

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071919\
 Data File : VX010989.D
 Acq On : 19 Jul 2019 03:48
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 7/19/2019 9:56:17 AM

Quant Time: Jul 19 04:14:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071919W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 03:27:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	38187	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	207848	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	189041	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	74972	28.96	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.53%
60) 4-Bromofluorobenzene	11.13	95	89891	28.89	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.30%
63) Toluene-d8	8.71	98	254579	30.64	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.13%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	51314	20.325	ug/l 96
3) Chloromethane	1.33	50	43822	19.739	ug/l 99
4) Vinyl Chloride	1.41	62	47853	20.670	ug/l 97
5) Bromomethane	1.64	94	20126	15.792	ug/l 95
6) Chloroethane	1.73	64	31550	23.035	ug/l 91
7) Trichlorofluoromethane	1.93	101	77303	20.105	ug/l 94
8) Diethyl Ether	2.19	74	25117	19.892	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	42088	19.805	ug/l 98
10) 1,1-Dichloroethene	2.37	96	41612	19.484	ug/l 98
11) Methyl Iodide	2.51	142	29974	10.451	ug/l 95
12) Methyl Acetate	2.78	43	91993	30.669	ug/l 99
13) Acrolein	2.29	56	22707	63.137	ug/l 96
14) Acrylonitrile	3.14	53	119628	101.901	ug/l 100
15) Acetone	2.44	58	33688	103.051	ug/l 98
16) Carbon Disulfide	2.57	76	109792	20.007	ug/l 99
17) Allyl chloride	2.73	41	59946	19.389	ug/l 99
18) Methylene Chloride	2.85	84	47936	20.158	ug/l 95
19) trans-1,2-Dichloroethene	3.17	96	44524	19.735	ug/l 99
20) Diisopropyl ether	3.85	45	127812	19.582	ug/l 93
21) 1,1-Dichloroethane	3.70	63	74573	19.854	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	51225	19.742	ug/l 98
23) tert-Butyl Alcohol	3.04	59	61002	99.523	ug/l 100
24) Methyl tert-Butyl Ether	3.20	73	135110	19.707	ug/l 100
25) Chloroform	5.21	83	79637	19.358	ug/l 100
26) Cyclohexane	5.58	56	67193	19.549	ug/l # 96
29) 1,1-Dichloropropene	5.80	75	58134	19.889	ug/l 100
30) 2-Butanone	4.67	43	160360	101.636	ug/l 100
31) 2,2-Dichloropropane	4.59	77	41977	16.452	ug/l 98
32) 1,1,1-Trichloroethane	5.49	97	67809	19.237	ug/l 99
33) Carbon Tetrachloride	5.78	117	59076	19.276	ug/l 95
34) Benzene	6.14	78	179810	20.507	ug/l 99
35) Methacrylonitrile	5.04	41	33048	20.120	ug/l 98
36) 1,2-Dichloroethane	6.20	62	62363	19.892	ug/l # 88
37) Trichloroethene	7.21	130	52851	20.589	ug/l 96
38) Methylcyclohexane	7.46	83	71845	19.476	ug/l 100
39) 1,2-Dichloropropane	7.51	63	45678	20.842	ug/l 95
40) Dibromomethane	7.66	93	32530	20.181	ug/l 99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071919\
 Data File : VX010989.D
 Acq On : 19 Jul 2019 03:48
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 7/19/2019 9:56:17 AM

Quant Time: Jul 19 04:14:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071919W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 03:27:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	56892	19.391	ug/l	100
42) Vinyl Acetate	3.81	43	419061	80.615	ug/l	99
43) Ethyl Acetate	4.84	43	55276	18.251	ug/l	98
44) Isopropyl Acetate	6.45	43	87044	17.645	ug/l	98
45) 1,4-Dioxane	7.74	88	26095	406.419	ug/l	97
46) Methyl methacrylate	7.77	41	47181	19.705	ug/l	99
47) n-amyl Acetate	10.90	43	70050	15.833	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	55438	17.929	ug/l	97
49) cis-1,3-Dichloropropene	8.43	75	64298	19.055	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	47896	20.303	ug/l	99
51) Ethyl methacrylate	9.18	69	71556	19.613	ug/l	97
52) 1,3-Dichloropropane	9.37	76	76254	20.115	ug/l	98
53) Dibromochloromethane	9.58	129	47755	18.744	ug/l	97
54) 1,2-Dibromoethane	9.67	107	51609	20.131	ug/l	96
55) 2-Chloroethyl vinyl ether	8.31	63	148079	95.842	ug/l	99
56) Bromoform	10.85	173	33421	17.613	ug/l	100
58) 4-Methyl-2-Pentanone	8.64	43	321593	100.732	ug/l	100
59) 2-Hexanone	9.49	43	249000	101.924	ug/l	99
61) Tetrachloroethene	9.34	164	51766	20.740	ug/l	95
62) Toluene	8.78	91	203446	20.258	ug/l	99
64) Chlorobenzene	10.14	112	130128	20.224	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	44838	19.174	ug/l	97
66) Ethyl Benzene	10.25	91	225053	19.907	ug/l	97
67) m/p-Xylenes	10.36	106	172026	39.771	ug/l	99
68) o-Xylene	10.69	106	83822	19.778	ug/l	99
69) Styrene	10.71	104	141457	19.856	ug/l	99
70) Isopropylbenzene	11.02	105	224352	19.879	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	74385	20.441	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	59406m	19.558	ug/l	
73) Bromobenzene	11.26	156	60687	19.930	ug/l	98
74) n-propylbenzene	11.36	91	249032	19.606	ug/l	100
75) 2-Chlorotoluene	11.42	91	149863	19.810	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	187107	19.587	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	12594	12.566	ug/l	97
78) 4-Chlorotoluene	11.51	91	170742	19.652	ug/l	99
79) tert-butylbenzene	11.77	119	182470	19.693	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	188575	19.603	ug/l	100
81) sec-Butylbenzene	11.94	105	215645	19.744	ug/l	99
82) p-Isopropyltoluene	12.06	119	199360	19.670	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	105424	19.612	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	104706	19.597	ug/l	99
85) n-Butylbenzene	12.38	91	164933	19.110	ug/l	99
86) Hexachloroethane	12.60	117	25956	16.238	ug/l	99
87) 1,2-Dichlorobenzene	12.39	146	104961	19.943	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.00	75	14307	17.858	ug/l	99
89) 1,2,4-Trichlorobenzene	13.65	180	70675	19.469	ug/l	97
90) Hexachlorobutadiene	13.78	225	33182	18.905	ug/l	98
91) Naphthalene	13.83	128	220187	19.879	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	71761	19.723	ug/l	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071919\
Data File : VX010989.D
Acq On : 19 Jul 2019 03:48
Operator : JC/SP
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 46 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020EC

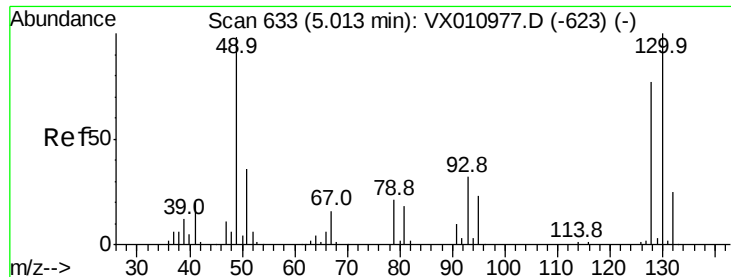
Manual Integrations
APPROVED

MMDadoda
7/19/2019 9:56:17 AM

Quant Time: Jul 19 04:14:43 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071919W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jul 19 03:27:28 2019
Response via : Initial Calibration

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

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



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.02 min Scan# 634

Delta R.T. 0.01 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC020EC

Tot Ion:128 Resp: 38187

Ion Ratio Lower Upper

128 100

49 134.2 0.0 343.5

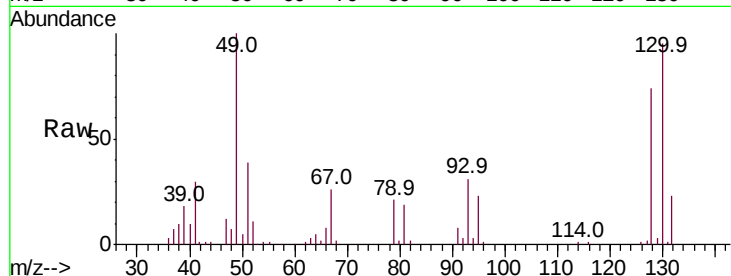
130 128.5 0.0 324.7

Manual Integrations

APPROVED

MMDadoda

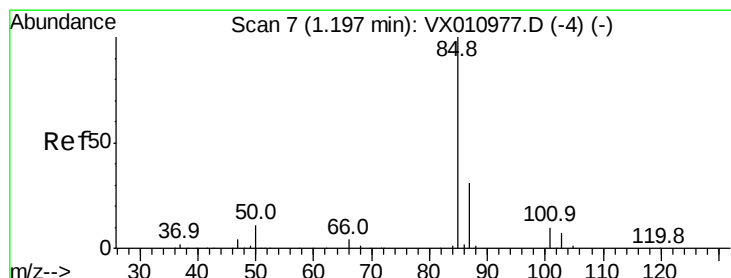
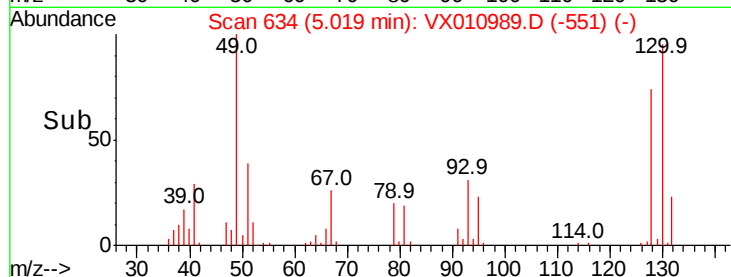
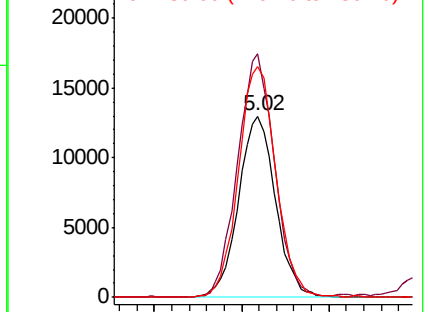
7/19/2019 9:56:17 AM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 20.325 ug/l

RT: 1.20 min Scan# 7

Delta R.T. -0.00 min

Lab File: VX010989.D

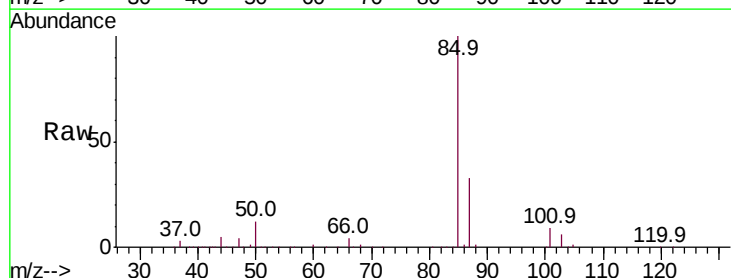
Acq: 19 Jul 2019 03:48

Tgt Ion: 85 Resp: 51314

Ion Ratio Lower Upper

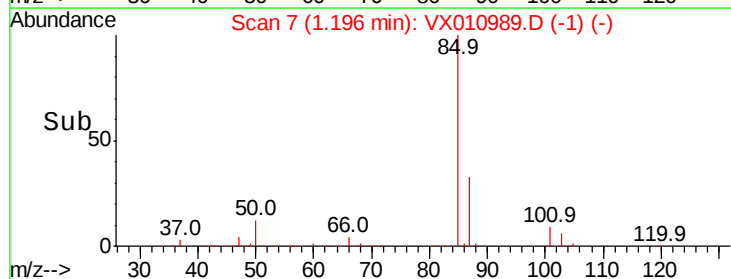
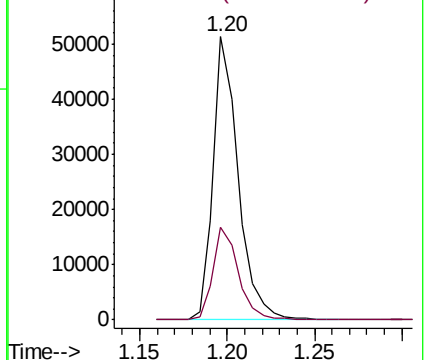
85 100

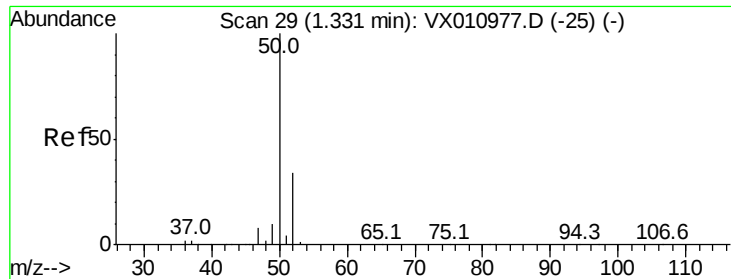
87 32.8 15.4 46.1



Abundance Ion 85.00 (84.70 to 85.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#3

Chloromethane

Concen: 19.739 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC020EC

Tot Ion: 50 Resp: 43822

Ion Ratio Lower Upper

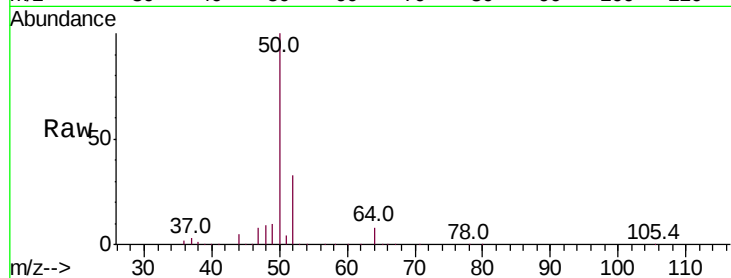
50 100

52 33.3 27.3 40.9

Manual Integrations
APPROVED

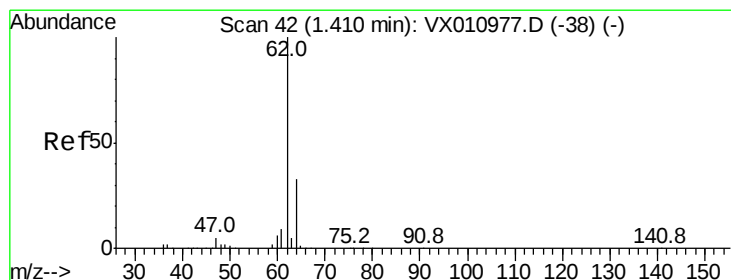
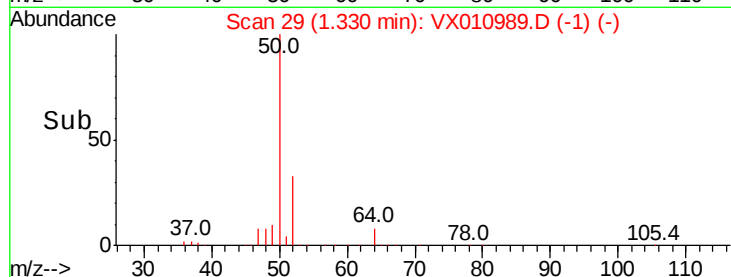
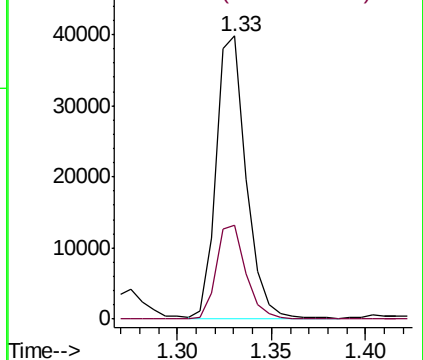
MMDadoda

7/19/2019 9:56:17 AM



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#4

Vinyl Chloride

Concen: 20.670 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX010989.D

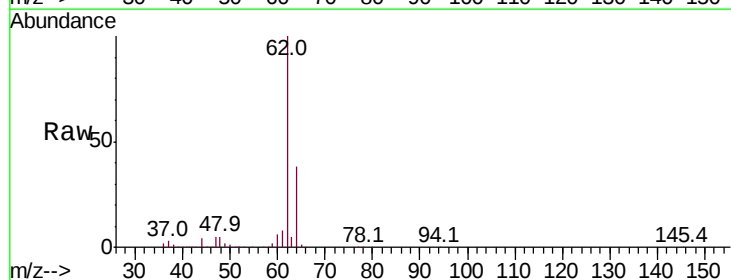
Acq: 19 Jul 2019 03:48

Tgt Ion: 62 Resp: 47853

Ion Ratio Lower Upper

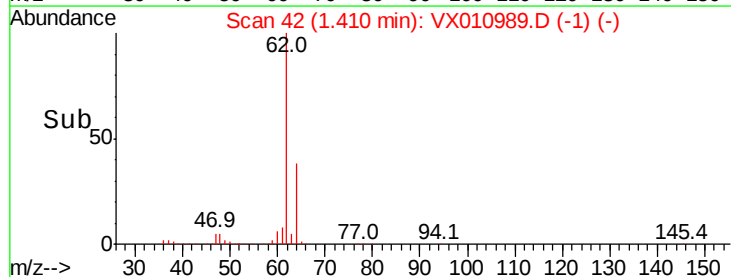
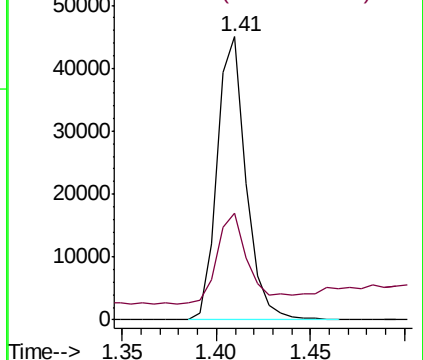
62 100

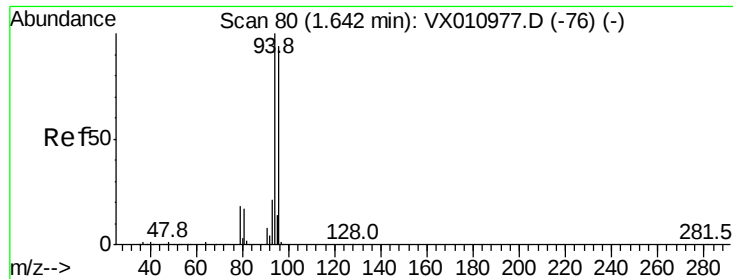
64 31.6 26.8 40.2



Abundance Ion 62.00 (61.70 to 62.70): VX0

Ion 64.00 (63.70 to 64.70): VX0





#5

Bromomethane

Concen: 15.792 ug/l

RT: 1.64 min Scan# 80

Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC020EC

Tot Ion: 94 Resp: 20126

Ion Ratio Lower Upper

94 100

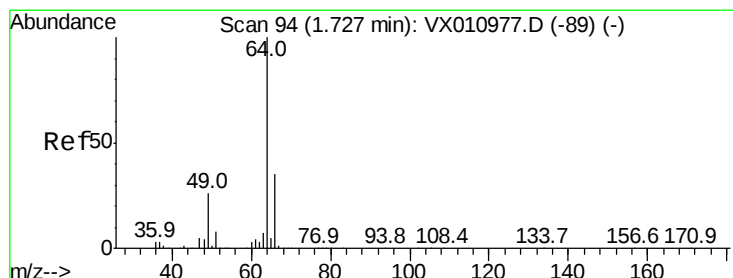
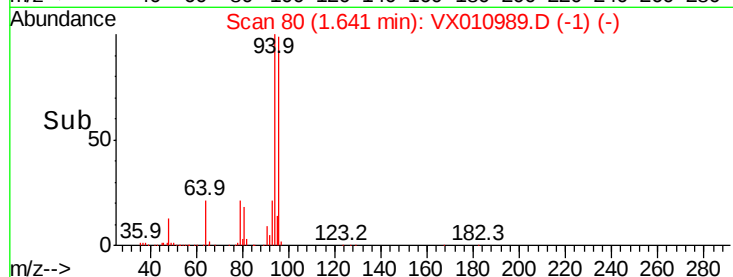
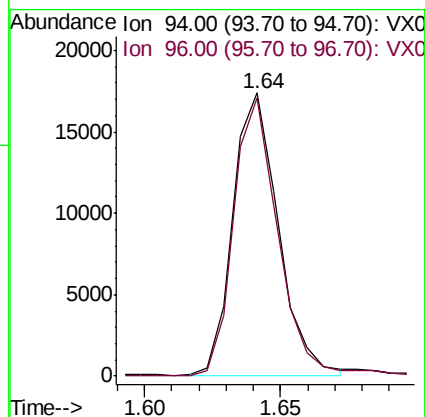
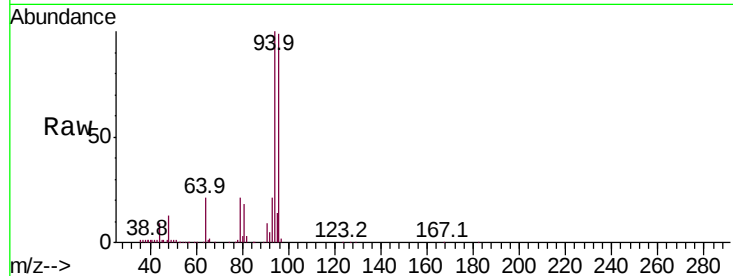
96 98.8 75.4 113.2

Manual Integrations

APPROVED

MMDadoda

7/19/2019 9:56:17 AM



#6

Chloroethane

Concen: 23.035 ug/l

RT: 1.73 min Scan# 94

Delta R.T. -0.00 min

Lab File: VX010989.D

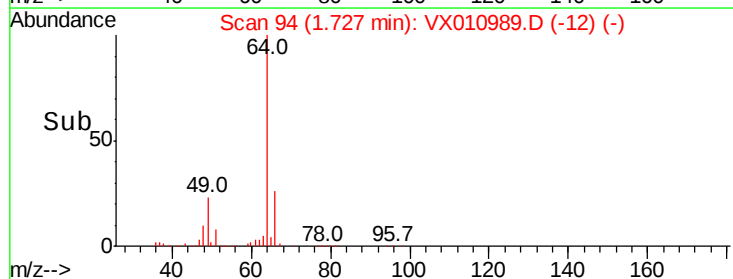
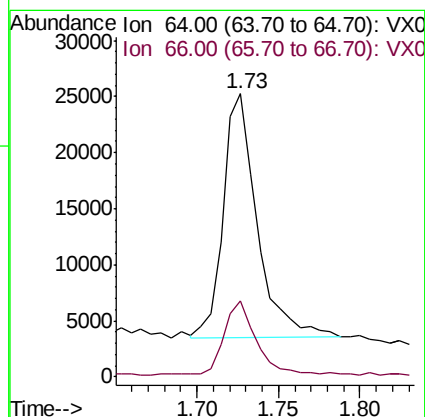
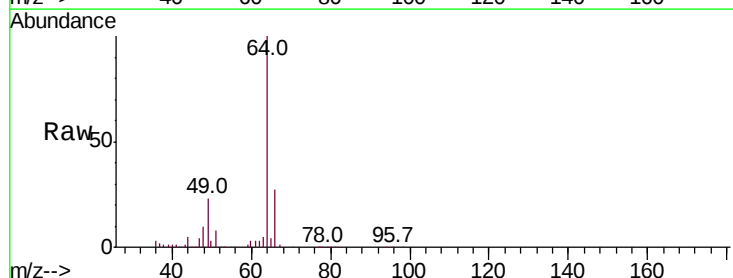
Acq: 19 Jul 2019 03:48

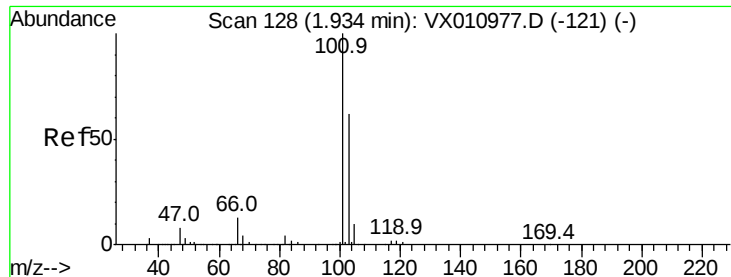
Tgt Ion: 64 Resp: 31550

Ion Ratio Lower Upper

64 100

66 30.1 28.1 42.1





#7

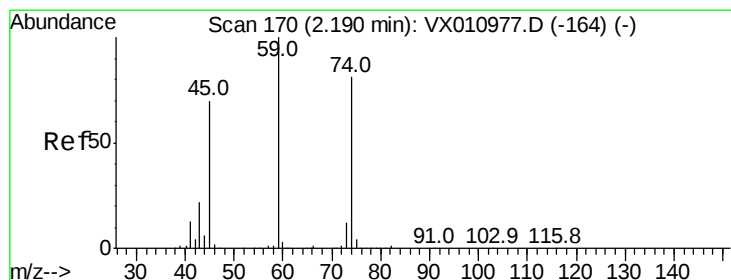
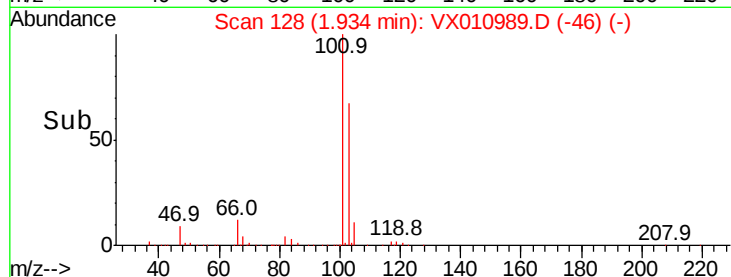
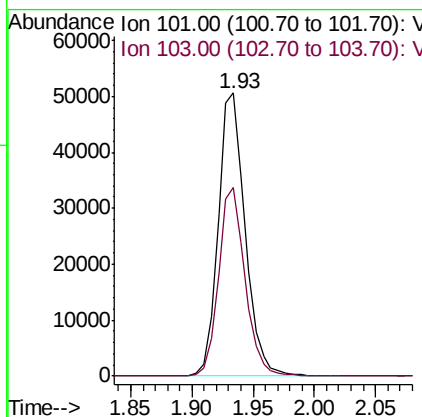
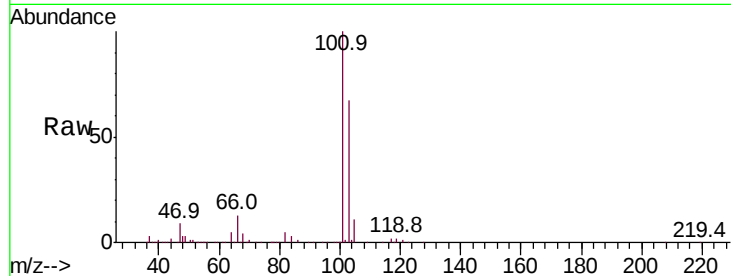
Trichlorofluoromethane
 Concen: 20.105 ug/l
 RT: 1.93 min Scan# 128
 Delta R.T. -0.00 min
 Lab File: VX010989.D
 Acq: 19 Jul 2019 03:48

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.9	49.6	74.4

Manual Integrations
 APPROVED

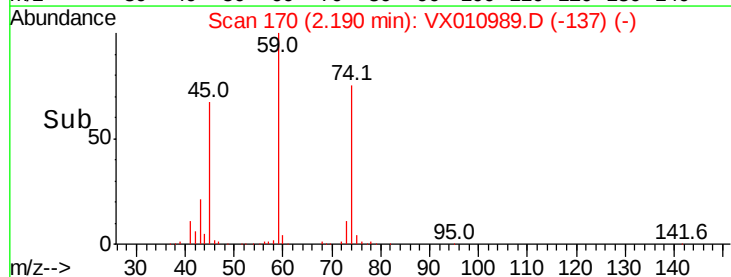
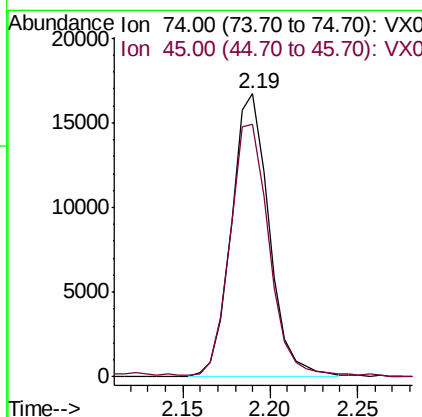
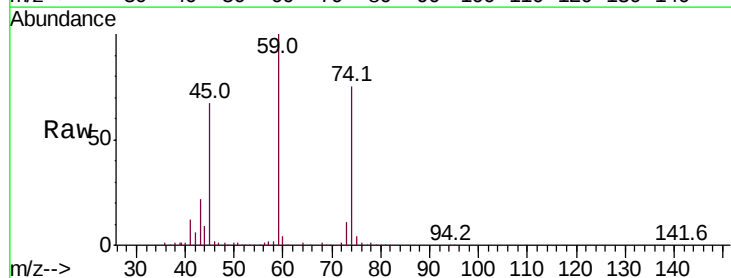
MMDadoda
 7/19/2019 9:56:17 AM

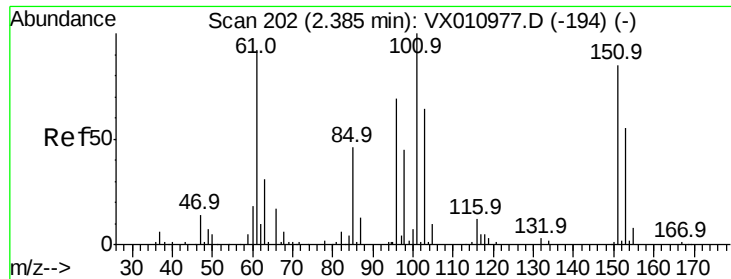


#8

Diethyl Ether
 Concen: 19.892 ug/l
 RT: 2.19 min Scan# 170
 Delta R.T. -0.00 min
 Lab File: VX010989.D
 Acq: 19 Jul 2019 03:48

Tgt Ion	Ratio	Lower	Upper
74	100		
45	92.1	18.3	164.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.805 ug/l

RT: 2.39 min Scan# 202

Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Instrument :

MSVOA_X

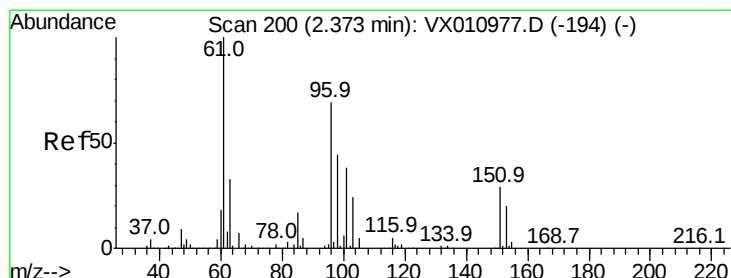
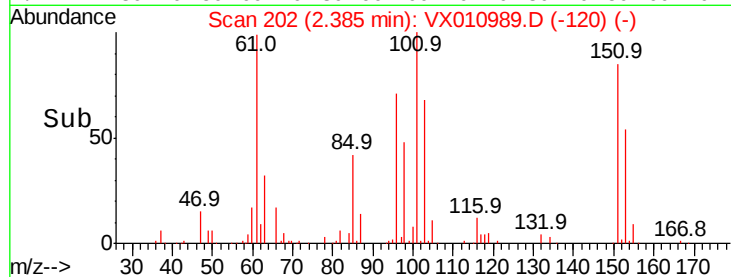
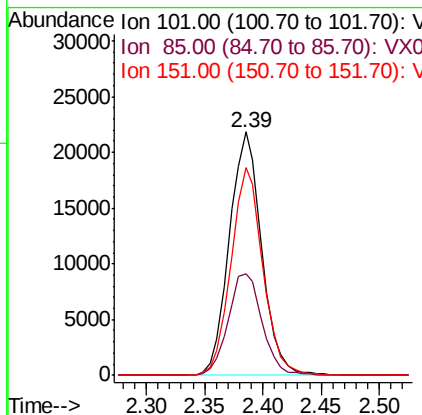
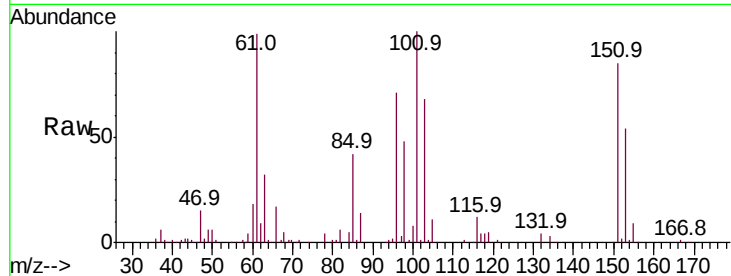
ClientSampleId :

VSTDCCC020EC

Tot Ion:	101	Resp:	42088
Ion Ratio	Lower	Upper	
101	100		
85	43.7	0.0	89.8
151	84.4	0.0	172.2

