

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072418\
 Data File : VX003644.D
 Acq On : 24 Jul 2018 17:08
 Operator : JC/SP
 Sample : VSTDIC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 8/2/2018 11:54:16 AM

Quant Time: Jul 25 04:10:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X072418W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 25 03:58:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	115978	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	168642	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	161974	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	96022	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	35542	24.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	49.14%	
35) Dibromofluoromethane	5.50	113	28747	21.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	43.76%	
50) Toluene-d8	8.72	98	109599	22.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	44.32%	
62) 4-Bromofluorobenzene	11.14	95	39057	21.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	43.30%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	26264	23.630	ug/l	91
3) Chloromethane	1.32	50	32257	23.159	ug/l	100
4) Vinyl Chloride	1.40	62	35601	23.511	ug/l	98
5) Bromomethane	1.64	94	17159	19.632	ug/l	95
6) Chloroethane	1.72	64	21597	23.600	ug/l	98
7) Trichlorofluoromethane	1.93	101	46916	23.109	ug/l	93
8) Diethyl Ether	2.19	74	19555	22.445	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	2.39	101	27333	20.784	ug/l	96
10) Methyl Iodide	2.51	142	33191	20.776	ug/l	100
11) Tert butyl alcohol	3.08	59	40675	136.542	ug/l	100
12) 1,1-Dichloroethene	2.37	96	26576	21.908	ug/l	92
13) Acrolein	2.29	56	20598	145.288	ug/l	100
14) Allyl chloride	2.73	41	56325	25.344	ug/l	97
15) Acrylonitrile	3.15	53	98083	132.183	ug/l	100
16) Acetone	2.45	43	78197	138.266	ug/l	99
17) Carbon Disulfide	2.57	76	74355	20.591	ug/l	100
18) Methyl Acetate	2.78	43	48886	27.700	ug/l	99
19) Methyl tert-butyl Ether	3.21	73	92457	22.973	ug/l	98
20) Methylene Chloride	2.85	84	31667	21.045	ug/l	97
21) trans-1,2-Dichloroethene	3.17	96	28285	20.942	ug/l	99
22) Diisopropyl ether	3.88	45	104481	25.103	ug/l #	93
23) Vinyl Acetate	3.83	43	442602	127.917	ug/l	100
24) 1,1-Dichloroethane	3.70	63	56464	23.486	ug/l	100
25) 2-Butanone	4.71	43	123836	132.523	ug/l	99
26) 2,2-Dichloropropane	4.59	77	36008	20.266	ug/l	99
27) cis-1,2-Dichloroethene	4.60	96	30652	20.524	ug/l	93
28) Bromochloromethane	5.02	49	21563	20.942	ug/l	100
29) Tetrahydrofuran	5.17	42	79560	128.136	ug/l	97
30) Chloroform	5.21	83	52816	22.730	ug/l	92
31) Cyclohexane	5.57	56	46266	21.780	ug/l	99
32) 1,1,1-Trichloroethane	5.49	97	42854	21.538	ug/l	96
36) 1,1-Dichloropropene	5.81	75	38894	21.024	ug/l	100
37) Ethyl Acetate	4.87	43	46932	25.653	ug/l	99
38) Carbon Tetrachloride	5.78	117	37986	21.051	ug/l	92

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 Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	43594	19.899	ug/l	97
40) Benzene	6.15	78	120155	21.423	ug/l	99
41) Methacrylonitrile	5.07	41	25947	24.233	ug/l	99
42) 1,2-Dichloroethane	6.20	62	41273	22.921	ug/l	99
43) Isopropyl Acetate	6.48	43	69347	23.983	ug/l	99
44) Trichloroethene	7.22	130	31303	19.102	ug/l	99
45) 1,2-Dichloropropane	7.52	63	31570	22.097	ug/l	97
46) Dibromomethane	7.66	93	19783	21.584	ug/l	98
47) Bromodichloromethane	7.90	83	36273	21.532	ug/l	98
48) Methyl methacrylate	7.78	41	35509	24.317	ug/l	99
49) 1,4-Dioxane	7.76	88	16120	489.703	ug/l	98
51) 4-Methyl-2-Pentanone	8.65	43	237162	128.666	ug/l	99
52) Toluene	8.79	92	73826	21.017	ug/l	99
53) t-1,3-Dichloropropene	8.44	75	44241	21.403	ug/l	99
54) cis-1,3-Dichloropropene	9.05	75	39662	21.279	ug/l	99
55) 1,1,2-Trichloroethane	9.22	97	30277	21.541	ug/l	99
56) Ethyl methacrylate	9.19	69	44736	22.348	ug/l	99
57) 1,3-Dichloropropane	9.38	76	50821	22.248	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.32	63	115481	117.342	ug/l	100
59) 2-Hexanone	9.50	43	182659	132.642	ug/l	99
60) Dibromochloromethane	9.59	129	28357	20.528	ug/l	100
61) 1,2-Dibromoethane	9.68	107	31423	21.582	ug/l	99
64) Tetrachloroethene	9.34	164	29266	15.448	ug/l	97
65) Chlorobenzene	10.14	112	81644	19.573	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.23	131	28040	19.544	ug/l	99
67) Ethyl Benzene	10.26	91	136060	20.113	ug/l	100
68) m/p-Xylenes	10.36	106	106810	40.418	ug/l	99
69) o-Xylene	10.70	106	51059	20.013	ug/l	99
70) Styrene	10.71	104	86833	20.629	ug/l	99
71) Bromoform	10.86	173	21294	19.071	ug/l #	99
73) Isopropylbenzene	11.02	105	137304	20.615	ug/l	100
74) N-amyl acetate	6.48	43	69347	23.617	ug/l #	99
75) 1,1,2,2-Tetrachloroethane	11.27	83	48684	24.082	ug/l	100
76) 1,2,3-Trichloropropane	11.30	75	41040m	23.124	ug/l	
77) Bromobenzene	11.26	156	36121	19.041	ug/l	99
78) n-propylbenzene	11.37	91	158655	21.268	ug/l	99
79) 2-Chlorotoluene	11.43	91	95092	21.014	ug/l	99
80) 1,3,5-Trimethylbenzene	11.51	105	117488	21.335	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.08	75	12780	22.830	ug/l	93
82) 4-Chlorotoluene	11.51	91	112109	21.106	ug/l	100
83) tert-Butylbenzene	11.77	119	110870	20.590	ug/l	99
84) 1,2,4-Trimethylbenzene	11.81	105	120817	21.543	ug/l	100
85) sec-Butylbenzene	11.95	105	135282	20.715	ug/l	100
86) p-Isopropyltoluene	12.07	119	119348	20.389	ug/l	99
87) 1,3-Dichlorobenzene	12.03	146	67000	19.123	ug/l	99
88) 1,4-Dichlorobenzene	12.10	146	68156	18.852	ug/l	99
89) n-Butylbenzene	12.39	91	104511	20.861	ug/l	98
90) Hexachloroethane	12.60	117	16657	19.830	ug/l	99
91) 1,2-Dichlorobenzene	12.40	146	68442	19.796	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.01	75	9980	24.936	ug/l	100

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ClientSampleId :
VSTDICC020

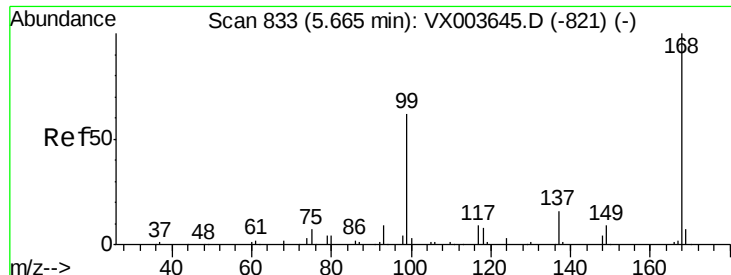
Manual Integrations
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Quant Title : SW846 8260
QLast Update : Wed Jul 25 03:58:23 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	47051	18.601	ug/l	99
94) Hexachlorobutadiene	13.79	225	21653	17.986	ug/l	99
95) Naphthalene	13.83	128	147637	21.678	ug/l	100
96) 1,2,3-Trichlorobenzene	14.02	180	48595	19.296	ug/l	98

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



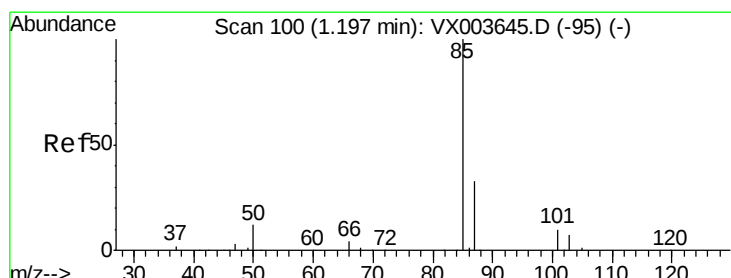
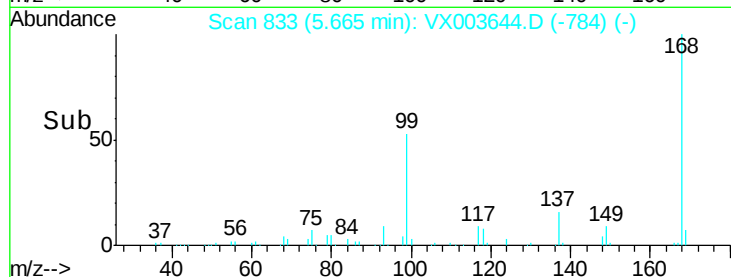
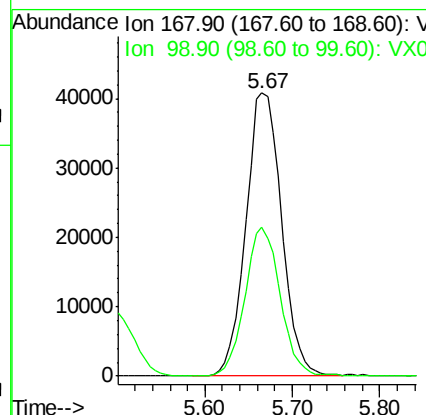
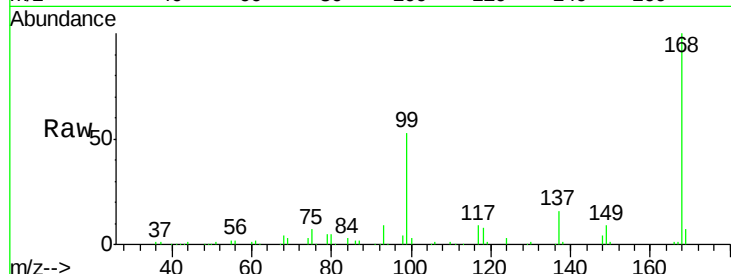
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.00 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Instrument :
MSVOA_X
ClientSampled :
VSTDIC020

Tot Ion:168 Resp: 115978
Ion Ratio Lower Upper
168 100
99 52.7 49.5 74.3

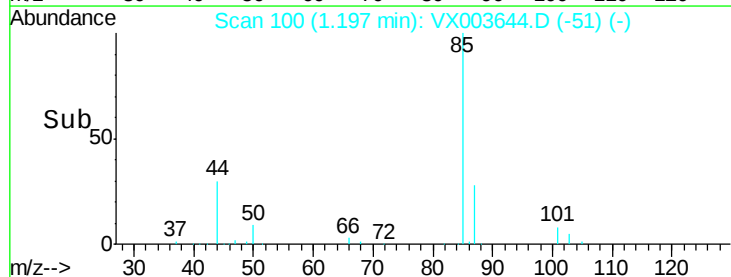
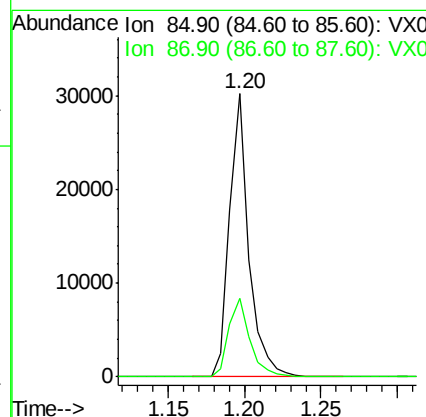
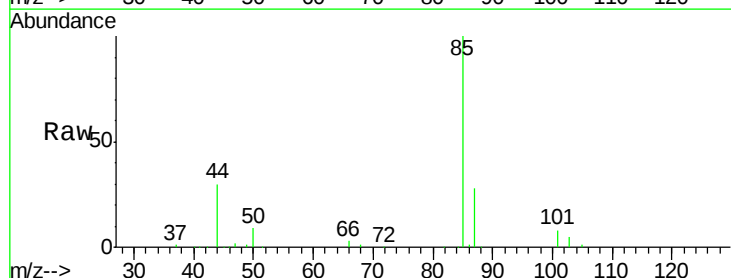
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#2
Dichlorodifluoromethane
Concen: 23.630 ug/l
RT: 1.20 min Scan# 100
Delta R.T. 0.00 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Tgt Ion: 85 Resp: 26264
Ion Ratio Lower Upper
85 100
87 28.0 16.5 49.5





#3

Chloromethane

Concen: 23.159 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 32257

Ion Ratio Lower Upper

50 100

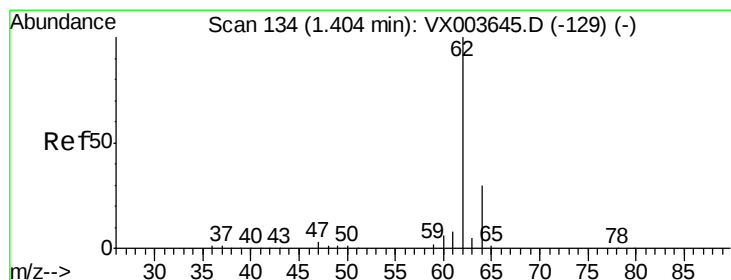
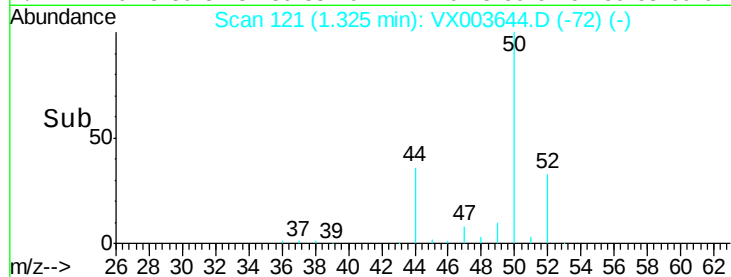
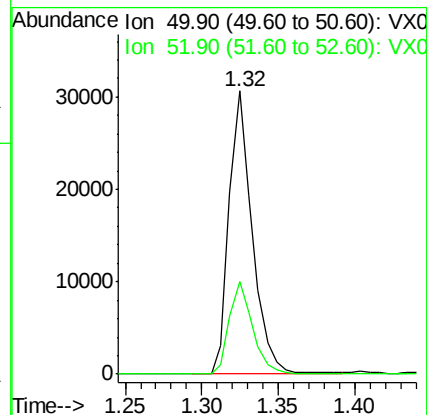
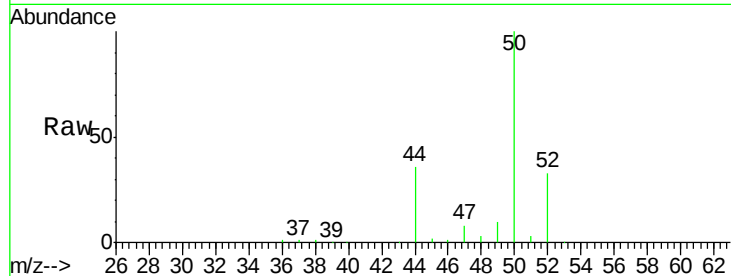
52 32.8 26.3 39.5

Manual Integrations

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#4

Vinyl Chloride

Concen: 23.511 ug/l

RT: 1.40 min Scan# 134

Delta R.T. 0.00 min

Lab File: VX003644.D

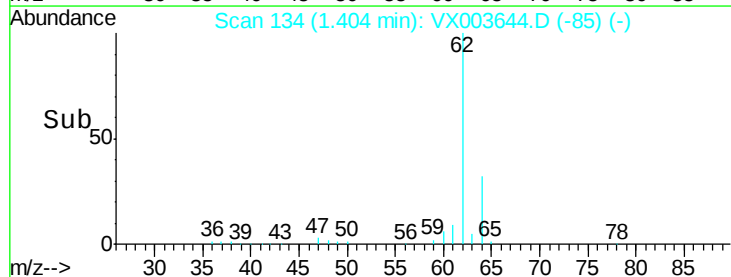
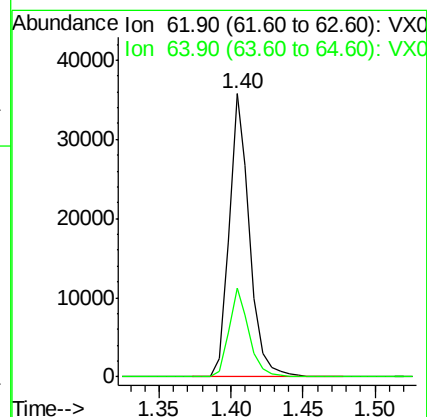
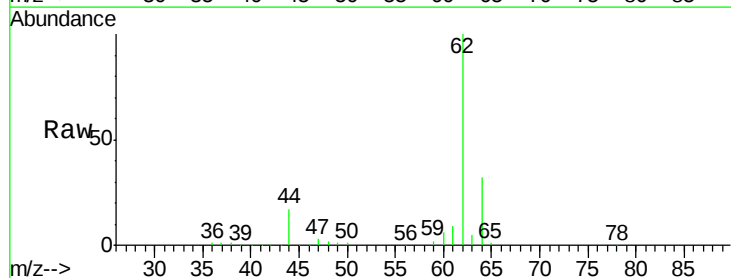
Acq: 24 Jul 2018 17:08

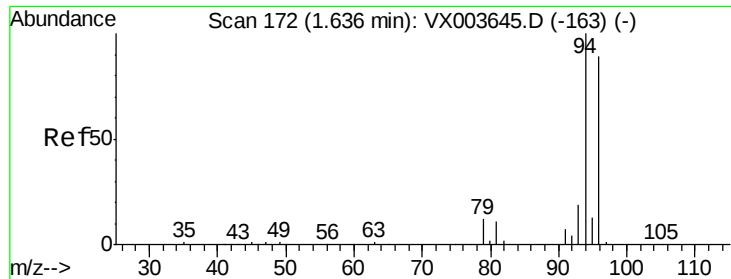
Tgt Ion: 62 Resp: 35601

Ion Ratio Lower Upper

62 100

64 31.5 24.4 36.6





#5

Bromomethane

Concen: 19.632 ug/l

RT: 1.64 min Scan# 172

Delta R.T. 0.00 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion: 94 Resp: 17159

Ion Ratio Lower Upper

94 100

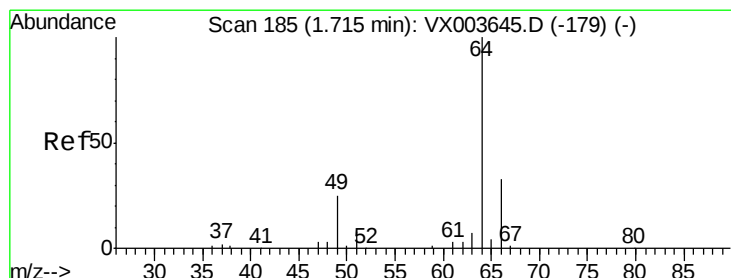
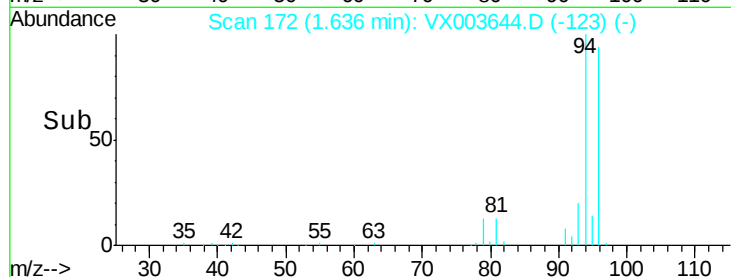
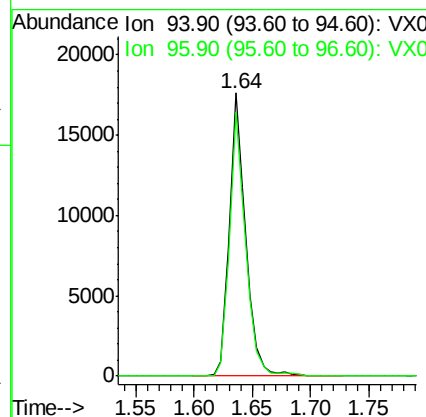
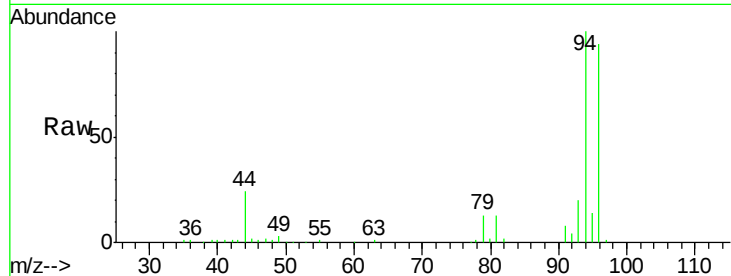
96 93.6 71.3 106.9

Manual Integrations

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#6

Chloroethane

Concen: 23.600 ug/l

RT: 1.72 min Scan# 186

Delta R.T. 0.01 min

Lab File: VX003644.D

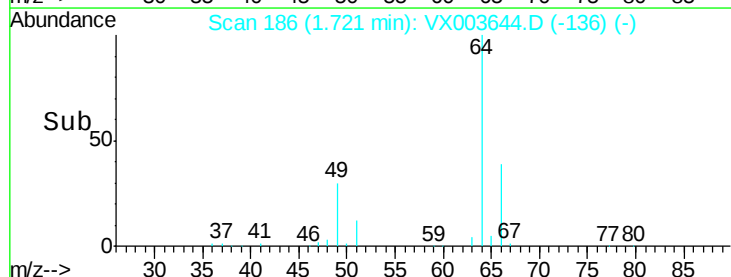
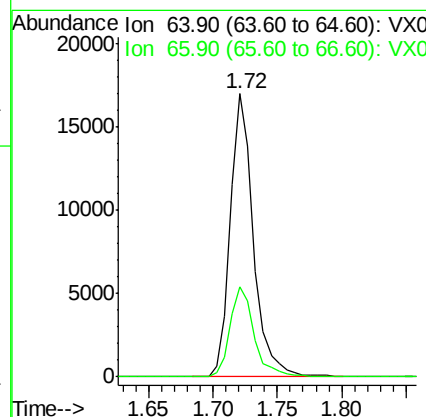
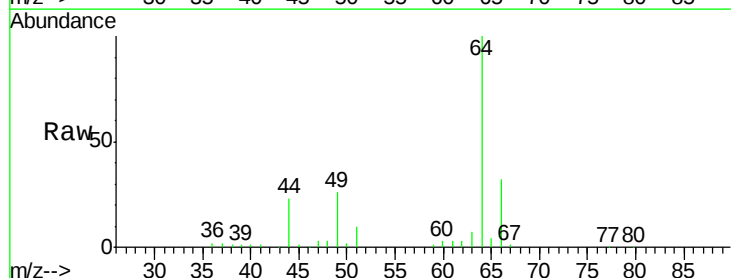
Acq: 24 Jul 2018 17:08

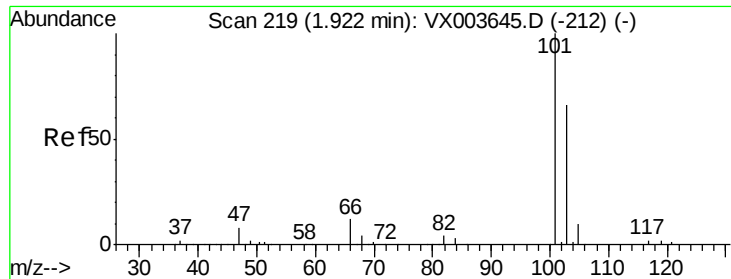
Tgt Ion: 64 Resp: 21597

Ion Ratio Lower Upper

64 100

66 31.9 26.3 39.5





#7

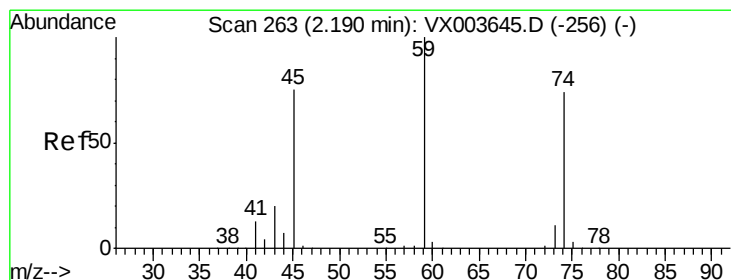
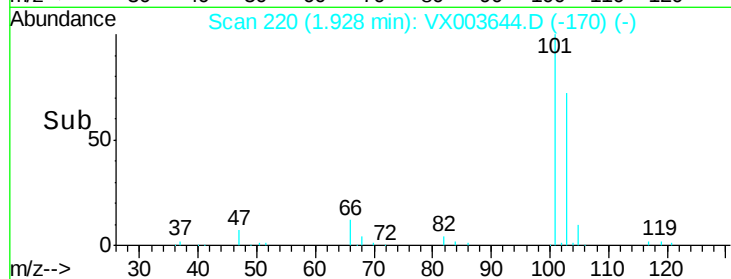
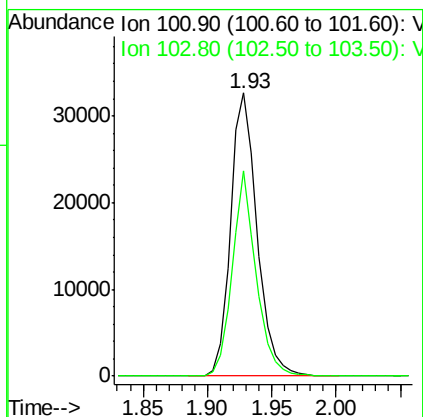
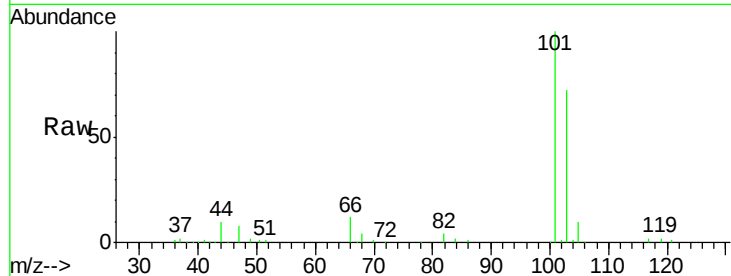
Trichlorofluoromethane
Concen: 23.109 ug/l
RT: 1.93 min Scan# 220
Delta R.T. 0.01 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion:101 Resp: 46916
Ion Ratio Lower Upper
101 100
103 72.4 53.2 79.8

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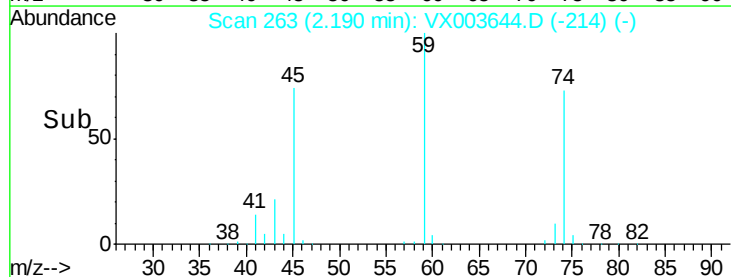
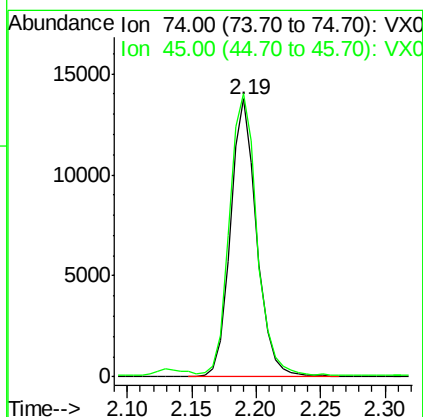
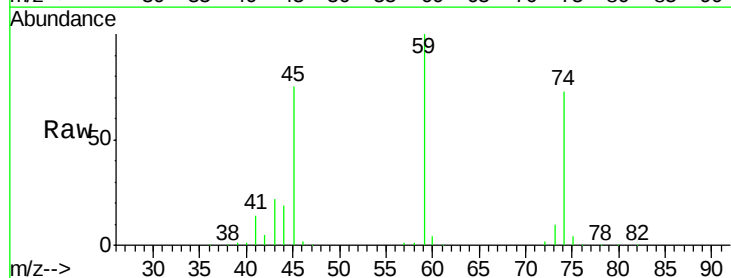
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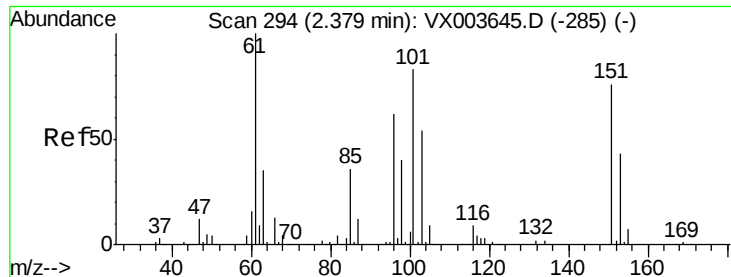


#8

Diethyl Ether
Concen: 22.445 ug/l
RT: 2.19 min Scan# 263
Delta R.T. -0.00 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Tgt Ion: 74 Resp: 19555
Ion Ratio Lower Upper
74 100
45 107.8 51.0 153.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.784 ug/l

RT: 2.39 min Scan# 295

Delta R.T. 0.01 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

Instrument :

MSVOA_X

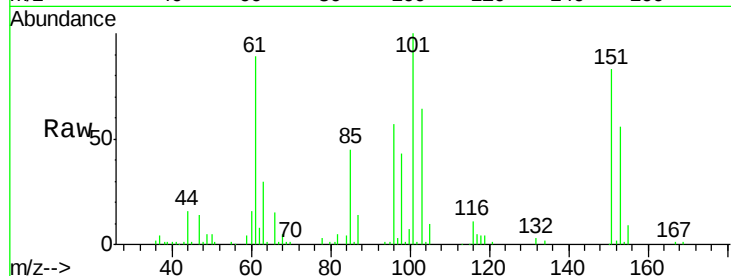
ClientSampleId :

VSTDIC020

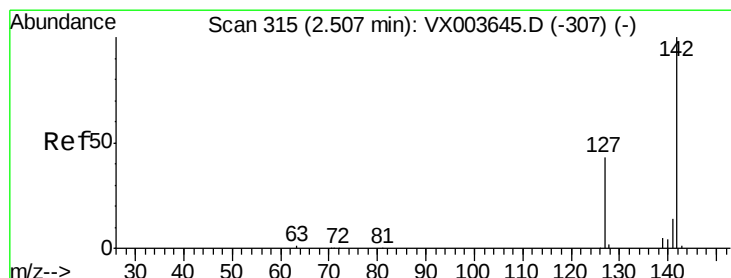
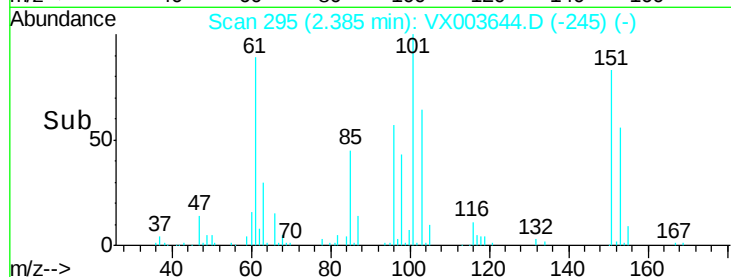
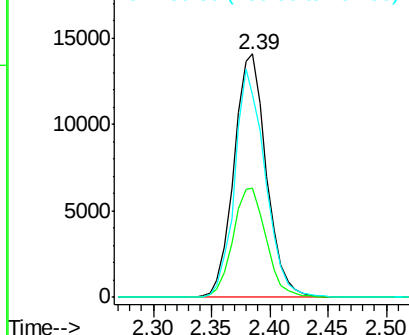
Tot Ion:	101	Resp:	27333
Ion Ratio	Lower	Upper	
101	100		
85	45.7	34.6	52.0
151	88.0	67.5	101.3

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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: 20.776 ug/l

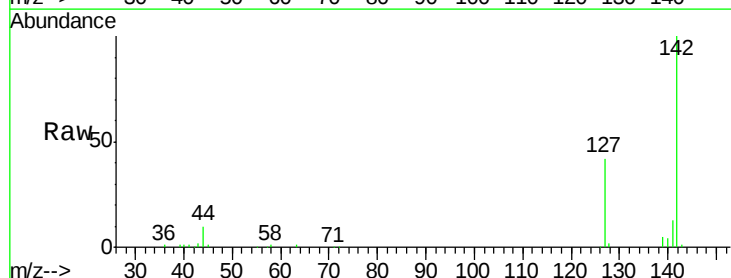
RT: 2.51 min Scan# 316

Delta R.T. 0.01 min

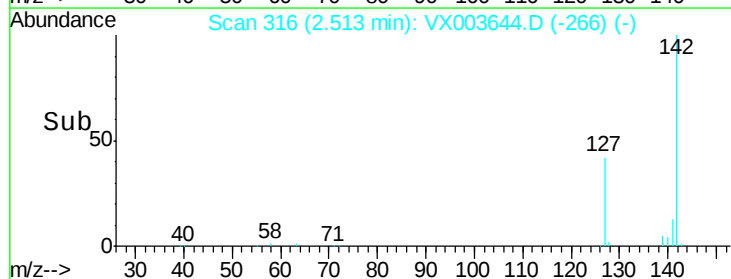
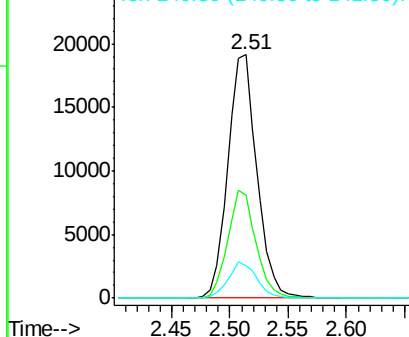
Lab File: VX003644.D

