

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031519\
 Data File : VL033326.D
 Acq On : 15 Mar 2019 10:25
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 3/19/2019 10:02:14 AM

Quant Time: Mar 15 12:52:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 2019
 QLast Update : Fri Mar 15 12:24:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	856212	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	1991733	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2356838m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1663558	9.29	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1456697	9.397	ppbv	100
3) Chlorodifluoromethane	3.02	51	929233	9.482	ppbv	100
4) Chloromethane	3.17	50	492344	9.243	ppbv	100
5) Vinyl Chloride	3.29	62	482667	8.932	ppbv	100
6) Bromomethane	3.52	94	316306	9.652	ppbv	100
7) Chloroethane	3.60	64	178086	9.189	ppbv	100
8) Dichlorotetrafluoroethane	3.22	85	1206481	9.132	ppbv	100
9) Propene	3.04	41	400495	9.115	ppbv	100
10) Heptane	8.25	43	1065248	9.604	ppbv	100
11) Trichlorofluoromethane	4.01	101	1418277	9.634	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	938539	9.733	ppbv	100
13) Ethanol	3.65	45	89645	5.868	ppbv	99
14) Bromoethene	3.79	108	392440	9.621	ppbv	100
15) Acetone	3.90	43	928899	7.086	ppbv	100
16) 1,3-Butadiene	3.36	39	409223	8.891	ppbv	100
17) tert-Butyl alcohol	4.36	59	163805	8.760	ppbv	100
18) 1,1-Dichloroethene	4.35	96	422610	9.895	ppbv	100
19) Isopropyl Alcohol	4.02	45	550835	8.375	ppbv	100
20) Methylene Chloride	4.41	84	353757	8.423	ppbv	100
21) Allyl Chloride	4.48	41	650331	10.027	ppbv	100
22) trans-1,2-Dichloroethene	4.97	96	424715	10.010	ppbv	100
23) Vinyl Acetate	5.16	43	1504143	9.825	ppbv	100
24) 1,1-Dichloroethane	5.09	63	1050011	9.624	ppbv	100
25) Ethyl Acetate	5.77	43	1807302	9.526	ppbv	100
26) Hexane	5.78	57	798421	9.197	ppbv	100
27) Carbon Disulfide	4.62	76	1043072	10.650	ppbv	100
28) Methyl tert-Butyl Ether	5.12	73	1258899	10.069	ppbv	100
29) Chloroform	5.85	83	1338995	9.463	ppbv	100
30) Cyclohexane	7.25	84	678472	9.870	ppbv	100
31) cis-1,2-Dichloroethene	5.64	61	853011	9.915	ppbv	100
32) 1,1,1-Trichloroethane	6.62	97	1375723	9.795	ppbv	100
34) 2-Butanone	5.33	43	1191766	9.434	ppbv	100
35) Carbon Tetrachloride	7.14	117	1396355	9.714	ppbv	100
36) Benzene	7.01	78	1699383	9.546	ppbv	100
37) 1,2-Dichloroethane	6.42	62	1053756	9.494	ppbv	100
38) Trichloroethene	7.97	130	640296	9.138	ppbv	100
39) 1,2-Dichloropropane	7.74	63	643787	9.503	ppbv	100
40) 1,4-Dioxane	7.96	88	219037	8.827	ppbv	100
41) Tetrahydrofuran	6.15	42	696935	9.948	ppbv	100
42) Bromodichloromethane	7.92	83	1506935	9.961	ppbv	100
43) Methyl Methacrylate	8.14	69	699512	10.078	ppbv	100

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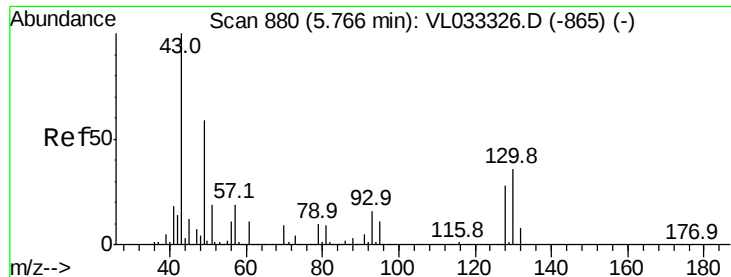
Manual Integrations
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	2830506	9.480	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	984897	11.582	ppbv	100
46) cis-1,3-Dichloropropene	8.84	75	1080794	10.819	ppbv	100
47) 1,1,2-Trichloroethane	9.62	97	723759	9.932	ppbv	100
48) Dibromochloromethane	10.46	129	1392747	11.184	ppbv	100
49) Bromoform	13.21	173	1251040	11.099	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1778884	9.628	ppbv	100
51) 2-Hexanone	10.27	43	1423259	9.671	ppbv #	100
52) Tetrachloroethene	11.38	164	708513	9.852	ppbv	100
53) Toluene	9.95	91	2033065	10.011	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1263525	10.638	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.28	131	981479	9.280	ppbv	100
57) Chlorobenzene	12.31	112	1664880	8.894	ppbv	100
58) Ethyl Benzene	12.87	91	3156238	9.465	ppbv	100
59) m/p-Xylene	13.13	91	5260500m	18.518	ppbv	
60) o-Xylene	13.86	91	2564716	9.218	ppbv	100
61) Styrene	13.69	104	1924195	9.901	ppbv	100
62) Isopropylbenzene	14.83	105	3599610	9.361	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1762437	8.377	ppbv	100
64) n-propylbenzene	15.73	120	917950	9.457	ppbv	100
65) tert-Butylbenzene	16.91	119	3229047	9.112	ppbv	100
66) Benzyl Chloride	17.16	91	1776490	12.287	ppbv	100
67) sec-Butylbenzene	17.47	105	4622545	9.128	ppbv	100
69) p-Isopropyltoluene	17.82	119	3837860	9.311	ppbv	100
70) n-Butylbenzene	18.72	91	4005884	9.099	ppbv	100
71) 2-Chlorotoluene	15.62	91	2799024	9.141	ppbv	100
72) 4-Ethyltoluene	16.01	105	3036283	9.563	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	2903418	9.235	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	2977537	8.998	ppbv	100
75) 1,3-Dichlorobenzene	17.17	146	1723618	8.955	ppbv	100
76) 1,4-Dichlorobenzene	17.32	146	1728953	9.122	ppbv	100
77) 1,2-Dichlorobenzene	18.00	146	1677051	9.004	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	917603	8.185	ppbv	100
79) Naphthalene	22.42	128	2929304	9.064	ppbv	100
80) Naphthalene, 2-methyl-	25.12	142	1484934	9.530	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	1458644	8.704	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. 0.00 min

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MSVOA_L

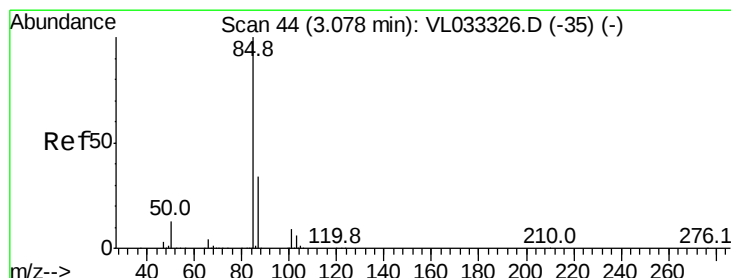
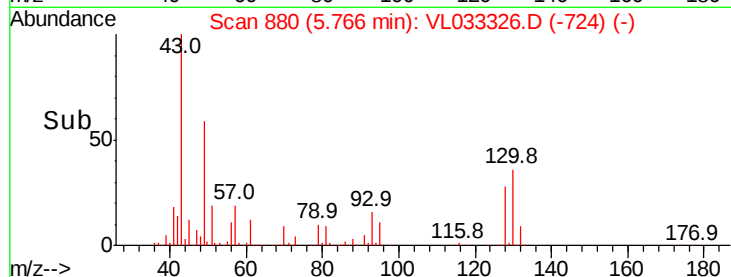
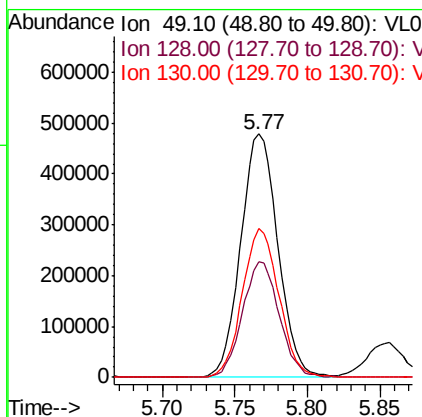
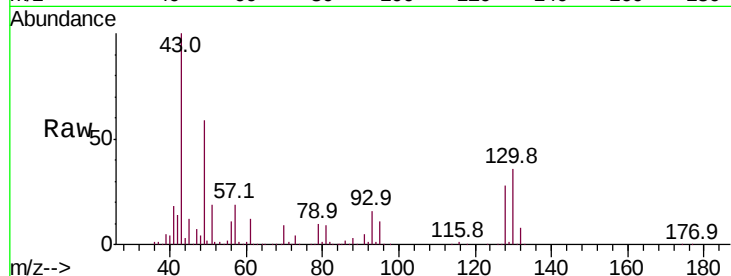
ClientSampleId :

VSTDICCC010

Tot Ion	Ratio	Lower	Upper
49	100		
128	47.1	23.5	70.6
130	60.2	30.1	90.3

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 9.397 ppbv

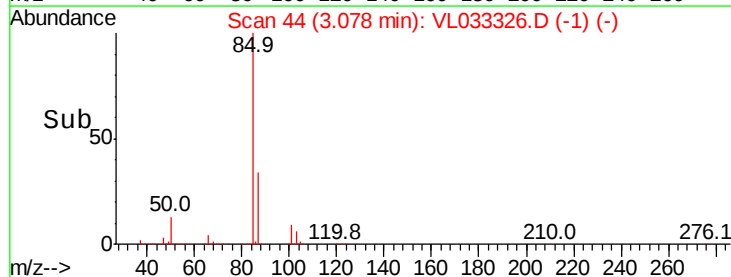
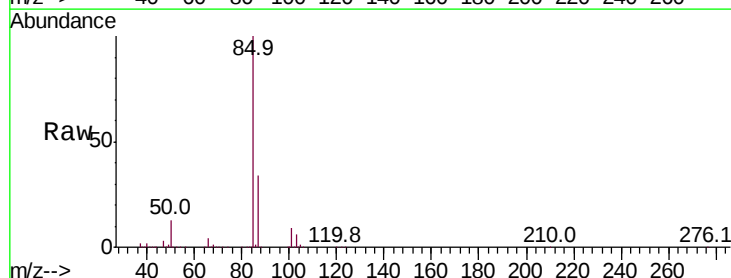
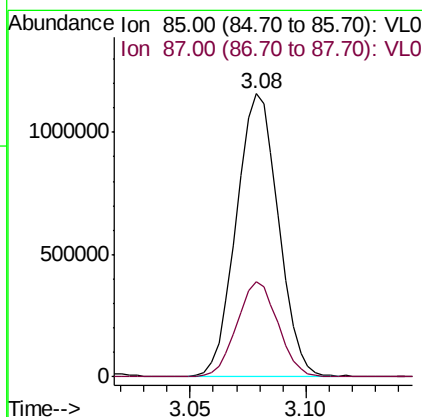
RT: 3.08 min Scan# 44

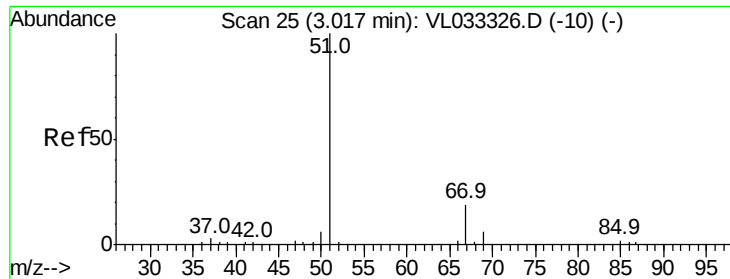
Delta R.T. 0.00 min

Lab File: VL033326.D

Acq: 15 Mar 2019 10:25

Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.6	26.9	40.3





#3

Chlorodifluoromethane

Concen: 9.482 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033326.D

Acq: 15 Mar 2019 10:25

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 51 Resp: 929233

Ion Ratio Lower Upper

51 100

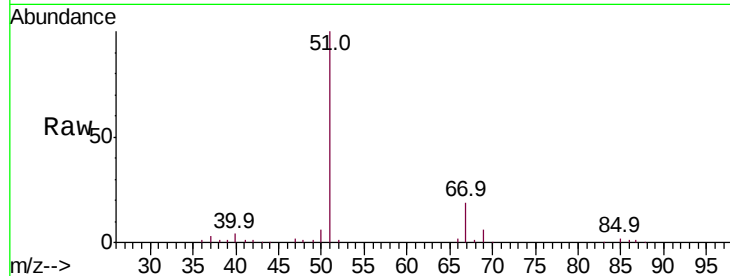
67 18.6 14.9 22.3

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.02

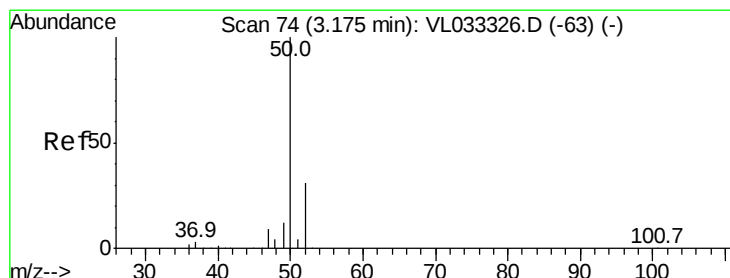
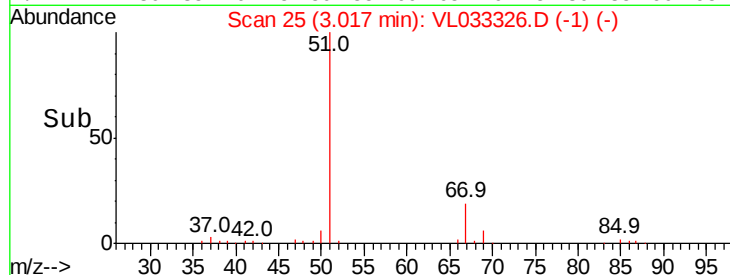
600000

400000

200000

0

Time-->



#4

Chloromethane

Concen: 9.243 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL033326.D

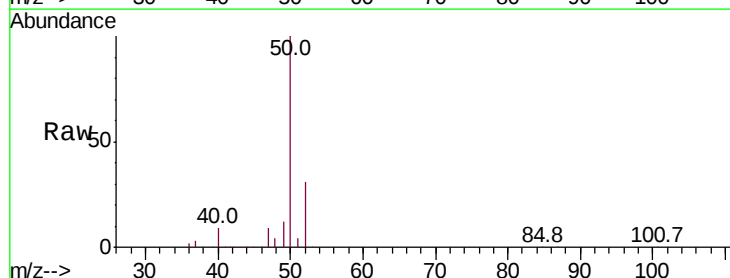
Acq: 15 Mar 2019 10:25

Tgt Ion: 50 Resp: 492344

Ion Ratio Lower Upper

50 100

52 31.3 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.17

400000

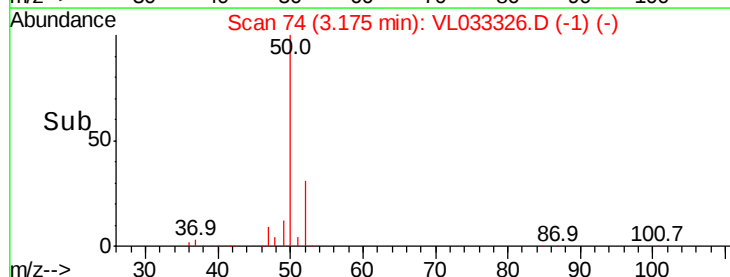
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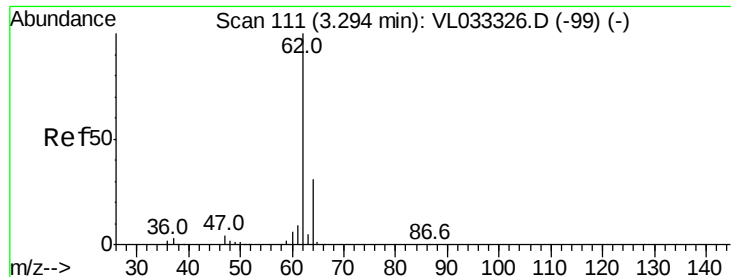
200000

100000

0

Time-->





#5

Vinyl Chloride

Concen: 8.932 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033326.D

Acq: 15 Mar 2019 10:25

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 62 Resp: 482667

Ion Ratio Lower Upper

62 100

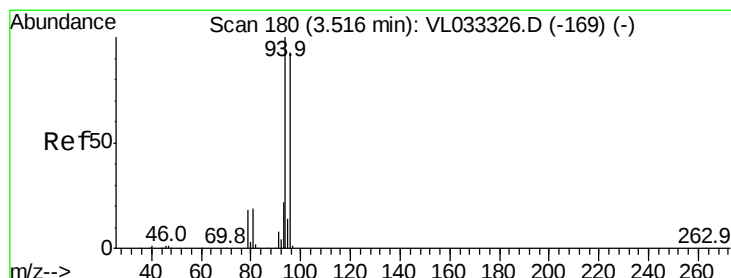
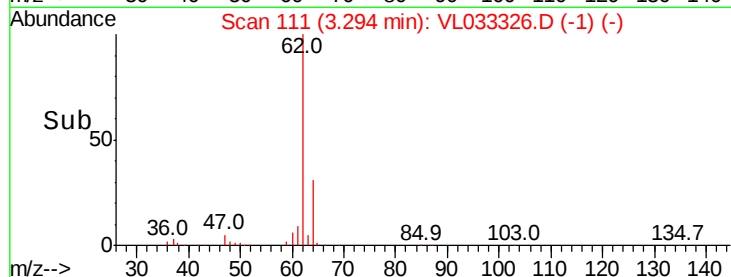
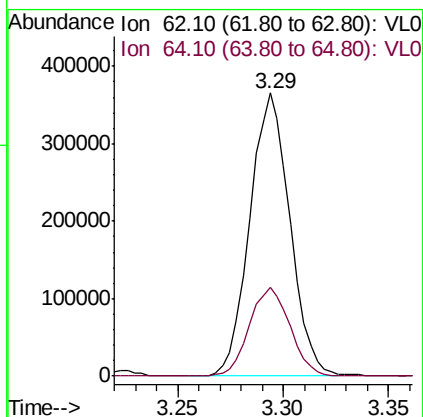
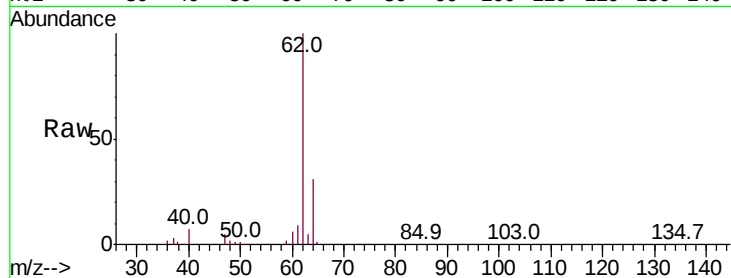
64 31.3 25.0 37.6

Manual Integrations

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#6

Bromomethane

Concen: 9.652 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033326.D

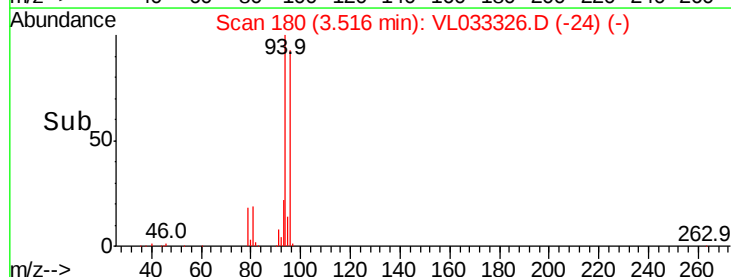
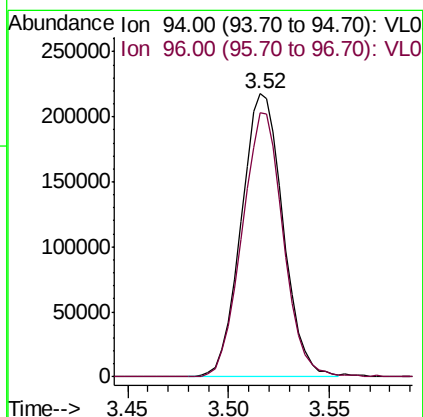
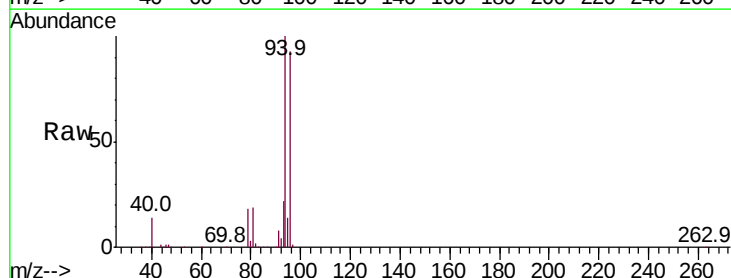
Acq: 15 Mar 2019 10:25

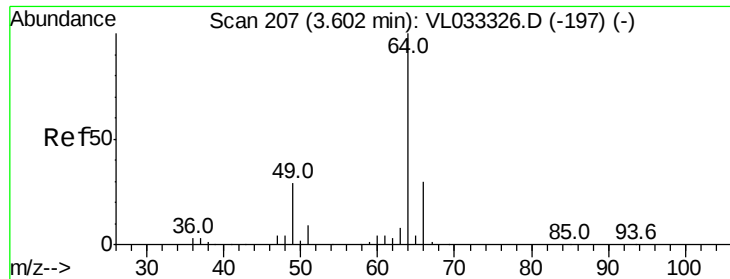
Tgt Ion: 94 Resp: 316306

Ion Ratio Lower Upper

94 100

96 93.2 74.6 111.8





#7

Chloroethane

Concen: 9.189 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033326.D

Acq: 15 Mar 2019 10:25

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 64 Resp: 178086

Ion Ratio Lower Upper

64 100

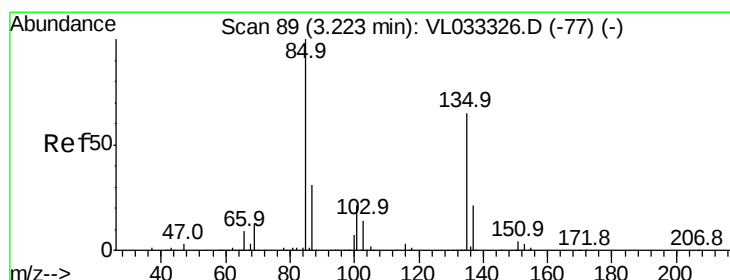
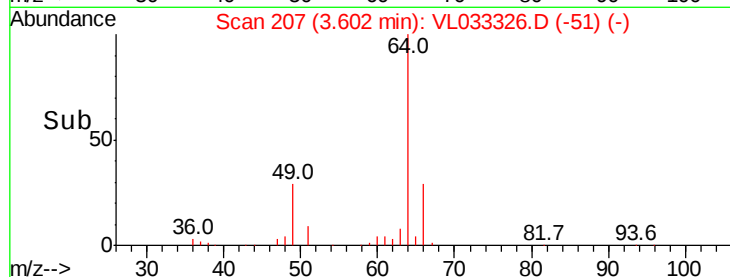
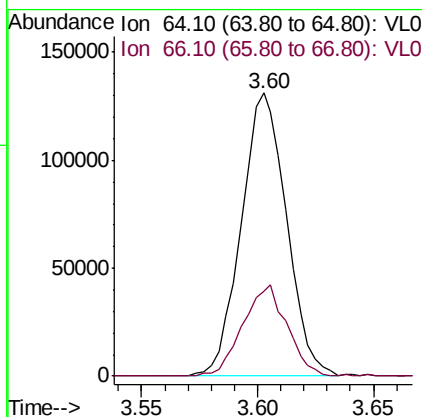
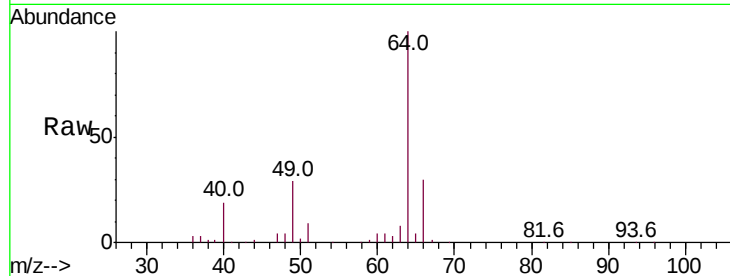
66 30.0 24.0 36.0

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#8

Dichlorotetrafluoroethane

Concen: 9.132 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.00 min

Lab File: VL033326.D

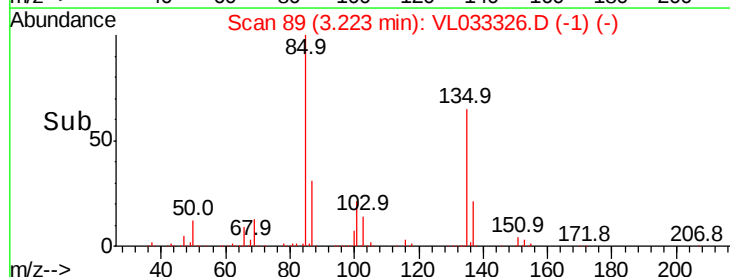
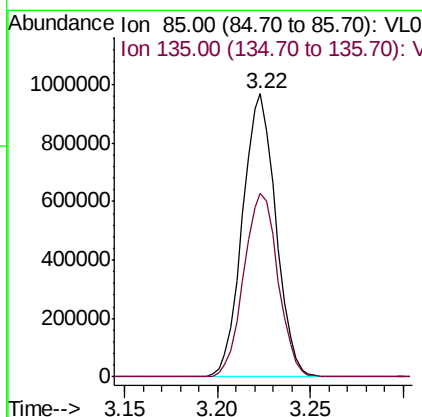
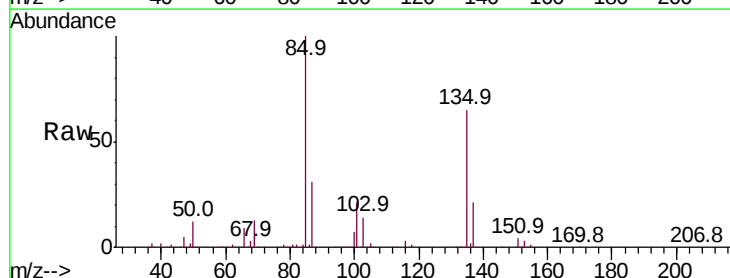
Acq: 15 Mar 2019 10:25

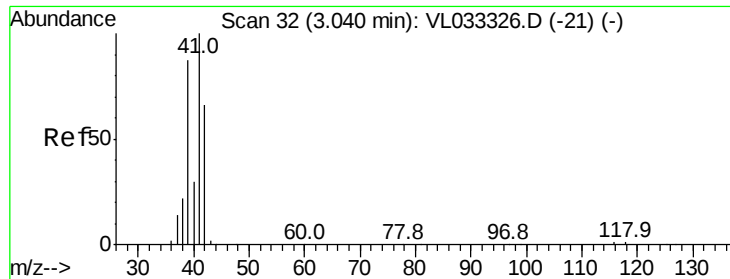
Tgt Ion: 85 Resp: 1206481

Ion Ratio Lower Upper

85 100

135 66.8 53.4 80.2





#9

Propene

Concen: 9.115 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

Lab File: VL033326.D

Acq: 15 Mar 2019 10:25

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 41 Resp: 400495

Ion Ratio Lower Upper

41 100

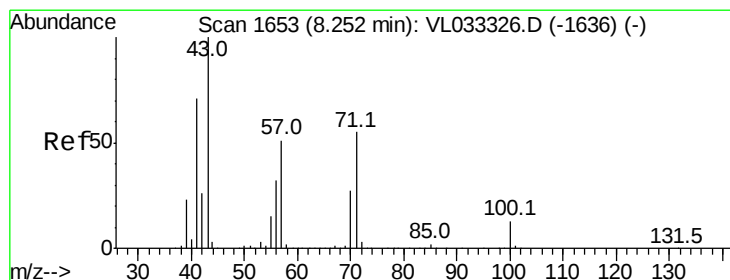
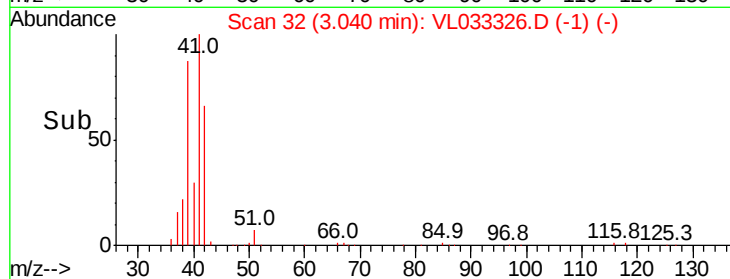
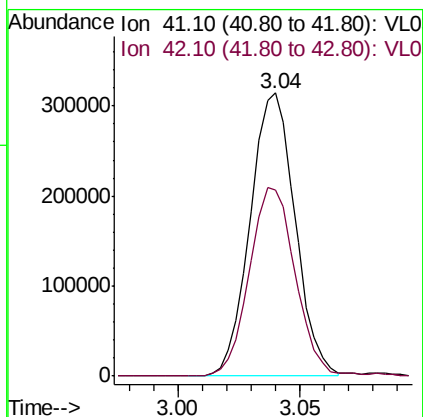
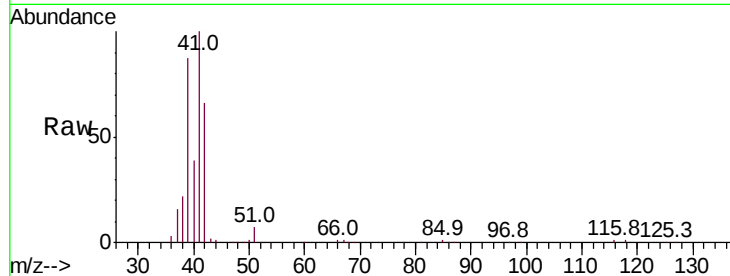
42 69.0 55.2 82.8

