

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060819\
 Data File : VX010163.D
 Acq On : 09 Jun 2019 00:53
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 6/10/2019 9:40:35 AM

Quant Time: Jun 10 09:17:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 02:12:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	260999	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	401907	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	368098	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	190969	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	126240	49.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.10%	
35) Dibromofluoromethane	5.50	113	125333	50.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.12%	
50) Toluene-d8	8.71	98	477944	51.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.88%	
62) 4-Bromofluorobenzene	11.13	95	179655	51.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.56%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	127224	52.976	ug/l	100
3) Chloromethane	1.32	50	125356	52.559	ug/l	99
4) Vinyl Chloride	1.41	62	127722	56.978	ug/l	99
5) Bromomethane	1.64	94	48411	57.232	ug/l	99
6) Chloroethane	1.71	64	67697	59.900	ug/l	100
7) Trichlorofluoromethane	1.92	101	190632	57.252	ug/l	98
8) Diethyl Ether	2.19	74	64527	56.226	ug/l	77
9) 1,1,2-Trichlorotrifluoroet	2.38	101	111457	48.560	ug/l	90
10) Methyl Iodide	2.51	142	186546	52.457	ug/l	96
11) Tert butyl alcohol	3.05	59	164147	263.013	ug/l	99
12) 1,1-Dichloroethene	2.37	96	114559	48.866	ug/l #	76
13) Acrolein	2.29	56	29125	255.933	ug/l	99
14) Allyl chloride	2.73	41	163732	46.269	ug/l #	88
15) Acrylonitrile	3.14	53	326274	255.770	ug/l	98
16) Acetone	2.45	43	256627	214.166	ug/l #	84
17) Carbon Disulfide	2.57	76	312901	46.193	ug/l	98
18) Methyl Acetate	2.78	43	132715	50.362	ug/l #	82
19) Methyl tert-butyl Ether	3.20	73	366519	48.664	ug/l	92
20) Methylene Chloride	2.85	84	128569	48.856	ug/l #	77
21) trans-1,2-Dichloroethene	3.17	96	122276	47.131	ug/l #	75
22) Diisopropyl ether	3.85	45	341916	50.536	ug/l #	89
23) Vinyl Acetate	3.82	43	1487180	246.392	ug/l #	88
24) 1,1-Dichloroethane	3.70	63	199287	48.513	ug/l	95
25) 2-Butanone	4.68	43	442179	247.813	ug/l #	81
26) 2,2-Dichloropropane	4.59	77	133203	35.544	ug/l	91
27) cis-1,2-Dichloroethene	4.60	96	143233	49.627	ug/l	77
28) Bromochloromethane	5.01	49	92365	50.170	ug/l #	47
29) Tetrahydrofuran	5.13	42	287604	256.476	ug/l #	74
30) Chloroform	5.21	83	209587	49.127	ug/l	100
31) Cyclohexane	5.58	56	186854	50.400	ug/l #	75
32) 1,1,1-Trichloroethane	5.49	97	190746	47.559	ug/l	93
36) 1,1-Dichloropropene	5.80	75	154773	47.202	ug/l	93
37) Ethyl Acetate	4.84	43	165946	48.641	ug/l #	91
38) Carbon Tetrachloride	5.78	117	175307	47.235	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060819\
 Data File : VX010163.D
 Acq On : 09 Jun 2019 00:53
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 6/10/2019 9:40:35 AM

Quant Time: Jun 10 09:17:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 02:12:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	7.46	83	205661	46.062	ug/l #	83
40) Benzene	6.14	78	500410	49.354	ug/l	100
41) Methacrylonitrile	5.04	41	90980	49.299	ug/l #	85
42) 1,2-Dichloroethane	6.19	62	152263	47.039	ug/l	93
43) Isopropyl Acetate	6.45	43	276363	48.448	ug/l #	88
44) Trichloroethene	7.21	130	148046	48.441	ug/l	86
45) 1,2-Dichloropropane	7.51	63	123898	48.822	ug/l	97
46) Dibromomethane	7.66	93	89525	47.088	ug/l	90
47) Bromodichloromethane	7.90	83	171088	48.158	ug/l #	98
48) Methyl methacrylate	7.77	41	131782	49.399	ug/l #	78
49) 1,4-Dioxane	7.74	88	76842	1010.285	ug/l #	80
51) 4-Methyl-2-Pentanone	8.64	43	896280	263.015	ug/l	90
52) Toluene	8.79	92	324533	48.693	ug/l	100
53) t-1,3-Dichloropropene	9.04	75	186053	45.277	ug/l	98
54) cis-1,3-Dichloropropene	8.43	75	201581	45.759	ug/l #	89
55) 1,1,2-Trichloroethane	9.21	97	137308	50.304	ug/l	97
56) Ethyl methacrylate	9.18	69	216050	50.107	ug/l #	81
57) 1,3-Dichloropropane	9.37	76	213257	49.626	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.31	63	501979	246.955	ug/l #	86
59) 2-Hexanone	9.49	43	698240	256.988	ug/l	87
60) Dibromochloromethane	9.58	129	158843	49.199	ug/l	100
61) 1,2-Dibromoethane	9.67	107	149346	49.126	ug/l	99
64) Tetrachloroethene	9.34	164	135984	49.739	ug/l	98
65) Chlorobenzene	10.13	112	371562	48.907	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.22	131	141417	48.404	ug/l	99
67) Ethyl Benzene	10.25	91	626143	48.414	ug/l	94
68) m/p-Xylenes	10.36	106	495417	98.989	ug/l	89
69) o-Xylene	10.69	106	243046	48.854	ug/l	89
70) Styrene	10.71	104	420976	49.962	ug/l	95
71) Bromoform	10.85	173	133430	49.679	ug/l	98
73) Isopropylbenzene	11.02	105	639570	47.976	ug/l	95
74) N-amyl acetate	10.90	43	255758	48.534	ug/l #	88
75) 1,1,2,2-Tetrachloroethane	11.27	83	220534	48.328	ug/l	99
76) 1,2,3-Trichloropropane	11.29	75	181130m	47.419	ug/l	
77) Bromobenzene	11.26	156	175737	47.938	ug/l	82
78) n-propylbenzene	11.36	91	708994	47.772	ug/l	94
79) 2-Chlorotoluene	11.42	91	423950	47.563	ug/l	91
80) 1,3,5-Trimethylbenzene	11.51	105	534900	47.639	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.07	75	74220	42.931	ug/l #	83
82) 4-Chlorotoluene	11.51	91	483434	47.744	ug/l	91
83) tert-Butylbenzene	11.77	119	538642	47.397	ug/l	94
84) 1,2,4-Trimethylbenzene	11.80	105	544932	48.048	ug/l	97
85) sec-Butylbenzene	11.94	105	628821	47.494	ug/l	96
86) p-Isopropyltoluene	12.06	119	576607	47.638	ug/l	97
87) 1,3-Dichlorobenzene	12.02	146	308648	47.799	ug/l	98
88) 1,4-Dichlorobenzene	12.10	146	310686	47.729	ug/l	97
89) n-Butylbenzene	12.38	91	492396	47.260	ug/l	97
90) Hexachloroethane	12.59	117	111471	46.232	ug/l	99
91) 1,2-Dichlorobenzene	12.39	146	305058	48.595	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.00	75	48484	45.151	ug/l	64

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060819\
Data File : VX010163.D
Acq On : 09 Jun 2019 00:53
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

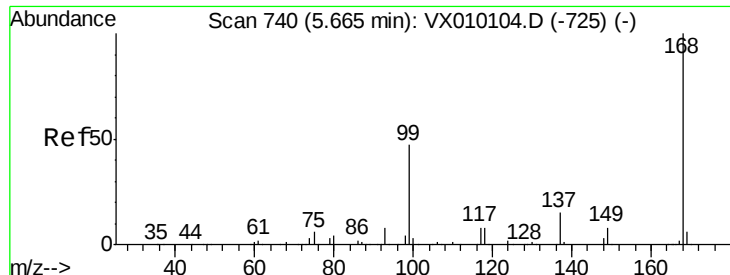
Manual Integrations
APPROVED

MMDadoda
6/10/2019 9:40:35 AM

Quant Time: Jun 10 09:17:59 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 08 02:12:13 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	212920	46.336	ug/l	98
94) Hexachlorobutadiene	13.78	225	92932	45.474	ug/l	99
95) Naphthalene	13.83	128	700323	48.415	ug/l	99
96) 1,2,3-Trichlorobenzene	14.02	180	215337	47.395	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 260999

Ion Ratio Lower Upper

168 100

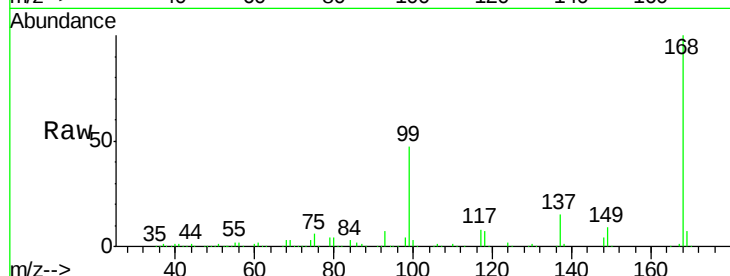
99 46.5 43.0 64.6

Manual Integrations

APPROVED

MMDadoda

6/10/2019 9:40:35 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

40000

20000

0

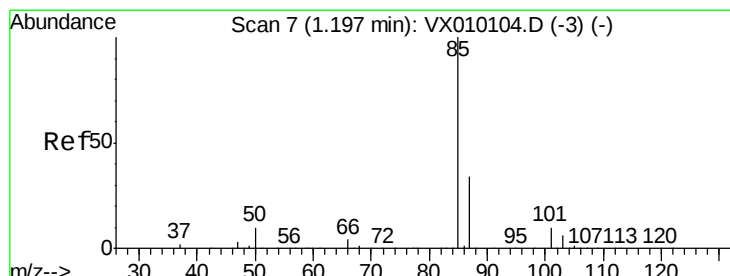
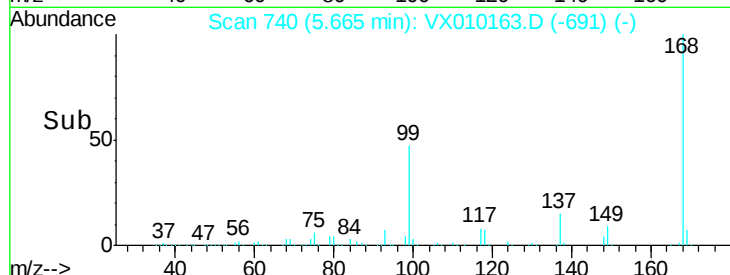
Time-->

5.50

5.60

5.70

5.80



#2

Dichlorodifluoromethane

Concen: 52.976 ug/l

RT: 1.20 min Scan# 7

Delta R.T. -0.00 min

Lab File: VX010163.D

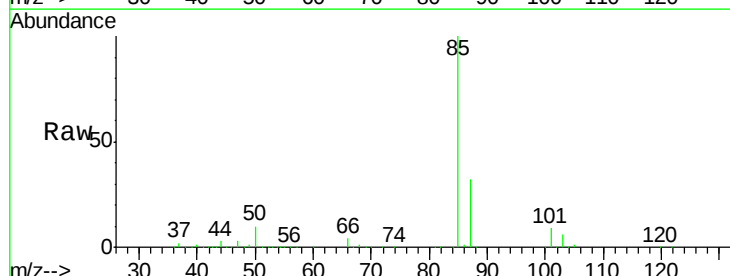
Acq: 09 Jun 2019 00:53

Tgt Ion: 85 Resp: 127224

Ion Ratio Lower Upper

85 100

87 32.3 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

150000

100000

50000

0

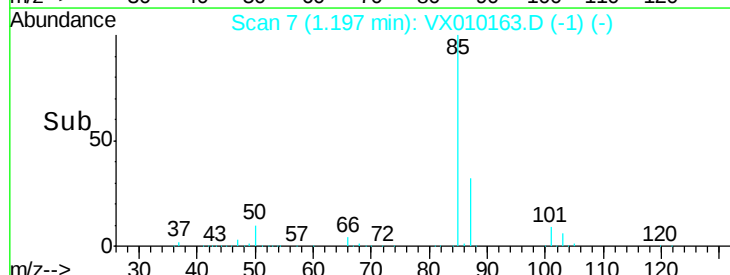
Time-->

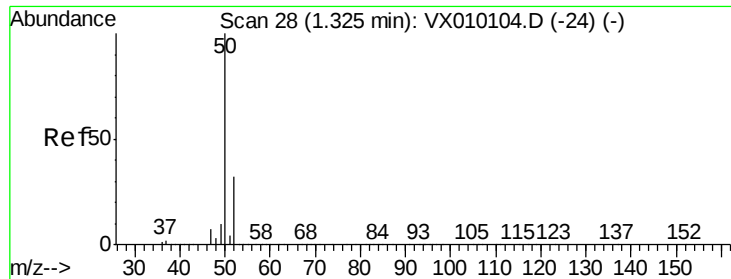
1.15

1.20

1.25

1.30





#3

Chloromethane

Concen: 52.559 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 125356

Ion Ratio Lower Upper

50 100

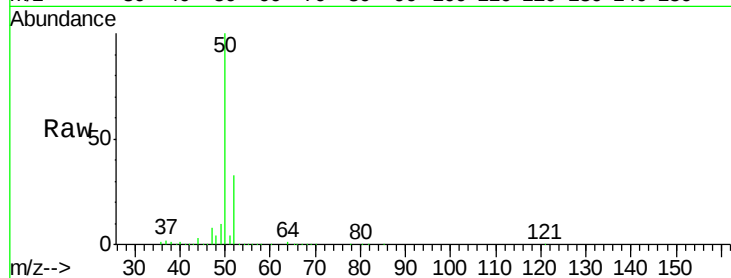
52 33.0 26.0 39.0

Manual Integrations

APPROVED

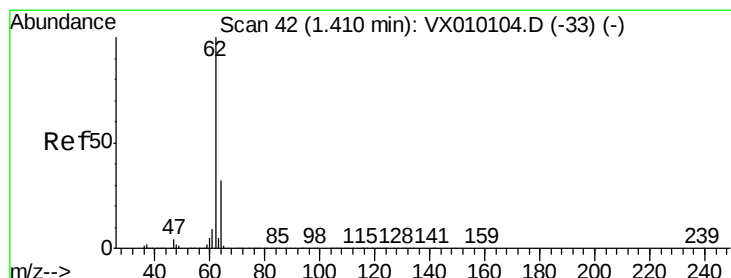
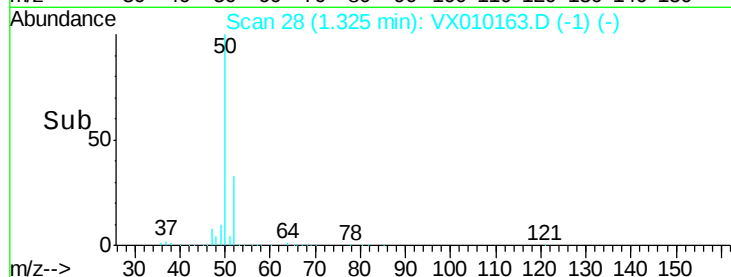
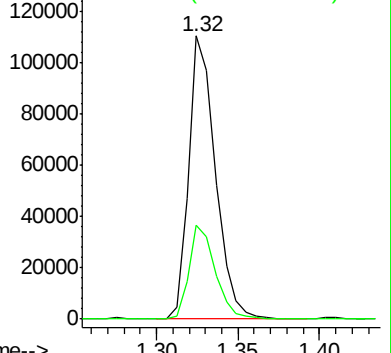
MMDadoda

6/10/2019 9:40:35 AM



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 56.978 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX010163.D

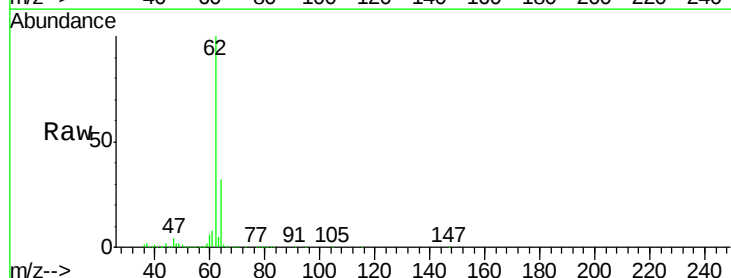
Acq: 09 Jun 2019 00:53

Tgt Ion: 62 Resp: 127722

Ion Ratio Lower Upper

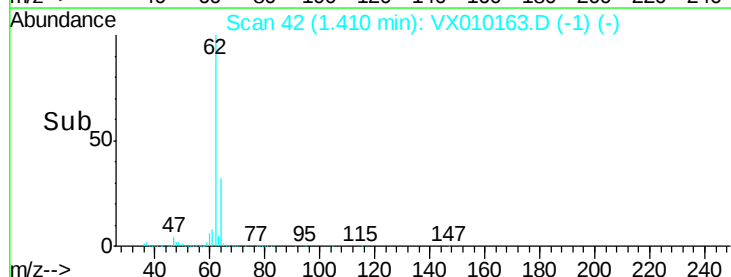
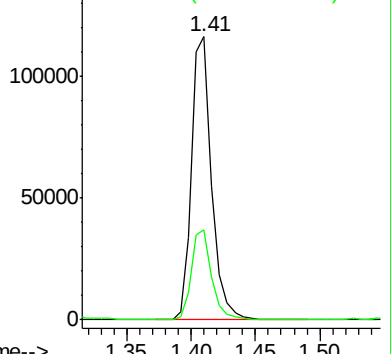
62 100

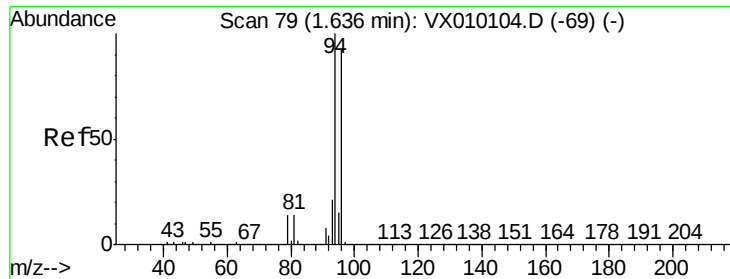
64 31.5 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 57.232 ug/l

RT: 1.64 min Scan# 79

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion: 94 Resp: 48411

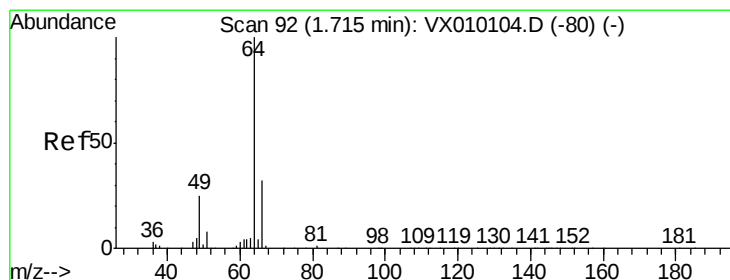
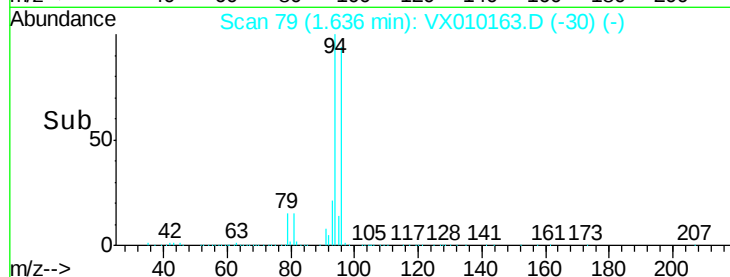
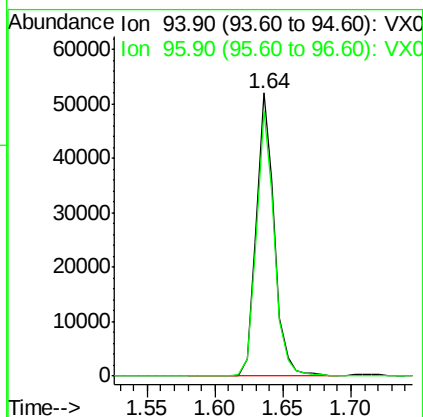
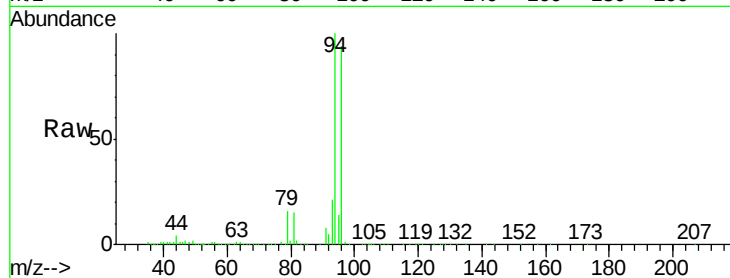
Ion Ratio Lower Upper

94 100

96 93.9 76.2 114.4

Manual Integrations
APPROVED

MMDadoda
6/10/2019 9:40:35 AM



#6

Chloroethane

Concen: 59.900 ug/l

RT: 1.71 min Scan# 92

Delta R.T. 0.00 min

Lab File: VX010163.D

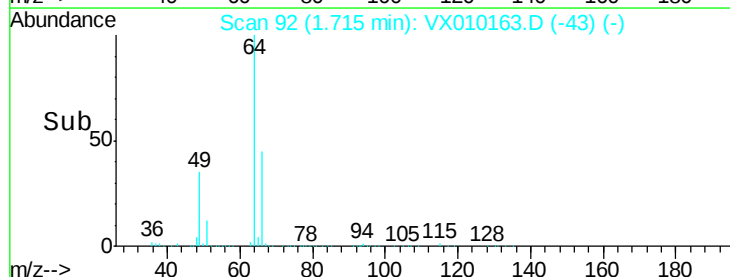
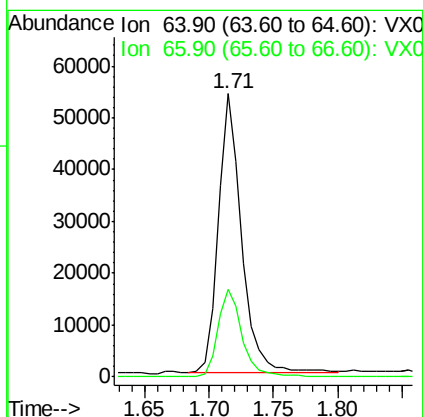
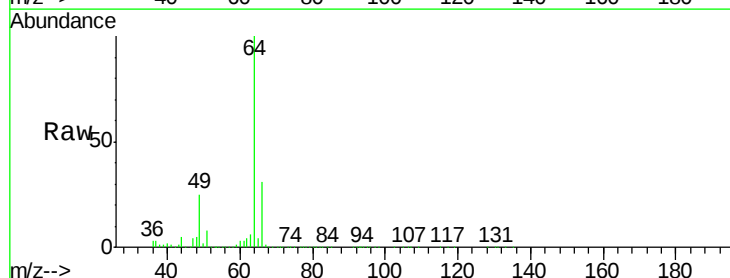
Acq: 09 Jun 2019 00:53

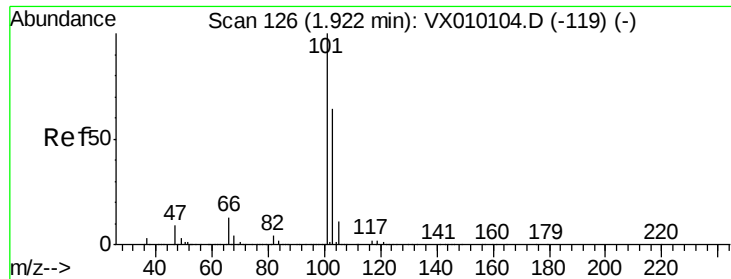
Tgt Ion: 64 Resp: 67697

Ion Ratio Lower Upper

64 100

66 31.2 25.1 37.7





#7

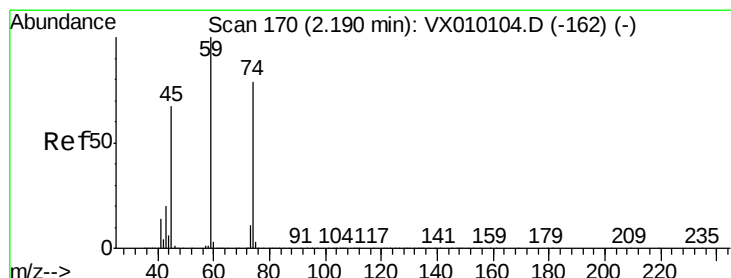
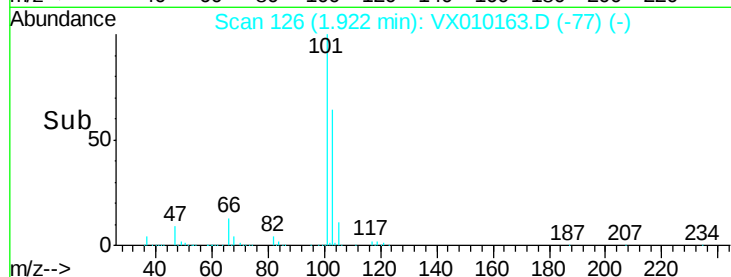
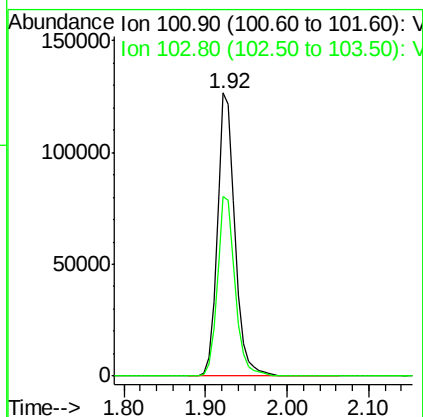
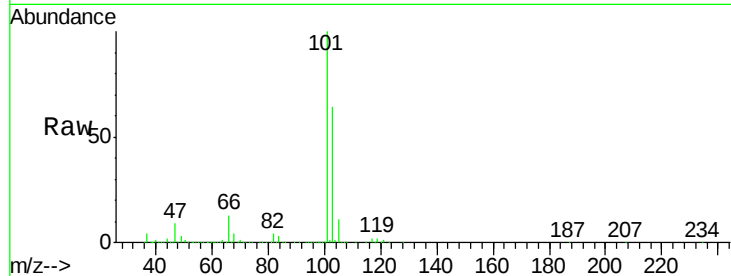
Trichlorofluoromethane
Concen: 57.252 ug/l
RT: 1.92 min Scan# 126
Delta R.T. -0.00 min
Lab File: VX010163.D
Acq: 09 Jun 2019 00:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.7	52.2	78.4

Manual Integrations
APPROVED

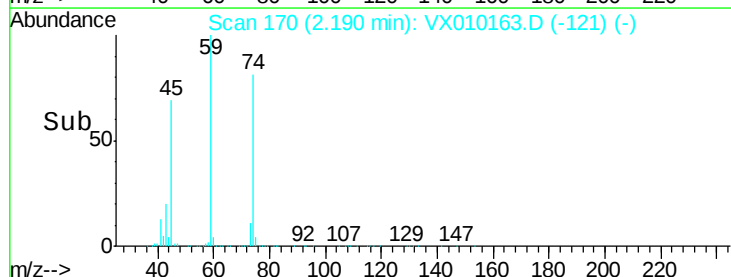
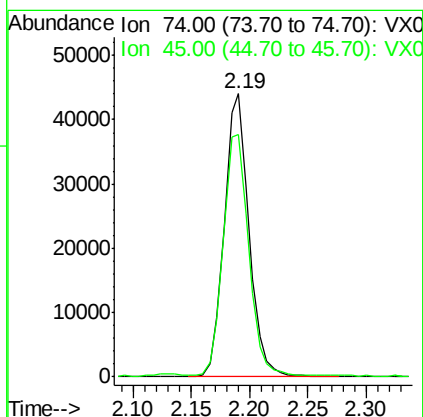
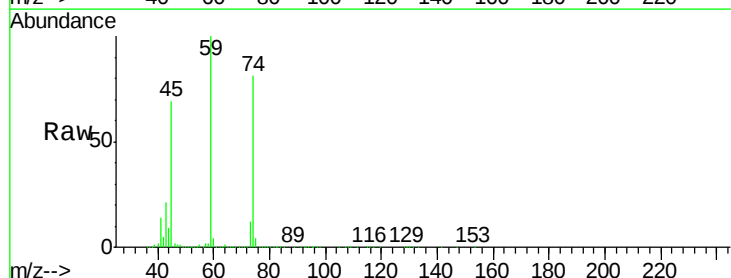
MMDadoda
6/10/2019 9:40:35 AM

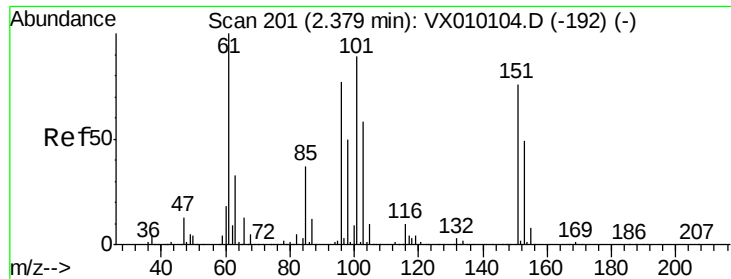


#8

Diethyl Ether
Concen: 56.226 ug/l
RT: 2.19 min Scan# 170
Delta R.T. -0.00 min
Lab File: VX010163.D
Acq: 09 Jun 2019 00:53

Tgt Ion	Ratio	Lower	Upper
74	100		
45	87.8	56.1	168.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.560 ug/l

RT: 2.38 min Scan# 201

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Instrument :

MSVOA_X

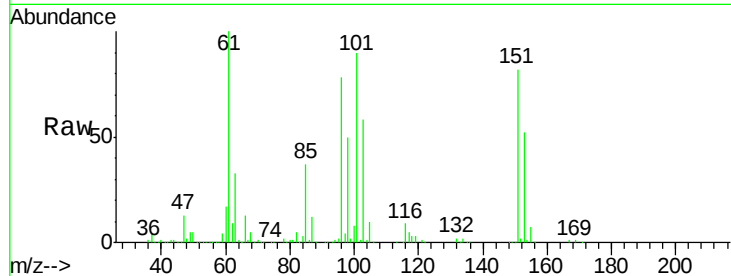
ClientSampleId :

VSTDCCC050EC

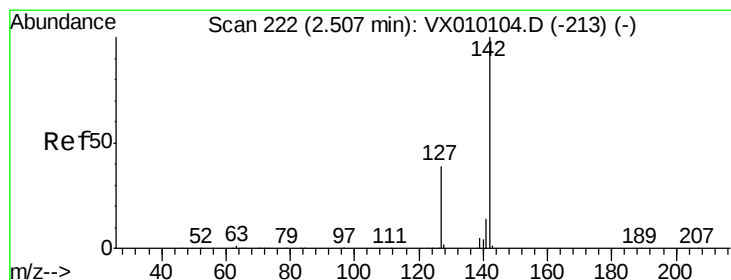
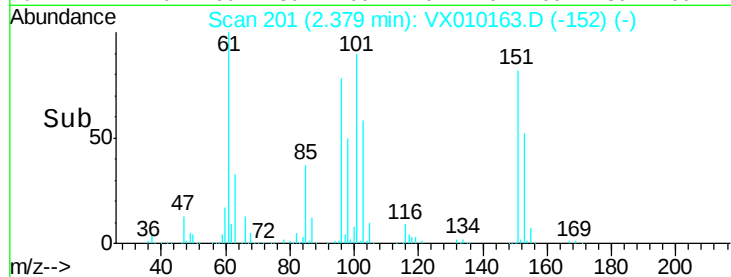
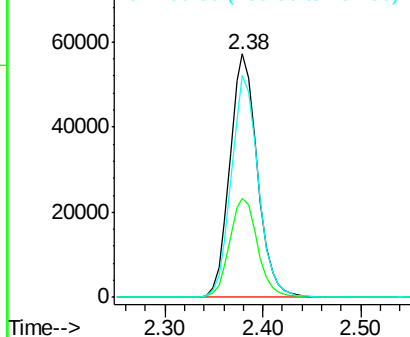
Tot Ion:	101	Resp:	111457
Ion Ratio	Lower	Upper	
101	100		
85	41.4	35.2	52.8
151	89.6	61.9	92.9

Manual Integrations
APPROVED

MMDadoda
6/10/2019 9:40:35 AM



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



#10

Methyl Iodide

Concen: 52.457 ug/l

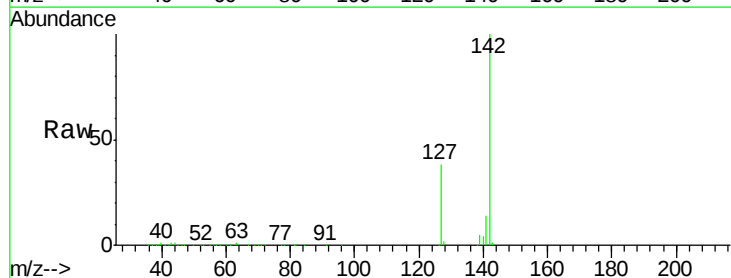
RT: 2.51 min Scan# 222

Delta R.T. -0.00 min

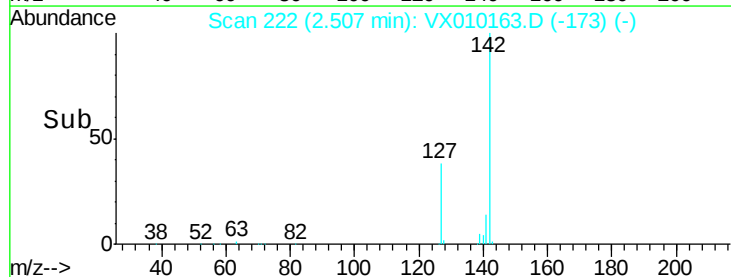
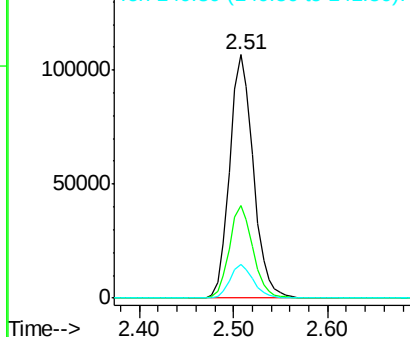
Lab File: VX010163.D

