

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060719\
 Data File : VL033874.D
 Acq On : 7 Jun 2019 2:03
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 6/11/2019 9:18:11 AM

Quant Time: Jun 07 06:24:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
 QLast Update : Fri Jun 07 05:42:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	938050	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2190027	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2379901	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.56	95	1899859	9.87	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1285118	6.783	ppbv	100
3) Chlorodifluoromethane	3.01	51	1046015	9.685	ppbv	100
4) Chloromethane	3.16	50	605102	9.797	ppbv	100
5) Vinyl Chloride	3.28	62	601343	9.555	ppbv	100
6) Bromomethane	3.51	94	389231	10.128	ppbv	100
7) Chloroethane	3.59	64	226632	10.084	ppbv	100
8) Dichlorotetrafluoroethane	3.21	85	1601985	9.913	ppbv	100
9) Propene	3.03	41	422317	9.375	ppbv	100
10) Heptane	8.23	43	1171608	9.194	ppbv	100
11) Trichlorofluoromethane	3.99	101	1923815	10.131	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.54	101	1311101	9.916	ppbv	100
13) Ethanol	3.64	45	102876	7.095	ppbv	100
14) Bromoethene	3.78	108	519484	10.511	ppbv	100
15) Acetone	3.89	43	1168552	8.994	ppbv	100
16) 1,3-Butadiene	3.35	39	536642	10.229	ppbv	100
17) tert-Butyl alcohol	4.35	59	1236570	11.443	ppbv	100
18) 1,1-Dichloroethene	4.34	96	574116	10.281	ppbv	100
19) Isopropyl Alcohol	4.01	45	890955	10.551	ppbv	99
20) Methylene Chloride	4.40	84	482560	9.560	ppbv	100
21) Allyl Chloride	4.47	41	817973	10.130	ppbv	99
22) trans-1,2-Dichloroethene	4.95	96	605409	10.395	ppbv	100
23) Vinyl Acetate	5.14	43	1718613	10.068	ppbv	100
24) 1,1-Dichloroethane	5.08	63	1240453	9.478	ppbv	100
25) Ethyl Acetate	5.76	43	2112744	9.316	ppbv	100
26) Hexane	5.77	57	923882	9.499	ppbv	100
27) Carbon Disulfide	4.61	76	1447142	10.713	ppbv	99
28) Methyl tert-Butyl Ether	5.10	73	1647962	10.225	ppbv	100
29) Chloroform	5.84	83	1619817	8.984	ppbv	100
30) Cyclohexane	7.23	84	776453	9.557	ppbv	100
31) cis-1,2-Dichloroethene	5.63	61	945475	9.700	ppbv	100
32) 1,1,1-Trichloroethane	6.61	97	1721993	9.546	ppbv	100
34) 2-Butanone	5.32	43	1346538	9.946	ppbv	100
35) Carbon Tetrachloride	7.12	117	1827018	10.396	ppbv	100
36) Benzene	6.99	78	1866244	9.538	ppbv	100
37) 1,2-Dichloroethane	6.40	62	1291603	10.005	ppbv	100
38) Trichloroethene	7.95	130	817479	11.019	ppbv	100
39) 1,2-Dichloropropane	7.72	63	708508	9.661	ppbv	100
40) 1,4-Dioxane	7.94	88	314144	10.154	ppbv	100
41) Tetrahydrofuran	6.14	42	736457	9.896	ppbv	100
42) Bromodichloromethane	7.90	83	1785105	10.148	ppbv	100
43) Methyl Methacrylate	8.13	69	766690	10.558	ppbv	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060719\
 Data File : VL033874.D
 Acq On : 7 Jun 2019 2:03
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

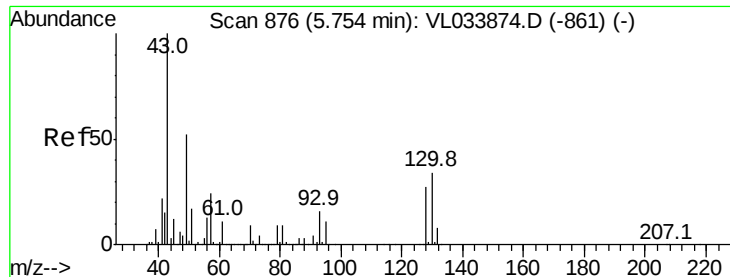
MMDadoda
 6/11/2019 9:18:11 AM

Quant Time: Jun 07 06:24:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
 QLast Update : Fri Jun 07 05:42:58 2019
 Response via : Initial Calibration

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

44) 2,2,4-Trimethylpentane	7.98	57	3243517	9.733	ppbv	100
45) t-1,3-Dichloropropene	9.41	75	1073037	11.668	ppbv	100
46) cis-1,3-Dichloropropene	8.82	75	1201008	11.198	ppbv	100
47) 1,1,2-Trichloroethane	9.60	97	827035	9.845	ppbv	100
48) Dibromochloromethane	10.44	129	1586828	10.852	ppbv	100
49) Bromoform	13.19	173	1444043	11.518	ppbv	100
50) 4-Methyl-2-Pentanone	8.85	43	2096288	10.163	ppbv	100
51) 2-Hexanone	10.26	43	1739962	10.805	ppbv #	100
52) Tetrachloroethene	11.36	164	757292	10.868	ppbv	100
53) Toluene	9.93	91	2295479	10.788	ppbv	100
54) 1,2-Dibromoethane	10.74	107	1314232	10.269	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.27	131	1056806	9.675	ppbv	98
57) Chlorobenzene	12.29	112	1824519	9.412	ppbv	100
58) Ethyl Benzene	12.85	91	3192115	10.309	ppbv	100
59) m/p-Xylene	13.14	91	5459685m	20.064	ppbv	
60) o-Xylene	13.83	91	2851804	10.300	ppbv	100
61) Styrene	13.67	104	2053125	11.123	ppbv	100
62) Isopropylbenzene	14.81	105	3809209	10.229	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.82	83	2011599	9.941	ppbv	100
64) n-propylbenzene	15.71	120	983307	10.229	ppbv	100
65) tert-Butylbenzene	16.89	119	3533224	10.386	ppbv	100
66) Benzyl Chloride	17.15	91	1988803	12.251	ppbv	100
67) sec-Butylbenzene	17.44	105	4935343	10.351	ppbv	100
69) p-Isopropyltoluene	17.80	119	4209485	10.674	ppbv	100
70) n-Butylbenzene	18.70	91	4460430	10.523	ppbv	100
71) 2-Chlorotoluene	15.61	91	2887146	10.461	ppbv	100
72) 4-Ethyltoluene	15.99	105	3382723	10.699	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	3226370	10.434	ppbv	100
74) 1,2,4-Trimethylbenzene	16.91	105	3478067	10.310	ppbv	100
75) 1,3-Dichlorobenzene	17.15	146	2046326	9.882	ppbv	100
76) 1,4-Dichlorobenzene	17.29	146	2018147	10.275	ppbv	100
77) 1,2-Dichlorobenzene	17.98	146	1983454	10.186	ppbv	100
78) Hexachloro-1,3-Butadiene	23.53	225	1297769	8.894	ppbv	100
79) Naphthalene	22.39	128	3051718	10.083	ppbv	100
80) Naphthalene, 2-methyl-	25.10	142	1090108	10.006	ppbv	100
81) 1,2,4-Trichlorobenzene	22.12	180	1809969	10.010	ppbv	100

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



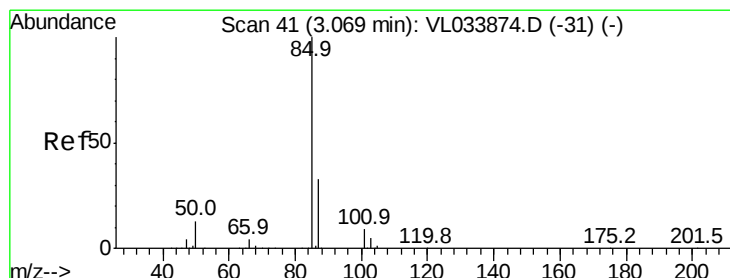
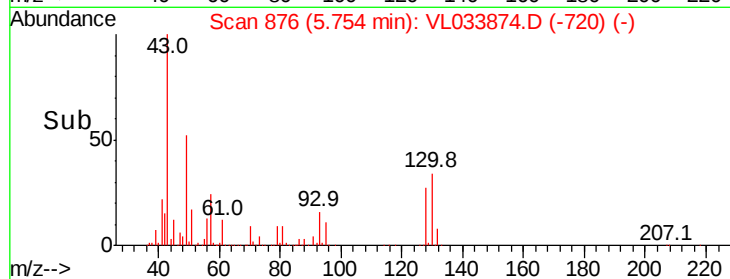
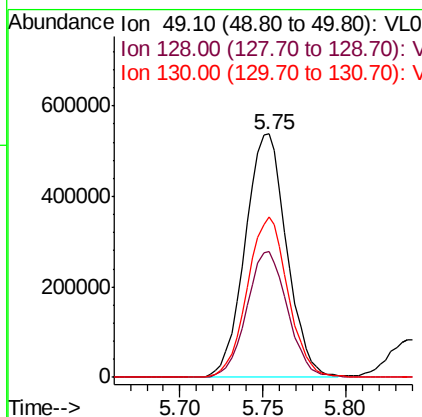
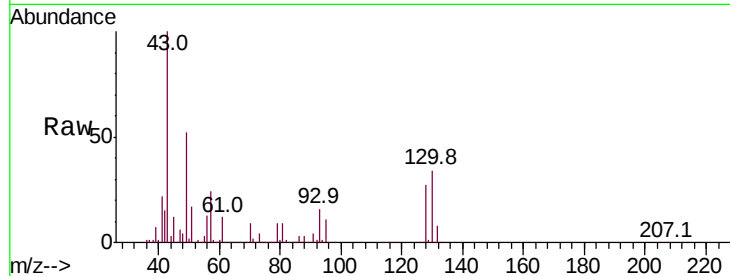
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.75 min Scan# 876
Delta R.T. 0.00 min
Lab File: VL033874.D
Acq: 7 Jun 2019 2:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
49	100		
128	50.9	25.5	76.5
130	64.7	32.5	97.4

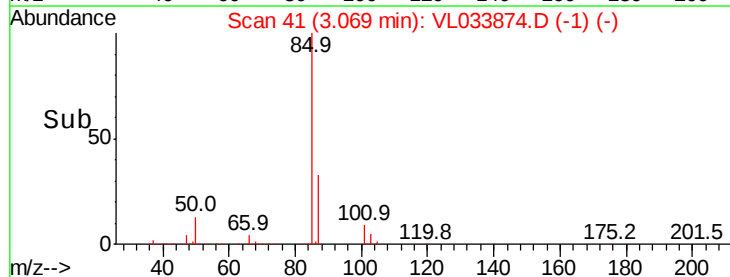
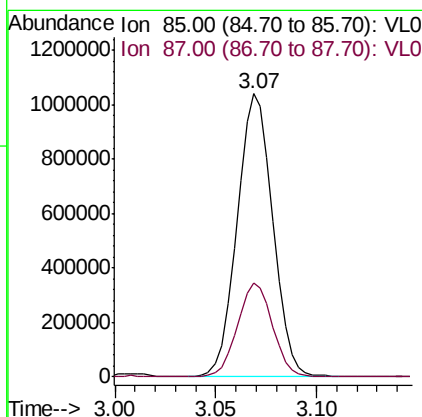
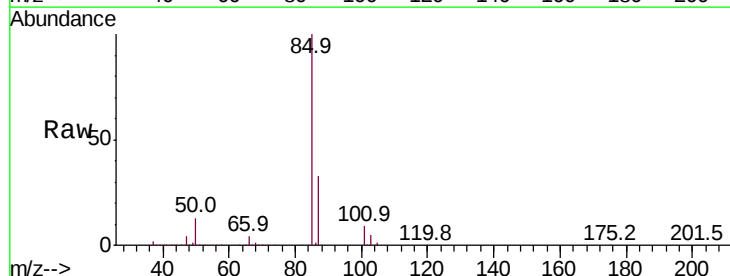
Manual Integrations
APPROVED

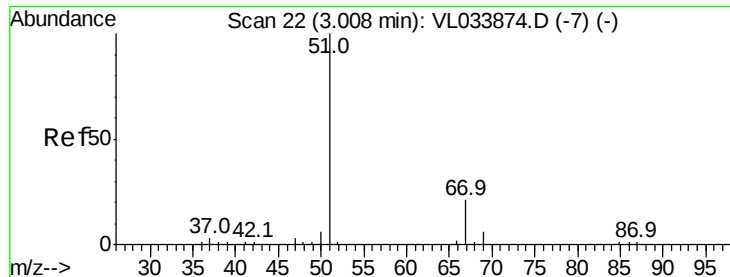
MMDadoda
6/11/2019 9:18:11 AM



#2
Dichlorodifluoromethane
Concen: 6.783 ppbv
RT: 3.07 min Scan# 41
Delta R.T. 0.00 min
Lab File: VL033874.D
Acq: 7 Jun 2019 2:03

Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.3	26.6	40.0





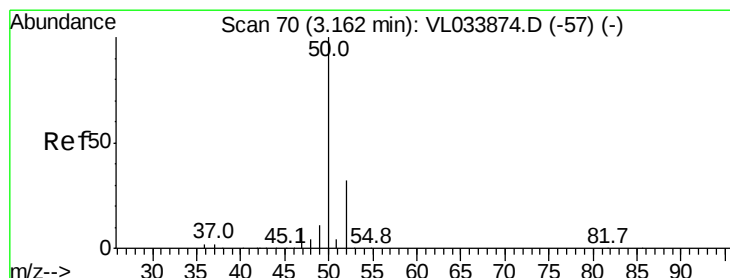
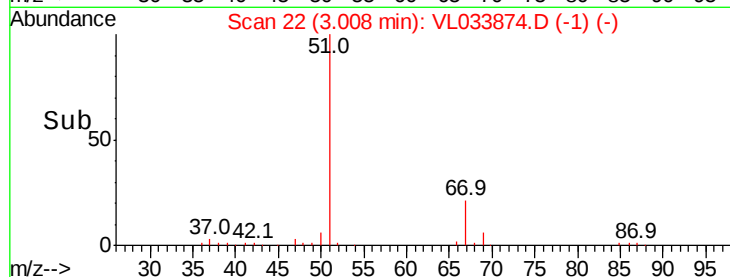
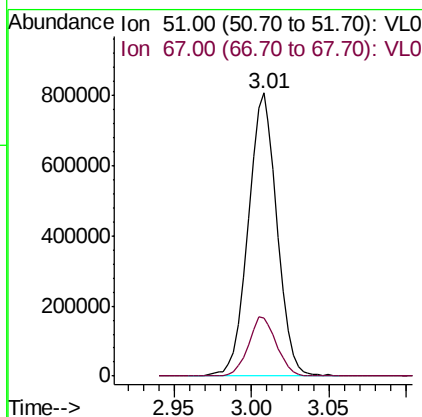
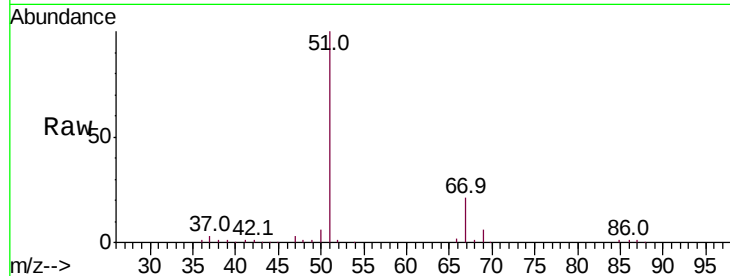
#3
Chlorodifluoromethane
Concen: 9.685 ppbv
RT: 3.01 min Scan# 22
Delta R.T. 0.00 min
Lab File: VL033874.D
Acq: 7 Jun 2019 2:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 51 Resp: 1046015
Ion Ratio Lower Upper
51 100
67 20.5 16.4 24.6

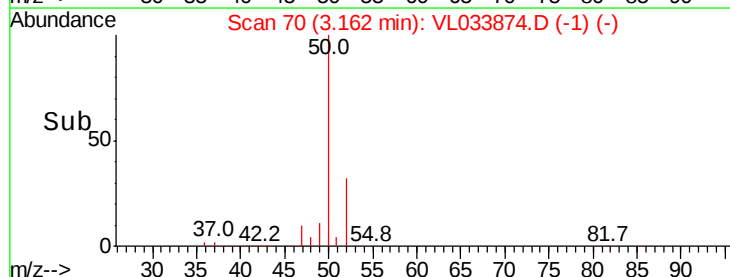
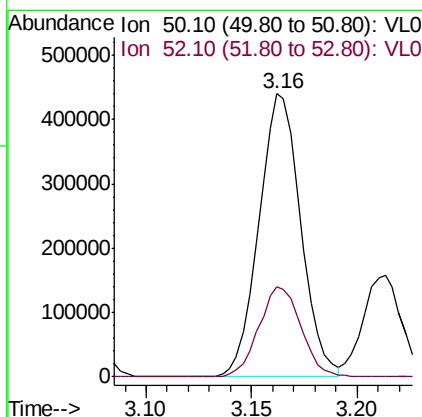
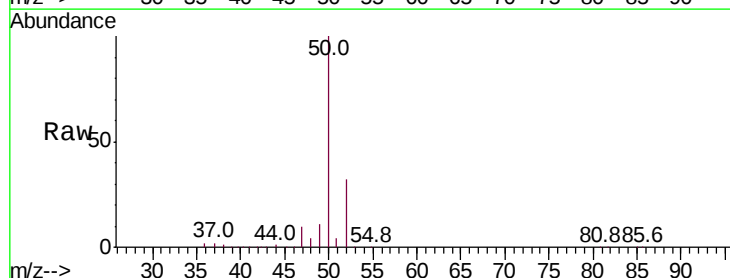
Manual Integrations
APPROVED

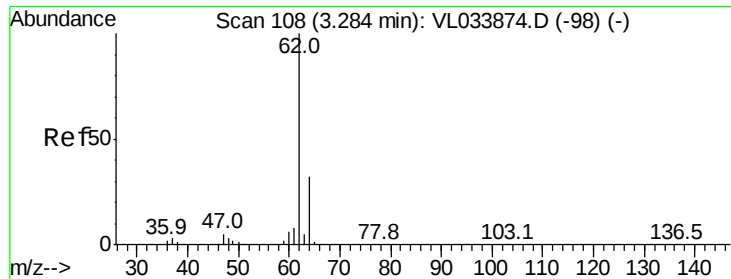
MMDadoda
6/11/2019 9:18:11 AM



#4
Chloromethane
Concen: 9.797 ppbv
RT: 3.16 min Scan# 70
Delta R.T. 0.00 min
Lab File: VL033874.D
Acq: 7 Jun 2019 2:03

Tgt Ion: 50 Resp: 605102
Ion Ratio Lower Upper
50 100
52 31.7 25.4 38.0





#5

Vinyl Chloride

Concen: 9.555 ppbv

RT: 3.28 min Scan# 108

Delta R.T. 0.00 min

Lab File: VL033874.D

Acq: 7 Jun 2019 2:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 62 Resp: 601343

Ion Ratio Lower Upper

62 100

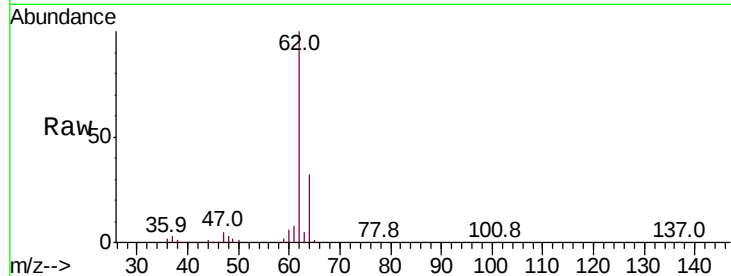
64 31.5 25.2 37.8

Manual Integrations

APPROVED

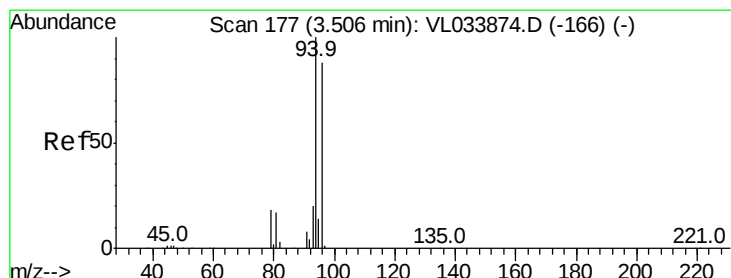
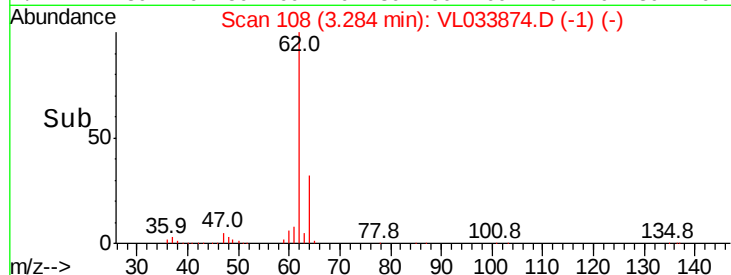
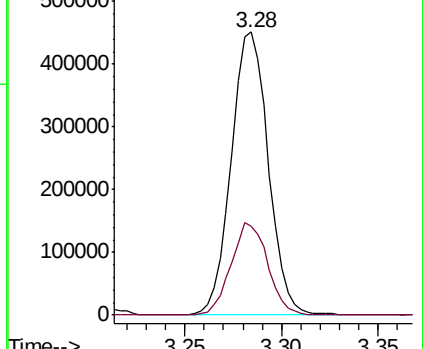
MMDadoda

6/11/2019 9:18:11 AM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.128 ppbv

RT: 3.51 min Scan# 177

Delta R.T. 0.00 min

Lab File: VL033874.D

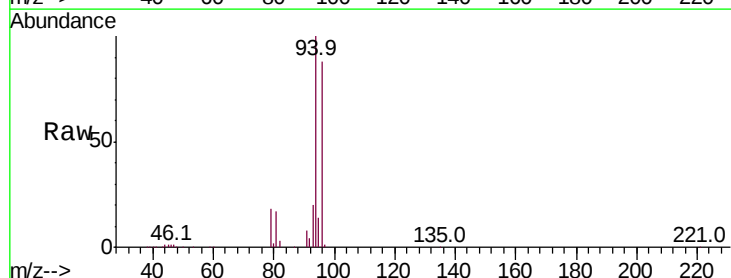
Acq: 7 Jun 2019 2:03

Tgt Ion: 94 Resp: 389231

Ion Ratio Lower Upper

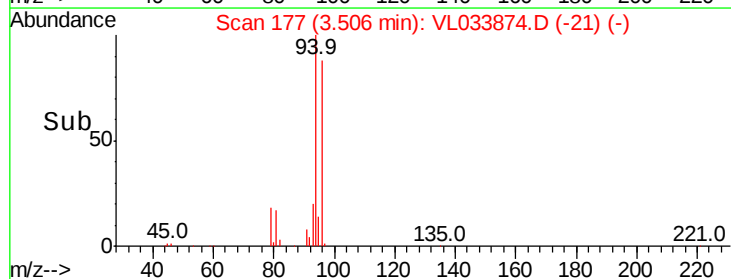
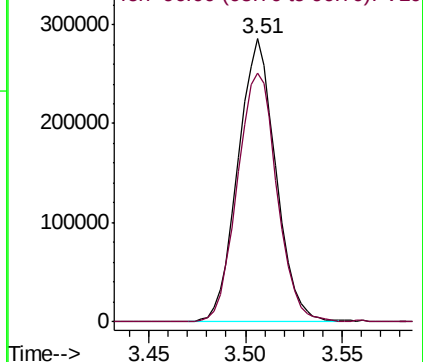
94 100

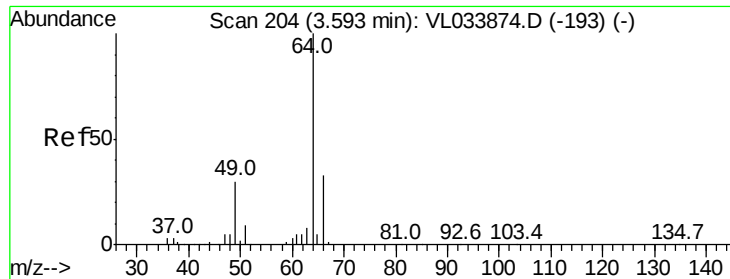
96 87.7 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.084 ppbv

RT: 3.59 min Scan# 204

Delta R.T. 0.00 min

Lab File: VL033874.D

Acq: 7 Jun 2019 2:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 64 Resp: 226632

Ion Ratio Lower Upper

64 100

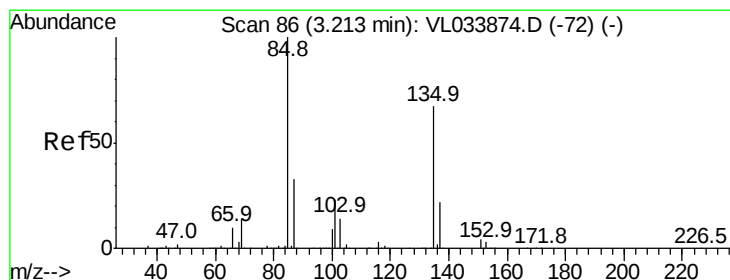
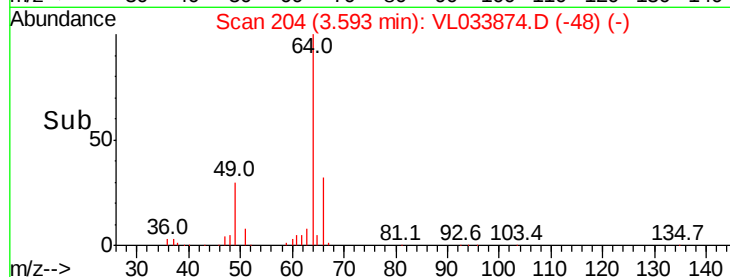
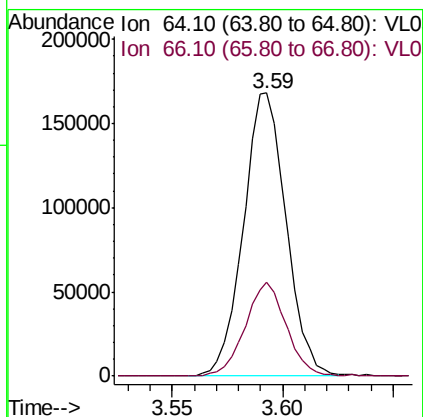
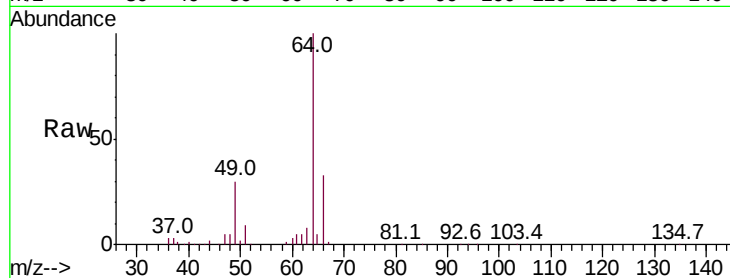
66 33.4 26.7 40.1

Manual Integrations

APPROVED

MMDadoda

6/11/2019 9:18:11 AM



#8

Dichlorotetrafluoroethane

Concen: 9.913 ppbv

RT: 3.21 min Scan# 86

Delta R.T. 0.00 min

Lab File: VL033874.D

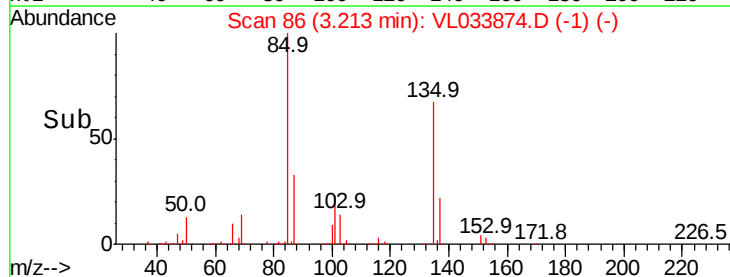
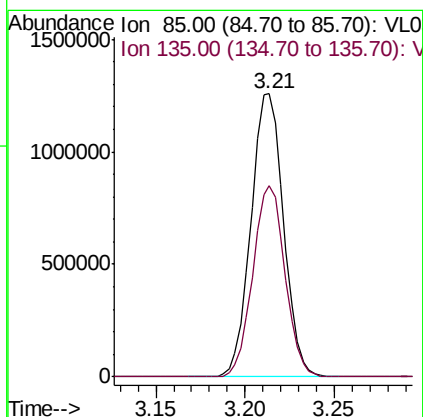
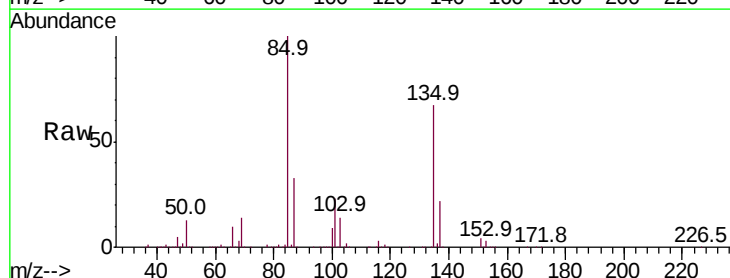
Acq: 7 Jun 2019 2:03

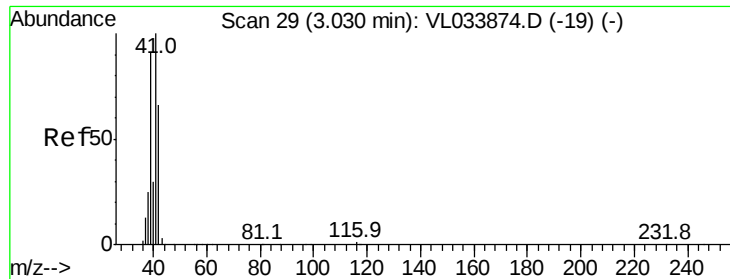
Tgt Ion: 85 Resp: 1601985

Ion Ratio Lower Upper

85 100

135 67.1 53.7 80.5





#9

Propene

Concen: 9.375 ppbv

RT: 3.03 min Scan# 29

Delta R.T. 0.00 min

Lab File: VL033874.D

Acq: 7 Jun 2019 2:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 41 Resp: 422317

