

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090519\
 Data File : VL034122.D
 Acq On : 5 Sep 2019 3:48
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 9/12/2019 5:15:46 AM

Quant Time: Sep 05 10:07:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 05 10:07:31 2019
 QLast Update : Thu Sep 05 09:42:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1209292	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	2199548	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2275907	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.51	95	1866317	10.03	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.18	85	171321	0.859	ppbv	94
3) Chlorodifluoromethane	2.98	51	142240	1.055	ppbv	97
4) Chloromethane	3.13	50	90023	1.068	ppbv #	82
5) Vinyl Chloride	3.25	62	77462	1.009	ppbv	88
6) Bromomethane	3.47	94	38755	1.023	ppbv	85
7) Chloroethane	3.56	64	27157	1.038	ppbv	92
8) Dichlorotetrafluoroethane	3.18	85	171321	1.067	ppbv	100
9) Propene	3.00	41	79020	1.048	ppbv	98
10) Heptane	8.18	43	207420	1.060	ppbv	97
11) Trichlorofluoromethane	3.96	101	170533	1.048	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.51	101	112098	1.030	ppbv	100
13) Ethanol	3.61	45	18141m	1.063	ppbv	
14) Bromoethene	3.75	108	50000	1.063	ppbv	95
15) Acetone	3.86	43	158190	1.085	ppbv	100
16) 1,3-Butadiene	3.33	39	76079	1.031	ppbv	100
17) tert-Butyl alcohol	4.32	59	116157	1.098	ppbv	99
18) 1,1-Dichloroethene	4.31	96	50153	1.010	ppbv	78
19) Isopropyl Alcohol	3.98	45	103948	1.060	ppbv	100
20) Methylene Chloride	4.36	84	52950	1.099	ppbv #	74
21) Allyl Chloride	4.43	41	98787	1.028	ppbv	98
22) trans-1,2-Dichloroethene	4.91	96	50703	1.019	ppbv	91
23) Vinyl Acetate	5.10	43	254106	1.028	ppbv	98
24) 1,1-Dichloroethane	5.04	63	173398	1.057	ppbv	99
25) Ethyl Acetate	5.71	43	357182m	1.117	ppbv	
26) Hexane	5.72	57	156960	1.104	ppbv	96
27) Carbon Disulfide	4.57	76	132252	1.033	ppbv	97
28) Methyl tert-Butyl Ether	5.07	73	221137	1.061	ppbv	97
29) Chloroform	5.79	83	204082	1.064	ppbv	96
30) Cyclohexane	7.18	84	107175	1.042	ppbv	97
31) cis-1,2-Dichloroethene	5.58	61	142058	1.043	ppbv	99
32) 1,1,1-Trichloroethane	6.56	97	184916m	1.026	ppbv	
34) 2-Butanone	5.28	43	233599	1.105	ppbv	97
35) Carbon Tetrachloride	7.08	117	175281	1.031	ppbv	93
36) Benzene	6.94	78	276942	1.102	ppbv #	91
37) 1,2-Dichloroethane	6.36	62	169726m	1.102	ppbv	
38) Trichloroethene	7.89	130	87965	0.946	ppbv	92
39) 1,2-Dichloropropane	7.68	63	116227	1.080	ppbv	97
40) 1,4-Dioxane	7.91	88	46950m	1.182	ppbv	
41) Tetrahydrofuran	6.11	42	137738m	1.091	ppbv	
42) Bromodichloromethane	7.86	83	219953	1.094	ppbv	95
43) Methyl Methacrylate	8.08	69	108943	1.052	ppbv	91

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090519\
 Data File : VL034122.D
 Acq On : 5 Sep 2019 3:48
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

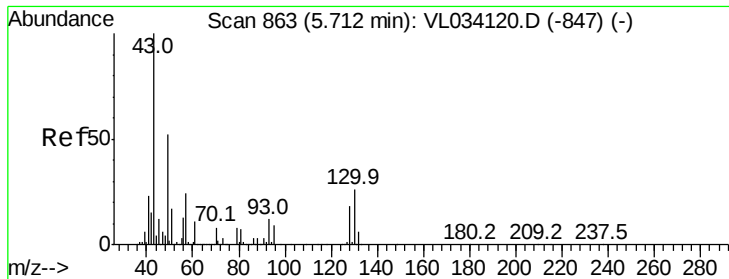
Manual Integrations
 APPROVED

MMDadoda
 9/12/2019 5:15:46 AM

Quant Time: Sep 05 10:07:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 05 10:07:31 2019
 QLast Update : Thu Sep 05 09:42:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.93	57	522853	1.128	ppbv	96
45) t-1,3-Dichloropropene	9.35	75	119415m	0.982	ppbv	
46) cis-1,3-Dichloropropene	8.77	75	156479	1.057	ppbv	97
47) 1,1,2-Trichloroethane	9.55	97	103297	1.055	ppbv	94
48) Dibromochloromethane	10.38	129	155069	1.060	ppbv	94
49) Bromoform	13.13	173	135730	1.060	ppbv	97
50) 4-Methyl-2-Pentanone	8.82	43	366473	1.136	ppbv	96
51) 2-Hexanone	10.22	43	306637	1.110	ppbv #	97
52) Tetrachloroethene	11.31	164	88867m	1.010	ppbv	
53) Toluene	9.89	91	300317	1.080	ppbv	98
54) 1,2-Dibromoethane	10.69	107	156063	1.072	ppbv	93
56) 1,1,1,2-Tetrachloroethane	12.21	131	109000	1.117	ppbv #	1
57) Chlorobenzene	12.24	112	220168	1.125	ppbv #	95
58) Ethyl Benzene	12.80	91	427915	1.148	ppbv	95
59) m/p-Xylene	13.05	91	713069m	2.348	ppbv	
60) o-Xylene	13.79	91	347396	1.146	ppbv	97
61) Styrene	13.62	104	251103	1.108	ppbv	100
62) Isopropylbenzene	14.76	105	464939m	1.179	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.77	83	254843	1.027	ppbv	99
64) n-propylbenzene	15.65	120	113356	1.131	ppbv	79
65) tert-Butylbenzene	16.84	119	402251	1.184	ppbv	99
66) Benzyl Chloride	17.09	91	107890	0.862	ppbv #	80
67) sec-Butylbenzene	17.39	105	584166	1.194	ppbv	95
69) p-Isopropyltoluene	17.75	119	457236	1.170	ppbv	98
70) n-Butylbenzene	18.65	91	528318	1.185	ppbv	95
71) 2-Chlorotoluene	15.55	91	372965	1.157	ppbv	98
72) 4-Ethyltoluene	15.93	105	391853	1.145	ppbv	98
73) 1,3,5-Trimethylbenzene	16.09	105	387719	1.166	ppbv	96
74) 1,2,4-Trimethylbenzene	16.86	105	404037	1.180	ppbv	94
75) 1,3-Dichlorobenzene	17.09	146	207838	1.146	ppbv	98
76) 1,4-Dichlorobenzene	17.24	146	220218	1.152	ppbv	98
77) 1,2-Dichlorobenzene	17.92	146	212010	1.144	ppbv	98
78) Hexachloro-1,3-Butadiene	23.48	225	147876m	1.170	ppbv	
79) Naphthalene	22.33	128	347830	1.125	ppbv #	95
80) Naphthalene, 2-methyl-	25.06	142	78186	0.728	ppbv	96
81) 1,2,4-Trichlorobenzene	22.06	180	191367	1.136	ppbv	97

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



#1

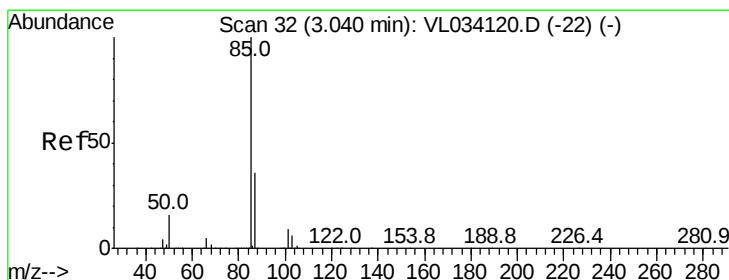
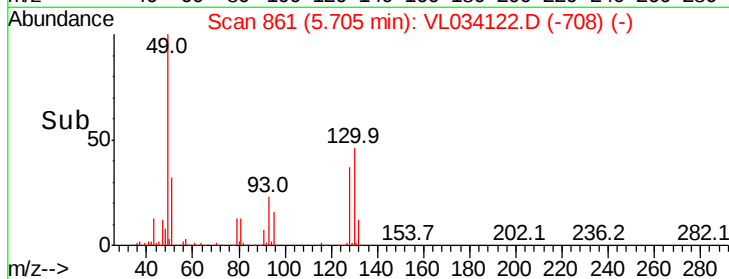
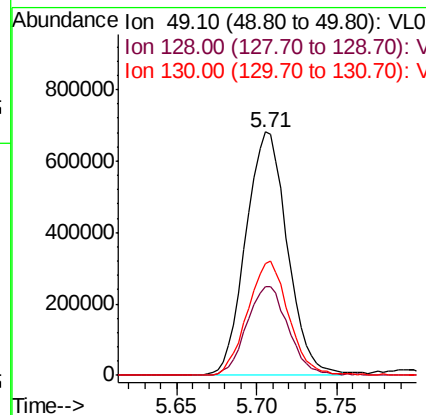
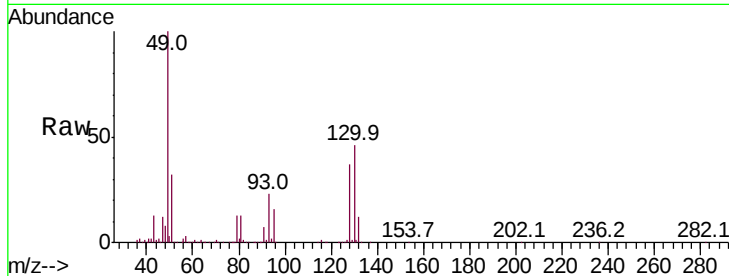
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.71 min Scan# 861
Delta R.T. -0.01 min
Lab File: VL034122.D
Acq: 5 Sep 2019 3:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 49 Resp: 1209292
Ion Ratio Lower Upper
49 100
128 36.7 18.4 55.0
130 46.9 23.5 70.6

Manual Integrations
APPROVED

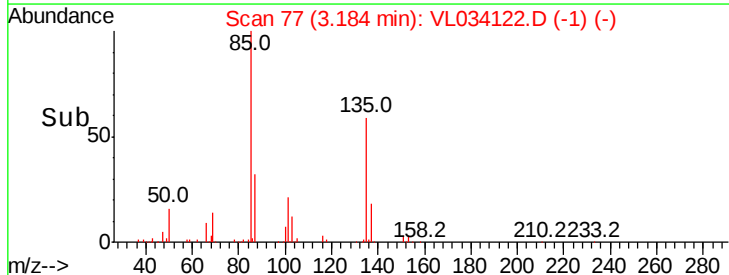
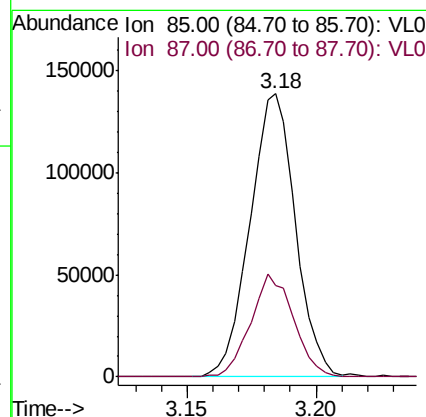
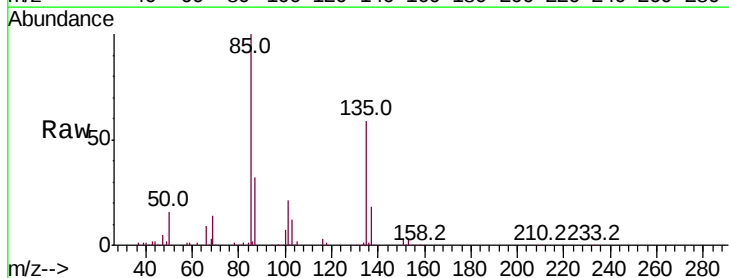
MMDadoda
9/12/2019 5:15:46 AM

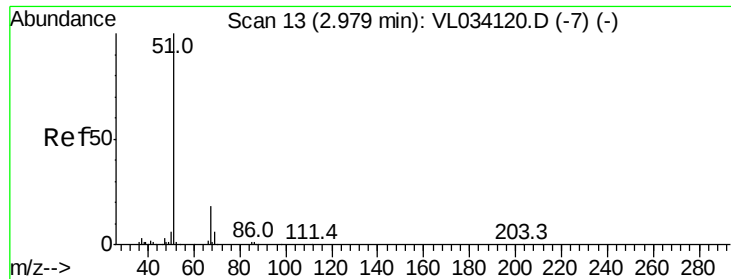


#2

Dichlorodifluoromethane
Concen: 0.859 ppbv
RT: 3.18 min Scan# 77
Delta R.T. 0.14 min
Lab File: VL034122.D
Acq: 5 Sep 2019 3:48

Tgt Ion: 85 Resp: 171321
Ion Ratio Lower Upper
85 100
87 32.2 28.6 43.0





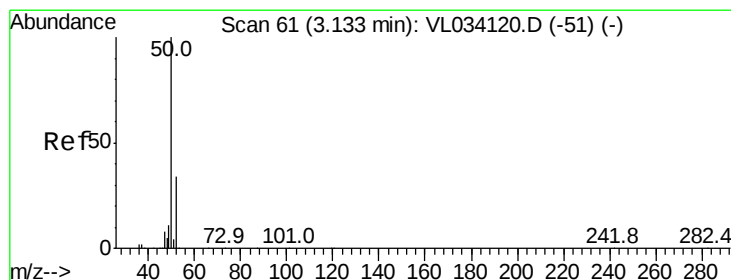
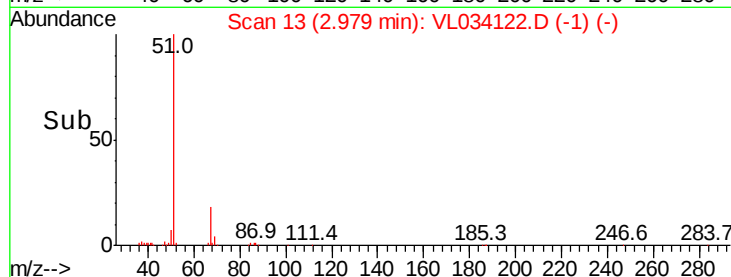
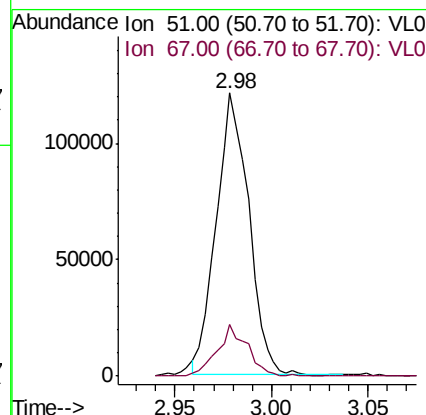
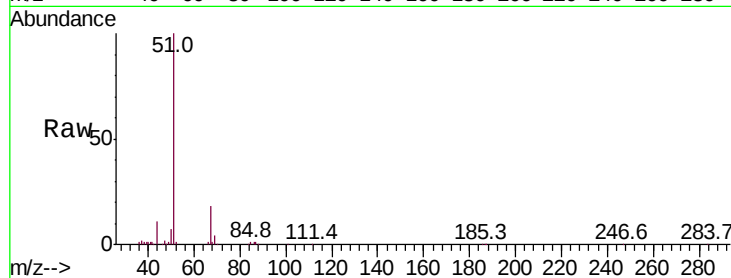
#3
Chlorodifluoromethane
Concen: 1.055 ppbv
RT: 2.98 min Scan# 13
Delta R.T. -0.00 min
Lab File: VL034122.D
Acq: 5 Sep 2019 3:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
51	100		
67	16.7	14.2	21.4

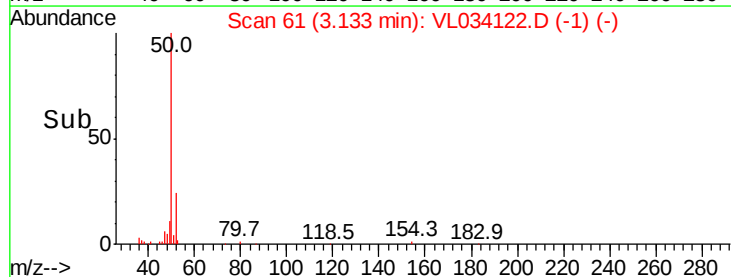
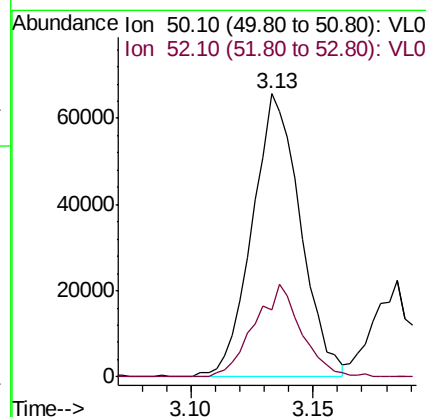
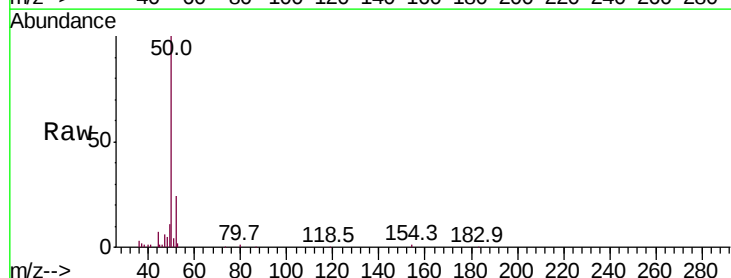
Manual Integrations
APPROVED

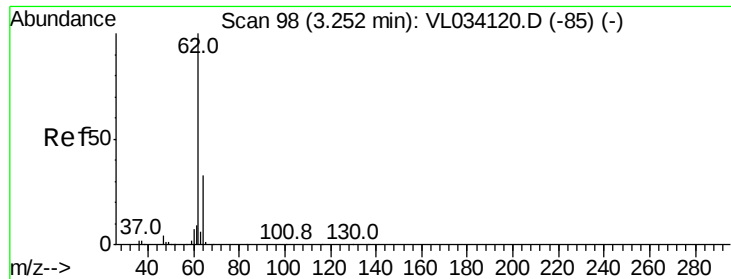
MMDadoda
9/12/2019 5:15:46 AM



#4
Chloromethane
Concen: 1.068 ppbv
RT: 3.13 min Scan# 61
Delta R.T. -0.00 min
Lab File: VL034122.D
Acq: 5 Sep 2019 3:48

Tgt Ion	Ratio	Lower	Upper
50	100		
52	23.7	27.4	41.2#





#5

Vinyl Chloride

Concen: 1.009 ppbv

RT: 3.25 min Scan# 98

Delta R.T. -0.00 min

Lab File: VL034122.D

Acq: 5 Sep 2019 3:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 62 Resp: 77462

Ion Ratio Lower Upper

62 100

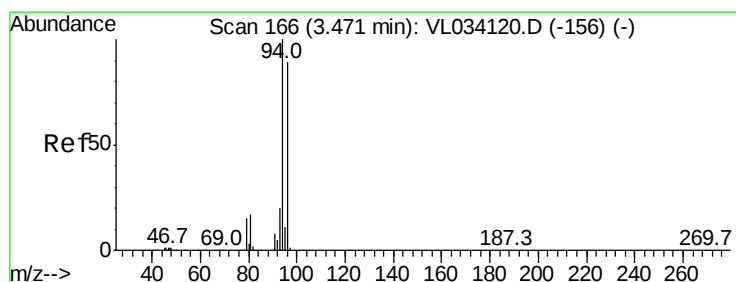
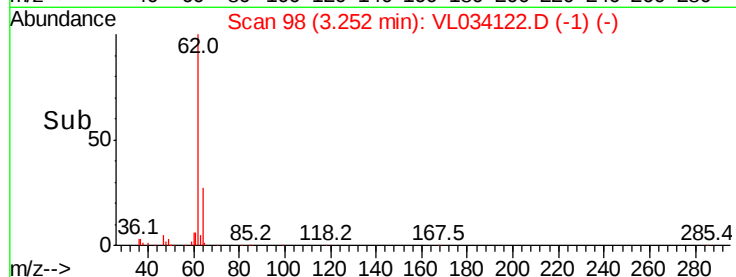
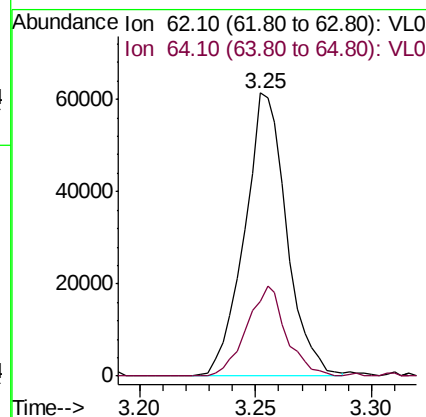
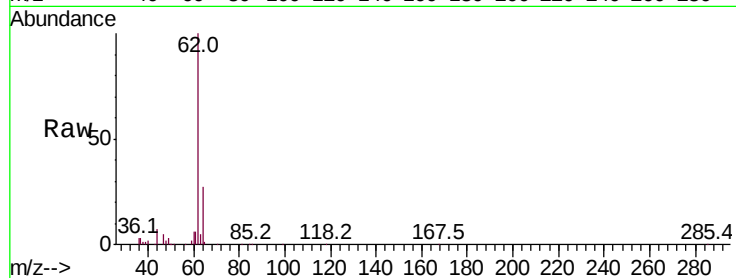
64 26.6 26.6 39.8

Manual Integrations

APPROVED

MMDadoda

9/12/2019 5:15:46 AM



#6

Bromomethane

Concen: 1.023 ppbv

RT: 3.47 min Scan# 167

Delta R.T. 0.00 min

Lab File: VL034122.D

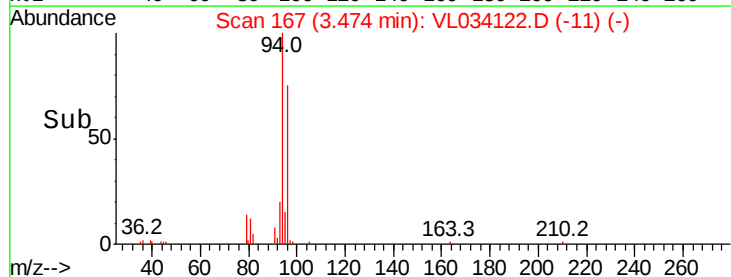
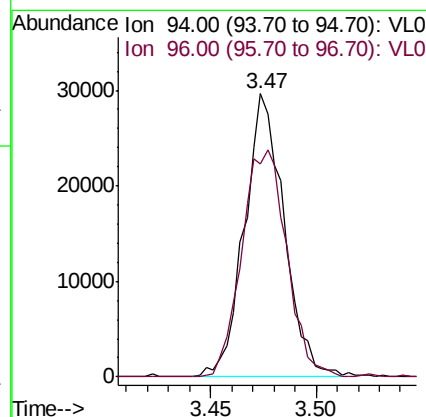
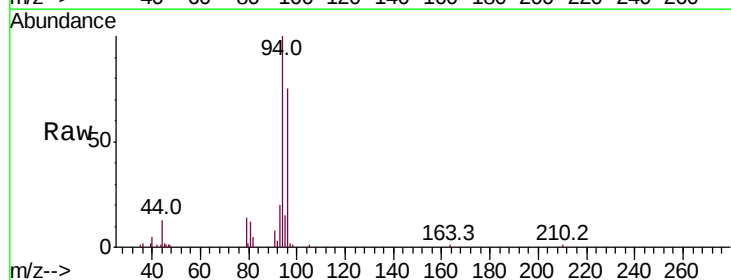
Acq: 5 Sep 2019 3:48

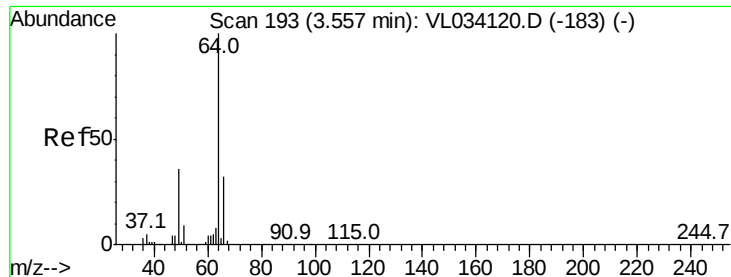
Tgt Ion: 94 Resp: 38755

Ion Ratio Lower Upper

94 100

96 75.4 71.4 107.0





#7

Chloroethane

Concen: 1.038 ppbv

RT: 3.56 min Scan# 194

Delta R.T. 0.00 min

Lab File: VL034122.D

Acq: 5 Sep 2019 3:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 64 Resp: 27157

Ion Ratio Lower Upper

64 100

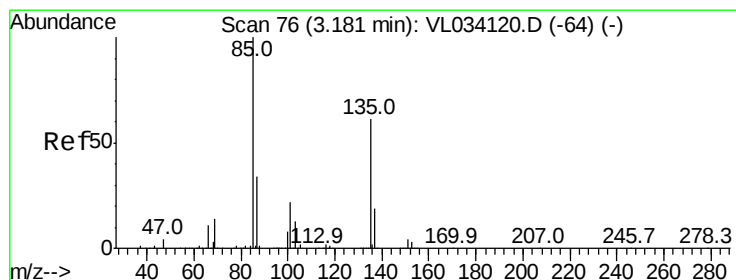
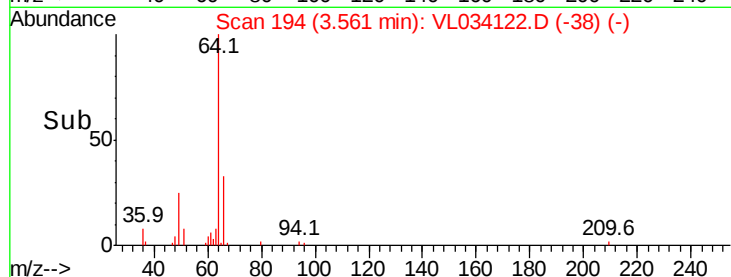
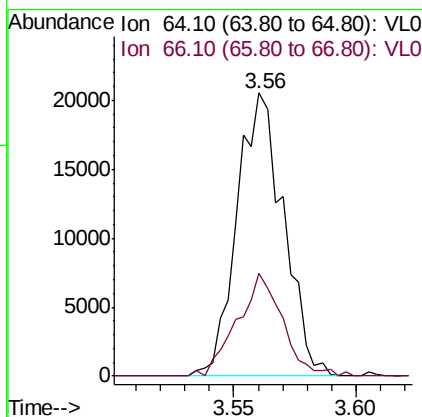
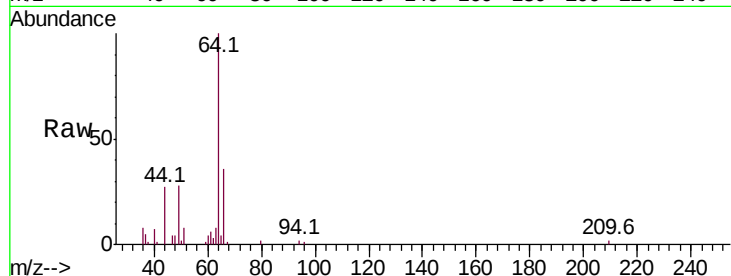
66 36.2 25.4 38.2

Manual Integrations

APPROVED

MMDadoda

9/12/2019 5:15:46 AM



#8

Dichlorotetrafluoroethane

Concen: 1.067 ppbv

RT: 3.18 min Scan# 77

Delta R.T. 0.00 min

Lab File: VL034122.D

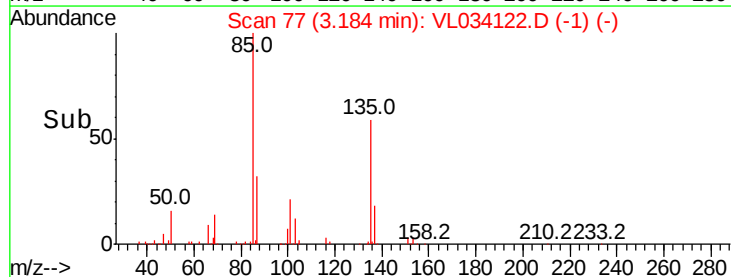
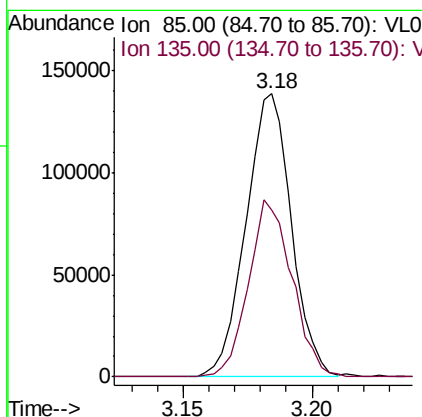
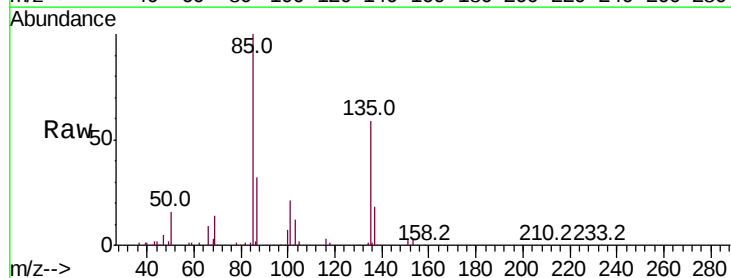
Acq: 5 Sep 2019 3:48