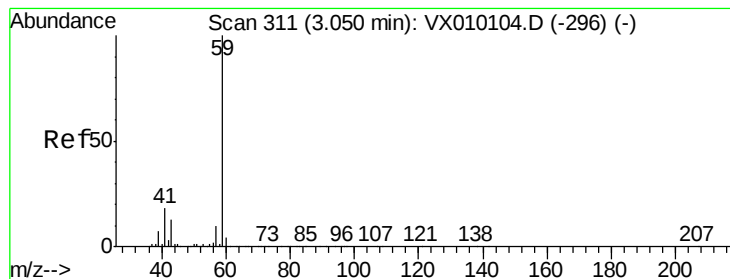
Acq: 09 Jun 2019 00:53

Tgt Ion:	142	Resp:	186546
Ion Ratio	Lower	Upper	
142	100		
127	37.7	33.0	49.4
141	13.9	11.4	17.0



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





#11

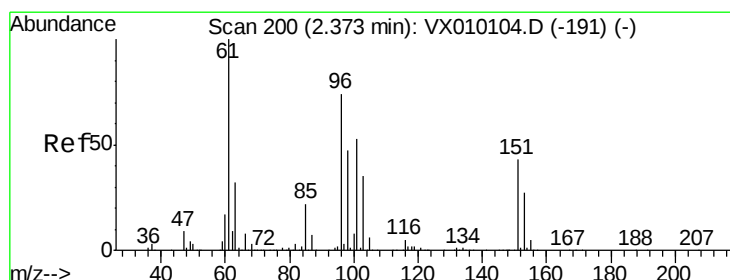
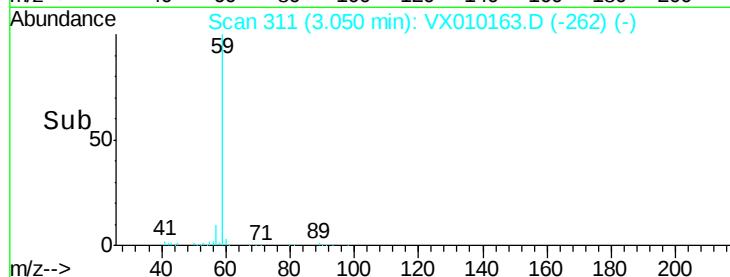
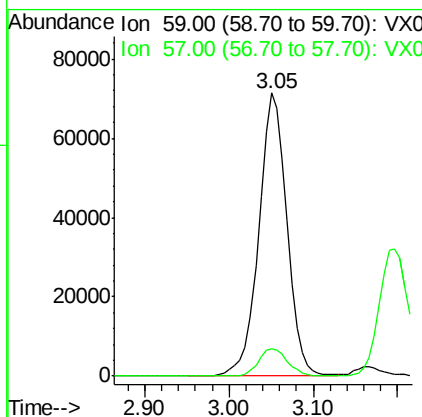
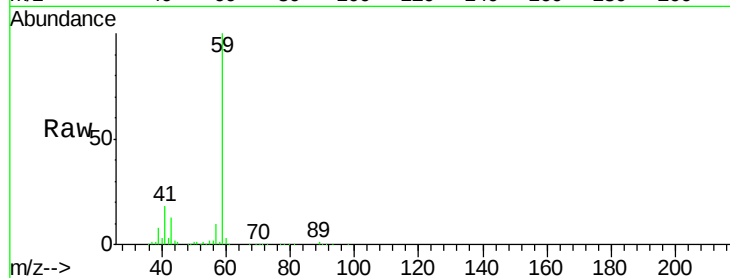
Tert butyl alcohol
Concen: 263.013 ug/l
RT: 3.05 min Scan# 311
Delta R.T. -0.00 min
Lab File: VX010163.D
Acq: 09 Jun 2019 00:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tot Ion	59	Resp	164147
Ion Ratio	100	Lower	Upper
57	9.8	8.2	12.2

Manual Integrations
APPROVED

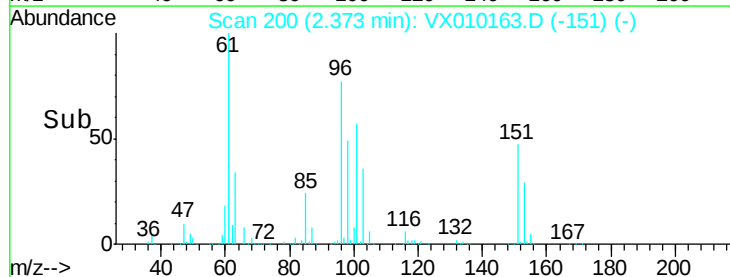
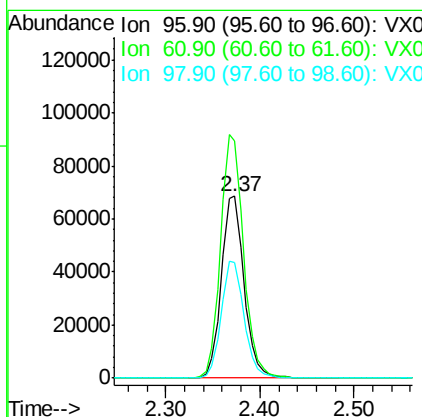
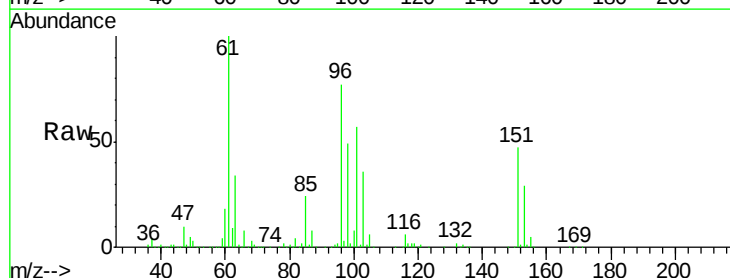
MMDadoda
6/10/2019 9:40:35 AM

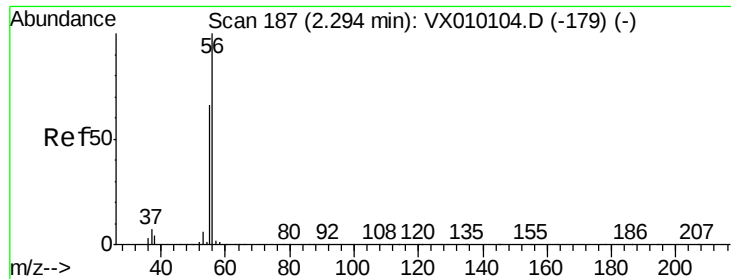


#12

1,1-Dichloroethene
Concen: 48.866 ug/l
RT: 2.37 min Scan# 200
Delta R.T. -0.00 min
Lab File: VX010163.D
Acq: 09 Jun 2019 00:53

Tgt Ion	96	Resp	114559
Ion Ratio	100	Lower	Upper
61	130.1	140.7	211.1#
98	63.3	50.1	75.1





#13

Acrolein

Concen: 255.933 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 29125

Ion Ratio Lower Upper

56 100

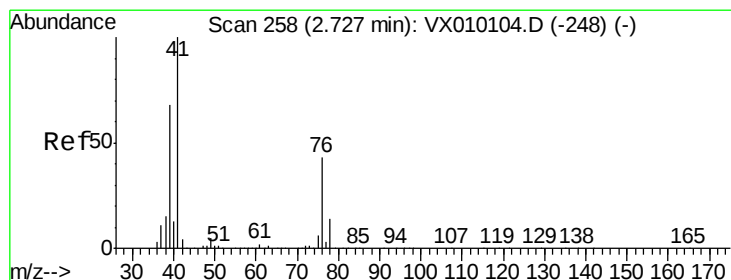
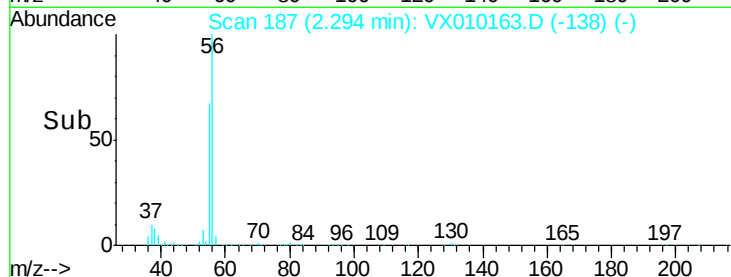
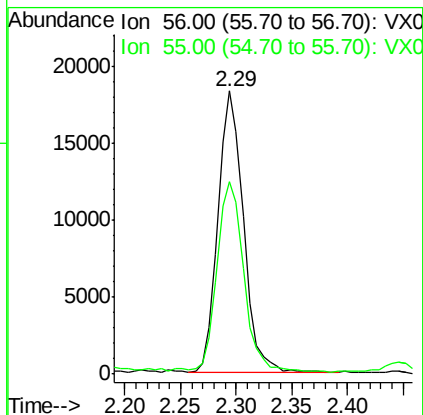
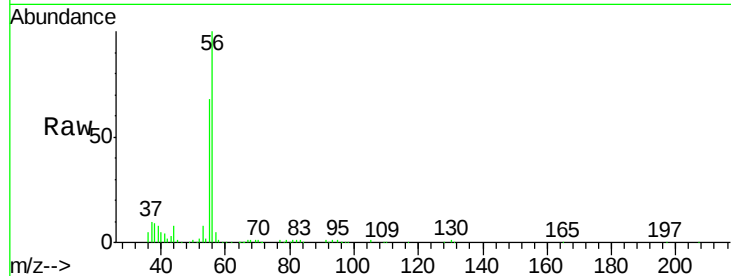
55 70.7 57.0 85.4

Manual Integrations

APPROVED

MMDadoda

6/10/2019 9:40:35 AM



#14

Allyl chloride

Concen: 46.269 ug/l

RT: 2.73 min Scan# 258

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

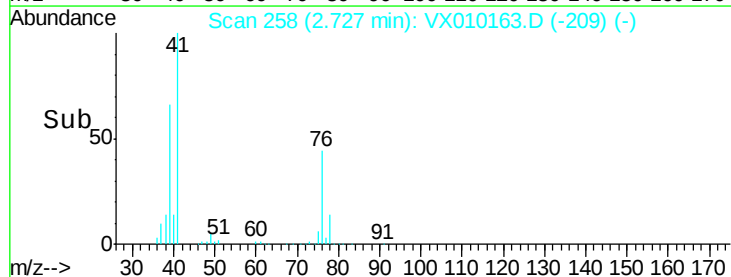
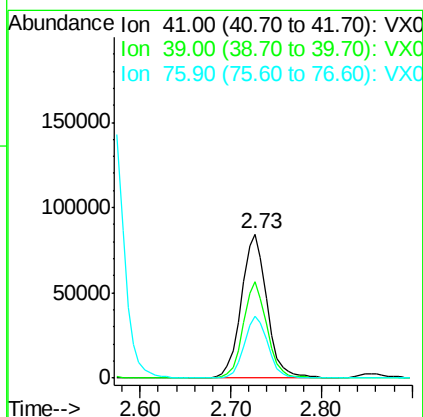
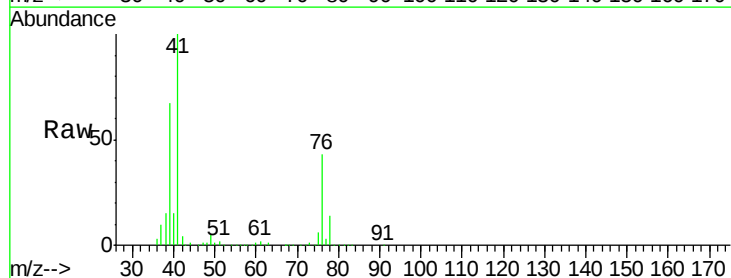
Tgt Ion: 41 Resp: 163732

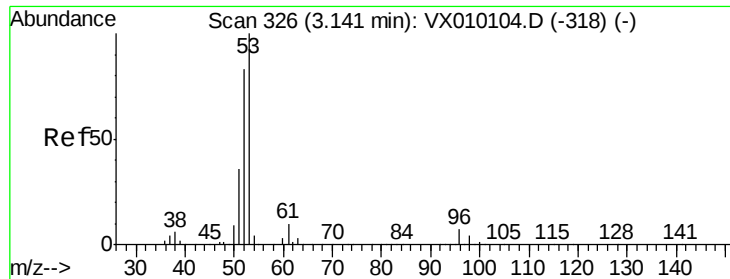
Ion Ratio Lower Upper

41 100

39 62.1 46.7 70.1

76 39.6 21.0 31.4#





#15

Acrylonitrile

Concen: 255.770 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Instrument :

MSVOA_X

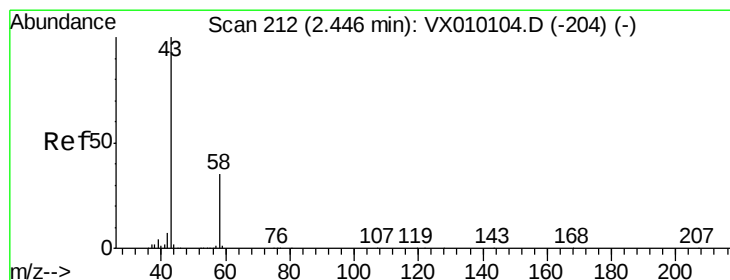
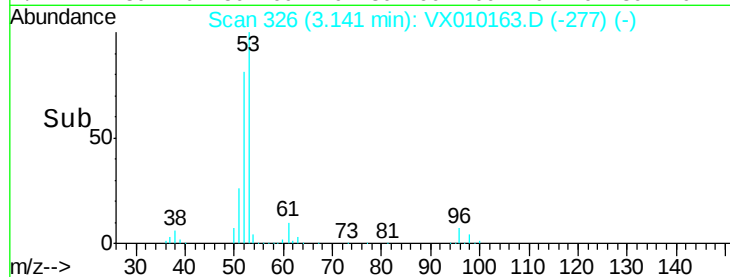
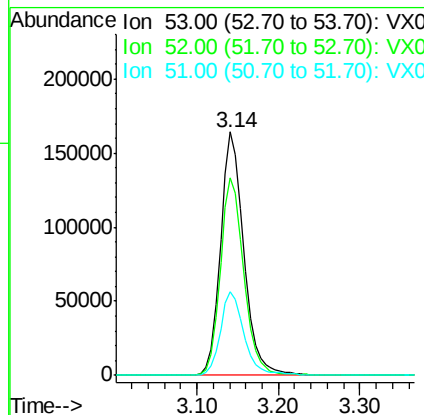
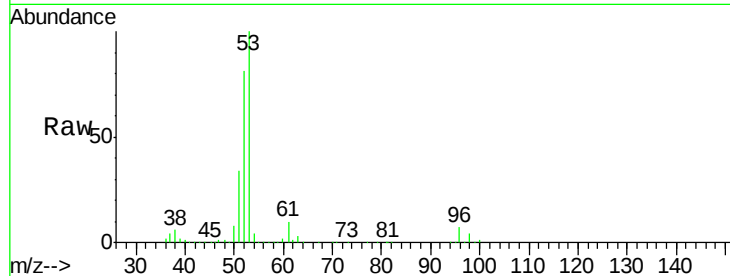
ClientSampleId :

VSTDCCC050EC

Tot Ion:	53	Resp:	326274
Ion	Ratio	Lower	Upper
53	100		
52	81.8	66.7	100.1
51	34.7	28.8	43.2

Manual Integrations
APPROVED

MMDadoda
6/10/2019 9:40:35 AM



#16

Acetone

Concen: 214.166 ug/l

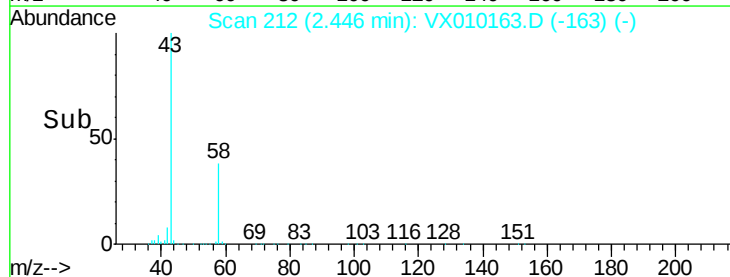
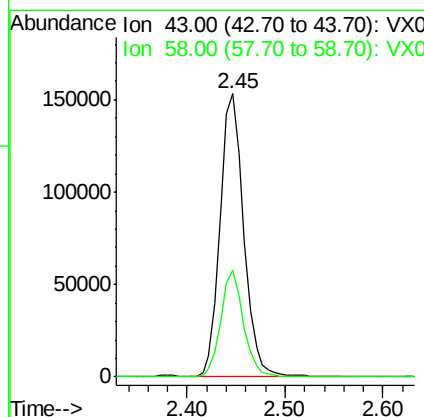
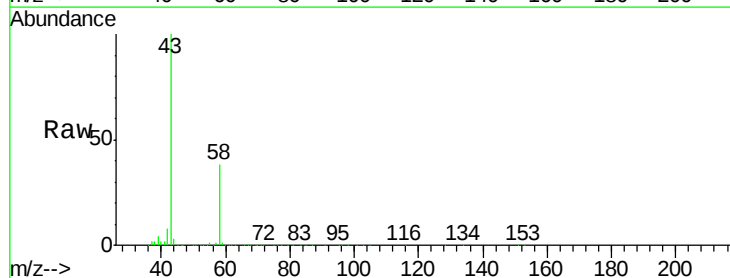
RT: 2.45 min Scan# 212

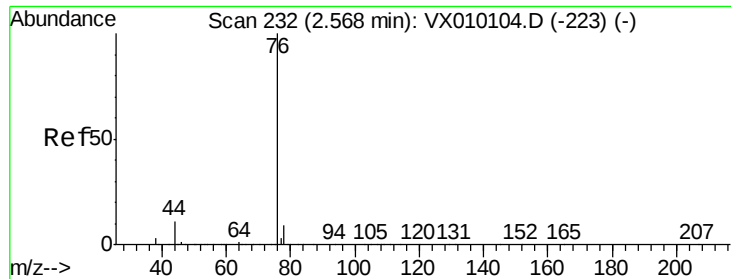
Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Tgt Ion:	43	Resp:	256627
Ion	Ratio	Lower	Upper
43	100		
58	37.8	23.2	34.8#





#17

Carbon Disulfide

Concen: 46.193 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion: 76 Resp: 312901

Ion Ratio Lower Upper

76 100

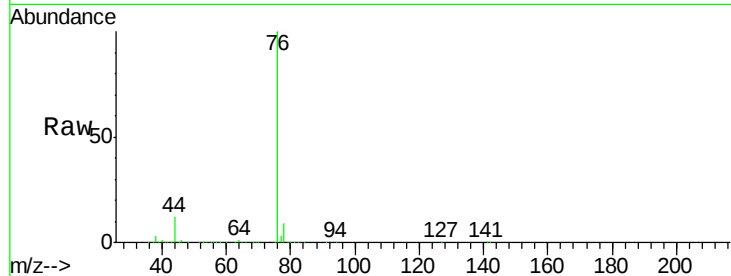
78 9.5 7.0 10.6

Manual Integrations

APPROVED

MMDadoda

6/10/2019 9:40:35 AM



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

200000

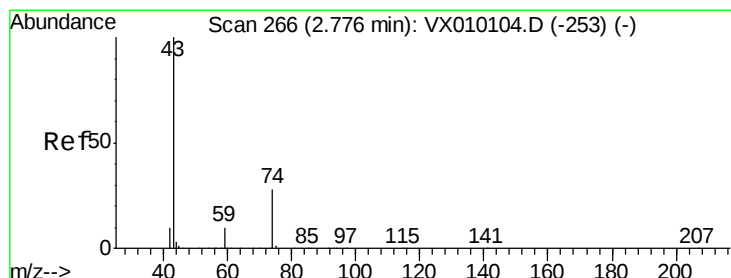
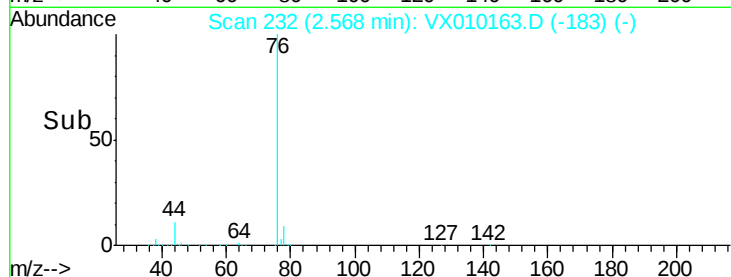
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 50.362 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.00 min

Lab File: VX010163.D

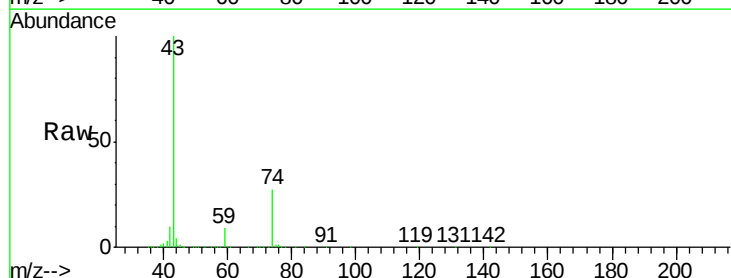
Acq: 09 Jun 2019 00:53

Tgt Ion: 43 Resp: 132715

Ion Ratio Lower Upper

43 100

74 28.1 15.8 23.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

80000

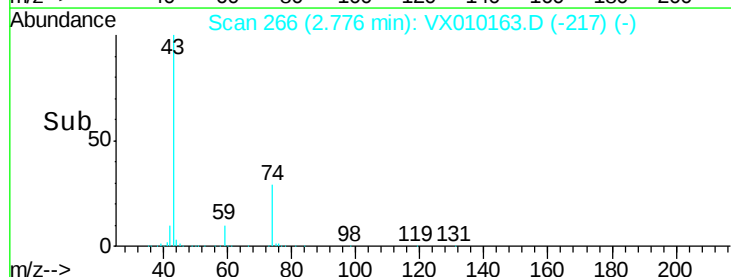
60000

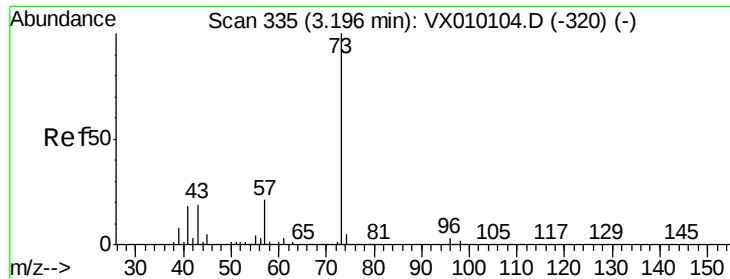
40000

20000

0

Time-->





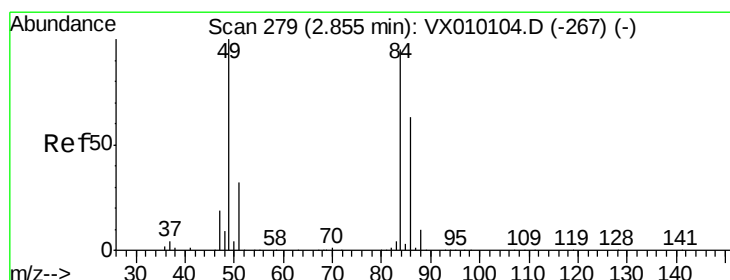
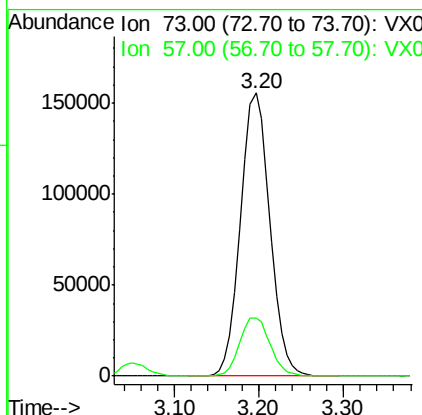
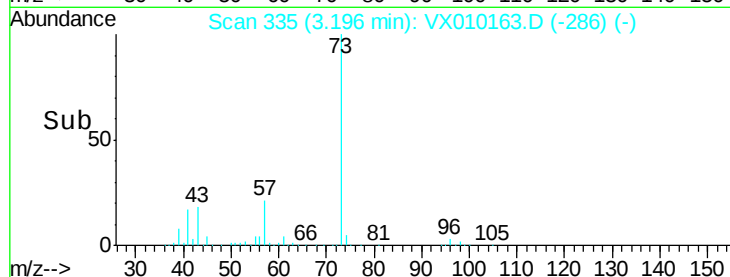
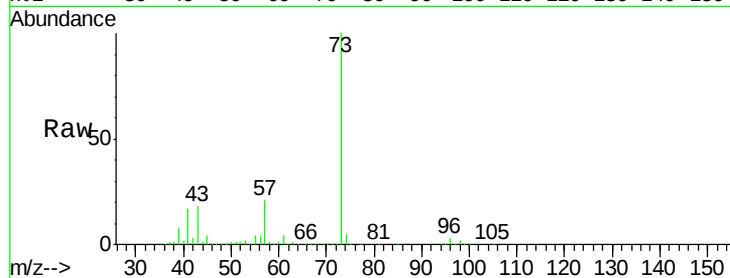
#19
Methyl tert-butyl Ether
Concen: 48.664 ug/l
RT: 3.20 min Scan# 335
Delta R.T. -0.00 min
Lab File: VX010163.D
Acq: 09 Jun 2019 00:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tot Ion: 73 Resp: 366519
Ion Ratio Lower Upper
73 100
57 20.6 19.4 29.2

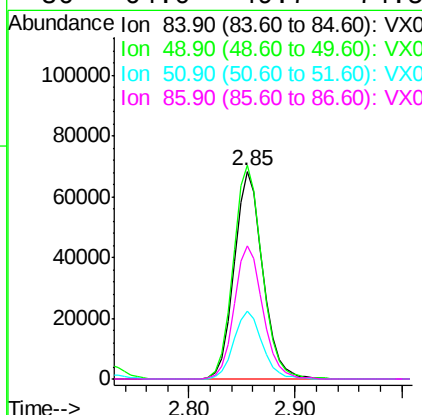
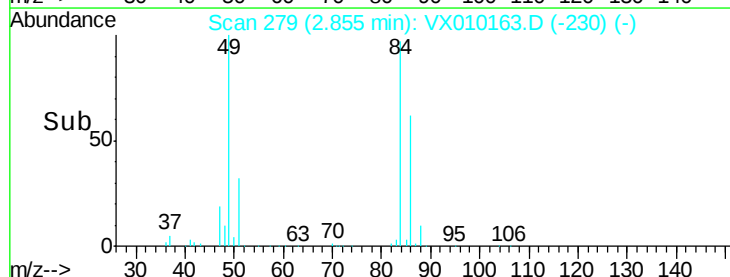
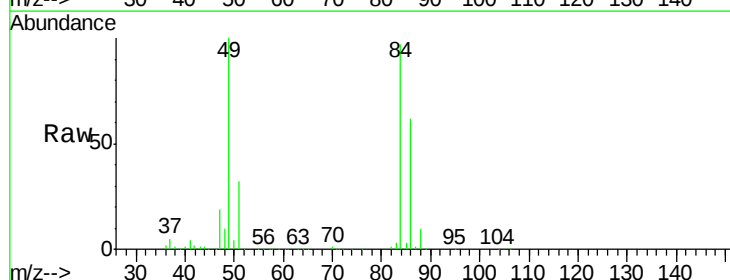
Manual Integrations
APPROVED

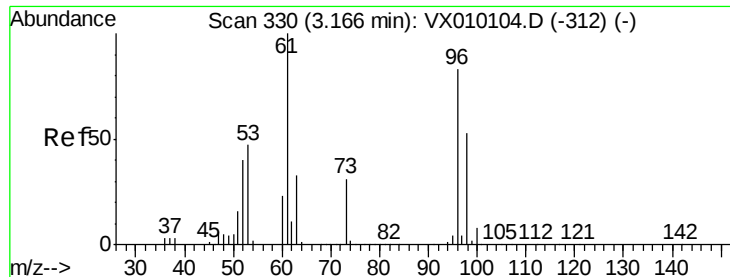
MMDadoda
6/10/2019 9:40:35 AM



#20
Methylene Chloride
Concen: 48.856 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX010163.D
Acq: 09 Jun 2019 00:53

Tgt Ion: 84 Resp: 128569
Ion Ratio Lower Upper
84 100
49 102.6 115.8 173.6#
51 32.4 34.4 51.6#
86 64.0 49.7 74.5





#21

trans-1,2-Dichloroethene

Concen: 47.131 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion: 96 Resp: 122276

Ion Ratio Lower Upper

96 100

61 114.5 125.7 188.5#

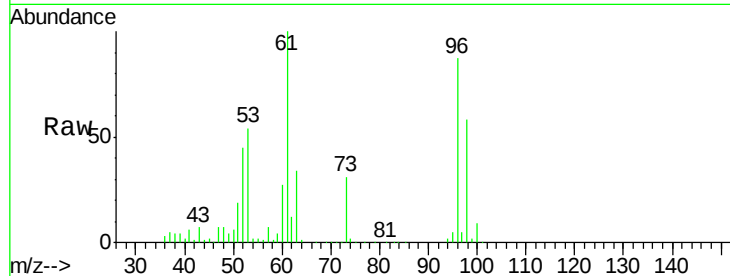
98 65.8 49.0 73.6

Manual Integrations

APPROVED

MMDadoda

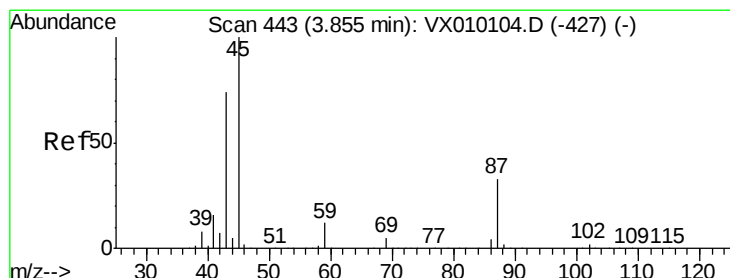
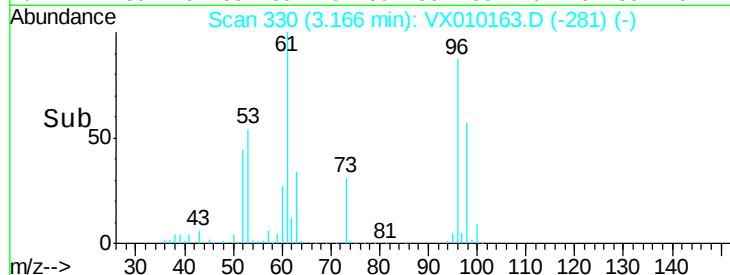
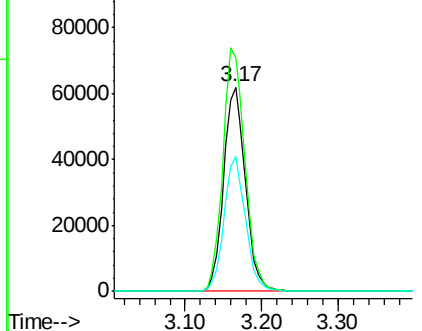
6/10/2019 9:40:35 AM



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#22

Diisopropyl ether

Concen: 50.536 ug/l

RT: 3.85 min Scan# 443

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Tgt Ion: 45 Resp: 341916

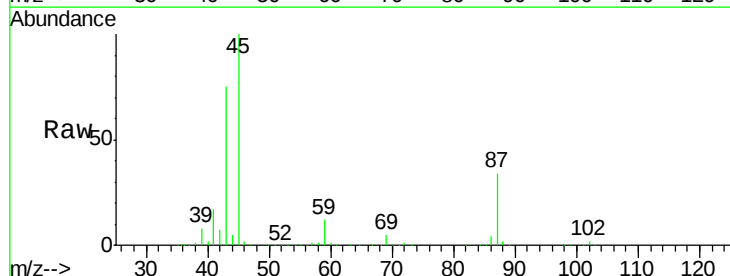
Ion Ratio Lower Upper

45 100

43 74.5 65.0 97.4

87 33.6 17.3 25.9#

59 12.4 8.1 12.1#

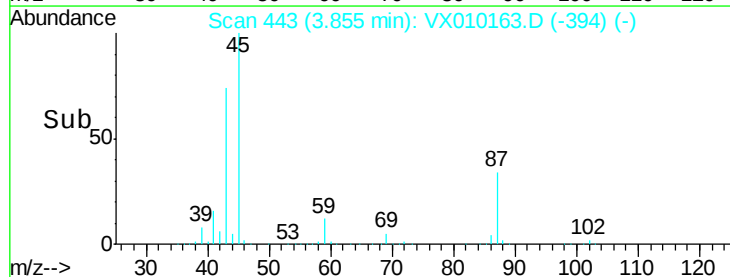
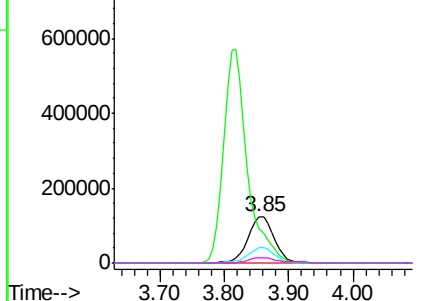


