

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120320\
 Data File : VL036054.D
 Acq On : 3 Dec 2020 16:13
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 ICVVL120320

Manual Integrations
 APPROVED

MMDadoda
 12/7/2020 12:08:33 PM

Quant Time: Dec 03 16:53:02 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Dec 0
 QLast Update : Thu Dec 03 14:59:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1256704	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4581651	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	4526714m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	3326515	9.66	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.60%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	1823761	8.432 ppbv	99
3) Chlorodifluoromethane	2.97	51	1453307	9.854 ppbv	99
4) Chloromethane	3.12	50	731108	10.082 ppbv	100
5) Vinyl Chloride	3.24	62	913127	9.918 ppbv	99
6) Bromomethane	3.46	94	729889	10.206 ppbv	99
7) Chloroethane	3.54	64	345466	10.478 ppbv	98
8) Dichlorotetrafluoroethane	3.17	85	2482266	9.610 ppbv	100
9) Propene	2.99	41	553385	10.725 ppbv	97
10) Heptane	8.11	43	1563991	10.980 ppbv	99
11) Trichlorofluoromethane	3.93	101	2736368	9.396 ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.47	101	2076514	9.356 ppbv	97
13) Ethanol	3.59	45	72819	7.463 ppbv	80
14) Bromoethene	3.72	108	946836	10.466 ppbv	99
15) Acetone	3.84	43	1192722	8.771 ppbv	98
16) 1,3-Butadiene	3.31	39	577242	10.143 ppbv	97
17) tert-Butyl alcohol	4.28	59	1703027	12.136 ppbv	99
18) 1,1-Dichloroethene	4.27	96	986030	10.040 ppbv	99
19) Isopropyl Alcohol	3.95	45	755084	11.235 ppbv	98
20) Methylene Chloride	4.33	84	816051	7.279 ppbv	99
21) Allyl Chloride	4.40	41	767780	11.264 ppbv	96
22) trans-1,2-Dichloroethene	4.87	96	977460	9.916 ppbv	99
23) Vinyl Acetate	5.06	43	1787455	11.916 ppbv #	98
24) 1,1-Dichloroethane	5.00	63	1730663	9.878 ppbv	100
25) Ethyl Acetate	5.66	43	2675311	10.051 ppbv	100
26) Hexane	5.67	57	1427529	10.005 ppbv	98
27) Carbon Disulfide	4.54	76	2183674	10.771 ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	2392544	11.350 ppbv	100
29) Chloroform	5.74	83	2621484	9.926 ppbv	97
30) Cyclohexane	7.12	84	1461765	11.479 ppbv	98
31) cis-1,2-Dichloroethene	5.54	61	1465287	11.320 ppbv	98
32) 1,1,1-Trichloroethane	6.50	97	2507550	10.370 ppbv	99
34) 2-Butanone	5.23	43	1647908	10.658 ppbv	97
35) Carbon Tetrachloride	7.01	117	2427485	10.194 ppbv	99
36) Benzene	6.88	78	3460771	10.882 ppbv	100
37) 1,2-Dichloroethane	6.29	62	1660380	10.174 ppbv	99
38) Trichloroethene	7.83	130	1512975	10.736 ppbv	99
39) 1,2-Dichloropropane	7.60	63	1213711	10.166 ppbv	97
40) 1,4-Dioxane	7.82	88	482073	12.096 ppbv	82
41) Tetrahydrofuran	6.03	42	968179	11.846 ppbv	97
42) Bromodichloromethane	7.78	83	2771638	10.853 ppbv	98
43) Methyl Methacrylate	8.00	69	1413330	12.121 ppbv	98

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Quant Time: Dec 03 16:53:02 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec 03 2020
 QLast Update : Thu Dec 03 14:59:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	4743851	10.140	ppbv	99
45) t-1,3-Dichloropropene	9.27	75	1478491	13.560	ppbv	99
46) cis-1,3-Dichloropropene	8.69	75	1850623	12.870	ppbv	99
47) 1,1,2-Trichloroethane	9.47	97	1542844	10.177	ppbv	98
48) Dibromochloromethane	10.30	129	2387394	11.354	ppbv	99
49) Bromoform	13.03	173	1894817	12.169	ppbv	99
50) 4-Methyl-2-Pentanone	8.73	43	2568030	10.618	ppbv	98
51) 2-Hexanone	10.12	43	2058602	11.820	ppbv #	97
52) Tetrachloroethene	11.21	164	1354369	11.072	ppbv	99
53) Toluene	9.80	91	4054315	11.664	ppbv	99
54) 1,2-Dibromoethane	10.60	107	2299273	10.792	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.12	131	1849153	10.003	ppbv	98
57) Chlorobenzene	12.14	112	3165864	9.502	ppbv	98
58) Ethyl Benzene	12.70	91	5089754	11.225	ppbv	99
59) m/p-Xylene	12.99	91	8532712m	20.728	ppbv	
60) o-Xylene	13.69	91	4129848	9.978	ppbv	98
61) Styrene	13.52	104	2975761	12.582	ppbv	99
62) Isopropylbenzene	14.66	105	6074158	9.874	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.67	83	2930519	8.612	ppbv	100
64) n-propylbenzene	15.55	120	1727725	10.613	ppbv	97
65) tert-Butylbenzene	16.74	119	5216598	10.102	ppbv	99
66) Benzyl Chloride	16.98	91	1540315	12.481	ppbv	98
67) sec-Butylbenzene	17.29	105	6994762	9.876	ppbv	99
69) p-Isopropyltoluene	17.65	119	5636576	10.618	ppbv	99
70) n-Butylbenzene	18.55	91	5496792	10.378	ppbv	100
71) 2-Chlorotoluene	15.45	91	4468648	10.494	ppbv	98
72) 4-Ethyltoluene	15.83	105	4711064	11.006	ppbv	99
73) 1,3,5-Trimethylbenzene	15.99	105	4247390	10.554	ppbv	98
74) 1,2,4-Trimethylbenzene	16.76	105	4427291	9.880	ppbv	98
75) 1,3-Dichlorobenzene	16.99	146	2631414	9.805	ppbv	99
76) 1,4-Dichlorobenzene	17.13	146	2565931	10.119	ppbv	99
77) 1,2-Dichlorobenzene	17.82	146	2422148	9.781	ppbv	99
78) Hexachloro-1,3-Butadiene	23.37	225	1351750	9.897	ppbv	100
79) Naphthalene	22.19	128	2971961	13.892	ppbv	99
80) Naphthalene, 2-methyl-	24.97	142	1257950	28.083	ppbv	96
81) 1,2,4-Trichlorobenzene	21.92	180	1737887	12.015	ppbv	100

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

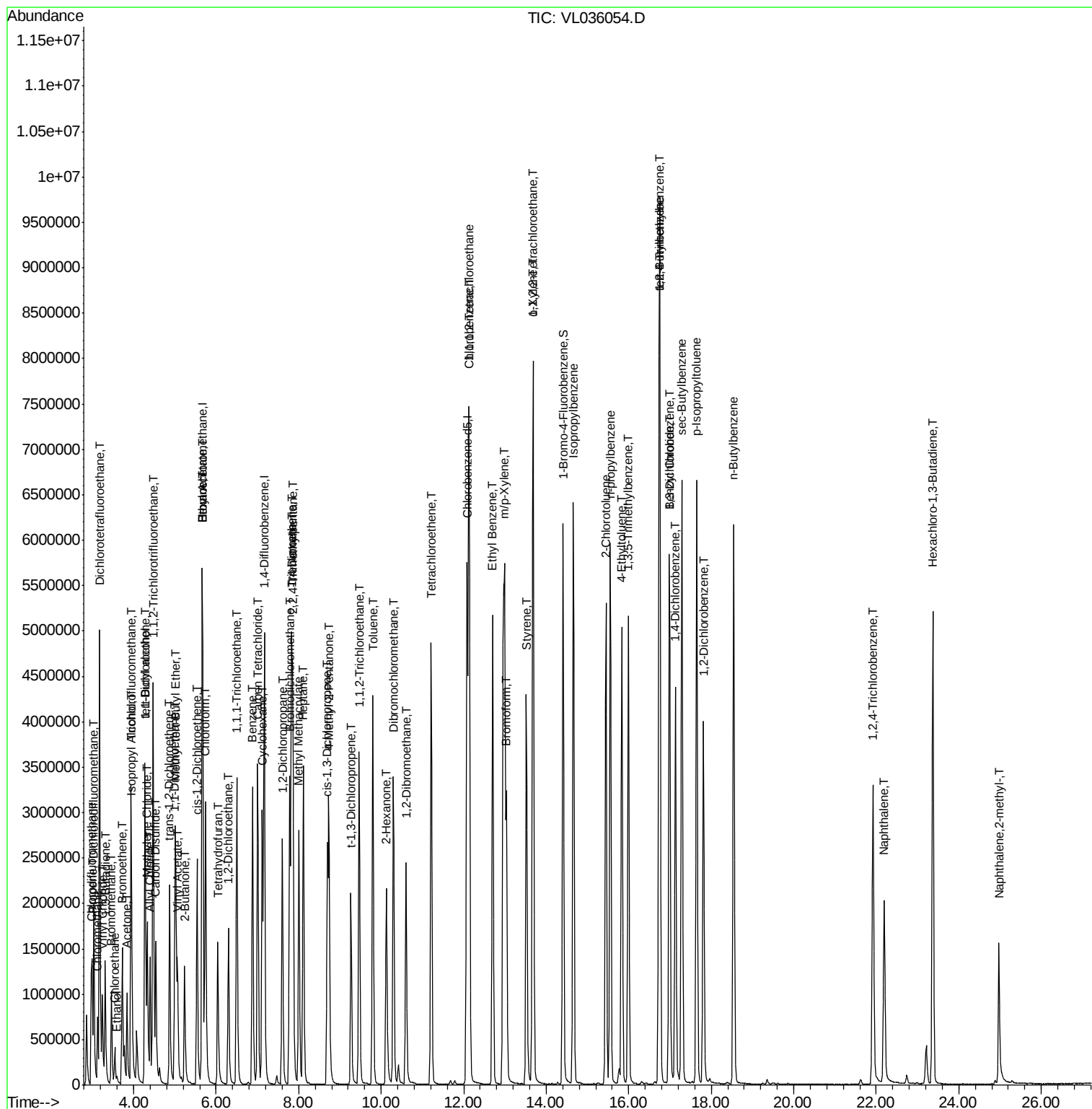
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL120320\
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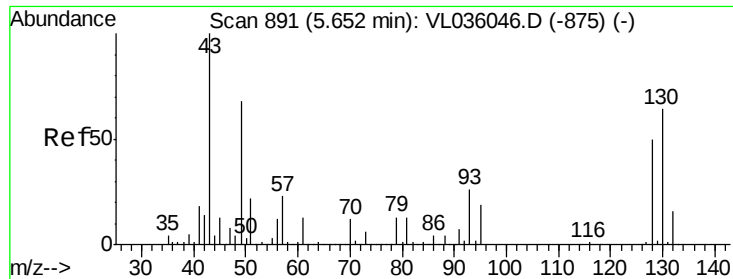
Instrument :
MSVOA_L
ClientSampleId :
ICVVL120320

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Quant Time: Dec 03 16:53:02 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL120320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec
QLast Update : Thu Dec 03 14:59:53 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. 0.00 min

Lab File: VL036054.D

Acq: 3 Dec 2020 16:13

Instrument :

MSVOA_L

ClientSampleId :

ICVVL120320

Tot Ion: 49 Resp: 1256704

Ion Ratio Lower Upper

49 100

128 76.2 38.3 114.8

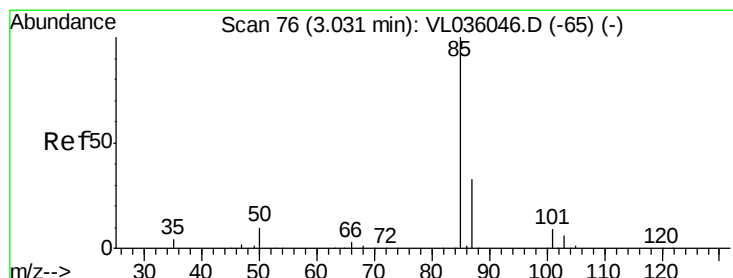
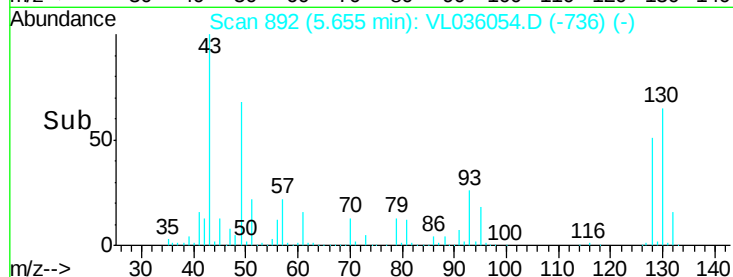
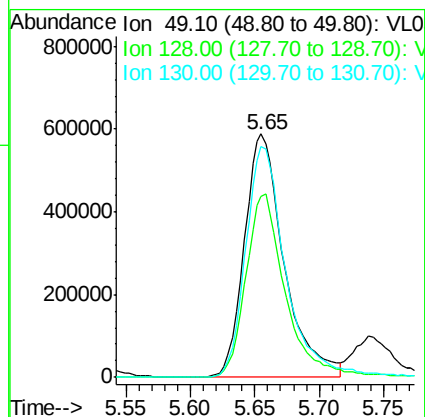
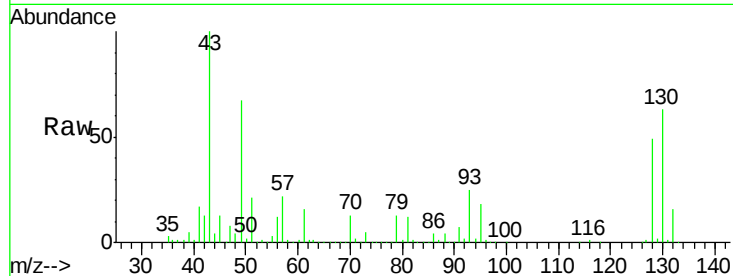
130 97.6 49.1 147.4

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 8.432 ppbv

RT: 3.03 min Scan# 77

Delta R.T. 0.00 min

Lab File: VL036054.D

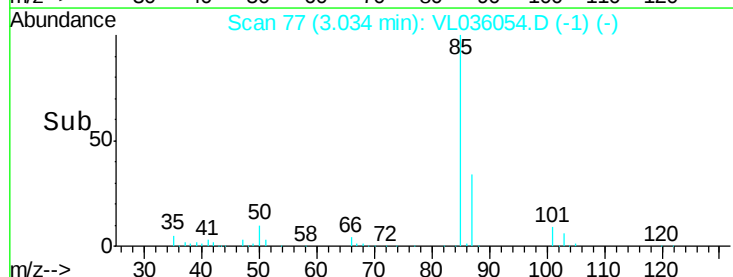
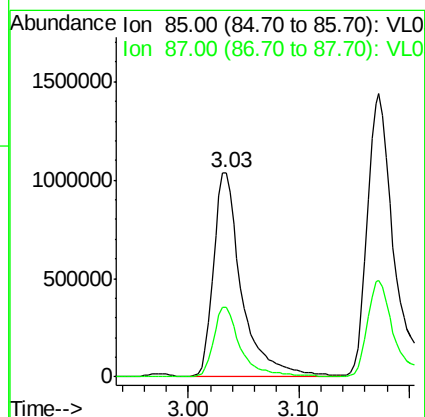
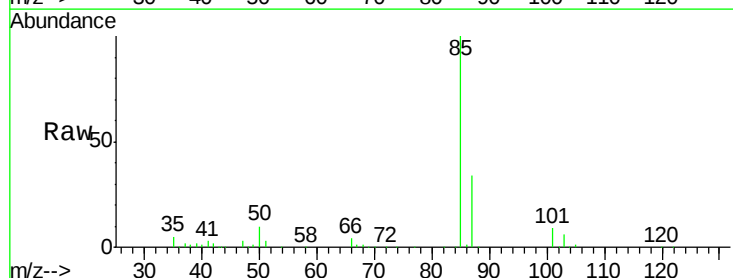
Acq: 3 Dec 2020 16:13

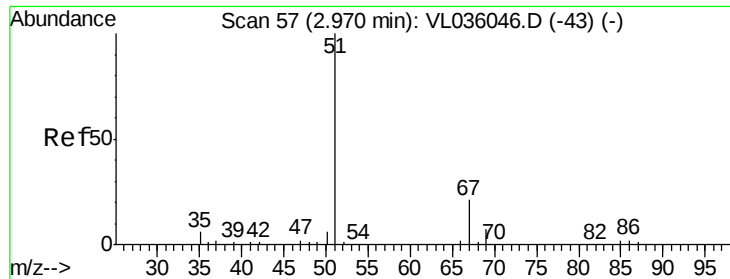
Tgt Ion: 85 Resp: 1823761

Ion Ratio Lower Upper

85 100

87 34.0 26.8 40.2





#3

Chlorodifluoromethane

Concen: 9.854 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.00 min

Lab File: VL036054.D

Acq: 3 Dec 2020 16:13

Tot Ion: 51 Resp: 1453307

Ion Ratio Lower Upper

51 100

67 20.7 16.9 25.3

Instrument :

MSVOA_L

ClientSampleId :

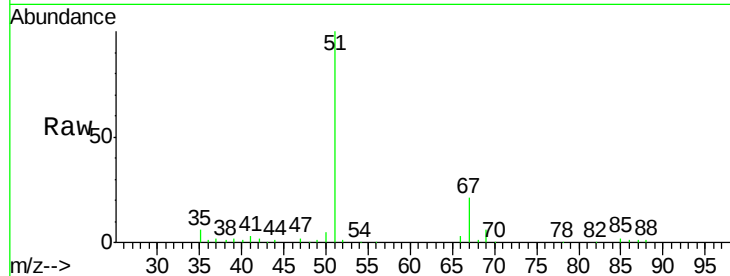
ICVVL120320

Manual Integrations

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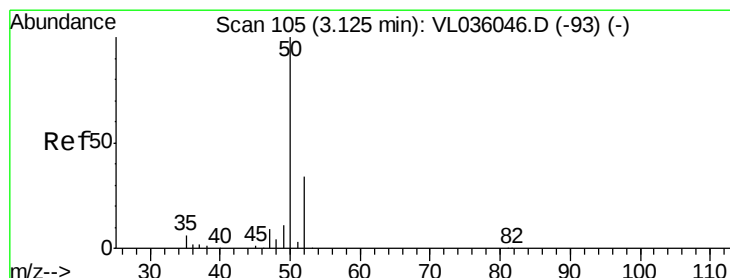
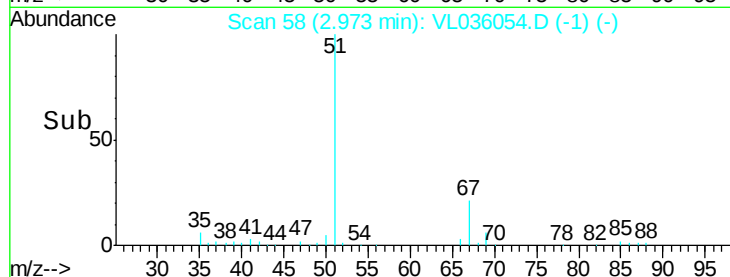
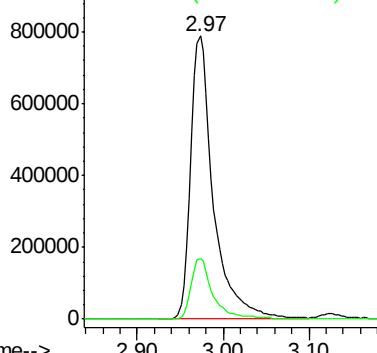
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 10.082 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.00 min

Lab File: VL036054.D

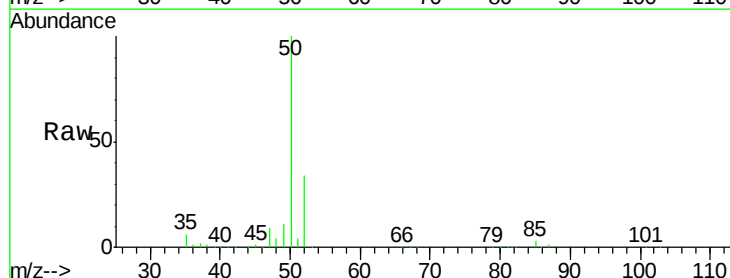
Acq: 3 Dec 2020 16:13

Tgt Ion: 50 Resp: 731108

Ion Ratio Lower Upper

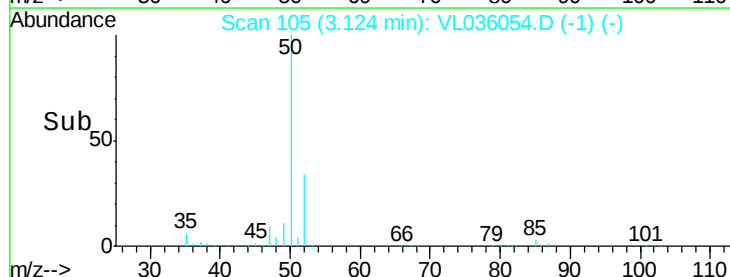
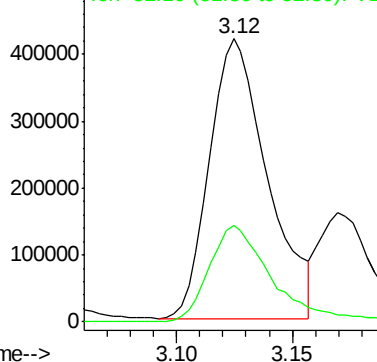
50 100

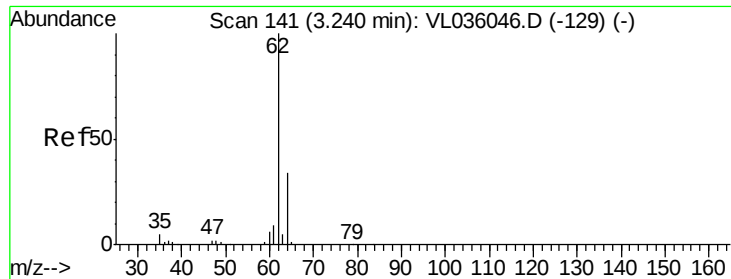
52 34.3 27.6 41.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.918 ppbv

RT: 3.24 min Scan# 142

Delta R.T. 0.00 min

Lab File: VL036054.D

Acq: 3 Dec 2020 16:13

Instrument :

MSVOA_L

ClientSampled :

ICVVL120320

Tot Ion: 62 Resp: 913127

Ion Ratio Lower Upper

62 100

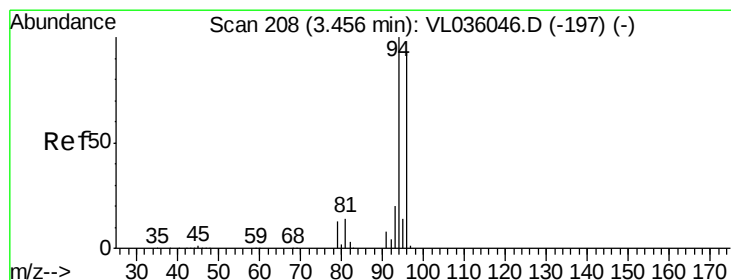
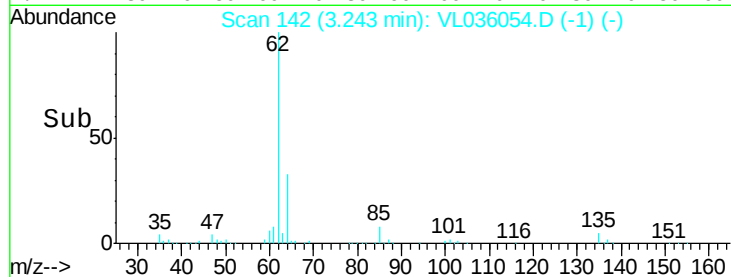
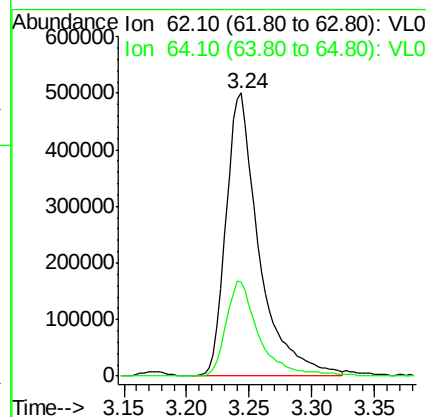
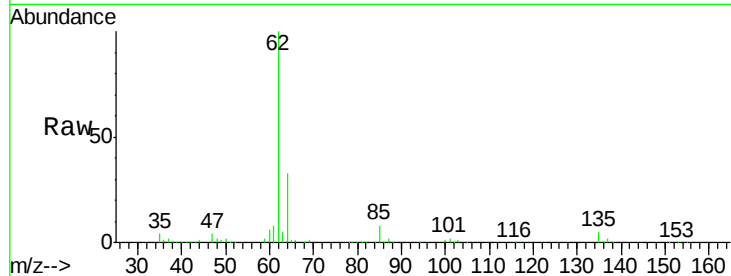
64 33.1 26.8 40.2

Manual Integrations

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#6

Bromomethane

Concen: 10.206 ppbv

RT: 3.46 min Scan# 209

Delta R.T. 0.00 min

Lab File: VL036054.D

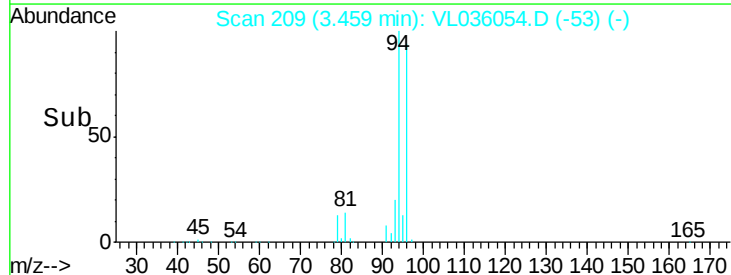
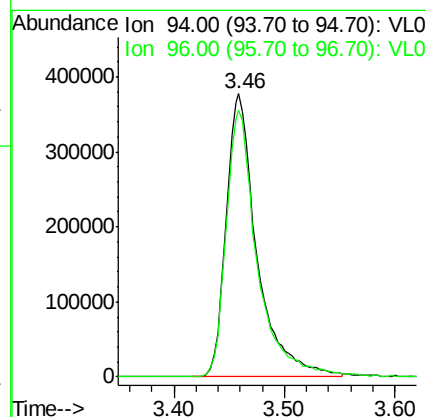
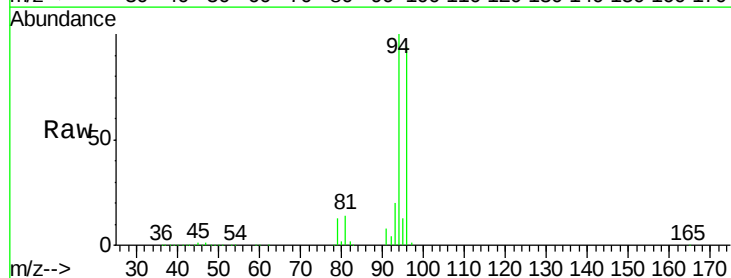
Acq: 3 Dec 2020 16:13

