

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX031419\
 Data File : VX008063.D
 Acq On : 14 Mar 2019 10:32
 Operator : JC/SP
 Sample : VSTDIC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 3/15/2019 9:06:52 AM

Quant Time: Mar 14 14:55:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X031419W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 14 14:45:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	319075	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	454624	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	415442	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	209844	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	62712	20.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.58%	
35) Dibromofluoromethane	5.50	113	57262	20.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.58%	
50) Toluene-d8	8.71	98	217310	20.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.94%	
62) 4-Bromofluorobenzene	11.13	95	78750	20.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.22%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	51096	19.887	ug/l	99
3) Chloromethane	1.33	50	54462	19.548	ug/l	99
4) Vinyl Chloride	1.41	62	54591	20.526	ug/l	99
5) Bromomethane	1.64	94	28962	21.441	ug/l	97
6) Chloroethane	1.73	64	29257	18.733	ug/l	98
7) Trichlorofluoromethane	1.93	101	61205	19.415	ug/l	98
8) Diethyl Ether	2.19	74	32373	19.061	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	2.39	101	48558	19.395	ug/l	98
10) Methyl Iodide	2.51	142	71650	18.102	ug/l	98
11) Tert butyl alcohol	3.07	59	60205	97.126	ug/l	99
12) 1,1-Dichloroethene	2.38	96	45446	18.877	ug/l	93
13) Acrolein	2.30	56	54958	95.924	ug/l	100
14) Allyl chloride	2.73	41	83054	18.804	ug/l	97
15) Acrylonitrile	3.15	53	141357	93.851	ug/l	99
16) Acetone	2.45	43	146035	99.939	ug/l	98
17) Carbon Disulfide	2.57	76	134551	18.732	ug/l	99
18) Methyl Acetate	2.78	43	62718	18.954	ug/l	96
19) Methyl tert-butyl Ether	3.21	73	153332	19.002	ug/l	96
20) Methylene Chloride	2.86	84	50718	19.194	ug/l	94
21) trans-1,2-Dichloroethene	3.17	96	48797	18.980	ug/l	92
22) Diisopropyl ether	3.87	45	164439	18.601	ug/l	98
23) Vinyl Acetate	3.82	43	700601	90.682	ug/l	99
24) 1,1-Dichloroethane	3.70	63	90128	18.549	ug/l	99
25) 2-Butanone	4.70	43	221752	95.380	ug/l	99
26) 2,2-Dichloropropane	4.59	77	67627	18.623	ug/l	100
27) cis-1,2-Dichloroethene	4.60	96	58177	19.285	ug/l	97
28) Bromochloromethane	5.02	49	45665	19.527	ug/l	94
29) Tetrahydrofuran	5.15	42	138313	93.717	ug/l	97
30) Chloroform	5.22	83	92467	19.461	ug/l	97
31) Cyclohexane	5.58	56	87872	19.033	ug/l	97
32) 1,1,1-Trichloroethane	5.50	97	77224	18.586	ug/l	98
36) 1,1-Dichloropropene	5.80	75	70179	19.333	ug/l	98
37) Ethyl Acetate	4.85	43	76550	19.059	ug/l	98
38) Carbon Tetrachloride	5.78	117	69219	19.291	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX031419\
 Data File : VX008063.D
 Acq On : 14 Mar 2019 10:32
 Operator : JC/SP
 Sample : VSTDIC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 3/15/2019 9:06:52 AM

Quant Time: Mar 14 14:55:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X031419W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 14 14:45:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	88907	18.814	ug/l	98
40) Benzene	6.15	78	217150	19.489	ug/l	99
41) Methacrylonitrile	5.06	41	44332	19.356	ug/l	98
42) 1,2-Dichloroethane	6.20	62	70059	19.674	ug/l	100
43) Isopropyl Acetate	6.46	43	120809	18.704	ug/l	98
44) Trichloroethene	7.21	130	61447	19.362	ug/l	98
45) 1,2-Dichloropropane	7.51	63	57008	19.192	ug/l	96
46) Dibromomethane	7.66	93	36368	19.335	ug/l	97
47) Bromodichloromethane	7.90	83	66541	18.659	ug/l	99
48) Methyl methacrylate	7.77	41	64257	18.592	ug/l	97
49) 1,4-Dioxane	7.75	88	27893	389.074	ug/l	99
51) 4-Methyl-2-Pentanone	8.65	43	415283	98.021	ug/l	99
52) Toluene	8.78	92	138172	19.348	ug/l	100
53) t-1,3-Dichloropropene	9.04	75	72636	17.881	ug/l	99
54) cis-1,3-Dichloropropene	8.43	75	81992	18.137	ug/l	99
55) 1,1,2-Trichloroethane	9.21	97	56666	19.686	ug/l	98
56) Ethyl methacrylate	9.18	69	84835	19.178	ug/l	97
57) 1,3-Dichloropropane	9.37	76	93267	19.642	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.31	63	240366	93.133	ug/l	98
59) 2-Hexanone	9.49	43	330212	101.320	ug/l	99
60) Dibromochloromethane	9.58	129	57298	18.528	ug/l	100
61) 1,2-Dibromoethane	9.67	107	60015	19.256	ug/l	99
64) Tetrachloroethene	9.34	164	63990	19.660	ug/l	99
65) Chlorobenzene	10.14	112	154633	19.300	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.22	131	54802	18.494	ug/l	98
67) Ethyl Benzene	10.25	91	258611	19.049	ug/l	99
68) m/p-Xylenes	10.36	106	200457	38.326	ug/l	99
69) o-Xylene	10.70	106	96704	19.029	ug/l	99
70) Styrene	10.71	104	161431	19.191	ug/l	99
71) Bromoform	10.85	173	45334	18.134	ug/l #	99
73) Isopropylbenzene	11.02	105	260709	19.457	ug/l	100
74) N-amyl acetate	10.90	43	110278	19.672	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.27	83	85779	20.535	ug/l	100
76) 1,2,3-Trichloropropane	11.29	75	71463m	20.243	ug/l	
77) Bromobenzene	11.26	156	70772	19.753	ug/l	97
78) n-propylbenzene	11.36	91	288010	19.226	ug/l	100
79) 2-Chlorotoluene	11.42	91	174476	19.726	ug/l	99
80) 1,3,5-Trimethylbenzene	11.51	105	215652	19.383	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.07	75	23579	17.728	ug/l	96
82) 4-Chlorotoluene	11.51	91	196874	19.522	ug/l	100
83) tert-Butylbenzene	11.77	119	211084	19.357	ug/l	98
84) 1,2,4-Trimethylbenzene	11.80	105	223087	19.501	ug/l	99
85) sec-Butylbenzene	11.94	105	255883	19.192	ug/l	98
86) p-Isopropyltoluene	12.06	119	229408	18.974	ug/l	100
87) 1,3-Dichlorobenzene	12.02	146	122706	19.344	ug/l	100
88) 1,4-Dichlorobenzene	12.10	146	123271	19.493	ug/l	99
89) n-Butylbenzene	12.39	91	185058	18.349	ug/l	100
90) Hexachloroethane	12.60	117	35044	18.040	ug/l	99
91) 1,2-Dichlorobenzene	12.39	146	122028	19.634	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	13.00	75	17359	18.819	ug/l	99

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX031419\
Data File : VX008063.D
Acq On : 14 Mar 2019 10:32
Operator : JC/SP
Sample : VSTDICC020
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

MMDadoda
3/15/2019 9:06:52 AM

Quant Time: Mar 14 14:55:22 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X031419W.M
Quant Title : SW846 8260
QLast Update : Thu Mar 14 14:45:01 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	83767	18.744	ug/l	100
94) Hexachlorobutadiene	13.78	225	46237	18.981	ug/l	99
95) Naphthalene	13.83	128	243639	18.424	ug/l	100
96) 1,2,3-Trichlorobenzene	14.02	180	84543	18.974	ug/l	98

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

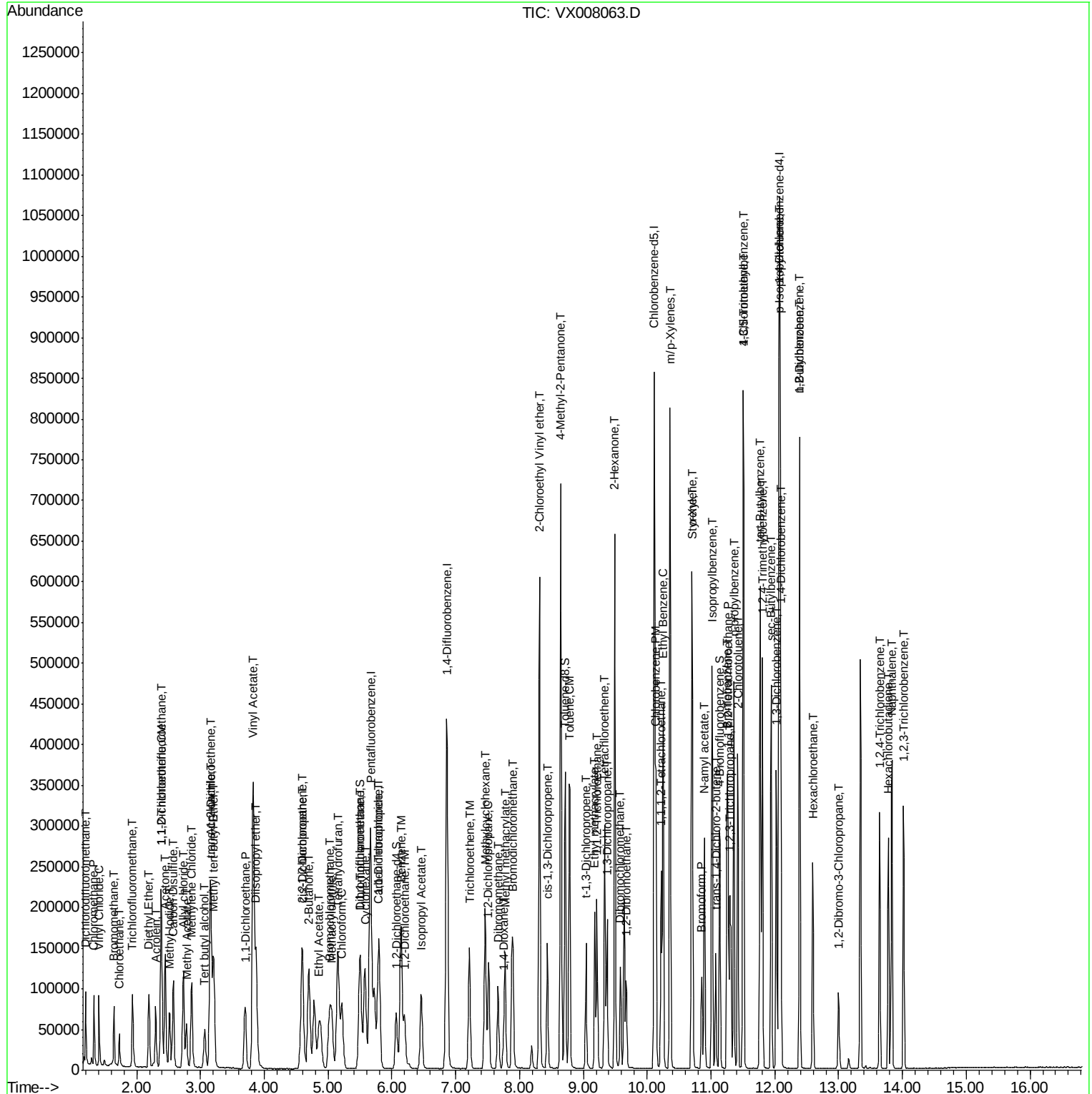
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX031419\
 Data File : VX008063.D
 Acq On : 14 Mar 2019 10:32
 Operator : JC/SP
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

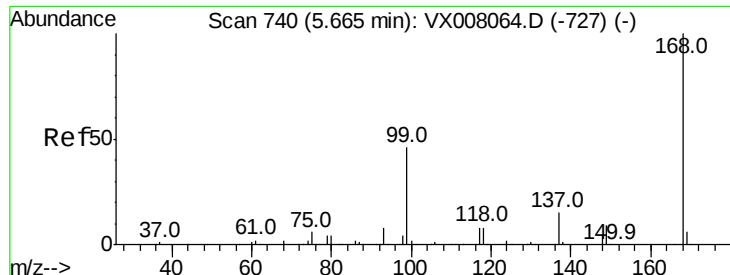
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

MMDadoda
 3/15/2019 9:06:52 AM

Quant Time: Mar 14 14:55:22 2019
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X031419W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 14 14:45:01 2019
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 319075

Ion Ratio Lower Upper

168 100

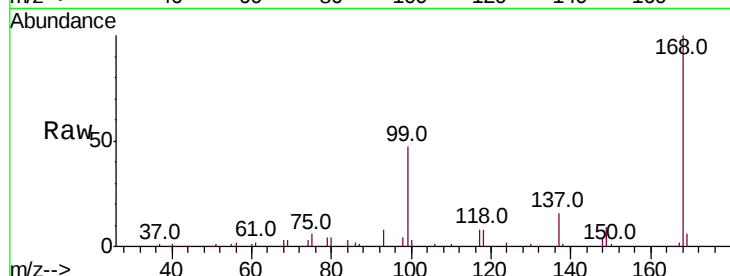
99 47.2 37.6 56.4

Manual Integrations

APPROVED

MMDadoda

3/15/2019 9:06:52 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

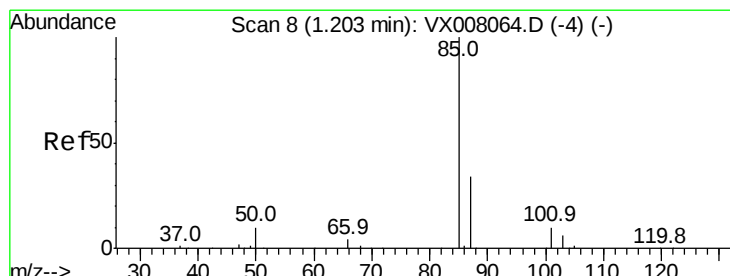
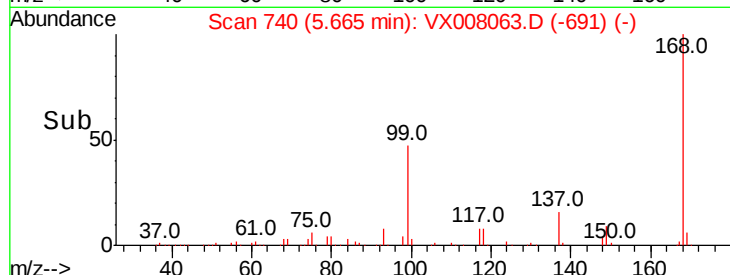
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 19.887 ug/l

RT: 1.20 min Scan# 8

Delta R.T. -0.00 min

Lab File: VX008063.D

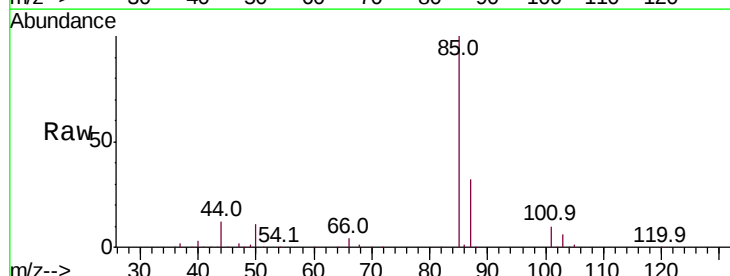
Acq: 14 Mar 2019 10:32

Tgt Ion: 85 Resp: 51096

Ion Ratio Lower Upper

85 100

87 32.0 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

60000

50000

40000

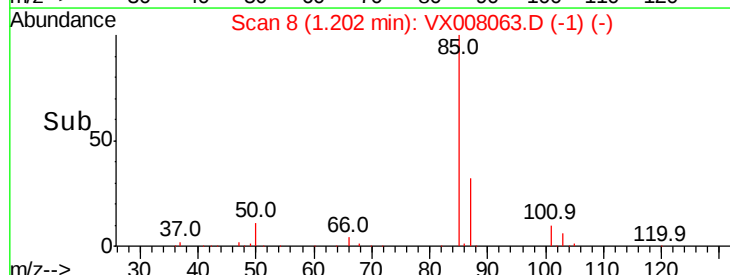
30000

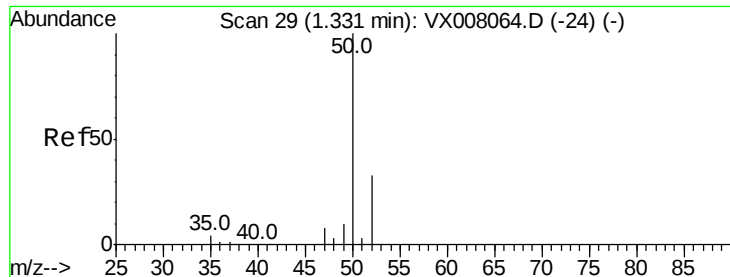
20000

10000

0

Time-->





#3

Chloromethane

Concen: 19.548 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 54462

Ion Ratio Lower Upper

50 100

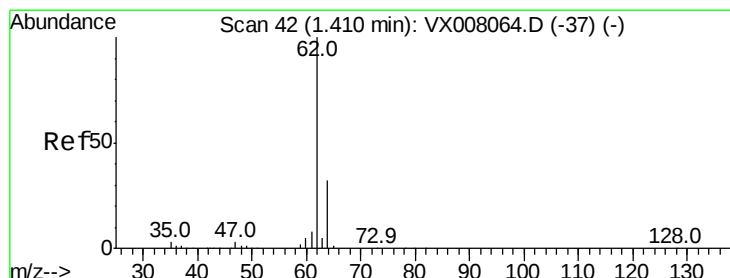
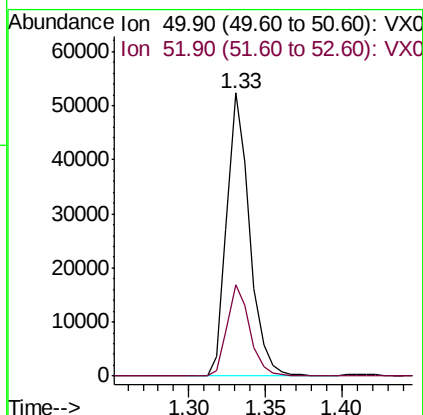
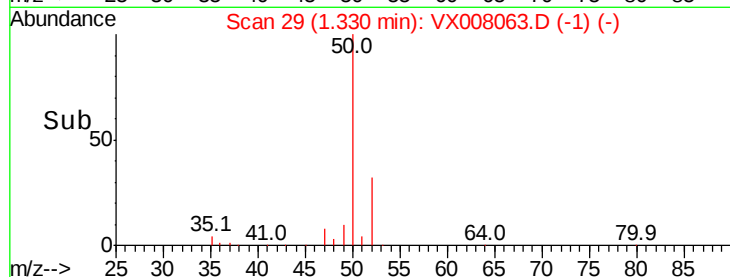
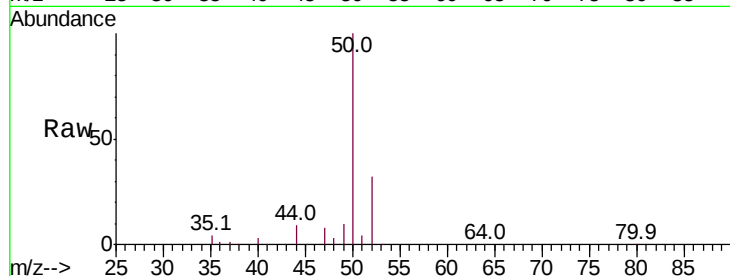
52 32.3 26.5 39.7

Manual Integrations

APPROVED

MMDadoda

3/15/2019 9:06:52 AM



#4

Vinyl Chloride

Concen: 20.526 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX008063.D

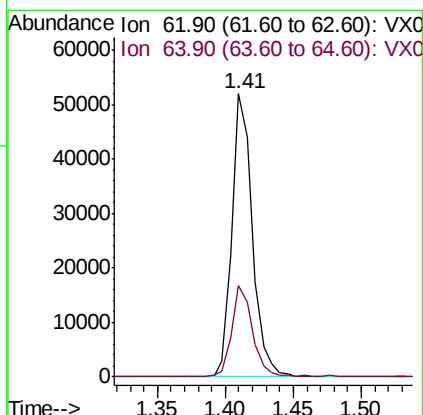
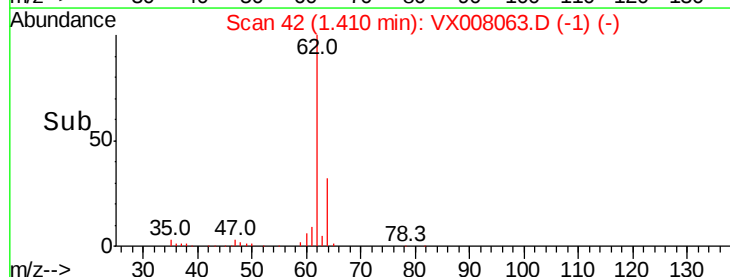
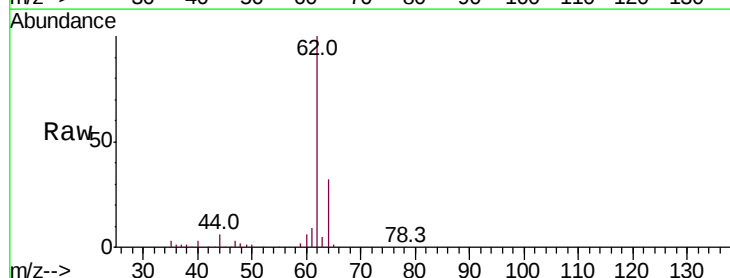
Acq: 14 Mar 2019 10:32

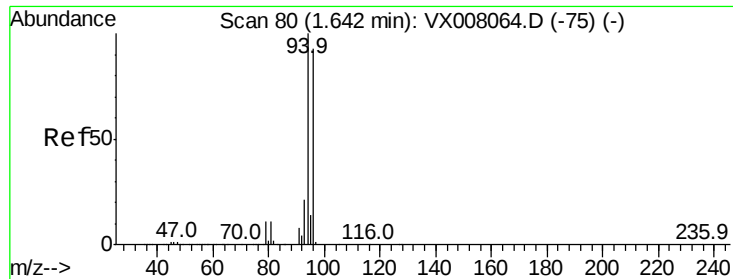
Tgt Ion: 62 Resp: 54591

Ion Ratio Lower Upper

62 100

64 32.1 25.3 37.9





#5

Bromomethane

Concen: 21.441 ug/l

RT: 1.64 min Scan# 80

Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion: 94 Resp: 28962

Ion Ratio Lower Upper

94 100

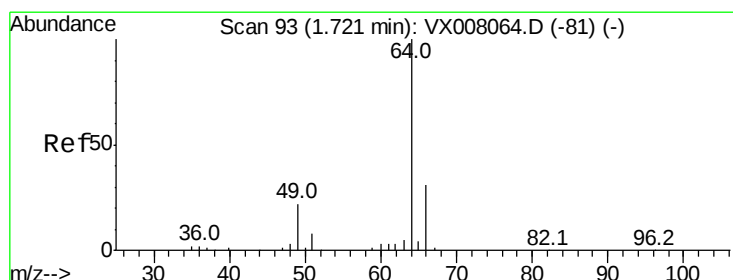
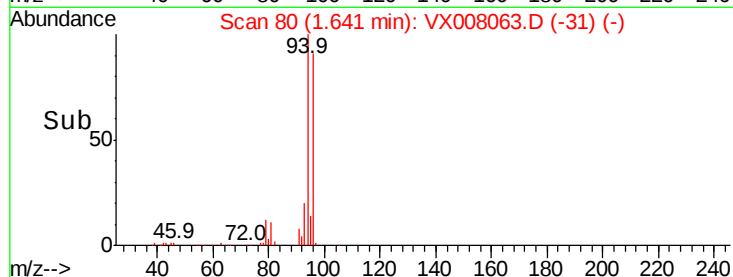
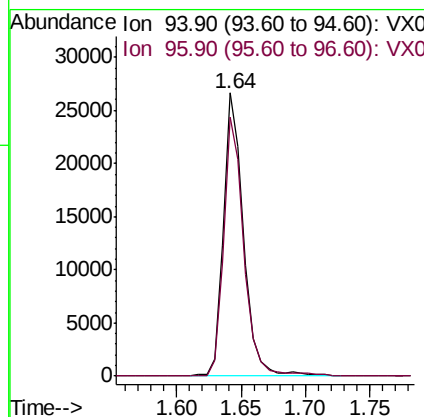
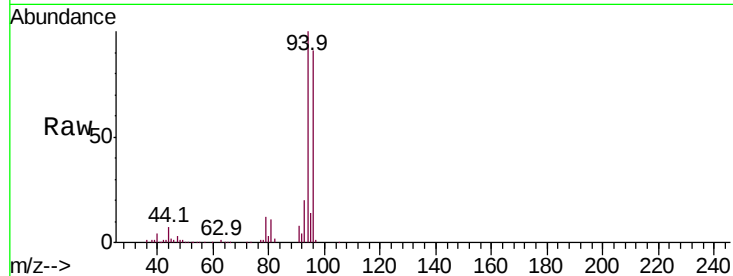
96 91.5 75.5 113.3

Manual Integrations

APPROVED

MMDadoda

3/15/2019 9:06:52 AM



#6

Chloroethane

Concen: 18.733 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX008063.D

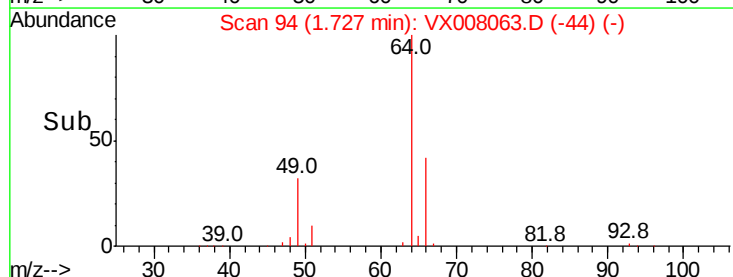
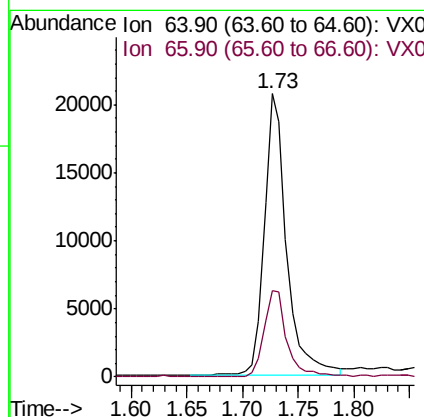
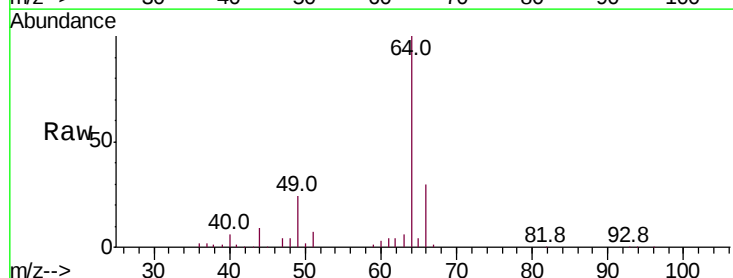
Acq: 14 Mar 2019 10:32

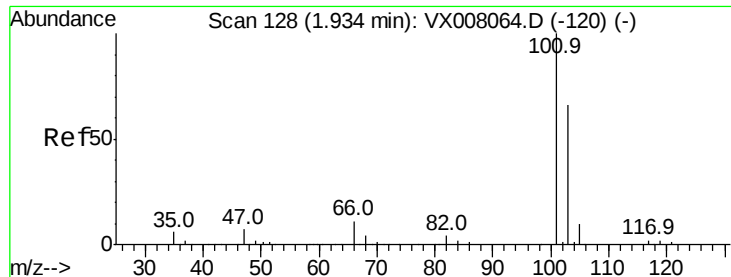
Tgt Ion: 64 Resp: 29257

Ion Ratio Lower Upper

64 100

66 30.4 25.2 37.8





#7

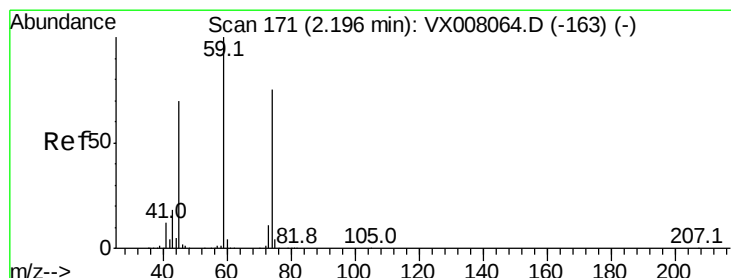
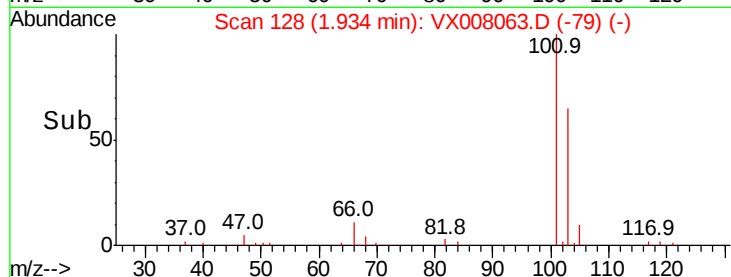
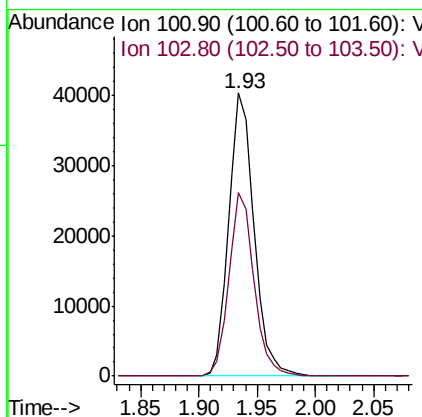
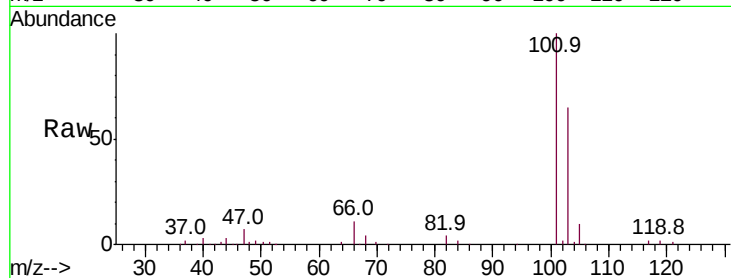
Trichlorofluoromethane
Concen: 19.415 ug/l
RT: 1.93 min Scan# 128
Delta R.T. -0.00 min
Lab File: VX008063.D
Acq: 14 Mar 2019 10:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.8	50.4	75.6

Manual Integrations
APPROVED

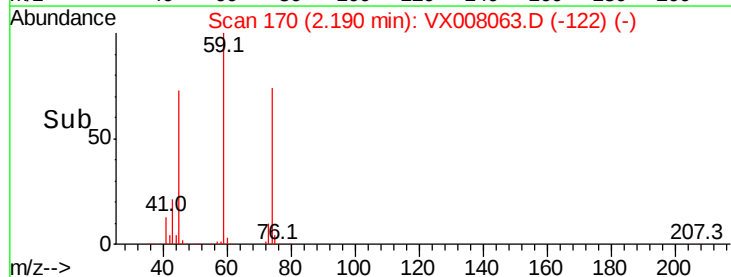
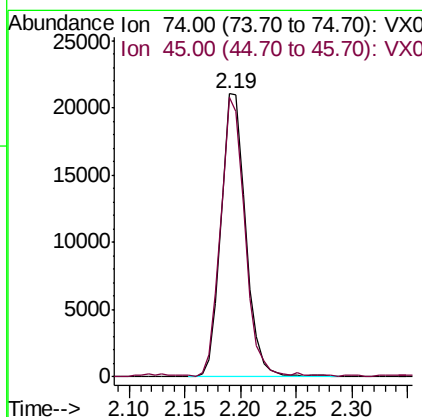
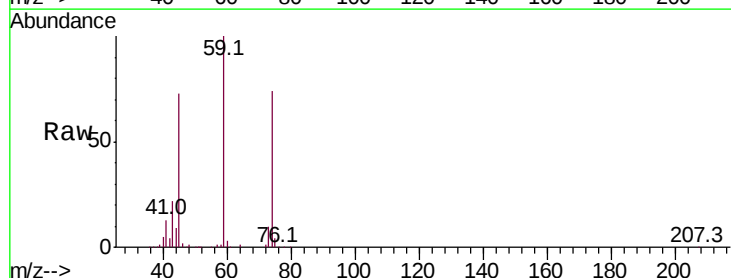
MMDadoda
3/15/2019 9:06:52 AM

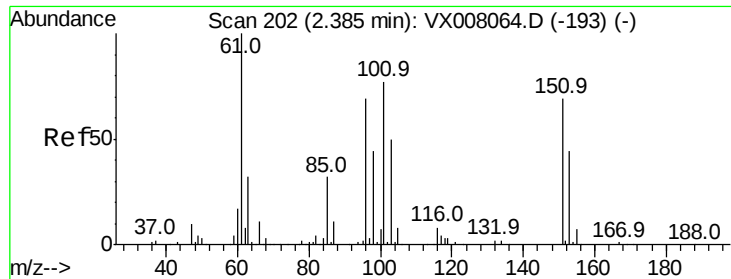


#8

Diethyl Ether
Concen: 19.061 ug/l
RT: 2.19 min Scan# 170
Delta R.T. -0.01 min
Lab File: VX008063.D
Acq: 14 Mar 2019 10:32

Tgt Ion	Ratio	Lower	Upper
74	100		
45	96.8	52.1	156.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.395 ug/l

RT: 2.39 min Scan# 202

Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Instrument :

