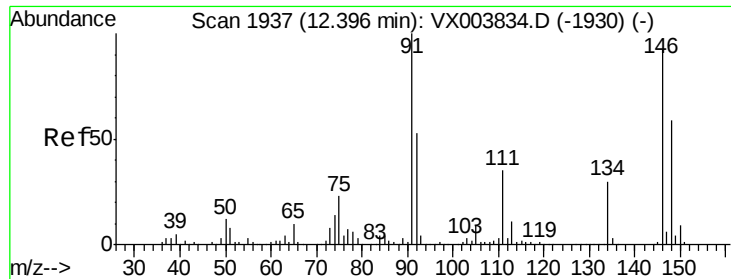
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8/6/2018 1:35:50 PM



#90
Hexachloroethane
Concen: 108.48 ug/l
RT: 12.60 min Scan# 1970
Delta R.T. 0.00 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Tgt Ion	Ratio	Lower	Upper
117	100		
201	97.8	49.9	149.6





#91

1,2-Dichlorobenzene

Concen: 96.14 ug/l

RT: 12.40 min Scan# 1937

Delta R.T. 0.00 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

Instrument :

MSVOA_X

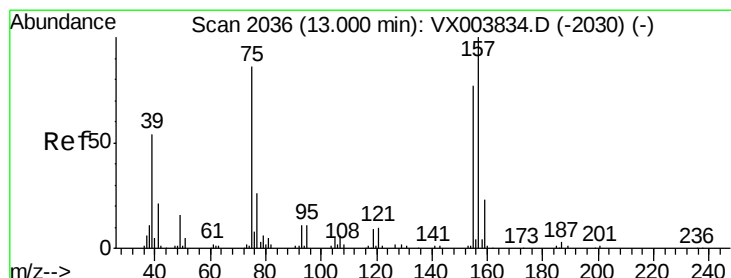
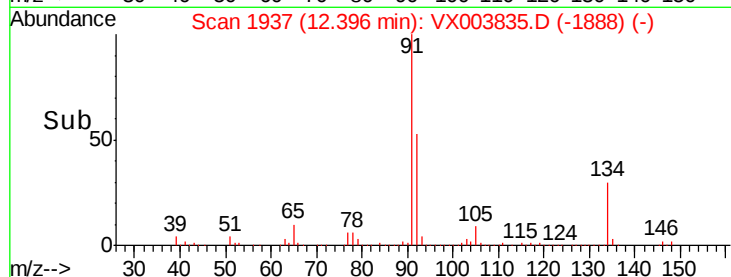
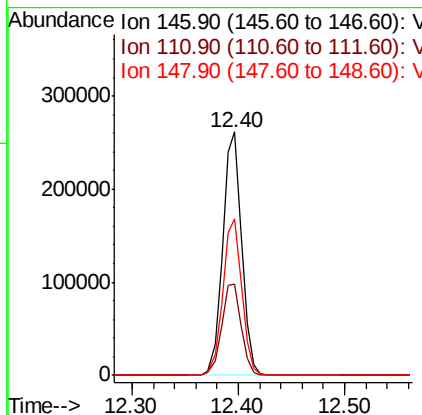
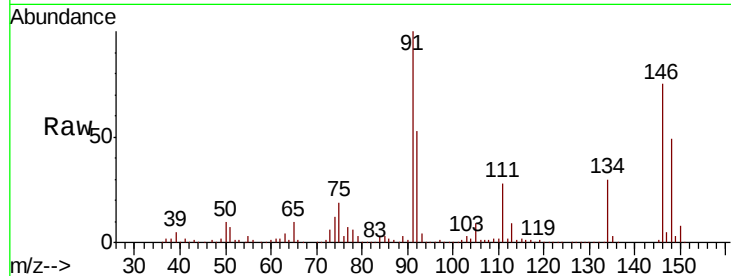
ClientSampleId :

VSTDIC100

Tot Ion:	146	Resp:	324786
Ion Ratio	Lower	Upper	
146	100		
111	38.6	19.1	57.5
148	64.3	32.0	96.2

