

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091719\
 Data File : VL034173.D
 Acq On : 17 Sep 2019 6:09
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 9/20/2019 12:44:00 AM

Quant Time: Sep 18 12:53:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep 18 2019
 QLast Update : Tue Sep 17 05:58:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1295474	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.22	114	2156251	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2190184	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.50	95	1926154	10.66	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.04	85	115211	0.561 ppbv	95
3) Chlorodifluoromethane	2.97	51	79679	0.544 ppbv	97
4) Chloromethane	3.13	50	48521	0.538 ppbv #	86
5) Vinyl Chloride	3.25	62	39103	0.475 ppbv #	83
6) Bromomethane	3.47	94	20099	0.501 ppbv	95
7) Chloroethane	3.55	64	15122m	0.538 ppbv	
8) Dichlorotetrafluoroethane	3.18	85	91841	0.536 ppbv	97
9) Propene	3.00	41	37624	0.470 ppbv	98
10) Heptane	8.18	43	98951	0.474 ppbv	99
11) Trichlorofluoromethane	3.95	101	91183	0.523 ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.50	101	60999m	0.526 ppbv	
13) Ethanol	3.61	45	10736m	0.688 ppbv	
14) Bromoethene	3.74	108	22572	0.451 ppbv	90
15) Acetone	3.86	43	101332	0.648 ppbv	99
16) 1,3-Butadiene	3.32	39	36585	0.464 ppbv	96
17) tert-Butyl alcohol	4.32	59	62940	0.558 ppbv	97
18) 1,1-Dichloroethene	4.30	96	25647	0.487 ppbv	87
19) Isopropyl Alcohol	3.98	45	65922	0.630 ppbv #	95
20) Methylene Chloride	4.35	84	28873	0.564 ppbv	100
21) Allyl Chloride	4.43	41	48204	0.470 ppbv	92
22) trans-1,2-Dichloroethene	4.91	96	24509m	0.463 ppbv	
23) Vinyl Acetate	5.10	43	126254	0.480 ppbv #	96
24) 1,1-Dichloroethane	5.03	63	90852m	0.518 ppbv	
25) Ethyl Acetate	5.72	43	180788	0.529 ppbv	99
26) Hexane	5.72	57	71982	0.474 ppbv	91
27) Carbon Disulfide	4.57	76	55692	0.409 ppbv #	87
28) Methyl tert-Butyl Ether	5.07	73	102314	0.465 ppbv	99
29) Chloroform	5.79	83	104065	0.508 ppbv	89
30) Cyclohexane	7.18	84	48347m	0.446 ppbv	
31) cis-1,2-Dichloroethene	5.58	61	71726	0.493 ppbv #	89
32) 1,1,1-Trichloroethane	6.55	97	91311	0.471 ppbv	97
34) 2-Butanone	5.28	43	116324	0.552 ppbv	99
35) Carbon Tetrachloride	7.07	117	86649	0.509 ppbv	89
36) Benzene	6.93	78	128298	0.521 ppbv	95
37) 1,2-Dichloroethane	6.35	62	87184	0.559 ppbv	98
38) Trichloroethene	7.89	130	42302	0.458 ppbv #	80
39) 1,2-Dichloropropane	7.67	63	56596m	0.532 ppbv	
40) 1,4-Dioxane	7.92	88	18520m	0.480 ppbv	
41) Tetrahydrofuran	6.10	42	58649m	0.467 ppbv	
42) Bromodichloromethane	7.84	83	102542m	0.514 ppbv	
43) Methyl Methacrylate	8.07	69	48428m	0.476 ppbv	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091719\
 Data File : VL034173.D
 Acq On : 17 Sep 2019 6:09
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

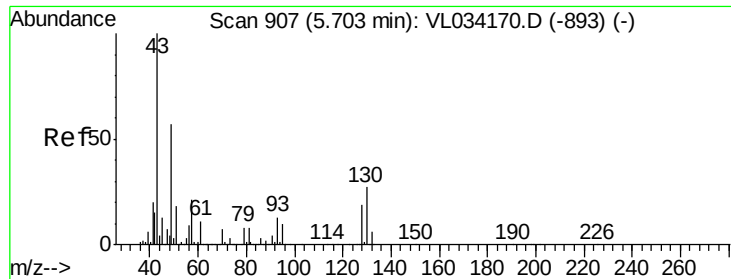
MMDadoda
 9/20/2019 12:44:00 AM

Quant Time: Sep 18 12:53:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep 18 2019
 QLast Update : Tue Sep 17 05:58:04 2019
 Response via : Initial Calibration

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

44) 2,2,4-Trimethylpentane	7.92	57	256683m	0.559	ppbv	
45) t-1,3-Dichloropropene	9.35	75	46056m	0.383	ppbv	
46) cis-1,3-Dichloropropene	8.77	75	61636	0.422	ppbv	87
47) 1,1,2-Trichloroethane	9.54	97	52819m	0.548	ppbv	
48) Dibromochloromethane	10.37	129	75810m	0.520	ppbv	
49) Bromoform	13.12	173	56577m	0.447	ppbv	
50) 4-Methyl-2-Pentanone	8.82	43	166555	0.519	ppbv	91
51) 2-Hexanone	10.21	43	123269	0.445	ppbv #	100
52) Tetrachloroethene	11.29	164	42480m	0.490	ppbv	
53) Toluene	9.87	91	133901	0.491	ppbv	94
54) 1,2-Dibromoethane	10.68	107	72312m	0.502	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.21	131	51563m	0.543	ppbv	
57) Chlorobenzene	12.22	112	111958	0.592	ppbv	95
58) Ethyl Benzene	12.79	91	194630	0.541	ppbv	91
59) m/p-Xylene	13.08	91	321403m	1.095	ppbv	
60) o-Xylene	13.78	91	160286	0.547	ppbv	100
61) Styrene	13.61	104	105336	0.484	ppbv	99
62) Isopropylbenzene	14.75	105	211100	0.554	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.76	83	125423	0.525	ppbv	100
64) n-propylbenzene	15.65	120	51310m	0.537	ppbv	
65) tert-Butylbenzene	16.84	119	181781m	0.552	ppbv	
66) Benzyl Chloride	17.08	91	41374m	0.347	ppbv	
67) sec-Butylbenzene	17.38	105	258877m	0.545	ppbv	
69) p-Isopropyltoluene	17.74	119	208108m	0.548	ppbv	
70) n-Butylbenzene	18.64	91	246767	0.568	ppbv	94
71) 2-Chlorotoluene	15.54	91	165718	0.532	ppbv	100
72) 4-Ethyltoluene	15.93	105	179762m	0.543	ppbv	
73) 1,3,5-Trimethylbenzene	16.09	105	170296	0.530	ppbv	94
74) 1,2,4-Trimethylbenzene	16.85	105	194674m	0.586	ppbv	
75) 1,3-Dichlorobenzene	17.09	146	101215m	0.575	ppbv	
76) 1,4-Dichlorobenzene	17.23	146	104388m	0.567	ppbv	
77) 1,2-Dichlorobenzene	17.91	146	105613m	0.587	ppbv	
78) Hexachloro-1,3-Butadiene	23.46	225	70325m	0.579	ppbv	
79) Naphthalene	22.32	128	151710m	0.511	ppbv	
80) Naphthalene, 2-methyl-	25.05	142	74812	0.743	ppbv	97
81) 1,2,4-Trichlorobenzene	22.04	180	90926m	0.560	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 905

Delta R.T. -0.01 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 49 Resp: 1295474

Ion Ratio Lower Upper

49 100

128 35.2 17.6 52.9

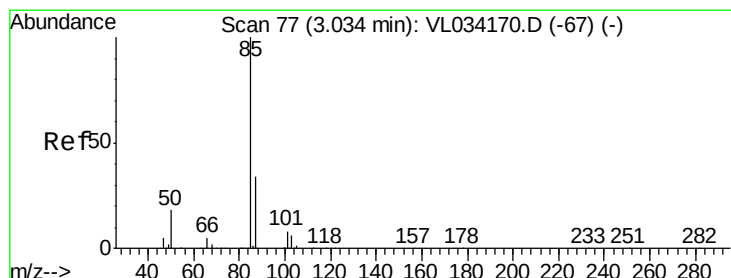
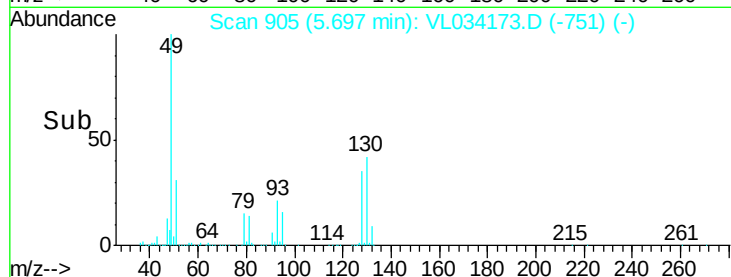
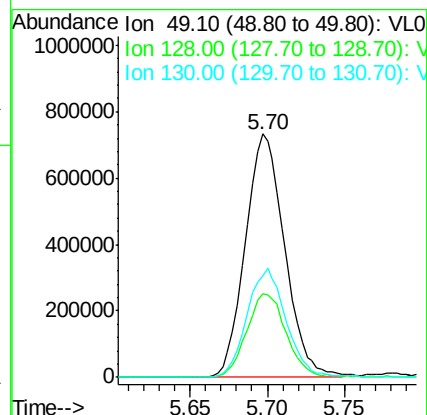
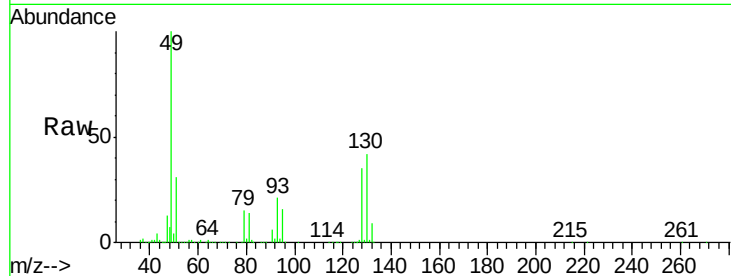
130 44.9 22.3 66.9

Manual Integrations

APPROVED

MMDadoda

9/20/2019 12:44:00 AM



#2

Dichlorodifluoromethane

Concen: 0.561 ppbv

RT: 3.04 min Scan# 78

Delta R.T. 0.00 min

Lab File: VL034173.D

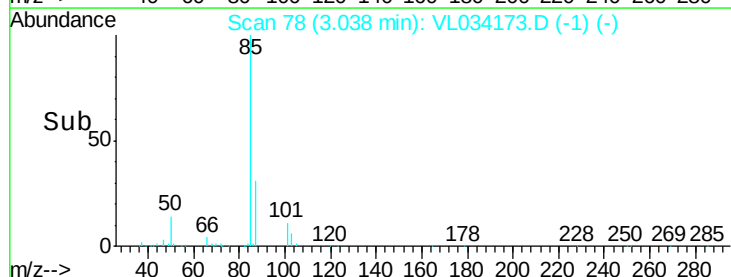
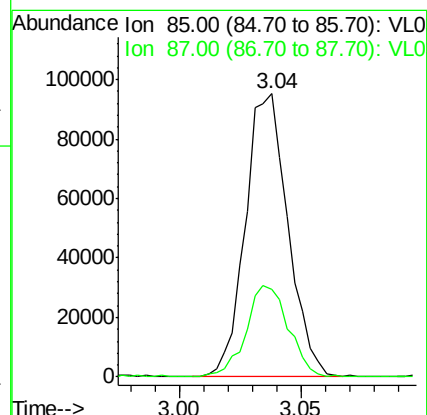
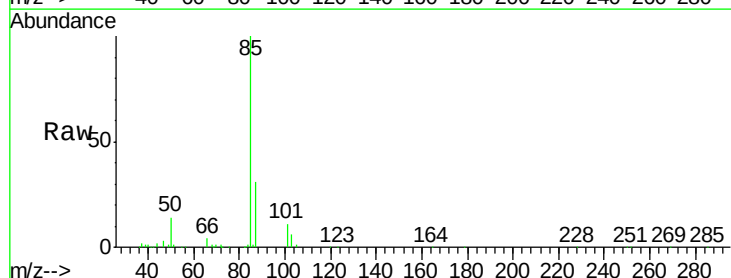
Acq: 17 Sep 2019 6:09

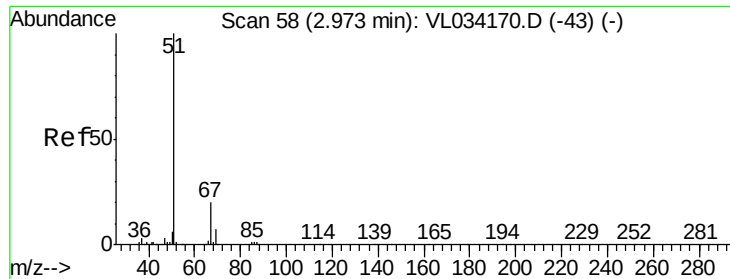
Tgt Ion: 85 Resp: 115211

Ion Ratio Lower Upper

85 100

87 31.1 27.2 40.8





#3

Chlorodifluoromethane

Concen: 0.544 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 51 Resp: 79679

Ion Ratio Lower Upper

51 100

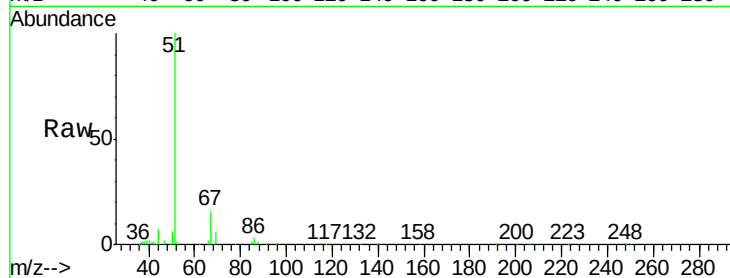
67 17.0 14.8 22.2

Manual Integrations

APPROVED

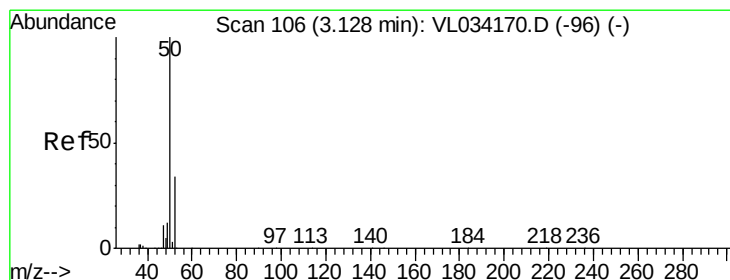
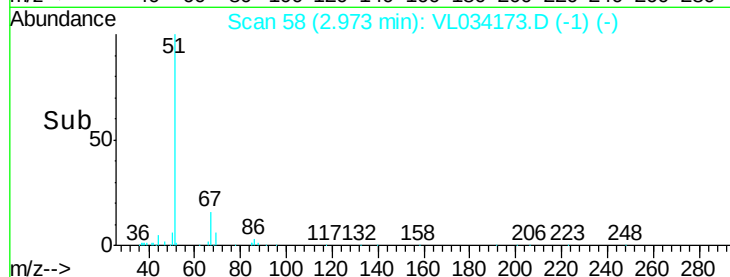
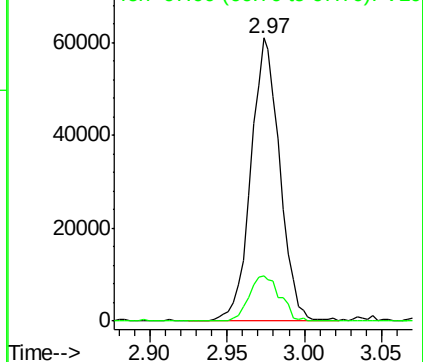
MMDadoda

9/20/2019 12:44:00 AM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.538 ppbv

RT: 3.13 min Scan# 106

Delta R.T. 0.00 min

Lab File: VL034173.D

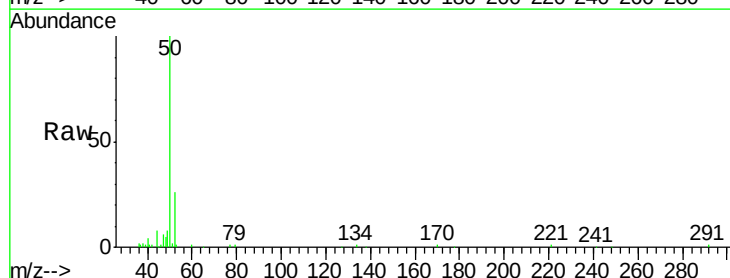
Acq: 17 Sep 2019 6:09

Tgt Ion: 50 Resp: 48521

Ion Ratio Lower Upper

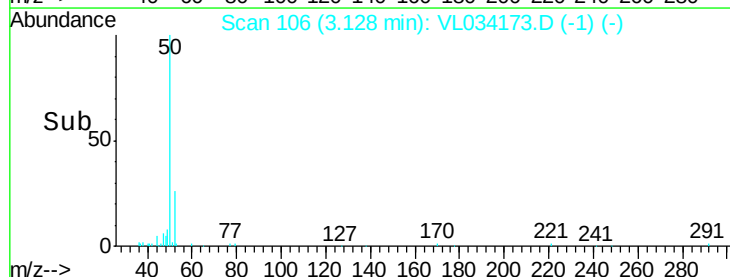
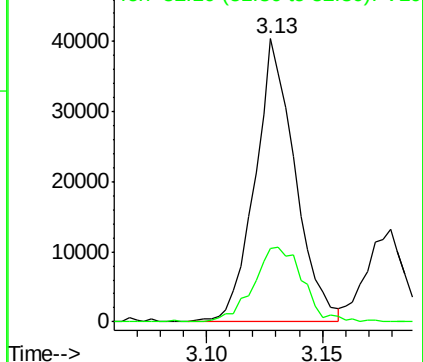
50 100

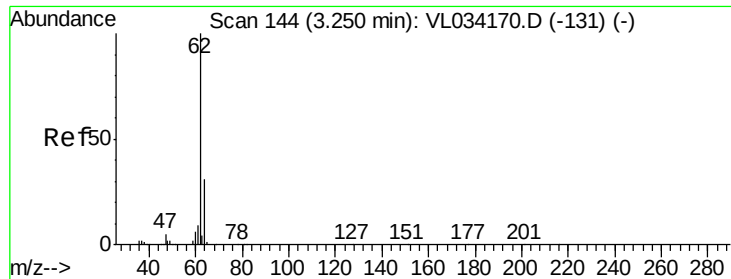
52 26.2 27.1 40.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.475 ppbv

RT: 3.25 min Scan# 144

Delta R.T. 0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 39103

Ion Ratio Lower Upper

62 100

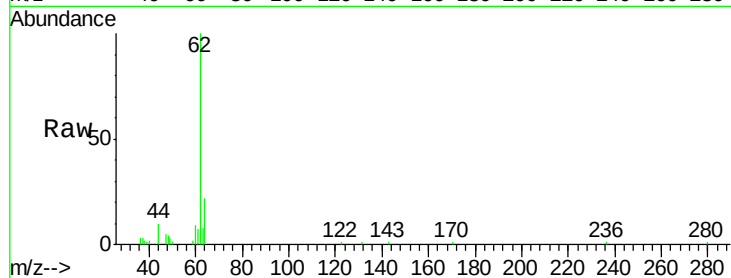
64 22.0 25.2 37.8#

Manual Integrations

APPROVED

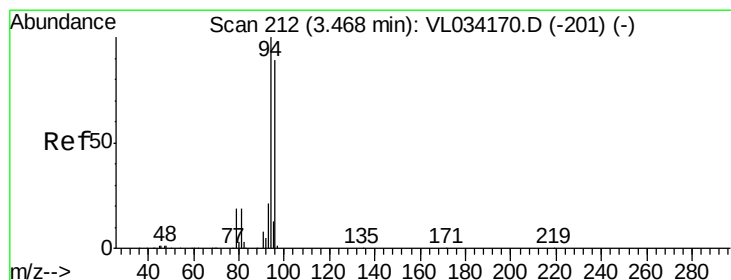
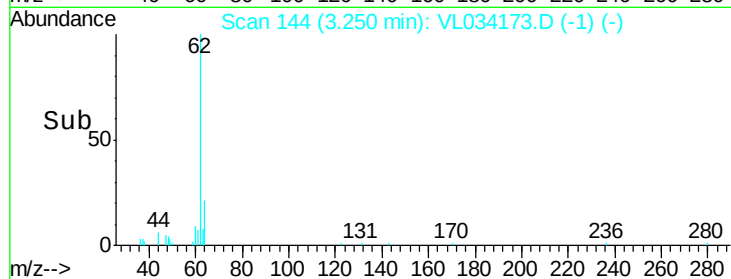
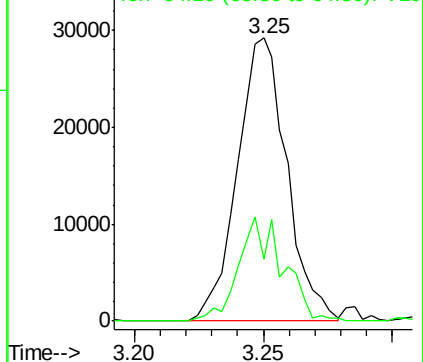
MMDadoda

9/20/2019 12:44:00 AM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.501 ppbv

RT: 3.47 min Scan# 213

Delta R.T. 0.00 min

Lab File: VL034173.D

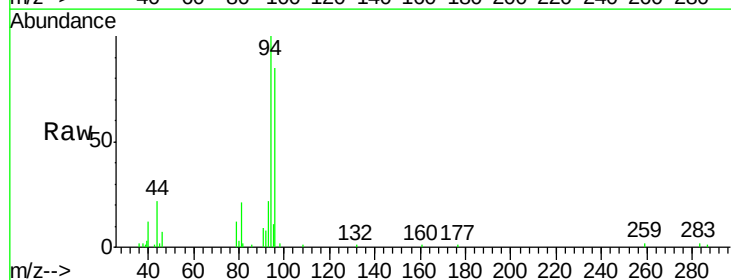
Acq: 17 Sep 2019 6:09

Tgt Ion: 94 Resp: 20099

Ion Ratio Lower Upper

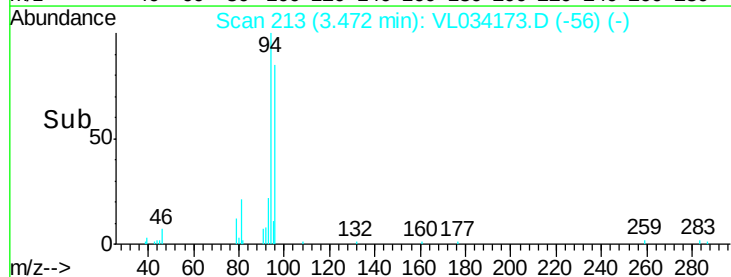
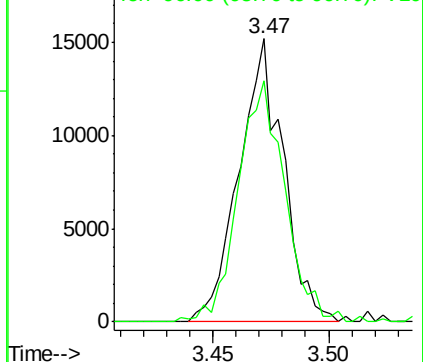
94 100

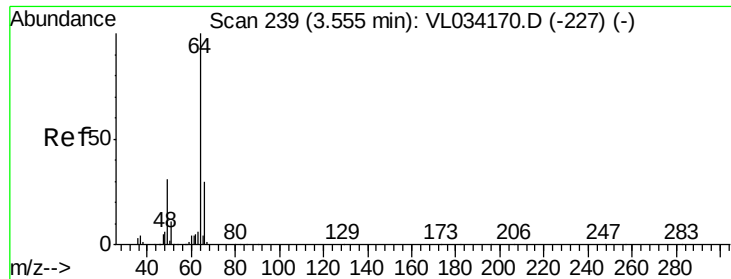
96 84.1 71.3 106.9



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.538 ppbv m

RT: 3.55 min Scan# 238

Delta R.T. -0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 64 Resp: 15122

Ion Ratio Lower Upper

64 100

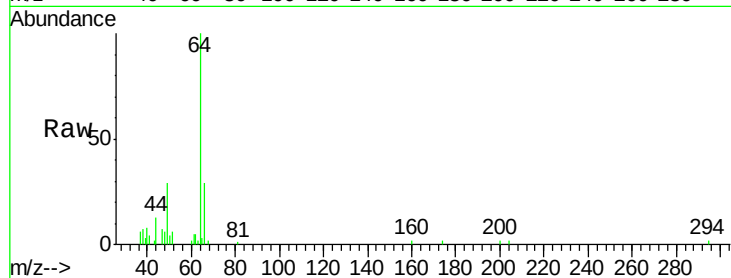
66 28.7 24.2 36.4

Manual Integrations

APPROVED

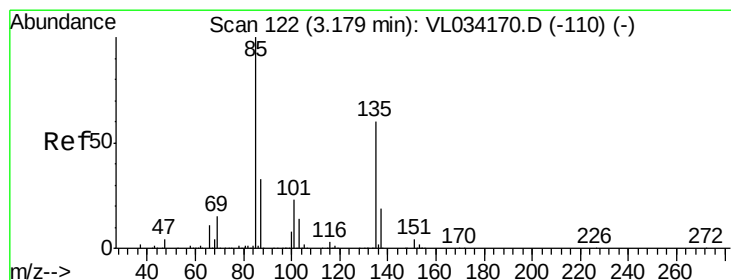
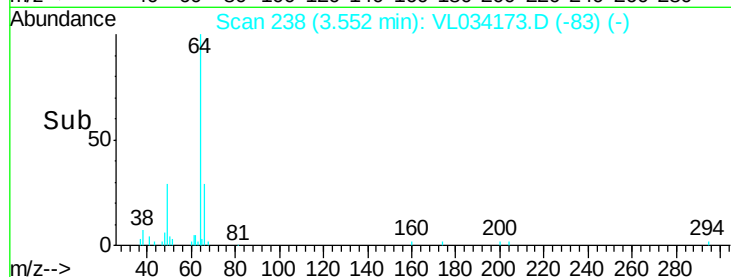
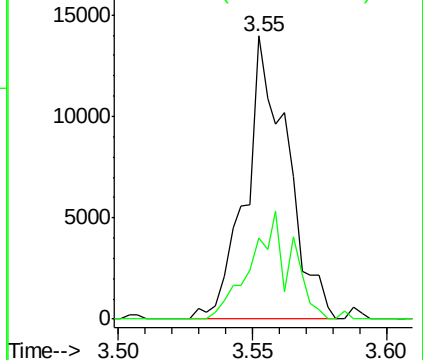
MMDadoda

9/20/2019 12:44:00 AM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.536 ppbv

RT: 3.18 min Scan# 121

Delta R.T. -0.00 min

Lab File: VL034173.D

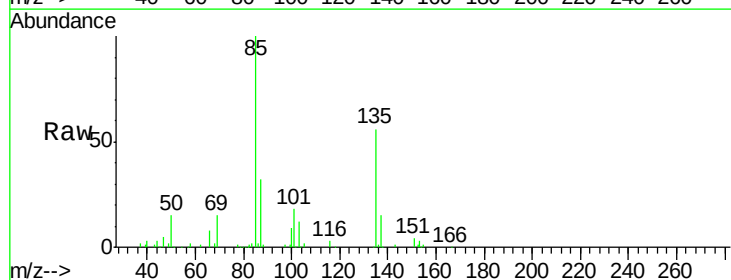
Acq: 17 Sep 2019 6:09

Tgt Ion: 85 Resp: 91841

Ion Ratio Lower Upper

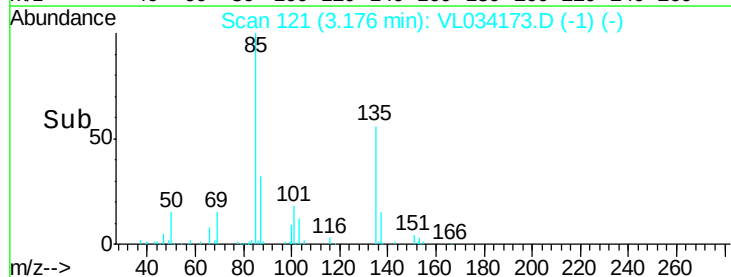
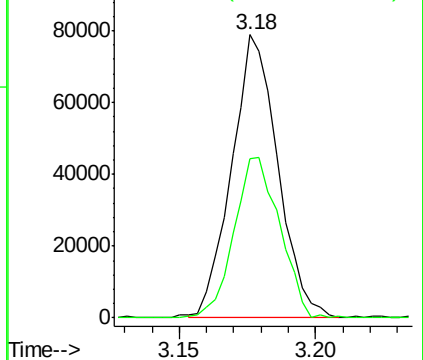
85 100

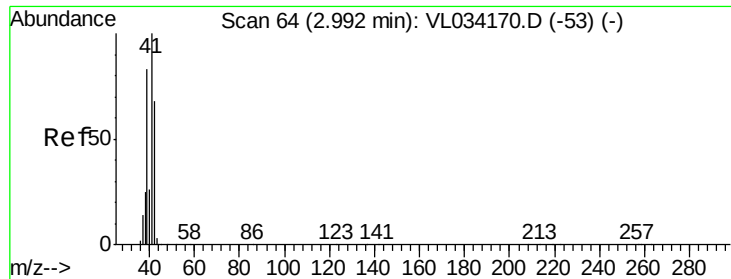
135 56.6 47.3 70.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.470 ppbv