MSVOA_X

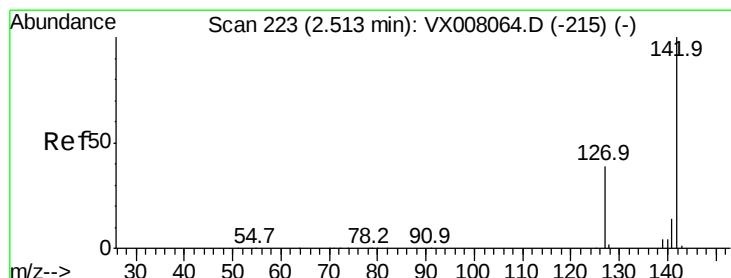
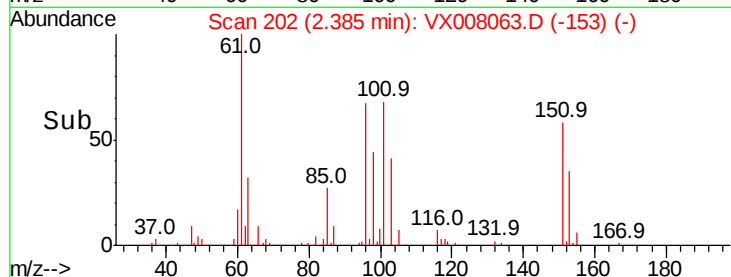
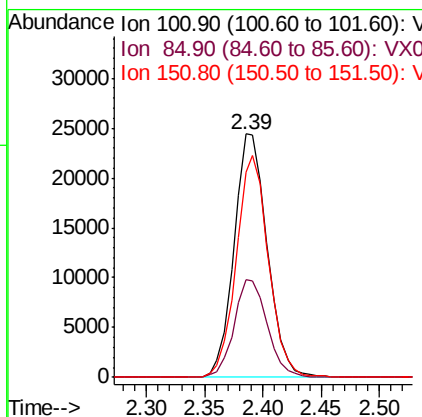
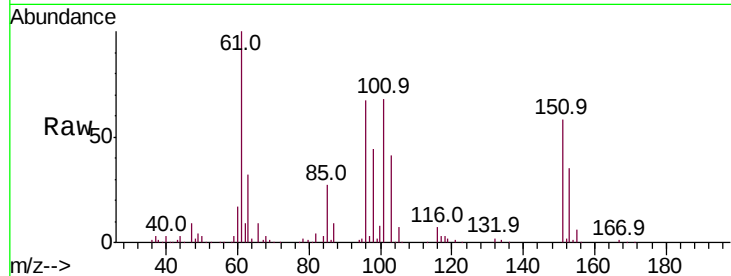
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	48558
Ion Ratio	Lower	Upper	
101	100		
85	40.3	33.8	50.6
151	88.3	69.1	103.7

Manual Integrations
APPROVED

MMDadoda
3/15/2019 9:06:52 AM



#10

Methyl Iodide

Concen: 18.102 ug/l

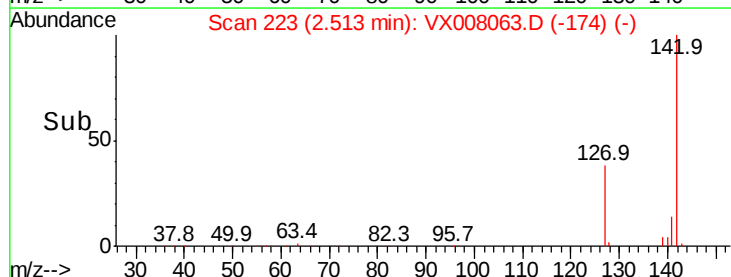
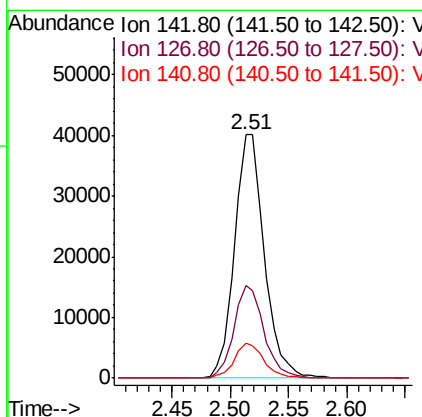
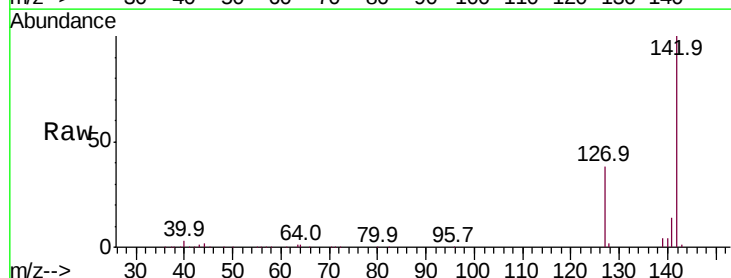
RT: 2.51 min Scan# 223

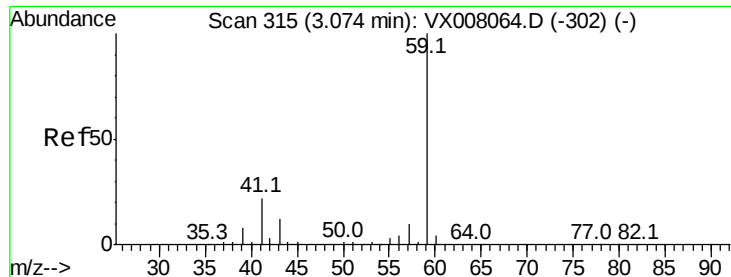
Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Tgt Ion:	142	Resp:	71650
Ion Ratio	Lower	Upper	
142	100		
127	38.1	32.1	48.1
141	14.1	11.4	17.2





#11

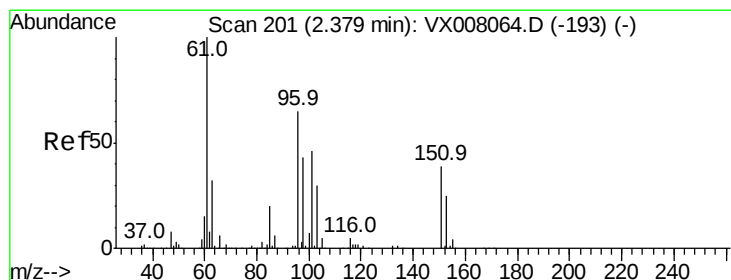
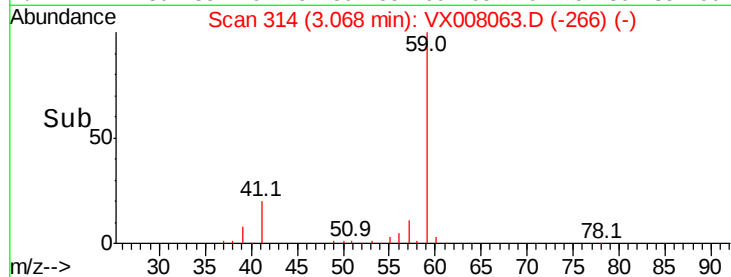
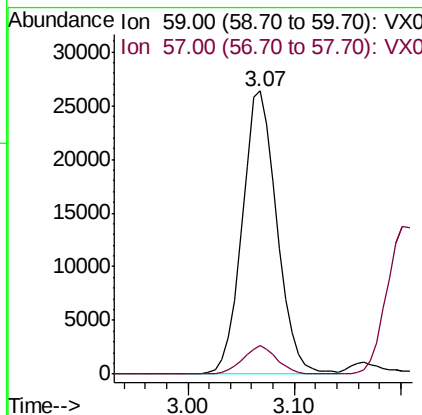
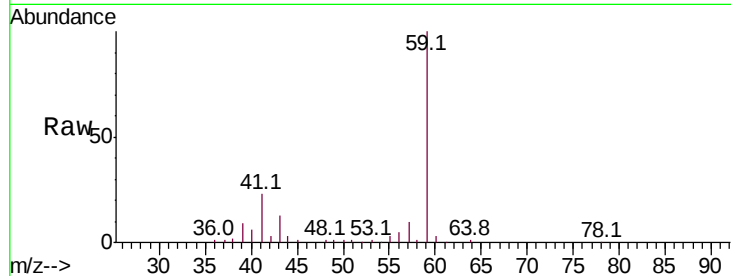
Tert butyl alcohol
 Concen: 97.126 ug/l
 RT: 3.07 min Scan# 314
 Delta R.T. -0.01 min
 Lab File: VX008063.D
 Acq: 14 Mar 2019 10:32

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.8	8.2	12.2

Manual Integrations
 APPROVED

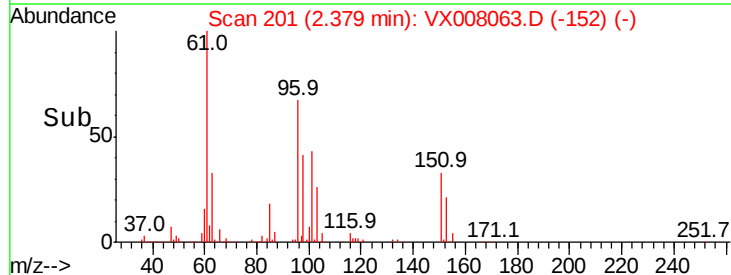
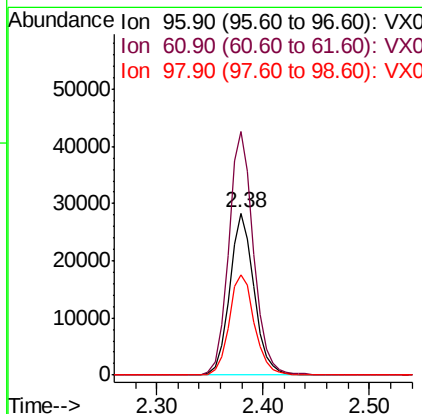
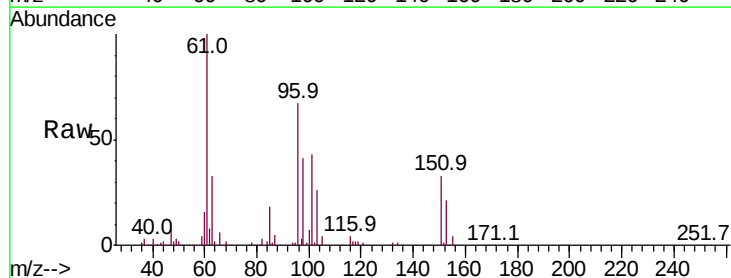
MMDadoda
 3/15/2019 9:06:52 AM

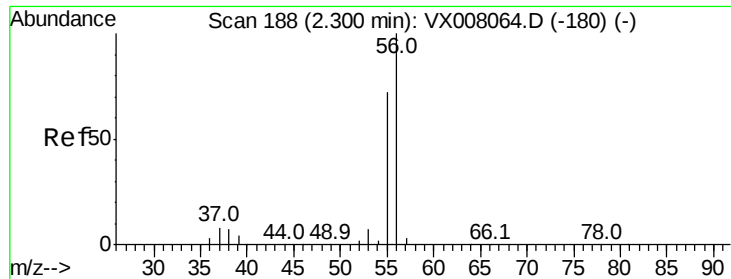


#12

1,1-Dichloroethene
 Concen: 18.877 ug/l
 RT: 2.38 min Scan# 201
 Delta R.T. -0.00 min
 Lab File: VX008063.D
 Acq: 14 Mar 2019 10:32

Tgt Ion	Ratio	Lower	Upper
96	100		
61	150.2	129.8	194.6
98	62.1	51.0	76.6





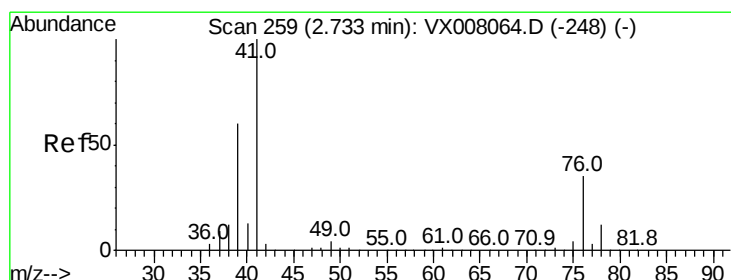
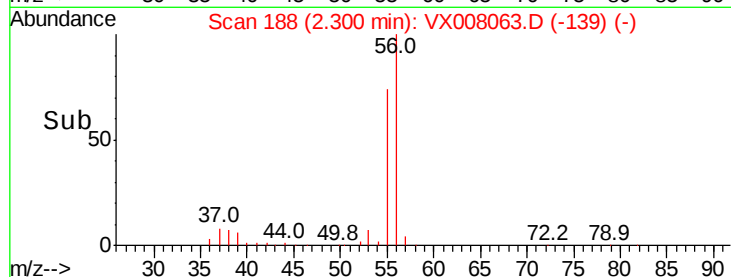
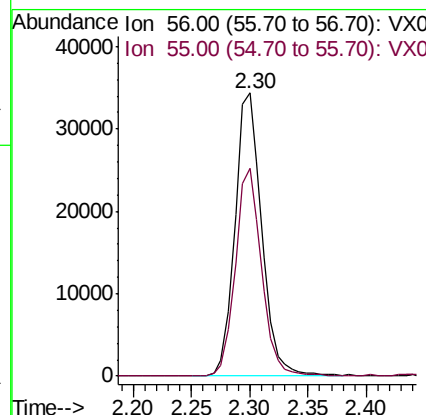
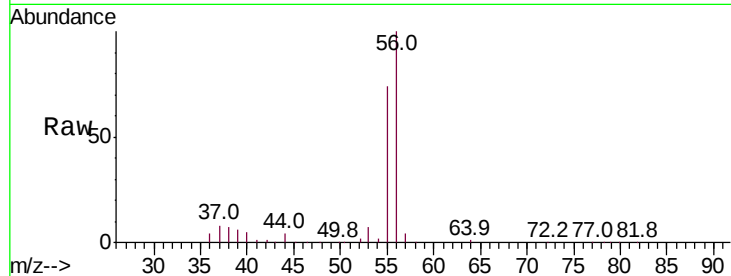
#13
Acrolein
Concen: 95.924 ug/l
RT: 2.30 min Scan# 188
Delta R.T. -0.00 min
Lab File: VX008063.D
Acq: 14 Mar 2019 10:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
56	100		
55	72.3	57.8	86.6

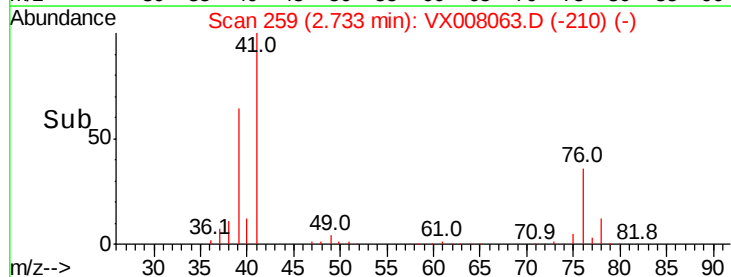
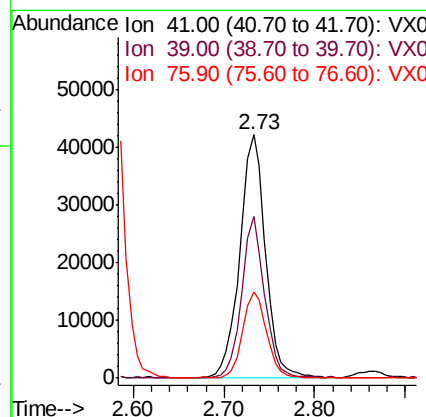
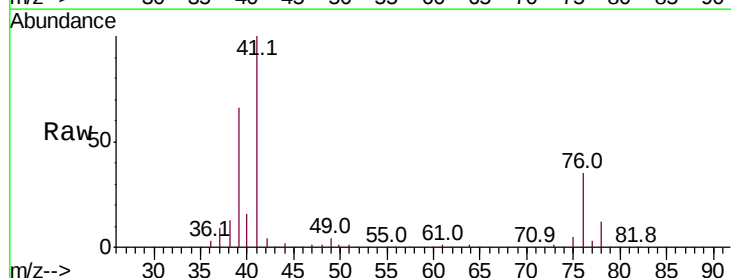
Manual Integrations
APPROVED

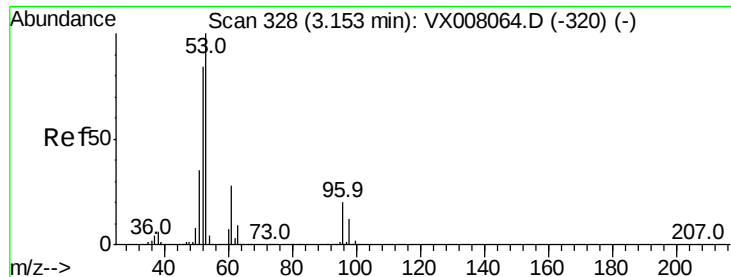
MMDadoda
3/15/2019 9:06:52 AM



#14
Allyl chloride
Concen: 18.804 ug/l
RT: 2.73 min Scan# 259
Delta R.T. -0.00 min
Lab File: VX008063.D
Acq: 14 Mar 2019 10:32

Tgt Ion	Ratio	Lower	Upper
41	100		
39	59.2	46.1	69.1
76	32.9	24.0	36.0





#15

Acrylonitrile

Concen: 93.851 ug/l

RT: 3.15 min Scan# 328

Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Instrument :

MSVOA_X

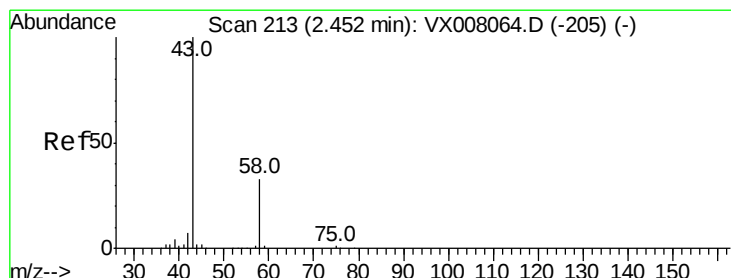
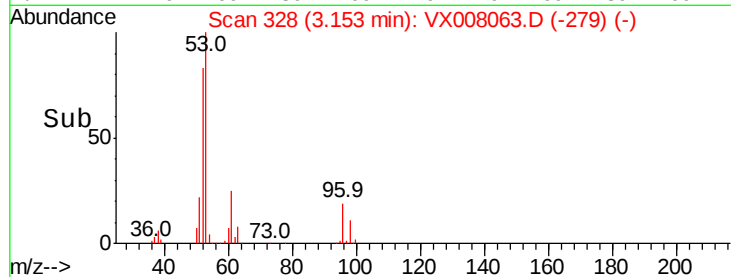
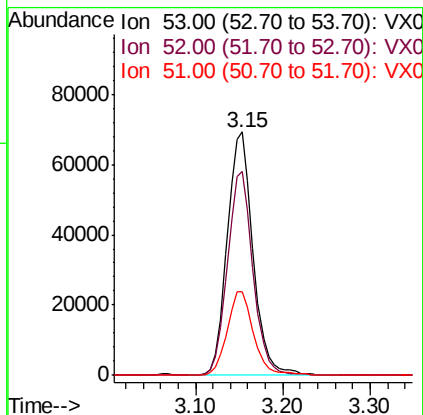
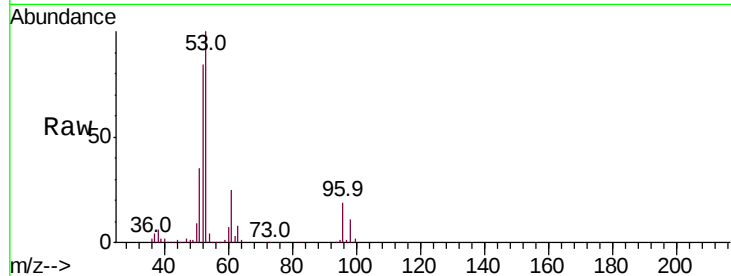
ClientSampleId :

VSTDIC020

Tot Ion	53	Resp	141357
Ion Ratio	Lower	Upper	
53	100		
52	82.9	66.0	99.0
51	35.6	28.0	42.0

Manual Integrations
APPROVED

MMDadoda
3/15/2019 9:06:52 AM



#16

Acetone

Concen: 99.939 ug/l

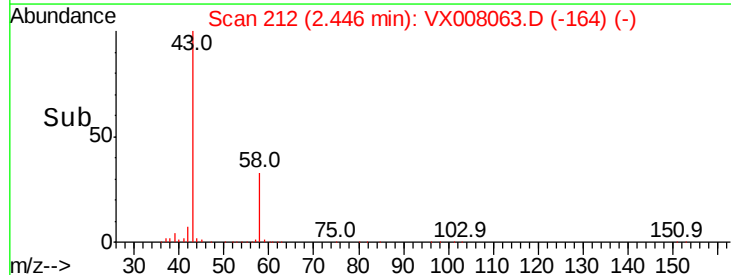
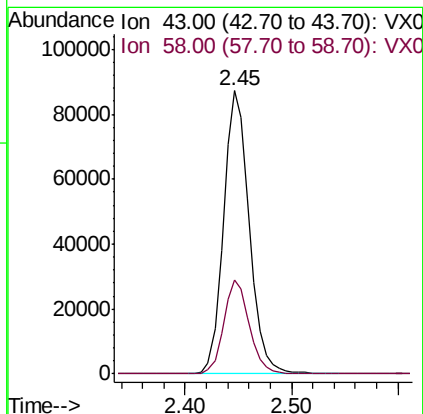
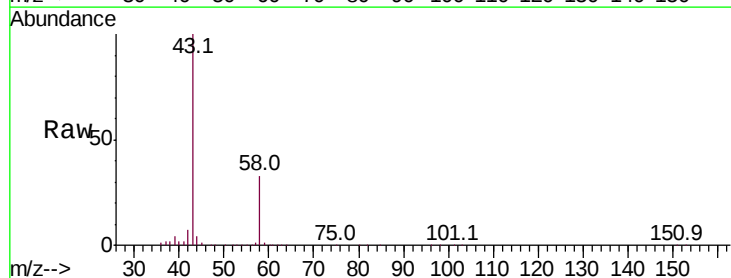
RT: 2.45 min Scan# 212

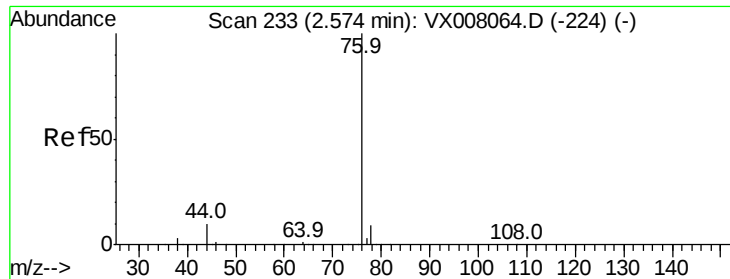
Delta R.T. -0.01 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Tgt Ion	43	Resp	146035
Ion Ratio	Lower	Upper	
43	100		
58	33.2	25.5	38.3





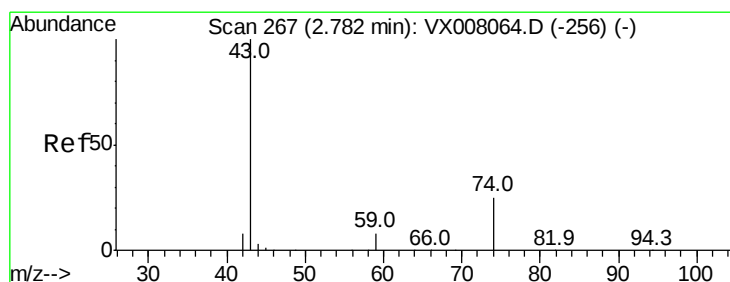
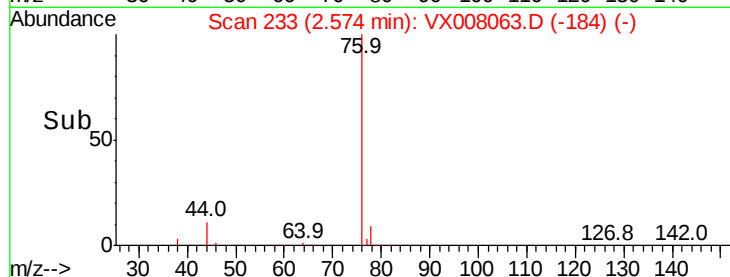
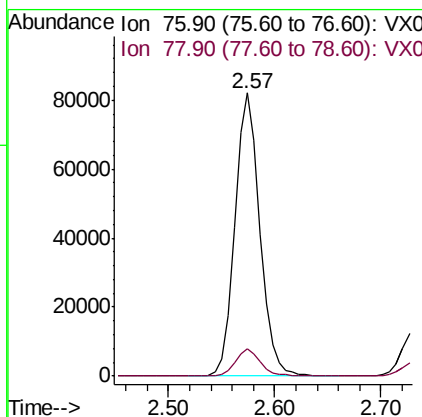
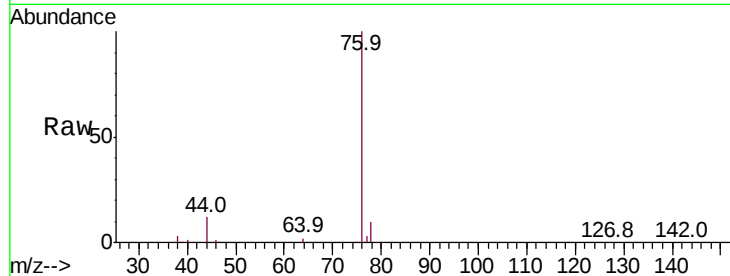
#17
Carbon Disulfide
Concen: 18.732 ug/l
RT: 2.57 min Scan# 233
Delta R.T. -0.00 min
Lab File: VX008063.D
Acq: 14 Mar 2019 10:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.5	7.2	10.8

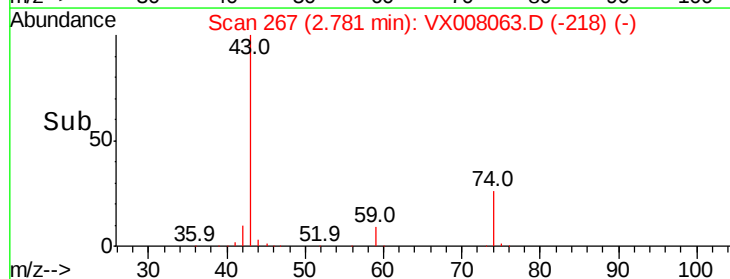
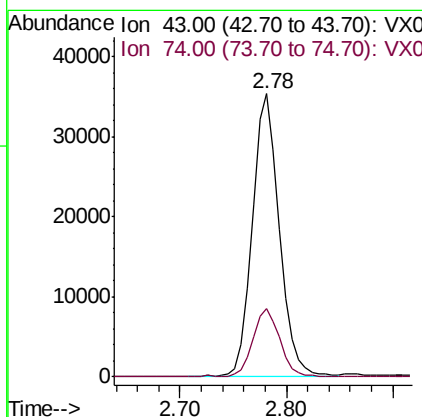
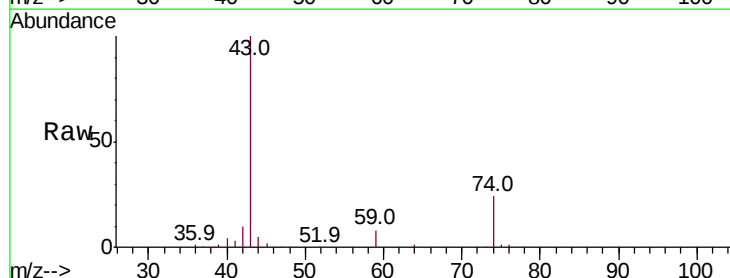
Manual Integrations
APPROVED

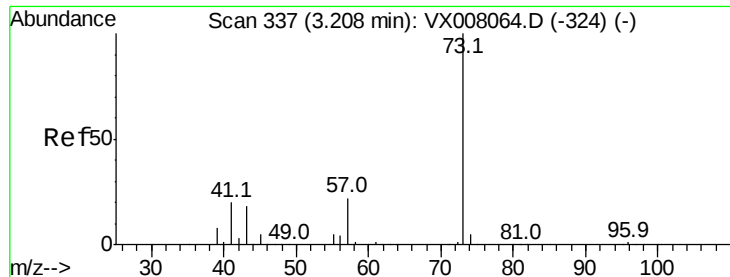
MMDadoda
3/15/2019 9:06:52 AM



#18
Methyl Acetate
Concen: 18.954 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX008063.D
Acq: 14 Mar 2019 10:32

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.2	17.8	26.6





#19

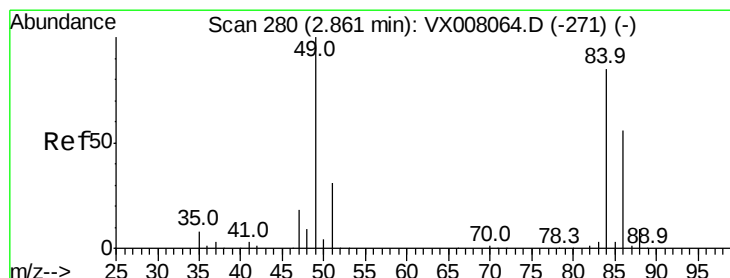
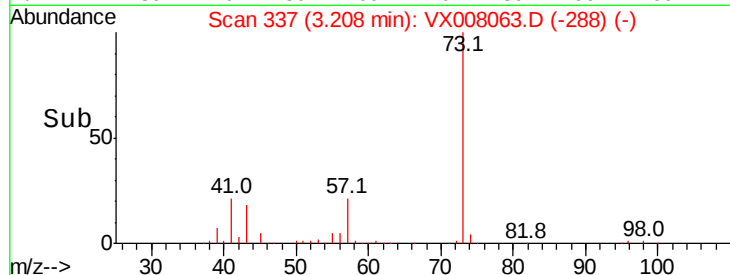
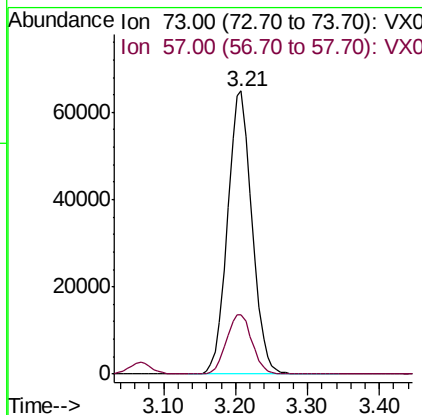
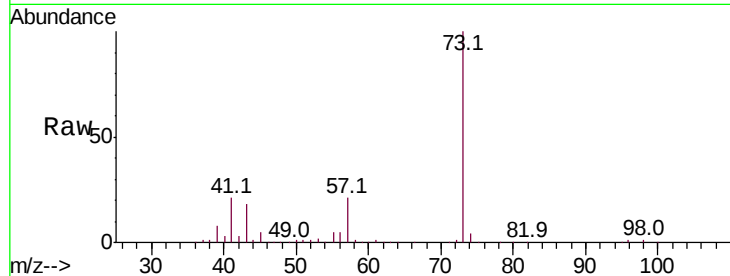
Methyl tert-butyl Ether
 Concen: 19.002 ug/l
 RT: 3.21 min Scan# 337
 Delta R.T. -0.00 min
 Lab File: VX008063.D
 Acq: 14 Mar 2019 10:32

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
73	100		
57	21.1	18.2	27.4

Manual Integrations
 APPROVED

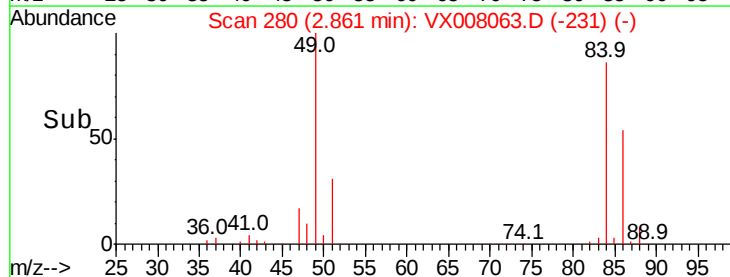
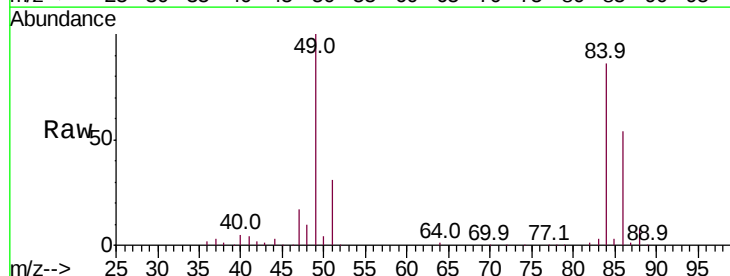
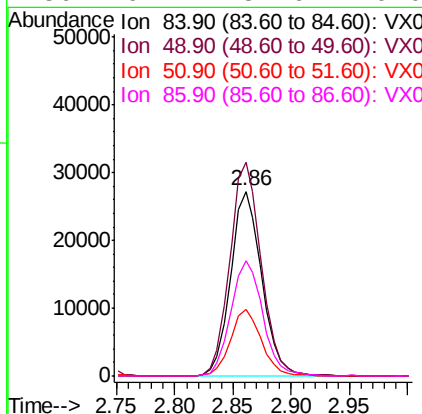
MMDadoda
 3/15/2019 9:06:52 AM

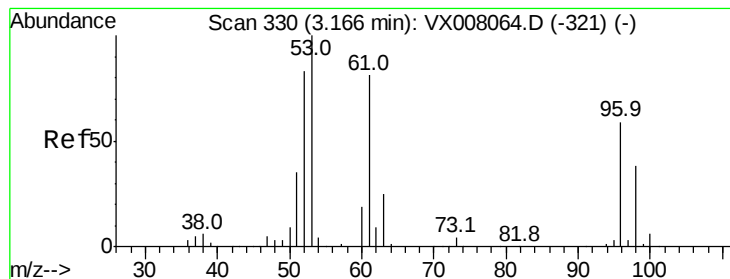


#20

Methylene Chloride
 Concen: 19.194 ug/l
 RT: 2.86 min Scan# 280
 Delta R.T. -0.00 min
 Lab File: VX008063.D
 Acq: 14 Mar 2019 10:32

Tgt Ion	Ratio	Lower	Upper
84	100		
49	115.7	99.3	148.9
51	35.8	31.3	46.9
86	62.7	52.6	79.0





#21

trans-1,2-Dichloroethene

Concen: 18.980 ug/l

RT: 3.17 min Scan# 331

Delta R.T. 0.01 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion: 96 Resp: 48797

Ion Ratio Lower Upper

96 100

61 129.1 114.4 171.6

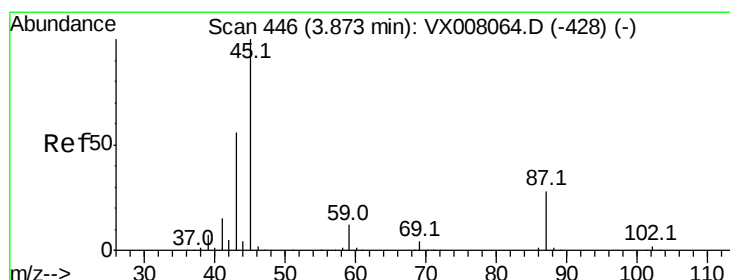
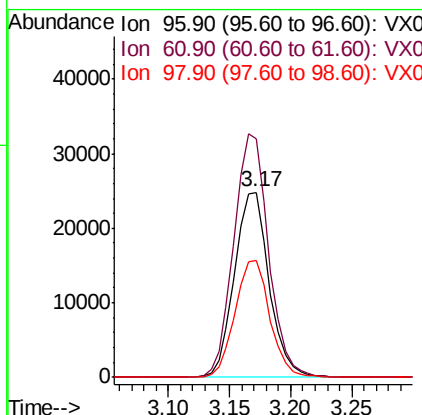
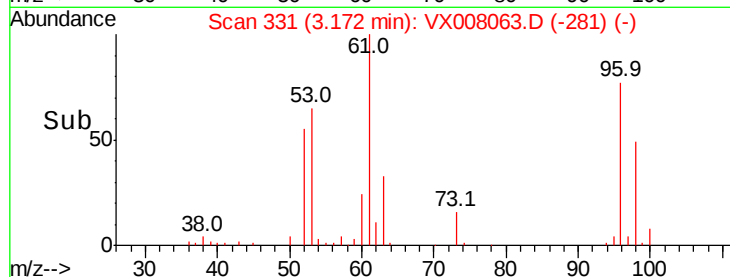
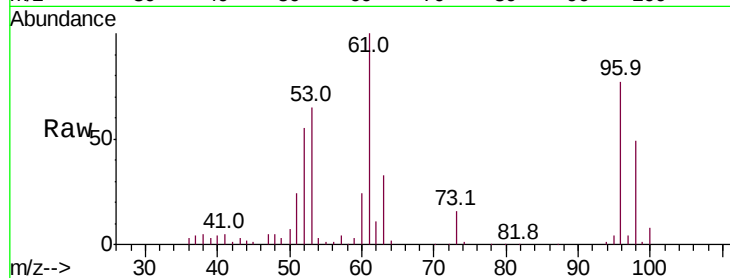
98 63.6 51.1 76.7

