

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081418\
 Data File : VX004024.D
 Acq On : 14 Aug 2018 11:34
 Operator : JC/MD
 Sample : VSTDIC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 8/15/2018 4:49:51 PM

Quant Time: Aug 14 13:01:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 12:59:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	312050	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	457210	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	425251	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	261053	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	87735	21.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	42.42%	
35) Dibromofluoromethane	5.51	113	67931	19.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	39.22%	
50) Toluene-d8	8.71	98	276668	20.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.08%	
62) 4-Bromofluorobenzene	11.14	95	97649	22.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	44.80%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	62261	19.69	ug/l	99
3) Chloromethane	1.32	50	74332	17.28	ug/l	99
4) Vinyl Chloride	1.40	62	80789	18.83	ug/l	99
5) Bromomethane	1.64	94	42229	15.45	ug/l	99
6) Chloroethane	1.73	64	55581	20.25	ug/l	100
7) Trichlorofluoromethane	1.93	101	110823	19.56	ug/l	98
8) Diethyl Ether	2.18	74	47289	18.57	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	68650	19.39	ug/l	100
10) Methyl Iodide	2.51	142	60804	13.80	ug/l	100
11) Tert butyl alcohol	3.04	59	89283	89.82	ug/l	98
12) 1,1-Dichloroethene	2.38	96	63131	18.85	ug/l	97
13) Acrolein	2.29	56	59742	109.04	ug/l	100
14) Allyl chloride	2.73	41	121019	18.74	ug/l	98
15) Acrylonitrile	3.14	53	215501	90.86	ug/l	100
16) Acetone	2.43	43	224317	91.15	ug/l	99
17) Carbon Disulfide	2.57	76	177363	17.36	ug/l	100
18) Methyl Acetate	2.77	43	95874	17.89	ug/l	98
19) Methyl tert-butyl Ether	3.20	73	222735	18.77	ug/l	98
20) Methylene Chloride	2.86	84	77712	13.03	ug/l	96
21) trans-1,2-Dichloroethene	3.17	96	72361	19.03	ug/l	94
22) Diisopropyl ether	3.87	45	236229	19.90	ug/l	99
23) Vinyl Acetate	3.82	43	997670	101.03	ug/l	99
24) 1,1-Dichloroethane	3.70	63	134815	19.12	ug/l	100
25) 2-Butanone	4.69	43	366086	98.94	ug/l	100
26) 2,2-Dichloropropane	4.59	77	106606	20.97	ug/l	99
27) cis-1,2-Dichloroethene	4.60	96	81669	19.79	ug/l	98
28) Bromochloromethane	5.03	49	65493	21.71	ug/l	96
29) Tetrahydrofuran	5.15	42	182310	95.87	ug/l	99
30) Chloroform	5.22	83	132493	19.96	ug/l	100
31) Cyclohexane	5.58	56	115126	19.31	ug/l	97
32) 1,1,1-Trichloroethane	5.50	97	111032	19.95	ug/l	98
36) 1,1-Dichloropropene	5.81	75	101818	19.88	ug/l	98
37) Ethyl Acetate	4.85	43	110769	19.66	ug/l	99
38) Carbon Tetrachloride	5.78	117	98061	20.12	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	111977	18.55	ug/l	98
40) Benzene	6.15	78	307381	19.99	ug/l	100
41) Methacrylonitrile	5.06	41	60855	19.62	ug/l	99
42) 1,2-Dichloroethane	6.20	62	108126	20.80	ug/l	99
43) Isopropyl Acetate	6.46	43	160592	18.94	ug/l	99
44) Trichloroethene	7.21	130	81753	19.44	ug/l	95
45) 1,2-Dichloropropane	7.52	63	78780	19.84	ug/l	99
46) Dibromomethane	7.67	93	51350	19.92	ug/l	98
47) Bromodichloromethane	7.90	83	95071	19.58	ug/l	99
48) Methyl methacrylate	7.78	41	82548	19.16	ug/l	99
49) 1,4-Dioxane	7.76	88	38217	376.50	ug/l	97
51) 4-Methyl-2-Pentanone	8.65	43	690420	98.26	ug/l	99
52) Toluene	8.79	92	195992	20.17	ug/l	99
53) t-1,3-Dichloropropene	9.04	75	102831	18.73	ug/l	99
54) cis-1,3-Dichloropropene	8.44	75	115652	19.54	ug/l	98
55) 1,1,2-Trichloroethane	9.22	97	79328	19.98	ug/l	97
56) Ethyl methacrylate	9.18	69	105457	18.31	ug/l	99
57) 1,3-Dichloropropane	9.37	76	133272	20.06	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.32	63	295226	104.23	ug/l	100
59) 2-Hexanone	9.50	43	520830	99.17	ug/l	99
60) Dibromochloromethane	9.59	129	74985	20.26	ug/l	100
61) 1,2-Dibromoethane	9.68	107	82046	20.64	ug/l	99
64) Tetrachloroethene	9.34	164	78971	18.88	ug/l	96
65) Chlorobenzene	10.14	112	213122	19.26	ug/l	94
66) 1,1,1,2-Tetrachloroethane	10.22	131	72543	19.07	ug/l	97
67) Ethyl Benzene	10.26	91	345116	19.05	ug/l	96
68) m/p-Xylenes	10.36	106	278490	39.35	ug/l	100
69) o-Xylene	10.70	106	125930	18.85	ug/l	91
70) Styrene	10.71	104	228142	20.86	ug/l	96
71) Bromoform	10.86	173	55311	19.44	ug/l #	99
73) Isopropylbenzene	11.02	105	364625	18.88	ug/l	97
74) N-amyl acetate	6.46	43	160592	15.99	ug/l #	99
75) 1,1,2,2-Tetrachloroethane	11.27	83	120932	18.27	ug/l	99
76) 1,2,3-Trichloropropane	11.30	75	105286m	18.26	ug/l	
77) Bromobenzene	11.26	156	96513	18.73	ug/l	99
78) n-propylbenzene	11.36	91	407175	18.78	ug/l	99
79) 2-Chlorotoluene	11.42	91	248351	18.78	ug/l	99
80) 1,3,5-Trimethylbenzene	11.51	105	303077	19.25	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.07	75	31616	16.71	ug/l	94
82) 4-Chlorotoluene	11.51	91	288155	18.60	ug/l	100
83) tert-Butylbenzene	11.77	119	292253	18.87	ug/l	99
84) 1,2,4-Trimethylbenzene	11.81	105	315328	19.92	ug/l	100
85) sec-Butylbenzene	11.95	105	350258	19.16	ug/l	98
86) p-Isopropyltoluene	12.07	119	318937	19.44	ug/l	99
87) 1,3-Dichlorobenzene	12.02	146	179011	18.80	ug/l	99
88) 1,4-Dichlorobenzene	12.10	146	184429	18.67	ug/l	99
89) n-Butylbenzene	12.39	91	231094	16.17	ug/l	100
90) Hexachloroethane	12.60	117	42331	15.89	ug/l	98
91) 1,2-Dichlorobenzene	12.40	146	160125	16.96	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.00	75	20532	15.14	ug/l	97

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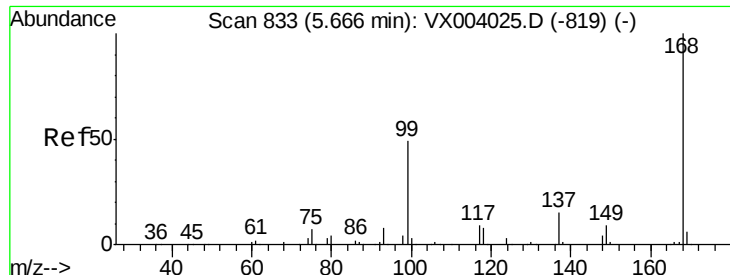
Manual Integrations
APPROVED

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8/15/2018 4:49:51 PM

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081418W.M
Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	110346	16.25	ug/l	99
94) Hexachlorobutadiene	13.79	225	54164	17.03	ug/l	100
95) Naphthalene	13.83	128	332219	17.09	ug/l	99
96) 1,2,3-Trichlorobenzene	14.02	180	125726	18.56	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX004024.D

Acq: 14 Aug 2018 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 312050

Ion Ratio Lower Upper

168 100

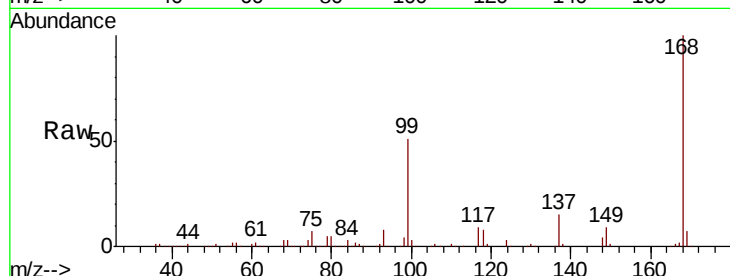
99 50.9 40.1 60.1

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

60000

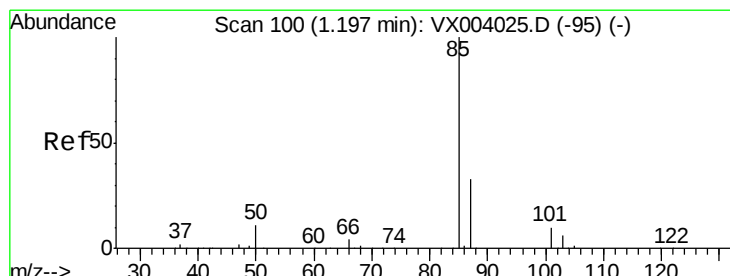
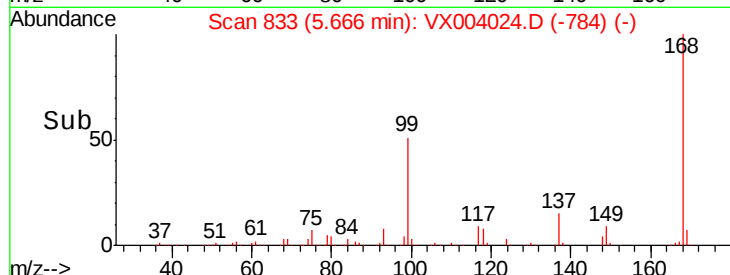
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 19.69 ug/l

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX004024.D

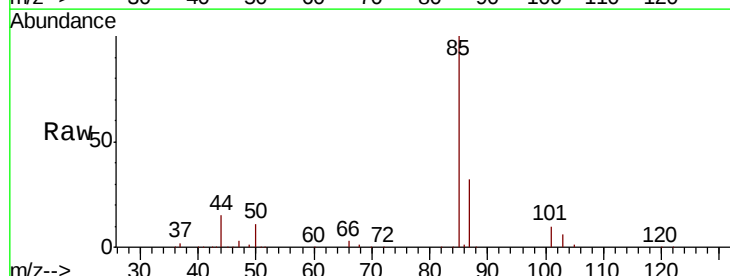
Acq: 14 Aug 2018 11:34

Tgt Ion: 85 Resp: 62261

Ion Ratio Lower Upper

85 100

87 32.4 16.0 48.0



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

60000

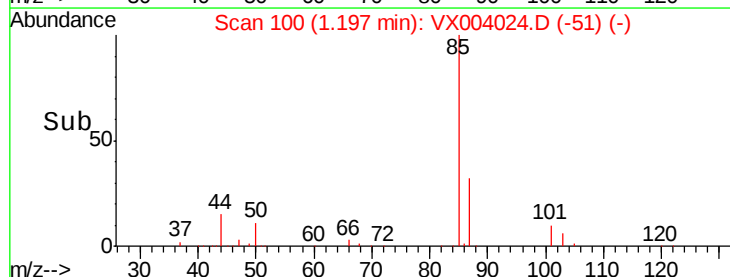
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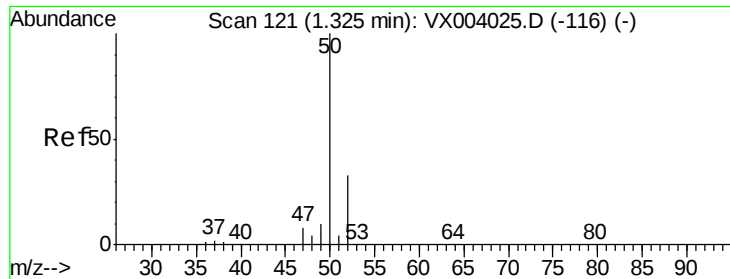
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Time-->

1.15 1.20 1.25 1.30





#3

Chloromethane

Concen: 17.28 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX004024.D

Acq: 14 Aug 2018 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 74332

Ion Ratio Lower Upper

50 100

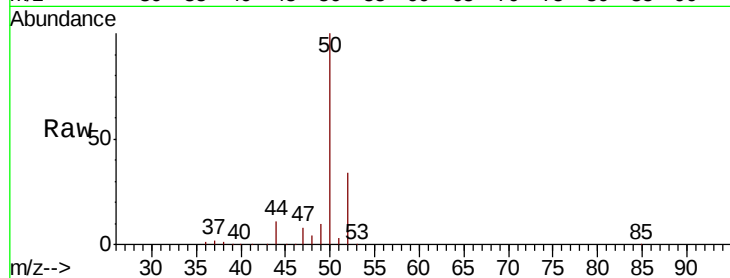
52 33.8 26.6 39.8

Manual Integrations

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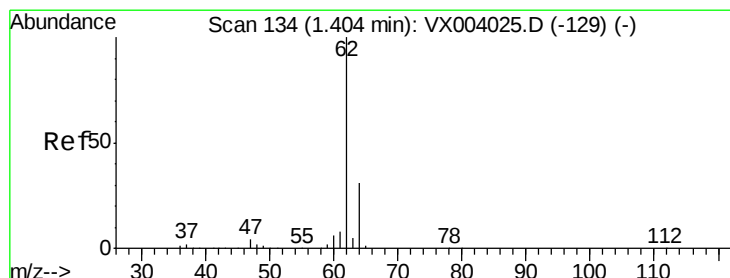
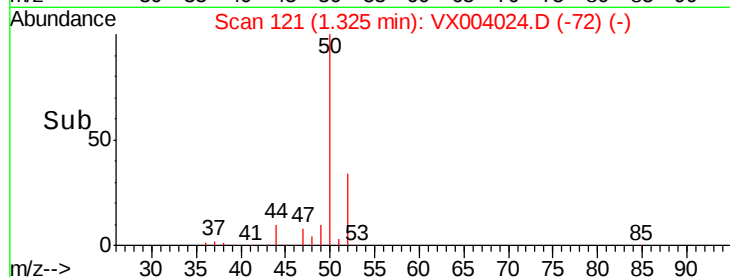
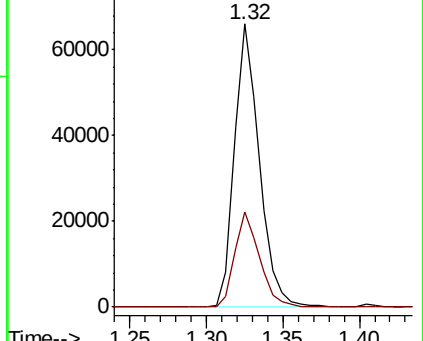
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Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 18.83 ug/l

RT: 1.40 min Scan# 134

Delta R.T. 0.00 min

Lab File: VX004024.D

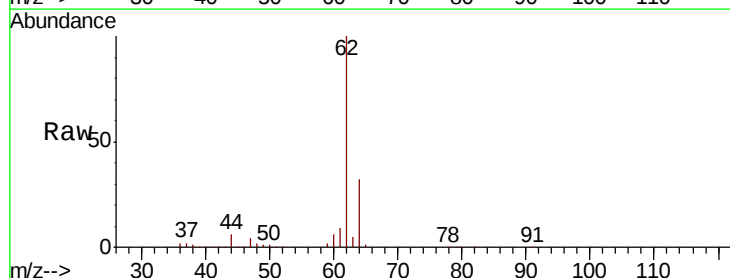
Acq: 14 Aug 2018 11:34

Tgt Ion: 62 Resp: 80789

Ion Ratio Lower Upper

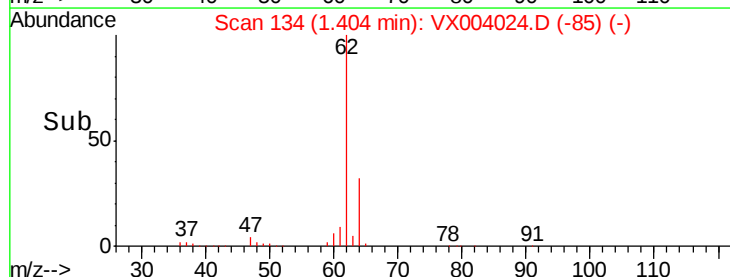
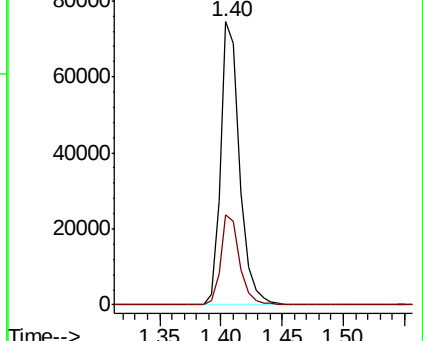
62 100

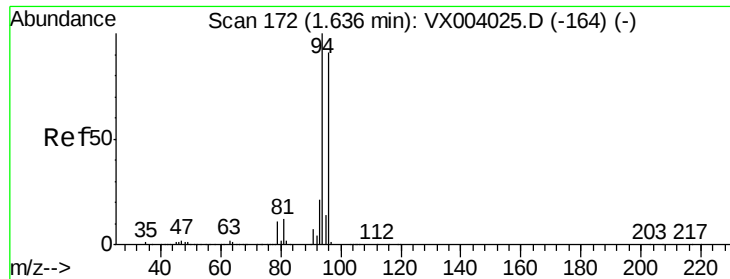
64 31.8 26.0 39.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 15.45 ug/l

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX004024.D

Acq: 14 Aug 2018 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion: 94 Resp: 42229

Ion Ratio Lower Upper

94 100

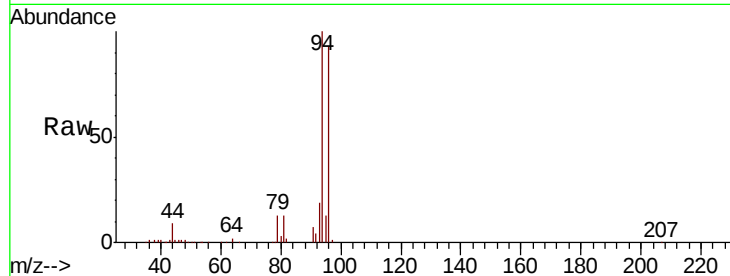
96 92.7 75.2 112.8

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

40000

30000

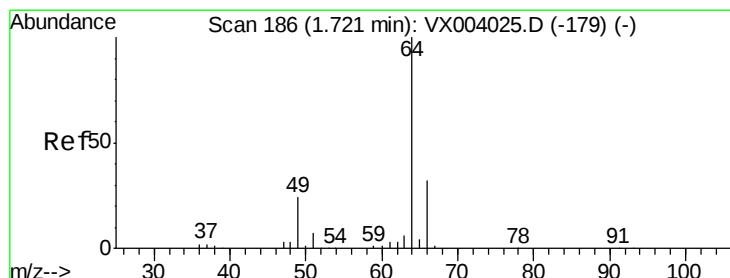
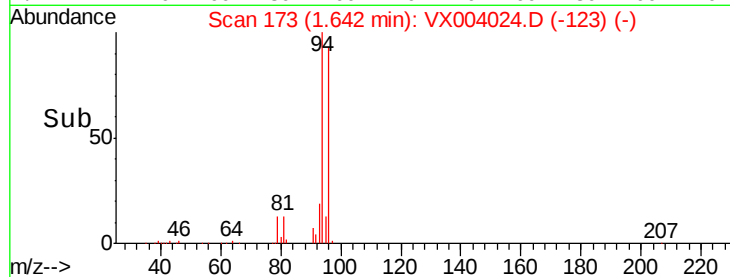
20000

10000

0

1.64

Time-->



#6

Chloroethane

Concen: 20.25 ug/l

RT: 1.73 min Scan# 187

Delta R.T. 0.01 min

Lab File: VX004024.D

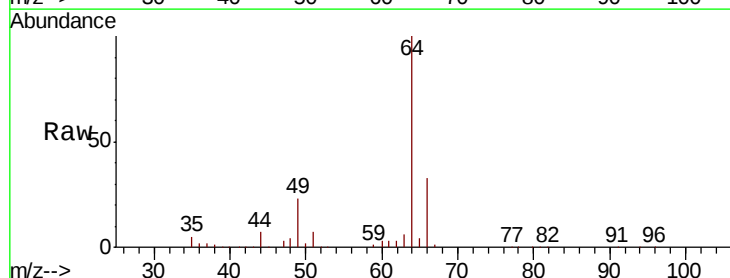
Acq: 14 Aug 2018 11:34

Tgt Ion: 64 Resp: 55581

Ion Ratio Lower Upper

64 100

66 33.3 26.5 39.7



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

40000

30000

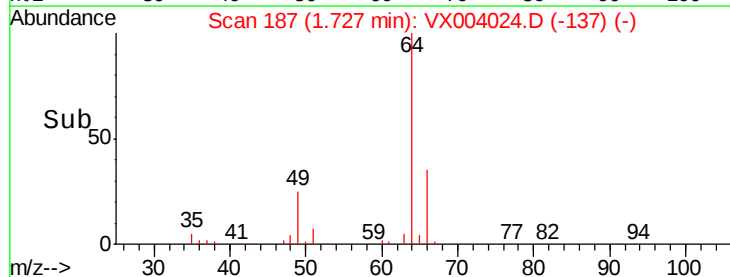
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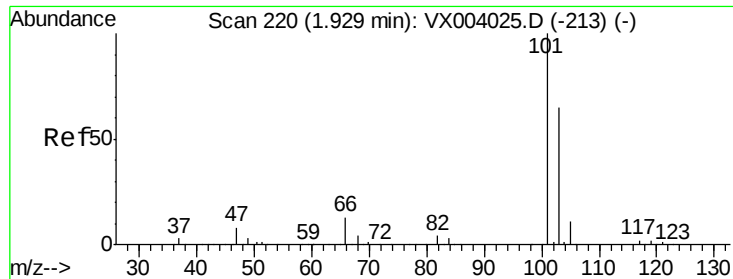
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0

1.73

Time-->





#7

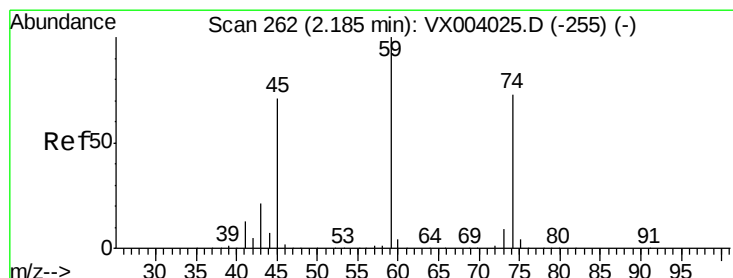
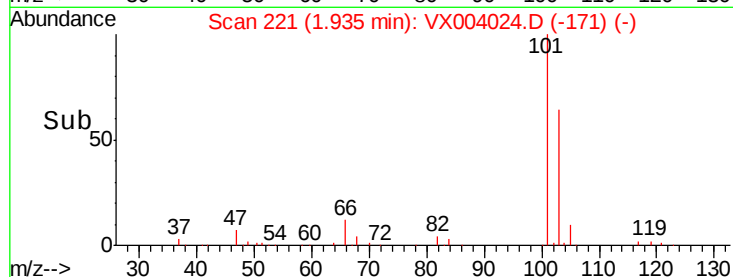
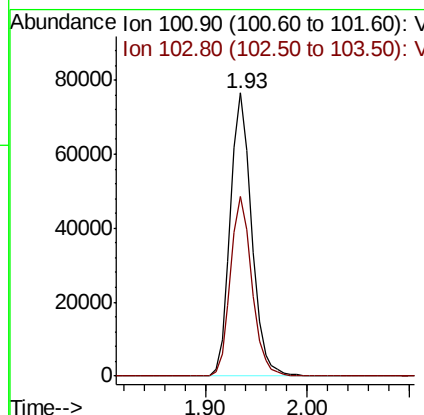
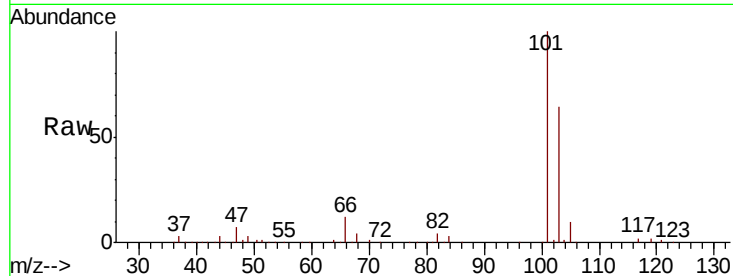
Trichlorofluoromethane
 Concen: 19.56 ug/l
 RT: 1.93 min Scan# 221
 Delta R.T. 0.01 min
 Lab File: VX004024.D
 Acq: 14 Aug 2018 11:34

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Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		110823		
103	63.7	52.3	78.5		

Manual Integrations
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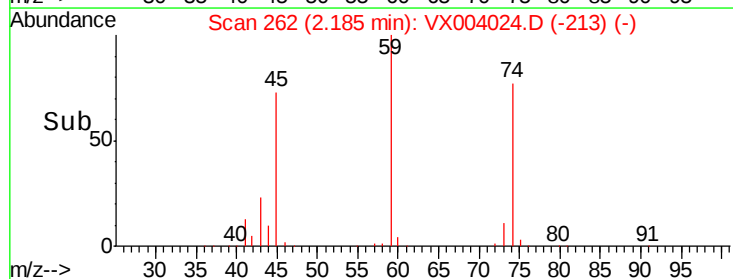
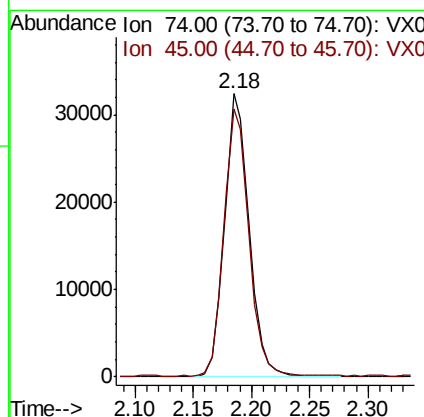
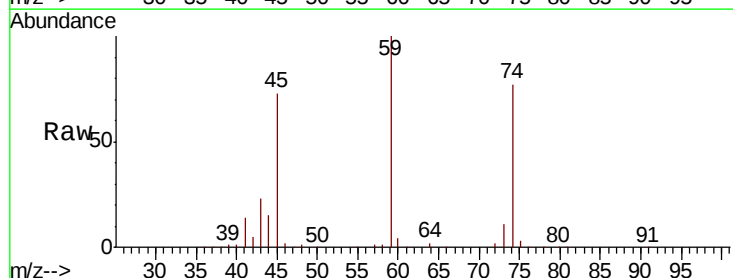
MMDadoda
 8/15/2018 4:49:51 PM

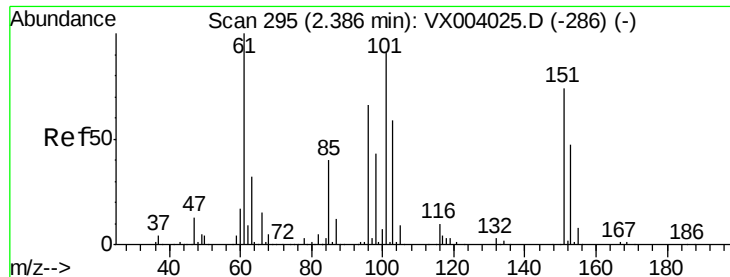


#8

Diethyl Ether
 Concen: 18.57 ug/l
 RT: 2.18 min Scan# 262
 Delta R.T. 0.00 min
 Lab File: VX004024.D
 Acq: 14 Aug 2018 11:34

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		47289		
45	96.0	48.3	144.9		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.39 ug/l

RT: 2.39 min Scan# 295

Delta R.T. 0.00 min

Lab File: VX004024.D

Acq: 14 Aug 2018 11:34

Instrument :

MSVOA_X

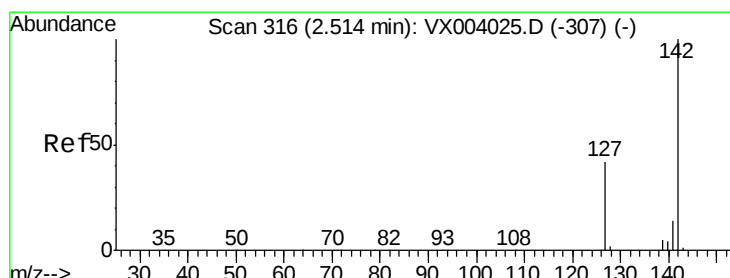
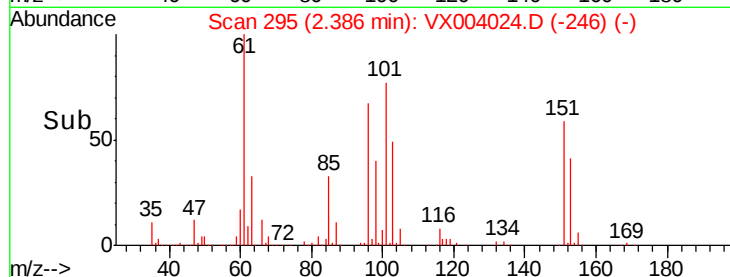
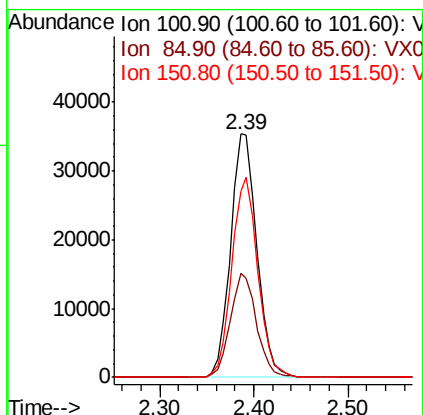
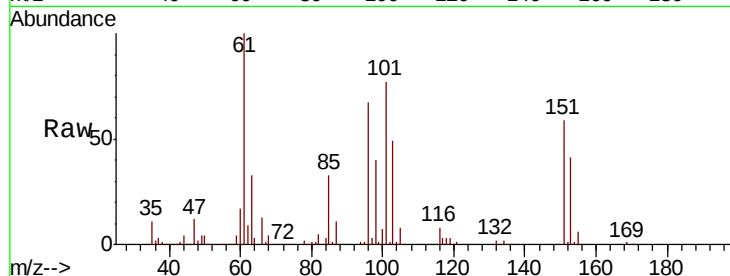
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	68650
Ion Ratio	Lower	Upper	
101	100		
85	42.5	34.2	51.4
151	81.4	65.0	97.4

Manual Integrations
APPROVED

MMDadoda
8/15/2018 4:49:51 PM



#10

Methyl Iodide

Concen: 13.80 ug/l

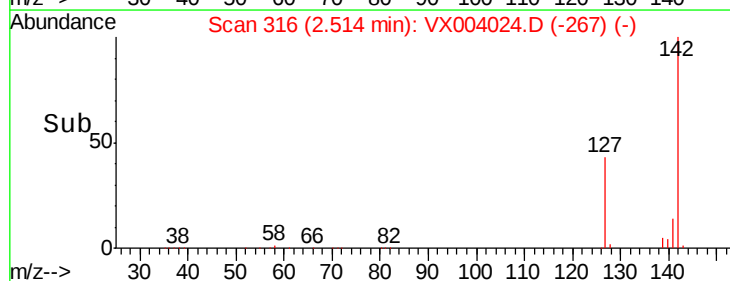
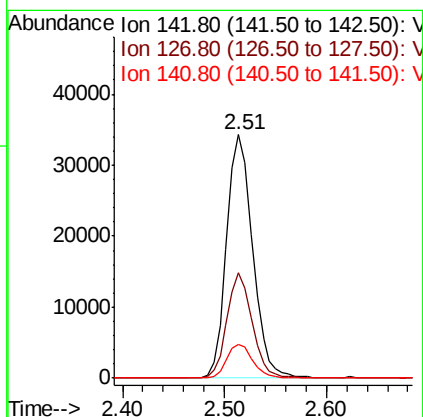
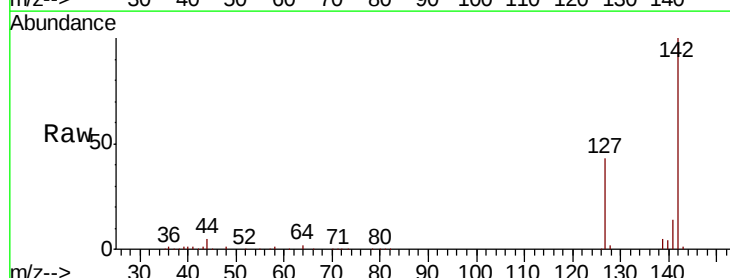
RT: 2.51 min Scan# 316

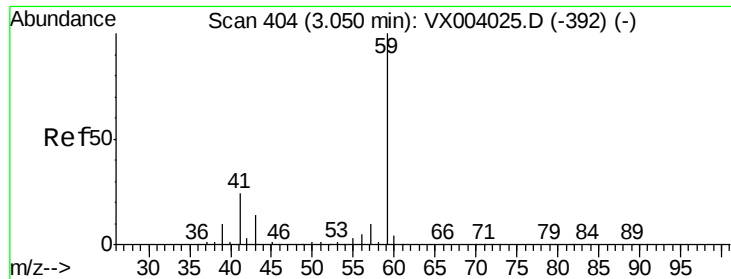
Delta R.T. 0.00 min

Lab File: VX004024.D

Acq: 14 Aug 2018 11:34

Tgt Ion:	142	Resp:	60804
Ion Ratio	Lower	Upper	
142	100		
127	41.6	33.1	49.7
141	13.9	11.1	16.7