Ion Ratio Lower Upper

41 100

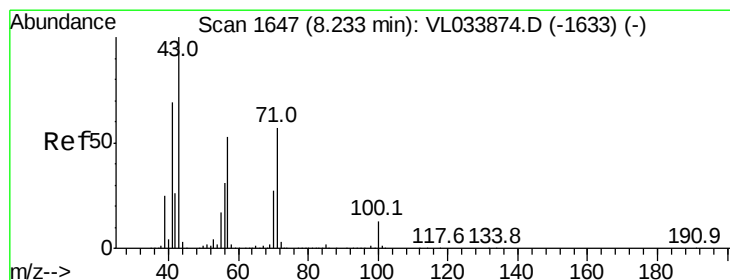
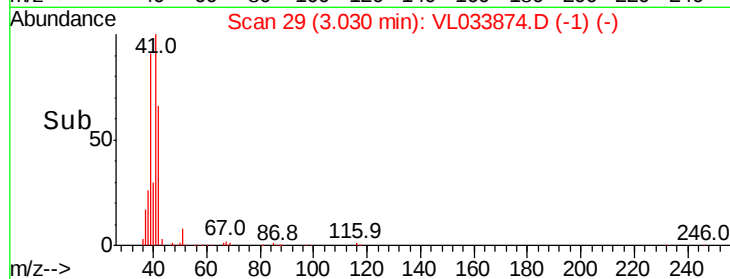
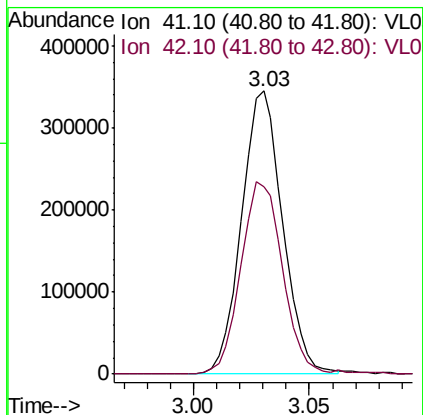
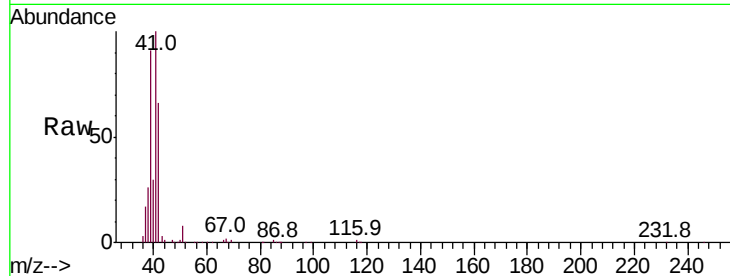
42 70.4 56.3 84.5

Manual Integrations

APPROVED

MMDadoda

6/11/2019 9:18:11 AM



#10

Heptane

Concen: 9.194 ppbv

RT: 8.23 min Scan# 1647

Delta R.T. 0.00 min

Lab File: VL033874.D

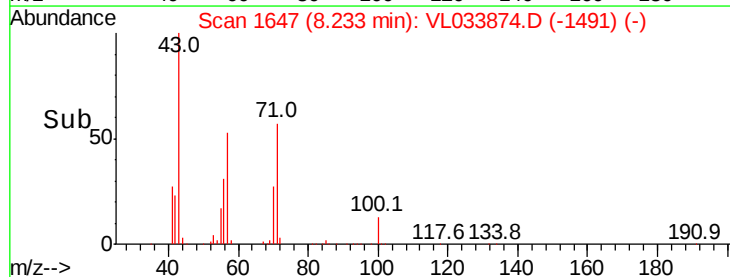
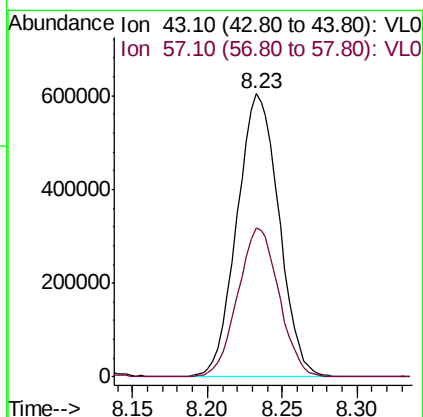
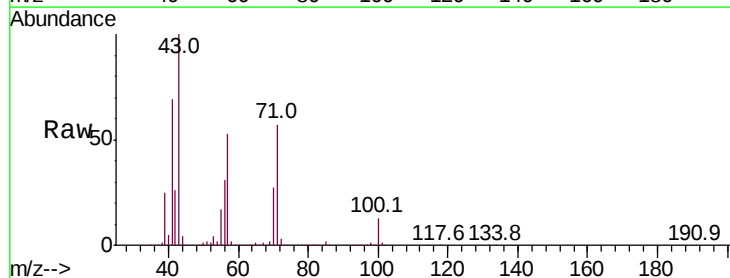
Acq: 7 Jun 2019 2:03

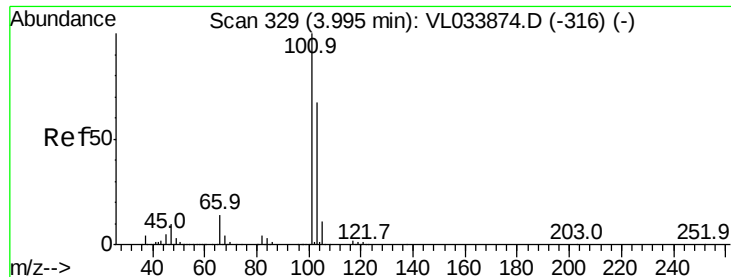
Tgt Ion: 43 Resp: 1171608

Ion Ratio Lower Upper

43 100

57 51.8 41.7 62.5





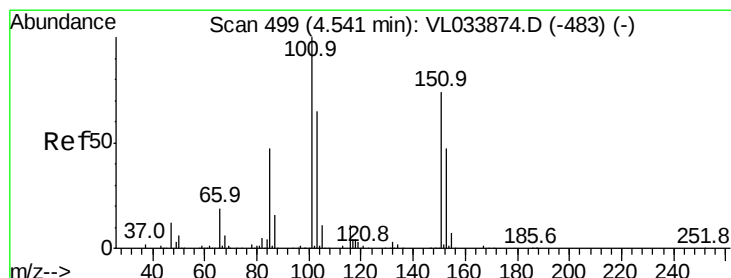
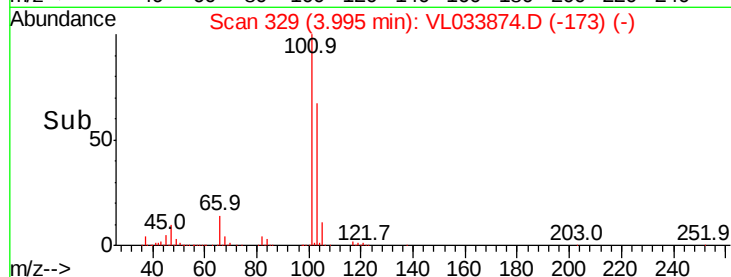
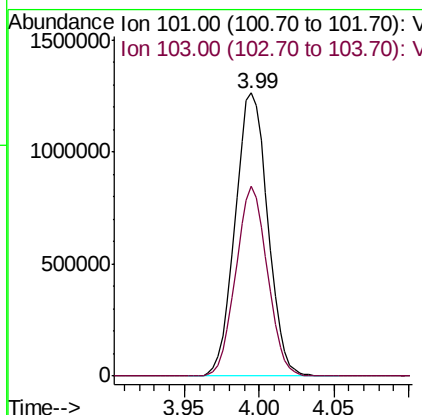
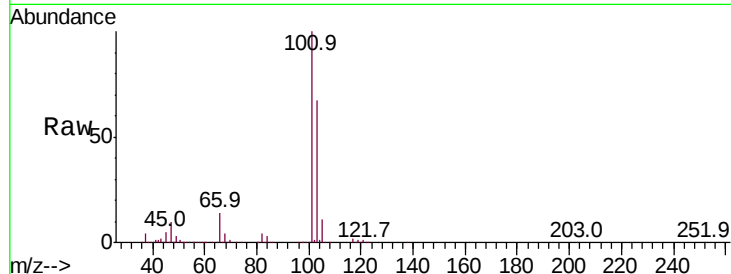
#11
 Trichlorofluoromethane
 Concen: 10.131 ppbv
 RT: 3.99 min Scan# 329
 Delta R.T. 0.00 min
 Lab File: VL033874.D
 Acq: 7 Jun 2019 2:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:101 Resp: 1923815
 Ion Ratio Lower Upper
 101 100
 103 67.0 53.6 80.4

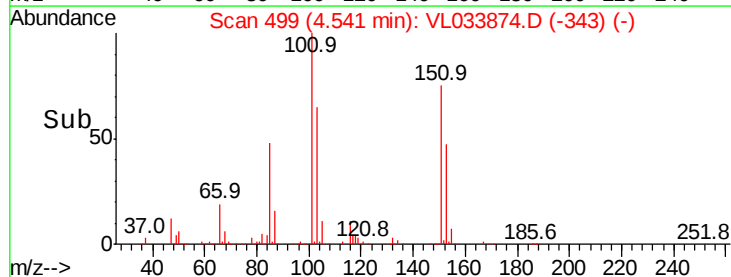
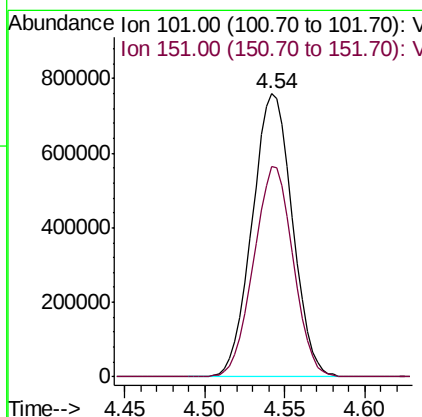
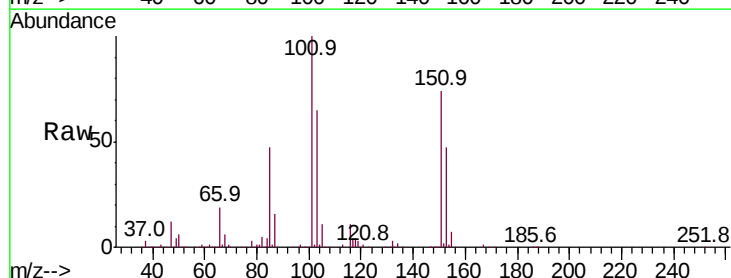
Manual Integrations
 APPROVED

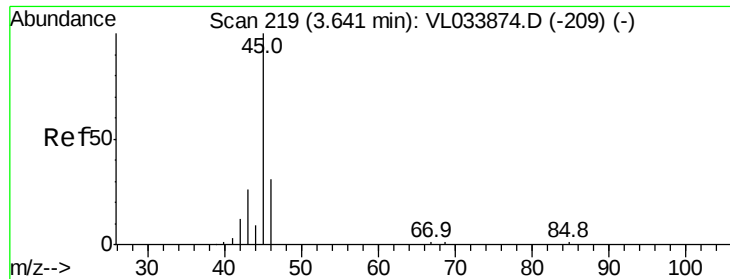
MMDadoda
 6/11/2019 9:18:11 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.916 ppbv
 RT: 4.54 min Scan# 499
 Delta R.T. 0.00 min
 Lab File: VL033874.D
 Acq: 7 Jun 2019 2:03

Tgt Ion:101 Resp: 1311101
 Ion Ratio Lower Upper
 101 100
 151 73.3 58.6 87.8





#13

Ethanol

Concen: 7.095 ppbv

RT: 3.64 min Scan# 219

Delta R.T. 0.00 min

Lab File: VL033874.D

Acq: 7 Jun 2019 2:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 45 Resp: 102876

Ion Ratio Lower Upper

45 100

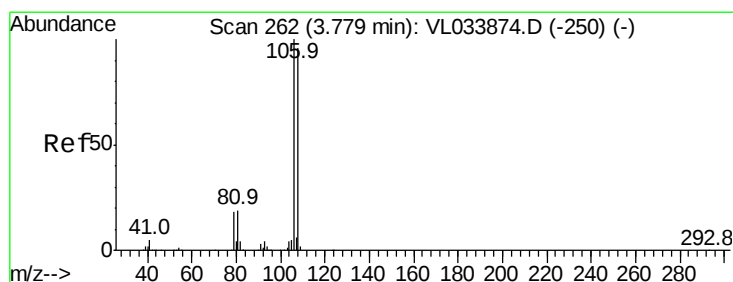
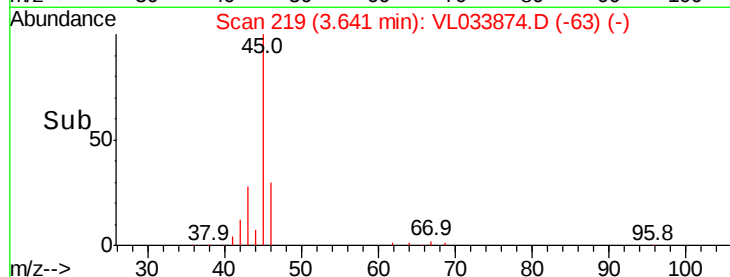
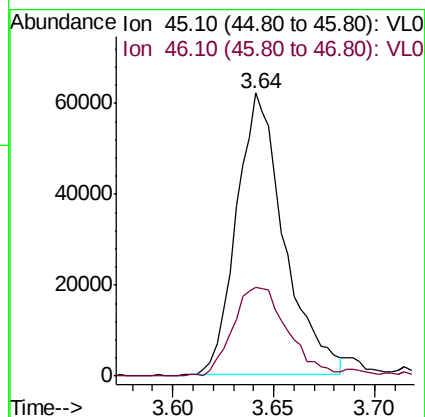
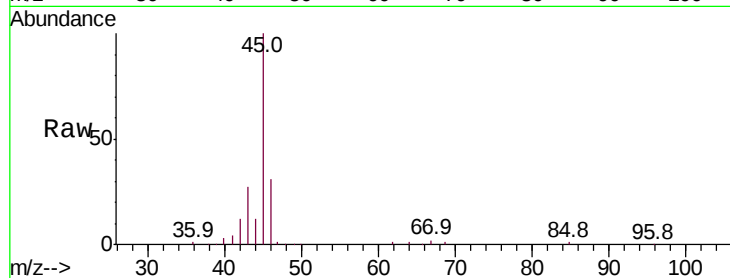
46 38.2 15.3 61.1

Manual Integrations

APPROVED

MMDadoda

6/11/2019 9:18:11 AM



#14

Bromoethene

Concen: 10.511 ppbv

RT: 3.78 min Scan# 262

Delta R.T. 0.00 min

Lab File: VL033874.D

Acq: 7 Jun 2019 2:03

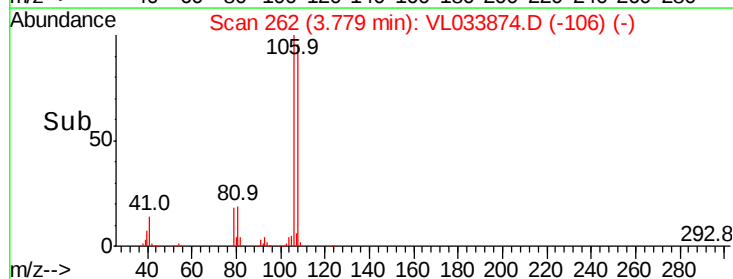
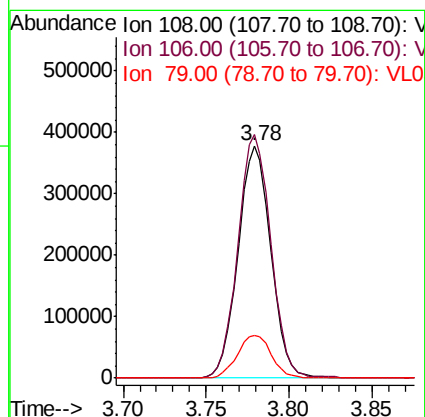
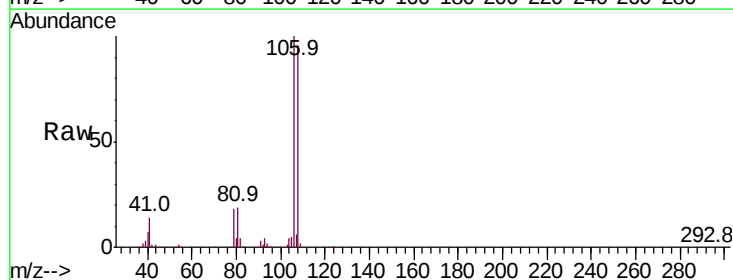
Tgt Ion: 108 Resp: 519484

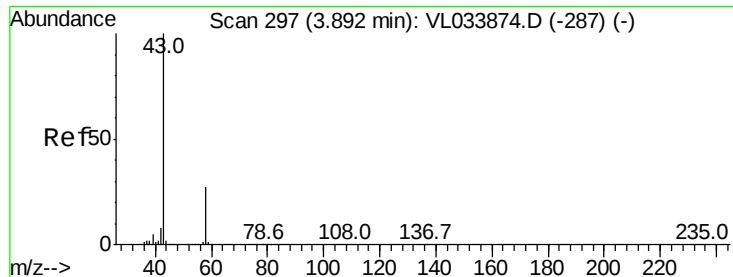
Ion Ratio Lower Upper

108 100

106 106.1 84.9 127.3

79 19.2 15.4 23.0





#15

Acetone

Concen: 8.994 ppbv

RT: 3.89 min Scan# 297

Delta R.T. 0.00 min

Lab File: VL033874.D

Acq: 7 Jun 2019 2:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 1168552

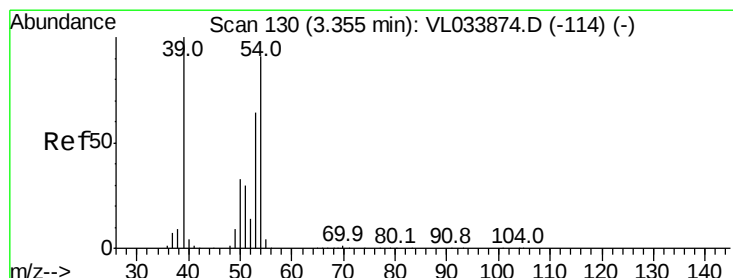
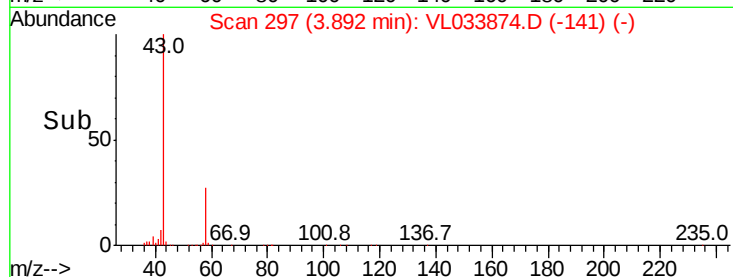
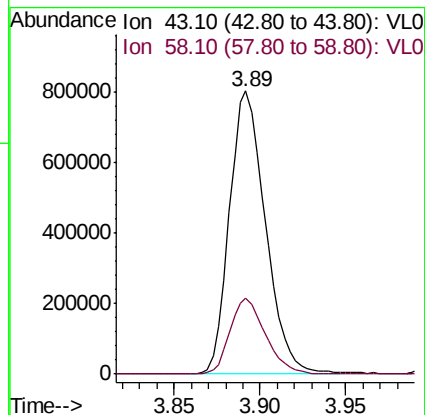
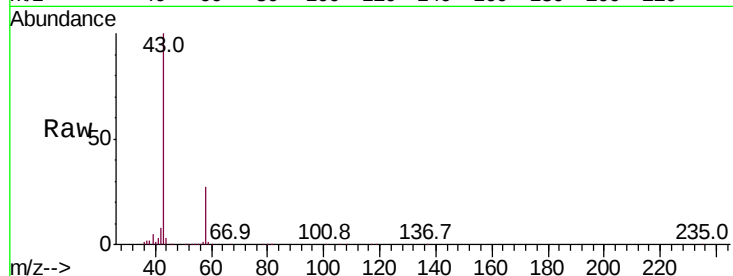
Ion Ratio Lower Upper

43 100

58 26.5 21.3 31.9

Manual Integrations
APPROVED

MMDadoda
6/11/2019 9:18:11 AM



#16

1,3-Butadiene

Concen: 10.229 ppbv

RT: 3.35 min Scan# 130

Delta R.T. 0.00 min

Lab File: VL033874.D

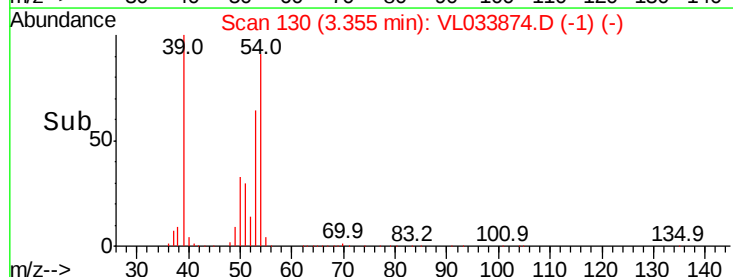
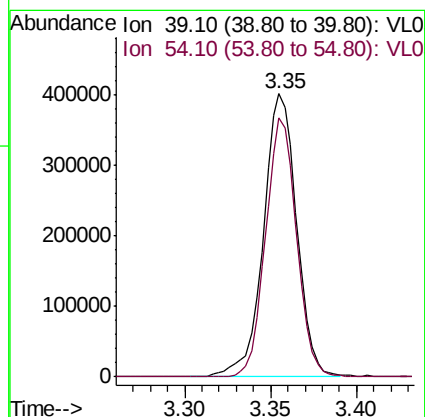
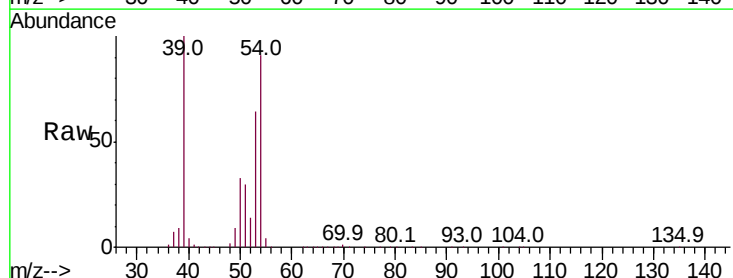
Acq: 7 Jun 2019 2:03

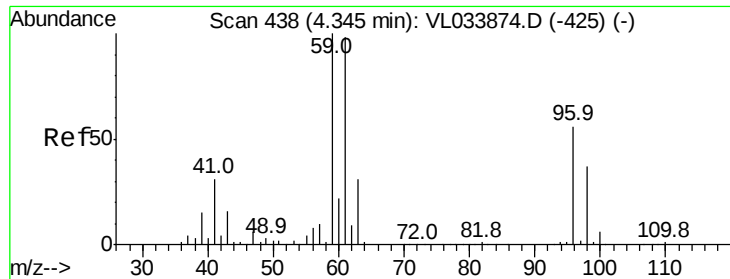
Tgt Ion: 39 Resp: 536642

Ion Ratio Lower Upper

39 100

54 85.8 68.6 103.0





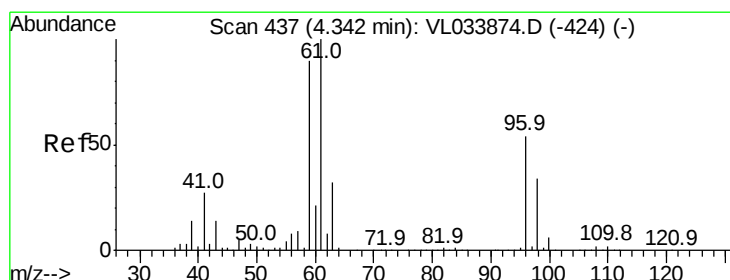
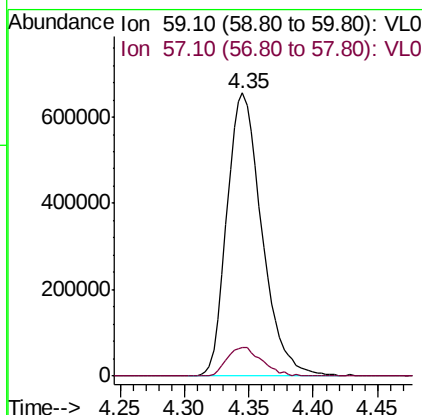
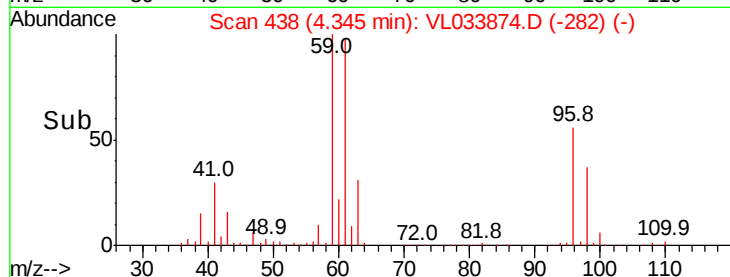
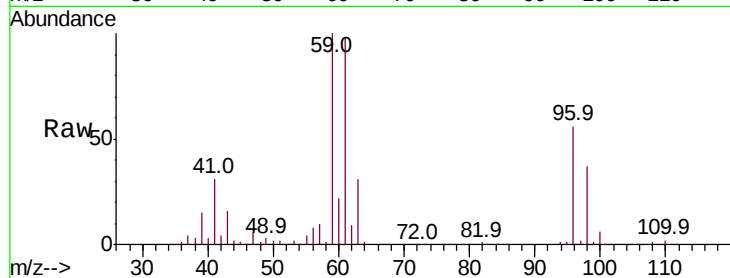
#17
tert-Butyl alcohol
Concen: 11.443 ppbv
RT: 4.35 min Scan# 438
Delta R.T. 0.00 min
Lab File: VL033874.D
Acq: 7 Jun 2019 2:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 59 Resp: 1236570
Ion Ratio Lower Upper
59 100
57 10.4 8.4 12.6

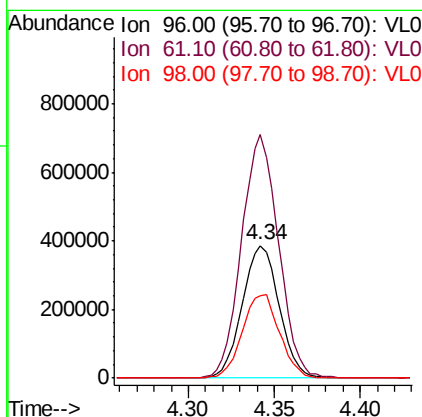
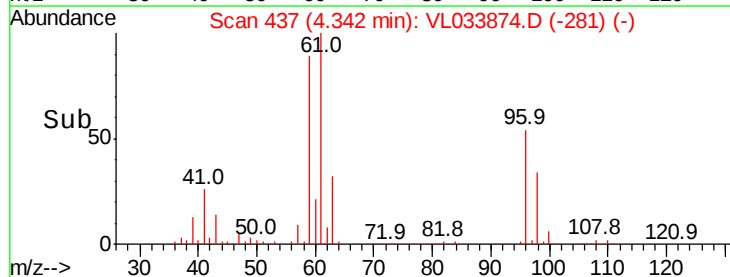
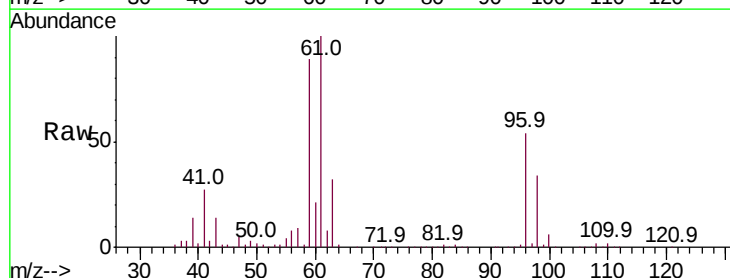
Manual Integrations
APPROVED

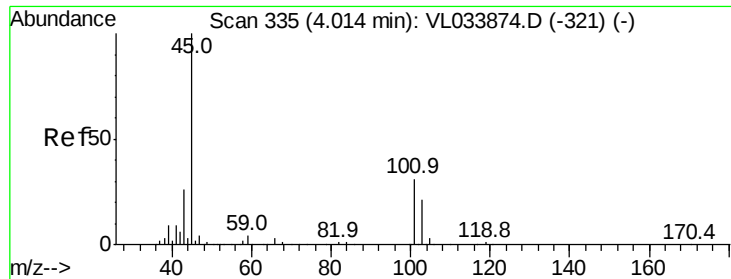
MMDadoda
6/11/2019 9:18:11 AM



#18
1,1-Dichloroethene
Concen: 10.281 ppbv
RT: 4.34 min Scan# 437
Delta R.T. 0.00 min
Lab File: VL033874.D
Acq: 7 Jun 2019 2:03

Tgt Ion: 96 Resp: 574116
Ion Ratio Lower Upper
96 100
61 183.8 147.0 220.6
98 61.7 49.4 74.0





