

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022520\
 Data File : VL034673.D
 Acq On : 25 Feb 2020 15:09
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 2/26/2020 12:38:58 PM

Quant Time: Feb 25 15:42:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Feb 25 2020
 QLast Update : Tue Feb 25 12:01:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1148353	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2442664	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2657547	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	2144842	9.55	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	1856257	7.339	ppbv	99
3) Chlorodifluoromethane	2.95	51	1706453	12.298	ppbv	99
4) Chloromethane	3.11	50	1124281	13.243	ppbv	98
5) Vinyl Chloride	3.22	62	1058750	13.056	ppbv	100
6) Bromomethane	3.44	94	530805	12.584	ppbv	95
7) Chloroethane	3.53	64	388422	12.880	ppbv	98
8) Dichlorotetrafluoroethane	3.15	85	2144896	10.849	ppbv	98
9) Propene	2.97	41	793413	14.686	ppbv	97
10) Heptane	8.14	43	2206406	16.228	ppbv	99
11) Trichlorofluoromethane	3.93	101	2223633	9.678	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1570130	10.474	ppbv	98
13) Ethanol	3.58	45	170433	11.777	ppbv	99
14) Bromoethene	3.71	108	717132	12.195	ppbv	100
15) Acetone	3.83	43	1845219	10.933	ppbv	98
16) 1,3-Butadiene	3.29	39	945857	14.113	ppbv	99
17) tert-Butyl alcohol	4.28	59	1381607	11.131	ppbv	99
18) 1,1-Dichloroethene	4.27	96	743999	11.757	ppbv	92
19) Isopropyl Alcohol	3.95	45	1309705	13.298	ppbv	100
20) Methylene Chloride	4.32	84	677284	10.539	ppbv	97
21) Allyl Chloride	4.39	41	1334884	12.735	ppbv	100
22) trans-1,2-Dichloroethene	4.87	96	746119	11.258	ppbv	96
23) Vinyl Acetate	5.07	43	2773263	14.403	ppbv	100
24) 1,1-Dichloroethane	5.00	63	2084733	12.968	ppbv	98
25) Ethyl Acetate	5.67	43	3642788	13.332	ppbv	98
26) Hexane	5.68	57	1654326	14.455	ppbv	99
27) Carbon Disulfide	4.53	76	1983006	12.841	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	2360920	12.096	ppbv	99
29) Chloroform	5.75	83	2504352	12.375	ppbv	99
30) Cyclohexane	7.14	84	1381611	16.291	ppbv	97
31) cis-1,2-Dichloroethene	5.55	61	1718409	14.452	ppbv	96
32) 1,1,1-Trichloroethane	6.52	97	2340726	10.772	ppbv	99
34) 2-Butanone	5.24	43	2444450	13.782	ppbv	98
35) Carbon Tetrachloride	7.03	117	2463774	10.550	ppbv	99
36) Benzene	6.91	78	3231456	14.876	ppbv	98
37) 1,2-Dichloroethane	6.32	62	2029451	11.198	ppbv	100
38) Trichloroethene	7.85	130	1214967	13.269	ppbv	97
39) 1,2-Dichloropropane	7.63	63	1342740	14.911	ppbv	98
40) 1,4-Dioxane	7.85	88	474481	13.707	ppbv #	1
41) Tetrahydrofuran	6.05	42	1411567	15.256	ppbv	98
42) Bromodichloromethane	7.81	83	2719331	12.191	ppbv	99
43) Methyl Methacrylate	8.03	69	1414406	16.189	ppbv	99

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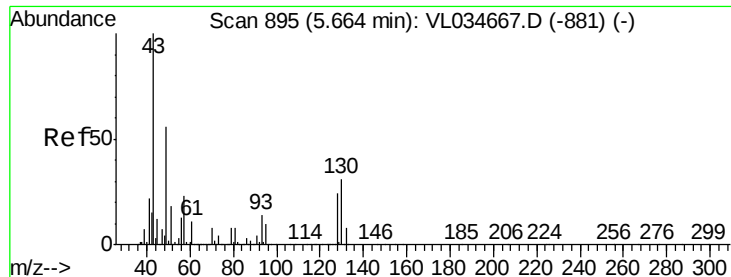
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Quant Time: Feb 25 15:42:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Feb 25 2020
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	5486404	13.921	ppbv	98
45) t-1,3-Dichloropropene	9.30	75	1791724	15.661	ppbv	97
46) cis-1,3-Dichloropropene	8.73	75	2029752	15.610	ppbv	99
47) 1,1,2-Trichloroethane	9.50	97	1372820	14.076	ppbv	99
48) Dibromochloromethane	10.34	129	2269403	12.698	ppbv	100
49) Bromoform	13.09	173	2001720	12.757	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	3680200	14.550	ppbv	99
51) 2-Hexanone	10.16	43	3110679	15.623	ppbv #	98
52) Tetrachloroethene	11.26	164	1112996	12.755	ppbv	98
53) Toluene	9.83	91	3701476	15.511	ppbv	98
54) 1,2-Dibromoethane	10.65	107	1985943	13.588	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.16	131	1468331	11.191	ppbv #	64
57) Chlorobenzene	12.19	112	2738685	12.524	ppbv	97
58) Ethyl Benzene	12.75	91	4865876	13.683	ppbv	96
59) m/p-Xylene	13.03	91	8007360m	25.472	ppbv	
60) o-Xylene	13.74	91	3935957	12.467	ppbv	99
61) Styrene	13.57	104	3173474	15.076	ppbv	100
62) Isopropylbenzene	14.71	105	5148123	12.584	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.72	83	2820036	11.549	ppbv	99
64) n-propylbenzene	15.61	120	1405523	13.353	ppbv	91
65) tert-Butylbenzene	16.79	119	4439225	11.977	ppbv	99
66) Benzyl Chloride	17.04	91	2190252	14.093	ppbv	100
67) sec-Butylbenzene	17.34	105	6245015	12.260	ppbv	98
69) p-Isopropyltoluene	17.70	119	5080082	12.283	ppbv	98
70) n-Butylbenzene	18.60	91	5396823	12.292	ppbv	98
71) 2-Chlorotoluene	15.50	91	4100862	13.205	ppbv	98
72) 4-Ethyltoluene	15.89	105	4599918	13.264	ppbv	99
73) 1,3,5-Trimethylbenzene	16.05	105	4325406	12.764	ppbv	95
74) 1,2,4-Trimethylbenzene	16.82	105	4345478	11.584	ppbv	98
75) 1,3-Dichlorobenzene	17.05	146	2466185	11.417	ppbv	99
76) 1,4-Dichlorobenzene	17.19	146	2493573	11.713	ppbv	99
77) 1,2-Dichlorobenzene	17.87	146	2417388	11.650	ppbv	100
78) Hexachloro-1,3-Butadiene	23.43	225	1815476	9.149	ppbv	99
79) Naphthalene	22.27	128	4022037	13.619	ppbv	100
80) Naphthalene, 2-methyl-	25.02	142	1079017	9.497	ppbv	99
81) 1,2,4-Trichlorobenzene	22.00	180	2243703	12.323	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.00 min

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Tot Ion: 49 Resp: 1148353

Ion Ratio Lower Upper

49 100

128 41.9 21.9 65.5

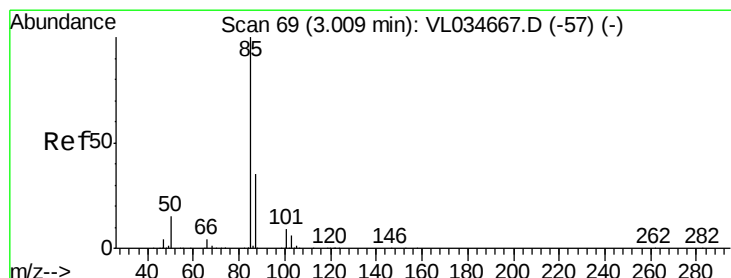
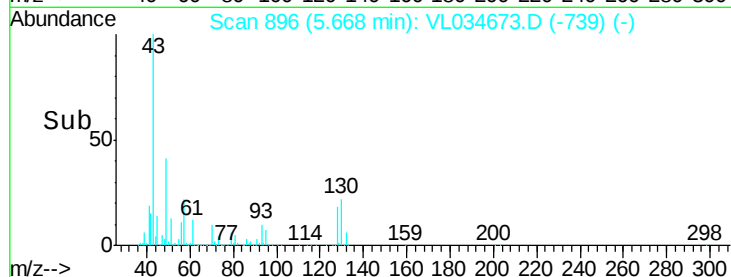
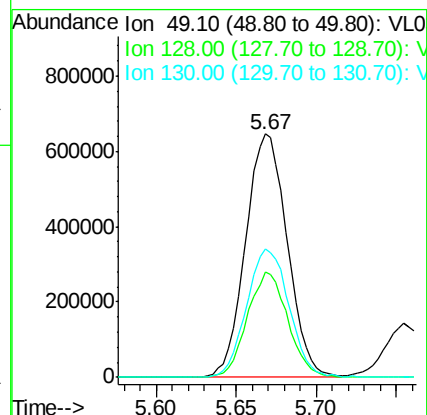
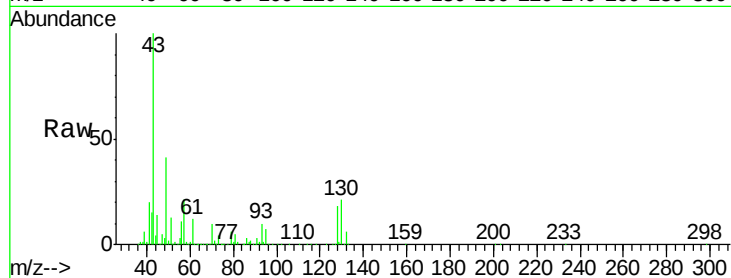
130 54.0 27.9 83.7

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 7.339 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL034673.D

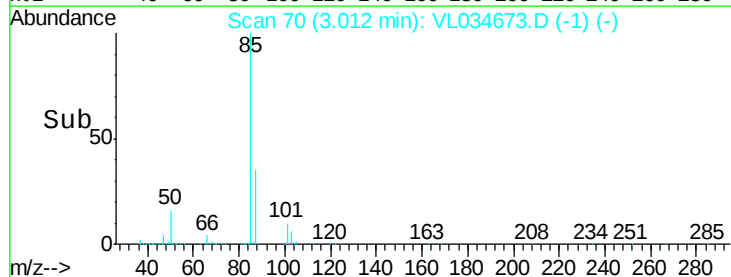
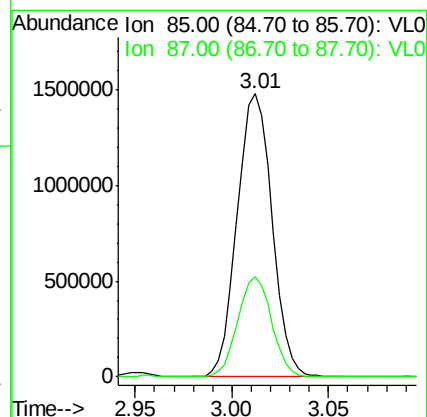
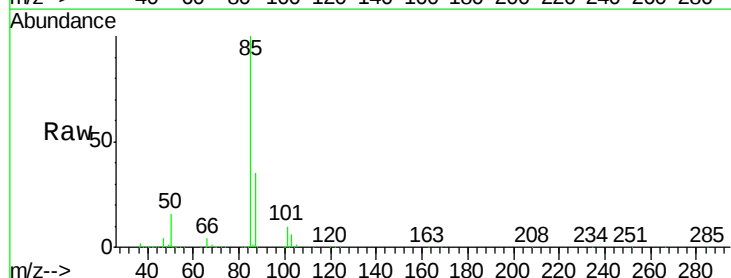
Acq: 25 Feb 2020 15:09

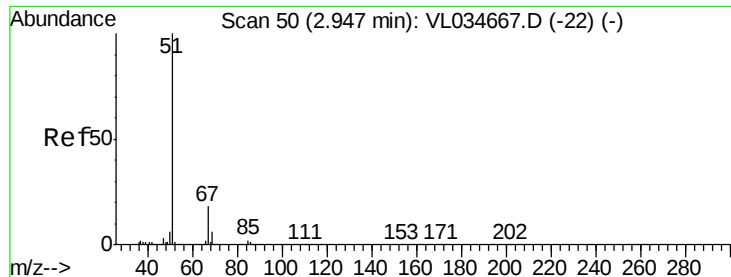
Tgt Ion: 85 Resp: 1856257

Ion Ratio Lower Upper

85 100

87 35.4 27.9 41.9





#3

Chlorodifluoromethane

Concen: 12.298 ppbv

RT: 2.95 min Scan# 51

Delta R.T. 0.00 min

Lab File: VL034673.D

Acq: 25 Feb 2020 15:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 51 Resp: 1706453

Ion Ratio Lower Upper

51 100

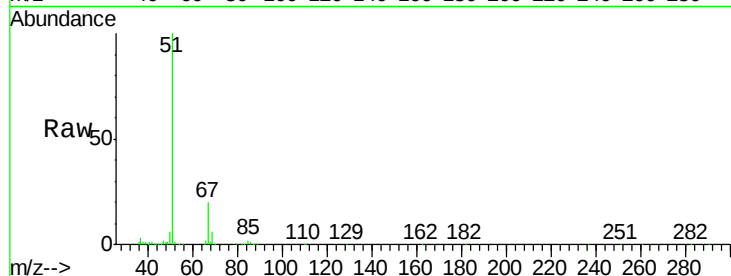
67 19.2 15.0 22.4

Manual Integrations

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

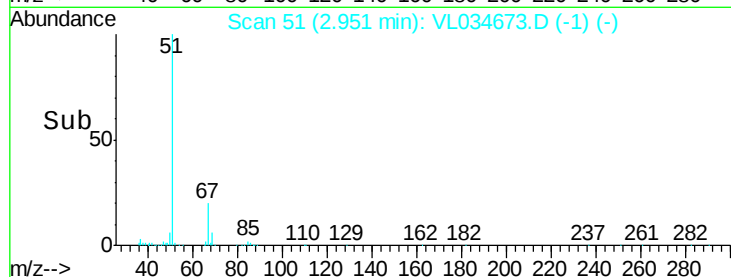
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1000000

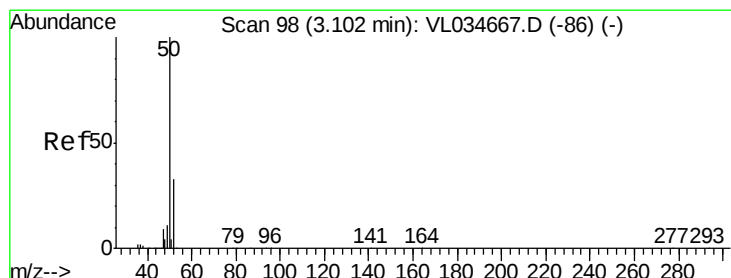
500000

0

Time-->



Time-->



#4

Chloromethane

Concen: 13.243 ppbv

RT: 3.11 min Scan# 99

Delta R.T. 0.00 min

Lab File: VL034673.D

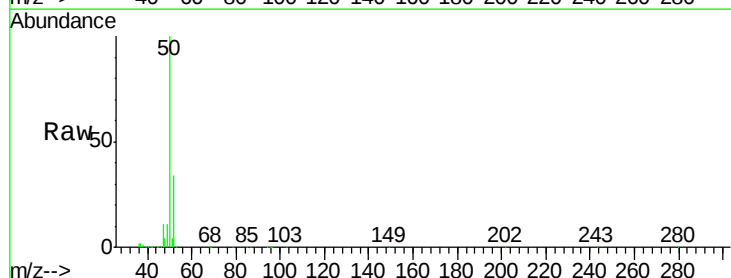
Acq: 25 Feb 2020 15:09

Tgt Ion: 50 Resp: 1124281

Ion Ratio Lower Upper

50 100

52 33.9 26.2 39.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

800000

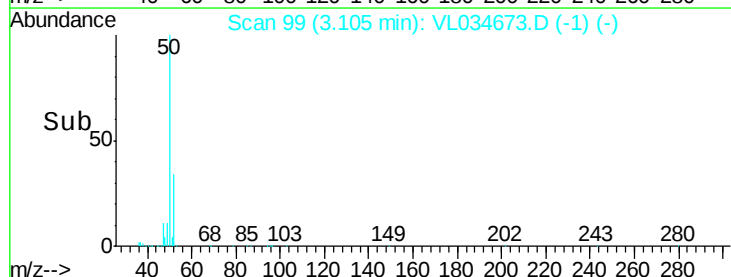
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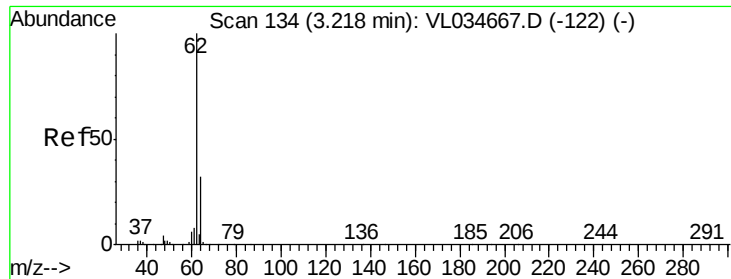
400000

200000

0

Time-->





#5

Vinyl Chloride

Concen: 13.056 ppbv

RT: 3.22 min Scan# 135

Delta R.T. 0.00 min

Lab File: VL034673.D

Acq: 25 Feb 2020 15:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 1058750

Ion Ratio Lower Upper

62 100

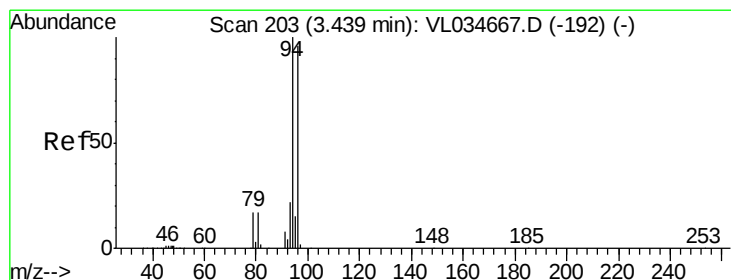
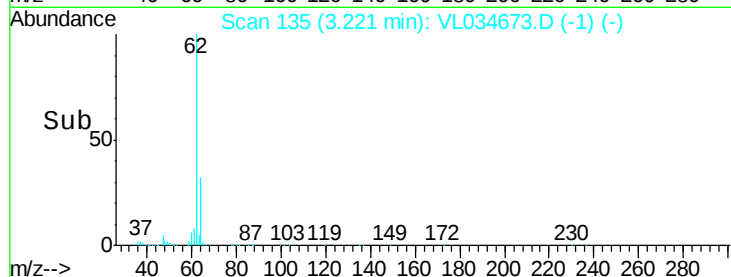
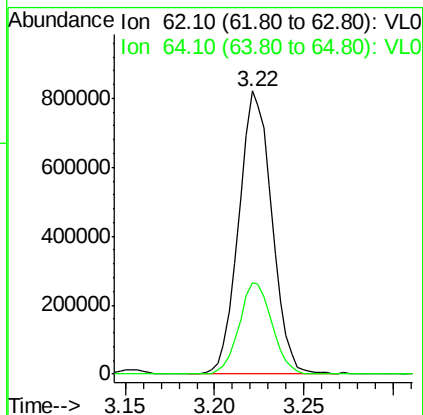
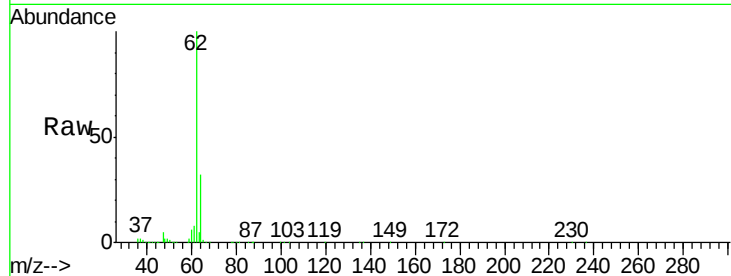
64 32.3 25.7 38.5

Manual Integrations

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#6

Bromomethane

Concen: 12.584 ppbv

RT: 3.44 min Scan# 203

Delta R.T. 0.00 min

Lab File: VL034673.D

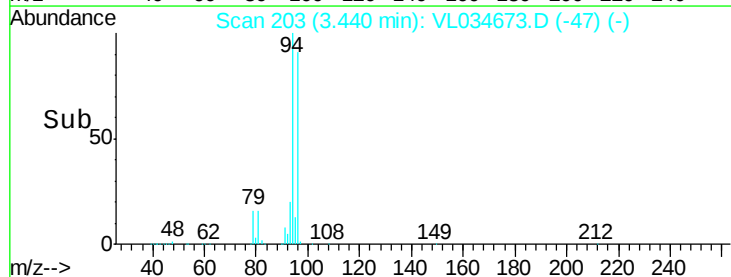
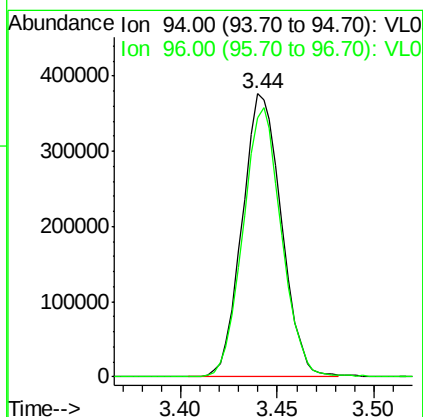
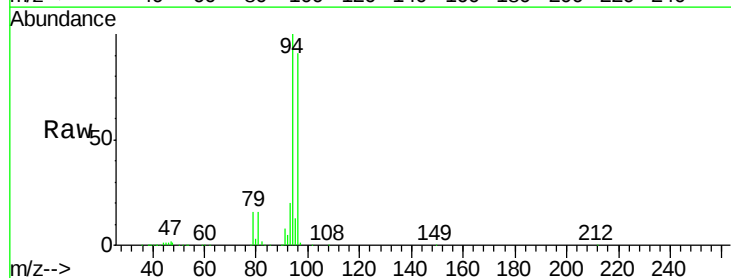
Acq: 25 Feb 2020 15:09

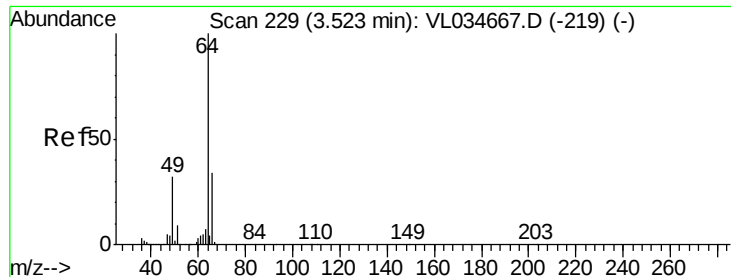
Tgt Ion: 94 Resp: 530805

Ion Ratio Lower Upper

94 100

96 91.4 77.0 115.4





#7

Chloroethane

Concen: 12.880 ppbv

RT: 3.53 min Scan# 230

Delta R.T. 0.00 min

Lab File: VL034673.D

Acq: 25 Feb 2020 15:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 388422

Ion Ratio Lower Upper

64 100

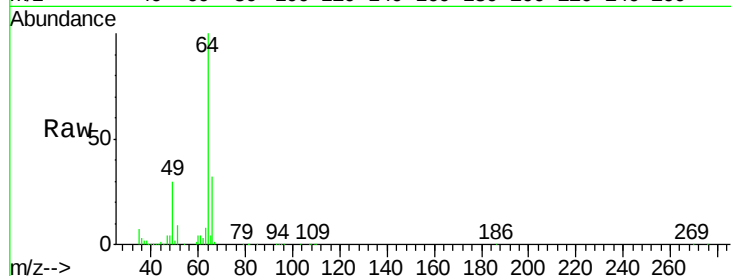
66 32.4 26.9 40.3

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.53

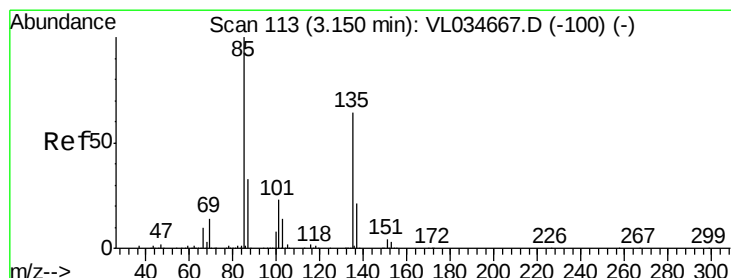
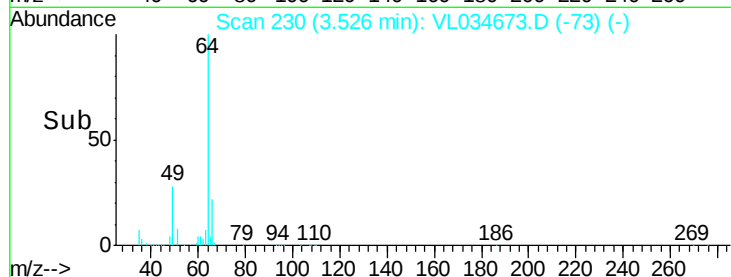
300000

200000

100000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 10.849 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.00 min

Lab File: VL034673.D

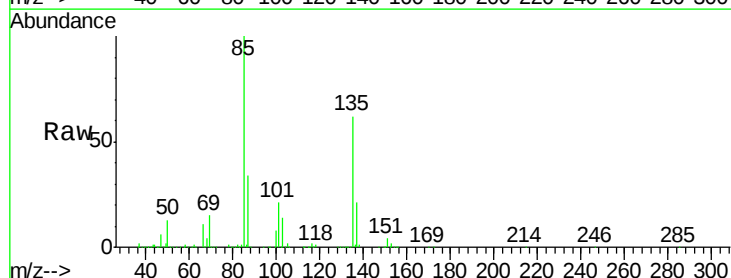
Acq: 25 Feb 2020 15:09

Tgt Ion: 85 Resp: 2144896

Ion Ratio Lower Upper

85 100

135 63.1 49.3 73.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0

3.15

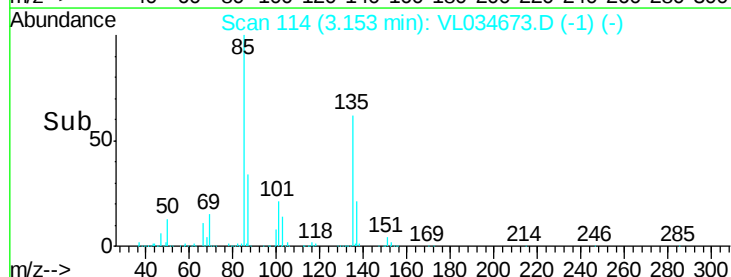
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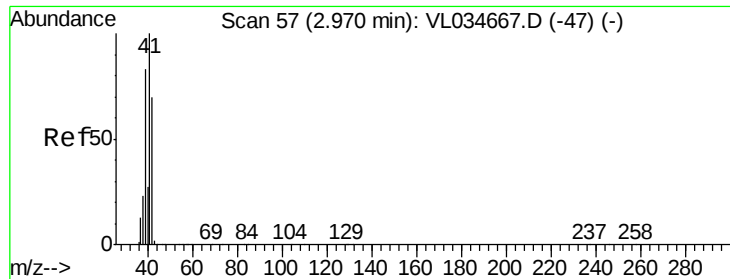
1000000

500000

0

Time-->





#9

Propene

Concen: 14.686 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.00 min

Lab File: VL034673.D

Acq: 25 Feb 2020 15:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 793413

Ion Ratio Lower Upper

41 100

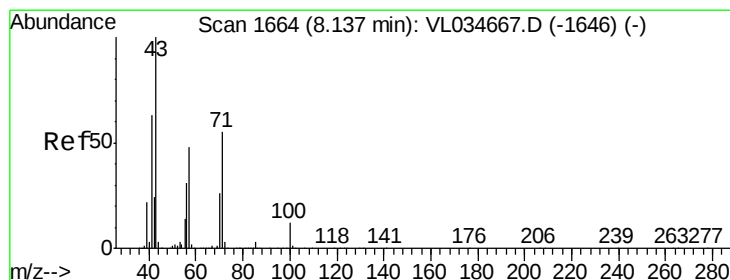
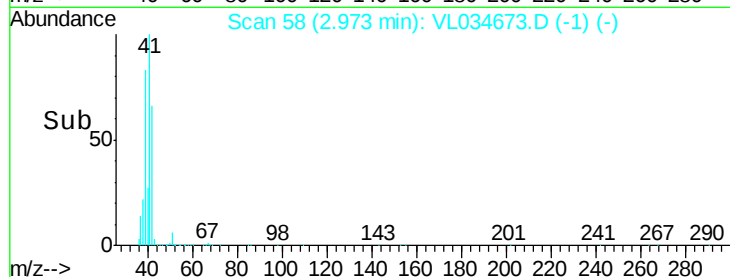
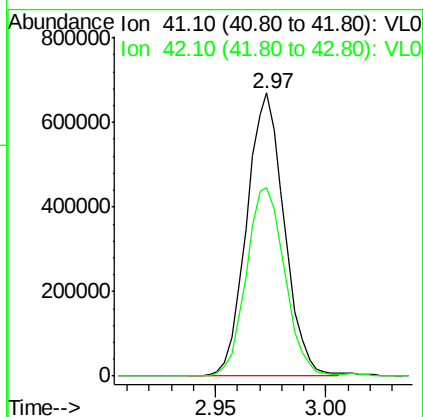
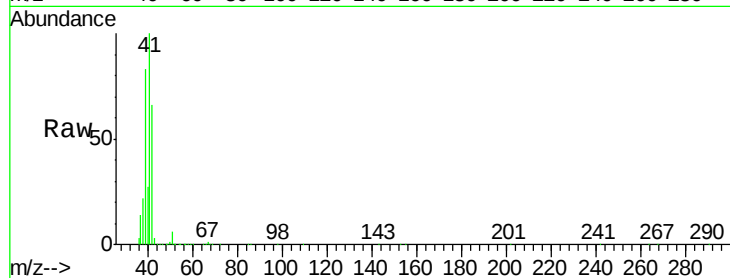
42 69.0 57.0 85.4