Manual Integrations
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8/6/2018 1:35:50 PM



#92

1,2-Dibromo-3-Chloropropane

Concen: 97.27 ug/l

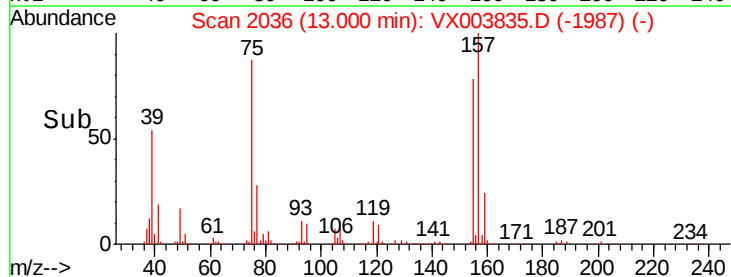
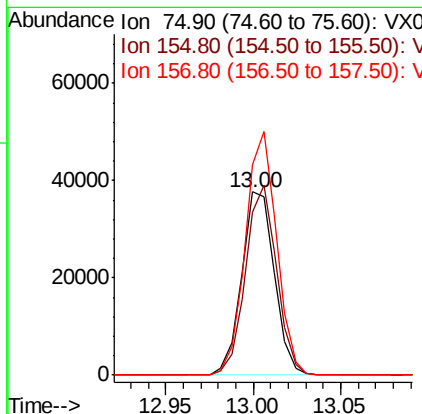
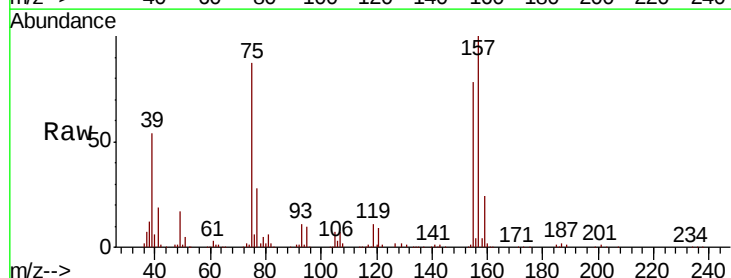
RT: 13.00 min Scan# 2036

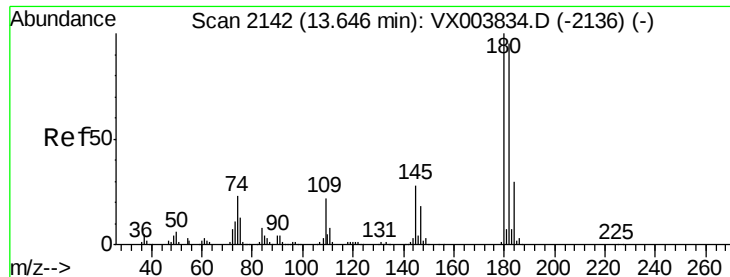
Delta R.T. 0.00 min

Lab File: VX003835.D

Acq: 02 Aug 2018 20:42

Tgt Ion:	75	Resp:	48868
Ion Ratio	Lower	Upper	
75	100		
155	98.6	49.5	148.3
157	127.1	64.5	193.5





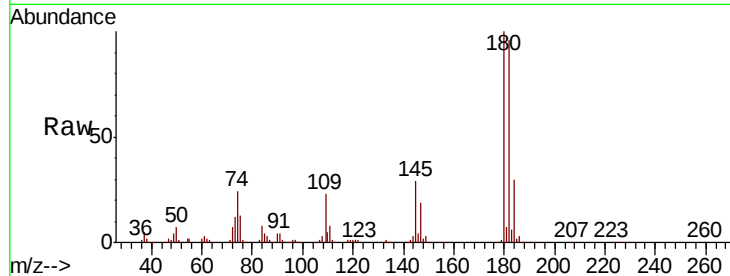
#93
 1,2,4-Trichlorobenzene
 Concen: 102.78 ug/l
 RT: 13.65 min Scan# 2142
 Delta R.T. 0.00 min
 Lab File: VX003835.D
 Acq: 02 Aug 2018 20:42