#19

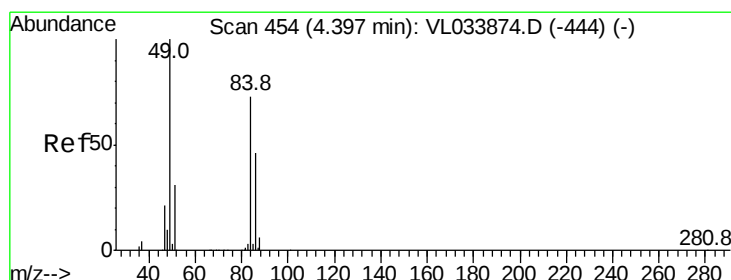
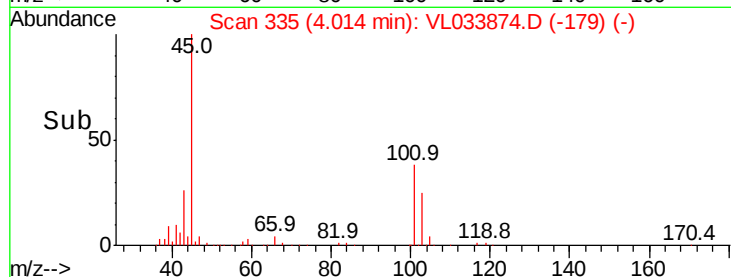
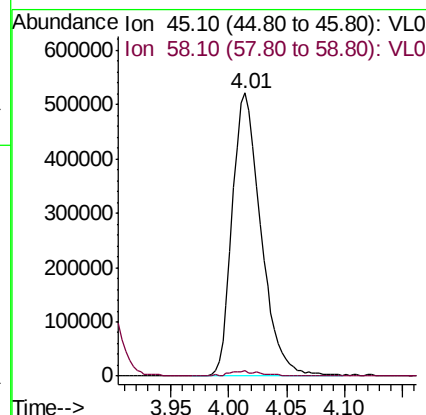
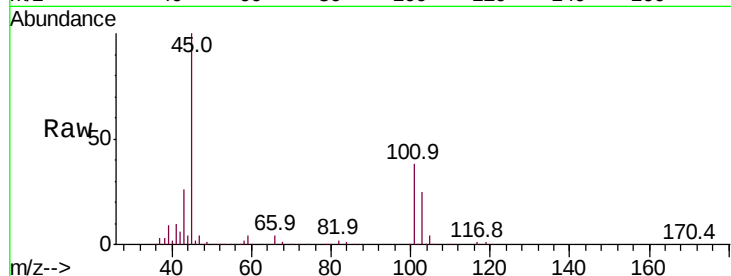
Isopropyl Alcohol
 Concen: 10.551 ppbv
 RT: 4.01 min Scan# 335
 Delta R.T. 0.00 min
 Lab File: VL033874.D
 Acq: 7 Jun 2019 2:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
45	100		
58	2.4	1.8	2.6

Manual Integrations
 APPROVED

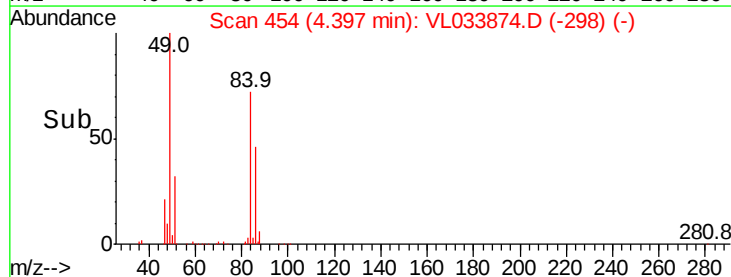
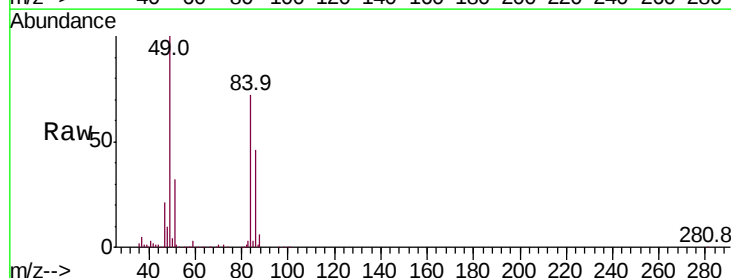
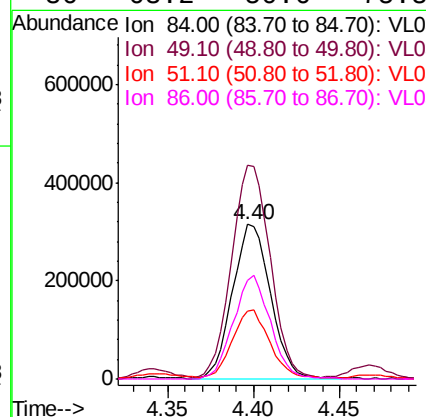
MMDadoda
 6/11/2019 9:18:11 AM

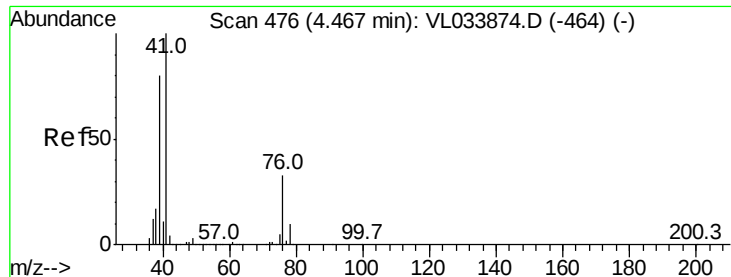


#20

Methylene Chloride
 Concen: 9.560 ppbv
 RT: 4.40 min Scan# 454
 Delta R.T. 0.00 min
 Lab File: VL033874.D
 Acq: 7 Jun 2019 2:03

Tgt Ion	Ratio	Lower	Upper
84	100		
49	137.5	110.0	165.0
51	43.2	34.6	51.8
86	63.2	50.6	75.8





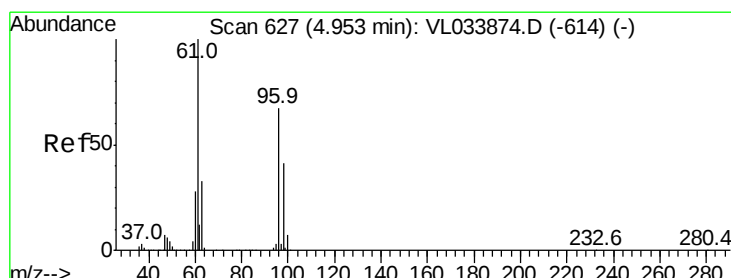
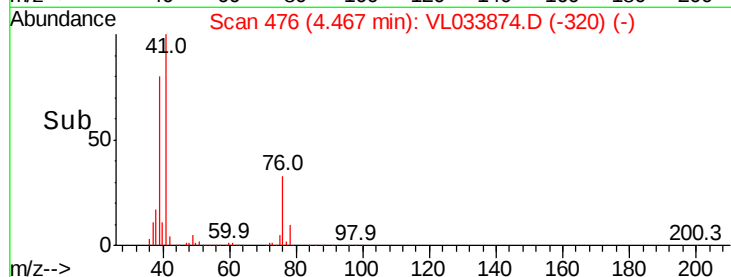
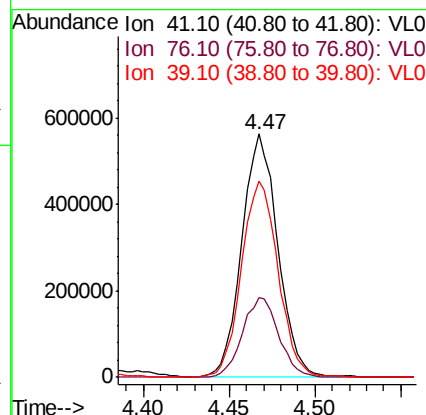
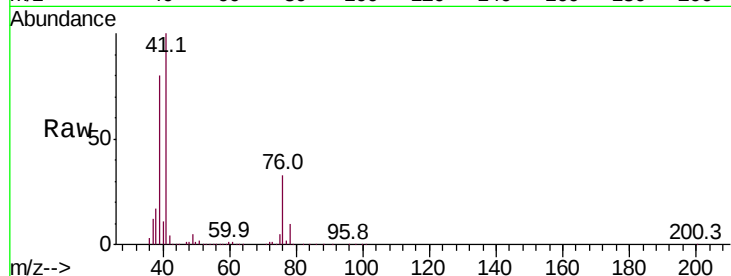
#21
Allvl Chloride
Concen: 10.130 ppbv
RT: 4.47 min Scan# 476
Delta R.T. 0.00 min
Lab File: VL033874.D
Acq: 7 Jun 2019 2:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	33.1	26.6	39.8
39	82.3	65.2	97.8

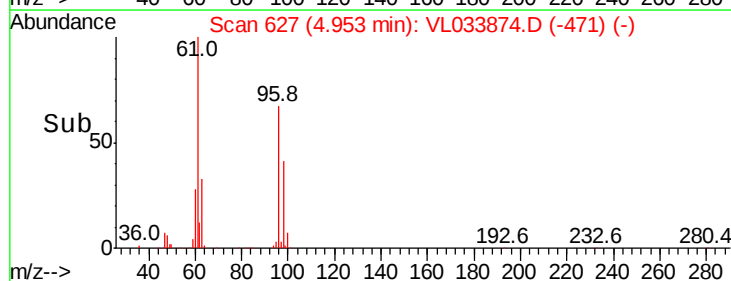
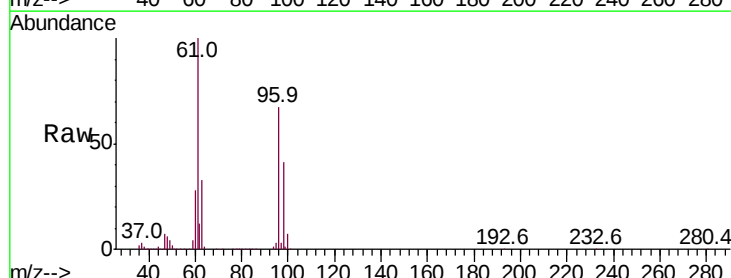
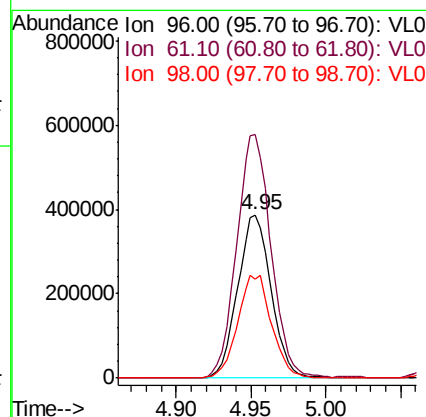
Manual Integrations
APPROVED

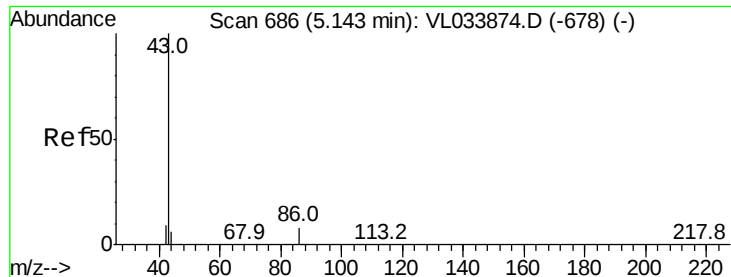
MMDadoda
6/11/2019 9:18:11 AM



#22
trans-1,2-Dichloroethene
Concen: 10.395 ppbv
RT: 4.95 min Scan# 627
Delta R.T. 0.00 min
Lab File: VL033874.D
Acq: 7 Jun 2019 2:03

Tgt Ion	Ratio	Lower	Upper
96	100		
61	148.8	119.0	178.6
98	60.4	48.3	72.5





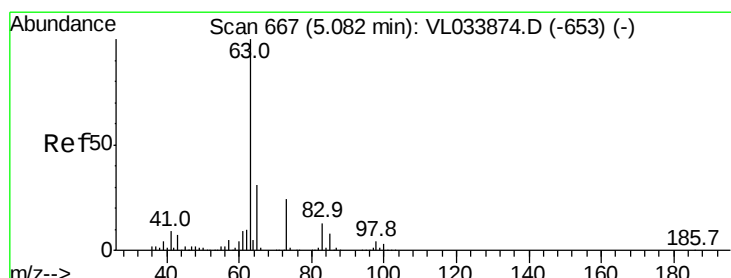
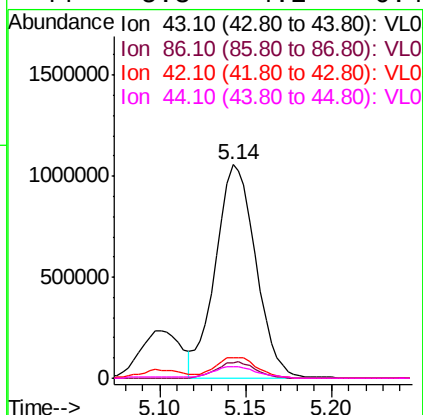
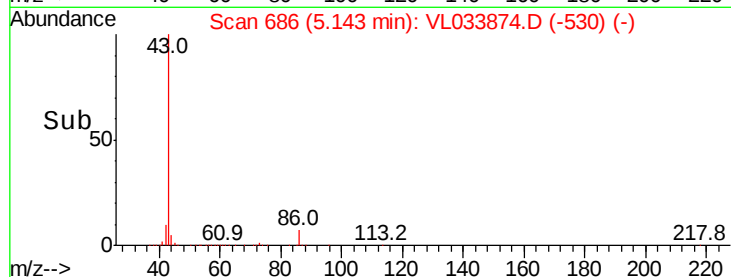
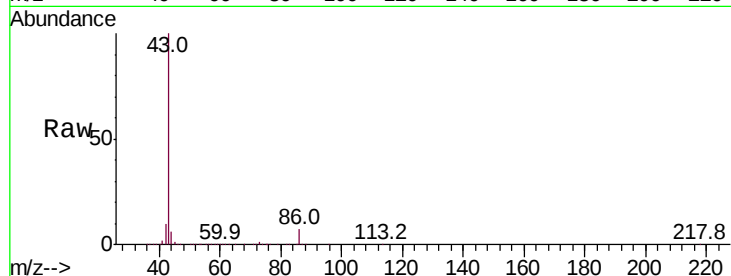
#23
 Vinyl Acetate
 Concen: 10.068 ppbv
 RT: 5.14 min Scan# 686
 Delta R.T. 0.00 min
 Lab File: VL033874.D
 Acq: 7 Jun 2019 2:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	43	Resp	1718613
Ion	Ratio	Lower	Upper
43	100		
86	7.3	5.8	8.8
42	9.8	7.8	11.8
44	5.3	4.2	6.4

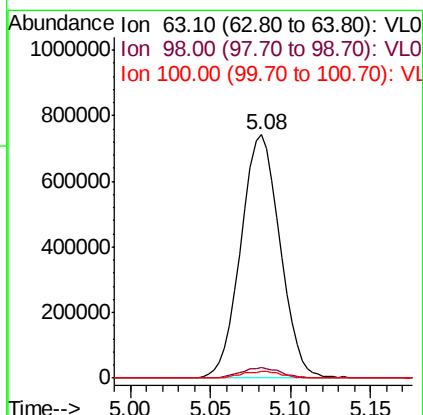
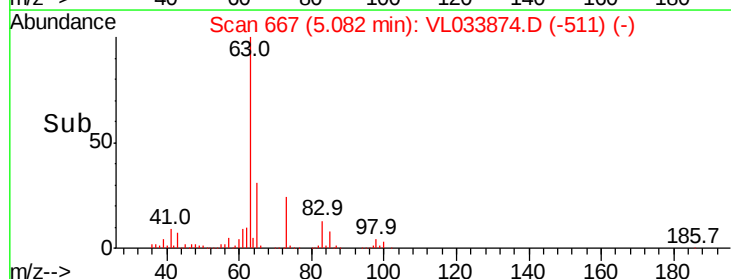
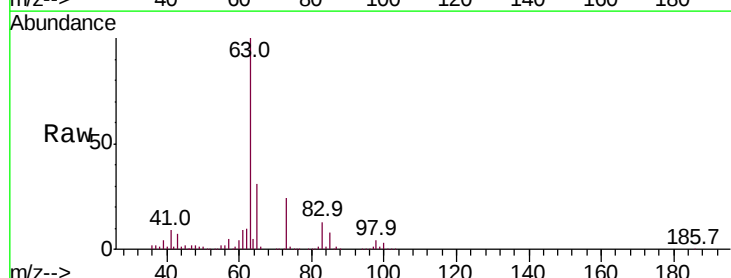
Manual Integrations
 APPROVED

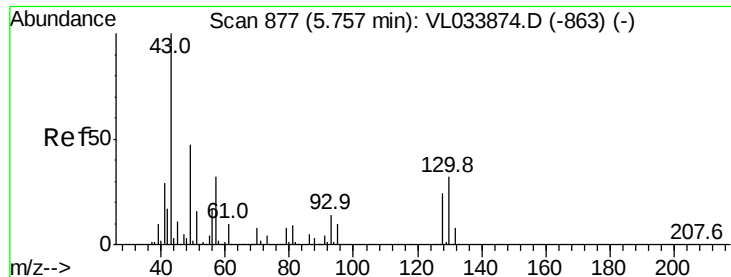
MMDadoda
 6/11/2019 9:18:11 AM



#24
 1,1-Dichloroethane
 Concen: 9.478 ppbv
 RT: 5.08 min Scan# 667
 Delta R.T. 0.00 min
 Lab File: VL033874.D
 Acq: 7 Jun 2019 2:03

Tgt Ion	63	Resp	1240453
Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.2	6.6
100	2.5	1.3	3.8





#25

Ethyl Acetate

Concen: 9.316 ppbv

RT: 5.76 min Scan# 877

Delta R.T. 0.00 min

Lab File: VL033874.D

Acq: 7 Jun 2019 2:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 2112744

Ion Ratio Lower Upper

43 100

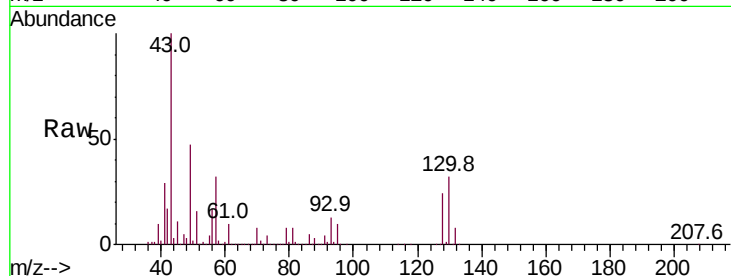
45 10.0 7.9 11.9

61 9.5 7.8 11.6

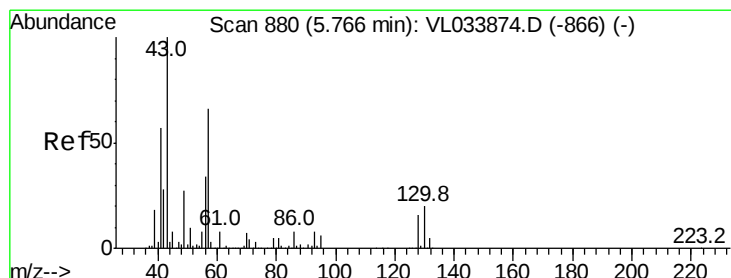
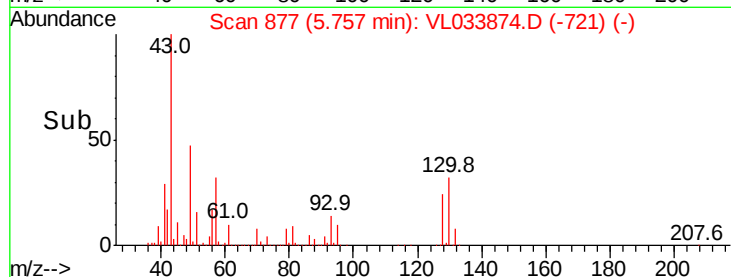
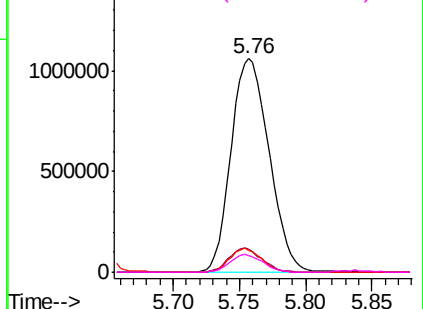
70 7.2 5.8 8.6

Manual Integrations
APPROVED

MMDadoda
6/11/2019 9:18:11 AM



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 9.499 ppbv

RT: 5.77 min Scan# 880

Delta R.T. 0.00 min

Lab File: VL033874.D

Acq: 7 Jun 2019 2:03

Tgt Ion: 57 Resp: 923882

Ion Ratio Lower Upper

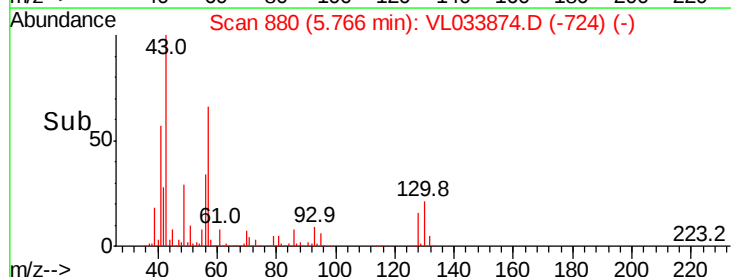
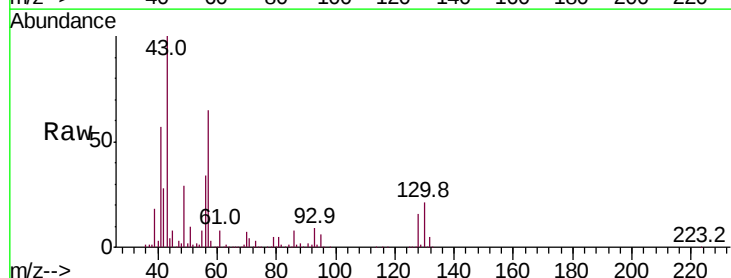
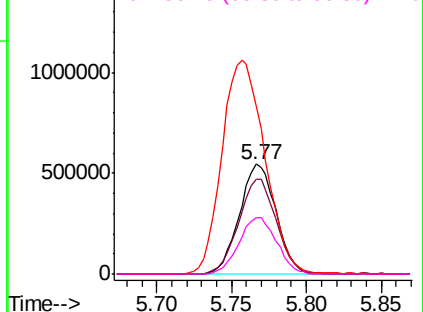
57 100

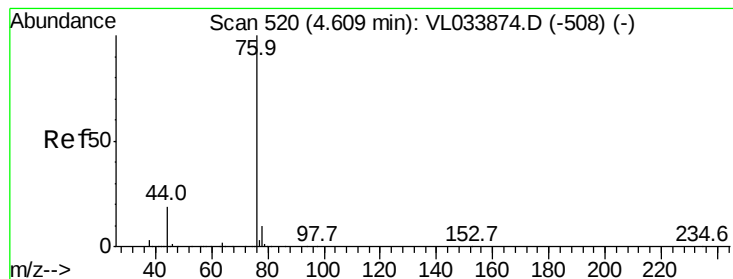
41 89.3 71.4 107.2

43 229.6 183.7 275.5

56 53.4 42.7 64.1

Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 10.713 ppbv

RT: 4.61 min Scan# 520

Delta R.T. 0.00 min

Lab File: VL033874.D

Acq: 7 Jun 2019 2:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 76 Resp: 1447142

Ion Ratio Lower Upper

76 100

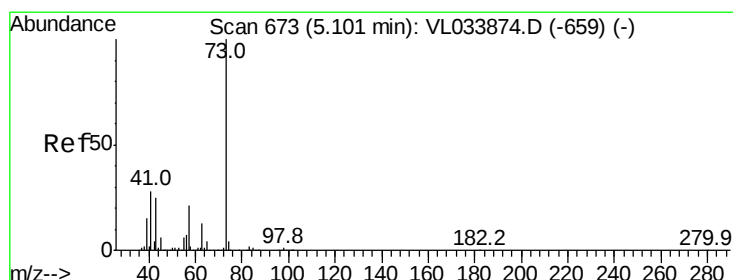
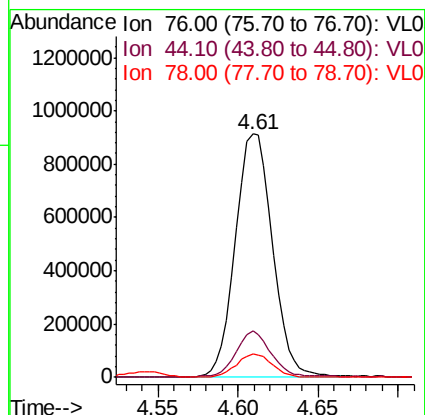
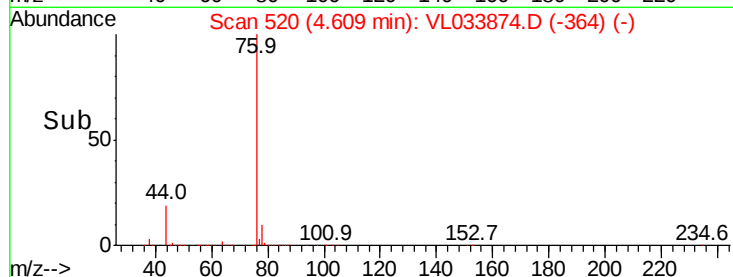
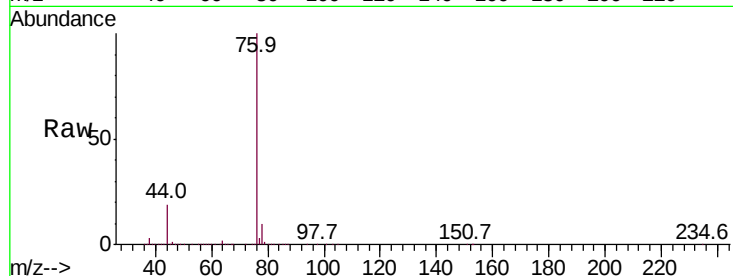
44 17.7 14.4 21.6

78 9.5 7.5 11.3

Manual Integrations
APPROVED

MMDadoda

6/11/2019 9:18:11 AM



#28

Methyl tert-Butyl Ether

Concen: 10.225 ppbv

RT: 5.10 min Scan# 673

Delta R.T. 0.00 min

Lab File: VL033874.D

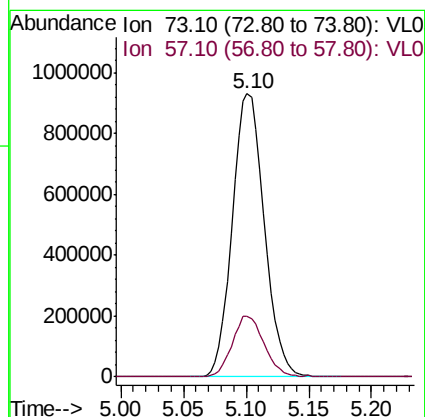
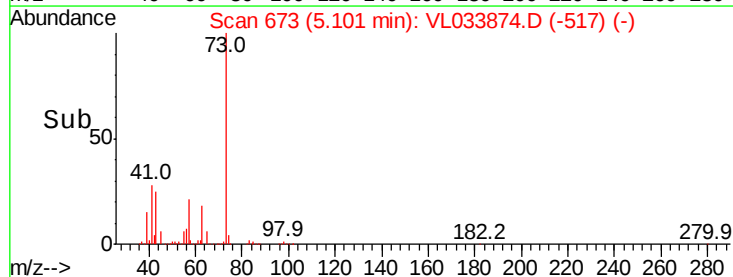
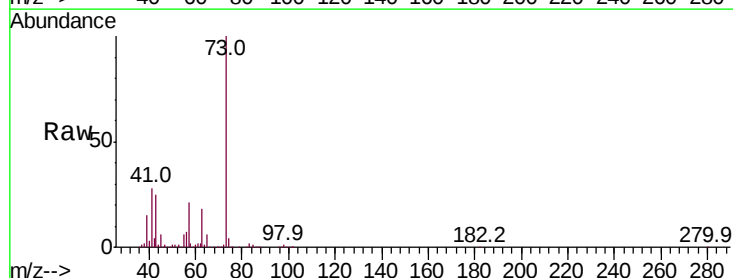
Acq: 7 Jun 2019 2:03

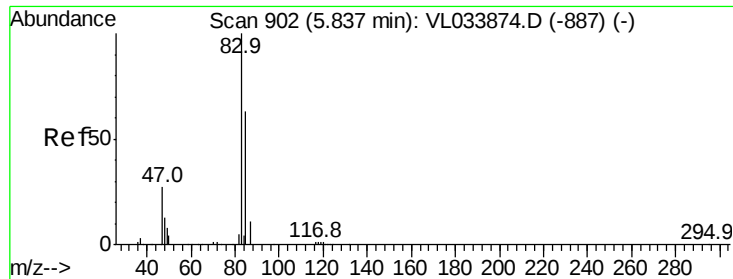
Tgt Ion: 73 Resp: 1647962

Ion Ratio Lower Upper

73 100

57 21.5 17.2 25.8





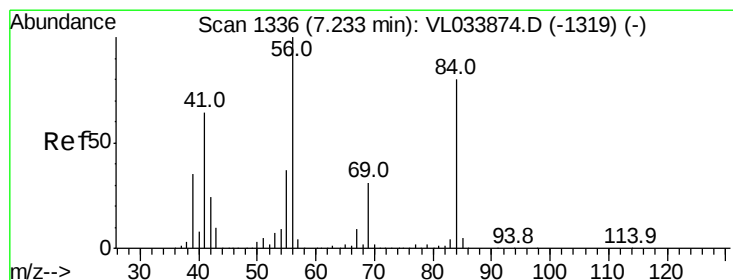
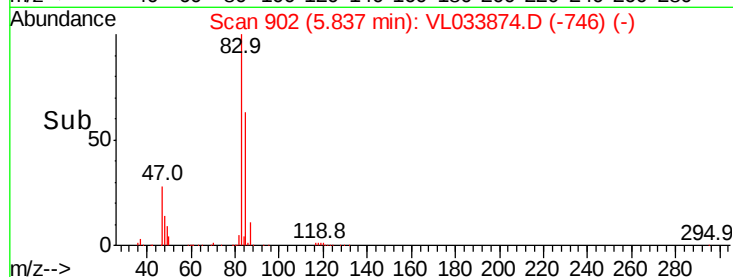
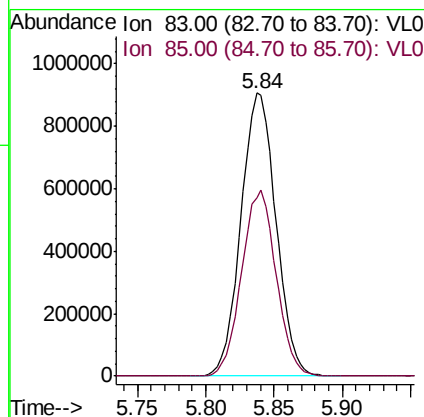
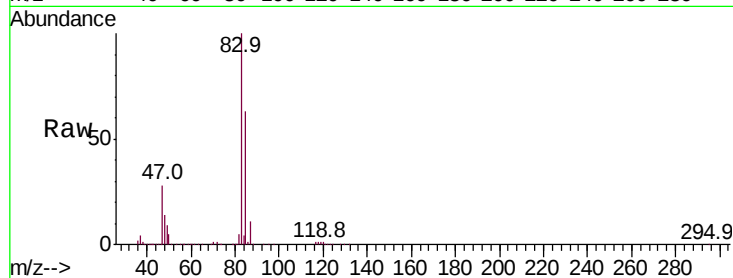
#29
Chloroform
Concen: 8.984 ppbv
RT: 5.84 min Scan# 902
Delta R.T. 0.00 min
Lab File: VL033874.D
Acq: 7 Jun 2019 2:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 83 Resp: 1619817
Ion Ratio Lower Upper
83 100
85 63.1 50.5 75.7