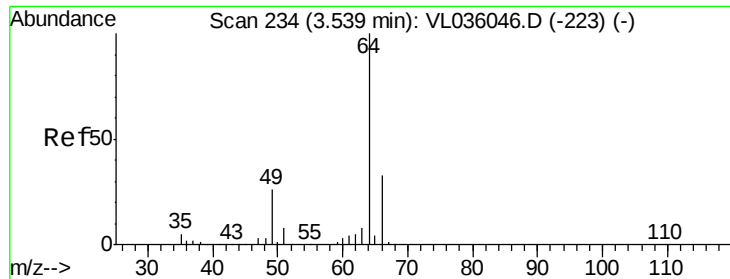
Tgt Ion: 94 Resp: 729889

Ion Ratio Lower Upper

94 100

96 94.4 74.8 112.2





#7

Chloroethane

Concen: 10.478 ppbv

RT: 3.54 min Scan# 235

Delta R.T. 0.00 min

Lab File: VL036054.D

Acq: 3 Dec 2020 16:13

Instrument :

MSVOA_L

ClientSampleId :

ICVVL120320

Tot Ion: 64 Resp: 345466

Ion Ratio Lower Upper

64 100

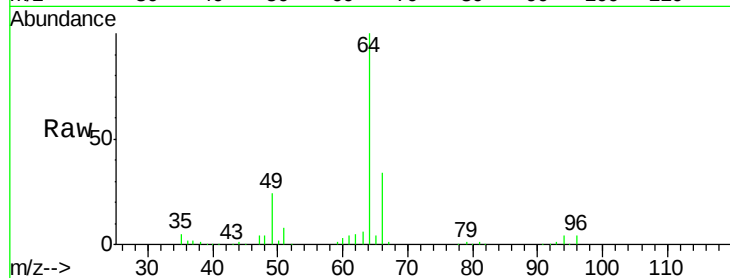
66 33.8 26.1 39.1

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

3.54

200000

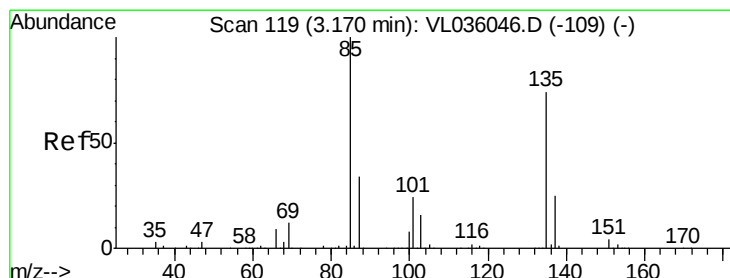
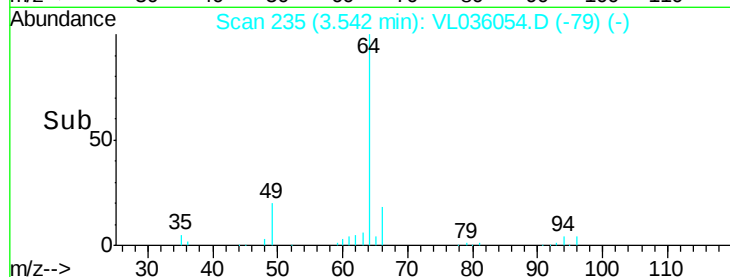
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.610 ppbv

RT: 3.17 min Scan# 120

Delta R.T. 0.00 min

Lab File: VL036054.D

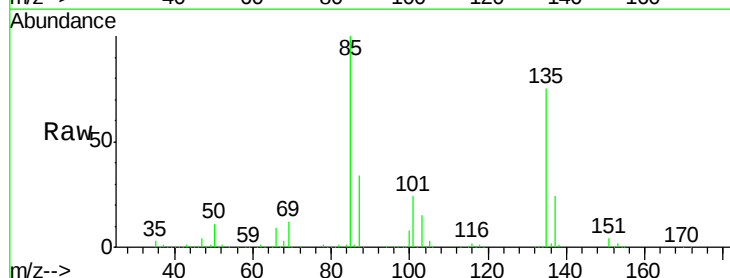
Acq: 3 Dec 2020 16:13

Tgt Ion: 85 Resp: 2482266

Ion Ratio Lower Upper

85 100

135 75.3 60.2 90.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.17

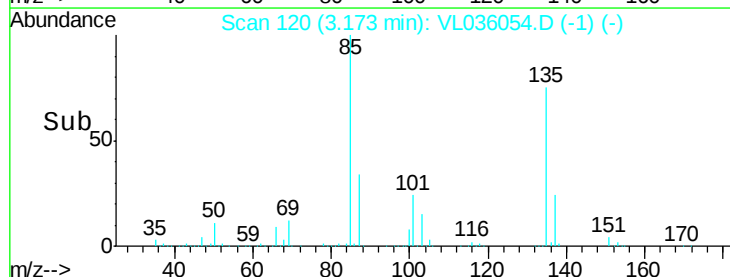
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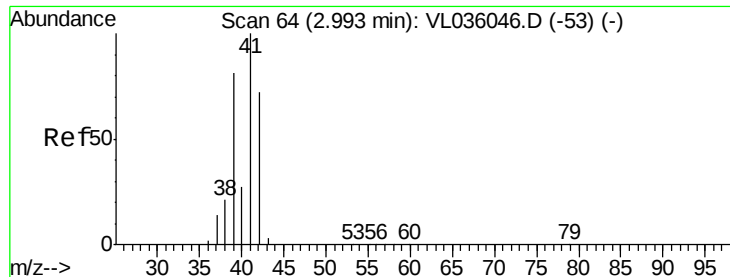
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500000

0

Time-->





#9

Propene

Concen: 10.725 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.00 min

Lab File: VL036054.D

Acq: 3 Dec 2020 16:13

Instrument :

MSVOA_L

ClientSampleId :

ICVVL120320

Tot Ion: 41 Resp: 553385

Ion Ratio Lower Upper

41 100

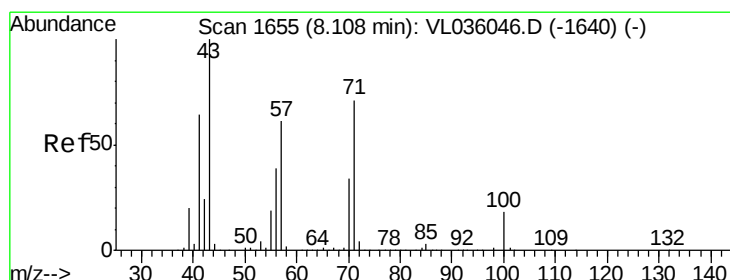
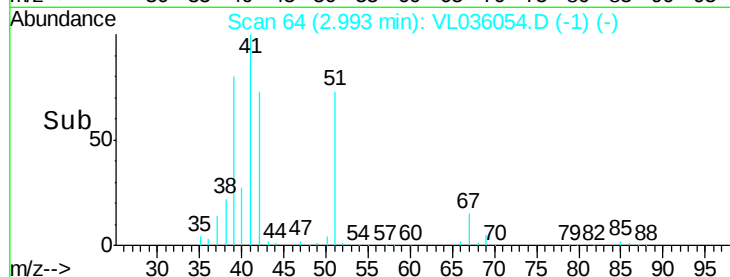
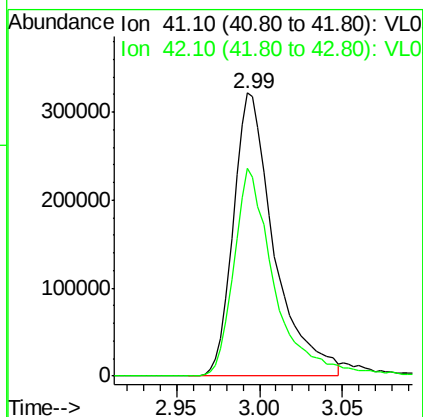
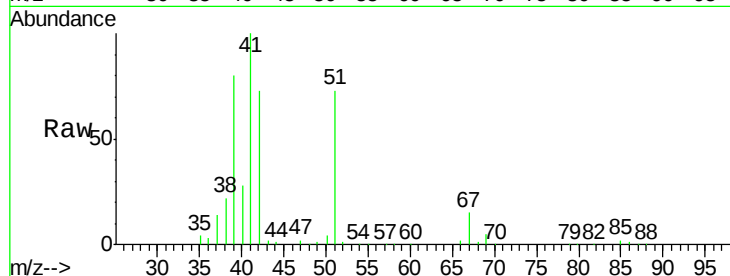
42 74.0 56.9 85.3

Manual Integrations

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#10

Heptane

Concen: 10.980 ppbv

RT: 8.11 min Scan# 1656

Delta R.T. 0.00 min

Lab File: VL036054.D

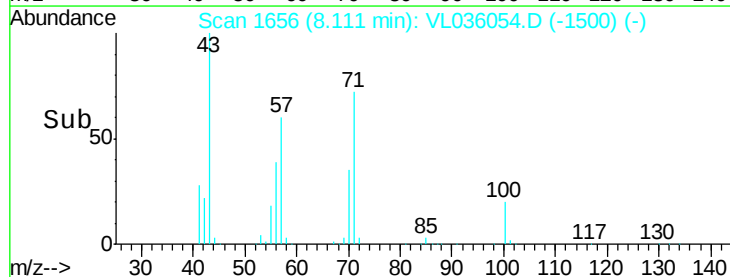
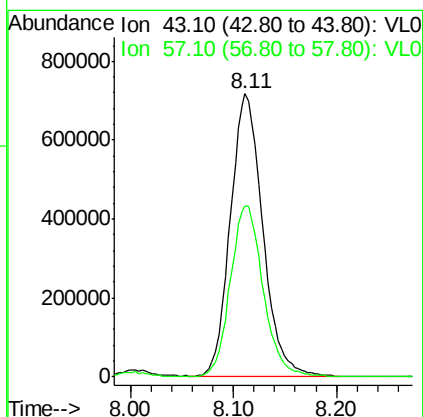
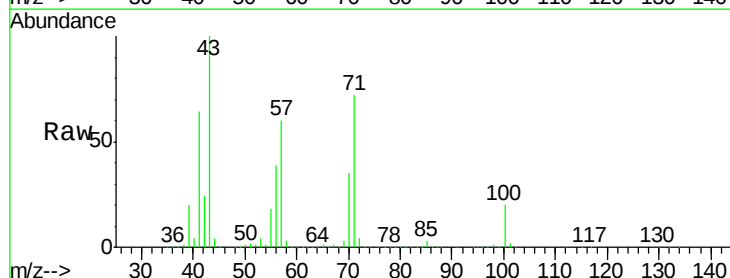
Acq: 3 Dec 2020 16:13

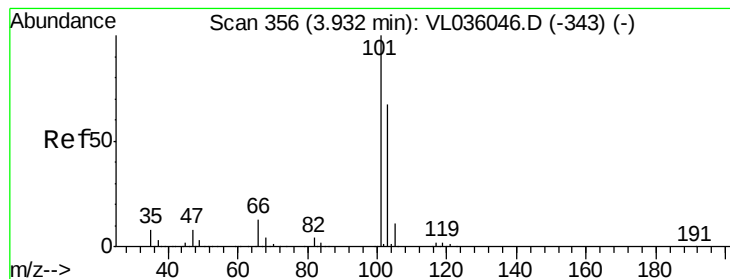
Tgt Ion: 43 Resp: 1563991

Ion Ratio Lower Upper

43 100

57 61.9 49.2 73.8





#11

Trichlorofluoromethane

Concen: 9.396 ppbv

RT: 3.93 min Scan# 357

Delta R.T. 0.00 min

Lab File: VL036054.D

Acq: 3 Dec 2020 16:13

Instrument :

MSVOA_L

ClientSampleId :

ICVVL120320

Tot Ion:101 Resp: 2736368

Ion Ratio Lower Upper

101 100

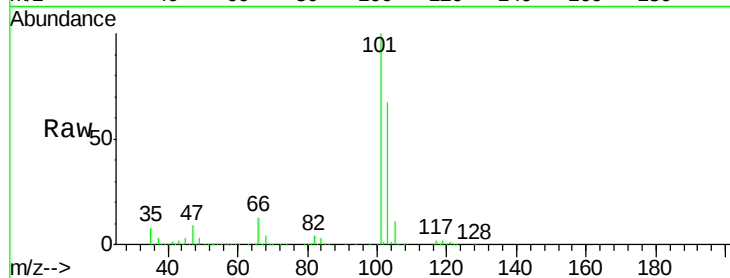
103 66.6 53.2 79.8

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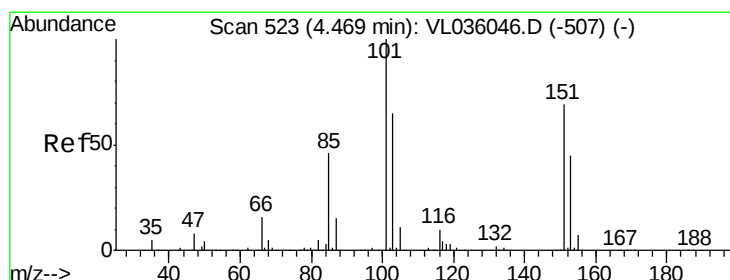
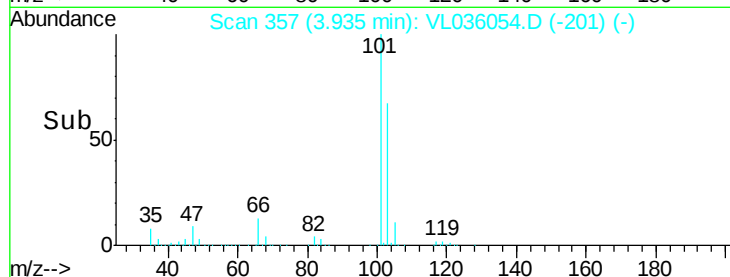
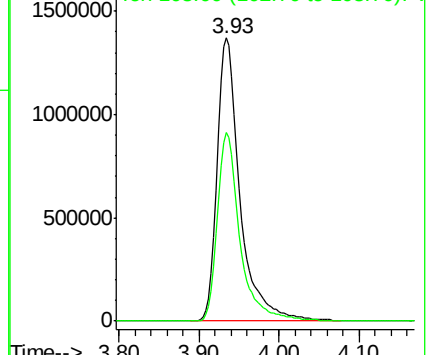
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.356 ppbv

RT: 4.47 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL036054.D

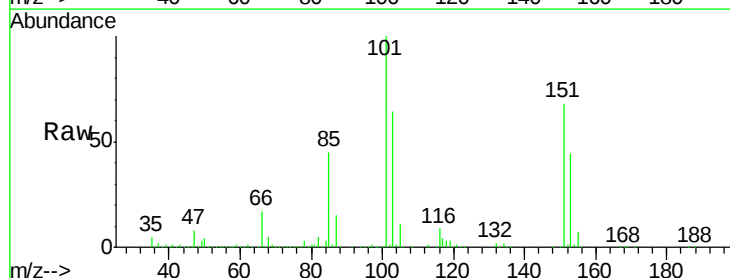
Acq: 3 Dec 2020 16:13

Tgt Ion:101 Resp: 2076514

Ion Ratio Lower Upper

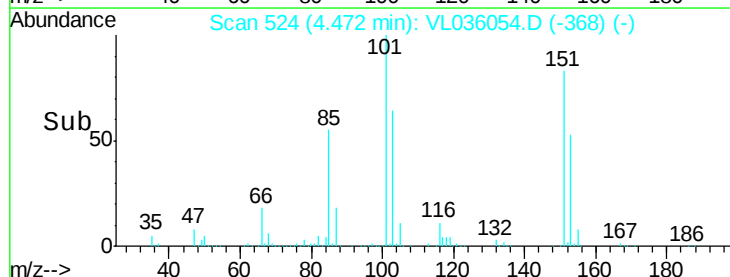
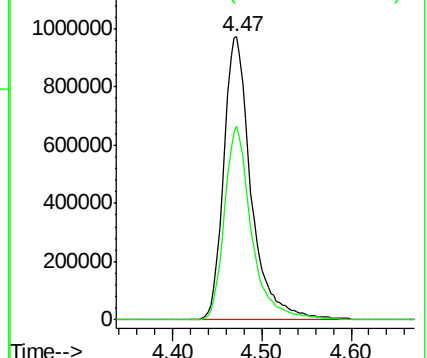
101 100

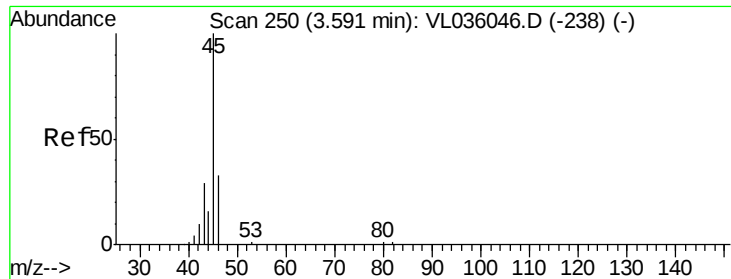
151 67.7 56.1 84.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 7.463 ppbv

RT: 3.59 min Scan# 251

Delta R.T. 0.00 min

Lab File: VL036054.D

Acq: 3 Dec 2020 16:13

Instrument :

MSVOA_L

ClientSampleId :

ICVVL120320

Tot Ion: 45 Resp: 72819

Ion Ratio Lower Upper

45 100

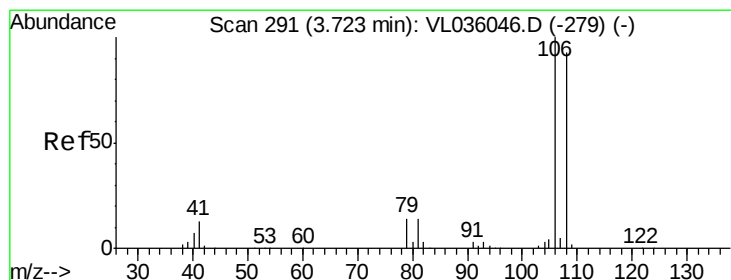
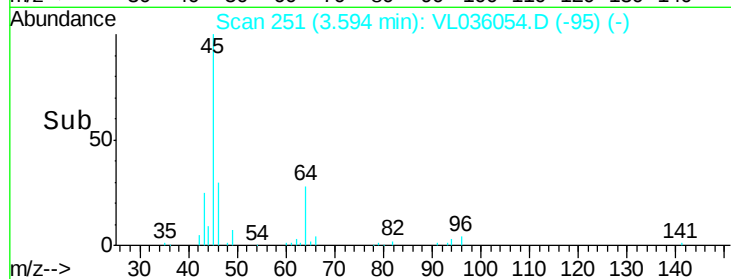
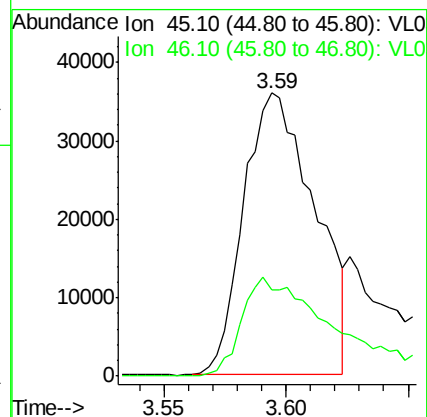
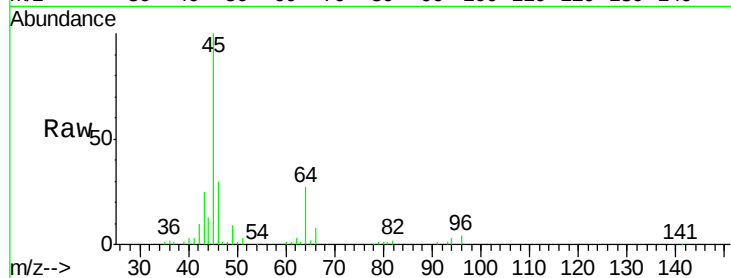
46 52.5 16.0 64.2

Manual Integrations

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#14

Bromoethene

Concen: 10.466 ppbv

RT: 3.72 min Scan# 291

Delta R.T. -0.00 min

Lab File: VL036054.D

Acq: 3 Dec 2020 16:13

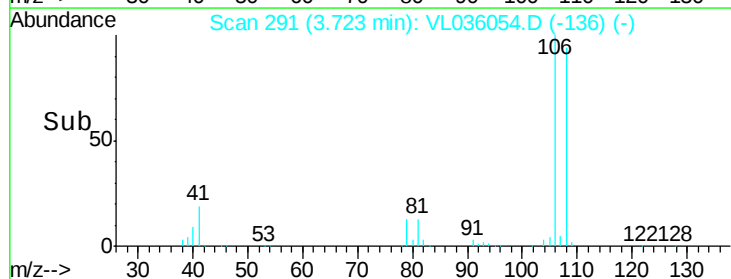
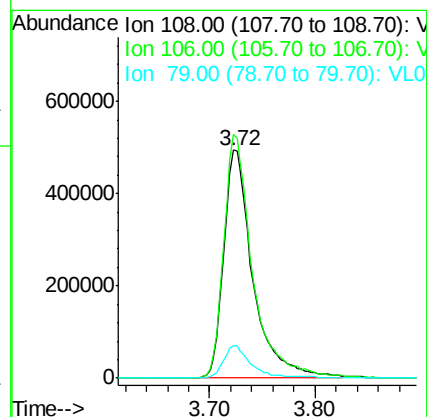
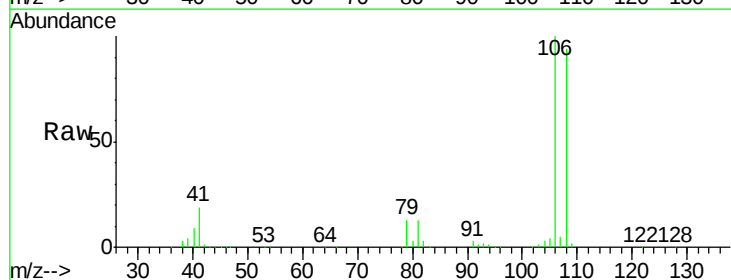
Tgt Ion: 108 Resp: 946836

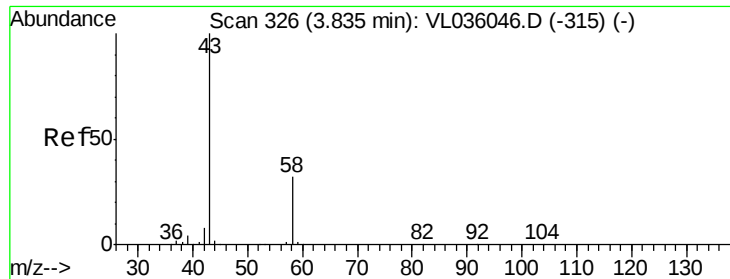
Ion Ratio Lower Upper

108 100

106 106.5 85.0 127.4

79 14.0 11.9 17.9





#15

Acetone

Concen: 8.771 ppbv

RT: 3.84 min Scan# 326

Delta R.T. -0.00 min

Lab File: VL036054.D

Acq: 3 Dec 2020 16:13

Instrument :

MSVOA_L

ClientSampleId :

ICVVL120320

Tot Ion: 43 Resp: 1192722

Ion Ratio Lower Upper

43 100

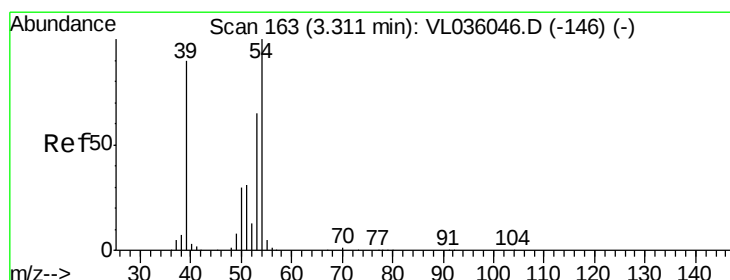
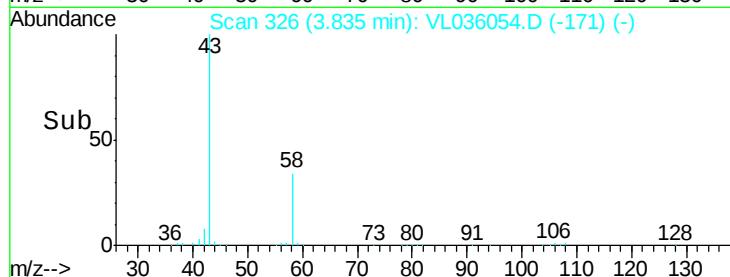
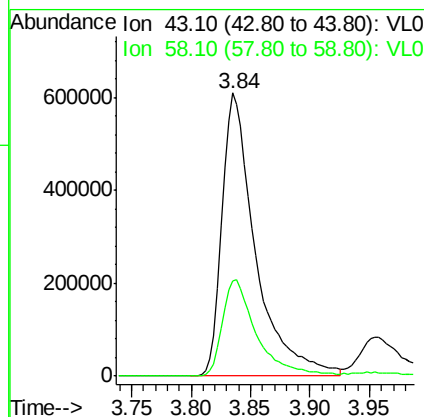
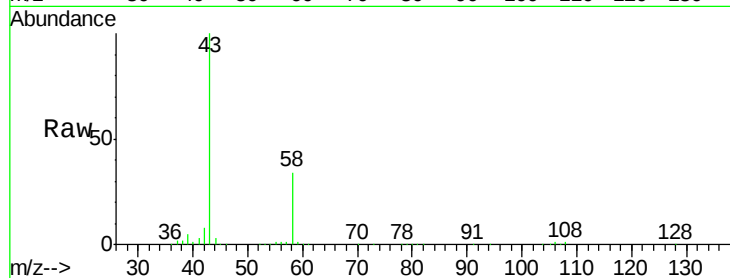
58 34.8 27.0 40.6

