

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051119\
 Data File : VX009531.D
 Acq On : 11 May 2019 17:50
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 5/13/2019 4:27:33 PM

Quant Time: May 12 02:39:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	161574	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	258063	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	233659	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	119026	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	112946	51.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.42%	
35) Dibromofluoromethane	5.50	113	83491	51.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.92%	
50) Toluene-d8	8.71	98	334400	51.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.12%	
62) 4-Bromofluorobenzene	11.13	95	125245	52.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.26%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	68124	45.754	ug/l	100
3) Chloromethane	1.32	50	100427	49.404	ug/l	99
4) Vinyl Chloride	1.41	62	100559	50.731	ug/l	98
5) Bromomethane	1.64	94	63964	53.763	ug/l	97
6) Chloroethane	1.71	64	63243	49.694	ug/l	99
7) Trichlorofluoromethane	1.92	101	124772	51.784	ug/l	97
8) Diethyl Ether	2.19	74	58704	51.435	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.38	101	76533	50.581	ug/l	99
10) Methyl Iodide	2.51	142	92298	52.271	ug/l	99
11) Tert butyl alcohol	3.06	59	140492	275.172	ug/l	99
12) 1,1-Dichloroethene	2.37	96	78876	52.028	ug/l	99
13) Acrolein	2.29	56	116207	251.324	ug/l	99
14) Allyl chloride	2.73	41	185779	50.284	ug/l	99
15) Acrylonitrile	3.14	53	324568	259.996	ug/l	99
16) Acetone	2.45	43	285386	240.962	ug/l	98
17) Carbon Disulfide	2.57	76	221272	51.986	ug/l	99
18) Methyl Acetate	2.78	43	140590	49.914	ug/l	100
19) Methyl tert-butyl Ether	3.20	73	306317	52.032	ug/l	98
20) Methylene Chloride	2.85	84	95199	49.644	ug/l	97
21) trans-1,2-Dichloroethene	3.17	96	85757	52.159	ug/l	98
22) Diisopropyl ether	3.85	45	368727	51.896	ug/l	96
23) Vinyl Acetate	3.81	43	1656995	272.345	ug/l	100
24) 1,1-Dichloroethane	3.70	63	178633	50.965	ug/l	99
25) 2-Butanone	4.68	43	482680	262.260	ug/l	100
26) 2,2-Dichloropropane	4.58	77	118174	45.296	ug/l	100
27) cis-1,2-Dichloroethene	4.60	96	101006	51.469	ug/l	98
28) Bromochloromethane	5.01	49	67393	47.635	ug/l	100
29) Tetrahydrofuran	5.13	42	320587	270.691	ug/l	99
30) Chloroform	5.21	83	164981	52.043	ug/l	100
31) Cyclohexane	5.57	56	170604	52.317	ug/l	98
32) 1,1,1-Trichloroethane	5.49	97	137569	52.130	ug/l	100
36) 1,1-Dichloropropene	5.80	75	126815	52.879	ug/l	99
37) Ethyl Acetate	4.84	43	181472	54.310	ug/l	99
38) Carbon Tetrachloride	5.78	117	115745	53.120	ug/l	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX051119\
 Data File : VX009531.D
 Acq On : 11 May 2019 17:50
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 5/13/2019 4:27:33 PM

Quant Time: May 12 02:39:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	153636	52.164	ug/l	98
40) Benzene	6.14	78	389490	52.477	ug/l	99
41) Methacrylonitrile	5.04	41	102649	51.607	ug/l	99
42) 1,2-Dichloroethane	6.19	62	141080	52.990	ug/l	100
43) Isopropyl Acetate	6.45	43	288657	54.007	ug/l	100
44) Trichloroethene	7.21	130	92684	51.655	ug/l	99
45) 1,2-Dichloropropane	7.51	63	109779	52.235	ug/l	99
46) Dibromomethane	7.66	93	63948	52.398	ug/l	99
47) Bromodichloromethane	7.90	83	129521	53.204	ug/l	99
48) Methyl methacrylate	7.77	41	144905	54.647	ug/l	99
49) 1,4-Dioxane	7.74	88	58874	1094.808	ug/l	99
51) 4-Methyl-2-Pentanone	8.64	43	961755	275.301	ug/l	100
52) Toluene	8.79	92	238947	52.962	ug/l	100
53) t-1,3-Dichloropropene	9.04	75	145854	53.067	ug/l	98
54) cis-1,3-Dichloropropene	8.43	75	162834	53.525	ug/l	99
55) 1,1,2-Trichloroethane	9.21	97	96519	52.438	ug/l	97
56) Ethyl methacrylate	9.18	69	177426	54.001	ug/l	98
57) 1,3-Dichloropropane	9.37	76	169094	52.205	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.31	63	421339	241.729	ug/l	99
59) 2-Hexanone	9.49	43	759485	276.808	ug/l	100
60) Dibromochloromethane	9.58	129	97414	54.188	ug/l	99
61) 1,2-Dibromoethane	9.67	107	98684	53.113	ug/l	99
64) Tetrachloroethene	9.33	164	83526	52.113	ug/l	97
65) Chlorobenzene	10.14	112	247582	52.967	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.22	131	90815	53.591	ug/l	99
67) Ethyl Benzene	10.25	91	459330	53.396	ug/l	99
68) m/p-Xylenes	10.36	106	342372	108.912	ug/l	100
69) o-Xylene	10.69	106	166027	53.529	ug/l	99
70) Styrene	10.71	104	293571	54.458	ug/l	100
71) Bromoform	10.85	173	74852	54.354	ug/l #	100
73) Isopropylbenzene	11.02	105	438849	50.702	ug/l	99
74) N-amyl acetate	10.90	43	268801	53.268	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.27	83	165011	51.141	ug/l	99
76) 1,2,3-Trichloropropane	11.29	75	141659m	51.308	ug/l	
77) Bromobenzene	11.26	156	110650	51.505	ug/l	99
78) n-propylbenzene	11.36	91	510677	51.662	ug/l	100
79) 2-Chlorotoluene	11.42	91	305999	50.176	ug/l	100
80) 1,3,5-Trimethylbenzene	11.51	105	377789	51.838	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.07	75	55003	50.972	ug/l	97
82) 4-Chlorotoluene	11.51	91	353327	51.284	ug/l	100
83) tert-Butylbenzene	11.77	119	362658	51.153	ug/l	99
84) 1,2,4-Trimethylbenzene	11.80	105	380287	51.986	ug/l	100
85) sec-Butylbenzene	11.94	105	433329	51.554	ug/l	100
86) p-Isopropyltoluene	12.06	119	393762	52.110	ug/l	100
87) 1,3-Dichlorobenzene	12.02	146	198504	51.832	ug/l	100
88) 1,4-Dichlorobenzene	12.10	146	199278	51.612	ug/l	99
89) n-Butylbenzene	12.38	91	358635	52.511	ug/l	99
90) Hexachloroethane	12.60	117	66556	51.700	ug/l	97
91) 1,2-Dichlorobenzene	12.39	146	201963	51.775	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.00	75	37899	52.359	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051119\
Data File : VX009531.D
Acq On : 11 May 2019 17:50
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

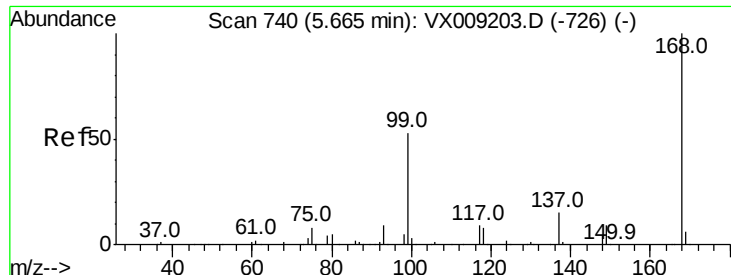
Manual Integrations
APPROVED

MMDadoda
5/13/2019 4:27:33 PM

Quant Time: May 12 02:39:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	141141	52.912	ug/l	99
94) Hexachlorobutadiene	13.78	225	70674	51.883	ug/l	99
95) Naphthalene	13.83	128	459014	52.891	ug/l	100
96) 1,2,3-Trichlorobenzene	14.02	180	140512	51.966	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 161574

Ion Ratio Lower Upper

168 100

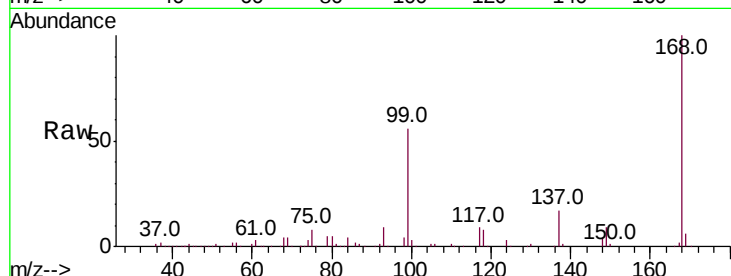
99 55.8 42.3 63.5

Manual Integrations

APPROVED

MMDadoda

5/13/2019 4:27:33 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

60000

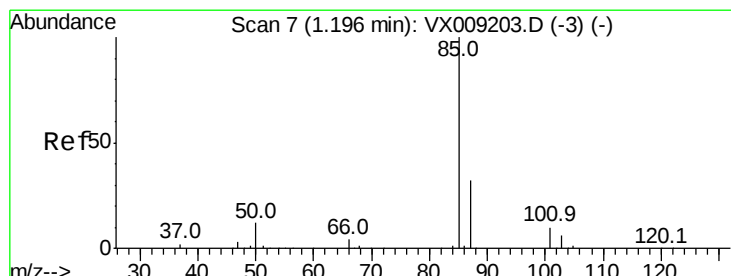
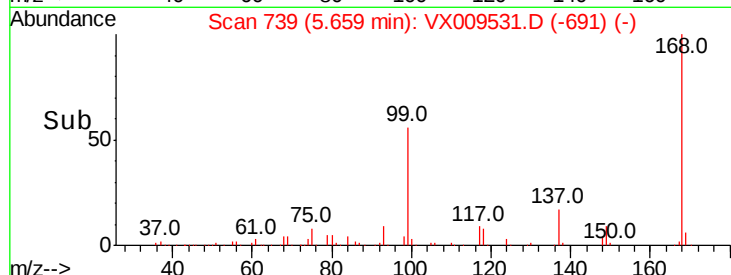
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 45.754 ug/l

RT: 1.20 min Scan# 7

Delta R.T. -0.00 min

Lab File: VX009531.D

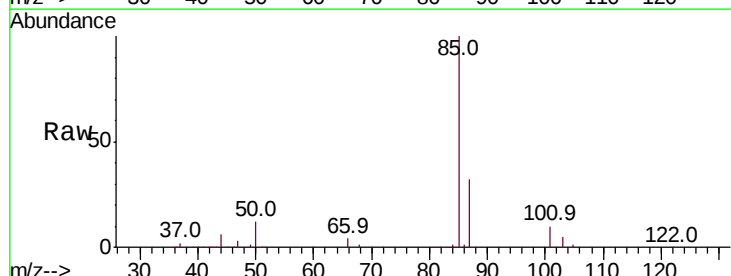
Acq: 11 May 2019 17:50

Tgt Ion: 85 Resp: 68124

Ion Ratio Lower Upper

85 100

87 32.1 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

60000

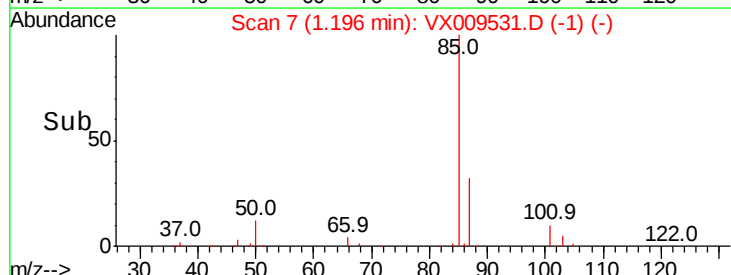
40000

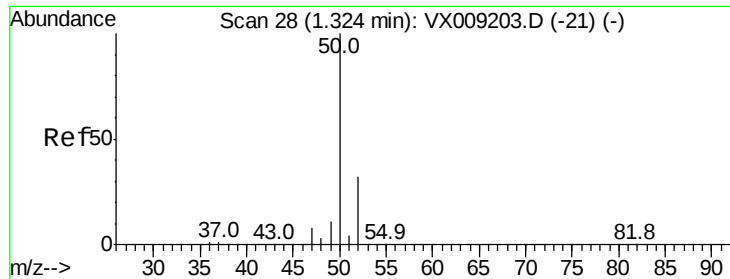
20000

0

Time-->

1.15 1.20 1.25 1.30





#3

Chloromethane

Concen: 49.404 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

Instrument :

MSVOA_X

ClientSampled :

VSTDCCC050EC

Tot Ion: 50 Resp: 100427

Ion Ratio Lower Upper

50 100

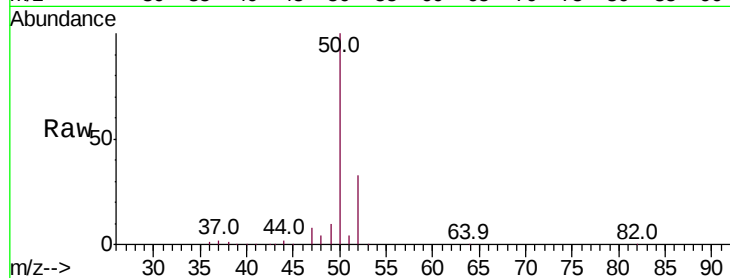
52 32.7 25.9 38.9

Manual Integrations

APPROVED

MMDadoda

5/13/2019 4:27:33 PM



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

100000

80000

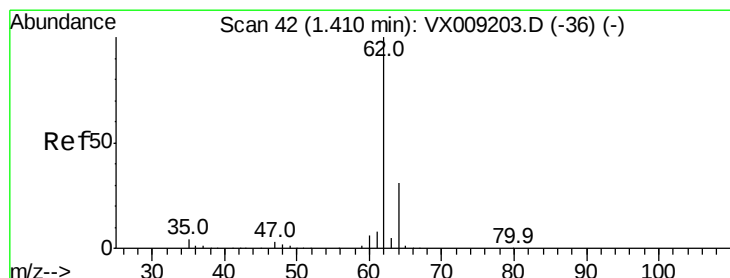
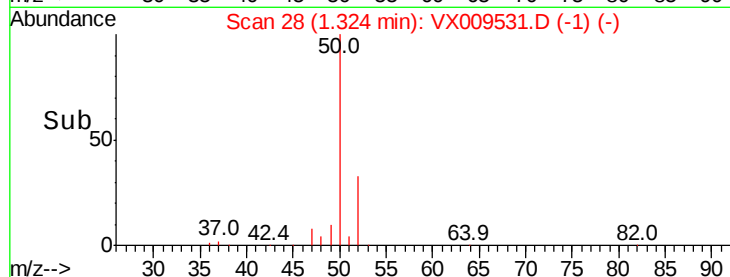
60000

40000

20000

0

Time--> 1.25 1.30 1.35 1.40



#4

Vinyl Chloride

Concen: 50.731 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX009531.D

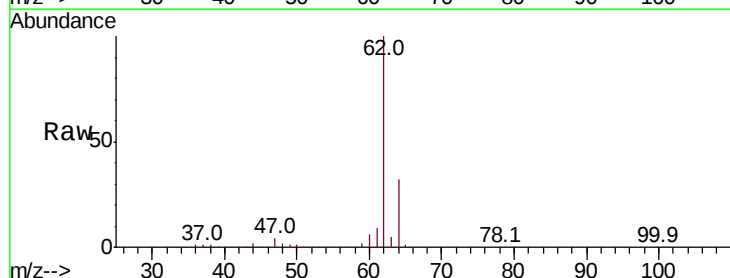
Acq: 11 May 2019 17:50

Tgt Ion: 62 Resp: 100559

Ion Ratio Lower Upper

62 100

64 31.5 24.6 36.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

100000

80000

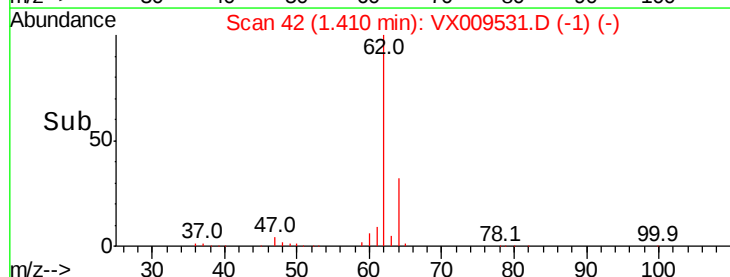
60000

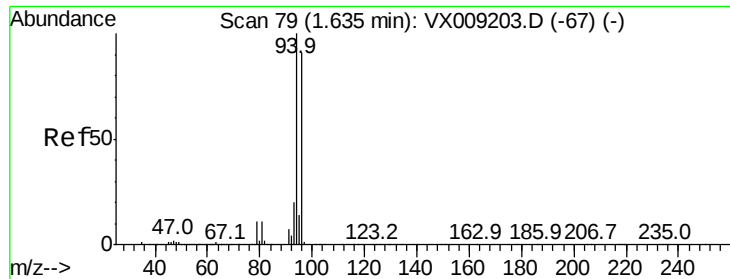
40000

20000

0

Time--> 1.35 1.40 1.45 1.50





#5

Bromomethane

Concen: 53.763 ug/l

RT: 1.64 min Scan# 79

Delta R.T. -0.00 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion: 94 Resp: 63964

Ion Ratio Lower Upper

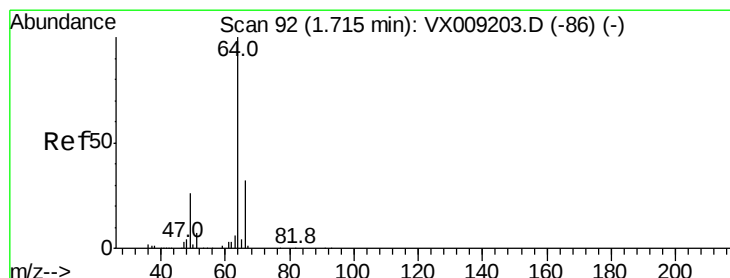
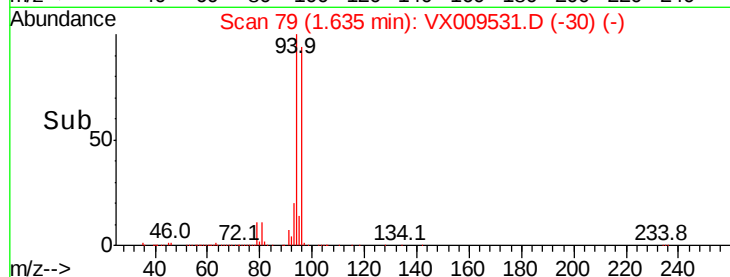
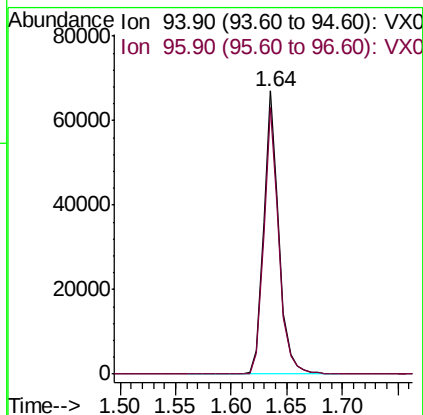
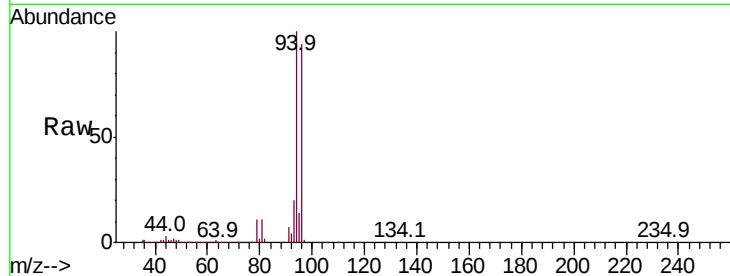
94 100

96 94.1 73.0 109.6

Manual Integrations
APPROVED

MMDadoda

5/13/2019 4:27:33 PM



#6

Chloroethane

Concen: 49.694 ug/l

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX009531.D

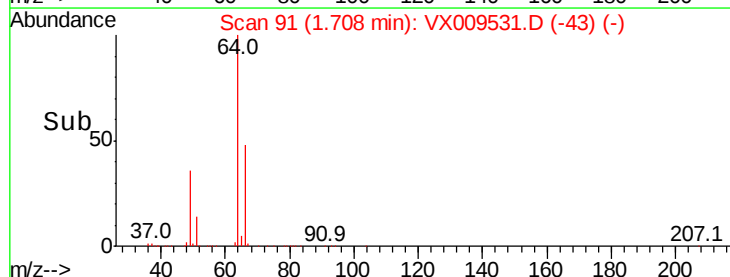
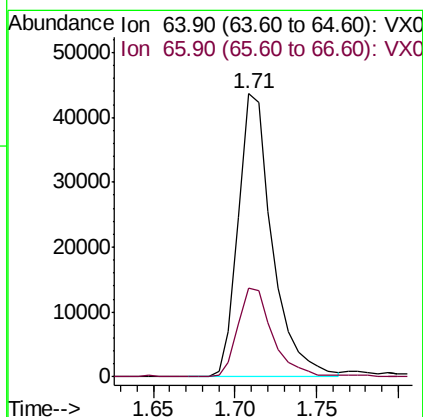
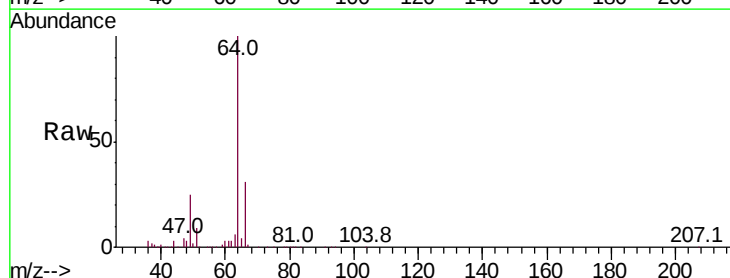
Acq: 11 May 2019 17:50

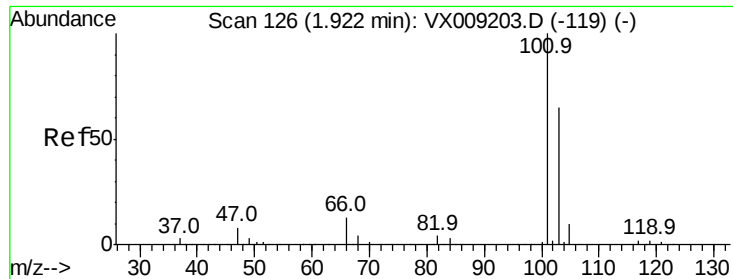
Tgt Ion: 64 Resp: 63243

Ion Ratio Lower Upper

64 100

66 31.0 25.3 37.9





#7

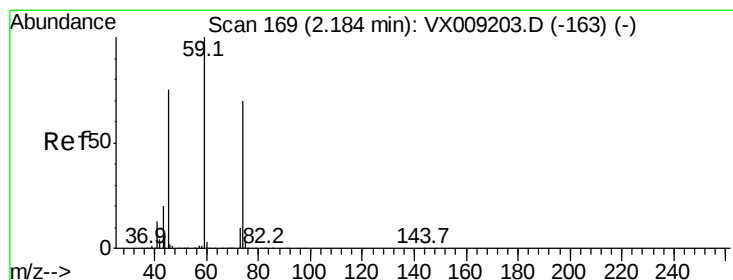
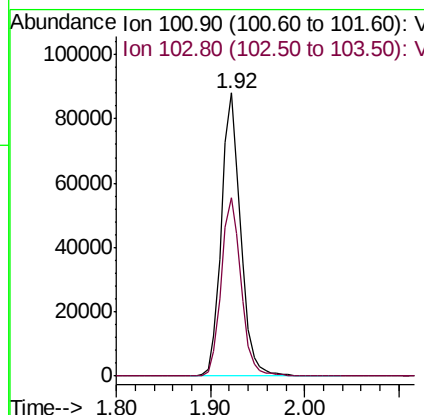
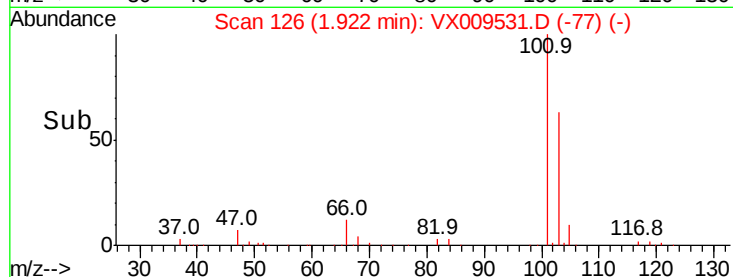
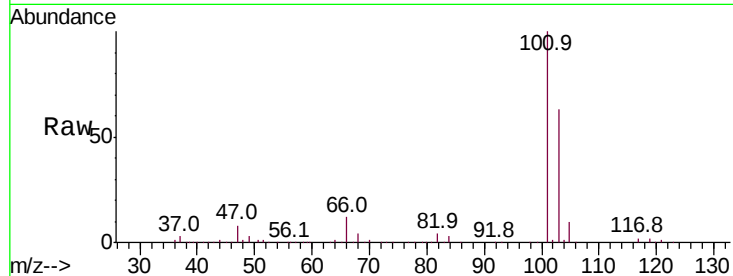
Trichlorofluoromethane
 Concen: 51.784 ug/l
 RT: 1.92 min Scan# 126
 Delta R.T. -0.00 min
 Lab File: VX009531.D
 Acq: 11 May 2019 17:50

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		124772		
103	63.1	52.4	78.6		

Manual Integrations
 APPROVED

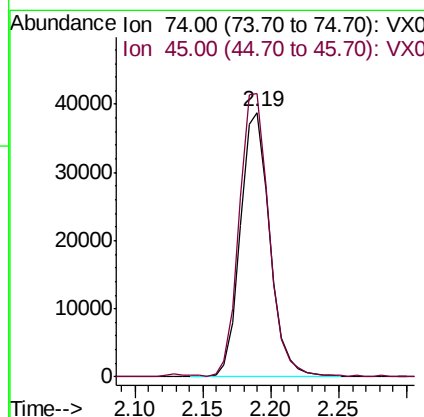
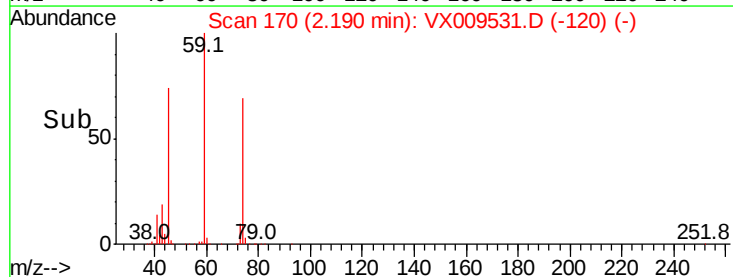
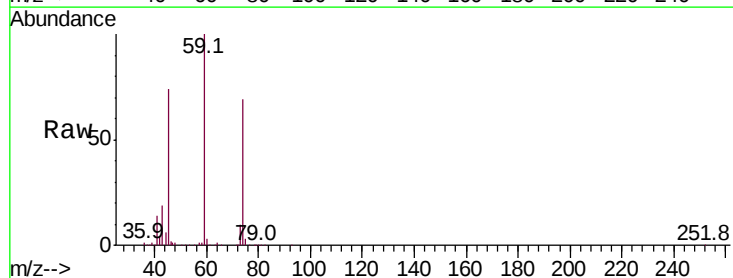
MMDadoda
 5/13/2019 4:27:33 PM

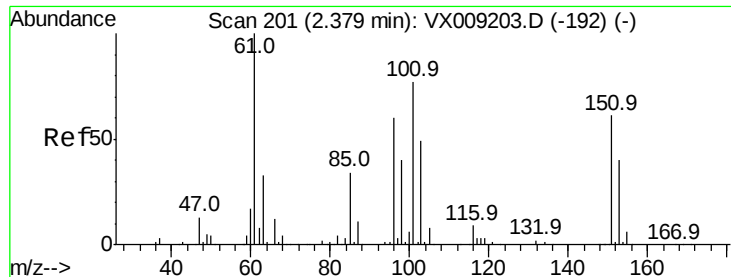


#8

Diethyl Ether
 Concen: 51.435 ug/l
 RT: 2.19 min Scan# 170
 Delta R.T. 0.01 min
 Lab File: VX009531.D
 Acq: 11 May 2019 17:50

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		58704		
45	108.6	53.3	159.9		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 50.581 ug/l

RT: 2.38 min Scan# 201

Delta R.T. -0.00 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

Instrument :

MSVOA_X

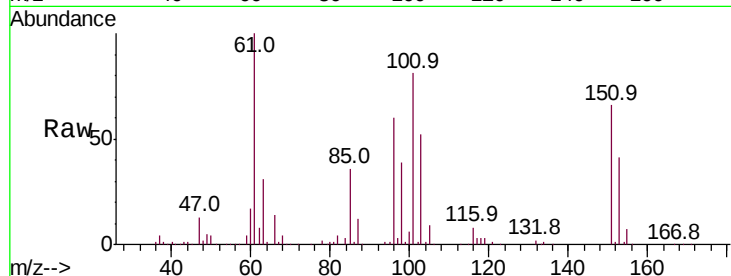
ClientSampleId :

VSTDCCC050EC

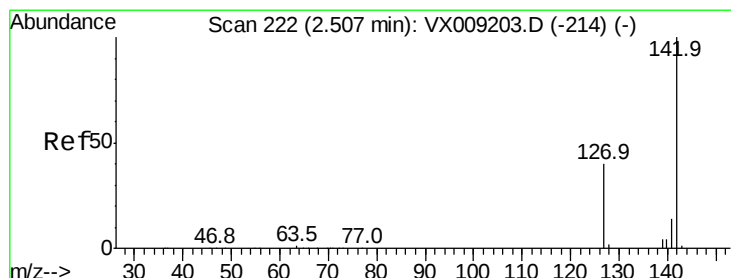
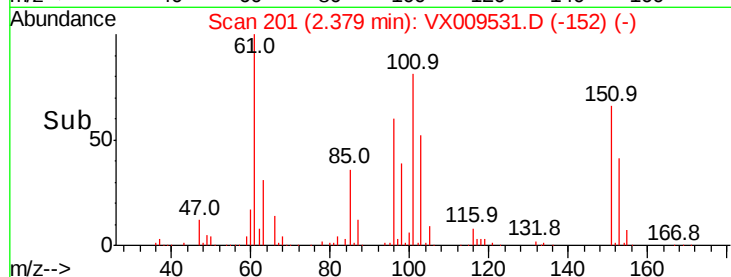
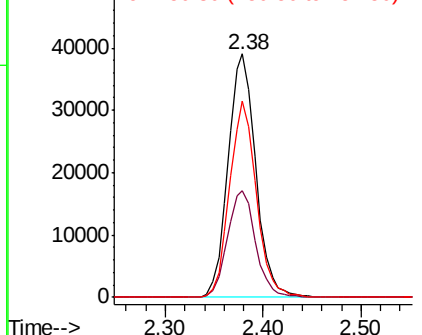
Tot Ion:	101	Resp:	76533
Ion Ratio	Lower	Upper	
101	100		
85	44.4	35.7	53.5
151	78.3	62.2	93.2

Manual Integrations
APPROVED

MMDadoda
5/13/2019 4:27:33 PM



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: 52.271 ug/l

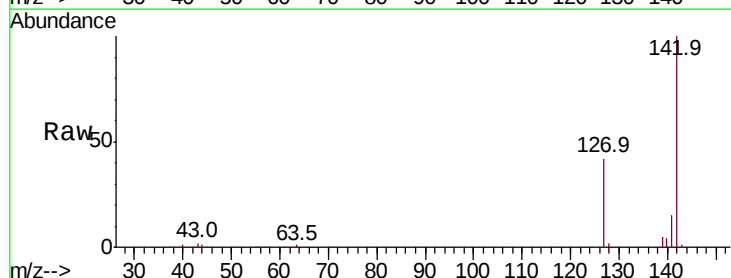
RT: 2.51 min Scan# 222

Delta R.T. -0.00 min

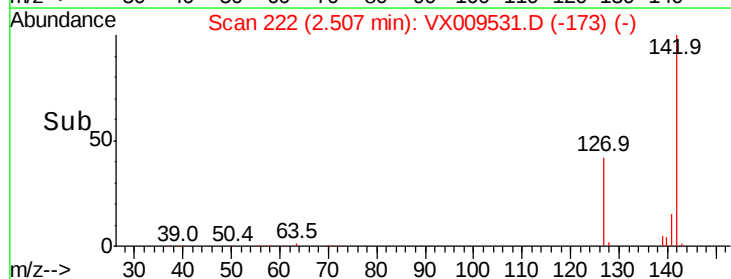
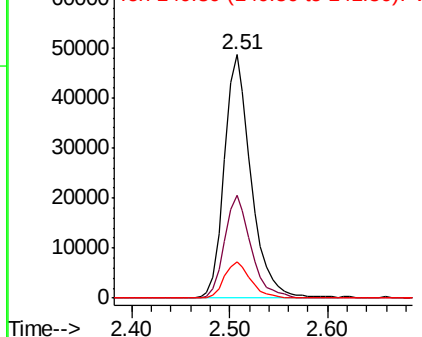
Lab File: VX009531.D

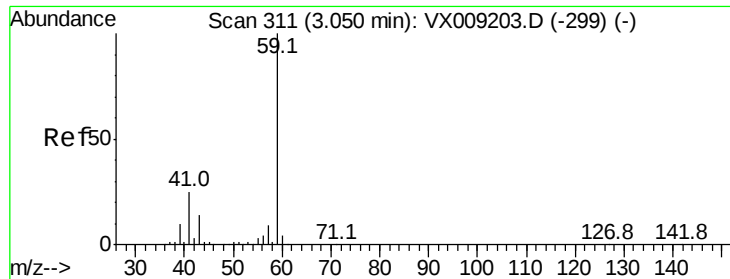
Acq: 11 May 2019 17:50

Tgt Ion:	142	Resp:	92298
Ion Ratio	Lower	Upper	
142	100		
127	41.8	32.7	49.1
141	14.7	11.5	17.3