Manual Integrations
APPROVED

MMDadoda
7/19/2019 9:56:17 AM



#10

1,1-Dichloroethene

Concen: 19.484 ug/l

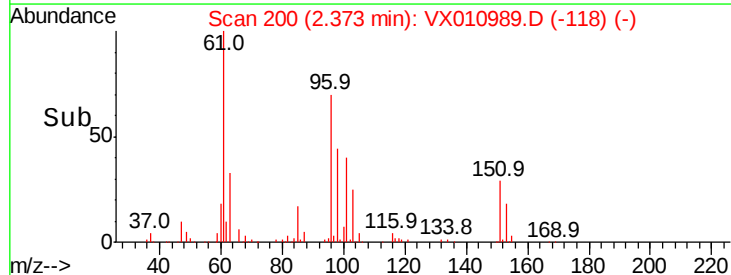
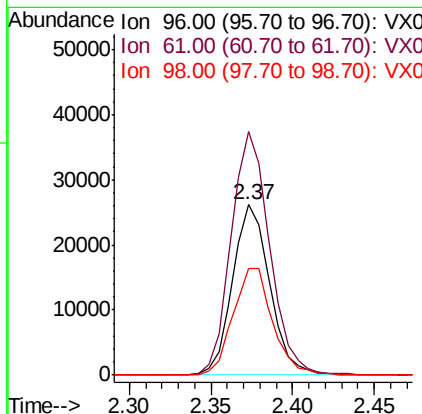
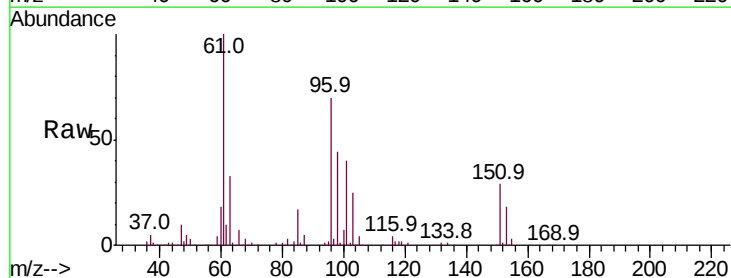
RT: 2.37 min Scan# 200

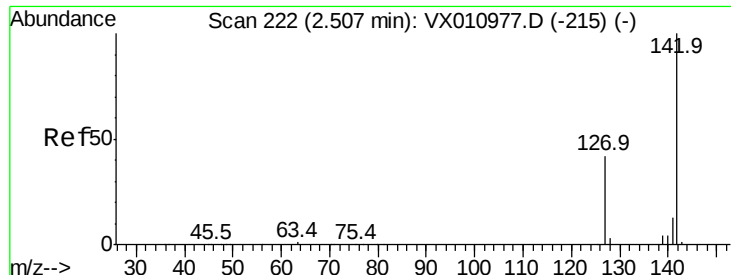
Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Tgt Ion:	96	Resp:	41612
Ion Ratio	Lower	Upper	
96	100		
61	142.6	115.9	173.9
98	62.6	50.6	75.8





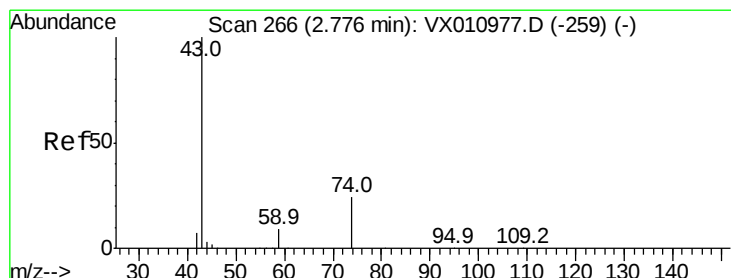
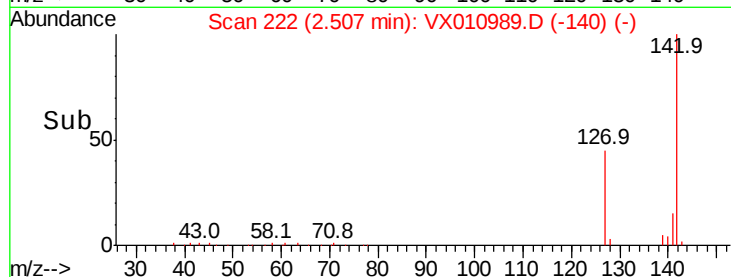
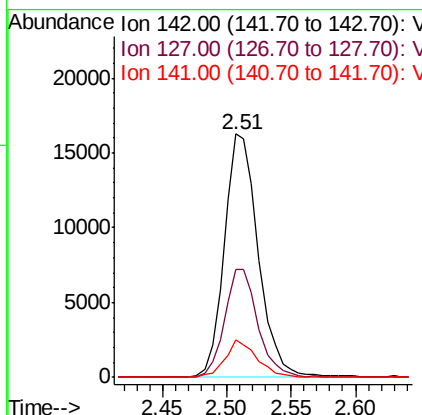
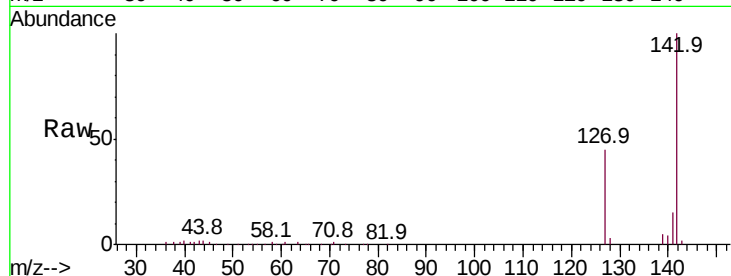
#11
Methyl Iodide
Concen: 10.451 ug/l
RT: 2.51 min Scan# 222
Delta R.T. -0.00 min
Lab File: VX010989.D
Acq: 19 Jul 2019 03:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
142	100		
127	44.7	20.7	62.1
141	15.2	6.7	20.0

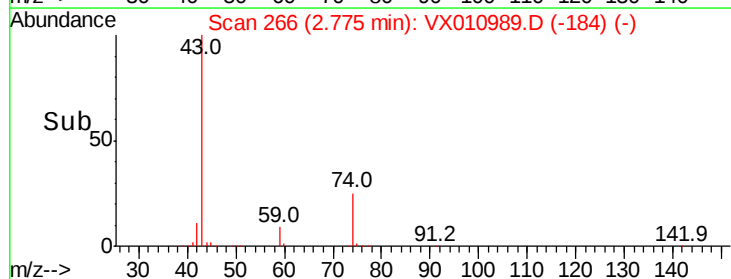
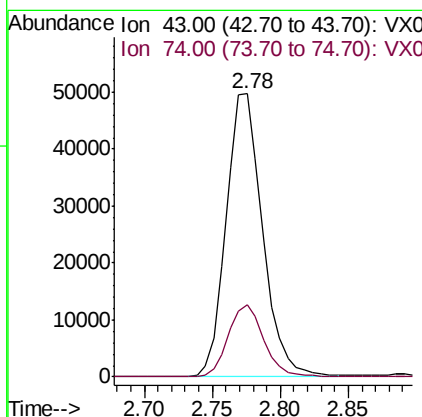
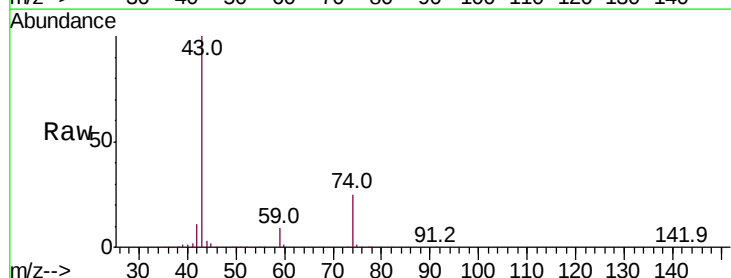
Manual Integrations
APPROVED

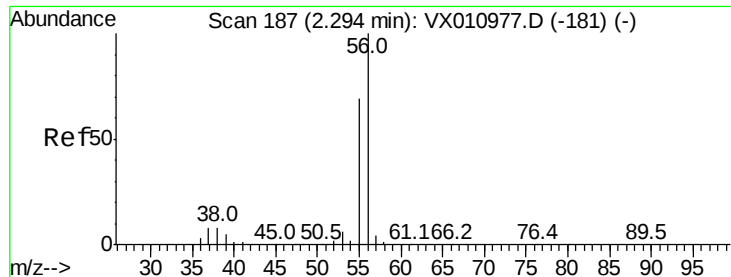
MMDadoda
7/19/2019 9:56:17 AM



#12
Methyl Acetate
Concen: 30.669 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.00 min
Lab File: VX010989.D
Acq: 19 Jul 2019 03:48

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.3	19.8	29.6





#13

Acrolein

Concen: 63.137 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC020EC

Tot Ion: 56 Resp: 22707

Ion Ratio Lower Upper

56 100

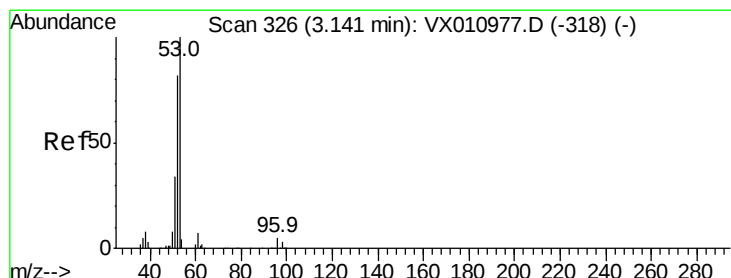
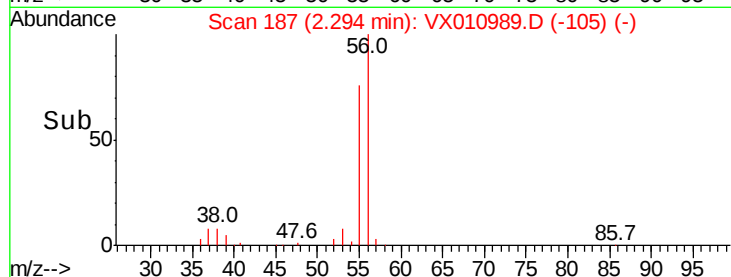
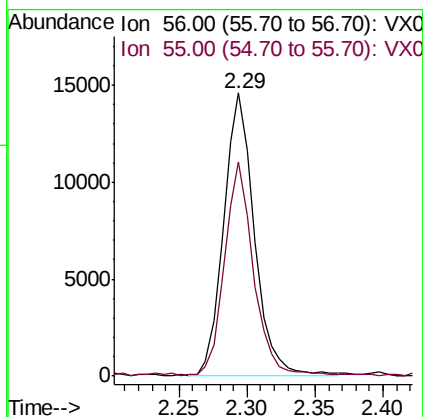
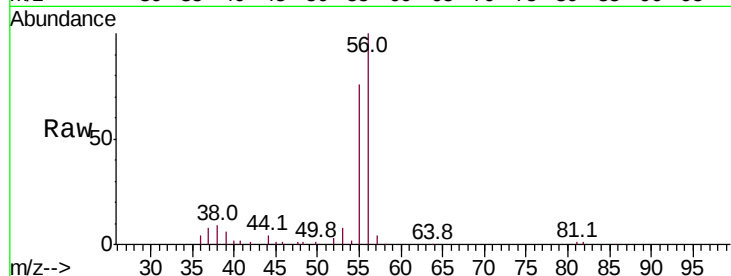
55 73.1 56.1 84.1

Manual Integrations

APPROVED

MMDadoda

7/19/2019 9:56:17 AM



#14

Acrylonitrile

Concen: 101.901 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

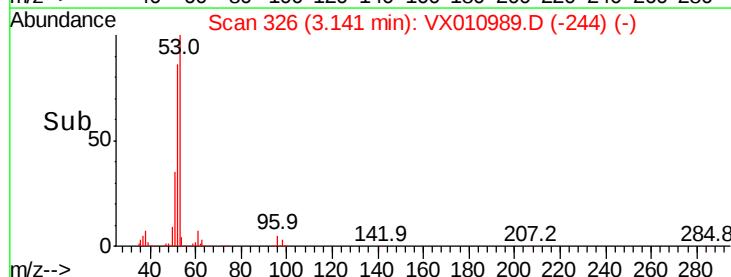
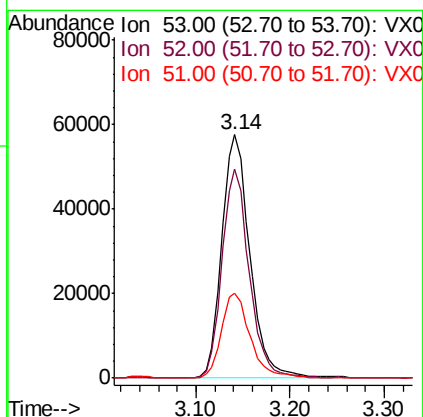
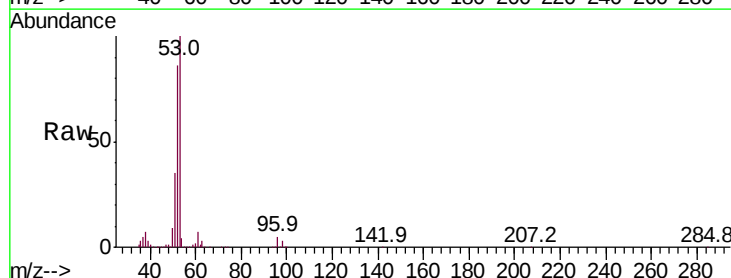
Tgt Ion: 53 Resp: 119628

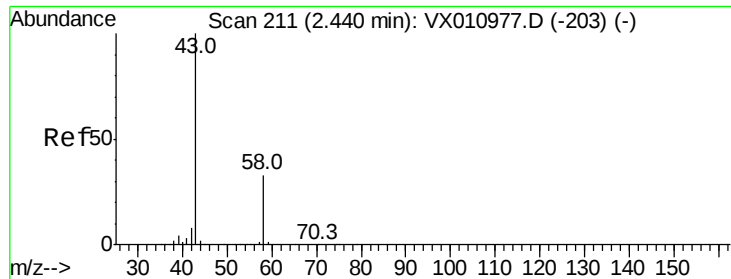
Ion Ratio Lower Upper

53 100

52 82.9 41.1 123.4

51 35.5 17.8 53.3





#15

Acetone

Concen: 103.051 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC020EC

Tot Ion: 58 Resp: 33688

Ion Ratio Lower Upper

58 100

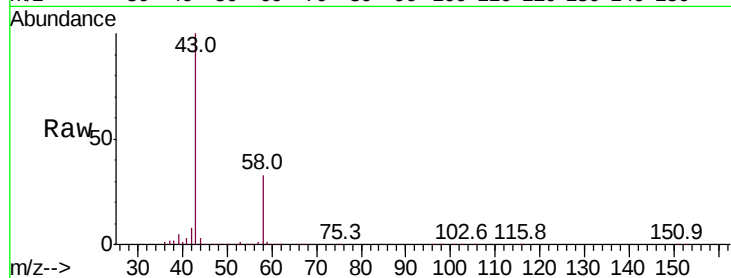
43 300.0 243.8 365.6

Manual Integrations

APPROVED

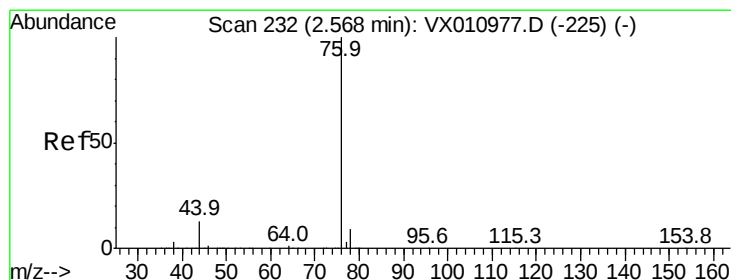
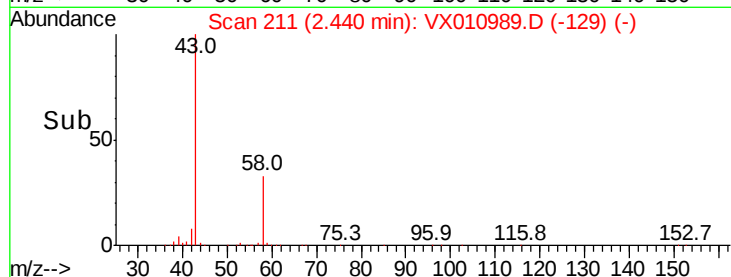
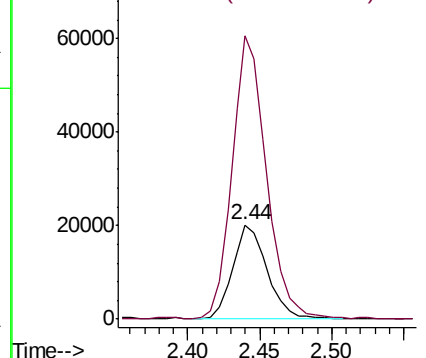
MMDadoda

7/19/2019 9:56:17 AM



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#16

Carbon Disulfide

Concen: 20.007 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX010989.D

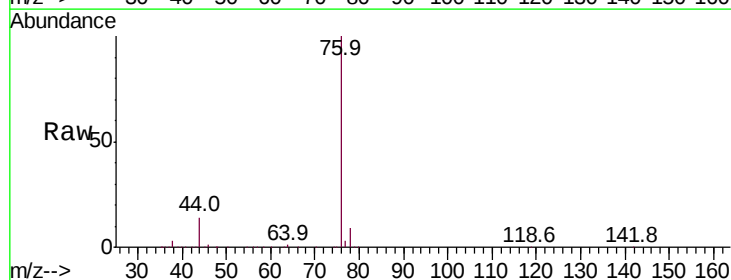
Acq: 19 Jul 2019 03:48

Tgt Ion: 76 Resp: 109792

Ion Ratio Lower Upper

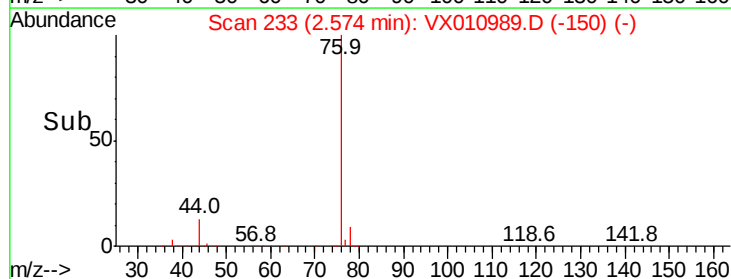
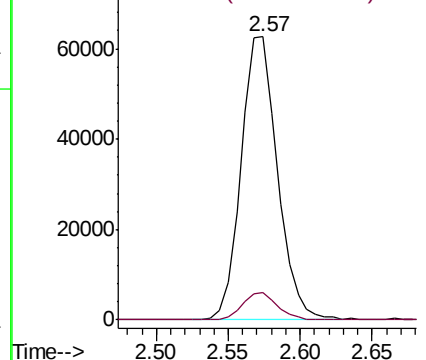
76 100

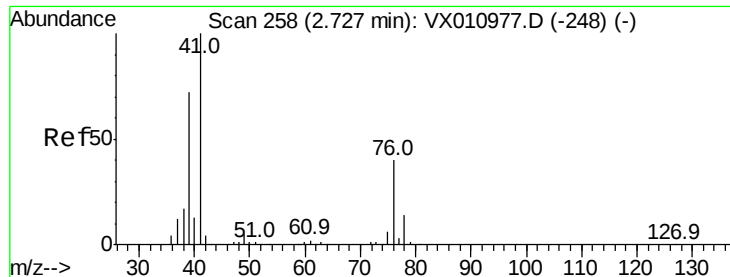
78 9.5 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0





#17

Allvl chloride

Concen: 19.389 ug/l

RT: 2.73 min Scan# 258

Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Instrument :

MSVOA_X

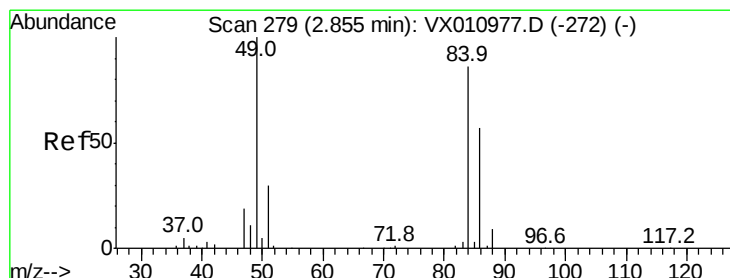
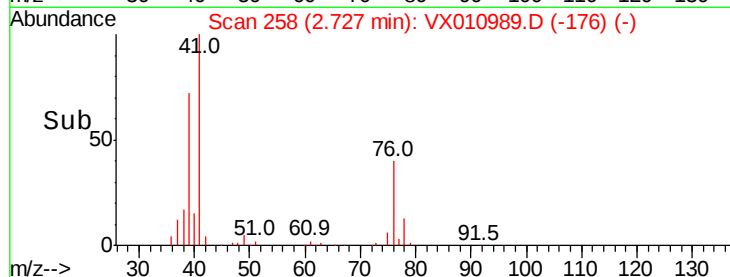
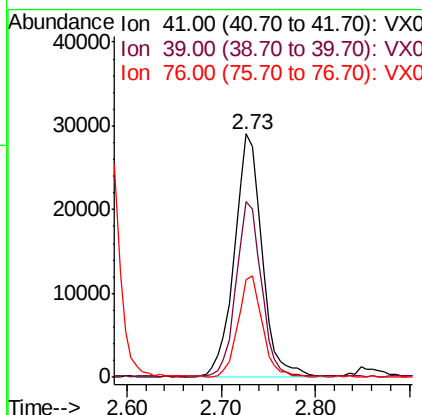
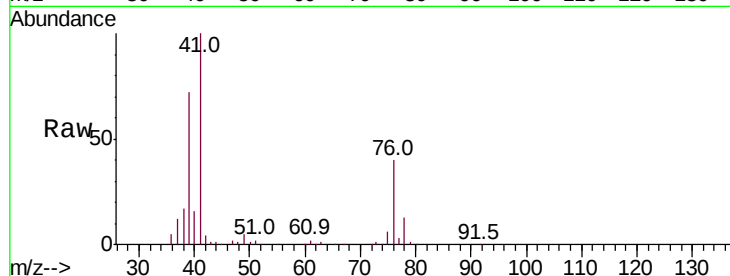
ClientSampleId :

VSTDCCC020EC

Tot Ion:	41	Resp:	59946
Ion	Ratio	Lower	Upper
41	100		
39	72.0	36.1	108.3
76	39.5	20.2	60.5

Manual Integrations
APPROVED

MMDadoda
7/19/2019 9:56:17 AM



#18

Methylene Chloride

Concen: 20.158 ug/l

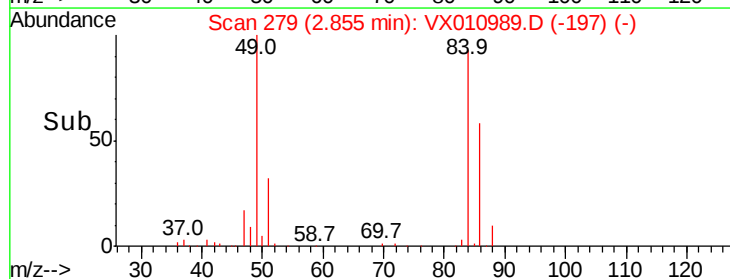
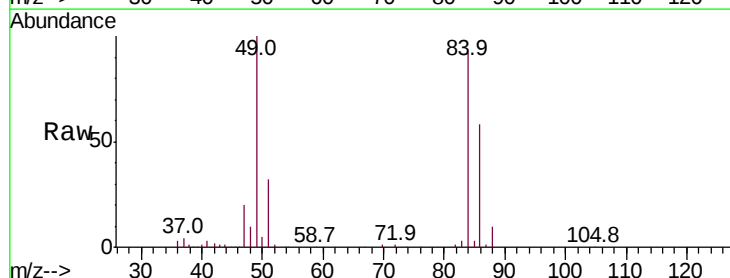
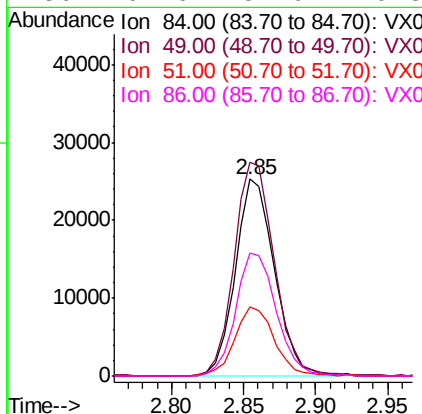
RT: 2.85 min Scan# 279

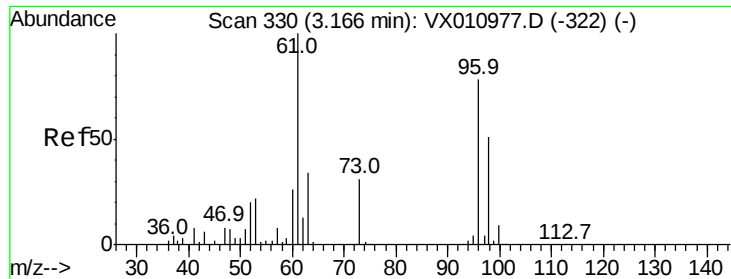
Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Tgt Ion:	84	Resp:	47936
Ion	Ratio	Lower	Upper
84	100		
49	108.4	93.2	139.8
51	35.2	28.6	42.8
86	62.6	52.9	79.3





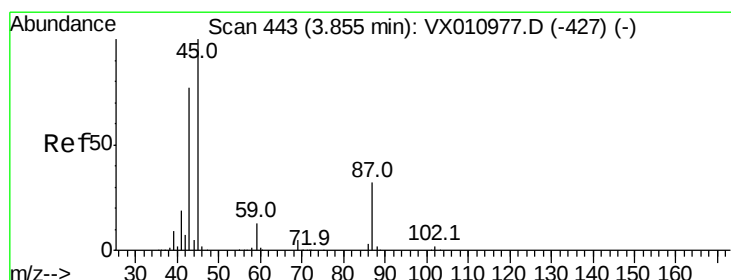
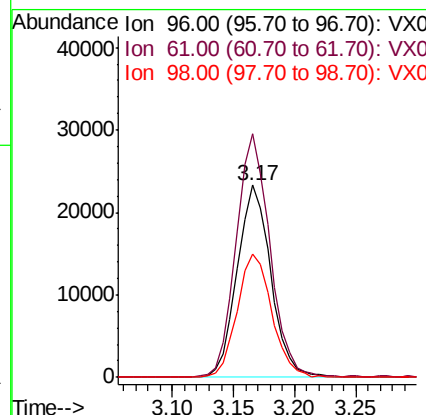
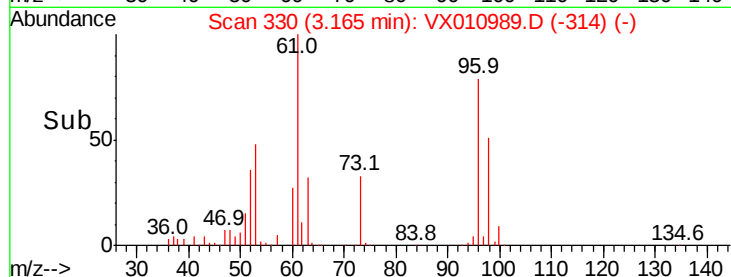
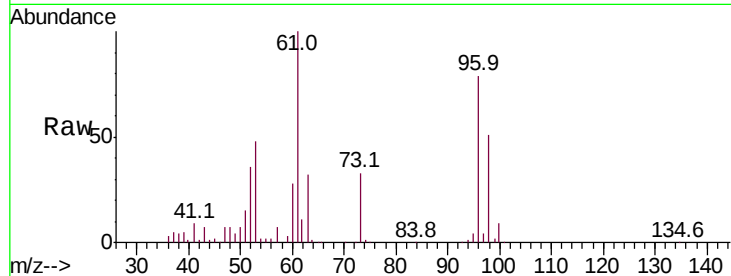
#19
trans-1,2-Dichloroethene
Concen: 19.735 ug/l
RT: 3.17 min Scan# 330
Delta R.T. -0.00 min
Lab File: VX010989.D
Acq: 19 Jul 2019 03:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
96	100		
61	126.9	102.2	153.4
98	64.2	52.2	78.2

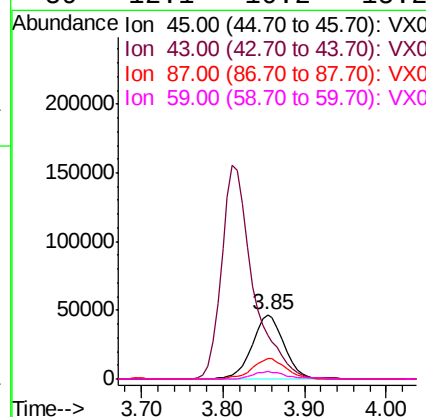
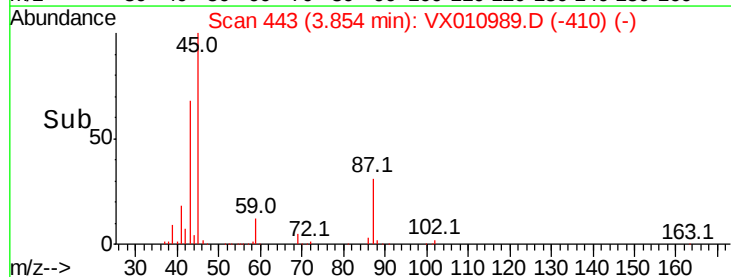
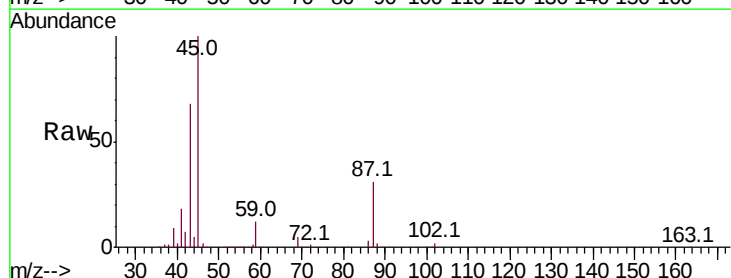
Manual Integrations
APPROVED

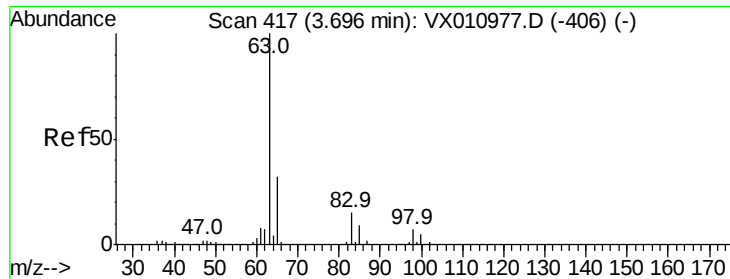
MMDadoda
7/19/2019 9:56:17 AM



#20
Diisopropyl ether
Concen: 19.582 ug/l
RT: 3.85 min Scan# 443
Delta R.T. -0.00 min
Lab File: VX010989.D
Acq: 19 Jul 2019 03:48

Tgt Ion	Ratio	Lower	Upper
45	100		
43	68.1	61.5	92.3
87	31.3	25.4	38.2
59	12.1	10.2	15.2





#21

1,1-Dichloroethane

Concen: 19.854 ug/l

RT: 3.70 min Scan# 417

Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Instrument :

MSVOA_X

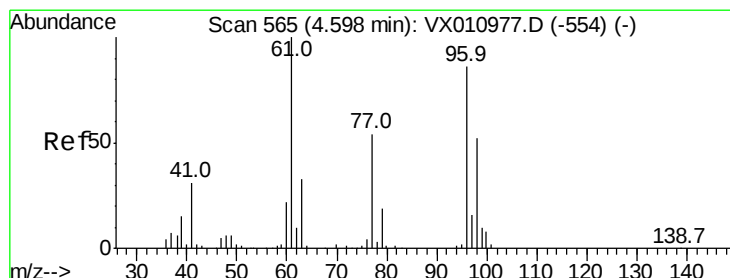
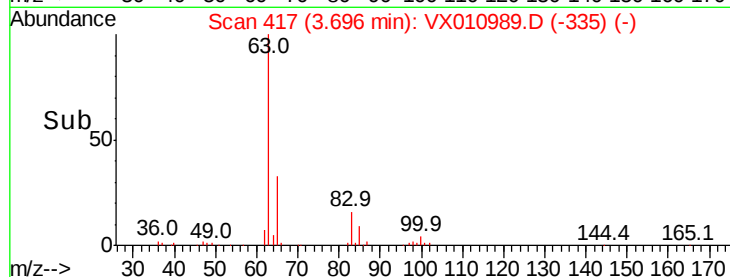
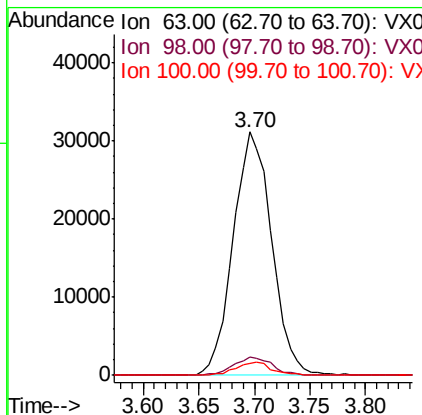
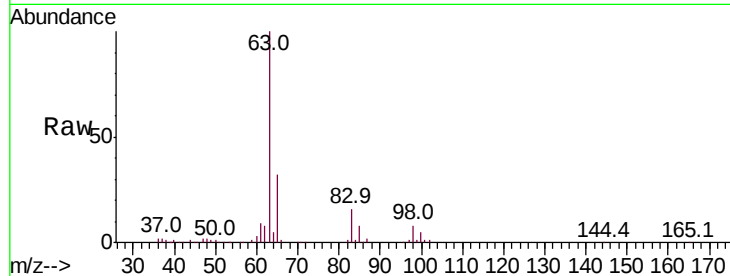
ClientSampleId :