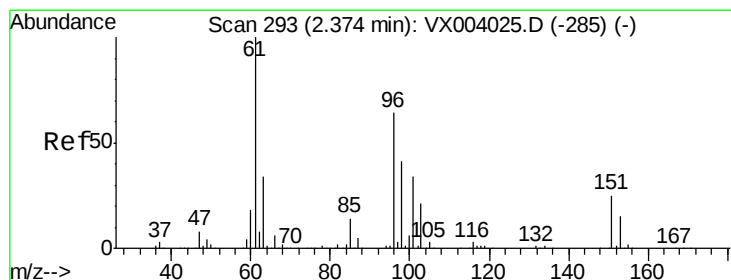
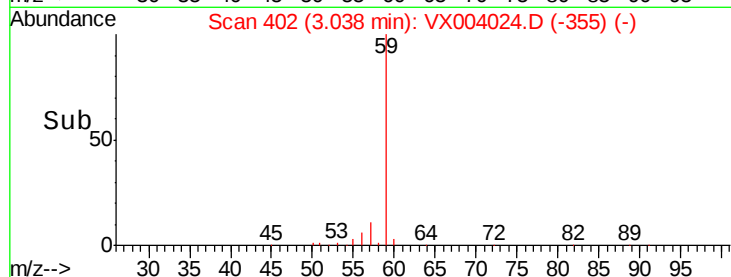
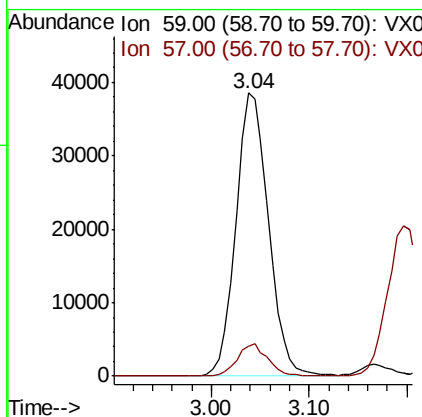
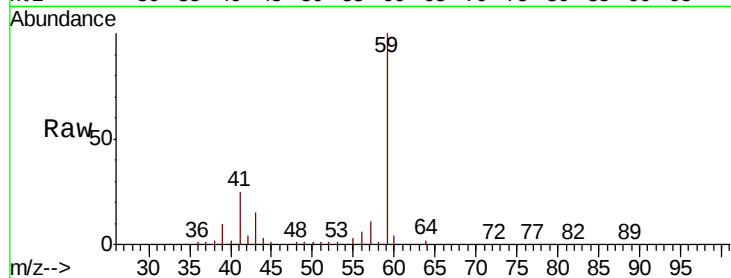
#11
Tert butyl alcohol
Concen: 89.82 ug/l
RT: 3.04 min Scan# 402
Delta R.T. -0.01 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.1	12.1

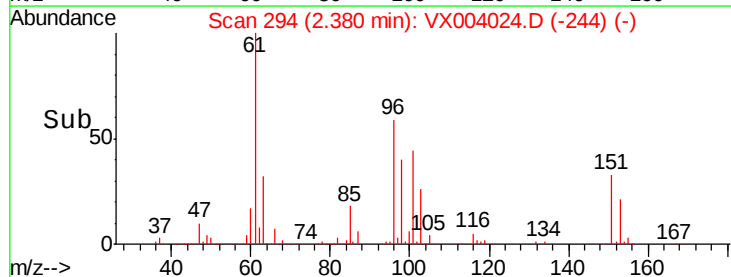
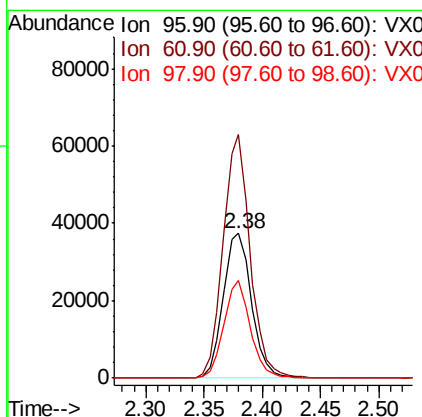
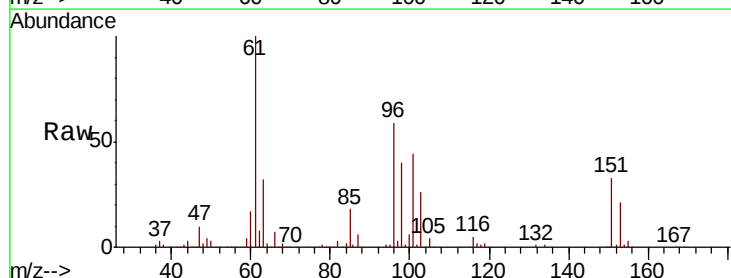
Manual Integrations
APPROVED

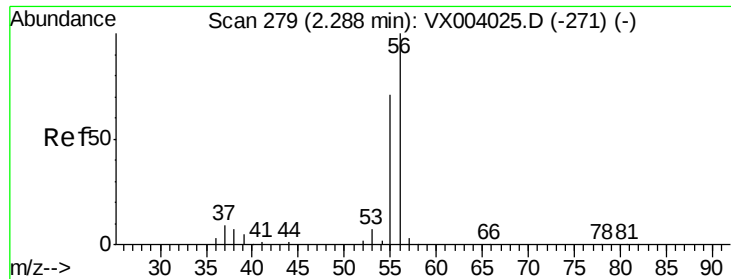
MMDadoda
8/15/2018 4:49:51 PM



#12
1,1-Dichloroethene
Concen: 18.85 ug/l
RT: 2.38 min Scan# 294
Delta R.T. 0.01 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Tgt Ion	Ratio	Lower	Upper
96	100		
61	168.3	131.3	196.9
98	67.5	51.8	77.6





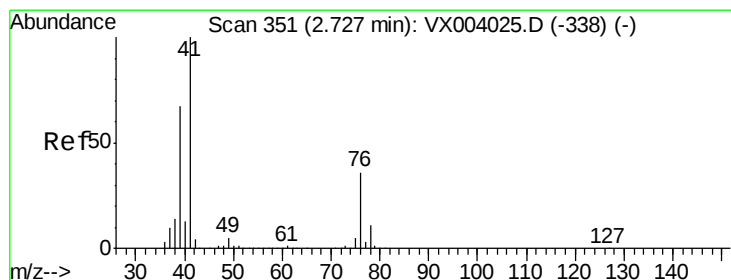
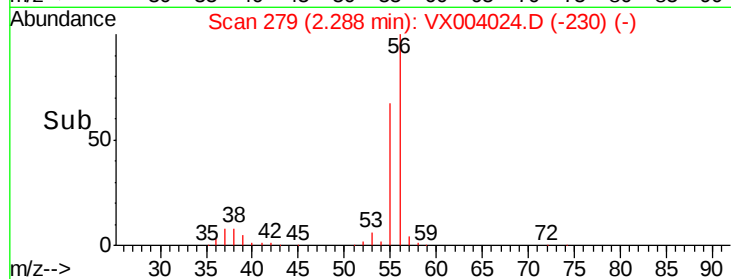
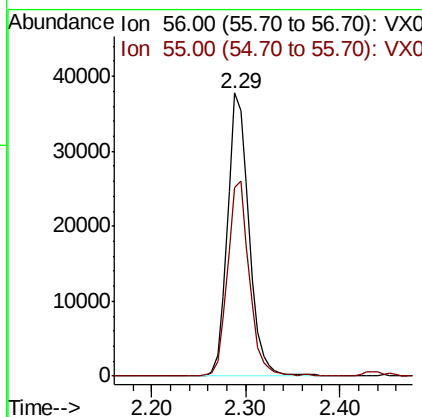
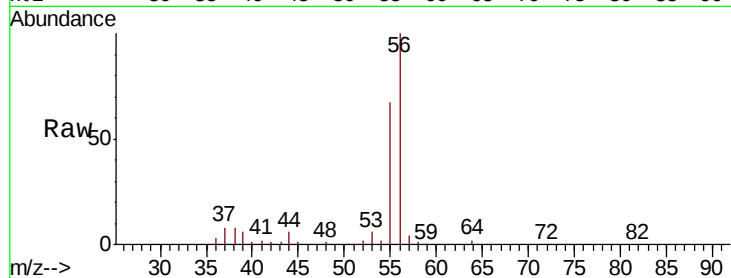
#13
Acrolein
Concen: 109.04 ug/l
RT: 2.29 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	56	55	Ratio	Lower	Upper
56	100				
55	70.3		56.1	84.1	

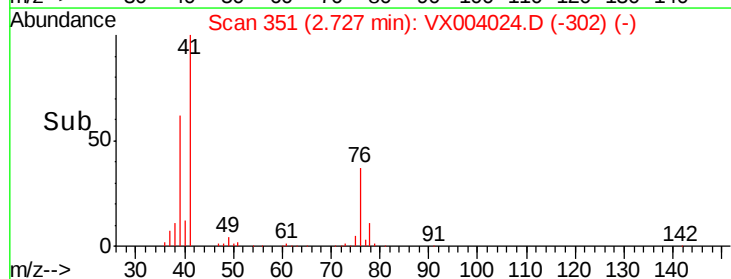
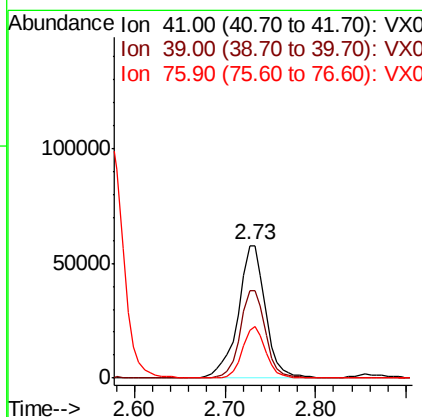
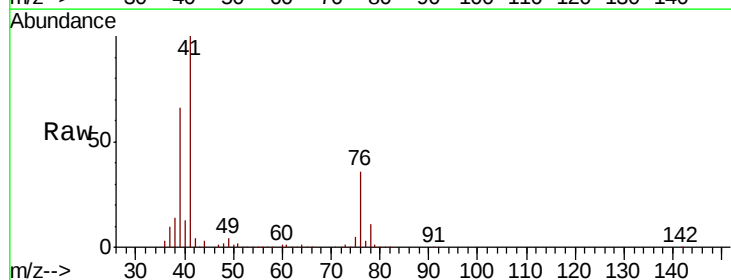
Manual Integrations
APPROVED

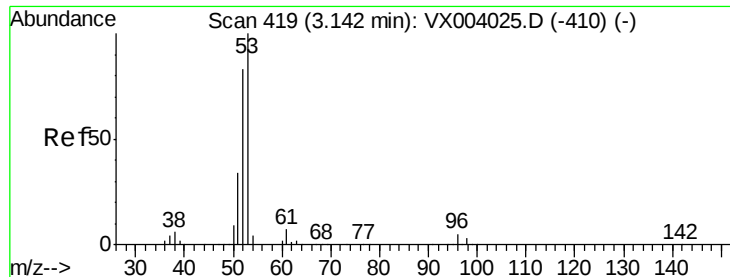
MMDadoda
8/15/2018 4:49:51 PM



#14
Allyl chloride
Concen: 18.74 ug/l
RT: 2.73 min Scan# 351
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Tgt Ion	41	39	76	Ratio	Lower	Upper
41	100					
39	61.1			47.4	71.0	
76	33.1			26.0	39.0	





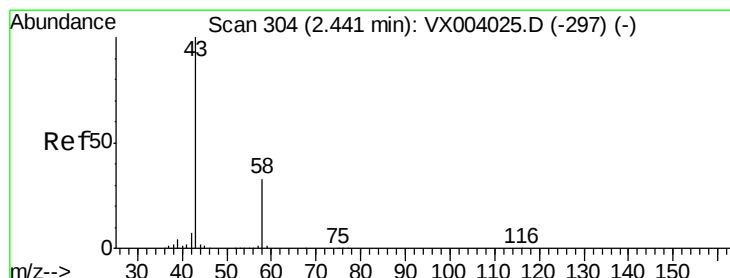
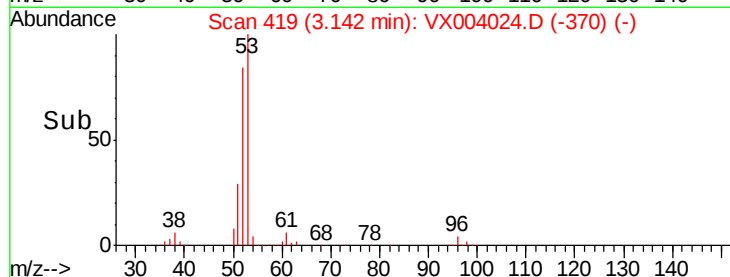
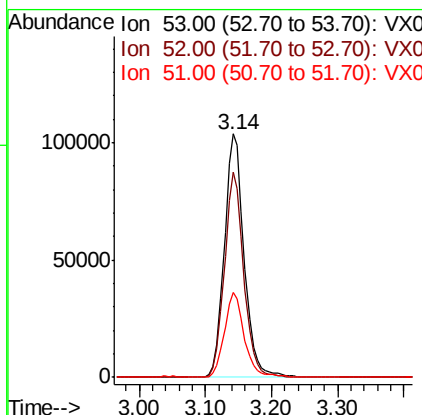
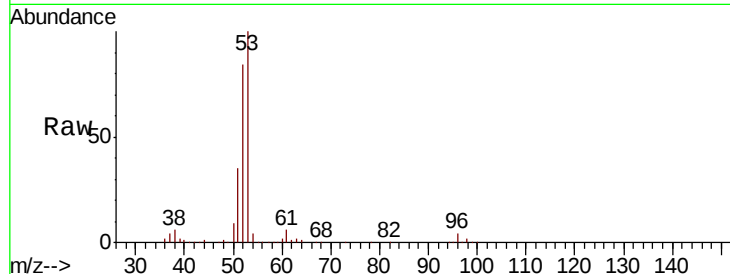
#15
 Acrylonitrile
 Concen: 90.86 ug/l
 RT: 3.14 min Scan# 419
 Delta R.T. 0.00 min
 Lab File: VX004024.D
 Acq: 14 Aug 2018 11:34

Instrument :
 MSVOA_X
 ClientSampled :
 VSTDIC020

Tot Ion:	53	Resp:	215501
Ion Ratio	Lower	Upper	
53	100		
52	81.8	65.3	97.9
51	35.1	27.9	41.9

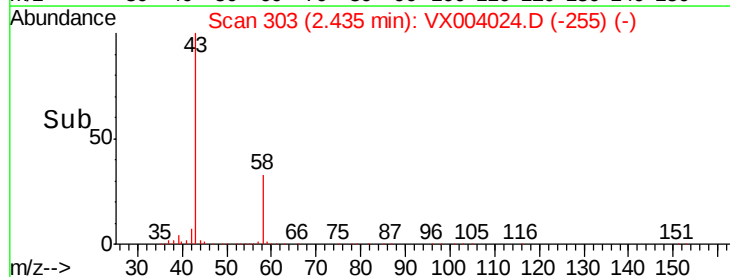
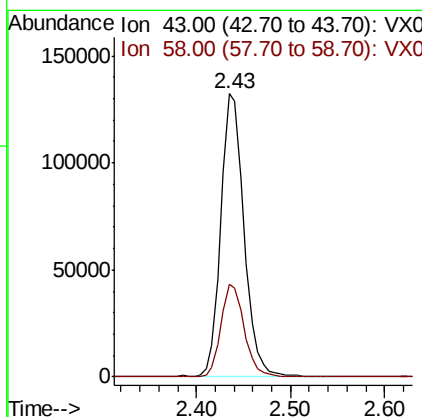
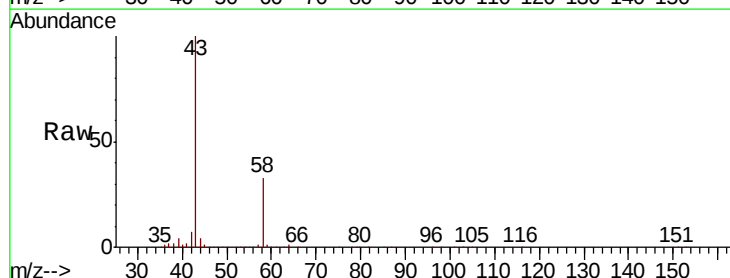
Manual Integrations
 APPROVED

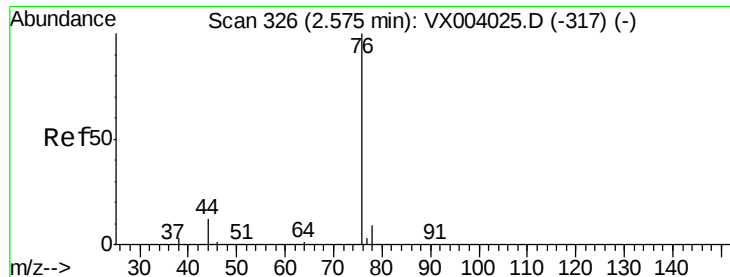
MMDadoda
 8/15/2018 4:49:51 PM



#16
 Acetone
 Concen: 91.15 ug/l
 RT: 2.43 min Scan# 303
 Delta R.T. -0.01 min
 Lab File: VX004024.D
 Acq: 14 Aug 2018 11:34

Tgt Ion:	43	Resp:	224317
Ion Ratio	Lower	Upper	
43	100		
58	32.5	26.4	39.6





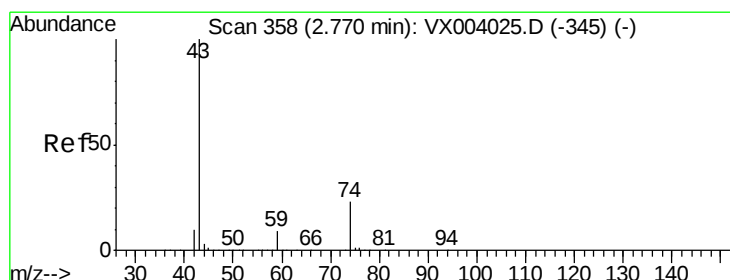
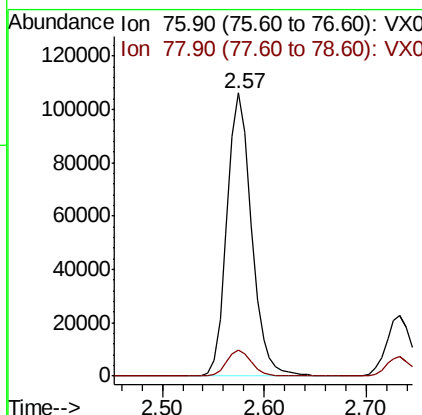
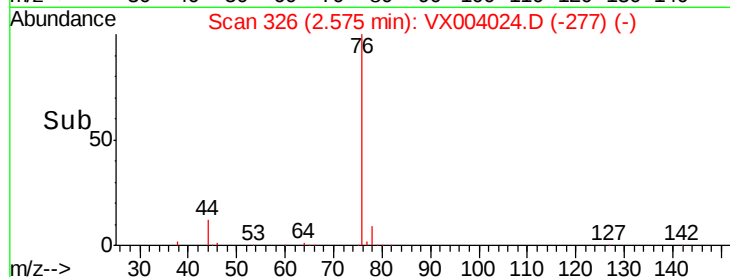
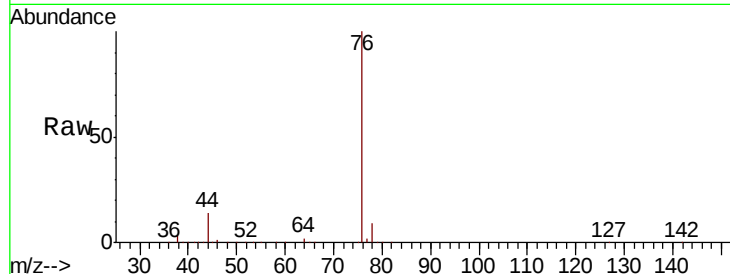
#17
Carbon Disulfide
Concen: 17.36 ug/l
RT: 2.57 min Scan# 326
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.5	11.3

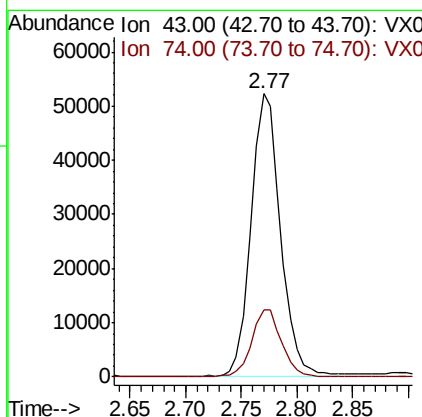
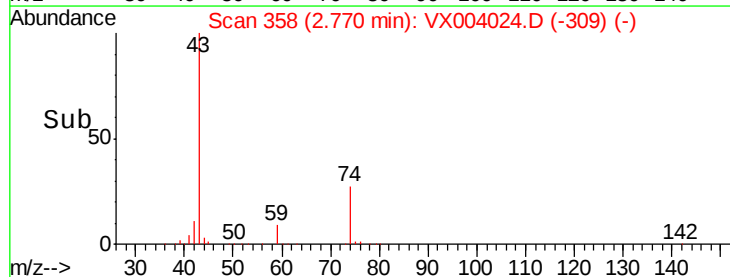
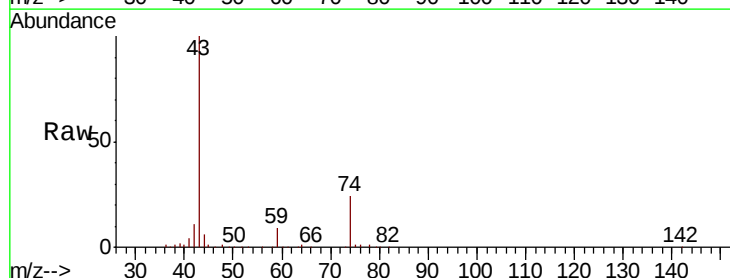
Manual Integrations
APPROVED

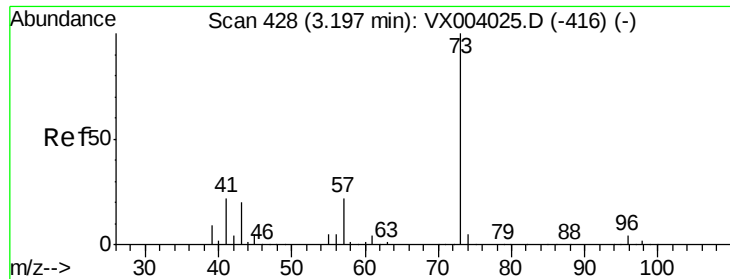
MMDadoda
8/15/2018 4:49:51 PM



#18
Methyl Acetate
Concen: 17.89 ug/l
RT: 2.77 min Scan# 358
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.4	18.9	28.3





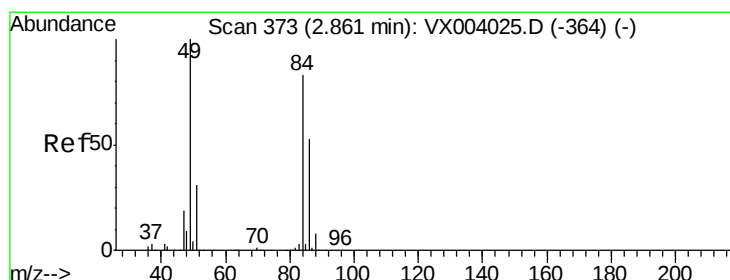
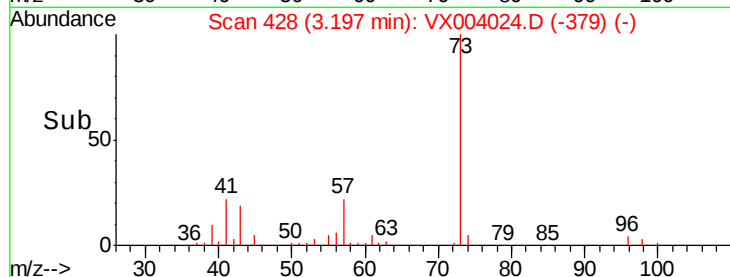
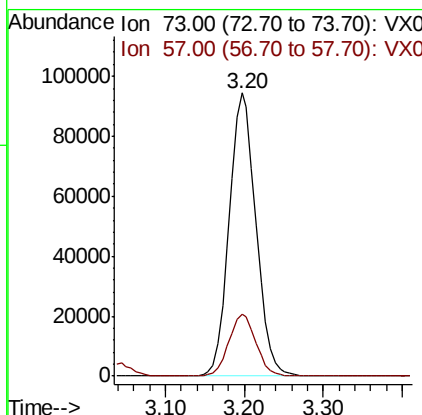
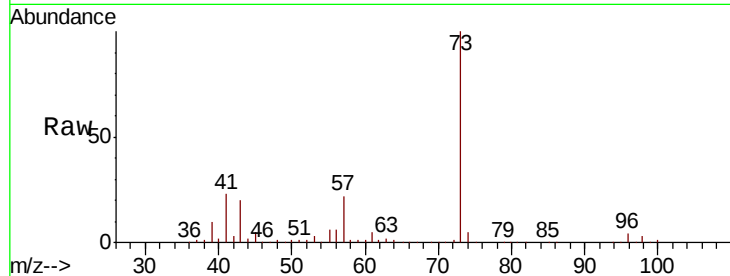
#19
Methvl tert-butvl Ether
Concen: 18.77 ug/l
RT: 3.20 min Scan# 428
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion: 73 Resp: 222735
Ion Ratio Lower Upper
73 100
57 21.8 18.0 27.0

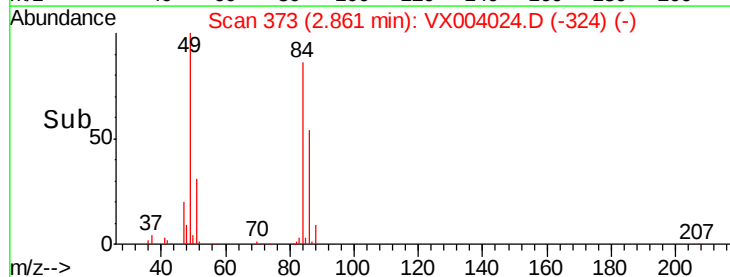
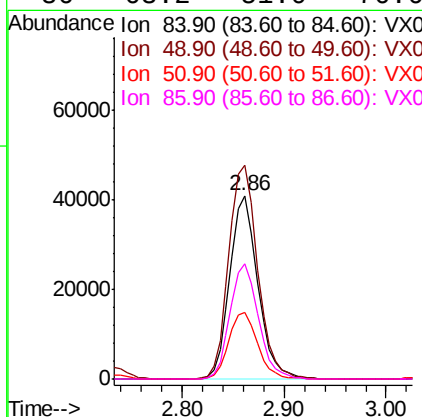
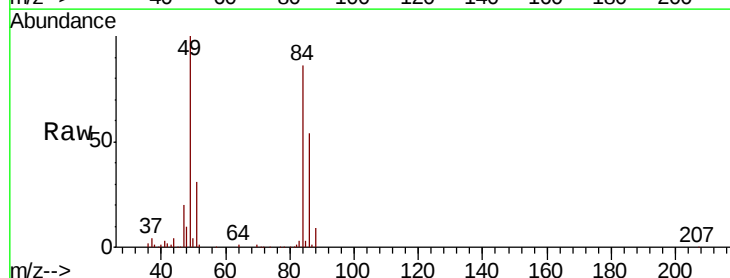
Manual Integrations
APPROVED

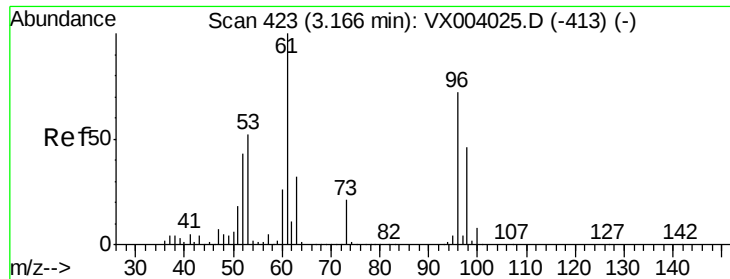
MMDadoda
8/15/2018 4:49:51 PM



#20
Methylene Chloride
Concen: 13.03 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Tgt Ion: 84 Resp: 77712
Ion Ratio Lower Upper
84 100
49 116.6 98.9 148.3
51 36.2 29.9 44.9
86 63.2 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 19.03 ug/l

RT: 3.17 min Scan# 423

Delta R.T. 0.00 min

Lab File: VX004024.D

Acq: 14 Aug 2018 11:34

Instrument :

MSVOA_X

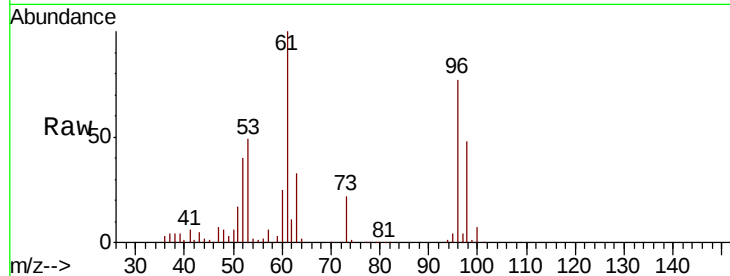
ClientSampleId :

VSTDIC020

Tot Ion:	96	Resp:	72361
Ion	Ratio	Lower	Upper
96	100		
61	130.6	111.8	167.6
98	62.1	51.8	77.6

Manual Integrations
APPROVED

MMDadoda
8/15/2018 4:49:51 PM

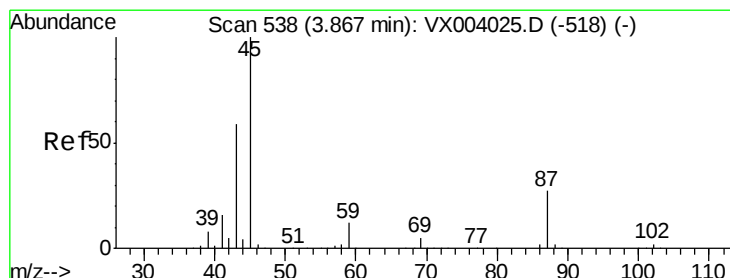
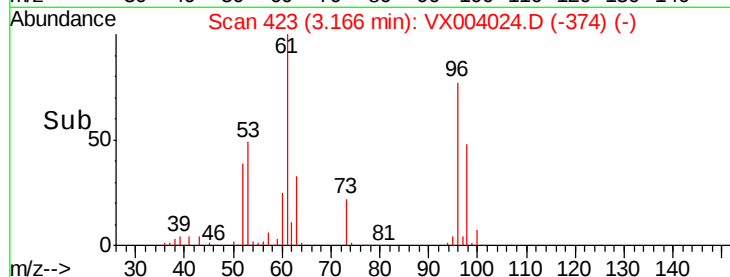
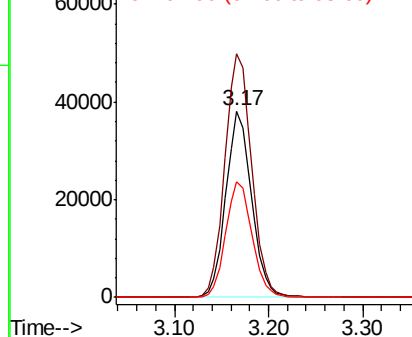


Abundance

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: 19.90 ug/l

RT: 3.87 min Scan# 538

Delta R.T. 0.00 min

Lab File: VX004024.D

Acq: 14 Aug 2018 11:34

Tgt Ion:	45	Resp:	236229
Ion	Ratio	Lower	Upper
45	100		
43	57.6	45.3	67.9
87	27.5	22.7	34.1
59	11.4	9.6	14.4

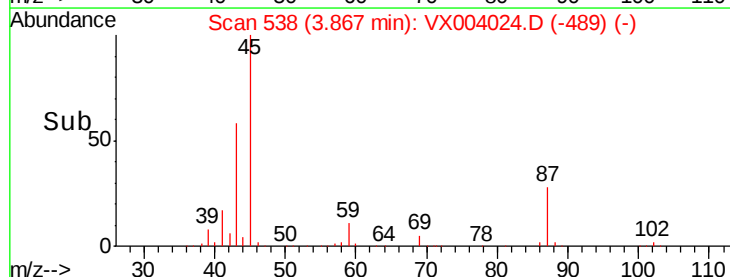
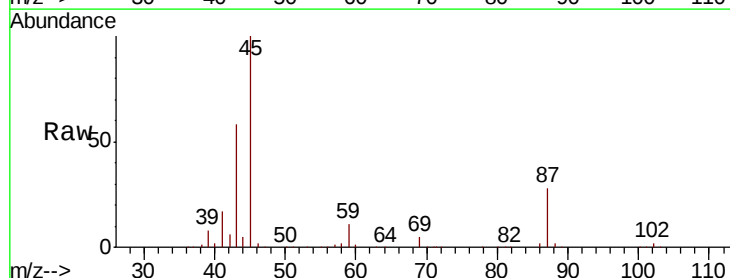
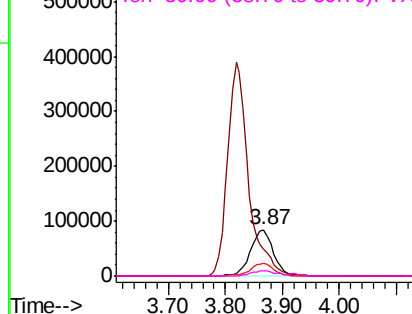
Abundance

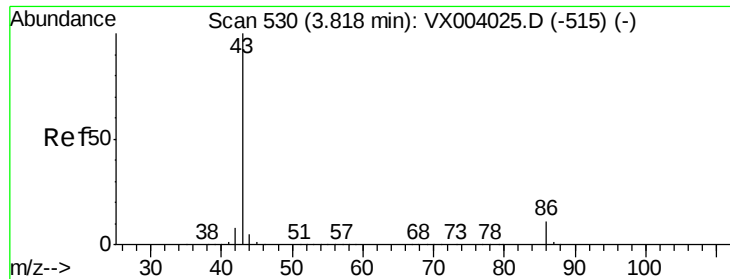
Ion 45.00 (44.70 to 45.70): VX0

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: 101.03 ug/l

RT: 3.82 min Scan# 530

Delta R.T. 0.00 min

Lab File: VX004024.D

Acq: 14 Aug 2018 11:34

Instrument :