Manual Integrations

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#10

Heptane

Concen: 9.604 ppbv

RT: 8.25 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VL033326.D

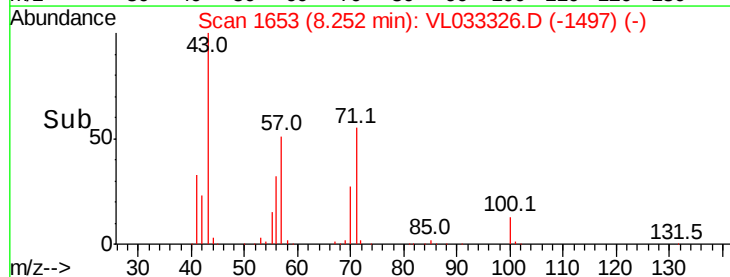
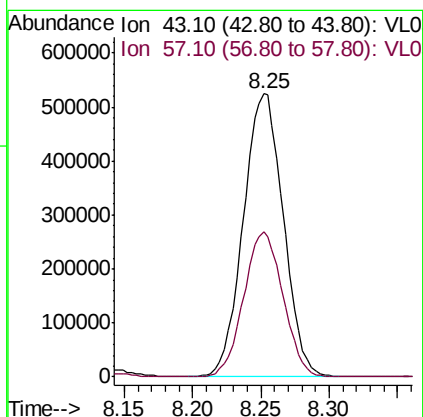
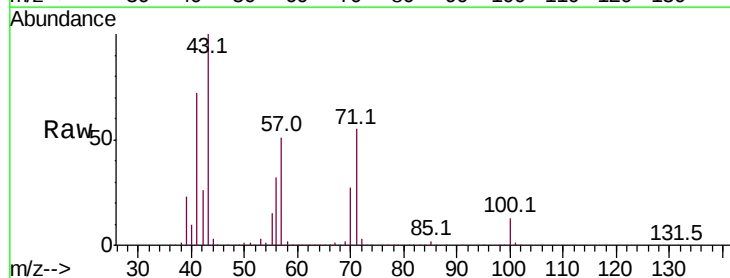
Acq: 15 Mar 2019 10:25

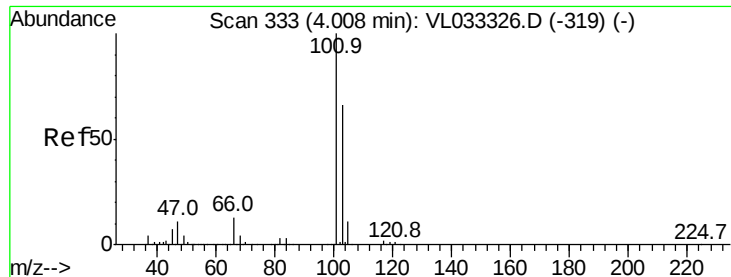
Tgt Ion: 43 Resp: 1065248

Ion Ratio Lower Upper

43 100

57 50.5 40.4 60.6





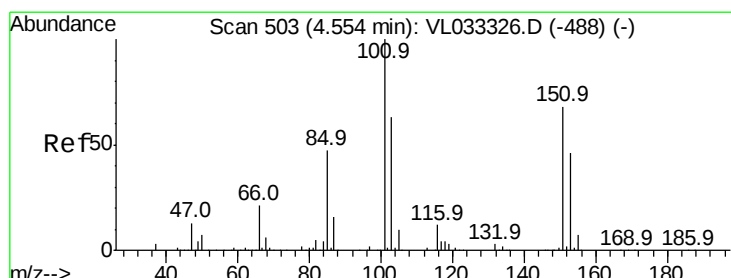
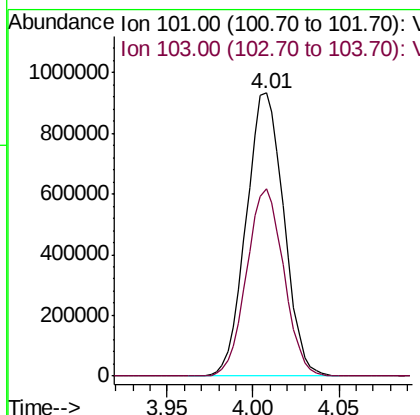
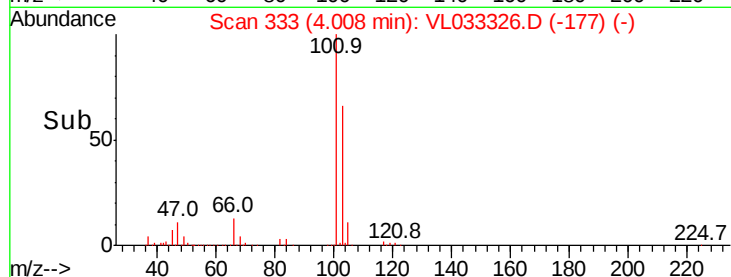
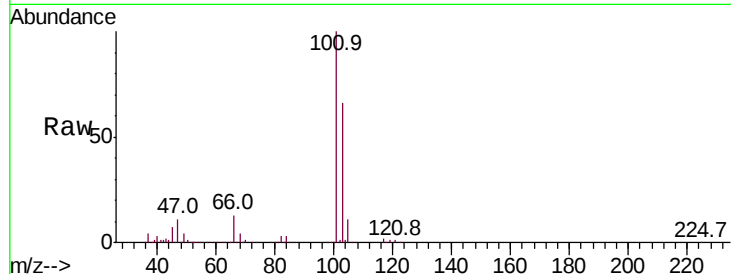
#11
 Trichlorofluoromethane
 Concen: 9.634 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. 0.00 min
 Lab File: VL033326.D
 Acq: 15 Mar 2019 10:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:101 Resp: 1418277
 Ion Ratio Lower Upper
 101 100
 103 66.1 52.9 79.3

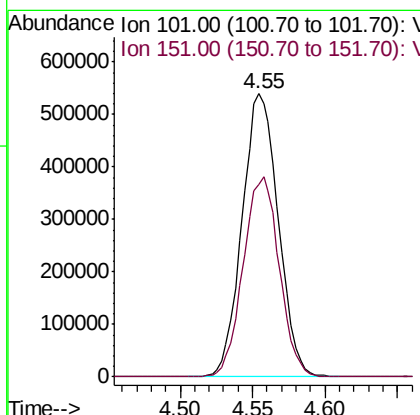
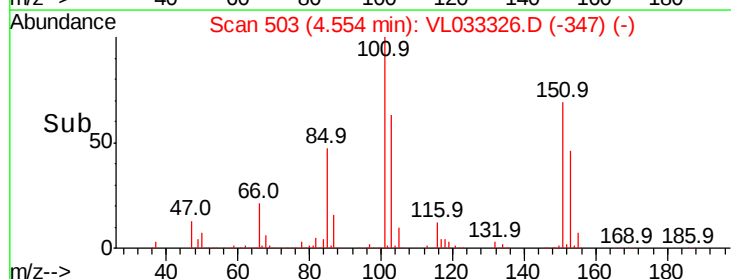
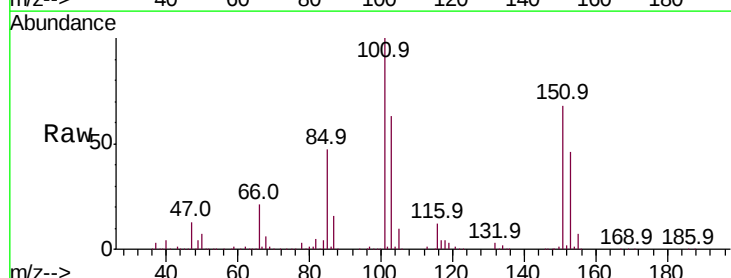
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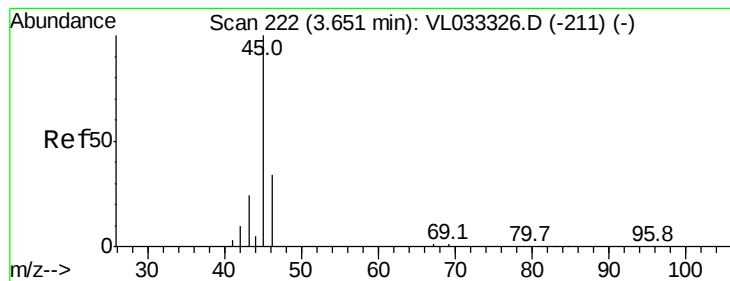
MMDadoda
 3/19/2019 10:02:14 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.733 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VL033326.D
 Acq: 15 Mar 2019 10:25

Tgt Ion:101 Resp: 938539
 Ion Ratio Lower Upper
 101 100
 151 70.4 56.3 84.5





#13

Ethanol

Concen: 5.868 ppbv

RT: 3.65 min Scan# 222

Delta R.T. 0.00 min

Lab File: VL033326.D

Acq: 15 Mar 2019 10:25

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 45 Resp: 89645

Ion Ratio Lower Upper

45 100

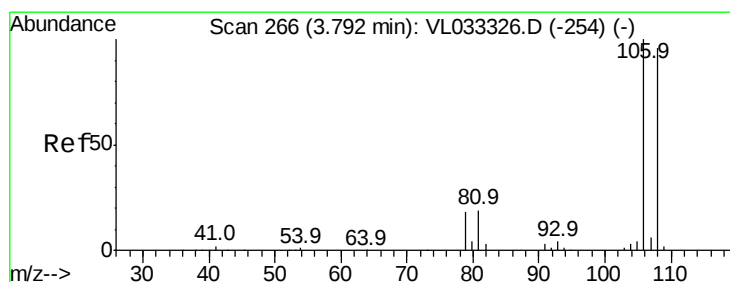
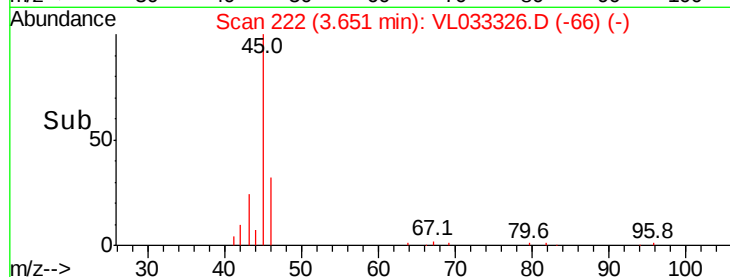
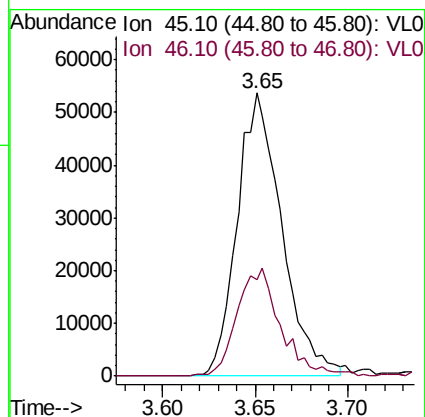
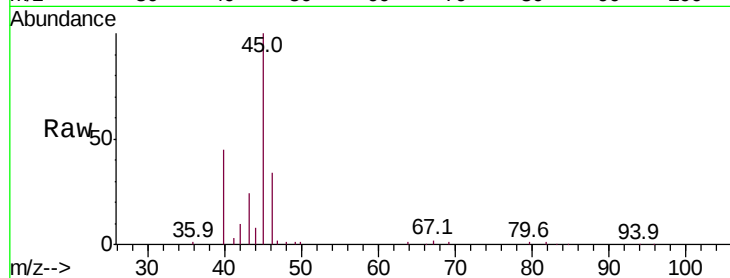
46 38.2 14.9 59.7

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#14

Bromoethene

Concen: 9.621 ppbv

RT: 3.79 min Scan# 266

Delta R.T. 0.00 min

Lab File: VL033326.D

Acq: 15 Mar 2019 10:25

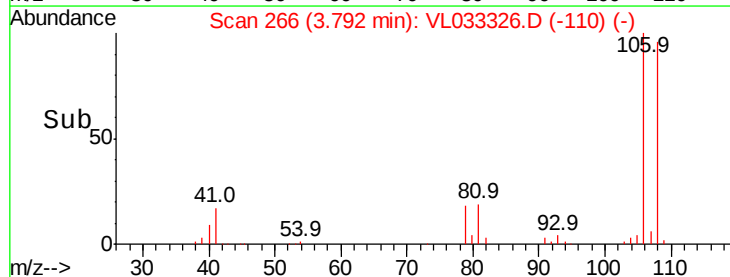
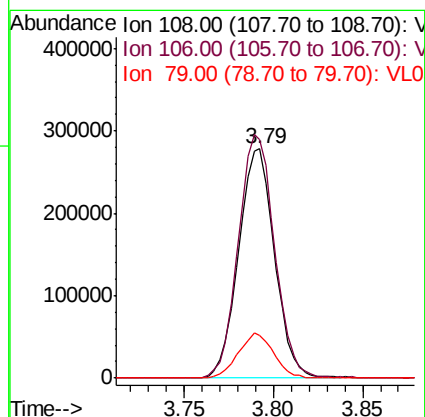
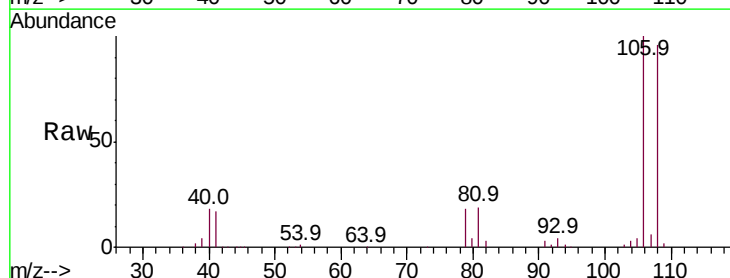
Tgt Ion: 108 Resp: 392440

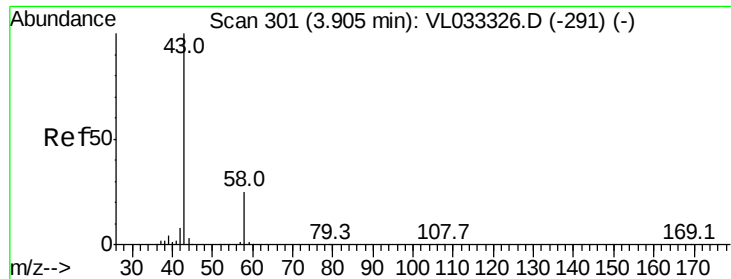
Ion Ratio Lower Upper

108 100

106 107.6 86.2 129.2

79 19.3 15.4 23.2





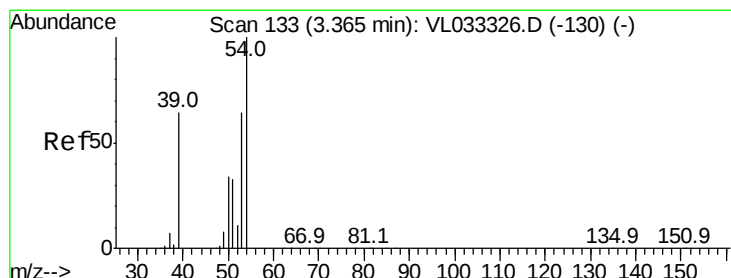
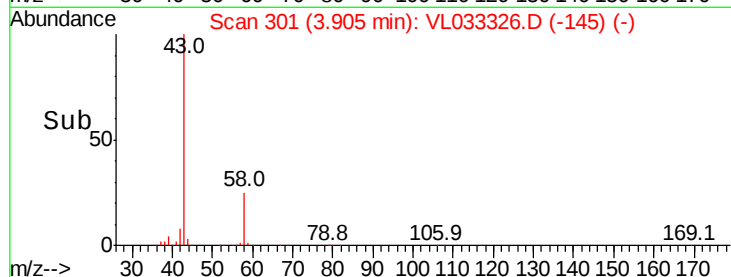
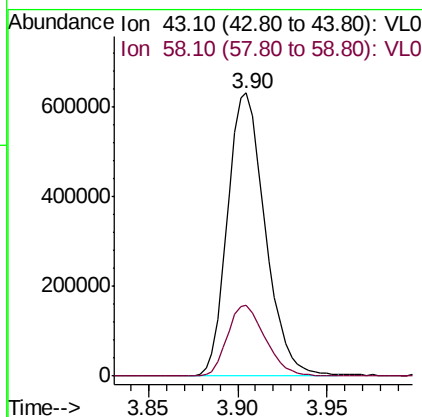
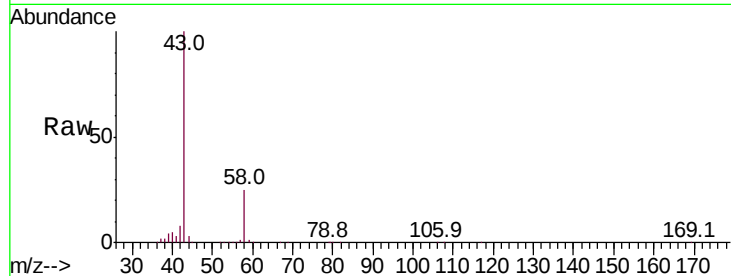
#15
Acetone
Concen: 7.086 ppbv
RT: 3.90 min Scan# 301
Delta R.T. 0.00 min
Lab File: VL033326.D
Acq: 15 Mar 2019 10:25

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 43 Resp: 928899
Ion Ratio Lower Upper
43 100
58 25.4 20.4 30.6

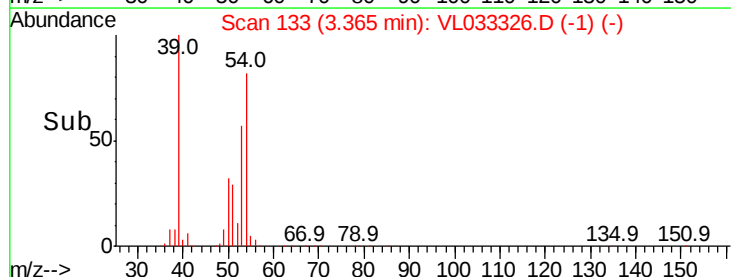
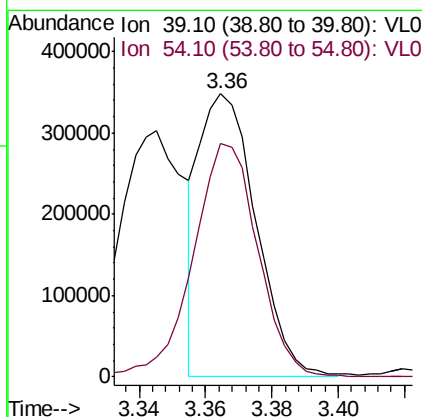
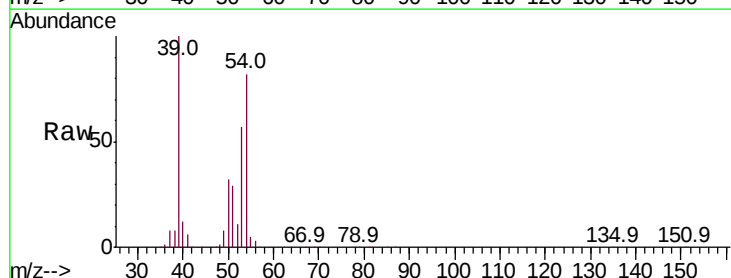
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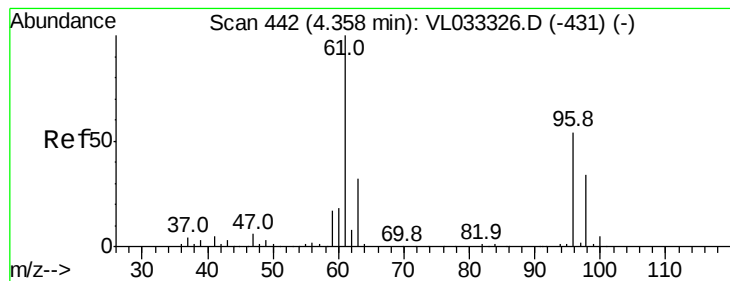
MMDadoda
3/19/2019 10:02:14 AM



#16
1,3-Butadiene
Concen: 8.891 ppbv
RT: 3.36 min Scan# 133
Delta R.T. 0.00 min
Lab File: VL033326.D
Acq: 15 Mar 2019 10:25

Tgt Ion: 39 Resp: 409223
Ion Ratio Lower Upper
39 100
54 96.0 76.8 115.2





#17

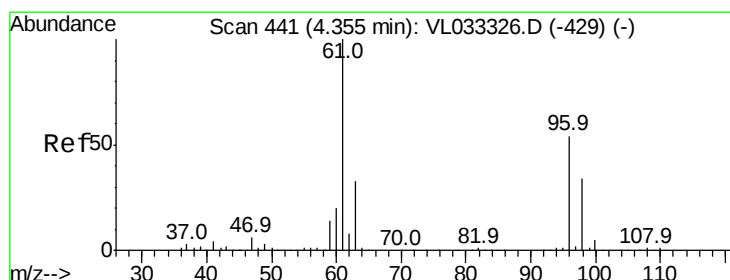
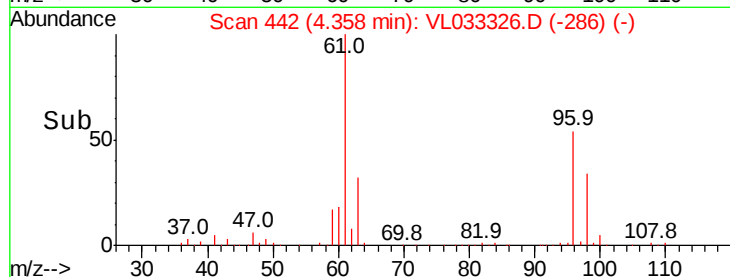
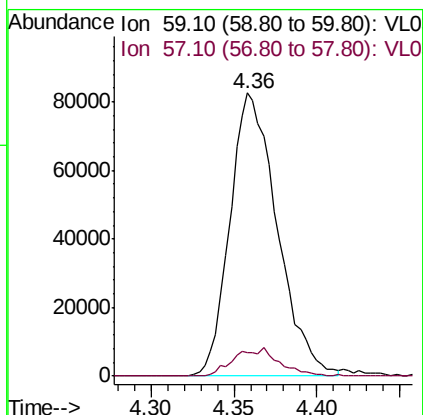
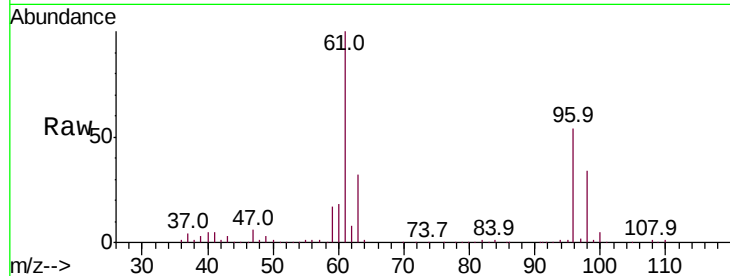
tert-Butyl alcohol
Concen: 8.760 ppbv
RT: 4.36 min Scan# 442
Delta R.T. 0.00 min
Lab File: VL033326.D
Acq: 15 Mar 2019 10:25

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	59	Resp	163805
Ion	Ratio	Lower	Upper
59	100		
57	9.6	7.7	11.5

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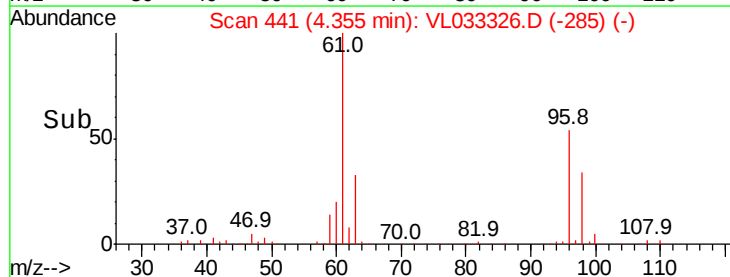
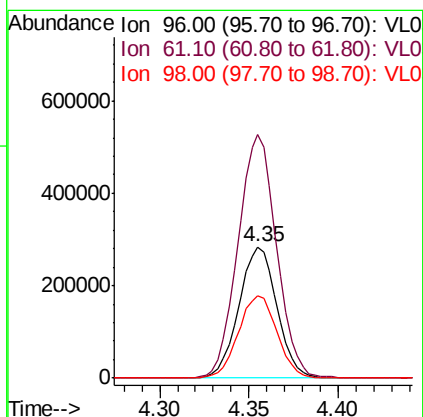
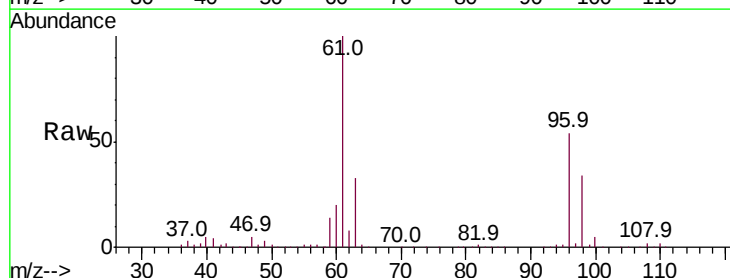
MMDadoda
3/19/2019 10:02:14 AM

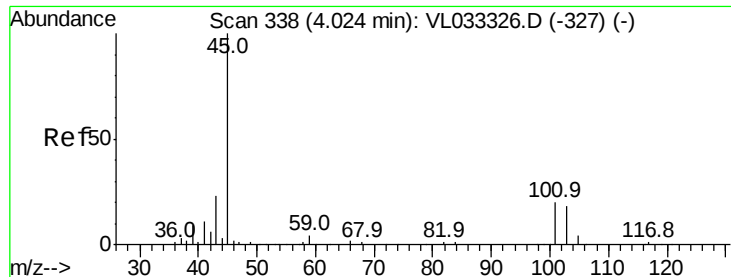


#18

1,1-Dichloroethene
Concen: 9.895 ppbv
RT: 4.35 min Scan# 441
Delta R.T. 0.00 min
Lab File: VL033326.D
Acq: 15 Mar 2019 10:25

Tgt Ion	96	Resp	422610
Ion	Ratio	Lower	Upper
96	100		
61	185.7	148.6	222.8
98	62.9	50.3	75.5





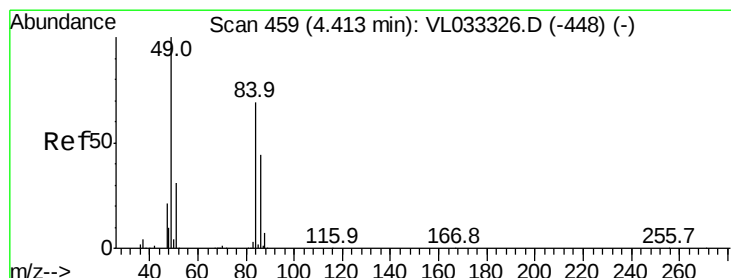
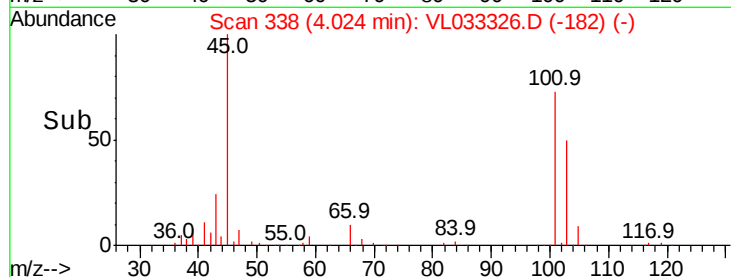
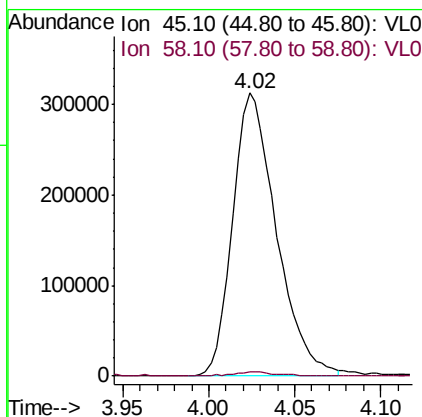
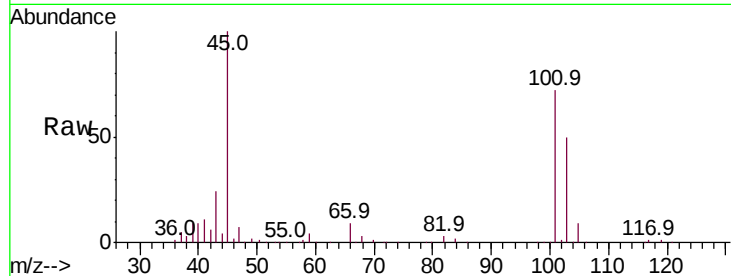
#19
Isopropyl Alcohol
Concen: 8.375 ppbv
RT: 4.02 min Scan# 338
Delta R.T. 0.00 min
Lab File: VL033326.D
Acq: 15 Mar 2019 10:25