VSTDCCC020EC

Tot Ion:	63	Resp:	74573
Ion	Ratio	Lower	Upper
63	100		
98	7.7	3.8	11.2
100	4.7	2.5	7.4

Manual Integrations
APPROVED

MMDadoda
7/19/2019 9:56:17 AM



#22

cis-1,2-Dichloroethene

Concen: 19.742 ug/l

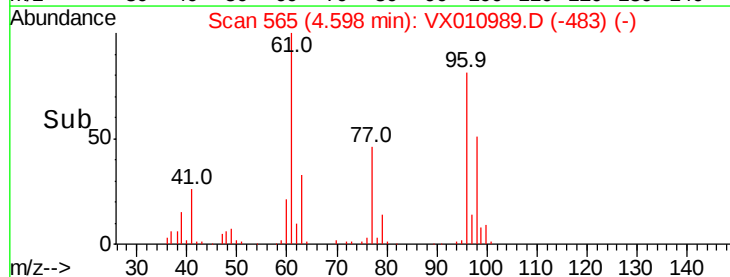
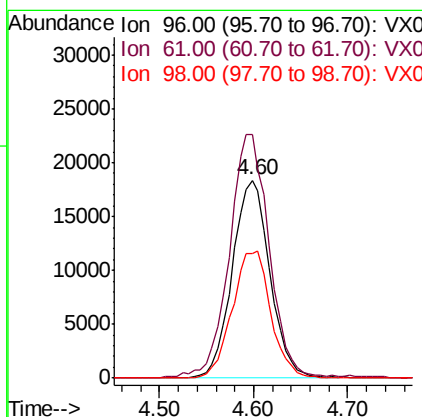
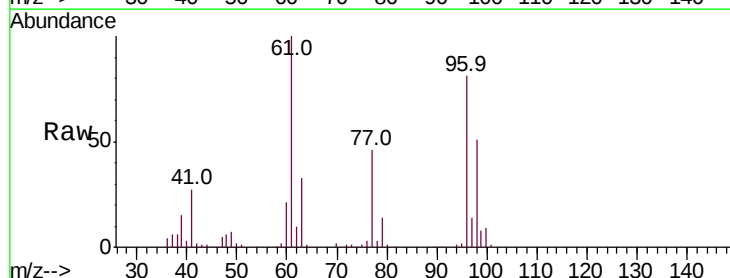
RT: 4.60 min Scan# 565

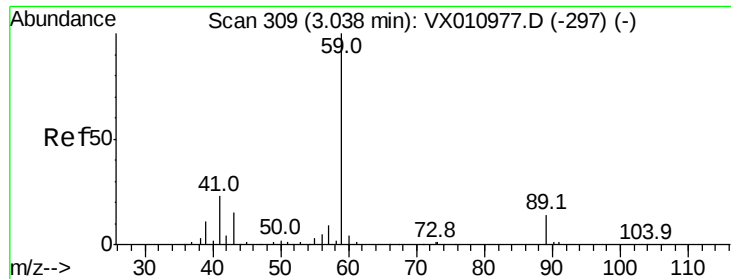
Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Tgt Ion:	96	Resp:	51225
Ion	Ratio	Lower	Upper
96	100		
61	129.8	102.9	154.3
98	65.7	50.9	76.3





#23

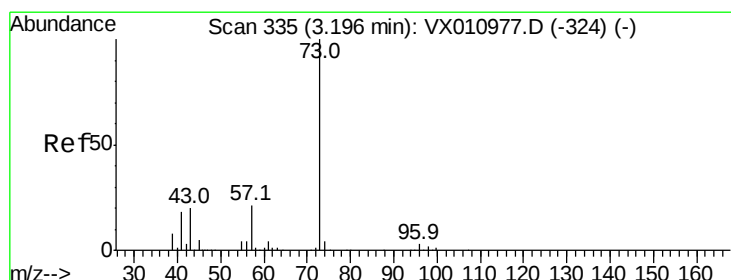
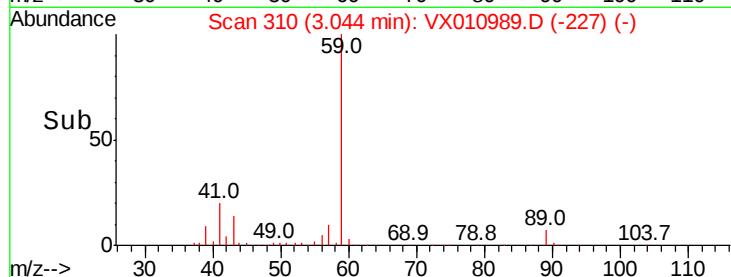
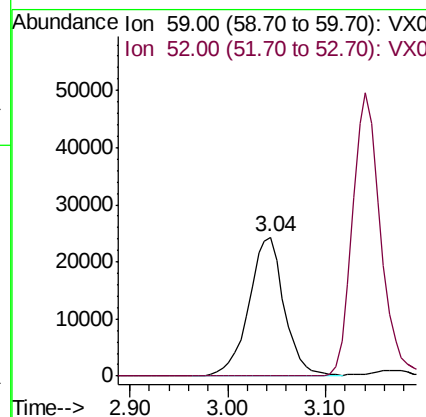
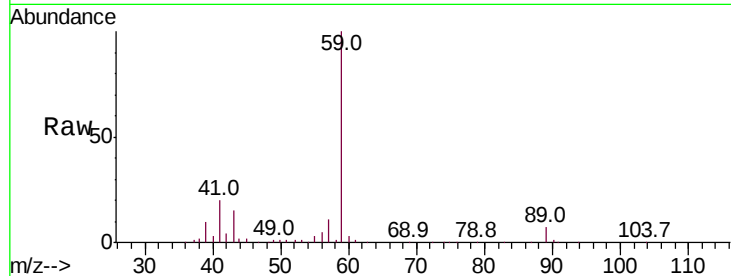
tert-Butyl Alcohol
 Concen: 99.523 ug/l
 RT: 3.04 min Scan# 310
 Delta R.T. 0.01 min
 Lab File: VX010989.D
 Acq: 19 Jul 2019 03:48

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Tot Ion: 59 Resp: 61002
 Ion Ratio Lower Upper
 59 100
 52 0.3 0.2 0.4

Manual Integrations
 APPROVED

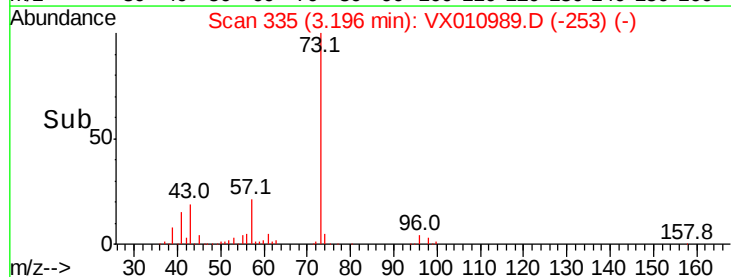
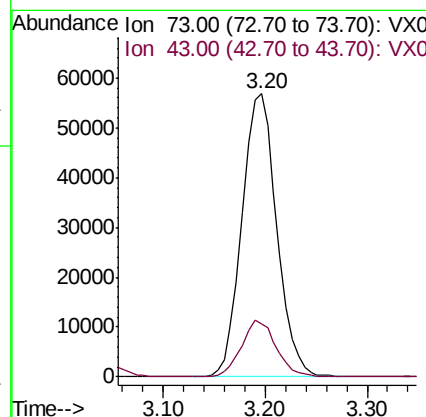
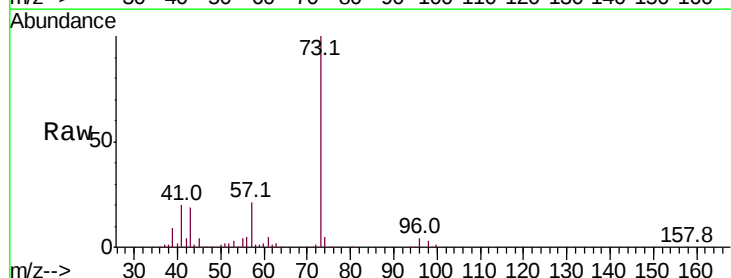
MMDadoda
 7/19/2019 9:56:17 AM

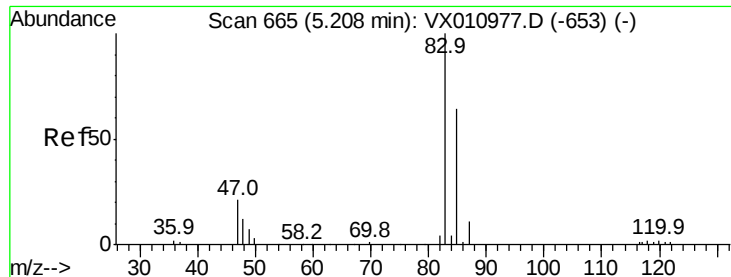


#24

Methyl tert-Butyl Ether
 Concen: 19.707 ug/l
 RT: 3.20 min Scan# 335
 Delta R.T. -0.00 min
 Lab File: VX010989.D
 Acq: 19 Jul 2019 03:48

Tgt Ion: 73 Resp: 135110
 Ion Ratio Lower Upper
 73 100
 43 19.5 15.8 23.6





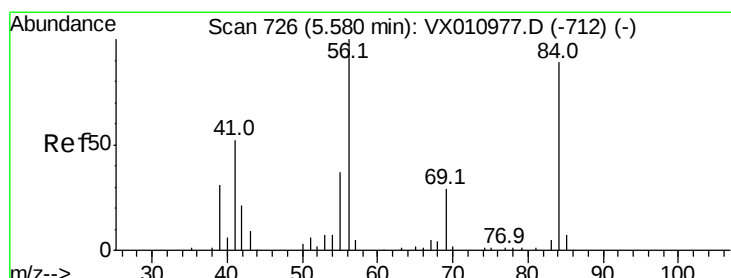
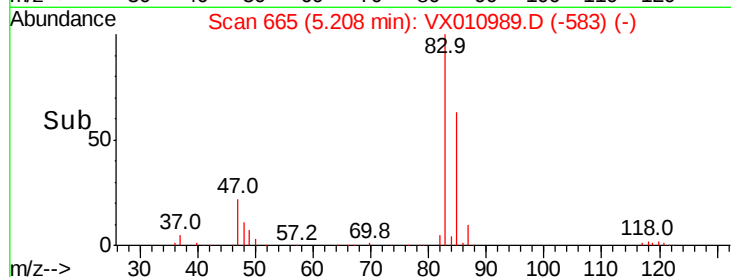
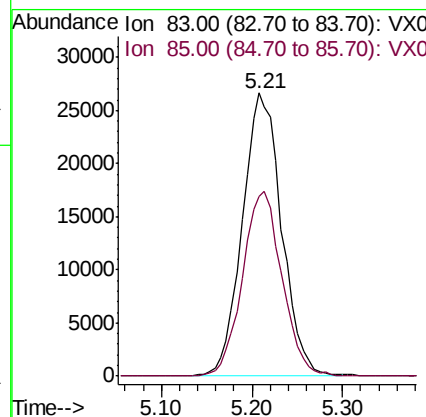
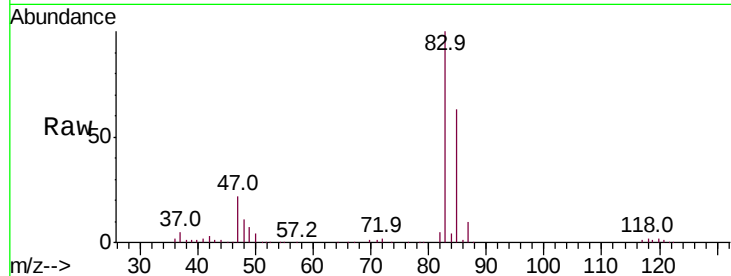
#25
Chloroform
Concen: 19.358 ug/l
RT: 5.21 min Scan# 665
Delta R.T. -0.00 min
Lab File: VX010989.D
Acq: 19 Jul 2019 03:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020EC

Tot Ion: 83 Resp: 79637
Ion Ratio Lower Upper
83 100
85 63.3 50.9 76.3

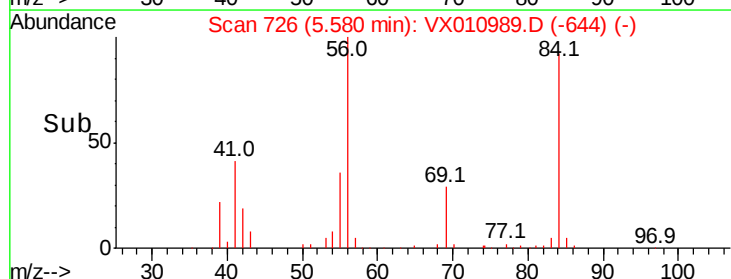
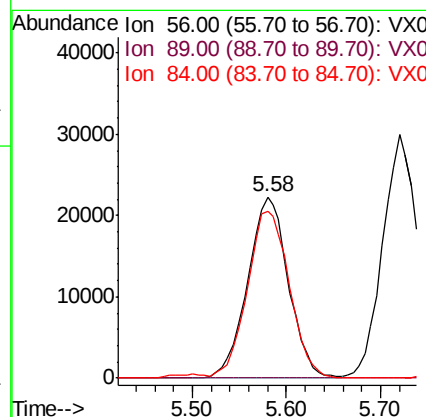
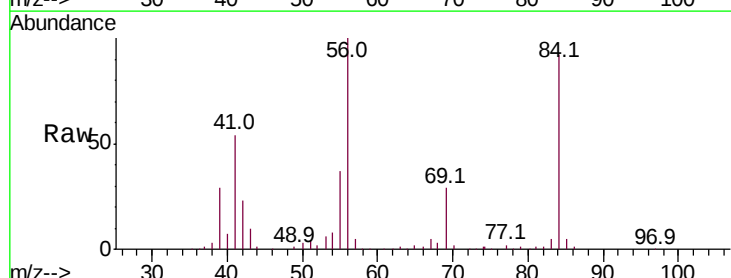
Manual Integrations
APPROVED

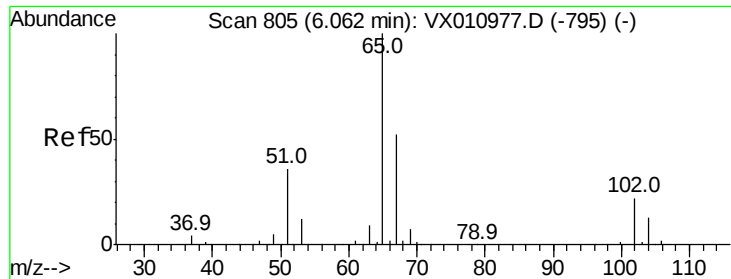
MMDadoda
7/19/2019 9:56:17 AM



#26
Cyclohexane
Concen: 19.549 ug/l
RT: 5.58 min Scan# 726
Delta R.T. -0.00 min
Lab File: VX010989.D
Acq: 19 Jul 2019 03:48

Tgt Ion: 56 Resp: 67193
Ion Ratio Lower Upper
56 100
89 0.0 0.0 0.0
84 95.2 73.0 109.4





#27

1,2-Dichloroethane-d4

Concen: 28.959 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC020EC

Tot Ion: 65 Resp: 74972

Ion Ratio Lower Upper

65 100

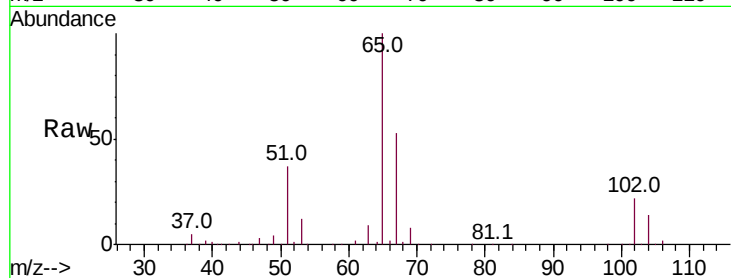
67 53.7 41.7 62.5

Manual Integrations

APPROVED

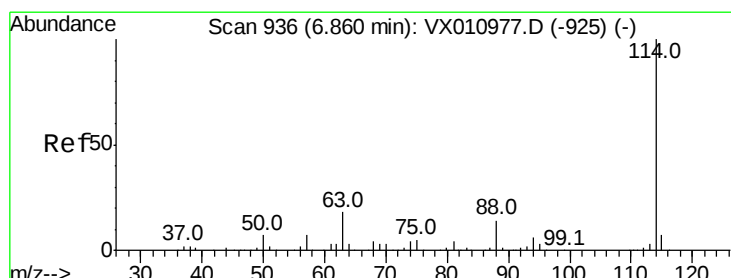
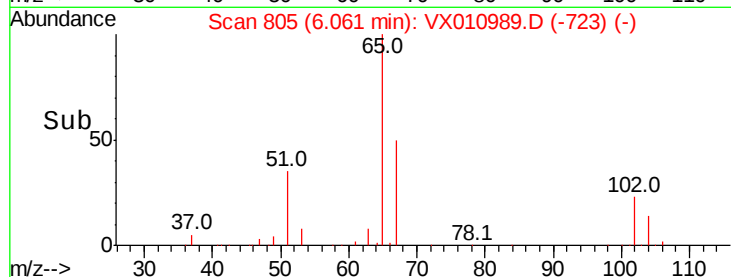
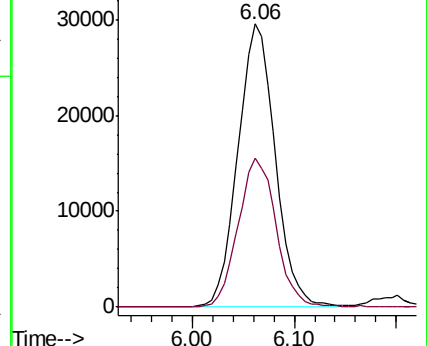
MMDadoda

7/19/2019 9:56:17 AM



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

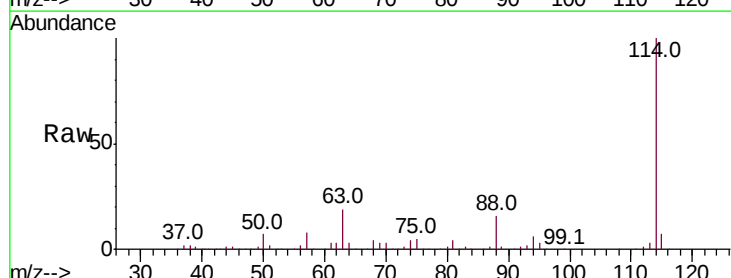
Tgt Ion: 114 Resp: 207848

Ion Ratio Lower Upper

114 100

63 18.5 14.6 22.0

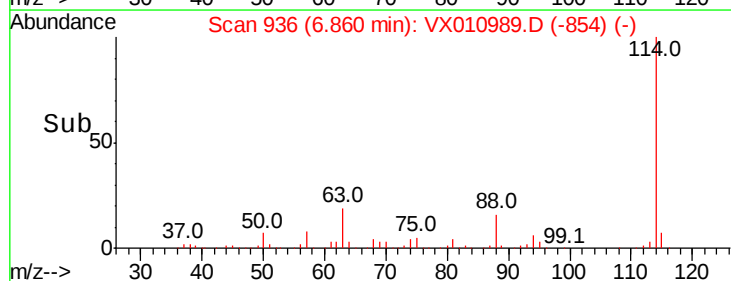
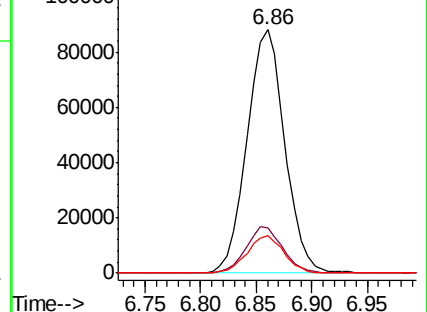
88 15.3 11.8 17.8

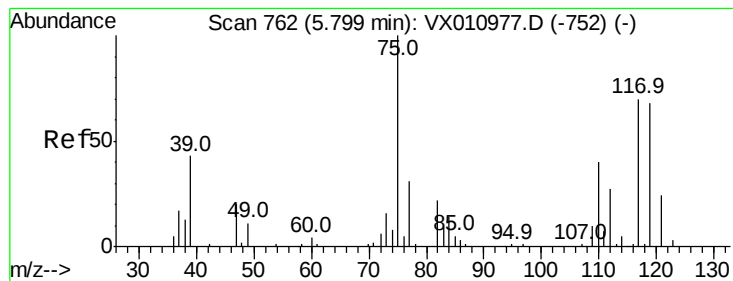


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0





#29

1,1-Dichloropropene

Concen: 19.889 ug/l

RT: 5.80 min Scan# 762

Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Instrument :

MSVOA_X

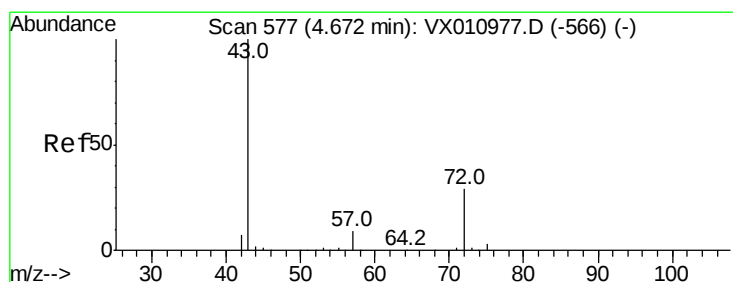
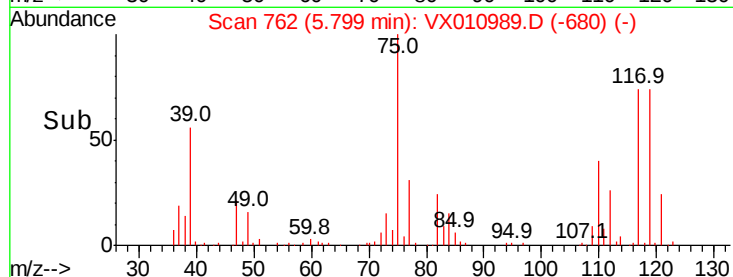
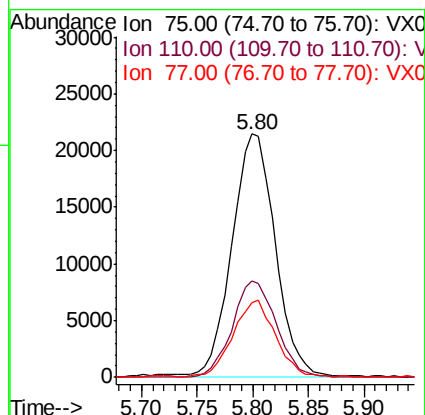
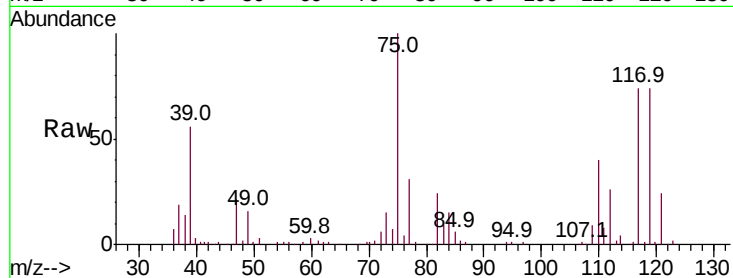
ClientSampleId :

VSTDCCC020EC

Tot Ion:	75	Resp:	58134
Ion Ratio	Lower	Upper	
75	100		
110	40.0	0.0	79.8
77	31.2	0.0	62.2

Manual Integrations
APPROVED

MMDadoda
7/19/2019 9:56:17 AM



#30

2-Butanone

Concen: 101.636 ug/l

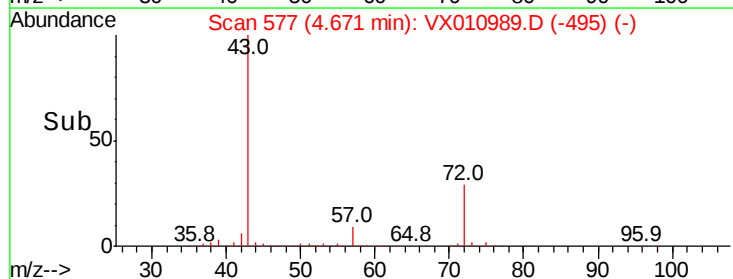
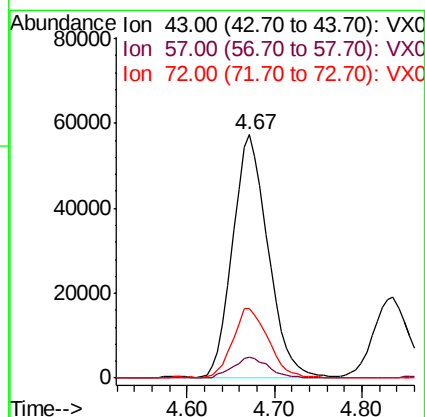
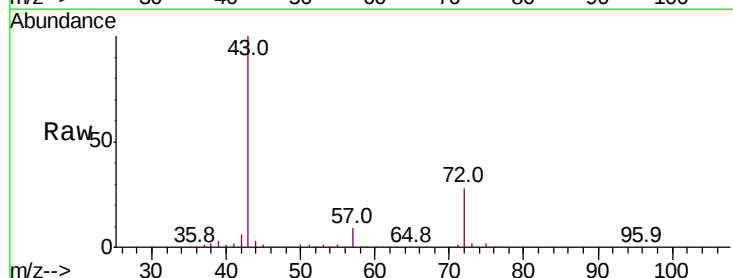
RT: 4.67 min Scan# 577

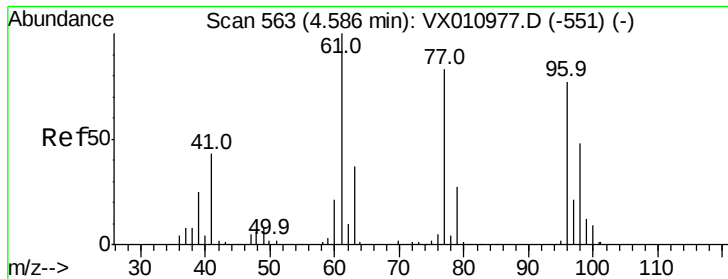
Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Tgt Ion:	43	Resp:	160360
Ion Ratio	Lower	Upper	
43	100		
57	8.8	6.8	10.2
72	29.1	23.2	34.8





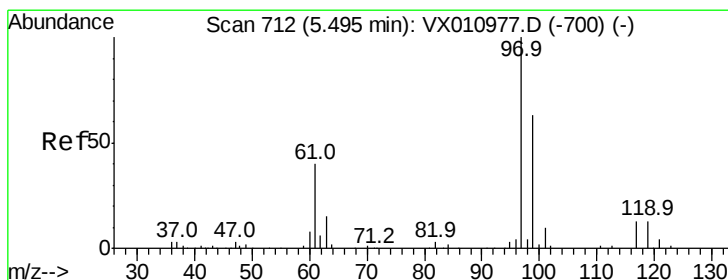
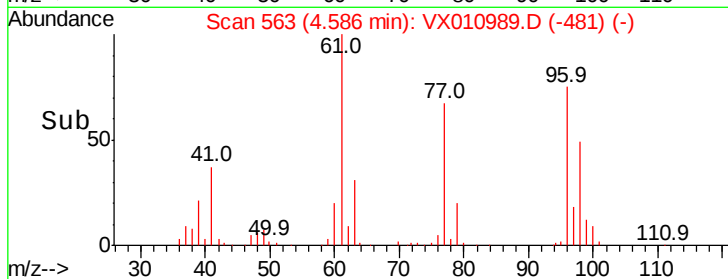
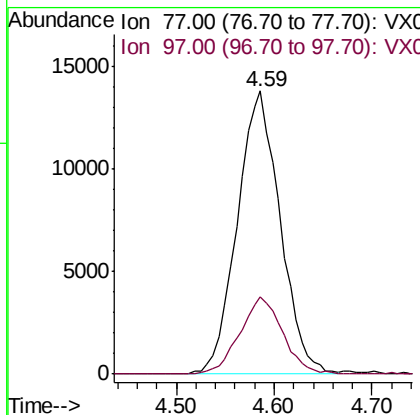
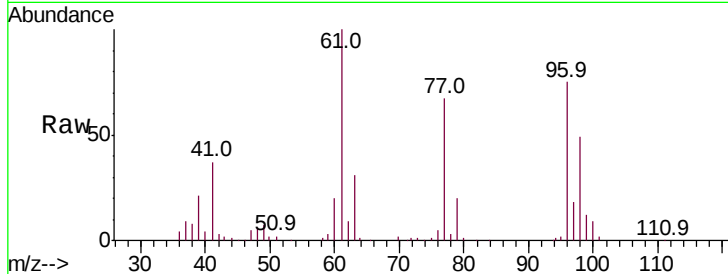
#31
 2,2-Dichloropropane
 Concen: 16.452 ug/l
 RT: 4.59 min Scan# 563
 Delta R.T. -0.00 min
 Lab File: VX010989.D
 Acq: 19 Jul 2019 03:48

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Tot Ion: 77 Resp: 41977
 Ion Ratio Lower Upper
 77 100
 97 27.1 20.9 31.3

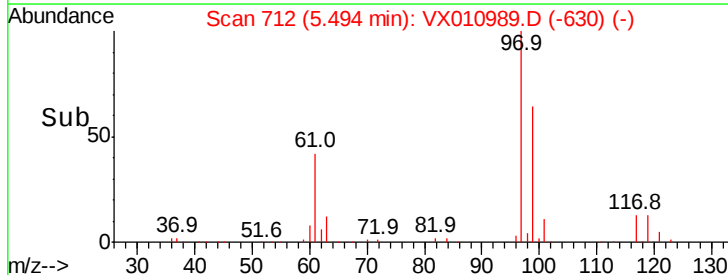
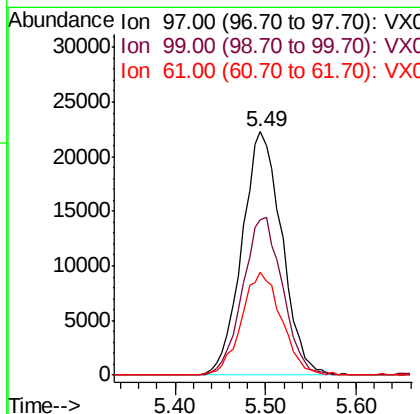
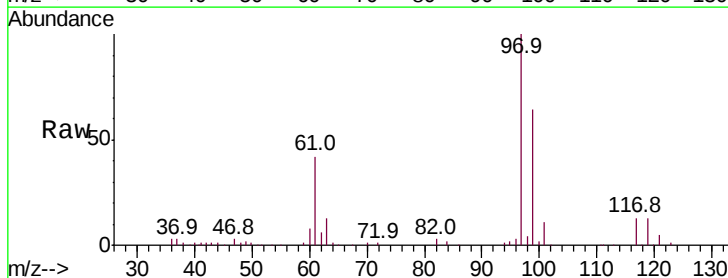
Manual Integrations
 APPROVED

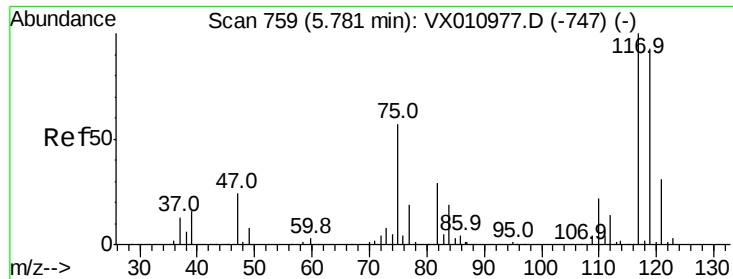
MMDadoda
 7/19/2019 9:56:17 AM



#32
 1,1,1-Trichloroethane
 Concen: 19.237 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. -0.00 min
 Lab File: VX010989.D
 Acq: 19 Jul 2019 03:48

Tgt Ion: 97 Resp: 67809
 Ion Ratio Lower Upper
 97 100
 99 64.6 51.0 76.6
 61 42.1 34.3 51.5





#33

Carbon Tetrachloride

Concen: 19.276 ug/l

RT: 5.78 min Scan# 759

Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Instrument :

