

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031219\
 Data File : VL033272.D
 Acq On : 12 Mar 2019 2:18
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 3/14/2019 5:05:35 AM

Quant Time: Mar 12 04:58:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 12 04:58:04 2019
 QLast Update : Tue Mar 12 04:49:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	916233	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2147556	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2307026m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1730342	9.37	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	2571133	13.529	ppbv	100
3) Chlorodifluoromethane	3.02	51	1610903	13.944	ppbv	100
4) Chloromethane	3.17	50	869983	14.331	ppbv	100
5) Vinyl Chloride	3.29	62	846507	14.408	ppbv	100
6) Bromomethane	3.52	94	522798	14.039	ppbv	100
7) Chloroethane	3.60	64	301665	13.877	ppbv	100
8) Dichlorotetrafluoroethane	3.22	85	2046693	13.619	ppbv	100
9) Propene	3.04	41	732045	14.269	ppbv	100
10) Heptane	8.25	43	1200058	9.864	ppbv	100
11) Trichlorofluoromethane	4.01	101	1851492	11.634	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	996585	9.962	ppbv	100
13) Ethanol	3.65	45	142306	9.937	ppbv	99
14) Bromoethene	3.79	108	426611	10.359	ppbv	100
15) Acetone	3.90	43	1211116	10.620	ppbv	100
16) 1,3-Butadiene	3.36	39	689472	14.014	ppbv	100
17) tert-Butyl alcohol	4.36	59	180452	10.079	ppbv	100
18) 1,1-Dichloroethene	4.35	96	446691	10.190	ppbv	100
19) Isopropyl Alcohol	4.02	45	759370	11.101	ppbv	100
20) Methylene Chloride	4.41	84	393536	8.740	ppbv	100
21) Allyl Chloride	4.48	41	702256	10.648	ppbv	100
22) trans-1,2-Dichloroethene	4.97	96	536221	11.473	ppbv	100
23) Vinyl Acetate	5.16	43	1717182	10.861	ppbv	100
24) 1,1-Dichloroethane	5.09	63	1391170	11.600	ppbv	100
25) Ethyl Acetate	5.77	43	1996801	9.565	ppbv	100
26) Hexane	5.78	57	901270	9.160	ppbv	100
27) Carbon Disulfide	4.62	76	1129002	11.334	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1480690	11.412	ppbv	100
29) Chloroform	5.85	83	1456386	9.731	ppbv	100
30) Cyclohexane	7.25	84	747740	10.114	ppbv	100
31) cis-1,2-Dichloroethene	5.64	61	933278	10.039	ppbv	100
32) 1,1,1-Trichloroethane	6.62	97	1466363	10.392	ppbv	100
34) 2-Butanone	5.33	43	1337019	10.042	ppbv	100
35) Carbon Tetrachloride	7.14	117	1508624	10.256	ppbv	100
36) Benzene	7.01	78	1866548	9.832	ppbv	100
37) 1,2-Dichloroethane	6.42	62	1124998	9.278	ppbv	100
38) Trichloroethene	7.97	130	703243	9.791	ppbv	100
39) 1,2-Dichloropropane	7.74	63	718569	9.894	ppbv	100
40) 1,4-Dioxane	7.96	88	244776	9.192	ppbv	100
41) Tetrahydrofuran	6.15	42	767085	10.181	ppbv	100
42) Bromodichloromethane	7.92	83	1611044	9.961	ppbv	100
43) Methyl Methacrylate	8.14	69	764891	10.316	ppbv	100

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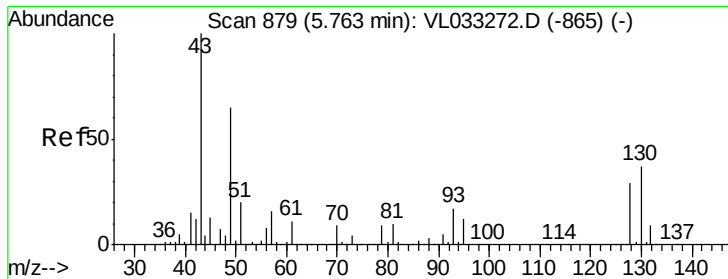
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 12 04:58:04 2019
 QLast Update : Tue Mar 12 04:49:55 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3101138	9.472	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1008572	11.218	ppbv	100
46) cis-1,3-Dichloropropene	8.84	75	1163268	10.980	ppbv	100
47) 1,1,2-Trichloroethane	9.62	97	755629	9.691	ppbv	100
48) Dibromochloromethane	10.46	129	1331743	10.420	ppbv	100
49) Bromoform	13.21	173	1135002	9.897	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1942436	9.900	ppbv	100
51) 2-Hexanone	10.27	43	1515430	10.360	ppbv #	100
52) Tetrachloroethene	11.38	164	695503	10.023	ppbv	100
53) Toluene	9.95	91	2183714	10.295	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1189007	9.725	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.28	131	911782	9.455	ppbv	100
57) Chlorobenzene	12.31	112	1576564	9.291	ppbv	100
58) Ethyl Benzene	12.87	91	3033475	9.691	ppbv	100
59) m/p-Xylene	13.13	91	5021138m	17.745	ppbv	
60) o-Xylene	13.86	91	2370866	8.682	ppbv	100
61) Styrene	13.69	104	1768363	9.485	ppbv	100
62) Isopropylbenzene	14.83	105	3295000	9.042	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1547550	8.792	ppbv	100
64) n-propylbenzene	15.73	120	838158	9.388	ppbv	100
65) tert-Butylbenzene	16.91	119	2811206	9.163	ppbv	100
66) Benzyl Chloride	17.16	91	1387565	12.137	ppbv	100
67) sec-Butylbenzene	17.46	105	4009500	9.211	ppbv	100
69) p-Isopropyltoluene	17.82	119	3349885	9.470	ppbv	100
70) n-Butylbenzene	18.72	91	3622914	9.451	ppbv	100
71) 2-Chlorotoluene	15.62	91	2505901	9.201	ppbv	100
72) 4-Ethyltoluene	16.00	105	2687922	9.468	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	2543209	9.405	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	2607230	9.250	ppbv	100
75) 1,3-Dichlorobenzene	17.17	146	1497209	9.002	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1515702	9.289	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1479245	9.214	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1080150	8.877	ppbv	100
79) Naphthalene	22.42	128	3869634	12.567	ppbv	100
80) Naphthalene,2-methyl-	25.12	142	1502361	20.165	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	1793976	11.274	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.00 min

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ClientSampleId :

VSTDICCC010

Tgt Ion: 49 Resp: 916233
Ion Ratio Lower Upper

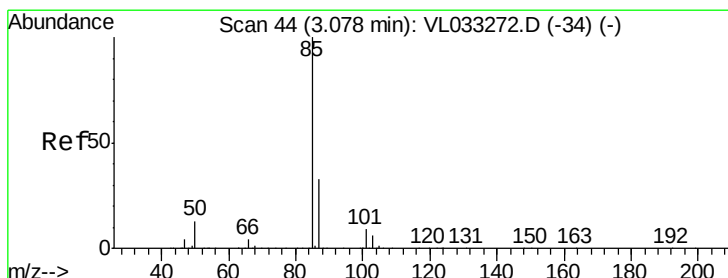
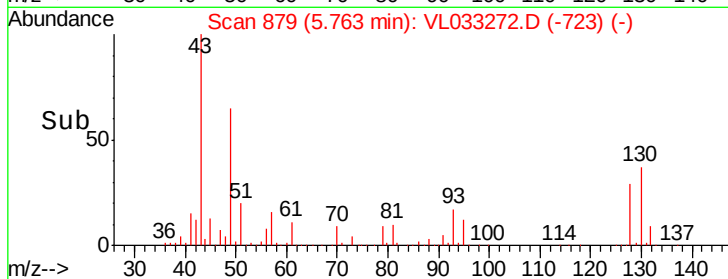
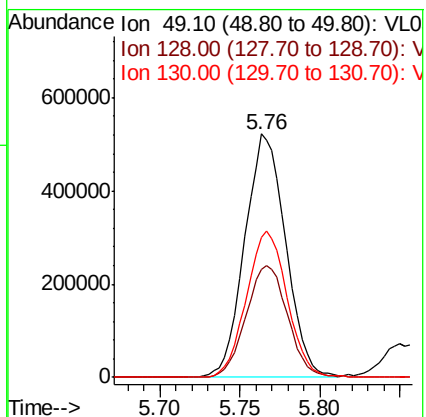
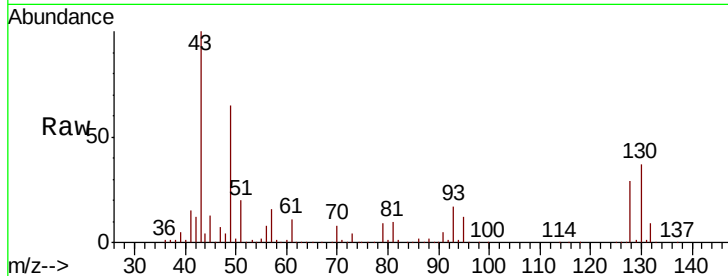
49 100

128 46.6 23.3 69.9

130 60.0 30.0 90.1

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 13.529 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

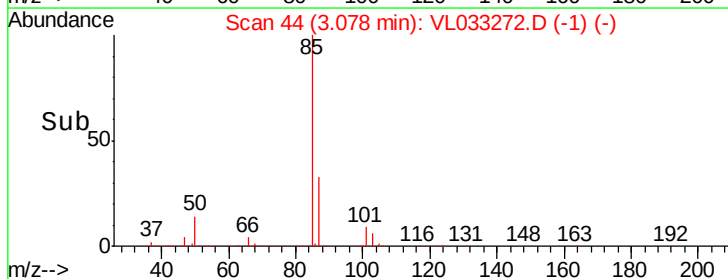
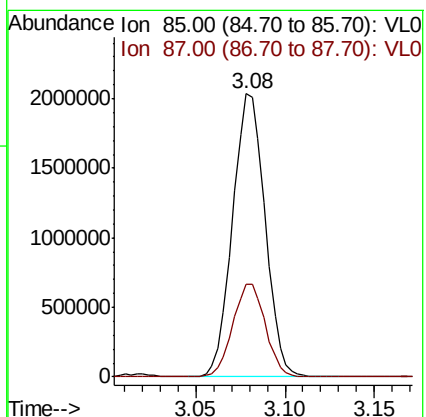
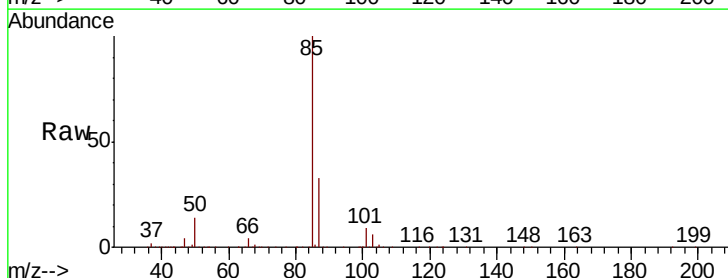
Lab File: VL033272.D

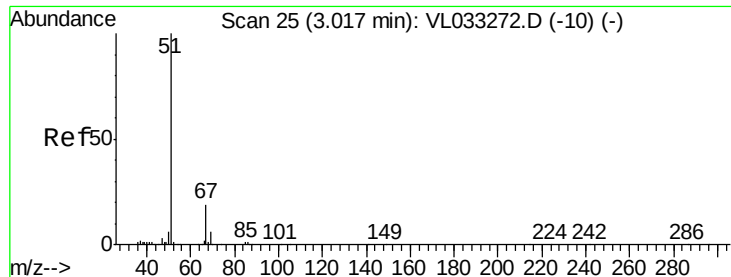
Acq: 12 Mar 2019 2:18

Tgt Ion: 85 Resp: 2571133
Ion Ratio Lower Upper

85 100

87 33.0 26.4 39.6





#3

Chlorodifluoromethane

Concen: 13.944 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033272.D

Acq: 12 Mar 2019 2:18

Tgt Ion: 51 Resp: 1610903

Ion Ratio Lower Upper

51 100

67 18.7 15.0 22.4

Instrument :

MSVOA_L

ClientSampleId :

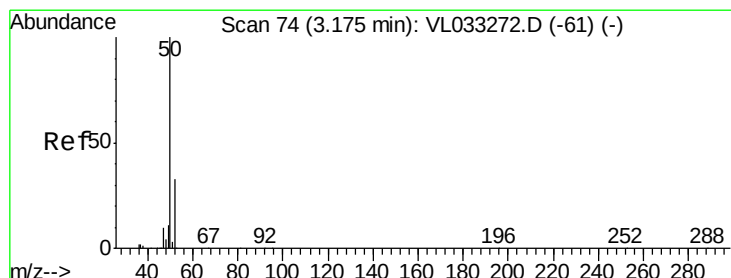
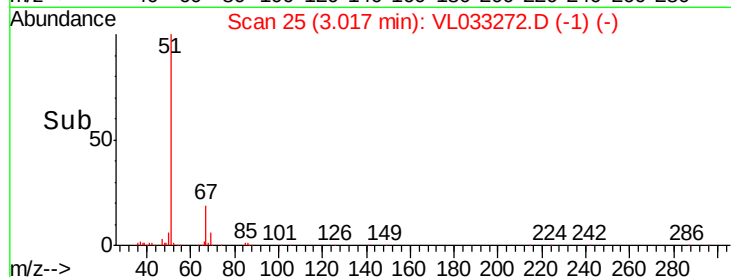
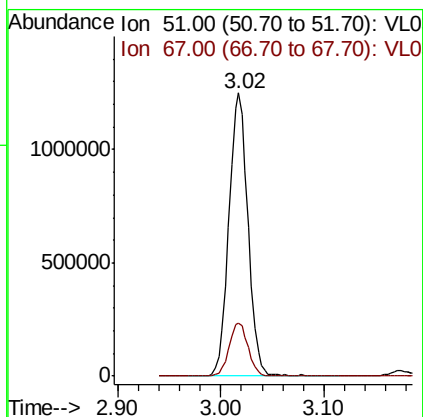
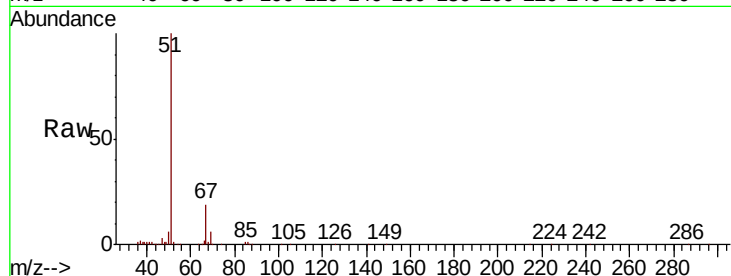
VSTDICCC010

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#4

Chloromethane

Concen: 14.331 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL033272.D

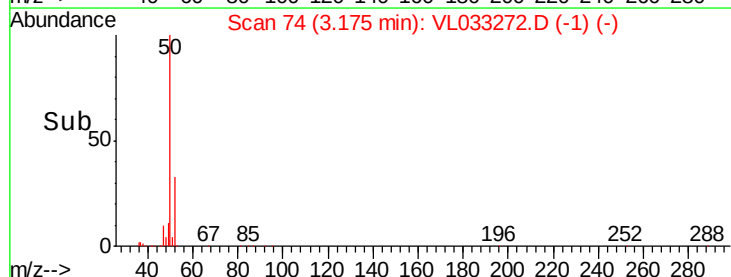
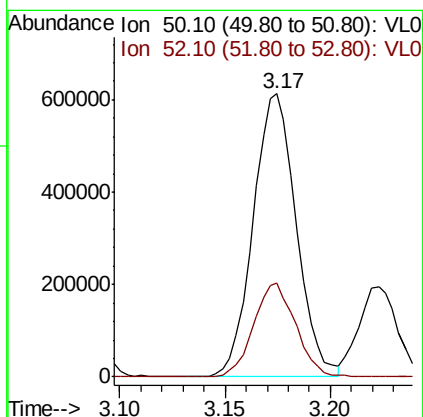
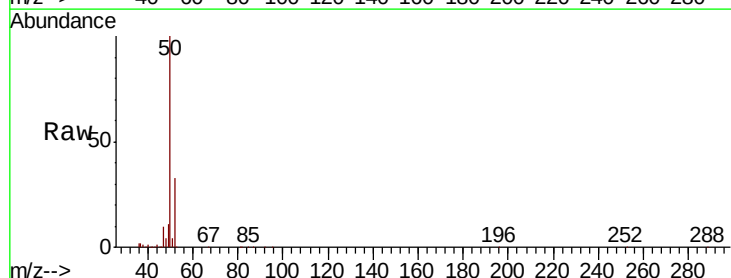
Acq: 12 Mar 2019 2:18

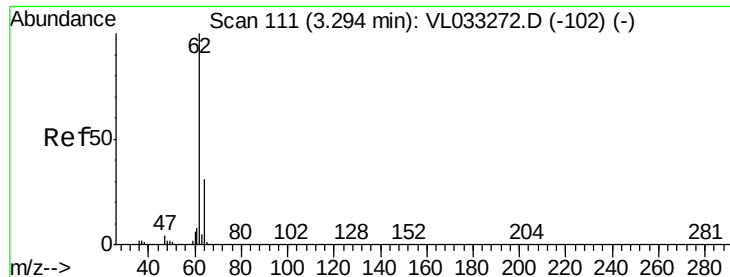
Tgt Ion: 50 Resp: 869983

Ion Ratio Lower Upper

50 100

52 33.2 26.6 39.8





#5

Vinyl Chloride

Concen: 14.408 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033272.D

Acq: 12 Mar 2019 2:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 62 Resp: 846507

Ion Ratio Lower Upper

62 100

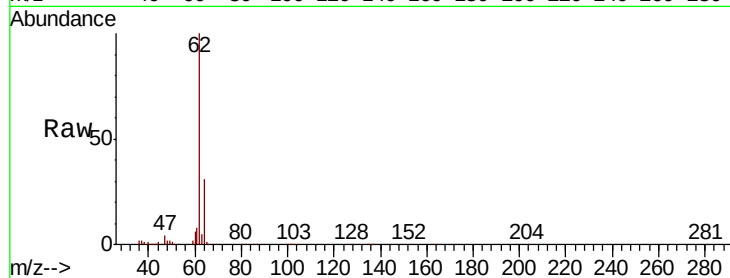
64 30.6 24.5 36.7

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.29

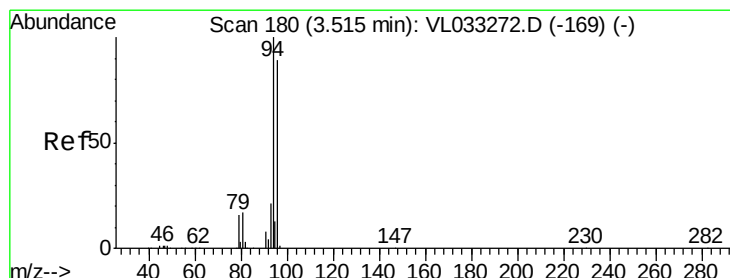
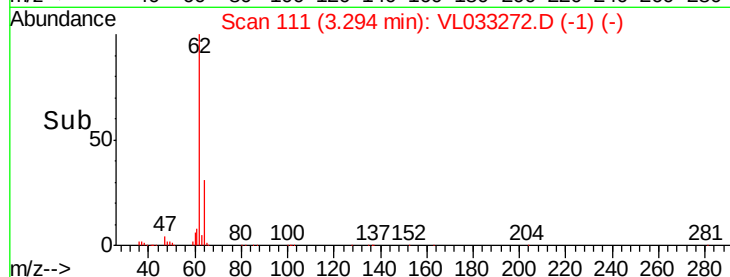
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400000

200000

0

Time-->



#6

Bromomethane

Concen: 14.039 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033272.D

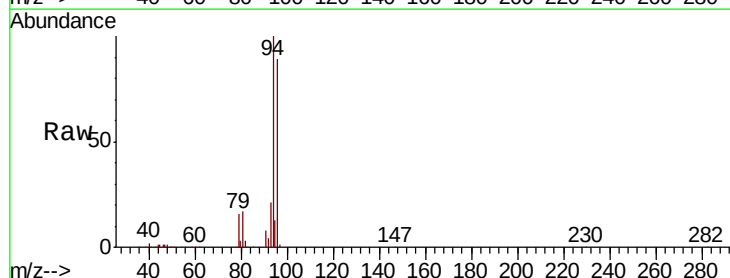
Acq: 12 Mar 2019 2:18

Tgt Ion: 94 Resp: 522798

Ion Ratio Lower Upper

94 100

96 89.1 71.3 106.9



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.52

400000

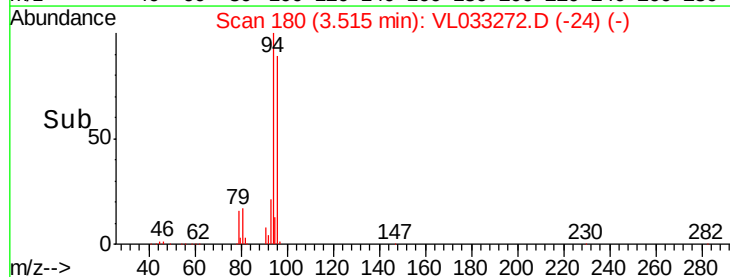
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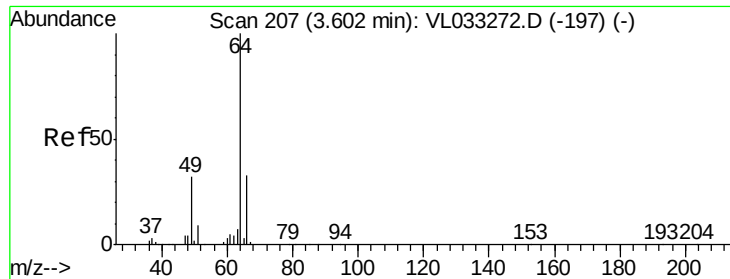
200000

100000

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Time-->





#7

Chloroethane

Concen: 13.877 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033272.D

Acq: 12 Mar 2019 2:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 64 Resp: 301665

Ion Ratio Lower Upper

64 100

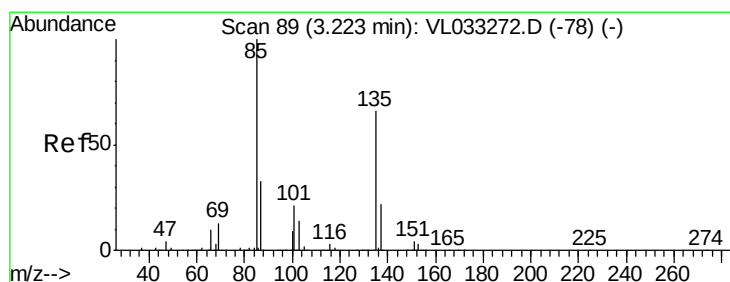
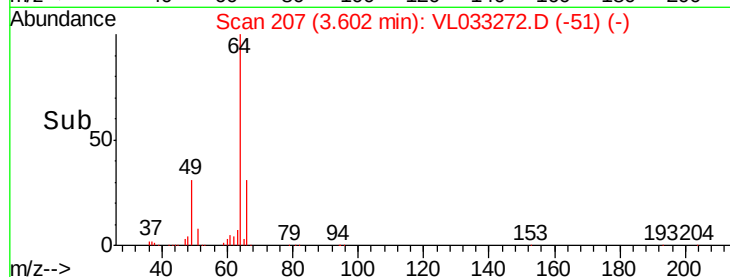
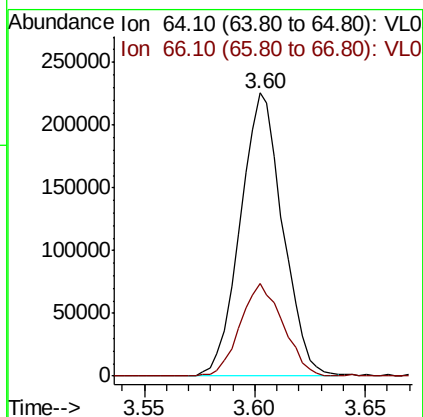
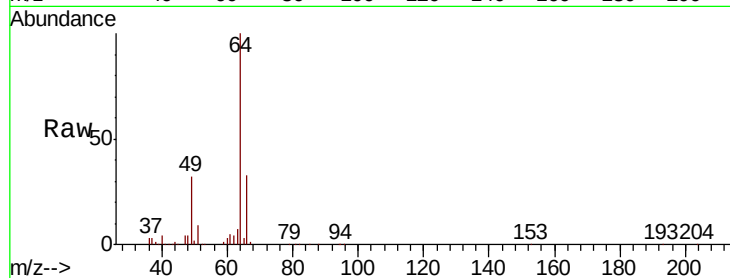
66 32.7 26.2 39.2

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 13.619 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.00 min

Lab File: VL033272.D

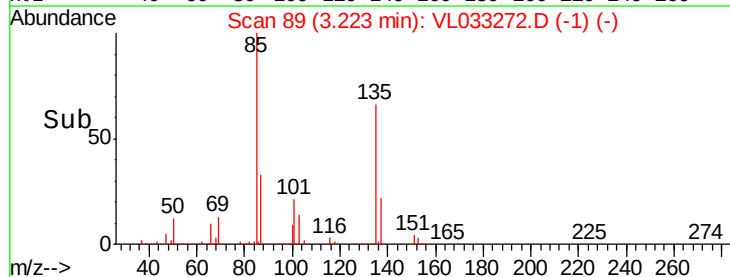
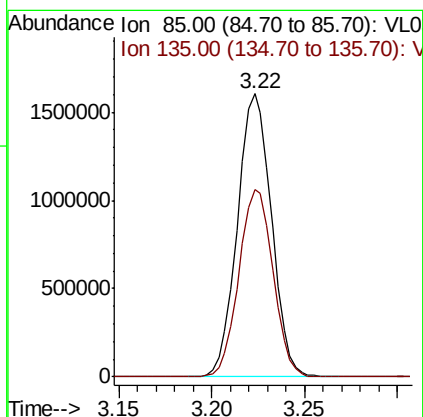
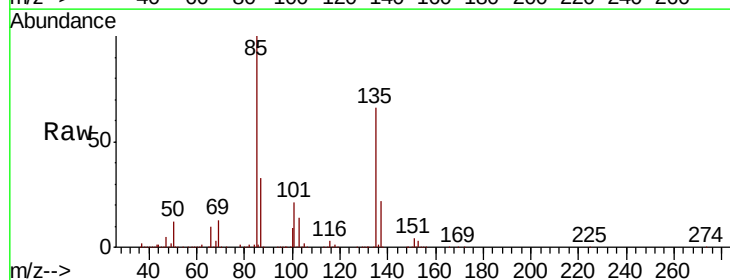
Acq: 12 Mar 2019 2:18

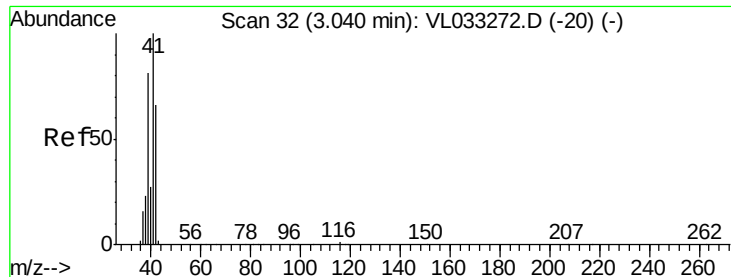
Tgt Ion: 85 Resp: 2046693

Ion Ratio Lower Upper

85 100

135 66.8 53.4 80.2





#9

Propene

Concen: 14.269 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

Lab File: VL033272.D

Acq: 12 Mar 2019 2:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 41 Resp: 732045

Ion Ratio Lower Upper

41 100

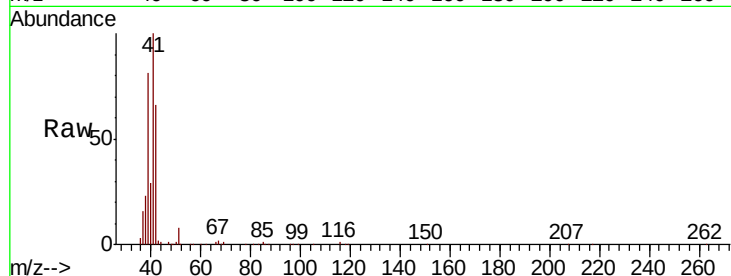
42 68.3 54.6 82.0

Manual Integrations

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MMDadoda

3/14/2019 5:05:35 AM



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.04

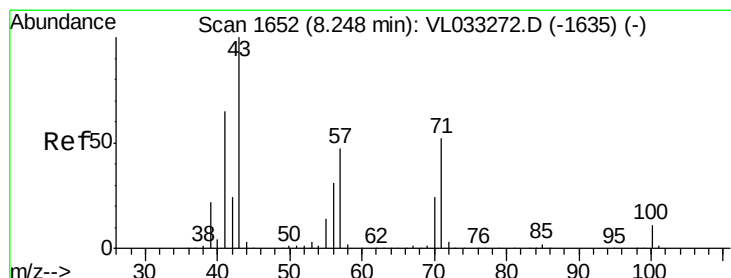
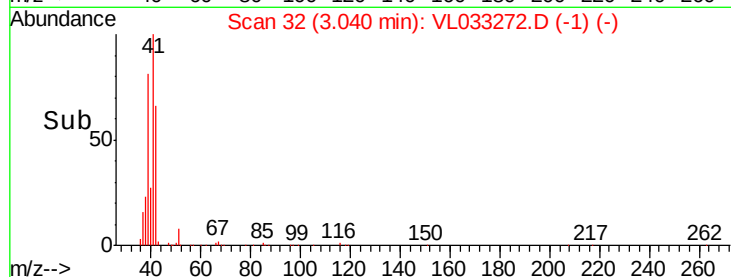
600000