Manual Integrations

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#10

Heptane

Concen: 16.228 ppbv

RT: 8.14 min Scan# 1665

Delta R.T. 0.00 min

Lab File: VL034673.D

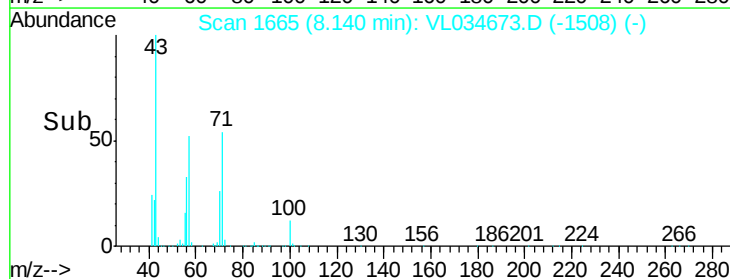
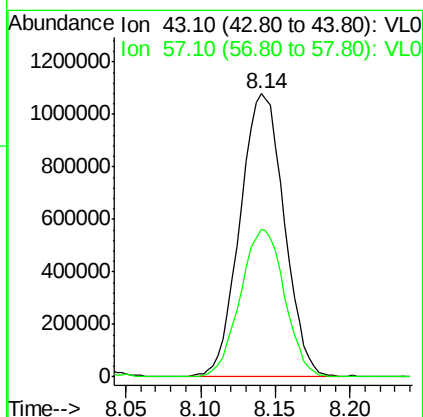
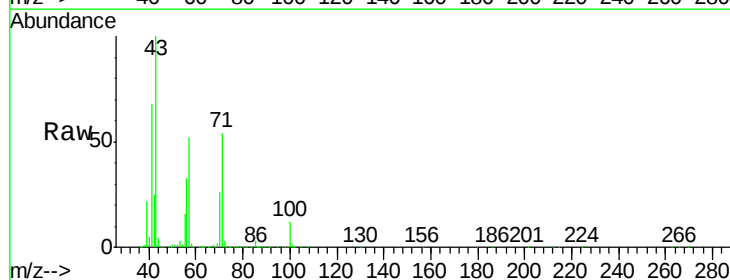
Acq: 25 Feb 2020 15:09

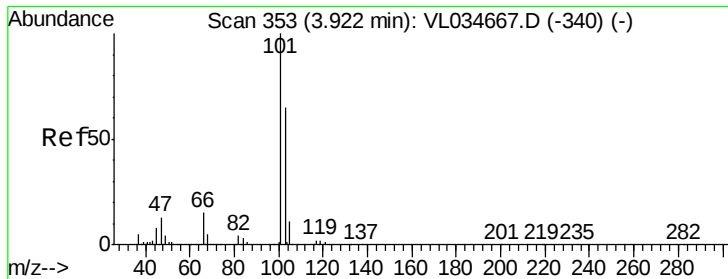
Tgt Ion: 43 Resp: 2206406

Ion Ratio Lower Upper

43 100

57 52.6 41.7 62.5





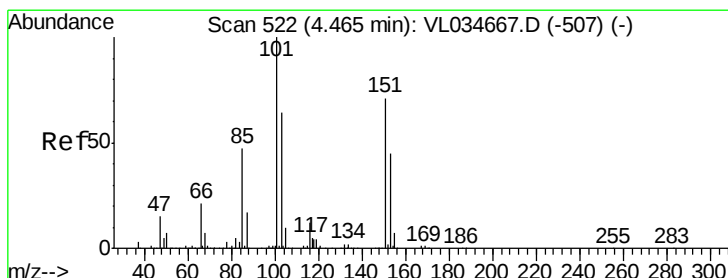
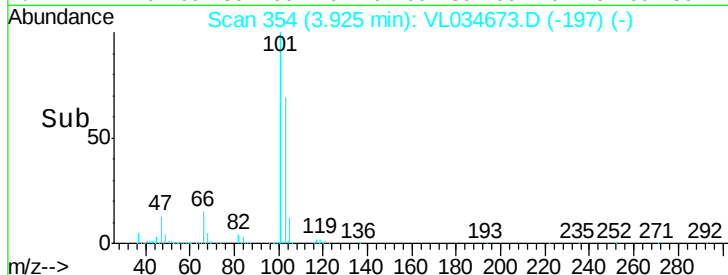
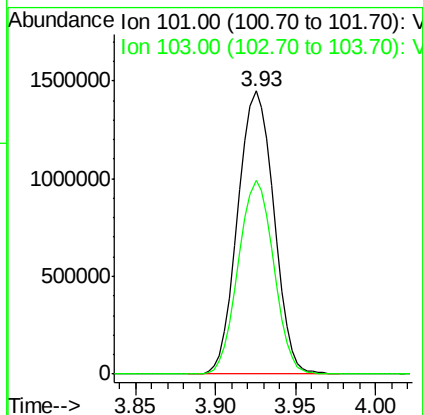
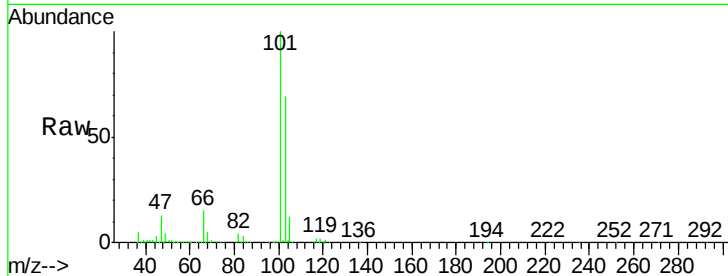
#11
 Trichlorofluoromethane
 Concen: 9.678 ppbv
 RT: 3.93 min Scan# 354
 Delta R.T. 0.00 min
 Lab File: VL034673.D
 Acq: 25 Feb 2020 15:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:101 Resp: 2223633
 Ion Ratio Lower Upper
 101 100
 103 68.6 52.3 78.5

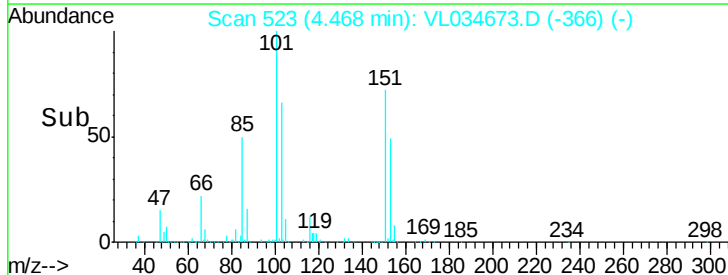
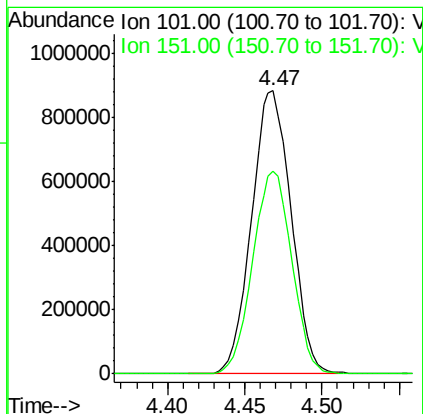
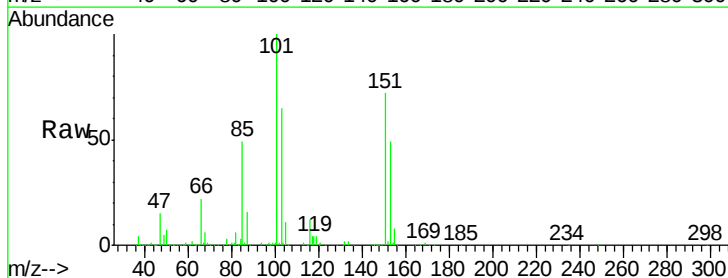
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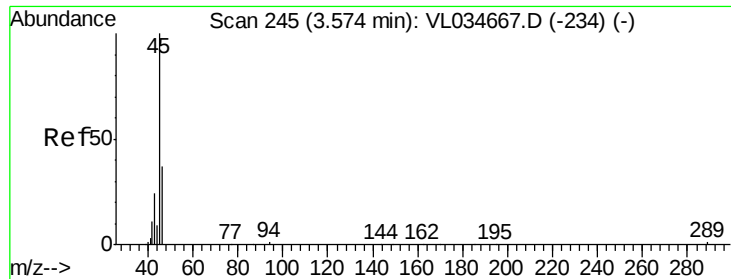
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 10.474 ppbv
 RT: 4.47 min Scan# 523
 Delta R.T. 0.00 min
 Lab File: VL034673.D
 Acq: 25 Feb 2020 15:09

Tgt Ion:101 Resp: 1570130
 Ion Ratio Lower Upper
 101 100
 151 70.9 55.5 83.3





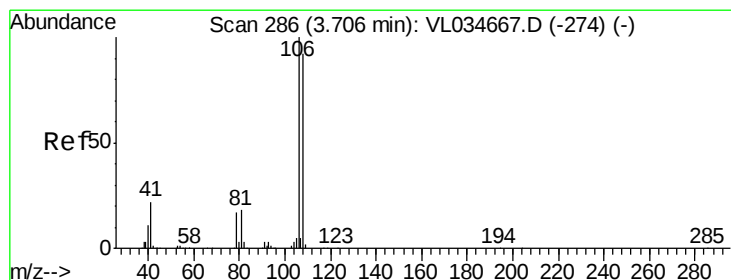
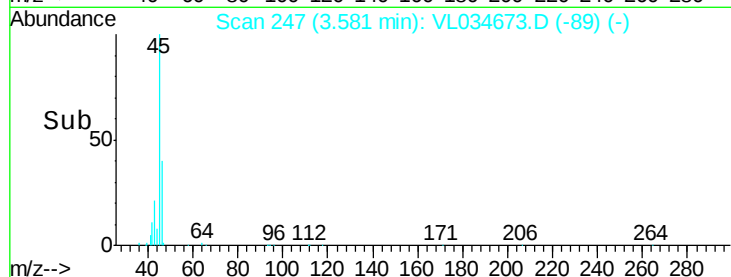
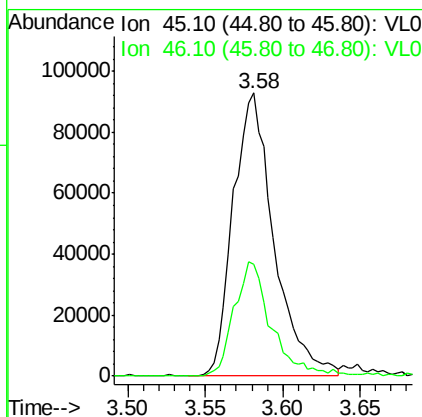
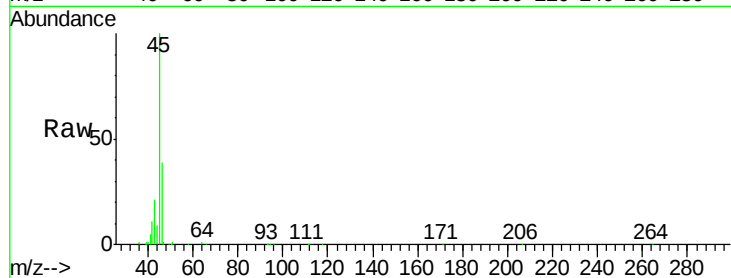
#13
Ethanol
Concen: 11.777 ppbv
RT: 3.58 min Scan# 247
Delta R.T. 0.01 min
Lab File: VL034673.D
Acq: 25 Feb 2020 15:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	45	Resp	170433
Ion Ratio	100	Lower	Upper
46	37.1	15.1	60.5

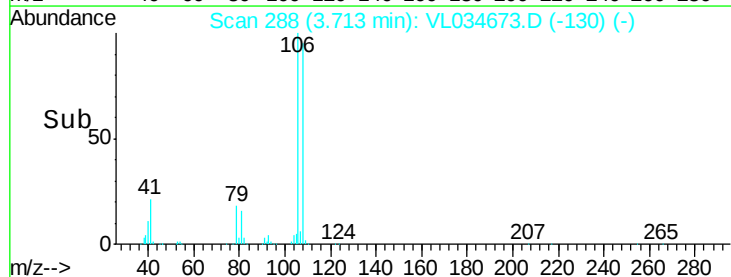
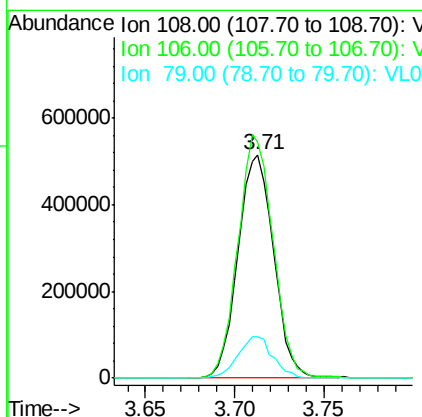
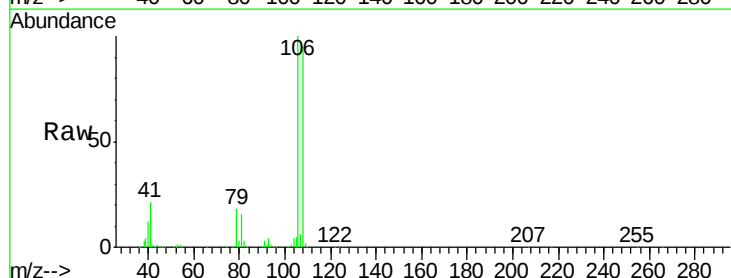
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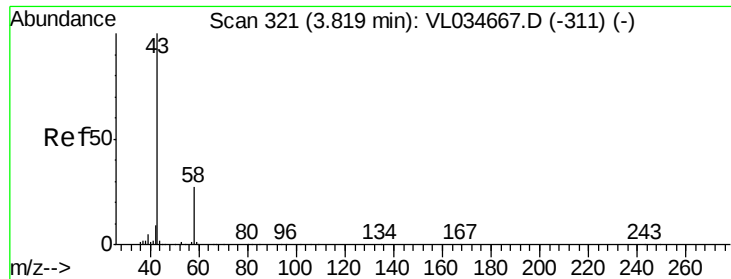
MMDadoda
2/26/2020 12:38:58 PM



#14
Bromoethene
Concen: 12.195 ppbv
RT: 3.71 min Scan# 288
Delta R.T. 0.01 min
Lab File: VL034673.D
Acq: 25 Feb 2020 15:09

Tgt Ion	108	Resp	717132
Ion Ratio	100	Lower	Upper
106	108.0	86.4	129.6
79	18.4	14.6	22.0





#15

Acetone

Concen: 10.933 ppbv

RT: 3.83 min Scan# 323

Delta R.T. 0.01 min

Lab File: VL034673.D

Acq: 25 Feb 2020 15:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 1845219

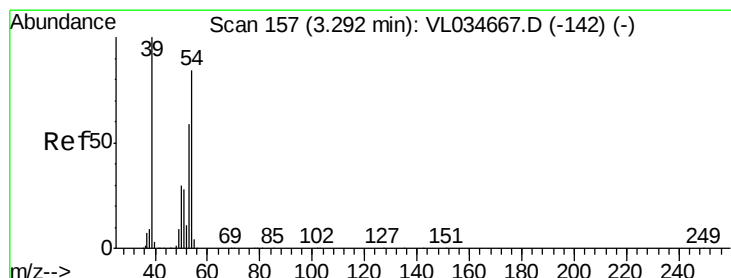
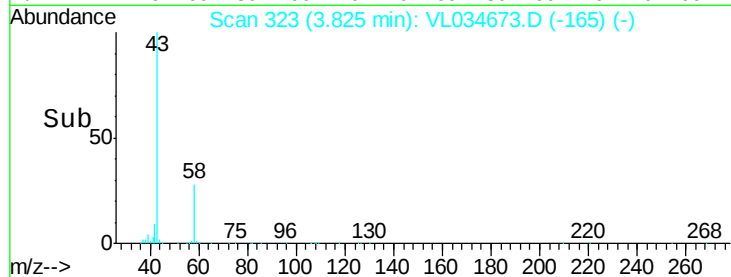
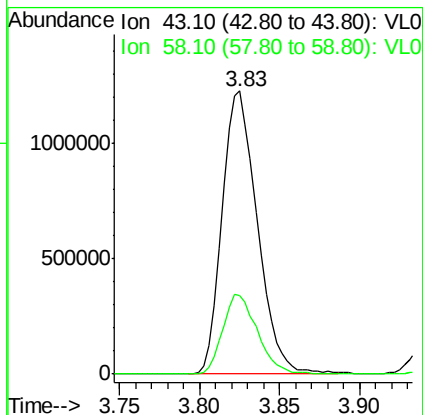
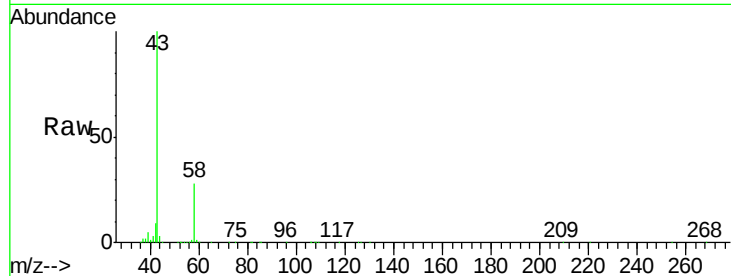
Ion Ratio Lower Upper

43 100

58 27.9 21.4 32.0

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#16

1,3-Butadiene

Concen: 14.113 ppbv

RT: 3.29 min Scan# 158

Delta R.T. 0.00 min

Lab File: VL034673.D

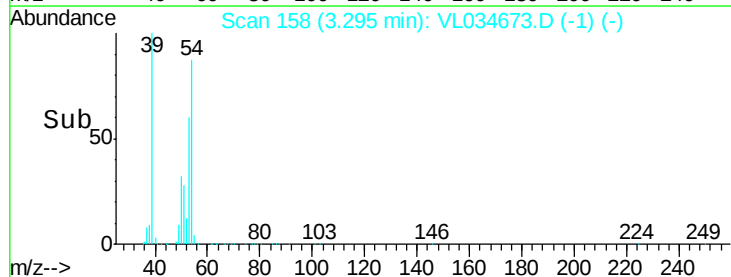
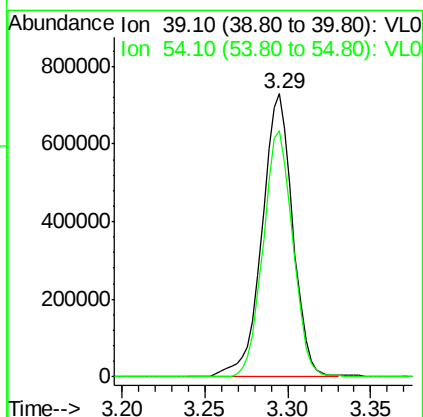
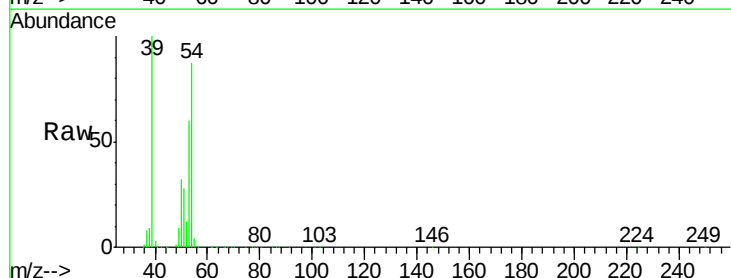
Acq: 25 Feb 2020 15:09

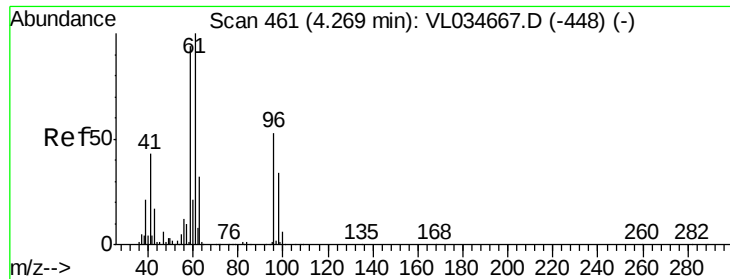
Tgt Ion: 39 Resp: 945857

Ion Ratio Lower Upper

39 100

54 84.6 68.2 102.2





#17

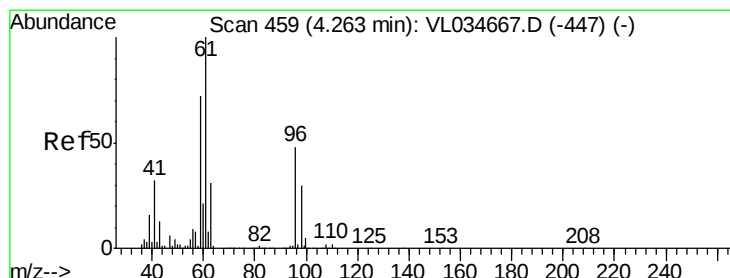
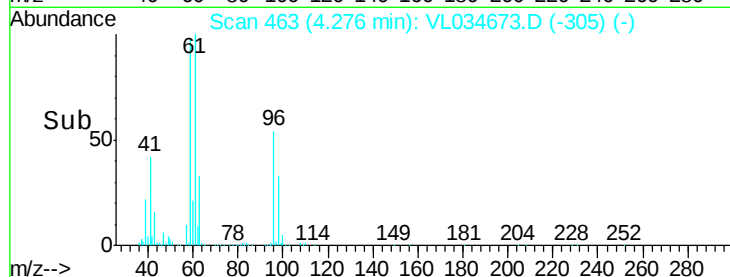
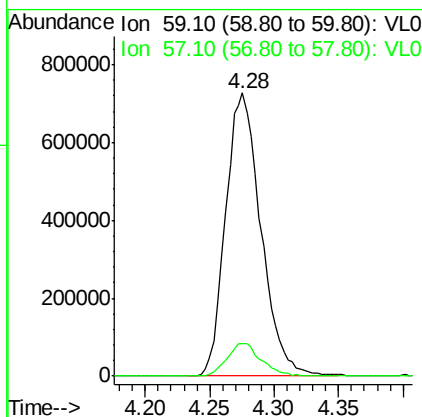
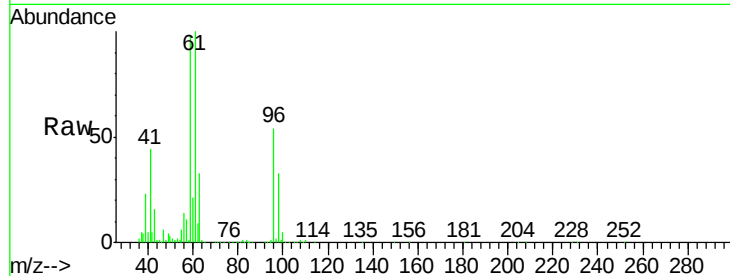
tert-Butyl alcohol
 Concen: 11.131 ppbv
 RT: 4.28 min Scan# 463
 Delta R.T. 0.01 min
 Lab File: VL034673.D
 Acq: 25 Feb 2020 15:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 59 Resp: 1381607
 Ion Ratio Lower Upper
 59 100
 57 11.2 8.8 13.2

Manual Integrations
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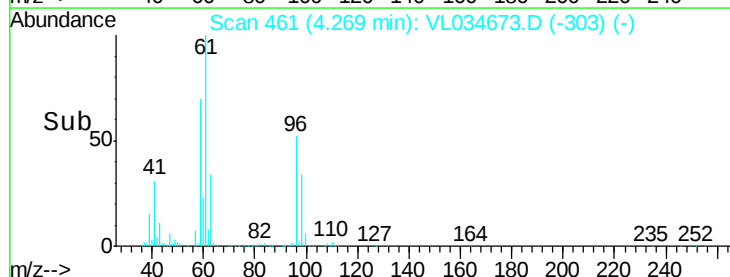
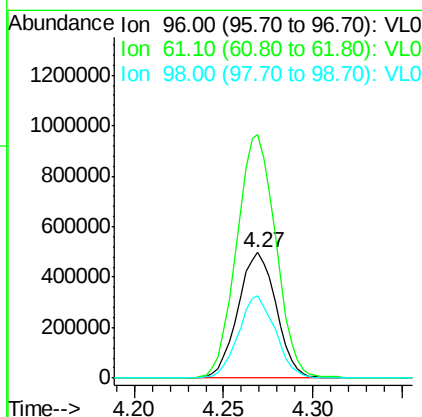
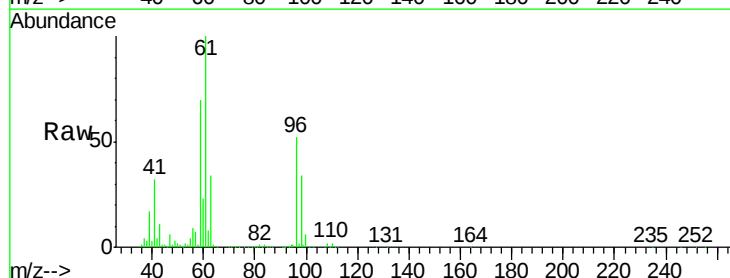
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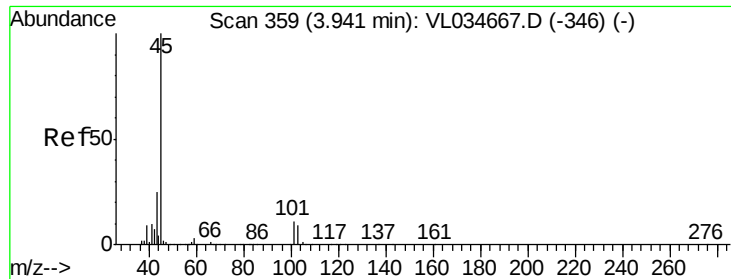


#18

1,1-Dichloroethene
 Concen: 11.757 ppbv
 RT: 4.27 min Scan# 461
 Delta R.T. 0.01 min
 Lab File: VL034673.D
 Acq: 25 Feb 2020 15:09

Tgt Ion: 96 Resp: 743999
 Ion Ratio Lower Upper
 96 100
 61 193.6 165.3 247.9
 98 65.4 48.9 73.3





#19

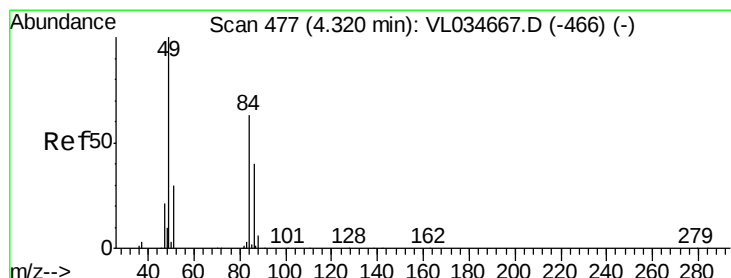
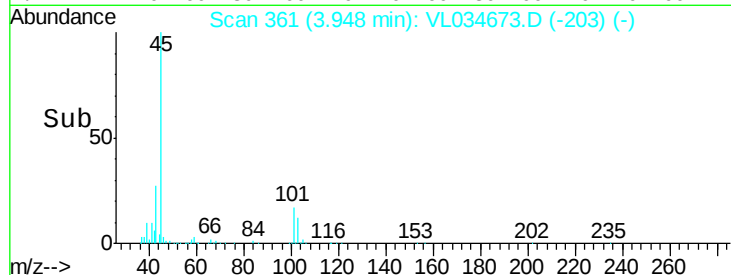
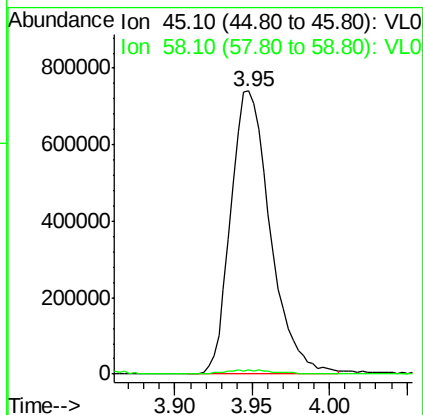
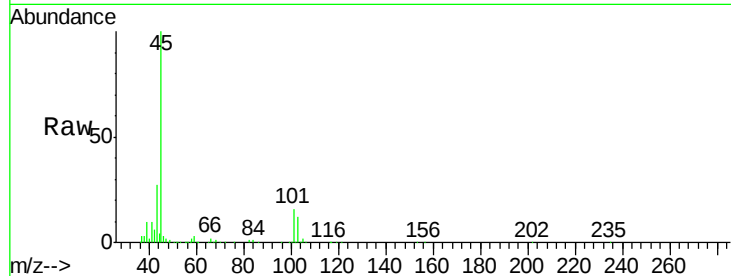
Isopropyl Alcohol
 Concen: 13.298 ppbv
 RT: 3.95 min Scan# 361
 Delta R.T. 0.01 min
 Lab File: VL034673.D
 Acq: 25 Feb 2020 15:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 45 Resp: 1309705
 Ion Ratio Lower Upper
 45 100
 58 2.2 1.8 2.8