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 45 Resp: 550835
Ion Ratio Lower Upper
45 100
58 1.9 1.5 2.3

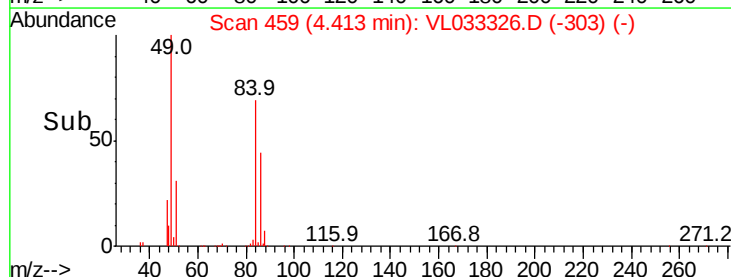
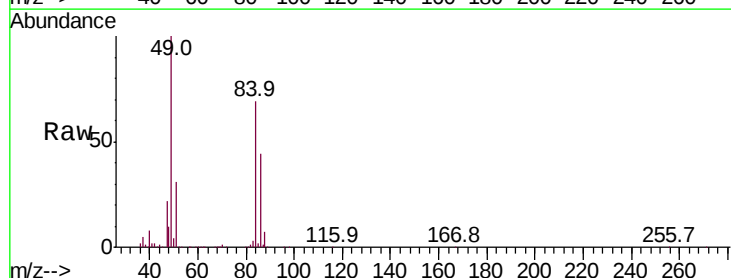
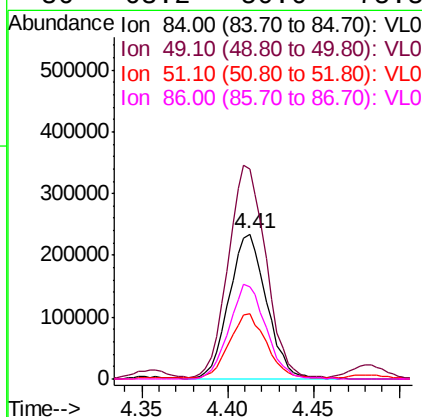
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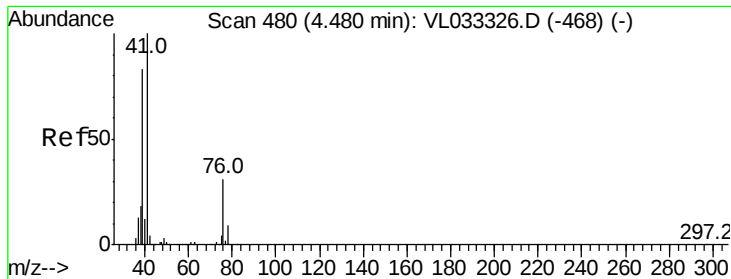
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#20
Methylene Chloride
Concen: 8.423 ppbv
RT: 4.41 min Scan# 459
Delta R.T. 0.00 min
Lab File: VL033326.D
Acq: 15 Mar 2019 10:25

Tgt Ion: 84 Resp: 353757
Ion Ratio Lower Upper
84 100
49 144.2 115.4 173.0
51 44.7 35.8 53.6
86 63.2 50.6 75.8





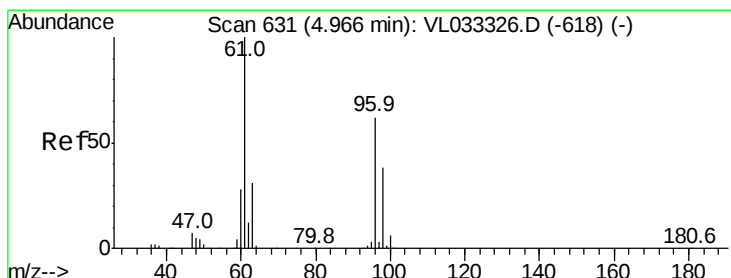
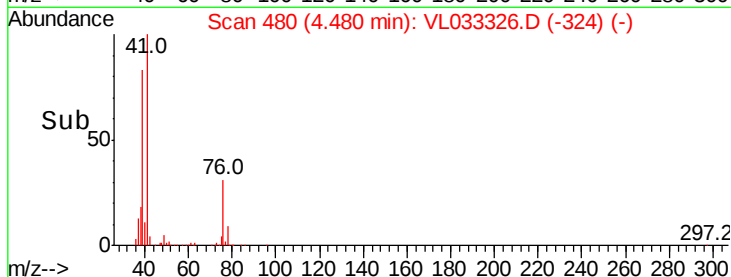
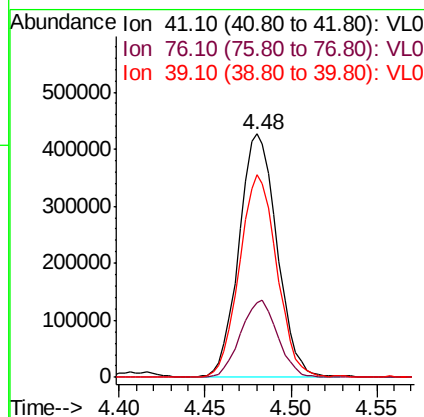
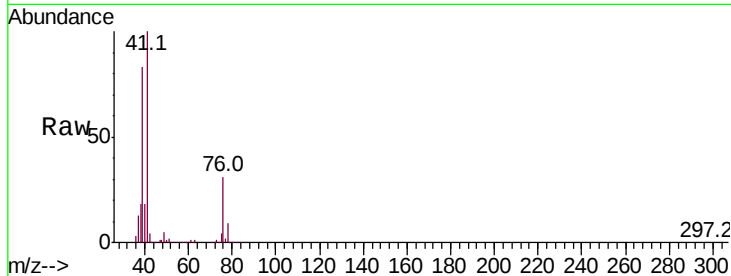
#21
Allvl Chloride
Concen: 10.027 ppbv
RT: 4.48 min Scan# 480
Delta R.T. 0.00 min
Lab File: VL033326.D
Acq: 15 Mar 2019 10:25

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Resp	Lower	Upper
41	100			
76	31.2	25.0	37.4	
39	82.6	65.9	98.9	

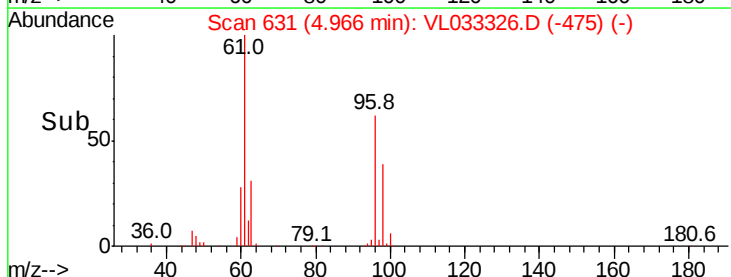
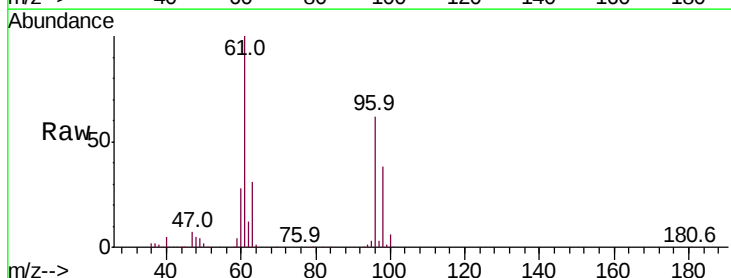
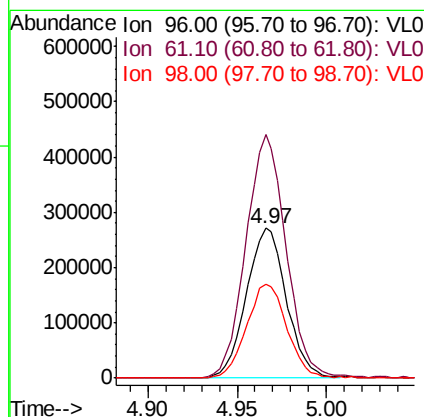
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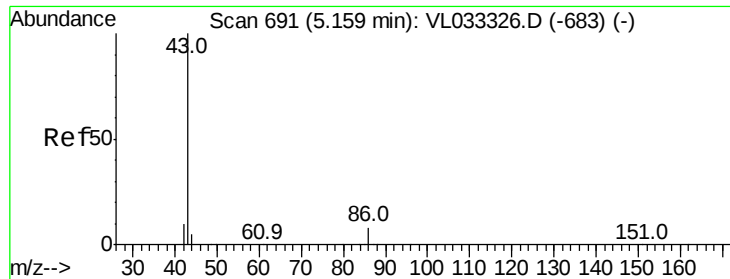
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 10.010 ppbv
RT: 4.97 min Scan# 631
Delta R.T. 0.00 min
Lab File: VL033326.D
Acq: 15 Mar 2019 10:25

Tgt Ion	Ratio	Resp	Lower	Upper
96	100			
61	162.5	130.0	195.0	
98	62.5	50.0	75.0	





#23

Vinyl Acetate

Concen: 9.825 ppbv

RT: 5.16 min Scan# 691

Delta R.T. 0.00 min

Lab File: VL033326.D

Acq: 15 Mar 2019 10:25

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 1504143

Ion Ratio Lower Upper

43 100

86 7.7 6.2 9.2

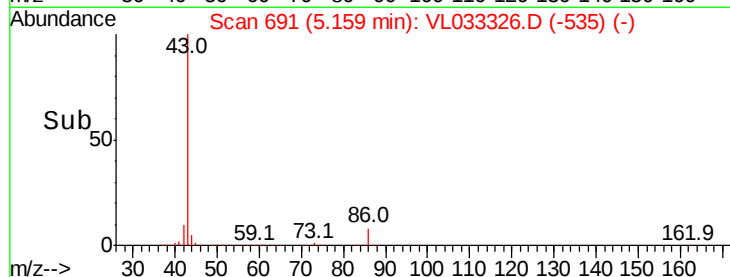
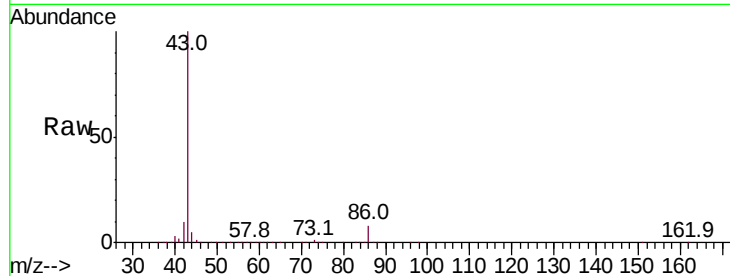
42 10.1 8.1 12.1

44 5.1 4.1 6.1

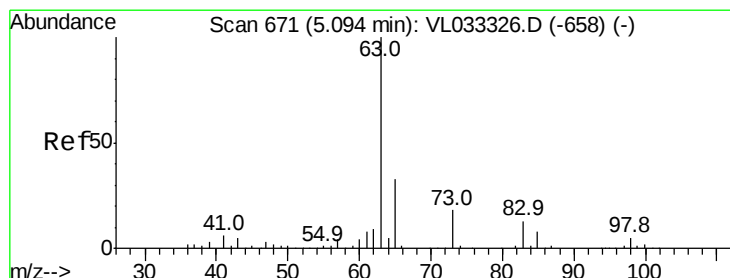
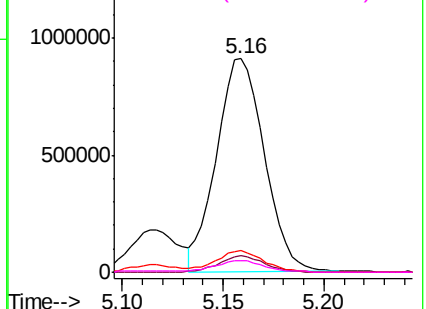
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.624 ppbv

RT: 5.09 min Scan# 671

Delta R.T. 0.00 min

Lab File: VL033326.D

Acq: 15 Mar 2019 10:25

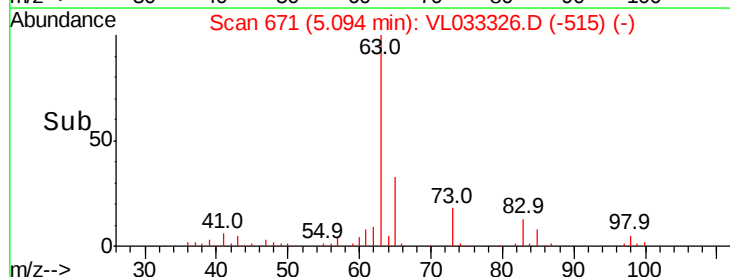
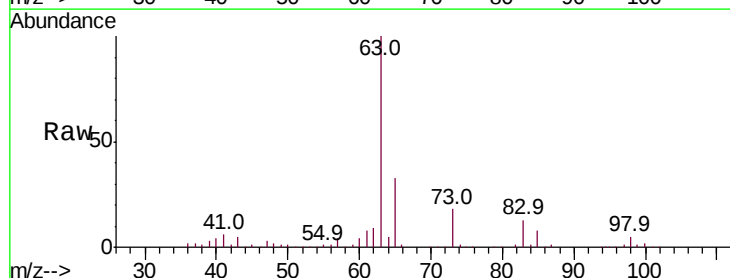
Tgt Ion: 63 Resp: 1050011

Ion Ratio Lower Upper

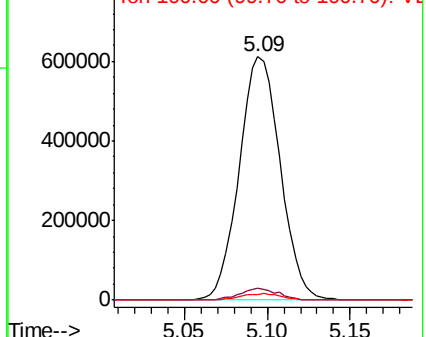
63 100

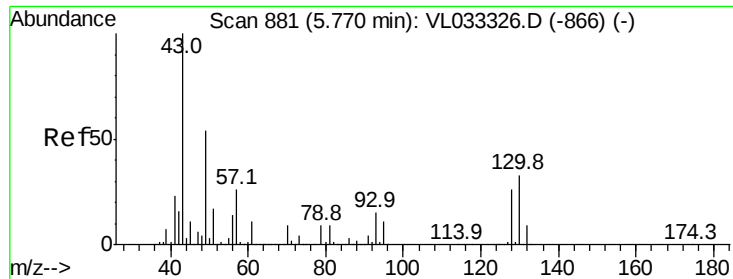
98 4.7 2.4 7.1

100 2.5 1.3 3.8



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0





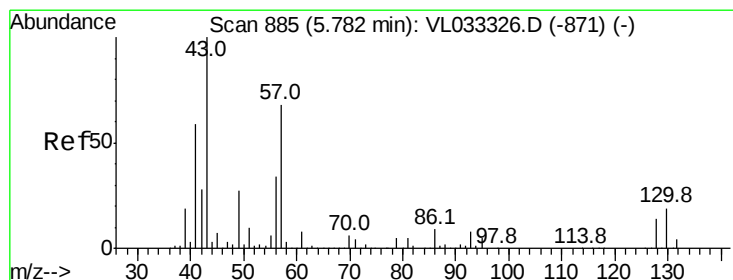
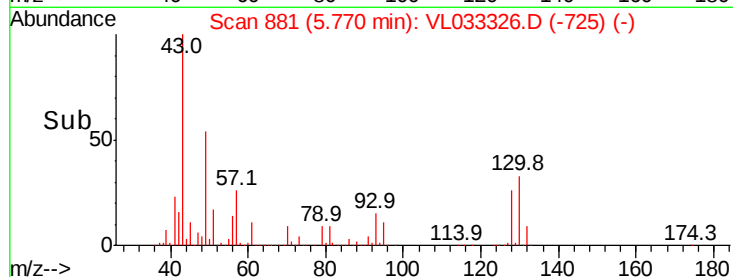
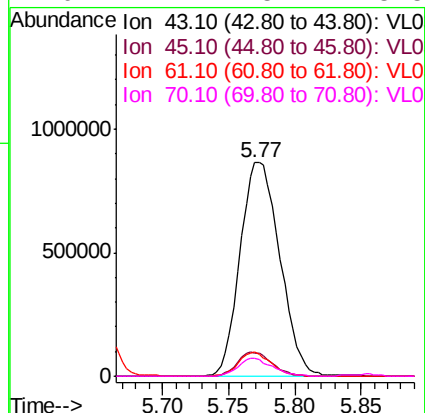
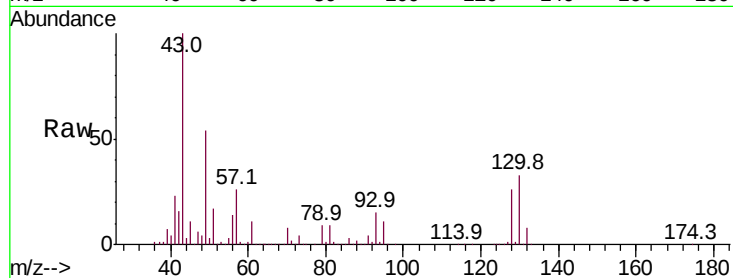
#25
Ethyl Acetate
Concen: 9.526 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.00 min
Lab File: VL033326.D
Acq: 15 Mar 2019 10:25

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.9	7.9	11.9
61	9.3	7.4	11.2
70	7.1	5.7	8.5

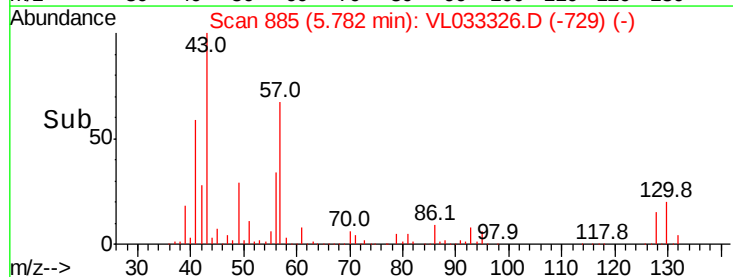
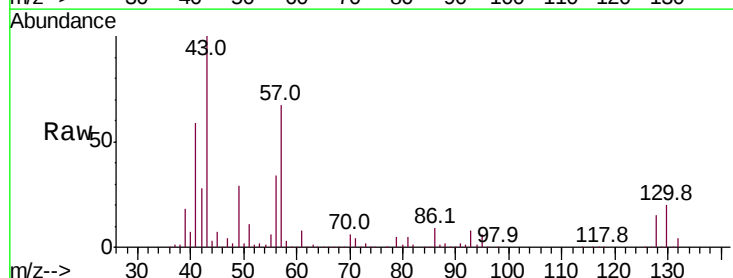
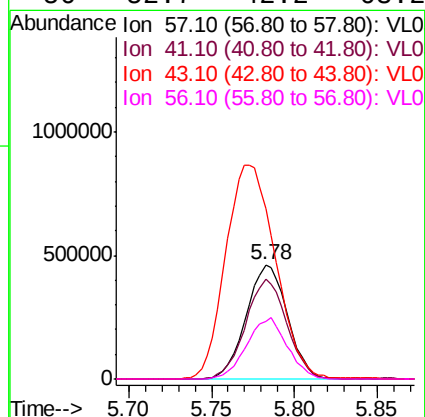
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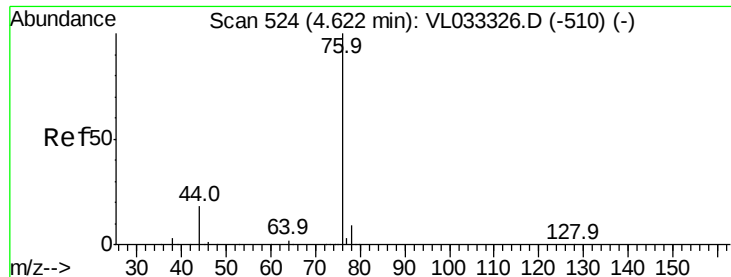
MMDadoda
3/19/2019 10:02:14 AM



#26
Hexane
Concen: 9.197 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.00 min
Lab File: VL033326.D
Acq: 15 Mar 2019 10:25

Tgt Ion	Ratio	Lower	Upper
57	100		
41	88.1	70.5	105.7
43	227.3	181.8	272.8
56	52.7	42.2	63.2





#27

Carbon Disulfide

Concen: 10.650 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033326.D

Acq: 15 Mar 2019 10:25

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 76 Resp: 1043072

Ion Ratio Lower Upper

76 100

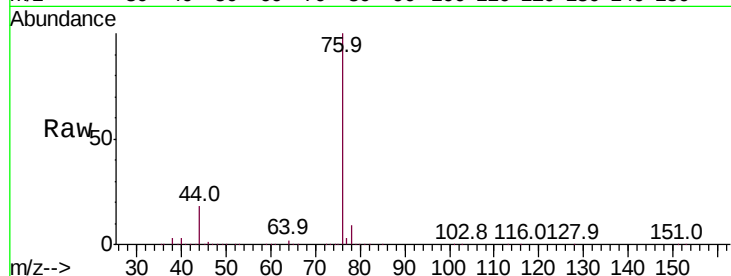
44 19.0 15.2 22.8

78 9.0 7.2 10.8

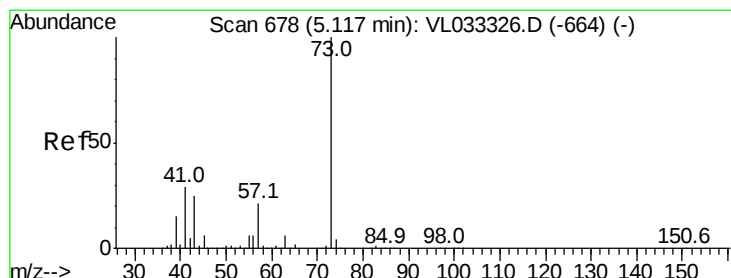
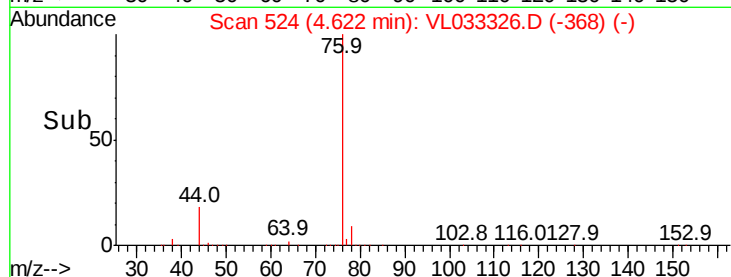
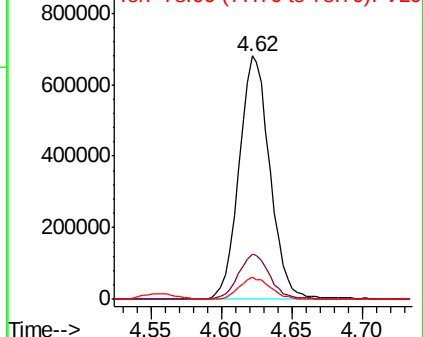
Manual Integrations
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MMDadoda

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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.069 ppbv

RT: 5.12 min Scan# 678

Delta R.T. 0.00 min

Lab File: VL033326.D

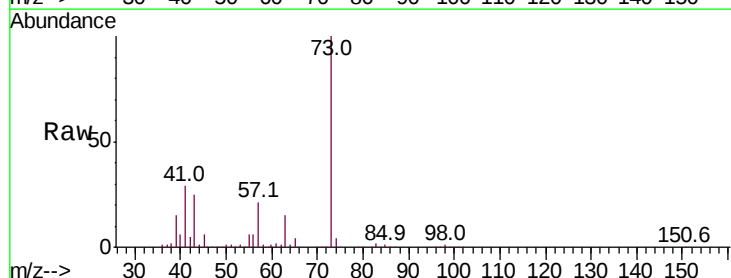
Acq: 15 Mar 2019 10:25

Tgt Ion: 73 Resp: 1258899

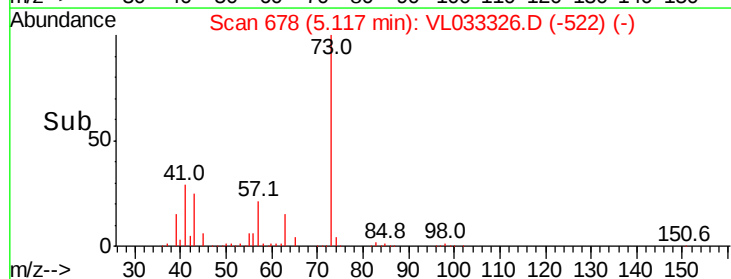
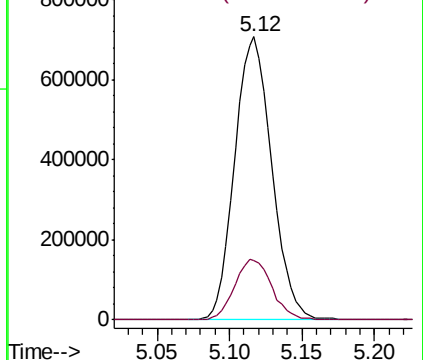
Ion Ratio Lower Upper

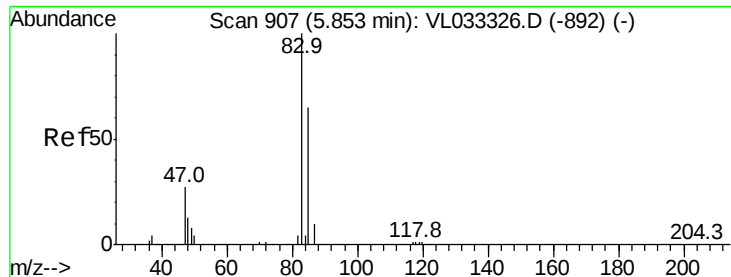
73 100

57 21.7 17.4 26.0



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





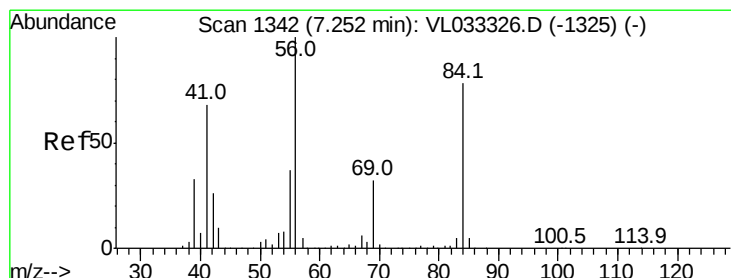
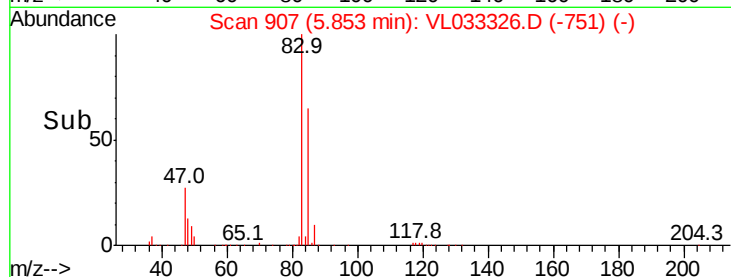
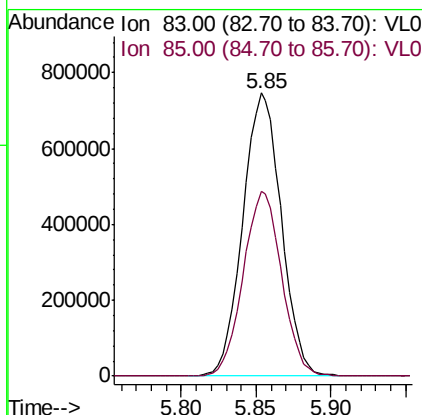
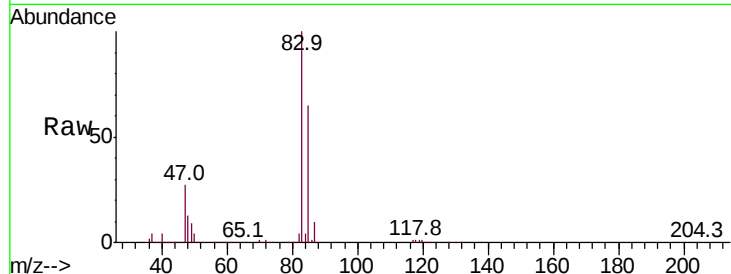
#29
Chloroform
Concen: 9.463 ppbv
RT: 5.85 min Scan# 907
Delta R.T. 0.00 min
Lab File: VL033326.D
Acq: 15 Mar 2019 10:25

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 83 Resp: 1338995
Ion Ratio Lower Upper
83 100
85 65.0 52.0 78.0