MSVOA_X

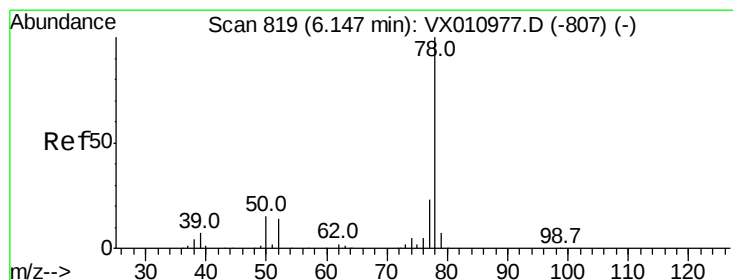
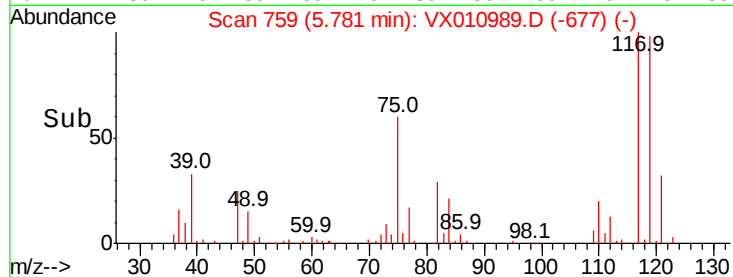
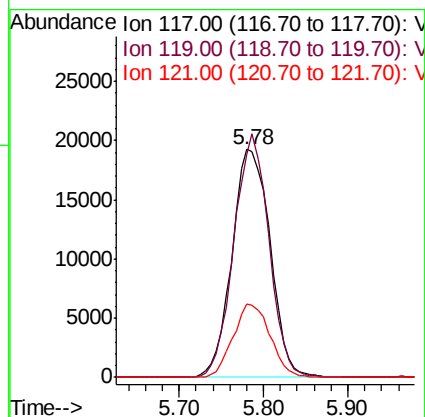
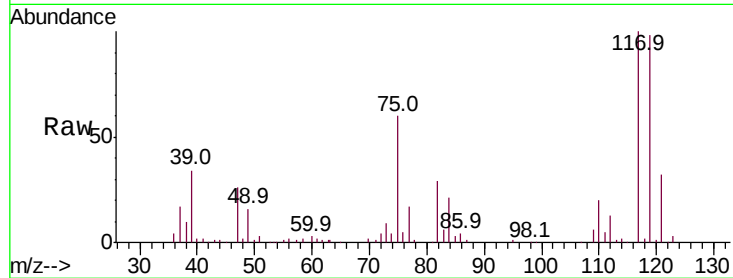
ClientSampleId :

VSTDCCC020EC

Tot Ion:	117	Resp:	59076
Ion	Ratio	Lower	Upper
117	100		
119	97.9	74.3	111.5
121	32.4	24.9	37.3

Manual Integrations
APPROVED

MMDadoda
7/19/2019 9:56:17 AM



#34

Benzene

Concen: 20.507 ug/l

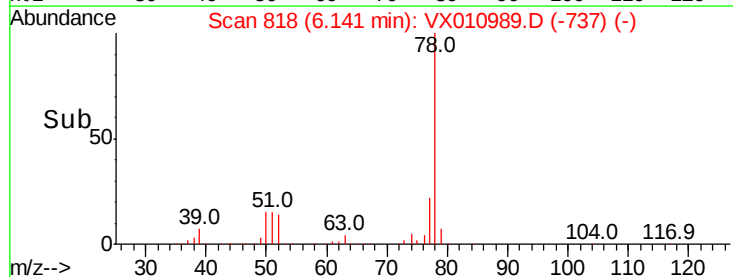
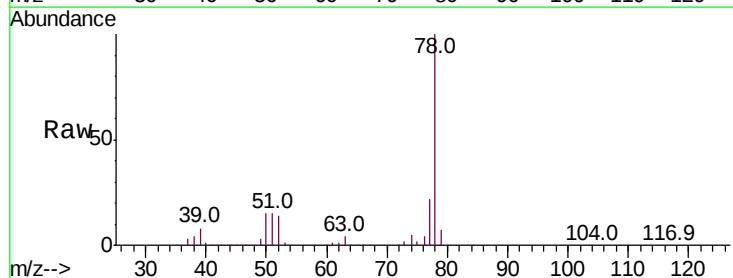
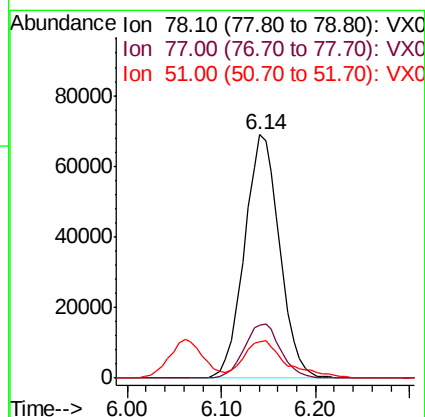
RT: 6.14 min Scan# 818

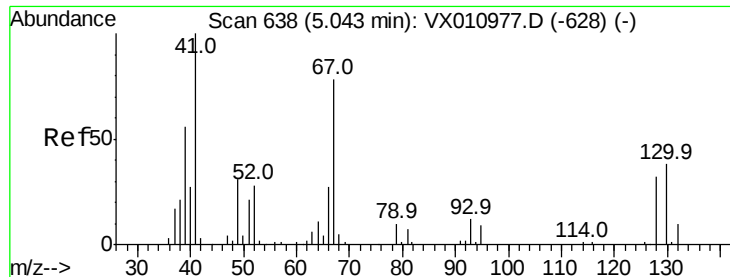
Delta R.T. -0.01 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Tgt Ion:	78	Resp:	179810
Ion	Ratio	Lower	Upper
78	100		
77	22.0	18.2	27.4
51	14.2	11.4	17.2





#35

Methacrylonitrile

Concen: 20.120 ug/l

RT: 5.04 min Scan# 637

Delta R.T. -0.01 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC020EC

Tot Ion: 41 Resp: 33048

Ion Ratio Lower Upper

41 100

39 56.5 27.6 82.8

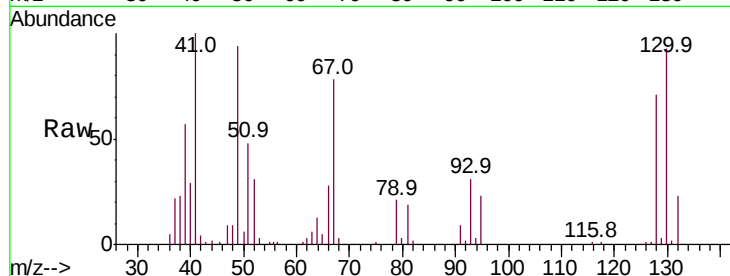
67 78.7 39.1 117.2

52 30.5 14.0 42.0

Manual Integrations
APPROVED

MMDadoda

7/19/2019 9:56:17 AM

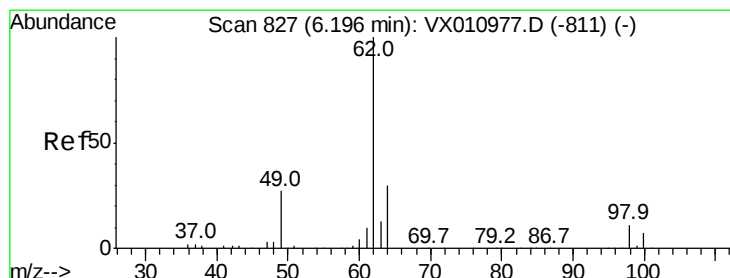
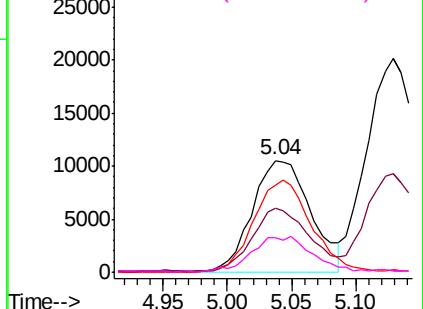
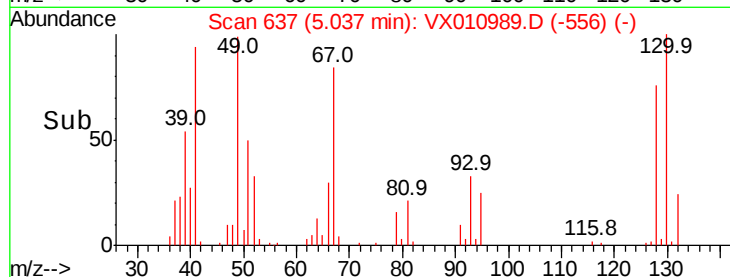


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#36

1,2-Dichloroethane

Concen: 19.892 ug/l

RT: 6.20 min Scan# 827

Delta R.T. -0.00 min

Lab File: VX010989.D

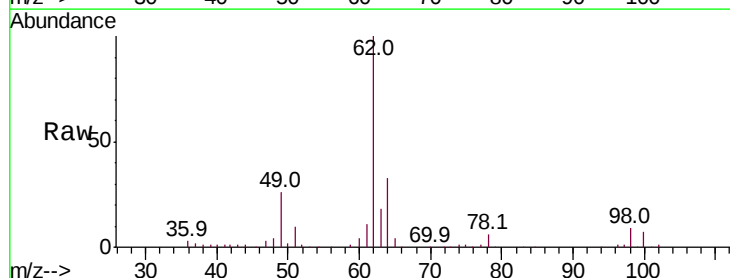
Acq: 19 Jul 2019 03:48

Tgt Ion: 62 Resp: 62363

Ion Ratio Lower Upper

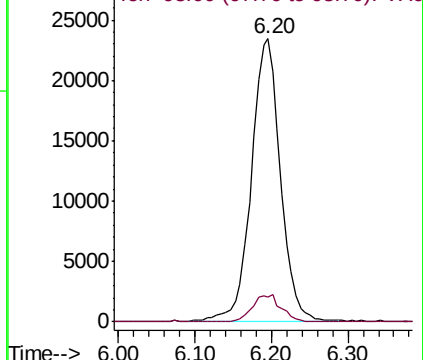
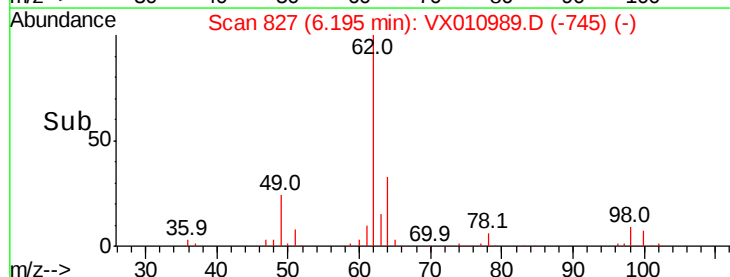
62 100

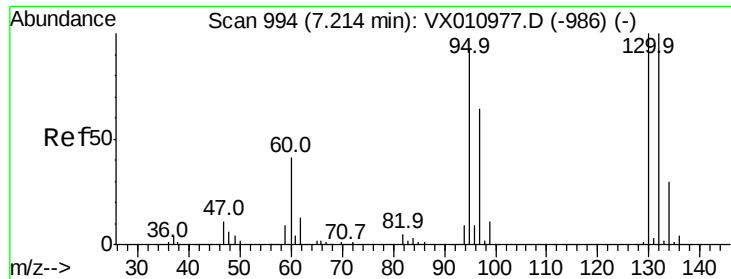
98 5.6 8.0 12.0#



Abundance Ion 62.00 (61.70 to 62.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





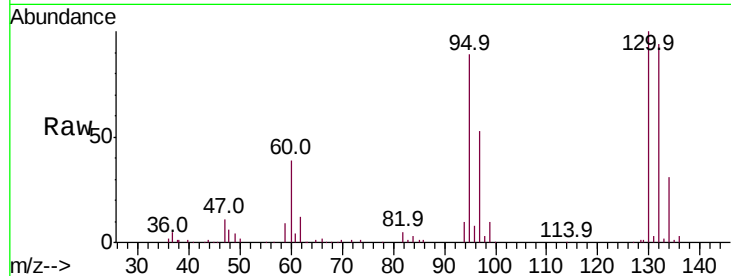
#37
 Trichloroethene
 Concen: 20.589 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. -0.00 min
 Lab File: VX010989.D
 Acq: 19 Jul 2019 03:48

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

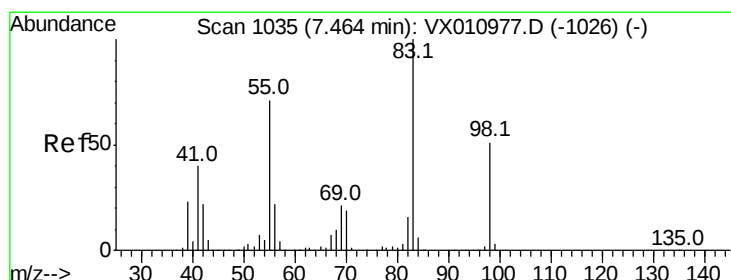
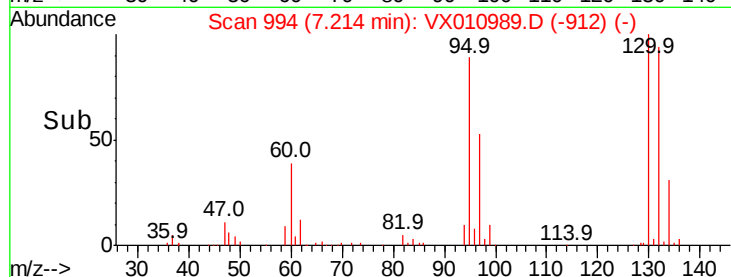
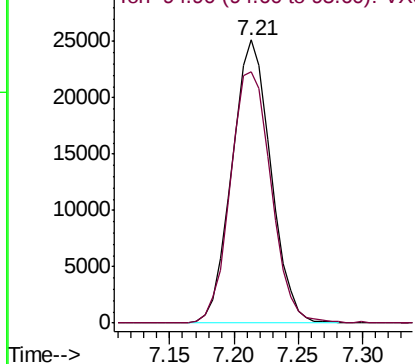
Tot Ion:130 Resp: 52851
 Ion Ratio Lower Upper
 130 100
 95 88.7 74.1 111.1

Manual Integrations
 APPROVED

MMDadoda
 7/19/2019 9:56:17 AM

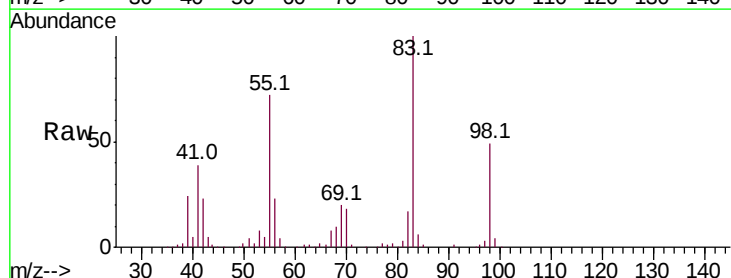


Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VX0

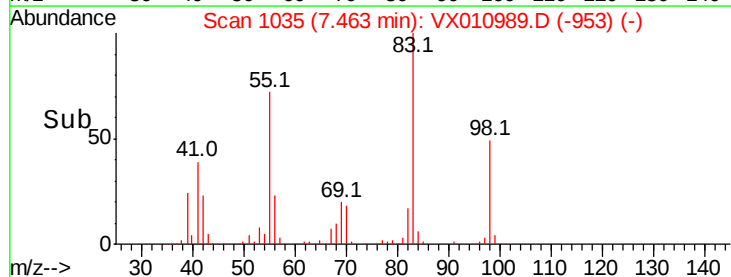
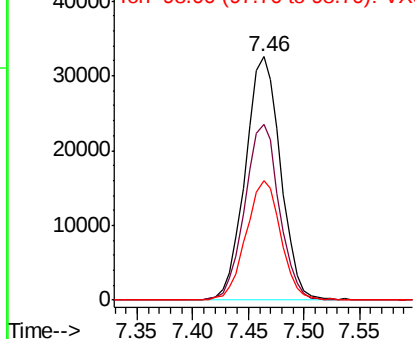


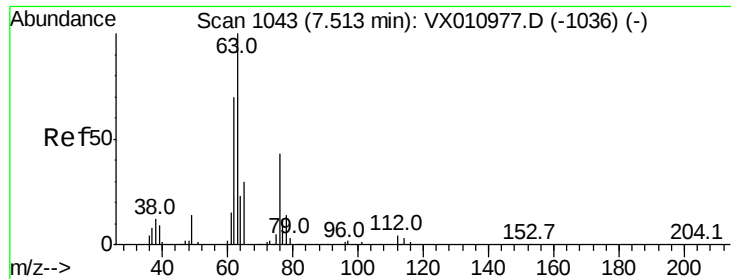
#38
 Methylcyclohexane
 Concen: 19.476 ug/l
 RT: 7.46 min Scan# 1035
 Delta R.T. -0.00 min
 Lab File: VX010989.D
 Acq: 19 Jul 2019 03:48

Tgt Ion: 83 Resp: 71845
 Ion Ratio Lower Upper
 83 100
 55 70.5 35.3 105.9
 98 48.7 24.0 72.0



Abundance Ion 83.00 (82.70 to 83.70): VX0
 Ion 55.00 (54.70 to 55.70): VX0
 Ion 98.00 (97.70 to 98.70): VX0





#39

1,2-Dichloropropane

Concen: 20.842 ug/l

RT: 7.51 min Scan# 1043

Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC020EC

Tot Ion: 63 Resp: 45678

Ion Ratio Lower Upper

63 100

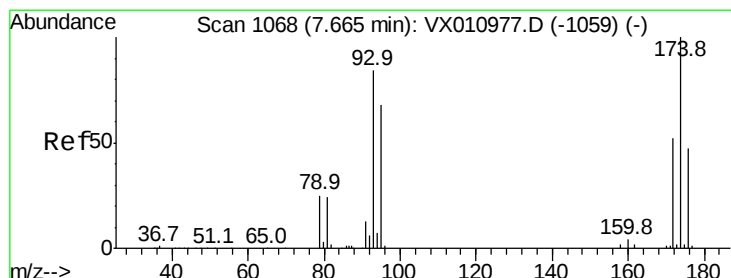
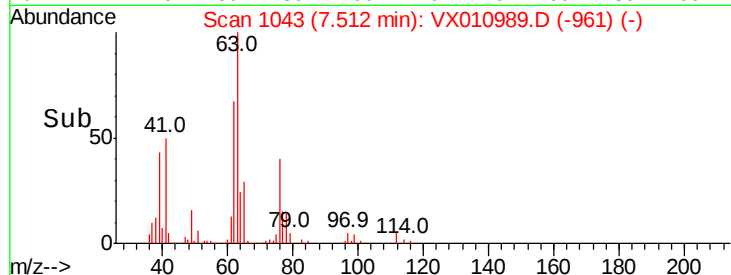
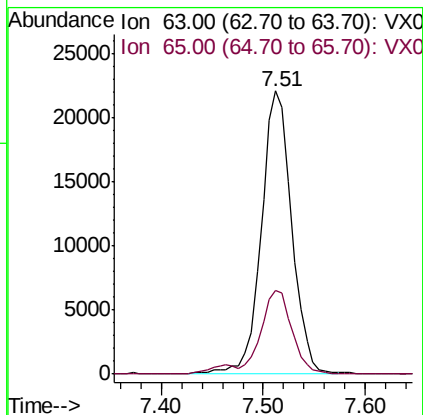
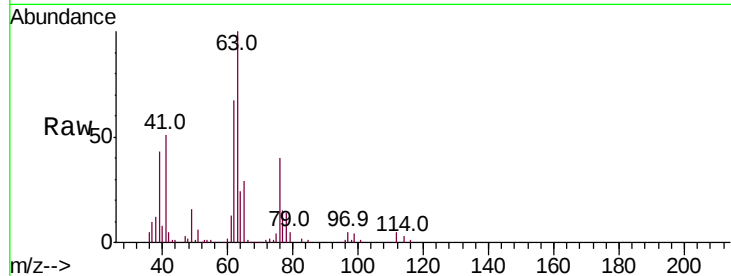
65 29.4 25.6 38.4

Manual Integrations

APPROVED

MMDadoda

7/19/2019 9:56:17 AM



#40

Dibromomethane

Concen: 20.181 ug/l

RT: 7.66 min Scan# 1067

Delta R.T. -0.01 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

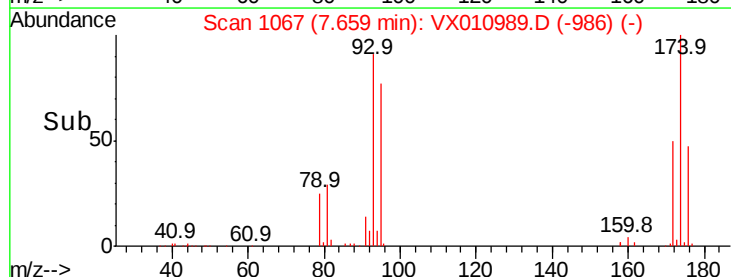
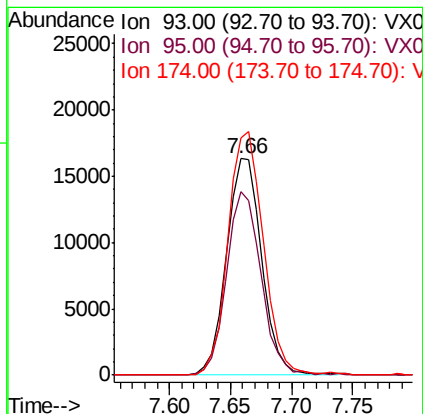
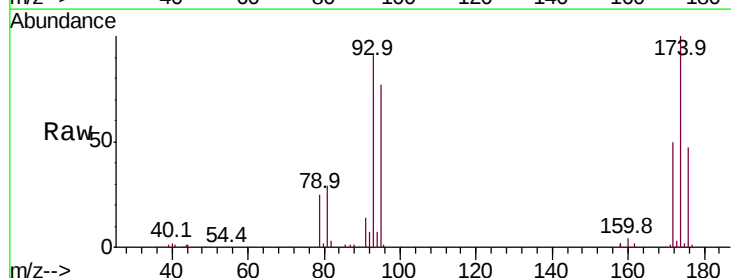
Tgt Ion: 93 Resp: 32530

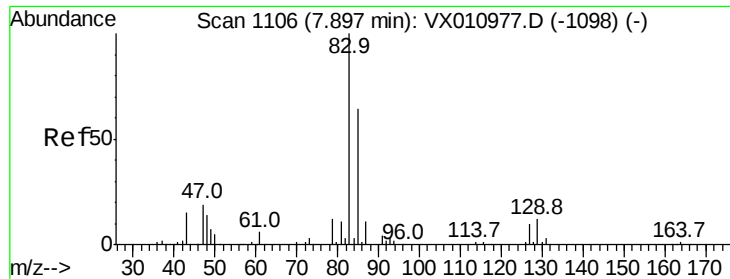
Ion Ratio Lower Upper

93 100

95 82.4 0.0 166.0

174 112.3 0.0 229.2





#41

Bromodichloromethane

Concen: 19.391 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Instrument :

MSVOA_X

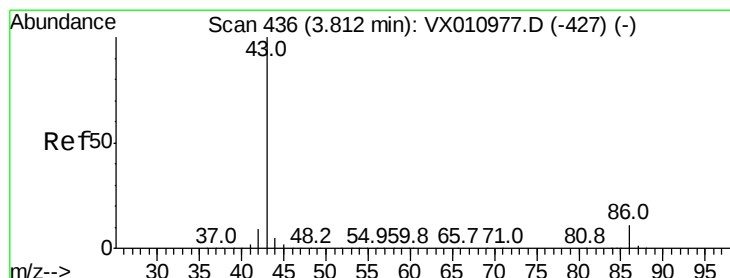
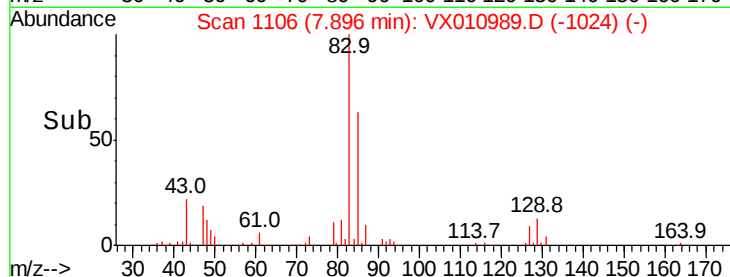
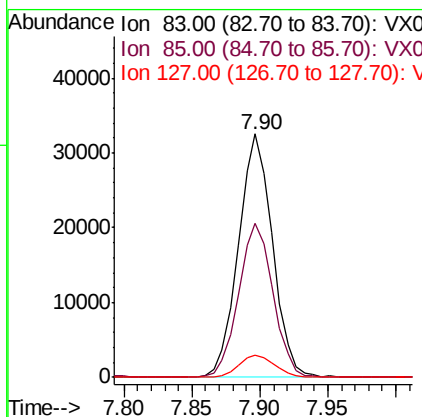
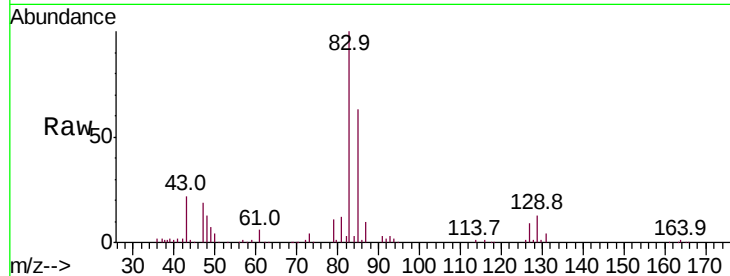
ClientSampleId :

VSTDCCC020EC

Tot Ion:	83	Resp:	56892
Ion	Ratio	Lower	Upper
83	100		
85	63.5	50.9	76.3
127	9.3	7.7	11.5

Manual Integrations
APPROVED

MMDadoda
7/19/2019 9:56:17 AM



#42

Vinyl Acetate

Concen: 80.615 ug/l

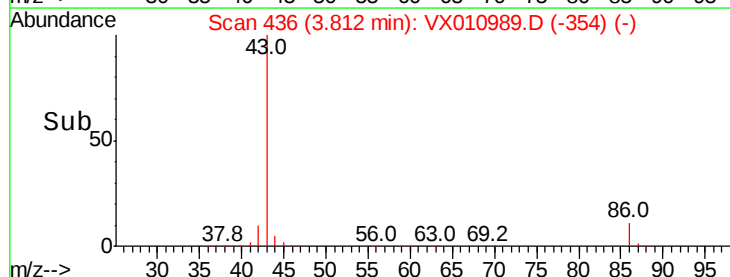
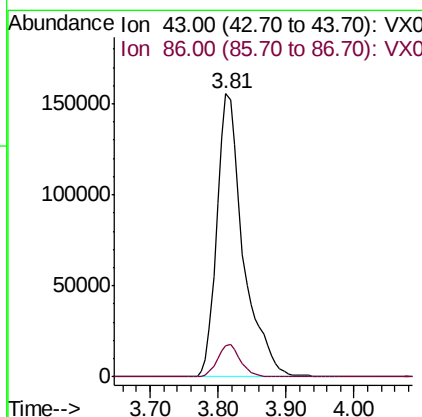
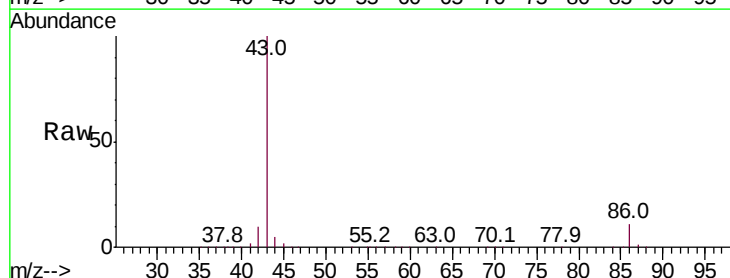
RT: 3.81 min Scan# 436

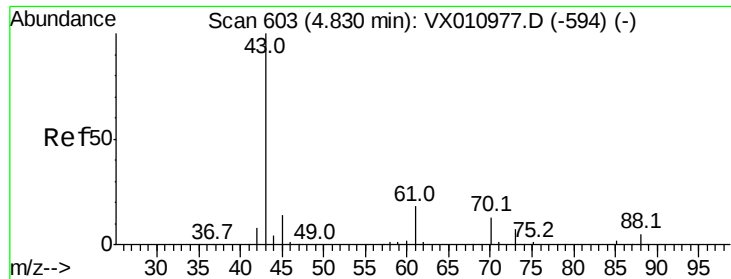
Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Tgt Ion:	43	Resp:	419061
Ion	Ratio	Lower	Upper
43	100		
86	9.9	8.2	12.2





#43

Ethyl Acetate

Concen: 18.251 ug/l

RT: 4.84 min Scan# 604

Delta R.T. 0.01 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC020EC

Tot Ion: 43 Resp: 55276

Ion Ratio Lower Upper

43 100

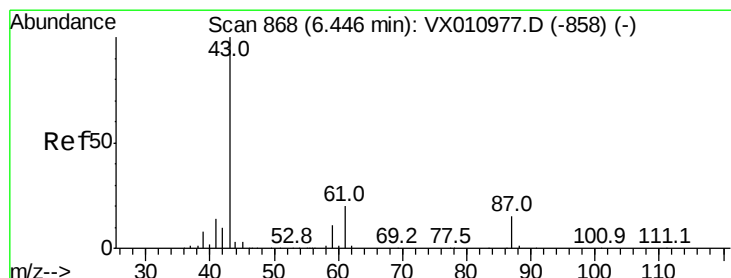
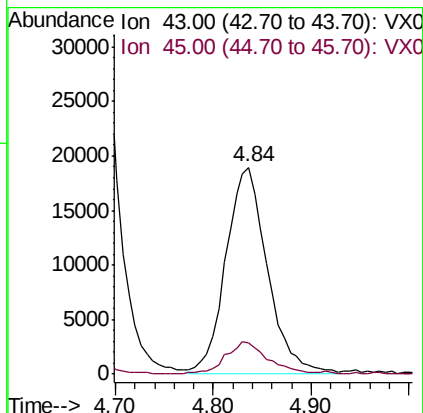
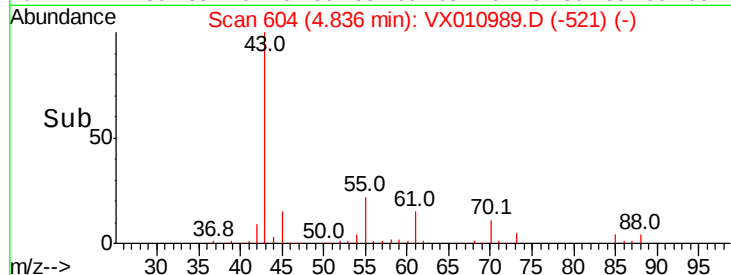
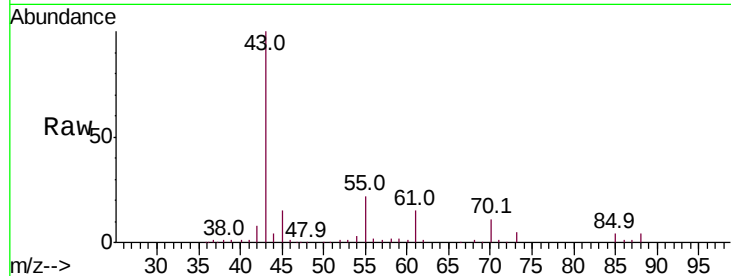
45 16.1 12.1 18.1

Manual Integrations

APPROVED

MMDadoda

7/19/2019 9:56:17 AM



#44

Isopropyl Acetate

Concen: 17.645 ug/l

RT: 6.45 min Scan# 868

Delta R.T. -0.00 min

Lab File: VX010989.D

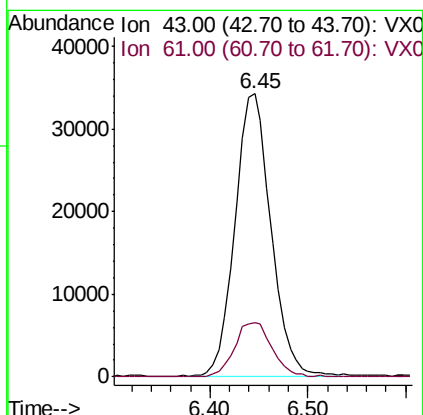
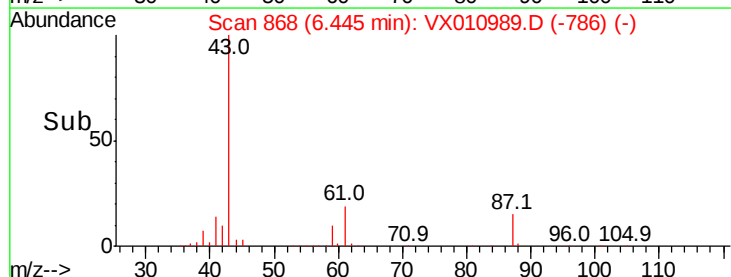
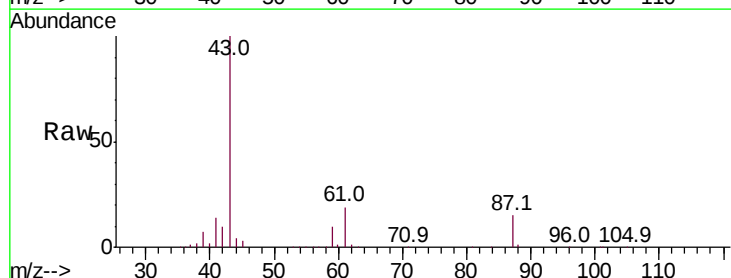
Acq: 19 Jul 2019 03:48