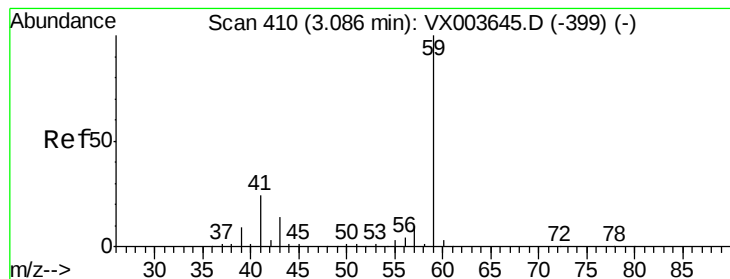
Acq: 24 Jul 2018 17:08

Tgt Ion:	142	Resp:	33191
Ion Ratio	Lower	Upper	
142	100		
127	42.7	34.0	51.0
141	14.4	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

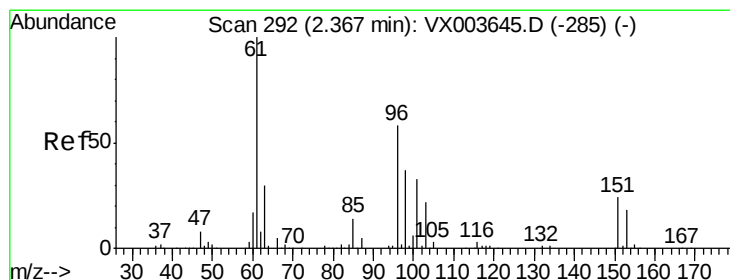
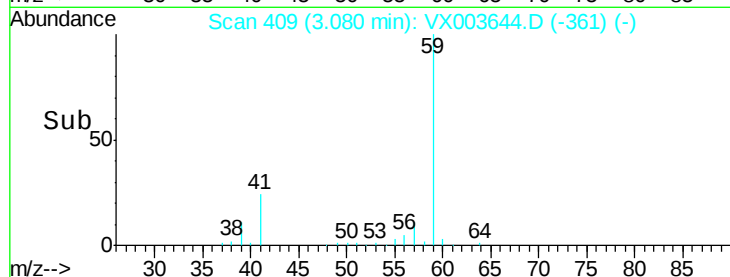
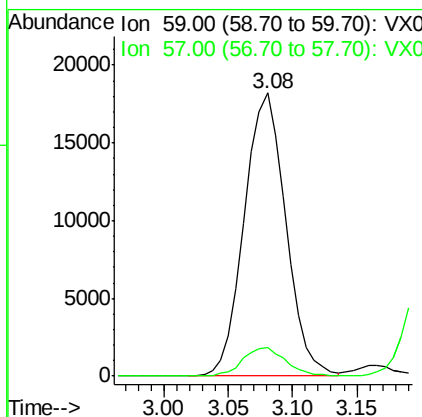
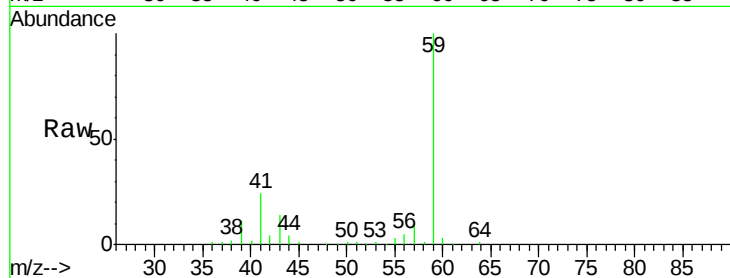
Tert butyl alcohol
 Concen: 136.542 ug/l
 RT: 3.08 min Scan# 409
 Delta R.T. -0.01 min
 Lab File: VX003644.D
 Acq: 24 Jul 2018 17:08

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.2	12.4

Manual Integrations
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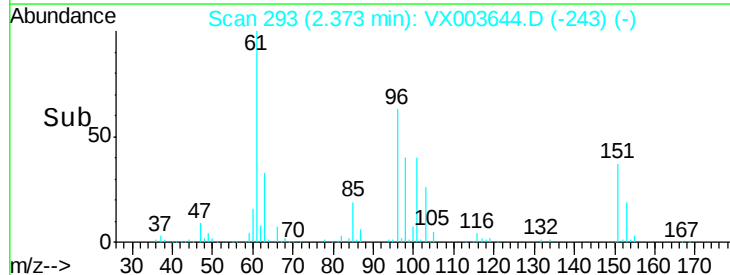
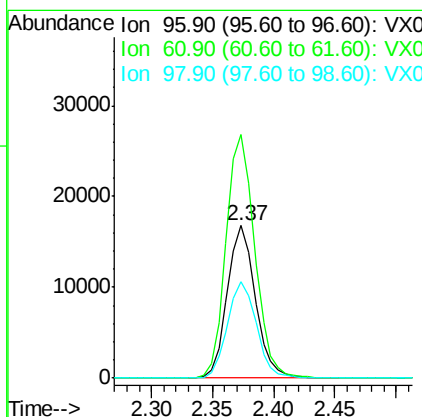
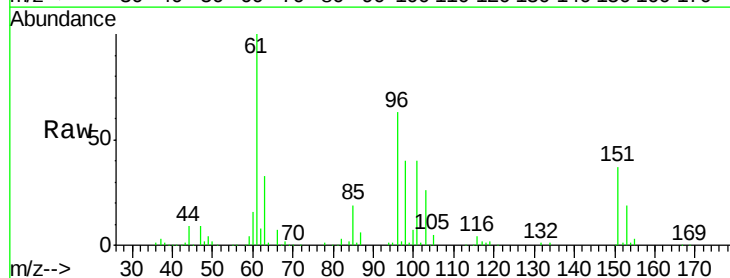
MMDadoda
 8/2/2018 11:54:16 AM

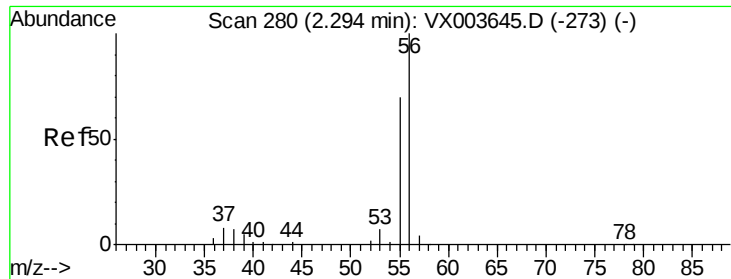


#12

1,1-Dichloroethene
 Concen: 21.908 ug/l
 RT: 2.37 min Scan# 293
 Delta R.T. 0.01 min
 Lab File: VX003644.D
 Acq: 24 Jul 2018 17:08

Tgt Ion	Ratio	Lower	Upper
96	100		
61	159.7	138.8	208.2
98	63.2	51.4	77.2





#13

Acrolein

Concen: 145.288 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion: 56 Resp: 20598

Ion Ratio Lower Upper

56 100

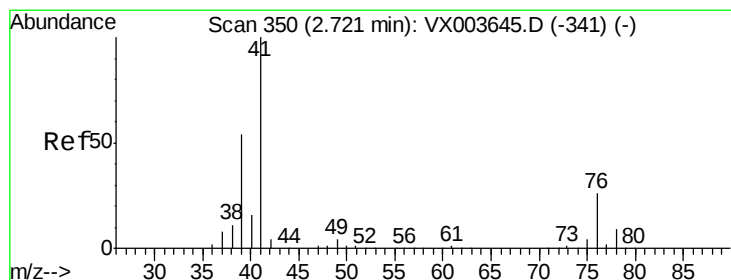
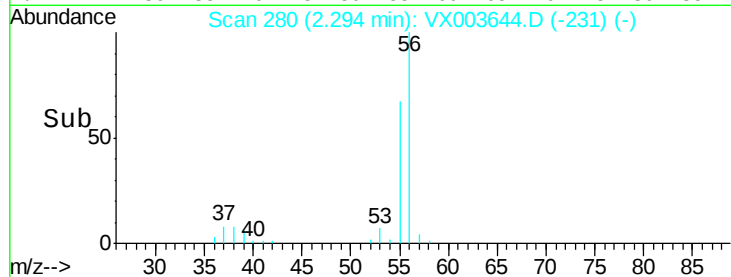
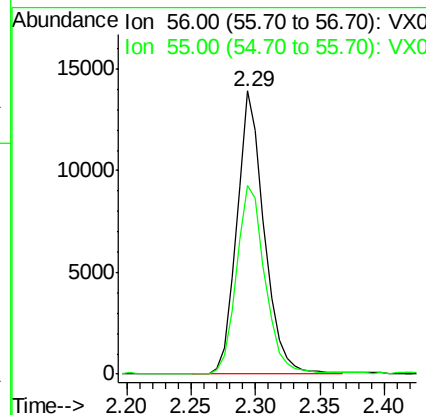
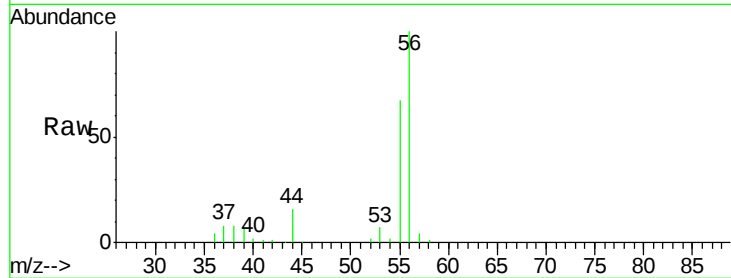
55 69.6 55.4 83.2

Manual Integrations

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#14

Allyl chloride

Concen: 25.344 ug/l

RT: 2.73 min Scan# 351

Delta R.T. 0.01 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

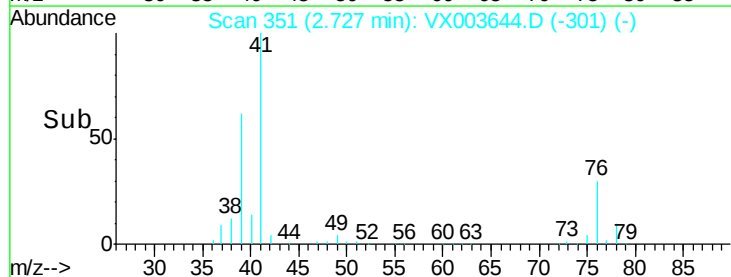
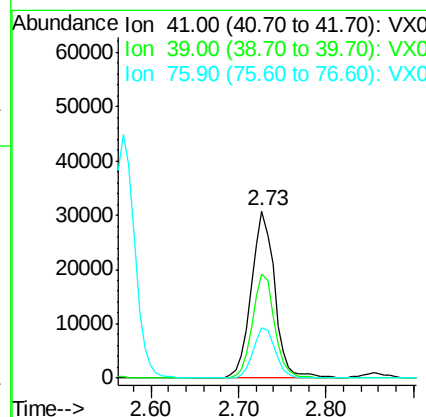
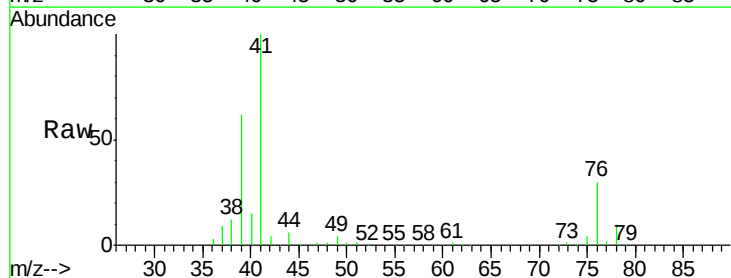
Tgt Ion: 41 Resp: 56325

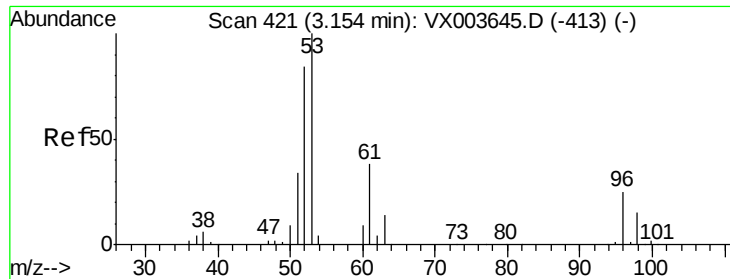
Ion Ratio Lower Upper

41 100

39 59.0 45.3 67.9

76 28.9 23.8 35.6





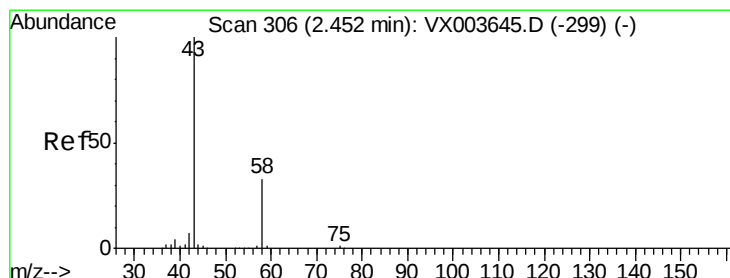
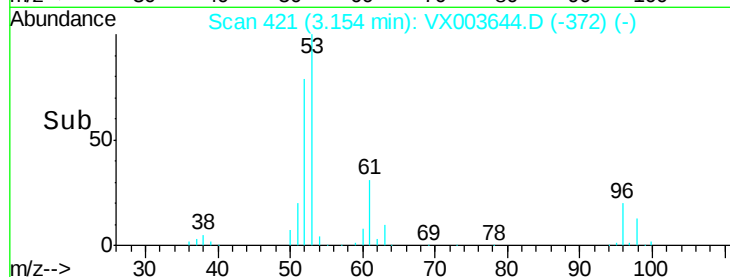
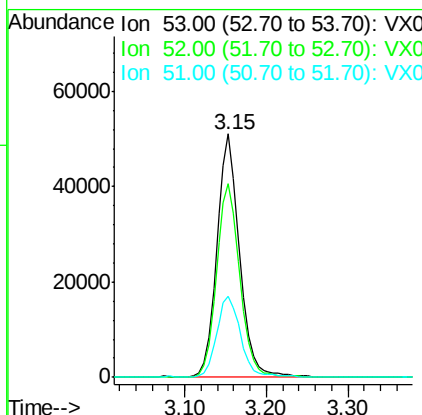
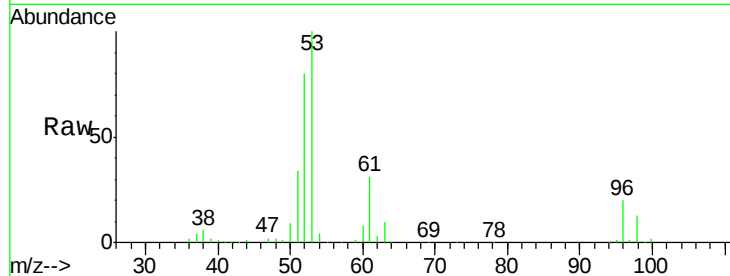
#15
 Acrylonitrile
 Concen: 132.183 ug/l
 RT: 3.15 min Scan# 421
 Delta R.T. 0.00 min
 Lab File: VX003644.D
 Acq: 24 Jul 2018 17:08

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
53	100		
52	82.9	66.1	99.1
51	35.6	28.2	42.4

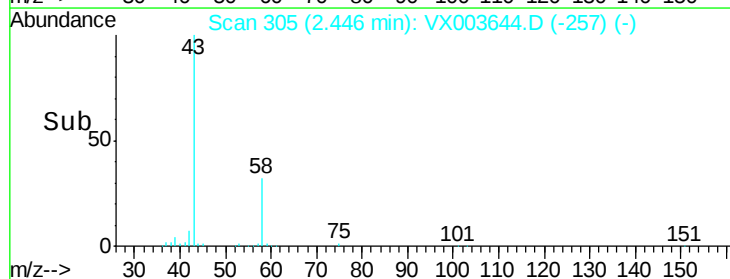
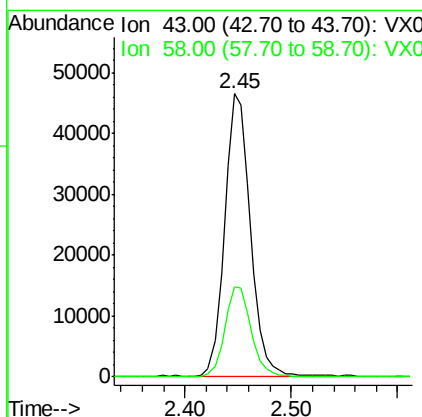
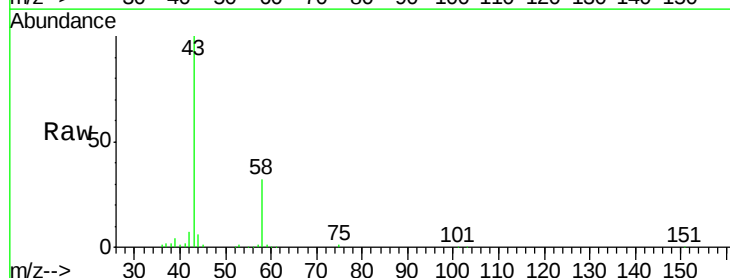
Manual Integrations
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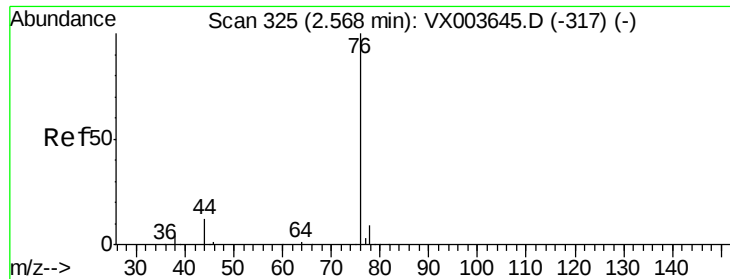
MMDadoda
 8/2/2018 11:54:16 AM



#16
 Acetone
 Concen: 138.266 ug/l
 RT: 2.45 min Scan# 305
 Delta R.T. -0.01 min
 Lab File: VX003644.D
 Acq: 24 Jul 2018 17:08

Tgt Ion	Ratio	Lower	Upper
43	100		
58	32.1	26.1	39.1





#17

Carbon Disulfide

Concen: 20.591 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

Instrument :

MSVOA_X

ClientSampled :

VSTDIC020

Tot Ion: 76 Resp: 74355

Ion Ratio Lower Upper

76 100

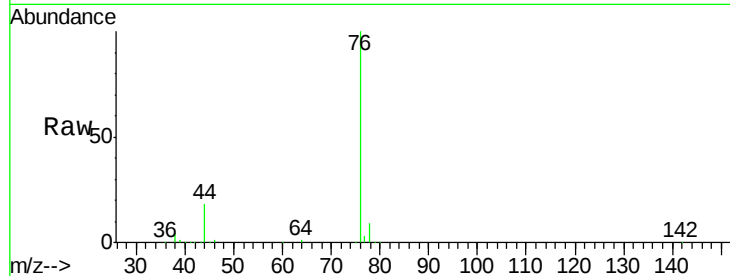
78 9.2 7.4 11.0

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

2.57

50000

40000

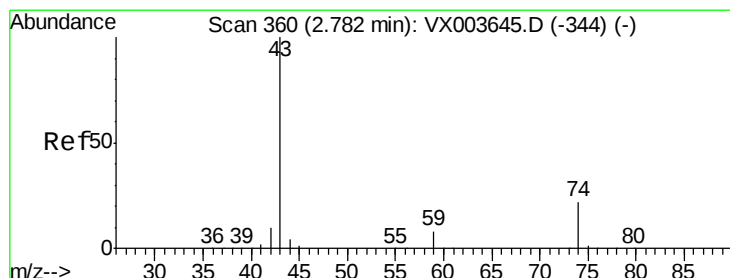
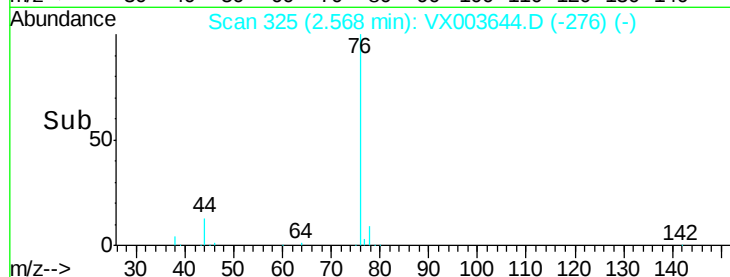
30000

20000

10000

0

Time-->



#18

Methyl Acetate

Concen: 27.700 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX003644.D

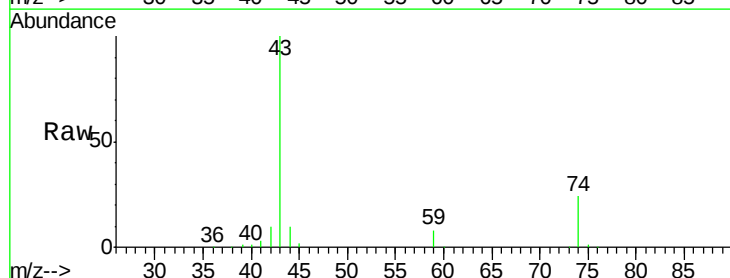
Acq: 24 Jul 2018 17:08

Tgt Ion: 43 Resp: 48886

Ion Ratio Lower Upper

43 100

74 22.8 17.8 26.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

30000

25000

20000

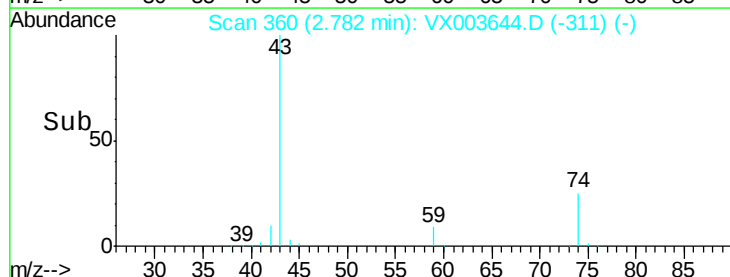
15000

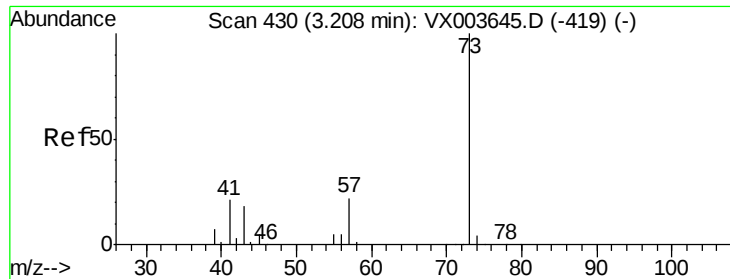
10000

5000

0

Time-->





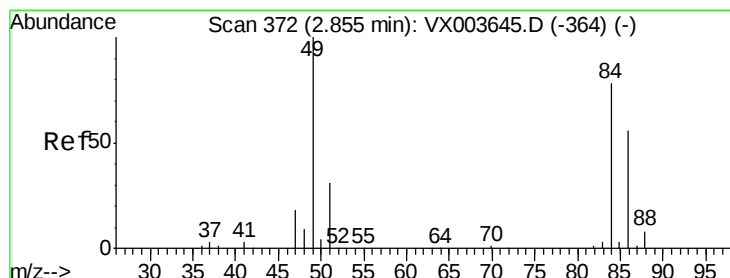
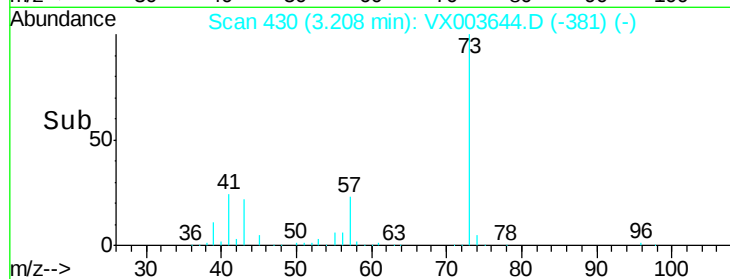
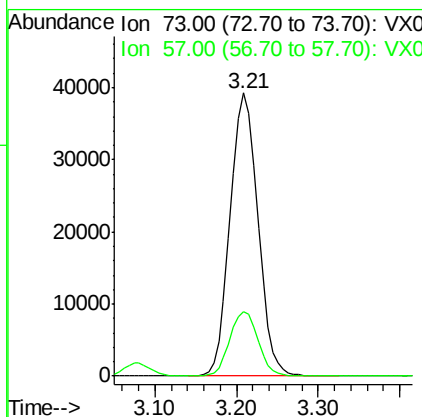
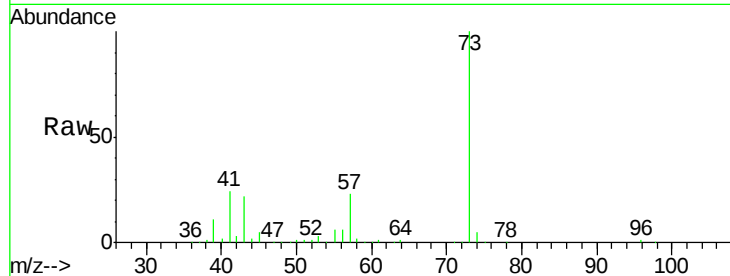
#19
Methyl tert-butyl Ether
Concen: 22.973 ug/l
RT: 3.21 min Scan# 430
Delta R.T. 0.00 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion: 73 Resp: 92457
Ion Ratio Lower Upper
73 100
57 22.7 17.4 26.2

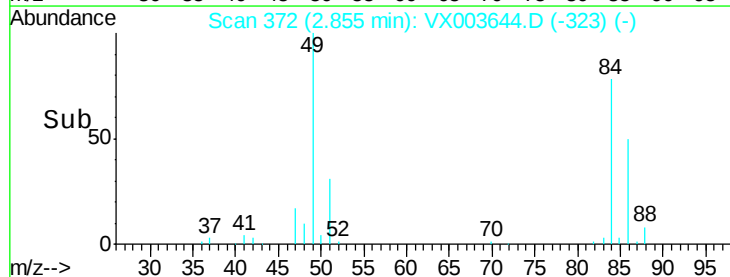
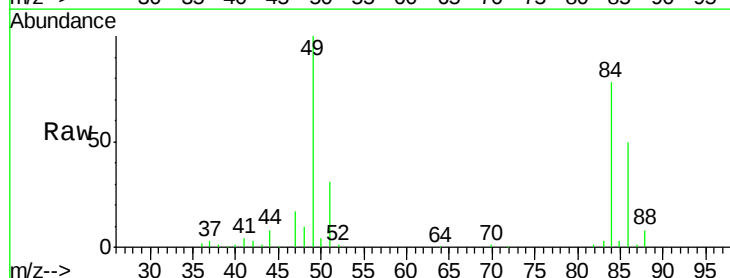
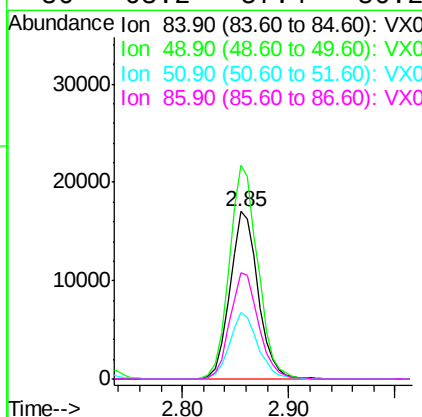
Manual Integrations
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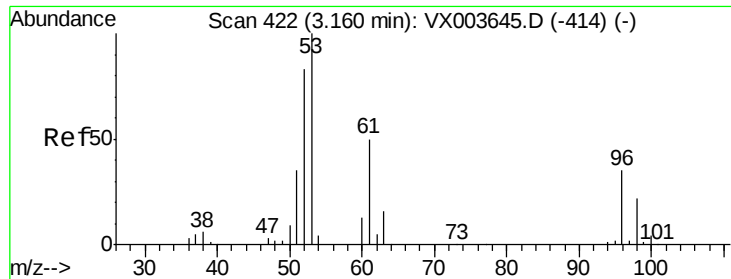
MMDadoda
8/2/2018 11:54:16 AM



#20
Methylene Chloride
Concen: 21.045 ug/l
RT: 2.85 min Scan# 372
Delta R.T. 0.00 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Tgt Ion: 84 Resp: 31667
Ion Ratio Lower Upper
84 100
49 127.7 102.3 153.5
51 39.9 31.8 47.8
86 63.2 57.4 86.2





#21

trans-1,2-Dichloroethene

Concen: 20.942 ug/l

RT: 3.17 min Scan# 423

Delta R.T. 0.01 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

Instrument :

MSVOA_X

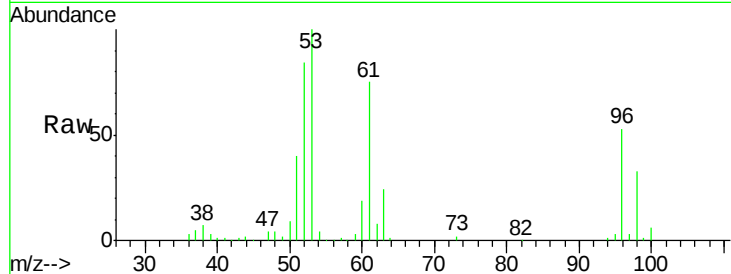
ClientSampled :

VSTDIC020

Tot Ion:	96	Resp:	28285
Ion	Ratio	Lower	Upper
96	100		
61	141.9	115.0	172.4
98	62.6	49.7	74.5

Manual Integrations
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8/2/2018 11:54:16 AM

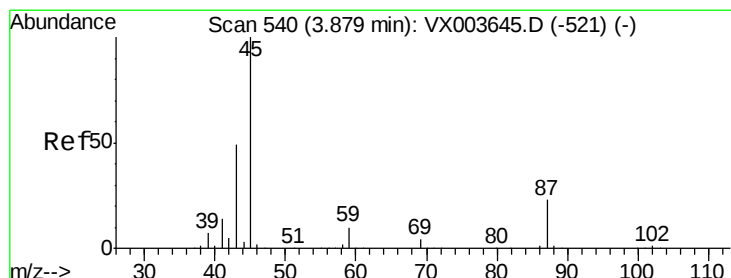
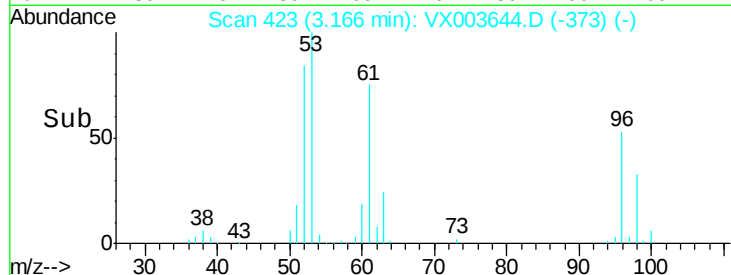
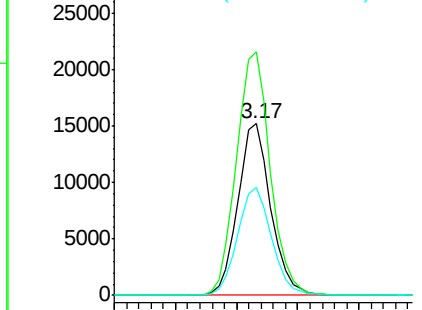


Abundance

Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#22

Diisopropyl ether

Concen: 25.103 ug/l

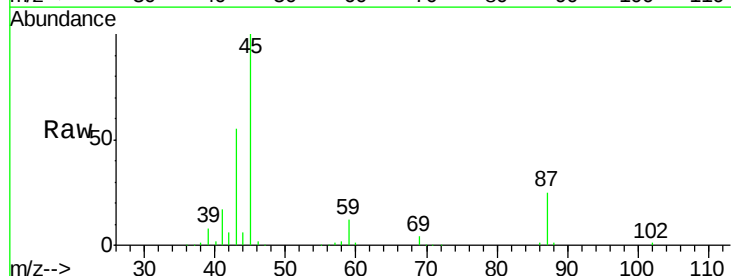
RT: 3.88 min Scan# 540

Delta R.T. 0.00 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

Tgt Ion:	45	Resp:	104481
Ion	Ratio	Lower	Upper
45	100		
43	54.7	39.0	58.4
87	25.5	18.4	27.6
59	11.9	7.8	11.8#



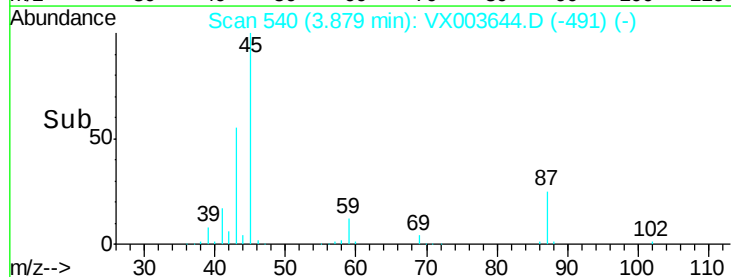
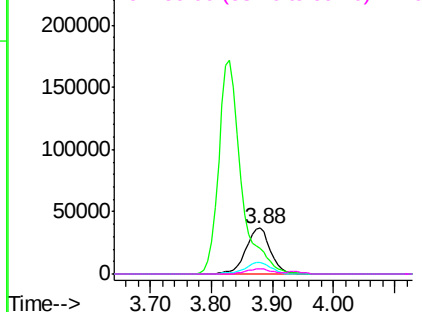
Abundance