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





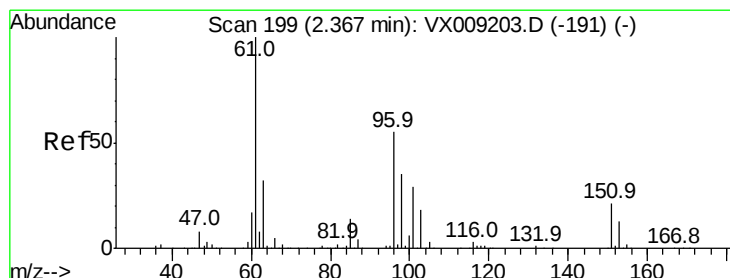
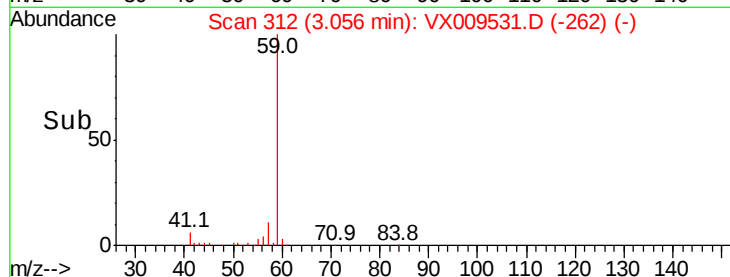
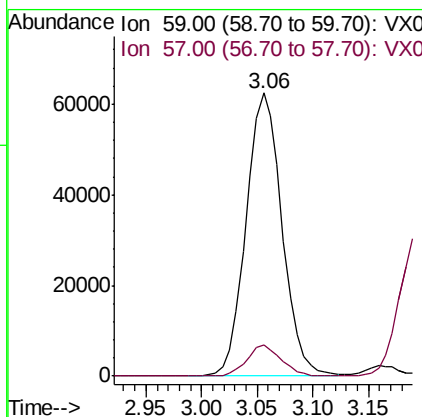
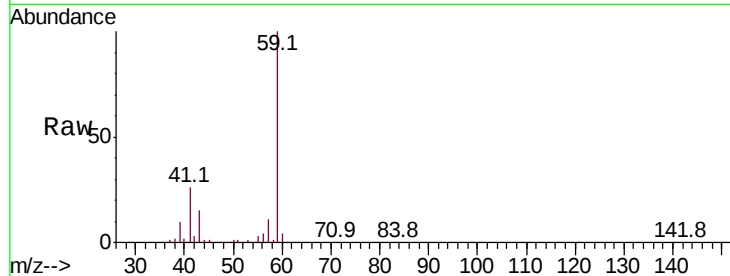
#11
Tert butyl alcohol
Concen: 275.172 ug/l
RT: 3.06 min Scan# 312
Delta R.T. 0.01 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tot Ion	59	Resp	140492
Ion Ratio	100	Lower	Upper
57	10.5	8.2	12.2

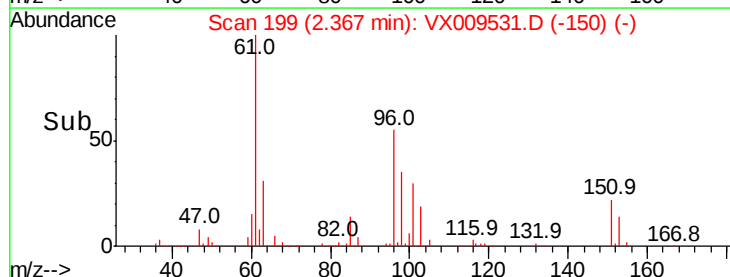
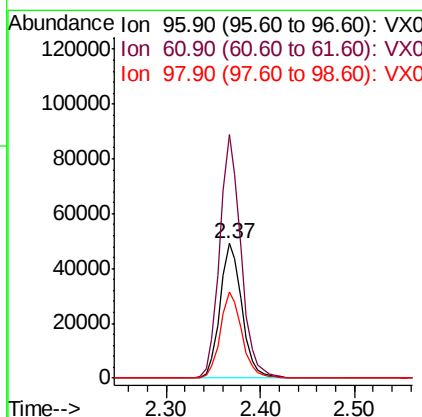
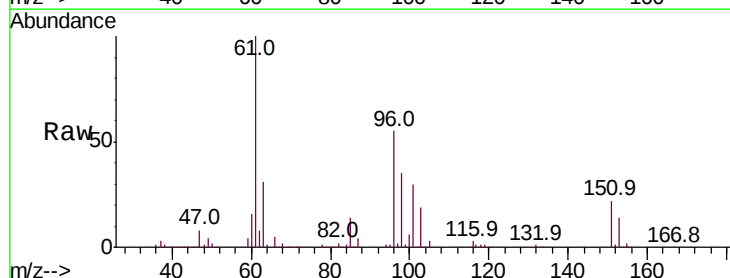
Manual Integrations
APPROVED

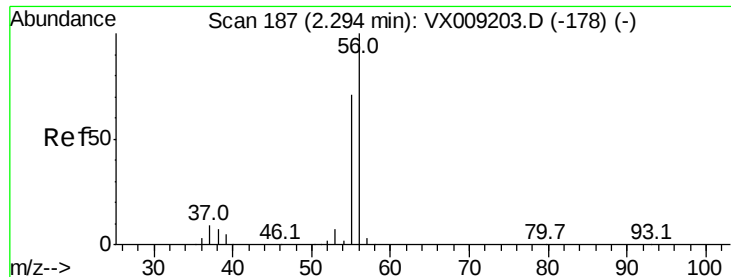
MMDadoda
5/13/2019 4:27:33 PM



#12
1,1-Dichloroethene
Concen: 52.028 ug/l
RT: 2.37 min Scan# 199
Delta R.T. -0.00 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Tgt Ion	96	Resp	78876
Ion Ratio	100	Lower	Upper
61	181.1	144.3	216.5
98	64.0	50.3	75.5





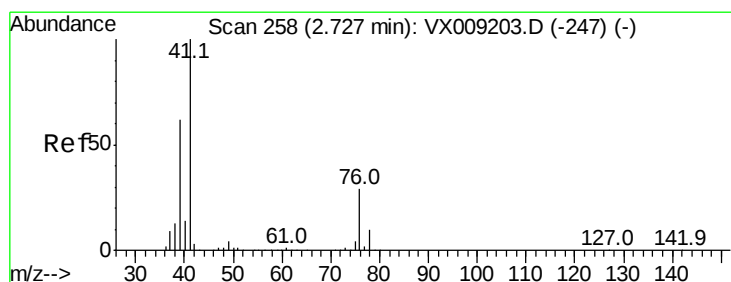
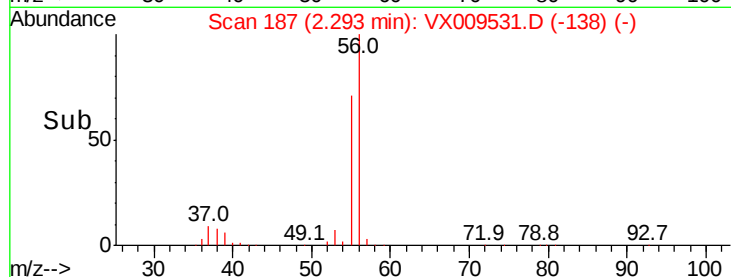
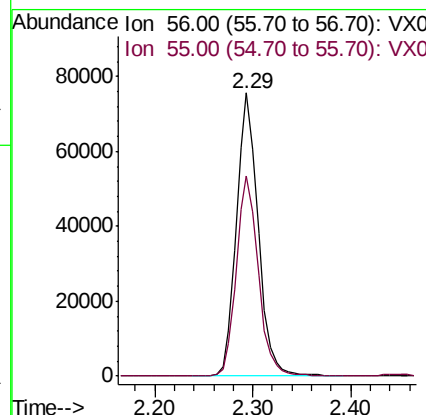
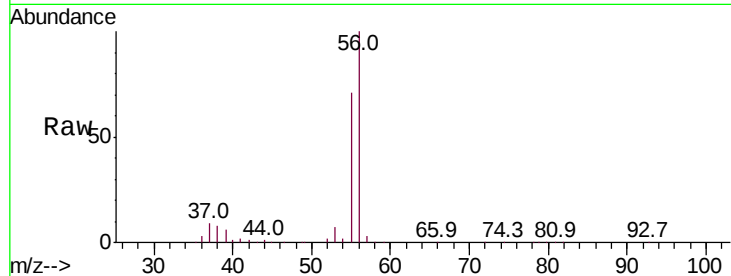
#13
Acrolein
Concen: 251.324 ug/l
RT: 2.29 min Scan# 187
Delta R.T. -0.00 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
56	100		
55	71.9	56.6	85.0

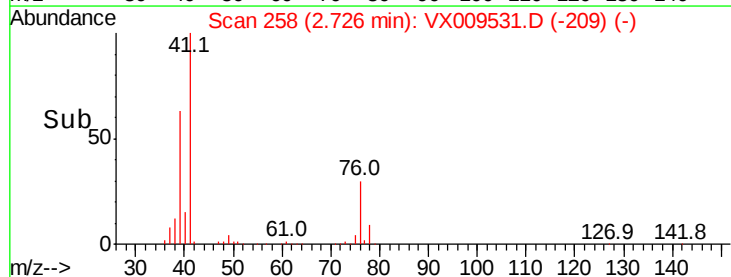
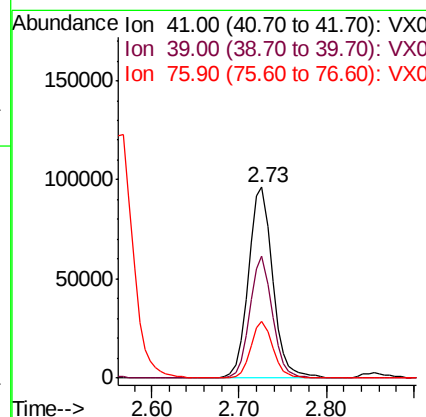
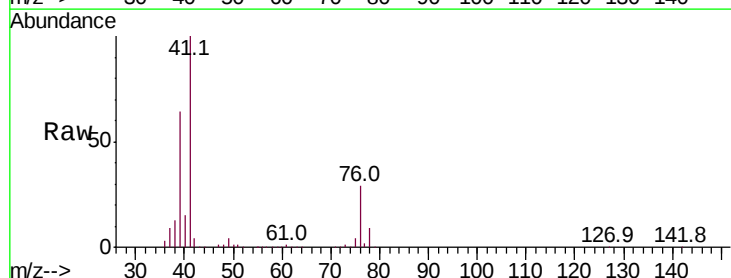
Manual Integrations
APPROVED

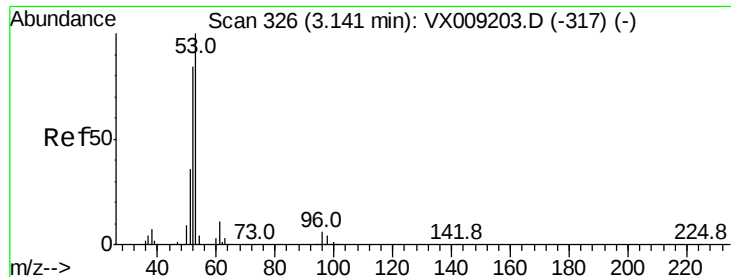
MMDadoda
5/13/2019 4:27:33 PM



#14
Allyl chloride
Concen: 50.284 ug/l
RT: 2.73 min Scan# 258
Delta R.T. -0.00 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Tgt Ion	Ratio	Lower	Upper
41	100		
39	59.0	46.7	70.1
76	26.9	21.8	32.8





#15

Acrylonitrile

Concen: 259.996 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

Instrument :

MSVOA_X

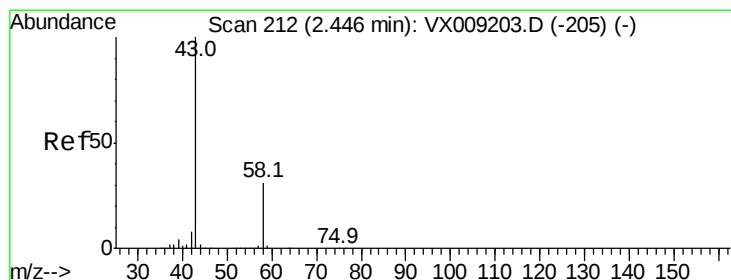
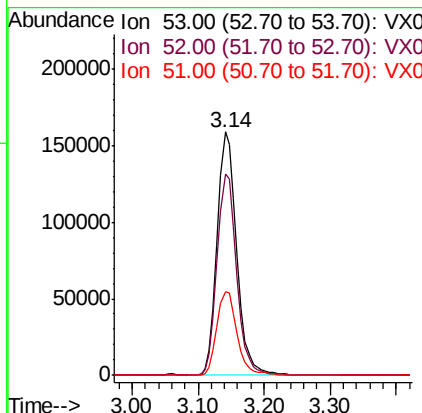
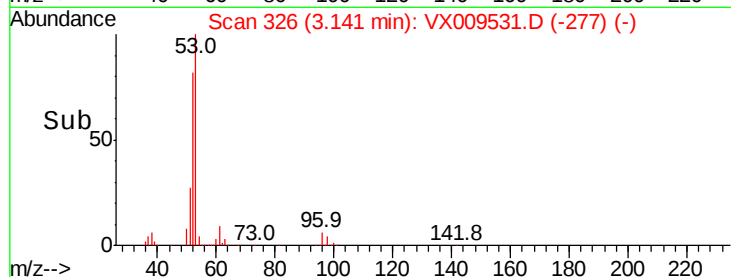
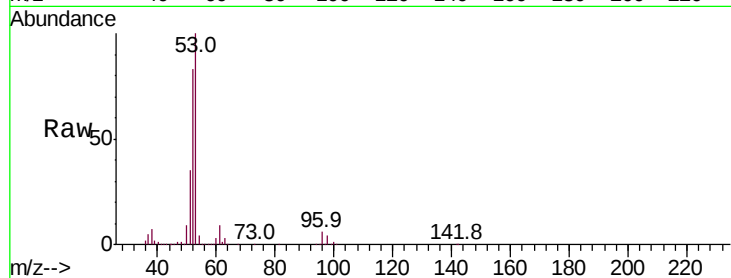
ClientSampleId :

VSTDCCC050EC

Tot Ion:	53	Resp:	324568
Ion	Ratio	Lower	Upper
53	100		
52	83.0	66.9	100.3
51	35.8	28.2	42.2

Manual Integrations
APPROVED

MMDadoda
5/13/2019 4:27:33 PM



#16

Acetone

Concen: 240.962 ug/l

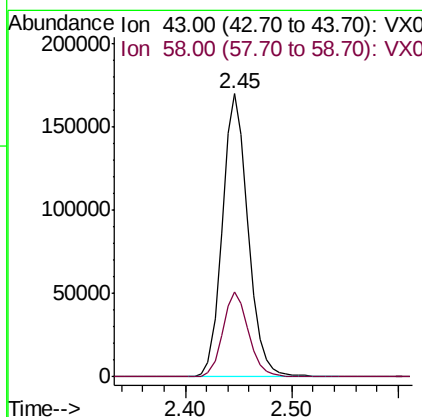
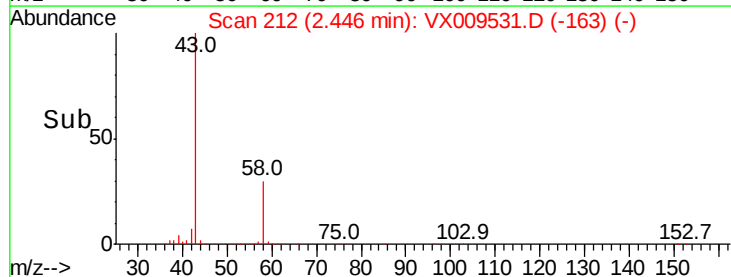
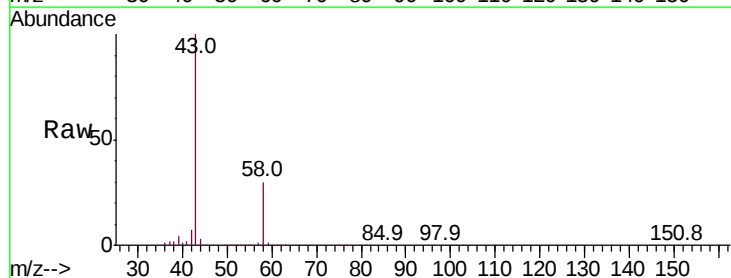
RT: 2.45 min Scan# 212

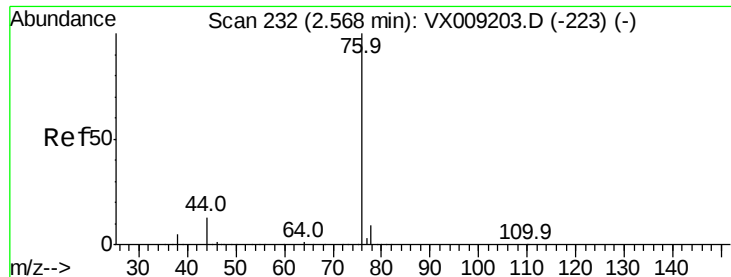
Delta R.T. -0.00 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

Tgt Ion:	43	Resp:	285386
Ion	Ratio	Lower	Upper
43	100		
58	30.1	24.9	37.3





#17

Carbon Disulfide

Concen: 51.986 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion: 76 Resp: 221272

Ion Ratio Lower Upper

76 100

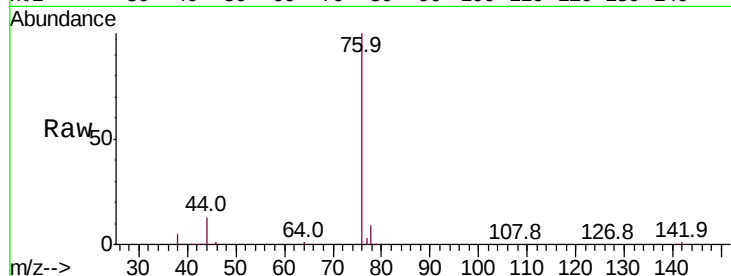
78 9.4 7.4 11.0

Manual Integrations

APPROVED

MMDadoda

5/13/2019 4:27:33 PM



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

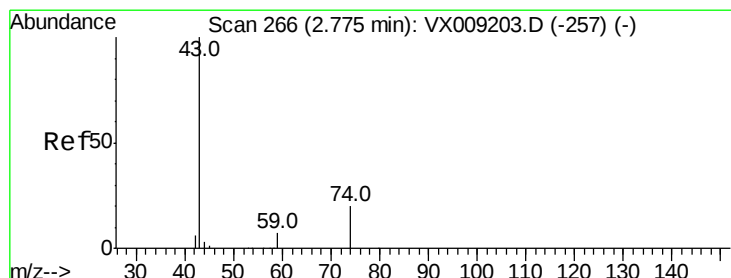
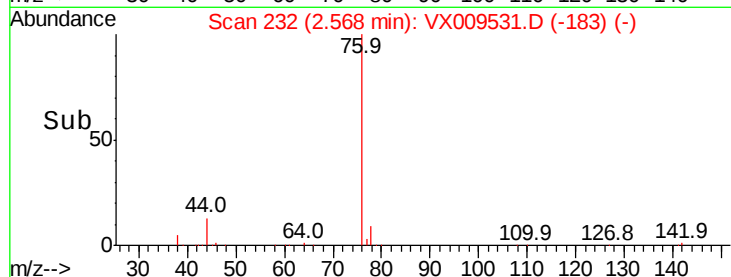
2.57

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 49.914 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.00 min

Lab File: VX009531.D

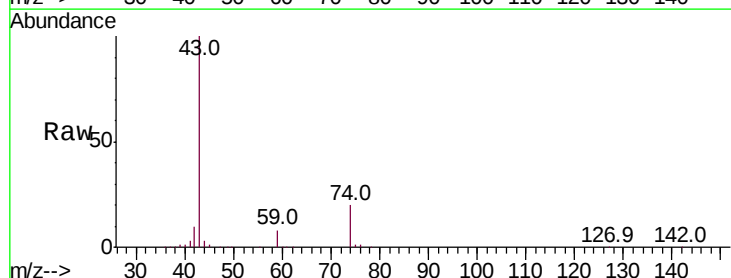
Acq: 11 May 2019 17:50

Tgt Ion: 43 Resp: 140590

Ion Ratio Lower Upper

43 100

74 20.1 16.2 24.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

80000

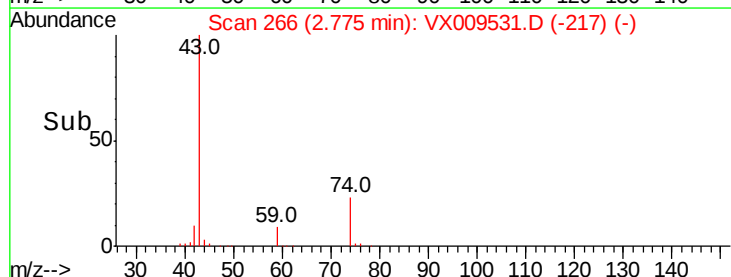
60000

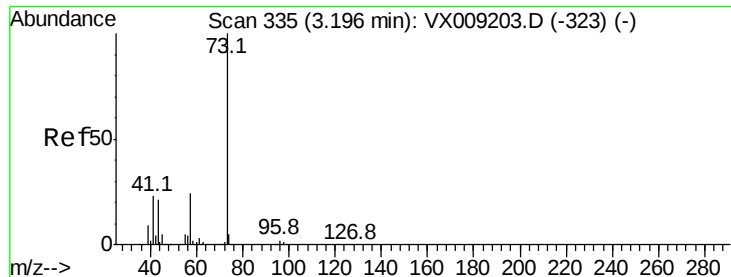
40000

20000

0

Time-->





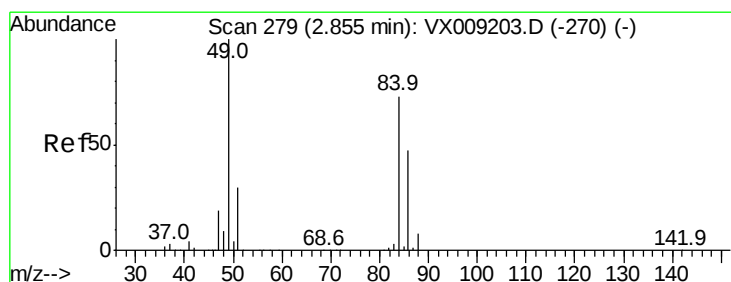
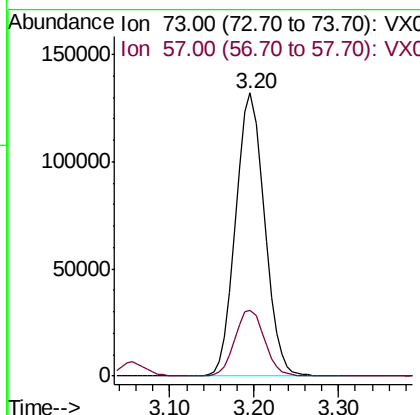
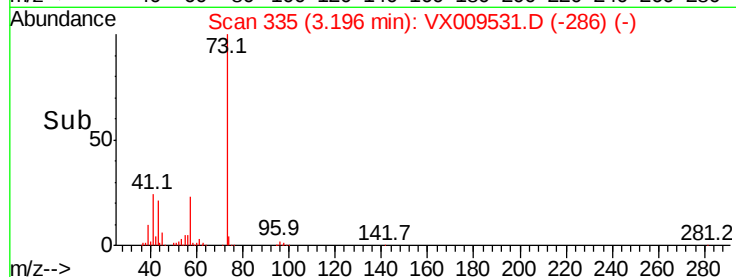
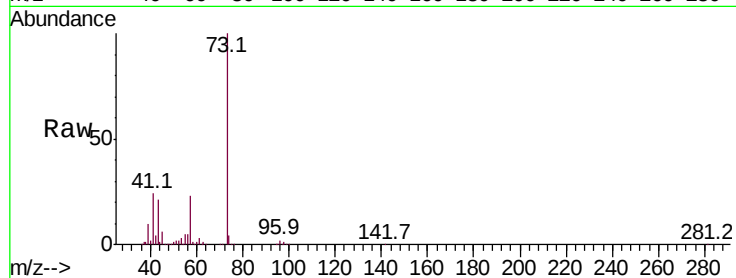
#19
Methvl tert-butvl Ether
Concen: 52.032 ug/l
RT: 3.20 min Scan# 335
Delta R.T. -0.00 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tot Ion: 73 Resp: 306317
Ion Ratio Lower Upper
73 100
57 23.3 19.3 28.9

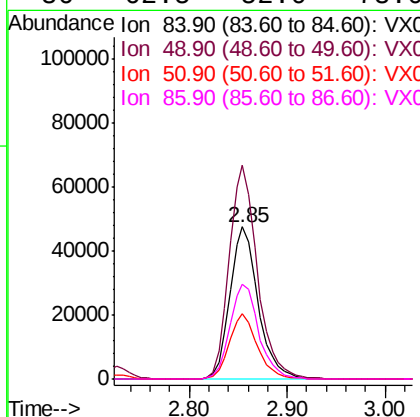
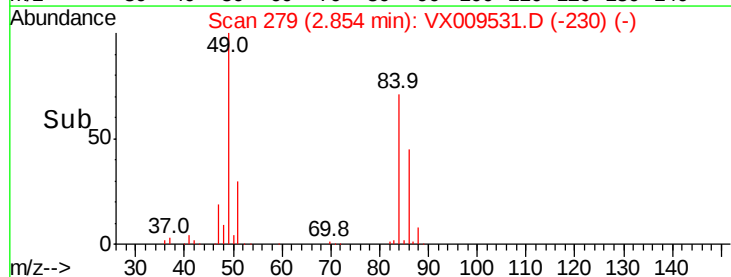
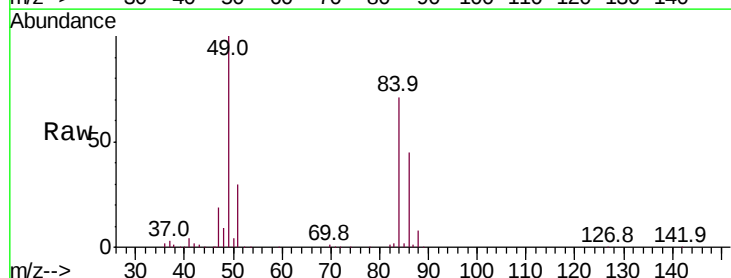
Manual Integrations
APPROVED

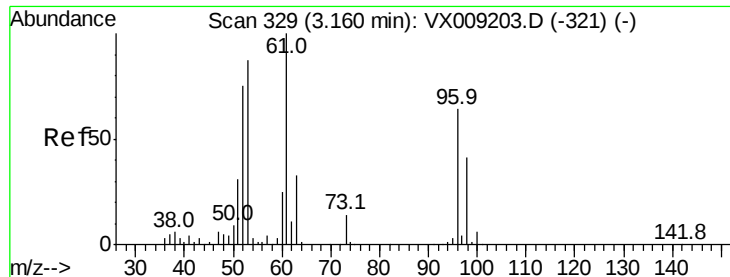
MMDadoda
5/13/2019 4:27:33 PM



#20
Methylene Chloride
Concen: 49.644 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Tgt Ion: 84 Resp: 95199
Ion Ratio Lower Upper
84 100
49 140.0 109.9 164.9
51 42.5 32.7 49.1
86 62.5 52.0 78.0





#21

trans-1,2-Dichloroethene

Concen: 52.159 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.01 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion: 96 Resp: 85757

Ion Ratio Lower Upper

96 100

61 152.3 124.5 186.7

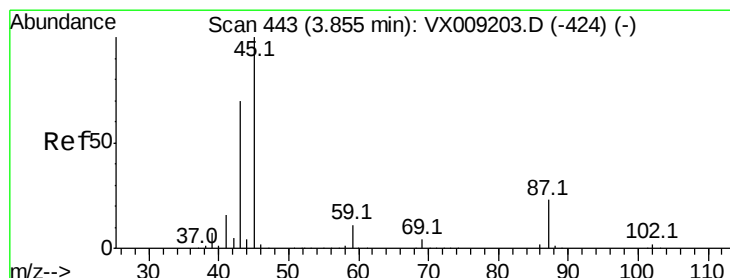
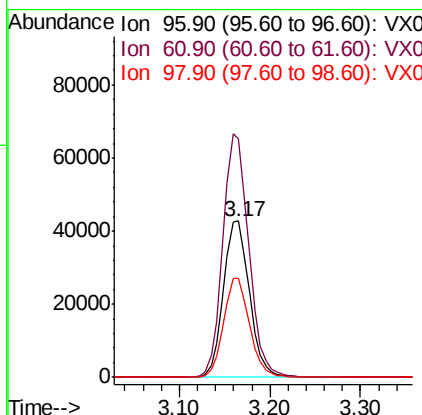
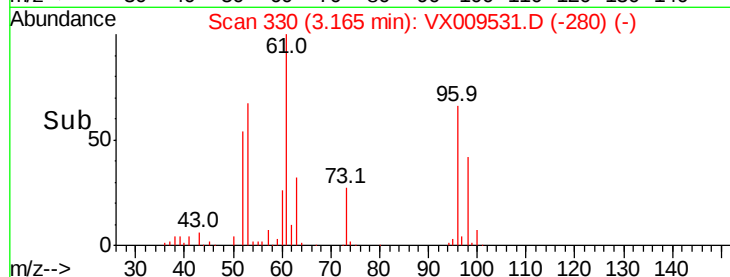
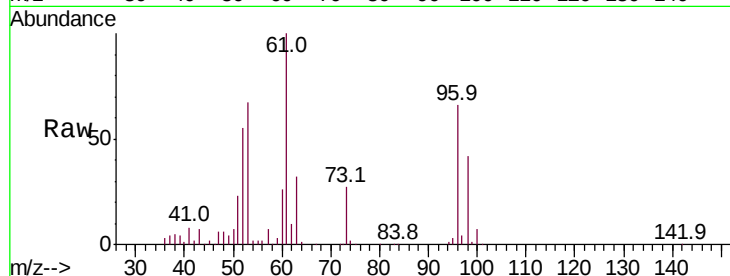
98 63.5 50.4 75.6

Manual Integrations

APPROVED

MMDadoda

5/13/2019 4:27:33 PM



#22

Diisopropyl ether

Concen: 51.896 ug/l

RT: 3.85 min Scan# 443

Delta R.T. -0.00 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

Tgt Ion: 45 Resp: 368727

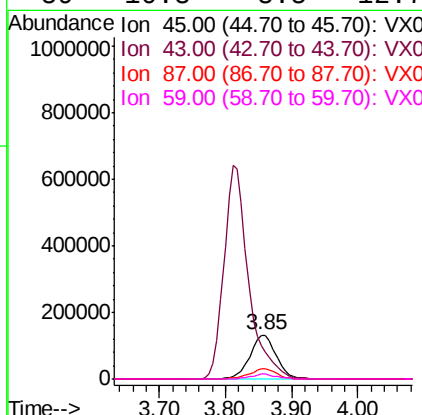
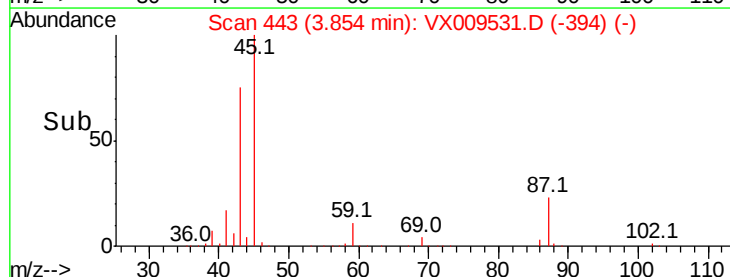
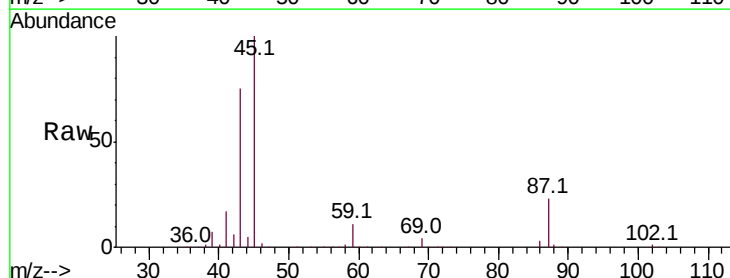
Ion Ratio Lower Upper