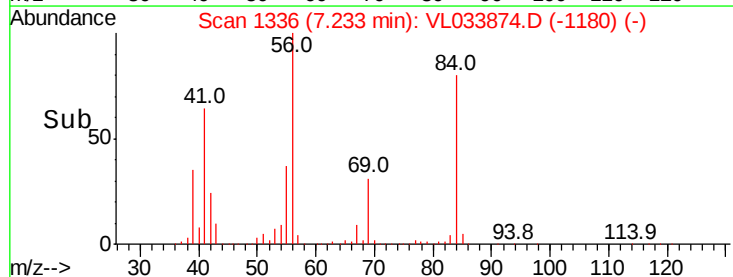
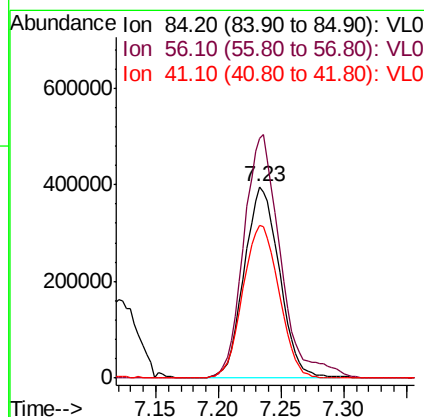
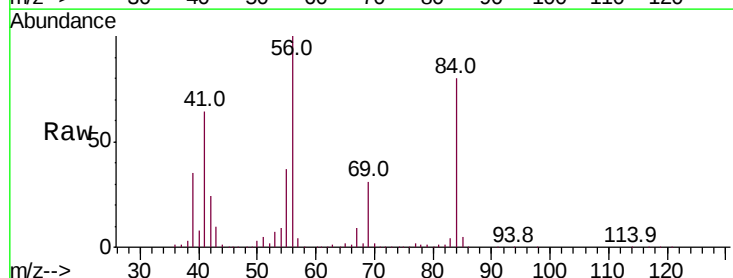
Manual Integrations
APPROVED

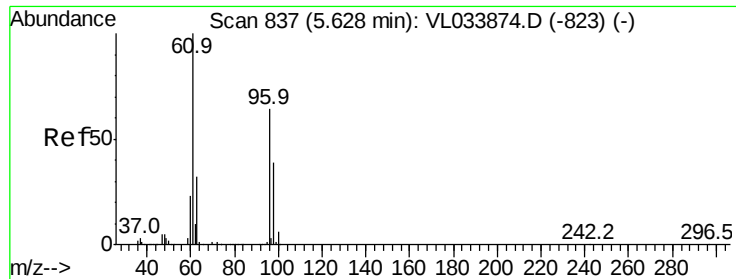
MMDadoda
6/11/2019 9:18:11 AM



#30
Cyclohexane
Concen: 9.557 ppbv
RT: 7.23 min Scan# 1336
Delta R.T. 0.00 min
Lab File: VL033874.D
Acq: 7 Jun 2019 2:03

Tgt Ion: 84 Resp: 776453
Ion Ratio Lower Upper
84 100
56 132.5 105.8 158.8
41 82.0 65.7 98.5





#31

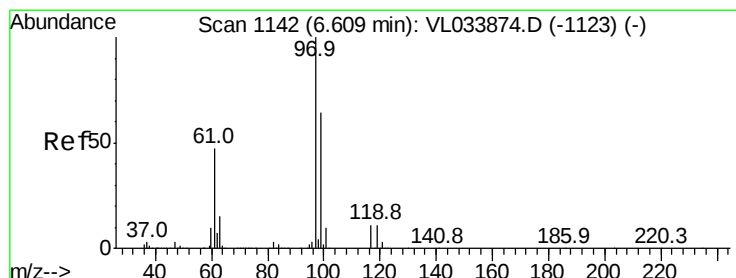
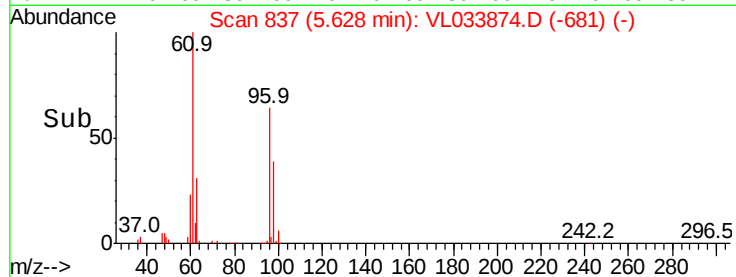
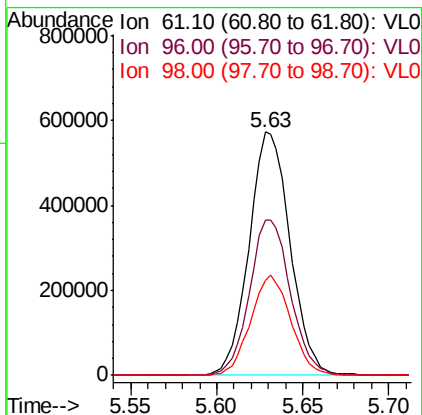
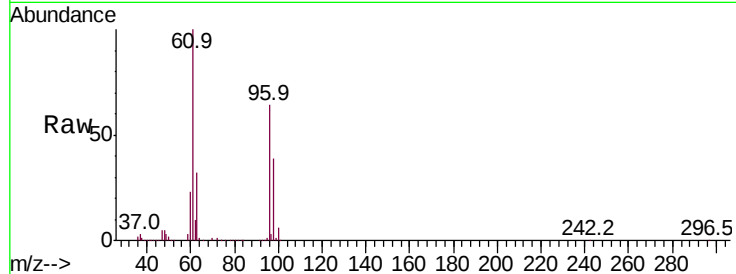
cis-1,2-Dichloroethene
Concen: 9.700 ppbv
RT: 5.63 min Scan# 837
Delta R.T. 0.00 min
Lab File: VL033874.D
Acq: 7 Jun 2019 2:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	63.6	50.9	76.3
98	39.3	31.4	47.2

Manual Integrations
APPROVED

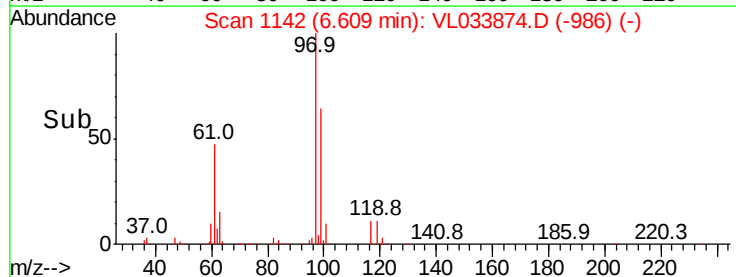
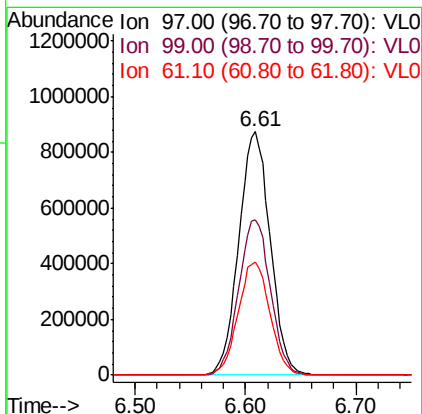
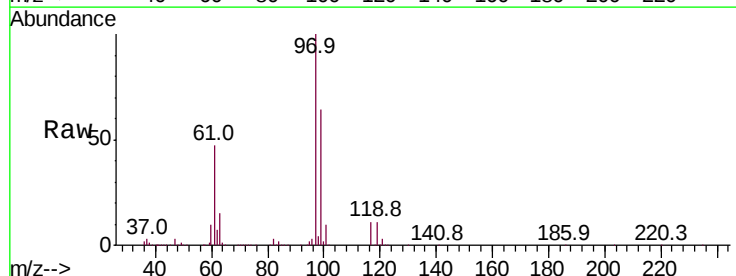
MMDadoda
6/11/2019 9:18:11 AM

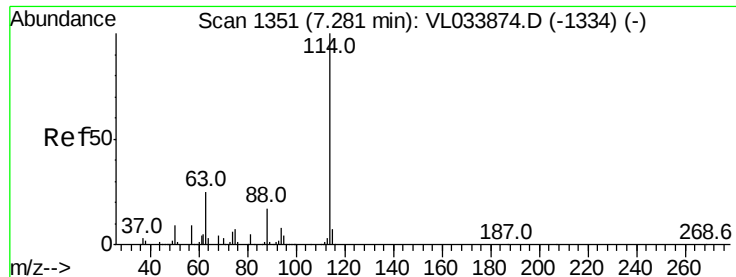


#32

1,1,1-Trichloroethane
Concen: 9.546 ppbv
RT: 6.61 min Scan# 1142
Delta R.T. 0.00 min
Lab File: VL033874.D
Acq: 7 Jun 2019 2:03

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.7	77.5
61	47.1	37.7	56.5





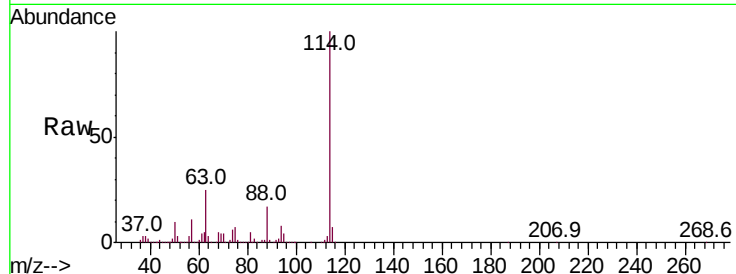
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1351
 Delta R.T. 0.00 min
 Lab File: VL033874.D
 Acq: 7 Jun 2019 2:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

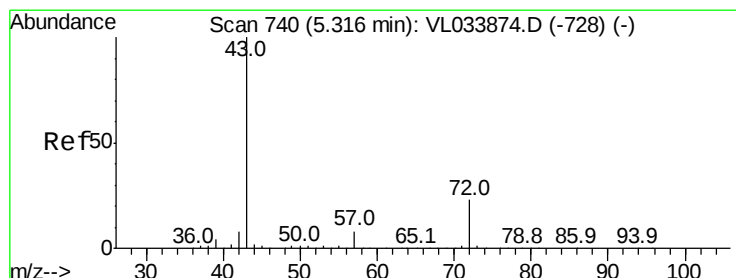
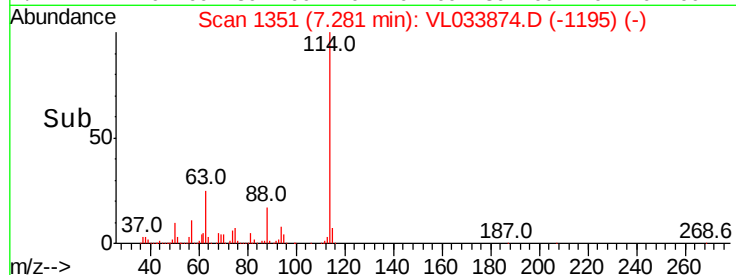
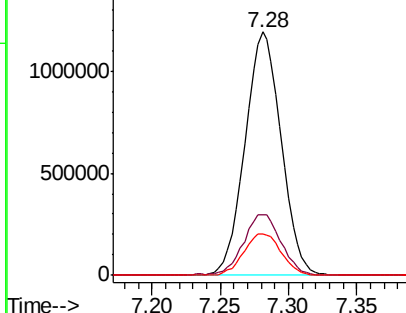
Tot Ion:114 Resp: 2190027
 Ion Ratio Lower Upper
 114 100
 63 26.4 21.1 31.7
 88 17.8 14.2 21.4

Manual Integrations
 APPROVED

MMDadoda
 6/11/2019 9:18:11 AM

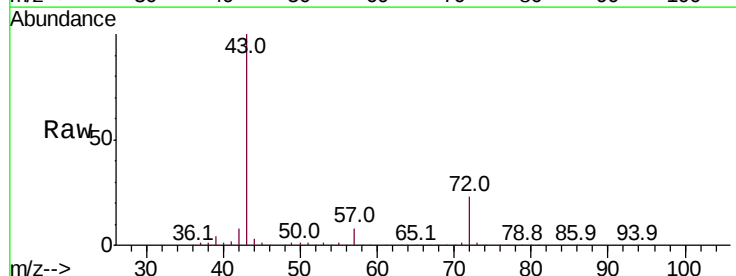


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

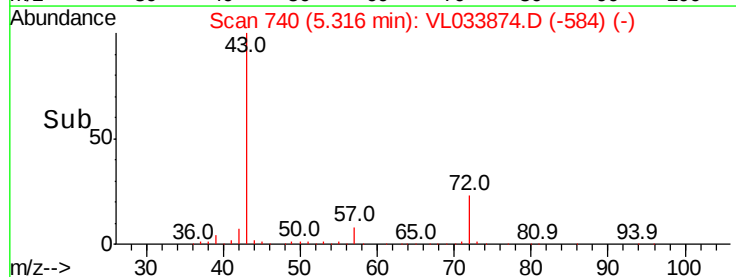
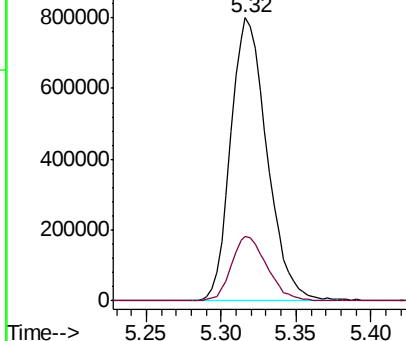


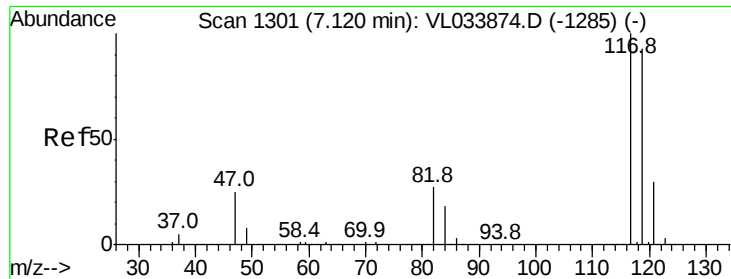
#34
 2-Butanone
 Concen: 9.946 ppbv
 RT: 5.32 min Scan# 740
 Delta R.T. 0.00 min
 Lab File: VL033874.D
 Acq: 7 Jun 2019 2:03

Tgt Ion: 43 Resp: 1346538
 Ion Ratio Lower Upper
 43 100
 72 22.5 17.9 26.9



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





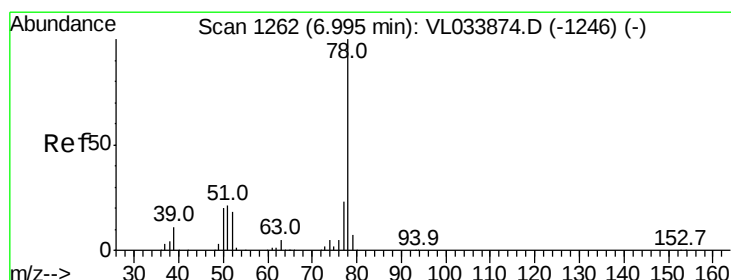
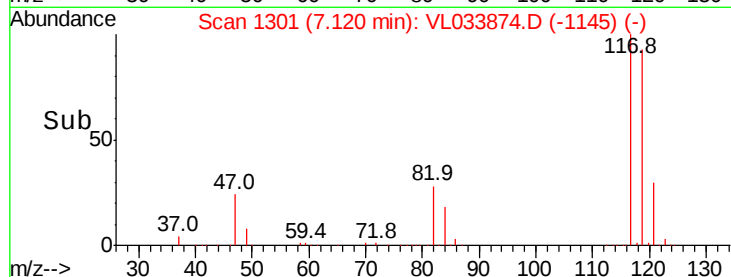
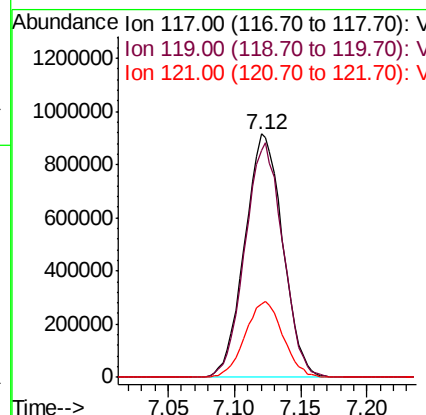
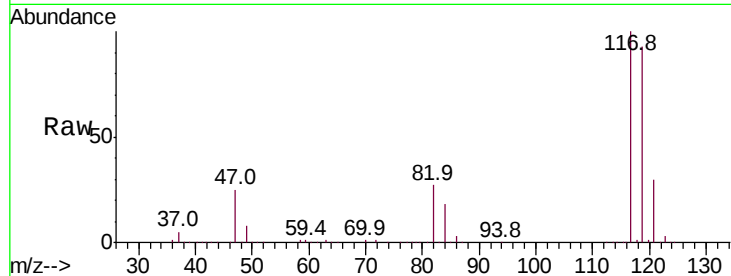
#35
Carbon Tetrachloride
Concen: 10.396 ppbv
RT: 7.12 min Scan# 1301
Delta R.T. 0.00 min
Lab File: VL033874.D
Acq: 7 Jun 2019 2:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion:117 Resp: 1827018
Ion Ratio Lower Upper
117 100
119 93.2 74.6 111.8
121 30.0 24.0 36.0

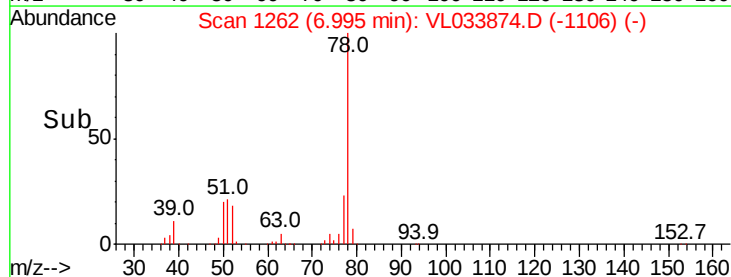
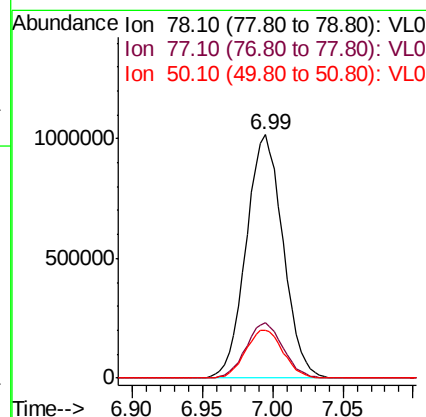
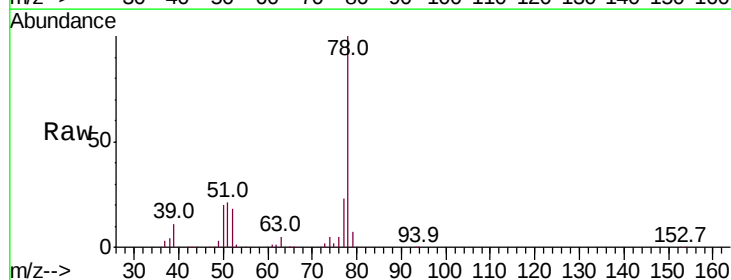
Manual Integrations
APPROVED

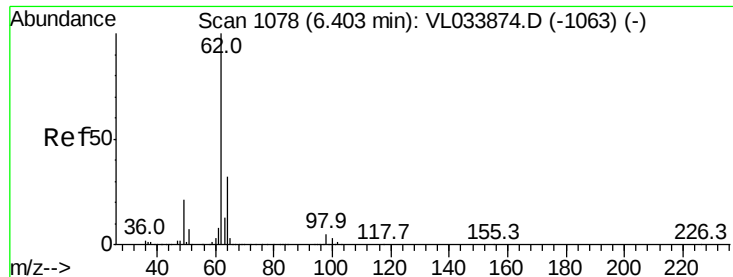
MMDadoda
6/11/2019 9:18:11 AM



#36
Benzene
Concen: 9.538 ppbv
RT: 6.99 min Scan# 1262
Delta R.T. 0.00 min
Lab File: VL033874.D
Acq: 7 Jun 2019 2:03

Tgt Ion: 78 Resp: 1866244
Ion Ratio Lower Upper
78 100
77 22.7 18.2 27.2
50 19.9 15.9 23.9





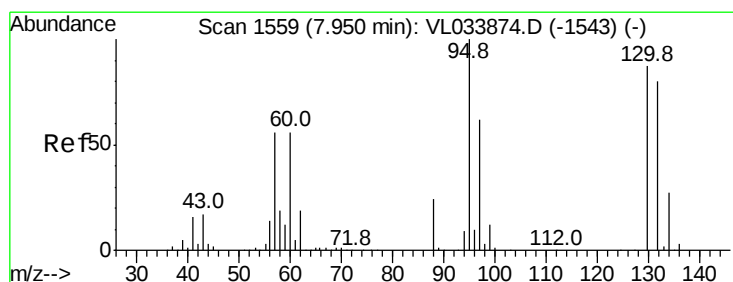
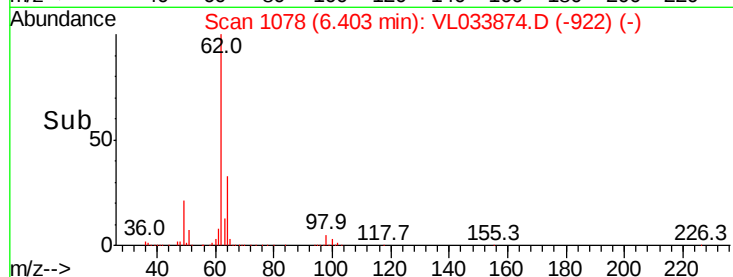
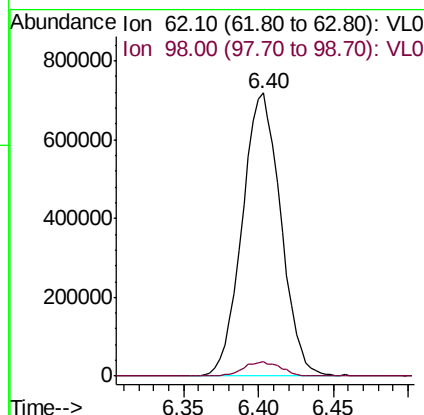
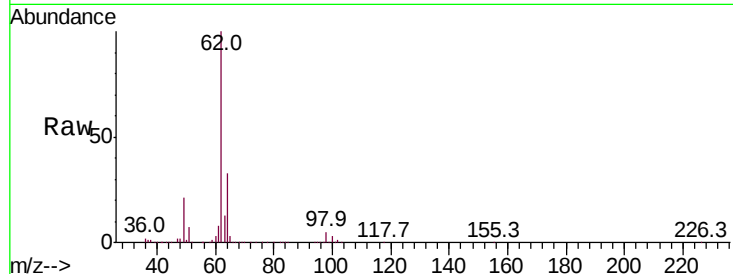
#37
 1,2-Dichloroethane
 Concen: 10.005 ppbv
 RT: 6.40 min Scan# 1078
 Delta R.T. 0.00 min
 Lab File: VL033874.D
 Acq: 7 Jun 2019 2:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 62 Resp: 1291603
 Ion Ratio Lower Upper
 62 100
 98 5.0 4.0 6.0

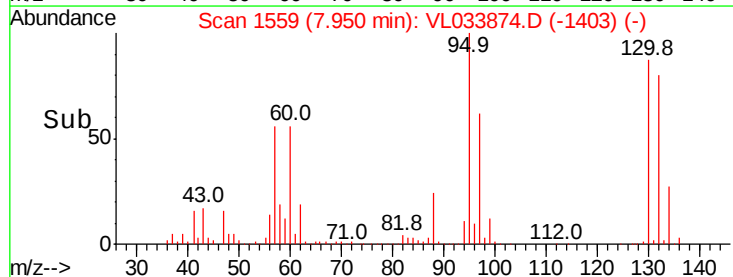
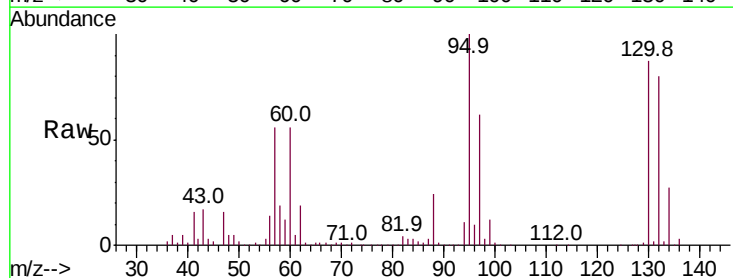
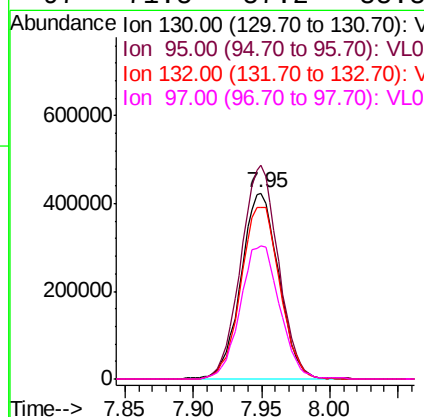
Manual Integrations
 APPROVED

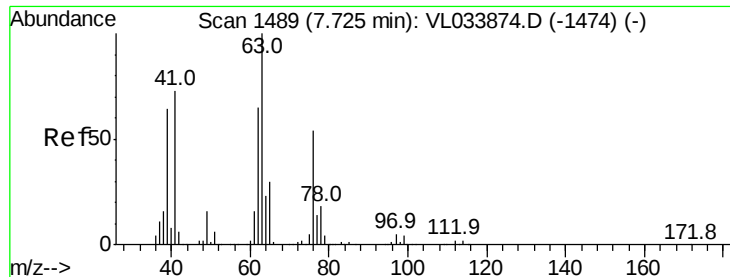
MMDadoda
 6/11/2019 9:18:11 AM



#38
 Trichloroethene
 Concen: 11.019 ppbv
 RT: 7.95 min Scan# 1559
 Delta R.T. 0.00 min
 Lab File: VL033874.D
 Acq: 7 Jun 2019 2:03

Tgt Ion:130 Resp: 817479
 Ion Ratio Lower Upper
 130 100
 95 115.0 92.0 138.0
 132 92.3 73.8 110.8
 97 71.5 57.2 85.8





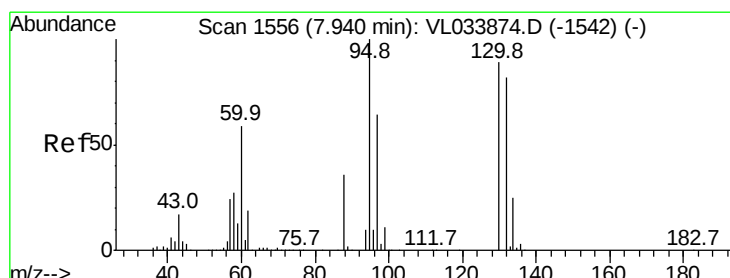
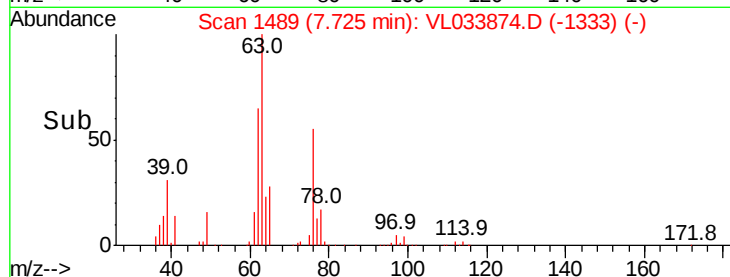
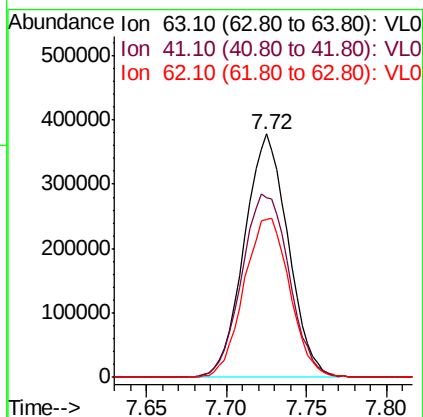
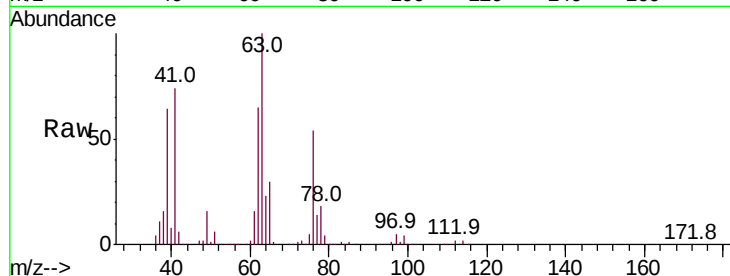
#39
 1,2-Dichloropropane
 Concen: 9.661 ppbv
 RT: 7.72 min Scan# 1489
 Delta R.T. 0.00 min
 Lab File: VL033874.D
 Acq: 7 Jun 2019 2:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	73.4	58.7	88.1
62	64.9	51.9	77.9