Manual Integrations
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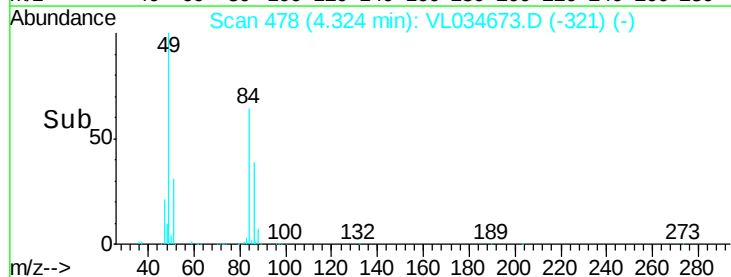
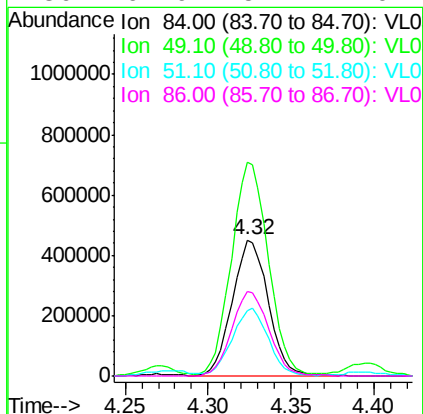
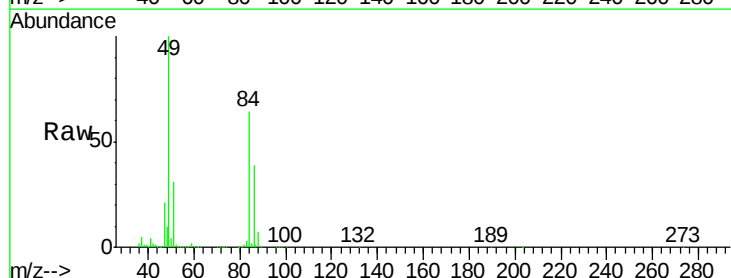
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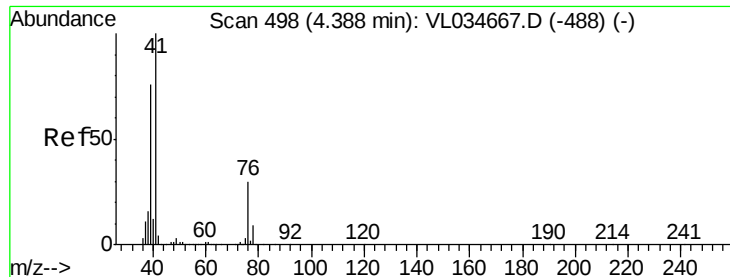


#20

Methylene Chloride
 Concen: 10.539 ppbv
 RT: 4.32 min Scan# 478
 Delta R.T. 0.00 min
 Lab File: VL034673.D
 Acq: 25 Feb 2020 15:09

Tgt Ion: 84 Resp: 677284
 Ion Ratio Lower Upper
 84 100
 49 155.2 127.6 191.4
 51 46.8 39.7 59.5
 86 61.9 51.1 76.7





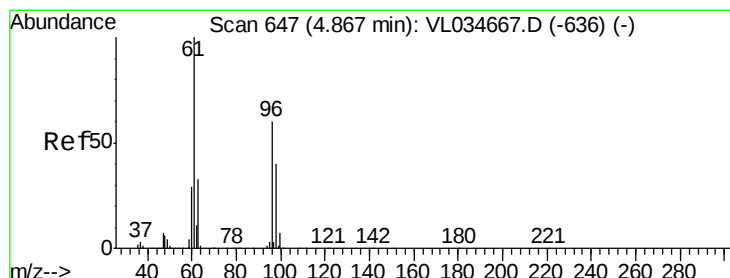
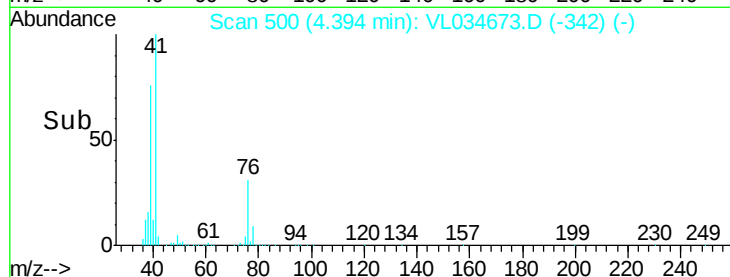
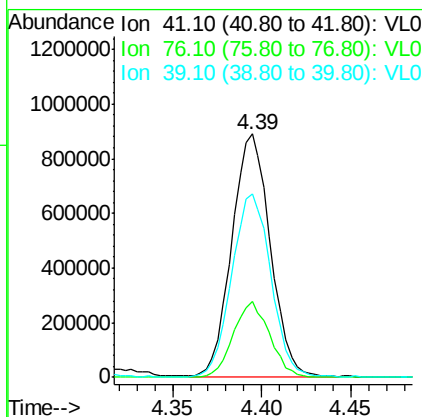
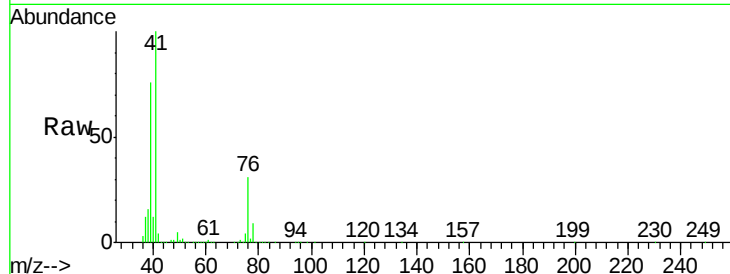
#21
Allvl Chloride
Concen: 12.735 ppbv
RT: 4.39 min Scan# 500
Delta R.T. 0.01 min
Lab File: VL034673.D
Acq: 25 Feb 2020 15:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 41 Resp: 1334884
Ion Ratio Lower Upper
41 100
76 29.7 23.6 35.4
39 77.3 61.6 92.4

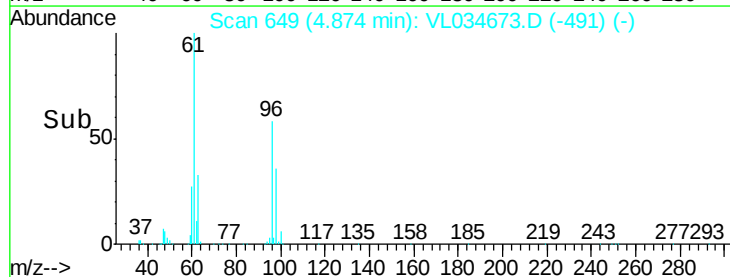
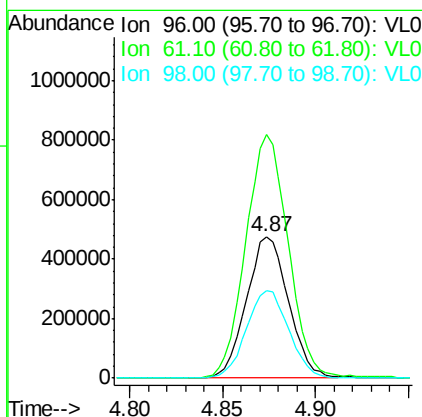
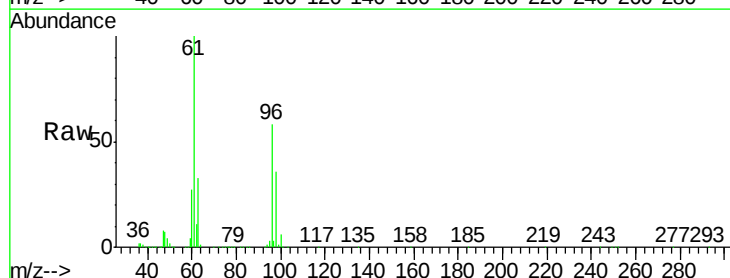
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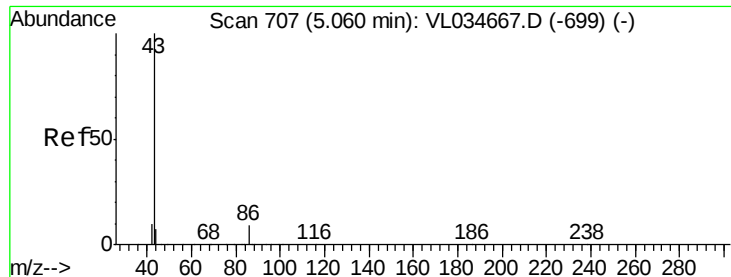
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#22
trans-1,2-Dichloroethene
Concen: 11.258 ppbv
RT: 4.87 min Scan# 649
Delta R.T. 0.01 min
Lab File: VL034673.D
Acq: 25 Feb 2020 15:09

Tgt Ion: 96 Resp: 746119
Ion Ratio Lower Upper
96 100
61 171.6 134.3 201.5
98 61.6 53.8 80.8





#23

Vinyl Acetate

Concen: 14.403 ppbv

RT: 5.07 min Scan# 709

Delta R.T. 0.01 min

Lab File: VL034673.D

Acq: 25 Feb 2020 15:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 2773263

Ion Ratio Lower Upper

43 100

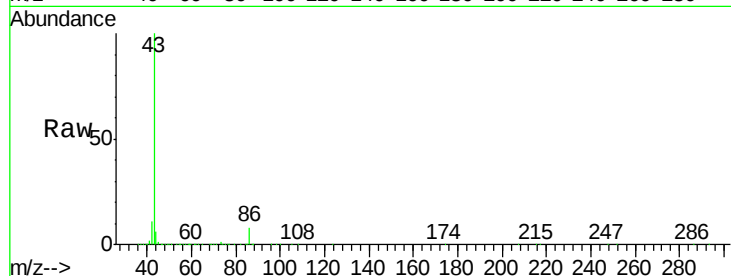
86 7.9 6.3 9.5

42 10.6 8.6 12.8

44 5.7 4.9 7.3

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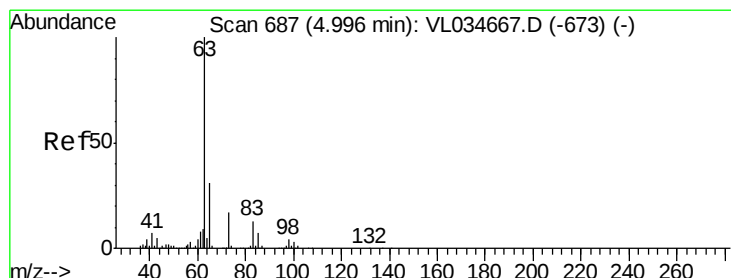
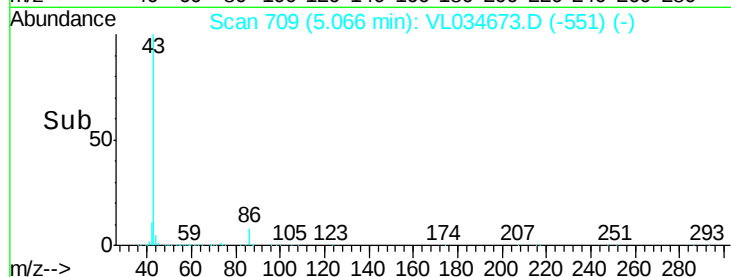
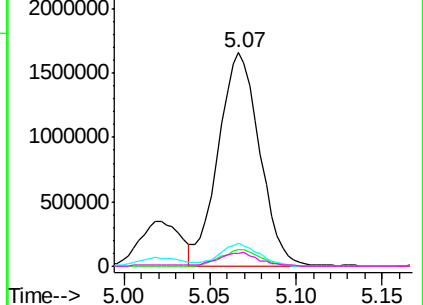


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 12.968 ppbv

RT: 5.00 min Scan# 689

Delta R.T. 0.01 min

Lab File: VL034673.D

Acq: 25 Feb 2020 15:09

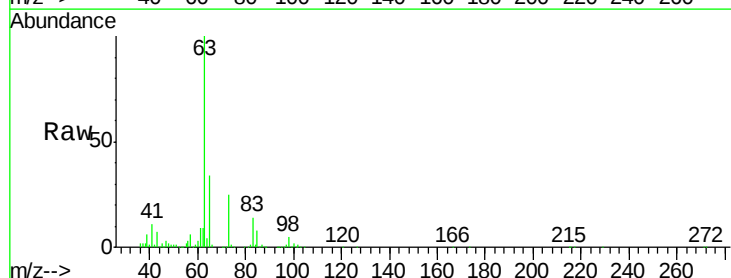
Tgt Ion: 63 Resp: 2084733

Ion Ratio Lower Upper

63 100

98 5.0 2.2 6.6

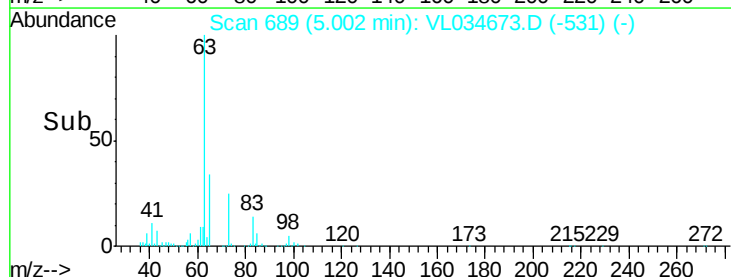
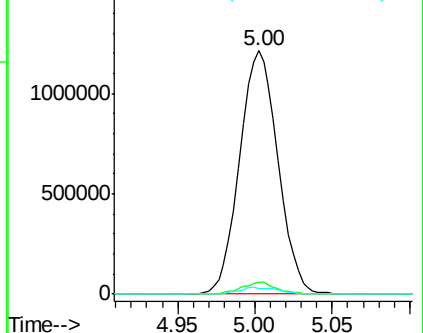
100 2.5 1.4 4.2

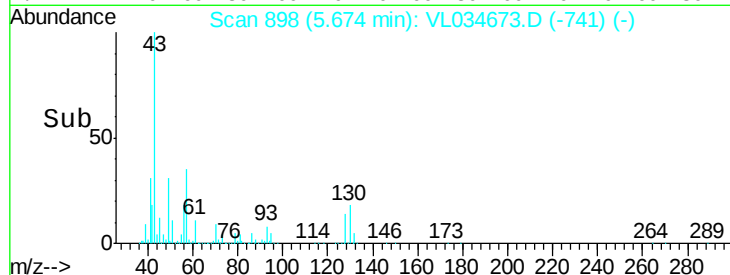
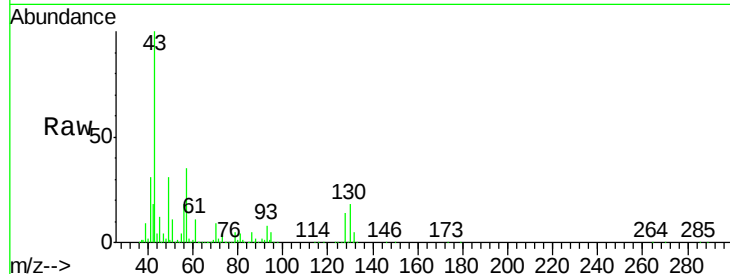
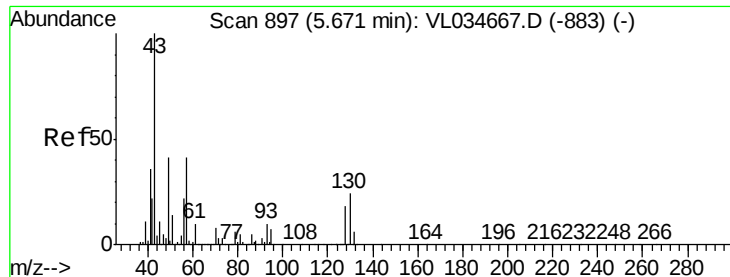


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 13.332 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.00 min

Lab File: VL034673.D

Acq: 25 Feb 2020 15:09

Tot Ion: 43 Resp: 3642788

Ion Ratio Lower Upper

43 100

45 10.9 8.3 12.5

61 10.5 7.8 11.6

70 7.8 6.0 9.0

Instrument :

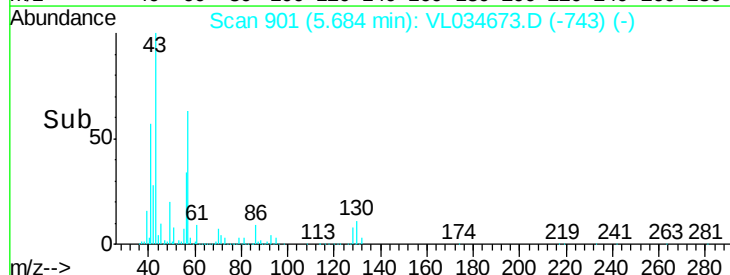
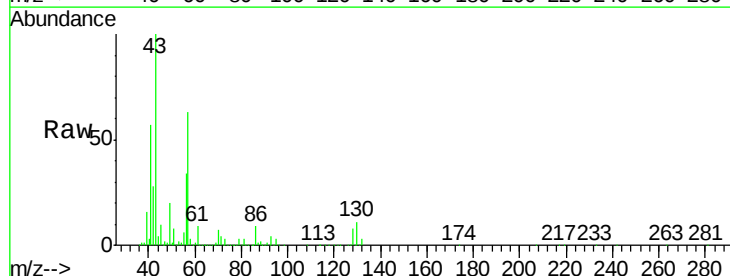
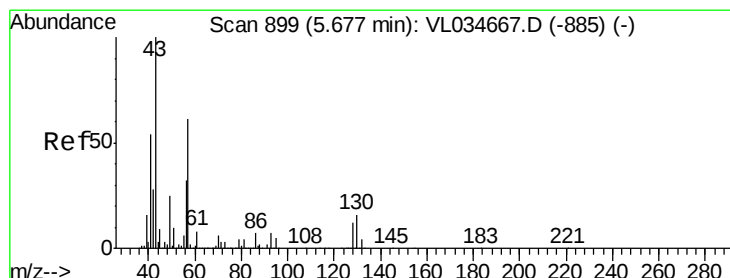
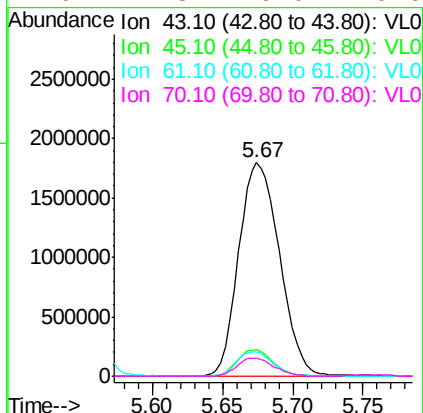
MSVOA_L

ClientSampleId :

VSTDIC015

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#26

Hexane

Concen: 14.455 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.01 min

Lab File: VL034673.D

Acq: 25 Feb 2020 15:09

Tgt Ion: 57 Resp: 1654326

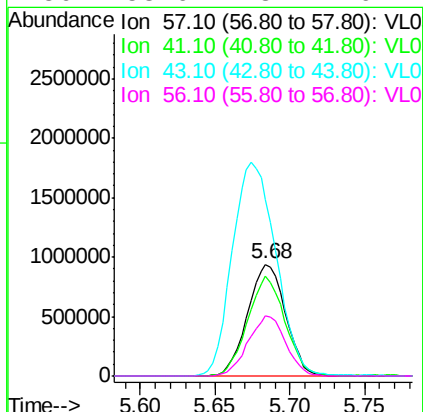
Ion Ratio Lower Upper

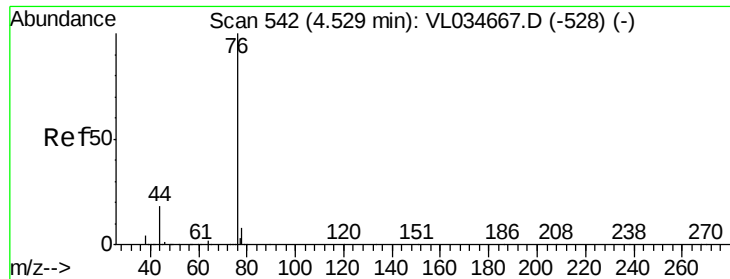
57 100

41 88.7 72.0 108.0

43 221.8 178.7 268.1

56 53.6 43.1 64.7





#27

Carbon Disulfide

Concen: 12.841 ppbv

RT: 4.53 min Scan# 543

Delta R.T. 0.00 min

Lab File: VL034673.D

Acq: 25 Feb 2020 15:09

Tot Ion	Ratio	Lower	Upper
76	100		
44	19.1	15.0	22.4
78	9.6	7.7	11.5

Instrument :

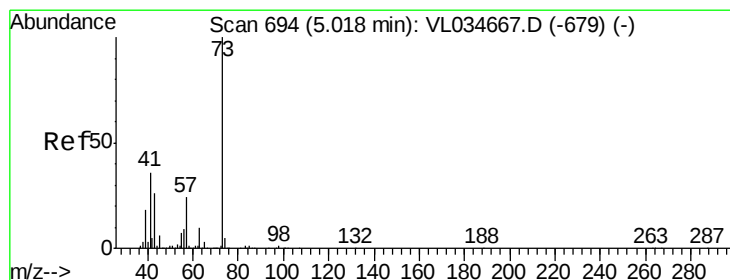
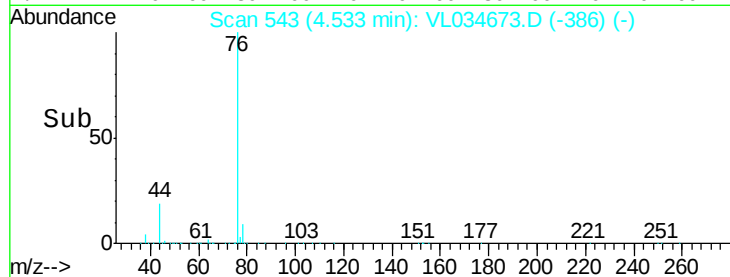
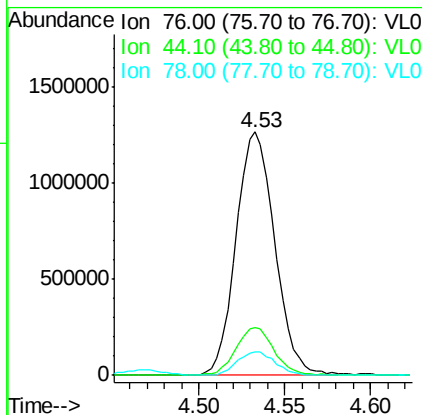
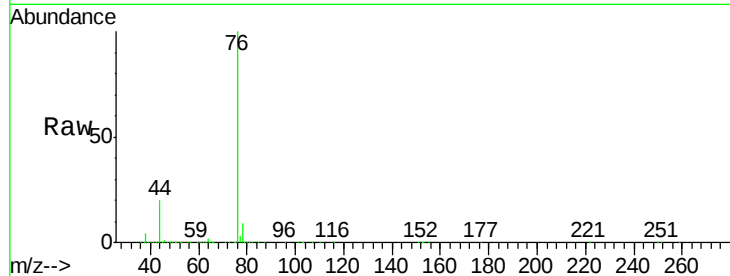
MSVOA_L

ClientSampleId :

VSTDIC015

Manual Integrations
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2/26/2020 12:38:58 PM



#28

Methyl tert-Butyl Ether

Concen: 12.096 ppbv

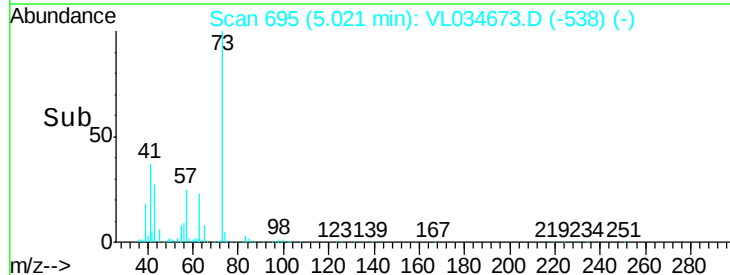
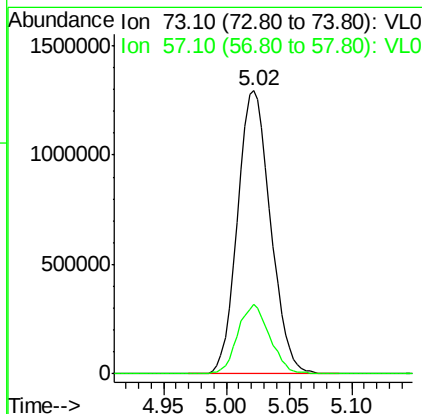
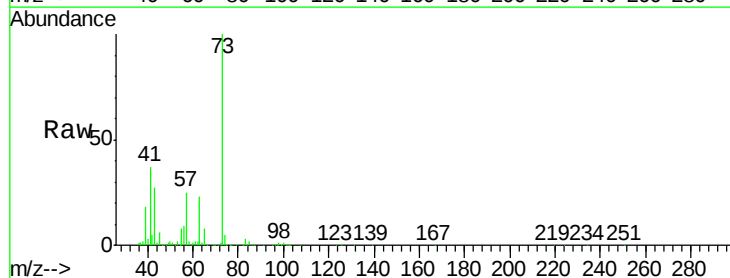
RT: 5.02 min Scan# 695

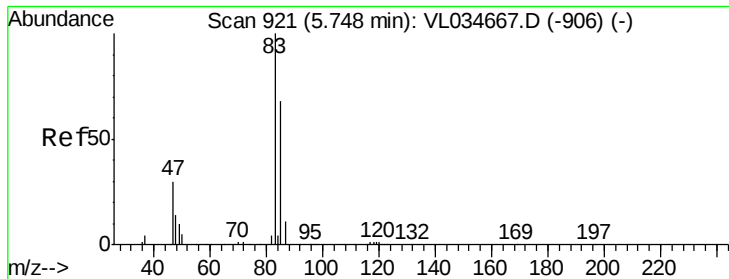
Delta R.T. 0.00 min

Lab File: VL034673.D

Acq: 25 Feb 2020 15:09

Tgt Ion	Ratio	Lower	Upper
73	100		
57	24.0	18.7	28.1





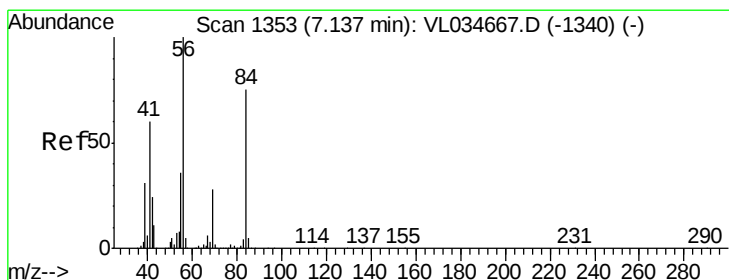
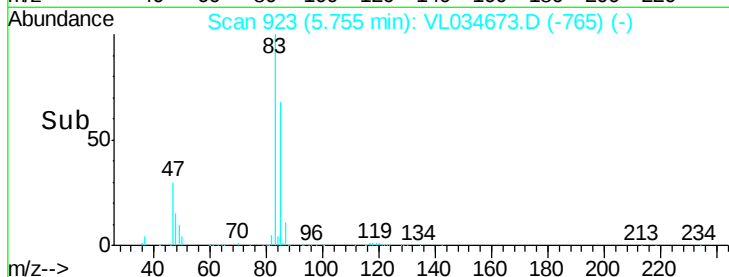
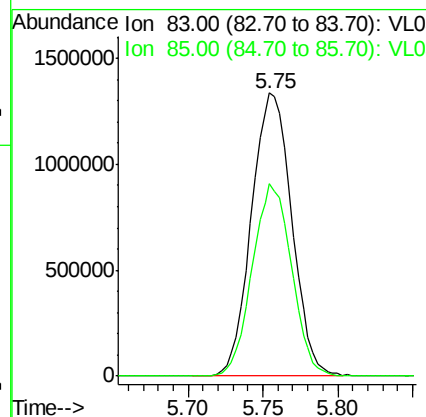
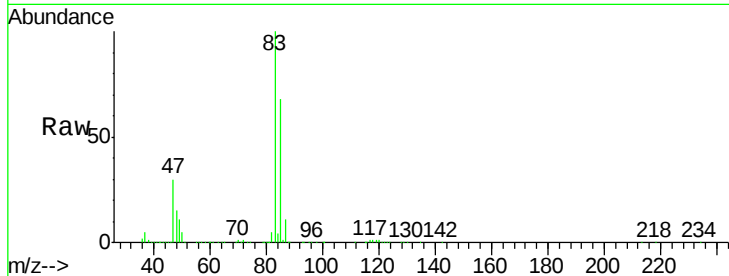
#29
Chloroform
Concen: 12.375 ppbv
RT: 5.75 min Scan# 923
Delta R.T. 0.01 min
Lab File: VL034673.D
Acq: 25 Feb 2020 15:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 2504352
Ion Ratio Lower Upper
83 100
85 67.9 54.7 82.1