Manual Integrations

APPROVED

MMDadoda

3/15/2019 9:06:52 AM



#22

Diisopropyl ether

Concen: 18.601 ug/l

RT: 3.87 min Scan# 446

Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Tgt Ion: 45 Resp: 164439

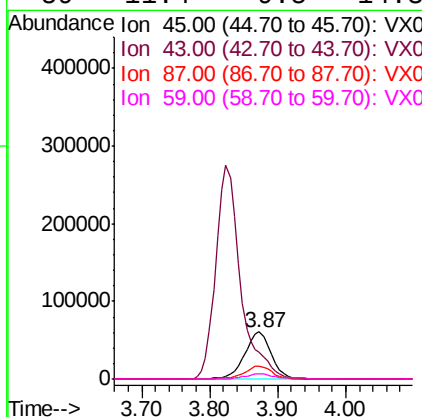
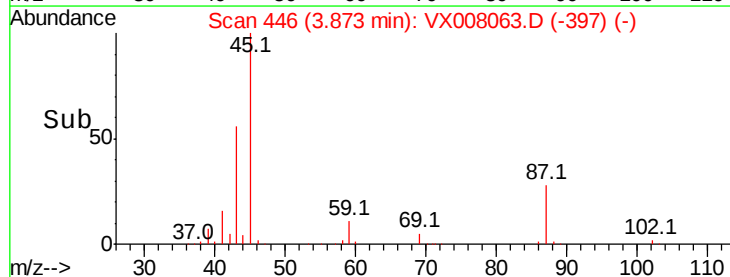
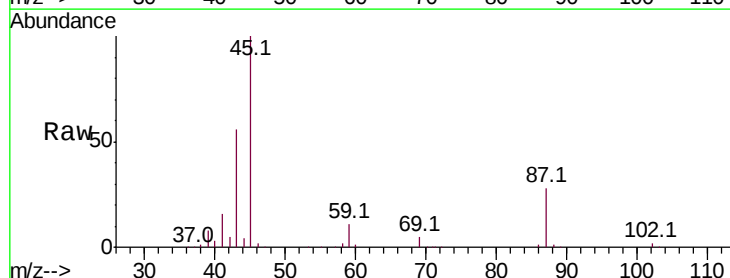
Ion Ratio Lower Upper

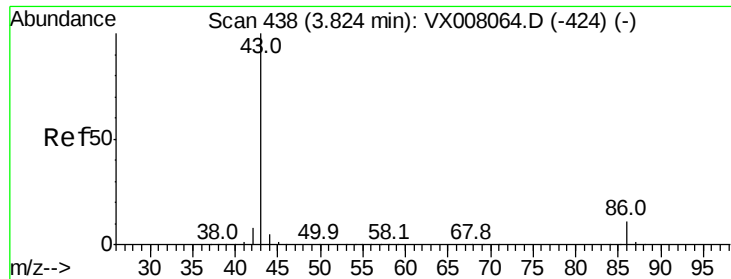
45 100

43 55.9 45.3 67.9

87 28.2 21.4 32.0

59 11.4 9.5 14.3





#23

Vinyl Acetate

Concen: 90.682 ug/l

RT: 3.82 min Scan# 438

Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 700601

Ion Ratio Lower Upper

43 100

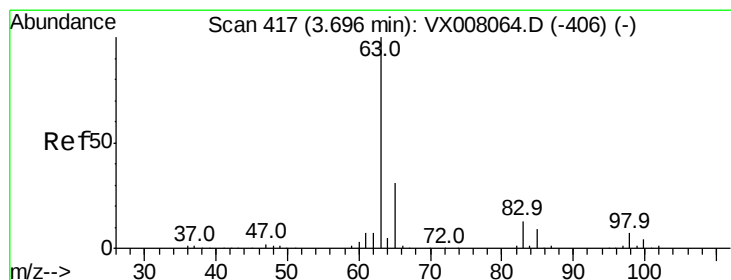
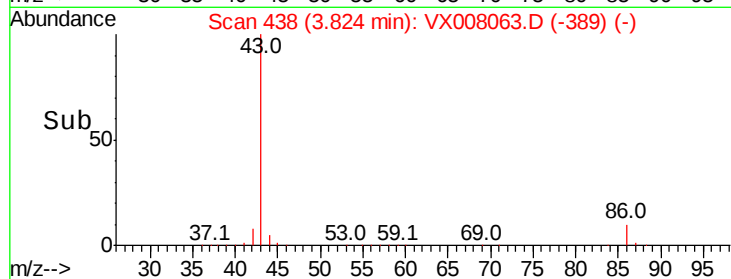
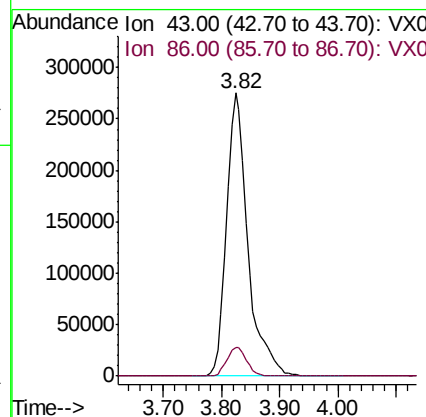
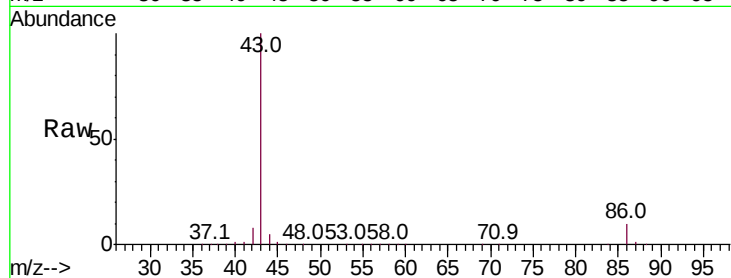
86 10.1 7.9 11.9

Manual Integrations

APPROVED

MMDadoda

3/15/2019 9:06:52 AM



#24

1,1-Dichloroethane

Concen: 18.549 ug/l

RT: 3.70 min Scan# 418

Delta R.T. 0.01 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

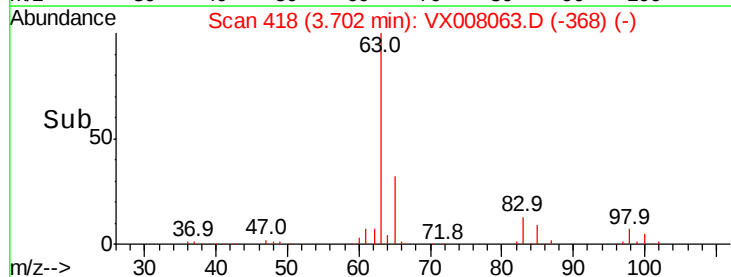
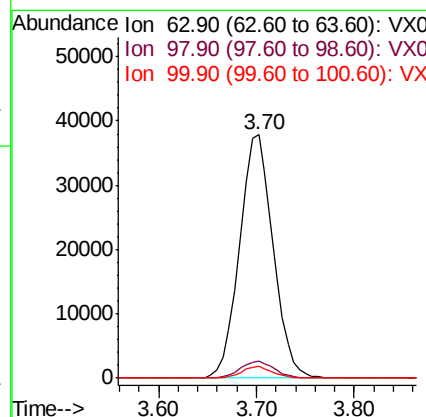
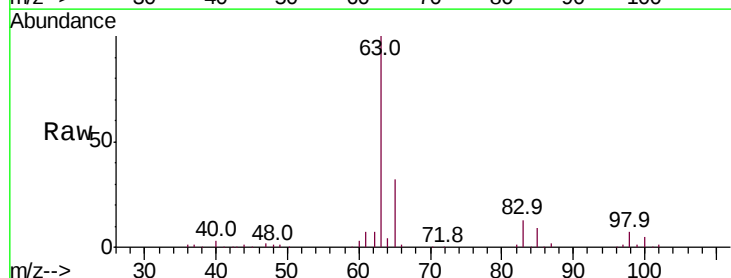
Tgt Ion: 63 Resp: 90128

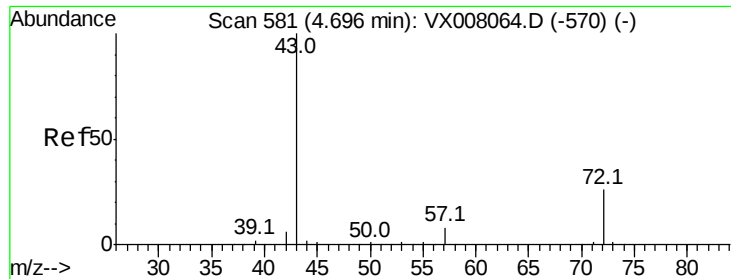
Ion Ratio Lower Upper

63 100

98 6.8 3.3 9.8

100 4.7 2.3 6.8





#25

2-Butanone

Concen: 95.380 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 221752

Ion Ratio Lower Upper

43 100

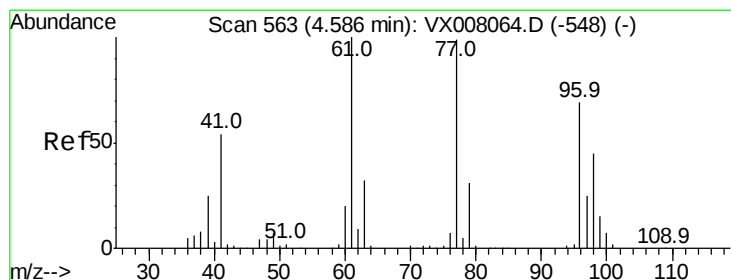
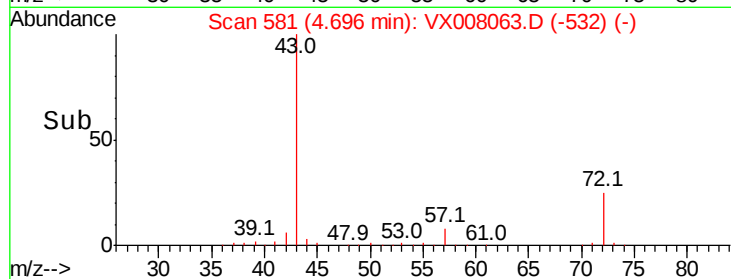
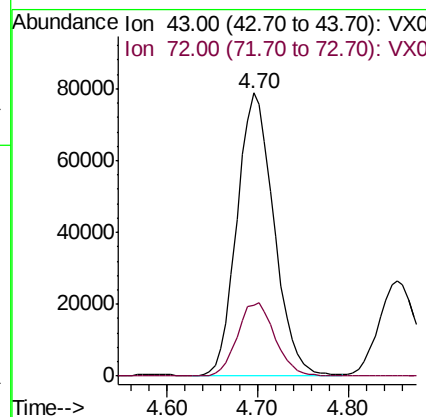
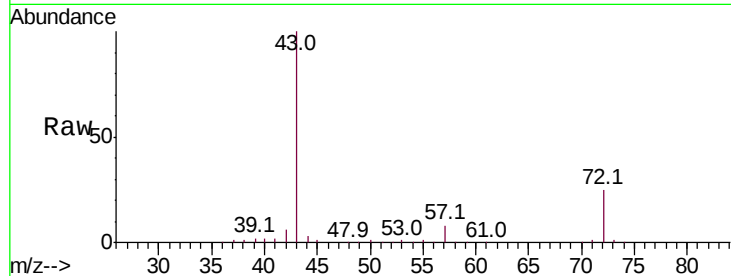
72 25.2 19.9 29.9

Manual Integrations

APPROVED

MMDadoda

3/15/2019 9:06:52 AM



#26

2,2-Dichloropropane

Concen: 18.623 ug/l

RT: 4.59 min Scan# 563

Delta R.T. -0.00 min

Lab File: VX008063.D

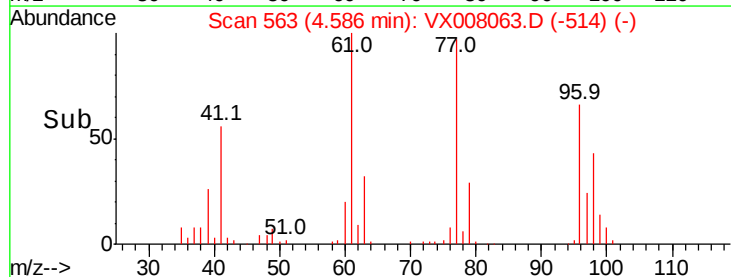
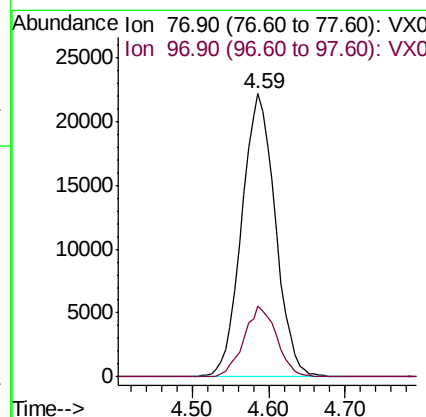
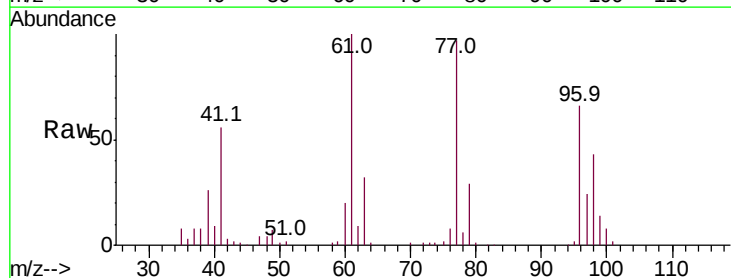
Acq: 14 Mar 2019 10:32

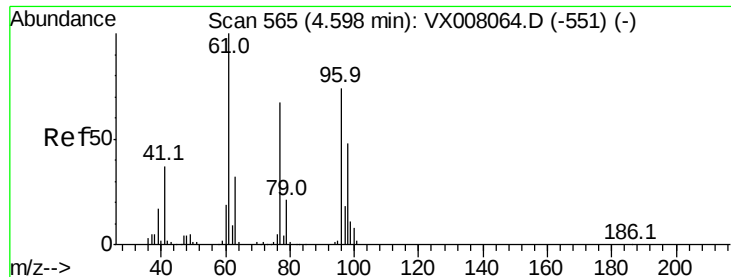
Tgt Ion: 77 Resp: 67627

Ion Ratio Lower Upper

77 100

97 24.4 12.2 36.6





#27

cis-1,2-Dichloroethene

Concen: 19.285 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Instrument :

MSVOA_X

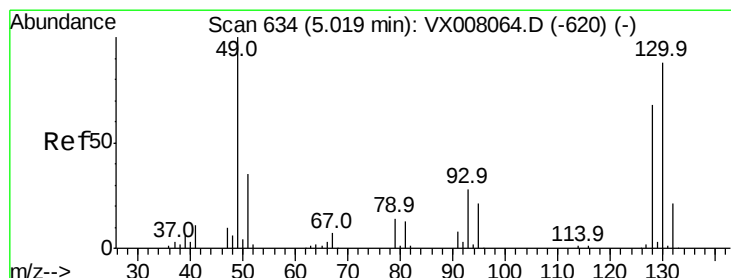
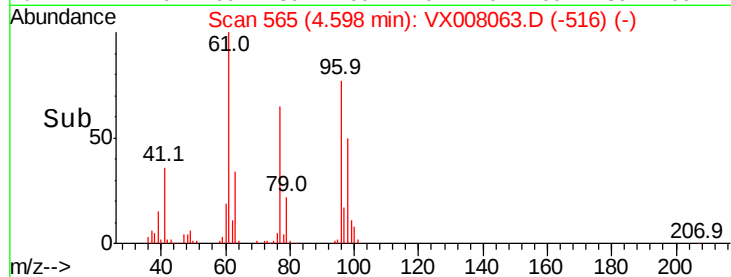
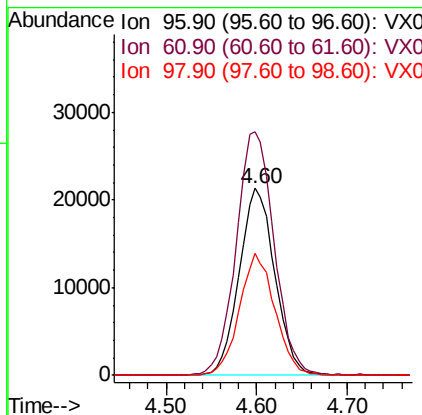
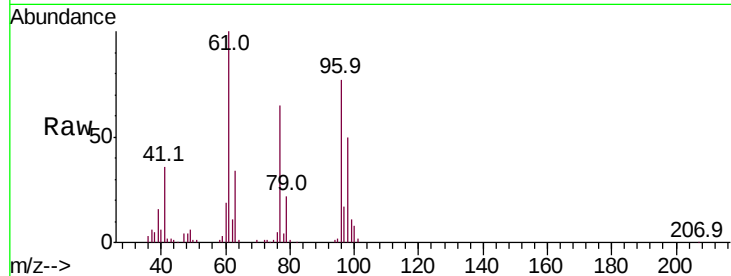
ClientSampleId :

VSTDIC020

Tot Ion:	96	Resp:	58177
Ion	Ratio	Lower	Upper
96	100		
61	138.7	0.0	288.0
98	64.9	0.0	129.0

Manual Integrations
APPROVED

MMDadoda
3/15/2019 9:06:52 AM



#28

Bromochloromethane

Concen: 19.527 ug/l

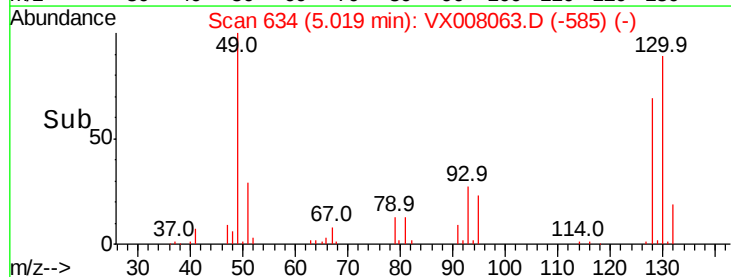
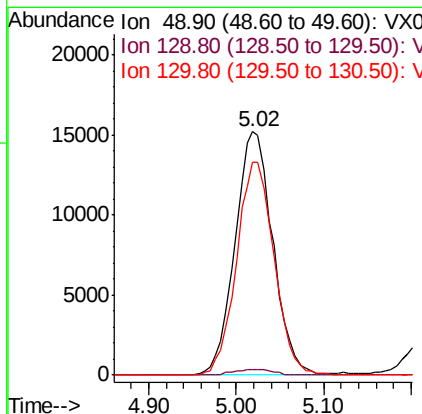
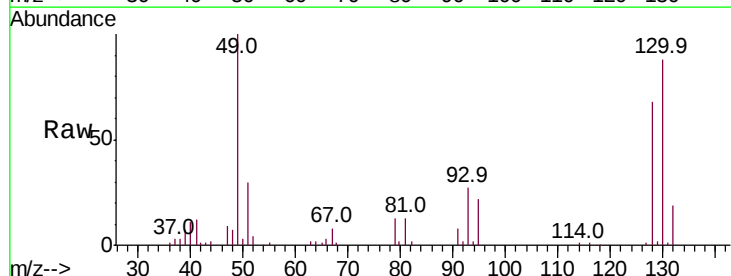
RT: 5.02 min Scan# 634

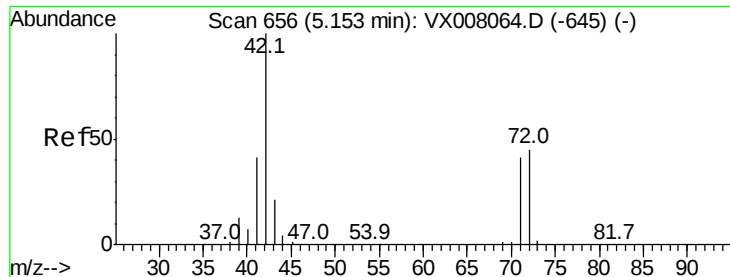
Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Tgt Ion:	49	Resp:	45665
Ion	Ratio	Lower	Upper
49	100		
129	2.4	0.0	4.0
130	86.7	65.0	97.4





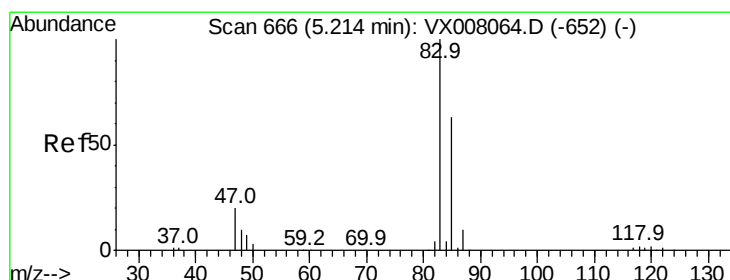
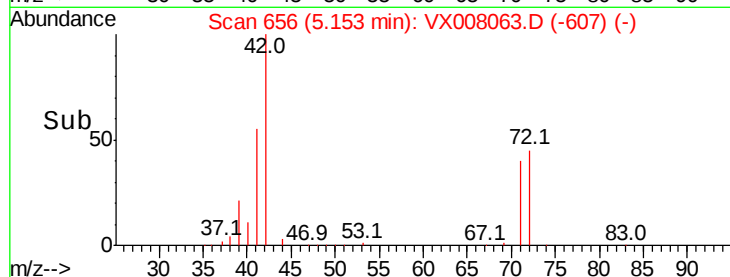
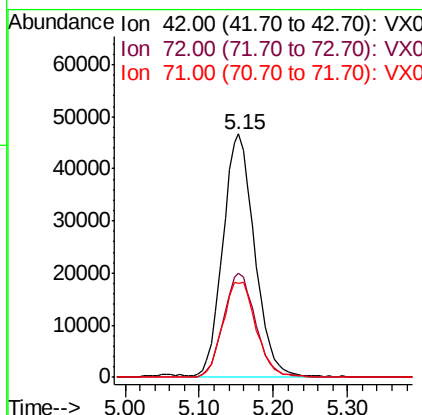
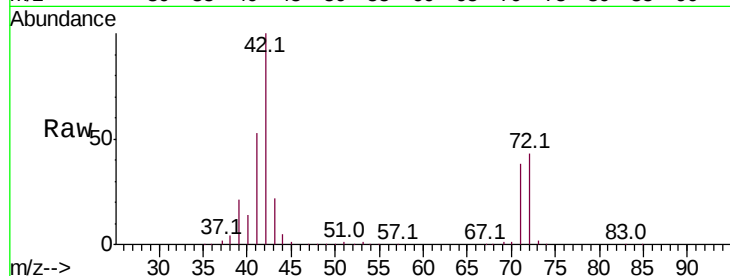
#29
Tetrahydrofuran
Concen: 93.717 ug/l
RT: 5.15 min Scan# 656
Delta R.T. -0.00 min
Lab File: VX008063.D
Acq: 14 Mar 2019 10:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.7	33.8	50.6
71	41.3	31.5	47.3

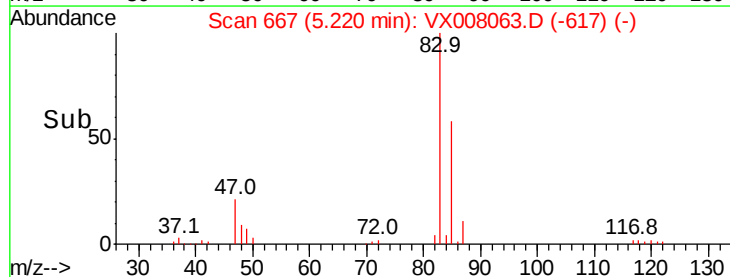
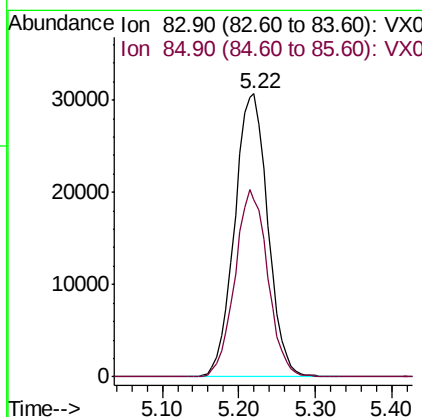
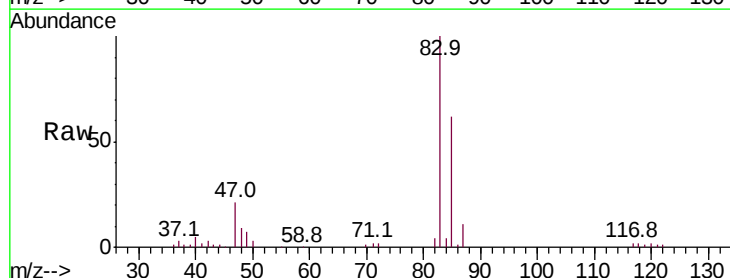
Manual Integrations
APPROVED

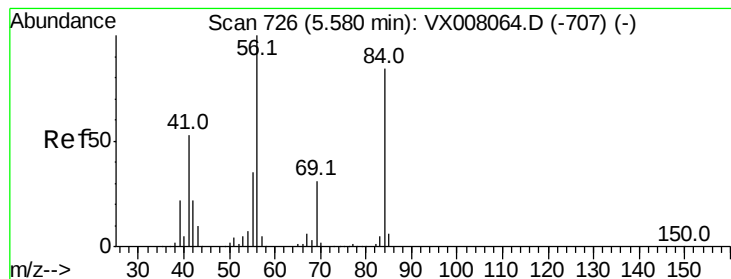
MMDadoda
3/15/2019 9:06:52 AM



#30
Chloroform
Concen: 19.461 ug/l
RT: 5.22 min Scan# 667
Delta R.T. 0.01 min
Lab File: VX008063.D
Acq: 14 Mar 2019 10:32

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.4	51.8	77.6





#31

Cyclohexane

Concen: 19.033 ug/l

RT: 5.58 min Scan# 726

Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Instrument :

MSVOA_X

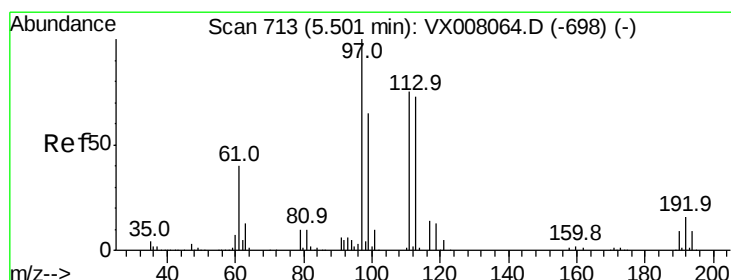
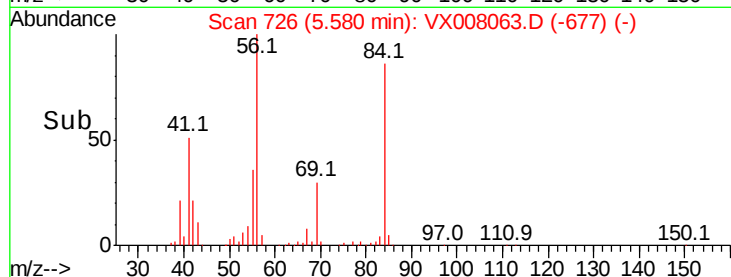
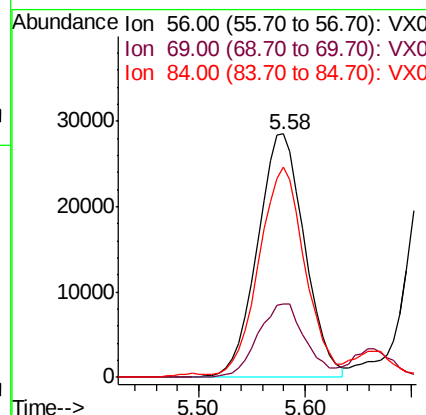
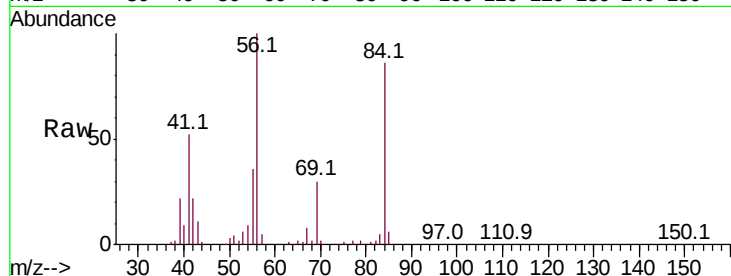
ClientSampleId :

VSTDIC020

Tot Ion:	56	Resp:	87872
Ion Ratio	Lower	Upper	
56	100		
69	29.6	24.0	36.0
84	84.9	65.3	97.9

Manual Integrations
APPROVED

MMDadoda
3/15/2019 9:06:52 AM



#32

1,1,1-Trichloroethane

Concen: 18.586 ug/l

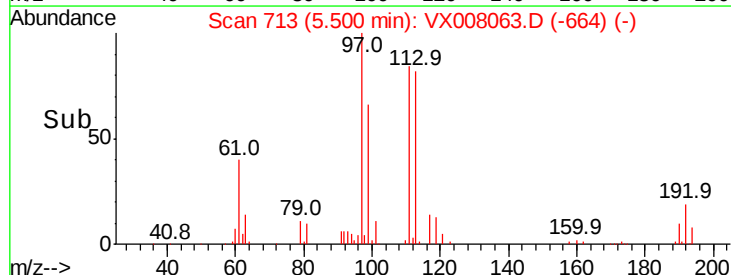
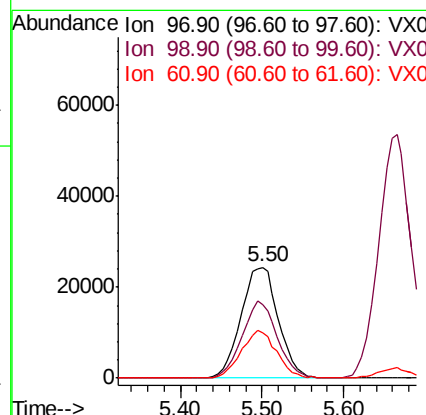
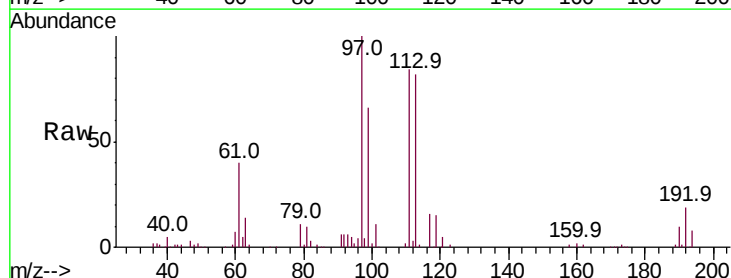
RT: 5.50 min Scan# 713

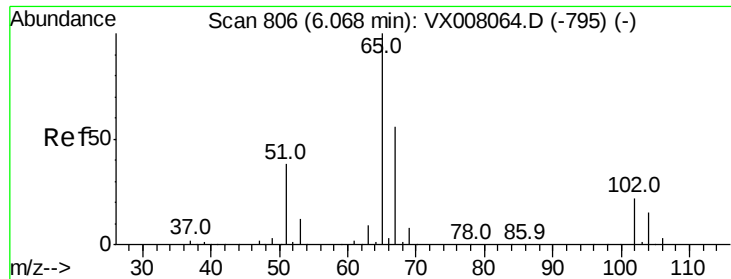
Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Tgt Ion:	97	Resp:	77224
Ion Ratio	Lower	Upper	
97	100		
99	65.3	52.2	78.2
61	41.0	34.9	52.3





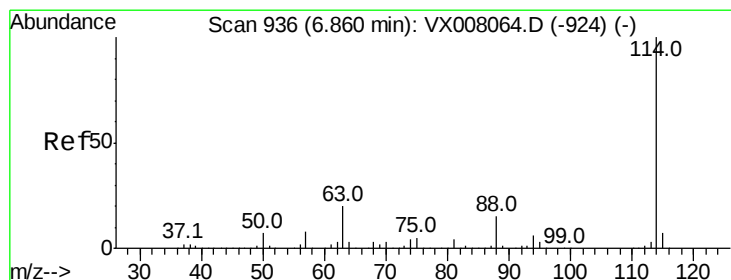
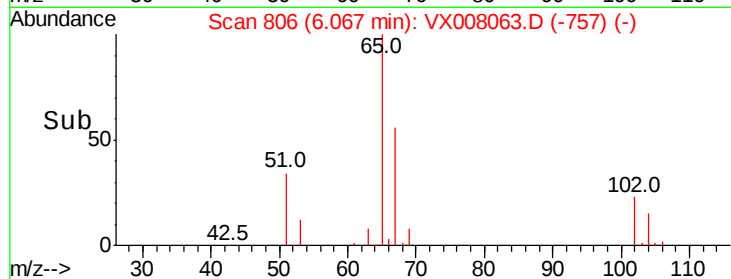
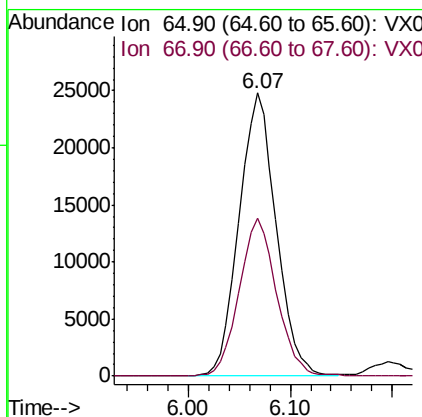
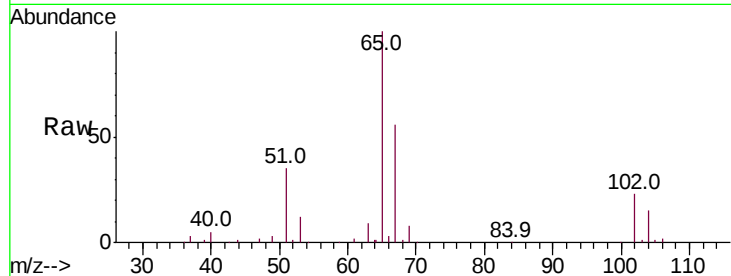
#33
 1,2-Dichloroethane-d4
 Concen: 20.285 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX008063.D
 Acq: 14 Mar 2019 10:32