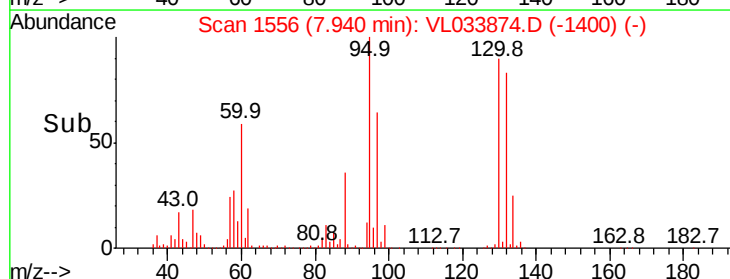
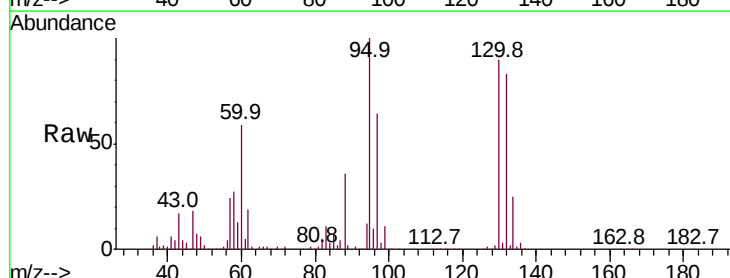
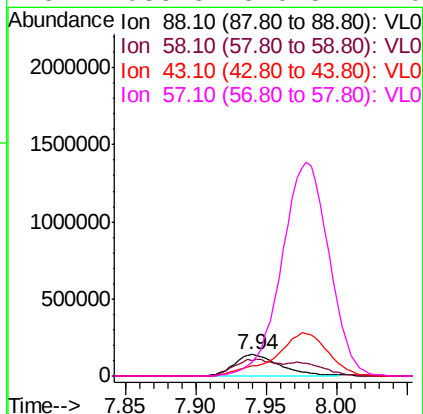
Manual Integrations
 APPROVED

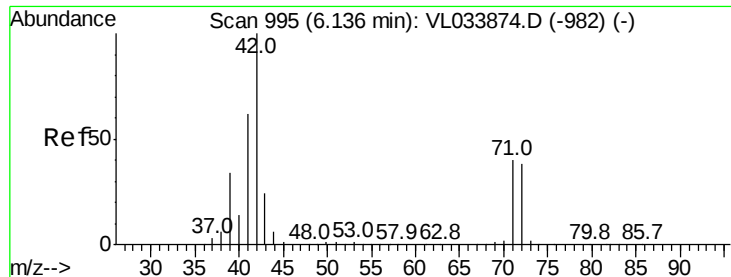
MMDadoda
 6/11/2019 9:18:11 AM



#40
 1,4-Dioxane
 Concen: 10.154 ppbv
 RT: 7.94 min Scan# 1556
 Delta R.T. 0.00 min
 Lab File: VL033874.D
 Acq: 7 Jun 2019 2:03

Tgt Ion	Ratio	Lower	Upper
88	100		
58	125.0	100.0	150.0
43	230.9	184.7	277.1
57	1033.5	826.8	1240.2





#41

Tetrahydrofuran

Concen: 9.896 ppbv

RT: 6.14 min Scan# 995

Delta R.T. 0.00 min

Lab File: VL033874.D

Acq: 7 Jun 2019 2:03

Instrument :

MSVOA_L

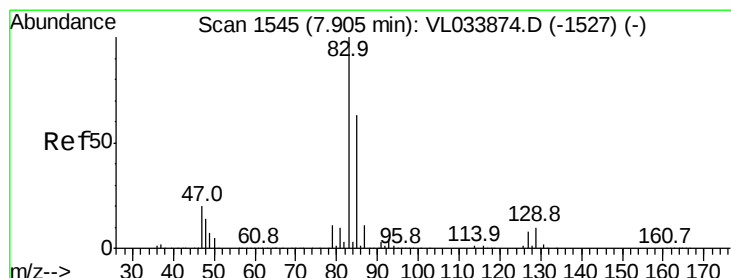
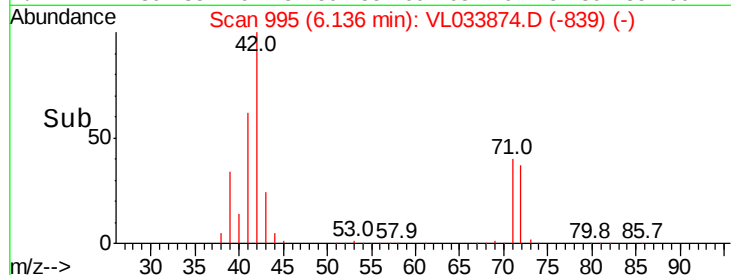
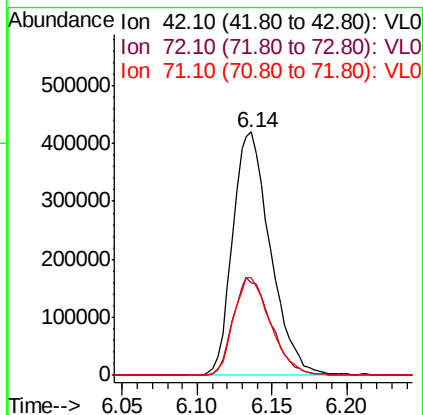
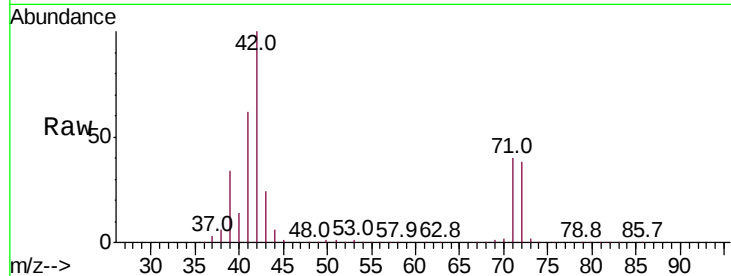
ClientSampleId :

VSTDICCC010

Tot Ion:	42	Resp:	736457
Ion Ratio	Lower	Upper	
42	100		
72	40.3	32.2	48.4
71	39.6	31.7	47.5

Manual Integrations
APPROVED

MMDadoda
6/11/2019 9:18:11 AM



#42

Bromodichloromethane

Concen: 10.148 ppbv

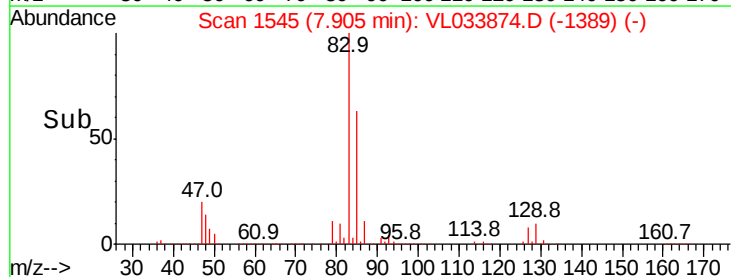
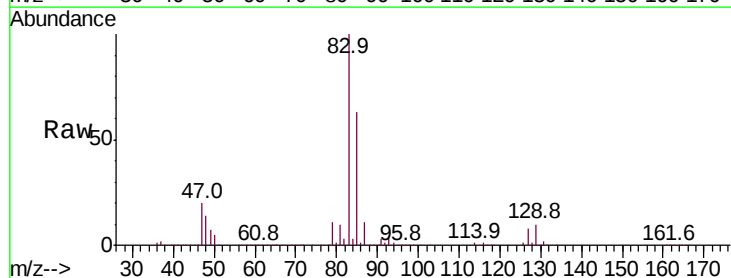
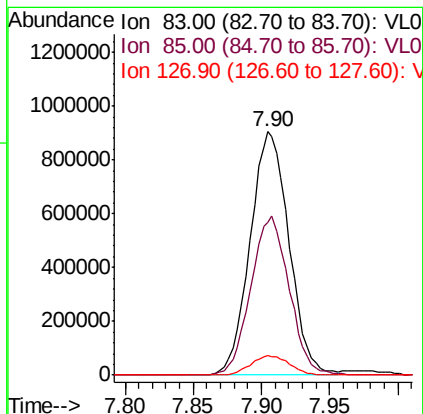
RT: 7.90 min Scan# 1545

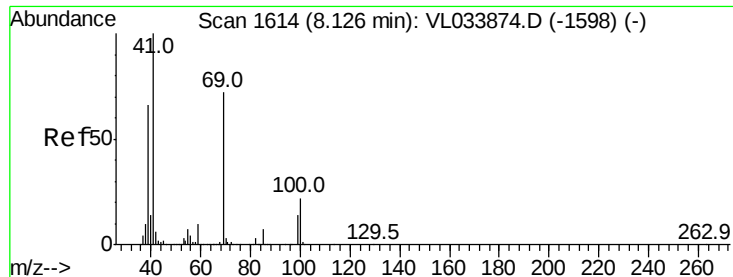
Delta R.T. 0.00 min

Lab File: VL033874.D

Acq: 7 Jun 2019 2:03

Tgt Ion:	83	Resp:	1785105
Ion Ratio	Lower	Upper	
83	100		
85	62.7	50.2	75.2
127	8.1	6.5	9.7





#43

Methyl Methacrylate

Concen: 10.558 ppbv

RT: 8.13 min Scan# 1614

Delta R.T. 0.00 min

Lab File: VL033874.D

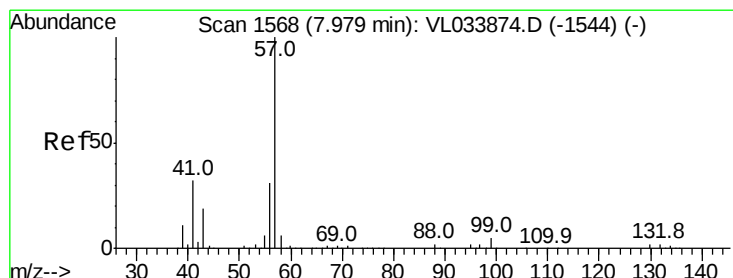
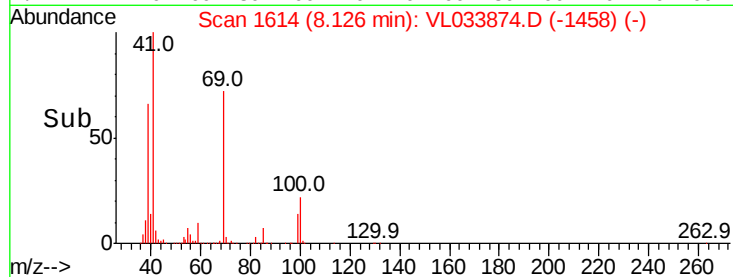
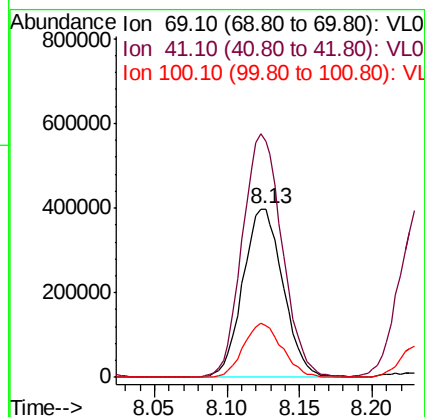
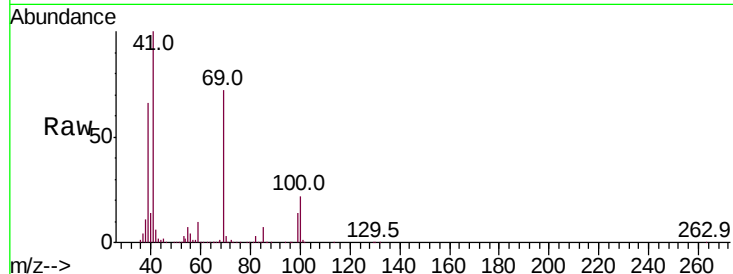
Acq: 7 Jun 2019 2:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
69	100		
41	143.0	114.3	171.5
100	31.0	24.8	37.2

Manual Integrations
APPROVED

MMDadoda
6/11/2019 9:18:11 AM



#44

2,2,4-Trimethylpentane

Concen: 9.733 ppbv

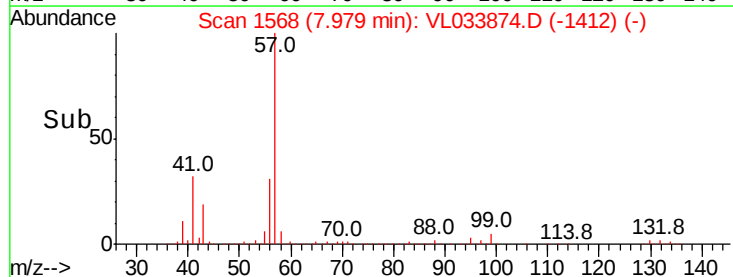
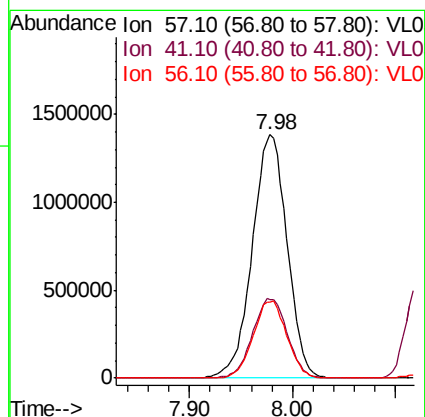
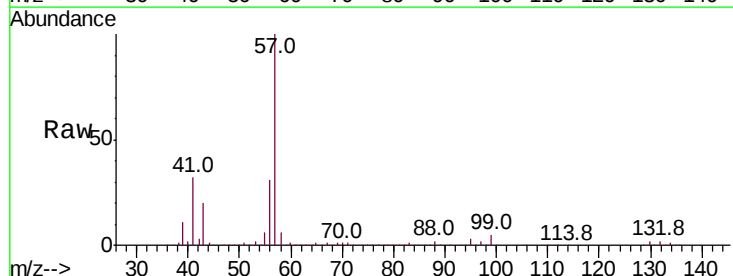
RT: 7.98 min Scan# 1568

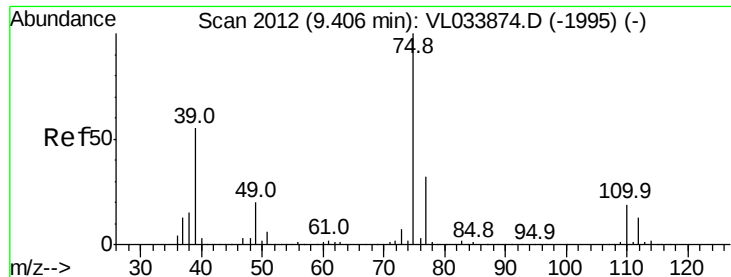
Delta R.T. 0.00 min

Lab File: VL033874.D

Acq: 7 Jun 2019 2:03

Tgt Ion	Ratio	Lower	Upper
57	100		
41	32.7	26.1	39.1
56	30.7	24.6	36.8





#45

t-1,3-Dichloropropene

Concen: 11.668 ppbv

RT: 9.41 min Scan# 2012

Delta R.T. 0.00 min

Lab File: VL033874.D

Acq: 7 Jun 2019 2:03

Tot Ion: 75 Resp: 1073037

Ion Ratio Lower Upper

75 100

77 31.8 25.4 38.2

Instrument :

MSVOA_L

ClientSampleId :

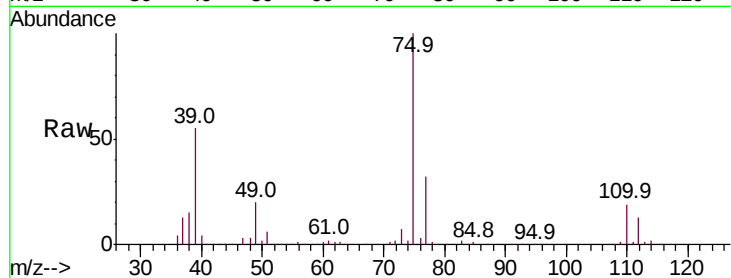
VSTDICCC010

Manual Integrations

APPROVED

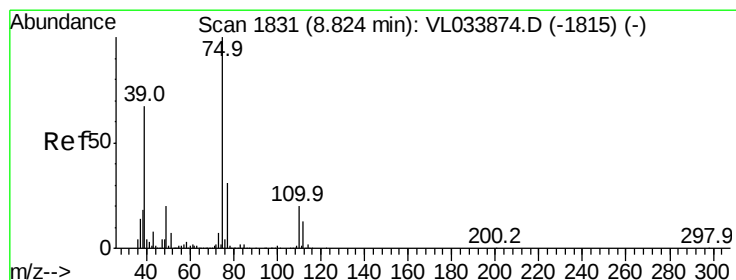
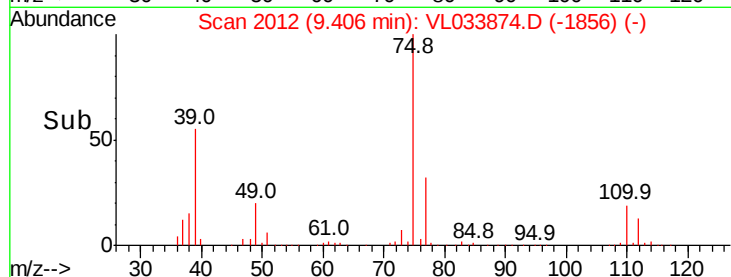
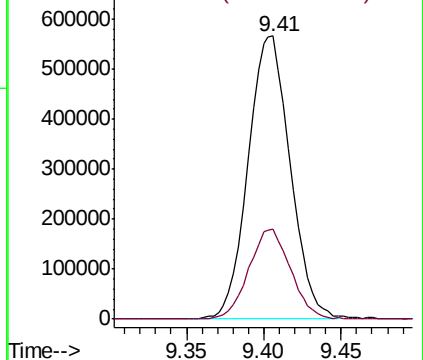
MMDadoda

6/11/2019 9:18:11 AM



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 11.198 ppbv

RT: 8.82 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VL033874.D

Acq: 7 Jun 2019 2:03

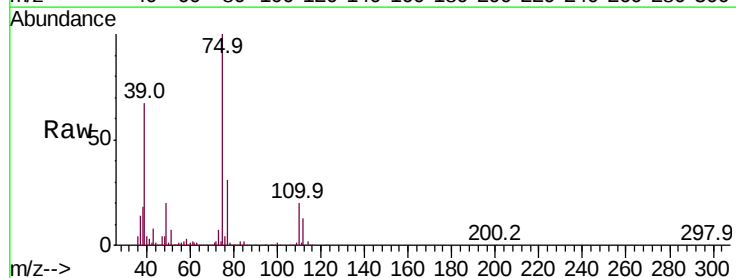
Tgt Ion: 75 Resp: 1201008

Ion Ratio Lower Upper

75 100

39 67.3 53.8 80.8

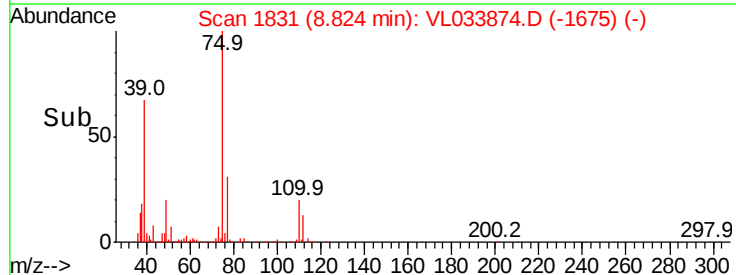
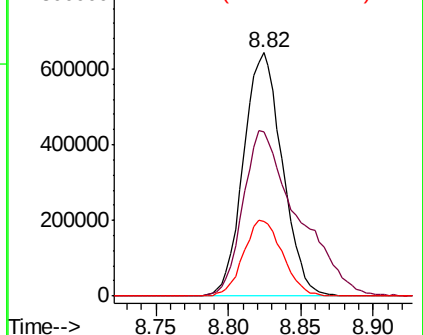
77 30.7 24.6 36.8

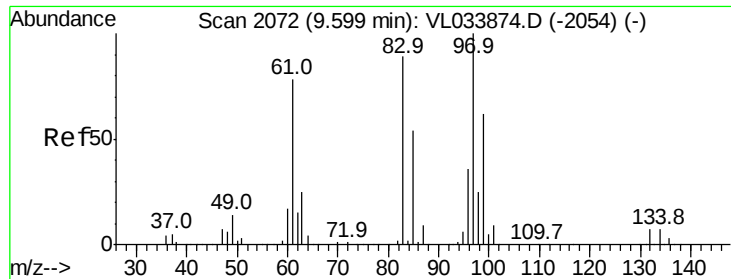


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





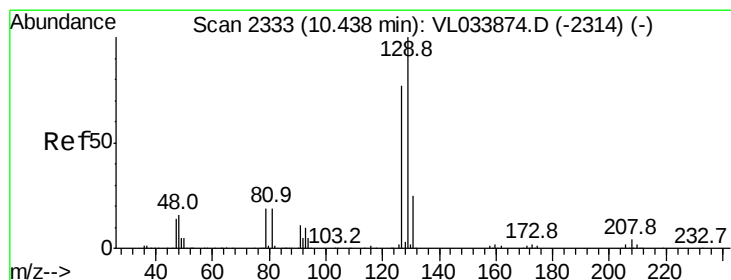
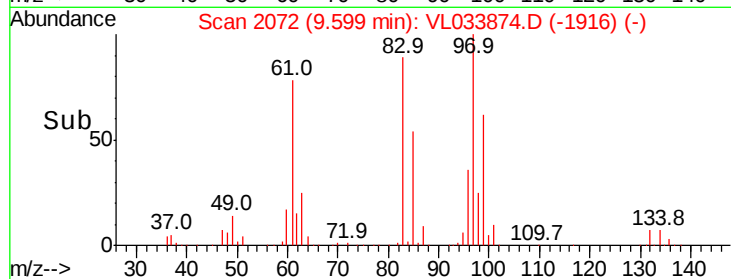
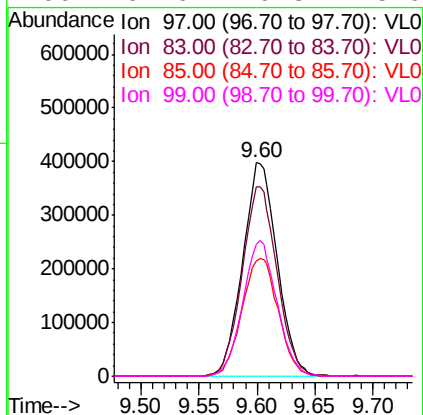
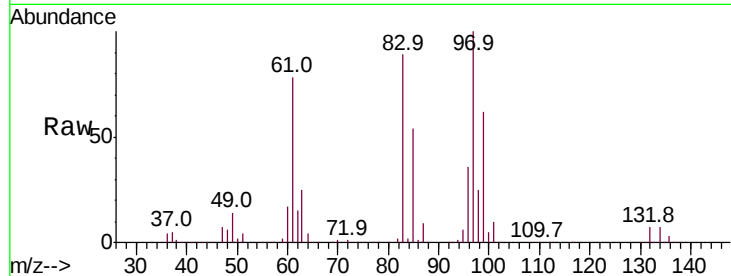
#47
 1,1,2-Trichloroethane
 Concen: 9.845 ppbv
 RT: 9.60 min Scan# 2072
 Delta R.T. 0.00 min
 Lab File: VL033874.D
 Acq: 7 Jun 2019 2:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
97	100		
83	88.6	70.9	106.3
85	53.8	43.0	64.6
99	61.6	49.3	73.9

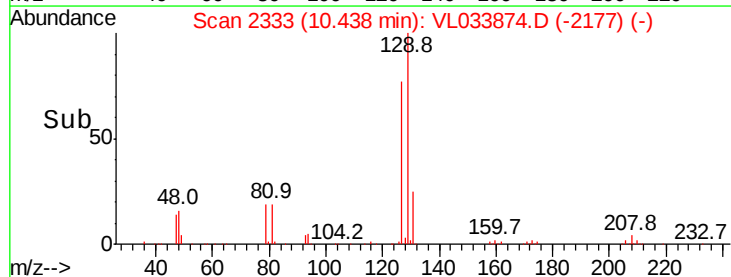
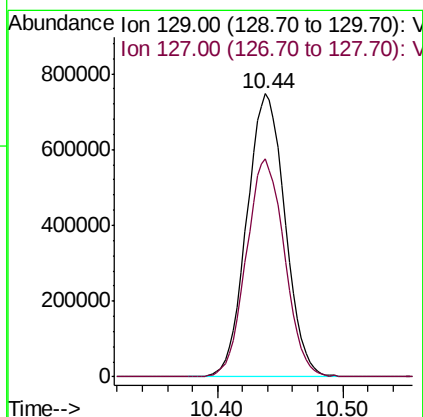
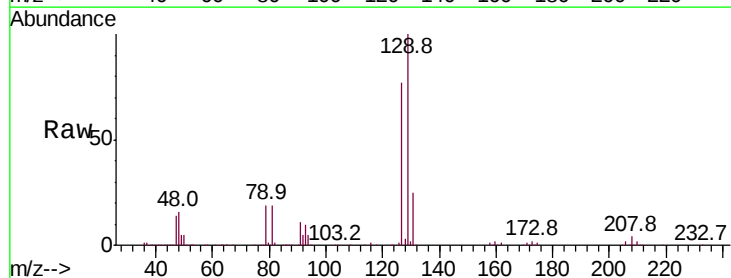
Manual Integrations
 APPROVED

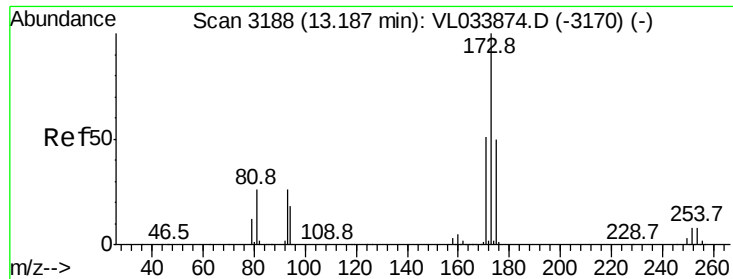
MMDadoda
 6/11/2019 9:18:11 AM



#48
 Dibromochloromethane
 Concen: 10.852 ppbv
 RT: 10.44 min Scan# 2333
 Delta R.T. 0.00 min
 Lab File: VL033874.D
 Acq: 7 Jun 2019 2:03

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.1	38.6	115.7





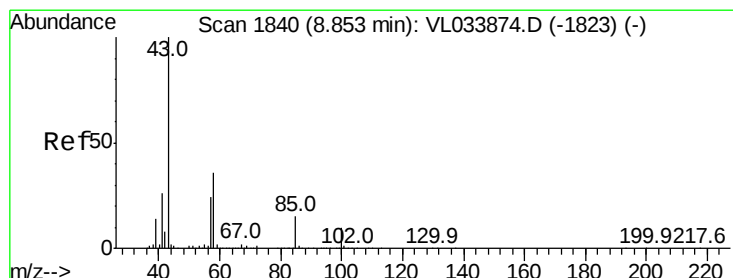
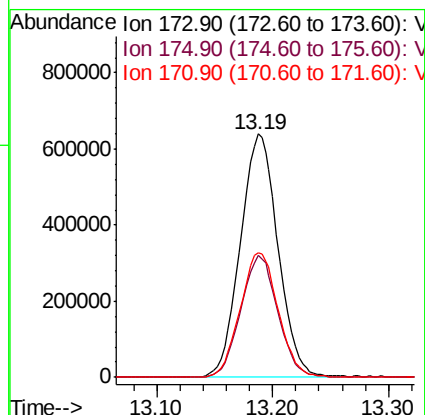
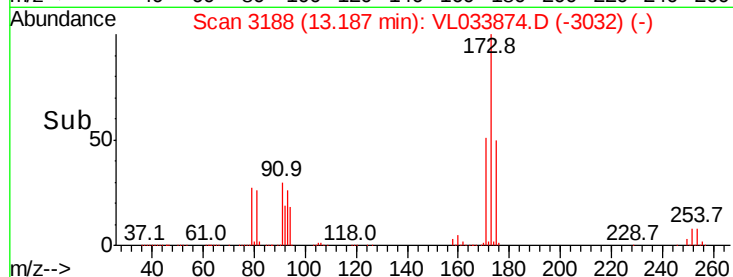
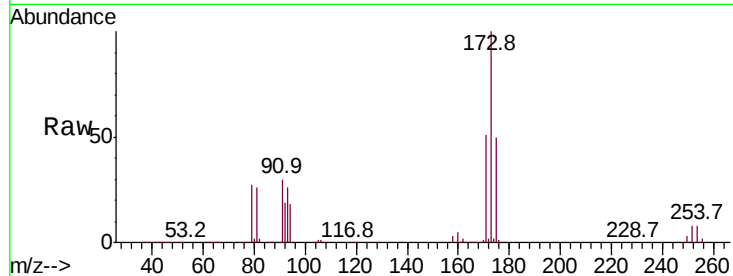
#49
Bromoform
Concen: 11.518 ppbv
RT: 13.19 min Scan# 3188
Delta R.T. 0.00 min
Lab File: VL033874.D
Acq: 7 Jun 2019 2:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion:173 Resp: 1444043
Ion Ratio Lower Upper
173 100
175 49.5 39.6 59.4
171 52.1 41.8 62.8