400000

200000

0

Time-->



#10

Heptane

Concen: 9.864 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. 0.00 min

Lab File: VL033272.D

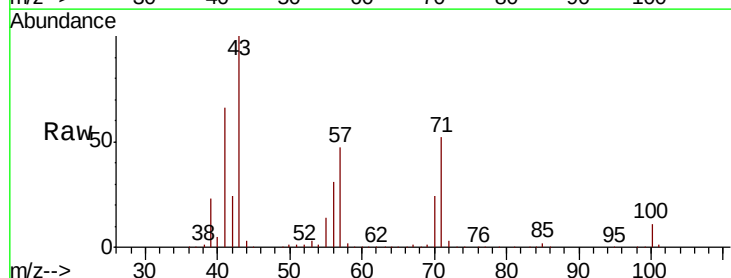
Acq: 12 Mar 2019 2:18

Tgt Ion: 43 Resp: 1200058

Ion Ratio Lower Upper

43 100

57 49.8 39.8 59.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.25

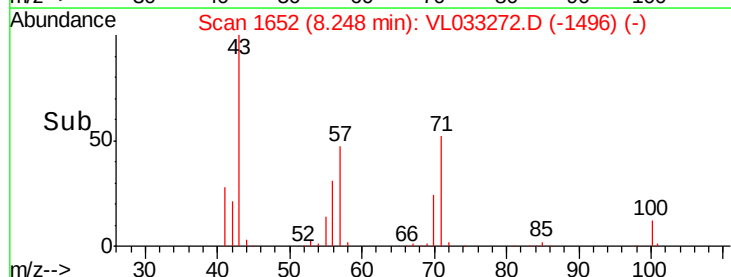
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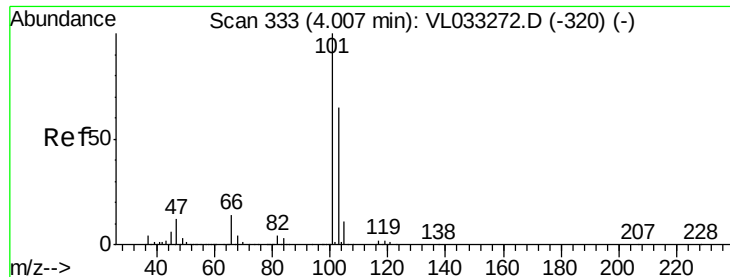
400000

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Time-->





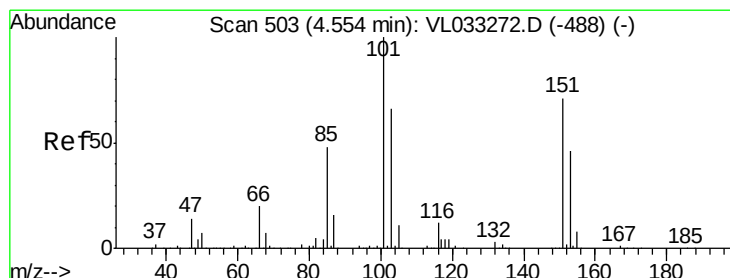
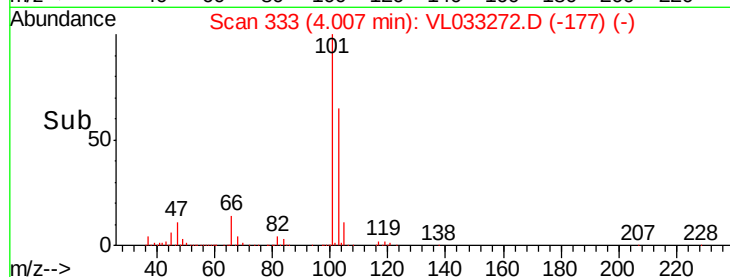
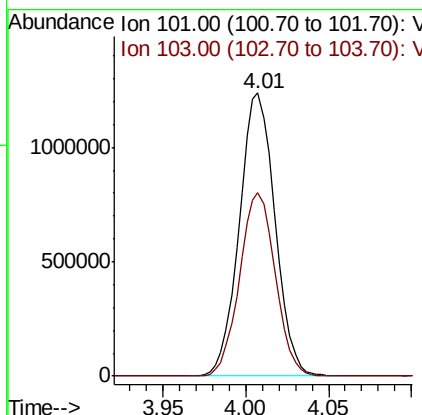
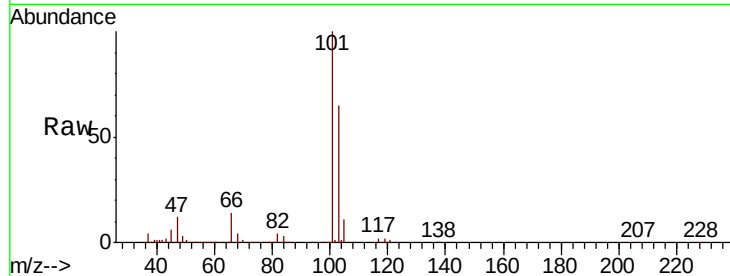
#11
 Trichlorofluoromethane
 Concen: 11.634 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. 0.00 min
 Lab File: VL033272.D
 Acq: 12 Mar 2019 2:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion:101 Resp: 1851492
 Ion Ratio Lower Upper
 101 100
 103 64.8 51.8 77.8

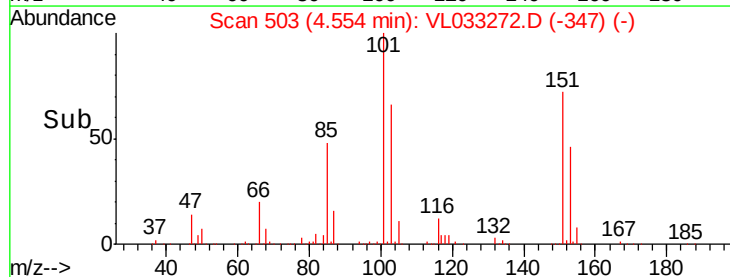
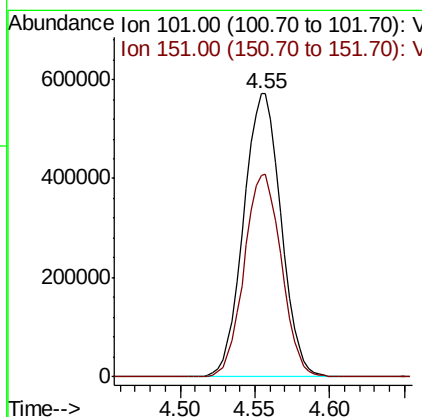
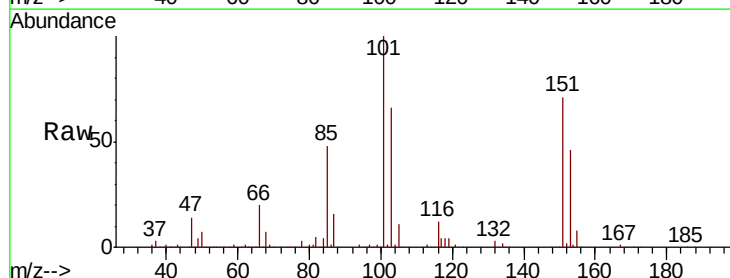
Manual Integrations
 APPROVED

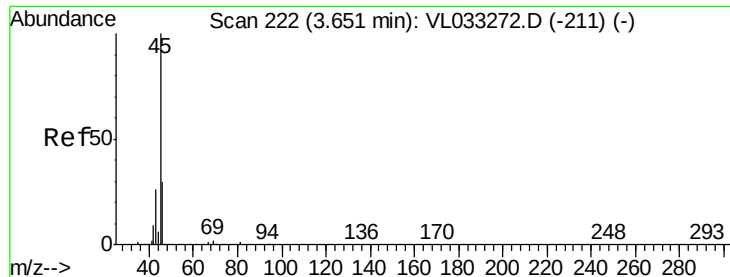
MMDadoda
 3/14/2019 5:05:35 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.962 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VL033272.D
 Acq: 12 Mar 2019 2:18

Tgt Ion:101 Resp: 996585
 Ion Ratio Lower Upper
 101 100
 151 71.1 56.9 85.3





#13

Ethanol

Concen: 9.937 ppbv

RT: 3.65 min Scan# 222

Delta R.T. 0.00 min

Lab File: VL033272.D

Acq: 12 Mar 2019 2:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 45 Resp: 142306

Ion Ratio Lower Upper

45 100

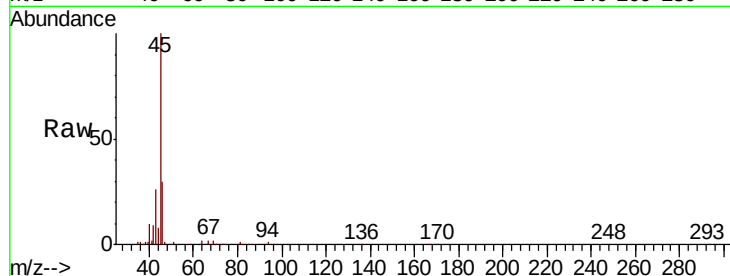
46 35.2 13.9 55.7

Manual Integrations

APPROVED

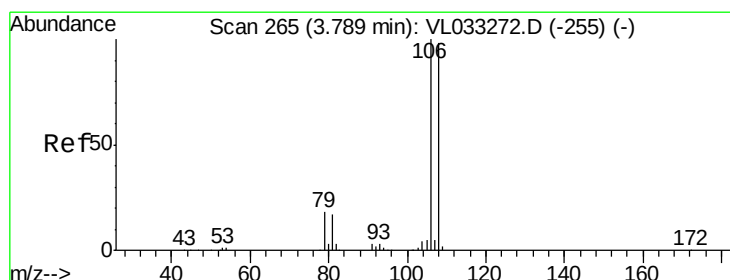
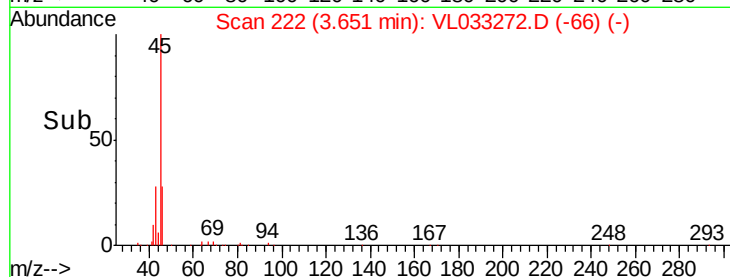
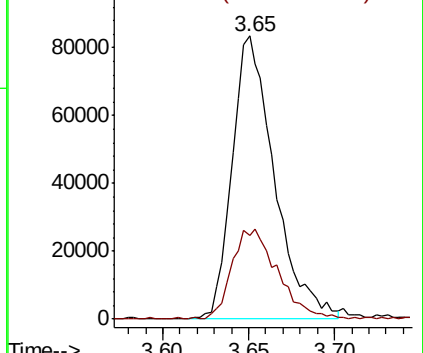
MMDadoda

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 10.359 ppbv

RT: 3.79 min Scan# 265

Delta R.T. 0.00 min

Lab File: VL033272.D

Acq: 12 Mar 2019 2:18

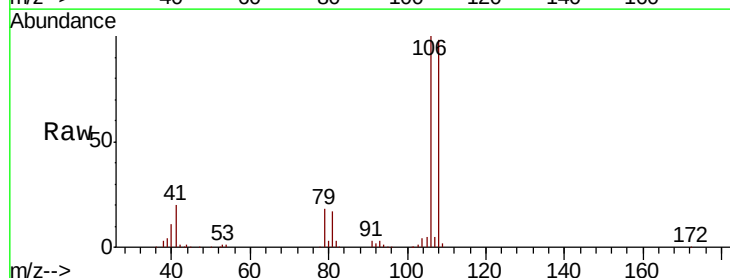
Tgt Ion: 108 Resp: 426611

Ion Ratio Lower Upper

108 100

106 107.4 85.9 128.9

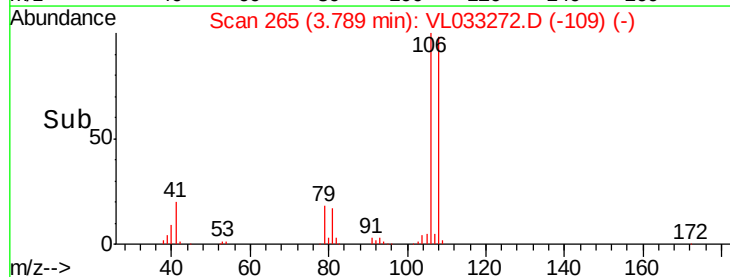
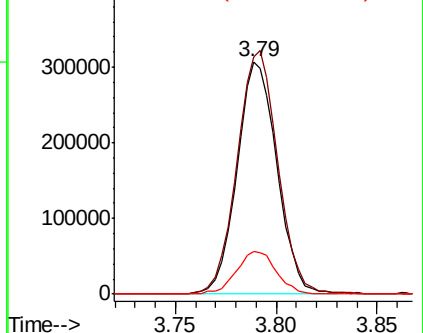
79 18.6 14.9 22.3

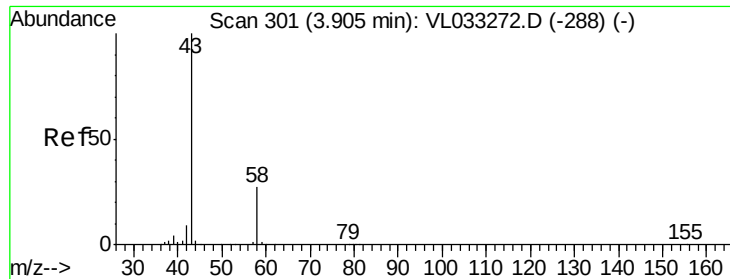


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





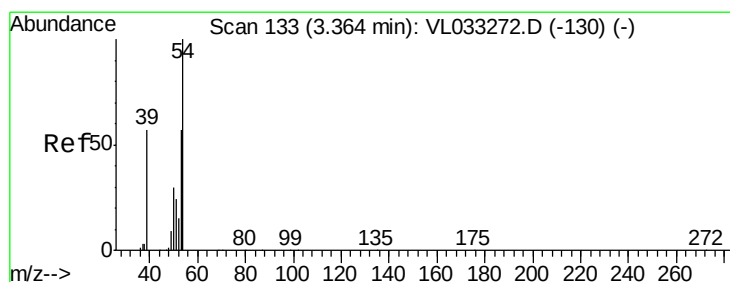
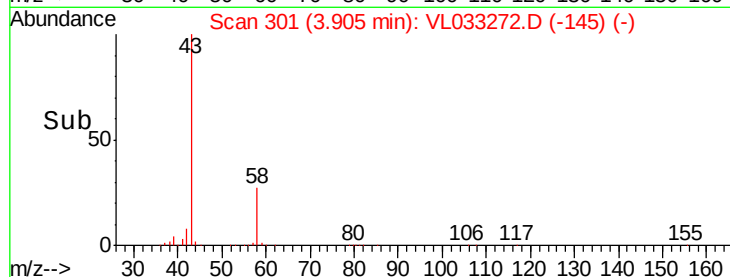
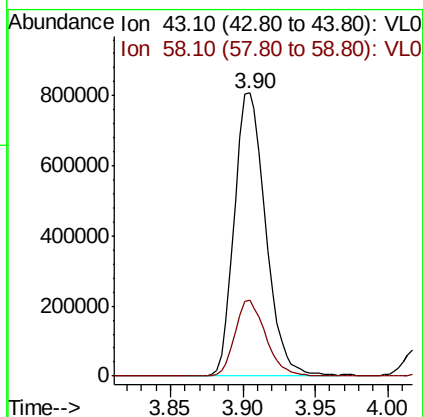
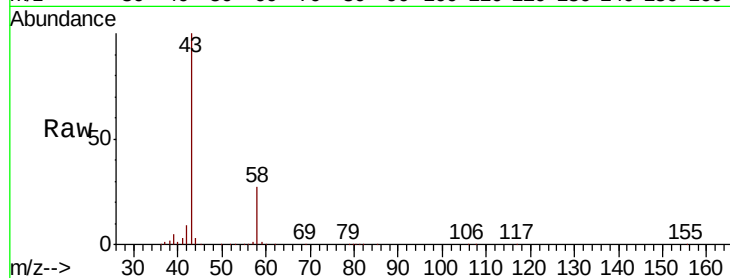
#15
Acetone
Concen: 10.620 ppbv
RT: 3.90 min Scan# 301
Delta R.T. 0.00 min
Lab File: VL033272.D
Acq: 12 Mar 2019 2:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 1211116
Ion Ratio Lower Upper
43 100
58 26.4 21.1 31.7

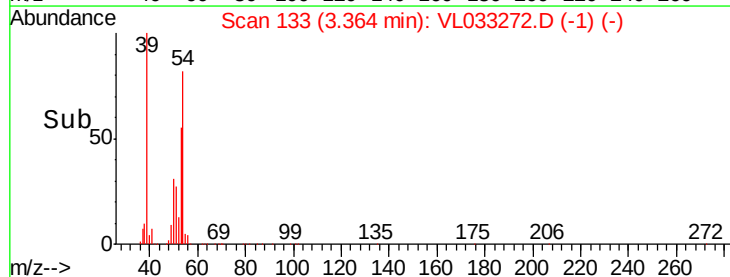
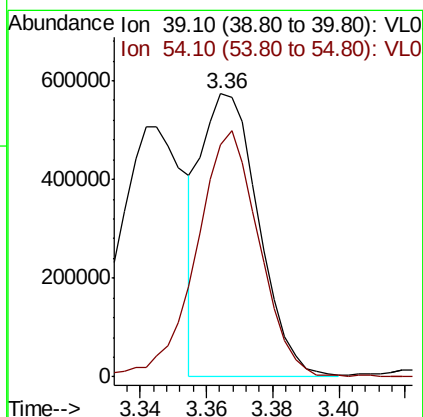
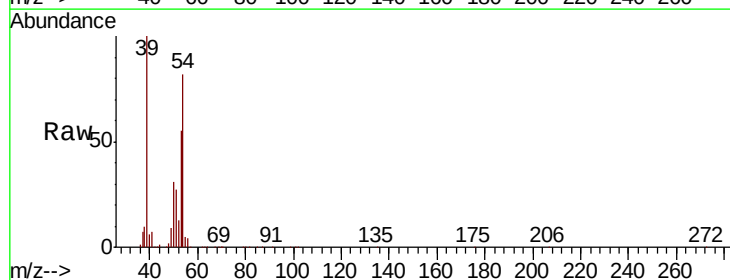
Manual Integrations
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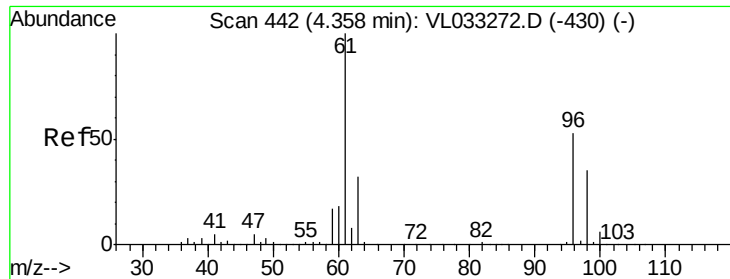
MMDadoda
3/14/2019 5:05:35 AM



#16
1,3-Butadiene
Concen: 14.014 ppbv
RT: 3.36 min Scan# 133
Delta R.T. 0.00 min
Lab File: VL033272.D
Acq: 12 Mar 2019 2:18

Tgt Ion: 39 Resp: 689472
Ion Ratio Lower Upper
39 100
54 95.7 76.6 114.8





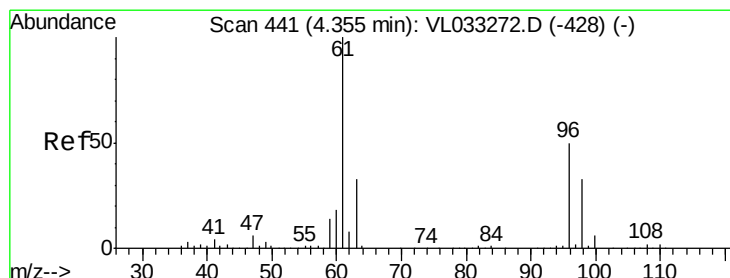
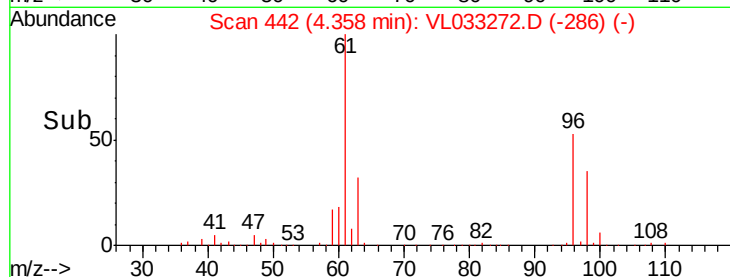
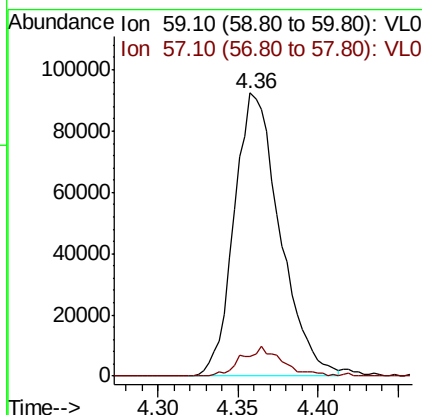
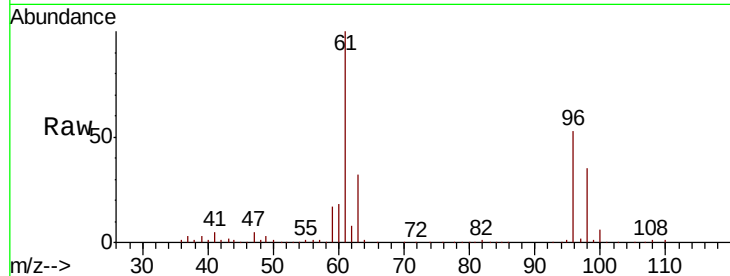
#17
tert-Butyl alcohol
Concen: 10.079 ppbv
RT: 4.36 min Scan# 442
Delta R.T. 0.00 min
Lab File: VL033272.D
Acq: 12 Mar 2019 2:18

Instrument :
MSVOA_L
ClientSampled :
VSTDICCC010

Tgt Ion: 59 Resp: 180452
Ion Ratio Lower Upper
59 100
57 9.4 7.5 11.3

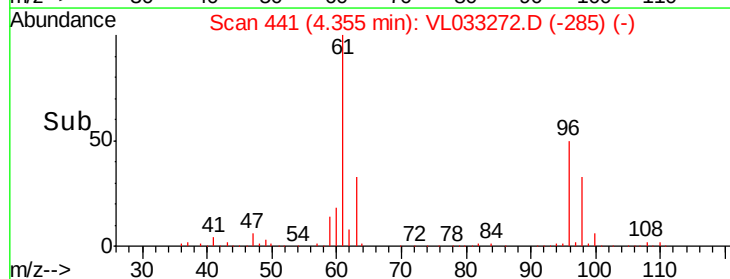
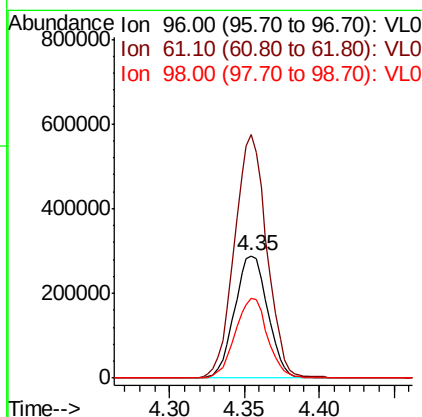
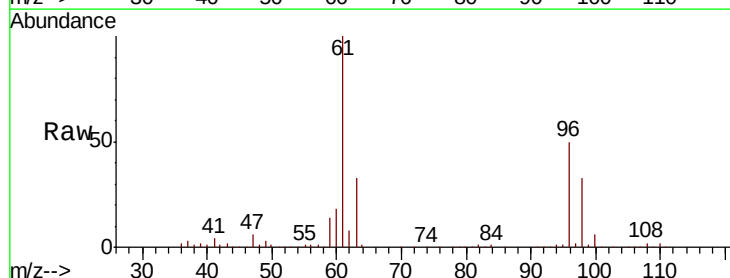
Manual Integrations
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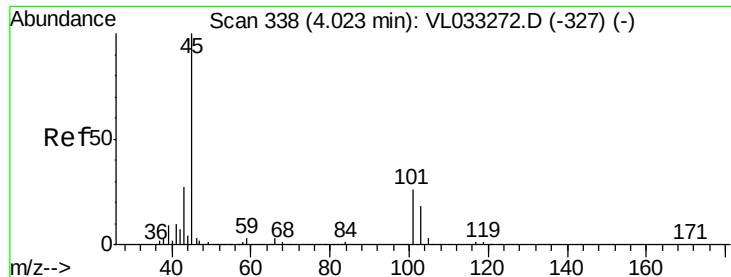
MMDadoda
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#18
1,1-Dichloroethene
Concen: 10.190 ppbv
RT: 4.35 min Scan# 441
Delta R.T. 0.00 min
Lab File: VL033272.D
Acq: 12 Mar 2019 2:18

Tgt Ion: 96 Resp: 446691
Ion Ratio Lower Upper
96 100
61 198.6 158.9 238.3
98 65.5 52.4 78.6





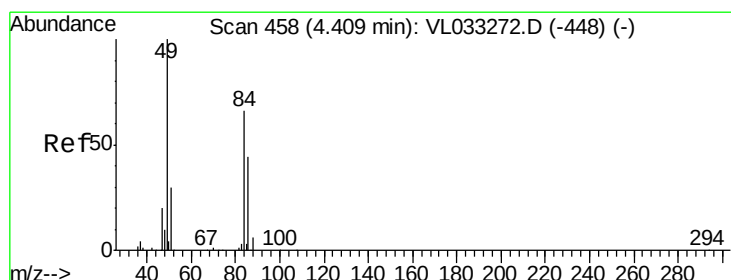
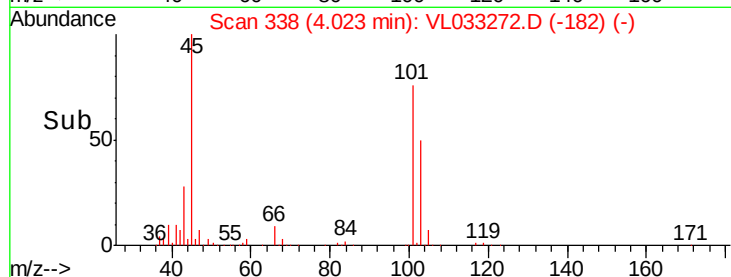
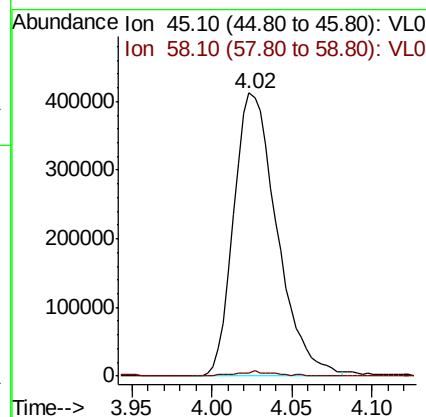
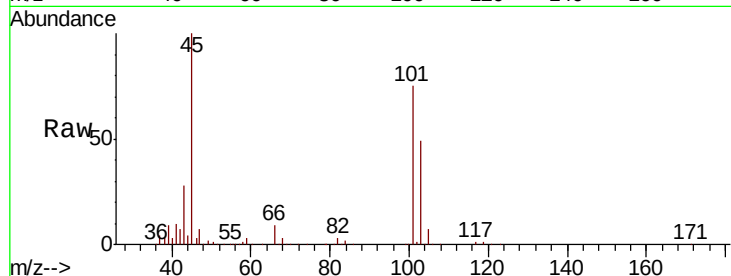
#19
Isopropyl Alcohol
Concen: 11.101 ppbv
RT: 4.02 min Scan# 338
Delta R.T. 0.00 min
Lab File: VL033272.D
Acq: 12 Mar 2019 2:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 45 Resp: 759370
Ion Ratio Lower Upper
45 100
58 1.8 1.4 2.2