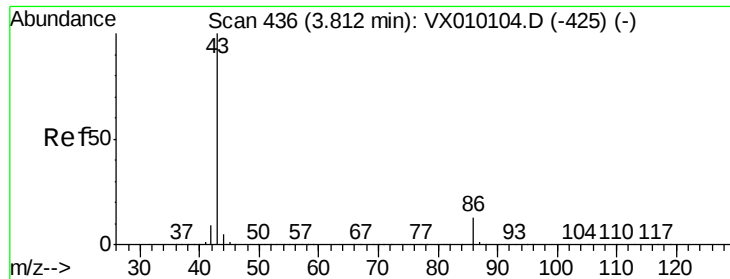
Abundance Ion 45.00 (44.70 to 45.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

Ion 59.00 (58.70 to 59.70): VX0





#23

Vinyl Acetate

Concen: 246.392 ug/l

RT: 3.82 min Scan# 437

Delta R.T. 0.01 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 1487180

Ion Ratio Lower Upper

43 100

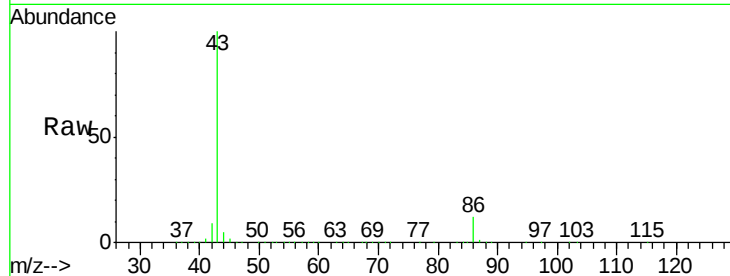
86 12.4 6.5 9.7#

Manual Integrations

APPROVED

MMDadoda

6/10/2019 9:40:35 AM



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0

3.82

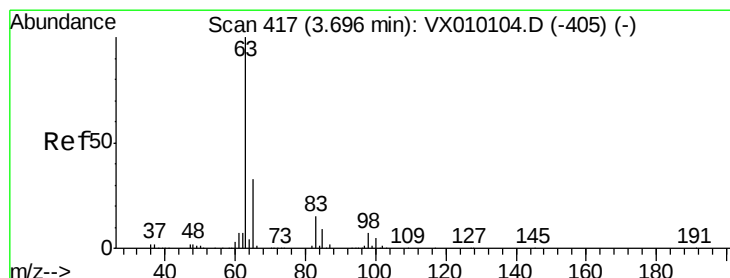
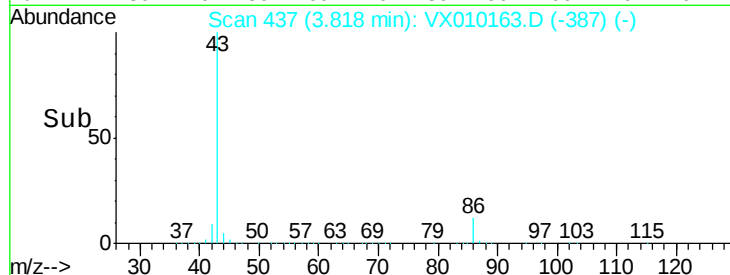
600000

400000

200000

0

Time-->



#24

1,1-Dichloroethane

Concen: 48.513 ug/l

RT: 3.70 min Scan# 417

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

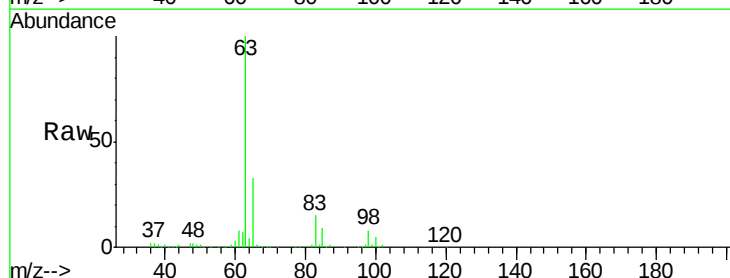
Tgt Ion: 63 Resp: 199287

Ion Ratio Lower Upper

63 100

98 7.7 2.9 8.8

100 5.0 1.8 5.4



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0

3.70

100000

80000

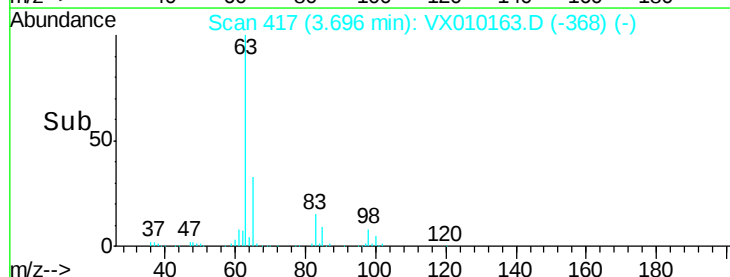
60000

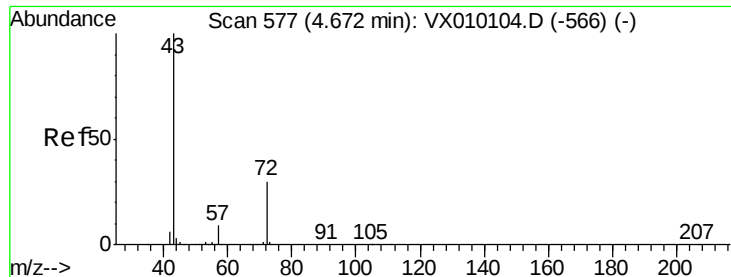
40000

20000

0

Time-->





#25

2-Butanone

Concen: 247.813 ug/l

RT: 4.68 min Scan# 578

Delta R.T. 0.01 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Instrument :

MSVOA_X

ClientSampleID :

VSTDCCC050EC

Tot Ion: 43 Resp: 442179

Ion Ratio Lower Upper

43 100

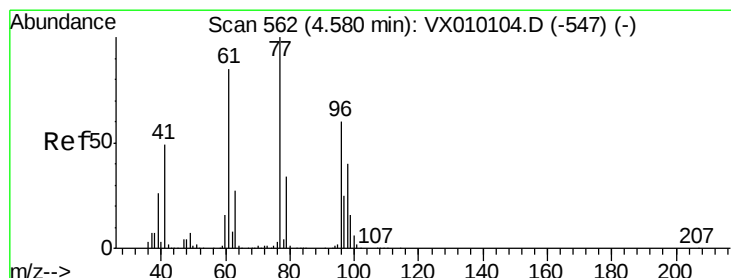
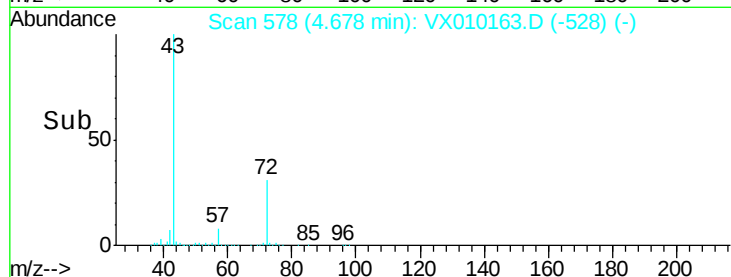
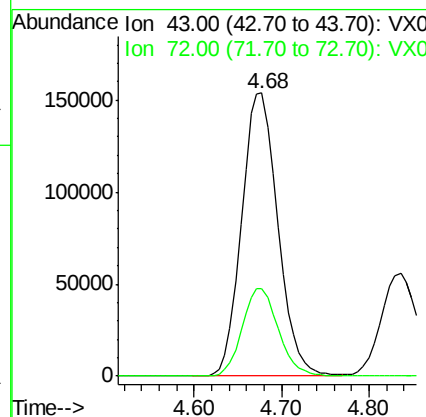
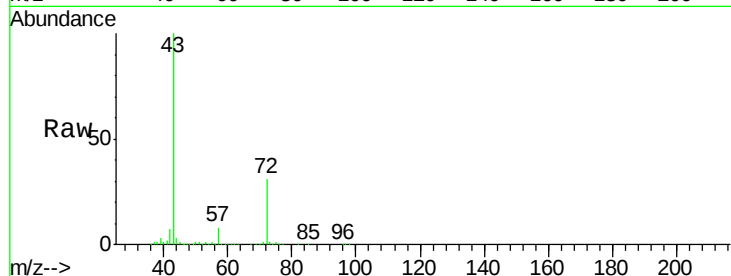
72 30.8 17.5 26.3#

Manual Integrations

APPROVED

MMDadoda

6/10/2019 9:40:35 AM



#26

2,2-Dichloropropane

Concen: 35.544 ug/l

RT: 4.59 min Scan# 563

Delta R.T. 0.01 min

Lab File: VX010163.D

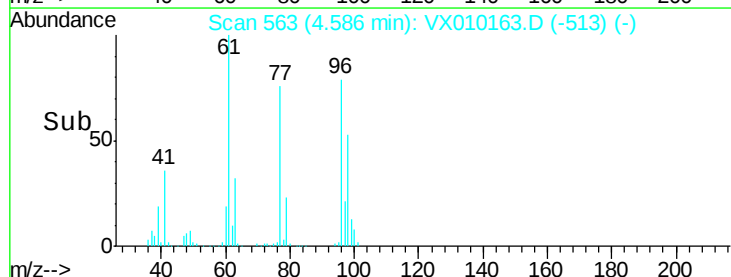
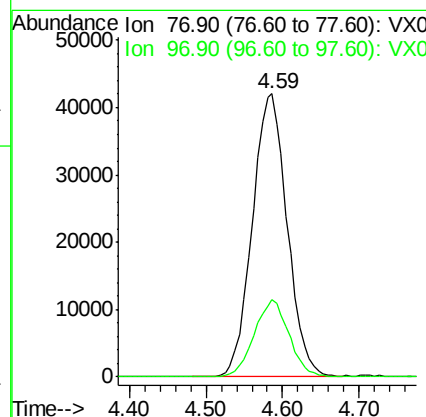
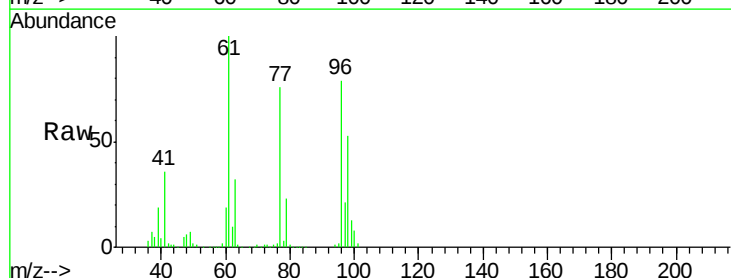
Acq: 09 Jun 2019 00:53

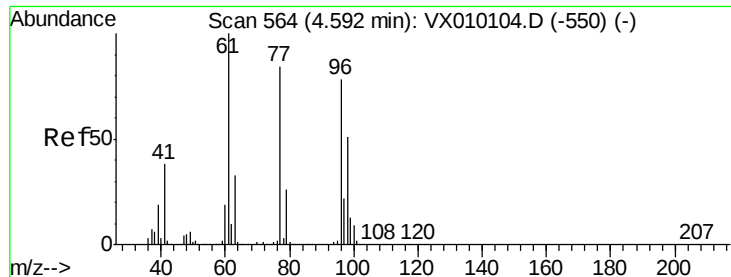
Tgt Ion: 77 Resp: 133203

Ion Ratio Lower Upper

77 100

97 27.3 11.4 34.2





#27

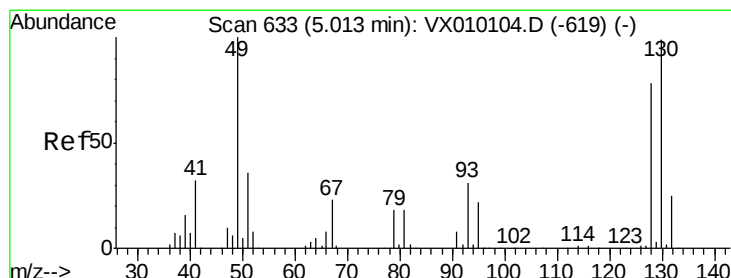
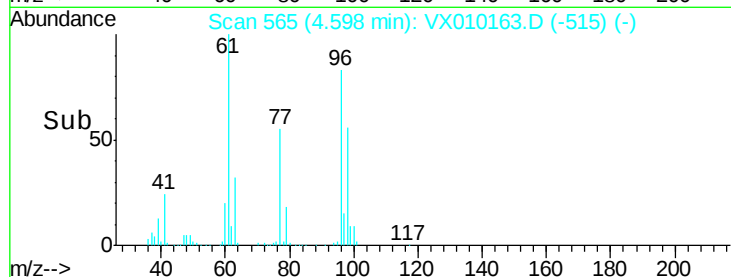
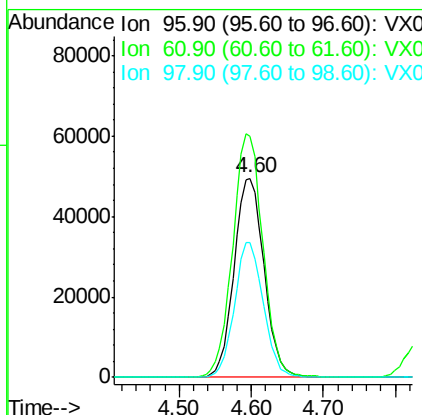
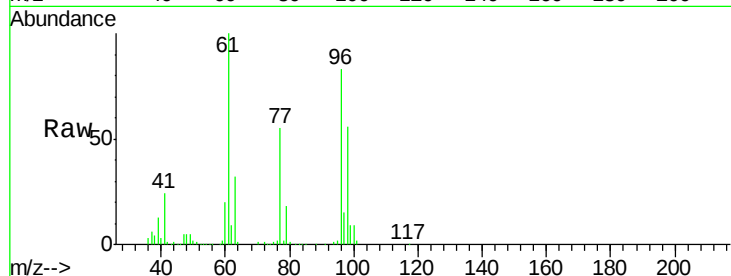
cis-1,2-Dichloroethene
Concen: 49.627 ug/l
RT: 4.60 min Scan# 565
Delta R.T. 0.01 min
Lab File: VX010163.D
Acq: 09 Jun 2019 00:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
96	100		
61	123.8	0.0	334.0
98	65.2	0.0	131.6

Manual Integrations
APPROVED

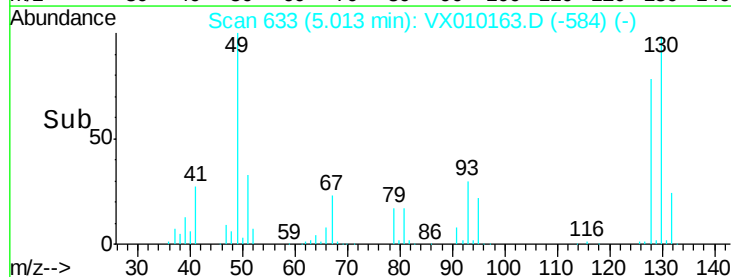
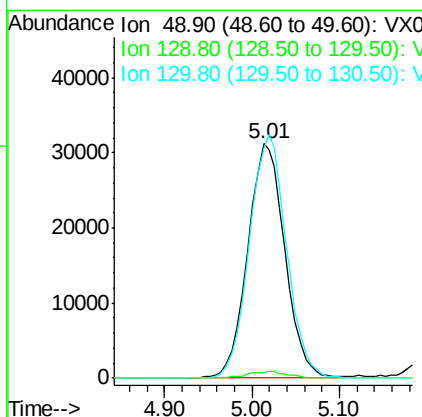
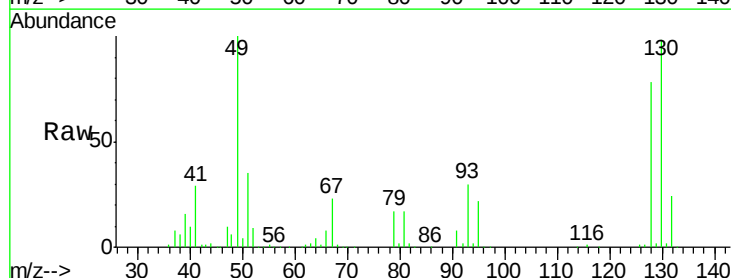
MMDadoda
6/10/2019 9:40:35 AM

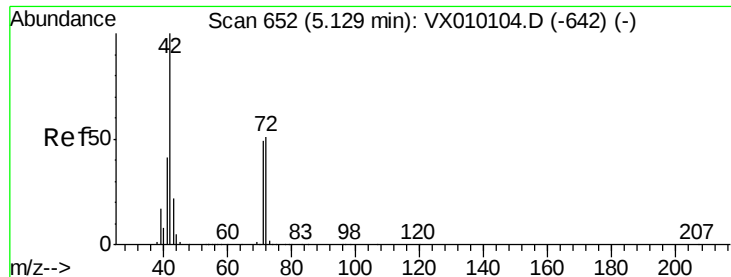


#28

Bromochloromethane
Concen: 50.170 ug/l
RT: 5.01 min Scan# 633
Delta R.T. -0.00 min
Lab File: VX010163.D
Acq: 09 Jun 2019 00:53

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.8	0.0	3.4
130	103.7	49.4	74.2#





#29

Tetrahydrofuran

Concen: 256.476 ug/l

RT: 5.13 min Scan# 652

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Instrument :

MSVOA_X

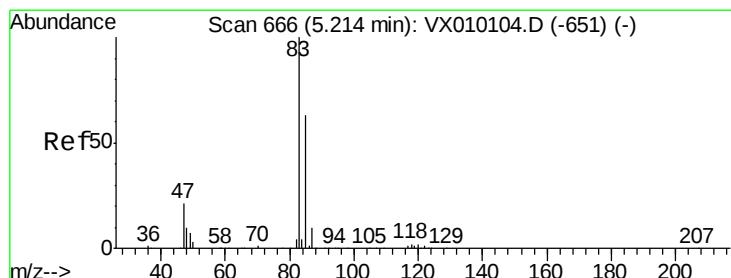
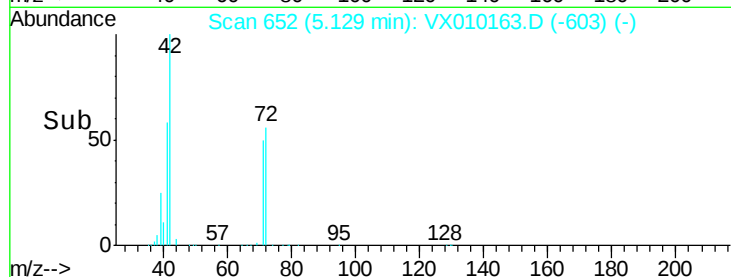
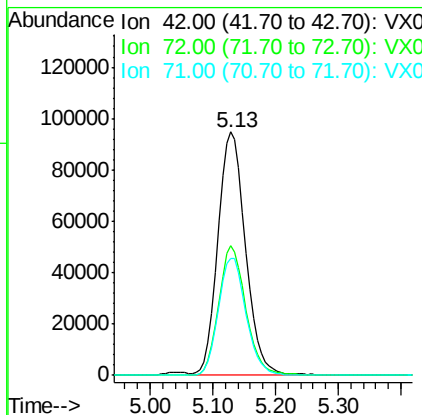
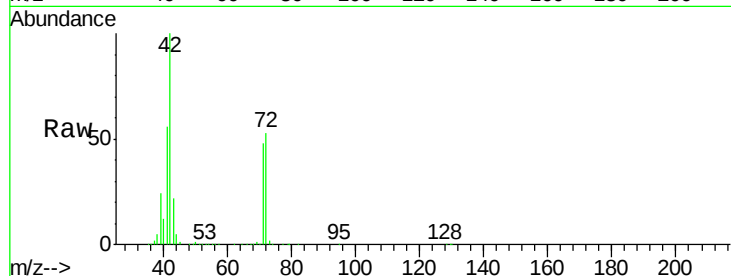
ClientSampleId :

VSTDCCC050EC

Tot Ion:	42	Resp:	287604
Ion	Ratio	Lower	Upper
42	100		
72	52.4	29.2	43.8#
71	48.7	27.6	41.4#

Manual Integrations
APPROVED

MMDadoda
6/10/2019 9:40:35 AM



#30

Chloroform

Concen: 49.127 ug/l

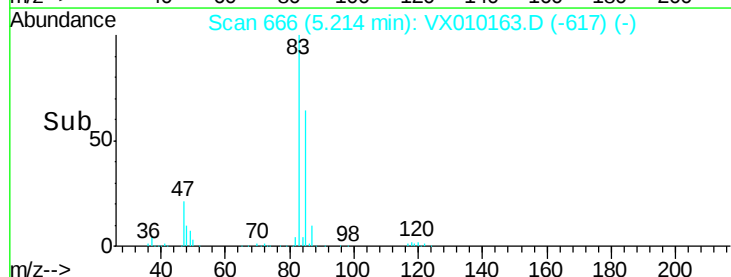
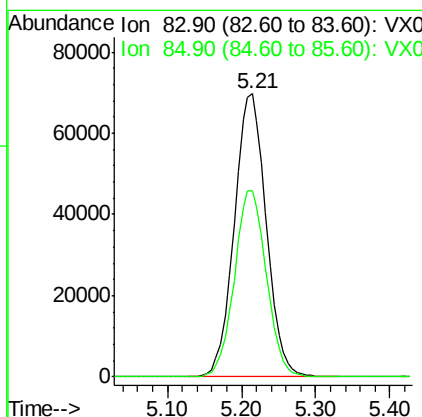
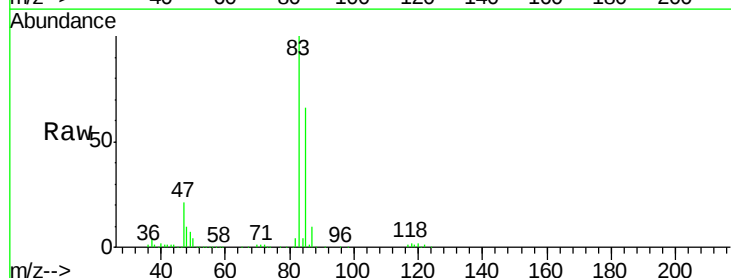
RT: 5.21 min Scan# 666

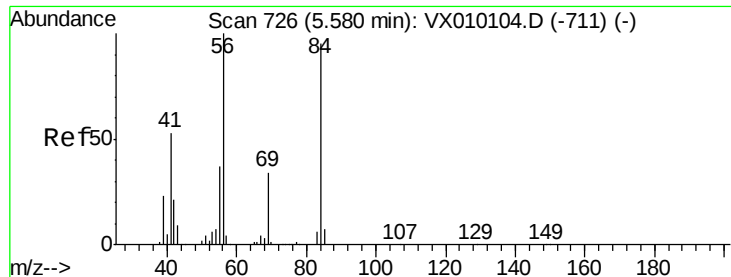
Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Tgt Ion:	83	Resp:	209587
Ion	Ratio	Lower	Upper
83	100		
85	65.7	52.6	78.8





#31

Cyclohexane

Concen: 50.400 ug/l

RT: 5.58 min Scan# 726

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Instrument :

MSVOA_X

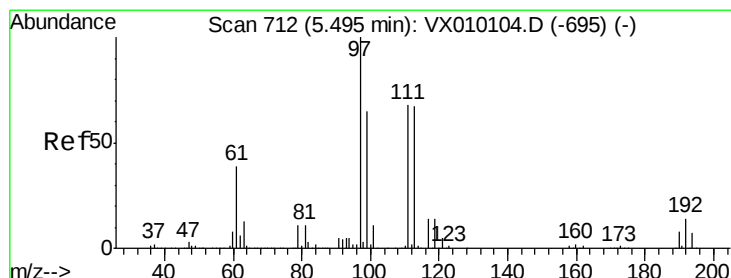
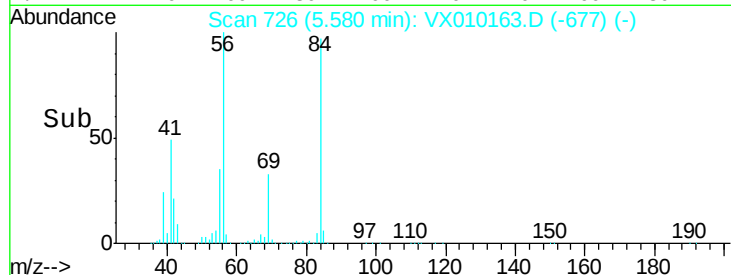
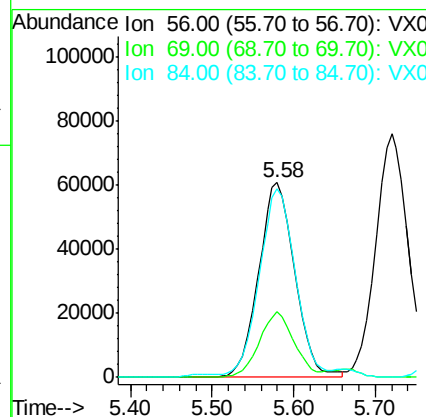
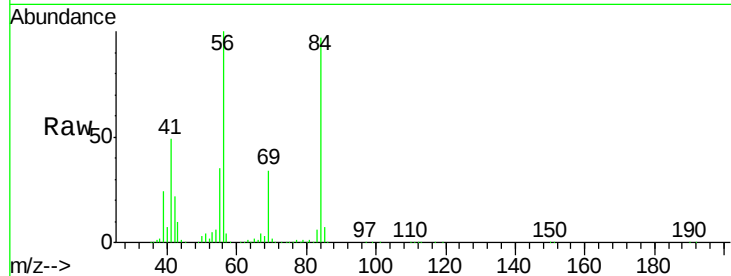
ClientSampleId :

VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
56	100		
69	33.5	21.6	32.4#
84	95.7	56.8	85.2#

Manual Integrations
APPROVED

MMDadoda
6/10/2019 9:40:35 AM



#32

1,1,1-Trichloroethane

Concen: 47.559 ug/l

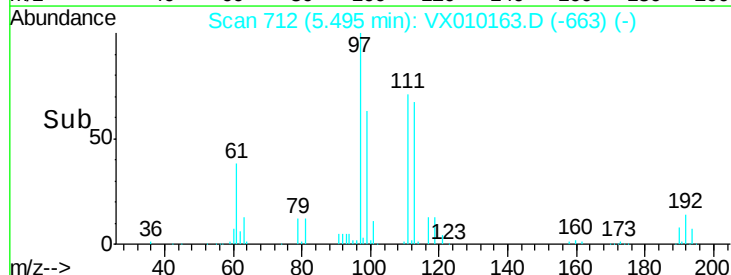
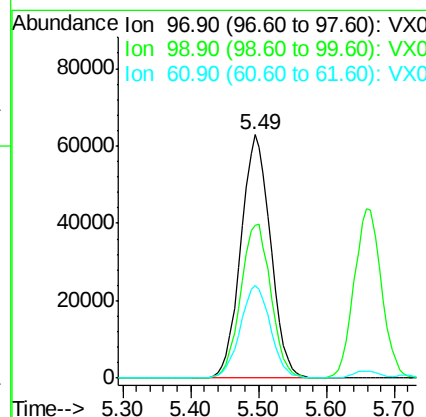
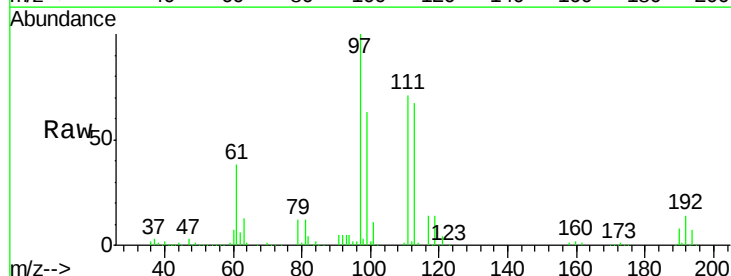
RT: 5.49 min Scan# 712

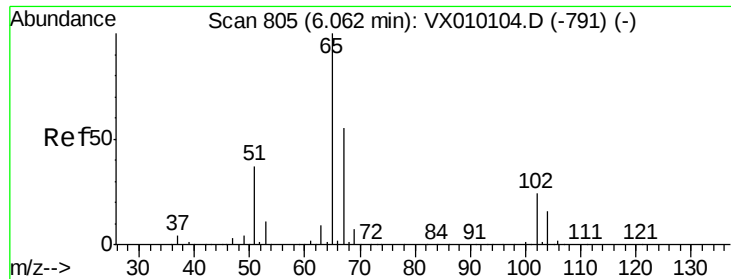
Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.0	76.4
61	38.8	38.7	58.1





#33

1,2-Dichloroethane-d4

Concen: 49.552 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion: 65 Resp: 126240

Ion Ratio Lower Upper

65 100

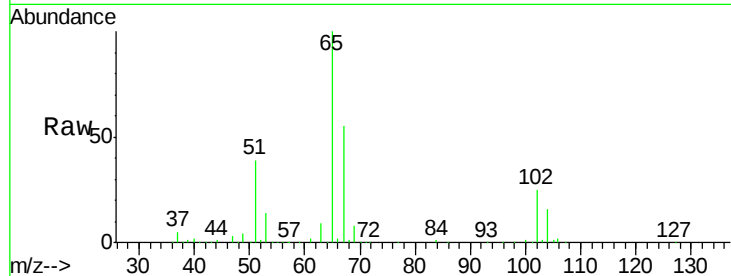
67 55.0 0.0 108.4

Manual Integrations

APPROVED

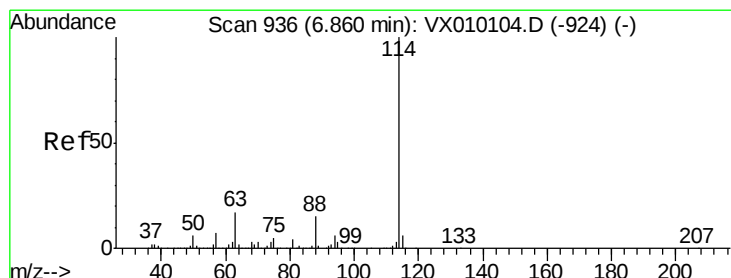
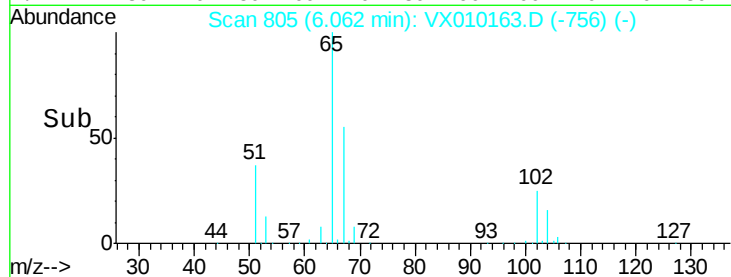
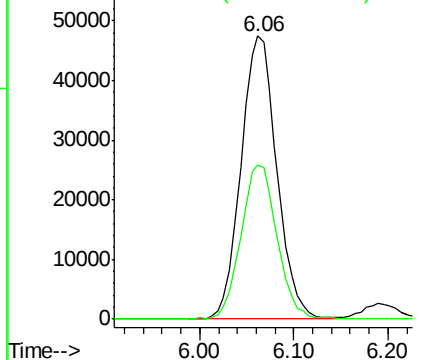
MMDadoda

6/10/2019 9:40:35 AM



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

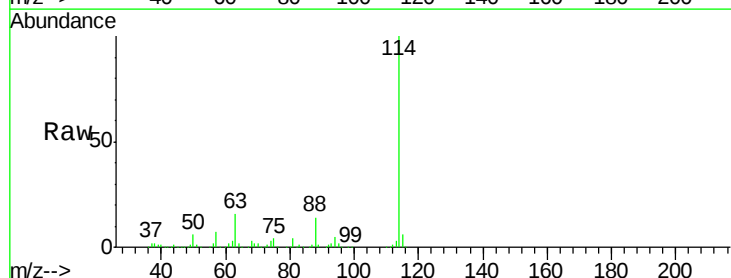
Tgt Ion: 114 Resp: 401907

Ion Ratio Lower Upper

114 100

63 16.0 0.0 47.4

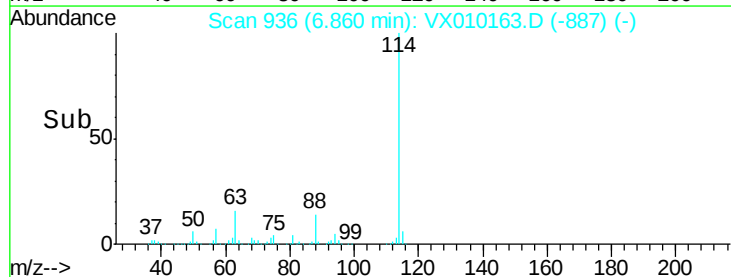
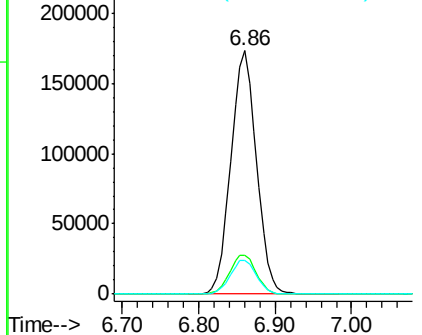
88 14.0 0.0 33.0

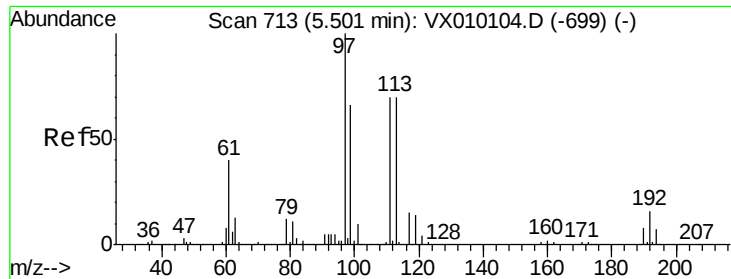


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 50.557 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Instrument :