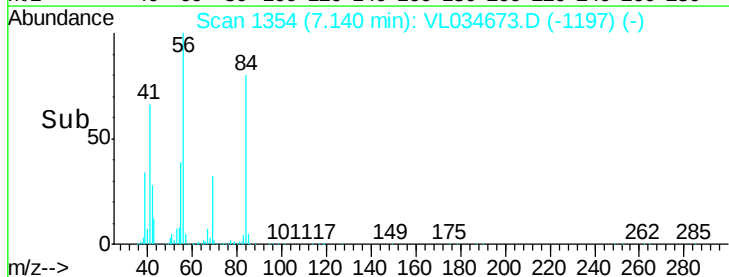
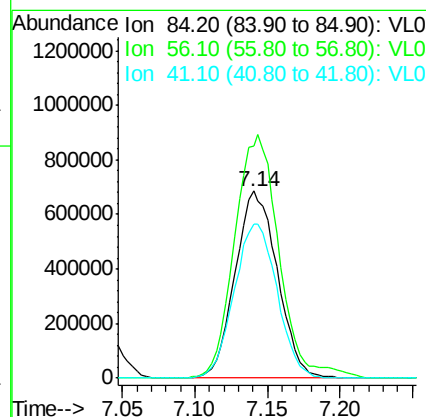
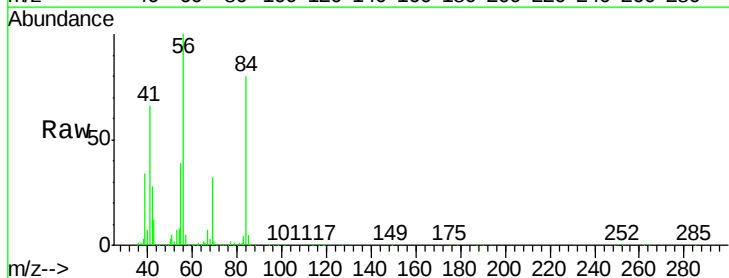
Manual Integrations
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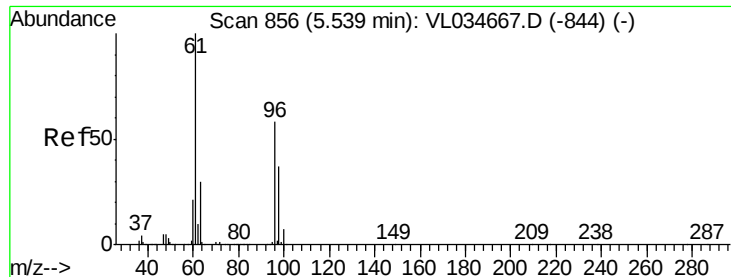
MMDadoda
2/26/2020 12:38:58 PM



#30
Cyclohexane
Concen: 16.291 ppbv
RT: 7.14 min Scan# 1354
Delta R.T. 0.00 min
Lab File: VL034673.D
Acq: 25 Feb 2020 15:09

Tgt Ion: 84 Resp: 1381611
Ion Ratio Lower Upper
84 100
56 137.8 113.4 170.2
41 84.6 69.5 104.3





#31

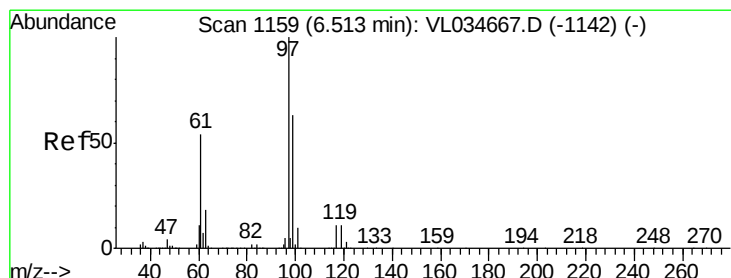
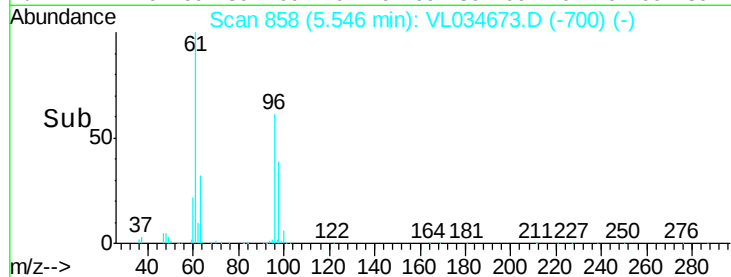
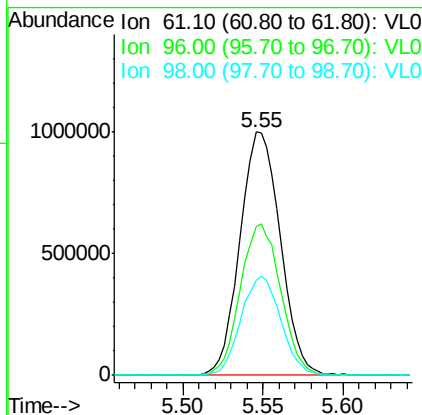
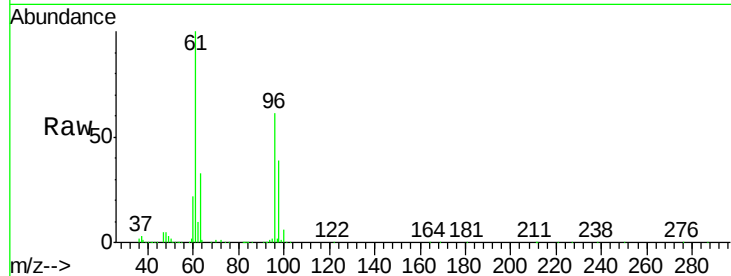
cis-1,2-Dichloroethene
 Concen: 14.452 ppbv
 RT: 5.55 min Scan# 858
 Delta R.T. 0.01 min
 Lab File: VL034673.D
 Acq: 25 Feb 2020 15:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
61	100		
96	61.1	46.6	69.8
98	39.3	29.3	43.9

Manual Integrations
 APPROVED

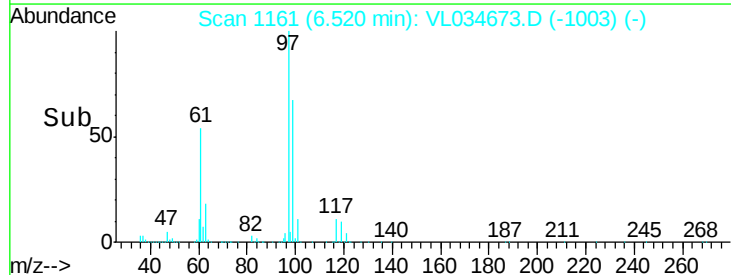
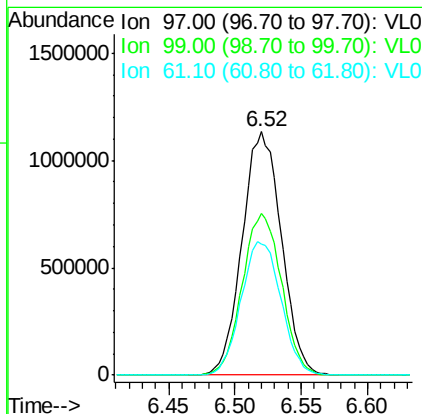
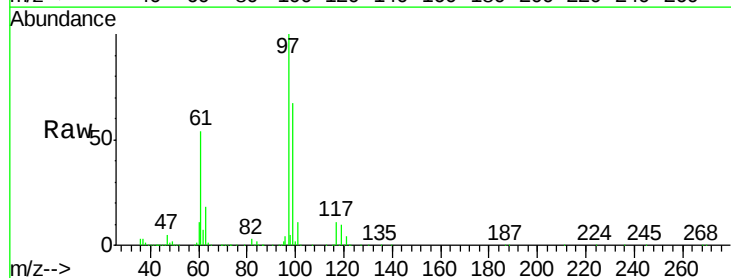
MMDadoda
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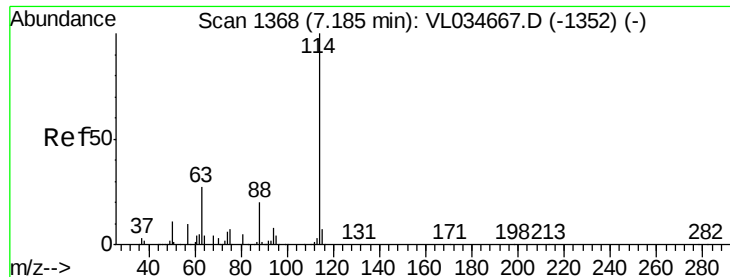


#32

1,1,1-Trichloroethane
 Concen: 10.772 ppbv
 RT: 6.52 min Scan# 1161
 Delta R.T. 0.01 min
 Lab File: VL034673.D
 Acq: 25 Feb 2020 15:09

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.3	52.2	78.2
61	55.7	44.5	66.7





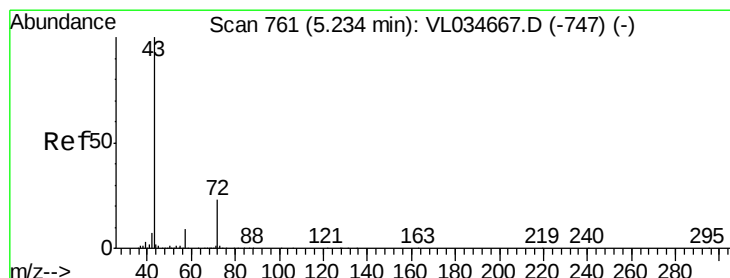
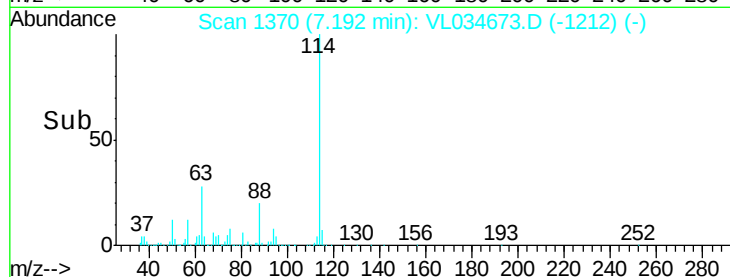
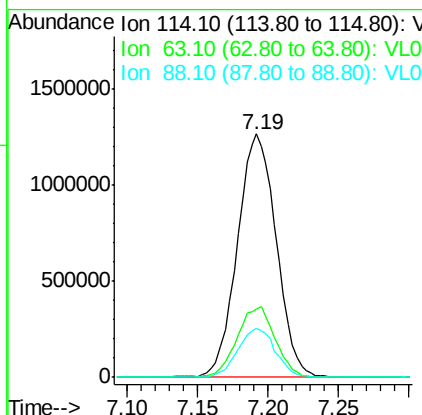
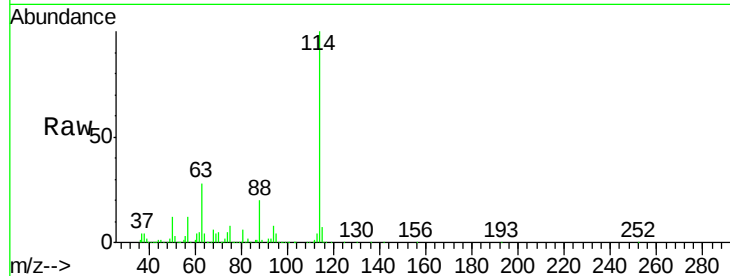
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. 0.01 min
 Lab File: VL034673.D
 Acq: 25 Feb 2020 15:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
114	100		
63	29.3	23.1	34.7
88	19.6	15.6	23.4

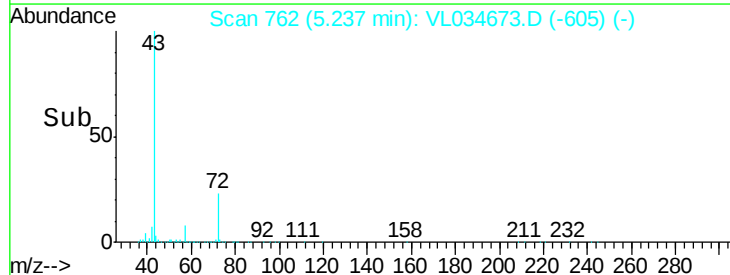
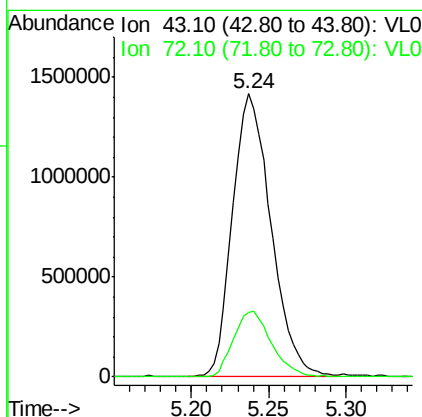
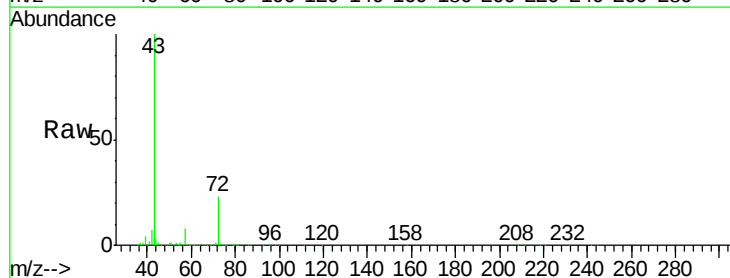
Manual Integrations
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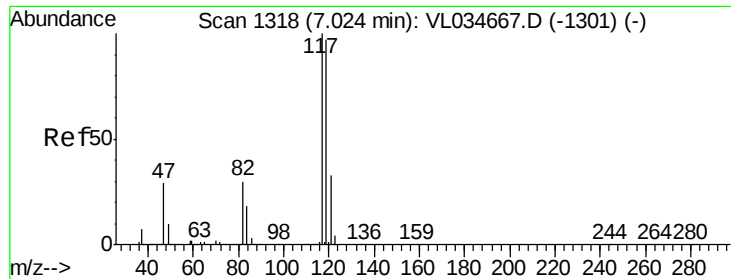
MMDadoda
 2/26/2020 12:38:58 PM



#34
 2-Butanone
 Concen: 13.782 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. 0.00 min
 Lab File: VL034673.D
 Acq: 25 Feb 2020 15:09

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.1	17.8	26.8





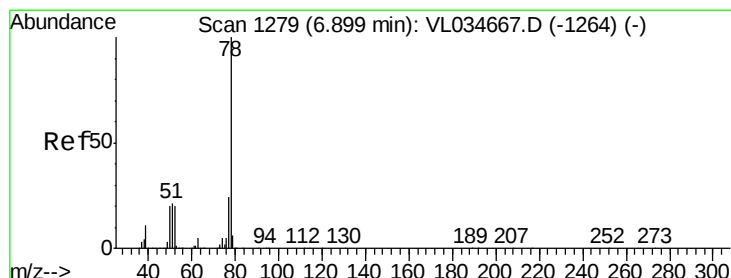
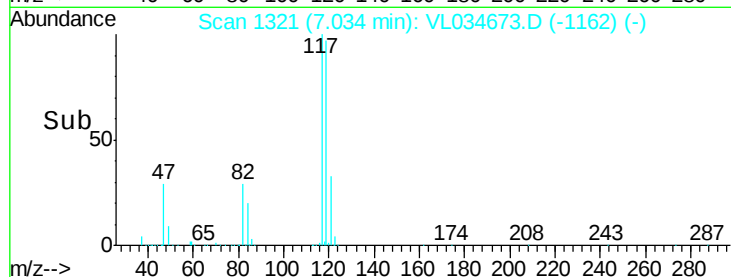
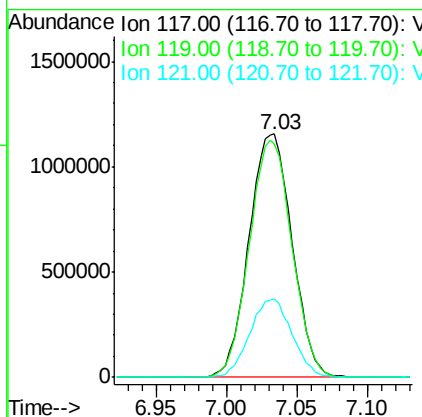
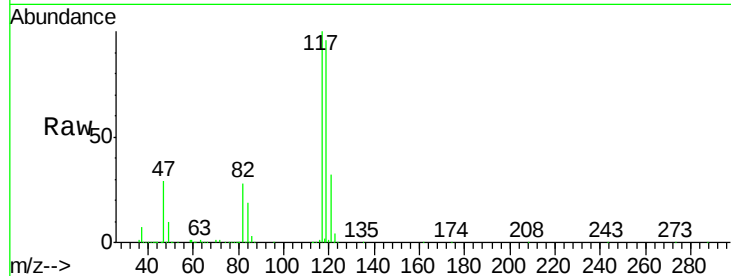
#35
Carbon Tetrachloride
Concen: 10.550 ppbv
RT: 7.03 min Scan# 1321
Delta R.T. 0.01 min
Lab File: VL034673.D
Acq: 25 Feb 2020 15:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
117	100		
119	95.7	77.2	115.8
121	32.1	26.1	39.1

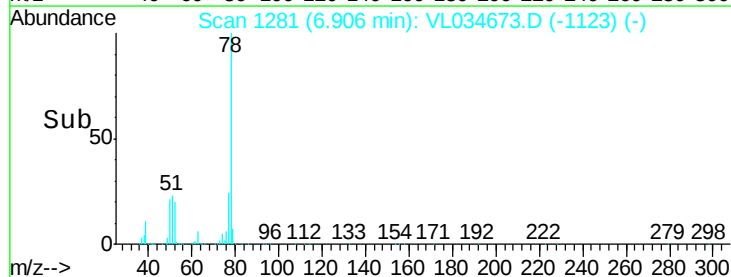
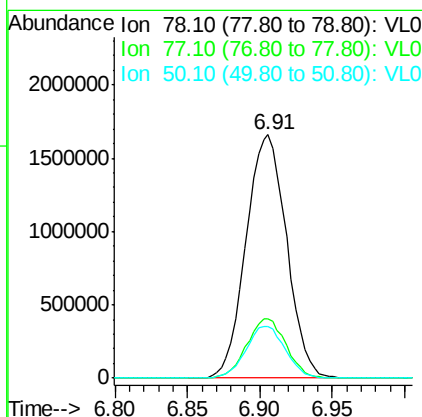
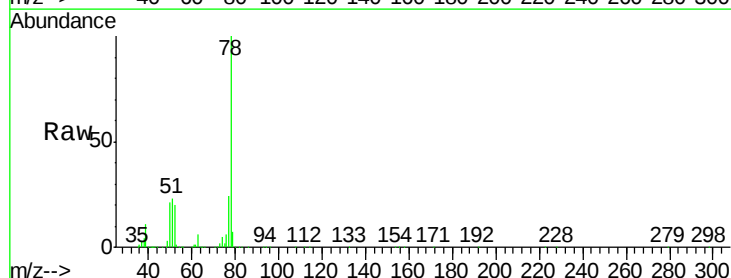
Manual Integrations
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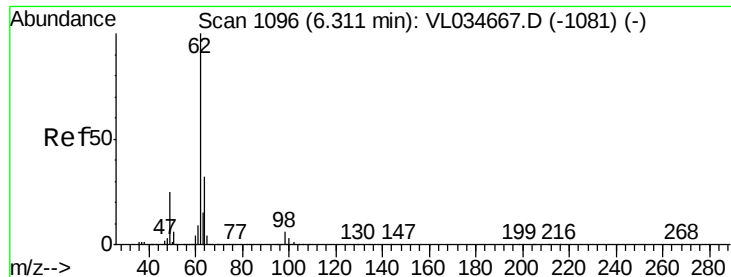
MMDadoda
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#36
Benzene
Concen: 14.876 ppbv
RT: 6.91 min Scan# 1281
Delta R.T. 0.01 min
Lab File: VL034673.D
Acq: 25 Feb 2020 15:09

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.5	19.2	28.8
50	21.4	15.9	23.9





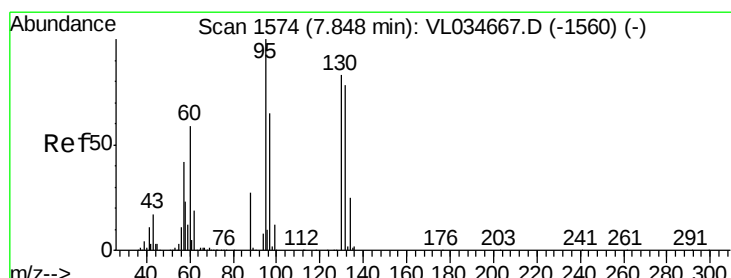
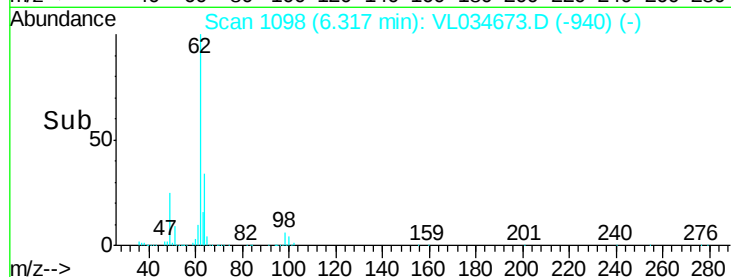
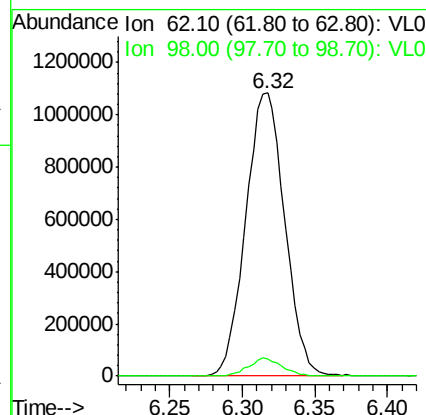
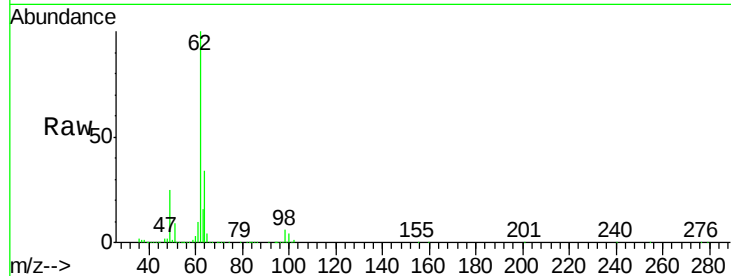
#37
 1,2-Dichloroethane
 Concen: 11.198 ppbv
 RT: 6.32 min Scan# 1098
 Delta R.T. 0.01 min
 Lab File: VL034673.D
 Acq: 25 Feb 2020 15:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.7	4.5	6.7

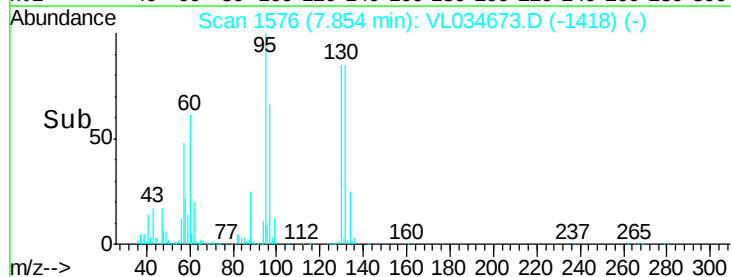
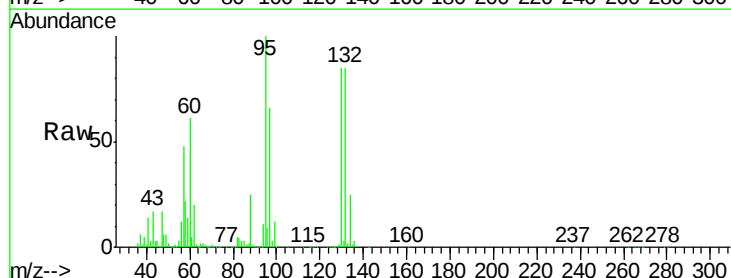
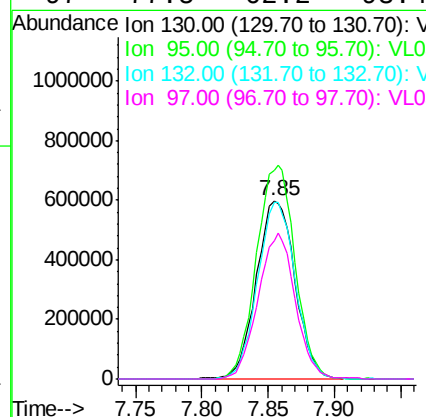
Manual Integrations
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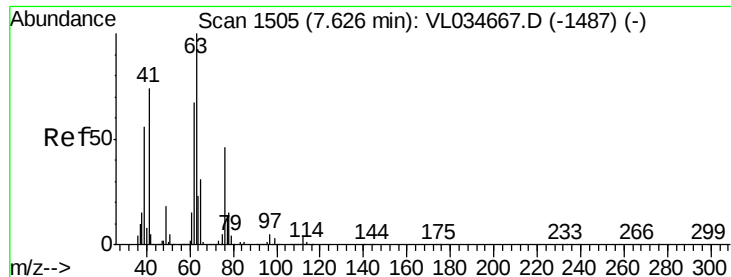
MMDadoda
 2/26/2020 12:38:58 PM



#38
 Trichloroethene
 Concen: 13.269 ppbv
 RT: 7.85 min Scan# 1576
 Delta R.T. 0.01 min
 Lab File: VL034673.D
 Acq: 25 Feb 2020 15:09

Tgt Ion	Ratio	Lower	Upper
130	100		
95	117.4	96.1	144.1
132	99.5	74.6	112.0
97	77.5	62.2	93.4





#39

1,2-Dichloropropane

Concen: 14.911 ppbv

RT: 7.63 min Scan# 1506

Delta R.T. 0.00 min

Lab File: VL034673.D

Acq: 25 Feb 2020 15:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 63 Resp: 1342740

Ion Ratio Lower Upper

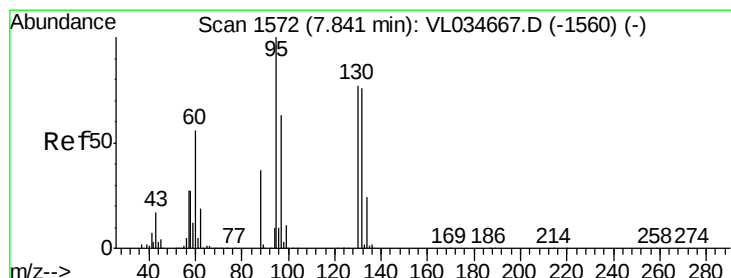
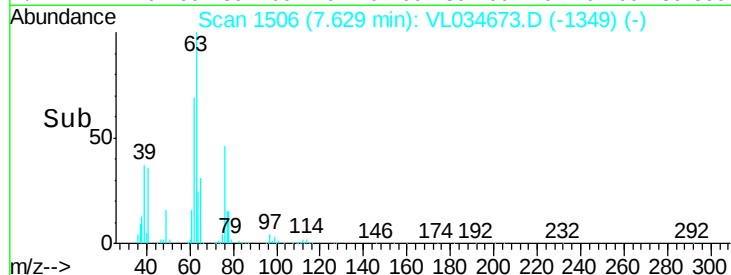
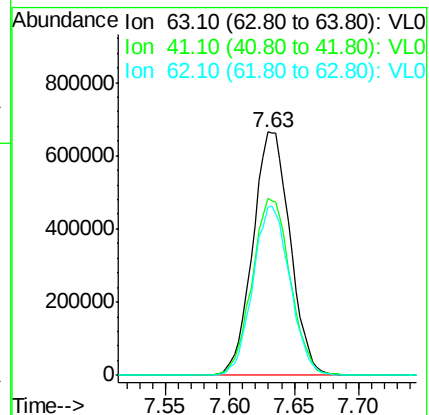
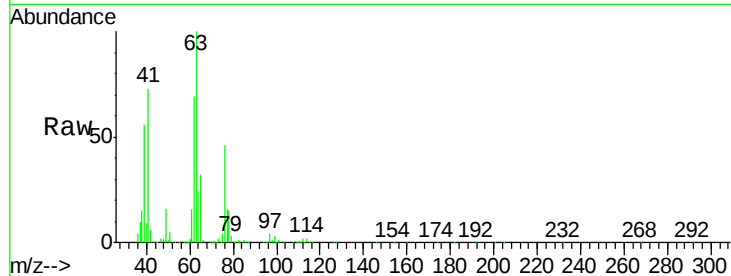
63 100