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
65	100		
67	56.2	0.0	110.0

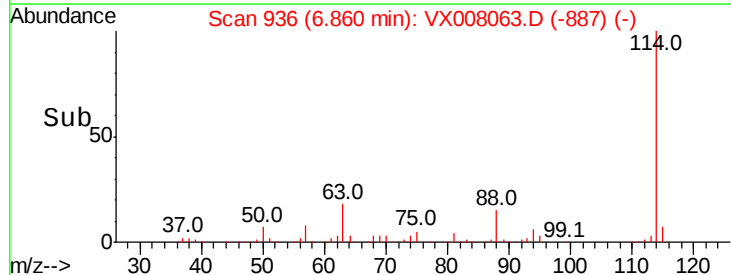
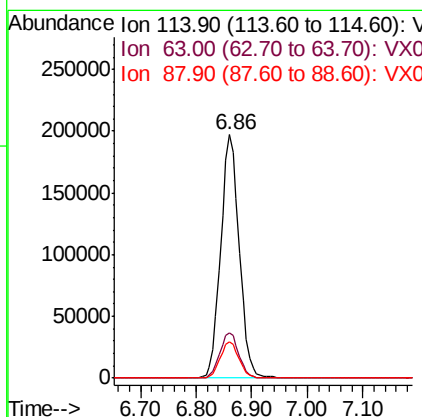
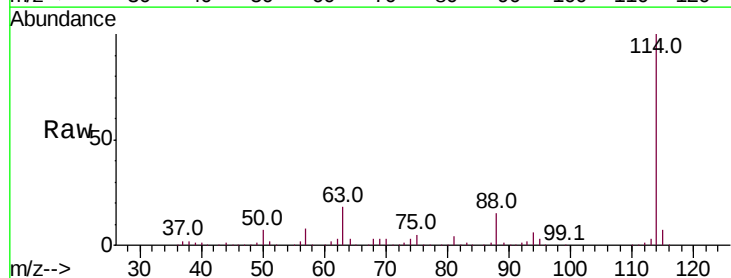
Manual Integrations
 APPROVED

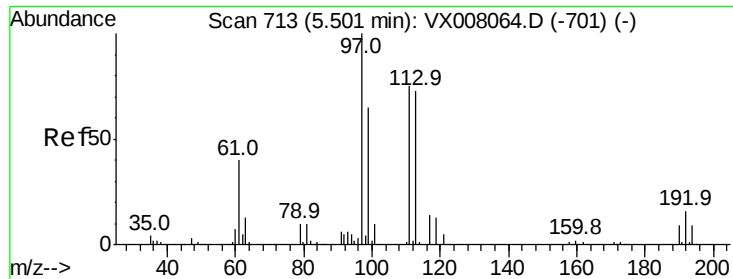
MMDadoda
 3/15/2019 9:06:52 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008063.D
 Acq: 14 Mar 2019 10:32

Tgt Ion	Ratio	Lower	Upper
114	100		
63	18.5	0.0	39.8
88	14.7	0.0	31.4





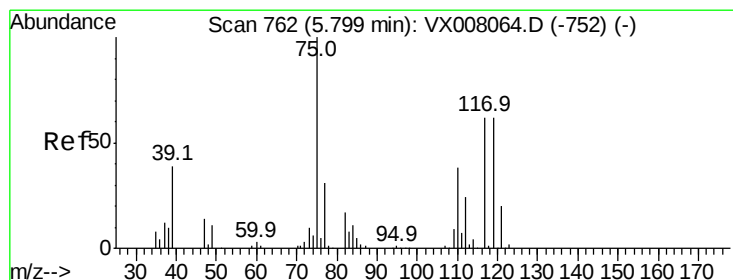
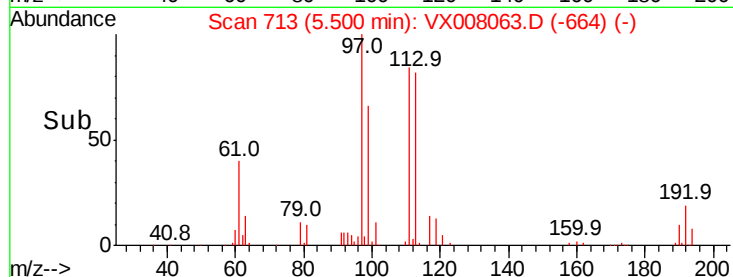
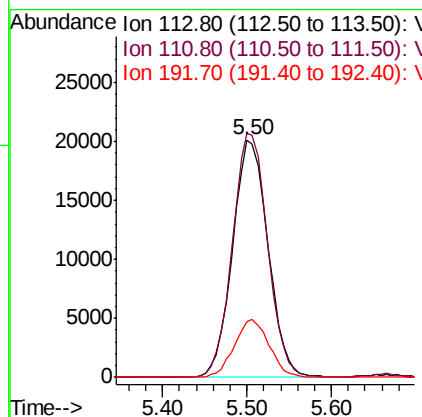
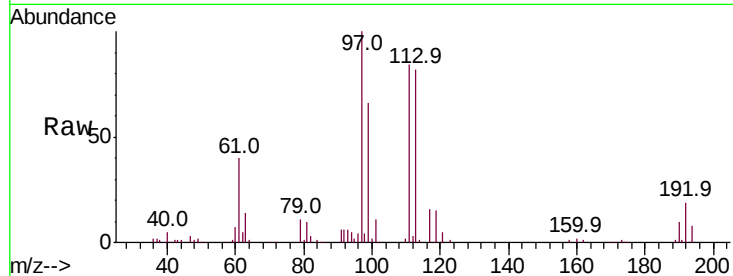
#35
Dibromofluoromethane
Concen: 20.794 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX008063.D
Acq: 14 Mar 2019 10:32

Instrument :
MSVOA_X
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.4	122.0
192	23.9	19.4	29.0

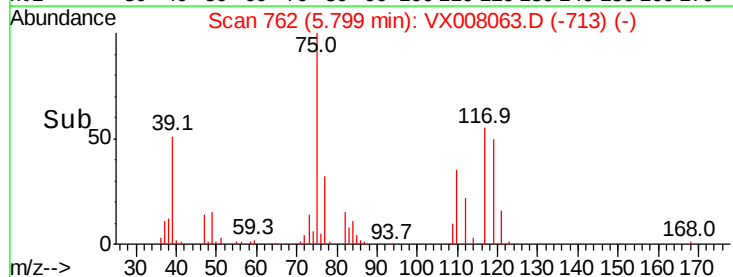
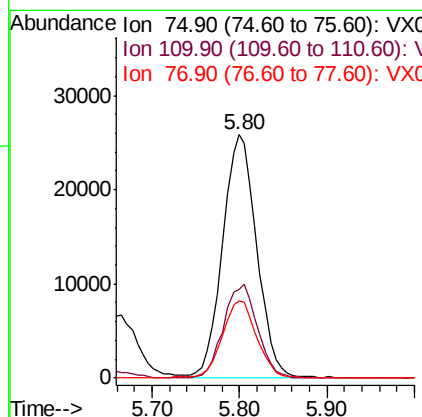
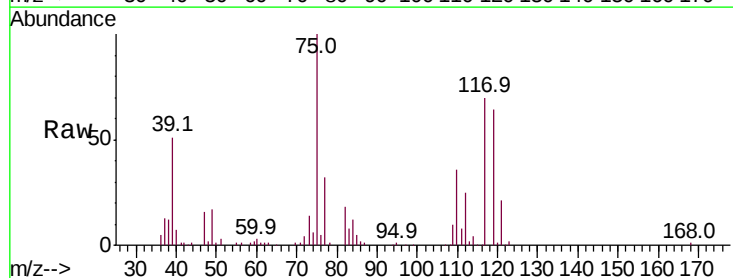
Manual Integrations
APPROVED

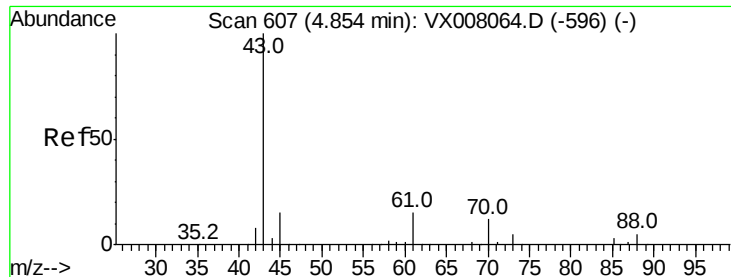
MMDadoda
3/15/2019 9:06:52 AM



#36
1,1-Dichloropropene
Concen: 19.333 ug/l
RT: 5.80 min Scan# 762
Delta R.T. -0.00 min
Lab File: VX008063.D
Acq: 14 Mar 2019 10:32

Tgt Ion	Ratio	Lower	Upper
75	100		
110	38.1	18.4	55.0
77	31.8	25.0	37.4





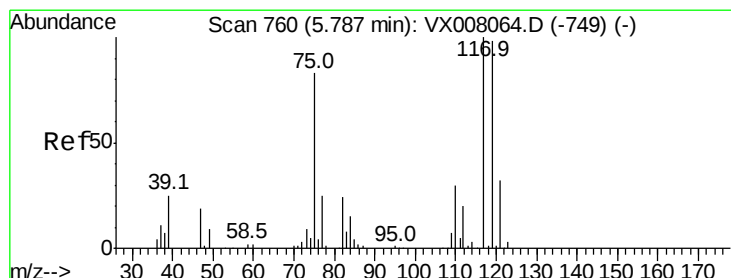
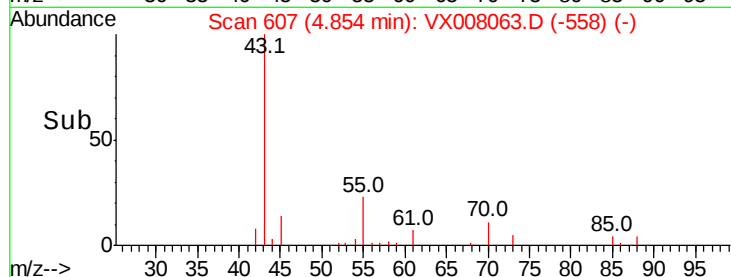
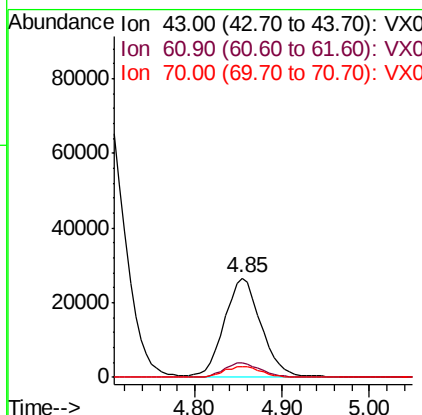
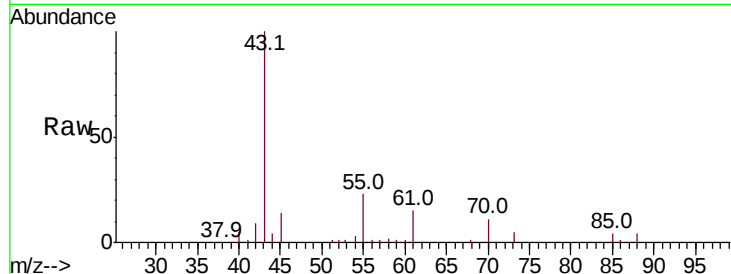
#37
Ethyl Acetate
Concen: 19.059 ug/l
RT: 4.85 min Scan# 607
Delta R.T. -0.00 min
Lab File: VX008063.D
Acq: 14 Mar 2019 10:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion:	43	Resp:	76550
Ion	Ratio	Lower	Upper
43	100		
61	14.8	11.3	16.9
70	11.5	8.5	12.7

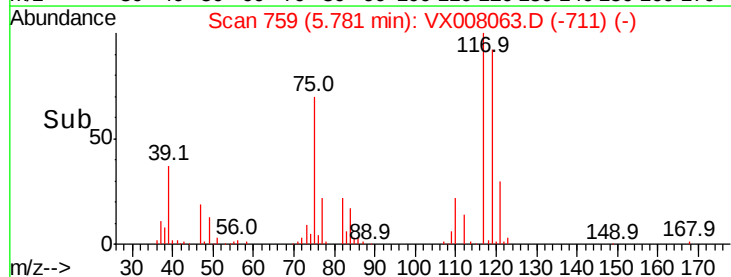
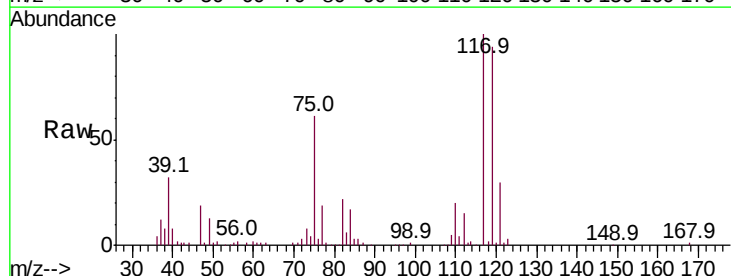
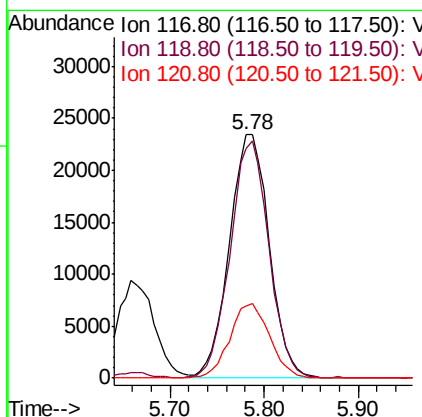
Manual Integrations
APPROVED

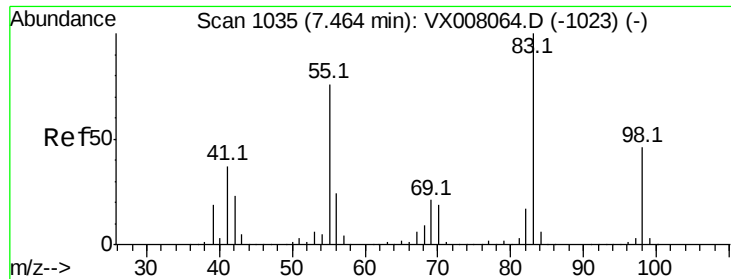
MMDadoda
3/15/2019 9:06:52 AM



#38
Carbon Tetrachloride
Concen: 19.291 ug/l
RT: 5.78 min Scan# 759
Delta R.T. -0.01 min
Lab File: VX008063.D
Acq: 14 Mar 2019 10:32

Tgt Ion:	117	Resp:	69219
Ion	Ratio	Lower	Upper
117	100		
119	93.6	76.2	114.2
121	29.7	24.6	36.8





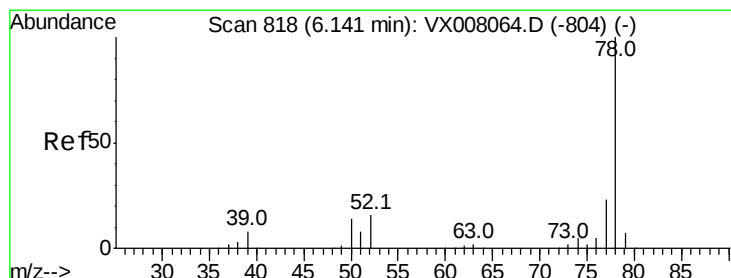
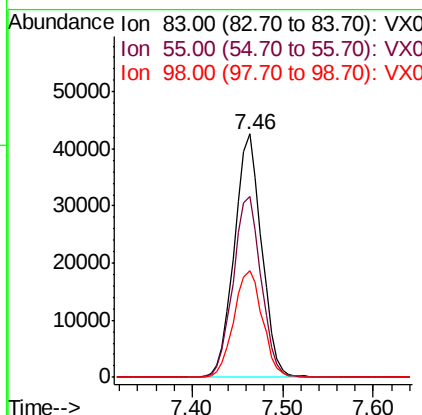
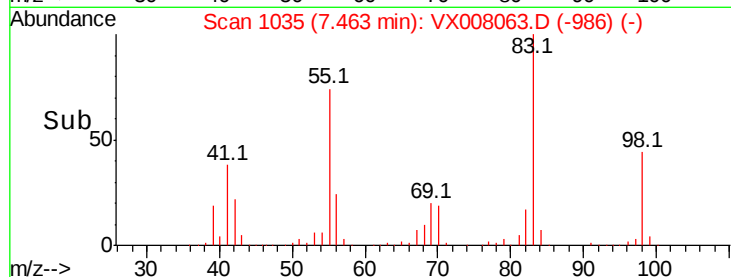
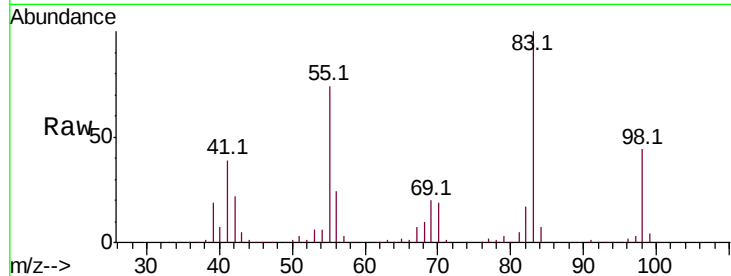
#39
Methylvlcvclohexane
Concen: 18.814 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. -0.00 min
Lab File: VX008063.D
Acq: 14 Mar 2019 10:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
83	100		
55	74.2	60.4	90.6
98	43.8	36.5	54.7

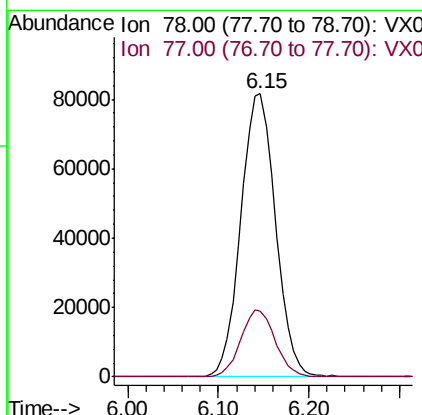
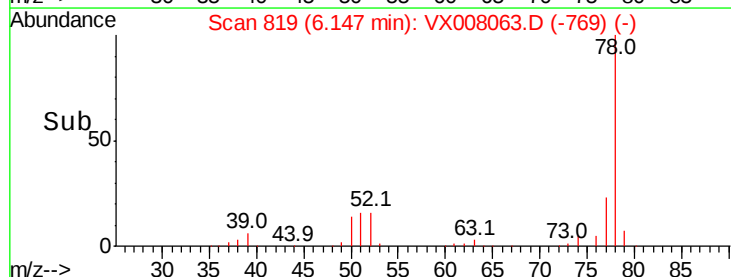
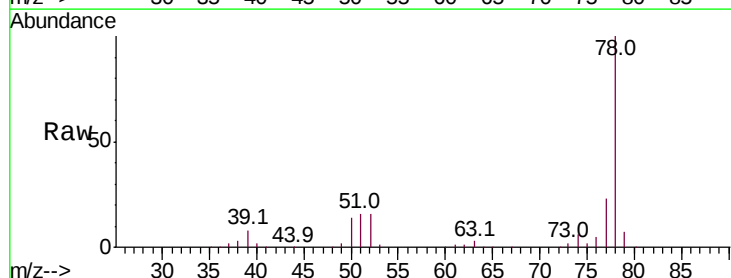
Manual Integrations
APPROVED

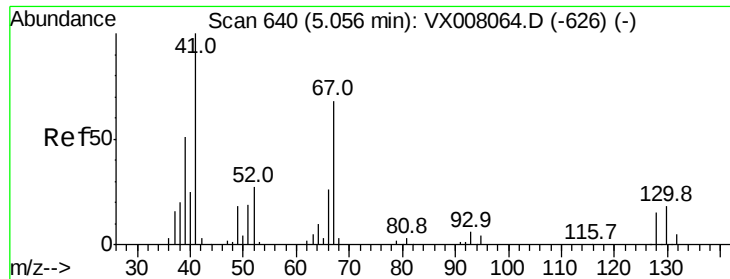
MMDadoda
3/15/2019 9:06:52 AM



#40
Benzene
Concen: 19.489 ug/l
RT: 6.15 min Scan# 819
Delta R.T. 0.01 min
Lab File: VX008063.D
Acq: 14 Mar 2019 10:32

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.0	28.4





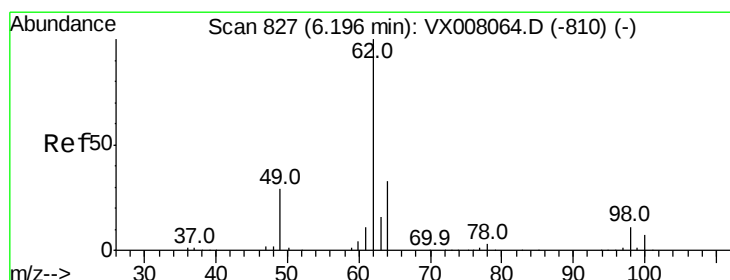
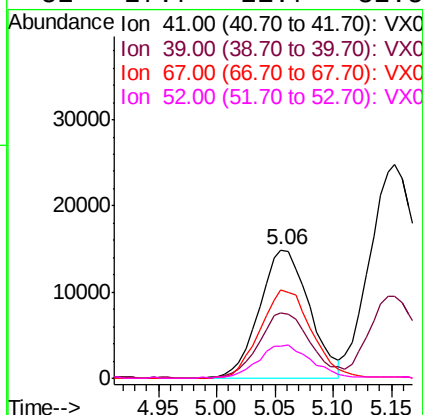
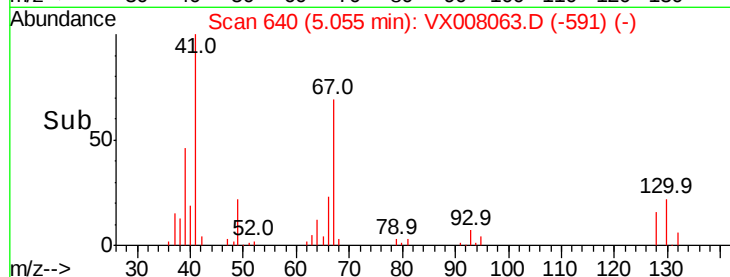
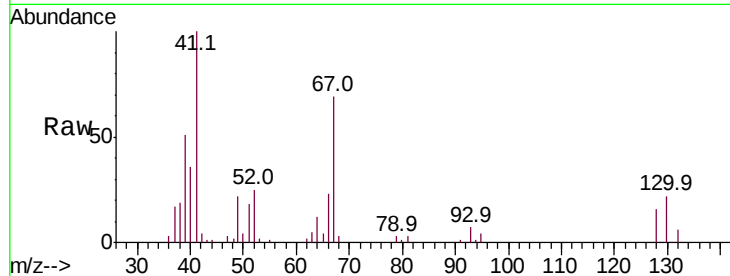
#41
Methacrylonitrile
Concen: 19.356 ug/l
RT: 5.06 min Scan# 640
Delta R.T. -0.00 min
Lab File: VX008063.D
Acq: 14 Mar 2019 10:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	53.1	41.6	62.4	
67	71.0	55.8	83.6	
52	27.7	21.7	32.5	

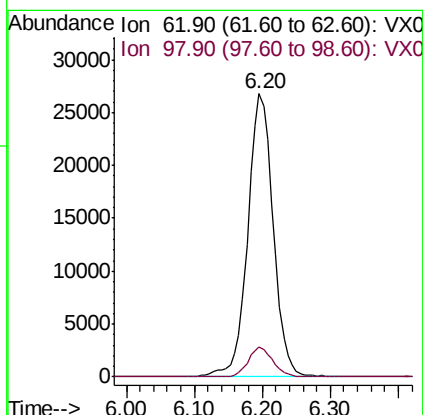
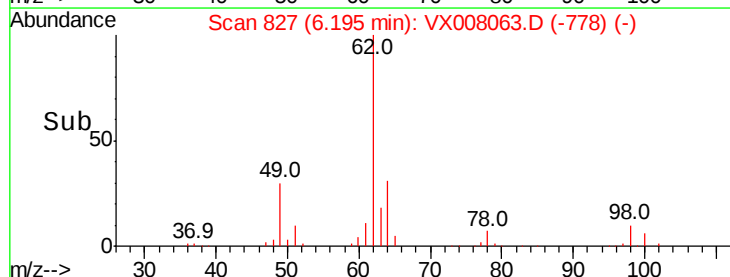
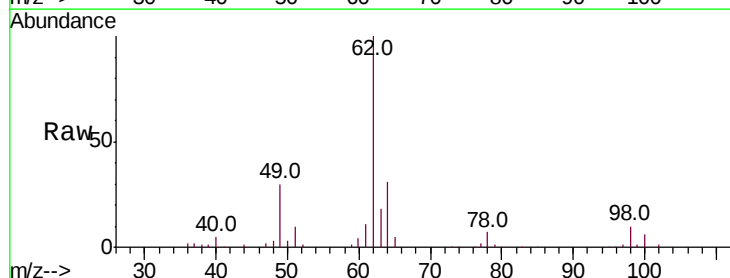
Manual Integrations
APPROVED

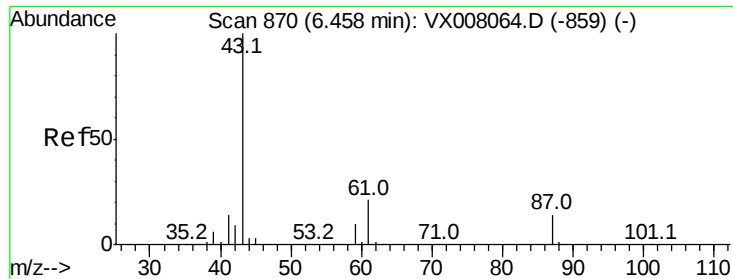
MMDadoda
3/15/2019 9:06:52 AM



#42
1,2-Dichloroethane
Concen: 19.674 ug/l
RT: 6.20 min Scan# 827
Delta R.T. -0.00 min
Lab File: VX008063.D
Acq: 14 Mar 2019 10:32

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	10.1	0.0	20.4	





#43

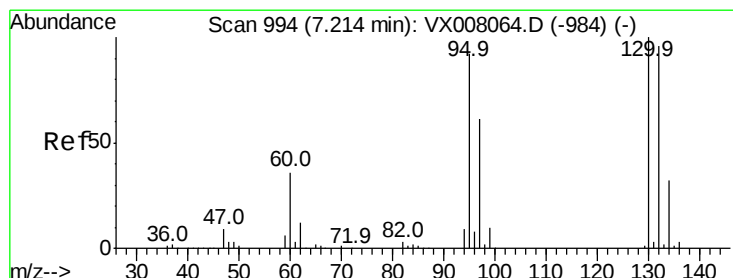
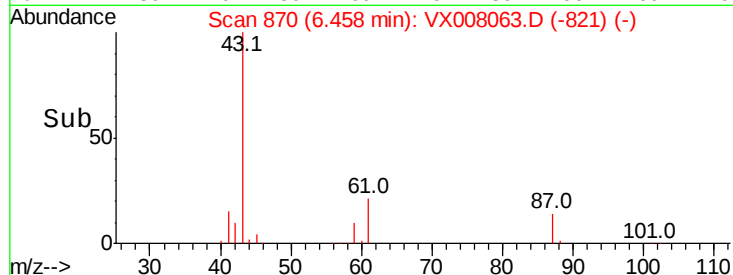
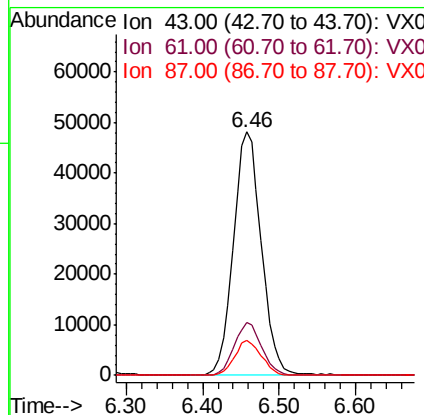
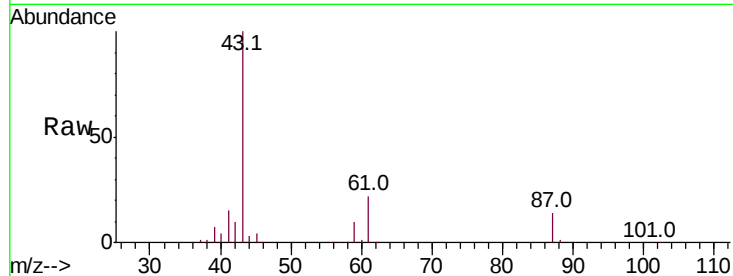
Isopropyl Acetate
 Concen: 18.704 ug/l
 RT: 6.46 min Scan# 870
 Delta R.T. -0.00 min
 Lab File: VX008063.D
 Acq: 14 Mar 2019 10:32

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	21.7	16.3	24.5
87	13.8	10.5	15.7

Manual Integrations
 APPROVED

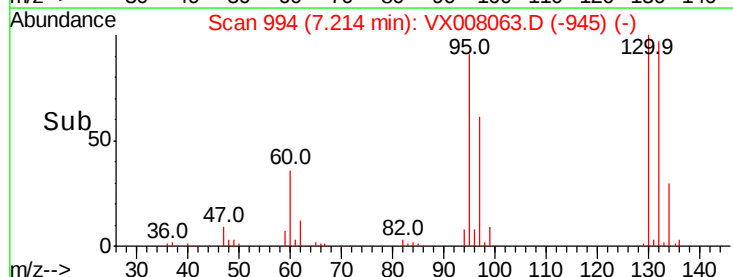
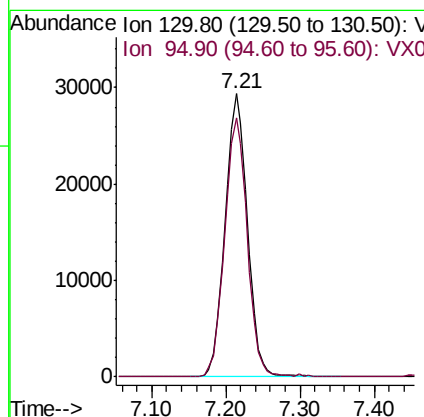
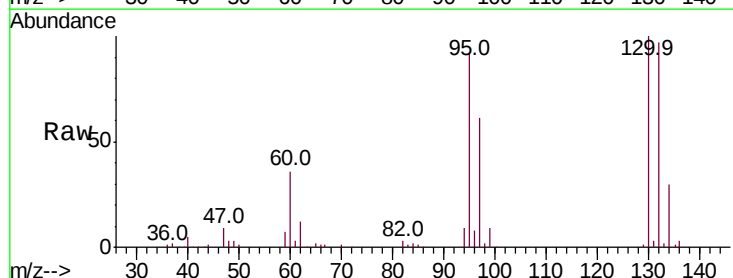
MMDadoda
 3/15/2019 9:06:52 AM

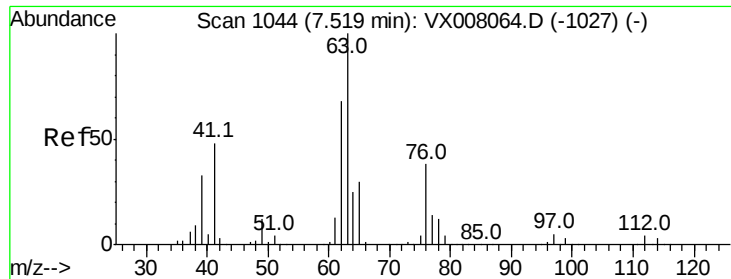


#44

Trichloroethene
 Concen: 19.362 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. -0.00 min
 Lab File: VX008063.D
 Acq: 14 Mar 2019 10:32

Tgt Ion	Ratio	Lower	Upper
130	100		
95	91.7	0.0	188.0





#45

1,2-Dichloropropane

Concen: 19.192 ug/l

RT: 7.51 min Scan# 1043

Delta R.T. -0.01 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion: 63 Resp: 57008

Ion Ratio Lower Upper

63 100

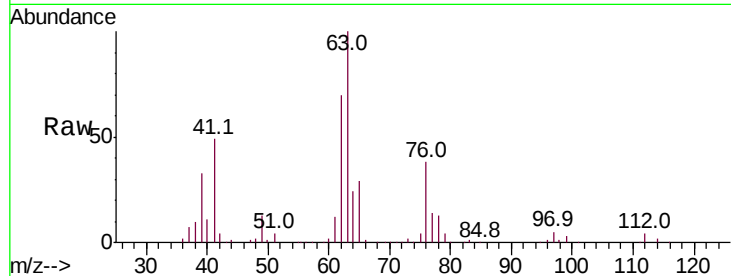
65 28.6 24.7 37.1

Manual Integrations

APPROVED

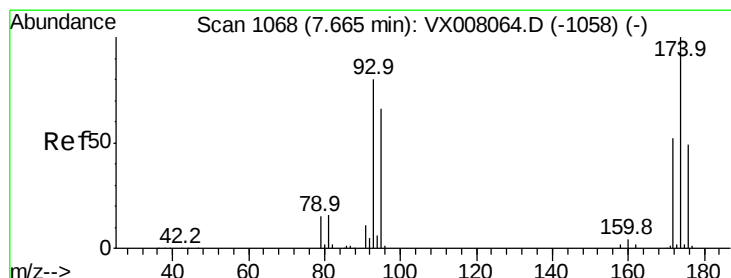
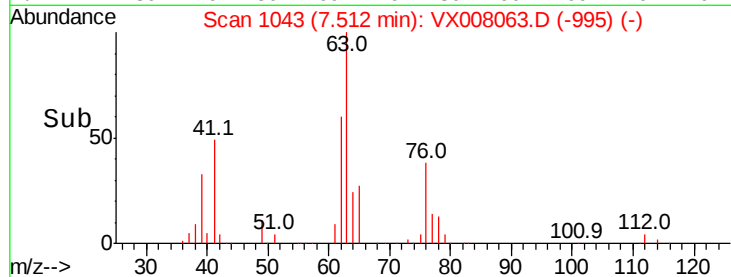
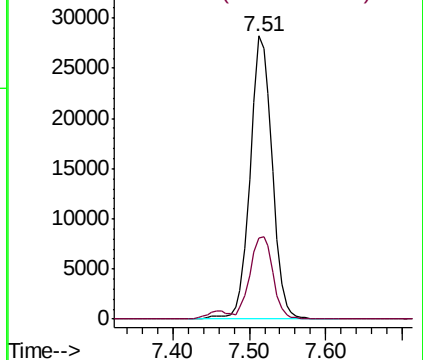
MMDadoda

3/15/2019 9:06:52 AM



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 64.90 (64.60 to 65.60): VX0