Manual Integrations

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#16

1,3-Butadiene

Concen: 10.143 ppbv

RT: 3.31 min Scan# 163

Delta R.T. -0.00 min

Lab File: VL036054.D

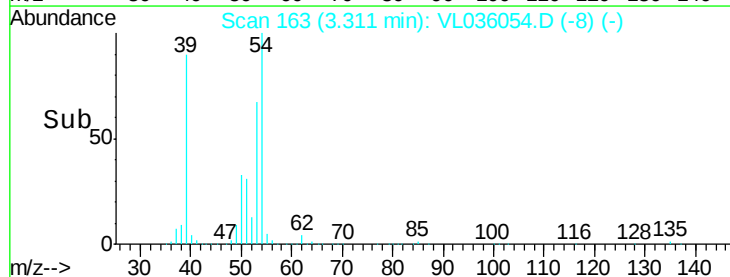
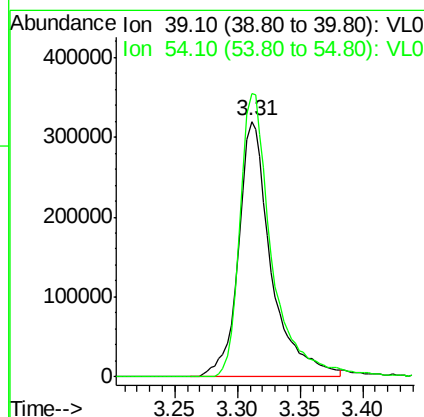
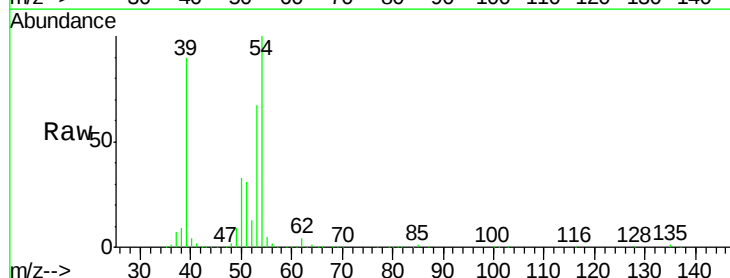
Acq: 3 Dec 2020 16:13

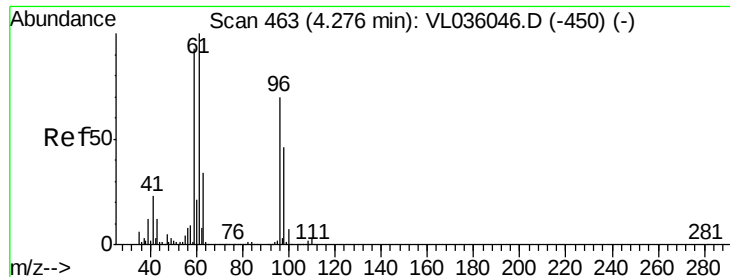
Tgt Ion: 39 Resp: 577242

Ion Ratio Lower Upper

39 100

54 110.2 86.1 129.1





#17

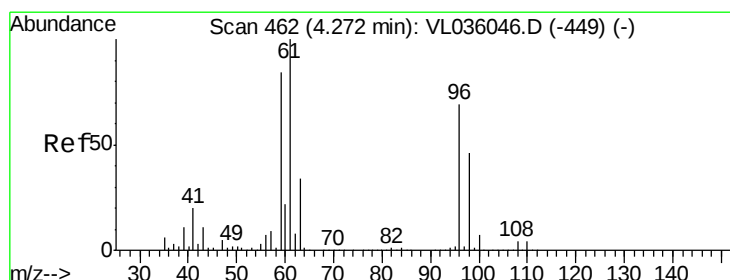
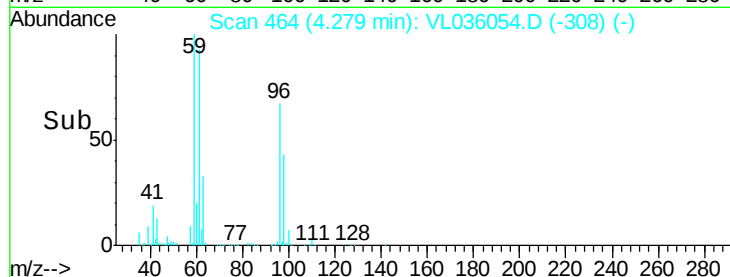
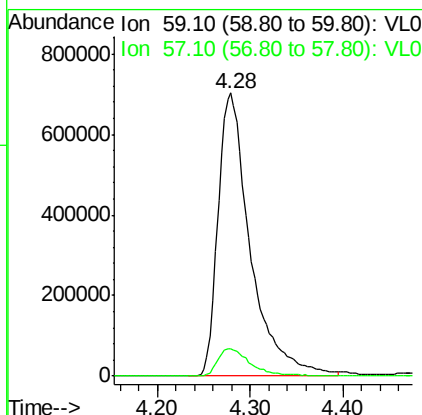
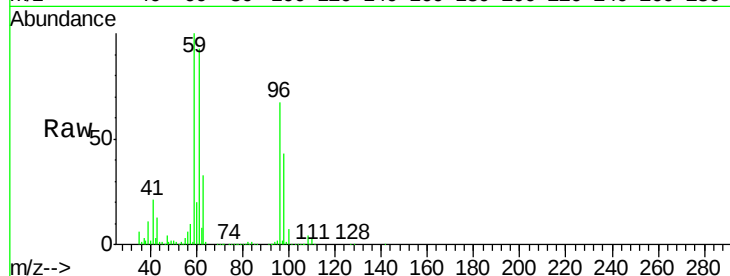
tert-Butyl alcohol
Concen: 12.136 ppbv
RT: 4.28 min Scan# 464
Delta R.T. 0.00 min
Lab File: VL036054.D
Acq: 3 Dec 2020 16:13

Instrument :
MSVOA_L
ClientSampleId :
ICVVL120320

Tot Ion: 59 Resp: 1703027
Ion Ratio Lower Upper
59 100
57 10.3 8.4 12.6

Manual Integrations
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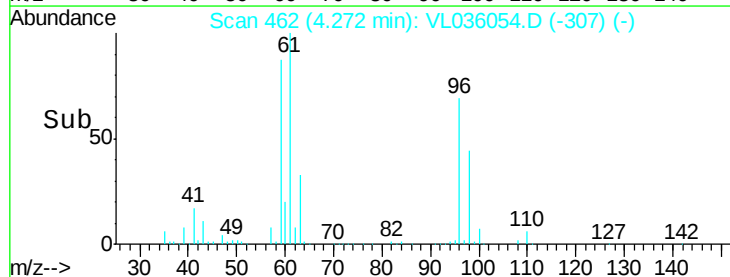
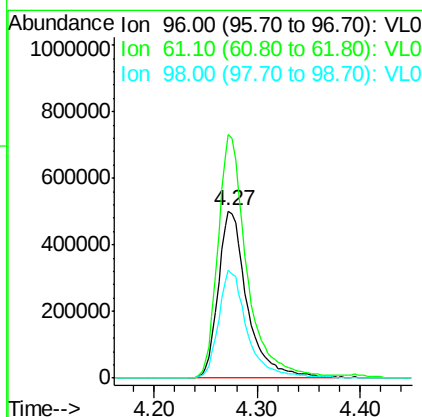
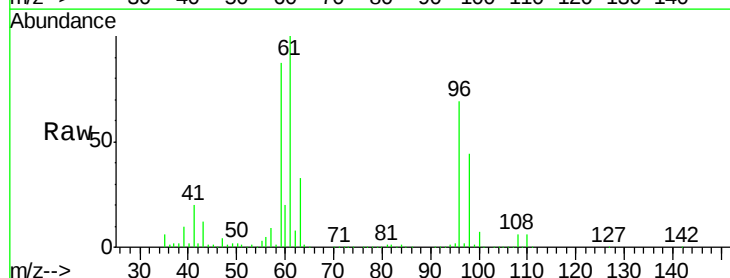
MMDadoda
12/7/2020 12:08:33 PM

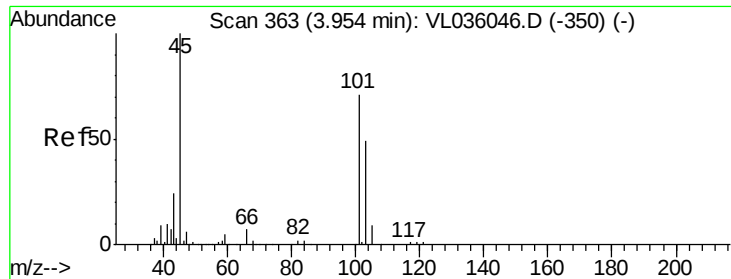


#18

1,1-Dichloroethene
Concen: 10.040 ppbv
RT: 4.27 min Scan# 462
Delta R.T. -0.00 min
Lab File: VL036054.D
Acq: 3 Dec 2020 16:13

Tgt Ion: 96 Resp: 986030
Ion Ratio Lower Upper
96 100
61 145.5 115.8 173.6
98 64.4 53.1 79.7





#19

Isopropyl Alcohol

Concen: 11.235 ppbv

RT: 3.95 min Scan# 363

Delta R.T. -0.00 min

Lab File: VL036054.D

Acq: 3 Dec 2020 16:13

Instrument :

MSVOA_L

ClientSampleId :

ICVVL120320

Tot Ion: 45 Resp: 755084

Ion Ratio Lower Upper

45 100

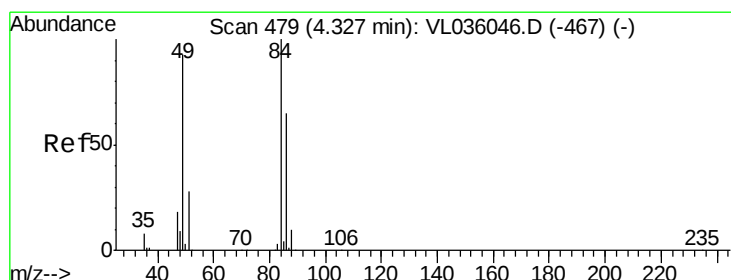
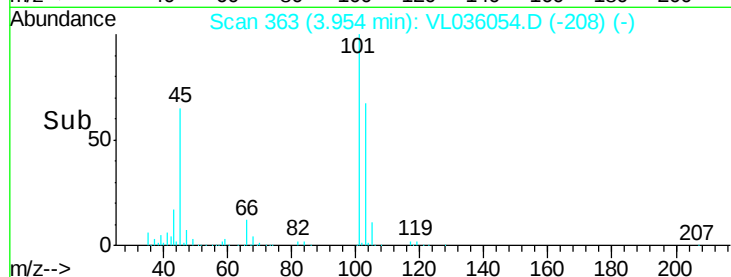
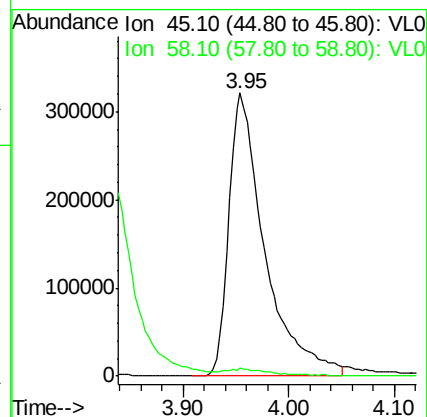
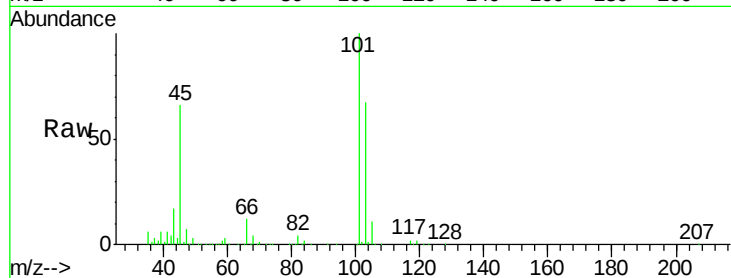
58 3.5 3.4 5.0

Manual Integrations

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#20

Methylene Chloride

Concen: 7.279 ppbv

RT: 4.33 min Scan# 480

Delta R.T. 0.00 min

Lab File: VL036054.D

Acq: 3 Dec 2020 16:13

Tgt Ion: 84 Resp: 816051

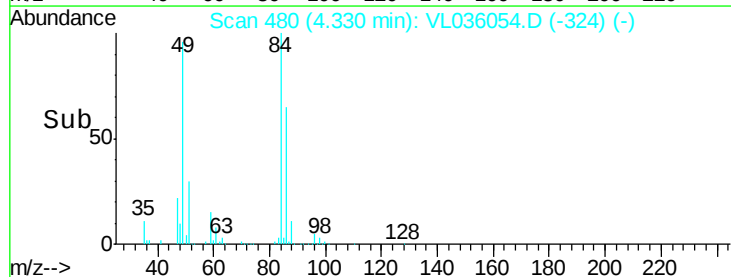
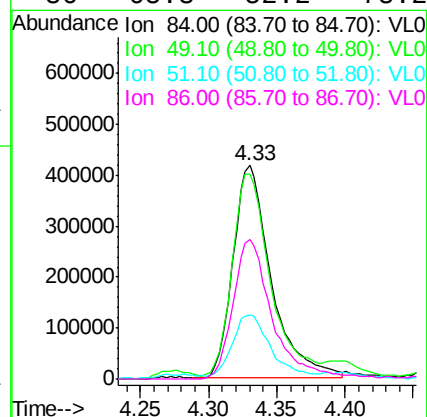
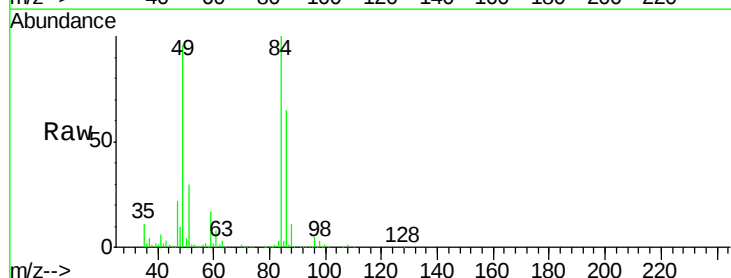
Ion Ratio Lower Upper

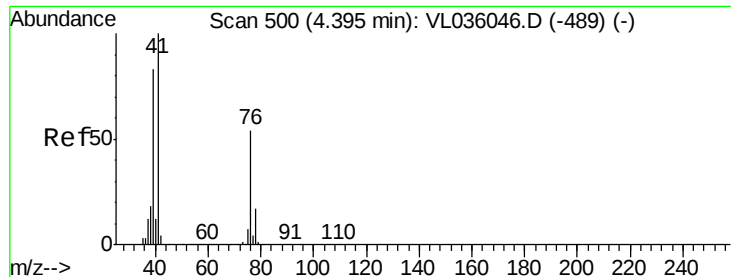
84 100

49 94.2 74.4 111.6

51 28.5 22.5 33.7

86 65.3 52.2 78.2





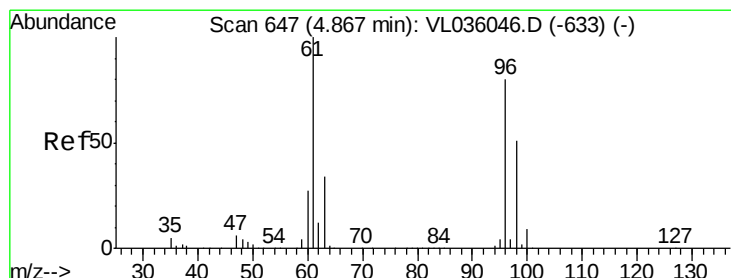
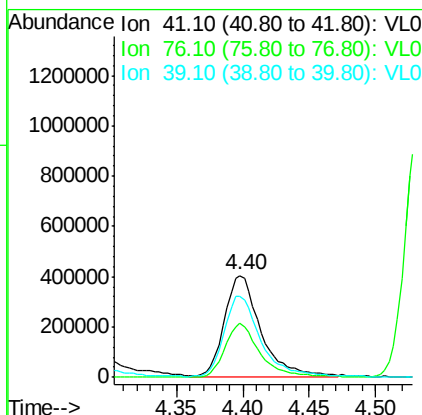
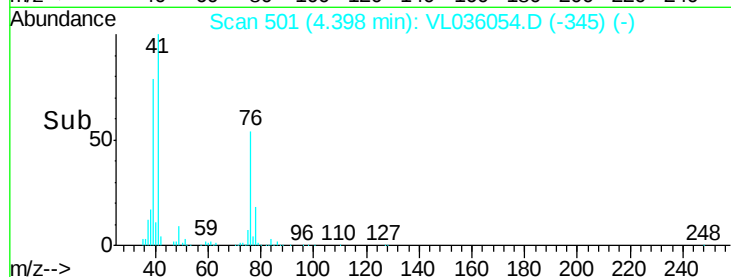
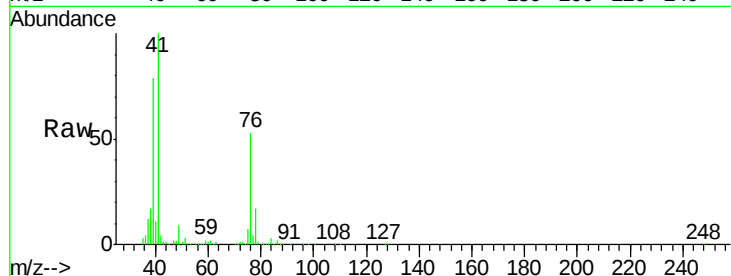
#21
Allvl Chloride
Concen: 11.264 ppbv
RT: 4.40 min Scan# 501
Delta R.T. 0.00 min
Lab File: VL036054.D
Acq: 3 Dec 2020 16:13

Instrument :
MSVOA_L
ClientSampleId :
ICVVL120320

Tot Ion	Ratio	Lower	Upper
41	100		
76	51.8	42.4	63.6
39	81.2	69.0	103.6

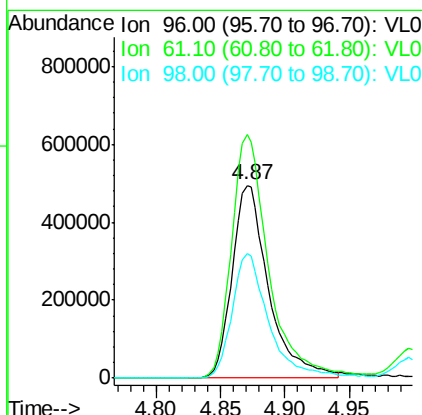
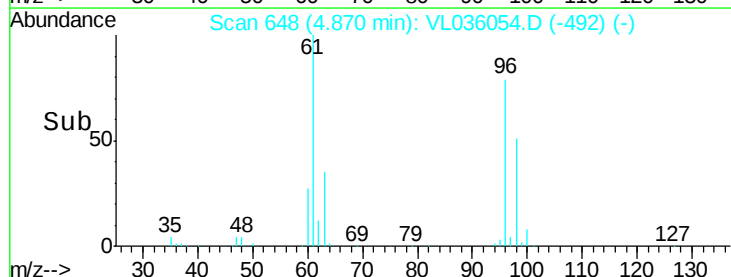
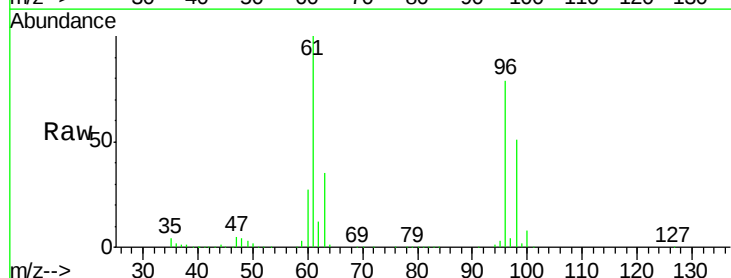
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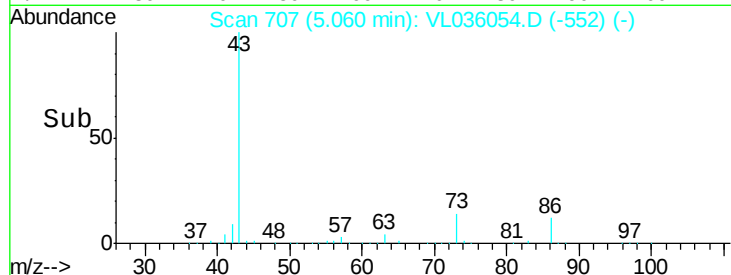
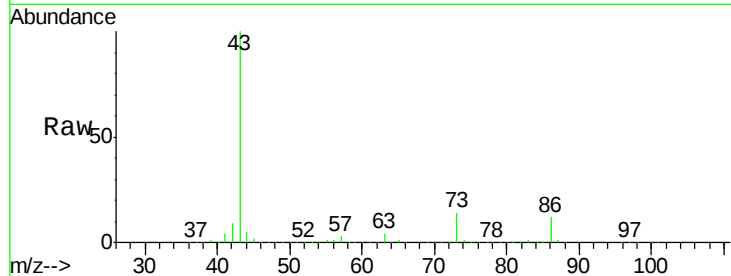
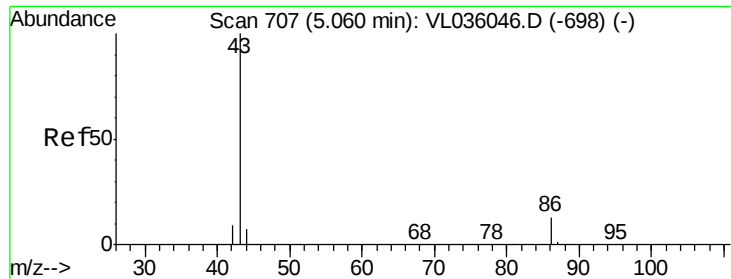
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#22
trans-1,2-Dichloroethene
Concen: 9.916 ppbv
RT: 4.87 min Scan# 648
Delta R.T. 0.00 min
Lab File: VL036054.D
Acq: 3 Dec 2020 16:13

Tgt Ion	Ratio	Lower	Upper
96	100		
61	126.3	99.8	149.6
98	64.5	51.1	76.7





#23

Vinyl Acetate

Concen: 11.916 ppbv

RT: 5.06 min Scan# 707

Delta R.T. -0.00 min

Lab File: VL036054.D

Acq: 3 Dec 2020 16:13

Tot Ion: 43 Resp: 1787455

Ion Ratio Lower Upper

43 100

86 12.2 9.3 13.9

42 9.3 8.1 12.1

44 4.4 4.7 7.1#

Instrument :

MSVOA_L

ClientSampleId :

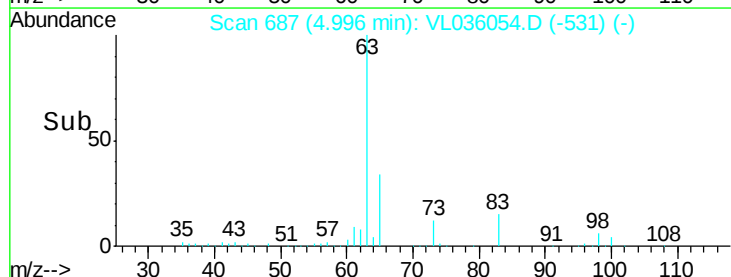
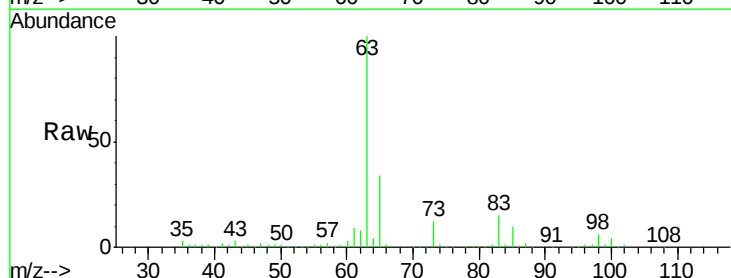
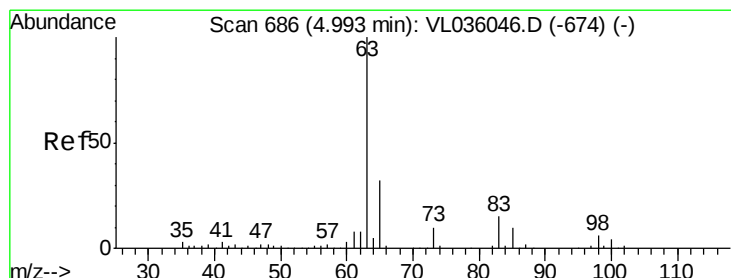
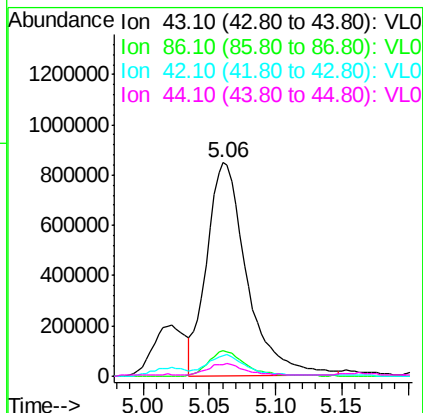
ICVVL120320