41 72.6 58.9 88.3

62 68.9 53.8 80.8

Manual Integrations
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#40

1,4-Dioxane

Concen: 13.707 ppbv

RT: 7.85 min Scan# 1575

Delta R.T. 0.01 min

Lab File: VL034673.D

Acq: 25 Feb 2020 15:09

Tgt Ion: 88 Resp: 474481

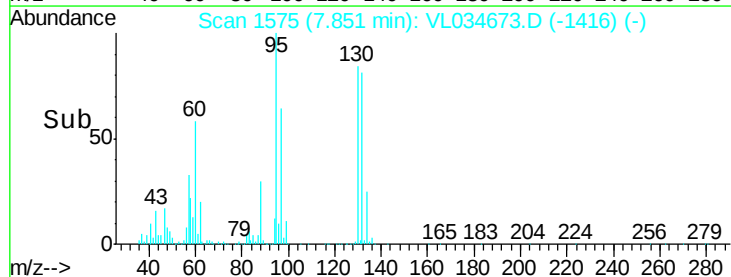
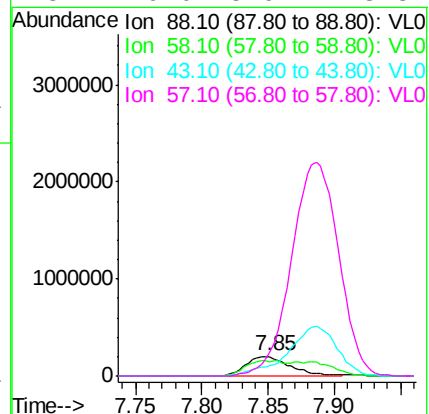
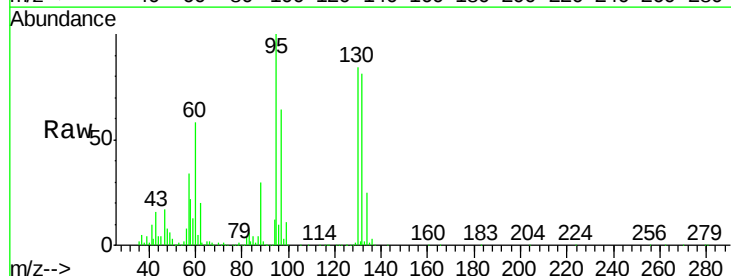
Ion Ratio Lower Upper

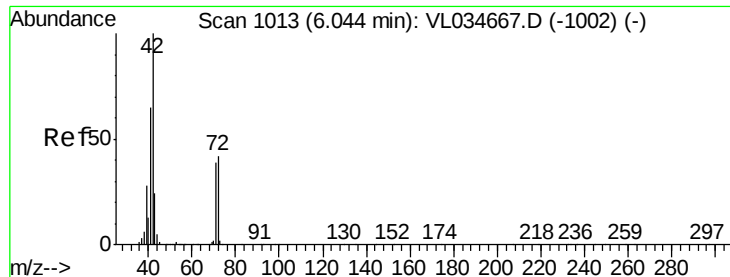
88 100

58 136.7 108.6 163.0

43 0.0 208.1 312.1#

57 0.0 879.1 1318.7#





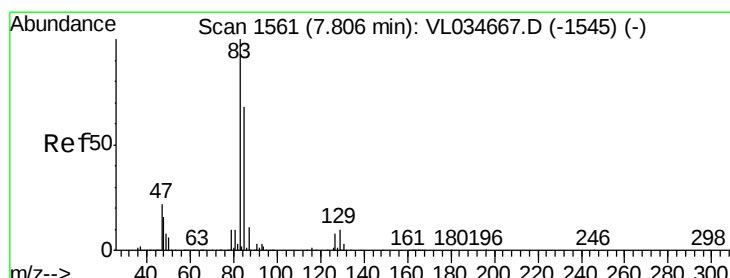
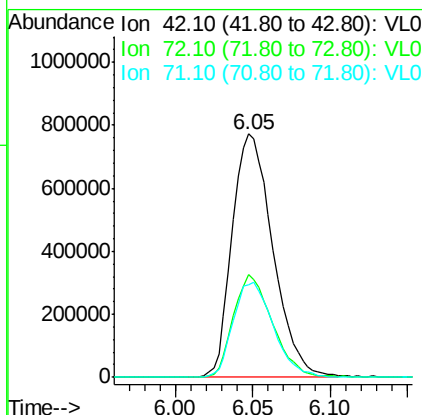
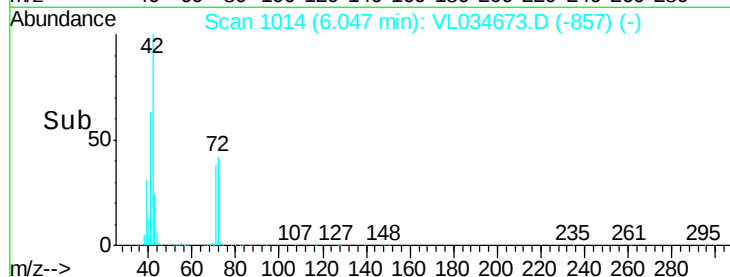
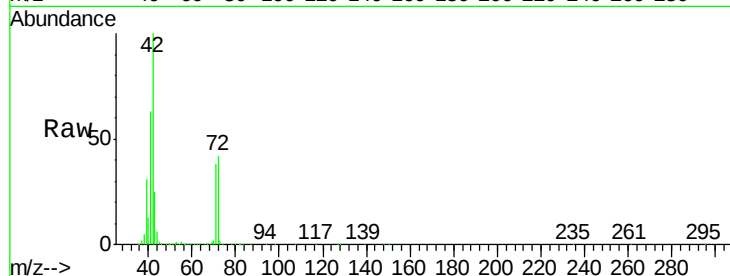
#41
Tetrahydrofuran
Concen: 15.256 ppbv
RT: 6.05 min Scan# 1014
Delta R.T. 0.00 min
Lab File: VL034673.D
Acq: 25 Feb 2020 15:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 42 Resp: 1411567
Ion Ratio Lower Upper
42 100
72 40.6 31.5 47.3
71 38.8 30.3 45.5

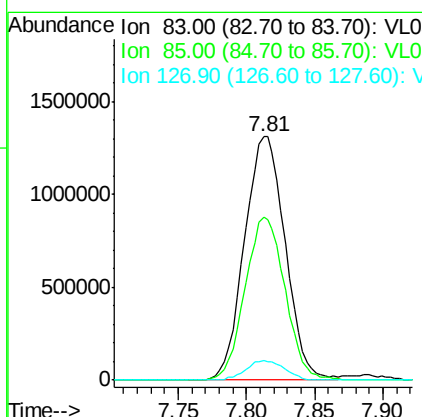
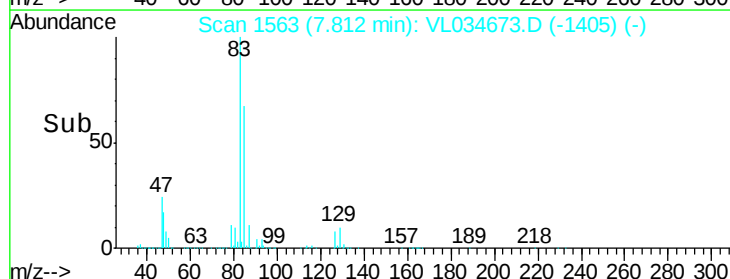
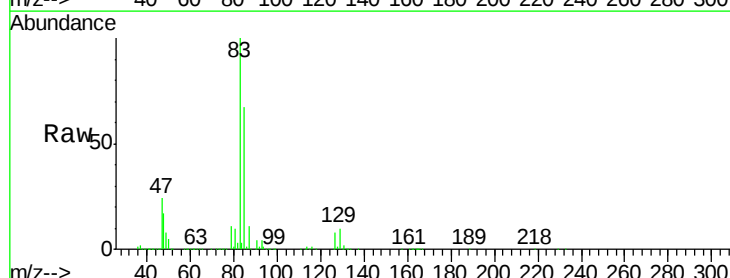
Manual Integrations
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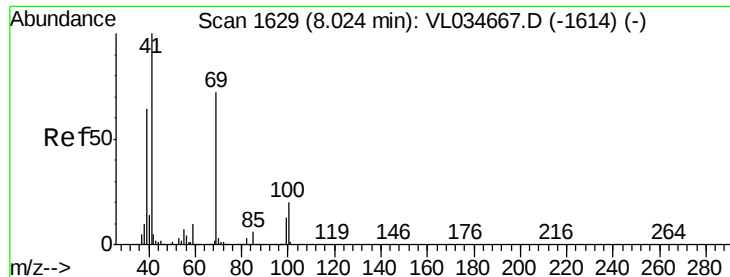
MMDadoda
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#42
Bromodichloromethane
Concen: 12.191 ppbv
RT: 7.81 min Scan# 1563
Delta R.T. 0.01 min
Lab File: VL034673.D
Acq: 25 Feb 2020 15:09

Tgt Ion: 83 Resp: 2719331
Ion Ratio Lower Upper
83 100
85 67.0 54.2 81.4
127 8.2 6.2 9.4





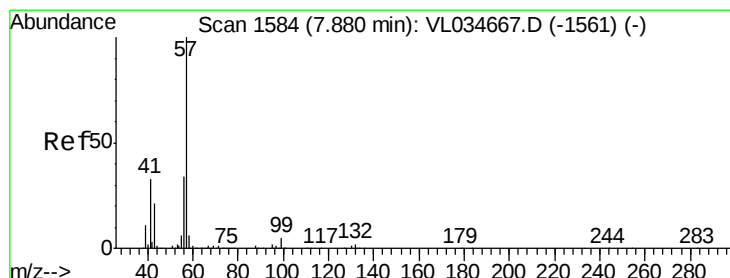
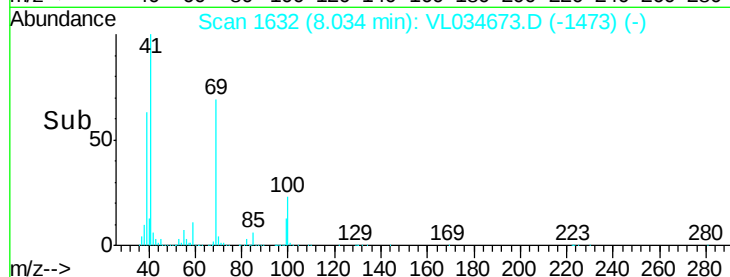
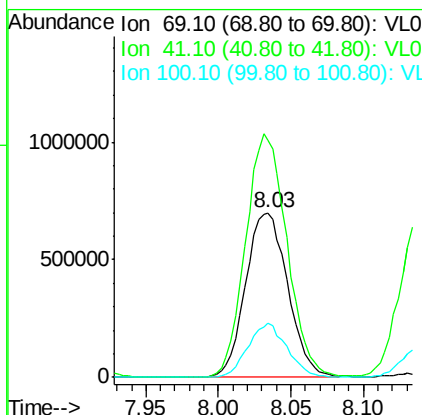
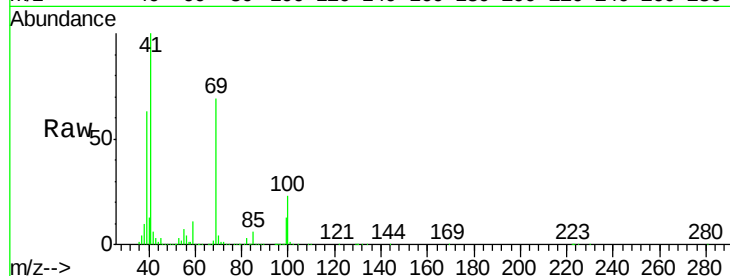
#43
Methvl Methacrilate
Concen: 16.189 ppbv
RT: 8.03 min Scan# 1632
Delta R.T. 0.01 min
Lab File: VL034673.D
Acq: 25 Feb 2020 15:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 69 Resp: 1414406
Ion Ratio Lower Upper
69 100
41 144.8 116.4 174.6
100 30.6 24.3 36.5

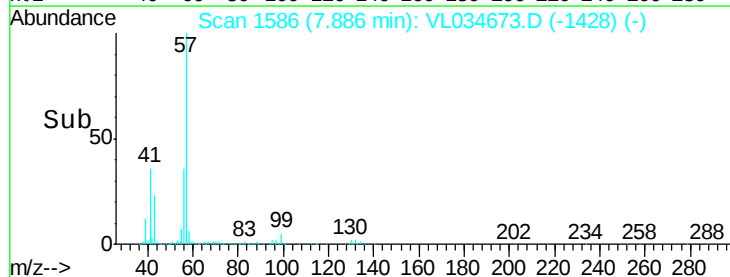
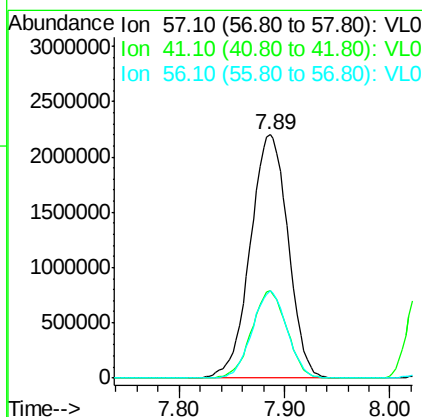
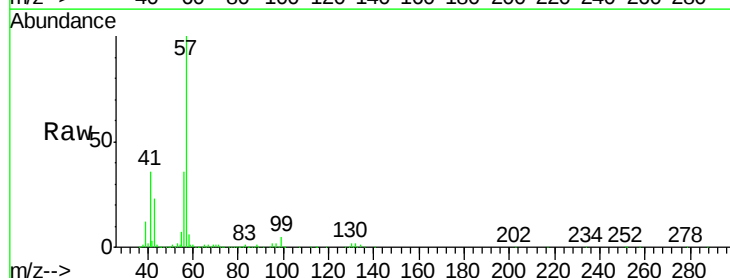
Manual Integrations
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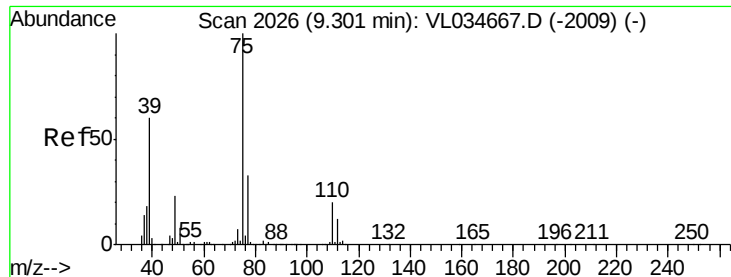
MMDadoda
2/26/2020 12:38:58 PM



#44
2,2,4-Trimethylpentane
Concen: 13.921 ppbv
RT: 7.89 min Scan# 1586
Delta R.T. 0.01 min
Lab File: VL034673.D
Acq: 25 Feb 2020 15:09

Tgt Ion: 57 Resp: 5486404
Ion Ratio Lower Upper
57 100
41 33.6 26.1 39.1
56 33.2 25.4 38.2





#45

t-1,3-Dichloropropene

Concen: 15.661 ppbv

RT: 9.30 min Scan# 2027

Delta R.T. 0.00 min

Lab File: VL034673.D

Acq: 25 Feb 2020 15:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 75 Resp: 1791724

Ion Ratio Lower Upper

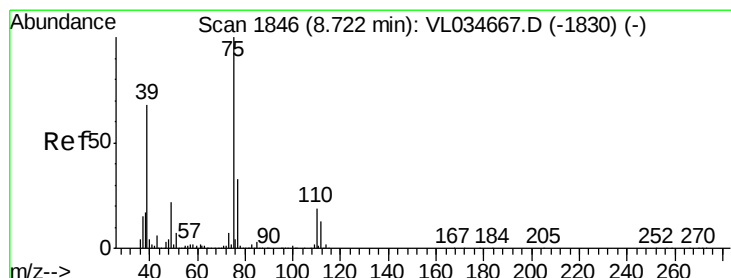
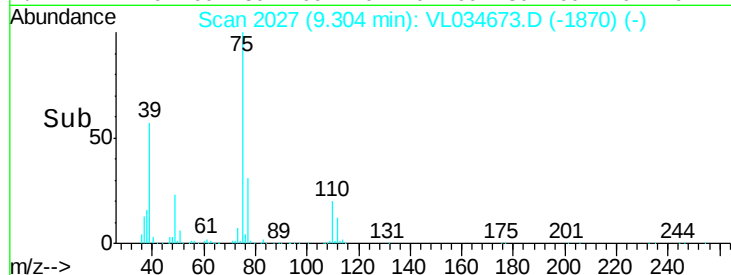
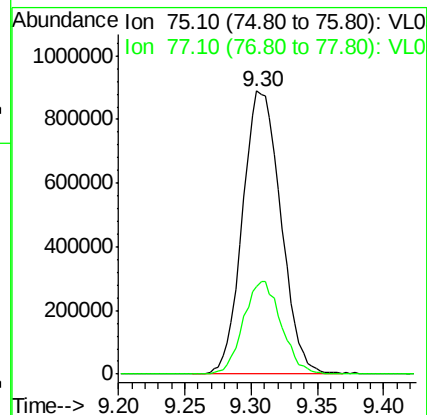
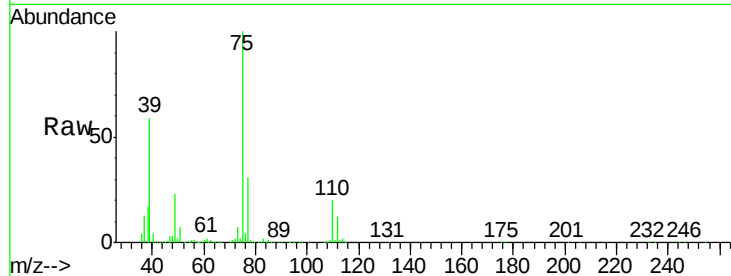
75 100

77 31.0 26.3 39.5

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#46

cis-1,3-Dichloropropene

Concen: 15.610 ppbv

RT: 8.73 min Scan# 1848

Delta R.T. 0.01 min

Lab File: VL034673.D

Acq: 25 Feb 2020 15:09

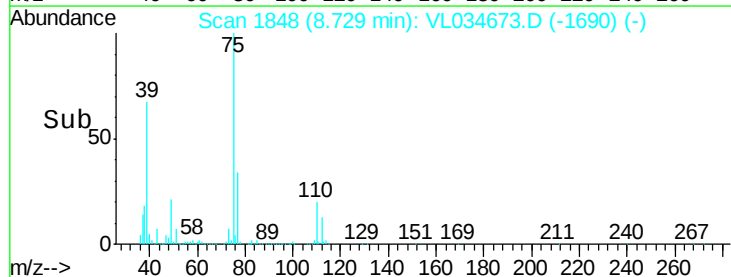
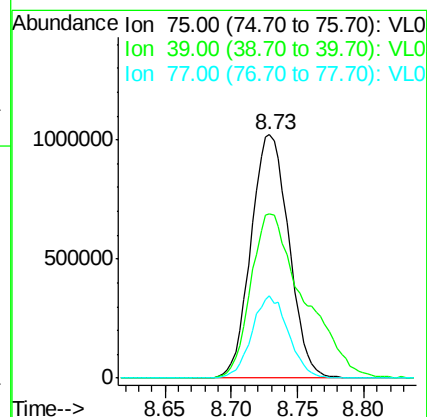
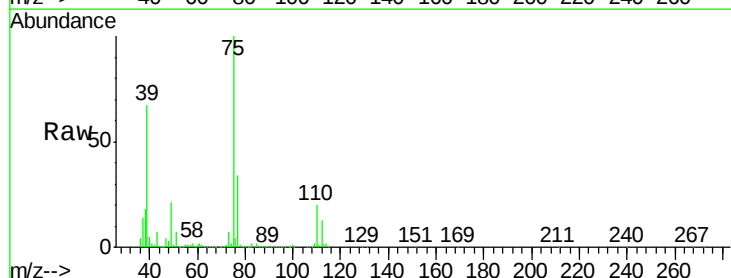
Tgt Ion: 75 Resp: 2029752

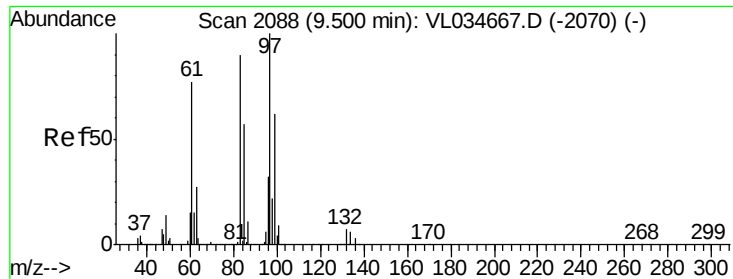
Ion Ratio Lower Upper

75 100

39 67.2 54.7 82.1

77 33.5 26.6 40.0





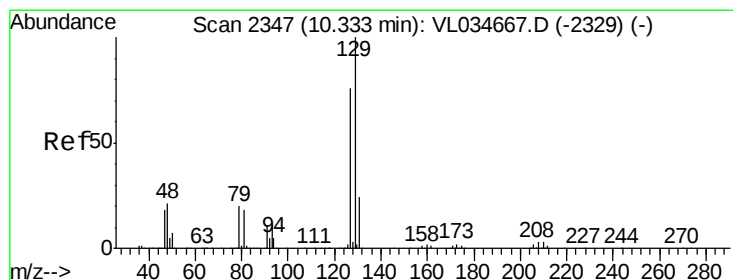
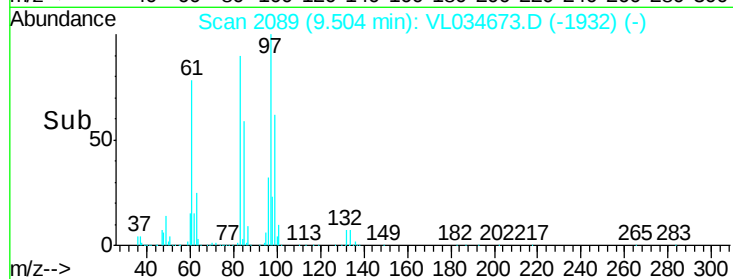
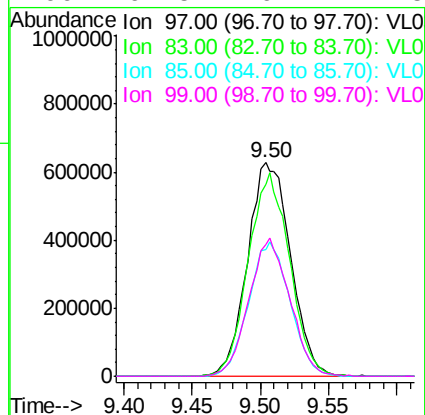
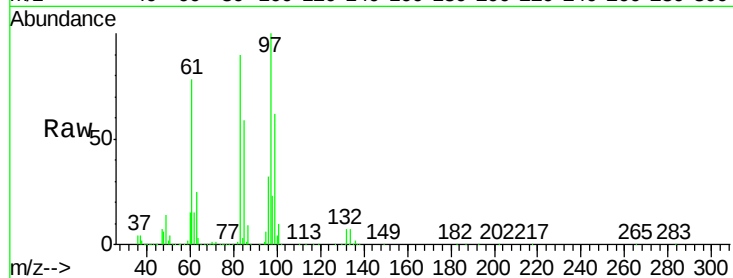
#47
 1,1,2-Trichloroethane
 Concen: 14.076 ppbv
 RT: 9.50 min Scan# 2089
 Delta R.T. 0.00 min
 Lab File: VL034673.D
 Acq: 25 Feb 2020 15:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
97	100		
83	89.8	72.3	108.5
85	59.4	45.8	68.8
99	61.5	49.7	74.5

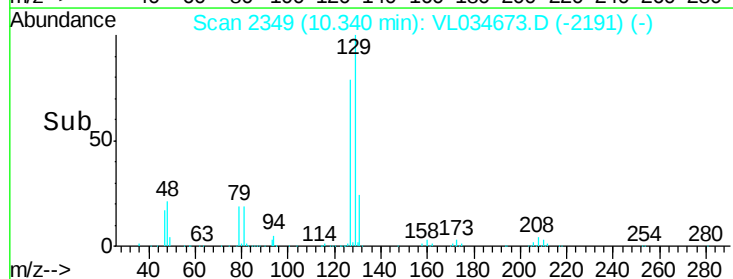
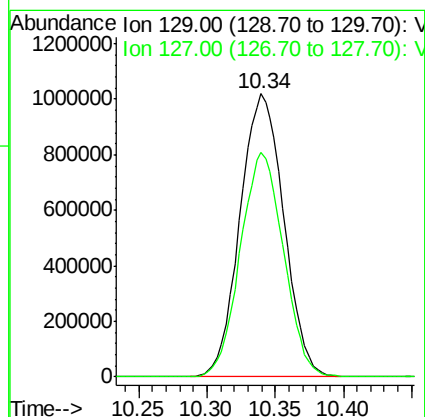
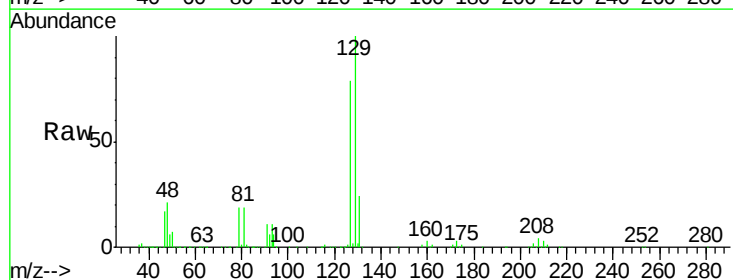
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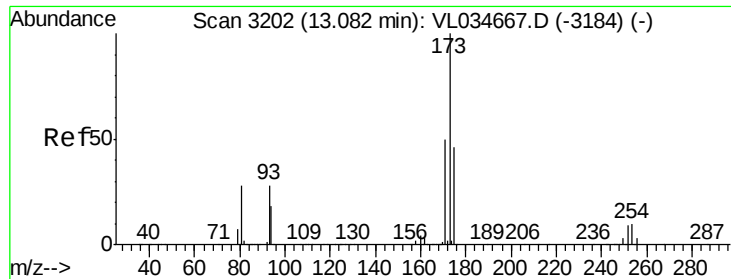
MMDadoda
 2/26/2020 12:38:58 PM



#48
 Dibromochloromethane
 Concen: 12.698 ppbv
 RT: 10.34 min Scan# 2349
 Delta R.T. 0.01 min
 Lab File: VL034673.D
 Acq: 25 Feb 2020 15:09

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.6	39.1	117.3





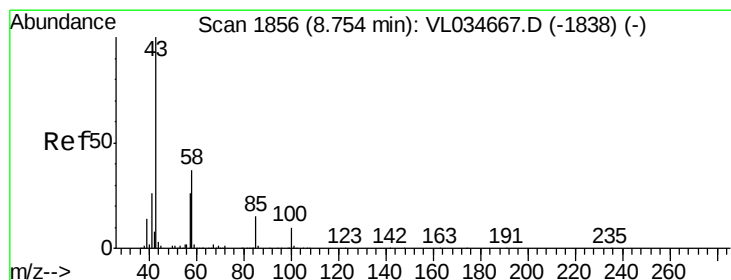
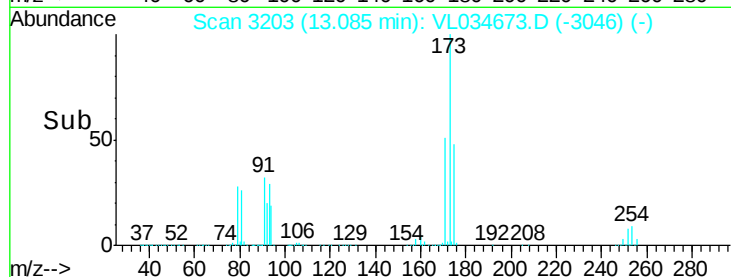
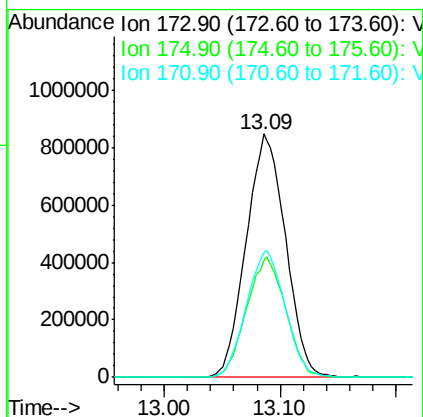
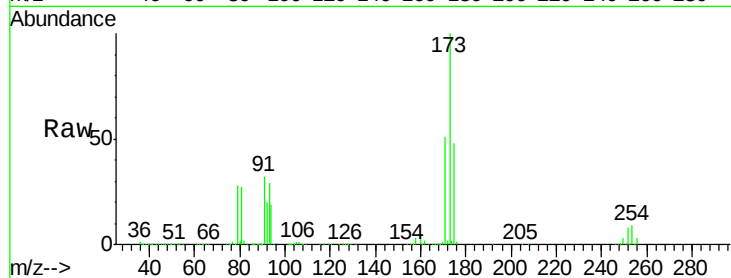
#49
Bromoform
Concen: 12.757 ppbv
RT: 13.09 min Scan# 3203
Delta R.T. 0.00 min
Lab File: VL034673.D
Acq: 25 Feb 2020 15:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:173 Resp: 2001720
Ion Ratio Lower Upper
173 100
175 49.2 39.0 58.4
171 51.6 41.0 61.6

