

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111919\
 Data File : VL034376.D
 Acq On : 19 Nov 2019 11:08
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 11/20/2019 3:53:05 PM

Quant Time: Nov 20 03:48:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 17 2019
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1059757	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.20	114	2147136	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.14	117	2157762	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.48	95	1804606	9.87	ppbv	-0.01	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	231650	1.268	ppbv	98
3) Chlorodifluoromethane	2.96	51	146664	1.181	ppbv	99
4) Chloromethane	3.11	50	86812	1.182	ppbv	97
5) Vinyl Chloride	3.23	62	77798	1.110	ppbv #	88
6) Bromomethane	3.46	94	36627	1.068	ppbv	88
7) Chloroethane	3.54	64	30263	1.227	ppbv	98
8) Dichlorotetrafluoroethane	3.16	85	192139	1.214	ppbv	100
9) Propene	2.98	41	62388	1.133	ppbv	97
10) Heptane	8.15	43	163711	1.158	ppbv	99
11) Trichlorofluoromethane	3.93	101	211882	1.222	ppbv	87
12) 1,1,2-Trichlorotrifluoroet	4.48	101	136357	1.200	ppbv	98
13) Ethanol	3.58	45	22723	1.843	ppbv	86
14) Bromoethene	3.72	108	51347	1.148	ppbv	91
15) Acetone	3.84	43	171004	1.128	ppbv	98
16) 1,3-Butadiene	3.30	39	68946	1.119	ppbv	100
17) tert-Butyl alcohol	4.29	59	140265	1.450	ppbv	99
18) 1,1-Dichloroethene	4.28	96	58294	1.172	ppbv #	83
19) Isopropyl Alcohol	3.96	45	126364m	1.494	ppbv	
20) Methylene Chloride	4.34	84	58752	1.072	ppbv	91
21) Allyl Chloride	4.41	41	94716	1.130	ppbv	94
22) trans-1,2-Dichloroethene	4.89	96	56672	1.142	ppbv	94
23) Vinyl Acetate	5.07	43	208322	1.100	ppbv #	97
24) 1,1-Dichloroethane	5.01	63	161757	1.151	ppbv	100
25) Ethyl Acetate	5.69	43	293244	1.146	ppbv	99
26) Hexane	5.70	57	124049	1.137	ppbv	97
27) Carbon Disulfide	4.55	76	123144	1.087	ppbv	96
28) Methyl tert-Butyl Ether	5.04	73	204832	1.241	ppbv	98
29) Chloroform	5.76	83	200949	1.165	ppbv	97
30) Cyclohexane	7.15	84	90088	1.123	ppbv	97
31) cis-1,2-Dichloroethene	5.56	61	123026	1.111	ppbv	99
32) 1,1,1-Trichloroethane	6.53	97	189510	1.129	ppbv	98
34) 2-Butanone	5.26	43	191528	1.091	ppbv	98
35) Carbon Tetrachloride	7.04	117	195397	1.045	ppbv #	84
36) Benzene	6.91	78	232106	1.127	ppbv	98
37) 1,2-Dichloroethane	6.32	62	173703	1.131	ppbv	100
38) Trichloroethene	7.87	130	87484	1.058	ppbv	92
39) 1,2-Dichloropropane	7.64	63	96730m	1.090	ppbv	
40) 1,4-Dioxane	7.88	88	44491m	1.427	ppbv	
41) Tetrahydrofuran	6.07	42	104201m	1.070	ppbv	
42) Bromodichloromethane	7.83	83	213121m	1.133	ppbv	
43) Methyl Methacrylate	8.04	69	92658	1.087	ppbv	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111919\
 Data File : VL034376.D
 Acq On : 19 Nov 2019 11:08
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

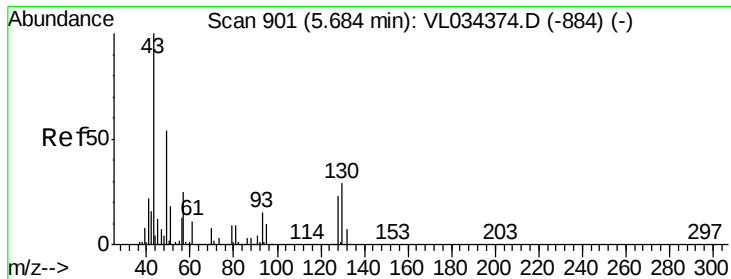
MMDadoda
 11/20/2019 3:53:05 PM

Quant Time: Nov 20 03:48:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 1
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

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

44) 2,2,4-Trimethylpentane	7.90	57	443320	1.163	ppbv	97
45) t-1,3-Dichloropropene	9.31	75	109544m	1.055	ppbv	
46) cis-1,3-Dichloropropene	8.74	75	125720	1.054	ppbv	94
47) 1,1,2-Trichloroethane	9.52	97	95870m	1.067	ppbv	
48) Dibromochloromethane	10.35	129	164414m	1.115	ppbv	
49) Bromoform	13.09	173	141220	1.081	ppbv	99
50) 4-Methyl-2-Pentanone	8.78	43	277607	1.105	ppbv	99
51) 2-Hexanone	10.19	43	229332	1.113	ppbv #	100
52) Tetrachloroethene	11.27	164	87903	1.089	ppbv	87
53) Toluene	9.85	91	262887	1.156	ppbv	97
54) 1,2-Dibromoethane	10.66	107	152832	1.148	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.18	131	114810	1.155	ppbv #	1
57) Chlorobenzene	12.20	112	217616	1.209	ppbv	96
58) Ethyl Benzene	12.76	91	360470	1.195	ppbv	89
59) m/p-Xylene	13.02	91	652400m	2.496	ppbv	
60) o-Xylene	13.75	91	316379	1.216	ppbv	98
61) Styrene	13.58	104	220752	1.205	ppbv	100
62) Isopropylbenzene	14.73	105	418538	1.218	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.74	83	226496	1.083	ppbv	98
64) n-propylbenzene	15.62	120	104879	1.190	ppbv	80
65) tert-Butylbenzene	16.81	119	380034	1.248	ppbv	94
66) Benzyl Chloride	17.06	91	114064	0.949	ppbv	96
67) sec-Butylbenzene	17.36	105	530797	1.239	ppbv	99
69) p-Isopropyltoluene	17.71	119	446155m	1.277	ppbv	
70) n-Butylbenzene	18.61	91	492990m	1.297	ppbv	
71) 2-Chlorotoluene	15.51	91	340058	1.277	ppbv	97
72) 4-Ethyltoluene	15.90	105	368959	1.261	ppbv	97
73) 1,3,5-Trimethylbenzene	16.05	105	362925m	1.252	ppbv	
74) 1,2,4-Trimethylbenzene	16.82	105	395303	1.308	ppbv	95
75) 1,3-Dichlorobenzene	17.06	146	219954	1.212	ppbv	99
76) 1,4-Dichlorobenzene	17.20	146	213229	1.203	ppbv	97
77) 1,2-Dichlorobenzene	17.89	146	213637	1.201	ppbv	98
78) Hexachloro-1,3-Butadiene	23.44	225	180482m	1.226	ppbv	
79) Naphthalene	22.29	128	328185	1.486	ppbv	100
80) Naphthalene, 2-methyl-	25.04	142	112593	1.764	ppbv	95
81) 1,2,4-Trichlorobenzene	22.02	180	202428m	1.404	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.01 min

Lab File: VL034376.D

Acq: 19 Nov 2019 11:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 49 Resp: 1059757

Ion Ratio Lower Upper

49 100

128 44.1 20.6 61.8

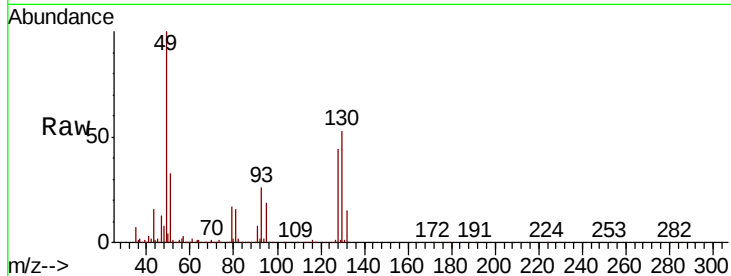
130 56.1 26.2 78.5

Manual Integrations

APPROVED

MMDadoda

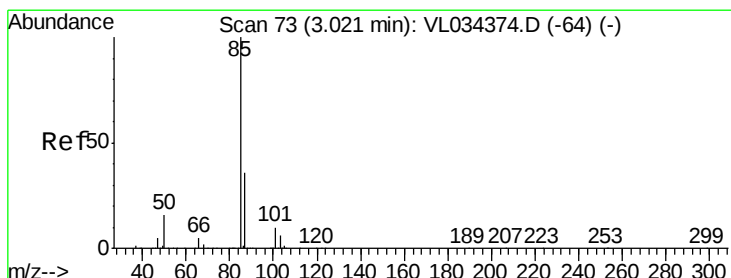
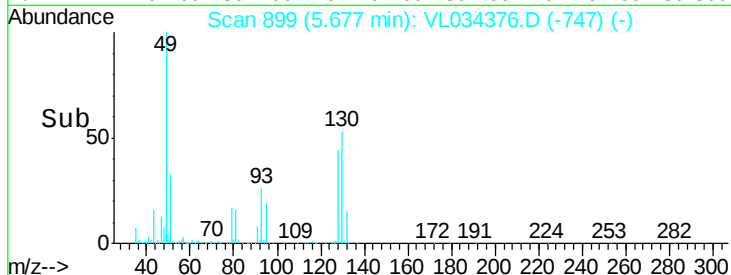
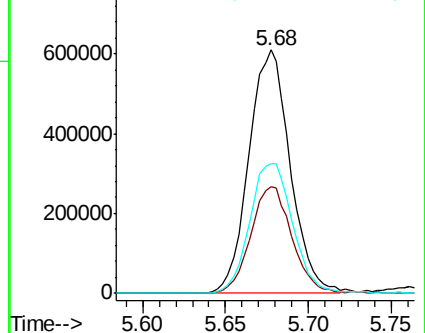
11/20/2019 3:53:05 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 1.268 ppbv

RT: 3.02 min Scan# 73

Delta R.T. -0.01 min

Lab File: VL034376.D

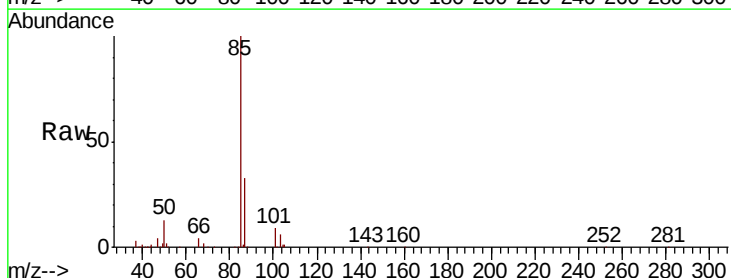
Acq: 19 Nov 2019 11:08

Tgt Ion: 85 Resp: 231650

Ion Ratio Lower Upper

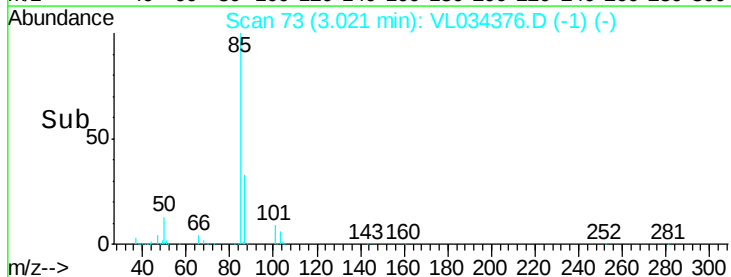
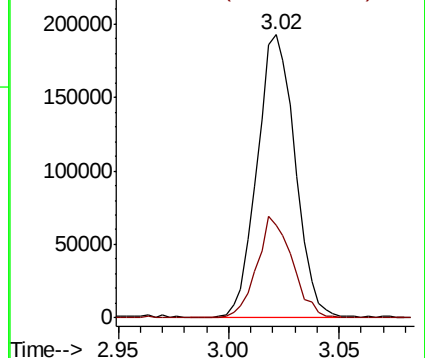
85 100

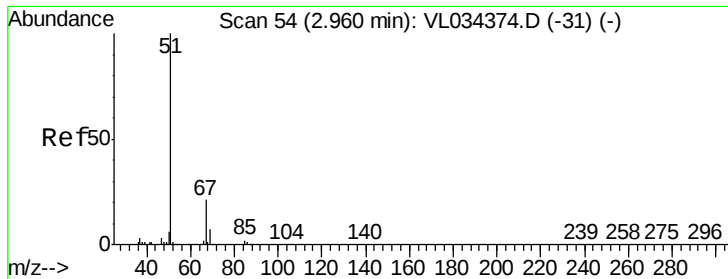
87 32.8 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.181 ppbv

RT: 2.96 min Scan# 53

Delta R.T. -0.01 min

Lab File: VL034376.D

Acq: 19 Nov 2019 11:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 51 Resp: 146664

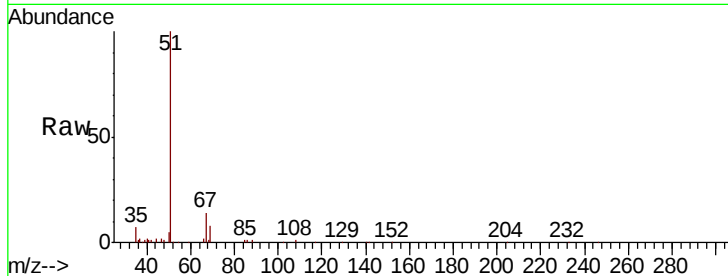
Ion Ratio Lower Upper

51 100

67 19.2 15.8 23.8

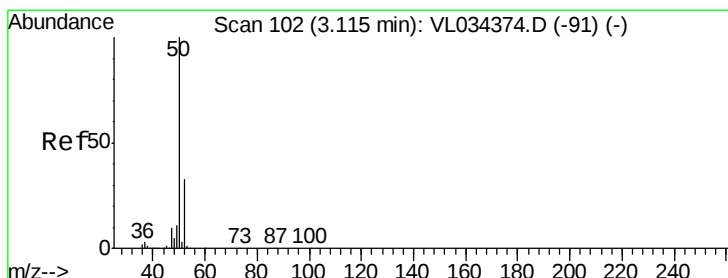
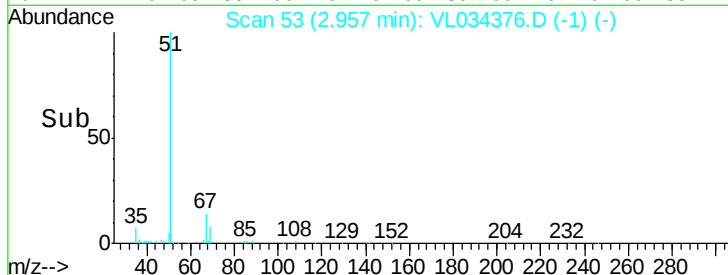
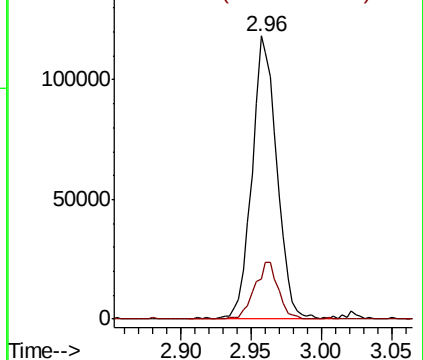
Manual Integrations
APPROVED

MMDadoda
11/20/2019 3:53:05 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 1.182 ppbv

RT: 3.11 min Scan# 101

Delta R.T. -0.01 min

Lab File: VL034376.D

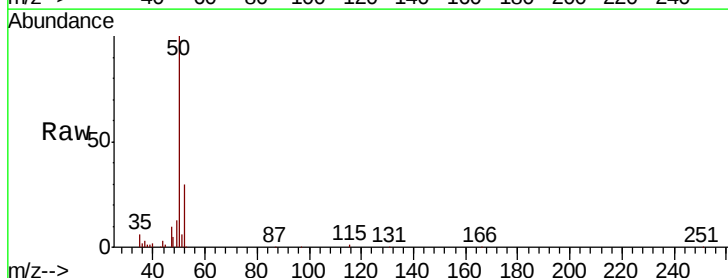
Acq: 19 Nov 2019 11:08

Tgt Ion: 50 Resp: 86812

Ion Ratio Lower Upper

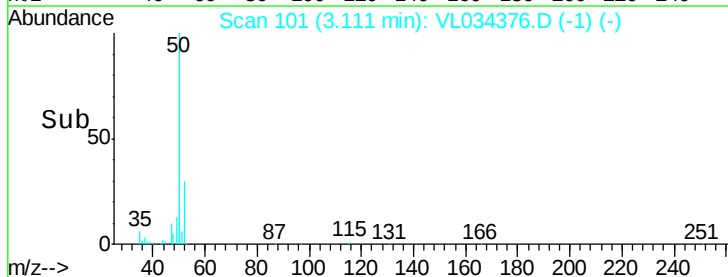
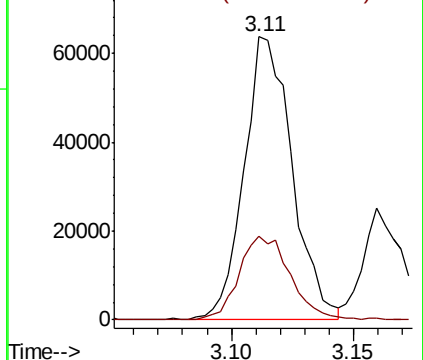
50 100

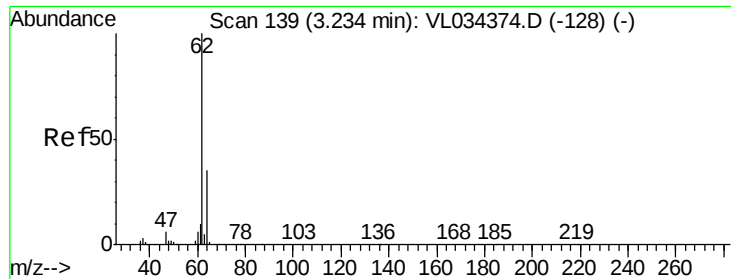
52 29.9 25.4 38.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 1.110 ppbv

RT: 3.23 min Scan# 139

Delta R.T. -0.01 min

Lab File: VL034376.D

Acq: 19 Nov 2019 11:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 62 Resp: 77798

Ion Ratio Lower Upper

62 100

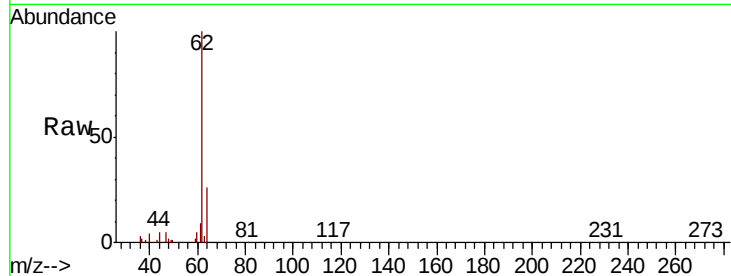
64 26.0 26.0 39.0#

Manual Integrations

APPROVED

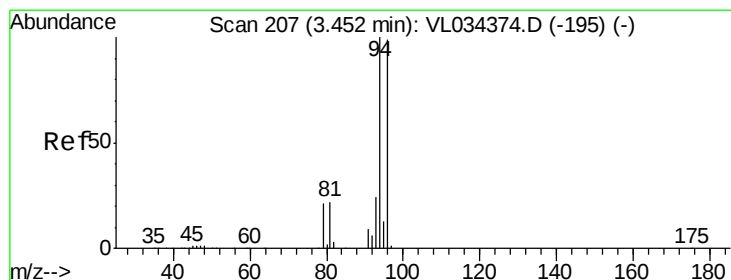
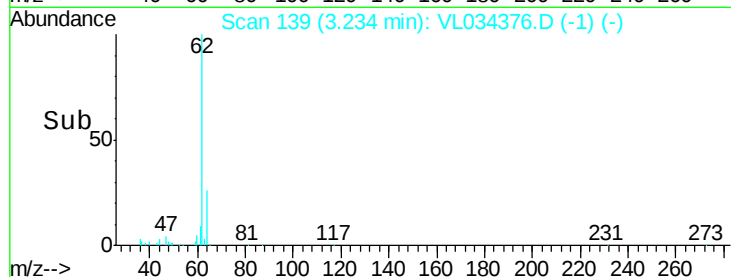
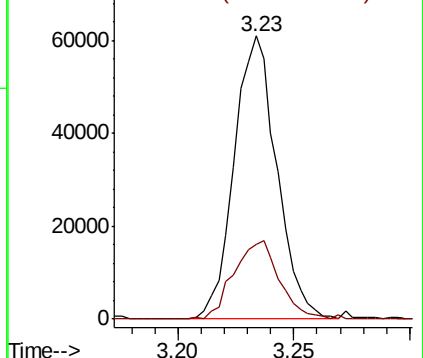
MMDadoda

11/20/2019 3:53:05 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 1.068 ppbv

RT: 3.46 min Scan# 208

Delta R.T. -0.00 min

Lab File: VL034376.D

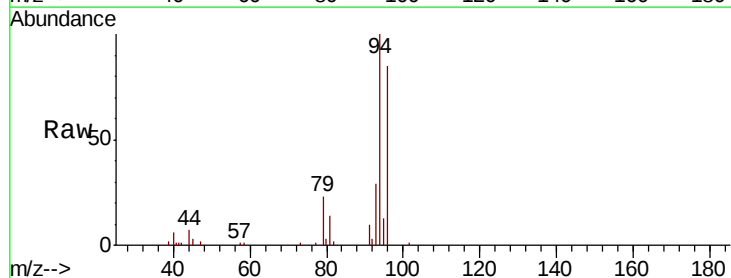
Acq: 19 Nov 2019 11:08

Tgt Ion: 94 Resp: 36627

Ion Ratio Lower Upper

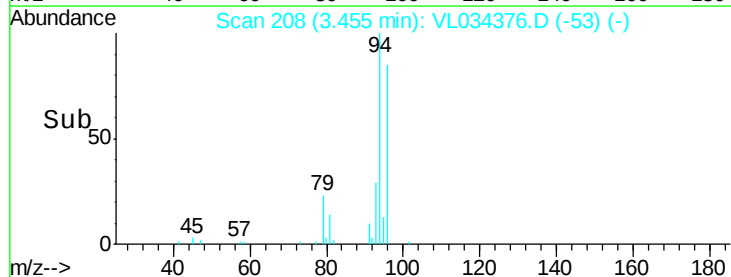
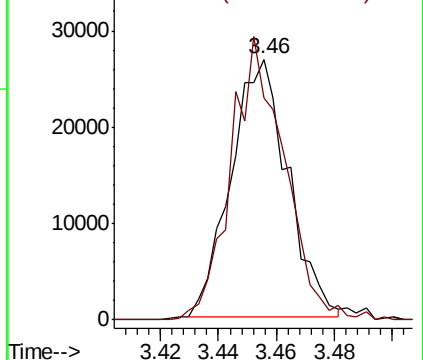
94 100

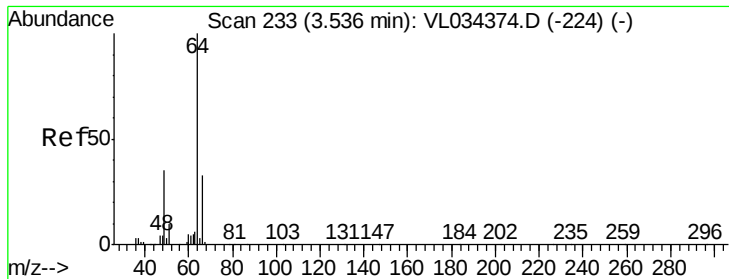
96 82.2 74.6 112.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 1.227 ppbv

RT: 3.54 min Scan# 234

Delta R.T. -0.00 min

Lab File: VL034376.D

Acq: 19 Nov 2019 11:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 64 Resp: 30263

Ion Ratio Lower Upper

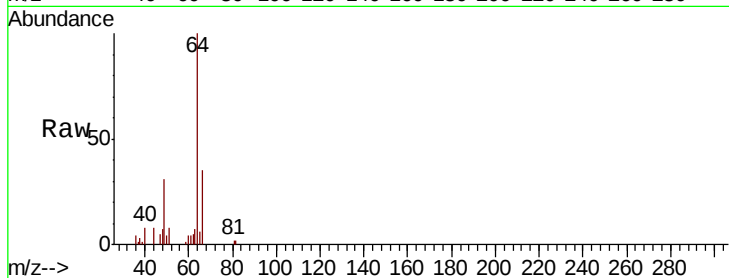
64 100

66 32.7 25.4 38.0

Manual Integrations
APPROVED

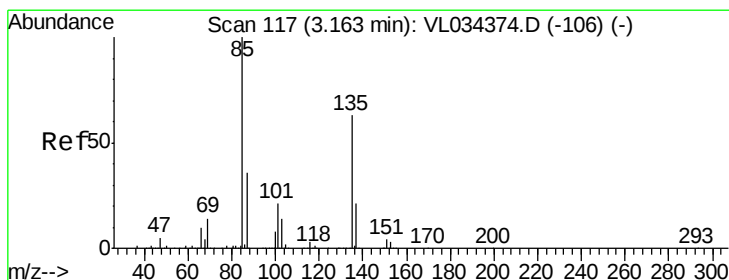
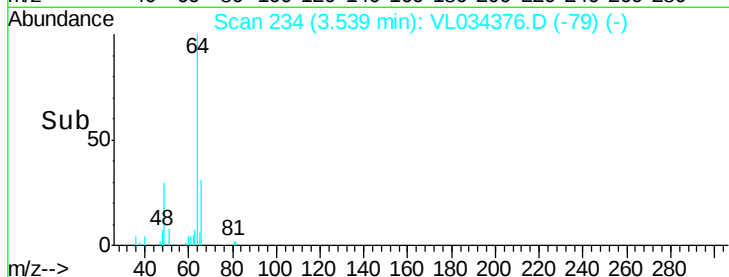
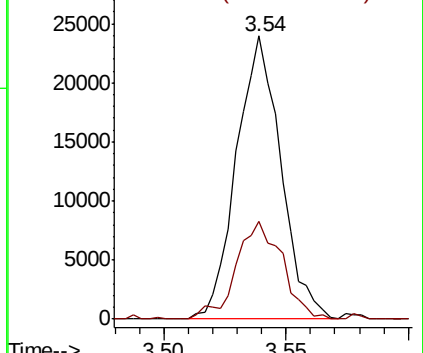
MMDadoda

11/20/2019 3:53:05 PM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 1.214 ppbv

RT: 3.16 min Scan# 117

Delta R.T. -0.01 min

Lab File: VL034376.D

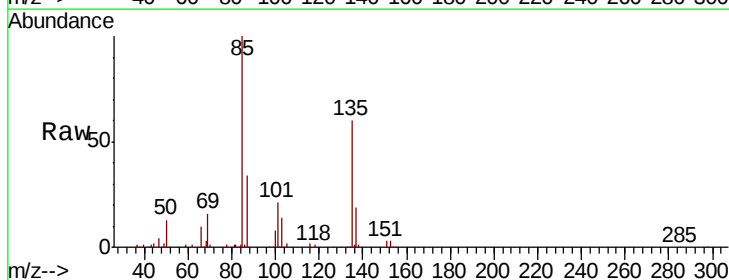
Acq: 19 Nov 2019 11:08

Tgt Ion: 85 Resp: 192139

Ion Ratio Lower Upper

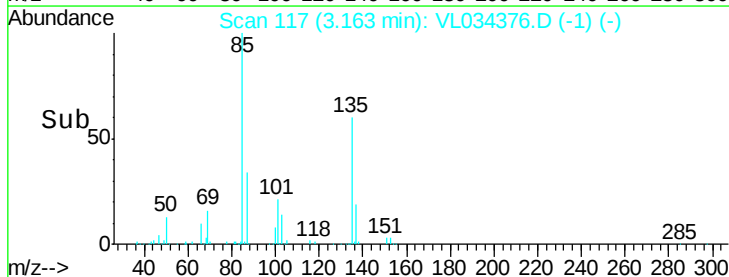
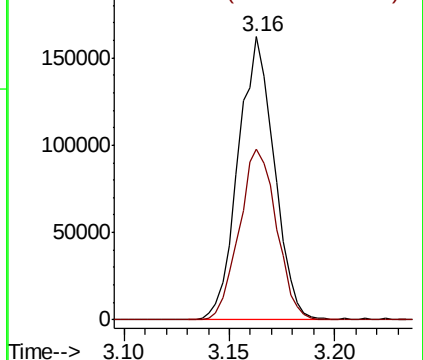
85 100

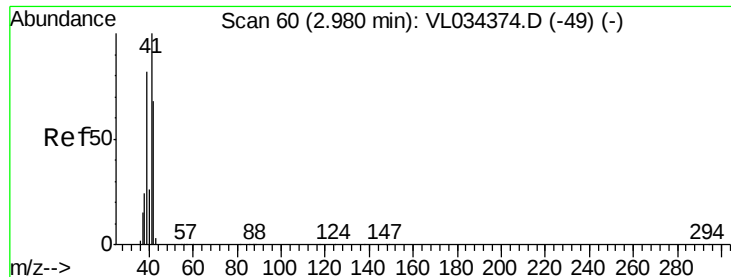
135 62.7 50.2 75.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 1.133 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.01 min

Lab File: VL034376.D

Acq: 19 Nov 2019 11:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 41 Resp: 62388