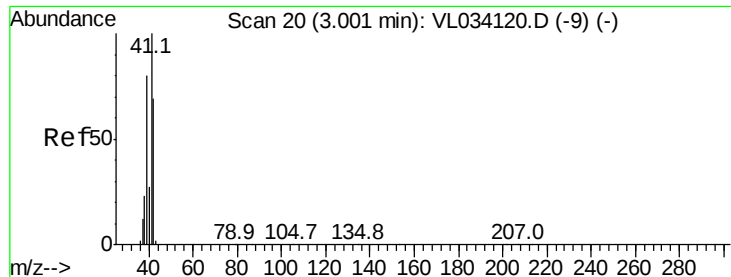
Tgt Ion: 85 Resp: 171321

Ion Ratio Lower Upper

85 100

135 60.1 48.0 72.0





#9

Propene

Concen: 1.048 ppbv

RT: 3.00 min Scan# 20

Delta R.T. -0.00 min

Lab File: VL034122.D

Acq: 5 Sep 2019 3:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 41 Resp: 79020

Ion Ratio Lower Upper

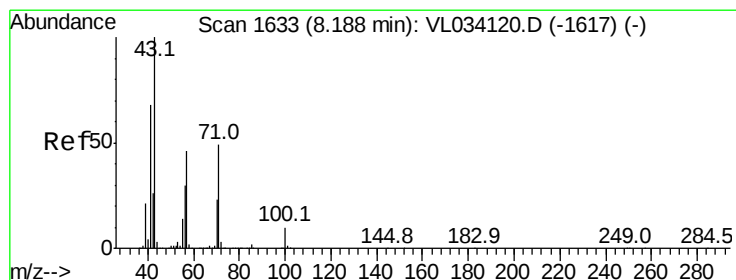
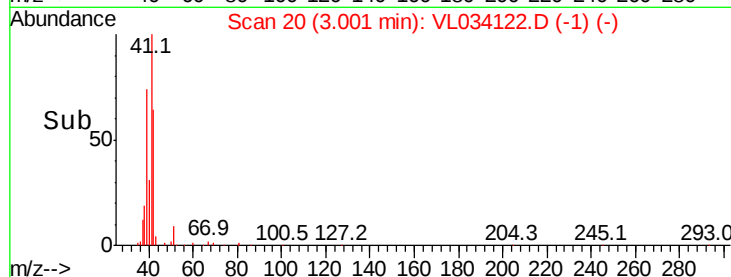
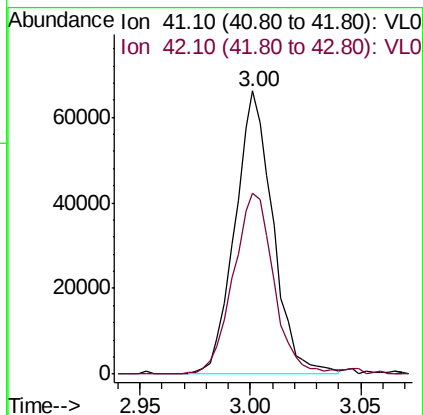
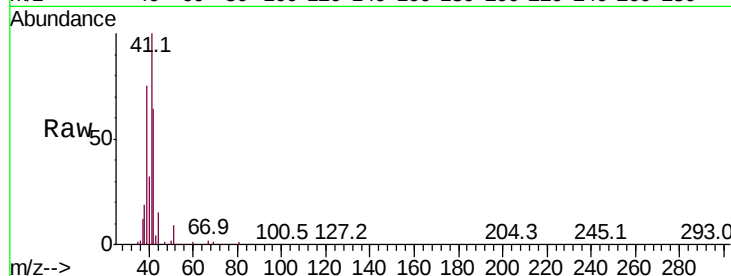
41 100

42 69.8 54.6 81.8

Manual Integrations
APPROVED

MMDadoda

9/12/2019 5:15:46 AM



#10

Heptane

Concen: 1.060 ppbv

RT: 8.18 min Scan# 1632

Delta R.T. -0.00 min

Lab File: VL034122.D

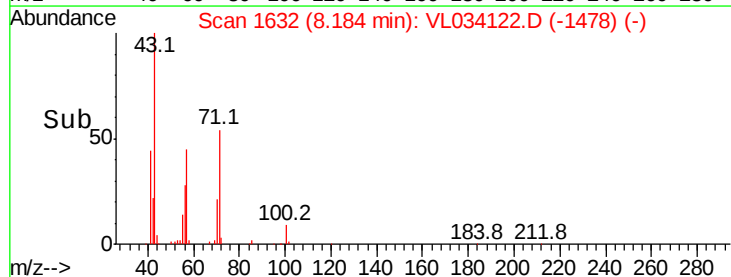
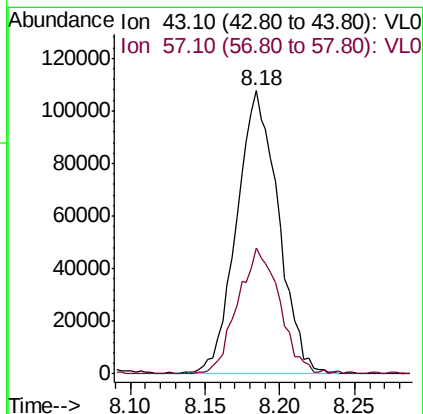
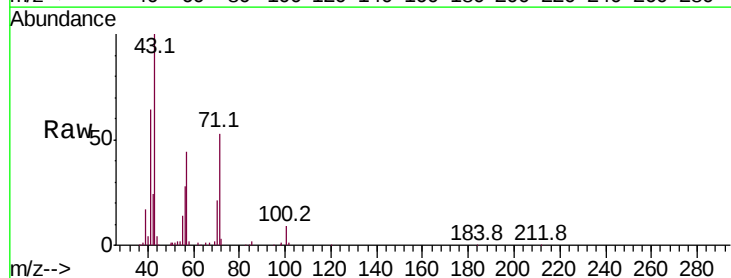
Acq: 5 Sep 2019 3:48

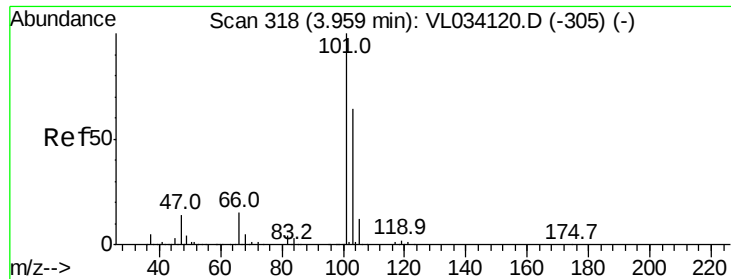
Tgt Ion: 43 Resp: 207420

Ion Ratio Lower Upper

43 100

57 45.5 38.1 57.1





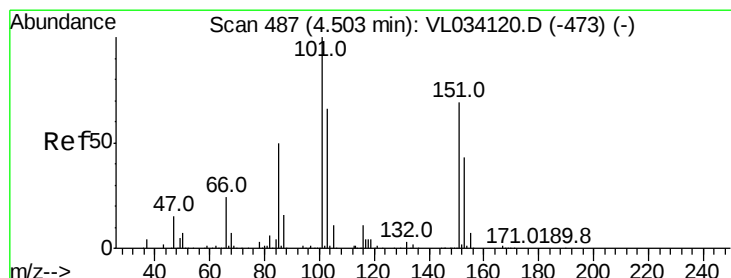
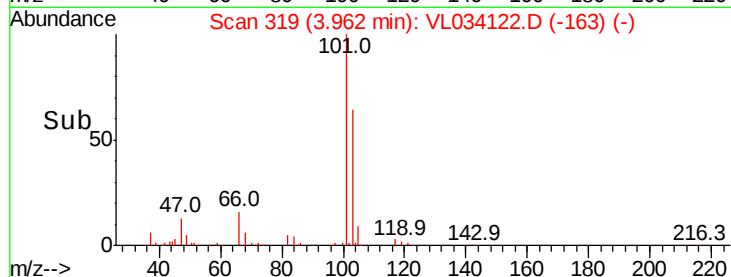
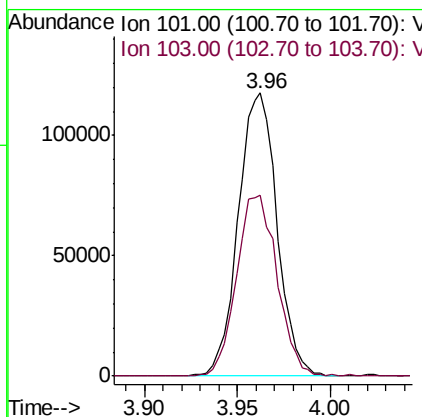
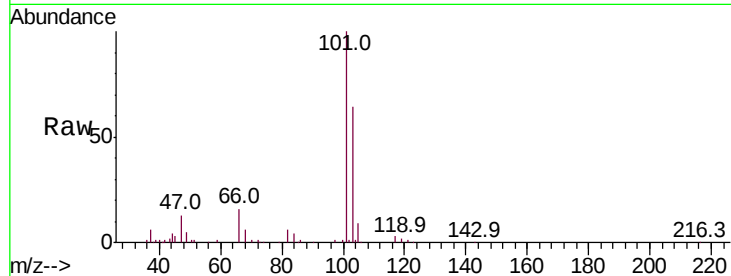
#11
 Trichlorofluoromethane
 Concen: 1.048 ppbv
 RT: 3.96 min Scan# 319
 Delta R.T. 0.00 min
 Lab File: VL034122.D
 Acq: 5 Sep 2019 3:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion:101 Resp: 170533
 Ion Ratio Lower Upper
 101 100
 103 63.8 51.4 77.2

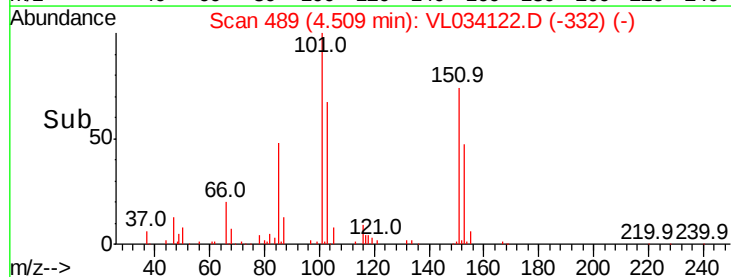
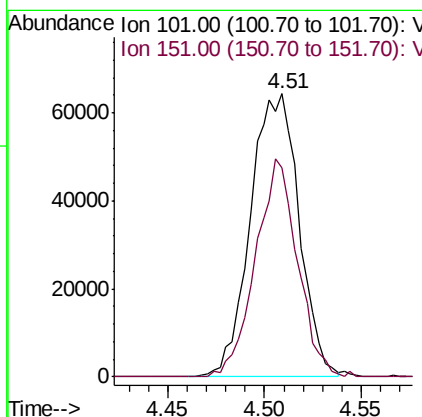
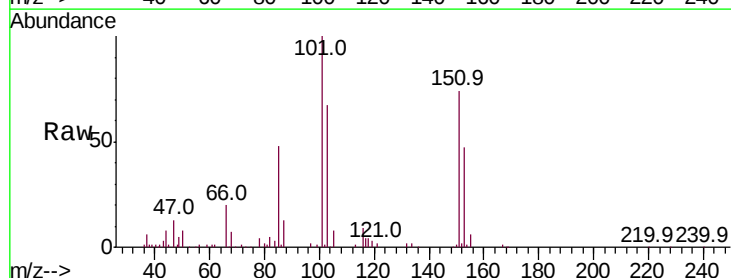
Manual Integrations
 APPROVED

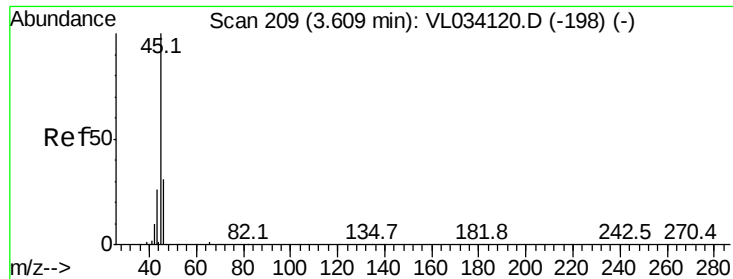
MMDadoda
 9/12/2019 5:15:46 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.030 ppbv
 RT: 4.51 min Scan# 489
 Delta R.T. 0.01 min
 Lab File: VL034122.D
 Acq: 5 Sep 2019 3:48

Tgt Ion:101 Resp: 112098
 Ion Ratio Lower Upper
 101 100
 151 66.7 53.0 79.6





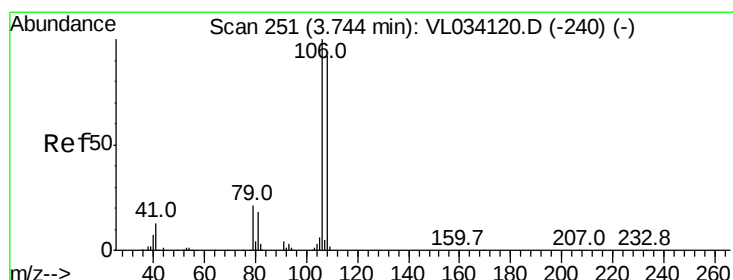
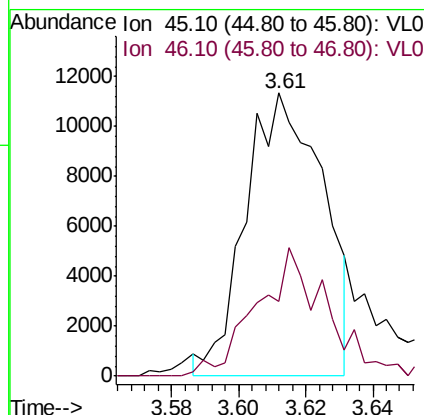
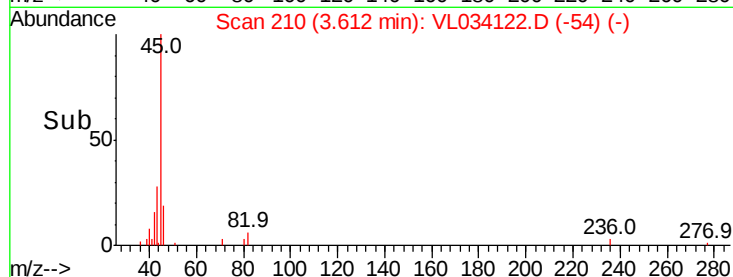
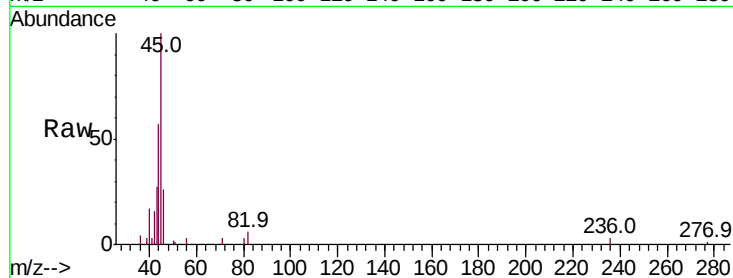
#13
Ethanol
Concen: 1.063 ppbv m
RT: 3.61 min Scan# 210
Delta R.T. 0.00 min
Lab File: VL034122.D
Acq: 5 Sep 2019 3:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 45 Resp: 18141
Ion Ratio Lower Upper
45 100
46 43.0 15.0 60.0

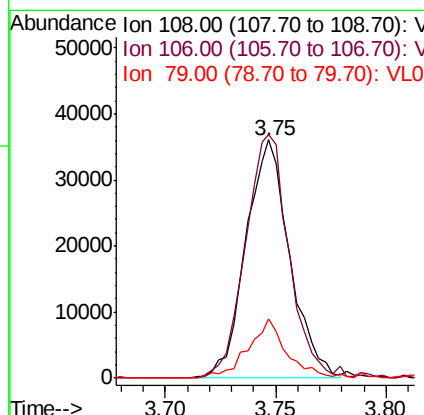
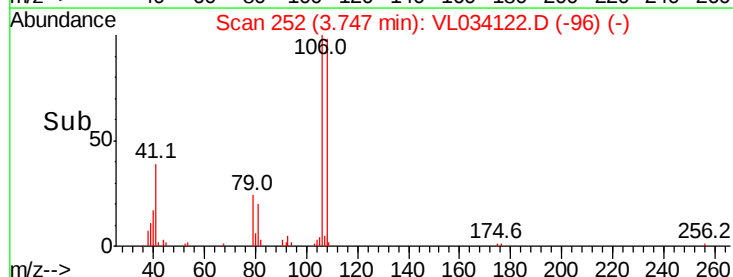
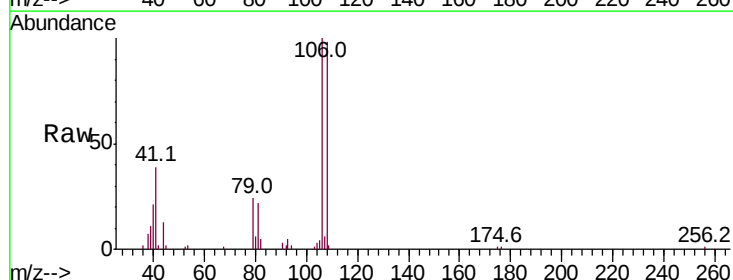
Manual Integrations
APPROVED

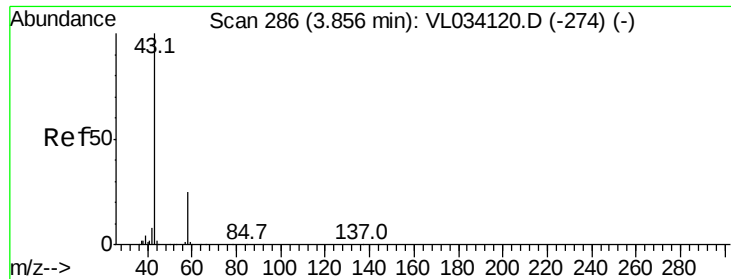
MMDadoda
9/12/2019 5:15:46 AM



#14
Bromoethene
Concen: 1.063 ppbv
RT: 3.75 min Scan# 252
Delta R.T. 0.00 min
Lab File: VL034122.D
Acq: 5 Sep 2019 3:48

Tgt Ion: 108 Resp: 50000
Ion Ratio Lower Upper
108 100
106 103.2 87.2 130.8
79 23.0 16.5 24.7





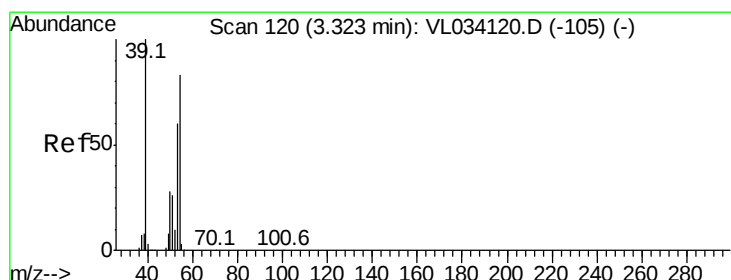
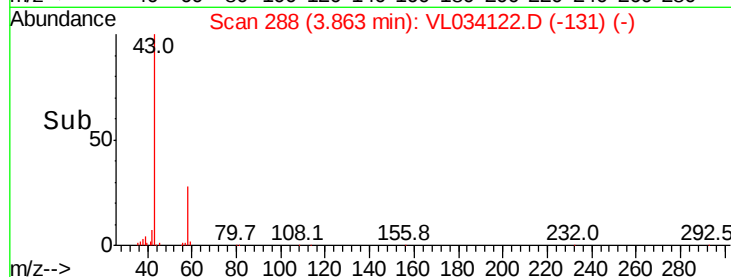
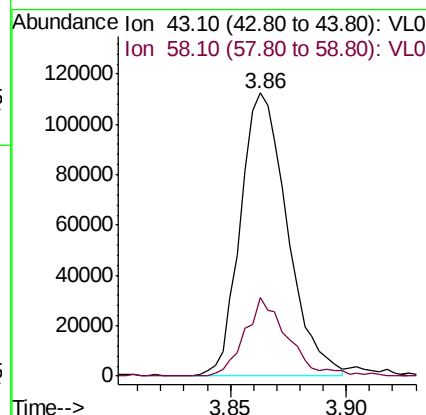
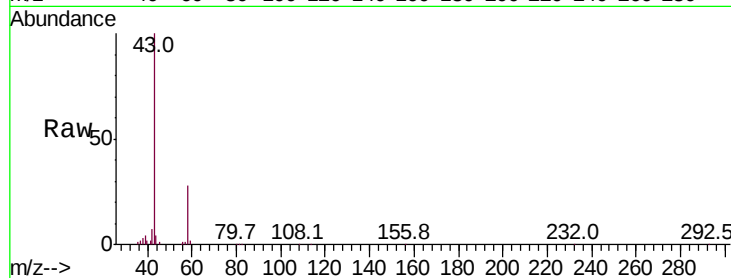
#15
Acetone
Concen: 1.085 ppbv
RT: 3.86 min Scan# 288
Delta R.T. 0.01 min
Lab File: VL034122.D
Acq: 5 Sep 2019 3:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 43 Resp: 158190
Ion Ratio Lower Upper
43 100
58 25.7 20.6 30.8

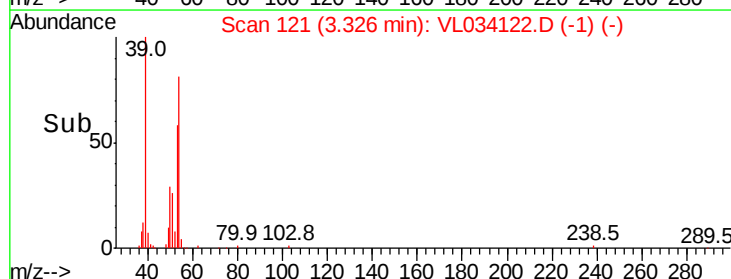
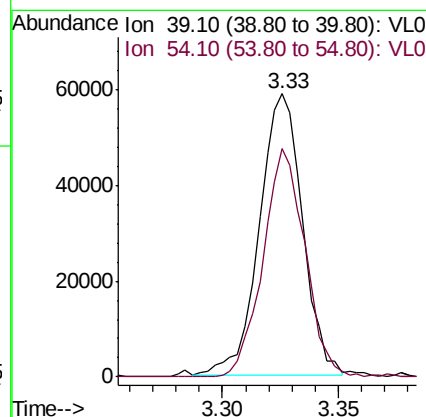
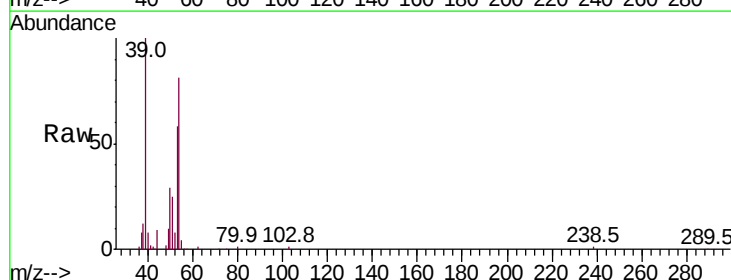
Manual Integrations
APPROVED

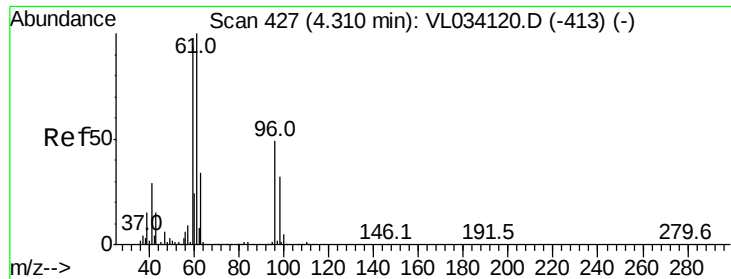
MMDadoda
9/12/2019 5:15:46 AM



#16
1,3-Butadiene
Concen: 1.031 ppbv
RT: 3.33 min Scan# 121
Delta R.T. 0.00 min
Lab File: VL034122.D
Acq: 5 Sep 2019 3:48

Tgt Ion: 39 Resp: 76079
Ion Ratio Lower Upper
39 100
54 79.2 63.5 95.3





#17

tert-Butyl alcohol

Concen: 1.098 ppbv

RT: 4.32 min Scan# 429

Delta R.T. 0.01 min

Lab File: VL034122.D

Acq: 5 Sep 2019 3:48

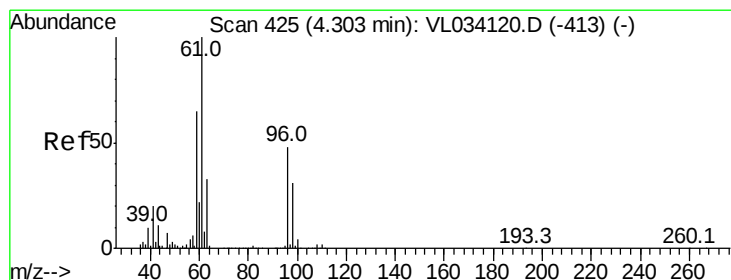
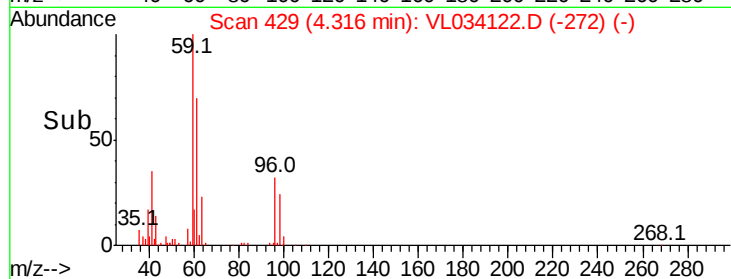
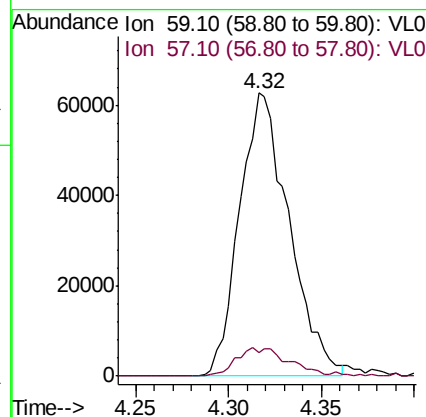
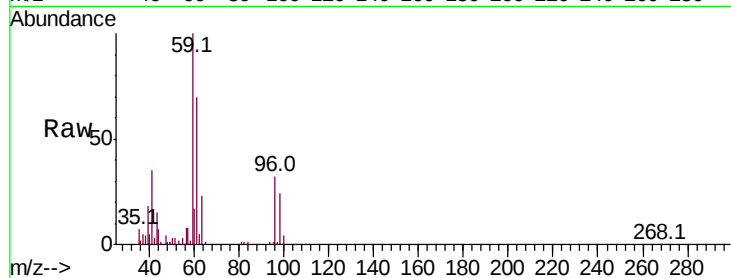
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 59 Resp: 116157

Ion	Ratio	Lower	Upper
59	100		
57	11.0	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
9/12/2019 5:15:46 AM



#18

1,1-Dichloroethene

Concen: 1.010 ppbv

RT: 4.31 min Scan# 427

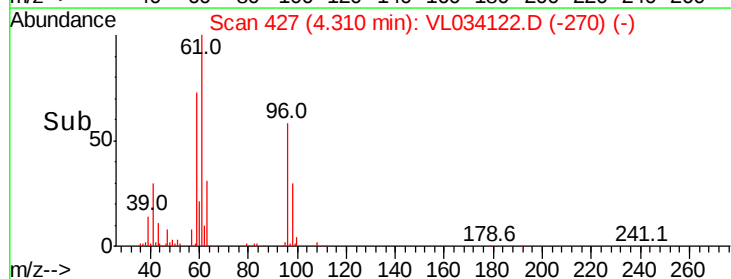
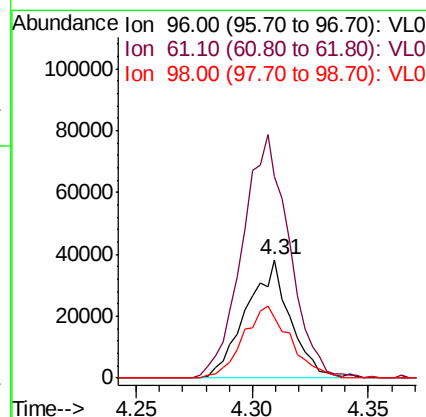
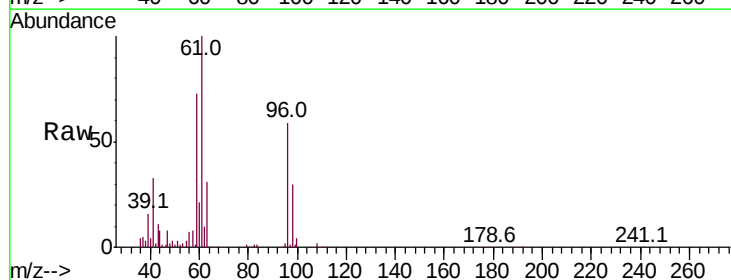
Delta R.T. 0.01 min

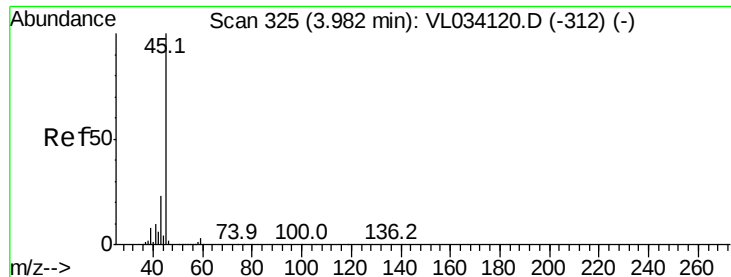
Lab File: VL034122.D

Acq: 5 Sep 2019 3:48

Tgt Ion: 96 Resp: 50153

Ion	Ratio	Lower	Upper
96	100		
61	170.7	165.8	248.8
98	51.2	50.8	76.2





#19

Isopropyl Alcohol

Concen: 1.060 ppbv

RT: 3.98 min Scan# 326

Delta R.T. 0.00 min

Lab File: VL034122.D

Acq: 5 Sep 2019 3:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 45 Resp: 103948