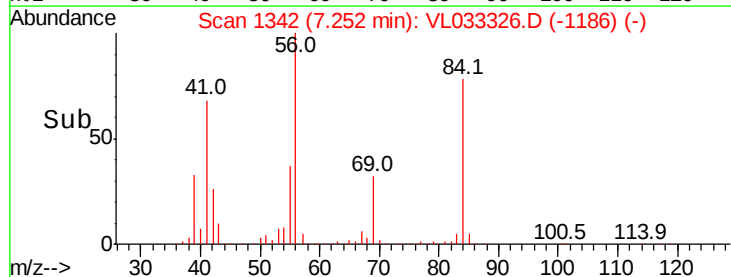
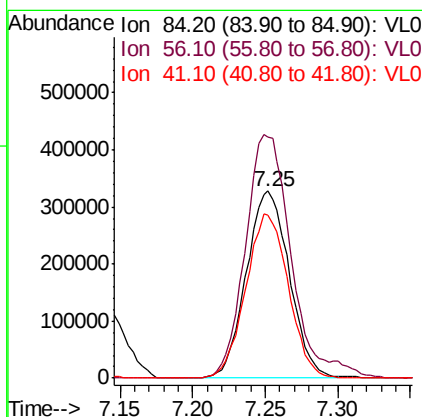
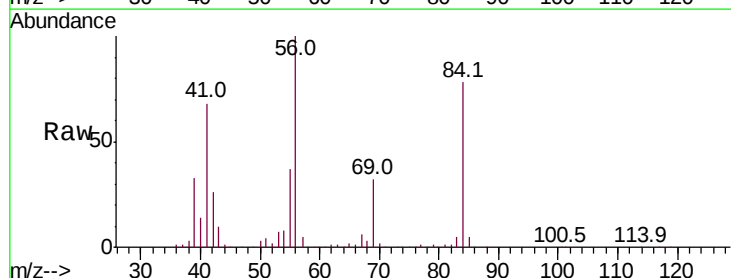
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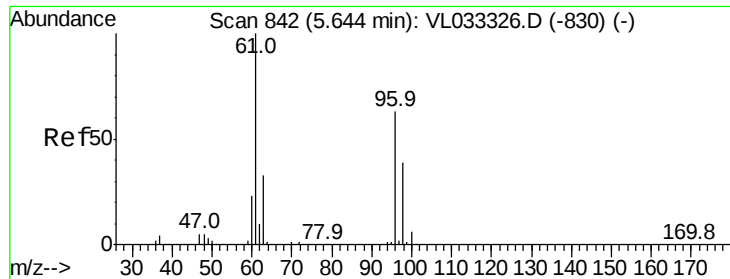
MMDadoda
3/19/2019 10:02:14 AM



#30
Cyclohexane
Concen: 9.870 ppbv
RT: 7.25 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VL033326.D
Acq: 15 Mar 2019 10:25

Tgt Ion: 84 Resp: 678472
Ion Ratio Lower Upper
84 100
56 139.1 111.3 166.9
41 87.0 69.6 104.4





#31

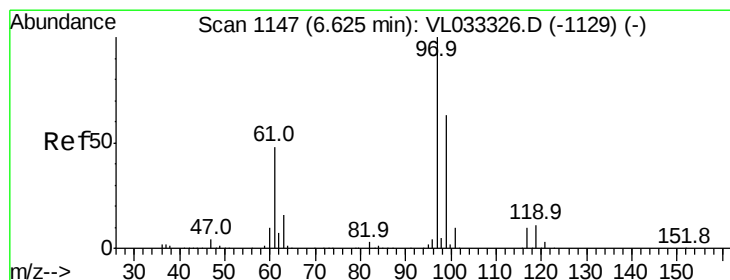
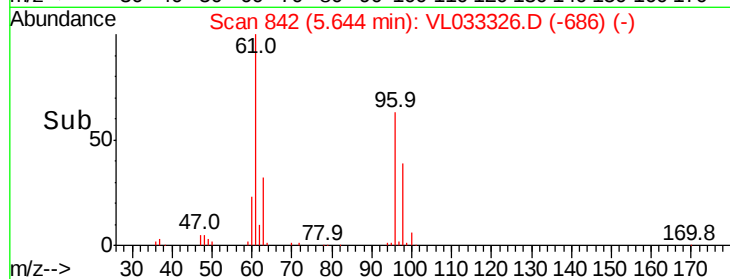
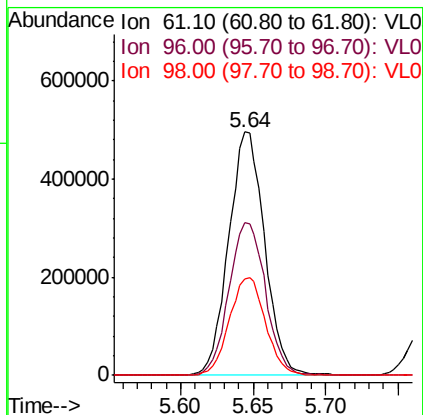
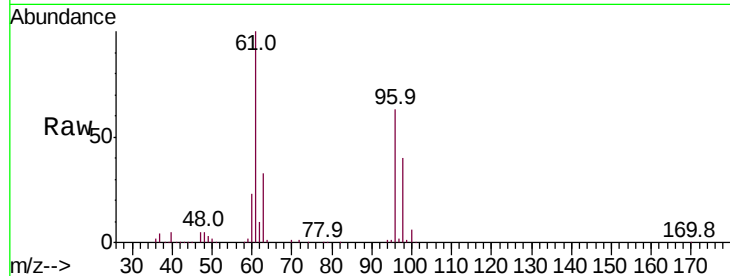
cis-1,2-Dichloroethene
Concen: 9.915 ppbv
RT: 5.64 min Scan# 842
Delta R.T. 0.00 min
Lab File: VL033326.D
Acq: 15 Mar 2019 10:25

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	62.9	50.3	75.5
98	39.4	31.5	47.3

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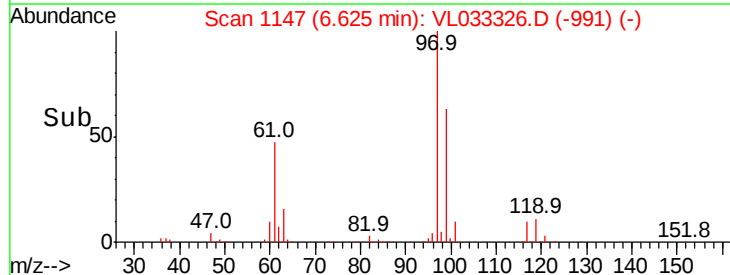
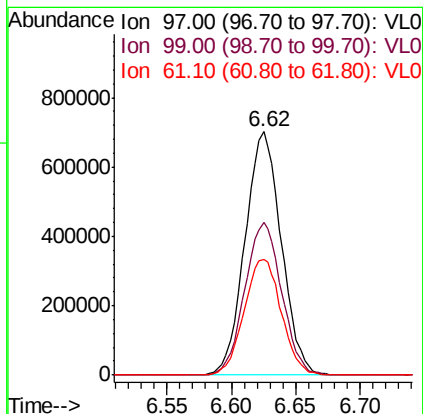
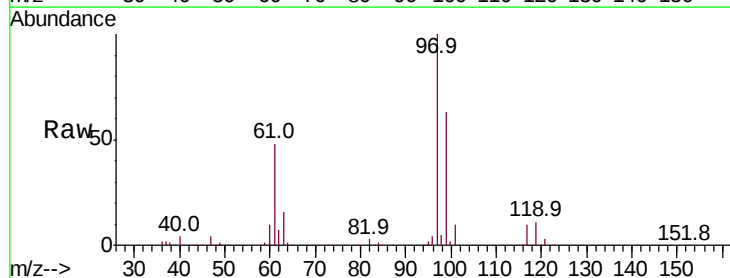
MMDadoda
3/19/2019 10:02:14 AM

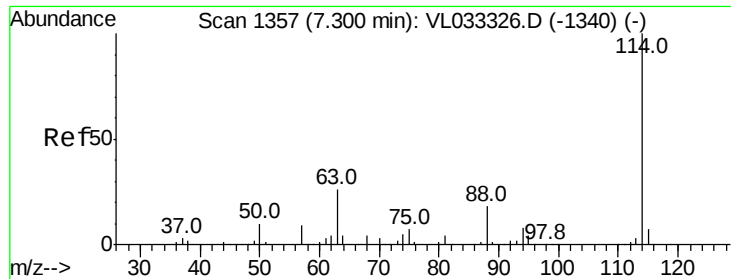


#32

1,1,1-Trichloroethane
Concen: 9.795 ppbv
RT: 6.62 min Scan# 1147
Delta R.T. 0.00 min
Lab File: VL033326.D
Acq: 15 Mar 2019 10:25

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.0	76.6
61	49.0	39.3	58.9





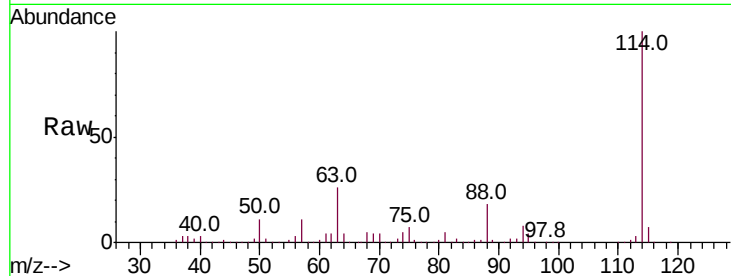
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1357
 Delta R.T. 0.00 min
 Lab File: VL033326.D
 Acq: 15 Mar 2019 10:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

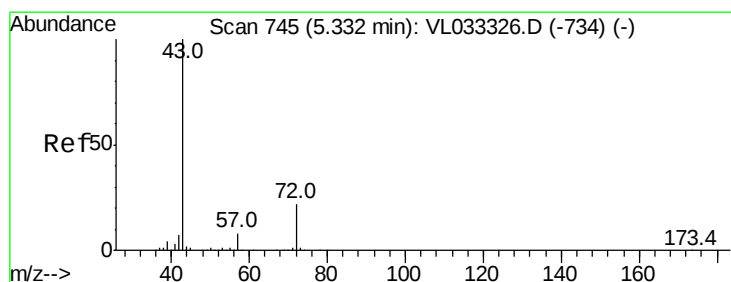
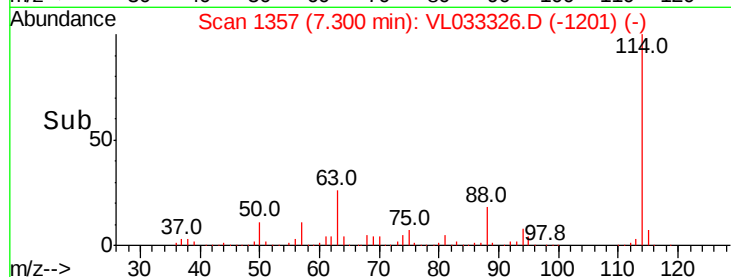
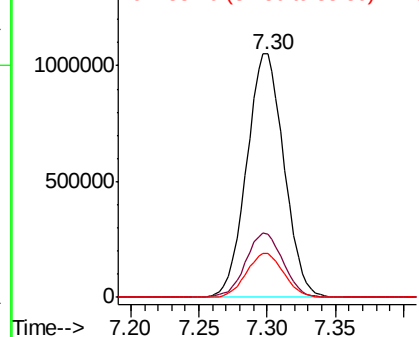
Tot Ion	Ratio	Lower	Upper
114	100		
63	26.8	21.4	32.2
88	18.1	14.5	21.7

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MMDadoda
 3/19/2019 10:02:14 AM

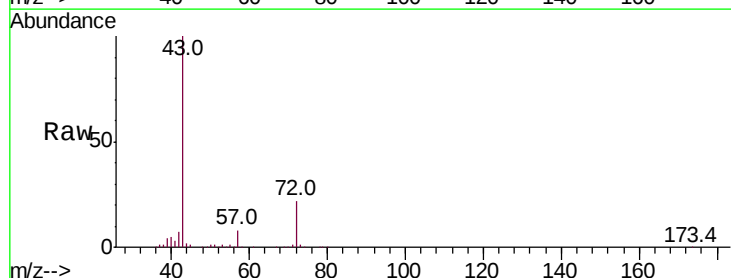


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

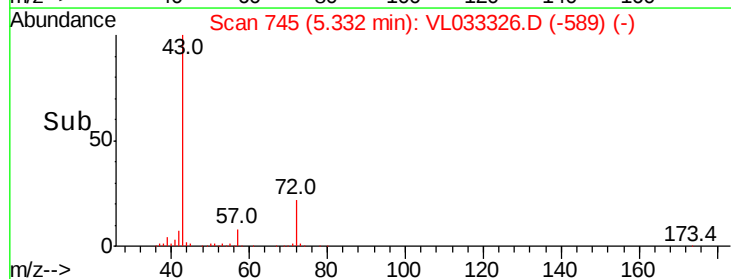
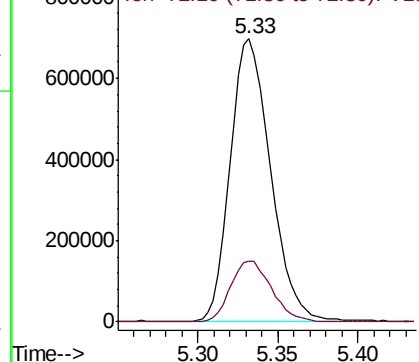


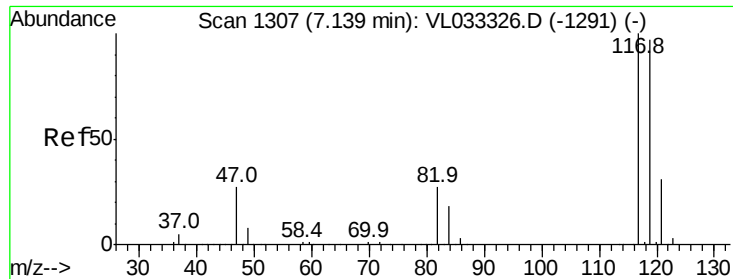
#34
 2-Butanone
 Concen: 9.434 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. 0.00 min
 Lab File: VL033326.D
 Acq: 15 Mar 2019 10:25

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.1	17.7	26.5



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





#35

Carbon Tetrachloride

Concen: 9.714 ppbv

RT: 7.14 min Scan# 1307

Delta R.T. 0.00 min

Lab File: VL033326.D

Acq: 15 Mar 2019 10:25

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:117 Resp: 1396355

Ion Ratio Lower Upper

117 100

119 96.7 77.4 116.0

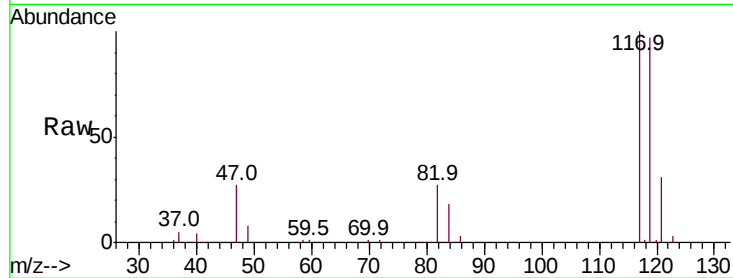
121 31.1 24.9 37.3

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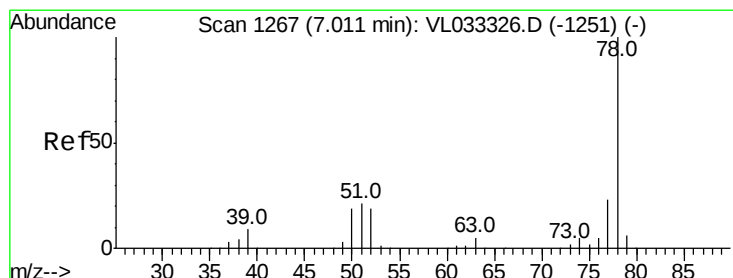
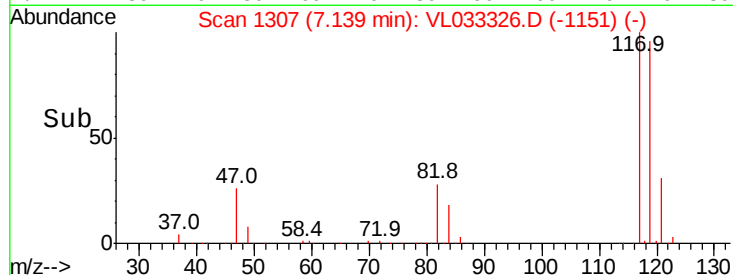
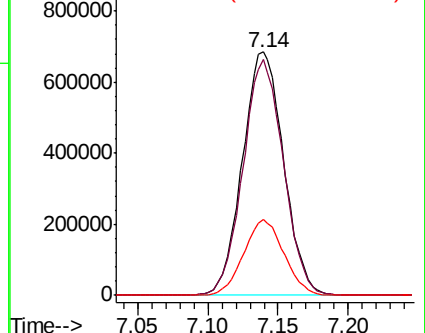
3/19/2019 10:02:14 AM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.546 ppbv

RT: 7.01 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VL033326.D

Acq: 15 Mar 2019 10:25

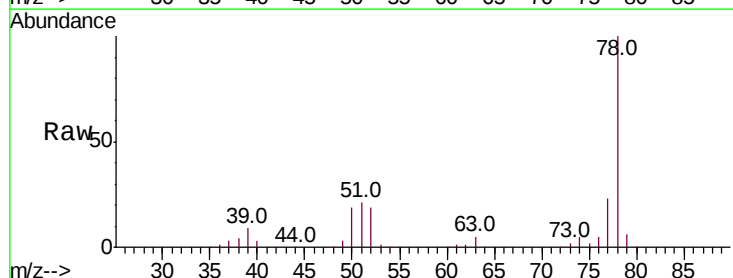
Tgt Ion: 78 Resp: 1699383

Ion Ratio Lower Upper

78 100

77 22.6 18.1 27.1

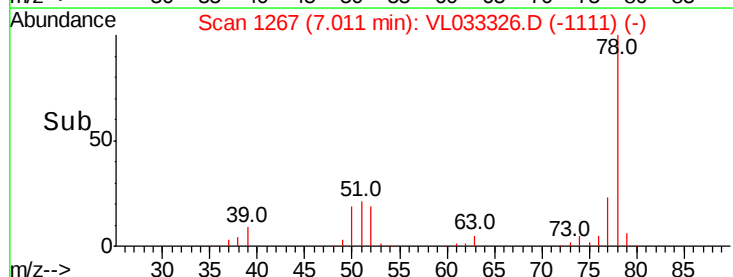
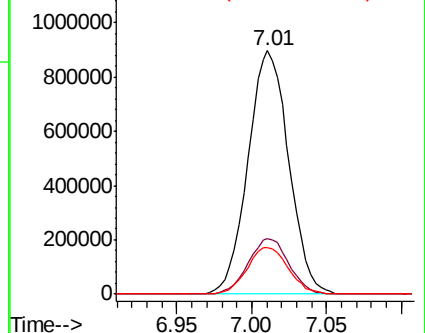
50 19.0 15.2 22.8

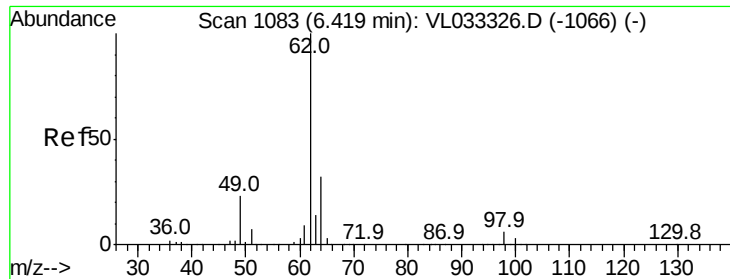


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





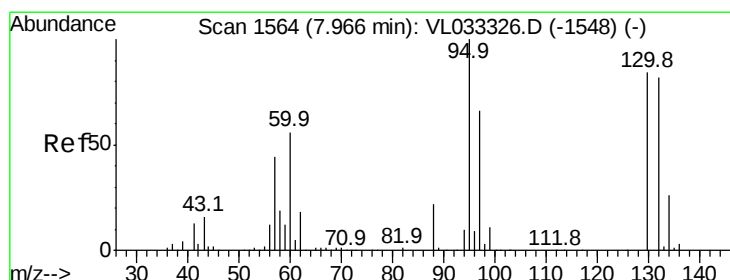
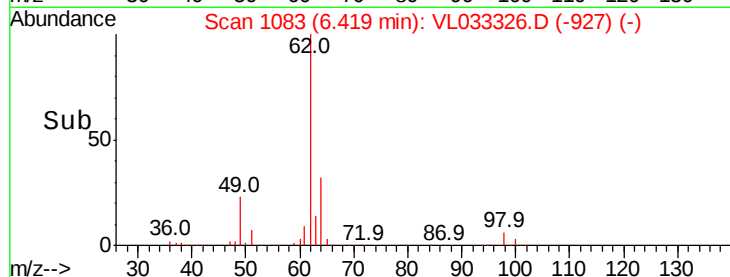
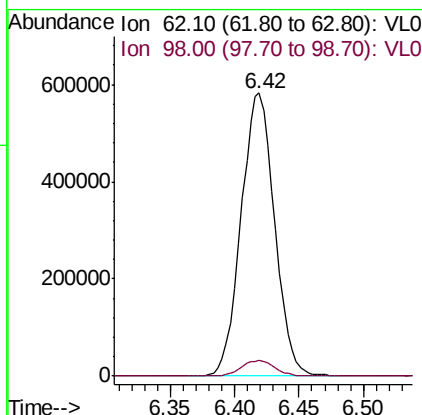
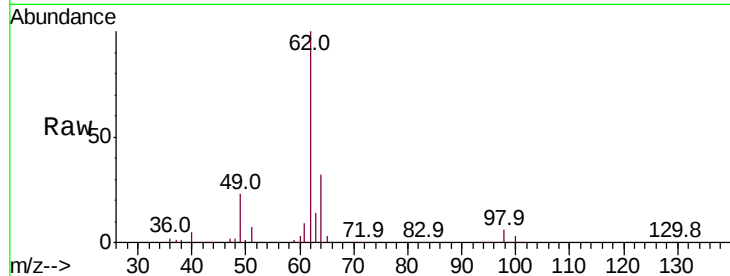
#37
1,2-Dichloroethane
Concen: 9.494 ppbv
RT: 6.42 min Scan# 1083
Delta R.T. 0.00 min
Lab File: VL033326.D
Acq: 15 Mar 2019 10:25

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 62 Resp: 1053756
Ion Ratio Lower Upper
62 100
98 5.6 4.5 6.7

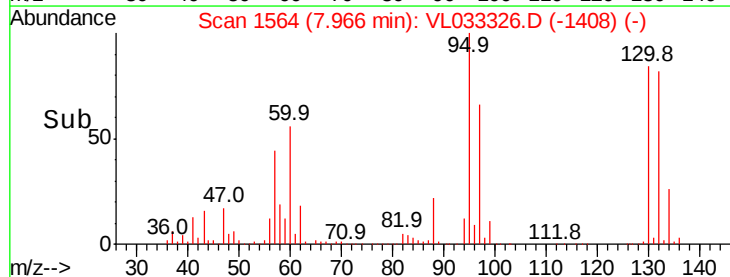
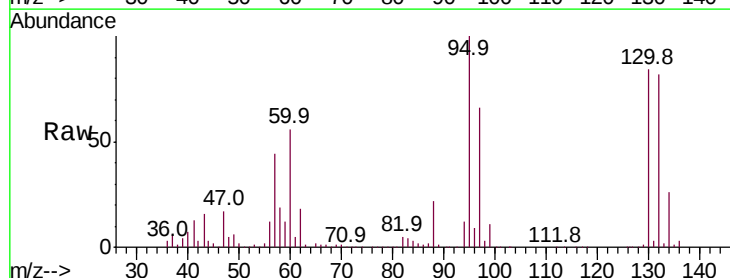
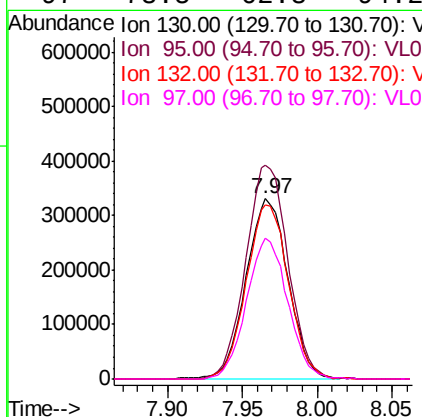
Manual Integrations
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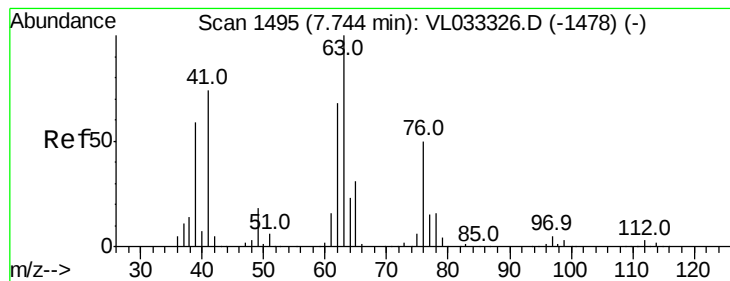
MMDadoda
3/19/2019 10:02:14 AM



#38
Trichloroethene
Concen: 9.138 ppbv
RT: 7.97 min Scan# 1564
Delta R.T. 0.00 min
Lab File: VL033326.D
Acq: 15 Mar 2019 10:25

Tgt Ion:130 Resp: 640296
Ion Ratio Lower Upper
130 100
95 119.0 95.2 142.8
132 97.1 77.7 116.5
97 78.5 62.8 94.2





#39

1,2-Dichloropropane

Concen: 9.503 ppbv

RT: 7.74 min Scan# 1495

Delta R.T. 0.00 min

Lab File: VL033326.D

Acq: 15 Mar 2019 10:25

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 63 Resp: 643787

Ion Ratio Lower Upper

63 100

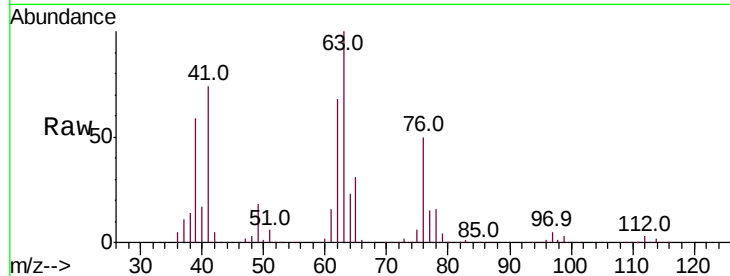
41 74.4 59.5 89.3

62 68.4 54.7 82.1

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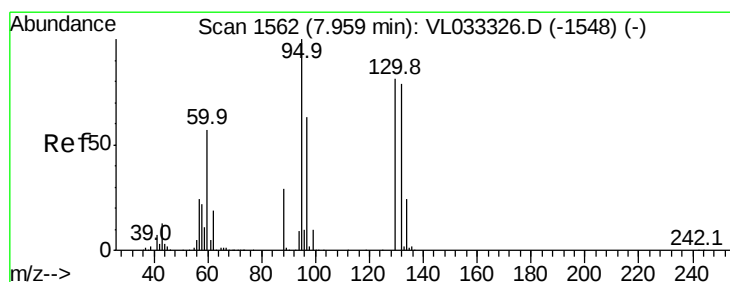
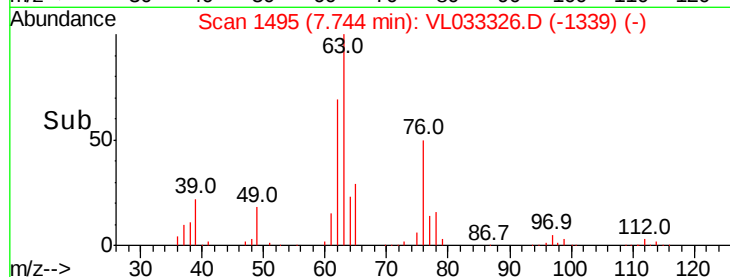
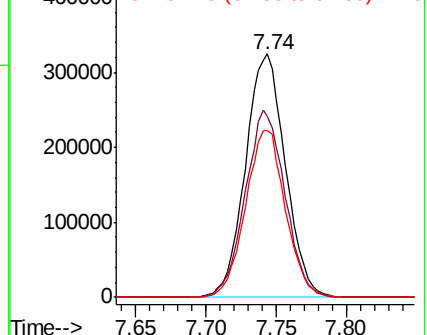
3/19/2019 10:02:14 AM



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 8.827 ppbv

RT: 7.96 min Scan# 1562

Delta R.T. 0.00 min

Lab File: VL033326.D

Acq: 15 Mar 2019 10:25

Tgt Ion: 88 Resp: 219037

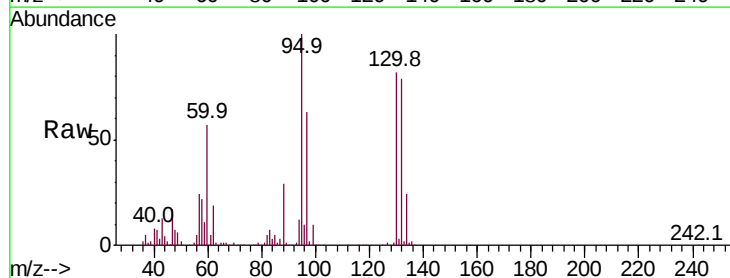
Ion Ratio Lower Upper

88 100

58 134.8 107.9 161.9

43 288.6 230.8 346.2

57 1294.0 1035.3 1552.9

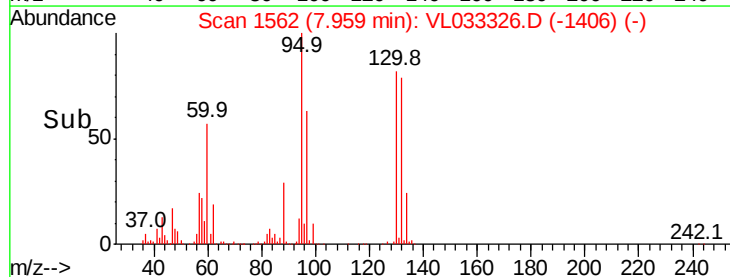
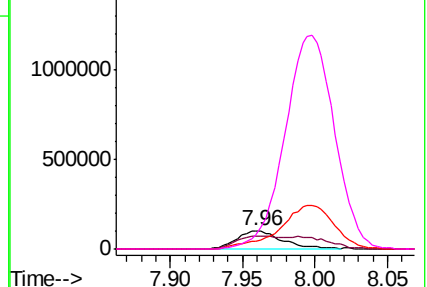