Ion Ratio Lower Upper

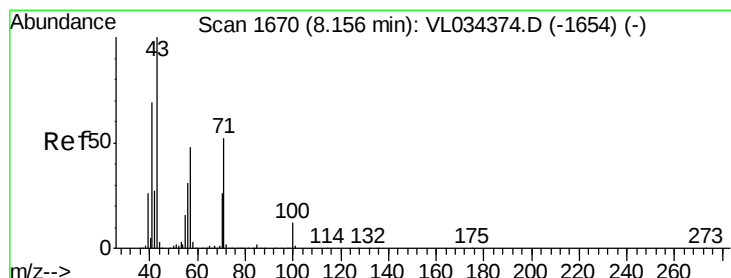
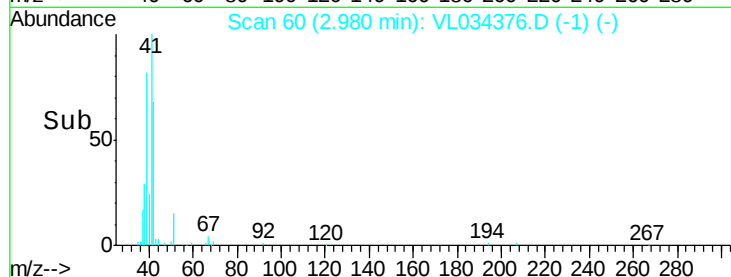
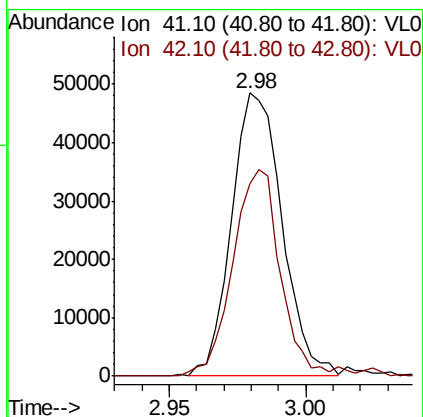
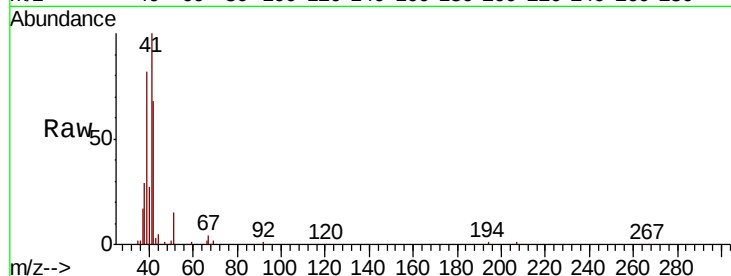
41 100

42 69.9 53.9 80.9

Manual Integrations
APPROVED

MMDadoda

11/20/2019 3:53:05 PM



#10

Heptane

Concen: 1.158 ppbv

RT: 8.15 min Scan# 1669

Delta R.T. -0.01 min

Lab File: VL034376.D

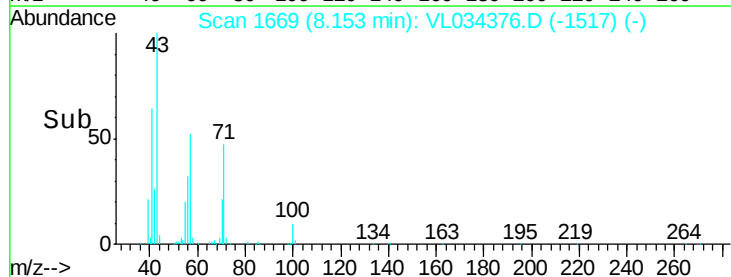
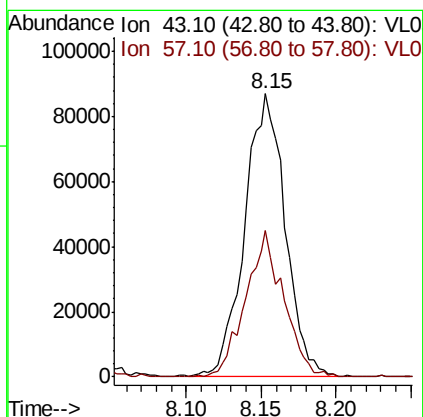
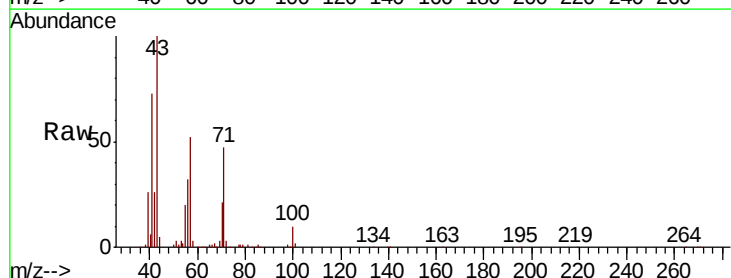
Acq: 19 Nov 2019 11:08

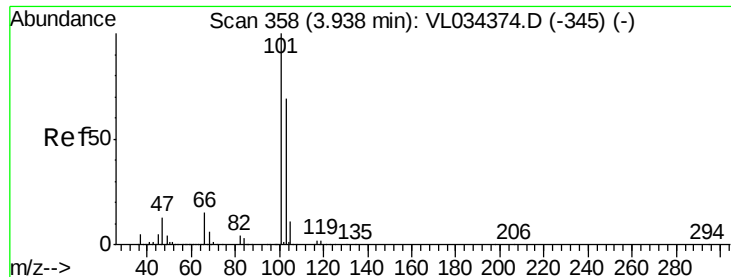
Tgt Ion: 43 Resp: 163711

Ion Ratio Lower Upper

43 100

57 48.6 39.5 59.3





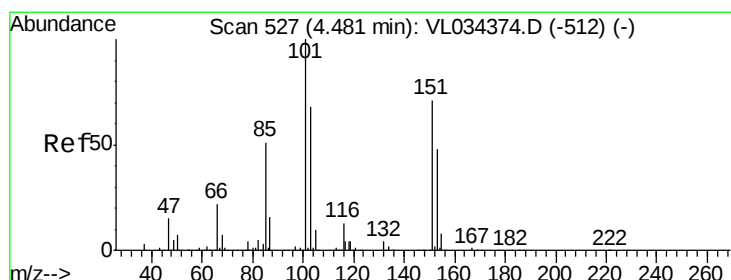
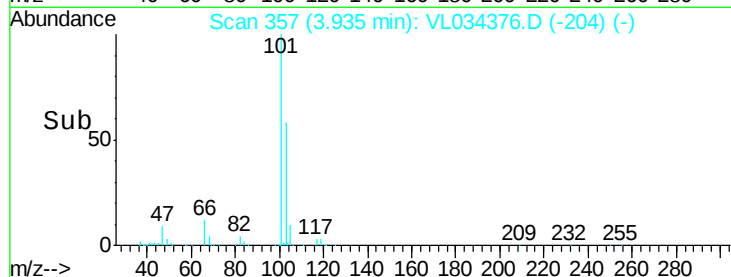
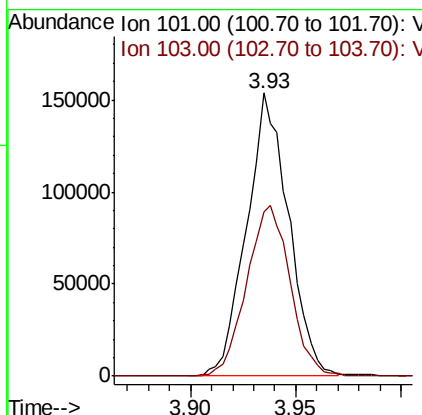
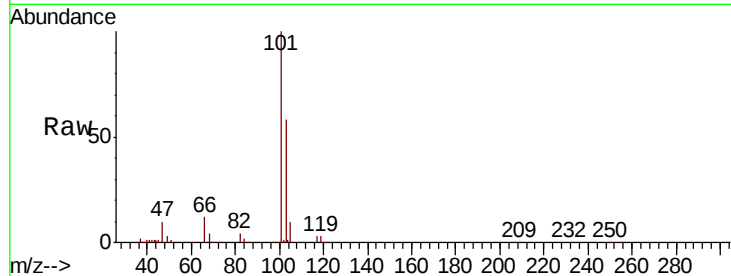
#11
 Trichlorofluoromethane
 Concen: 1.222 ppbv
 RT: 3.93 min Scan# 357
 Delta R.T. -0.01 min
 Lab File: VL034376.D
 Acq: 19 Nov 2019 11:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion:101 Resp: 211882
 Ion Ratio Lower Upper
 101 100
 103 57.8 54.5 81.7

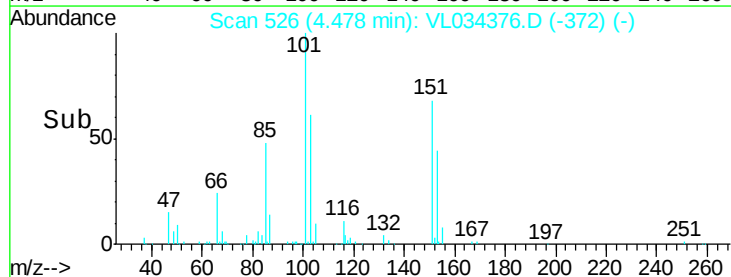
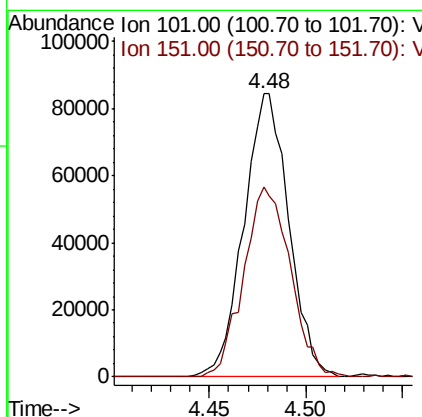
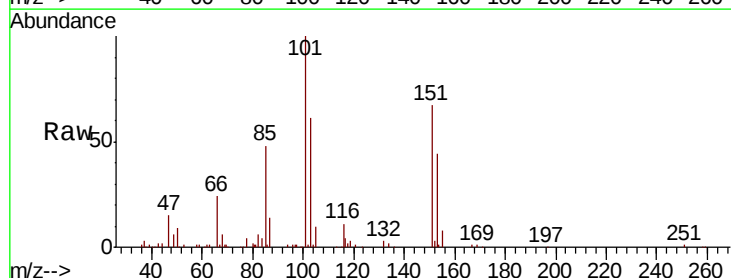
Manual Integrations
 APPROVED

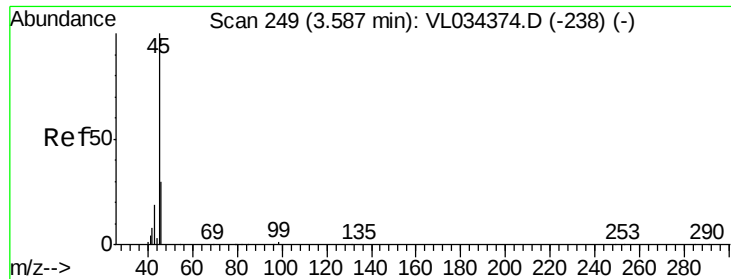
MMDadoda
 11/20/2019 3:53:05 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.200 ppbv
 RT: 4.48 min Scan# 526
 Delta R.T. -0.01 min
 Lab File: VL034376.D
 Acq: 19 Nov 2019 11:08

Tgt Ion:101 Resp: 136357
 Ion Ratio Lower Upper
 101 100
 151 70.3 57.4 86.2





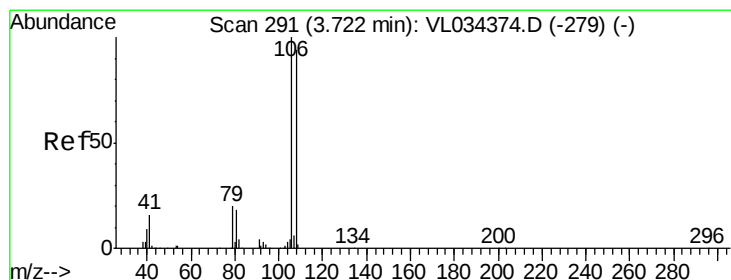
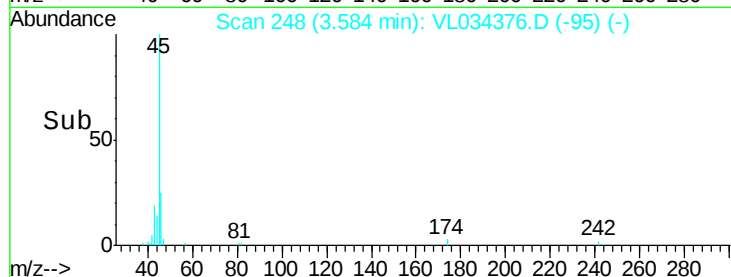
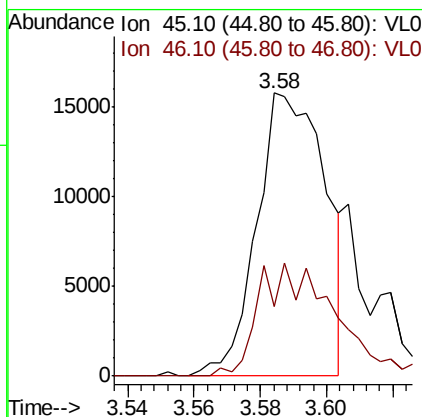
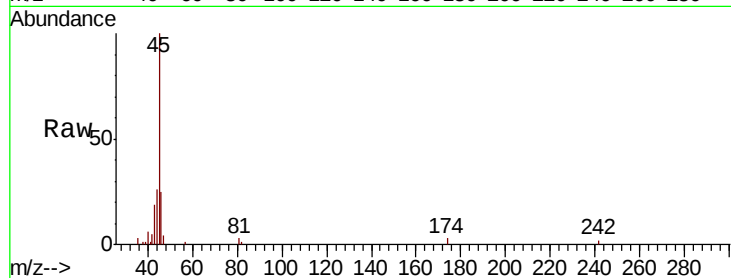
#13
Ethanol
Concen: 1.843 ppbv
RT: 3.58 min Scan# 248
Delta R.T. -0.01 min
Lab File: VL034376.D
Acq: 19 Nov 2019 11:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 45 Resp: 22723
Ion Ratio Lower Upper
45 100
46 48.2 15.8 63.2

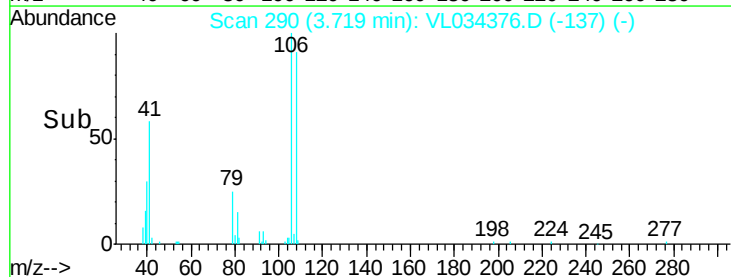
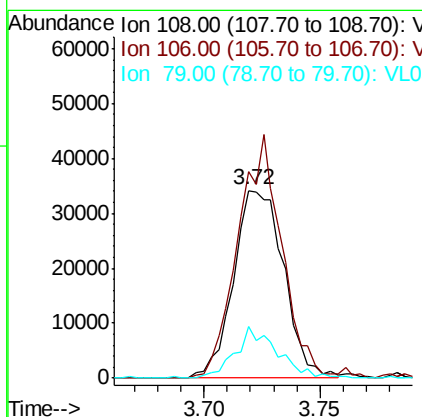
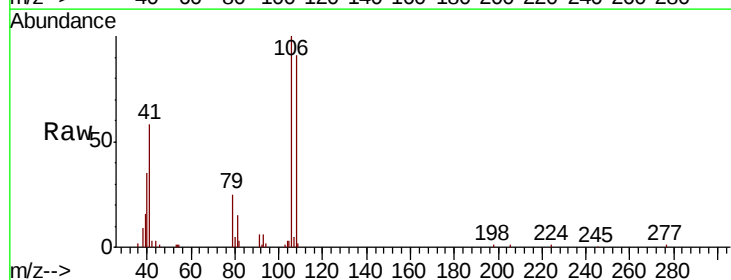
Manual Integrations
APPROVED

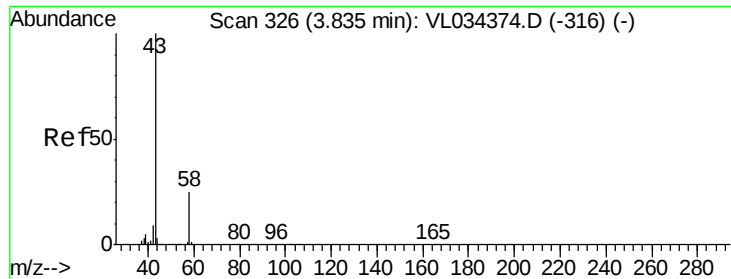
MMDadoda
11/20/2019 3:53:05 PM



#14
Bromoethene
Concen: 1.148 ppbv
RT: 3.72 min Scan# 290
Delta R.T. -0.01 min
Lab File: VL034376.D
Acq: 19 Nov 2019 11:08

Tgt Ion: 108 Resp: 51347
Ion Ratio Lower Upper
108 100
106 116.1 84.8 127.2
79 23.3 17.0 25.4





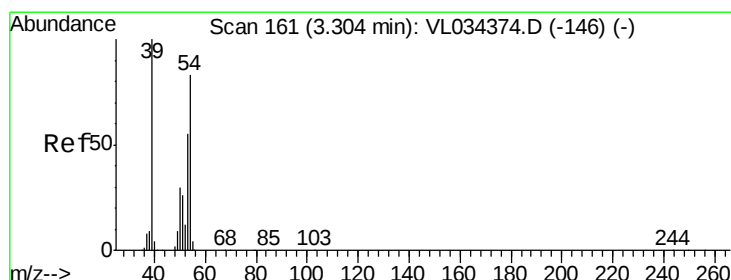
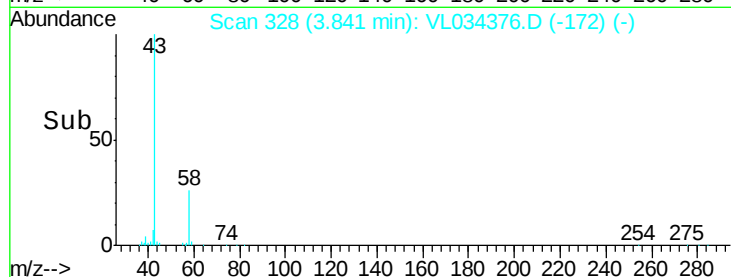
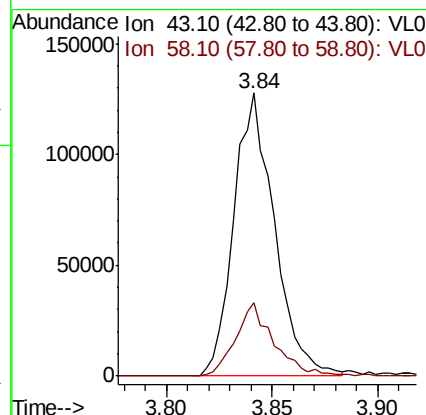
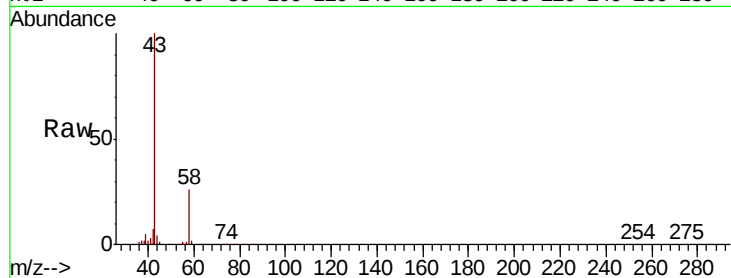
#15
Acetone
Concen: 1.128 ppbv
RT: 3.84 min Scan# 328
Delta R.T. -0.00 min
Lab File: VL034376.D
Acq: 19 Nov 2019 11:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 43 Resp: 171004
Ion Ratio Lower Upper
43 100
58 24.7 20.4 30.6

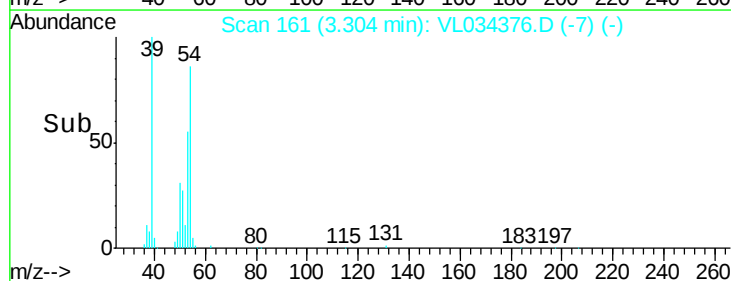
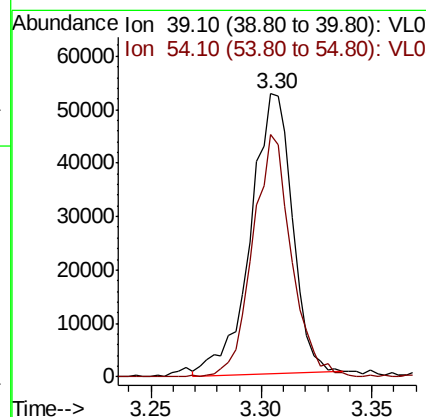
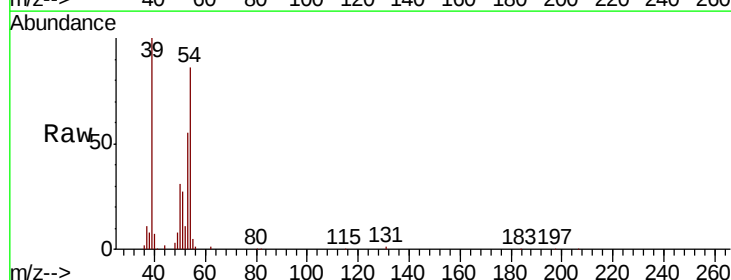
Manual Integrations
APPROVED

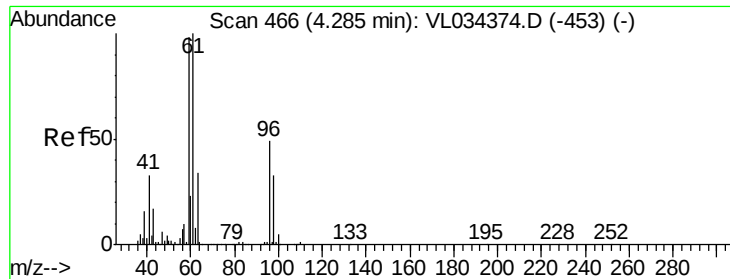
MMDadoda
11/20/2019 3:53:05 PM



#16
1,3-Butadiene
Concen: 1.119 ppbv
RT: 3.30 min Scan# 161
Delta R.T. -0.01 min
Lab File: VL034376.D
Acq: 19 Nov 2019 11:08

Tgt Ion: 39 Resp: 68946
Ion Ratio Lower Upper
39 100
54 80.3 63.9 95.9





#17

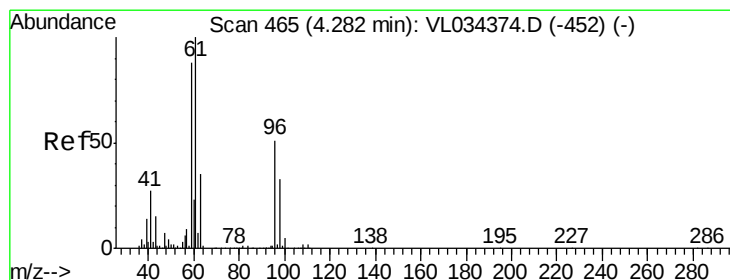
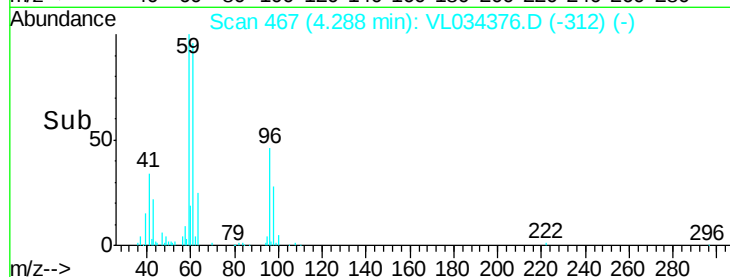
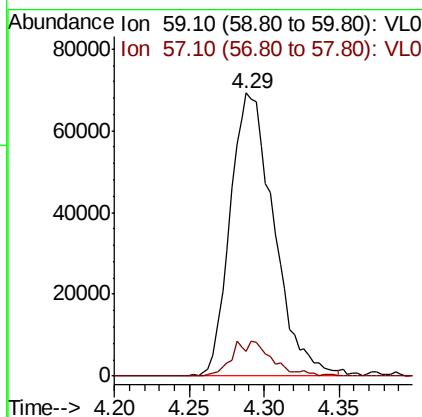
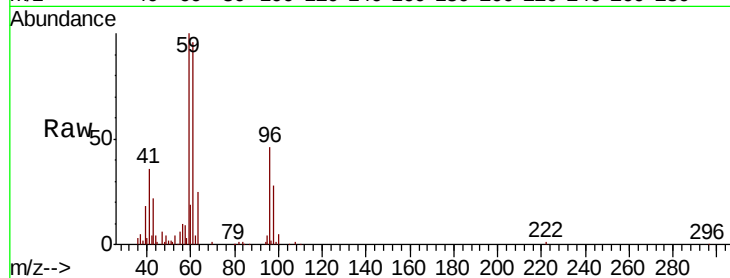
tert-Butyl alcohol
Concen: 1.450 ppbv
RT: 4.29 min Scan# 467
Delta R.T. -0.00 min
Lab File: VL034376.D
Acq: 19 Nov 2019 11:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	59	Resp	140265
Ion	Ratio	Lower	Upper
59	100		
57	11.5	8.8	13.2

Manual Integrations
APPROVED

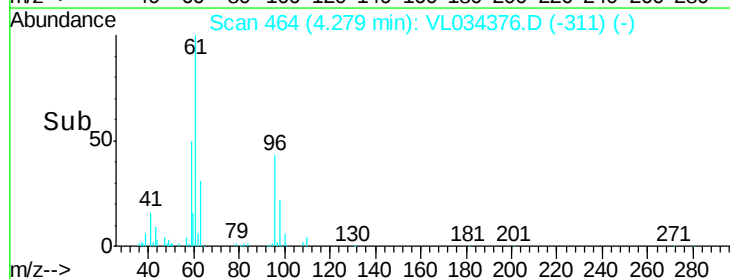
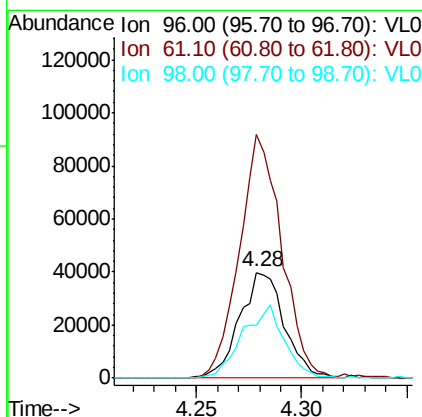
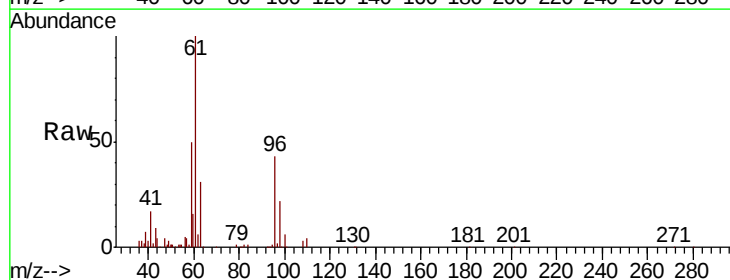
MMDadoda
11/20/2019 3:53:05 PM

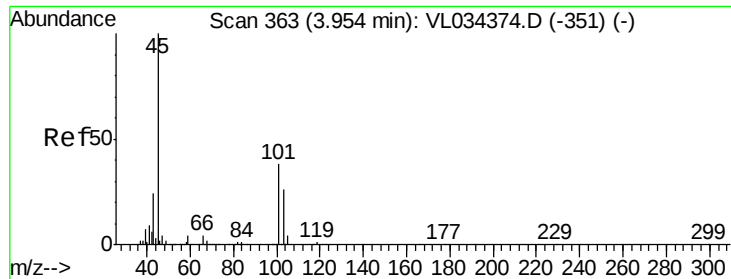


#18

1,1-Dichloroethene
Concen: 1.172 ppbv
RT: 4.28 min Scan# 464
Delta R.T. -0.01 min
Lab File: VL034376.D
Acq: 19 Nov 2019 11:08

Tgt Ion	96	Resp	58294
Ion	Ratio	Lower	Upper
96	100		
61	230.3	164.5	246.7
98	50.4	51.7	77.5#





#19

Isopropyl Alcohol

Concen: 1.494 ppbv m

RT: 3.96 min Scan# 364

Delta R.T. -0.01 min

Lab File: VL034376.D

Acq: 19 Nov 2019 11:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 45 Resp: 126364