MSVOA_X

ClientSampled :

VSTDIC020

Tot Ion: 43 Resp: 997670

Ion Ratio Lower Upper

43 100

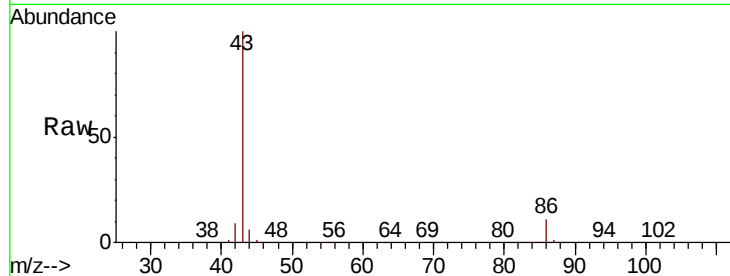
86 10.8 8.9 13.3

Manual Integrations

APPROVED

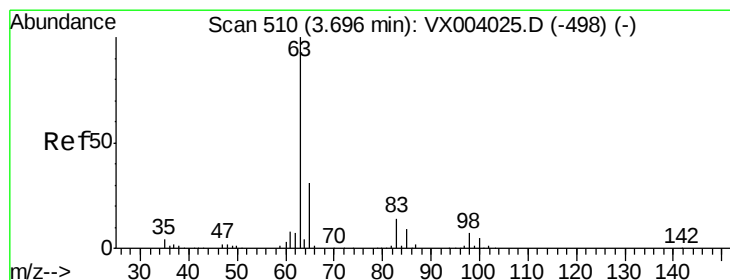
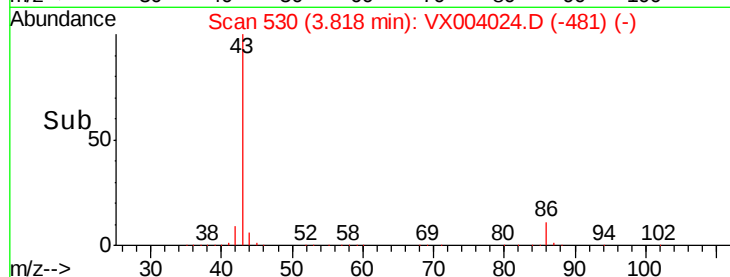
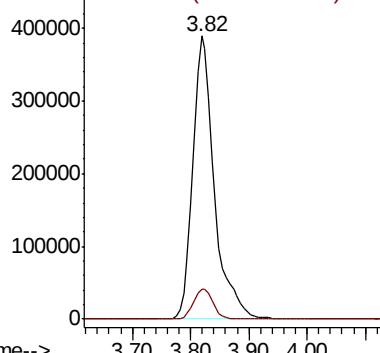
MMDadoda

8/15/2018 4:49:51 PM



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0



#24

1,1-Dichloroethane

Concen: 19.12 ug/l

RT: 3.70 min Scan# 511

Delta R.T. 0.01 min

Lab File: VX004024.D

Acq: 14 Aug 2018 11:34

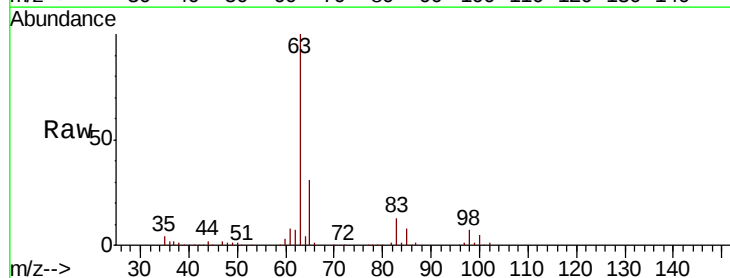
Tgt Ion: 63 Resp: 134815

Ion Ratio Lower Upper

63 100

98 7.0 3.5 10.5

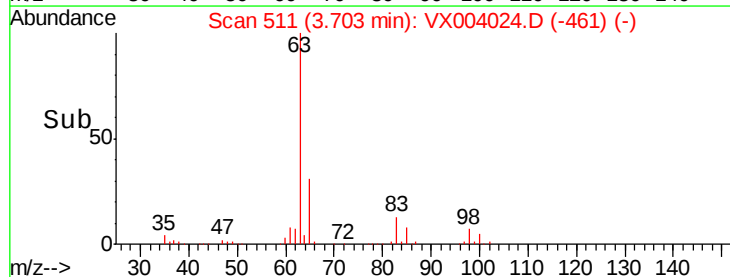
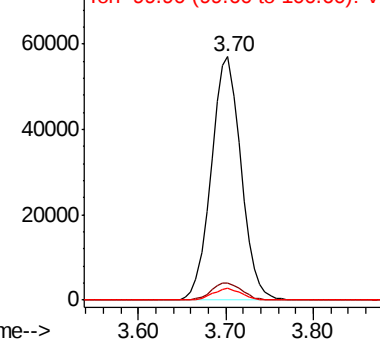
100 4.8 2.3 6.8

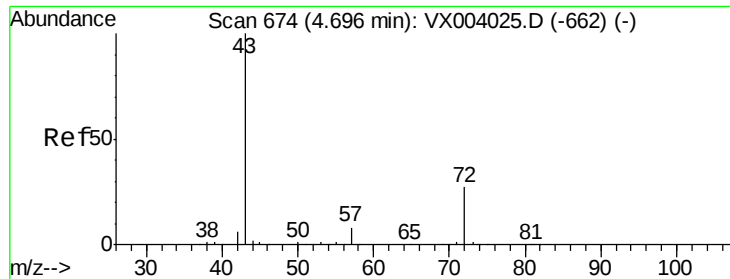


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0





#25

2-Butanone

Concen: 98.94 ug/l

RT: 4.69 min Scan# 673

Delta R.T. -0.01 min

Lab File: VX004024.D

Acq: 14 Aug 2018 11:34

Instrument :

MSVOA_X

ClientSampleID :

VSTDIC020

Tot Ion: 43 Resp: 366086

Ion Ratio Lower Upper

43 100

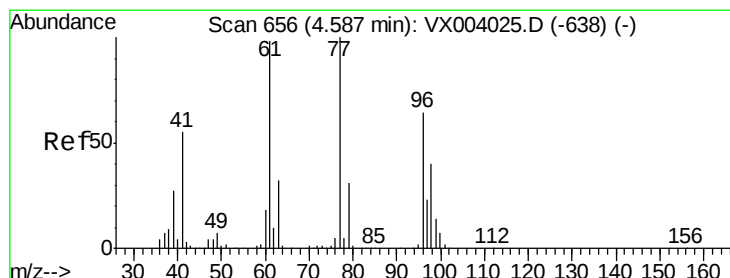
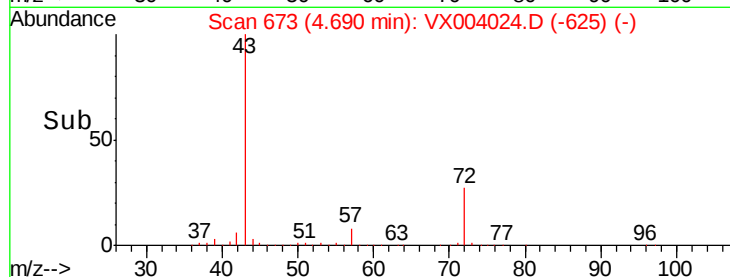
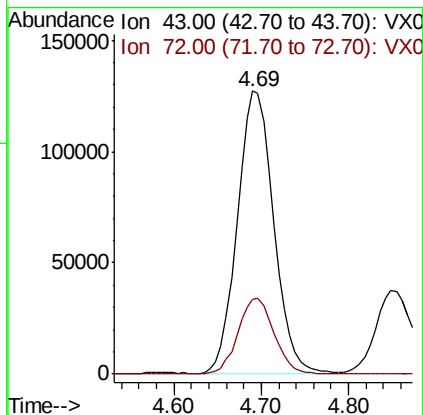
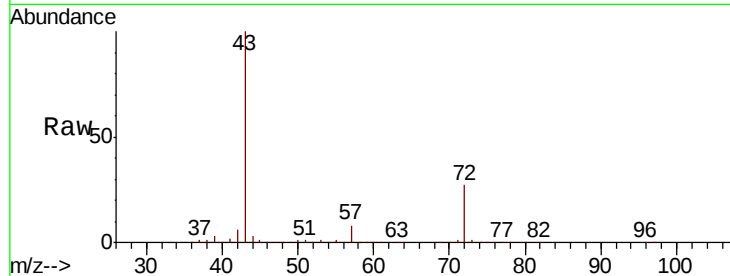
72 26.5 21.4 32.0

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 20.97 ug/l

RT: 4.59 min Scan# 656

Delta R.T. 0.00 min

Lab File: VX004024.D

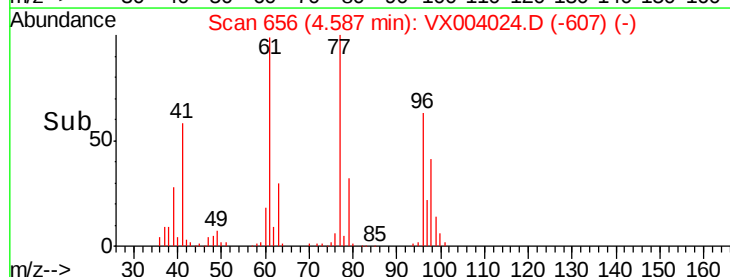
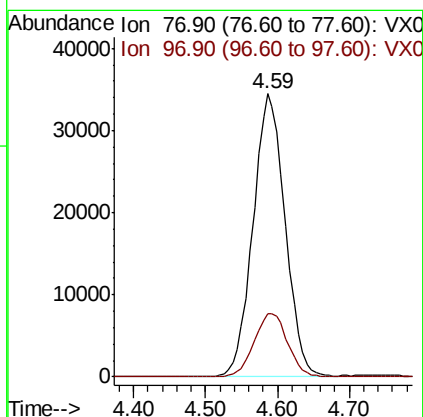
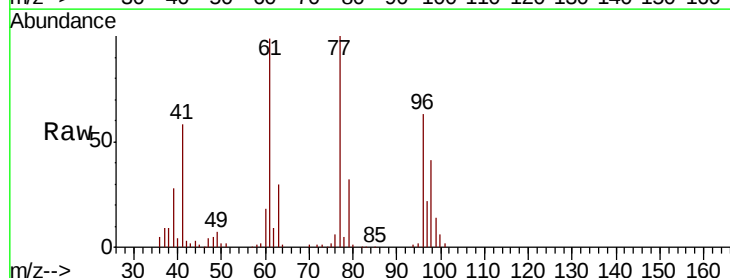
Acq: 14 Aug 2018 11:34

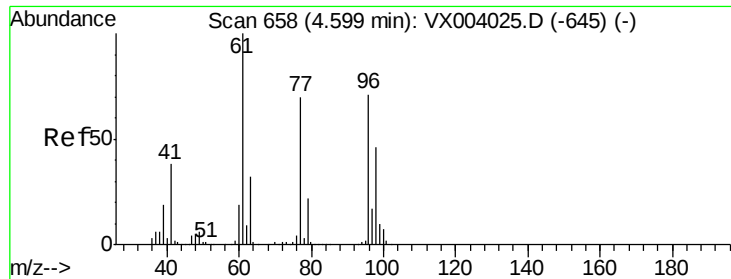
Tgt Ion: 77 Resp: 106606

Ion Ratio Lower Upper

77 100

97 23.2 11.9 35.9





#27

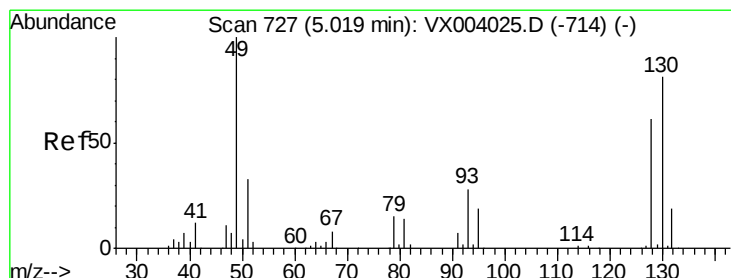
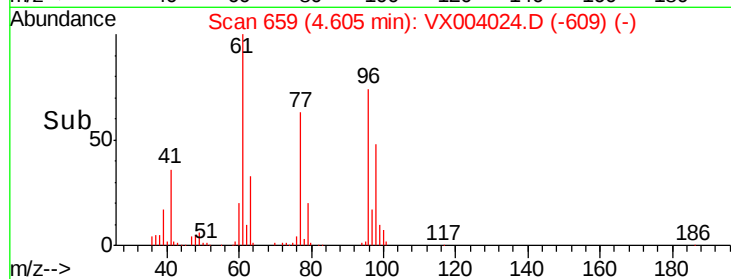
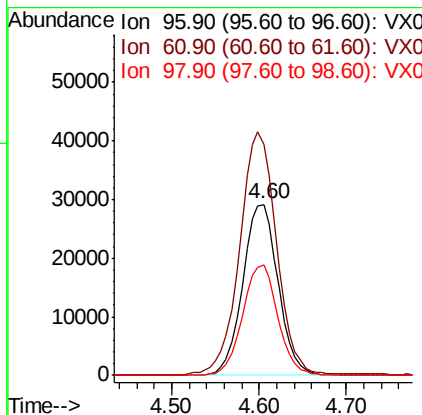
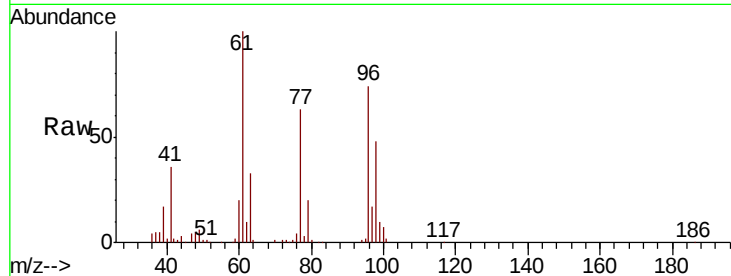
cis-1,2-Dichloroethene
 Concen: 19.79 ug/l
 RT: 4.60 min Scan# 659
 Delta R.T. 0.01 min
 Lab File: VX004024.D
 Acq: 14 Aug 2018 11:34

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	149.9	0.0	293.0
98	64.7	0.0	131.8

Manual Integrations
 APPROVED

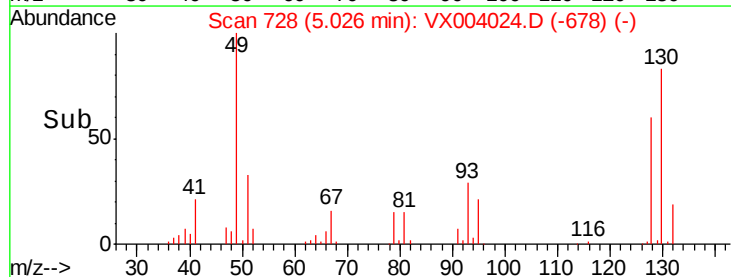
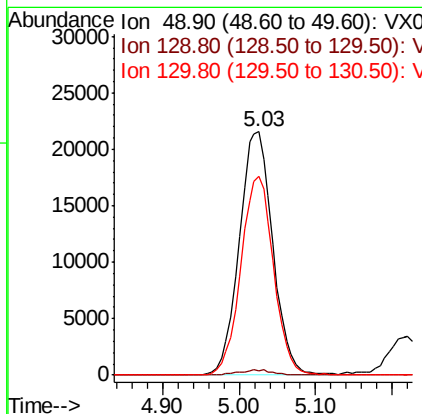
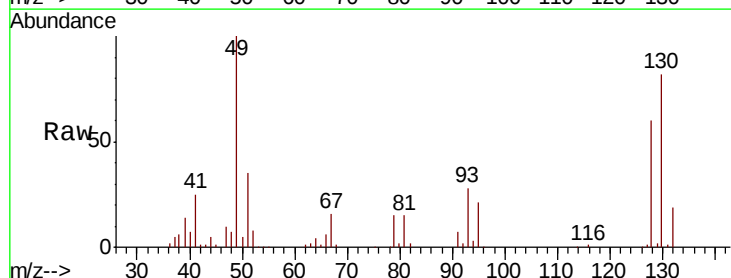
MMDadoda
 8/15/2018 4:49:51 PM

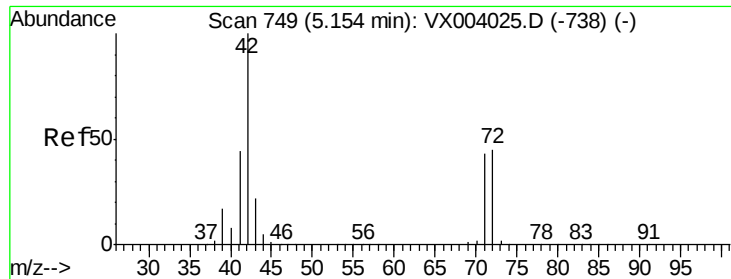


#28

Bromochloromethane
 Concen: 21.71 ug/l
 RT: 5.03 min Scan# 728
 Delta R.T. 0.01 min
 Lab File: VX004024.D
 Acq: 14 Aug 2018 11:34

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	79.6	66.5	99.7





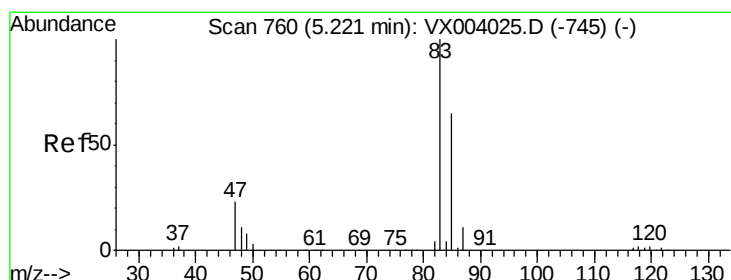
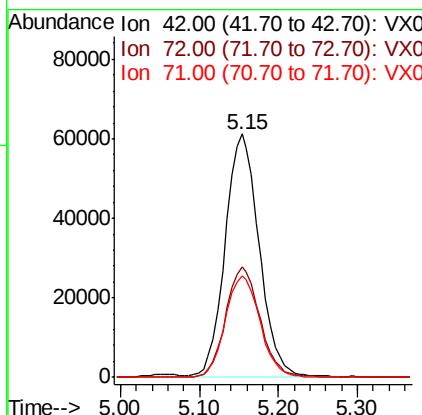
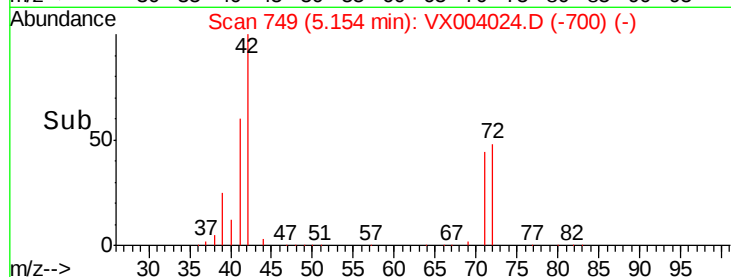
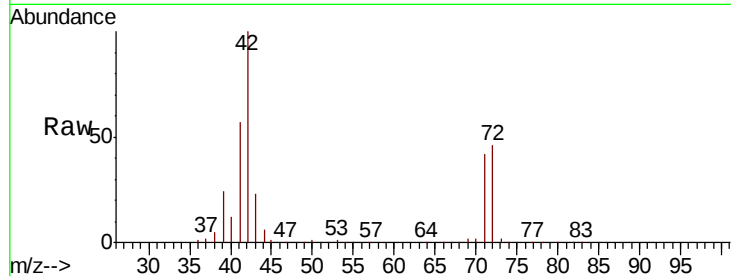
#29
Tetrahydrofuran
Concen: 95.87 ug/l
RT: 5.15 min Scan# 749
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.1	37.7	56.5
71	42.9	35.0	52.6

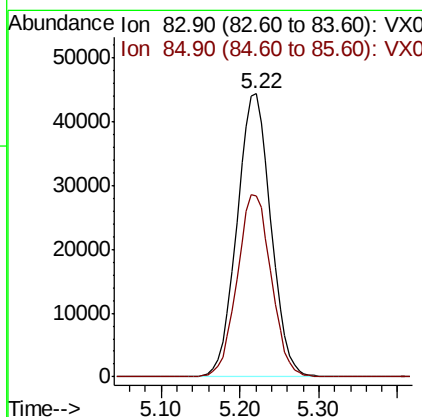
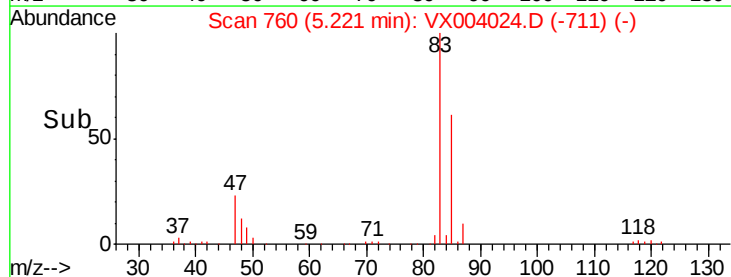
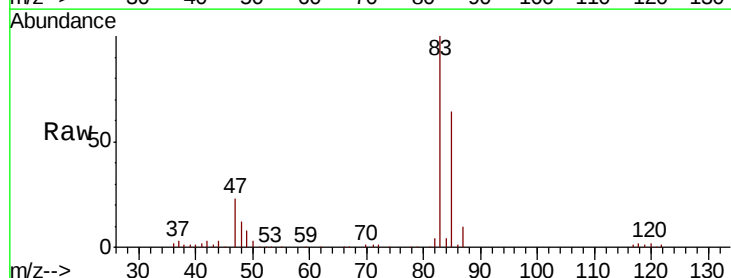
Manual Integrations
APPROVED

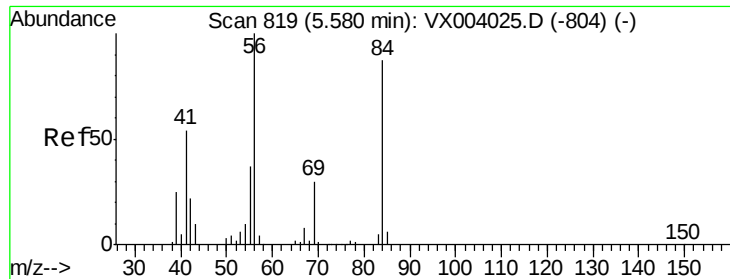
MMDadoda
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#30
Chloroform
Concen: 19.96 ug/l
RT: 5.22 min Scan# 760
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.8	50.7	76.1





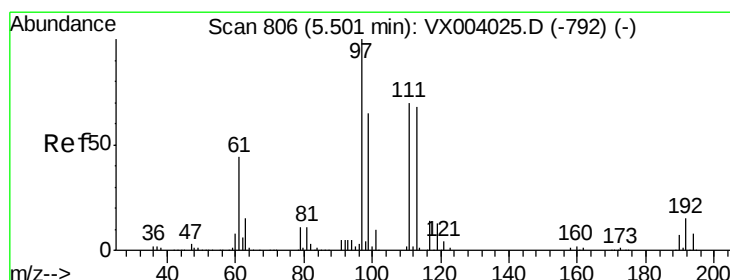
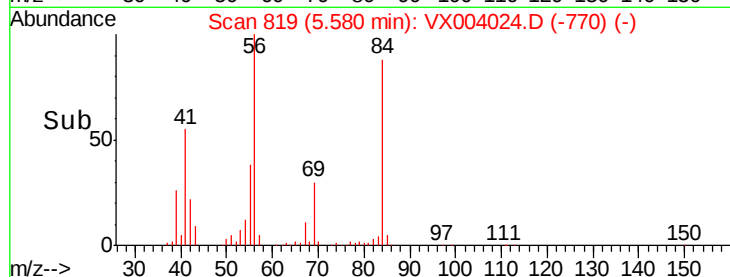
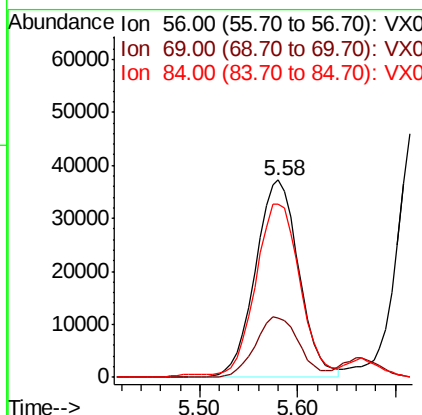
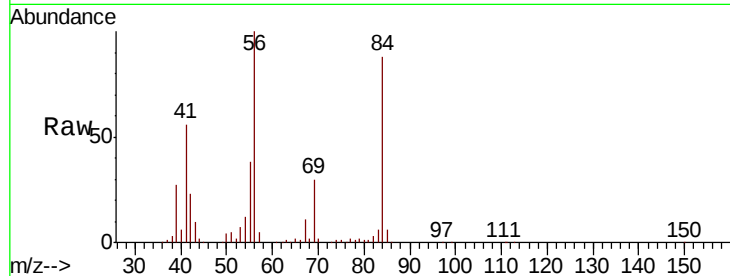
#31
Cyclohexane
Concen: 19.31 ug/l
RT: 5.58 min Scan# 819
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
56	100		
69	30.1	24.9	37.3
84	86.1	71.7	107.5

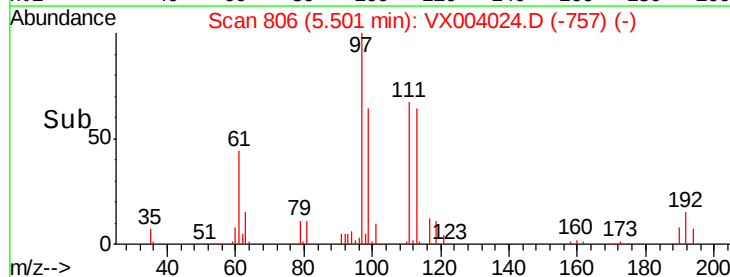
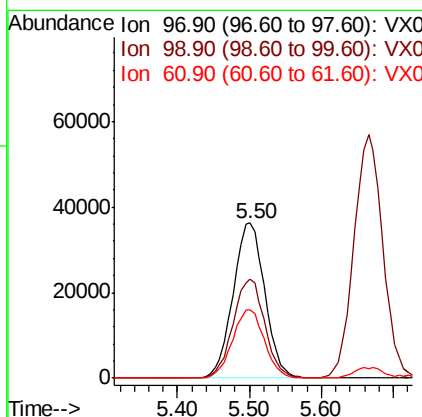
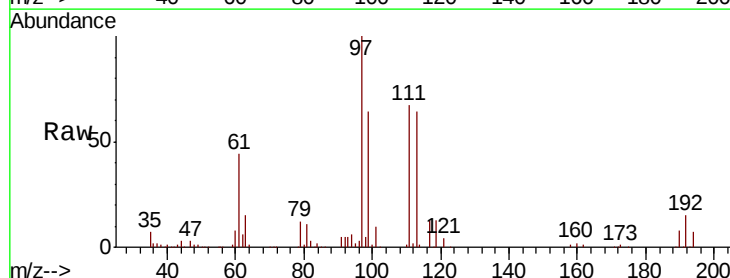
Manual Integrations
APPROVED

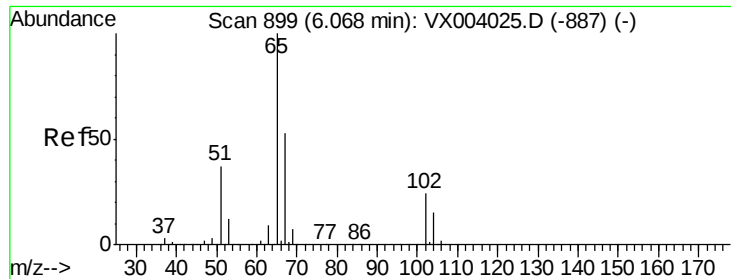
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 19.95 ug/l
RT: 5.50 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.8	77.8
61	44.6	34.4	51.6





#33

1,2-Dichloroethane-d4

Concen: 21.21 ug/l

RT: 6.07 min Scan# 899

Delta R.T. 0.00 min

Lab File: VX004024.D

Acq: 14 Aug 2018 11:34

Tot Ion: 65 Resp: 87735

Ion Ratio Lower Upper

65 100

67 53.1 0.0 105.8

Instrument :

MSVOA_X

ClientSampled :

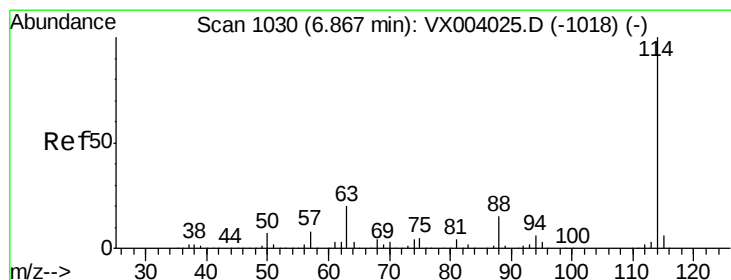
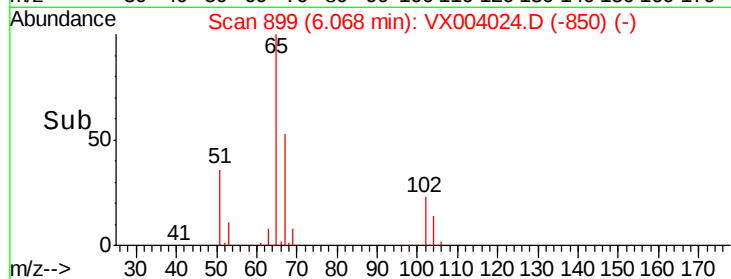
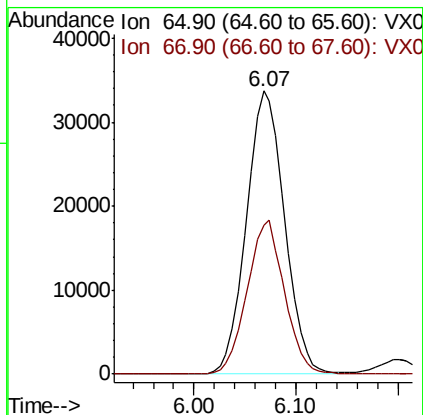
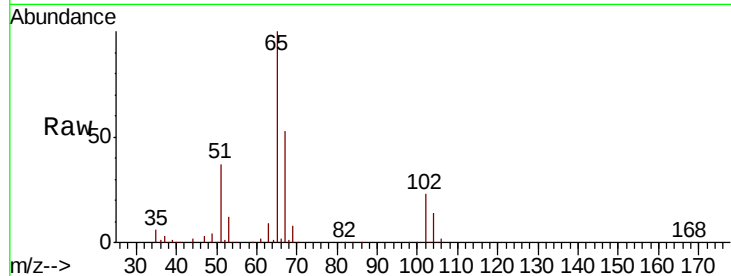
VSTDIC020

Manual Integrations

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#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX004024.D

Acq: 14 Aug 2018 11:34

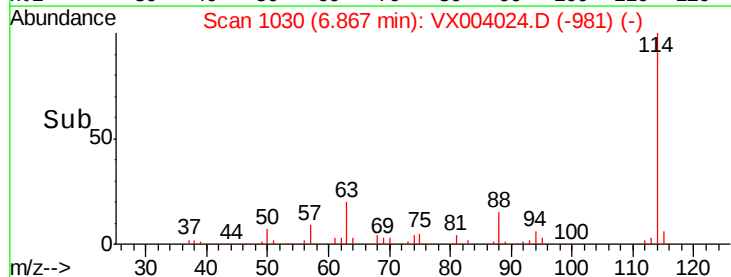
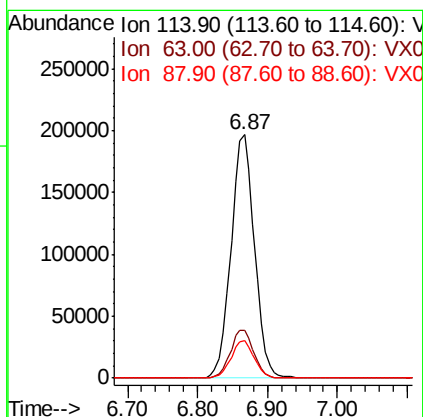
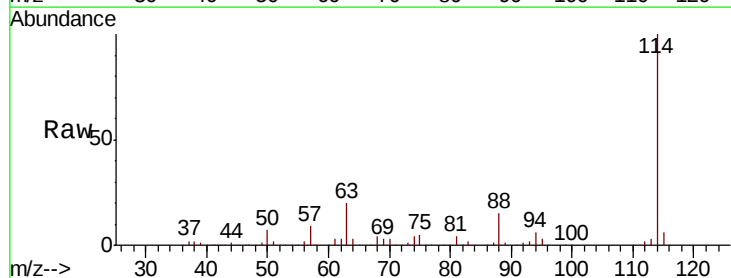
Tgt Ion: 114 Resp: 457210

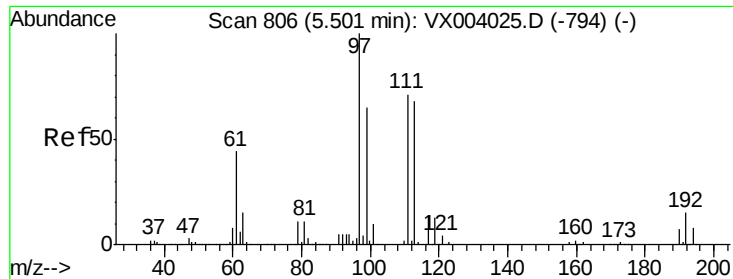
Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.0

88 15.4 0.0 32.0





#35

Dibromofluoromethane

Concen: 19.61 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.01 min

Lab File: VX004024.D

Acq: 14 Aug 2018 11:34

Instrument :