RT: 3.00 min Scan# 65

Delta R.T. 0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 41 Resp: 37624

Ion Ratio Lower Upper

41 100

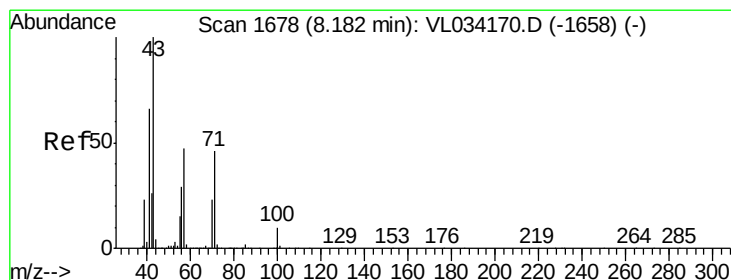
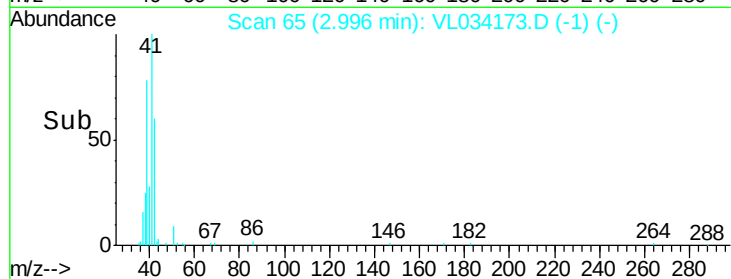
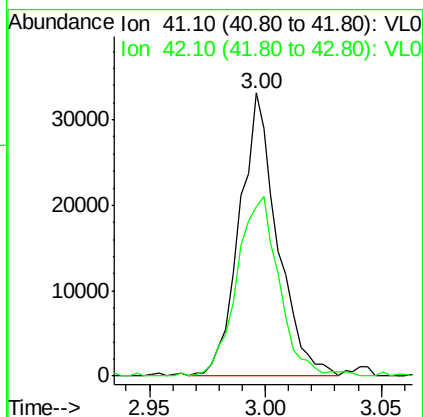
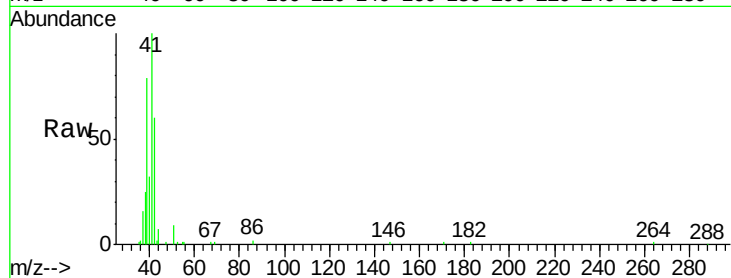
42 71.1 55.8 83.6

Manual Integrations

APPROVED

MMDadoda

9/20/2019 12:44:00 AM



#10

Heptane

Concen: 0.474 ppbv

RT: 8.18 min Scan# 1676

Delta R.T. -0.01 min

Lab File: VL034173.D

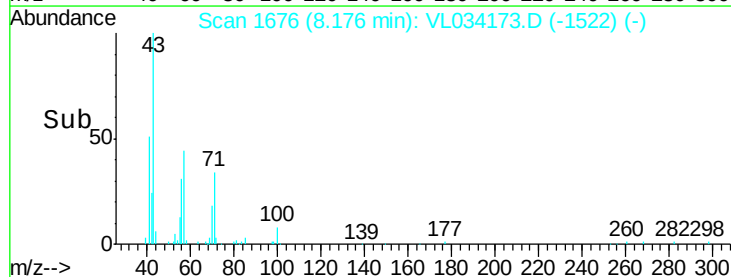
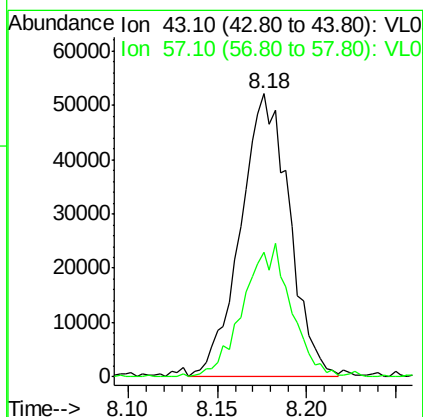
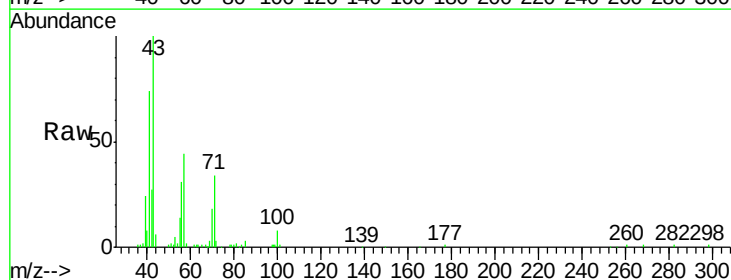
Acq: 17 Sep 2019 6:09

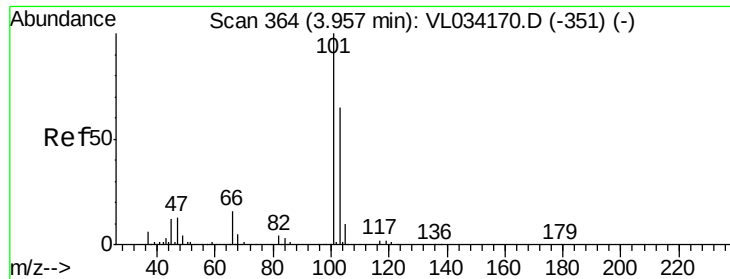
Tgt Ion: 43 Resp: 98951

Ion Ratio Lower Upper

43 100

57 46.6 37.5 56.3





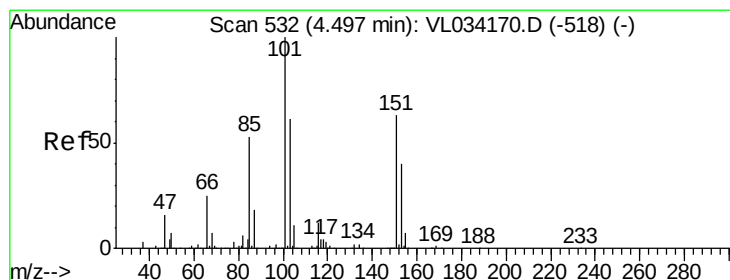
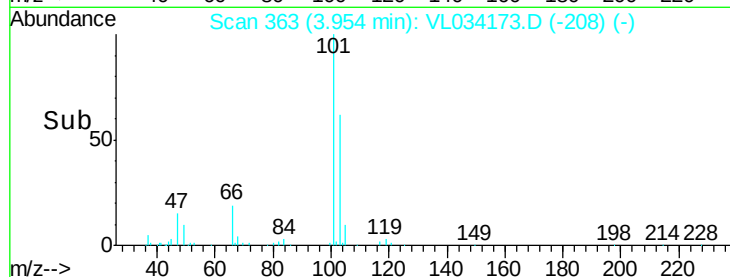
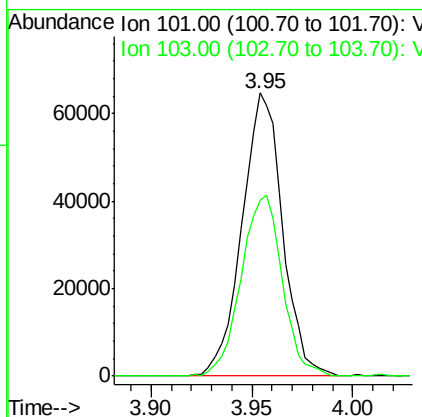
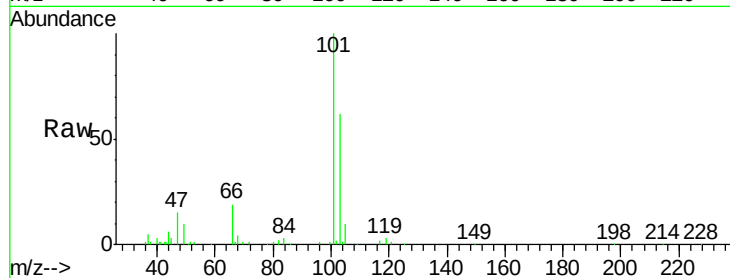
#11
 Trichlorofluoromethane
 Concen: 0.523 ppbv
 RT: 3.95 min Scan# 363
 Delta R.T. -0.00 min
 Lab File: VL034173.D
 Acq: 17 Sep 2019 6:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
101	100		
103	62.0	52.1	78.1

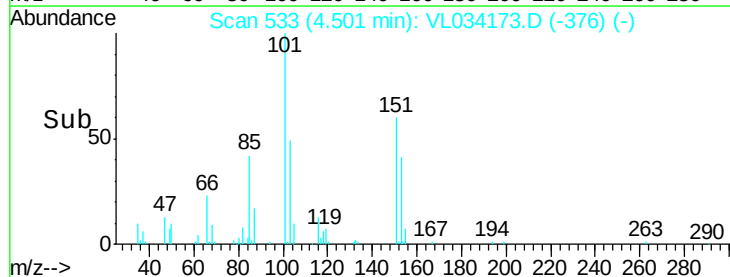
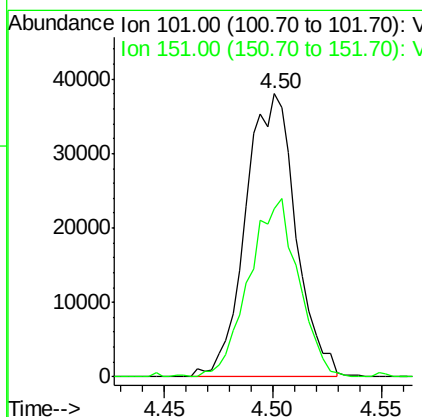
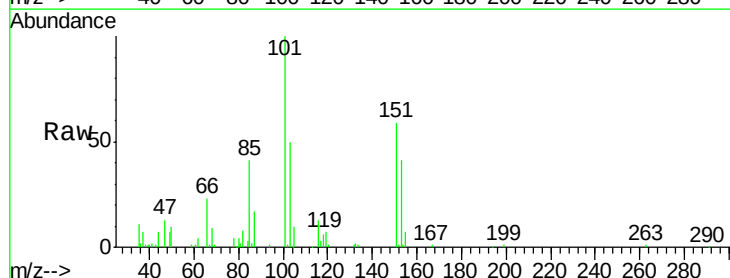
Manual Integrations
 APPROVED

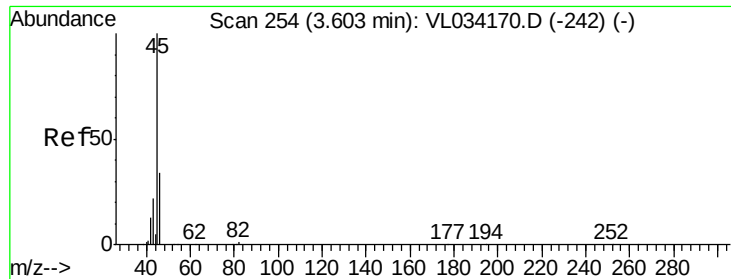
MMDadoda
 9/20/2019 12:44:00 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.526 ppbv m
 RT: 4.50 min Scan# 533
 Delta R.T. 0.00 min
 Lab File: VL034173.D
 Acq: 17 Sep 2019 6:09

Tgt Ion	Ratio	Lower	Upper
101	100		
151	0.0	51.8	77.8#





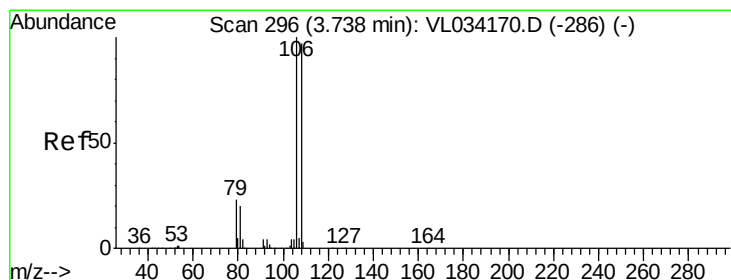
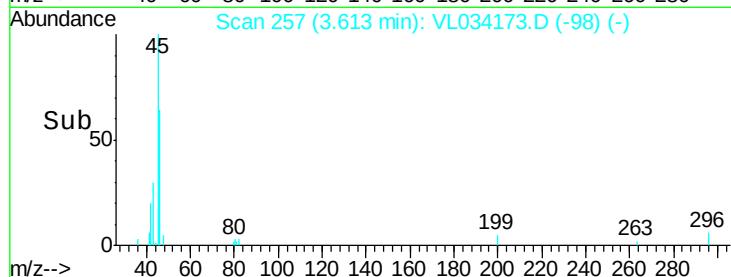
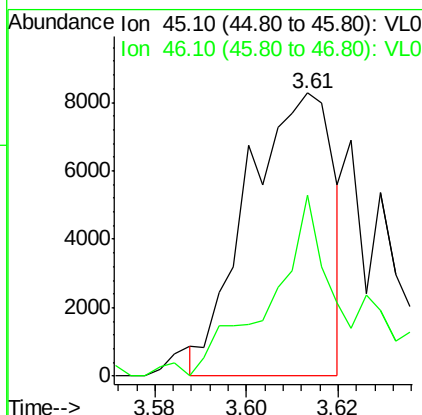
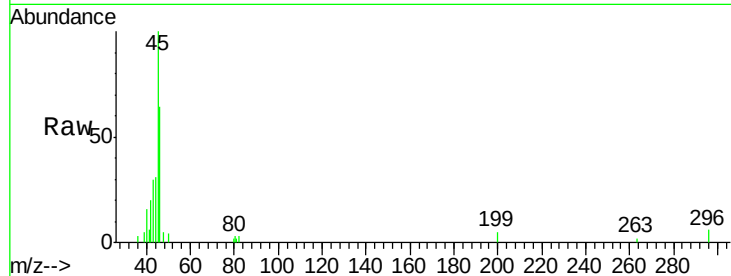
#13
Ethanol
Concen: 0.688 ppbv m
RT: 3.61 min Scan# 257
Delta R.T. 0.01 min
Lab File: VL034173.D
Acq: 17 Sep 2019 6:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
45	100		
46	64.0	15.5	61.9#

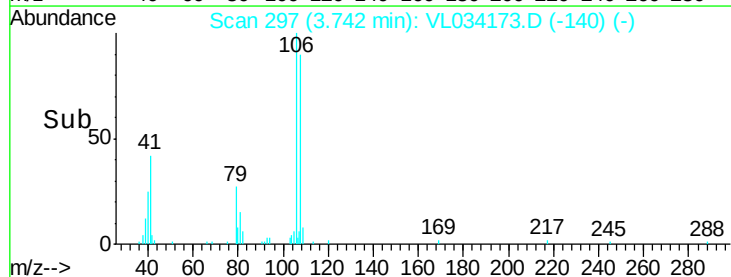
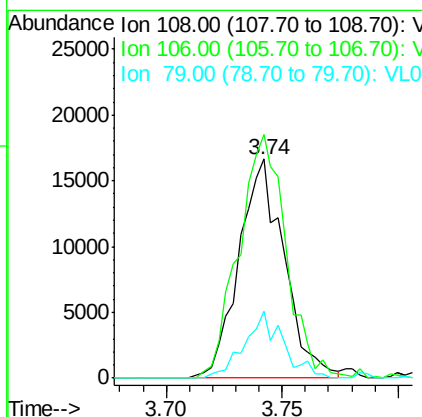
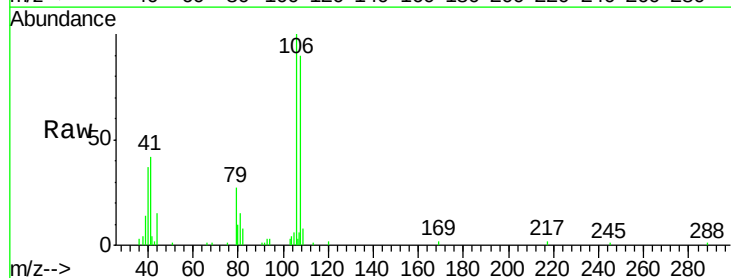
Manual Integrations
APPROVED

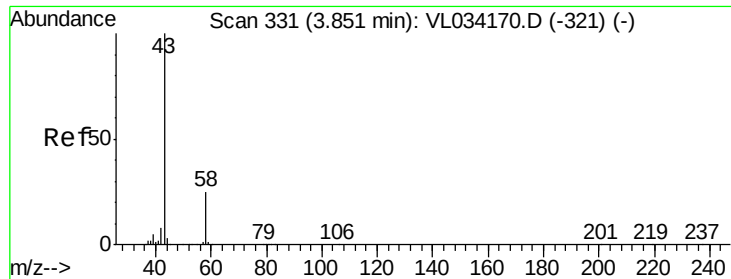
MMDadoda
9/20/2019 12:44:00 AM



#14
Bromoethene
Concen: 0.451 ppbv
RT: 3.74 min Scan# 297
Delta R.T. 0.00 min
Lab File: VL034173.D
Acq: 17 Sep 2019 6:09

Tgt Ion	Ratio	Lower	Upper
108	100		
106	118.6	86.2	129.4
79	25.9	18.6	27.8





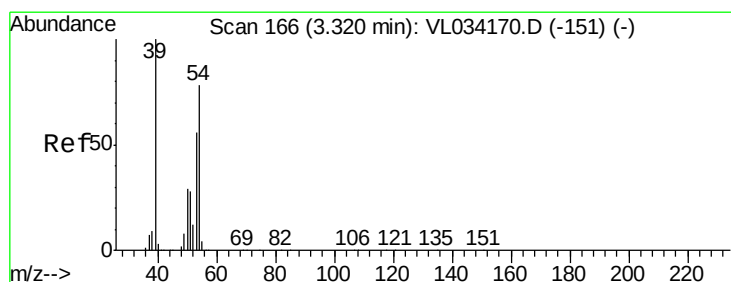
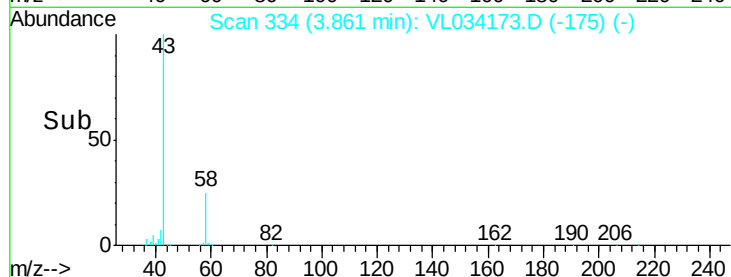
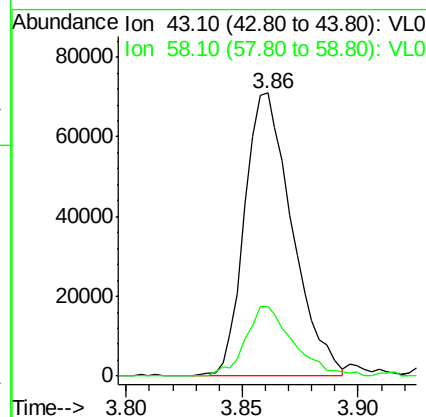
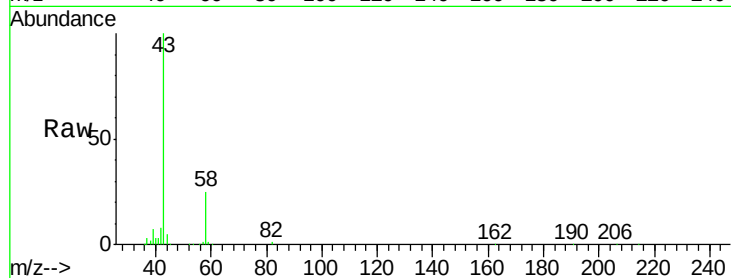
#15
Acetone
Concen: 0.648 ppbv
RT: 3.86 min Scan# 334
Delta R.T. 0.01 min
Lab File: VL034173.D
Acq: 17 Sep 2019 6:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 43 Resp: 101332
Ion Ratio Lower Upper
43 100
58 25.3 20.5 30.7

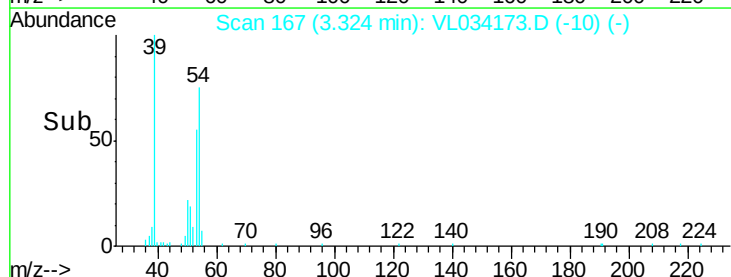
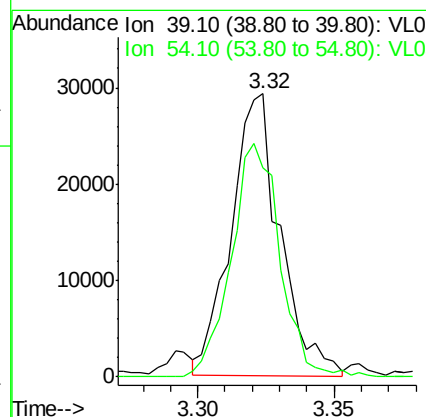
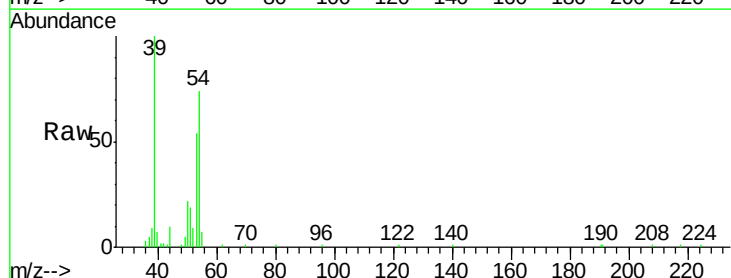
Manual Integrations
APPROVED

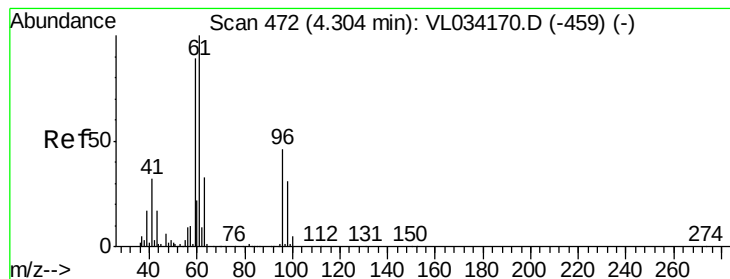
MMDadoda
9/20/2019 12:44:00 AM



#16
1,3-Butadiene
Concen: 0.464 ppbv
RT: 3.32 min Scan# 167
Delta R.T. 0.00 min
Lab File: VL034173.D
Acq: 17 Sep 2019 6:09

Tgt Ion: 39 Resp: 36585
Ion Ratio Lower Upper
39 100
54 82.3 63.4 95.0





#17

tert-Butyl alcohol

Concen: 0.558 ppbv

RT: 4.32 min Scan# 478

Delta R.T. 0.02 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 59 Resp: 62940

Ion Ratio Lower Upper

59 100

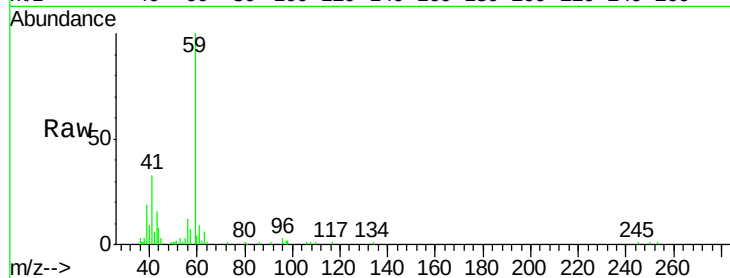
57 12.0 8.7 13.1

Manual Integrations

APPROVED

MMDadoda

9/20/2019 12:44:00 AM



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.32

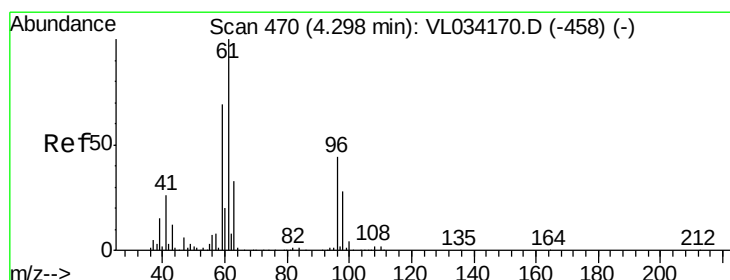
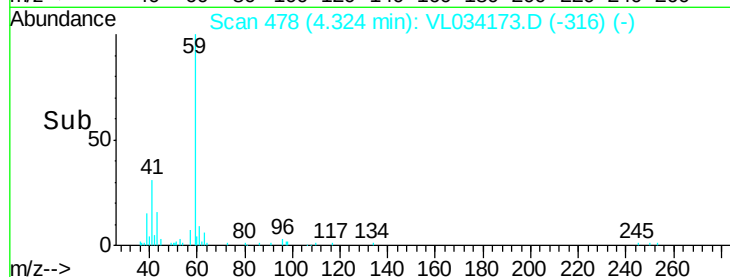
30000

20000

10000

0

Time--> 4.25 4.30 4.35



#18

1,1-Dichloroethene

Concen: 0.487 ppbv

RT: 4.30 min Scan# 471

Delta R.T. 0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

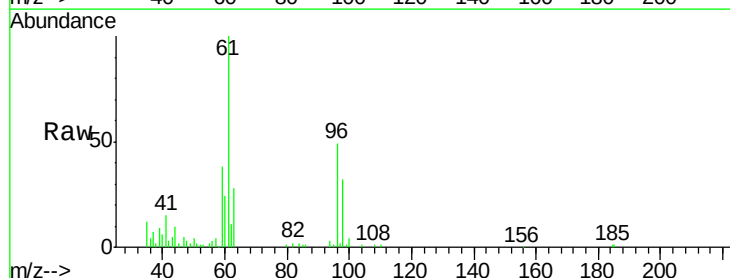
Tgt Ion: 96 Resp: 25647

Ion Ratio Lower Upper

96 100

61 202.5 183.3 274.9

98 65.7 51.4 77.2



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

50000

40000

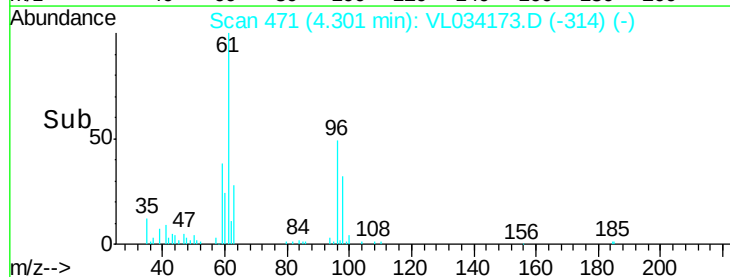
30000

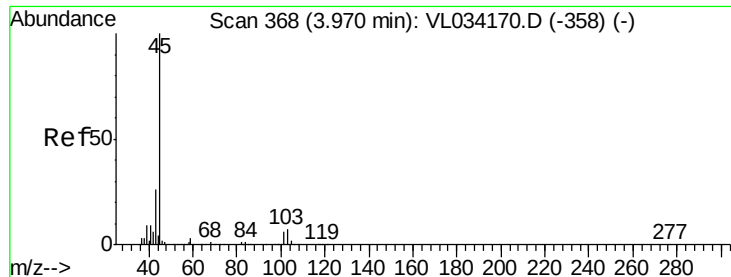
20000

10000

0

Time--> 4.25 4.30 4.35





#19

Isopropyl Alcohol

Concen: 0.630 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.01 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 45 Resp: 65922

Ion Ratio Lower Upper

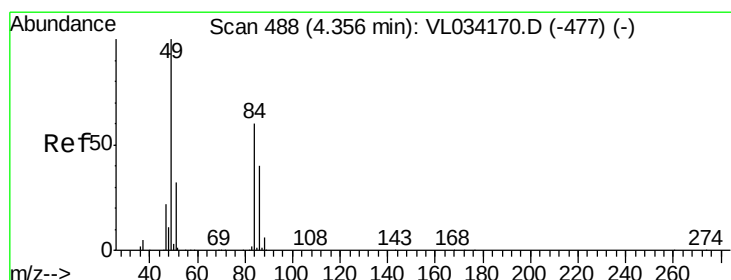
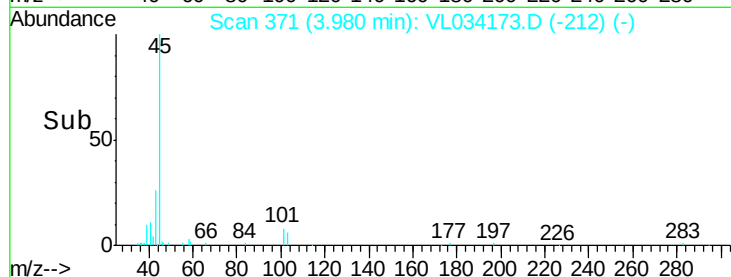
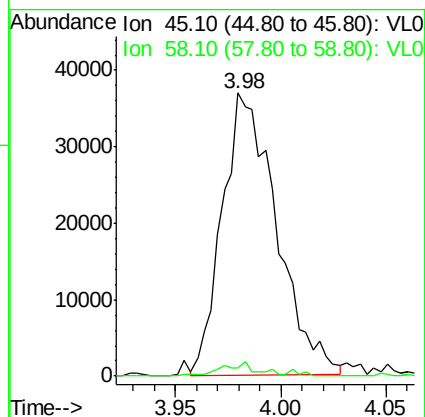
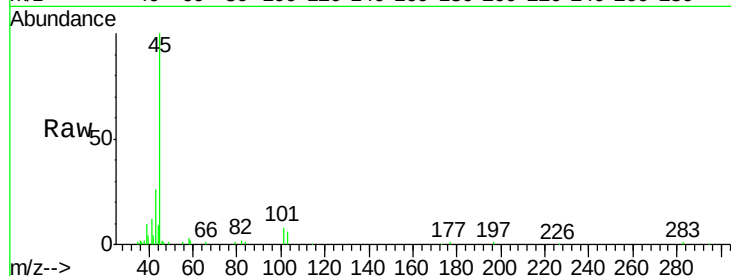
45 100