MSVOA_X

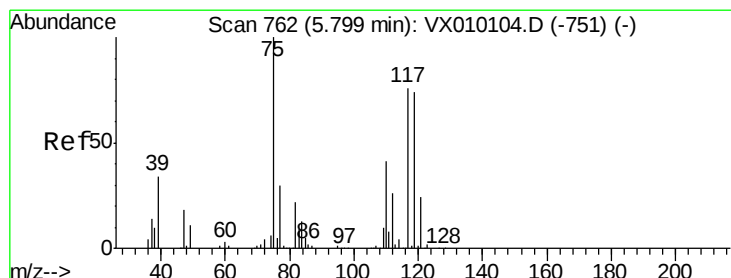
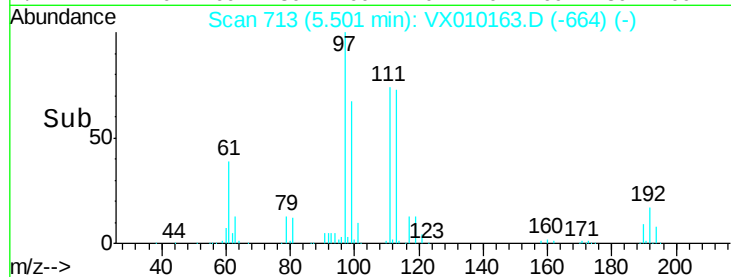
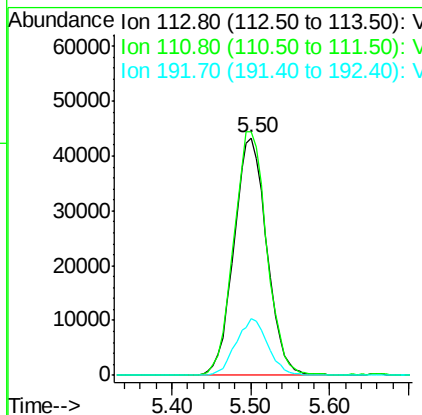
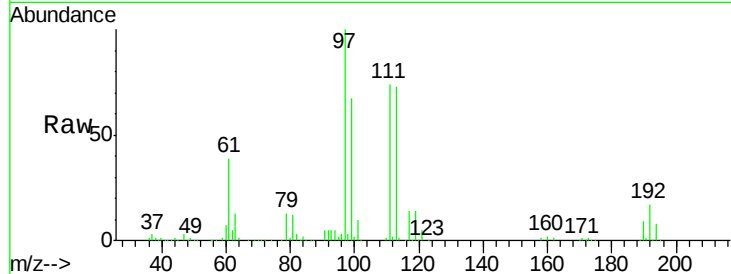
ClientSampleId :

VSTDCCC050EC

Tot Ion:	113	Resp:	125333
Ion Ratio	Lower	Upper	
113	100		
111	103.1	82.2	123.2
192	23.2	17.1	25.7

Manual Integrations
APPROVED

MMDadoda
6/10/2019 9:40:35 AM



#36

1,1-Dichloropropene

Concen: 47.202 ug/l

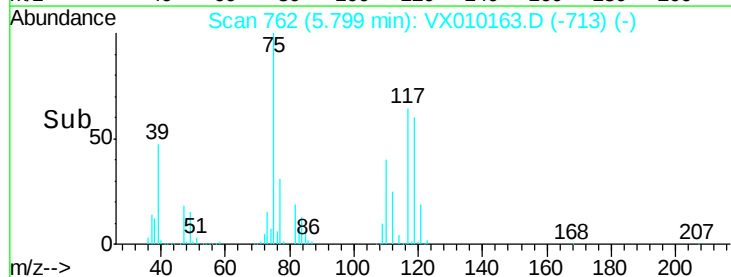
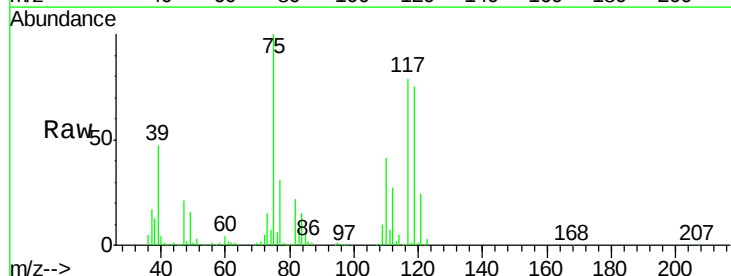
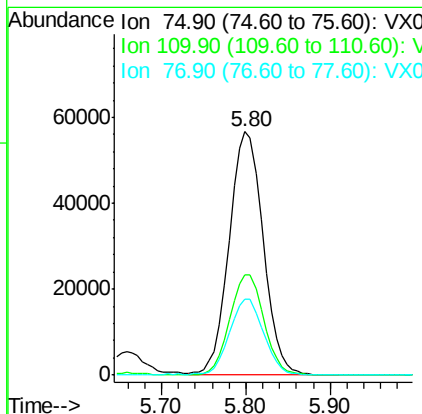
RT: 5.80 min Scan# 762

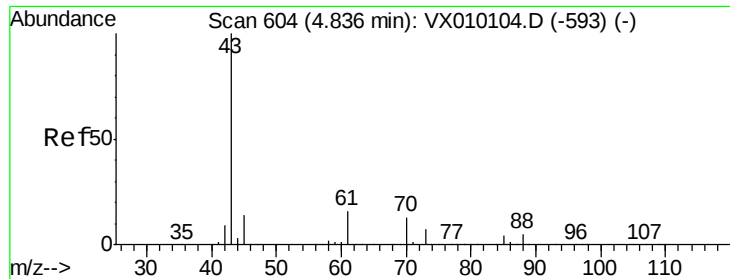
Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Tgt Ion:	75	Resp:	154773
Ion Ratio	Lower	Upper	
75	100		
110	41.5	16.7	50.1
77	31.1	25.0	37.4





#37

Ethyl Acetate

Concen: 48.641 ug/l

RT: 4.84 min Scan# 604

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 165946

Ion Ratio Lower Upper

43 100

61 16.2 10.2 15.2#

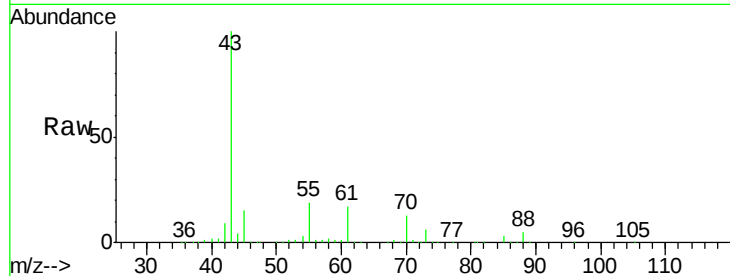
70 12.9 7.4 11.2#

Manual Integrations

APPROVED

MMDadoda

6/10/2019 9:40:35 AM

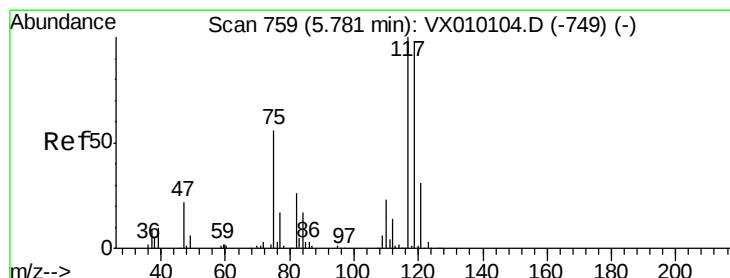
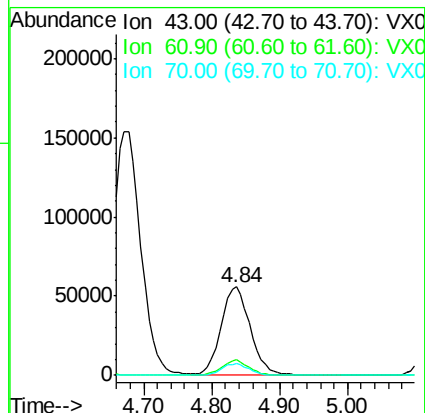
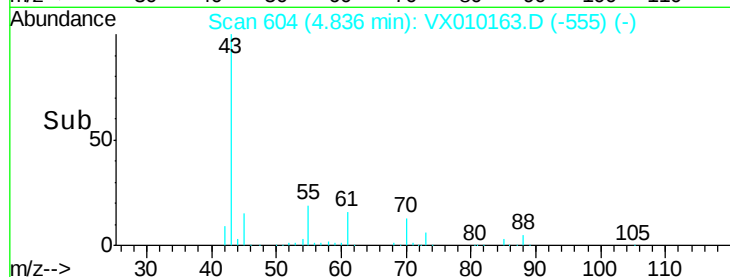


Abundance Ion 43.00 (42.70 to 43.70): VX010104.D (-593) (-)

Ion 60.90 (60.60 to 61.60): VX010104.D (-593) (-)

Ion 70.00 (69.70 to 70.70): VX010104.D (-593) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 47.235 ug/l

RT: 5.78 min Scan# 759

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

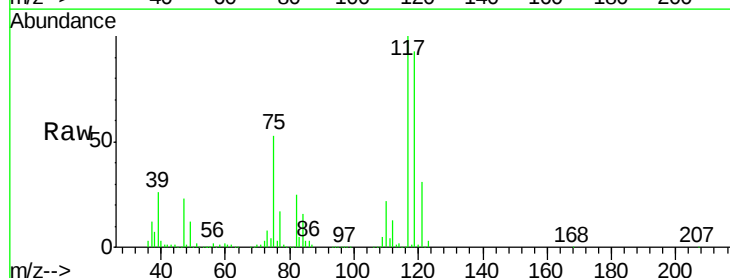
Tgt Ion: 117 Resp: 175307

Ion Ratio Lower Upper

117 100

119 93.2 77.3 115.9

121 30.9 25.4 38.0

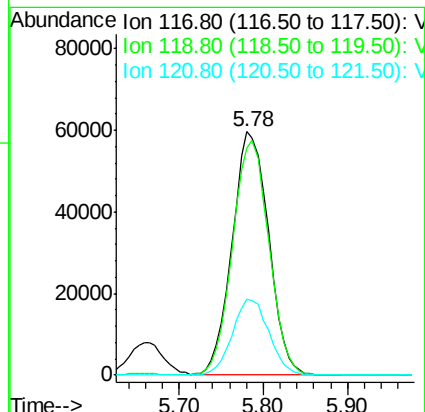
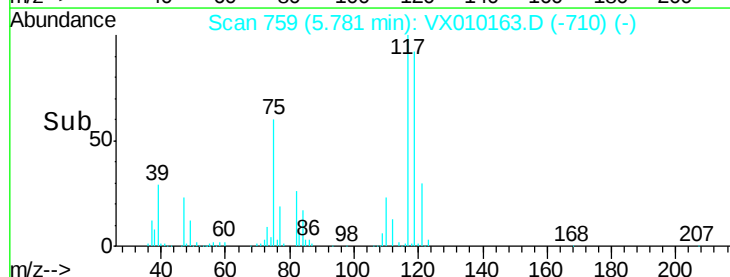


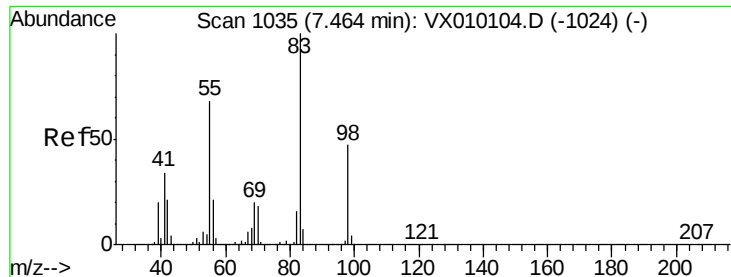
Abundance Ion 116.80 (116.50 to 117.50): VX010104.D (-749) (-)

Ion 118.80 (118.50 to 119.50): VX010104.D (-749) (-)

Ion 120.80 (120.50 to 121.50): VX010104.D (-749) (-)

Time-->





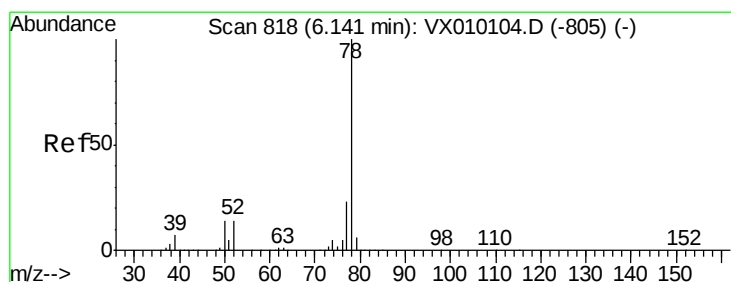
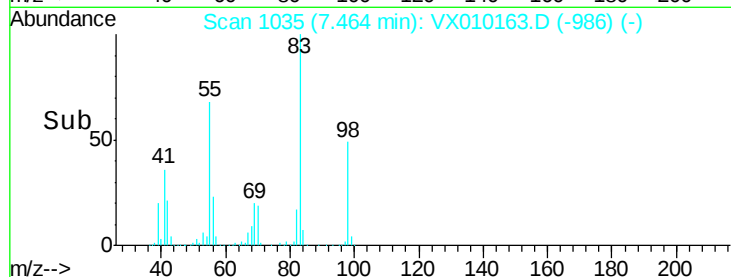
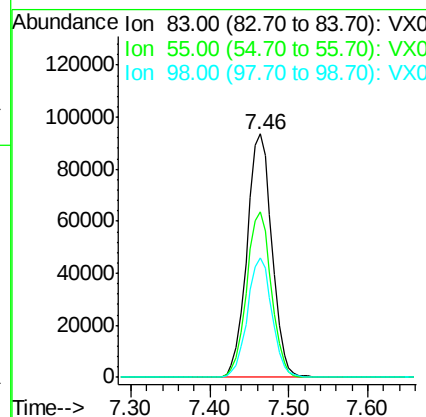
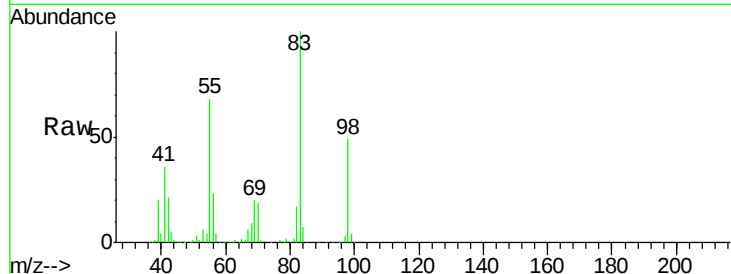
#39
Methylvlcyclohexane
Concen: 46.062 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. -0.00 min
Lab File: VX010163.D
Acq: 09 Jun 2019 00:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
83	100		
55	67.7	69.9	104.9#
98	49.0	35.1	52.7

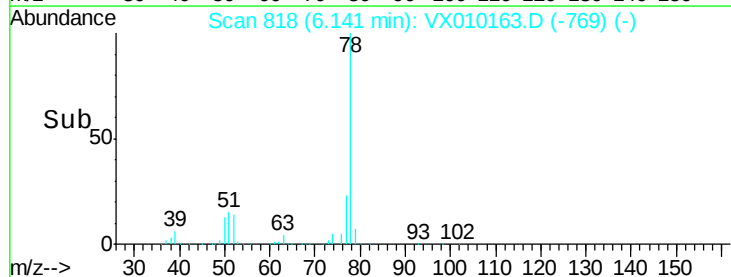
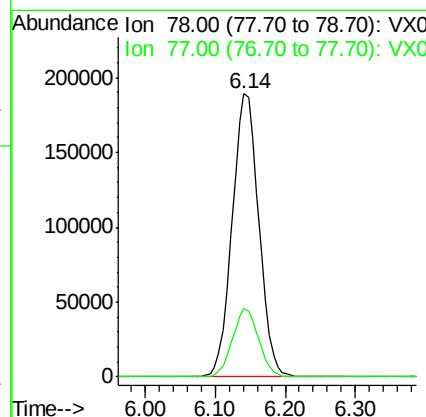
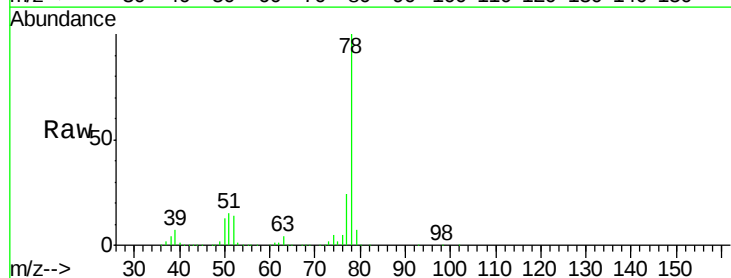
Manual Integrations
APPROVED

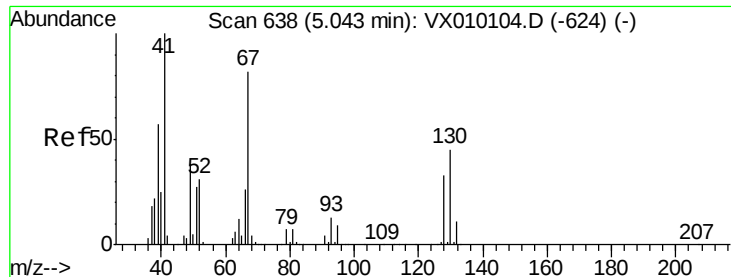
MMDadoda
6/10/2019 9:40:35 AM



#40
Benzene
Concen: 49.354 ug/l
RT: 6.14 min Scan# 818
Delta R.T. -0.00 min
Lab File: VX010163.D
Acq: 09 Jun 2019 00:53

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.2	28.8





#41

Methacrylonitrile

Concen: 49.299 ug/l

RT: 5.04 min Scan# 638

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion: 41 Resp: 90980

Ion Ratio Lower Upper

41 100

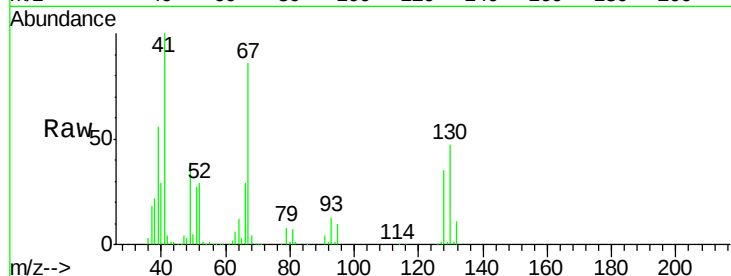
39 53.8 42.2 63.4

67 83.8 48.9 73.3#

52 30.2 20.1 30.1#

Manual Integrations
APPROVED

MMDadoda
6/10/2019 9:40:35 AM

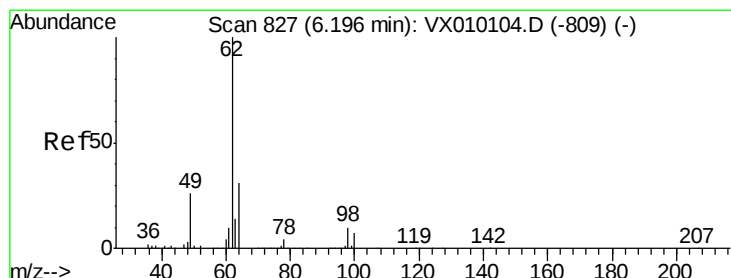
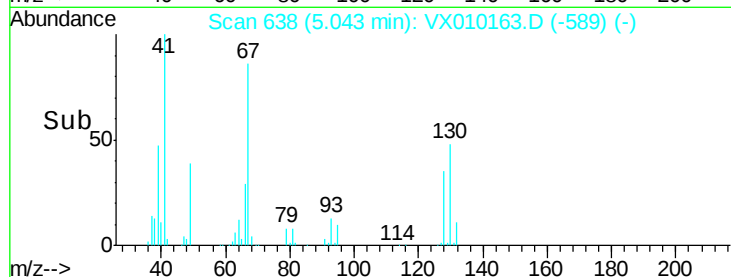
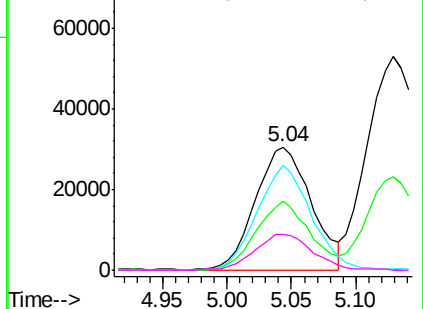


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#42

1,2-Dichloroethane

Concen: 47.039 ug/l

RT: 6.19 min Scan# 826

Delta R.T. -0.01 min

Lab File: VX010163.D

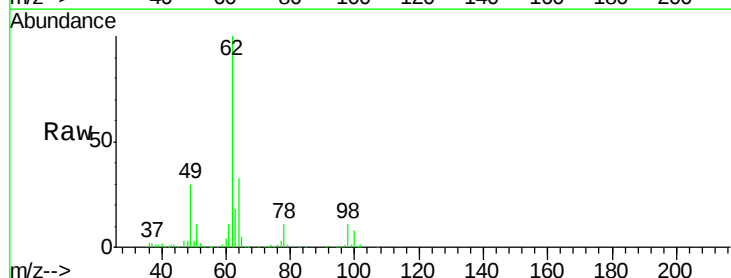
Acq: 09 Jun 2019 00:53

Tgt Ion: 62 Resp: 152263

Ion Ratio Lower Upper

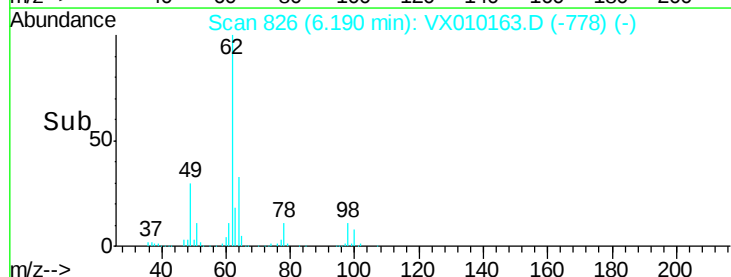
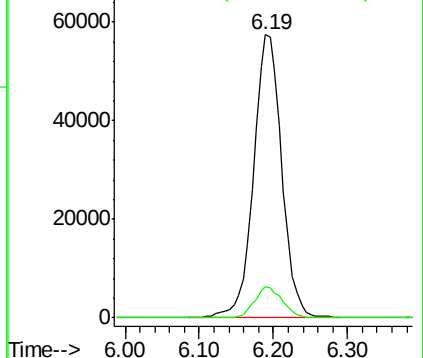
62 100

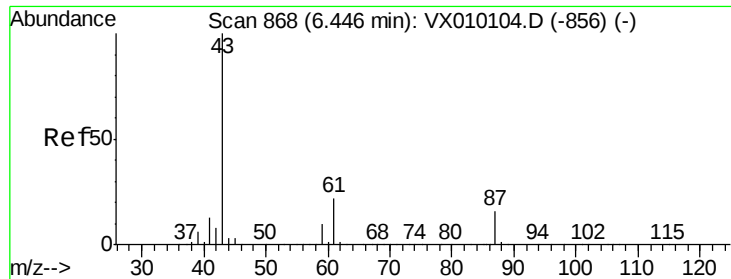
98 11.0 0.0 17.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#43

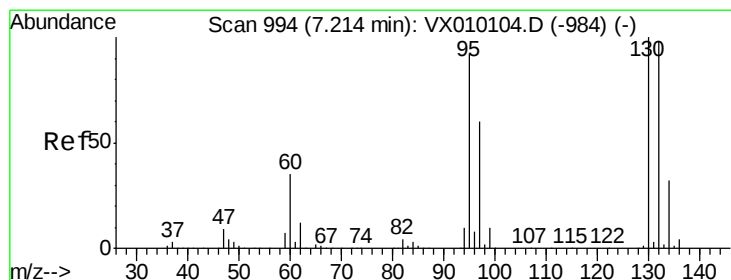
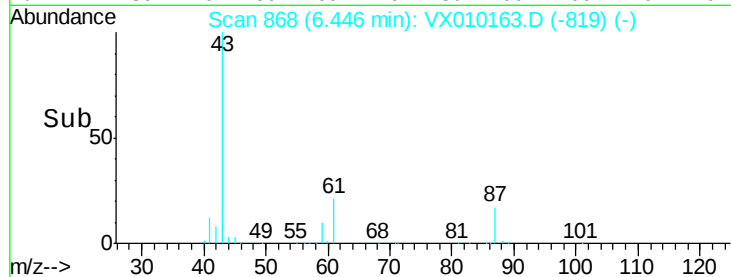
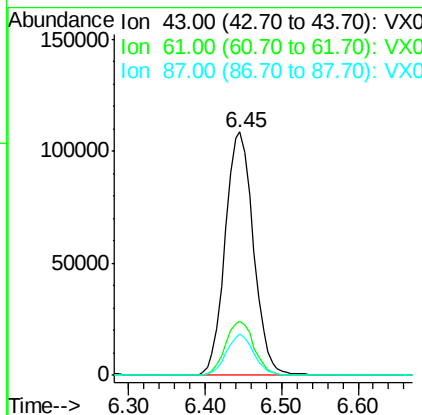
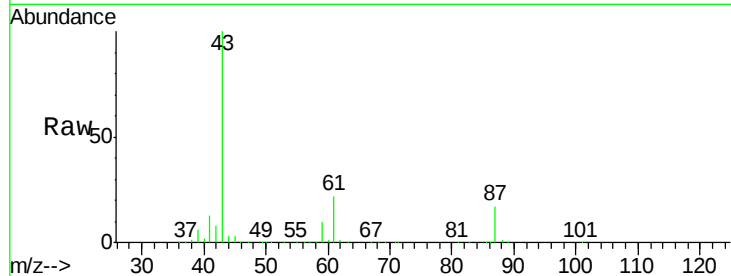
Isopropyl Acetate
 Concen: 48.448 ug/l
 RT: 6.45 min Scan# 868
 Delta R.T. -0.00 min
 Lab File: VX010163.D
 Acq: 09 Jun 2019 00:53

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	22.6	14.6	21.8#
87	16.4	8.7	13.1#

Manual Integrations
 APPROVED

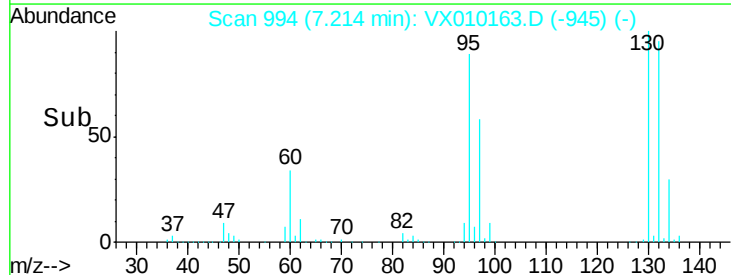
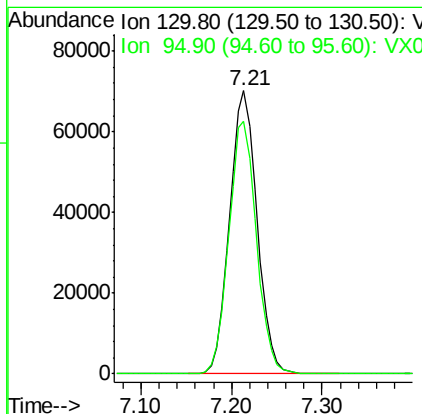
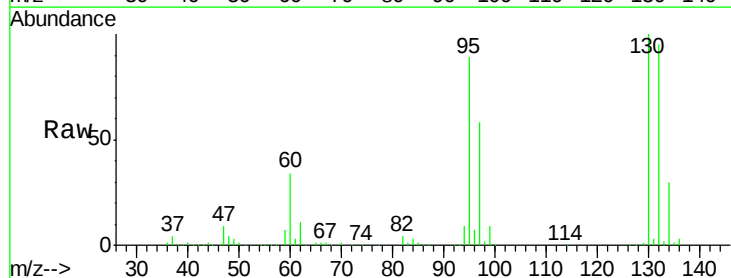
MMDadoda
 6/10/2019 9:40:35 AM

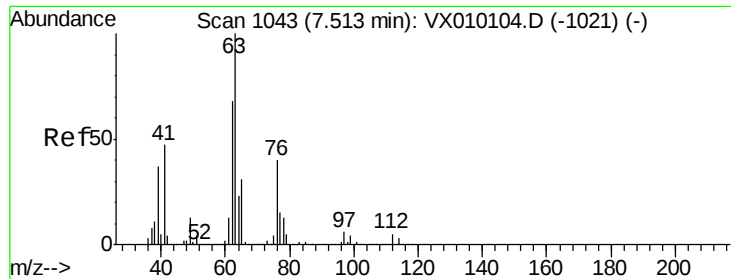


#44

Trichloroethene
 Concen: 48.441 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. -0.00 min
 Lab File: VX010163.D
 Acq: 09 Jun 2019 00:53

Tgt Ion	Ratio	Lower	Upper
130	100		
95	89.3	0.0	207.4





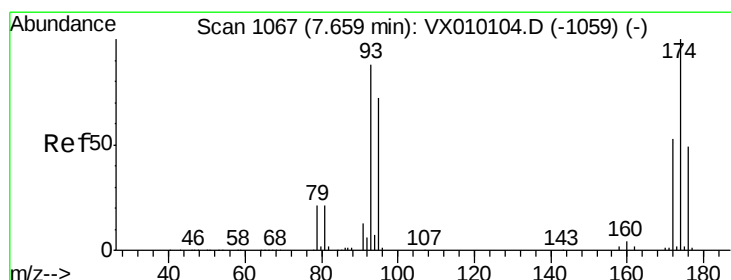
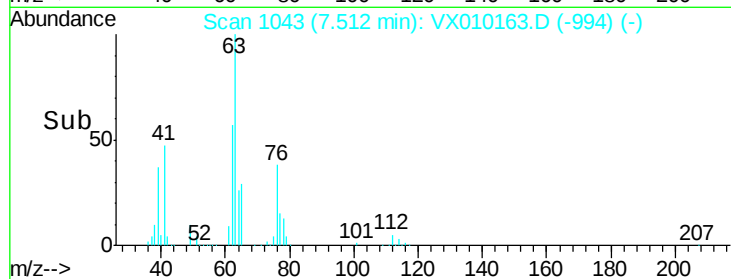
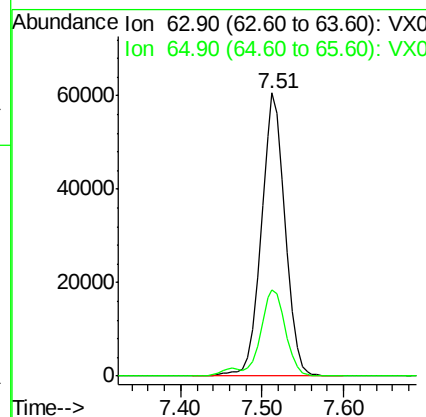
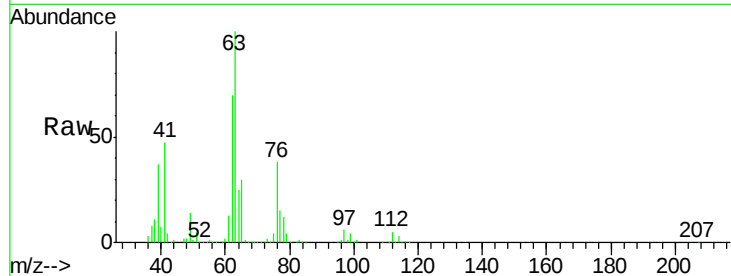
#45
 1,2-Dichloropropane
 Concen: 48.822 ug/l
 RT: 7.51 min Scan# 1043
 Delta R.T. -0.00 min
 Lab File: VX010163.D
 Acq: 09 Jun 2019 00:53

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.5	25.7	38.5

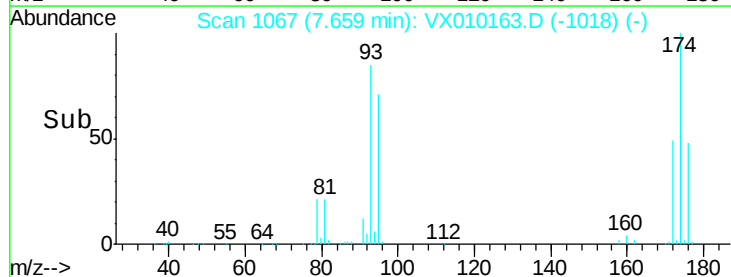
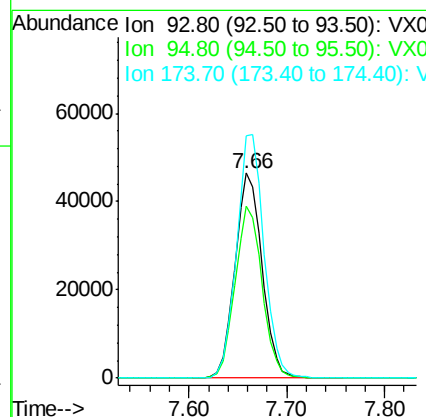
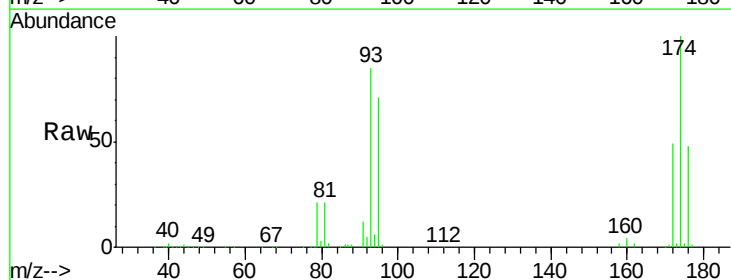
Manual Integrations
 APPROVED