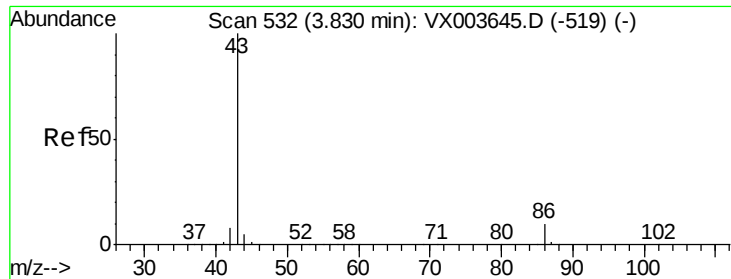
Ion 45.00 (44.70 to 45.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

Ion 59.00 (58.70 to 59.70): VX0





#23

Vinyl Acetate

Concen: 127.917 ug/l

RT: 3.83 min Scan# 532

Delta R.T. -0.00 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 442602

Ion Ratio Lower Upper

43 100

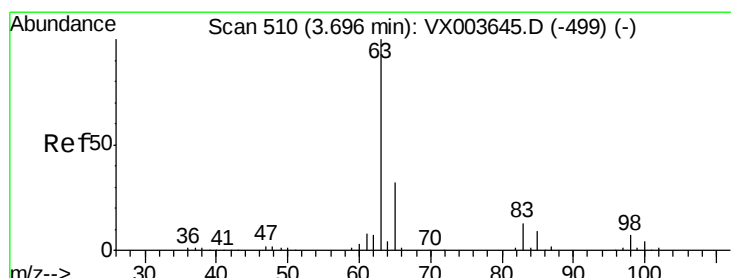
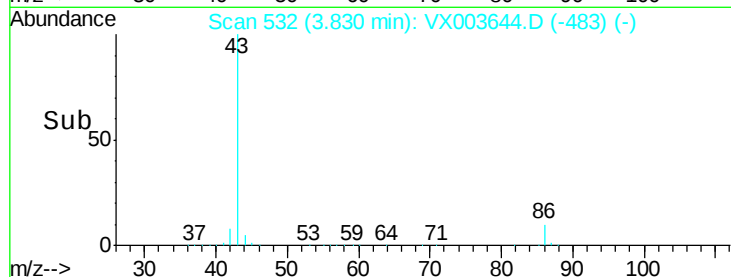
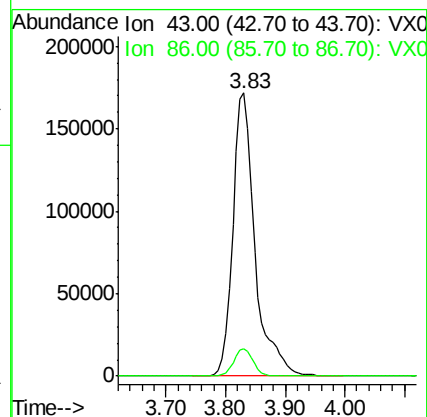
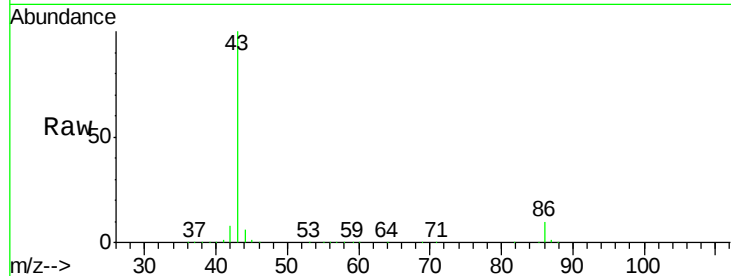
86 9.7 7.7 11.5

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#24

1,1-Dichloroethane

Concen: 23.486 ug/l

RT: 3.70 min Scan# 510

Delta R.T. 0.00 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

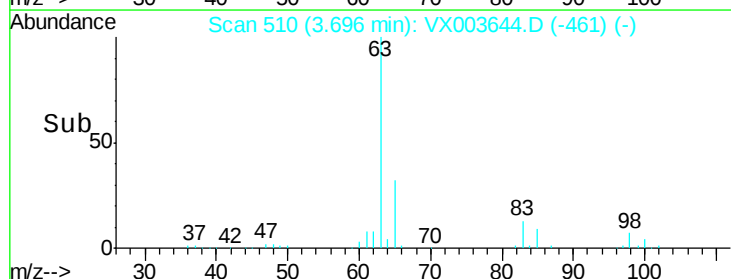
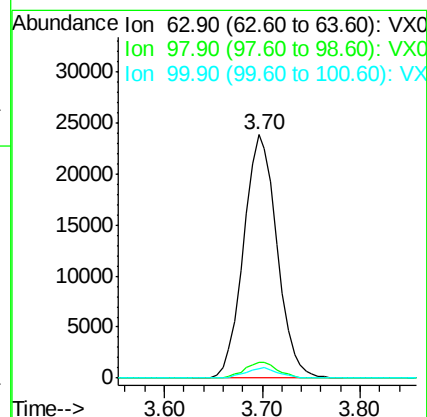
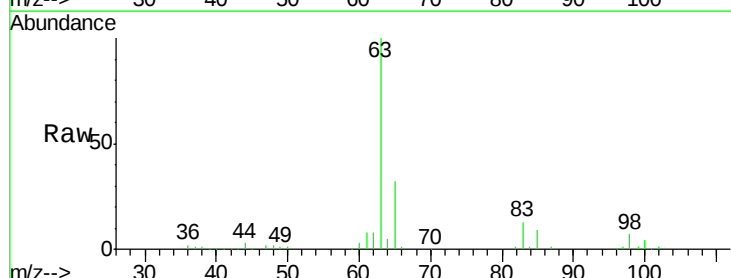
Tgt Ion: 63 Resp: 56464

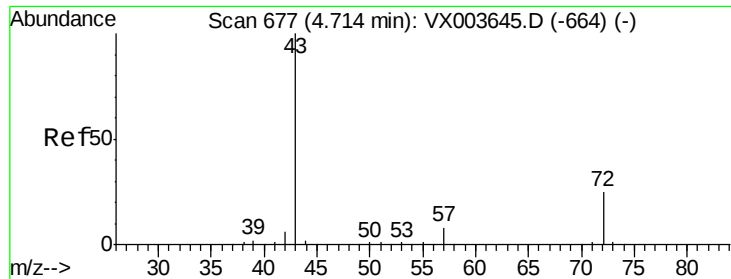
Ion Ratio Lower Upper

63 100

98 6.6 3.3 9.8

100 4.0 2.1 6.3





#25

2-Butanone

Concen: 132.523 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.00 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 123836

Ion Ratio Lower Upper

43 100

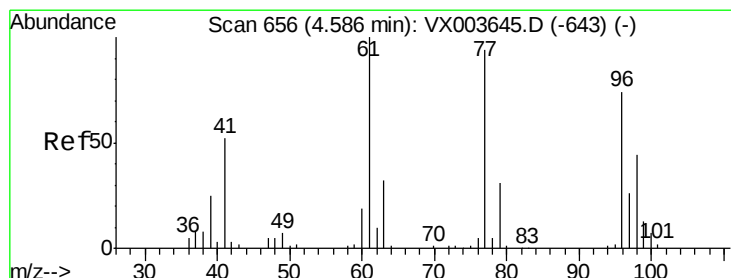
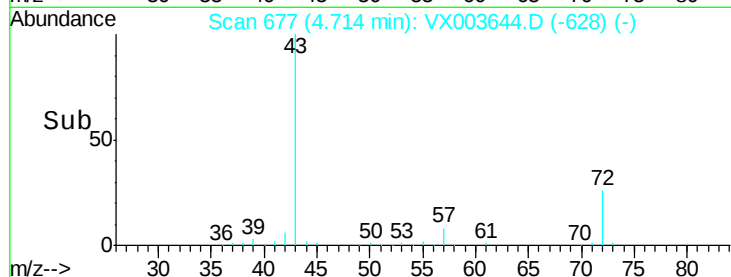
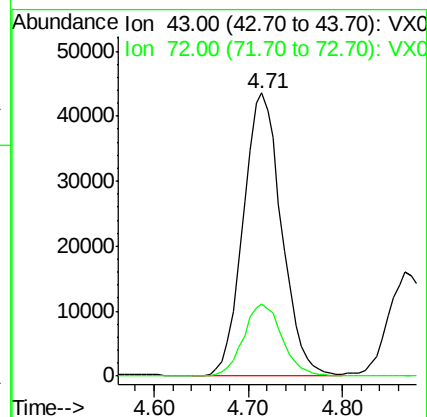
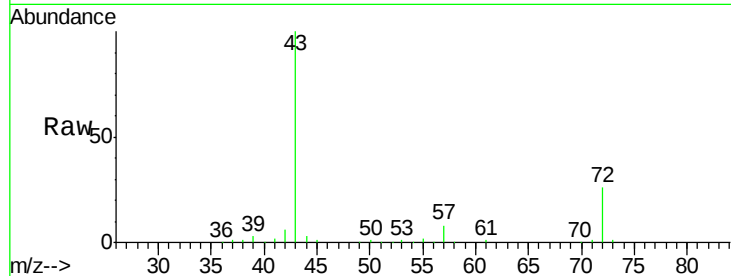
72 25.6 20.2 30.4

Manual Integrations

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MMDadoda

8/2/2018 11:54:16 AM



#26

2,2-Dichloropropane

Concen: 20.266 ug/l

RT: 4.59 min Scan# 656

Delta R.T. 0.00 min

Lab File: VX003644.D

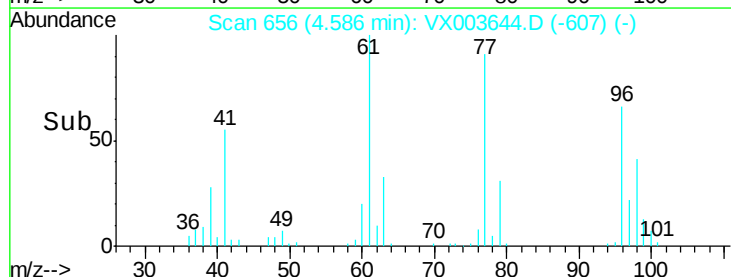
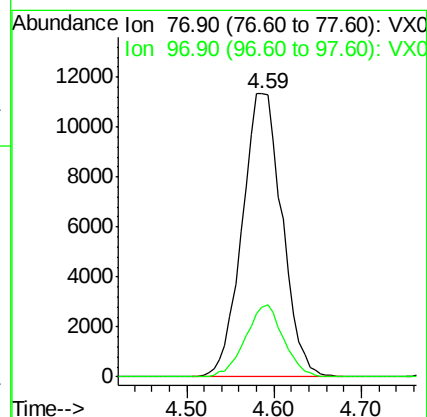
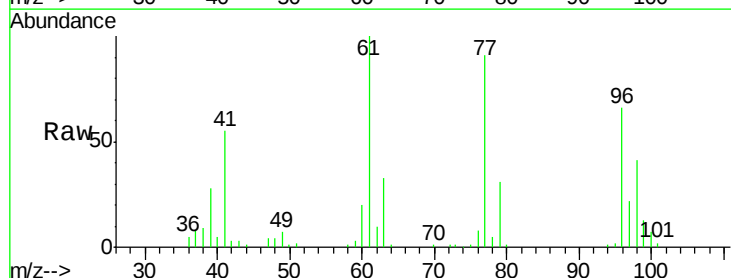
Acq: 24 Jul 2018 17:08

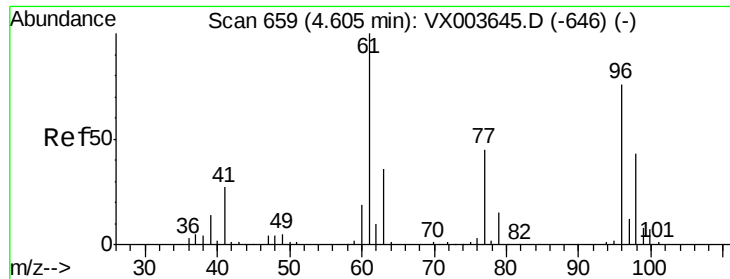
Tgt Ion: 77 Resp: 36008

Ion Ratio Lower Upper

77 100

97 24.3 12.0 36.0





#27

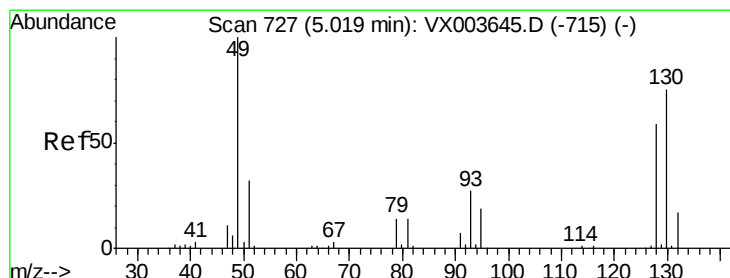
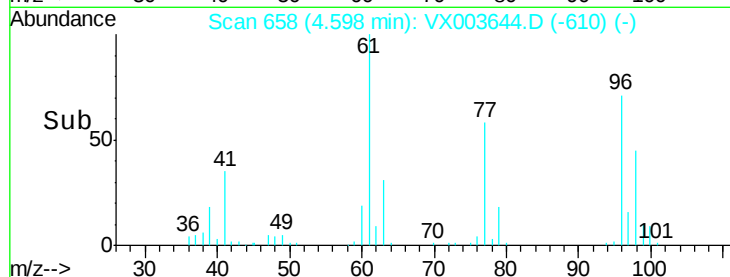
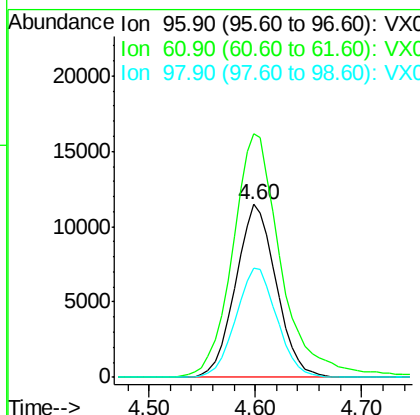
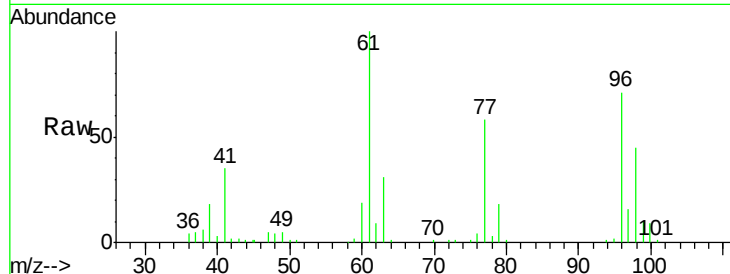
cis-1,2-Dichloroethene
Concen: 20.524 ug/l
RT: 4.60 min Scan# 658
Delta R.T. -0.01 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	169.0	0.0	313.6	
98	63.8	0.0	125.6	

Manual Integrations
APPROVED

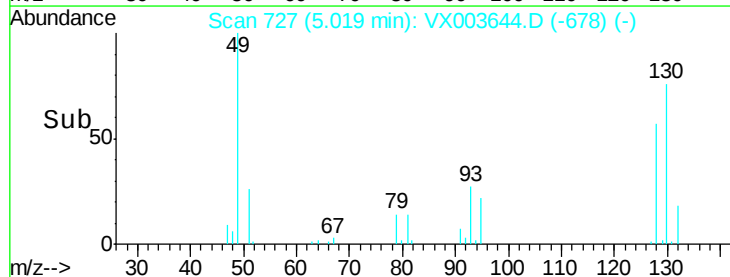
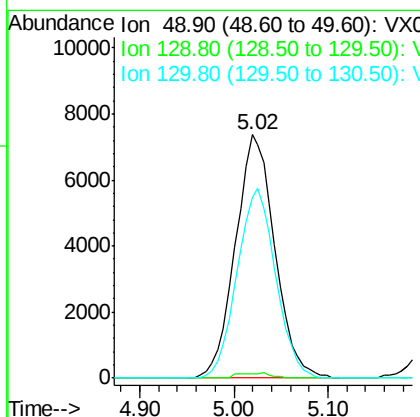
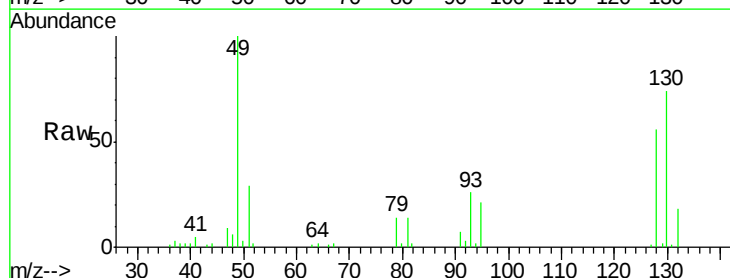
MMDadoda
8/2/2018 11:54:16 AM

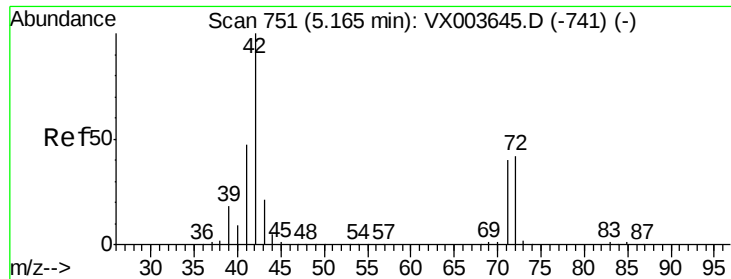


#28

Bromochloromethane
Concen: 20.942 ug/l
RT: 5.02 min Scan# 727
Delta R.T. 0.00 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.7	0.0	4.2	
130	76.2	61.0	91.6	





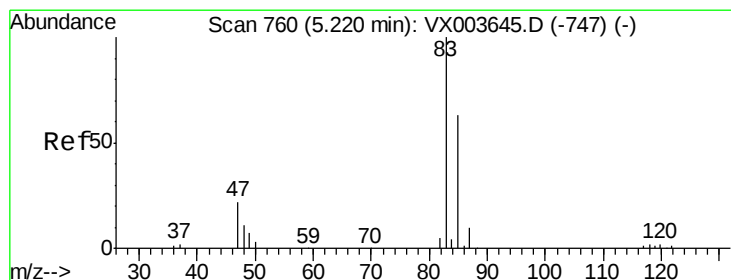
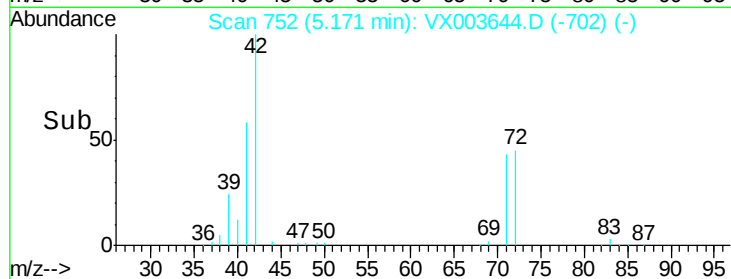
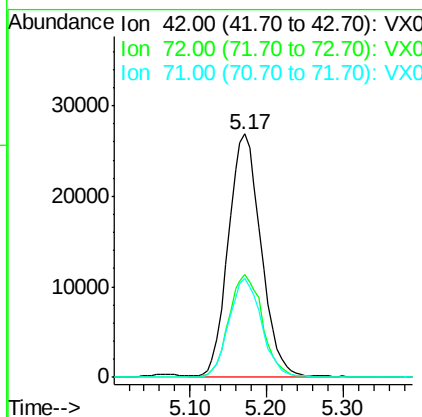
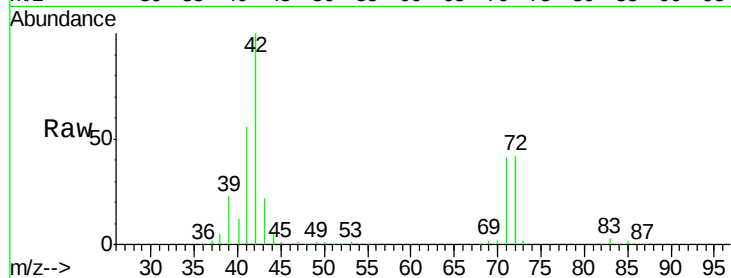
#29
Tetrahydrofuran
Concen: 128.136 ug/l
RT: 5.17 min Scan# 752
Delta R.T. 0.01 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.5	33.4	50.0
71	40.6	31.0	46.6

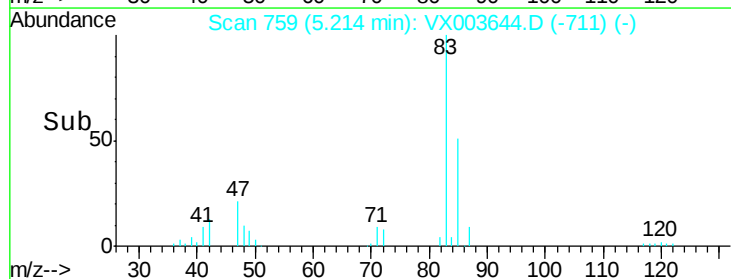
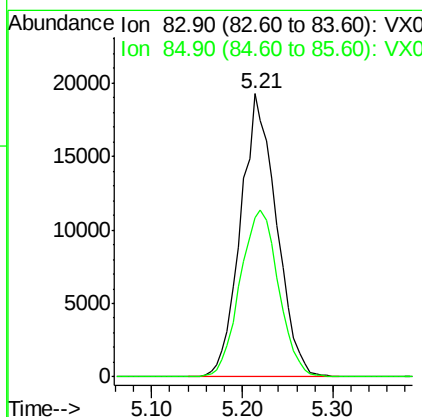
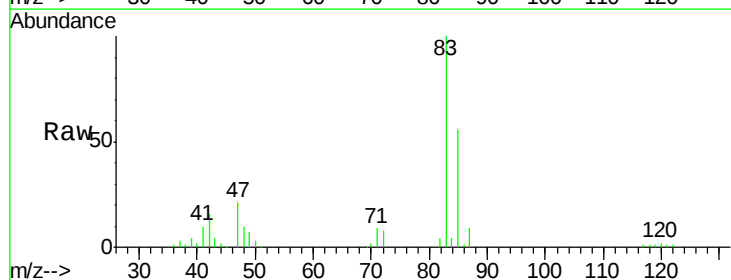
Manual Integrations
APPROVED

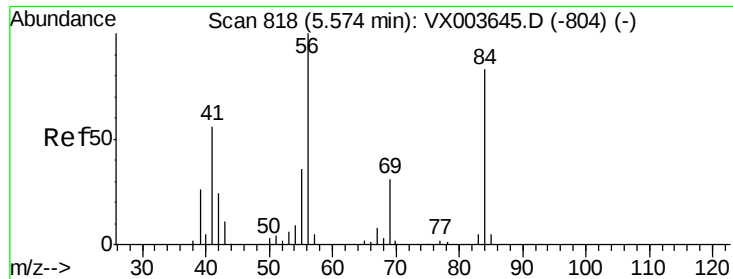
MMDadoda
8/2/2018 11:54:16 AM



#30
Chloroform
Concen: 22.730 ug/l
RT: 5.21 min Scan# 759
Delta R.T. -0.01 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Tgt Ion	Ratio	Lower	Upper
83	100		
85	56.3	50.2	75.4





#31

Cyclohexane

Concen: 21.780 ug/l

RT: 5.57 min Scan# 818

Delta R.T. 0.00 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

Instrument :

MSVOA_X

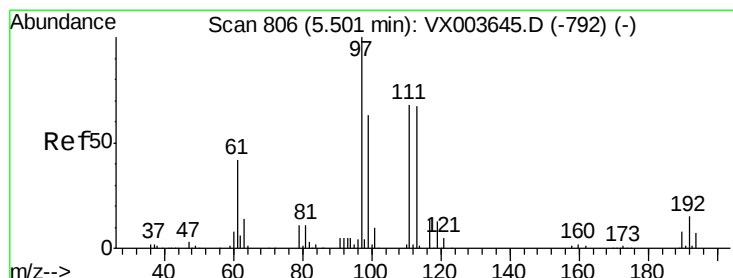
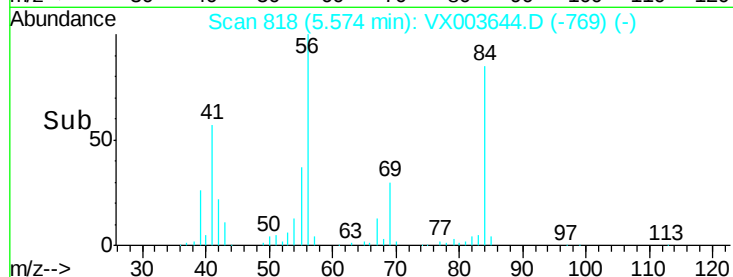
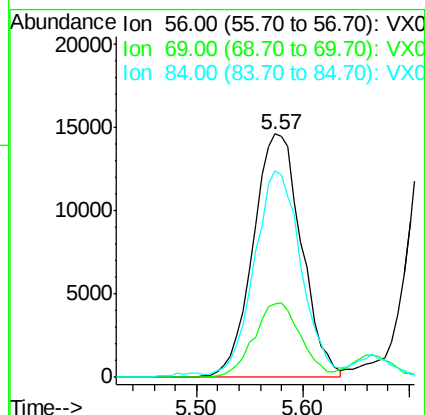
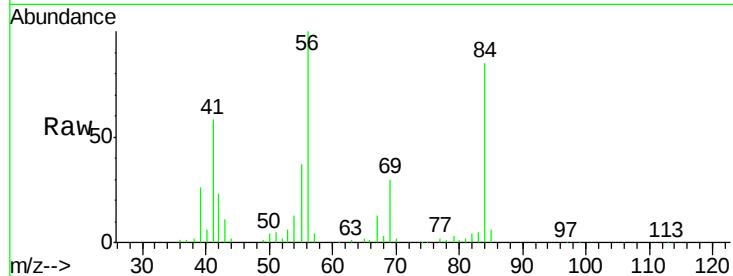
ClientSampleId :

VSTDIC020

Tot Ion:	56	Resp:	46266
Ion	Ratio	Lower	Upper
56	100		
69	29.9	25.0	37.6
84	83.2	66.5	99.7

Manual Integrations
APPROVED

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#32

1,1,1-Trichloroethane

Concen: 21.538 ug/l

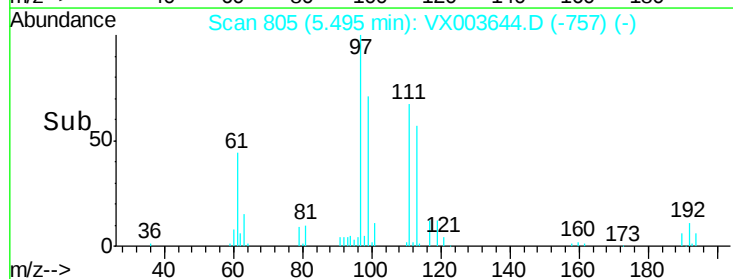
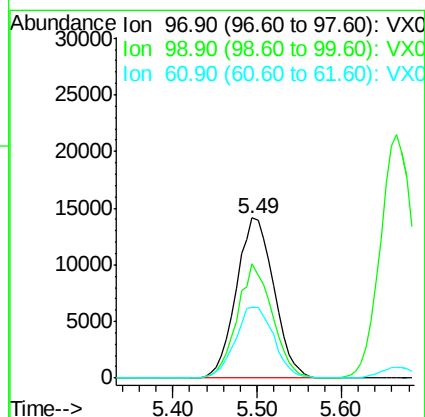
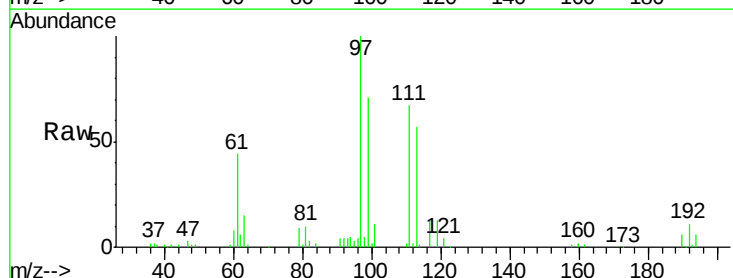
RT: 5.49 min Scan# 805

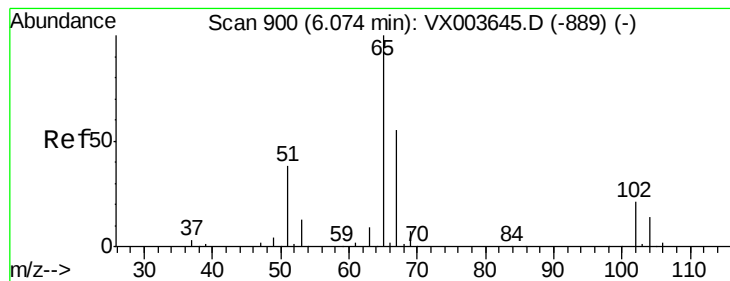
Delta R.T. -0.01 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

Tgt Ion:	97	Resp:	42854
Ion	Ratio	Lower	Upper
97	100		
99	66.4	50.4	75.6
61	45.6	34.5	51.7





#33

1,2-Dichloroethane-d4

Concen: 24.568 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion: 65 Resp: 35542

Ion Ratio Lower Upper

65 100

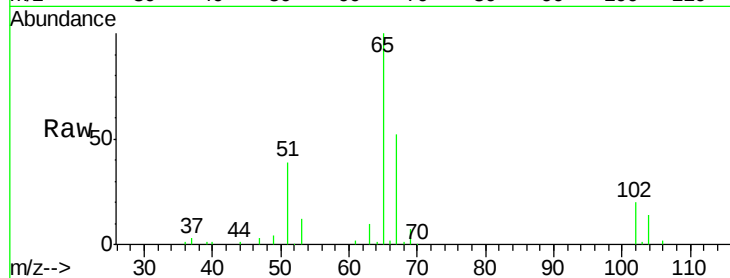
67 53.2 0.0 107.8

Manual Integrations

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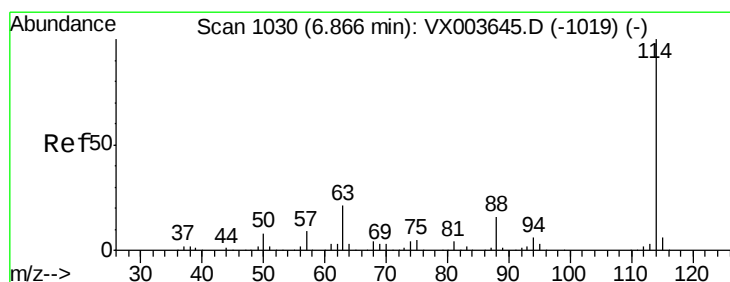
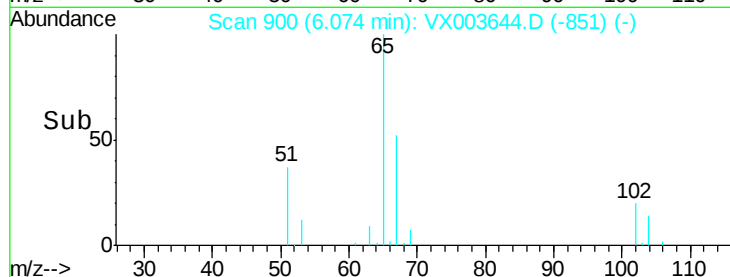
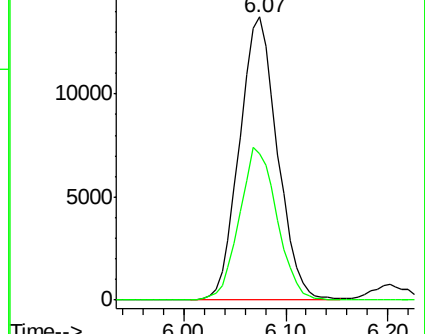
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Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

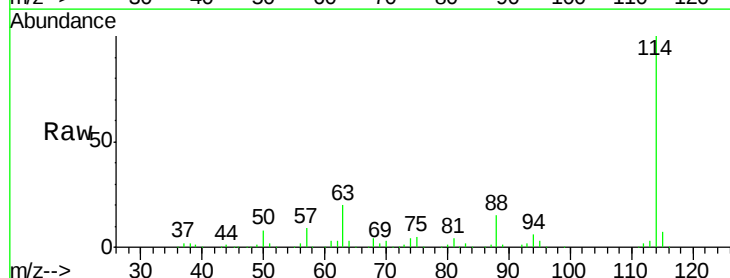
Tgt Ion: 114 Resp: 168642

Ion Ratio Lower Upper

114 100

63 20.2 0.0 41.0

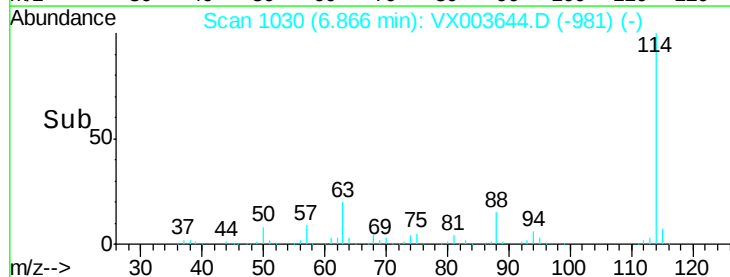
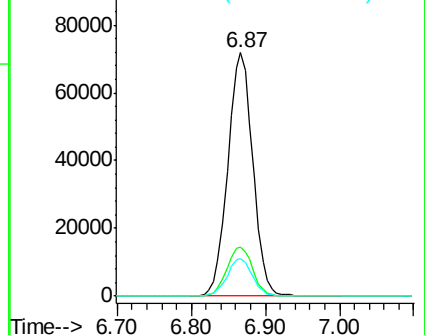
88 15.5 0.0 31.8