MSVOA_X

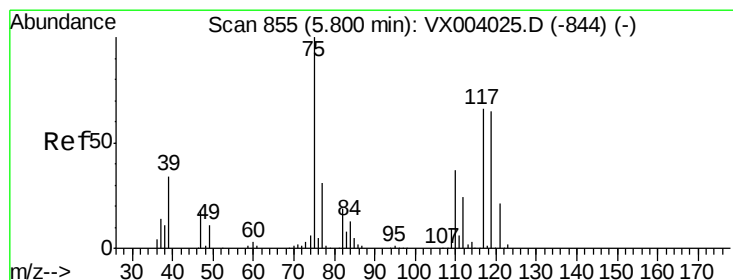
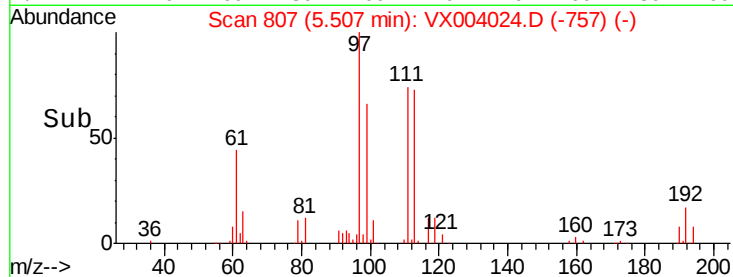
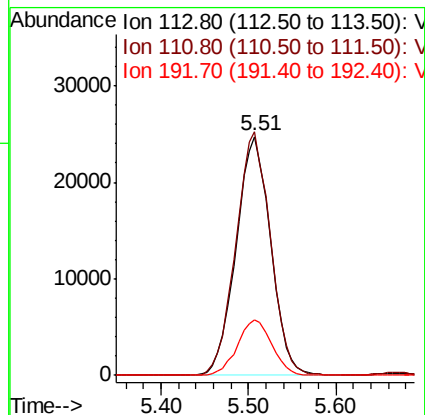
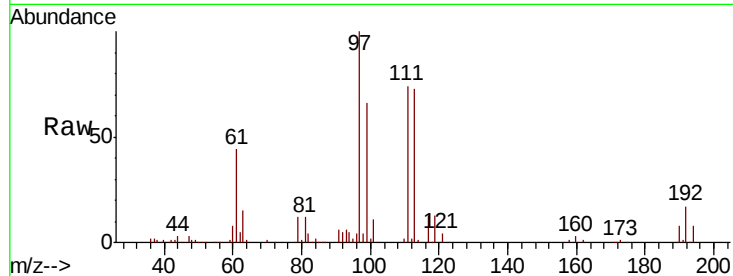
ClientSampleId :

VSTDIC020

Tot Ion:	113	Resp:	67931
Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.0	123.0
192	23.3	19.0	28.4

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 19.88 ug/l

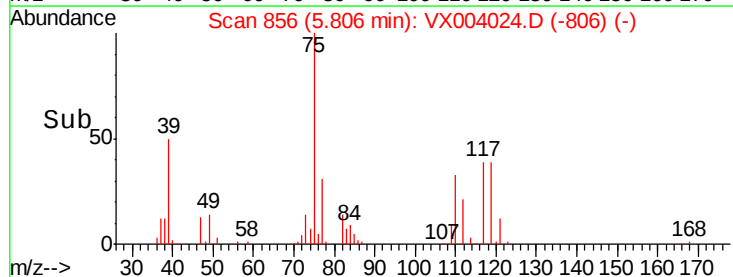
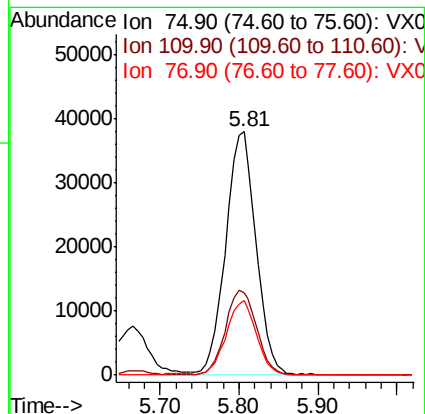
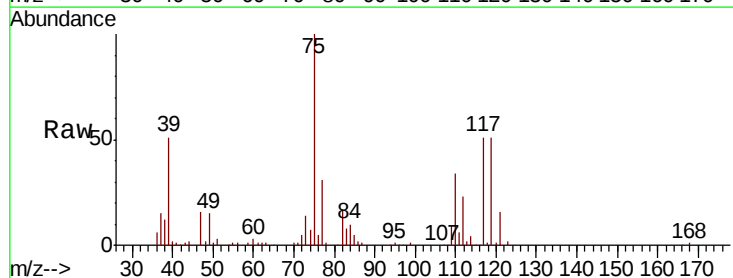
RT: 5.81 min Scan# 856

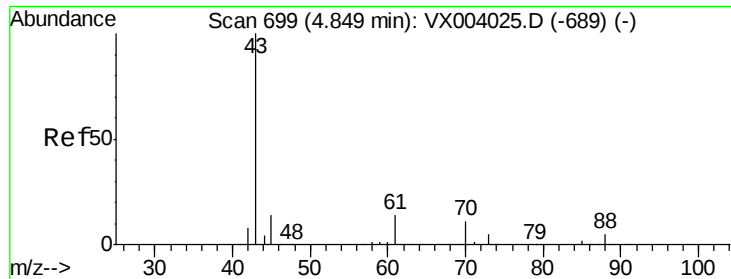
Delta R.T. 0.01 min

Lab File: VX004024.D

Acq: 14 Aug 2018 11:34

Tgt Ion:	75	Resp:	101818
Ion	Ratio	Lower	Upper
75	100		
110	35.7	18.2	54.6
77	29.9	25.0	37.4





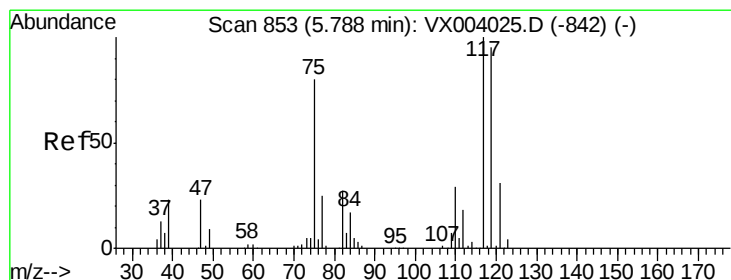
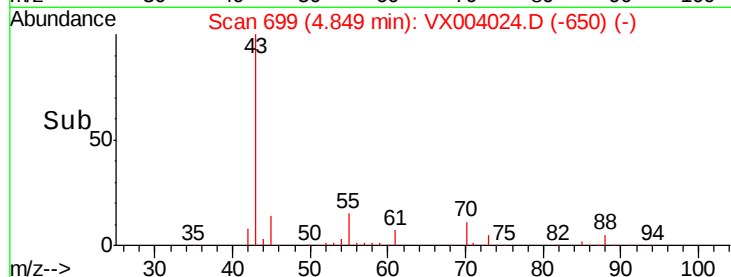
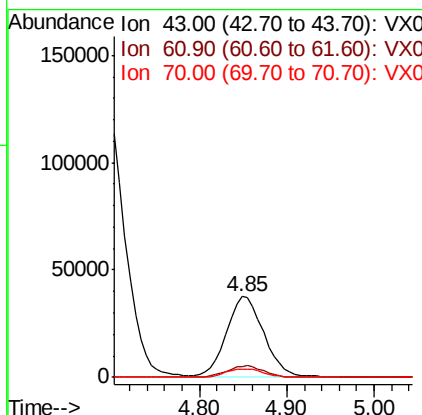
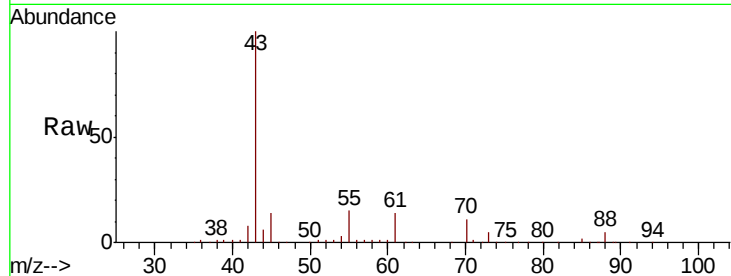
#37
Ethyl Acetate
Concen: 19.66 ug/l
RT: 4.85 min Scan# 699
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Instrument :
MSVOA_X
ClientSampleID :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.0	11.5	17.3
70	11.2	9.0	13.4

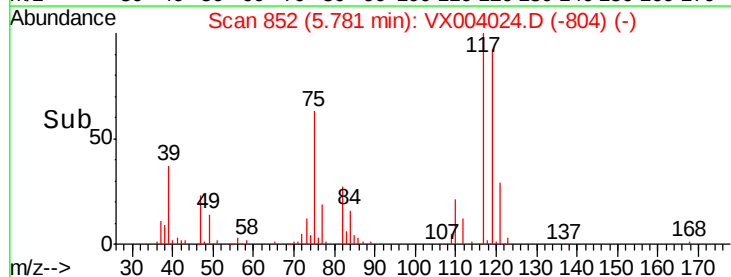
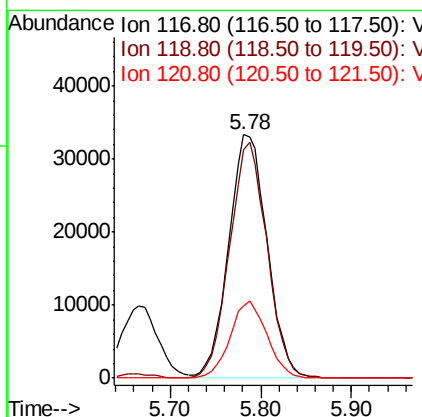
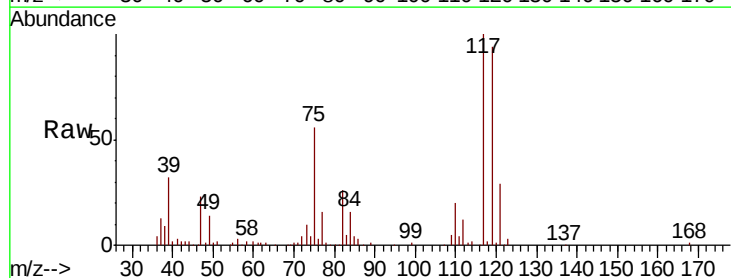
Manual Integrations
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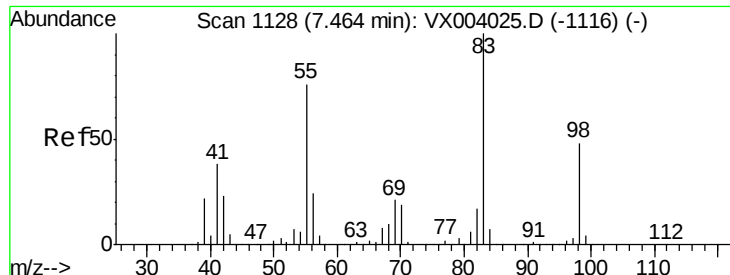
MMDadoda
8/15/2018 4:49:51 PM



#38
Carbon Tetrachloride
Concen: 20.12 ug/l
RT: 5.78 min Scan# 852
Delta R.T. -0.01 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.4	79.5	119.3
121	29.4	25.0	37.4





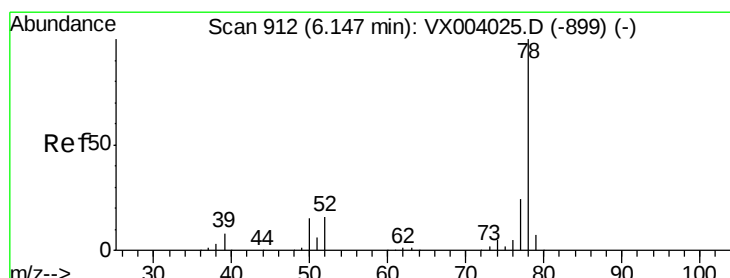
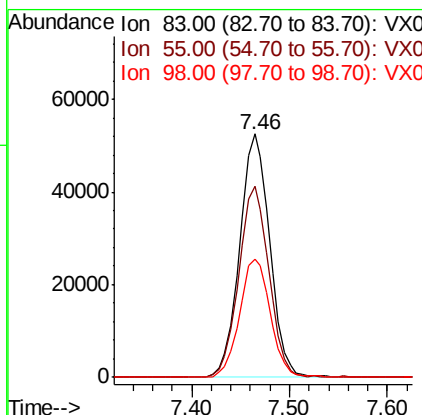
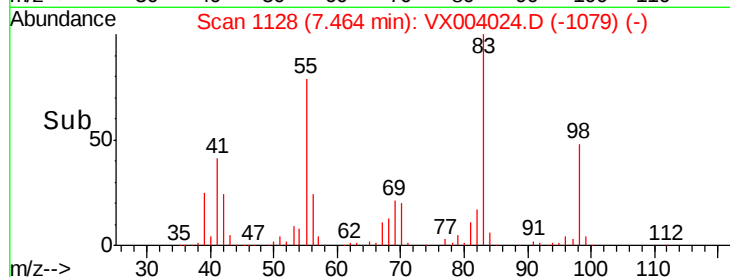
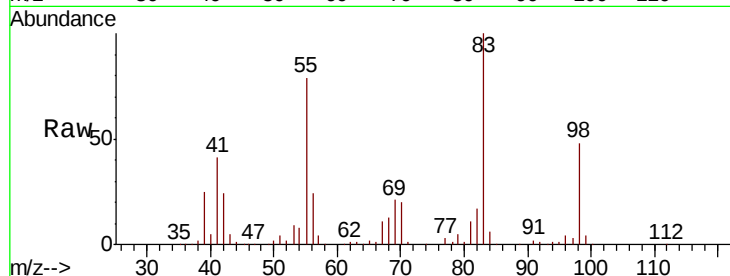
#39
Methylvlcvclohexane
Concen: 18.55 ug/l
RT: 7.46 min Scan# 1128
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
83	100		
55	78.8	61.0	91.6
98	48.3	38.6	57.8

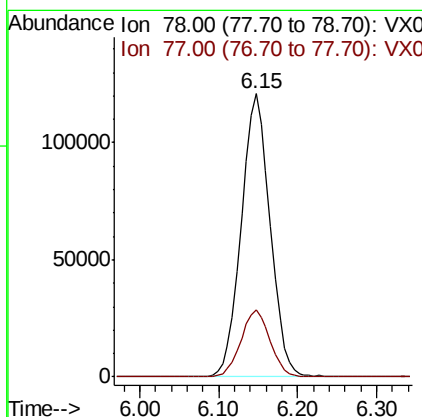
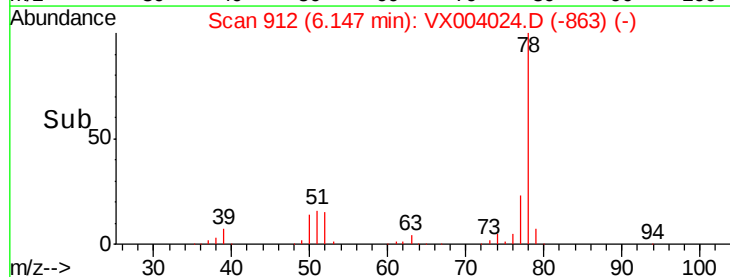
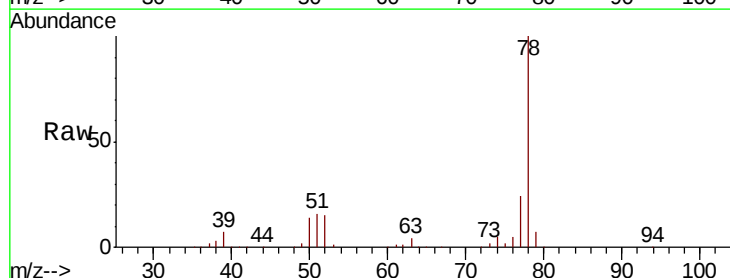
Manual Integrations
APPROVED

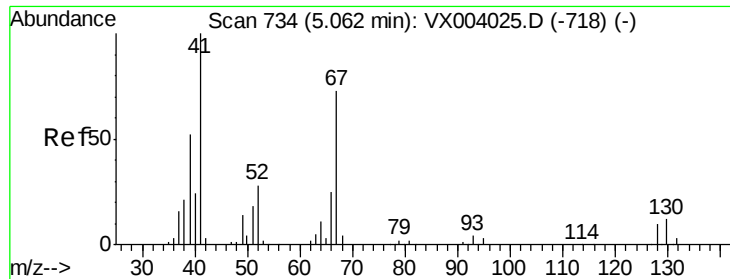
MMDadoda
8/15/2018 4:49:51 PM



#40
Benzene
Concen: 19.99 ug/l
RT: 6.15 min Scan# 912
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.4





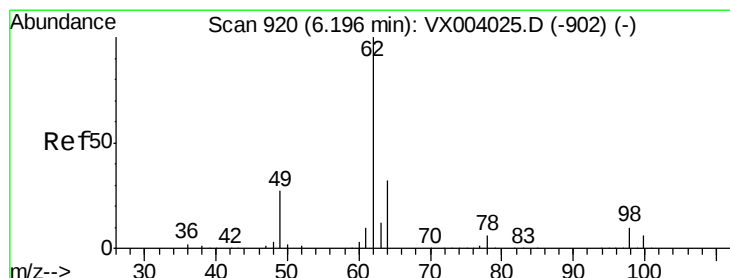
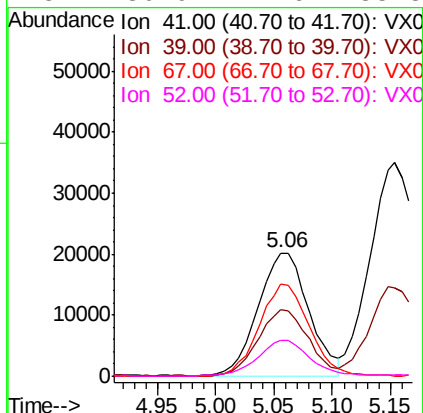
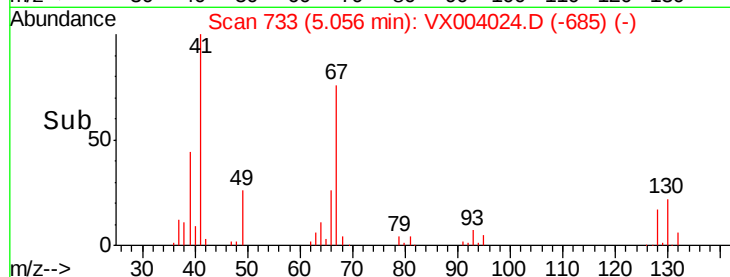
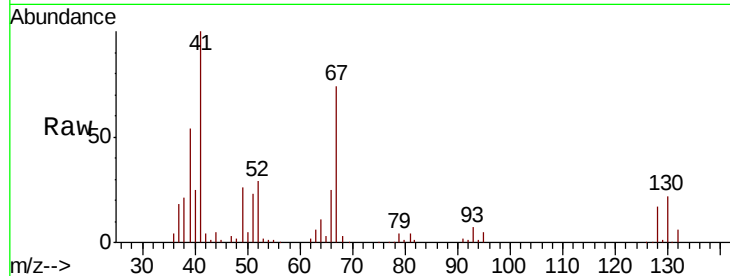
#41
Methacrylonitrile
Concen: 19.62 ug/l
RT: 5.06 min Scan# 733
Delta R.T. -0.01 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	52.8	42.7	64.1	
67	74.0	58.9	88.3	
52	30.9	22.6	33.8	

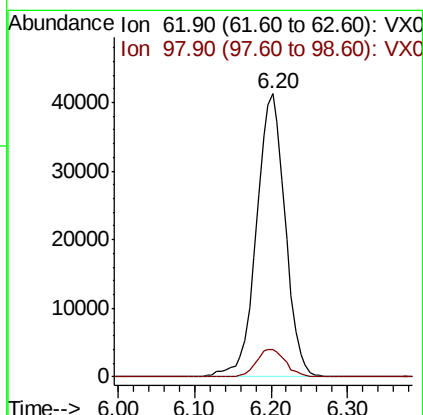
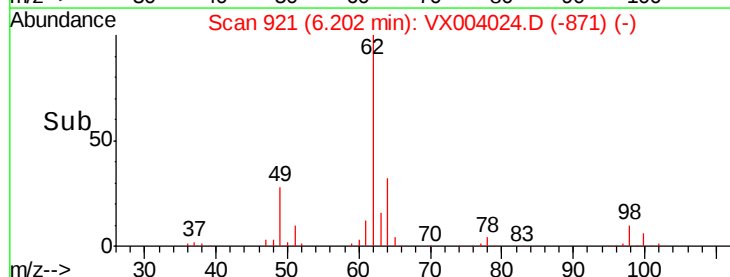
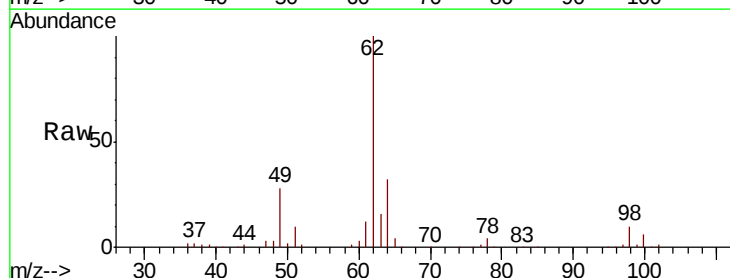
Manual Integrations
APPROVED

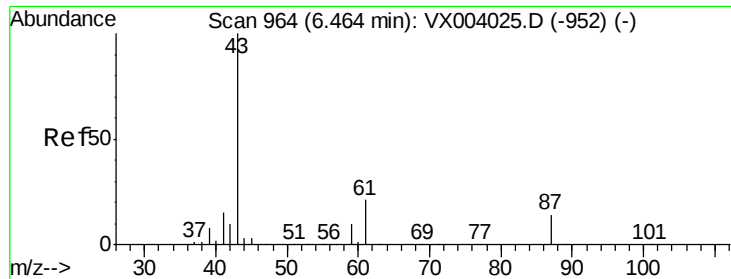
MMDadoda
8/15/2018 4:49:51 PM



#42
1,2-Dichloroethane
Concen: 20.80 ug/l
RT: 6.20 min Scan# 921
Delta R.T. 0.01 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.9	0.0	20.4	





#43

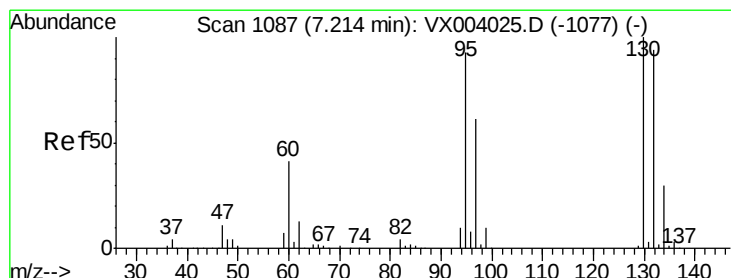
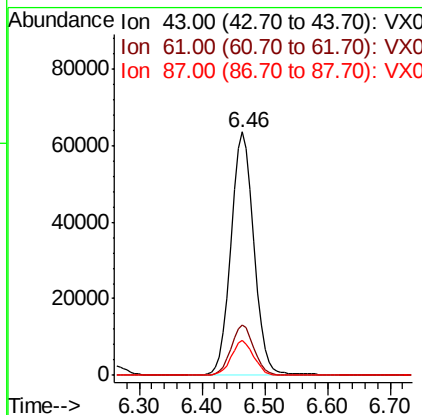
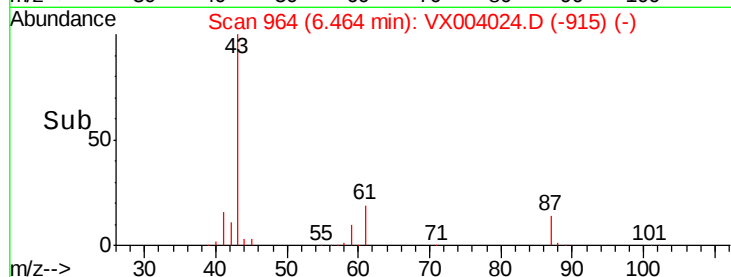
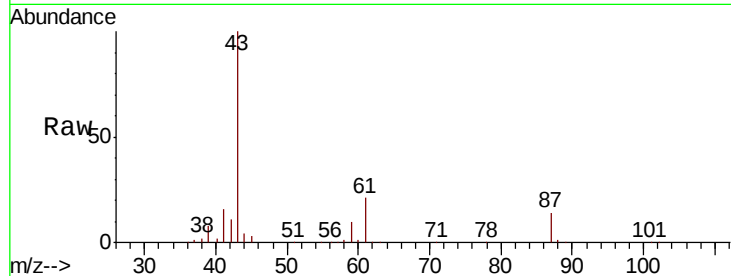
Isopropyl Acetate
 Concen: 18.94 ug/l
 RT: 6.46 min Scan# 964
 Delta R.T. 0.00 min
 Lab File: VX004024.D
 Acq: 14 Aug 2018 11:34

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	20.6	16.9	25.3
87	13.8	11.3	16.9

Manual Integrations
 APPROVED

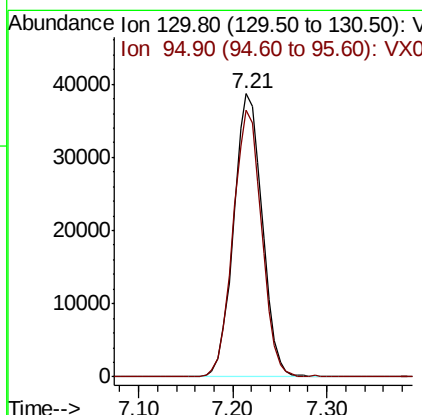
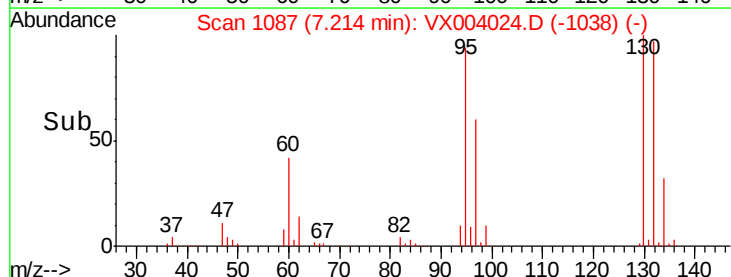
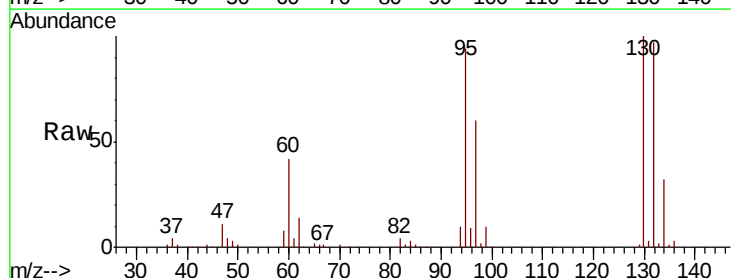
MMDadoda
 8/15/2018 4:49:51 PM

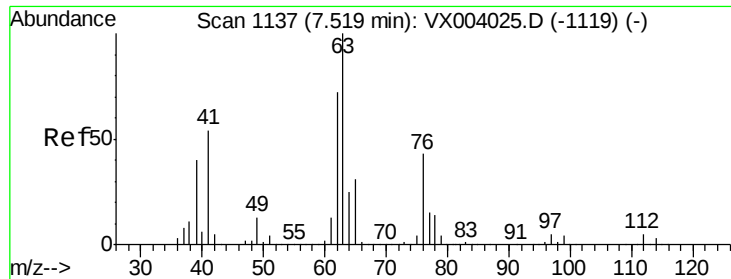


#44

Trichloroethene
 Concen: 19.44 ug/l
 RT: 7.21 min Scan# 1087
 Delta R.T. 0.00 min
 Lab File: VX004024.D
 Acq: 14 Aug 2018 11:34

Tgt Ion	Ratio	Lower	Upper
130	100		
95	94.2	0.0	199.4





#45

1,2-Dichloropropane

Concen: 19.84 ug/l

RT: 7.52 min Scan# 1137

Delta R.T. 0.00 min

Lab File: VX004024.D

Acq: 14 Aug 2018 11:34

Instrument :

MSVOA_X

ClientSampled :

VSTDIC020

Tot Ion: 63 Resp: 78780

Ion Ratio Lower Upper

63 100

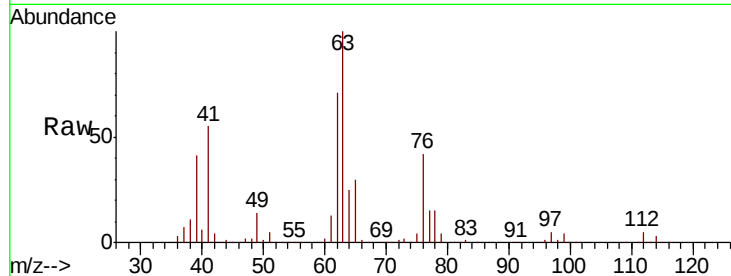
65 30.0 24.6 36.8

Manual Integrations

APPROVED

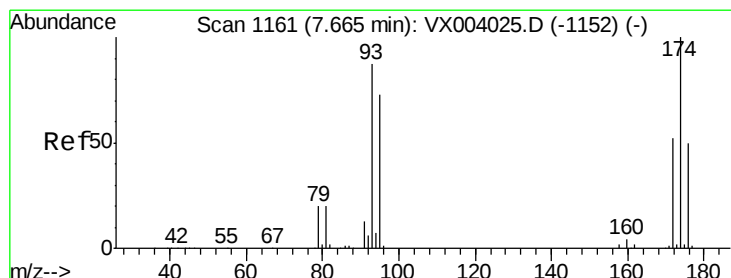
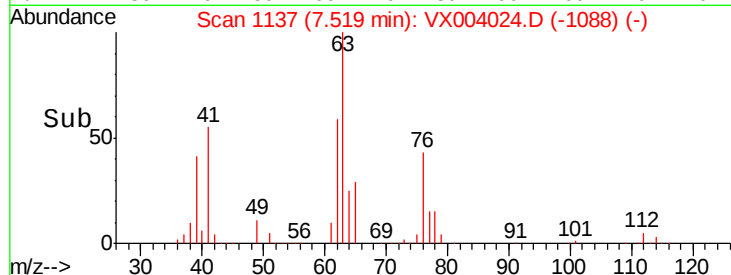
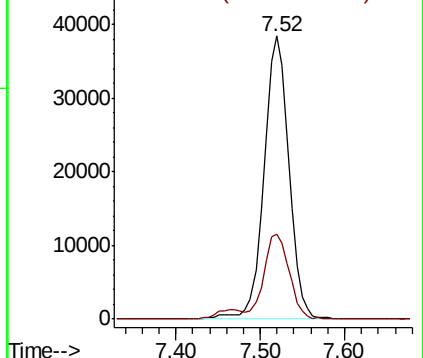
MMDadoda

8/15/2018 4:49:51 PM



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 64.90 (64.60 to 65.60): VX0



#46

Dibromomethane

Concen: 19.92 ug/l

RT: 7.67 min Scan# 1161

Delta R.T. 0.00 min

Lab File: VX004024.D

Acq: 14 Aug 2018 11:34

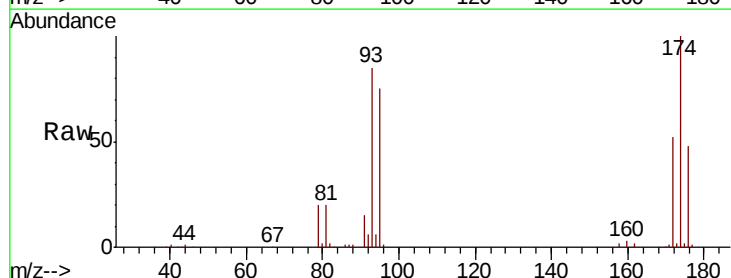
Tgt Ion: 93 Resp: 51350

Ion Ratio Lower Upper

93 100

95 84.7 66.4 99.6

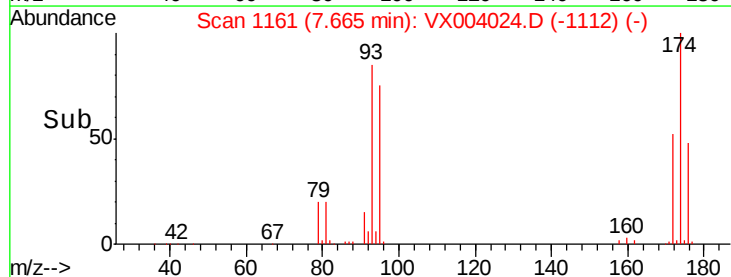
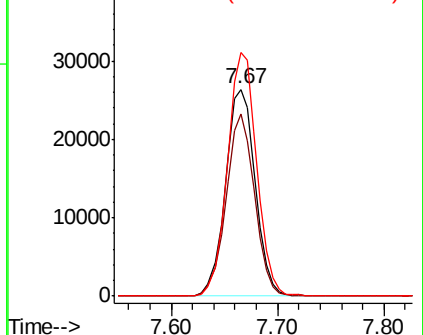
174 116.3 94.3 141.5

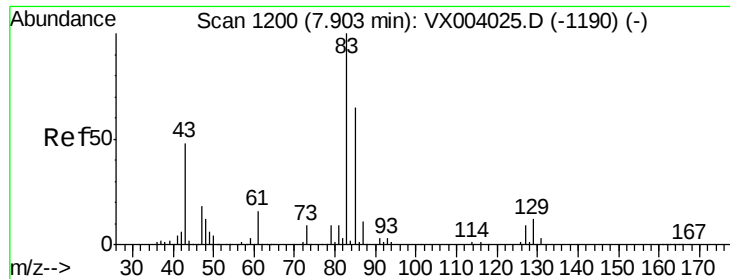


Abundance Ion 92.80 (92.50 to 93.50): VX0

Ion 94.80 (94.50 to 95.50): VX0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 19.58 ug/l

RT: 7.90 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VX004024.D

Acq: 14 Aug 2018 11:34

Instrument :