58 3.7 1.4 2.0#

Manual Integrations
APPROVED

MMDadoda

9/20/2019 12:44:00 AM



#20

Methylene Chloride

Concen: 0.564 ppbv

RT: 4.35 min Scan# 487

Delta R.T. -0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Tgt Ion: 84 Resp: 28873

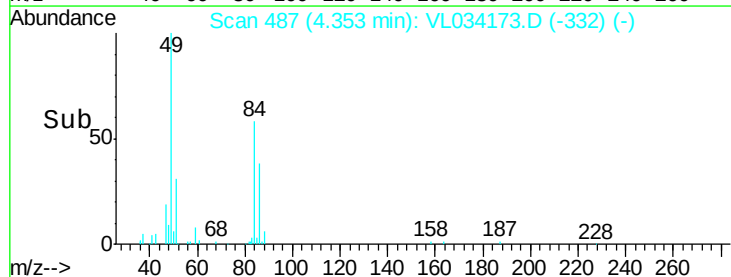
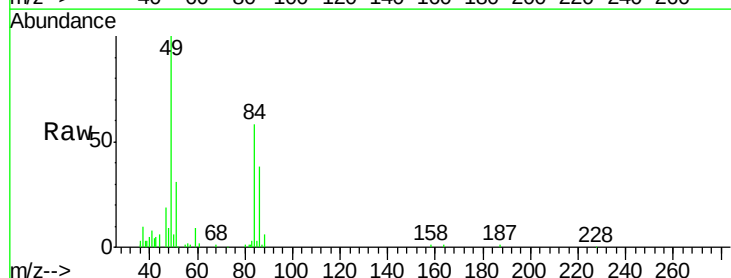
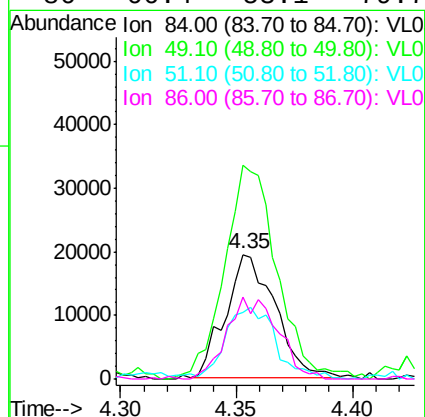
Ion Ratio Lower Upper

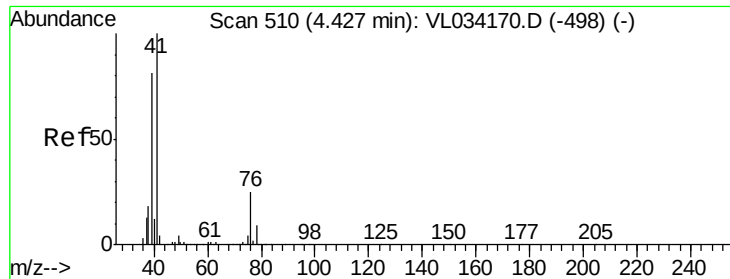
84 100

49 167.4 133.8 200.8

51 52.9 43.6 65.4

86 66.4 53.1 79.7





#21

Allvl Chloride

Concen: 0.470 ppbv

RT: 4.43 min Scan# 510

Delta R.T. 0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA_L

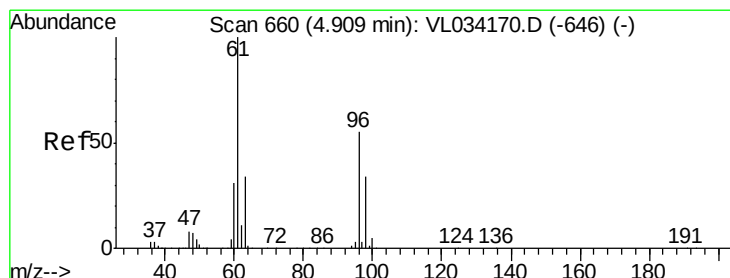
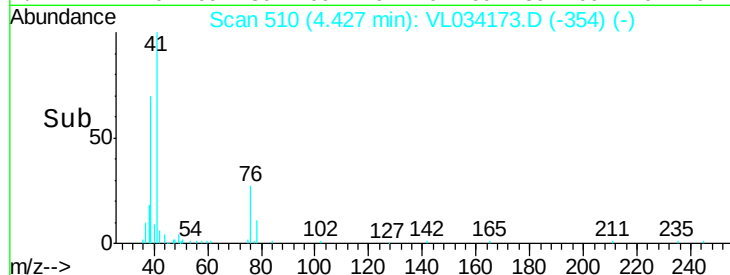
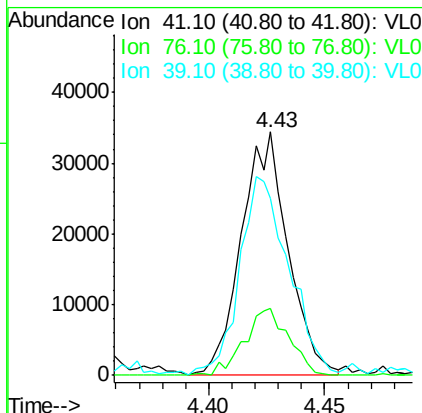
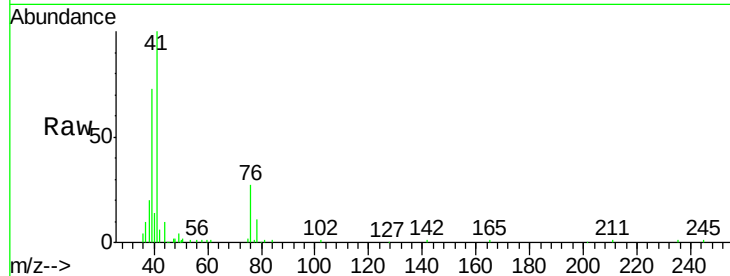
ClientSampleId :

VSTDIC0.5

Tot Ion:	41	Resp:	48204
Ion Ratio	Lower	Upper	
41	100		
76	26.2	21.8	32.6
39	89.5	64.8	97.2

Manual Integrations
APPROVED

MMDadoda
9/20/2019 12:44:00 AM



#22

trans-1,2-Dichloroethene

Concen: 0.463 ppbv

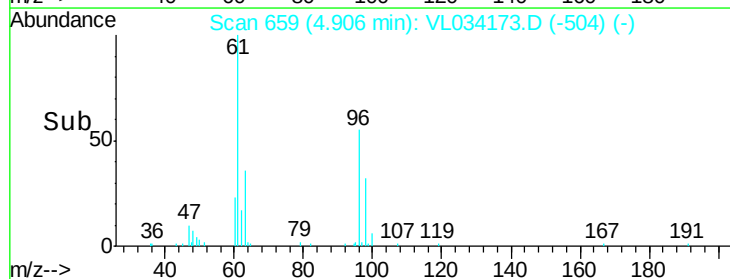
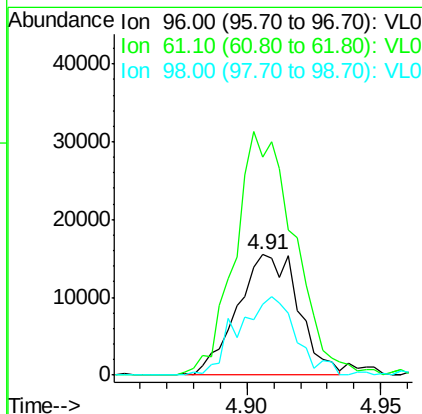
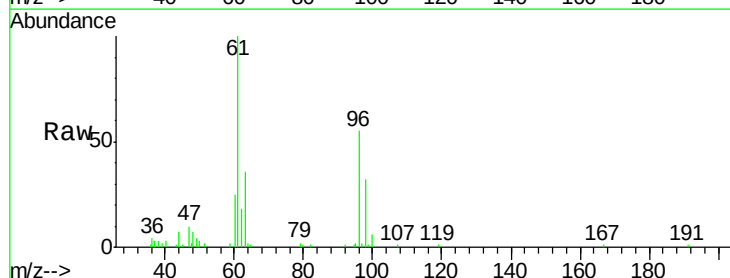
RT: 4.91 min Scan# 659

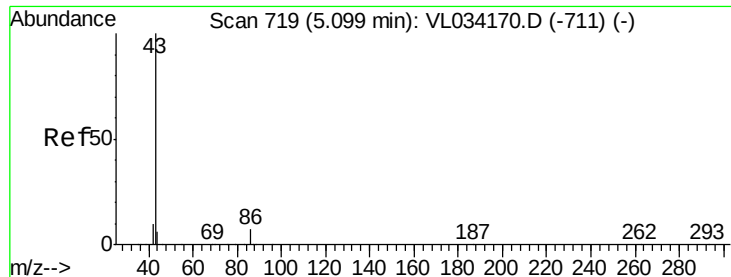
Delta R.T. -0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Tgt Ion:	96	Resp:	24509
Ion Ratio	Lower	Upper	
96	100		
61	180.9	145.5	218.3
98	58.8	49.9	74.9





#23

Vinyl Acetate

Concen: 0.480 ppbv

RT: 5.10 min Scan# 718

Delta R.T. -0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA_L

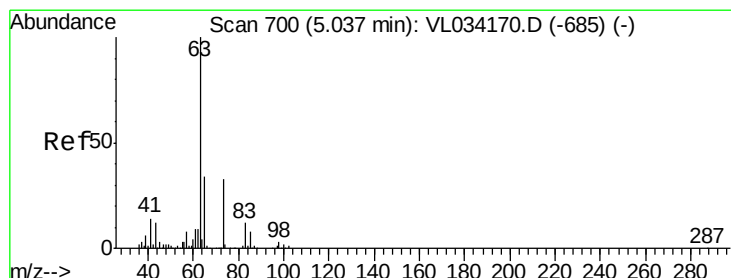
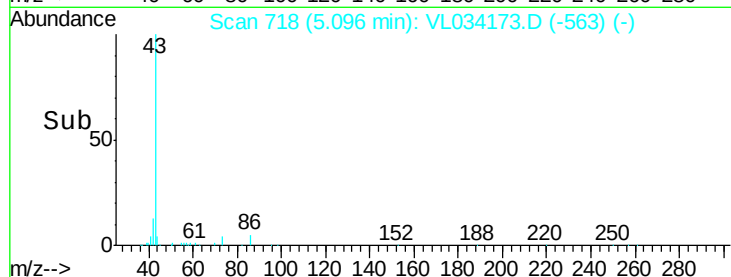
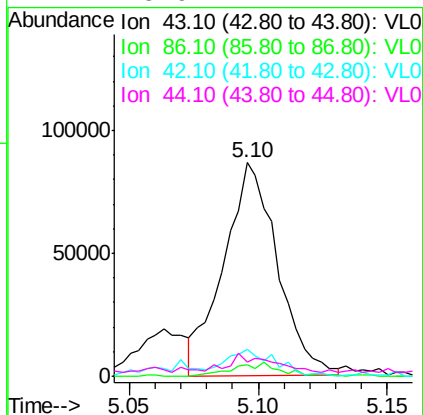
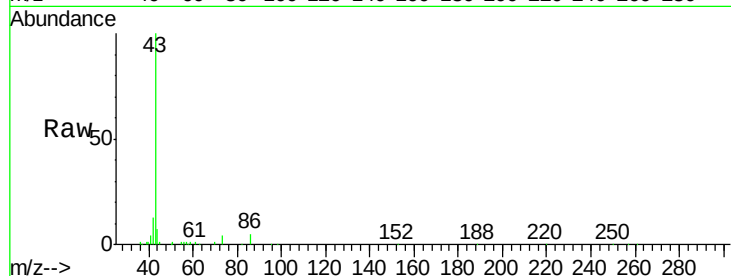
ClientSampleId :

VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
43	100		
86	5.3	5.1	7.7
42	13.1	8.6	12.8
44	5.9	4.7	7.1

Manual Integrations
APPROVED

MMDadoda
9/20/2019 12:44:00 AM



#24

1,1-Dichloroethane

Concen: 0.518 ppbv m

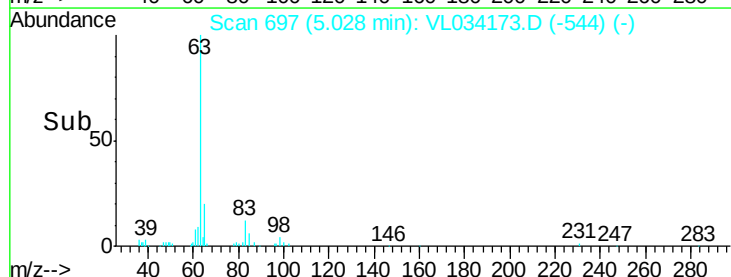
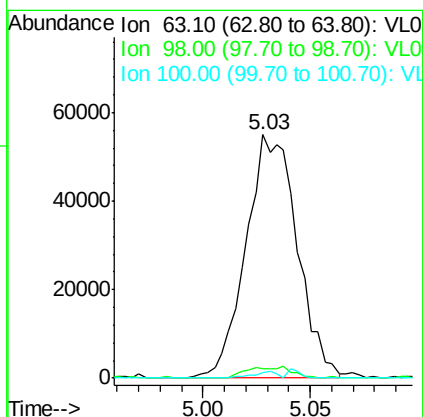
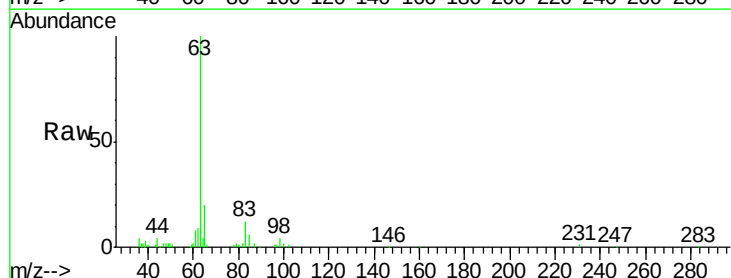
RT: 5.03 min Scan# 697

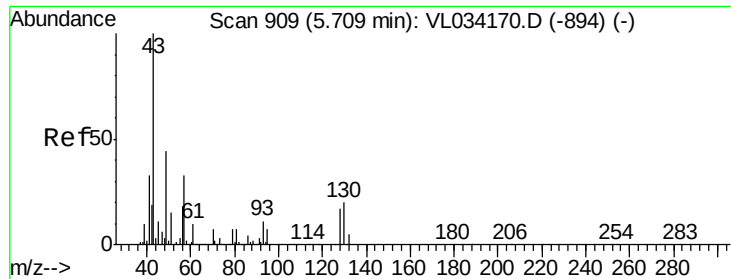
Delta R.T. -0.01 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Tgt Ion	Ratio	Lower	Upper
63	100		
98	3.7	1.8	5.3
100	2.5	1.0	3.0





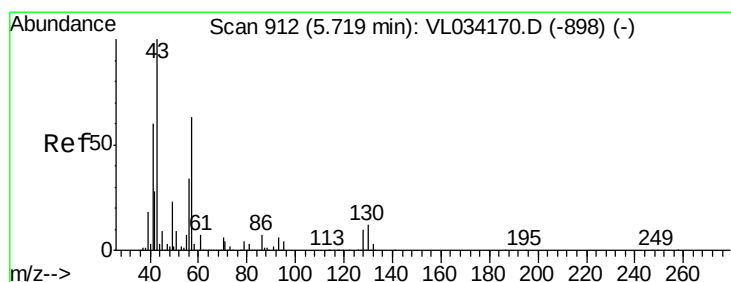
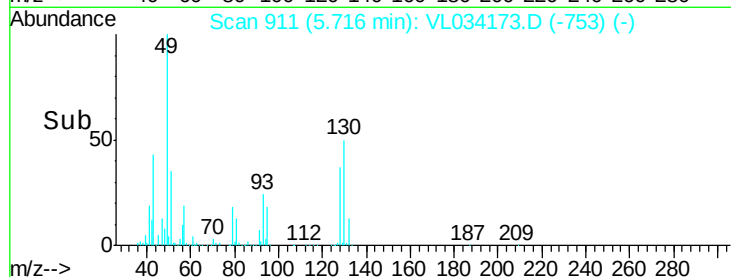
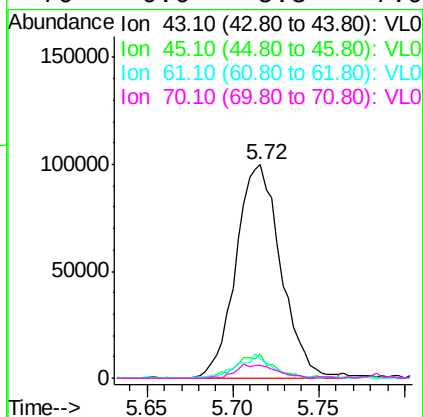
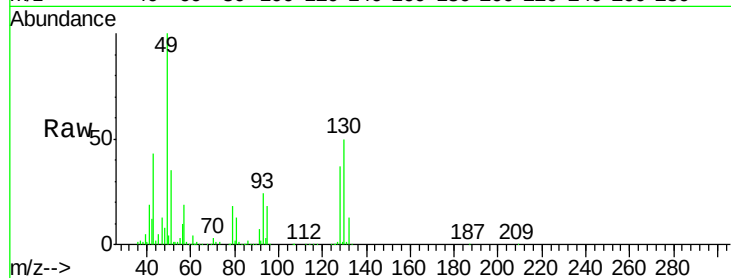
#25
Ethyl Acetate
Concen: 0.529 ppbv
RT: 5.72 min Scan# 911
Delta R.T. 0.01 min
Lab File: VL034173.D
Acq: 17 Sep 2019 6:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	43	Resp	180788
Ion Ratio	Lower	Upper	
43	100		
45	10.0	8.4	12.6
61	9.1	7.2	10.8
70	6.0	5.3	7.9

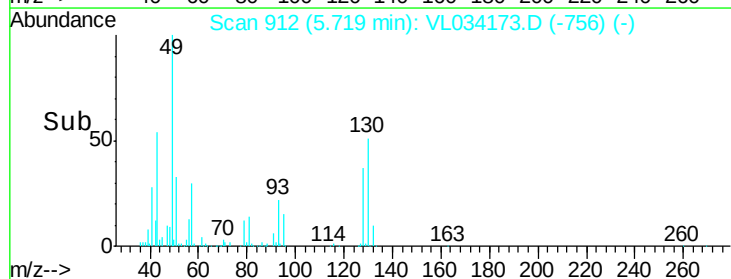
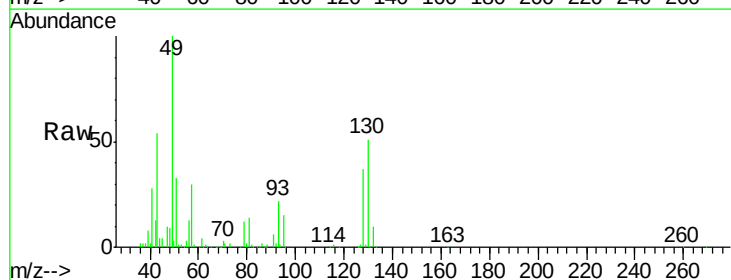
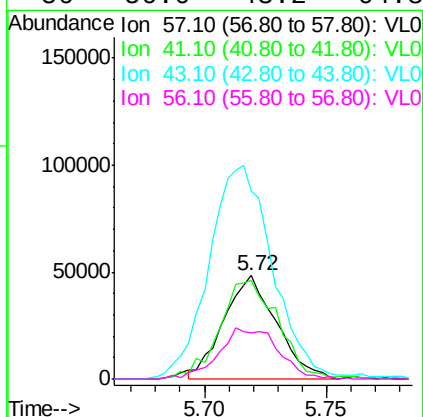
Manual Integrations
APPROVED

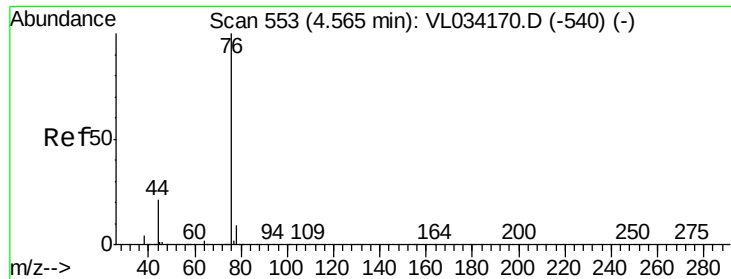
MMDadoda
9/20/2019 12:44:00 AM



#26
Hexane
Concen: 0.474 ppbv
RT: 5.72 min Scan# 912
Delta R.T. 0.00 min
Lab File: VL034173.D
Acq: 17 Sep 2019 6:09

Tgt Ion	57	Resp	71982
Ion Ratio	Lower	Upper	
57	100		
41	107.5	78.5	117.7
43	253.4	189.5	284.3
56	56.0	43.2	64.8





#27

Carbon Disulfide

Concen: 0.409 ppbv

RT: 4.57 min Scan# 554

Delta R.T. 0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA_L

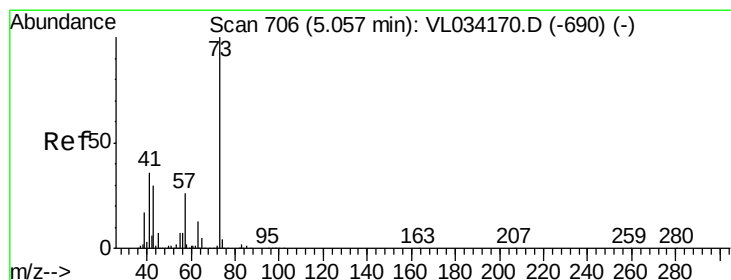
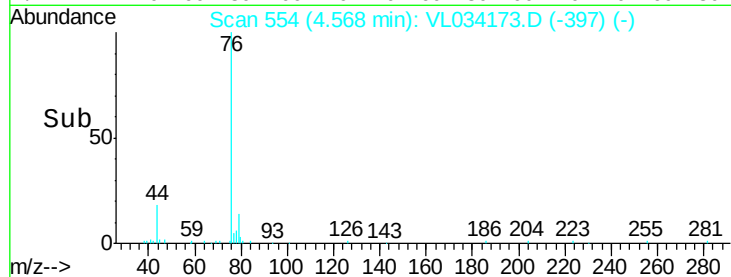
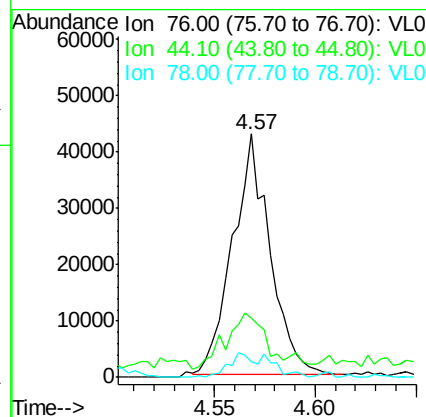
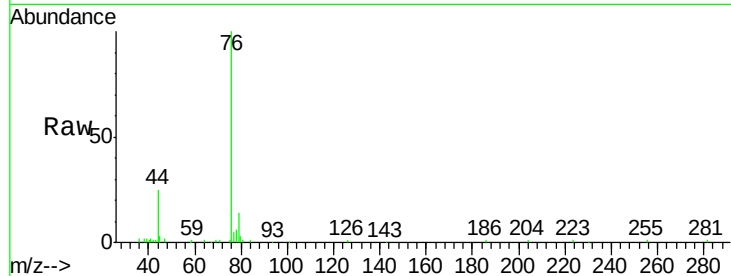
ClientSampleId :

VSTDIC0.5

Tot Ion:	76	Resp:	55692
Ion Ratio	Lower	Upper	
76	100		
44	29.8	17.6	26.4#
78	11.7	7.6	11.4#

Manual Integrations
APPROVED

MMDadoda
9/20/2019 12:44:00 AM



#28

Methyl tert-Butyl Ether

Concen: 0.465 ppbv

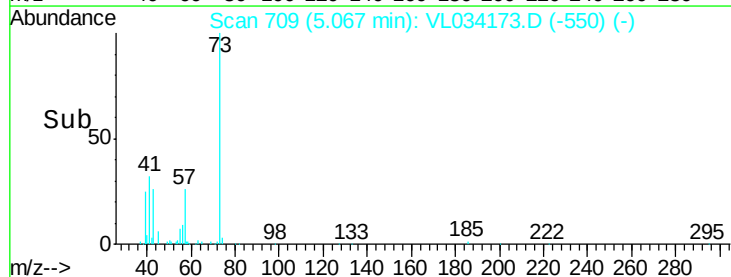
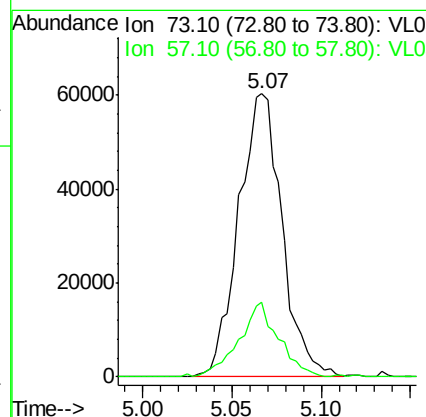
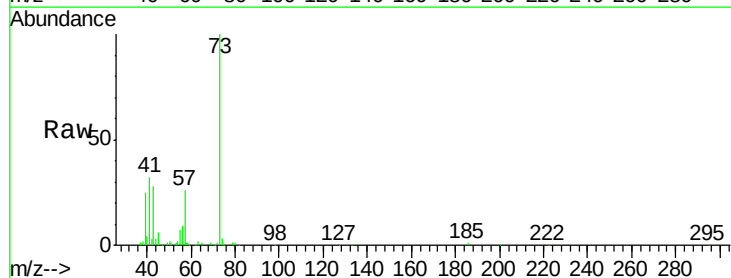
RT: 5.07 min Scan# 709

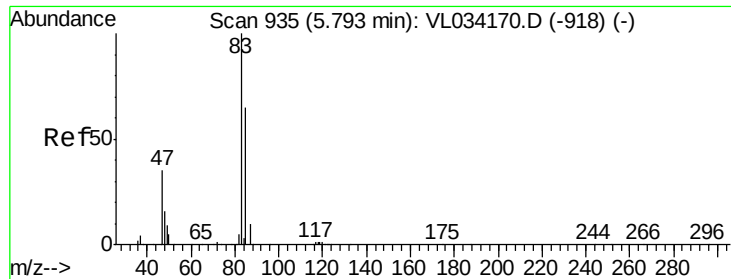
Delta R.T. 0.01 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Tgt Ion:	73	Resp:	102314
Ion Ratio	Lower	Upper	
73	100		
57	24.5	20.2	30.2





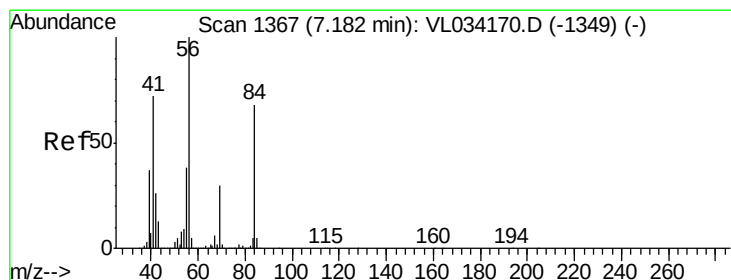
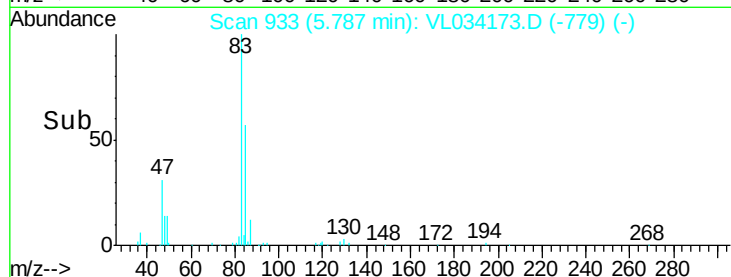
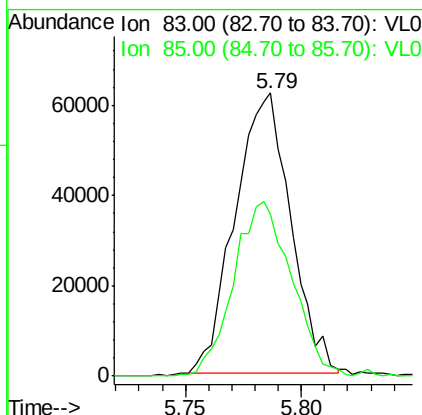
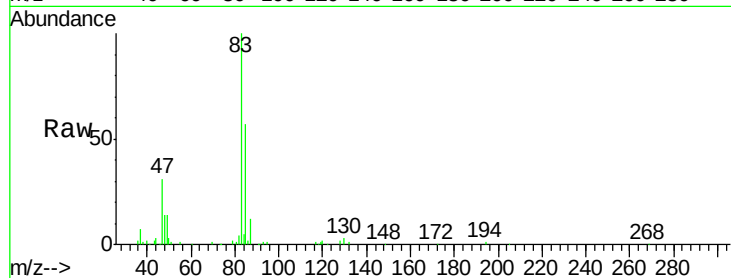
#29
Chloroform
Concen: 0.508 ppbv
RT: 5.79 min Scan# 933
Delta R.T. -0.01 min
Lab File: VL034173.D
Acq: 17 Sep 2019 6:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	83	Resp	104065
Ion Ratio	Lower	Upper	
83	100		
85	57.0	52.3	78.5