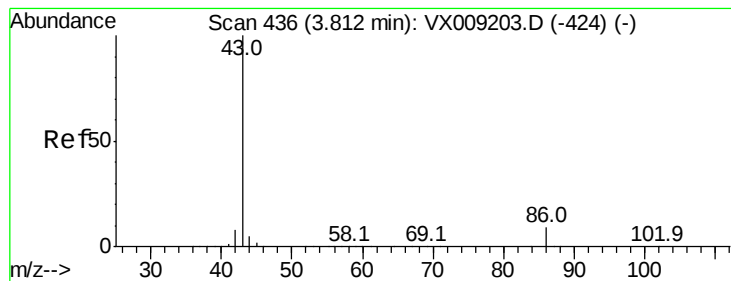
45 100

43 74.7 56.1 84.1

87 23.4 18.1 27.1

59 10.8 8.5 12.7





#23

Vinyl Acetate

Concen: 272.345 ug/l

RT: 3.81 min Scan# 436

Delta R.T. -0.00 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 1656995

Ion Ratio Lower Upper

43 100

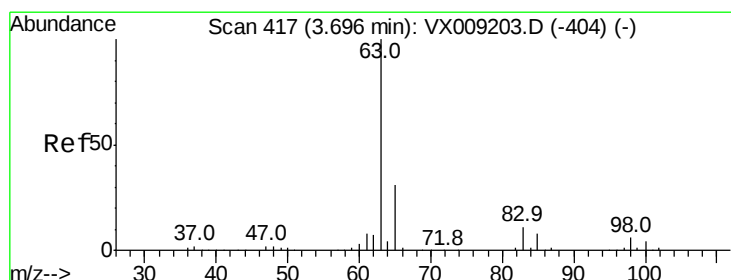
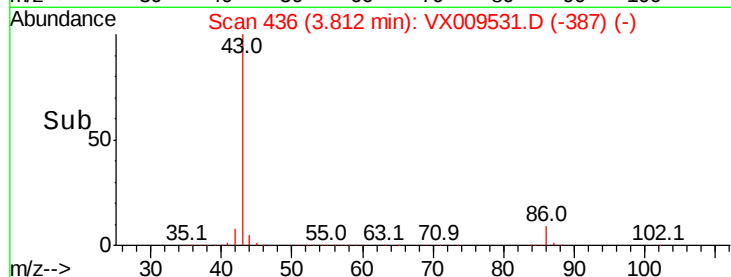
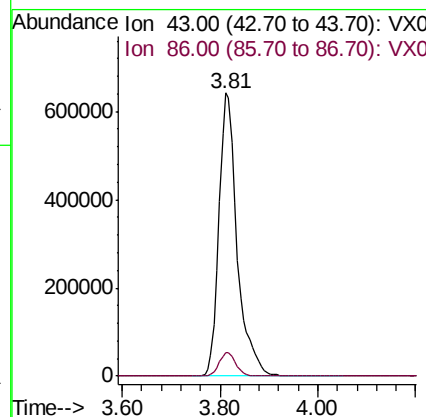
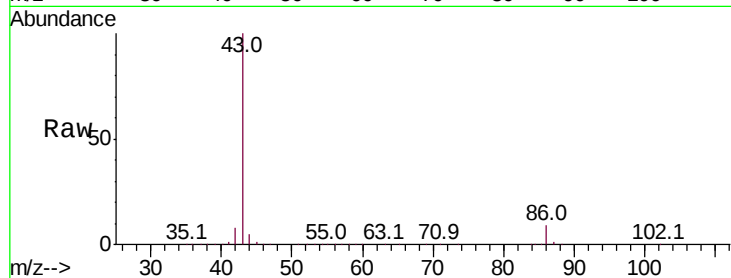
86 8.5 6.9 10.3

Manual Integrations

APPROVED

MMDadoda

5/13/2019 4:27:33 PM



#24

1,1-Dichloroethane

Concen: 50.965 ug/l

RT: 3.70 min Scan# 417

Delta R.T. -0.00 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

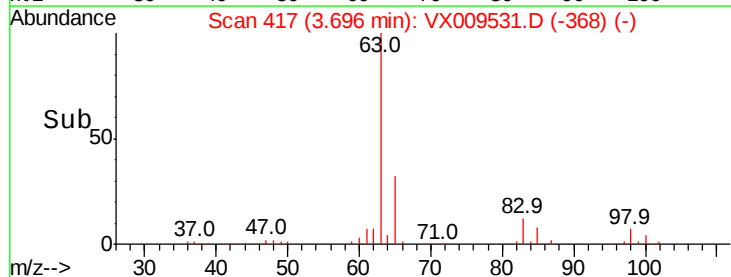
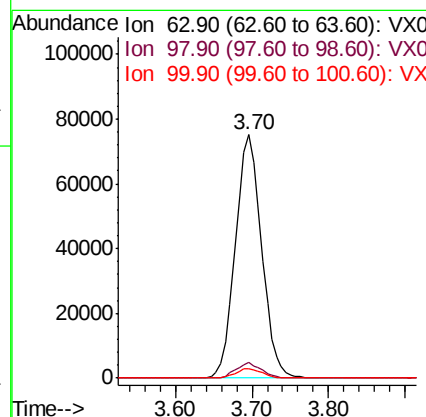
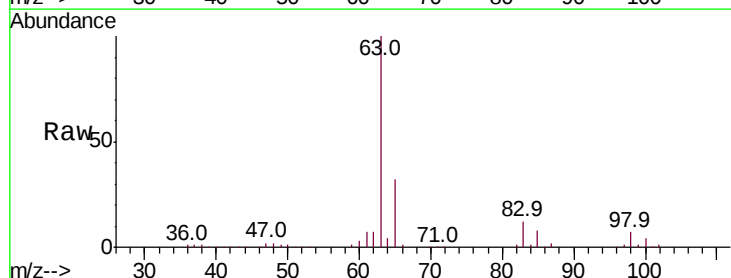
Tgt Ion: 63 Resp: 178633

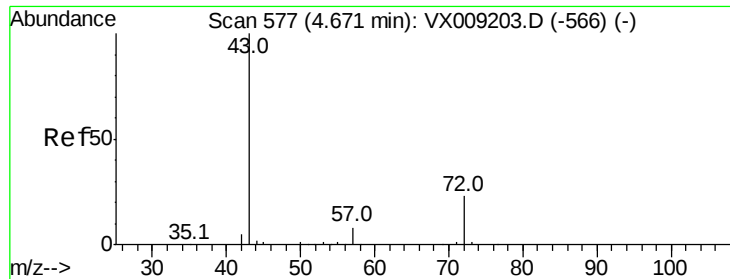
Ion Ratio Lower Upper

63 100

98 6.6 3.0 9.2

100 4.0 2.0 6.0





#25

2-Butanone

Concen: 262.260 ug/l

RT: 4.68 min Scan# 578

Delta R.T. 0.01 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 482680

Ion Ratio Lower Upper

43 100

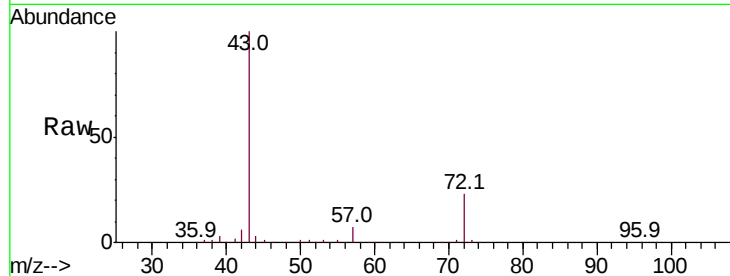
72 22.8 18.2 27.2

Manual Integrations

APPROVED

MMDadoda

5/13/2019 4:27:33 PM



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

200000

150000

100000

50000

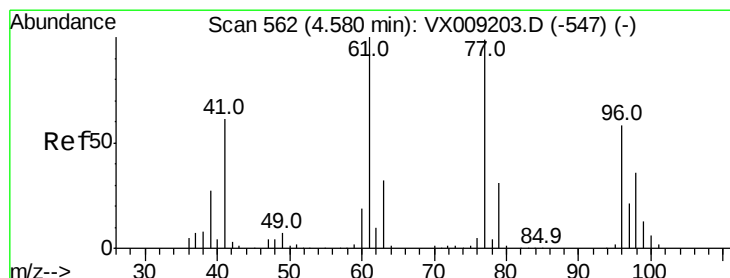
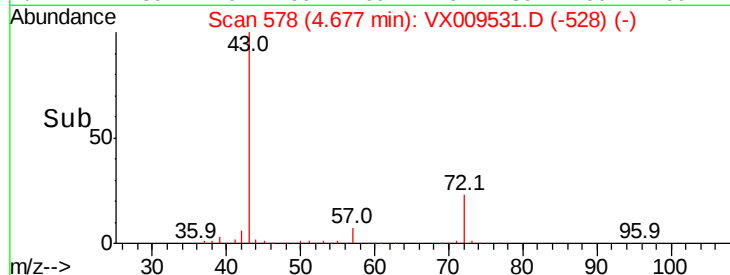
0

4.60

4.70

4.80

Time-->



#26

2,2-Dichloropropane

Concen: 45.296 ug/l

RT: 4.58 min Scan# 562

Delta R.T. -0.00 min

Lab File: VX009531.D

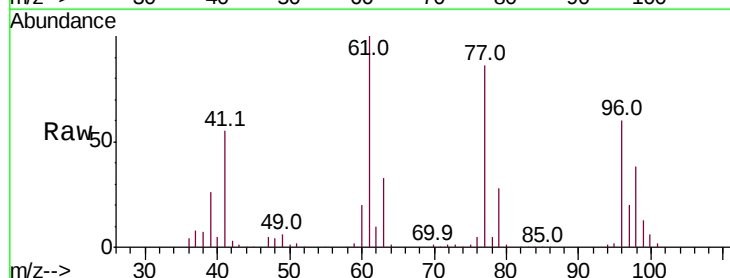
Acq: 11 May 2019 17:50

Tgt Ion: 77 Resp: 118174

Ion Ratio Lower Upper

77 100

97 23.1 11.5 34.4



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0

40000

30000

20000

10000

0

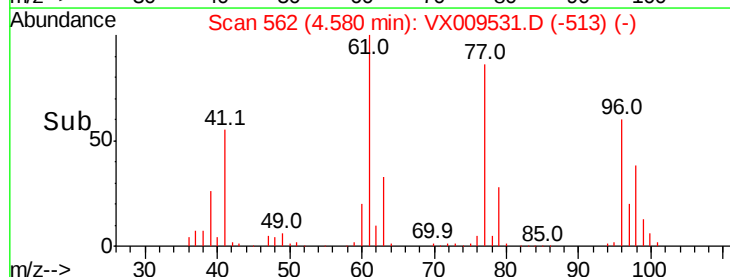
4.40

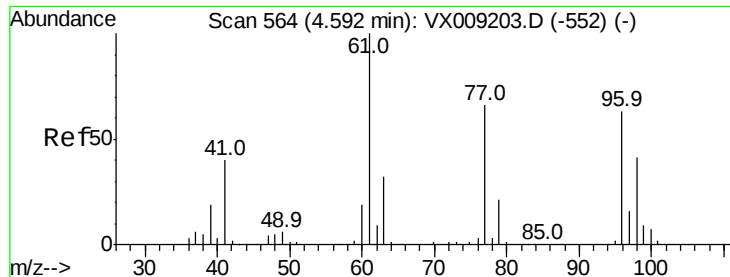
4.50

4.60

4.70

Time-->





#27

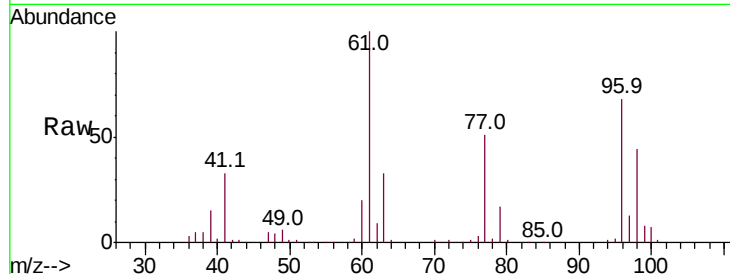
cis-1,2-Dichloroethene
 Concen: 51.469 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. 0.01 min
 Lab File: VX009531.D
 Acq: 11 May 2019 17:50

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050EC

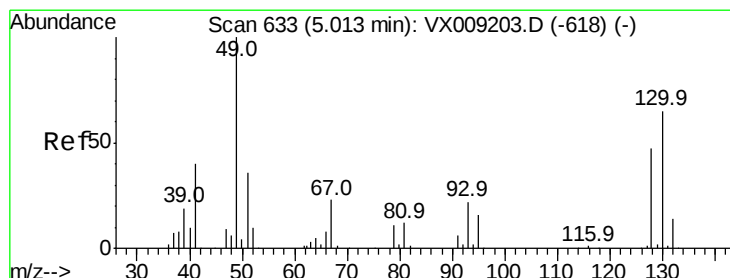
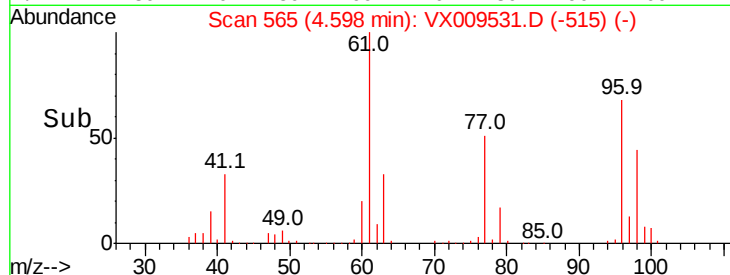
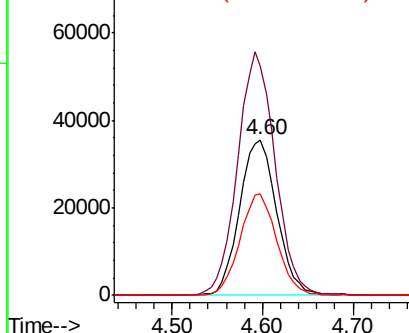
Tot Ion	Ratio	Resp	Lower	Upper
96	100	101006		
61	158.4	0.0	324.0	
98	64.6	0.0	130.4	

Manual Integrations
 APPROVED

MMDadoda
 5/13/2019 4:27:33 PM



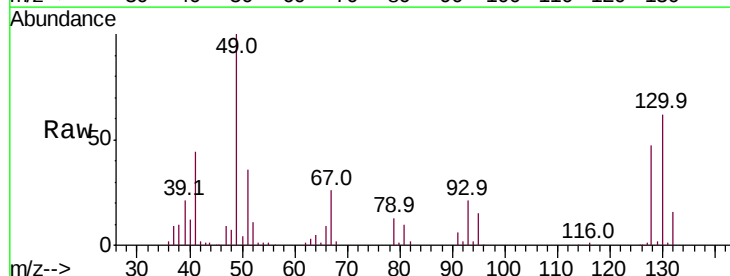
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



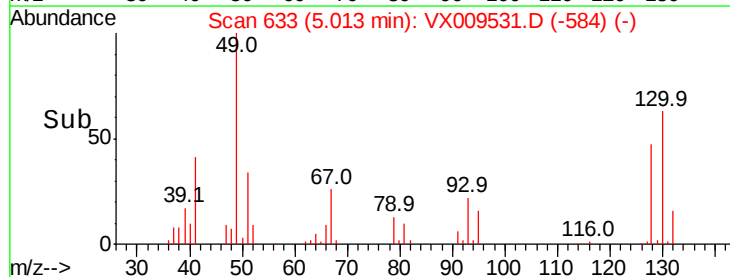
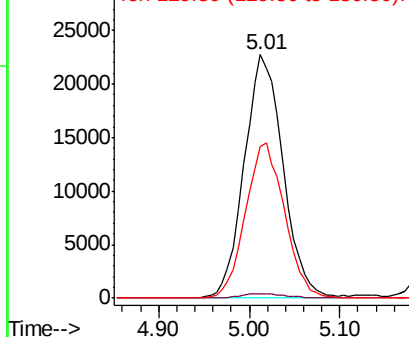
#28

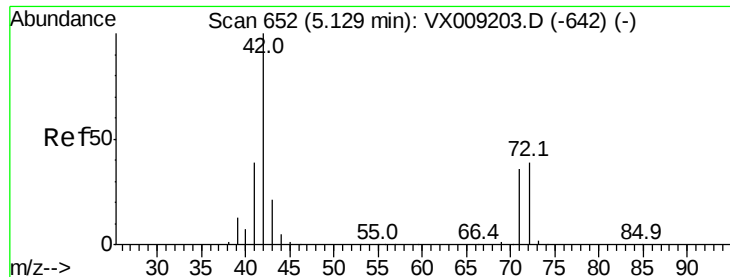
Bromochloromethane
 Concen: 47.635 ug/l
 RT: 5.01 min Scan# 633
 Delta R.T. 0.00 min
 Lab File: VX009531.D
 Acq: 11 May 2019 17:50

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	67393		
129	2.0	0.0	3.8	
130	64.1	51.2	76.8	



Abundance Ion 48.90 (48.60 to 49.60): VX0
 Ion 128.80 (128.50 to 129.50): V
 Ion 129.80 (129.50 to 130.50): V





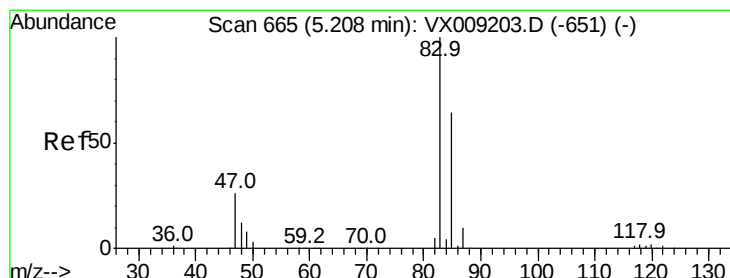
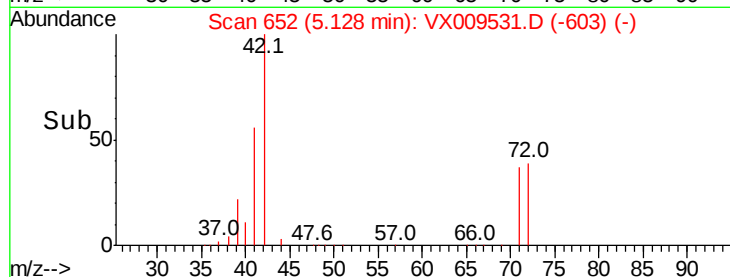
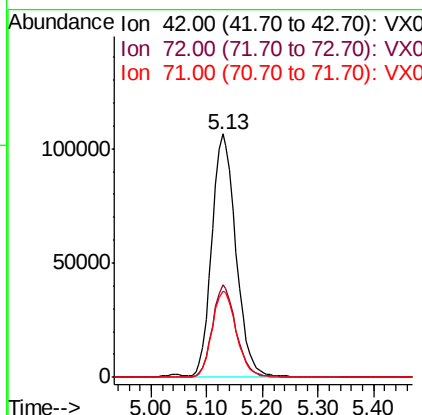
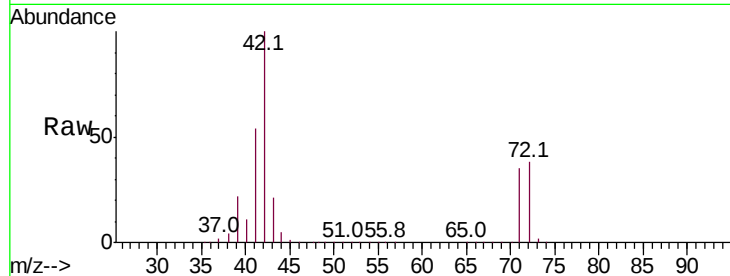
#29
Tetrahydrofuran
Concen: 270.691 ug/l
RT: 5.13 min Scan# 652
Delta R.T. -0.00 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.5	30.4	45.6
71	35.6	28.6	43.0

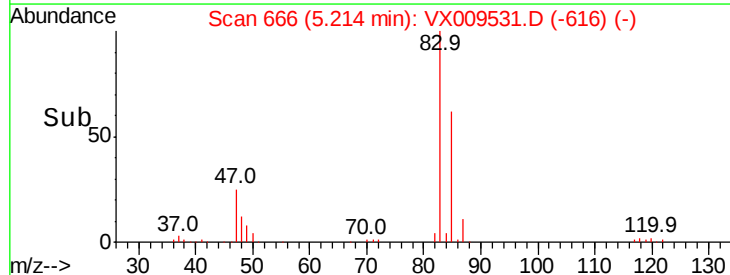
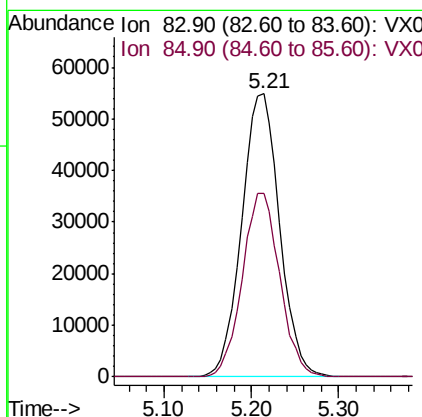
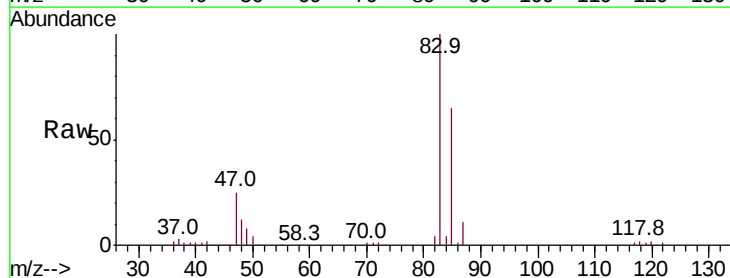
Manual Integrations
APPROVED

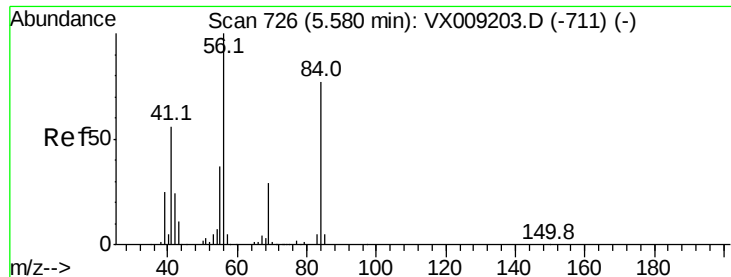
MMDadoda
5/13/2019 4:27:33 PM



#30
Chloroform
Concen: 52.043 ug/l
RT: 5.21 min Scan# 666
Delta R.T. 0.01 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.5	77.3





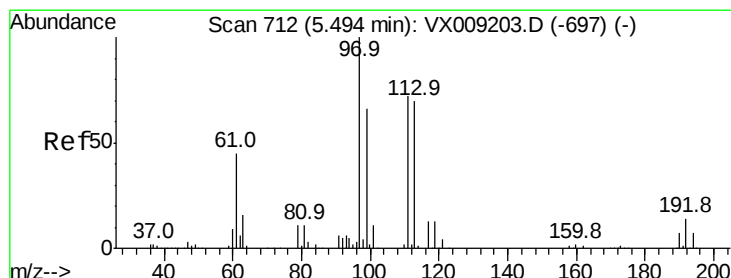
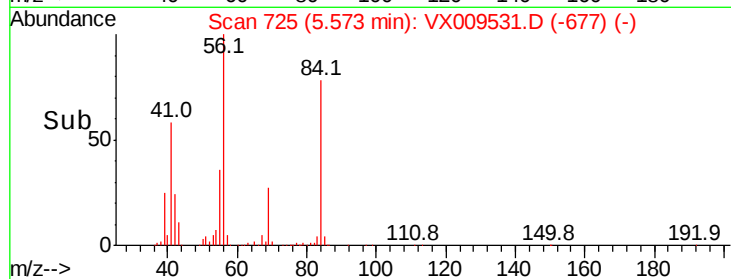
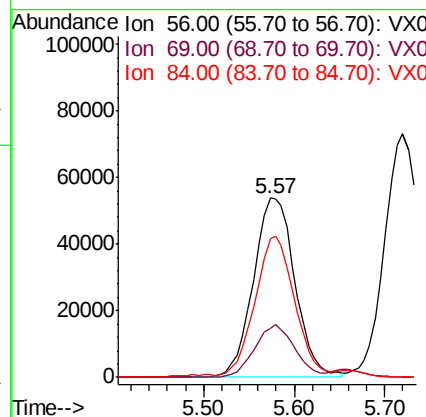
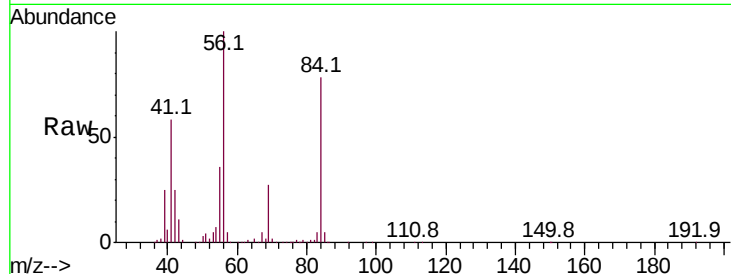
#31
Cyclohexane
Concen: 52.317 ug/l
RT: 5.57 min Scan# 725
Delta R.T. -0.01 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
56	100		
69	27.2	23.4	35.0
84	76.2	61.9	92.9

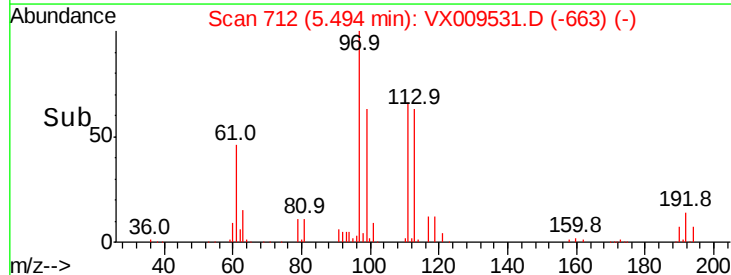
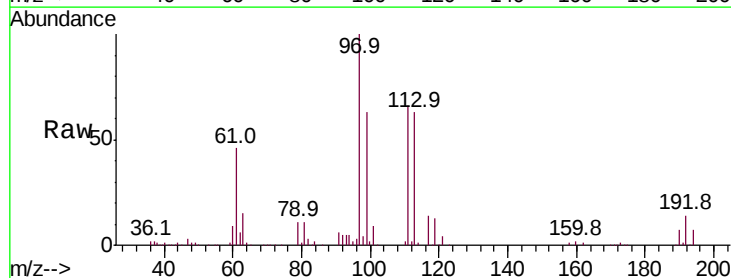
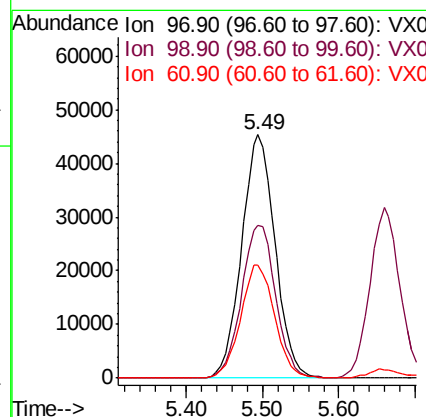
Manual Integrations
APPROVED

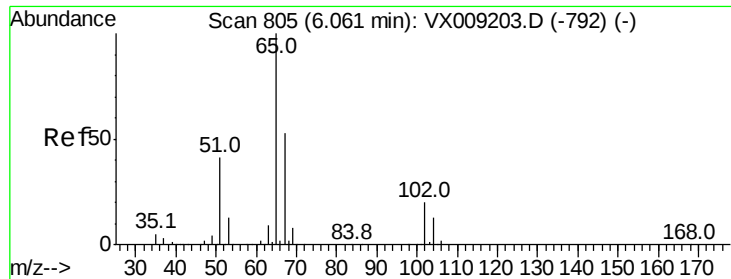
MMDadoda
5/13/2019 4:27:33 PM



#32
1,1,1-Trichloroethane
Concen: 52.130 ug/l
RT: 5.49 min Scan# 712
Delta R.T. -0.00 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.8	77.8
61	47.2	37.8	56.8





#33

1,2-Dichloroethane-d4

Concen: 51.207 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion: 65 Resp: 112946

Ion Ratio Lower Upper

65 100

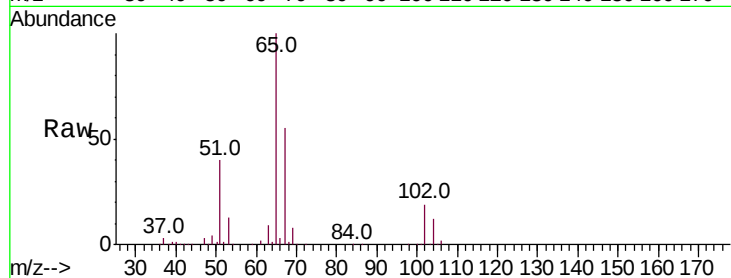
67 53.1 0.0 106.6

Manual Integrations

APPROVED

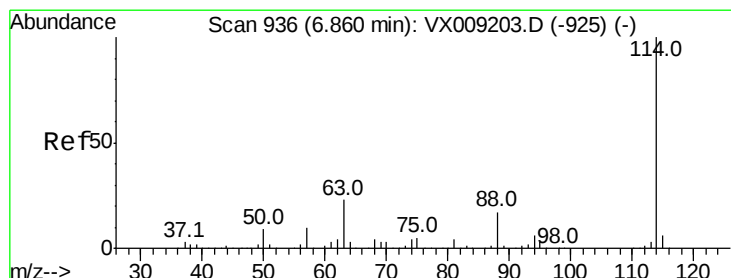
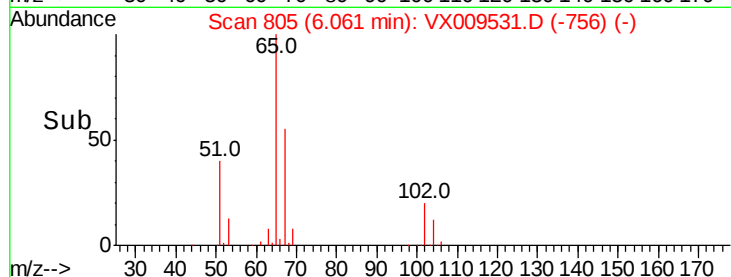
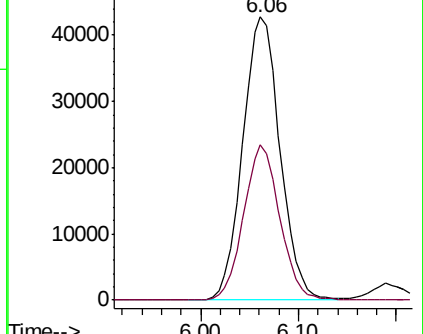
MMDadoda

5/13/2019 4:27:33 PM



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: VX009531.D

Acq: 11 May 2019 17:50

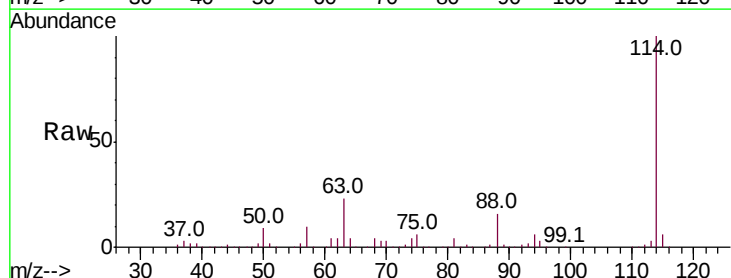
Tgt Ion: 114 Resp: 258063

Ion Ratio Lower Upper

114 100

63 23.4 0.0 45.6

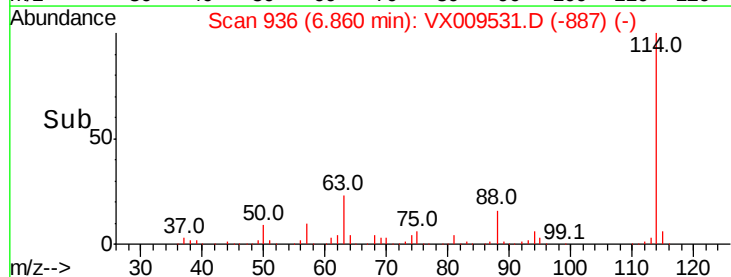
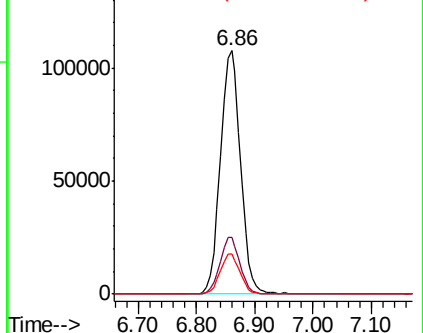
88 16.5 0.0 33.2

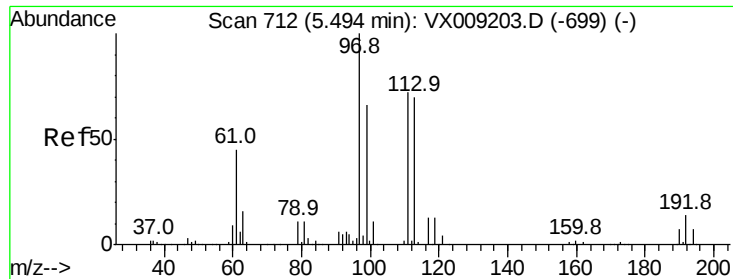


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 51.465 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

Instrument :

MSVOA_X

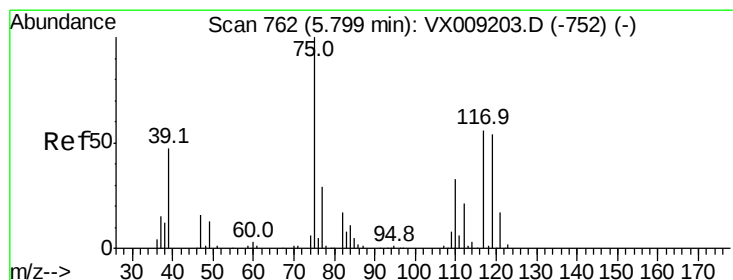
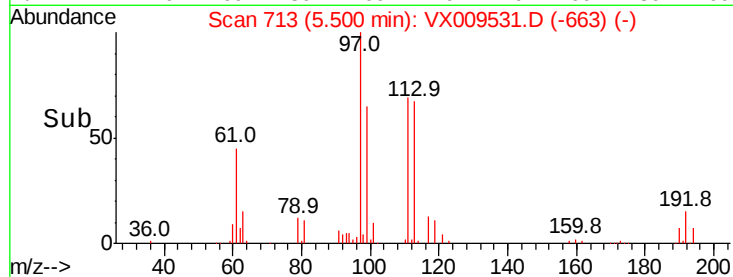
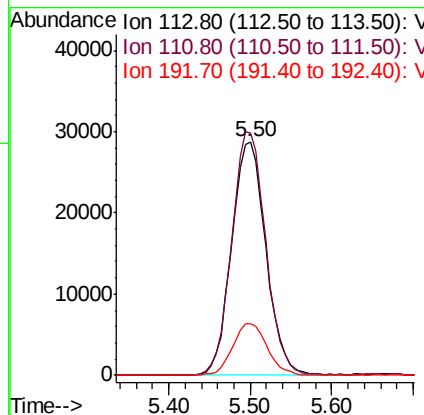
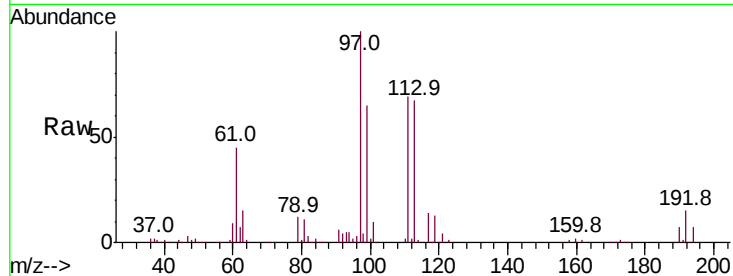
ClientSampleId :

VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
113	100	83491		
111	103.4	82.8	124.2	
192	22.5	17.0	25.6	

Manual Integrations
APPROVED

MMDadoda
5/13/2019 4:27:33 PM



#36

1,1-Dichloropropene

Concen: 52.879 ug/l

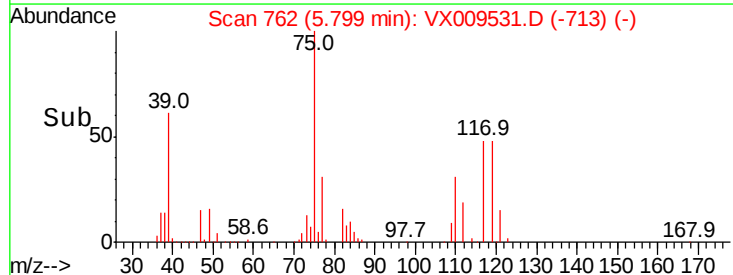
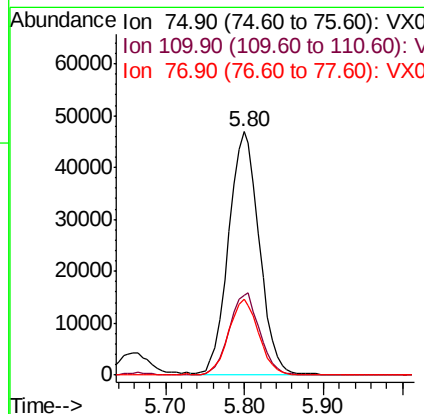
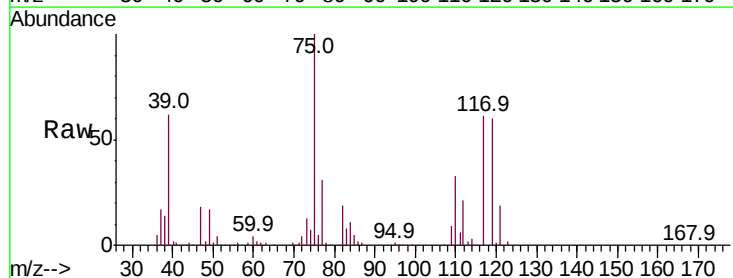
RT: 5.80 min Scan# 762

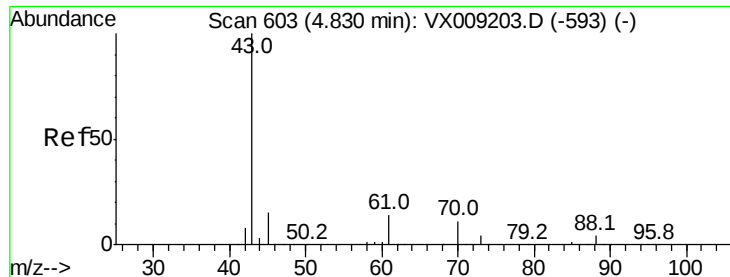
Delta R.T. -0.00 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	126815		
110	33.6	16.9	50.6	
77	30.5	24.8	37.2	





#37

Ethyl Acetate

Concen: 54.310 ug/l

RT: 4.84 min Scan# 604

Delta R.T. 0.01 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

Instrument :

MSVOA_X

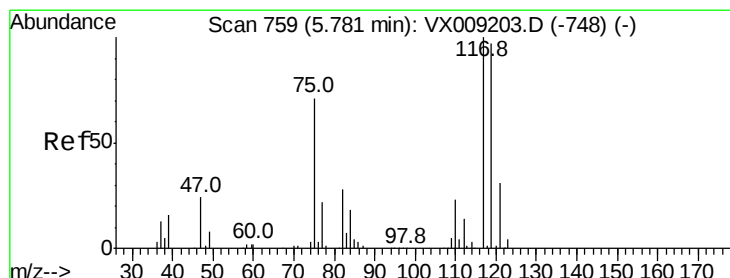
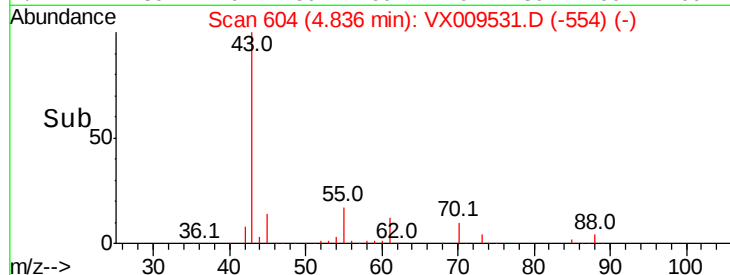
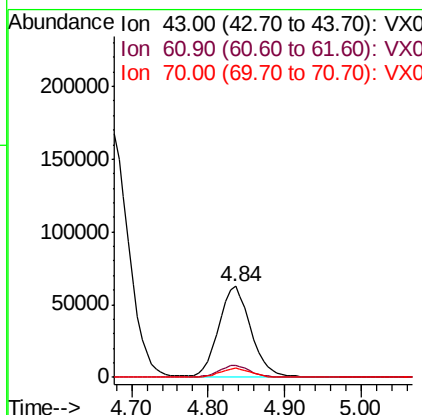
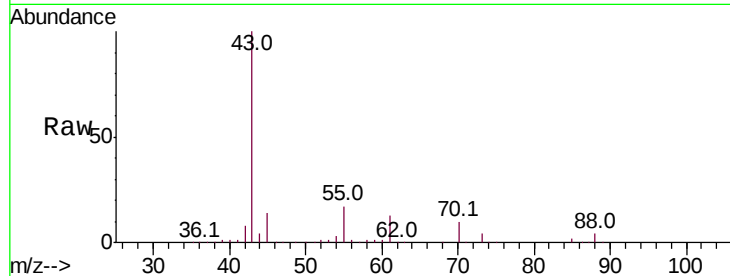
ClientSampleId :

VSTDCCC050EC

Tot Ion:	43	Resp:	181472
Ion	Ratio	Lower	Upper
43	100		
61	13.3	10.5	15.7
70	9.6	7.9	11.9

Manual Integrations
APPROVED

MMDadoda
5/13/2019 4:27:33 PM



#38

Carbon Tetrachloride

Concen: 53.120 ug/l

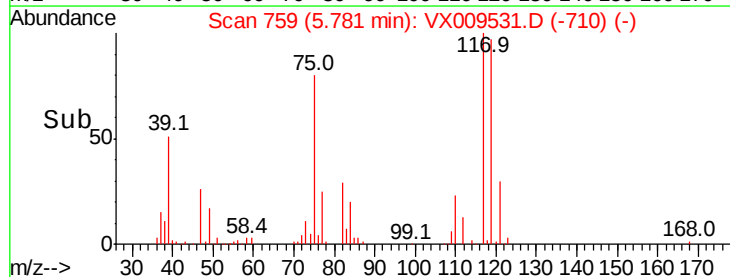
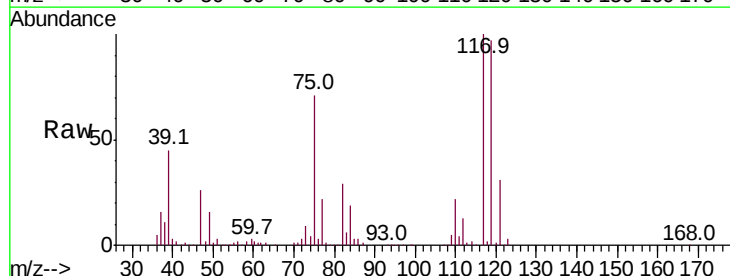
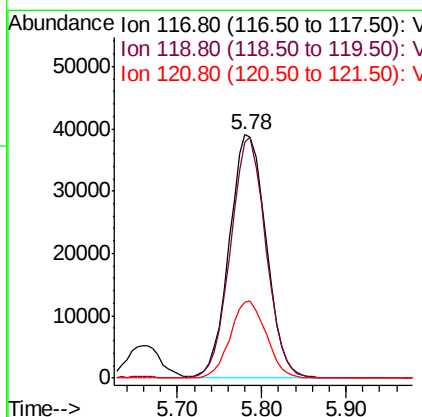
RT: 5.78 min Scan# 759

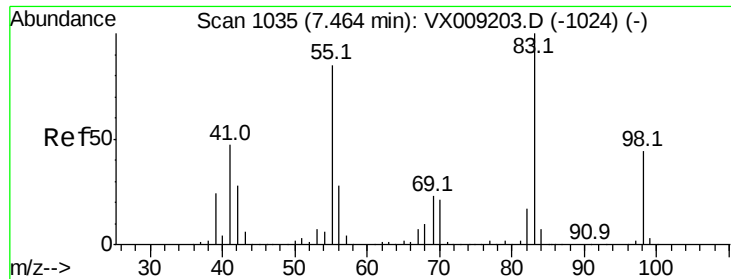
Delta R.T. -0.00 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

Tgt Ion:	117	Resp:	115745
Ion	Ratio	Lower	Upper
117	100		
119	96.7	77.5	116.3
121	31.0	24.7	37.1





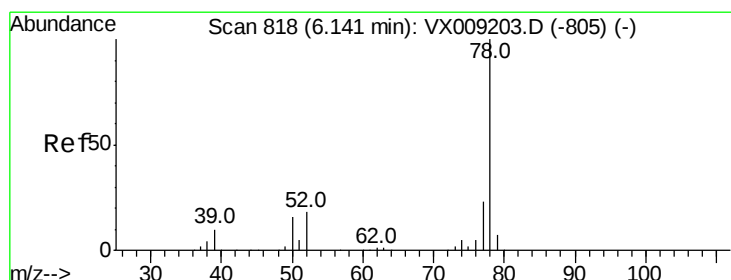
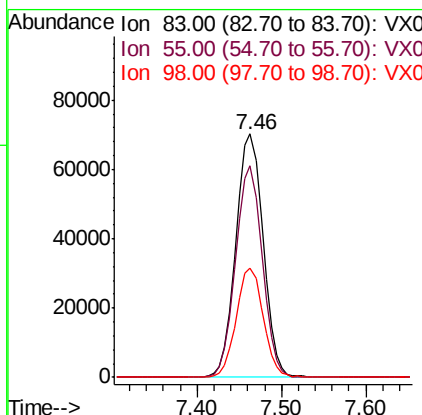
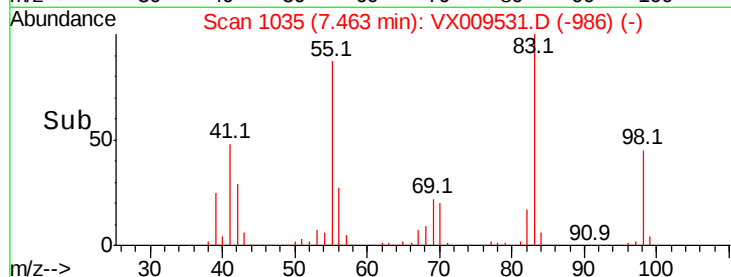
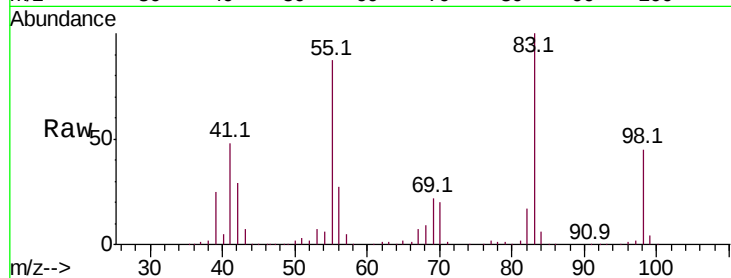
#39
Methvlcvclohexane
Concen: 52.164 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. -0.00 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
83	100		
55	86.7	67.7	101.5
98	45.0	35.5	53.3

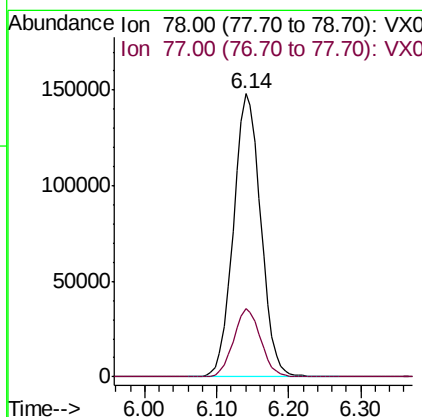
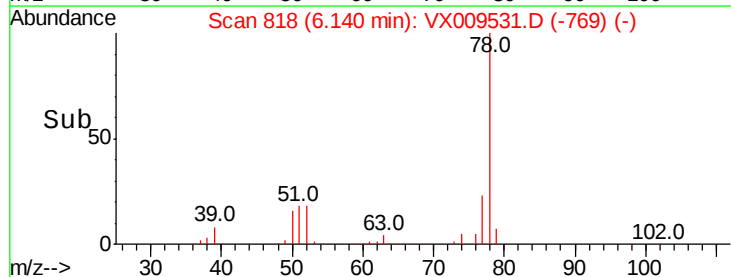
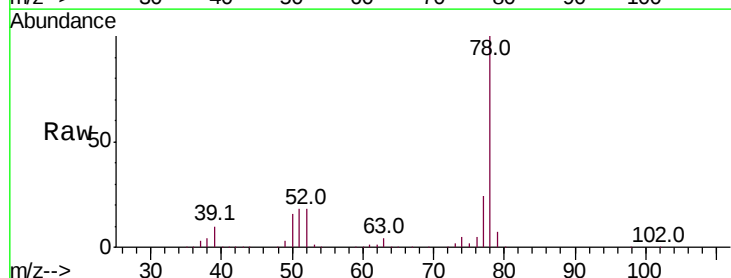
Manual Integrations
APPROVED

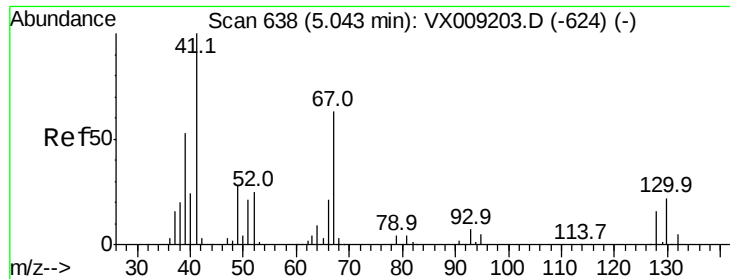
MMDadoda
5/13/2019 4:27:33 PM



#40
Benzene
Concen: 52.477 ug/l
RT: 6.14 min Scan# 818
Delta R.T. -0.00 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.8	28.2





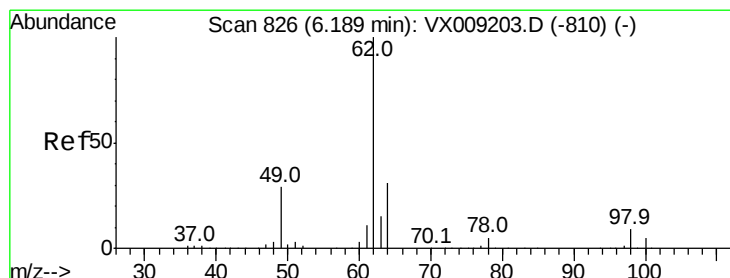
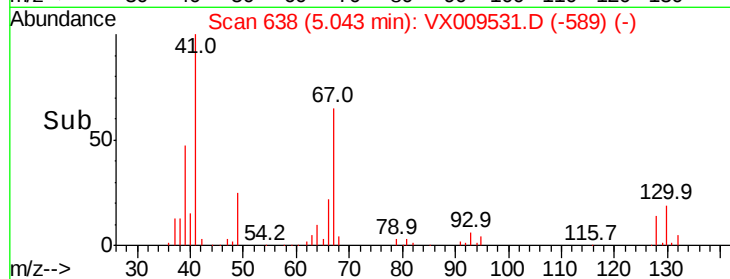
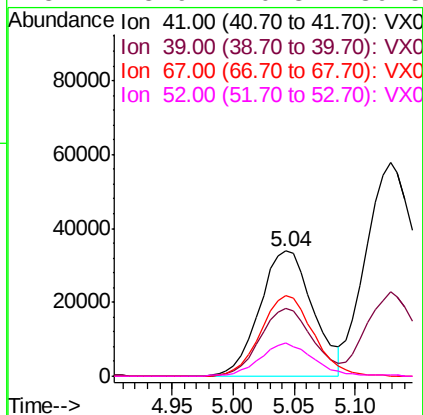
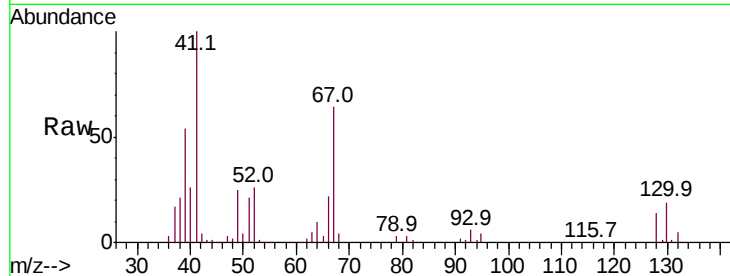
#41
Methacrylonitrile
Concen: 51.607 ug/l
RT: 5.04 min Scan# 638
Delta R.T. -0.00 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	53.0	42.0	63.0	
67	63.8	49.8	74.8	
52	25.9	20.3	30.5	

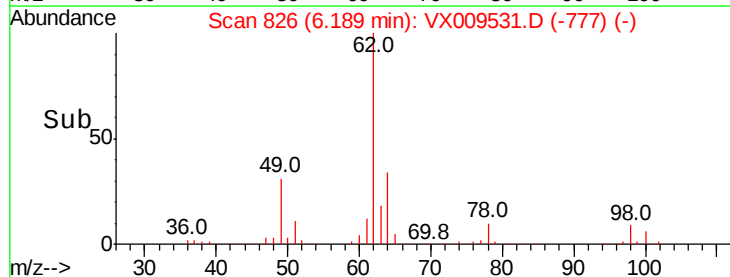
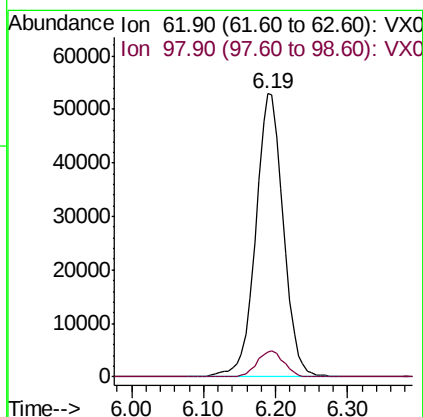
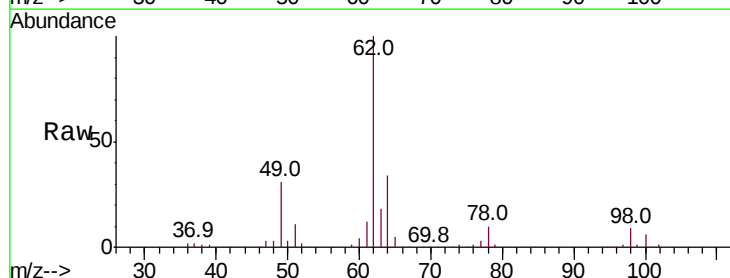
Manual Integrations
APPROVED

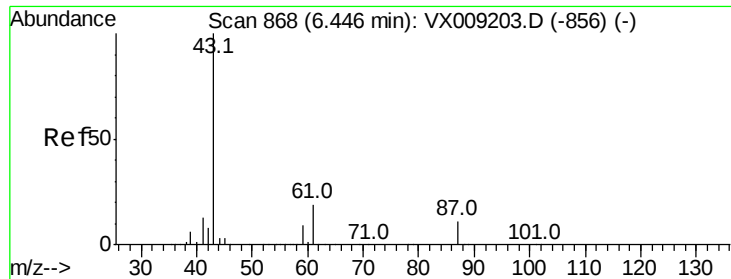
MMDadoda
5/13/2019 4:27:33 PM



#42
1,2-Dichloroethane
Concen: 52.990 ug/l
RT: 6.19 min Scan# 826
Delta R.T. -0.00 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.0	0.0	18.2	





#43

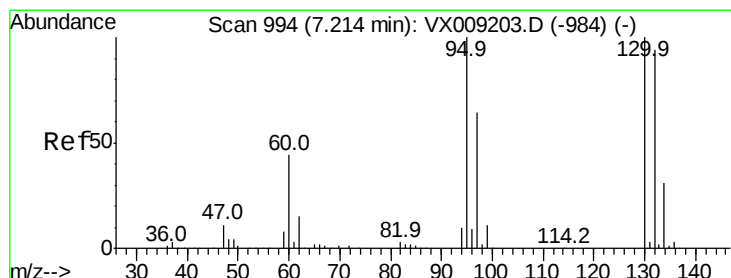
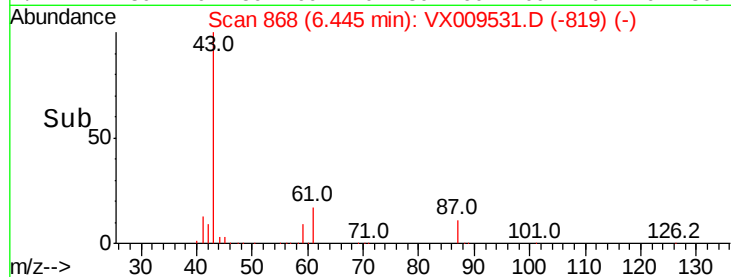
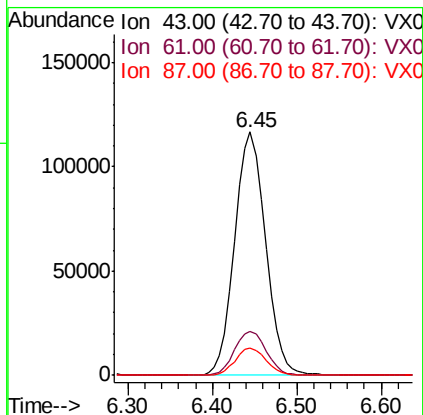
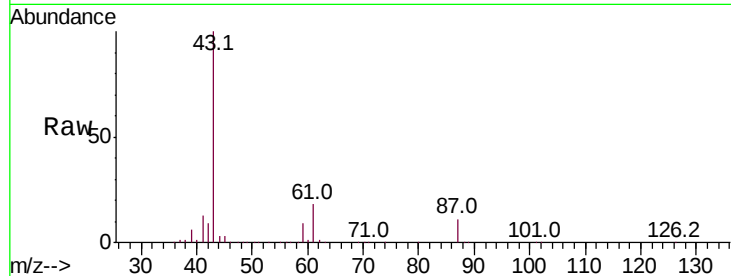
Isopropyl Acetate
 Concen: 54.007 ug/l
 RT: 6.45 min Scan# 868
 Delta R.T. -0.00 min
 Lab File: VX009531.D
 Acq: 11 May 2019 17:50

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	18.6	15.1	22.7
87	11.2	9.0	13.6

Manual Integrations
 APPROVED

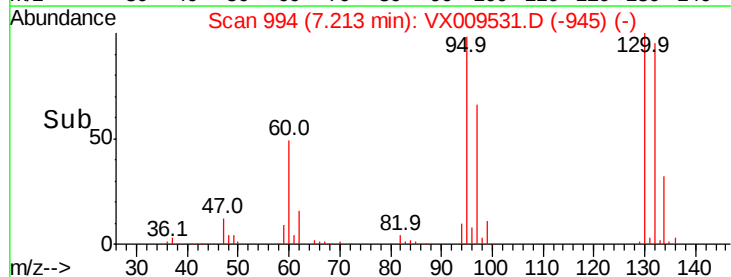
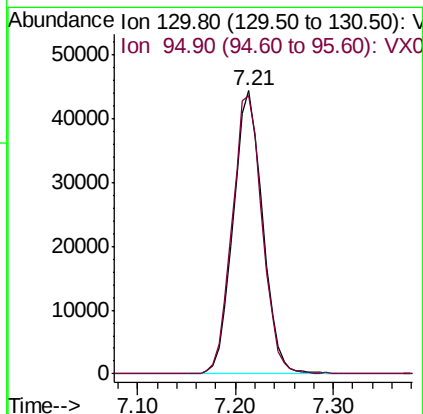
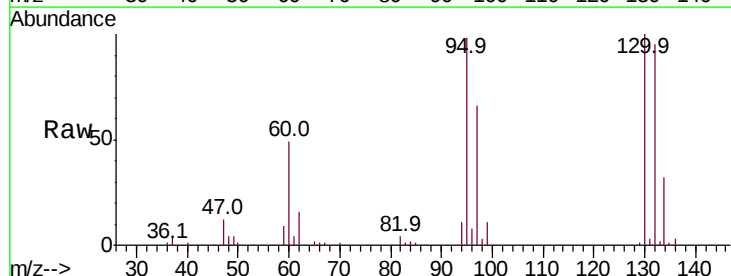
MMDadoda
 5/13/2019 4:27:33 PM

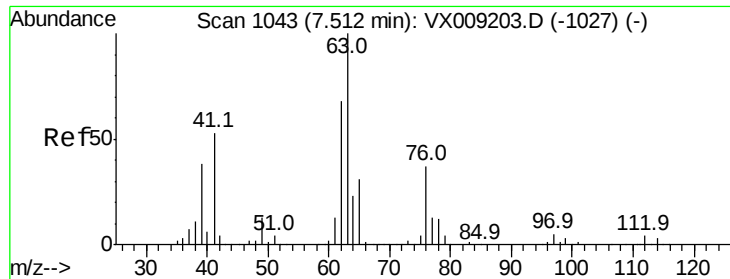


#44

Trichloroethene
 Concen: 51.655 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. -0.00 min
 Lab File: VX009531.D
 Acq: 11 May 2019 17:50

Tgt Ion	Ratio	Lower	Upper
130	100		
95	98.3	0.0	199.2





#45

1,2-Dichloropropane

Concen: 52.235 ug/l

RT: 7.51 min Scan# 1043

Delta R.T. -0.00 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion: 63 Resp: 109779

Ion Ratio Lower Upper

63 100

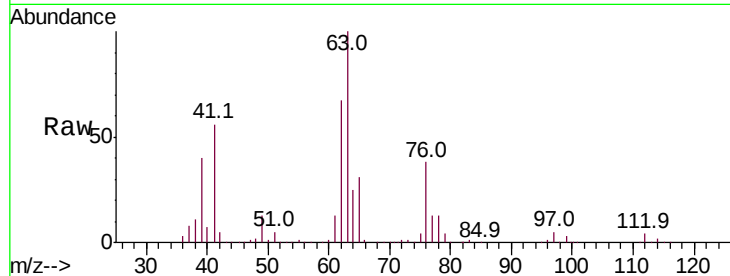
65 30.9 25.0 37.6

Manual Integrations

APPROVED

MMDadoda

5/13/2019 4:27:33 PM



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 64.90 (64.60 to 65.60): VX0

60000

50000

40000

30000

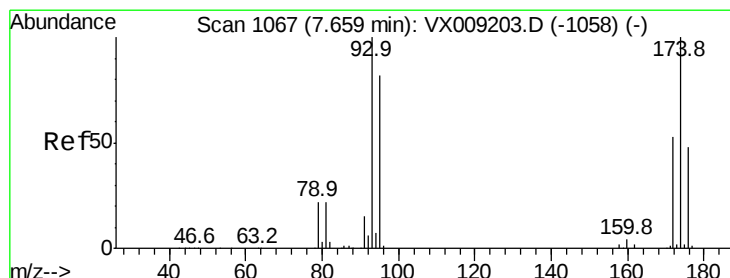
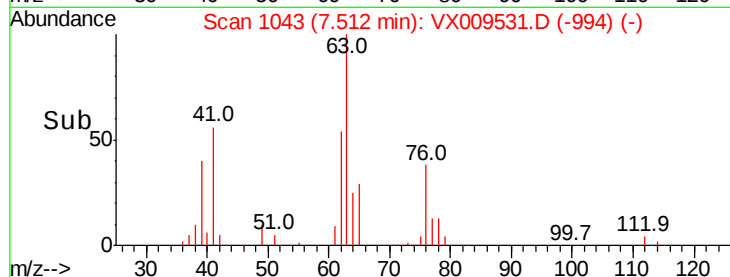
20000

10000

0

7.40 7.50 7.60

Time-->



#46

Dibromomethane

Concen: 52.398 ug/l

RT: 7.66 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

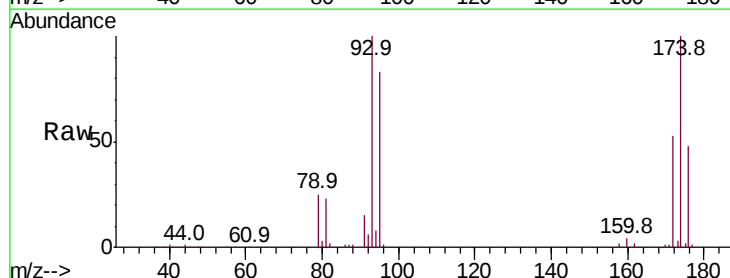
Tgt Ion: 93 Resp: 63948

Ion Ratio Lower Upper

93 100

95 82.9 66.5 99.7

174 104.4 82.1 123.1



Abundance Ion 92.80 (92.50 to 93.50): VX0

Ion 94.80 (94.50 to 95.50): VX0

Ion 173.70 (173.40 to 174.40): V

40000

30000

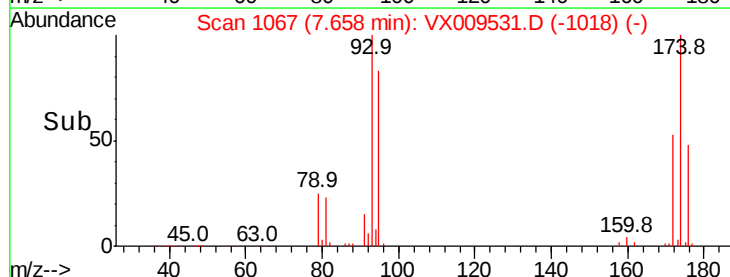
20000

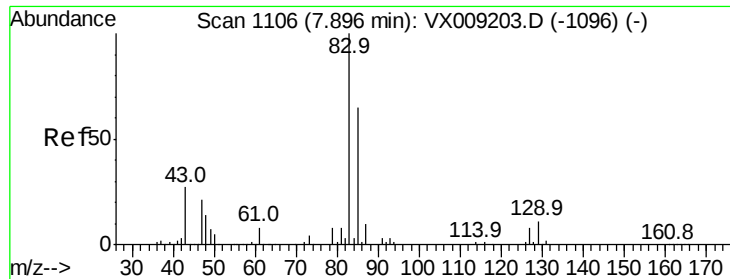
10000

0

7.60 7.70 7.80

Time-->





#47

Bromodichloromethane

Concen: 53.204 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

Instrument :

MSVOA_X

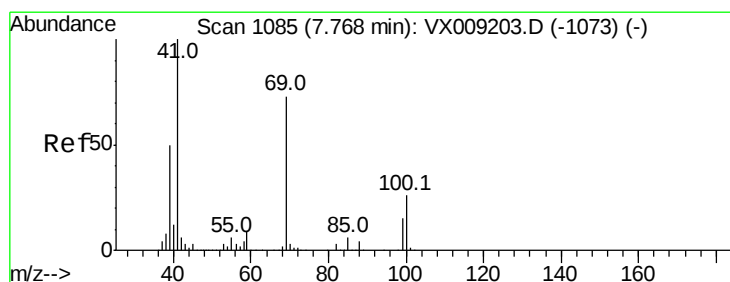
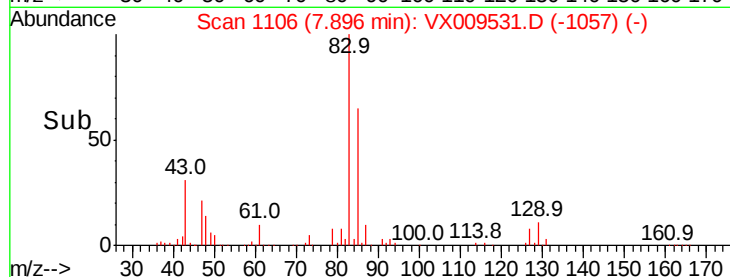
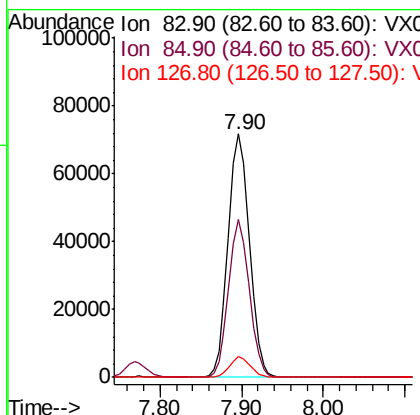
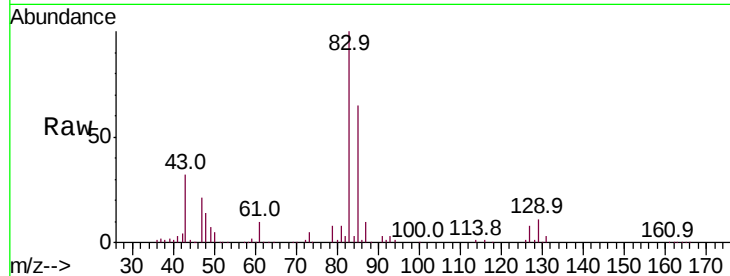
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	129521
Ion Ratio	Lower	Upper	
83	100		
85	64.6	52.4	78.6
127	8.4	6.6	10.0