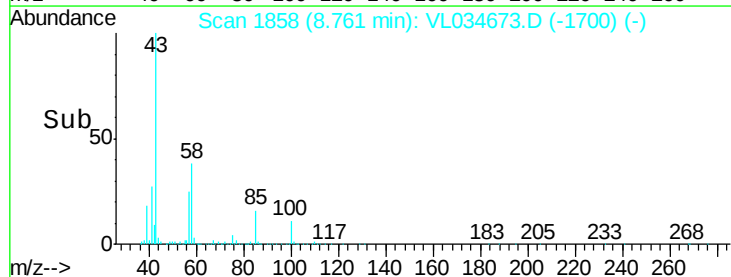
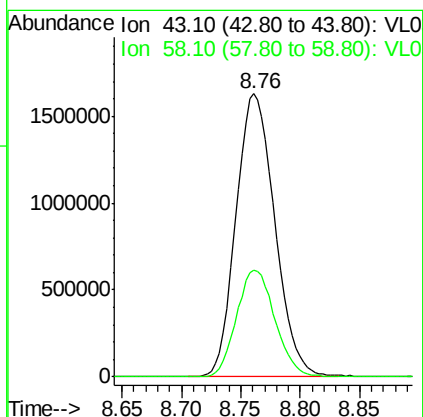
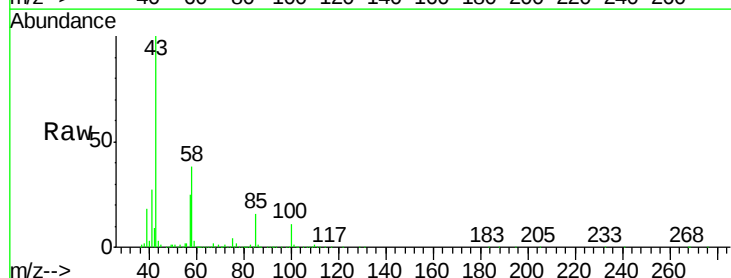
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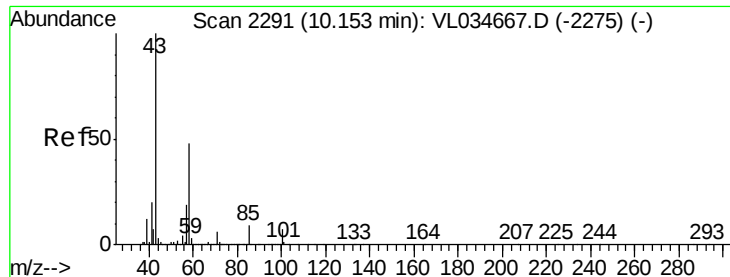
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 14.550 ppbv
RT: 8.76 min Scan# 1858
Delta R.T. 0.01 min
Lab File: VL034673.D
Acq: 25 Feb 2020 15:09

Tgt Ion: 43 Resp: 3680200
Ion Ratio Lower Upper
43 100
58 37.6 29.5 44.3





#51

2-Hexanone

Concen: 15.623 ppbv

RT: 10.16 min Scan# 2293

Delta R.T. 0.01 min

Lab File: VL034673.D

Acq: 25 Feb 2020 15:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 3110679

Ion Ratio Lower Upper

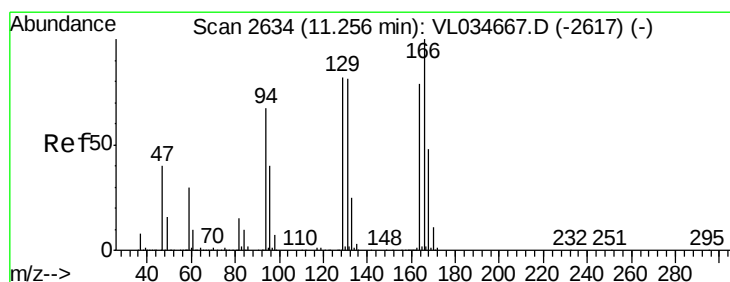
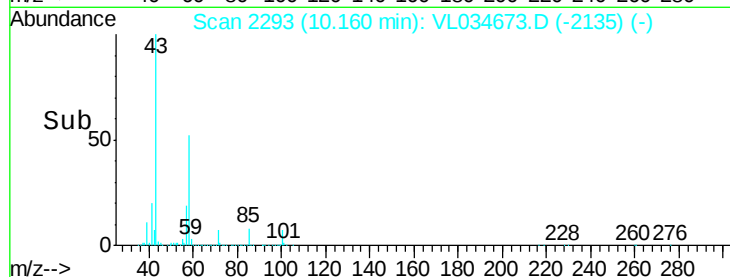
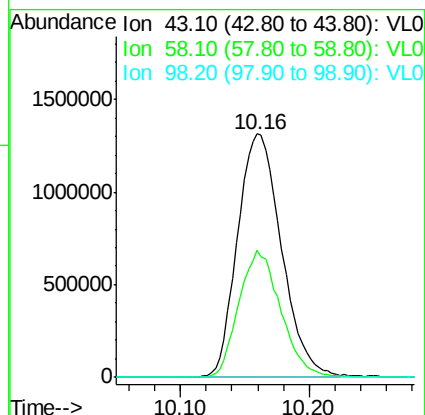
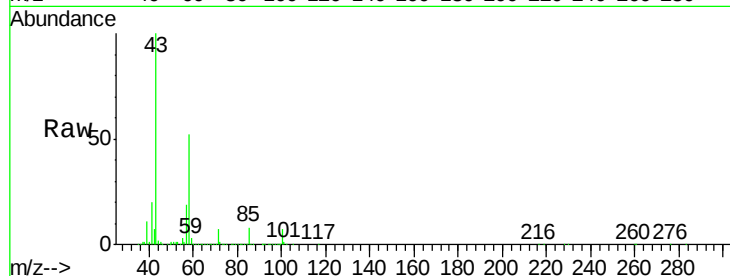
43 100

58 49.9 38.8 58.2

98 0.1 0.3 0.5#

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#52

Tetrachloroethene

Concen: 12.755 ppbv

RT: 11.26 min Scan# 2635

Delta R.T. 0.00 min

Lab File: VL034673.D

Acq: 25 Feb 2020 15:09

Tgt Ion: 164 Resp: 1112996

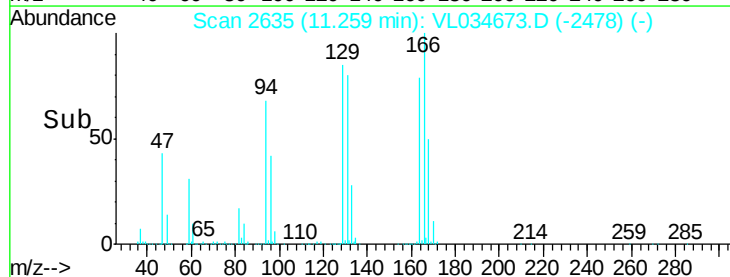
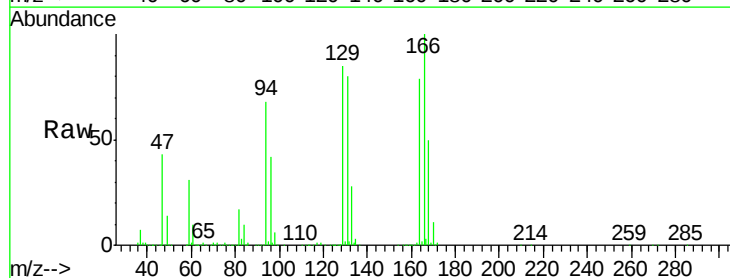
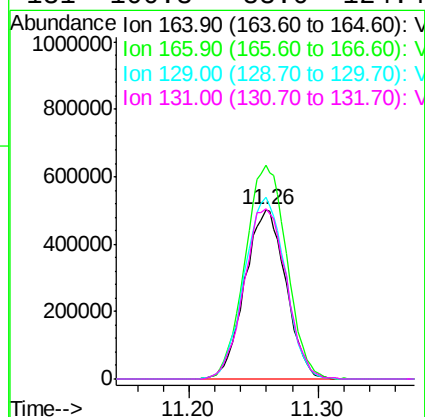
Ion Ratio Lower Upper

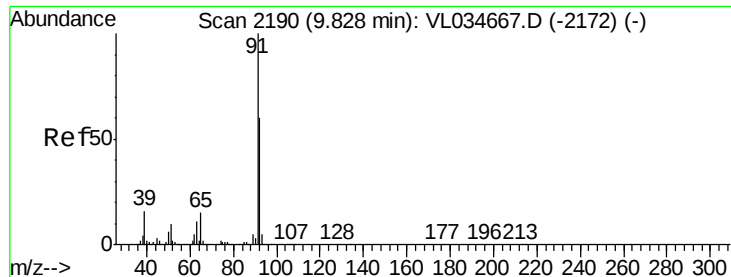
164 100

166 126.0 101.4 152.2

129 107.0 83.5 125.3

131 100.3 83.0 124.4





#53

Toluene

Concen: 15.511 ppbv

RT: 9.83 min Scan# 2192

Delta R.T. 0.01 min

Lab File: VL034673.D

Acq: 25 Feb 2020 15:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 3701476

Ion Ratio Lower Upper

91 100

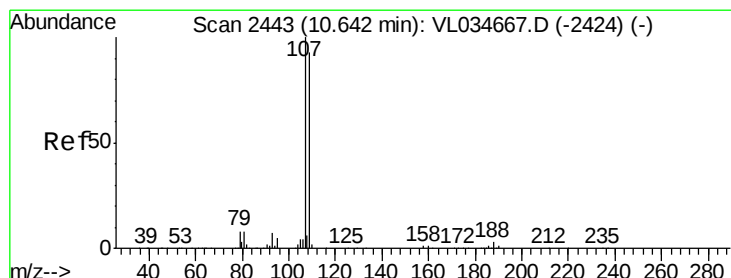
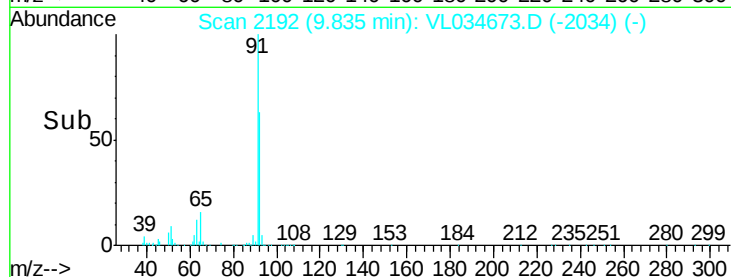
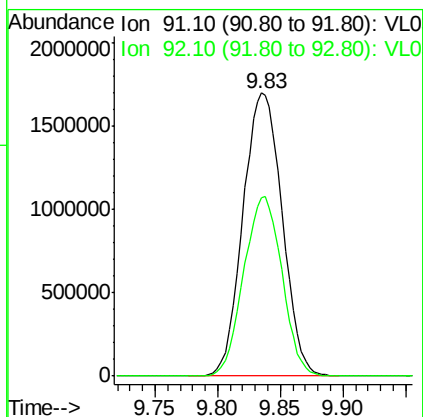
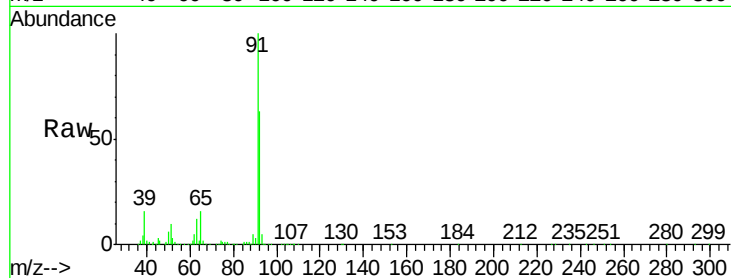
92 61.9 48.2 72.2

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#54

1,2-Dibromoethane

Concen: 13.588 ppbv

RT: 10.65 min Scan# 2445

Delta R.T. 0.01 min

Lab File: VL034673.D

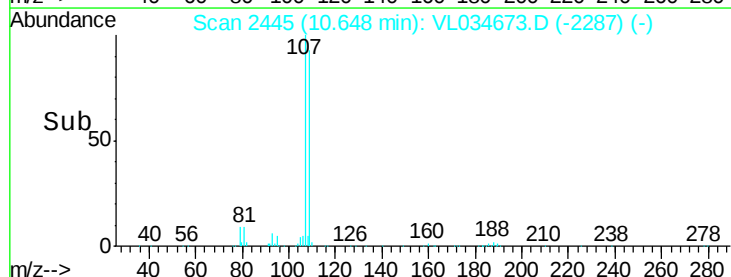
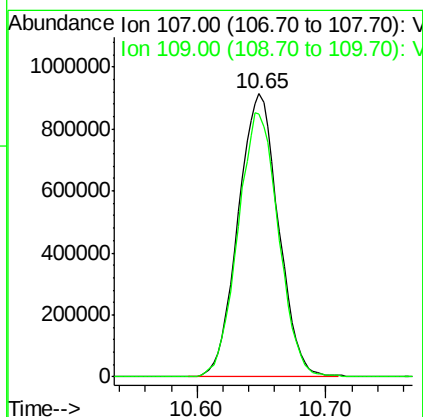
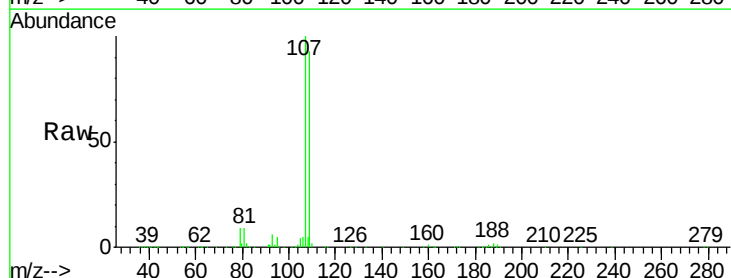
Acq: 25 Feb 2020 15:09

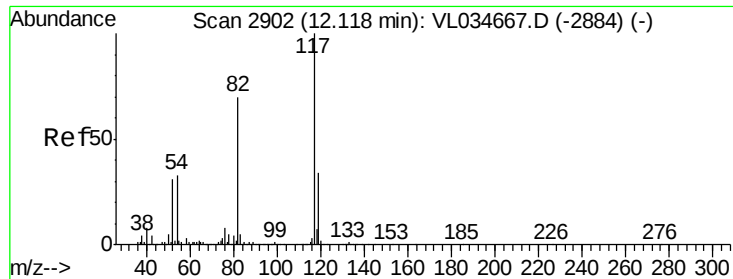
Tgt Ion: 107 Resp: 1985943

Ion Ratio Lower Upper

107 100

109 92.9 74.2 111.4





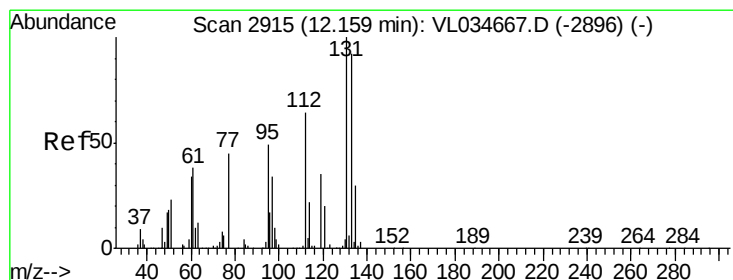
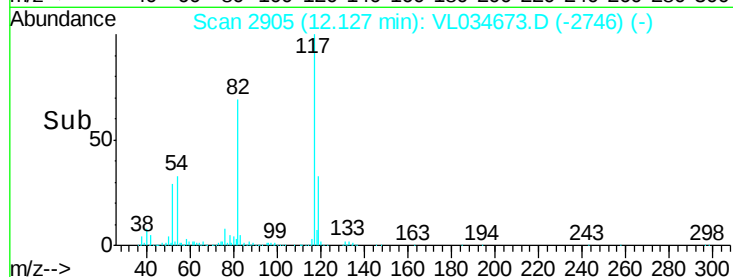
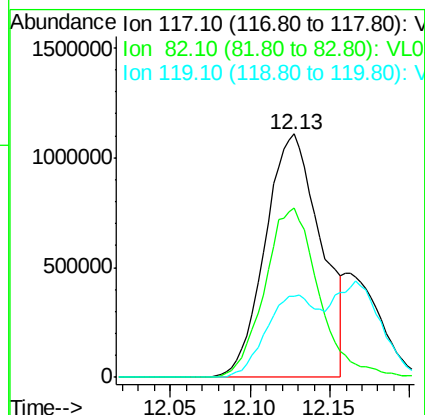
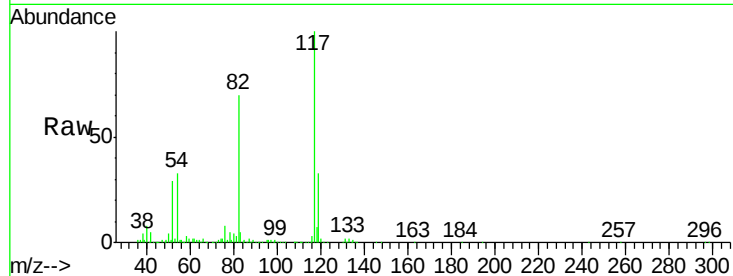
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min Scan# 2905
Delta R.T. 0.01 min
Lab File: VL034673.D
Acq: 25 Feb 2020 15:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
117	100		
82	68.5	54.2	81.4
119	28.1	44.2	66.2#

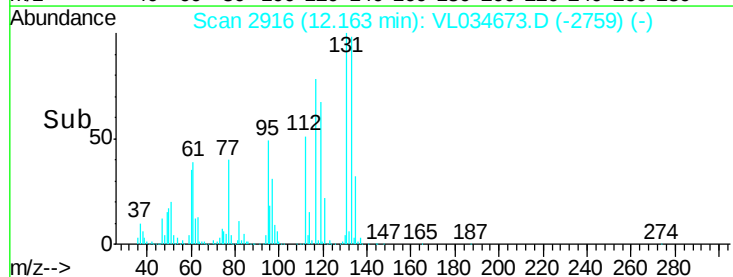
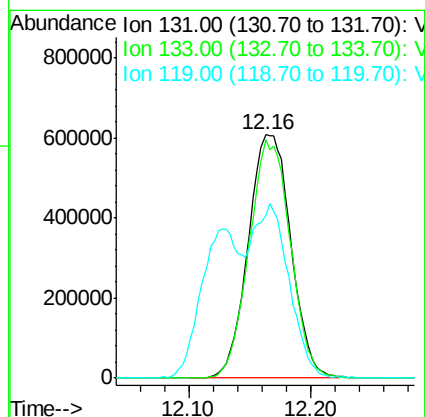
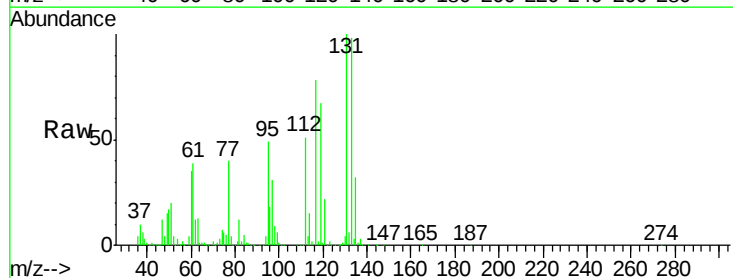
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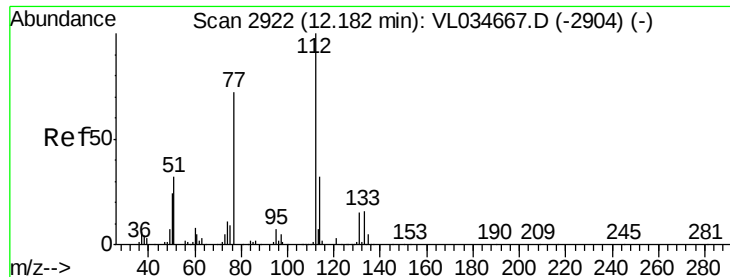
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#56
1,1,1,2-Tetrachloroethane
Concen: 11.191 ppbv
RT: 12.16 min Scan# 2916
Delta R.T. 0.00 min
Lab File: VL034673.D
Acq: 25 Feb 2020 15:09

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.4	77.0	115.4
119	69.4	114.8	172.2#





#57

Chlorobenzene

Concen: 12.524 ppbv

RT: 12.19 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VL034673.D

Acq: 25 Feb 2020 15:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 112 Resp: 2738685

Ion Ratio Lower Upper

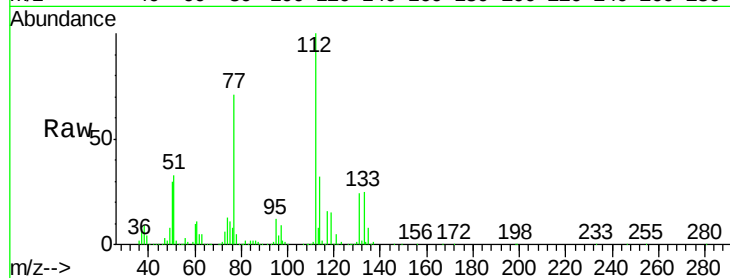
112 100

77 70.5 58.9 88.3

114 32.2 29.1 35.5

Manual Integrations
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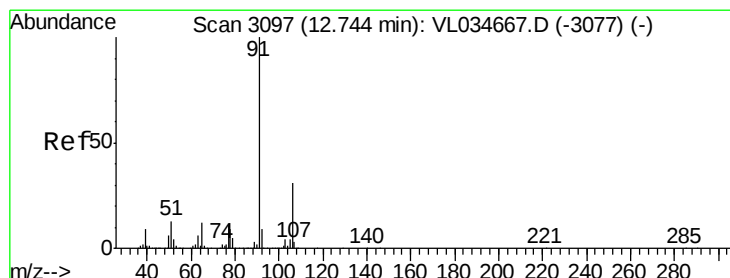
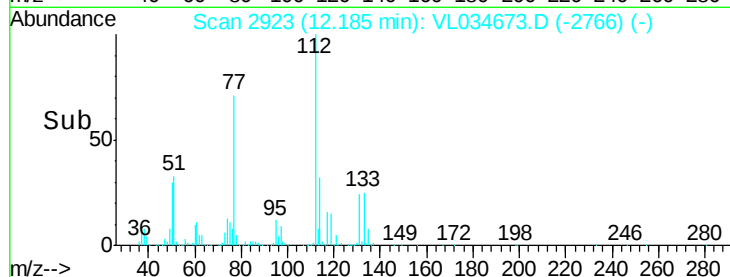
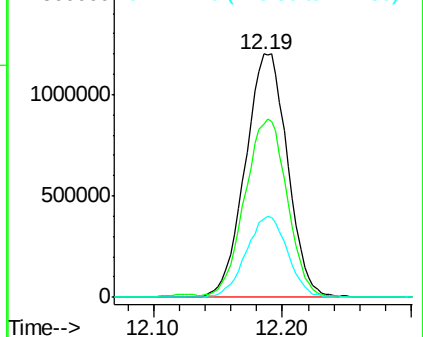
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 13.683 ppbv

RT: 12.75 min Scan# 3099

Delta R.T. 0.01 min

Lab File: VL034673.D

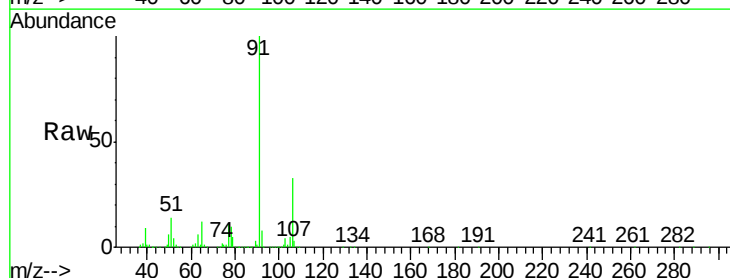
Acq: 25 Feb 2020 15:09

Tgt Ion: 91 Resp: 4865876

Ion Ratio Lower Upper

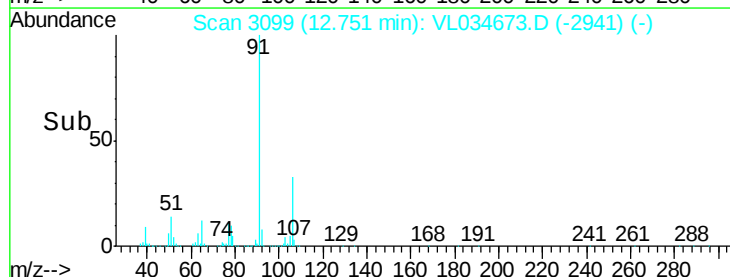
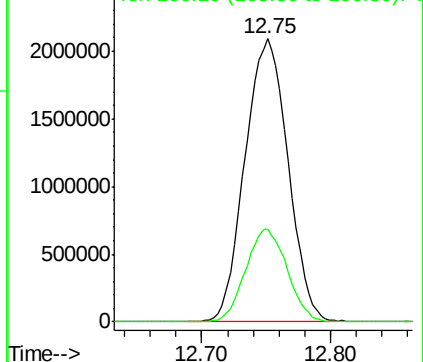
91 100

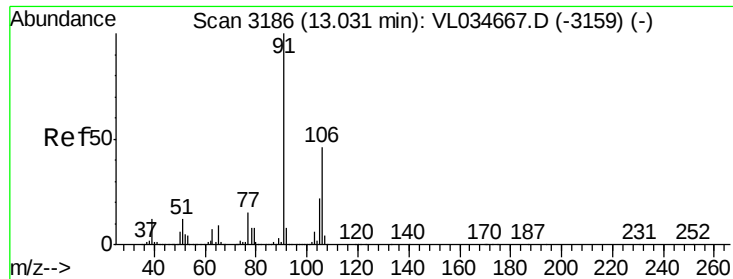
106 32.8 24.6 36.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 25.472 ppbv m

RT: 13.03 min Scan# 3187

Delta R.T. 0.00 min

Lab File: VL034673.D

Acq: 25 Feb 2020 15:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 8007360

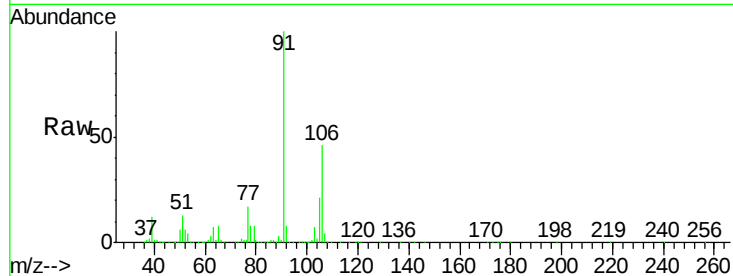
Ion Ratio Lower Upper

91 100

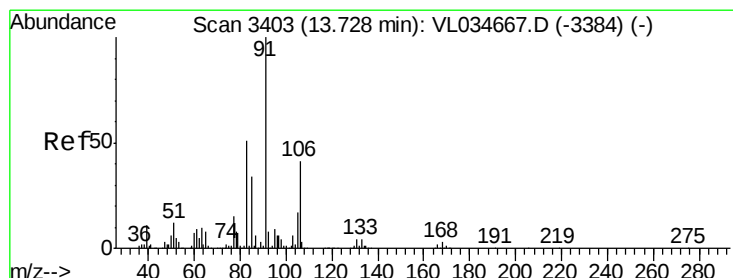
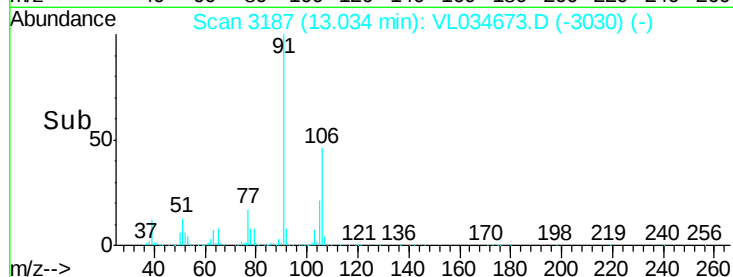
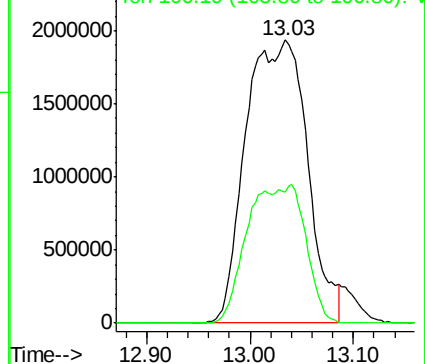
106 46.4 35.9 53.9

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



#60

o-Xylene

Concen: 12.467 ppbv

RT: 13.74 min Scan# 3406

Delta R.T. 0.01 min

Lab File: VL034673.D

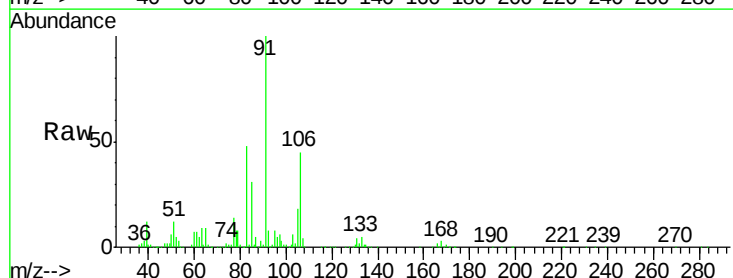
Acq: 25 Feb 2020 15:09

Tgt Ion: 91 Resp: 3935957

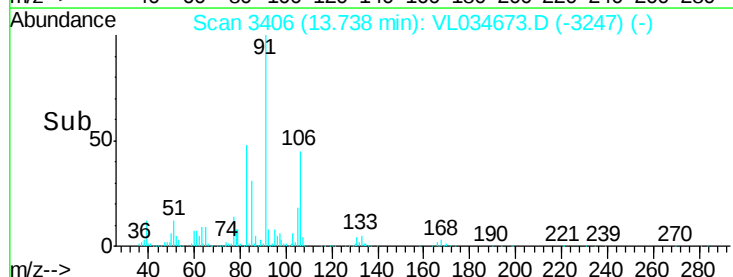
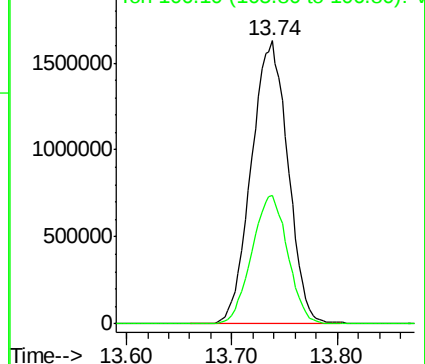
Ion Ratio Lower Upper