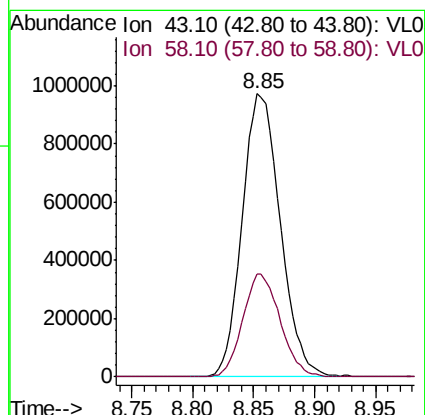
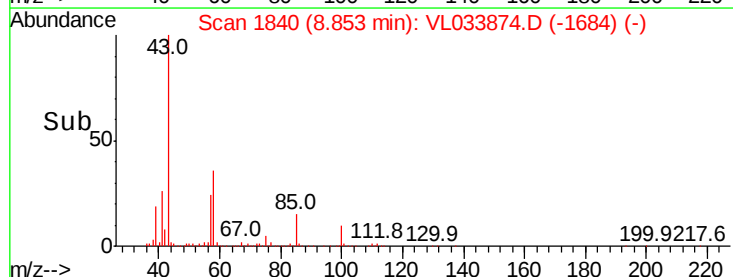
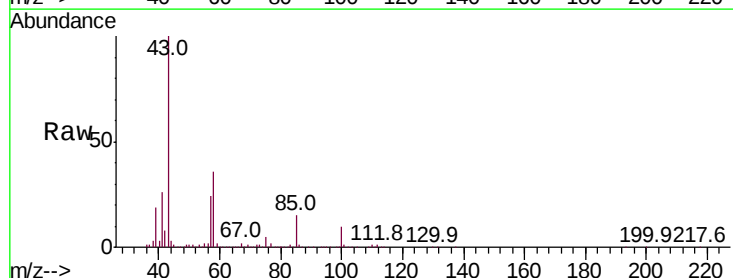
Manual Integrations
APPROVED

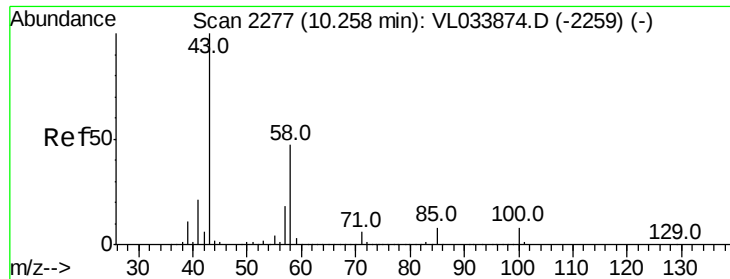
MMDadoda
6/11/2019 9:18:11 AM



#50
4-Methyl-2-Pentanone
Concen: 10.163 ppbv
RT: 8.85 min Scan# 1840
Delta R.T. 0.00 min
Lab File: VL033874.D
Acq: 7 Jun 2019 2:03

Tgt Ion: 43 Resp: 2096288
Ion Ratio Lower Upper
43 100
58 35.7 28.6 42.8





#51

2-Hexanone

Concen: 10.805 ppbv

RT: 10.26 min Scan# 2277

Delta R.T. 0.00 min

Lab File: VL033874.D

Acq: 7 Jun 2019 2:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 1739962

Ion Ratio Lower Upper

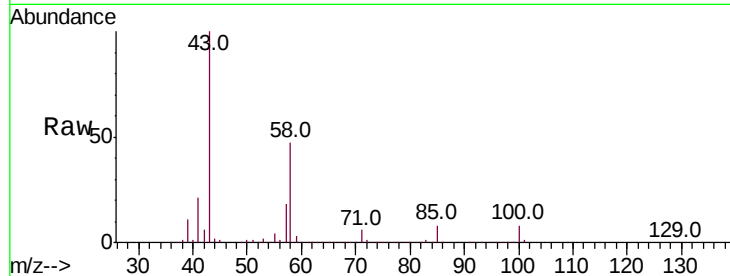
43 100

58 47.8 38.2 57.4

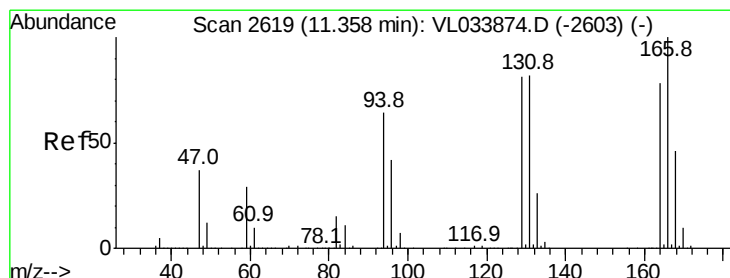
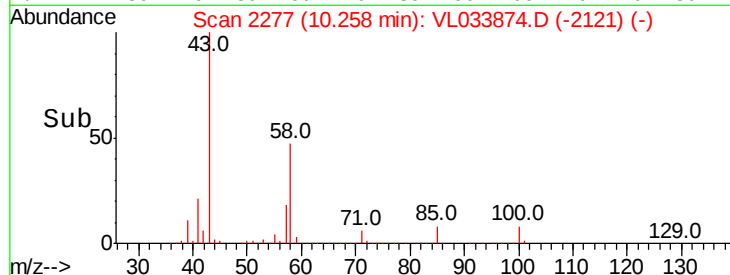
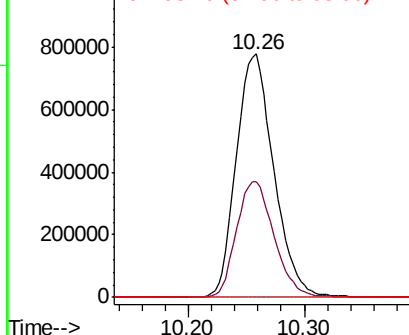
98 0.3 0.2 0.2#

Manual Integrations
APPROVED

MMDadoda
6/11/2019 9:18:11 AM



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 10.868 ppbv

RT: 11.36 min Scan# 2619

Delta R.T. 0.00 min

Lab File: VL033874.D

Acq: 7 Jun 2019 2:03

Tgt Ion:164 Resp: 757292

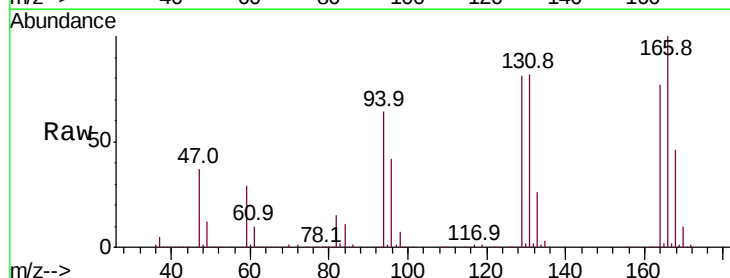
Ion Ratio Lower Upper

164 100

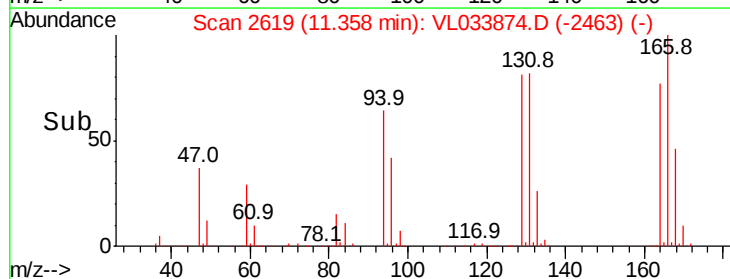
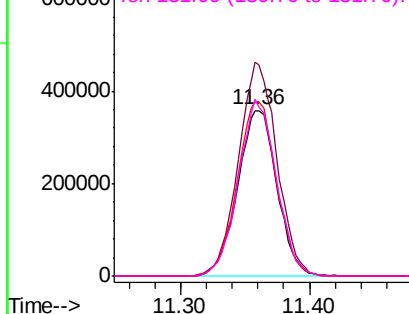
166 128.9 103.1 154.7

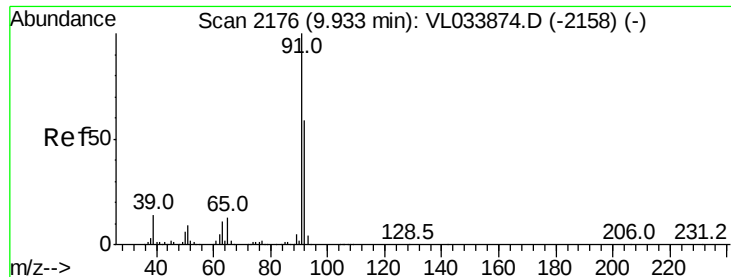
129 104.9 83.9 125.9

131 106.4 85.1 127.7



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 10.788 ppbv

RT: 9.93 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VL033874.D

Acq: 7 Jun 2019 2:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 2295479

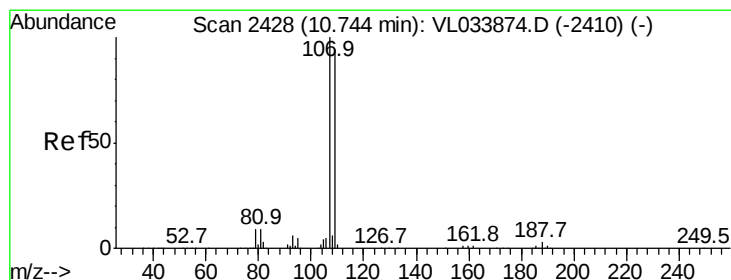
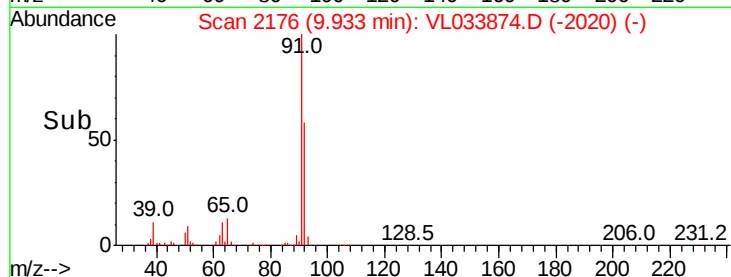
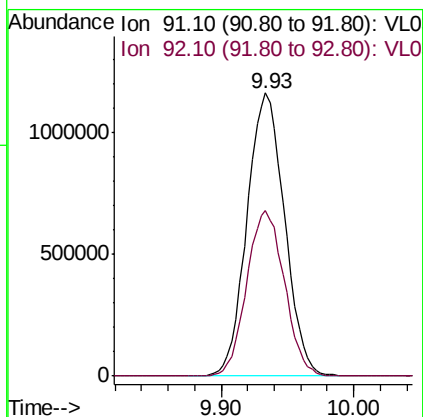
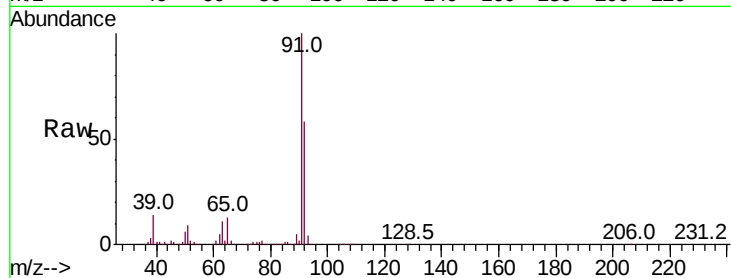
Ion Ratio Lower Upper

91 100

92 58.9 47.0 70.6

Manual Integrations
APPROVED

MMDadoda
6/11/2019 9:18:11 AM



#54

1,2-Dibromoethane

Concen: 10.269 ppbv

RT: 10.74 min Scan# 2428

Delta R.T. 0.00 min

Lab File: VL033874.D

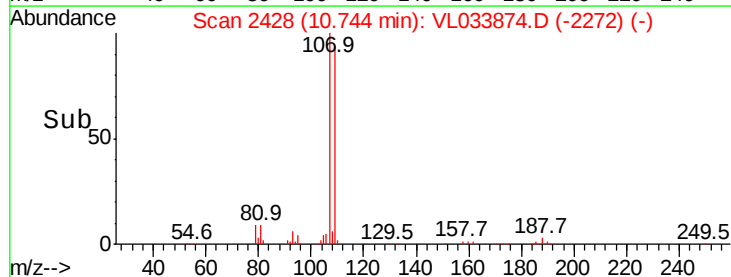
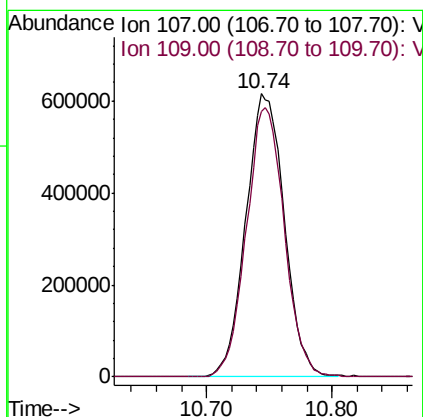
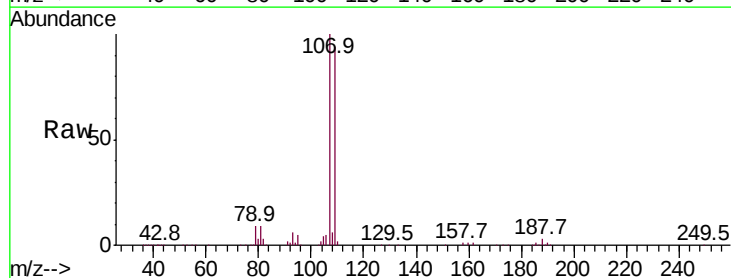
Acq: 7 Jun 2019 2:03

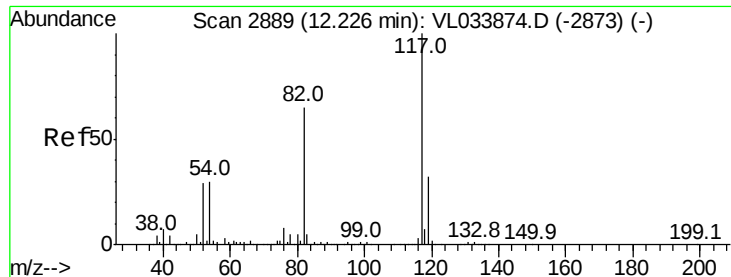
Tgt Ion: 107 Resp: 1314232

Ion Ratio Lower Upper

107 100

109 93.6 74.9 112.3





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2889

Delta R.T. 0.00 min

Lab File: VL033874.D

Acq: 7 Jun 2019 2:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:117 Resp: 2379901

Ion	Ratio	Lower	Upper
117	100		
82	62.5	50.2	75.2
119	29.0	24.8	37.2

117 100

82 62.5 50.2 75.2

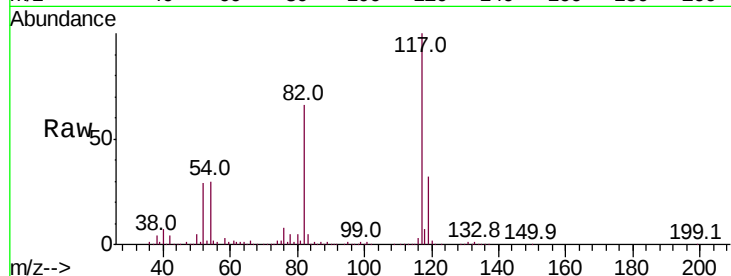
119 29.0 24.8 37.2

Manual Integrations

APPROVED

MMDadoda

6/11/2019 9:18:11 AM

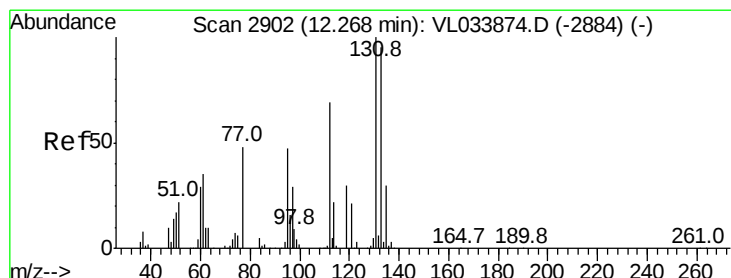
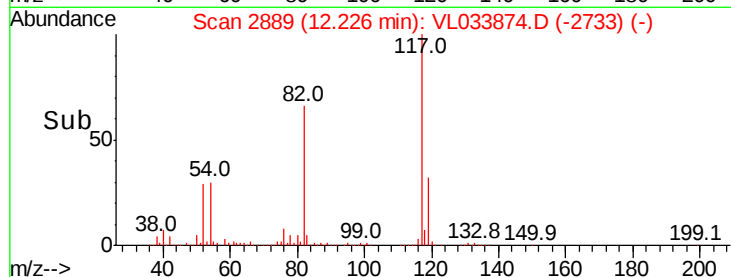
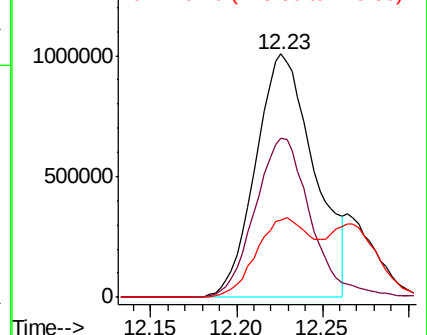


Abundance

Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 9.675 ppbv

RT: 12.27 min Scan# 2902

Delta R.T. 0.00 min

Lab File: VL033874.D

Acq: 7 Jun 2019 2:03

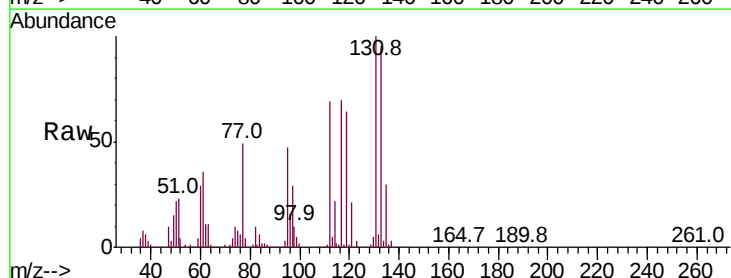
Tgt Ion:131 Resp: 1056806

Ion	Ratio	Lower	Upper
131	100		
133	95.6	76.5	114.7
119	57.9	42.6	64.0

131 100

133 95.6 76.5 114.7

119 57.9 42.6 64.0

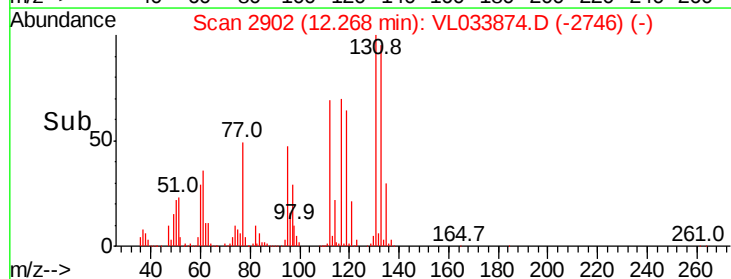
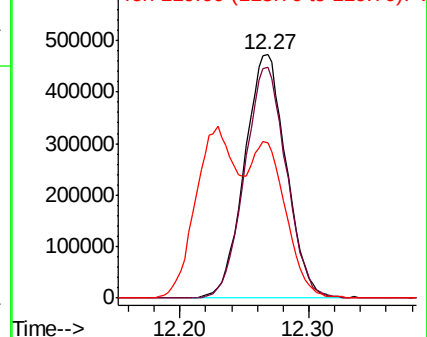


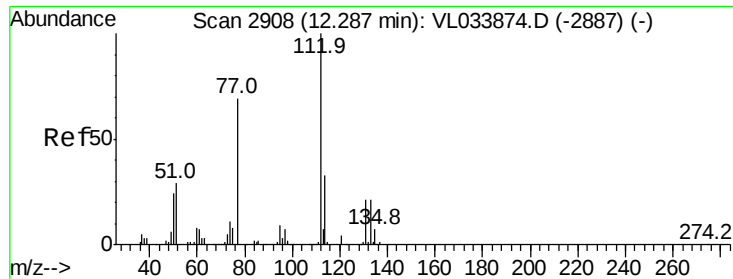
Abundance

Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





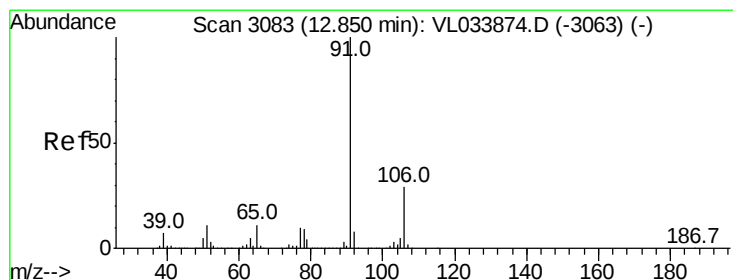
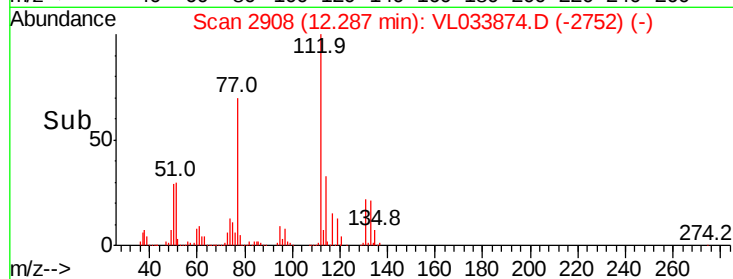
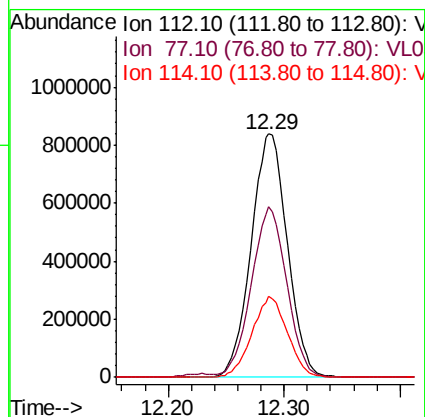
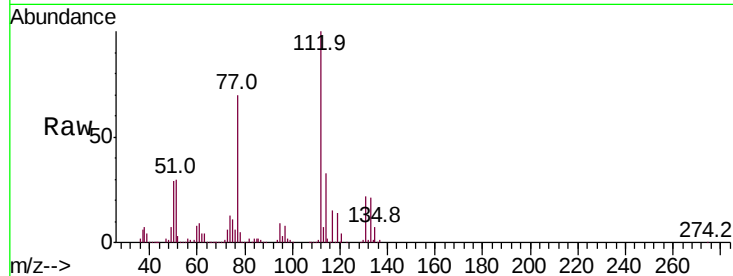
#57
Chlorobenzene
Concen: 9.412 ppbv
RT: 12.29 min Scan# 2908
Delta R.T. 0.00 min
Lab File: VL033874.D
Acq: 7 Jun 2019 2:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
112	100		
77	69.7	55.8	83.6
114	33.1	29.8	36.4

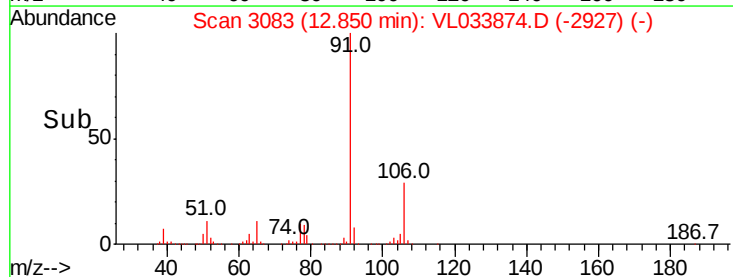
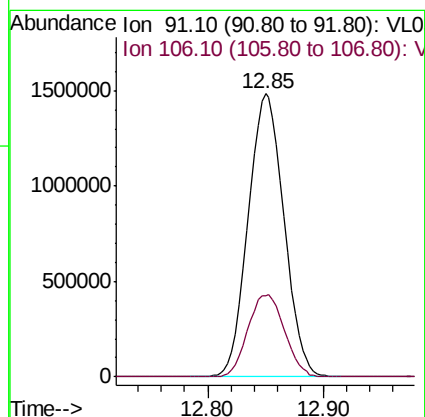
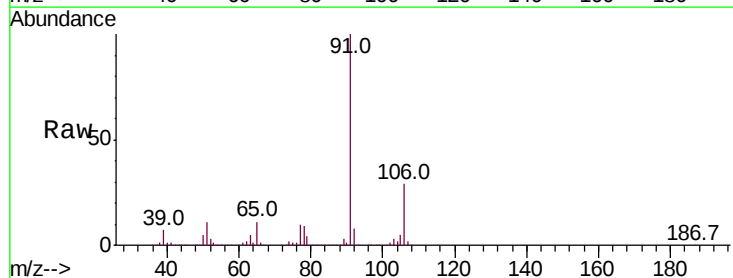
Manual Integrations
APPROVED

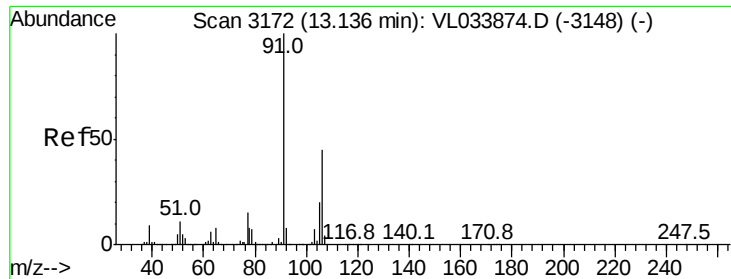
MMDadoda
6/11/2019 9:18:11 AM



#58
Ethyl Benzene
Concen: 10.309 ppbv
RT: 12.85 min Scan# 3083
Delta R.T. 0.00 min
Lab File: VL033874.D
Acq: 7 Jun 2019 2:03

Tgt Ion	Ratio	Lower	Upper
91	100		
106	28.8	23.0	34.6





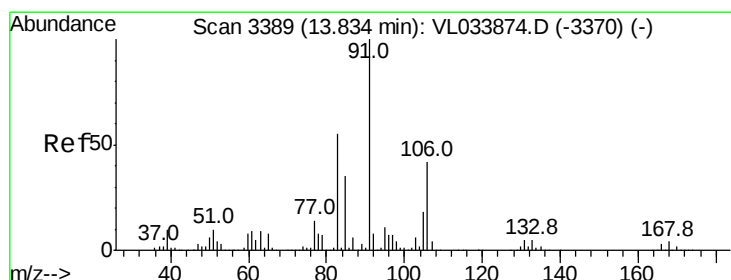
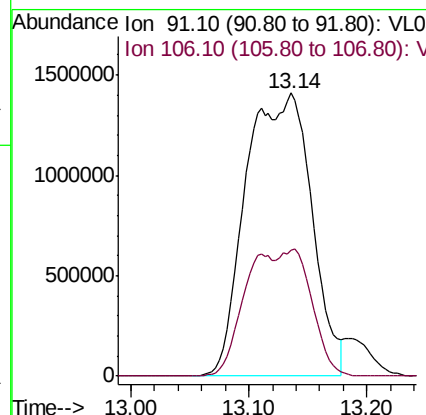
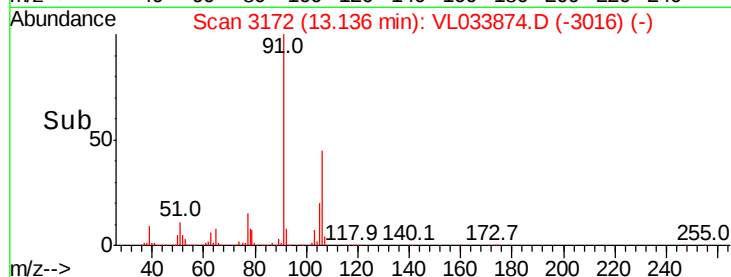
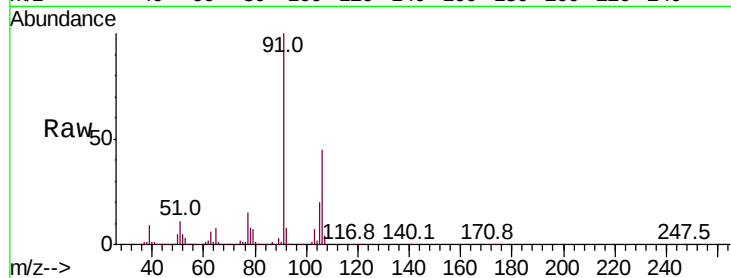
#59
m/p-Xylene
Concen: 20.064 ppbv m
RT: 13.14 min Scan# 3172
Delta R.T. 0.00 min
Lab File: VL033874.D
Acq: 7 Jun 2019 2:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 91 Resp: 5459685
Ion Ratio Lower Upper
91 100
106 44.8 35.8 53.8

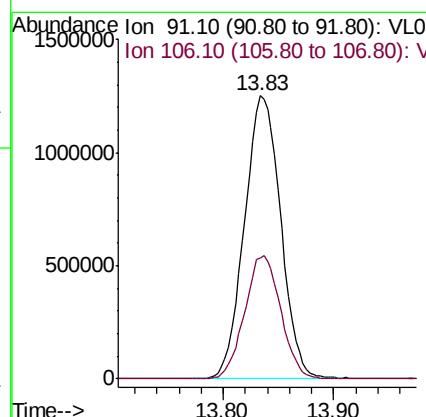
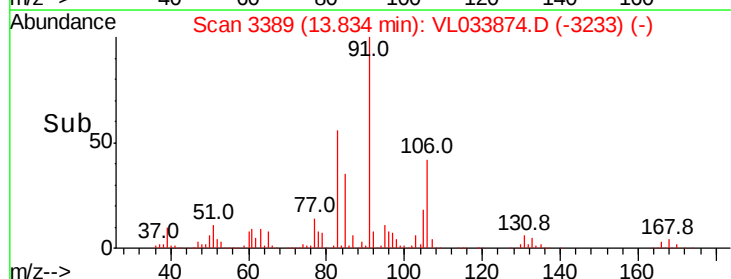
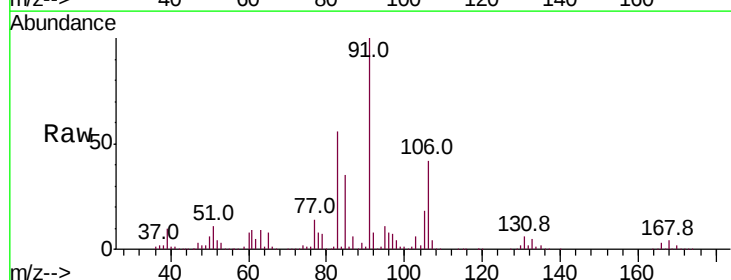
Manual Integrations
APPROVED