MSVOA_X

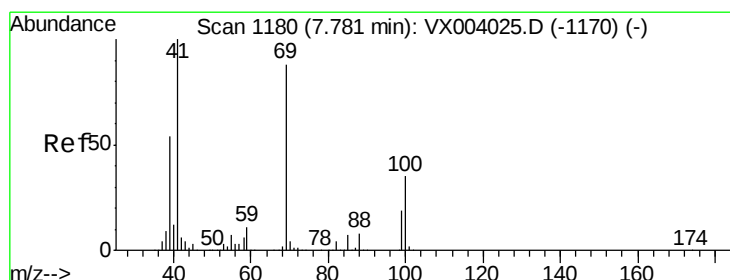
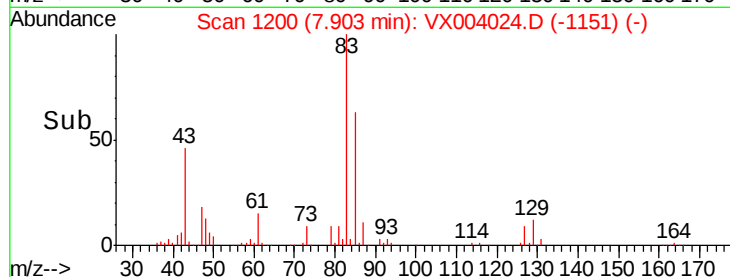
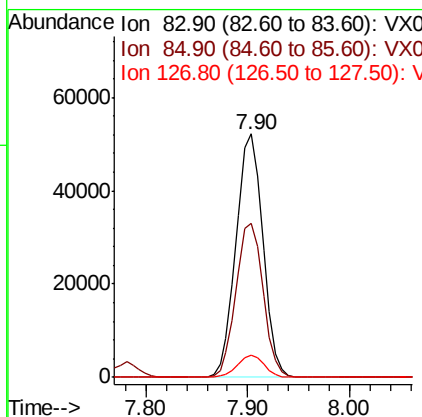
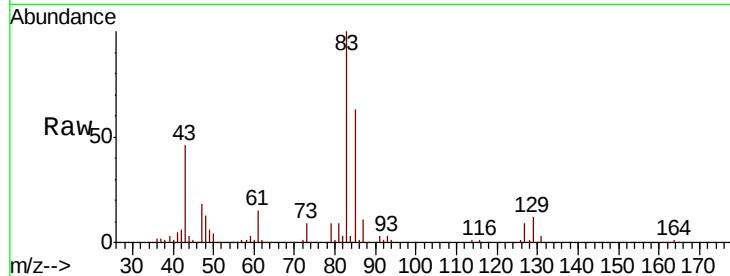
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	95071
Ion Ratio	Lower	Upper	
83	100		
85	63.0	51.2	76.8
127	9.3	7.2	10.8

Manual Integrations
APPROVED

MMDadoda
8/15/2018 4:49:51 PM



#48

Methyl methacrylate

Concen: 19.16 ug/l

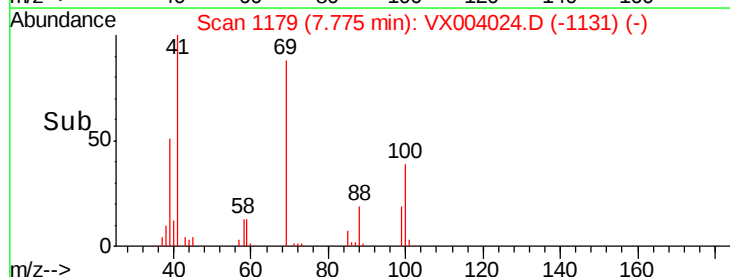
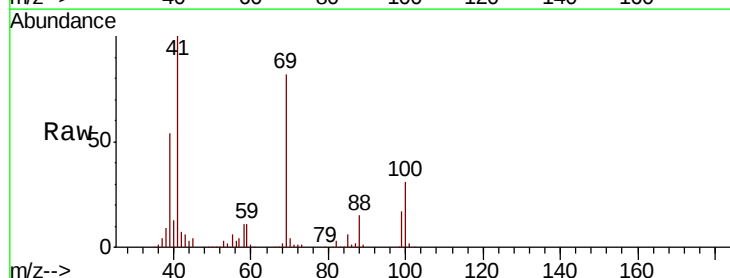
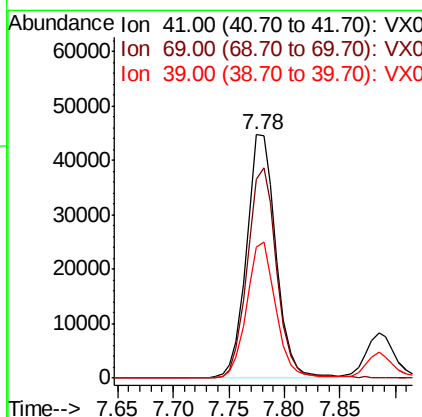
RT: 7.78 min Scan# 1179

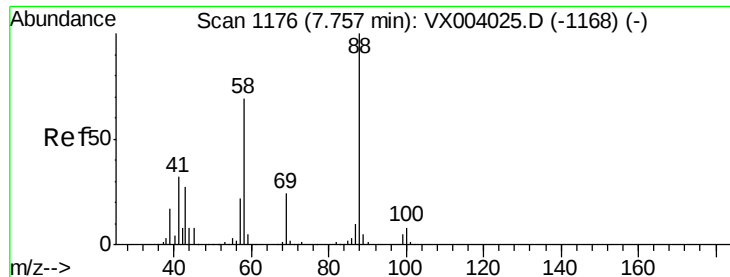
Delta R.T. -0.01 min

Lab File: VX004024.D

Acq: 14 Aug 2018 11:34

Tgt Ion:	41	Resp:	82548
Ion Ratio	Lower	Upper	
41	100		
69	85.7	68.8	103.2
39	54.9	42.3	63.5





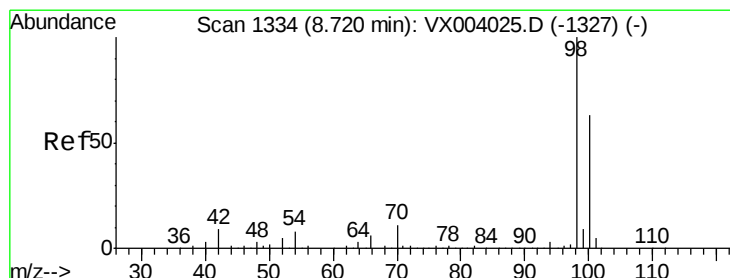
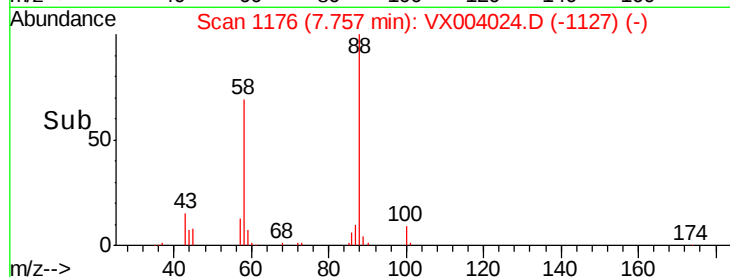
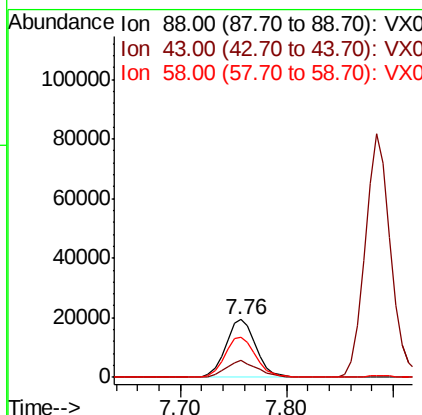
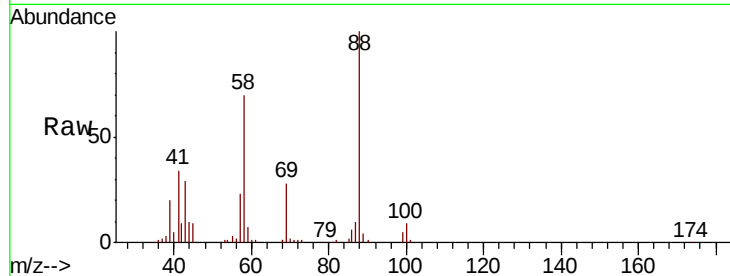
#49
1,4-Dioxane
Concen: 376.50 ug/l
RT: 7.76 min Scan# 1176
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
88	100		
43	31.6	23.8	35.8
58	72.1	55.4	83.0

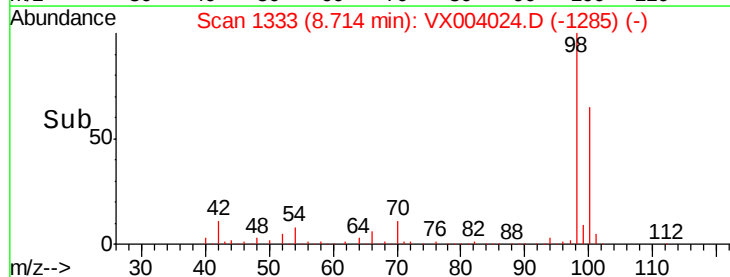
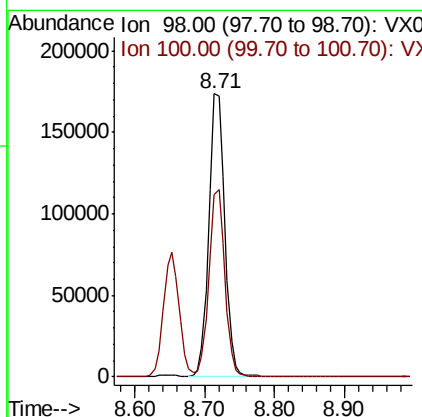
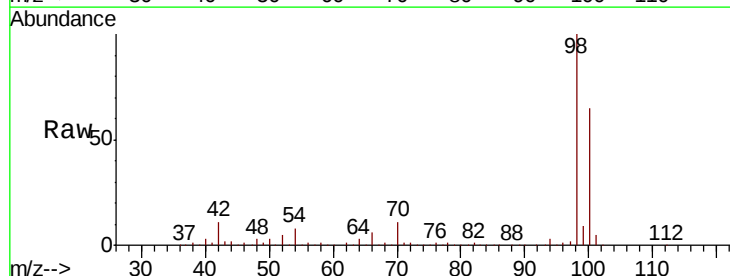
Manual Integrations
APPROVED

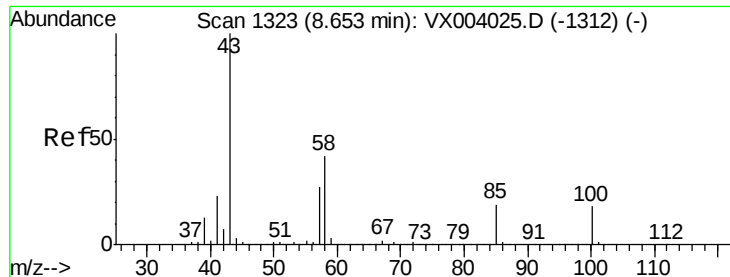
MMDadoda
8/15/2018 4:49:51 PM



#50
Toluene-d8
Concen: 20.54 ug/l
RT: 8.71 min Scan# 1333
Delta R.T. -0.01 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.9	53.3	79.9





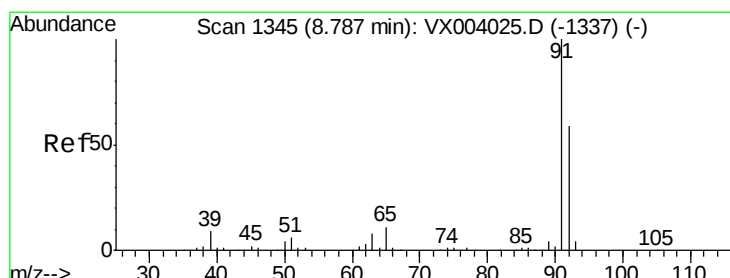
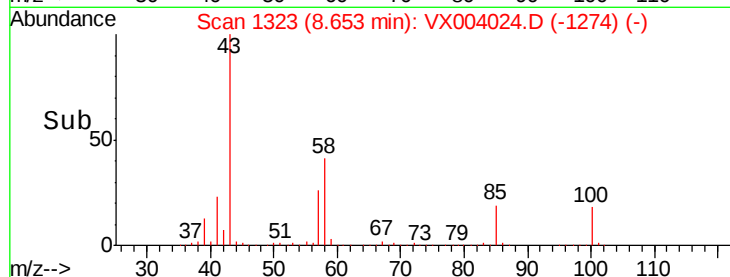
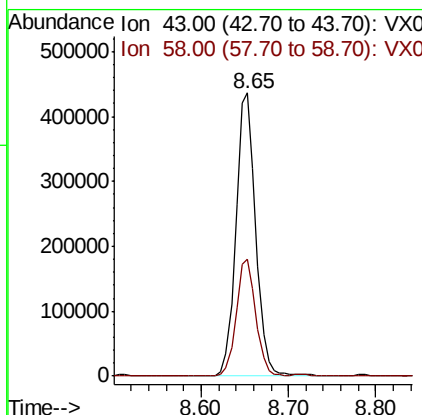
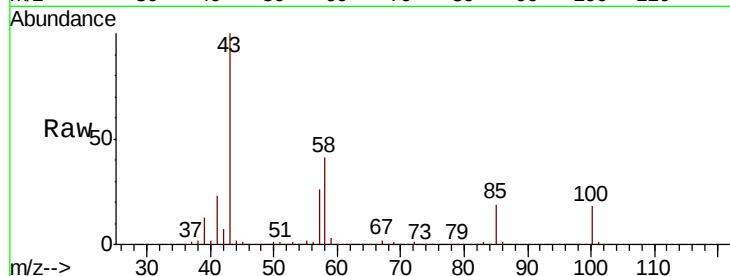
#51
4-Methyl-2-Pentanone
Concen: 98.26 ug/l
RT: 8.65 min Scan# 1323
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Instrument :
MSVOA_X
ClientSampleID :
VSTDIC020

Tot Ion	43	58	Resp	Lower	Upper
43	100				
58	40.9		33.0	49.6	

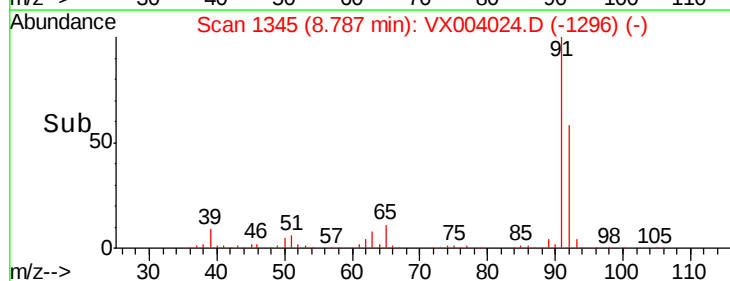
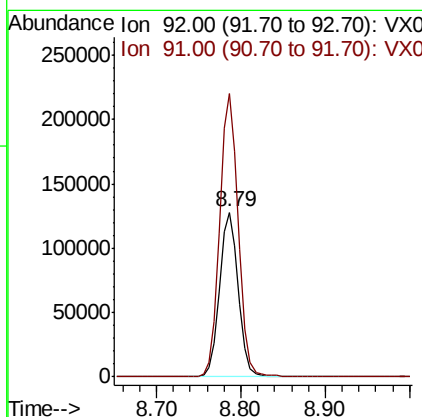
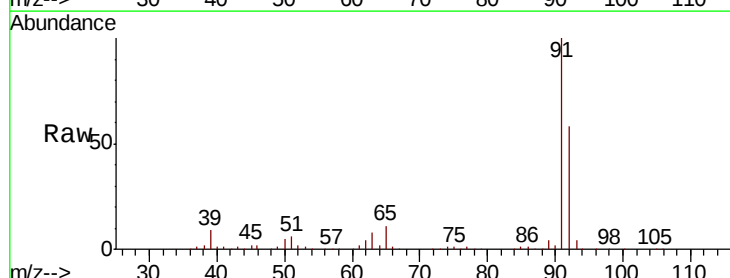
Manual Integrations
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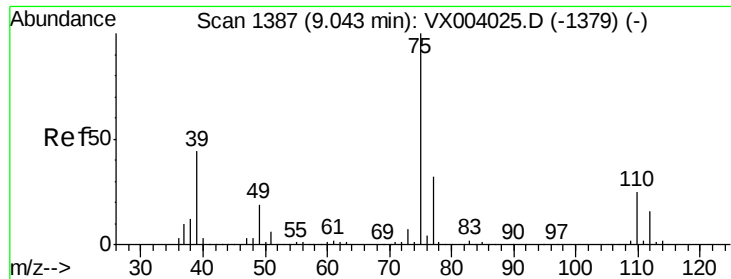
MMDadoda
8/15/2018 4:49:51 PM



#52
Toluene
Concen: 20.17 ug/l
RT: 8.79 min Scan# 1345
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Tgt Ion	92	91	Resp	Lower	Upper
92	100				
91	171.6		136.1	204.1	





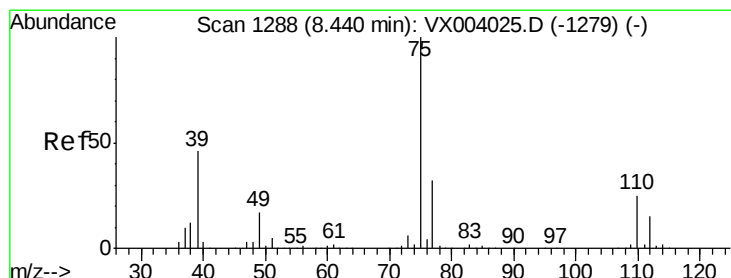
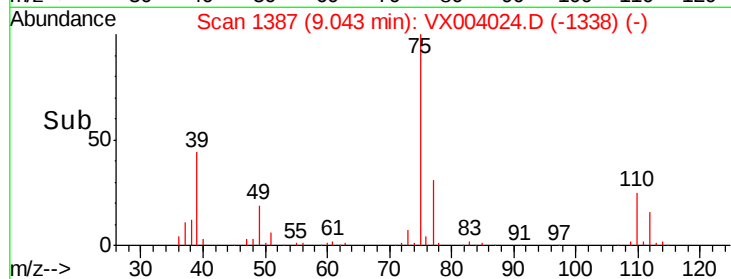
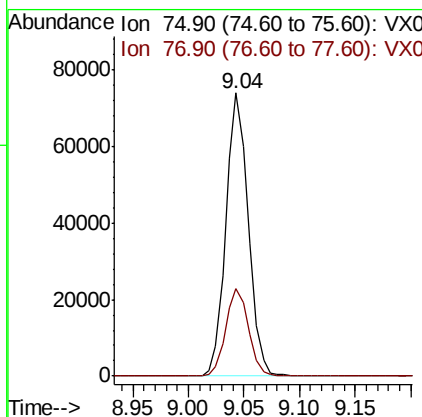
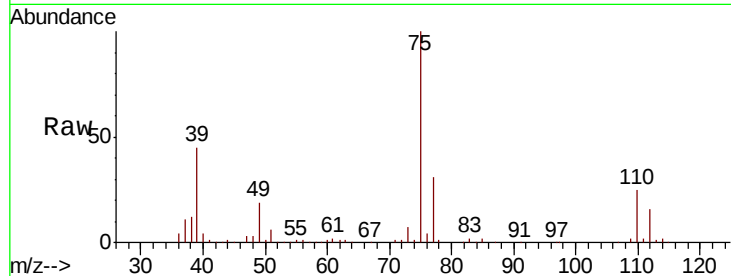
#53
t-1,3-Dichloropropene
Concen: 18.73 ug/l
RT: 9.04 min Scan# 1387
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion: 75 Resp: 102831
Ion Ratio Lower Upper
75 100
77 30.9 25.1 37.7

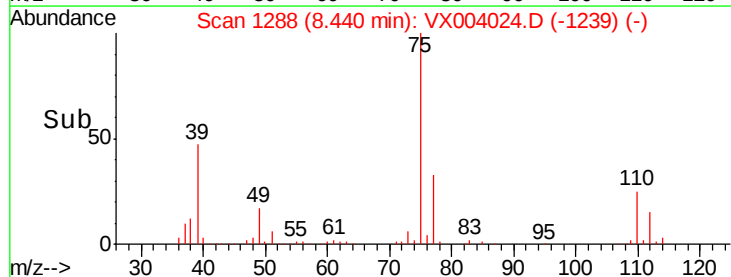
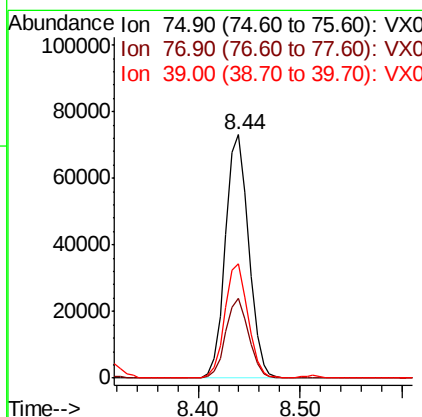
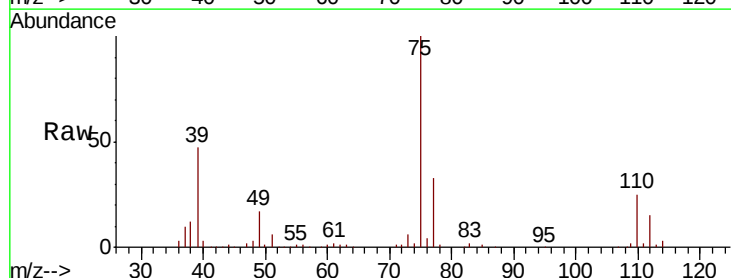
Manual Integrations
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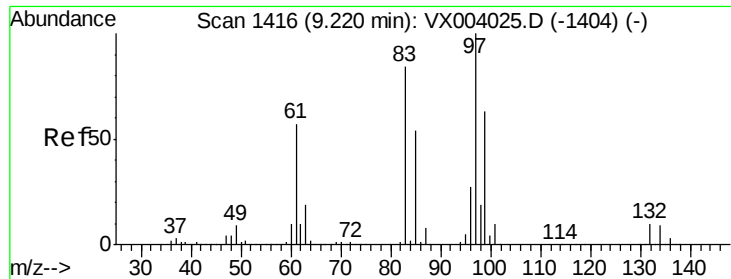
MMDadoda
8/15/2018 4:49:51 PM



#54
cis-1,3-Dichloropropene
Concen: 19.54 ug/l
RT: 8.44 min Scan# 1288
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Tgt Ion: 75 Resp: 115652
Ion Ratio Lower Upper
75 100
77 32.6 25.3 37.9
39 46.7 36.2 54.2





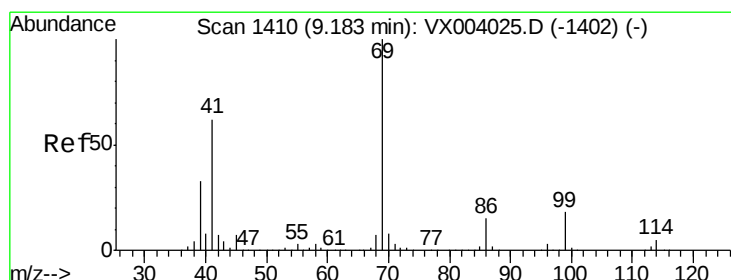
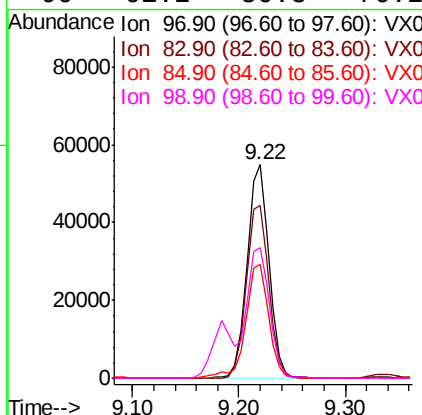
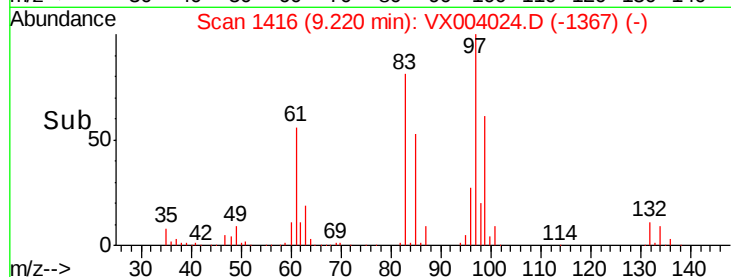
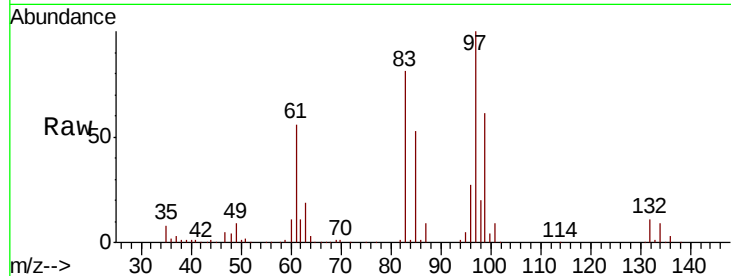
#55
 1,1,2-Trichloroethane
 Concen: 19.98 ug/l
 RT: 9.22 min Scan# 1416
 Delta R.T. 0.00 min
 Lab File: VX004024.D
 Acq: 14 Aug 2018 11:34

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		79328		
83	80.7	67.8	101.6		
85	53.3	44.2	66.2		
99	61.2	50.8	76.2		

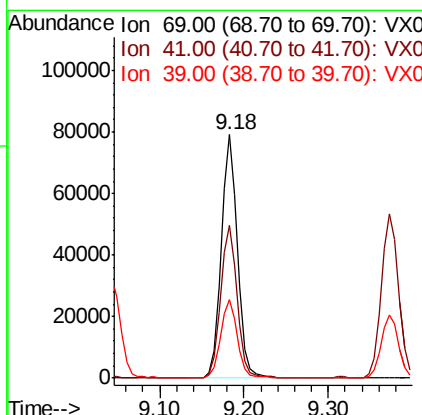
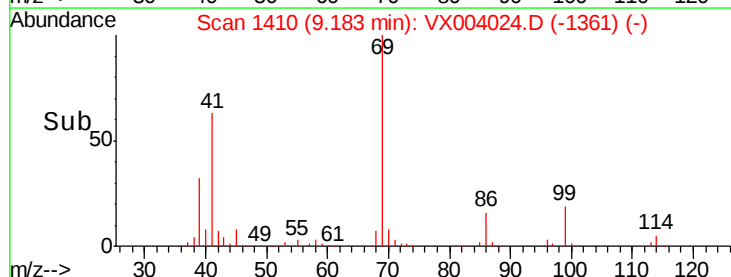
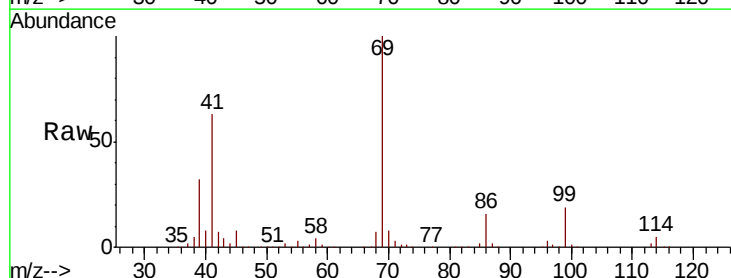
Manual Integrations
 APPROVED

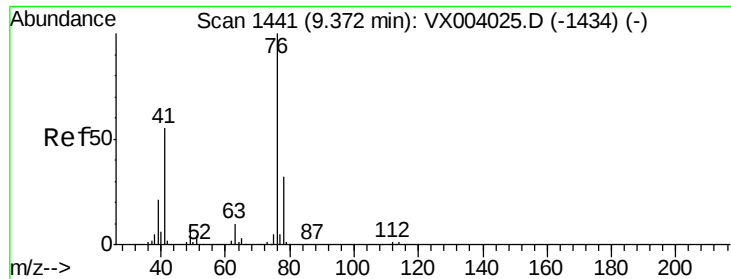
MMDadoda
 8/15/2018 4:49:51 PM



#56
 Ethyl methacrylate
 Concen: 18.31 ug/l
 RT: 9.18 min Scan# 1410
 Delta R.T. 0.00 min
 Lab File: VX004024.D
 Acq: 14 Aug 2018 11:34

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		105457		
41	63.6	50.6	76.0		
39	33.1	25.8	38.6		





#57

1,3-Dichloropropane

Concen: 20.06 ug/l

RT: 9.37 min Scan# 1441

Delta R.T. 0.00 min

Lab File: VX004024.D

Acq: 14 Aug 2018 11:34

Instrument :

MSVOA_X

ClientSampled :

VSTDIC020

Tot Ion: 76 Resp: 133272

Ion Ratio Lower Upper

76 100

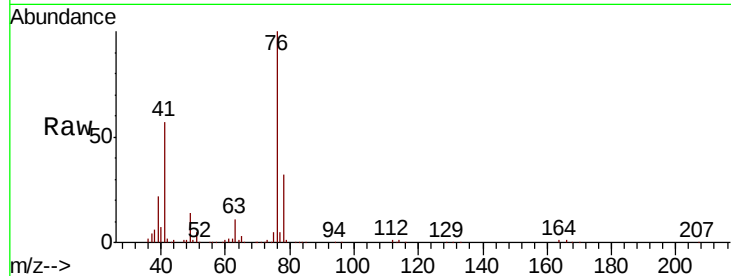
78 32.6 25.9 38.9

Manual Integrations

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MMDadoda

8/15/2018 4:49:51 PM



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

9.37

100000

80000

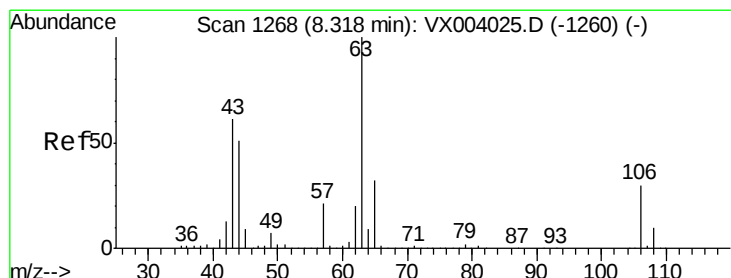
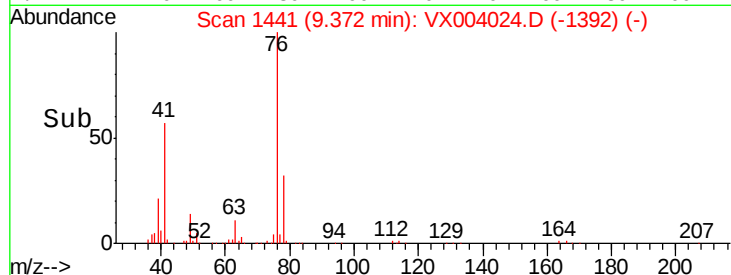
60000

40000

20000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 104.23 ug/l

RT: 8.32 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VX004024.D

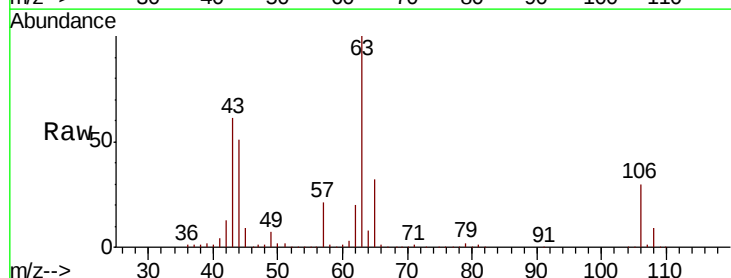
Acq: 14 Aug 2018 11:34

Tgt Ion: 63 Resp: 295226

Ion Ratio Lower Upper

63 100

106 29.7 23.8 35.8



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V

8.32

200000

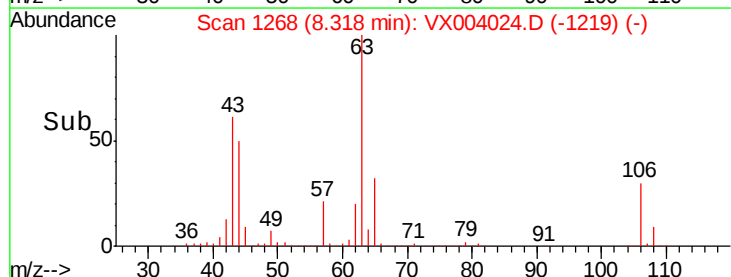
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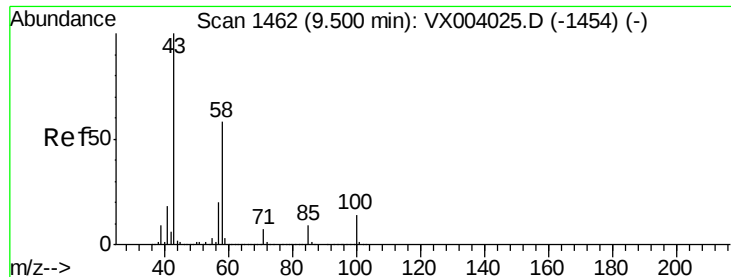
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Time-->