Ion Ratio Lower Upper

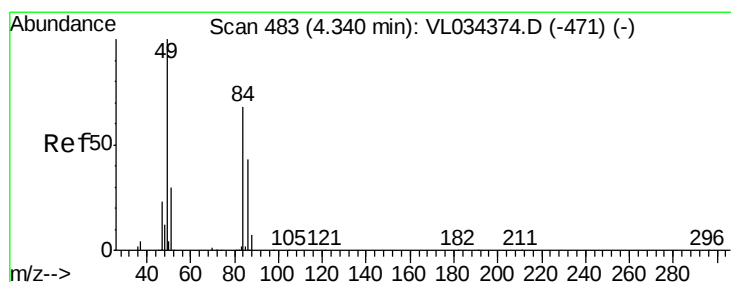
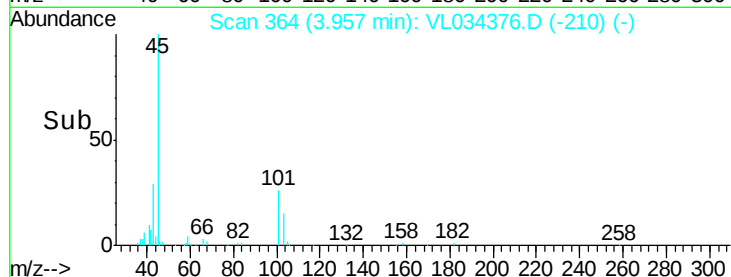
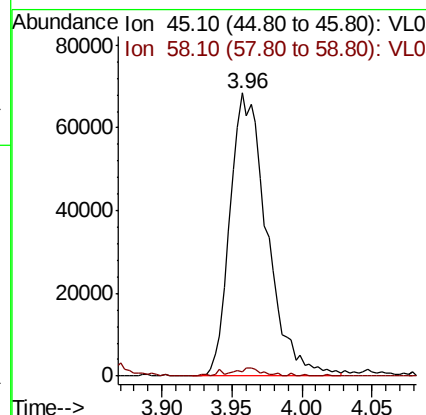
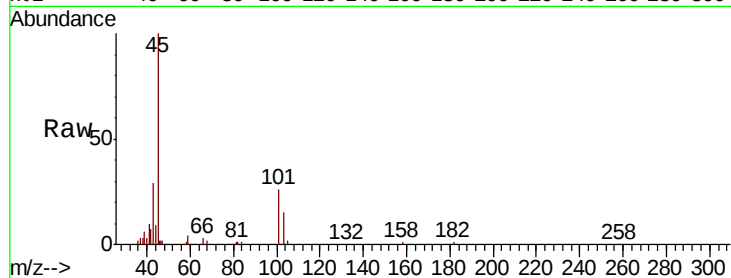
45 100

58 3.0 1.4 2.2#

Manual Integrations
APPROVED

MMDadoda

11/20/2019 3:53:05 PM



#20

Methylene Chloride

Concen: 1.072 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.01 min

Lab File: VL034376.D

Acq: 19 Nov 2019 11:08

Tgt Ion: 84 Resp: 58752

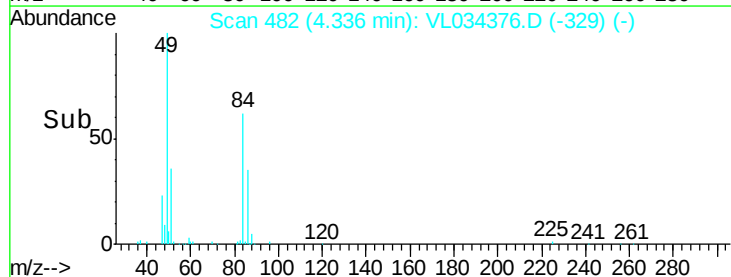
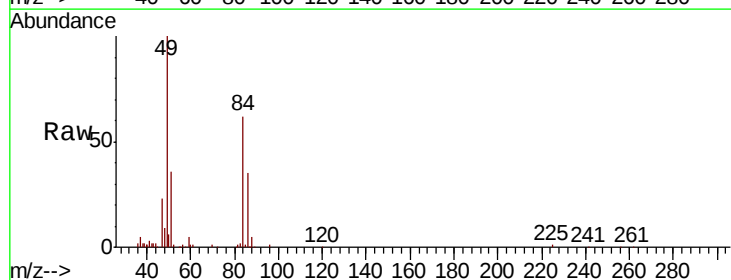
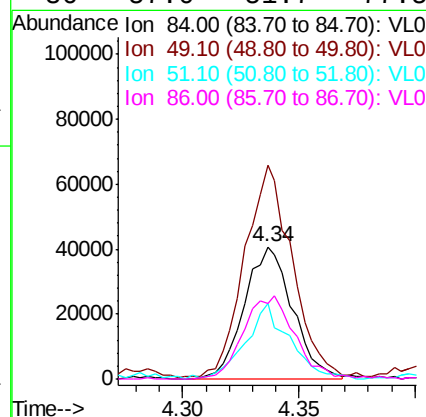
Ion Ratio Lower Upper

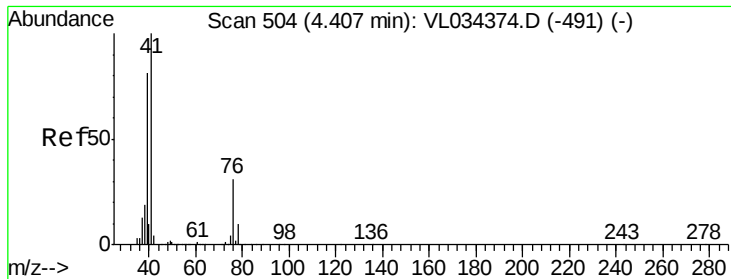
84 100

49 159.1 118.5 177.7

51 54.8 38.8 58.2

86 57.0 51.7 77.5





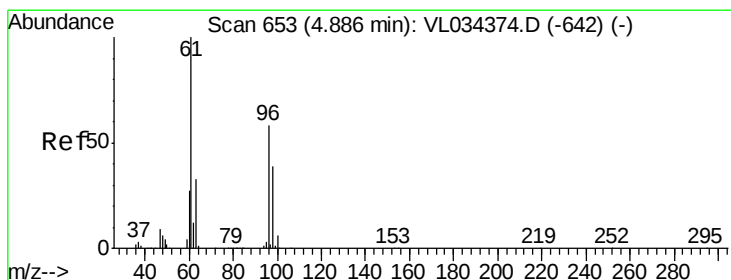
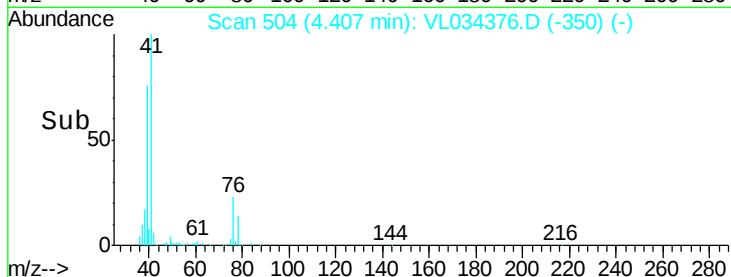
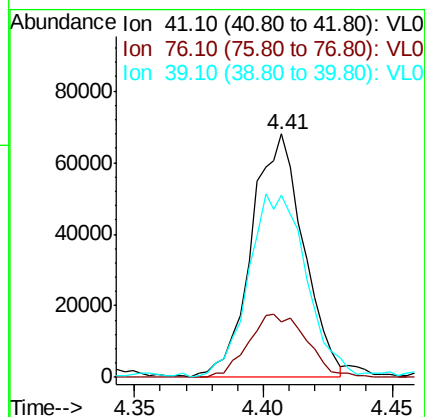
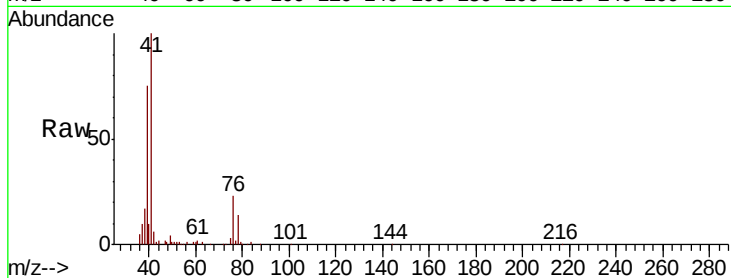
#21
Allvl Chloride
Concen: 1.130 ppbv
RT: 4.41 min Scan# 504
Delta R.T. -0.01 min
Lab File: VL034376.D
Acq: 19 Nov 2019 11:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
41	100		
76	29.5	22.8	34.2
39	89.3	66.0	99.0

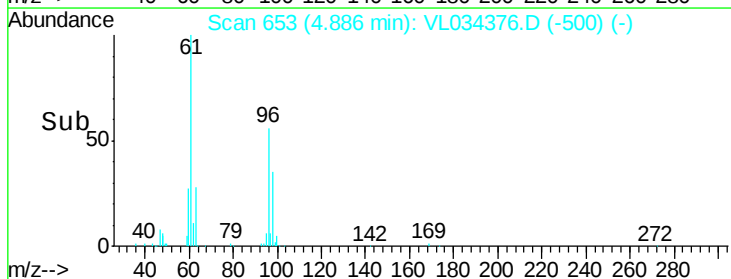
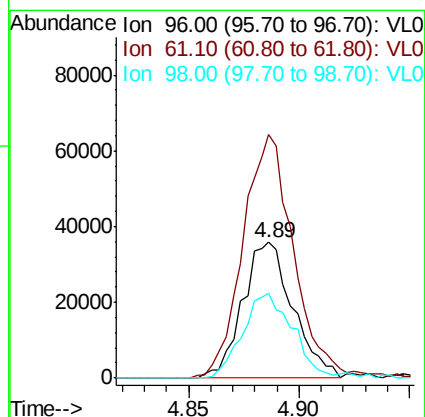
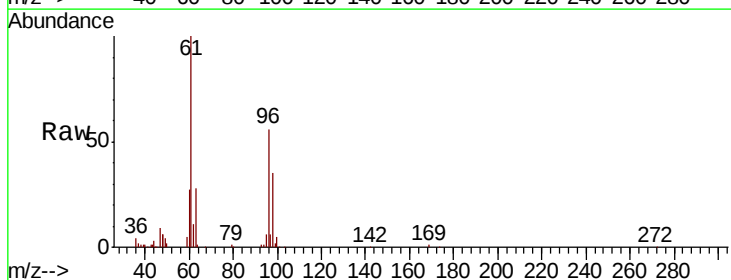
Manual Integrations
APPROVED

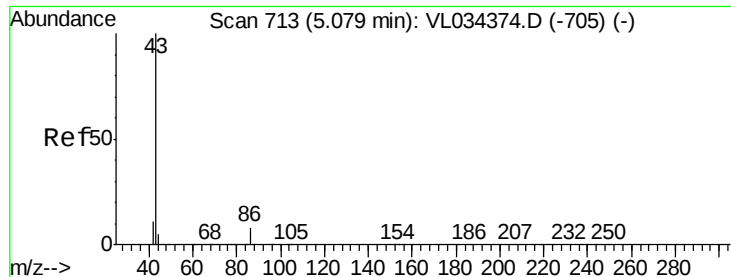
MMDadoda
11/20/2019 3:53:05 PM



#22
trans-1,2-Dichloroethene
Concen: 1.142 ppbv
RT: 4.89 min Scan# 653
Delta R.T. -0.01 min
Lab File: VL034376.D
Acq: 19 Nov 2019 11:08

Tgt Ion	Ratio	Lower	Upper
96	100		
61	178.7	133.8	200.6
98	62.1	49.4	74.0





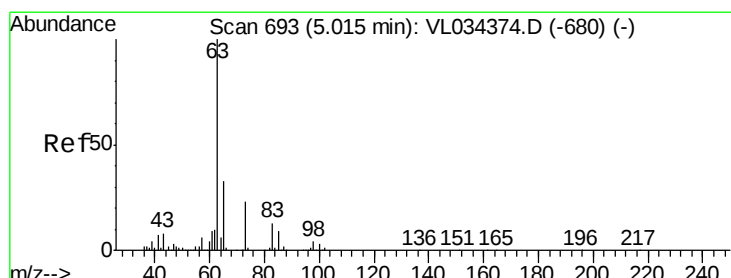
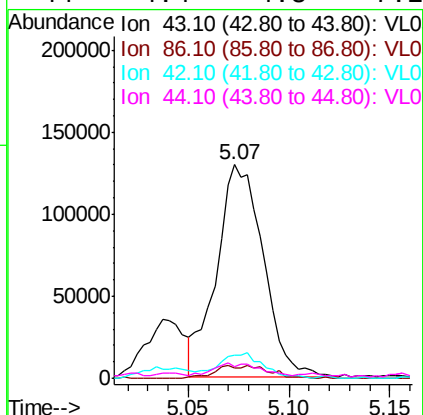
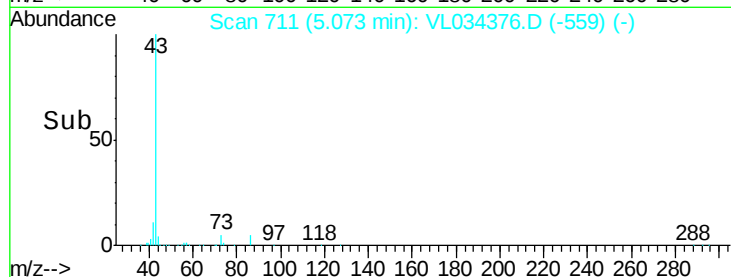
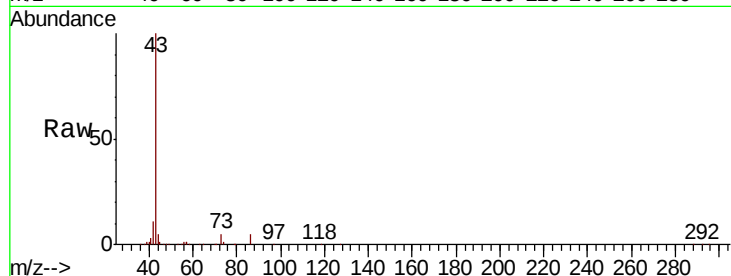
#23
 Vinyl Acetate
 Concen: 1.100 ppbv
 RT: 5.07 min Scan# 711
 Delta R.T. -0.01 min
 Lab File: VL034376.D
 Acq: 19 Nov 2019 11:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
43	100		
86	4.6	5.0	7.4#
42	10.3	8.6	13.0
44	4.4	4.8	7.2#

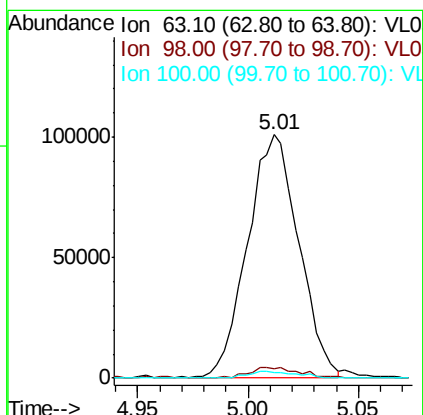
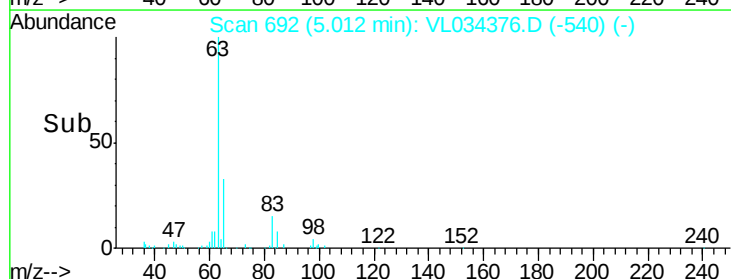
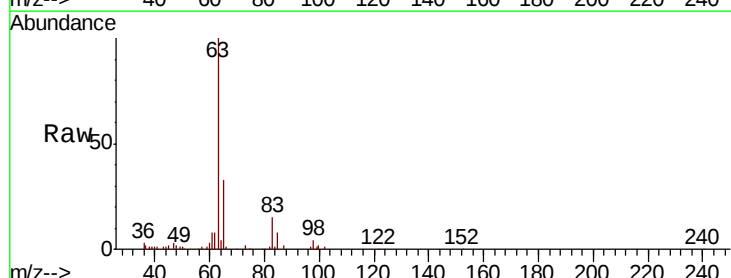
Manual Integrations
 APPROVED

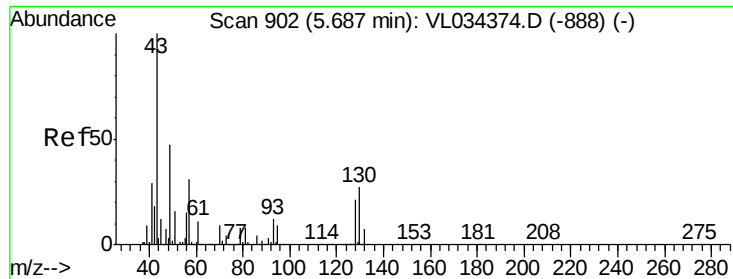
MMDadoda
 11/20/2019 3:53:05 PM



#24
 1,1-Dichloroethane
 Concen: 1.151 ppbv
 RT: 5.01 min Scan# 692
 Delta R.T. -0.01 min
 Lab File: VL034376.D
 Acq: 19 Nov 2019 11:08

Tgt Ion	Ratio	Lower	Upper
63	100		
98	3.9	2.0	6.0
100	2.1	1.1	3.5





#25

Ethyl Acetate

Concen: 1.146 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.01 min

Lab File: VL034376.D

Acq: 19 Nov 2019 11:08

Instrument :

MSVOA_L

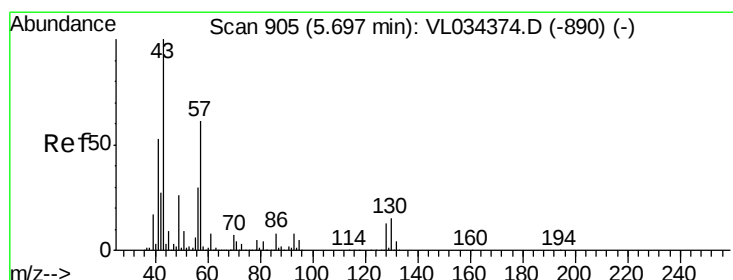
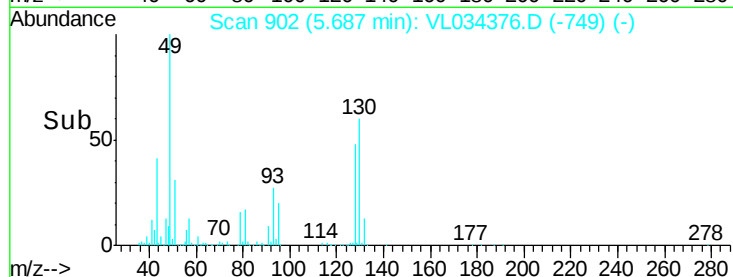
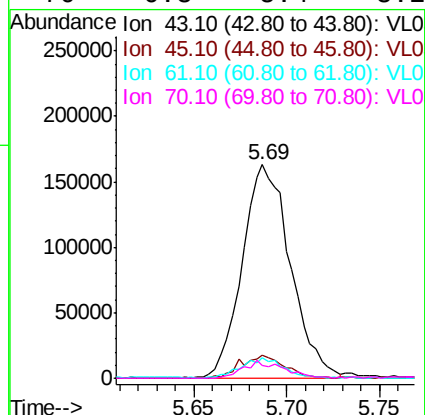
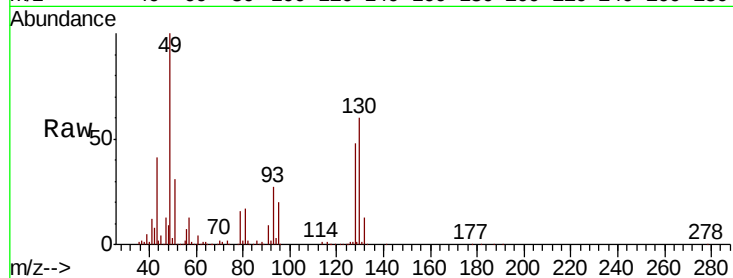
ClientSampleId :

VSTDIC001

Tot Ion	43	Resp	293244
Ion Ratio	Lower	Upper	
43	100		
45	10.2	8.3	12.5
61	9.1	7.7	11.5
70	6.8	5.4	8.2

Manual Integrations
APPROVED

MMDadoda
11/20/2019 3:53:05 PM



#26

Hexane

Concen: 1.137 ppbv

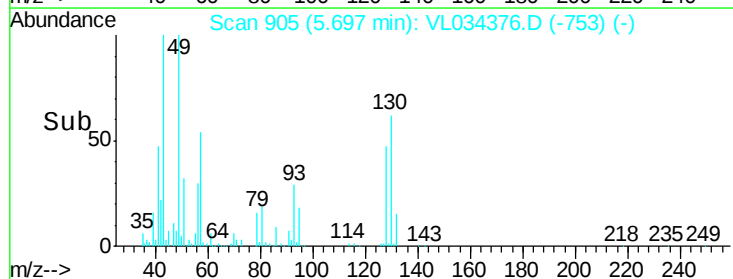
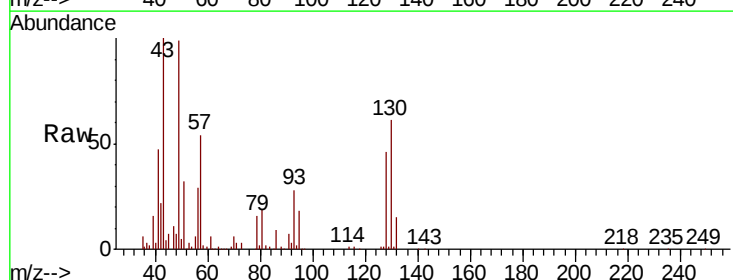
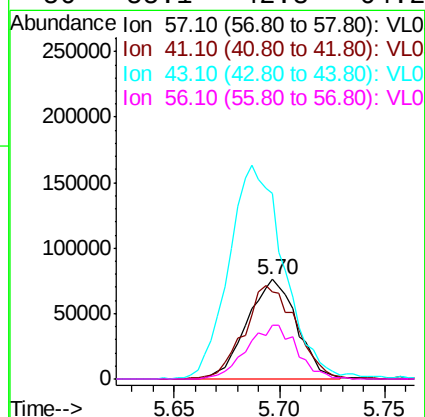
RT: 5.70 min Scan# 905

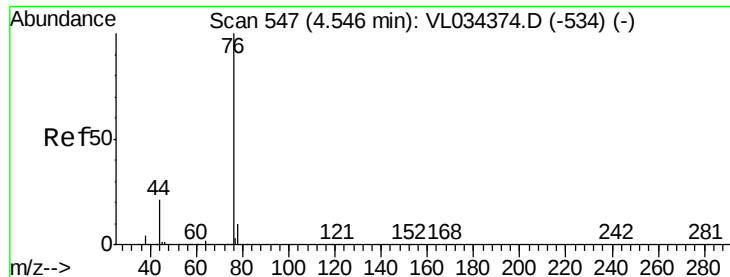
Delta R.T. -0.01 min

Lab File: VL034376.D

Acq: 19 Nov 2019 11:08

Tgt Ion	57	Resp	124049
Ion Ratio	Lower	Upper	
57	100		
41	98.6	76.5	114.7
43	241.9	188.5	282.7
56	55.1	42.8	64.2





#27

Carbon Disulfide

Concen: 1.087 ppbv

RT: 4.55 min Scan# 547

Delta R.T. -0.01 min

Lab File: VL034376.D

Acq: 19 Nov 2019 11:08

Instrument :

MSVOA_L

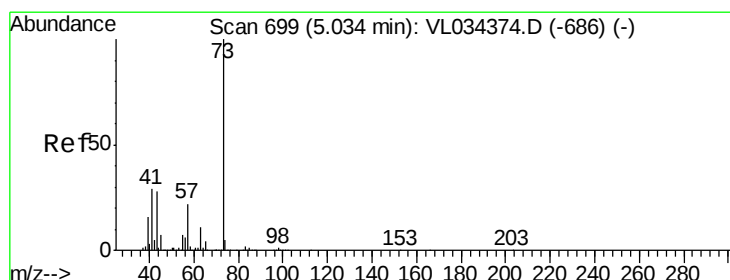
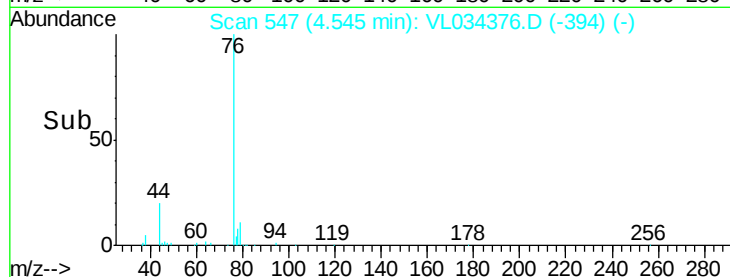
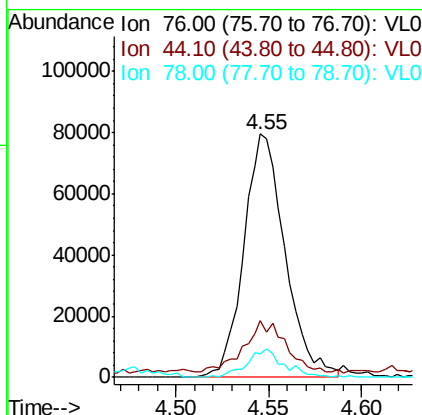
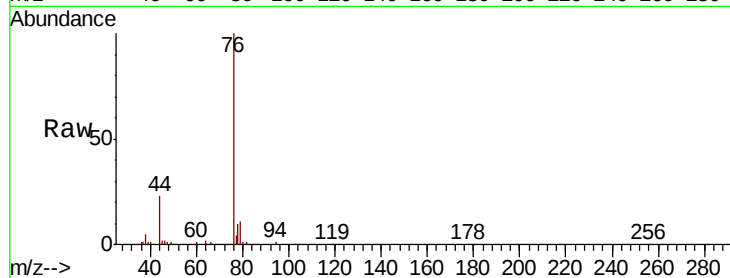
ClientSampleId :

VSTDIC001

Tot Ion:	76	Resp:	123144
Ion	Ratio	Lower	Upper
76	100		
44	23.8	17.3	25.9
78	10.8	7.8	11.6

Manual Integrations
APPROVED

MMDadoda
11/20/2019 3:53:05 PM



#28

Methyl tert-Butyl Ether

Concen: 1.241 ppbv

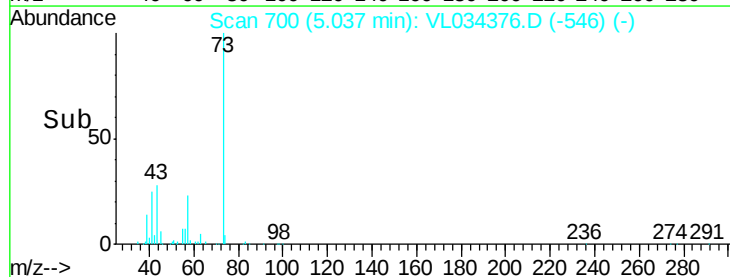
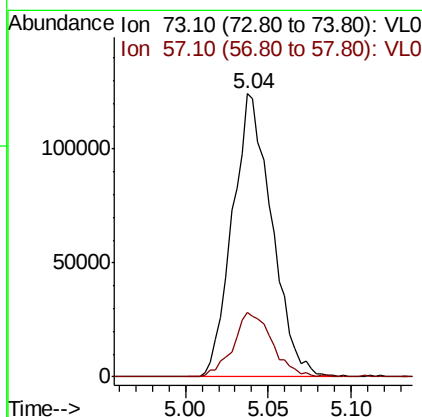
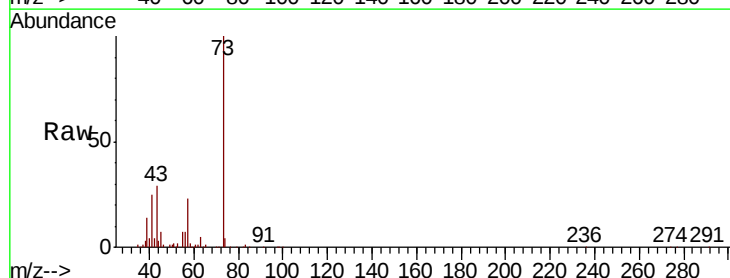
RT: 5.04 min Scan# 700

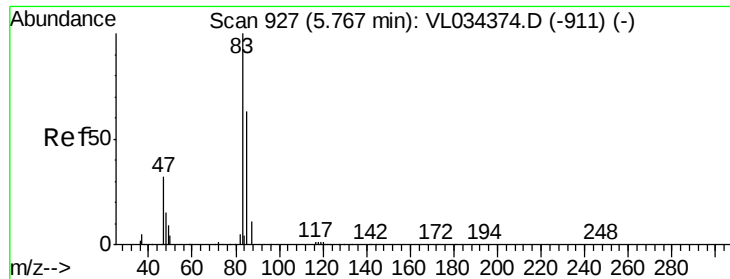
Delta R.T. -0.01 min

Lab File: VL034376.D

Acq: 19 Nov 2019 11:08

Tgt Ion:	73	Resp:	204832
Ion	Ratio	Lower	Upper
73	100		
57	22.9	19.2	28.8





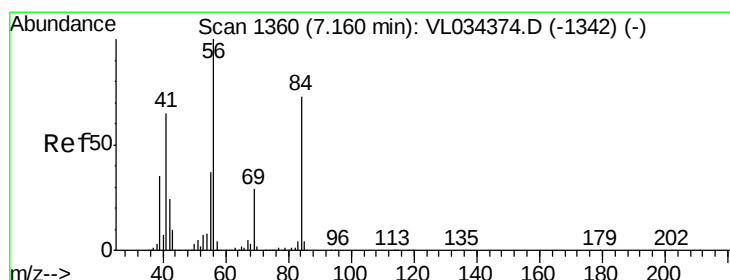
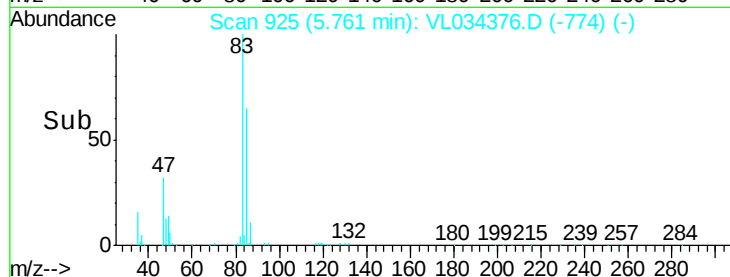
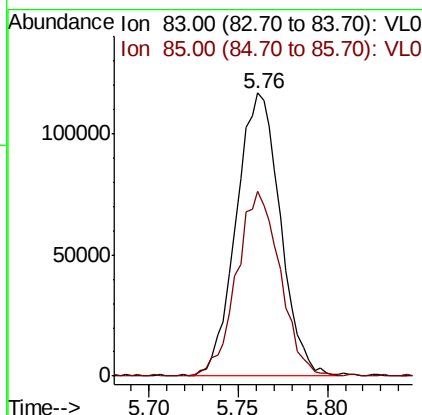
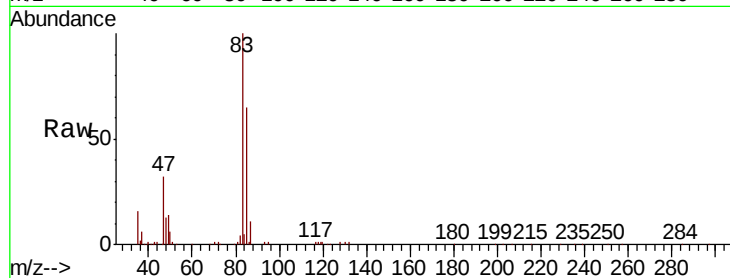
#29
Chloroform
Concen: 1.165 ppbv
RT: 5.76 min Scan# 925
Delta R.T. -0.02 min
Lab File: VL034376.D
Acq: 19 Nov 2019 11:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	83	Resp	200949
Ion Ratio	Lower	Upper	
83	100		
85	65.3	50.5	75.7