Ion Ratio Lower Upper

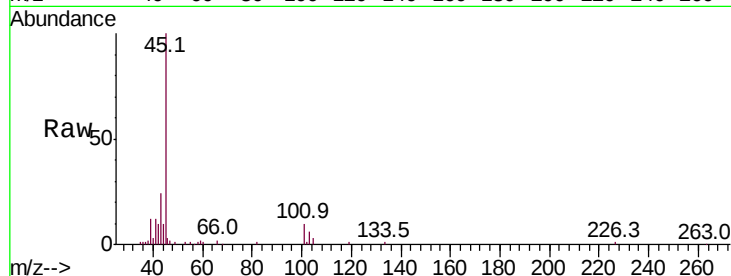
45 100

58 1.4 1.0 1.6

Manual Integrations
APPROVED

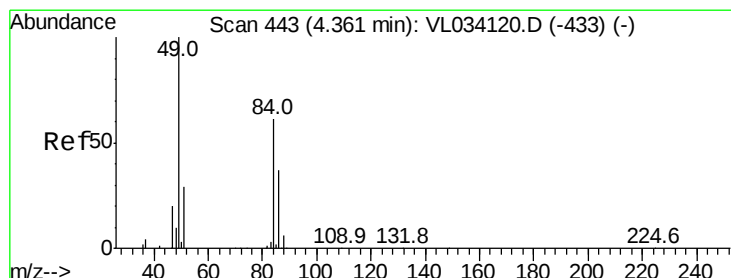
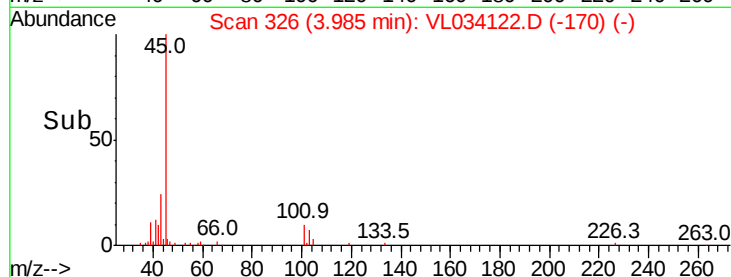
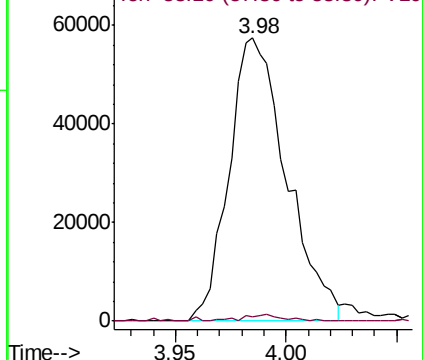
MMDadoda

9/12/2019 5:15:46 AM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 1.099 ppbv

RT: 4.36 min Scan# 444

Delta R.T. 0.00 min

Lab File: VL034122.D

Acq: 5 Sep 2019 3:48

Tgt Ion: 84 Resp: 52950

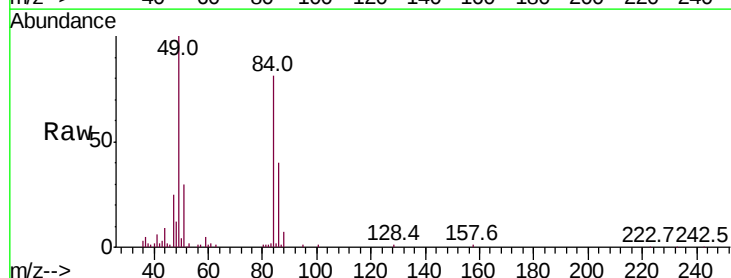
Ion Ratio Lower Upper

84 100

49 121.3 131.0 196.6#

51 35.7 38.1 57.1#

86 48.6 49.0 73.6#

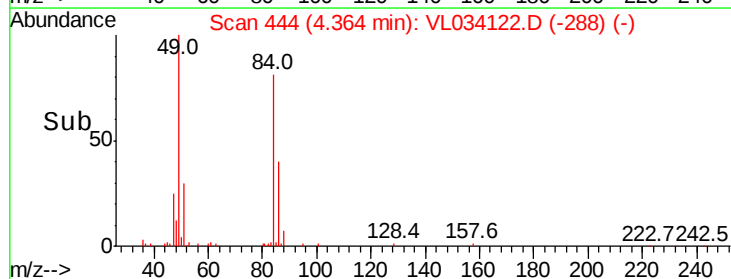
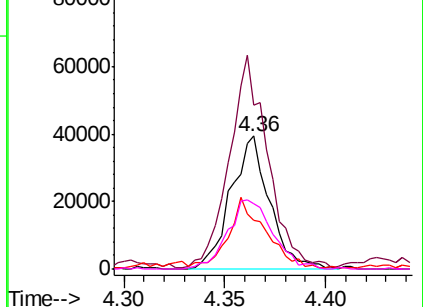


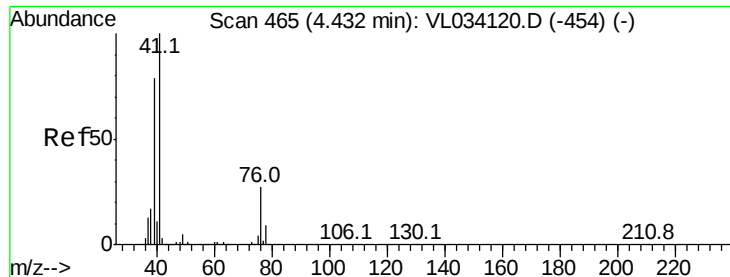
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





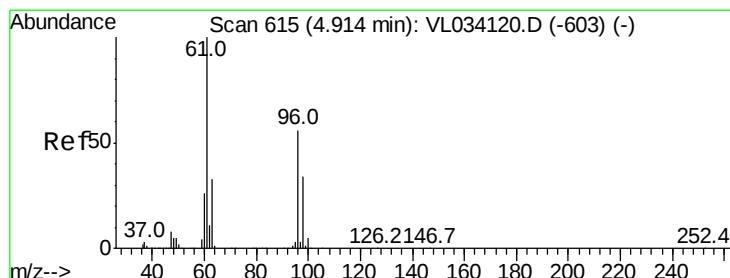
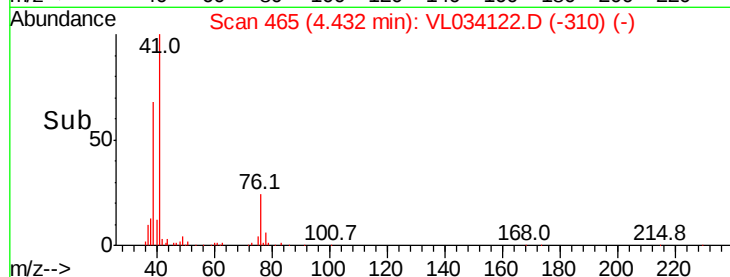
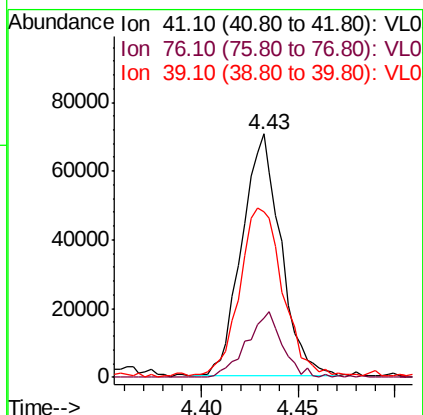
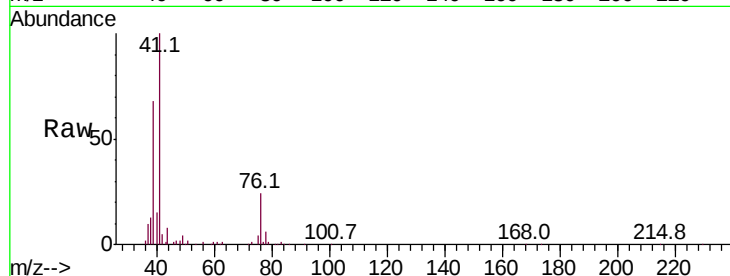
#21
Allvl Chloride
Concen: 1.028 ppbv
RT: 4.43 min Scan# 465
Delta R.T. -0.00 min
Lab File: VL034122.D
Acq: 5 Sep 2019 3:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
41	100		
76	25.0	21.6	32.4
39	80.3	65.0	97.4

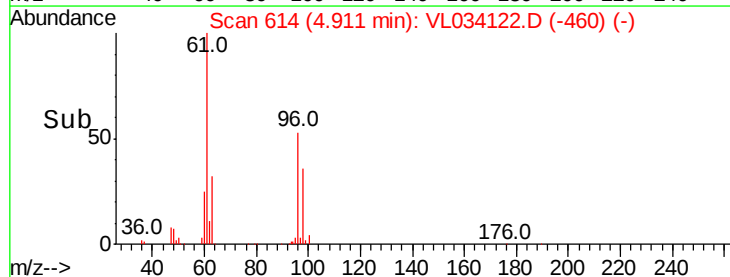
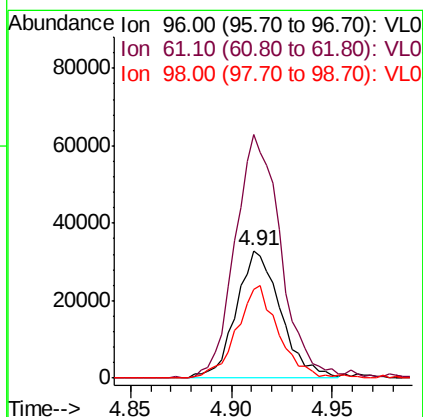
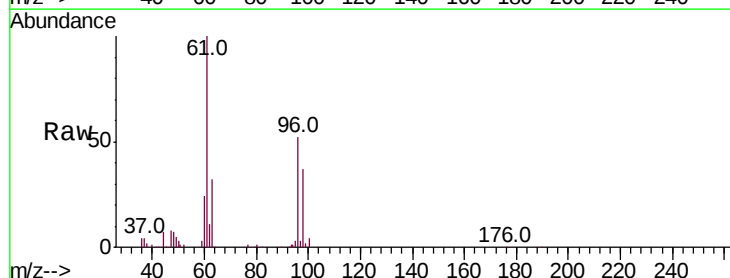
Manual Integrations
APPROVED

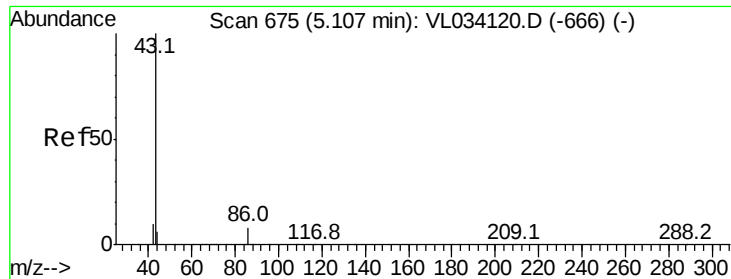
MMDadoda
9/12/2019 5:15:46 AM



#22
trans-1,2-Dichloroethene
Concen: 1.019 ppbv
RT: 4.91 min Scan# 614
Delta R.T. -0.00 min
Lab File: VL034122.D
Acq: 5 Sep 2019 3:48

Tgt Ion	Ratio	Lower	Upper
96	100		
61	190.3	143.1	214.7
98	69.8	49.0	73.4





#23

Vinyl Acetate

Concen: 1.028 ppbv

RT: 5.10 min Scan# 674

Delta R.T. -0.00 min

Lab File: VL034122.D

Acq: 5 Sep 2019 3:48

Instrument :

MSVOA_L

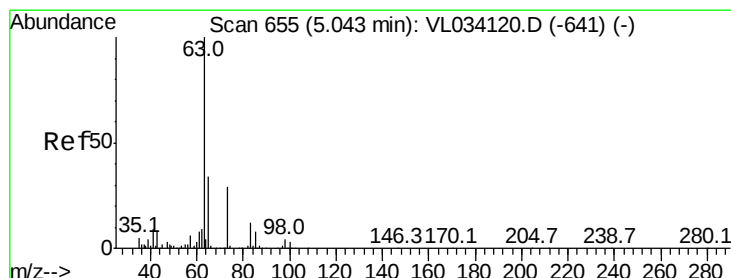
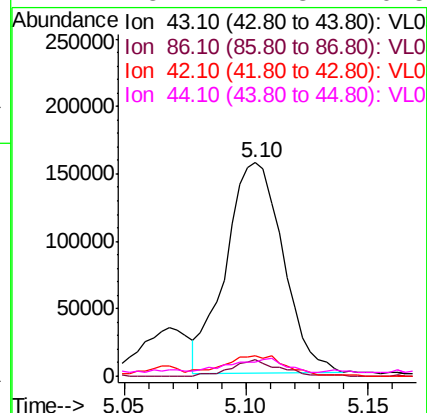
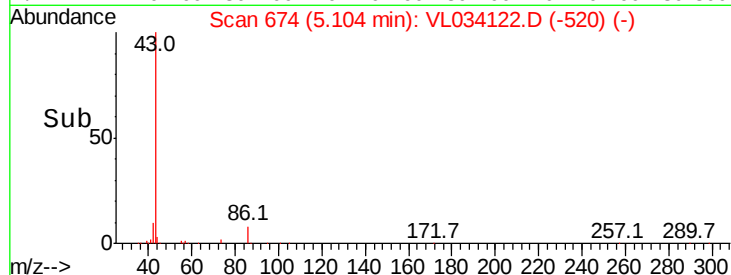
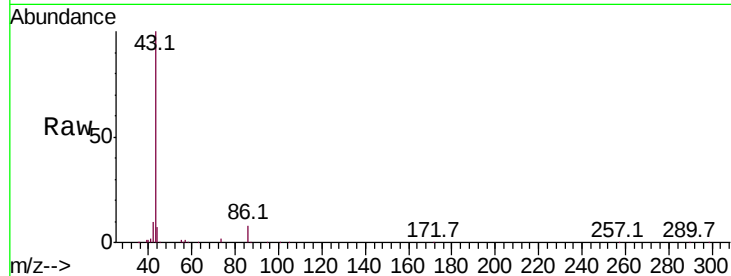
ClientSampleId :

VSTDIC001

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100		254106		
86	7.6	5.5	8.3		
42	9.6	8.2	12.4		
44	5.2	4.3	6.5		

Manual Integrations
APPROVED

MMDadoda
9/12/2019 5:15:46 AM



#24

1,1-Dichloroethane

Concen: 1.057 ppbv

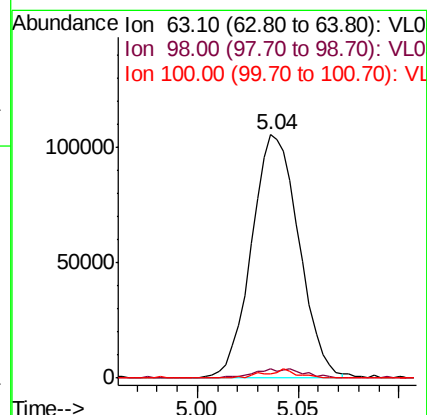
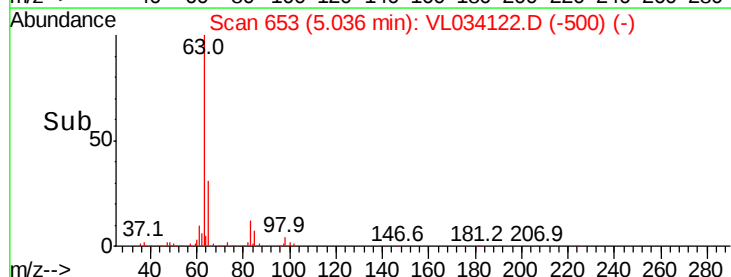
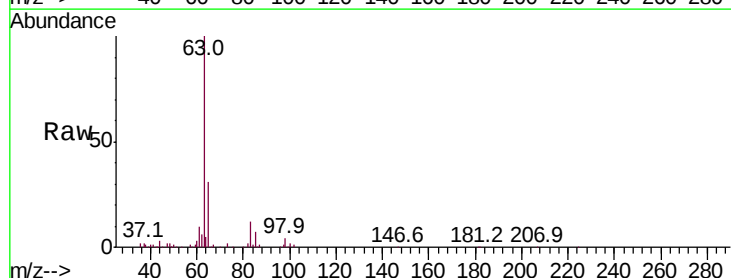
RT: 5.04 min Scan# 653

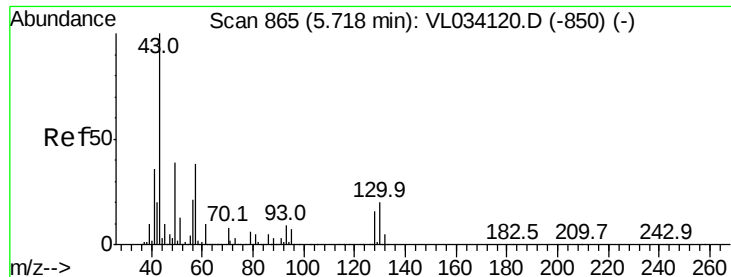
Delta R.T. -0.01 min

Lab File: VL034122.D

Acq: 5 Sep 2019 3:48

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
63	100		173398		
98	3.9	2.1	6.2		
100	2.0	1.4	4.0		





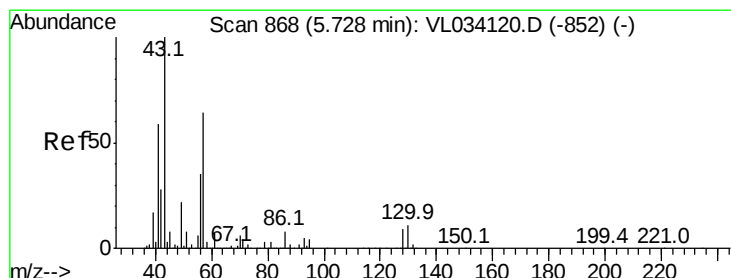
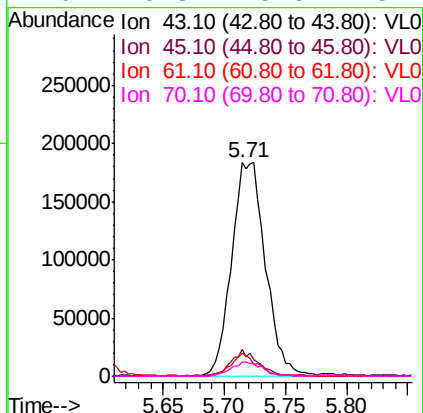
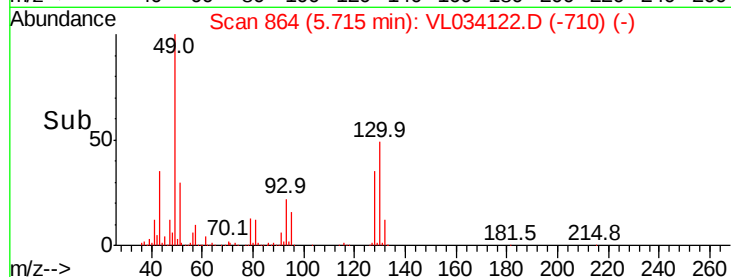
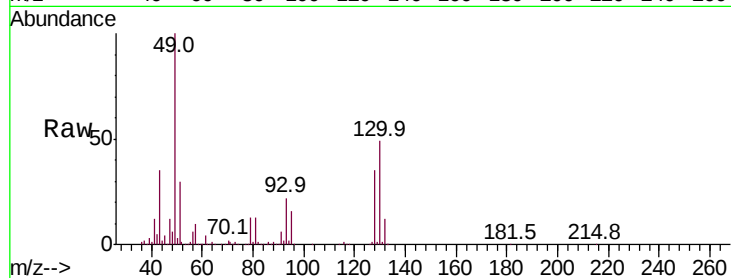
#25
Ethyl Acetate
Concen: 1.117 ppbv m
RT: 5.71 min Scan# 864
Delta R.T. -0.00 min
Lab File: VL034122.D
Acq: 5 Sep 2019 3:48

Instrument :
MSVOA_L
ClientSampled :
VSTDIC001

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100				
45	10.2	8.2	12.4		
61	8.5	7.4	11.2		
70	6.3	5.6	8.4		

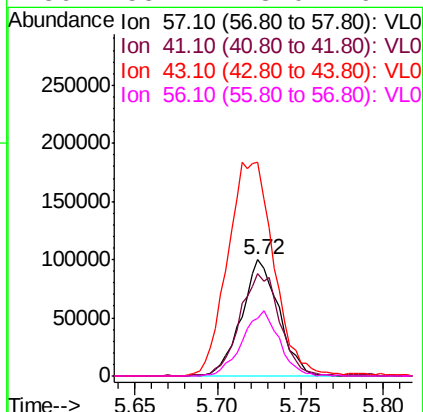
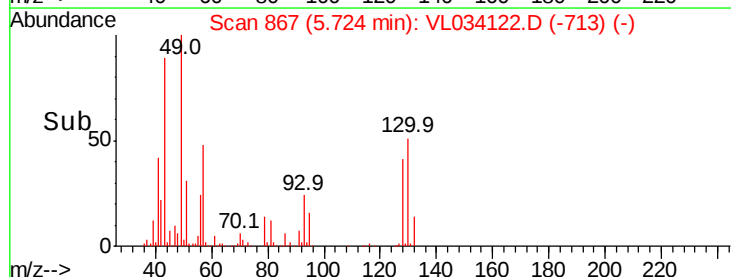
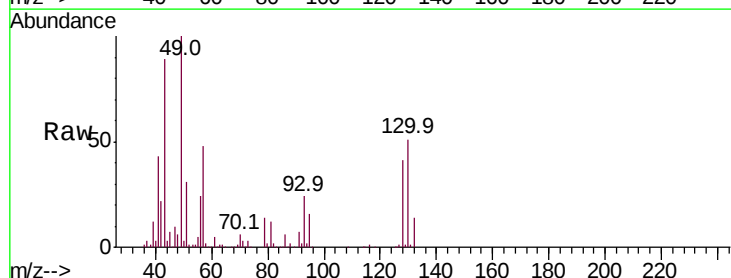
Manual Integrations
APPROVED

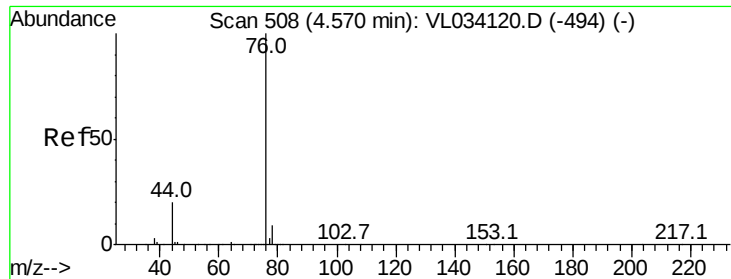
MMDadoda
9/12/2019 5:15:46 AM



#26
Hexane
Concen: 1.104 ppbv
RT: 5.72 min Scan# 867
Delta R.T. -0.00 min
Lab File: VL034122.D
Acq: 5 Sep 2019 3:48

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	94.6	76.6	115.0		
43	227.7	189.2	283.8		
56	55.4	43.0	64.4		





#27

Carbon Disulfide

Concen: 1.033 ppbv

RT: 4.57 min Scan# 509

Delta R.T. 0.00 min

Lab File: VL034122.D

Acq: 5 Sep 2019 3:48

Instrument :

MSVOA_L

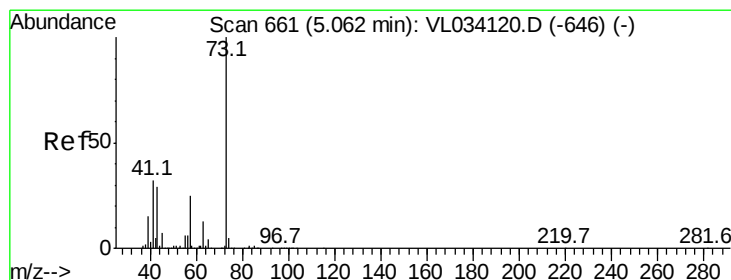
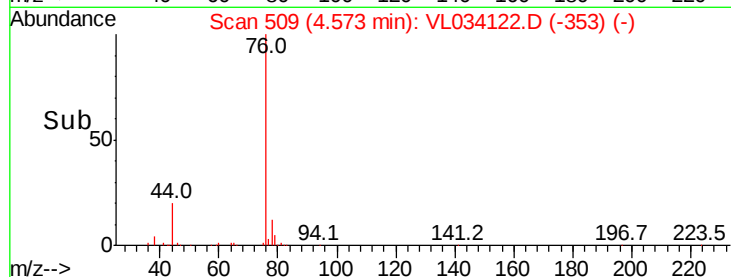
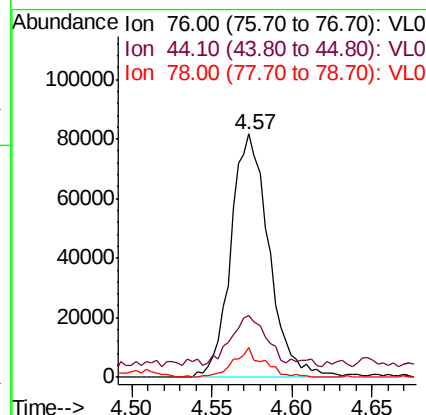
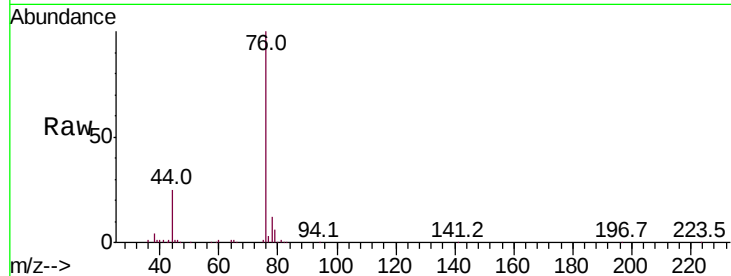
ClientSampleId :

VSTDIC001

Tot Ion:	76	Resp:	132252
Ion Ratio	Lower	Upper	
76	100		
44	23.5	17.6	26.4
78	9.9	7.3	10.9

Manual Integrations
APPROVED

MMDadoda
9/12/2019 5:15:46 AM



#28

Methyl tert-Butyl Ether

Concen: 1.061 ppbv

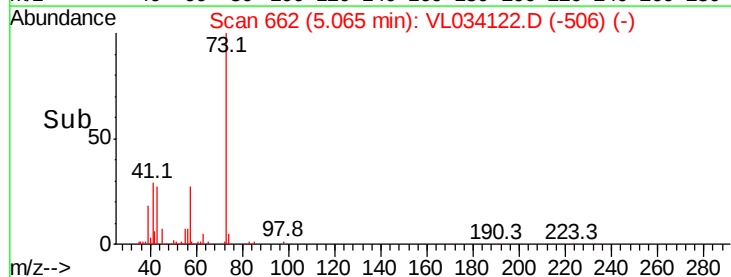
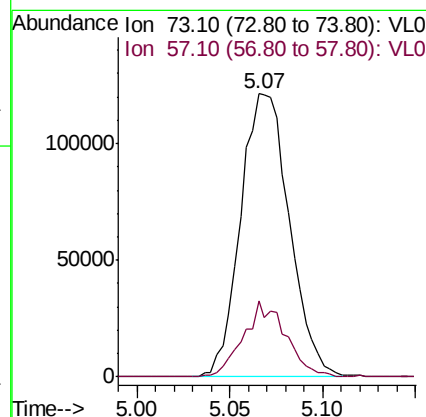
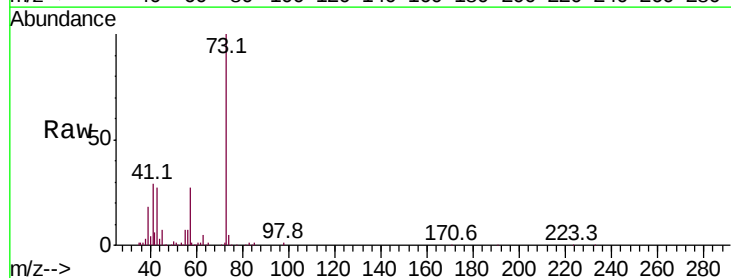
RT: 5.07 min Scan# 662

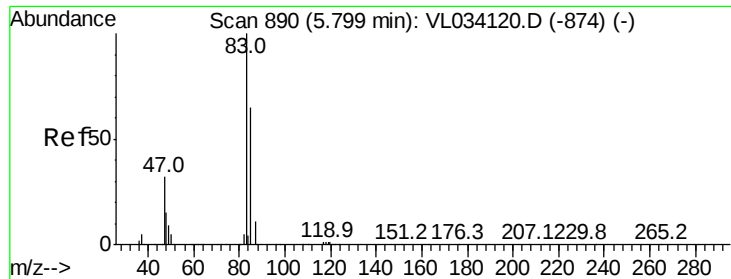
Delta R.T. 0.00 min

Lab File: VL034122.D

Acq: 5 Sep 2019 3:48

Tgt Ion:	73	Resp:	221137
Ion Ratio	Lower	Upper	
73	100		
57	23.4	19.8	29.8





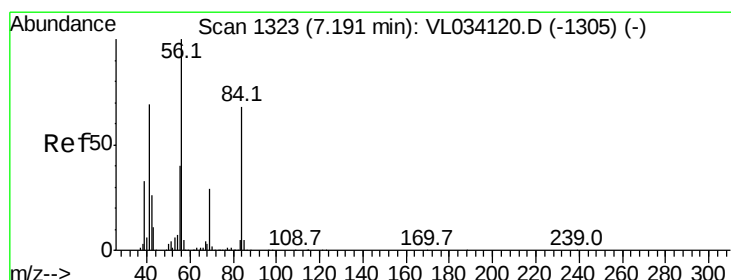
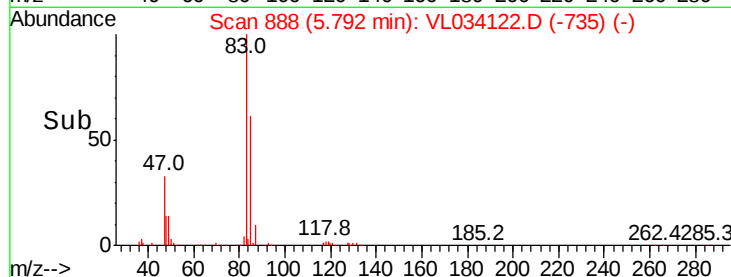
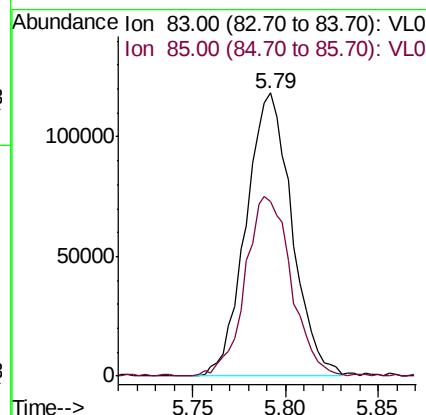
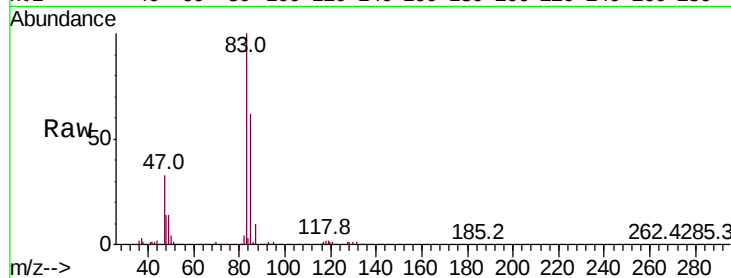
#29
Chloroform
Concen: 1.064 ppbv
RT: 5.79 min Scan# 888
Delta R.T. -0.01 min
Lab File: VL034122.D
Acq: 5 Sep 2019 3:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	83	Resp	204082
Ion Ratio	100	Lower	Upper
83	100		
85	61.7	51.8	77.6