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 9.878 ppbv

RT: 5.00 min Scan# 687

Delta R.T. 0.00 min

Lab File: VL036054.D

Acq: 3 Dec 2020 16:13

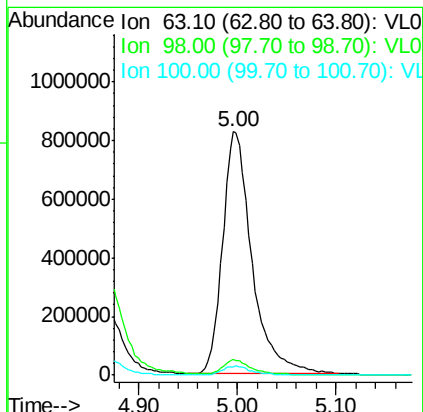
Tgt Ion: 63 Resp: 1730663

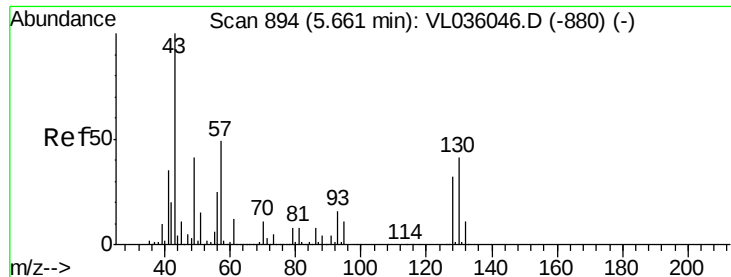
Ion Ratio Lower Upper

63 100

98 6.1 3.1 9.3

100 3.5 1.9 5.7





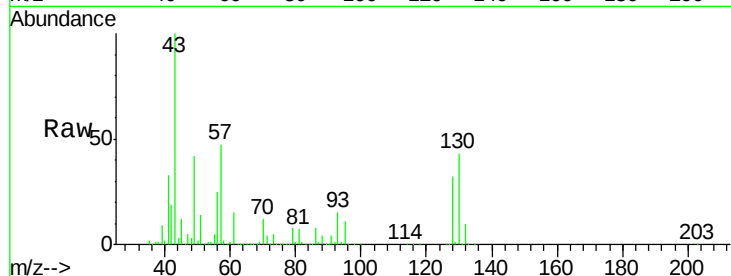
#25
Ethyl Acetate
Concen: 10.051 ppbv
RT: 5.66 min Scan# 895
Delta R.T. 0.00 min
Lab File: VL036054.D
Acq: 3 Dec 2020 16:13

Instrument :
MSVOA_L
ClientSampleId :
ICVVL120320

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.7	8.6	13.0	
61	13.6	10.6	16.0	
70	10.2	8.1	12.1	

Manual Integrations
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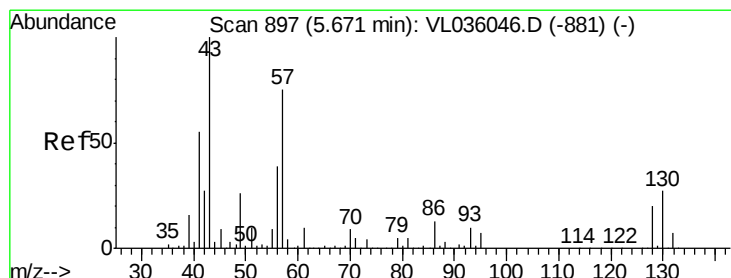
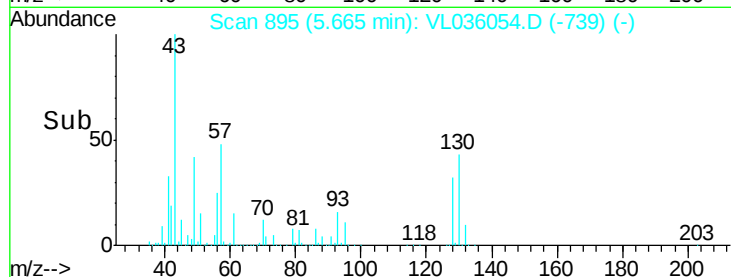
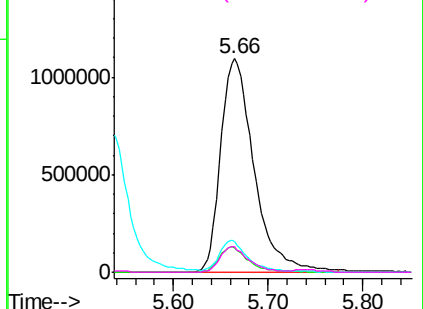
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 10.005 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.00 min
Lab File: VL036054.D
Acq: 3 Dec 2020 16:13

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	72.6	61.6	92.4	
43	189.5	152.9	229.3	
56	52.6	43.0	64.6	

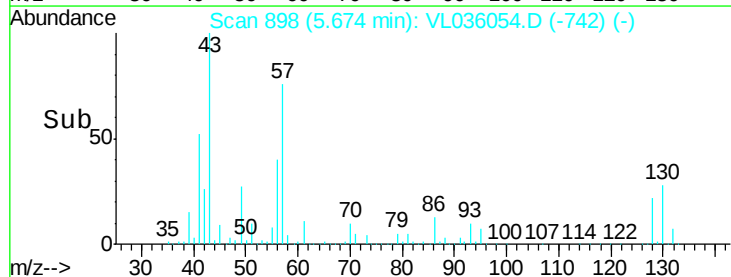
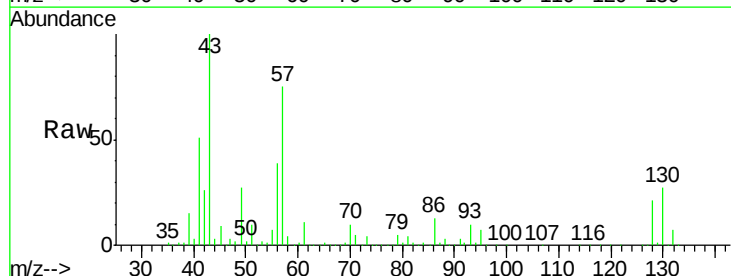
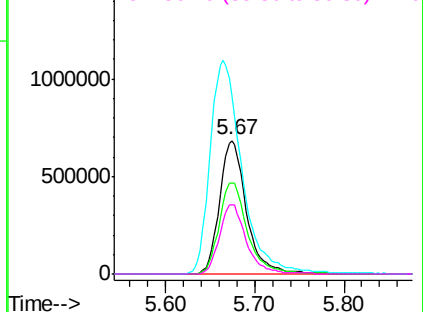
Abundance

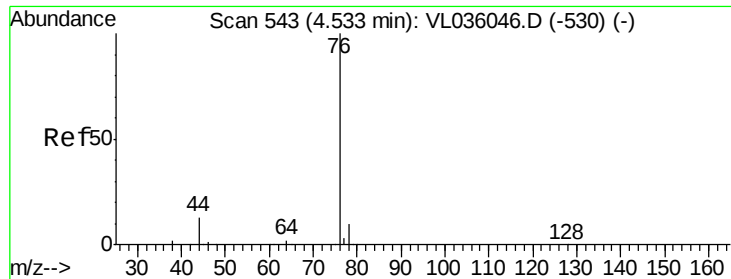
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





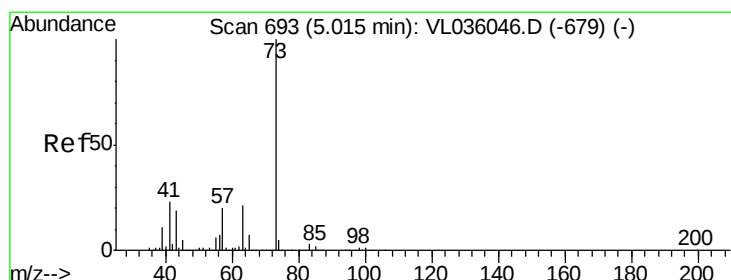
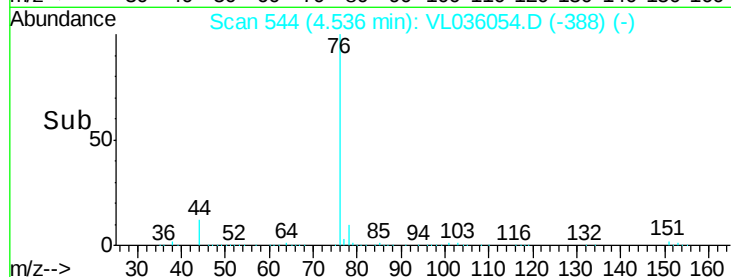
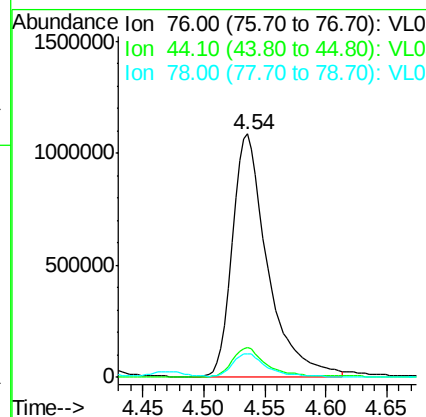
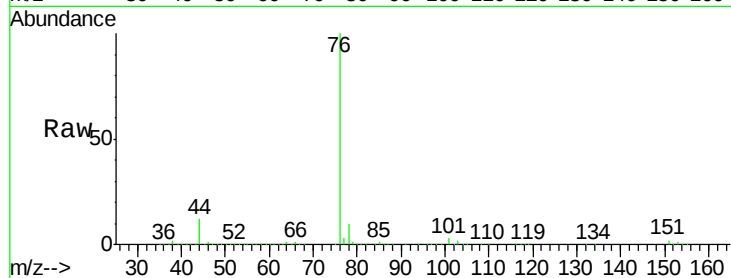
#27
Carbon Disulfide
Concen: 10.771 ppbv
RT: 4.54 min Scan# 544
Delta R.T. 0.00 min
Lab File: VL036054.D
Acq: 3 Dec 2020 16:13

Instrument :
MSVOA_L
ClientSampleId :
ICVVL120320

Tot Ion	Ratio	Lower	Upper
76	100		
44	12.1	9.6	14.4
78	10.0	7.7	11.5

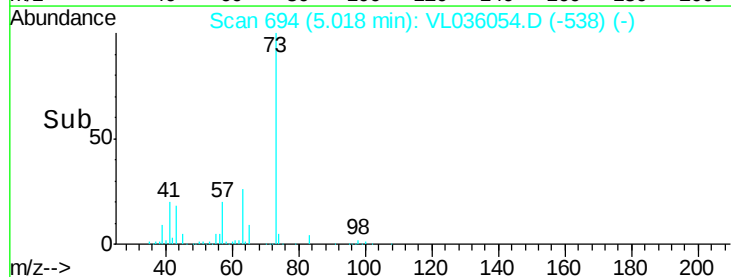
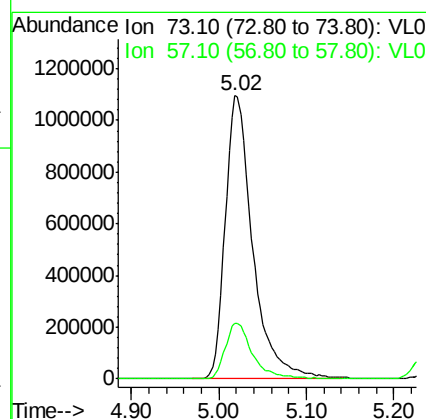
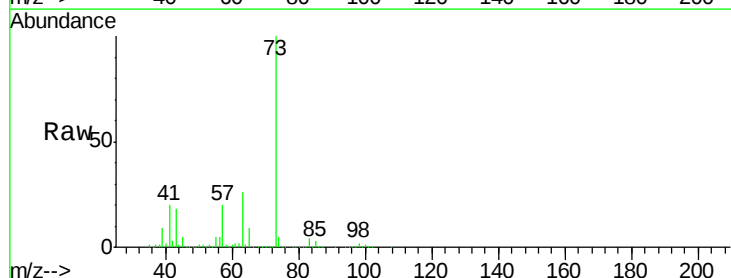
Manual Integrations
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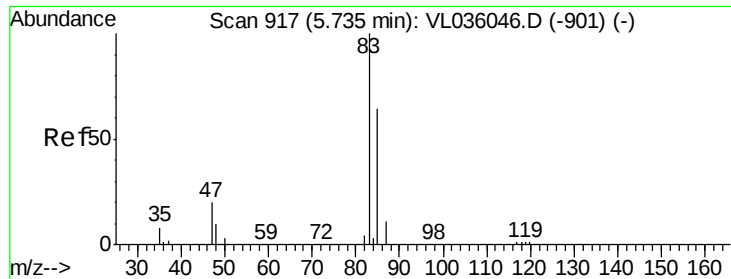
MMDadoda
12/7/2020 12:08:33 PM



#28
Methyl tert-Butyl Ether
Concen: 11.350 ppbv
RT: 5.02 min Scan# 694
Delta R.T. 0.00 min
Lab File: VL036054.D
Acq: 3 Dec 2020 16:13

Tgt Ion	Ratio	Lower	Upper
73	100		
57	19.8	15.8	23.8





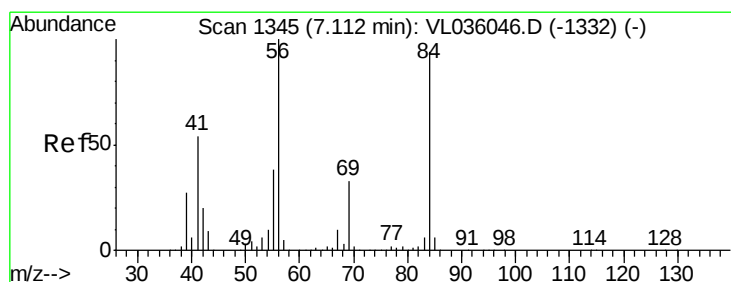
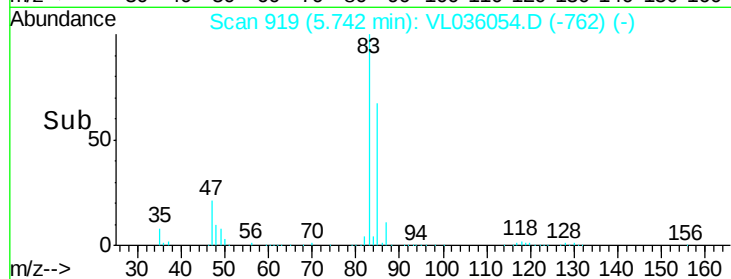
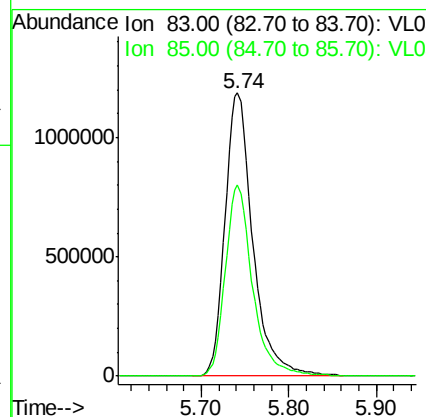
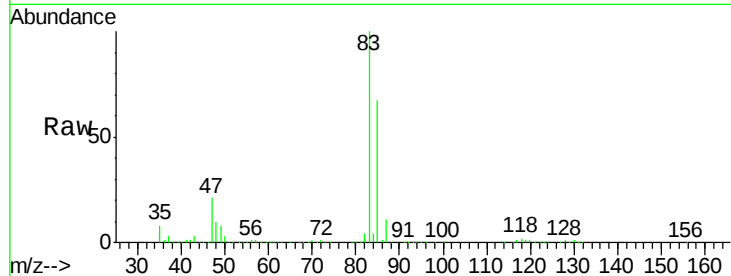
#29
Chloroform
Concen: 9.926 ppbv
RT: 5.74 min Scan# 919
Delta R.T. 0.01 min
Lab File: VL036054.D
Acq: 3 Dec 2020 16:13

Instrument :
MSVOA_L
ClientSampleId :
ICVVL120320

Tot Ion: 83 Resp: 2621484
Ion Ratio Lower Upper
83 100
85 67.2 51.6 77.4

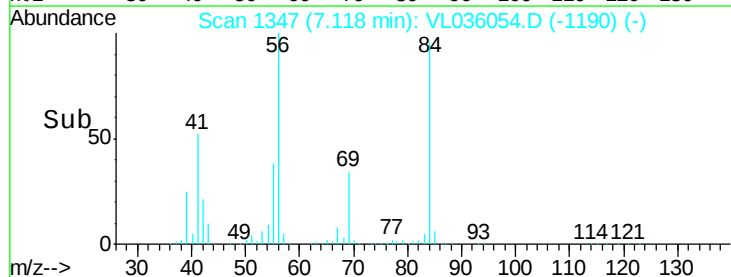
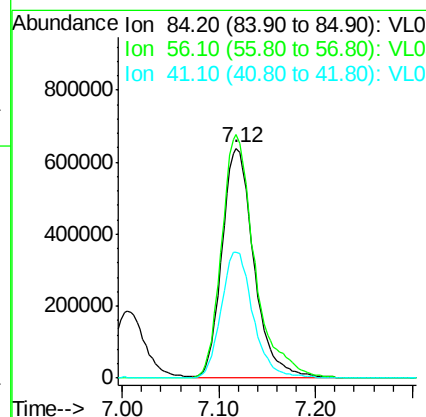
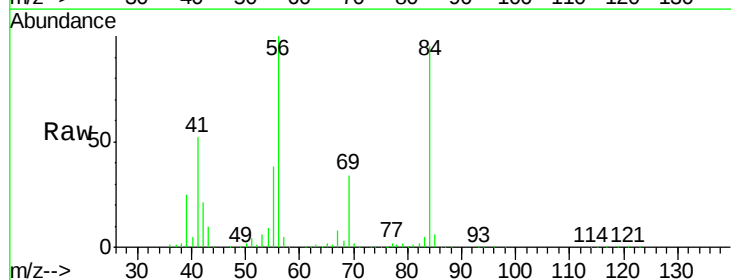
Manual Integrations
APPROVED

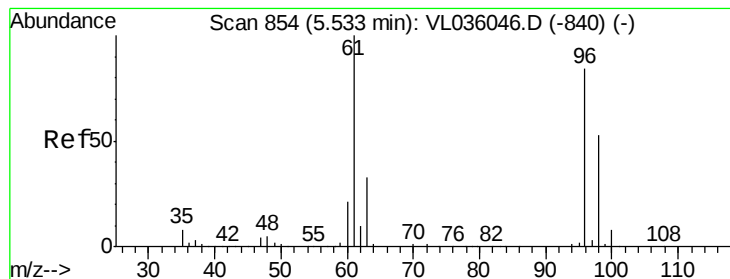
MMDadoda
12/7/2020 12:08:33 PM



#30
Cyclohexane
Concen: 11.479 ppbv
RT: 7.12 min Scan# 1347
Delta R.T. 0.01 min
Lab File: VL036054.D
Acq: 3 Dec 2020 16:13

Tgt Ion: 84 Resp: 1461765
Ion Ratio Lower Upper
84 100
56 111.0 89.9 134.9
41 55.3 46.1 69.1





#31

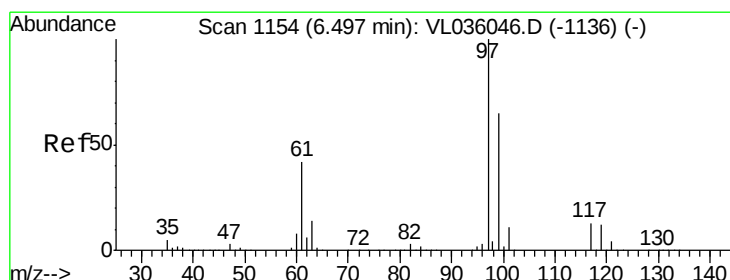
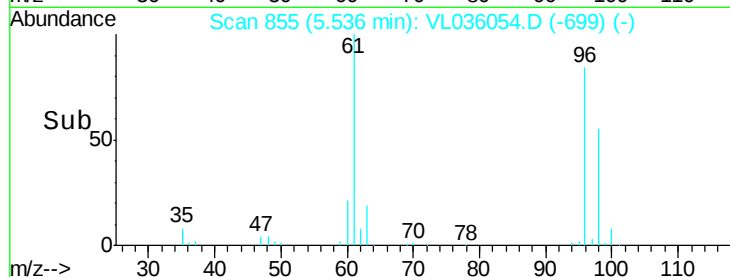
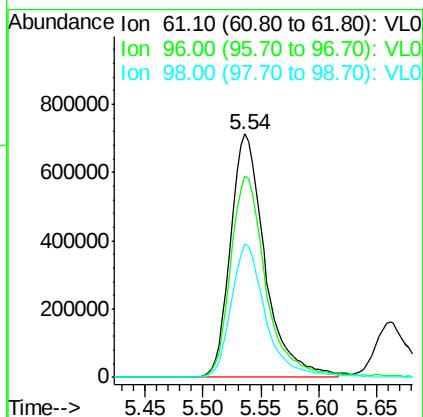
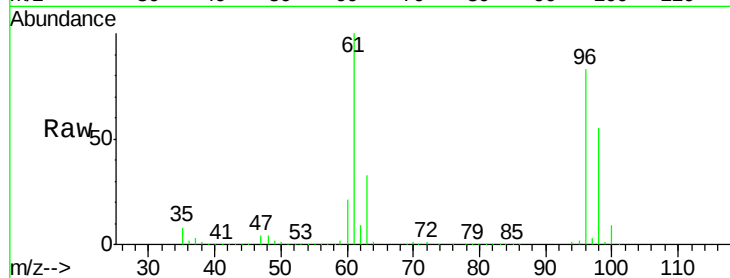
cis-1,2-Dichloroethene
Concen: 11.320 ppbv
RT: 5.54 min Scan# 855
Delta R.T. 0.00 min
Lab File: VL036054.D
Acq: 3 Dec 2020 16:13

Instrument :
MSVOA_L
ClientSampleId :
ICVVL120320

Tot Ion: 61 Resp: 1465287
Ion Ratio Lower Upper
61 100
96 82.7 66.8 100.2
98 55.0 42.6 63.8

Manual Integrations
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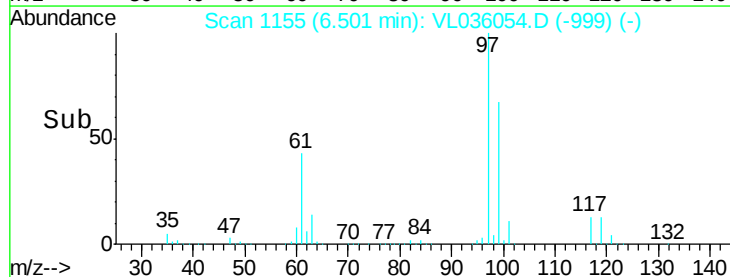
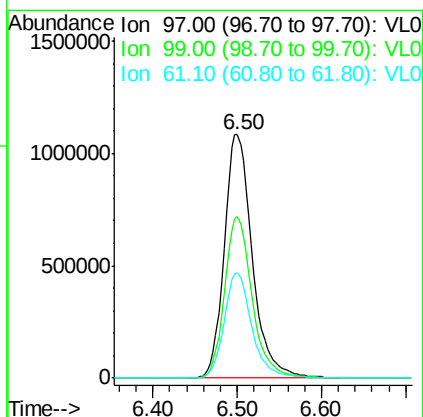
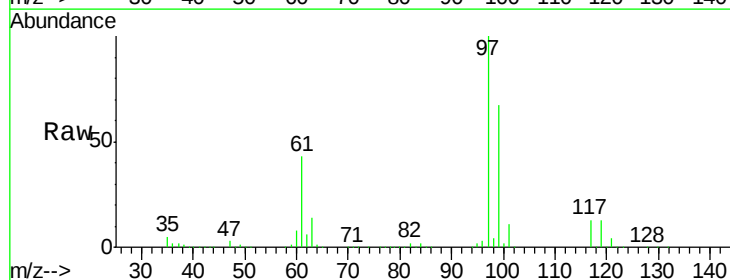
MMDadoda
12/7/2020 12:08:33 PM

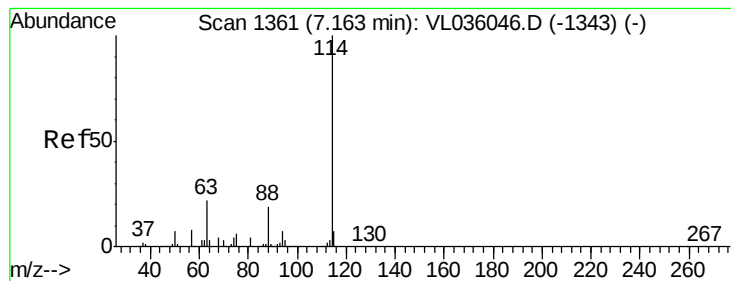


#32

1,1,1-Trichloroethane
Concen: 10.370 ppbv
RT: 6.50 min Scan# 1155
Delta R.T. 0.00 min
Lab File: VL036054.D
Acq: 3 Dec 2020 16:13

Tgt Ion: 97 Resp: 2507550
Ion Ratio Lower Upper
97 100
99 65.2 52.4 78.6
61 42.6 34.7 52.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VL036054.D

Acq: 3 Dec 2020 16:13

Instrument :

MSVOA_L

ClientSampleId :

ICVVL120320

Tot Ion:114 Resp: 4581651

Ion Ratio Lower Upper

114 100

63 21.0 17.2 25.8

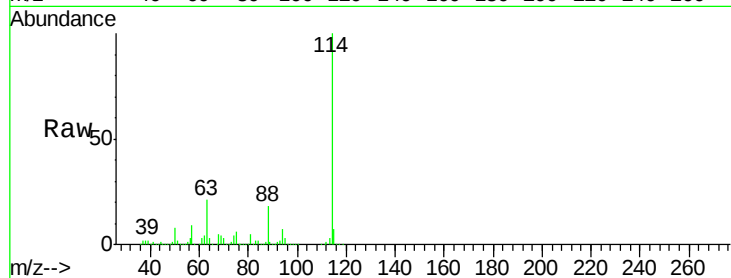
88 17.4 14.0 21.0

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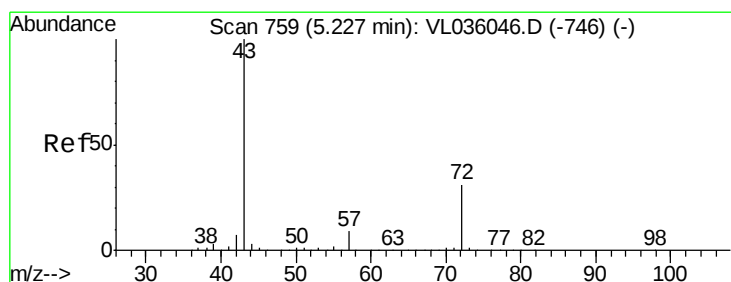
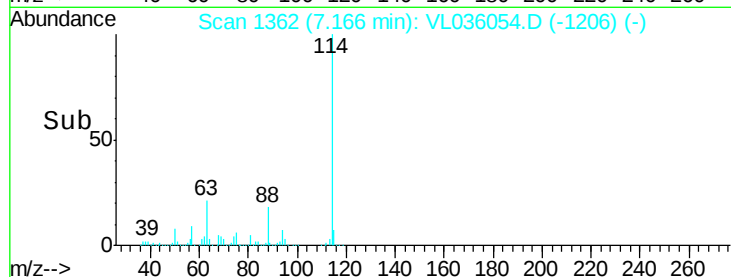
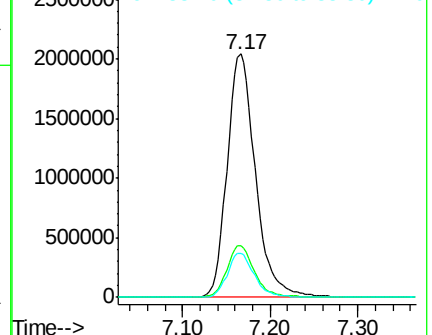
12/7/2020 12:08:33 PM