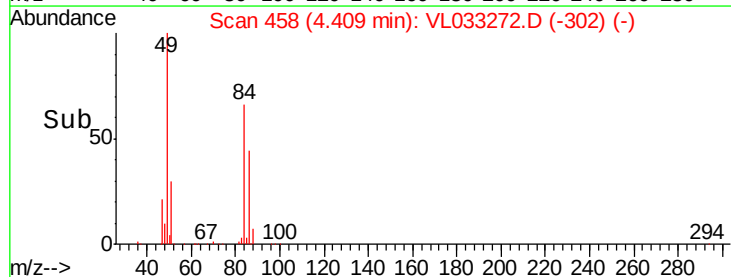
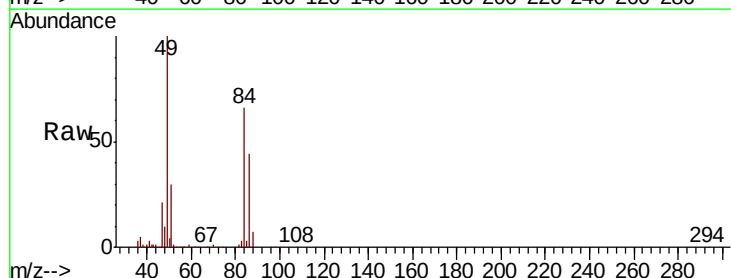
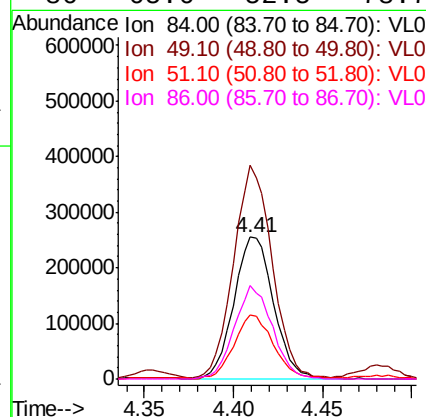
Manual Integrations
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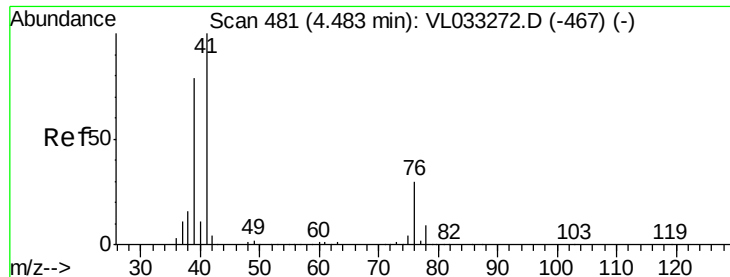
MMDadoda
3/14/2019 5:05:35 AM



#20
Methylene Chloride
Concen: 8.740 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.00 min
Lab File: VL033272.D
Acq: 12 Mar 2019 2:18

Tgt Ion: 84 Resp: 393536
Ion Ratio Lower Upper
84 100
49 150.4 120.3 180.5
51 45.3 36.2 54.4
86 65.6 52.5 78.7





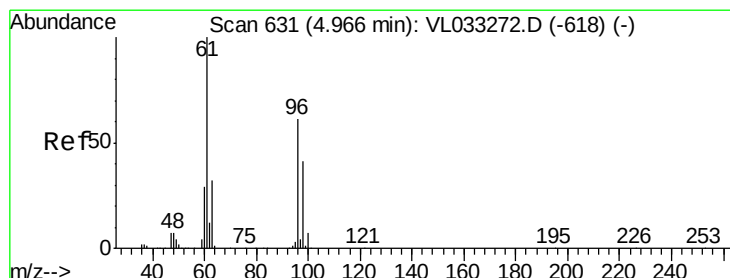
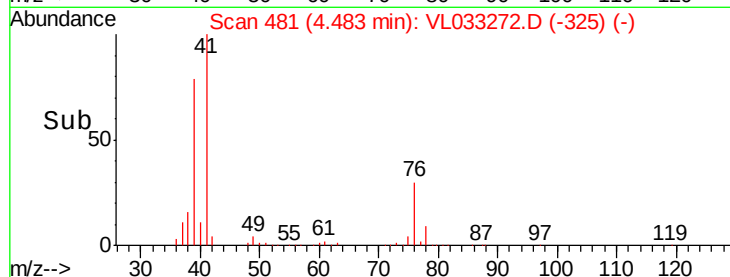
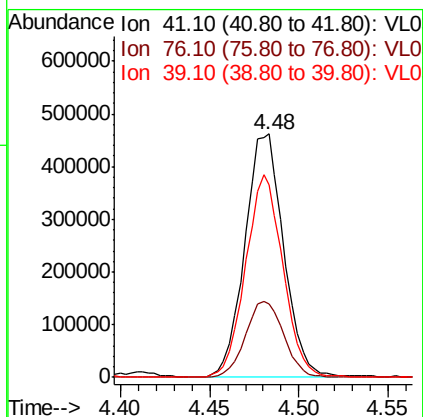
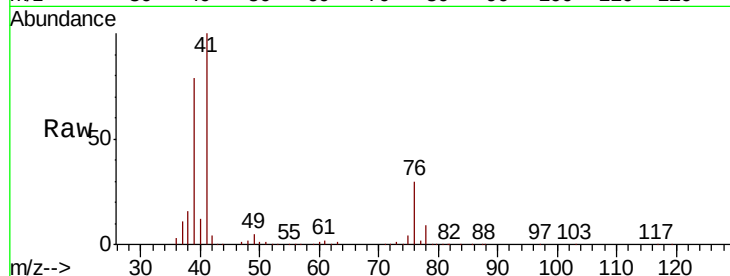
#21
 Allyl Chloride
 Concen: 10.648 ppbv
 RT: 4.48 min Scan# 481
 Delta R.T. 0.00 min
 Lab File: VL033272.D
 Acq: 12 Mar 2019 2:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion	Ratio	Lower	Upper
41	100		
76	31.1	25.0	37.4
39	80.1	64.2	96.4

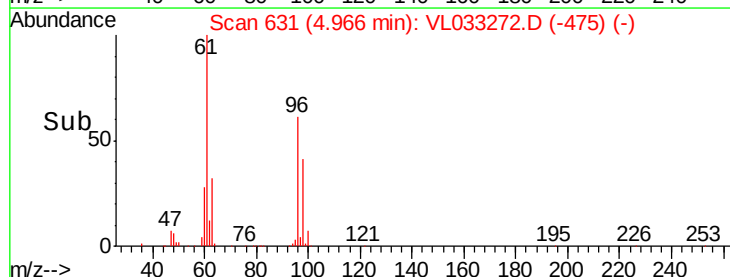
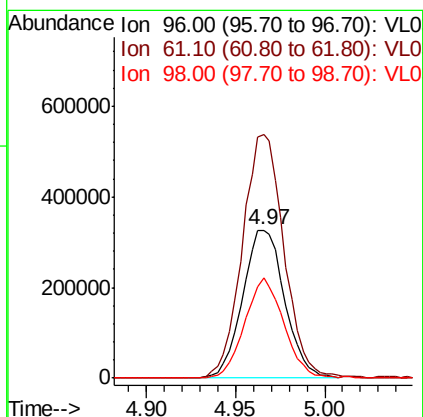
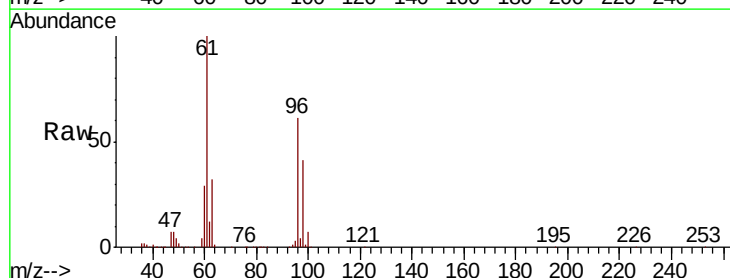
Manual Integrations
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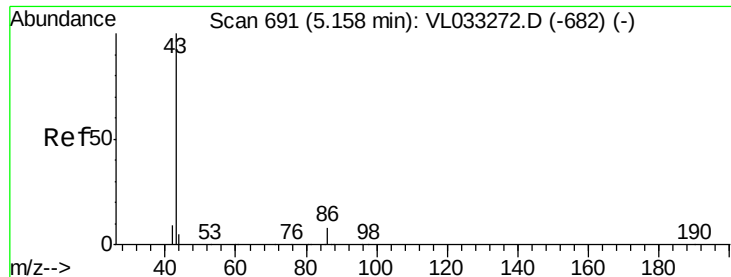
MMDadoda
 3/14/2019 5:05:35 AM



#22
 trans-1,2-Dichloroethene
 Concen: 11.473 ppbv
 RT: 4.97 min Scan# 631
 Delta R.T. 0.00 min
 Lab File: VL033272.D
 Acq: 12 Mar 2019 2:18

Tgt Ion	Ratio	Lower	Upper
96	100		
61	164.5	131.6	197.4
98	67.6	54.1	81.1





#23

Vinyl Acetate

Concen: 10.861 ppbv

RT: 5.16 min Scan# 691

Delta R.T. 0.00 min

Lab File: VL033272.D

Acq: 12 Mar 2019 2:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 43 Resp: 1717182

Ion Ratio Lower Upper

43 100

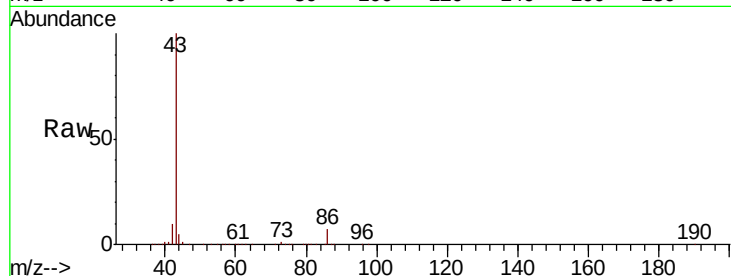
86 6.9 5.5 8.3

42 9.7 7.8 11.6

44 4.5 3.6 5.4

Manual Integrations
APPROVED

MMDadoda
3/14/2019 5:05:35 AM

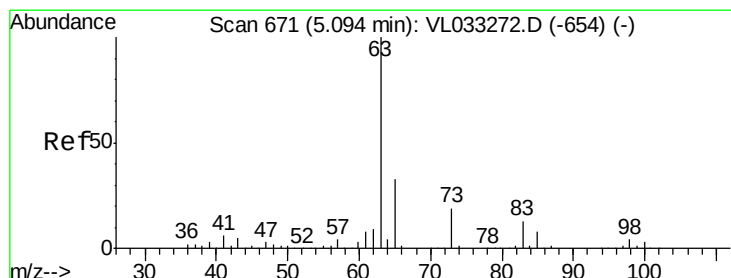
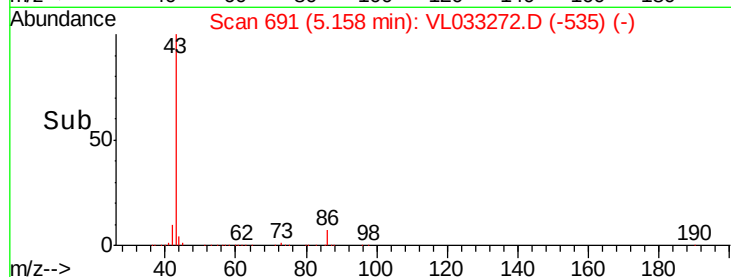
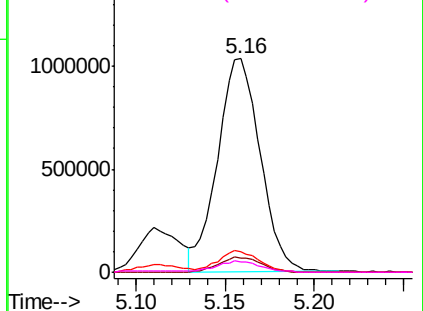


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 11.600 ppbv

RT: 5.09 min Scan# 671

Delta R.T. 0.00 min

Lab File: VL033272.D

Acq: 12 Mar 2019 2:18

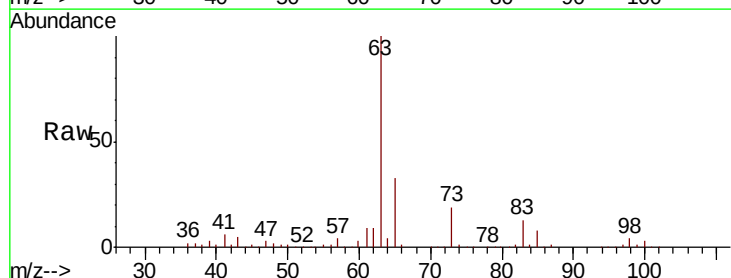
Tgt Ion: 63 Resp: 1391170

Ion Ratio Lower Upper

63 100

98 4.4 2.2 6.6

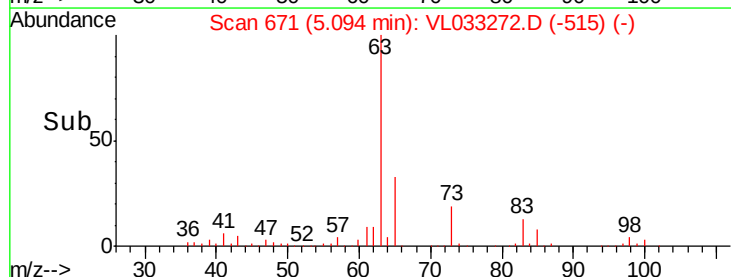
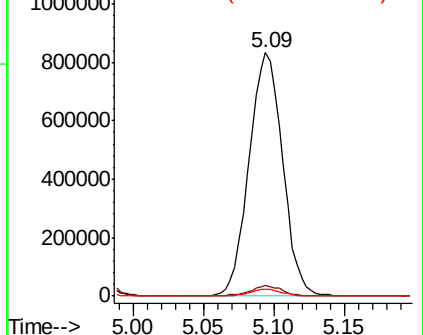
100 2.9 1.5 4.4

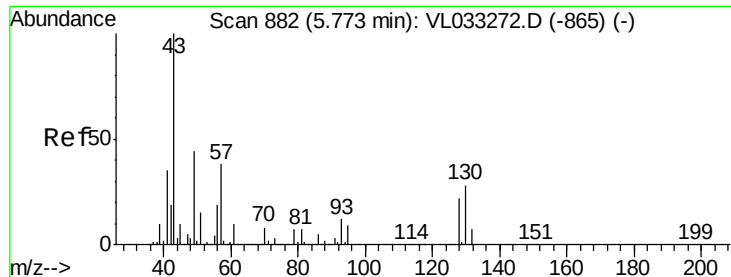


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.565 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.00 min

Lab File: VL033272.D

Acq: 12 Mar 2019 2:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 43 Resp: 1996801

Ion Ratio Lower Upper

43 100

45 9.7 7.8 11.6

61 9.1 7.3 10.9

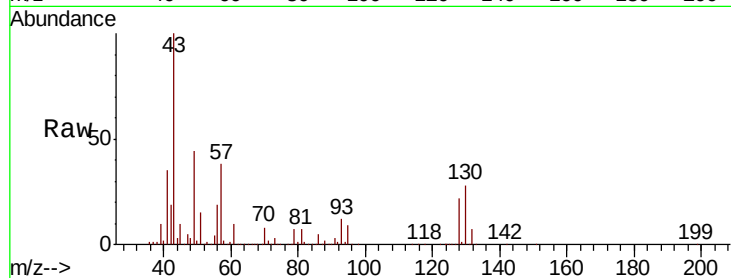
70 7.3 5.8 8.6

Manual Integrations

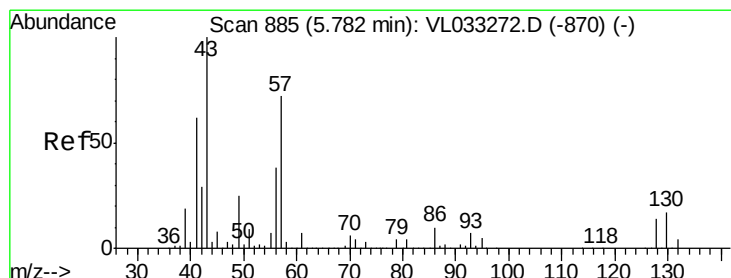
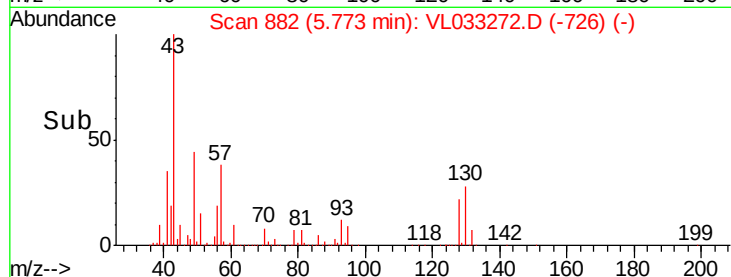
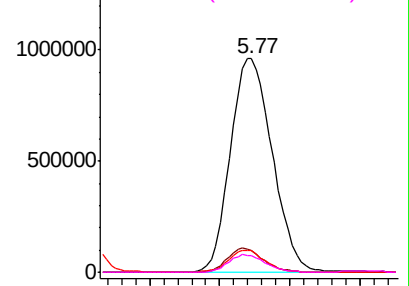
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Abundance Ion 43.10 (42.80 to 43.80): VL0
1500000
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 9.160 ppbv

RT: 5.78 min Scan# 885

Delta R.T. 0.00 min

Lab File: VL033272.D

Acq: 12 Mar 2019 2:18

Tgt Ion: 57 Resp: 901270

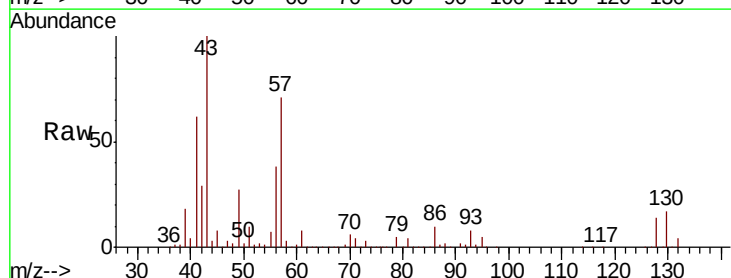
Ion Ratio Lower Upper

57 100

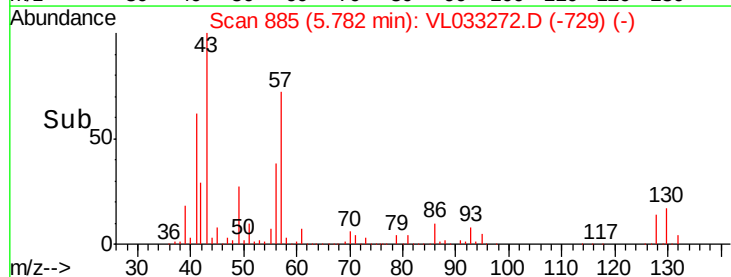
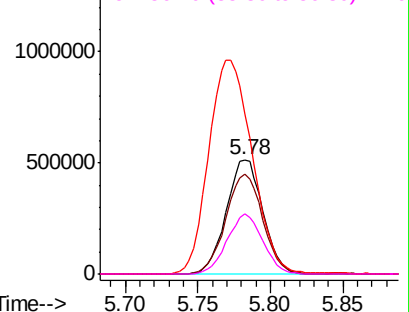
41 88.3 70.7 106.1

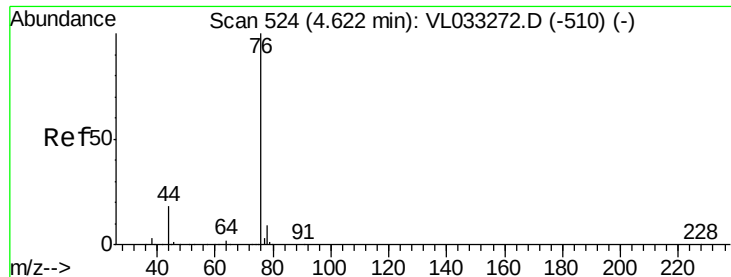
43 222.6 178.6 267.8

56 51.7 41.3 61.9



Abundance Ion 57.10 (56.80 to 57.80): VL0
1500000
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: 11.334 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033272.D

Acq: 12 Mar 2019 2:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 76 Resp: 1129002

Ion Ratio Lower Upper

76 100

44 18.9 15.1 22.7

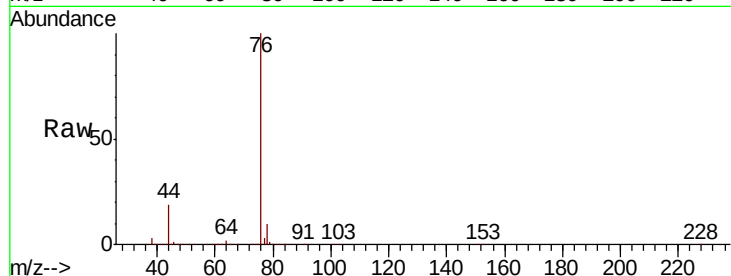
78 9.2 7.4 11.0

Manual Integrations

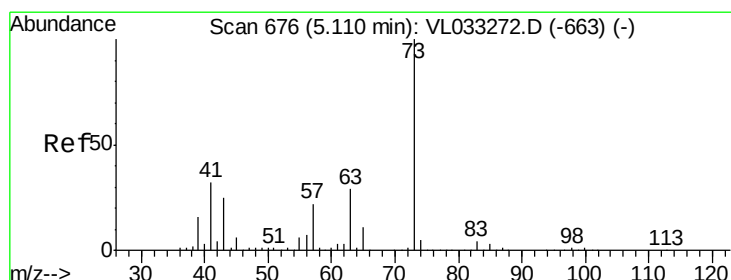
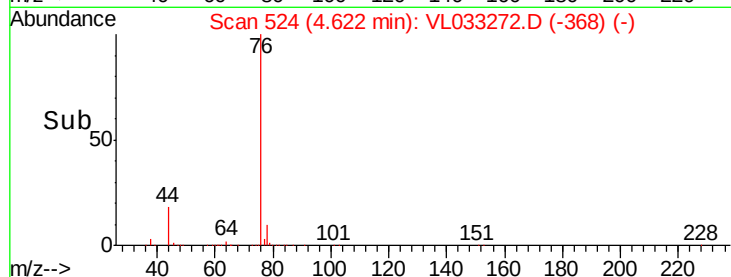
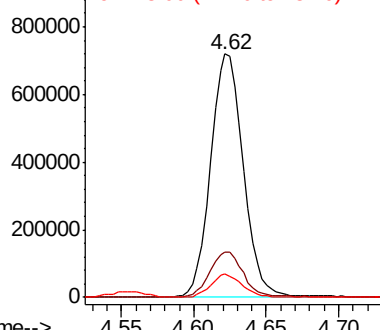
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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 11.412 ppbv

RT: 5.11 min Scan# 676

Delta R.T. 0.00 min

Lab File: VL033272.D

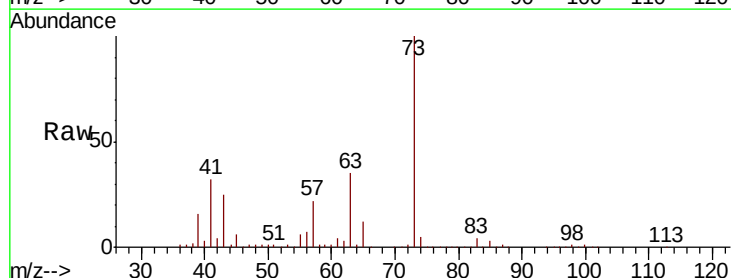
Acq: 12 Mar 2019 2:18

Tgt Ion: 73 Resp: 1480690

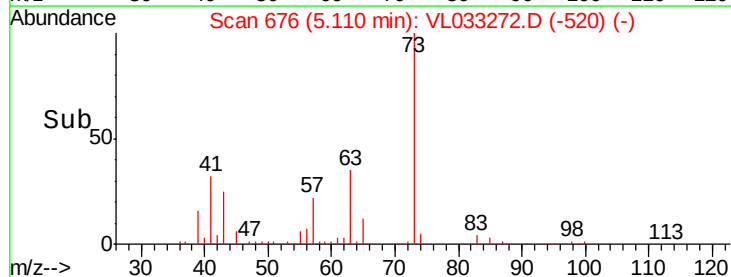
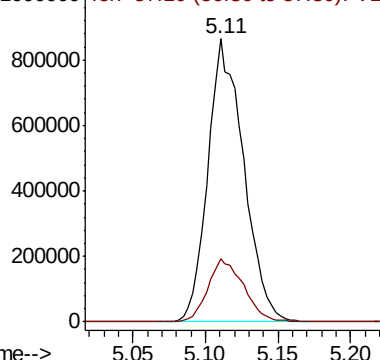
Ion Ratio Lower Upper

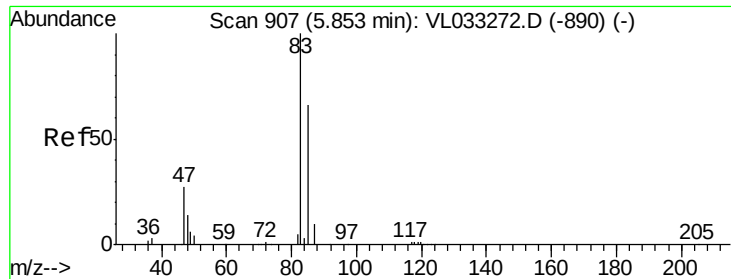
73 100

57 22.4 17.9 26.9



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





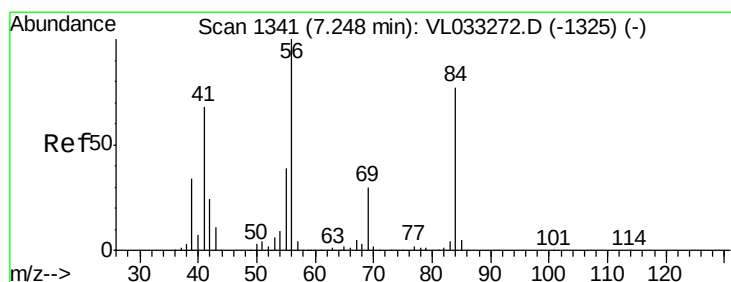
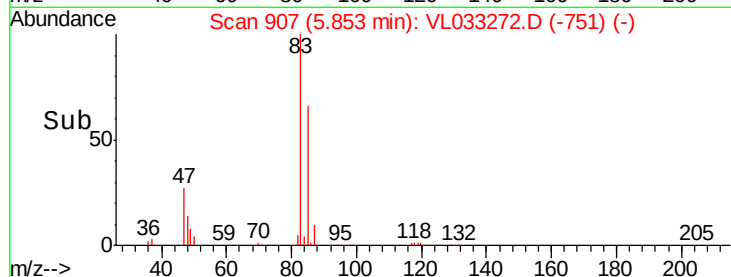
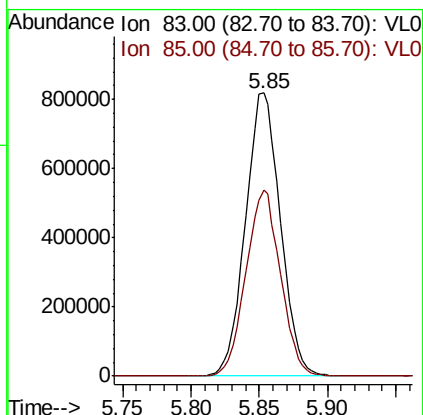
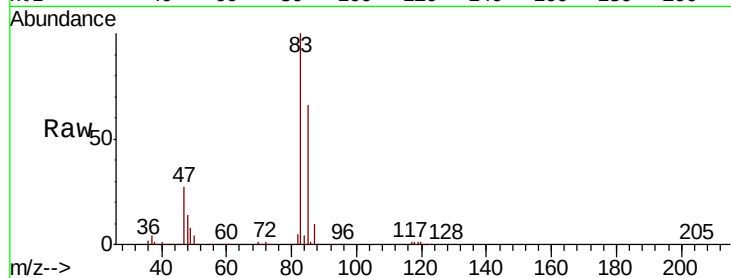
#29
Chloroform
Concen: 9.731 ppbv
RT: 5.85 min Scan# 907
Delta R.T. 0.00 min
Lab File: VL033272.D
Acq: 12 Mar 2019 2:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 83 Resp: 1456386
Ion Ratio Lower Upper
83 100
85 65.6 52.5 78.7

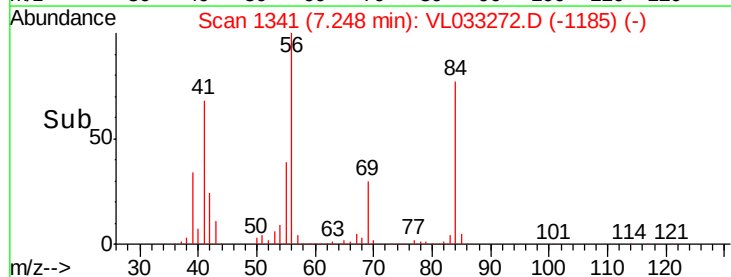
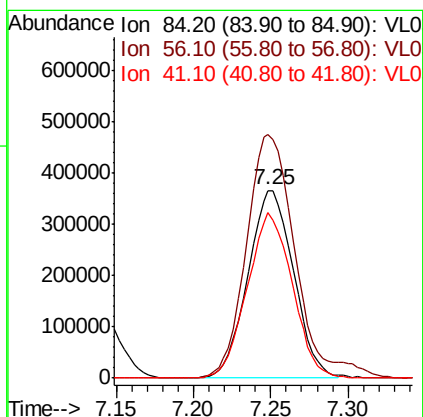
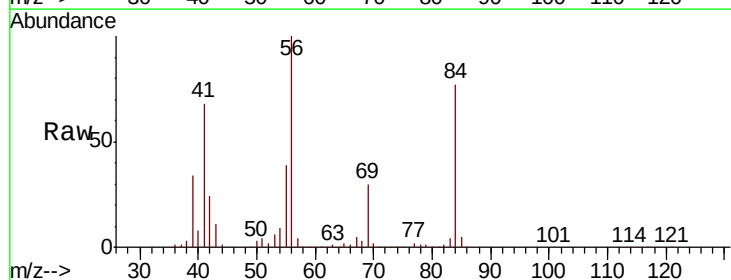
Manual Integrations
APPROVED