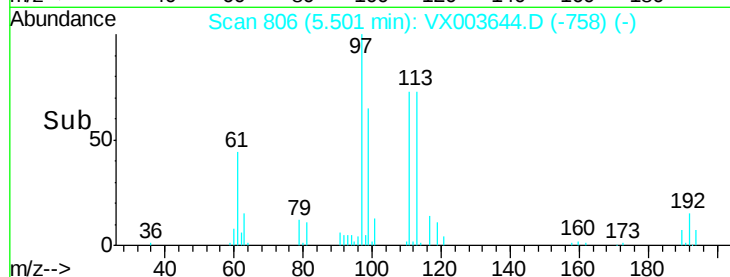
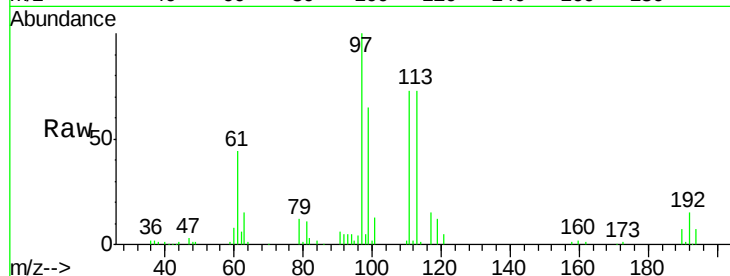
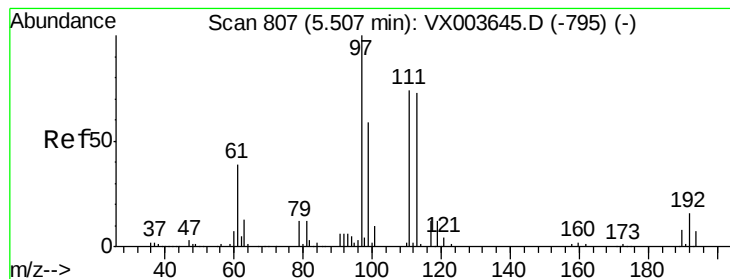


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 21.877 ug/l

RT: 5.50 min Scan# 806

Delta R.T. -0.01 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

Tot Ion:	113	Resp:	28747
Ion	Ratio	Lower	Upper
113	100		
111	104.9	81.2	121.8
192	21.6	18.2	27.4

Instrument :

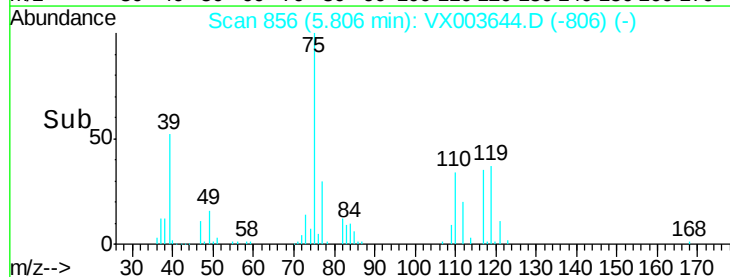
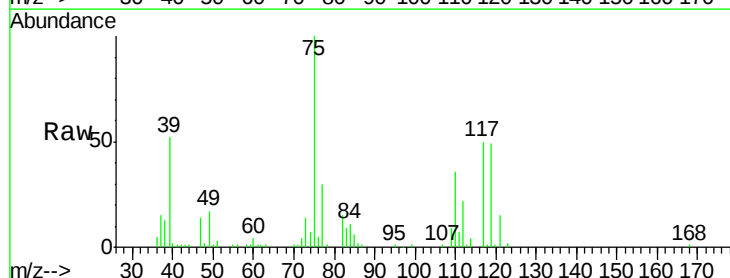
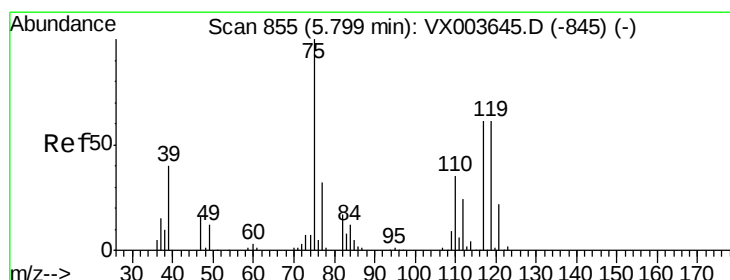
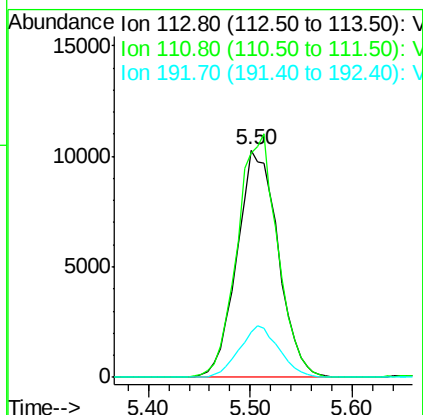
MSVOA_X

ClientSampled :

VSTDIC020

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 21.024 ug/l

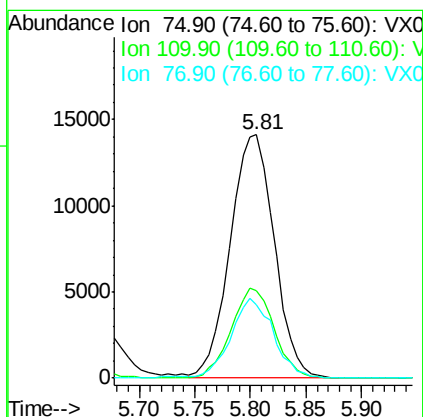
RT: 5.81 min Scan# 856

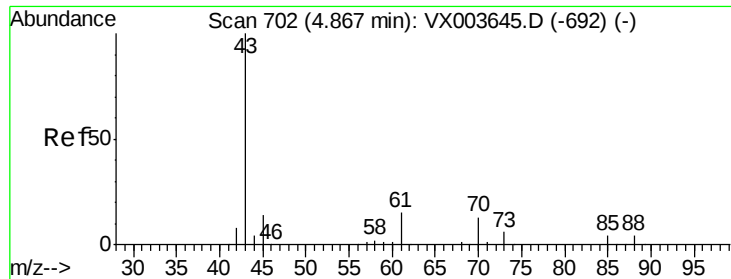
Delta R.T. 0.01 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

Tgt Ion:	75	Resp:	38894
Ion	Ratio	Lower	Upper
75	100		
110	35.8	18.1	54.1
77	31.5	25.1	37.7





#37

Ethyl Acetate

Concen: 25.653 ug/l

RT: 4.87 min Scan# 702

Delta R.T. 0.00 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

Instrument :

MSVOA_X

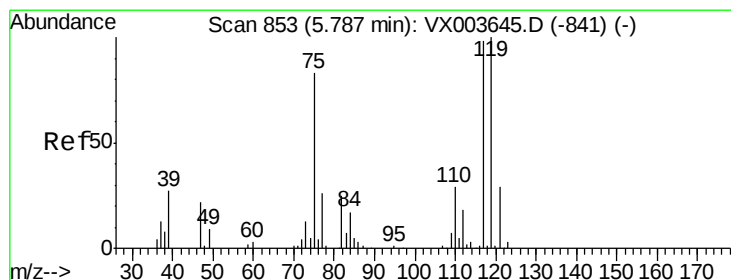
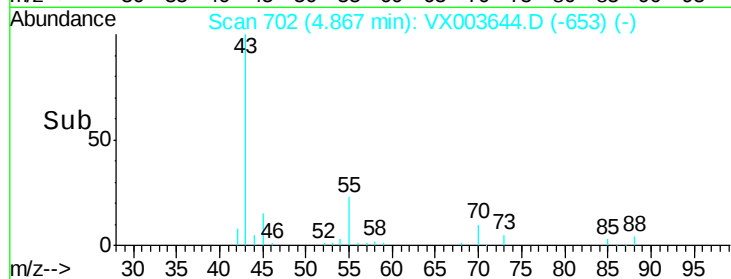
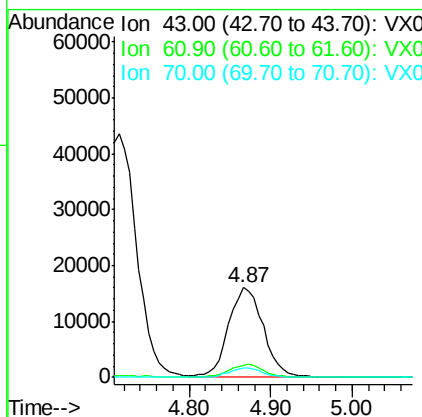
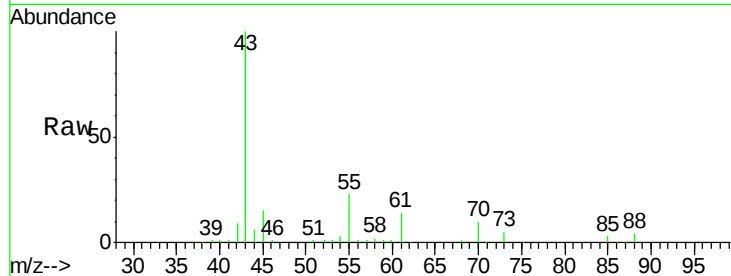
ClientSampled :

VSTDIC020

Tot Ion:	43	Resp:	46932
Ion	Ratio	Lower	Upper
43	100		
61	14.5	11.9	17.9
70	10.0	8.6	12.8

Manual Integrations
APPROVED

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#38

Carbon Tetrachloride

Concen: 21.051 ug/l

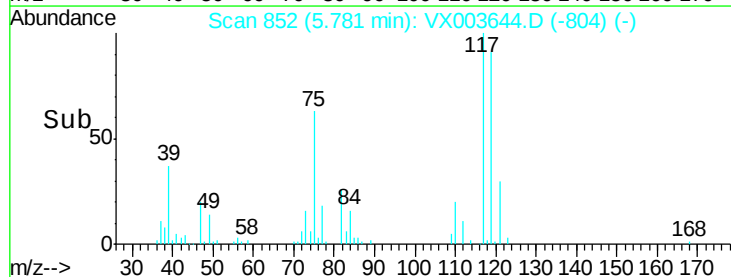
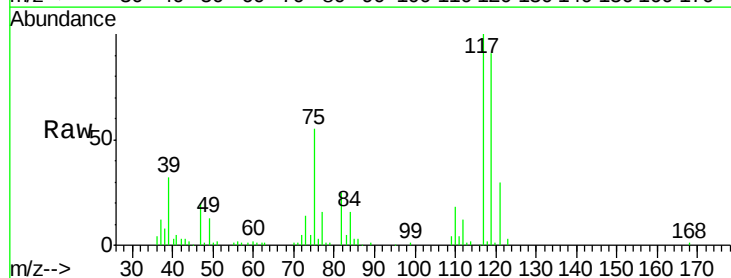
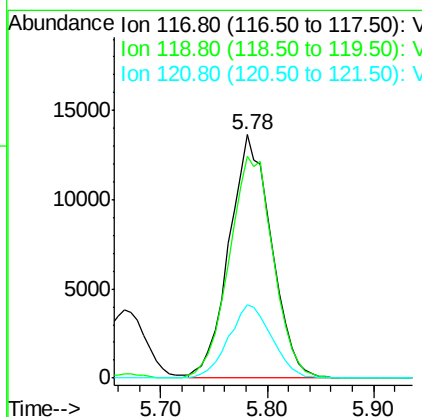
RT: 5.78 min Scan# 852

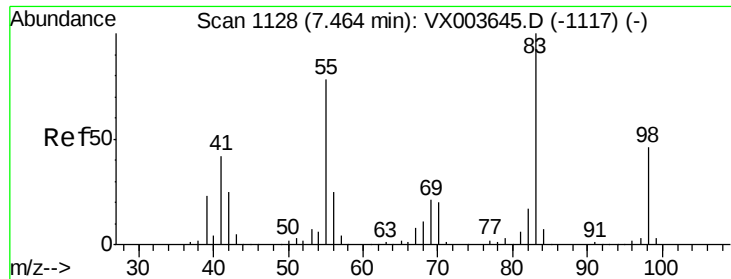
Delta R.T. -0.01 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

Tgt Ion:	117	Resp:	37986
Ion	Ratio	Lower	Upper
117	100		
119	91.4	81.0	121.4
121	30.2	23.7	35.5





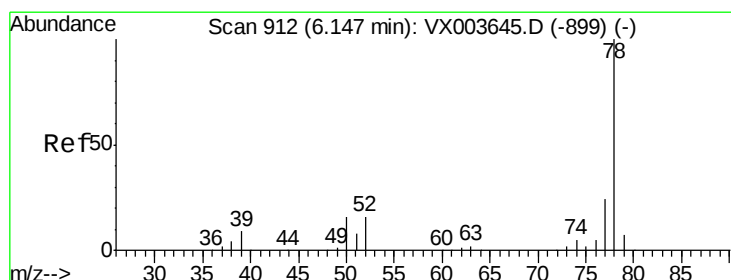
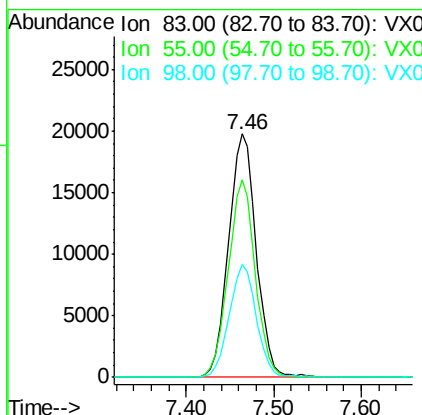
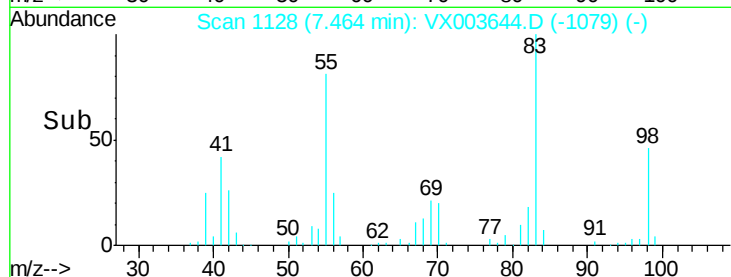
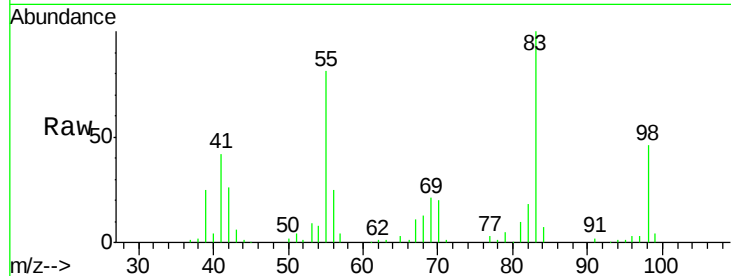
#39
Methvlcvclohexane
Concen: 19.899 ug/l
RT: 7.46 min Scan# 1128
Delta R.T. 0.00 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Instrument :
MSVOA_X
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
83	100		
55	81.4	62.6	93.8
98	46.4	36.6	55.0

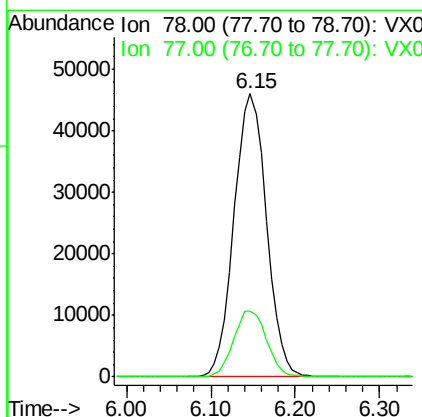
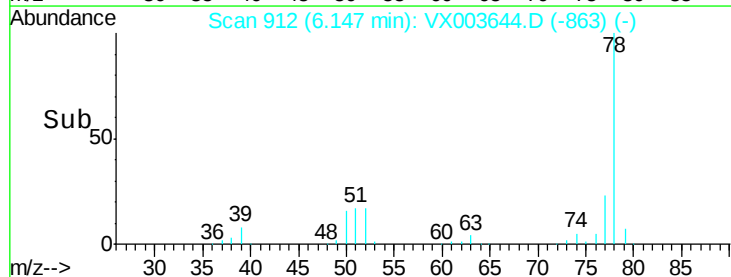
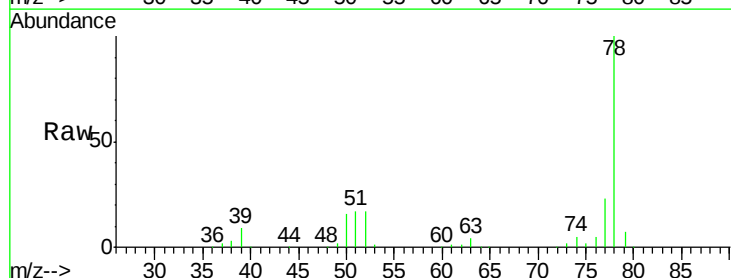
Manual Integrations
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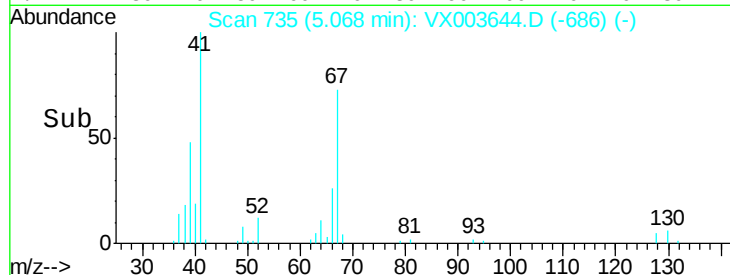
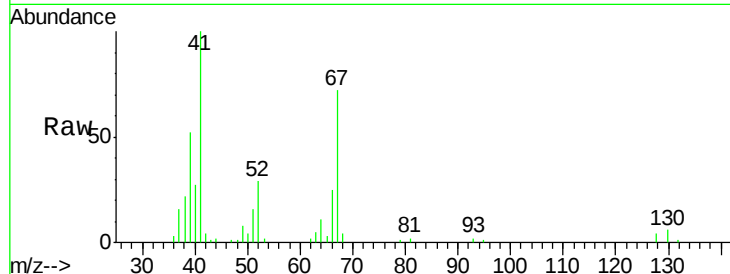
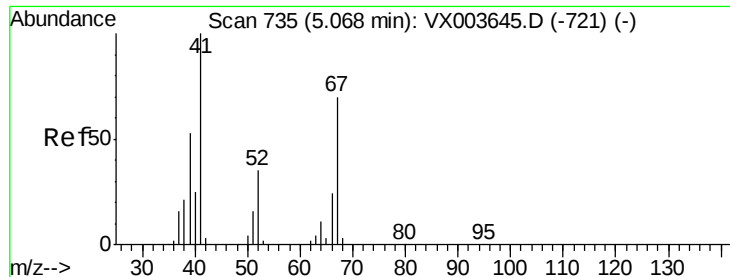
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#40
Benzene
Concen: 21.423 ug/l
RT: 6.15 min Scan# 912
Delta R.T. 0.00 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

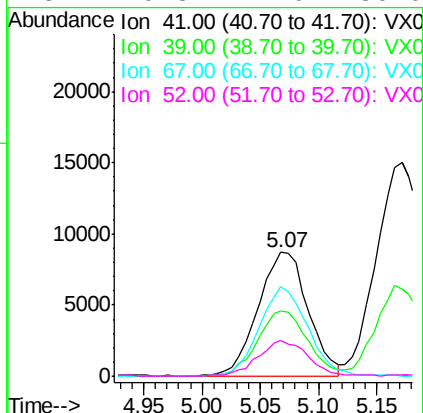
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.0	28.6





#41
Methacrylonitrile
Concen: 24.233 ug/l
RT: 5.07 min Scan# 735
Delta R.T. 0.00 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

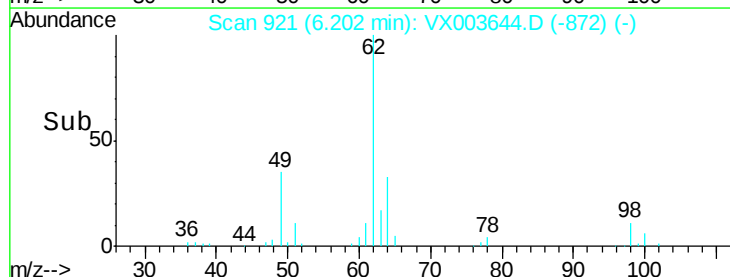
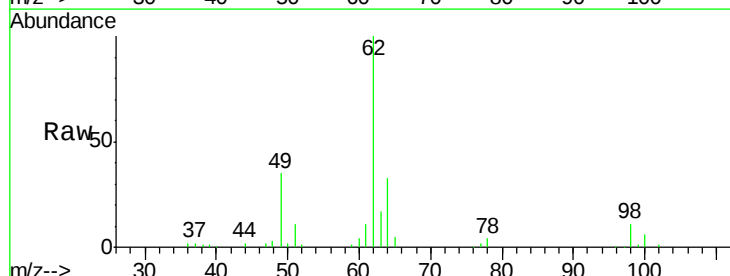
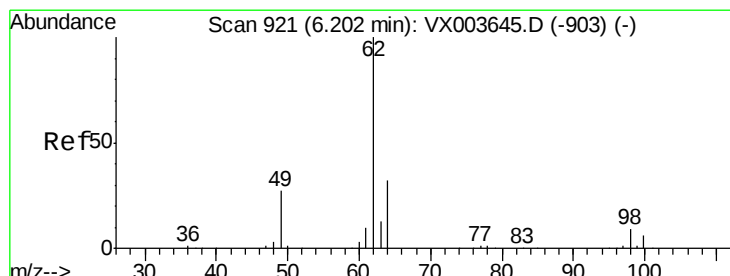
Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	52.6	42.2	63.4	
67	69.6	56.6	84.8	
52	29.3	24.0	36.0	



Instrument :
MSVOA_X
ClientSampled :
VSTDIC020

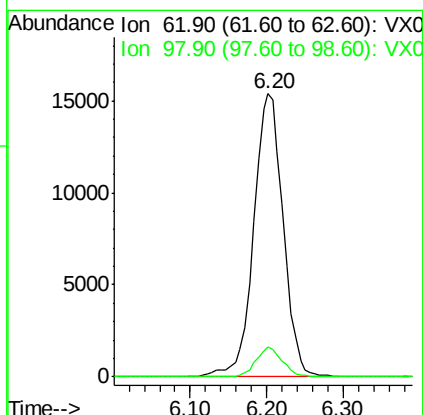
Manual Integrations
APPROVED

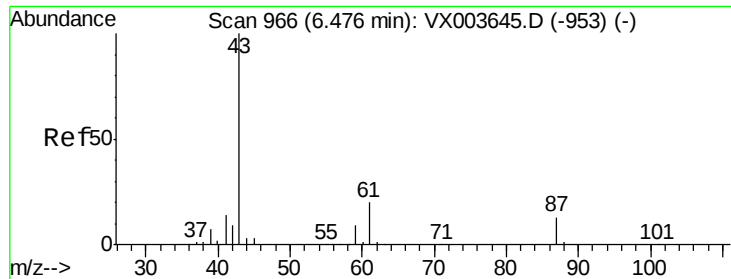
MMDadoda
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#42
1,2-Dichloroethane
Concen: 22.921 ug/l
RT: 6.20 min Scan# 921
Delta R.T. 0.00 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.4	0.0	18.4	





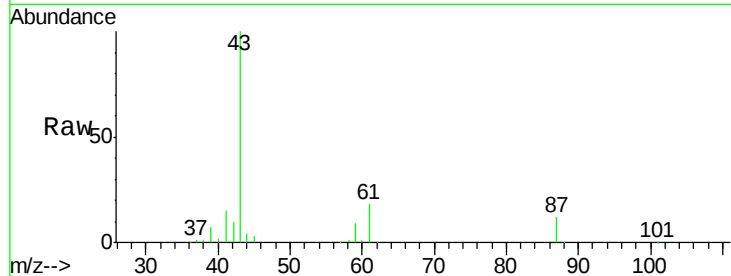
#43
Isopropyl Acetate
Concen: 23.983 ug/l
RT: 6.48 min Scan# 966
Delta R.T. -0.00 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

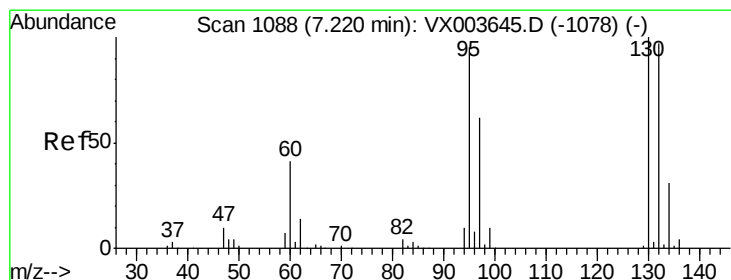
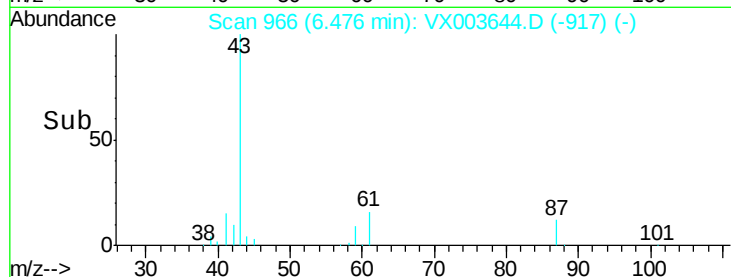
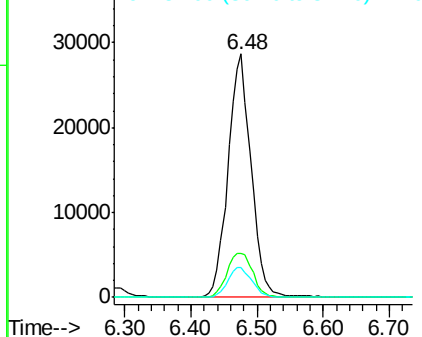
Tot Ion	Ratio	Lower	Upper
43	100		
61	20.2	15.9	23.9
87	12.7	10.1	15.1

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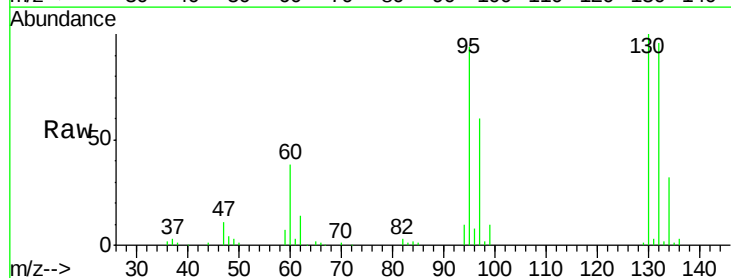


Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0

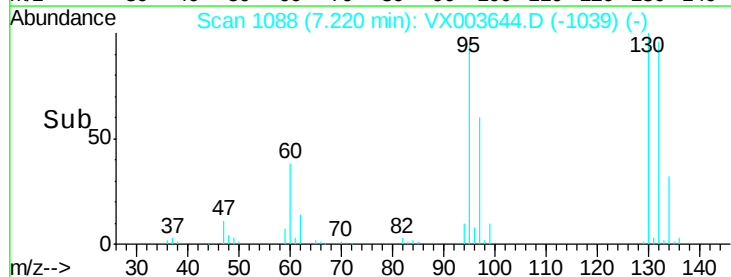
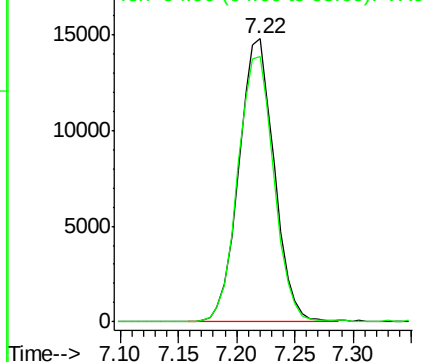


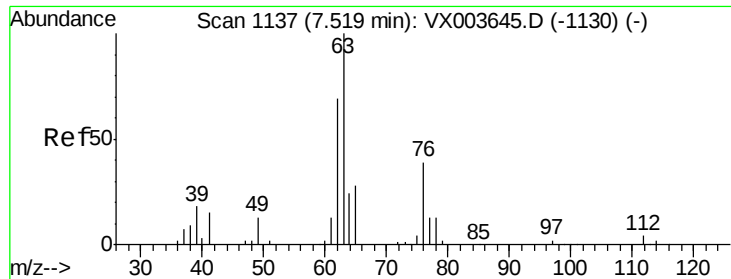
#44
Trichloroethene
Concen: 19.102 ug/l
RT: 7.22 min Scan# 1088
Delta R.T. -0.00 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Tgt Ion	Ratio	Lower	Upper
130	100		
95	93.6	0.0	190.0



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VX0





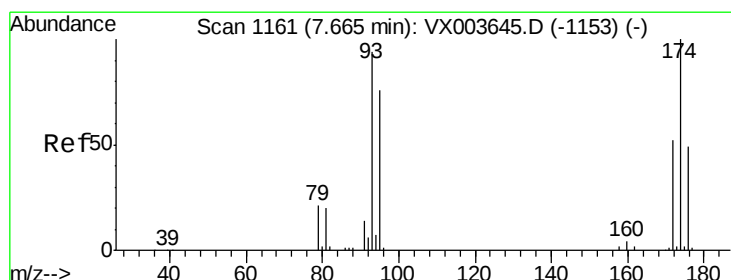
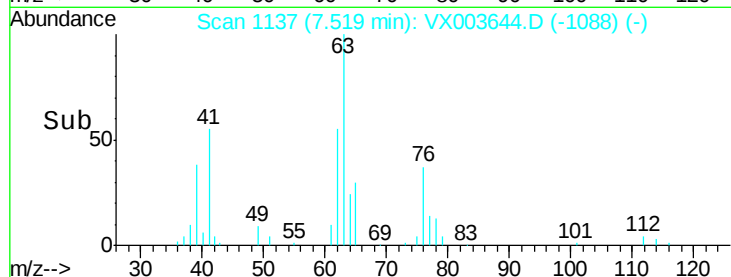
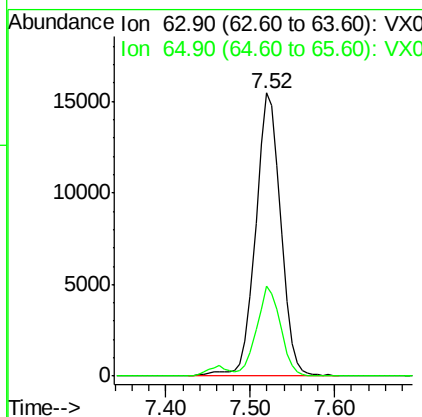
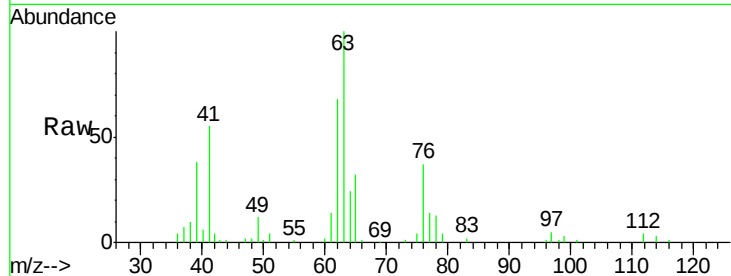
#45
 1,2-Dichloropropane
 Concen: 22.097 ug/l
 RT: 7.52 min Scan# 1137
 Delta R.T. 0.00 min
 Lab File: VX003644.D
 Acq: 24 Jul 2018 17:08

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC020

Tot Ion: 63 Resp: 31570
 Ion Ratio Lower Upper
 63 100
 65 31.8 24.0 36.0

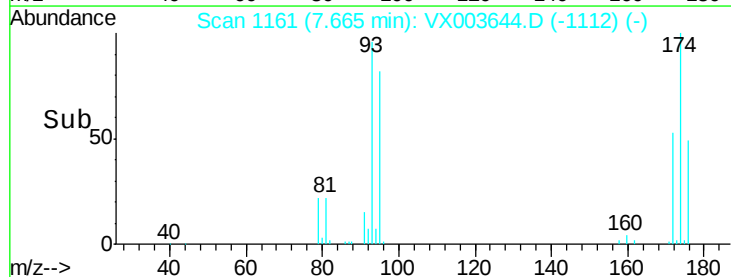
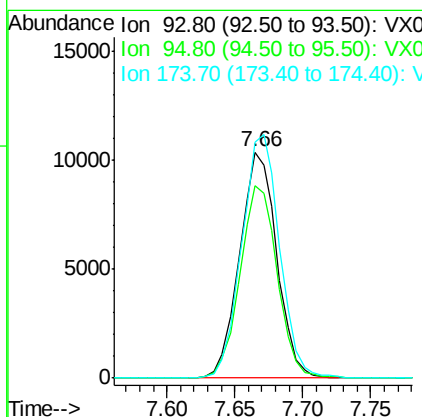
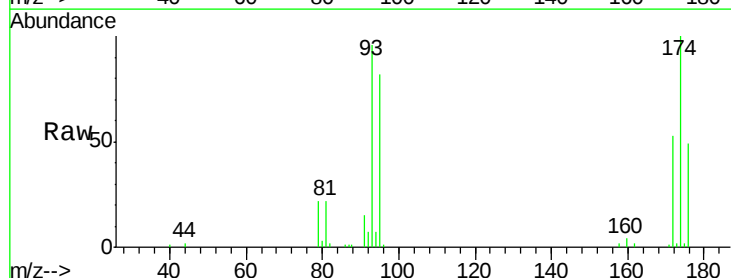
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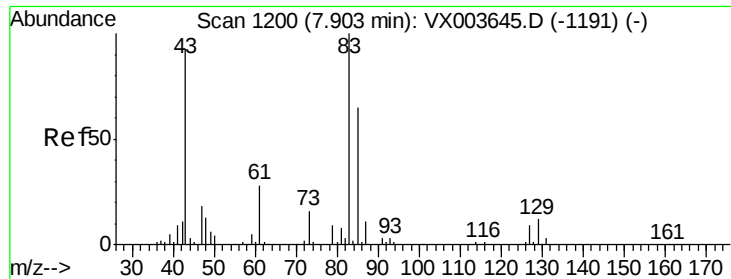
MMDadoda
 8/2/2018 11:54:16 AM