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 10.658 ppbv

RT: 5.23 min Scan# 760

Delta R.T. 0.00 min

Lab File: VL036054.D

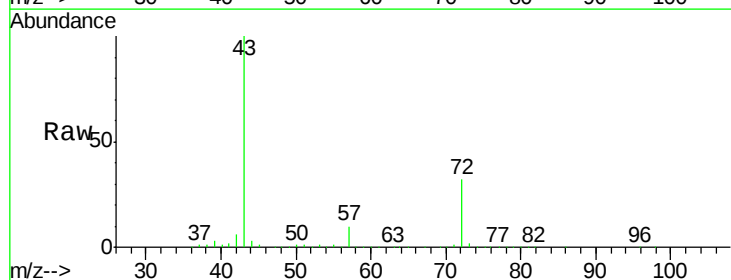
Acq: 3 Dec 2020 16:13

Tgt Ion: 43 Resp: 1647908

Ion Ratio Lower Upper

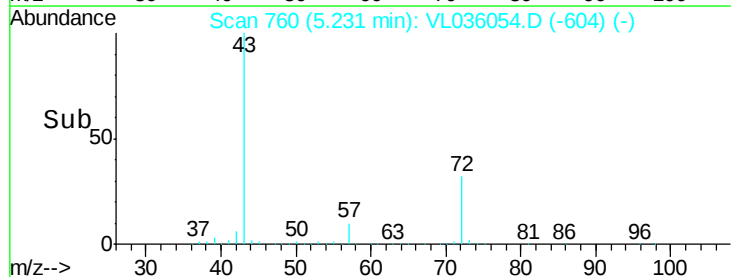
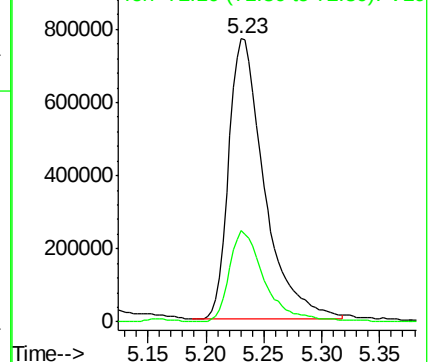
43 100

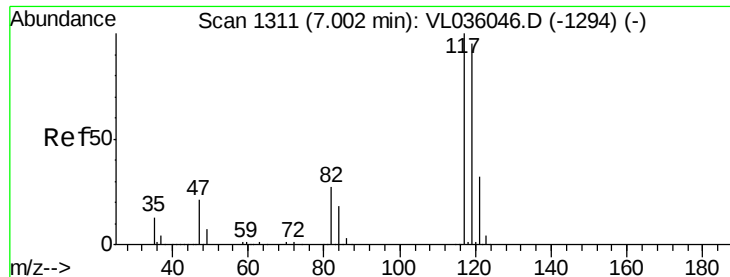
72 32.5 24.5 36.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 10.194 ppbv

RT: 7.01 min Scan# 1313

Delta R.T. 0.01 min

Lab File: VL036054.D

Acq: 3 Dec 2020 16:13

Instrument :

MSVOA_L

ClientSampleId :

ICVVL120320

Tot Ion:117 Resp: 2427485

Ion Ratio Lower Upper

117 100

119 96.3 75.9 113.9

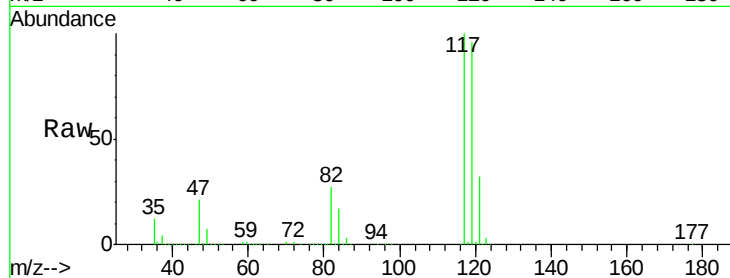
121 31.9 25.8 38.8

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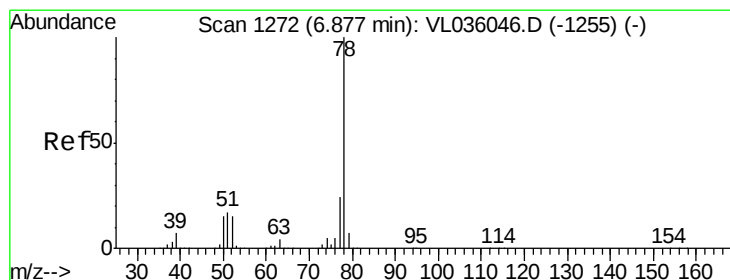
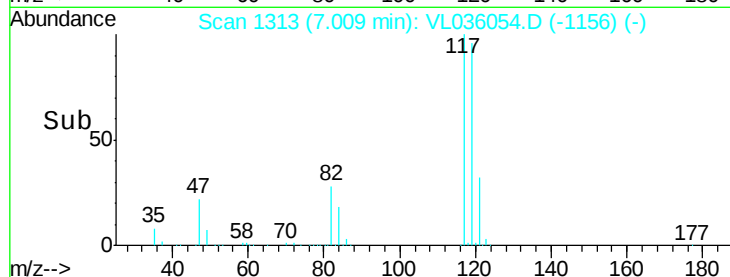
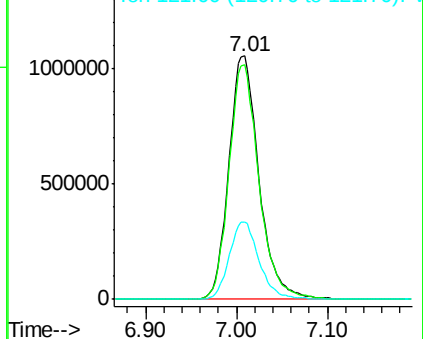
12/7/2020 12:08:33 PM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.882 ppbv

RT: 6.88 min Scan# 1273

Delta R.T. 0.00 min

Lab File: VL036054.D

Acq: 3 Dec 2020 16:13

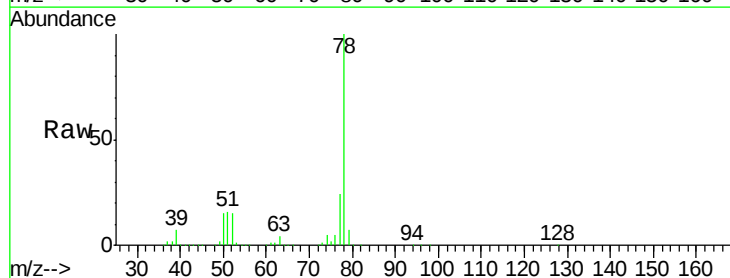
Tgt Ion: 78 Resp: 3460771

Ion Ratio Lower Upper

78 100

77 23.7 19.1 28.7

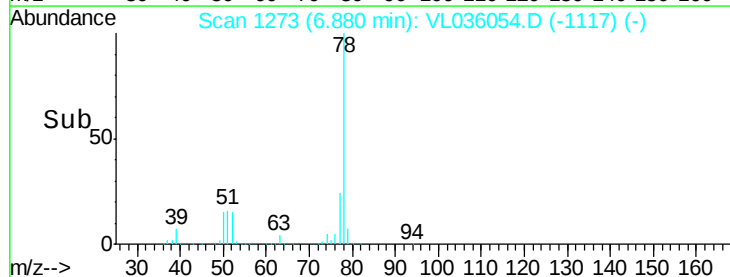
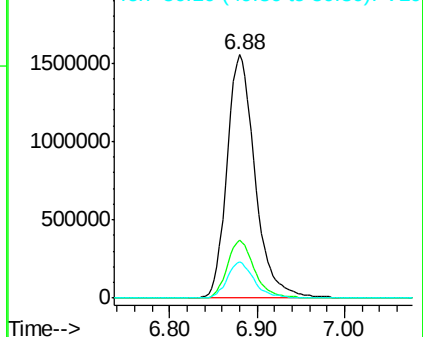
50 14.9 12.0 18.0

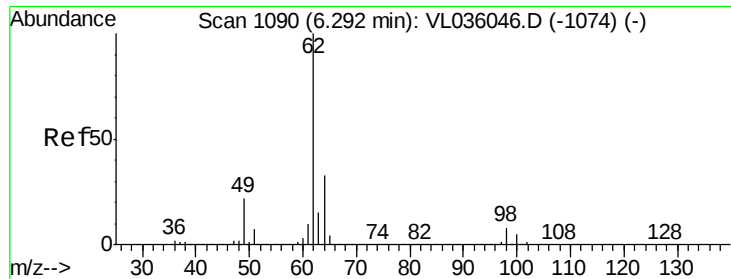


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





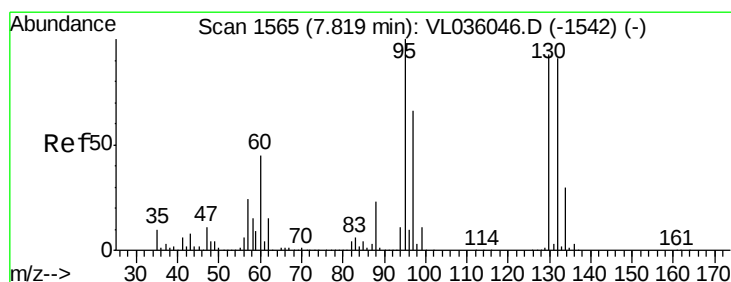
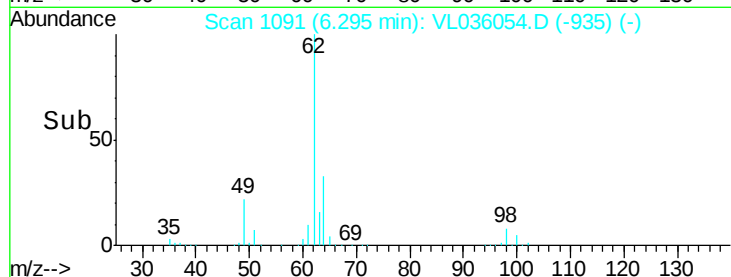
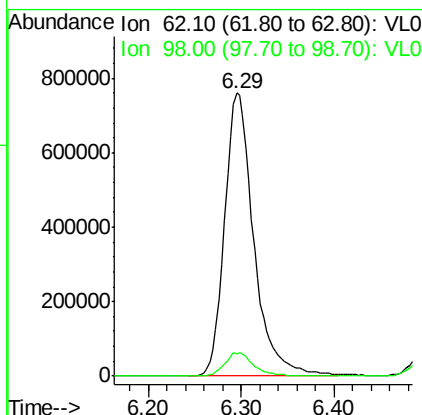
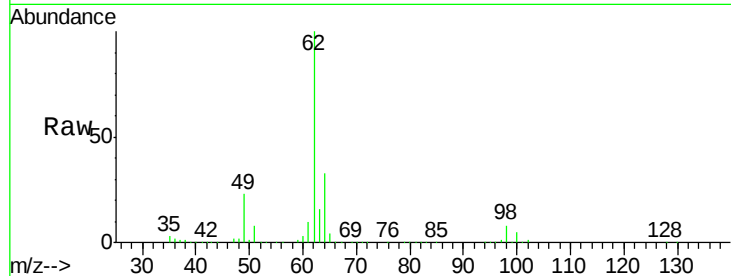
#37
1,2-Dichloroethane
Concen: 10.174 ppbv
RT: 6.29 min Scan# 1091
Delta R.T. 0.00 min
Lab File: VL036054.D
Acq: 3 Dec 2020 16:13

Instrument :
MSVOA_L
ClientSampleId :
ICVVL120320

Tot Ion: 62 Resp: 1660380
Ion Ratio Lower Upper
62 100
98 8.4 6.4 9.6

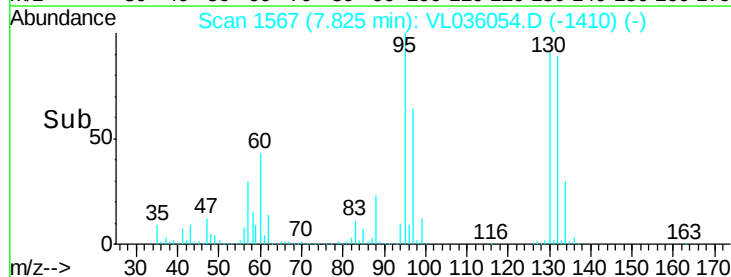
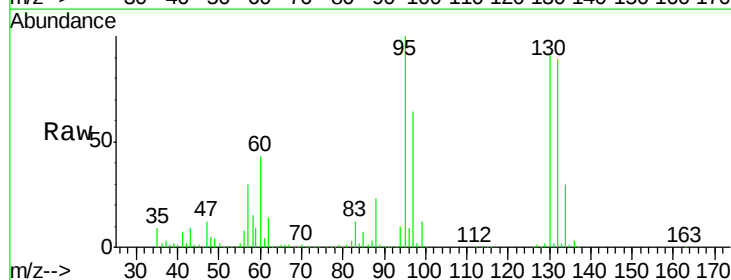
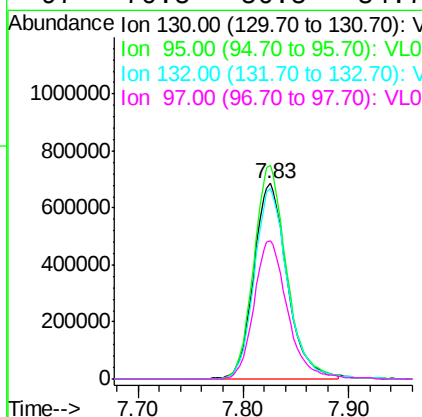
Manual Integrations
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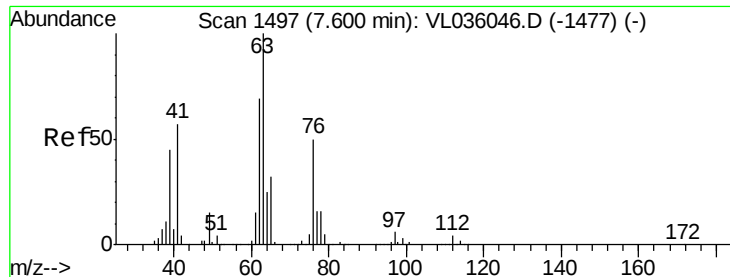
MMDadoda
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#38
Trichloroethene
Concen: 10.736 ppbv
RT: 7.83 min Scan# 1567
Delta R.T. 0.01 min
Lab File: VL036054.D
Acq: 3 Dec 2020 16:13

Tgt Ion:130 Resp: 1512975
Ion Ratio Lower Upper
130 100
95 109.3 86.1 129.1
132 97.4 78.6 118.0
97 70.5 56.5 84.7





#39

1,2-Dichloropropane

Concen: 10.166 ppbv

RT: 7.60 min Scan# 1498

Delta R.T. 0.00 min

Lab File: VL036054.D

Acq: 3 Dec 2020 16:13

Instrument :

MSVOA_L

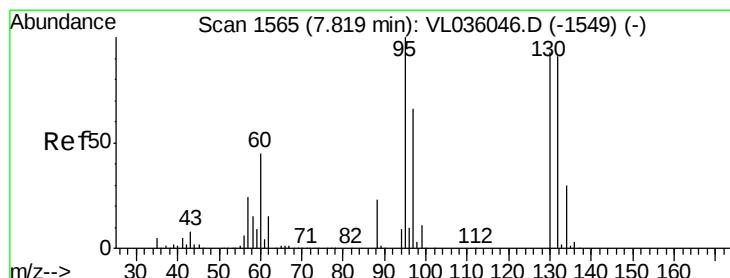
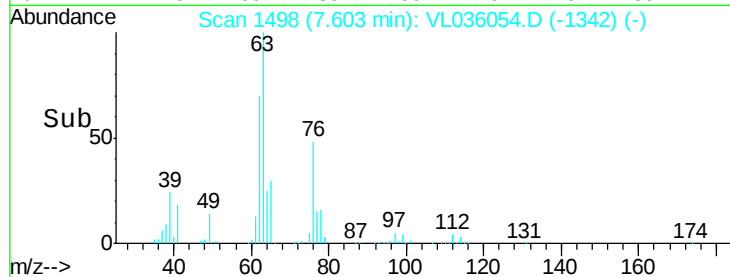
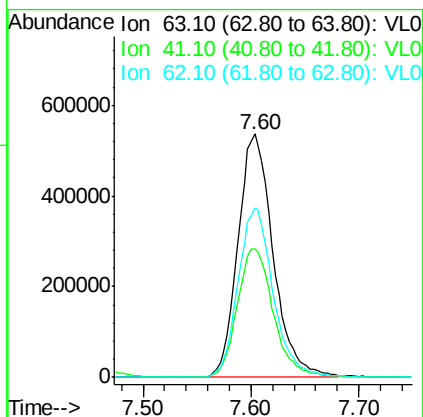
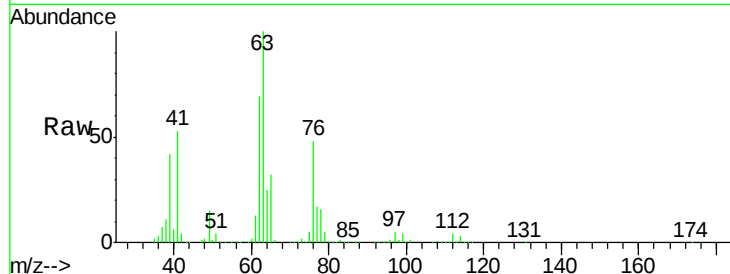
ClientSampleId :

ICVVL120320

Tot Ion:	63	Resp:	1213711
Ion	Ratio	Lower	Upper
63	100		
41	52.7	45.4	68.0
62	69.5	55.3	82.9

Manual Integrations
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#40

1,4-Dioxane

Concen: 12.096 ppbv

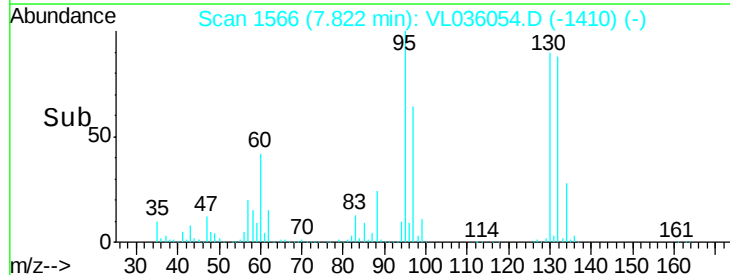
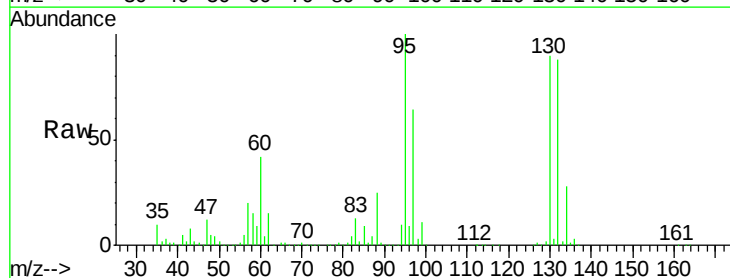
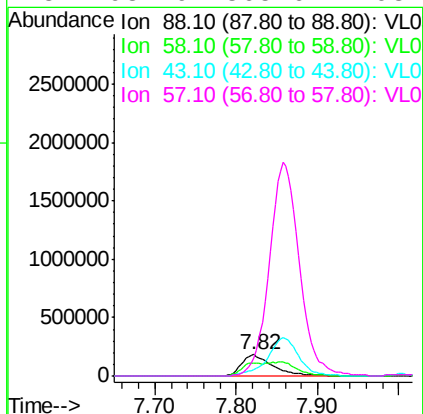
RT: 7.82 min Scan# 1566

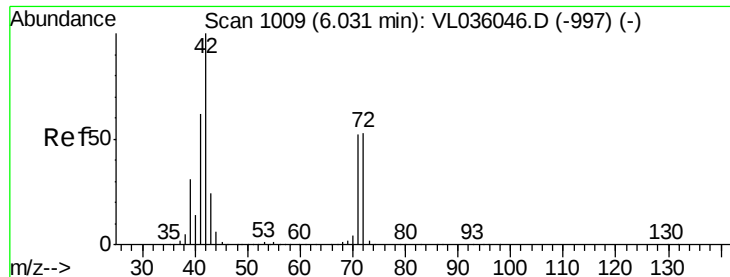
Delta R.T. 0.00 min

Lab File: VL036054.D

Acq: 3 Dec 2020 16:13

Tgt Ion:	88	Resp:	482073
Ion	Ratio	Lower	Upper
88	100		
58	107.2	91.0	136.6
43	183.5	163.3	244.9
57	984.9	865.6	1298.4





#41

Tetrahydrofuran

Concen: 11.846 ppbv

RT: 6.03 min Scan# 1010

Delta R.T. 0.00 min

Lab File: VL036054.D

Acq: 3 Dec 2020 16:13

Instrument :

MSVOA_L

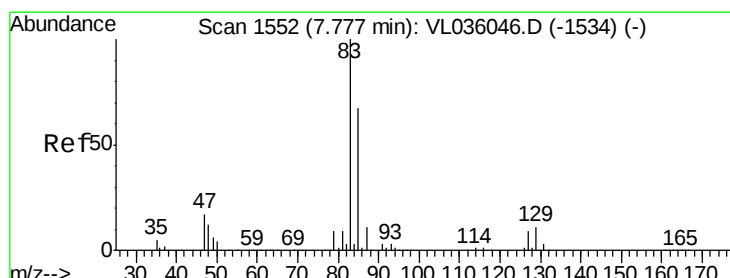
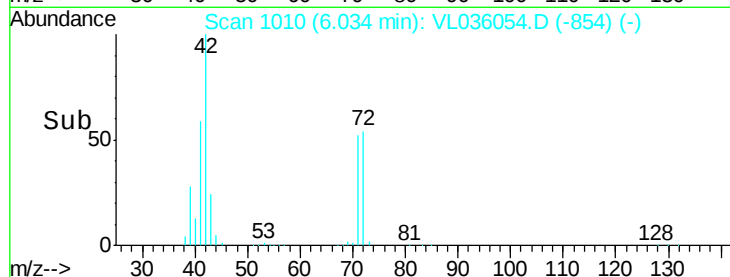
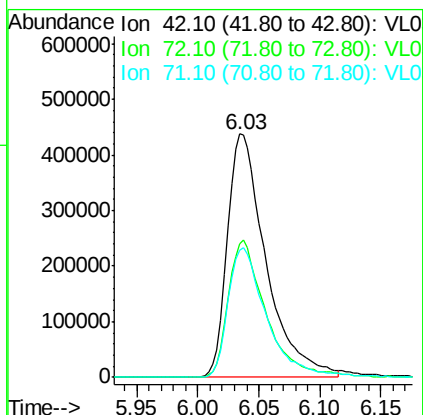
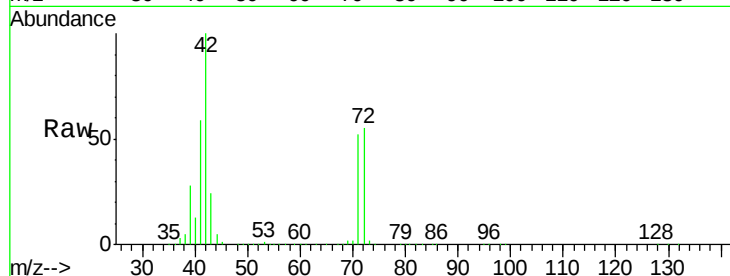
ClientSampleId :

ICVVL120320

Tot Ion:	42	Resp:	968179
Ion	Ratio	Lower	Upper
42	100		
72	55.6	42.7	64.1
71	53.6	41.0	61.4

Manual Integrations
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#42

Bromodichloromethane

Concen: 10.853 ppbv

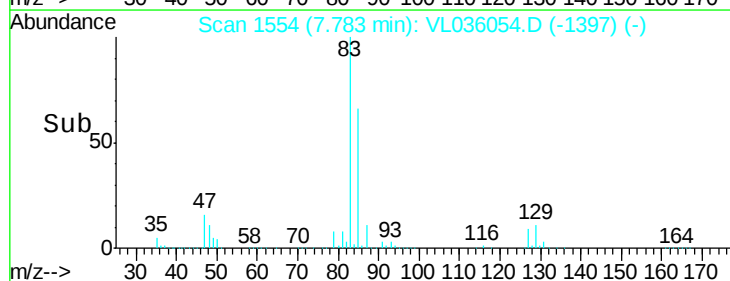
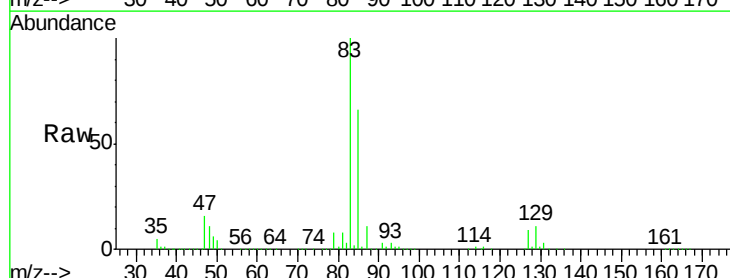
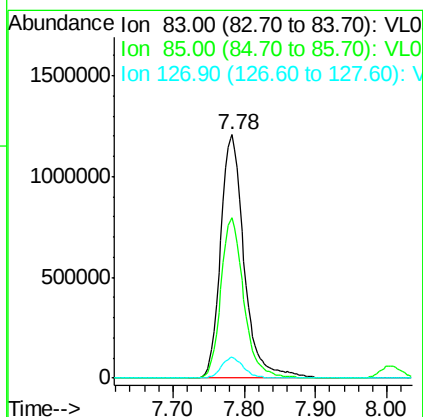
RT: 7.78 min Scan# 1554