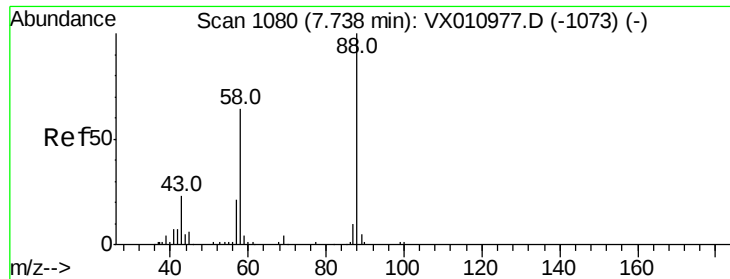
Tgt Ion: 43 Resp: 87044

Ion Ratio Lower Upper

43 100

61 20.1 16.7 25.1





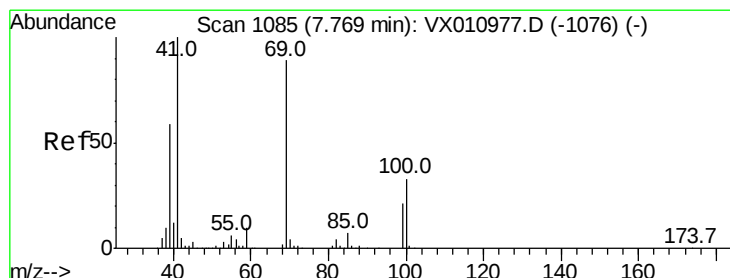
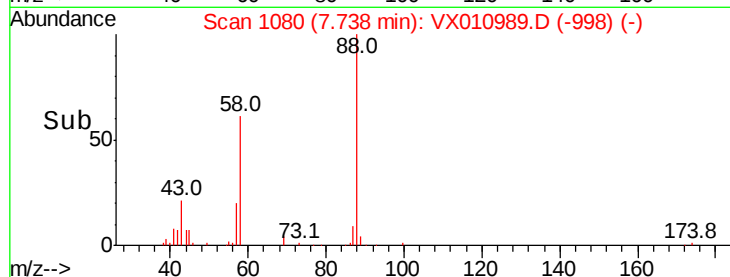
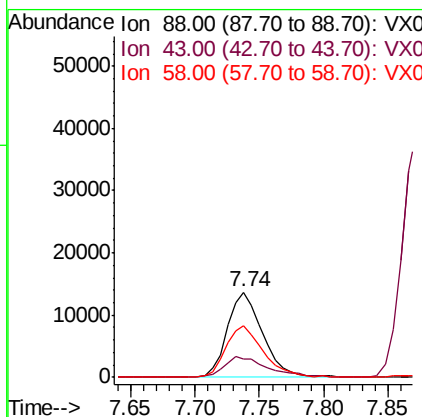
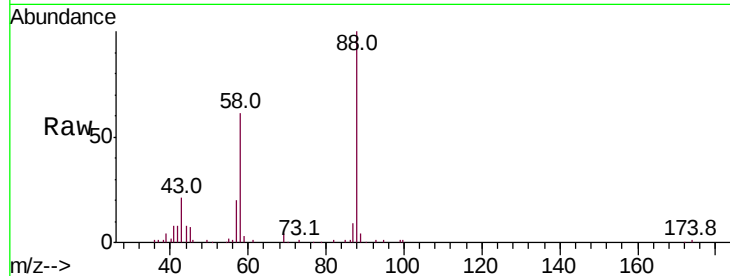
#45
1,4-Dioxane
Concen: 406.419 ug/l
RT: 7.74 min Scan# 1080
Delta R.T. -0.00 min
Lab File: VX010989.D
Acq: 19 Jul 2019 03:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
88	100		
43	30.2	21.6	32.4
58	64.4	52.2	78.2

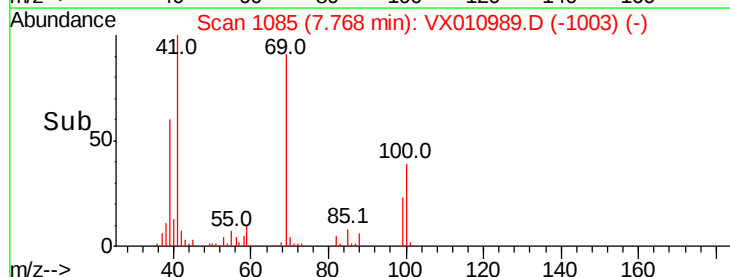
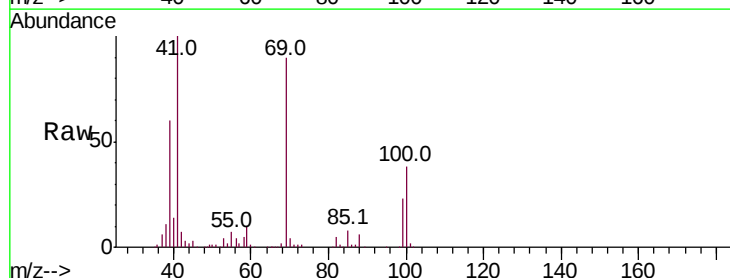
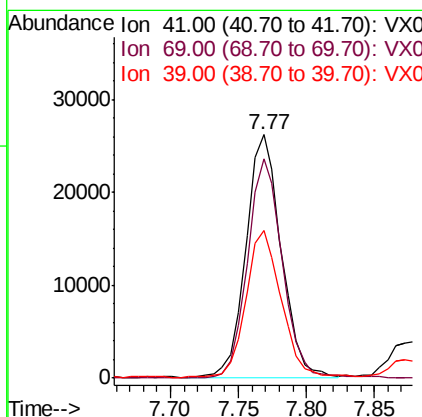
Manual Integrations
APPROVED

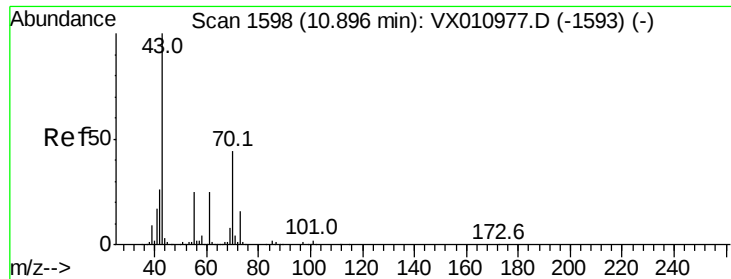
MMDadoda
7/19/2019 9:56:17 AM



#46
Methyl methacrylate
Concen: 19.705 ug/l
RT: 7.77 min Scan# 1085
Delta R.T. -0.00 min
Lab File: VX010989.D
Acq: 19 Jul 2019 03:48

Tgt Ion	Ratio	Lower	Upper
41	100		
69	90.6	44.7	134.1
39	60.0	29.4	88.2





#47

n-amvl Acetate

Concen: 15.833 ug/l

RT: 10.90 min Scan# 1598

Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC020EC

Tot Ion: 43 Resp: 70050

Ion Ratio Lower Upper

43 100

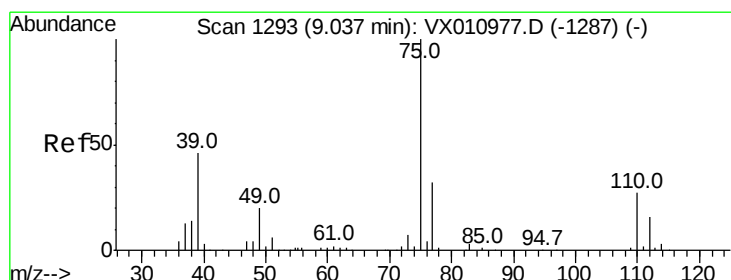
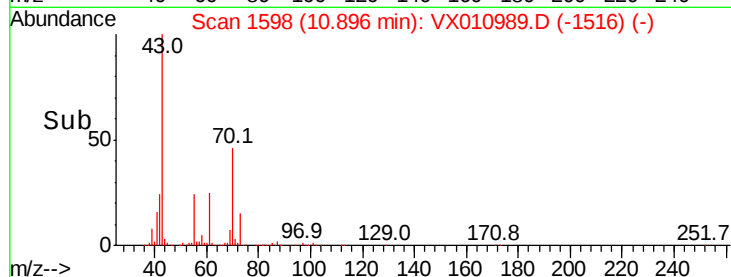
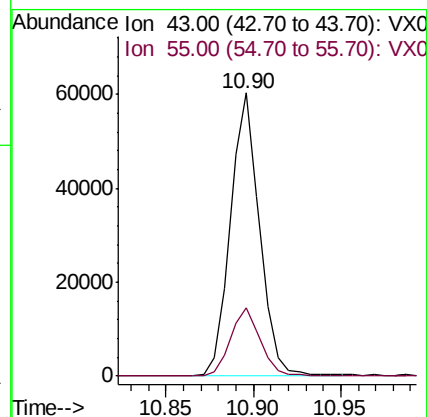
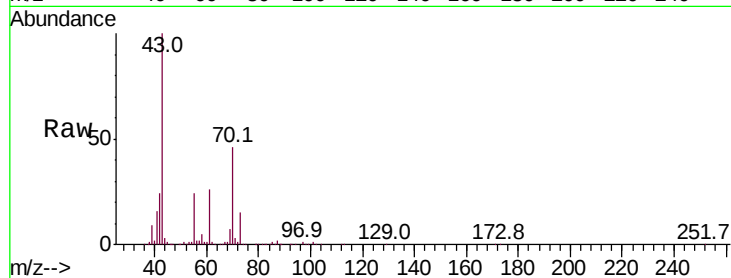
55 24.7 19.6 29.4

Manual Integrations

APPROVED

MMDadoda

7/19/2019 9:56:17 AM



#48

t-1,3-Dichloropropene

Concen: 17.929 ug/l

RT: 9.04 min Scan# 1293

Delta R.T. -0.00 min

Lab File: VX010989.D

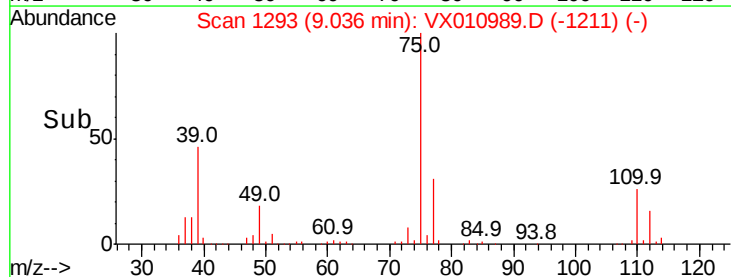
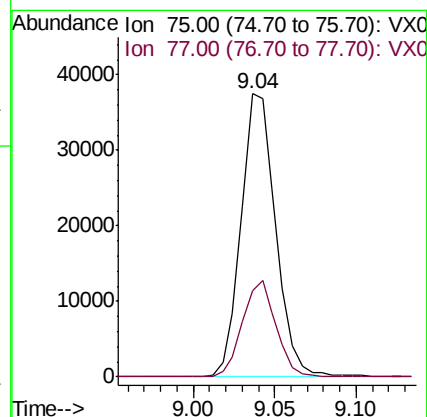
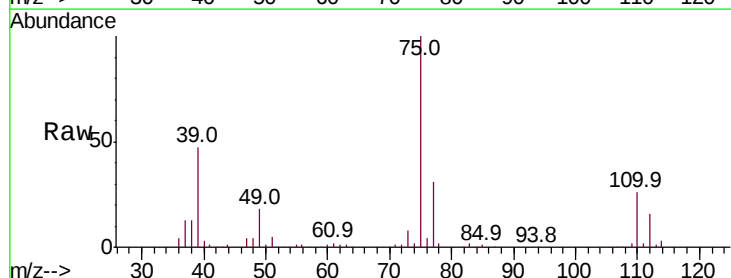
Acq: 19 Jul 2019 03:48

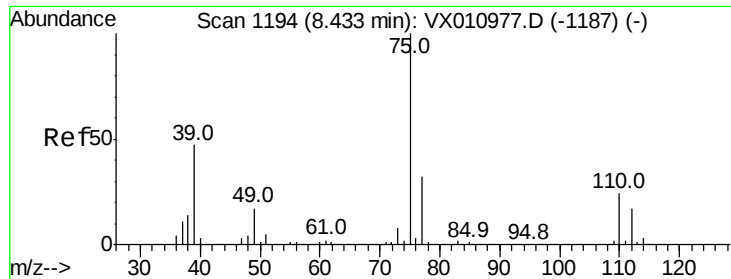
Tgt Ion: 75 Resp: 55438

Ion Ratio Lower Upper

75 100

77 30.7 25.7 38.5





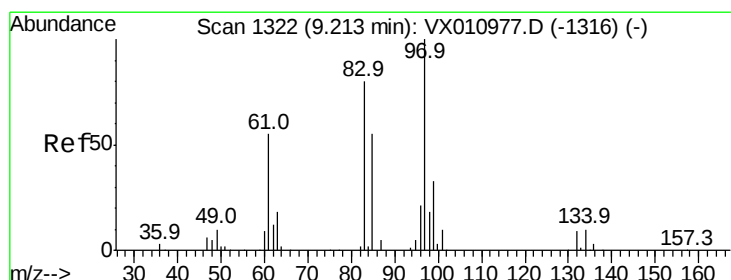
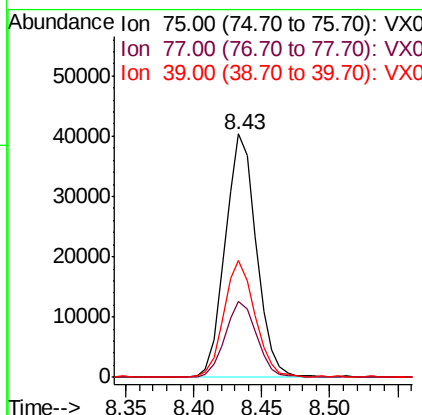
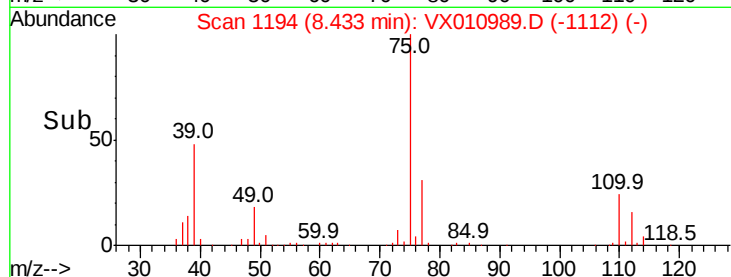
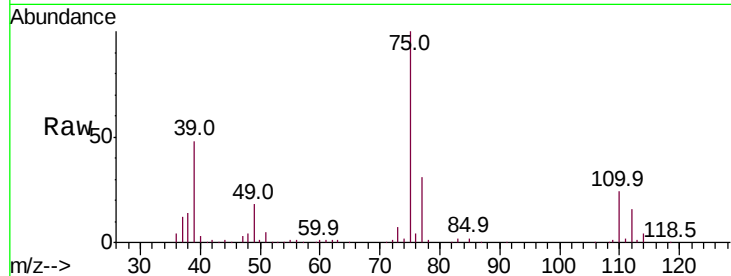
#49
 cis-1,3-Dichloropropene
 Concen: 19.055 ug/l
 RT: 8.43 min Scan# 1194
 Delta R.T. -0.00 min
 Lab File: VX010989.D
 Acq: 19 Jul 2019 03:48

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.3	37.9
39	47.9	37.8	56.6

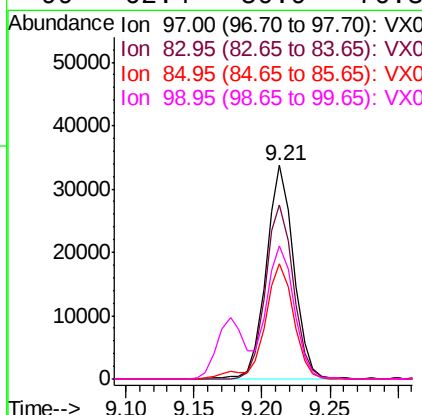
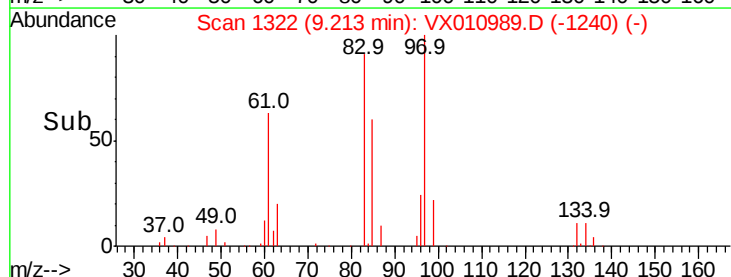
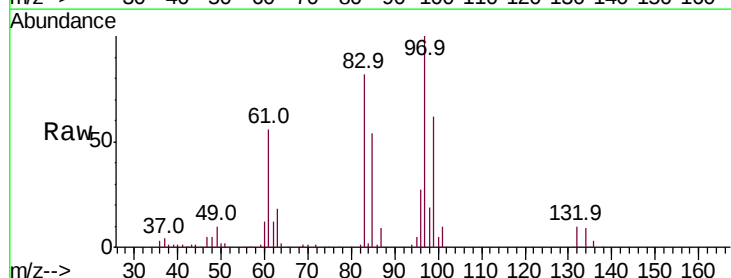
Manual Integrations
 APPROVED

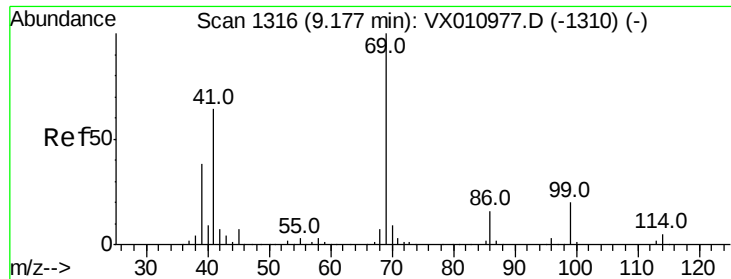
MMDadoda
 7/19/2019 9:56:17 AM



#50
 1,1,2-Trichloroethane
 Concen: 20.303 ug/l
 RT: 9.21 min Scan# 1322
 Delta R.T. -0.00 min
 Lab File: VX010989.D
 Acq: 19 Jul 2019 03:48

Tgt Ion	Ratio	Lower	Upper
97	100		
83	81.6	63.9	95.9
85	53.9	43.4	65.2
99	62.4	50.9	76.3





#51

Ethyl methacrylate

Concen: 19.613 ug/l

RT: 9.18 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Instrument :

MSVOA_X

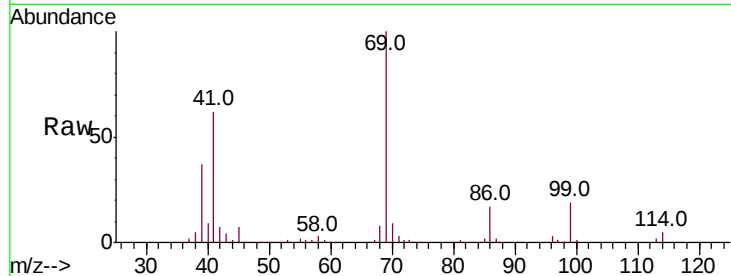
ClientSampleId :

VSTDCCC020EC

Tot Ion:	69	Resp:	71556
Ion Ratio	Lower	Upper	
69	100		
41	61.9	32.1	96.3
39	36.3	19.1	57.3

Manual Integrations
APPROVED

MMDadoda
7/19/2019 9:56:17 AM

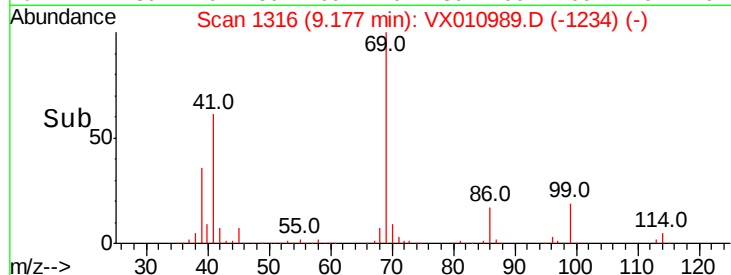


Abundance Ion 69.00 (68.70 to 69.70): VX010977.D (-1310) (-)

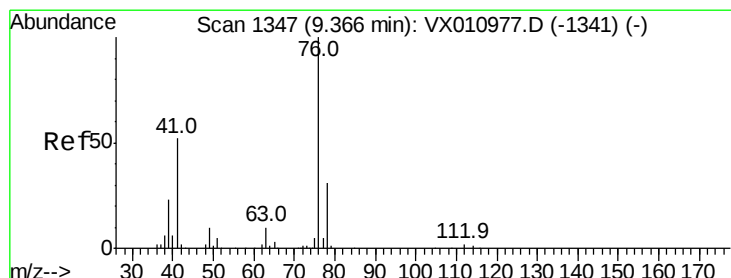
Ion 41.00 (40.70 to 41.70): VX010977.D (-1310) (-)

Ion 39.00 (38.70 to 39.70): VX010977.D (-1310) (-)

Time-->



Time-->



#52

1,3-Dichloropropane

Concen: 20.115 ug/l

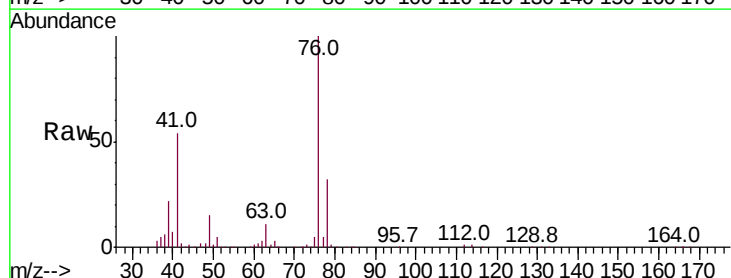
RT: 9.37 min Scan# 1348

Delta R.T. 0.01 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

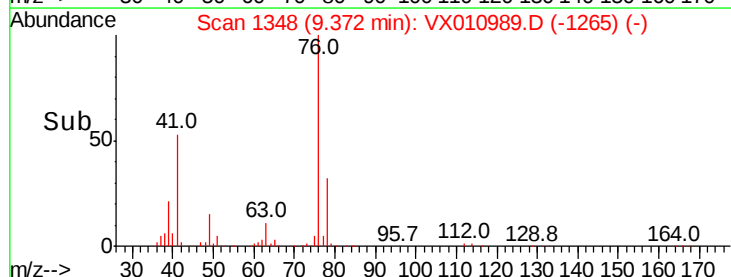
Tgt Ion:	76	Resp:	76254
Ion Ratio	Lower	Upper	
76	100		
78	32.8	0.0	63.8



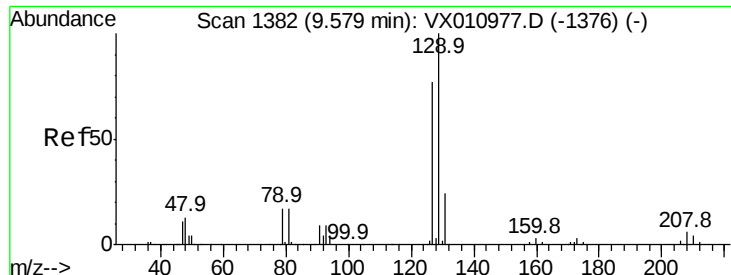
Abundance Ion 76.00 (75.70 to 76.70): VX010977.D (-1341) (-)

Ion 78.00 (77.70 to 78.70): VX010977.D (-1341) (-)

Time-->



Time-->



#53

Dibromochloromethane

Concen: 18.744 ug/l

RT: 9.58 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC020EC

Tot Ion:129 Resp: 47755

Ion Ratio Lower Upper

129 100

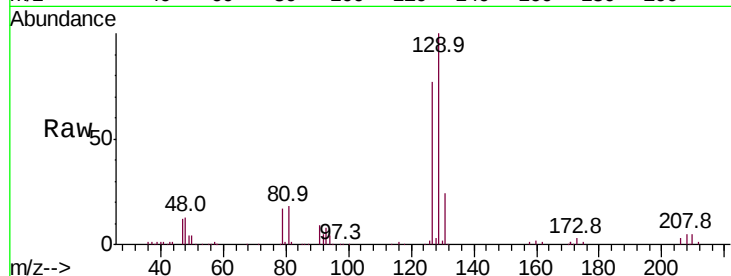
127 78.5 38.1 114.3

Manual Integrations

APPROVED

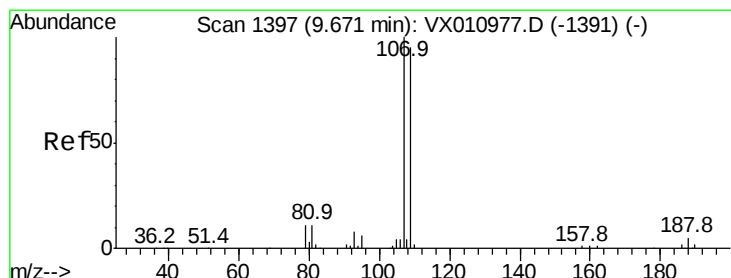
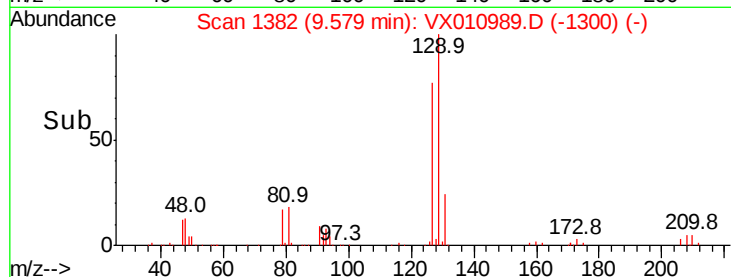
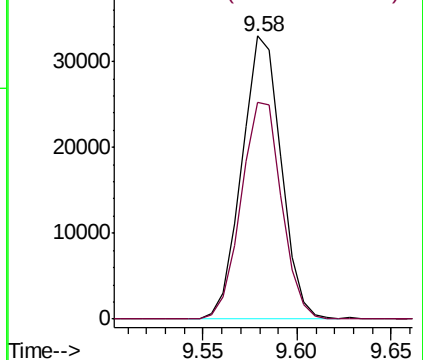
MMDadoda

7/19/2019 9:56:17 AM



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 20.131 ug/l

RT: 9.67 min Scan# 1397

Delta R.T. -0.00 min

Lab File: VX010989.D

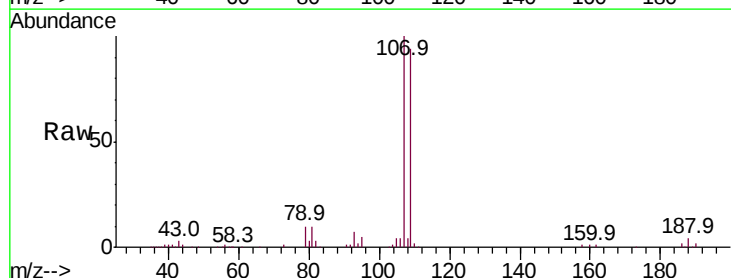
Acq: 19 Jul 2019 03:48

Tgt Ion:107 Resp: 51609

Ion Ratio Lower Upper

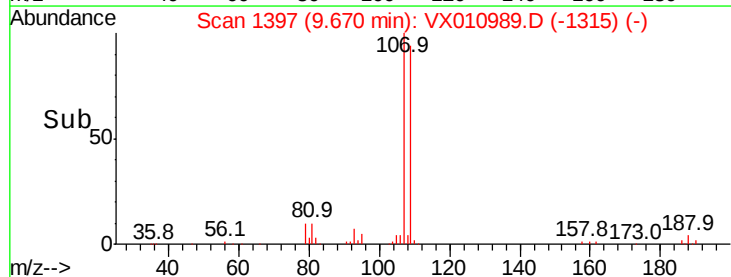
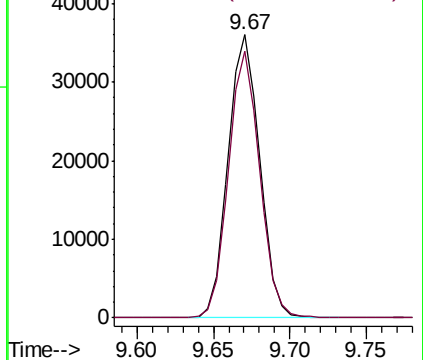
107 100

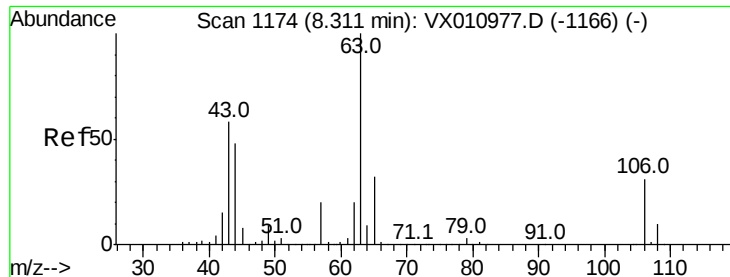
109 92.9 77.1 115.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#55

2-Chloroethyl vinyl ether

Concen: 95.842 ug/l

RT: 8.31 min Scan# 1174

Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC020EC

Tot Ion: 63 Resp: 148079

Ion Ratio Lower Upper

63 100

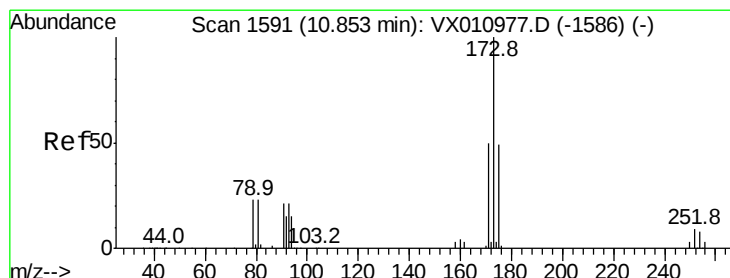
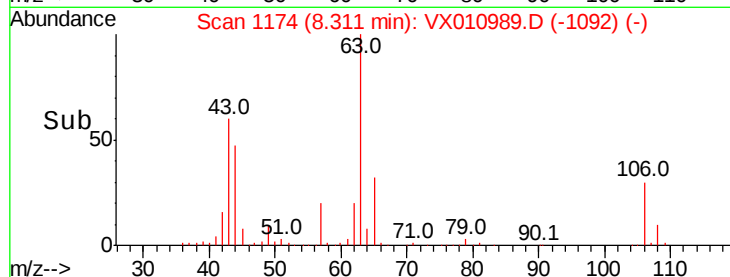
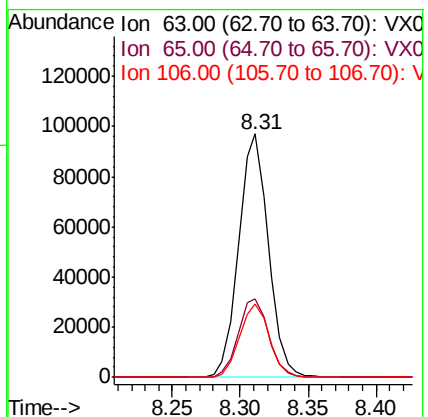
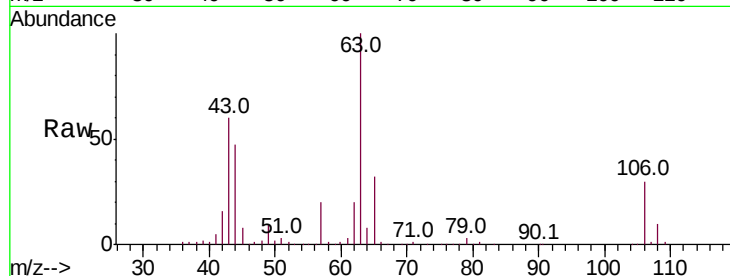
65 32.9 25.7 38.5

106 30.4 24.8 37.2

Manual Integrations
APPROVED

MMDadoda

7/19/2019 9:56:17 AM



#56

Bromoform

Concen: 17.613 ug/l

RT: 10.85 min Scan# 1591

Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

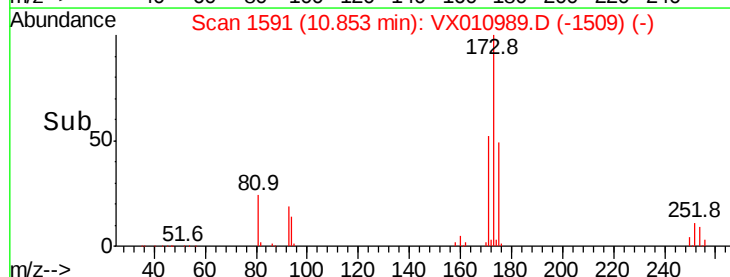
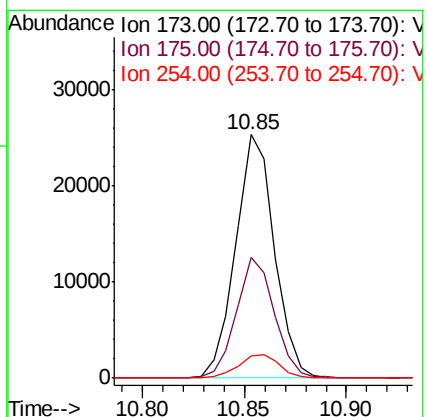
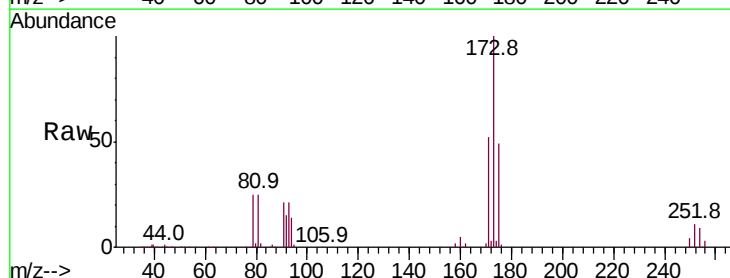
Tgt Ion: 173 Resp: 33421