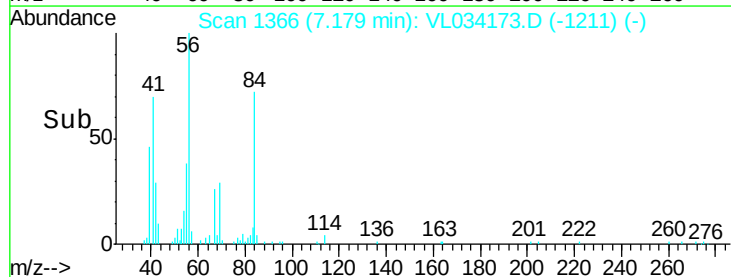
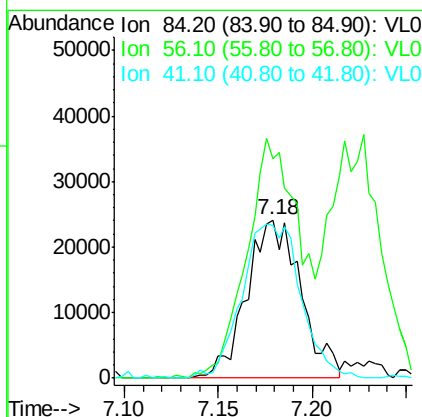
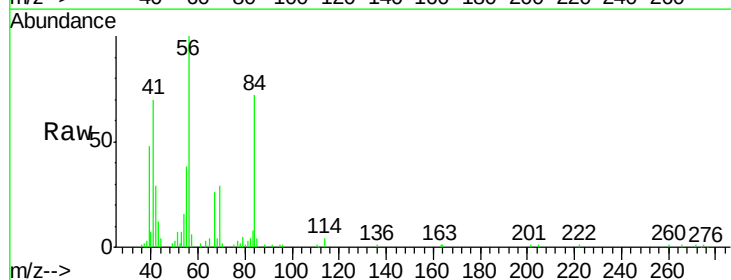
Manual Integrations
APPROVED

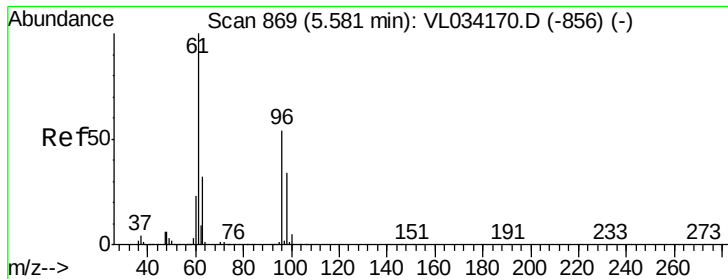
MMDadoda
9/20/2019 12:44:00 AM



#30
Cyclohexane
Concen: 0.446 ppbv m
RT: 7.18 min Scan# 1366
Delta R.T. -0.00 min
Lab File: VL034173.D
Acq: 17 Sep 2019 6:09

Tgt Ion	84	Resp	48347
Ion Ratio	Lower	Upper	
84	100		
56	132.4	126.2	189.2
41	105.9	85.8	128.8





#31

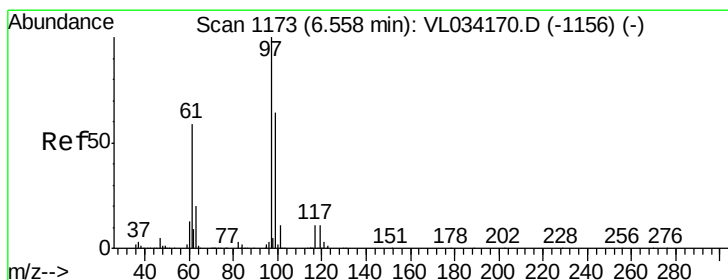
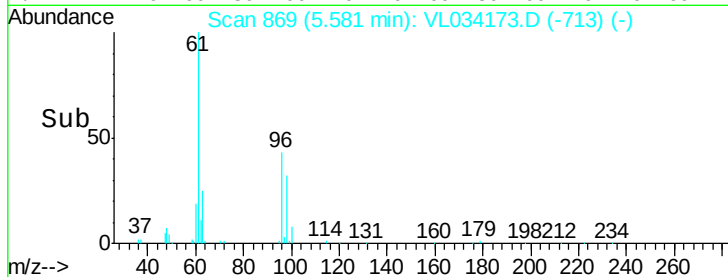
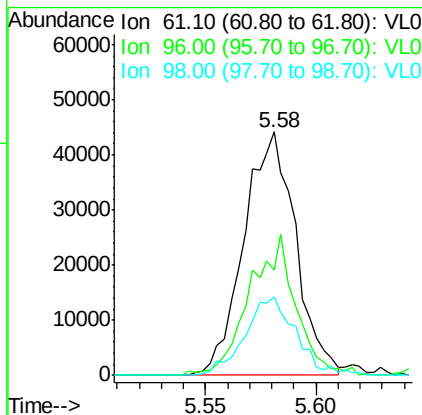
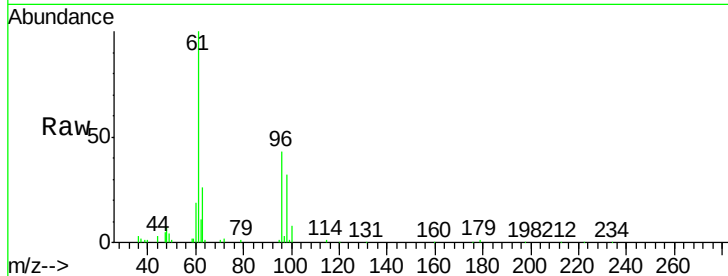
cis-1,2-Dichloroethene
Concen: 0.493 ppbv
RT: 5.58 min Scan# 869
Delta R.T. 0.00 min
Lab File: VL034173.D
Acq: 17 Sep 2019 6:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
61	100		
96	41.8	43.0	64.4#
98	32.5	27.2	40.8

Manual Integrations
APPROVED

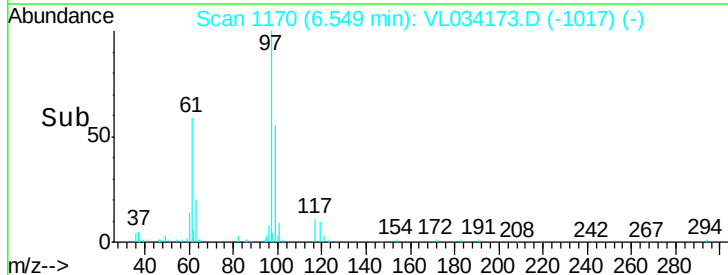
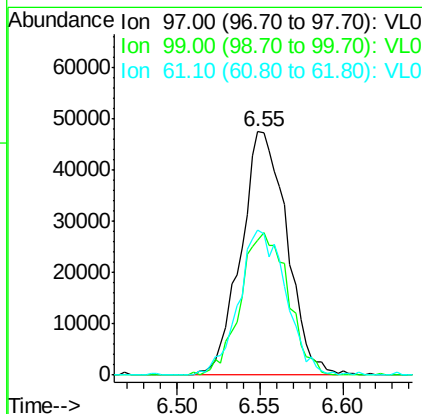
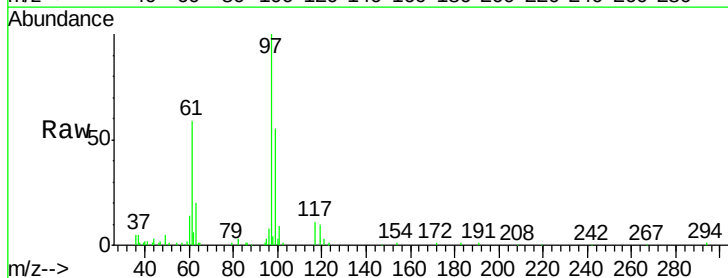
MMDadoda
9/20/2019 12:44:00 AM

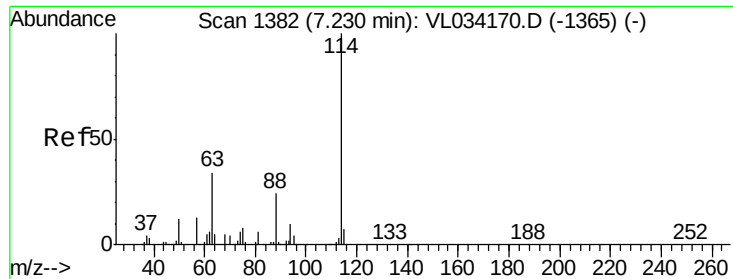


#32

1,1,1-Trichloroethane
Concen: 0.471 ppbv
RT: 6.55 min Scan# 1170
Delta R.T. -0.01 min
Lab File: VL034173.D
Acq: 17 Sep 2019 6:09

Tgt Ion	Ratio	Lower	Upper
97	100		
99	60.6	51.4	77.2
61	61.2	48.4	72.6





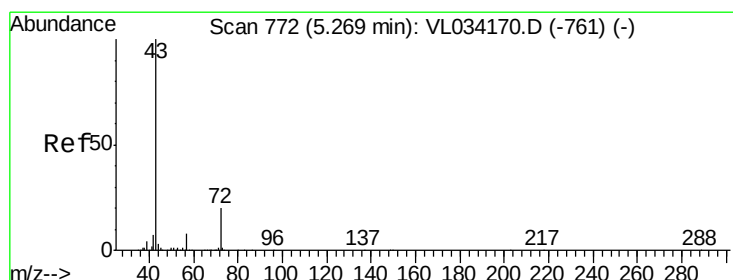
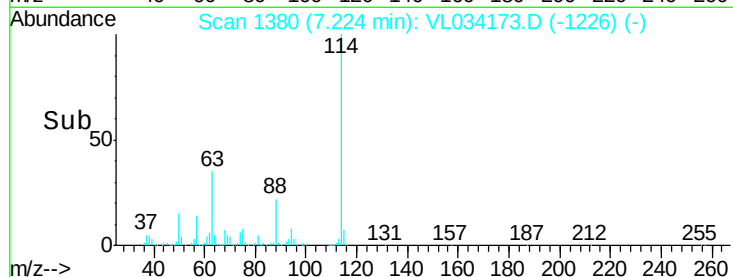
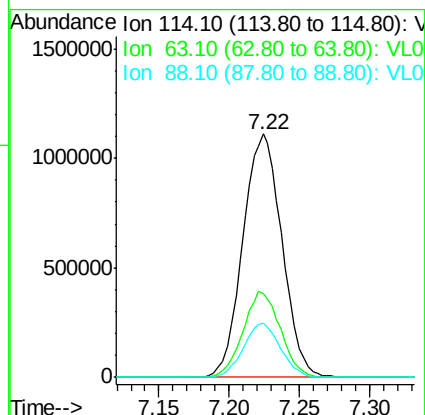
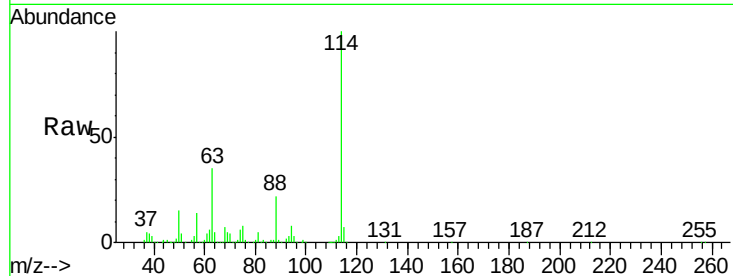
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.22 min Scan# 1380
 Delta R.T. -0.01 min
 Lab File: VL034173.D
 Acq: 17 Sep 2019 6:09

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
114	100		
63	33.9	27.8	41.6
88	21.3	17.1	25.7

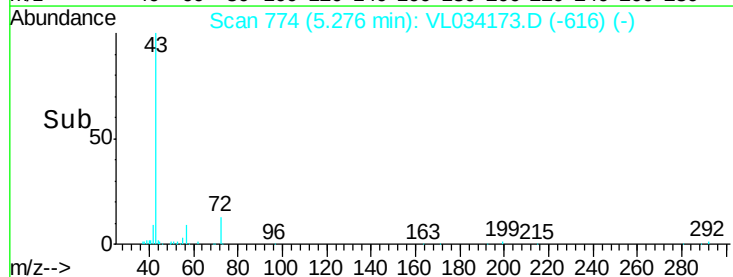
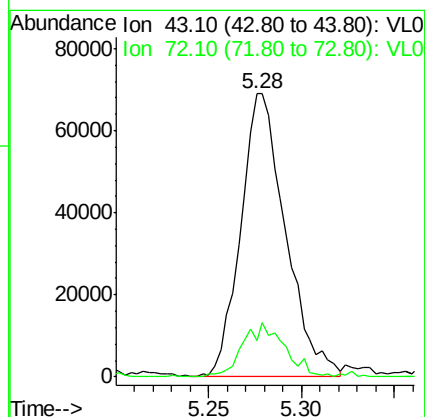
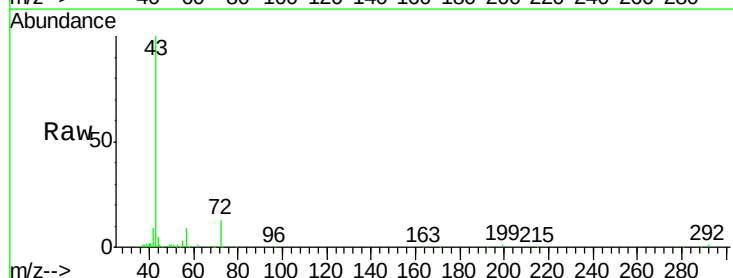
Manual Integrations
 APPROVED

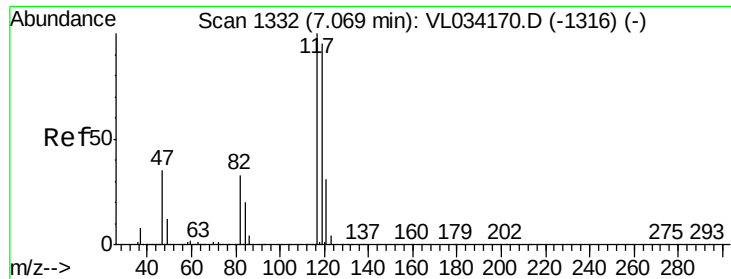
MMDadoda
 9/20/2019 12:44:00 AM



#34
 2-Butanone
 Concen: 0.552 ppbv
 RT: 5.28 min Scan# 774
 Delta R.T. 0.01 min
 Lab File: VL034173.D
 Acq: 17 Sep 2019 6:09

Tgt Ion	Ratio	Lower	Upper
43	100		
72	18.4	15.0	22.6





#35

Carbon Tetrachloride

Concen: 0.509 ppbv

RT: 7.07 min Scan# 1331

Delta R.T. -0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 117 Resp: 86649

Ion Ratio Lower Upper

117 100

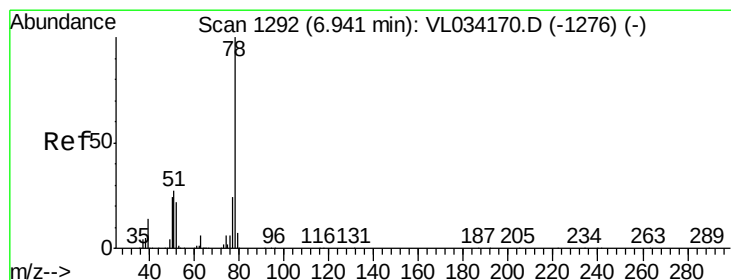
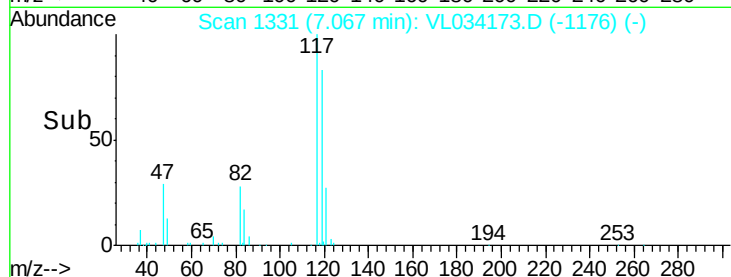
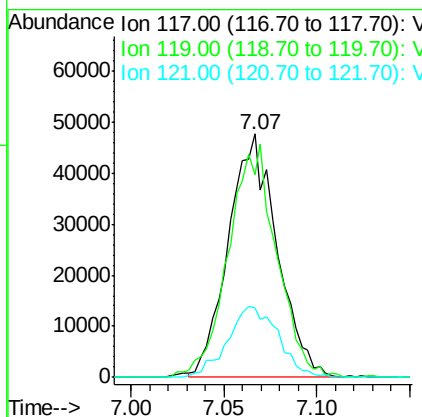
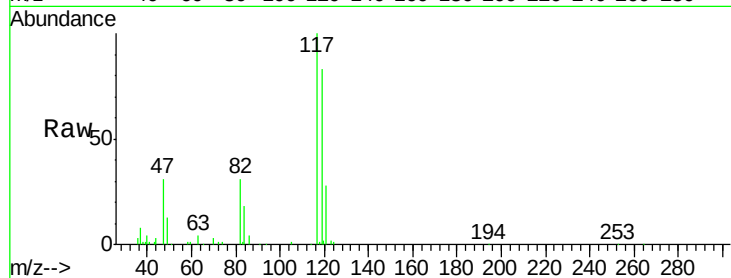
119 81.6 75.8 113.6

121 28.4 25.0 37.6

Manual Integrations
APPROVED

MMDadoda

9/20/2019 12:44:00 AM



#36

Benzene

Concen: 0.521 ppbv

RT: 6.93 min Scan# 1290

Delta R.T. -0.01 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

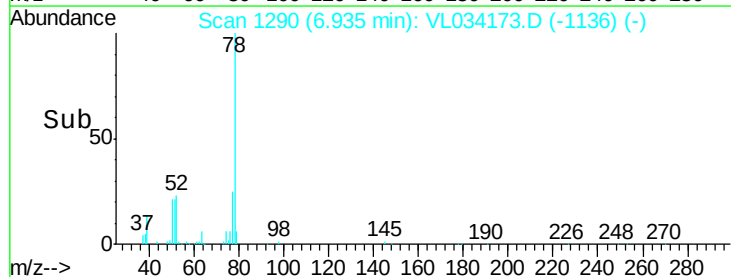
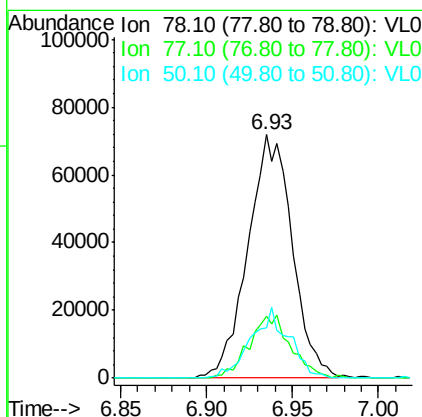
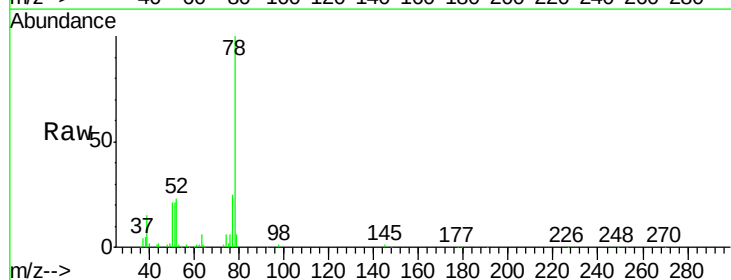
Tgt Ion: 78 Resp: 128298

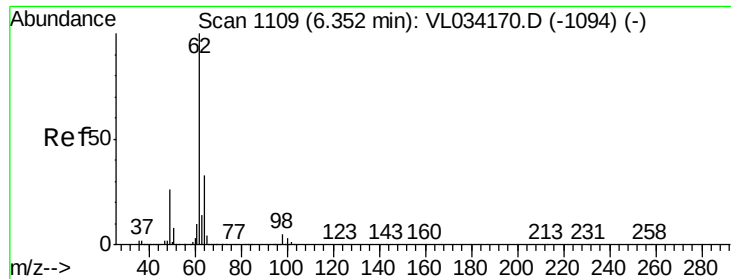
Ion Ratio Lower Upper

78 100

77 25.3 19.0 28.4

50 20.6 18.9 28.3





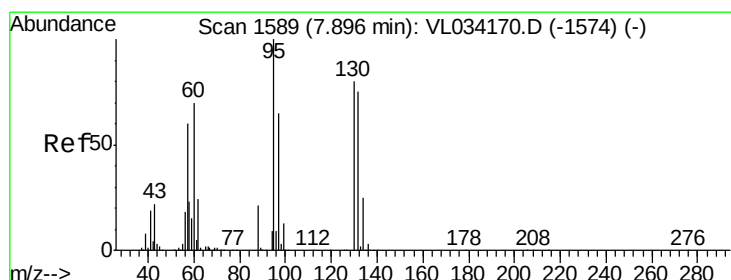
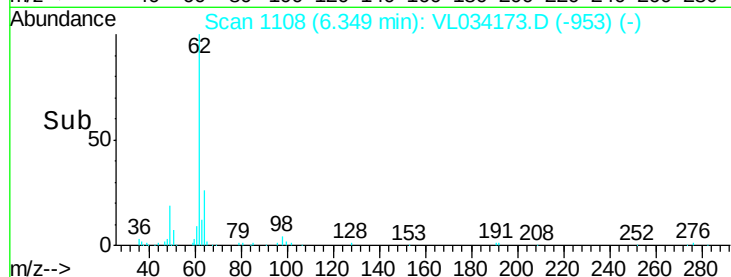
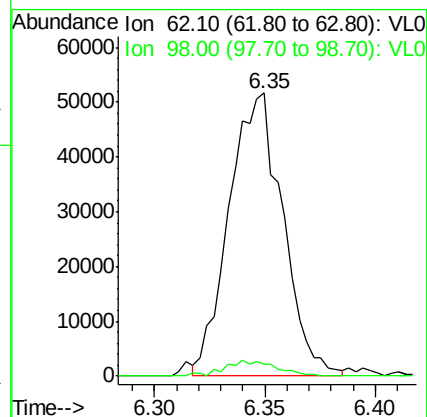
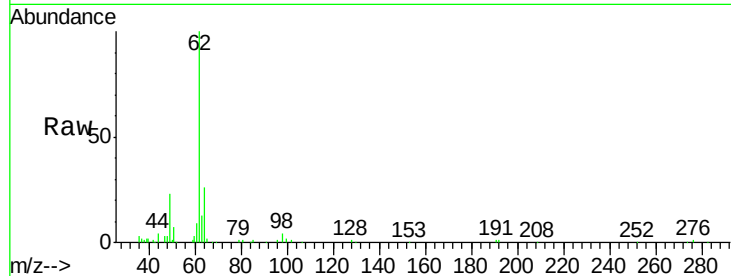
#37
1,2-Dichloroethane
Concen: 0.559 ppbv
RT: 6.35 min Scan# 1108
Delta R.T. -0.00 min
Lab File: VL034173.D
Acq: 17 Sep 2019 6:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
62	100	87184		
98	5.4	3.8	5.8	

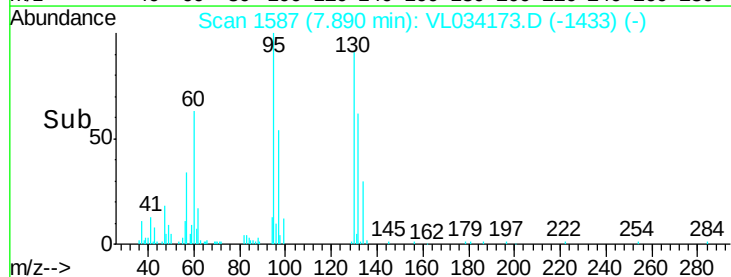
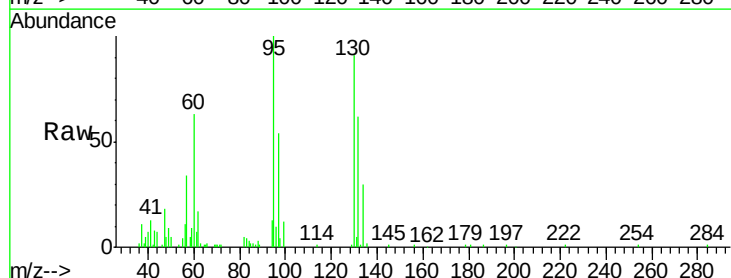
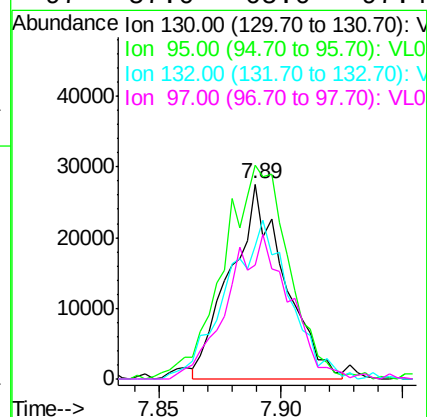
Manual Integrations
APPROVED

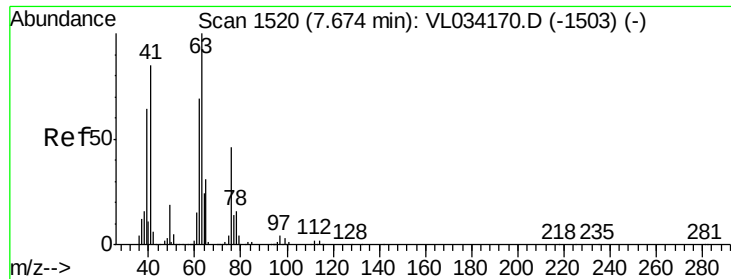
MMDadoda
9/20/2019 12:44:00 AM



#38
Trichloroethene
Concen: 0.458 ppbv
RT: 7.89 min Scan# 1587
Delta R.T. -0.01 min
Lab File: VL034173.D
Acq: 17 Sep 2019 6:09

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	42302		
95	110.8	99.8	149.6	
132	69.6	75.2	112.8#	
97	57.0	65.0	97.4#	





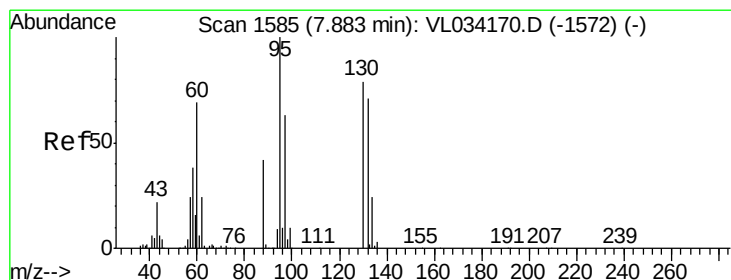
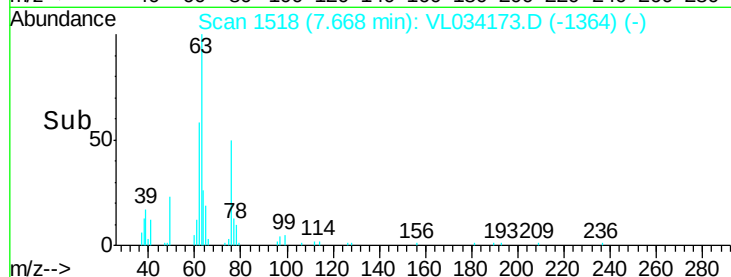
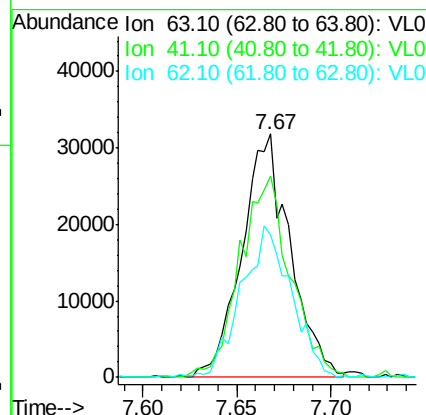
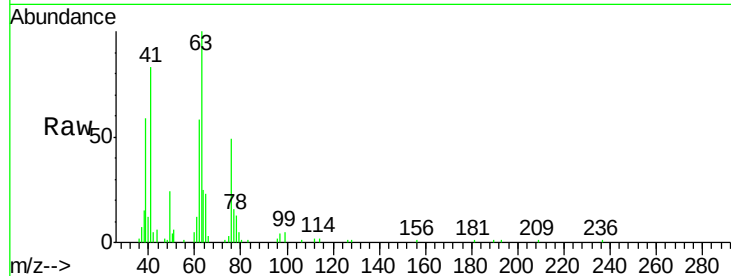
#39
 1,2-Dichloropropane
 Concen: 0.532 ppbv m
 RT: 7.67 min Scan# 1518
 Delta R.T. -0.01 min
 Lab File: VL034173.D
 Acq: 17 Sep 2019 6:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion:	63	Resp:	56596
Ion	Ratio	Lower	Upper
63	100		
41	82.9	68.4	102.6
62	58.4	55.4	83.2

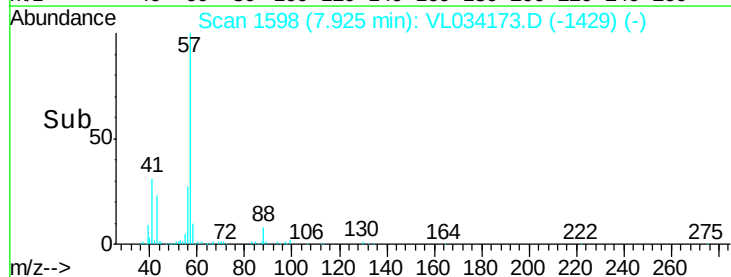
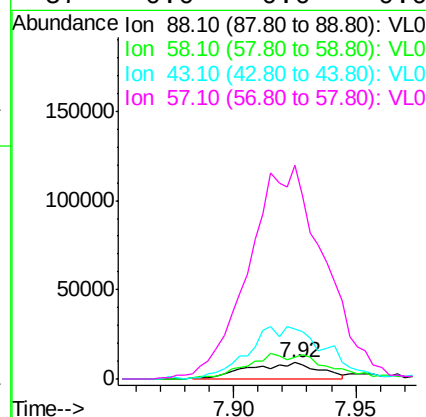
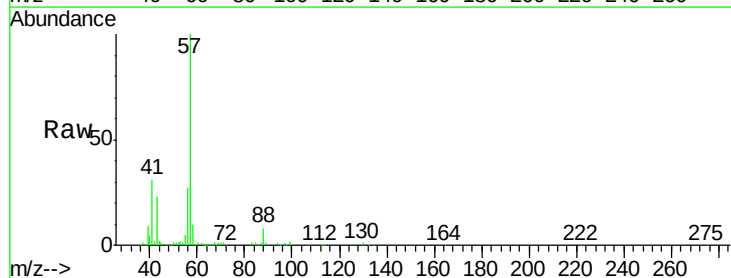
Manual Integrations
 APPROVED