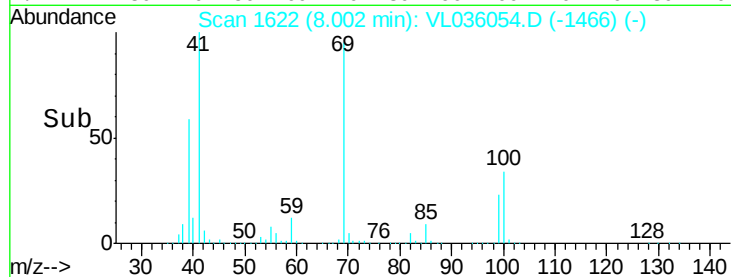
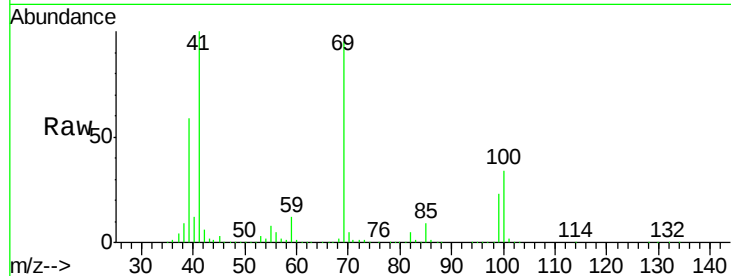
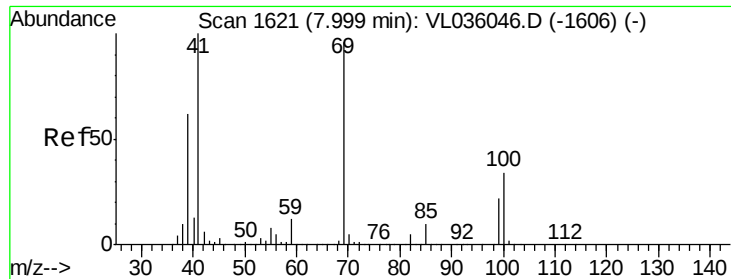
Delta R.T. 0.01 min

Lab File: VL036054.D

Acq: 3 Dec 2020 16:13

Tgt Ion:	83	Resp:	2771638
Ion	Ratio	Lower	Upper
83	100		
85	65.8	53.7	80.5
127	8.5	7.0	10.6





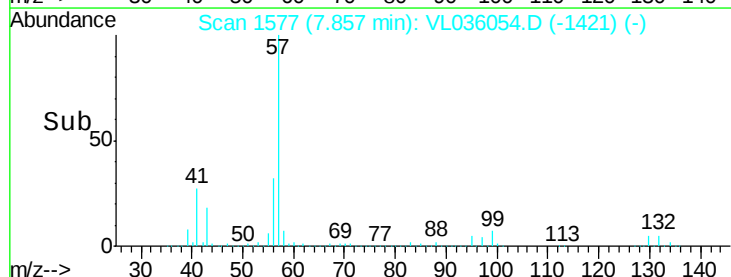
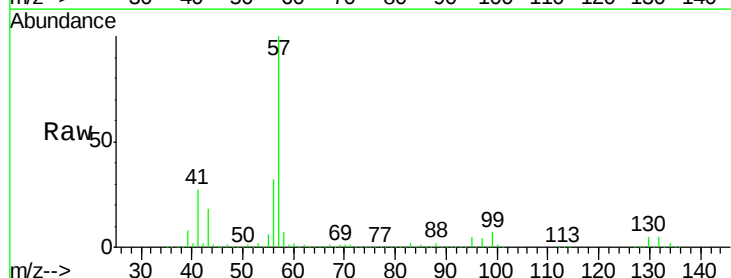
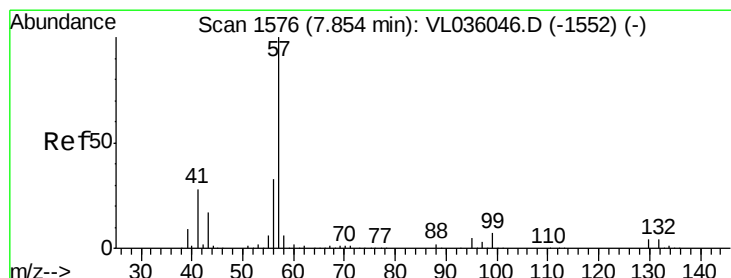
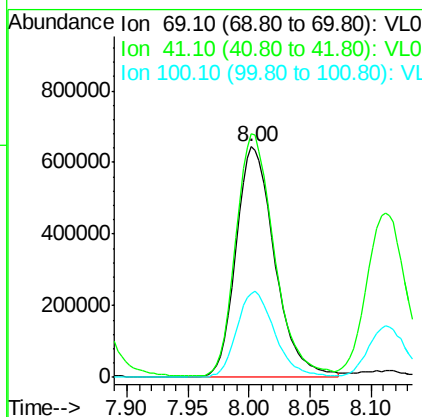
#43
Methyl Methacrylate
Concen: 12.121 ppbv
RT: 8.00 min Scan# 1622
Delta R.T. 0.00 min
Lab File: VL036054.D
Acq: 3 Dec 2020 16:13

Tot Ion: 69 Resp: 1413330
Ion Ratio Lower Upper
69 100
41 105.6 86.5 129.7
100 36.6 29.0 43.6

Instrument :
MSVOA_L
ClientSampleId :
ICVVL120320

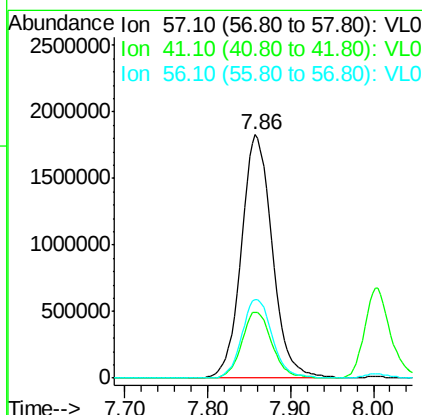
Manual Integrations
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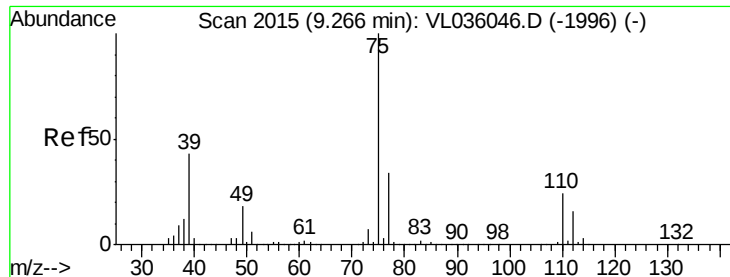
MMDadoda
12/7/2020 12:08:33 PM



#44
2,2,4-Trimethylpentane
Concen: 10.140 ppbv
RT: 7.86 min Scan# 1577
Delta R.T. 0.00 min
Lab File: VL036054.D
Acq: 3 Dec 2020 16:13

Tgt Ion: 57 Resp: 4743851
Ion Ratio Lower Upper
57 100
41 26.5 21.9 32.9
56 31.9 25.8 38.6





#45

t-1,3-Dichloropropene

Concen: 13.560 ppbv

RT: 9.27 min Scan# 2016

Delta R.T. 0.00 min

Lab File: VL036054.D

Acq: 3 Dec 2020 16:13

Tot Ion: 75 Resp: 1478491

Ion Ratio Lower Upper

75 100

77 32.9 26.8 40.2

Instrument :

MSVOA_L

ClientSampleId :

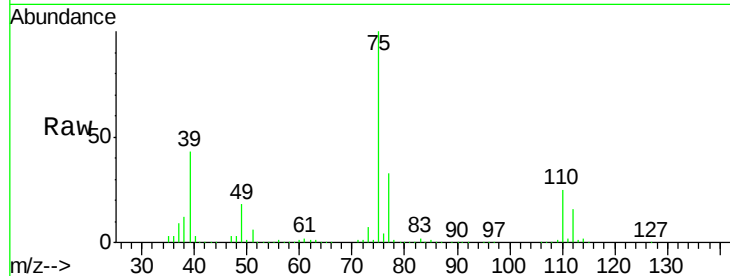
ICVVL120320

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

800000

600000

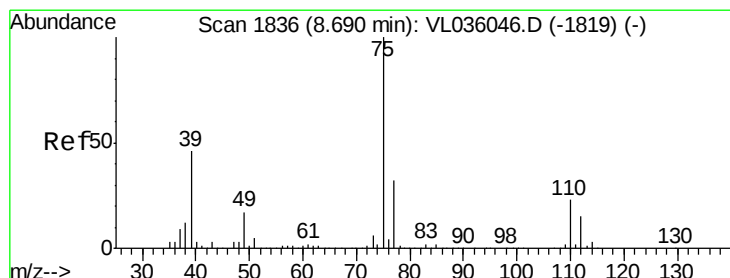
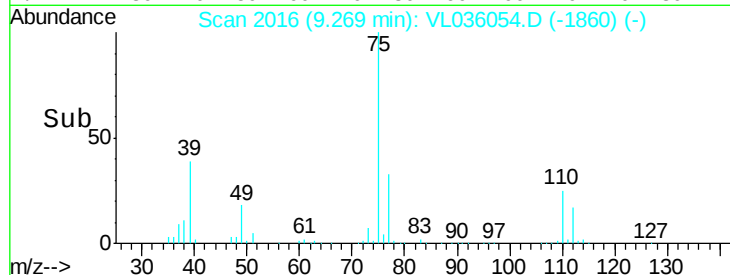
400000

200000

0

9.20 9.30 9.40

Time-->



#46

cis-1,3-Dichloropropene

Concen: 12.870 ppbv

RT: 8.69 min Scan# 1837

Delta R.T. 0.00 min

Lab File: VL036054.D

Acq: 3 Dec 2020 16:13

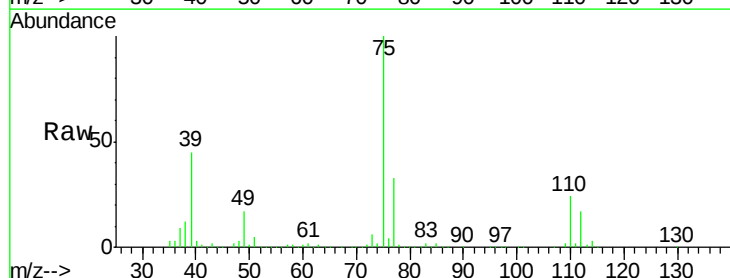
Tgt Ion: 75 Resp: 1850623

Ion Ratio Lower Upper

75 100

39 45.2 37.0 55.4

77 32.7 25.5 38.3



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

1000000

800000

600000

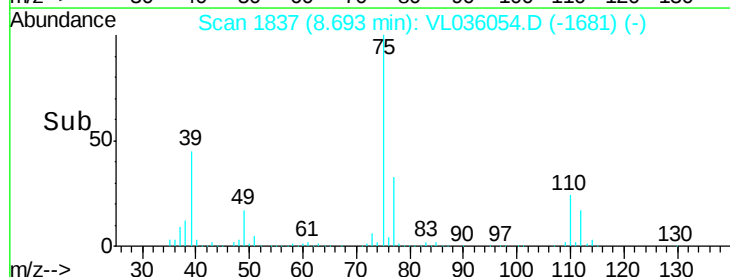
400000

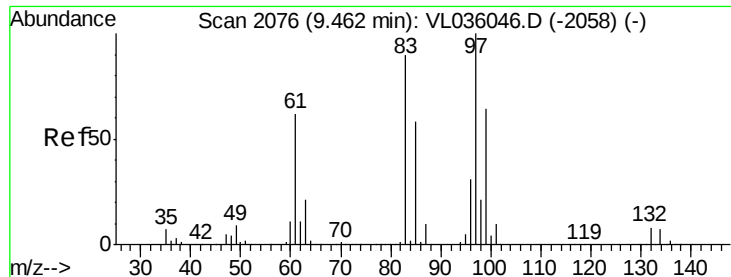
200000

0

8.60 8.65 8.70 8.75 8.80

Time-->





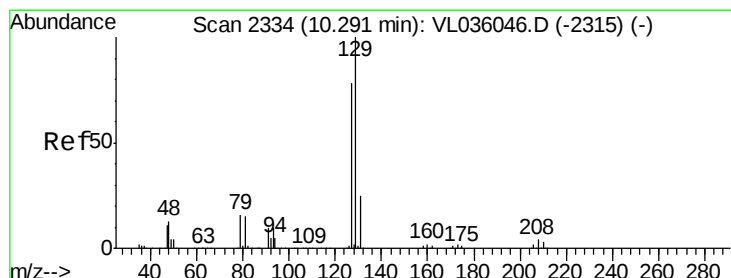
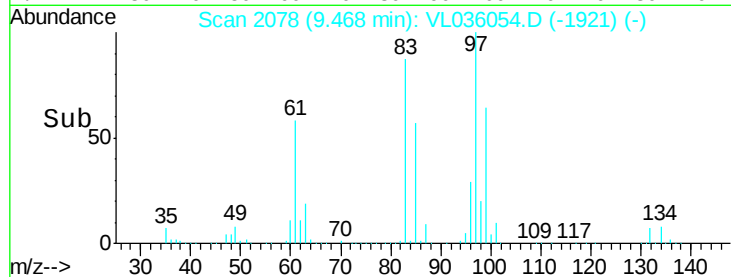
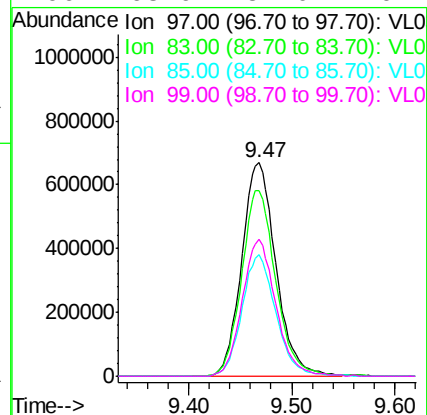
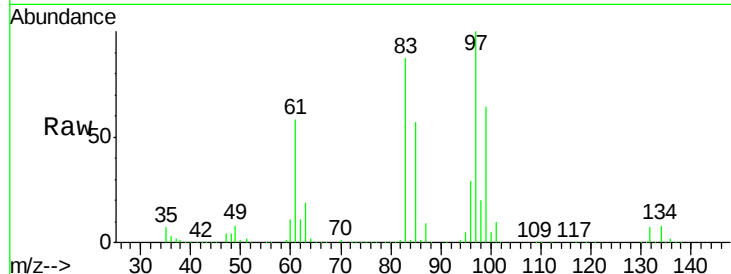
#47
 1,1,2-Trichloroethane
 Concen: 10.177 ppbv
 RT: 9.47 min Scan# 2078
 Delta R.T. 0.01 min
 Lab File: VL036054.D
 Acq: 3 Dec 2020 16:13

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL120320

Tot Ion	Ratio	Lower	Upper
97	100		
83	86.9	72.1	108.1
85	57.2	46.6	69.8
99	63.9	51.0	76.4

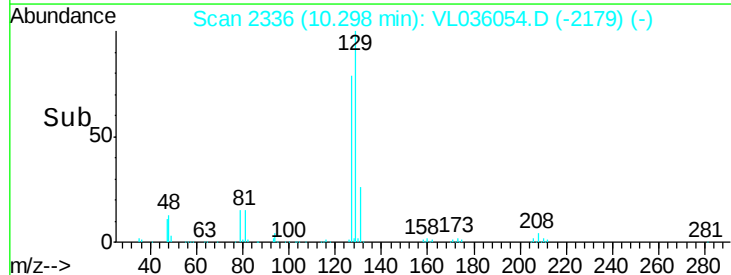
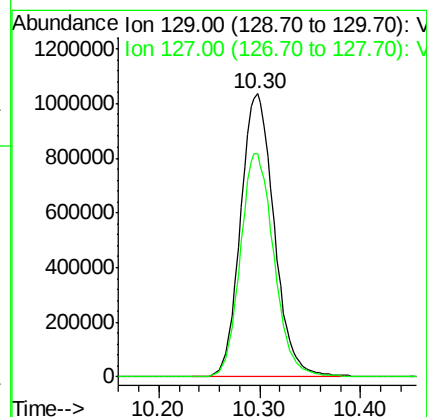
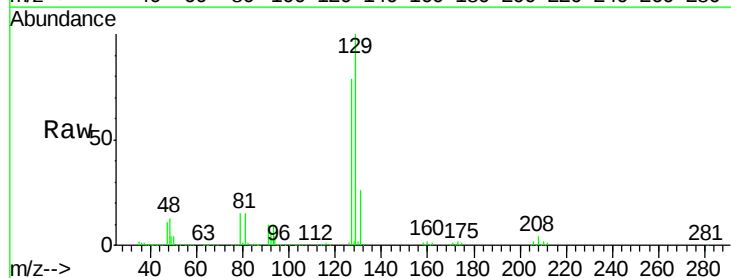
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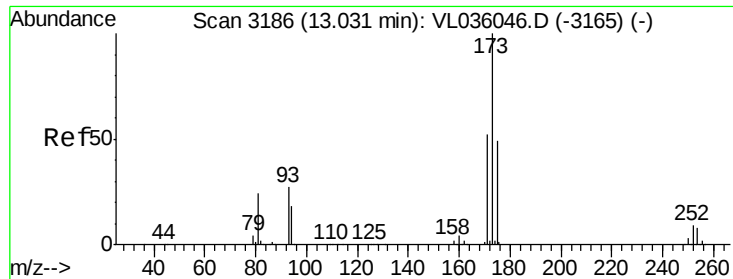
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#48
 Dibromochloromethane
 Concen: 11.354 ppbv
 RT: 10.30 min Scan# 2336
 Delta R.T. 0.01 min
 Lab File: VL036054.D
 Acq: 3 Dec 2020 16:13

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.3	39.4	118.2





#49

Bromoform

Concen: 12.169 ppbv

RT: 13.03 min Scan# 3187

Delta R.T. 0.00 min

Lab File: VL036054.D

Acq: 3 Dec 2020 16:13

Instrument :

MSVOA_L

ClientSampleId :

ICVVL120320

Tot Ion:173 Resp: 1894817

Ion Ratio Lower Upper

173 100

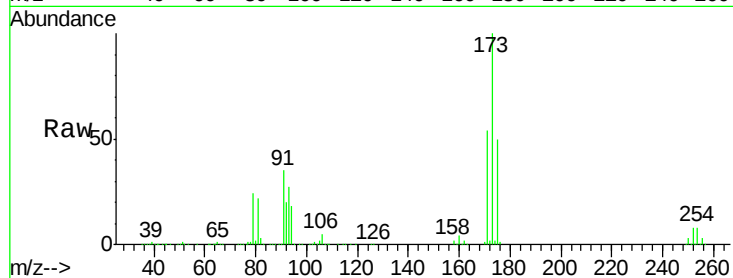
175 48.9 39.5 59.3

171 52.7 42.6 63.8

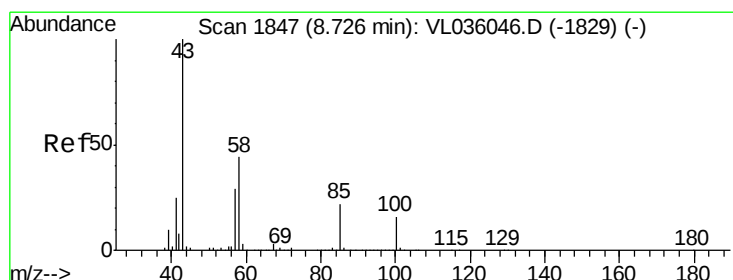
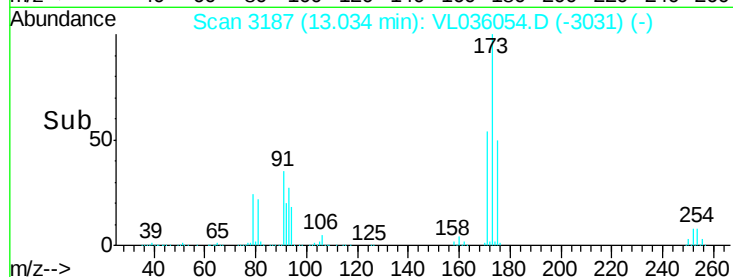
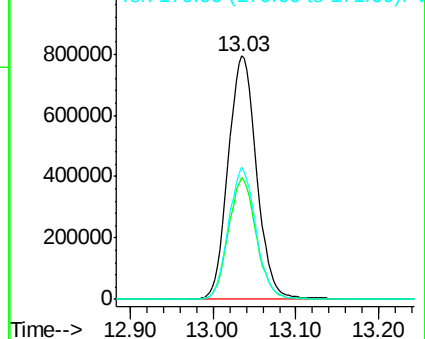
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Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.618 ppbv

RT: 8.73 min Scan# 1849

Delta R.T. 0.01 min

Lab File: VL036054.D

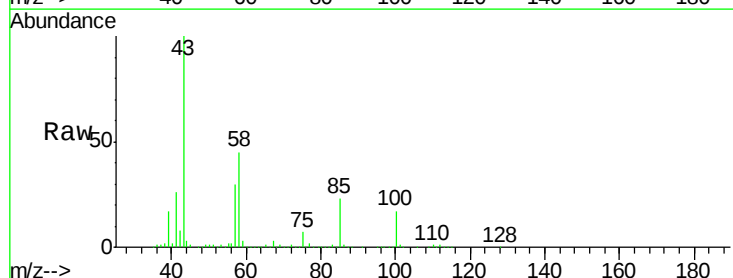
Acq: 3 Dec 2020 16:13

Tgt Ion: 43 Resp: 2568030

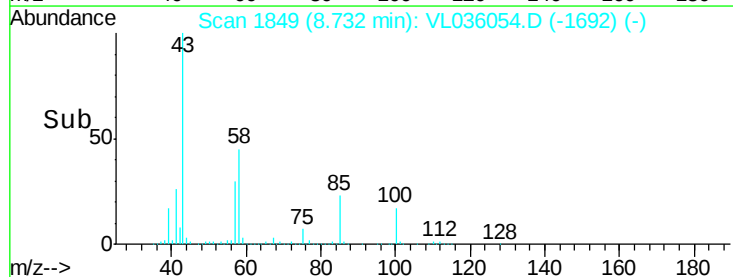
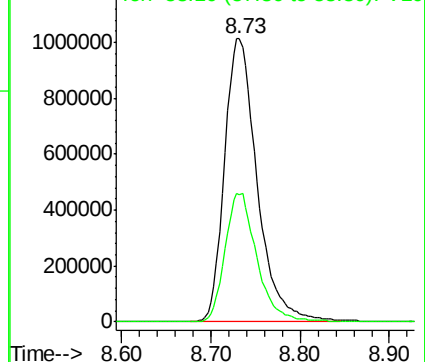
Ion Ratio Lower Upper

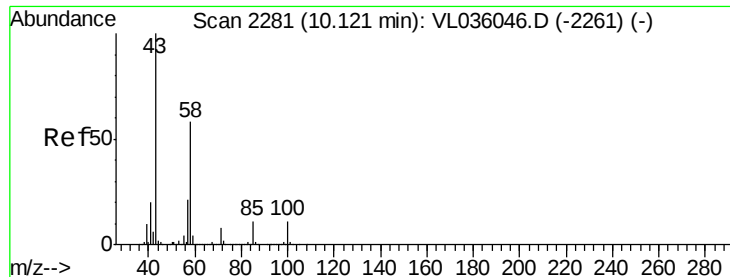
43 100

58 44.6 34.7 52.1



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





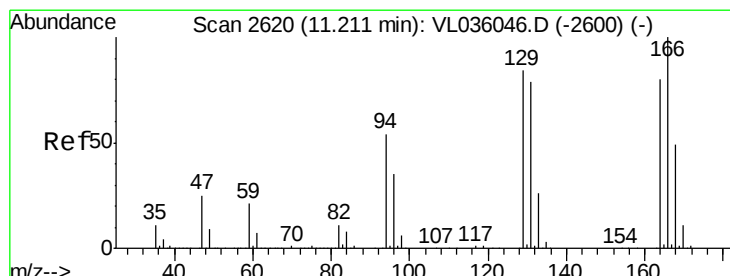
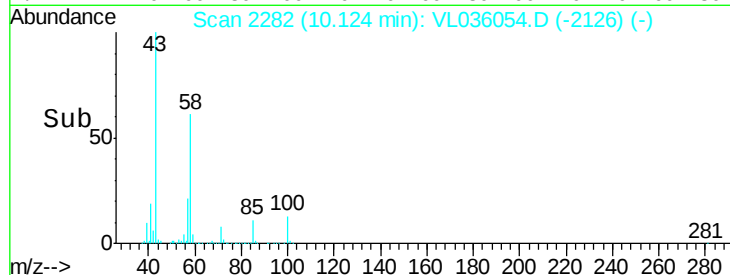
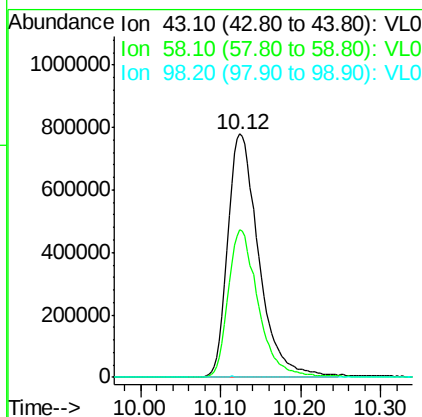
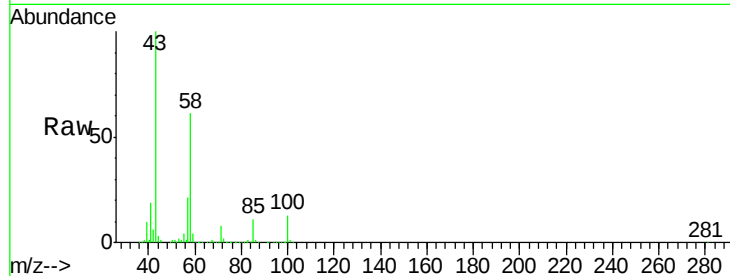
#51
2-Hexanone
Concen: 11.820 ppbv
RT: 10.12 min Scan# 2282
Delta R.T. 0.00 min
Lab File: VL036054.D
Acq: 3 Dec 2020 16:13