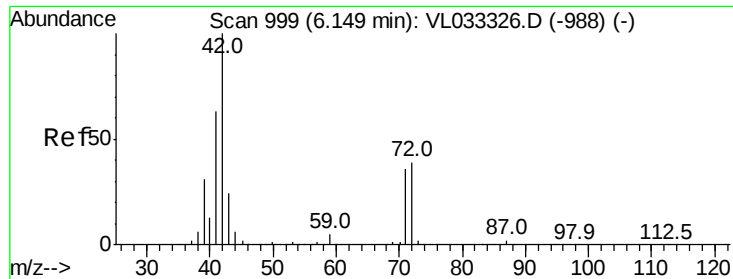
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





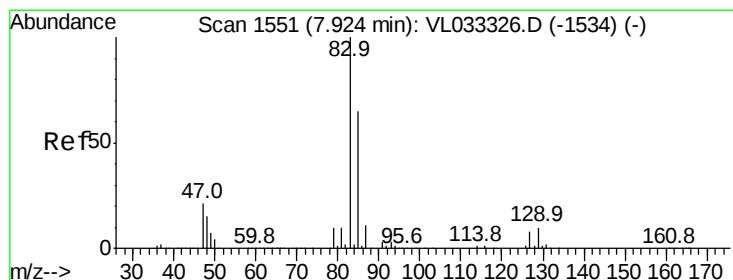
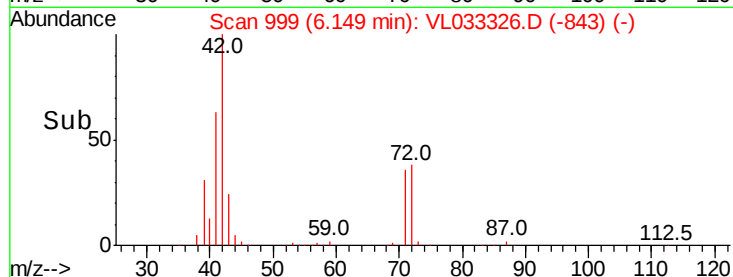
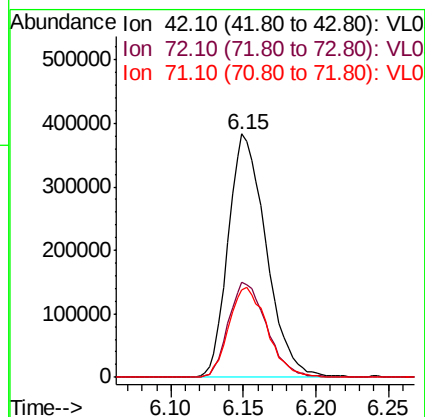
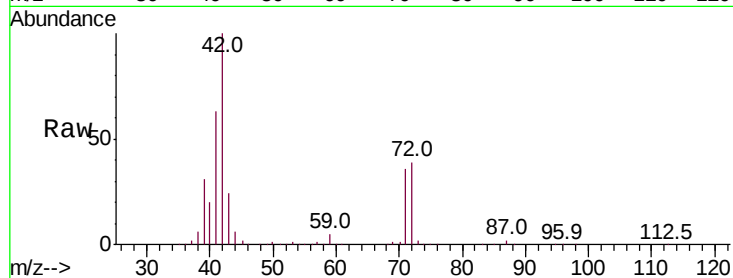
#41
Tetrahydrofuran
Concen: 9.948 ppbv
RT: 6.15 min Scan# 999
Delta R.T. 0.00 min
Lab File: VL033326.D
Acq: 15 Mar 2019 10:25

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.5	31.6	47.4
71	37.4	29.9	44.9

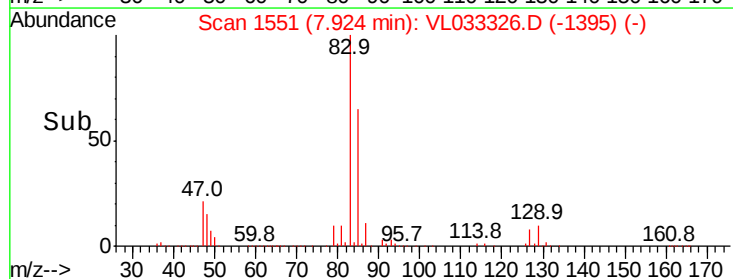
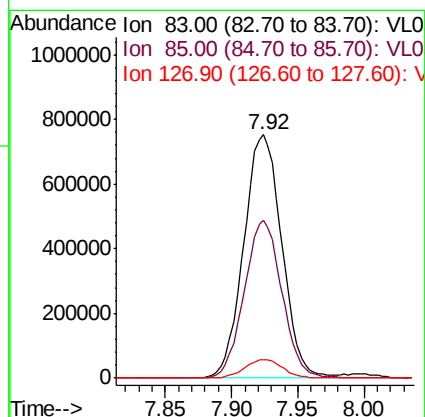
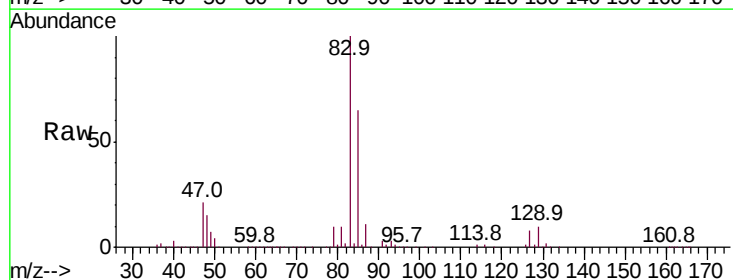
Manual Integrations
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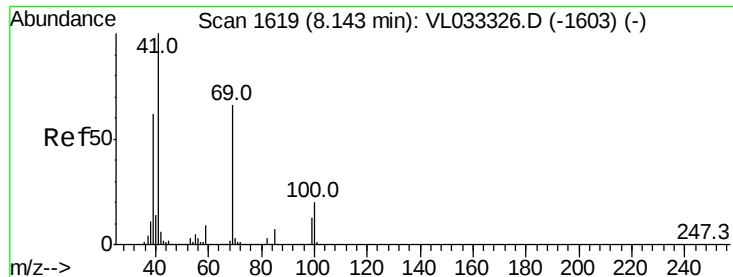
MMDadoda
3/19/2019 10:02:14 AM



#42
Bromodichloromethane
Concen: 9.961 ppbv
RT: 7.92 min Scan# 1551
Delta R.T. 0.00 min
Lab File: VL033326.D
Acq: 15 Mar 2019 10:25

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.8	77.6
127	7.7	6.2	9.2





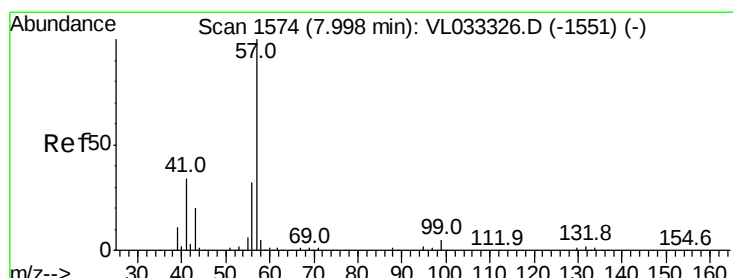
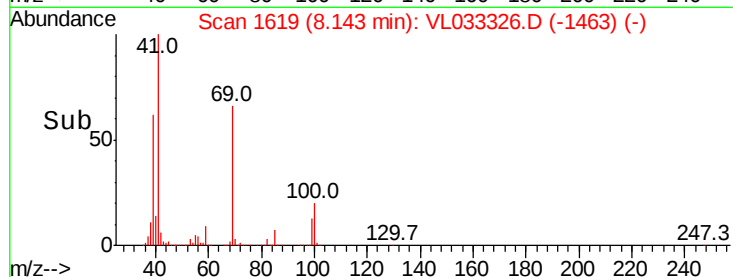
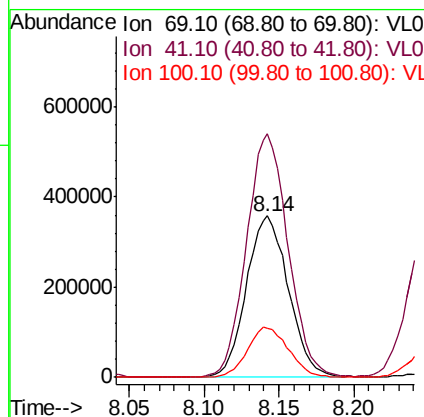
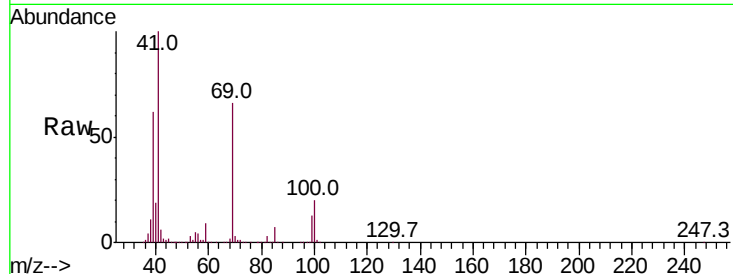
#43
Methyl Methacrylate
Concen: 10.078 ppbv
RT: 8.14 min Scan# 1619
Delta R.T. 0.00 min
Lab File: VL033326.D
Acq: 15 Mar 2019 10:25

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
69	100		
41	149.0	119.5	179.3
100	30.6	24.4	36.6

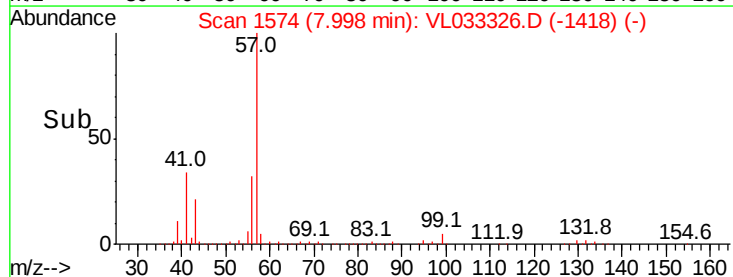
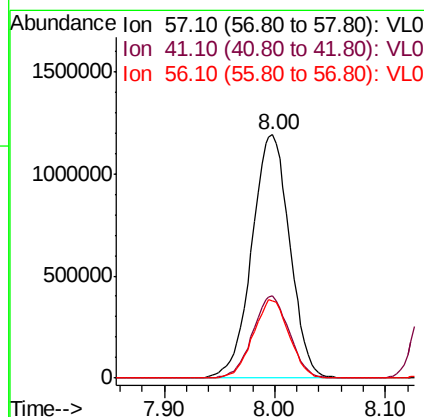
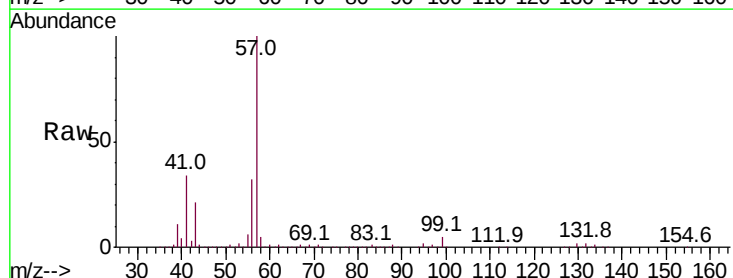
Manual Integrations
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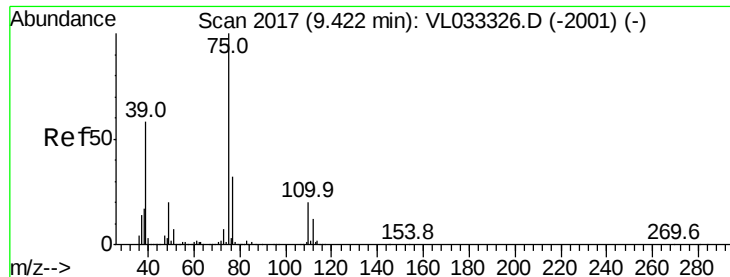
MMDadoda
3/19/2019 10:02:14 AM



#44
2,2,4-Trimethylpentane
Concen: 9.480 ppbv
RT: 8.00 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VL033326.D
Acq: 15 Mar 2019 10:25

Tgt Ion	Ratio	Lower	Upper
57	100		
41	32.6	26.0	39.0
56	30.7	24.6	36.8





#45

t-1,3-Dichloropropene

Concen: 11.582 ppbv

RT: 9.42 min Scan# 2017

Delta R.T. 0.00 min

Lab File: VL033326.D

Acq: 15 Mar 2019 10:25

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 75 Resp: 984897

Ion Ratio Lower Upper

75 100

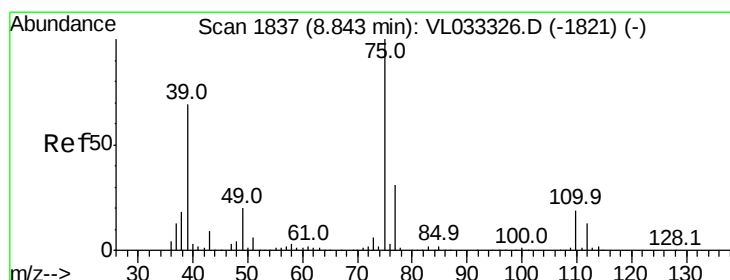
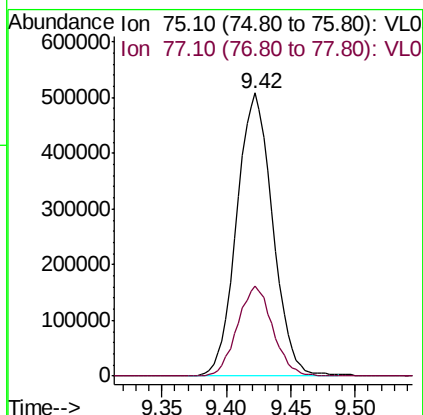
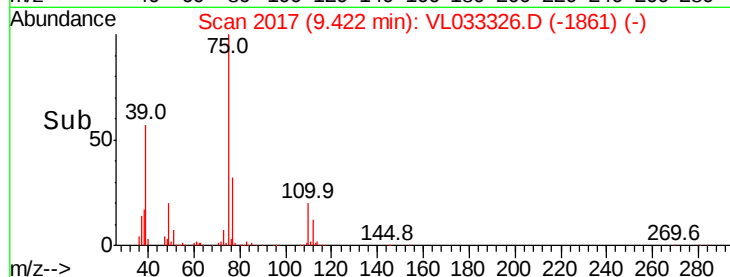
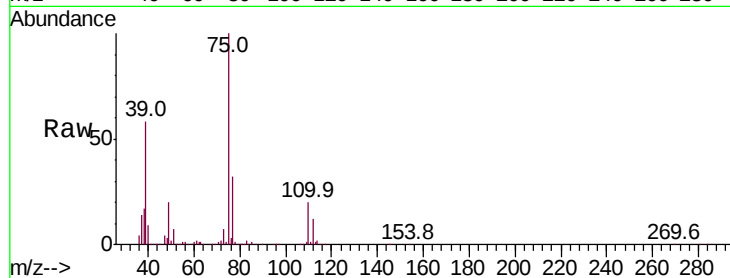
77 31.9 25.5 38.3

Manual Integrations

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MMDadoda

3/19/2019 10:02:14 AM



#46

cis-1,3-Dichloropropene

Concen: 10.819 ppbv

RT: 8.84 min Scan# 1837

Delta R.T. 0.00 min

Lab File: VL033326.D

Acq: 15 Mar 2019 10:25

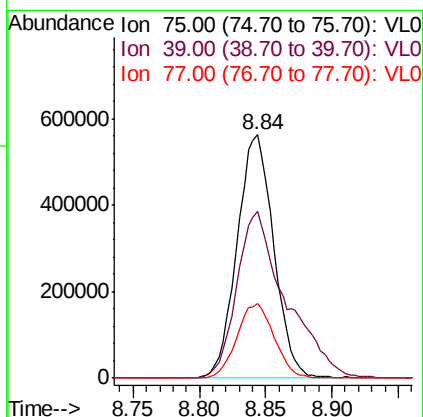
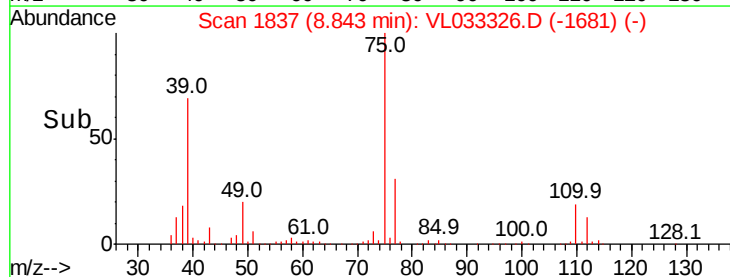
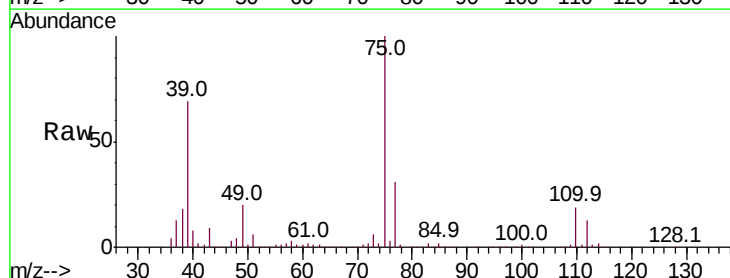
Tgt Ion: 75 Resp: 1080794

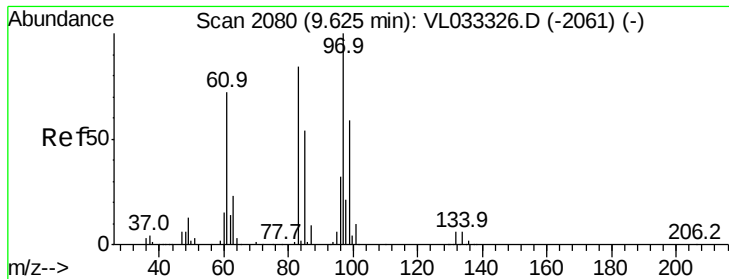
Ion Ratio Lower Upper

75 100

39 68.8 55.0 82.6

77 30.6 24.5 36.7





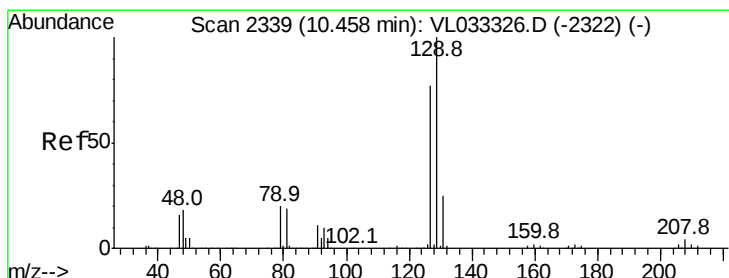
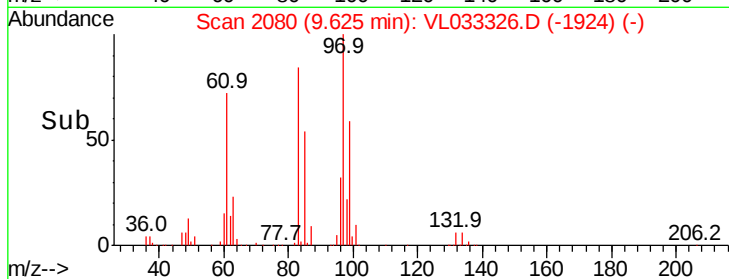
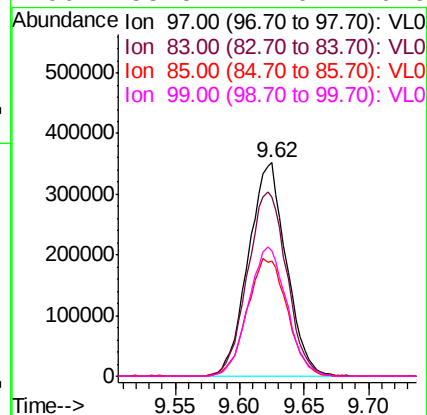
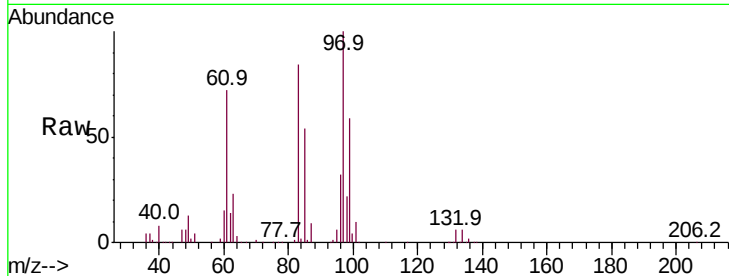
#47
 1,1,2-Trichloroethane
 Concen: 9.932 ppbv
 RT: 9.62 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VL033326.D
 Acq: 15 Mar 2019 10:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	97	Resp	723759
Ion	Ratio	Lower	Upper
97	100		
83	84.2	67.4	101.0
85	53.7	43.0	64.4
99	58.8	47.0	70.6

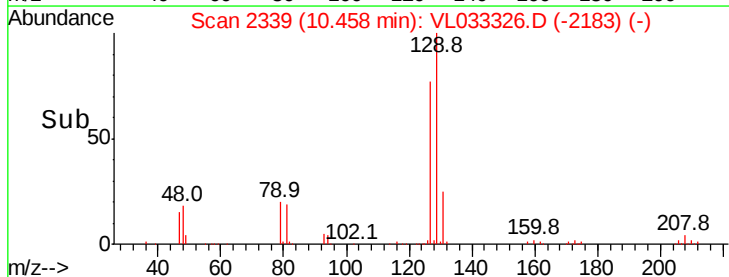
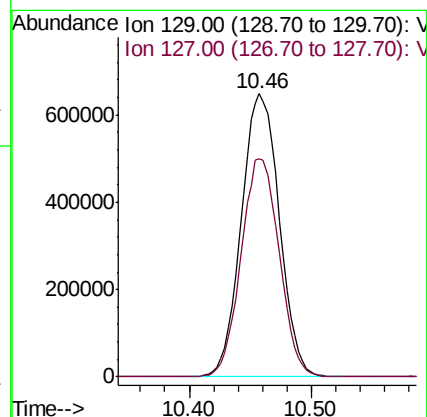
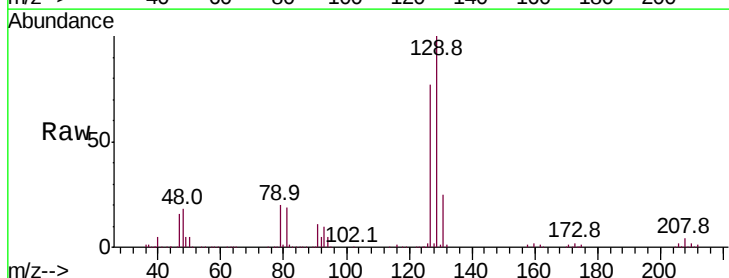
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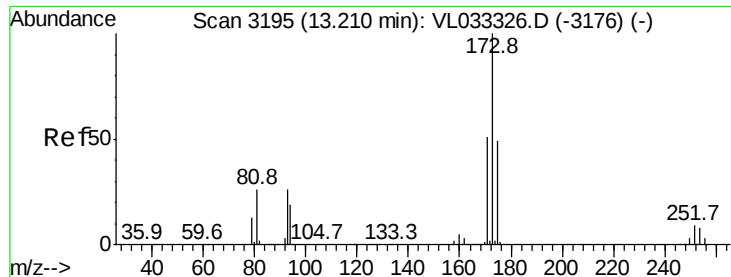
MMDadoda
 3/19/2019 10:02:14 AM



#48
 Dibromochloromethane
 Concen: 11.184 ppbv
 RT: 10.46 min Scan# 2339
 Delta R.T. 0.00 min
 Lab File: VL033326.D
 Acq: 15 Mar 2019 10:25

Tgt Ion	129	Resp	1392747
Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.9	116.6





#49

Bromoform

Concen: 11.099 ppbv

RT: 13.21 min Scan# 3195

Delta R.T. 0.00 min

Lab File: VL033326.D

Acq: 15 Mar 2019 10:25

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:173 Resp: 1251040

Ion Ratio Lower Upper

173 100

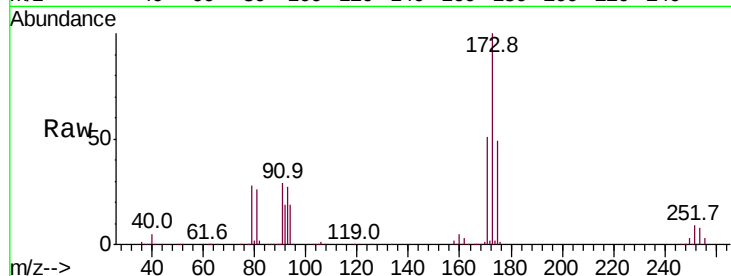
175 48.7 39.0 58.6

171 52.1 41.7 62.5

Manual Integrations
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MMDadoda

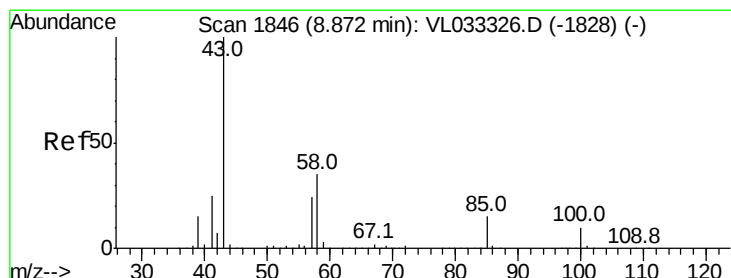
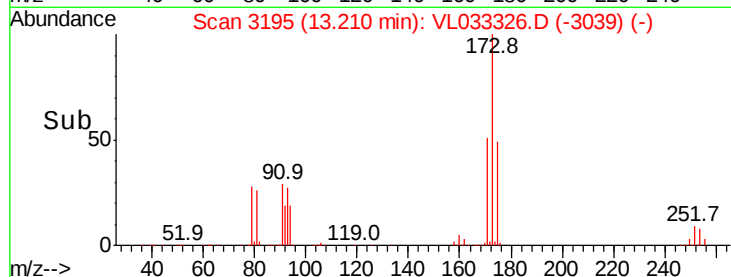
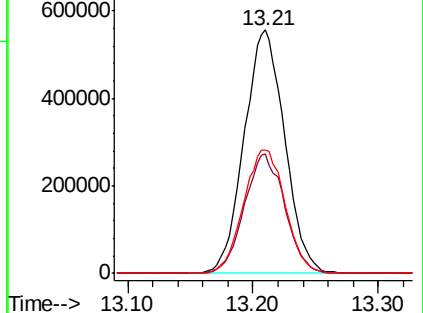
3/19/2019 10:02:14 AM



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.628 ppbv

RT: 8.87 min Scan# 1846

Delta R.T. 0.00 min

Lab File: VL033326.D

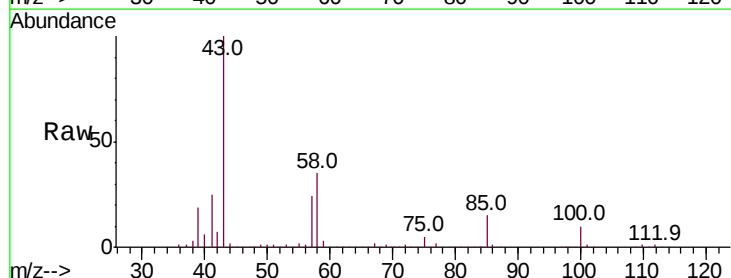
Acq: 15 Mar 2019 10:25

Tgt Ion: 43 Resp: 1778884

Ion Ratio Lower Upper

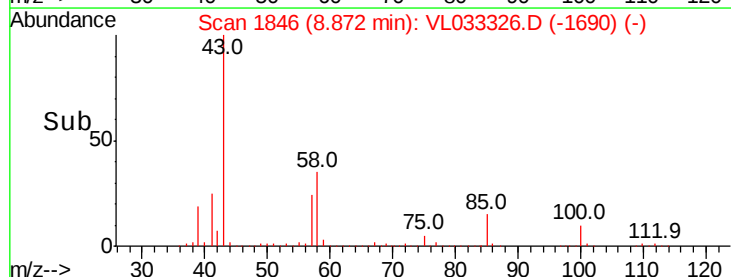
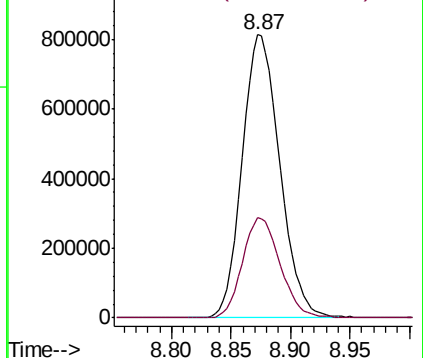
43 100