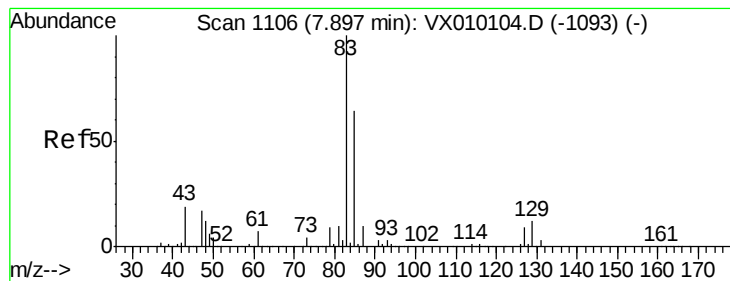
MMDadoda
 6/10/2019 9:40:35 AM



#46
 Dibromomethane
 Concen: 47.088 ug/l
 RT: 7.66 min Scan# 1067
 Delta R.T. -0.00 min
 Lab File: VX010163.D
 Acq: 09 Jun 2019 00:53

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.4	66.8	100.2
174	120.1	81.9	122.9





#47

Bromodichloromethane

Concen: 48.158 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion: 83 Resp: 171088

Ion Ratio Lower Upper

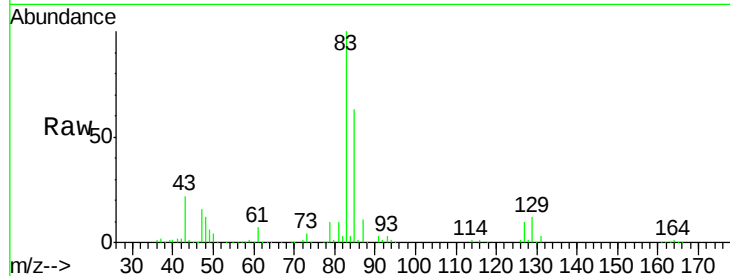
83 100

85 62.8 51.4 77.2

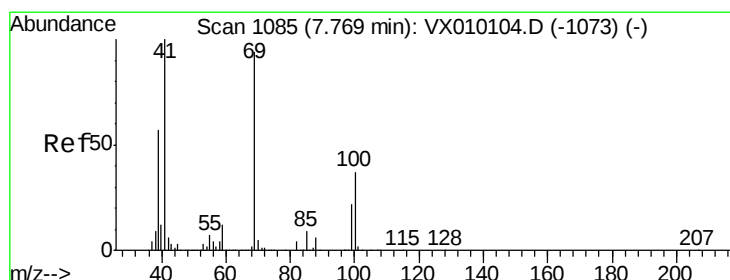
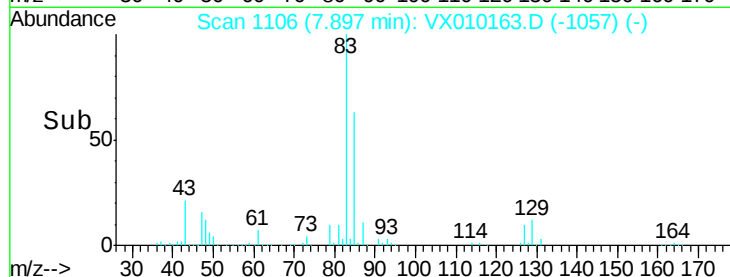
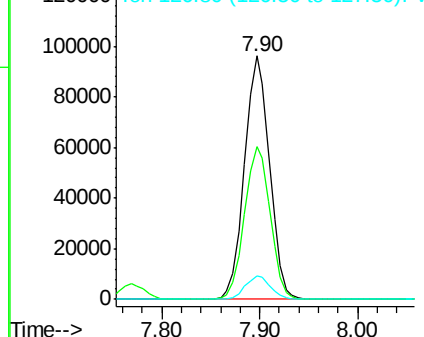
127 9.6 6.4 9.6#

Manual Integrations
APPROVED

MMDadoda
6/10/2019 9:40:35 AM



Abundance Ion 82.90 (82.60 to 83.60): VX0
Ion 84.90 (84.60 to 85.60): VX0
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 49.399 ug/l

RT: 7.77 min Scan# 1085

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

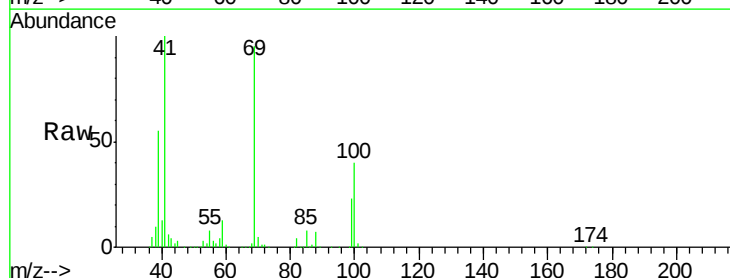
Tgt Ion: 41 Resp: 131782

Ion Ratio Lower Upper

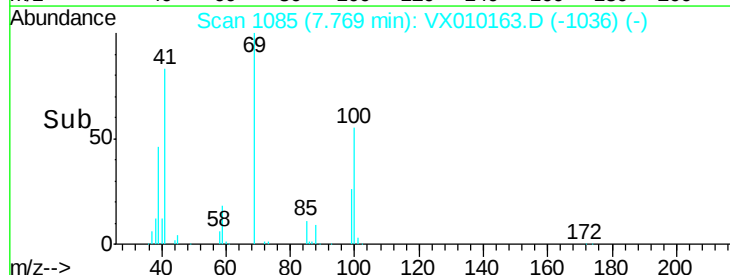
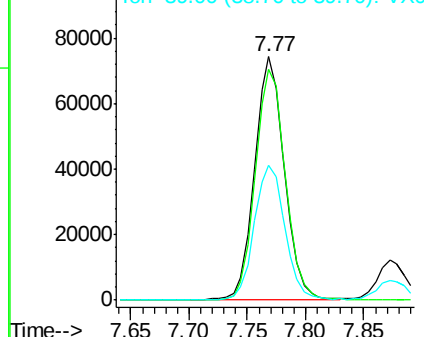
41 100

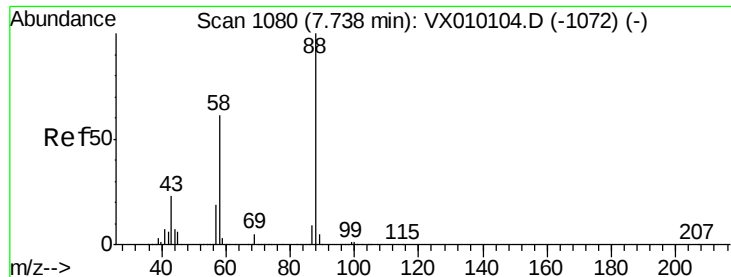
69 96.8 56.4 84.6#

39 56.9 40.6 60.8



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





#49

1,4-Dioxane

Concen: 1010.285 ug/l

RT: 7.74 min Scan# 1080

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Instrument :

MSVOA_X

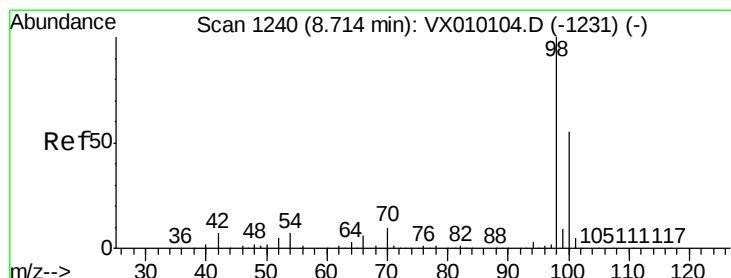
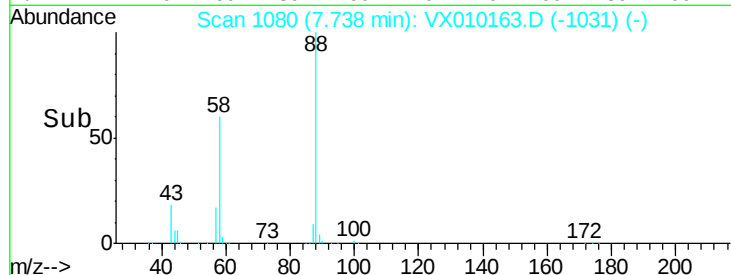
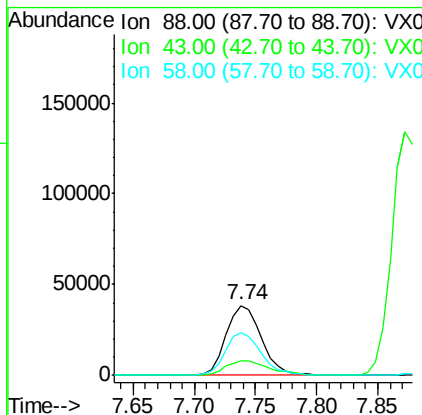
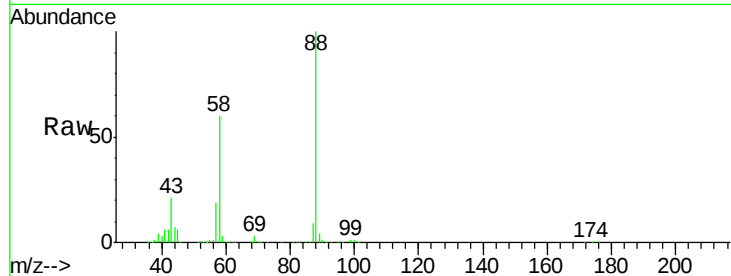
ClientSampleId :

VSTDCCC050EC

Tot Ion:	88	Resp:	76842
Ion	Ratio	Lower	Upper
88	100		
43	25.1	30.2	45.4#
58	62.6	64.0	96.0#

Manual Integrations
APPROVED

MMDadoda
6/10/2019 9:40:35 AM



#50

Toluene-d8

Concen: 51.441 ug/l

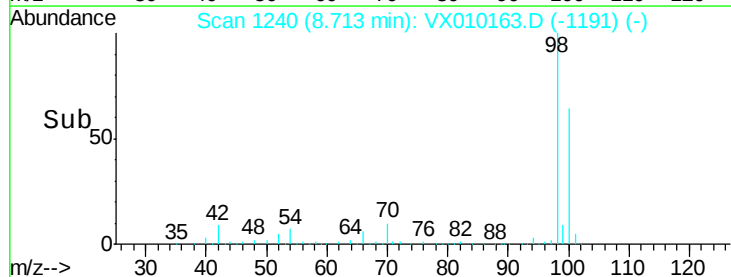
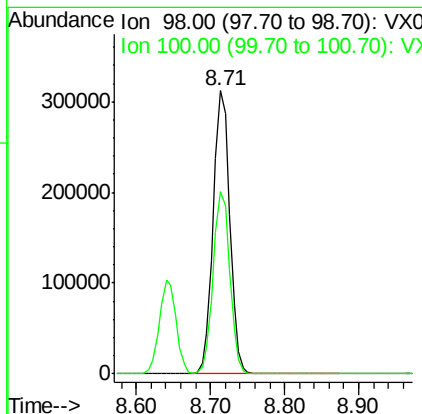
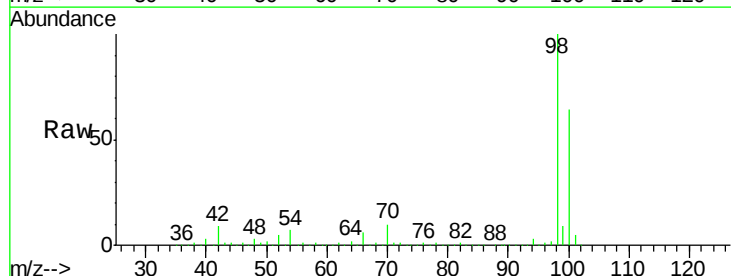
RT: 8.71 min Scan# 1240

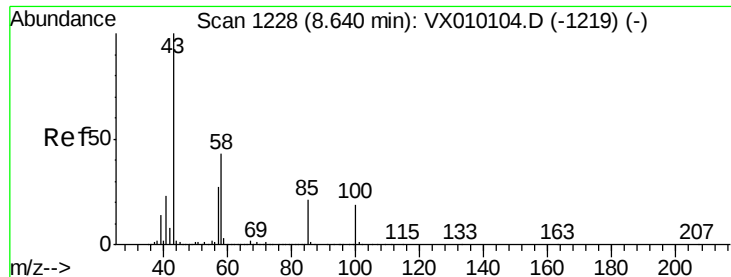
Delta R.T. 0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Tgt Ion:	98	Resp:	477944
Ion	Ratio	Lower	Upper
98	100		
100	64.8	51.5	77.3





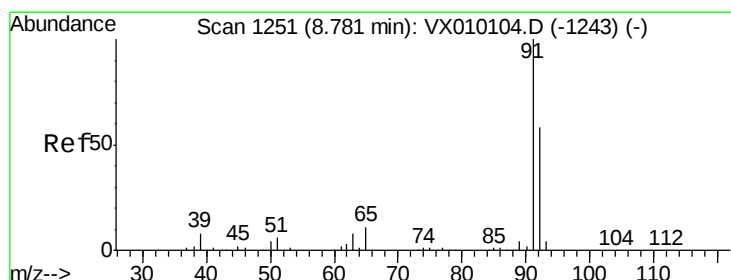
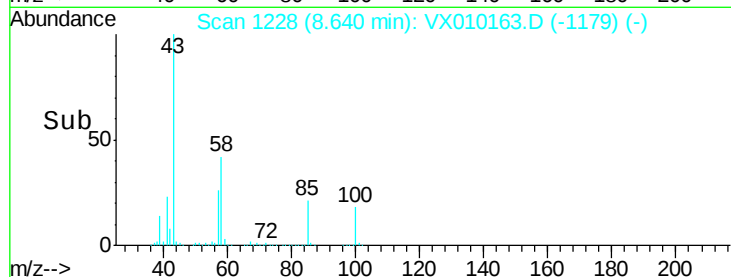
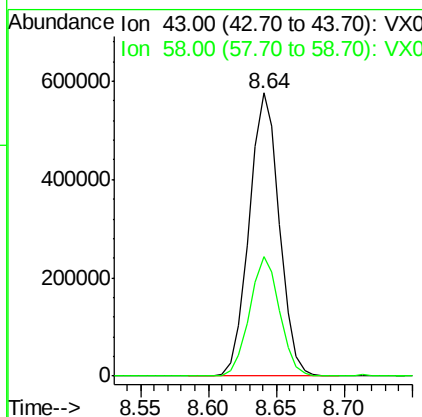
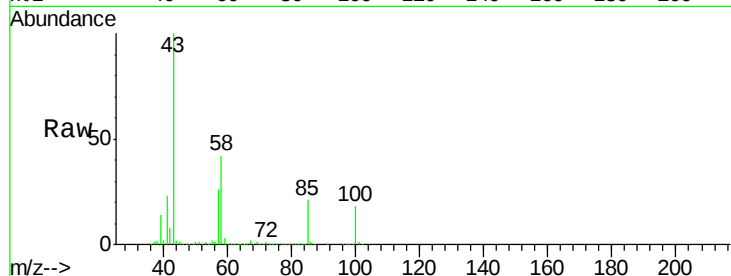
#51
4-Methyl-2-Pentanone
Concen: 263.015 ug/l
RT: 8.64 min Scan# 1228
Delta R.T. -0.00 min
Lab File: VX010163.D
Acq: 09 Jun 2019 00:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 896280
Ion Ratio Lower Upper
43 100
58 41.9 28.8 43.2

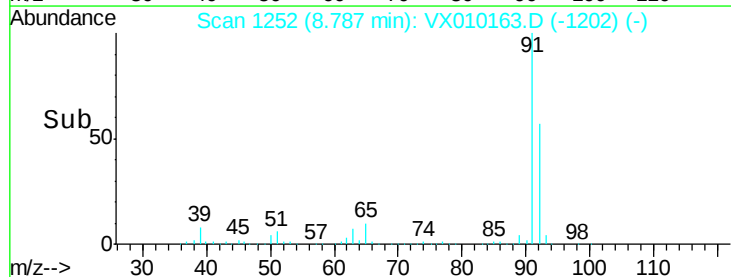
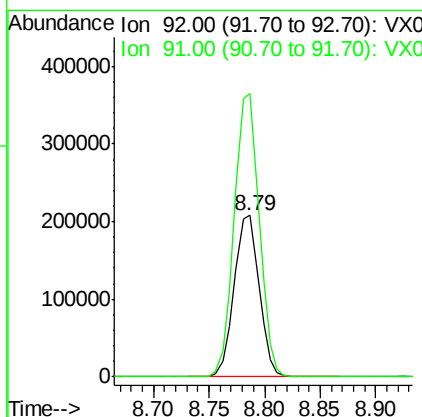
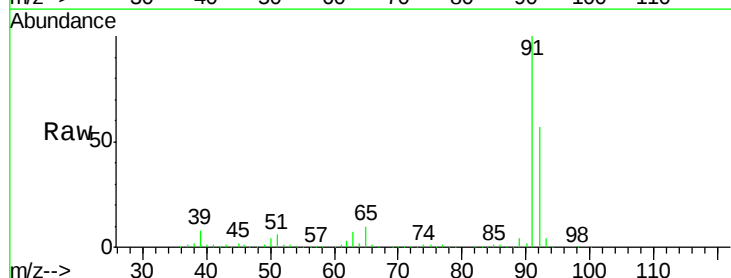
Manual Integrations
APPROVED

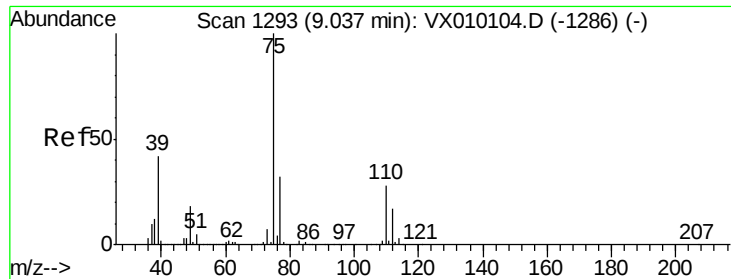
MMDadoda
6/10/2019 9:40:35 AM



#52
Toluene
Concen: 48.693 ug/l
RT: 8.79 min Scan# 1252
Delta R.T. 0.01 min
Lab File: VX010163.D
Acq: 09 Jun 2019 00:53

Tgt Ion: 92 Resp: 324533
Ion Ratio Lower Upper
92 100
91 175.5 139.9 209.9





#53

t-1,3-Dichloropropene

Concen: 45.277 ug/l

RT: 9.04 min Scan# 1294

Delta R.T. 0.01 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion: 75 Resp: 186053

Ion Ratio Lower Upper

75 100

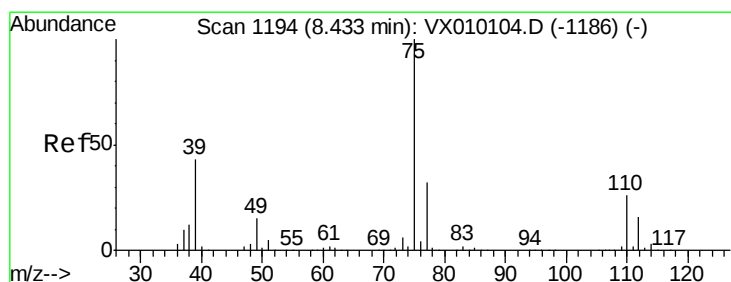
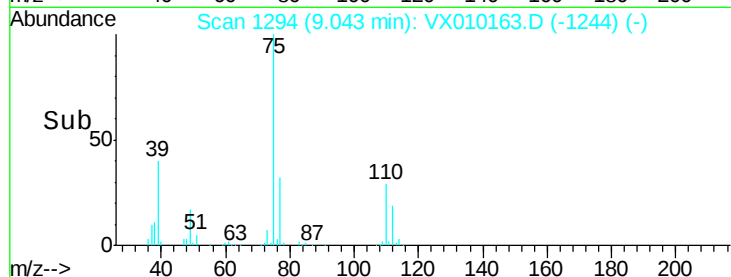
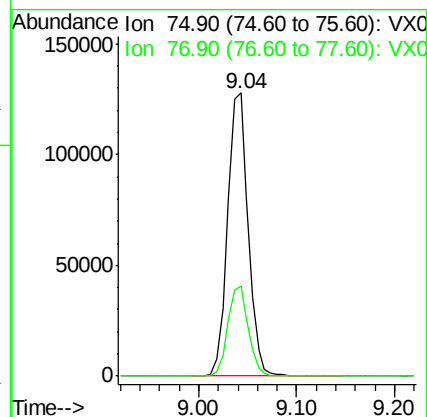
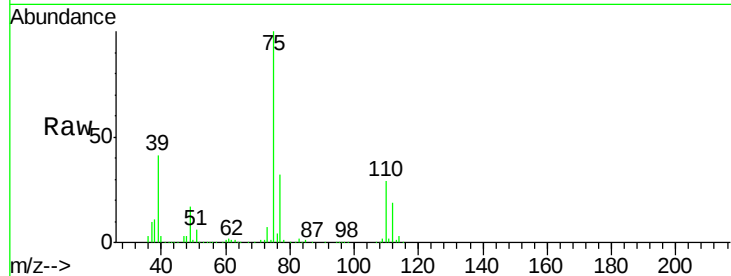
77 31.7 24.6 36.8

Manual Integrations

APPROVED

MMDadoda

6/10/2019 9:40:35 AM



#54

cis-1,3-Dichloropropene

Concen: 45.759 ug/l

RT: 8.43 min Scan# 1194

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

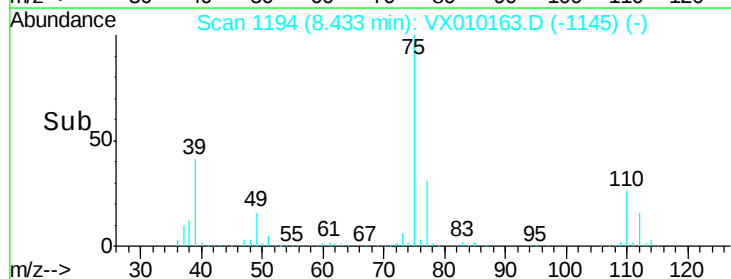
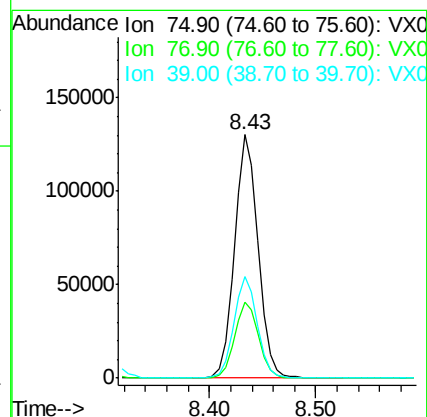
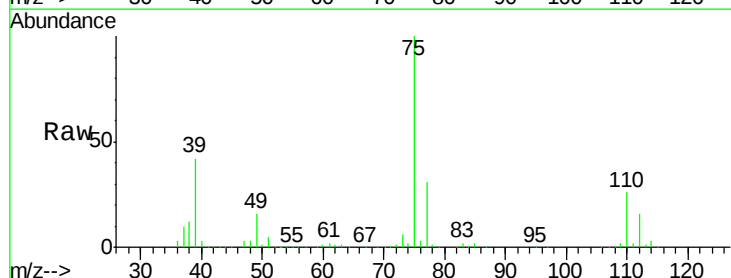
Tgt Ion: 75 Resp: 201581

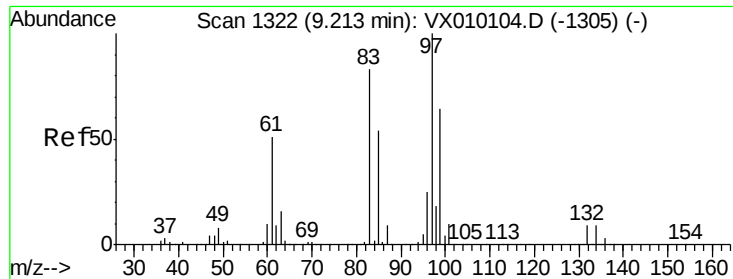
Ion Ratio Lower Upper

75 100

77 31.2 24.8 37.2

39 41.5 43.4 65.0#





#55

1,1,2-Trichloroethane

Concen: 50.304 ug/l

RT: 9.21 min Scan# 1322

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion: 97 Resp: 137308

Ion Ratio Lower Upper

97 100

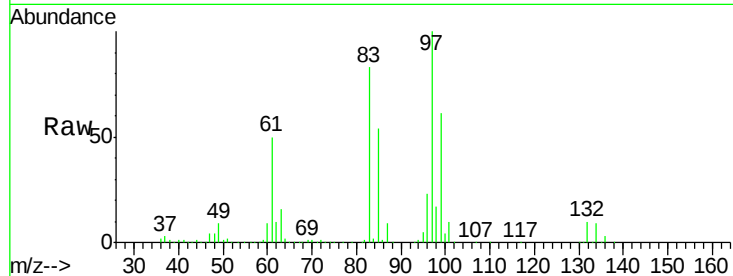
83 82.9 69.8 104.8

85 53.6 45.3 67.9

99 61.2 49.0 73.4

Manual Integrations
APPROVED

MMDadoda
6/10/2019 9:40:35 AM

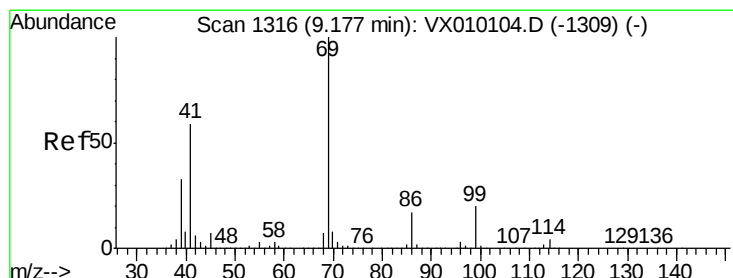
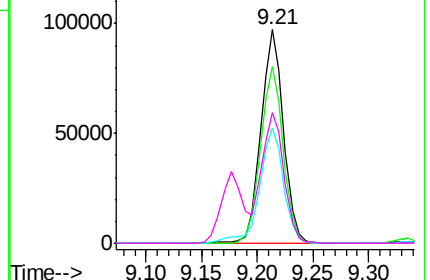
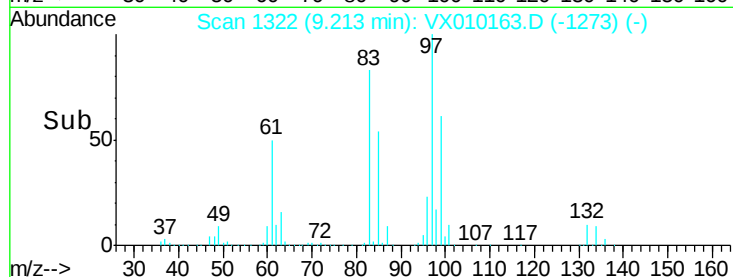


Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0



#56

Ethyl methacrylate

Concen: 50.107 ug/l

RT: 9.18 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

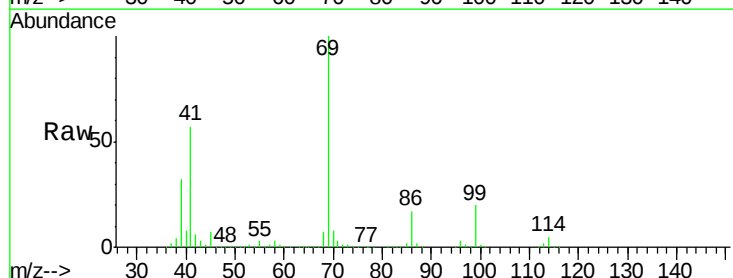
Tgt Ion: 69 Resp: 216050

Ion Ratio Lower Upper

69 100

41 57.8 62.7 94.1#

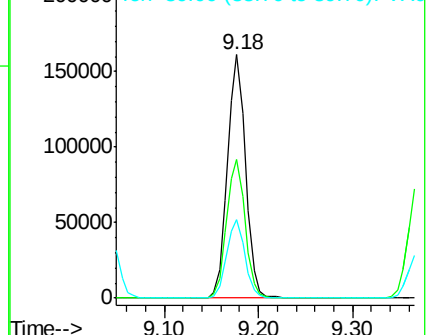
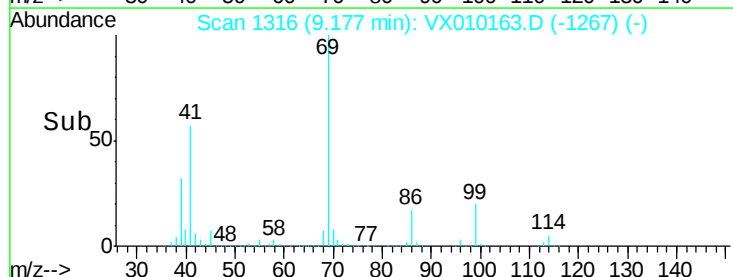
39 32.1 29.5 44.3

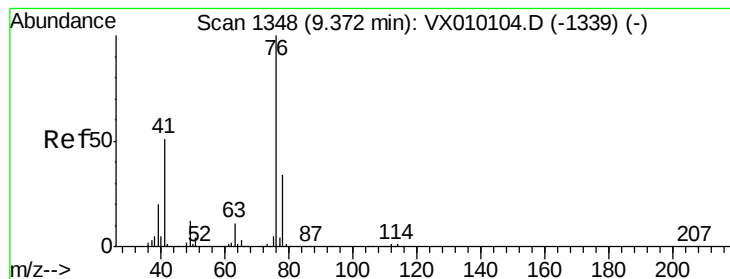


Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#57

1,3-Dichloropropane

Concen: 49.626 ug/l

RT: 9.37 min Scan# 1348

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion: 76 Resp: 213257

Ion Ratio Lower Upper

76 100

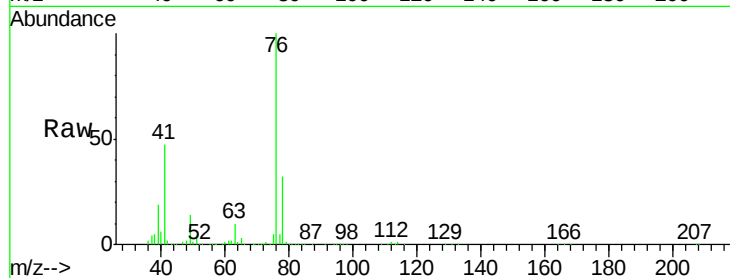
78 32.2 25.4 38.0

Manual Integrations

APPROVED

MMDadoda

6/10/2019 9:40:35 AM



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

9.37

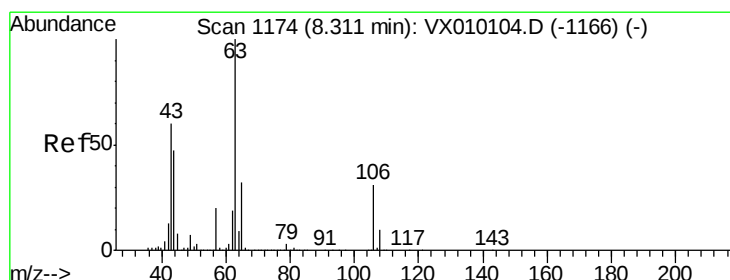
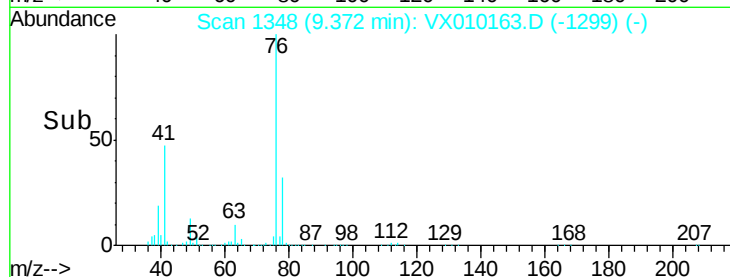
150000