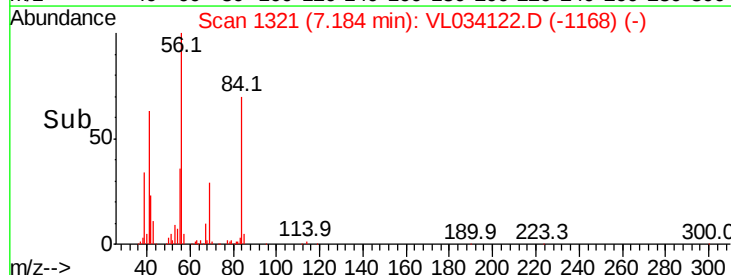
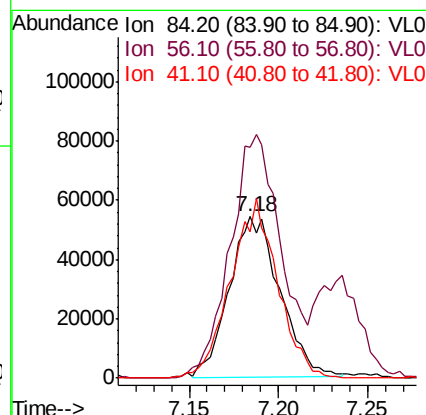
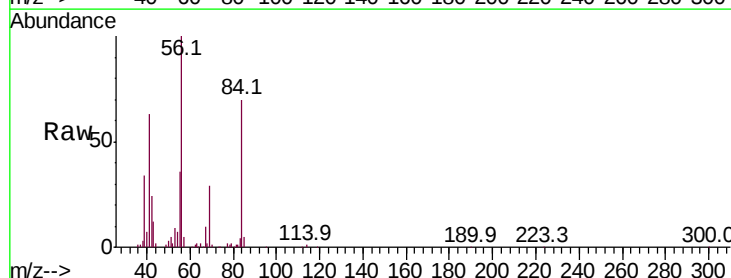
Manual Integrations
APPROVED

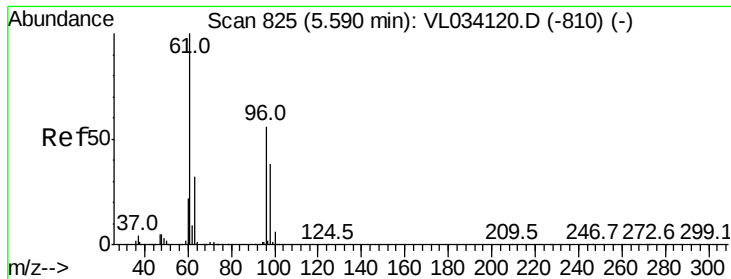
MMDadoda
9/12/2019 5:15:46 AM



#30
Cyclohexane
Concen: 1.042 ppbv
RT: 7.18 min Scan# 1321
Delta R.T. -0.01 min
Lab File: VL034122.D
Acq: 5 Sep 2019 3:48

Tgt Ion	84	Resp	107175
Ion Ratio	100	Lower	Upper
84	100		
56	149.4	122.6	183.8
41	102.8	79.1	118.7





#31

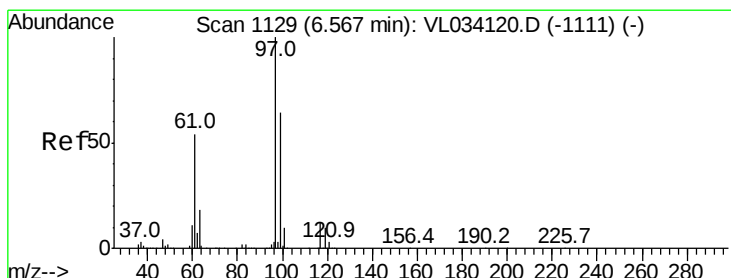
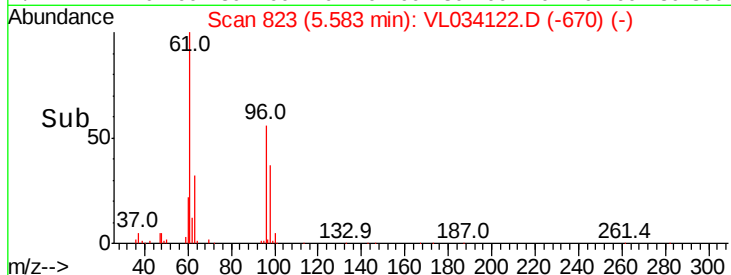
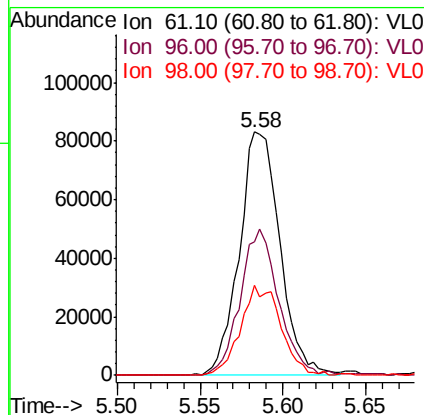
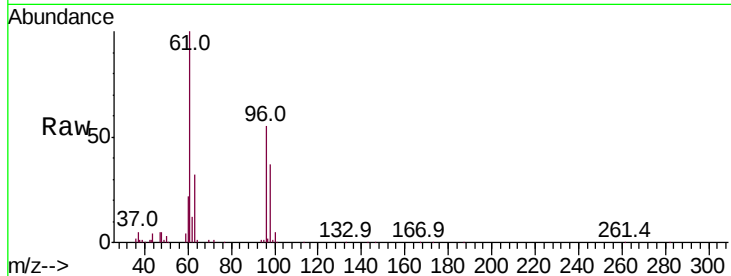
cis-1,2-Dichloroethene
Concen: 1.043 ppbv
RT: 5.58 min Scan# 823
Delta R.T. -0.01 min
Lab File: VL034122.D
Acq: 5 Sep 2019 3:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
61	100		
96	54.8	44.4	66.6
98	36.9	30.0	45.0

Manual Integrations
APPROVED

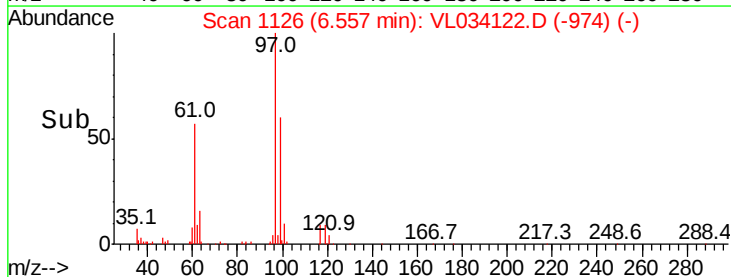
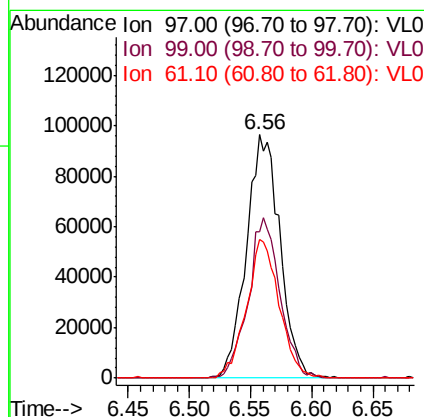
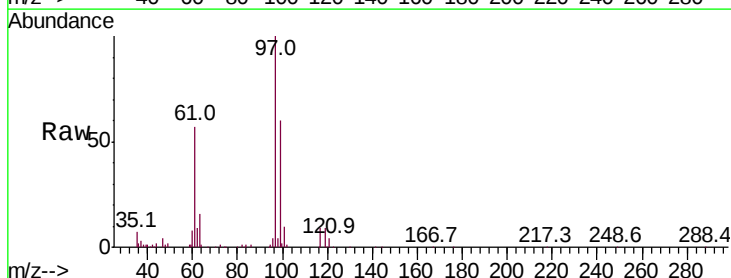
MMDadoda
9/12/2019 5:15:46 AM

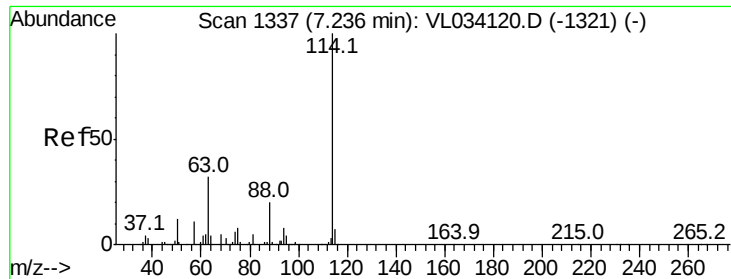


#32

1,1,1-Trichloroethane
Concen: 1.026 ppbv m
RT: 6.56 min Scan# 1126
Delta R.T. -0.01 min
Lab File: VL034122.D
Acq: 5 Sep 2019 3:48

Tgt Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.7	77.5#
61	55.6	44.0	66.0





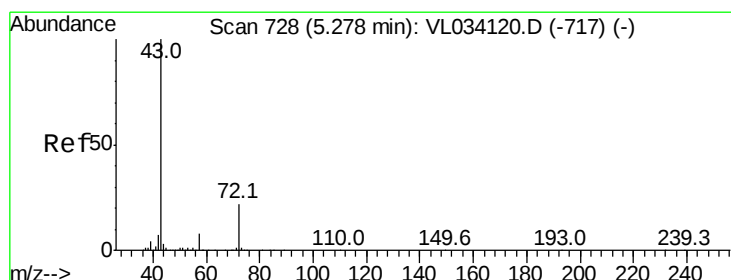
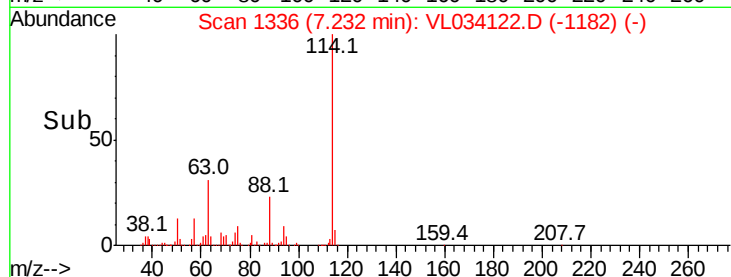
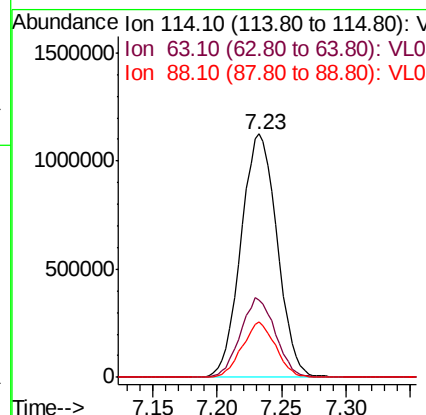
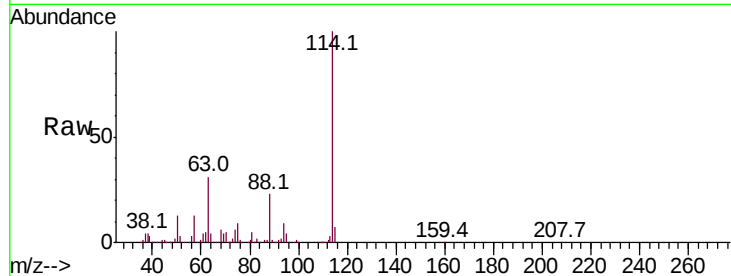
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.23 min Scan# 1336
 Delta R.T. -0.00 min
 Lab File: VL034122.D
 Acq: 5 Sep 2019 3:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
114	100		
63	31.6	25.5	38.3
88	21.1	16.8	25.2

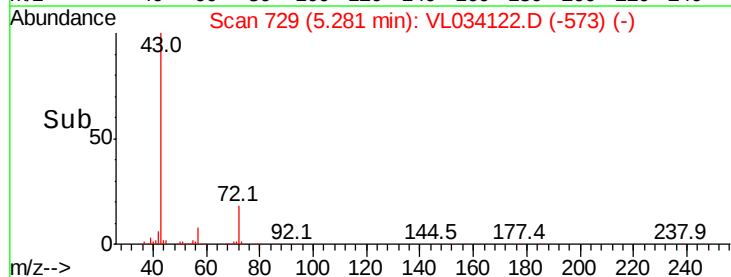
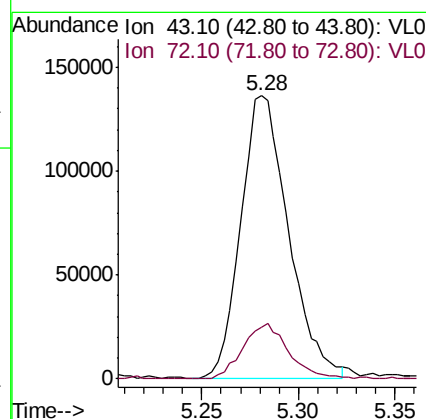
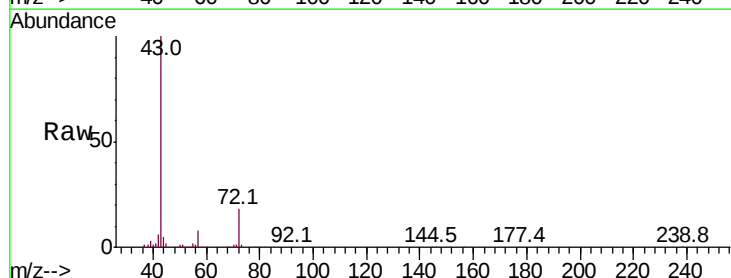
Manual Integrations
 APPROVED

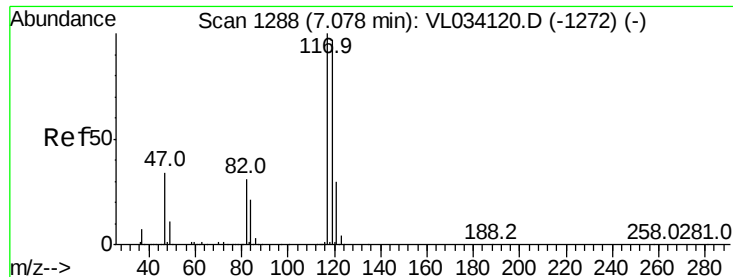
MMDadoda
 9/12/2019 5:15:46 AM



#34
 2-Butanone
 Concen: 1.105 ppbv
 RT: 5.28 min Scan# 729
 Delta R.T. 0.00 min
 Lab File: VL034122.D
 Acq: 5 Sep 2019 3:48

Tgt Ion	Ratio	Lower	Upper
43	100		
72	19.2	16.5	24.7





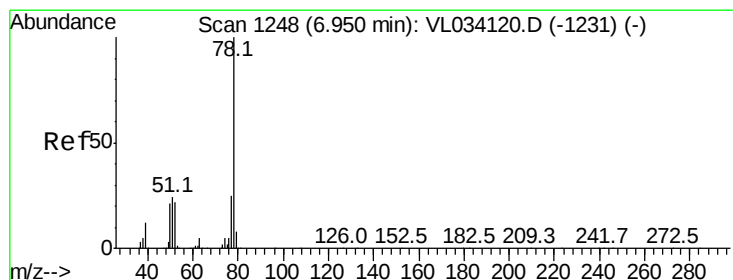
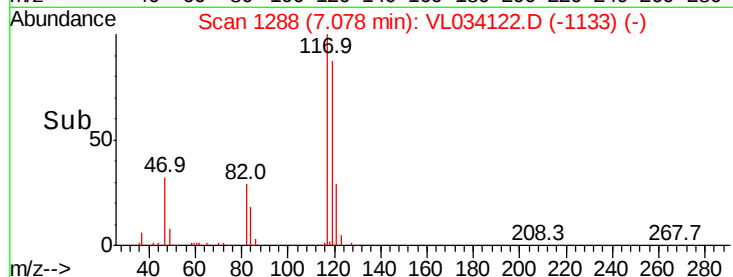
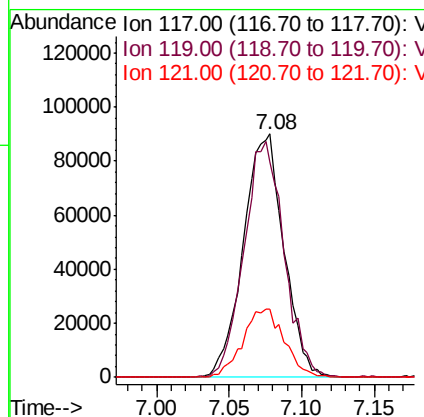
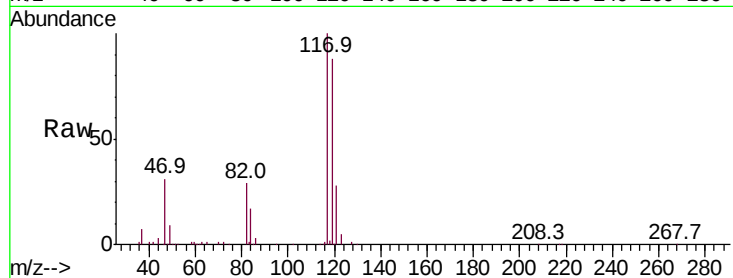
#35
Carbon Tetrachloride
Concen: 1.031 ppbv
RT: 7.08 min Scan# 1288
Delta R.T. -0.00 min
Lab File: VL034122.D
Acq: 5 Sep 2019 3:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
117	100		
119	88.3	77.2	115.8
121	28.0	24.2	36.4

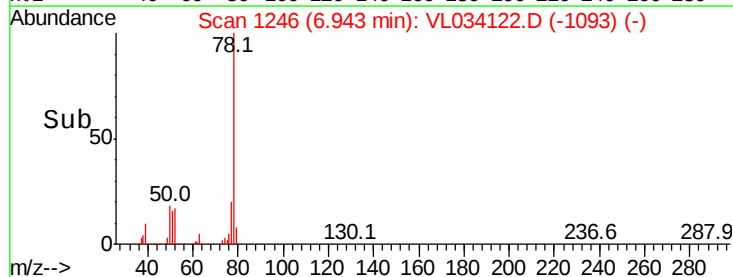
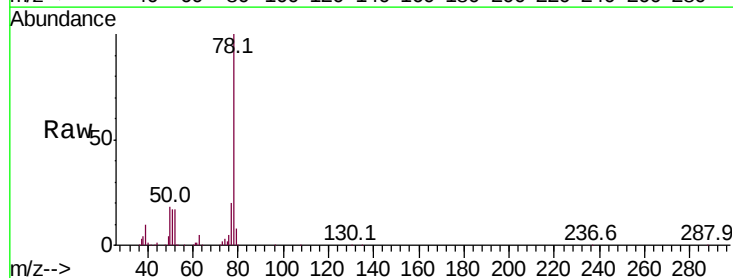
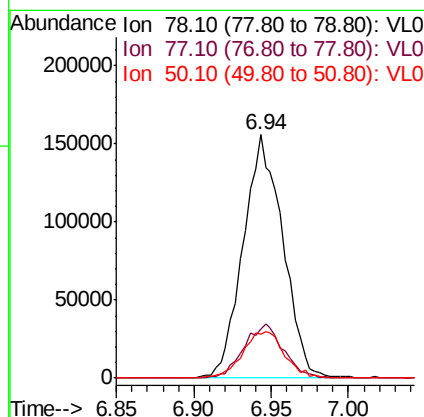
Manual Integrations
APPROVED

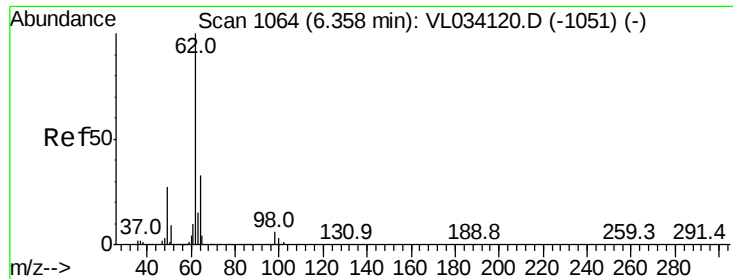
MMDadoda
9/12/2019 5:15:46 AM



#36
Benzene
Concen: 1.102 ppbv
RT: 6.94 min Scan# 1246
Delta R.T. -0.01 min
Lab File: VL034122.D
Acq: 5 Sep 2019 3:48

Tgt Ion	Ratio	Lower	Upper
78	100		
77	20.1	20.3	30.5#
50	18.1	16.9	25.3





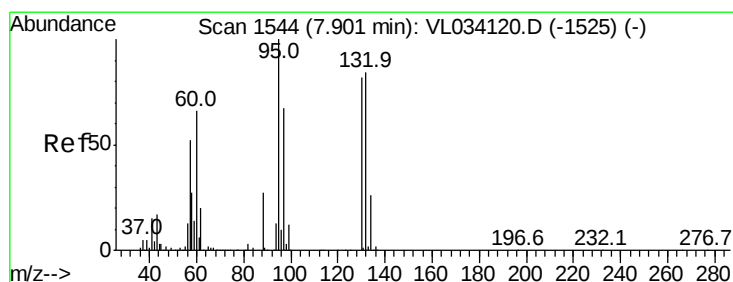
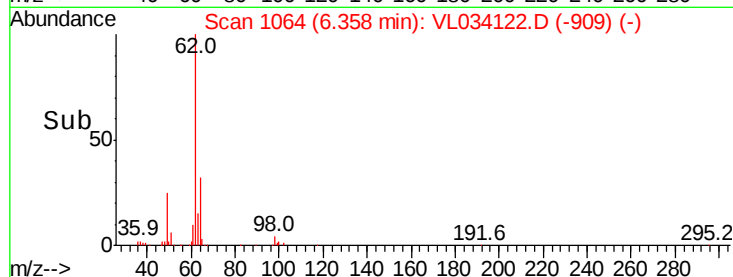
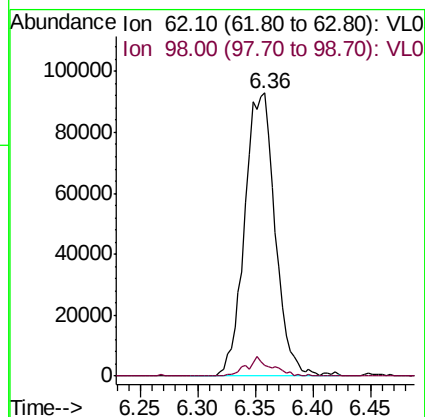
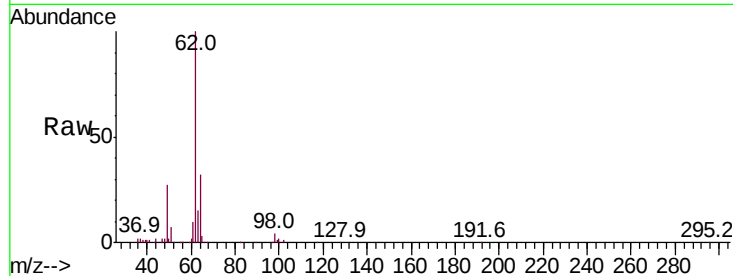
#37
 1,2-Dichloroethane
 Concen: 1.102 ppbv m
 RT: 6.36 min Scan# 1064
 Delta R.T. -0.00 min
 Lab File: VL034122.D
 Acq: 5 Sep 2019 3:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion: 62 Resp: 169726
 Ion Ratio Lower Upper
 62 100
 98 0.0 4.4 6.6#

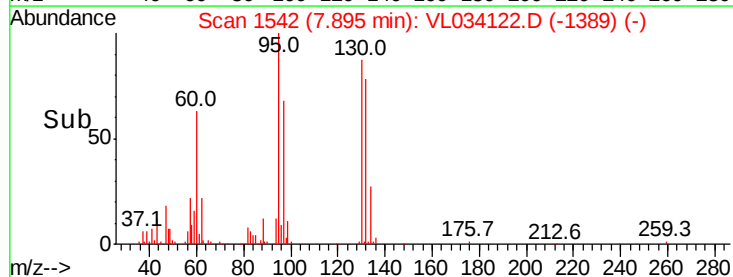
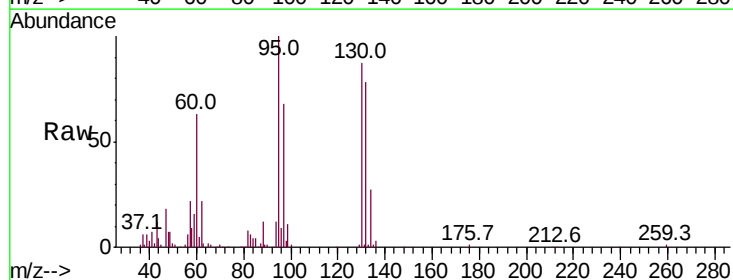
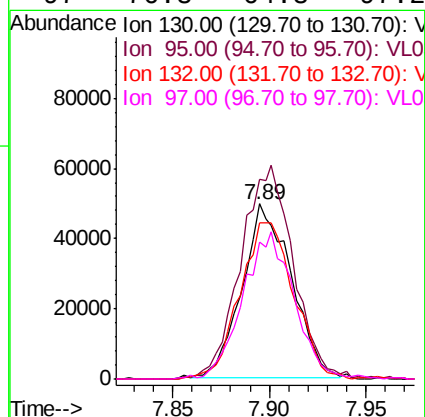
Manual Integrations
 APPROVED

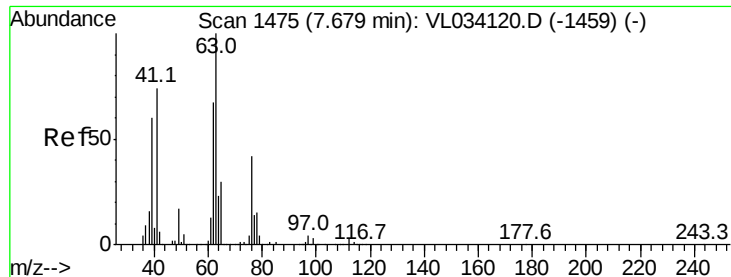
MMDadoda
 9/12/2019 5:15:46 AM



#38
 Trichloroethene
 Concen: 0.946 ppbv
 RT: 7.89 min Scan# 1542
 Delta R.T. -0.01 min
 Lab File: VL034122.D
 Acq: 5 Sep 2019 3:48

Tgt Ion:130 Resp: 87965
 Ion Ratio Lower Upper
 130 100
 95 114.5 97.2 145.8
 132 89.0 81.4 122.2
 97 76.8 64.8 97.2





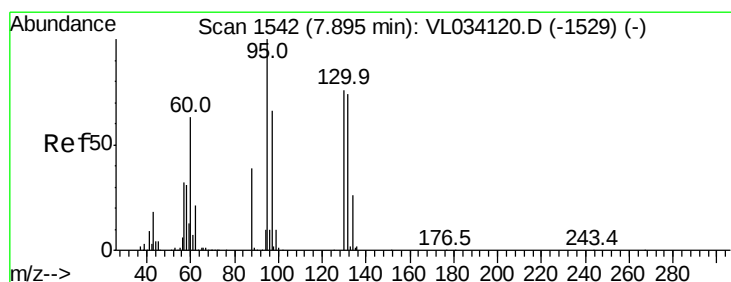
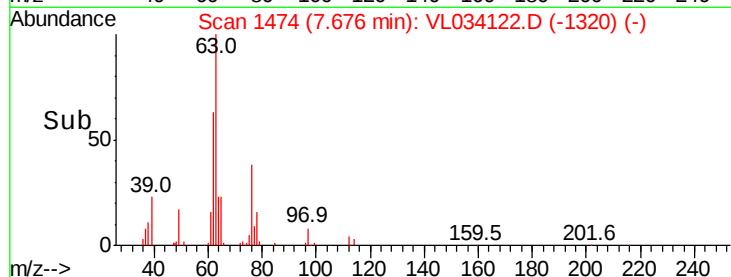
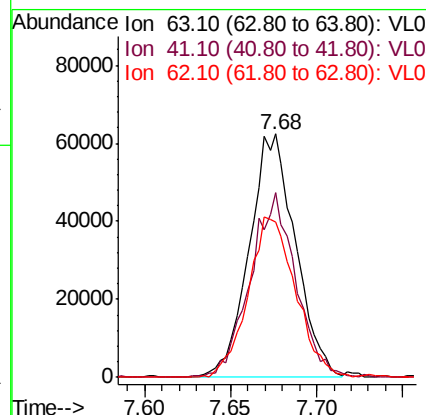
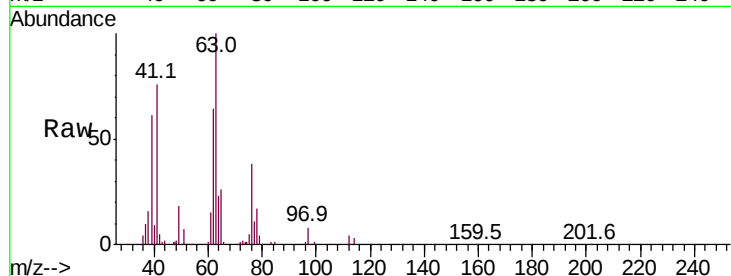
#39
 1,2-Dichloropropane
 Concen: 1.080 ppbv
 RT: 7.68 min Scan# 1474
 Delta R.T. -0.00 min
 Lab File: VL034122.D
 Acq: 5 Sep 2019 3:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
63	100		
41	75.1	59.3	88.9
62	63.7	53.8	80.6