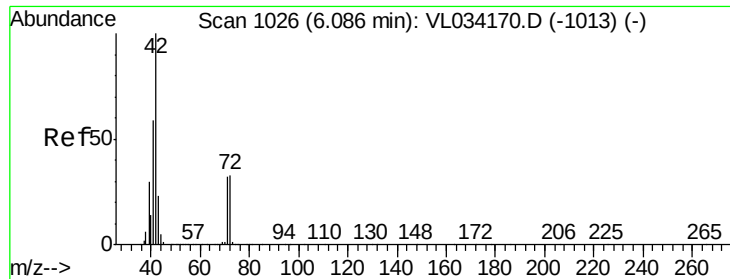
MMDadoda
 9/20/2019 12:44:00 AM



#40
 1,4-Dioxane
 Concen: 0.480 ppbv m
 RT: 7.92 min Scan# 1598
 Delta R.T. 0.04 min
 Lab File: VL034173.D
 Acq: 17 Sep 2019 6:09

Tgt Ion:	88	Resp:	18520
Ion	Ratio	Lower	Upper
88	100		
58	185.7	131.8	197.6
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 0.467 ppbv m

RT: 6.10 min Scan# 1030

Delta R.T. 0.01 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA_L

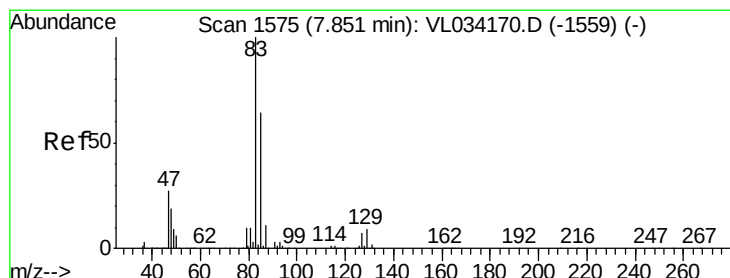
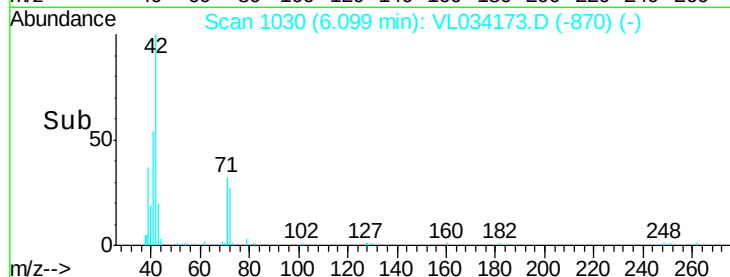
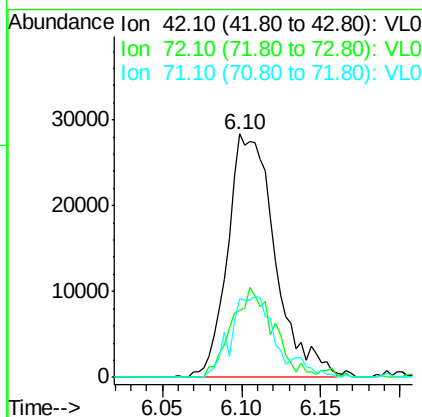
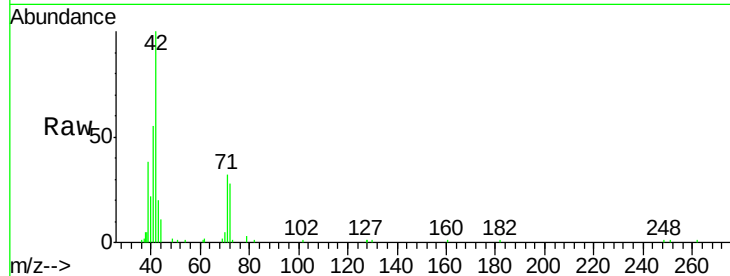
ClientSampleId :

VSTDIC0.5

Tot Ion:	42	Resp:	58649
Ion Ratio		Lower	Upper
42	100		
72	0.0	26.6	40.0#
71	0.0	25.1	37.7#

Manual Integrations
APPROVED

MMDadoda
9/20/2019 12:44:00 AM



#42

Bromodichloromethane

Concen: 0.514 ppbv m

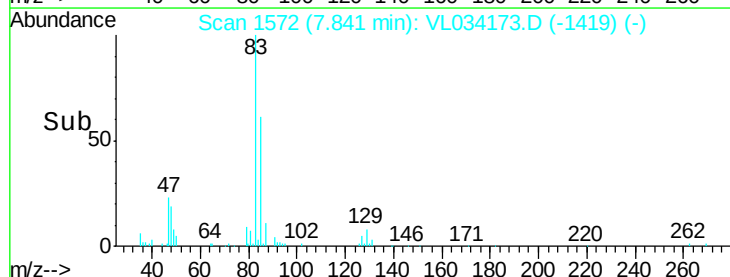
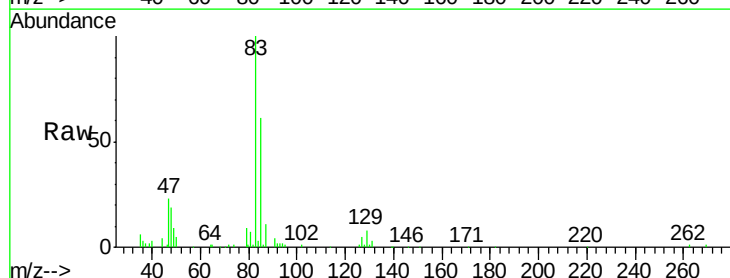
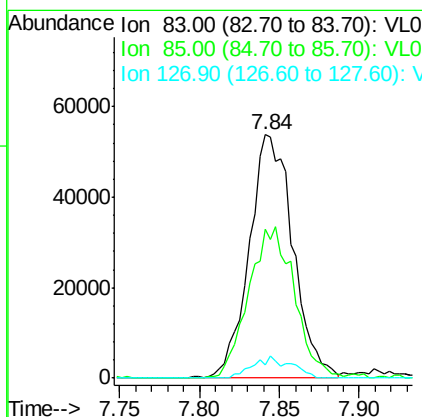
RT: 7.84 min Scan# 1572

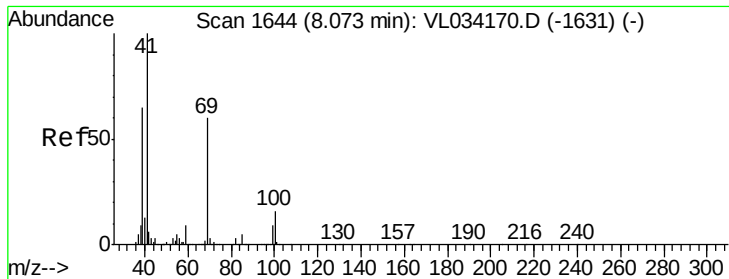
Delta R.T. -0.01 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Tgt Ion:	83	Resp:	102542
Ion Ratio		Lower	Upper
83	100		
85	61.4	51.4	77.0
127	5.5	5.5	8.3#





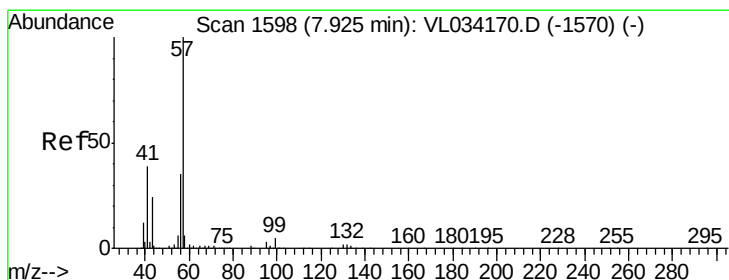
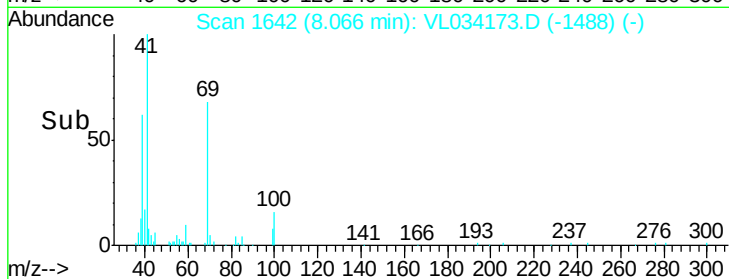
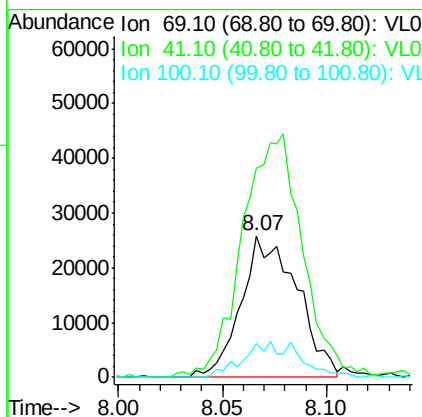
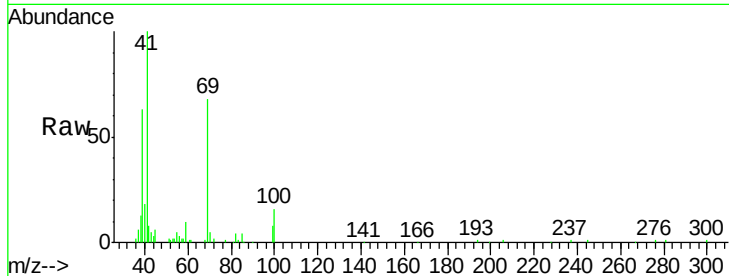
#43
Methvl Methacrylate
Concen: 0.476 ppbv m
RT: 8.07 min Scan# 1642
Delta R.T. -0.01 min
Lab File: VL034173.D
Acq: 17 Sep 2019 6:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
69	100		
41	0.0	140.4	210.6#
100	0.0	21.9	32.9#

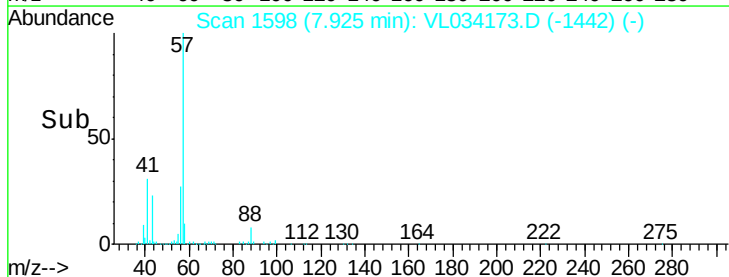
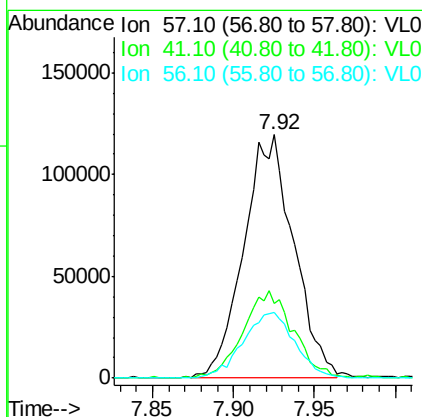
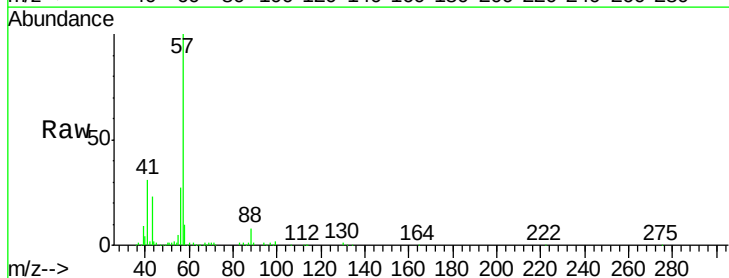
Manual Integrations
APPROVED

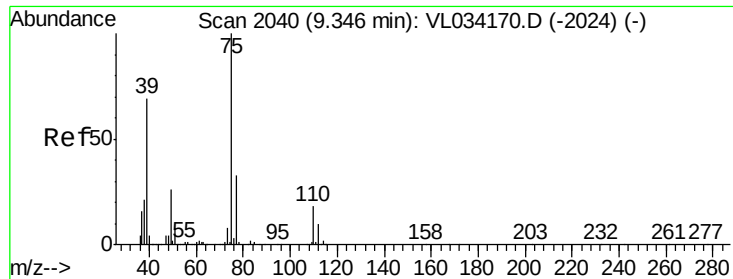
MMDadoda
9/20/2019 12:44:00 AM



#44
2,2,4-Trimethylpentane
Concen: 0.559 ppbv m
RT: 7.92 min Scan# 1598
Delta R.T. 0.00 min
Lab File: VL034173.D
Acq: 17 Sep 2019 6:09

Tgt Ion	Ratio	Lower	Upper
57	100		
41	0.0	29.8	44.6#
56	0.0	25.9	38.9#





#45

t-1,3-Dichloropropene

Concen: 0.383 ppbv m

RT: 9.35 min Scan# 2040

Delta R.T. 0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA_L

ClientSampled :

VSTDIC0.5

Tot Ion: 75 Resp: 46056

Ion Ratio Lower Upper

75 100

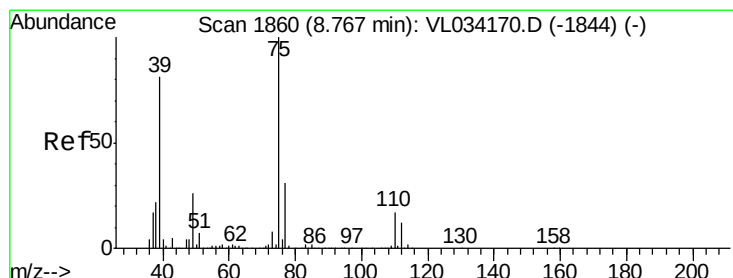
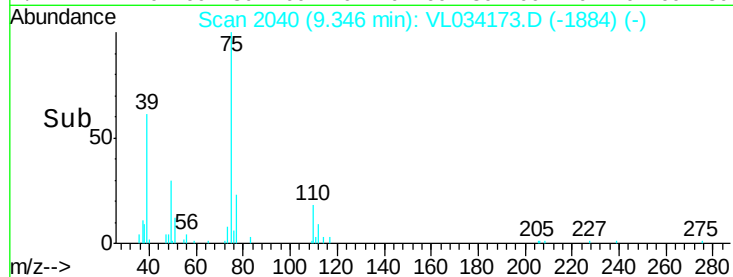
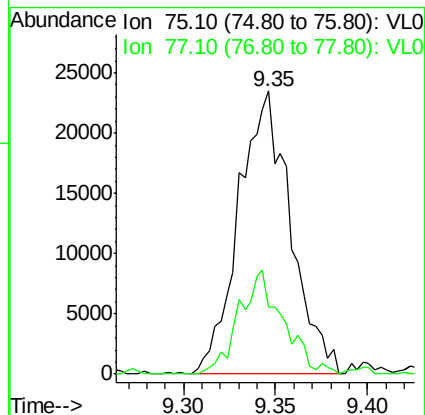
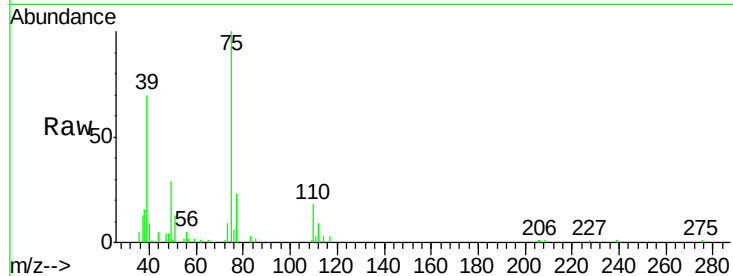
77 23.5 26.2 39.2#

Manual Integrations

APPROVED

MMDadoda

9/20/2019 12:44:00 AM



#46

cis-1,3-Dichloropropene

Concen: 0.422 ppbv

RT: 8.77 min Scan# 1860

Delta R.T. 0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

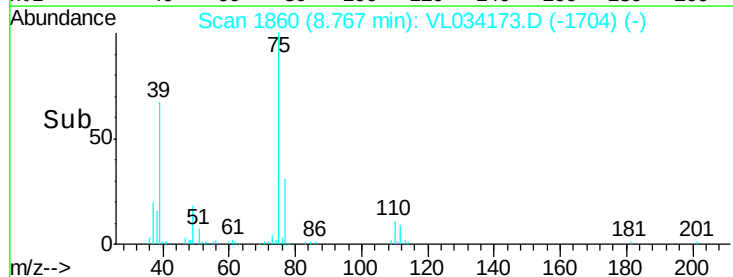
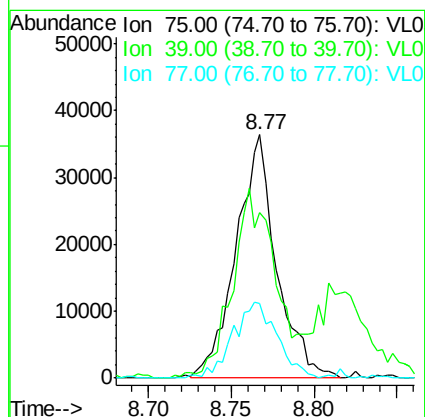
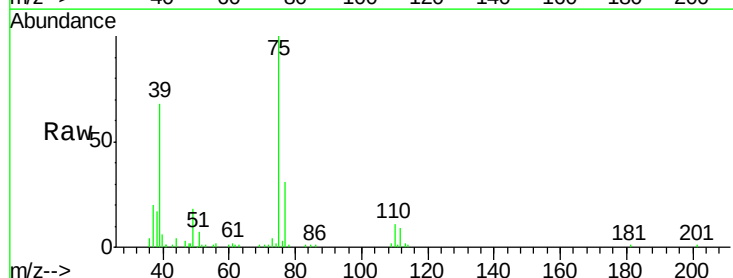
Tgt Ion: 75 Resp: 61636

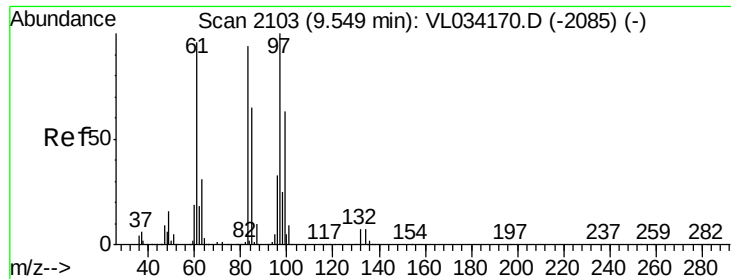
Ion Ratio Lower Upper

75 100

39 65.7 65.0 97.4

77 29.4 24.5 36.7





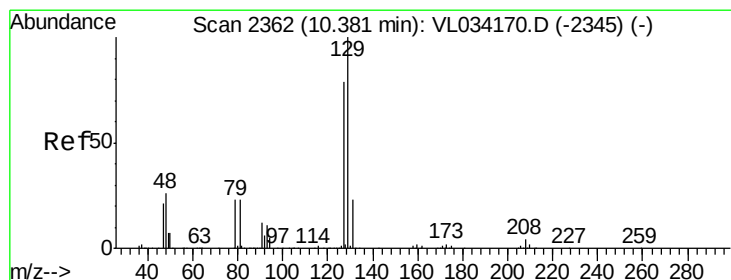
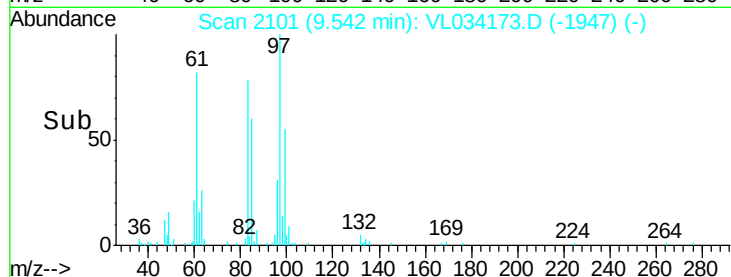
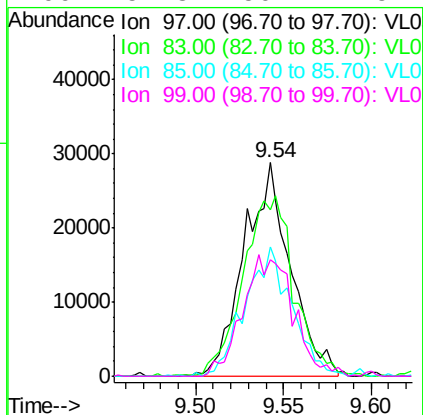
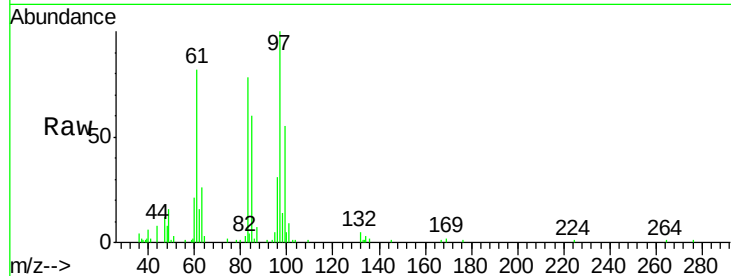
#47
 1,1,2-Trichloroethane
 Concen: 0.548 ppbv m
 RT: 9.54 min Scan# 2101
 Delta R.T. -0.01 min
 Lab File: VL034173.D
 Acq: 17 Sep 2019 6:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		52819		
83	77.7	75.3	112.9		
85	60.2	52.1	78.1		
99	54.8	50.2	75.2		

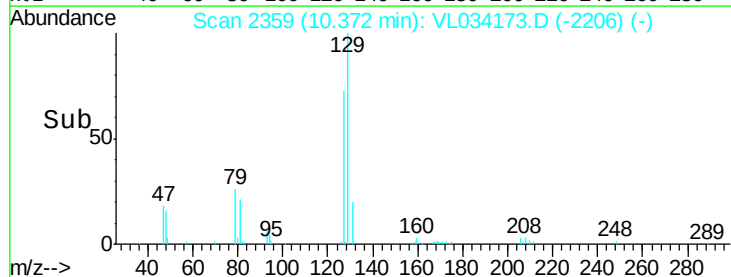
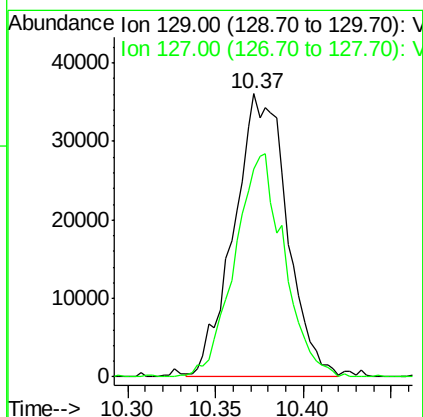
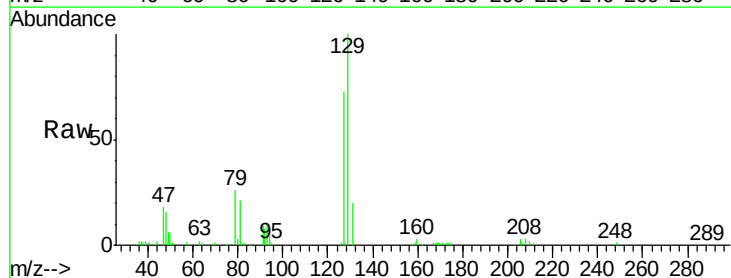
Manual Integrations
 APPROVED

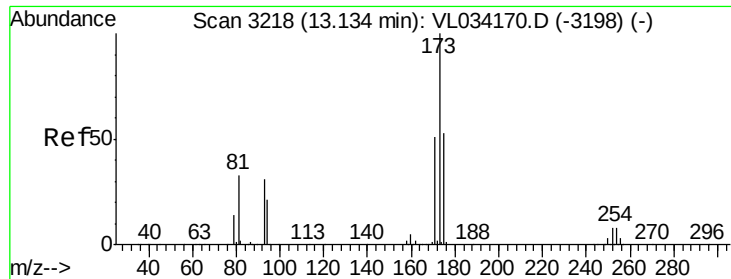
MMDadoda
 9/20/2019 12:44:00 AM



#48
 Dibromochloromethane
 Concen: 0.520 ppbv m
 RT: 10.37 min Scan# 2359
 Delta R.T. -0.01 min
 Lab File: VL034173.D
 Acq: 17 Sep 2019 6:09

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		75810		
127	0.0	39.2	117.6		





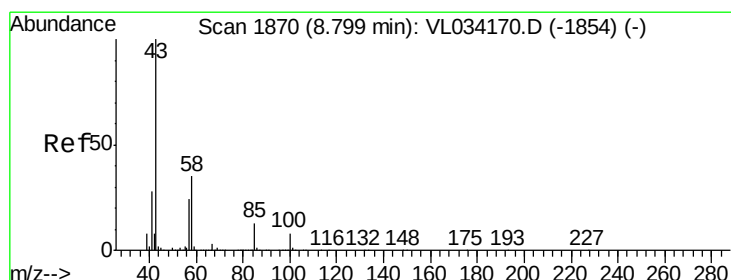
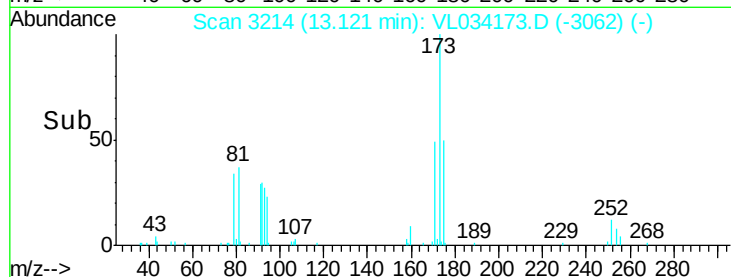
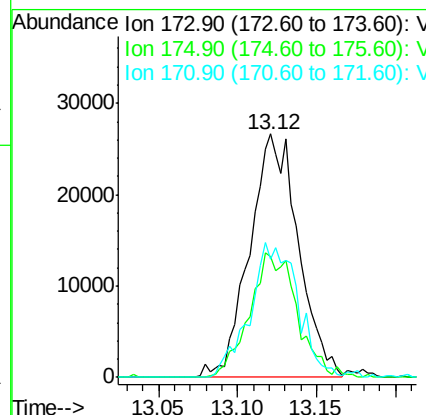
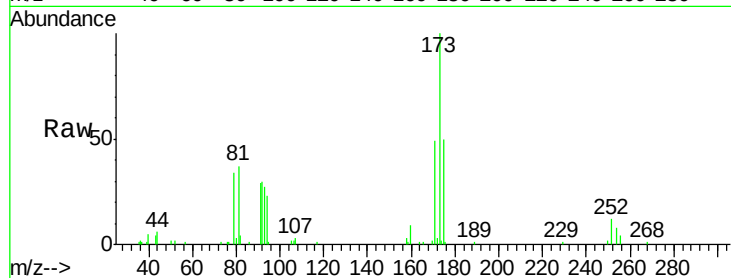
#49
Bromoform
Concen: 0.447 ppbv m
RT: 13.12 min Scan# 3214
Delta R.T. -0.01 min
Lab File: VL034173.D
Acq: 17 Sep 2019 6:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
173	100		
175	50.1	40.3	60.5
171	54.8	42.0	63.0

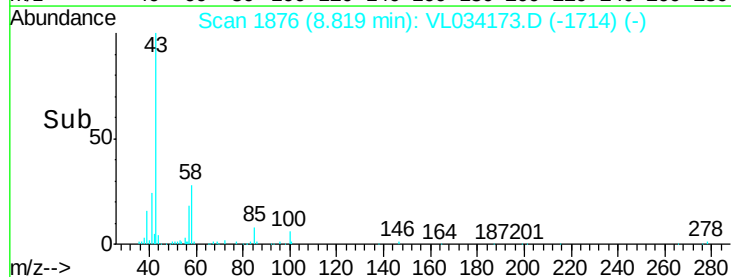
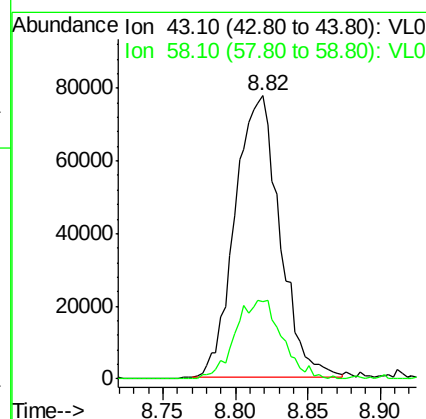
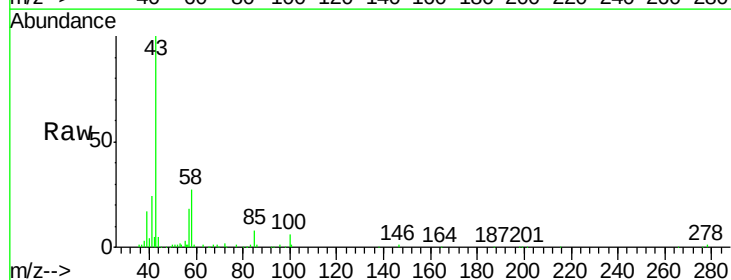
Manual Integrations
APPROVED