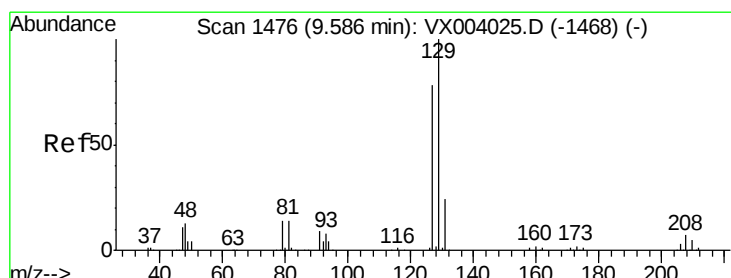
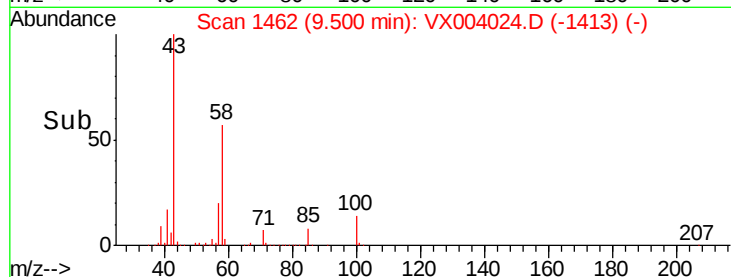
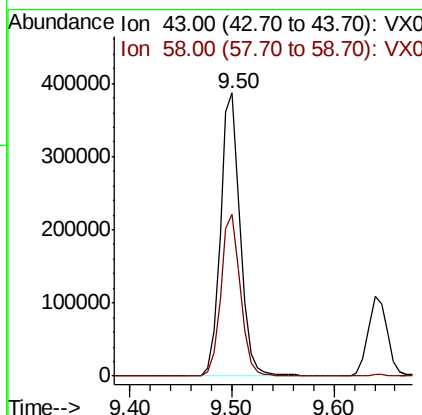
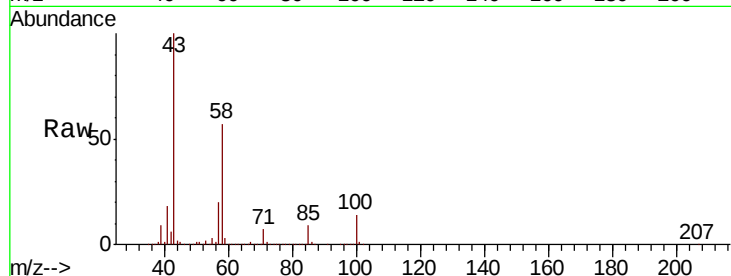
#59
2-Hexanone
Concen: 99.17 ug/l
RT: 9.50 min Scan# 1462
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
58	57.2	29.0	87.0

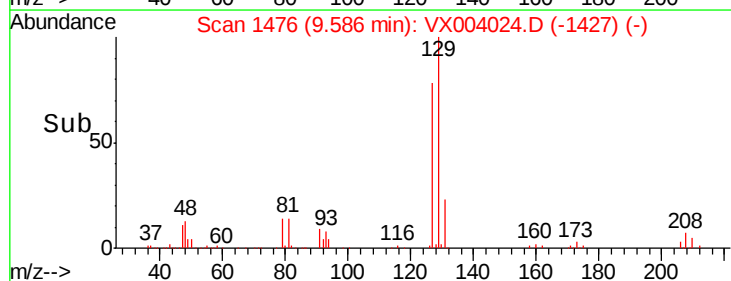
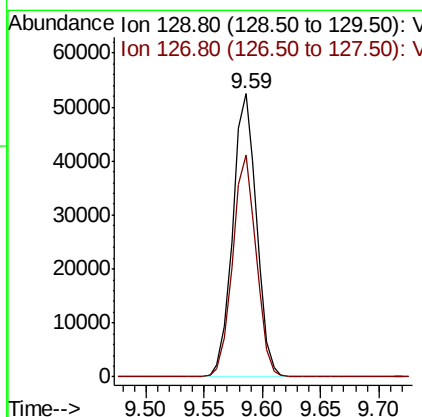
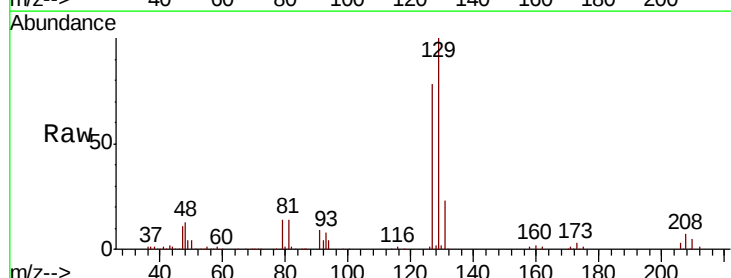
Manual Integrations
APPROVED

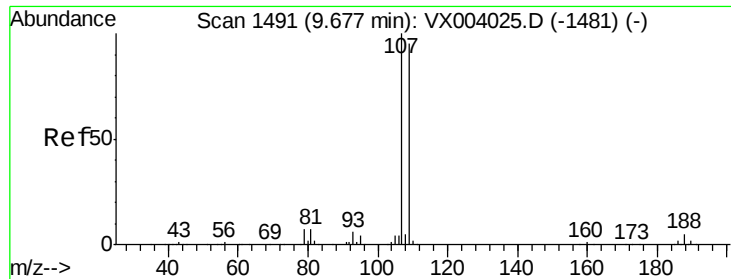
MMDadoda
8/15/2018 4:49:51 PM



#60
Dibromochloromethane
Concen: 20.26 ug/l
RT: 9.59 min Scan# 1476
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.3	38.8	116.3





#61

1,2-Dibromoethane

Concen: 20.64 ug/l

RT: 9.68 min Scan# 1491

Delta R.T. 0.00 min

Lab File: VX004024.D

Acq: 14 Aug 2018 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion:107 Resp: 82046

Ion Ratio Lower Upper

107 100

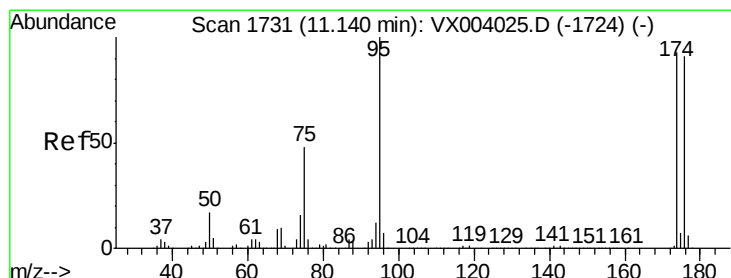
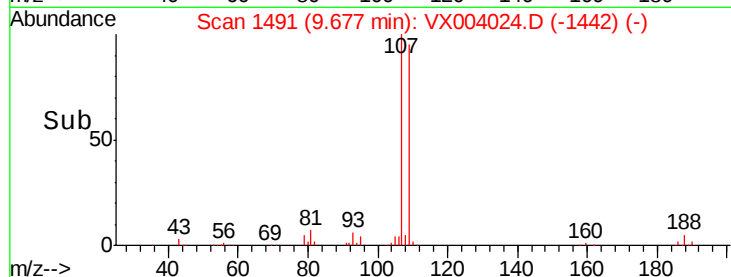
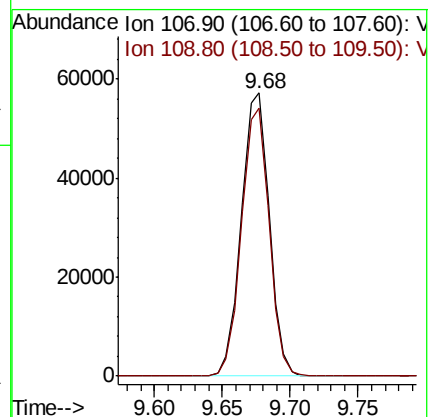
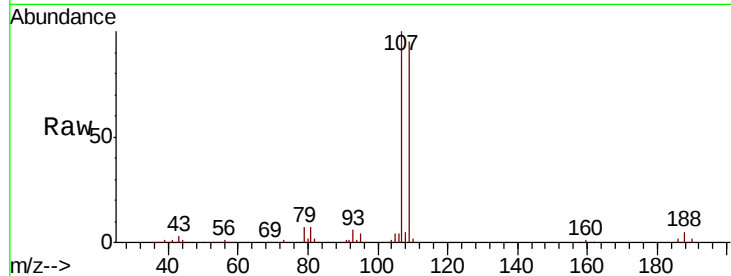
109 93.8 75.8 113.8

Manual Integrations

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MMDadoda

8/15/2018 4:49:51 PM



#62

4-Bromofluorobenzene

Concen: 22.40 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX004024.D

Acq: 14 Aug 2018 11:34

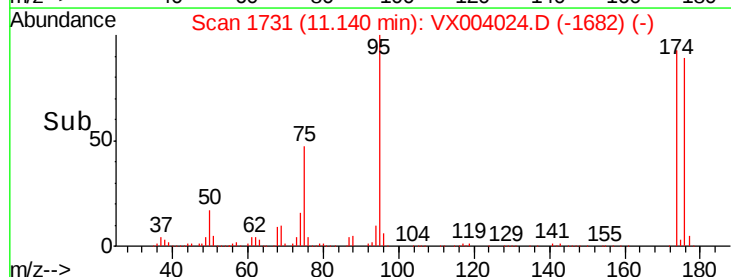
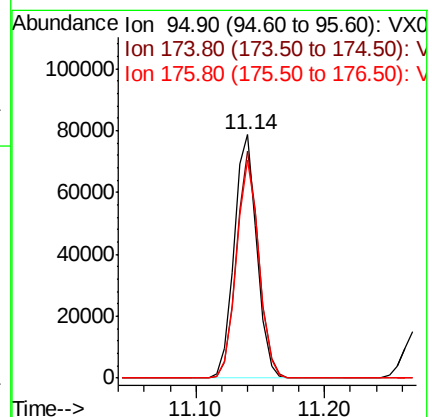
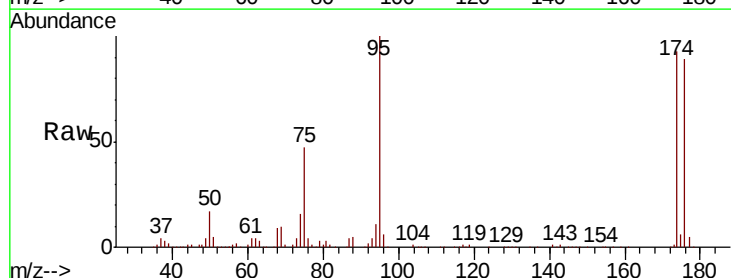
Tgt Ion: 95 Resp: 97649

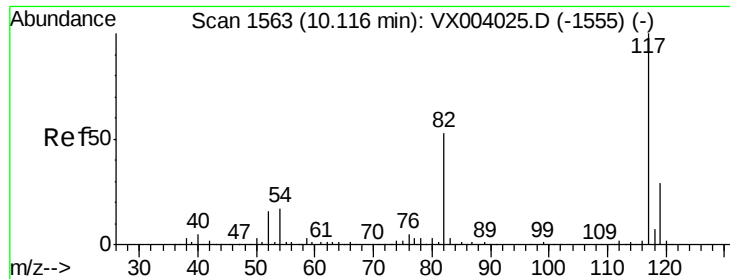
Ion Ratio Lower Upper

95 100

174 90.9 0.0 182.8

176 88.4 0.0 179.0





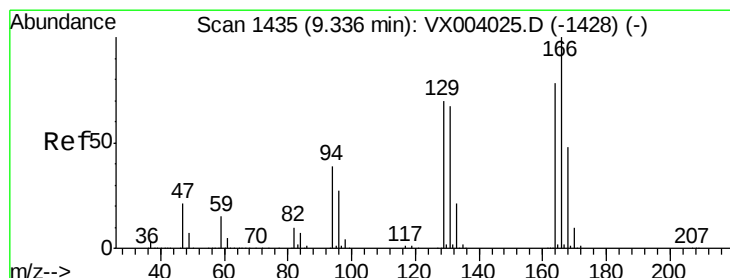
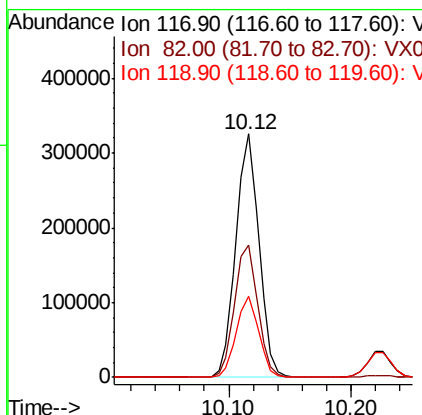
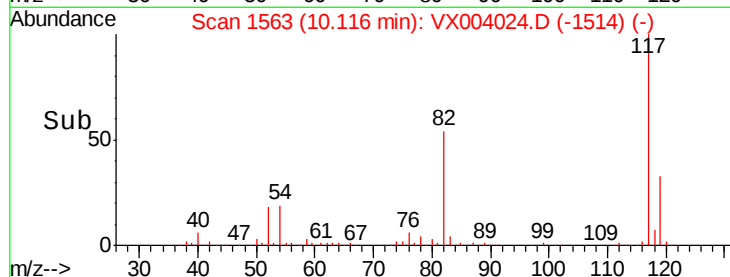
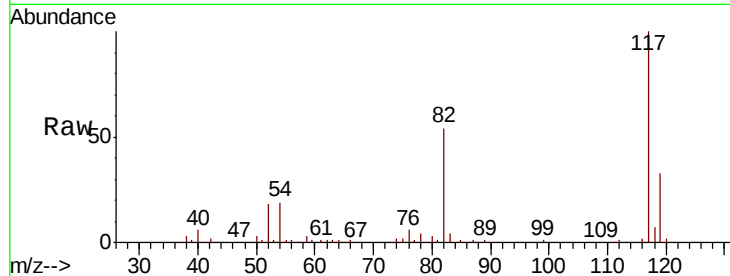
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.1	45.4	68.0
119	33.2	26.6	40.0

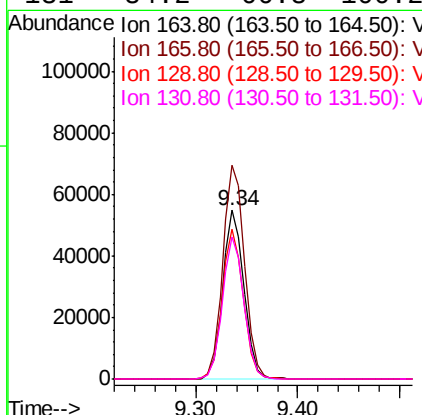
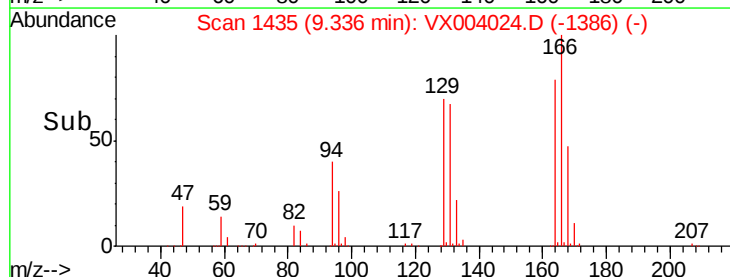
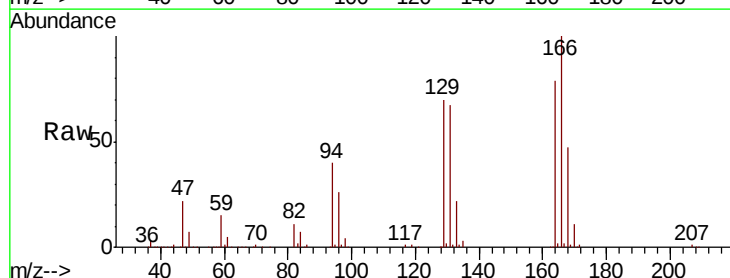
Manual Integrations
APPROVED

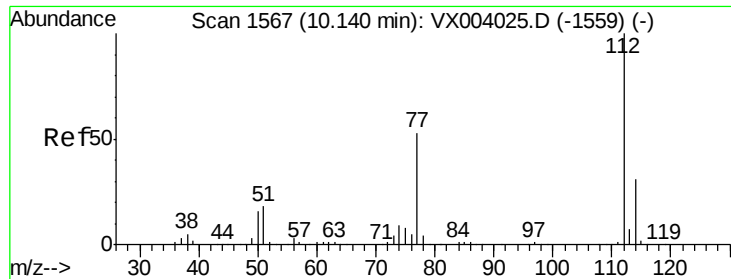
MMDadoda
8/15/2018 4:49:51 PM



#64
Tetrachloroethene
Concen: 18.88 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.5	98.0	147.0
129	88.6	64.3	96.5
131	84.2	66.8	100.2





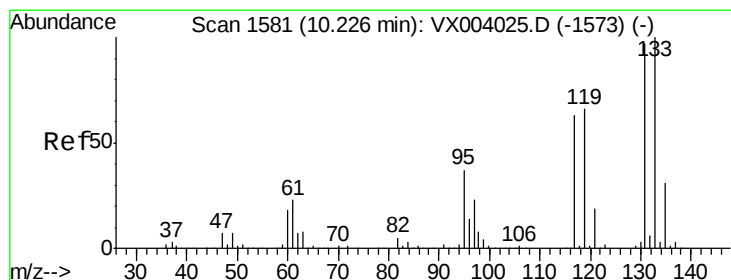
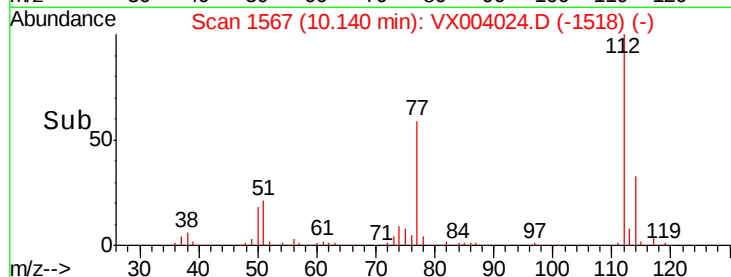
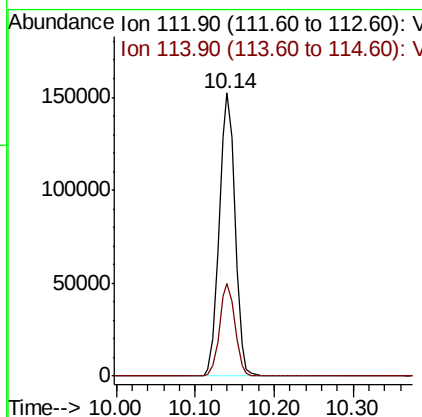
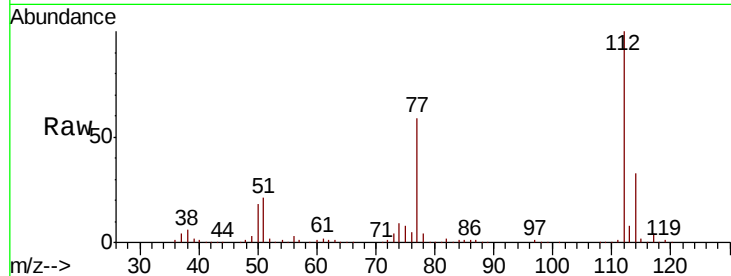
#65
Chlorobenzene
Concen: 19.26 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.8	23.6	35.4

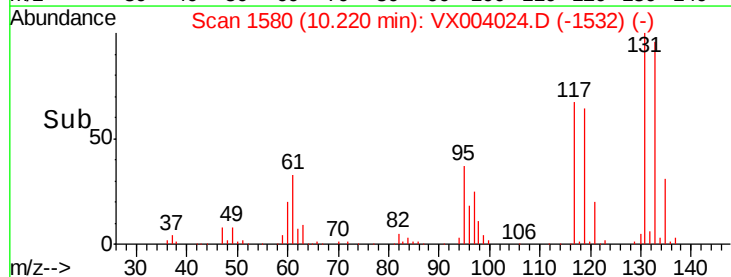
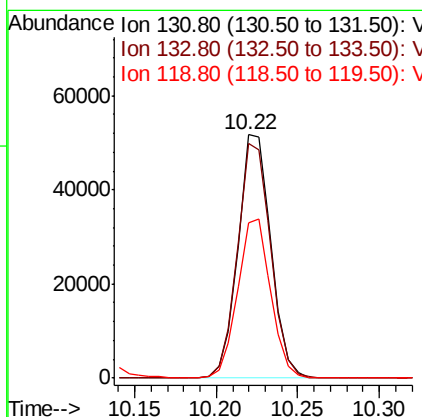
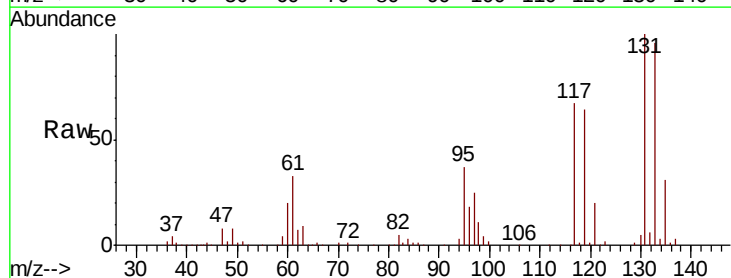
Manual Integrations
APPROVED

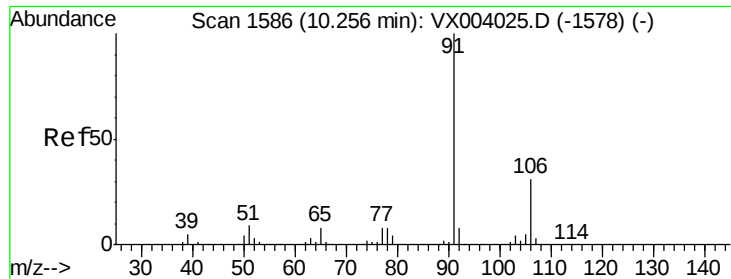
MMDadoda
8/15/2018 4:49:51 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.07 ug/l
RT: 10.22 min Scan# 1580
Delta R.T. -0.01 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Tgt Ion	Ratio	Lower	Upper
131	100		
133	97.6	47.3	141.8
119	65.9	31.6	94.8





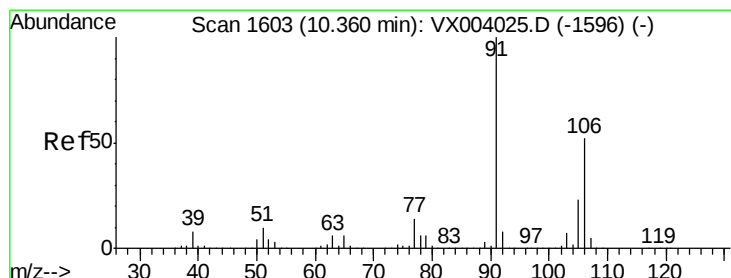
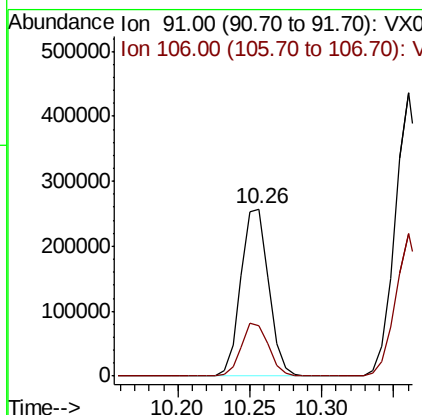
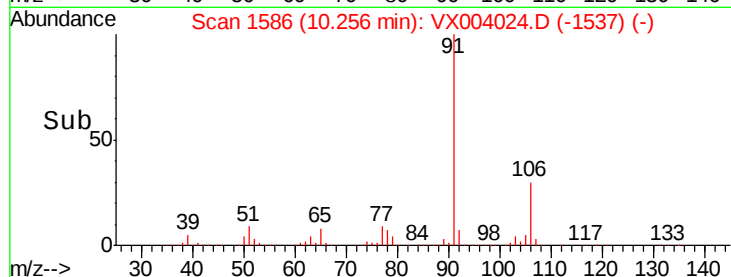
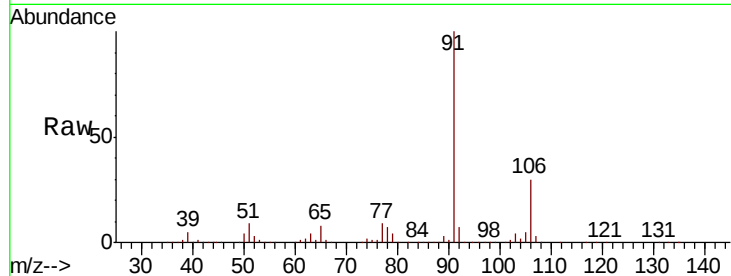
#67
Ethyl Benzene
Concen: 19.05 ug/l
RT: 10.26 min Scan# 1586
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Instrument :
MSVOA_X
ClientSampleID :
VSTDIC020

Tot Ion: 91 Resp: 345116
Ion Ratio Lower Upper
91 100
106 30.2 25.9 38.9

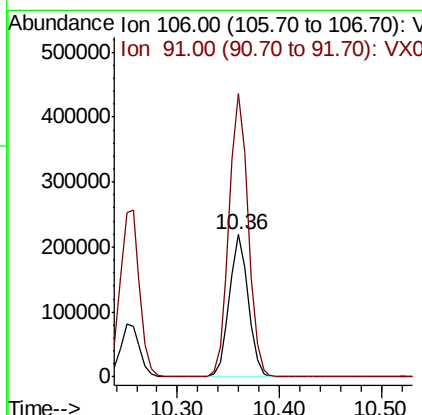
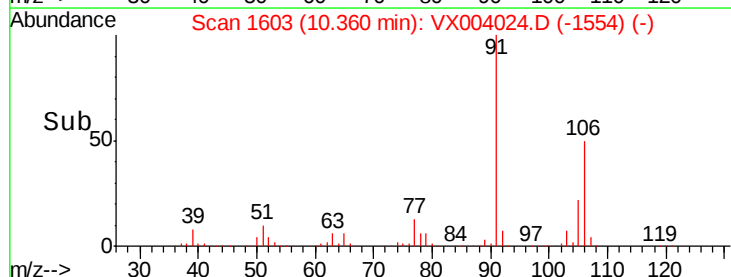
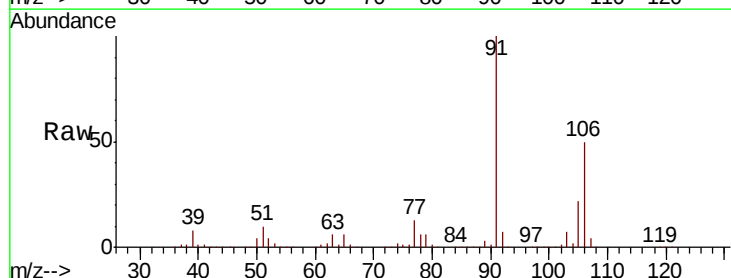
Manual Integrations
APPROVED

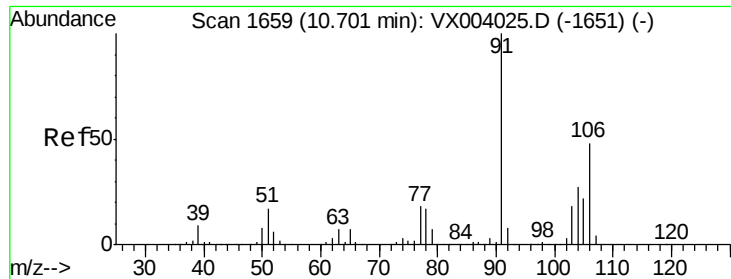
MMDadoda
8/15/2018 4:49:51 PM



#68
m/p-Xylenes
Concen: 39.35 ug/l
RT: 10.36 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Tgt Ion: 106 Resp: 278490
Ion Ratio Lower Upper
106 100
91 202.8 162.3 243.5





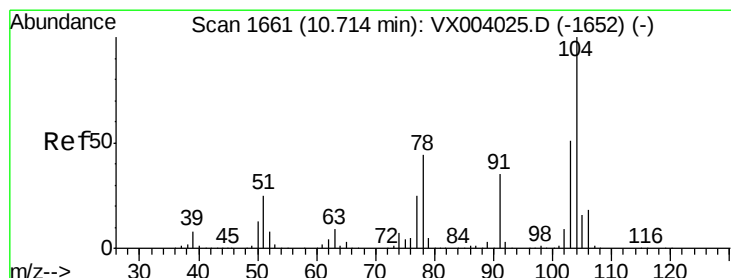
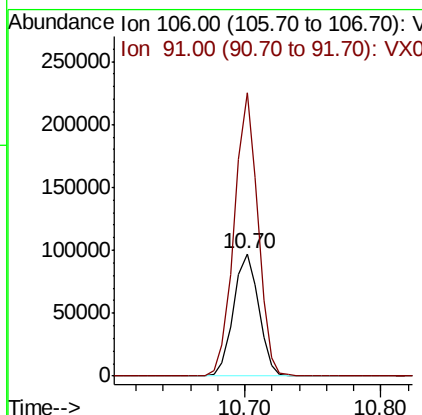
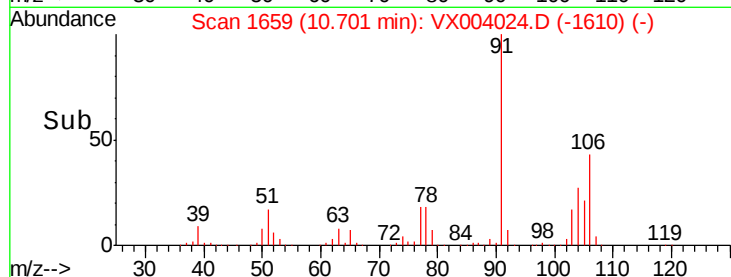
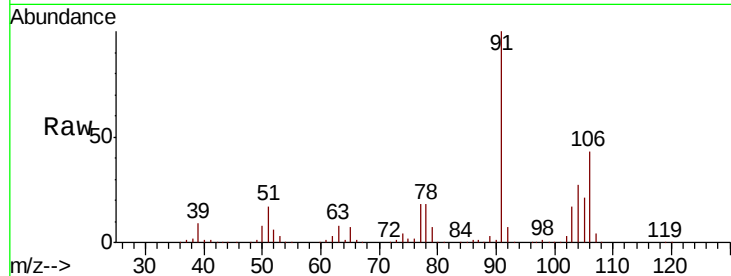
#69
o-Xylene
Concen: 18.85 ug/l
RT: 10.70 min Scan# 1659
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Instrument :
MSVOA_X
ClientSampleID :
VSTDIC020

Tot Ion	Ion	Ratio	Lower	Upper
106	100			
91	217.0	101.9	305.7	

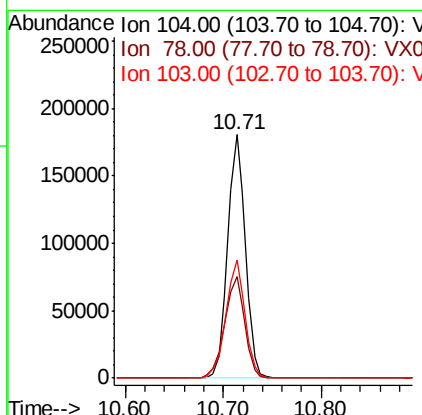
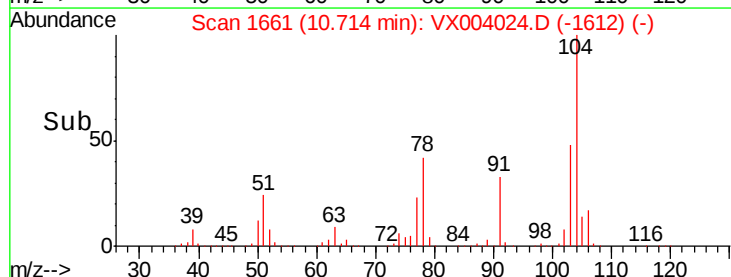
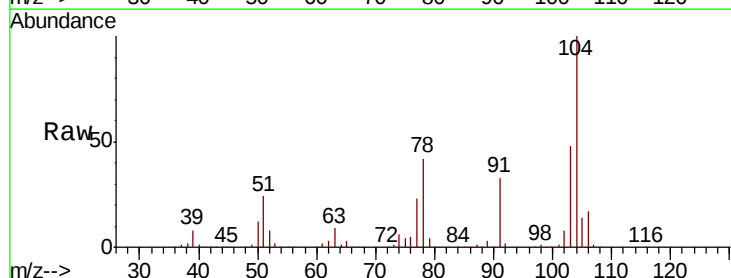
Manual Integrations
APPROVED

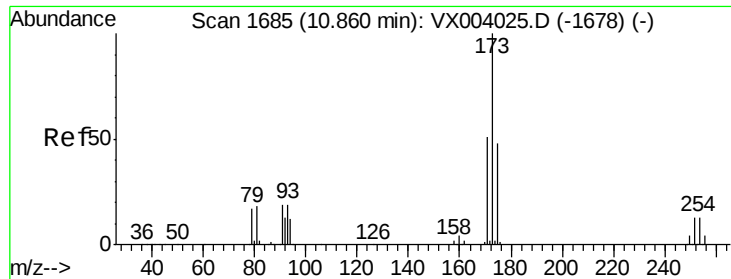
MMDadoda
8/15/2018 4:49:51 PM



#70
Styrene
Concen: 20.86 ug/l
RT: 10.71 min Scan# 1661
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Tgt Ion	Ion	Ratio	Lower	Upper
104	100			
78	46.8	39.8	59.6	
103	52.1	44.3	66.5	





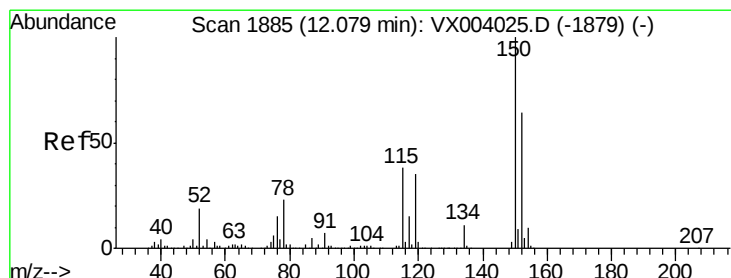
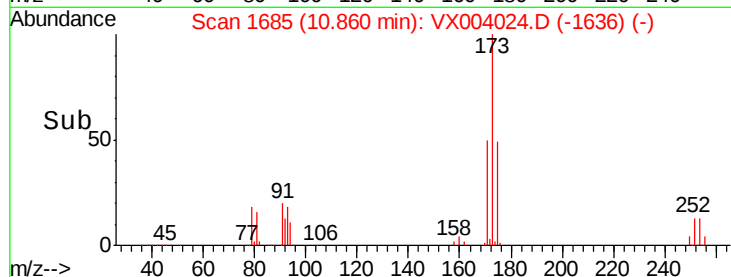
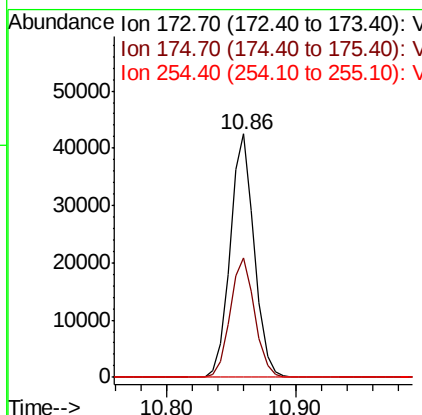
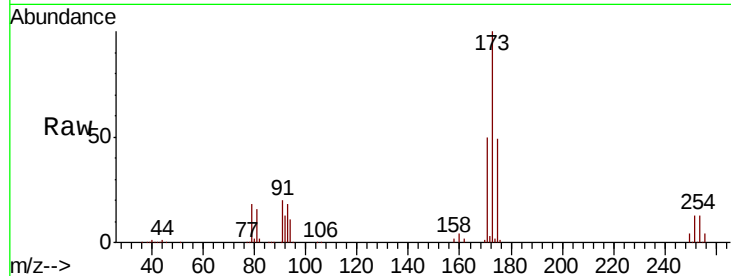
#71
Bromoform
Concen: 19.44 ug/l
RT: 10.86 min Scan# 1685
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Instrument :
MSVOA_X
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
173	100		
175	50.3	24.9	74.7
254	0.1	0.2	0.2