Manual Integrations
APPROVED

MMDadoda
5/13/2019 4:27:33 PM



#48

Methyl methacrylate

Concen: 54.647 ug/l

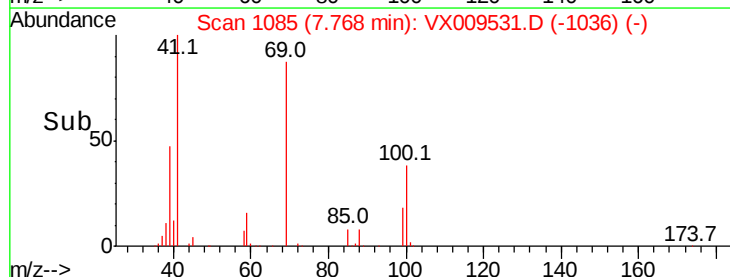
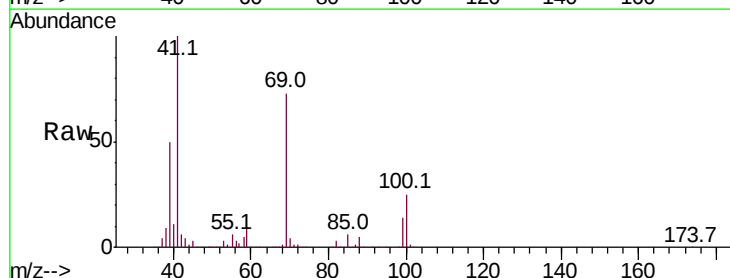
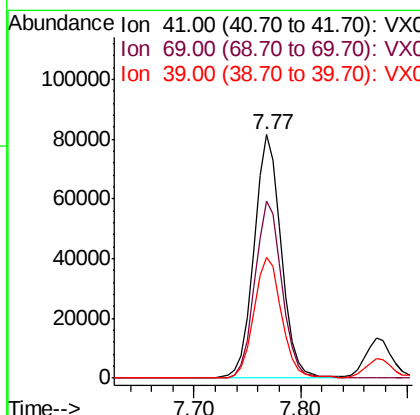
RT: 7.77 min Scan# 1085

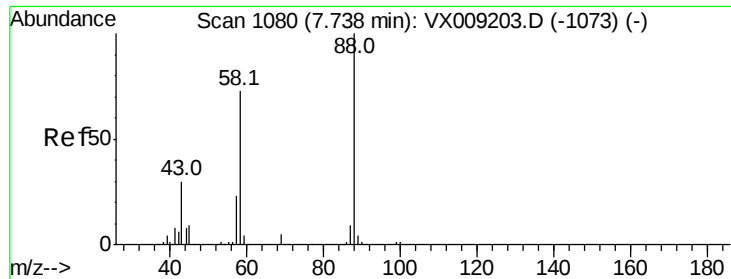
Delta R.T. -0.00 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

Tgt Ion:	41	Resp:	144905
Ion Ratio	Lower	Upper	
41	100		
69	73.1	59.1	88.7
39	50.7	40.4	60.6





#49

1,4-Dioxane

Concen: 1094.808 ug/l

RT: 7.74 min Scan# 1080

Delta R.T. -0.00 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

Instrument :

MSVOA_X

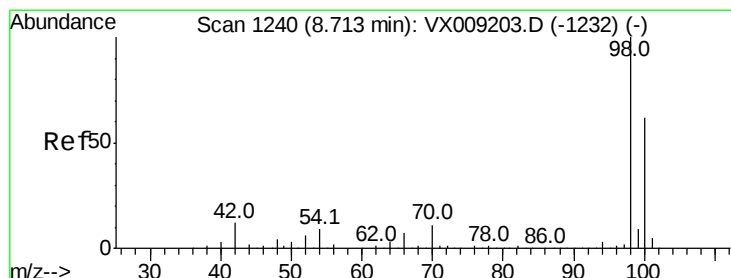
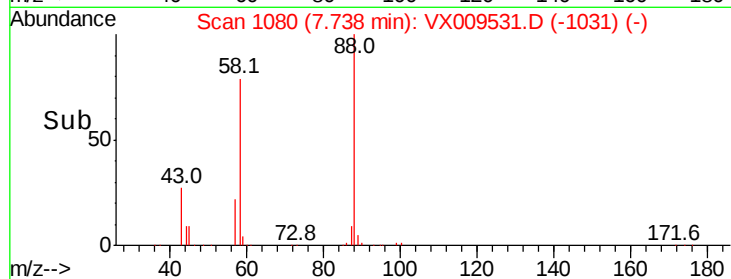
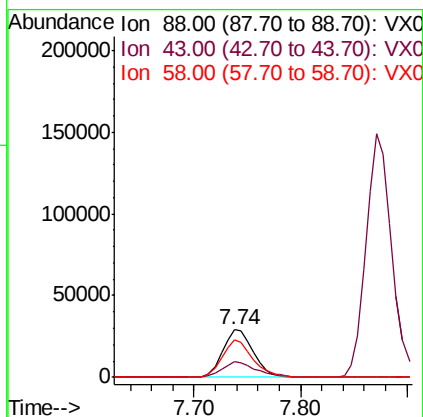
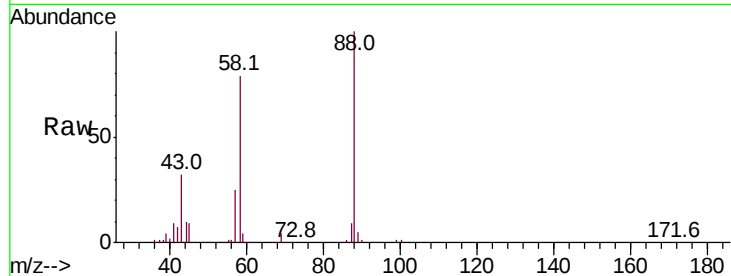
ClientSampleId :

VSTDCCC050EC

Tot Ion:	88	Resp:	58874
Ion	Ratio	Lower	Upper
88	100		
43	35.3	28.6	42.8
58	78.5	61.7	92.5

Manual Integrations
APPROVED

MMDadoda
5/13/2019 4:27:33 PM



#50

Toluene-d8

Concen: 51.057 ug/l

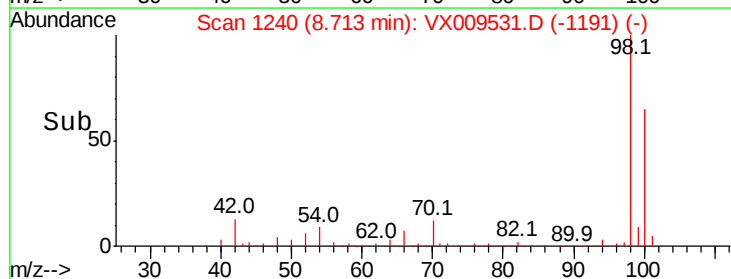
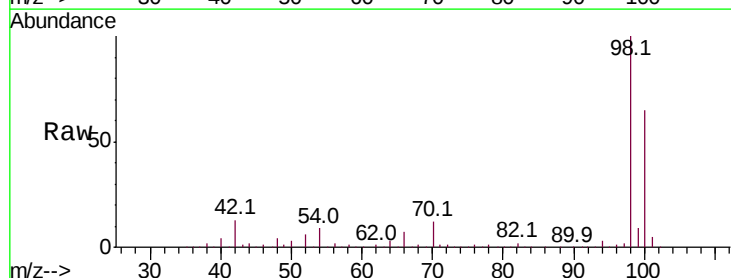
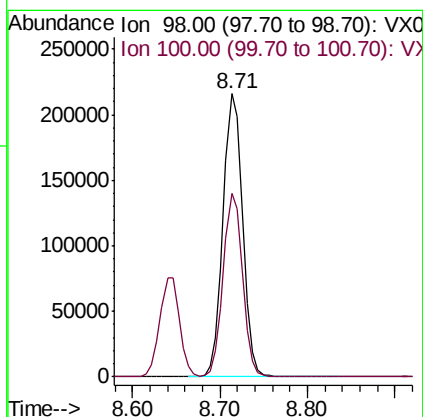
RT: 8.71 min Scan# 1240

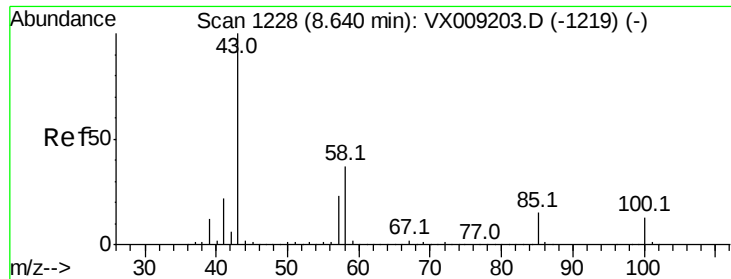
Delta R.T. -0.00 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

Tgt Ion:	98	Resp:	334400
Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.2	76.8





#51

4-Methyl-2-Pentanone

Concen: 275.301 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. -0.00 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 961755

Ion Ratio Lower Upper

43 100

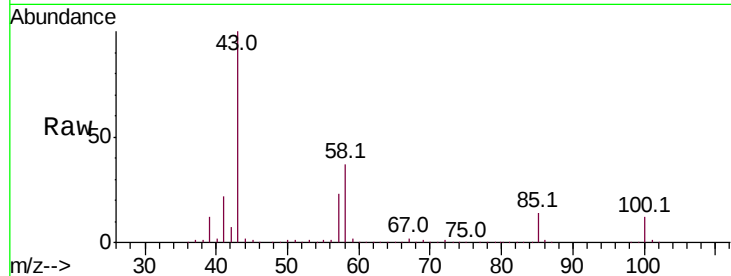
58 36.7 29.5 44.3

Manual Integrations

APPROVED

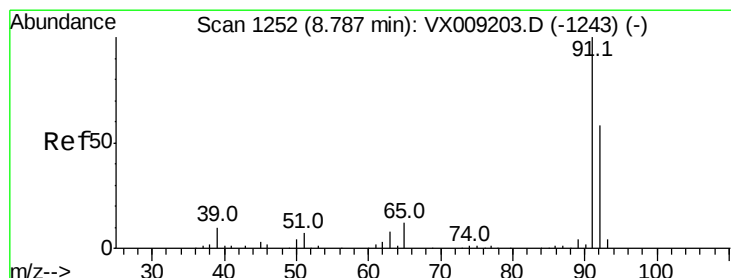
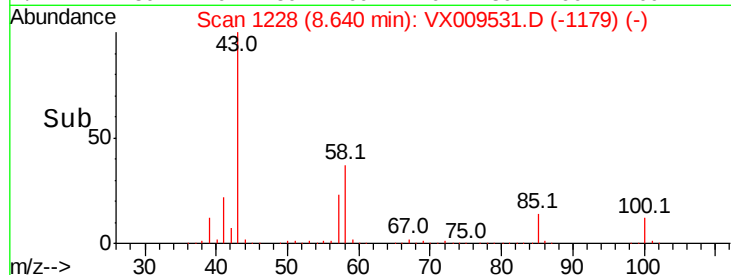
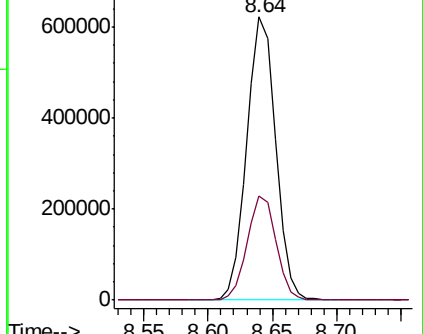
MMDadoda

5/13/2019 4:27:33 PM



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#52

Toluene

Concen: 52.962 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX009531.D

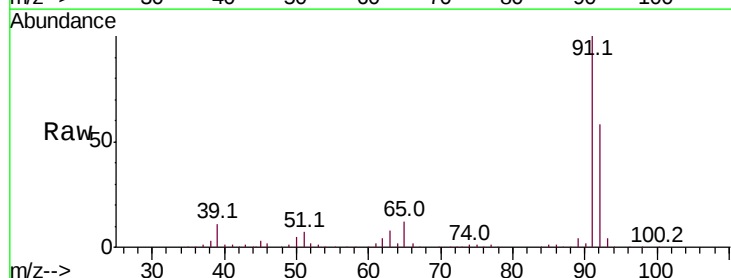
Acq: 11 May 2019 17:50

Tgt Ion: 92 Resp: 238947

Ion Ratio Lower Upper

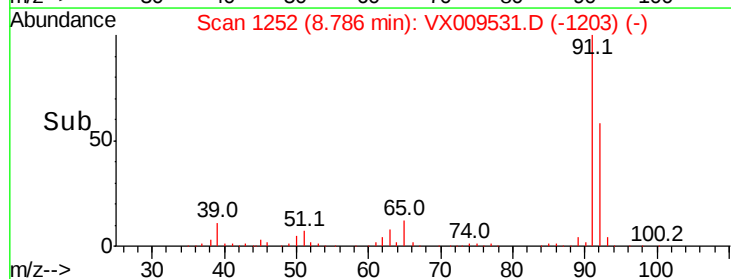
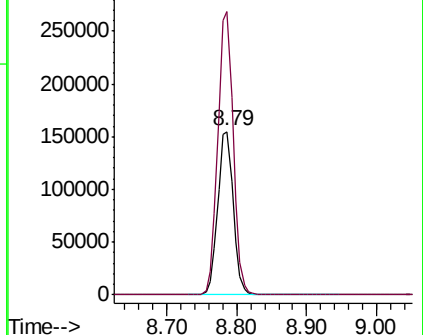
92 100

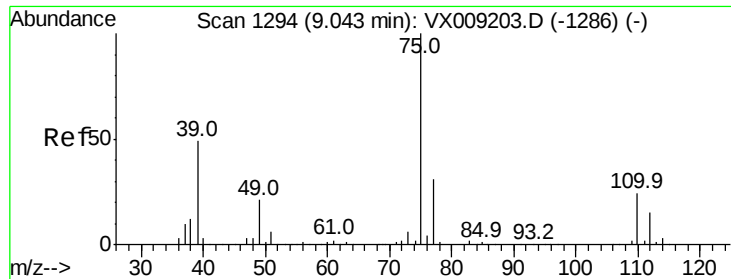
91 173.3 138.8 208.2



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0





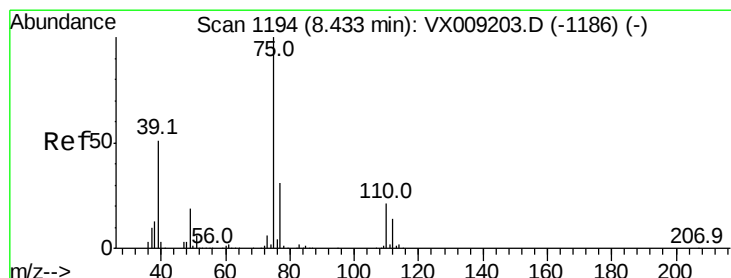
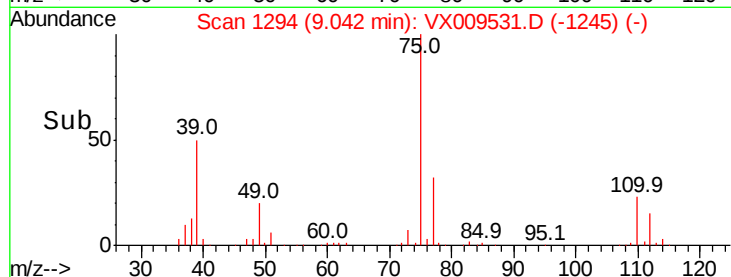
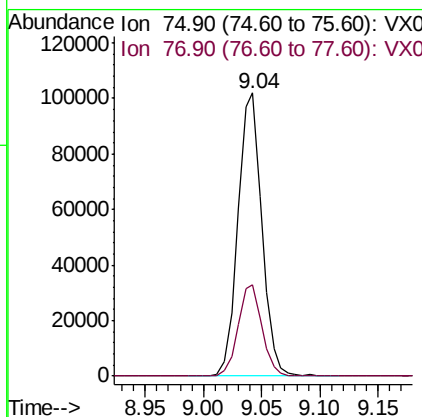
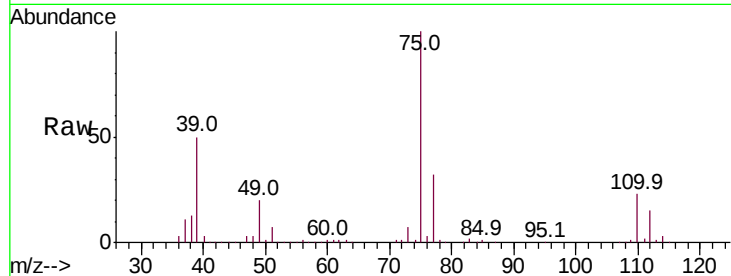
#53
t-1,3-Dichloropropene
Concen: 53.067 ug/l
RT: 9.04 min Scan# 1294
Delta R.T. -0.00 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tot Ion: 75 Resp: 145854
Ion Ratio Lower Upper
75 100
77 32.3 25.0 37.6

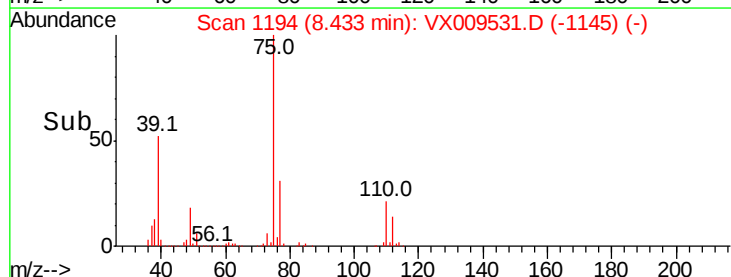
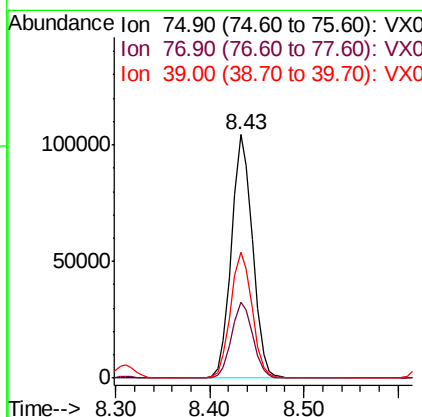
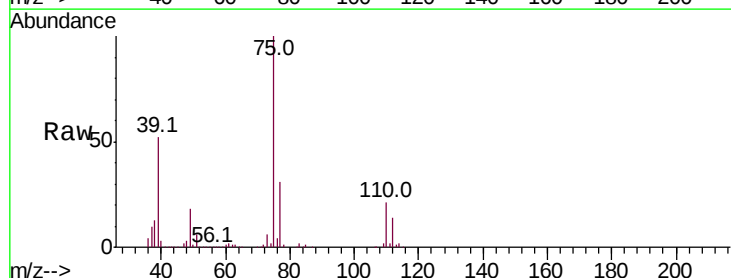
Manual Integrations
APPROVED

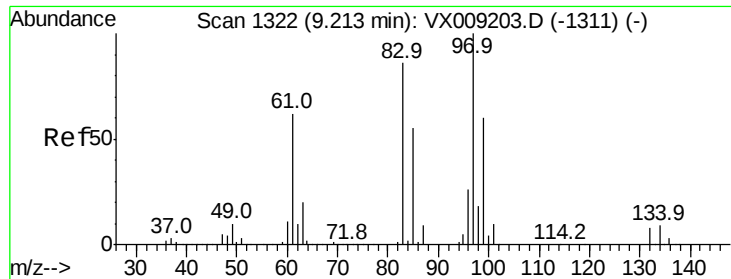
MMDadoda
5/13/2019 4:27:33 PM



#54
cis-1,3-Dichloropropene
Concen: 53.525 ug/l
RT: 8.43 min Scan# 1194
Delta R.T. -0.00 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Tgt Ion: 75 Resp: 162834
Ion Ratio Lower Upper
75 100
77 31.0 24.6 36.8
39 51.8 40.6 60.8





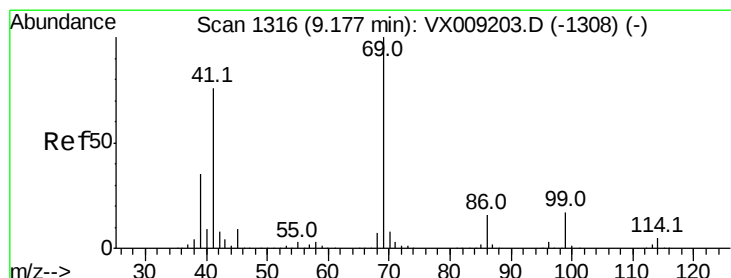
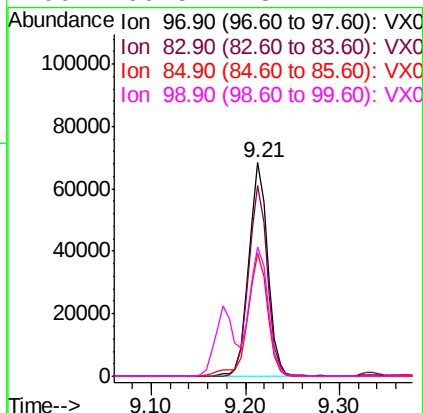
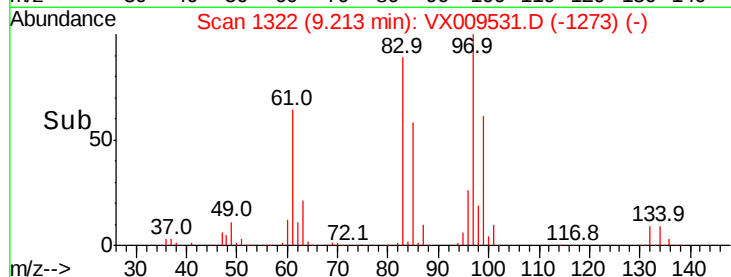
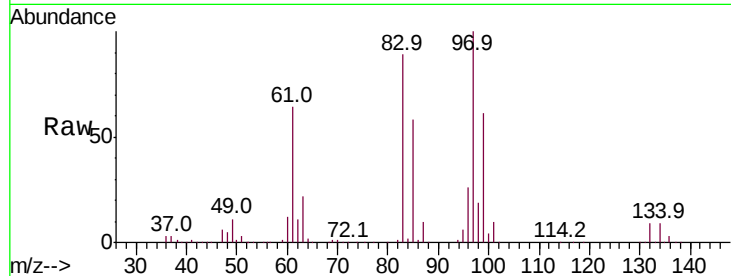
#55
 1,1,2-Trichloroethane
 Concen: 52.438 ug/l
 RT: 9.21 min Scan# 1322
 Delta R.T. -0.00 min
 Lab File: VX009531.D
 Acq: 11 May 2019 17:50

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		96519		
83	89.2	68.9	103.3		
85	57.7	43.8	65.6		
99	60.5	48.2	72.2		

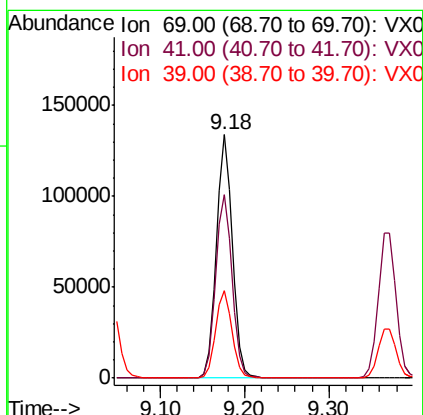
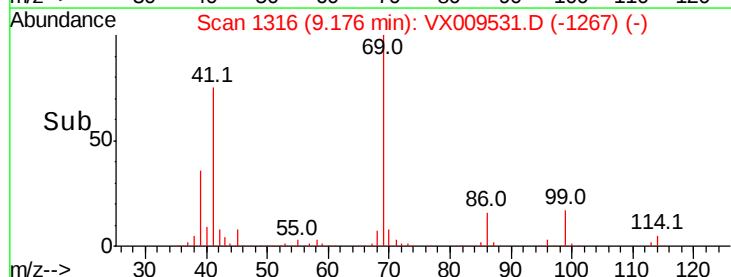
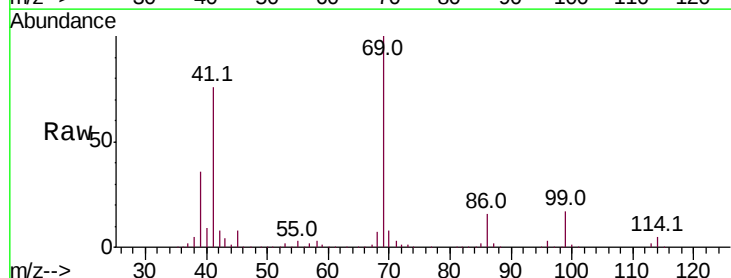
Manual Integrations
 APPROVED

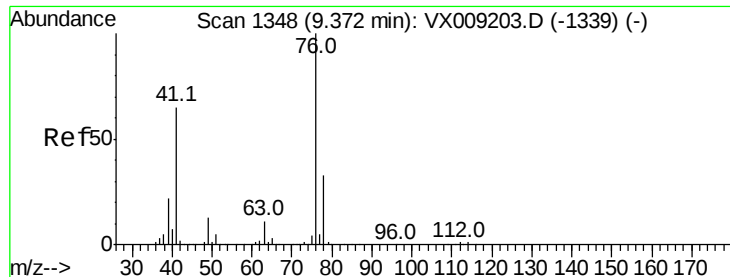
MMDadoda
 5/13/2019 4:27:33 PM



#56
 Ethyl methacrylate
 Concen: 54.001 ug/l
 RT: 9.18 min Scan# 1316
 Delta R.T. -0.00 min
 Lab File: VX009531.D
 Acq: 11 May 2019 17:50

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		177426		
41	77.1	60.6	90.8		
39	36.8	28.2	42.4		





#57

1,3-Dichloropropane

Concen: 52.205 ug/l

RT: 9.37 min Scan# 1348

Delta R.T. -0.00 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion: 76 Resp: 169094

Ion Ratio Lower Upper

76 100

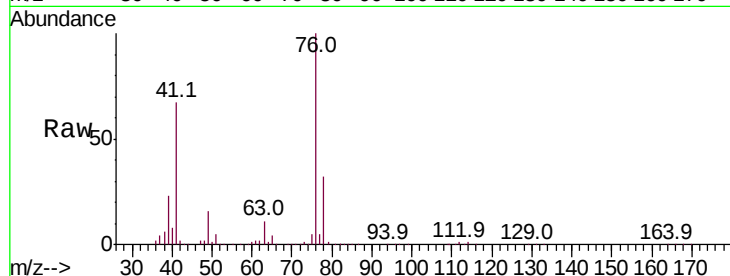
78 32.2 25.5 38.3

Manual Integrations

APPROVED

MMDadoda

5/13/2019 4:27:33 PM



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

9.37

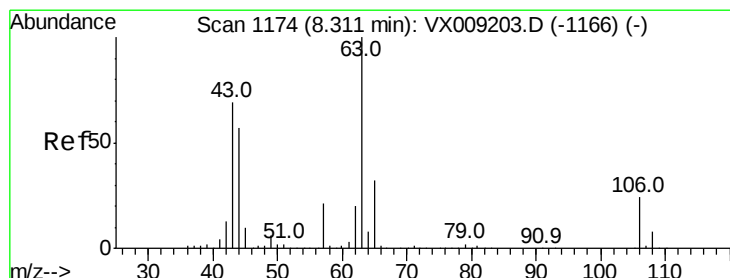
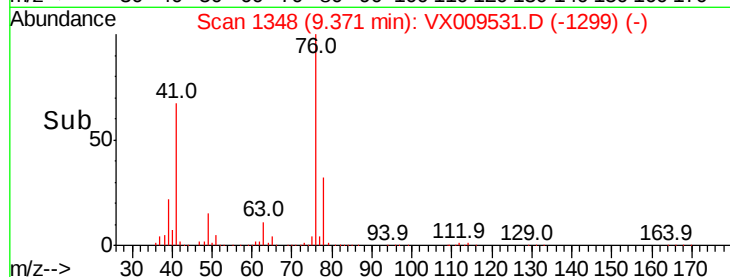
100000

50000

0

Time-->

9.30 9.40 9.50



#58

2-Chloroethyl Vinyl ether

Concen: 241.729 ug/l

RT: 8.31 min Scan# 1174

Delta R.T. -0.00 min

Lab File: VX009531.D

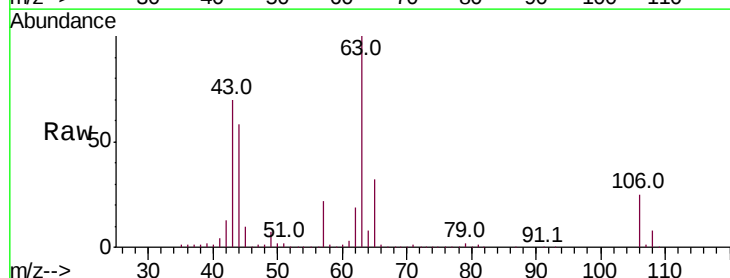
Acq: 11 May 2019 17:50

Tgt Ion: 63 Resp: 421339

Ion Ratio Lower Upper

63 100

106 25.0 19.7 29.5



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V

8.31

300000

250000

200000

150000

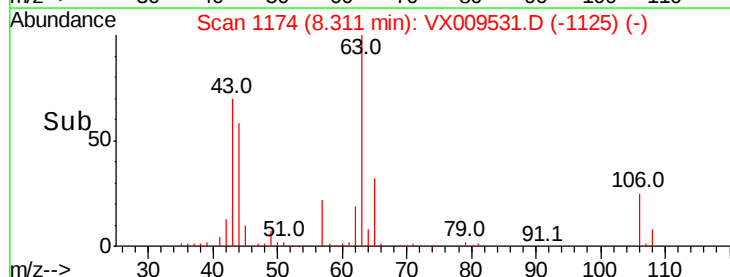
100000

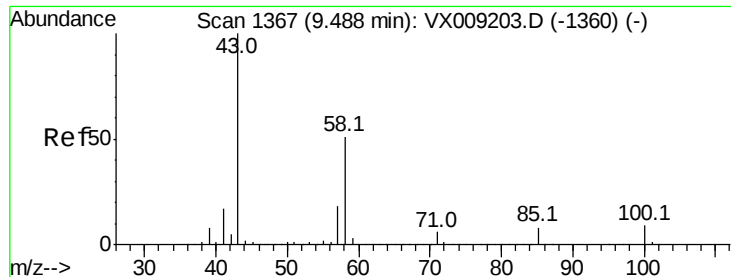
50000

0

Time-->

8.20 8.30 8.40





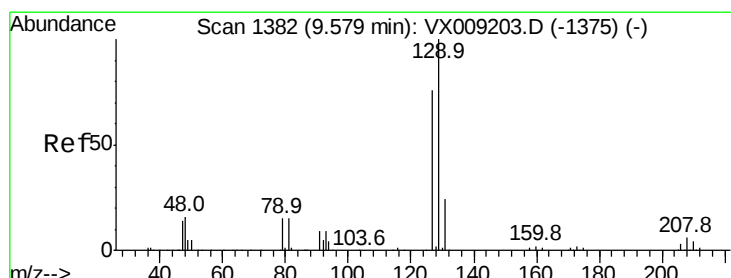
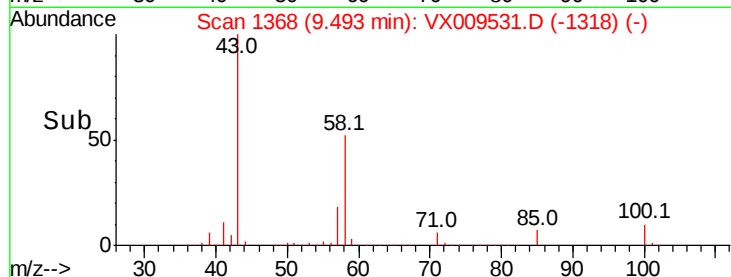
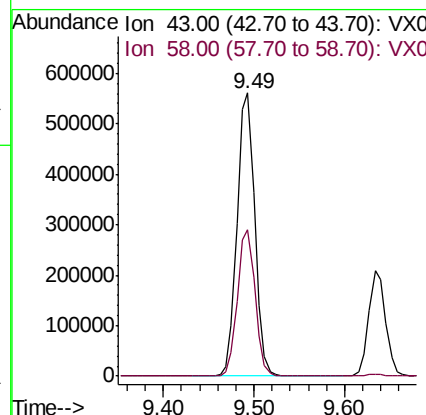
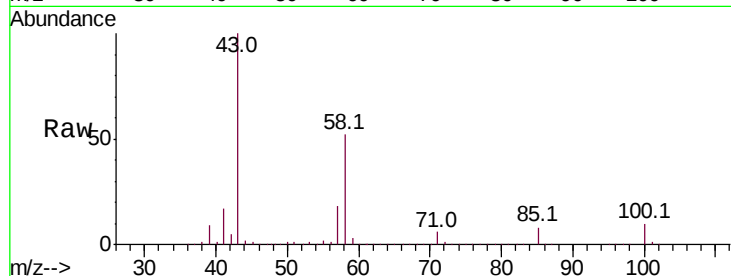
#59
2-Hexanone
Concen: 276.808 ug/l
RT: 9.49 min Scan# 1368
Delta R.T. 0.01 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 759485
Ion Ratio Lower Upper
43 100
58 51.6 25.9 77.7