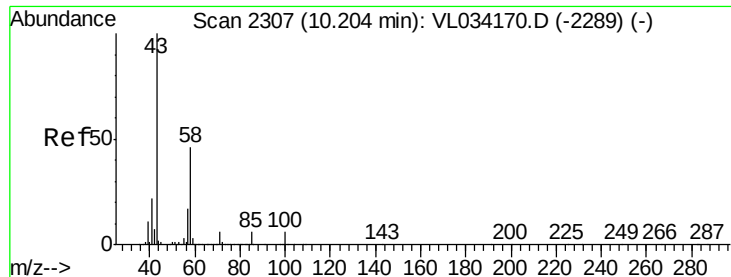
MMDadoda
9/20/2019 12:44:00 AM



#50
4-Methyl-2-Pentanone
Concen: 0.519 ppbv
RT: 8.82 min Scan# 1876
Delta R.T. 0.02 min
Lab File: VL034173.D
Acq: 17 Sep 2019 6:09

Tgt Ion	Ratio	Lower	Upper
43	100		
58	29.3	27.6	41.4





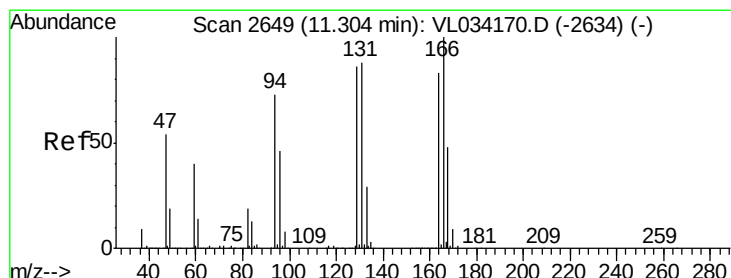
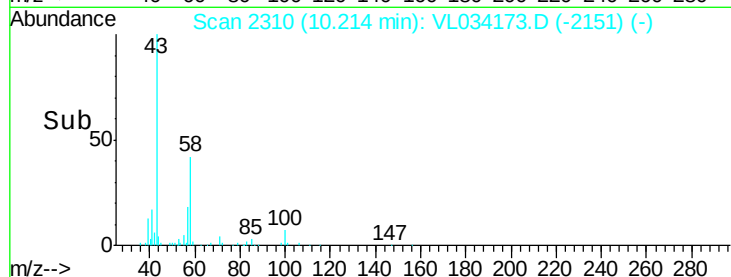
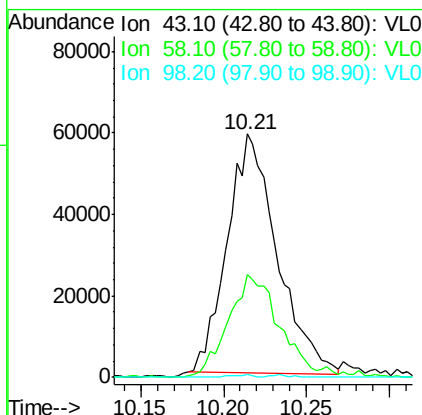
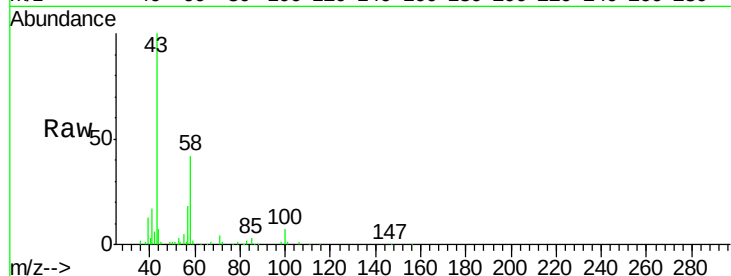
#51
2-Hexanone
Concen: 0.445 ppbv
RT: 10.21 min Scan# 2310
Delta R.T. 0.01 min
Lab File: VL034173.D
Acq: 17 Sep 2019 6:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
43	100		
58	45.2	36.2	54.4
98	0.9	0.2	0.2#

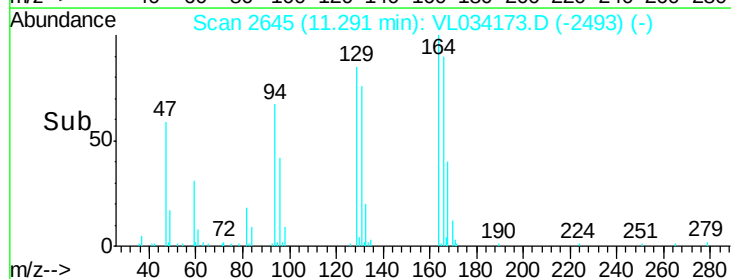
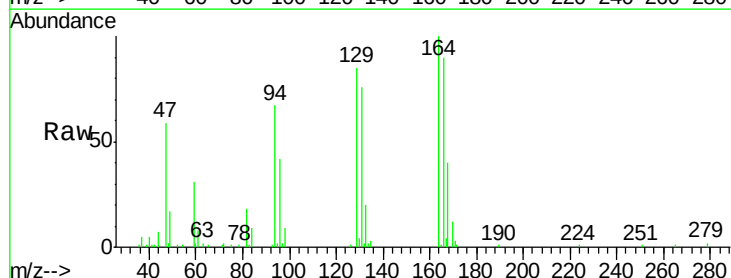
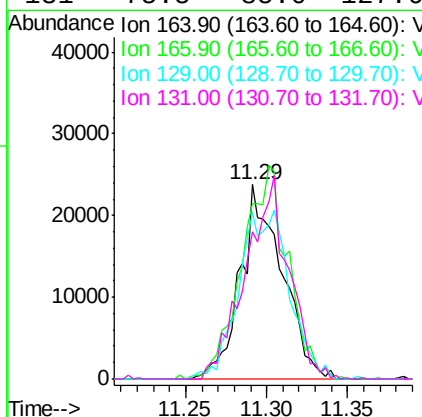
Manual Integrations
APPROVED

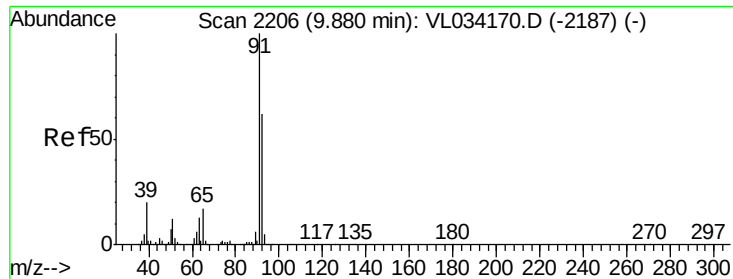
MMDadoda
9/20/2019 12:44:00 AM



#52
Tetrachloroethene
Concen: 0.490 ppbv m
RT: 11.29 min Scan# 2645
Delta R.T. -0.01 min
Lab File: VL034173.D
Acq: 17 Sep 2019 6:09

Tgt Ion	Ratio	Lower	Upper
164	100		
166	90.2	96.7	145.1#
129	85.4	82.8	124.2
131	75.5	85.0	127.6#





#53

Toluene

Concen: 0.491 ppbv

RT: 9.87 min Scan# 2204

Delta R.T. -0.01 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 133901

Ion Ratio Lower Upper

91 100

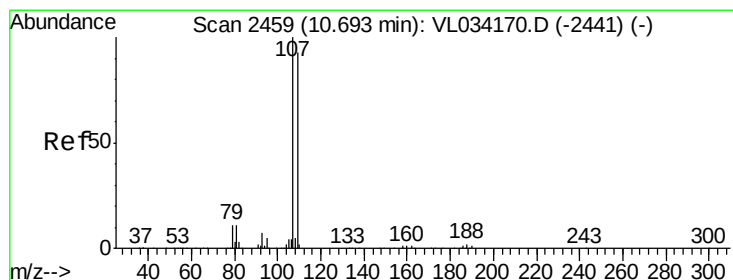
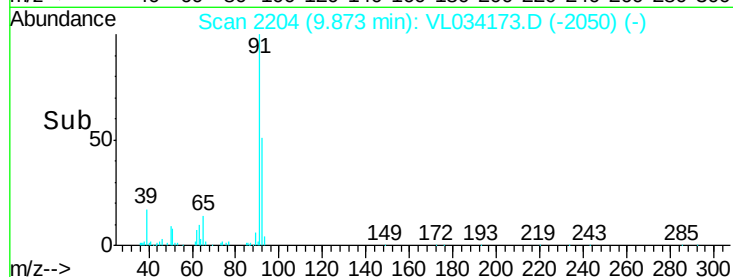
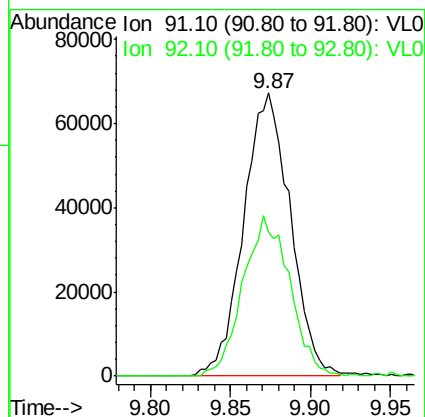
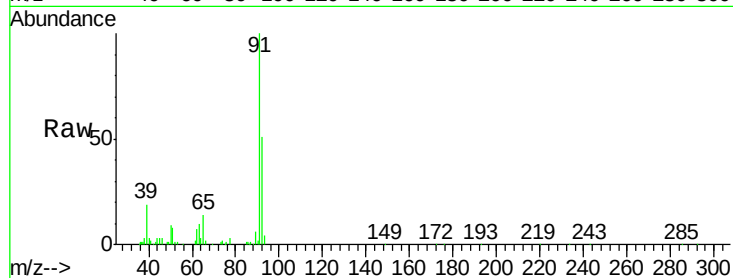
92 56.7 49.0 73.6

Manual Integrations

APPROVED

MMDadoda

9/20/2019 12:44:00 AM



#54

1,2-Dibromoethane

Concen: 0.502 ppbv m

RT: 10.68 min Scan# 2456

Delta R.T. -0.01 min

Lab File: VL034173.D

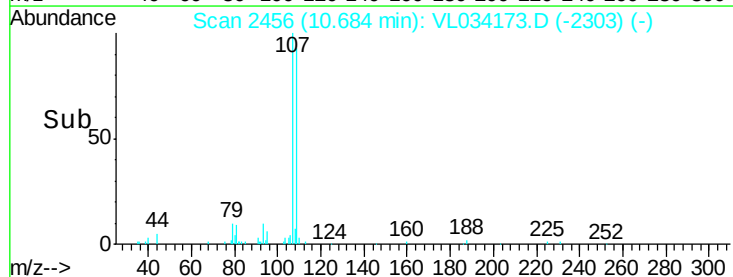
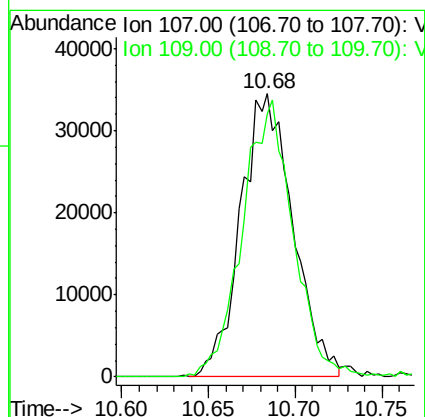
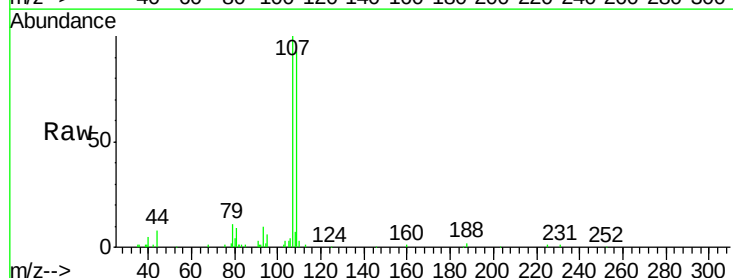
Acq: 17 Sep 2019 6:09

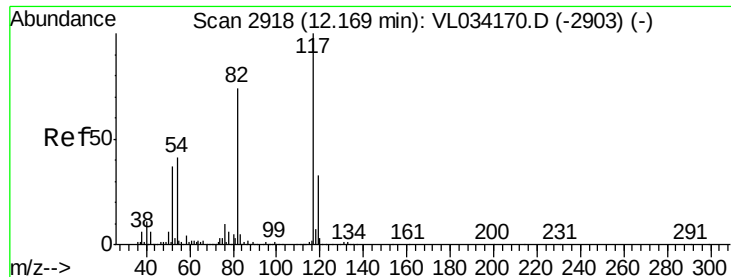
Tgt Ion: 107 Resp: 72312

Ion Ratio Lower Upper

107 100

109 92.7 74.5 111.7





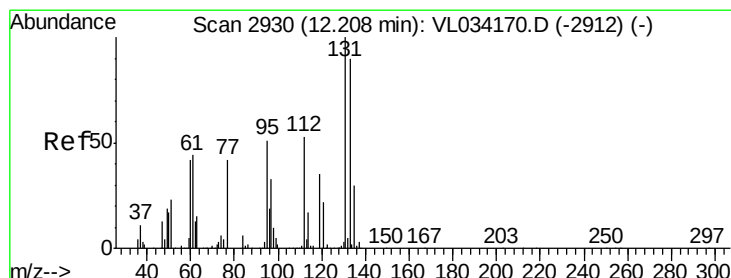
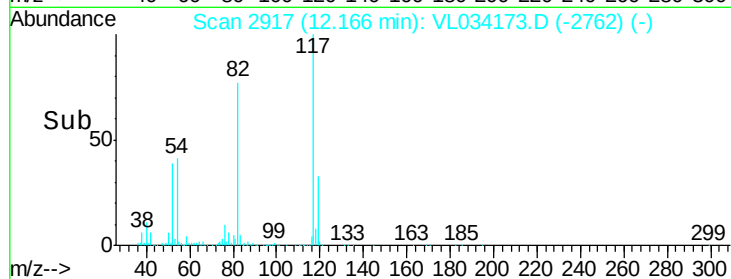
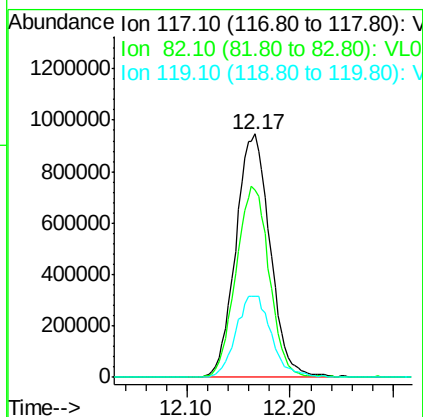
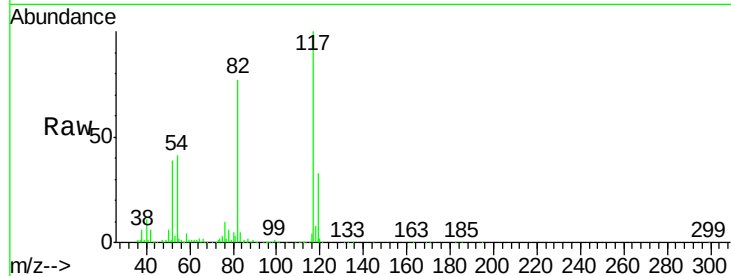
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.17 min Scan# 2917
Delta R.T. -0.00 min
Lab File: VL034173.D
Acq: 17 Sep 2019 6:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
117	100		
82	76.5	58.2	87.4
119	34.7	23.7	35.5

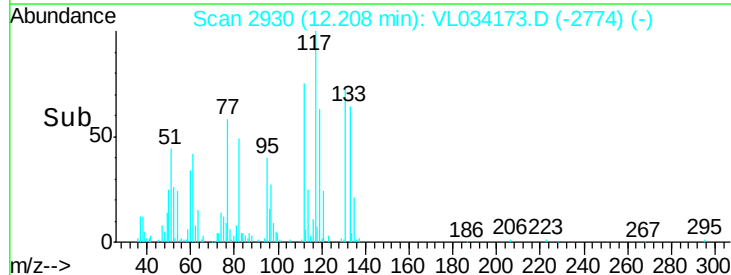
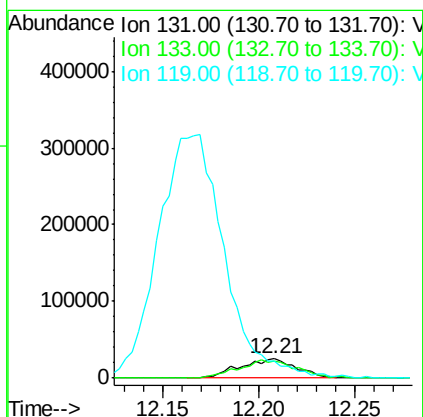
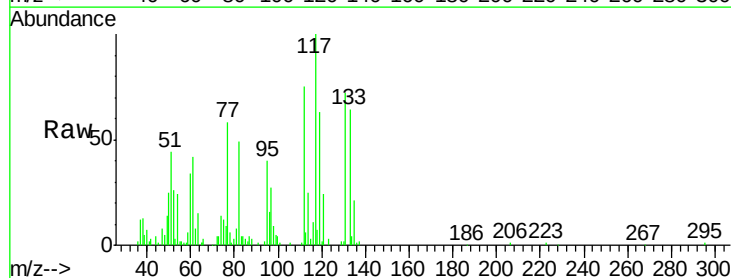
Manual Integrations
APPROVED

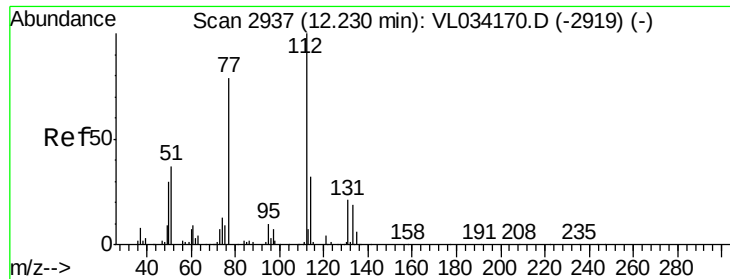
MMDadoda
9/20/2019 12:44:00 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 0.543 ppbv m
RT: 12.21 min Scan# 2930
Delta R.T. 0.00 min
Lab File: VL034173.D
Acq: 17 Sep 2019 6:09

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.6	75.1	112.7
119	0.0	47.4	71.0#





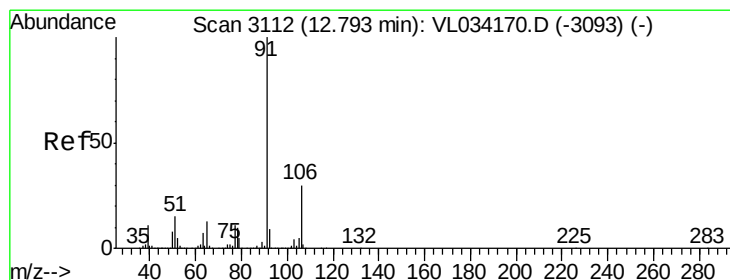
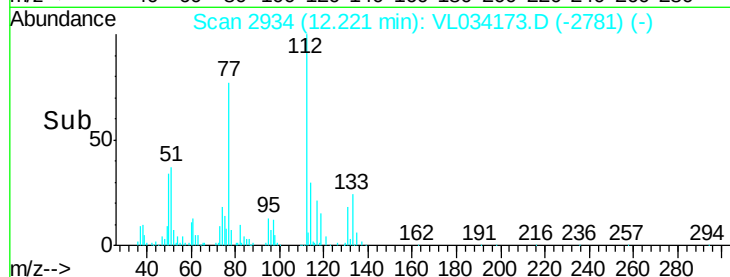
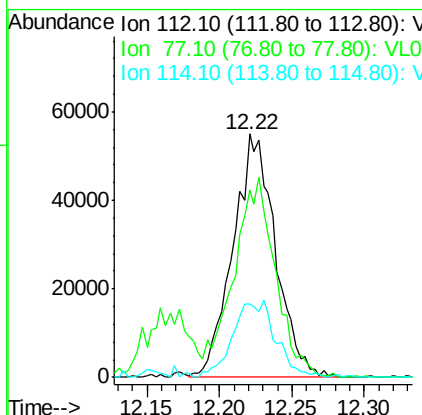
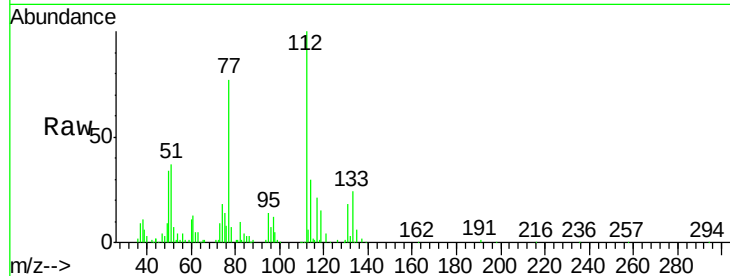
#57
Chlorobenzene
Concen: 0.592 ppbv
RT: 12.22 min Scan# 2934
Delta R.T. -0.01 min
Lab File: VL034173.D
Acq: 17 Sep 2019 6:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
112	100		
77	76.4	64.3	96.5
114	28.9	28.9	35.3

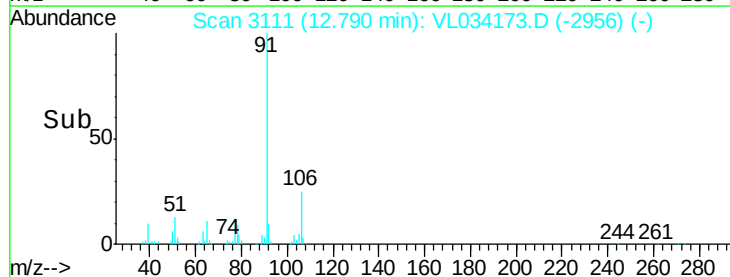
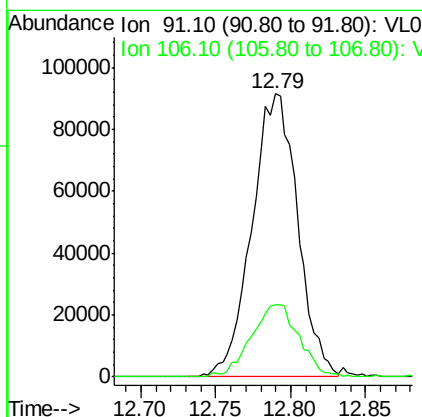
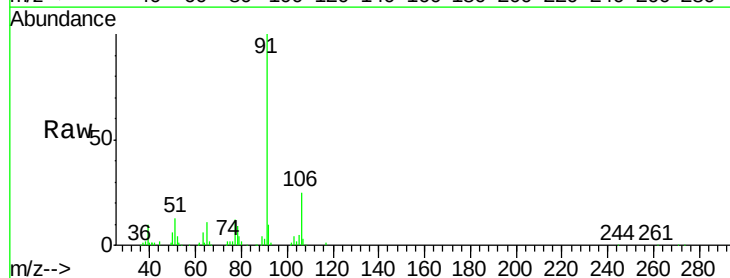
Manual Integrations
APPROVED

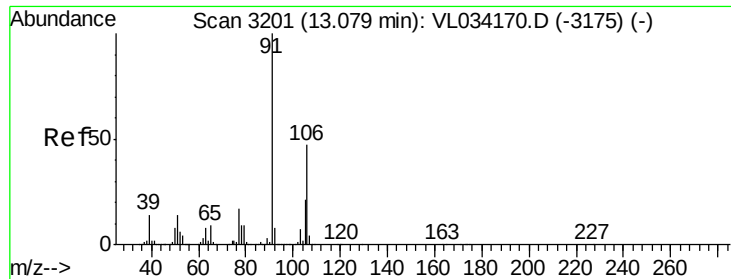
MMDadoda
9/20/2019 12:44:00 AM



#58
Ethyl Benzene
Concen: 0.541 ppbv
RT: 12.79 min Scan# 3111
Delta R.T. -0.00 min
Lab File: VL034173.D
Acq: 17 Sep 2019 6:09

Tgt Ion	Ratio	Lower	Upper
91	100		
106	25.4	24.2	36.4





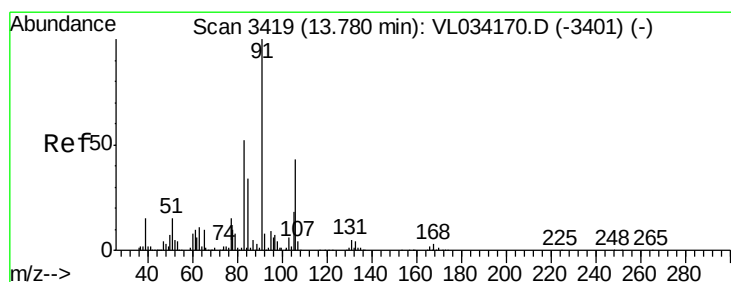
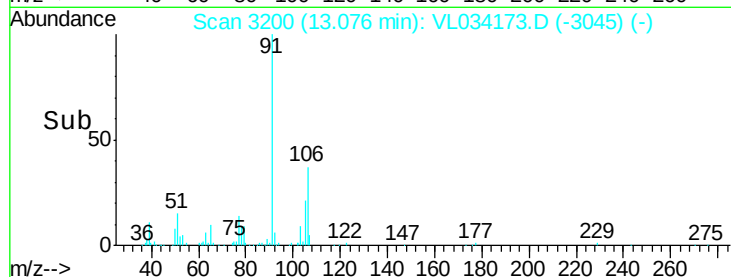
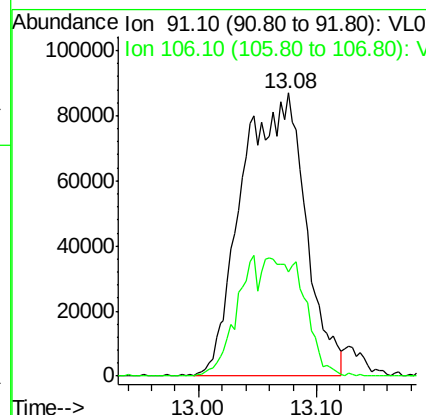
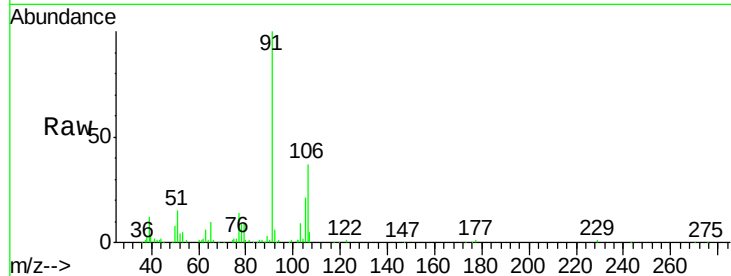
#59
m/p-Xylene
Concen: 1.095 ppbv m
RT: 13.08 min Scan# 3200
Delta R.T. -0.00 min
Lab File: VL034173.D
Acq: 17 Sep 2019 6:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 91 Resp: 321403
Ion Ratio Lower Upper
91 100
106 0.0 35.5 53.3#

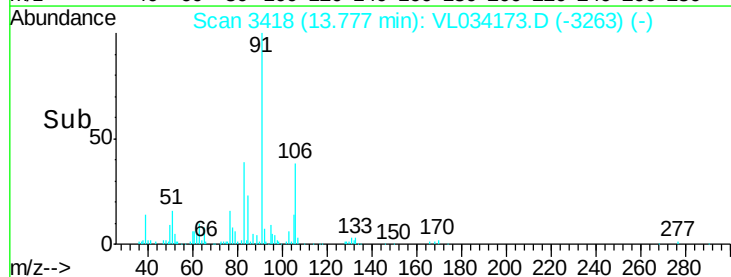
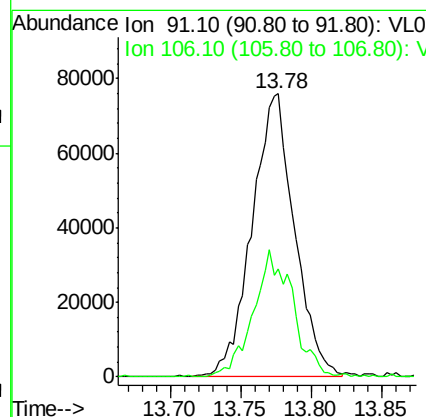
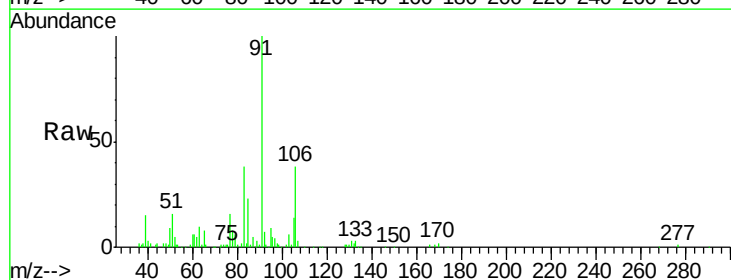
Manual Integrations
APPROVED

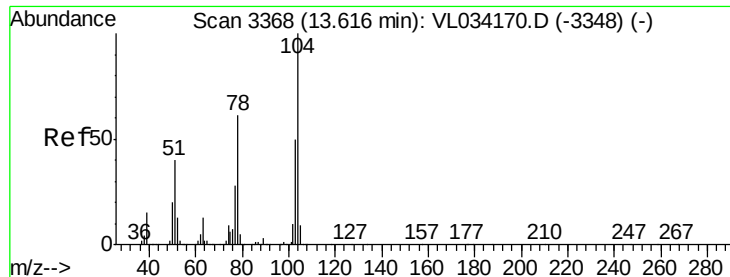
MMDadoda
9/20/2019 12:44:00 AM



#60
o-Xylene
Concen: 0.547 ppbv
RT: 13.78 min Scan# 3418
Delta R.T. -0.00 min
Lab File: VL034173.D
Acq: 17 Sep 2019 6:09