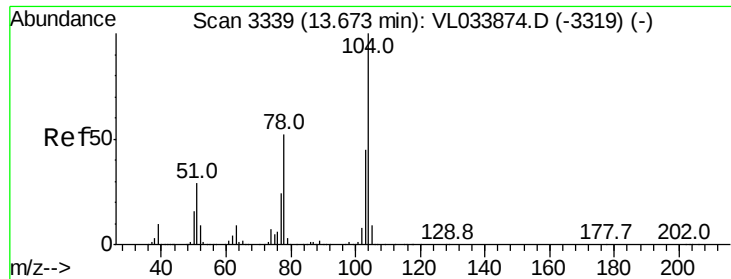
MMDadoda
6/11/2019 9:18:11 AM



#60
o-Xylene
Concen: 10.300 ppbv
RT: 13.83 min Scan# 3389
Delta R.T. 0.00 min
Lab File: VL033874.D
Acq: 7 Jun 2019 2:03

Tgt Ion: 91 Resp: 2851804
Ion Ratio Lower Upper
91 100
106 43.3 21.7 65.1





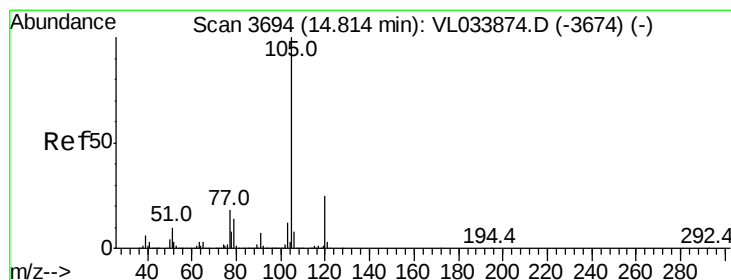
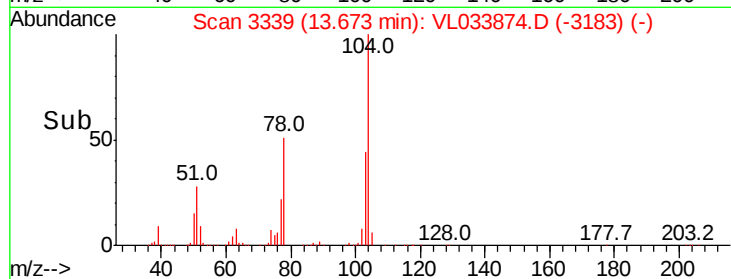
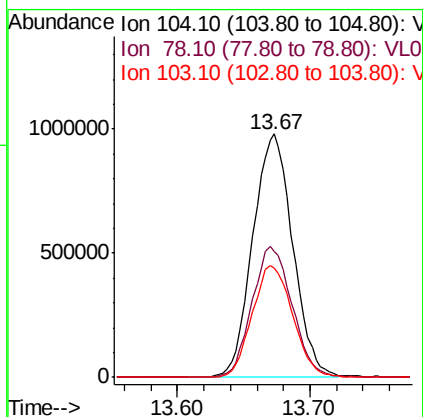
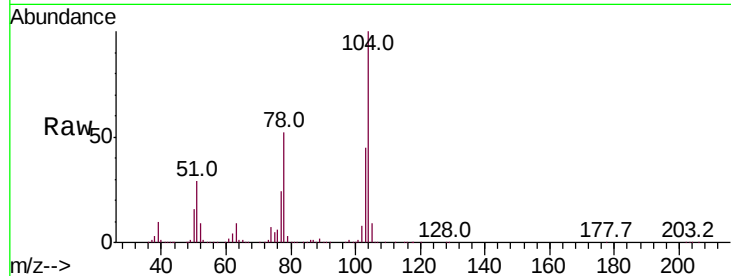
#61
Stvrene
Concen: 11.123 ppbv
RT: 13.67 min Scan# 3339
Delta R.T. 0.00 min
Lab File: VL033874.D
Acq: 7 Jun 2019 2:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
104	100		
78	54.3	43.4	65.0
103	47.0	37.6	56.4

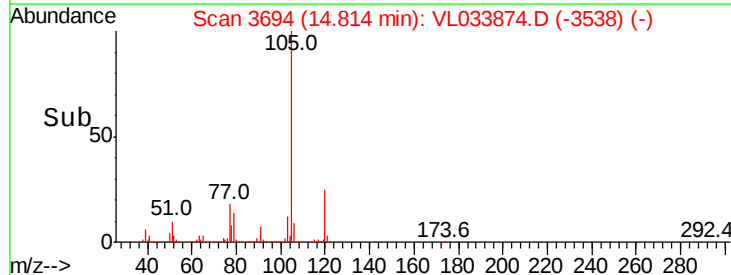
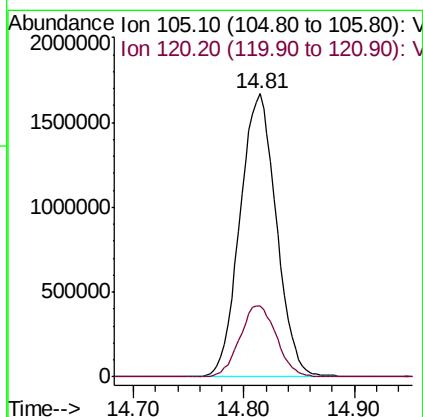
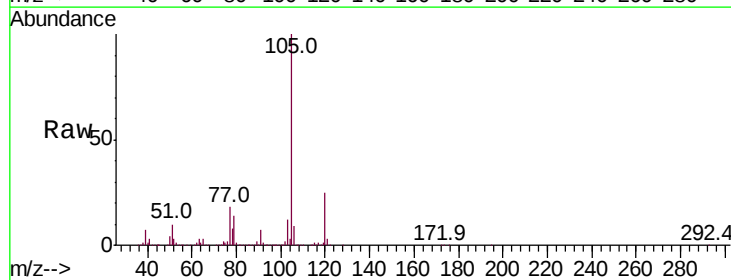
Manual Integrations
APPROVED

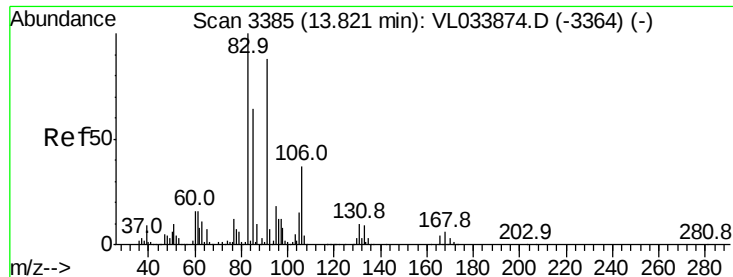
MMDadoda
6/11/2019 9:18:11 AM



#62
Isopropylbenzene
Concen: 10.229 ppbv
RT: 14.81 min Scan# 3694
Delta R.T. 0.00 min
Lab File: VL033874.D
Acq: 7 Jun 2019 2:03

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.4	20.3	30.5





#63

1,1,2,2-Tetrachloroethane

Concen: 9.941 ppbv

RT: 13.82 min Scan# 3385

Delta R.T. 0.00 min

Lab File: VL033874.D

Acq: 7 Jun 2019 2:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 83 Resp: 2011599

Ion Ratio Lower Upper

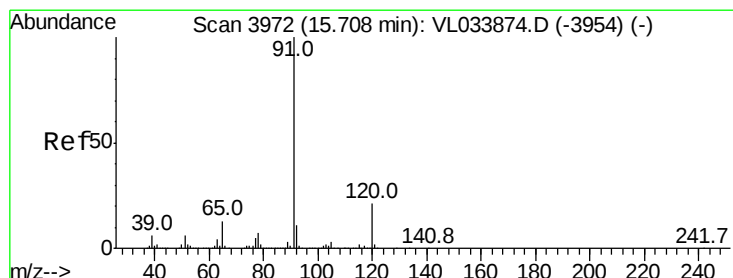
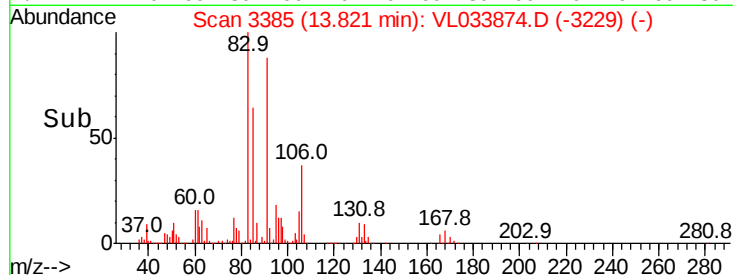
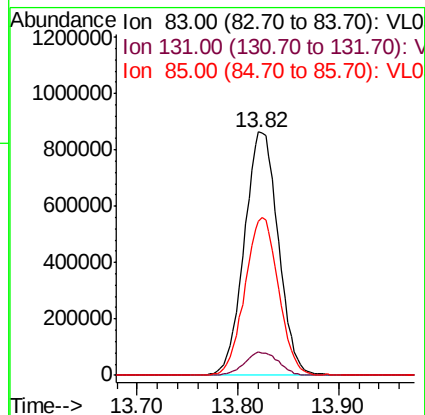
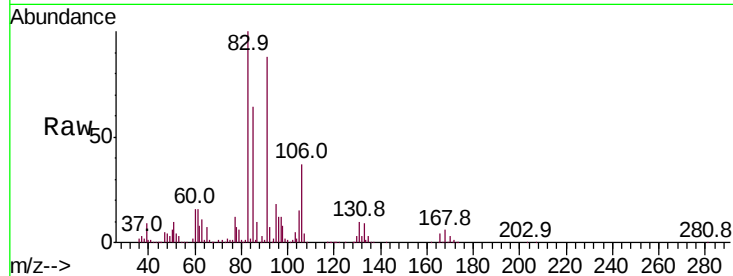
83 100

131 9.6 4.8 14.4

85 64.2 32.1 96.3

Manual Integrations
APPROVED

MMDadoda
6/11/2019 9:18:11 AM



#64

n-propylbenzene

Concen: 10.229 ppbv

RT: 15.71 min Scan# 3972

Delta R.T. 0.00 min

Lab File: VL033874.D

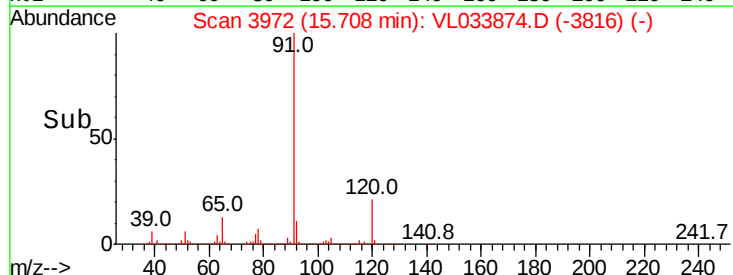
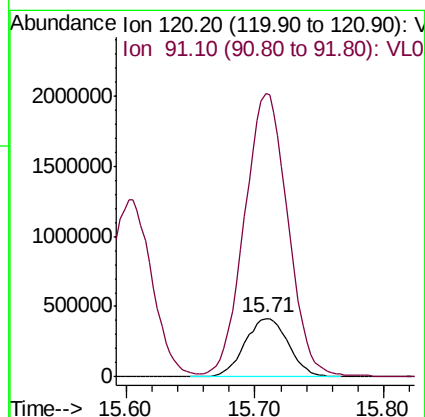
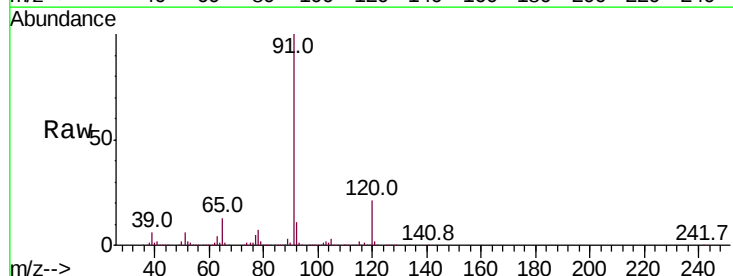
Acq: 7 Jun 2019 2:03

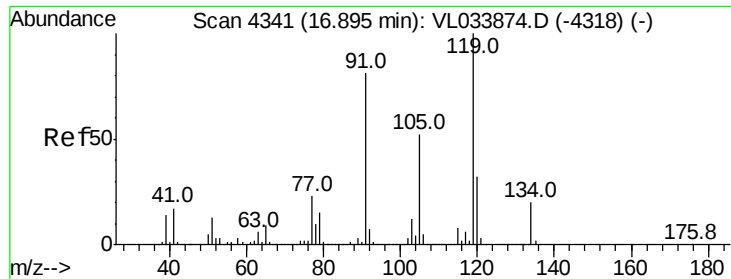
Tgt Ion: 120 Resp: 983307

Ion Ratio Lower Upper

120 100

91 483.8 387.0 580.6





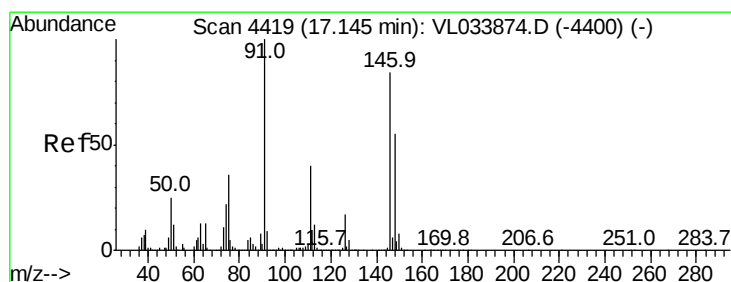
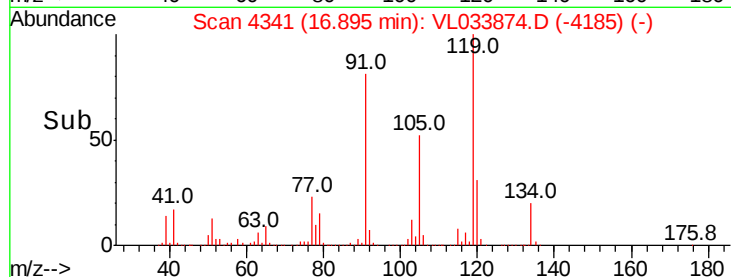
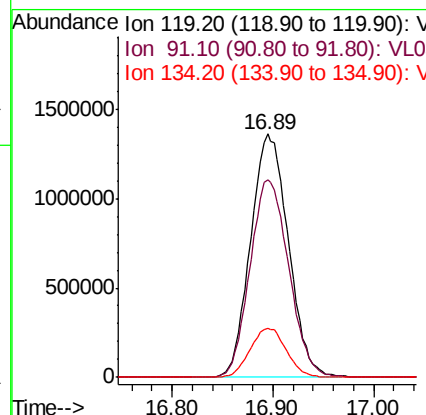
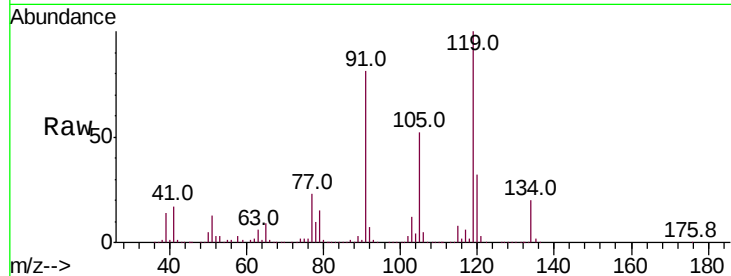
#65
 tert-Butylbenzene
 Concen: 10.386 ppbv
 RT: 16.89 min Scan# 4341
 Delta R.T. 0.00 min
 Lab File: VL033874.D
 Acq: 7 Jun 2019 2:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:119 Resp: 3533224
 Ion Ratio Lower Upper
 119 100
 91 83.3 66.6 100.0
 134 19.4 15.5 23.3

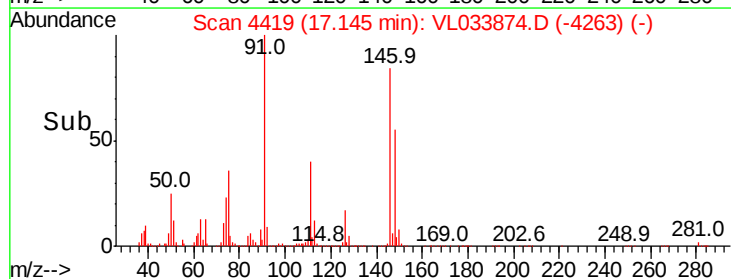
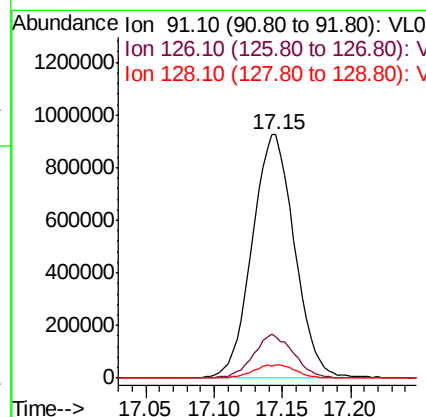
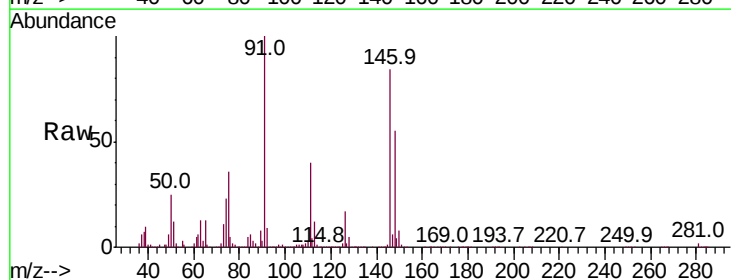
Manual Integrations
 APPROVED

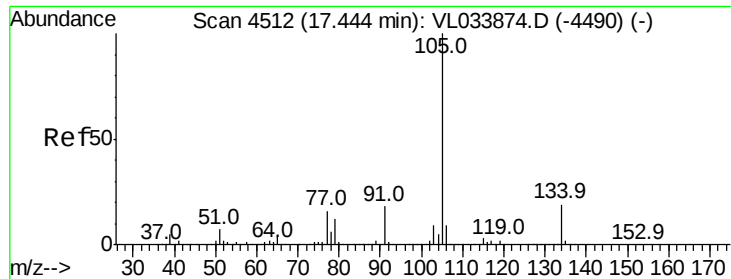
MMDadoda
 6/11/2019 9:18:11 AM



#66
 Benzyl Chloride
 Concen: 12.251 ppbv
 RT: 17.15 min Scan# 4419
 Delta R.T. 0.00 min
 Lab File: VL033874.D
 Acq: 7 Jun 2019 2:03

Tgt Ion: 91 Resp: 1988803
 Ion Ratio Lower Upper
 91 100
 126 17.2 13.8 20.6
 128 5.5 4.4 6.6





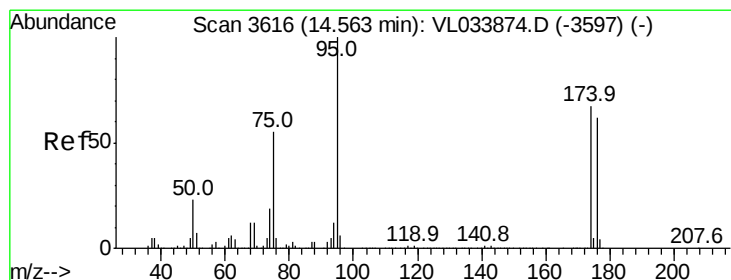
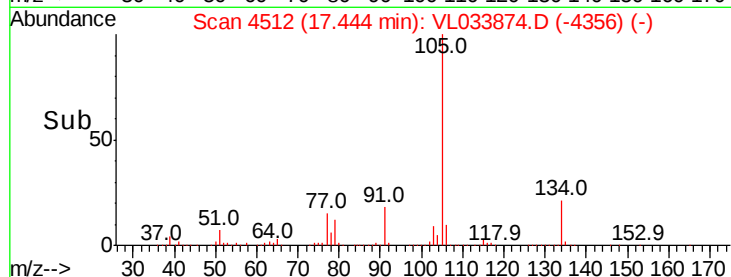
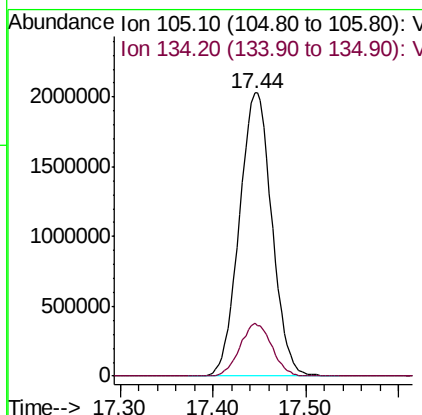
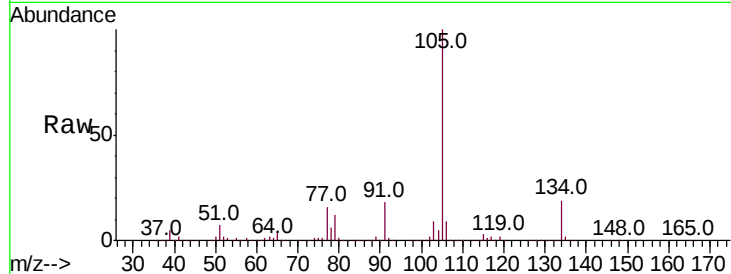
#67
 sec-Butylbenzene
 Concen: 10.351 ppbv
 RT: 17.44 min Scan# 4512
 Delta R.T. 0.00 min
 Lab File: VL033874.D
 Acq: 7 Jun 2019 2:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:105 Resp: 4935343
 Ion Ratio Lower Upper
 105 100
 134 18.3 14.6 22.0

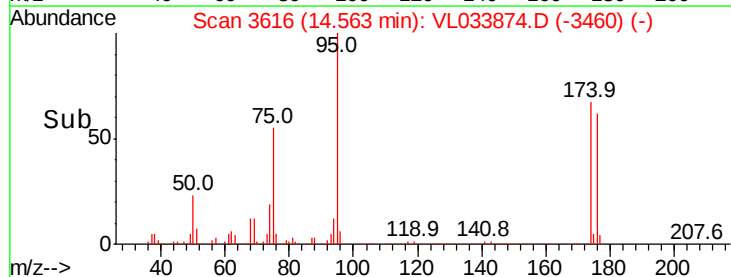
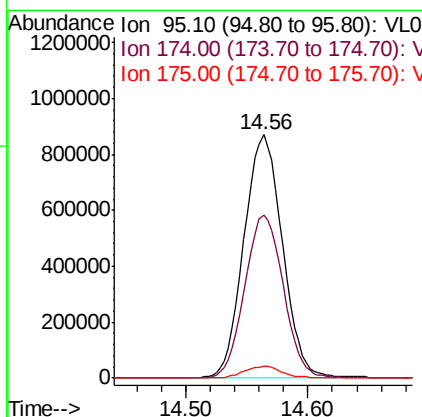
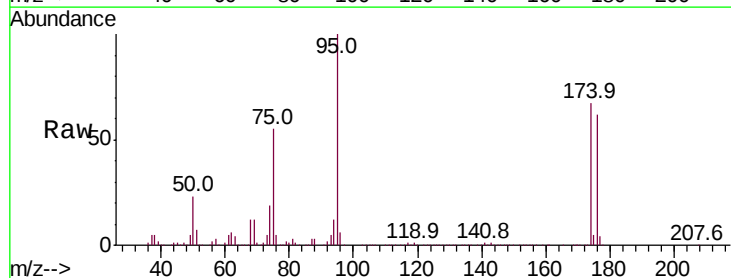
Manual Integrations
 APPROVED

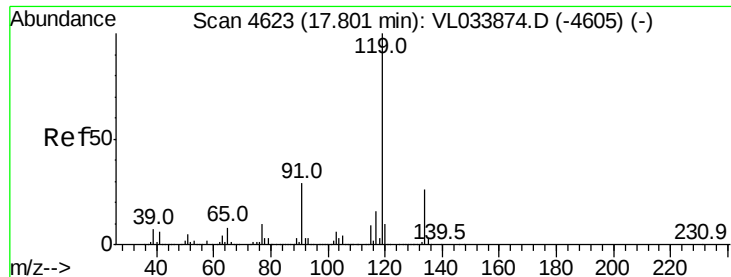
MMDadoda
 6/11/2019 9:18:11 AM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.867 ppbv
 RT: 14.56 min Scan# 3616
 Delta R.T. 0.00 min
 Lab File: VL033874.D
 Acq: 7 Jun 2019 2:03

Tgt Ion: 95 Resp: 1899859
 Ion Ratio Lower Upper
 95 100
 174 67.7 54.0 81.0
 175 4.8 3.8 5.8





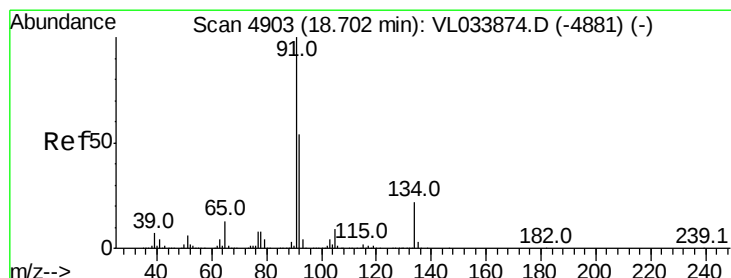
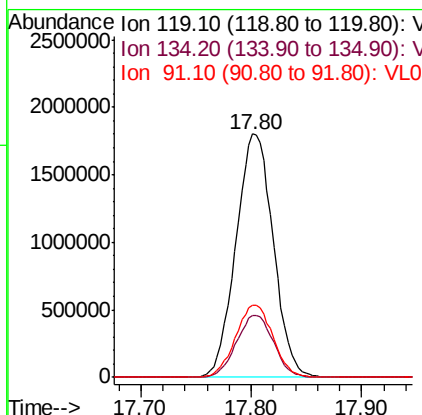
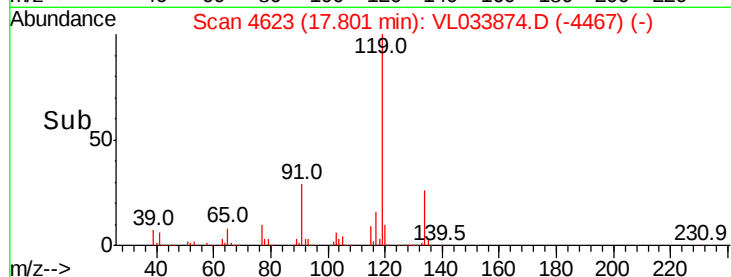
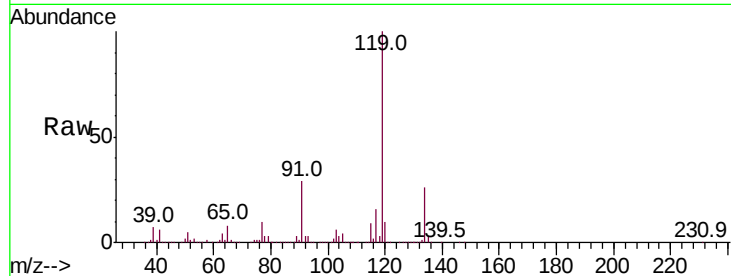
#69
 p-Isopropyltoluene
 Concen: 10.674 ppbv
 RT: 17.80 min Scan# 4623
 Delta R.T. 0.00 min
 Lab File: VL033874.D
 Acq: 7 Jun 2019 2:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.3	30.5
91	29.9	23.8	35.6

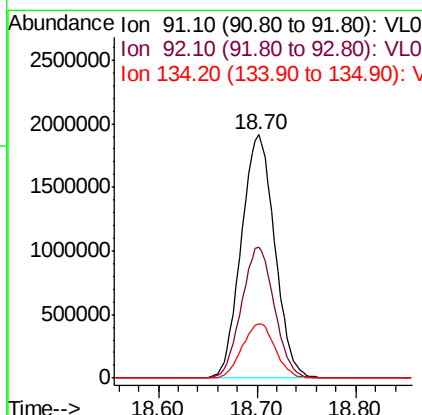
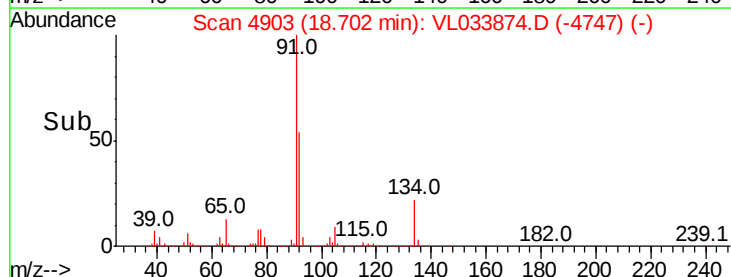
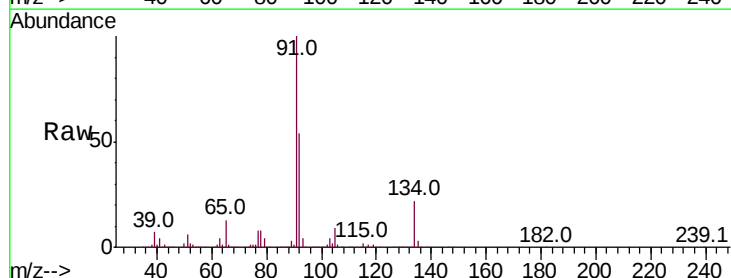
Manual Integrations
 APPROVED

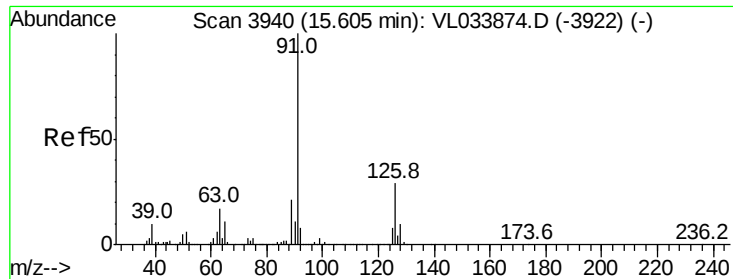
MMDadoda
 6/11/2019 9:18:11 AM



#70
 n-Butylbenzene
 Concen: 10.523 ppbv
 RT: 18.70 min Scan# 4903
 Delta R.T. 0.00 min
 Lab File: VL033874.D
 Acq: 7 Jun 2019 2:03