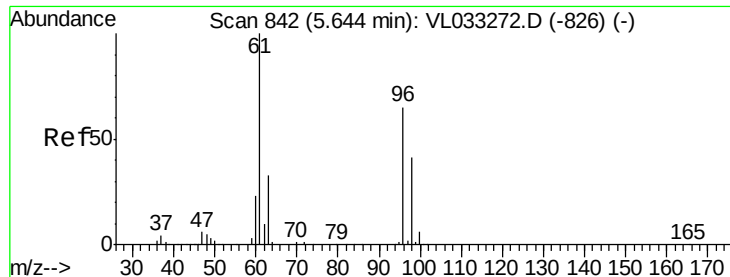
MMDadoda
3/14/2019 5:05:35 AM



#30
Cyclohexane
Concen: 10.114 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VL033272.D
Acq: 12 Mar 2019 2:18

Tgt Ion: 84 Resp: 747740
Ion Ratio Lower Upper
84 100
56 140.1 112.0 168.0
41 87.3 69.9 104.9





#31

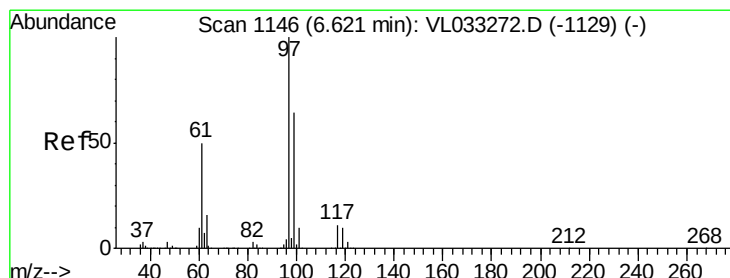
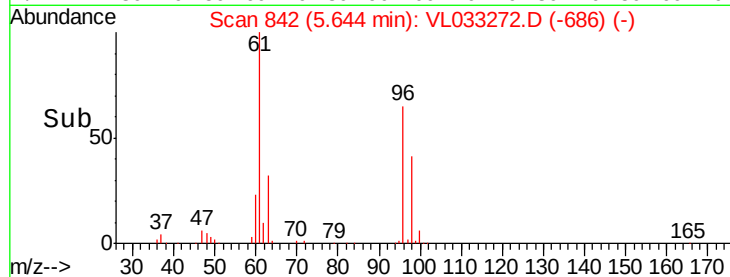
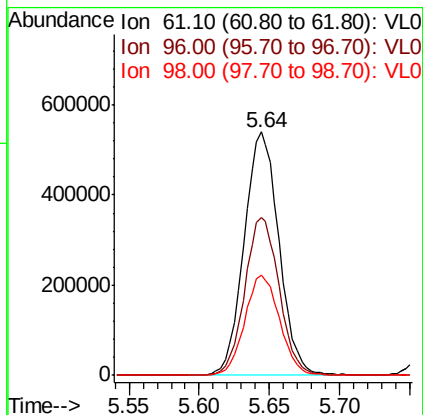
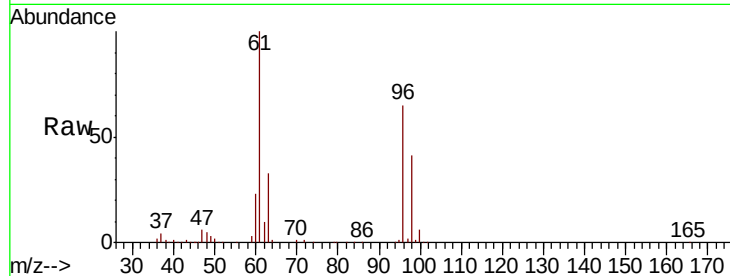
cis-1,2-Dichloroethene
 Concen: 10.039 ppbv
 RT: 5.64 min Scan# 842
 Delta R.T. 0.00 min
 Lab File: VL033272.D
 Acq: 12 Mar 2019 2:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion	Ratio	Resp	Lower	Upper
61	100	933278		
96	64.8	51.8	77.8	
98	41.1	32.9	49.3	

Manual Integrations
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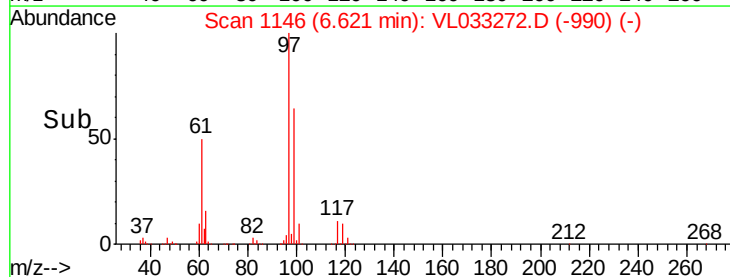
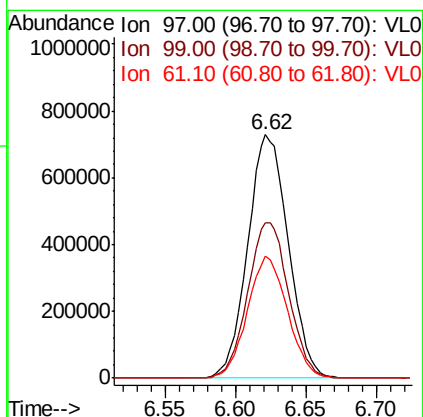
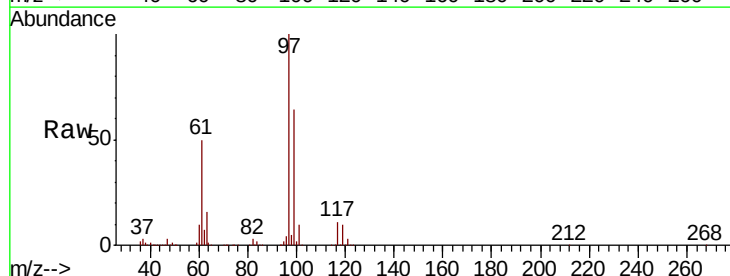
MMDadoda
 3/14/2019 5:05:35 AM

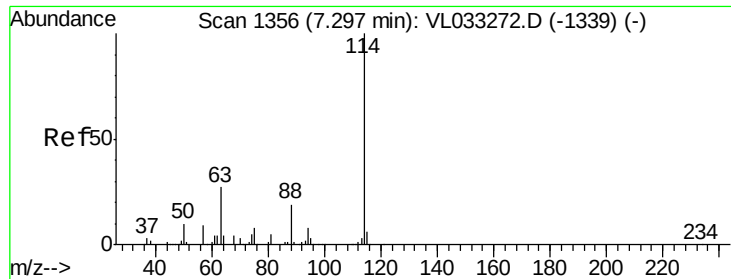


#32

1,1,1-Trichloroethane
 Concen: 10.392 ppbv
 RT: 6.62 min Scan# 1146
 Delta R.T. 0.00 min
 Lab File: VL033272.D
 Acq: 12 Mar 2019 2:18

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	1466363		
99	64.6	51.7	77.5	
61	49.6	39.7	59.5	





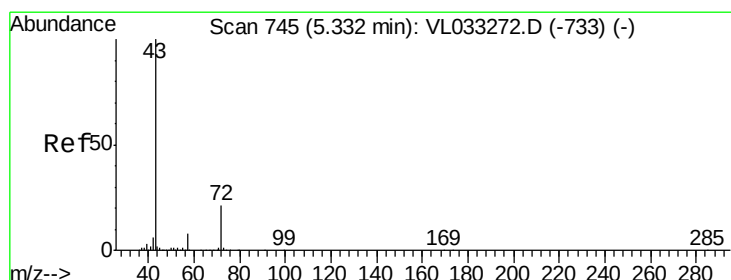
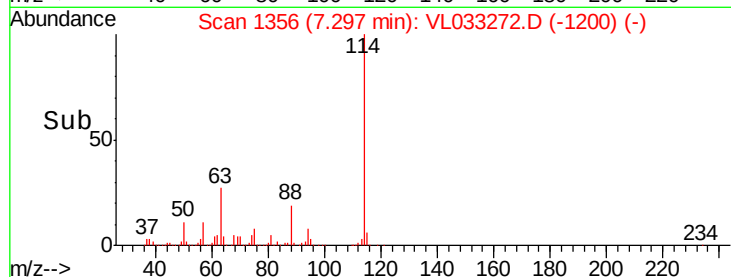
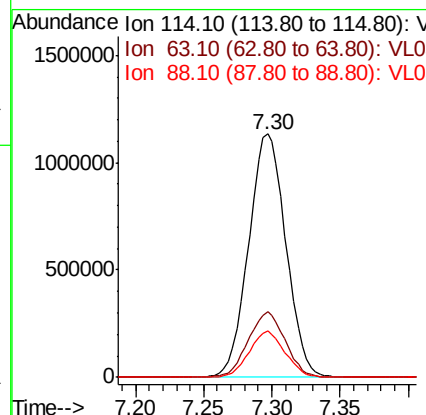
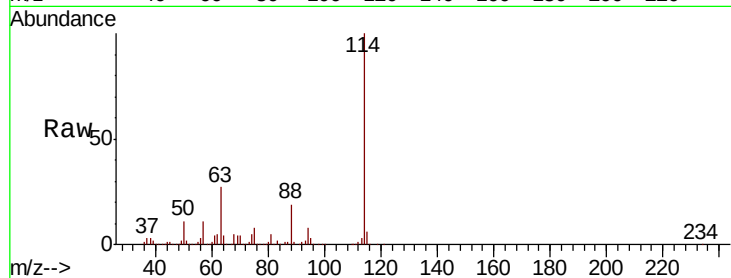
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. 0.00 min
 Lab File: VL033272.D
 Acq: 12 Mar 2019 2:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.9	21.5	32.3
88	18.3	14.6	22.0

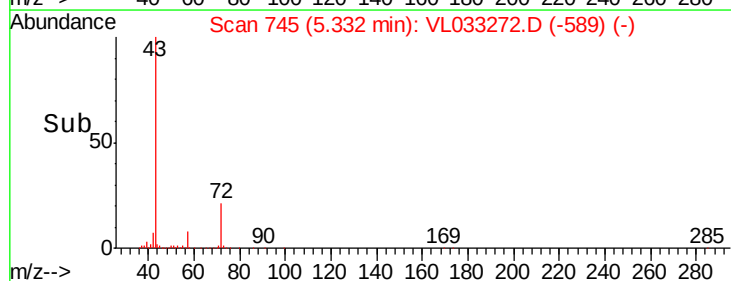
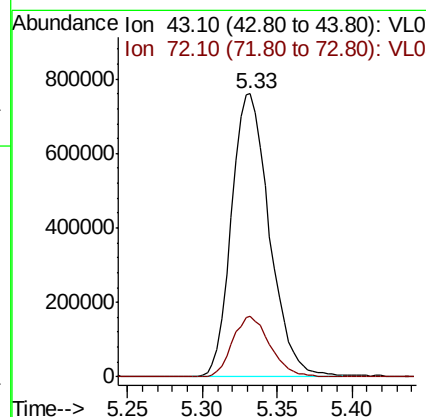
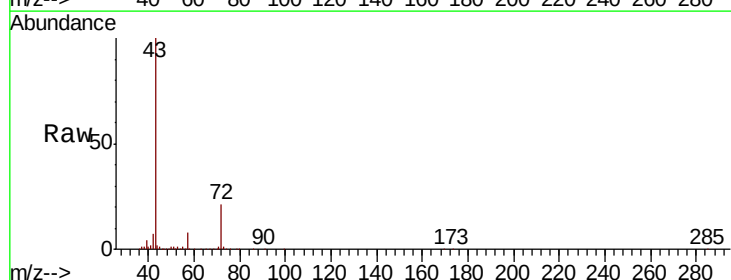
Manual Integrations
 APPROVED

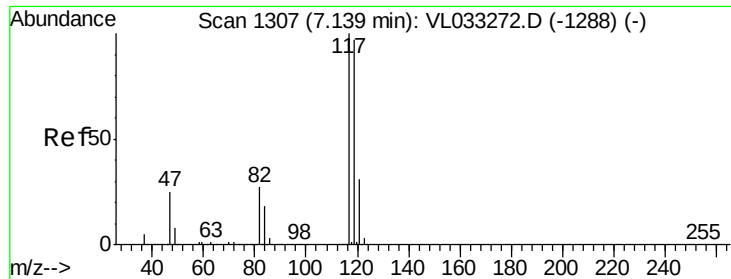
MMDadoda
 3/14/2019 5:05:35 AM



#34
 2-Butanone
 Concen: 10.042 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. 0.00 min
 Lab File: VL033272.D
 Acq: 12 Mar 2019 2:18

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.3	17.0	25.6





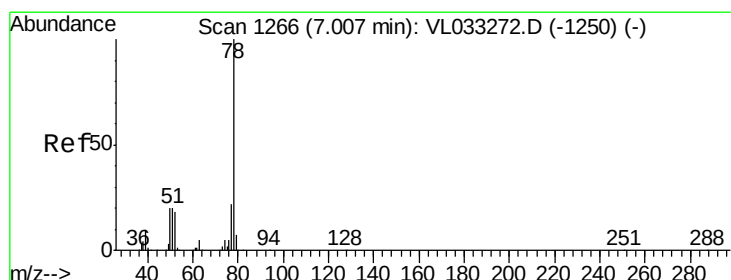
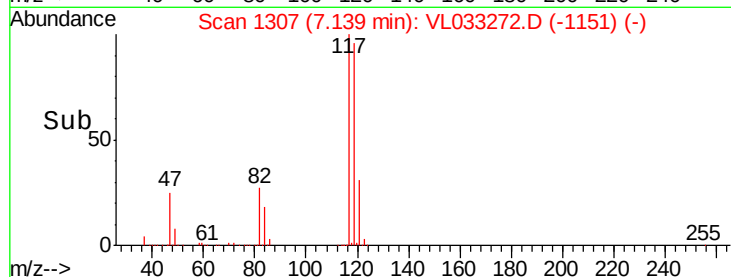
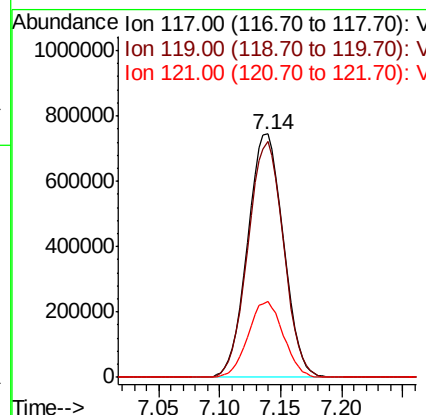
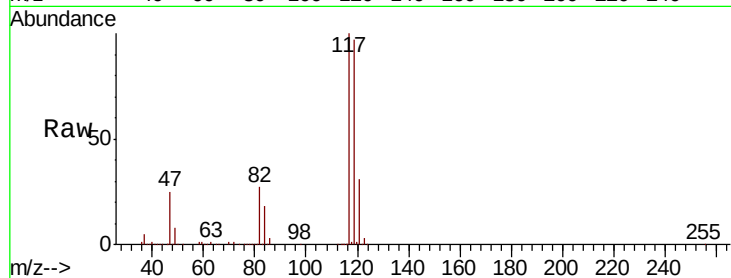
#35
Carbon Tetrachloride
Concen: 10.256 ppbv
RT: 7.14 min Scan# 1307
Delta R.T. 0.00 min
Lab File: VL033272.D
Acq: 12 Mar 2019 2:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 117 Resp: 1508624
Ion Ratio Lower Upper
117 100
119 96.7 77.4 116.0
121 31.1 24.9 37.3

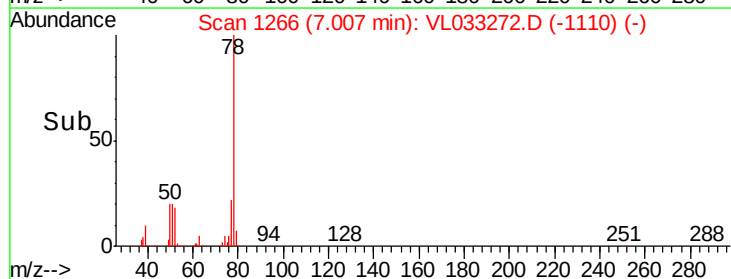
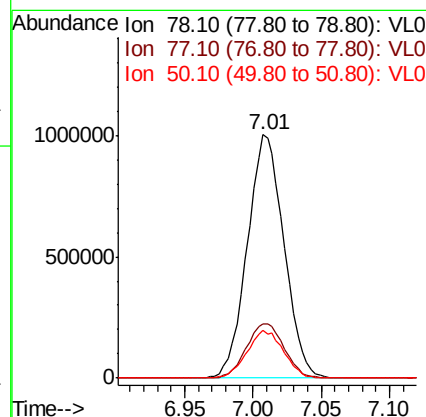
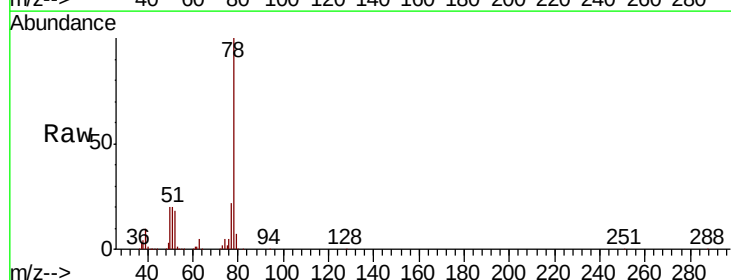
Manual Integrations
APPROVED

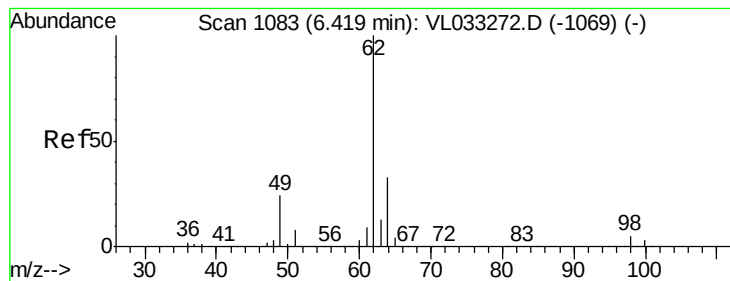
MMDadoda
3/14/2019 5:05:35 AM



#36
Benzene
Concen: 9.832 ppbv
RT: 7.01 min Scan# 1266
Delta R.T. 0.00 min
Lab File: VL033272.D
Acq: 12 Mar 2019 2:18

Tgt Ion: 78 Resp: 1866548
Ion Ratio Lower Upper
78 100
77 22.1 17.7 26.5
50 19.6 15.7 23.5





#37

1,2-Dichloroethane

Concen: 9.278 ppbv

RT: 6.42 min Scan# 1083

Delta R.T. 0.00 min

Lab File: VL033272.D

Acq: 12 Mar 2019 2:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 62 Resp: 1124998

Ion Ratio Lower Upper

62 100

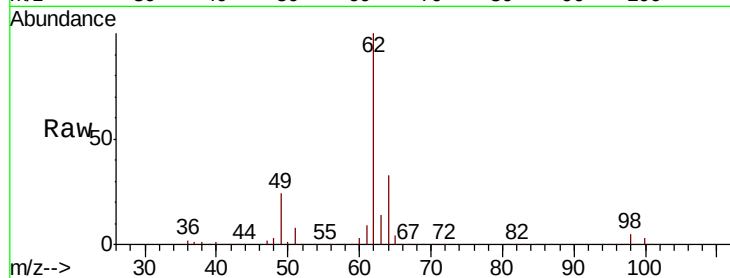
98 5.6 4.5 6.7

Manual Integrations

APPROVED

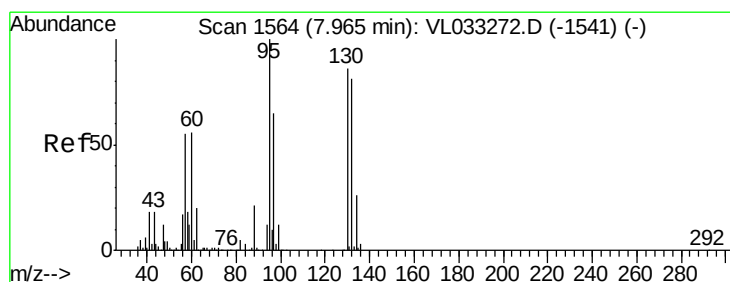
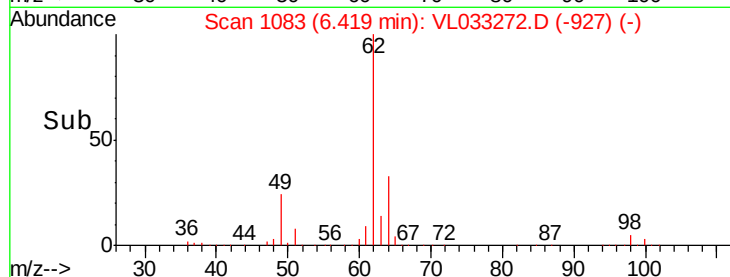
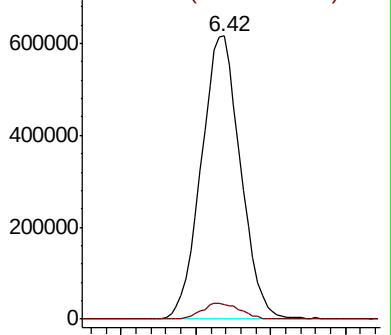
MMDadoda

3/14/2019 5:05:35 AM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 9.791 ppbv

RT: 7.97 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VL033272.D

Acq: 12 Mar 2019 2:18

Tgt Ion: 130 Resp: 703243

Ion Ratio Lower Upper

130 100

95 116.6 93.3 139.9

132 94.3 75.4 113.2

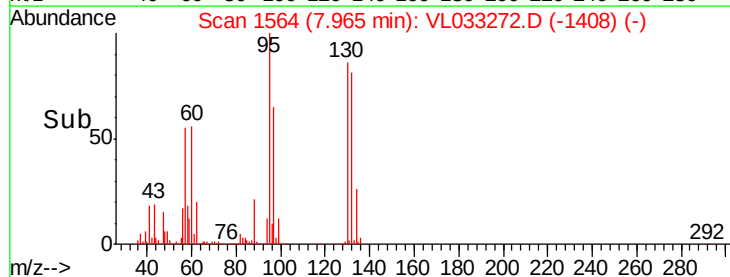
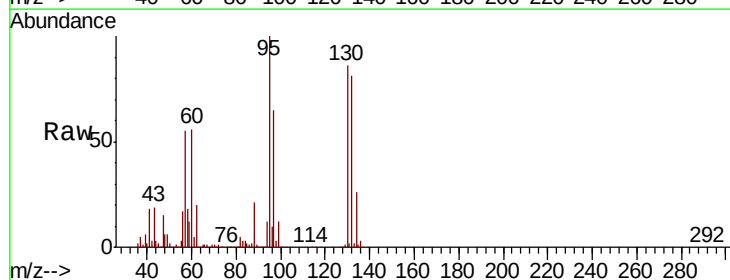
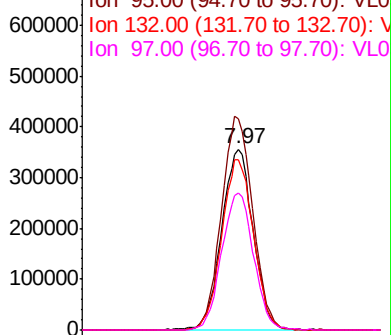
97 75.8 60.6 91.0

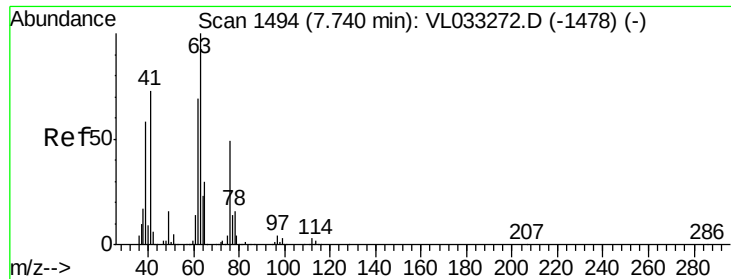
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





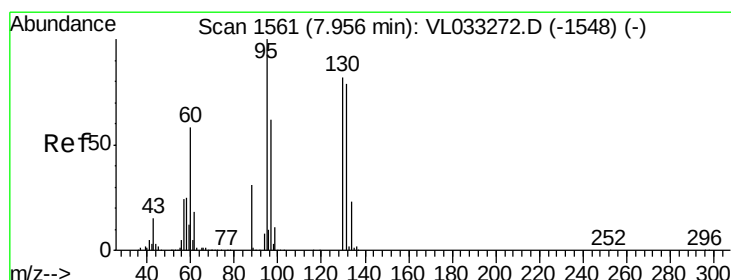
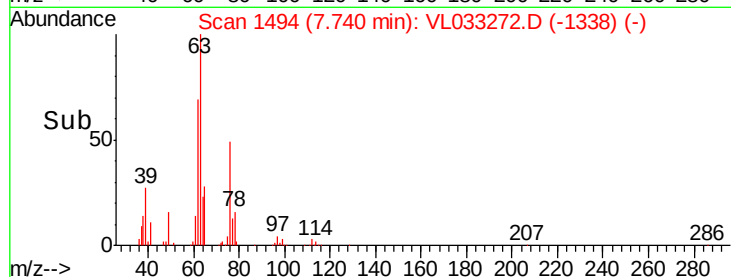
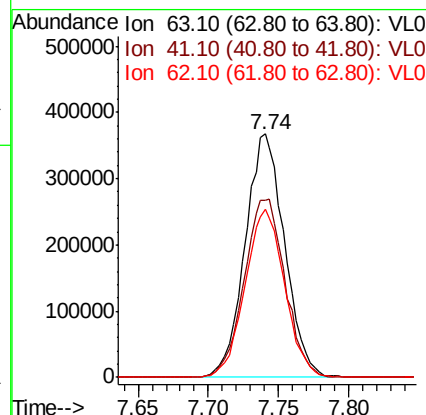
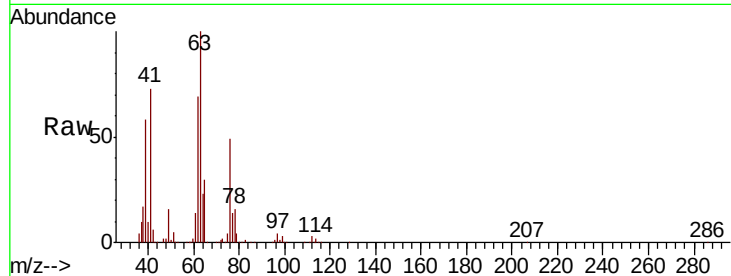
#39
 1,2-Dichloropropane
 Concen: 9.894 ppbv
 RT: 7.74 min Scan# 1494
 Delta R.T. 0.00 min
 Lab File: VL033272.D
 Acq: 12 Mar 2019 2:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion	Ratio	Resp	Lower	Upper
63	100	718569		
41	72.9	58.3	87.5	
62	69.1	55.3	82.9	

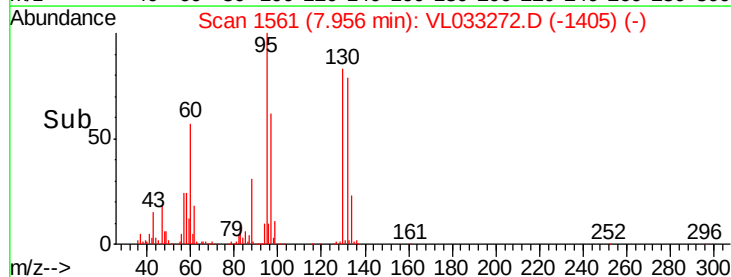
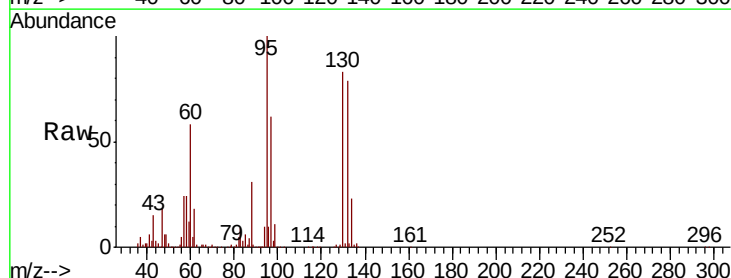
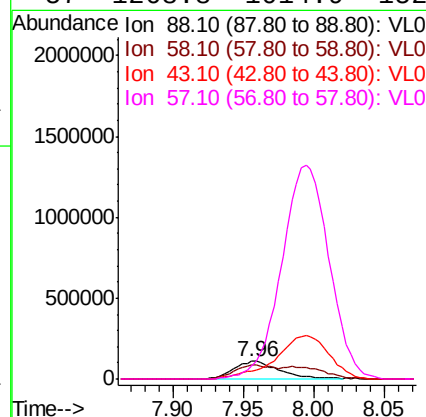
Manual Integrations
 APPROVED