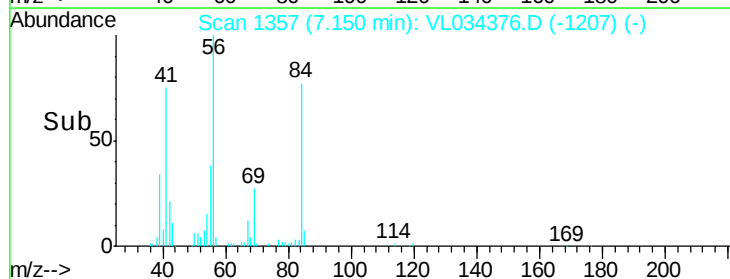
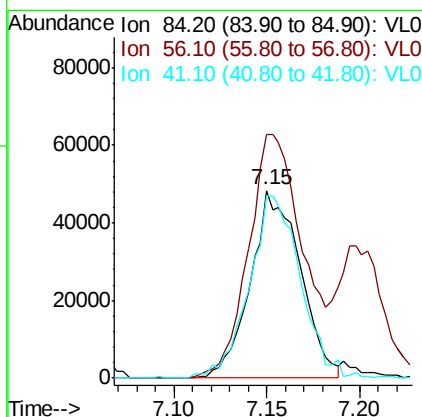
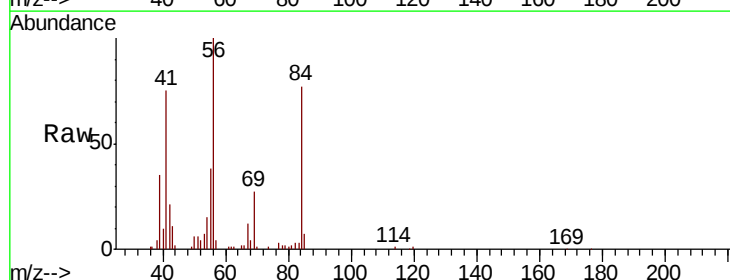
Manual Integrations
APPROVED

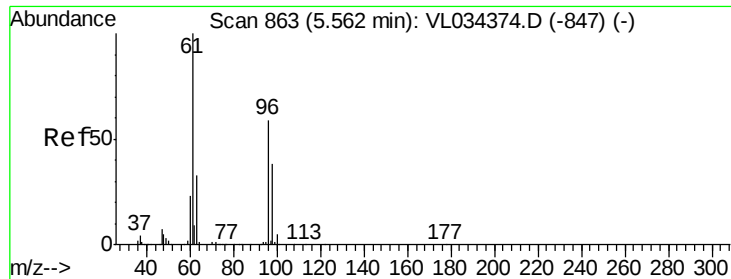
MMDadoda
11/20/2019 3:53:05 PM



#30
Cyclohexane
Concen: 1.123 ppbv
RT: 7.15 min Scan# 1357
Delta R.T. -0.02 min
Lab File: VL034376.D
Acq: 19 Nov 2019 11:08

Tgt Ion	84	Resp	90088
Ion Ratio	Lower	Upper	
84	100		
56	144.6	119.4	179.0
41	100.3	78.7	118.1





#31

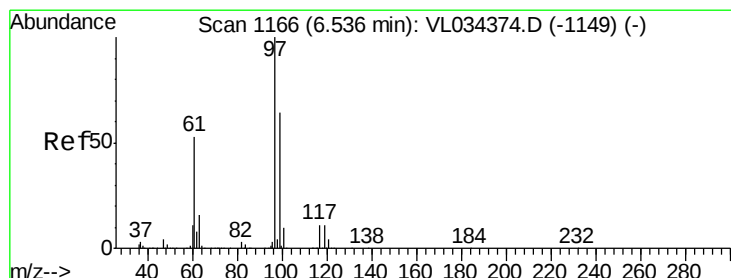
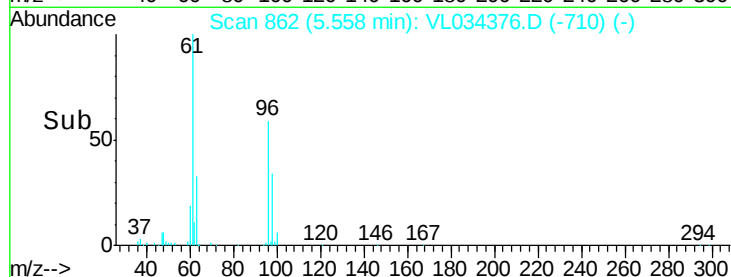
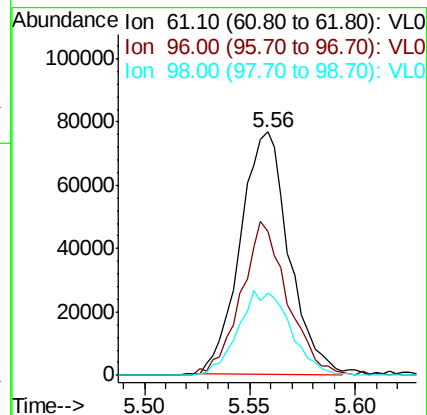
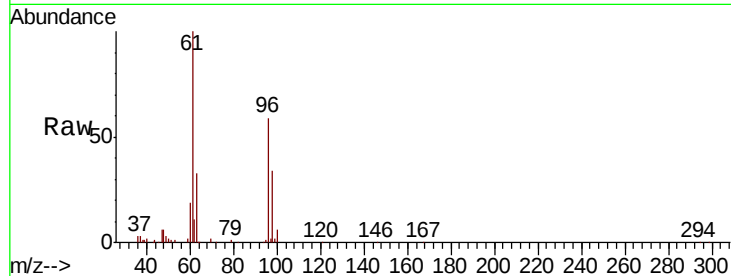
cis-1,2-Dichloroethene
Concen: 1.111 ppbv
RT: 5.56 min Scan# 862
Delta R.T. -0.01 min
Lab File: VL034376.D
Acq: 19 Nov 2019 11:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
61	100		
96	59.4	47.5	71.3
98	34.2	28.8	43.2

Manual Integrations
APPROVED

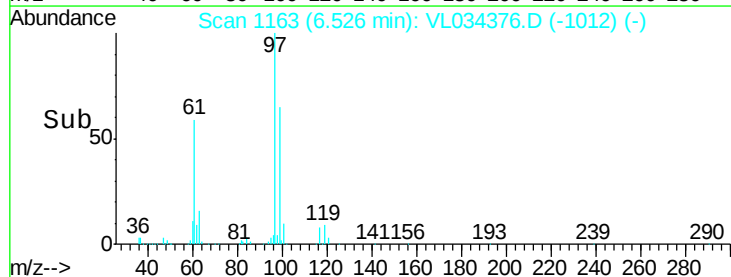
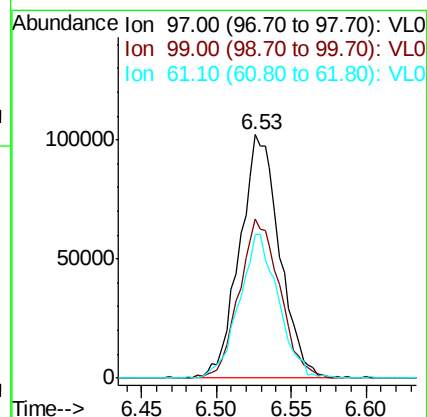
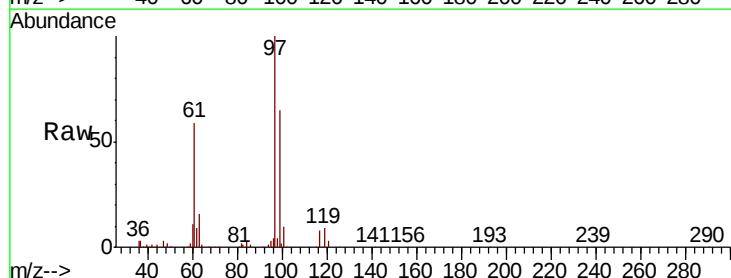
MMDadoda
11/20/2019 3:53:05 PM

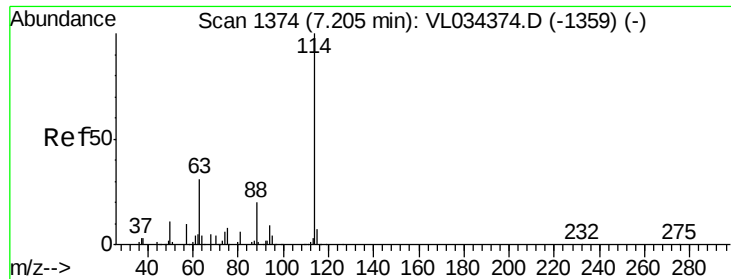


#32

1,1,1-Trichloroethane
Concen: 1.129 ppbv
RT: 6.53 min Scan# 1163
Delta R.T. -0.02 min
Lab File: VL034376.D
Acq: 19 Nov 2019 11:08

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.6	52.6	78.8
61	57.8	44.5	66.7





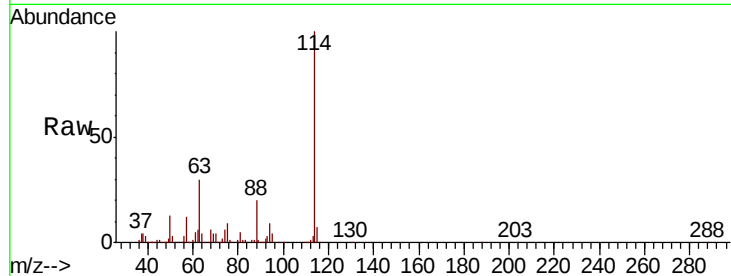
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1372
 Delta R.T. -0.02 min
 Lab File: VL034376.D
 Acq: 19 Nov 2019 11:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

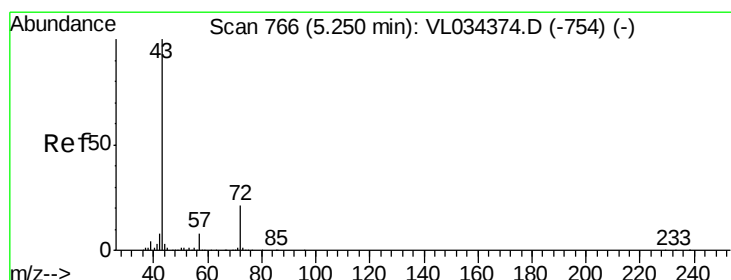
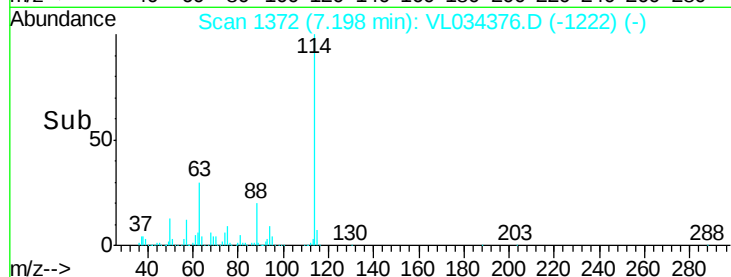
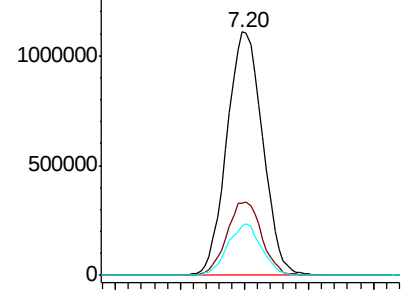
Tot Ion	Ratio	Lower	Upper
114	100		
63	29.6	25.2	37.8
88	19.8	16.0	24.0

Manual Integrations
 APPROVED

MMDadoda
 11/20/2019 3:53:05 PM

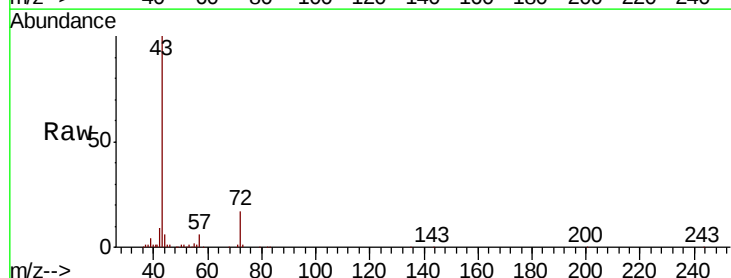


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

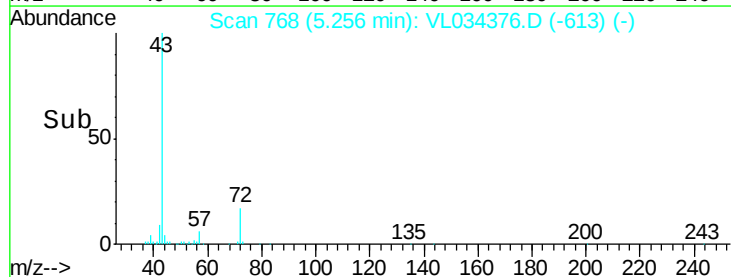
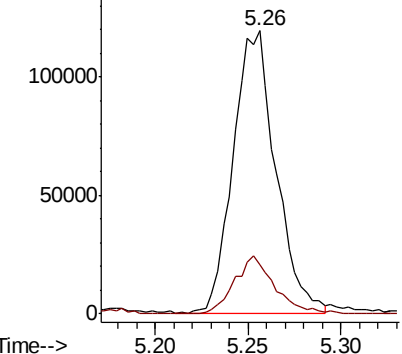


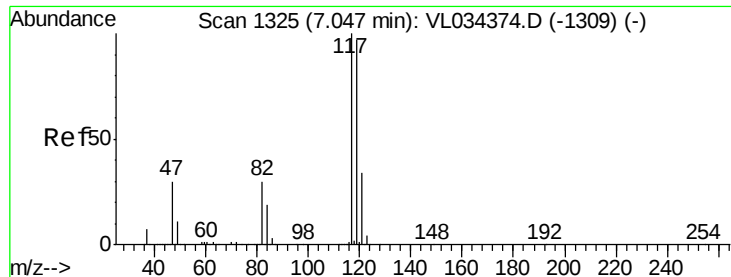
#34
 2-Butanone
 Concen: 1.091 ppbv
 RT: 5.26 min Scan# 768
 Delta R.T. -0.00 min
 Lab File: VL034376.D
 Acq: 19 Nov 2019 11:08

Tgt Ion	Ratio	Lower	Upper
43	100		
72	19.4	16.3	24.5



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 1.045 ppbv

RT: 7.04 min Scan# 1324

Delta R.T. -0.01 min

Lab File: VL034376.D

Acq: 19 Nov 2019 11:08

Instrument :

MSVOA_L

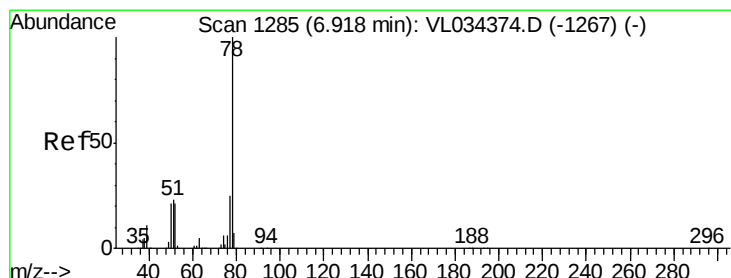
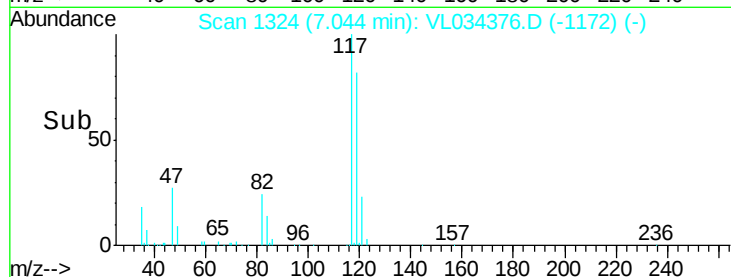
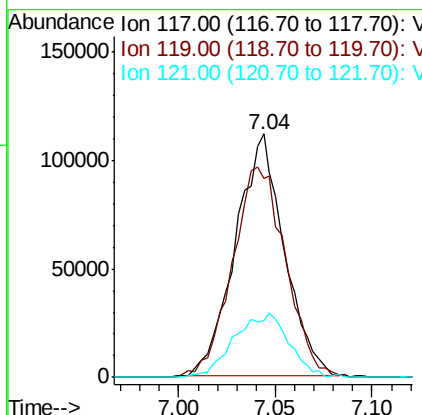
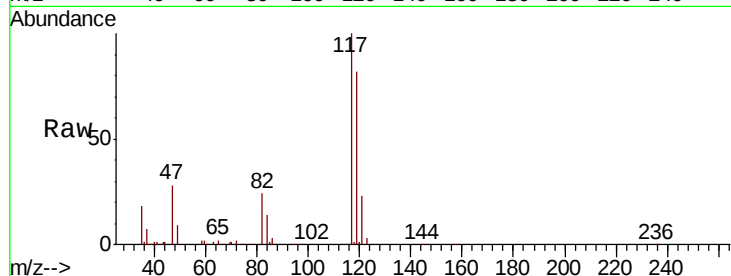
ClientSampled :

VSTDIC001

Tot Ion:	117	Resp:	195397
Ion Ratio	Lower	Upper	
117	100		
119	80.9	77.3	115.9
121	22.5	25.5	38.3#

Manual Integrations
APPROVED

MMDadoda
11/20/2019 3:53:05 PM



#36

Benzene

Concen: 1.127 ppbv

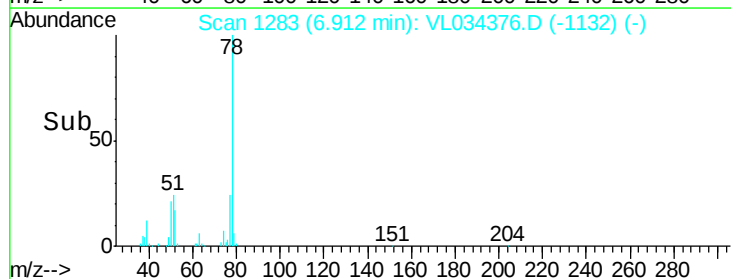
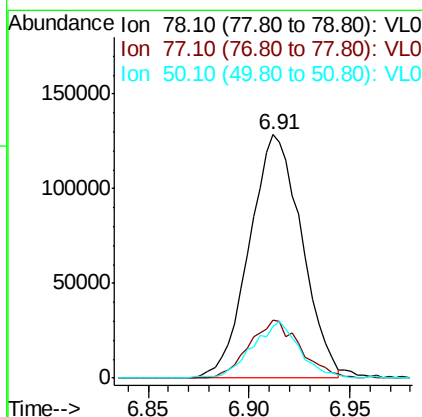
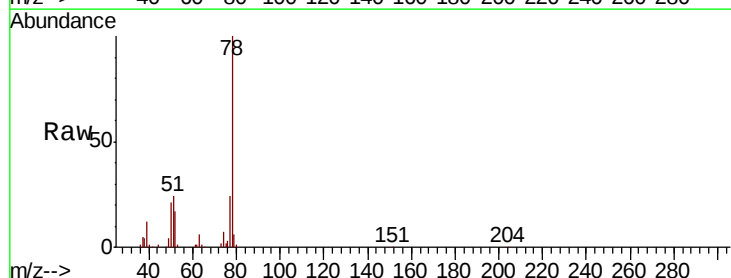
RT: 6.91 min Scan# 1283

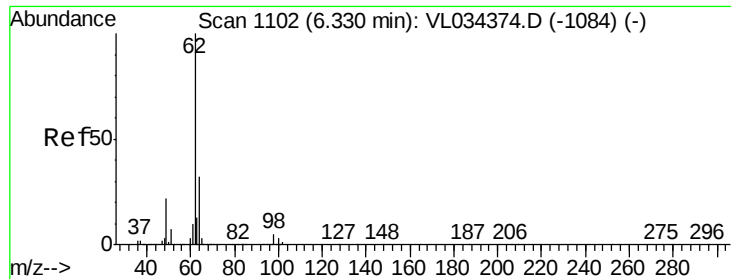
Delta R.T. -0.02 min

Lab File: VL034376.D

Acq: 19 Nov 2019 11:08

Tgt Ion:	78	Resp:	232106
Ion Ratio	Lower	Upper	
78	100		
77	23.7	19.0	28.4
50	21.3	18.6	27.8





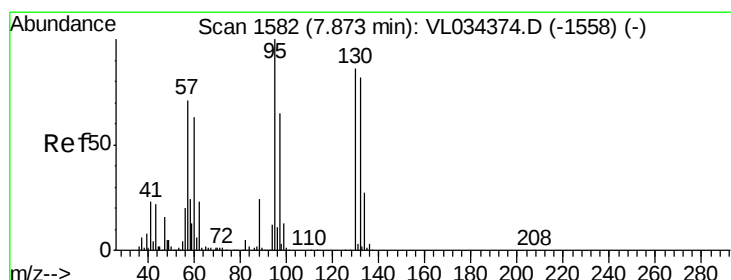
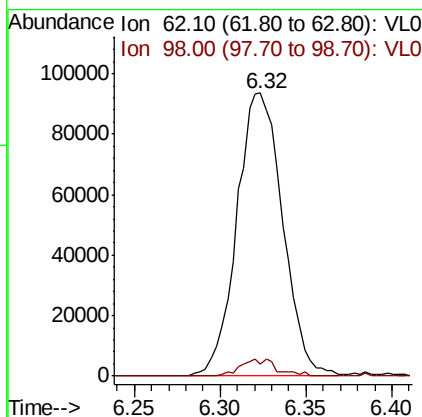
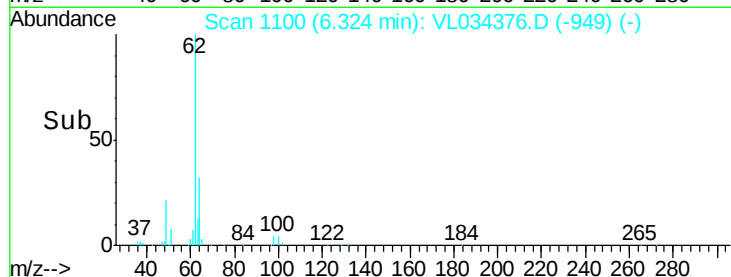
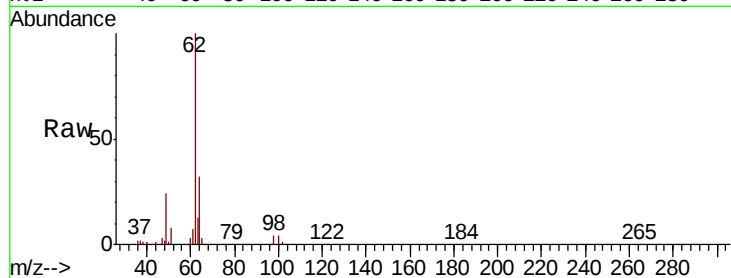
#37
 1,2-Dichloroethane
 Concen: 1.131 ppbv
 RT: 6.32 min Scan# 1100
 Delta R.T. -0.02 min
 Lab File: VL034376.D
 Acq: 19 Nov 2019 11:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
62	100		
98	4.9	3.8	5.6

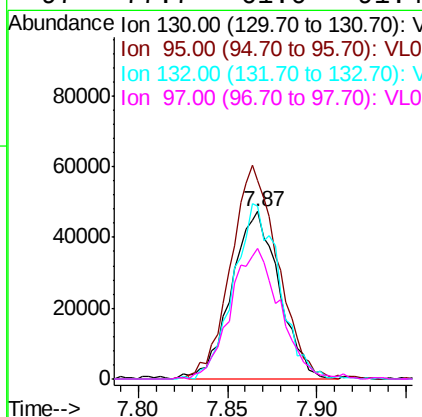
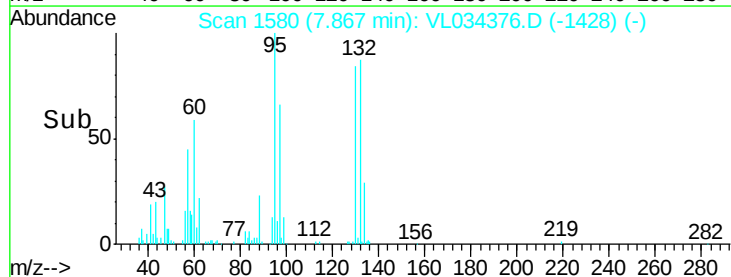
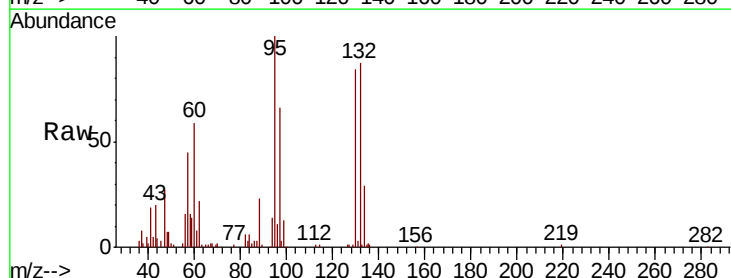
Manual Integrations
 APPROVED

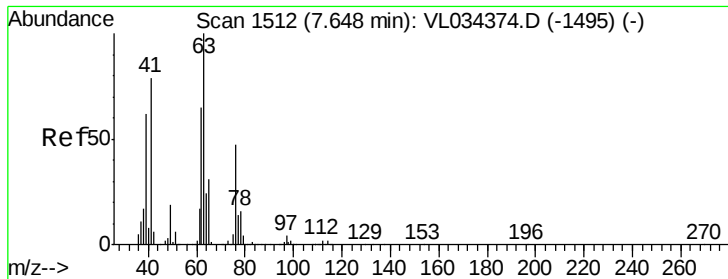
MMDadoda
 11/20/2019 3:53:05 PM



#38
 Trichloroethene
 Concen: 1.058 ppbv
 RT: 7.87 min Scan# 1580
 Delta R.T. -0.01 min
 Lab File: VL034376.D
 Acq: 19 Nov 2019 11:08

Tgt Ion	Ratio	Lower	Upper
130	100		
95	116.5	88.6	132.8
132	103.7	71.2	106.8
97	77.7	61.0	91.4





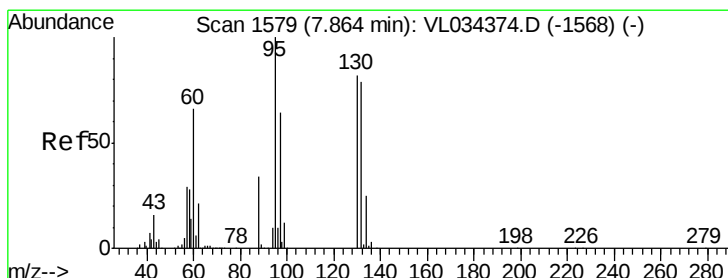
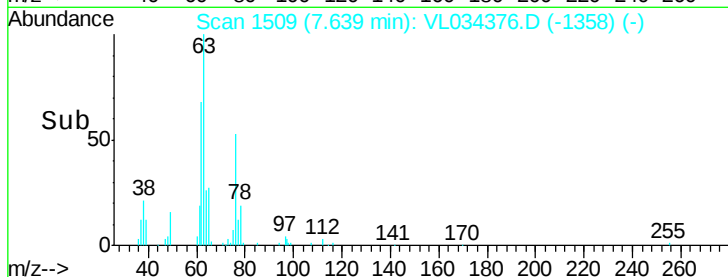
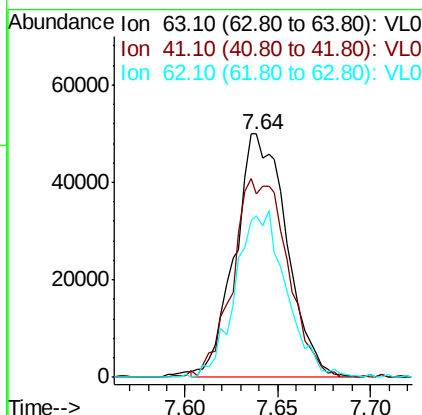
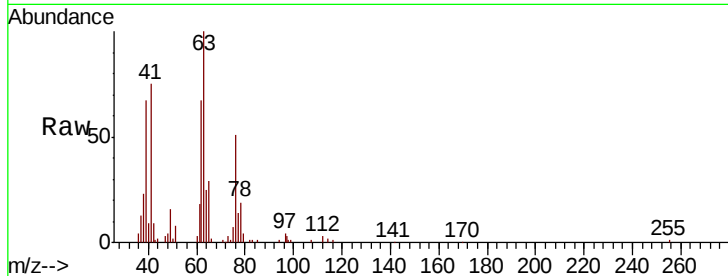
#39
 1,2-Dichloropropane
 Concen: 1.090 ppbv m
 RT: 7.64 min Scan# 1509
 Delta R.T. -0.02 min
 Lab File: VL034376.D
 Acq: 19 Nov 2019 11:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
63	100		
41	75.4	65.6	98.4
62	66.5	53.0	79.6