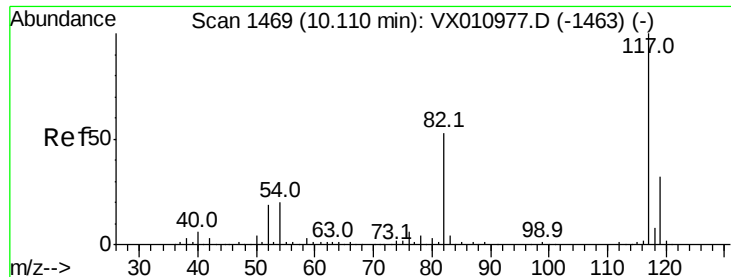
Ion Ratio Lower Upper

173 100

175 48.6 39.0 58.6

254 10.2 7.9 11.9





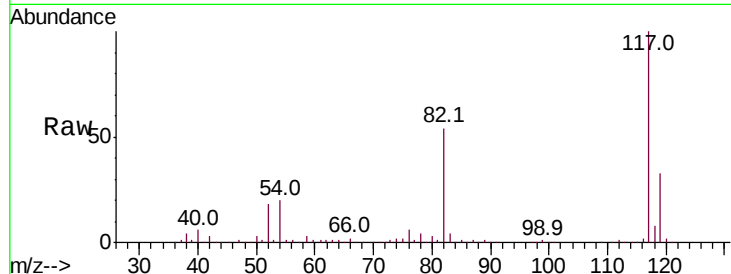
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX010989.D
Acq: 19 Jul 2019 03:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020EC

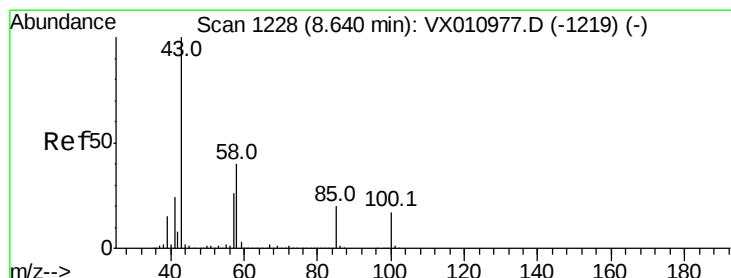
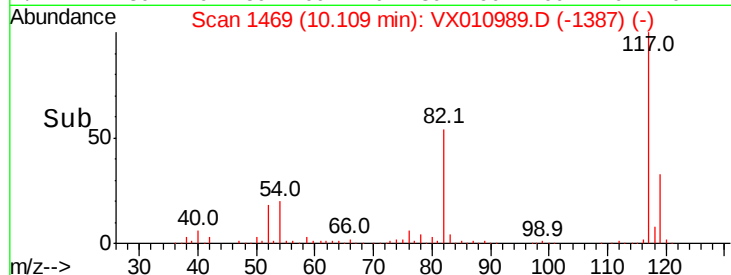
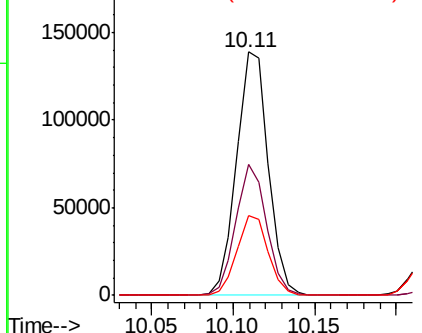
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.2	41.6	62.4
119	32.5	26.0	39.0

Manual Integrations
APPROVED

MMDadoda
7/19/2019 9:56:17 AM

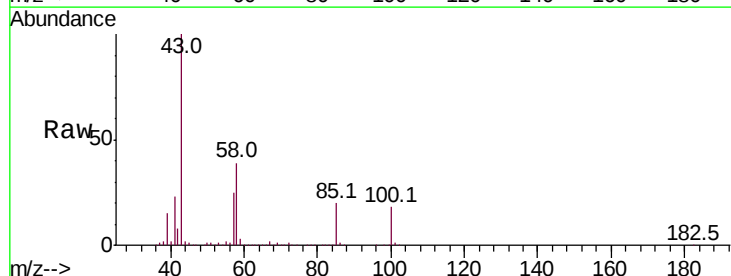


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 119.00 (118.70 to 119.70): V

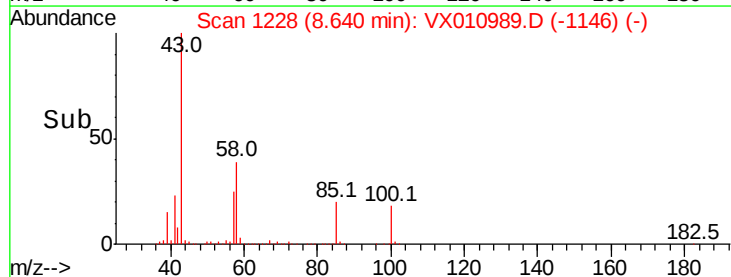
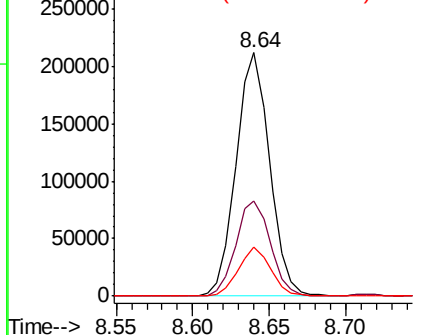


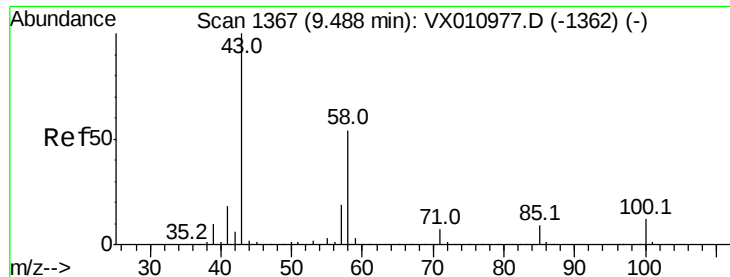
#58
4-Methyl-2-Pentanone
Concen: 100.732 ug/l
RT: 8.64 min Scan# 1228
Delta R.T. -0.00 min
Lab File: VX010989.D
Acq: 19 Jul 2019 03:48

Tgt Ion	Ratio	Lower	Upper
43	100		
58	40.7	32.6	48.8
85	19.4	15.8	23.6



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0
Ion 85.00 (84.70 to 85.70): VX0





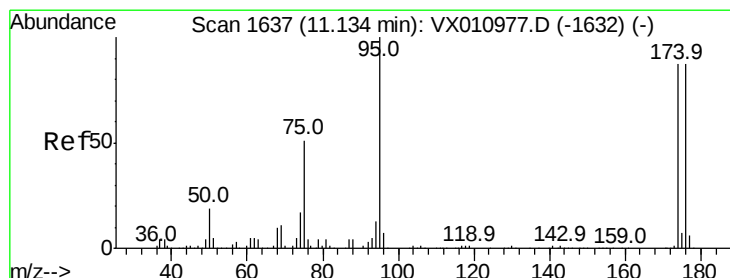
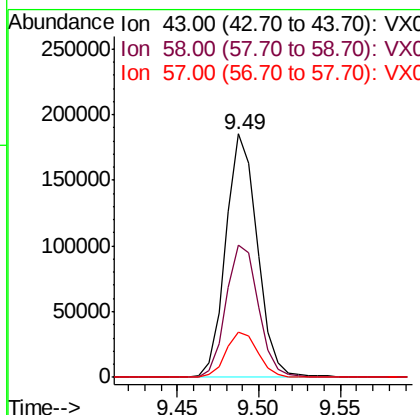
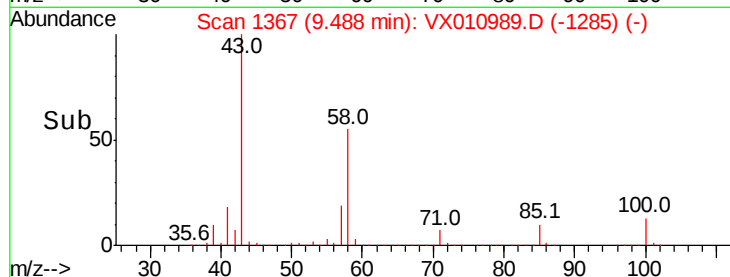
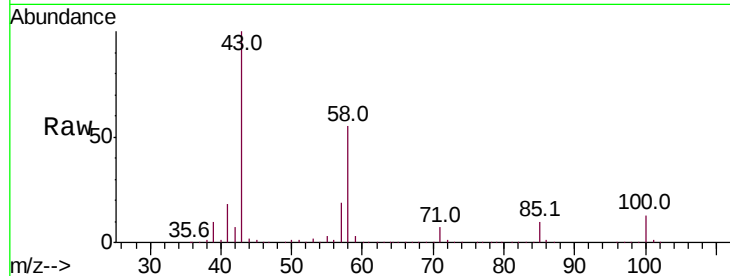
#59
2-Hexanone
Concen: 101.924 ug/l
RT: 9.49 min Scan# 1367
Delta R.T. -0.00 min
Lab File: VX010989.D
Acq: 19 Jul 2019 03:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.5	44.7	67.1
57	19.0	15.4	23.2

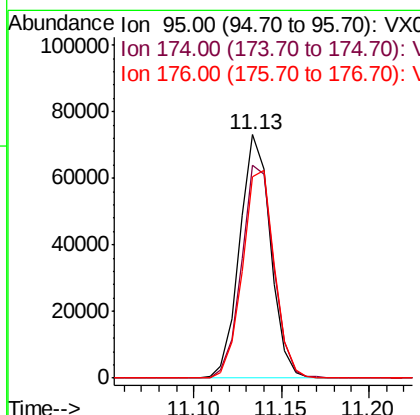
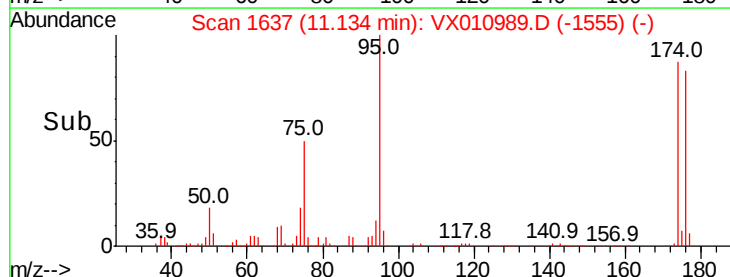
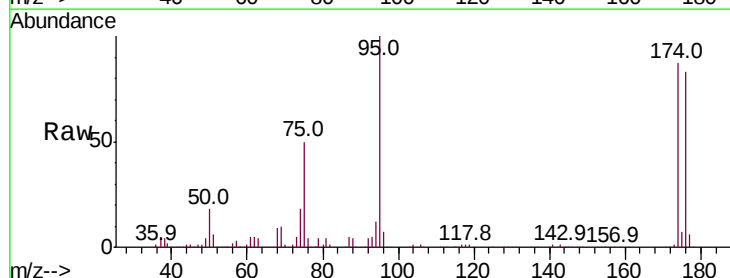
Manual Integrations
APPROVED

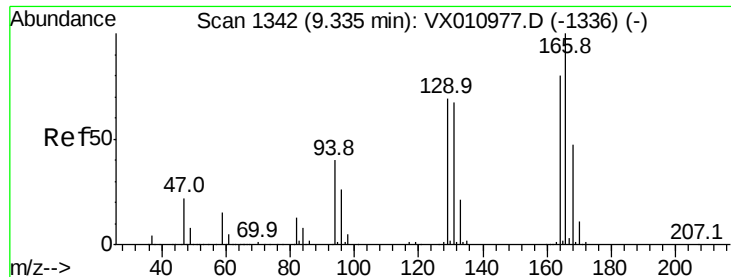
MMDadoda
7/19/2019 9:56:17 AM



#60
4-Bromofluorobenzene
Concen: 28.891 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX010989.D
Acq: 19 Jul 2019 03:48

Tgt Ion	Ratio	Lower	Upper
95	100		
174	90.3	73.3	109.9
176	87.8	71.2	106.8





#61

Tetrachloroethene

Concen: 20.740 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC020EC

Tot Ion:164 Resp: 51766

Ion Ratio Lower Upper

164 100

166 128.9 100.1 150.1

129 90.9 69.6 104.4

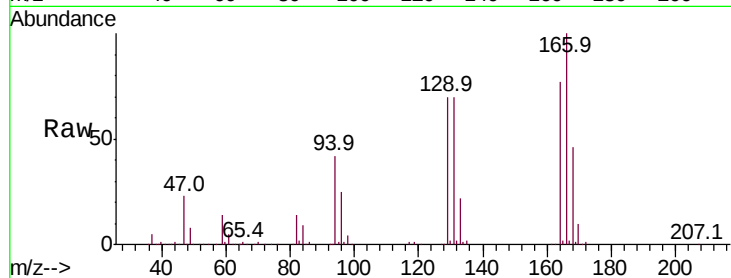
131 90.1 67.0 100.6

Manual Integrations

APPROVED

MMDadoda

7/19/2019 9:56:17 AM

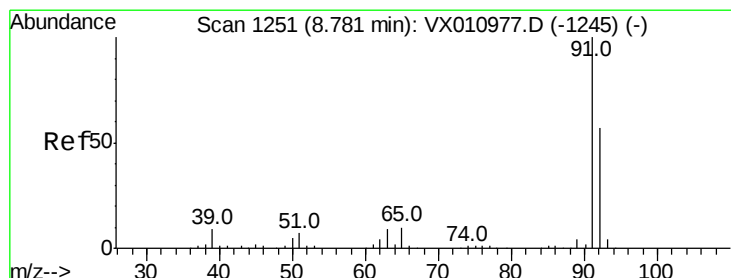
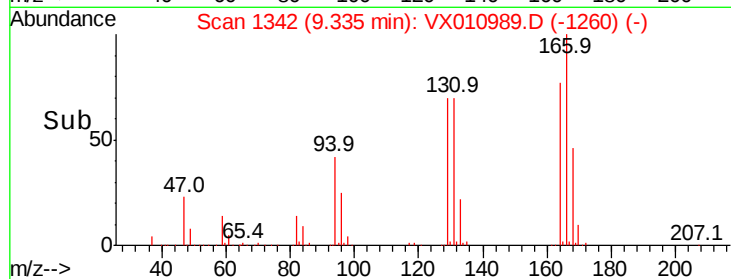
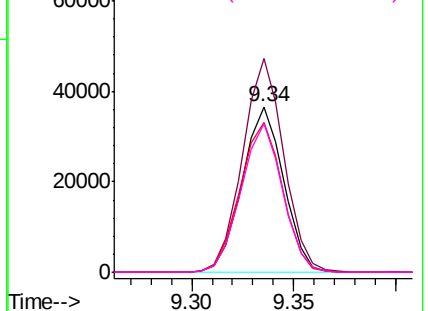


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 20.258 ug/l

RT: 8.78 min Scan# 1251

Delta R.T. -0.00 min

Lab File: VX010989.D

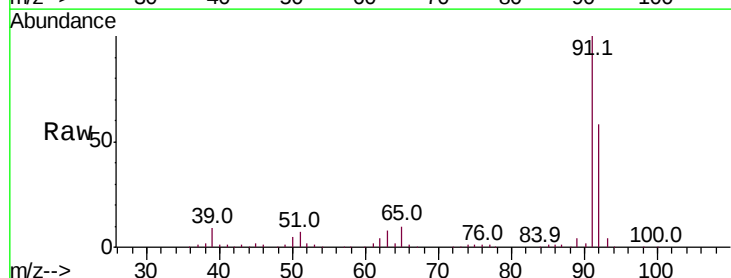
Acq: 19 Jul 2019 03:48

Tgt Ion: 91 Resp: 203446

Ion Ratio Lower Upper

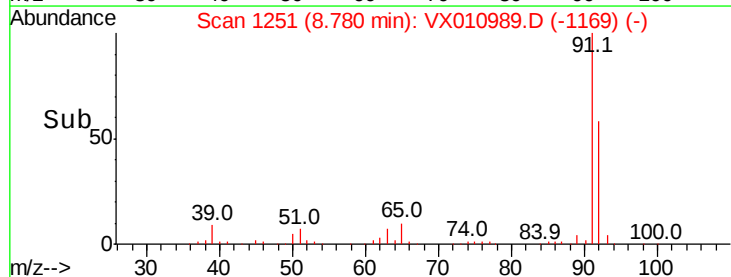
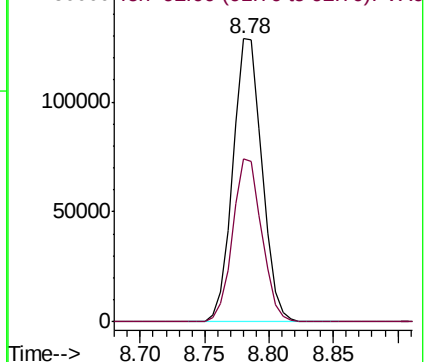
91 100

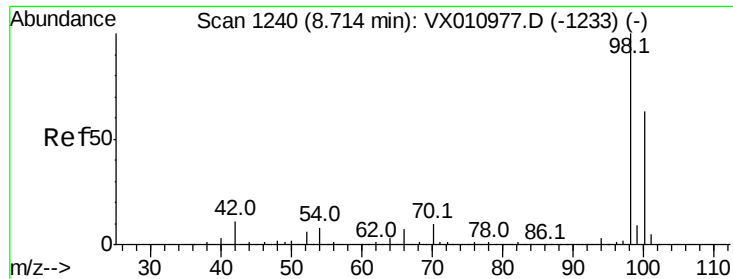
92 57.6 45.4 68.2



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0





#63

Toluene-d8

Concen: 30.639 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC020EC

Tot Ion: 98 Resp: 254579

Ion Ratio Lower Upper

98 100

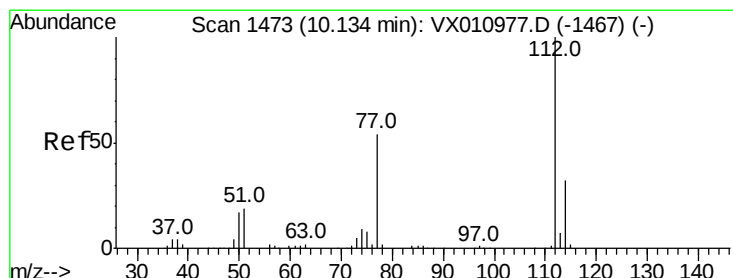
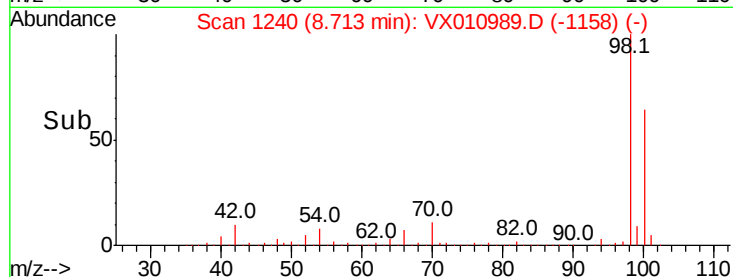
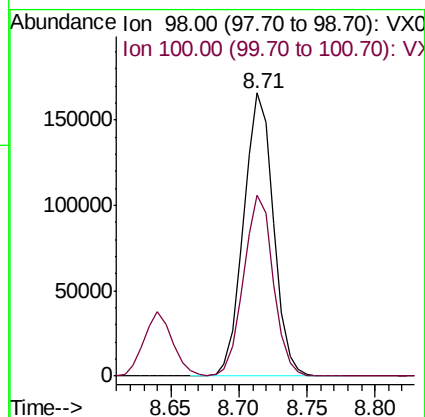
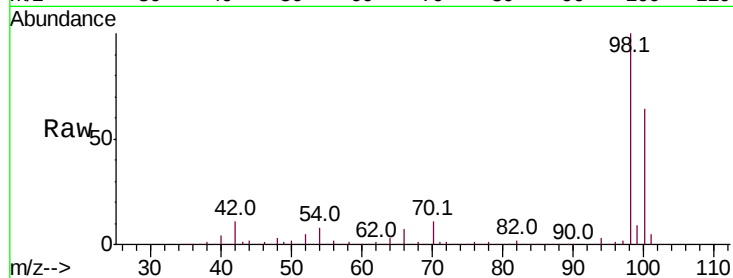
100 63.0 51.4 77.0

Manual Integrations

APPROVED

MMDadoda

7/19/2019 9:56:17 AM



#64

Chlorobenzene

Concen: 20.224 ug/l

RT: 10.14 min Scan# 1474

Delta R.T. 0.01 min

Lab File: VX010989.D

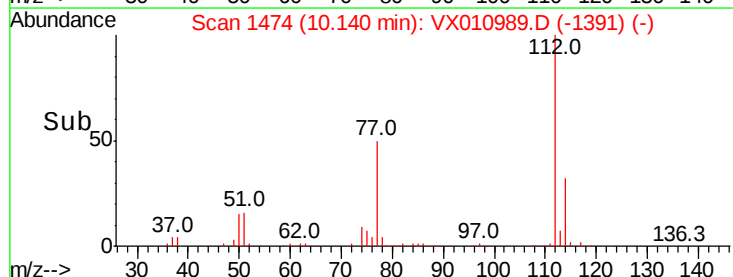
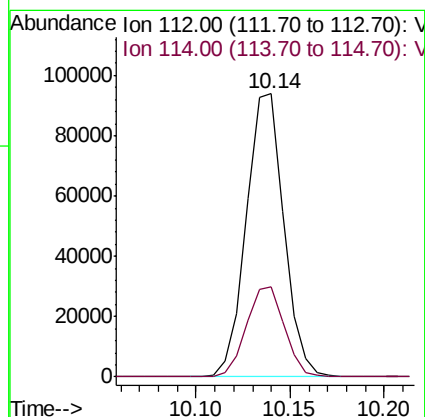
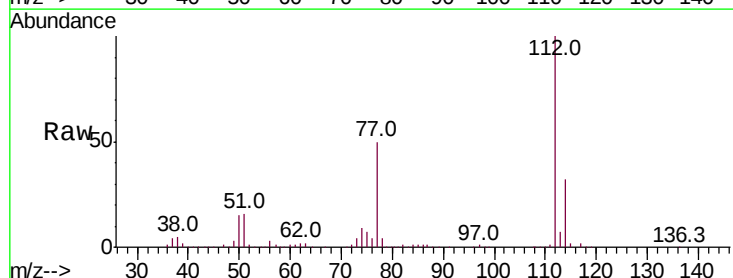
Acq: 19 Jul 2019 03:48

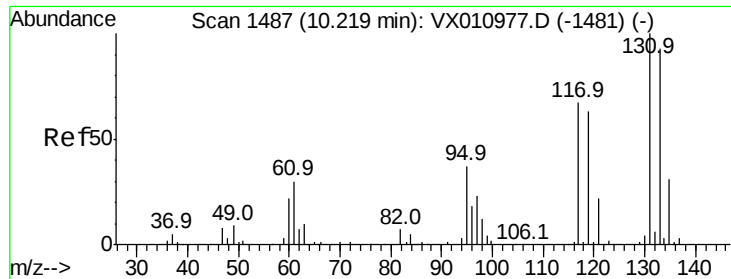
Tgt Ion: 112 Resp: 130128

Ion Ratio Lower Upper

112 100

114 31.7 25.3 37.9





#65

1,1,1,2-Tetrachloroethane

Concen: 19.174 ug/l

RT: 10.22 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC020EC

Tot Ion:131 Resp: 44838

Ion Ratio Lower Upper

131 100

133 97.9 0.0 190.2

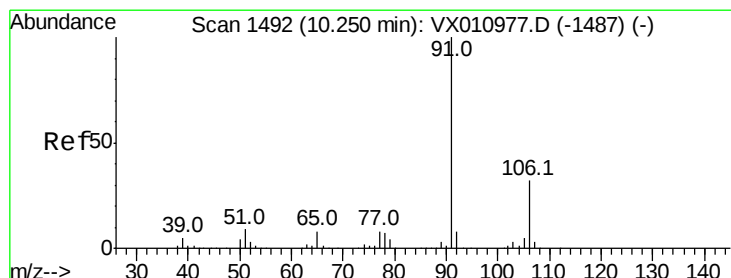
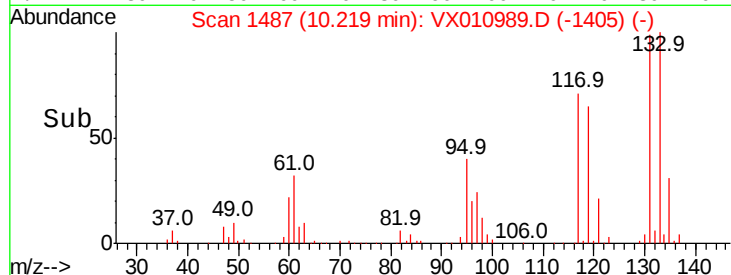
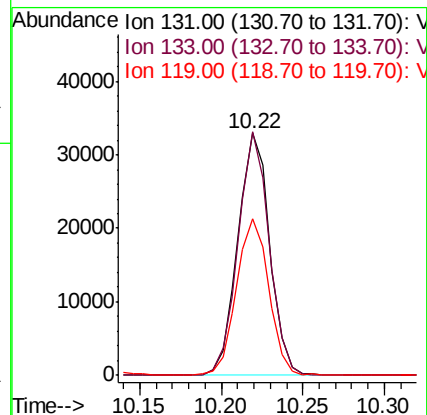
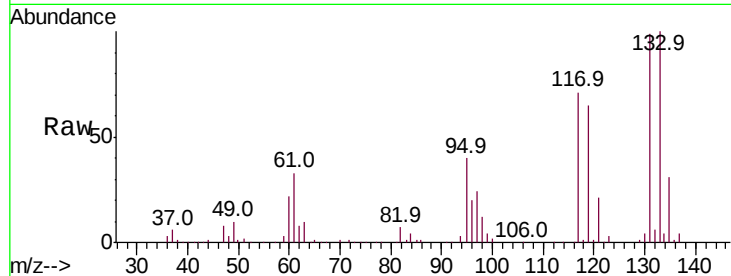
119 65.6 0.0 127.0

Manual Integrations

APPROVED

MMDadoda

7/19/2019 9:56:17 AM



#66

Ethyl Benzene

Concen: 19.907 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. -0.00 min

Lab File: VX010989.D

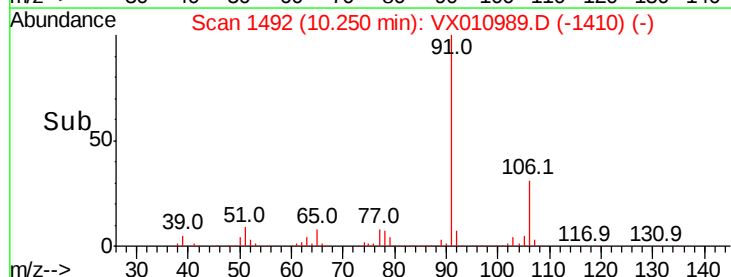
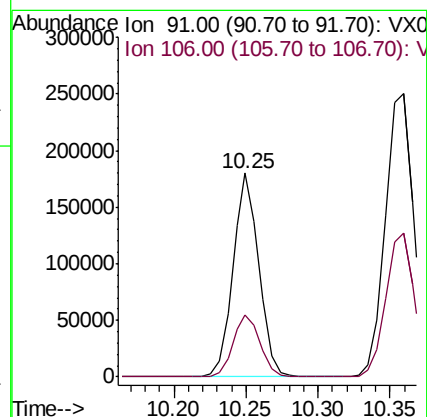
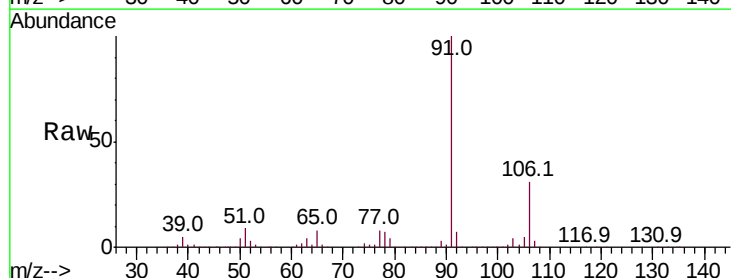
Acq: 19 Jul 2019 03:48

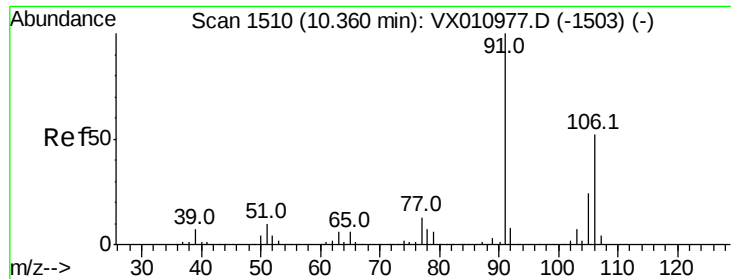
Tgt Ion: 91 Resp: 225053

Ion Ratio Lower Upper

91 100

106 30.7 25.8 38.8





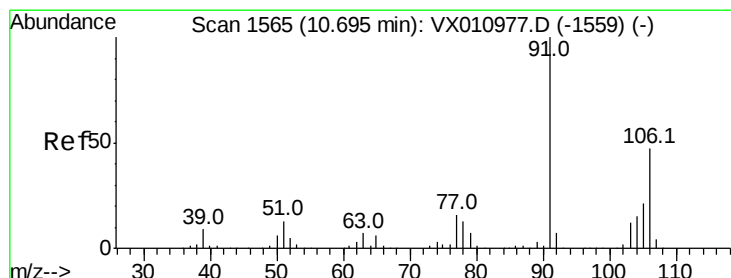
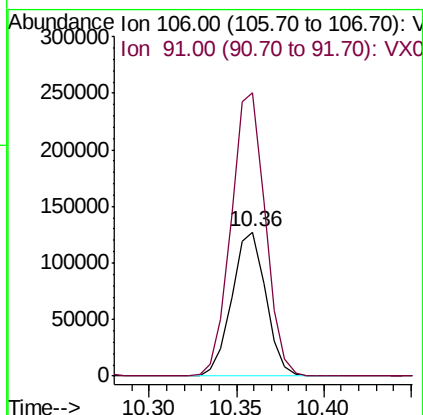
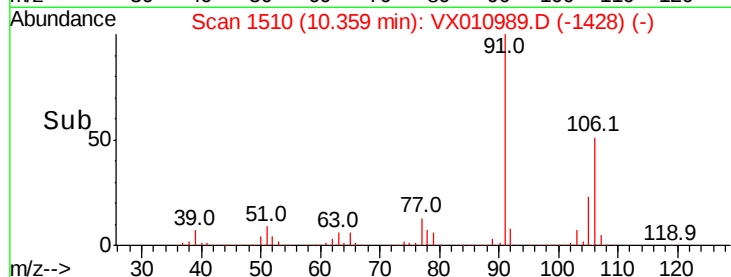
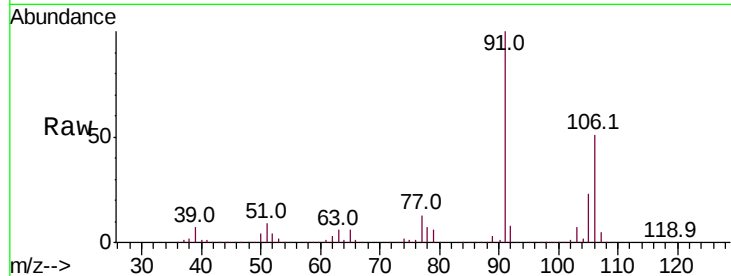
#67
m/p-Xylenes
Concen: 39.771 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX010989.D
Acq: 19 Jul 2019 03:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020EC

Tot Ion:106 Resp: 172026
Ion Ratio Lower Upper
106 100
91 197.6 156.6 235.0

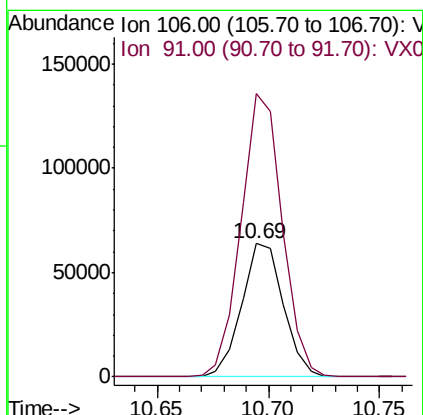
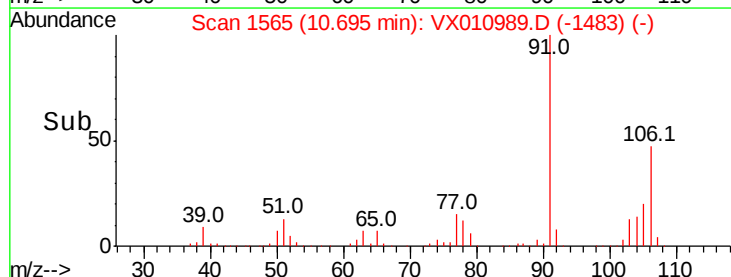
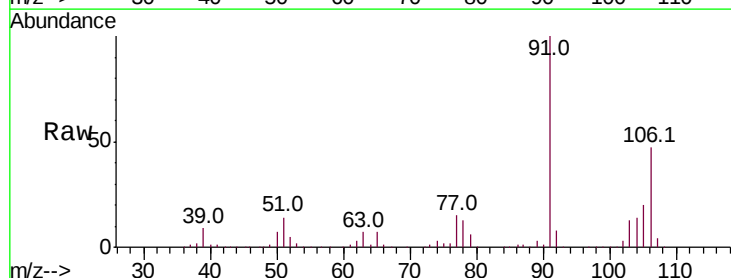
Manual Integrations
APPROVED