#46
 Dibromomethane
 Concen: 21.584 ug/l
 RT: 7.66 min Scan# 1161
 Delta R.T. 0.00 min
 Lab File: VX003644.D
 Acq: 24 Jul 2018 17:08

Tgt Ion: 93 Resp: 19783
 Ion Ratio Lower Upper
 93 100
 95 85.3 67.0 100.6
 174 109.9 89.6 134.4





#47

Bromodichloromethane

Concen: 21.532 ug/l

RT: 7.90 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

Instrument :

MSVOA_X

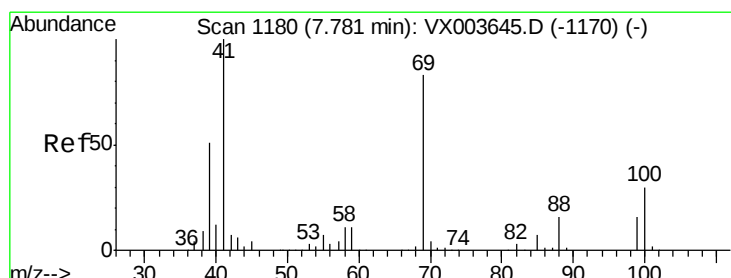
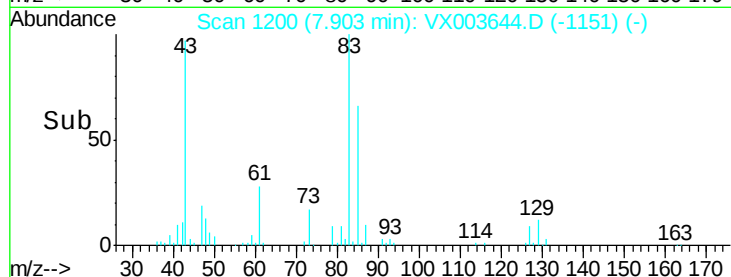
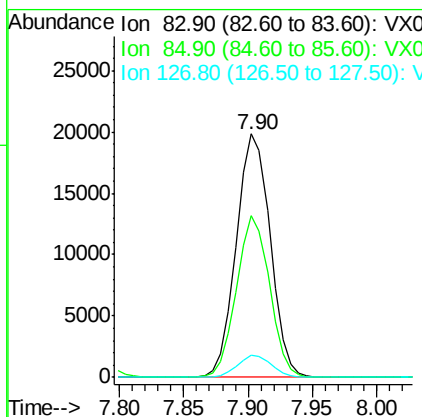
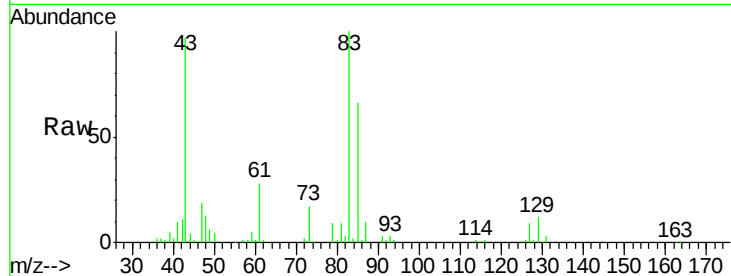
ClientSampled :

VSTDIC020

Tot Ion:	83	Resp:	36273
Ion	Ratio	Lower	Upper
83	100		
85	66.2	51.8	77.6
127	9.0	7.0	10.6

Manual Integrations
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8/2/2018 11:54:16 AM



#48

Methyl methacrylate

Concen: 24.317 ug/l

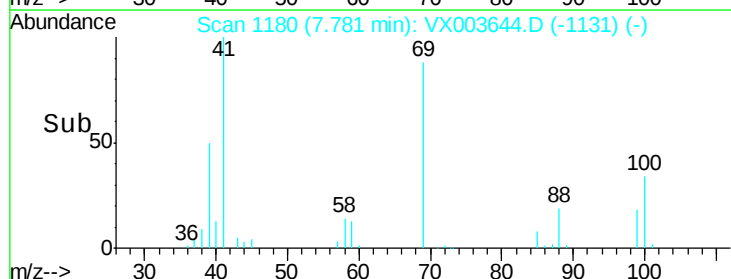
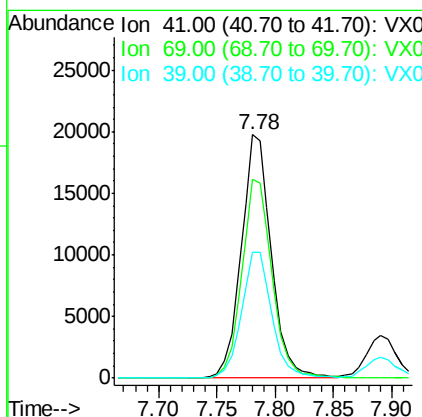
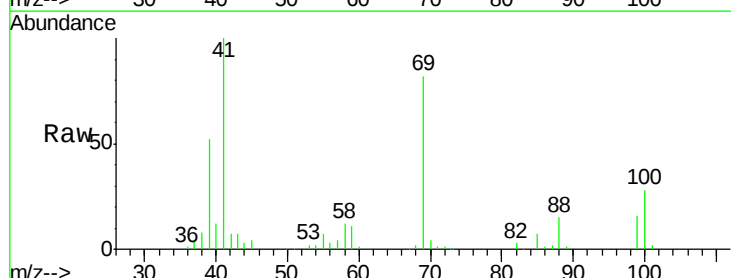
RT: 7.78 min Scan# 1180

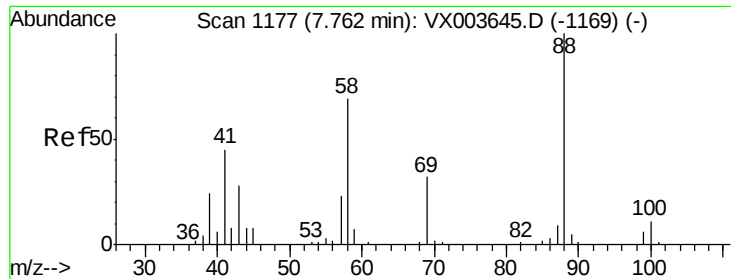
Delta R.T. 0.00 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

Tgt Ion:	41	Resp:	35509
Ion	Ratio	Lower	Upper
41	100		
69	82.2	66.9	100.3
39	52.4	41.2	61.8





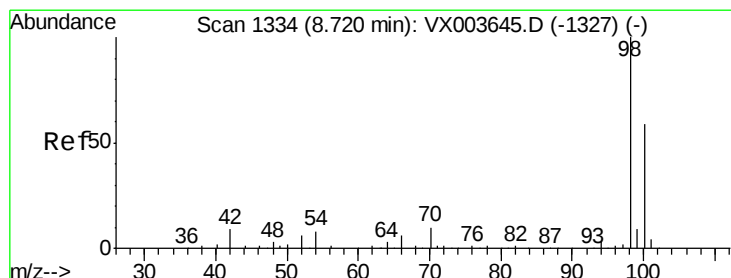
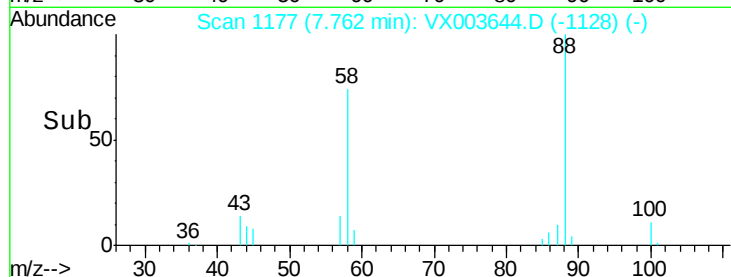
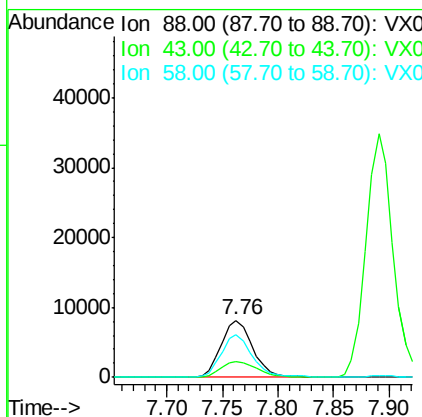
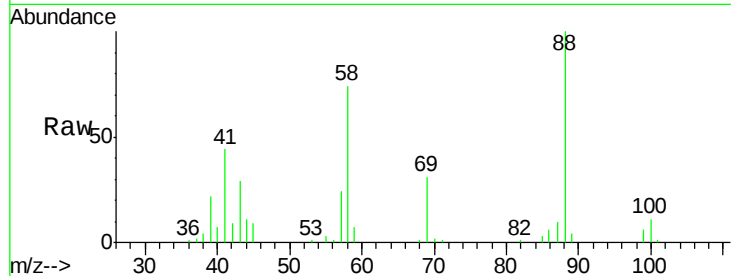
#49
1,4-Dioxane
Concen: 489.703 ug/l
RT: 7.76 min Scan# 1177
Delta R.T. 0.00 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
88	100		
43	33.8	25.8	38.6
58	73.7	58.3	87.5

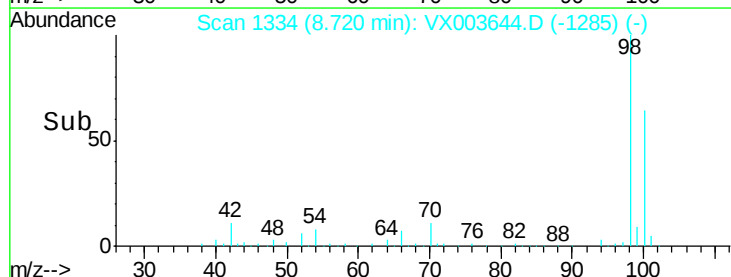
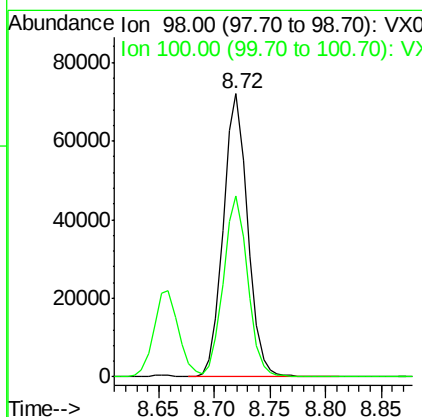
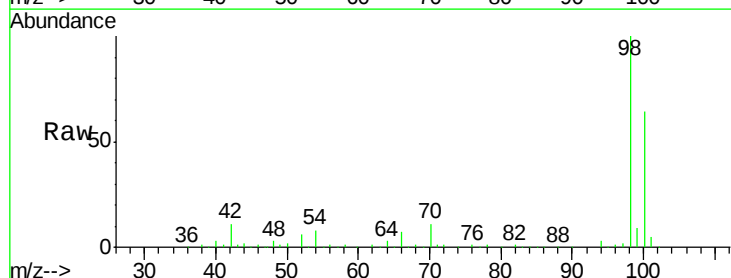
Manual Integrations
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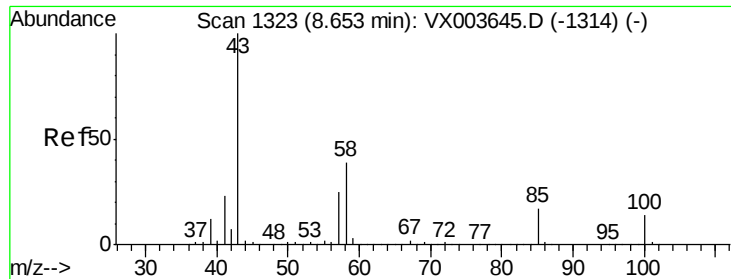
MMDadoda
8/2/2018 11:54:16 AM



#50
Toluene-d8
Concen: 22.165 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.8	50.9	76.3





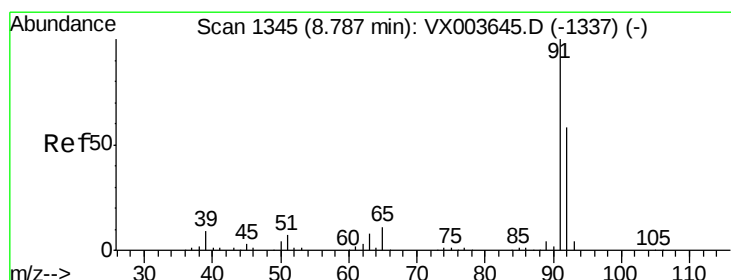
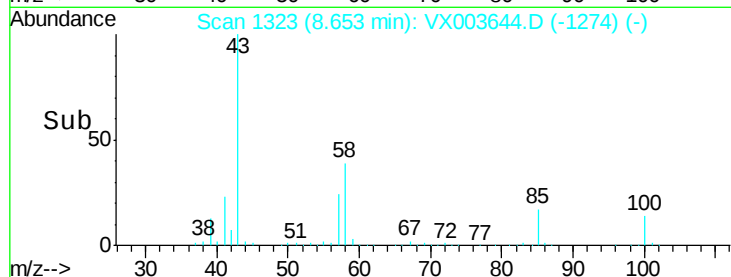
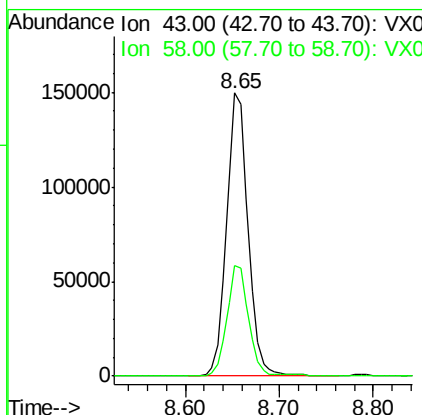
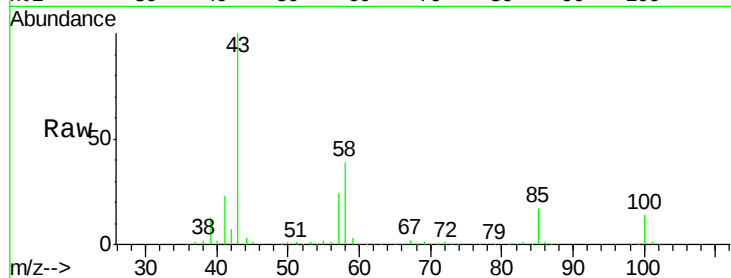
#51
4-Methyl-2-Pentanone
Concen: 128.666 ug/l
RT: 8.65 min Scan# 1323
Delta R.T. 0.00 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
58	38.7	31.5	47.3

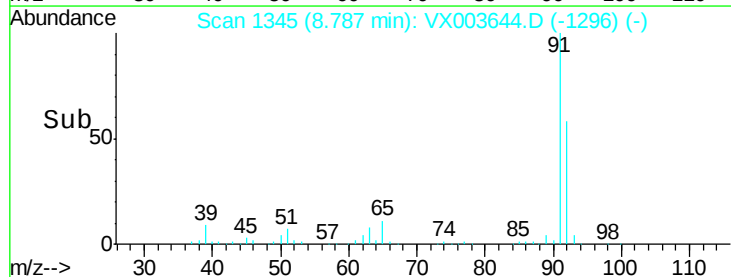
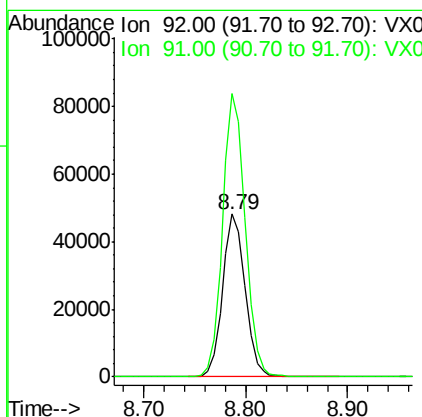
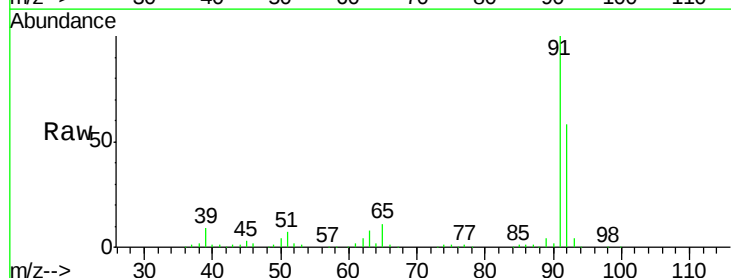
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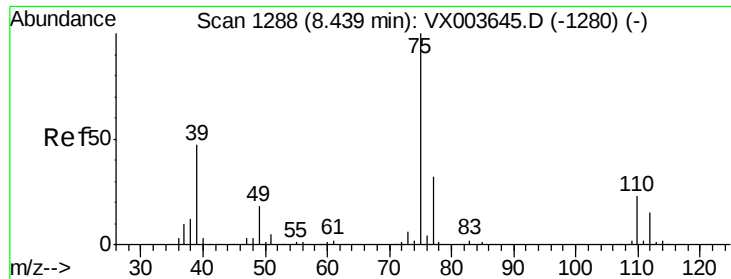
MMDadoda
8/2/2018 11:54:16 AM



#52
Toluene
Concen: 21.017 ug/l
RT: 8.79 min Scan# 1345
Delta R.T. 0.00 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Tgt Ion	Ratio	Lower	Upper
92	100		
91	174.8	139.0	208.6





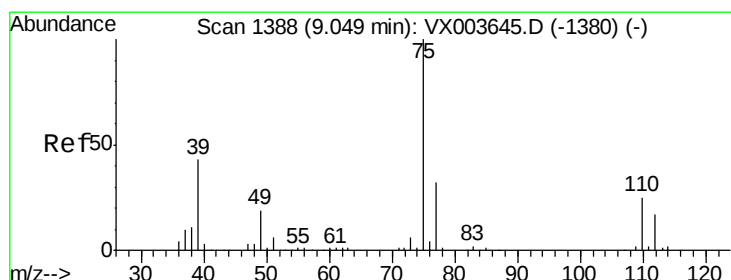
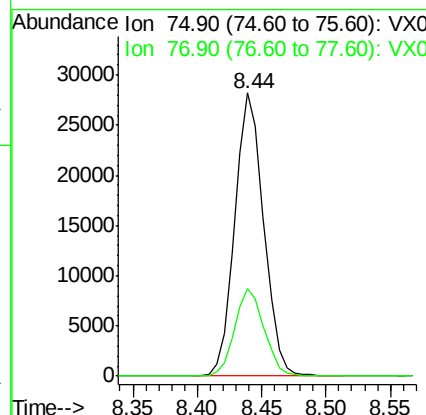
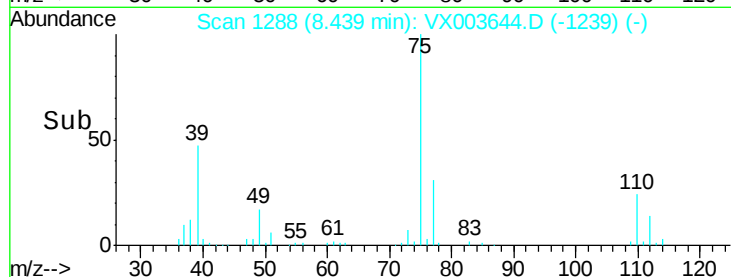
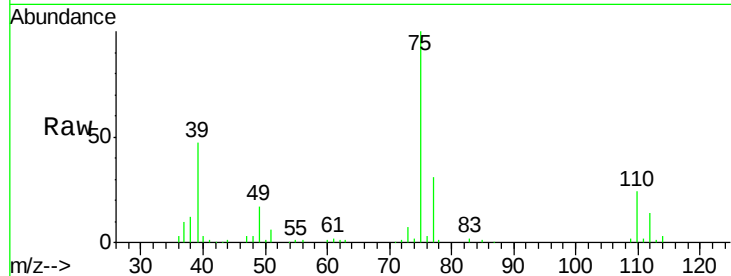
#53
t-1,3-Dichloropropene
Concen: 21.403 ug/l
RT: 8.44 min Scan# 1288
Delta R.T. 0.00 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion: 75 Resp: 44241
Ion Ratio Lower Upper
75 100
77 30.9 25.2 37.8

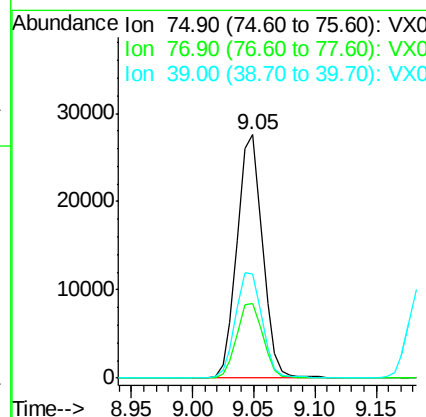
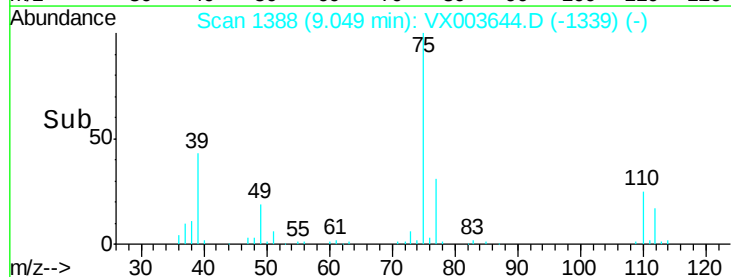
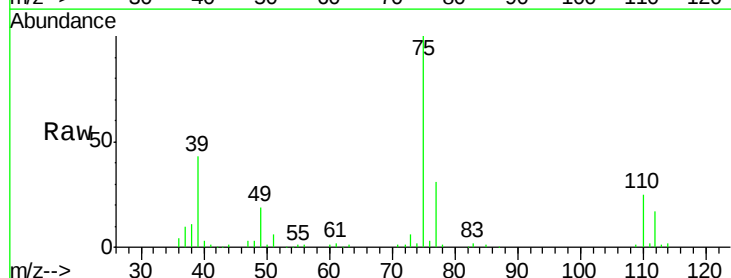
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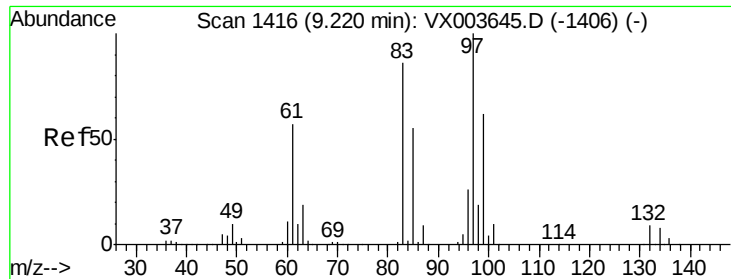
MMDadoda
8/2/2018 11:54:16 AM



#54
cis-1,3-Dichloropropene
Concen: 21.279 ug/l
RT: 9.05 min Scan# 1388
Delta R.T. 0.00 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Tgt Ion: 75 Resp: 39662
Ion Ratio Lower Upper
75 100
77 30.8 25.8 38.6
39 42.9 34.2 51.4





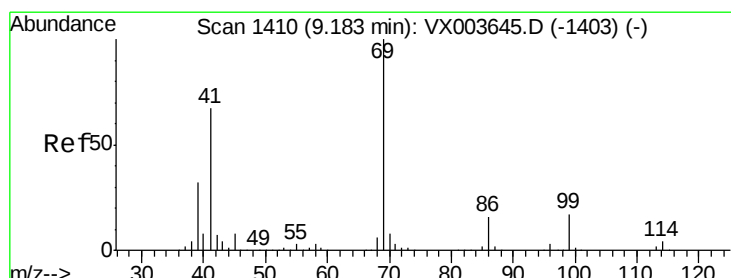
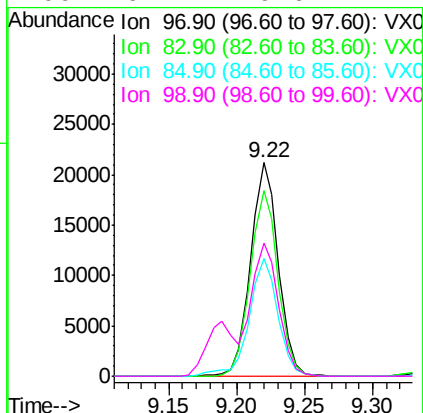
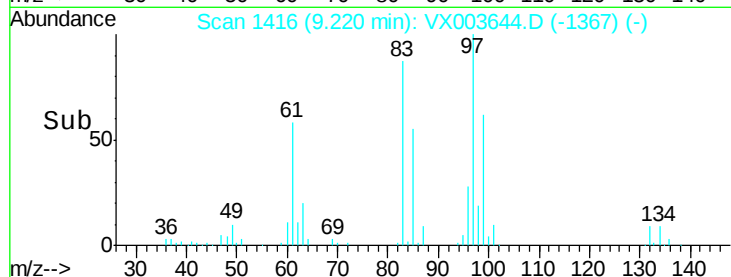
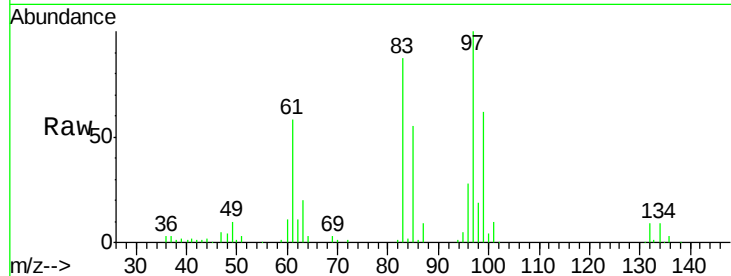
#55
1,1,2-Trichloroethane
Concen: 21.541 ug/l
RT: 9.22 min Scan# 1416
Delta R.T. 0.00 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion:	97	Resp:	30277
Ion	Ratio	Lower	Upper
97	100		
83	86.9	68.7	103.1
85	55.1	43.7	65.5
99	62.2	49.6	74.4

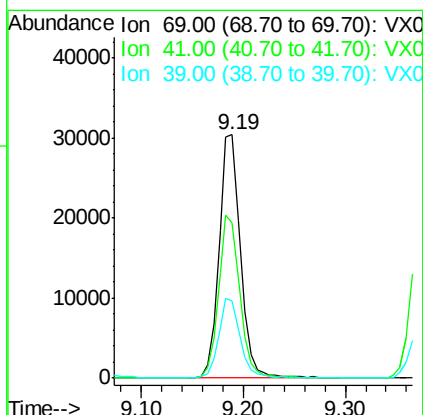
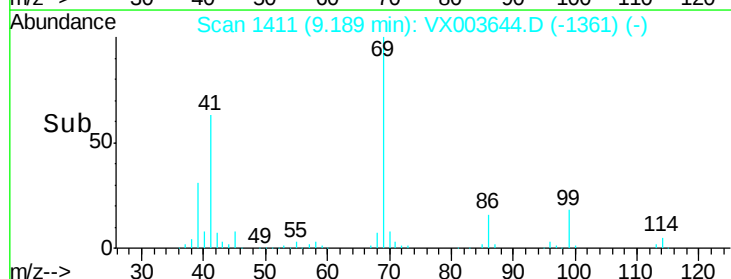
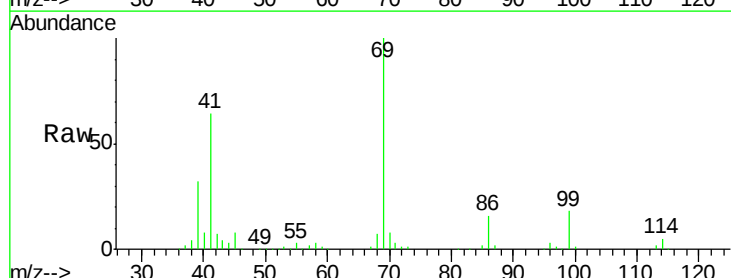
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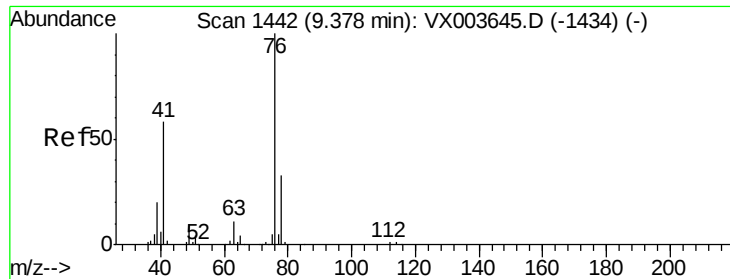
MMDadoda
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#56
Ethyl methacrylate
Concen: 22.348 ug/l
RT: 9.19 min Scan# 1411
Delta R.T. 0.01 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Tgt Ion:	69	Resp:	44736
Ion	Ratio	Lower	Upper
69	100		
41	66.7	53.8	80.6
39	33.6	25.8	38.8





#57

1,3-Dichloropropane

Concen: 22.248 ug/l

RT: 9.38 min Scan# 1442

Delta R.T. -0.00 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 50821

Ion Ratio Lower Upper

76 100

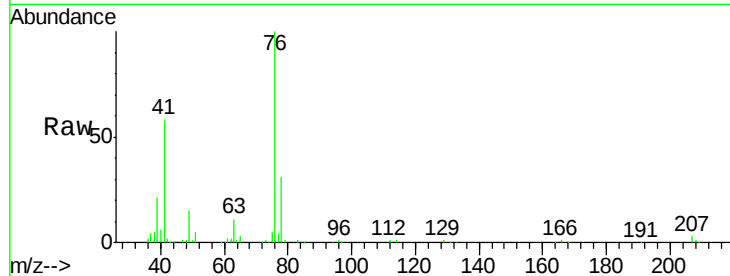
78 31.7 25.6 38.4

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

9.38

40000

30000

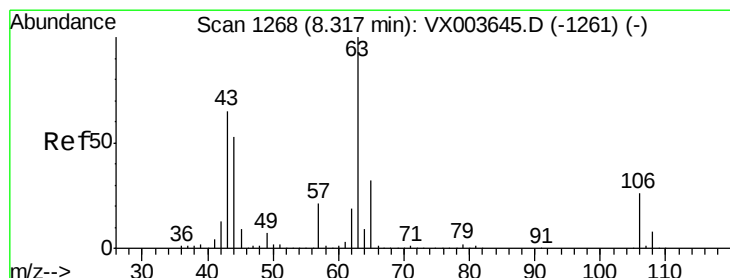
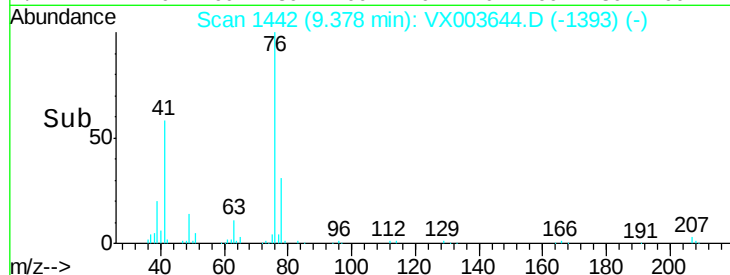
20000

10000

0

9.30 9.35 9.40 9.45

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 117.342 ug/l

RT: 8.32 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VX003644.D

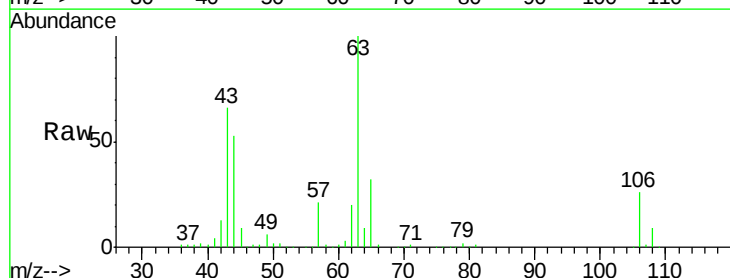
Acq: 24 Jul 2018 17:08

Tgt Ion: 63 Resp: 115481

Ion Ratio Lower Upper

63 100

106 26.7 21.5 32.3



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V

8.32

80000

60000

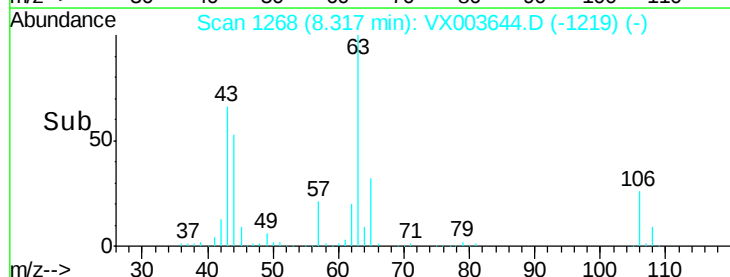
40000

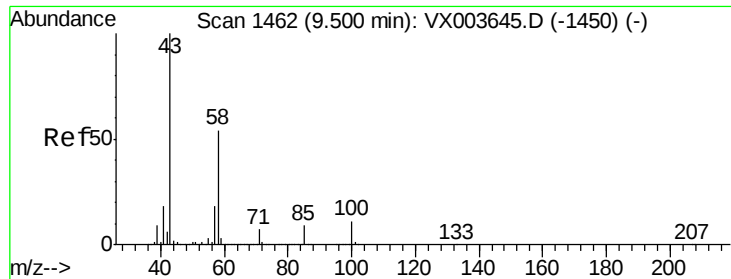
20000

0

8.25 8.30 8.35 8.40 8.45

Time-->





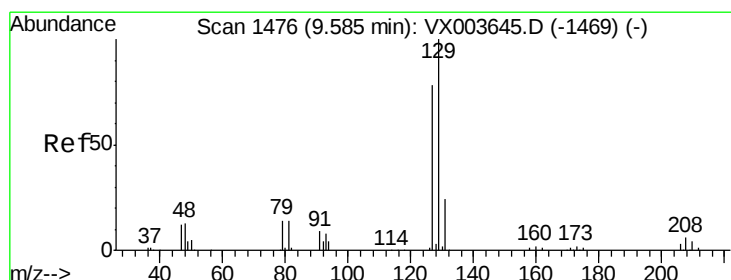
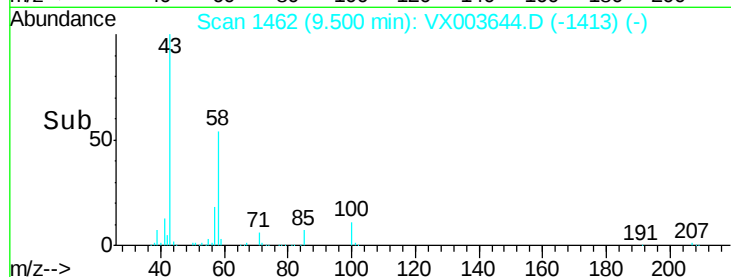
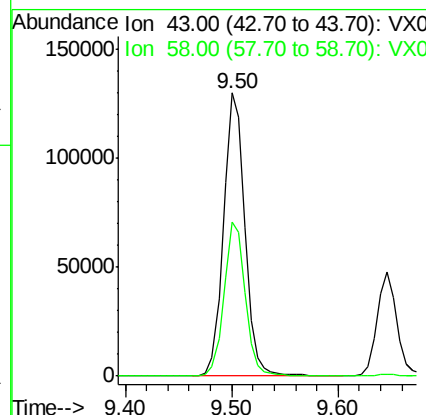
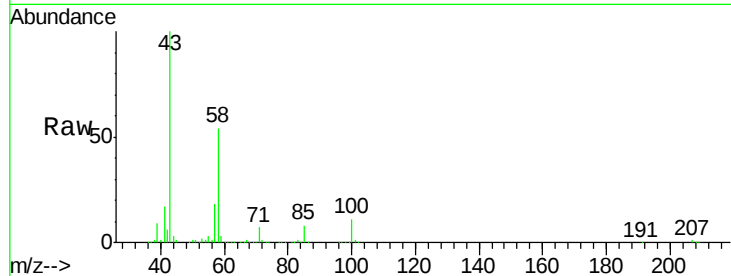
#59
2-Hexanone
Concen: 132.642 ug/l
RT: 9.50 min Scan# 1462
Delta R.T. 0.00 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
58	54.1	27.3	81.9