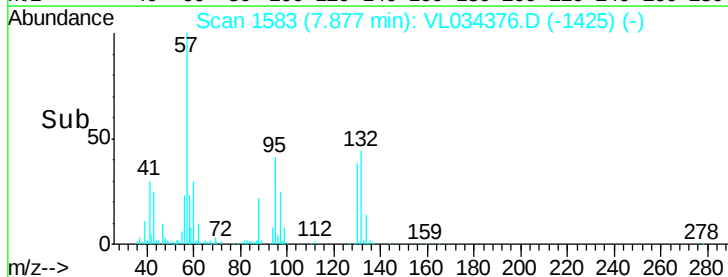
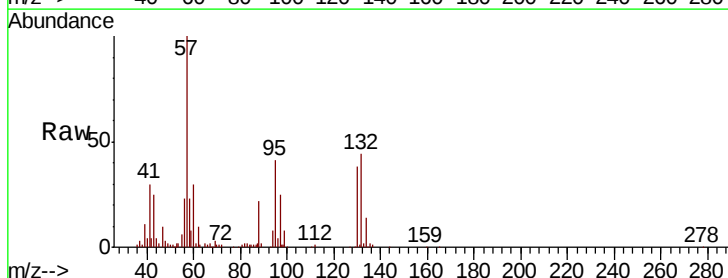
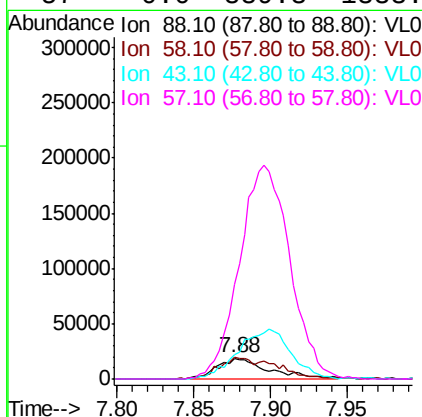
Manual Integrations
 APPROVED

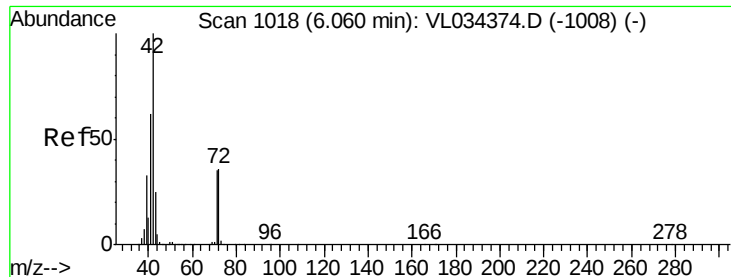
MMDadoda
 11/20/2019 3:53:05 PM



#40
 1,4-Dioxane
 Concen: 1.427 ppbv m
 RT: 7.88 min Scan# 1583
 Delta R.T. 0.01 min
 Lab File: VL034376.D
 Acq: 19 Nov 2019 11:08

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	110.3	165.5#
43	0.0	228.1	342.1#
57	0.0	889.3	1333.9#





#41

Tetrahydrofuran

Concen: 1.070 ppbv m

RT: 6.07 min Scan# 1022

Delta R.T. 0.00 min

Lab File: VL034376.D

Acq: 19 Nov 2019 11:08

Instrument :

MSVOA_L

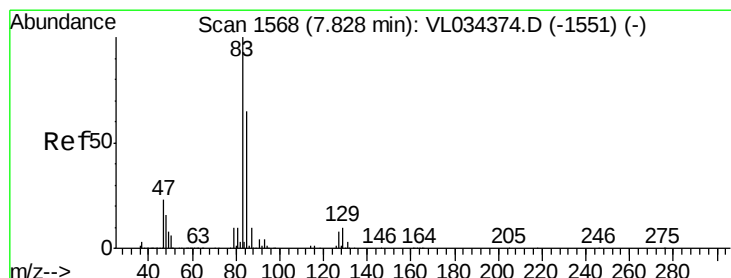
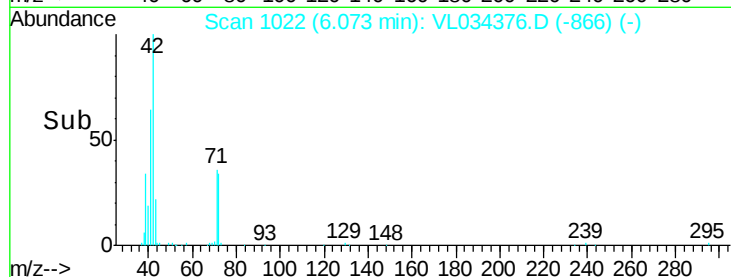
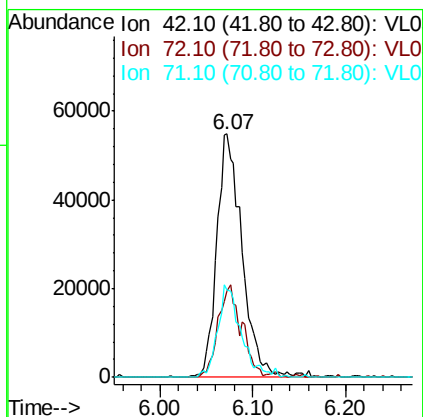
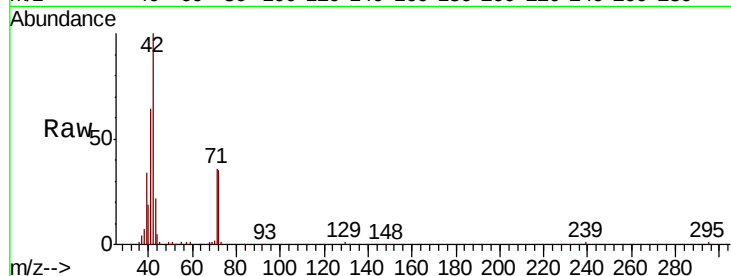
ClientSampleId :

VSTDIC001

Tot Ion:	42	Resp:	104201
Ion Ratio		Lower	Upper
42	100		
72	36.3	28.0	42.0
71	35.0	27.3	40.9

Manual Integrations
APPROVED

MMDadoda
11/20/2019 3:53:05 PM



#42

Bromodichloromethane

Concen: 1.133 ppbv m

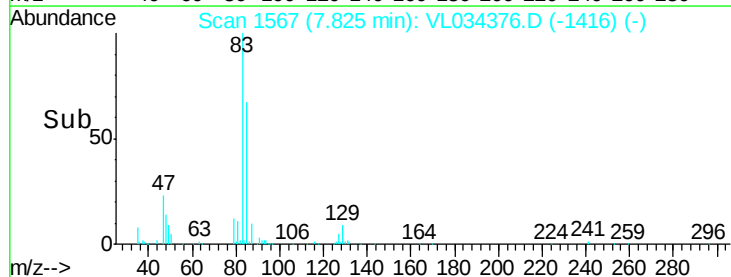
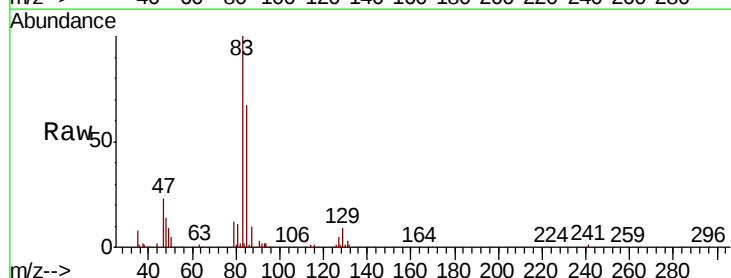
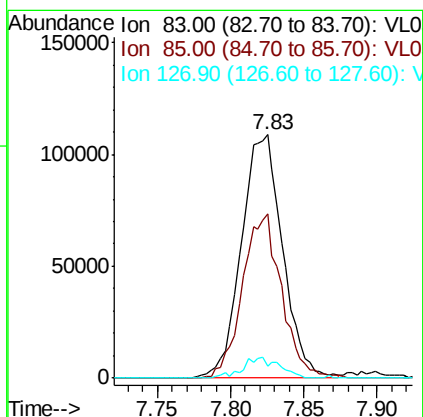
RT: 7.83 min Scan# 1567

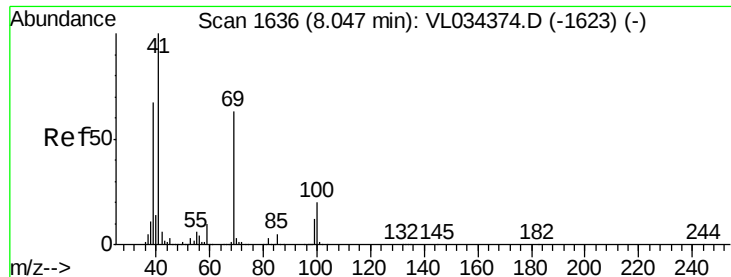
Delta R.T. -0.02 min

Lab File: VL034376.D

Acq: 19 Nov 2019 11:08

Tgt Ion:	83	Resp:	213121
Ion Ratio		Lower	Upper
83	100		
85	67.5	51.8	77.6
127	5.1	7.0	10.6#





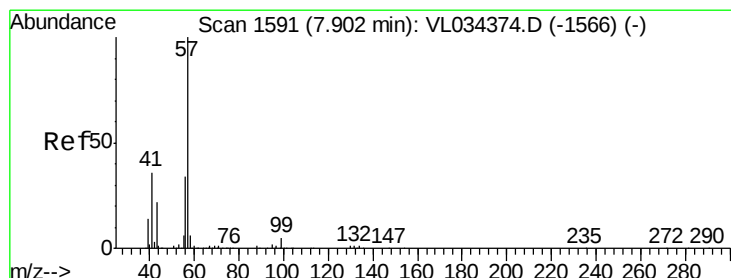
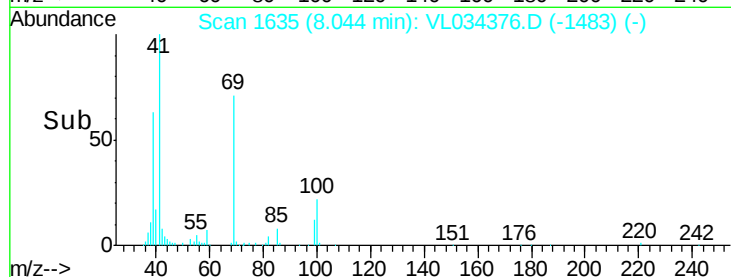
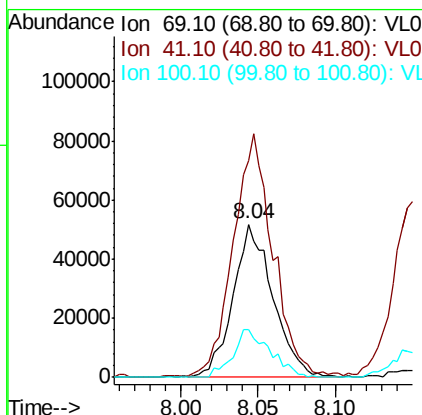
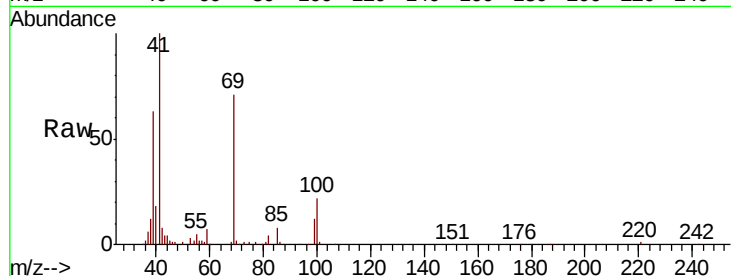
#43
Methyl Methacrylate
Concen: 1.087 ppbv
RT: 8.04 min Scan# 1635
Delta R.T. -0.01 min
Lab File: VL034376.D
Acq: 19 Nov 2019 11:08

Instrument :
MSVOA_L
ClientSampled :
VSTDIC001

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	159.7	132.1	198.1	
100	29.5	23.2	34.8	

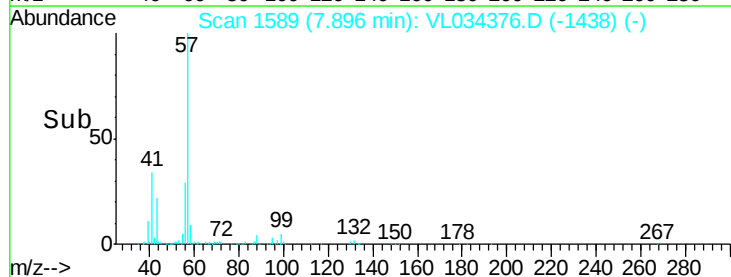
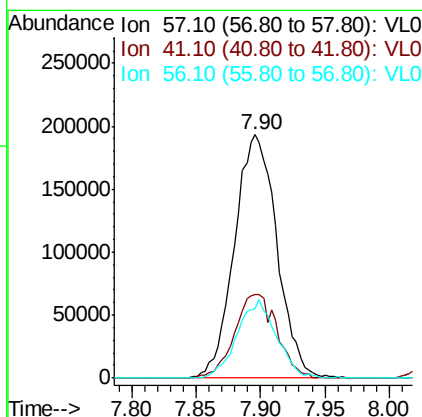
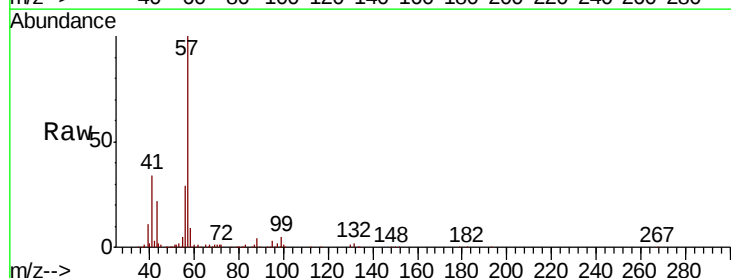
Manual Integrations
APPROVED

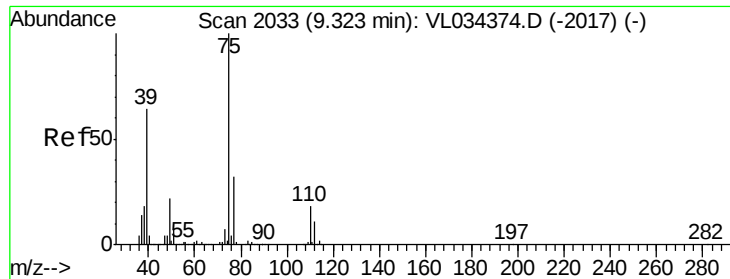
MMDadoda
11/20/2019 3:53:05 PM



#44
2,2,4-Trimethylpentane
Concen: 1.163 ppbv
RT: 7.90 min Scan# 1589
Delta R.T. -0.02 min
Lab File: VL034376.D
Acq: 19 Nov 2019 11:08

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	34.7	29.3	43.9	
56	29.9	25.3	37.9	





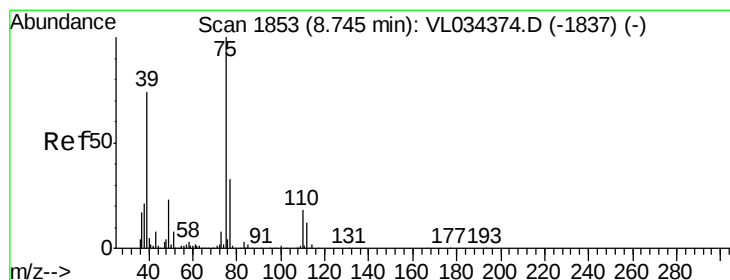
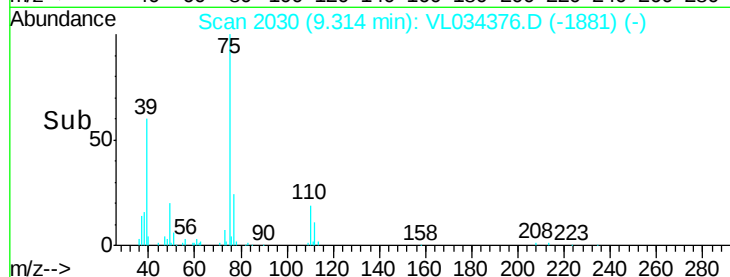
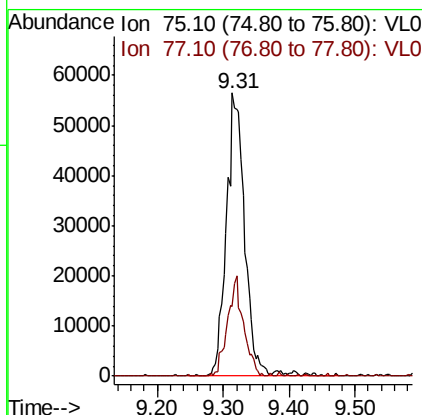
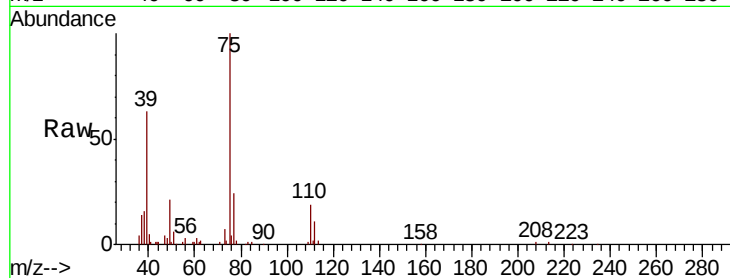
#45
t-1,3-Dichloropropene
Concen: 1.055 ppbv m
RT: 9.31 min Scan# 2030
Delta R.T. -0.02 min
Lab File: VL034376.D
Acq: 19 Nov 2019 11:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 75 Resp: 109544
Ion Ratio Lower Upper
75 100
77 24.4 25.6 38.4#

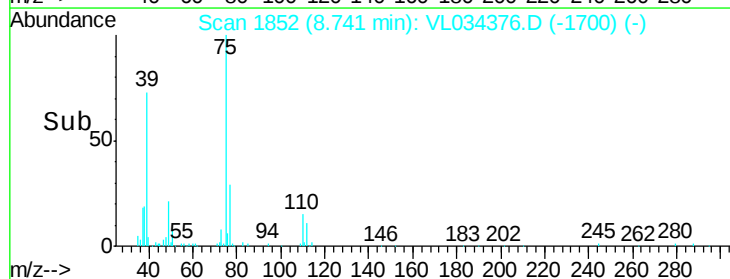
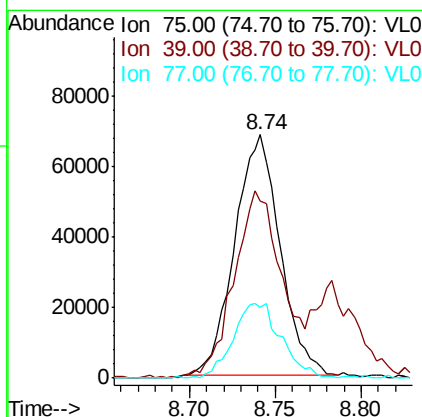
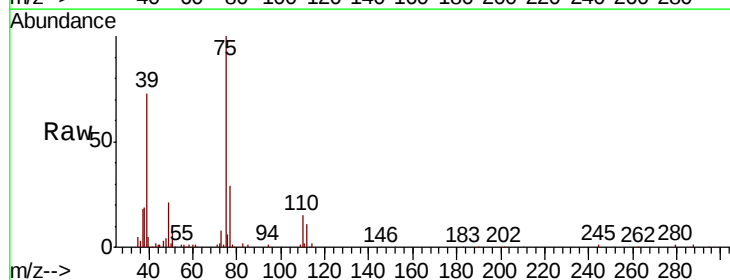
Manual Integrations
APPROVED

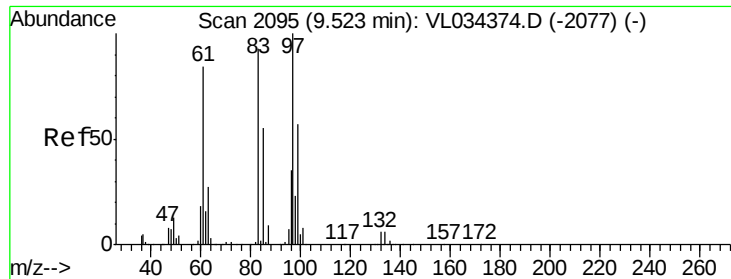
MMDadoda
11/20/2019 3:53:05 PM



#46
cis-1,3-Dichloropropene
Concen: 1.054 ppbv
RT: 8.74 min Scan# 1852
Delta R.T. -0.01 min
Lab File: VL034376.D
Acq: 19 Nov 2019 11:08

Tgt Ion: 75 Resp: 125720
Ion Ratio Lower Upper
75 100
39 71.8 61.2 91.8
77 29.2 25.9 38.9





#47

1,1,2-Trichloroethane

Concen: 1.067 ppbv m

RT: 9.52 min Scan# 2094

Delta R.T. -0.01 min

Lab File: VL034376.D

Acq: 19 Nov 2019 11:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 97 Resp: 95870

Ion Ratio Lower Upper

97 100

83 95.3 74.2 111.2

85 54.0 48.6 73.0

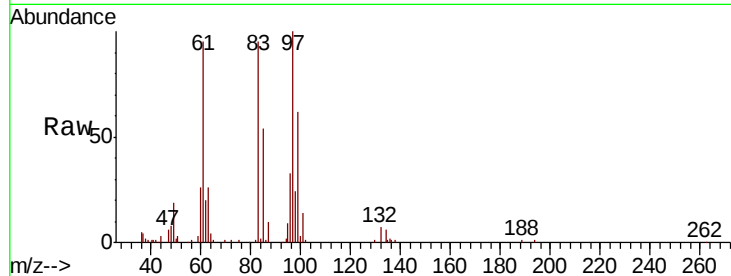
99 61.9 47.0 70.6

Manual Integrations

APPROVED

MMDadoda

11/20/2019 3:53:05 PM

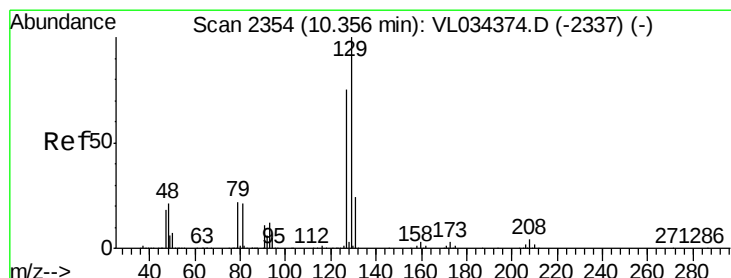
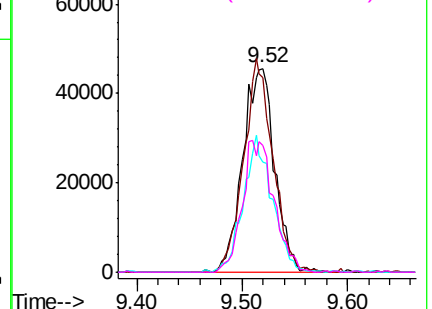
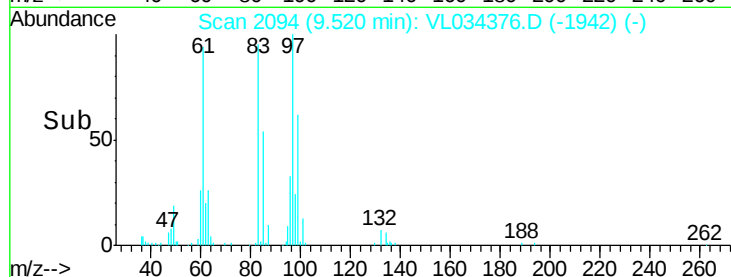


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 1.115 ppbv m

RT: 10.35 min Scan# 2352

Delta R.T. -0.02 min

Lab File: VL034376.D

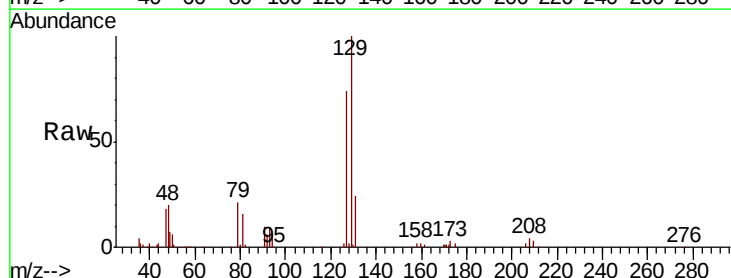
Acq: 19 Nov 2019 11:08

Tgt Ion: 129 Resp: 164414

Ion Ratio Lower Upper

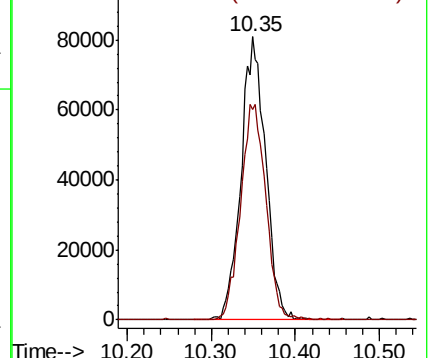
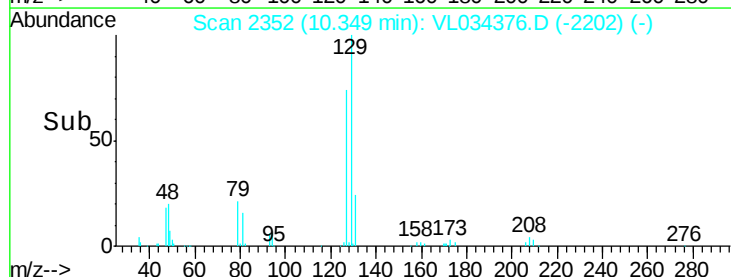
129 100

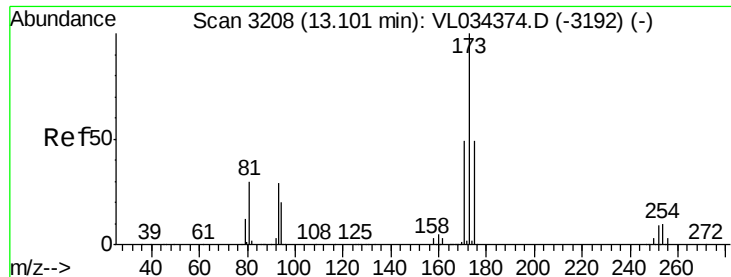
127 0.0 39.7 119.1#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 1.081 ppbv

RT: 13.09 min Scan# 3206

Delta R.T. -0.02 min

Lab File: VL034376.D

Acq: 19 Nov 2019 11:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion:173 Resp: 141220

Ion Ratio Lower Upper

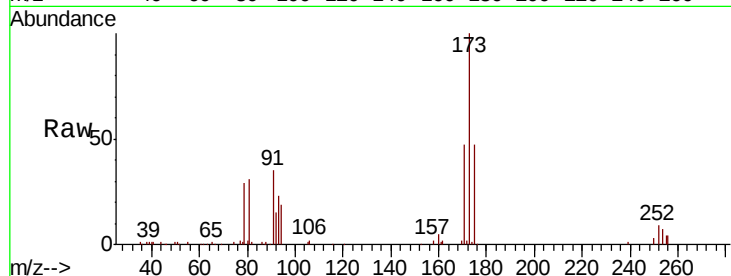
173 100

175 51.2 39.8 59.6

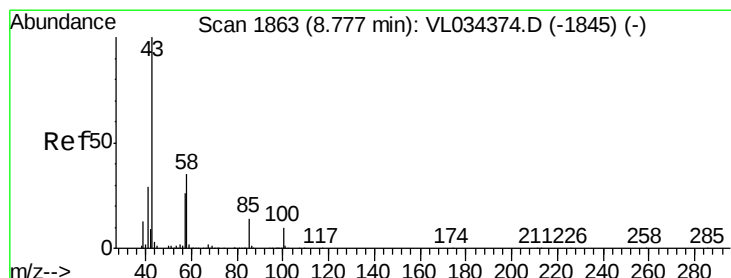
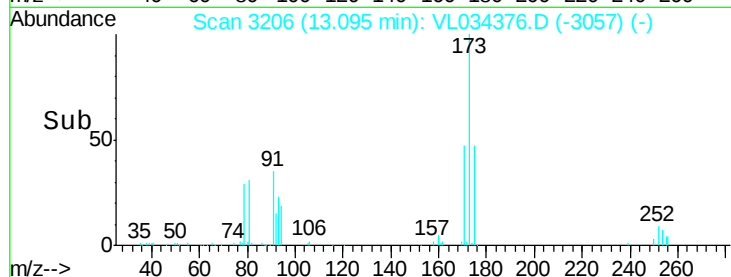
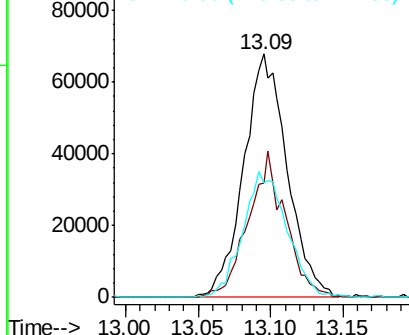
171 52.8 41.8 62.6