Instrument :
MSVOA_L
ClientSampleId :
ICVVL120320

Tot Ion: 43 Resp: 2058602
Ion Ratio Lower Upper
43 100
58 59.1 45.7 68.5
98 0.6 0.8 1.2#

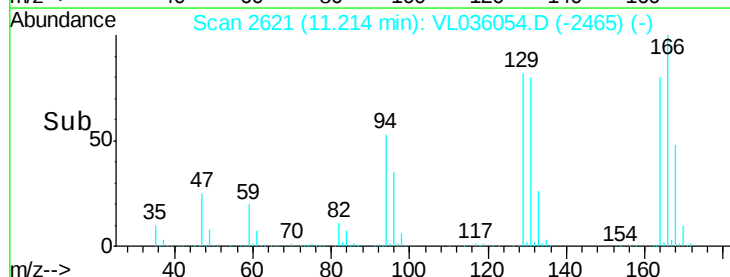
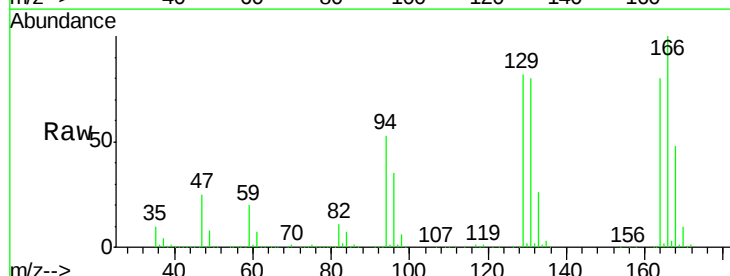
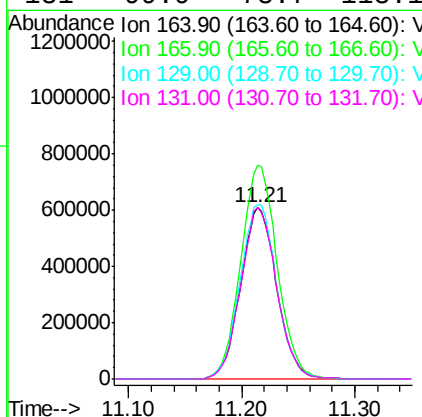
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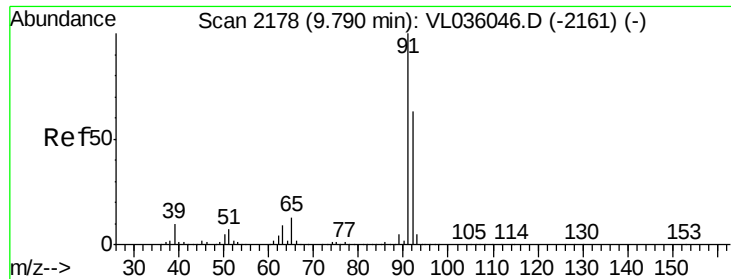
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#52
Tetrachloroethene
Concen: 11.072 ppbv
RT: 11.21 min Scan# 2621
Delta R.T. 0.00 min
Lab File: VL036054.D
Acq: 3 Dec 2020 16:13

Tgt Ion:164 Resp: 1354369
Ion Ratio Lower Upper
164 100
166 124.8 100.2 150.2
129 101.7 83.7 125.5
131 99.9 78.7 118.1





#53

Toluene

Concen: 11.664 ppbv

RT: 9.80 min Scan# 2180

Delta R.T. 0.01 min

Lab File: VL036054.D

Acq: 3 Dec 2020 16:13

Instrument :

MSVOA_L

ClientSampleId :

ICVVL120320

Tot Ion: 91 Resp: 4054315

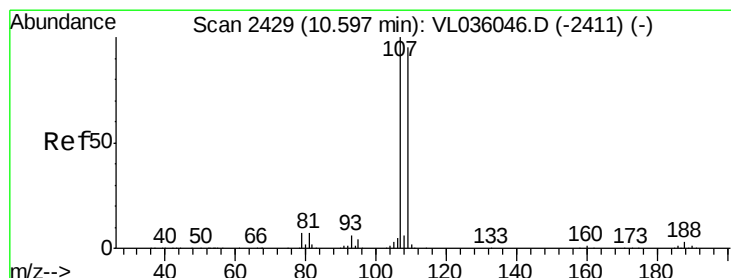
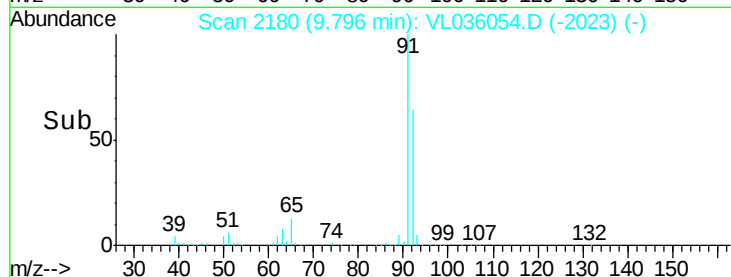
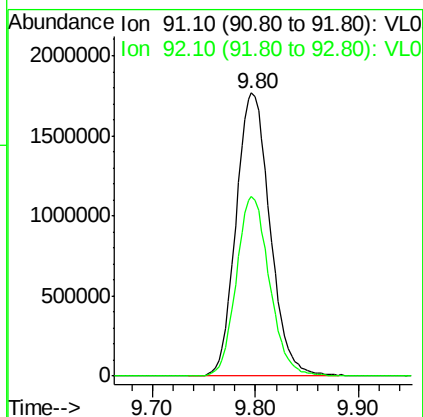
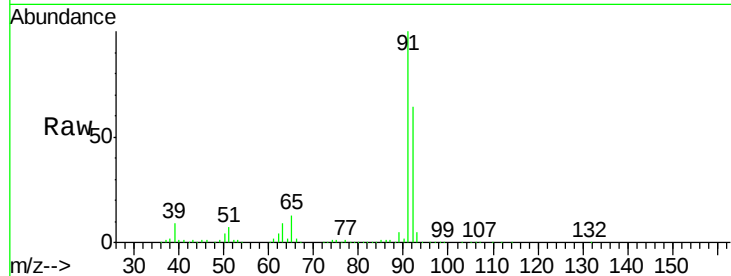
Ion Ratio Lower Upper

91 100

92 62.2 49.3 73.9

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#54

1,2-Dibromoethane

Concen: 10.792 ppbv

RT: 10.60 min Scan# 2431

Delta R.T. 0.01 min

Lab File: VL036054.D

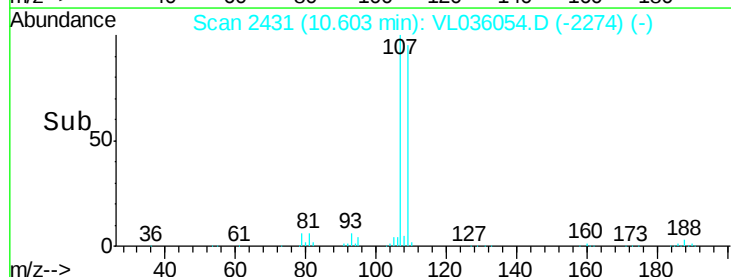
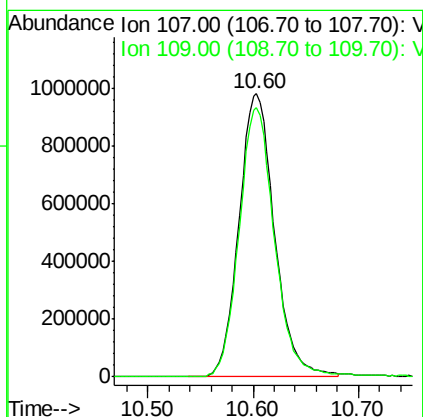
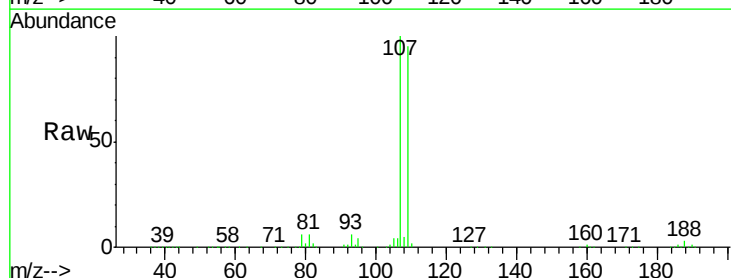
Acq: 3 Dec 2020 16:13

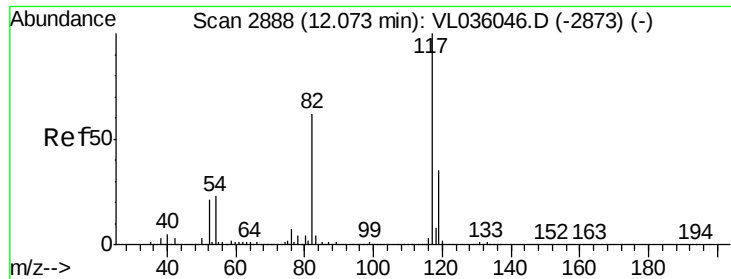
Tgt Ion: 107 Resp: 2299273

Ion Ratio Lower Upper

107 100

109 95.2 75.7 113.5





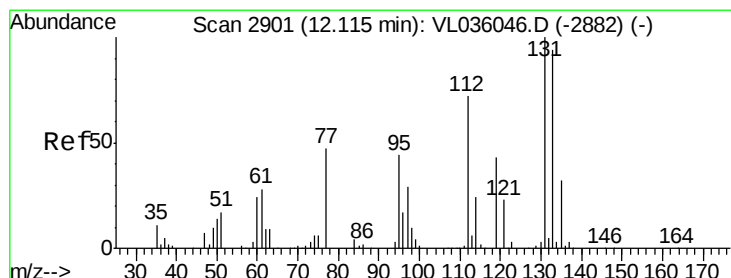
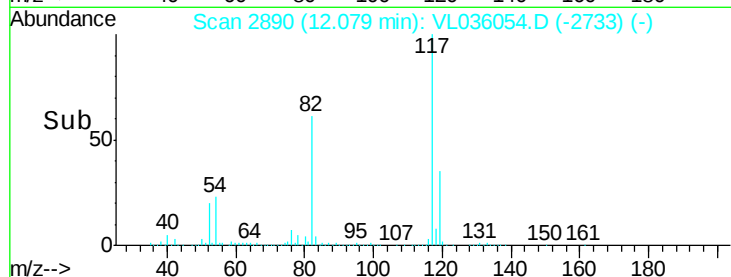
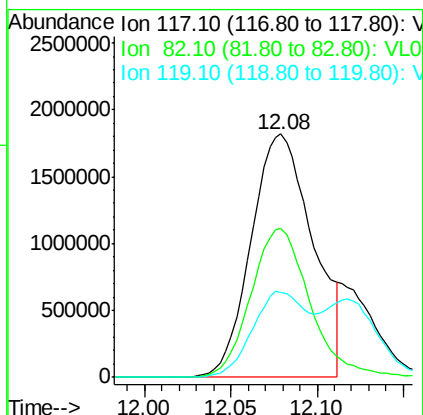
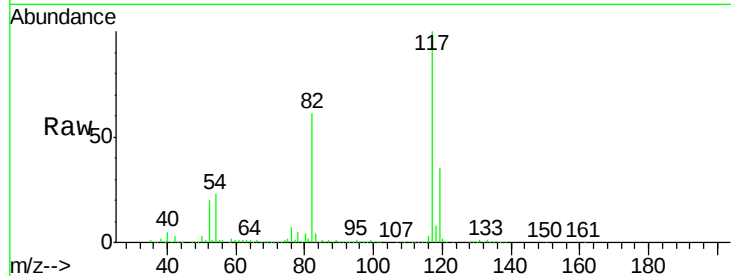
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.08 min Scan# 2890
Delta R.T. 0.01 min
Lab File: VL036054.D
Acq: 3 Dec 2020 16:13

Instrument :
MSVOA_L
ClientSampleId :
ICVVL120320

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.9	49.9	74.9
119	31.3	28.7	43.1

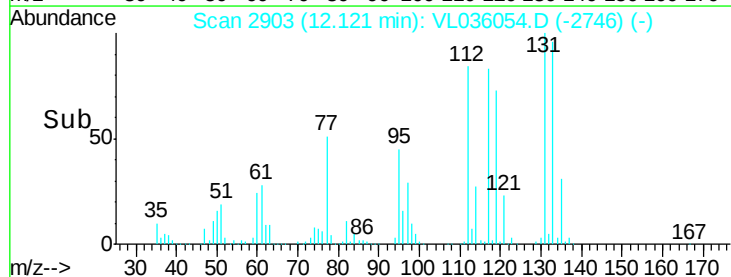
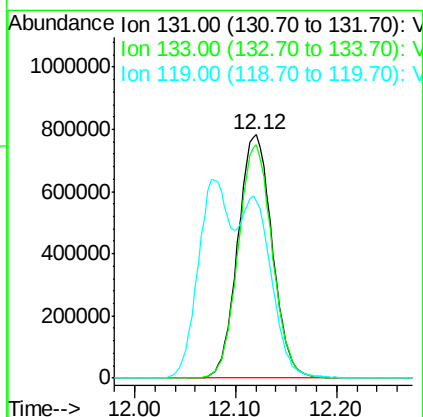
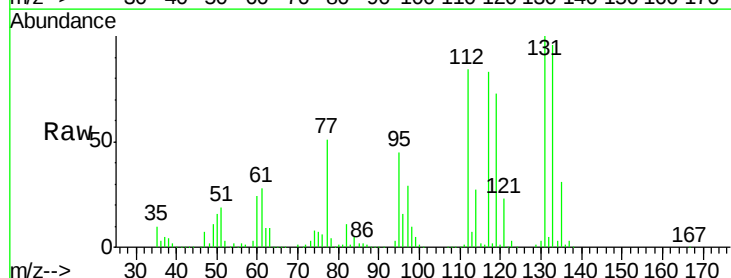
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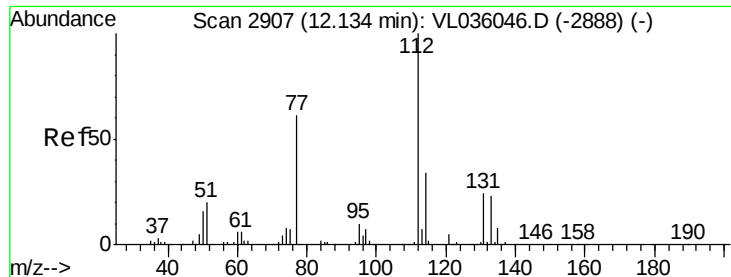
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#56
1,1,1,2-Tetrachloroethane
Concen: 10.003 ppbv
RT: 12.12 min Scan# 2903
Delta R.T. 0.01 min
Lab File: VL036054.D
Acq: 3 Dec 2020 16:13

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.2	76.1	114.1
119	65.3	49.5	74.3





#57

Chlorobenzene

Concen: 9.502 ppbv

RT: 12.14 min Scan# 2909

Delta R.T. 0.01 min

Lab File: VL036054.D

Acq: 3 Dec 2020 16:13

Instrument :

MSVOA_L

ClientSampleId :

ICVVL120320

Tot Ion: 112 Resp: 3165864

Ion Ratio Lower Upper

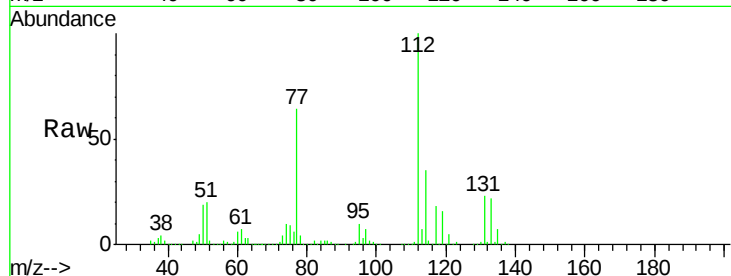
112 100

77 63.3 49.3 73.9

114 34.7 30.2 36.9

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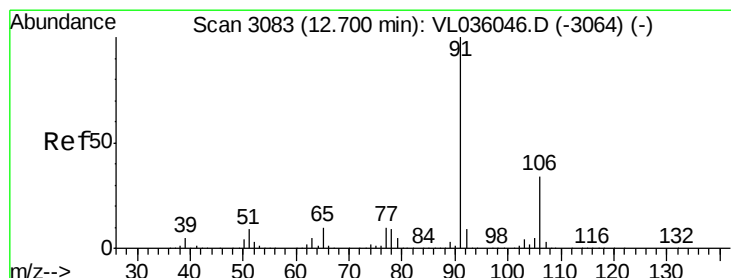
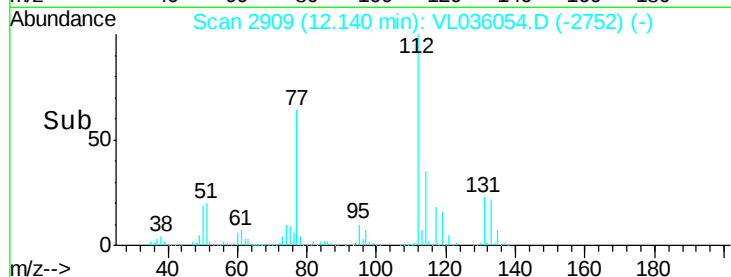
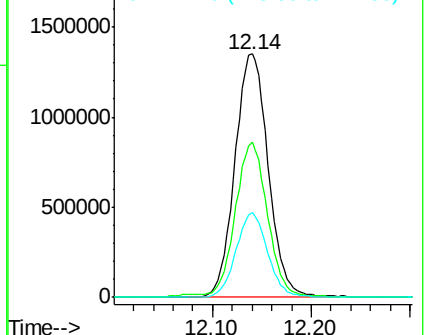
MMDadoda
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 11.225 ppbv

RT: 12.70 min Scan# 3084

Delta R.T. 0.00 min

Lab File: VL036054.D

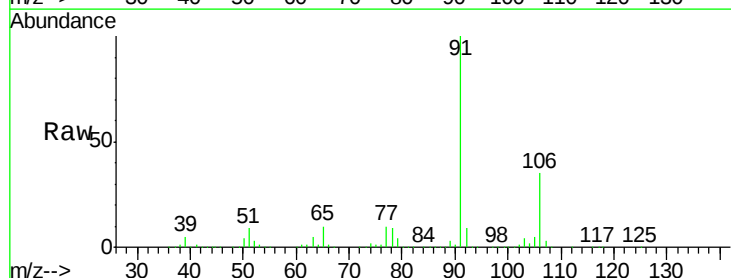
Acq: 3 Dec 2020 16:13

Tgt Ion: 91 Resp: 5089754

Ion Ratio Lower Upper

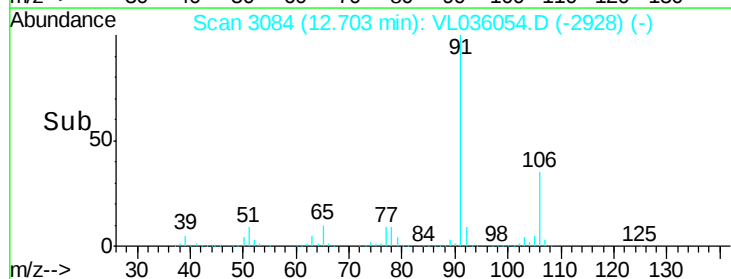
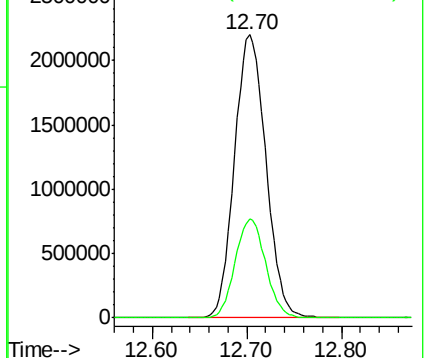
91 100

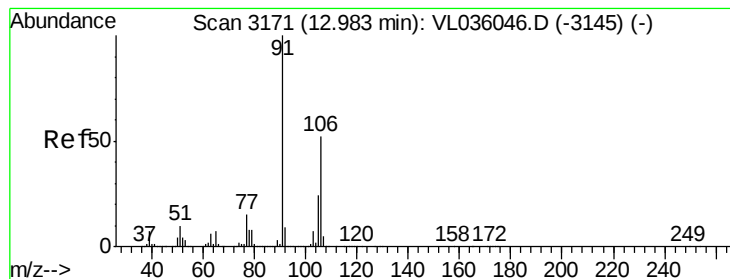
106 35.2 27.4 41.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 20.728 ppbv m

RT: 12.99 min Scan# 3173

Delta R.T. 0.01 min

Lab File: VL036054.D

Acq: 3 Dec 2020 16:13

Instrument :

MSVOA_L

ClientSampleId :

ICVVL120320

Tot Ion: 91 Resp: 8532712

Ion Ratio Lower Upper

91 100

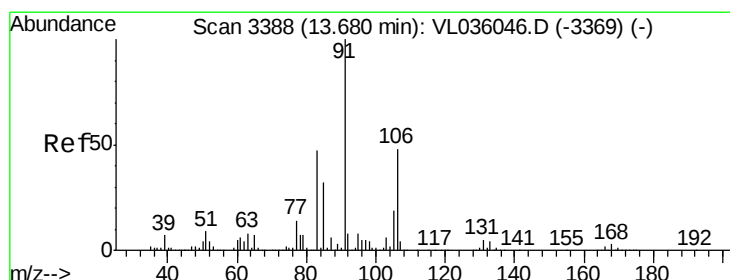
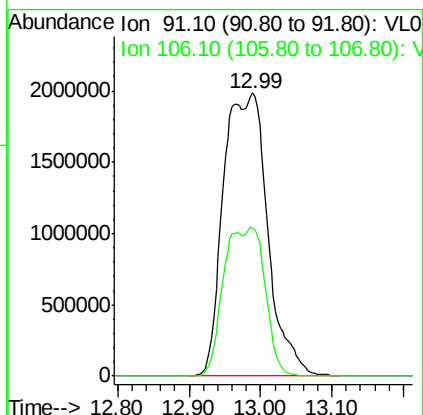
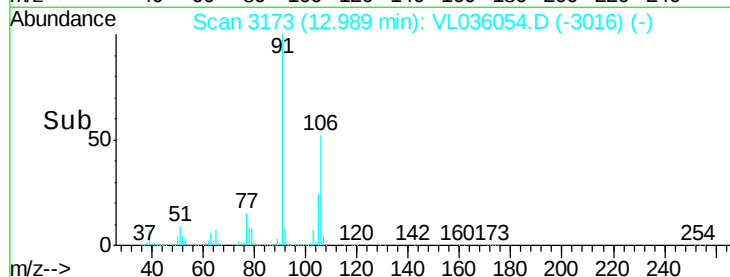
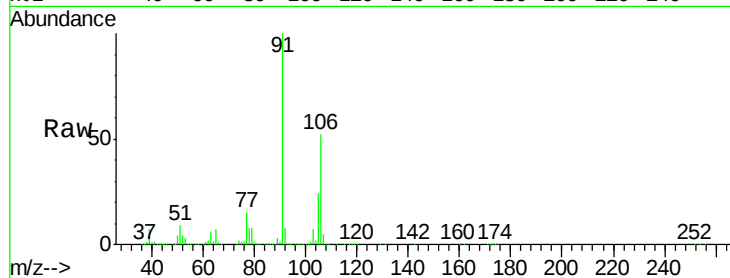
106 49.3 38.7 58.1

Manual Integrations

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#60

o-Xylene

Concen: 9.978 ppbv

RT: 13.69 min Scan# 3390

Delta R.T. 0.01 min

Lab File: VL036054.D

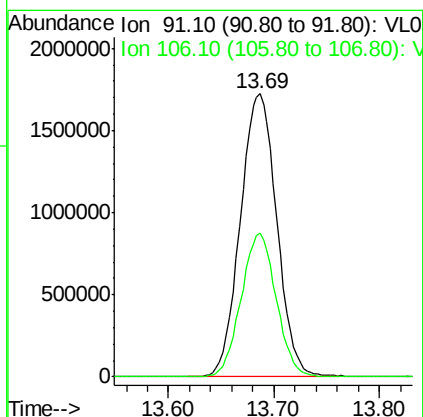
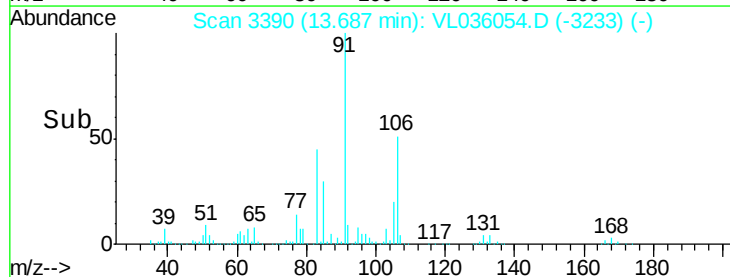
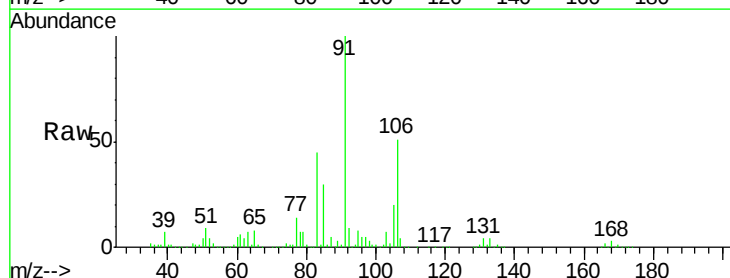
Acq: 3 Dec 2020 16:13