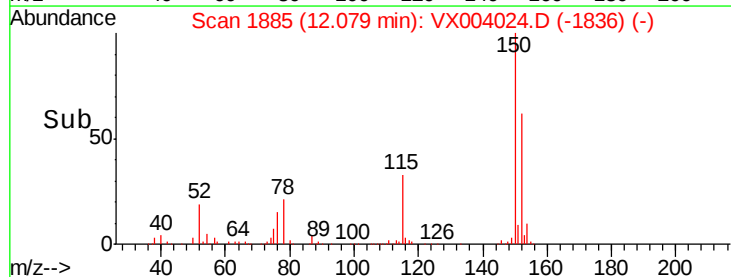
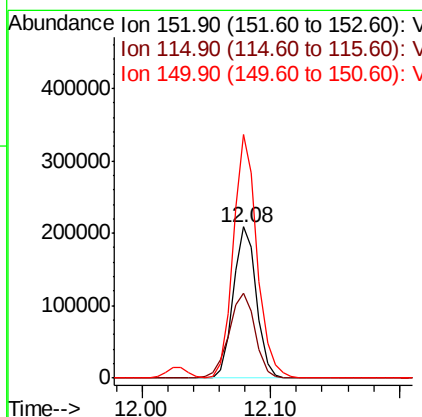
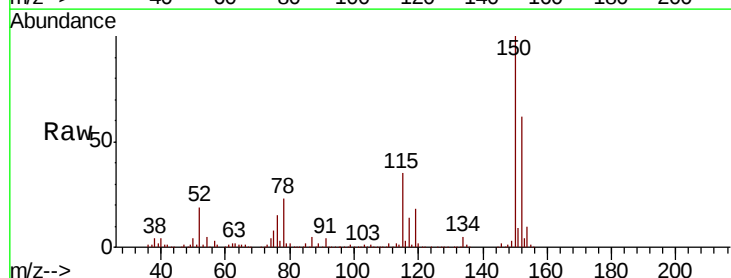
Manual Integrations
APPROVED

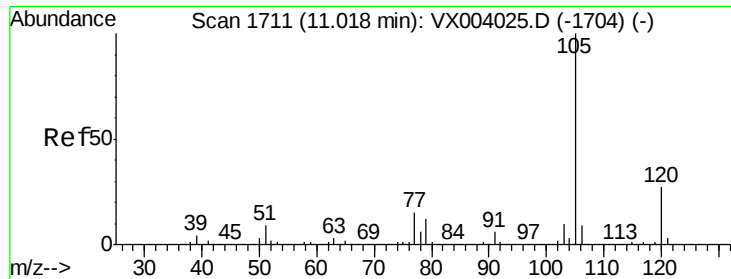
MMDadoda
8/15/2018 4:49:51 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Tgt Ion	Ratio	Lower	Upper
152	100		
115	63.7	39.1	117.3
150	165.4	0.0	349.2





#73

Isopropylbenzene

Concen: 18.88 ug/l

RT: 11.02 min Scan# 1711

Delta R.T. 0.00 min

Lab File: VX004024.D

Acq: 14 Aug 2018 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion: 105 Resp: 364625

Ion Ratio Lower Upper

105 100

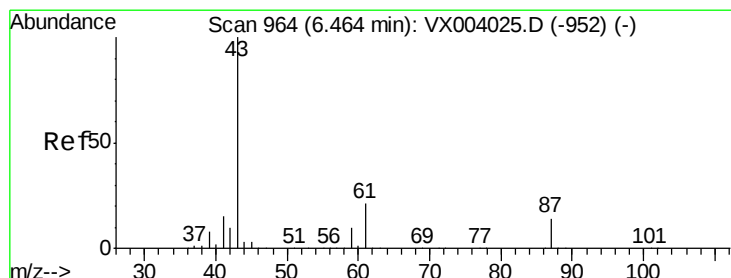
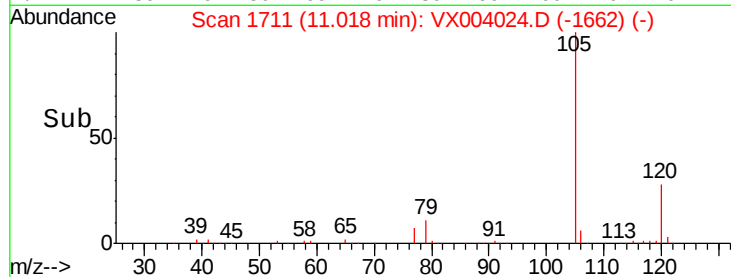
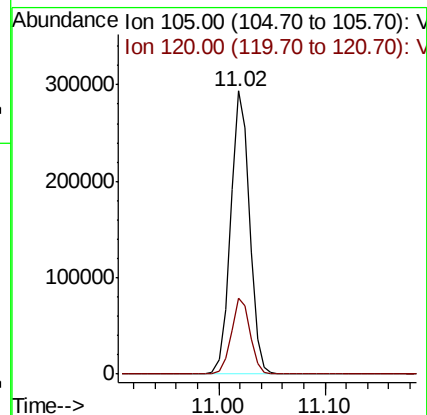
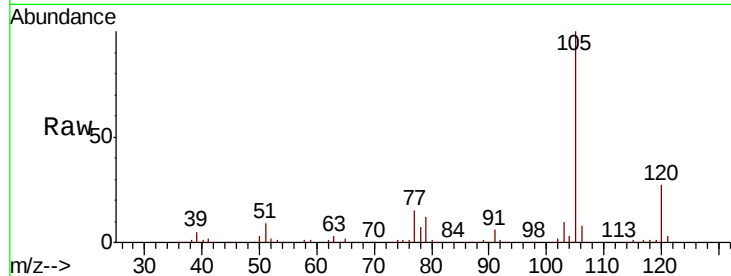
120 26.6 12.6 37.8

Manual Integrations

APPROVED

MMDadoda

8/15/2018 4:49:51 PM



#74

N-ethyl acetate

Concen: 15.99 ug/l

RT: 6.46 min Scan# 964

Delta R.T. 0.00 min

Lab File: VX004024.D

Acq: 14 Aug 2018 11:34

Tgt Ion: 43 Resp: 160592

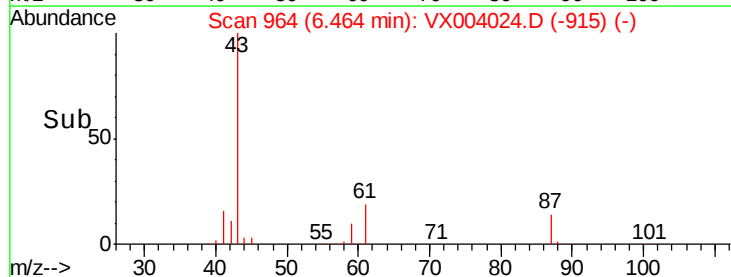
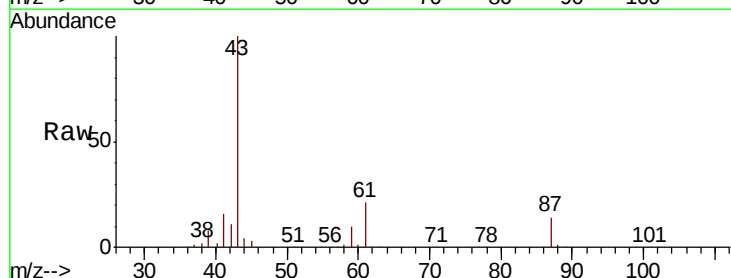
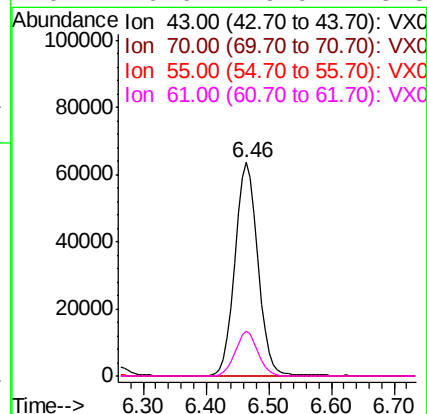
Ion Ratio Lower Upper

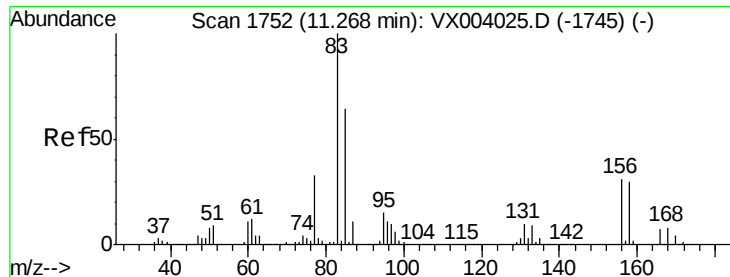
43 100

70 0.0 0.0 0.0#

55 0.1 0.1 0.1#

61 20.6 16.9 25.3





#75

1,1,2,2-Tetrachloroethane

Concen: 18.27 ug/l

RT: 11.27 min Scan# 1752

Delta R.T. 0.00 min

Lab File: VX004024.D

Acq: 14 Aug 2018 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion: 83 Resp: 120932

Ion Ratio Lower Upper

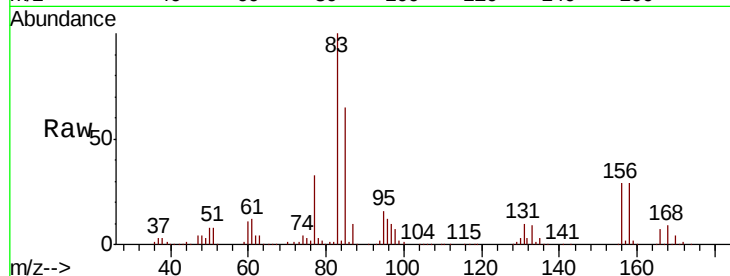
83 100

131 10.4 5.2 15.6

85 63.9 32.2 96.6

Manual Integrations
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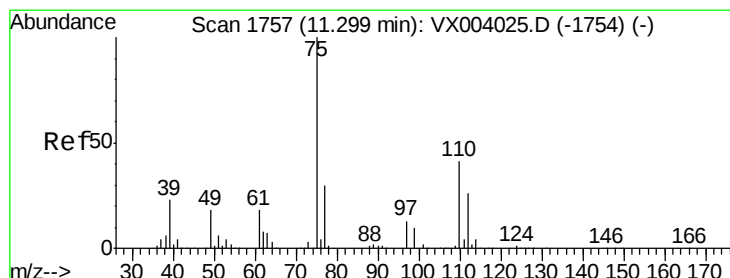
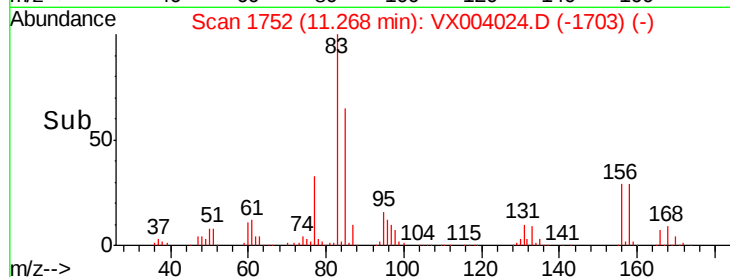
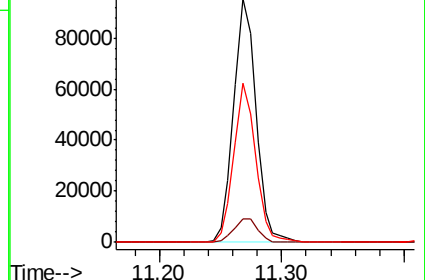
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Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 18.26 ug/l m

RT: 11.30 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VX004024.D

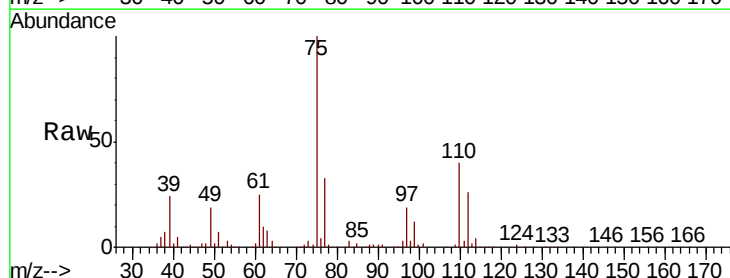
Acq: 14 Aug 2018 11:34

Tgt Ion: 75 Resp: 105286

Ion Ratio Lower Upper

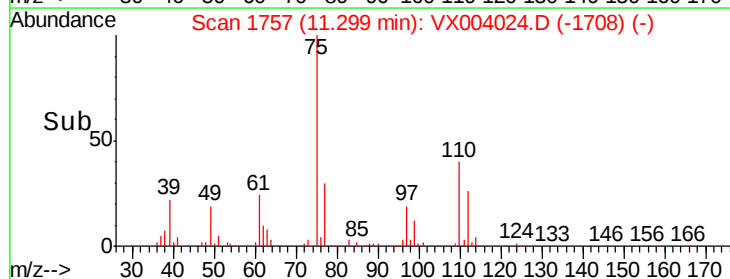
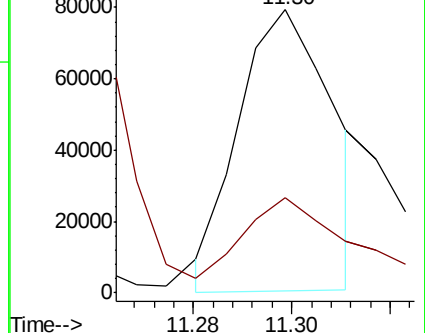
75 100

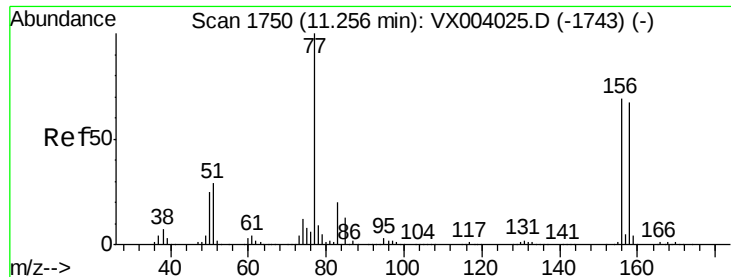
77 40.7 20.8 62.5



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#77

Bromobenzene

Concen: 18.73 ug/l

RT: 11.26 min Scan# 1750

Delta R.T. 0.00 min

Lab File: VX004024.D

Acq: 14 Aug 2018 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion:156 Resp: 96513

Ion Ratio Lower Upper

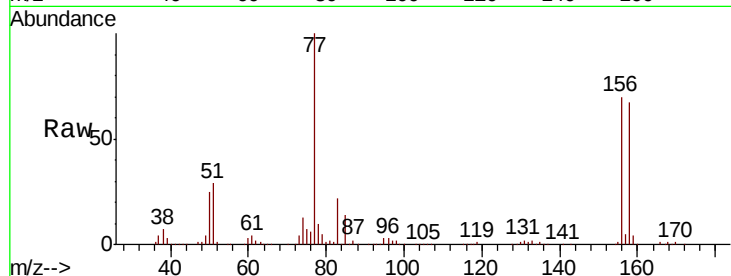
156 100

77 147.2 74.1 222.2

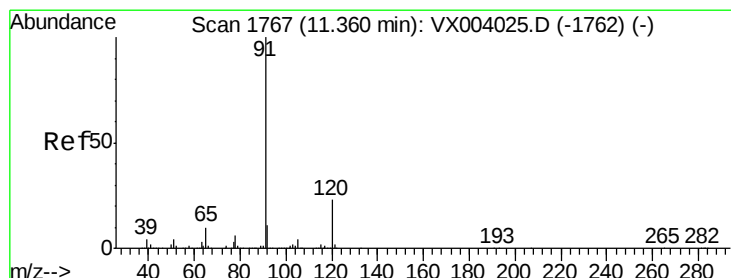
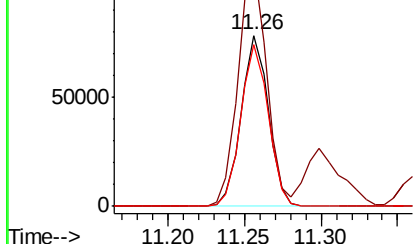
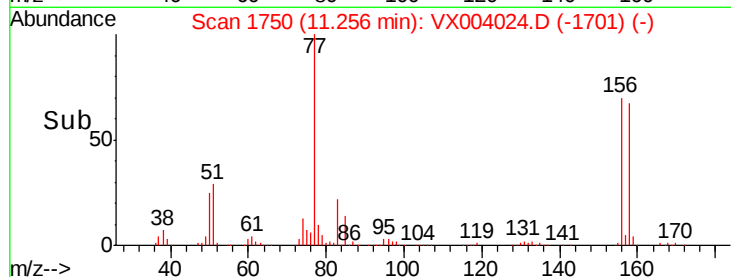
158 96.5 48.6 145.9

Manual Integrations
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Abundance Ion 155.80 (155.50 to 156.50): V
150000 Ion 77.00 (76.70 to 77.70): VX0
Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 18.78 ug/l

RT: 11.36 min Scan# 1767

Delta R.T. 0.00 min

Lab File: VX004024.D

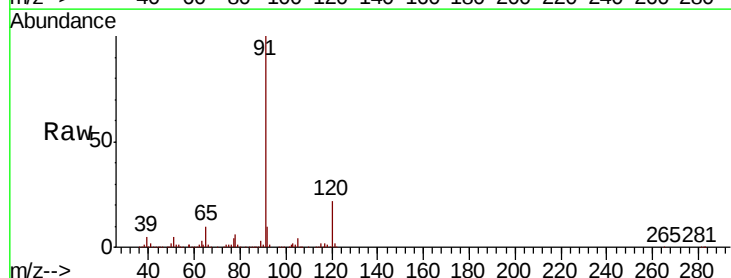
Acq: 14 Aug 2018 11:34

Tgt Ion: 91 Resp: 407175

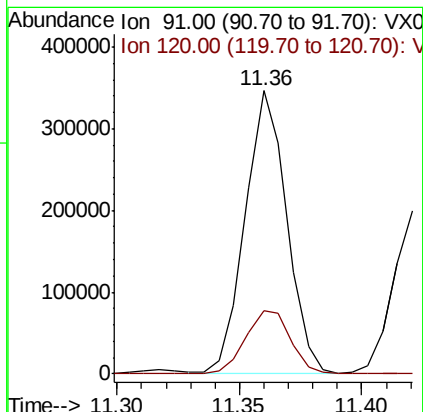
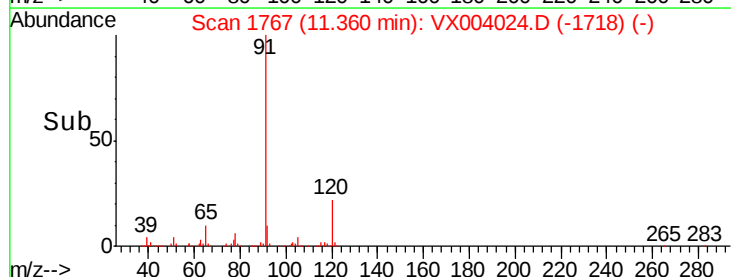
Ion Ratio Lower Upper

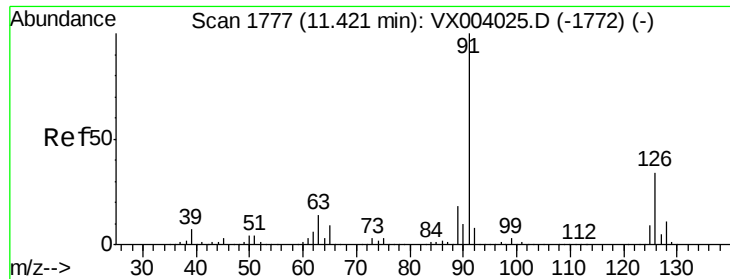
91 100

120 24.1 11.9 35.5



Abundance Ion 91.00 (90.70 to 91.70): VX0
400000 Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 18.78 ug/l

RT: 11.42 min Scan# 1777

Delta R.T. 0.00 min

Lab File: VX004024.D

Acq: 14 Aug 2018 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 248351

Ion Ratio Lower Upper

91 100

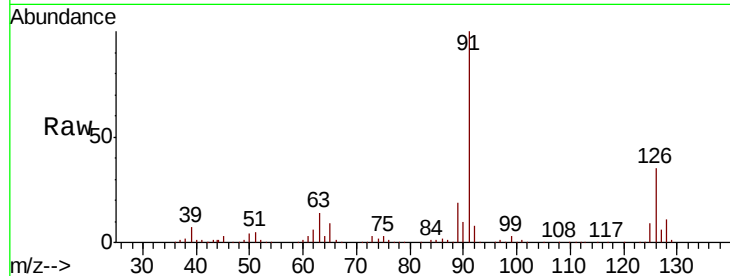
126 34.2 17.4 52.3

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VX004025.D (-1772) (-)

Ion 125.90 (125.60 to 126.60): VX004025.D (-1772) (-)

400000

300000

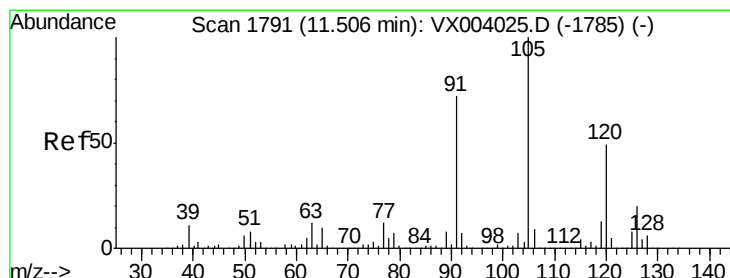
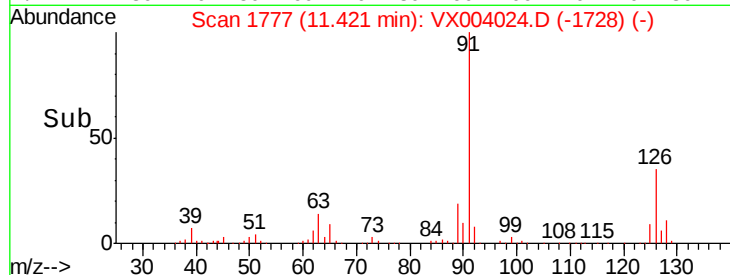
200000

100000

0

11.40 11.45

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 19.25 ug/l

RT: 11.51 min Scan# 1791

Delta R.T. 0.00 min

Lab File: VX004024.D

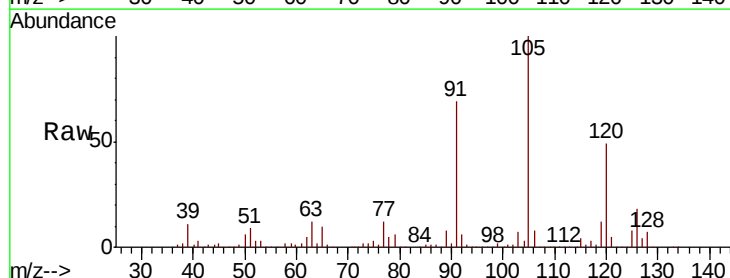
Acq: 14 Aug 2018 11:34

Tgt Ion:105 Resp: 303077

Ion Ratio Lower Upper

105 100

120 49.2 25.4 76.2



Abundance Ion 105.00 (104.70 to 105.70): VX004025.D (-1785) (-)

Ion 120.00 (119.70 to 120.70): VX004025.D (-1785) (-)

300000

250000

200000

150000

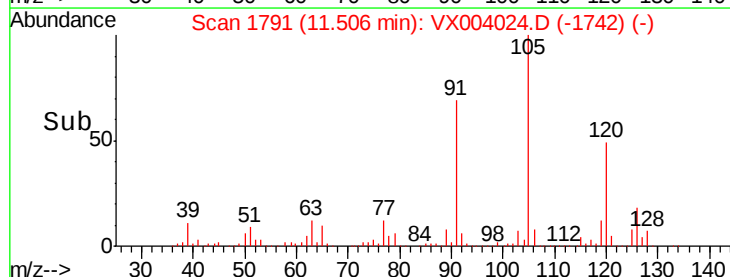
100000

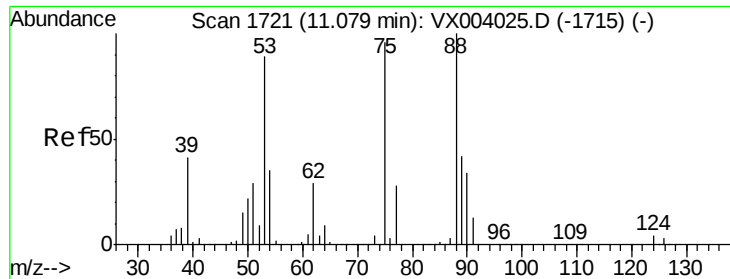
50000

0

11.40 11.50 11.60

Time-->





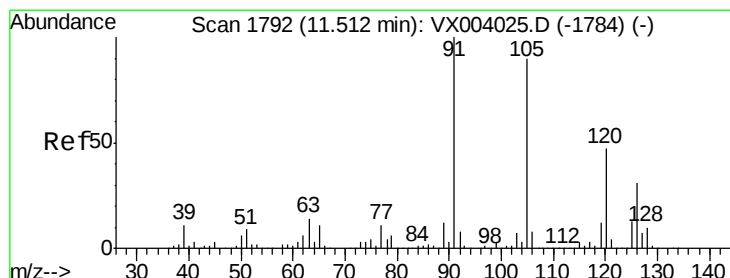
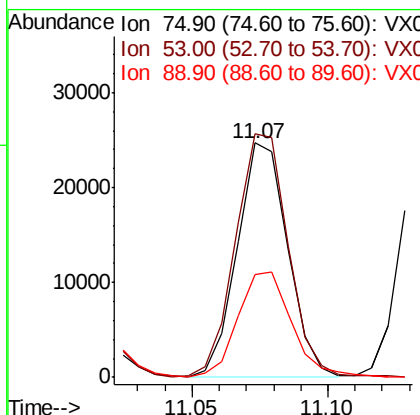
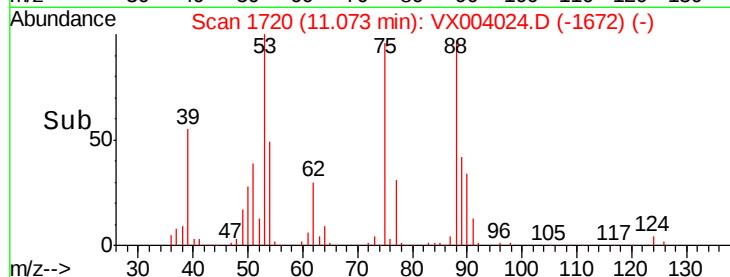
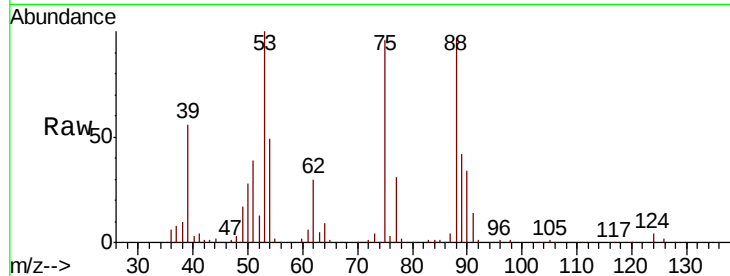
#81
trans-1,4-Dichloro-2-butene
Concen: 16.71 ug/l
RT: 11.07 min Scan# 1720
Delta R.T. -0.01 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
53	108.6	80.3	120.5
89	47.9	37.8	56.8

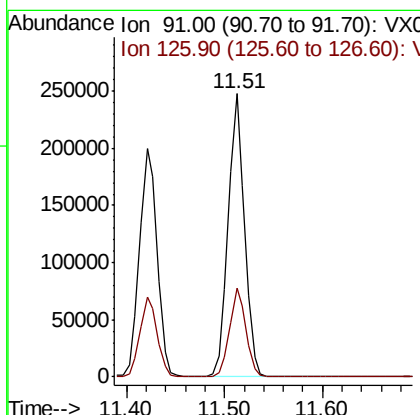
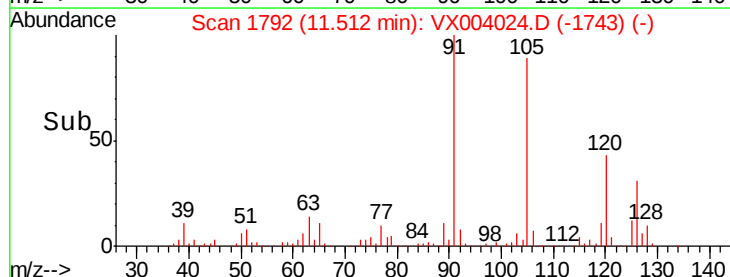
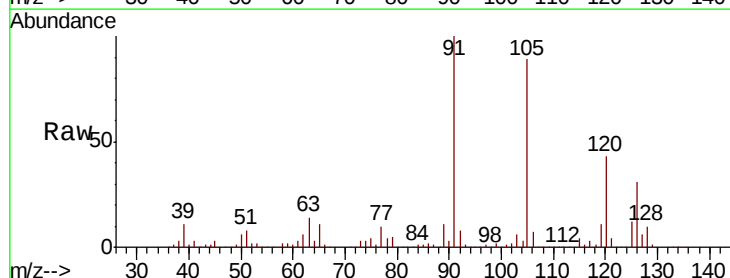
Manual Integrations
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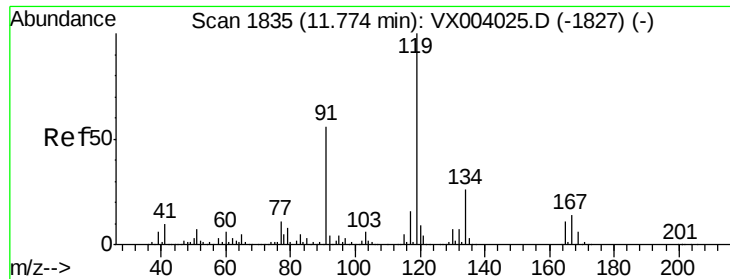
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#82
4-Chlorotoluene
Concen: 18.60 ug/l
RT: 11.51 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.2	15.6	46.7





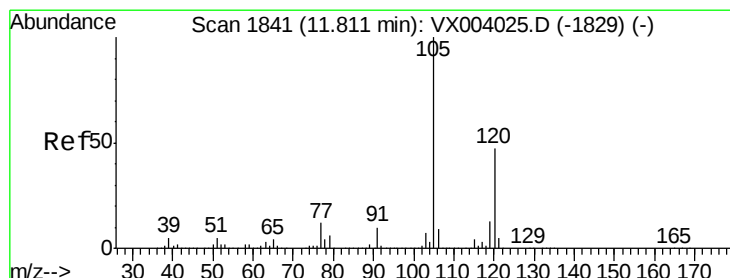
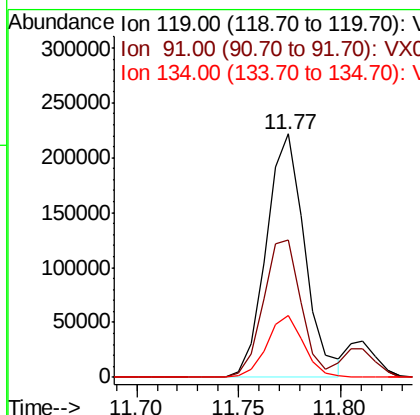
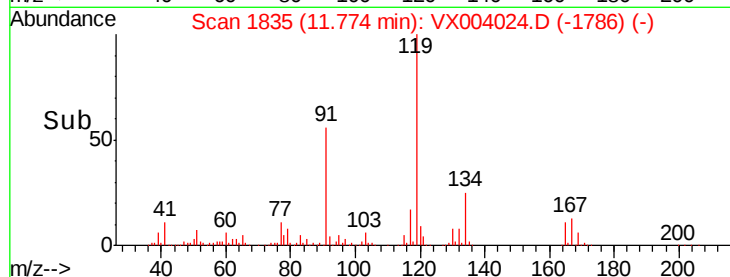
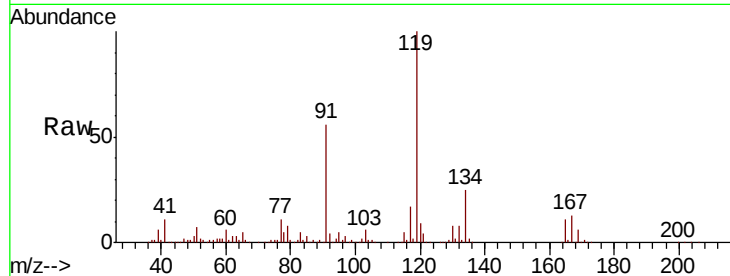
#83
tert-Butylbenzene
Concen: 18.87 ug/l
RT: 11.77 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	292253		
91	54.9	26.9	80.7	
134	24.1	12.0	36.0	