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
180	100	247676		
182	95.9	47.6	142.9	
145	28.0	13.8	41.3	

Manual Integrations
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 8/6/2018 1:35:50 PM

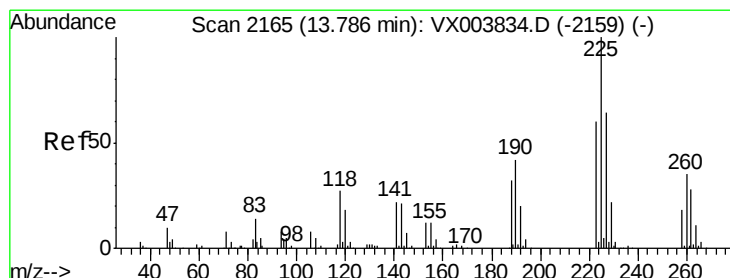
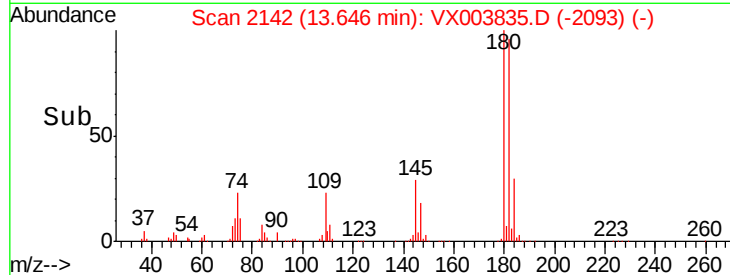
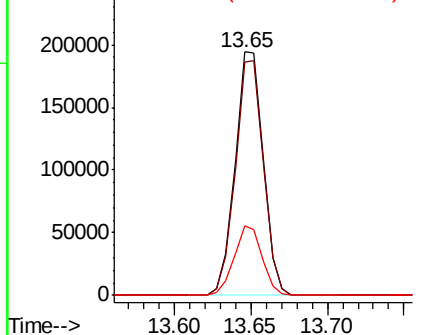


Abundance

Ion 179.80 (179.50 to 180.50): V

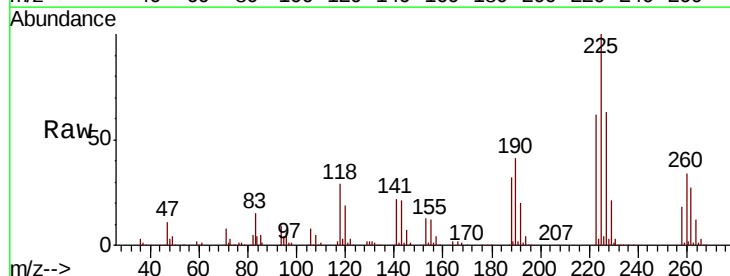
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 103.08 ug/l
 RT: 13.79 min Scan# 2165
 Delta R.T. 0.00 min
 Lab File: VX003835.D
 Acq: 02 Aug 2018 20:42

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	112094		
223	62.4	30.4	91.3	
227	63.4	32.2	96.6	

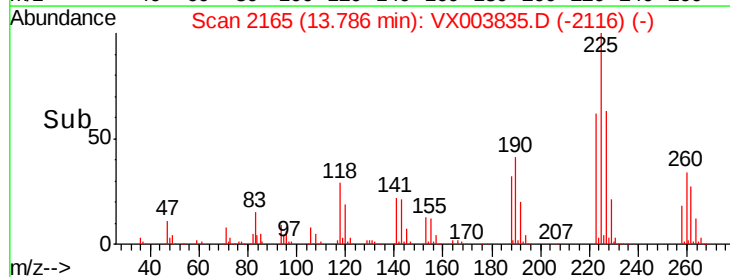
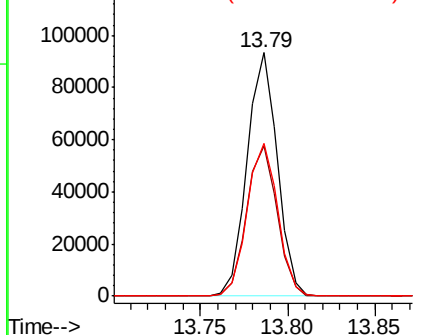