Manual Integrations
APPROVED

MMDadoda
11/20/2019 3:53:05 PM



Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 1.105 ppbv

RT: 8.78 min Scan# 1865

Delta R.T. -0.01 min

Lab File: VL034376.D

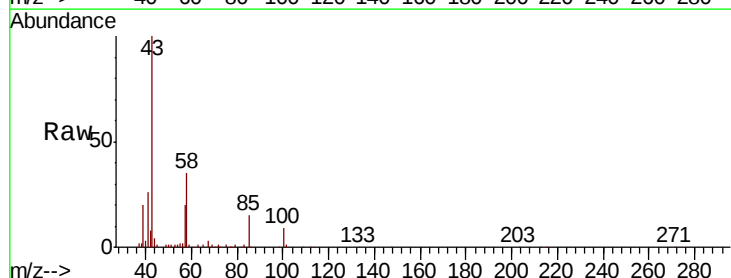
Acq: 19 Nov 2019 11:08

Tgt Ion: 43 Resp: 277607

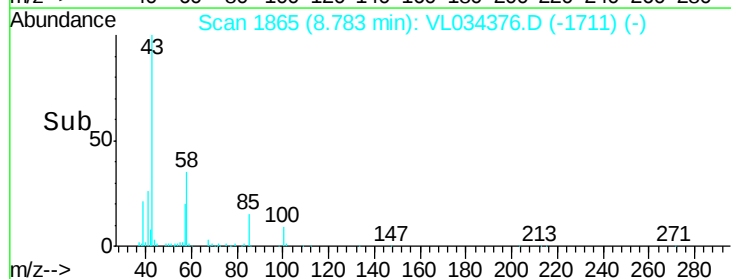
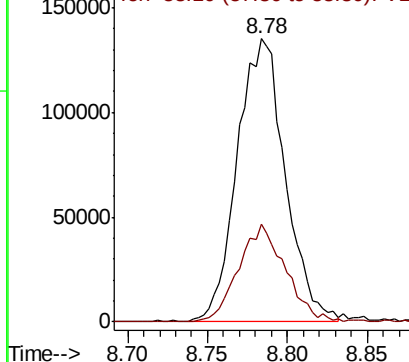
Ion Ratio Lower Upper

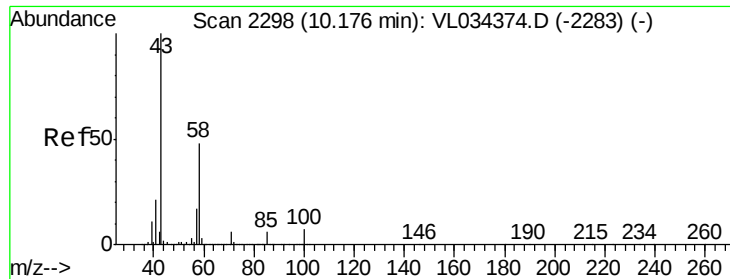
43 100

58 34.1 27.6 41.4



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0





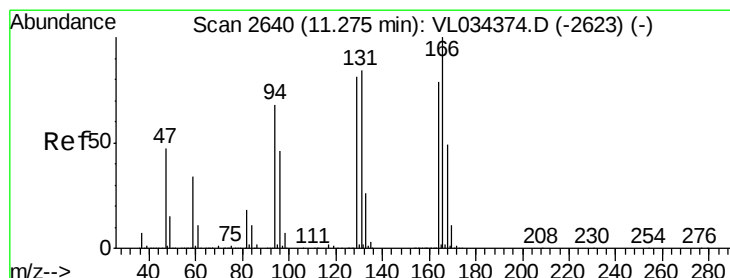
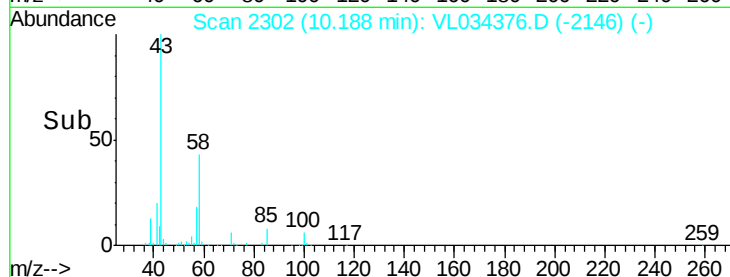
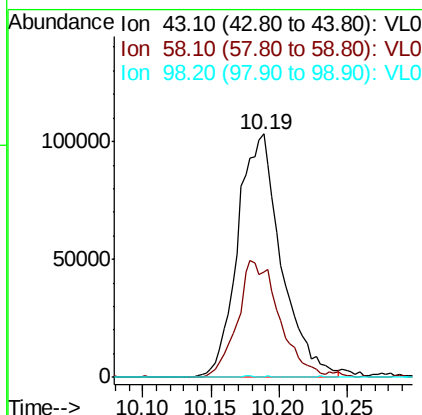
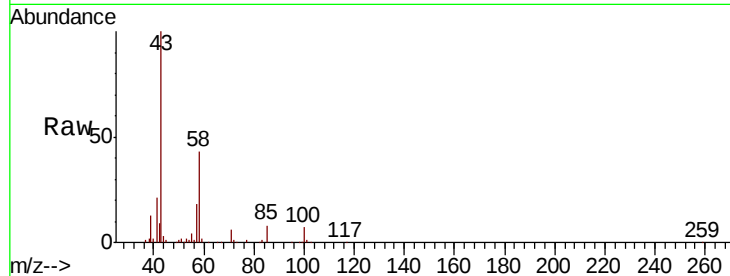
#51
2-Hexanone
Concen: 1.113 ppbv
RT: 10.19 min Scan# 2302
Delta R.T. -0.00 min
Lab File: VL034376.D
Acq: 19 Nov 2019 11:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
43	100		
58	46.6	37.0	55.6
98	0.4	0.2	0.2#

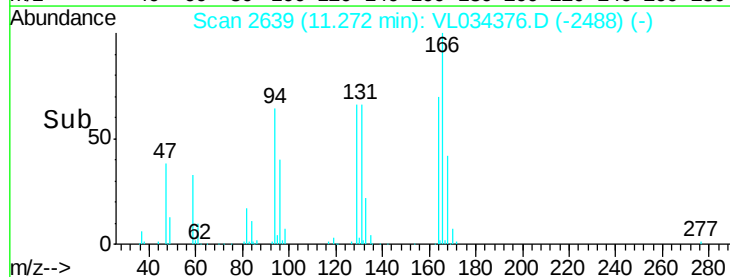
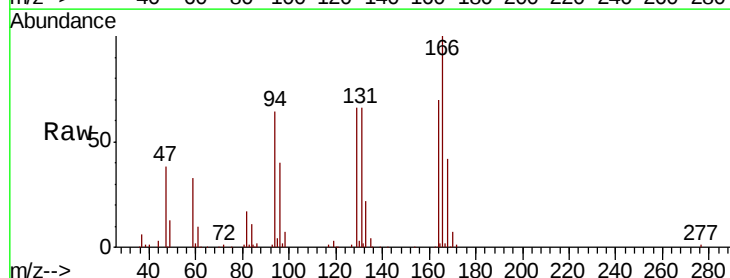
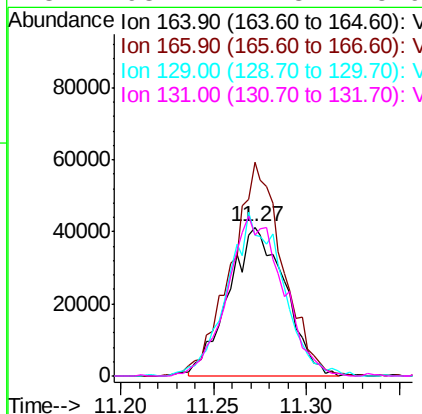
Manual Integrations
APPROVED

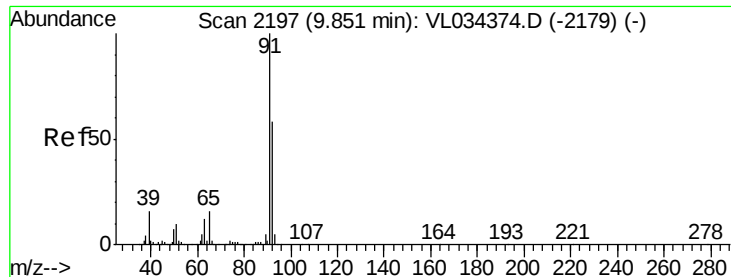
MMDadoda
11/20/2019 3:53:05 PM



#52
Tetrachloroethene
Concen: 1.089 ppbv
RT: 11.27 min Scan# 2639
Delta R.T. -0.02 min
Lab File: VL034376.D
Acq: 19 Nov 2019 11:08

Tgt Ion	Ratio	Lower	Upper
164	100		
166	142.2	95.3	142.9
129	91.0	84.5	126.7
131	93.1	77.3	115.9





#53

Toluene

Concen: 1.156 ppbv

RT: 9.85 min Scan# 2196

Delta R.T. -0.02 min

Lab File: VL034376.D

Acq: 19 Nov 2019 11:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 262887

Ion Ratio Lower Upper

91 100

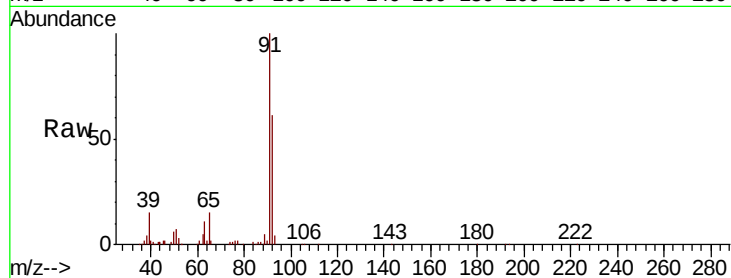
92 58.5 48.4 72.6

Manual Integrations

APPROVED

MMDadoda

11/20/2019 3:53:05 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

150000

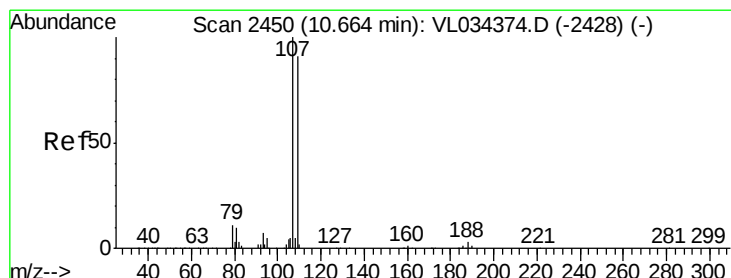
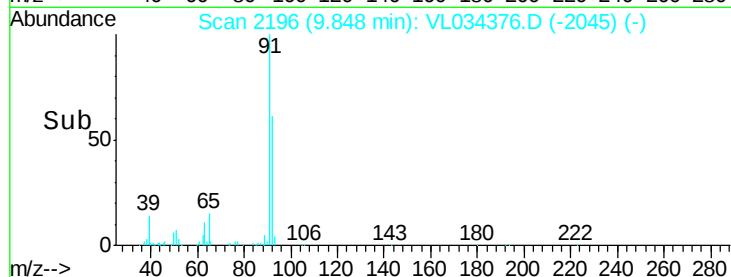
100000

50000

0

9.80 9.85 9.90

Time-->



#54

1,2-Dibromoethane

Concen: 1.148 ppbv

RT: 10.66 min Scan# 2448

Delta R.T. -0.02 min

Lab File: VL034376.D

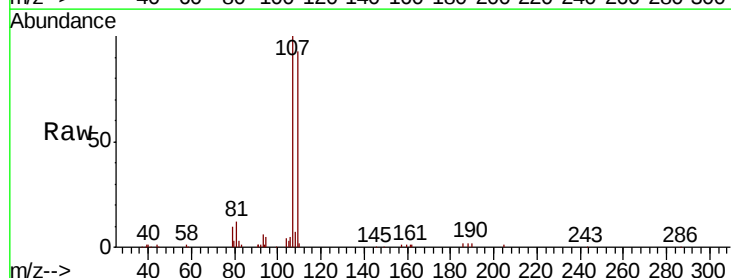
Acq: 19 Nov 2019 11:08

Tgt Ion: 107 Resp: 152832

Ion Ratio Lower Upper

107 100

109 93.1 74.6 112.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

80000

60000

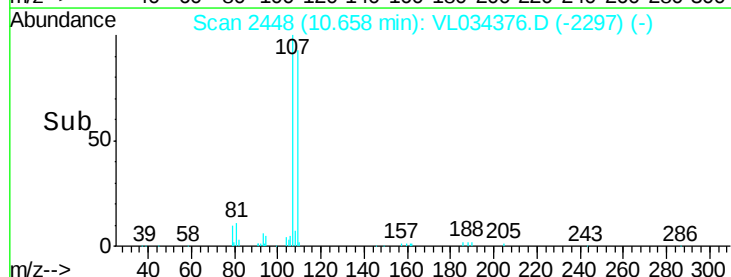
40000

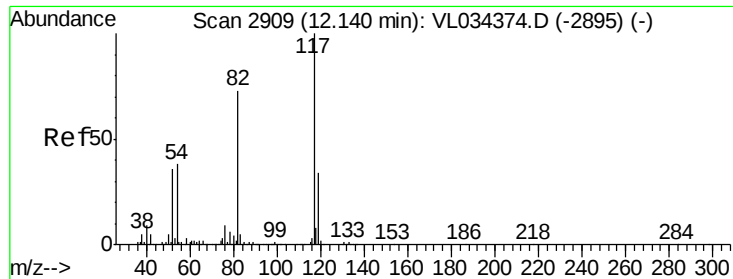
20000

0

10.60 10.65 10.70 10.75

Time-->





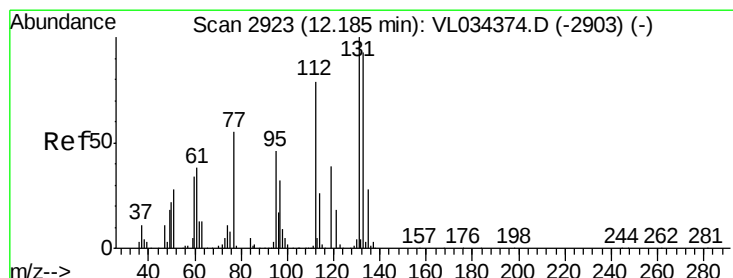
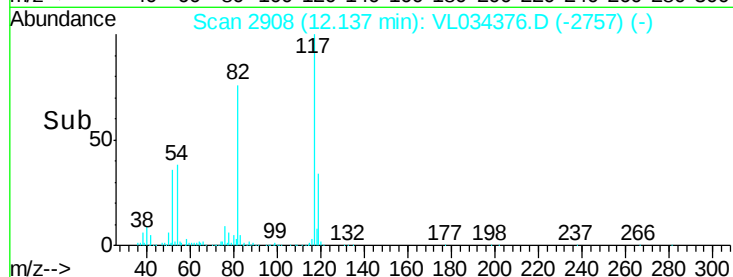
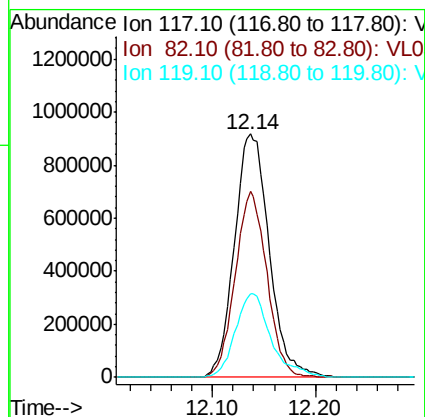
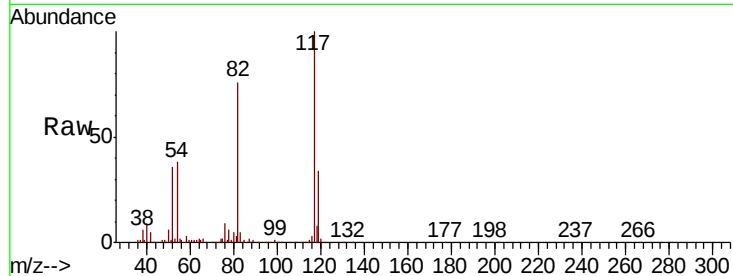
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.14 min Scan# 2908
Delta R.T. -0.02 min
Lab File: VL034376.D
Acq: 19 Nov 2019 11:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
117	100		
82	69.8	55.5	83.3
119	35.3	26.5	39.7

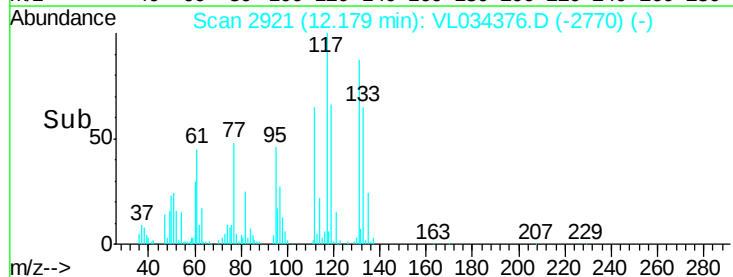
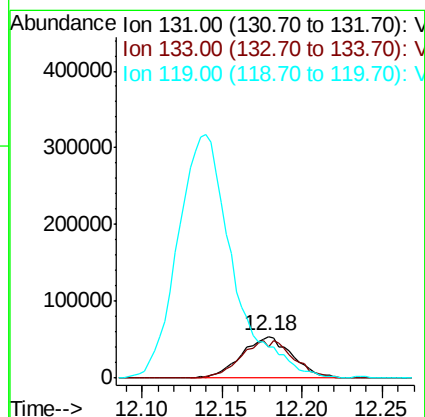
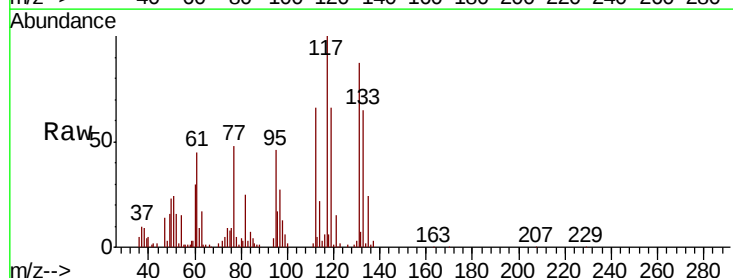
Manual Integrations
APPROVED

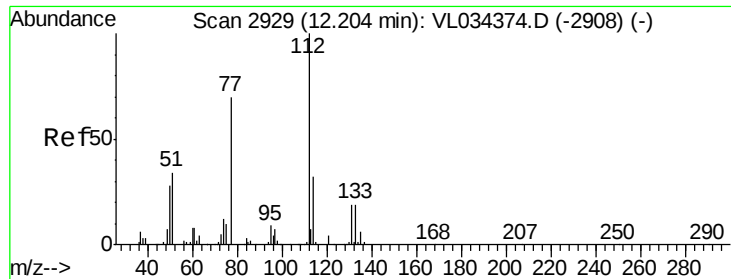
MMDadoda
11/20/2019 3:53:05 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 1.155 ppbv
RT: 12.18 min Scan# 2921
Delta R.T. -0.02 min
Lab File: VL034376.D
Acq: 19 Nov 2019 11:08

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.3	77.1	115.7
119	663.3	49.0	73.4#





#57

Chlorobenzene

Concen: 1.209 ppbv

RT: 12.20 min Scan# 2927

Delta R.T. -0.02 min

Lab File: VL034376.D

Acq: 19 Nov 2019 11:08

Instrument :

MSVOA_L

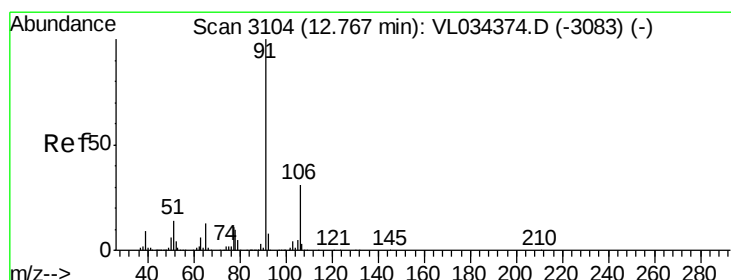
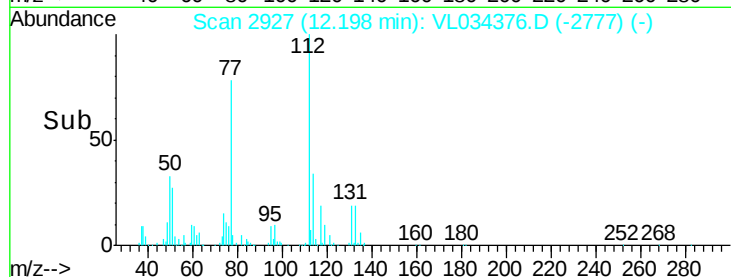
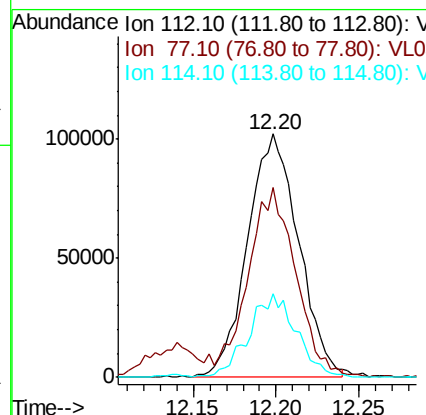
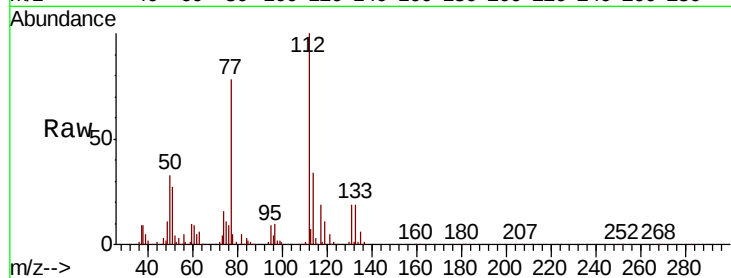
ClientSampleId :

VSTDIC001

Tot Ion:	112	Resp:	217616
Ion Ratio	Lower	Upper	
112	100		
77	75.9	58.6	88.0
114	34.3	28.6	35.0

Manual Integrations
APPROVED

MMDadoda
11/20/2019 3:53:05 PM



#58

Ethyl Benzene

Concen: 1.195 ppbv

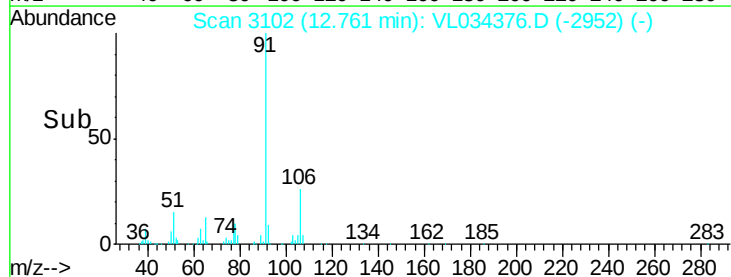
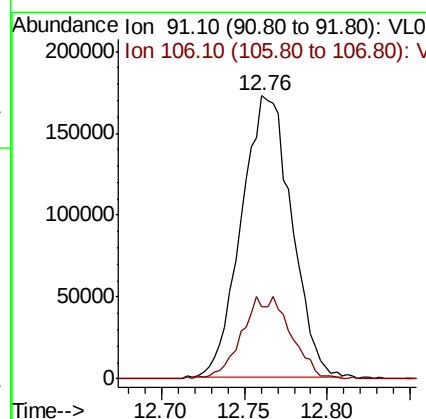
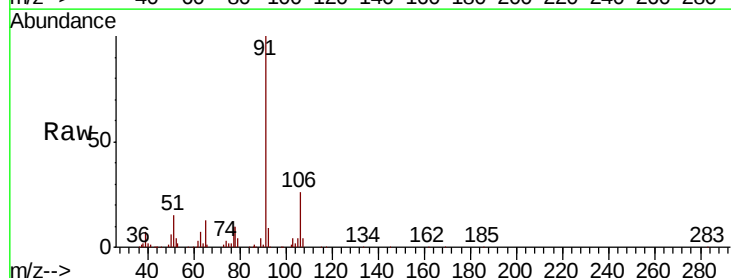
RT: 12.76 min Scan# 3102

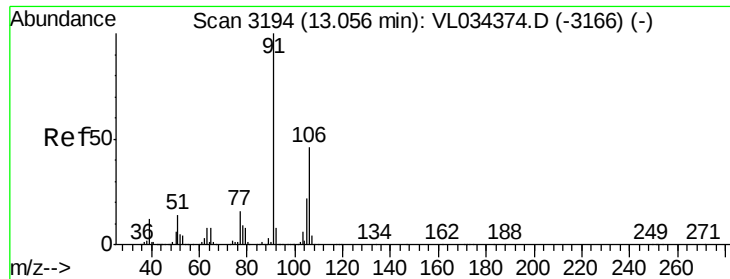
Delta R.T. -0.02 min

Lab File: VL034376.D

Acq: 19 Nov 2019 11:08

Tgt Ion:	91	Resp:	360470
Ion Ratio	Lower	Upper	
91	100		
106	25.6	25.3	37.9





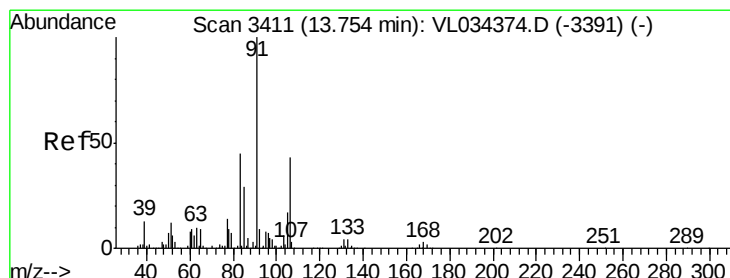
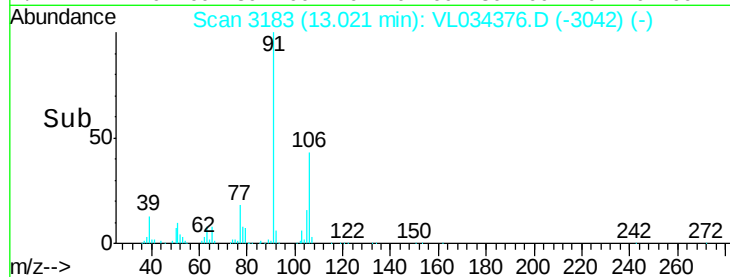
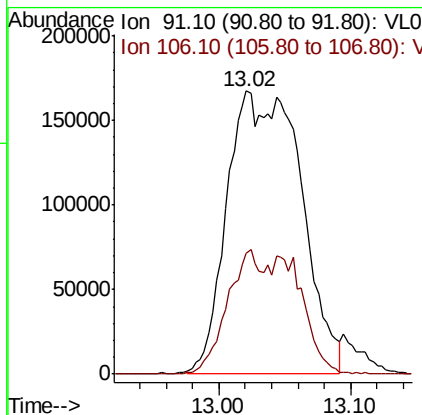
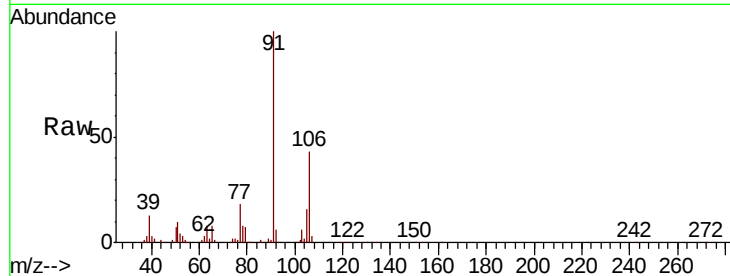
#59
m/p-Xylene
Concen: 2.496 ppbv m
RT: 13.02 min Scan# 3183
Delta R.T. -0.05 min
Lab File: VL034376.D
Acq: 19 Nov 2019 11:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 91 Resp: 652400
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2#

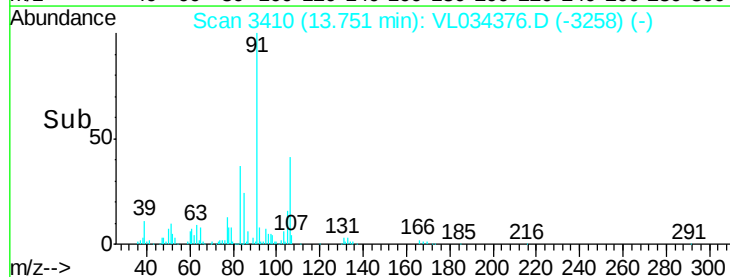
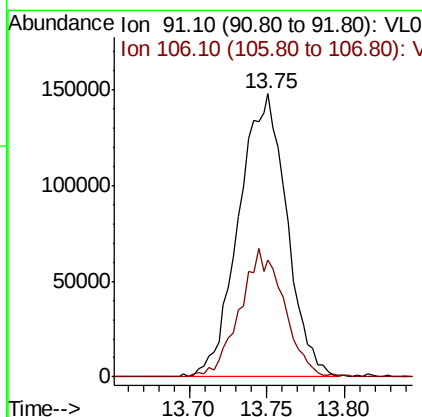
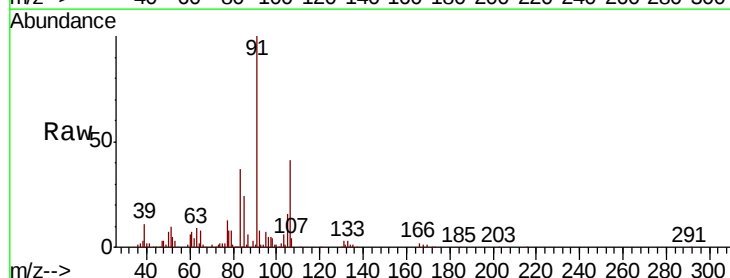
Manual Integrations
APPROVED