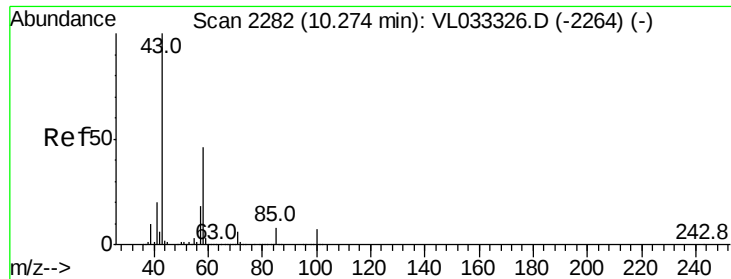
58 35.5 28.4 42.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





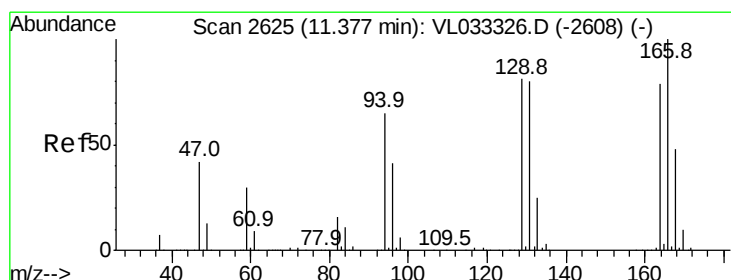
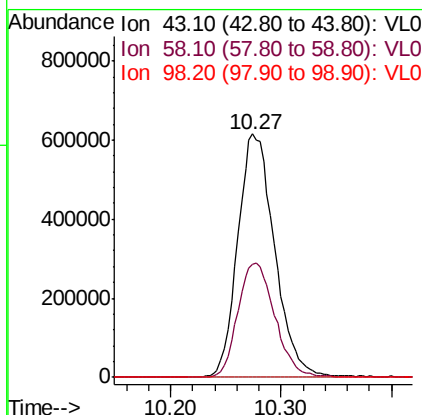
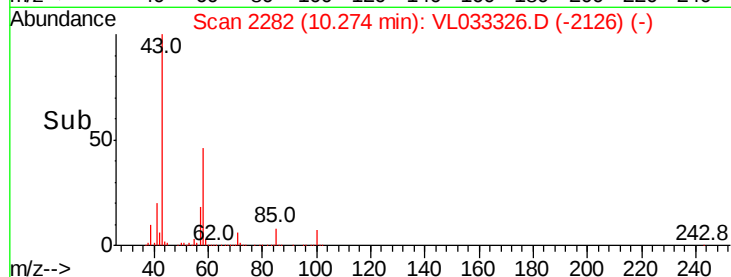
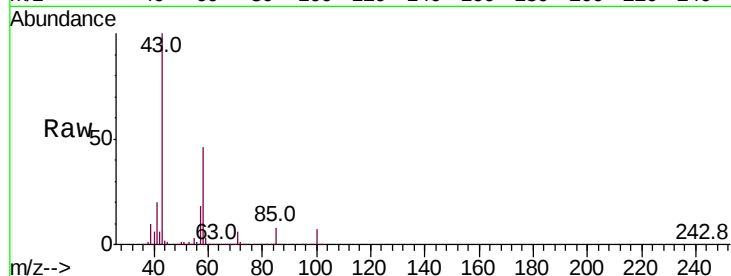
#51
2-Hexanone
Concen: 9.671 ppbv
RT: 10.27 min Scan# 2282
Delta R.T. 0.00 min
Lab File: VL033326.D
Acq: 15 Mar 2019 10:25

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 43 Resp: 1423259
Ion Ratio Lower Upper
43 100
58 47.5 38.0 57.0
98 0.2 0.1 0.1#

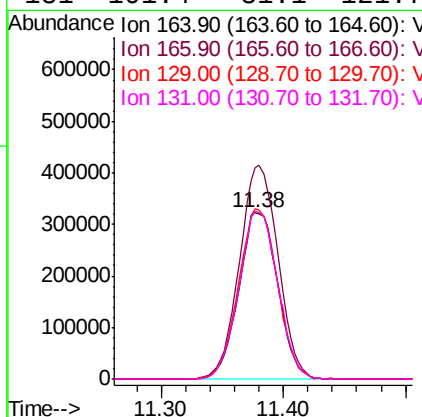
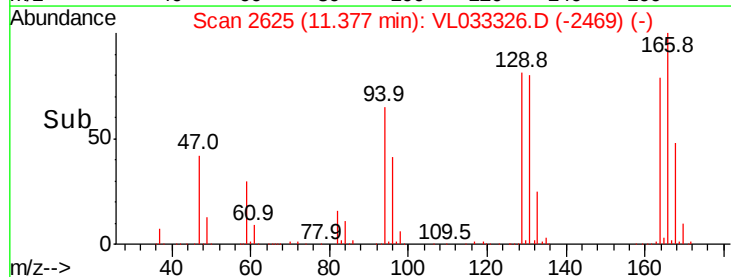
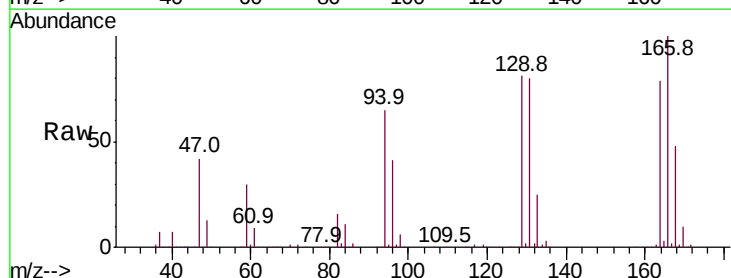
Manual Integrations
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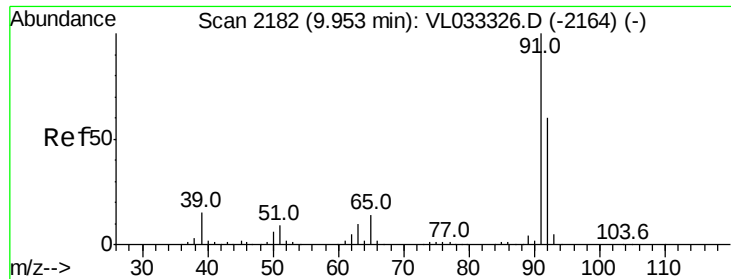
MMDadoda
3/19/2019 10:02:14 AM



#52
Tetrachloroethene
Concen: 9.852 ppbv
RT: 11.38 min Scan# 2625
Delta R.T. 0.00 min
Lab File: VL033326.D
Acq: 15 Mar 2019 10:25

Tgt Ion: 164 Resp: 708513
Ion Ratio Lower Upper
164 100
166 126.9 101.5 152.3
129 102.7 82.2 123.2
131 101.4 81.1 121.7





#53

Toluene

Concen: 10.011 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. 0.00 min

Lab File: VL033326.D

Acq: 15 Mar 2019 10:25

Tot Ion: 91 Resp: 2033065

Ion Ratio Lower Upper

91 100

92 59.2 47.4 71.0

Instrument :

MSVOA_L

ClientSampleId :

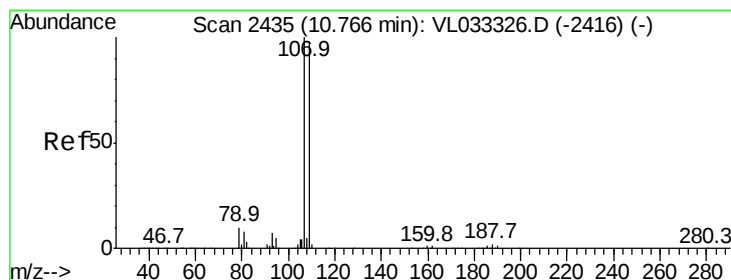
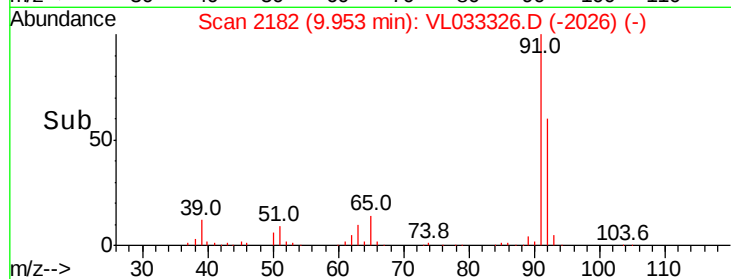
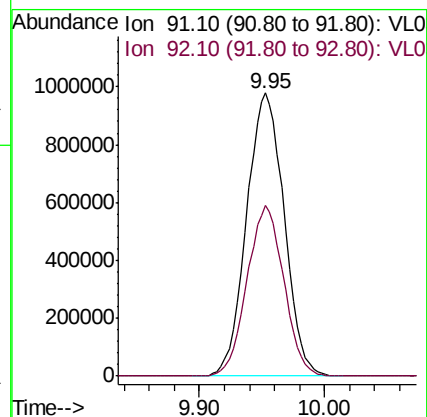
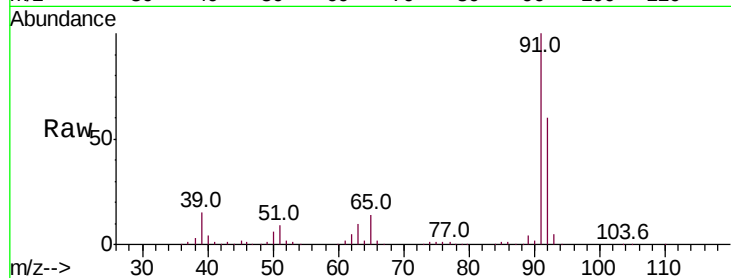
VSTDICCC010

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#54

1,2-Dibromoethane

Concen: 10.638 ppbv

RT: 10.77 min Scan# 2435

Delta R.T. 0.00 min

Lab File: VL033326.D

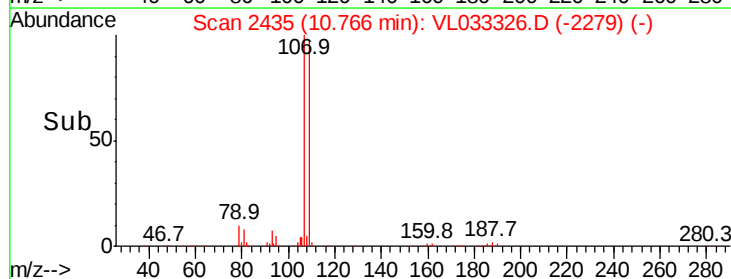
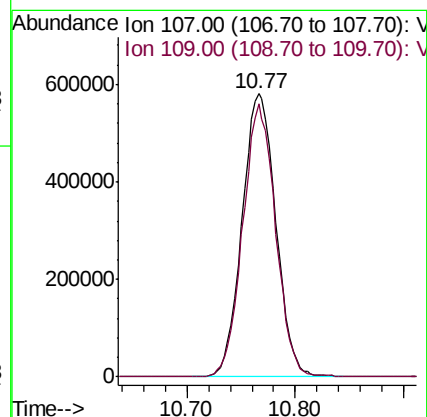
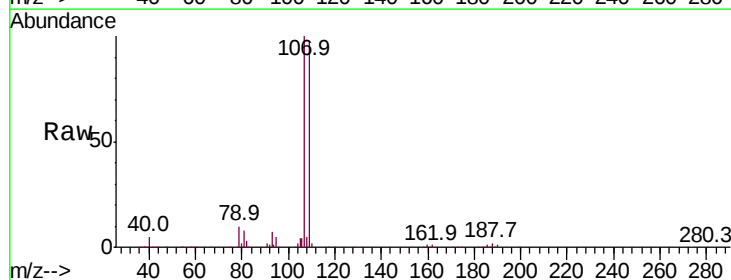
Acq: 15 Mar 2019 10:25

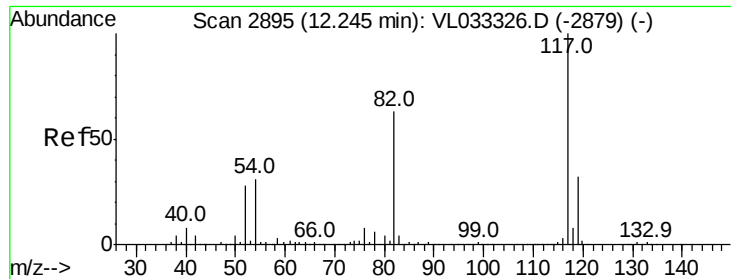
Tgt Ion:107 Resp: 1263525

Ion Ratio Lower Upper

107 100

109 96.5 77.2 115.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.25 min Scan# 2895

Delta R.T. 0.00 min

Lab File: VL033326.D

Acq: 15 Mar 2019 10:25

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:117 Resp: 2356838

Ion Ratio Lower Upper

117 100

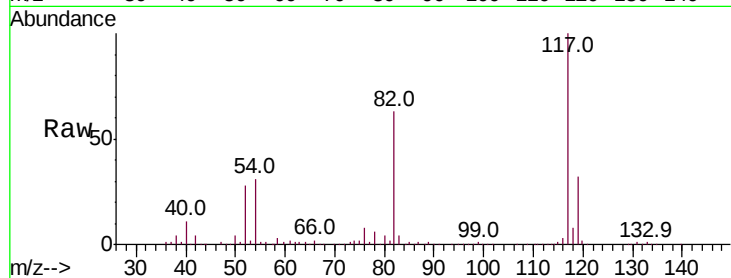
82 63.2 53.4 80.2

119 34.1 27.3 40.9

Manual Integrations
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MMDadoda

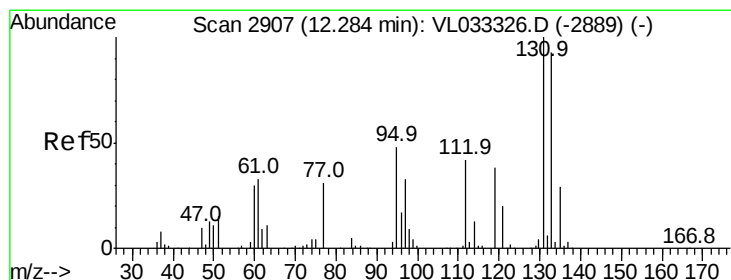
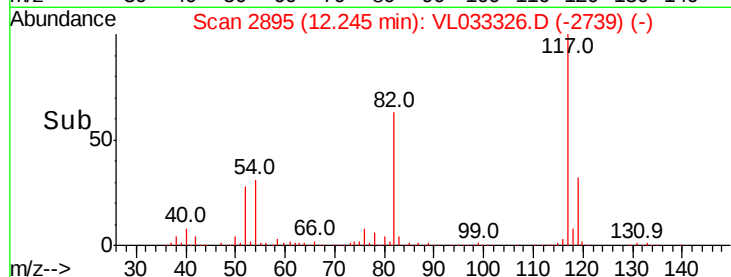
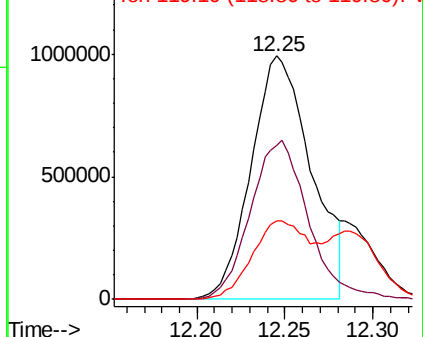
3/19/2019 10:02:14 AM



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 9.280 ppbv

RT: 12.28 min Scan# 2907

Delta R.T. 0.00 min

Lab File: VL033326.D

Acq: 15 Mar 2019 10:25

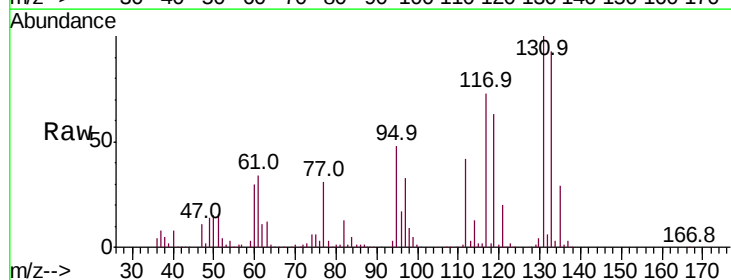
Tgt Ion:131 Resp: 981479

Ion Ratio Lower Upper

131 100

133 95.9 76.7 115.1

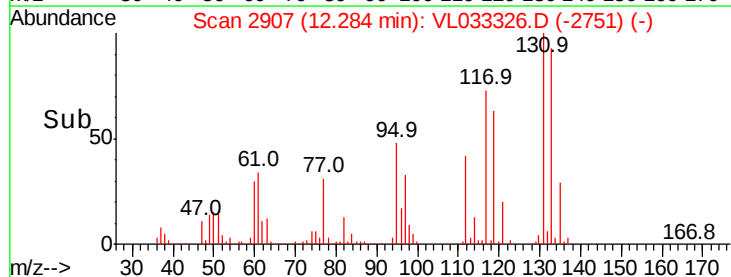
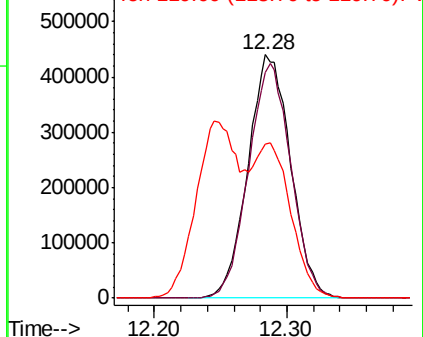
119 50.4 40.3 60.5

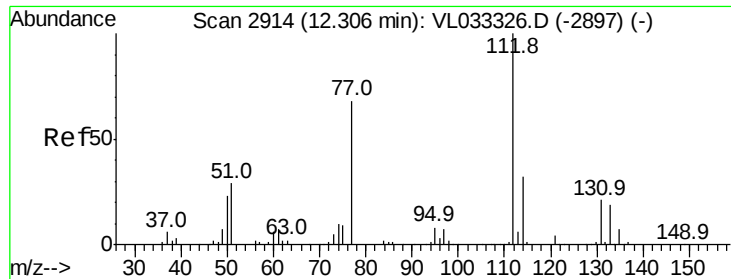


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





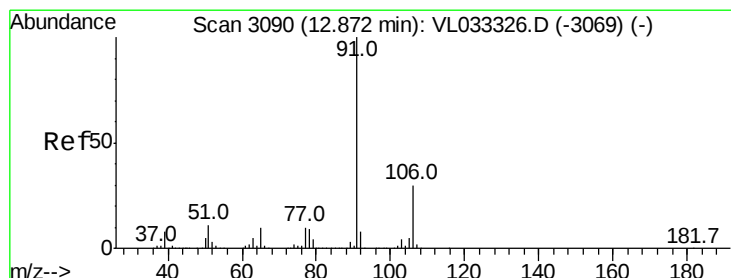
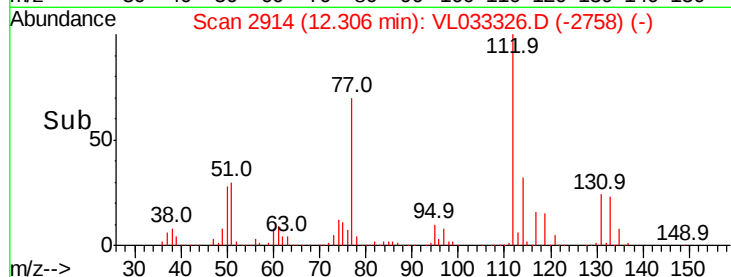
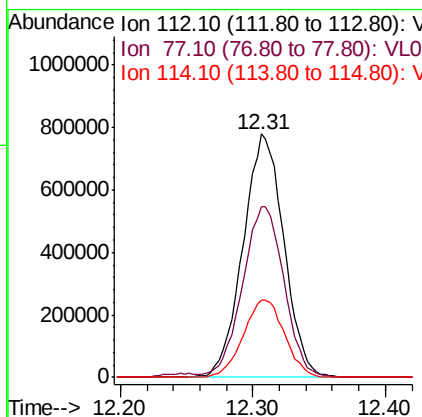
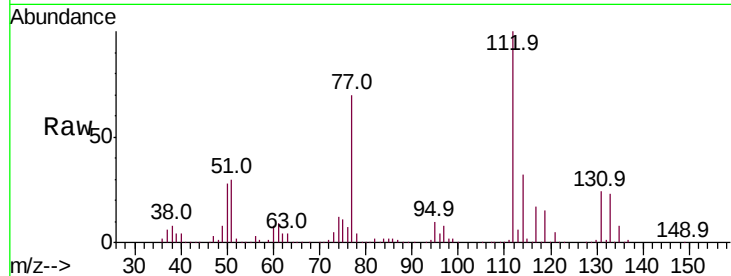
#57
Chlorobenzene
Concen: 8.894 ppbv
RT: 12.31 min Scan# 2914
Delta R.T. 0.00 min
Lab File: VL033326.D
Acq: 15 Mar 2019 10:25

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion:112 Resp: 1664880
Ion Ratio Lower Upper
112 100
77 69.7 55.8 83.6
114 31.8 28.6 35.0

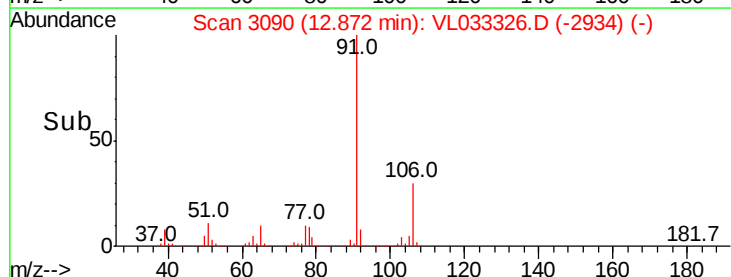
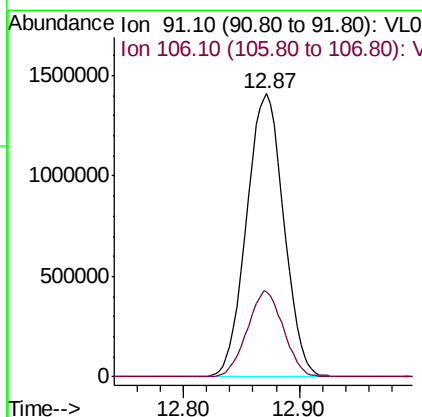
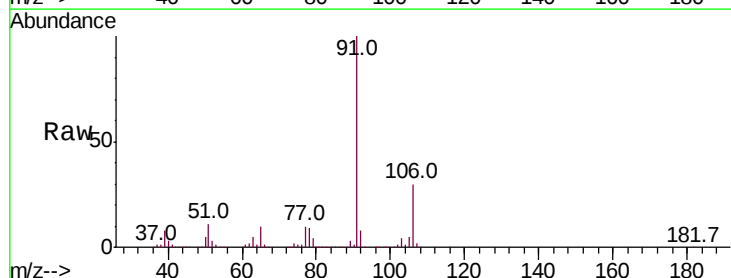
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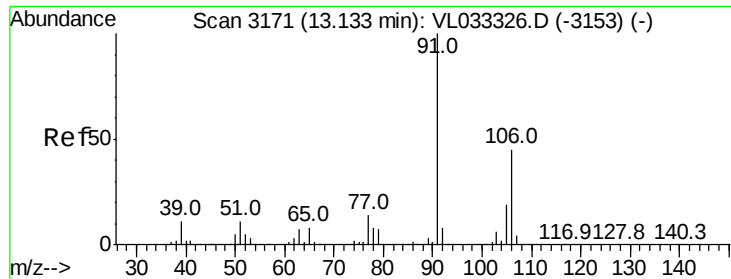
MMDadoda
3/19/2019 10:02:14 AM



#58
Ethyl Benzene
Concen: 9.465 ppbv
RT: 12.87 min Scan# 3090
Delta R.T. 0.00 min
Lab File: VL033326.D
Acq: 15 Mar 2019 10:25

Tgt Ion: 91 Resp: 3156238
Ion Ratio Lower Upper
91 100
106 30.2 24.2 36.2





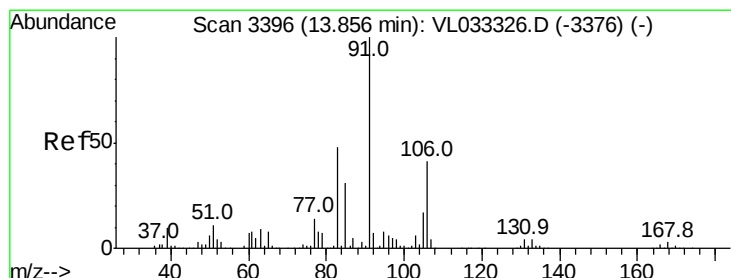
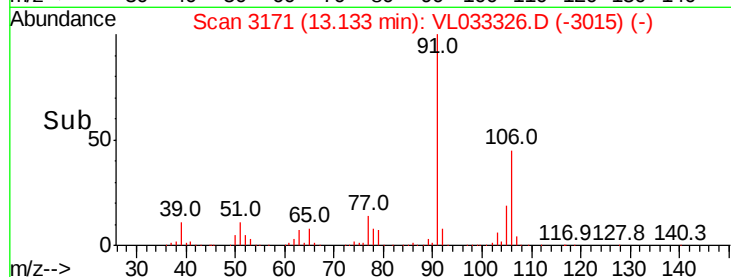
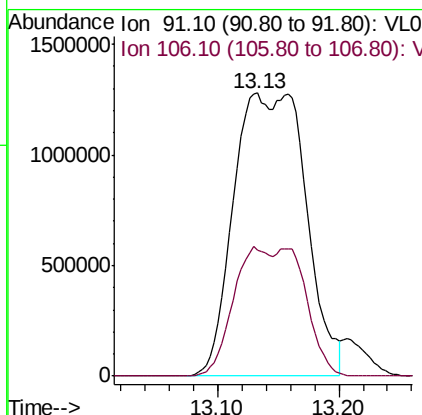
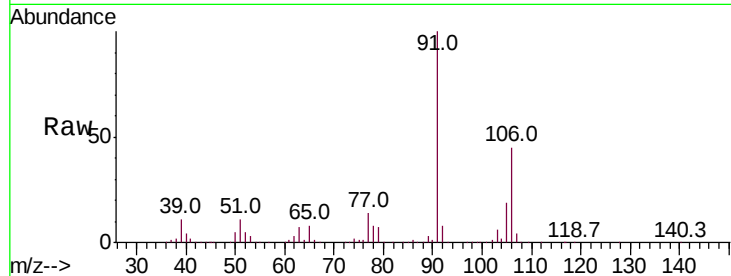
#59
m/p-Xylene
Concen: 18.518 ppbv m
RT: 13.13 min Scan# 3171
Delta R.T. 0.00 min
Lab File: VL033326.D
Acq: 15 Mar 2019 10:25

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 91 Resp: 5260500
Ion Ratio Lower Upper
91 100
106 44.3 0.0 0.0#

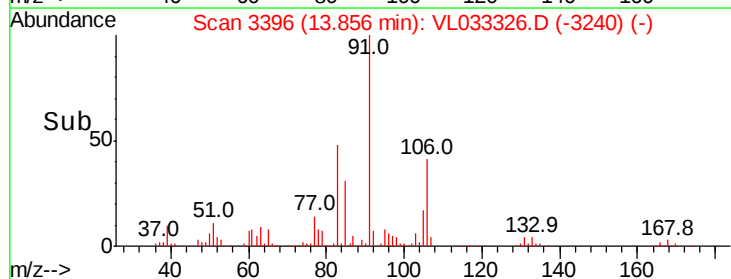
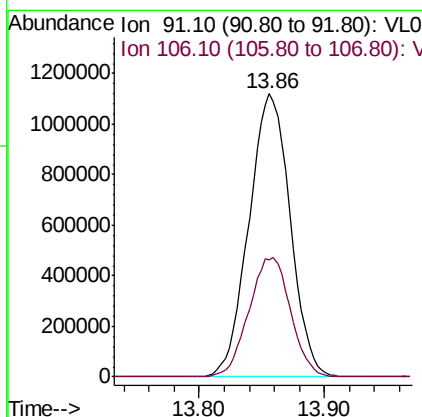
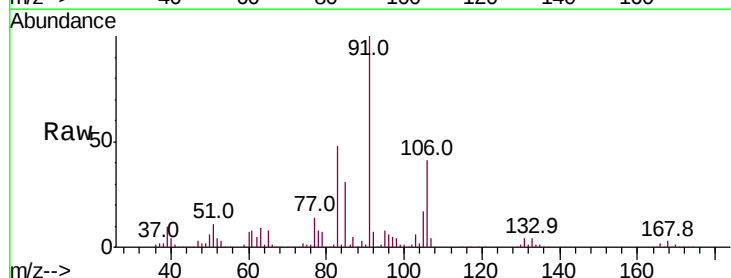
Manual Integrations
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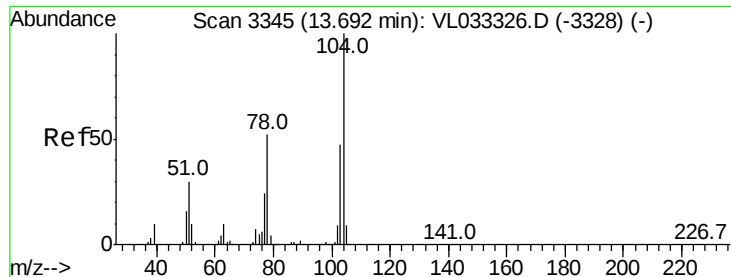
MMDadoda
3/19/2019 10:02:14 AM