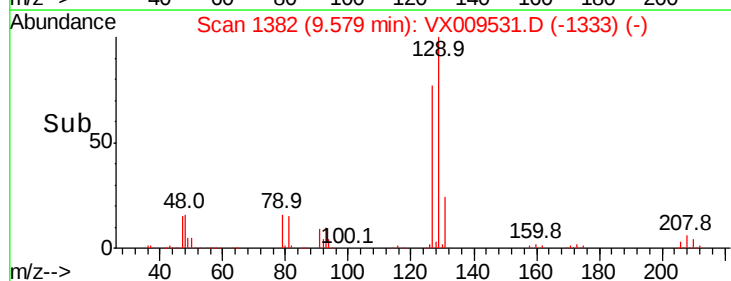
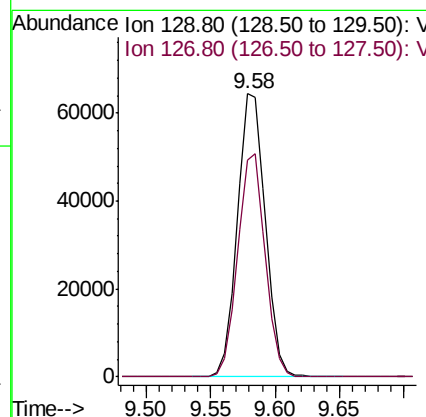
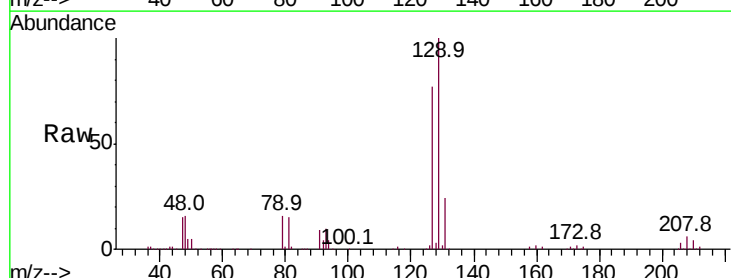
Manual Integrations
APPROVED

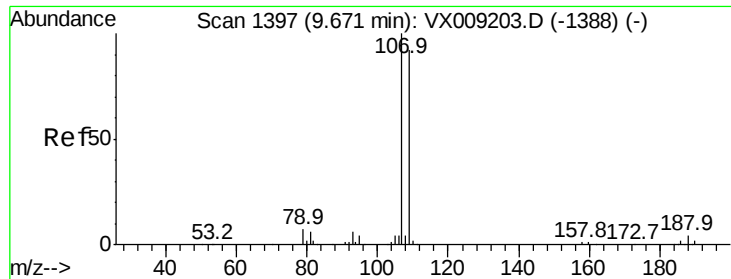
MMDadoda
5/13/2019 4:27:33 PM



#60
Dibromochloromethane
Concen: 54.188 ug/l
RT: 9.58 min Scan# 1382
Delta R.T. -0.00 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Tgt Ion: 129 Resp: 97414
Ion Ratio Lower Upper
129 100
127 77.4 38.4 115.1





#61

1,2-Dibromoethane

Concen: 53.113 ug/l

RT: 9.67 min Scan# 1397

Delta R.T. -0.00 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion:107 Resp: 98684

Ion Ratio Lower Upper

107 100

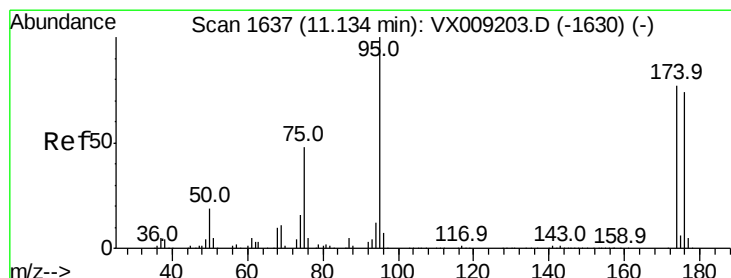
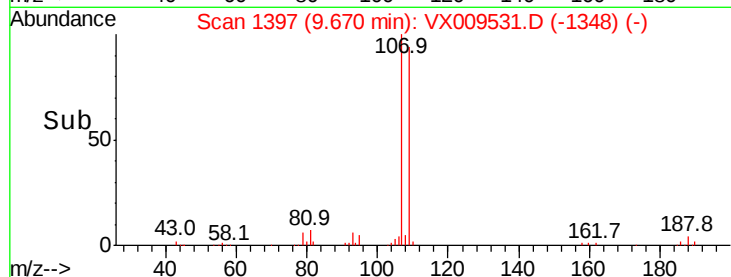
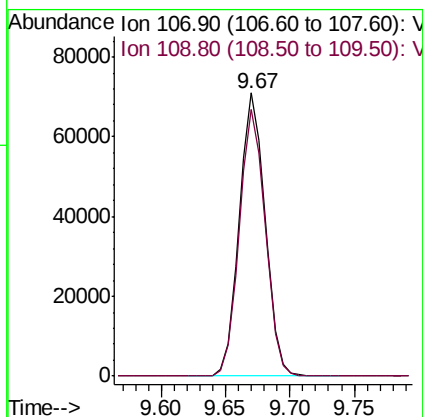
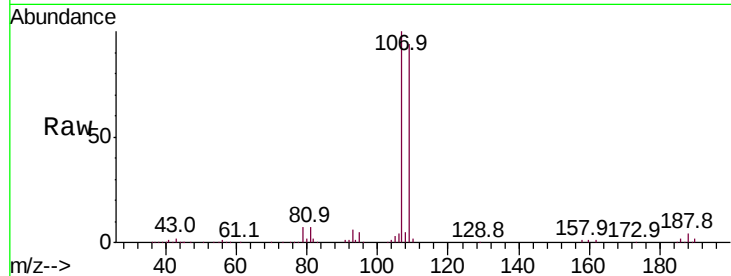
109 94.5 75.2 112.8

Manual Integrations

APPROVED

MMDadoda

5/13/2019 4:27:33 PM



#62

4-Bromofluorobenzene

Concen: 52.627 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

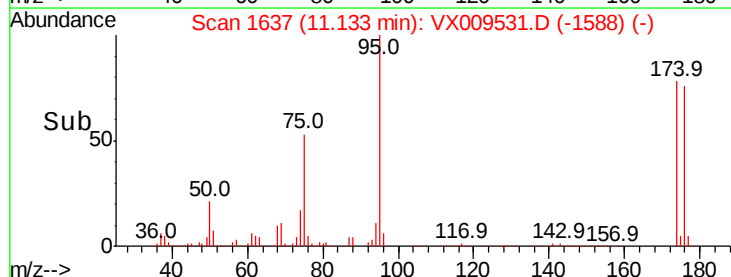
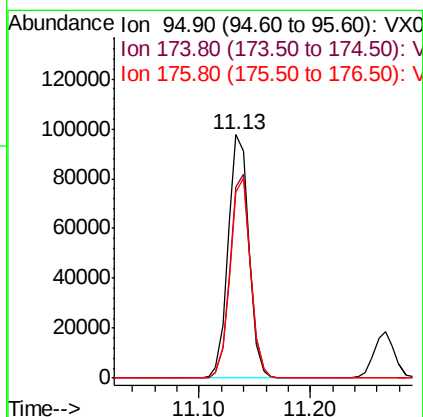
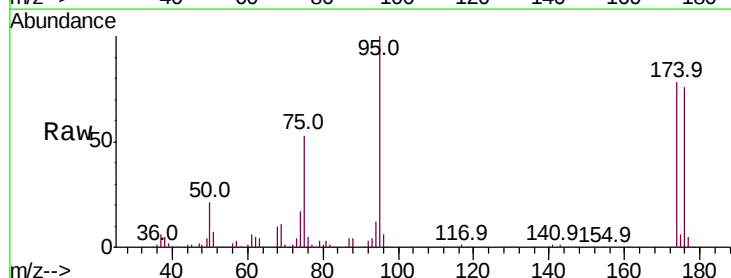
Tgt Ion: 95 Resp: 125245

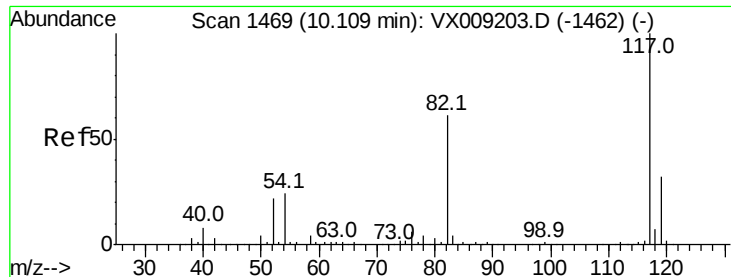
Ion Ratio Lower Upper

95 100

174 82.4 0.0 161.6

176 80.9 0.0 159.2





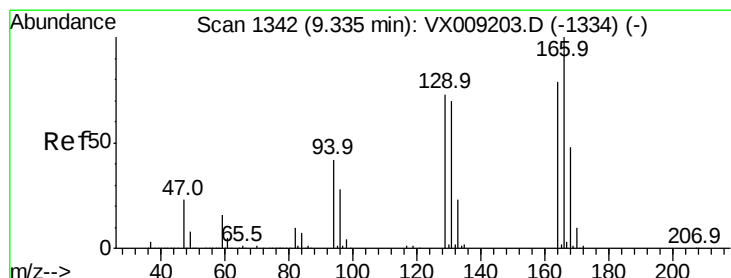
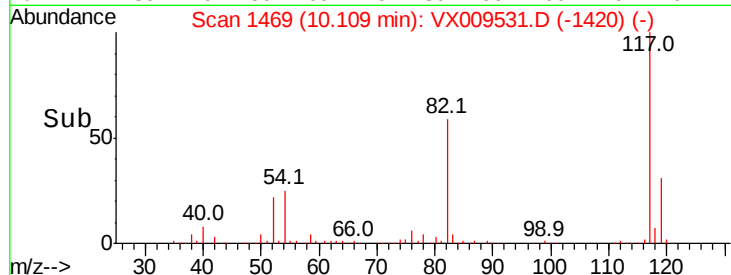
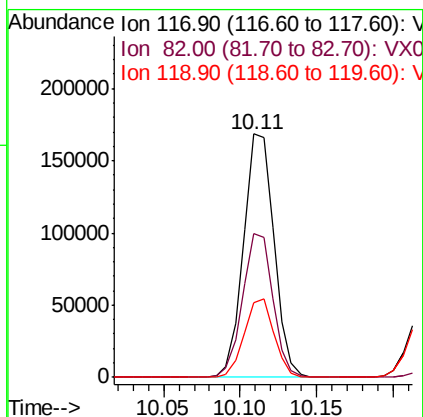
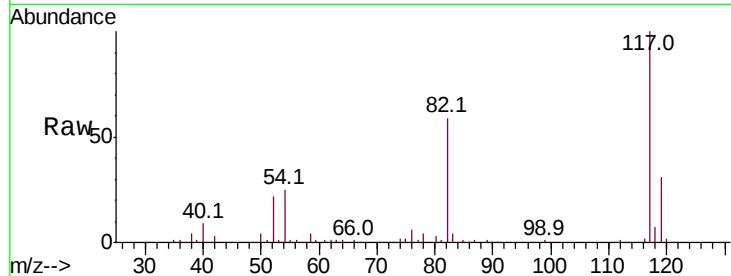
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.9	48.8	73.2
119	30.9	25.8	38.6

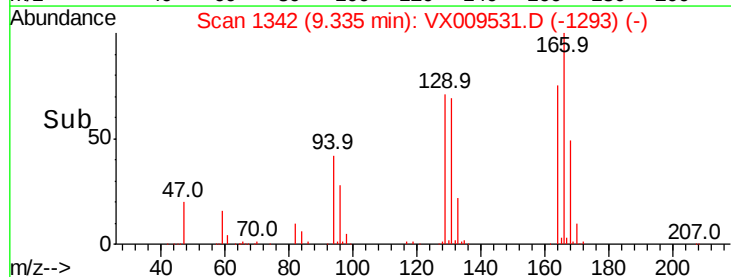
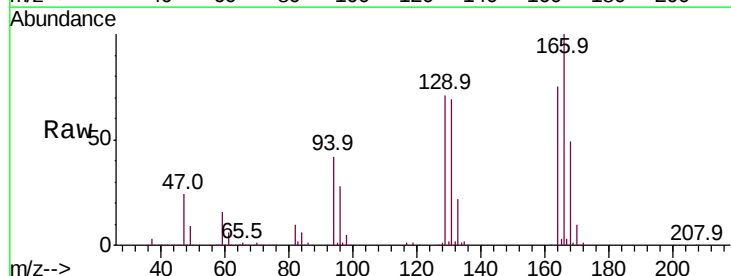
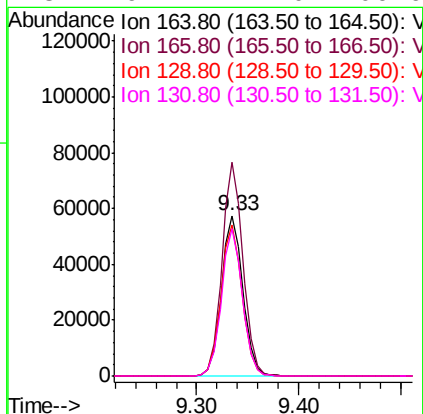
Manual Integrations
APPROVED

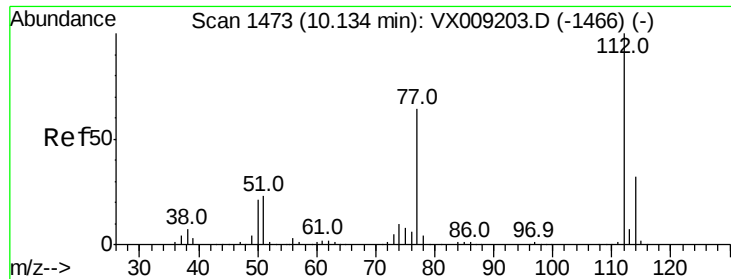
MMDadoda
5/13/2019 4:27:33 PM



#64
Tetrachloroethene
Concen: 52.113 ug/l
RT: 9.33 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Tgt Ion	Ratio	Lower	Upper
164	100		
166	133.0	101.2	151.8
129	94.0	74.3	111.5
131	91.4	71.0	106.6





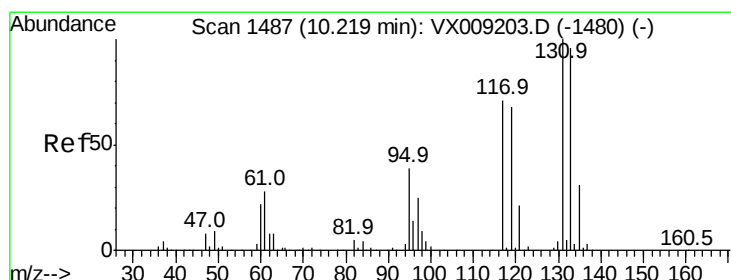
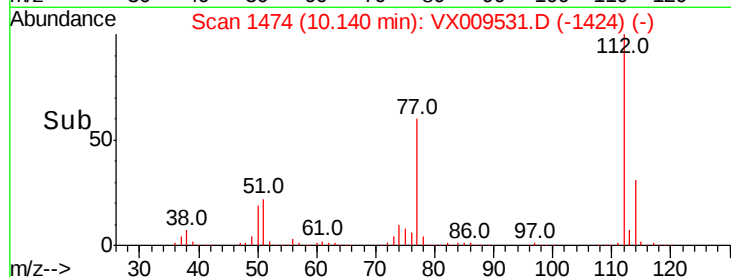
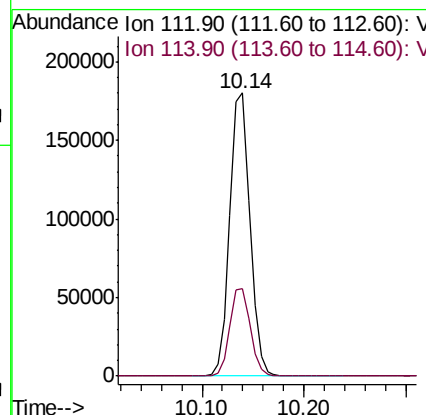
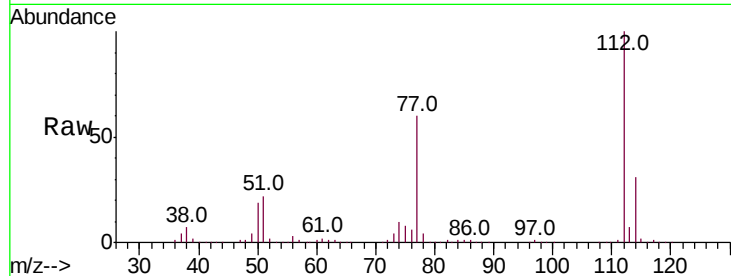
#65
Chlorobenzene
Concen: 52.967 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.01 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tot Ion:112 Resp: 247582
Ion Ratio Lower Upper
112 100
114 30.9 25.5 38.3

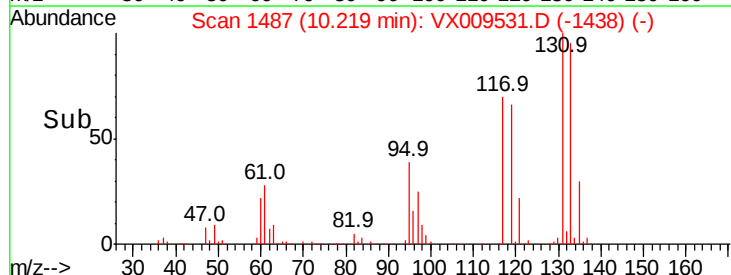
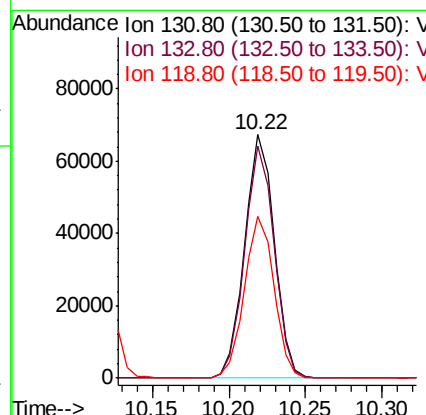
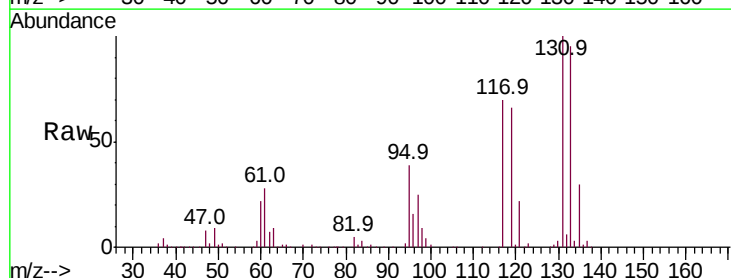
Manual Integrations
APPROVED

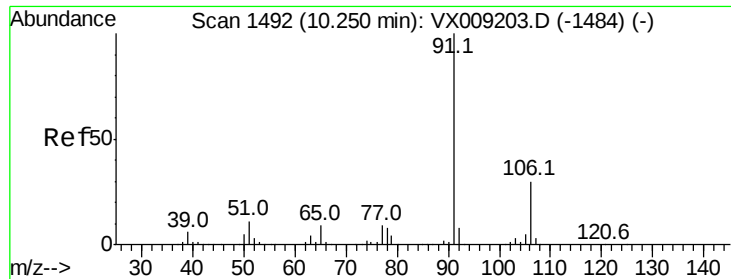
MMDadoda
5/13/2019 4:27:33 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 53.591 ug/l
RT: 10.22 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Tgt Ion:131 Resp: 90815
Ion Ratio Lower Upper
131 100
133 94.6 47.7 143.1
119 66.6 33.5 100.4





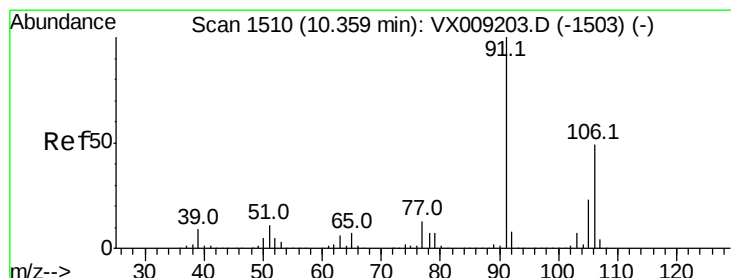
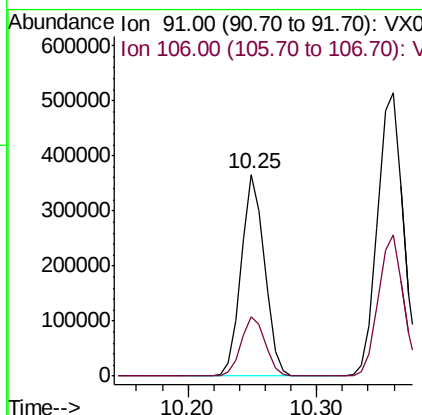
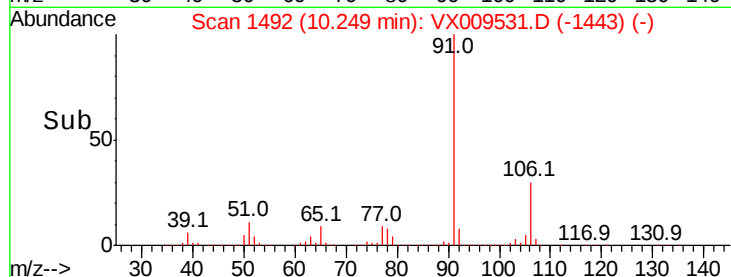
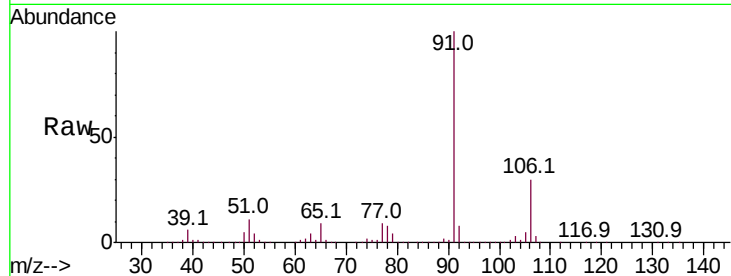
#67
Ethyl Benzene
Concen: 53.396 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. -0.00 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 459330
Ion Ratio Lower Upper
91 100
106 29.5 24.0 36.0

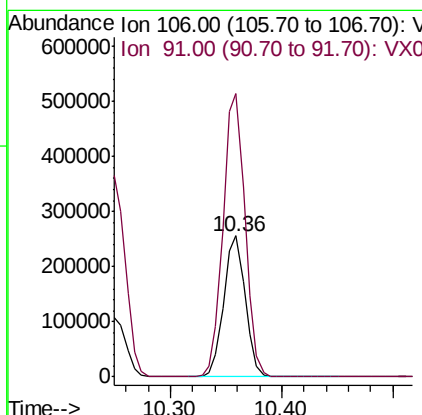
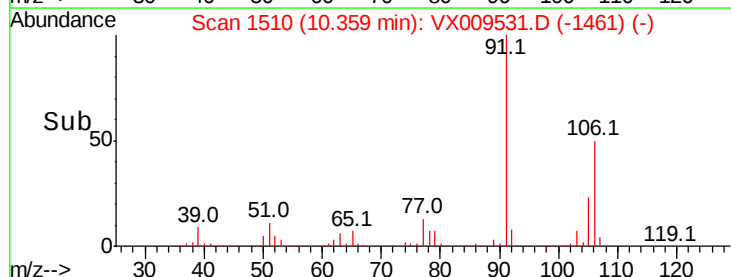
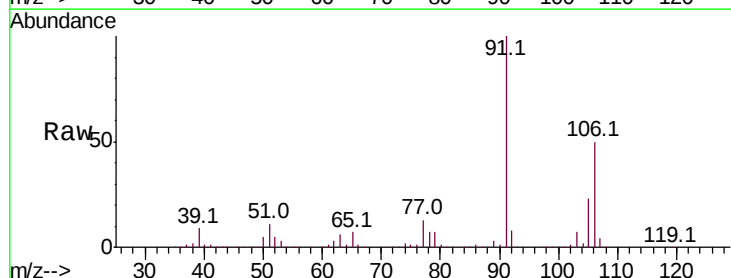
Manual Integrations
APPROVED

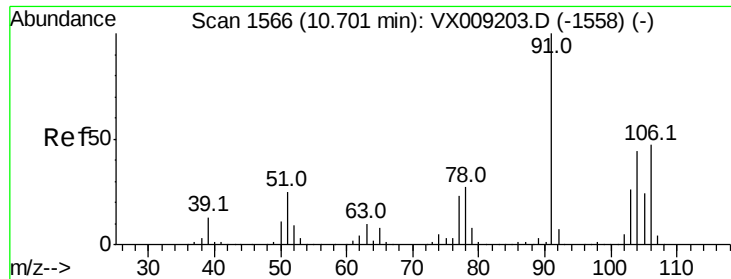
MMDadoda
5/13/2019 4:27:33 PM



#68
m/p-Xylenes
Concen: 108.912 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Tgt Ion: 106 Resp: 342372
Ion Ratio Lower Upper
106 100
91 205.1 164.0 246.0





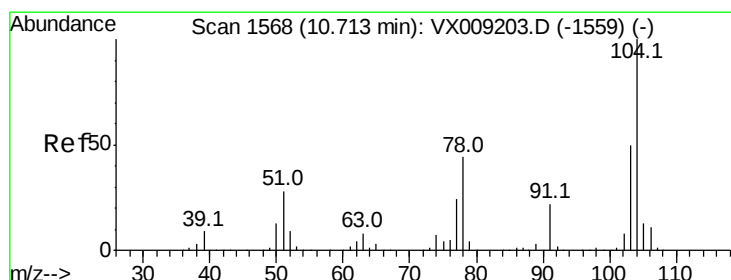
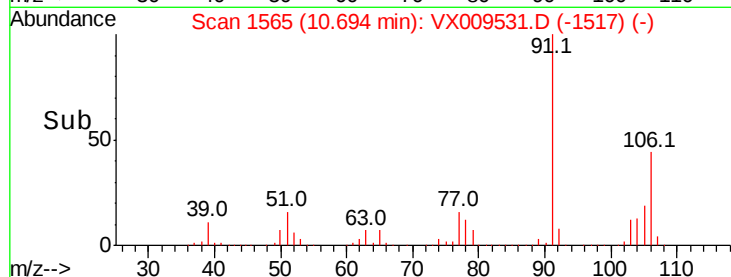
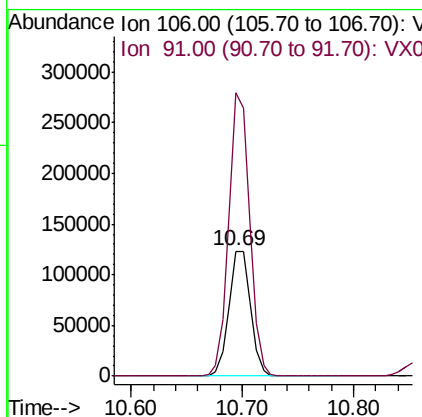
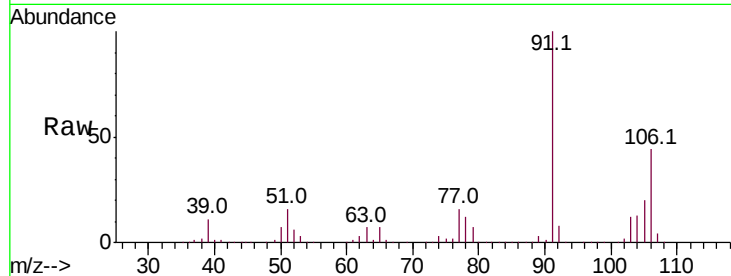
#69
o-Xylene
Concen: 53.529 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. -0.01 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tot Ion:106 Resp: 166027
Ion Ratio Lower Upper
106 100
91 220.0 109.5 328.4

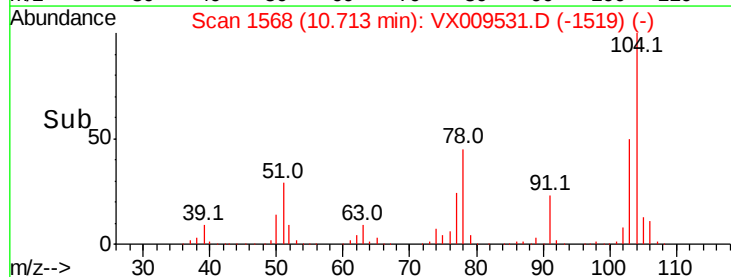
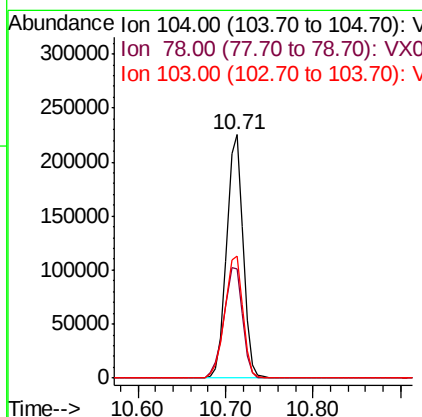
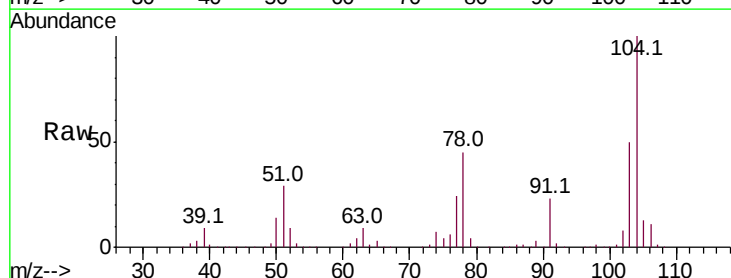
Manual Integrations
APPROVED

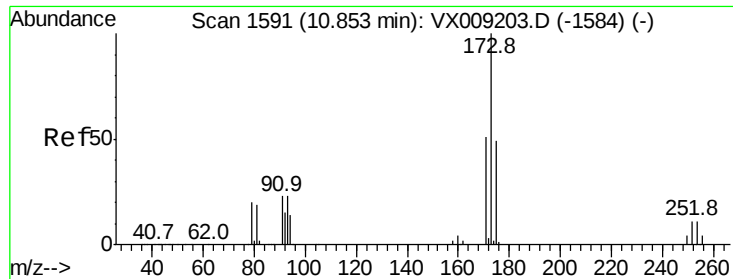
MMDadoda
5/13/2019 4:27:33 PM



#70
Styrene
Concen: 54.458 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Tgt Ion:104 Resp: 293571
Ion Ratio Lower Upper
104 100
78 51.1 41.0 61.4
103 54.9 43.8 65.6





#71

Bromoform

Concen: 54.354 ug/l

RT: 10.85 min Scan# 1591

Delta R.T. -0.00 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion:173 Resp: 74852

Ion Ratio Lower Upper

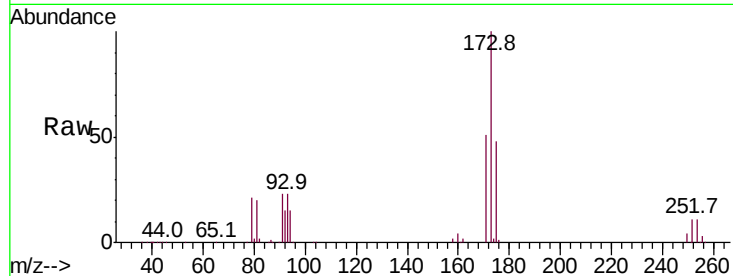
173 100

175 48.9 24.5 73.5

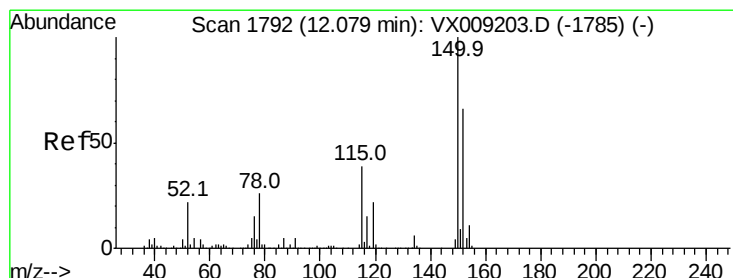
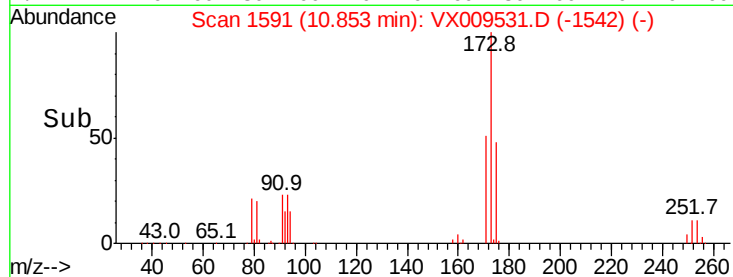
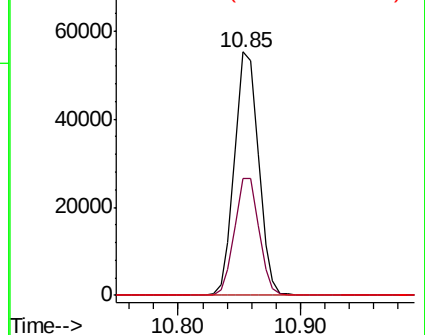
254 0.1 0.1 0.1#