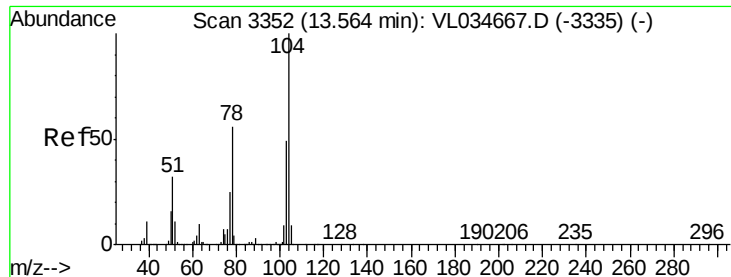
91 100

106 44.6 22.1 66.1



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





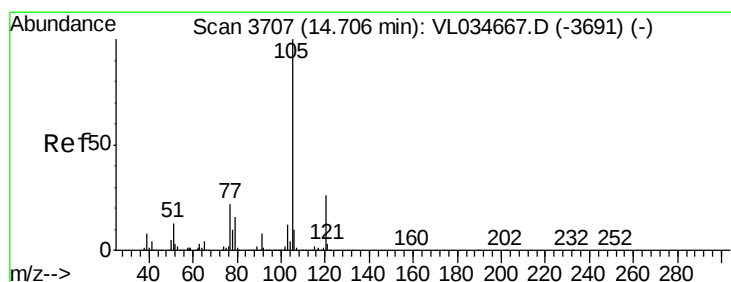
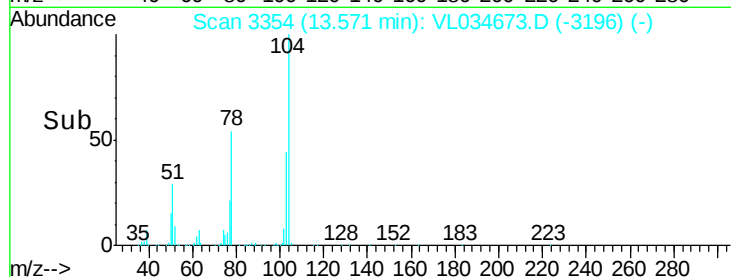
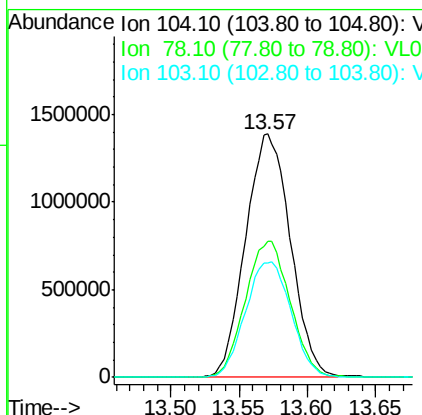
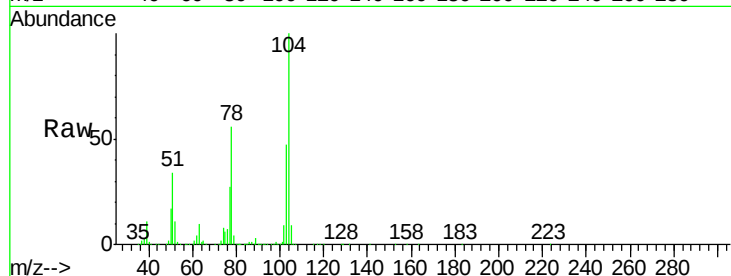
#61
Stvrene
Concen: 15.076 ppbv
RT: 13.57 min Scan# 3354
Delta R.T. 0.01 min
Lab File: VL034673.D
Acq: 25 Feb 2020 15:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
104	100		
78	56.1	44.9	67.3
103	48.5	38.5	57.7

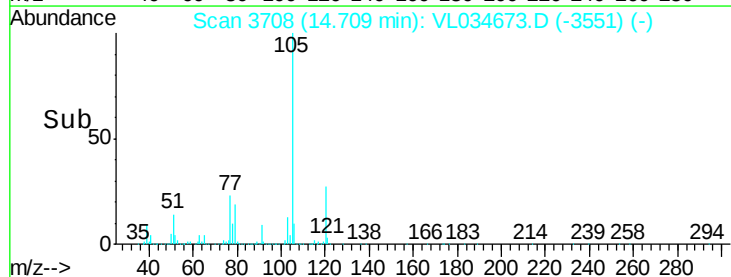
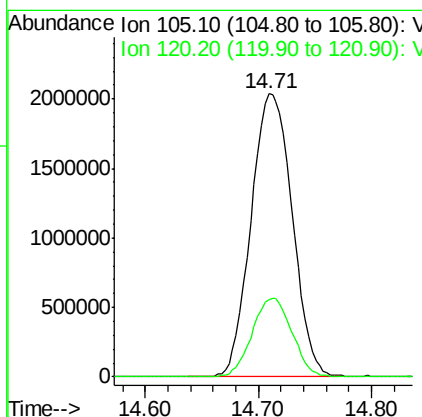
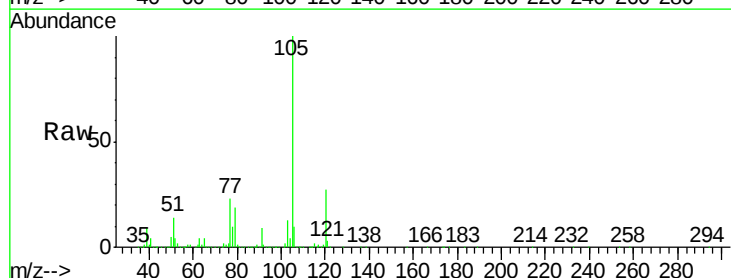
Manual Integrations
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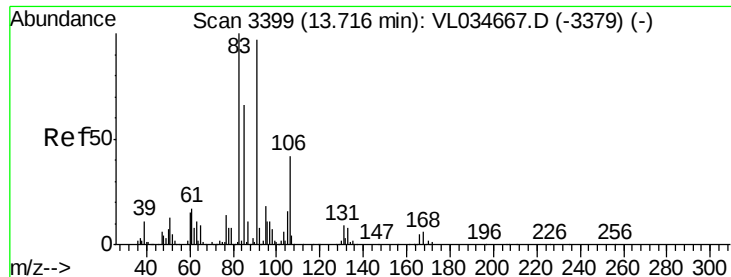
MMDadoda
2/26/2020 12:38:58 PM



#62
Isopropylbenzene
Concen: 12.584 ppbv
RT: 14.71 min Scan# 3708
Delta R.T. 0.00 min
Lab File: VL034673.D
Acq: 25 Feb 2020 15:09

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.9	20.7	31.1





#63

1,1,2,2-Tetrachloroethane

Concen: 11.549 ppbv

RT: 13.72 min Scan# 3401

Delta R.T. 0.01 min

Lab File: VL034673.D

Acq: 25 Feb 2020 15:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 83 Resp: 2820036

Ion Ratio Lower Upper

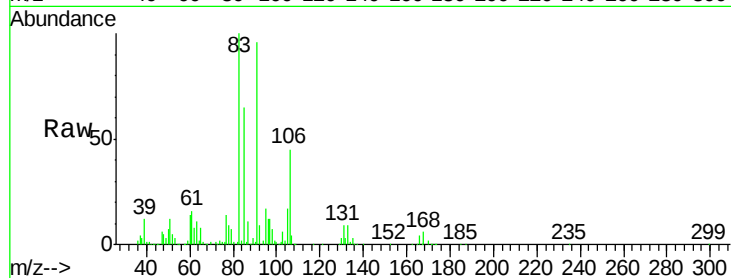
83 100

131 9.1 4.5 13.4

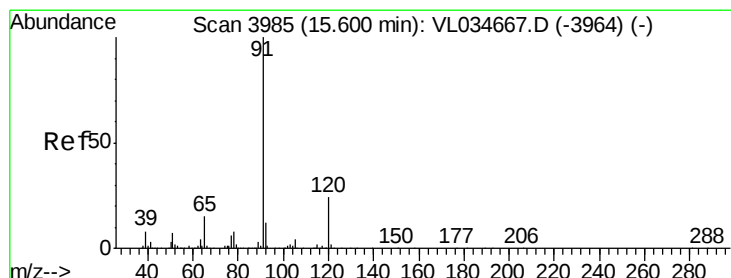
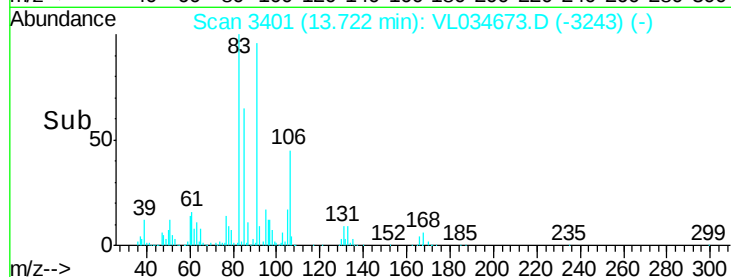
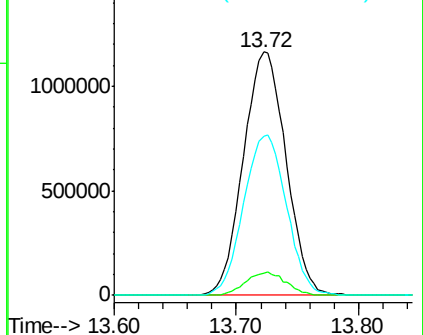
85 66.3 32.6 98.0

Manual Integrations
APPROVED

MMDadoda
2/26/2020 12:38:58 PM



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



#64

n-propylbenzene

Concen: 13.353 ppbv

RT: 15.61 min Scan# 3988

Delta R.T. 0.01 min

Lab File: VL034673.D

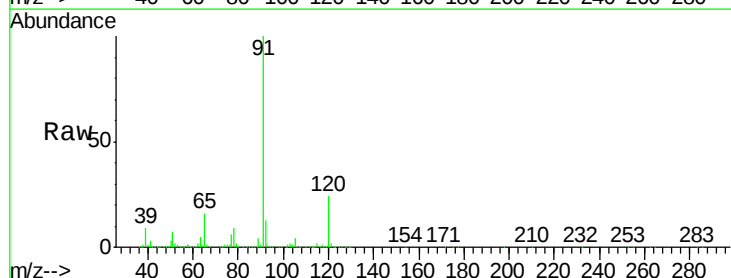
Acq: 25 Feb 2020 15:09

Tgt Ion:120 Resp: 1405523

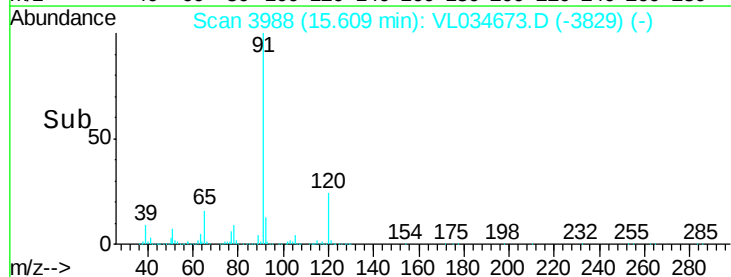
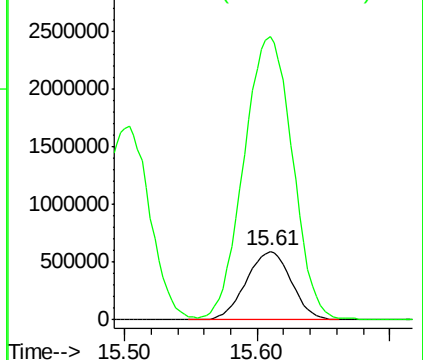
Ion Ratio Lower Upper

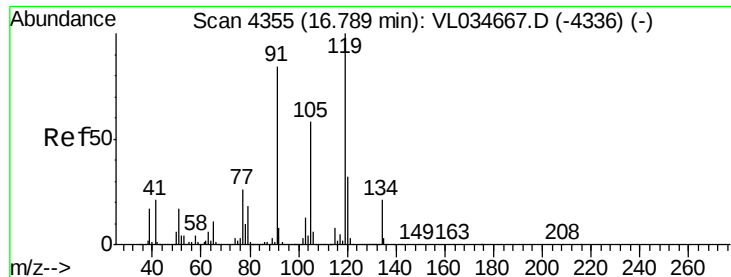
120 100

91 446.4 375.9 563.9



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





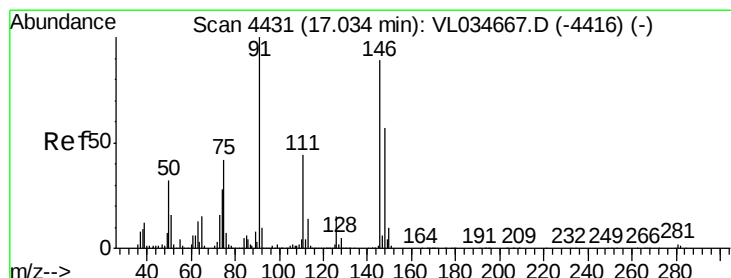
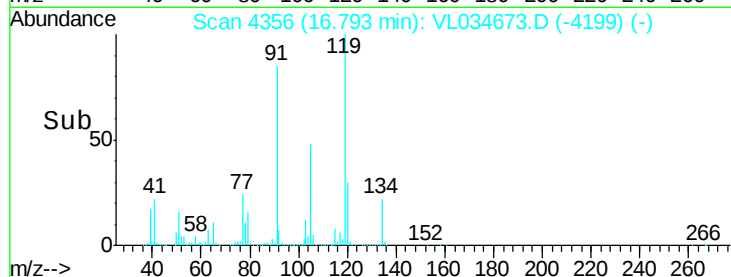
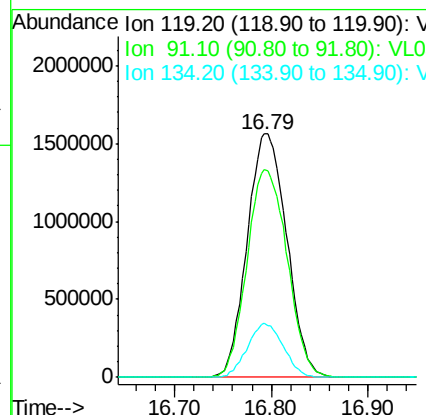
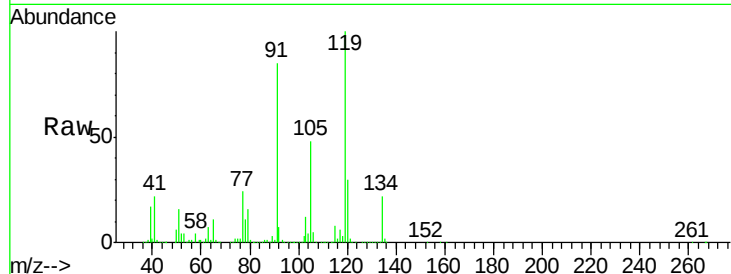
#65
 tert-Butylbenzene
 Concen: 11.977 ppbv
 RT: 16.79 min Scan# 4356
 Delta R.T. 0.00 min
 Lab File: VL034673.D
 Acq: 25 Feb 2020 15:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
119	100		
91	86.6	68.9	103.3
134	20.2	15.6	23.4

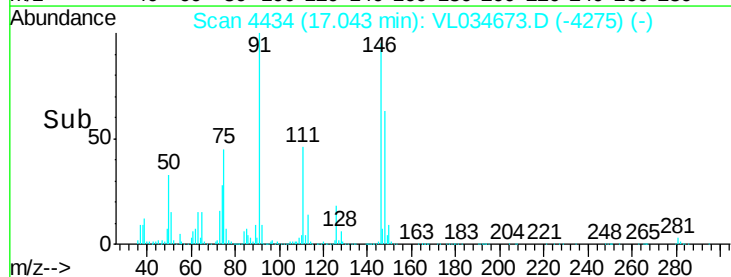
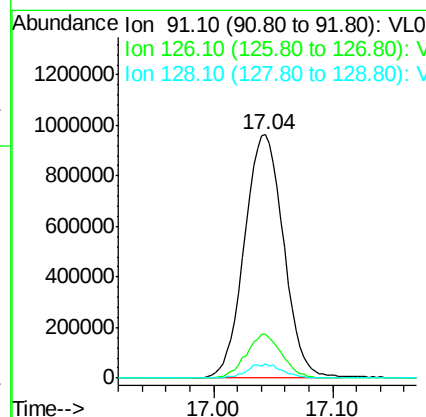
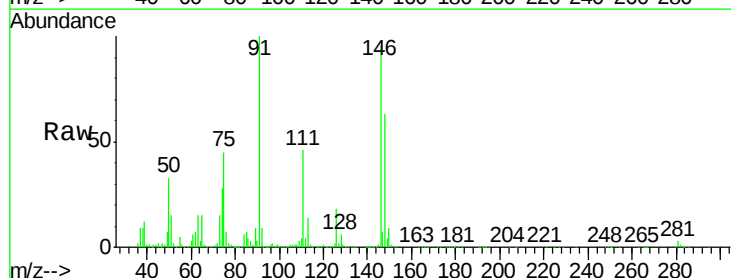
Manual Integrations
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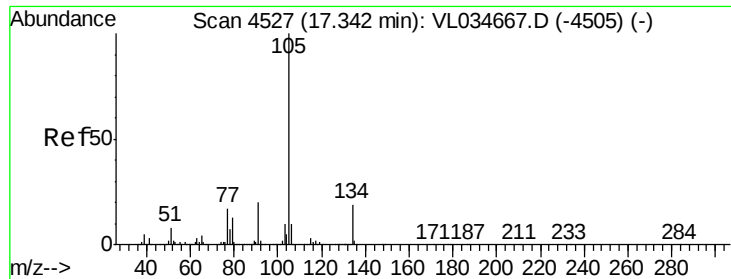
MMDadoda
 2/26/2020 12:38:58 PM



#66
 Benzyl Chloride
 Concen: 14.093 ppbv
 RT: 17.04 min Scan# 4434
 Delta R.T. 0.01 min
 Lab File: VL034673.D
 Acq: 25 Feb 2020 15:09

Tgt Ion	Ratio	Lower	Upper
91	100		
126	16.6	13.3	19.9
128	5.3	4.2	6.2





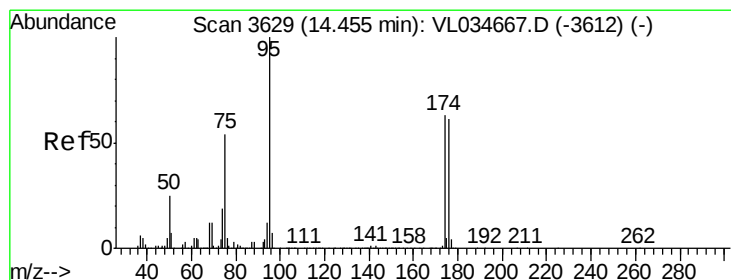
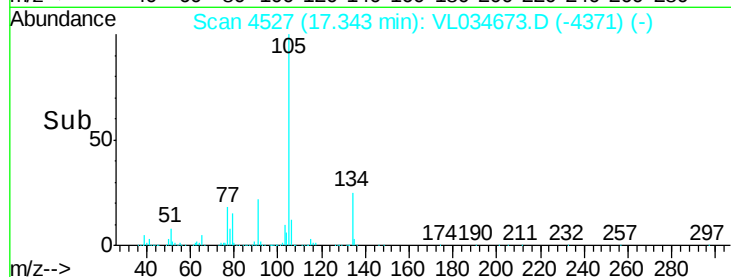
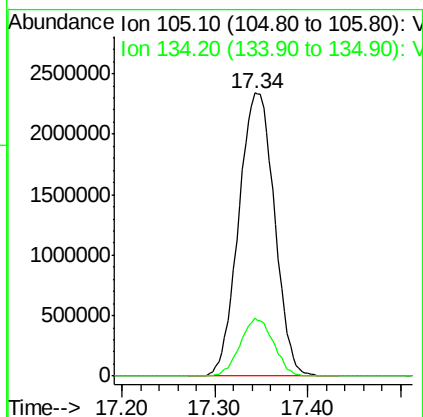
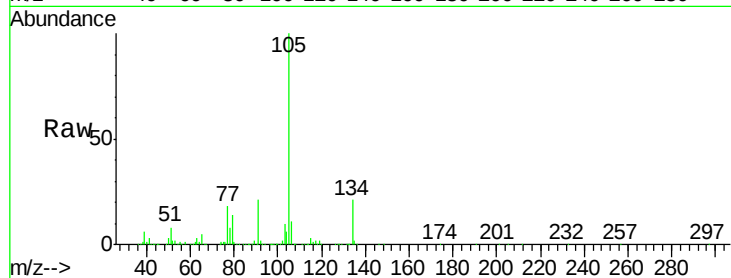
#67
 sec-Butylbenzene
 Concen: 12.260 ppbv
 RT: 17.34 min Scan# 4527
 Delta R.T. 0.00 min
 Lab File: VL034673.D
 Acq: 25 Feb 2020 15:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:105 Resp: 6245015
 Ion Ratio Lower Upper
 105 100
 134 19.1 14.6 21.8

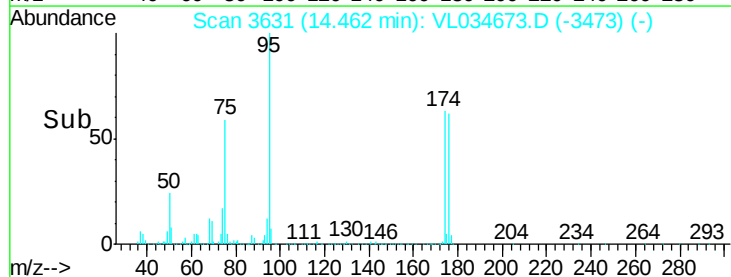
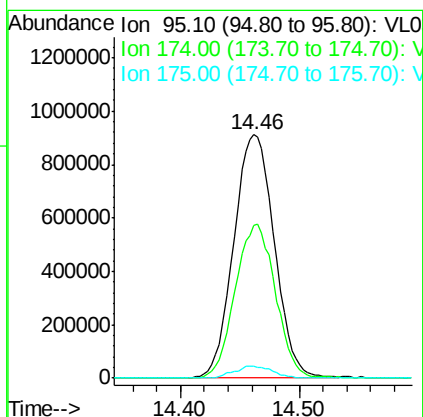
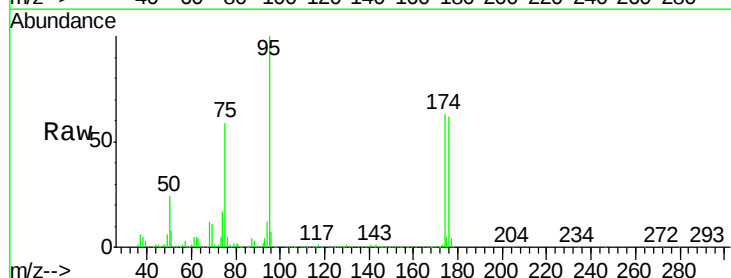
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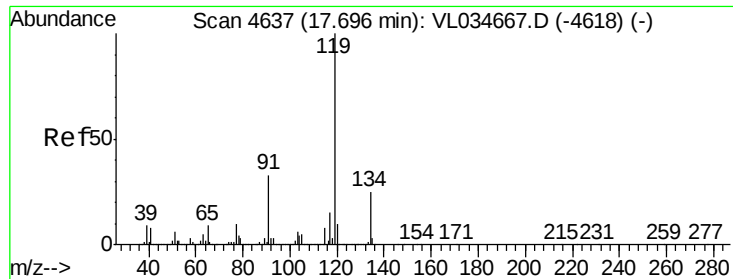
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.550 ppbv
 RT: 14.46 min Scan# 3631
 Delta R.T. 0.01 min
 Lab File: VL034673.D
 Acq: 25 Feb 2020 15:09

Tgt Ion: 95 Resp: 2144842
 Ion Ratio Lower Upper
 95 100
 174 63.0 51.2 76.8
 175 4.7 3.8 5.6





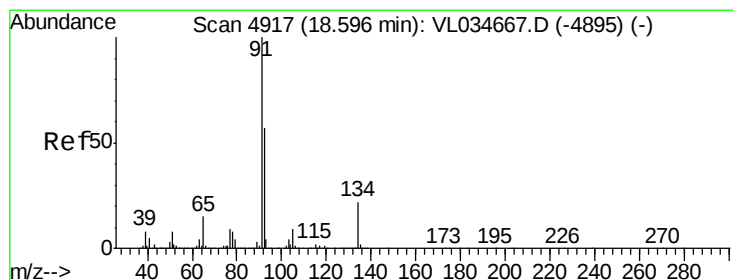
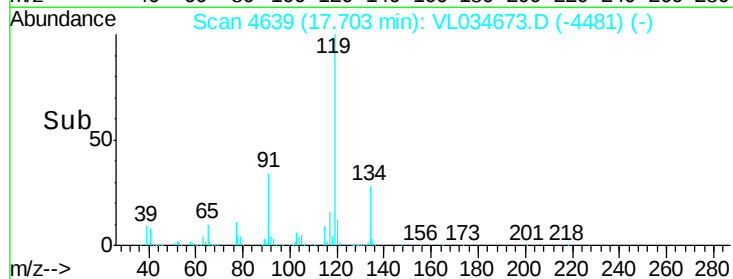
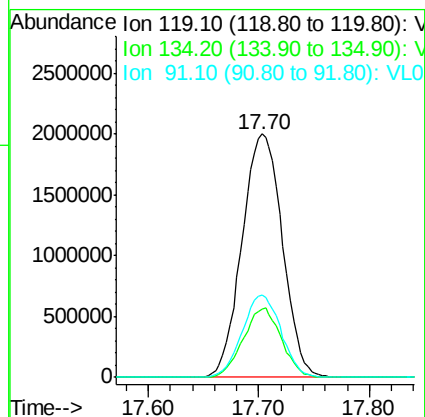
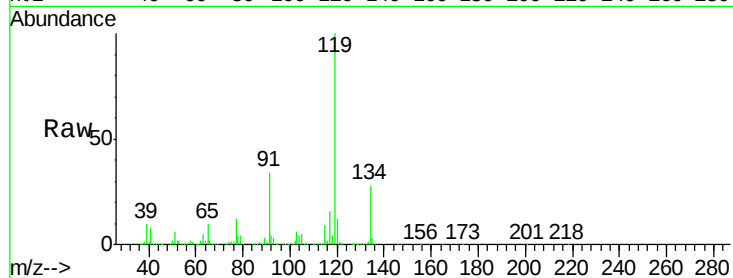
#69
 p-Isopropyltoluene
 Concen: 12.283 ppbv
 RT: 17.70 min Scan# 4639
 Delta R.T. 0.01 min
 Lab File: VL034673.D
 Acq: 25 Feb 2020 15:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.9	20.6	31.0
91	32.5	25.3	37.9

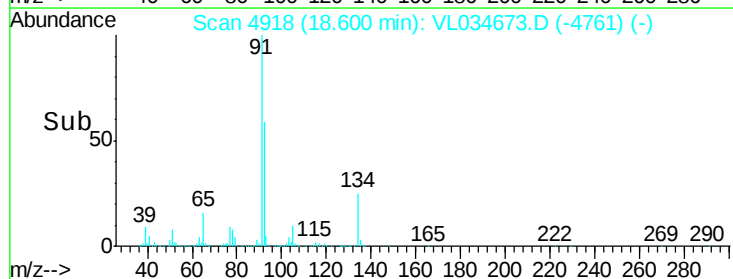
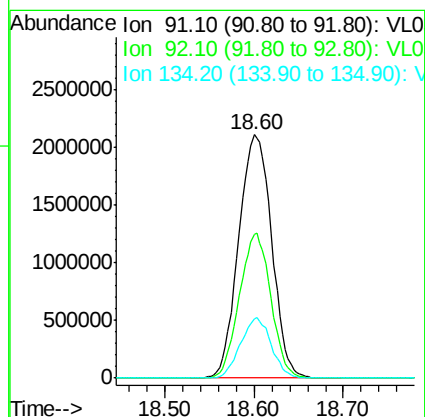
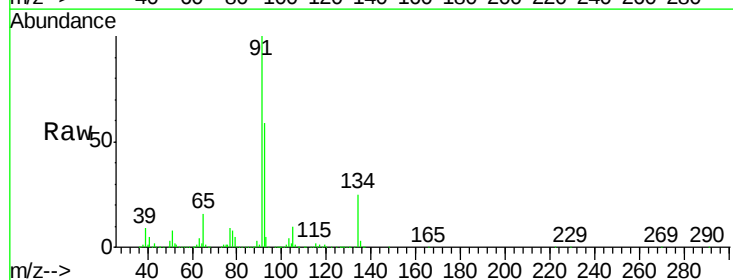
Manual Integrations
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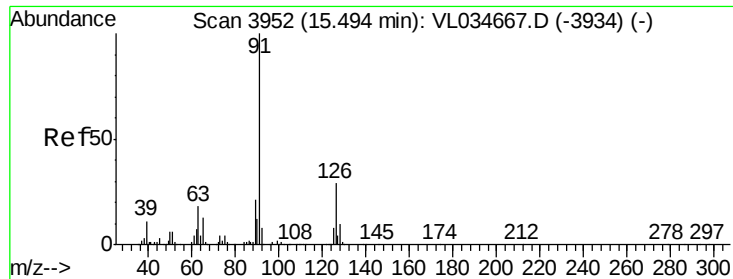
MMDadoda
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#70
 n-Butylbenzene
 Concen: 12.292 ppbv
 RT: 18.60 min Scan# 4918
 Delta R.T. 0.00 min
 Lab File: VL034673.D
 Acq: 25 Feb 2020 15:09

Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.6	44.0	66.0
134	23.1	17.6	26.4





#71

2-Chlorotoluene

Concen: 13.205 ppbv

RT: 15.50 min Scan# 3955

Delta R.T. 0.01 min

Lab File: VL034673.D

Acq: 25 Feb 2020 15:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 4100862

Ion Ratio Lower Upper

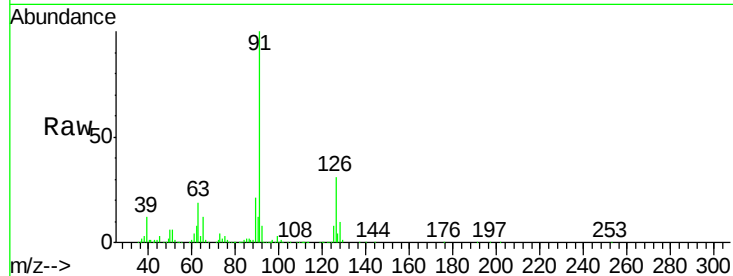
91 100

126 30.3 11.8 47.0

Manual Integrations
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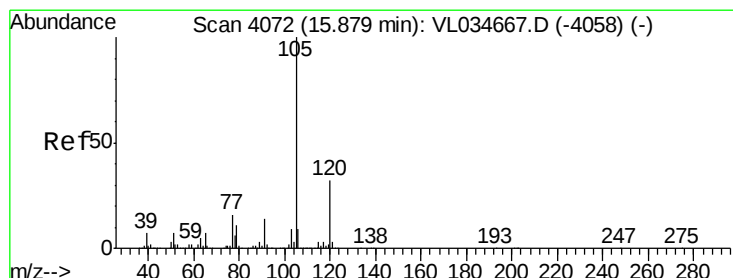
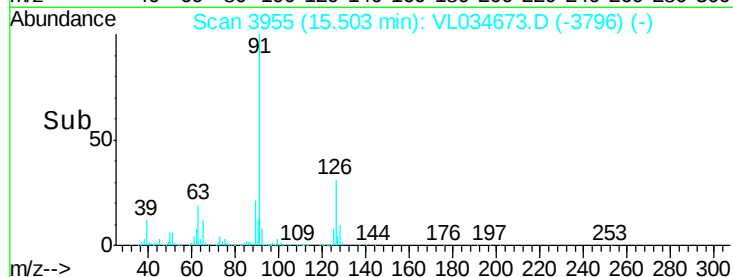
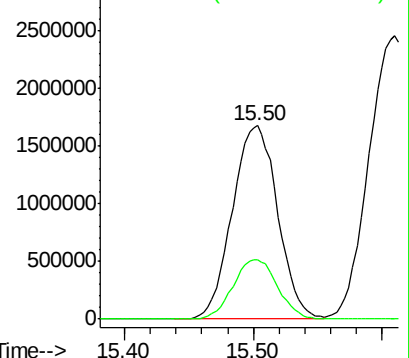
MMDadoda

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 13.264 ppbv

RT: 15.89 min Scan# 4074

Delta R.T. 0.01 min

Lab File: VL034673.D

Acq: 25 Feb 2020 15:09

Tgt Ion: 105 Resp: 4599918

Ion Ratio Lower Upper

105 100

120 30.0 23.2 34.8

91 13.6 10.9 16.3

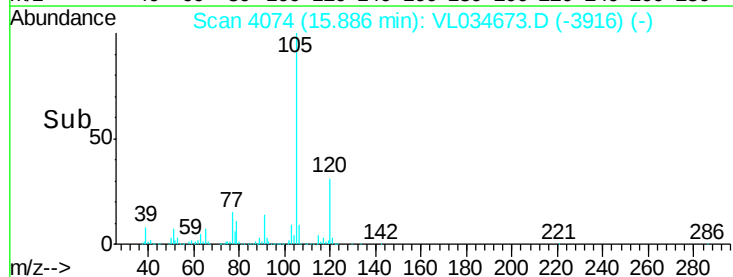
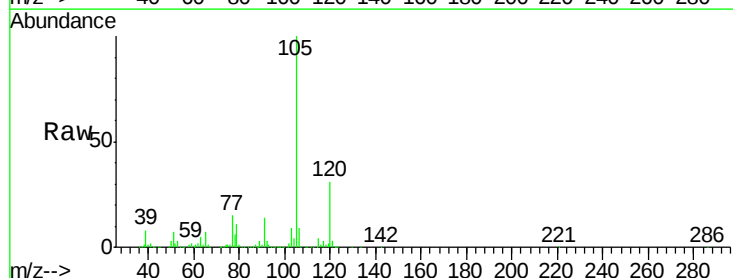
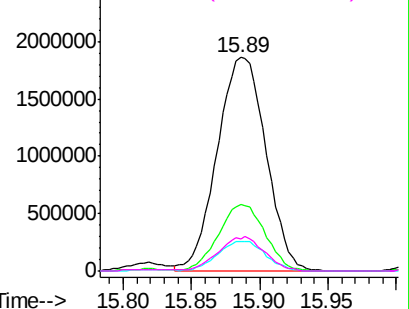
77 15.3 12.5 18.7

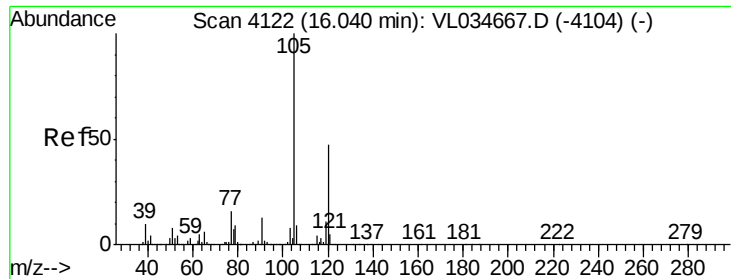
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 12.764 ppbv

RT: 16.05 min Scan# 4124

Delta R.T. 0.01 min

Lab File: VL034673.D

Acq: 25 Feb 2020 15:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 4325406

Ion Ratio Lower Upper

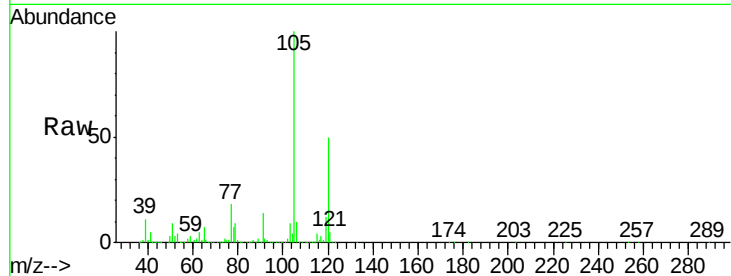
105 100

120 50.0 37.2 55.8

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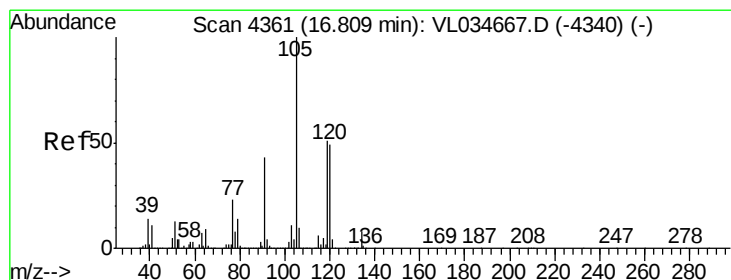
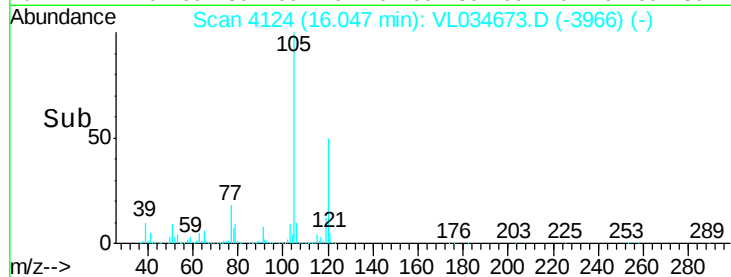
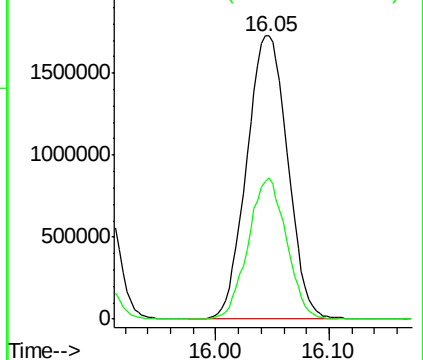
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 11.584 ppbv

RT: 16.82 min Scan# 4363

Delta R.T. 0.01 min

Lab File: VL034673.D

Acq: 25 Feb 2020 15:09

Tgt Ion:105 Resp: 4345478

Ion Ratio Lower Upper

105 100

120 49.0 39.4 59.0

91 46.4 35.1 52.7

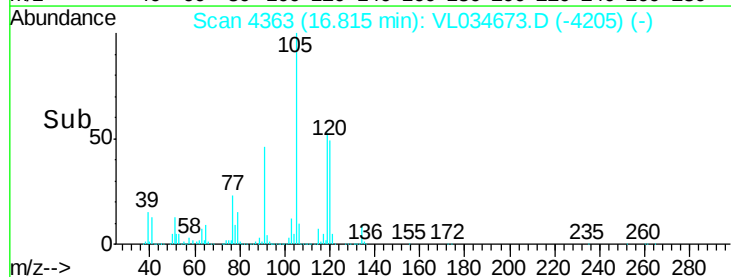
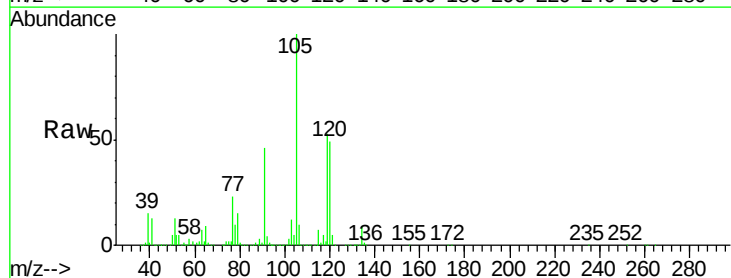
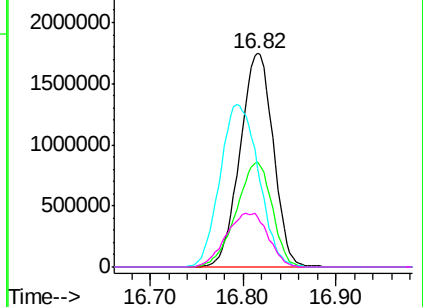
77 23.3 18.8 28.2

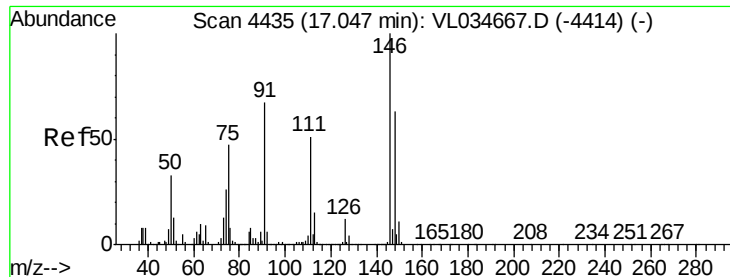
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





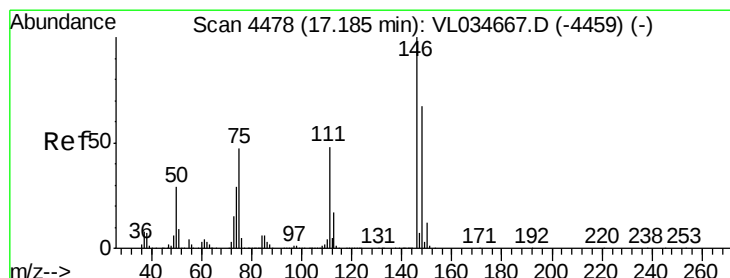
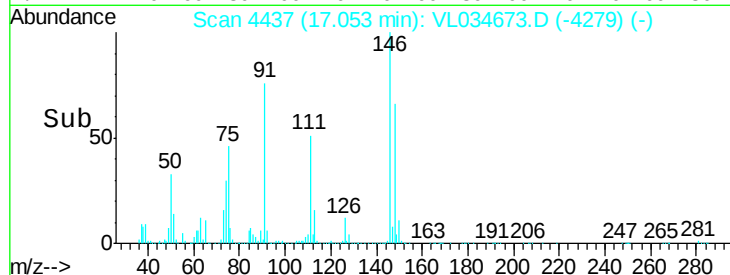
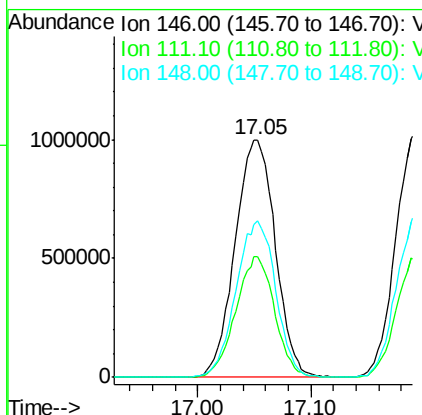
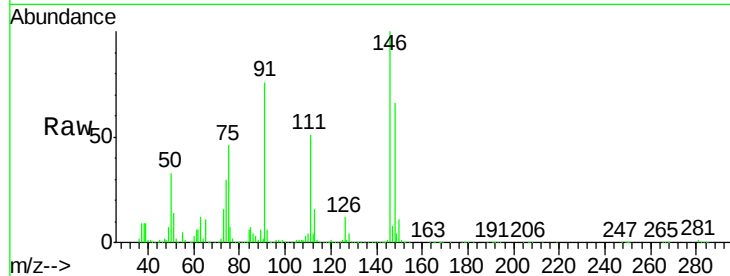
#75
 1,3-Dichlorobenzene
 Concen: 11.417 ppbv
 RT: 17.05 min Scan# 4437
 Delta R.T. 0.01 min
 Lab File: VL034673.D
 Acq: 25 Feb 2020 15:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.1	24.0	72.0
148	65.1	32.1	96.5

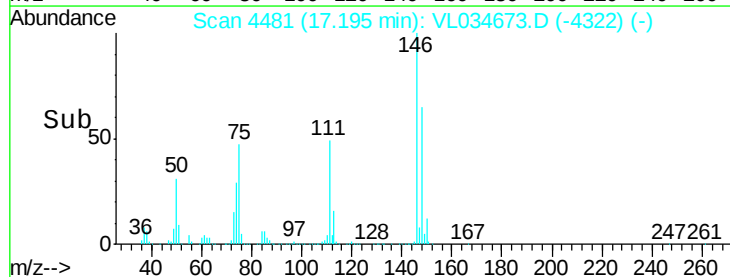
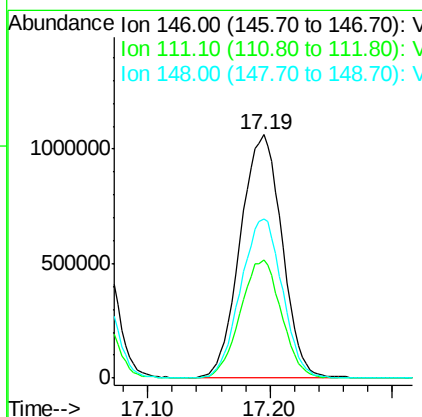
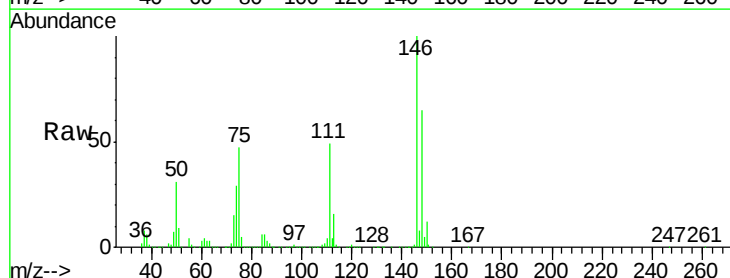
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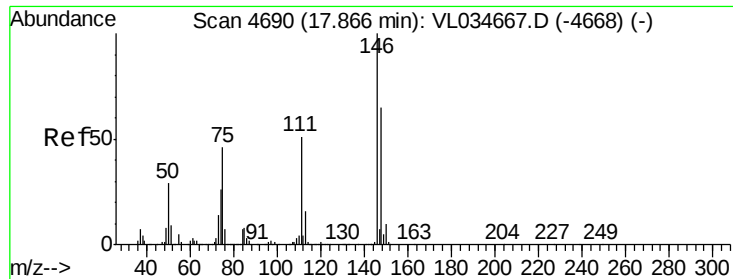
MMDadoda
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#76
 1,4-Dichlorobenzene
 Concen: 11.713 ppbv
 RT: 17.19 min Scan# 4481
 Delta R.T. 0.01 min
 Lab File: VL034673.D
 Acq: 25 Feb 2020 15:09

Tgt Ion	Ratio	Lower	Upper
146	100		
111	48.2	23.8	71.2
148	65.8	32.3	96.9





#77

1,2-Dichlorobenzene

Concen: 11.650 ppbv

RT: 17.87 min Scan# 4692

Delta R.T. 0.01 min

Lab File: VL034673.D

Acq: 25 Feb 2020 15:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 2417388

Ion Ratio Lower Upper

146 100

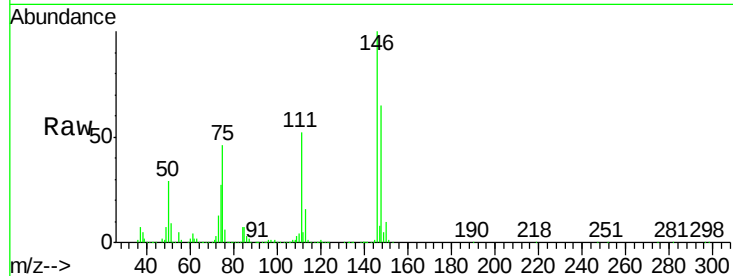
111 49.9 24.9 74.7

148 64.7 32.1 96.3

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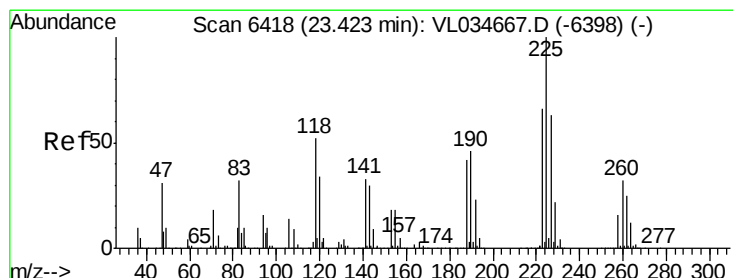
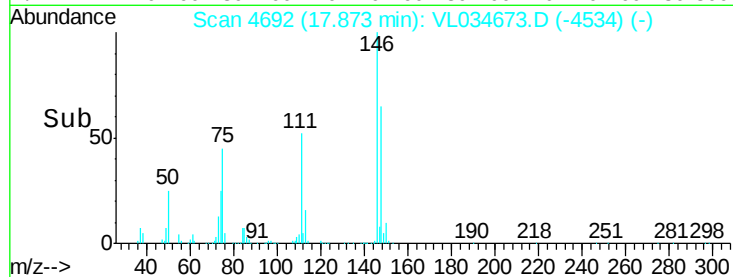
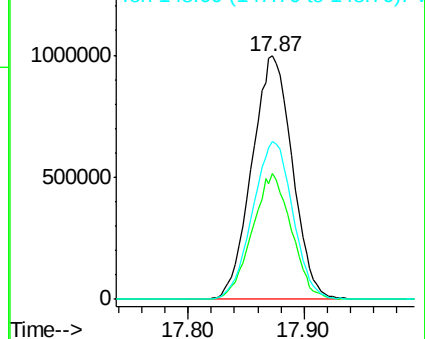
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 9.149 ppbv

RT: 23.43 min Scan# 6420

Delta R.T. 0.01 min

Lab File: VL034673.D

Acq: 25 Feb 2020 15:09

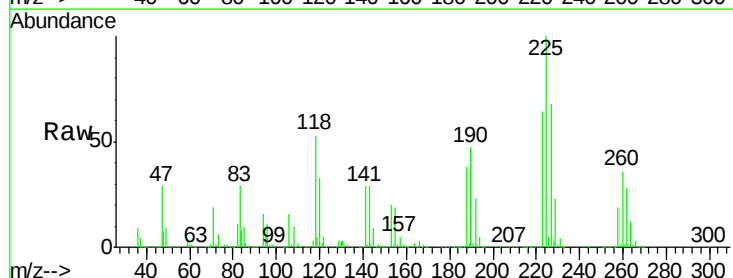
Tgt Ion:225 Resp: 1815476

Ion Ratio Lower Upper

225 100

223 63.6 50.4 75.6

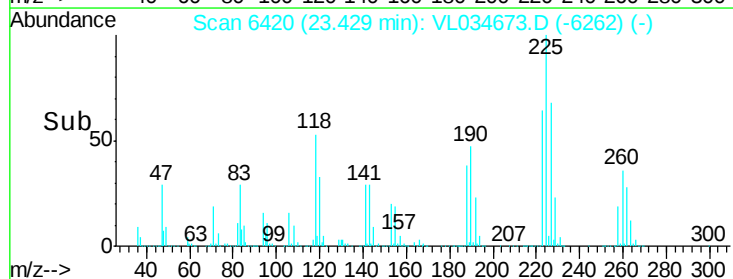
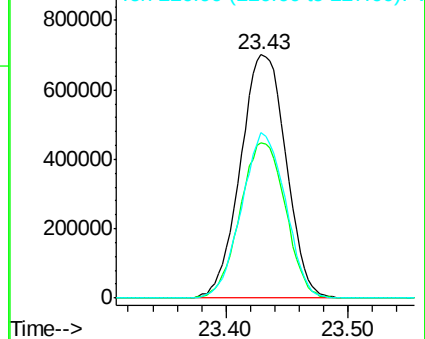
227 65.4 51.8 77.8

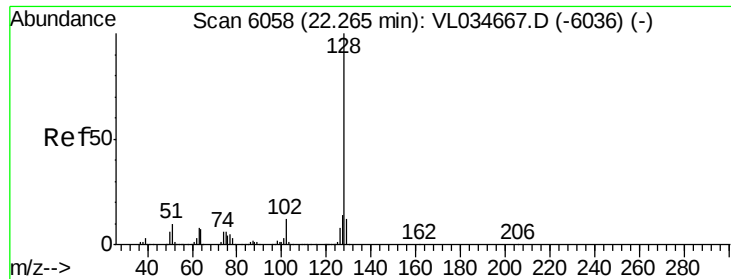


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 13.619 ppbv

RT: 22.27 min Scan# 6059

Delta R.T. 0.00 min

Lab File: VL034673.D

Acq: 25 Feb 2020 15:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:128 Resp: 4022037

Ion Ratio Lower Upper

128 100

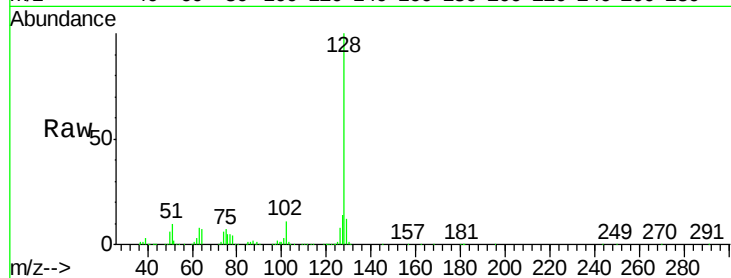
127 13.6 11.0 16.4

129 12.1 9.5 14.3

Manual Integrations
APPROVED

MMDadoda

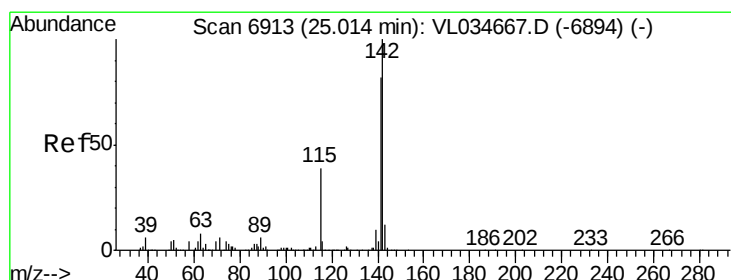
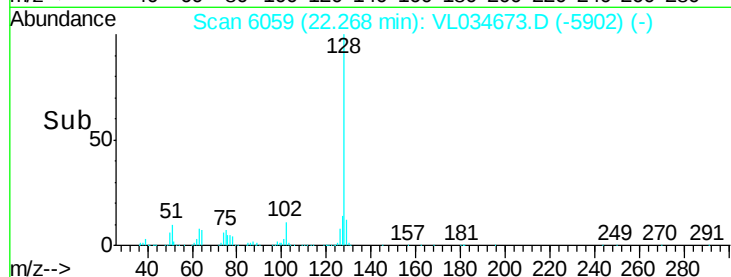
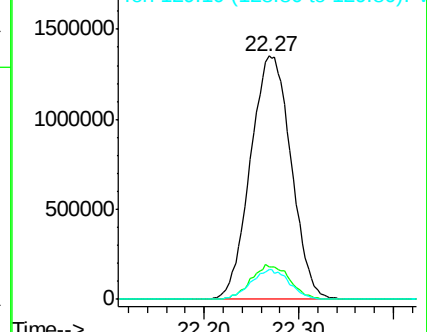
2/26/2020 12:38:58 PM



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: 9.497 ppbv

RT: 25.02 min Scan# 6915

Delta R.T. 0.01 min

Lab File: VL034673.D

Acq: 25 Feb 2020 15:09

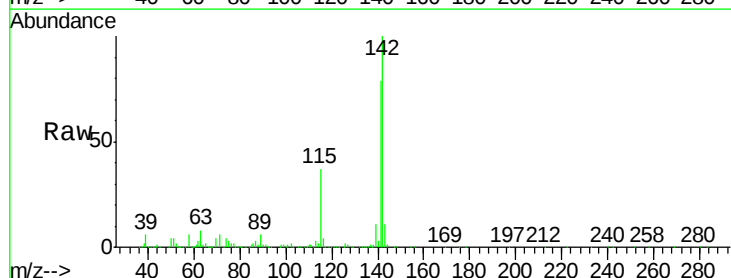
Tgt Ion:142 Resp: 1079017

Ion Ratio Lower Upper

142 100

141 85.9 68.1 102.1

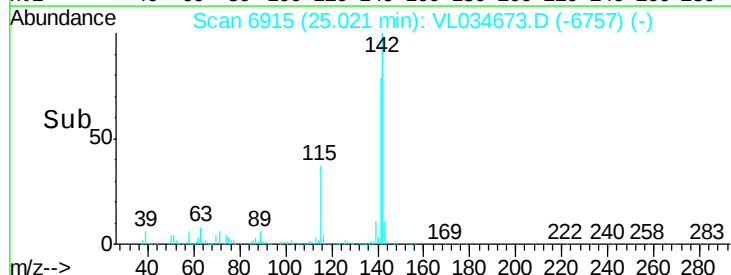
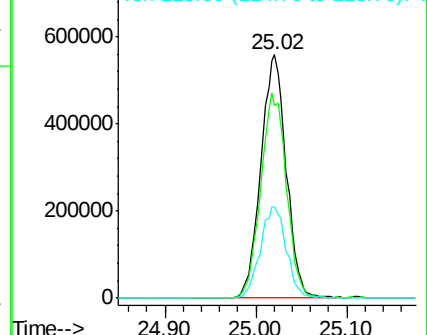
115 38.4 31.0 46.6

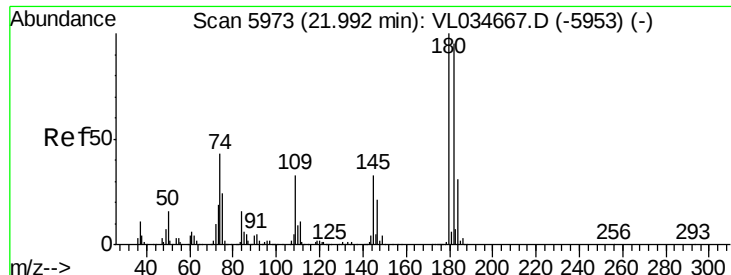


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 12.323 ppbv
 RT: 22.00 min Scan# 5976
 Delta R.T. 0.01 min
 Lab File: VL034673.D
 Acq: 25 Feb 2020 15:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.8	77.7	116.5
184	31.2	25.3	37.9

Manual Integrations
 APPROVED

MMDadoda
 2/26/2020 12:38:58 PM