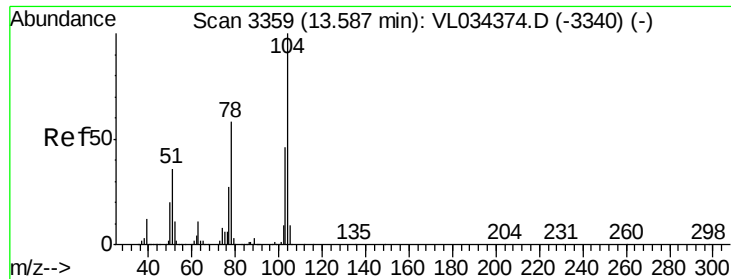
MMDadoda
11/20/2019 3:53:05 PM



#60
o-Xylene
Concen: 1.216 ppbv
RT: 13.75 min Scan# 3410
Delta R.T. -0.01 min
Lab File: VL034376.D
Acq: 19 Nov 2019 11:08

Tgt Ion: 91 Resp: 316379
Ion Ratio Lower Upper
91 100
106 42.1 21.6 64.6





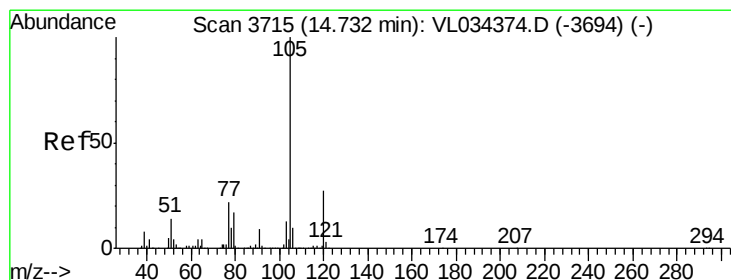
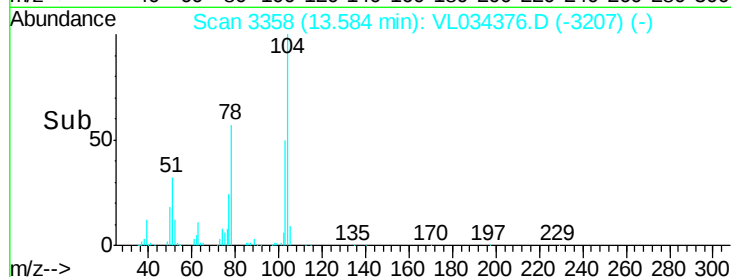
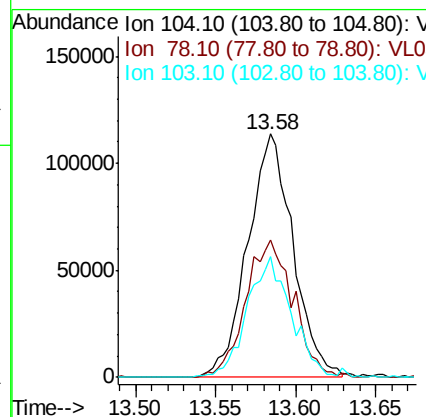
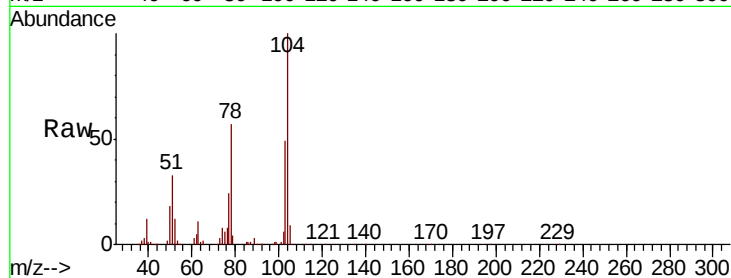
#61
Stvrene
Concen: 1.205 ppbv
RT: 13.58 min Scan# 3358
Delta R.T. -0.02 min
Lab File: VL034376.D
Acq: 19 Nov 2019 11:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
104	100		
78	59.3	47.8	71.8
103	48.7	39.0	58.6

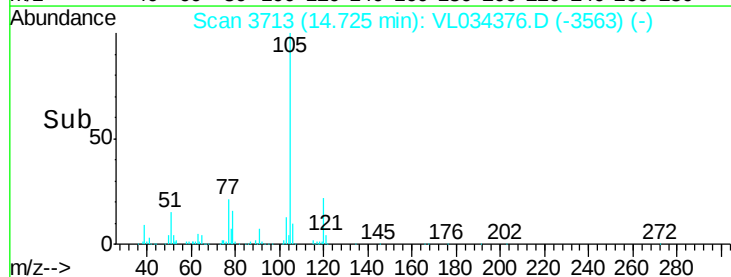
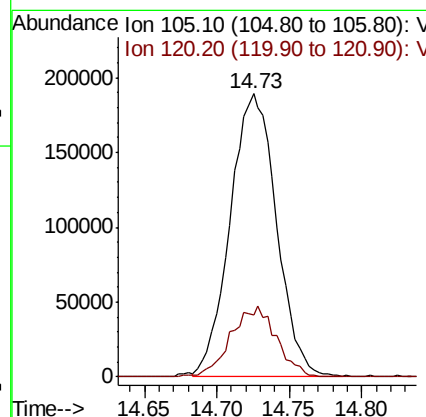
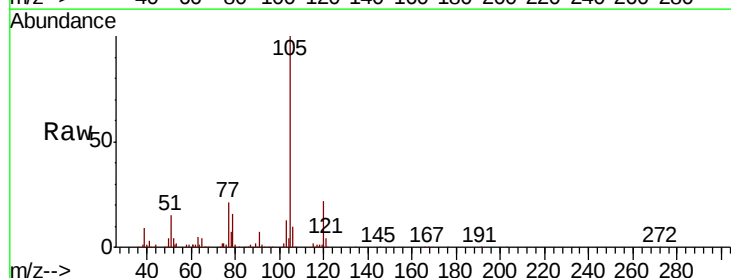
Manual Integrations
APPROVED

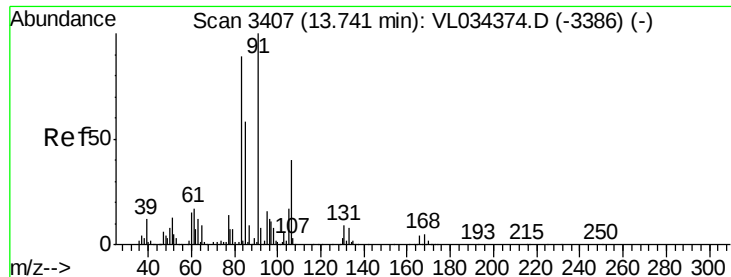
MMDadoda
11/20/2019 3:53:05 PM



#62
Isopropylbenzene
Concen: 1.218 ppbv
RT: 14.73 min Scan# 3713
Delta R.T. -0.02 min
Lab File: VL034376.D
Acq: 19 Nov 2019 11:08

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.6	20.8	31.2





#63

1,1,2,2-Tetrachloroethane

Concen: 1.083 ppbv

RT: 13.74 min Scan# 3406

Delta R.T. -0.02 min

Lab File: VL034376.D

Acq: 19 Nov 2019 11:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 83 Resp: 226496
Ion Ratio Lower Upper

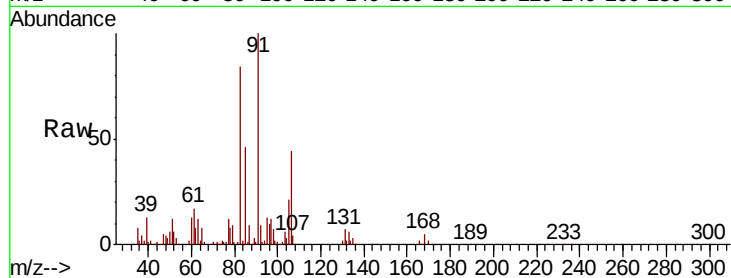
83 100

131 9.5 4.8 14.4

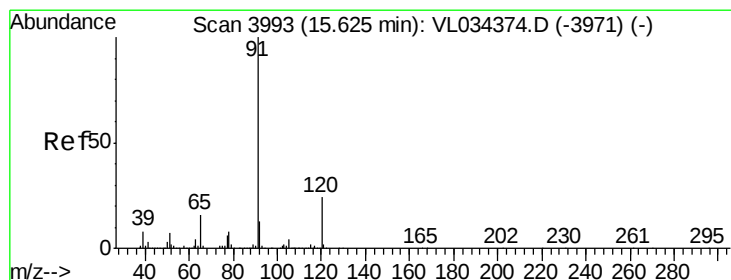
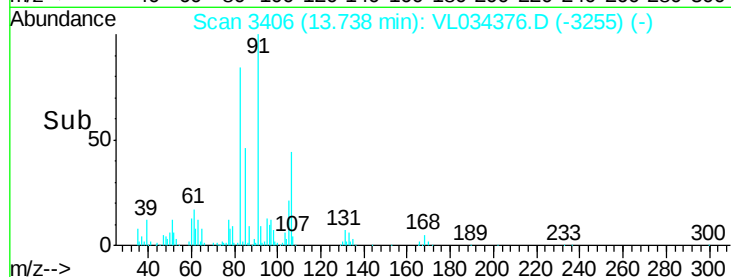
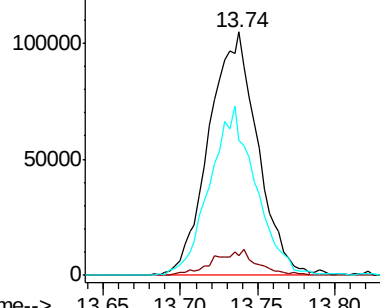
85 66.8 32.5 97.4

Manual Integrations
APPROVED

MMDadoda
11/20/2019 3:53:05 PM



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 131.00 (130.70 to 131.70): VL0
Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 1.190 ppbv

RT: 15.62 min Scan# 3992

Delta R.T. -0.01 min

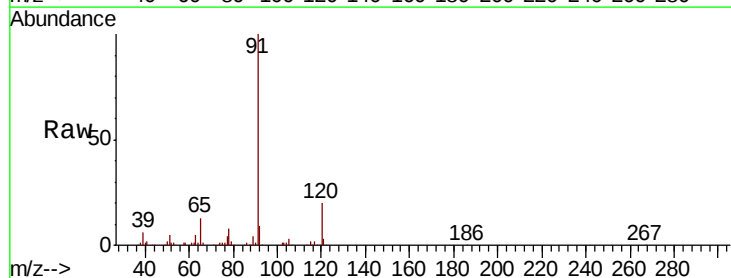
Lab File: VL034376.D

Acq: 19 Nov 2019 11:08

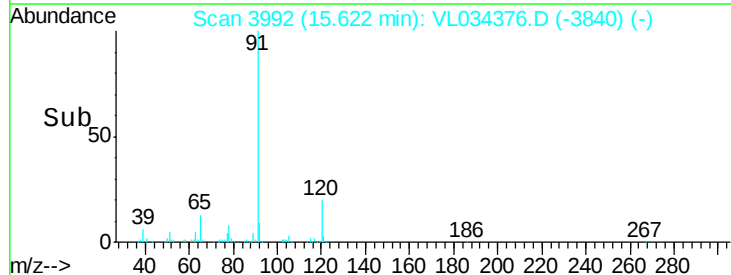
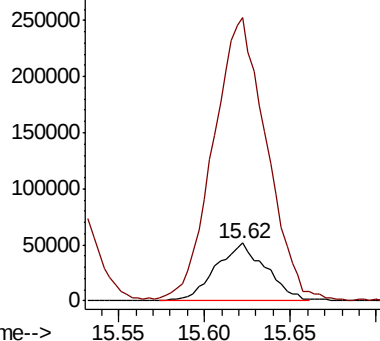
Tgt Ion: 120 Resp: 104879
Ion Ratio Lower Upper

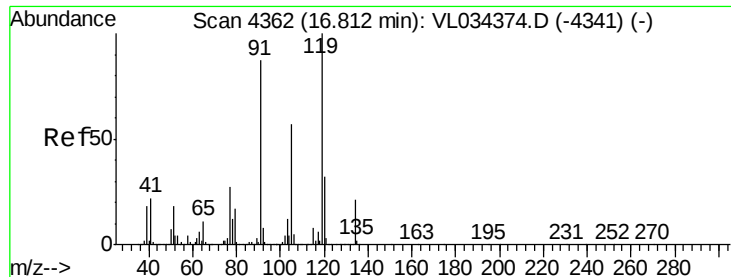
120 100

91 522.6 374.9 562.3



Abundance Ion 120.20 (119.90 to 120.90): VL0
Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 1.248 ppbv

RT: 16.81 min Scan# 4362

Delta R.T. -0.01 min

Lab File: VL034376.D

Acq: 19 Nov 2019 11:08

Instrument :

MSVOA_L

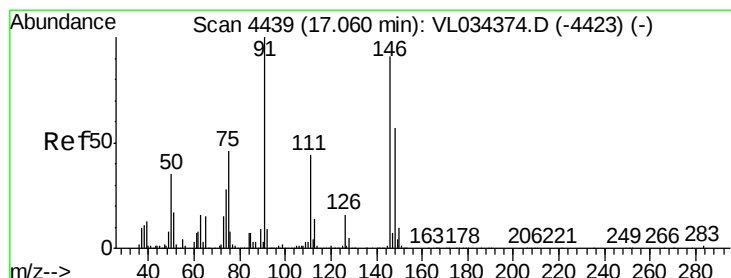
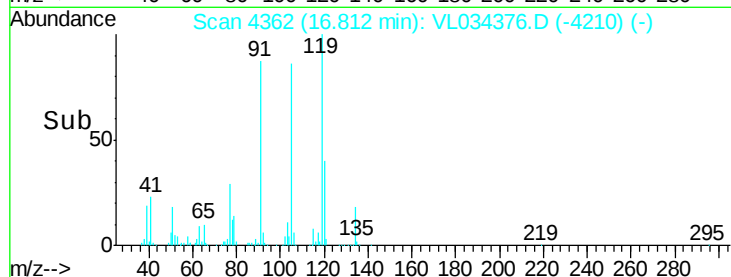
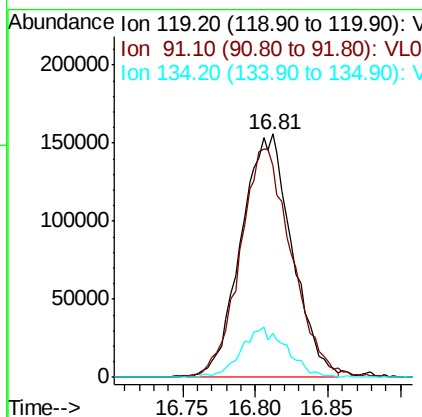
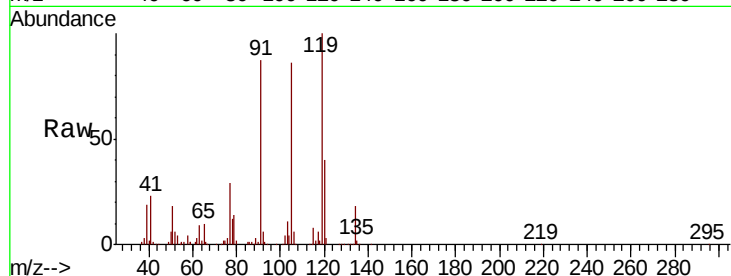
ClientSampleId :

VSTDIC001

Tot Ion:	119	Resp:	380034
Ion Ratio	Lower	Upper	
119	100		
91	95.9	71.4	107.0
134	18.6	15.9	23.9

Manual Integrations
APPROVED

MMDadoda
11/20/2019 3:53:05 PM



#66

Benzyl Chloride

Concen: 0.949 ppbv

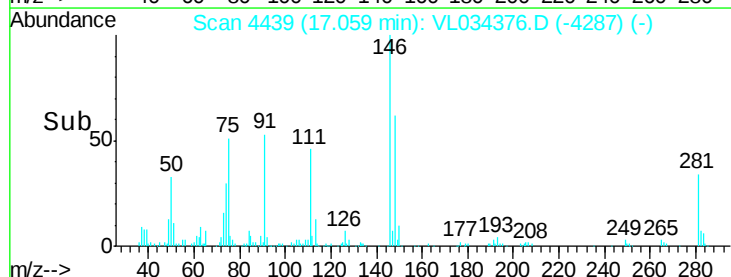
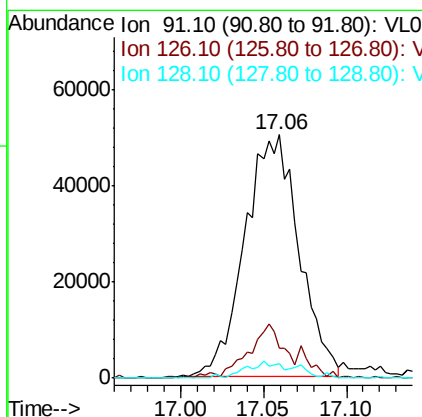
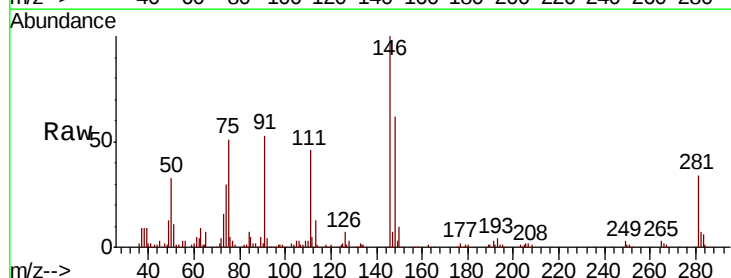
RT: 17.06 min Scan# 4439

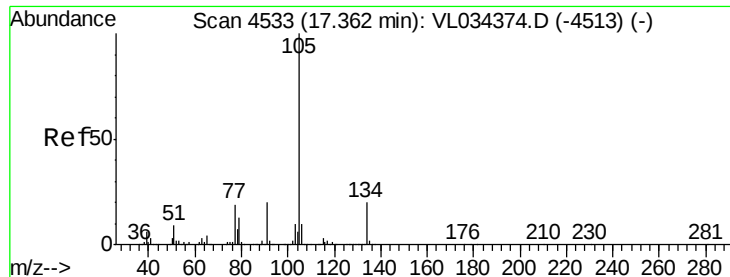
Delta R.T. -0.01 min

Lab File: VL034376.D

Acq: 19 Nov 2019 11:08

Tgt Ion:	91	Resp:	114064
Ion Ratio	Lower	Upper	
91	100		
126	18.2	12.9	19.3
128	6.3	4.3	6.5





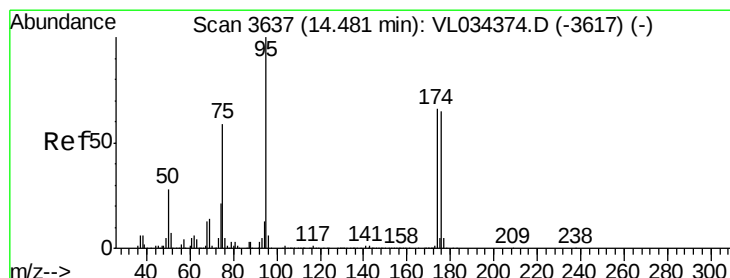
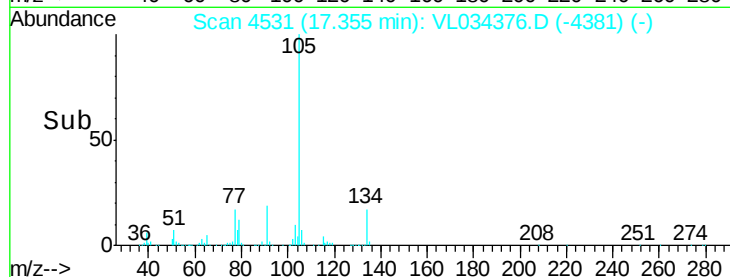
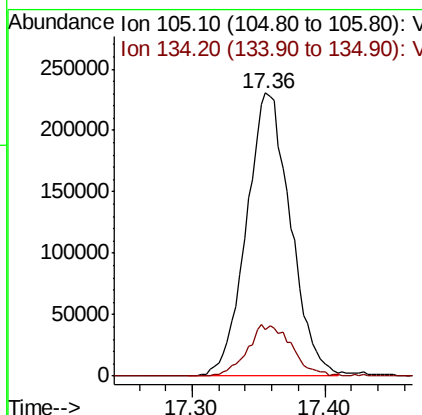
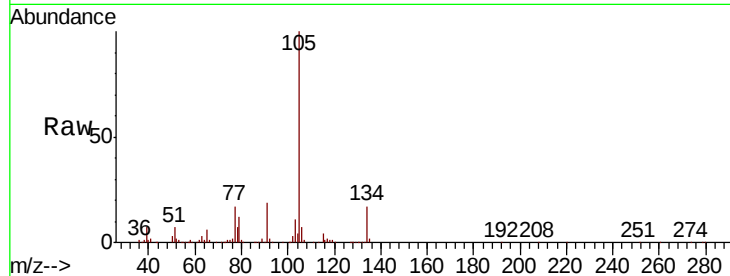
#67
 sec-Butylbenzene
 Concen: 1.239 ppbv
 RT: 17.36 min Scan# 4531
 Delta R.T. -0.02 min
 Lab File: VL034376.D
 Acq: 19 Nov 2019 11:08

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
105	100		
134	18.7	15.4	23.0

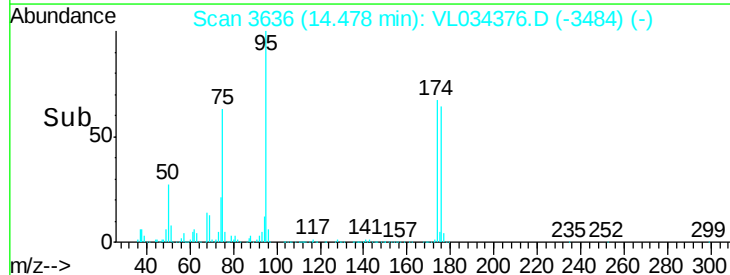
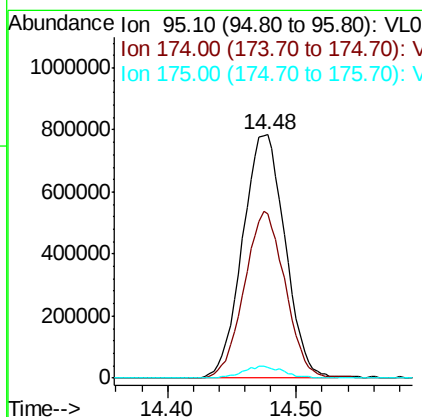
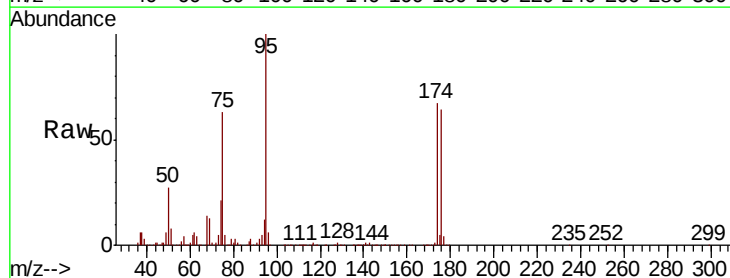
Manual Integrations
 APPROVED

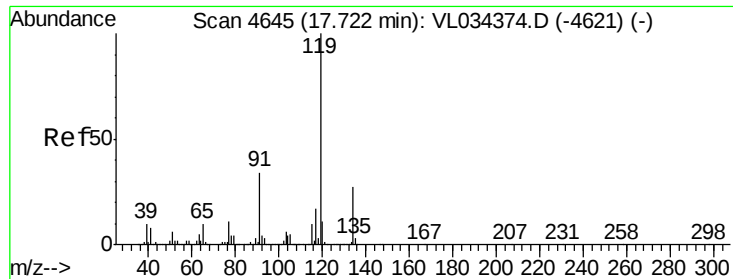
MMDadoda
 11/20/2019 3:53:05 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.875 ppbv
 RT: 14.48 min Scan# 3636
 Delta R.T. -0.01 min
 Lab File: VL034376.D
 Acq: 19 Nov 2019 11:08

Tgt Ion	Ratio	Lower	Upper
95	100		
174	65.9	52.6	78.8
175	4.6	3.8	5.6





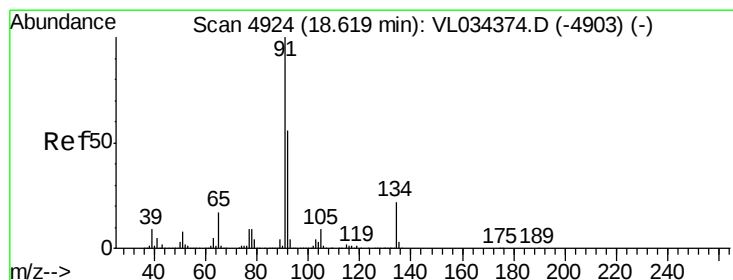
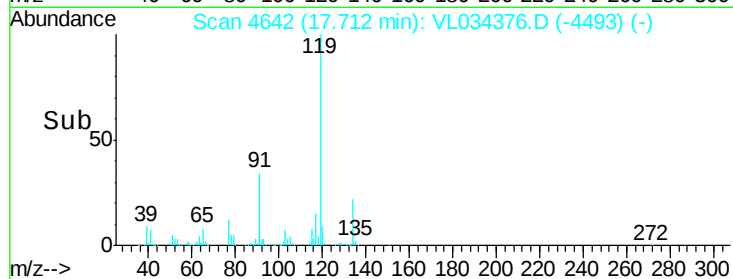
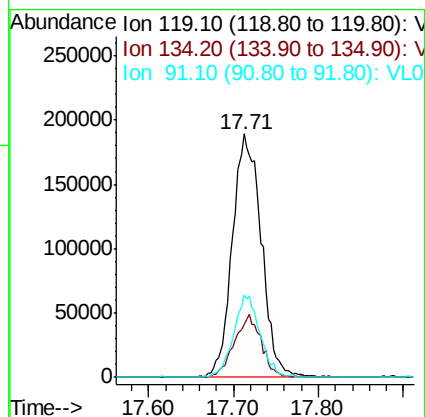
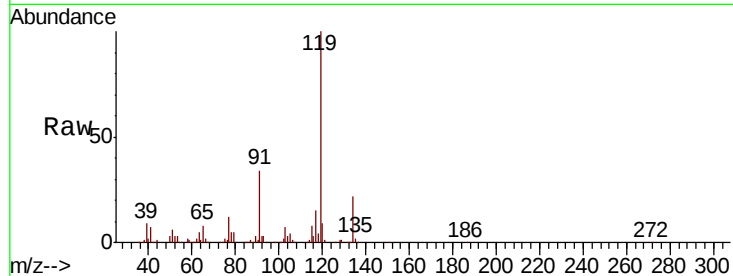
#69
 p-Isopropyltoluene
 Concen: 1.277 ppbv m
 RT: 17.71 min Scan# 4642
 Delta R.T. -0.02 min
 Lab File: VL034376.D
 Acq: 19 Nov 2019 11:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp Lower	Upper
119	100		
134	0.0	21.3	31.9#
91	31.1	26.6	39.8

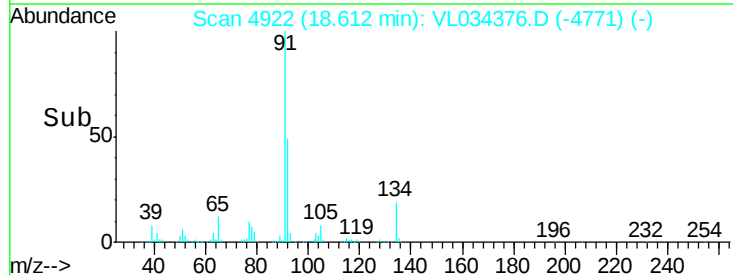
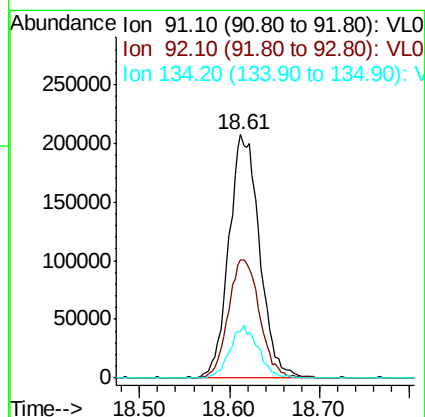
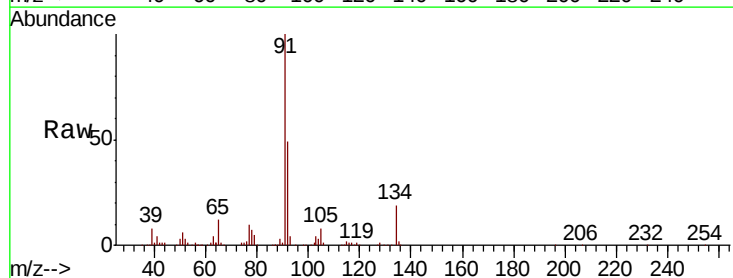
Manual Integrations
 APPROVED

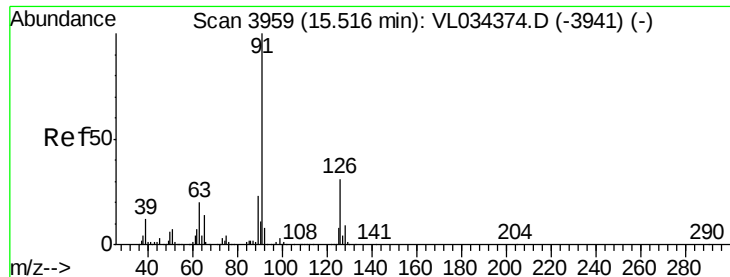
MMDadoda
 11/20/2019 3:53:05 PM



#70
 n-Butylbenzene
 Concen: 1.297 ppbv m
 RT: 18.61 min Scan# 4922
 Delta R.T. -0.02 min
 Lab File: VL034376.D
 Acq: 19 Nov 2019 11:08