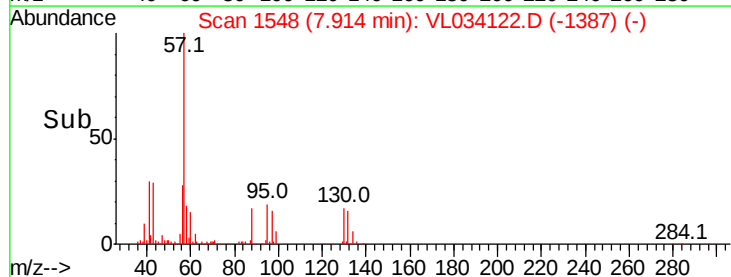
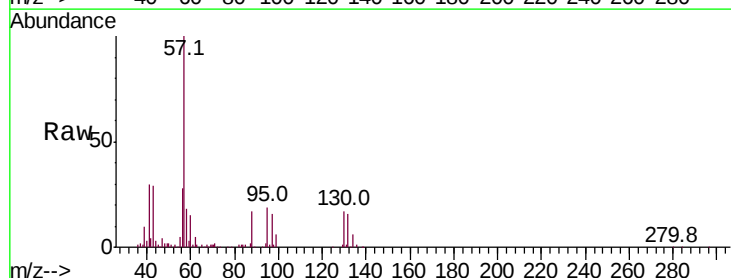
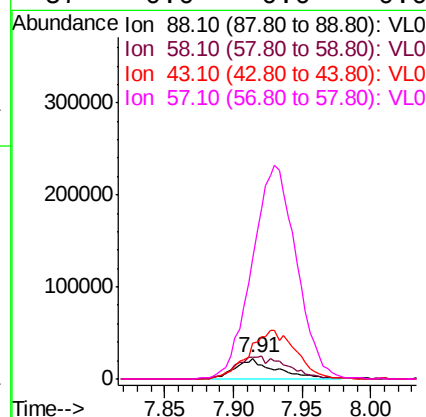
Manual Integrations
 APPROVED

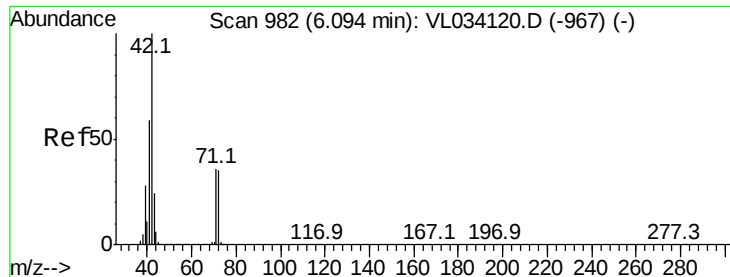
MMDadoda
 9/12/2019 5:15:46 AM



#40
 1,4-Dioxane
 Concen: 1.182 ppbv m
 RT: 7.91 min Scan# 1548
 Delta R.T. 0.02 min
 Lab File: VL034122.D
 Acq: 5 Sep 2019 3:48

Tgt Ion	Ratio	Lower	Upper
88	100		
58	144.1	121.7	182.5
43	0.0	0.0	0.0
57	0.0	0.0	0.0





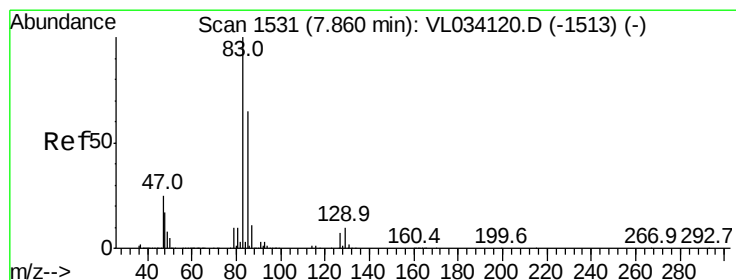
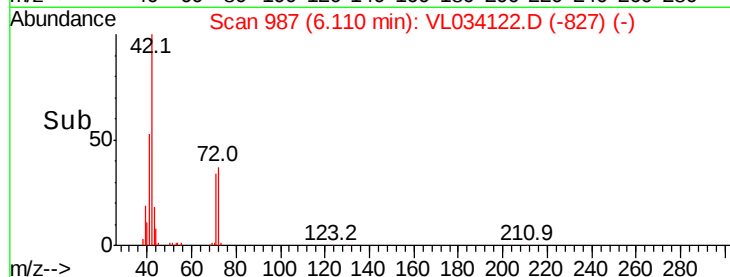
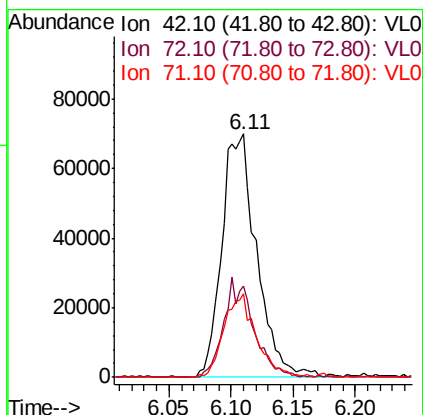
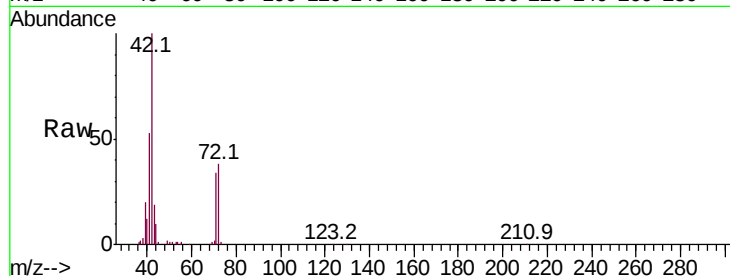
#41
Tetrahydrofuran
Concen: 1.091 ppbv
RT: 6.11 min Scan# 987
Delta R.T. 0.02 min
Lab File: VL034122.D
Acq: 5 Sep 2019 3:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
42	100		
72	35.0	27.7	41.5
71	0.0	26.7	40.1#

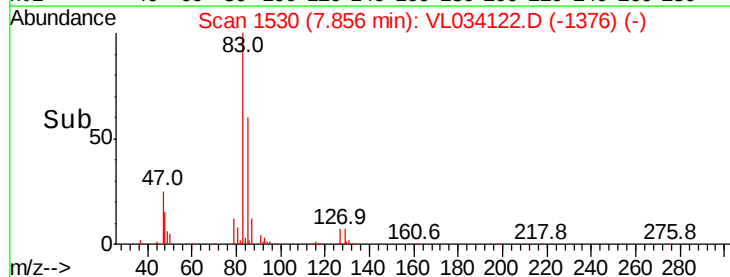
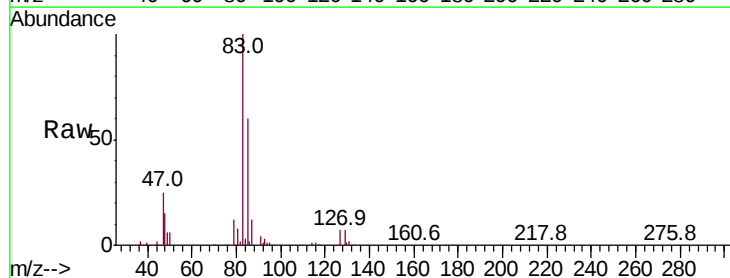
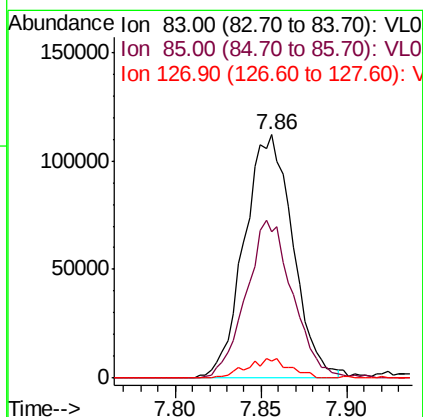
Manual Integrations
APPROVED

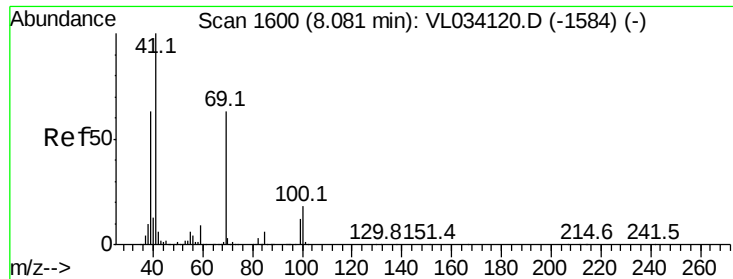
MMDadoda
9/12/2019 5:15:46 AM



#42
Bromodichloromethane
Concen: 1.094 ppbv
RT: 7.86 min Scan# 1530
Delta R.T. -0.00 min
Lab File: VL034122.D
Acq: 5 Sep 2019 3:48

Tgt Ion	Ratio	Lower	Upper
83	100		
85	60.1	51.6	77.4
127	6.8	5.4	8.0





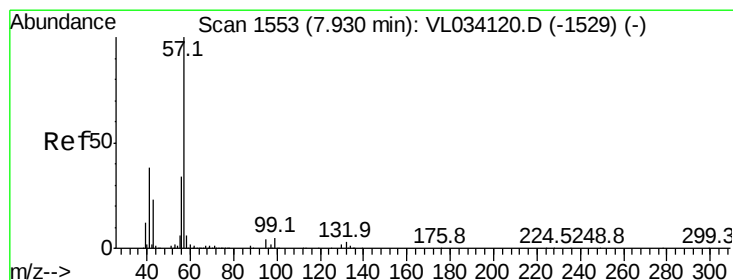
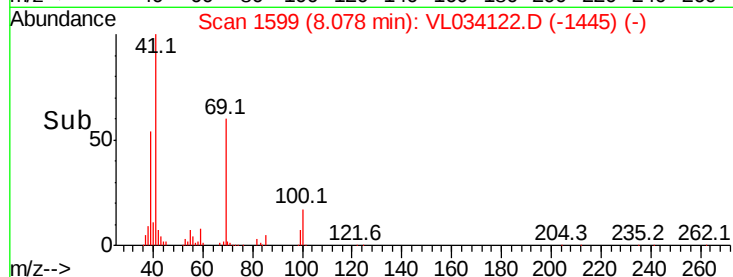
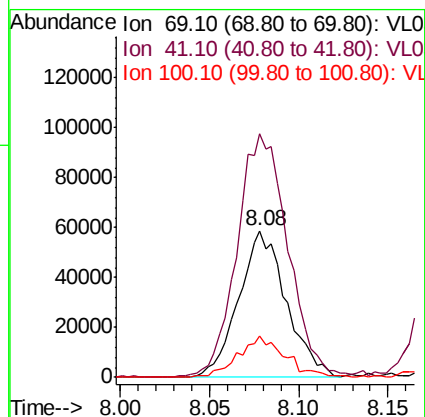
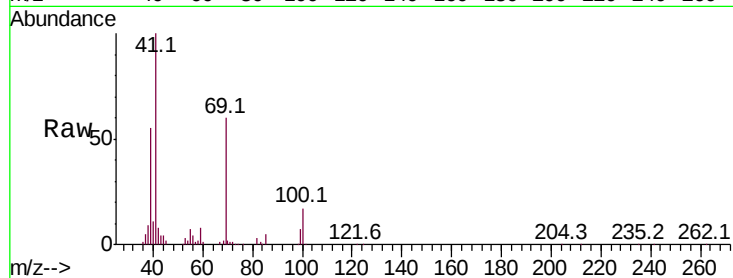
#43
Methvl Methacrylate
Concen: 1.052 ppbv
RT: 8.08 min Scan# 1599
Delta R.T. -0.00 min
Lab File: VL034122.D
Acq: 5 Sep 2019 3:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	177.4	131.0	196.6	
100	27.8	22.6	33.8	

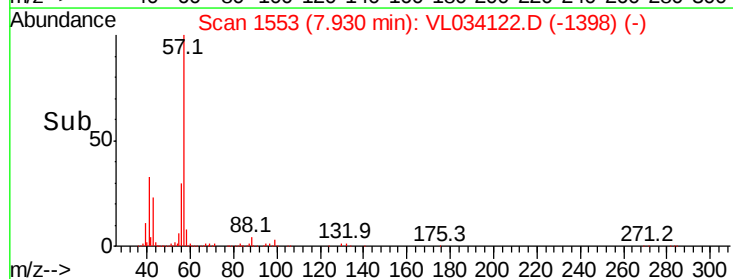
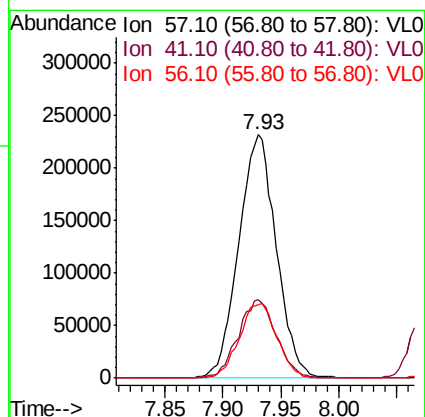
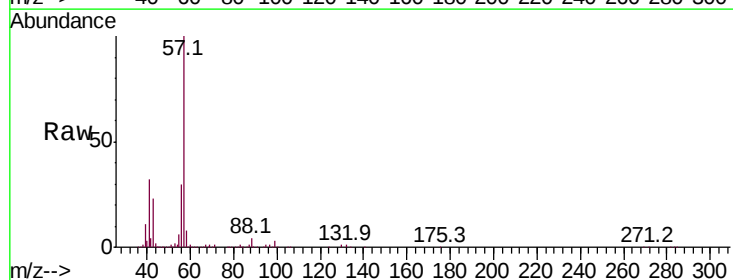
Manual Integrations
APPROVED

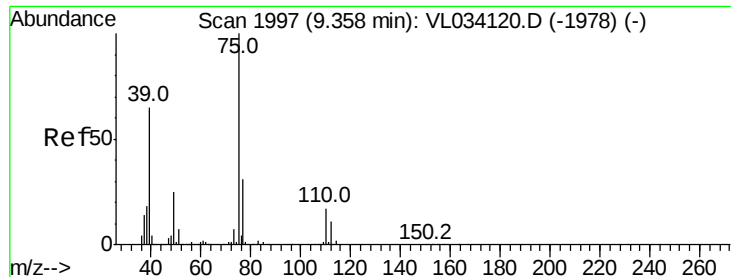
MMDadoda
9/12/2019 5:15:46 AM



#44
2,2,4-Trimethylpentane
Concen: 1.128 ppbv
RT: 7.93 min Scan# 1553
Delta R.T. -0.00 min
Lab File: VL034122.D
Acq: 5 Sep 2019 3:48

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	32.9	28.4	42.6	
56	30.7	26.3	39.5	





#45

t-1,3-Dichloropropene

Concen: 0.982 ppbv m

RT: 9.35 min Scan# 1994

Delta R.T. -0.01 min

Lab File: VL034122.D

Acq: 5 Sep 2019 3:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 75 Resp: 119415

Ion Ratio Lower Upper

75 100

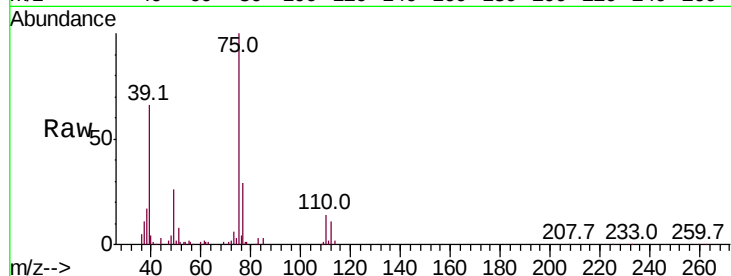
77 29.0 24.6 36.8

Manual Integrations

APPROVED

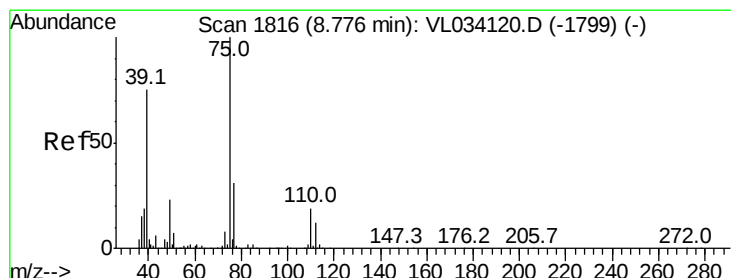
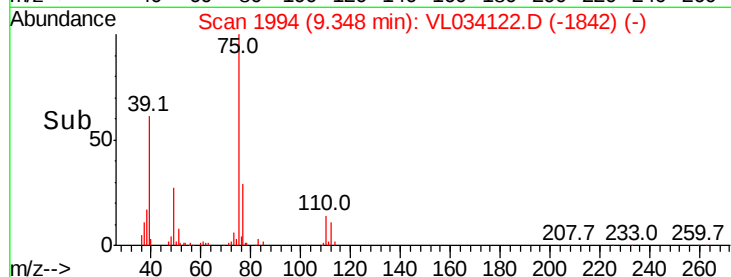
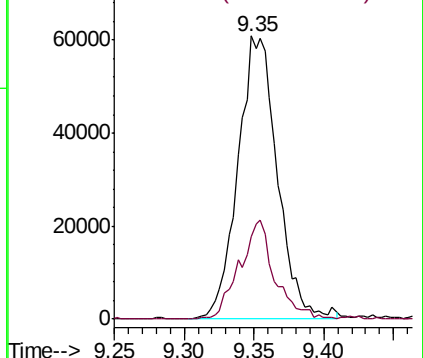
MMDadoda

9/12/2019 5:15:46 AM



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 1.057 ppbv

RT: 8.77 min Scan# 1815

Delta R.T. -0.00 min

Lab File: VL034122.D

Acq: 5 Sep 2019 3:48

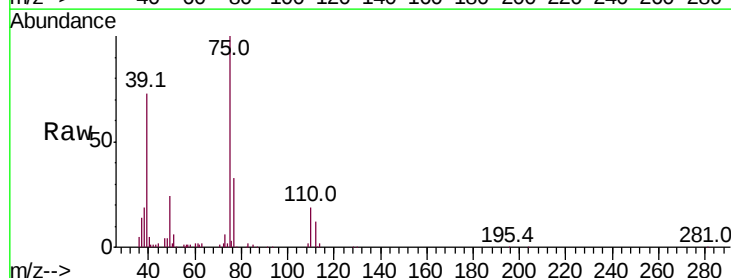
Tgt Ion: 75 Resp: 156479

Ion Ratio Lower Upper

75 100

39 72.5 60.0 90.0

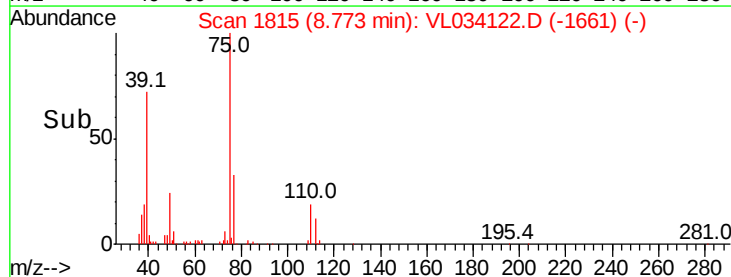
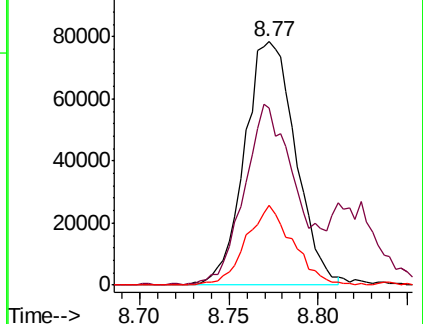
77 32.9 24.8 37.2

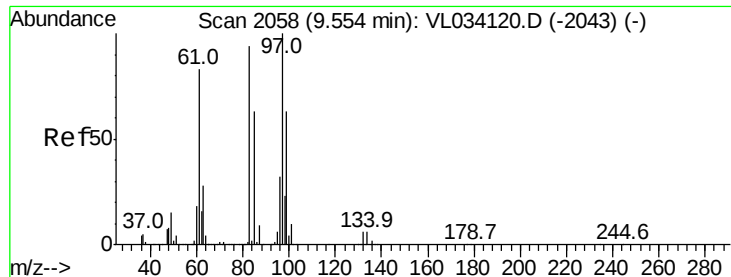


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





#47

1,1,2-Trichloroethane

Concen: 1.055 ppbv

RT: 9.55 min Scan# 2056

Delta R.T. -0.01 min

Lab File: VL034122.D

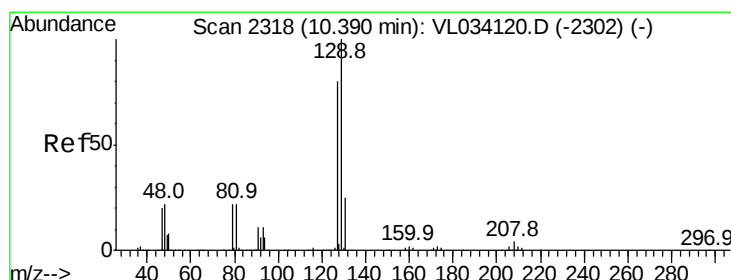
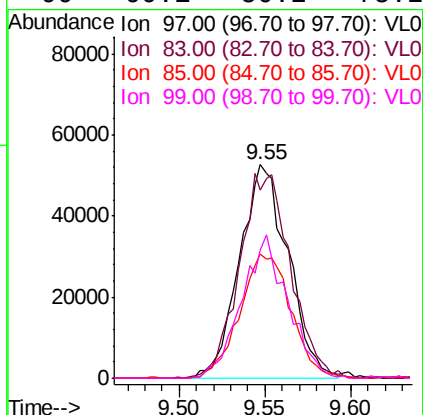
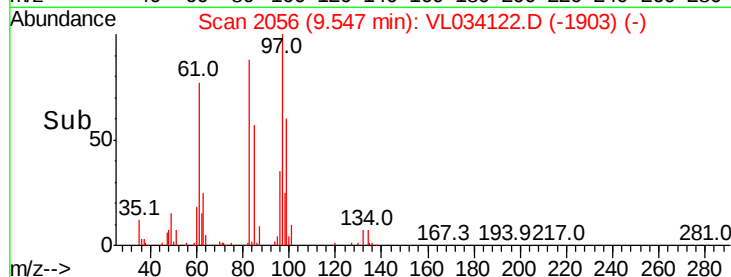
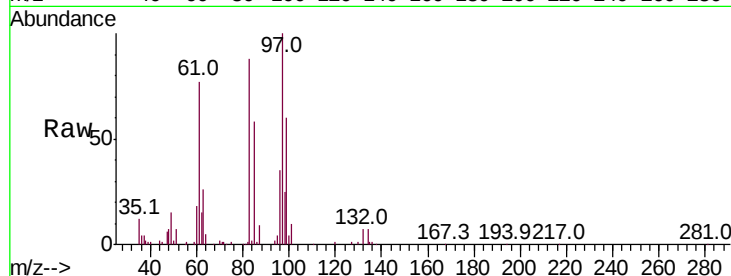
Acq: 5 Sep 2019 3:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		103297		
83	87.4	74.9	112.3		
85	58.1	50.6	75.8		
99	60.1	50.2	75.2		

Manual Integrations
APPROVED

MMDadoda
9/12/2019 5:15:46 AM



#48

Dibromochloromethane

Concen: 1.060 ppbv

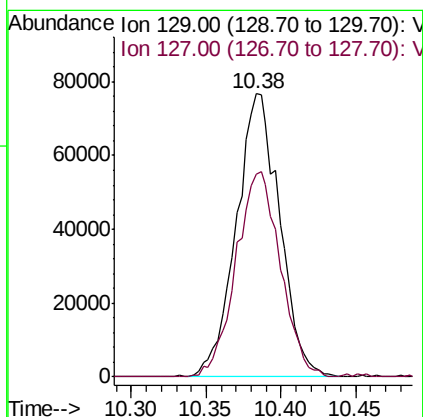
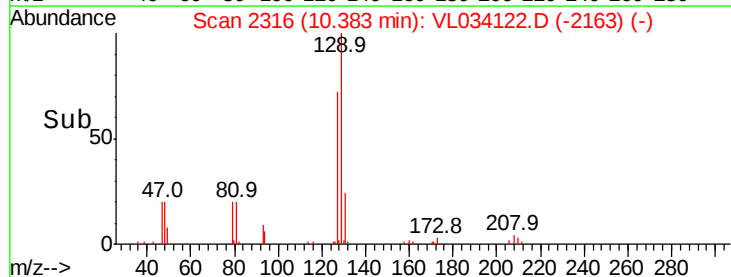
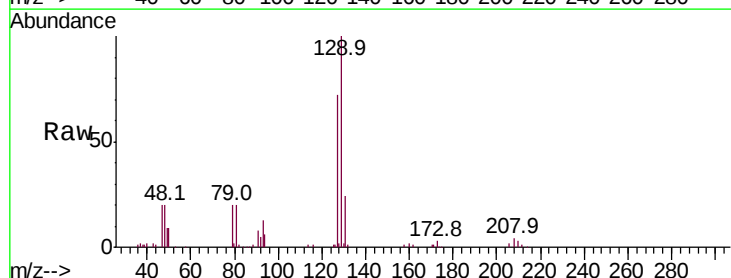
RT: 10.38 min Scan# 2316

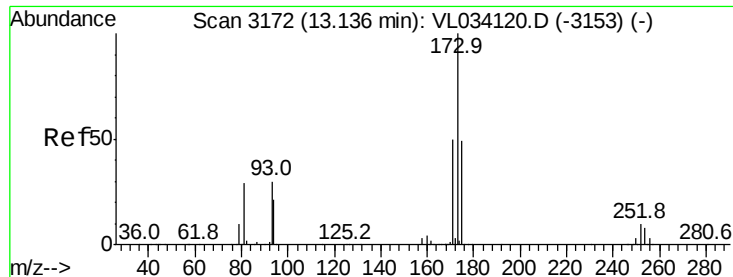
Delta R.T. -0.01 min

Lab File: VL034122.D

Acq: 5 Sep 2019 3:48

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		155069		
127	74.8	40.2	120.6		





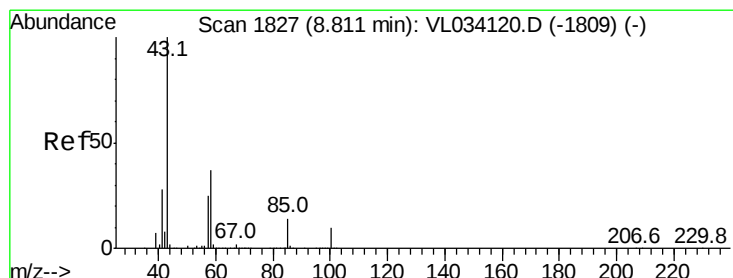
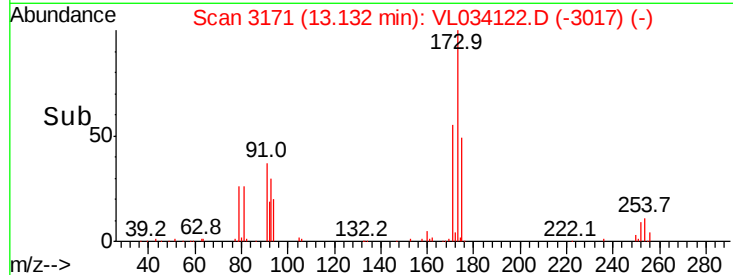
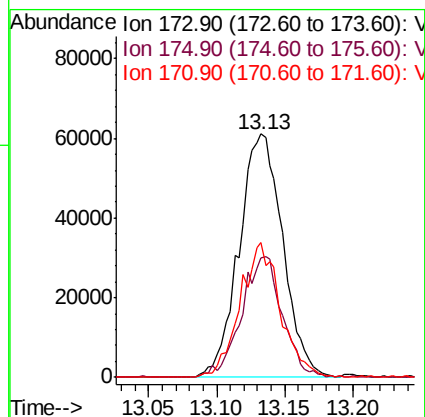
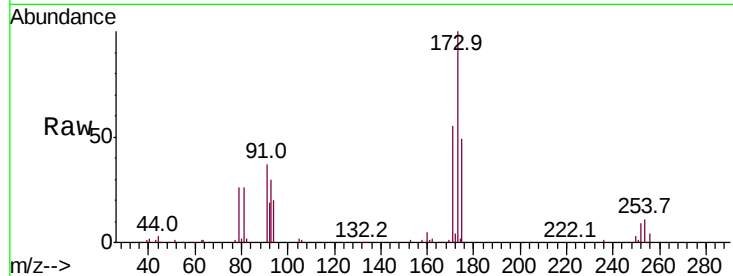
#49
Bromoform
Concen: 1.060 ppbv
RT: 13.13 min Scan# 3171
Delta R.T. -0.00 min
Lab File: VL034122.D
Acq: 5 Sep 2019 3:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
173	100		
175	46.7	40.0	60.0
171	51.2	42.2	63.2