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.1	42.5	63.7
134	22.2	17.8	26.6





#71

2-Chlorotoluene

Concen: 10.461 ppbv

RT: 15.61 min Scan# 3940

Delta R.T. 0.00 min

Lab File: VL033874.D

Acq: 7 Jun 2019 2:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 2887146

Ion Ratio Lower Upper

91 100

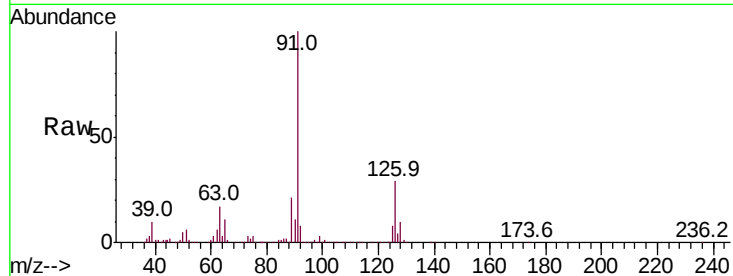
126 30.1 12.0 48.2

Manual Integrations

APPROVED

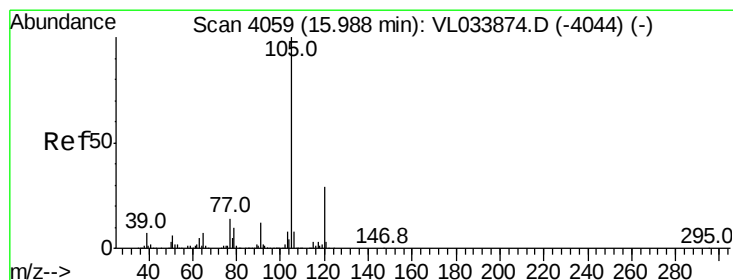
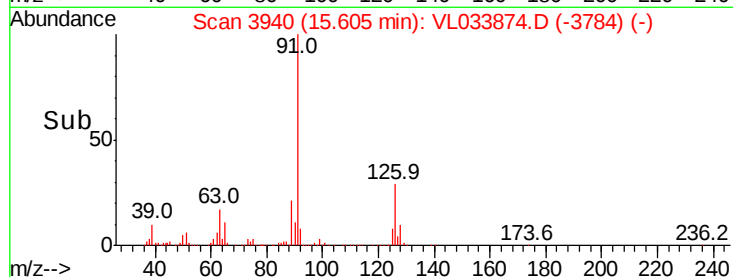
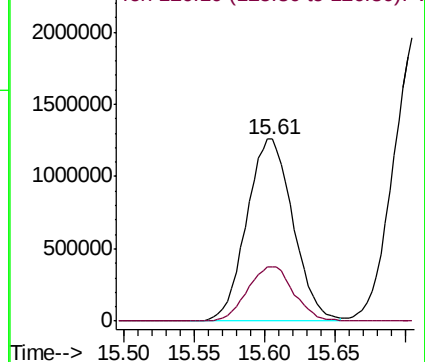
MMDadoda

6/11/2019 9:18:11 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 10.699 ppbv

RT: 15.99 min Scan# 4059

Delta R.T. 0.00 min

Lab File: VL033874.D

Acq: 7 Jun 2019 2:03

Tgt Ion:105 Resp: 3382723

Ion Ratio Lower Upper

105 100

120 29.4 23.5 35.3

91 13.0 10.4 15.6

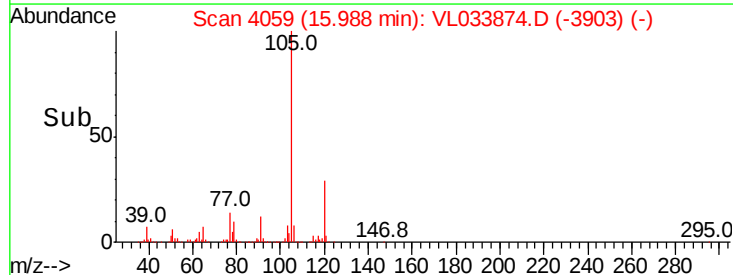
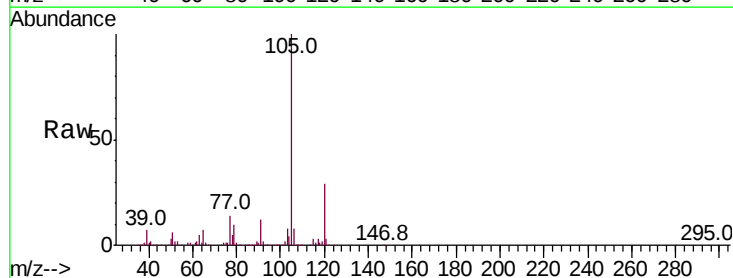
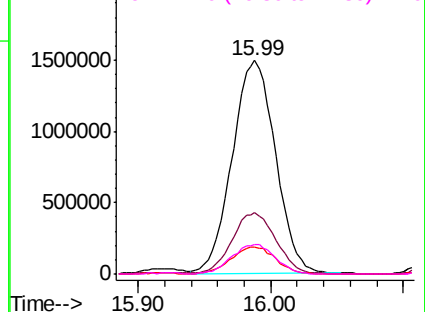
77 14.6 11.7 17.5

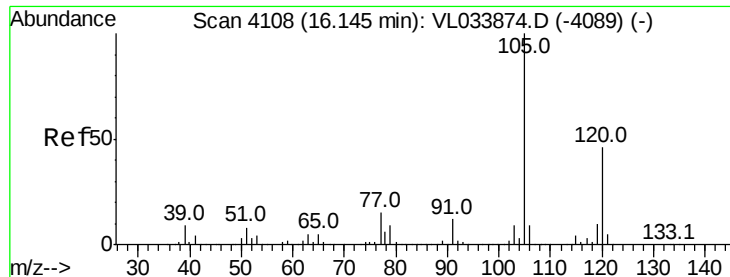
Abundance Ion 105.10 (104.80 to 105.80): V

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





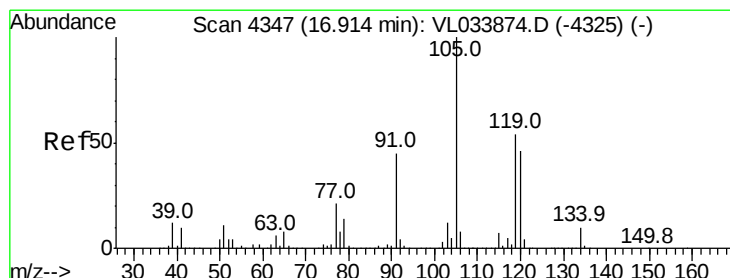
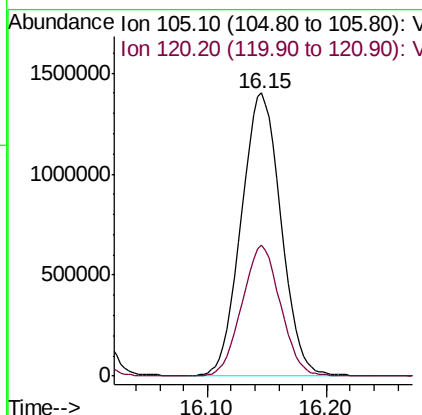
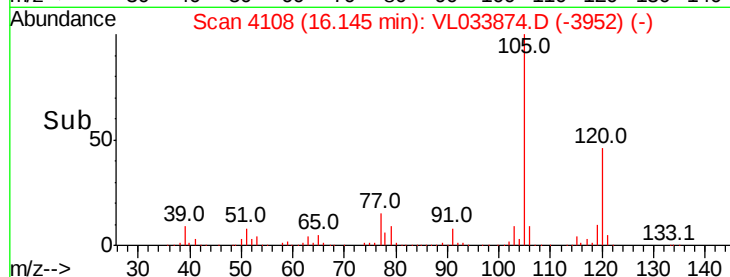
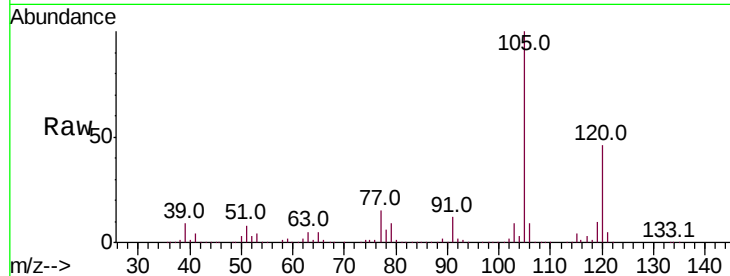
#73
 1,3,5-Trimethylbenzene
 Concen: 10.434 ppbv
 RT: 16.15 min Scan# 4108
 Delta R.T. 0.00 min
 Lab File: VL033874.D
 Acq: 7 Jun 2019 2:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:105 Resp: 3226370
 Ion Ratio Lower Upper
 105 100
 120 46.4 37.1 55.7

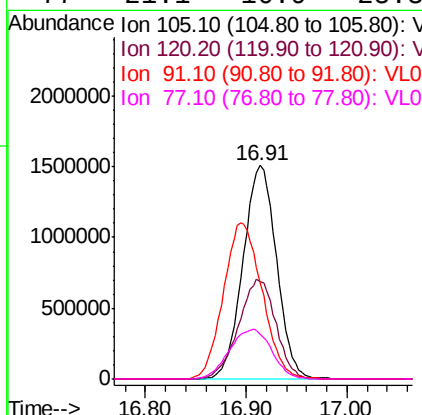
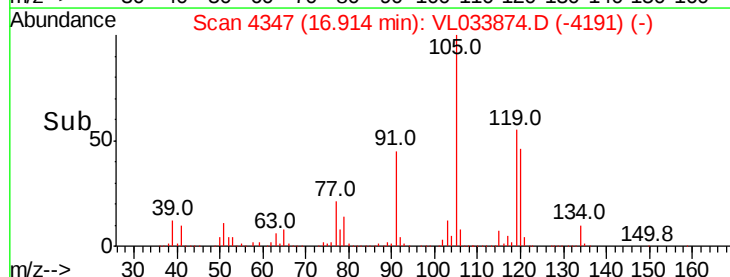
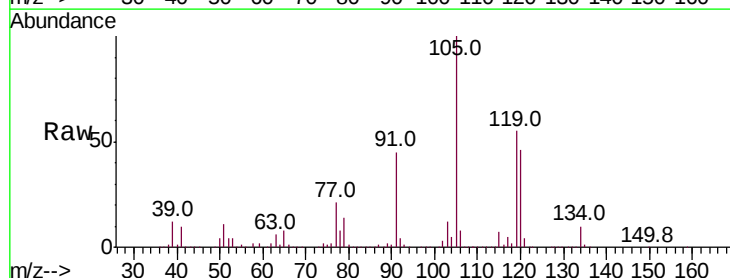
Manual Integrations
 APPROVED

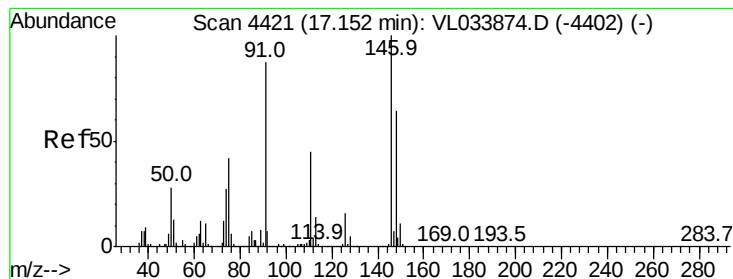
MMDadoda
 6/11/2019 9:18:11 AM



#74
 1,2,4-Trimethylbenzene
 Concen: 10.310 ppbv
 RT: 16.91 min Scan# 4347
 Delta R.T. 0.00 min
 Lab File: VL033874.D
 Acq: 7 Jun 2019 2:03

Tgt Ion:105 Resp: 3478067
 Ion Ratio Lower Upper
 105 100
 120 45.9 36.7 55.1
 91 44.8 35.8 53.8
 77 21.1 16.9 25.3





#75

1,3-Dichlorobenzene

Concen: 9.882 ppbv

RT: 17.15 min Scan# 4421

Delta R.T. 0.00 min

Lab File: VL033874.D

Acq: 7 Jun 2019 2:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:146 Resp: 2046326

Ion Ratio Lower Upper

146 100

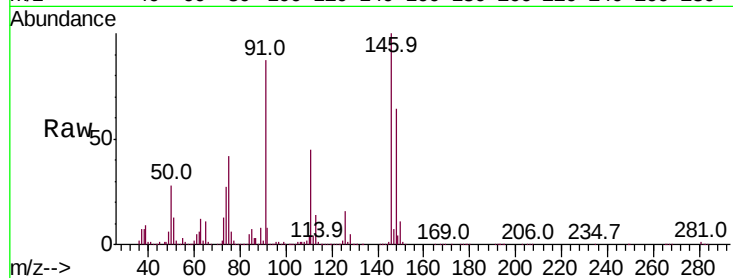
111 45.5 22.8 68.3

148 64.4 32.2 96.6

Manual Integrations
APPROVED

MMDadoda

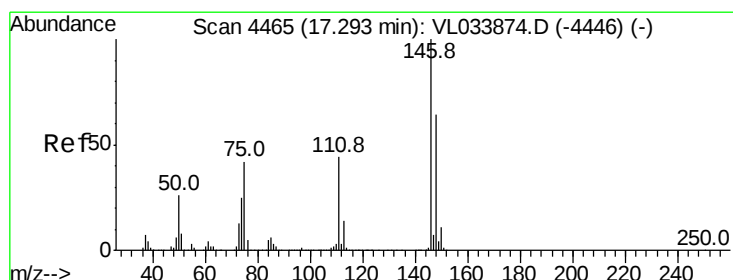
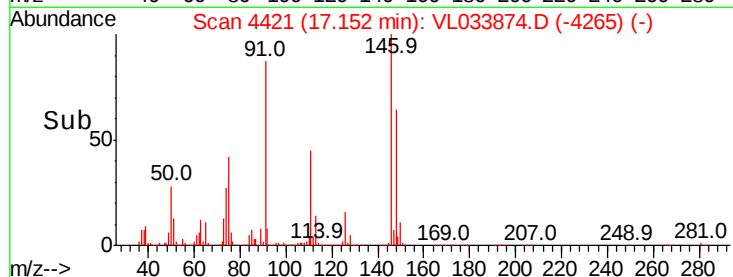
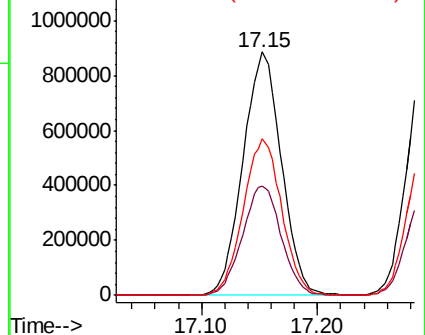
6/11/2019 9:18:11 AM



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: 10.275 ppbv

RT: 17.29 min Scan# 4465

Delta R.T. 0.00 min

Lab File: VL033874.D

Acq: 7 Jun 2019 2:03

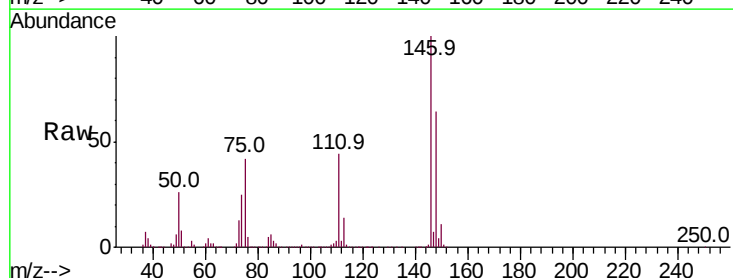
Tgt Ion:146 Resp: 2018147

Ion Ratio Lower Upper

146 100

111 44.1 22.1 66.5

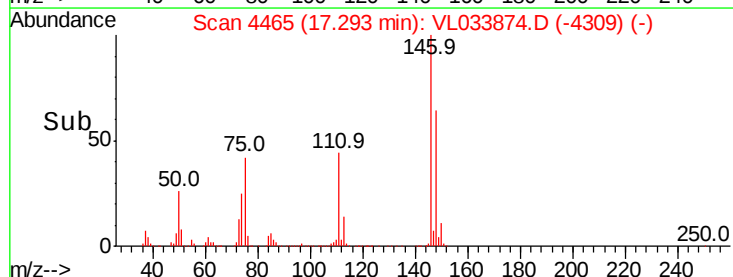
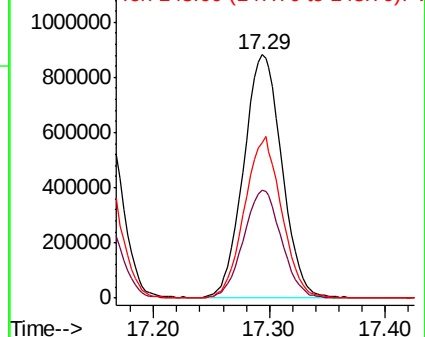
148 64.4 32.4 97.0

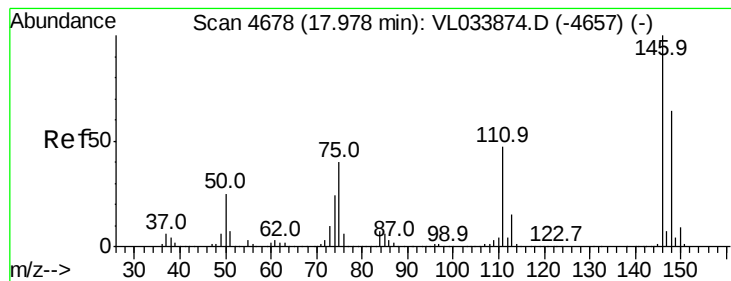


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





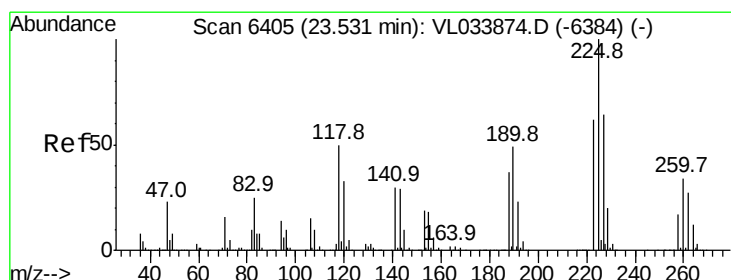
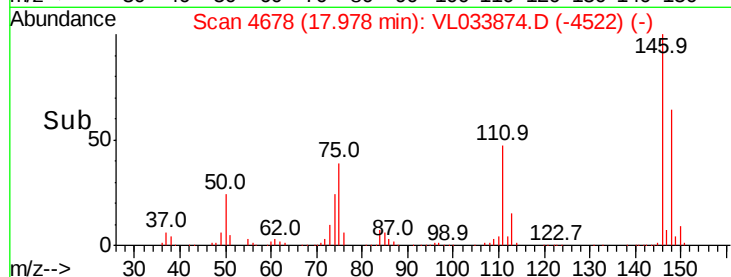
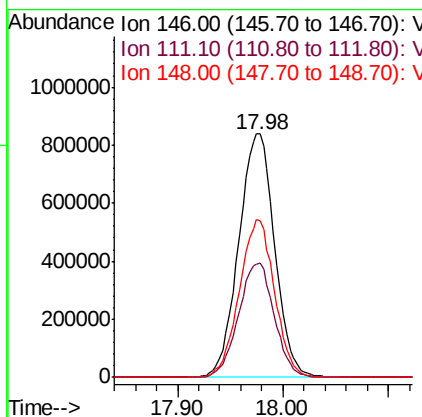
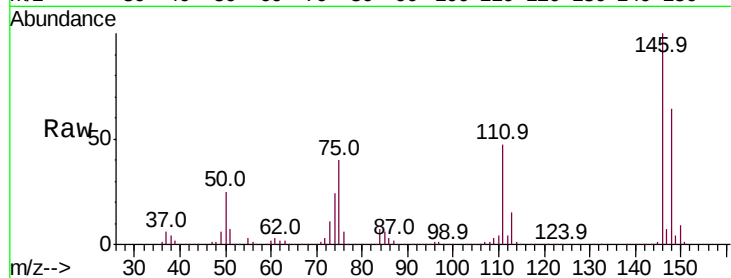
#77
 1,2-Dichlorobenzene
 Concen: 10.186 ppbv
 RT: 17.98 min Scan# 4678
 Delta R.T. 0.00 min
 Lab File: VL033874.D
 Acq: 7 Jun 2019 2:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:146 Resp: 1983454
 Ion Ratio Lower Upper
 146 100
 111 46.7 23.4 70.0
 148 63.5 31.8 95.4

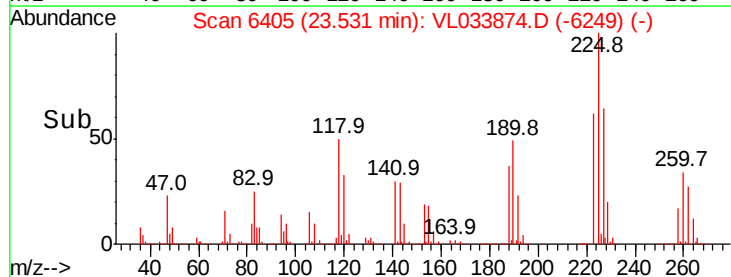
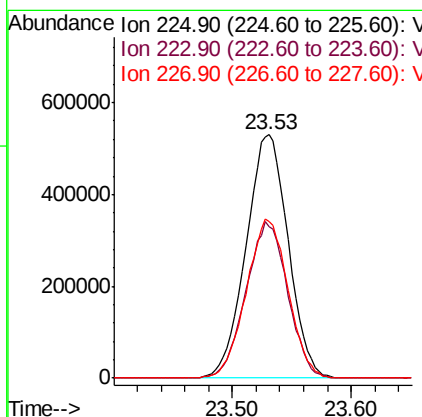
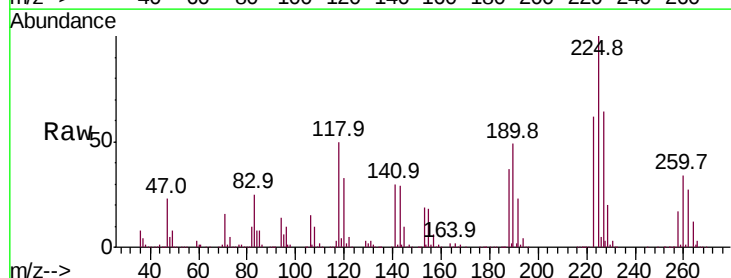
Manual Integrations
 APPROVED

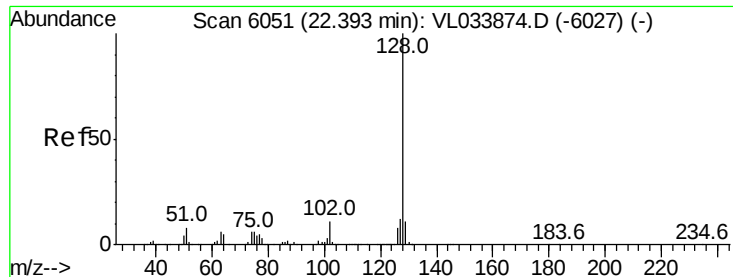
MMDadoda
 6/11/2019 9:18:11 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.894 ppbv
 RT: 23.53 min Scan# 6405
 Delta R.T. 0.00 min
 Lab File: VL033874.D
 Acq: 7 Jun 2019 2:03

Tgt Ion:225 Resp: 1297769
 Ion Ratio Lower Upper
 225 100
 223 63.5 50.8 76.2
 227 64.7 51.8 77.6





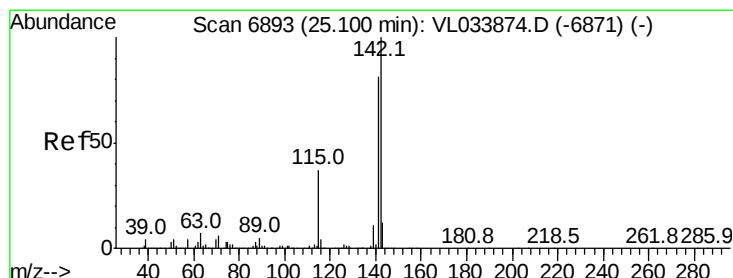
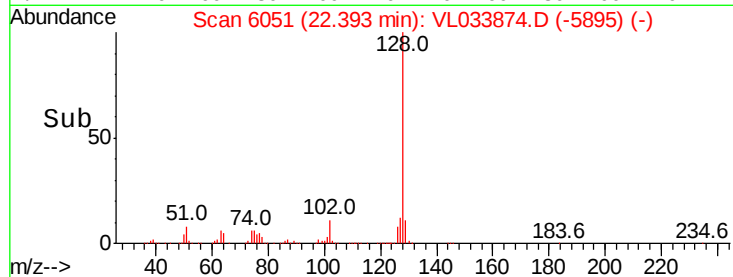
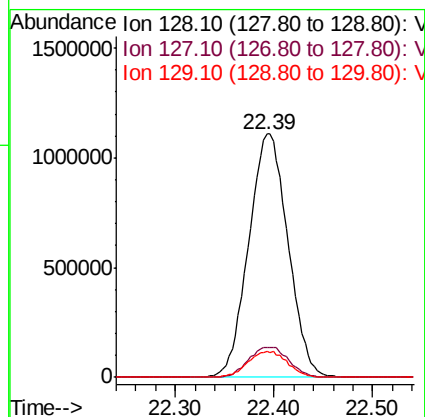
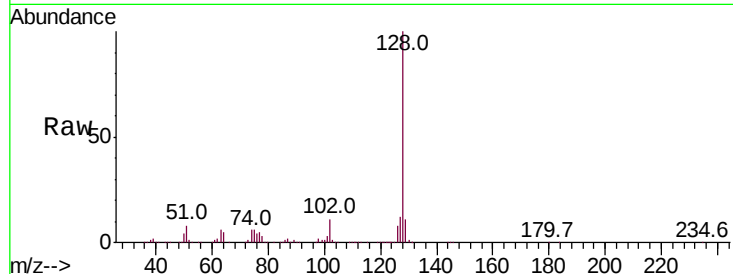
#79
Naphthalene
Concen: 10.083 ppbv
RT: 22.39 min Scan# 6051
Delta R.T. 0.00 min
Lab File: VL033874.D
Acq: 7 Jun 2019 2:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.1	9.7	14.5
129	10.7	8.6	12.8

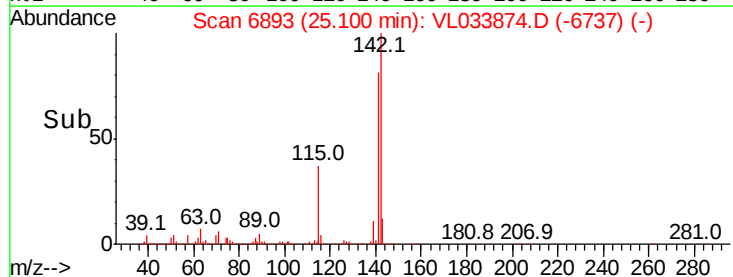
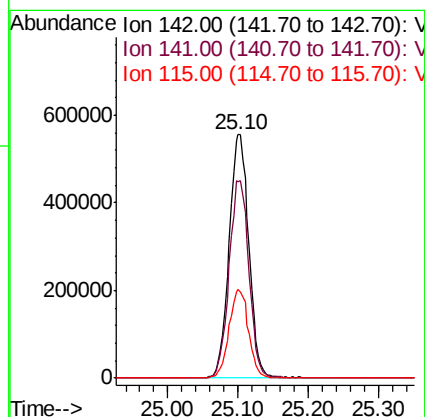
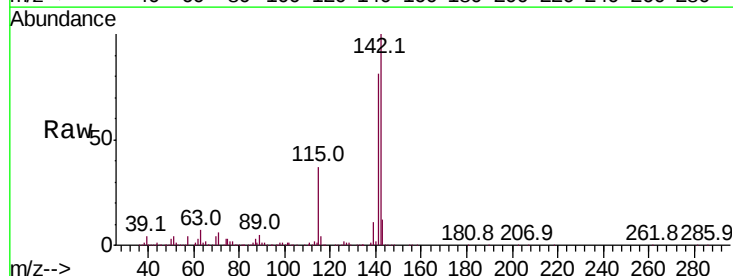
Manual Integrations
APPROVED

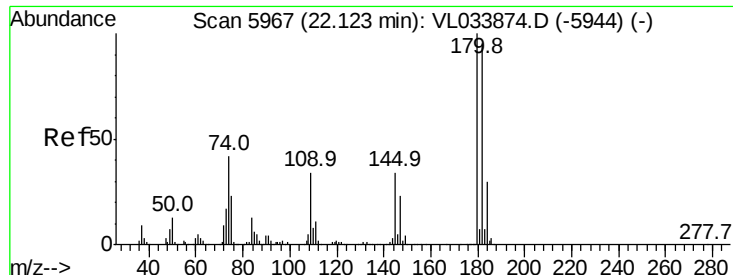
MMDadoda
6/11/2019 9:18:11 AM



#80
Naphthalene, 2-methyl-
Concen: 10.006 ppbv
RT: 25.10 min Scan# 6893
Delta R.T. 0.00 min
Lab File: VL033874.D
Acq: 7 Jun 2019 2:03

Tgt Ion	Ratio	Lower	Upper
142	100		
141	81.8	65.7	98.5
115	36.0	28.9	43.3





#81
 1,2,4-Trichlorobenzene
 Concen: 10.010 ppbv
 RT: 22.12 min Scan# 5967
 Delta R.T. 0.00 min
 Lab File: VL033874.D
 Acq: 7 Jun 2019 2:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.9	115.3
184	30.7	24.5	36.7

Manual Integrations
 APPROVED

MMDadoda
 6/11/2019 9:18:11 AM