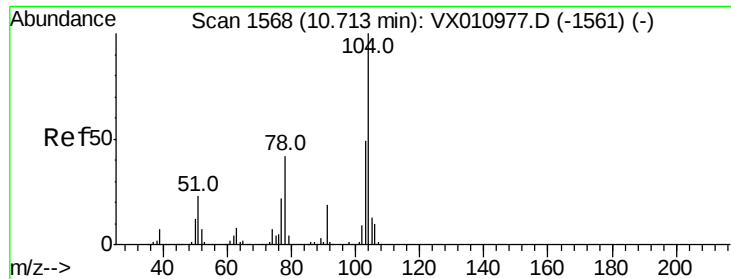
MMDadoda
7/19/2019 9:56:17 AM



#68
o-Xylene
Concen: 19.778 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. -0.00 min
Lab File: VX010989.D
Acq: 19 Jul 2019 03:48

Tgt Ion:106 Resp: 83822
Ion Ratio Lower Upper
106 100
91 209.5 104.0 312.0





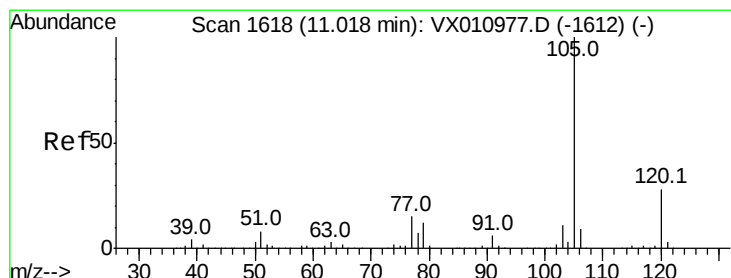
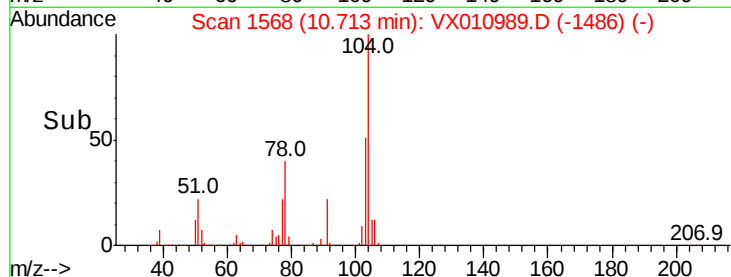
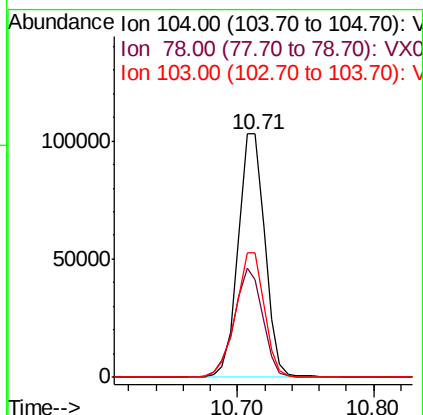
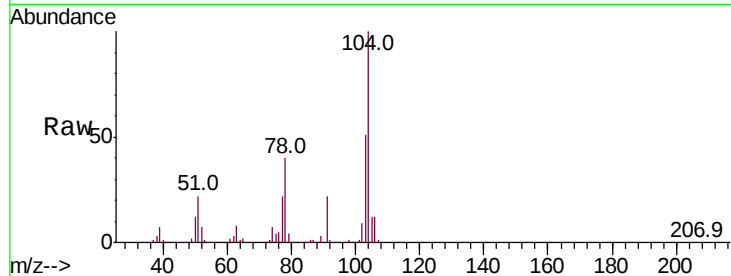
#69
Stvrene
Concen: 19.856 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VX010989.D
Acq: 19 Jul 2019 03:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	47.6	38.5	57.7
103	54.6	44.6	67.0

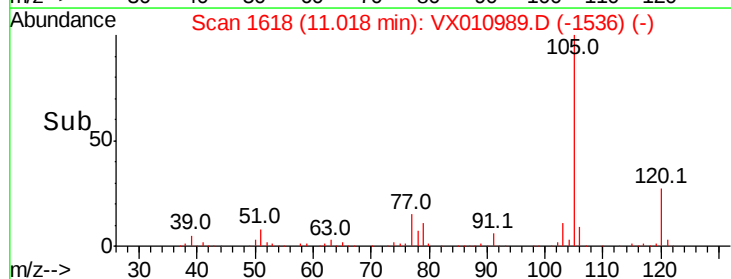
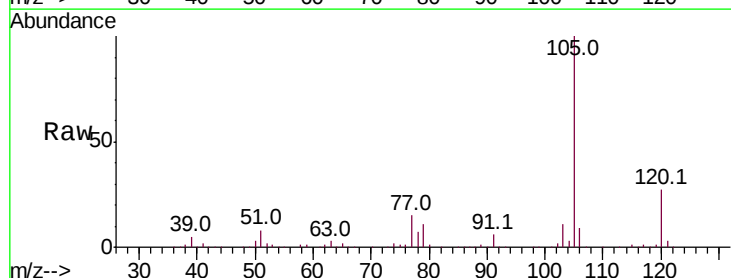
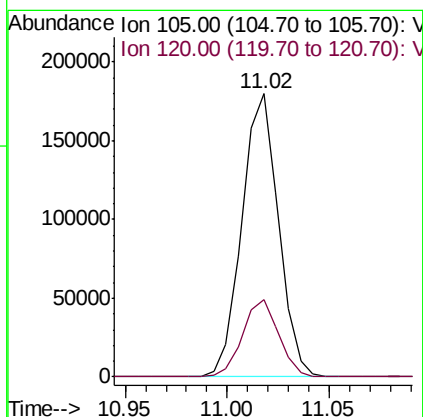
Manual Integrations
APPROVED

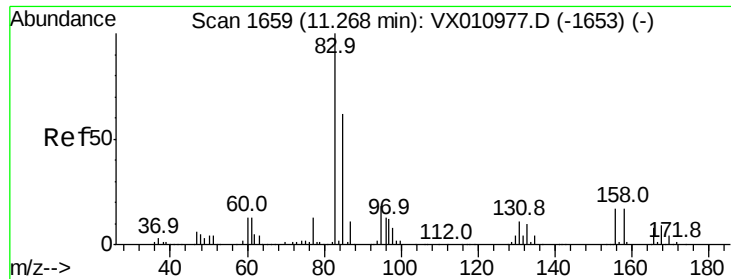
MMDadoda
7/19/2019 9:56:17 AM



#70
Isopropylbenzene
Concen: 19.879 ug/l
RT: 11.02 min Scan# 1618
Delta R.T. -0.00 min
Lab File: VX010989.D
Acq: 19 Jul 2019 03:48

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.0	19.4	36.0





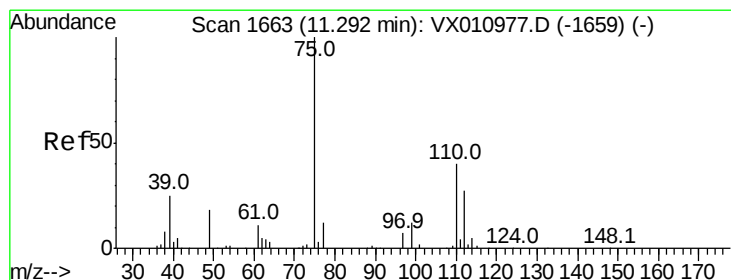
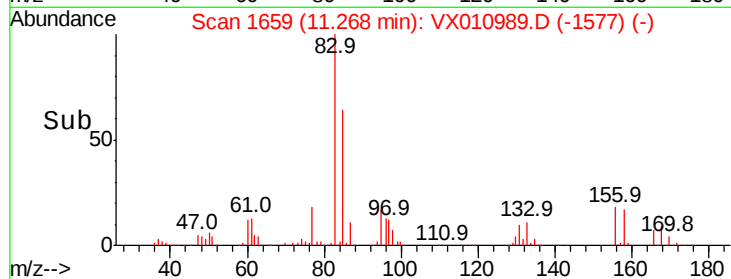
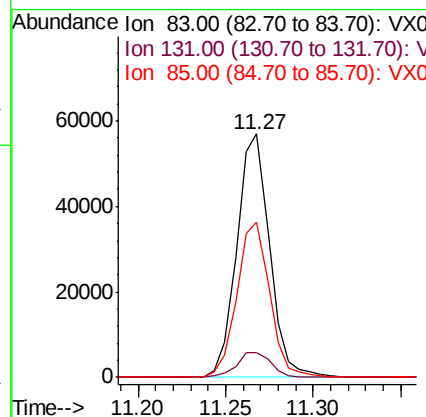
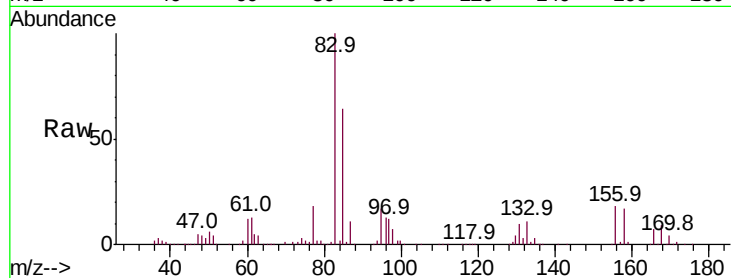
#71
 1,1,2,2-Tetrachloroethane
 Concen: 20.441 ug/l
 RT: 11.27 min Scan# 1659
 Delta R.T. -0.00 min
 Lab File: VX010989.D
 Acq: 19 Jul 2019 03:48

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	83	Resp	74385
Ion Ratio	100	Lower	Upper
83	10.6	5.5	16.4
131	63.9	32.1	96.3

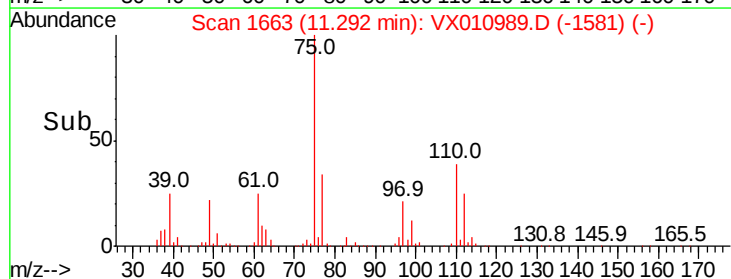
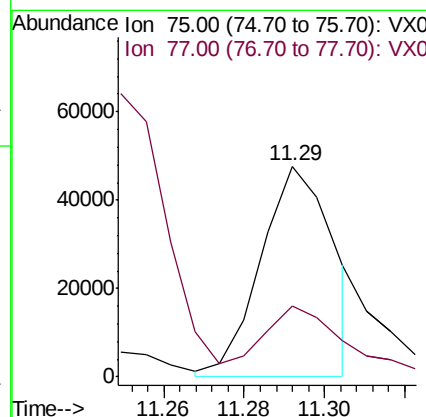
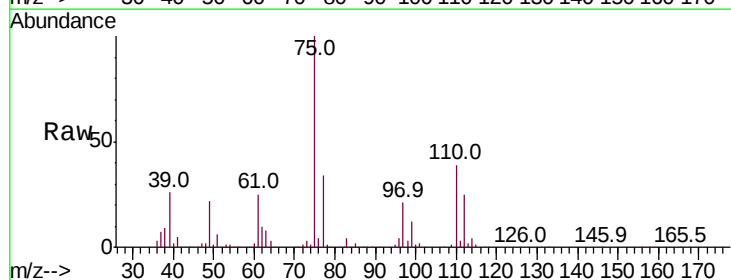
Manual Integrations
 APPROVED

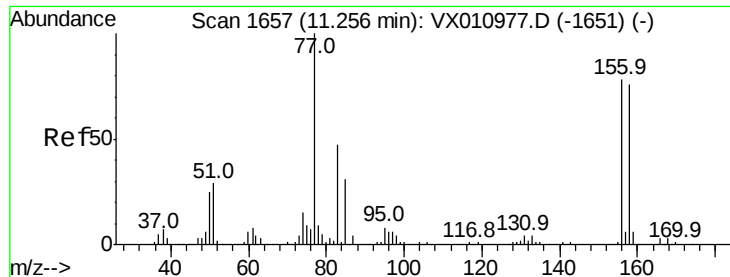
MMDadoda
 7/19/2019 9:56:17 AM



#72
 1,2,3-Trichloropropane
 Concen: 19.558 ug/l m
 RT: 11.29 min Scan# 1663
 Delta R.T. -0.00 min
 Lab File: VX010989.D
 Acq: 19 Jul 2019 03:48

Tgt Ion	75	Resp	59406
Ion Ratio	100	Lower	Upper
75	39.5	0.0	84.0





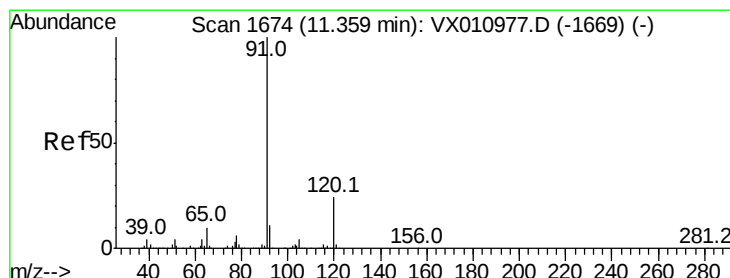
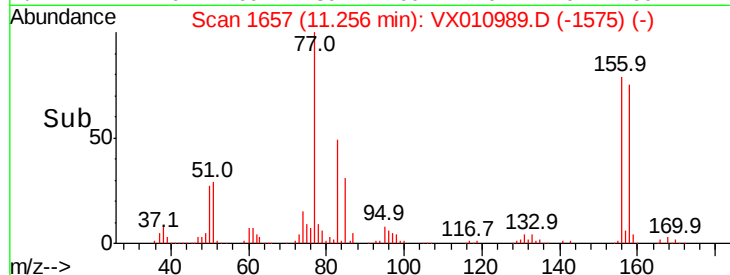
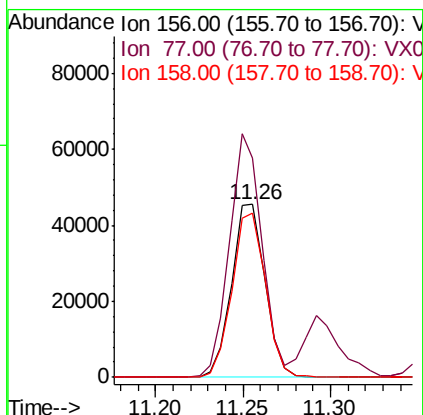
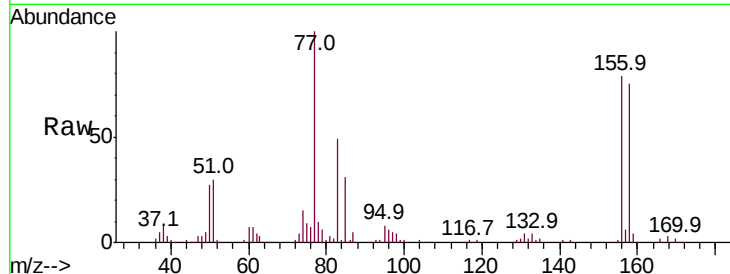
#73
Bromobenzene
Concen: 19.930 ug/l
RT: 11.26 min Scan# 1657
Delta R.T. -0.00 min
Lab File: VX010989.D
Acq: 19 Jul 2019 03:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
156	100		
77	135.9	0.0	275.8
158	94.8	0.0	195.2

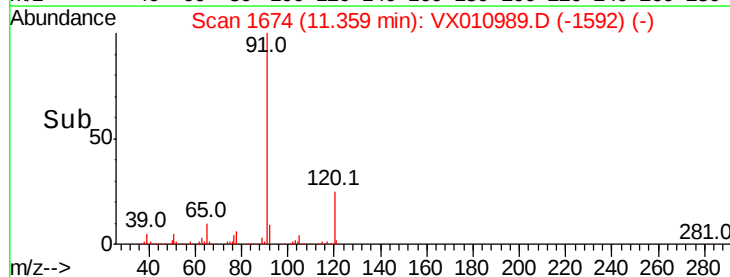
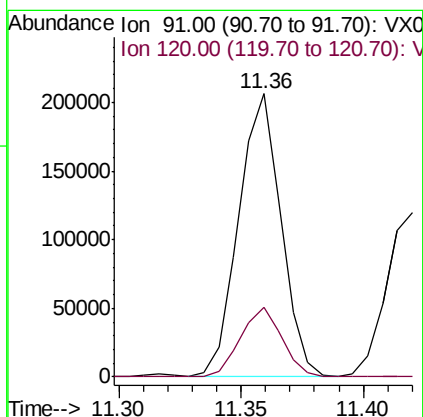
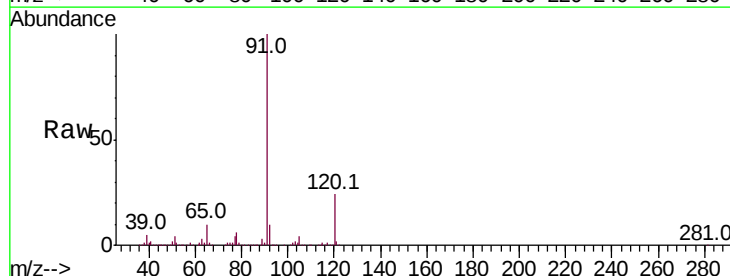
Manual Integrations
APPROVED

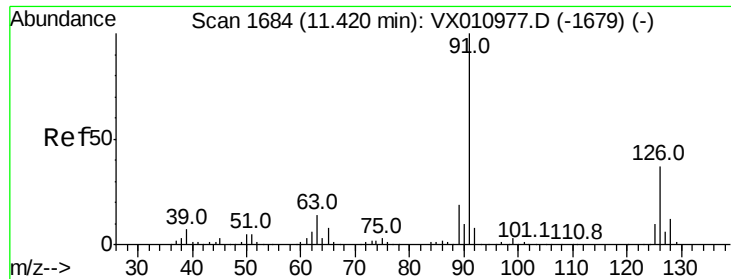
MMDadoda
7/19/2019 9:56:17 AM



#74
n-propylbenzene
Concen: 19.606 ug/l
RT: 11.36 min Scan# 1674
Delta R.T. -0.00 min
Lab File: VX010989.D
Acq: 19 Jul 2019 03:48

Tgt Ion	Ratio	Lower	Upper
91	100		
120	24.0	0.0	47.6





#75

2-Chlorotoluene

Concen: 19.810 ug/l

RT: 11.42 min Scan# 1684

Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC020EC

Tot Ion: 91 Resp: 149863

Ion Ratio Lower Upper

91 100

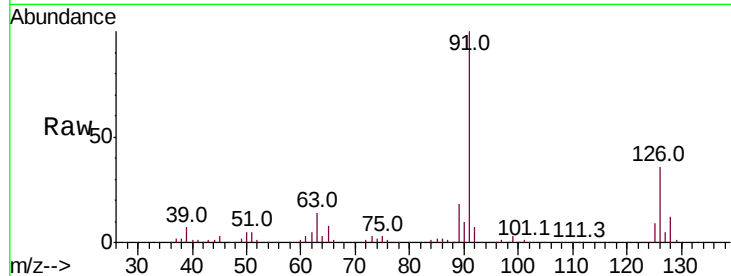
126 35.6 0.0 72.4

Manual Integrations

APPROVED

MMDadoda

7/19/2019 9:56:17 AM



Abundance Ion 91.00 (90.70 to 91.70): VX010977.D (-1679) (-)

Ion 126.00 (125.70 to 126.70): VX010977.D (-1679) (-)

200000

150000

100000

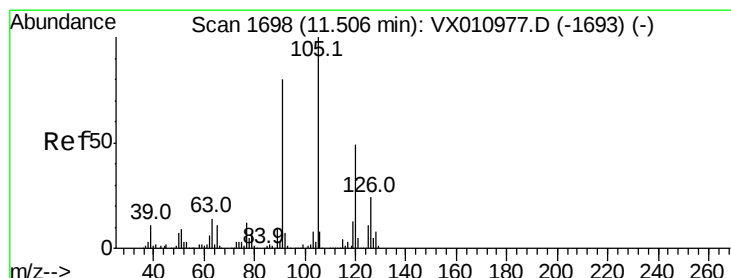
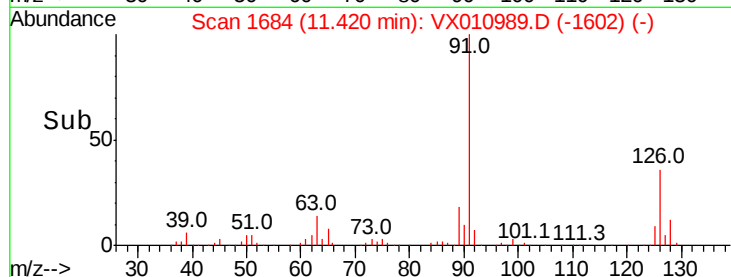
50000

0

11.42

11.45

Time-->



#76

1,3,5-Trimethylbenzene

Concen: 19.587 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX010989.D

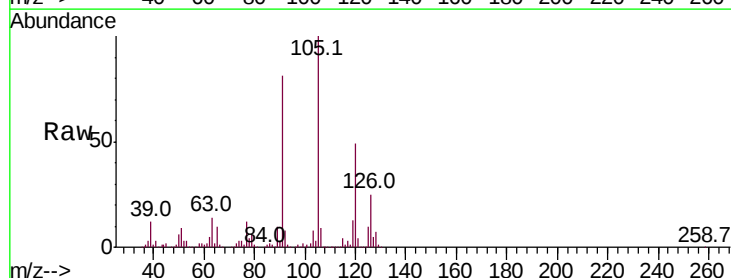
Acq: 19 Jul 2019 03:48

Tgt Ion:105 Resp: 187107

Ion Ratio Lower Upper

105 100

120 49.1 0.0 96.6



Abundance Ion 105.00 (104.70 to 105.70): VX010977.D (-1693) (-)

Ion 120.00 (119.70 to 120.70): VX010977.D (-1693) (-)

150000

100000

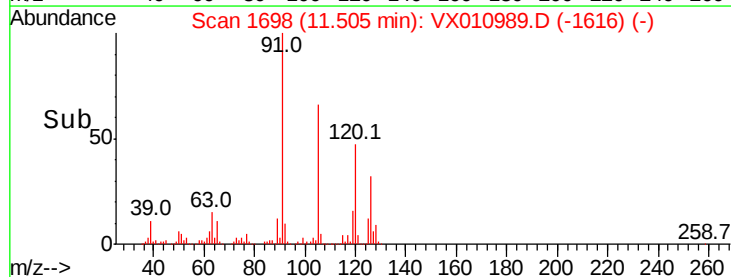
50000

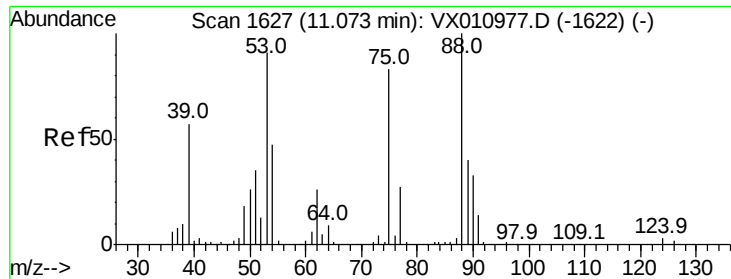
0

11.51

11.55

Time-->





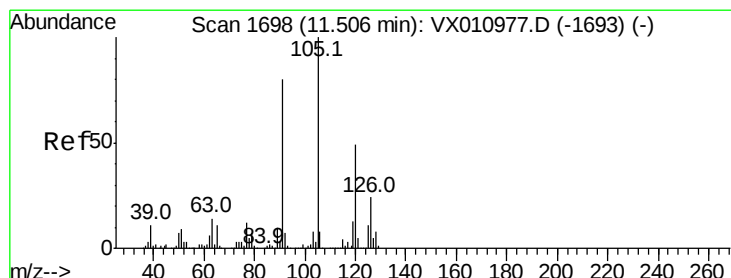
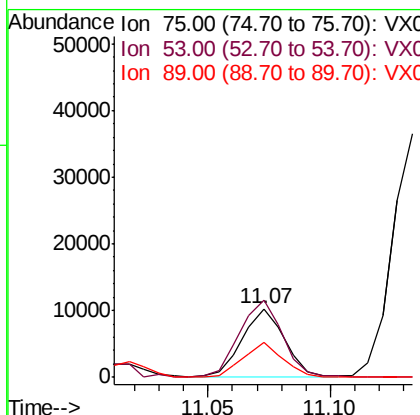
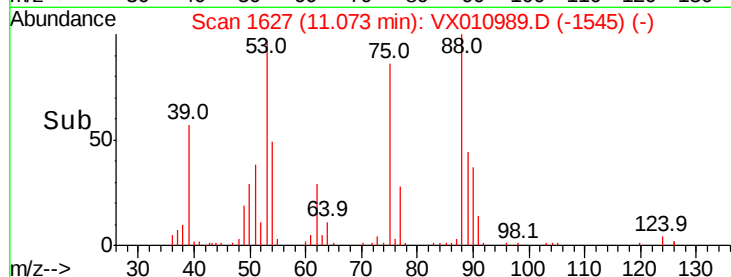
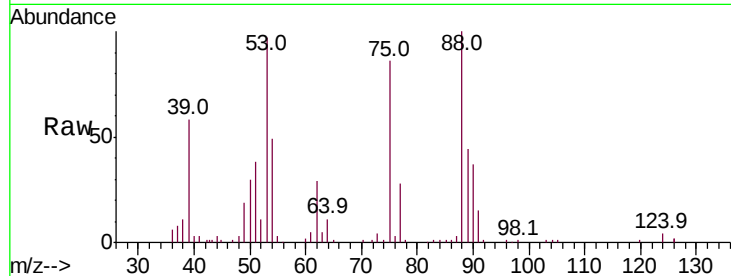
#77
t-1,4-Dichloro-2-butene
Concen: 12.566 ug/l
RT: 11.07 min Scan# 1627
Delta R.T. -0.00 min
Lab File: VX010989.D
Acq: 19 Jul 2019 03:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
75	100		
53	113.0	54.8	164.3
89	51.1	24.6	73.6

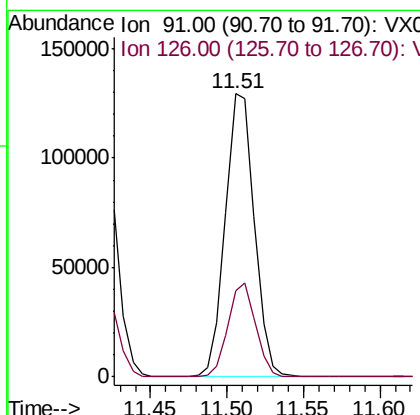
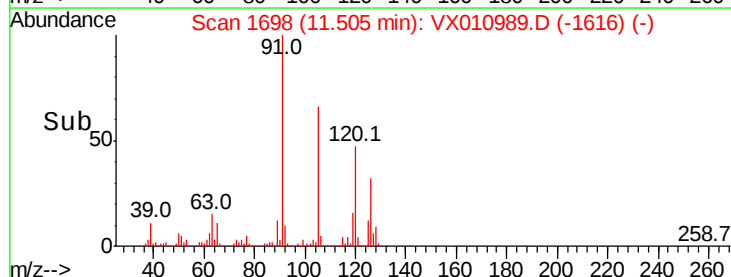
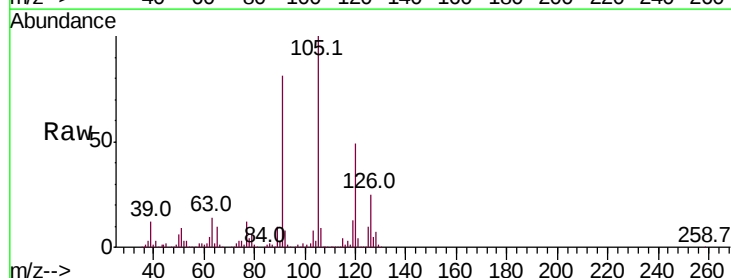
Manual Integrations
APPROVED

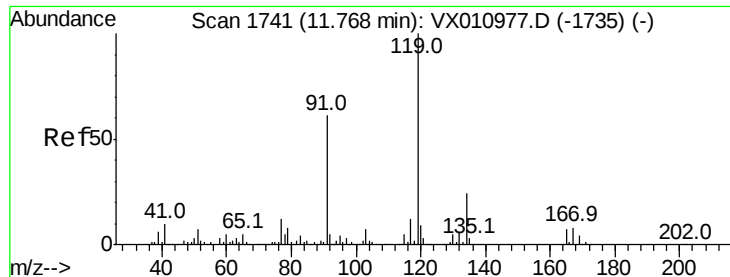
MMDadoda
7/19/2019 9:56:17 AM



#78
4-Chlorotoluene
Concen: 19.652 ug/l
RT: 11.51 min Scan# 1698
Delta R.T. -0.00 min
Lab File: VX010989.D
Acq: 19 Jul 2019 03:48

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.3	0.0	63.6





#79

tert-butylbenzene

Concen: 19.693 ug/l

RT: 11.77 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Instrument :

MSVOA_X

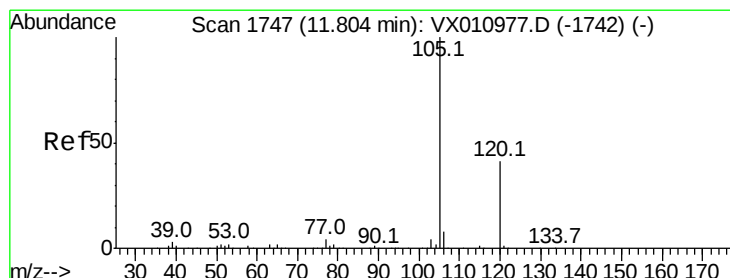
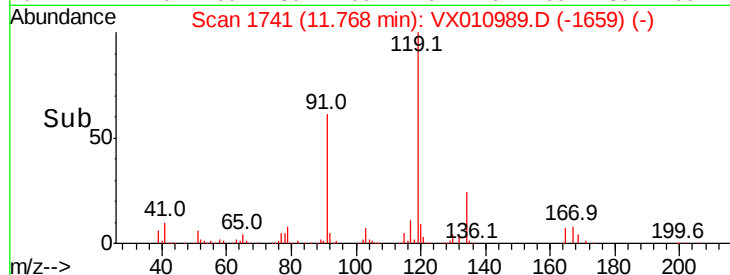
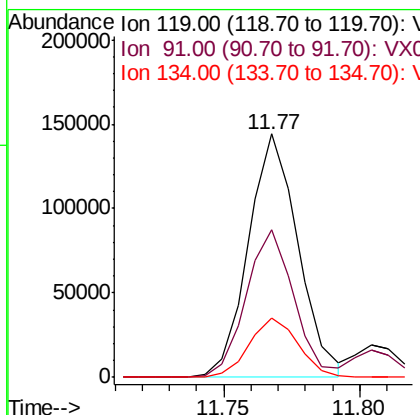
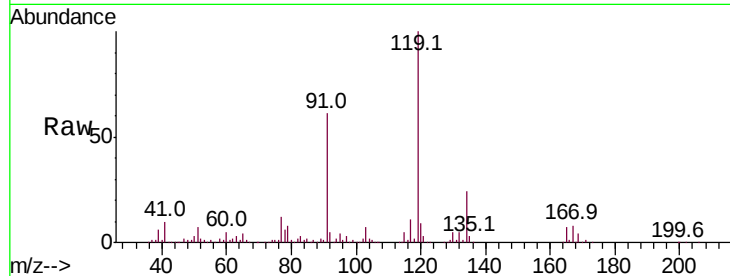
ClientSampleId :

VSTDCCC020EC

Tot Ion:	119	Resp:	182470
Ion Ratio	Lower	Upper	
119	100		
91	58.7	0.0	118.4
134	24.1	0.0	47.4

Manual Integrations
APPROVED

MMDadoda
7/19/2019 9:56:17 AM



#80

1,2,4-Trimethylbenzene

Concen: 19.603 ug/l

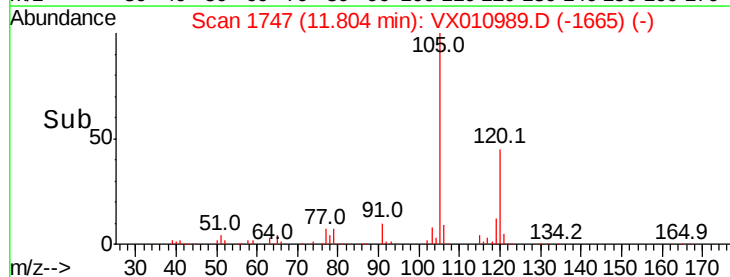
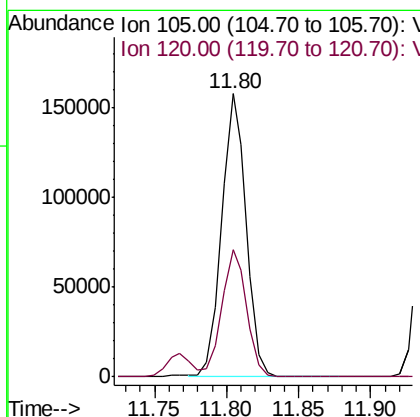
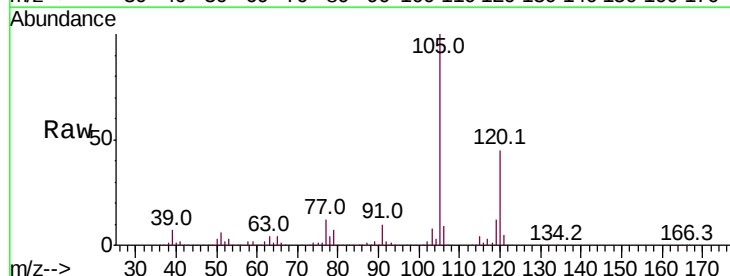
RT: 11.80 min Scan# 1747