Tgt Ion: 91 Resp: 160286
Ion Ratio Lower Upper
91 100
106 42.3 21.2 63.6





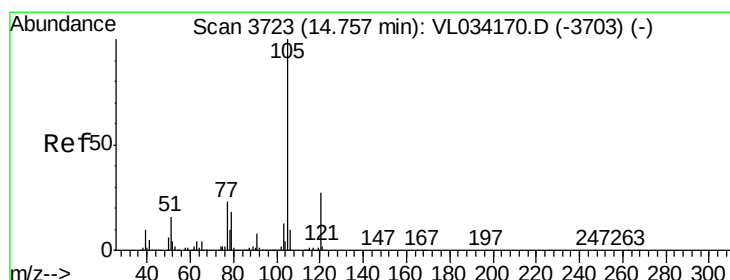
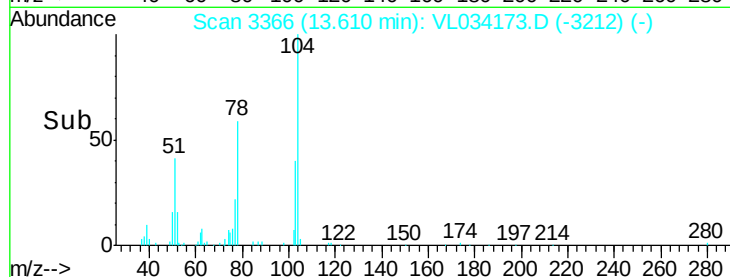
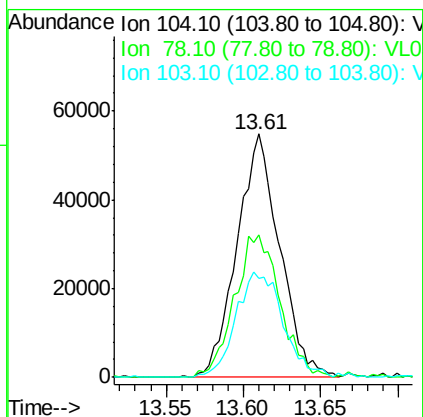
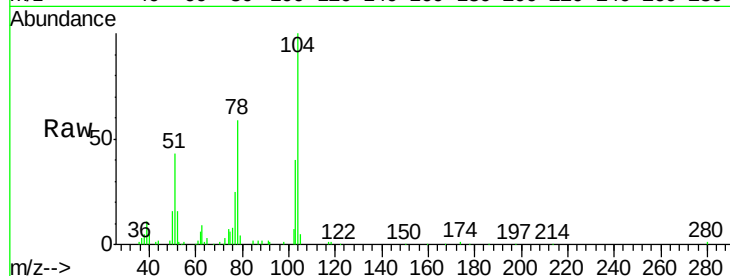
#61
Stvrene
Concen: 0.484 ppbv
RT: 13.61 min Scan# 3366
Delta R.T. -0.01 min
Lab File: VL034173.D
Acq: 17 Sep 2019 6:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
104	100		
78	63.1	49.7	74.5
103	48.0	38.4	57.6

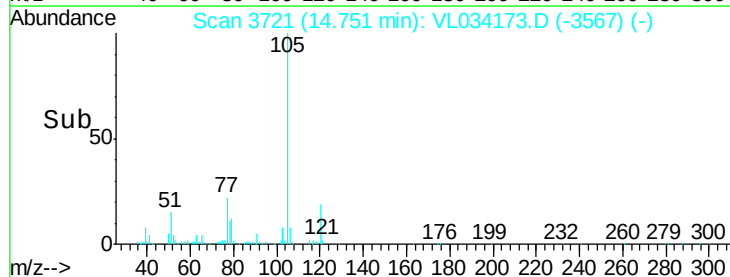
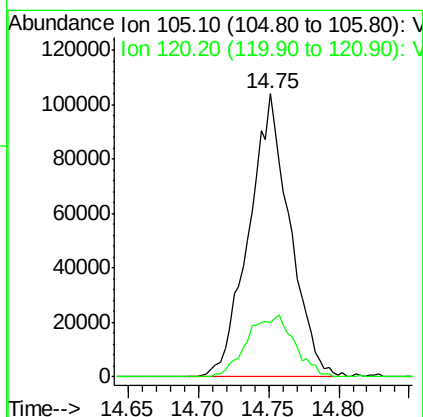
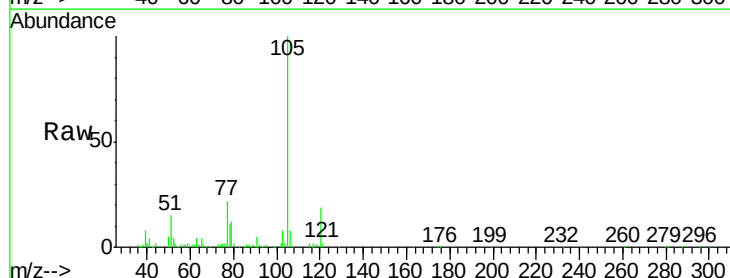
Manual Integrations
APPROVED

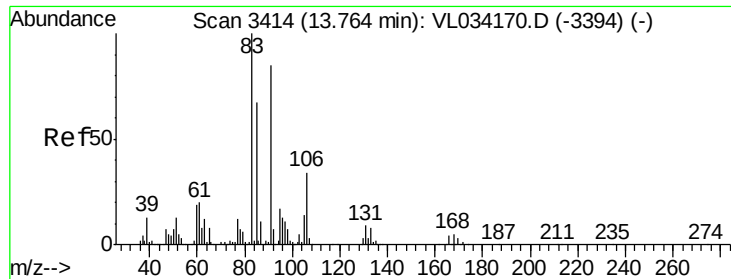
MMDadoda
9/20/2019 12:44:00 AM



#62
Isopropylbenzene
Concen: 0.554 ppbv
RT: 14.75 min Scan# 3721
Delta R.T. -0.01 min
Lab File: VL034173.D
Acq: 17 Sep 2019 6:09

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.1	20.7	31.1





#63

1,1,2,2-Tetrachloroethane

Concen: 0.525 ppbv

RT: 13.76 min Scan# 3414

Delta R.T. 0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA_L

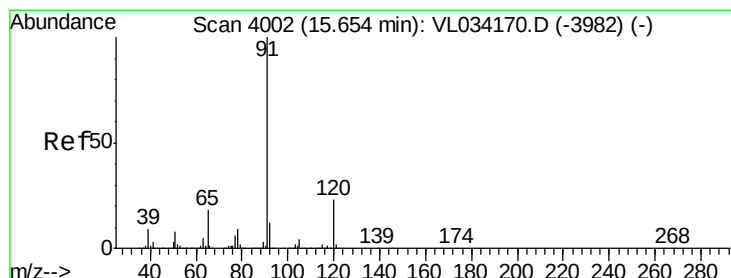
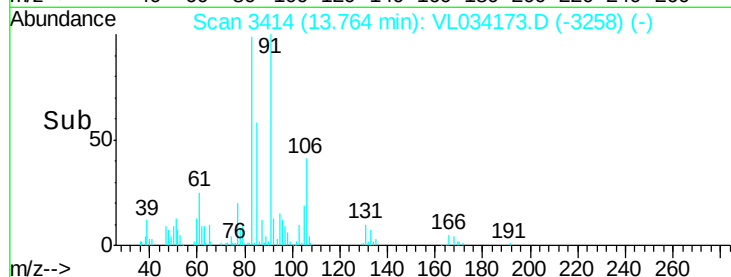
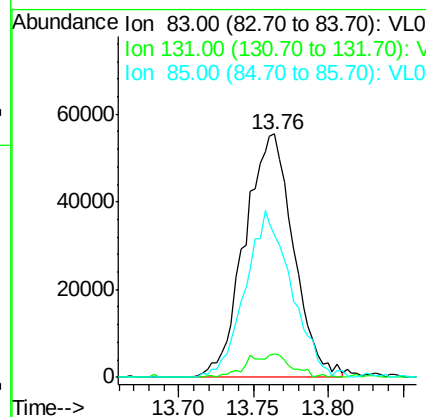
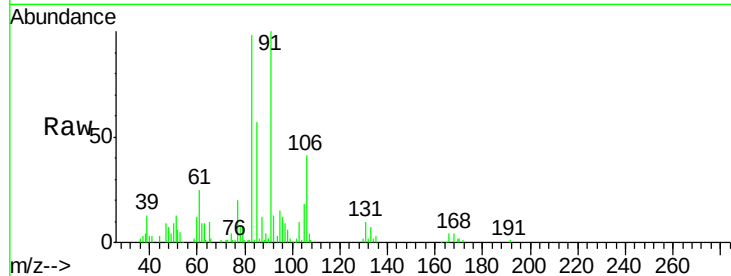
ClientSampleId :

VSTDIC0.5

Tot Ion:	83	Resp:	125423
Ion Ratio	Lower	Upper	
83	100		
131	8.8	4.3	12.8
85	65.6	32.8	98.4

Manual Integrations
APPROVED

MMDadoda
9/20/2019 12:44:00 AM



#64

n-propylbenzene

Concen: 0.537 ppbv m

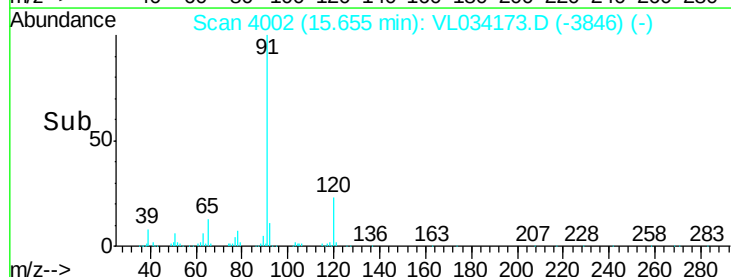
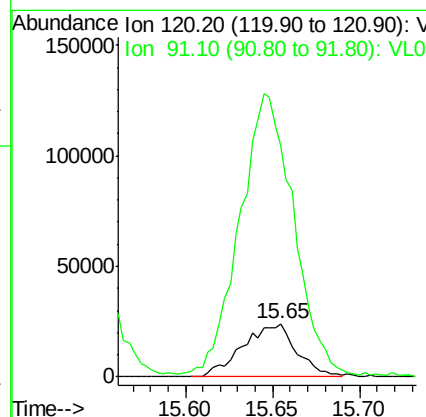
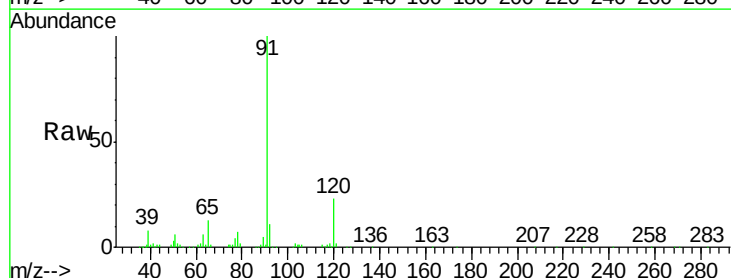
RT: 15.65 min Scan# 4002

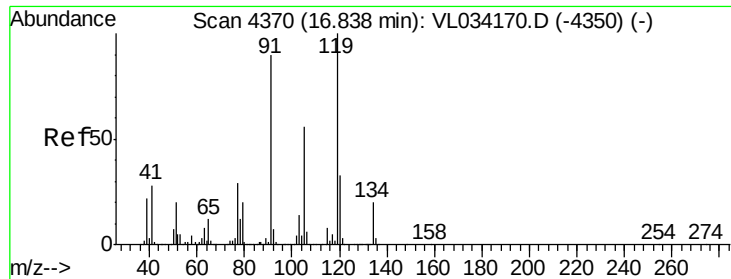
Delta R.T. 0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Tgt Ion:	120	Resp:	51310
Ion Ratio	Lower	Upper	
120	100		
91	0.0	378.2	567.2#





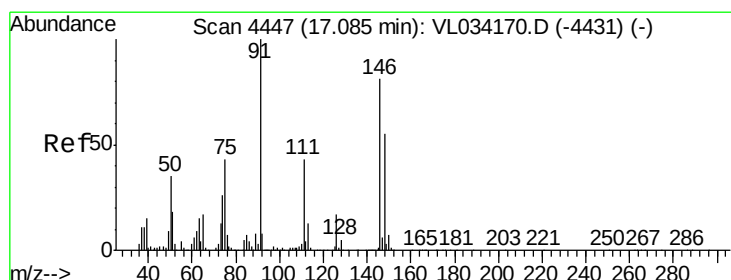
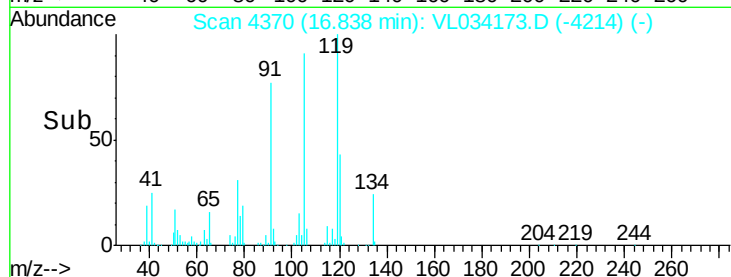
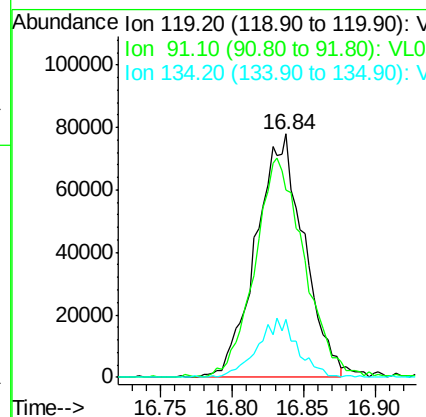
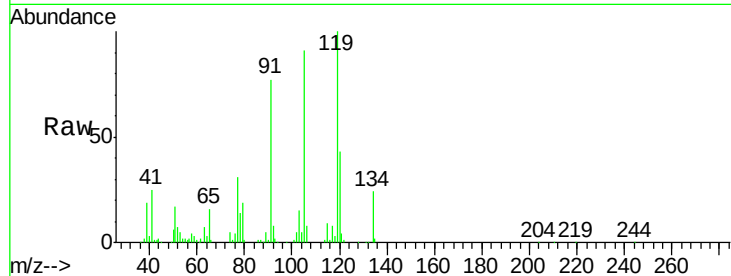
#65
tert-Butylbenzene
Concen: 0.552 ppbv m
RT: 16.84 min Scan# 4370
Delta R.T. 0.00 min
Lab File: VL034173.D
Acq: 17 Sep 2019 6:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
119	100		
91	93.8	74.9	112.3
134	20.2	15.8	23.6

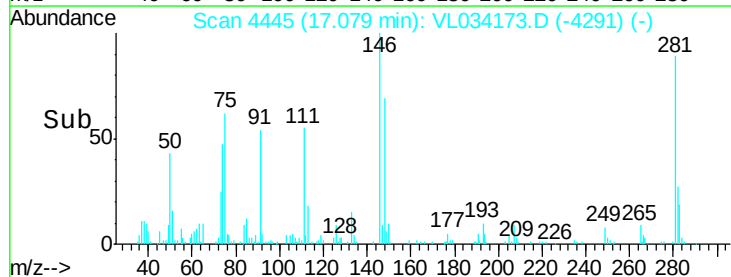
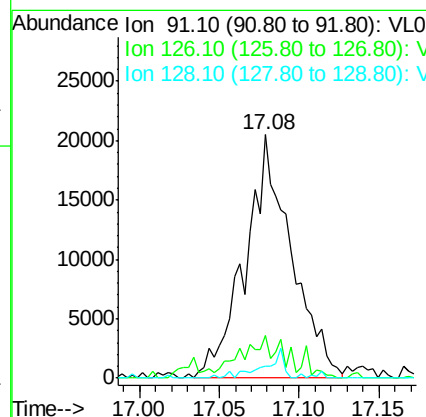
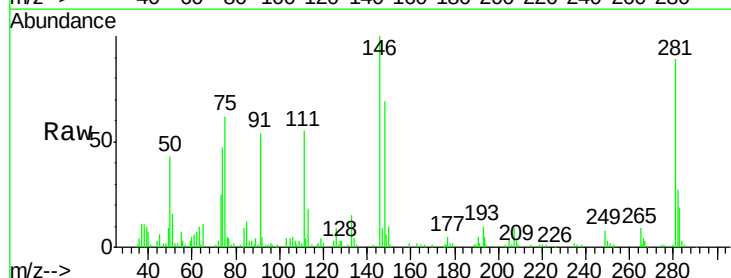
Manual Integrations
APPROVED

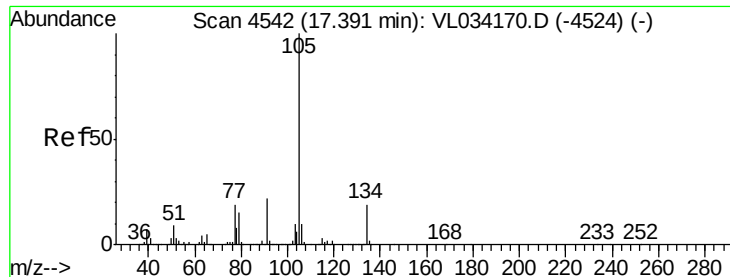
MMDadoda
9/20/2019 12:44:00 AM



#66
Benzyl Chloride
Concen: 0.347 ppbv m
RT: 17.08 min Scan# 4445
Delta R.T. -0.01 min
Lab File: VL034173.D
Acq: 17 Sep 2019 6:09

Tgt Ion	Ratio	Lower	Upper
91	100		
126	21.2	12.6	19.0#
128	5.5	4.0	6.0





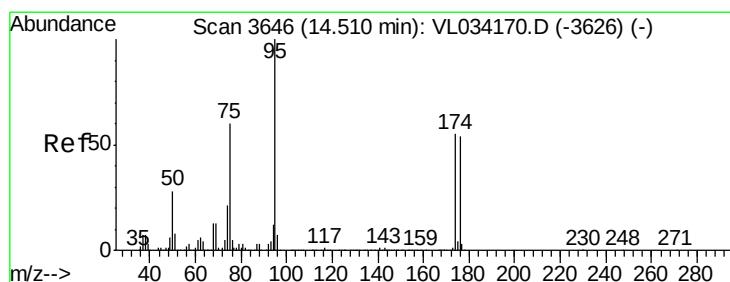
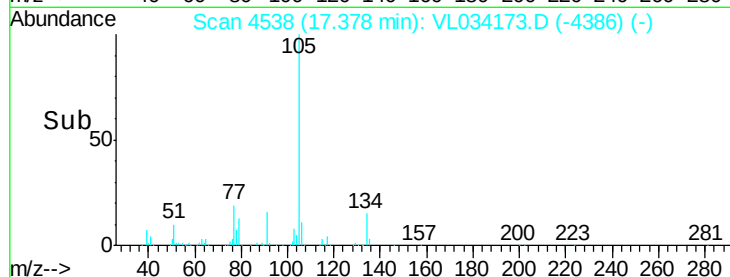
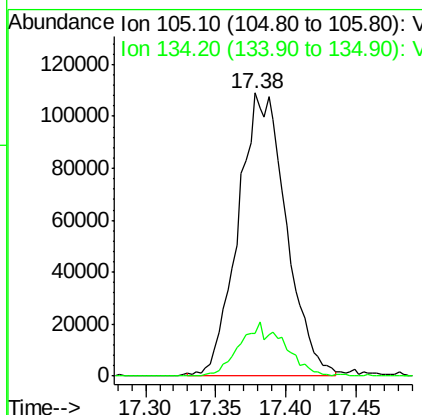
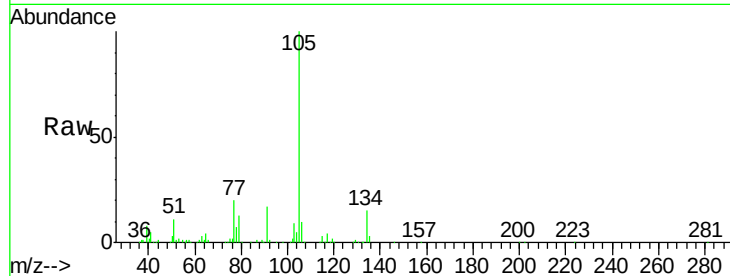
#67
 sec-Butylbenzene
 Concen: 0.545 ppbv m
 RT: 17.38 min Scan# 4538
 Delta R.T. -0.01 min
 Lab File: VL034173.D
 Acq: 17 Sep 2019 6:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
105	100		
134	0.0	14.6	22.0#

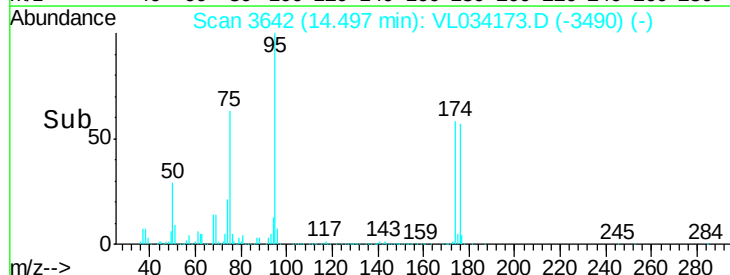
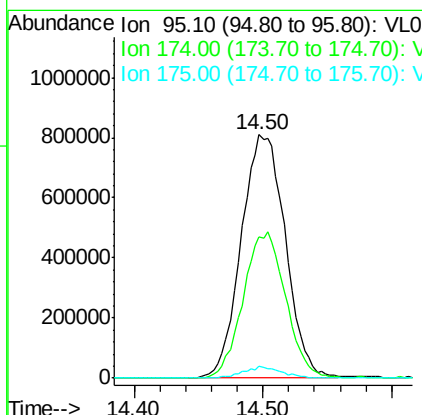
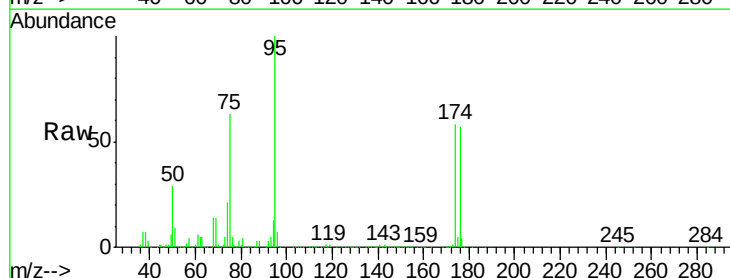
Manual Integrations
 APPROVED

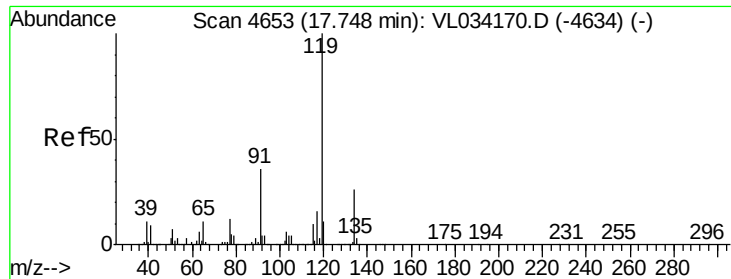
MMDadoda
 9/20/2019 12:44:00 AM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.665 ppbv
 RT: 14.50 min Scan# 3642
 Delta R.T. -0.01 min
 Lab File: VL034173.D
 Acq: 17 Sep 2019 6:09

Tgt Ion	Ratio	Lower	Upper
95	100		
174	58.2	45.1	67.7
175	4.1	3.3	4.9





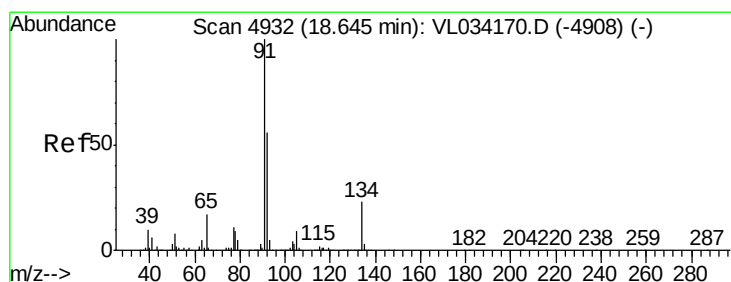
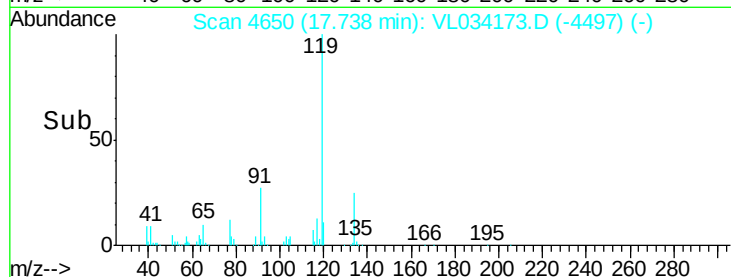
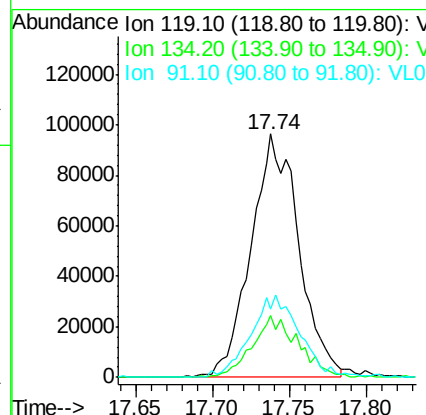
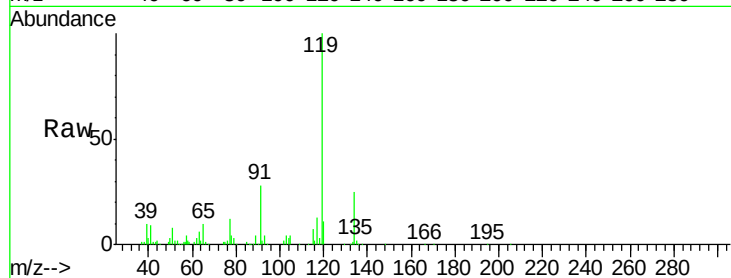
#69
 p-Isopropyltoluene
 Concen: 0.548 ppbv m
 RT: 17.74 min Scan# 4650
 Delta R.T. -0.01 min
 Lab File: VL034173.D
 Acq: 17 Sep 2019 6:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion:	119	Resp:	208108
Ion Ratio	Lower	Upper	
119	100		
134	24.4	20.6	30.8
91	35.1	27.6	41.4

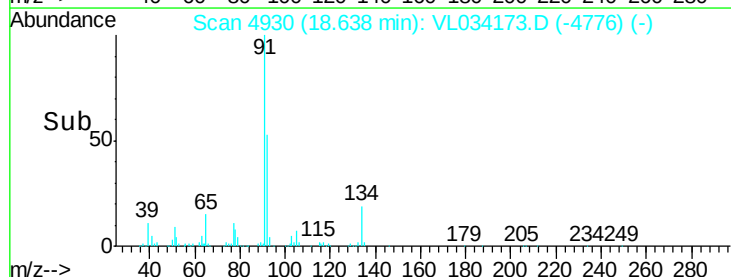
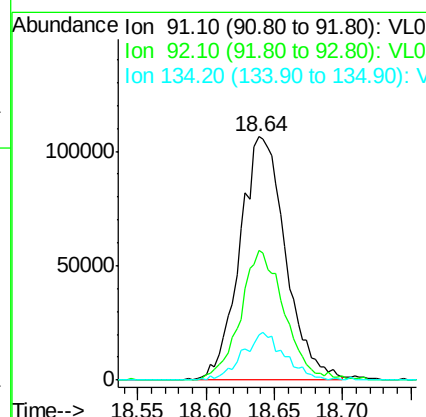
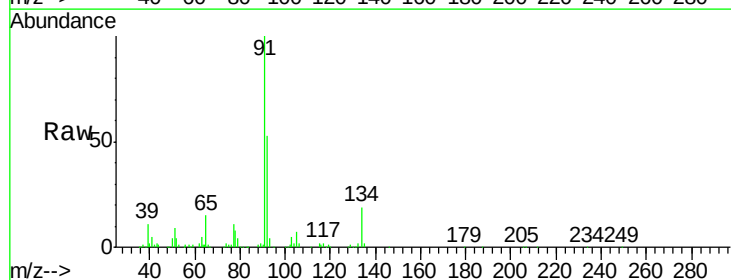
Manual Integrations
 APPROVED

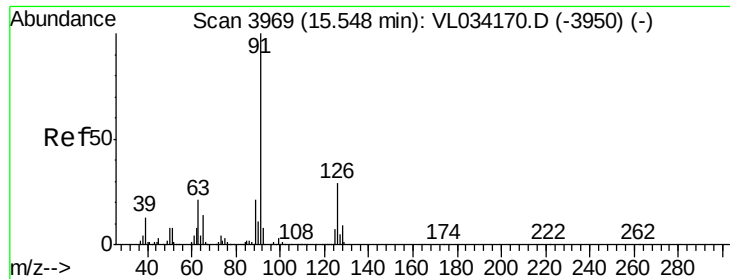
MMDadoda
 9/20/2019 12:44:00 AM



#70
 n-Butylbenzene
 Concen: 0.568 ppbv
 RT: 18.64 min Scan# 4930
 Delta R.T. -0.01 min
 Lab File: VL034173.D
 Acq: 17 Sep 2019 6:09

Tgt Ion:	91	Resp:	246767
Ion Ratio	Lower	Upper	
91	100		
92	51.8	44.8	67.2
134	18.3	17.3	25.9