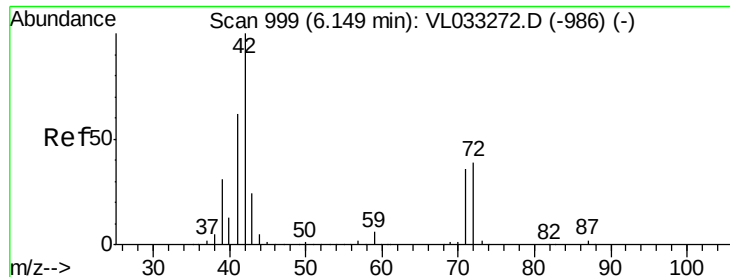
MMDadoda
 3/14/2019 5:05:35 AM



#40
 1,4-Dioxane
 Concen: 9.192 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. 0.00 min
 Lab File: VL033272.D
 Acq: 12 Mar 2019 2:18

Tgt Ion	Ratio	Resp	Lower	Upper
88	100	244776		
58	133.4	107.0	160.6	
43	290.4	230.2	345.4	
57	1268.8	1014.9	1522.3	





#41

Tetrahydrofuran

Concen: 10.181 ppbv

RT: 6.15 min Scan# 999

Delta R.T. 0.00 min

Lab File: VL033272.D

Acq: 12 Mar 2019 2:18

Instrument :

MSVOA_L

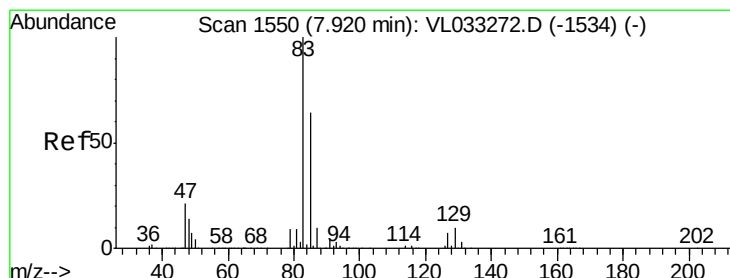
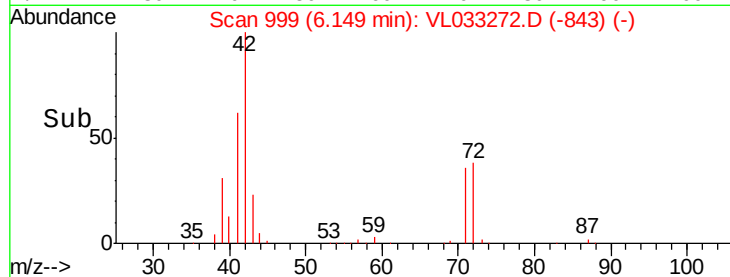
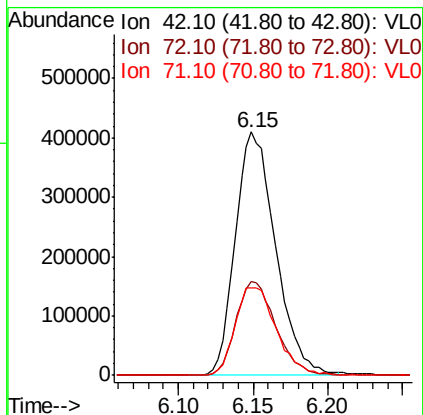
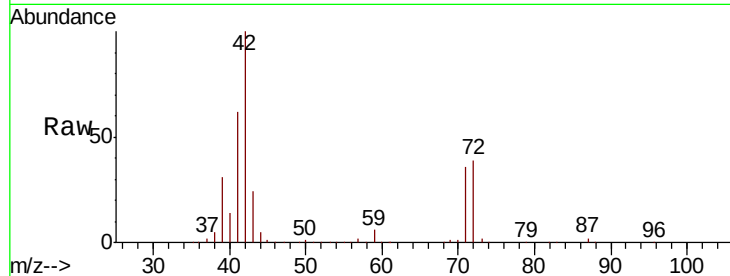
ClientSampled :

VSTDICCC010

Tgt Ion:	42	Resp:	767085
Ion Ratio		Lower	Upper
42	100		
72	38.4	30.6	46.0
71	37.3	29.7	44.5

Manual Integrations
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MMDadoda
3/14/2019 5:05:35 AM



#42

Bromodichloromethane

Concen: 9.961 ppbv

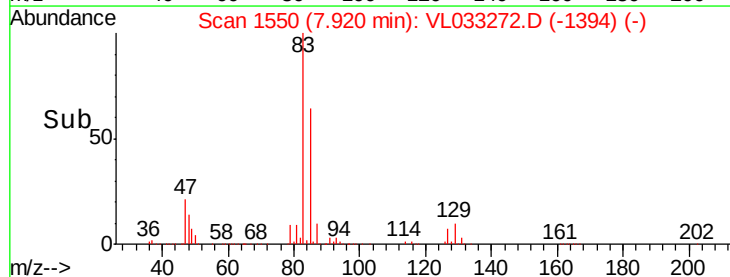
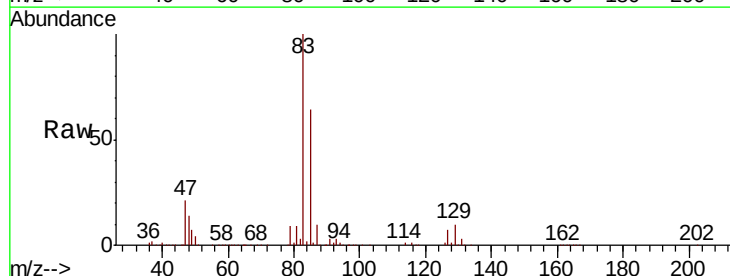
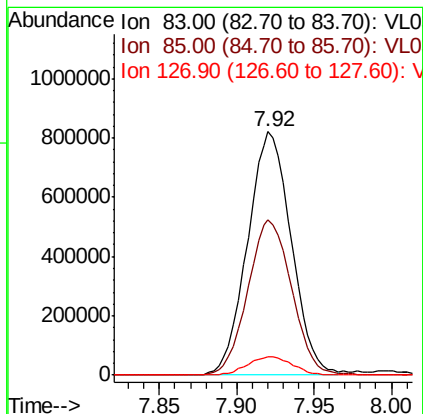
RT: 7.92 min Scan# 1550

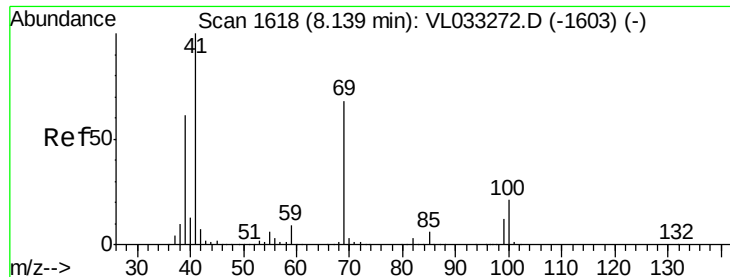
Delta R.T. 0.00 min

Lab File: VL033272.D

Acq: 12 Mar 2019 2:18

Tgt Ion:	83	Resp:	1611044
Ion Ratio		Lower	Upper
83	100		
85	63.7	51.0	76.4
127	7.5	6.0	9.0





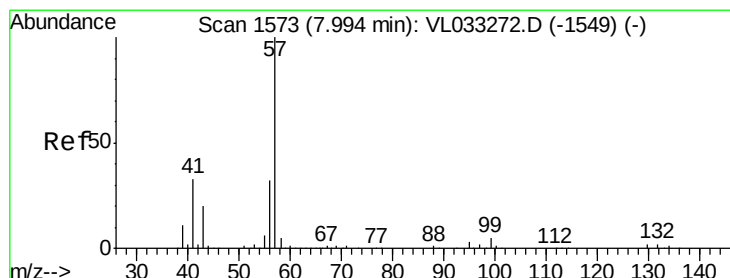
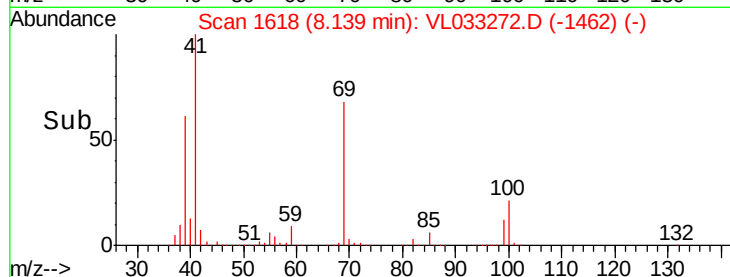
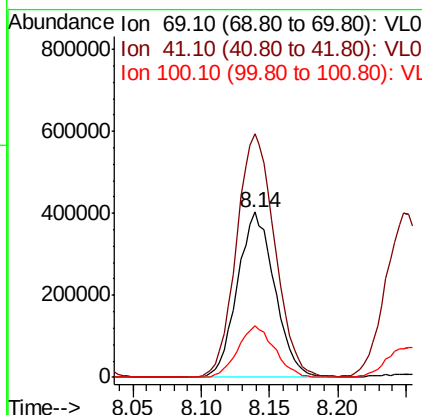
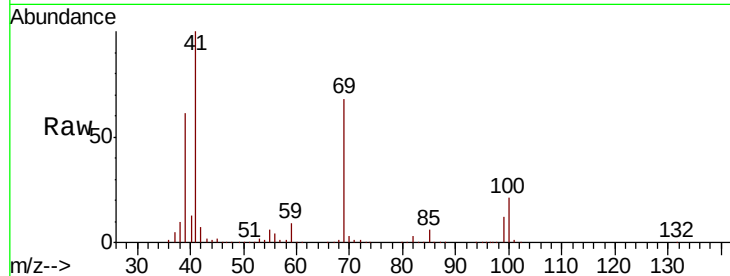
#43
Methyl Methacrylate
Concen: 10.316 ppbv
RT: 8.14 min Scan# 1618
Delta R.T. 0.00 min
Lab File: VL033272.D
Acq: 12 Mar 2019 2:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion	Ratio	Lower	Upper
69	100		
41	151.2	121.0	181.4
100	30.6	24.4	36.6

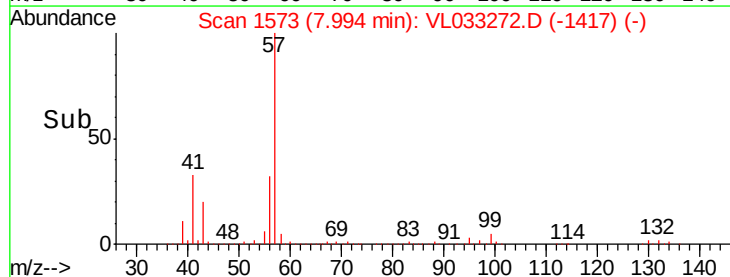
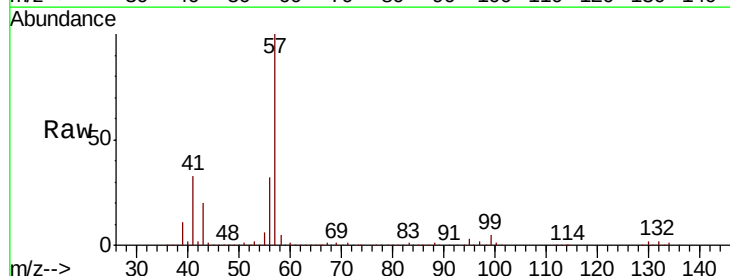
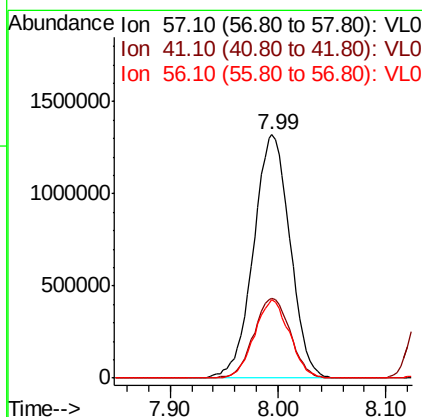
Manual Integrations
APPROVED

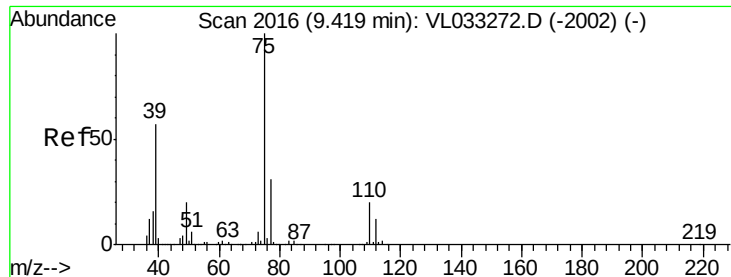
MMDadoda
3/14/2019 5:05:35 AM



#44
2,2,4-Trimethylpentane
Concen: 9.472 ppbv
RT: 7.99 min Scan# 1573
Delta R.T. 0.00 min
Lab File: VL033272.D
Acq: 12 Mar 2019 2:18

Tgt Ion	Ratio	Lower	Upper
57	100		
41	32.7	26.2	39.2
56	31.0	24.8	37.2





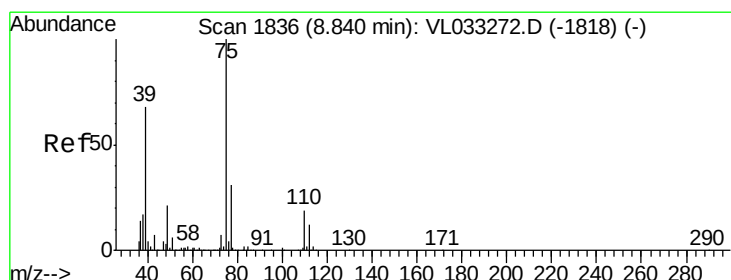
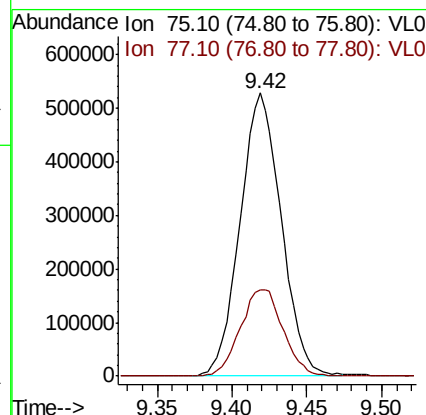
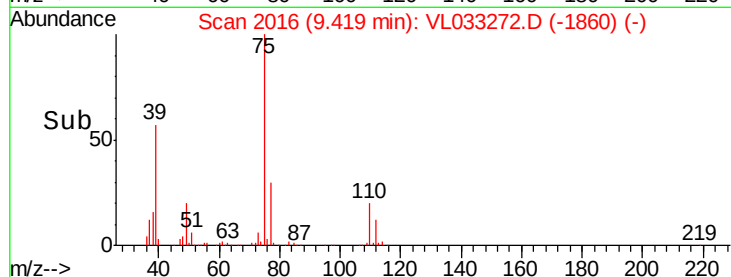
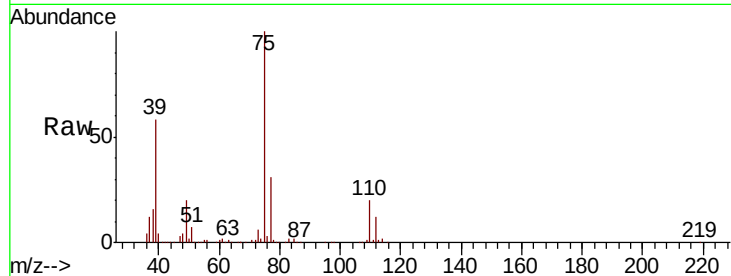
#45
t-1,3-Dichloropropene
Concen: 11.218 ppbv
RT: 9.42 min Scan# 2016
Delta R.T. 0.00 min
Lab File: VL033272.D
Acq: 12 Mar 2019 2:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 75 Resp: 1008572
Ion Ratio Lower Upper
75 100
77 30.5 24.4 36.6

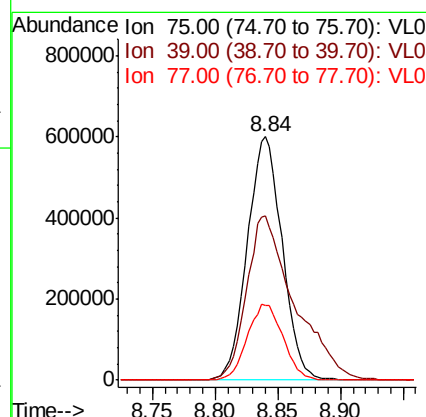
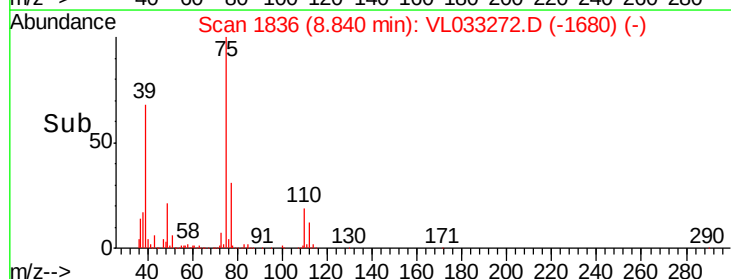
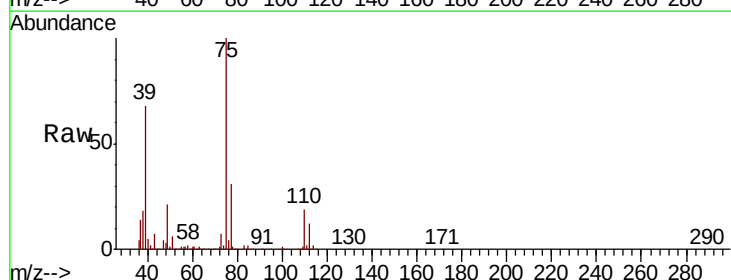
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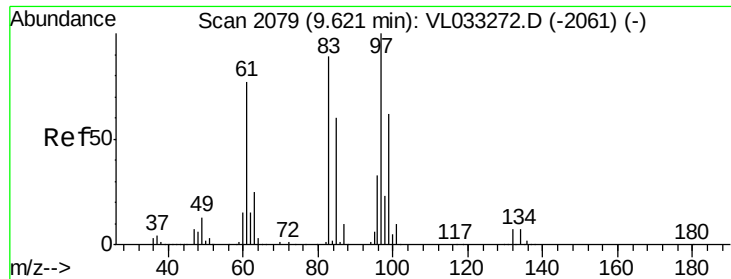
MMDadoda
3/14/2019 5:05:35 AM



#46
cis-1,3-Dichloropropene
Concen: 10.980 ppbv
RT: 8.84 min Scan# 1836
Delta R.T. 0.00 min
Lab File: VL033272.D
Acq: 12 Mar 2019 2:18

Tgt Ion: 75 Resp: 1163268
Ion Ratio Lower Upper
75 100
39 67.7 54.2 81.2
77 30.6 24.5 36.7





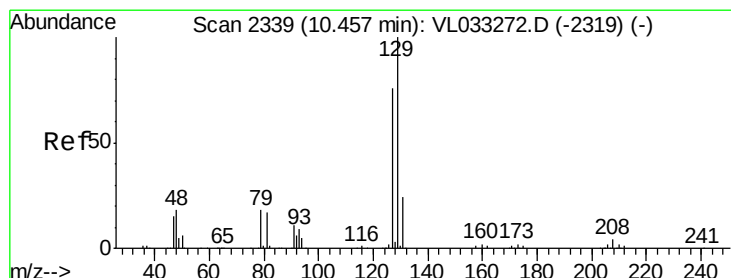
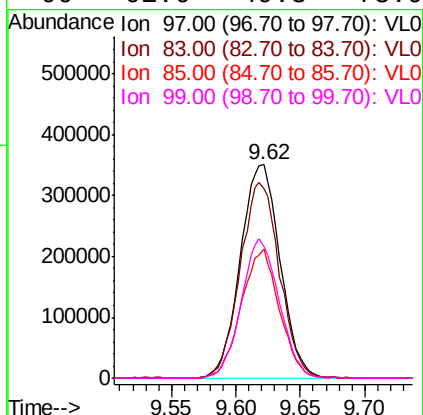
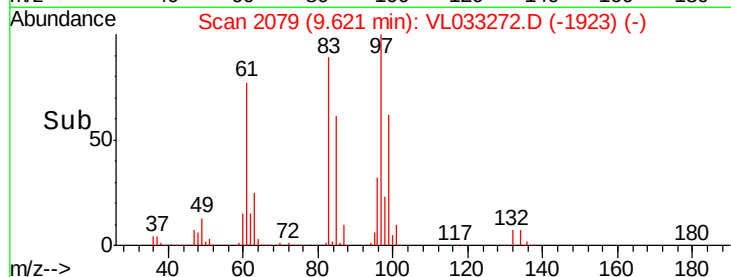
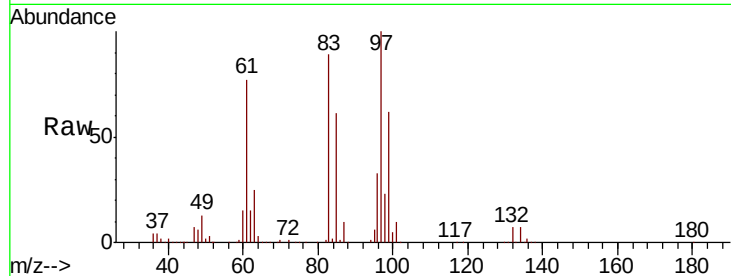
#47
 1,1,2-Trichloroethane
 Concen: 9.691 ppbv
 RT: 9.62 min Scan# 2079
 Delta R.T. 0.00 min
 Lab File: VL033272.D
 Acq: 12 Mar 2019 2:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion	Ratio	Lower	Upper
97	100		
83	88.7	71.0	106.4
85	60.3	48.2	72.4
99	61.6	49.3	73.9

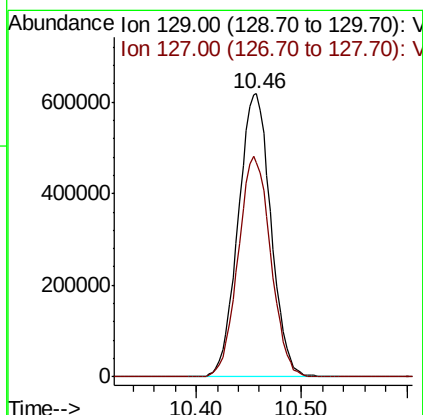
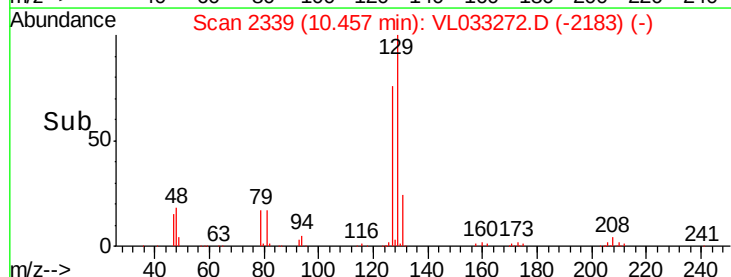
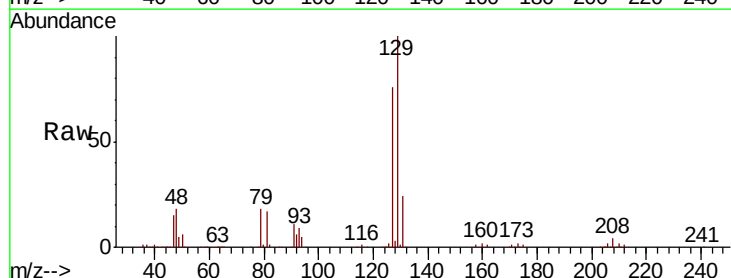
Manual Integrations
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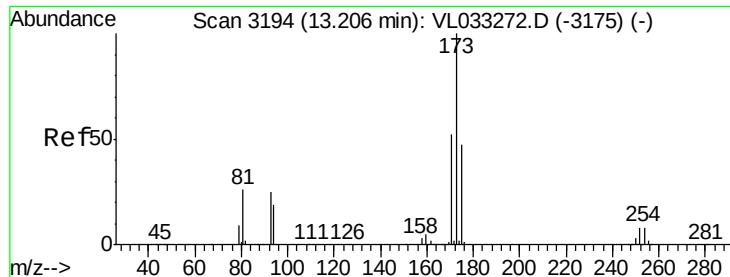
MMDadoda
 3/14/2019 5:05:35 AM



#48
 Dibromochloromethane
 Concen: 10.420 ppbv
 RT: 10.46 min Scan# 2339
 Delta R.T. 0.00 min
 Lab File: VL033272.D
 Acq: 12 Mar 2019 2:18

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.9	116.6





#49

Bromoform

Concen: 9.897 ppbv

RT: 13.21 min Scan# 3194

Delta R.T. 0.00 min

Lab File: VL033272.D

Acq: 12 Mar 2019 2:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:173 Resp: 1135002

Ion Ratio Lower Upper

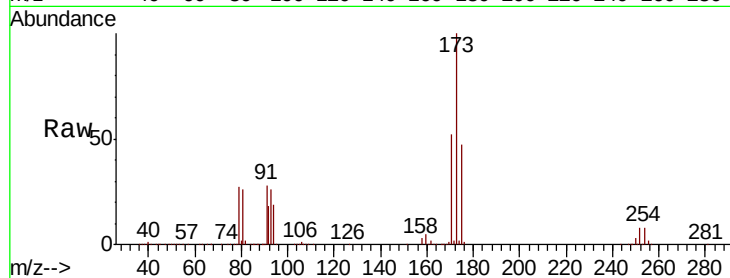
173 100

175 48.8 39.0 58.6

171 51.6 41.2 61.8

Manual Integrations
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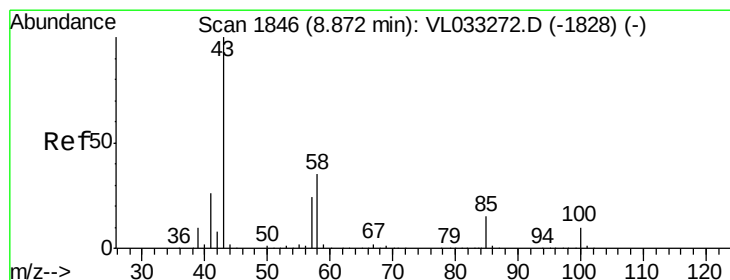
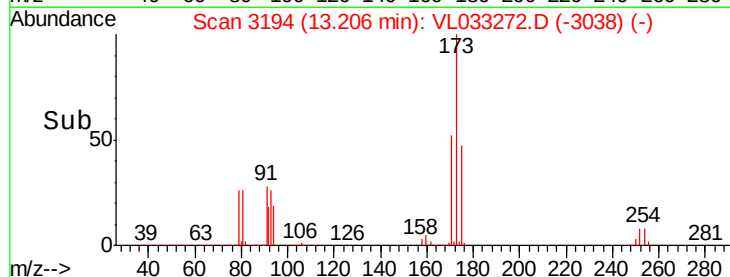
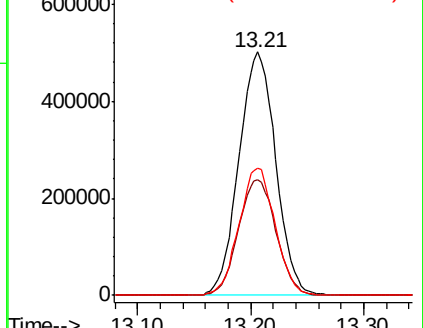
MMDadoda
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.900 ppbv

RT: 8.87 min Scan# 1846

Delta R.T. 0.00 min

Lab File: VL033272.D

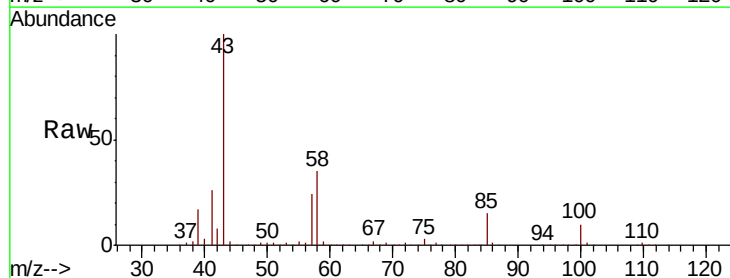
Acq: 12 Mar 2019 2:18

Tgt Ion: 43 Resp: 1942436

Ion Ratio Lower Upper

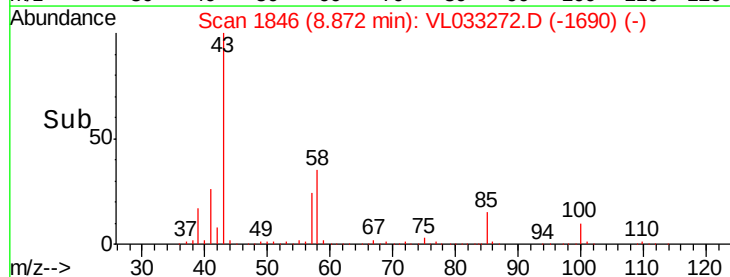
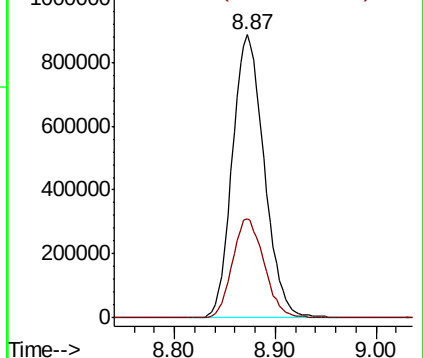
43 100