#46

Dibromomethane

Concen: 19.335 ug/l

RT: 7.66 min Scan# 1068

Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

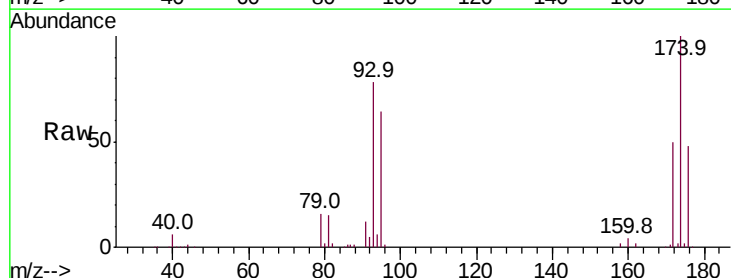
Tgt Ion: 93 Resp: 36368

Ion Ratio Lower Upper

93 100

95 85.9 66.8 100.2

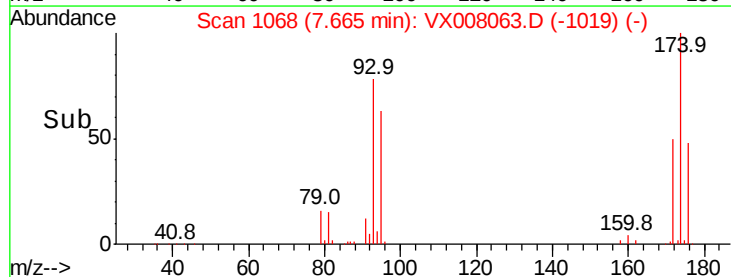
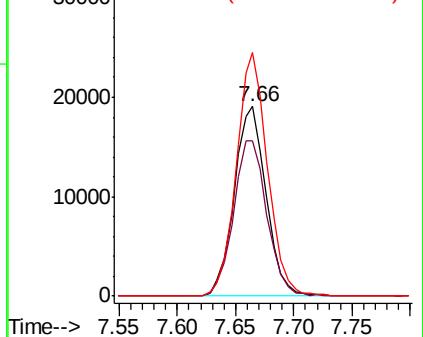
174 125.5 97.3 145.9

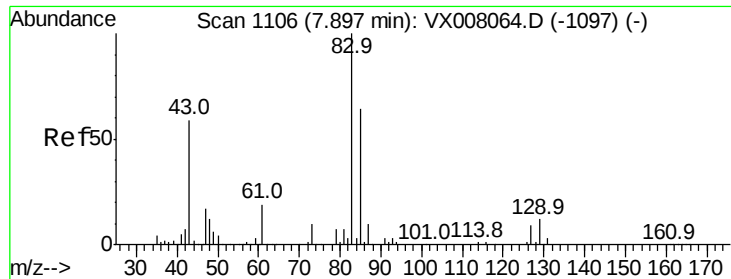


Abundance Ion 92.80 (92.50 to 93.50): VX0

Ion 94.80 (94.50 to 95.50): VX0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 18.659 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Instrument :

MSVOA_X

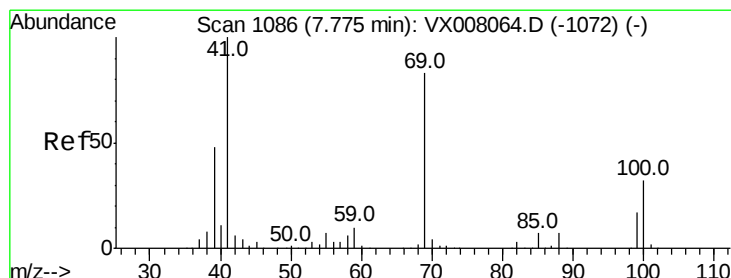
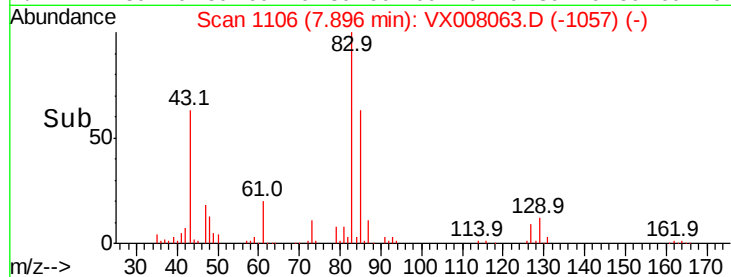
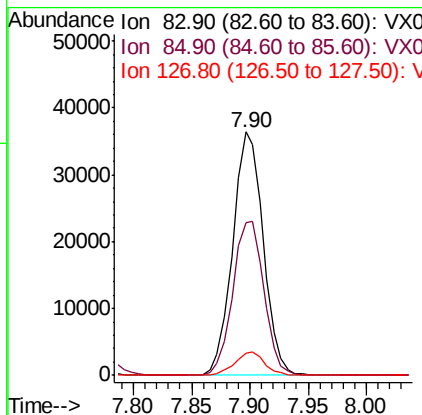
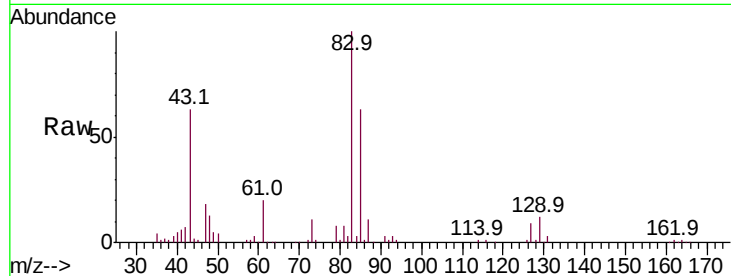
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	66541
Ion	Ratio	Lower	Upper
83	100		
85	63.0	50.9	76.3
127	9.2	7.4	11.0

Manual Integrations
APPROVED

MMDadoda
3/15/2019 9:06:52 AM



#48

Methyl methacrylate

Concen: 18.592 ug/l

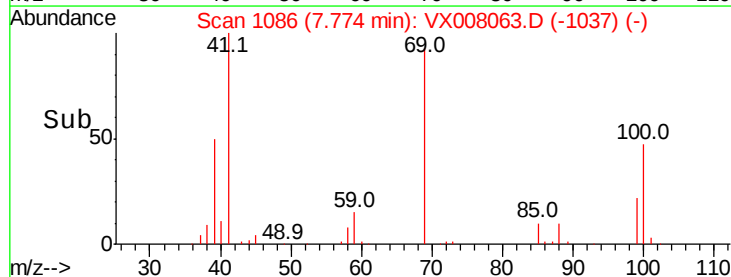
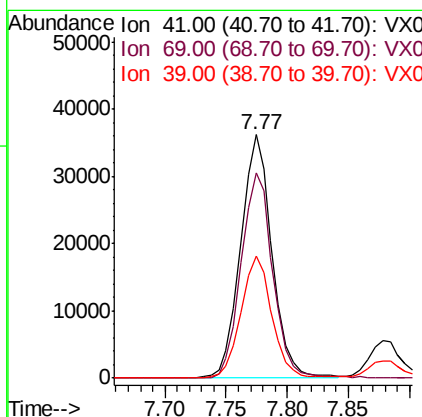
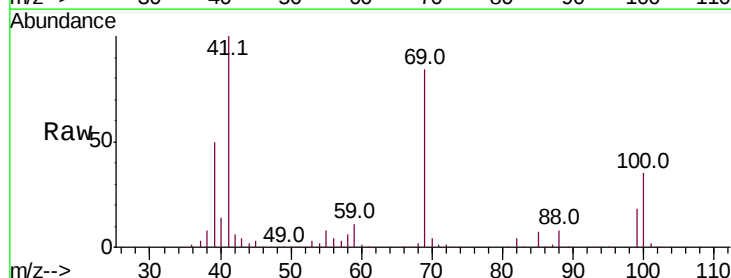
RT: 7.77 min Scan# 1086

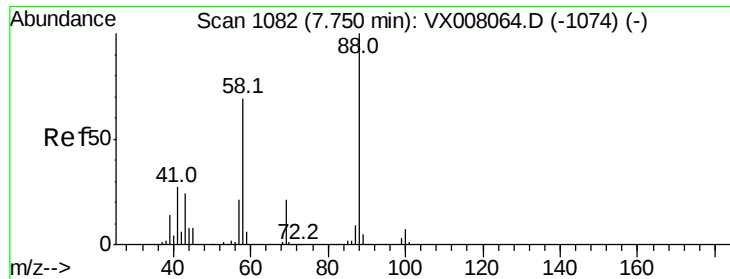
Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Tgt Ion:	41	Resp:	64257
Ion	Ratio	Lower	Upper
41	100		
69	85.8	65.2	97.8
39	49.3	39.4	59.2





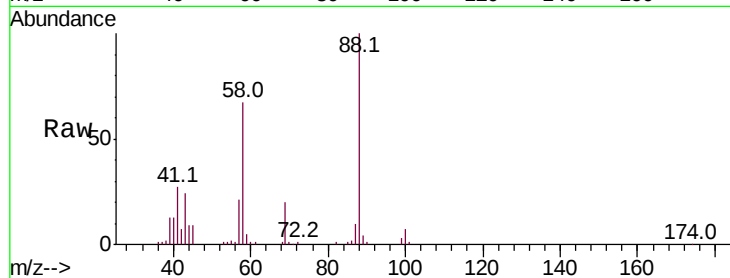
#49
1,4-Dioxane
Concen: 389.074 ug/l
RT: 7.75 min Scan# 1082
Delta R.T. -0.00 min
Lab File: VX008063.D
Acq: 14 Mar 2019 10:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
88	100		
43	30.7	25.1	37.7
58	71.8	57.8	86.6

Manual Integrations
APPROVED

MMDadoda
3/15/2019 9:06:52 AM

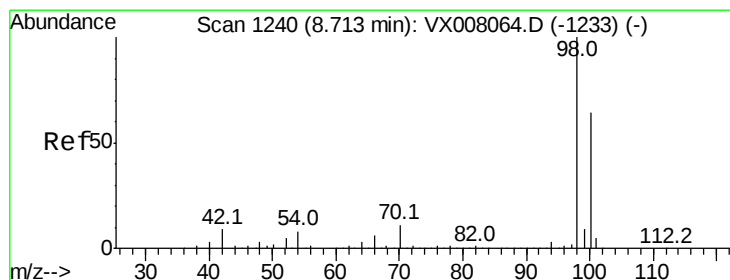
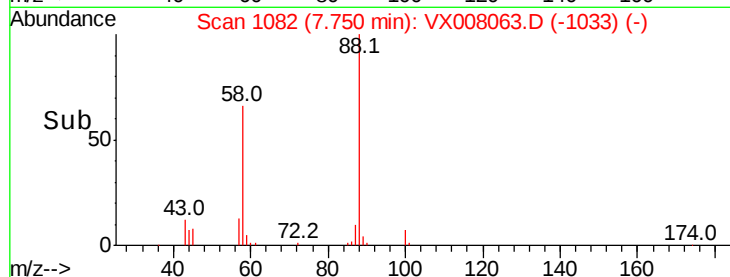
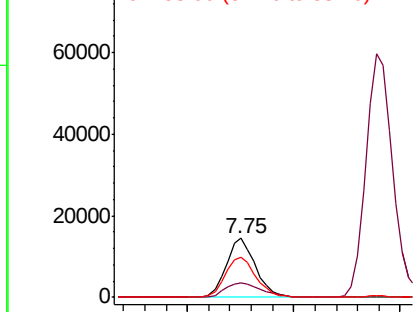


Abundance

Ion 88.00 (87.70 to 88.70): VX0

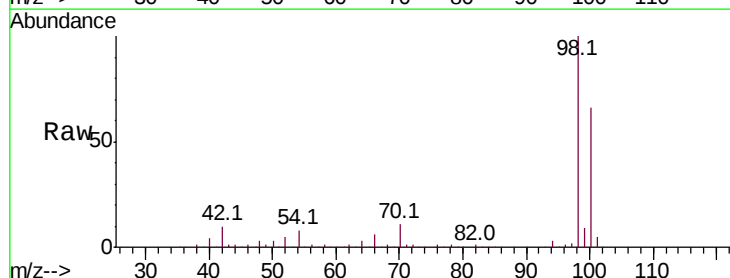
Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50
Toluene-d8
Concen: 20.468 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX008063.D
Acq: 14 Mar 2019 10:32

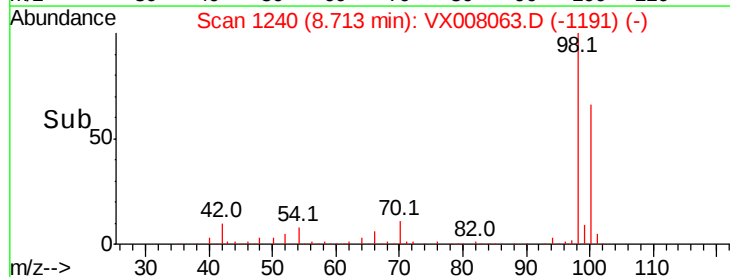
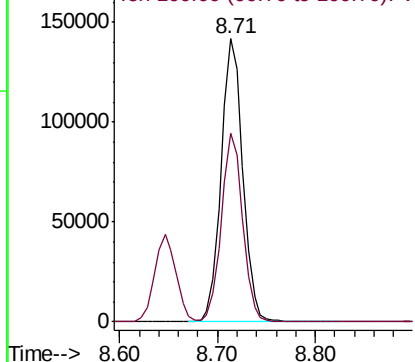
Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.1	51.7	77.5

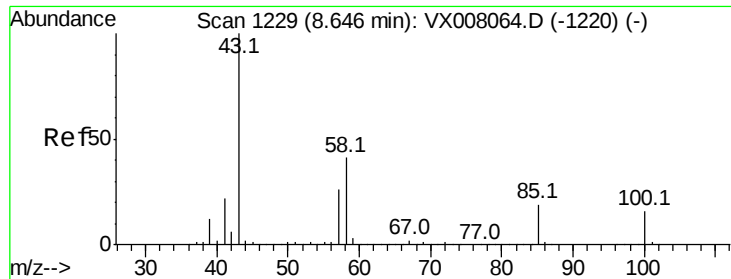


Abundance

Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





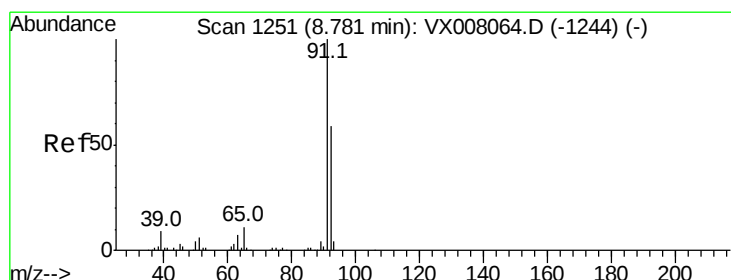
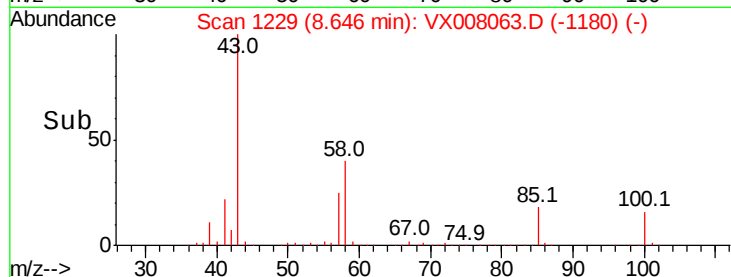
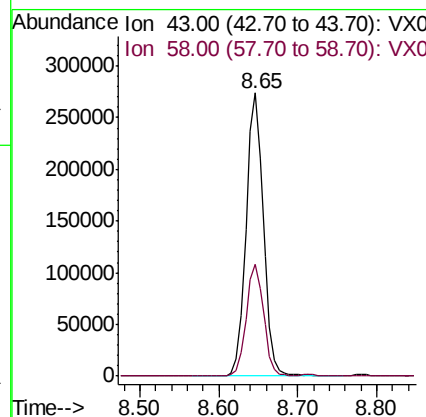
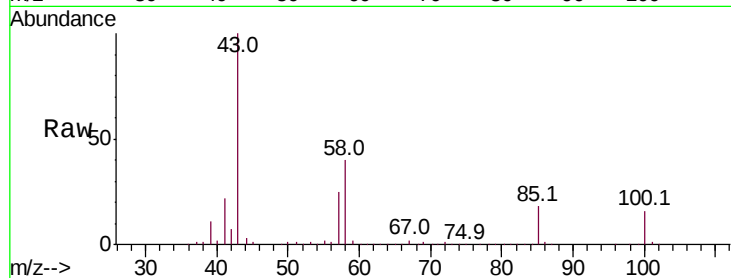
#51
4-Methyl-2-Pentanone
Concen: 98.021 ug/l
RT: 8.65 min Scan# 1229
Delta R.T. -0.00 min
Lab File: VX008063.D
Acq: 14 Mar 2019 10:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
58	39.8	31.3	46.9

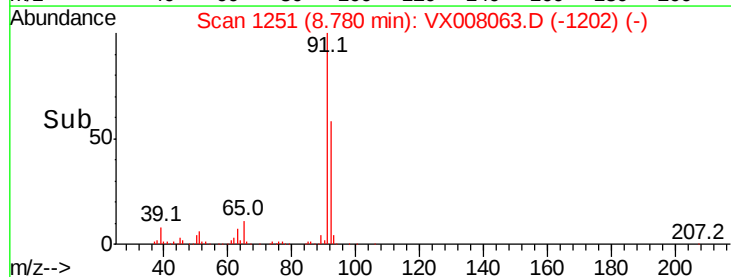
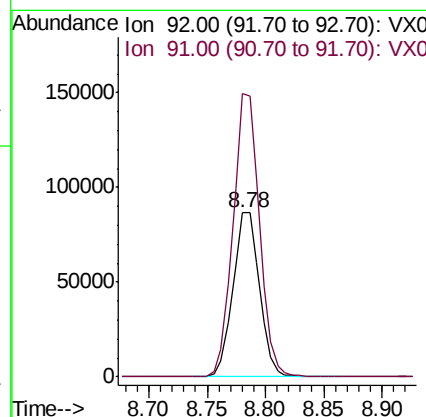
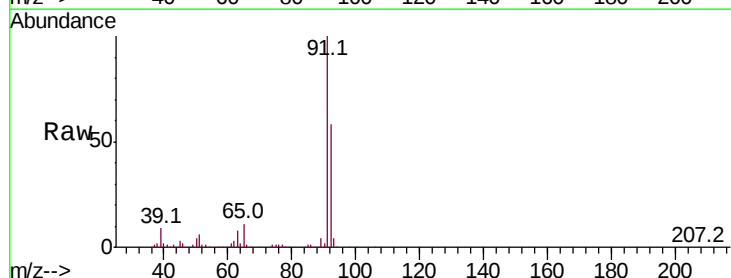
Manual Integrations
APPROVED

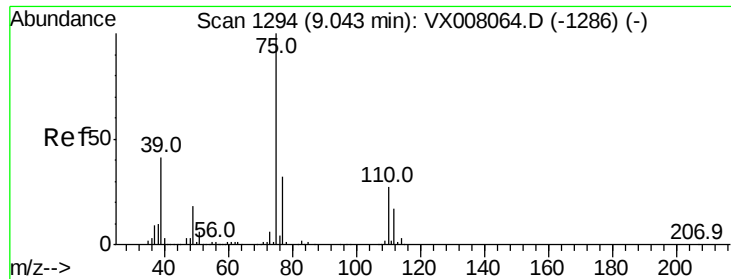
MMDadoda
3/15/2019 9:06:52 AM



#52
Toluene
Concen: 19.348 ug/l
RT: 8.78 min Scan# 1251
Delta R.T. -0.00 min
Lab File: VX008063.D
Acq: 14 Mar 2019 10:32

Tgt Ion	Ratio	Lower	Upper
92	100		
91	171.8	137.4	206.0





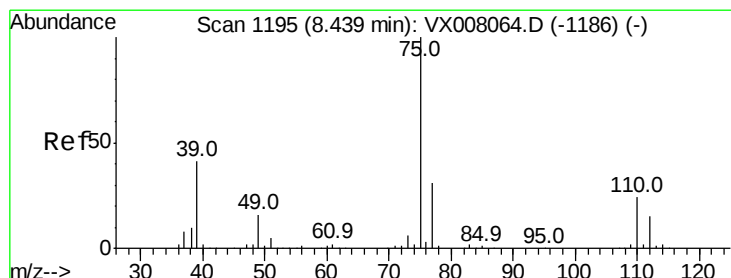
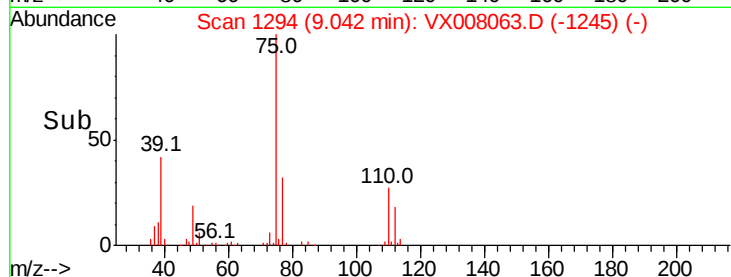
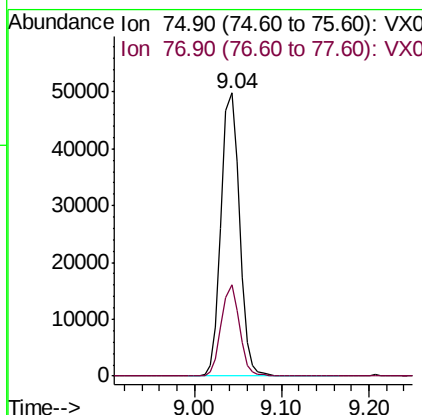
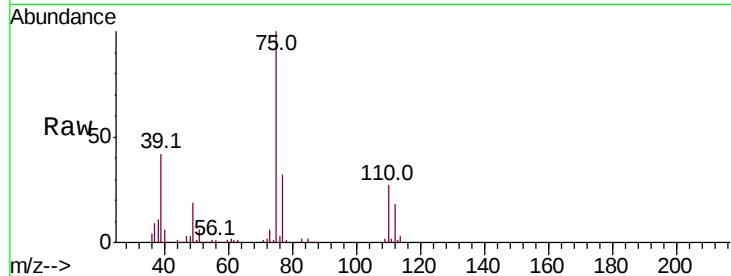
#53
t-1,3-Dichloropropene
Concen: 17.881 ug/l
RT: 9.04 min Scan# 1294
Delta R.T. -0.00 min
Lab File: VX008063.D
Acq: 14 Mar 2019 10:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion: 75 Resp: 72636
Ion Ratio Lower Upper
75 100
77 32.1 25.4 38.0

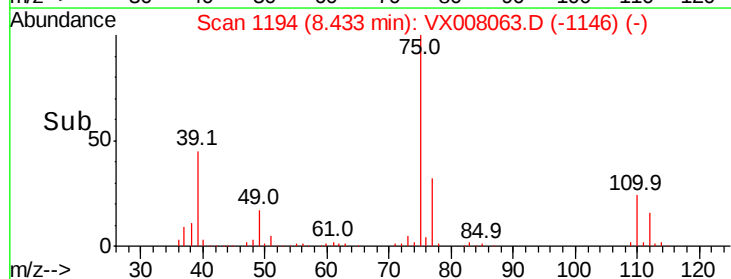
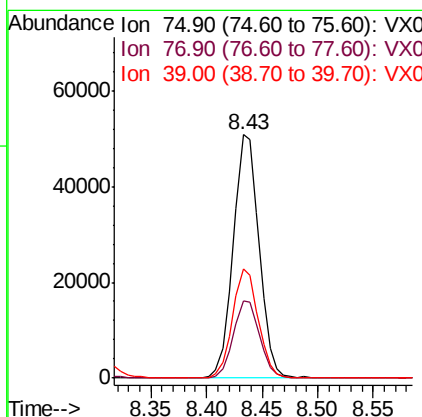
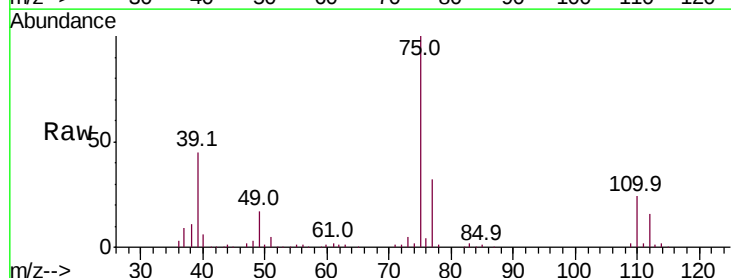
Manual Integrations
APPROVED

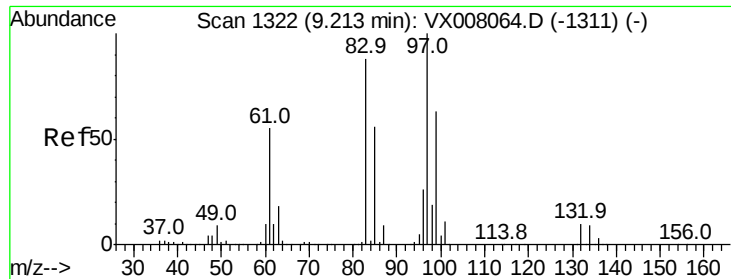
MMDadoda
3/15/2019 9:06:52 AM



#54
cis-1,3-Dichloropropene
Concen: 18.137 ug/l
RT: 8.43 min Scan# 1194
Delta R.T. -0.01 min
Lab File: VX008063.D
Acq: 14 Mar 2019 10:32

Tgt Ion: 75 Resp: 81992
Ion Ratio Lower Upper
75 100
77 31.7 25.0 37.6
39 44.9 36.6 54.8





#55

1,1,2-Trichloroethane

Concen: 19.686 ug/l

RT: 9.21 min Scan# 1322

Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Instrument :

MSVOA_X

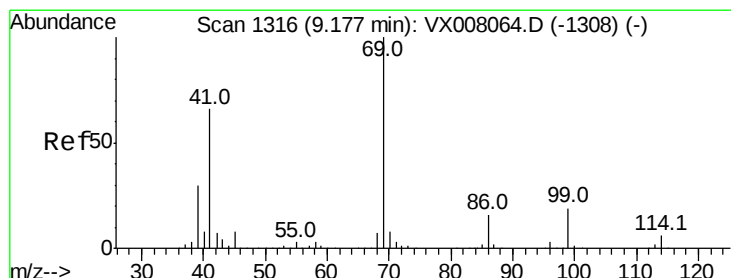
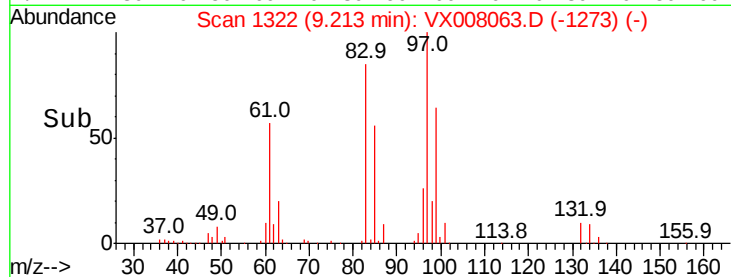
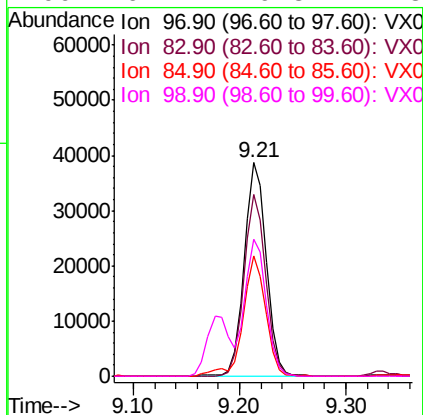
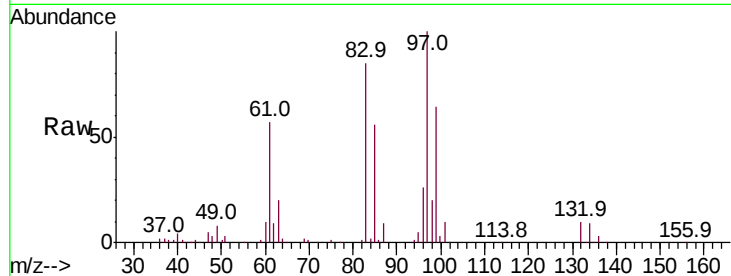
ClientSampleId :

VSTDIC020

Tot Ion:	97	Resp:	56666
Ion	Ratio	Lower	Upper
97	100		
83	85.0	69.1	103.7
85	56.1	44.3	66.5
99	64.1	49.8	74.8

Manual Integrations
APPROVED

MMDadoda
3/15/2019 9:06:52 AM



#56

Ethyl methacrylate

Concen: 19.178 ug/l

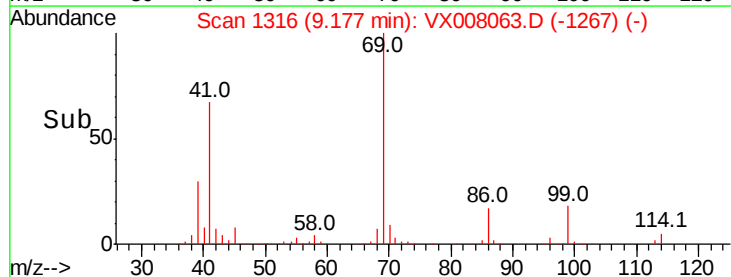
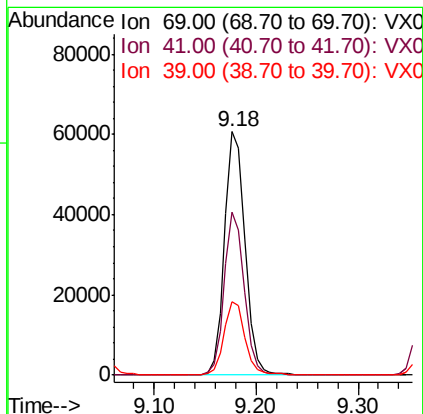
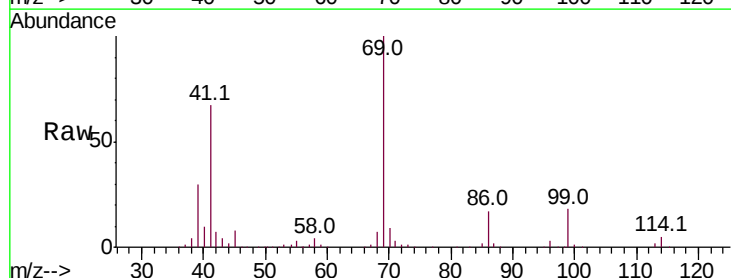
RT: 9.18 min Scan# 1316

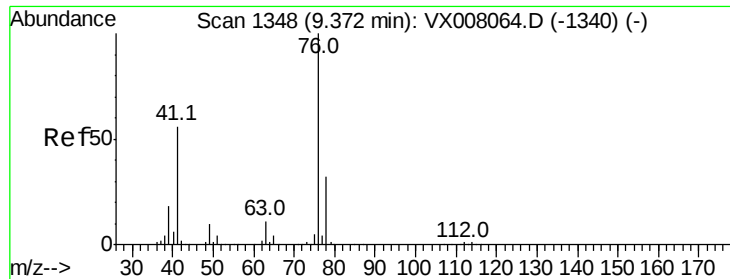
Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Tgt Ion:	69	Resp:	84835
Ion	Ratio	Lower	Upper
69	100		
41	65.2	54.2	81.4
39	30.4	25.0	37.4





#57

1,3-Dichloropropane

Concen: 19.642 ug/l

RT: 9.37 min Scan# 1348

Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

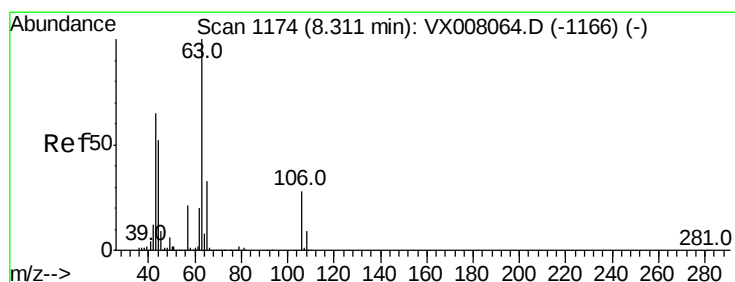
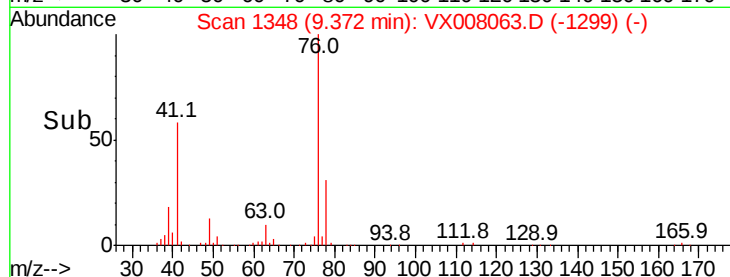
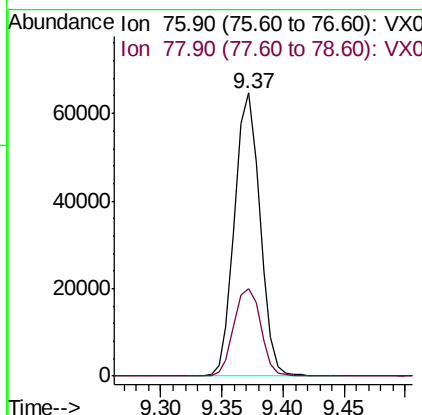
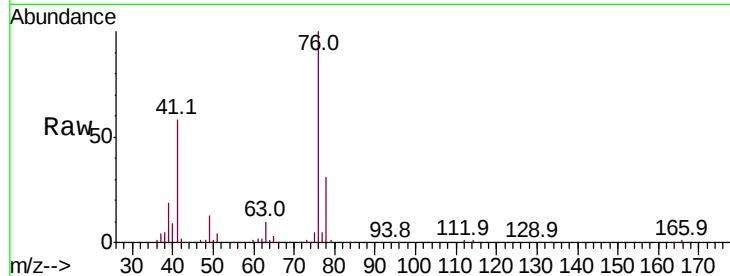
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion: 76 Resp: 93267

Ion	Ratio	Lower	Upper
76	100		
78	32.7	25.5	38.3

Manual Integrations
APPROVED

MMDadoda
3/15/2019 9:06:52 AM



#58

2-Chloroethyl Vinyl ether

Concen: 93.133 ug/l

RT: 8.31 min Scan# 1174

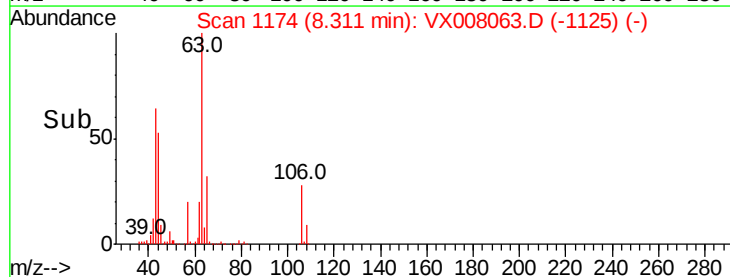
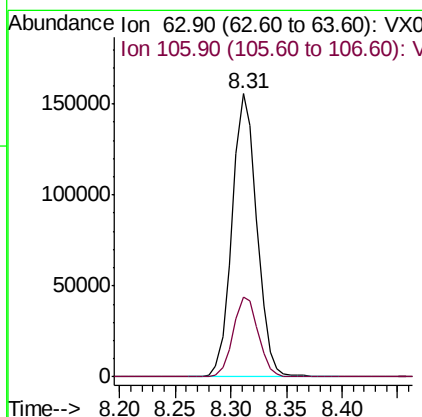
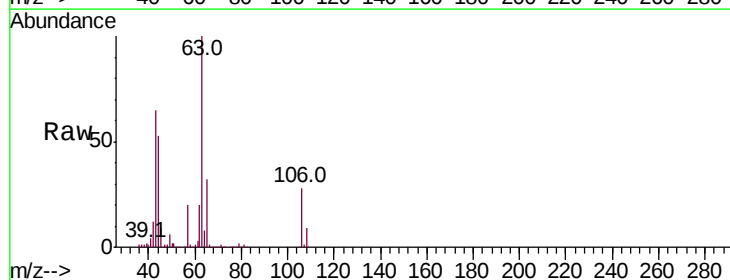
Delta R.T. -0.00 min