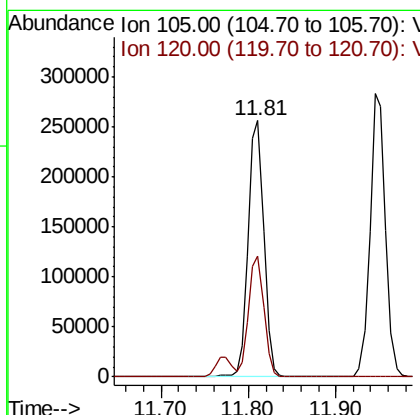
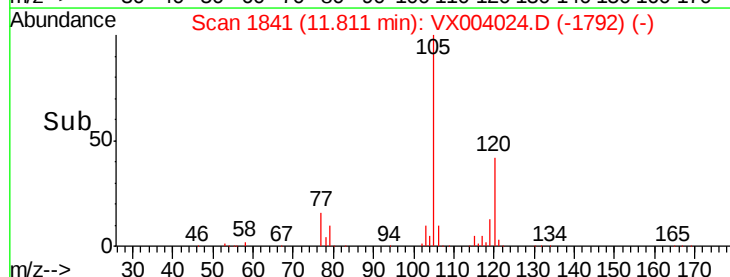
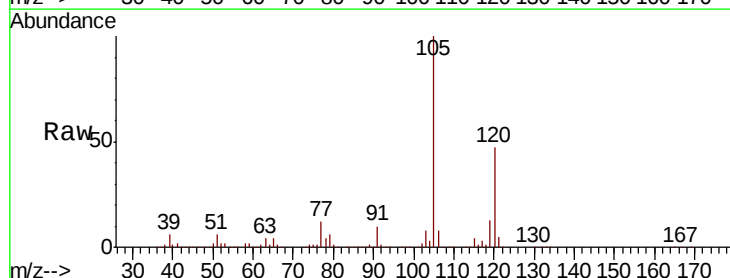
Manual Integrations
APPROVED

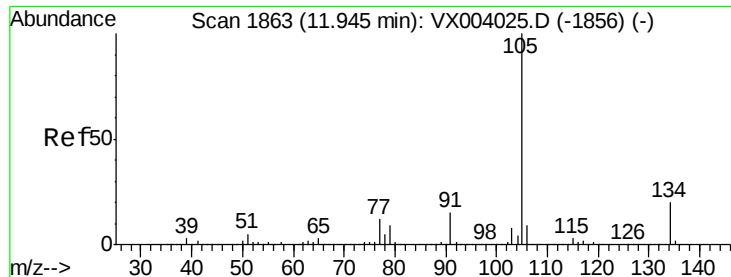
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#84
1,2,4-Trimethylbenzene
Concen: 19.92 ug/l
RT: 11.81 min Scan# 1841
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	315328		
120	46.2	23.1	69.2	





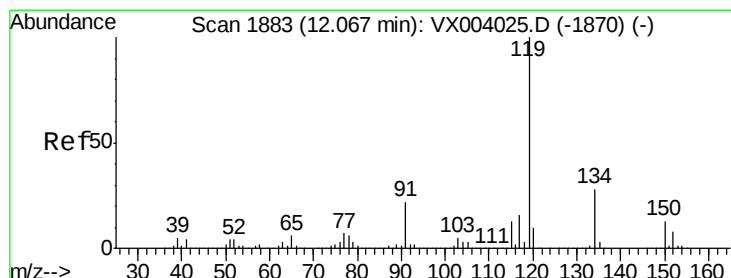
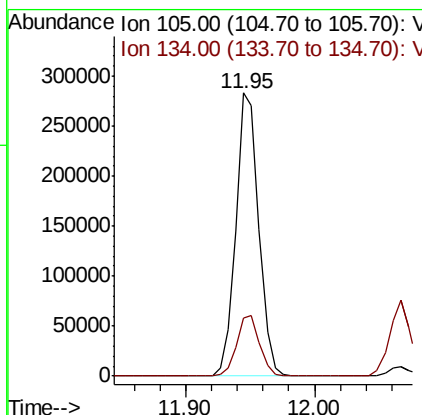
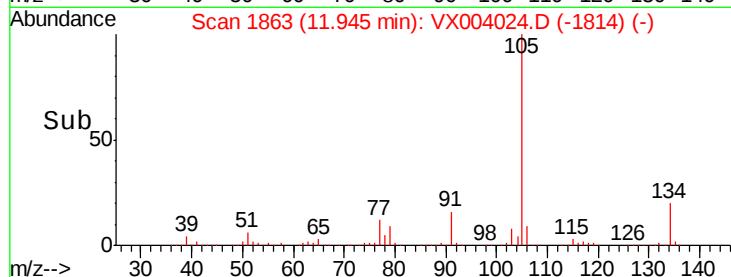
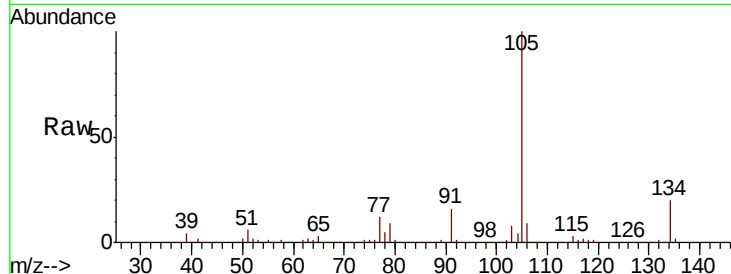
#85
 sec-Butylbenzene
 Concen: 19.16 ug/l
 RT: 11.95 min Scan# 1863
 Delta R.T. 0.00 min
 Lab File: VX004024.D
 Acq: 14 Aug 2018 11:34

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
105	100		
134	21.3	10.3	30.9

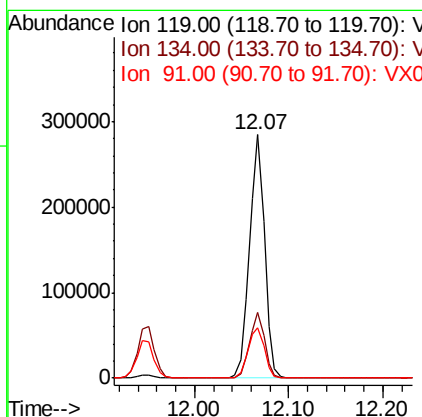
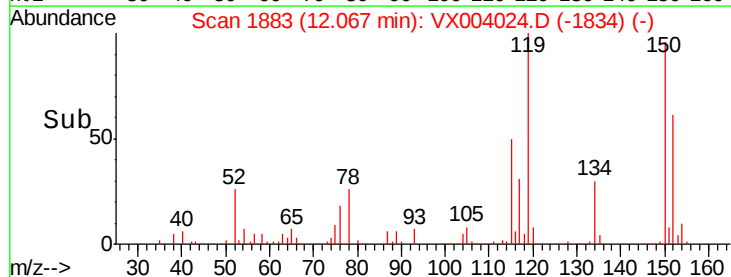
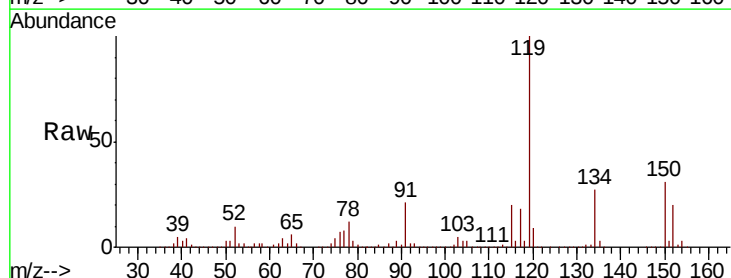
Manual Integrations
 APPROVED

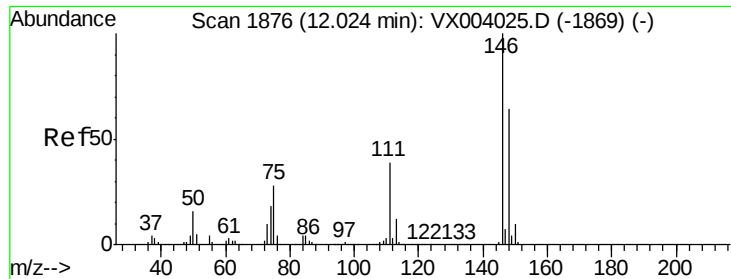
MMDadoda
 8/15/2018 4:49:51 PM



#86
 p-Isopropyltoluene
 Concen: 19.44 ug/l
 RT: 12.07 min Scan# 1883
 Delta R.T. 0.00 min
 Lab File: VX004024.D
 Acq: 14 Aug 2018 11:34

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.7	13.3	39.8
91	22.2	10.9	32.7





#87

1,3-Dichlorobenzene

Concen: 18.80 ug/l

RT: 12.02 min Scan# 1876

Delta R.T. 0.00 min

Lab File: VX004024.D

Acq: 14 Aug 2018 11:34

Instrument :

MSVOA_X

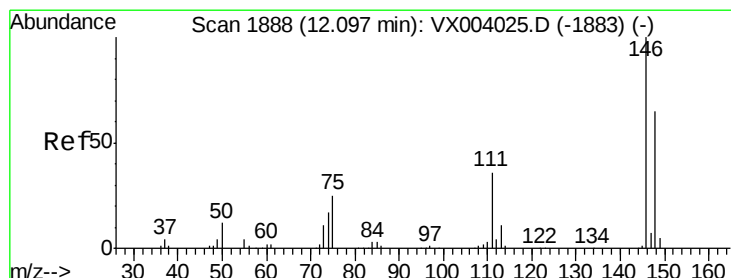
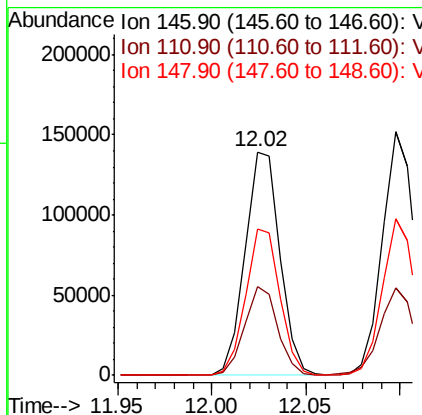
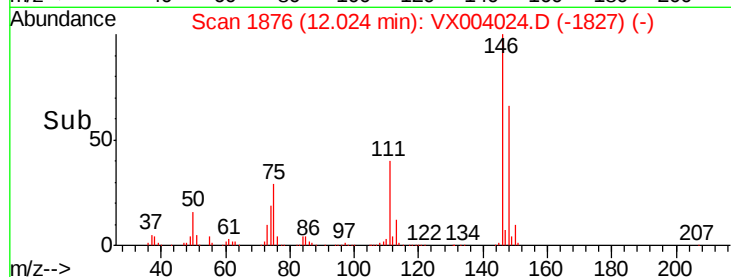
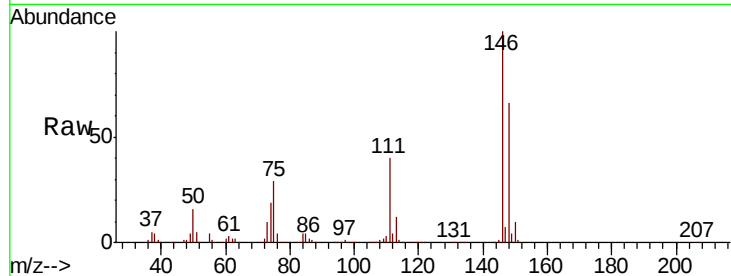
ClientSampleId :

VSTDIC020

Tot Ion:	146	Resp:	179011
Ion Ratio	Lower	Upper	
146	100		
111	37.8	18.8	56.4
148	64.5	31.9	95.5

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 18.67 ug/l

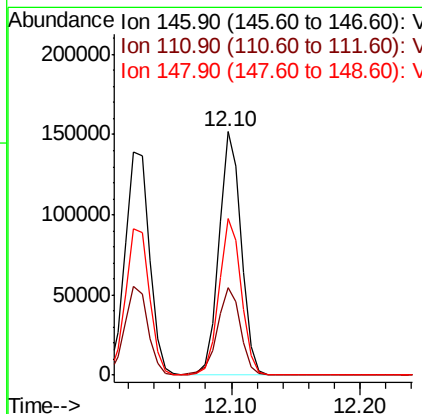
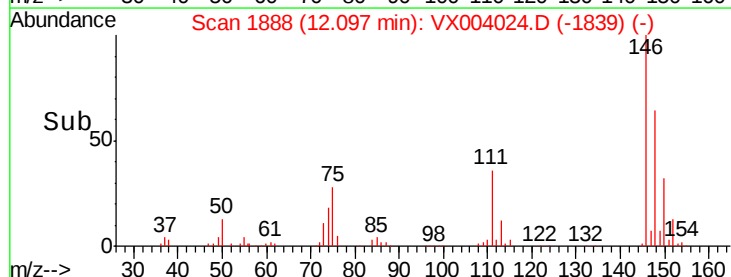
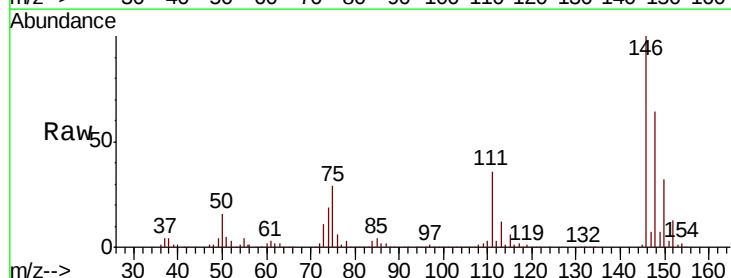
RT: 12.10 min Scan# 1888

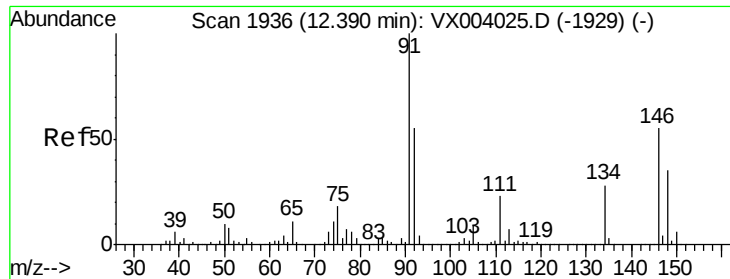
Delta R.T. 0.00 min

Lab File: VX004024.D

Acq: 14 Aug 2018 11:34

Tgt Ion:	146	Resp:	184429
Ion Ratio	Lower	Upper	
146	100		
111	37.3	18.4	55.0
148	64.3	32.3	96.8





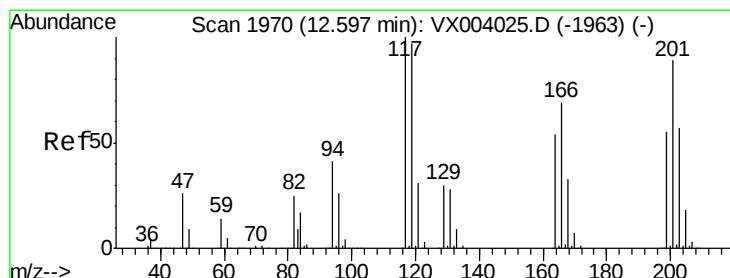
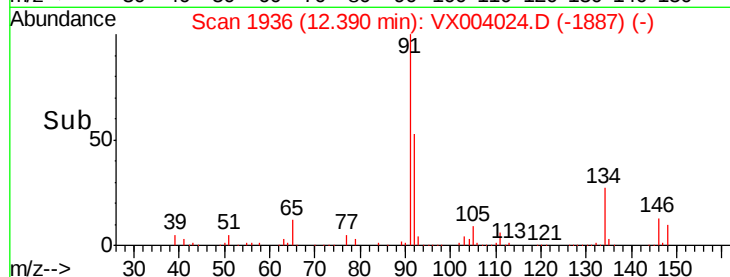
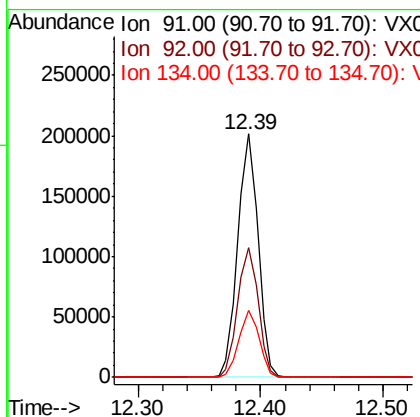
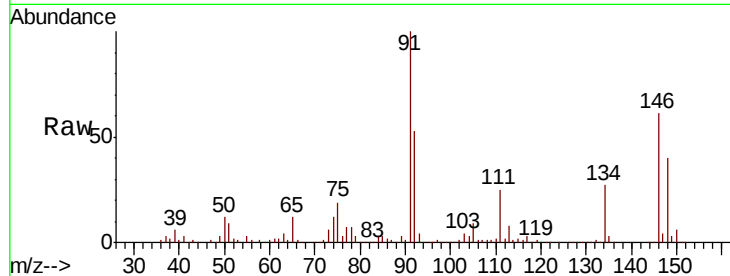
#89
n-Butylbenzene
Concen: 16.17 ug/l
RT: 12.39 min Scan# 1936
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.9	27.1	81.3
134	27.5	13.6	40.7

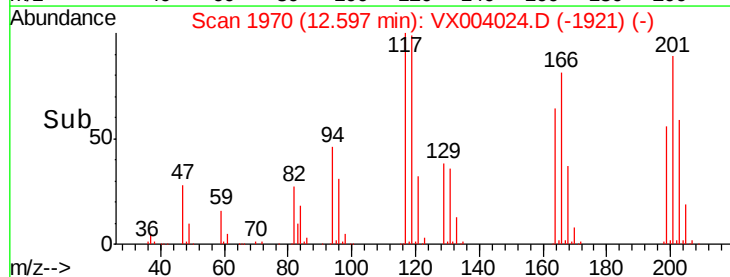
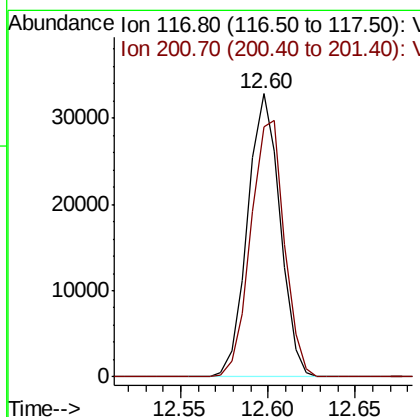
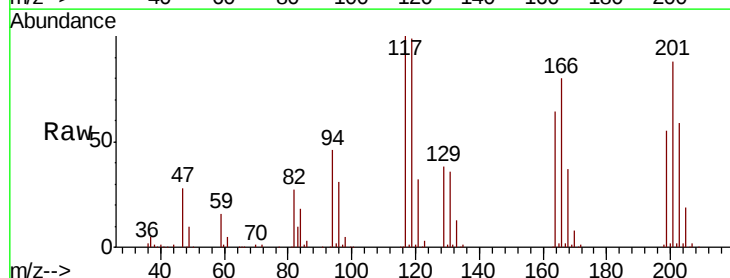
Manual Integrations
APPROVED

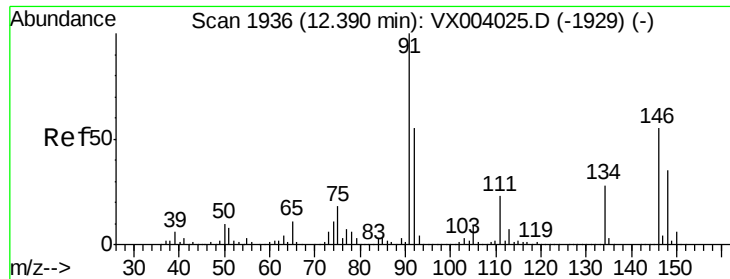
MMDadoda
8/15/2018 4:49:51 PM



#90
Hexachloroethane
Concen: 15.89 ug/l
RT: 12.60 min Scan# 1970
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Tgt Ion	Ratio	Lower	Upper
117	100		
201	93.9	46.1	138.2





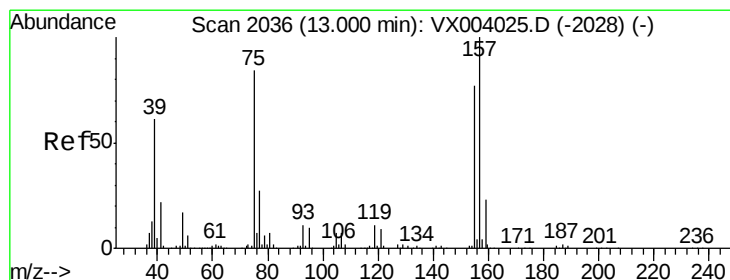
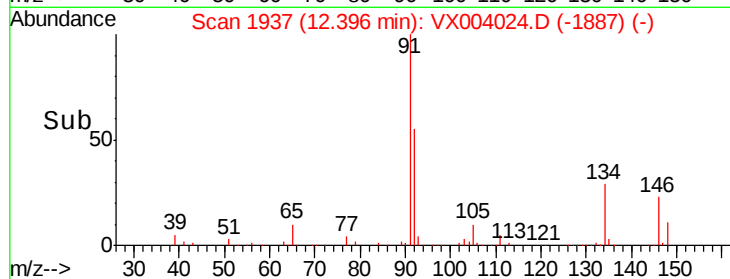
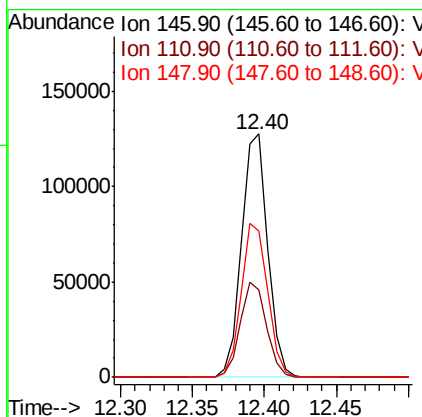
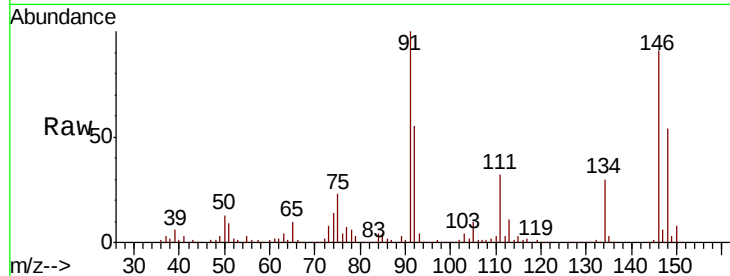
#91
 1,2-Dichlorobenzene
 Concen: 16.96 ug/l
 RT: 12.40 min Scan# 1937
 Delta R.T. 0.01 min
 Lab File: VX004024.D
 Acq: 14 Aug 2018 11:34

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.1	19.7	59.0
148	64.1	31.9	95.5

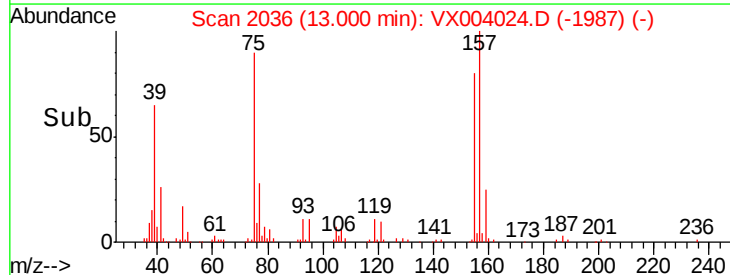
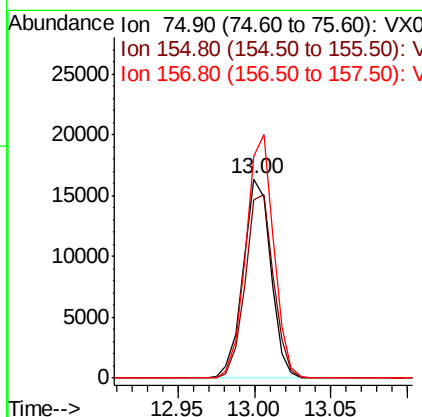
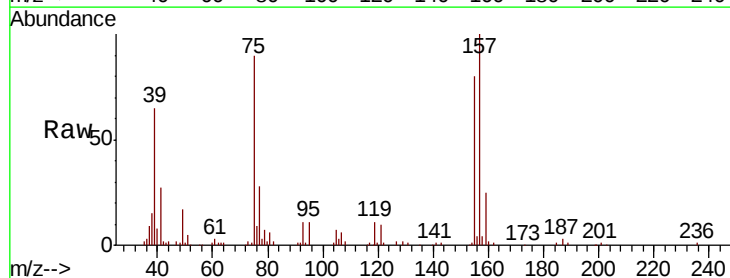
Manual Integrations
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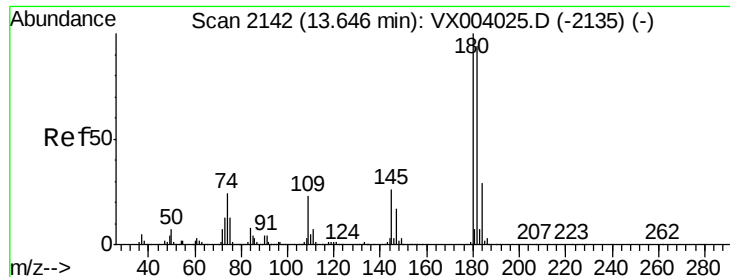
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 15.14 ug/l
 RT: 13.00 min Scan# 2036
 Delta R.T. 0.00 min
 Lab File: VX004024.D
 Acq: 14 Aug 2018 11:34

Tgt Ion	Ratio	Lower	Upper
75	100		
155	94.2	48.7	146.1
157	122.0	62.6	187.8





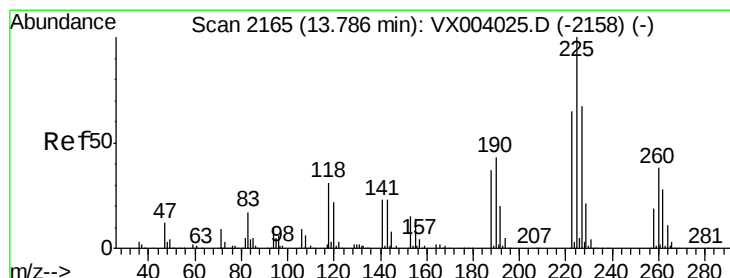
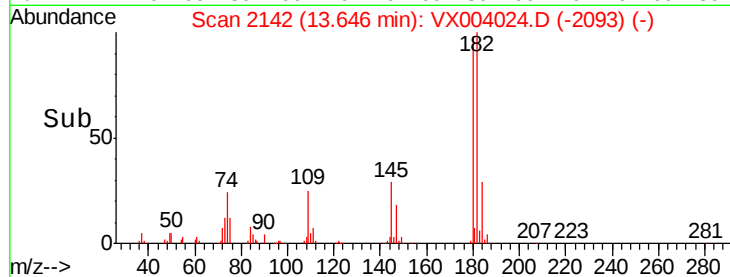
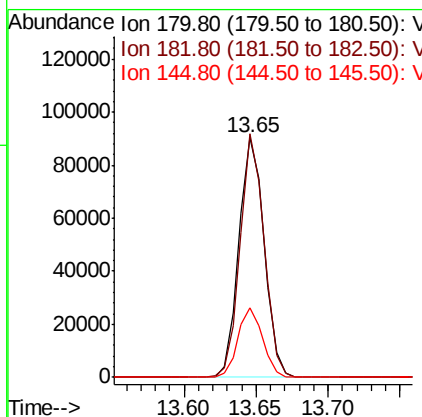
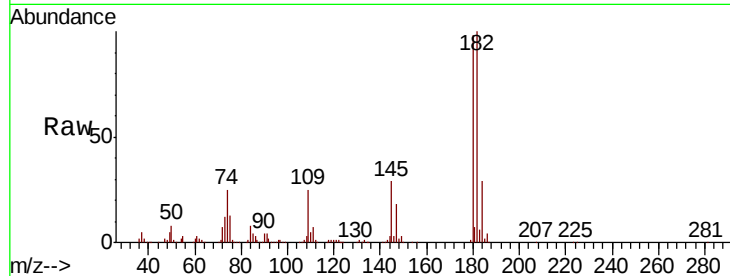
#93
 1,2,4-Trichlorobenzene
 Concen: 16.25 ug/l
 RT: 13.65 min Scan# 2142
 Delta R.T. 0.00 min
 Lab File: VX004024.D
 Acq: 14 Aug 2018 11:34

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	96.1	47.7	143.1	
145	28.5	13.9	41.6	

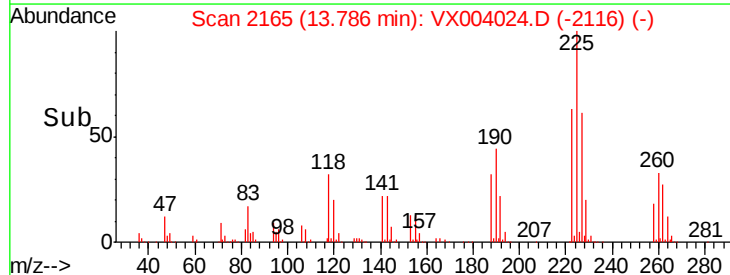
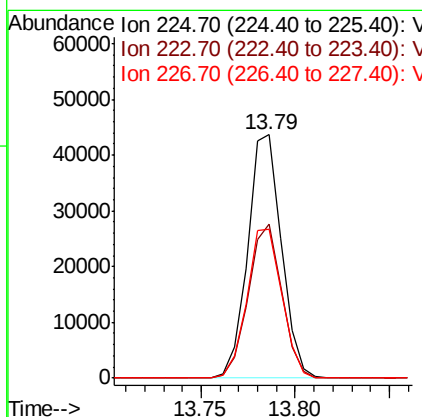
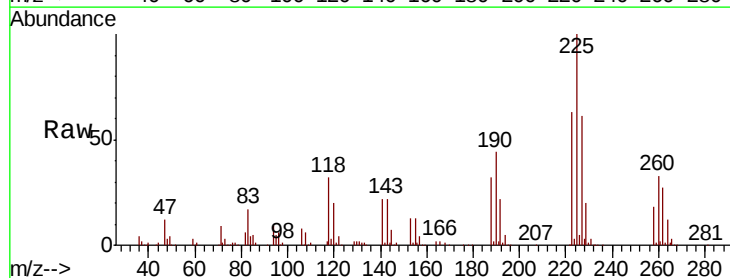
Manual Integrations
 APPROVED

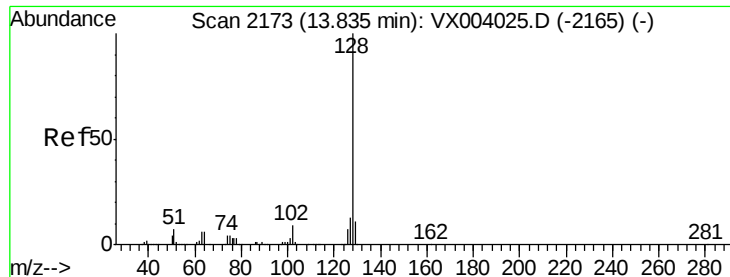
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#94
 Hexachlorobutadiene
 Concen: 17.03 ug/l
 RT: 13.79 min Scan# 2165
 Delta R.T. 0.00 min
 Lab File: VX004024.D
 Acq: 14 Aug 2018 11:34

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.8	31.4	94.0	
227	63.7	32.1	96.5	





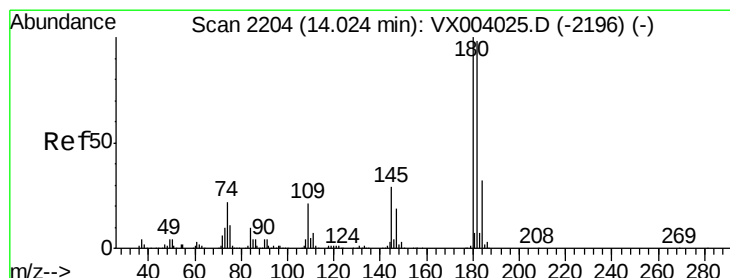
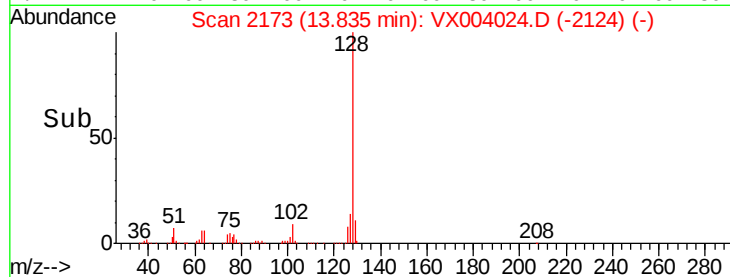
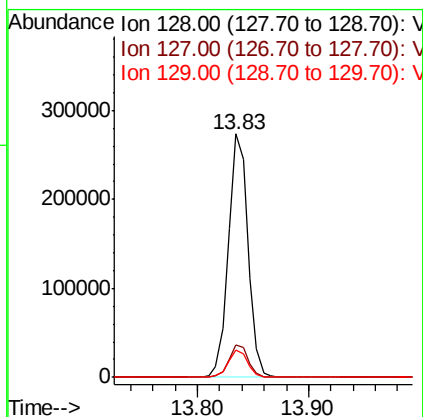
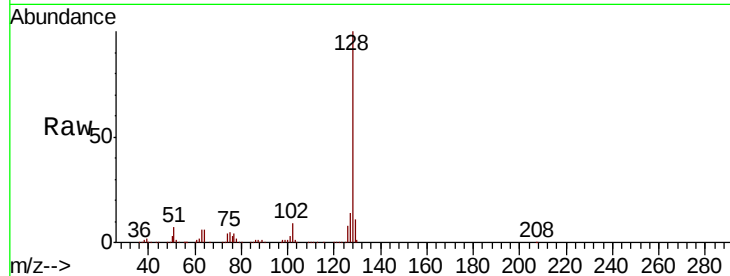
#95
Naphthalene
Concen: 17.09 ug/l
RT: 13.83 min Scan# 2173
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
128	100	332219		
127	13.4		10.2	15.2
129	11.1		8.8	13.2

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 18.56 ug/l
RT: 14.02 min Scan# 2204
Delta R.T. 0.00 min
Lab File: VX004024.D
Acq: 14 Aug 2018 11:34

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	125726		
182	96.1		48.1	144.4
145	30.0		14.9	44.7