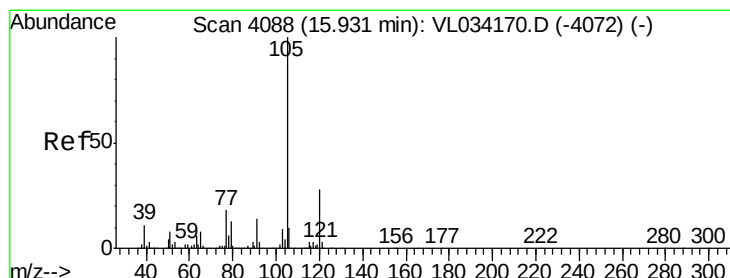
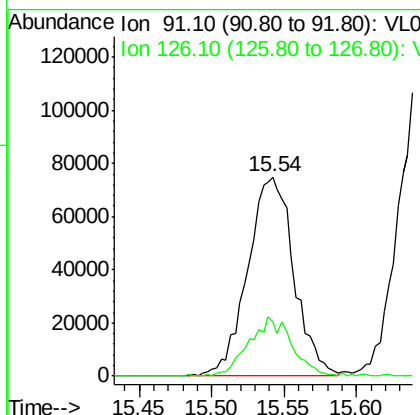
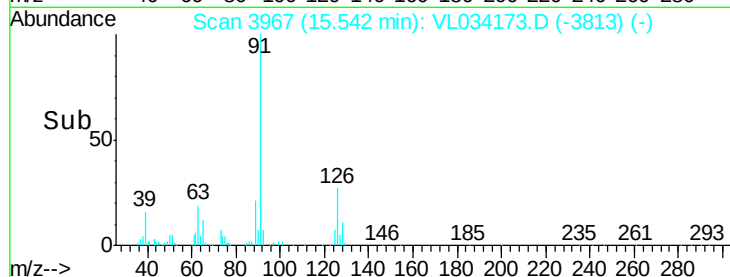
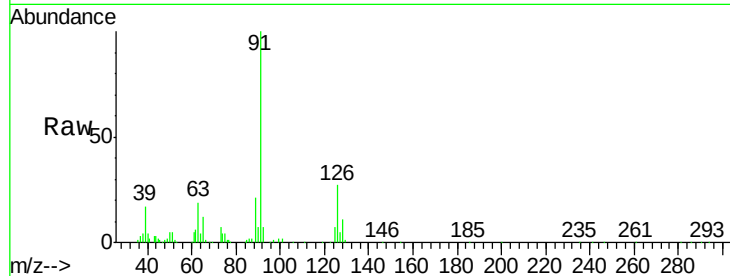
#71
 2-Chlorotoluene
 Concen: 0.532 ppbv
 RT: 15.54 min Scan# 3967
 Delta R.T. -0.01 min
 Lab File: VL034173.D
 Acq: 17 Sep 2019 6:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
91	100		
126	28.1	11.2	45.0

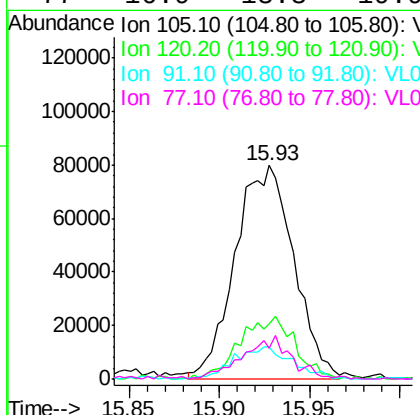
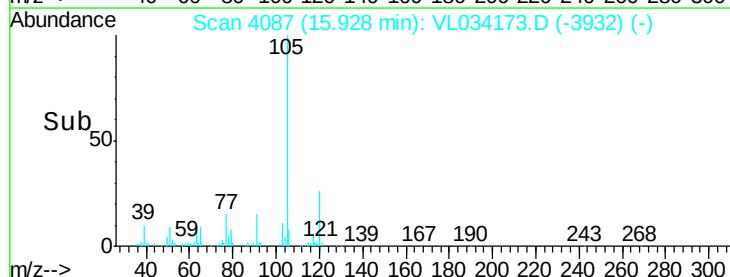
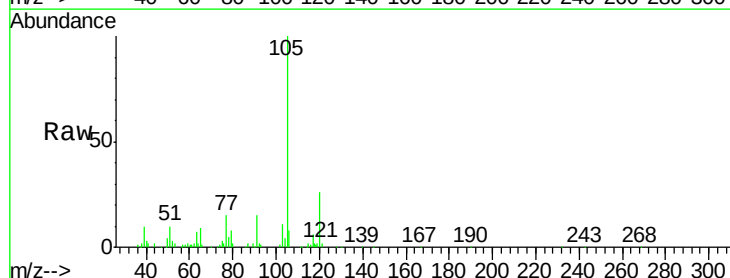
Manual Integrations
 APPROVED

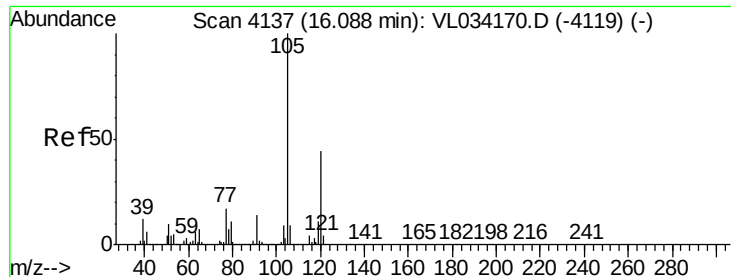
MMDadoda
 9/20/2019 12:44:00 AM



#72
 4-Ethyltoluene
 Concen: 0.543 ppbv m
 RT: 15.93 min Scan# 4087
 Delta R.T. -0.00 min
 Lab File: VL034173.D
 Acq: 17 Sep 2019 6:09

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.6	23.3	34.9
91	15.1	11.4	17.2
77	16.9	13.3	19.9





#73

1,3,5-Trimethylbenzene

Concen: 0.530 ppbv

RT: 16.09 min Scan# 4136

Delta R.T. -0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:105 Resp: 170296

Ion Ratio Lower Upper

105 100

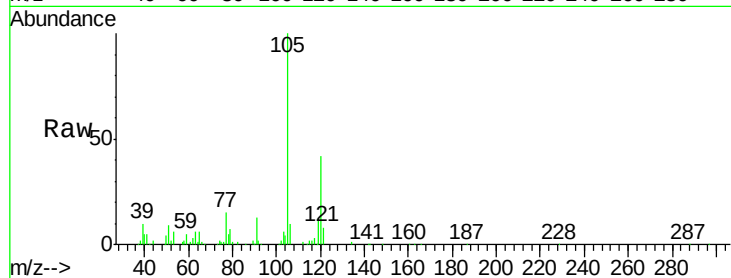
120 40.7 35.6 53.4

Manual Integrations

APPROVED

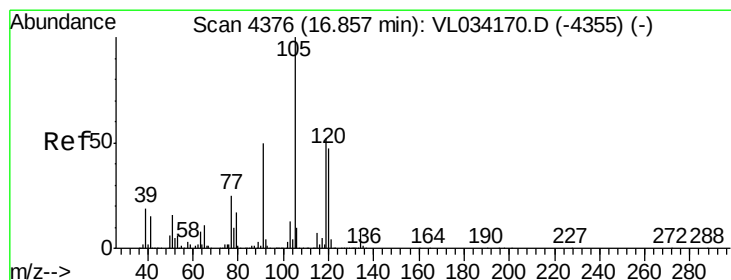
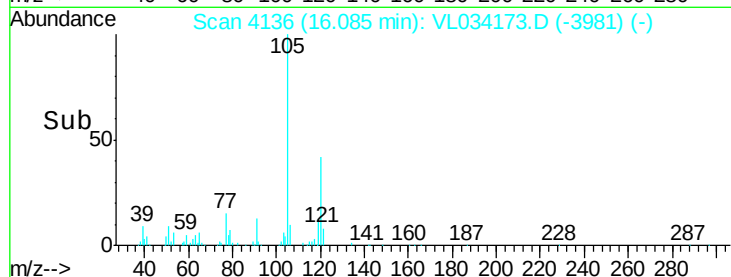
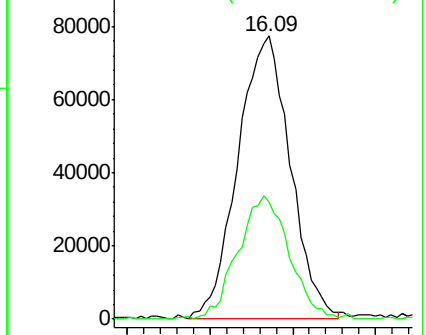
MMDadoda

9/20/2019 12:44:00 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.586 ppbv m

RT: 16.85 min Scan# 4375

Delta R.T. -0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Tgt Ion:105 Resp: 194674

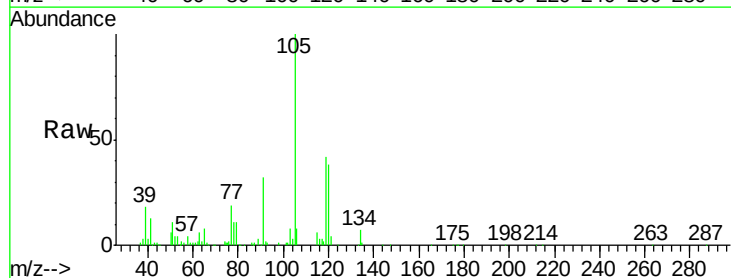
Ion Ratio Lower Upper

105 100

120 37.9 37.5 56.3

91 32.1 41.1 61.7#

77 19.3 19.9 29.9#

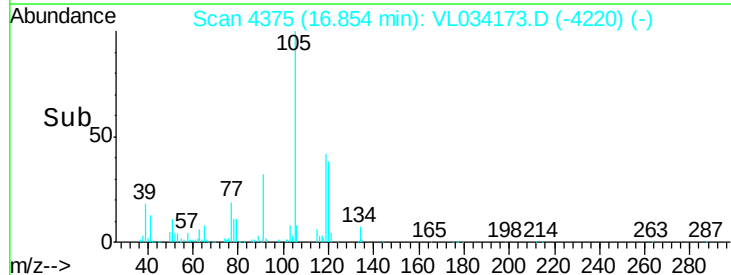
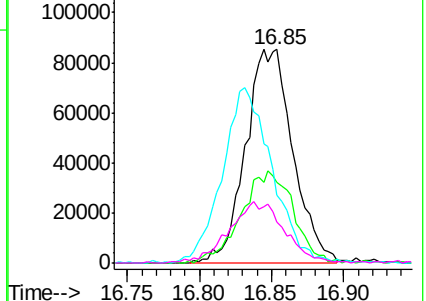


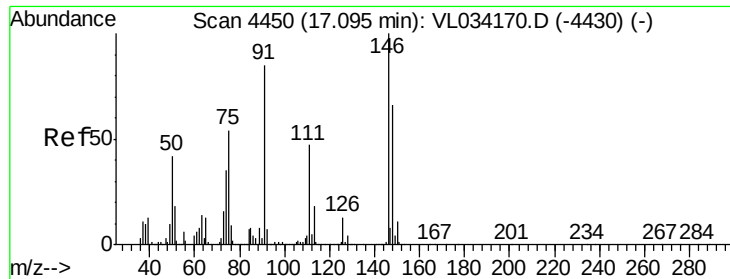
Abundance Ion 105.10 (104.80 to 105.80): V

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





#75

1,3-Dichlorobenzene

Concen: 0.575 ppbv m

RT: 17.09 min Scan# 4449

Delta R.T. -0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA_L

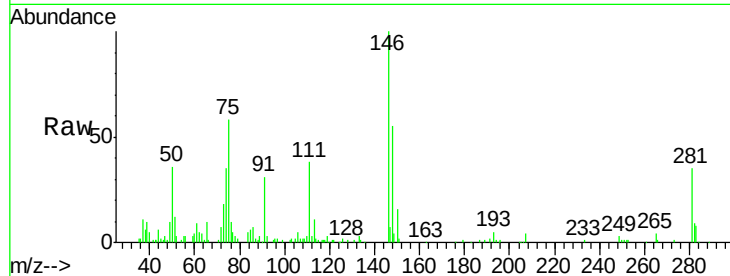
ClientSampleId :

VSTDIC0.5

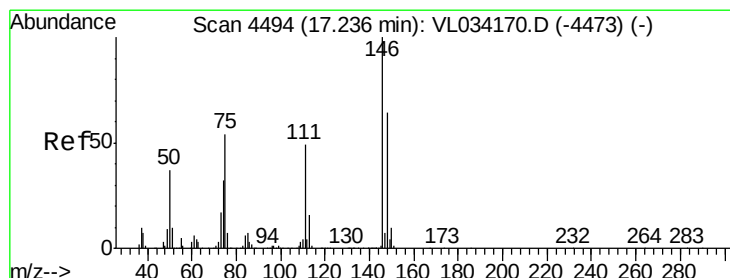
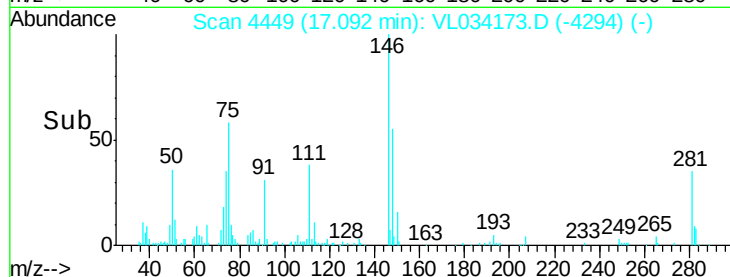
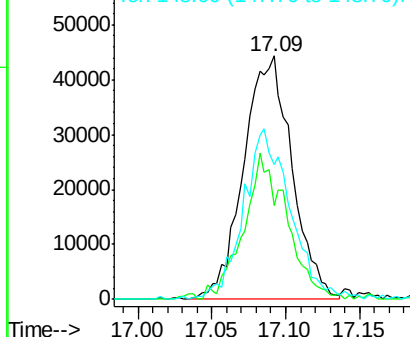
Tot Ion:	146	Resp:	101215
Ion Ratio	Lower	Upper	
146	100		
111	0.0	25.9	77.8#
148	0.0	32.6	97.7#

Manual Integrations
APPROVED

MMDadoda
9/20/2019 12:44:00 AM



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 0.567 ppbv m

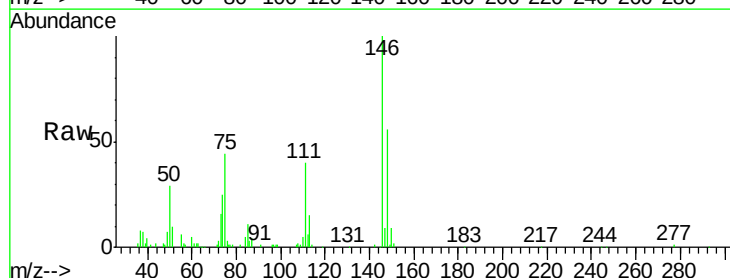
RT: 17.23 min Scan# 4491

Delta R.T. -0.01 min

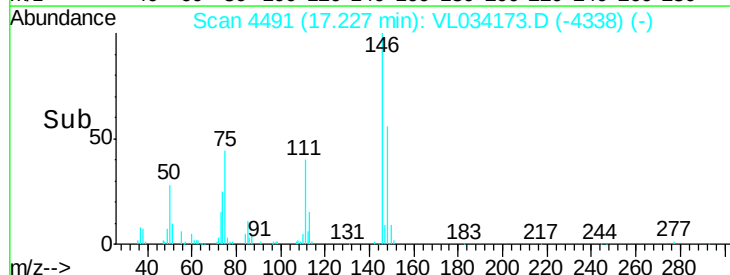
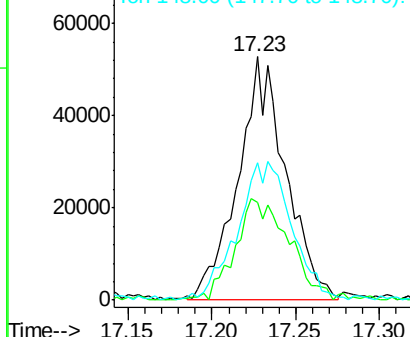
Lab File: VL034173.D

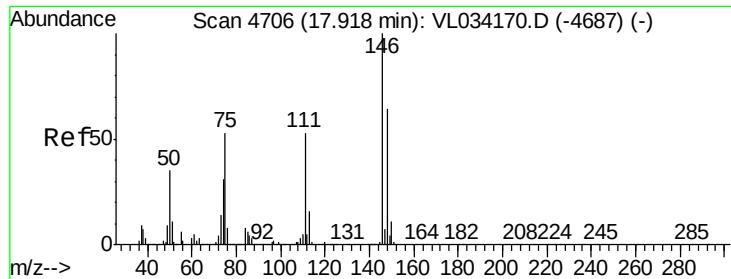
Acq: 17 Sep 2019 6:09

Tgt Ion:	146	Resp:	104388
Ion Ratio	Lower	Upper	
146	100		
111	0.0	24.6	74.0#
148	64.7	32.4	97.0



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V





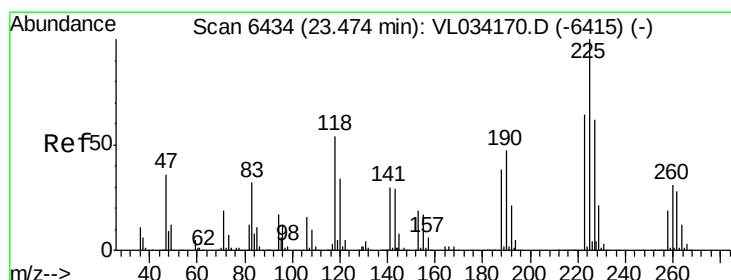
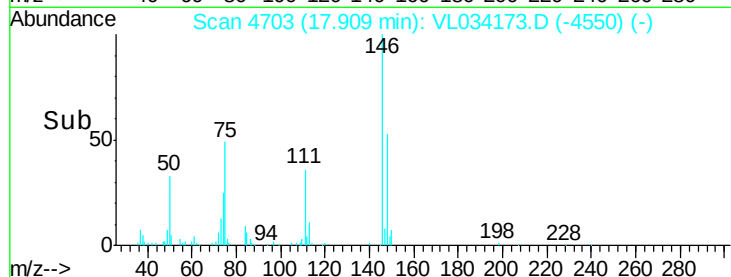
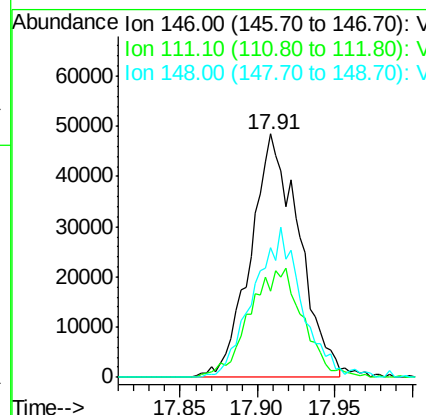
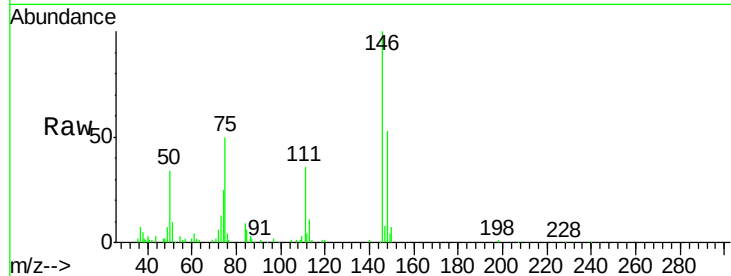
#77
 1,2-Dichlorobenzene
 Concen: 0.587 ppbv m
 RT: 17.91 min Scan# 4703
 Delta R.T. -0.01 min
 Lab File: VL034173.D
 Acq: 17 Sep 2019 6:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.6	26.1	78.3
148	61.6	31.9	95.9

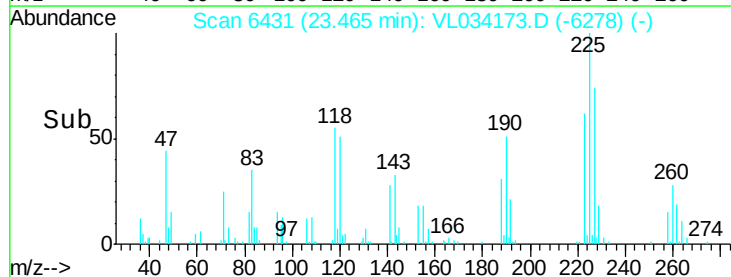
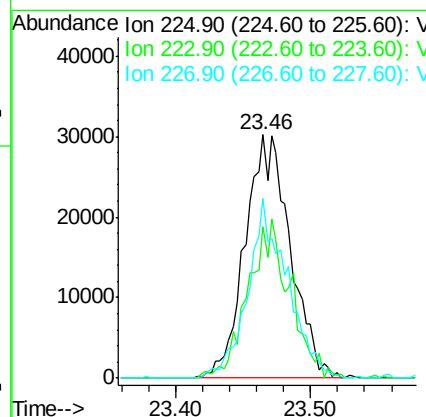
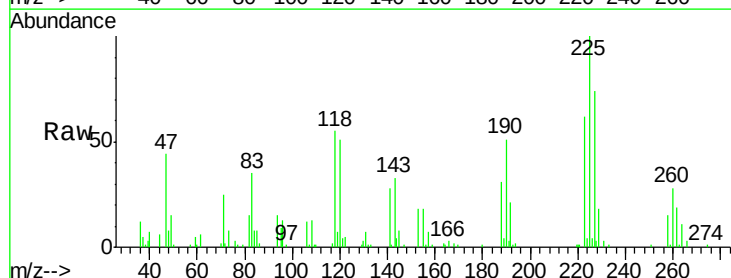
Manual Integrations
 APPROVED

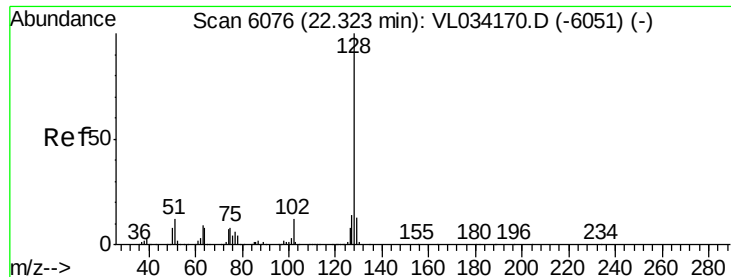
MMDadoda
 9/20/2019 12:44:00 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.579 ppbv m
 RT: 23.46 min Scan# 6431
 Delta R.T. -0.01 min
 Lab File: VL034173.D
 Acq: 17 Sep 2019 6:09

Tgt Ion	Ratio	Lower	Upper
225	100		
223	60.5	51.7	77.5
227	0.0	52.1	78.1#





#79

Naphthalene

Concen: 0.511 ppbv m

RT: 22.32 min Scan# 6076

Delta R.T. 0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA_L

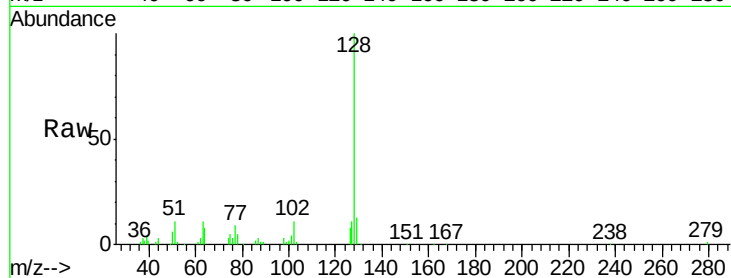
ClientSampleId :

VSTDIC0.5

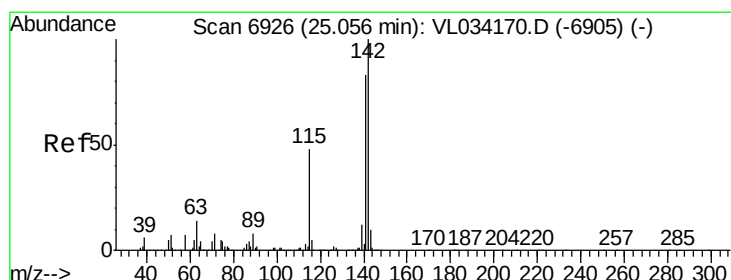
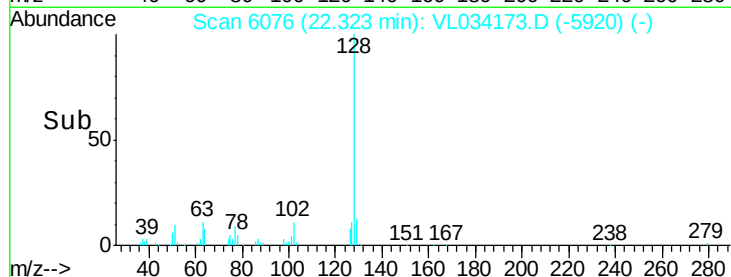
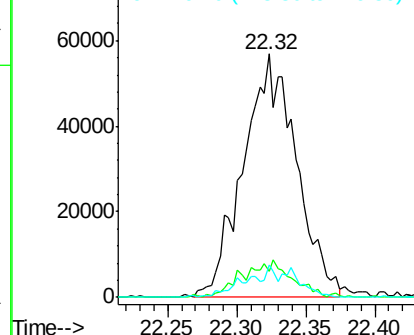
Tot Ion:	128	Resp:	151710
Ion Ratio	Lower	Upper	
128	100		
127	10.7	11.1	16.7#
129	13.3	10.2	15.4

Manual Integrations
APPROVED

MMDadoda
9/20/2019 12:44:00 AM



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.743 ppbv

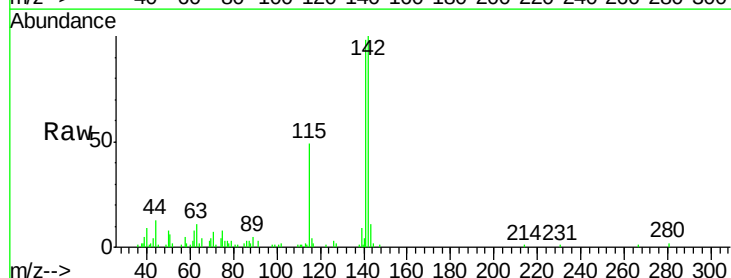
RT: 25.05 min Scan# 6925

Delta R.T. -0.00 min

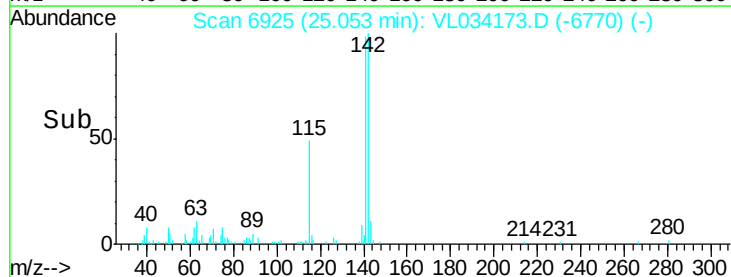
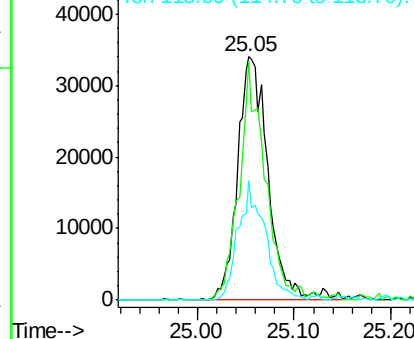
Lab File: VL034173.D

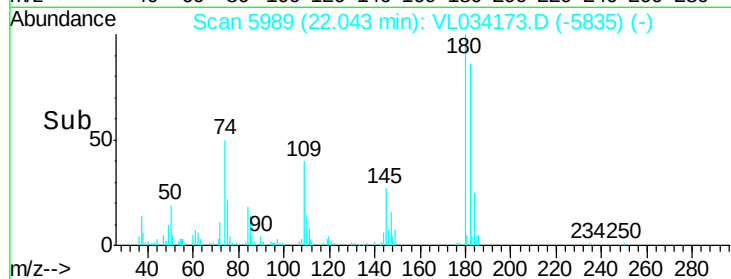
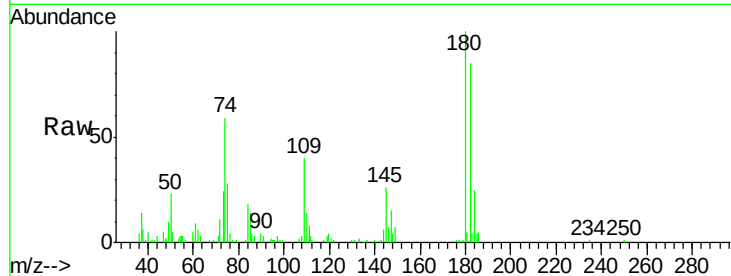
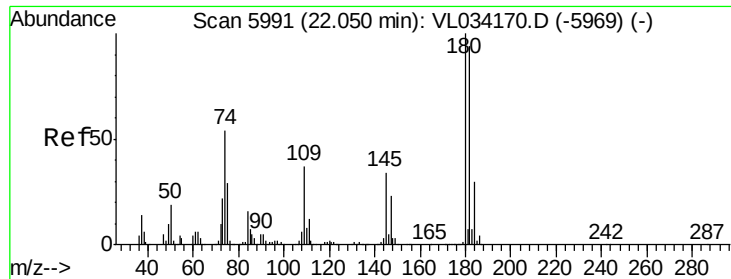
Acq: 17 Sep 2019 6:09

Tgt Ion:	142	Resp:	74812
Ion Ratio	Lower	Upper	
142	100		
141	82.7	67.6	101.4
115	42.8	36.9	55.3



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 0.560 ppbv m
 RT: 22.04 min Scan# 5989
 Delta R.T. -0.01 min
 Lab File: VL034173.D
 Acq: 17 Sep 2019 6:09

Tot Ion	Ratio	Resp	Lower	Upper
180	100	90926		
182	0.0	77.4	116.2#	
184	29.5	25.0	37.4	

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 9/20/2019 12:44:00 AM