100000

50000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 246.955 ug/l

RT: 8.31 min Scan# 1174

Delta R.T. -0.00 min

Lab File: VX010163.D

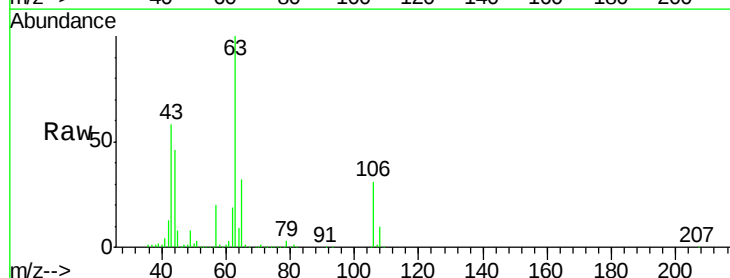
Acq: 09 Jun 2019 00:53

Tgt Ion: 63 Resp: 501979

Ion Ratio Lower Upper

63 100

106 31.3 19.4 29.2#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V

8.31

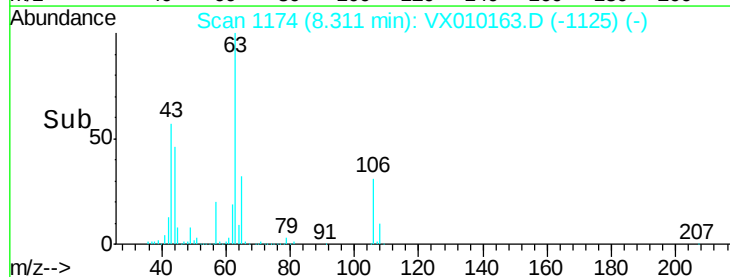
300000

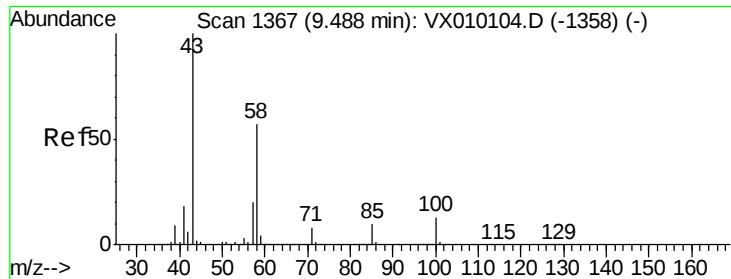
200000

100000

0

Time-->





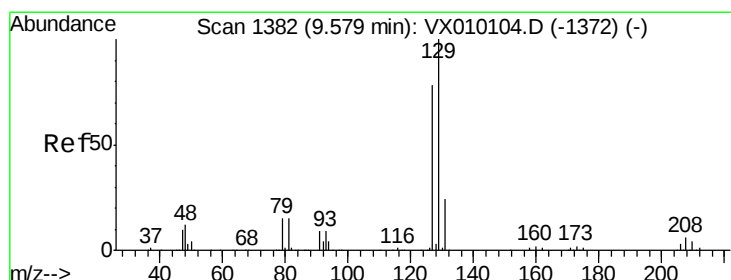
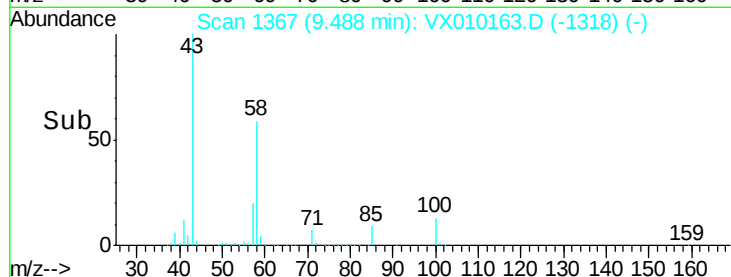
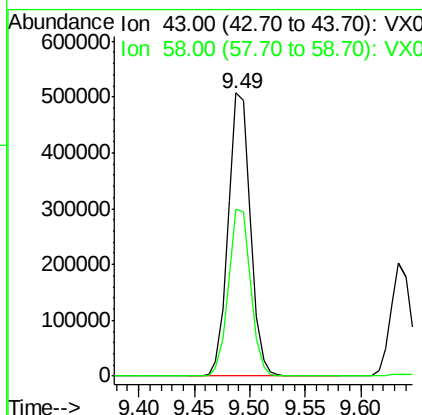
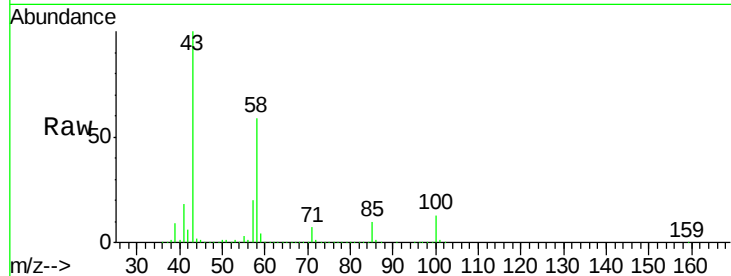
#59
2-Hexanone
Concen: 256.988 ug/l
RT: 9.49 min Scan# 1367
Delta R.T. -0.00 min
Lab File: VX010163.D
Acq: 09 Jun 2019 00:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 698240
Ion Ratio Lower Upper
43 100
58 59.3 25.1 75.3

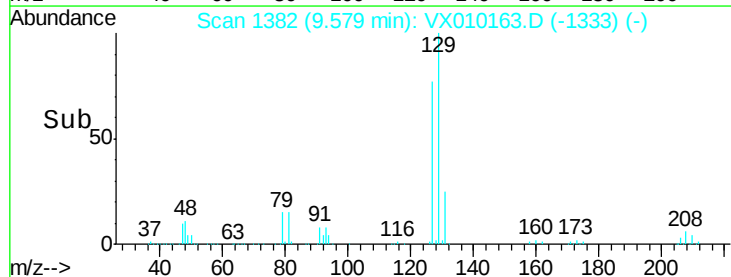
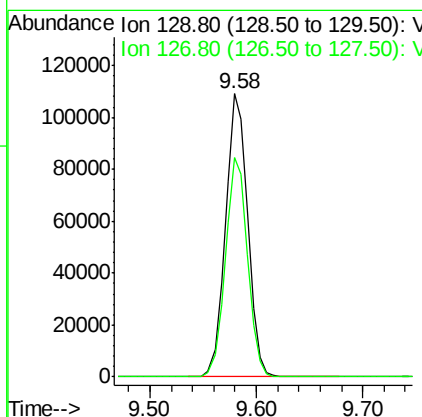
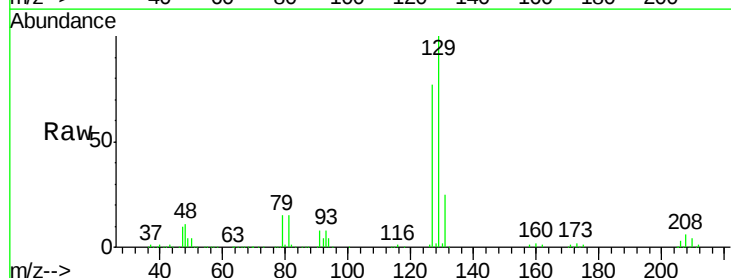
Manual Integrations
APPROVED

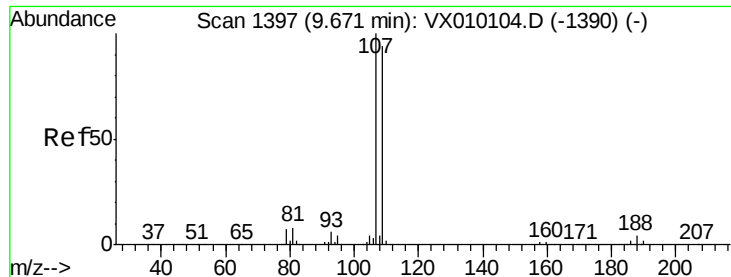
MMDadoda
6/10/2019 9:40:35 AM



#60
Dibromochloromethane
Concen: 49.199 ug/l
RT: 9.58 min Scan# 1382
Delta R.T. -0.00 min
Lab File: VX010163.D
Acq: 09 Jun 2019 00:53

Tgt Ion: 129 Resp: 158843
Ion Ratio Lower Upper
129 100
127 77.3 38.5 115.5





#61

1,2-Dibromoethane

Concen: 49.126 ug/l

RT: 9.67 min Scan# 1397

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion: 107 Resp: 149346

Ion Ratio Lower Upper

107 100

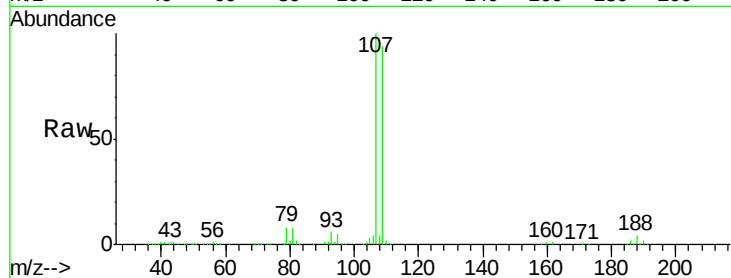
109 94.8 75.4 113.2

Manual Integrations

APPROVED

MMDadoda

6/10/2019 9:40:35 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

9.67

120000

100000

80000

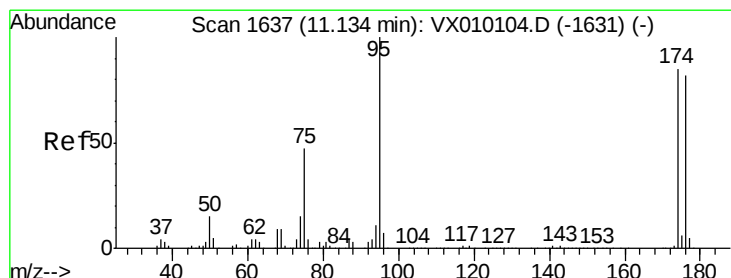
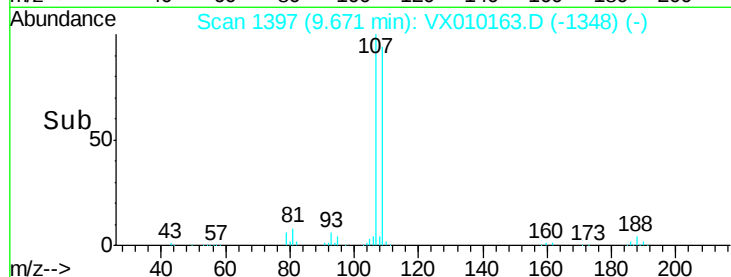
60000

40000

20000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 51.776 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

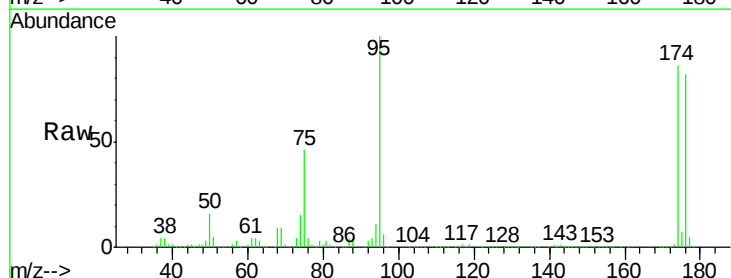
Tgt Ion: 95 Resp: 179655

Ion Ratio Lower Upper

95 100

174 92.0 0.0 160.4

176 88.8 0.0 154.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

200000

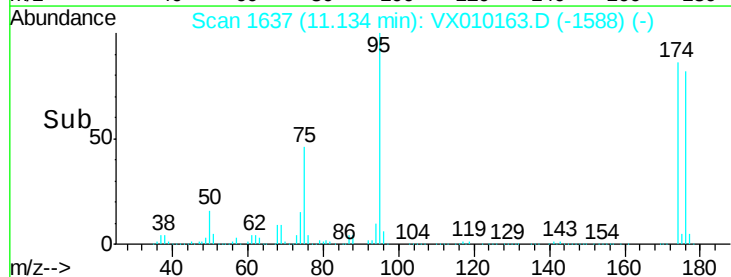
150000

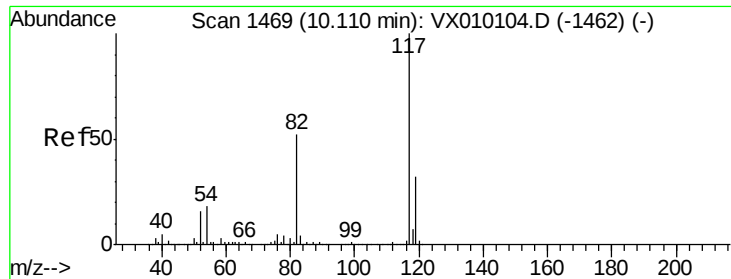
100000

50000

0

Time-->





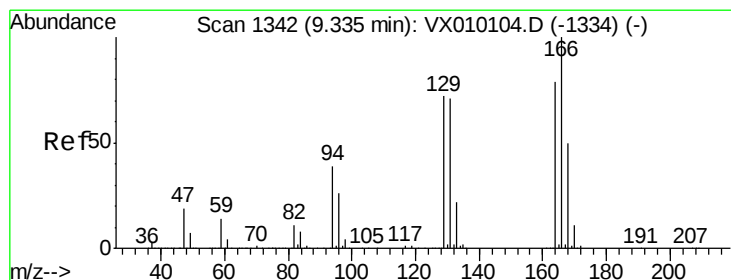
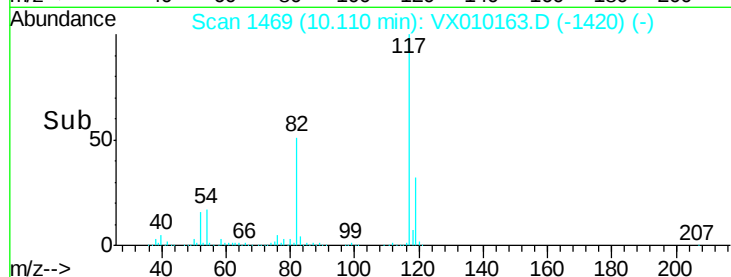
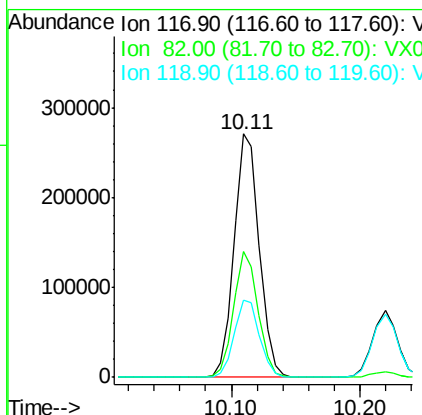
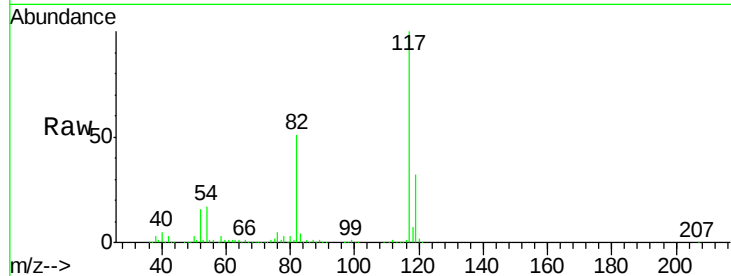
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX010163.D
Acq: 09 Jun 2019 00:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.4	49.2	73.8
119	31.5	25.2	37.8

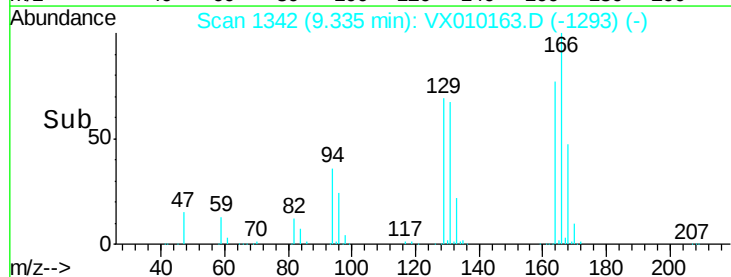
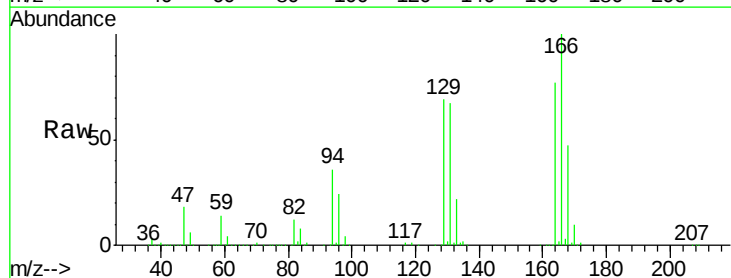
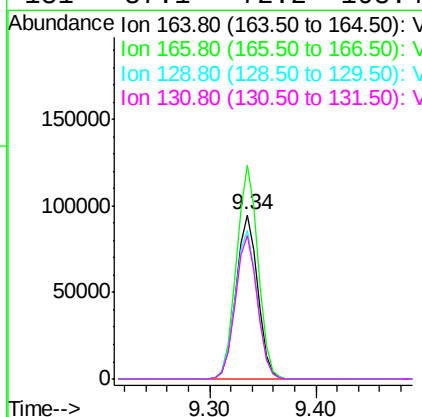
Manual Integrations
APPROVED

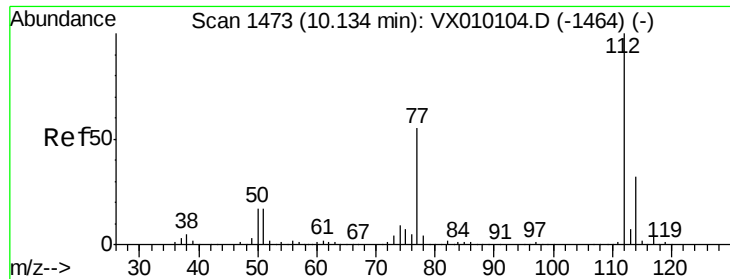
MMDadoda
6/10/2019 9:40:35 AM



#64
Tetrachloroethene
Concen: 49.739 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX010163.D
Acq: 09 Jun 2019 00:53

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.3	105.0	157.4
129	90.3	75.1	112.7
131	87.1	72.2	108.4





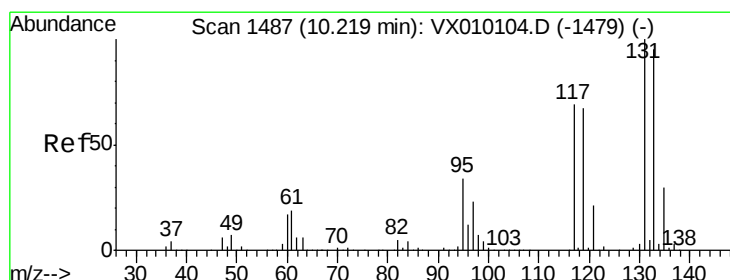
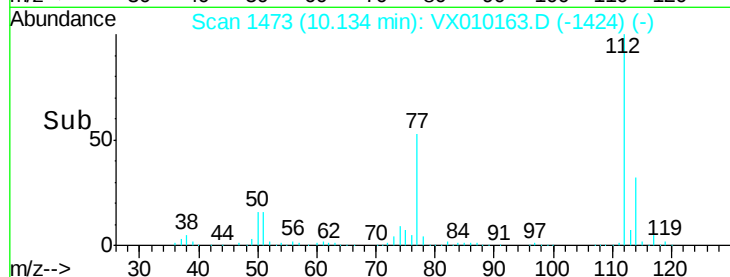
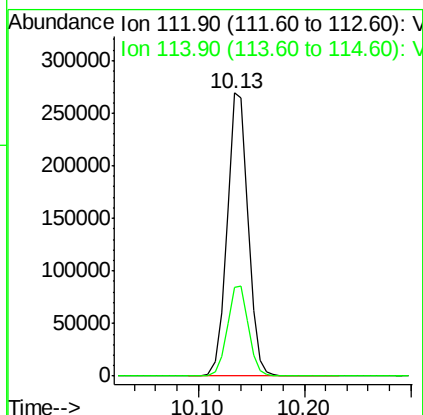
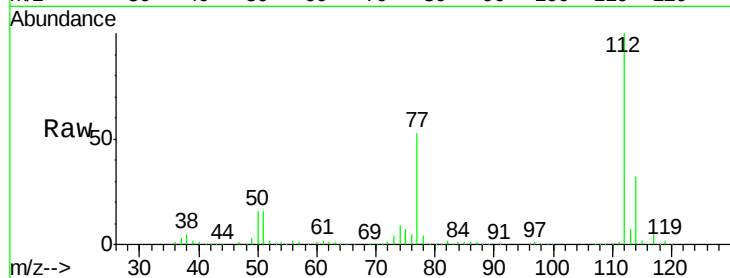
#65
Chlorobenzene
Concen: 48.907 ug/l
RT: 10.13 min Scan# 1473
Delta R.T. -0.00 min
Lab File: VX010163.D
Acq: 09 Jun 2019 00:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tot Ion:112 Resp: 371562
Ion Ratio Lower Upper
112 100
114 31.5 25.8 38.8

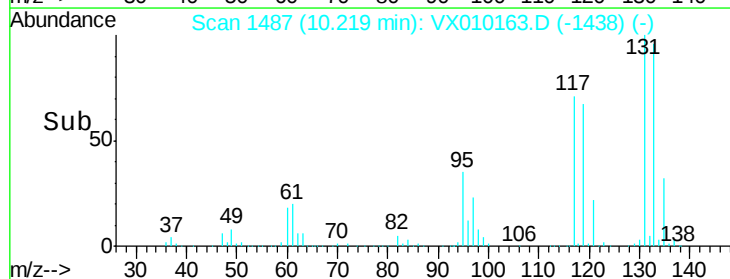
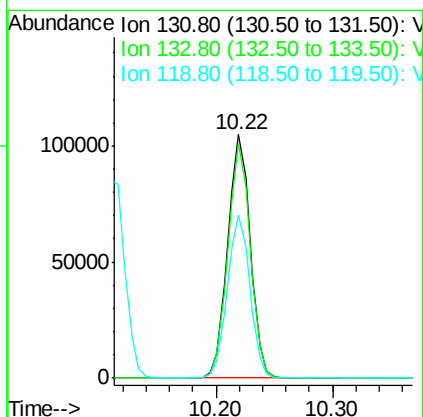
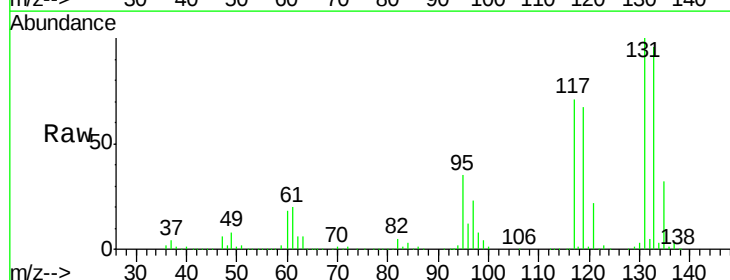
Manual Integrations
APPROVED

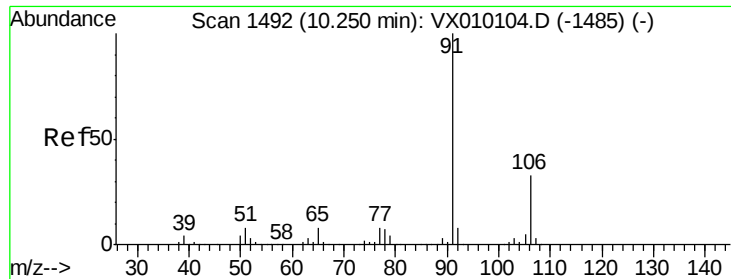
MMDadoda
6/10/2019 9:40:35 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 48.404 ug/l
RT: 10.22 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VX010163.D
Acq: 09 Jun 2019 00:53

Tgt Ion:131 Resp: 141417
Ion Ratio Lower Upper
131 100
133 95.6 47.5 142.6
119 67.1 33.4 100.1





#67

Ethyl Benzene

Concen: 48.414 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 626143

Ion Ratio Lower Upper

91 100

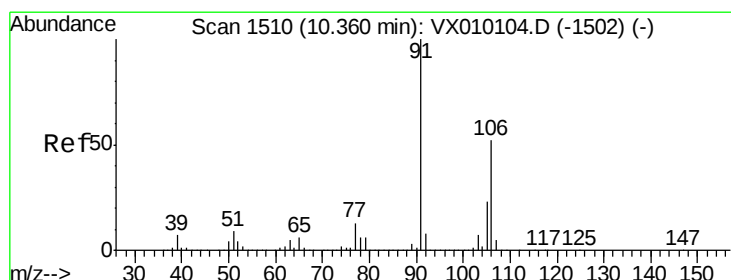
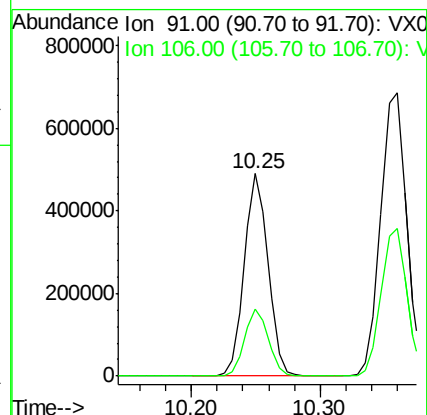
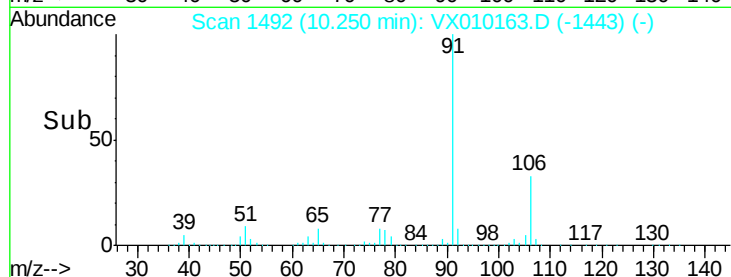
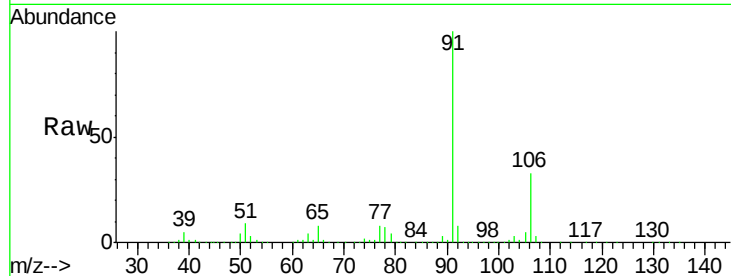
106 33.0 23.9 35.9

Manual Integrations

APPROVED

MMDadoda

6/10/2019 9:40:35 AM



#68

m/p-Xylenes

Concen: 98.989 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VX010163.D

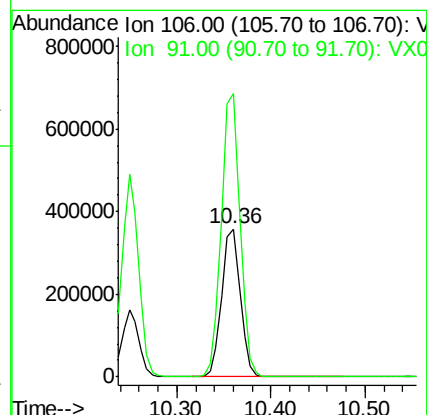
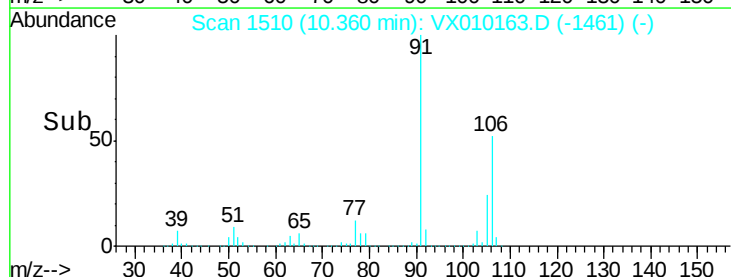
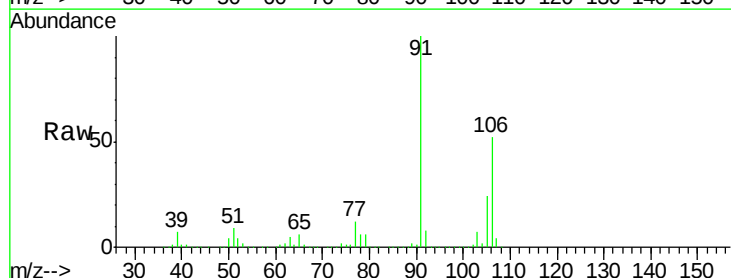
Acq: 09 Jun 2019 00:53

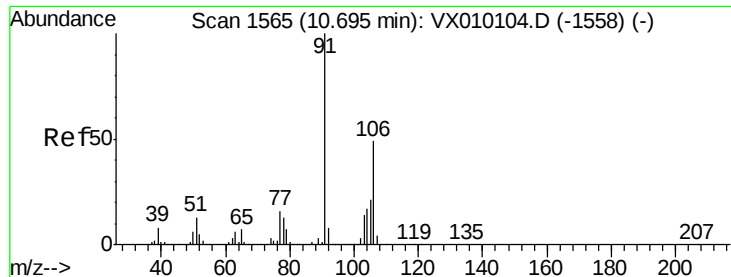
Tgt Ion: 106 Resp: 495417

Ion Ratio Lower Upper

106 100

91 192.0 167.3 250.9





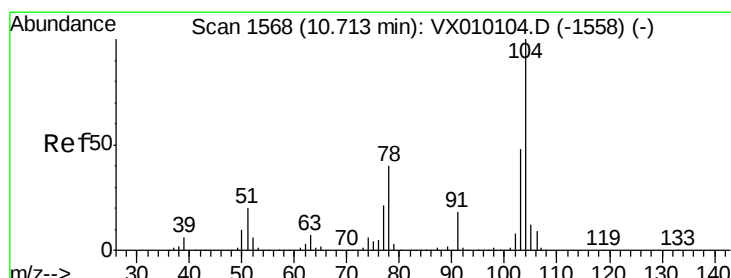
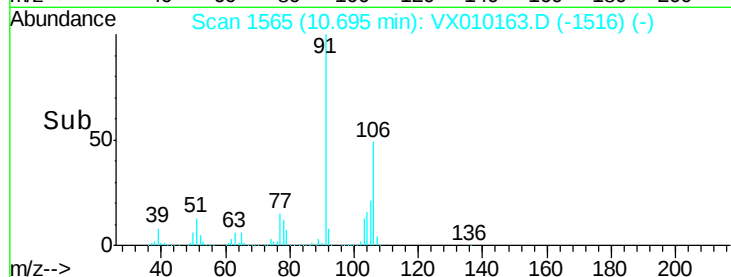
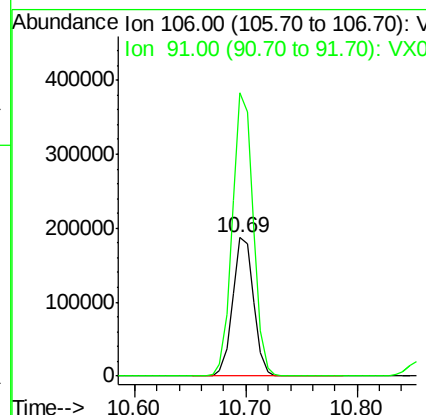
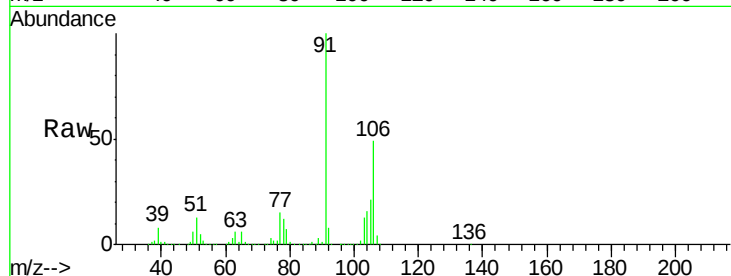
#69
o-Xylene
Concen: 48.854 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. -0.00 min
Lab File: VX010163.D
Acq: 09 Jun 2019 00:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		243046		
91	203.8	110.4	331.2		

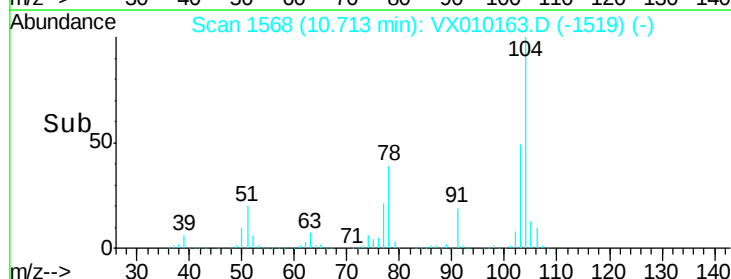
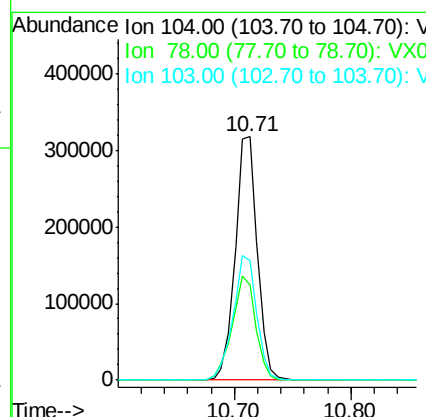
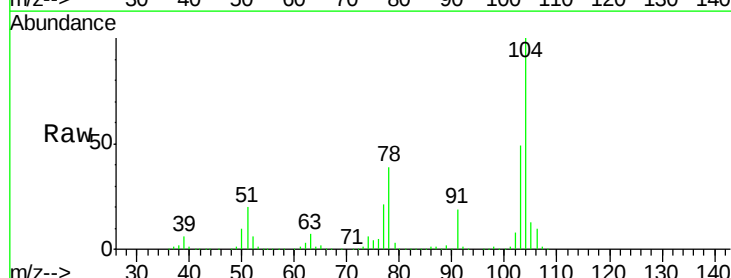
Manual Integrations
APPROVED

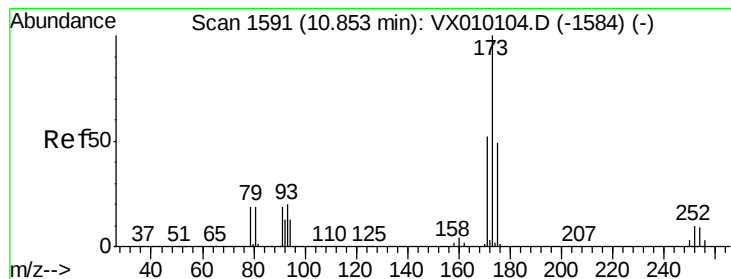
MMDadoda
6/10/2019 9:40:35 AM



#70
Styrene
Concen: 49.962 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VX010163.D
Acq: 09 Jun 2019 00:53

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		420976		
78	45.6	42.1	63.1		
103	54.7	44.1	66.1		