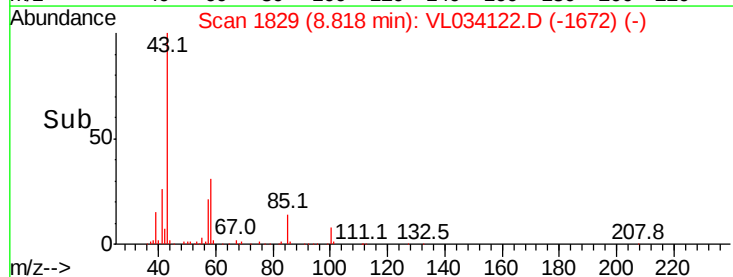
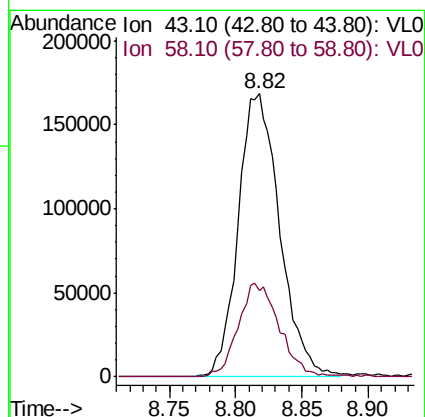
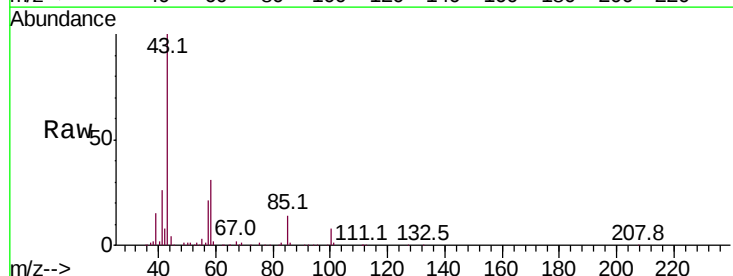
Manual Integrations
APPROVED

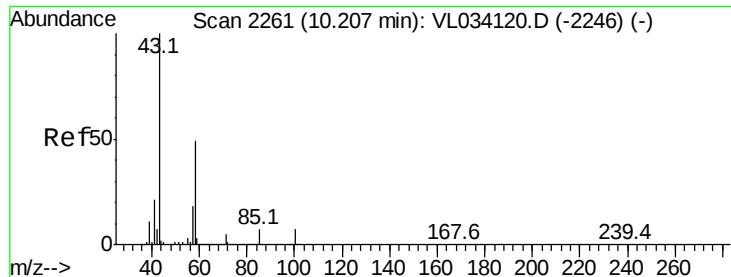
MMDadoda
9/12/2019 5:15:46 AM



#50
4-Methyl-2-Pentanone
Concen: 1.136 ppbv
RT: 8.82 min Scan# 1829
Delta R.T. 0.01 min
Lab File: VL034122.D
Acq: 5 Sep 2019 3:48

Tgt Ion	Ratio	Lower	Upper
43	100		
58	33.1	28.5	42.7





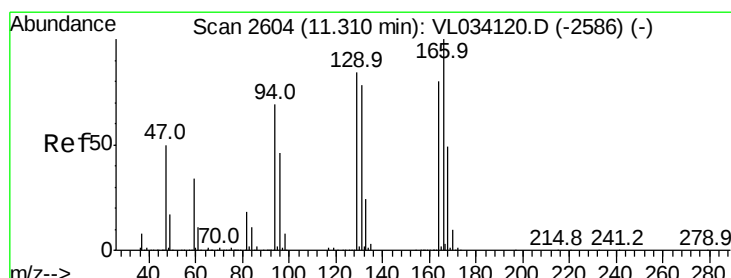
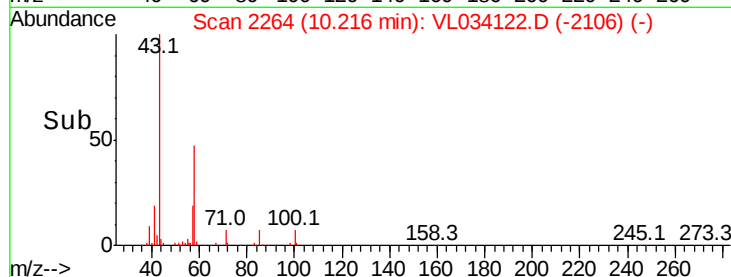
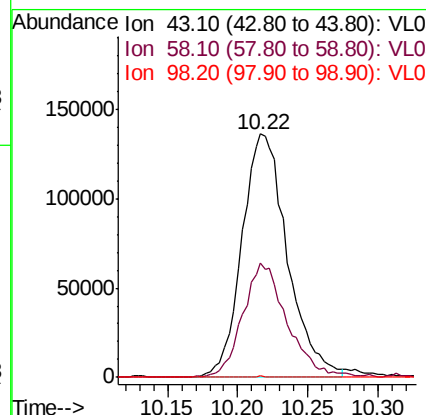
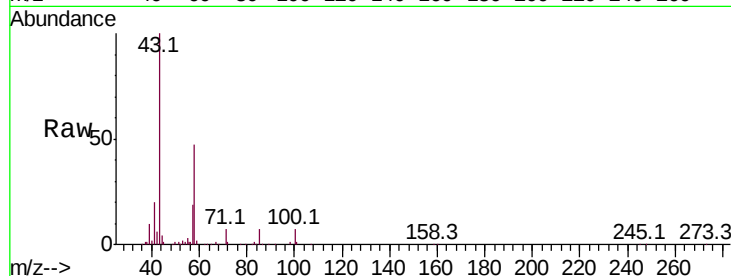
#51
2-Hexanone
Concen: 1.110 ppbv
RT: 10.22 min Scan# 2264
Delta R.T. 0.01 min
Lab File: VL034122.D
Acq: 5 Sep 2019 3:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
43	100		
58	46.0	38.2	57.2
98	0.1	0.1	0.1#

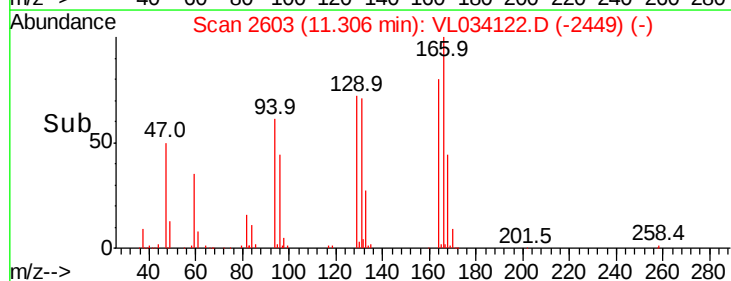
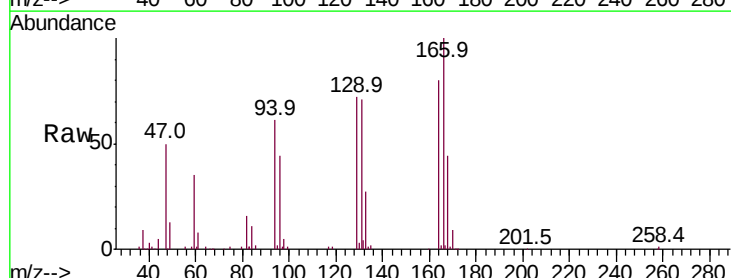
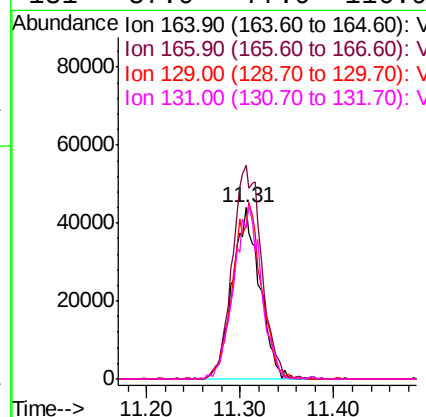
Manual Integrations
APPROVED

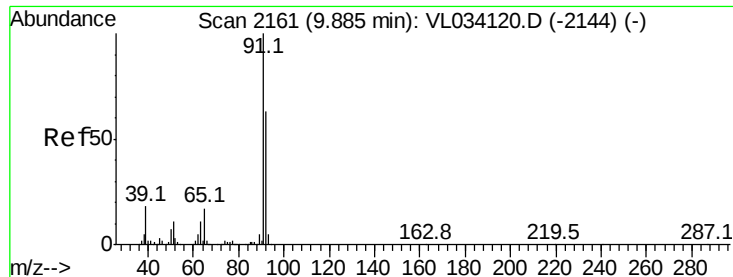
MMDadoda
9/12/2019 5:15:46 AM



#52
Tetrachloroethene
Concen: 1.010 ppbv m
RT: 11.31 min Scan# 2603
Delta R.T. -0.00 min
Lab File: VL034122.D
Acq: 5 Sep 2019 3:48

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.7	99.5	149.3
129	89.7	83.6	125.4
131	87.9	77.9	116.9





#53

Toluene

Concen: 1.080 ppbv

RT: 9.89 min Scan# 2161

Delta R.T. -0.00 min

Lab File: VL034122.D

Acq: 5 Sep 2019 3:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 300317

Ion Ratio Lower Upper

91 100

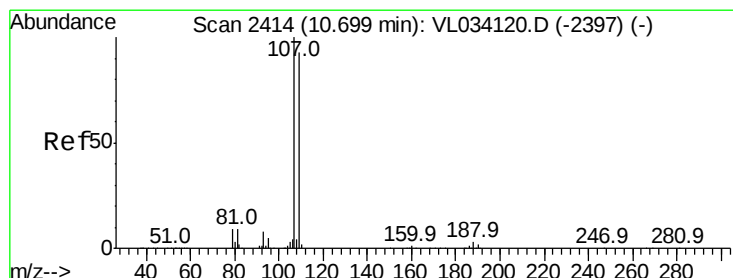
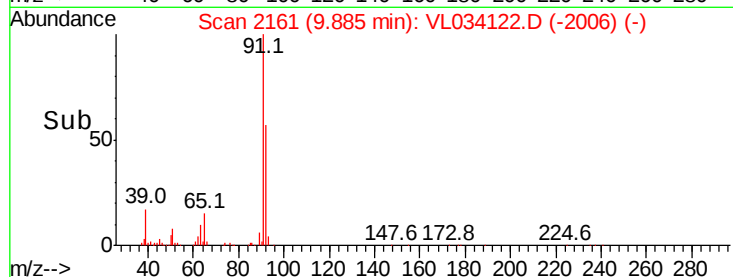
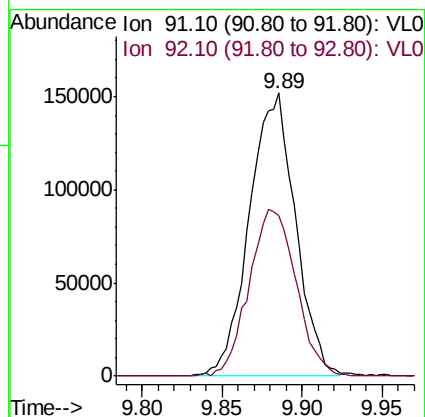
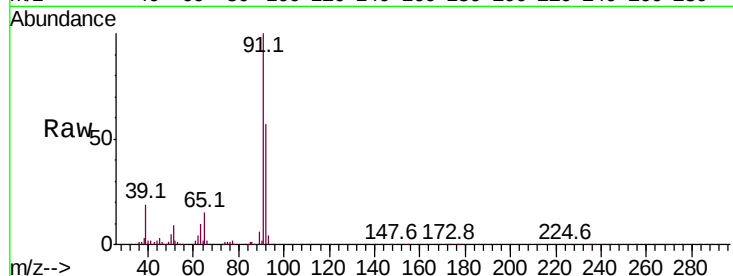
92 60.3 49.3 73.9

Manual Integrations

APPROVED

MMDadoda

9/12/2019 5:15:46 AM



#54

1,2-Dibromoethane

Concen: 1.072 ppbv

RT: 10.69 min Scan# 2412

Delta R.T. -0.01 min

Lab File: VL034122.D

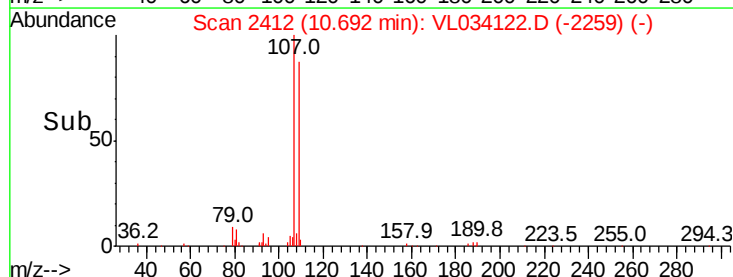
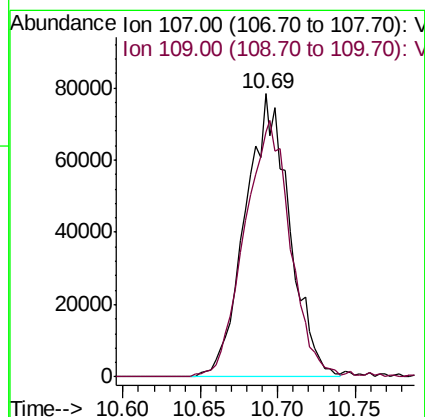
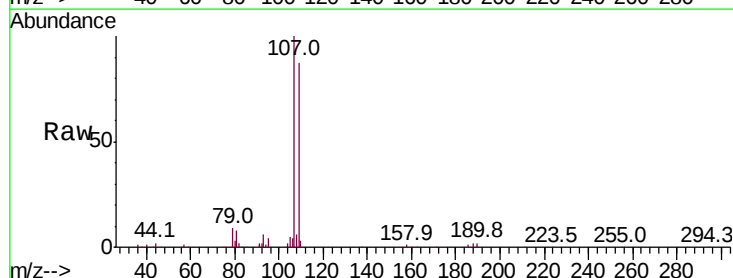
Acq: 5 Sep 2019 3:48

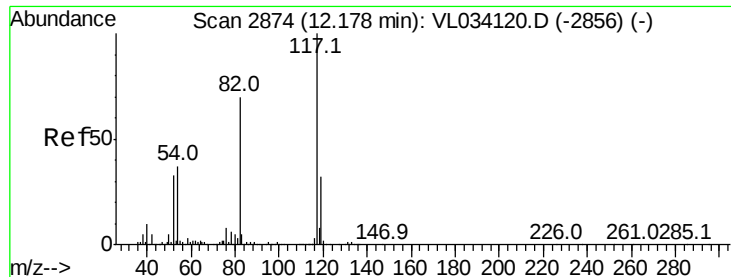
Tgt Ion: 107 Resp: 156063

Ion Ratio Lower Upper

107 100

109 86.7 74.5 111.7





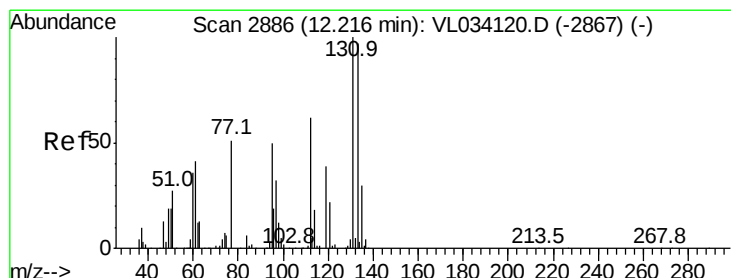
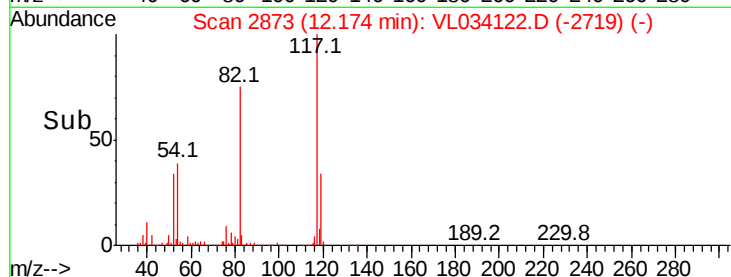
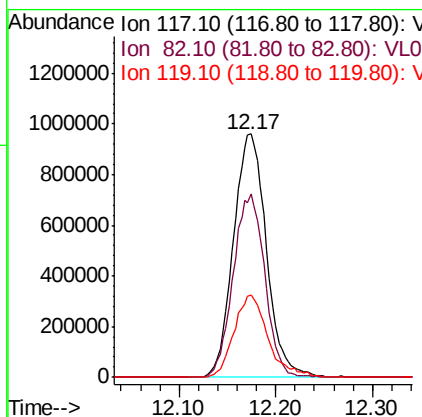
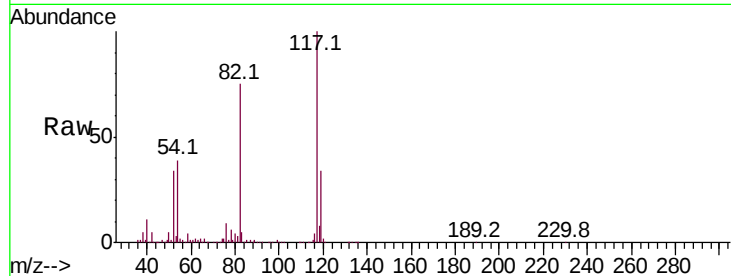
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.17 min Scan# 2873
Delta R.T. -0.00 min
Lab File: VL034122.D
Acq: 5 Sep 2019 3:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
117	100		
82	72.3	55.8	83.6
119	35.0	43.1	64.7#

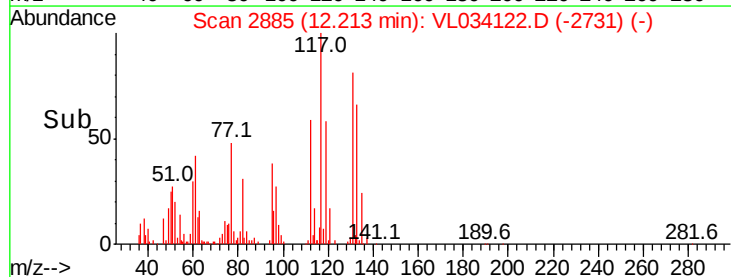
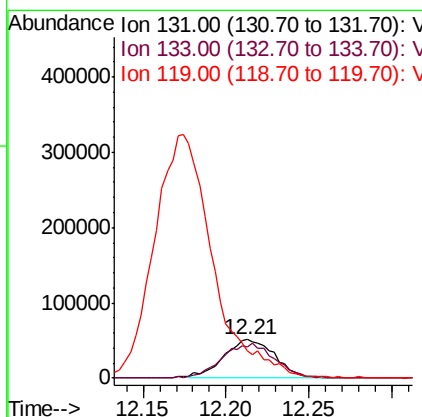
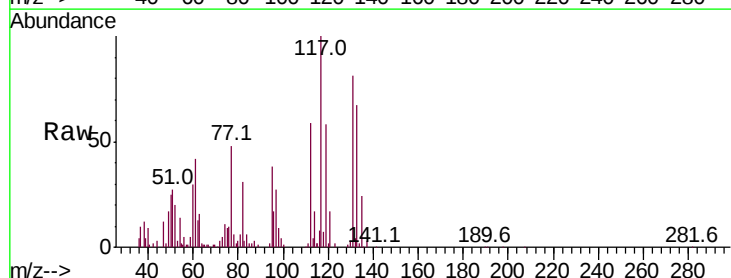
Manual Integrations
APPROVED

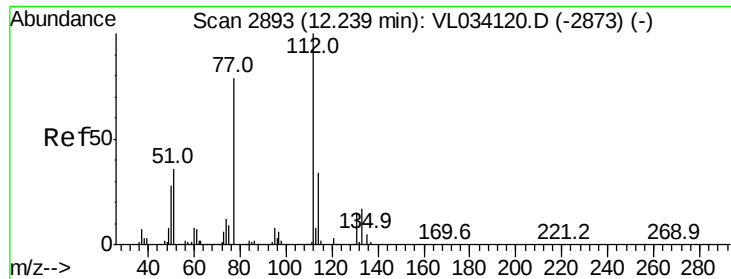
MMDadoda
9/12/2019 5:15:46 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 1.117 ppbv
RT: 12.21 min Scan# 2885
Delta R.T. -0.00 min
Lab File: VL034122.D
Acq: 5 Sep 2019 3:48

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.0	75.8	113.6
119	729.9	114.7	172.1#





#57

Chlorobenzene

Concen: 1.125 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.00 min

Lab File: VL034122.D

Acq: 5 Sep 2019 3:48

Instrument :

MSVOA_L

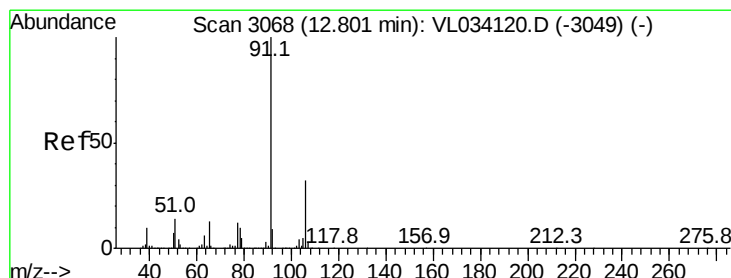
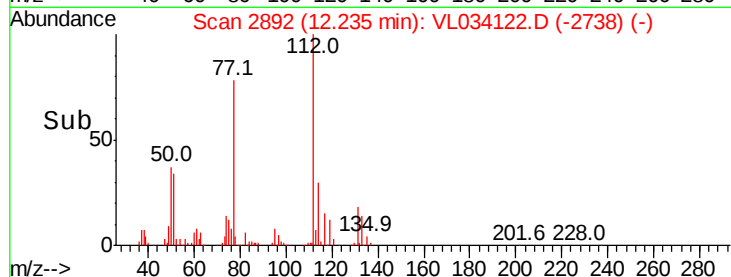
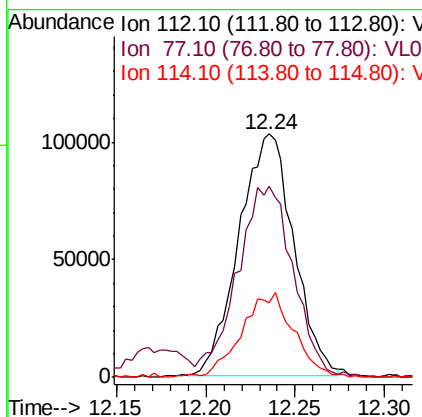
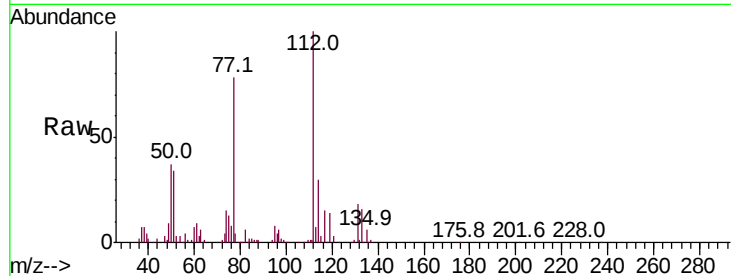
ClientSampleId :

VSTDIC001

Tot Ion:	112	Resp:	220168
Ion Ratio	Lower	Upper	
112	100		
77	77.5	64.4	96.6
114	29.5	30.3	37.1#

Manual Integrations
APPROVED

MMDadoda
9/12/2019 5:15:46 AM



#58

Ethyl Benzene

Concen: 1.148 ppbv

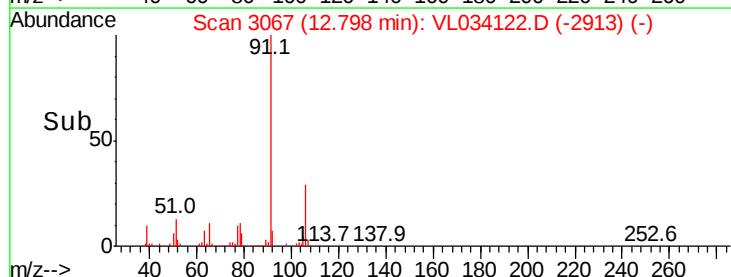
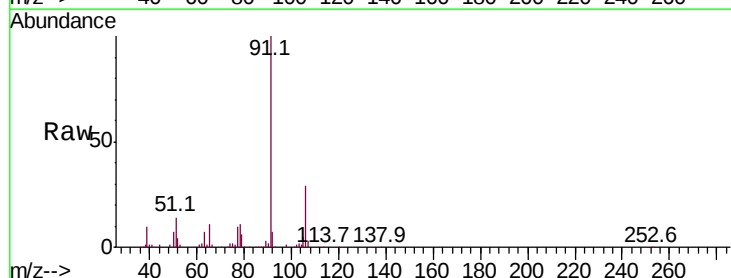
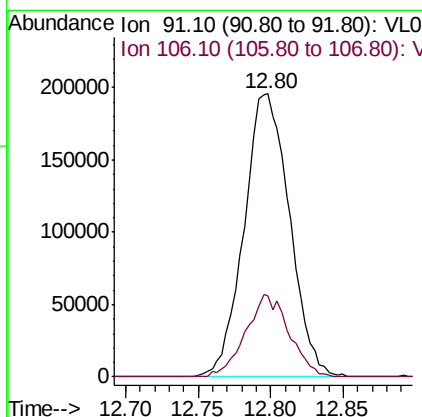
RT: 12.80 min Scan# 3067

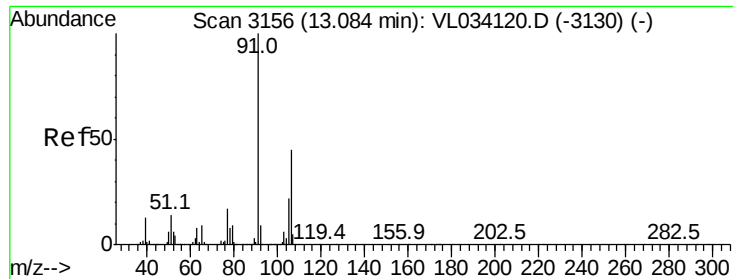
Delta R.T. -0.00 min

Lab File: VL034122.D

Acq: 5 Sep 2019 3:48

Tgt Ion:	91	Resp:	427915
Ion Ratio	Lower	Upper	
91	100		
106	28.7	25.3	37.9





#59

m/p-Xylene

Concen: 2.348 ppbv m

RT: 13.05 min Scan# 3146

Delta R.T. -0.03 min

Lab File: VL034122.D

Acq: 5 Sep 2019 3:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 713069

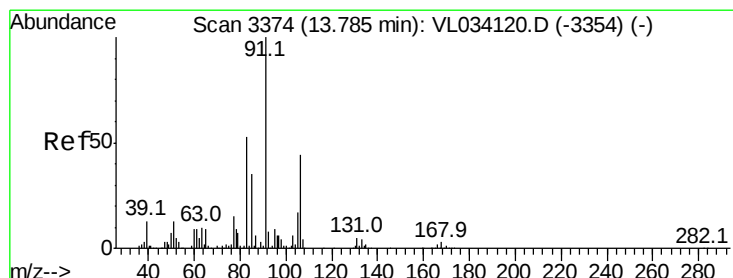
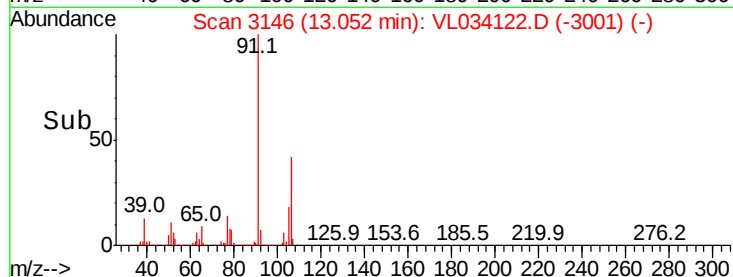
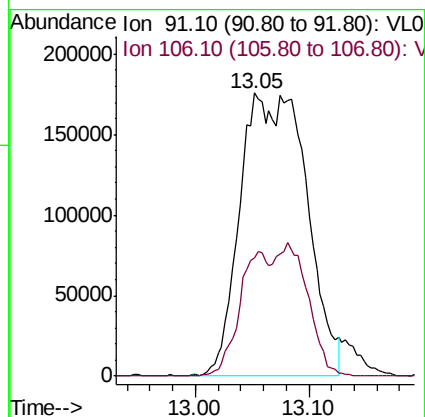
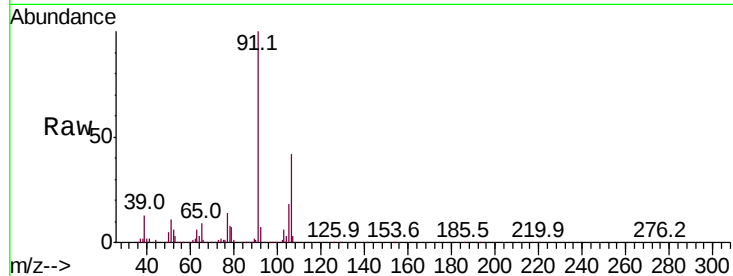
Ion Ratio Lower Upper

91 100

106 43.7 35.4 53.2

Manual Integrations
APPROVED

MMDadoda
9/12/2019 5:15:46 AM



#60

o-Xylene

Concen: 1.146 ppbv

RT: 13.79 min Scan# 3374

Delta R.T. -0.00 min

Lab File: VL034122.D

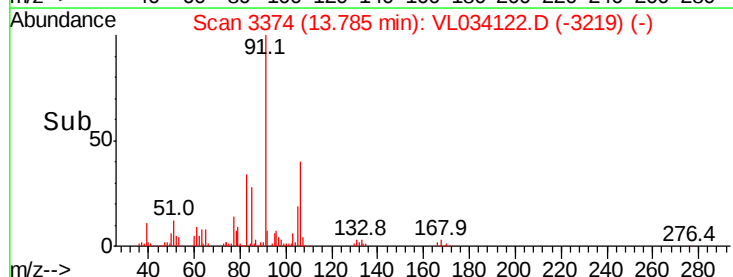
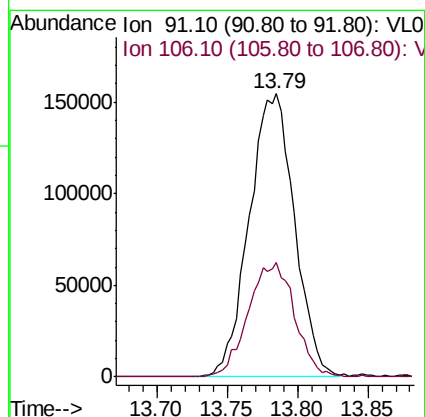
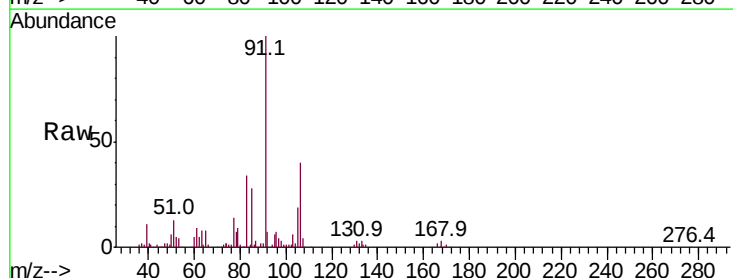
Acq: 5 Sep 2019 3:48