#60
o-Xylene
Concen: 9.218 ppbv
RT: 13.86 min Scan# 3396
Delta R.T. 0.00 min
Lab File: VL033326.D
Acq: 15 Mar 2019 10:25

Tgt Ion: 91 Resp: 2564716
Ion Ratio Lower Upper
91 100
106 42.6 21.3 63.9





#61

Stvrene

Concen: 9.901 ppbv

RT: 13.69 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VL033326.D

Acq: 15 Mar 2019 10:25

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:104 Resp: 1924195

Ion Ratio Lower Upper

104 100

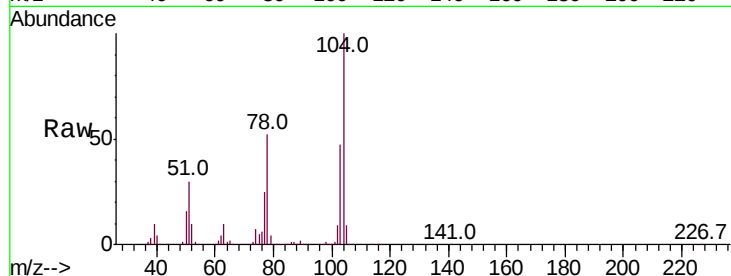
78 53.4 42.7 64.1

103 47.4 38.0 57.0

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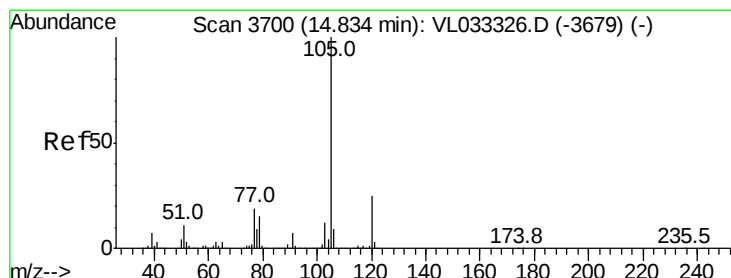
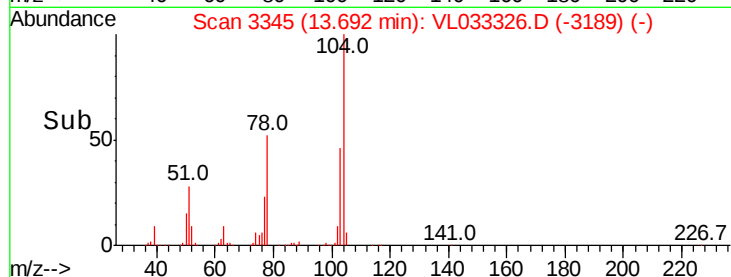
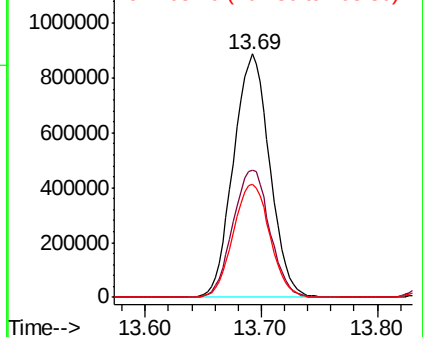
3/19/2019 10:02:14 AM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.361 ppbv

RT: 14.83 min Scan# 3700

Delta R.T. 0.00 min

Lab File: VL033326.D

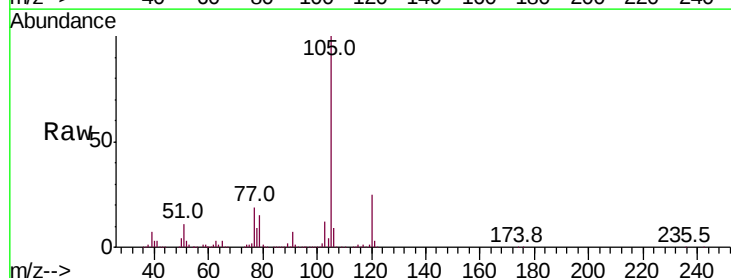
Acq: 15 Mar 2019 10:25

Tgt Ion:105 Resp: 3599610

Ion Ratio Lower Upper

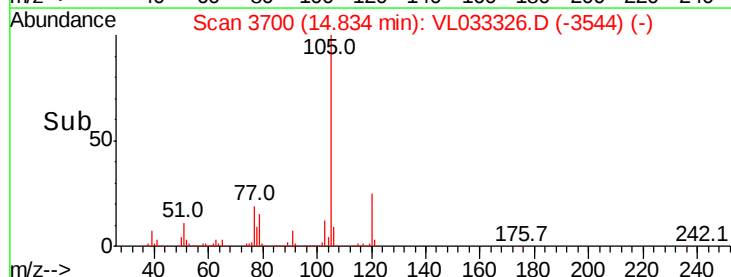
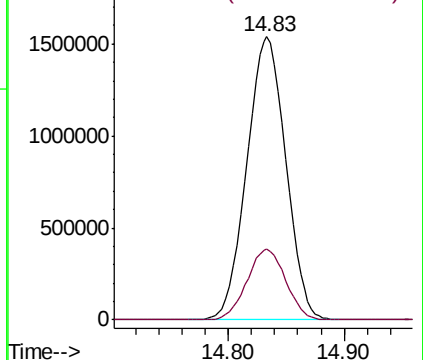
105 100

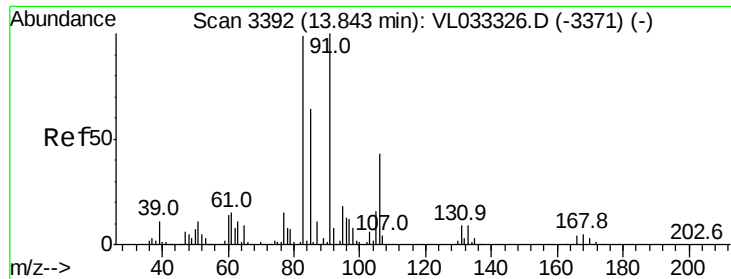
120 24.9 19.9 29.9



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





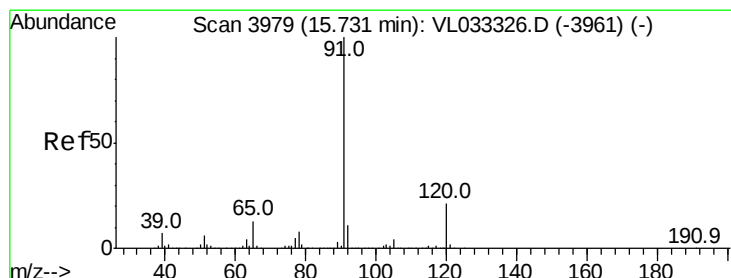
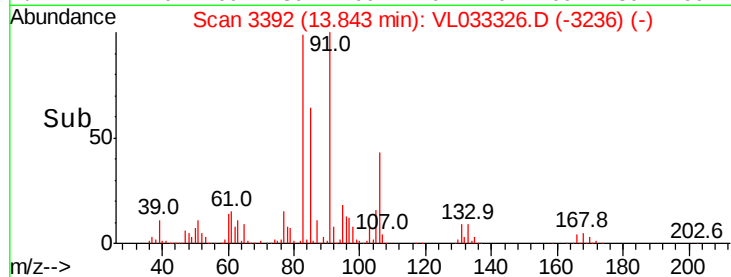
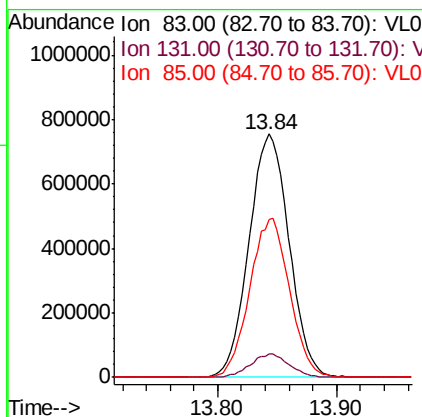
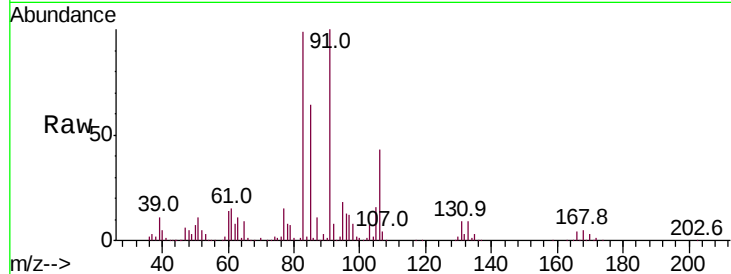
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.377 ppbv
 RT: 13.84 min Scan# 3392
 Delta R.T. 0.00 min
 Lab File: VL033326.D
 Acq: 15 Mar 2019 10:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	83	Resp	1762437
Ion Ratio	100	Lower	Upper
83	100		
131	9.3	4.7	14.0
85	64.9	32.5	97.4

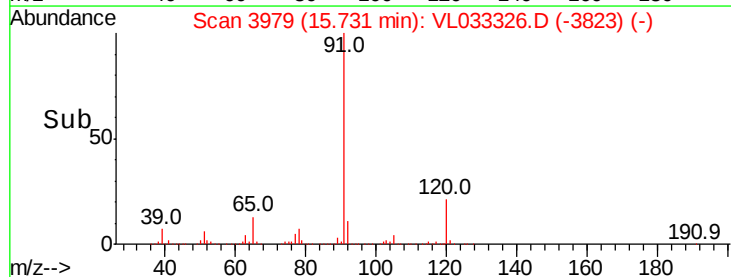
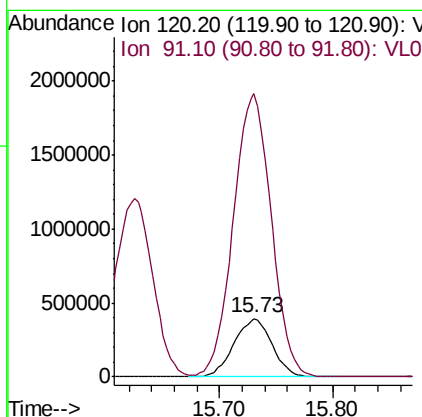
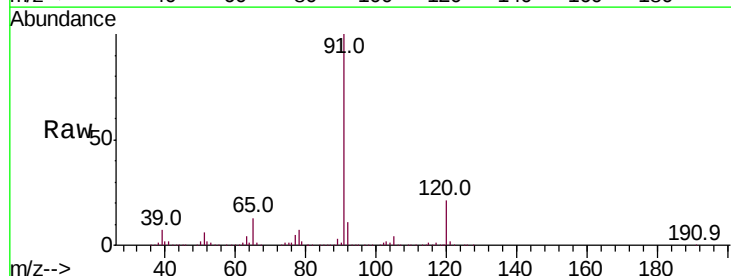
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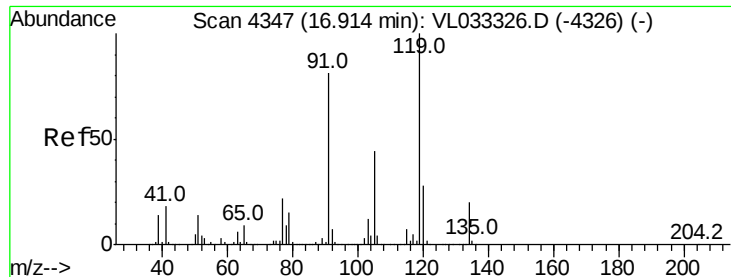
MMDadoda
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#64
 n-propylbenzene
 Concen: 9.457 ppbv
 RT: 15.73 min Scan# 3979
 Delta R.T. 0.00 min
 Lab File: VL033326.D
 Acq: 15 Mar 2019 10:25

Tgt Ion	120	Resp	917950
Ion Ratio	100	Lower	Upper
120	100		
91	487.2	389.8	584.6





#65

tert-Butylbenzene

Concen: 9.112 ppbv

RT: 16.91 min Scan# 4347

Delta R.T. 0.00 min

Lab File: VL033326.D

Acq: 15 Mar 2019 10:25

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:119 Resp: 3229047

Ion Ratio Lower Upper

119 100

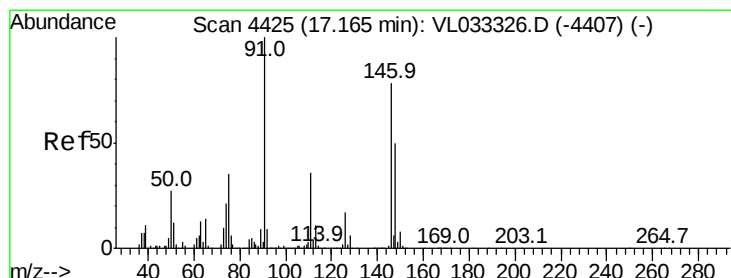
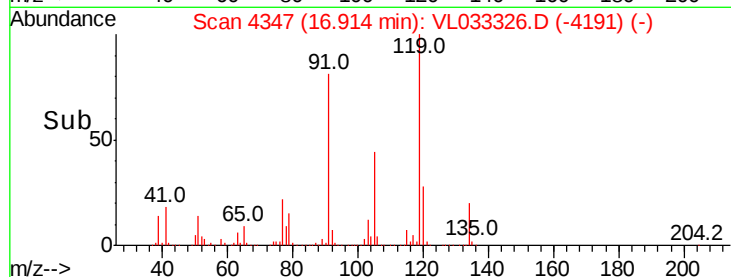
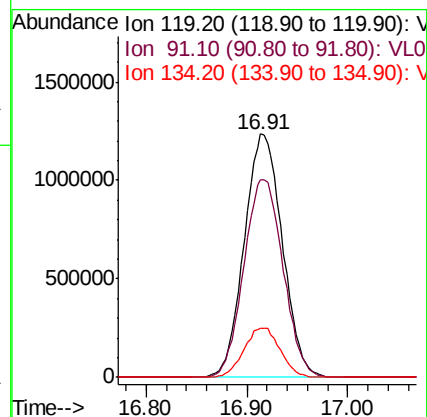
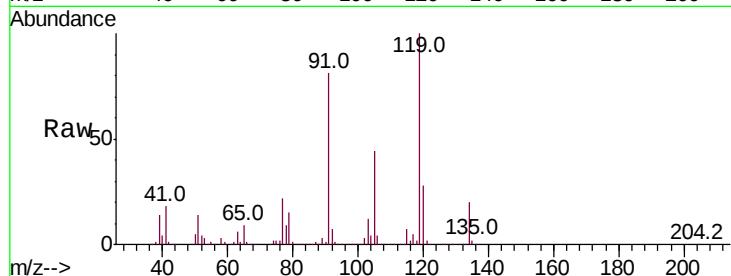
91 84.0 67.2 100.8

134 19.3 15.4 23.2

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#66

Benzyl Chloride

Concen: 12.287 ppbv

RT: 17.16 min Scan# 4425

Delta R.T. 0.00 min

Lab File: VL033326.D

Acq: 15 Mar 2019 10:25

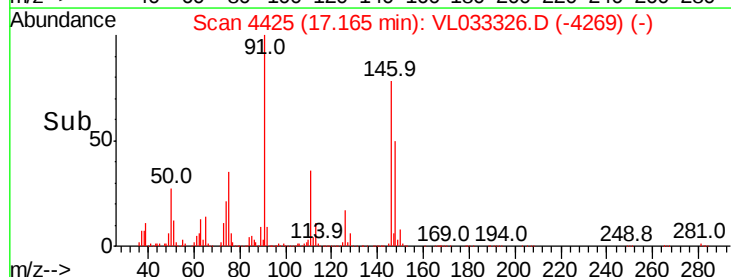
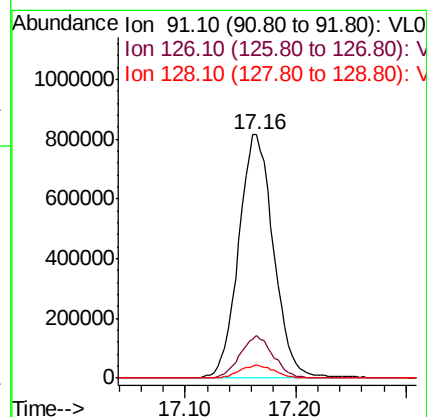
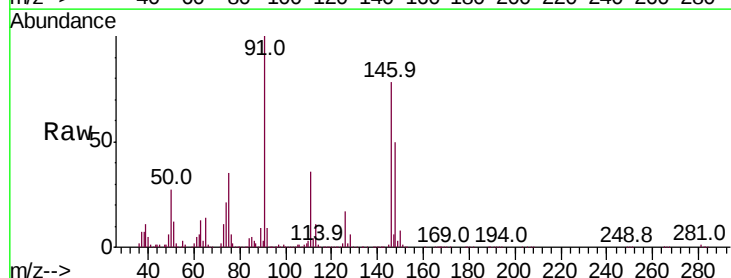
Tgt Ion: 91 Resp: 1776490

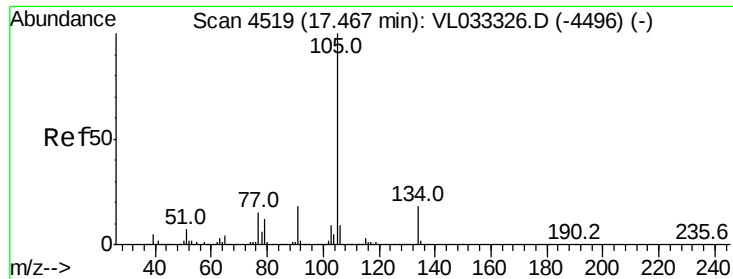
Ion Ratio Lower Upper

91 100

126 16.5 13.2 19.8

128 5.3 4.2 6.4





#67

sec-Butylbenzene

Concen: 9.128 ppbv

RT: 17.47 min Scan# 4519

Delta R.T. 0.00 min

Lab File: VL033326.D

Acq: 15 Mar 2019 10:25

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 105 Resp: 4622545

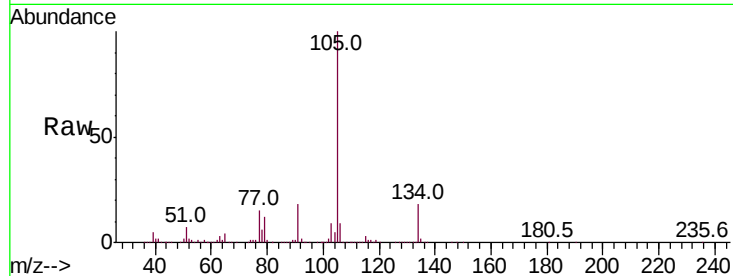
Ion Ratio Lower Upper

105 100

134 17.8 14.2 21.4

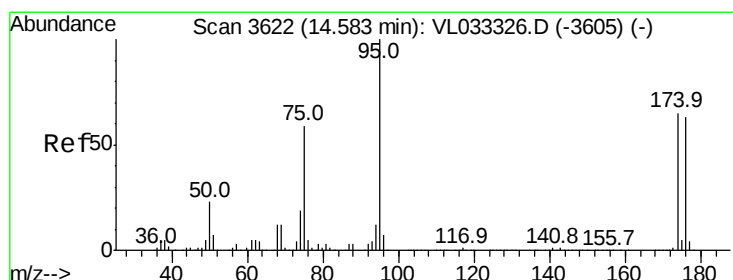
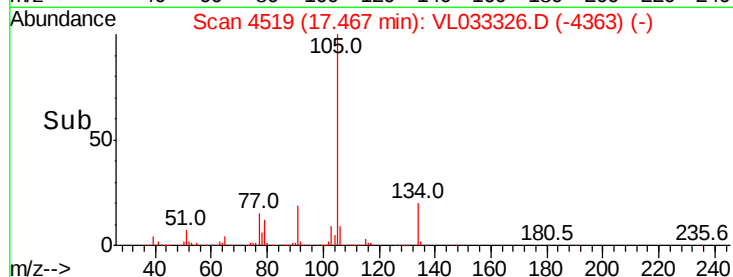
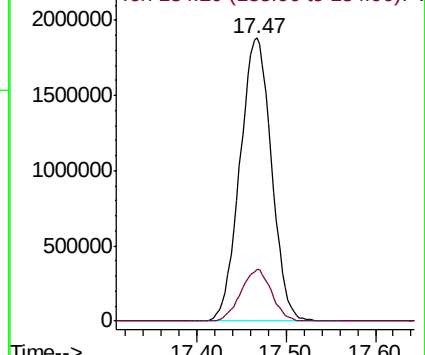
Manual Integrations
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.287 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. 0.00 min

Lab File: VL033326.D

Acq: 15 Mar 2019 10:25

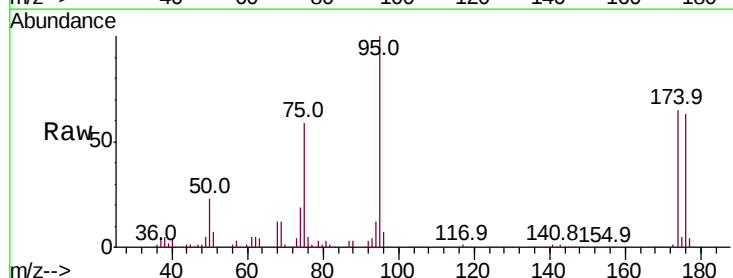
Tgt Ion: 95 Resp: 1663558

Ion Ratio Lower Upper

95 100

174 64.4 51.5 77.3

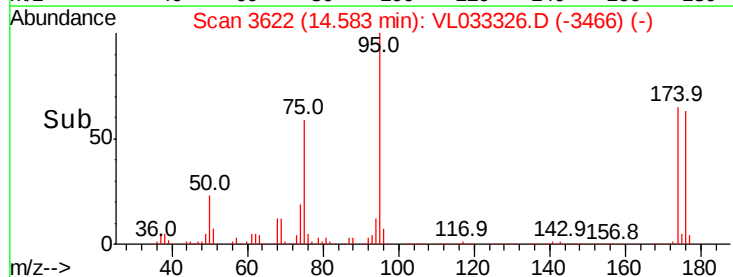
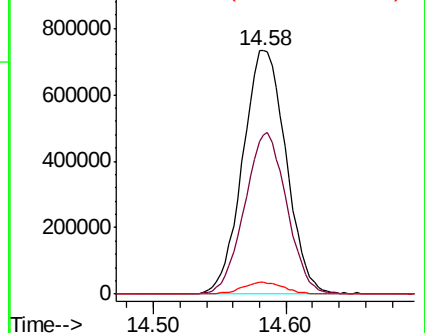
175 4.7 3.8 5.6

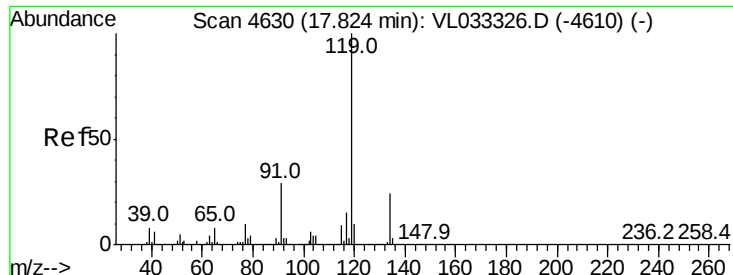


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





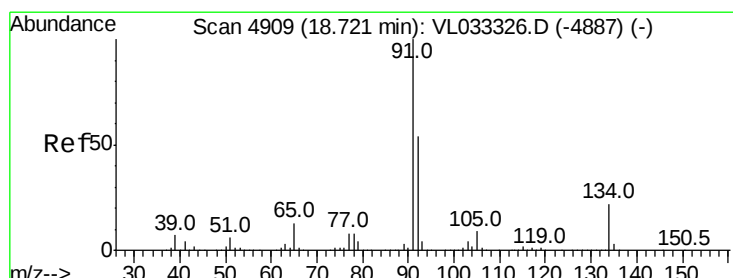
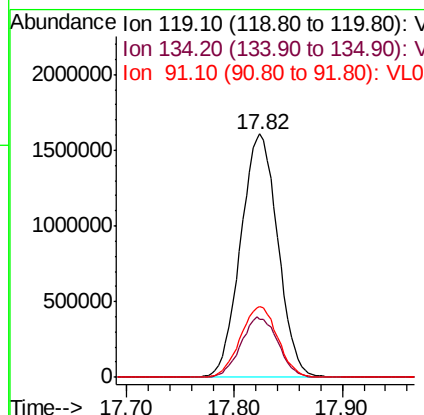
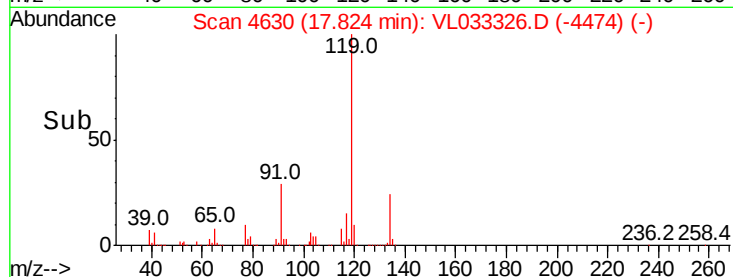
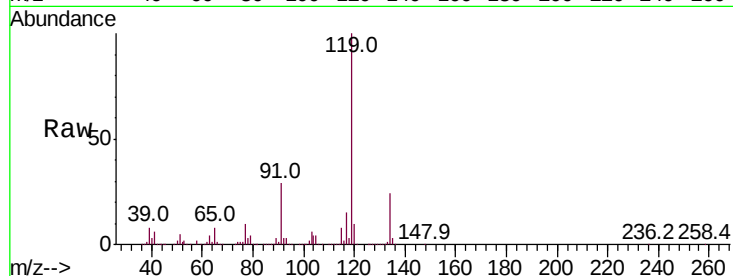
#69
 p-Isopropyltoluene
 Concen: 9.311 ppbv
 RT: 17.82 min Scan# 4630
 Delta R.T. 0.00 min
 Lab File: VL033326.D
 Acq: 15 Mar 2019 10:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 119 Resp: 3837860
 Ion Ratio Lower Upper
 119 100
 134 24.7 19.8 29.6
 91 29.3 23.4 35.2

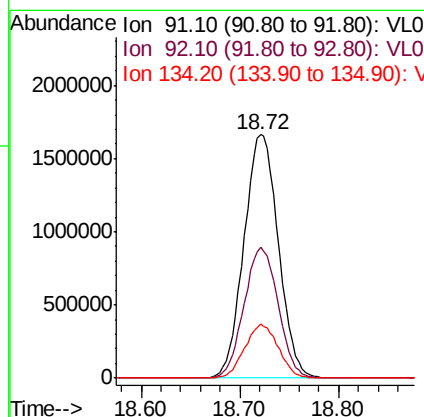
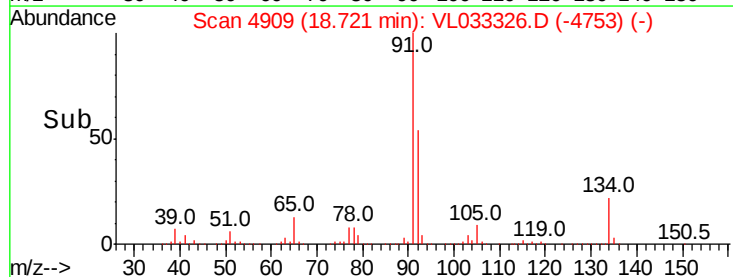
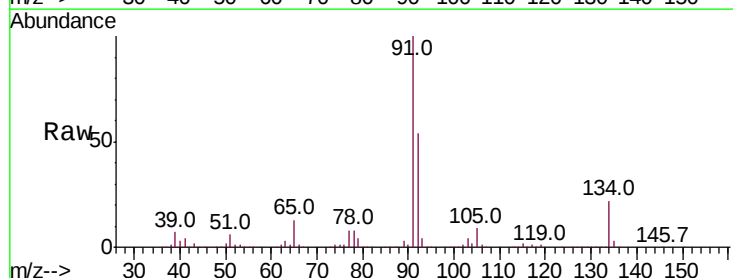
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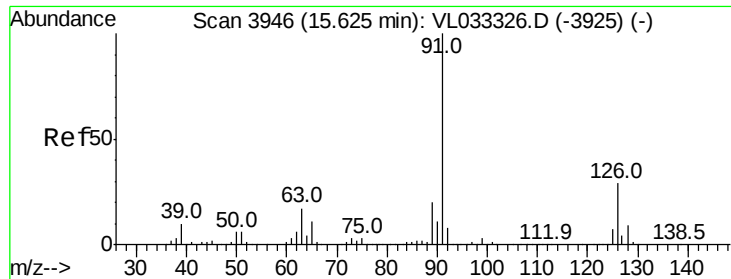
MMDadoda
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#70
 n-Butylbenzene
 Concen: 9.099 ppbv
 RT: 18.72 min Scan# 4909
 Delta R.T. 0.00 min
 Lab File: VL033326.D
 Acq: 15 Mar 2019 10:25