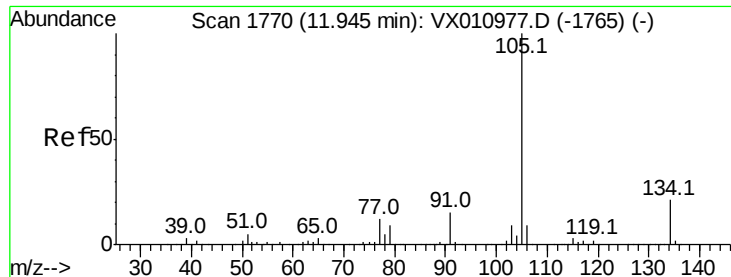
Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Tgt Ion:	105	Resp:	188575
Ion Ratio	Lower	Upper	
105	100		
120	45.7	0.0	91.6





#81

sec-Butylbenzene

Concen: 19.744 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC020EC

Tot Ion:105 Resp: 215645

Ion Ratio Lower Upper

105 100

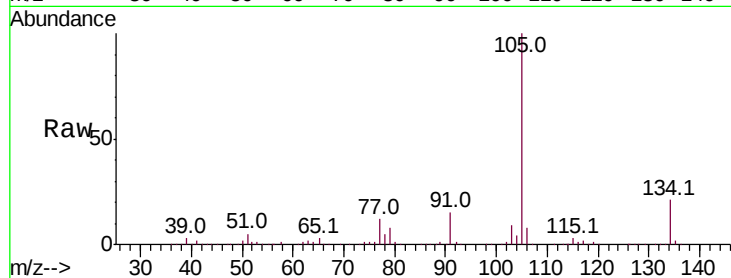
134 21.2 0.0 41.8

Manual Integrations

APPROVED

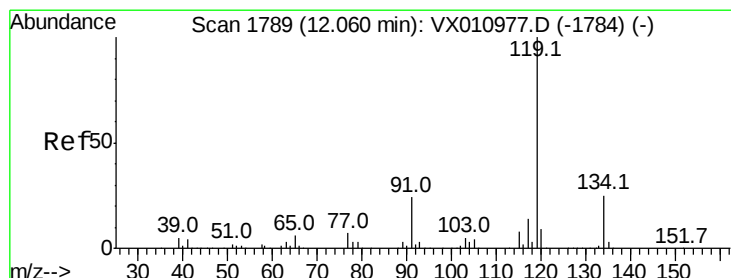
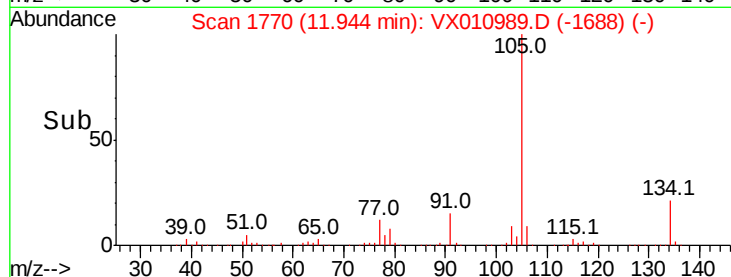
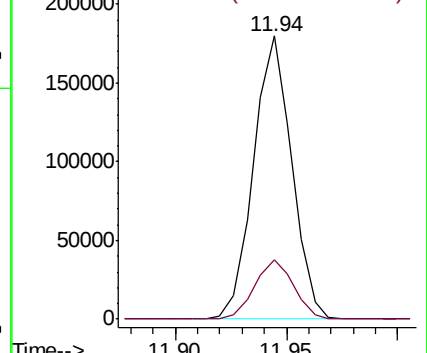
MMDadoda

7/19/2019 9:56:17 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#82

p-Isopropyltoluene

Concen: 19.670 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

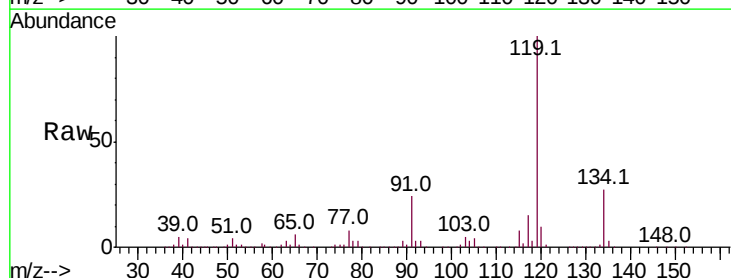
Tgt Ion:119 Resp: 199360

Ion Ratio Lower Upper

119 100

134 26.5 0.0 52.8

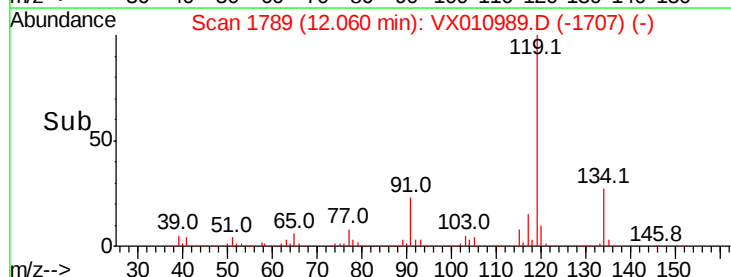
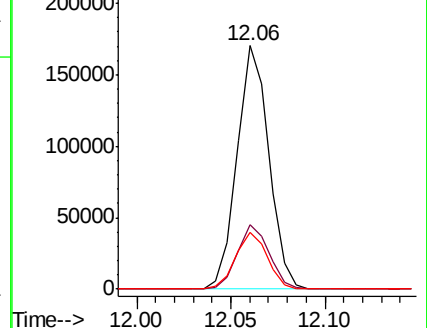
91 23.4 0.0 47.0

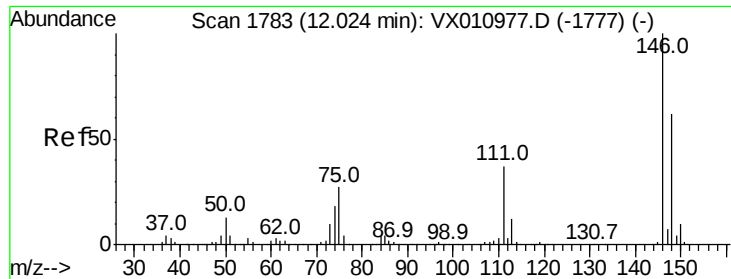


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VX0





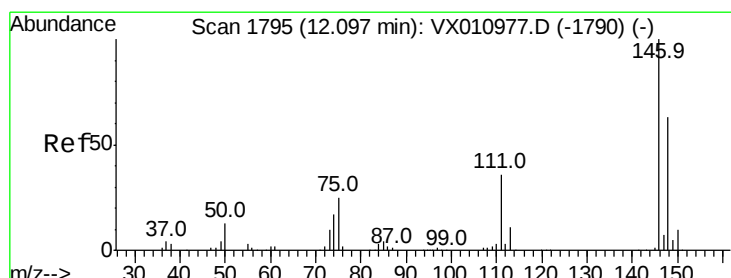
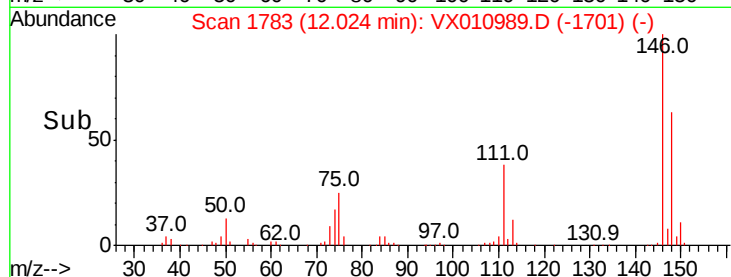
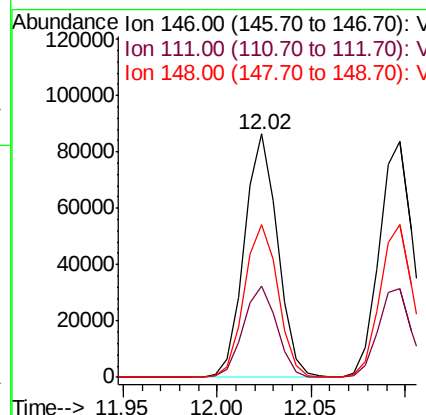
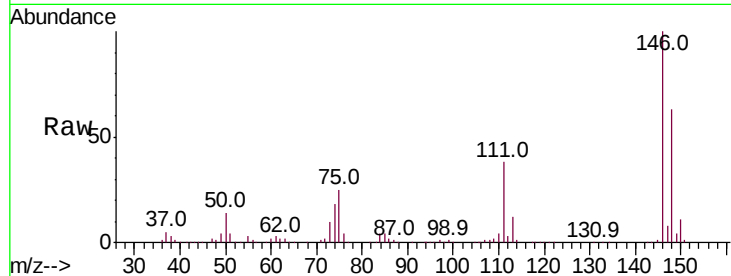
#83
 1,3-Dichlorobenzene
 Concen: 19.612 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. -0.00 min
 Lab File: VX010989.D
 Acq: 19 Jul 2019 03:48

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.2	18.9	56.9
148	63.8	31.4	94.0

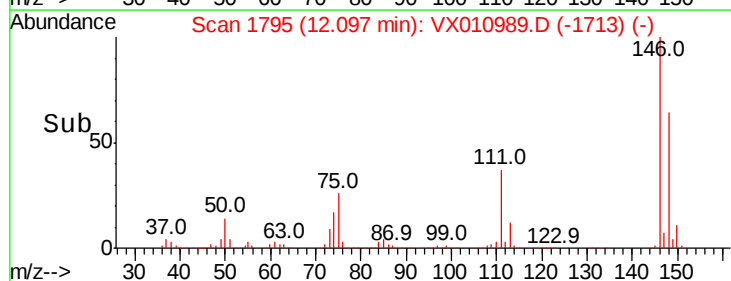
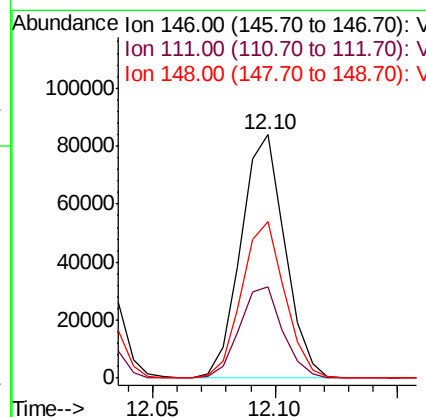
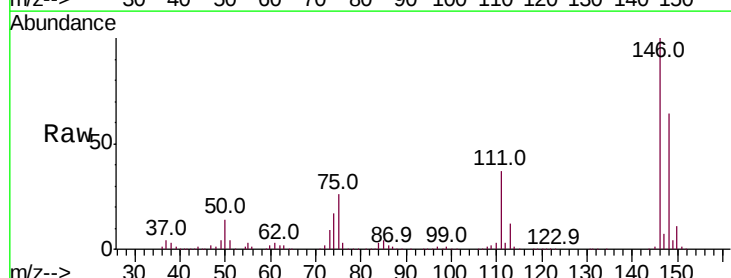
Manual Integrations
 APPROVED

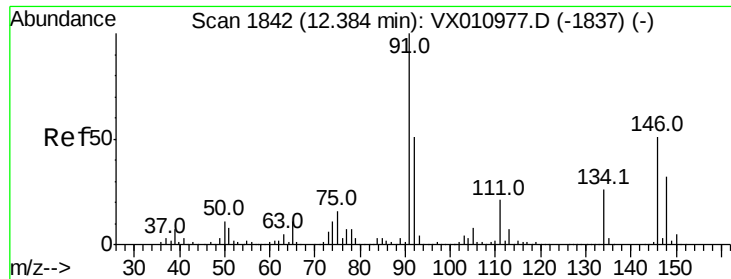
MMDadoda
 7/19/2019 9:56:17 AM



#84
 1,4-Dichlorobenzene
 Concen: 19.597 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. -0.00 min
 Lab File: VX010989.D
 Acq: 19 Jul 2019 03:48

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.0	18.5	55.5
148	63.3	32.0	96.0





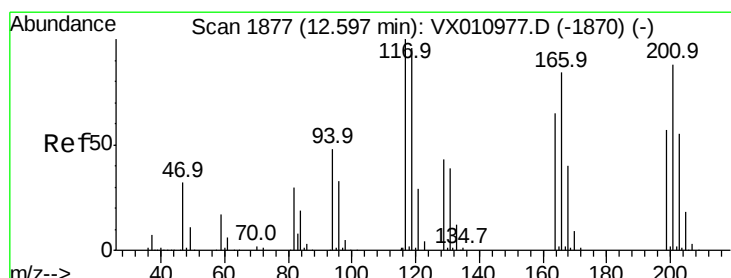
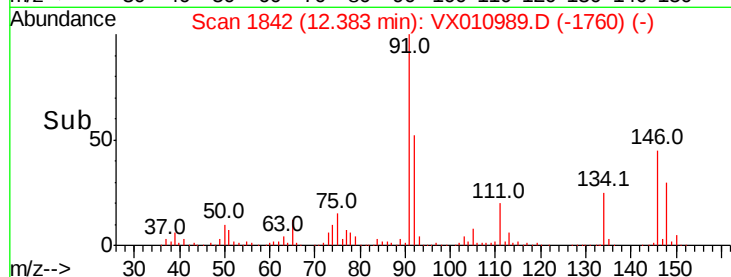
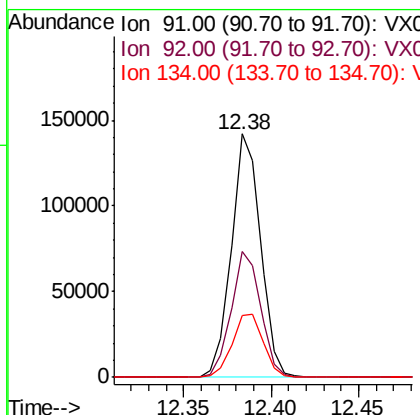
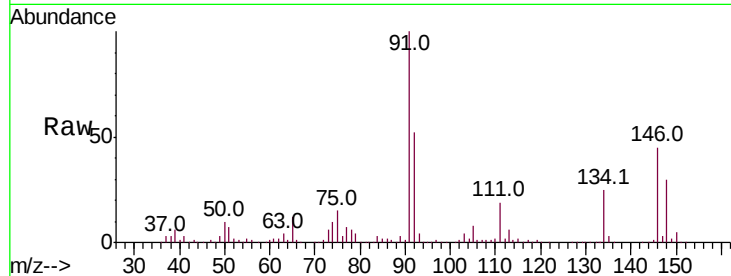
#85
n-Butylbenzene
Concen: 19.110 ug/l
RT: 12.38 min Scan# 1842
Delta R.T. -0.00 min
Lab File: VX010989.D
Acq: 19 Jul 2019 03:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020EC

Tot Ion: 91 Resp: 164933
Ion Ratio Lower Upper
91 100
92 52.1 0.0 103.6
134 27.7 0.0 54.2

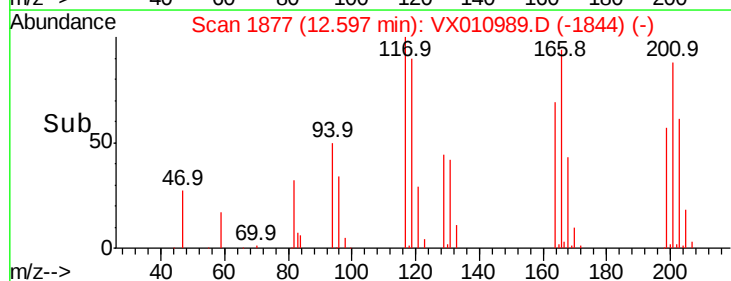
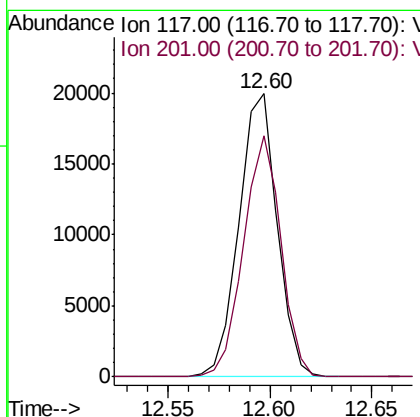
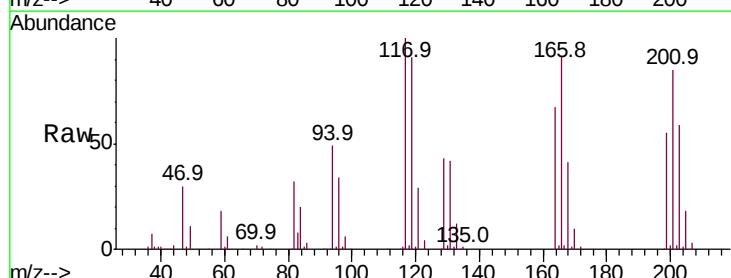
Manual Integrations
APPROVED

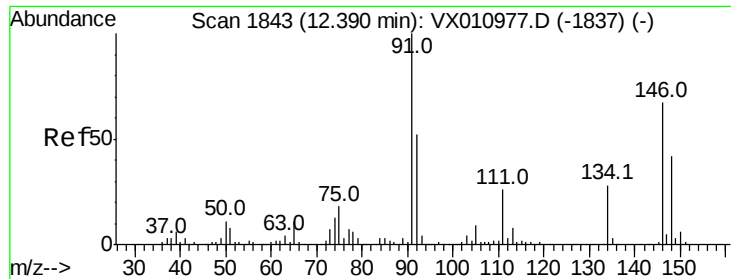
MMDadoda
7/19/2019 9:56:17 AM



#86
Hexachloroethane
Concen: 16.238 ug/l
RT: 12.60 min Scan# 1877
Delta R.T. -0.00 min
Lab File: VX010989.D
Acq: 19 Jul 2019 03:48

Tgt Ion: 117 Resp: 25956
Ion Ratio Lower Upper
117 100
201 83.4 42.1 126.3





#87

1,2-Dichlorobenzene

Concen: 19.943 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Instrument :

MSVOA_X

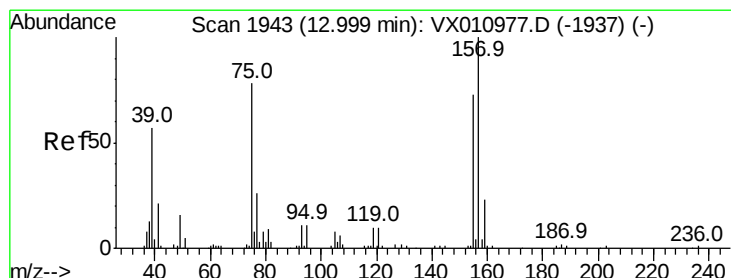
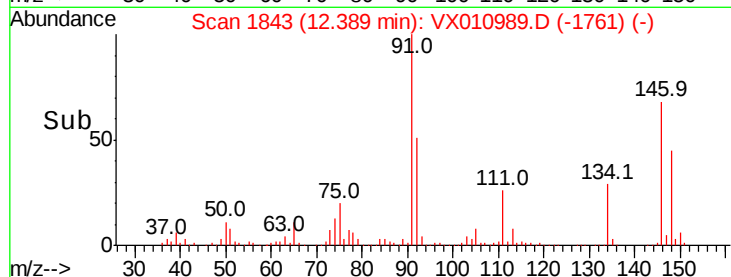
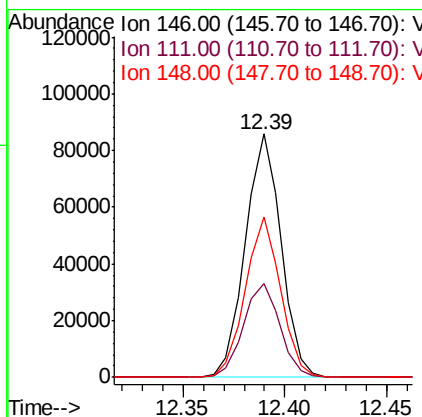
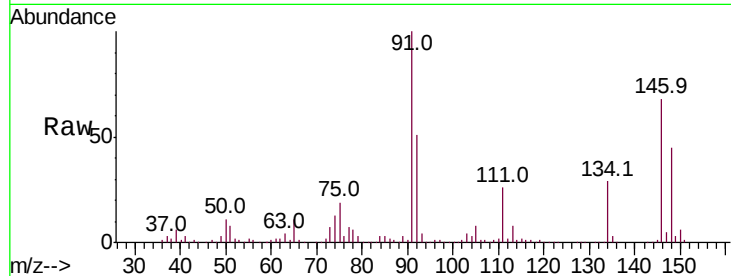
ClientSampleId :

VSTDCCC020EC

Tot Ion:	146	Resp:	104961
Ion Ratio	Lower	Upper	
146	100		
111	38.7	19.5	58.5
148	64.9	31.5	94.5

Manual Integrations
APPROVED

MMDadoda
7/19/2019 9:56:17 AM



#88

1,2-Dibromo-3-Chloropropane

Concen: 17.858 ug/l

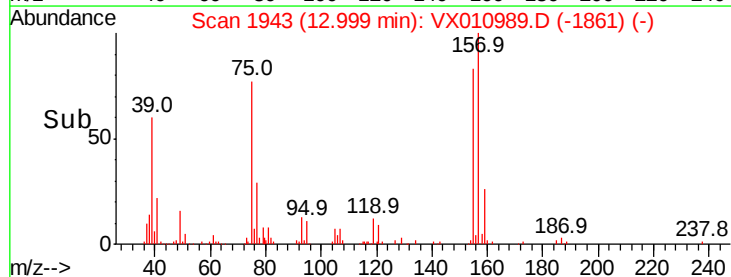
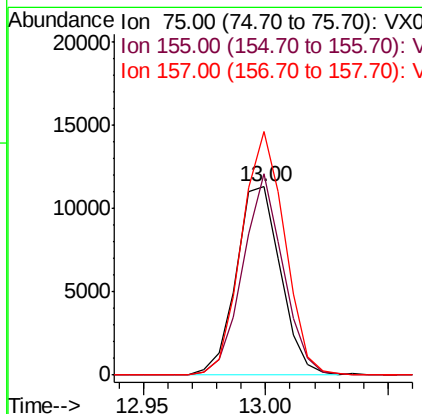
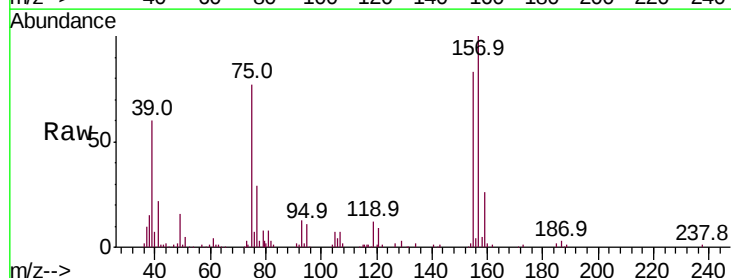
RT: 13.00 min Scan# 1943

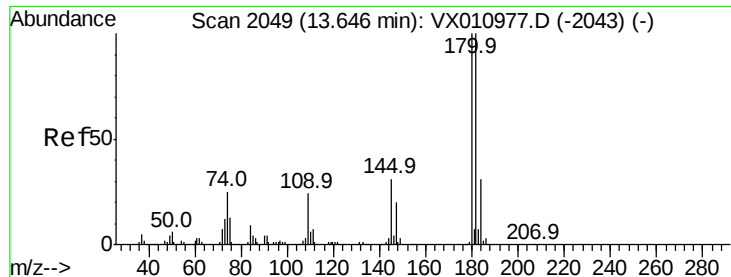
Delta R.T. -0.00 min

Lab File: VX010989.D

Acq: 19 Jul 2019 03:48

Tgt Ion:	75	Resp:	14307
Ion Ratio	Lower	Upper	
75	100		
155	97.3	76.6	115.0
157	125.1	101.0	151.4





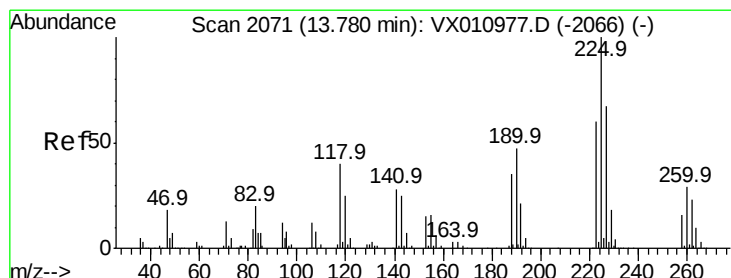
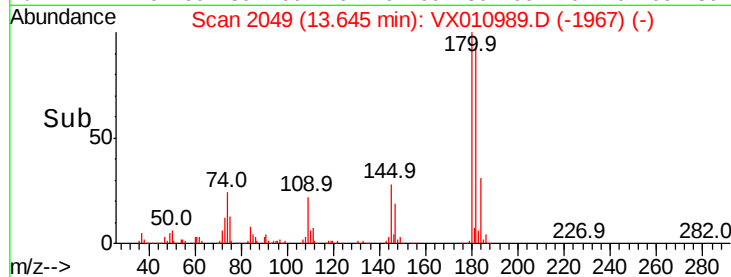
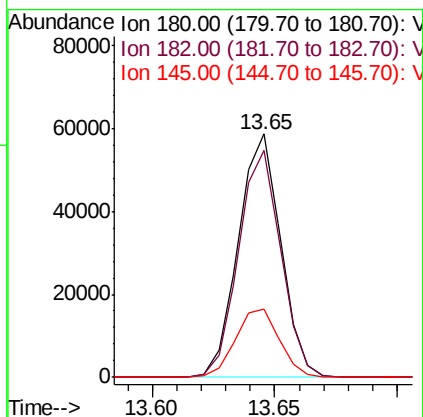
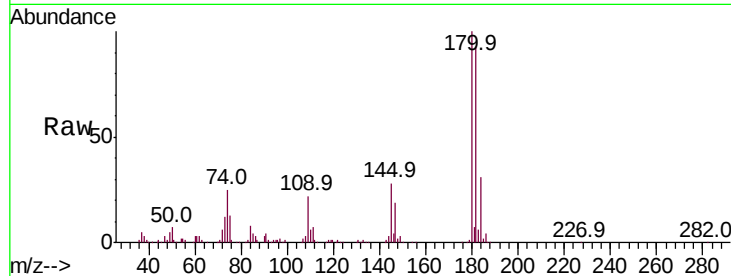
#89
1,2,4-Trichlorobenzene
Concen: 19.469 ug/l
RT: 13.65 min Scan# 2049
Delta R.T. -0.00 min
Lab File: VX010989.D
Acq: 19 Jul 2019 03:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Resp	Lower	Upper
180	100	70675		
182	93.4		77.6	116.4
145	29.5		23.8	35.6

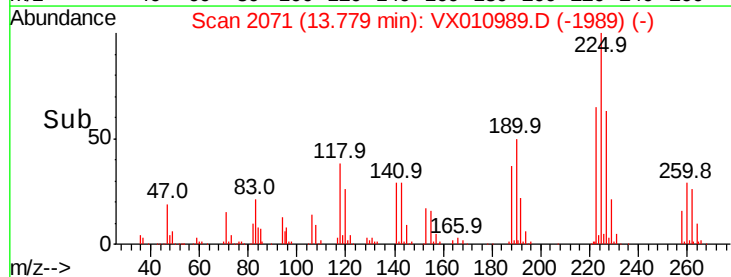
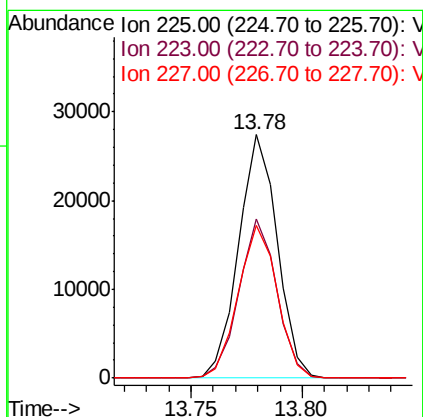
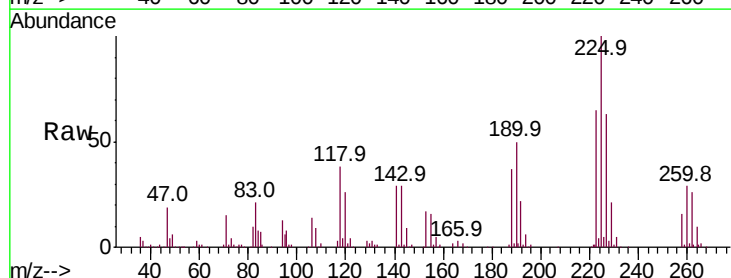
Manual Integrations
APPROVED

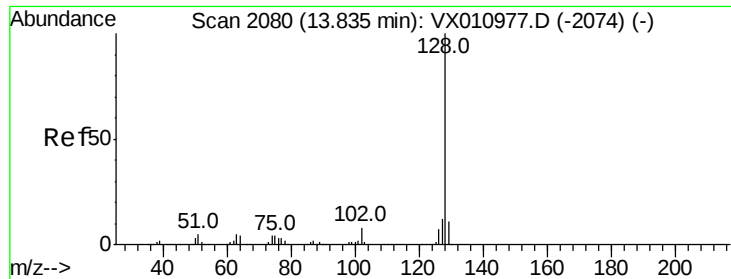
MMDadoda
7/19/2019 9:56:17 AM



#90
Hexachlorobutadiene
Concen: 18.905 ug/l
RT: 13.78 min Scan# 2071
Delta R.T. -0.00 min
Lab File: VX010989.D
Acq: 19 Jul 2019 03:48

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	33182		
223	64.0		0.0	121.4
227	63.6		0.0	126.6





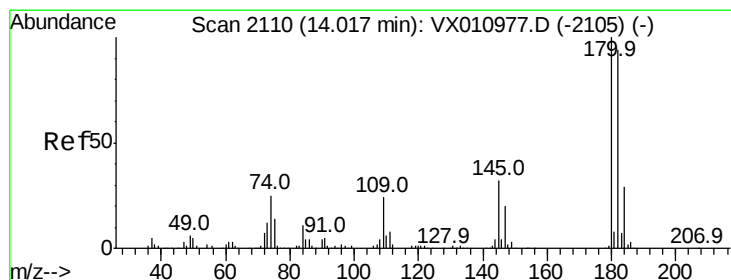
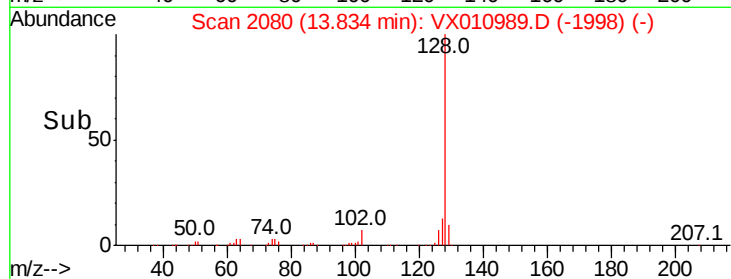
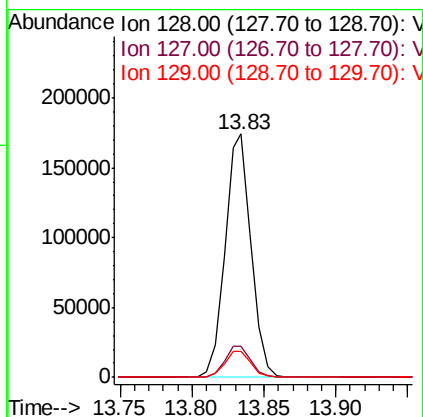
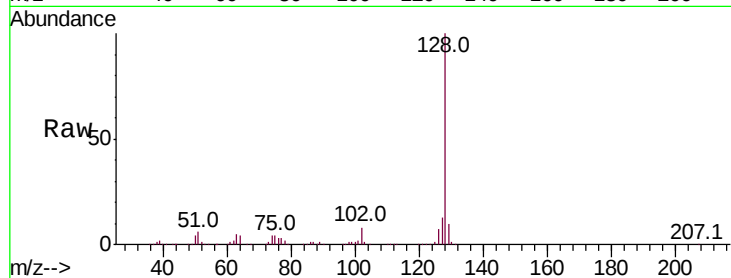
#91
Naphthalene
Concen: 19.879 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX010989.D
Acq: 19 Jul 2019 03:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.2	15.2
129	10.9	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
7/19/2019 9:56:17 AM



#92
1,2,3-Trichlorobenzene
Concen: 19.723 ug/l
RT: 14.02 min Scan# 2110
Delta R.T. -0.00 min
Lab File: VX010989.D
Acq: 19 Jul 2019 03:48

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.1	0.0	190.2
145	31.1	0.0	63.8