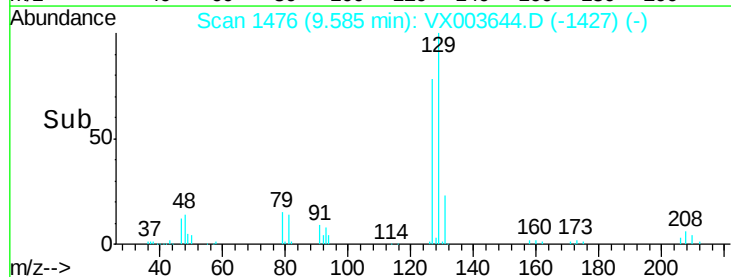
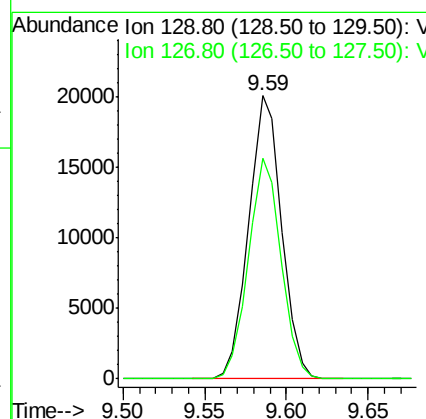
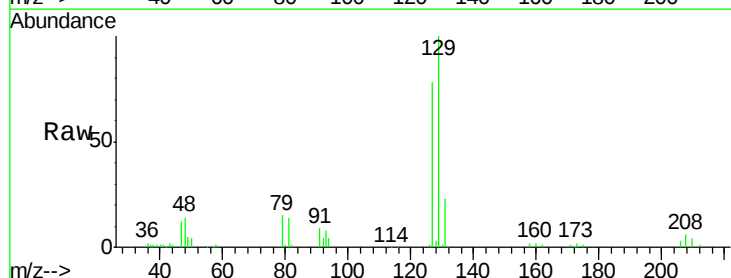
Manual Integrations
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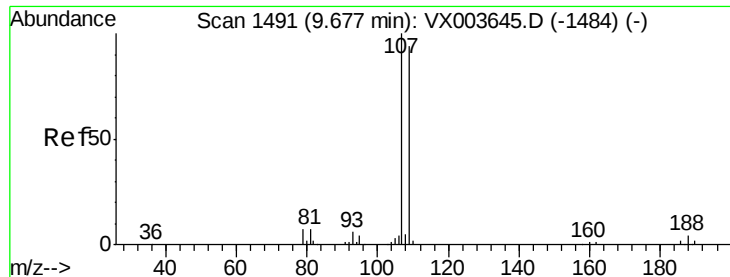
MMDadoda
8/2/2018 11:54:16 AM



#60
Dibromochloromethane
Concen: 20.528 ug/l
RT: 9.59 min Scan# 1476
Delta R.T. 0.00 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.1	38.7	116.1





#61

1,2-Dibromoethane

Concen: 21.582 ug/l

RT: 9.68 min Scan# 1491

Delta R.T. 0.00 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion:107 Resp: 31423

Ion Ratio Lower Upper

107 100

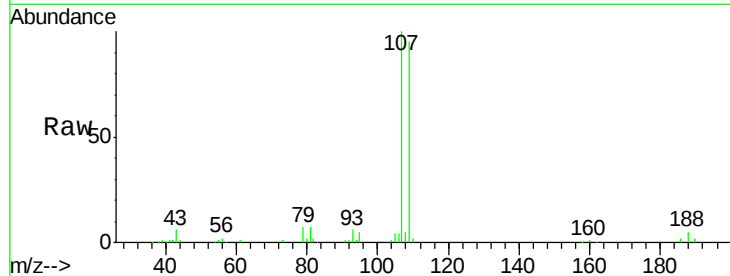
109 93.8 75.4 113.2

Manual Integrations

APPROVED

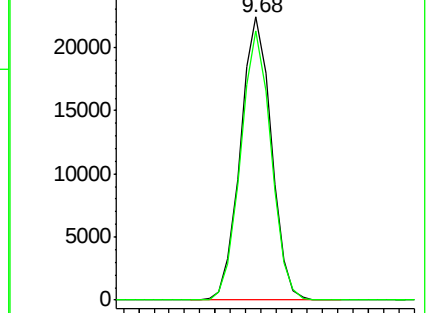
MMDadoda

8/2/2018 11:54:16 AM

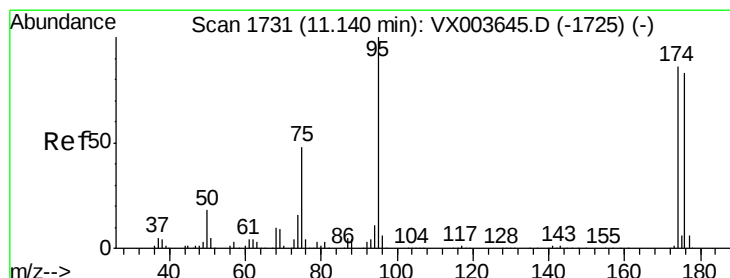
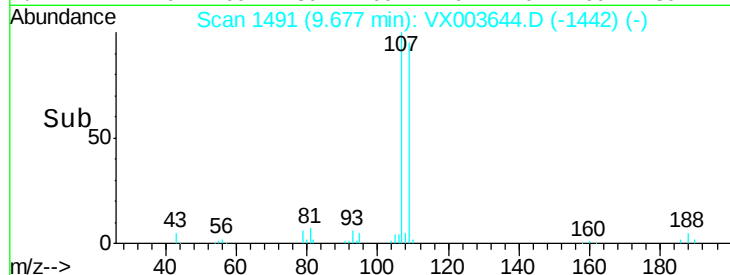


Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



Time-->



#62

4-Bromofluorobenzene

Concen: 21.645 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

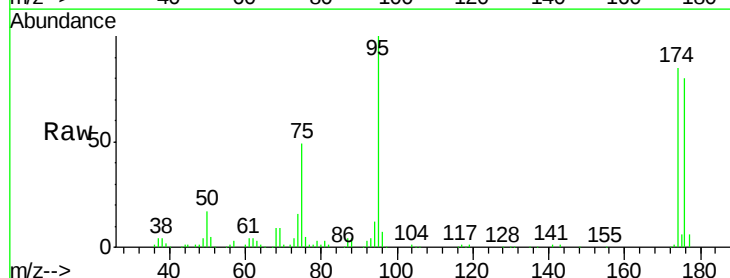
Tgt Ion: 95 Resp: 39057

Ion Ratio Lower Upper

95 100

174 88.8 0.0 179.0

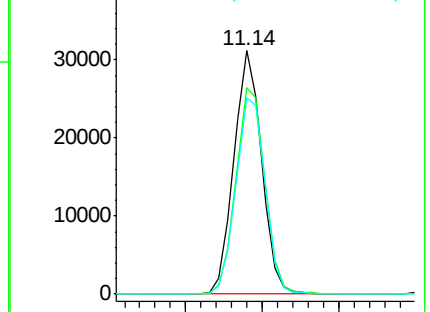
176 85.2 0.0 173.0



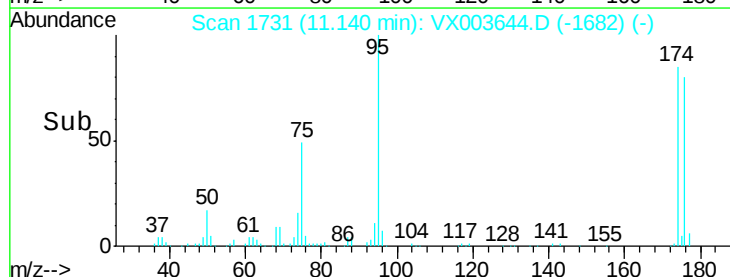
Abundance Ion 94.90 (94.60 to 95.60): VX0

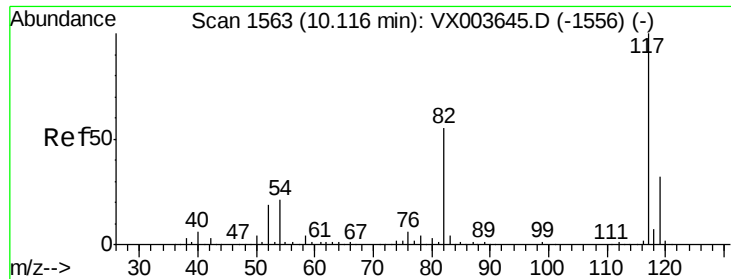
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



Time-->





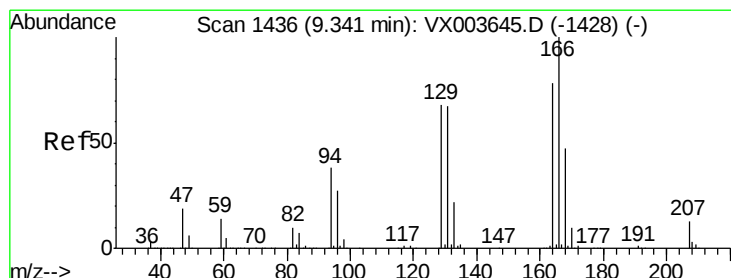
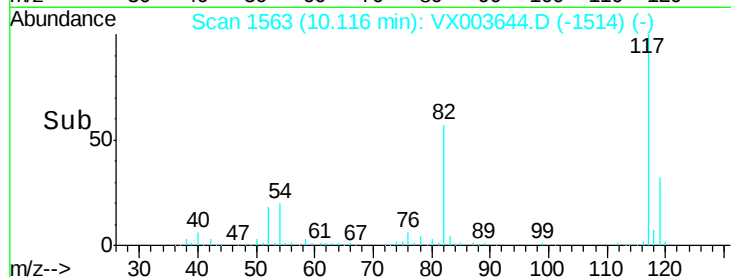
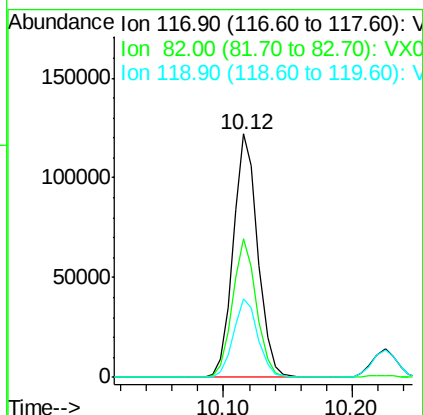
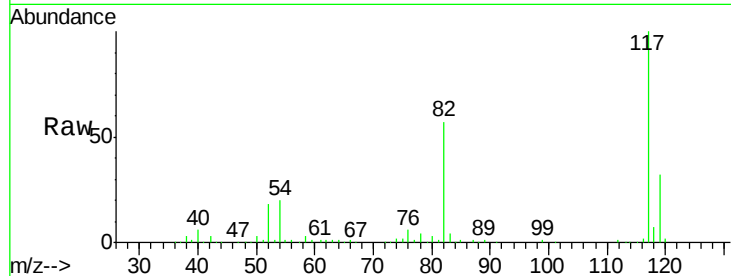
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.0	44.3	66.5
119	32.2	25.6	38.4

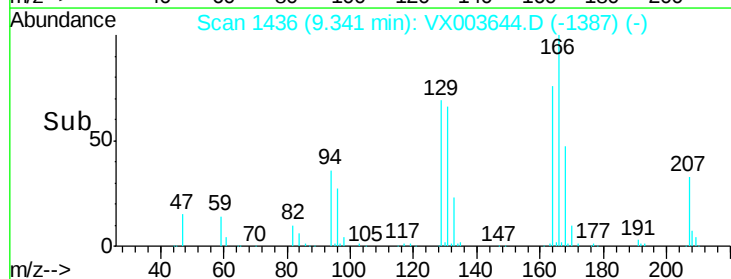
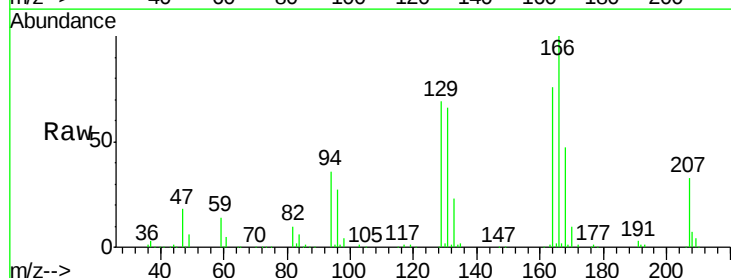
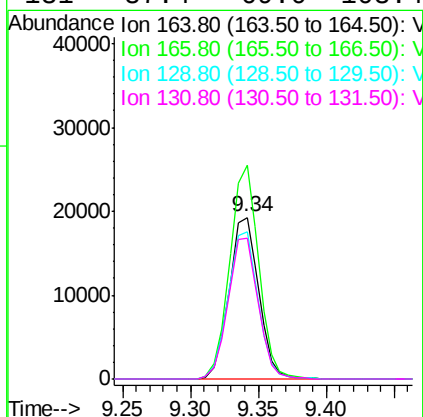
Manual Integrations
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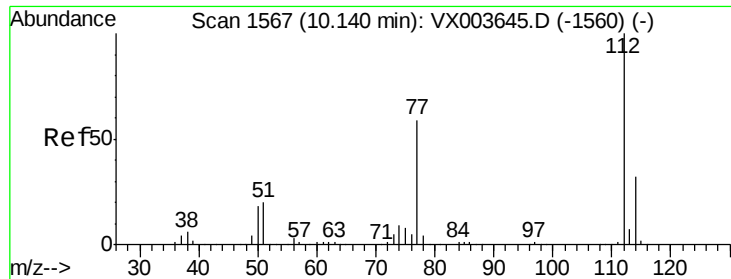
MMDadoda
8/2/2018 11:54:16 AM



#64
Tetrachloroethene
Concen: 15.448 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. 0.00 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Tgt Ion	Ratio	Lower	Upper
164	100		
166	132.3	102.4	153.6
129	91.4	69.6	104.4
131	87.4	69.0	103.4





#65

Chlorobenzene

Concen: 19.573 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion:112 Resp: 81644

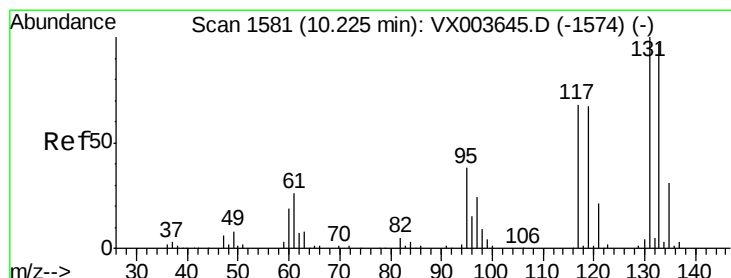
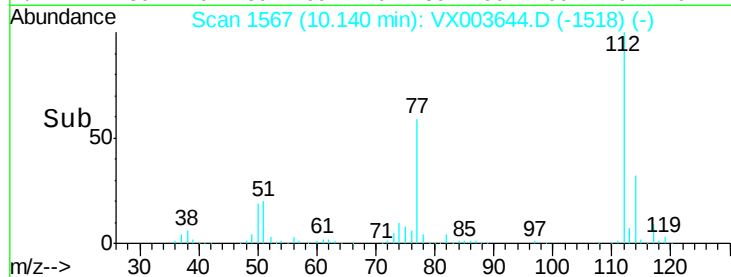
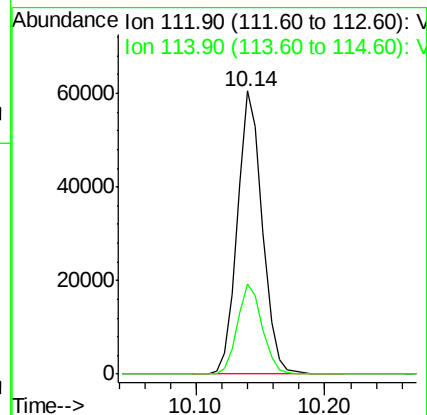
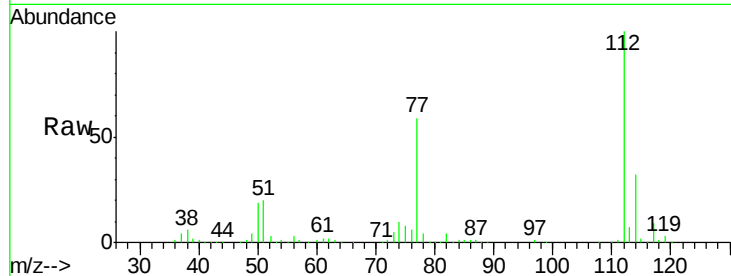
Ion Ratio Lower Upper

112 100

114 32.1 25.8 38.8

Manual Integrations
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#66

1,1,1,2-Tetrachloroethane

Concen: 19.544 ug/l

RT: 10.23 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

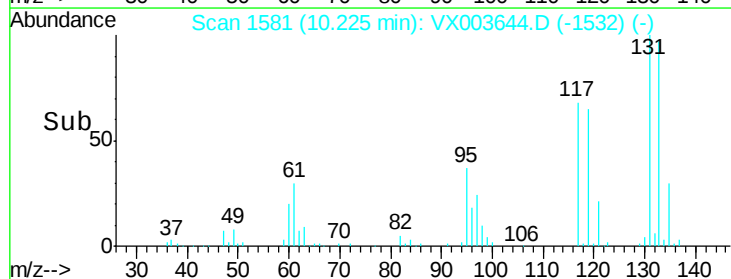
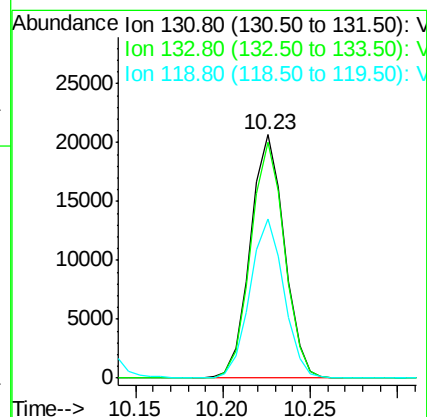
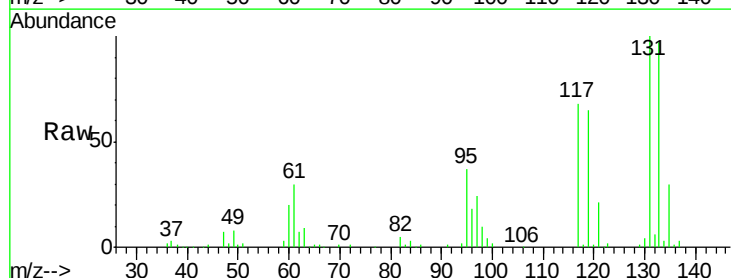
Tgt Ion:131 Resp: 28040

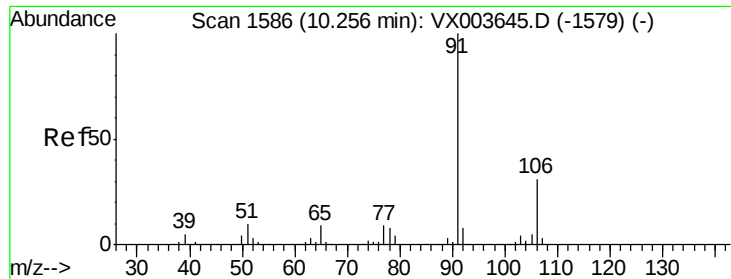
Ion Ratio Lower Upper

131 100

133 96.0 47.6 142.8

119 65.2 32.8 98.4





#67

Ethyl Benzene

Concen: 20.113 ug/l

RT: 10.26 min Scan# 1586

Delta R.T. 0.00 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 136060

Ion Ratio Lower Upper

91 100

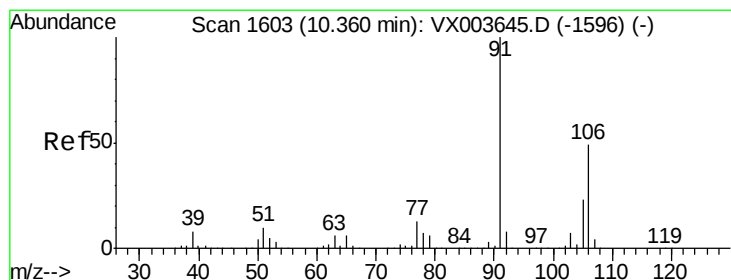
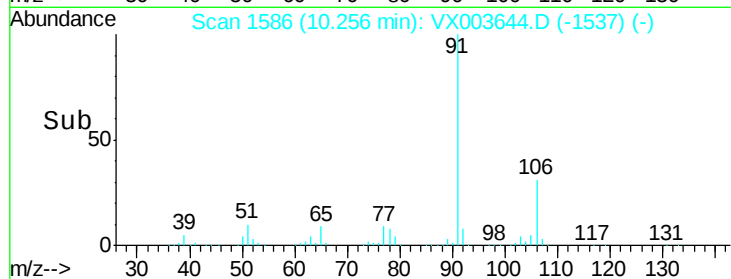
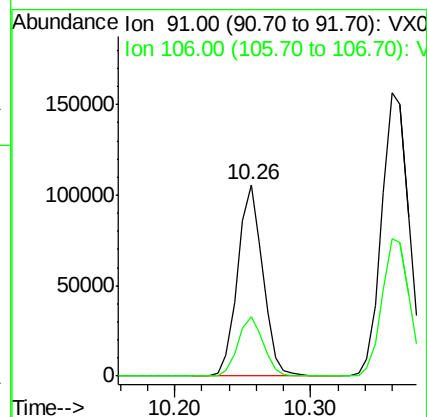
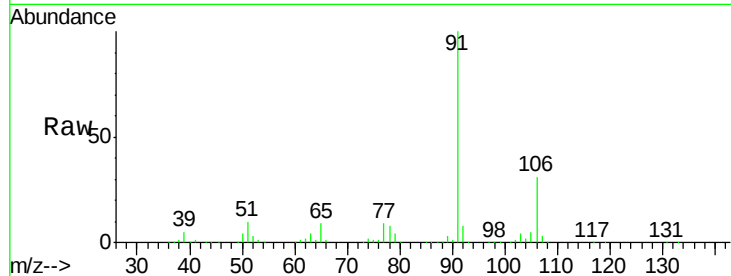
106 31.3 25.0 37.6

Manual Integrations

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#68

m/p-Xylenes

Concen: 40.418 ug/l

RT: 10.36 min Scan# 1603

Delta R.T. 0.00 min

Lab File: VX003644.D

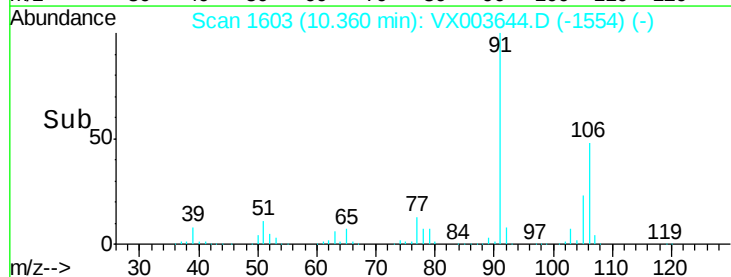
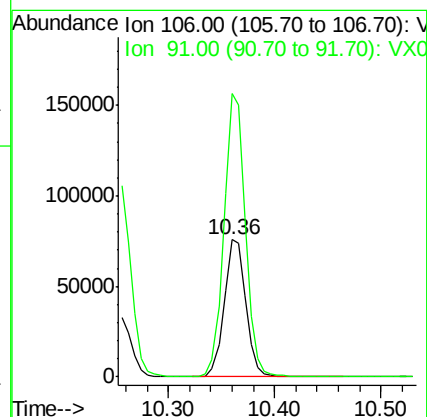
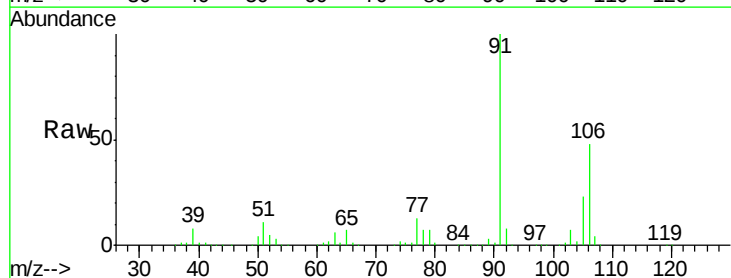
Acq: 24 Jul 2018 17:08

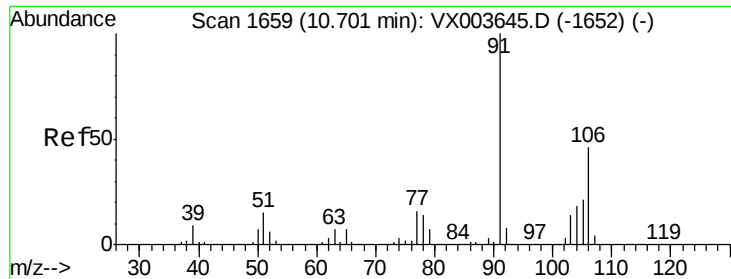
Tgt Ion: 106 Resp: 106810

Ion Ratio Lower Upper

106 100

91 204.4 162.2 243.2





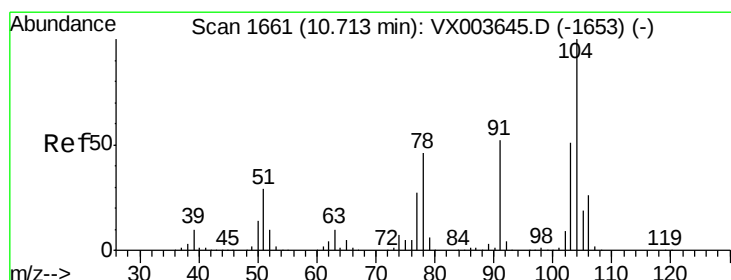
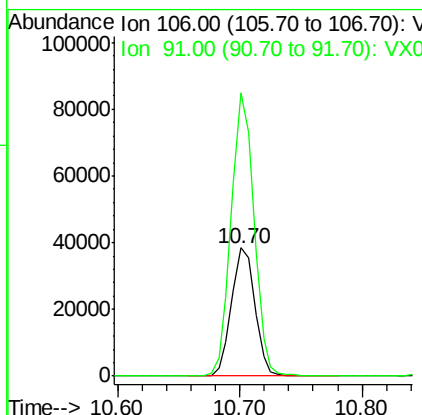
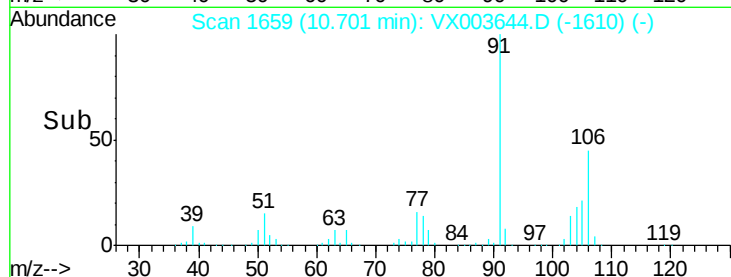
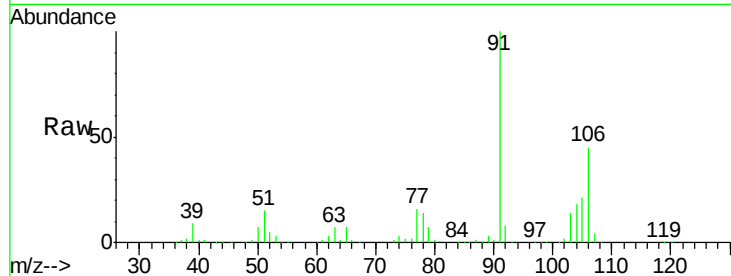
#69
o-Xylene
Concen: 20.013 ug/l
RT: 10.70 min Scan# 1659
Delta R.T. -0.00 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion:106 Resp: 51059
Ion Ratio Lower Upper
106 100
91 215.4 107.1 321.1

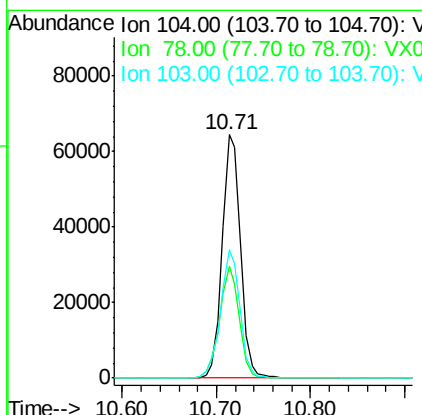
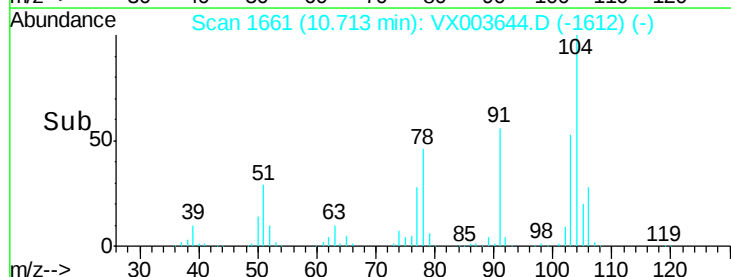
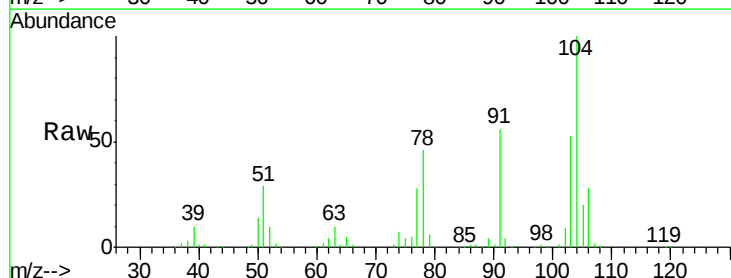
Manual Integrations
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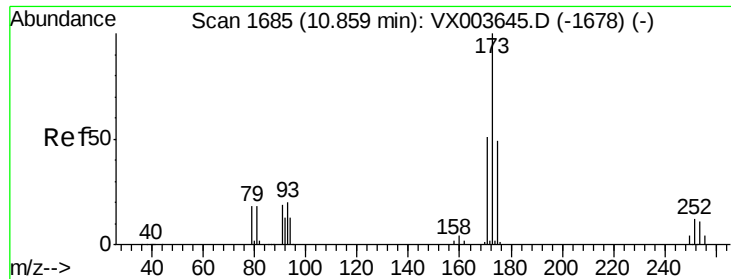
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#70
Styrene
Concen: 20.629 ug/l
RT: 10.71 min Scan# 1661
Delta R.T. 0.00 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Tgt Ion:104 Resp: 86833
Ion Ratio Lower Upper
104 100
78 49.1 39.2 58.8
103 55.9 44.2 66.4





#71

Bromoform

Concen: 19.071 ug/l

RT: 10.86 min Scan# 1685

Delta R.T. 0.00 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

Instrument :

MSVOA_X

ClientSampled :