Tgt Ion: 91 Resp: 4005884
 Ion Ratio Lower Upper
 91 100
 92 53.5 42.8 64.2
 134 21.7 17.4 26.0





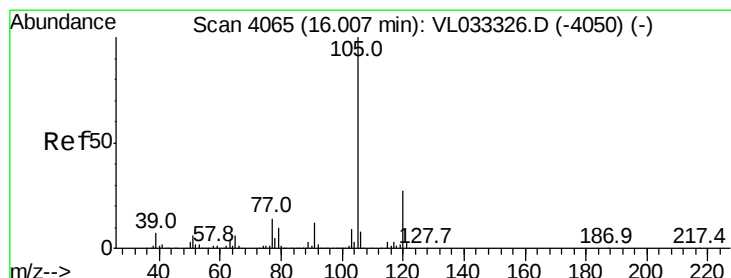
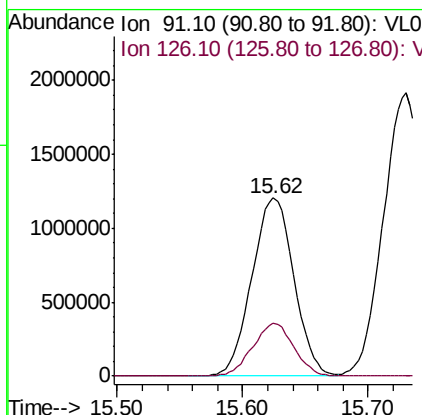
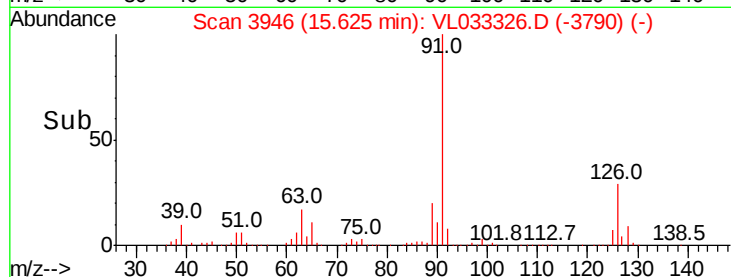
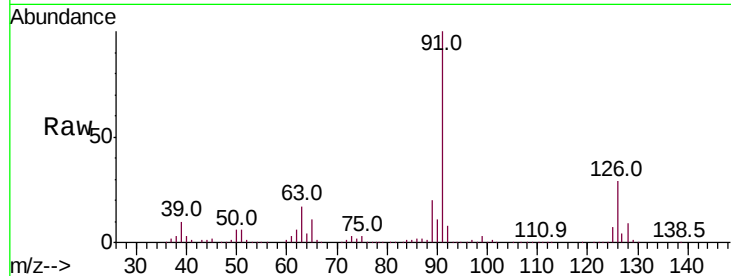
#71
2-Chlorotoluene
Concen: 9.141 ppbv
RT: 15.62 min Scan# 3946
Delta R.T. 0.00 min
Lab File: VL033326.D
Acq: 15 Mar 2019 10:25

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 91 Resp: 2799024
Ion Ratio Lower Upper
91 100
126 29.0 11.6 46.6

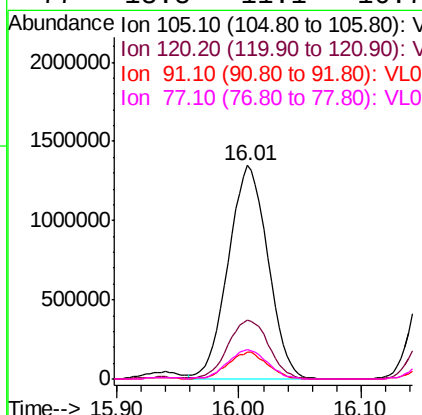
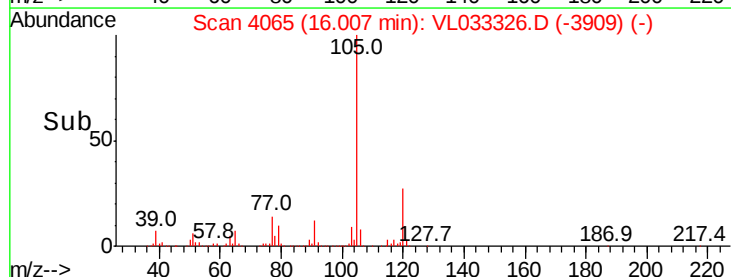
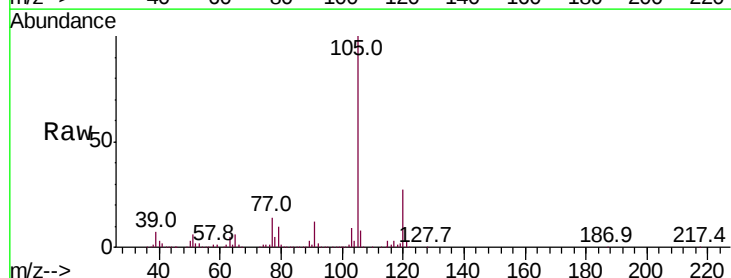
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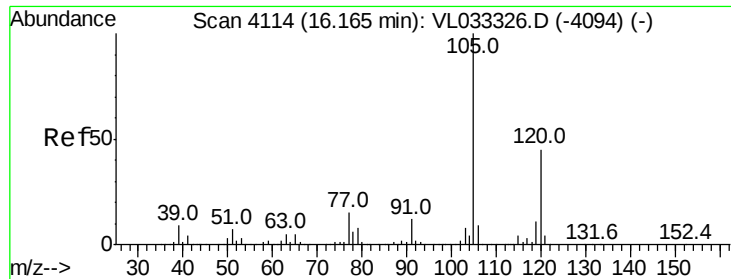
MMDadoda
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#72
4-Ethyltoluene
Concen: 9.563 ppbv
RT: 16.01 min Scan# 4065
Delta R.T. 0.00 min
Lab File: VL033326.D
Acq: 15 Mar 2019 10:25

Tgt Ion:105 Resp: 3036283
Ion Ratio Lower Upper
105 100
120 28.5 22.9 34.3
91 13.1 10.2 15.2
77 13.8 11.1 16.7





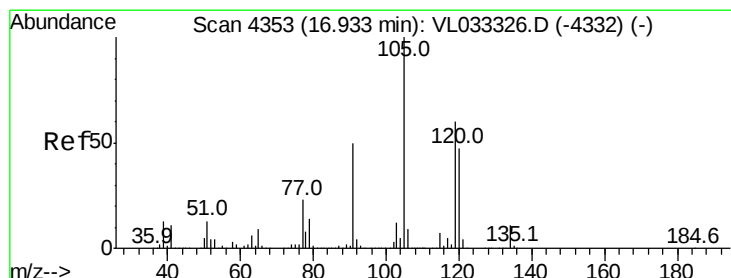
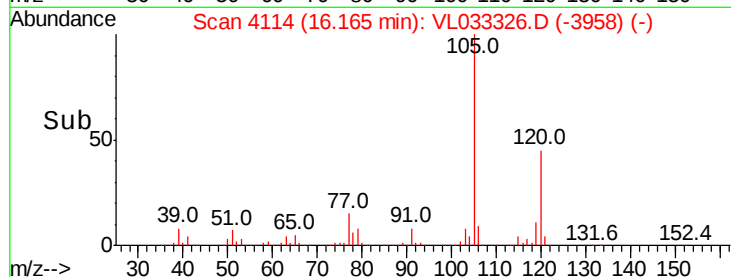
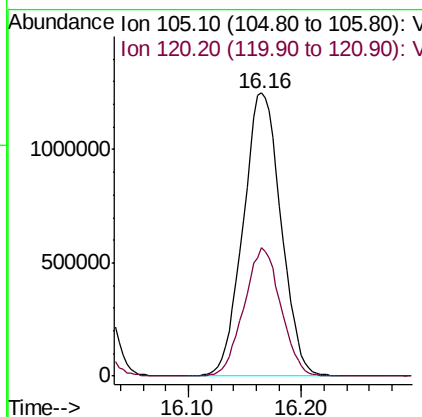
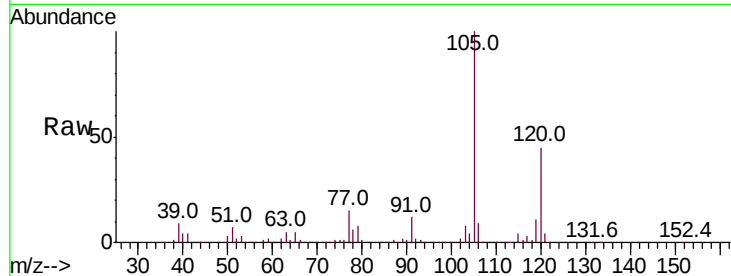
#73
 1,3,5-Trimethylbenzene
 Concen: 9.235 ppbv
 RT: 16.16 min Scan# 4114
 Delta R.T. 0.00 min
 Lab File: VL033326.D
 Acq: 15 Mar 2019 10:25

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDICCC010

Tot Ion:105 Resp: 2903418
 Ion Ratio Lower Upper
 105 100
 120 45.3 36.2 54.4

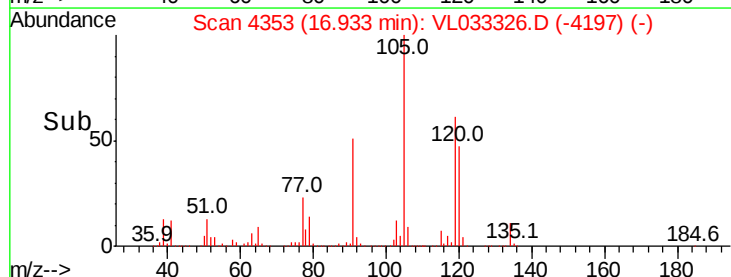
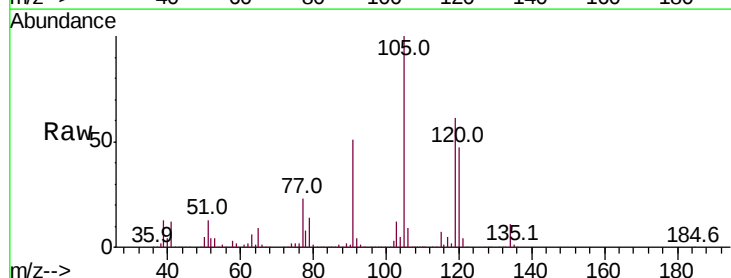
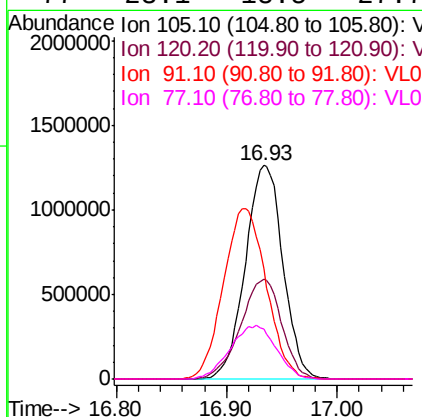
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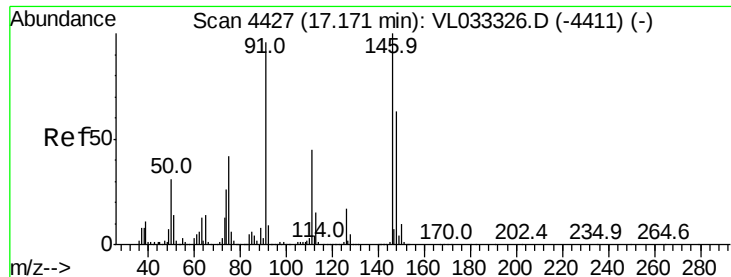
MMDadoda
 3/19/2019 10:02:14 AM



#74
 1,2,4-Trimethylbenzene
 Concen: 8.998 ppbv
 RT: 16.93 min Scan# 4353
 Delta R.T. 0.00 min
 Lab File: VL033326.D
 Acq: 15 Mar 2019 10:25

Tgt Ion:105 Resp: 2977537
 Ion Ratio Lower Upper
 105 100
 120 46.8 37.4 56.2
 91 51.2 41.0 61.4
 77 23.1 18.5 27.7





#75

1,3-Dichlorobenzene

Concen: 8.955 ppbv

RT: 17.17 min Scan# 4427

Delta R.T. 0.00 min

Lab File: VL033326.D

Acq: 15 Mar 2019 10:25

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:146 Resp: 1723618

Ion Ratio Lower Upper

146 100

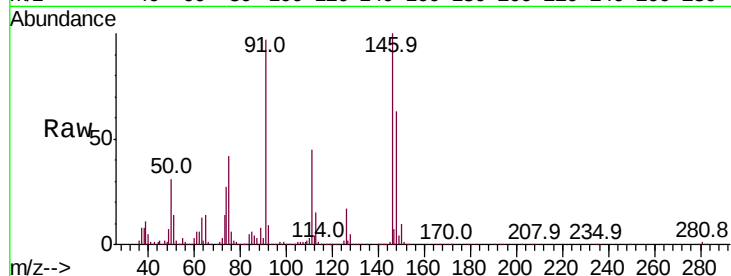
111 45.5 22.8 68.3

148 63.7 31.9 95.7

Manual Integrations
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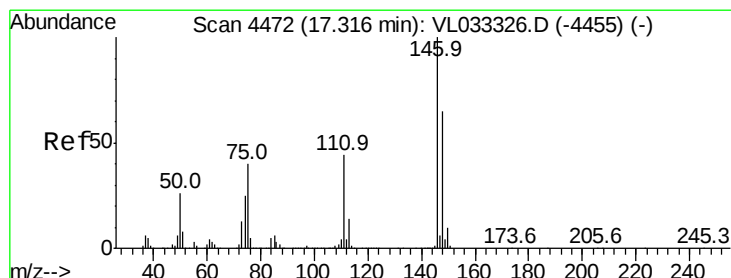
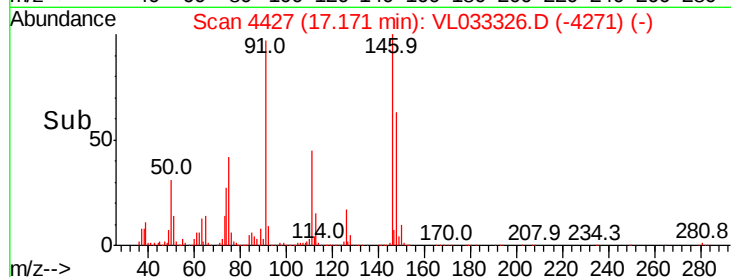
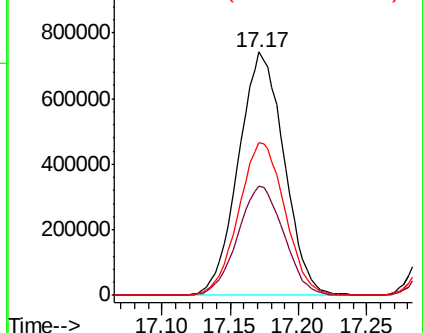
3/19/2019 10:02:14 AM



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: 9.122 ppbv

RT: 17.32 min Scan# 4472

Delta R.T. 0.00 min

Lab File: VL033326.D

Acq: 15 Mar 2019 10:25

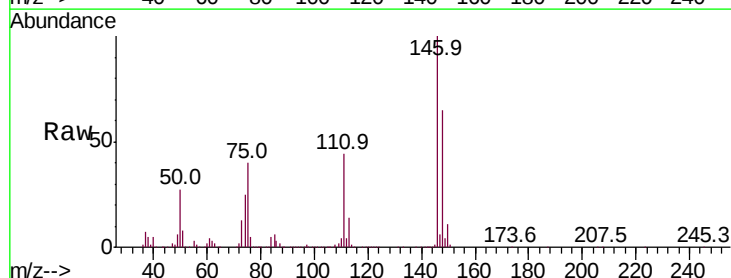
Tgt Ion:146 Resp: 1728953

Ion Ratio Lower Upper

146 100

111 43.6 21.9 65.7

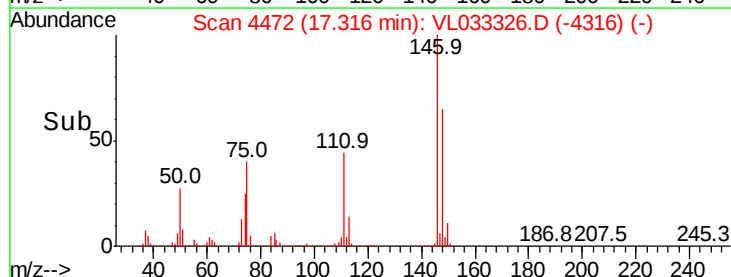
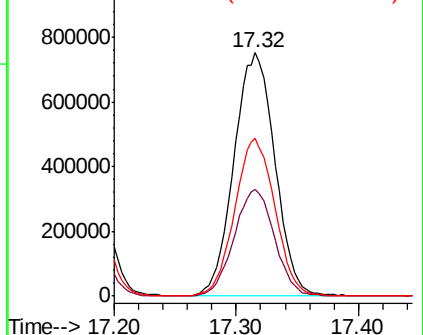
148 64.2 32.1 96.5

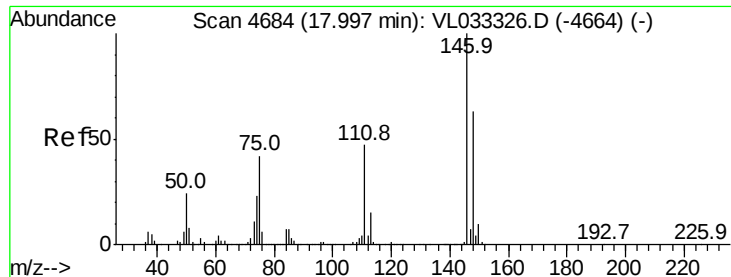


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





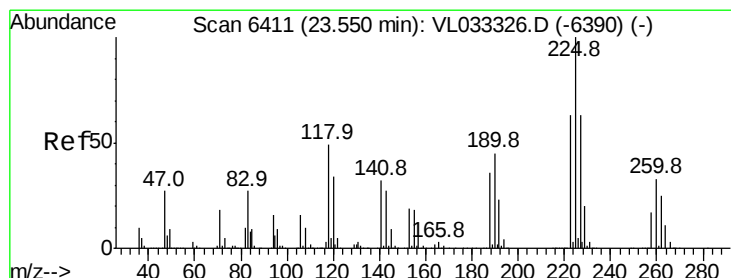
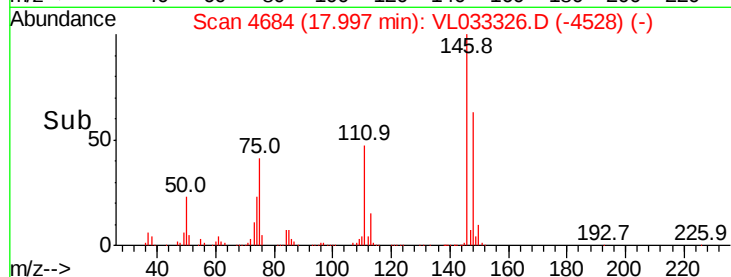
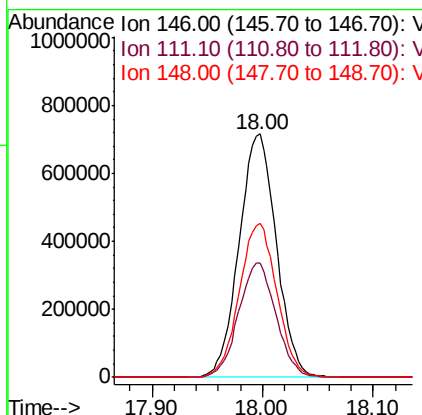
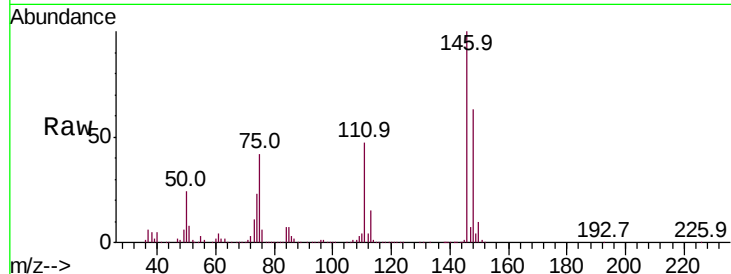
#77
 1,2-Dichlorobenzene
 Concen: 9.004 ppbv
 RT: 18.00 min Scan# 4684
 Delta R.T. 0.00 min
 Lab File: VL033326.D
 Acq: 15 Mar 2019 10:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.1	23.5	70.6
148	63.9	31.9	95.9

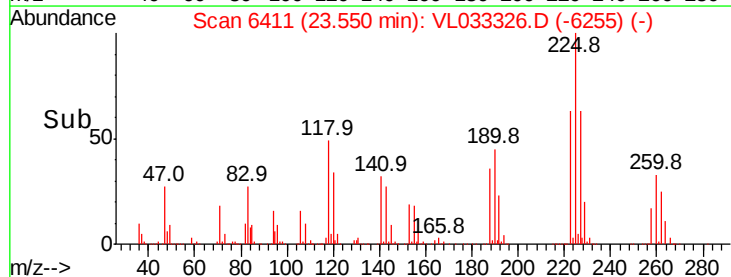
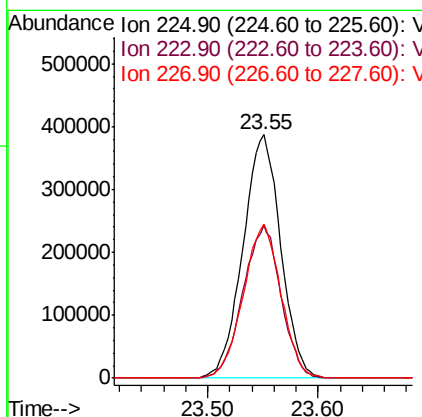
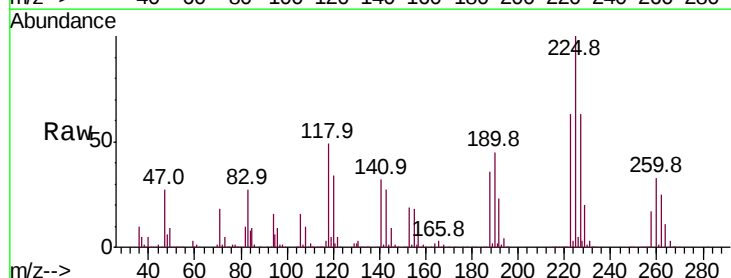
Manual Integrations
 APPROVED

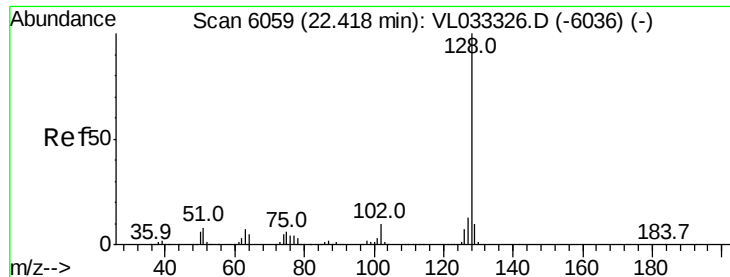
MMDadoda
 3/19/2019 10:02:14 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.185 ppbv
 RT: 23.55 min Scan# 6411
 Delta R.T. 0.00 min
 Lab File: VL033326.D
 Acq: 15 Mar 2019 10:25

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.4	75.6
227	63.1	50.5	75.7





#79

Naphthalene

Concen: 9.064 ppbv

RT: 22.42 min Scan# 6059

Delta R.T. 0.00 min

Lab File: VL033326.D

Acq: 15 Mar 2019 10:25

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:128 Resp: 2929304

Ion Ratio Lower Upper

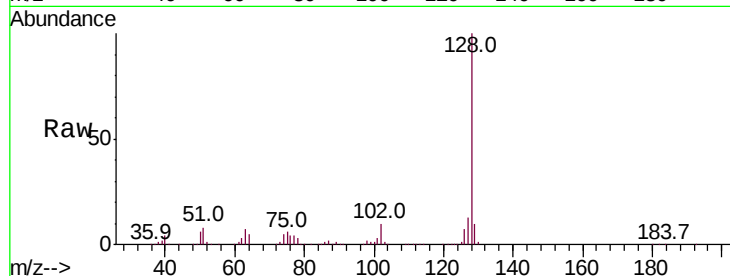
128 100

127 12.6 10.1 15.1

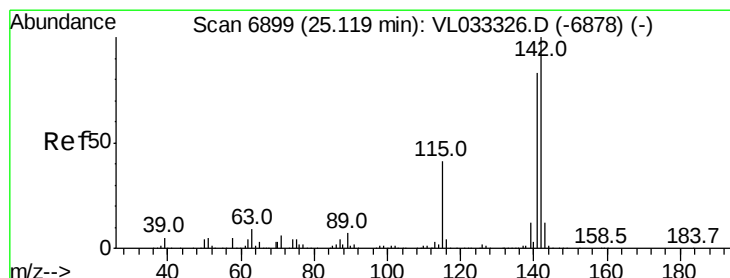
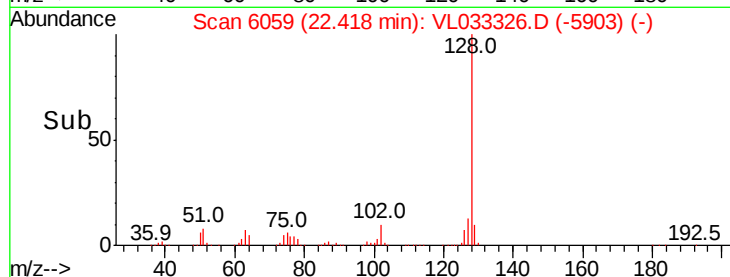
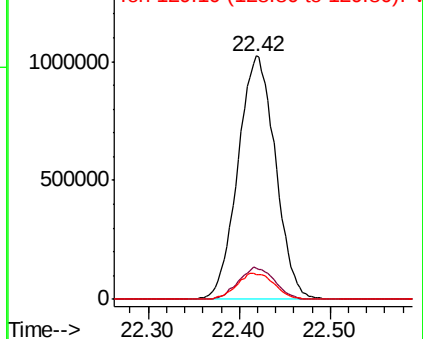
129 10.2 8.2 12.2

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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: 9.530 ppbv

RT: 25.12 min Scan# 6899

Delta R.T. 0.00 min

Lab File: VL033326.D

Acq: 15 Mar 2019 10:25

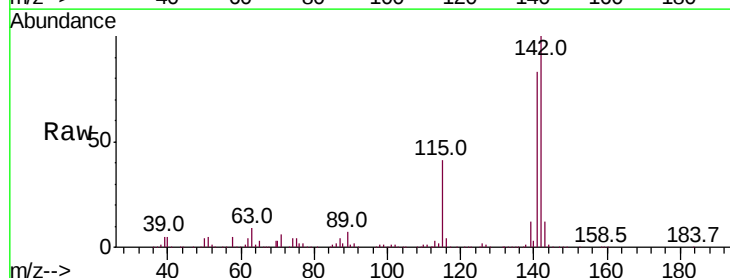
Tgt Ion:142 Resp: 1484934

Ion Ratio Lower Upper

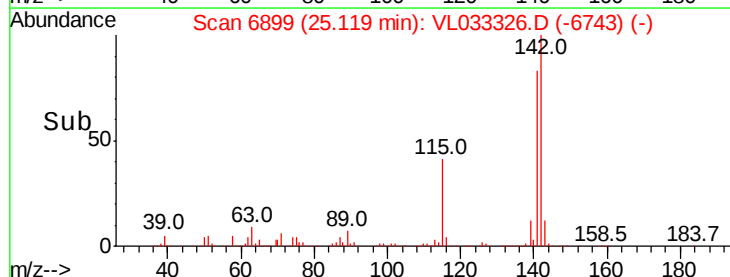
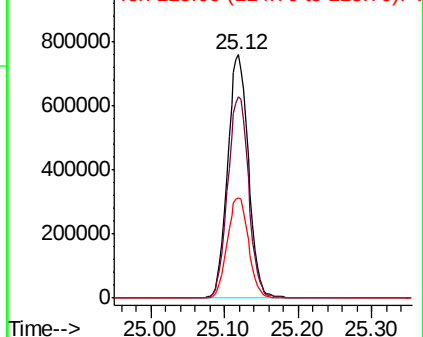
142 100

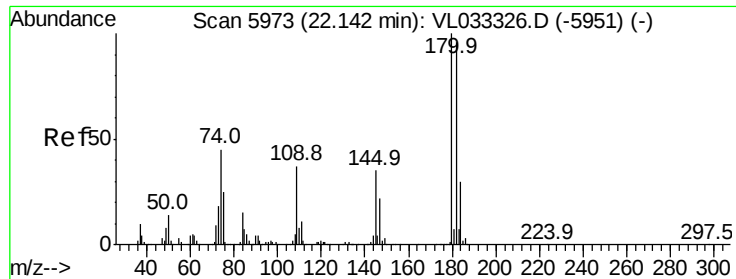
141 83.9 67.1 100.7

115 42.0 33.8 50.6



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: 8.704 ppbv
 RT: 22.14 min Scan# 5973
 Delta R.T. 0.00 min
 Lab File: VL033326.D
 Acq: 15 Mar 2019 10:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.1	114.1
184	30.8	24.6	37.0

Manual Integrations
 APPROVED

MMDadoda
 3/19/2019 10:02:14 AM