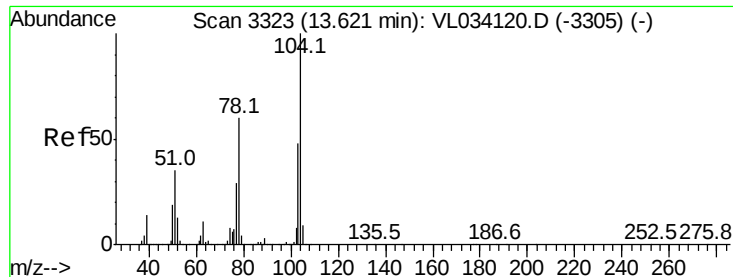
Tgt Ion: 91 Resp: 347396

Ion Ratio Lower Upper

91 100

106 41.2 21.4 64.3





#61

Stvrene

Concen: 1.108 ppbv

RT: 13.62 min Scan# 3322

Delta R.T. -0.00 min

Lab File: VL034122.D

Acq: 5 Sep 2019 3:48

Instrument :

MSVOA_L

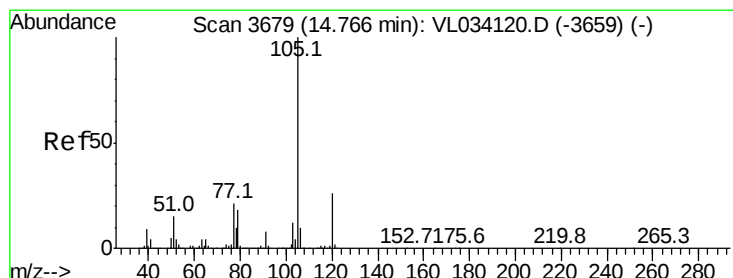
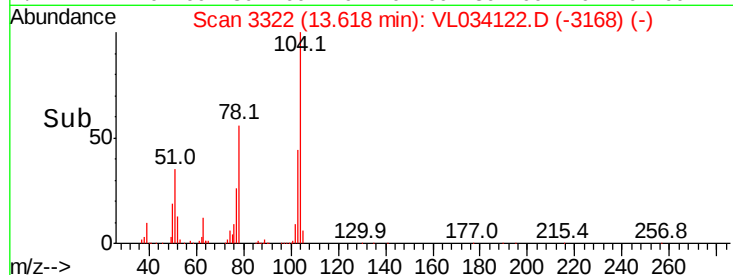
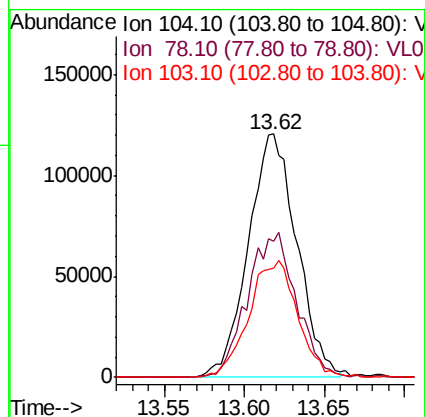
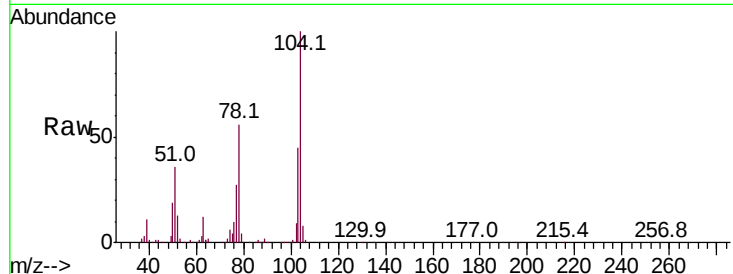
ClientSampleId :

VSTDIC001

Tot Ion:	104	Resp:	251103
Ion Ratio	Lower	Upper	
104	100		
78	60.0	47.8	71.6
103	48.4	38.7	58.1

Manual Integrations
APPROVED

MMDadoda
9/12/2019 5:15:46 AM



#62

Isopropylbenzene

Concen: 1.179 ppbv m

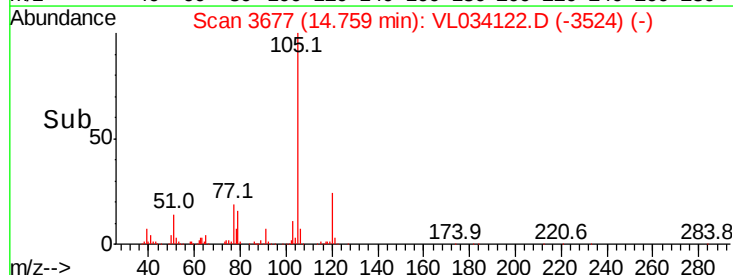
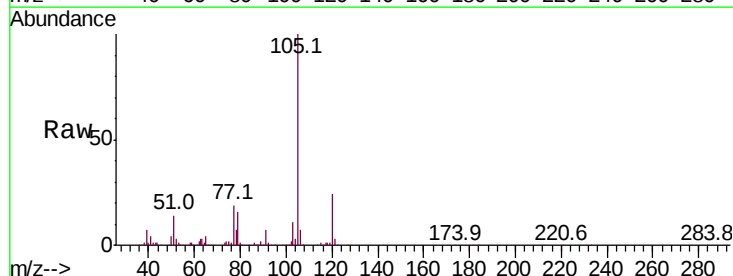
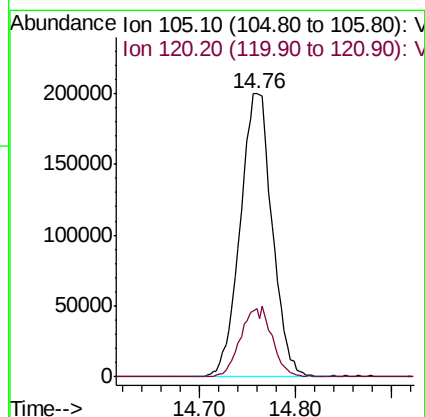
RT: 14.76 min Scan# 3677

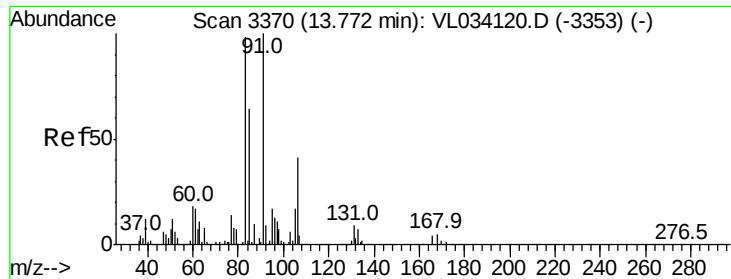
Delta R.T. -0.01 min

Lab File: VL034122.D

Acq: 5 Sep 2019 3:48

Tgt Ion:	105	Resp:	464939
Ion Ratio	Lower	Upper	
105	100		
120	24.1	20.6	31.0





#63

1,1,2,2-Tetrachloroethane

Concen: 1.027 ppbv

RT: 13.77 min Scan# 3370

Delta R.T. -0.00 min

Lab File: VL034122.D

Acq: 5 Sep 2019 3:48

Instrument :

MSVOA_L

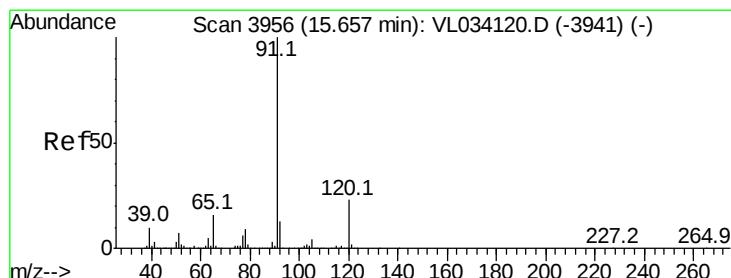
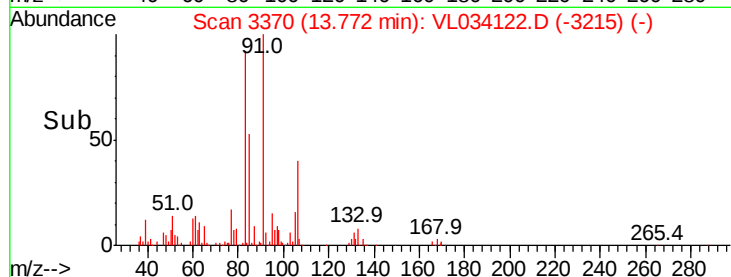
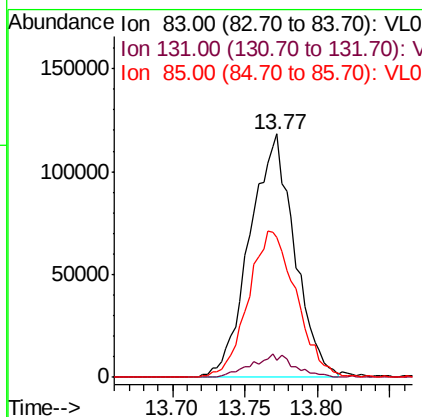
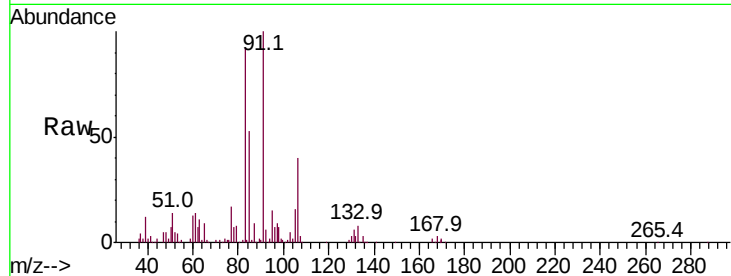
ClientSampleId :

VSTDIC001

Tot Ion:	83	Resp:	254843
Ion Ratio	Lower	Upper	
83	100		
131	9.2	4.3	12.8
85	64.6	32.5	97.5

Manual Integrations
APPROVED

MMDadoda
9/12/2019 5:15:46 AM



#64

n-propylbenzene

Concen: 1.131 ppbv

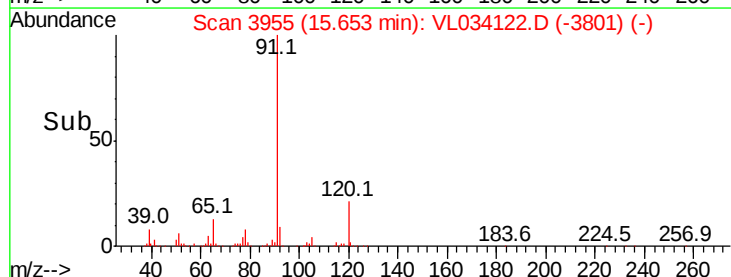
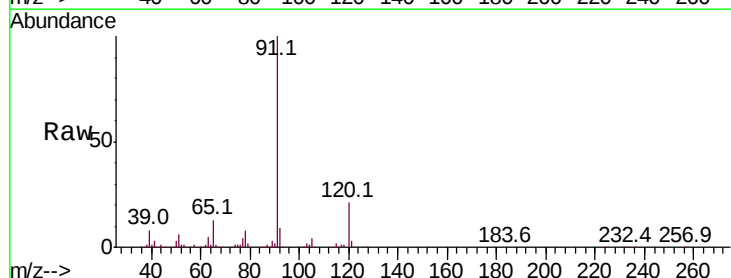
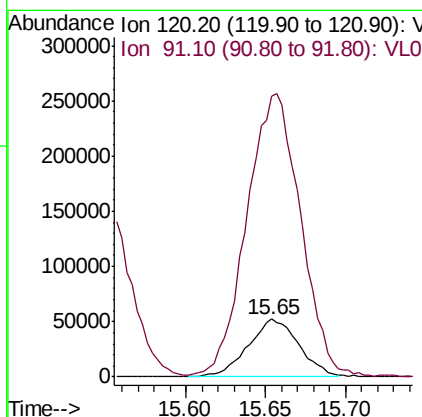
RT: 15.65 min Scan# 3955

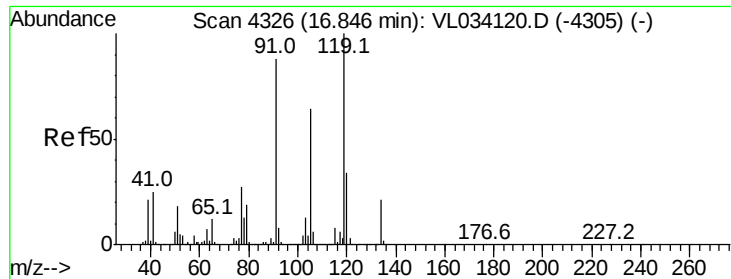
Delta R.T. -0.00 min

Lab File: VL034122.D

Acq: 5 Sep 2019 3:48

Tgt Ion:	120	Resp:	113356
Ion Ratio	Lower	Upper	
120	100		
91	527.3	376.8	565.2





#65

tert-Butylbenzene

Concen: 1.184 ppbv

RT: 16.84 min Scan# 4323

Delta R.T. -0.01 min

Lab File: VL034122.D

Acq: 5 Sep 2019 3:48

Instrument :

MSVOA_L

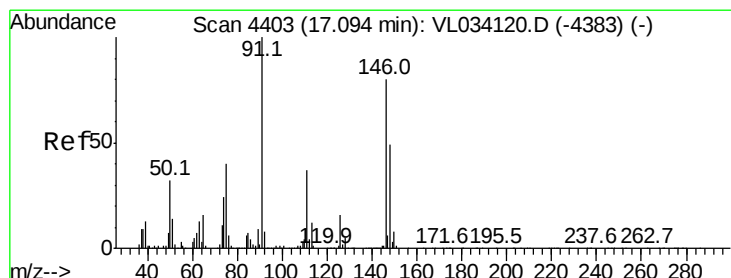
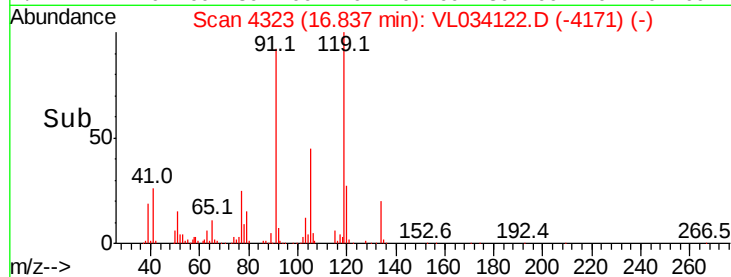
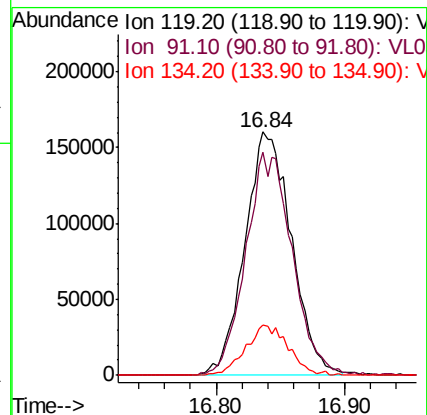
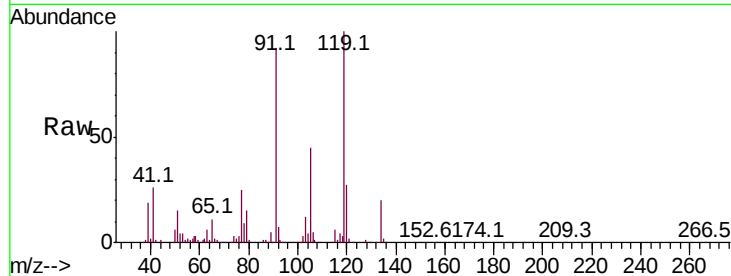
ClientSampleId :

VSTDIC001

Tot Ion:	119	Resp:	402251
Ion Ratio	Lower	Upper	
119	100		
91	91.7	72.8	109.2
134	19.1	15.8	23.8

Manual Integrations
APPROVED

MMDadoda
9/12/2019 5:15:46 AM



#66

Benzyl Chloride

Concen: 0.862 ppbv

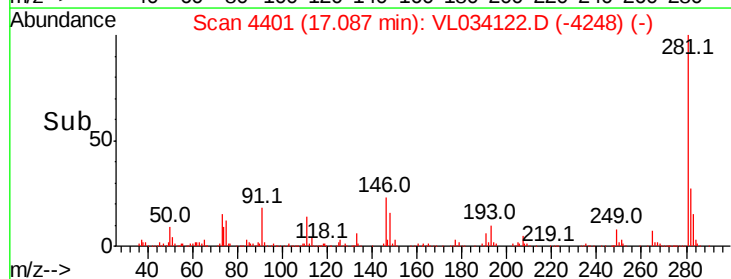
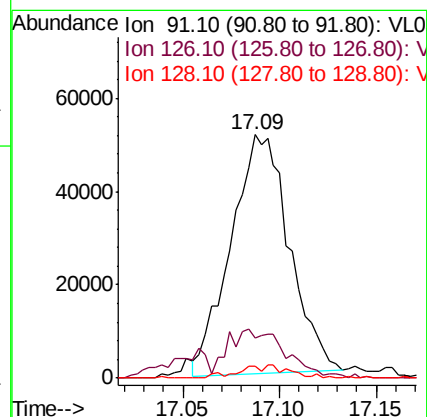
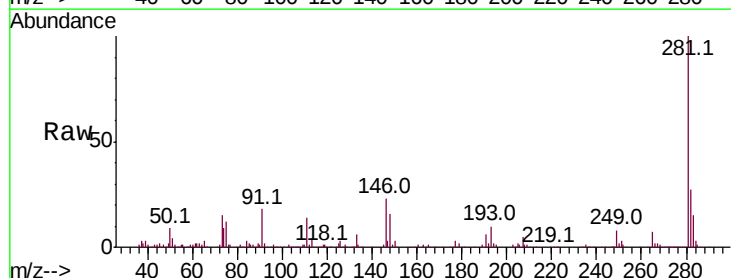
RT: 17.09 min Scan# 4401

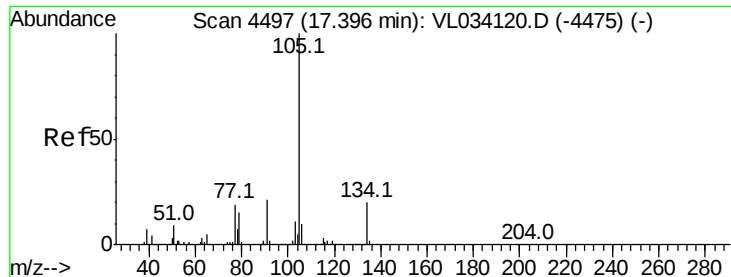
Delta R.T. -0.01 min

Lab File: VL034122.D

Acq: 5 Sep 2019 3:48

Tgt Ion:	91	Resp:	107890
Ion Ratio	Lower	Upper	
91	100		
126	28.0	13.7	20.5#
128	4.8	4.2	6.4





#67

sec-Butylbenzene

Concen: 1.194 ppbv

RT: 17.39 min Scan# 4495

Delta R.T. -0.01 min

Lab File: VL034122.D

Acq: 5 Sep 2019 3:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 105 Resp: 584166

Ion Ratio Lower Upper

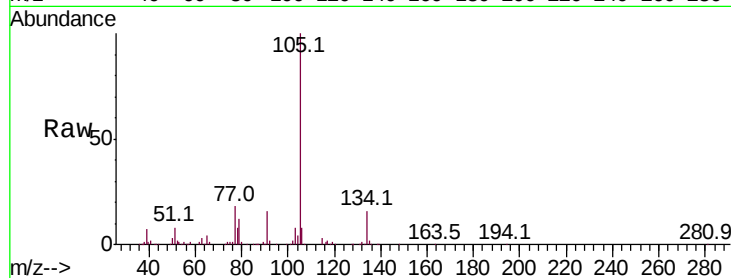
105 100

134 16.7 15.0 22.4

Manual Integrations
APPROVED

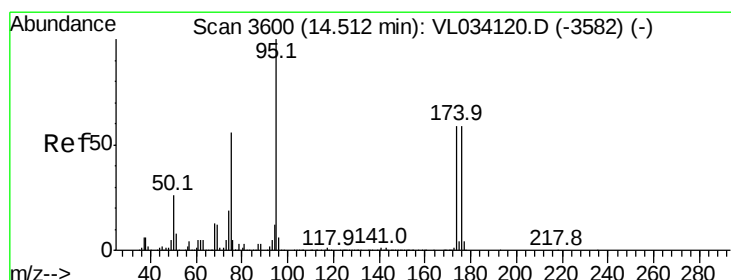
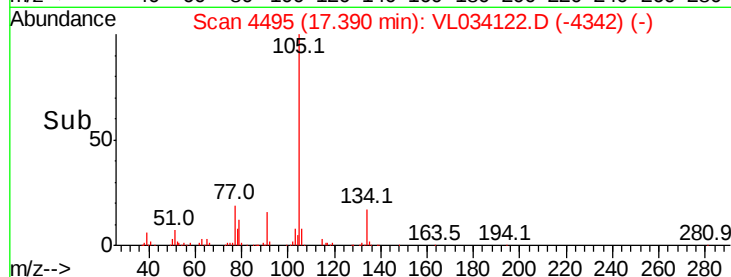
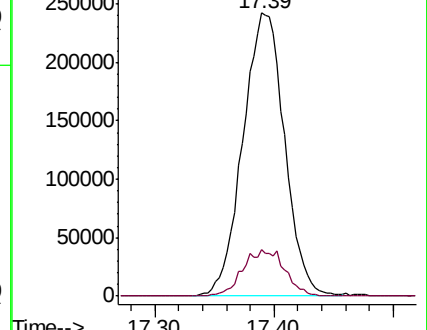
MMDadoda

9/12/2019 5:15:46 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.031 ppbv

RT: 14.51 min Scan# 3598

Delta R.T. -0.01 min

Lab File: VL034122.D

Acq: 5 Sep 2019 3:48

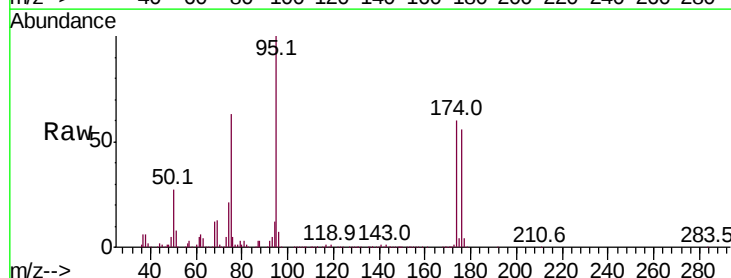
Tgt Ion: 95 Resp: 1866317

Ion Ratio Lower Upper

95 100

174 60.8 48.1 72.1

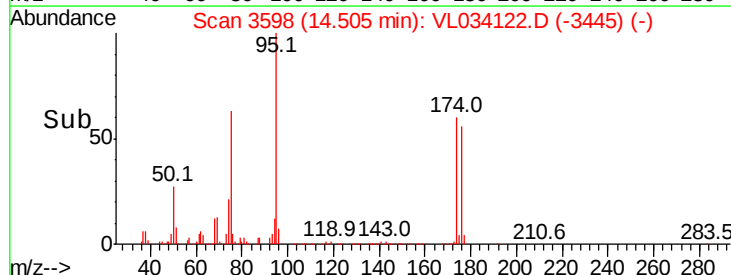
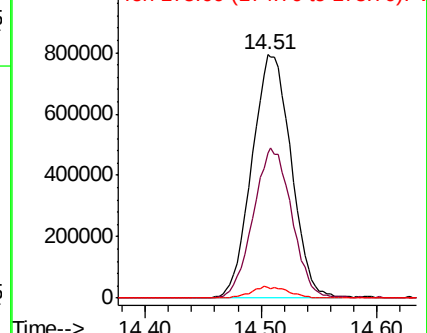
175 4.5 3.5 5.3

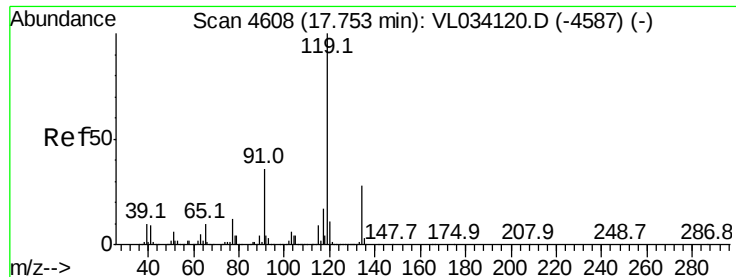


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





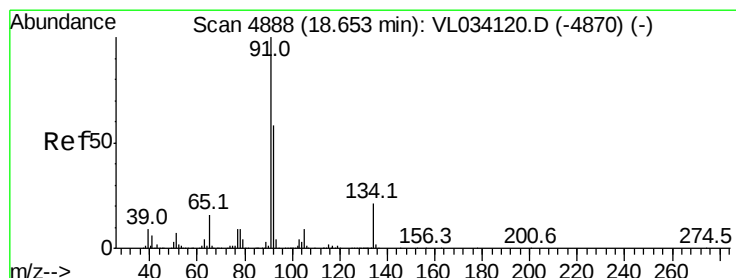
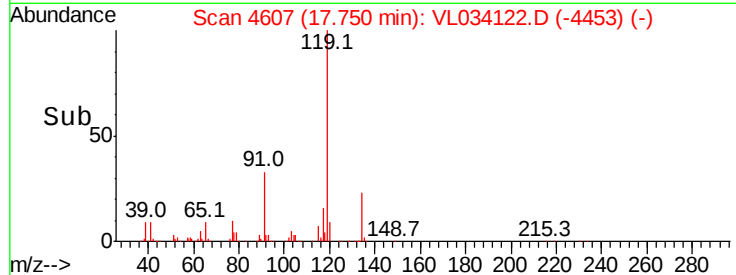
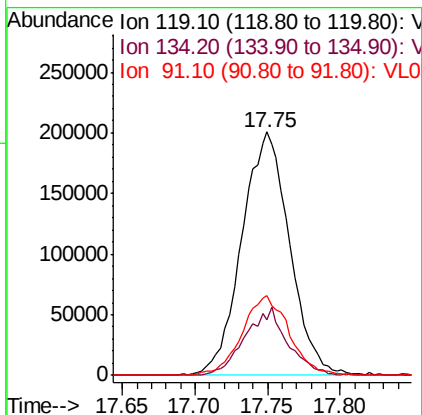
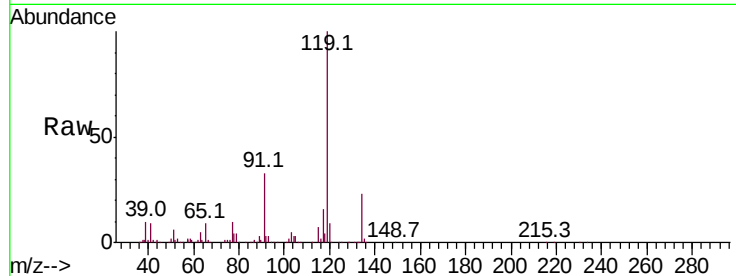
#69
 p-Isopropyltoluene
 Concen: 1.170 ppbv
 RT: 17.75 min Scan# 4607
 Delta R.T. -0.00 min
 Lab File: VL034122.D
 Acq: 5 Sep 2019 3:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion:	119	Resp:	457236
Ion Ratio	Lower	Upper	
119	100		
134	25.1	20.8	31.2
91	32.7	27.2	40.8

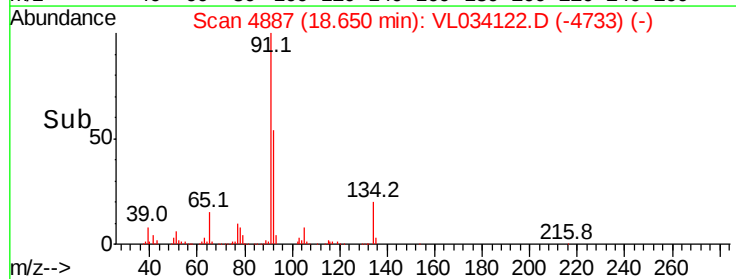
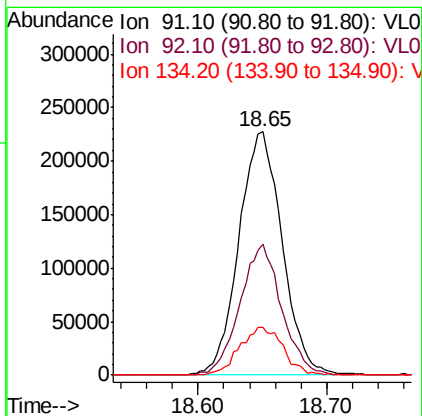
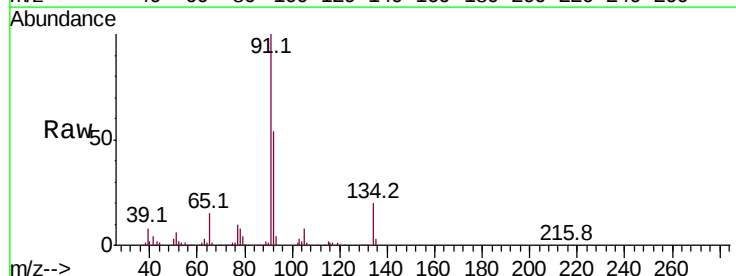
Manual Integrations
 APPROVED

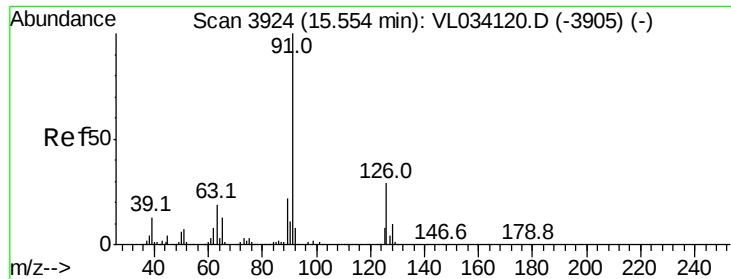
MMDadoda
 9/12/2019 5:15:46 AM



#70
 n-Butylbenzene
 Concen: 1.185 ppbv
 RT: 18.65 min Scan# 4887
 Delta R.T. -0.00 min
 Lab File: VL034122.D
 Acq: 5 Sep 2019 3:48