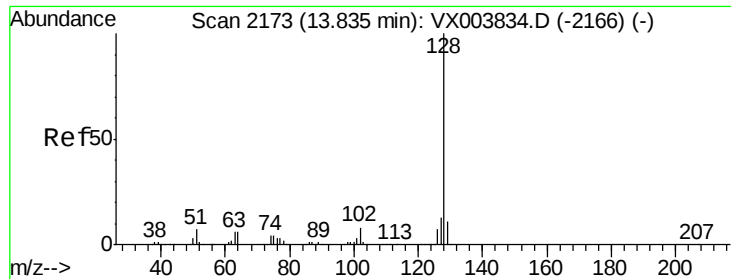
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





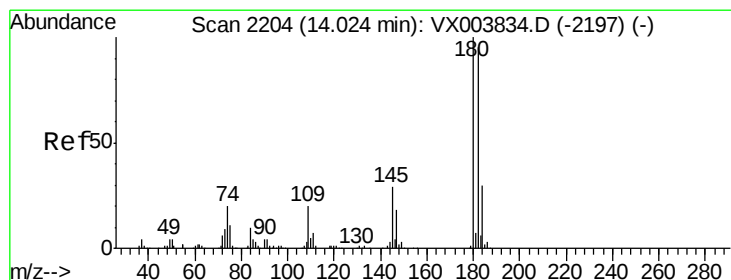
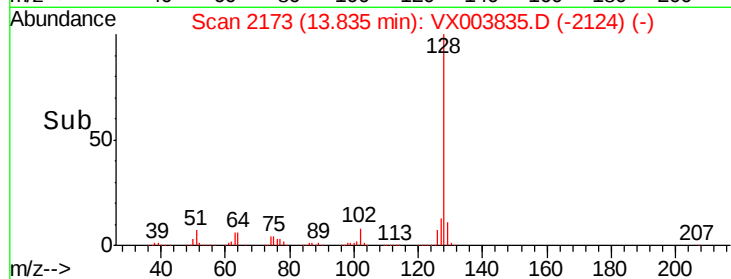
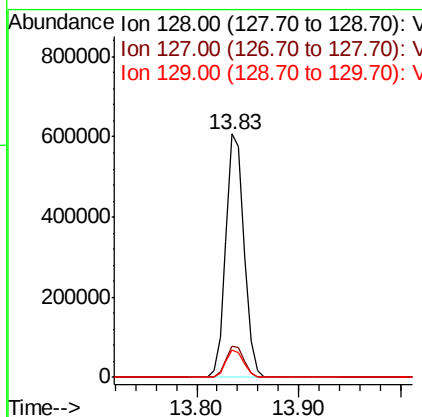
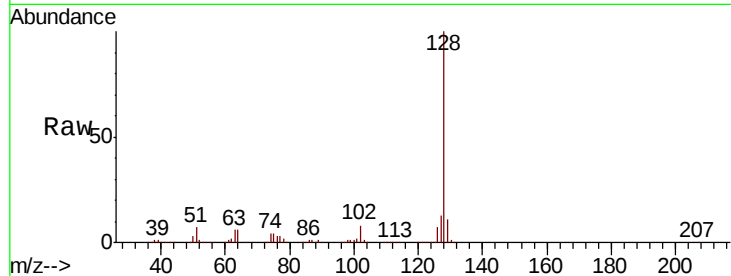
#95
Naphthalene
Concen: 103.12 ug/l
RT: 13.83 min Scan# 2173
Delta R.T. 0.00 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
128	100	751395		
127	12.8		10.2	15.4
129	11.0		8.7	13.1

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 102.35 ug/l
RT: 14.02 min Scan# 2204
Delta R.T. 0.00 min
Lab File: VX003835.D
Acq: 02 Aug 2018 20:42

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	250984		
182	95.9		47.8	143.4
145	29.5		14.6	44.0