Tgt Ion	Ratio	Resp Lower	Upper
91	100		
92	49.7	44.5	66.7
134	19.8	18.2	27.2





#71

2-Chlorotoluene

Concen: 1.277 ppbv

RT: 15.51 min Scan# 3958

Delta R.T. -0.02 min

Lab File: VL034376.D

Acq: 19 Nov 2019 11:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 340058

Ion Ratio Lower Upper

91 100

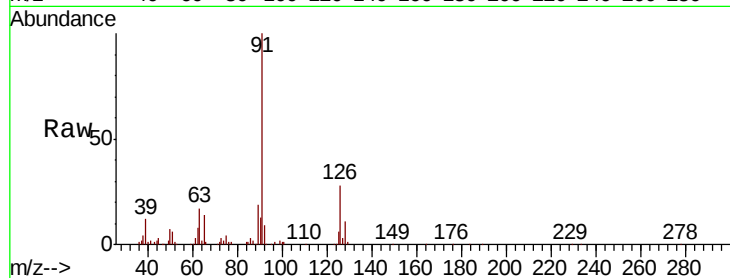
126 28.3 11.9 47.5

Manual Integrations

APPROVED

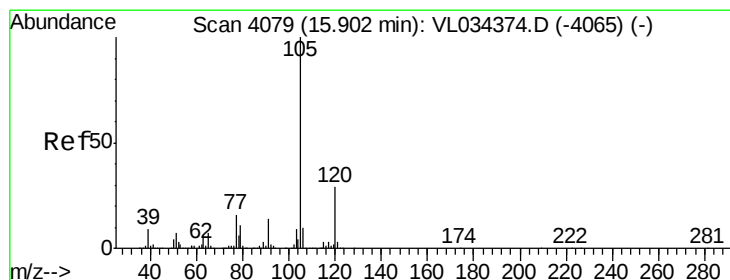
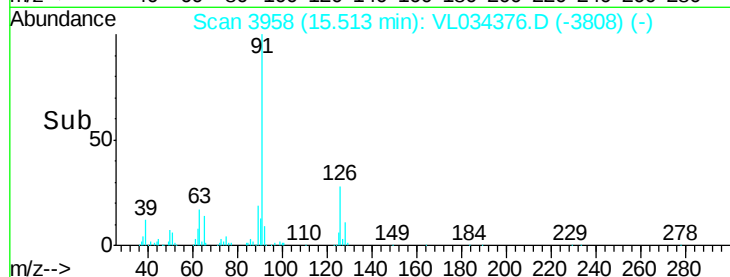
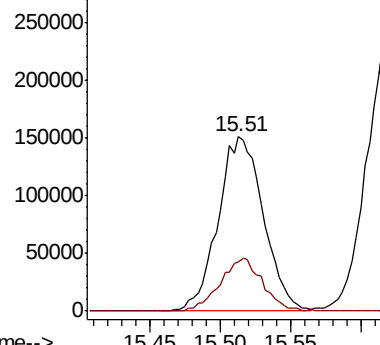
MMDadoda

11/20/2019 3:53:05 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 1.261 ppbv

RT: 15.90 min Scan# 4079

Delta R.T. -0.02 min

Lab File: VL034376.D

Acq: 19 Nov 2019 11:08

Tgt Ion: 105 Resp: 368959

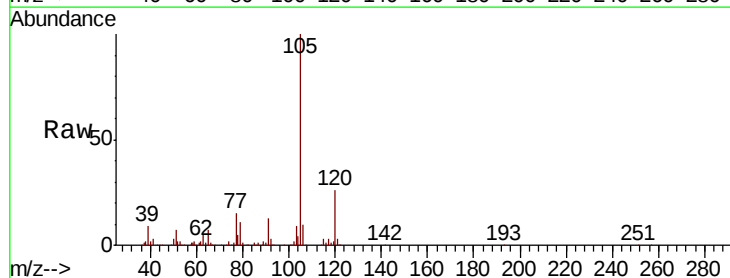
Ion Ratio Lower Upper

105 100

120 26.9 23.8 35.8

91 14.6 11.2 16.8

77 15.7 12.8 19.2

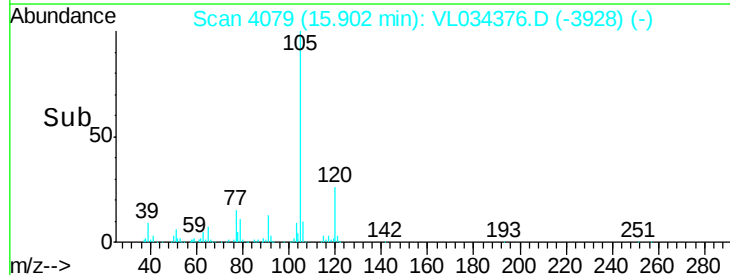
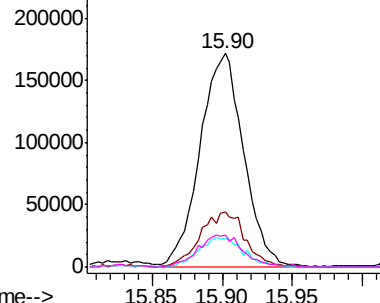


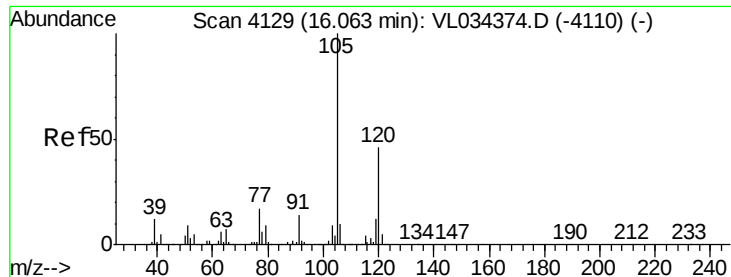
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





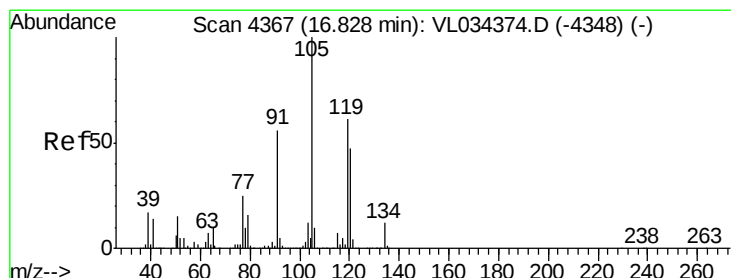
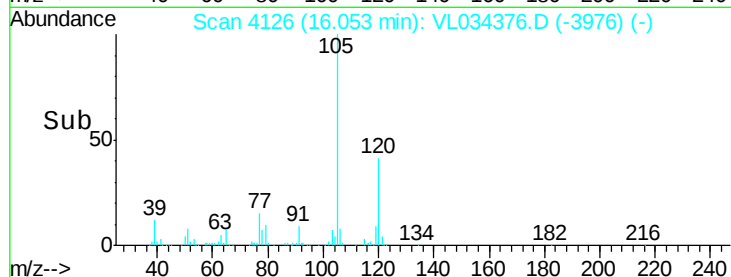
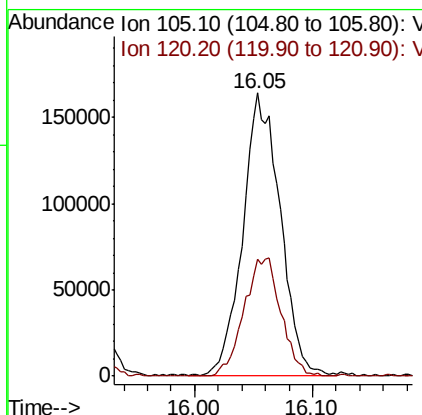
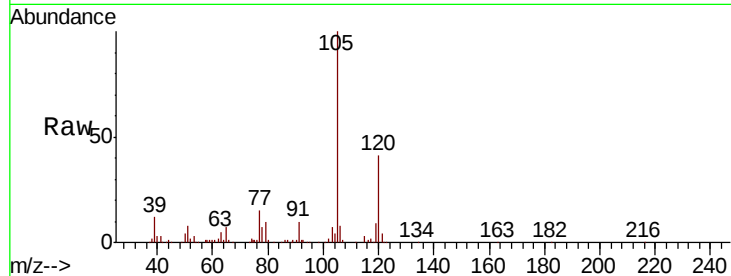
#73
 1,3,5-Trimethylbenzene
 Concen: 1.252 ppbv m
 RT: 16.05 min Scan# 4126
 Delta R.T. -0.02 min
 Lab File: VL034376.D
 Acq: 19 Nov 2019 11:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
105	100		
120	41.5	35.2	52.8

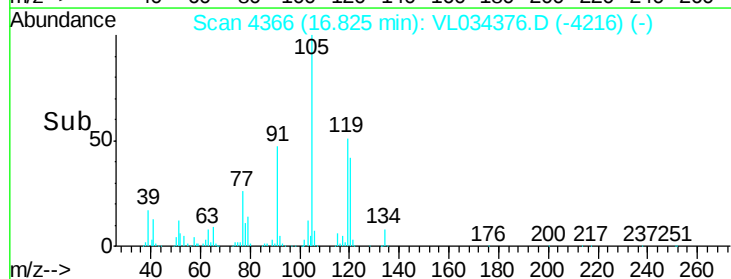
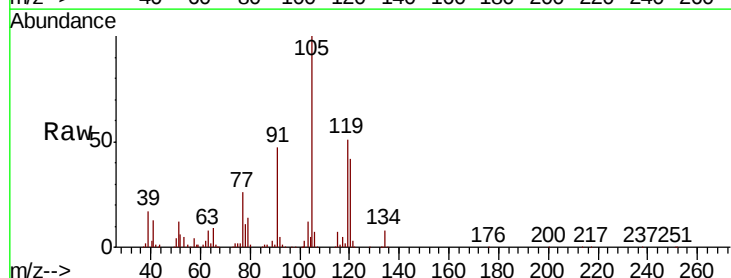
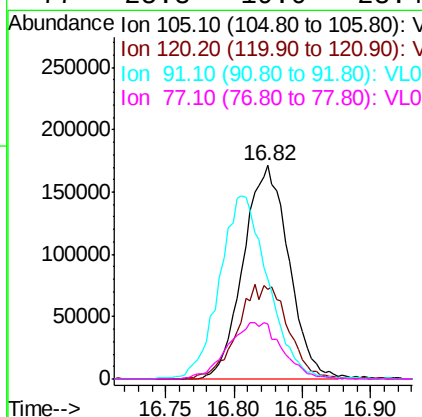
Manual Integrations
 APPROVED

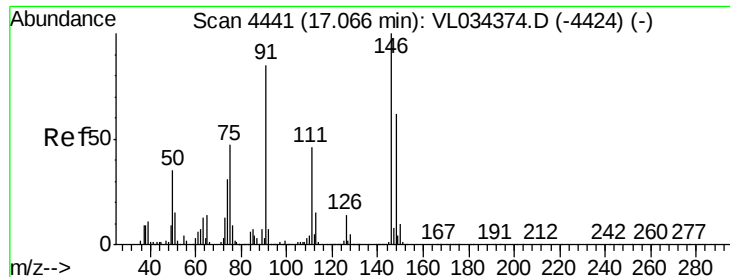
MMDadoda
 11/20/2019 3:53:05 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 1.308 ppbv
 RT: 16.82 min Scan# 4366
 Delta R.T. -0.02 min
 Lab File: VL034376.D
 Acq: 19 Nov 2019 11:08

Tgt Ion	Ratio	Lower	Upper
105	100		
120	41.3	37.0	55.6
91	45.7	38.2	57.2
77	25.8	19.0	28.4





#75

1,3-Dichlorobenzene

Concen: 1.212 ppbv

RT: 17.06 min Scan# 4440

Delta R.T. -0.02 min

Lab File: VL034376.D

Acq: 19 Nov 2019 11:08

Instrument :

MSVOA_L

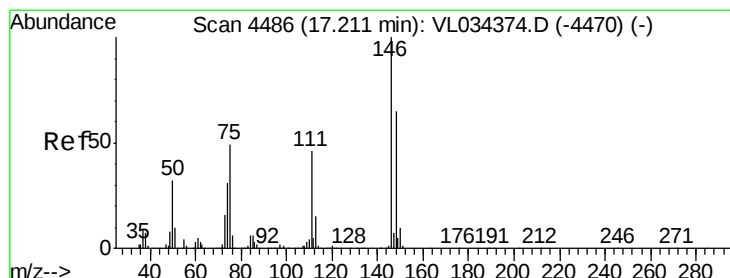
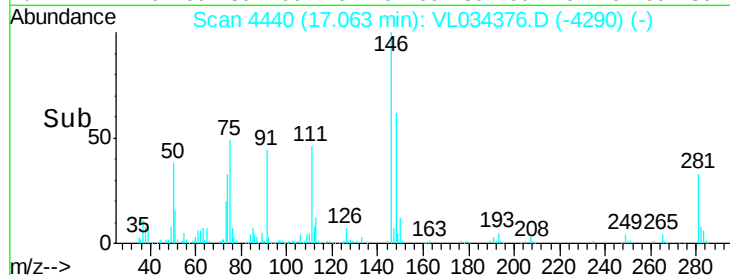
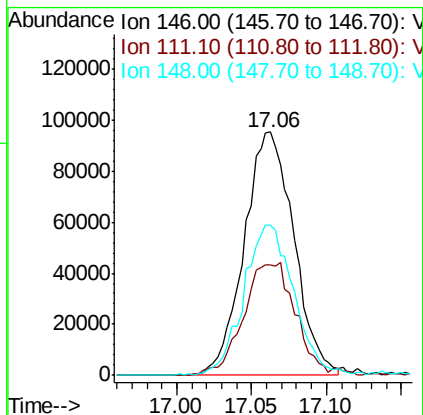
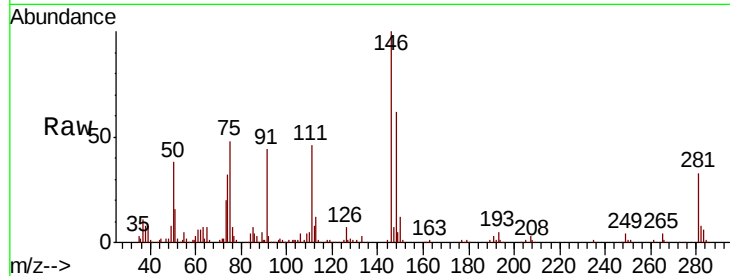
ClientSampleId :

VSTDIC001

Tot Ion:	146	Resp:	219954
Ion Ratio	Lower	Upper	
146	100		
111	49.0	24.5	73.5
148	63.3	32.3	96.8

Manual Integrations
APPROVED

MMDadoda
11/20/2019 3:53:05 PM



#76

1,4-Dichlorobenzene

Concen: 1.203 ppbv

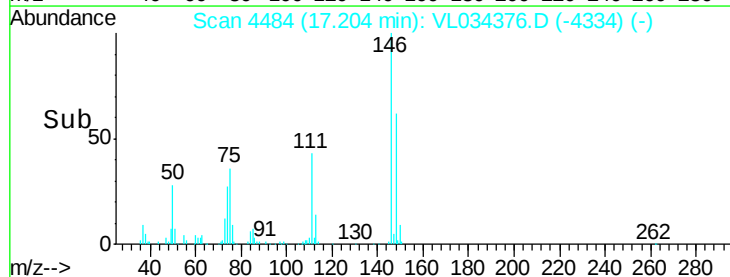
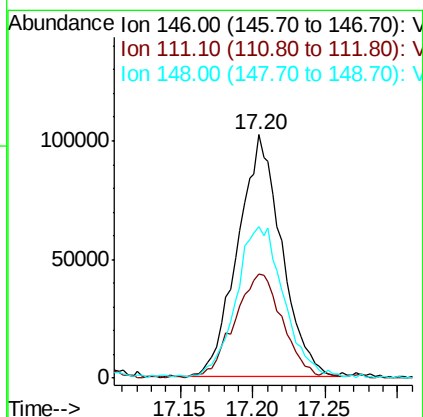
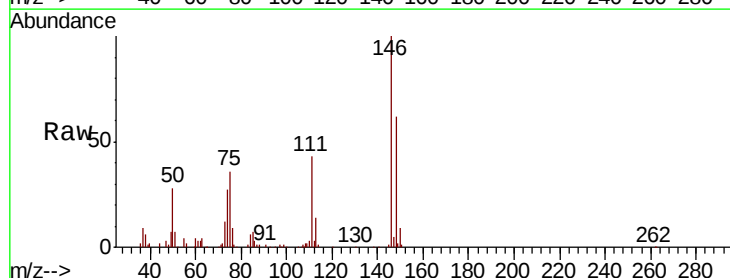
RT: 17.20 min Scan# 4484

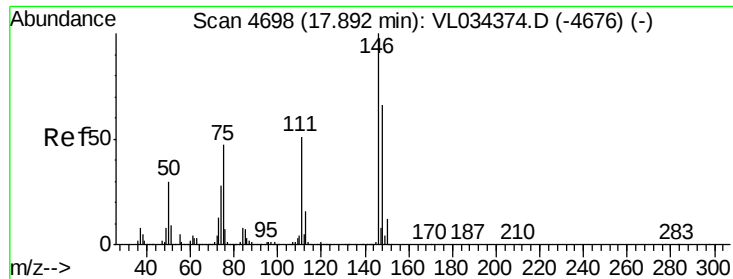
Delta R.T. -0.02 min

Lab File: VL034376.D

Acq: 19 Nov 2019 11:08

Tgt Ion:	146	Resp:	213229
Ion Ratio	Lower	Upper	
146	100		
111	49.0	23.9	71.7
148	68.6	33.1	99.2





#77

1,2-Dichlorobenzene

Concen: 1.201 ppbv

RT: 17.89 min Scan# 4696

Delta R.T. -0.02 min

Lab File: VL034376.D

Acq: 19 Nov 2019 11:08

Instrument :

MSVOA_L

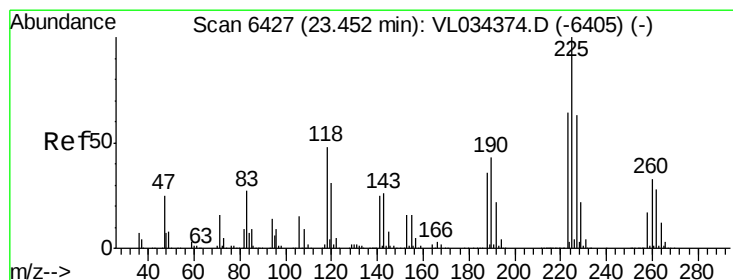
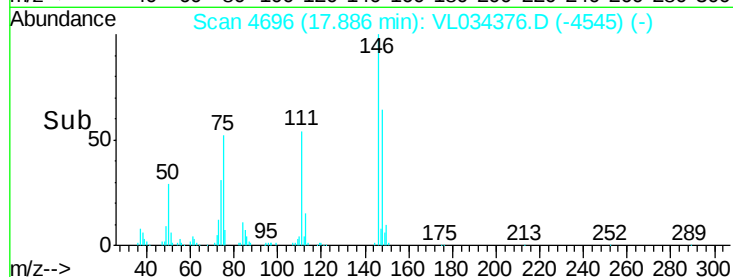
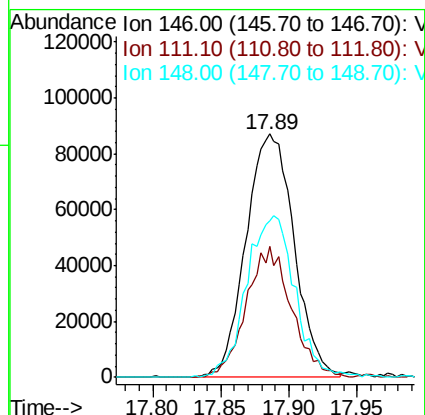
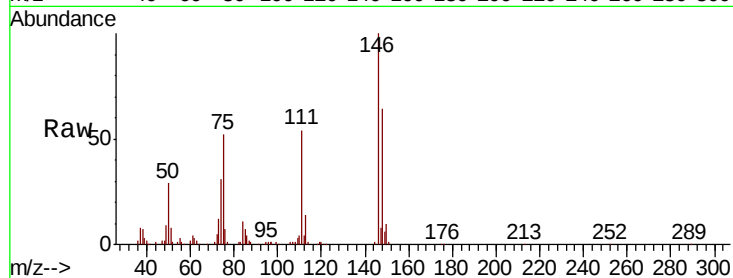
ClientSampleId :

VSTDIC001

Tot Ion:	146	Resp:	213637
Ion Ratio	Lower	Upper	
146	100		
111	50.2	25.1	75.3
148	66.9	32.3	96.8

Manual Integrations
APPROVED

MMDadoda
11/20/2019 3:53:05 PM



#78

Hexachloro-1,3-Butadiene

Concen: 1.226 ppbv

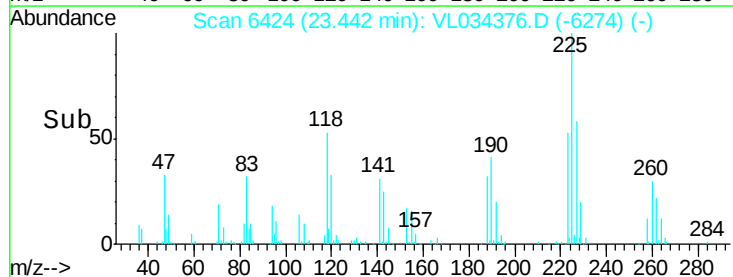
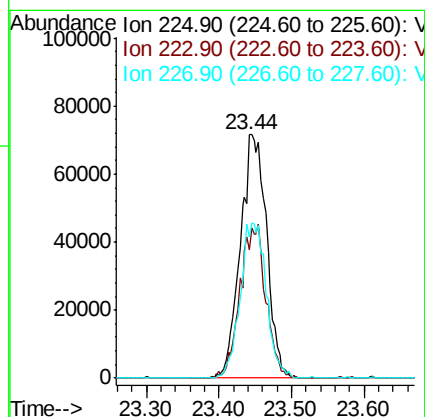
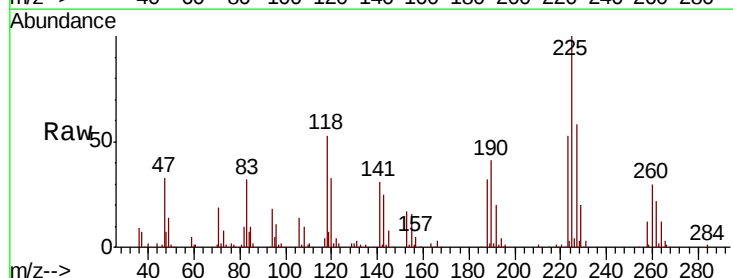
RT: 23.44 min Scan# 6424

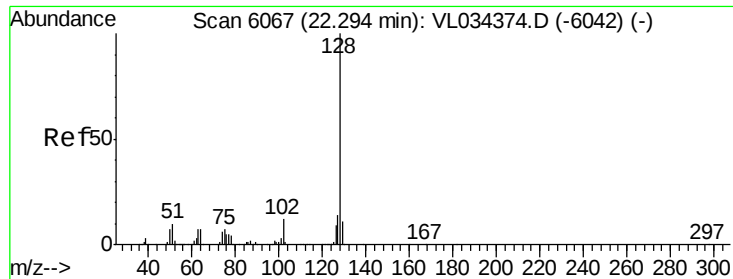
Delta R.T. -0.02 min

Lab File: VL034376.D

Acq: 19 Nov 2019 11:08

Tgt Ion:	225	Resp:	180482
Ion Ratio	Lower	Upper	
225	100		
223	0.0	50.8	76.2#
227	0.0	51.5	77.3#





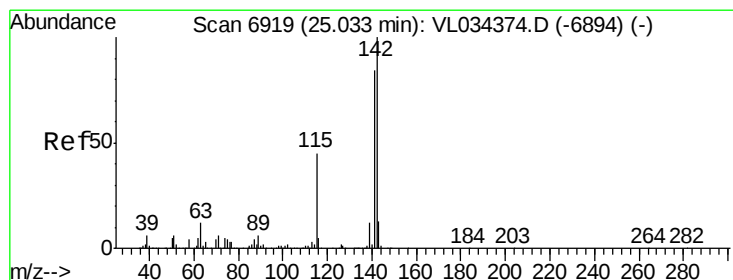
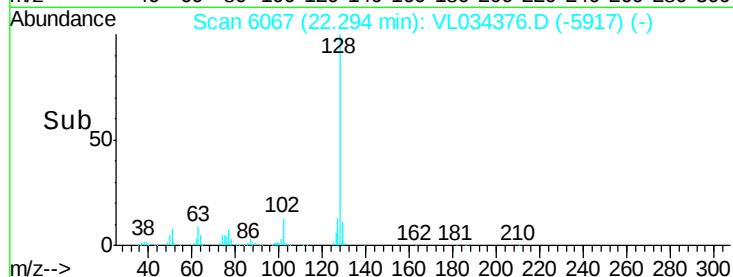
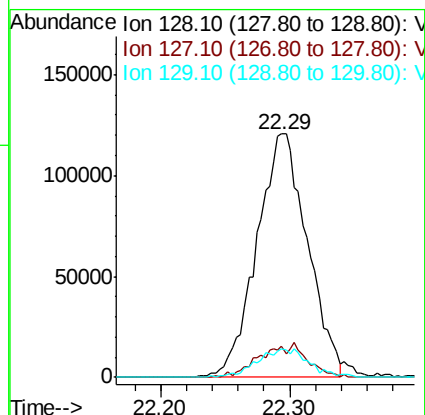
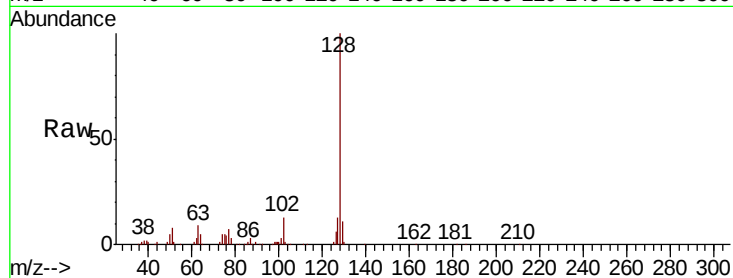
#79
Naphthalene
Concen: 1.486 ppbv
RT: 22.29 min Scan# 6067
Delta R.T. -0.02 min
Lab File: VL034376.D
Acq: 19 Nov 2019 11:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion:	128	Resp:	328185
Ion Ratio		Lower	Upper
128	100		
127	12.8	10.2	15.4
129	11.5	8.9	13.3

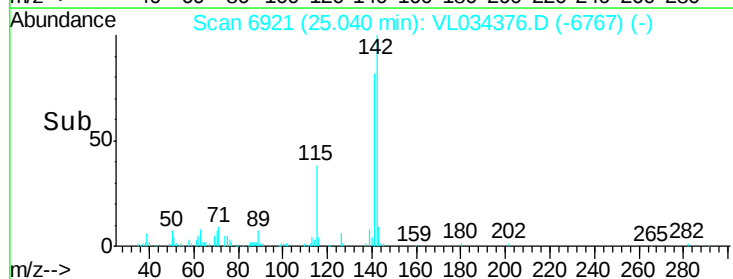
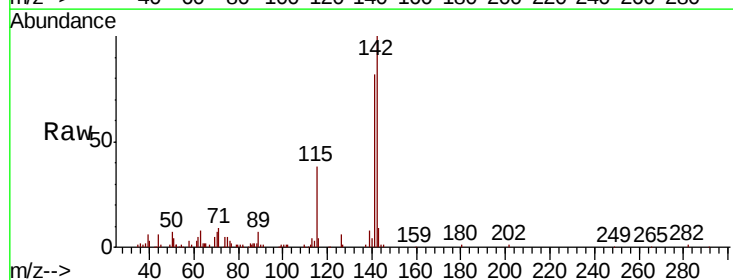
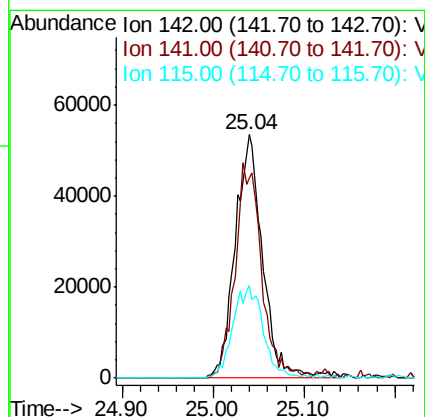
Manual Integrations
APPROVED

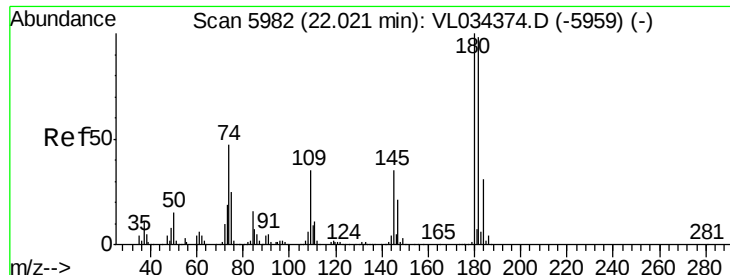
MMDadoda
11/20/2019 3:53:05 PM



#80
Naphthalene, 2-methyl-
Concen: 1.764 ppbv
RT: 25.04 min Scan# 6921
Delta R.T. -0.01 min
Lab File: VL034376.D
Acq: 19 Nov 2019 11:08

Tgt Ion:	142	Resp:	112593
Ion Ratio		Lower	Upper
142	100		
141	85.9	65.7	98.5
115	42.3	30.9	46.3





#81
 1,2,4-Trichlorobenzene
 Concen: 1.404 ppbv m
 RT: 22.02 min Scan# 5983
 Delta R.T. -0.01 min
 Lab File: VL034376.D
 Acq: 19 Nov 2019 11:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.7	77.8	116.8
184	0.0	25.4	38.2

Manual Integrations
 APPROVED

MMDadoda
 11/20/2019 3:53:05 PM