VSTDIC020

Tot Ion:173 Resp: 21294

Ion Ratio Lower Upper

173 100

175 48.9 24.1 72.2

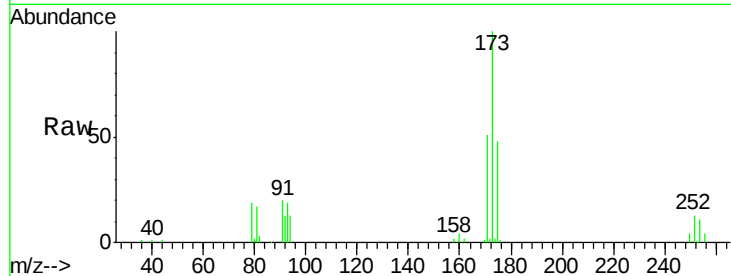
254 0.0 0.0 0.0

Manual Integrations

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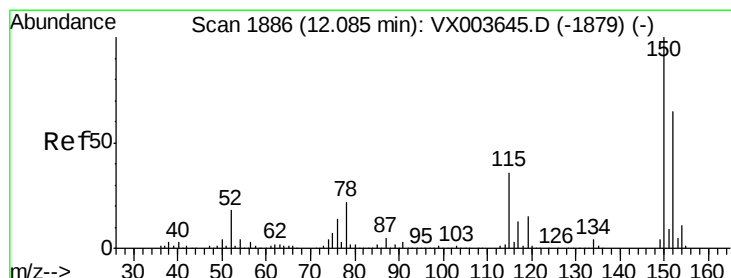
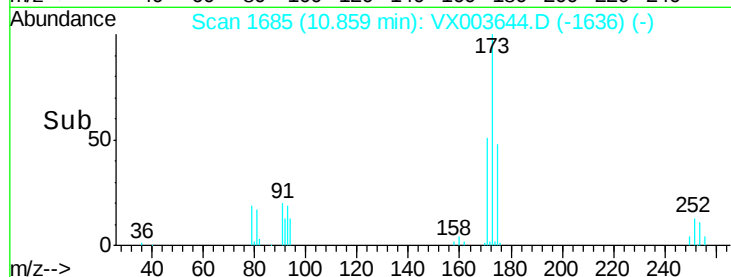
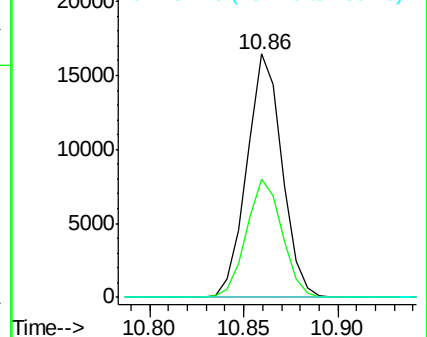
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Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

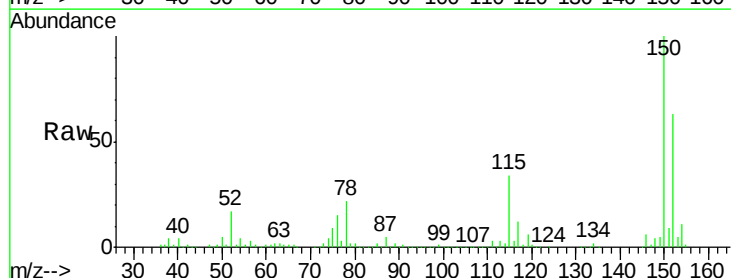
Tgt Ion:152 Resp: 96022

Ion Ratio Lower Upper

152 100

115 65.4 40.0 119.9

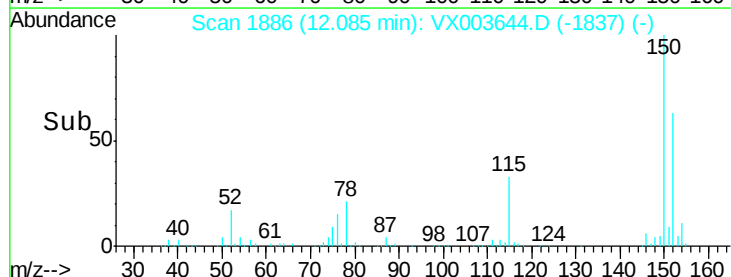
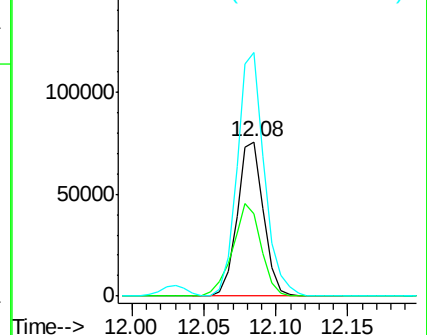
150 164.2 0.0 348.4

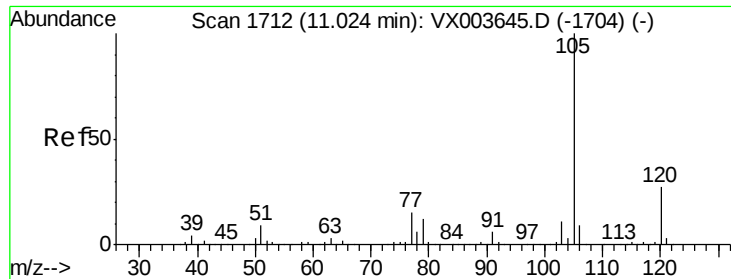


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.615 ug/l

RT: 11.02 min Scan# 1712

Delta R.T. 0.00 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 137304

Ion Ratio Lower Upper

105 100

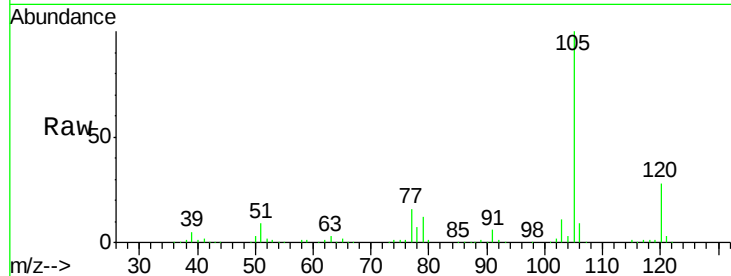
120 26.8 13.5 40.5

Manual Integrations

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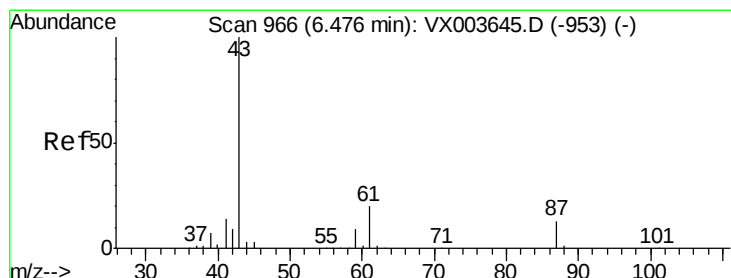
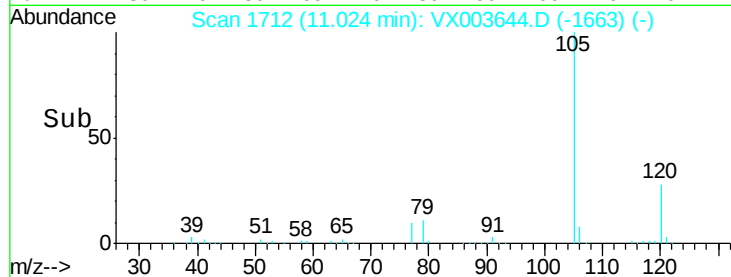
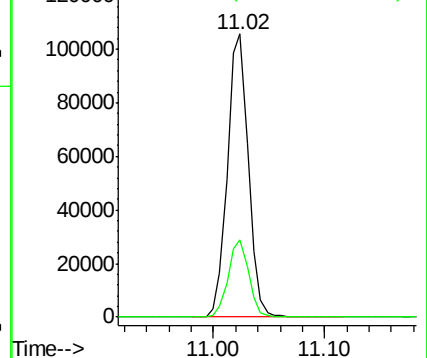
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 23.617 ug/l

RT: 6.48 min Scan# 966

Delta R.T. -0.00 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

Tgt Ion: 43 Resp: 69347

Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.0 0.0

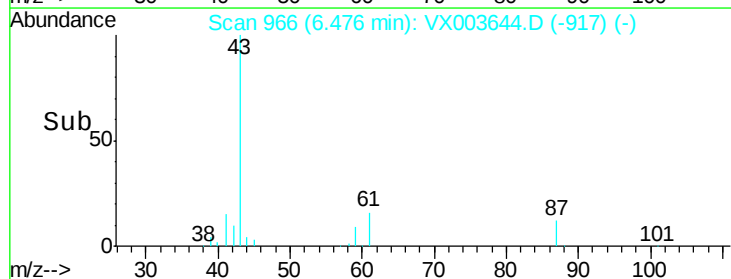
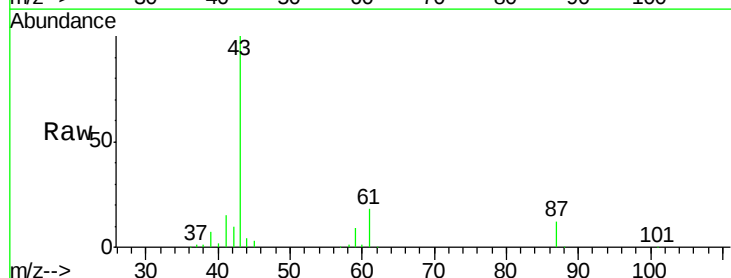
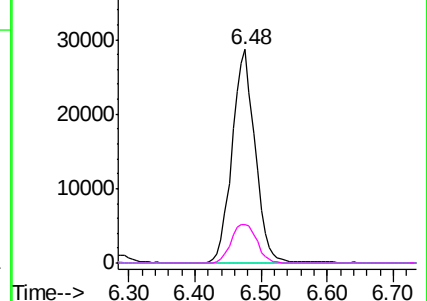
61 20.2 15.9 23.9

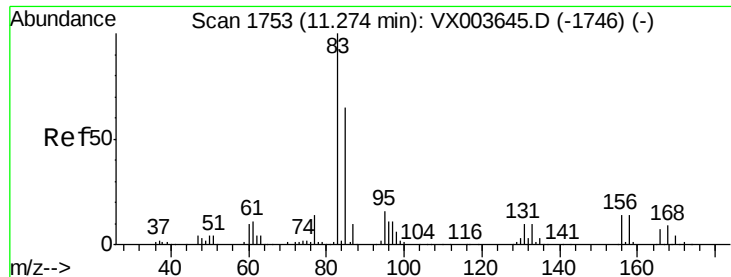
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#75

1,1,2,2-Tetrachloroethane

Concen: 24.082 ug/l

RT: 11.27 min Scan# 1753

Delta R.T. -0.00 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

Instrument :

MSVOA_X

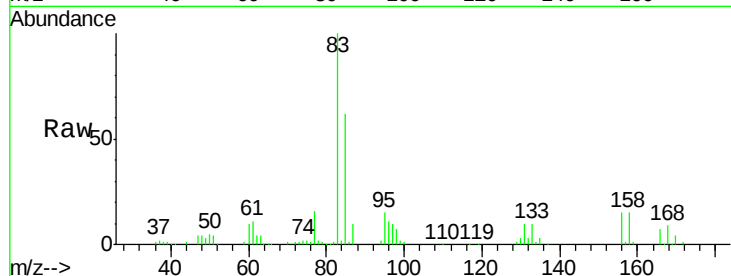
ClientSampleId :

VSTDIC020

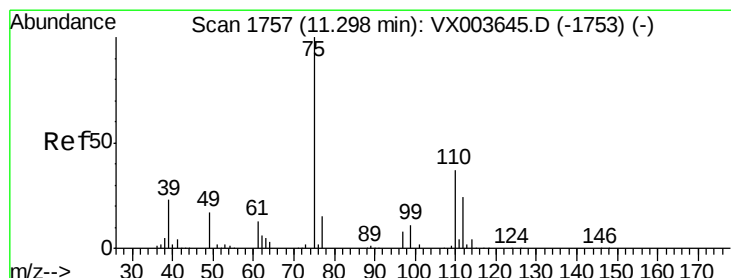
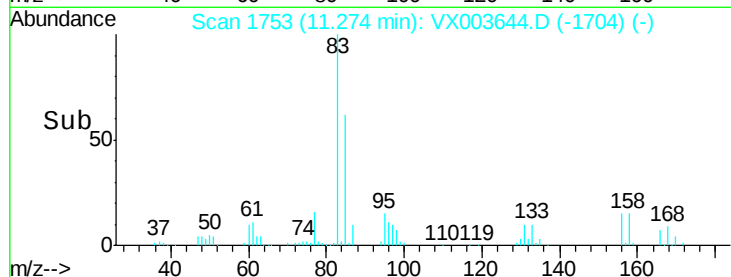
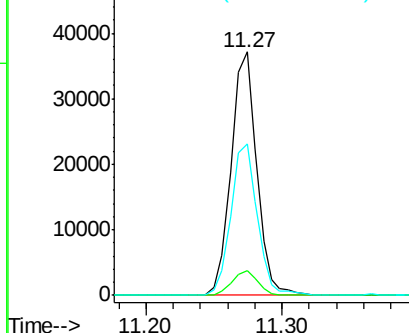
Tot Ion:	83	Resp:	48684
Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.1	15.4
85	64.1	31.9	95.9

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



#76

1,2,3-Trichloropropane

Concen: 23.124 ug/l m

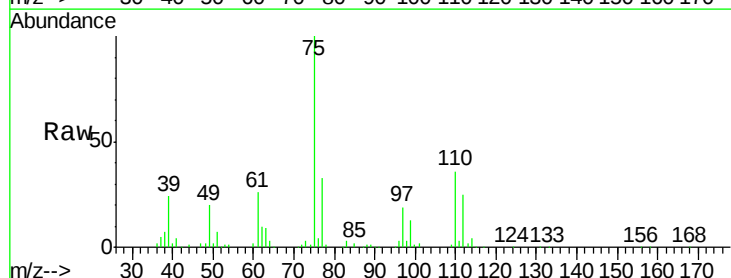
RT: 11.30 min Scan# 1757

Delta R.T. 0.00 min

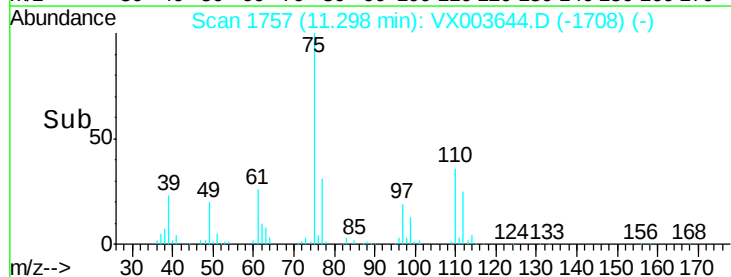
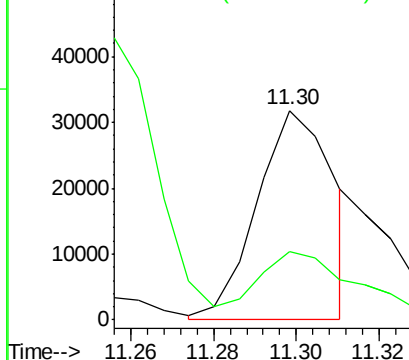
Lab File: VX003644.D

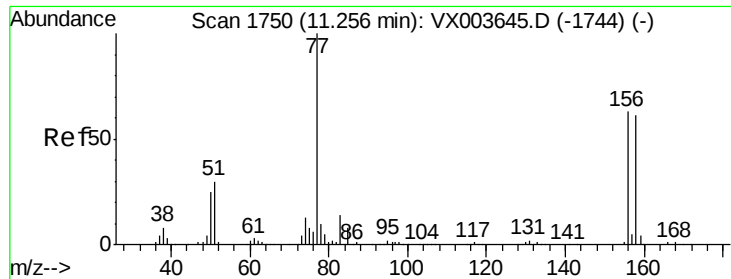
Acq: 24 Jul 2018 17:08

Tgt Ion:	75	Resp:	41040
Ion	Ratio	Lower	Upper
75	100		
77	43.1	21.6	64.6



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





#77

Bromobenzene

Concen: 19.041 ug/l

RT: 11.26 min Scan# 1750

Delta R.T. 0.00 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

Instrument :

MSVOA_X

ClientSampled :

VSTDIC020

Tot Ion:156 Resp: 36121

Ion Ratio Lower Upper

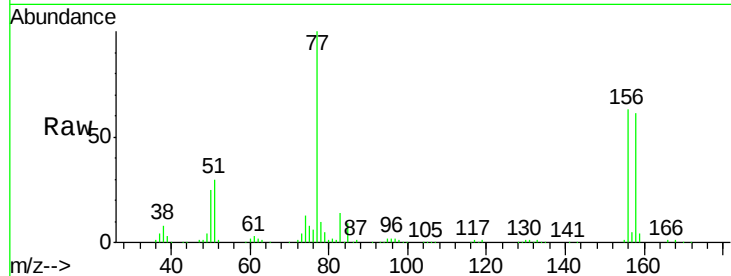
156 100

77 150.9 74.9 224.6

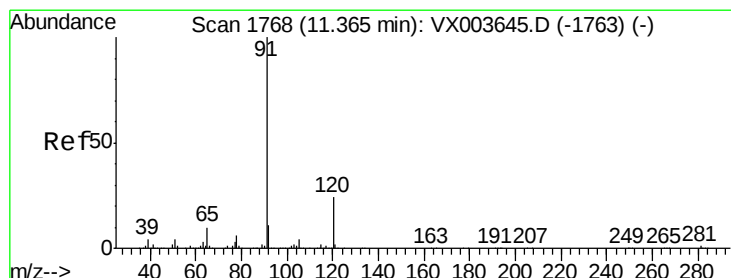
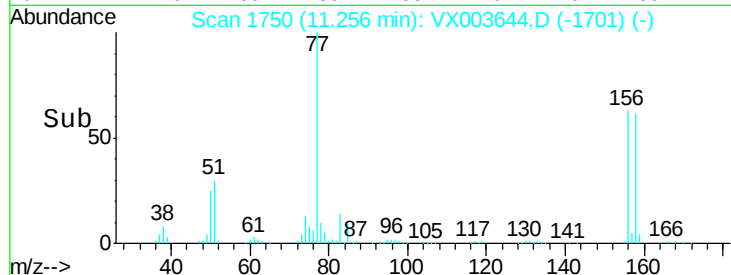
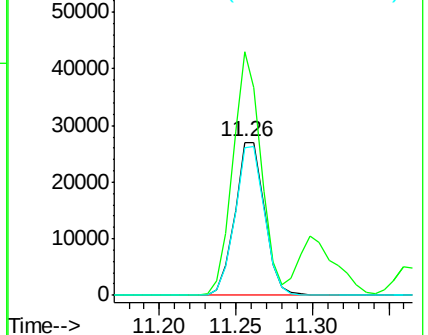
158 97.4 48.4 145.2

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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: 21.268 ug/l

RT: 11.37 min Scan# 1768

Delta R.T. 0.00 min

Lab File: VX003644.D

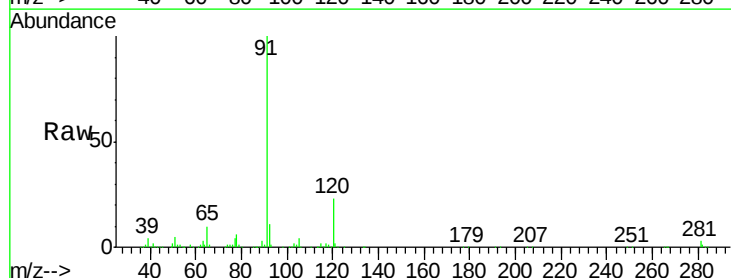
Acq: 24 Jul 2018 17:08

Tgt Ion: 91 Resp: 158655

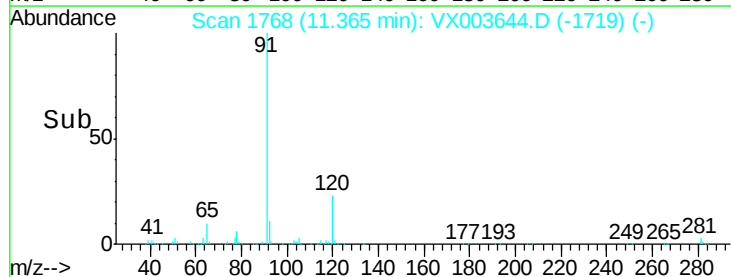
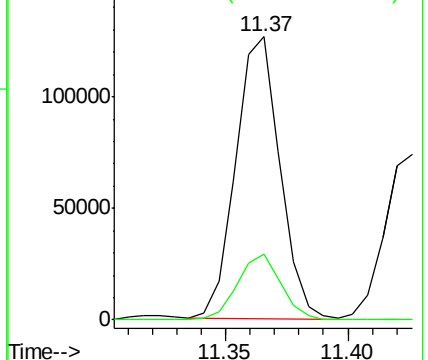
Ion Ratio Lower Upper

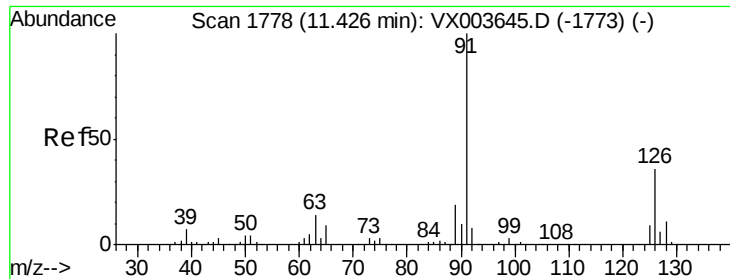
91 100

120 23.1 11.8 35.3



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





#79

2-Chlorotoluene

Concen: 21.014 ug/l

RT: 11.43 min Scan# 1778

Delta R.T. 0.00 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

Instrument :

MSVOA_X

ClientSampled :

VSTDIC020

Tot Ion: 91 Resp: 95092

Ion Ratio Lower Upper

91 100

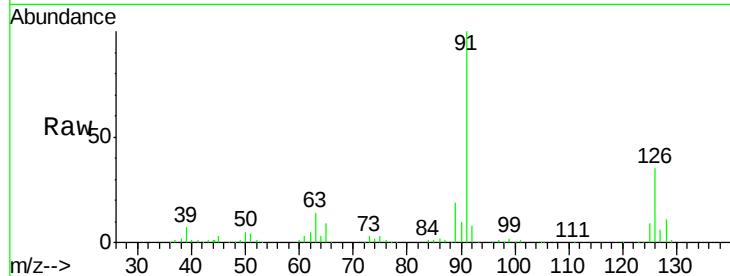
126 35.3 17.3 52.0

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Abundance Ion 91.00 (90.70 to 91.70): VX003644.D (-1773) (-)

Ion 125.90 (125.60 to 126.60): VX003644.D (-1773) (-)

150000

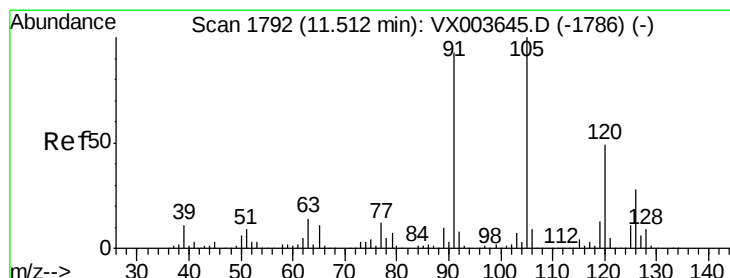
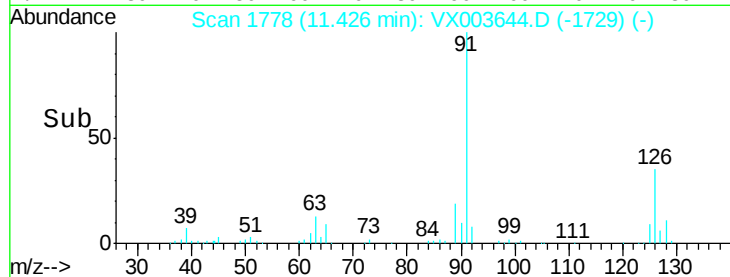
100000

50000

0

11.40 11.43 11.45 11.50

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 21.335 ug/l

RT: 11.51 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX003644.D

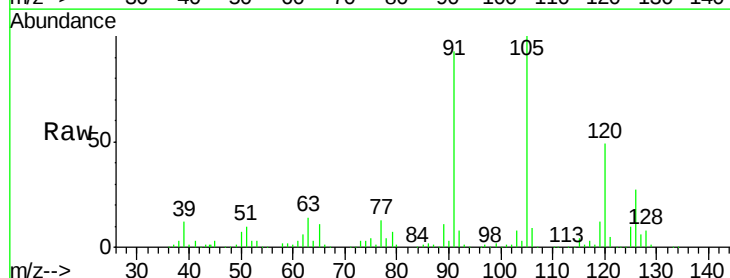
Acq: 24 Jul 2018 17:08

Tgt Ion: 105 Resp: 117488

Ion Ratio Lower Upper

105 100

120 48.5 24.4 73.4



Abundance Ion 105.00 (104.70 to 105.70): VX003644.D (-1786) (-)

Ion 120.00 (119.70 to 120.70): VX003644.D (-1786) (-)

100000

80000

60000

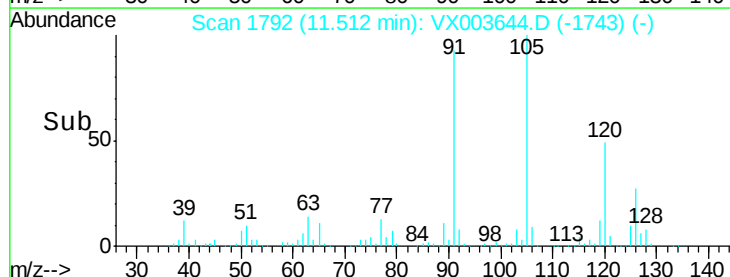
40000

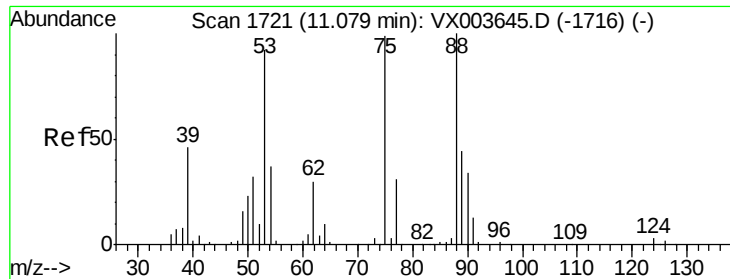
20000

0

11.50 11.51 11.52 11.53 11.54 11.55 11.56 11.57 11.58 11.59 11.60

Time-->





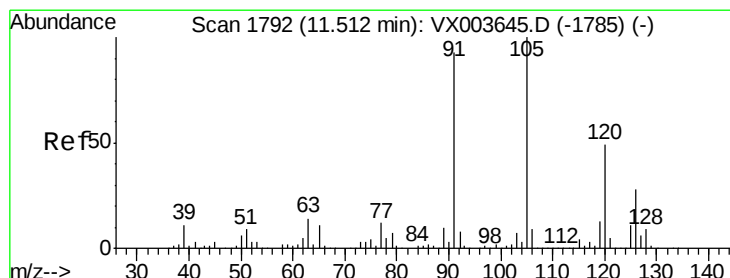
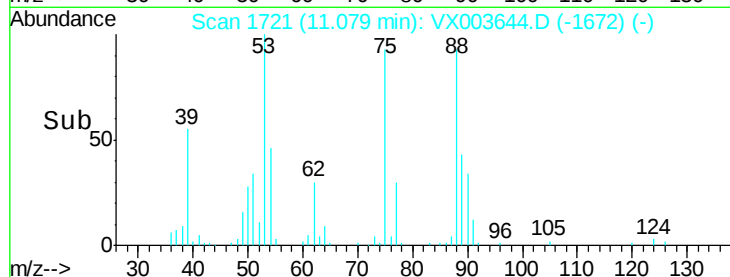
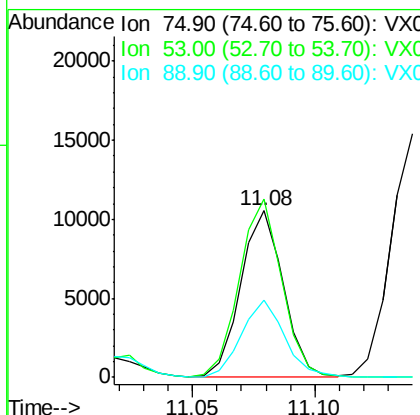
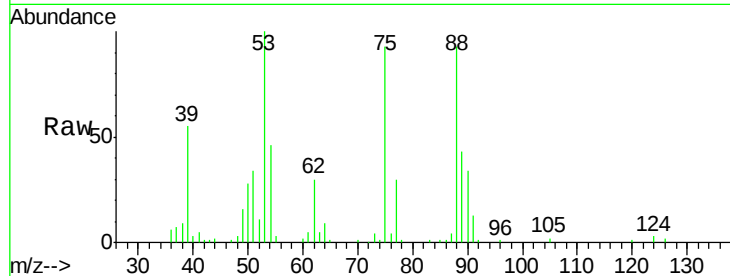
#81
trans-1,4-Dichloro-2-butene
Concen: 22.830 ug/l
RT: 11.08 min Scan# 1721
Delta R.T. 0.00 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Instrument :
MSVOA_X
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
53	106.9	77.8	116.8
89	47.5	36.6	54.8

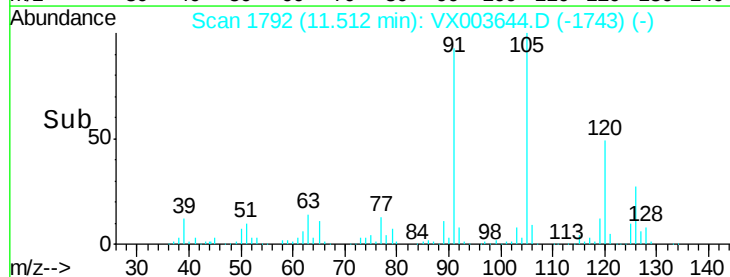
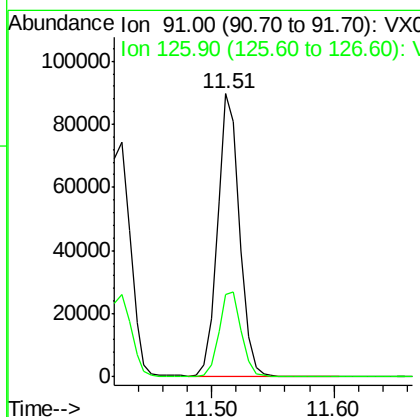
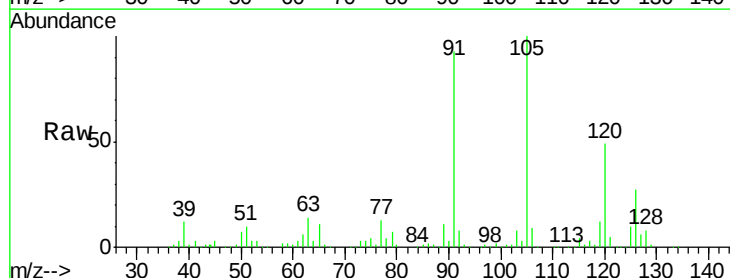
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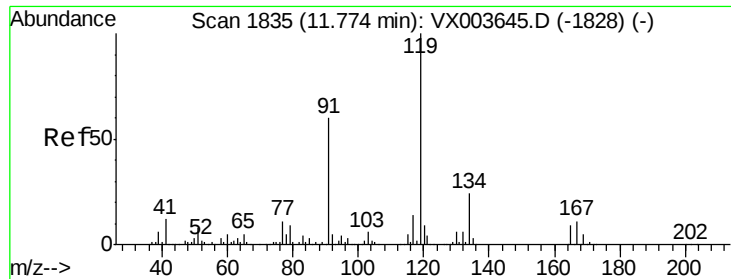
MMDadoda
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#82
4-Chlorotoluene
Concen: 21.106 ug/l
RT: 11.51 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.6	15.4	46.1





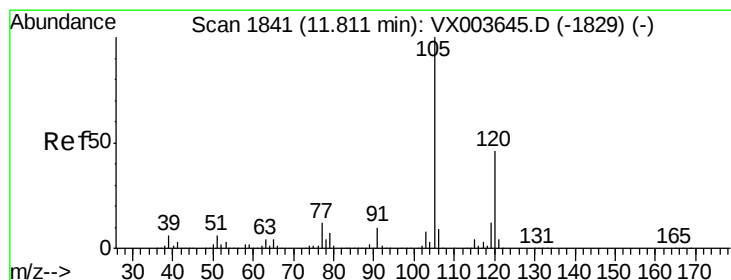
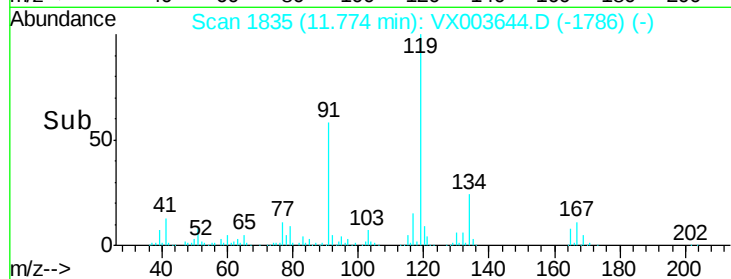
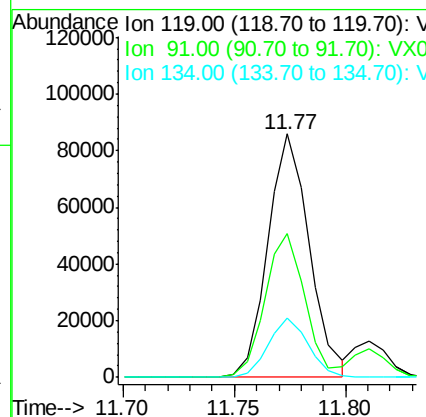
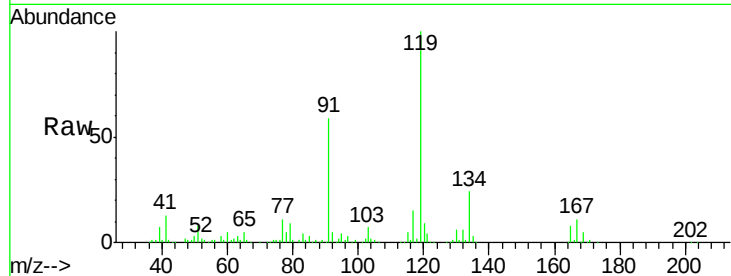
#83
tert-Butylbenzene
Concen: 20.590 ug/l
RT: 11.77 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	110870		
91	57.4	28.4	85.2	
134	23.4	11.6	34.8	