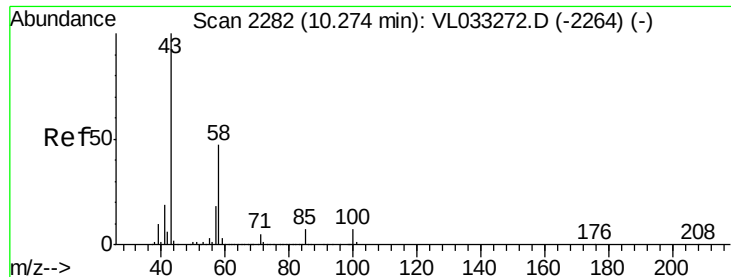
58 34.9 28.0 42.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 10.360 ppbv

RT: 10.27 min Scan# 2282

Delta R.T. 0.00 min

Lab File: VL033272.D

Acq: 12 Mar 2019 2:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 43 Resp: 1515430

Ion Ratio Lower Upper

43 100

58 47.7 38.1 57.1

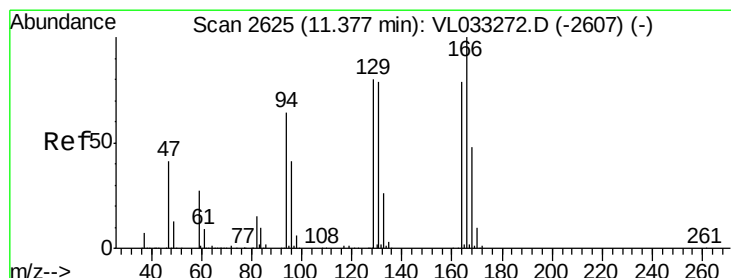
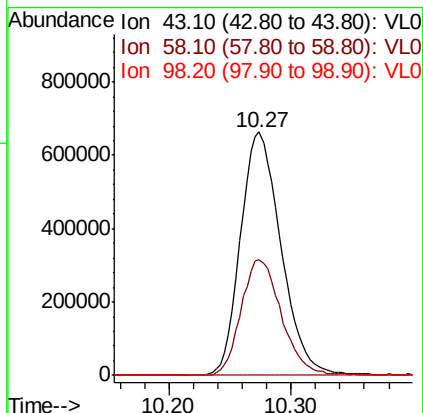
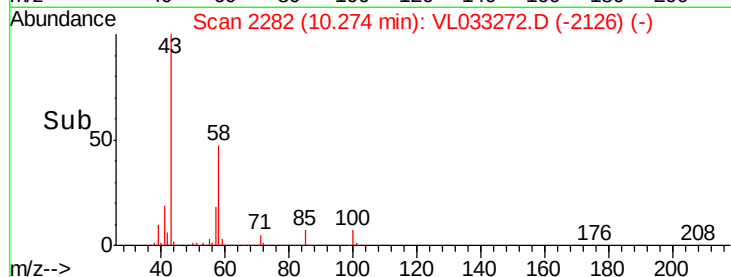
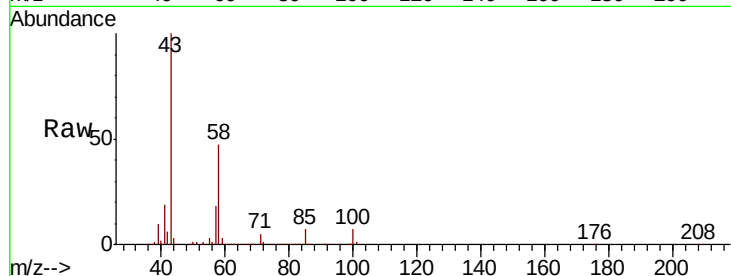
98 0.2 0.1 0.1#

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#52

Tetrachloroethene

Concen: 10.023 ppbv

RT: 11.38 min Scan# 2625

Delta R.T. 0.00 min

Lab File: VL033272.D

Acq: 12 Mar 2019 2:18

Tgt Ion: 164 Resp: 695503

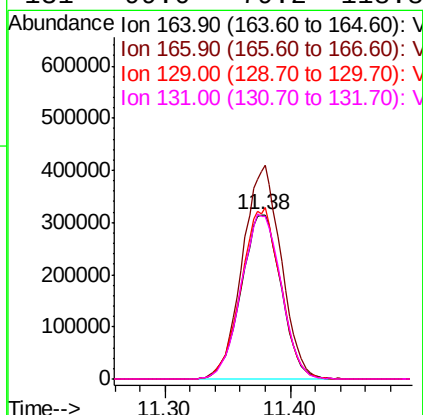
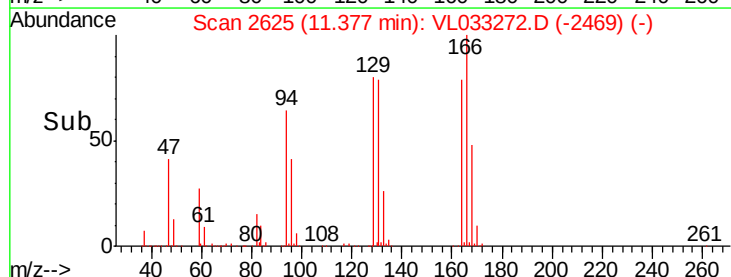
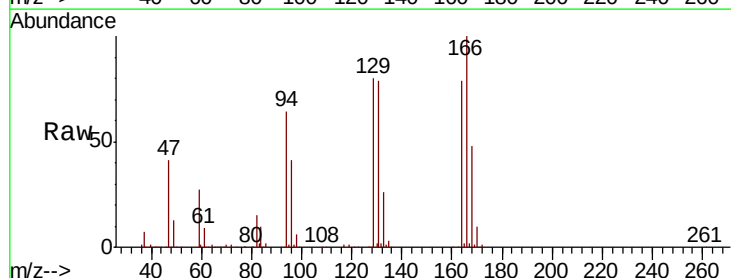
Ion Ratio Lower Upper

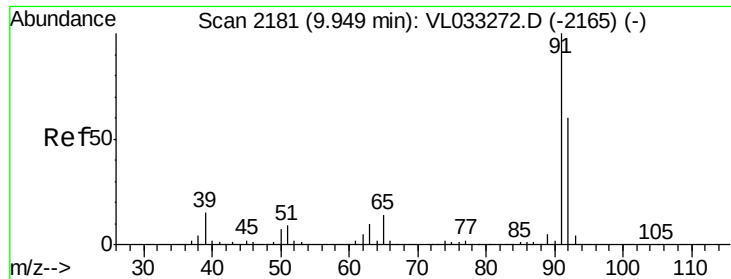
164 100

166 126.0 100.8 151.2

129 100.8 80.6 121.0

131 99.0 79.2 118.8





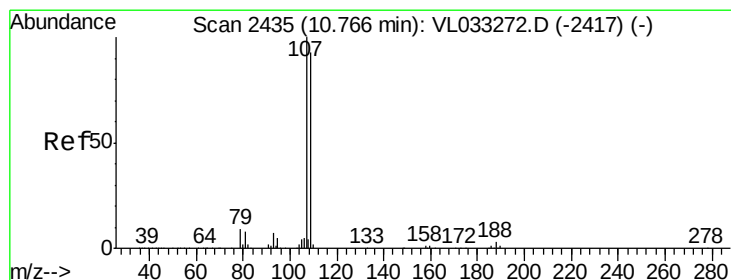
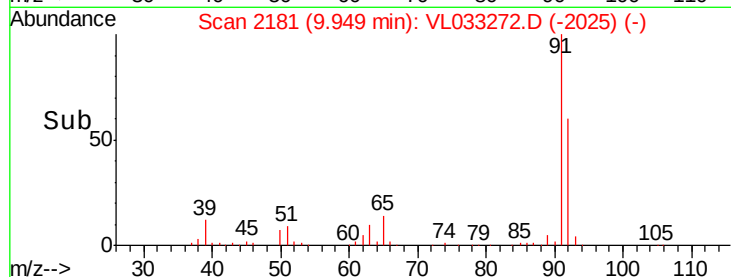
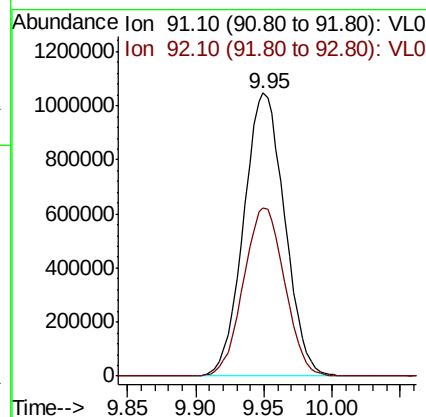
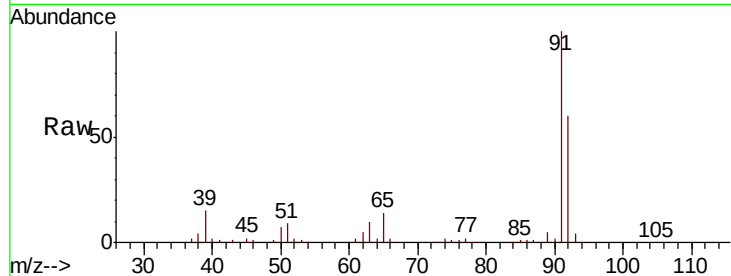
#53
Toluene
Concen: 10.295 ppbv
RT: 9.95 min Scan# 2181
Delta R.T. 0.00 min
Lab File: VL033272.D
Acq: 12 Mar 2019 2:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 2183714
Ion Ratio Lower Upper
91 100
92 59.9 47.8 71.8

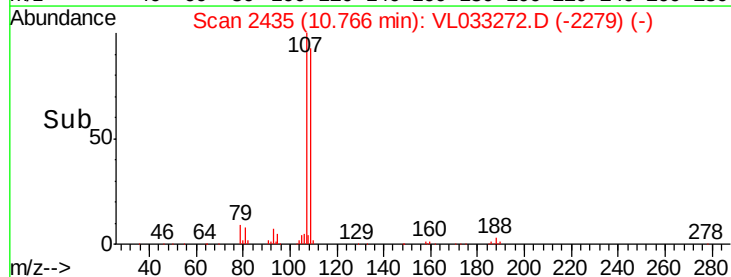
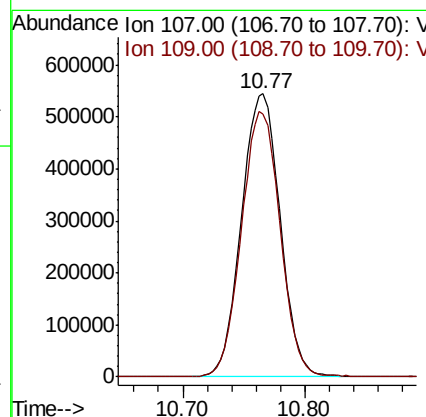
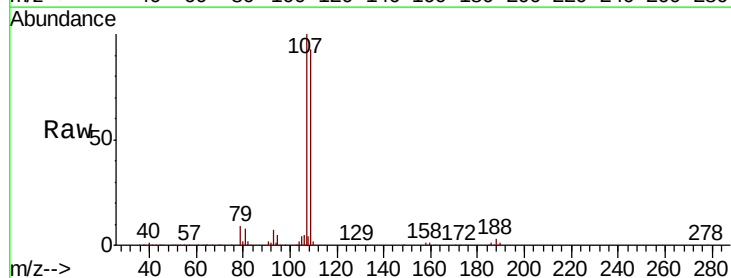
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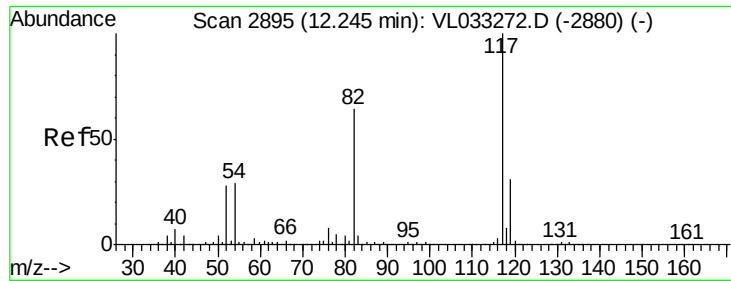
MMDadoda
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#54
1,2-Dibromoethane
Concen: 9.725 ppbv
RT: 10.77 min Scan# 2435
Delta R.T. 0.00 min
Lab File: VL033272.D
Acq: 12 Mar 2019 2:18

Tgt Ion: 107 Resp: 1189007
Ion Ratio Lower Upper
107 100
109 92.7 74.2 111.2





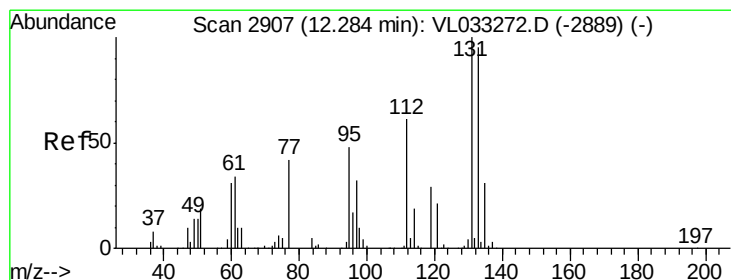
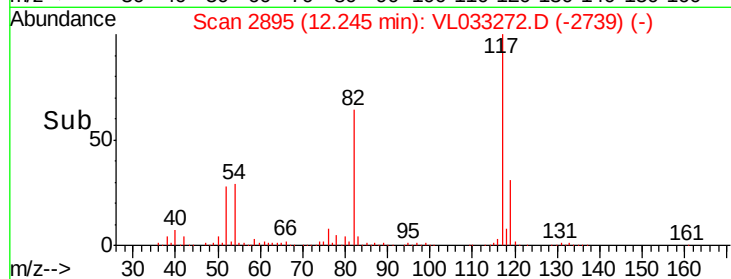
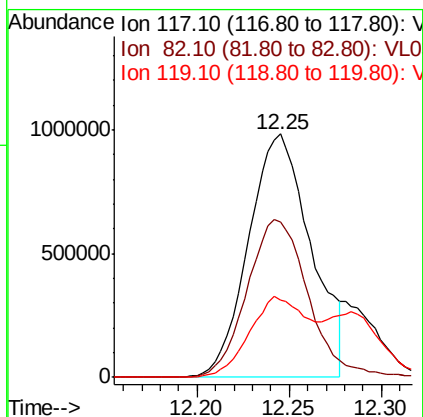
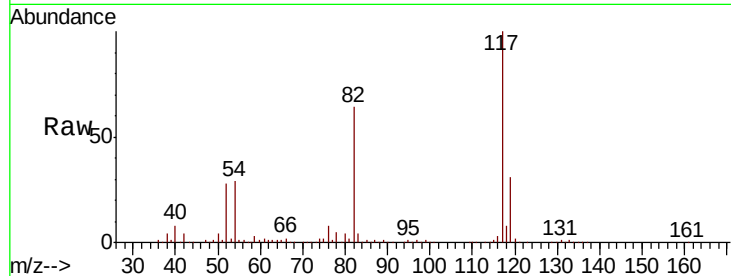
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.25 min Scan# 2895
Delta R.T. 0.00 min
Lab File: VL033272.D
Acq: 12 Mar 2019 2:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:117 Resp: 2307026
Ion Ratio Lower Upper
117 100
82 63.9 51.1 76.7
119 54.5 43.6 65.4

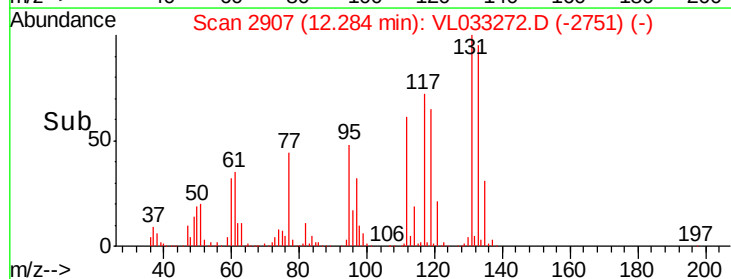
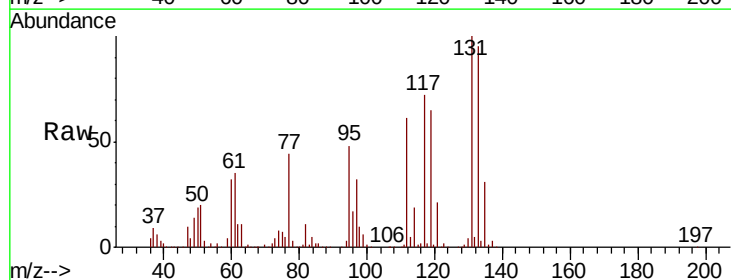
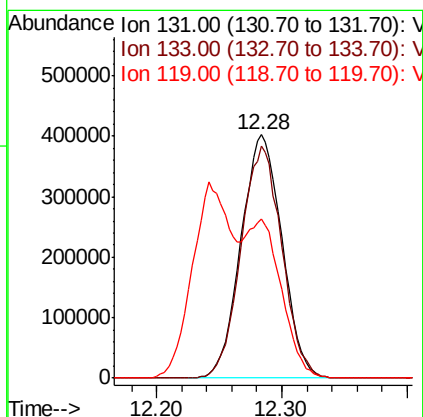
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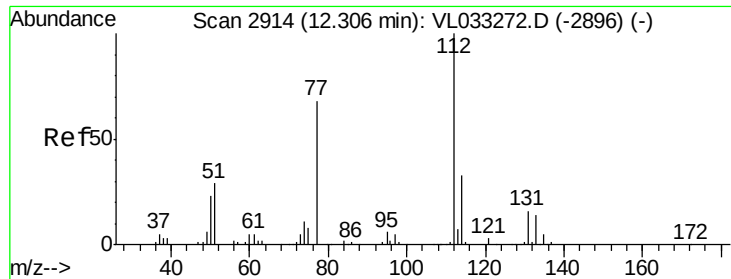
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.455 ppbv
RT: 12.28 min Scan# 2907
Delta R.T. 0.00 min
Lab File: VL033272.D
Acq: 12 Mar 2019 2:18

Tgt Ion:131 Resp: 911782
Ion Ratio Lower Upper
131 100
133 95.3 76.2 114.4
119 137.9 110.3 165.5





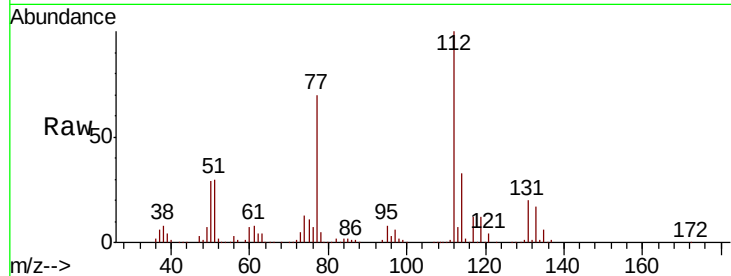
#57
Chlorobenzene
Concen: 9.291 ppbv
RT: 12.31 min Scan# 2914
Delta R.T. 0.00 min
Lab File: VL033272.D
Acq: 12 Mar 2019 2:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

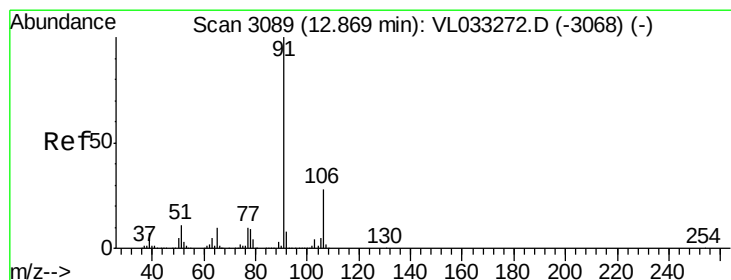
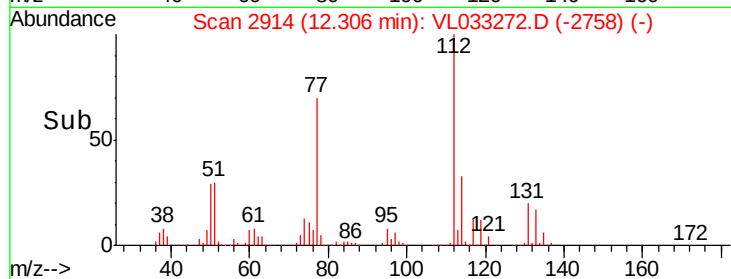
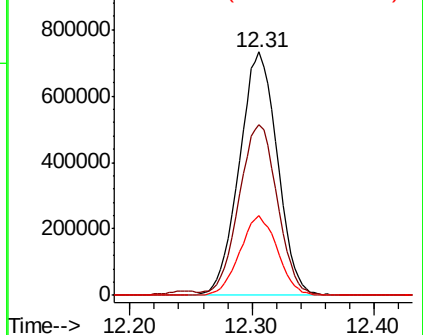
Tgt Ion	Ratio	Lower	Upper
112	100		
77	69.8	55.8	83.8
114	32.8	29.5	36.1

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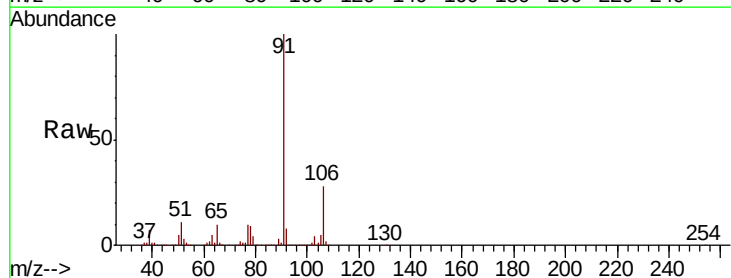


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

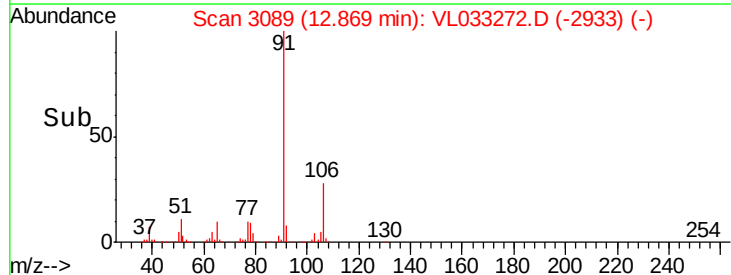
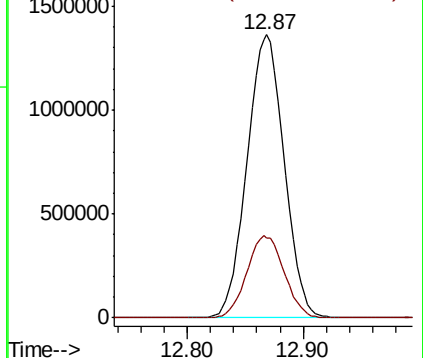


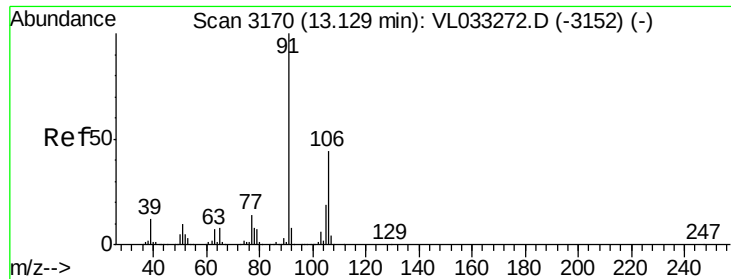
#58
Ethyl Benzene
Concen: 9.691 ppbv
RT: 12.87 min Scan# 3089
Delta R.T. 0.00 min
Lab File: VL033272.D
Acq: 12 Mar 2019 2:18

Tgt Ion	Ratio	Lower	Upper
91	100		
106	28.1	22.5	33.7



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





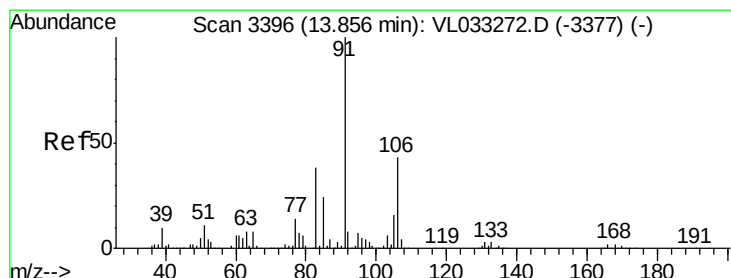
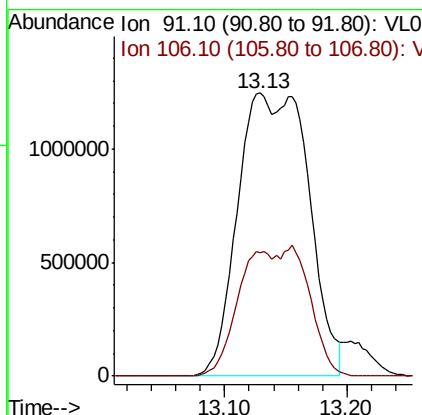
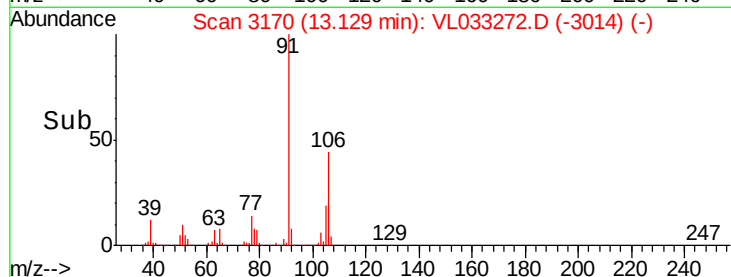
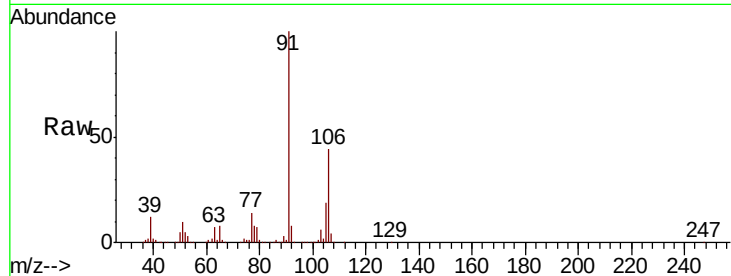
#59
m/p-Xylene
Concen: 17.745 ppbv m
RT: 13.13 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VL033272.D
Acq: 12 Mar 2019 2:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 5021138
Ion Ratio Lower Upper
91 100
106 0.0 35.5 53.3#

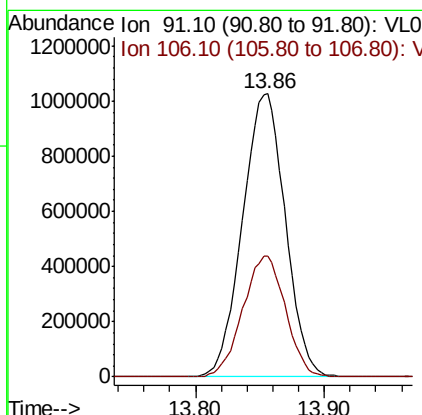
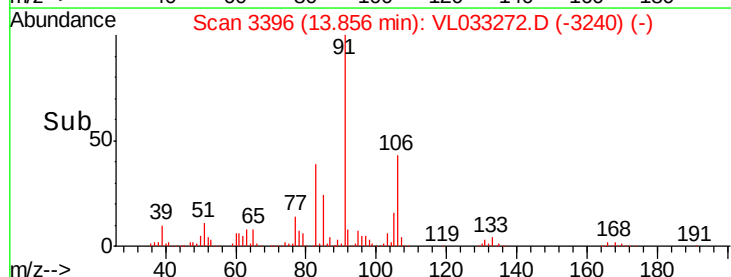
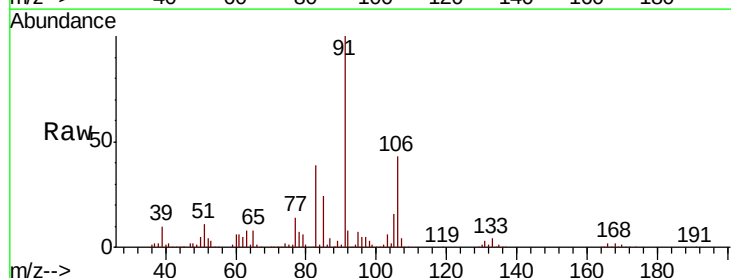
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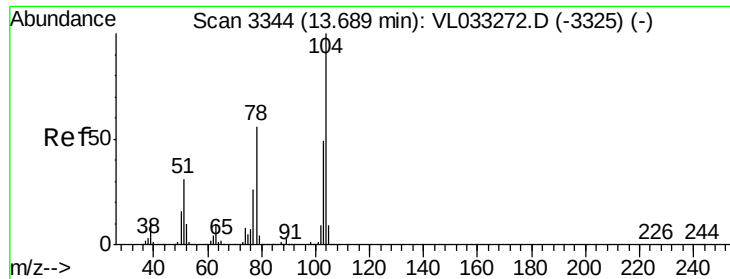
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#60
o-Xylene
Concen: 8.682 ppbv
RT: 13.86 min Scan# 3396
Delta R.T. 0.00 min
Lab File: VL033272.D
Acq: 12 Mar 2019 2:18