Manual Integrations
APPROVED

MMDadoda
5/13/2019 4:27:33 PM



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: VX009531.D

Acq: 11 May 2019 17:50

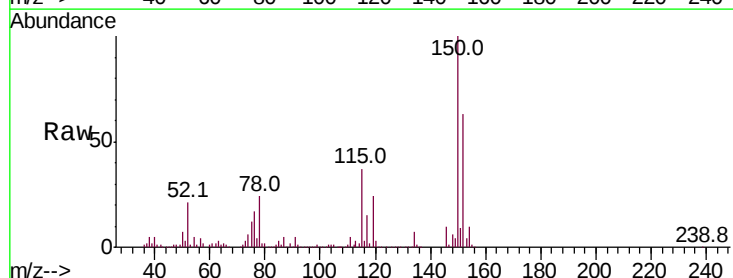
Tgt Ion:152 Resp: 119026

Ion Ratio Lower Upper

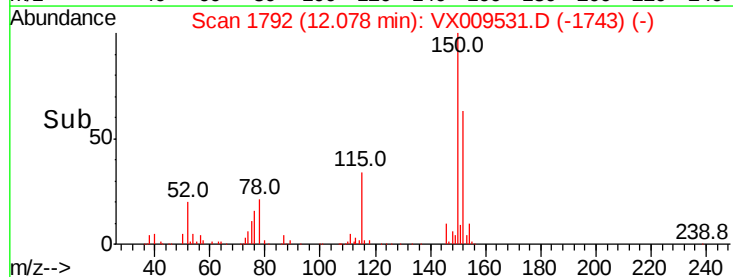
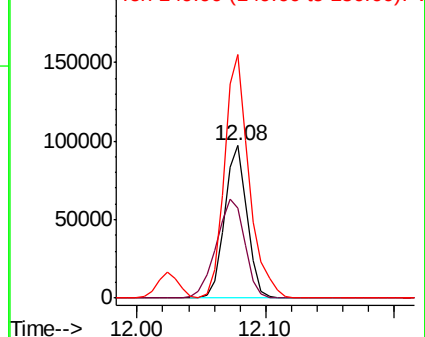
152 100

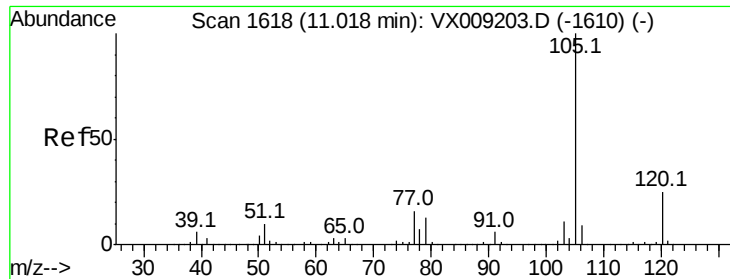
115 82.4 41.2 123.6

150 174.9 0.0 346.4



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





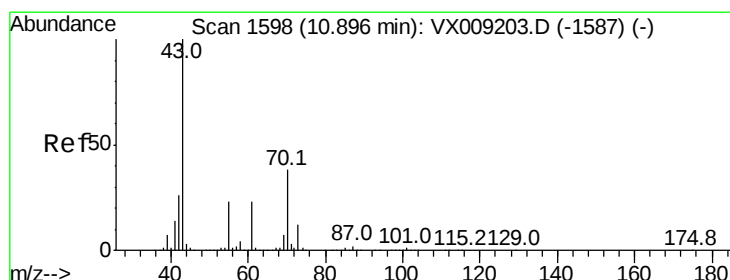
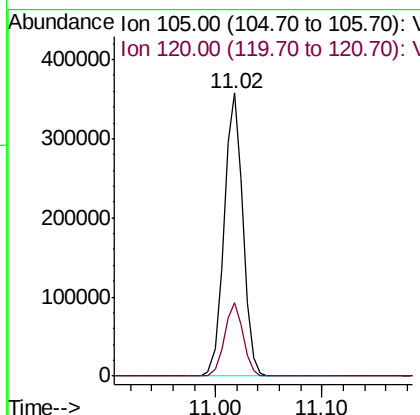
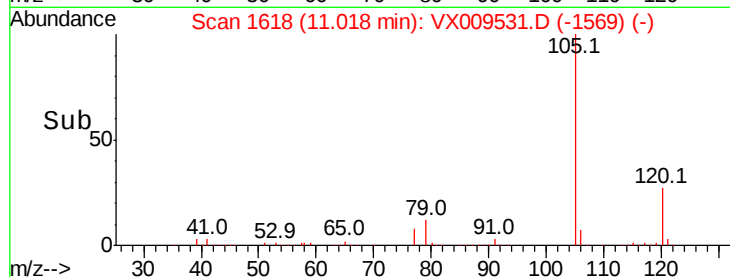
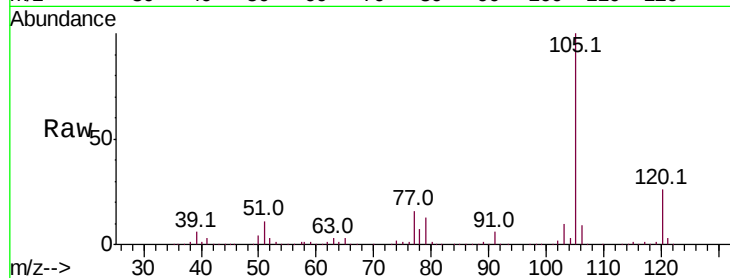
#73
Isopropylbenzene
Concen: 50.702 ug/l
RT: 11.02 min Scan# 1618
Delta R.T. -0.00 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tot Ion: 105 Resp: 438849
Ion Ratio Lower Upper
105 100
120 25.8 12.8 38.3

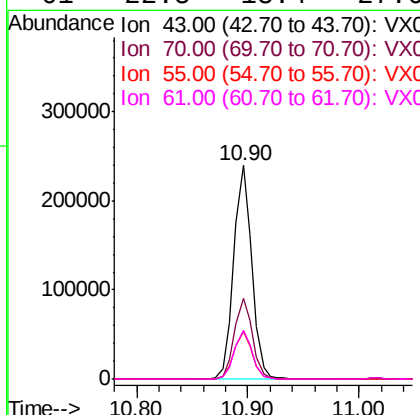
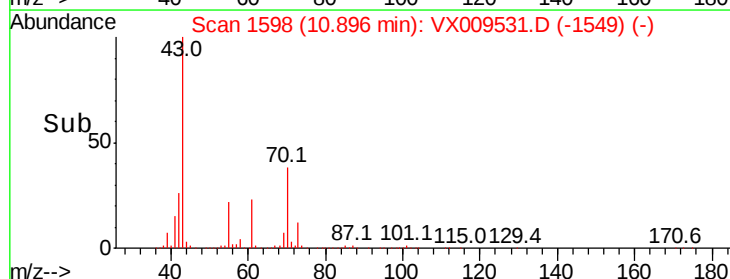
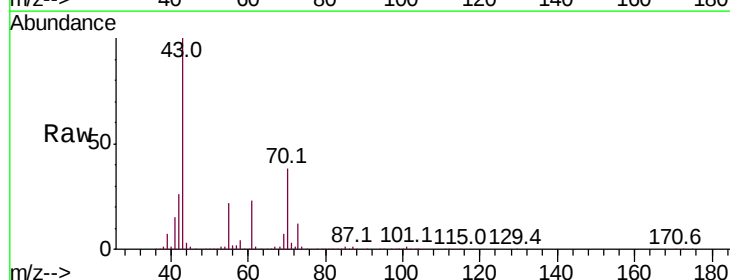
Manual Integrations
APPROVED

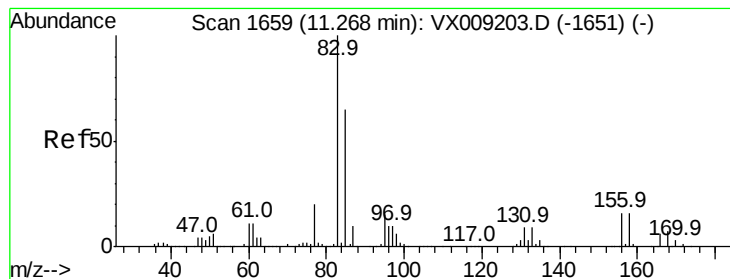
MMDadoda
5/13/2019 4:27:33 PM



#74
N-ethyl acetate
Concen: 53.268 ug/l
RT: 10.90 min Scan# 1598
Delta R.T. -0.00 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Tgt Ion: 43 Resp: 268801
Ion Ratio Lower Upper
43 100
70 37.7 30.0 45.0
55 22.5 17.9 26.9
61 22.5 18.4 27.6





#75

1,1,2,2-Tetrachloroethane

Concen: 51.141 ug/l

RT: 11.27 min Scan# 1659

Delta R.T. -0.00 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

Instrument :

MSVOA_X

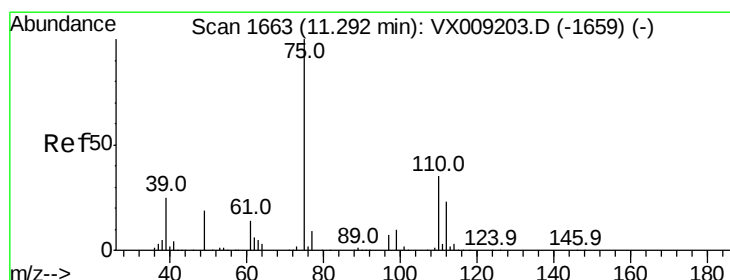
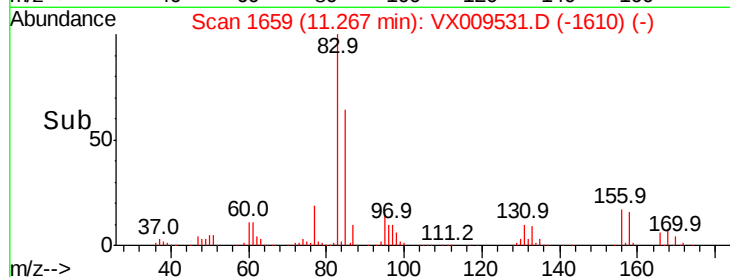
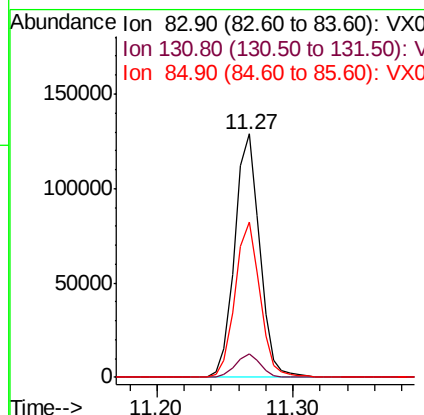
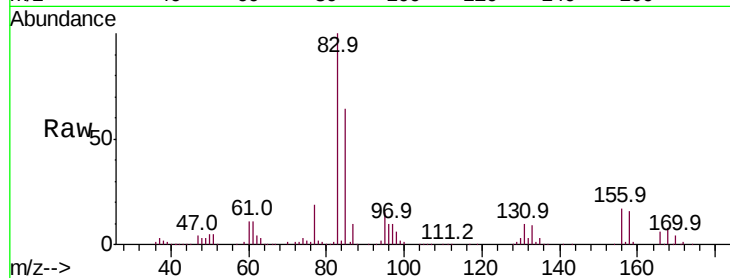
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	165011
Ion Ratio	Lower	Upper	
83	100		
131	9.7	4.6	13.8
85	63.8	32.0	96.2

Manual Integrations
APPROVED

MMDadoda
5/13/2019 4:27:33 PM



#76

1,2,3-Trichloropropane

Concen: 51.308 ug/l m

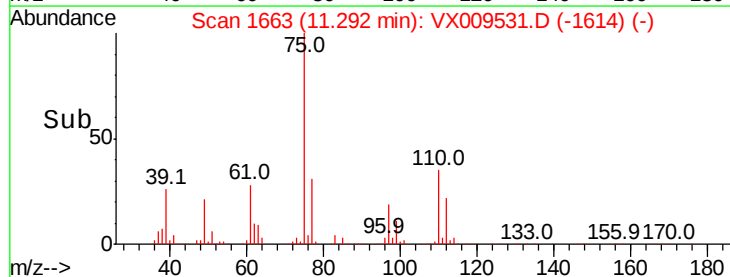
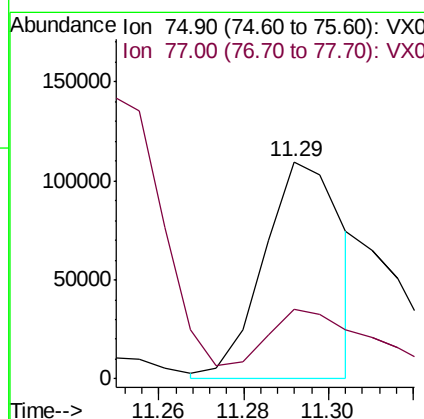
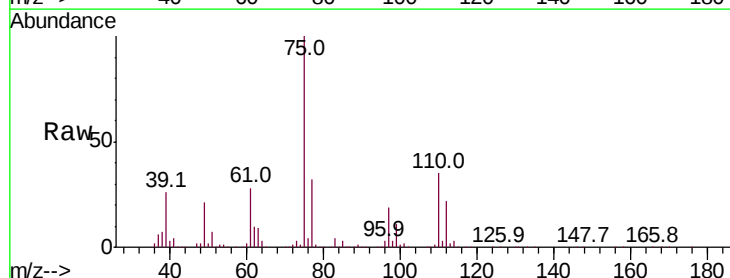
RT: 11.29 min Scan# 1663

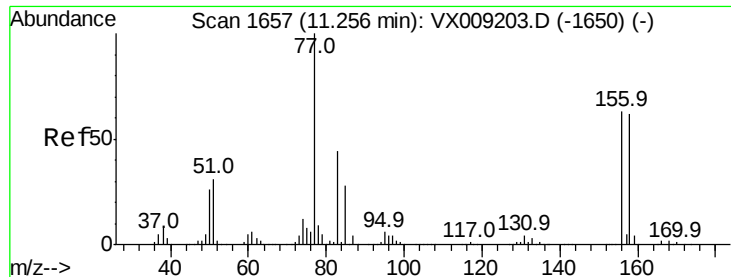
Delta R.T. -0.00 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

Tgt Ion:	75	Resp:	141659
Ion Ratio	Lower	Upper	
75	100		
77	44.1	22.1	66.1





#77

Bromobenzene

Concen: 51.505 ug/l

RT: 11.26 min Scan# 1657

Delta R.T. -0.00 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

Instrument :

MSVOA_X

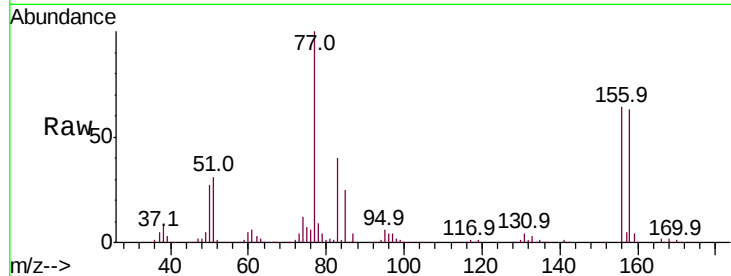
ClientSampleId :

VSTDCCC050EC

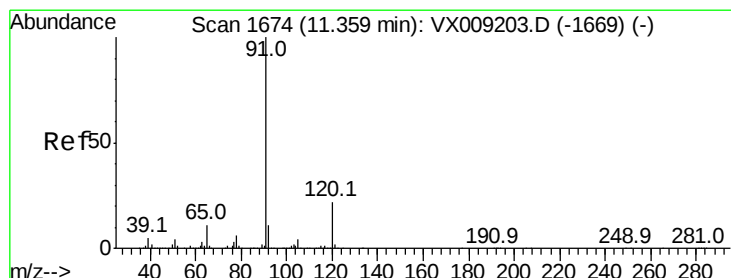
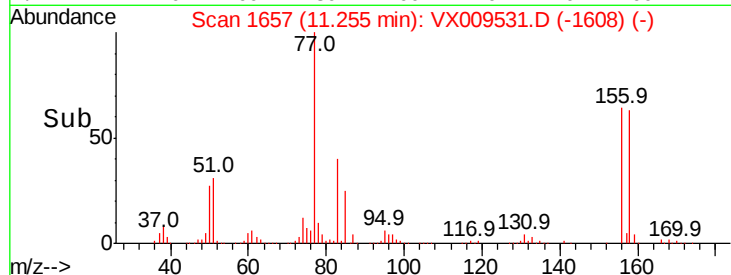
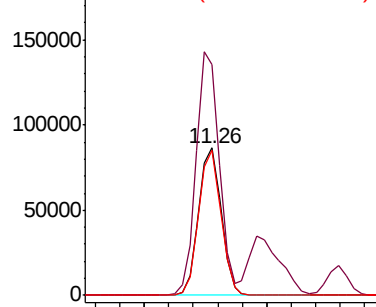
Tot Ion:	156	Resp:	110650
Ion Ratio	Lower	Upper	
156	100		
77	168.1	84.8	254.3
158	96.8	49.1	147.3

Manual Integrations
APPROVED

MMDadoda
5/13/2019 4:27:33 PM



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: 51.662 ug/l

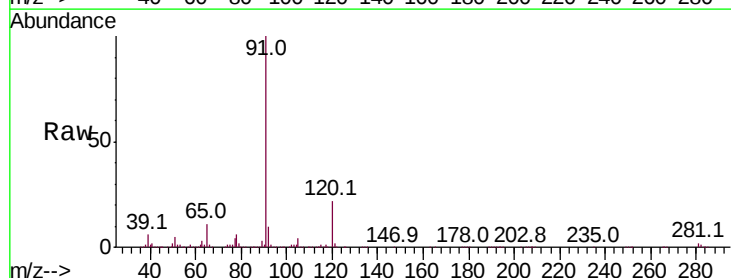
RT: 11.36 min Scan# 1674

Delta R.T. -0.00 min

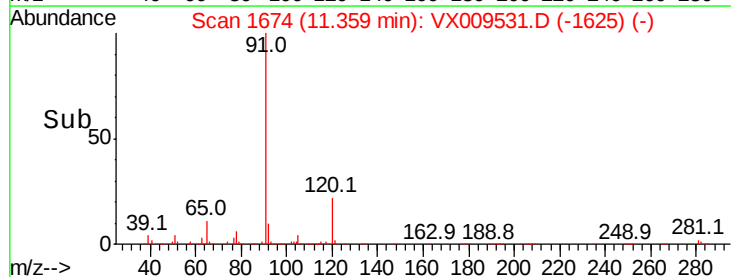
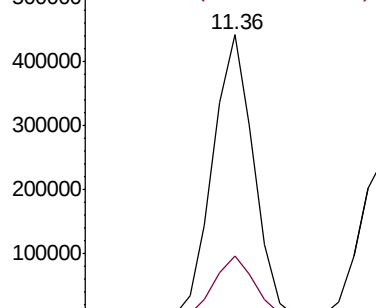
Lab File: VX009531.D

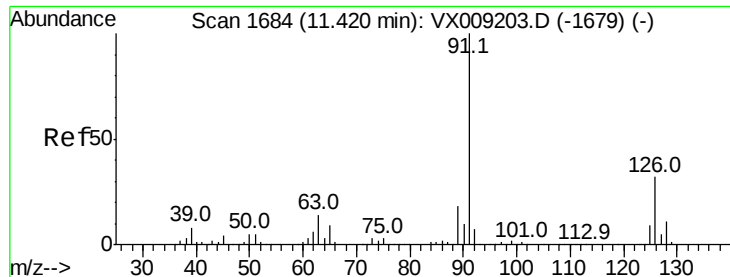
Acq: 11 May 2019 17:50

Tgt Ion:	91	Resp:	510677
Ion Ratio	Lower	Upper	
91	100		
120	22.1	11.0	33.0



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





#79

2-Chlorotoluene

Concen: 50.176 ug/l

RT: 11.42 min Scan# 1684

Delta R.T. -0.00 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

Instrument :

MSVOA_X

ClientSampled :

VSTDCCC050EC

Tot Ion: 91 Resp: 305999

Ion Ratio Lower Upper

91 100

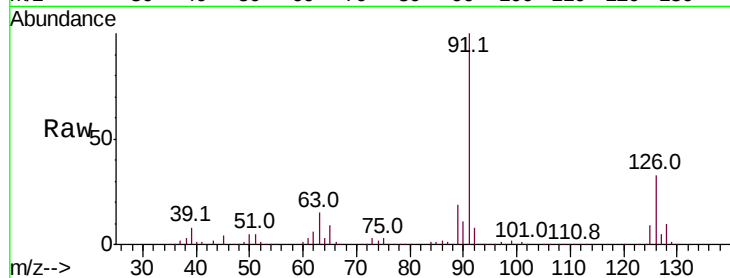
126 32.7 16.3 48.9

Manual Integrations

APPROVED

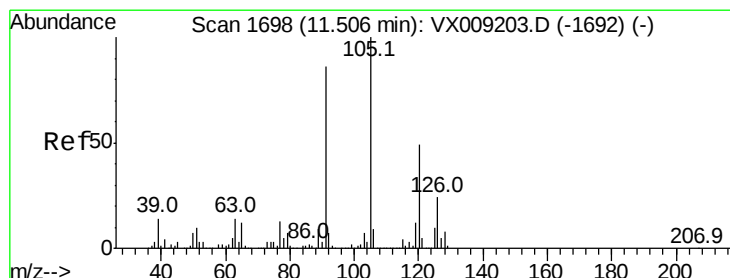
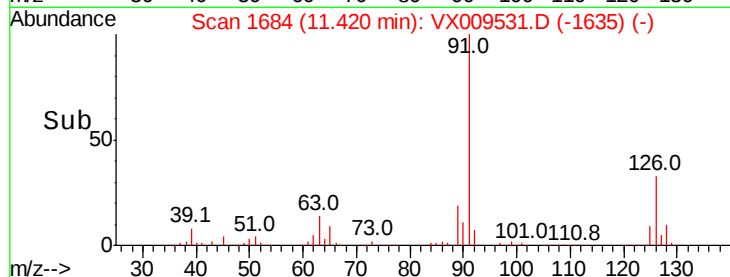
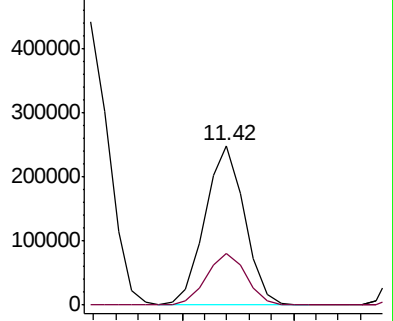
MMDadoda

5/13/2019 4:27:33 PM



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 51.838 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX009531.D

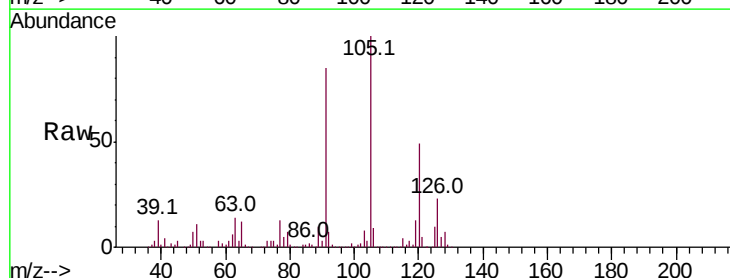
Acq: 11 May 2019 17:50

Tgt Ion:105 Resp: 377789

Ion Ratio Lower Upper

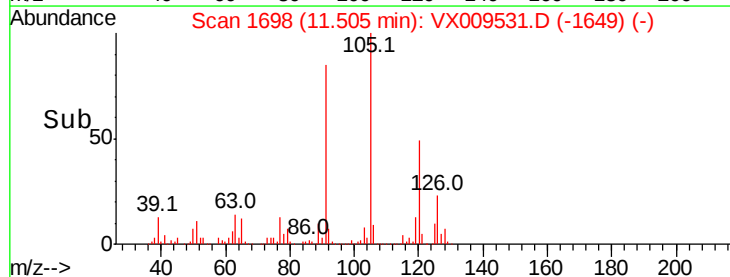
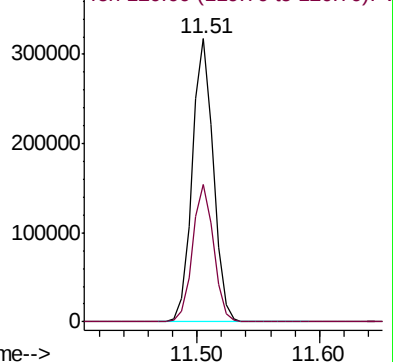
105 100

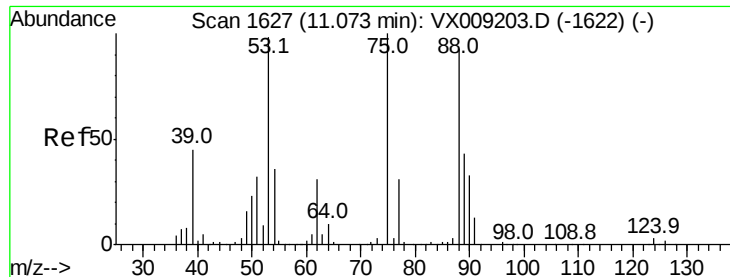
120 48.6 24.3 72.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 50.972 ug/l

RT: 11.07 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion: 75 Resp: 55003

Ion Ratio Lower Upper

75 100

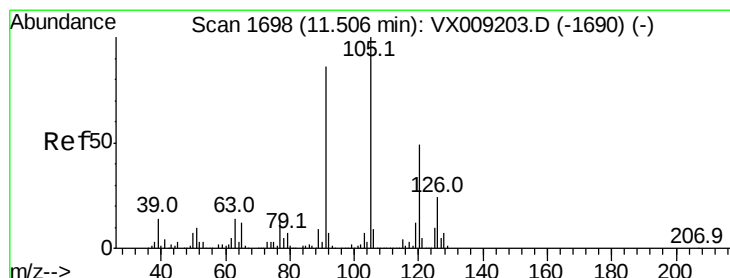
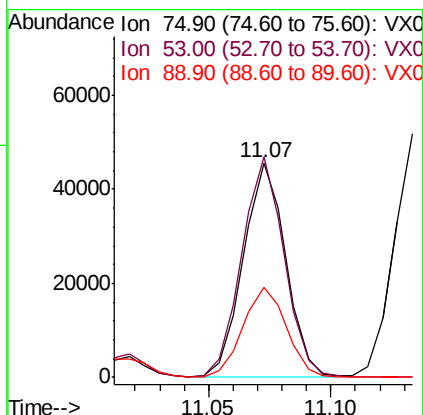
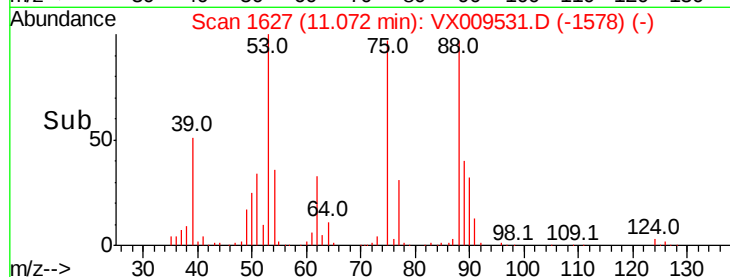
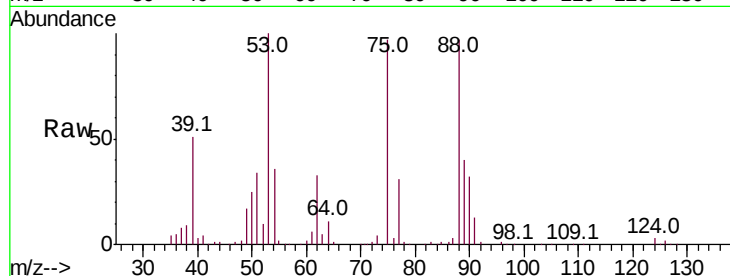
53 102.8 79.0 118.6

89 43.2 34.7 52.1

Manual Integrations
APPROVED

MMDadoda

5/13/2019 4:27:33 PM



#82

4-Chlorotoluene

Concen: 51.284 ug/l

RT: 11.51 min Scan# 1699

Delta R.T. 0.01 min

Lab File: VX009531.D

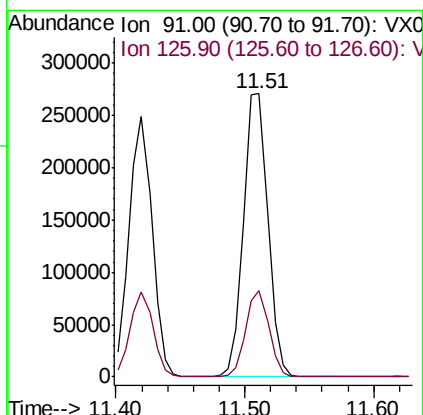
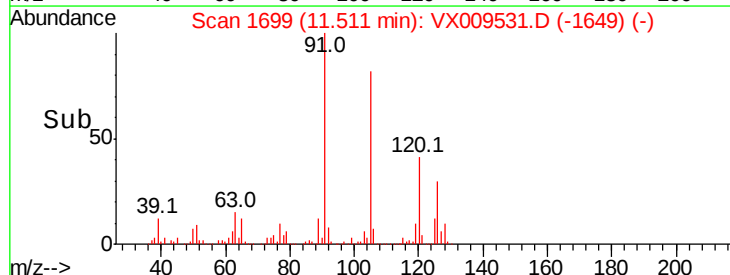
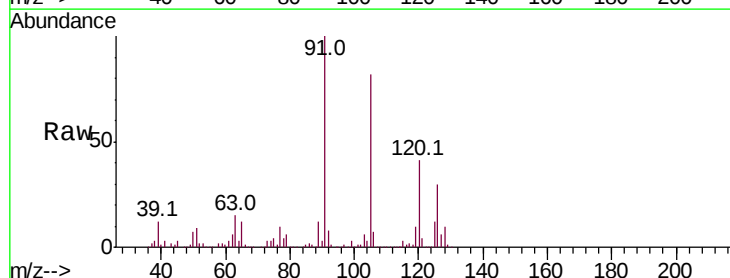
Acq: 11 May 2019 17:50

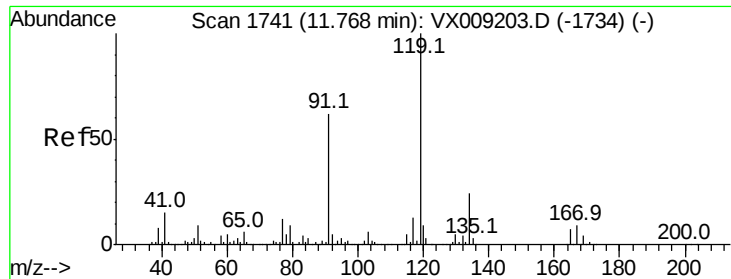
Tgt Ion: 91 Resp: 353327

Ion Ratio Lower Upper

91 100

126 29.0 14.5 43.6





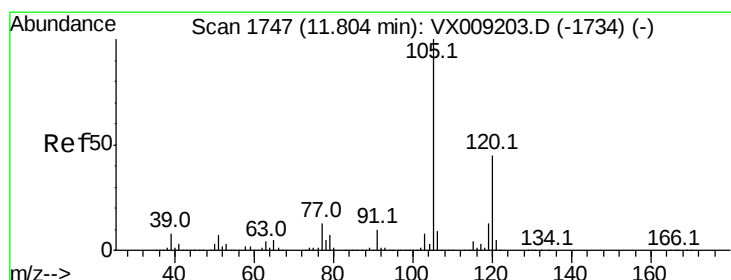
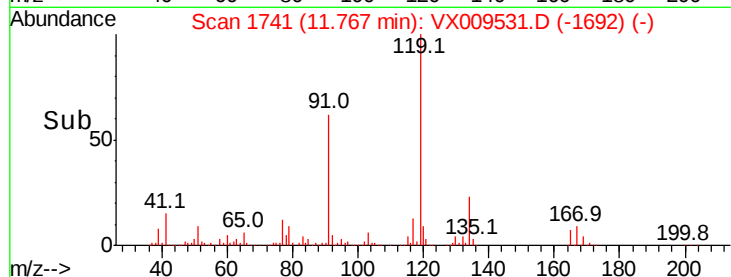
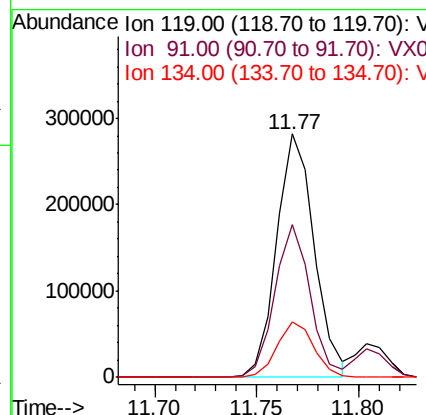
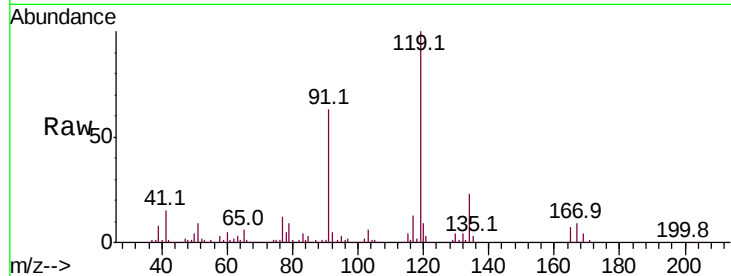
#83
tert-Butylbenzene
Concen: 51.153 ug/l
RT: 11.77 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
119	100			
91	59.3	29.5	88.5	
134	22.4	11.4	34.1	