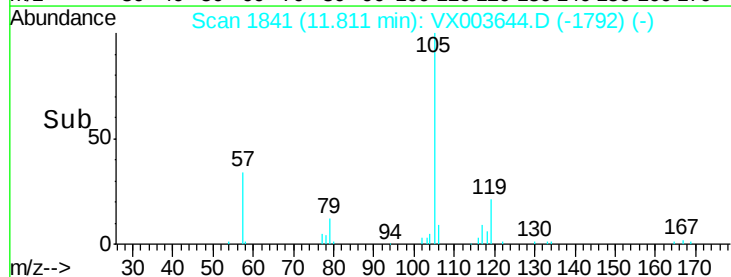
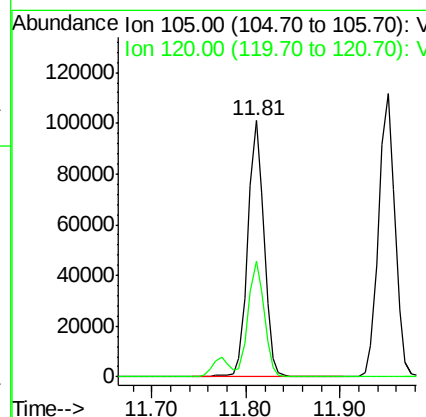
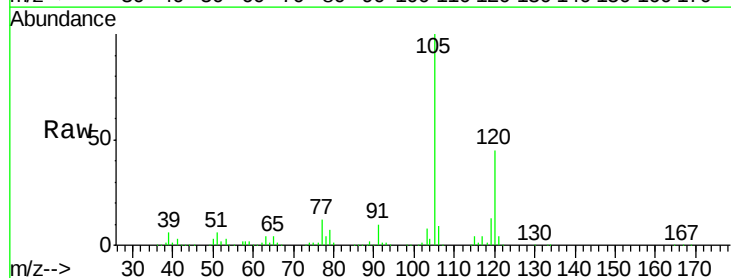
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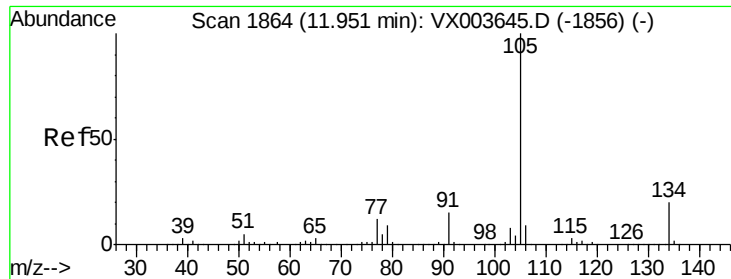
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 21.543 ug/l
RT: 11.81 min Scan# 1841
Delta R.T. 0.00 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	120817		
120	45.0	22.6	67.8	





#85

sec-Butylbenzene

Concen: 20.715 ug/l

RT: 11.95 min Scan# 1864

Delta R.T. 0.00 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 135282

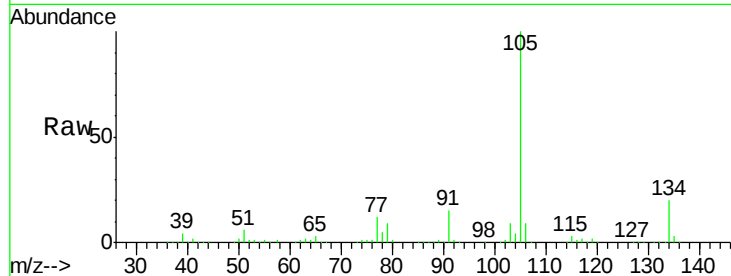
Ion Ratio Lower Upper

105 100

134 20.1 10.1 30.1

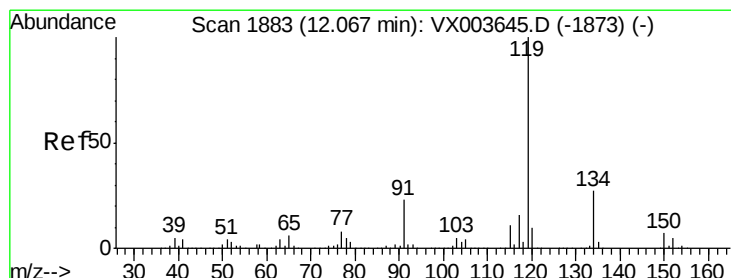
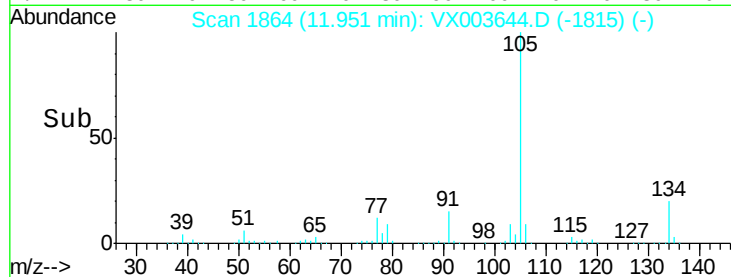
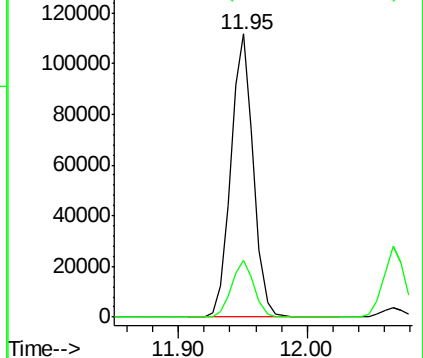
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 20.389 ug/l

RT: 12.07 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

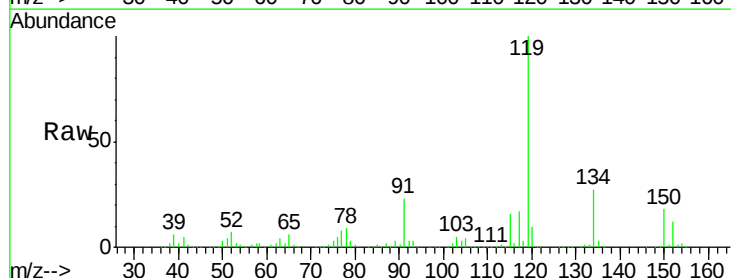
Tgt Ion:119 Resp: 119348

Ion Ratio Lower Upper

119 100

134 26.4 13.3 39.9

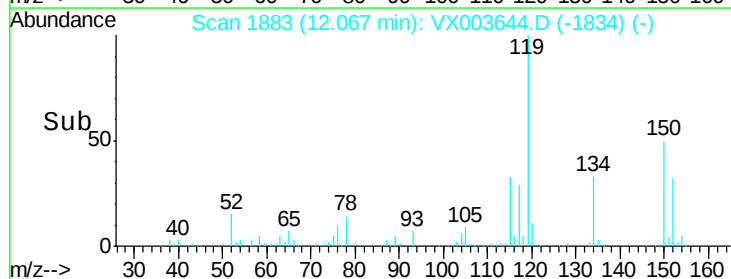
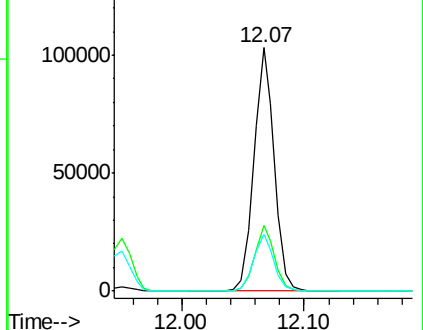
91 23.5 11.5 34.5

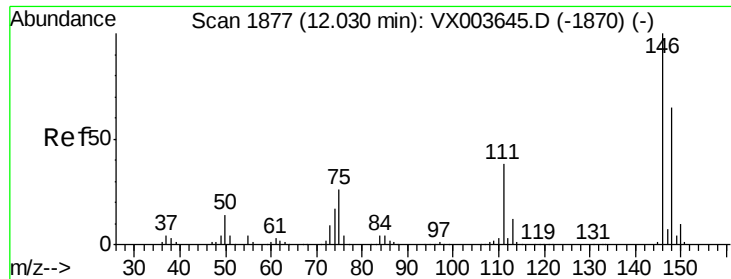


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 19.123 ug/l

RT: 12.03 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

Instrument :

MSVOA_X

ClientSampled :

VSTDIC020

Tot Ion:146 Resp: 67000

Ion Ratio Lower Upper

146 100

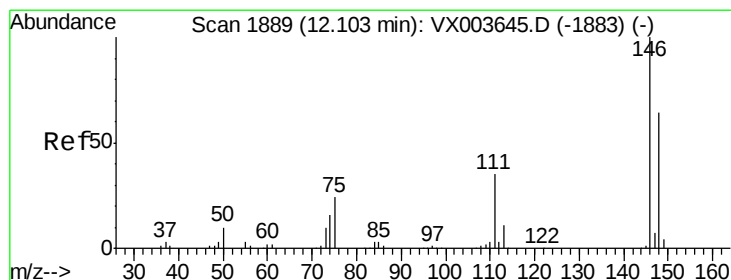
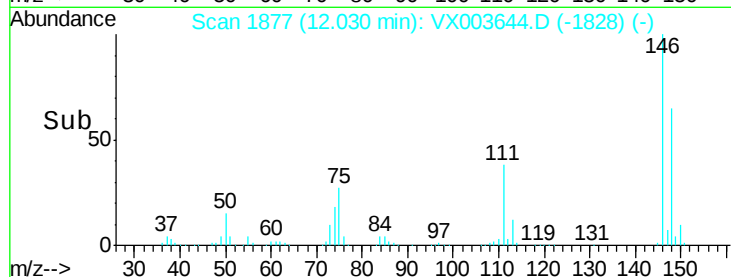
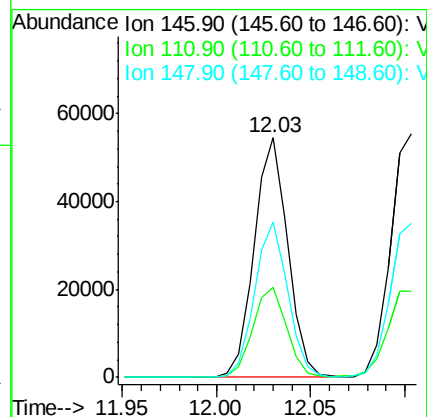
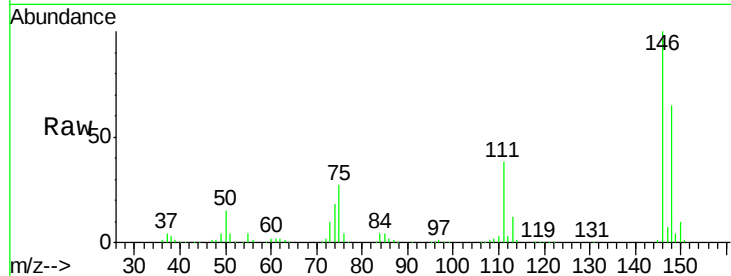
111 38.2 19.4 58.2

148 64.4 32.4 97.0

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#88

1,4-Dichlorobenzene

Concen: 18.852 ug/l

RT: 12.10 min Scan# 1889

Delta R.T. 0.00 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

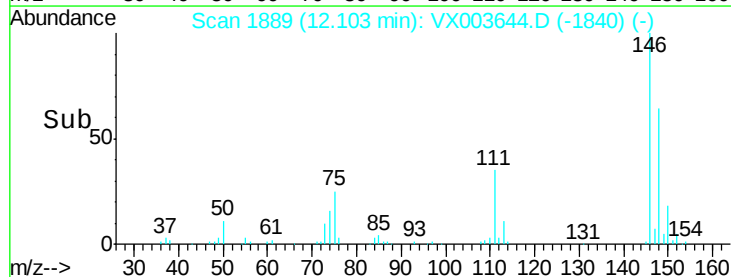
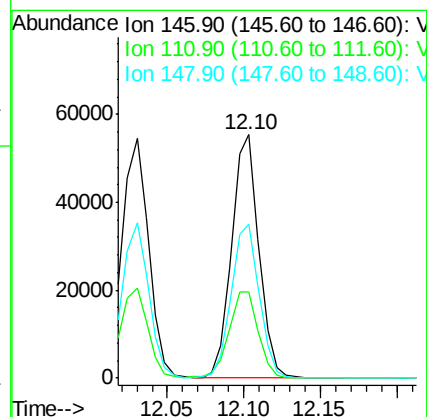
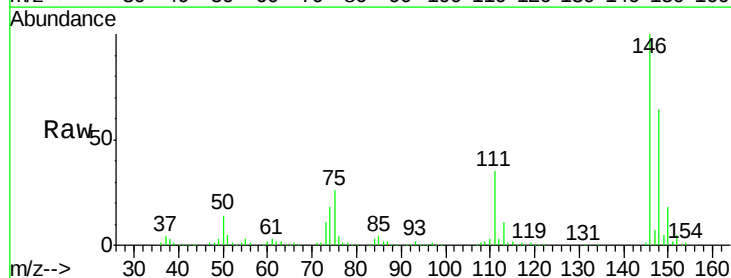
Tgt Ion:146 Resp: 68156

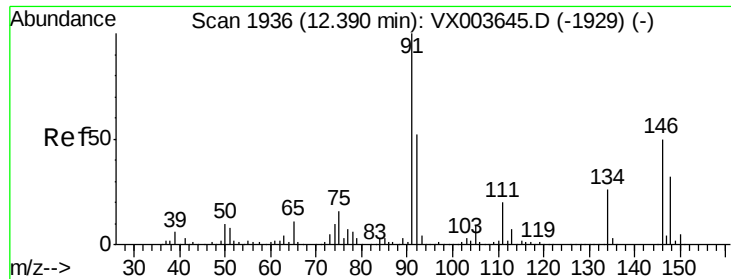
Ion Ratio Lower Upper

146 100

111 38.1 18.6 55.6

148 65.1 32.0 96.2





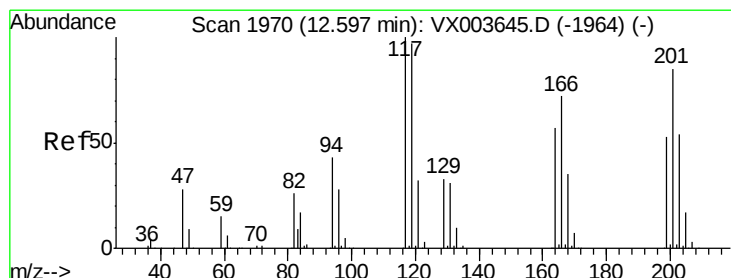
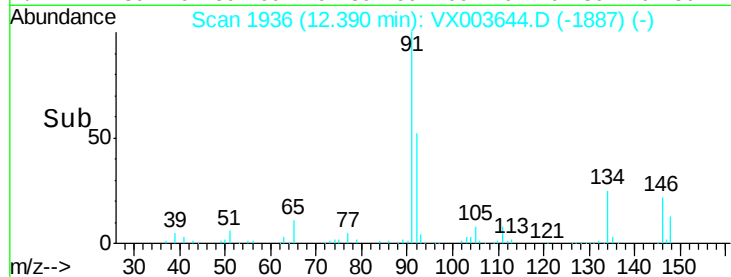
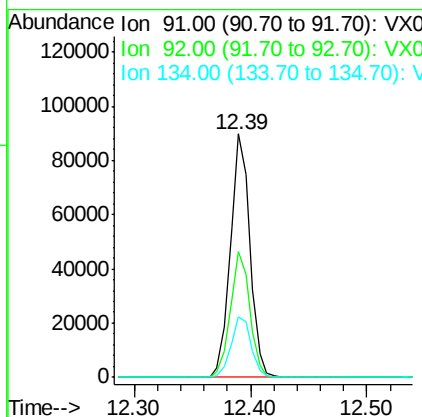
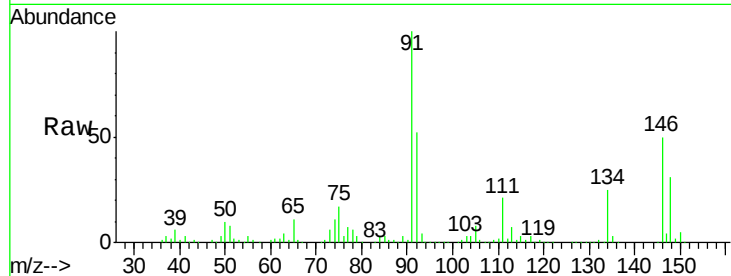
#89
n-Butylbenzene
Concen: 20.861 ug/l
RT: 12.39 min Scan# 1936
Delta R.T. 0.00 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.4	26.3	78.9
134	25.6	13.3	39.8

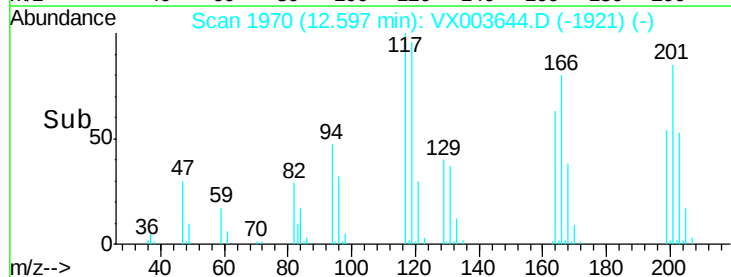
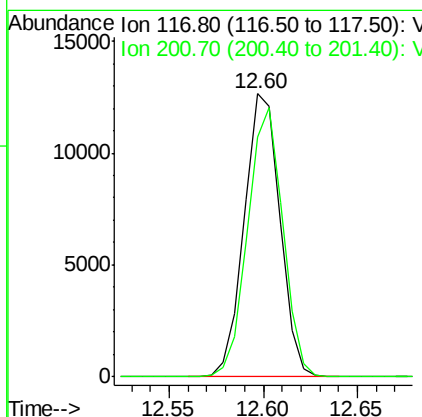
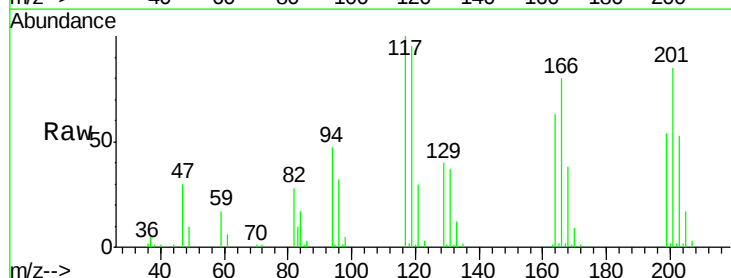
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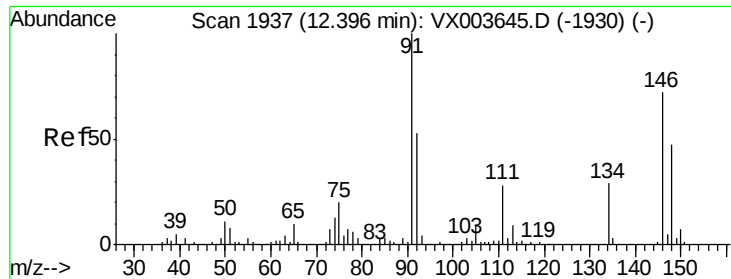
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#90
Hexachloroethane
Concen: 19.830 ug/l
RT: 12.60 min Scan# 1970
Delta R.T. -0.00 min
Lab File: VX003644.D
Acq: 24 Jul 2018 17:08

Tgt Ion	Ratio	Lower	Upper
117	100		
201	93.2	46.2	138.5





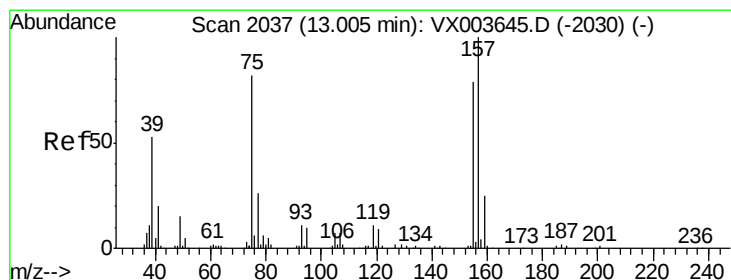
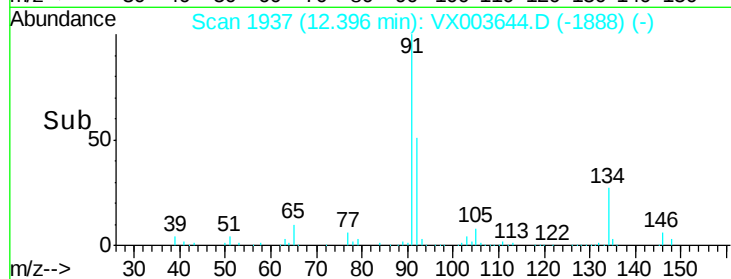
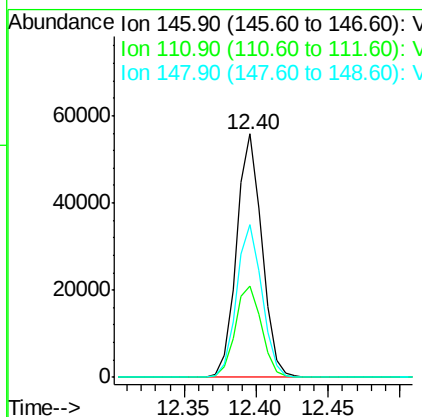
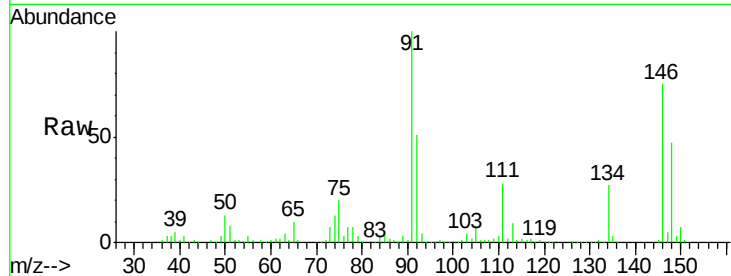
#91
 1,2-Dichlorobenzene
 Concen: 19.796 ug/l
 RT: 12.40 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VX003644.D
 Acq: 24 Jul 2018 17:08

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.9	19.8	59.4
148	63.1	32.2	96.6

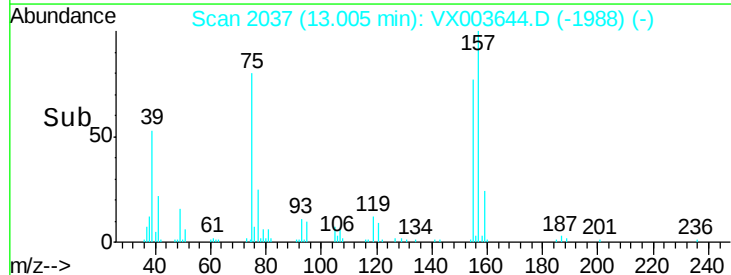
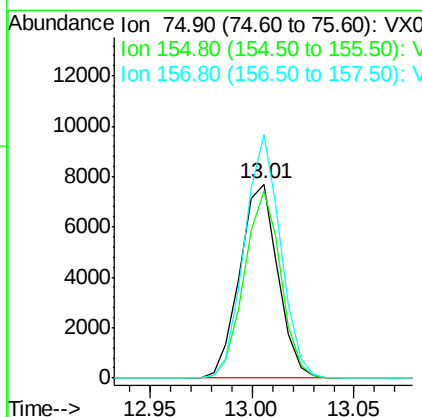
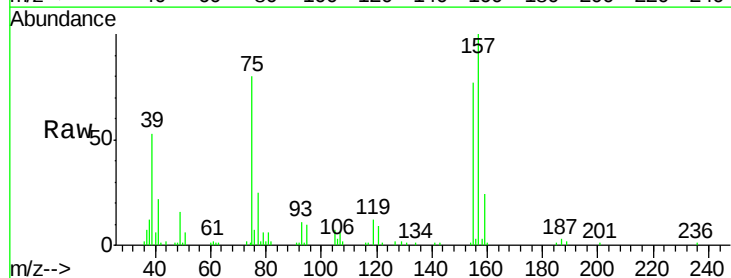
Manual Integrations
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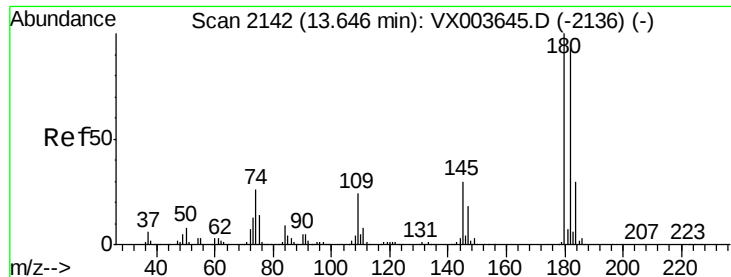
MMDadoda
 8/2/2018 11:54:16 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 24.936 ug/l
 RT: 13.01 min Scan# 2037
 Delta R.T. 0.00 min
 Lab File: VX003644.D
 Acq: 24 Jul 2018 17:08

Tgt Ion	Ratio	Lower	Upper
75	100		
155	92.6	46.1	138.3
157	118.8	59.7	179.0





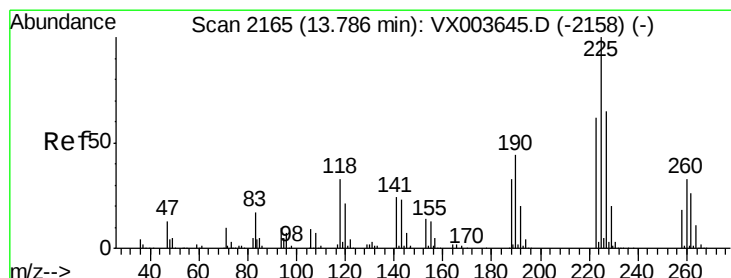
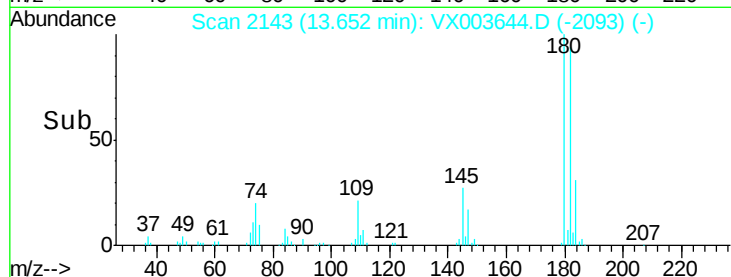
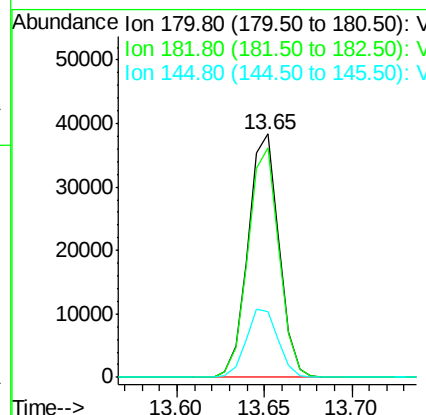
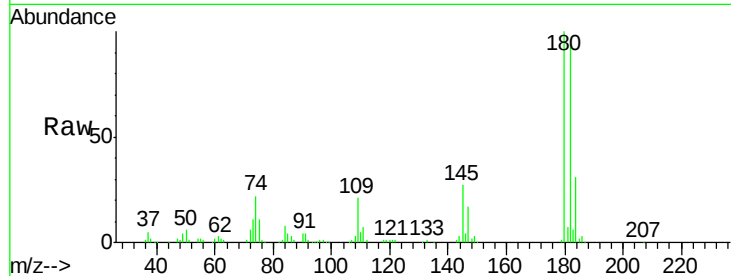
#93
 1,2,4-Trichlorobenzene
 Concen: 18.601 ug/l
 RT: 13.65 min Scan# 2143
 Delta R.T. 0.01 min
 Lab File: VX003644.D
 Acq: 24 Jul 2018 17:08

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.5	47.9	143.8
145	28.8	14.4	43.2

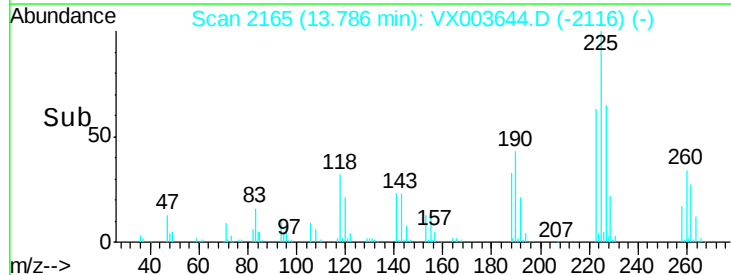
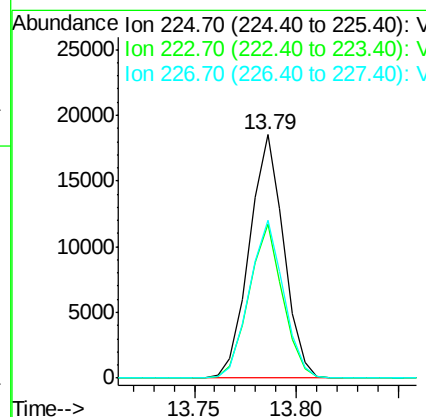
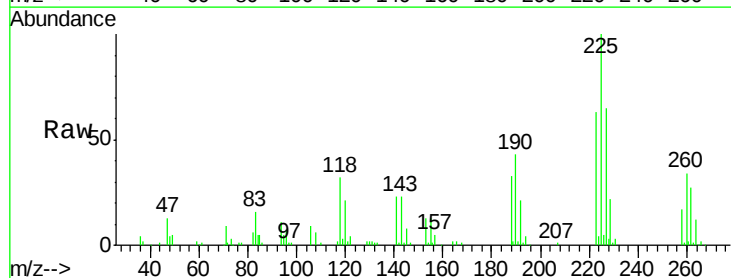
Manual Integrations
 APPROVED

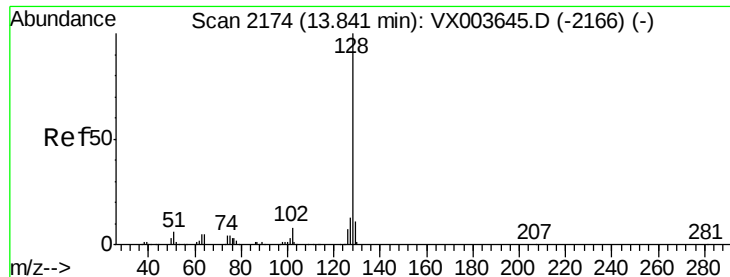
MMDadoda
 8/2/2018 11:54:16 AM



#94
 Hexachlorobutadiene
 Concen: 17.986 ug/l
 RT: 13.79 min Scan# 2165
 Delta R.T. 0.00 min
 Lab File: VX003644.D
 Acq: 24 Jul 2018 17:08

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.9	30.9	92.5
227	64.5	31.9	95.7





#95

Naphthalene

Concen: 21.678 ug/l

RT: 13.83 min Scan# 2173

Delta R.T. -0.01 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

Instrument :

MSVOA_X

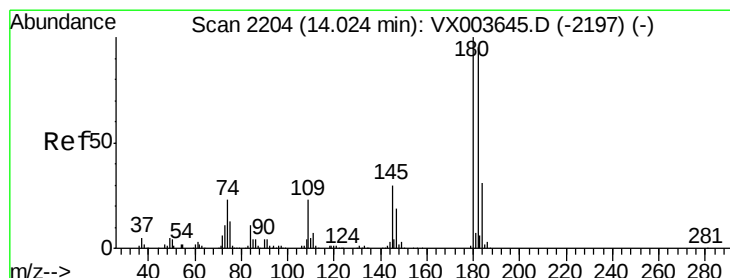
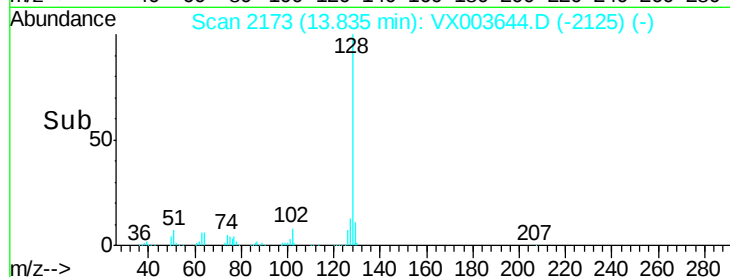
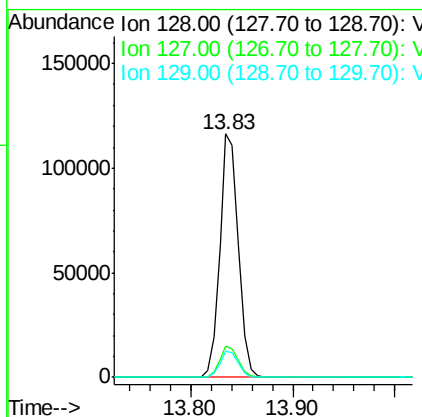
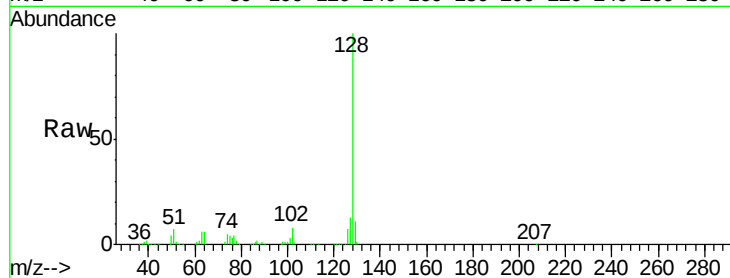
ClientSampleId :

VSTDIC020

Tot Ion:	128	Resp:	147637
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.4	15.6
129	10.8	8.7	13.1

Manual Integrations
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MMDadoda
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#96

1,2,3-Trichlorobenzene

Concen: 19.296 ug/l

RT: 14.02 min Scan# 2204

Delta R.T. 0.00 min

Lab File: VX003644.D

Acq: 24 Jul 2018 17:08

Tgt Ion:	180	Resp:	48595
Ion Ratio	Lower	Upper	
180	100		
182	97.0	47.6	142.8
145	30.4	15.0	45.1