#71

Bromoform

Concen: 49.679 ug/l

RT: 10.85 min Scan# 1591

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion:173 Resp: 133430

Ion Ratio Lower Upper

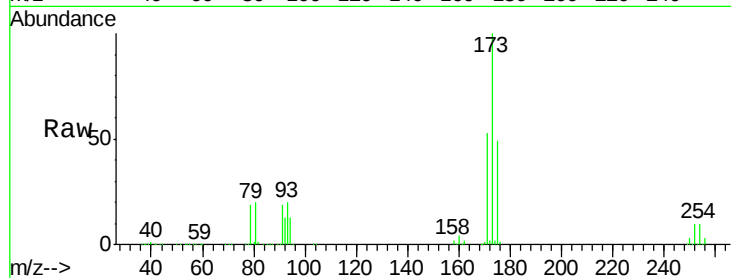
173 100

175 48.3 25.0 75.0

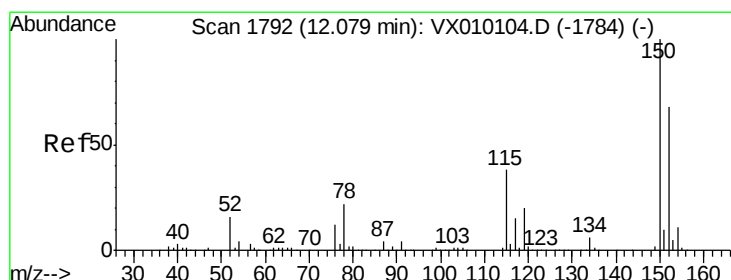
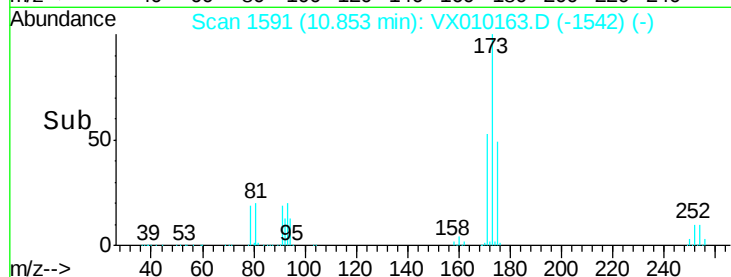
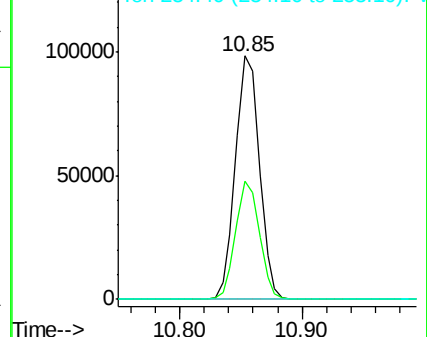
254 0.2 0.2 0.2

Manual Integrations
APPROVED

MMDadoda
6/10/2019 9:40:35 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: VX010163.D

Acq: 09 Jun 2019 00:53

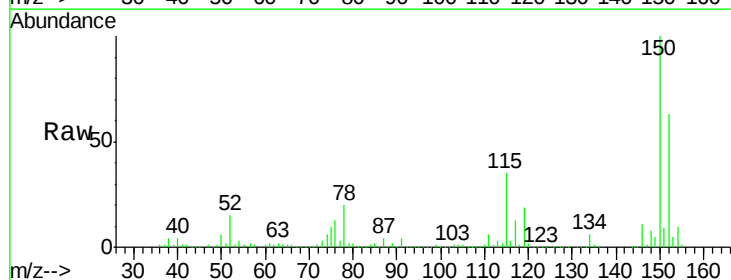
Tgt Ion:152 Resp: 190969

Ion Ratio Lower Upper

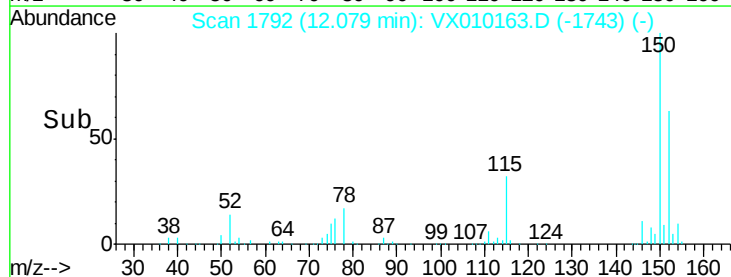
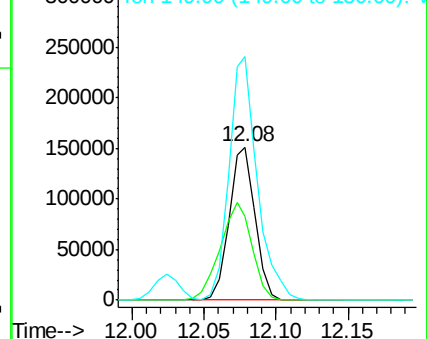
152 100

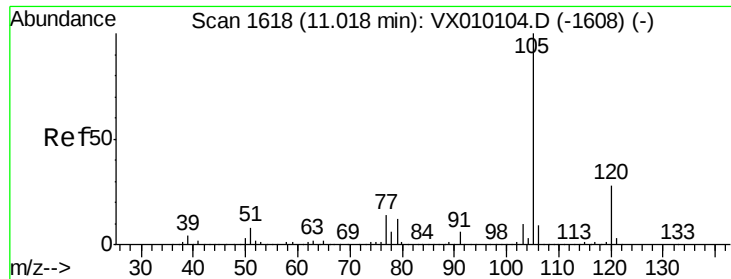
115 77.4 41.4 124.2

150 173.6 0.0 345.2



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: 47.976 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion: 105 Resp: 639570

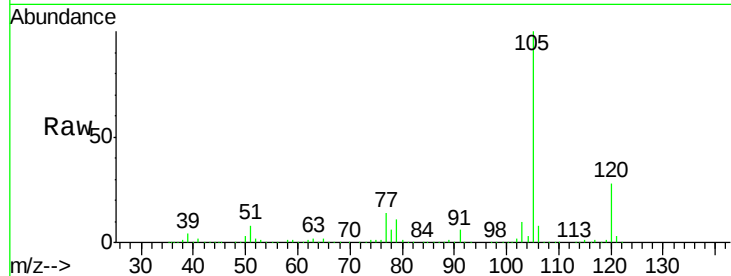
Ion Ratio Lower Upper

105 100

120 27.9 12.8 38.4

Manual Integrations
APPROVED

MMDadoda
6/10/2019 9:40:35 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.02

600000

500000

400000

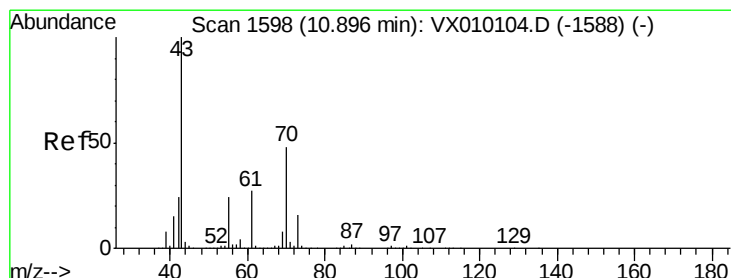
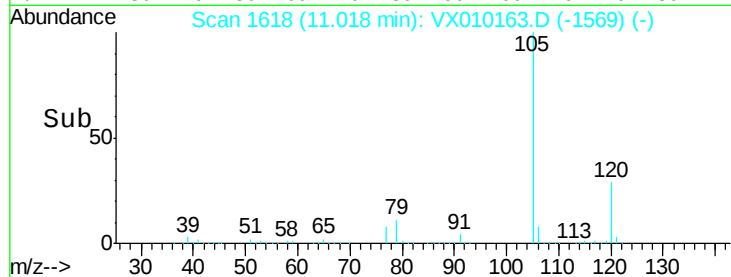
300000

200000

100000

0

Time-->



#74

N-ethyl acetate

Concen: 48.534 ug/l

RT: 10.90 min Scan# 1598

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Tgt Ion: 43 Resp: 255758

Ion Ratio Lower Upper

43 100

70 46.4 28.6 43.0#

55 24.0 17.8 26.8

61 26.4 17.7 26.5

Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

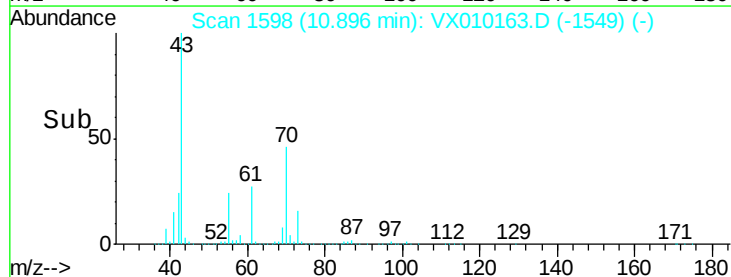
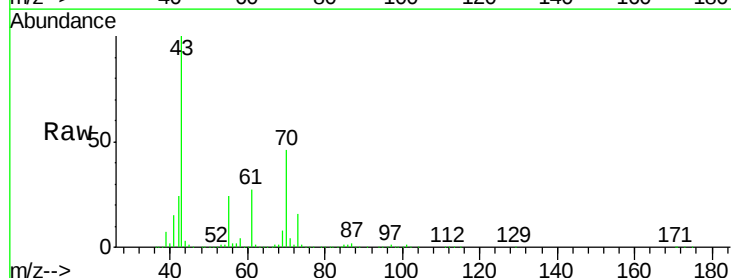
300000

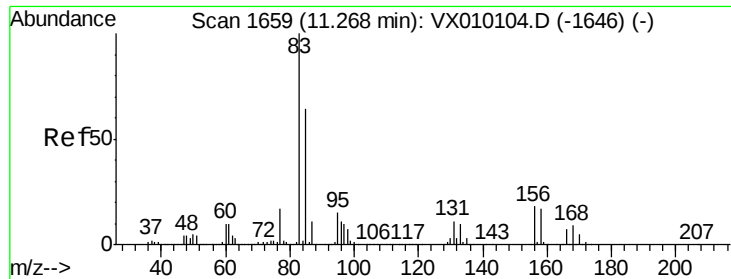
200000

100000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 48.328 ug/l

RT: 11.27 min Scan# 1659

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Instrument :

MSVOA_X

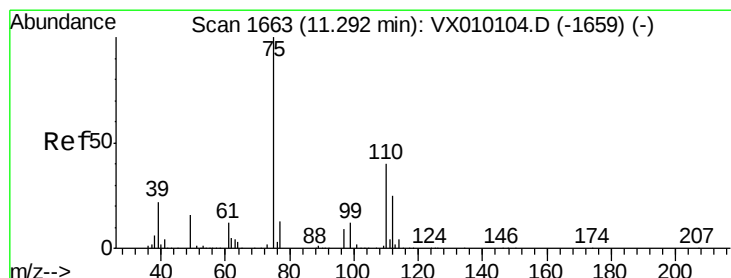
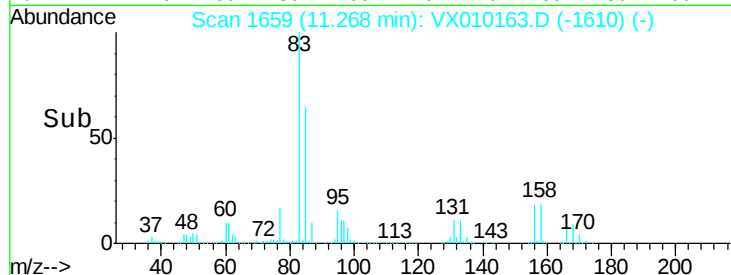
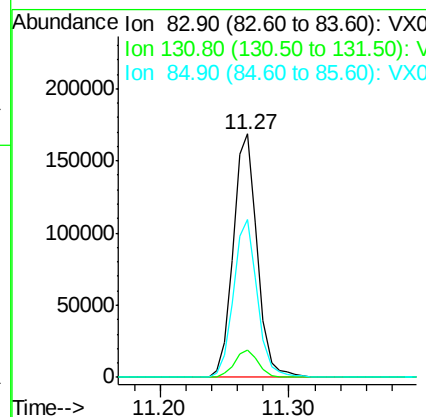
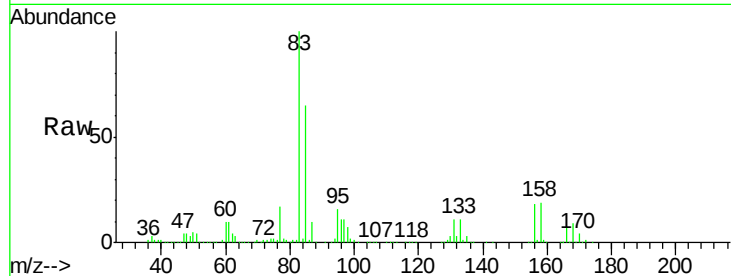
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	220534
Ion Ratio	Lower	Upper	
83	100		
131	11.0	4.7	14.1
85	64.3	31.9	95.9

Manual Integrations
APPROVED

MMDadoda
6/10/2019 9:40:35 AM



#76

1,2,3-Trichloropropane

Concen: 47.419 ug/l m

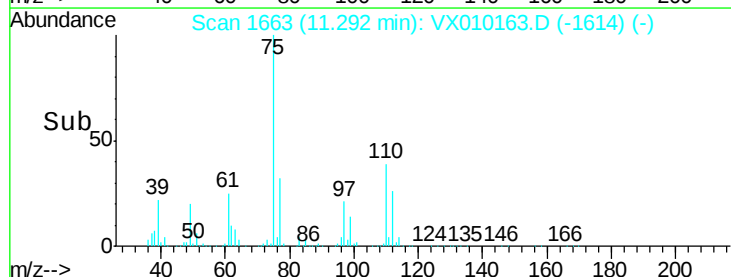
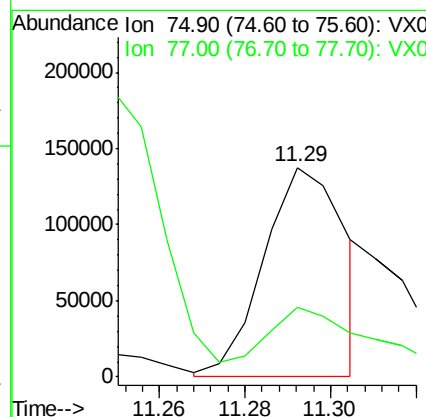
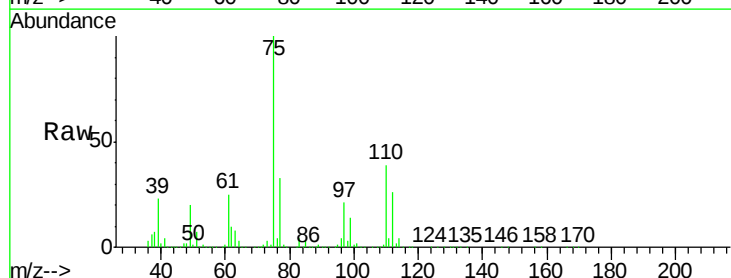
RT: 11.29 min Scan# 1663

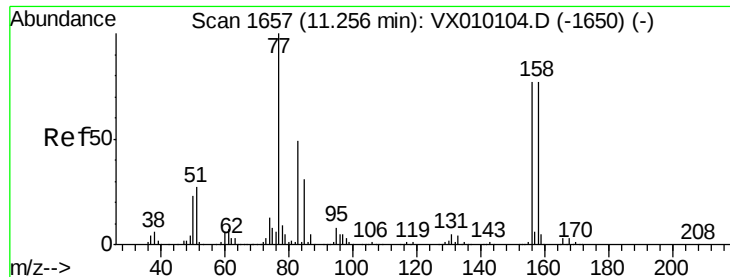
Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Tgt Ion:	75	Resp:	181130
Ion Ratio	Lower	Upper	
75	100		
77	44.3	22.1	66.1





#77

Bromobenzene

Concen: 47.938 ug/l

RT: 11.26 min Scan# 1657

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Instrument :

MSVOA_X

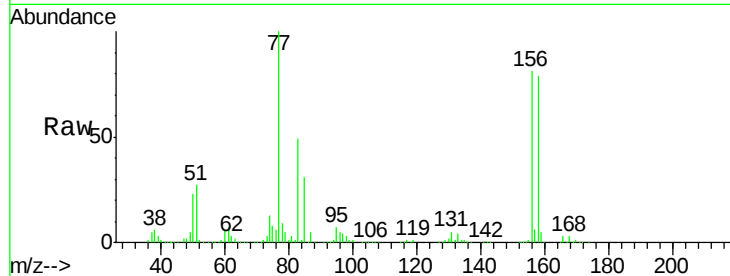
ClientSampleId :

VSTDCCC050EC

Tot Ion:	156	Resp:	175737
Ion Ratio	Lower	Upper	
156	100		
77	135.4	86.8	260.3
158	98.4	49.6	148.8

Manual Integrations
APPROVED

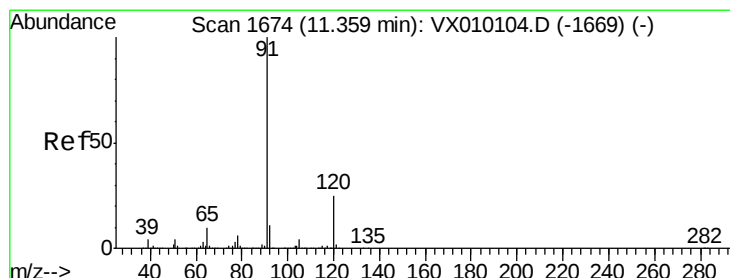
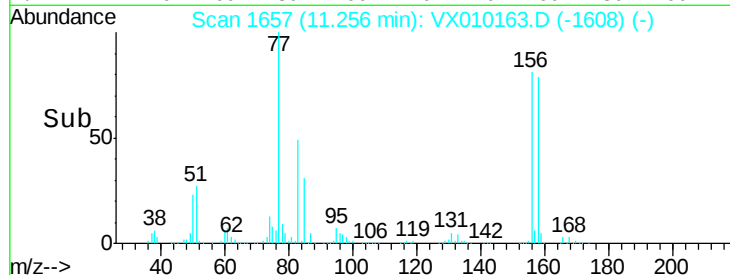
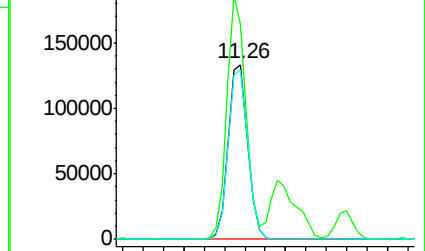
MMDadoda
6/10/2019 9:40:35 AM



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: 47.772 ug/l

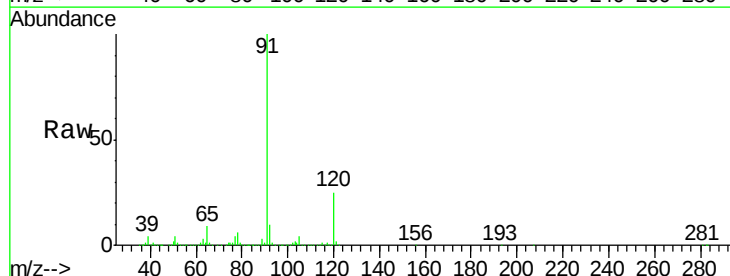
RT: 11.36 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VX010163.D

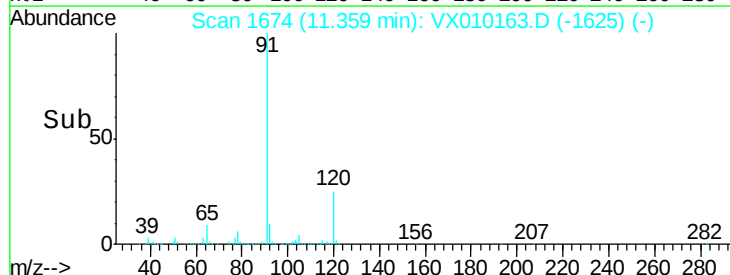
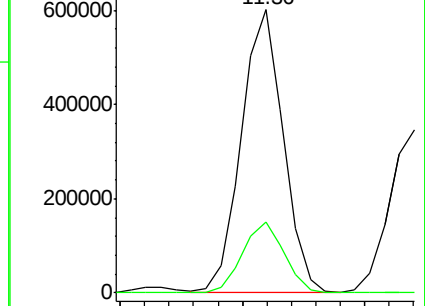
Acq: 09 Jun 2019 00:53

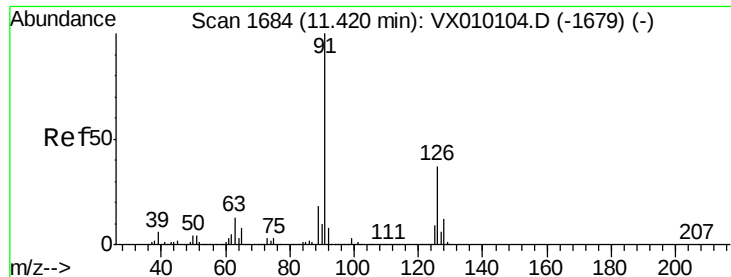
Tgt Ion:	91	Resp:	708994
Ion Ratio	Lower	Upper	
91	100		
120	25.1	11.1	33.3



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 47.563 ug/l

RT: 11.42 min Scan# 1684

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 423950

Ion Ratio Lower Upper

91 100

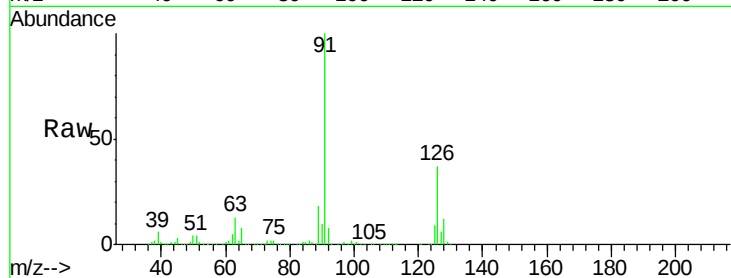
126 37.4 16.1 48.3

Manual Integrations

APPROVED

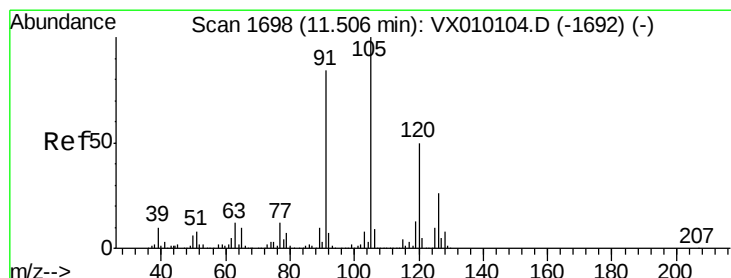
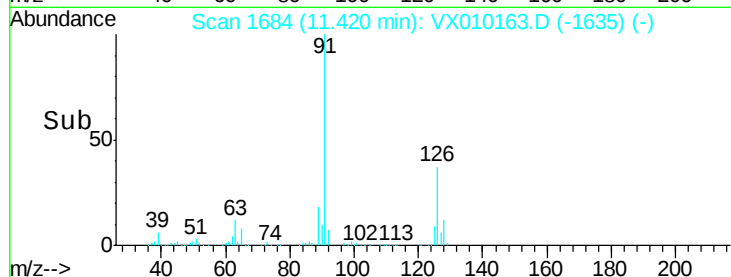
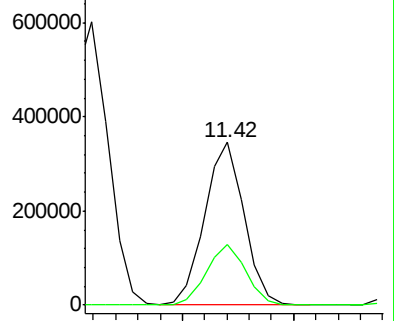
MMDadoda

6/10/2019 9:40:35 AM



Abundance Ion 91.00 (90.70 to 91.70): VX010104.D (-1679) (-)

Ion 125.90 (125.60 to 126.60): VX010104.D (-1679) (-)



#80

1,3,5-Trimethylbenzene

Concen: 47.639 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX010163.D

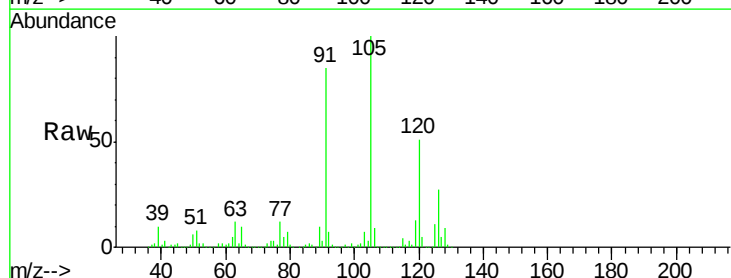
Acq: 09 Jun 2019 00:53

Tgt Ion: 105 Resp: 534900

Ion Ratio Lower Upper

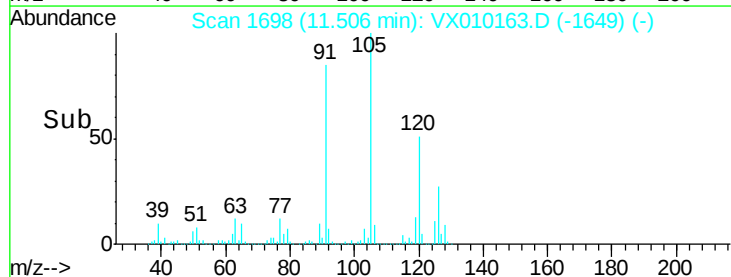
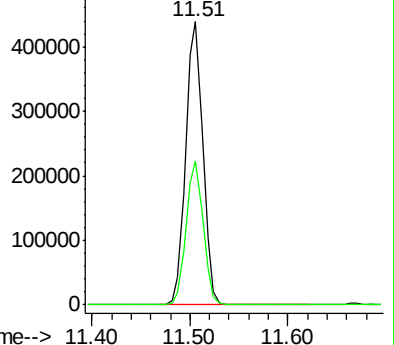
105 100

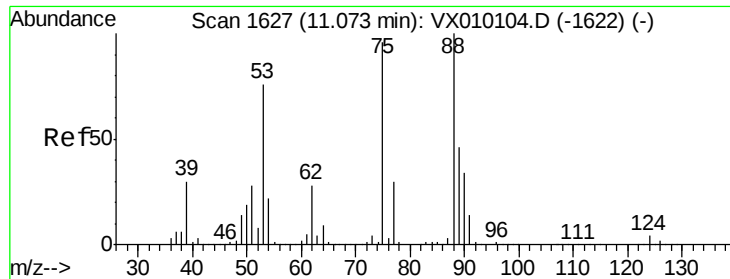
120 50.3 24.1 72.3



Abundance Ion 105.00 (104.70 to 105.70): VX010104.D (-1692) (-)

Ion 120.00 (119.70 to 120.70): VX010104.D (-1692) (-)





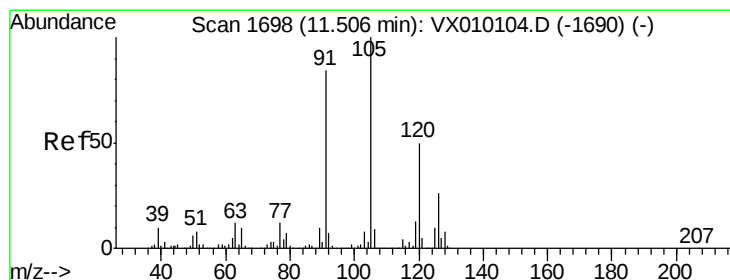
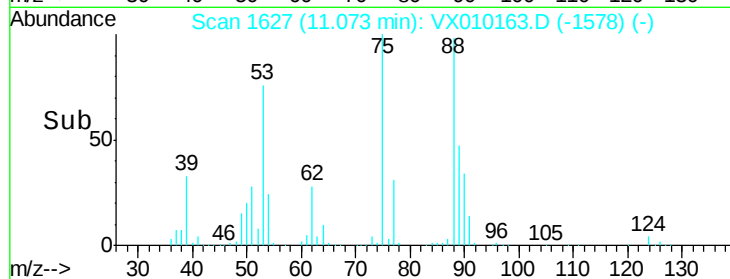
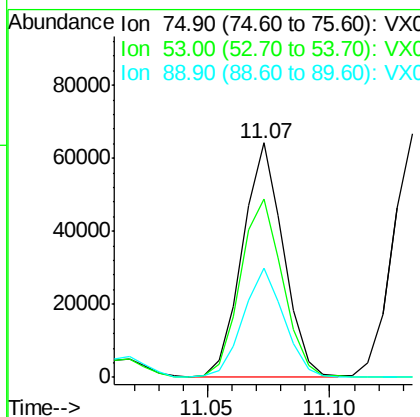
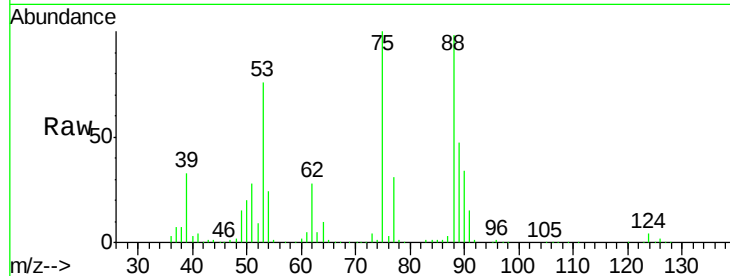
#81
trans-1,4-Dichloro-2-butene
Concen: 42.931 ug/l
RT: 11.07 min Scan# 1627
Delta R.T. -0.00 min
Lab File: VX010163.D
Acq: 09 Jun 2019 00:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
75	100		
53	78.6	79.8	119.6#
89	46.9	34.2	51.4

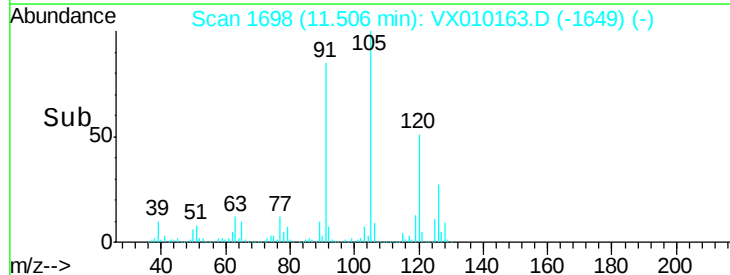
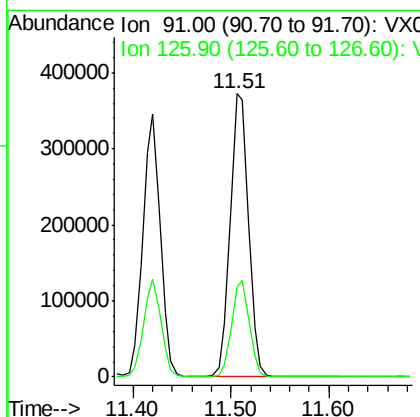
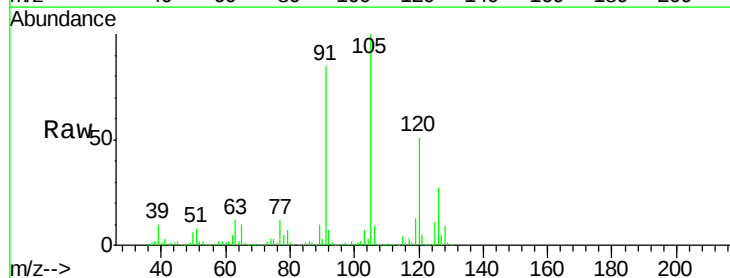
Manual Integrations
APPROVED

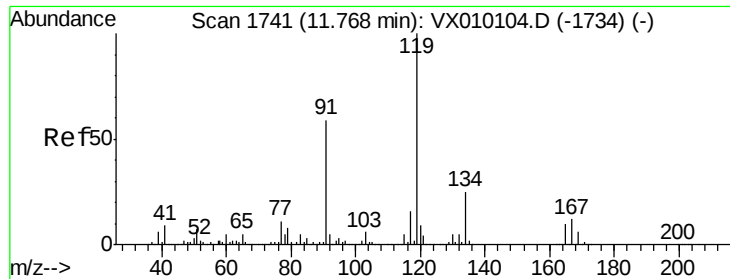
MMDadoda
6/10/2019 9:40:35 AM



#82
4-Chlorotoluene
Concen: 47.744 ug/l
RT: 11.51 min Scan# 1698
Delta R.T. -0.00 min
Lab File: VX010163.D
Acq: 09 Jun 2019 00:53

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.1	14.2	42.6





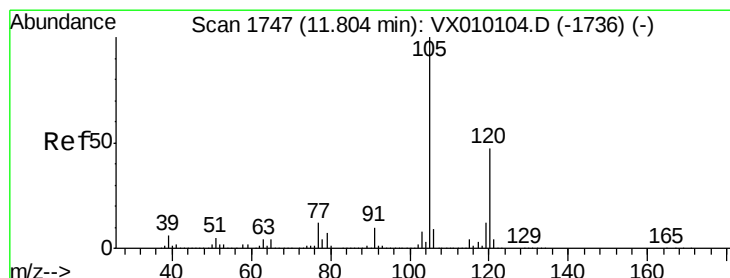
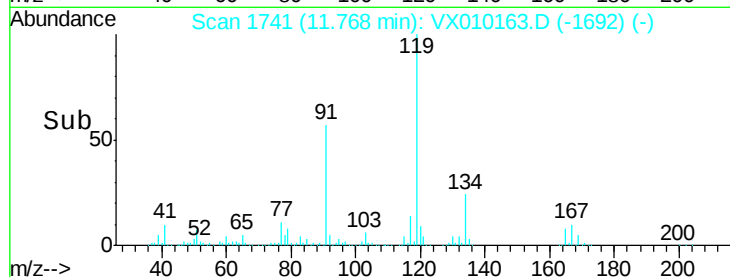
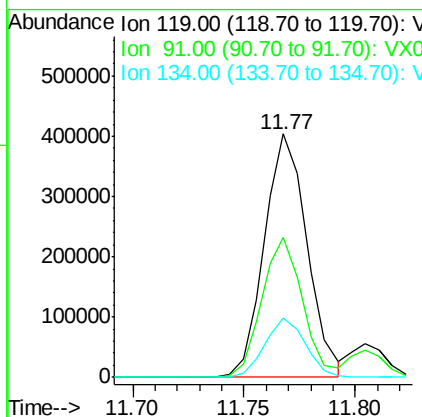
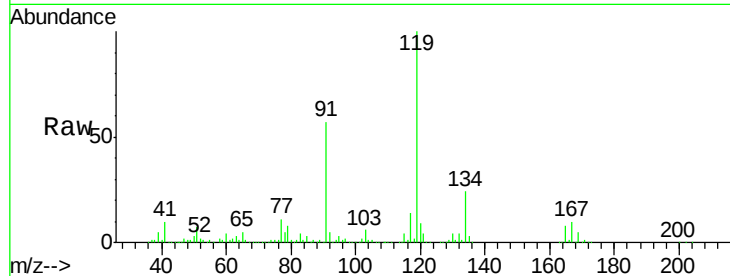
#83
tert-Butylbenzene
Concen: 47.397 ug/l
RT: 11.77 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VX010163.D
Acq: 09 Jun 2019 00:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
119	100		
91	54.7	30.0	90.0
134	23.2	11.2	33.5