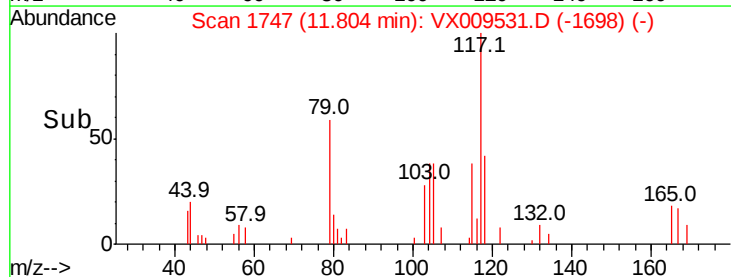
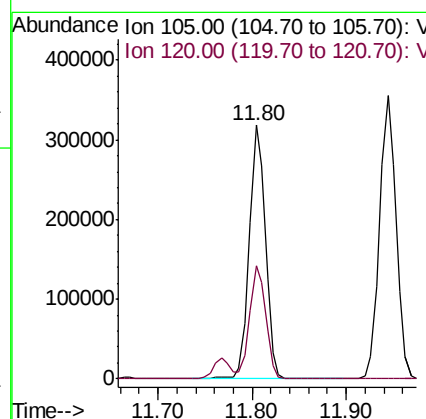
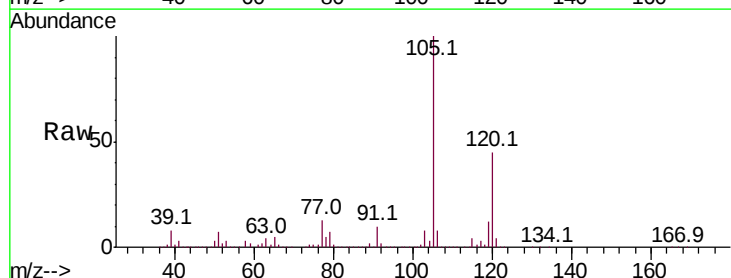
Manual Integrations
APPROVED

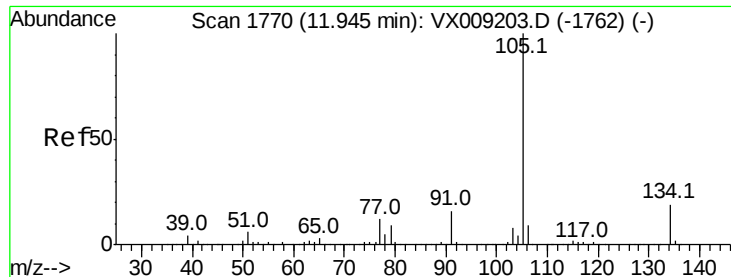
MMDadoda
5/13/2019 4:27:33 PM



#84
1,2,4-Trimethylbenzene
Concen: 51.986 ug/l
RT: 11.80 min Scan# 1747
Delta R.T. -0.00 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Tgt Ion	Ratio	Resp	Lower	Upper
105	100			
120	44.1	22.0	66.0	





#85

sec-Butylbenzene

Concen: 51.554 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 433329

Ion Ratio Lower Upper

105 100

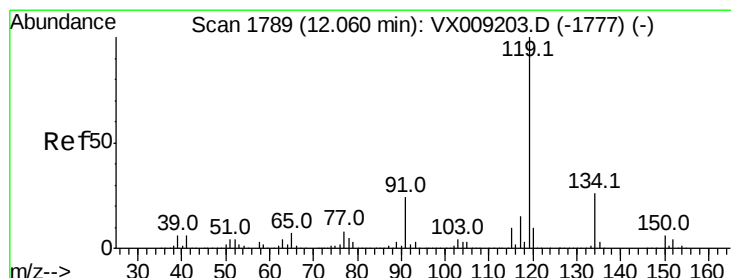
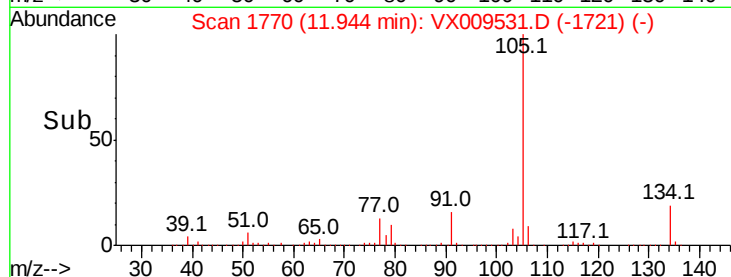
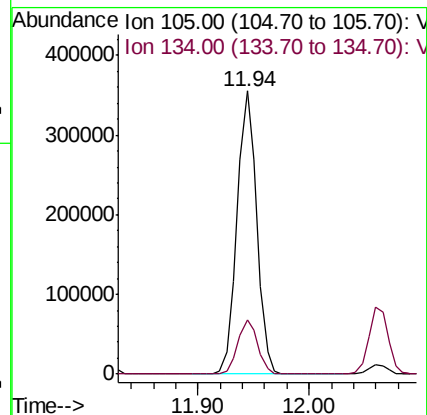
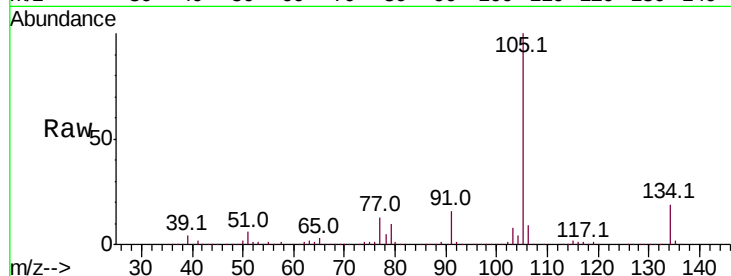
134 19.4 9.7 28.9

Manual Integrations

APPROVED

MMDadoda

5/13/2019 4:27:33 PM



#86

p-Isopropyltoluene

Concen: 52.110 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VX009531.D

Acq: 11 May 2019 17:50

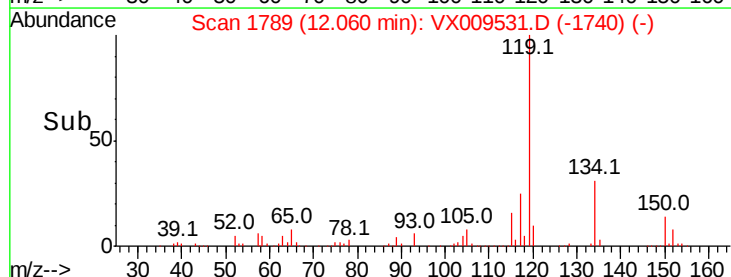
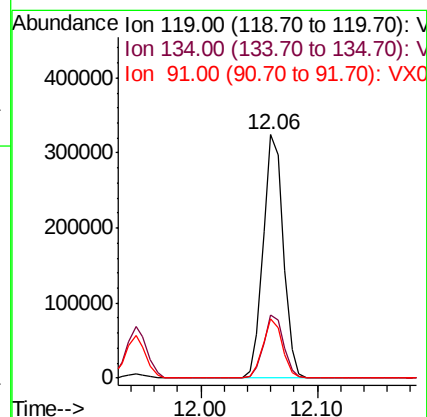
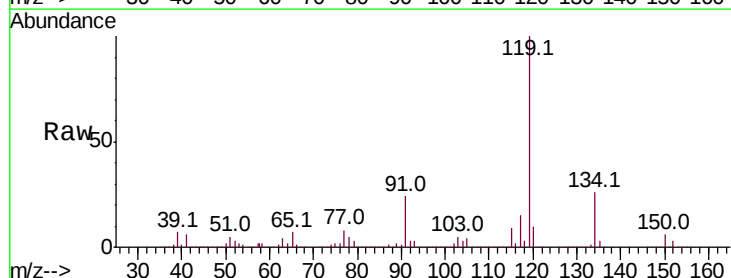
Tgt Ion:119 Resp: 393762

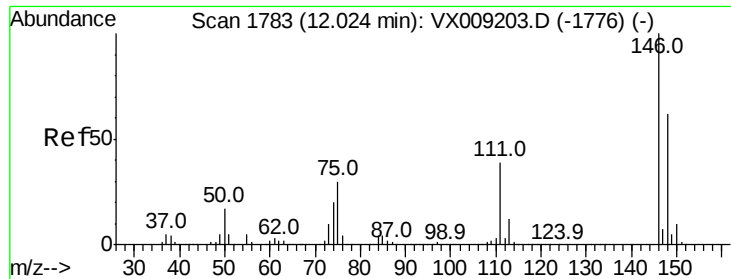
Ion Ratio Lower Upper

119 100

134 25.7 12.9 38.7

91 23.8 11.8 35.4





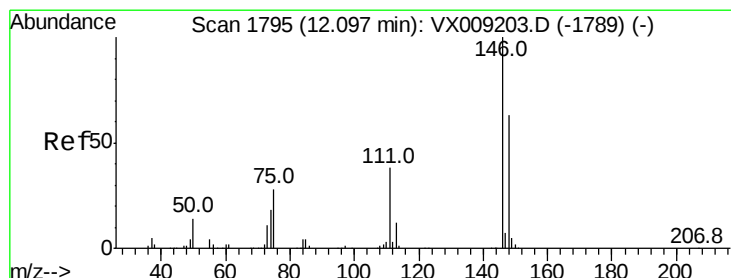
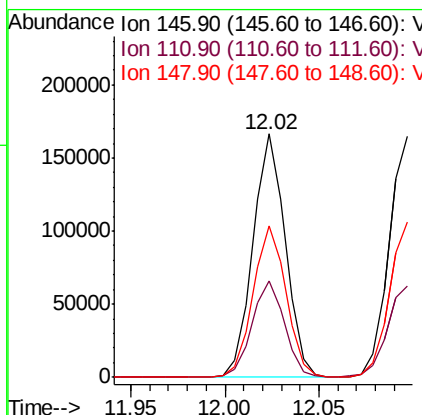
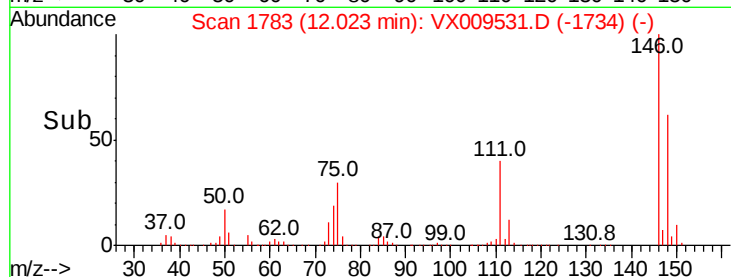
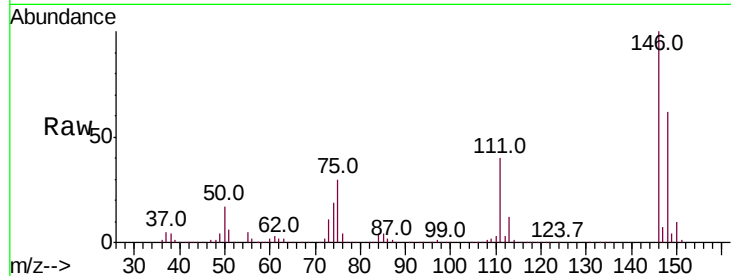
#87
 1,3-Dichlorobenzene
 Concen: 51.832 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. -0.00 min
 Lab File: VX009531.D
 Acq: 11 May 2019 17:50

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.9	20.0	59.9
148	63.3	31.8	95.3

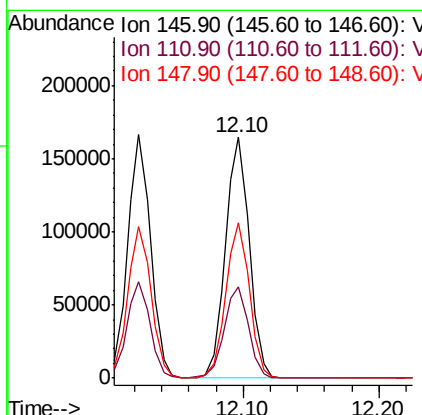
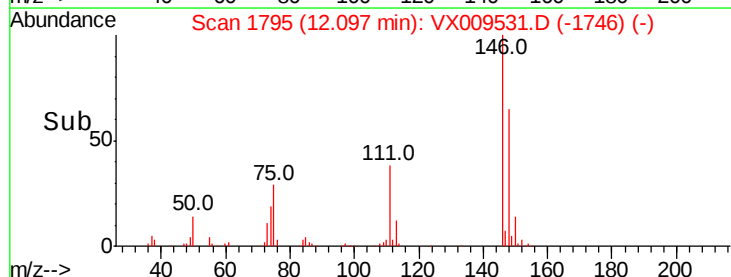
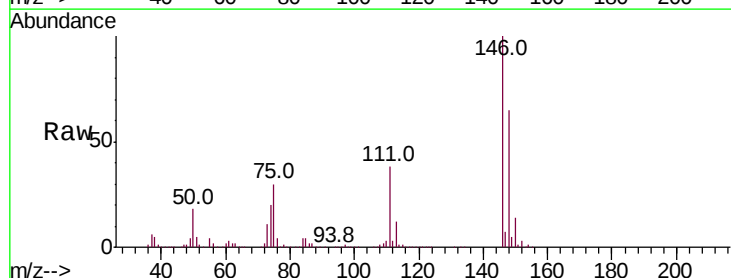
Manual Integrations
 APPROVED

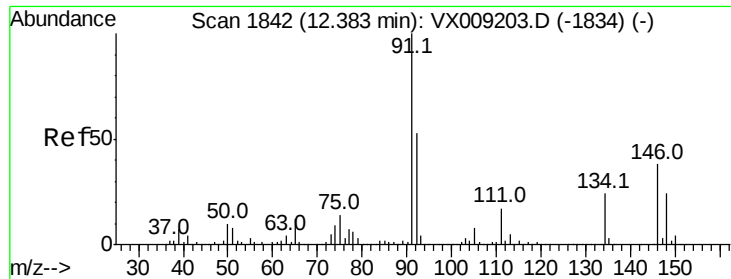
MMDadoda
 5/13/2019 4:27:33 PM



#88
 1,4-Dichlorobenzene
 Concen: 51.612 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. -0.00 min
 Lab File: VX009531.D
 Acq: 11 May 2019 17:50

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.8	19.6	58.8
148	64.0	31.8	95.3





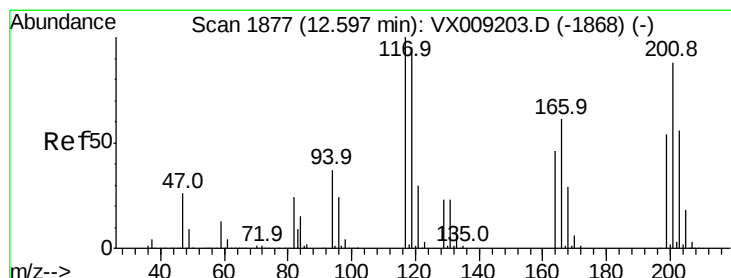
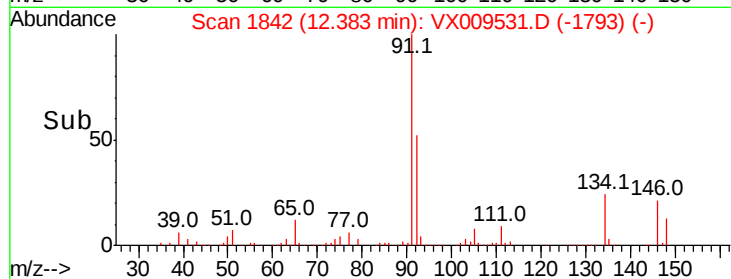
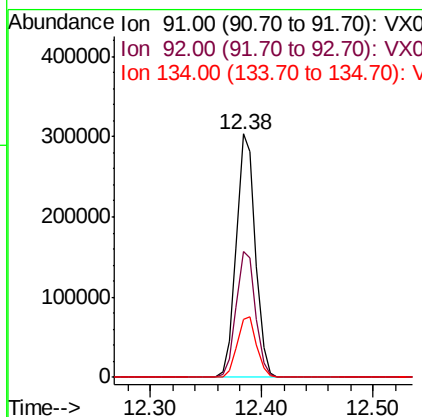
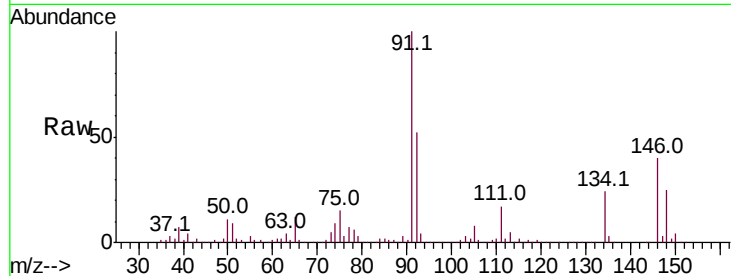
#89
n-Butylbenzene
Concen: 52.511 ug/l
RT: 12.38 min Scan# 1842
Delta R.T. -0.00 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
91	100			
92	52.5	26.5	79.5	
134	25.1	12.4	37.2	

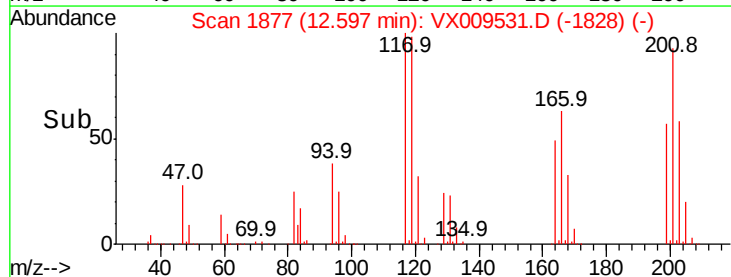
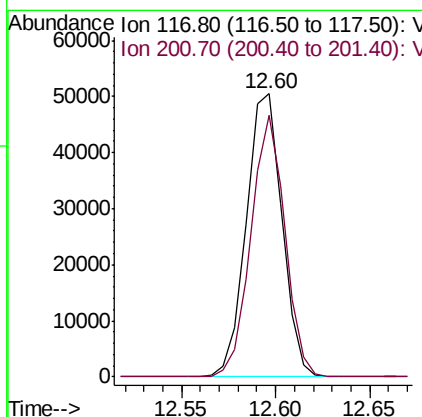
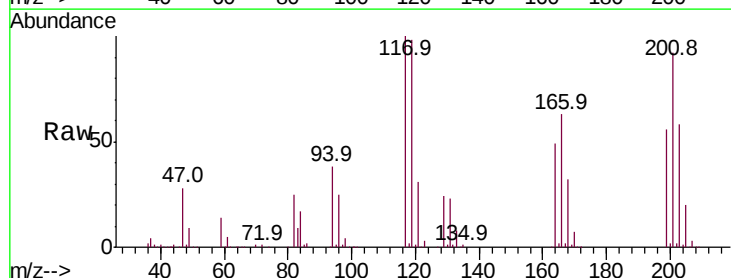
Manual Integrations
APPROVED

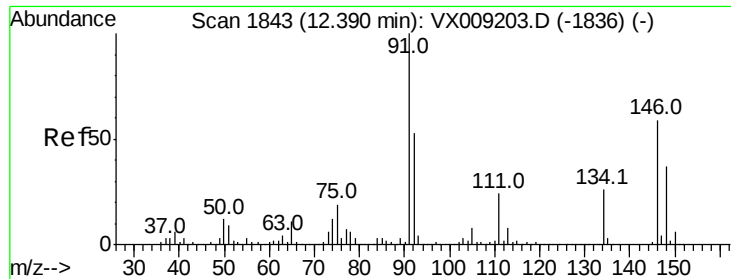
MMDadoda
5/13/2019 4:27:33 PM



#90
Hexachloroethane
Concen: 51.700 ug/l
RT: 12.60 min Scan# 1877
Delta R.T. -0.00 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
201	87.5	42.3	126.9	





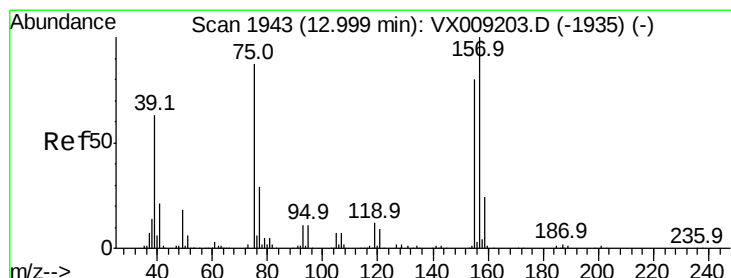
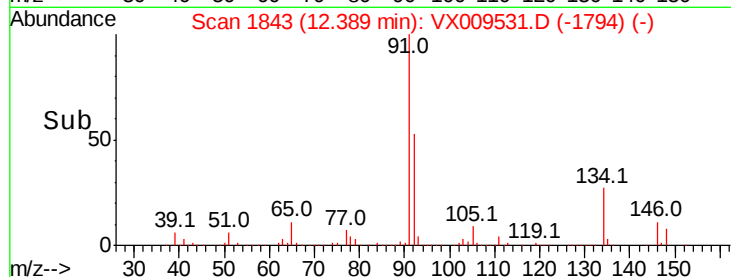
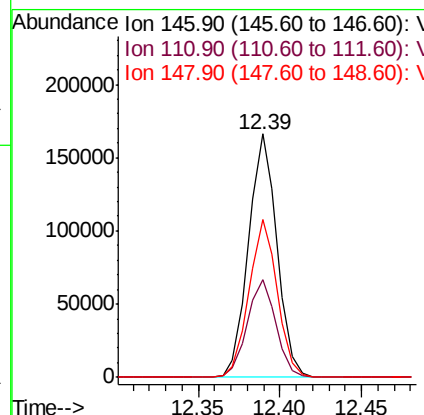
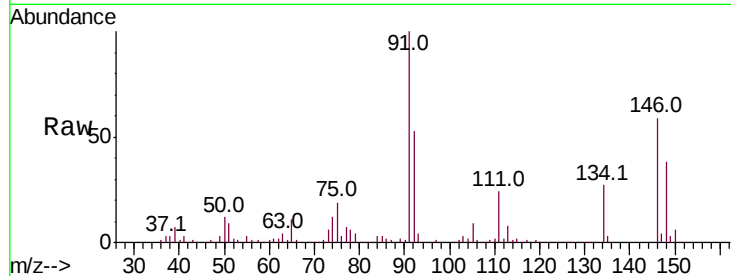
#91
 1,2-Dichlorobenzene
 Concen: 51.775 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. -0.00 min
 Lab File: VX009531.D
 Acq: 11 May 2019 17:50

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
146	100	201963		
111	40.6	20.8	62.4	
148	64.4	31.9	95.9	

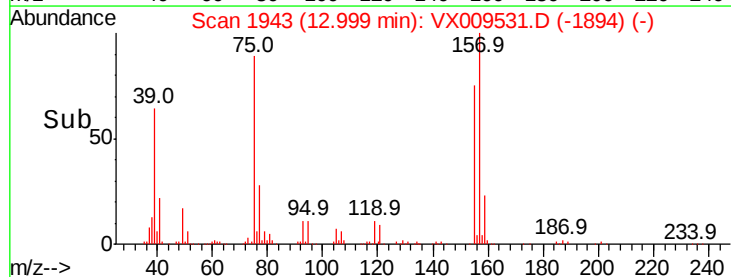
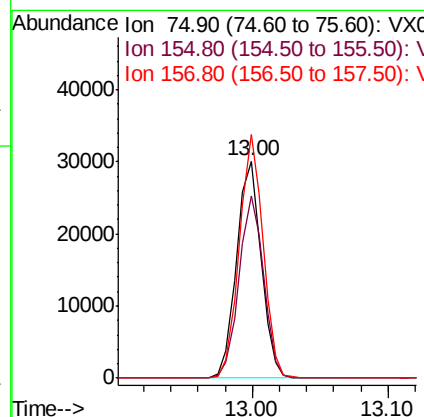
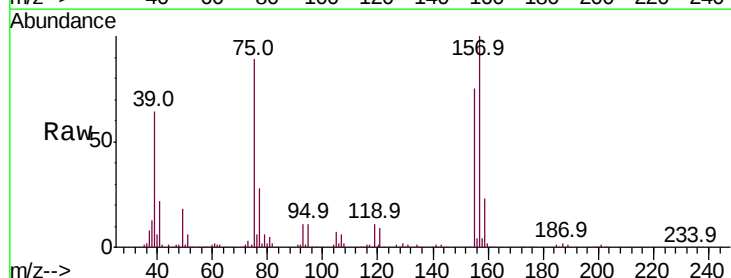
Manual Integrations
 APPROVED

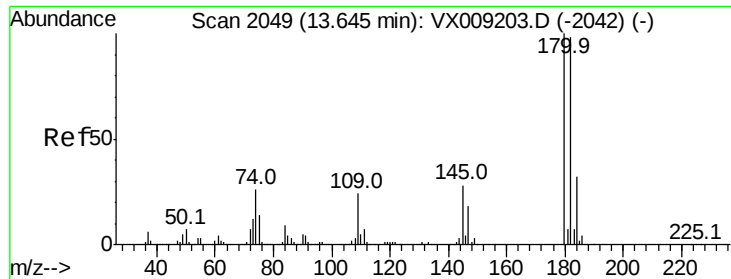
MMDadoda
 5/13/2019 4:27:33 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 52.359 ug/l
 RT: 13.00 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VX009531.D
 Acq: 11 May 2019 17:50

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	37899		
155	83.6	42.0	126.0	
157	108.0	53.2	159.6	





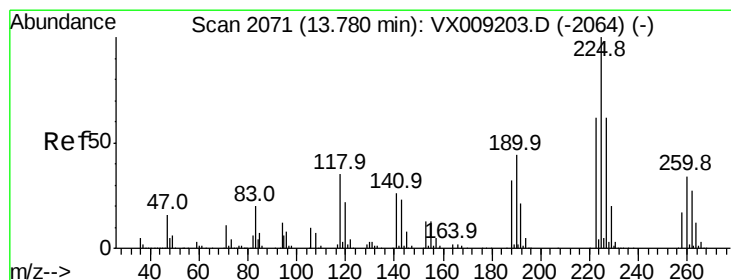
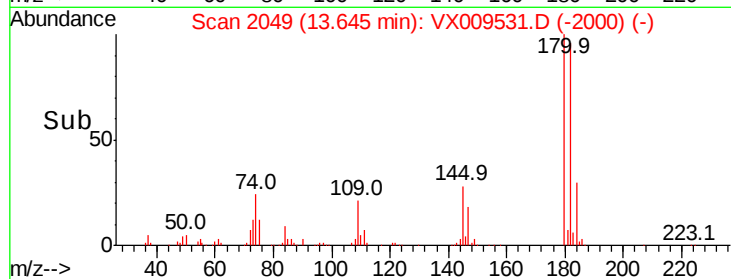
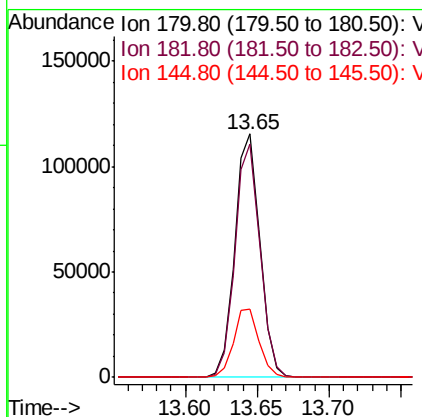
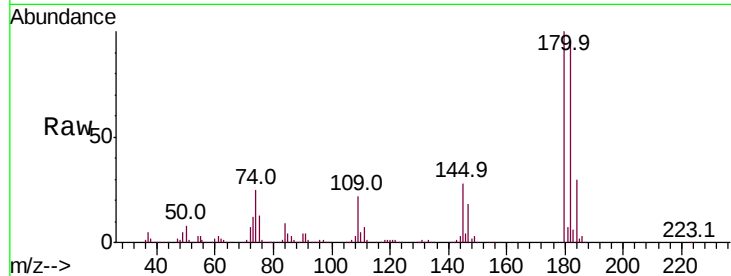
#93
 1,2,4-Trichlorobenzene
 Concen: 52.912 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. -0.00 min
 Lab File: VX009531.D
 Acq: 11 May 2019 17:50

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
180	100	141141		
182	95.4	48.4	145.2	
145	28.6	14.6	43.8	

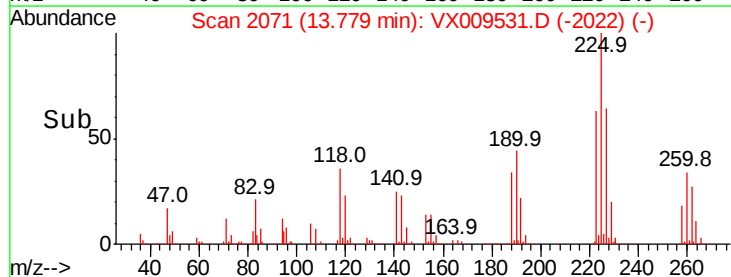
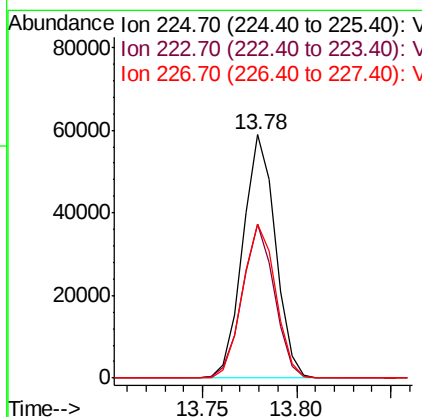
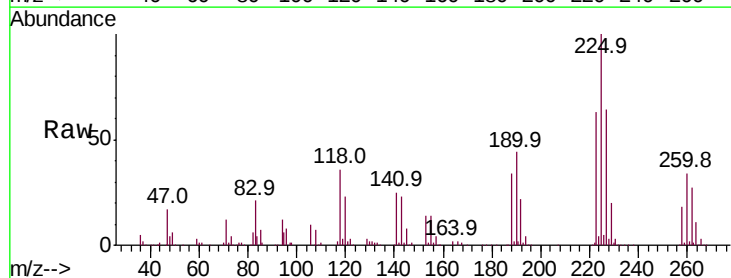
Manual Integrations
 APPROVED

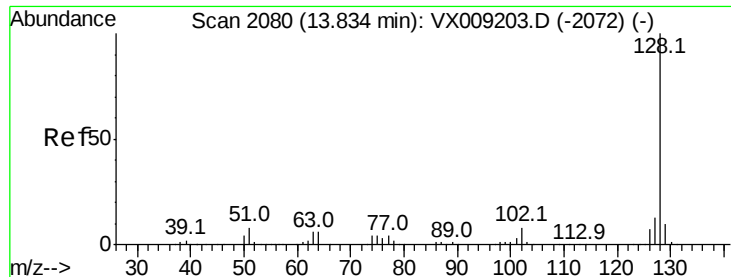
MMDadoda
 5/13/2019 4:27:33 PM



#94
 Hexachlorobutadiene
 Concen: 51.883 ug/l
 RT: 13.78 min Scan# 2071
 Delta R.T. -0.00 min
 Lab File: VX009531.D
 Acq: 11 May 2019 17:50

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	70674		
223	62.1	31.3	93.8	
227	64.6	31.8	95.3	





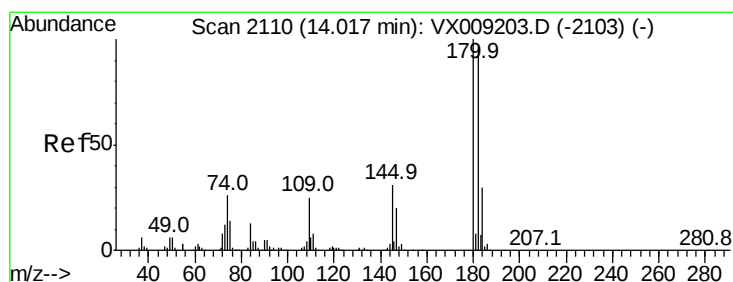
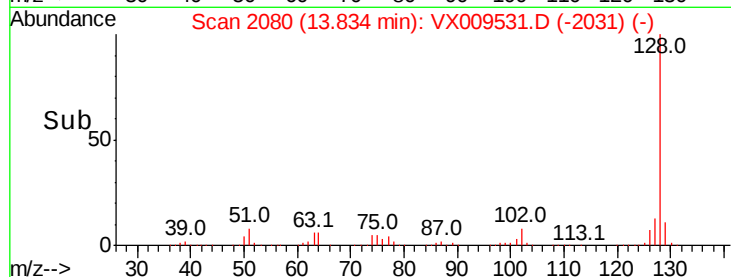
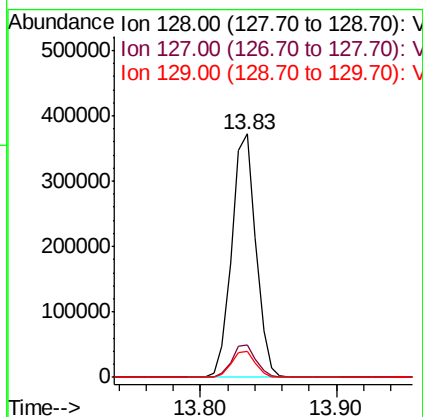
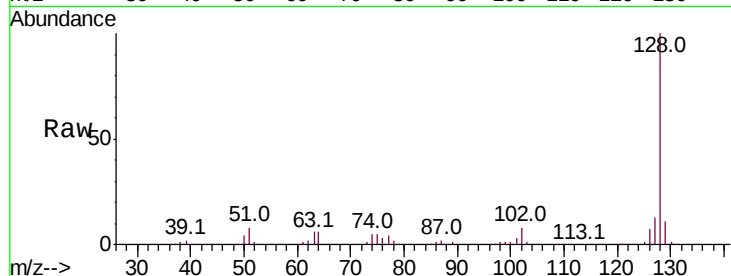
#95
Naphthalene
Concen: 52.891 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.4	15.6
129	10.9	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
5/13/2019 4:27:33 PM



#96
1,2,3-Trichlorobenzene
Concen: 51.966 ug/l
RT: 14.02 min Scan# 2110
Delta R.T. -0.00 min
Lab File: VX009531.D
Acq: 11 May 2019 17:50

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.8	143.4
145	31.3	15.4	46.4