Tgt Ion: 91 Resp: 2370866
Ion Ratio Lower Upper
91 100
106 42.5 21.3 63.7





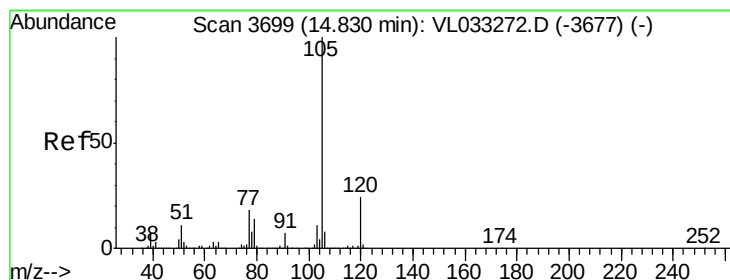
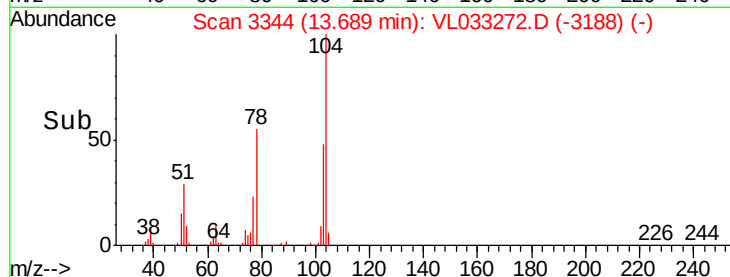
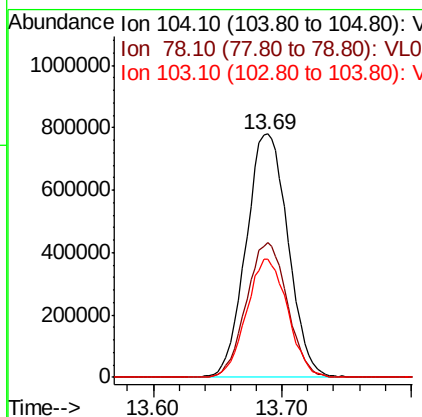
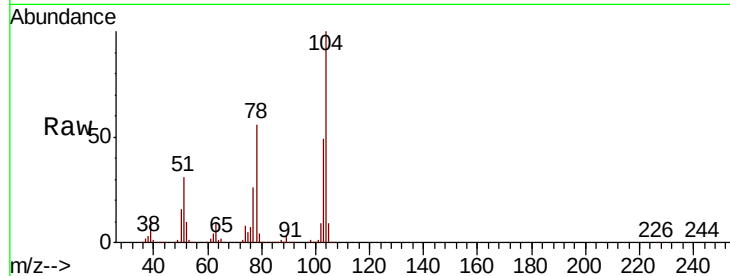
#61
Styrene
Concen: 9.485 ppbv
RT: 13.69 min Scan# 3344
Delta R.T. 0.00 min
Lab File: VL033272.D
Acq: 12 Mar 2019 2:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion	Ratio	Lower	Upper
104	100		
78	54.1	43.3	64.9
103	47.5	38.0	57.0

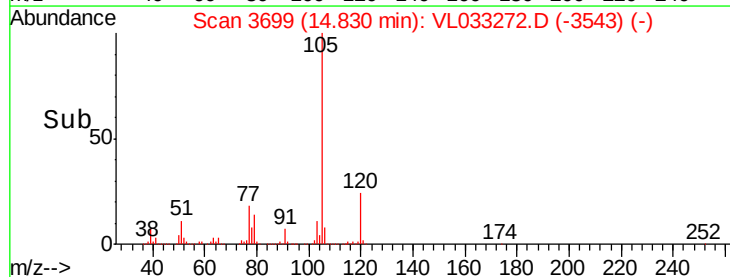
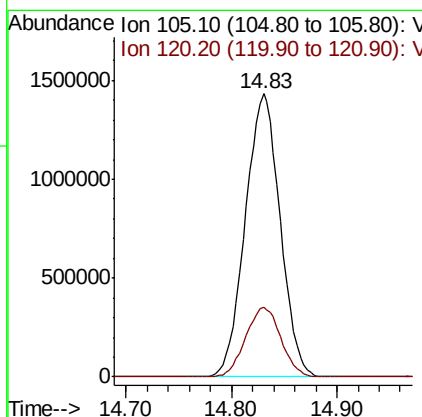
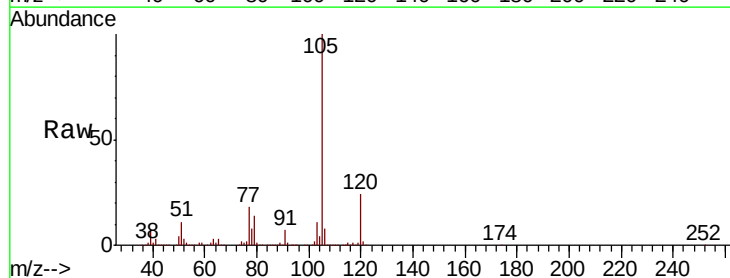
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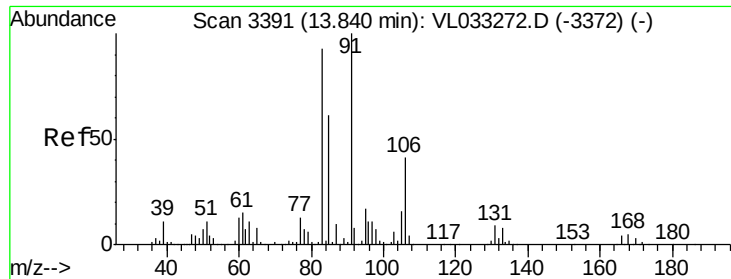
MMDadoda
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#62
Isopropylbenzene
Concen: 9.042 ppbv
RT: 14.83 min Scan# 3699
Delta R.T. 0.00 min
Lab File: VL033272.D
Acq: 12 Mar 2019 2:18

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.0	20.0	30.0





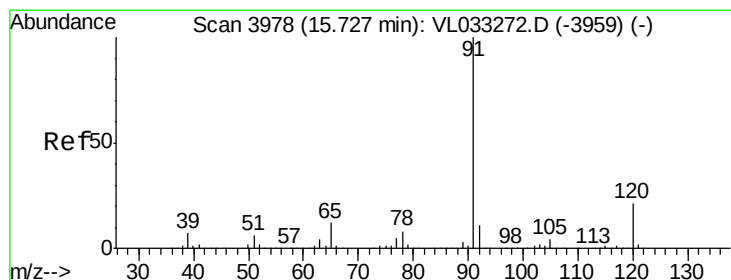
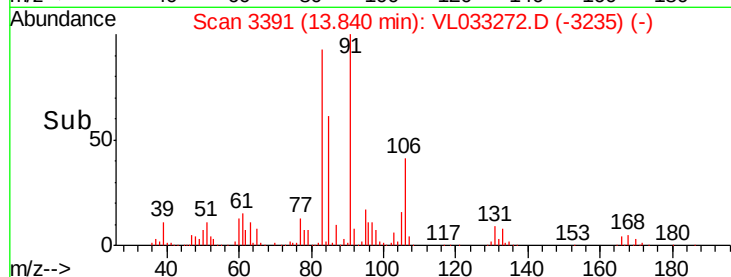
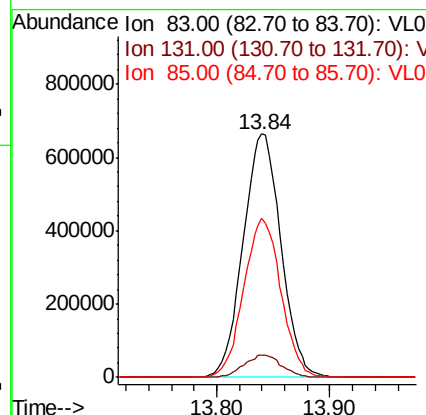
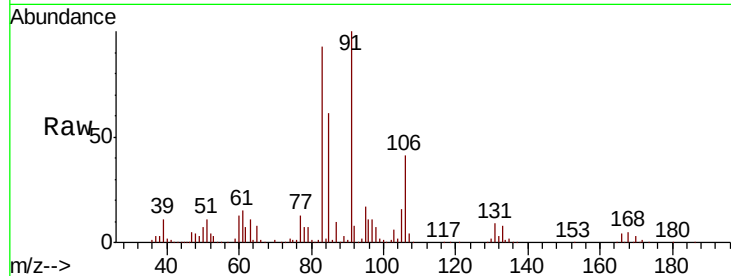
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.792 ppbv
 RT: 13.84 min Scan# 3391
 Delta R.T. 0.00 min
 Lab File: VL033272.D
 Acq: 12 Mar 2019 2:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 83 Resp: 1547550
 Ion Ratio Lower Upper
 83 100
 131 9.1 4.5 13.7
 85 64.4 32.2 96.6

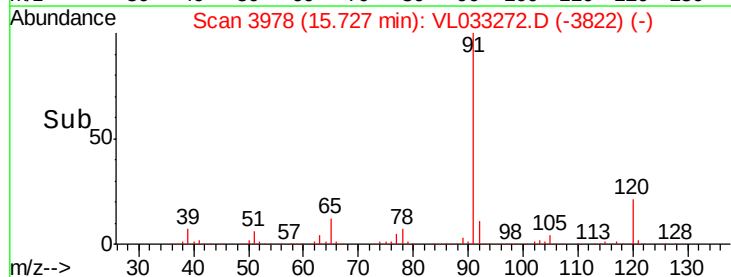
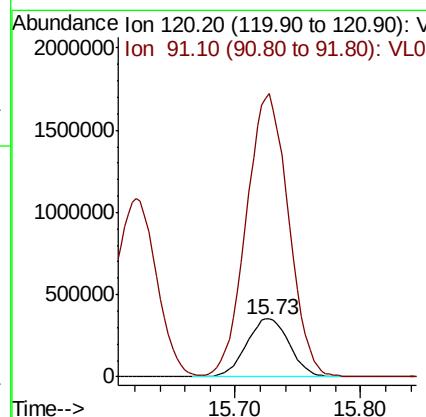
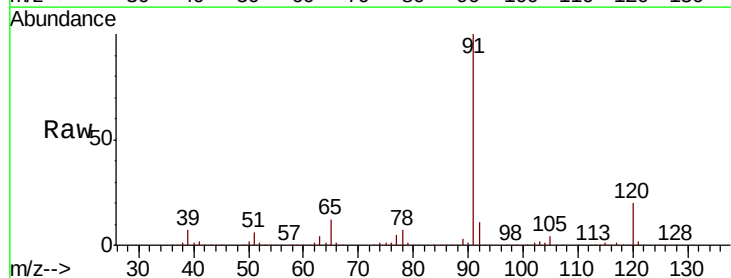
Manual Integrations
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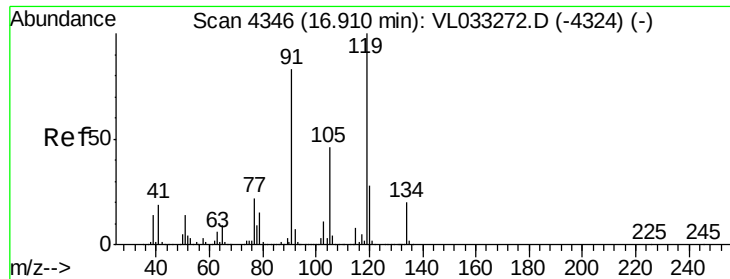
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 3/14/2019 5:05:35 AM



#64
 n-propylbenzene
 Concen: 9.388 ppbv
 RT: 15.73 min Scan# 3978
 Delta R.T. 0.00 min
 Lab File: VL033272.D
 Acq: 12 Mar 2019 2:18

Tgt Ion: 120 Resp: 838158
 Ion Ratio Lower Upper
 120 100
 91 482.7 385.8 578.8





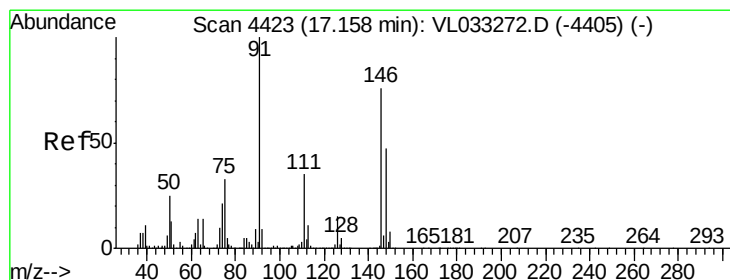
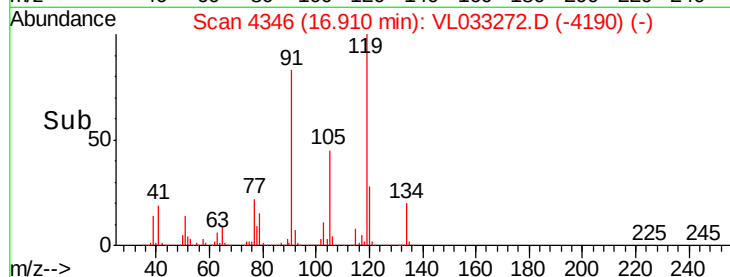
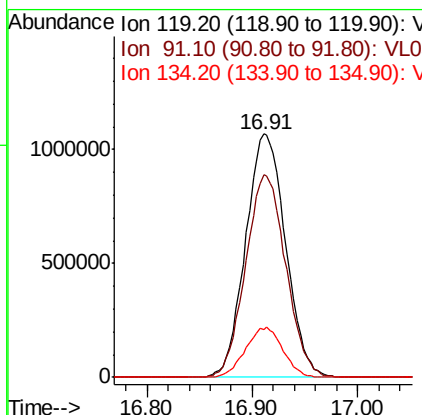
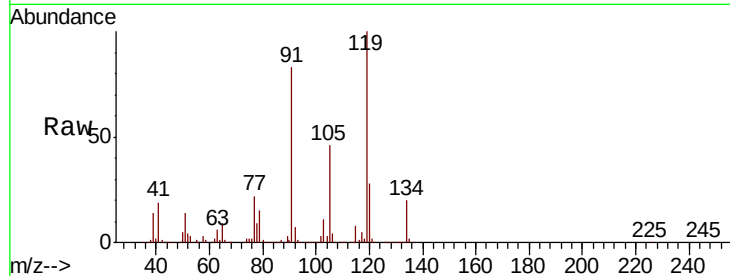
#65
 tert-Butylbenzene
 Concen: 9.163 ppbv
 RT: 16.91 min Scan# 4346
 Delta R.T. 0.00 min
 Lab File: VL033272.D
 Acq: 12 Mar 2019 2:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 119 Resp: 2811206
 Ion Ratio Lower Upper
 119 100
 91 84.1 67.3 100.9
 134 19.3 15.4 23.2

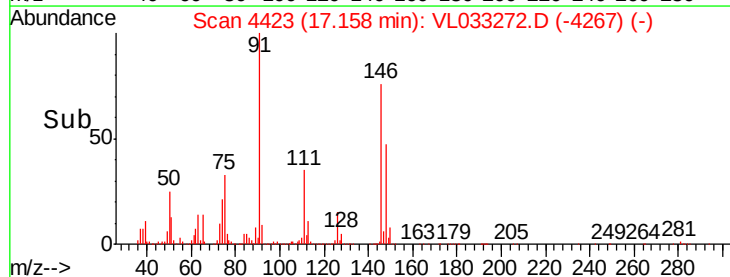
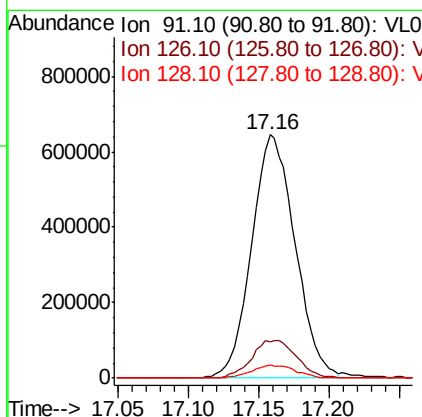
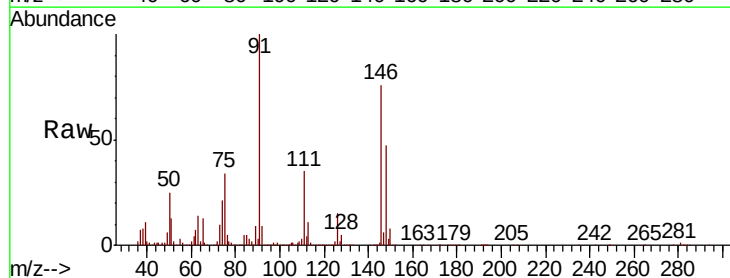
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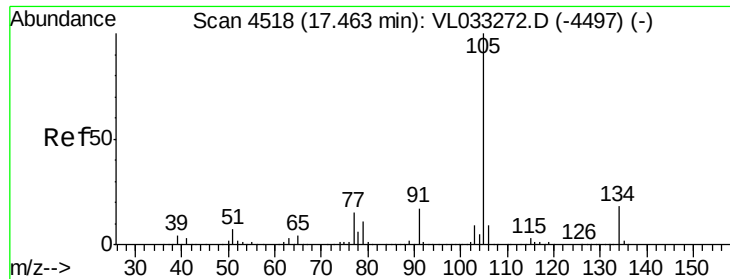
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#66
 Benzyl Chloride
 Concen: 12.137 ppbv
 RT: 17.16 min Scan# 4423
 Delta R.T. 0.00 min
 Lab File: VL033272.D
 Acq: 12 Mar 2019 2:18

Tgt Ion: 91 Resp: 1387565
 Ion Ratio Lower Upper
 91 100
 126 16.3 13.0 19.6
 128 5.4 4.3 6.5





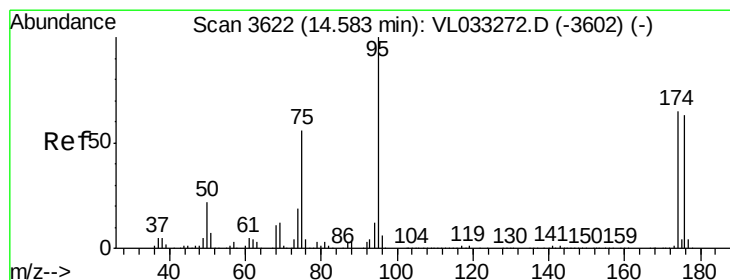
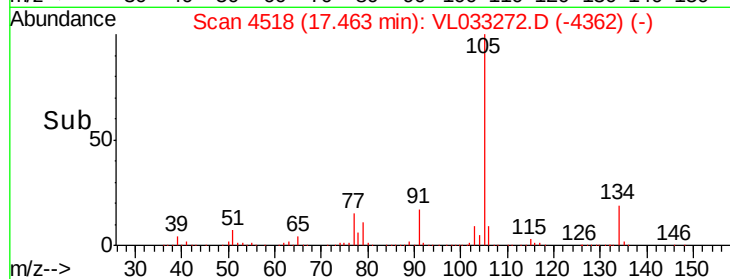
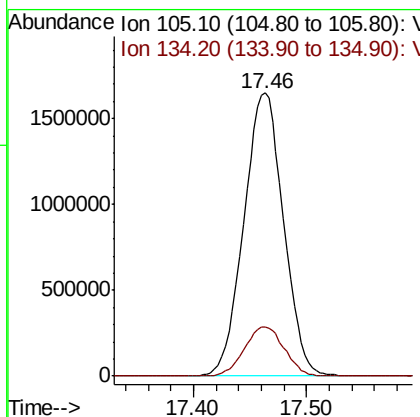
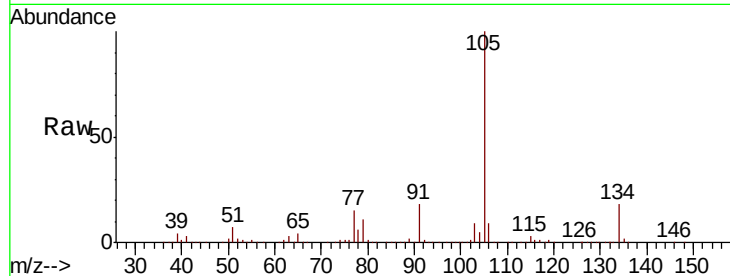
#67
 sec-Butylbenzene
 Concen: 9.211 ppbv
 RT: 17.46 min Scan# 4518
 Delta R.T. 0.00 min
 Lab File: VL033272.D
 Acq: 12 Mar 2019 2:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 105 Resp: 4009500
 Ion Ratio Lower Upper
 105 100
 134 17.7 14.2 21.2

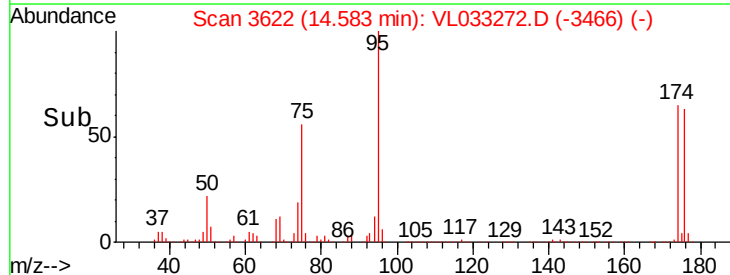
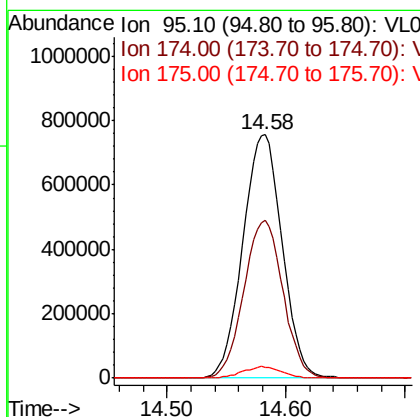
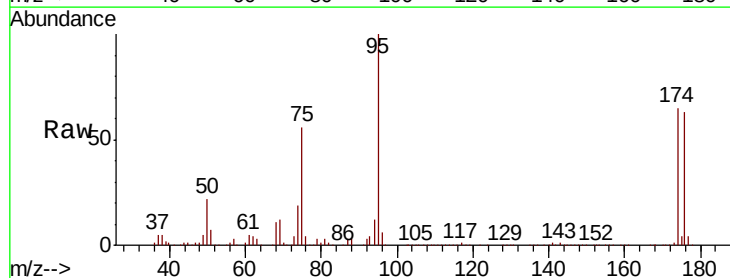
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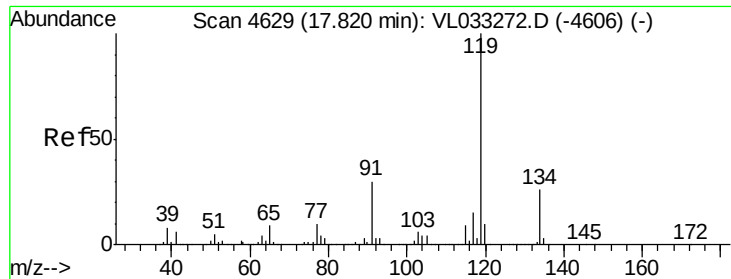
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.371 ppbv
 RT: 14.58 min Scan# 3622
 Delta R.T. 0.00 min
 Lab File: VL033272.D
 Acq: 12 Mar 2019 2:18

Tgt Ion: 95 Resp: 1730342
 Ion Ratio Lower Upper
 95 100
 174 64.4 51.7 77.5
 175 4.6 3.7 5.5





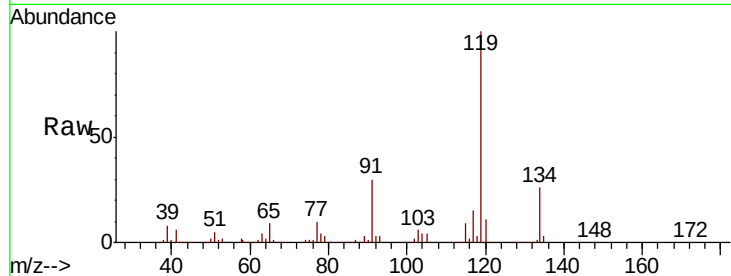
#69
 p-Isopropyltoluene
 Concen: 9.470 ppbv
 RT: 17.82 min Scan# 4629
 Delta R.T. 0.00 min
 Lab File: VL033272.D
 Acq: 12 Mar 2019 2:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

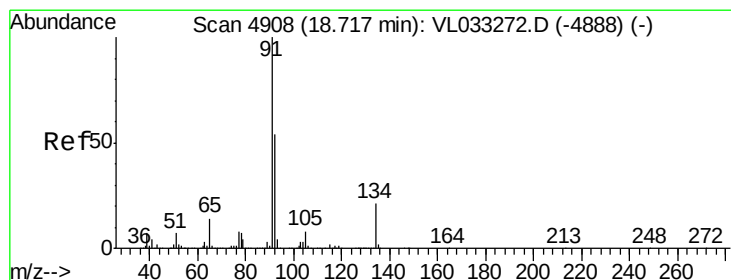
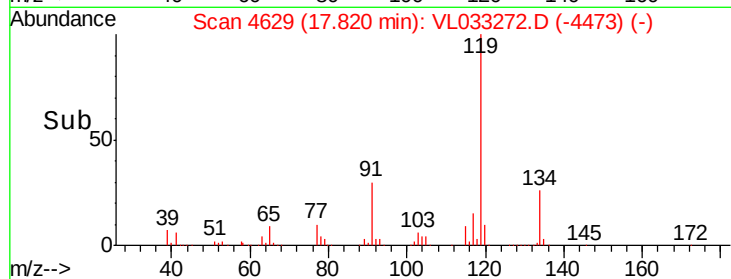
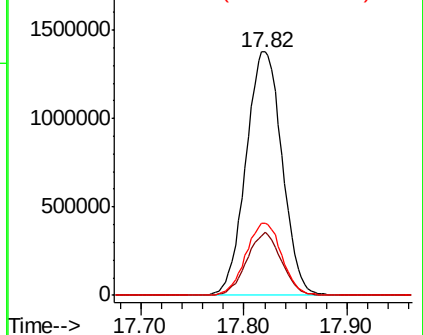
Tgt Ion: 119 Resp: 3349885
 Ion Ratio Lower Upper
 119 100
 134 24.6 19.7 29.5
 91 29.4 23.5 35.3

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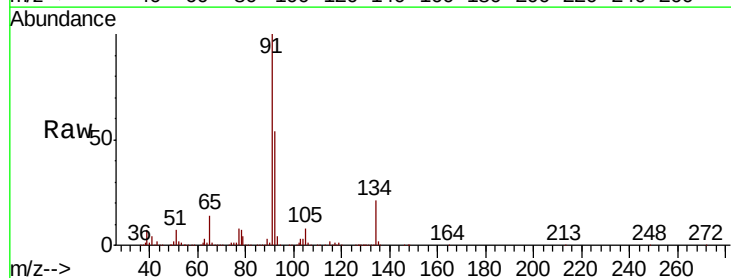


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

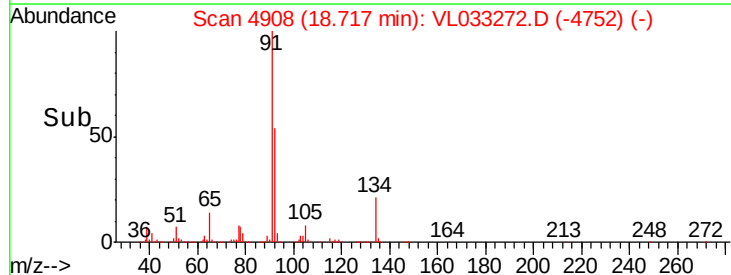
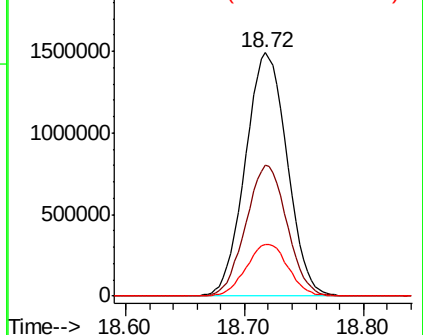


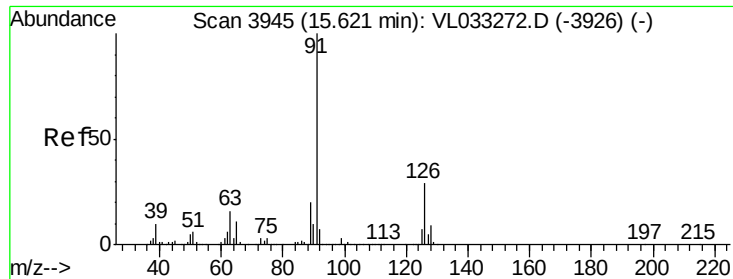
#70
 n-Butylbenzene
 Concen: 9.451 ppbv
 RT: 18.72 min Scan# 4908
 Delta R.T. 0.00 min
 Lab File: VL033272.D
 Acq: 12 Mar 2019 2:18

Tgt Ion: 91 Resp: 3622914
 Ion Ratio Lower Upper
 91 100
 92 53.1 42.4 63.6
 134 21.4 17.1 25.7