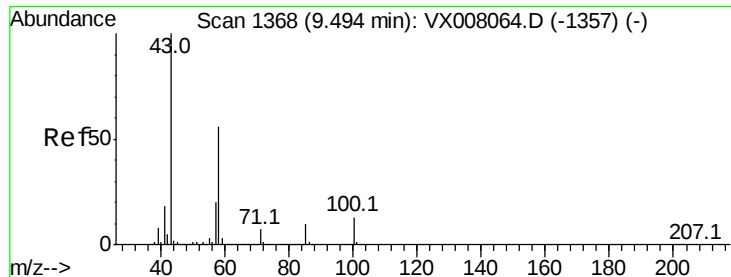
Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Tgt Ion: 63 Resp: 240366

Ion	Ratio	Lower	Upper
63	100		
106	28.5	22.2	33.2





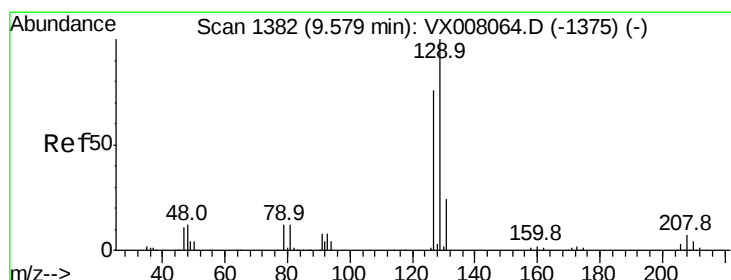
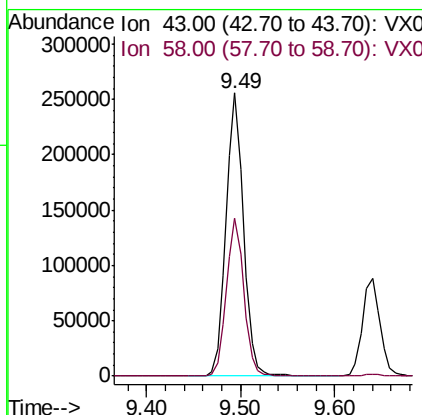
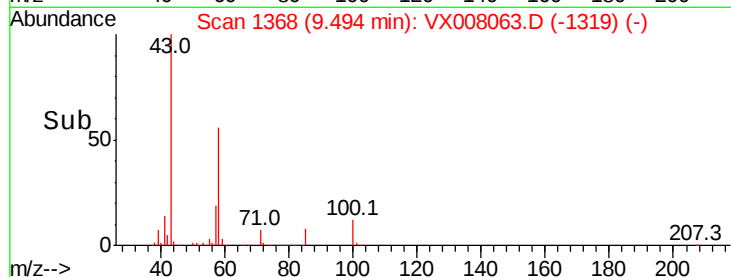
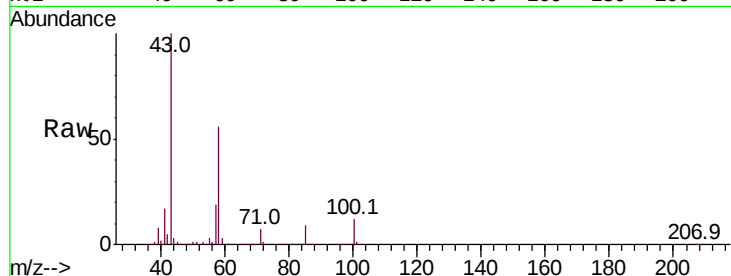
#59
2-Hexanone
Concen: 101.320 ug/l
RT: 9.49 min Scan# 1368
Delta R.T. -0.00 min
Lab File: VX008063.D
Acq: 14 Mar 2019 10:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion: 43 Resp: 330212
Ion Ratio Lower Upper
43 100
58 55.8 27.6 82.7

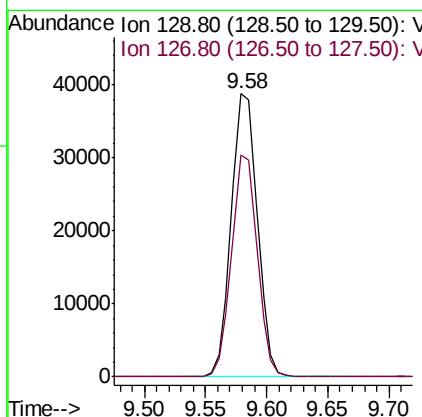
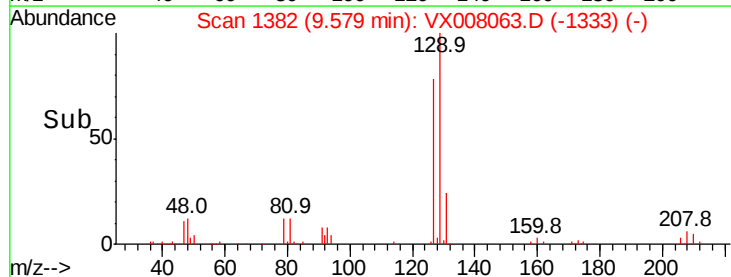
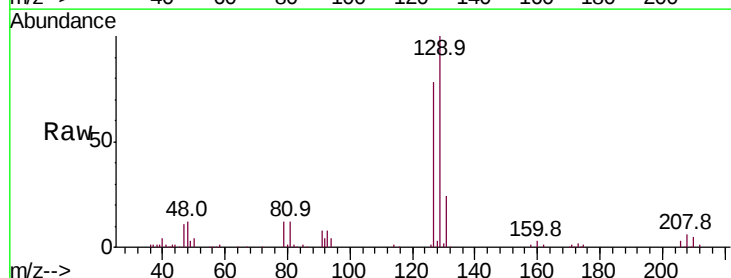
Manual Integrations
APPROVED

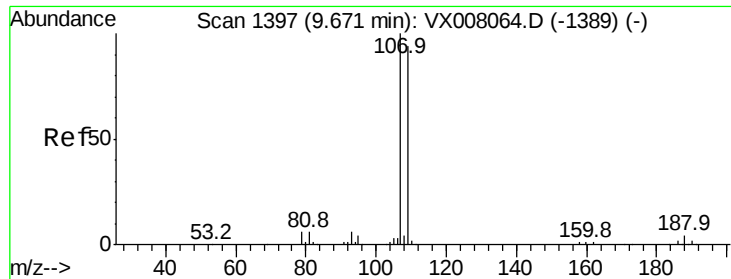
MMDadoda
3/15/2019 9:06:52 AM



#60
Dibromochloromethane
Concen: 18.528 ug/l
RT: 9.58 min Scan# 1382
Delta R.T. -0.00 min
Lab File: VX008063.D
Acq: 14 Mar 2019 10:32

Tgt Ion: 129 Resp: 57298
Ion Ratio Lower Upper
129 100
127 76.8 38.3 114.8





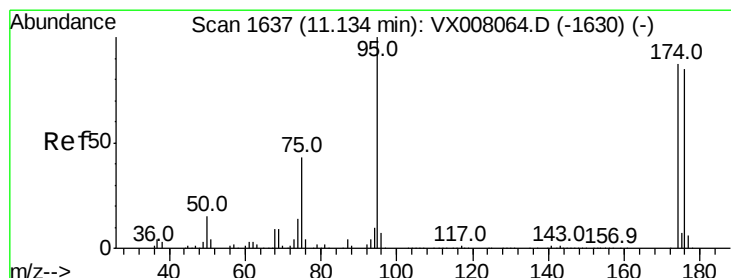
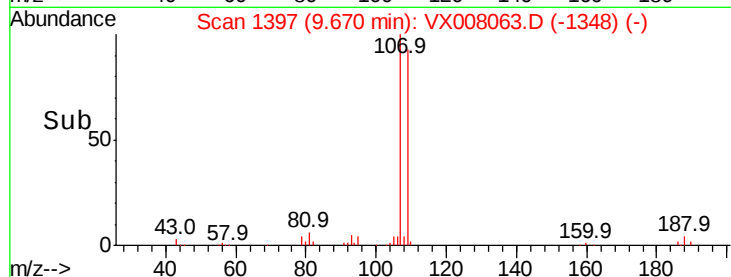
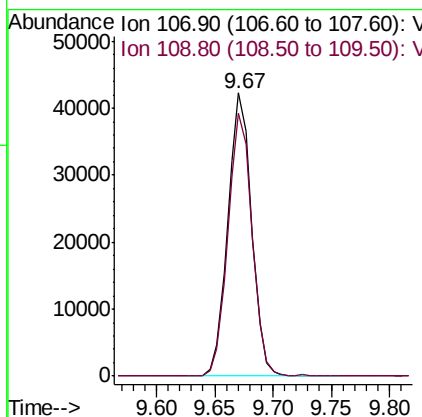
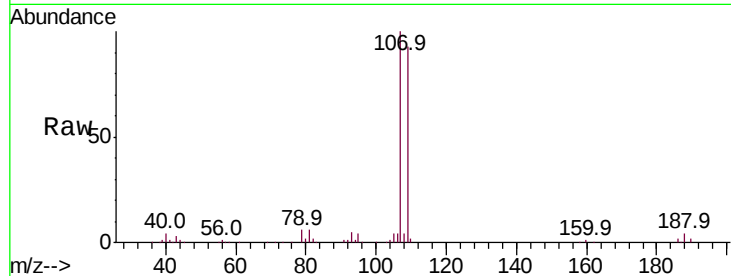
#61
 1,2-Dibromoethane
 Concen: 19.256 ug/l
 RT: 9.67 min Scan# 1397
 Delta R.T. -0.00 min
 Lab File: VX008063.D
 Acq: 14 Mar 2019 10:32

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.3	75.8	113.8

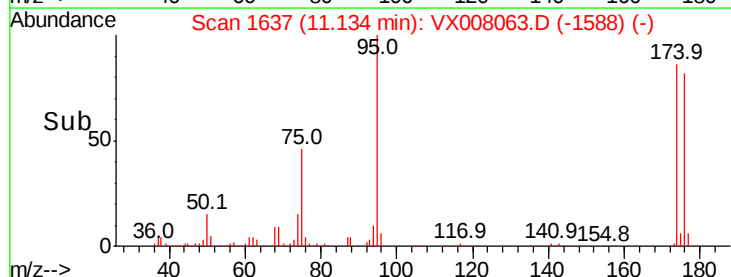
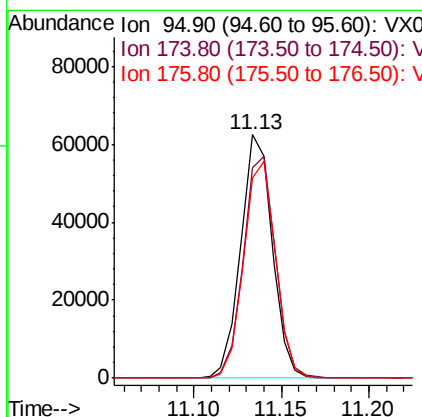
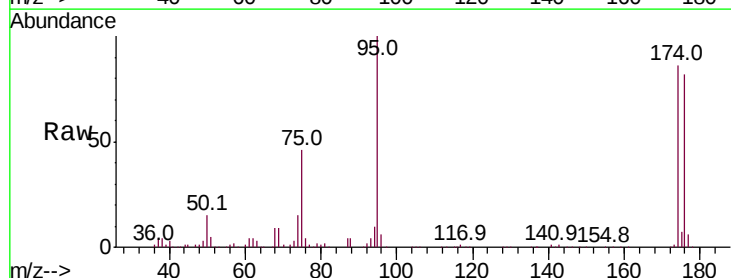
Manual Integrations
 APPROVED

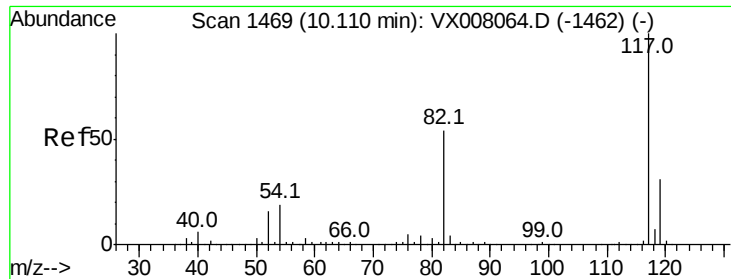
MMDadoda
 3/15/2019 9:06:52 AM



#62
 4-Bromofluorobenzene
 Concen: 20.609 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.00 min
 Lab File: VX008063.D
 Acq: 14 Mar 2019 10:32

Tgt Ion	Ratio	Lower	Upper
95	100		
174	92.5	0.0	182.8
176	90.0	0.0	178.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Instrument :

MSVOA_X

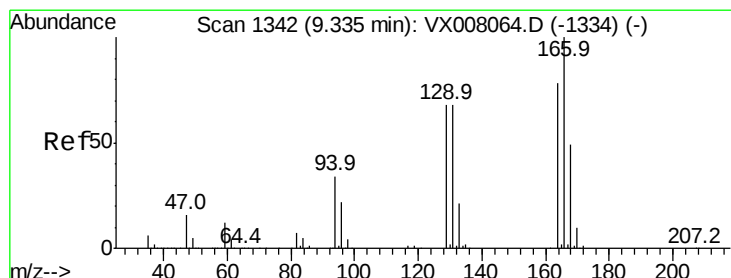
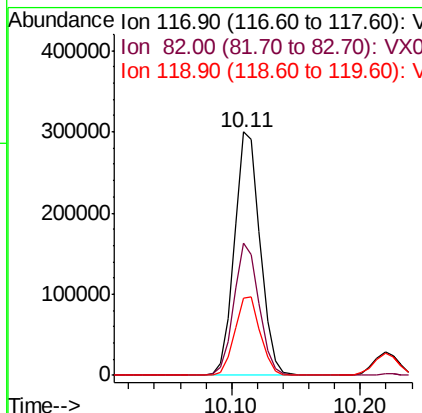
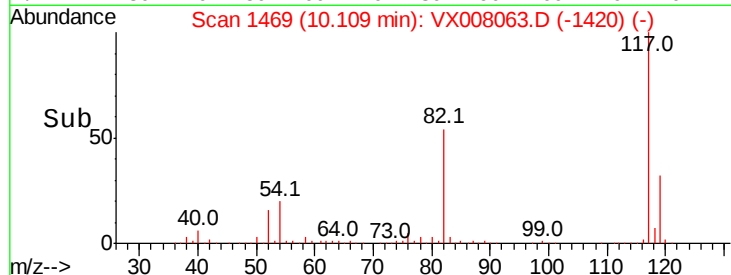
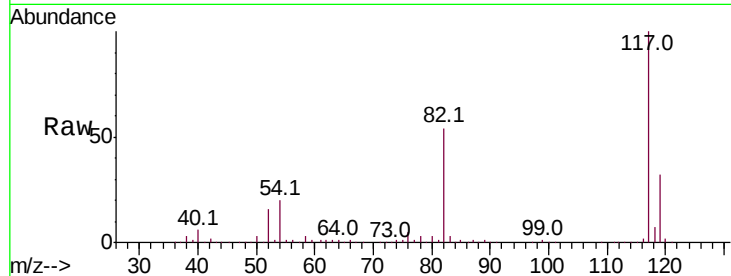
ClientSampleId :

VSTDIC020

Tot Ion:	117	Resp:	415442
Ion Ratio	Lower	Upper	
117	100		
82	54.2	44.3	66.5
119	31.8	25.3	37.9

Manual Integrations
APPROVED

MMDadoda
3/15/2019 9:06:52 AM



#64

Tetrachloroethene

Concen: 19.660 ug/l

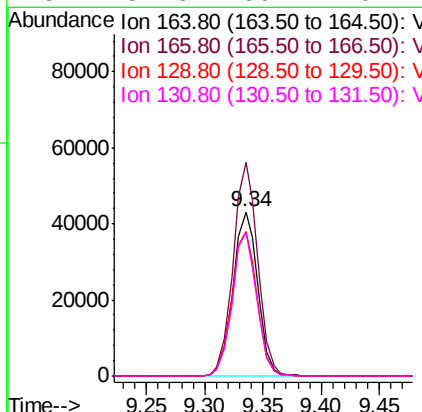
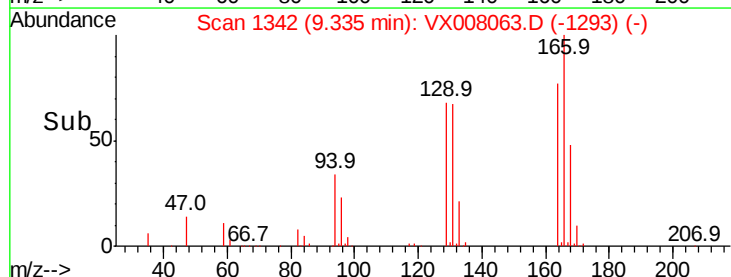
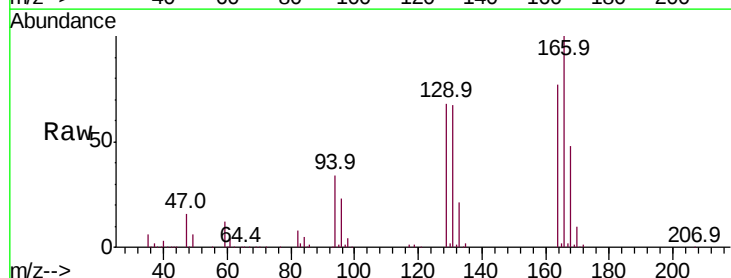
RT: 9.34 min Scan# 1342

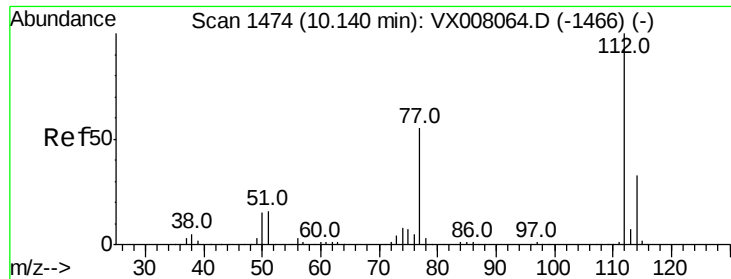
Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Tgt Ion:	164	Resp:	63990
Ion Ratio	Lower	Upper	
164	100		
166	130.2	103.4	155.0
129	87.9	72.2	108.4
131	87.6	69.4	104.2





#65

Chlorobenzene

Concen: 19.300 ug/l

RT: 10.14 min Scan# 1474

Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Instrument :

MSVOA_X

ClientSampled :

VSTDIC020

Tot Ion:112 Resp: 154633

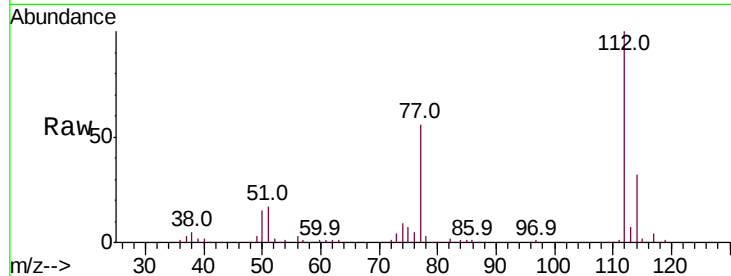
Ion Ratio Lower Upper

112 100

114 31.6 26.0 39.0

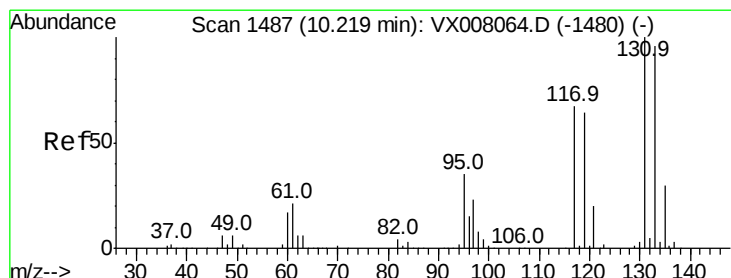
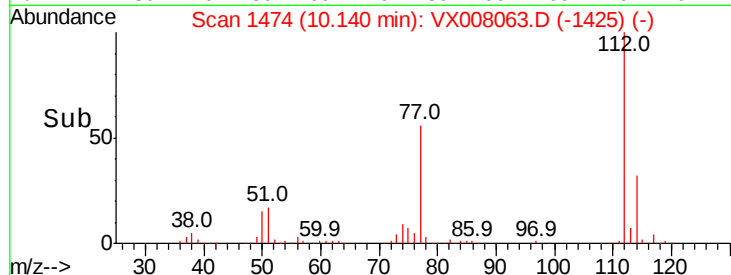
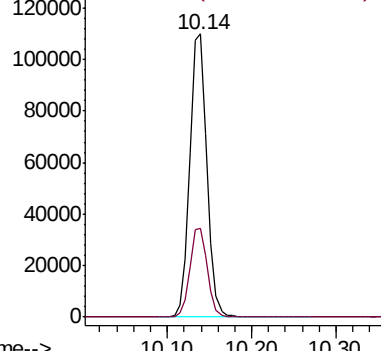
Manual Integrations
APPROVED

MMDadoda
3/15/2019 9:06:52 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 18.494 ug/l

RT: 10.22 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

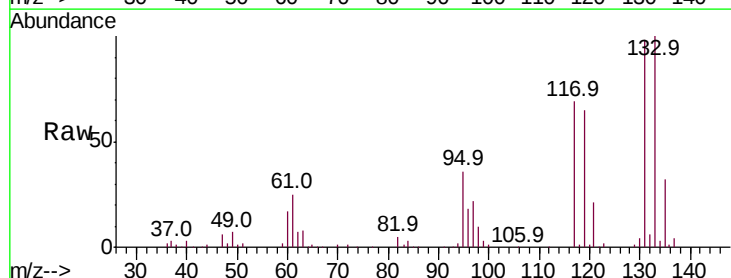
Tgt Ion:131 Resp: 54802

Ion Ratio Lower Upper

131 100

133 98.3 47.8 143.3

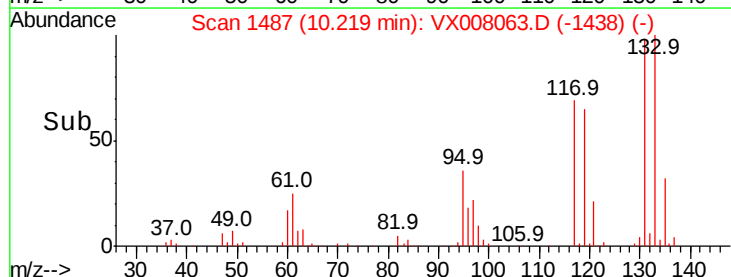
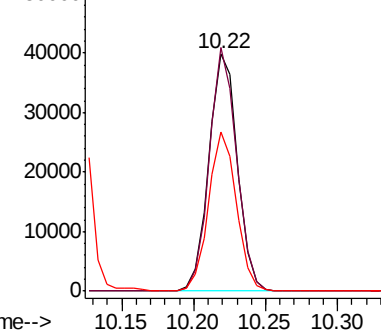
119 66.1 32.5 97.5

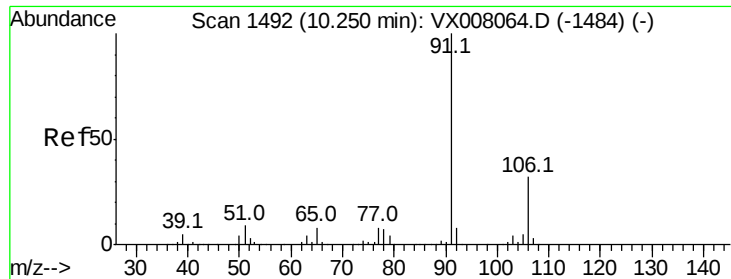


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 19.049 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 258611

Ion Ratio Lower Upper

91 100

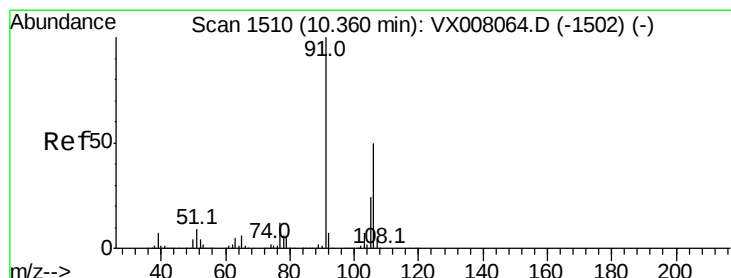
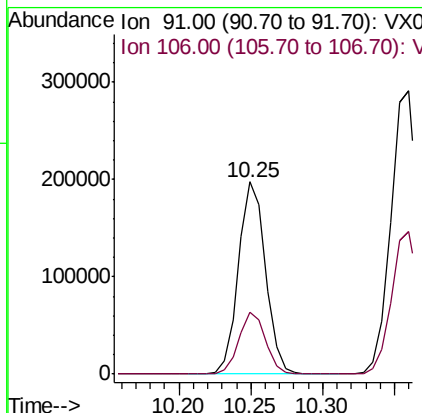
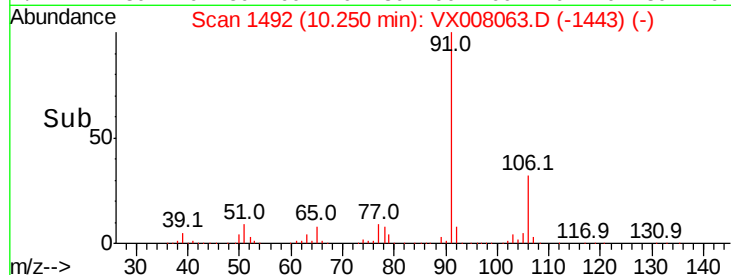
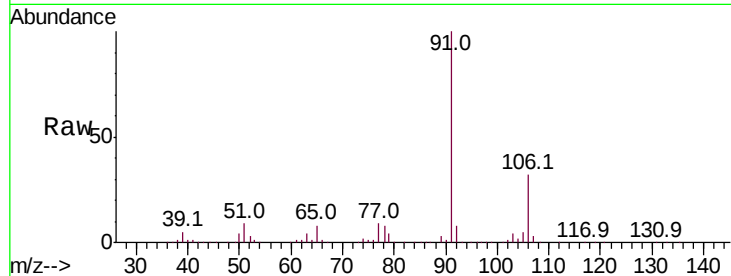
106 32.3 25.2 37.8

Manual Integrations

APPROVED

MMDadoda

3/15/2019 9:06:52 AM



#68

m/p-Xylenes

Concen: 38.326 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VX008063.D

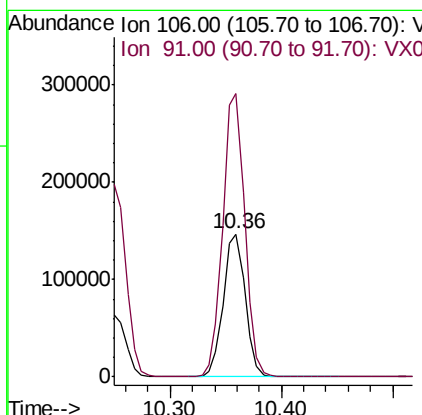
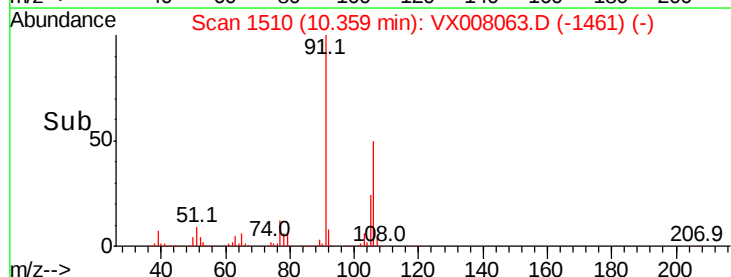
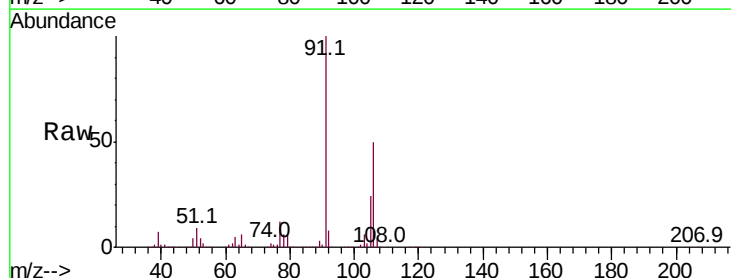
Acq: 14 Mar 2019 10:32

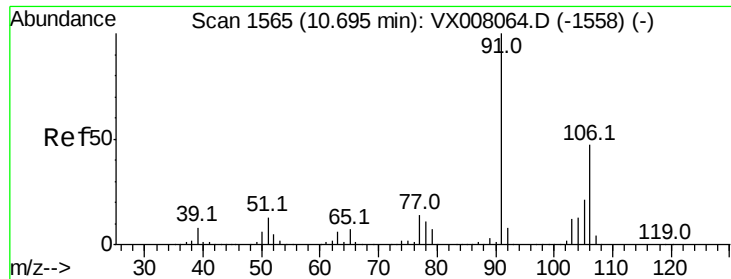
Tgt Ion: 106 Resp: 200457

Ion Ratio Lower Upper

106 100

91 198.7 159.8 239.6





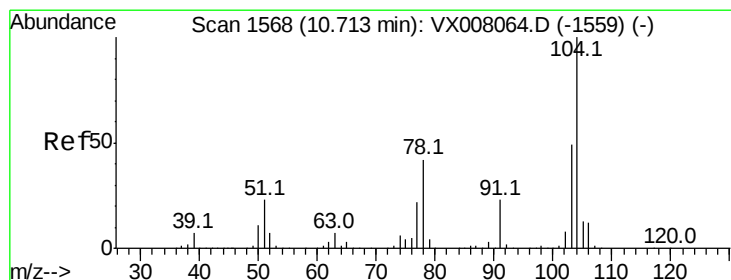
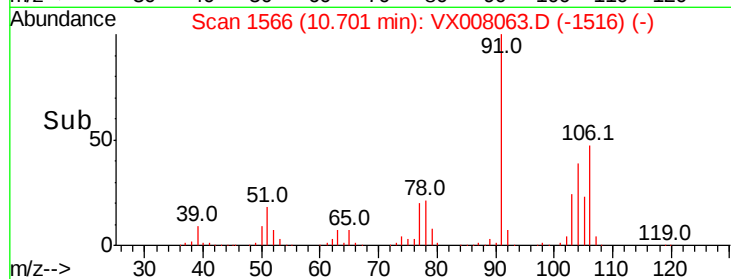
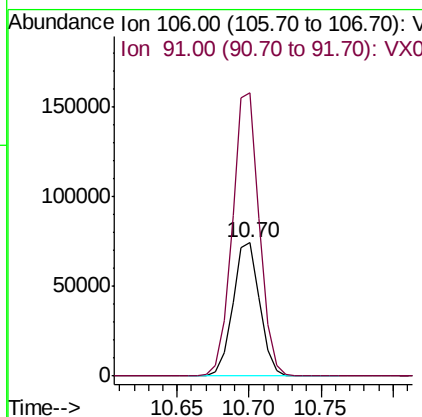
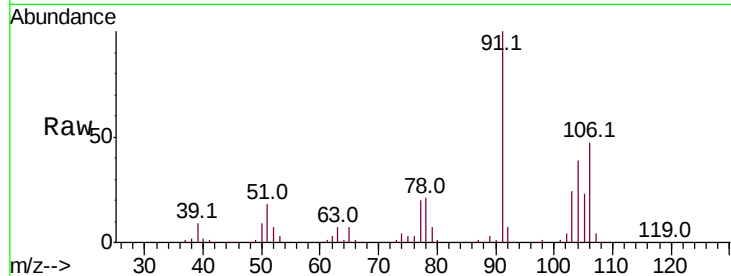
#69
o-Xylene
Concen: 19.029 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. 0.01 min
Lab File: VX008063.D
Acq: 14 Mar 2019 10:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion:106 Resp: 96704
Ion Ratio Lower Upper
106 100
91 214.4 106.3 318.9

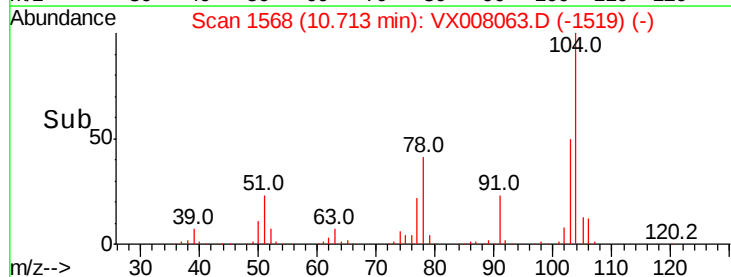
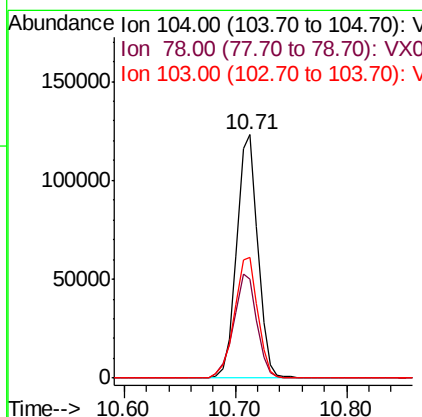
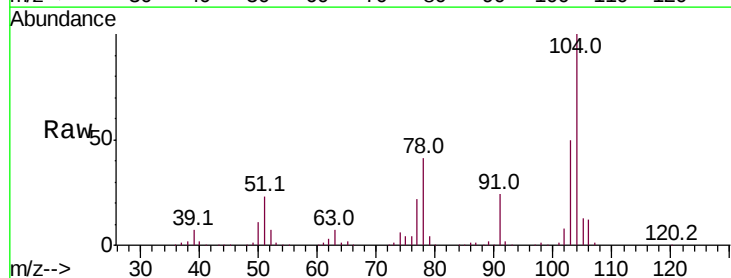
Manual Integrations
APPROVED

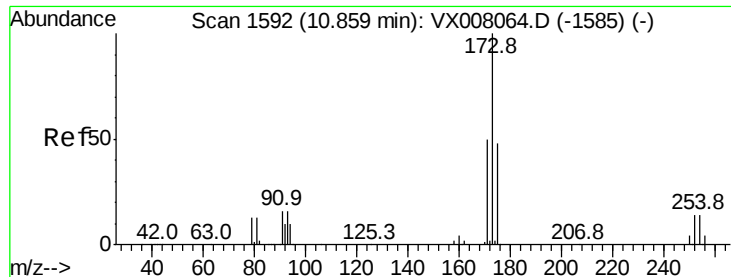
MMDadoda
3/15/2019 9:06:52 AM



#70
Styrene
Concen: 19.191 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VX008063.D
Acq: 14 Mar 2019 10:32