Tgt Ion:	91	Resp:	528318
Ion Ratio	Lower	Upper	
91	100		
92	52.2	45.3	67.9
134	20.0	17.4	26.0





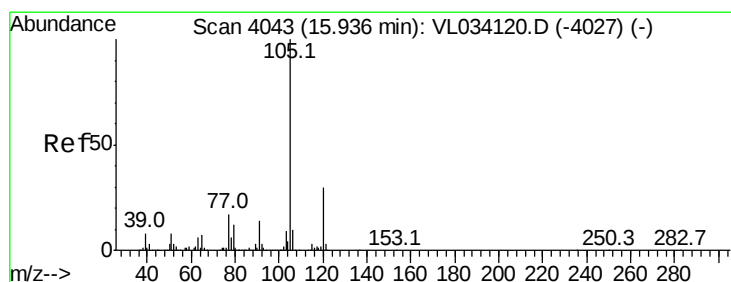
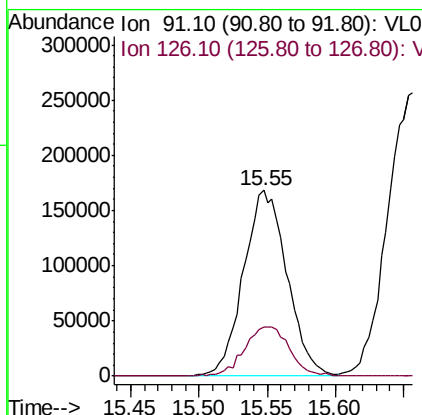
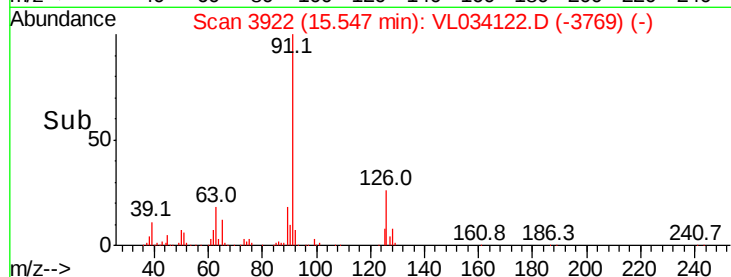
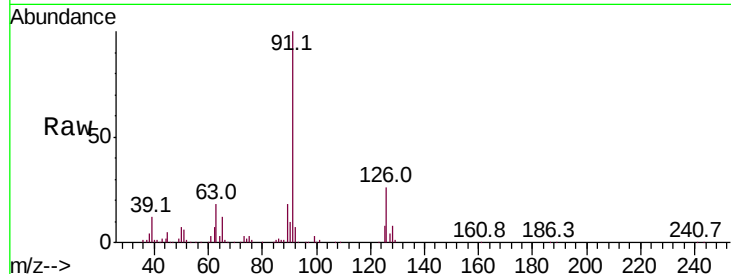
#71
2-Chlorotoluene
Concen: 1.157 ppbv
RT: 15.55 min Scan# 3922
Delta R.T. -0.01 min
Lab File: VL034122.D
Acq: 5 Sep 2019 3:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 91 Resp: 372965
Ion Ratio Lower Upper
91 100
126 27.3 11.4 45.4

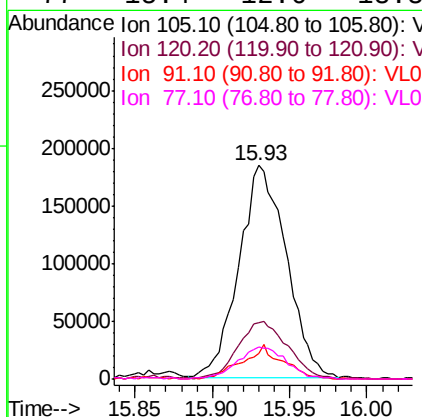
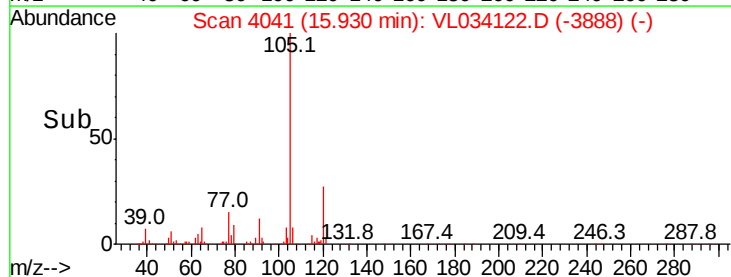
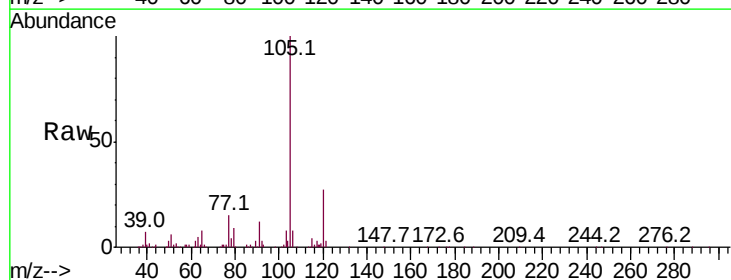
Manual Integrations
APPROVED

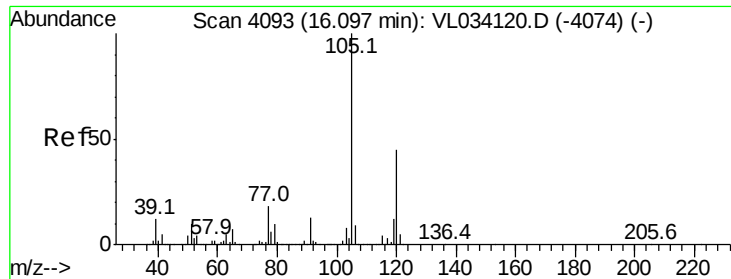
MMDadoda
9/12/2019 5:15:46 AM



#72
4-Ethyltoluene
Concen: 1.145 ppbv
RT: 15.93 min Scan# 4041
Delta R.T. -0.01 min
Lab File: VL034122.D
Acq: 5 Sep 2019 3:48

Tgt Ion: 105 Resp: 391853
Ion Ratio Lower Upper
105 100
120 27.9 23.8 35.6
91 13.8 11.4 17.0
77 15.4 12.6 18.8





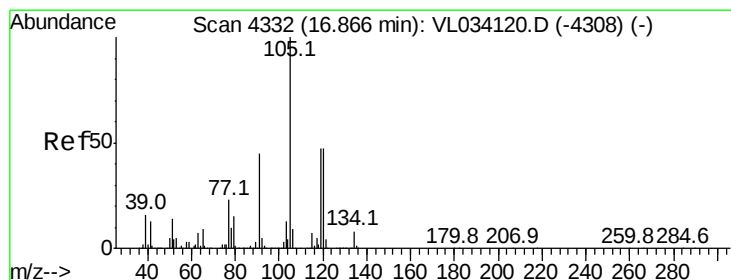
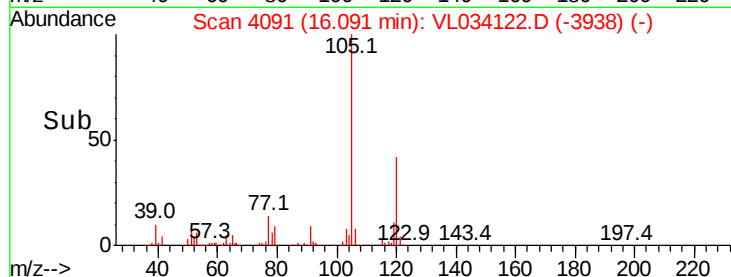
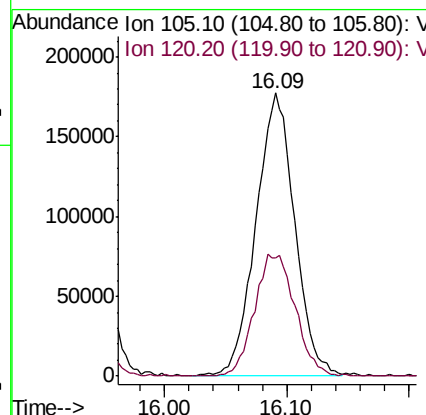
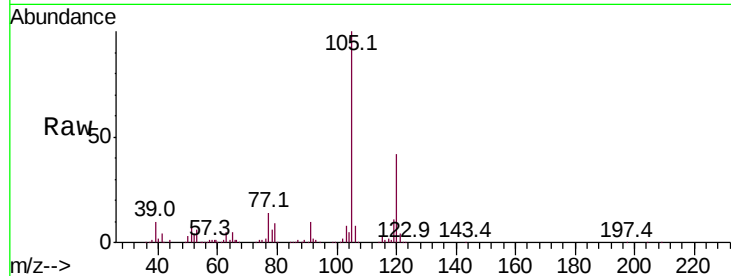
#73
 1,3,5-Trimethylbenzene
 Concen: 1.166 ppbv
 RT: 16.09 min Scan# 4091
 Delta R.T. -0.01 min
 Lab File: VL034122.D
 Acq: 5 Sep 2019 3:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
105	100		
120	41.9	35.8	53.8

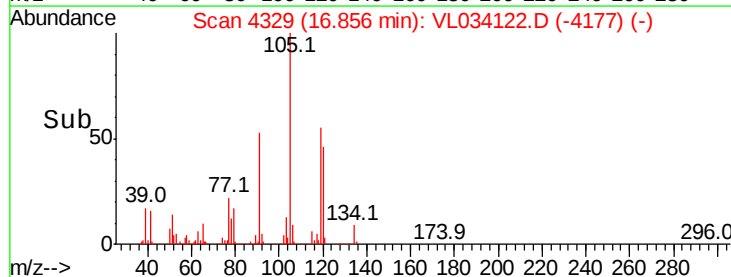
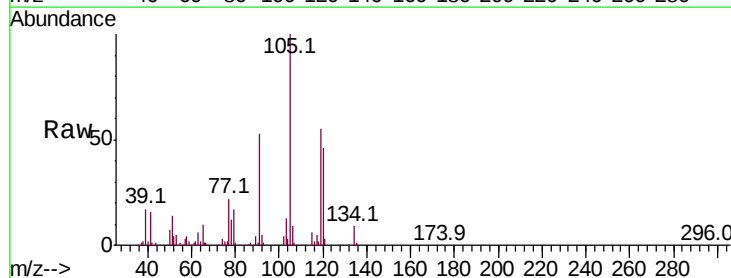
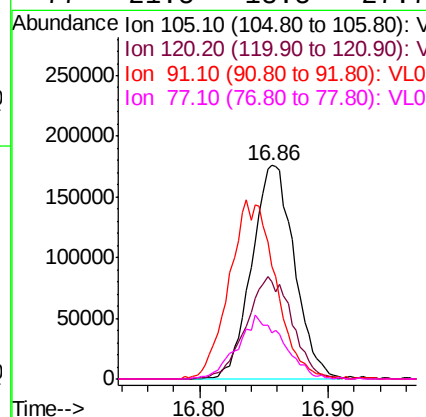
Manual Integrations
 APPROVED

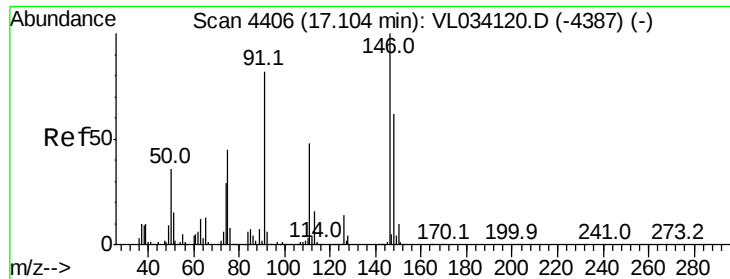
MMDadoda
 9/12/2019 5:15:46 AM



#74
 1,2,4-Trimethylbenzene
 Concen: 1.180 ppbv
 RT: 16.86 min Scan# 4329
 Delta R.T. -0.01 min
 Lab File: VL034122.D
 Acq: 5 Sep 2019 3:48

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.4	37.7	56.5
91	52.5	36.2	54.2
77	21.5	18.5	27.7





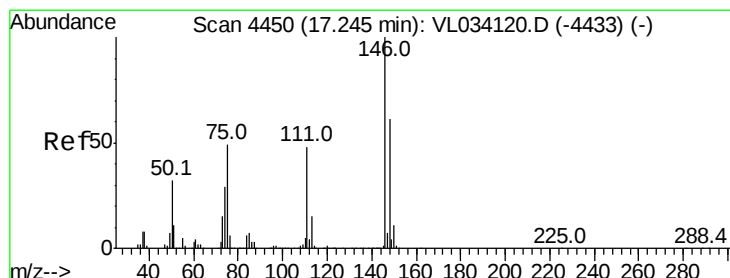
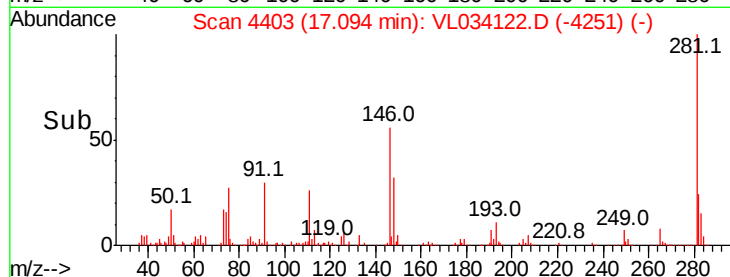
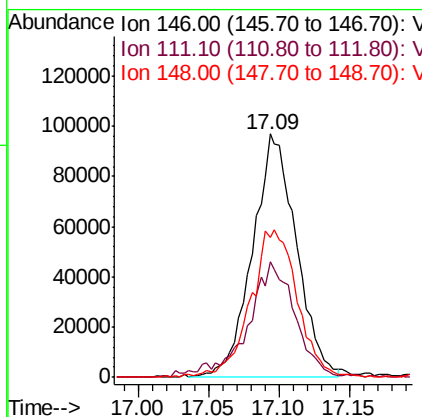
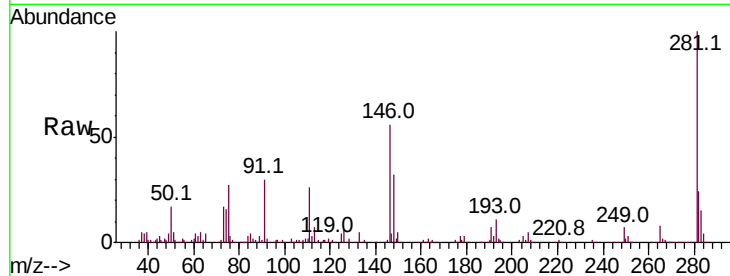
#75
 1,3-Dichlorobenzene
 Concen: 1.146 ppbv
 RT: 17.09 min Scan# 4403
 Delta R.T. -0.01 min
 Lab File: VL034122.D
 Acq: 5 Sep 2019 3:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
146	100		
111	52.3	24.9	74.7
148	65.8	32.5	97.5

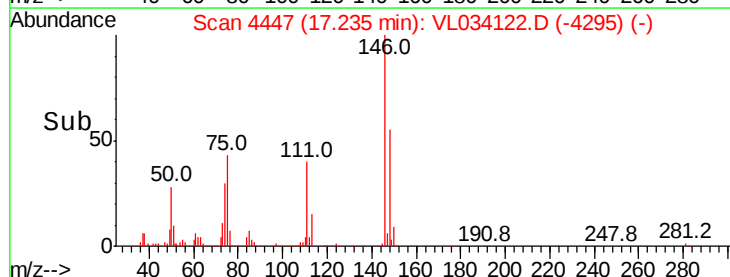
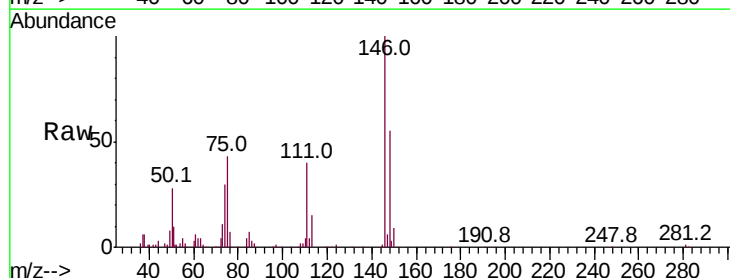
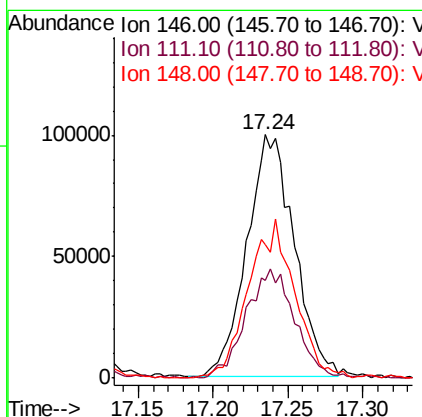
Manual Integrations
 APPROVED

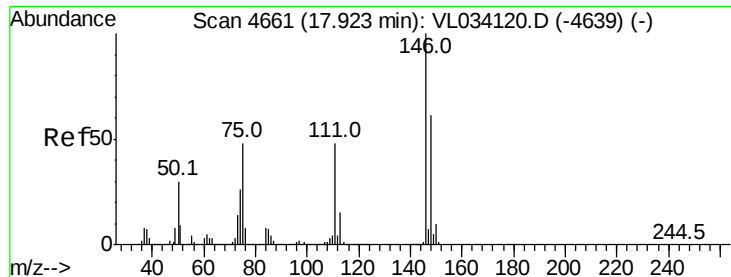
MMDadoda
 9/12/2019 5:15:46 AM



#76
 1,4-Dichlorobenzene
 Concen: 1.152 ppbv
 RT: 17.24 min Scan# 4447
 Delta R.T. -0.01 min
 Lab File: VL034122.D
 Acq: 5 Sep 2019 3:48

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.6	24.3	72.8
148	64.5	32.6	98.0





#77

1,2-Dichlorobenzene

Concen: 1.144 ppbv

RT: 17.92 min Scan# 4660

Delta R.T. -0.00 min

Lab File: VL034122.D

Acq: 5 Sep 2019 3:48

Instrument :

MSVOA_L

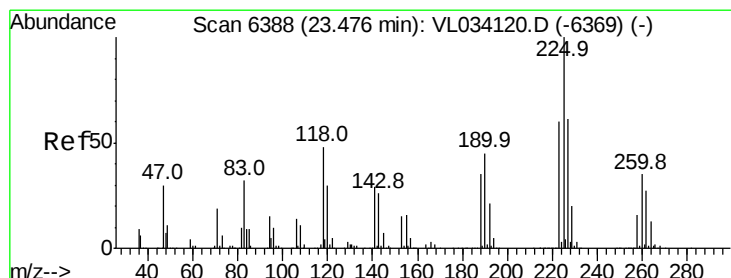
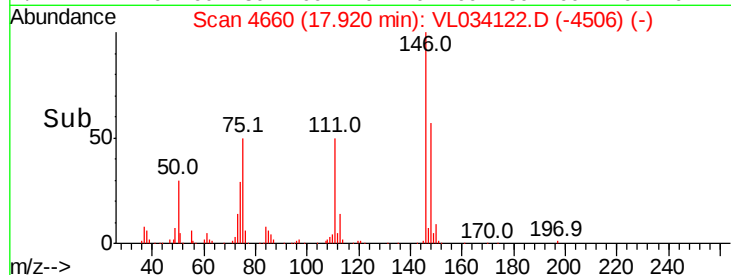
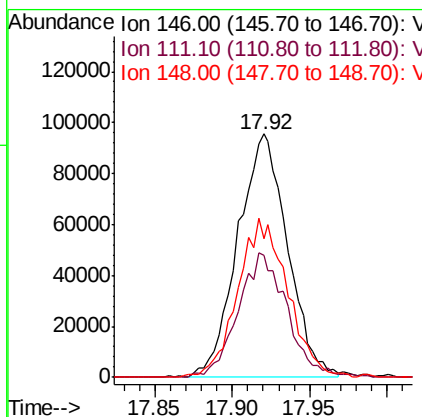
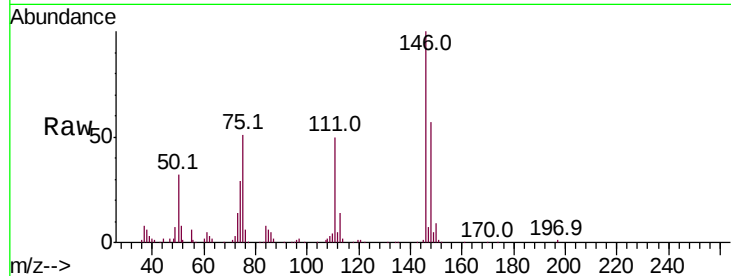
ClientSampleId :

VSTDIC001

Tot Ion:	146	Resp:	212010
Ion Ratio	Lower	Upper	
146	100		
111	50.5	25.1	75.4
148	66.2	32.0	96.2

Manual Integrations
APPROVED

MMDadoda
9/12/2019 5:15:46 AM



#78

Hexachloro-1,3-Butadiene

Concen: 1.170 ppbv m

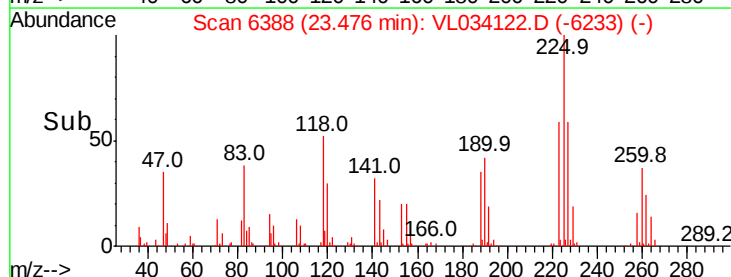
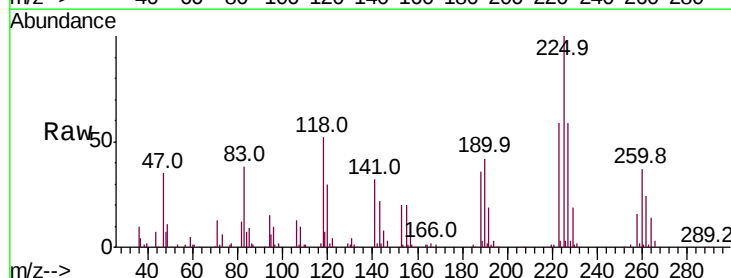
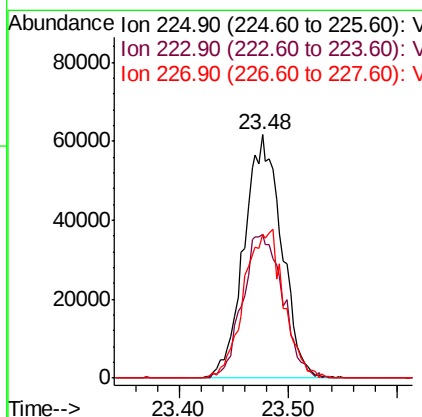
RT: 23.48 min Scan# 6388

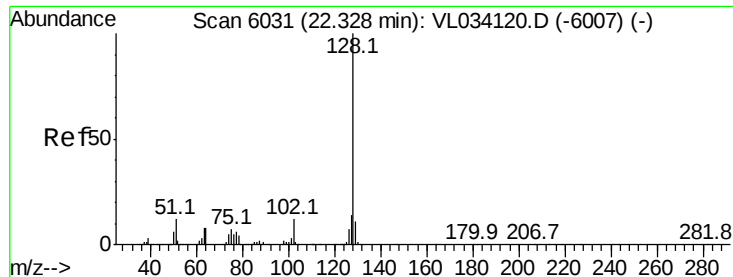
Delta R.T. -0.00 min

Lab File: VL034122.D

Acq: 5 Sep 2019 3:48

Tgt Ion:	225	Resp:	147876
Ion Ratio	Lower	Upper	
225	100		
223	0.0	50.3	75.5#
227	0.0	50.9	76.3#





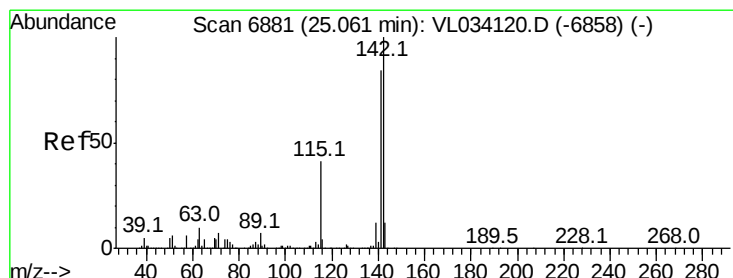
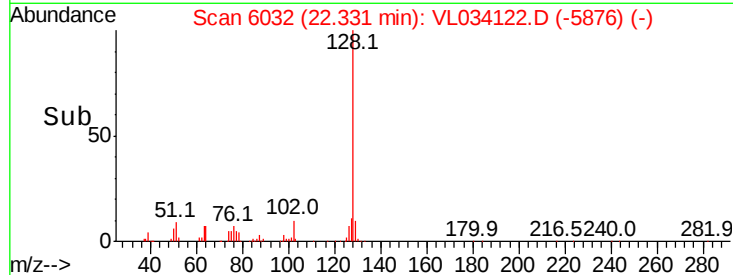
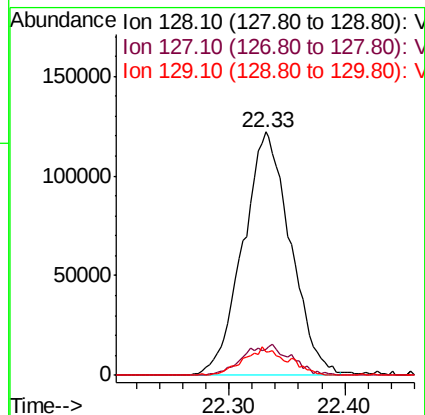
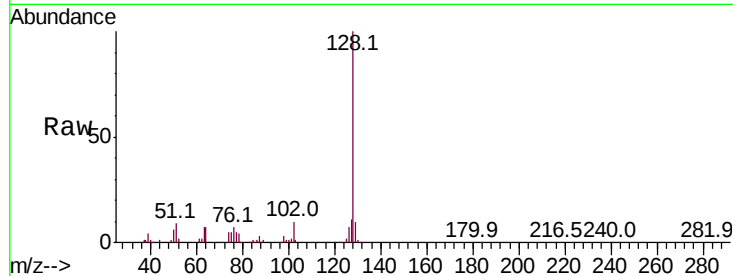
#79
Naphthalene
Concen: 1.125 ppbv
RT: 22.33 min Scan# 6032
Delta R.T. 0.00 min
Lab File: VL034122.D
Acq: 5 Sep 2019 3:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
128	100	347830		
127	10.8	10.9	16.3#	
129	9.6	8.5	12.7	

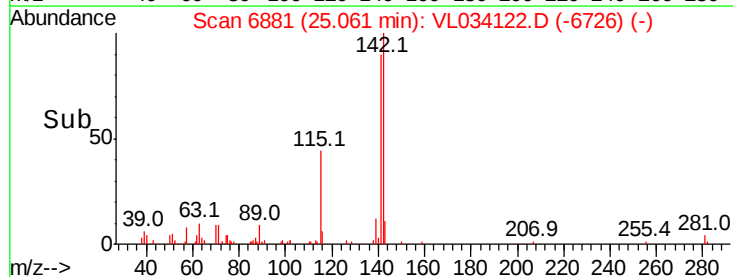
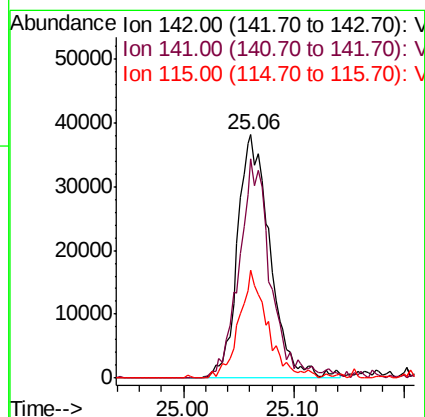
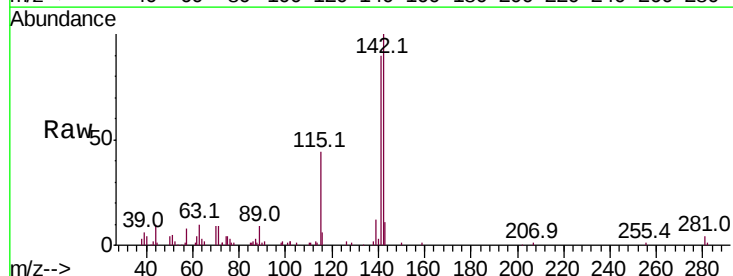
Manual Integrations
APPROVED

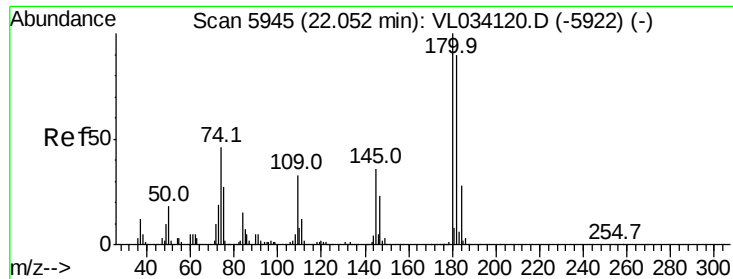
MMDadoda
9/12/2019 5:15:46 AM



#80
Naphthalene, 2-methyl-
Concen: 0.728 ppbv
RT: 25.06 min Scan# 6881
Delta R.T. -0.00 min
Lab File: VL034122.D
Acq: 5 Sep 2019 3:48

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	78186		
141	87.4	67.6	101.4	
115	39.4	34.6	52.0	





#81
 1,2,4-Trichlorobenzene
 Concen: 1.136 ppbv
 RT: 22.06 min Scan# 5947
 Delta R.T. 0.01 min
 Lab File: VL034122.D
 Acq: 5 Sep 2019 3:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
180	100	191367		
182	99.4	77.0	115.4	
184	32.4	25.5	38.3	

Manual Integrations
 APPROVED

MMDadoda
 9/12/2019 5:15:46 AM