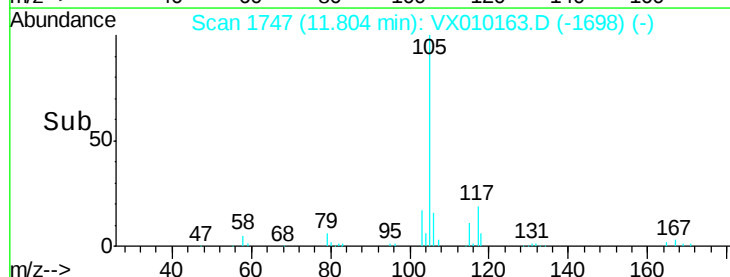
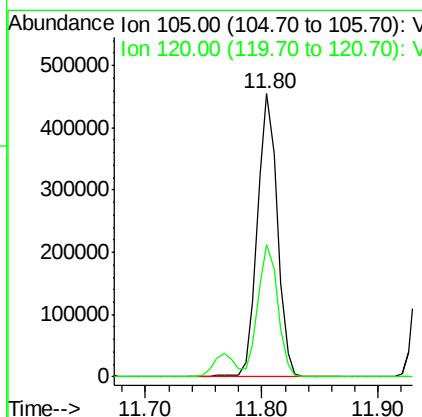
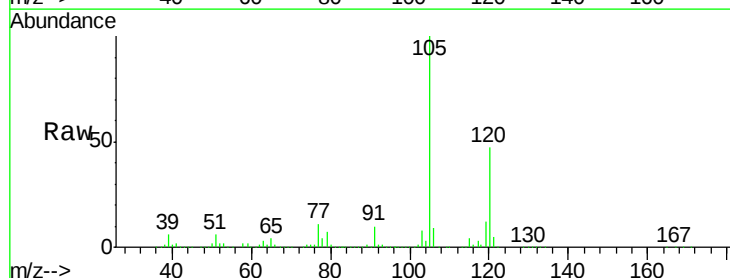
Manual Integrations
APPROVED

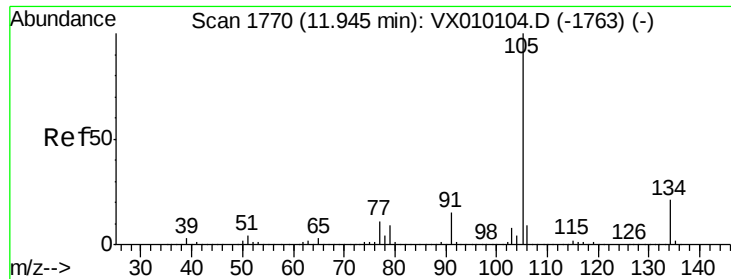
MMDadoda
6/10/2019 9:40:35 AM



#84
1,2,4-Trimethylbenzene
Concen: 48.048 ug/l
RT: 11.80 min Scan# 1747
Delta R.T. -0.00 min
Lab File: VX010163.D
Acq: 09 Jun 2019 00:53

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.1	22.1	66.1





#85

sec-Butylbenzene

Concen: 47.494 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 628821

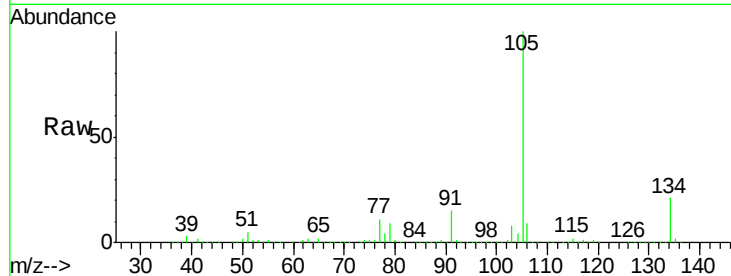
Ion Ratio Lower Upper

105 100

134 21.2 9.7 28.9

Manual Integrations
APPROVED

MMDadoda
6/10/2019 9:40:35 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

11.94

600000

500000

400000

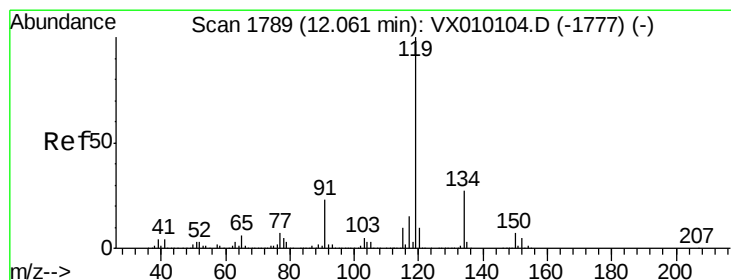
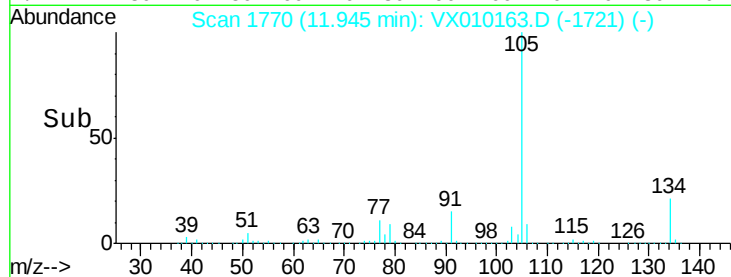
300000

200000

100000

0

Time-->



#86

p-Isopropyltoluene

Concen: 47.638 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

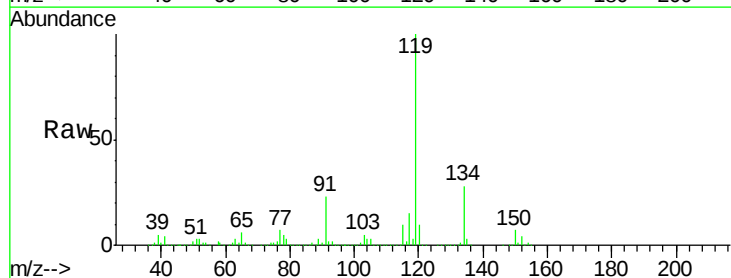
Tgt Ion:119 Resp: 576607

Ion Ratio Lower Upper

119 100

134 27.7 12.9 38.6

91 22.5 11.9 35.9



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

12.06

600000

500000

400000

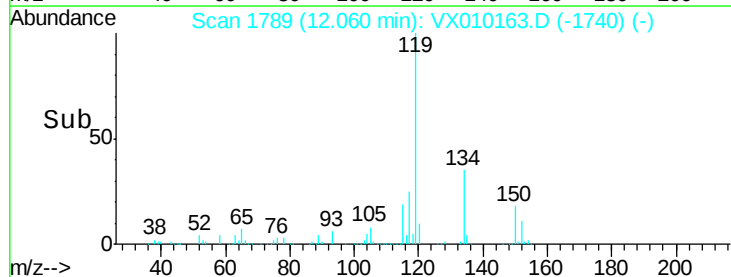
300000

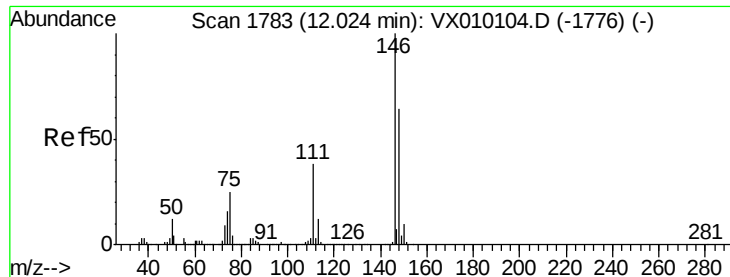
200000

100000

0

Time-->





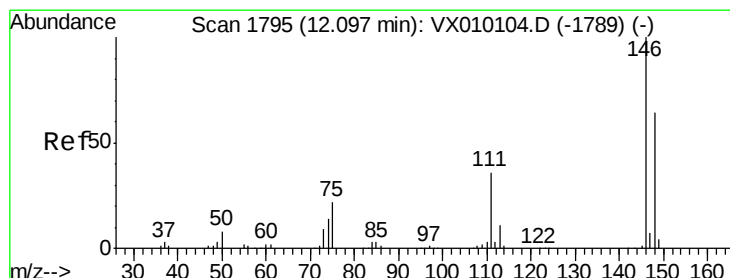
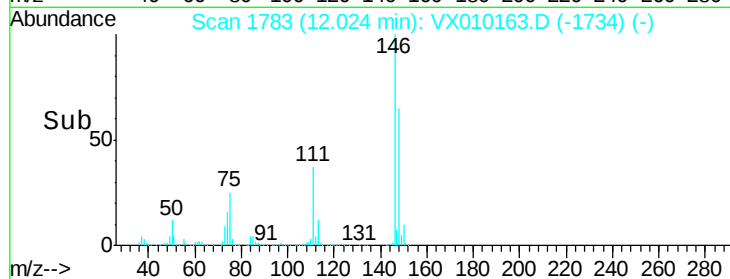
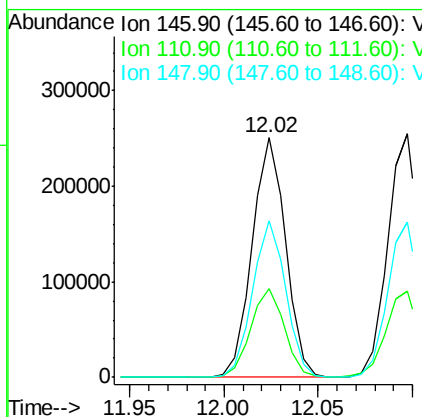
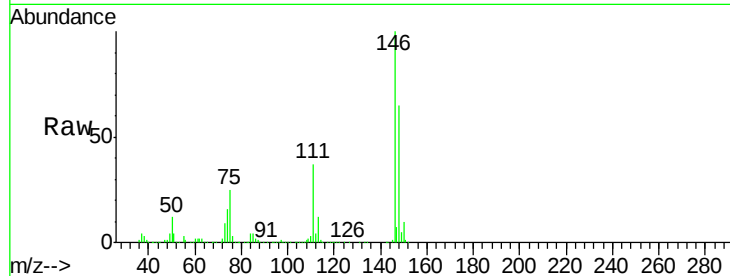
#87
 1,3-Dichlorobenzene
 Concen: 47.799 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. -0.00 min
 Lab File: VX010163.D
 Acq: 09 Jun 2019 00:53

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.6	20.1	60.2
148	64.8	31.9	95.5

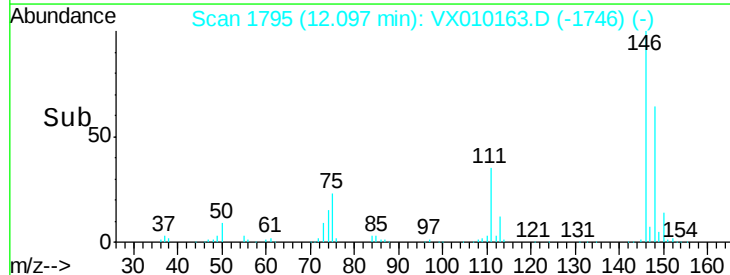
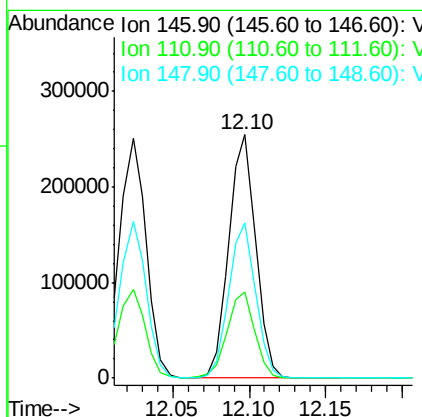
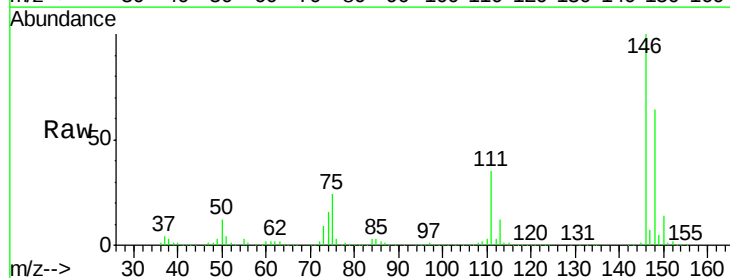
Manual Integrations
 APPROVED

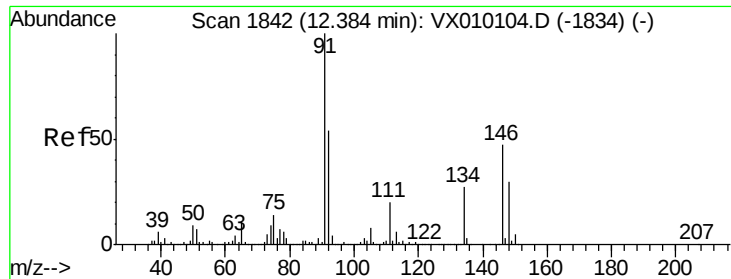
MMDadoda
 6/10/2019 9:40:35 AM



#88
 1,4-Dichlorobenzene
 Concen: 47.729 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. -0.00 min
 Lab File: VX010163.D
 Acq: 09 Jun 2019 00:53

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.3	20.0	59.9
148	63.8	32.3	96.9





#89

n-Butylbenzene

Concen: 47.260 ug/l

RT: 12.38 min Scan# 1842

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 492396

Ion Ratio Lower Upper

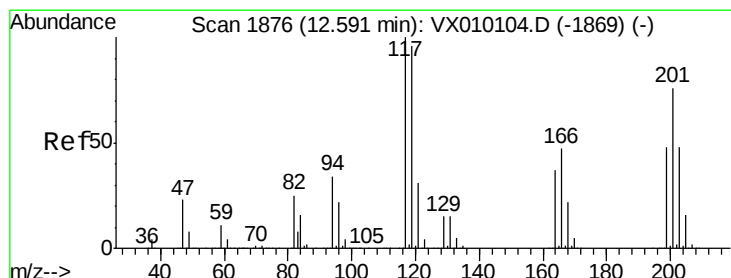
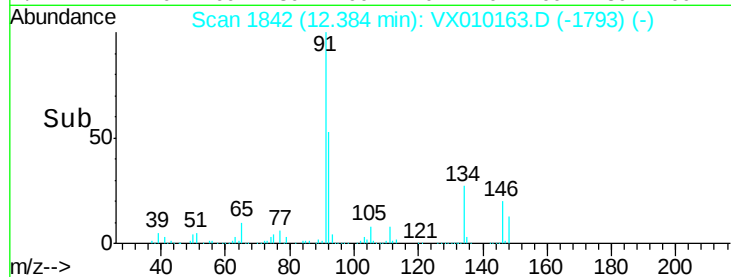
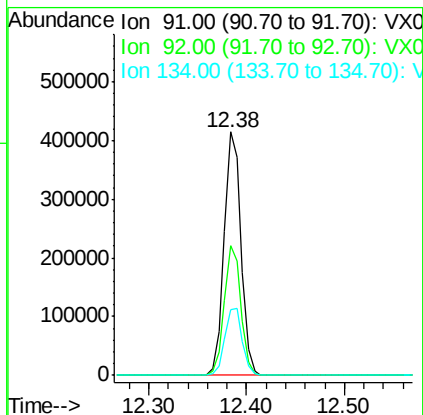
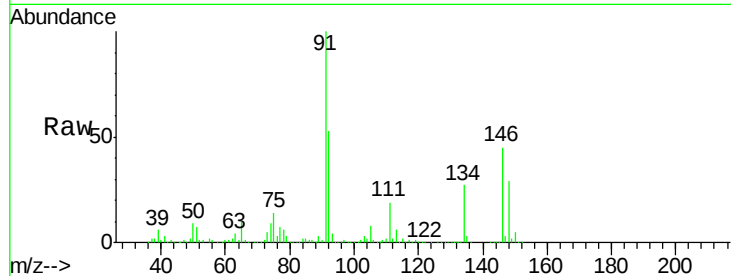
91 100

92 52.8 26.3 78.8

134 28.4 12.3 36.8

Manual Integrations
APPROVED

MMDadoda
6/10/2019 9:40:35 AM



#90

Hexachloroethane

Concen: 46.232 ug/l

RT: 12.59 min Scan# 1876

Delta R.T. -0.00 min

Lab File: VX010163.D

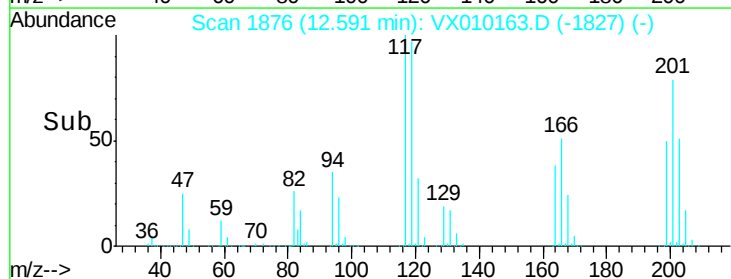
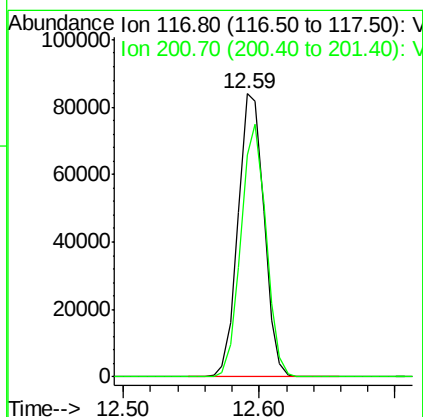
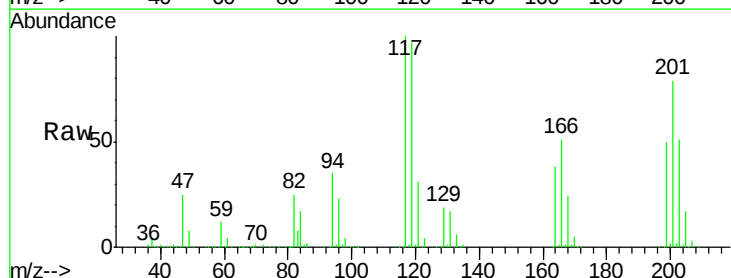
Acq: 09 Jun 2019 00:53

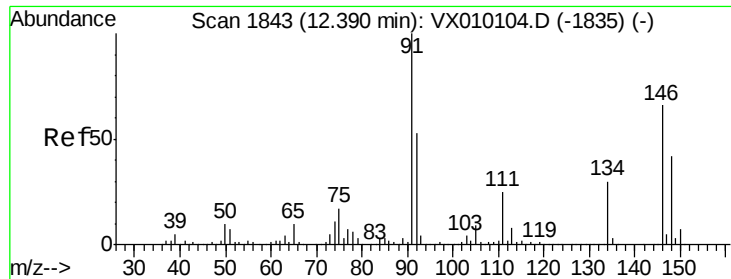
Tgt Ion: 117 Resp: 111471

Ion Ratio Lower Upper

117 100

201 86.7 43.6 130.9





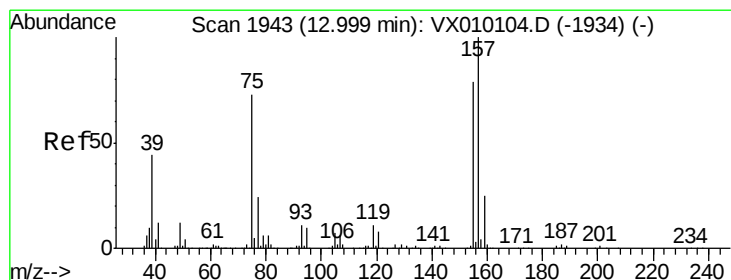
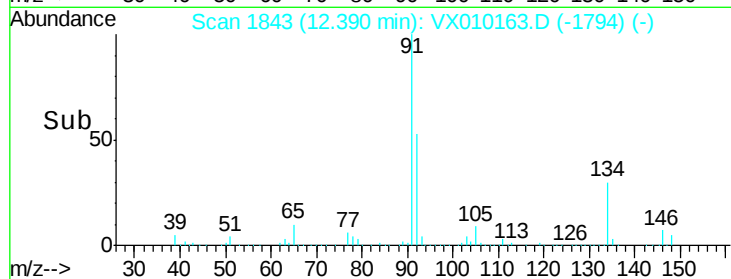
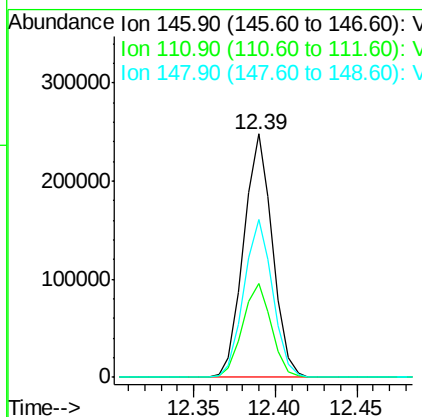
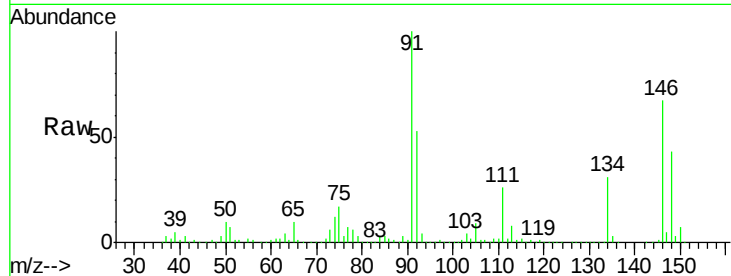
#91
 1,2-Dichlorobenzene
 Concen: 48.595 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. -0.00 min
 Lab File: VX010163.D
 Acq: 09 Jun 2019 00:53

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.6	21.1	63.1
148	64.7	32.3	96.8

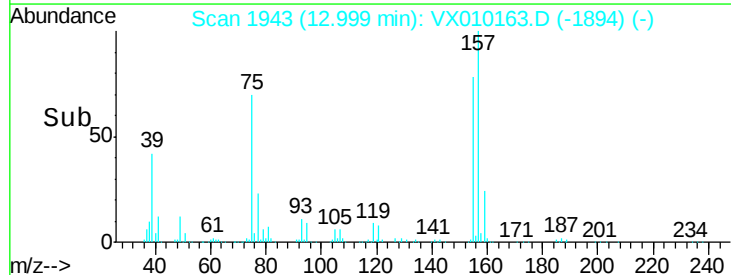
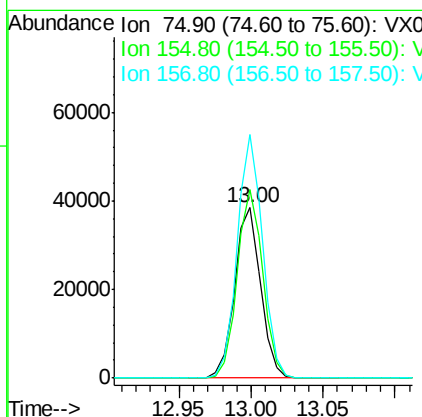
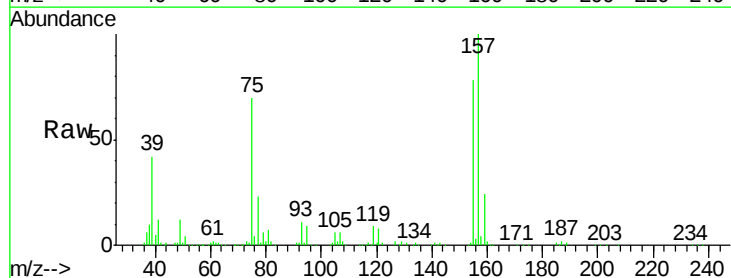
Manual Integrations
 APPROVED

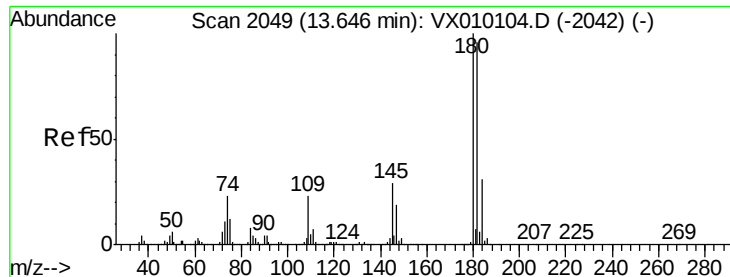
MMDadoda
 6/10/2019 9:40:35 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 45.151 ug/l
 RT: 13.00 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VX010163.D
 Acq: 09 Jun 2019 00:53

Tgt Ion	Ratio	Lower	Upper
75	100		
155	108.4	39.3	117.8
157	138.9	50.6	151.8





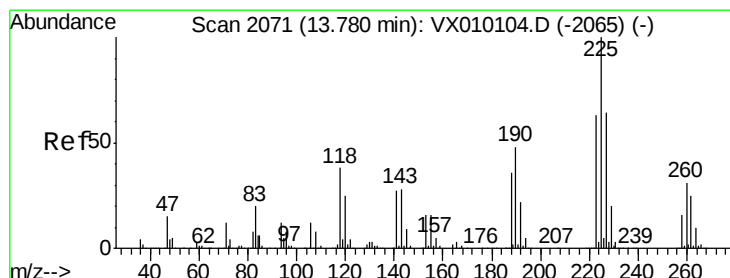
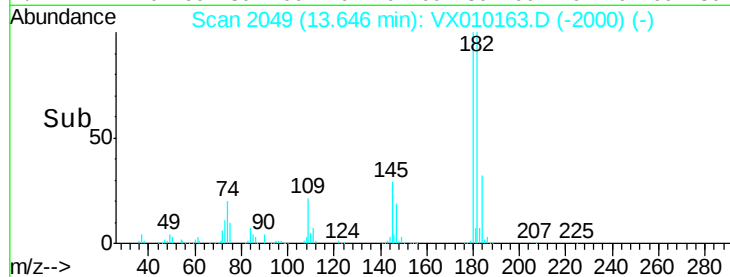
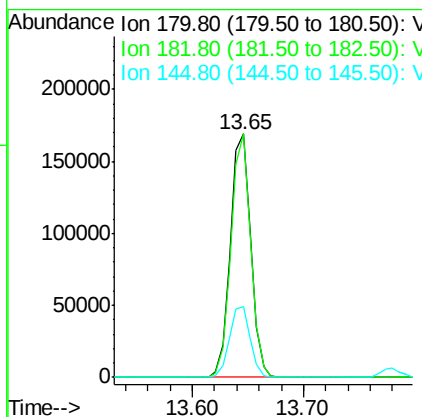
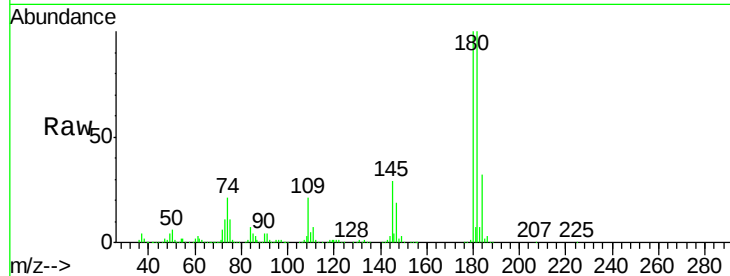
#93
 1,2,4-Trichlorobenzene
 Concen: 46.336 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. -0.00 min
 Lab File: VX010163.D
 Acq: 09 Jun 2019 00:53

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
180	100	212920		
182	96.8	47.4	142.2	
145	29.6	14.5	43.5	

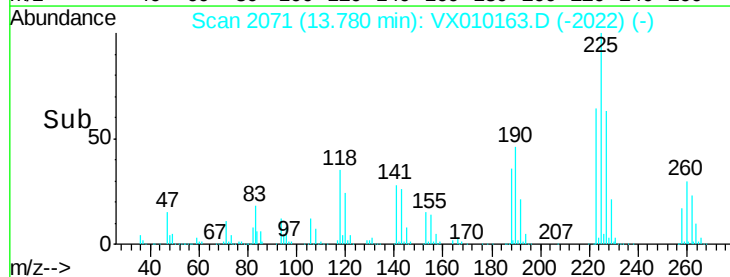
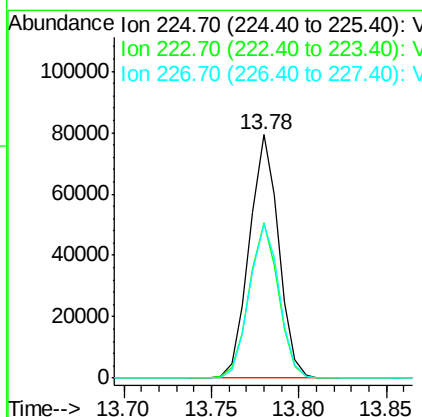
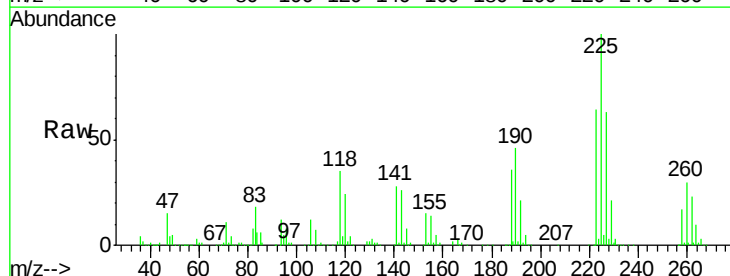
Manual Integrations
 APPROVED

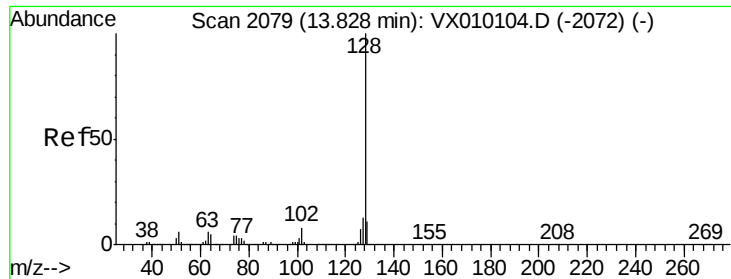
MMDadoda
 6/10/2019 9:40:35 AM



#94
 Hexachlorobutadiene
 Concen: 45.474 ug/l
 RT: 13.78 min Scan# 2071
 Delta R.T. -0.00 min
 Lab File: VX010163.D
 Acq: 09 Jun 2019 00:53

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	92932		
223	63.8	31.3	93.8	
227	64.4	32.3	96.8	





#95

Naphthalene

Concen: 48.415 ug/l

RT: 13.83 min Scan# 2079

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Instrument :

MSVOA_X

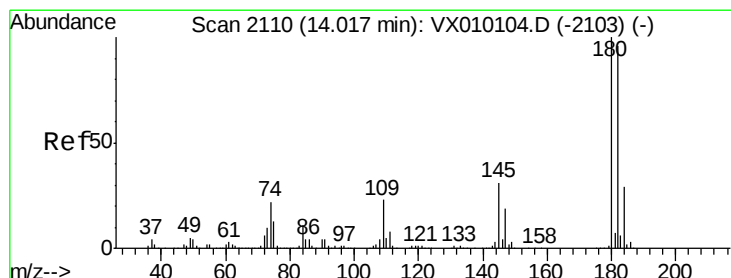
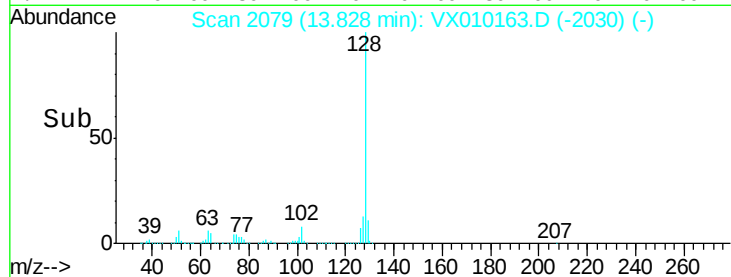
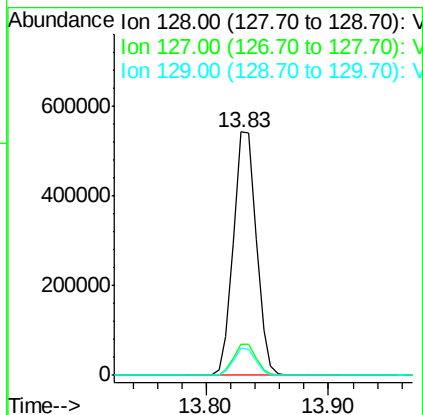
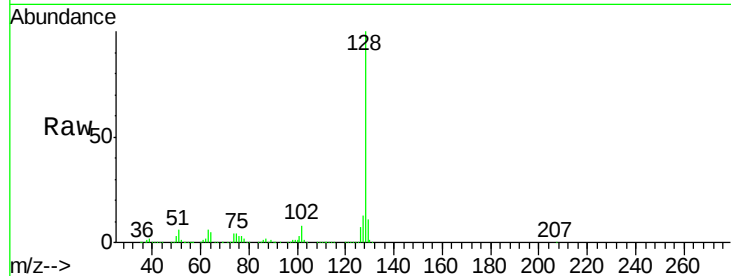
ClientSampleId :

VSTDCCC050EC

Tot Ion:	128	Resp:	700323
Ion Ratio	Lower	Upper	
128	100		
127	12.7	10.6	16.0
129	11.0	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
6/10/2019 9:40:35 AM



#96

1,2,3-Trichlorobenzene

Concen: 47.395 ug/l

RT: 14.02 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VX010163.D

Acq: 09 Jun 2019 00:53

Tgt Ion:	180	Resp:	215337
Ion Ratio	Lower	Upper	
180	100		
182	96.2	47.3	142.0
145	31.1	15.6	46.7