Tgt Ion:104 Resp: 161431
Ion Ratio Lower Upper
104 100
78 47.2 38.5 57.7
103 54.9 44.1 66.1





#71

Bromoform

Concen: 18.134 ug/l

RT: 10.85 min Scan# 1591

Delta R.T. -0.01 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion:173 Resp: 45334

Ion Ratio Lower Upper

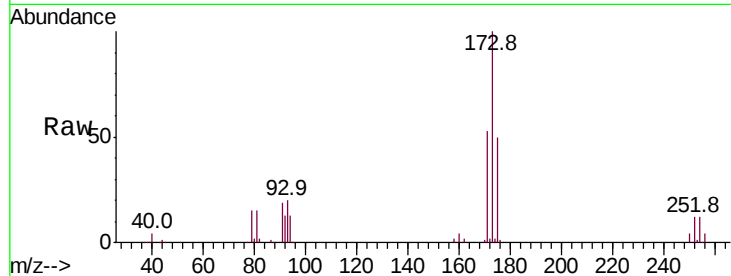
173 100

175 49.6 24.3 72.9

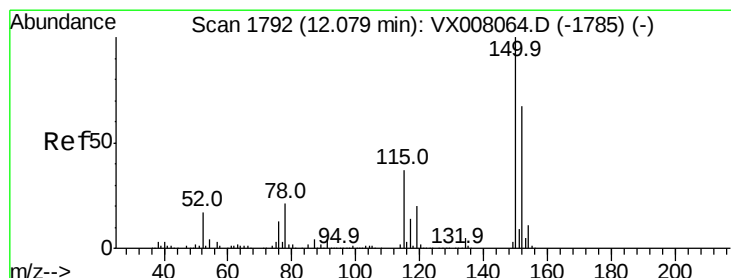
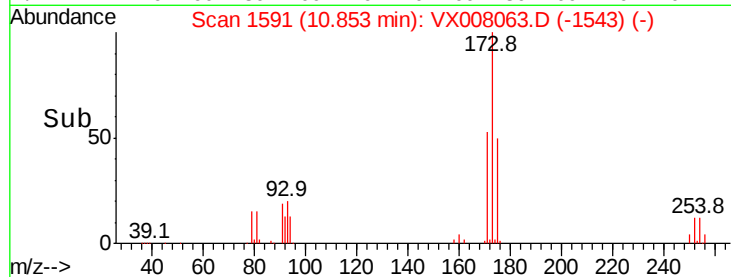
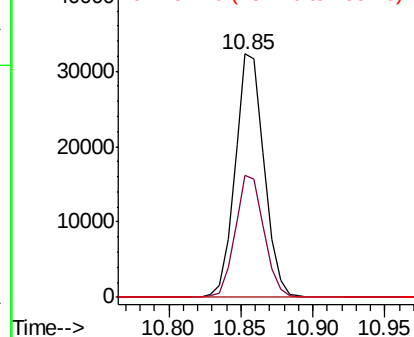
254 0.2 0.1 0.1#

Manual Integrations
APPROVED

MMDadoda
3/15/2019 9:06:52 AM



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

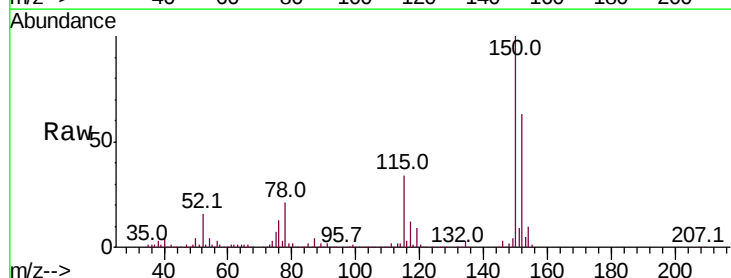
Tgt Ion:152 Resp: 209844

Ion Ratio Lower Upper

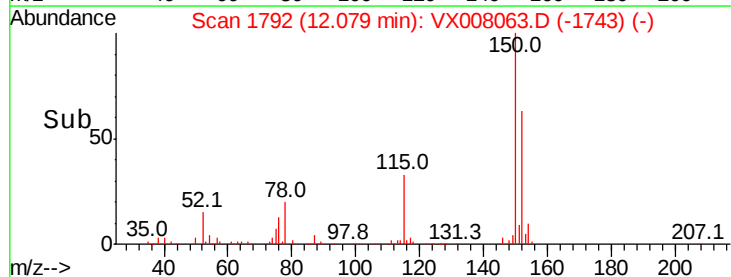
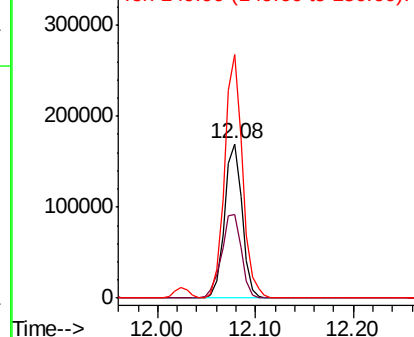
152 100

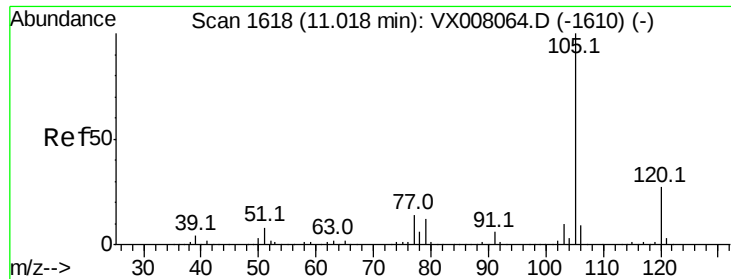
115 62.0 38.6 115.7

150 161.1 0.0 348.4



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





#73

Isopropylbenzene

Concen: 19.457 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 260709

Ion Ratio Lower Upper

105 100

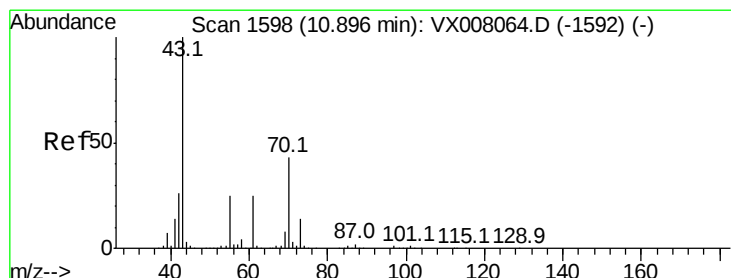
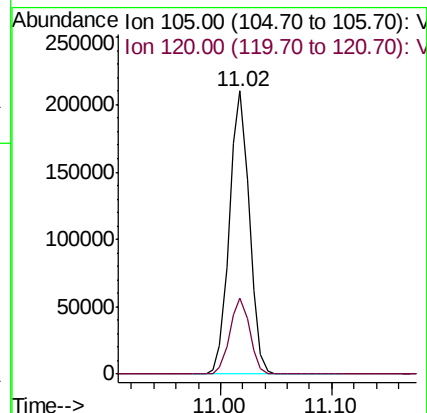
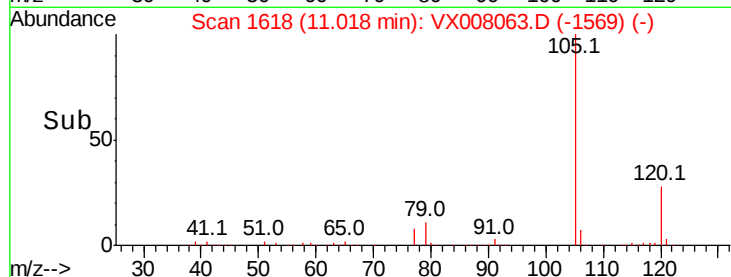
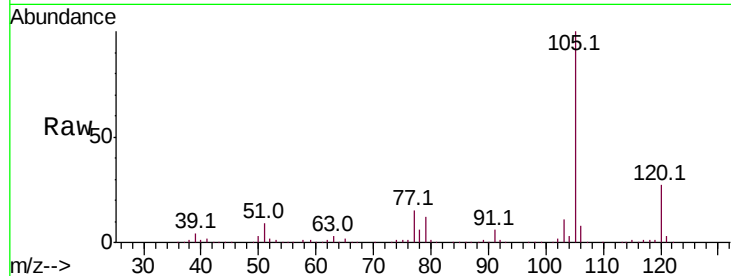
120 26.7 13.4 40.1

Manual Integrations

APPROVED

MMDadoda

3/15/2019 9:06:52 AM



#74

N-ethyl acetate

Concen: 19.672 ug/l

RT: 10.90 min Scan# 1598

Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Tgt Ion: 43 Resp: 110278

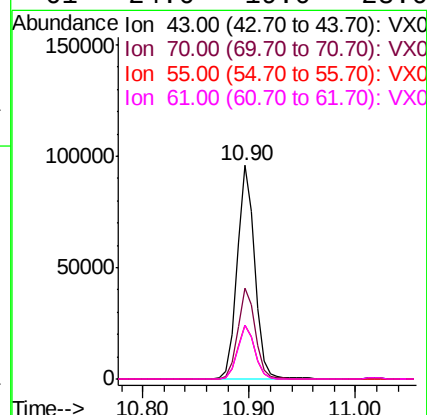
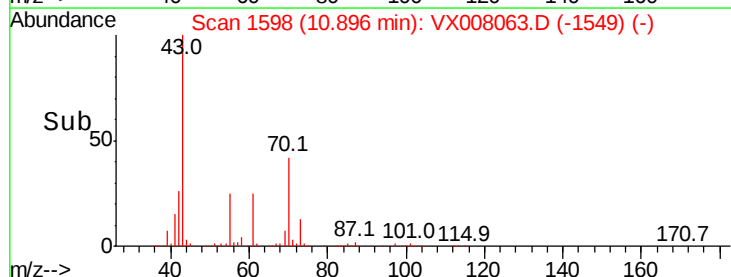
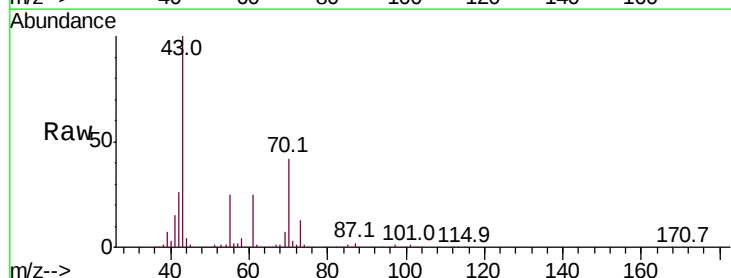
Ion Ratio Lower Upper

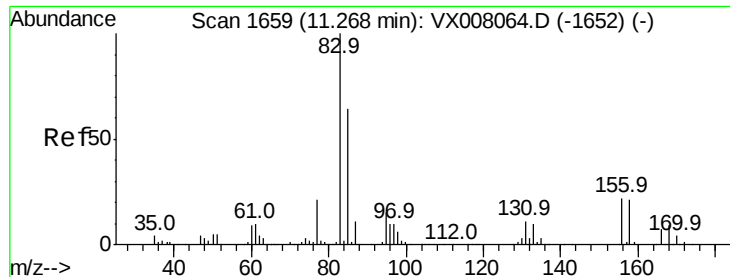
43 100

70 42.5 33.5 50.3

55 25.1 19.2 28.8

61 24.6 19.0 28.6





#75

1,1,2,2-Tetrachloroethane

Concen: 20.535 ug/l

RT: 11.27 min Scan# 1659

Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion: 83 Resp: 85779

Ion Ratio Lower Upper

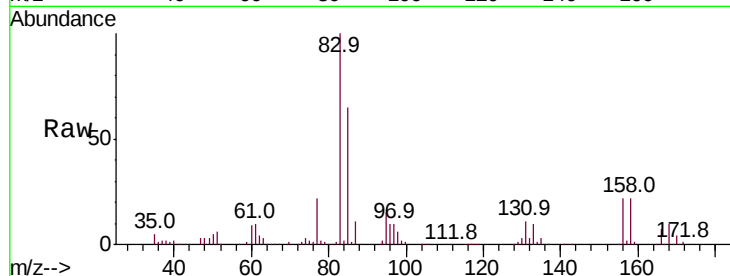
83 100

131 10.7 5.4 16.2

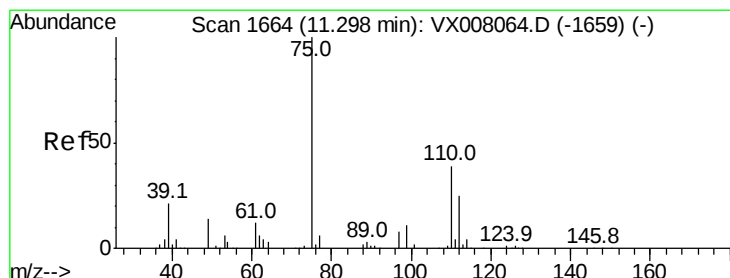
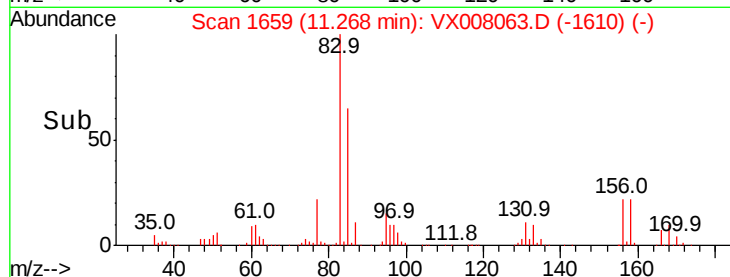
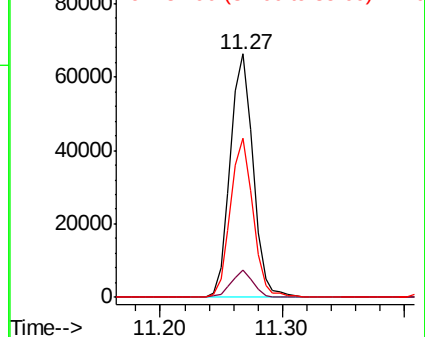
85 64.5 32.3 96.8

Manual Integrations
APPROVED

MMDadoda
3/15/2019 9:06:52 AM



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



#76

1,2,3-Trichloropropane

Concen: 20.243 ug/l m

RT: 11.29 min Scan# 1663

Delta R.T. -0.01 min

Lab File: VX008063.D

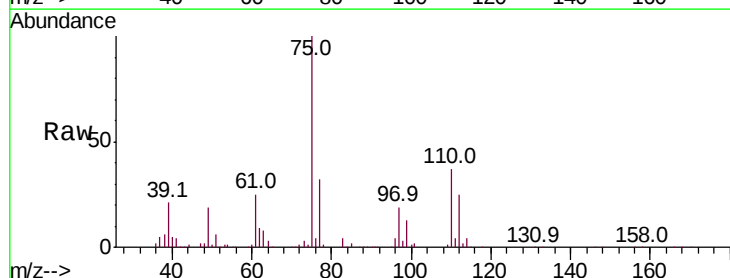
Acq: 14 Mar 2019 10:32

Tgt Ion: 75 Resp: 71463

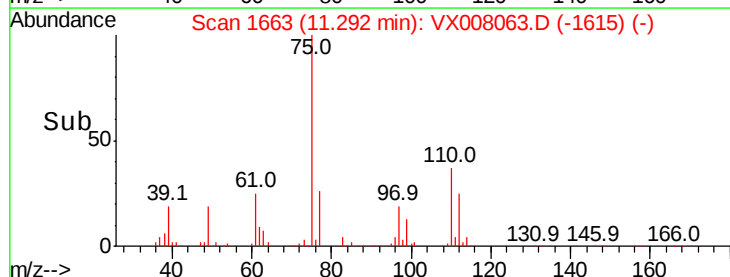
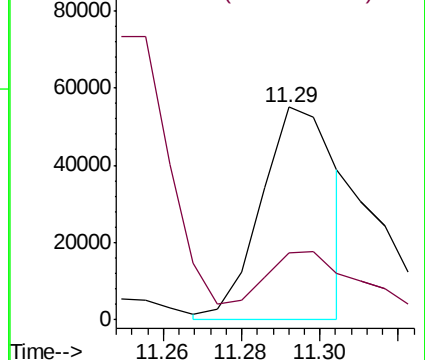
Ion Ratio Lower Upper

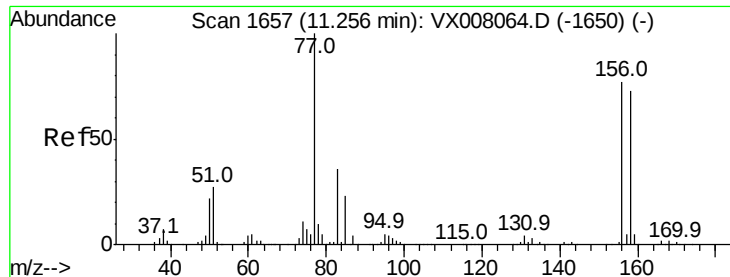
75 100

77 44.5 18.9 56.7



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





#77

Bromobenzene

Concen: 19.753 ug/l

RT: 11.26 min Scan# 1657

Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion:156 Resp: 70772

Ion Ratio Lower Upper

156 100

77 139.3

158 98.2

72.0 215.9

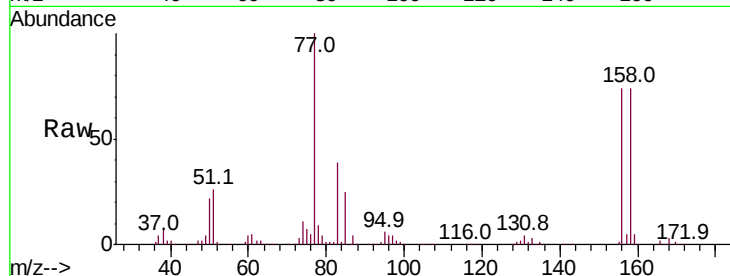
48.6 145.9

Manual Integrations

APPROVED

MMDadoda

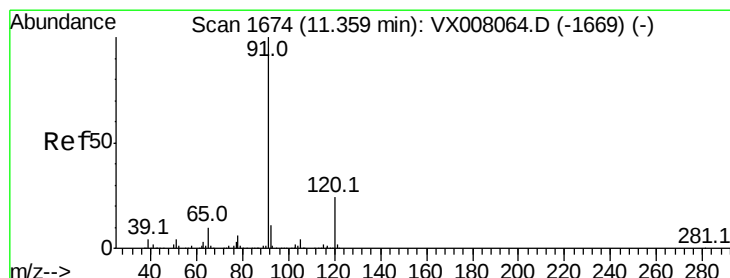
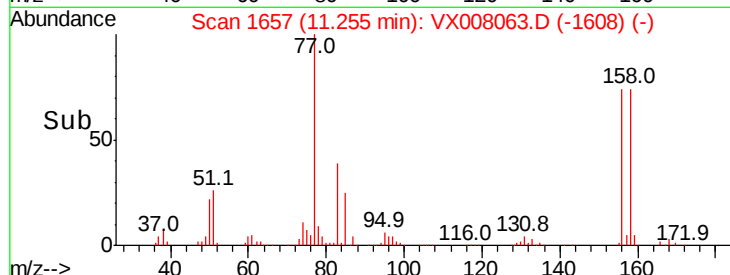
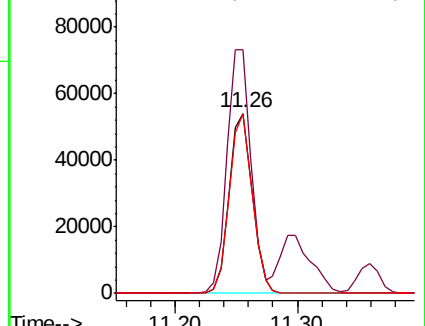
3/15/2019 9:06:52 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VX0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 19.226 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VX008063.D

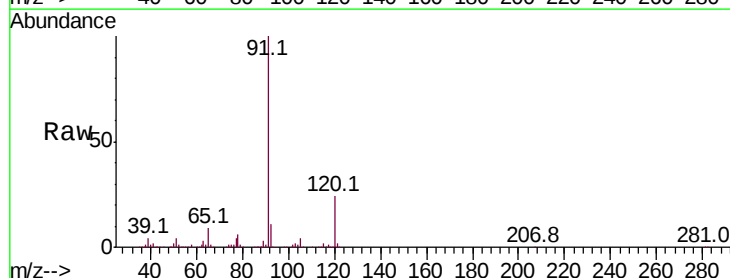
Acq: 14 Mar 2019 10:32

Tgt Ion: 91 Resp: 288010

Ion Ratio Lower Upper

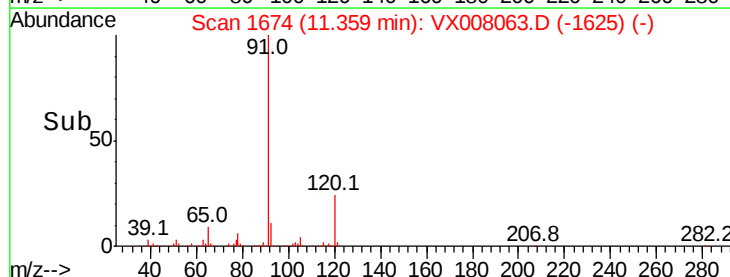
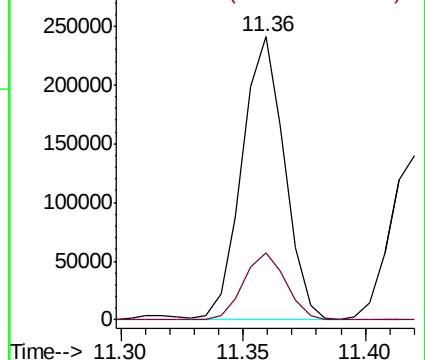
91 100

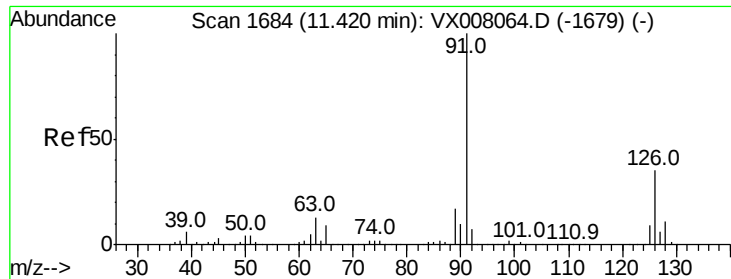
120 23.9 12.0 36.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





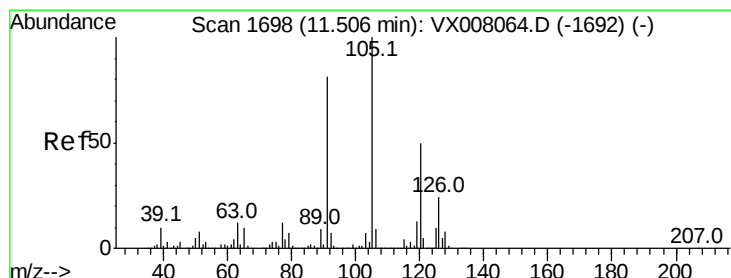
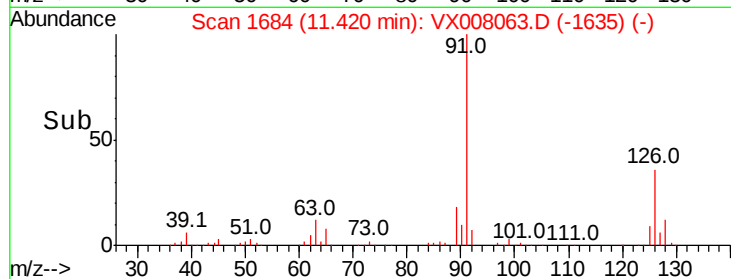
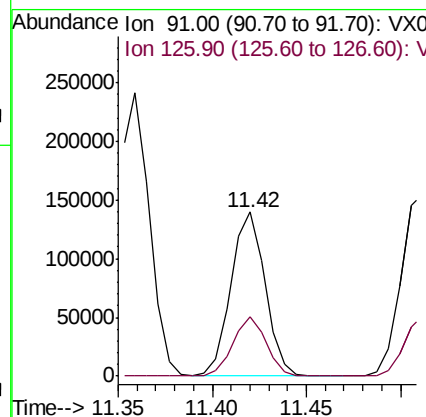
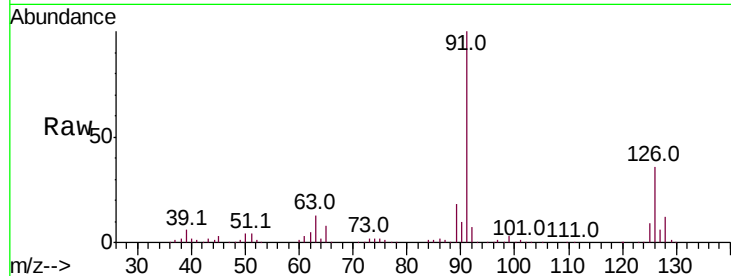
#79
2-Chlorotoluene
Concen: 19.726 ug/l
RT: 11.42 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VX008063.D
Acq: 14 Mar 2019 10:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion: 91 Resp: 174476
Ion Ratio Lower Upper
91 100
126 35.5 17.5 52.6

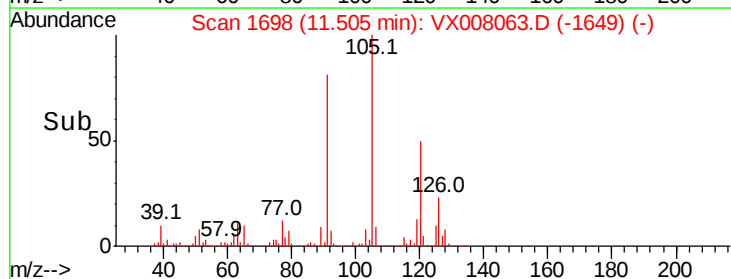
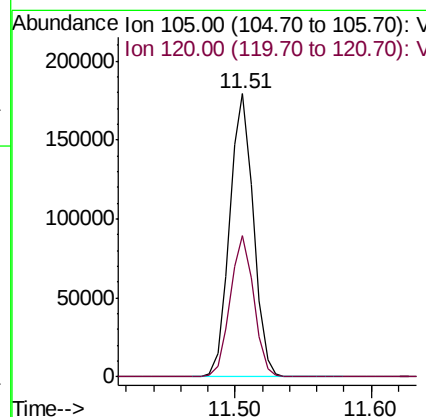
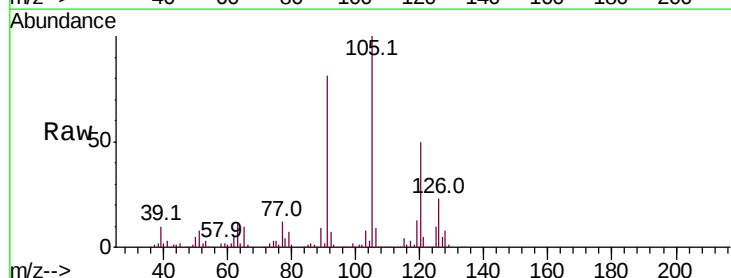
Manual Integrations
APPROVED

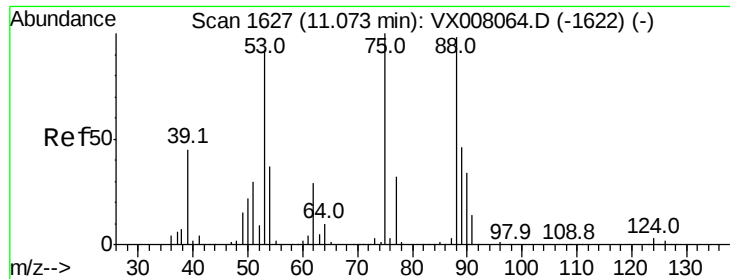
MMDadoda
3/15/2019 9:06:52 AM



#80
1,3,5-Trimethylbenzene
Concen: 19.383 ug/l
RT: 11.51 min Scan# 1698
Delta R.T. -0.00 min
Lab File: VX008063.D
Acq: 14 Mar 2019 10:32

Tgt Ion: 105 Resp: 215652
Ion Ratio Lower Upper
105 100
120 49.8 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 17.728 ug/l

RT: 11.07 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion: 75 Resp: 23579

Ion Ratio Lower Upper

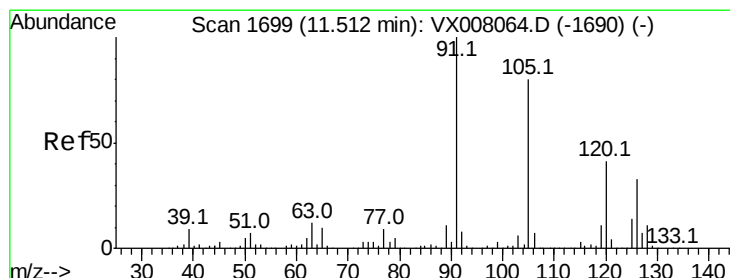
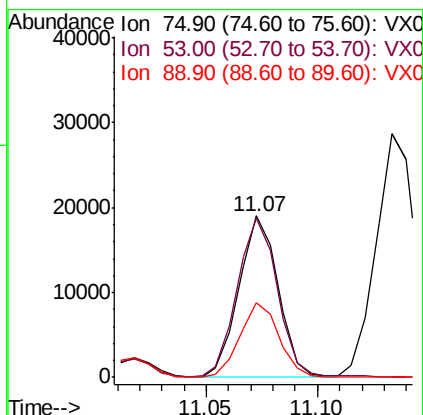
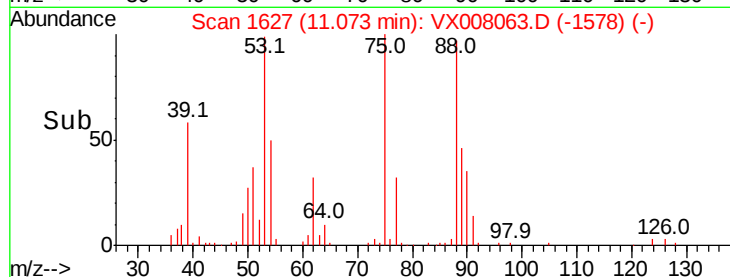
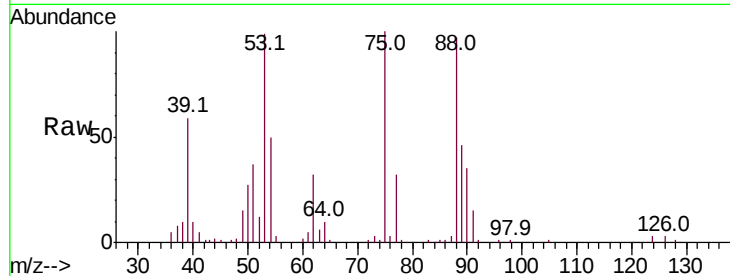
75 100

53 100.6 76.1 114.1

89 45.9 36.3 54.5

Manual Integrations
APPROVED

MMDadoda
3/15/2019 9:06:52 AM



#82

4-Chlorotoluene

Concen: 19.522 ug/l

RT: 11.51 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VX008063.D

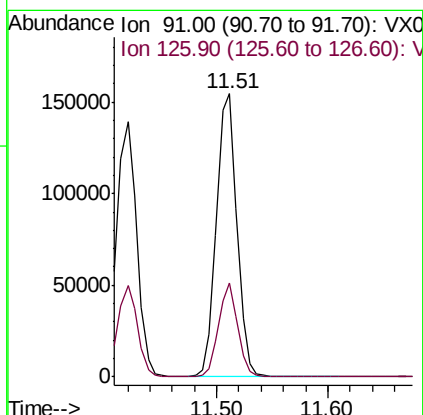
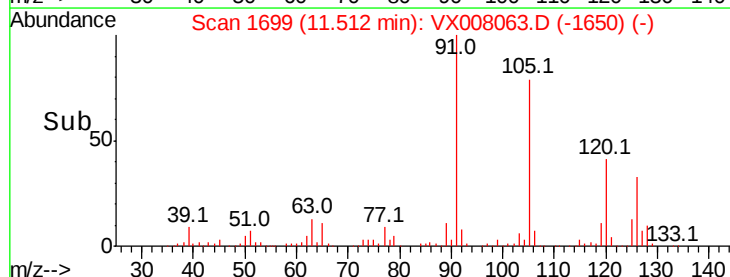
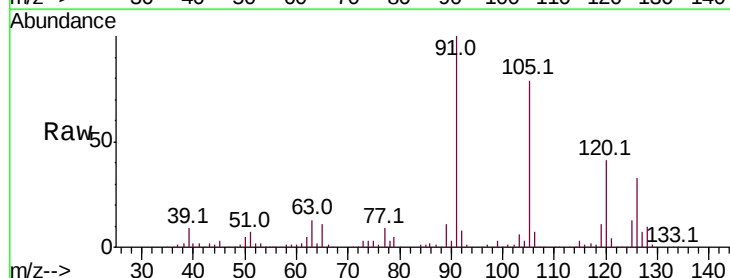
Acq: 14 Mar 2019 10:32

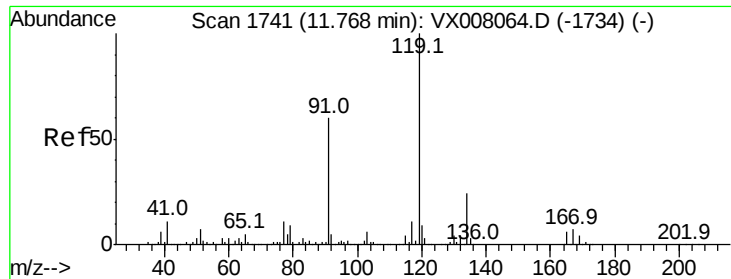
Tgt Ion: 91 Resp: 196874

Ion Ratio Lower Upper

91 100

126 31.0 15.6 46.8





#83

tert-Butylbenzene

Concen: 19.357 ug/l

RT: 11.77 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Instrument :

MSVOA_X

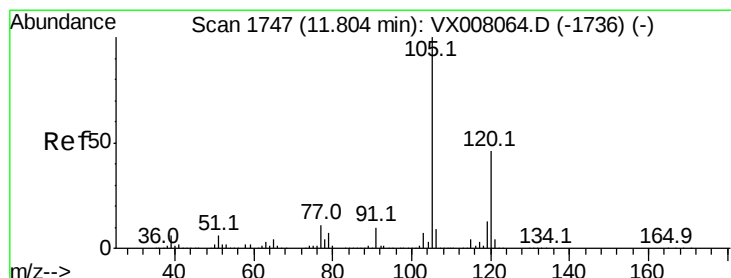
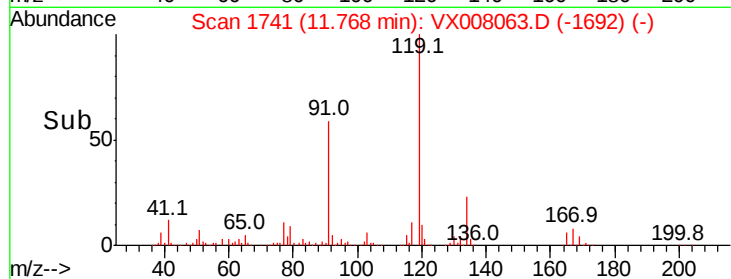
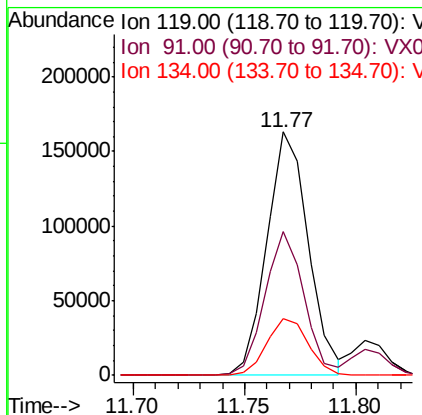
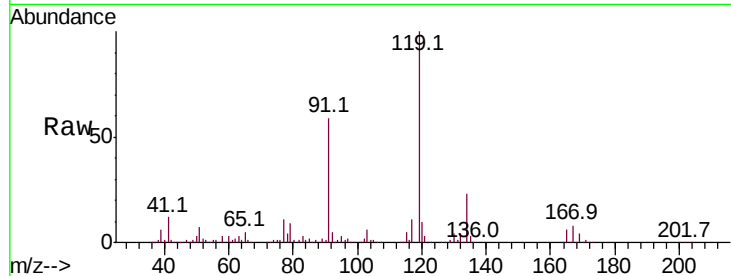
ClientSampleId :