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





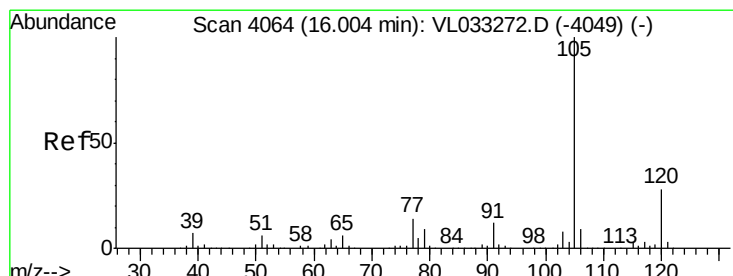
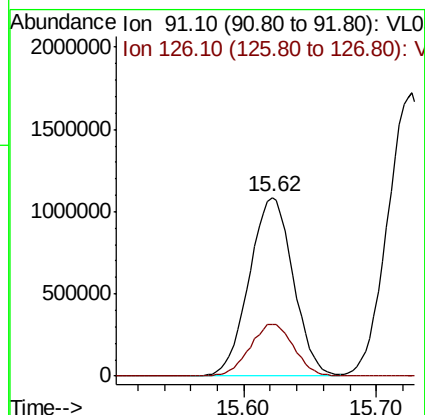
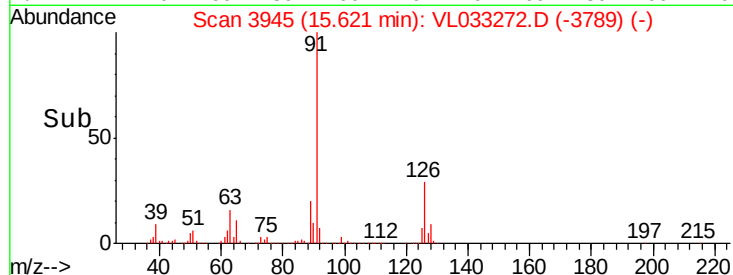
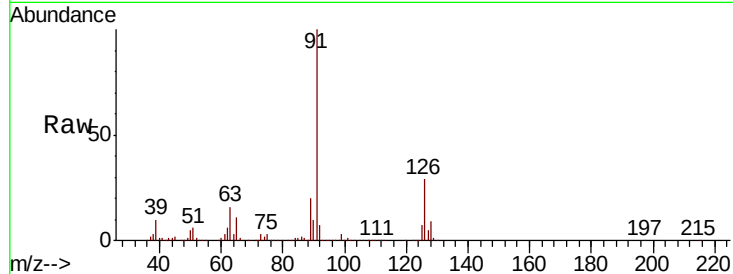
#71
 2-Chlorotoluene
 Concen: 9.201 ppbv
 RT: 15.62 min Scan# 3945
 Delta R.T. 0.00 min
 Lab File: VL033272.D
 Acq: 12 Mar 2019 2:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 91 Resp: 2505901
 Ion Ratio Lower Upper
 91 100
 126 29.2 11.7 46.7

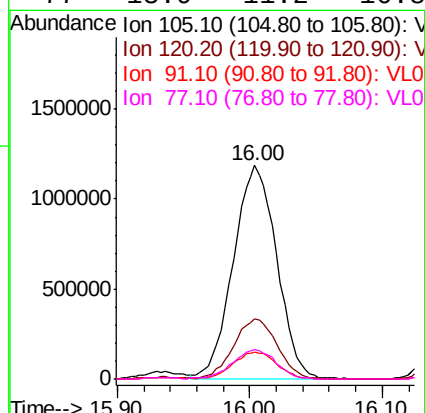
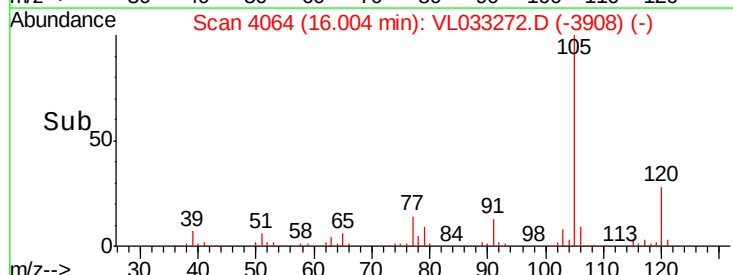
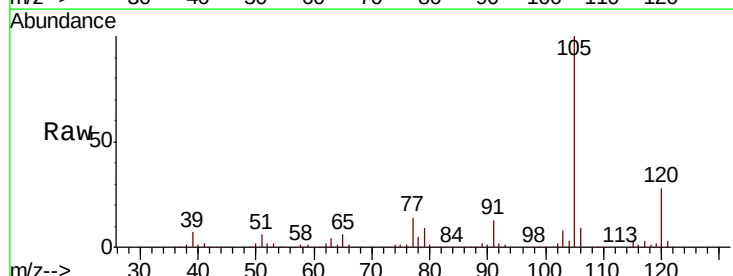
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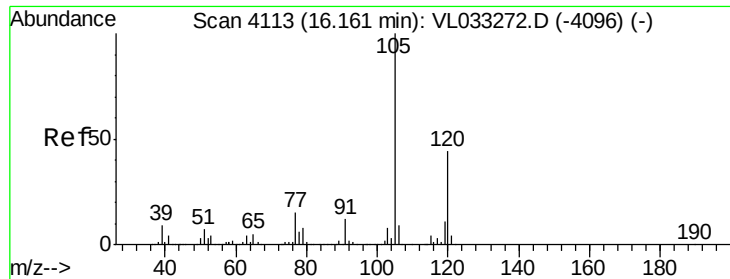
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#72
 4-Ethyltoluene
 Concen: 9.468 ppbv
 RT: 16.00 min Scan# 4064
 Delta R.T. 0.00 min
 Lab File: VL033272.D
 Acq: 12 Mar 2019 2:18

Tgt Ion: 105 Resp: 2687922
 Ion Ratio Lower Upper
 105 100
 120 28.5 22.9 34.3
 91 13.3 10.2 15.2
 77 13.9 11.2 16.8





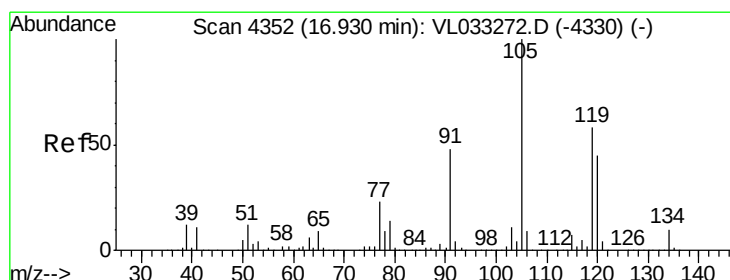
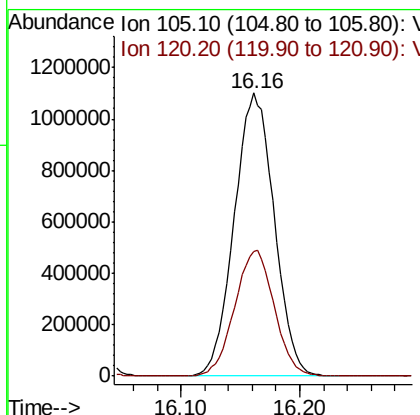
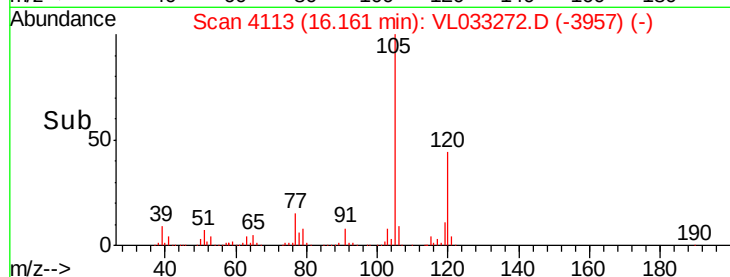
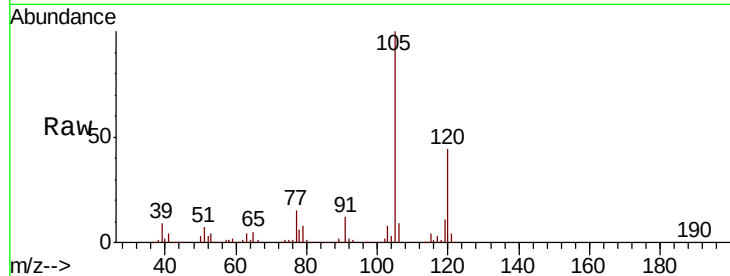
#73
 1,3,5-Trimethylbenzene
 Concen: 9.405 ppbv
 RT: 16.16 min Scan# 4113
 Delta R.T. 0.00 min
 Lab File: VL033272.D
 Acq: 12 Mar 2019 2:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion:105 Resp: 2543209
 Ion Ratio Lower Upper
 105 100
 120 43.9 35.1 52.7

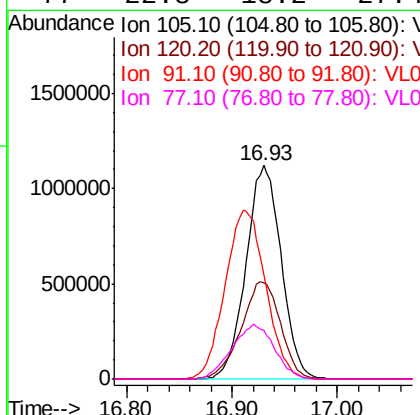
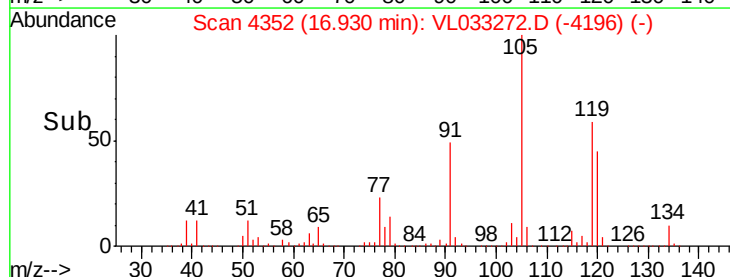
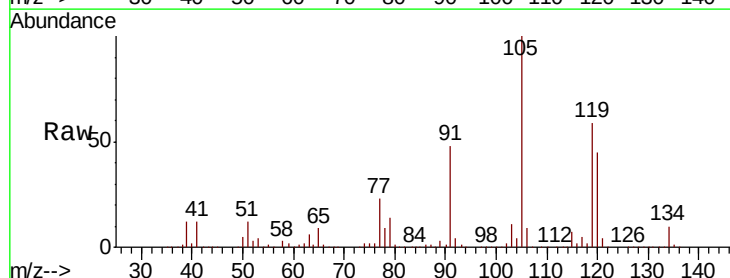
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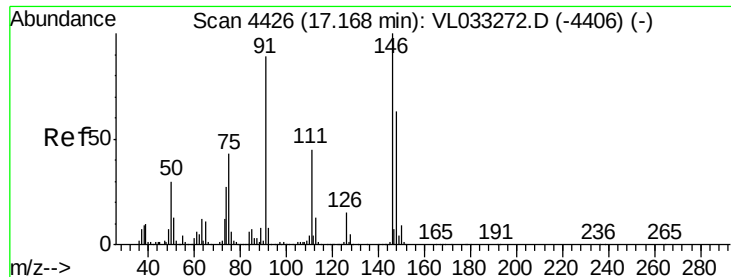
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#74
 1,2,4-Trimethylbenzene
 Concen: 9.250 ppbv
 RT: 16.93 min Scan# 4352
 Delta R.T. 0.00 min
 Lab File: VL033272.D
 Acq: 12 Mar 2019 2:18

Tgt Ion:105 Resp: 2607230
 Ion Ratio Lower Upper
 105 100
 120 45.1 36.1 54.1
 91 48.3 38.6 58.0
 77 22.8 18.2 27.4





#75

1,3-Dichlorobenzene

Concen: 9.002 ppbv

RT: 17.17 min Scan# 4426

Delta R.T. 0.00 min

Lab File: VL033272.D

Acq: 12 Mar 2019 2:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:146 Resp: 1497209

Ion Ratio Lower Upper

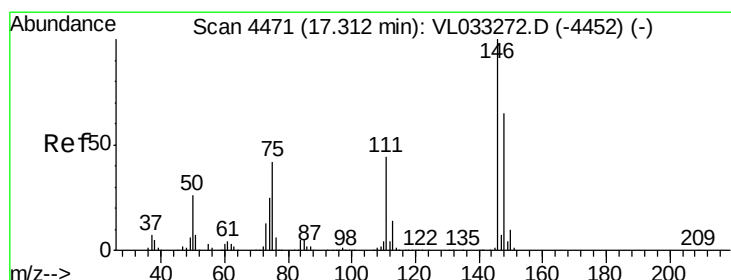
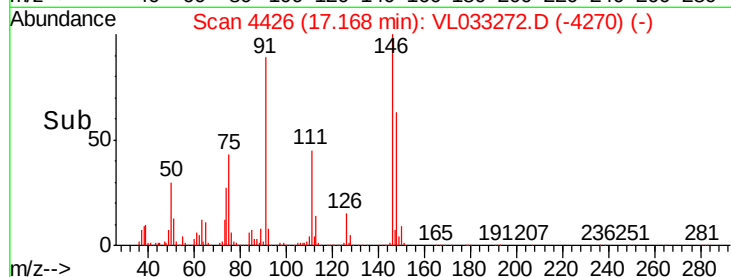
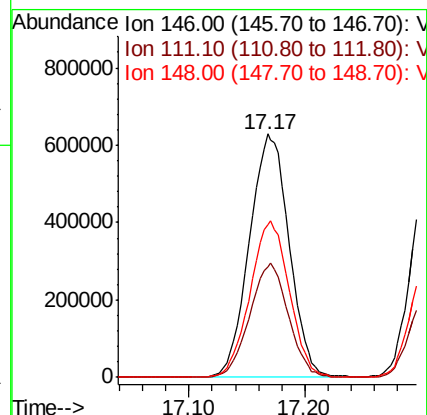
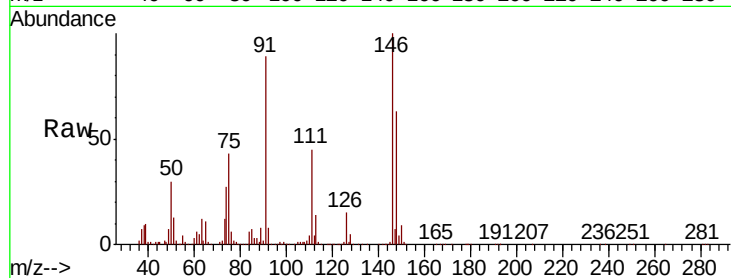
146 100

111 45.6 22.8 68.4

148 63.5 31.8 95.3

Manual Integrations
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#76

1,4-Dichlorobenzene

Concen: 9.289 ppbv

RT: 17.31 min Scan# 4471

Delta R.T. 0.00 min

Lab File: VL033272.D

Acq: 12 Mar 2019 2:18

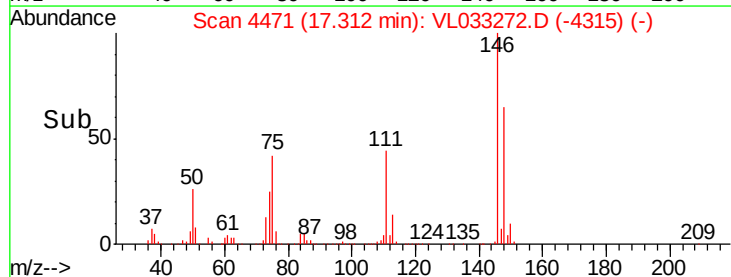
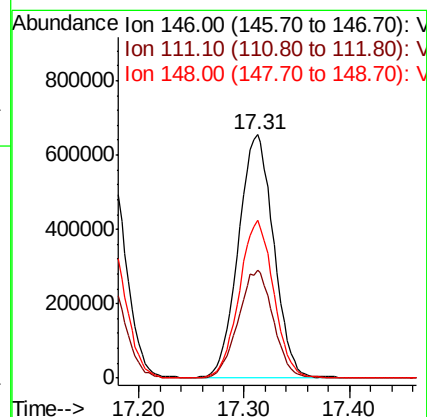
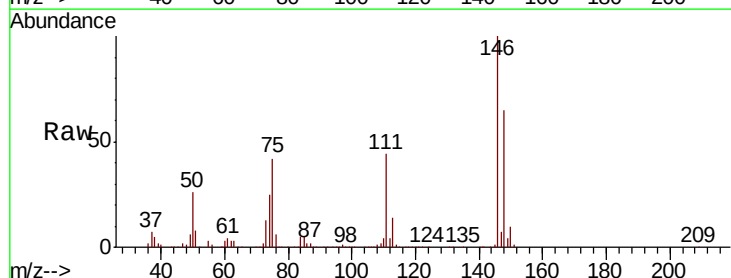
Tgt Ion:146 Resp: 1515702

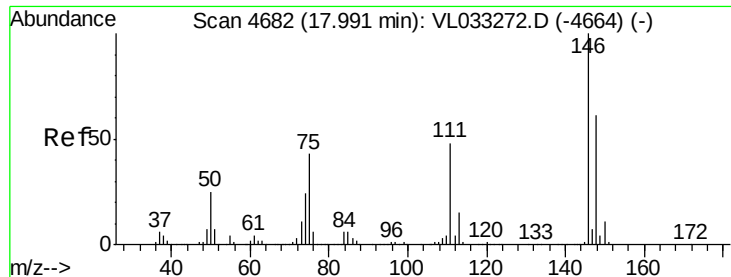
Ion Ratio Lower Upper

146 100

111 44.0 22.1 66.1

148 63.6 31.8 95.3





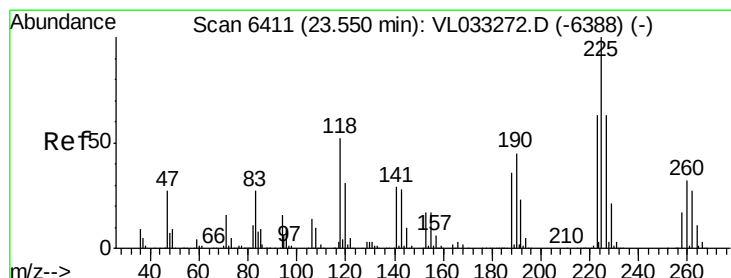
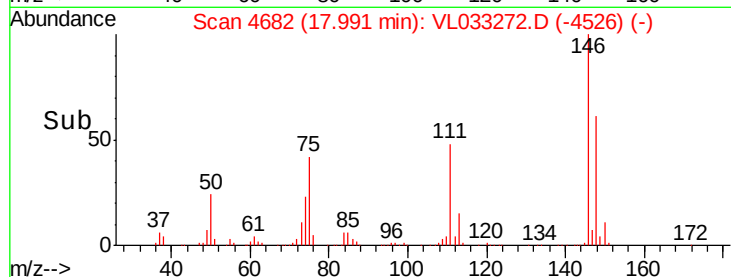
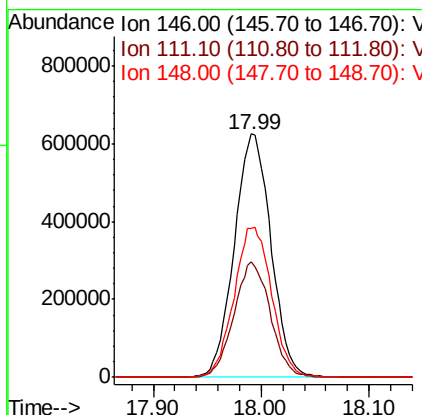
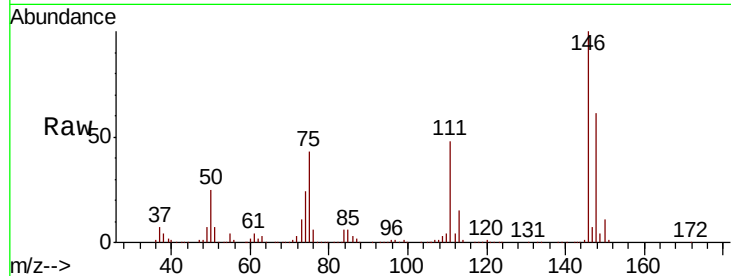
#77
 1,2-Dichlorobenzene
 Concen: 9.214 ppbv
 RT: 17.99 min Scan# 4682
 Delta R.T. 0.00 min
 Lab File: VL033272.D
 Acq: 12 Mar 2019 2:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion:146 Resp: 1479245
 Ion Ratio Lower Upper
 146 100
 111 47.0 23.5 70.5
 148 63.4 31.7 95.1

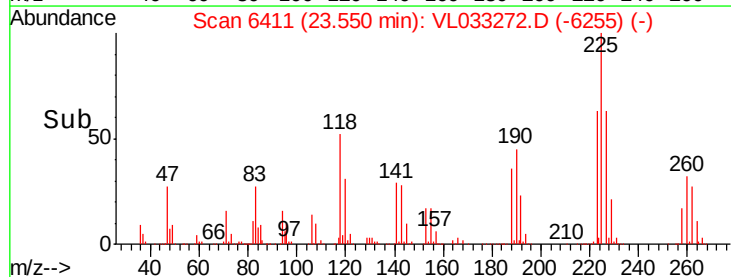
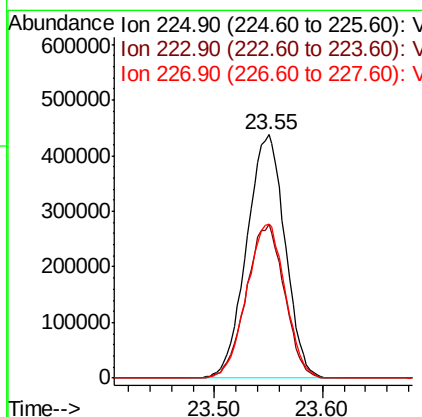
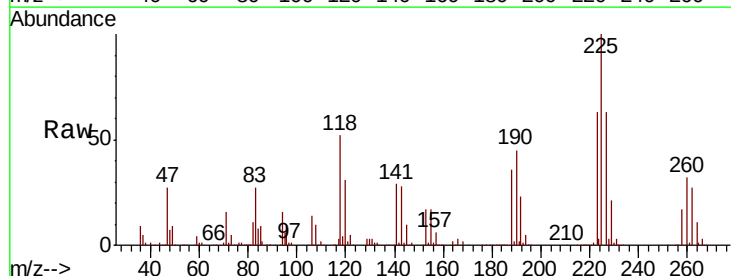
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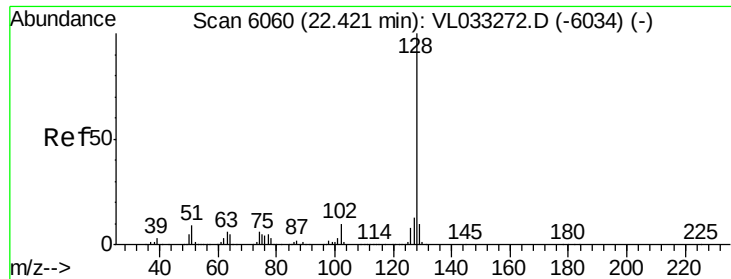
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#78
 Hexachloro-1,3-Butadiene
 Concen: 8.877 ppbv
 RT: 23.55 min Scan# 6411
 Delta R.T. 0.00 min
 Lab File: VL033272.D
 Acq: 12 Mar 2019 2:18

Tgt Ion:225 Resp: 1080150
 Ion Ratio Lower Upper
 225 100
 223 62.9 50.3 75.5
 227 63.9 51.1 76.7





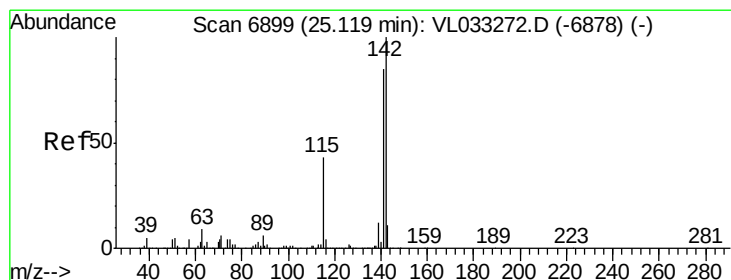
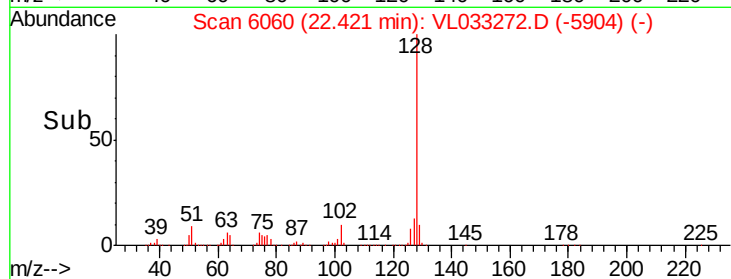
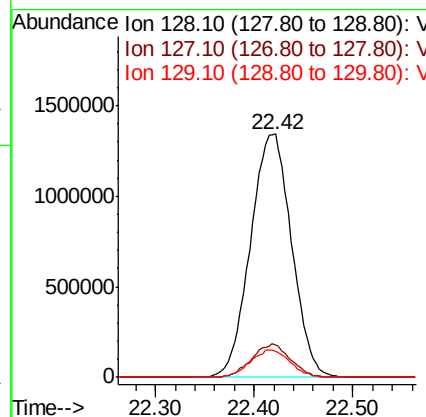
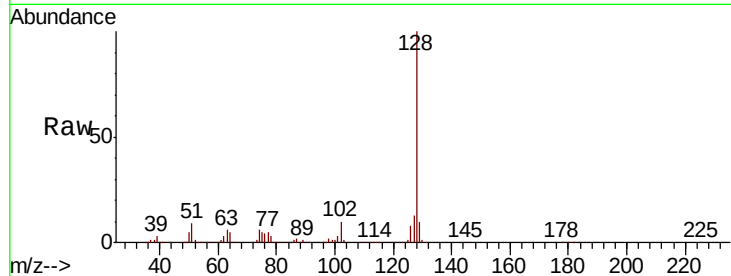
#79
Naphthalene
Concen: 12.567 ppbv
RT: 22.42 min Scan# 6060
Delta R.T. 0.00 min
Lab File: VL033272.D
Acq: 12 Mar 2019 2:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:128 Resp: 3869634
Ion Ratio Lower Upper
128 100
127 13.1 10.5 15.7
129 10.5 8.4 12.6

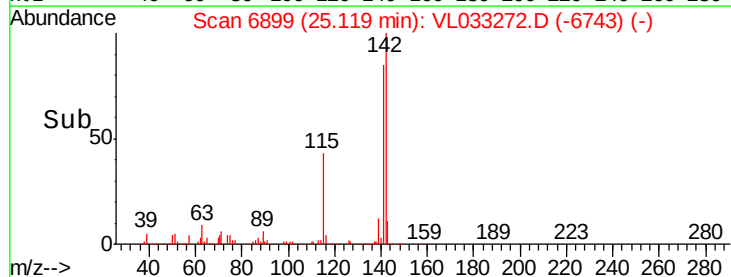
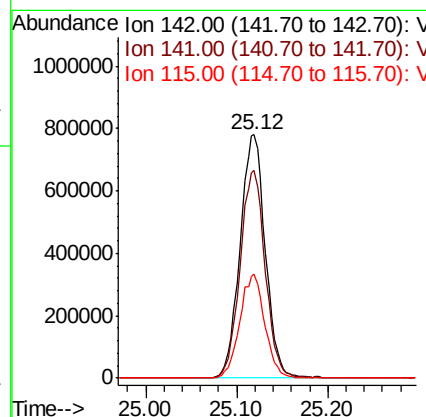
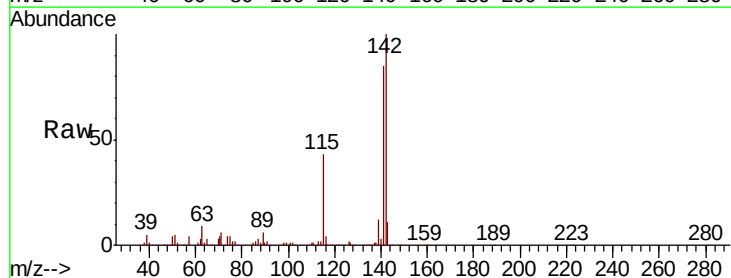
Manual Integrations
APPROVED

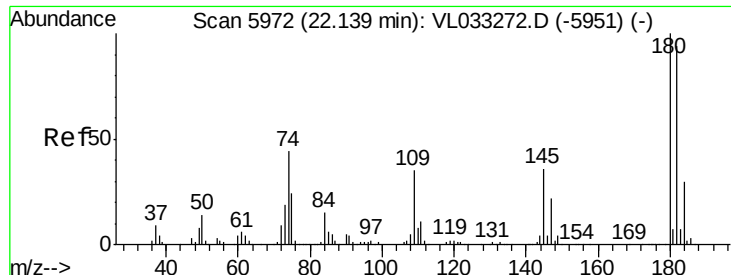
MMDadoda
3/14/2019 5:05:35 AM



#80
Naphthalene, 2-methyl-
Concen: 20.165 ppbv
RT: 25.12 min Scan# 6899
Delta R.T. 0.00 min
Lab File: VL033272.D
Acq: 12 Mar 2019 2:18

Tgt Ion:142 Resp: 1502361
Ion Ratio Lower Upper
142 100
141 85.0 68.0 102.0
115 42.2 33.8 50.6





#81
 1,2,4-Trichlorobenzene
 Concen: 11.274 ppbv
 RT: 22.14 min Scan# 5972
 Delta R.T. 0.00 min
 Lab File: VL033272.D
 Acq: 12 Mar 2019 2:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.6	114.8
184	30.3	24.2	36.4

Manual Integrations
 APPROVED

MMDadoda
 3/14/2019 5:05:35 AM