VSTDIC020

Tot Ion:	119	Resp:	211084
Ion Ratio	Lower	Upper	
119	100		
91	55.7	27.1	81.3
134	23.4	11.4	34.1

Manual Integrations
APPROVED

MMDadoda
3/15/2019 9:06:52 AM



#84

1,2,4-Trimethylbenzene

Concen: 19.501 ug/l

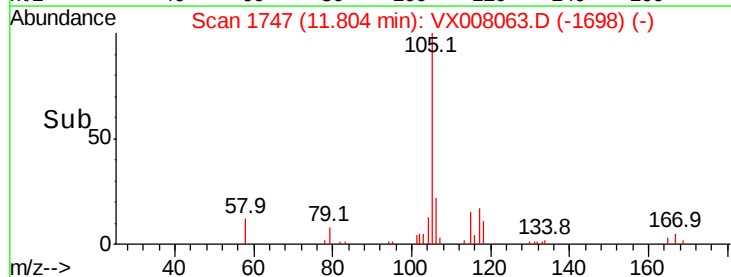
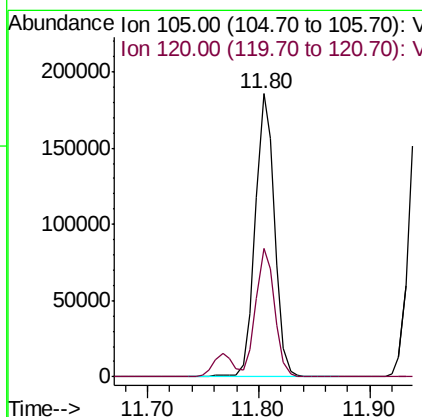
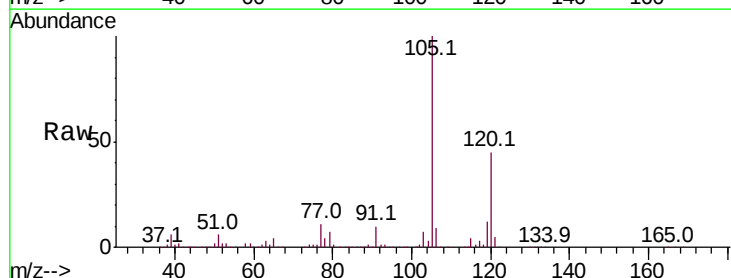
RT: 11.80 min Scan# 1747

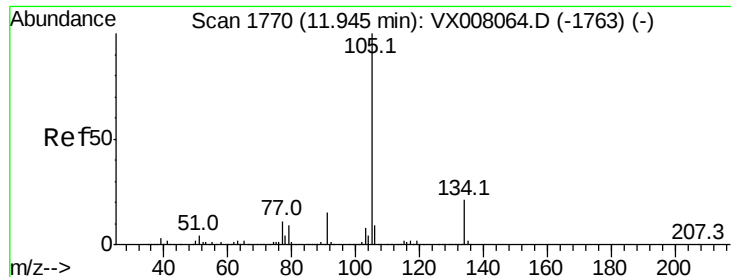
Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Tgt Ion:	105	Resp:	223087
Ion Ratio	Lower	Upper	
105	100		
120	44.2	22.6	67.7





#85

sec-Butylbenzene

Concen: 19.192 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 255883

Ion Ratio Lower Upper

105 100

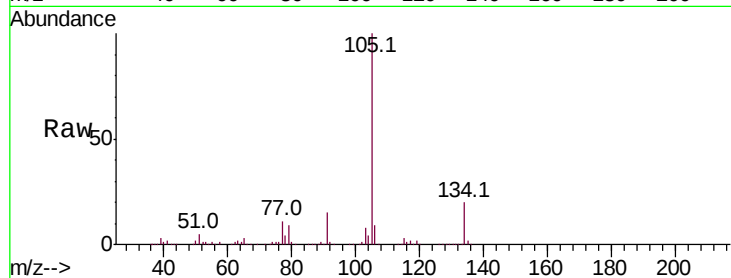
134 19.9 10.4 31.2

Manual Integrations

APPROVED

MMDadoda

3/15/2019 9:06:52 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

250000

200000

150000

100000

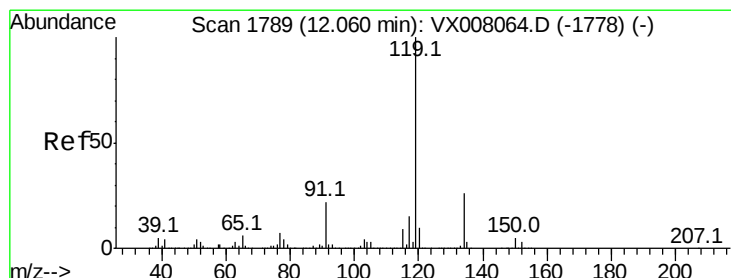
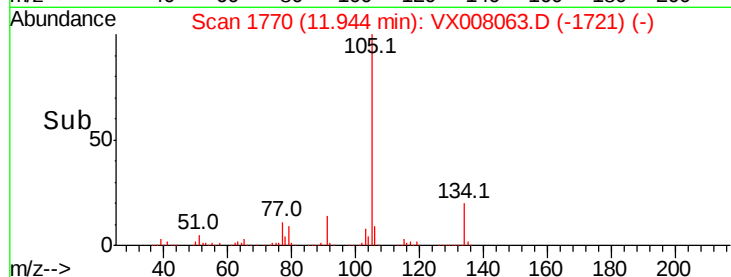
50000

0

11.90

12.00

Time-->



#86

p-Isopropyltoluene

Concen: 18.974 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VX008063.D

Acq: 14 Mar 2019 10:32

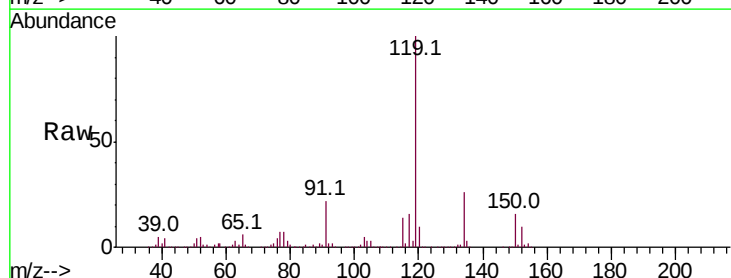
Tgt Ion:119 Resp: 229408

Ion Ratio Lower Upper

119 100

134 26.5 13.3 39.9

91 22.0 10.9 32.7



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VX0

250000

200000

150000

100000

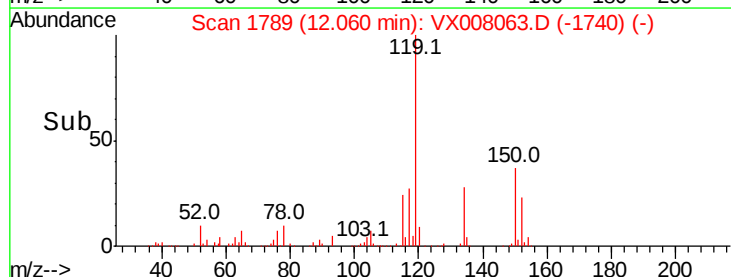
50000

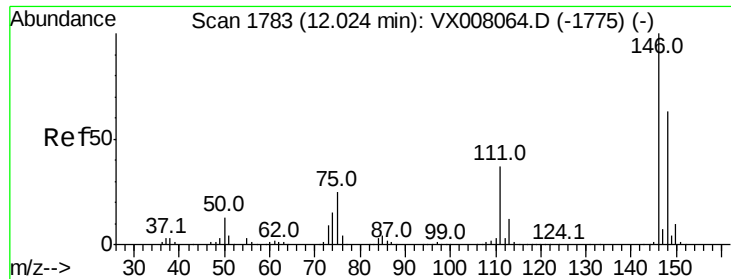
0

12.00

12.10

Time-->





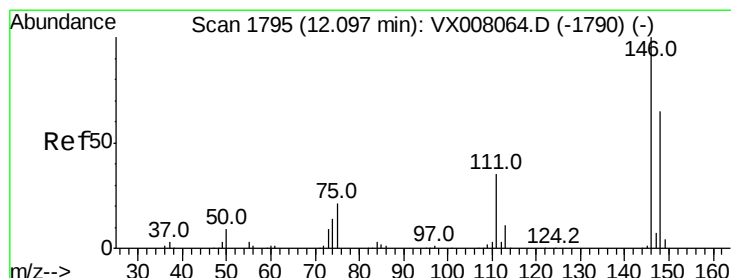
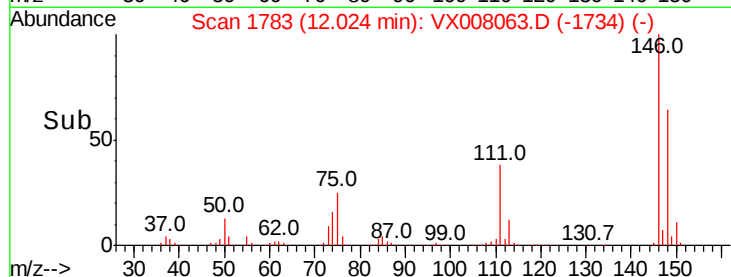
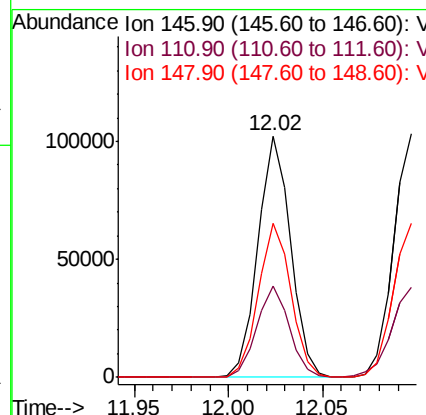
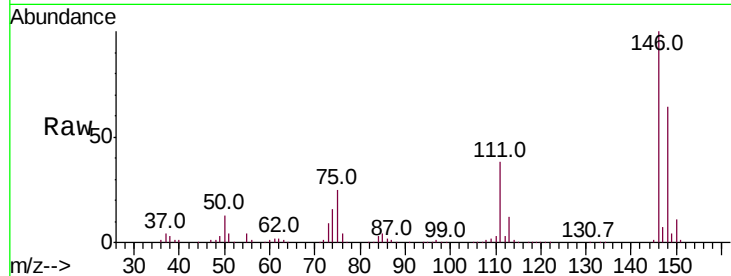
#87
 1,3-Dichlorobenzene
 Concen: 19.344 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. -0.00 min
 Lab File: VX008063.D
 Acq: 14 Mar 2019 10:32

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.5	18.9	56.7
148	63.8	31.7	95.1

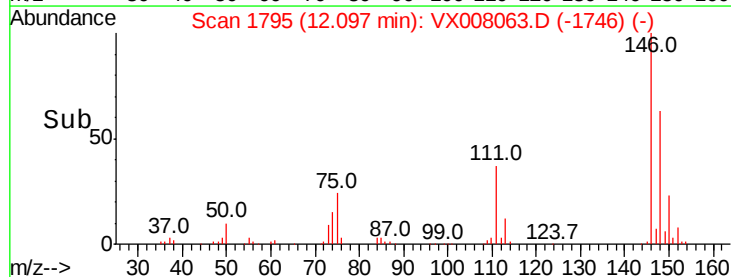
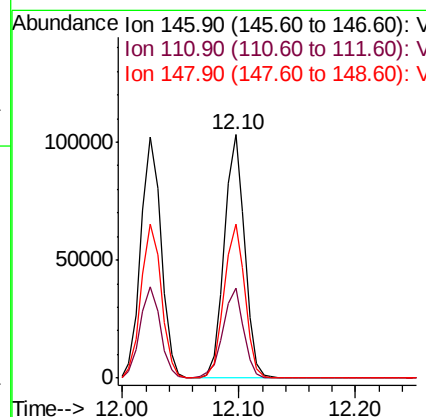
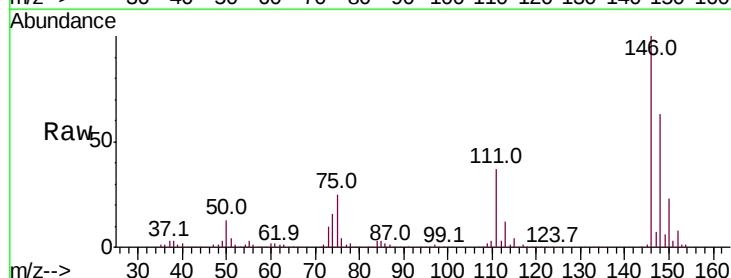
Manual Integrations
 APPROVED

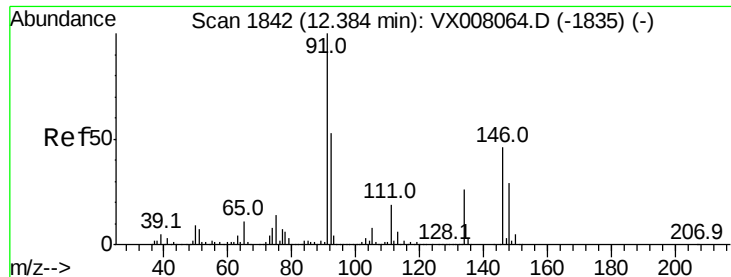
MMDadoda
 3/15/2019 9:06:52 AM



#88
 1,4-Dichlorobenzene
 Concen: 19.493 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. -0.00 min
 Lab File: VX008063.D
 Acq: 14 Mar 2019 10:32

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.8	18.4	55.0
148	65.0	32.2	96.6





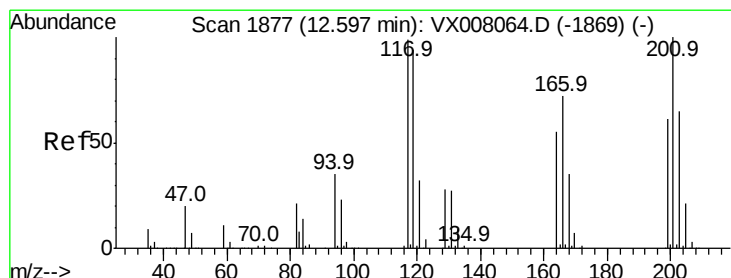
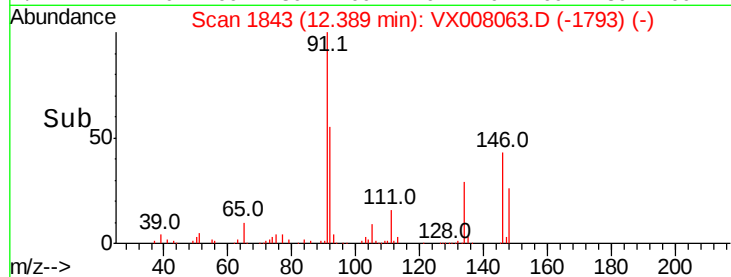
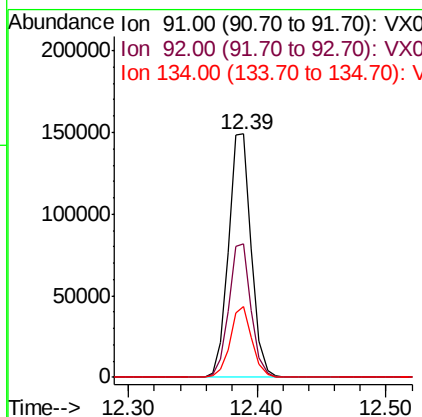
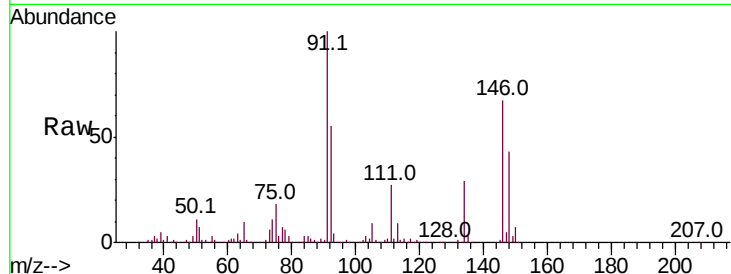
#89
n-Butylbenzene
Concen: 18.349 ug/l
RT: 12.39 min Scan# 1843
Delta R.T. 0.01 min
Lab File: VX008063.D
Acq: 14 Mar 2019 10:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
91	100	185058		
92	53.7	27.0	80.8	
134	27.7	13.7	41.0	

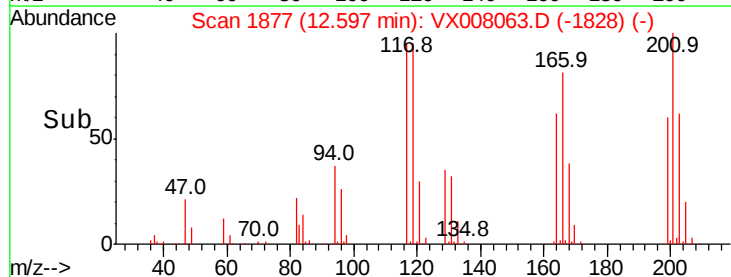
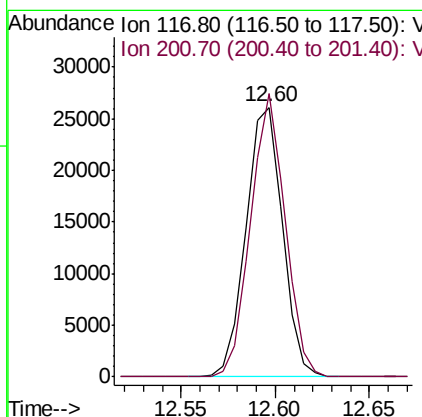
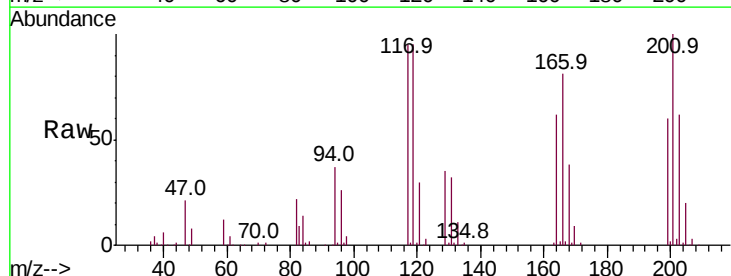
Manual Integrations
APPROVED

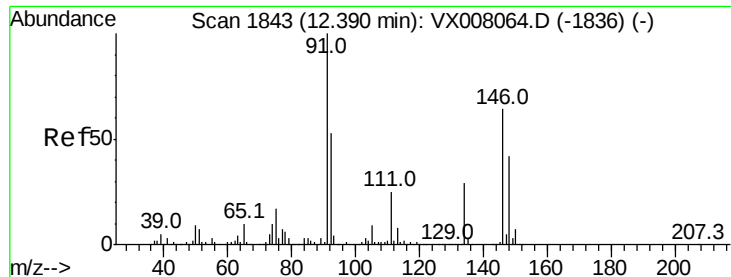
MMDadoda
3/15/2019 9:06:52 AM



#90
Hexachloroethane
Concen: 18.040 ug/l
RT: 12.60 min Scan# 1877
Delta R.T. -0.00 min
Lab File: VX008063.D
Acq: 14 Mar 2019 10:32

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	35044		
201	99.2	48.9	146.7	





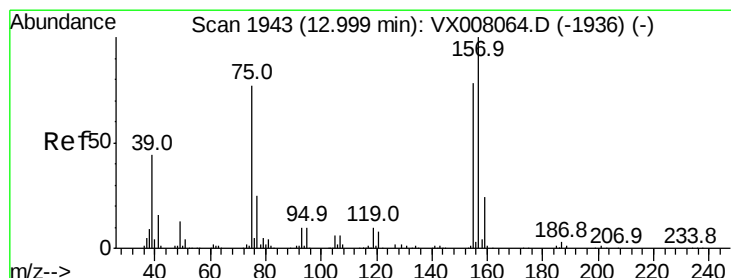
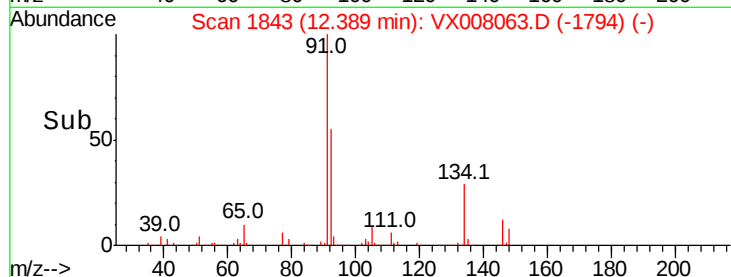
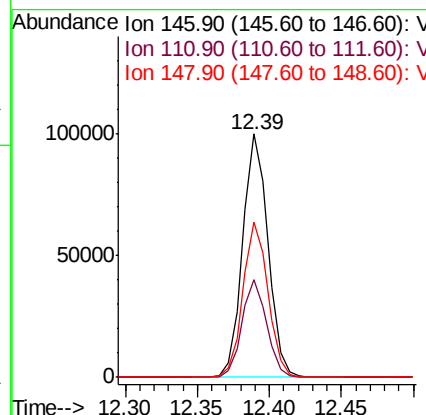
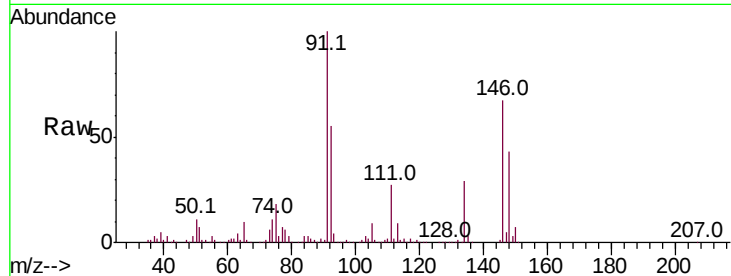
#91
 1,2-Dichlorobenzene
 Concen: 19.634 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. -0.00 min
 Lab File: VX008063.D
 Acq: 14 Mar 2019 10:32

Instrument :
 MSVOA_X
 ClientSampled :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.6	58.8
148	63.2	31.9	95.5

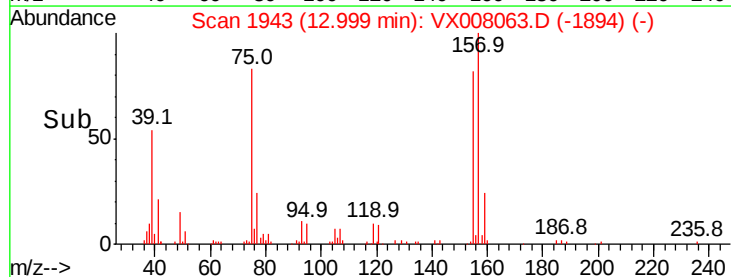
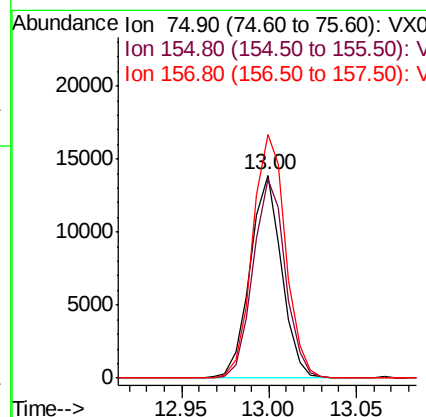
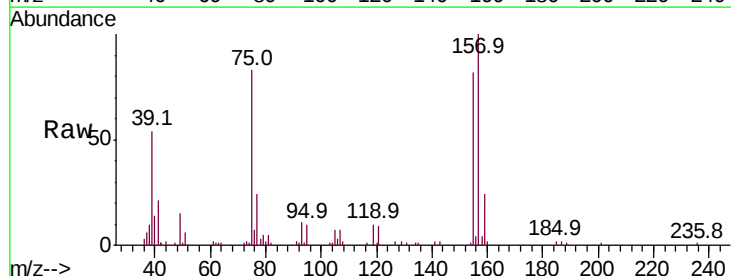
Manual Integrations
 APPROVED

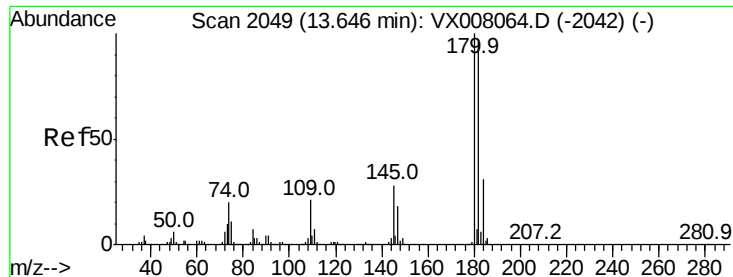
MMDadoda
 3/15/2019 9:06:52 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.819 ug/l
 RT: 13.00 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VX008063.D
 Acq: 14 Mar 2019 10:32

Tgt Ion	Ratio	Lower	Upper
75	100		
155	100.0	49.7	149.1
157	126.1	63.8	191.4





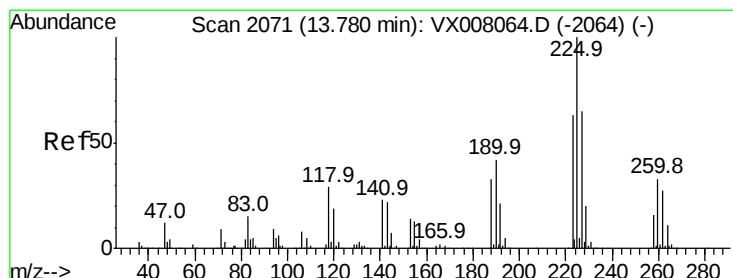
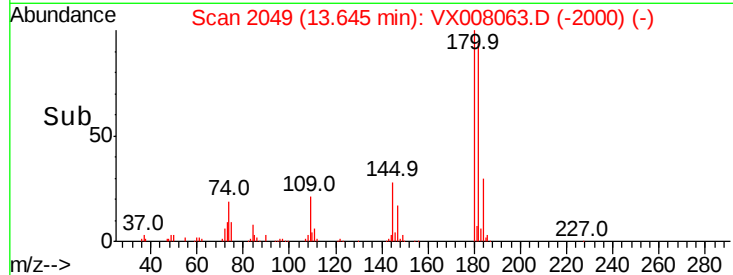
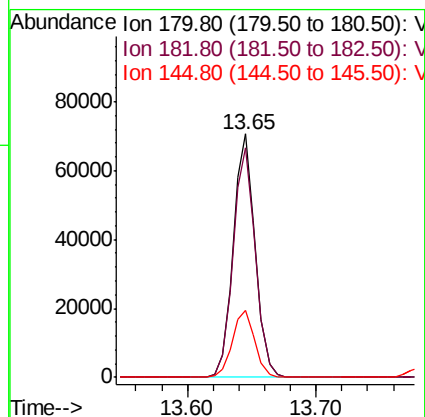
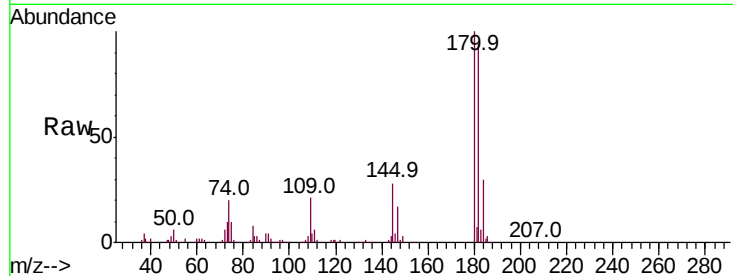
#93
 1,2,4-Trichlorobenzene
 Concen: 18.744 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. -0.00 min
 Lab File: VX008063.D
 Acq: 14 Mar 2019 10:32

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC020

Tot Ion:	180	Resp:	83767
Ion Ratio	Lower	Upper	
180	100		
182	95.8	47.9	143.7
145	28.2	14.1	42.4

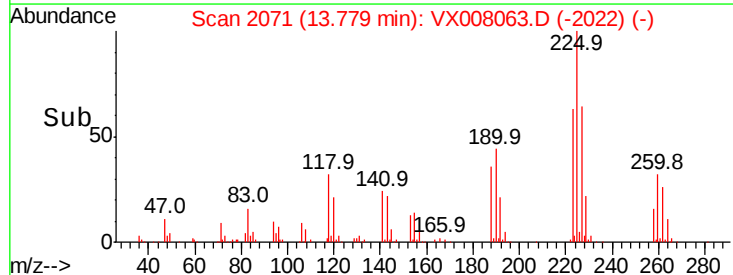
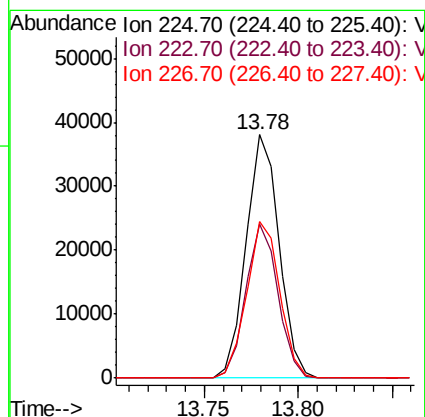
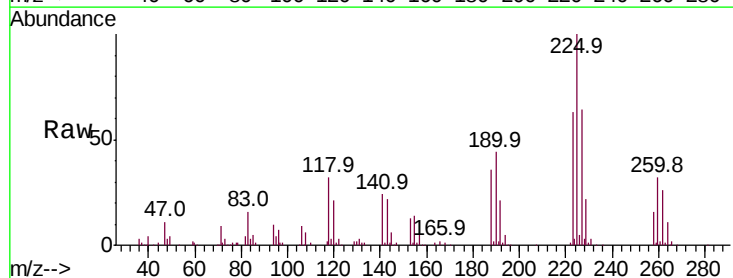
Manual Integrations
 APPROVED

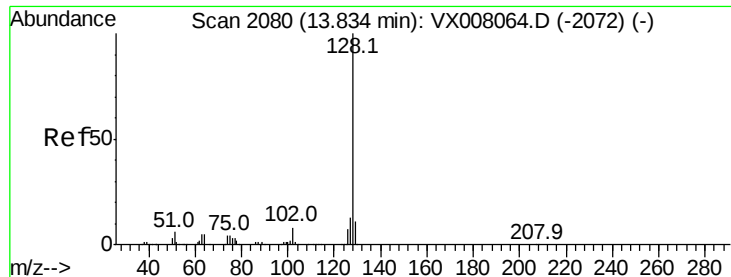
MMDadoda
 3/15/2019 9:06:52 AM



#94
 Hexachlorobutadiene
 Concen: 18.981 ug/l
 RT: 13.78 min Scan# 2071
 Delta R.T. -0.00 min
 Lab File: VX008063.D
 Acq: 14 Mar 2019 10:32

Tgt Ion:	225	Resp:	46237
Ion Ratio	Lower	Upper	
225	100		
223	61.5	31.1	93.2
227	64.5	32.0	96.0





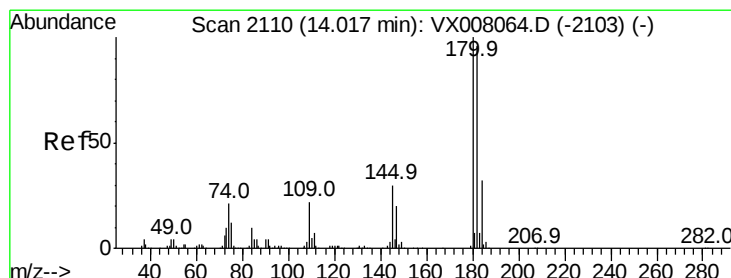
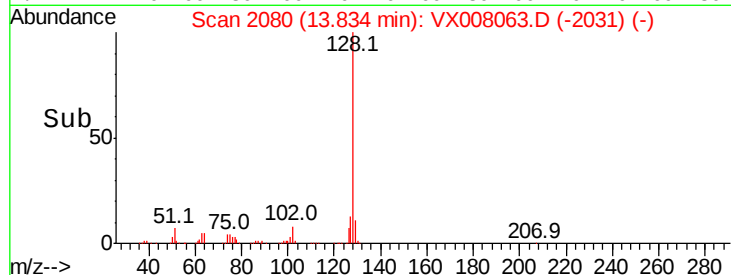
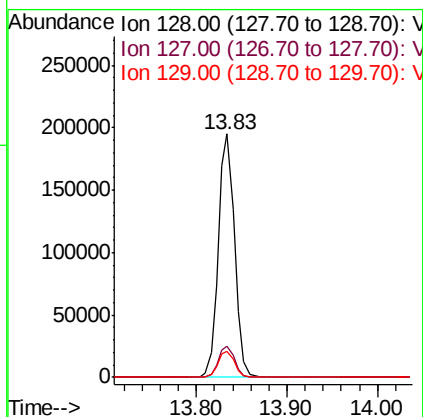
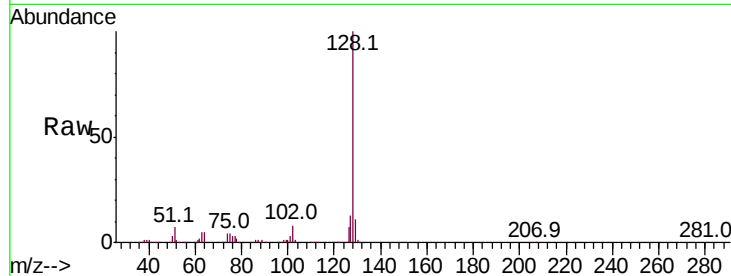
#95
Naphthalene
Concen: 18.424 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX008063.D
Acq: 14 Mar 2019 10:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
128	100	243639		
127	12.9		10.3	15.5
129	11.1		8.7	13.1

Manual Integrations
APPROVED

MMDadoda
3/15/2019 9:06:52 AM



#96
1,2,3-Trichlorobenzene
Concen: 18.974 ug/l
RT: 14.02 min Scan# 2110
Delta R.T. -0.00 min
Lab File: VX008063.D
Acq: 14 Mar 2019 10:32

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	84543		
182	97.1		47.5	142.5
145	29.6		14.8	44.3