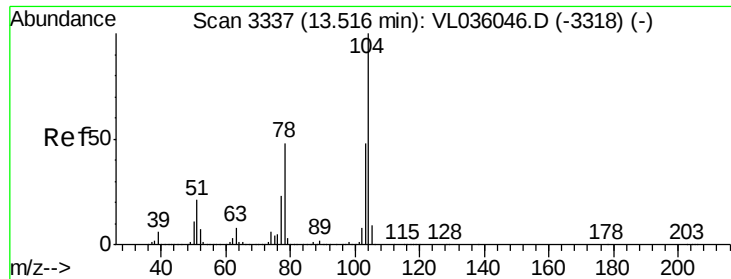
Tgt Ion: 91 Resp: 4129848

Ion Ratio Lower Upper

91 100

106 49.2 24.1 72.3





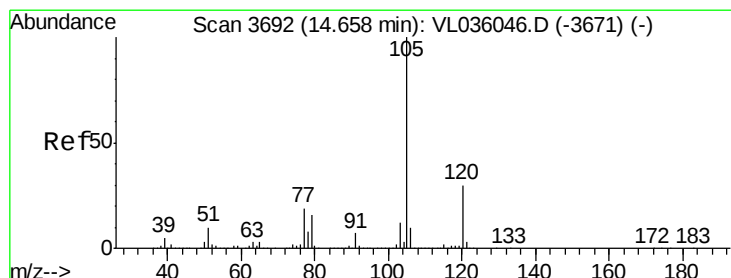
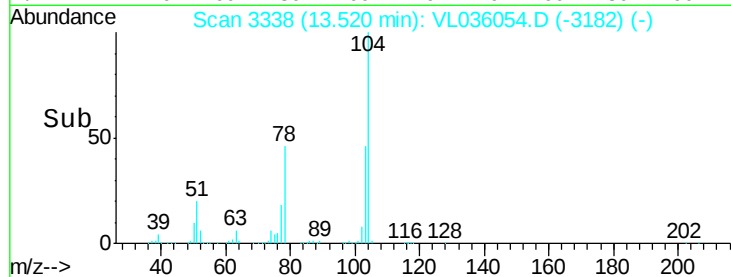
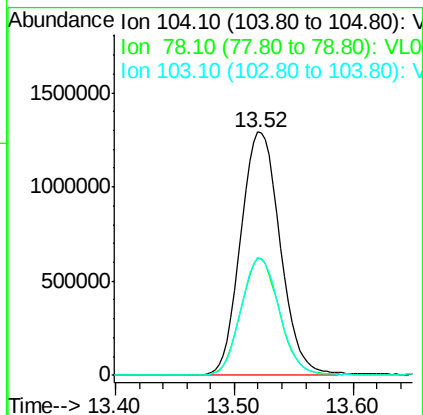
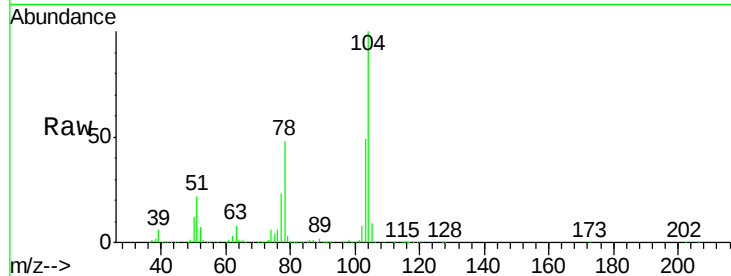
#61
Stvrene
Concen: 12.582 ppbv
RT: 13.52 min Scan# 3338
Delta R.T. 0.00 min
Lab File: VL036054.D
Acq: 3 Dec 2020 16:13

Instrument :
MSVOA_L
ClientSampleId :
ICVVL120320

Tot Ion:104 Resp: 2975761
Ion Ratio Lower Upper
104 100
78 47.1 38.0 57.0
103 47.4 37.7 56.5

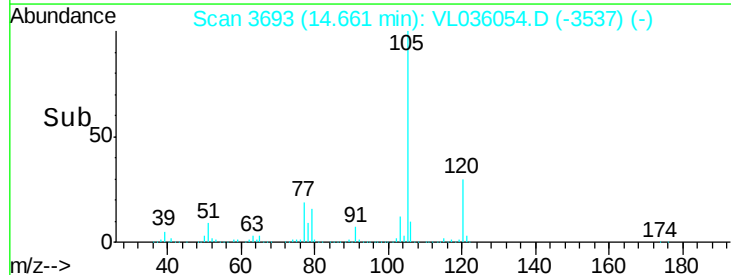
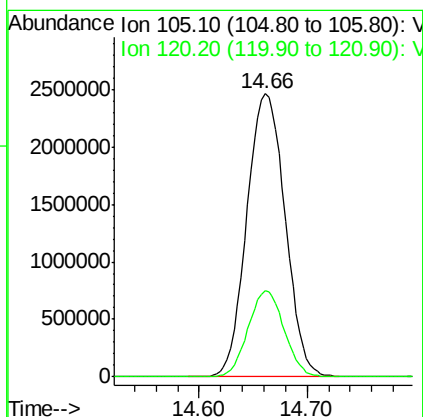
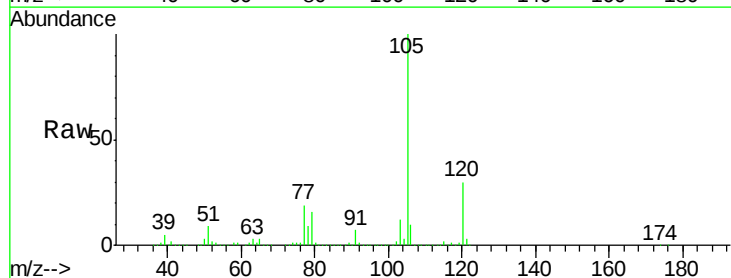
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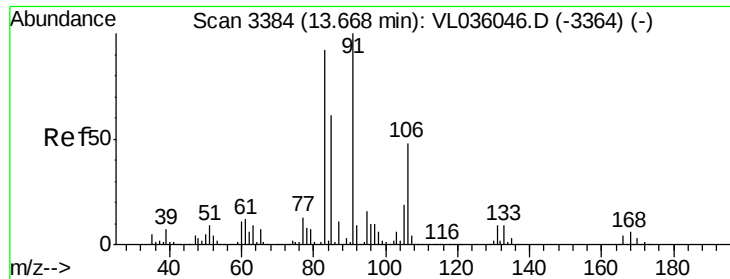
MMDadoda
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#62
Isopropylbenzene
Concen: 9.874 ppbv
RT: 14.66 min Scan# 3693
Delta R.T. 0.00 min
Lab File: VL036054.D
Acq: 3 Dec 2020 16:13

Tgt Ion:105 Resp: 6074158
Ion Ratio Lower Upper
105 100
120 28.8 22.6 34.0





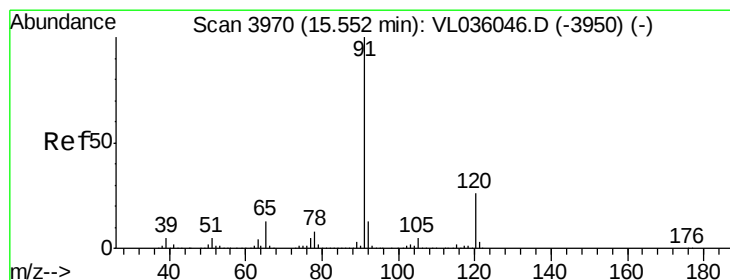
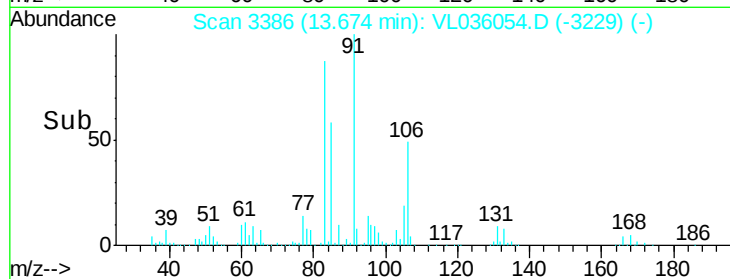
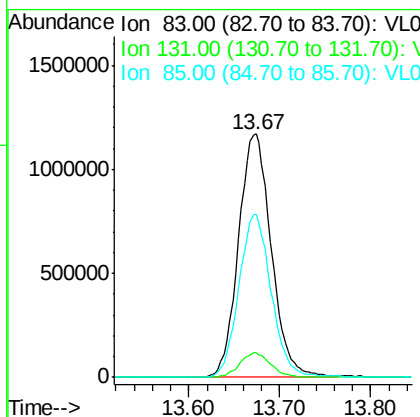
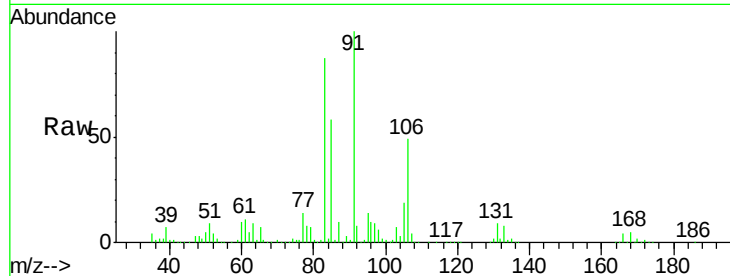
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.612 ppbv
 RT: 13.67 min Scan# 3386
 Delta R.T. 0.01 min
 Lab File: VL036054.D
 Acq: 3 Dec 2020 16:13

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL120320

Tot Ion	83	Resp	2930519
Ion Ratio	100	Lower	Upper
83	100		
131	9.6	4.8	14.4
85	66.3	33.3	99.9

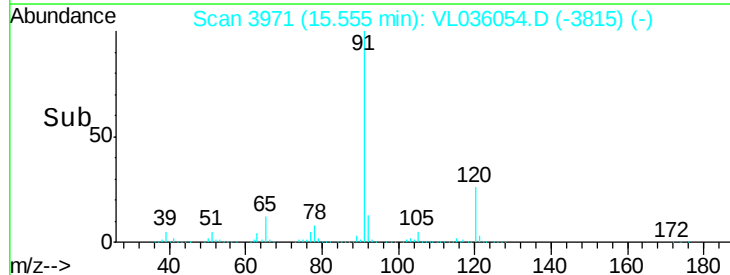
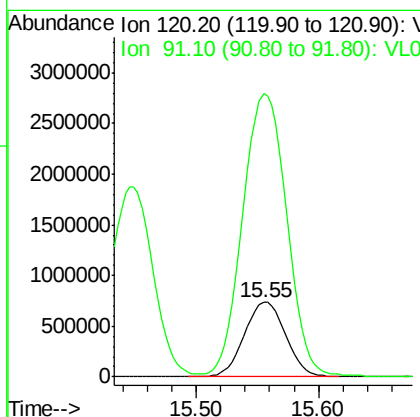
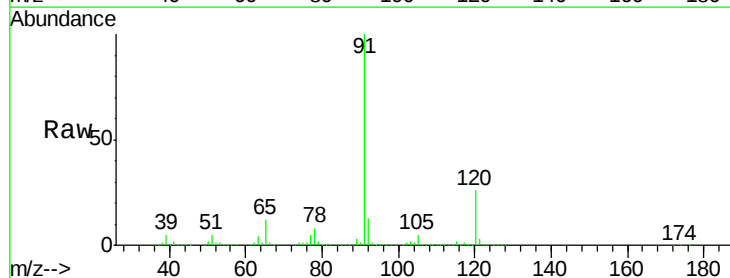
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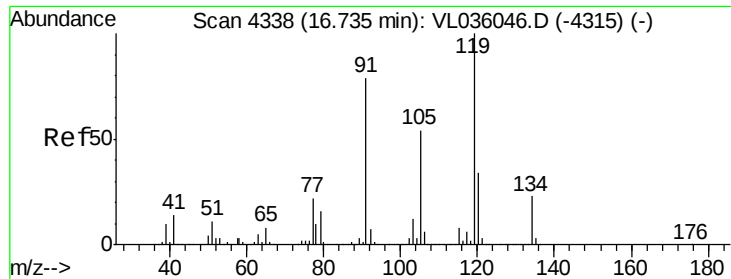
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#64
 n-propylbenzene
 Concen: 10.613 ppbv
 RT: 15.55 min Scan# 3971
 Delta R.T. 0.00 min
 Lab File: VL036054.D
 Acq: 3 Dec 2020 16:13

Tgt Ion	120	Resp	1727725
Ion Ratio	100	Lower	Upper
120	100		
91	406.3	331.4	497.2





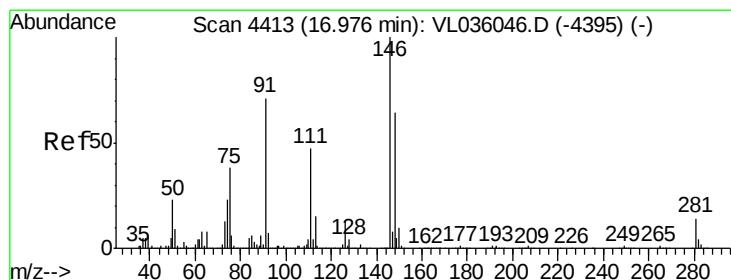
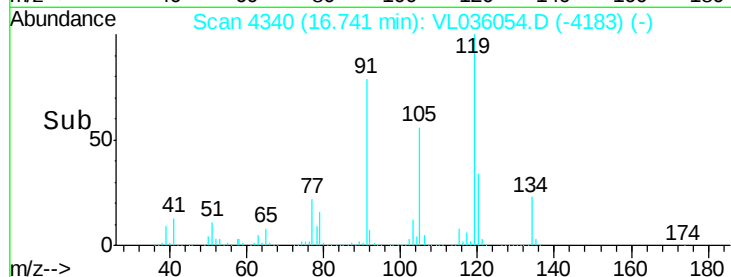
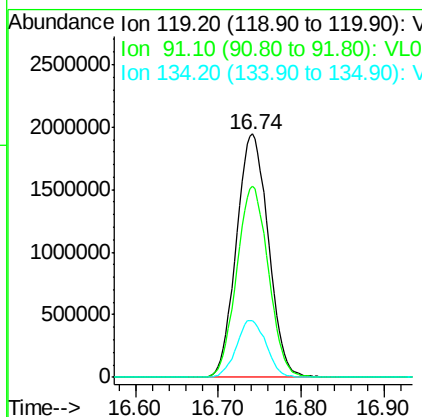
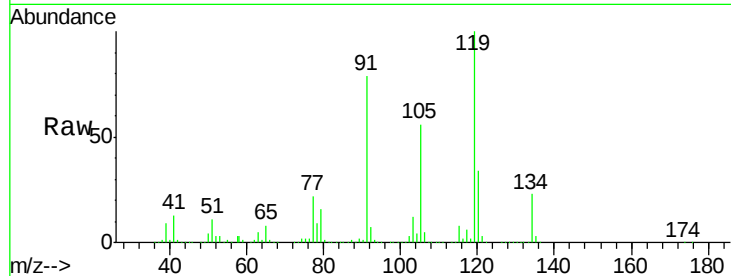
#65
tert-Butylbenzene
Concen: 10.102 ppbv
RT: 16.74 min Scan# 4340
Delta R.T. 0.01 min
Lab File: VL036054.D
Acq: 3 Dec 2020 16:13

Instrument :
MSVOA_L
ClientSampleId :
ICVVL120320

Tot Ion:119 Resp: 5216598
Ion Ratio Lower Upper
119 100
91 77.9 63.4 95.2
134 21.8 17.1 25.7

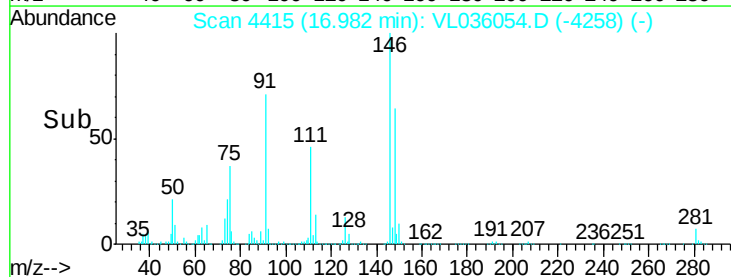
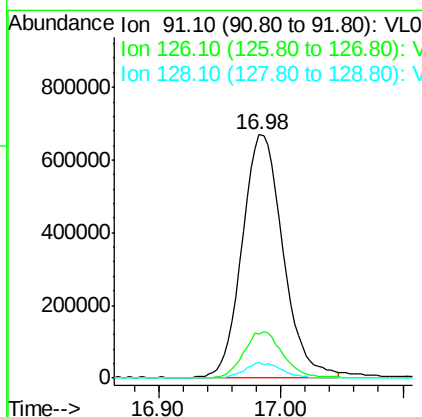
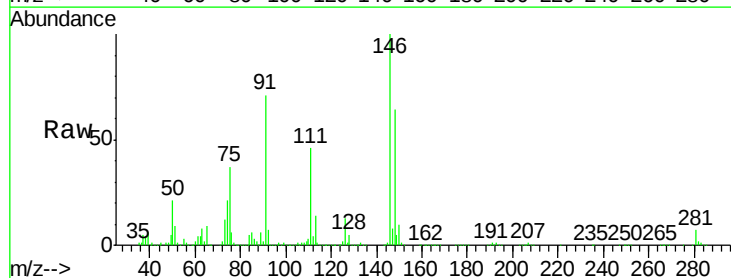
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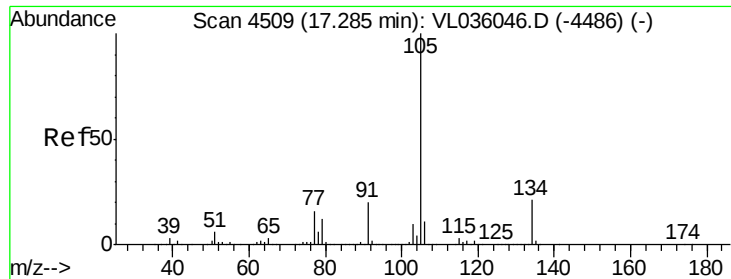
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#66
Benzyl Chloride
Concen: 12.481 ppbv
RT: 16.98 min Scan# 4415
Delta R.T. 0.01 min
Lab File: VL036054.D
Acq: 3 Dec 2020 16:13

Tgt Ion: 91 Resp: 1540315
Ion Ratio Lower Upper
91 100
126 18.7 14.3 21.5
128 6.0 4.7 7.1





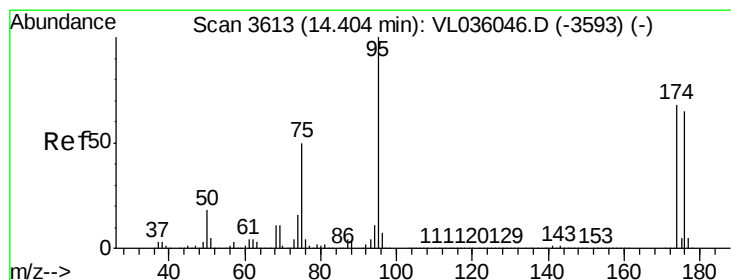
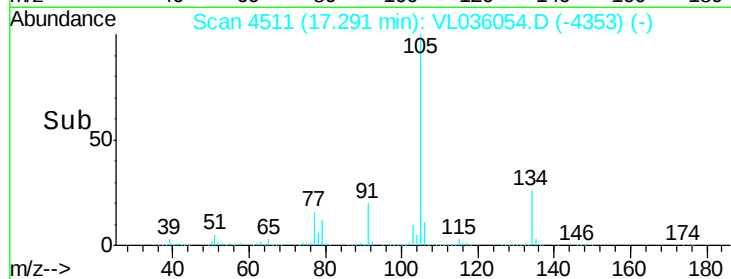
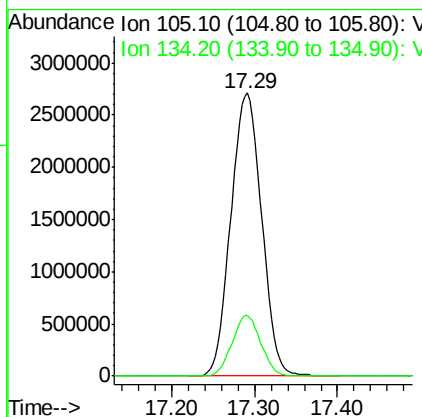
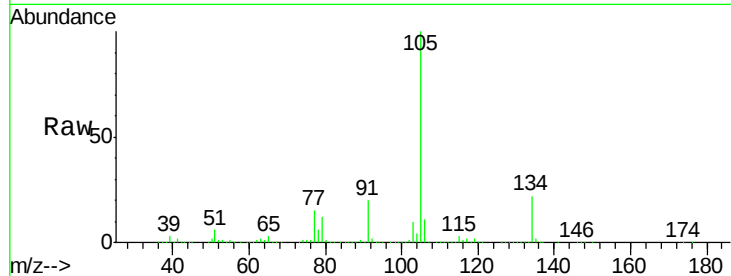
#67
 sec-Butylbenzene
 Concen: 9.876 ppbv
 RT: 17.29 min Scan# 4511
 Delta R.T. 0.01 min
 Lab File: VL036054.D
 Acq: 3 Dec 2020 16:13

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL120320

Tot Ion: 105 Resp: 6994762
 Ion Ratio Lower Upper
 105 100
 134 20.3 15.8 23.8

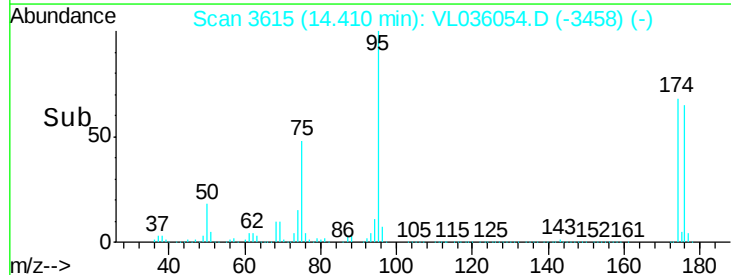
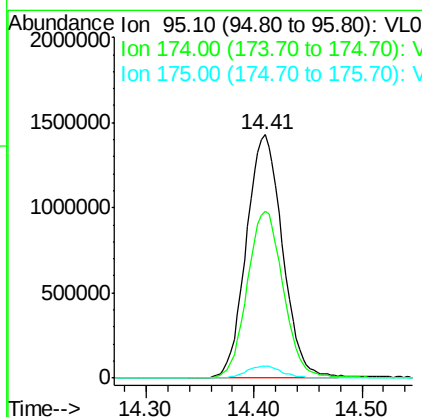
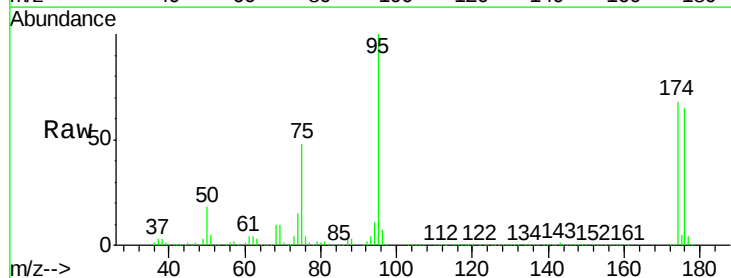
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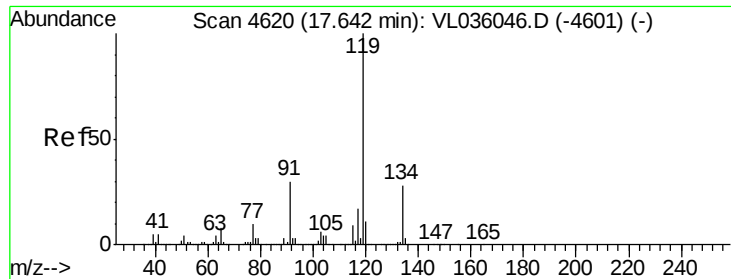
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.657 ppbv
 RT: 14.41 min Scan# 3615
 Delta R.T. 0.01 min
 Lab File: VL036054.D
 Acq: 3 Dec 2020 16:13

Tgt Ion: 95 Resp: 3326515
 Ion Ratio Lower Upper
 95 100
 174 69.2 54.2 81.2
 175 5.0 3.8 5.8





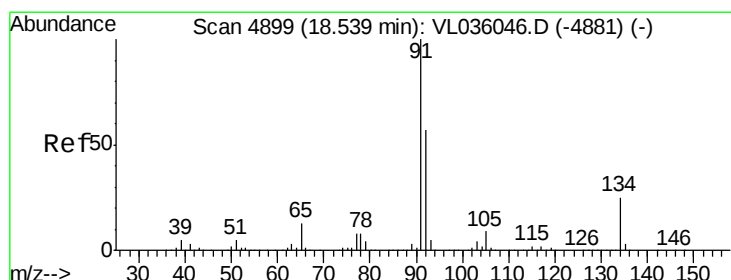
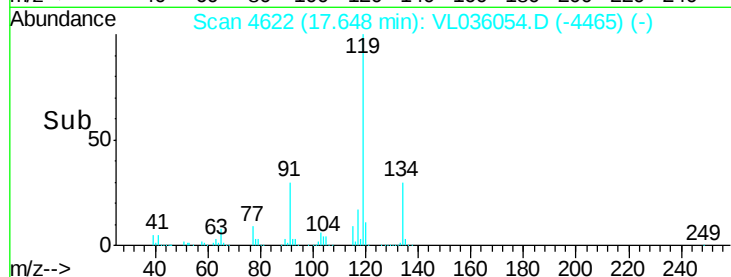
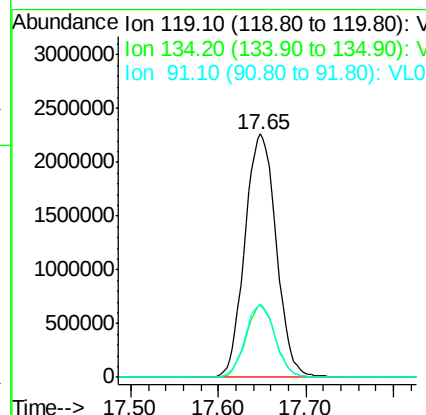
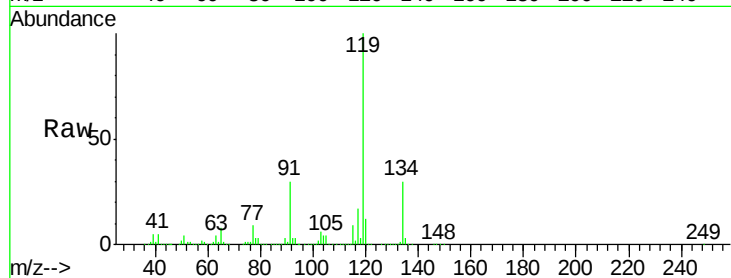
#69
p-Isopropyltoluene
Concen: 10.618 ppbv
RT: 17.65 min Scan# 4622
Delta R.T. 0.01 min
Lab File: VL036054.D
Acq: 3 Dec 2020 16:13

Instrument :
MSVOA_L
ClientSampleId :
ICVVL120320

Tot Ion: 119 Resp: 5636576
Ion Ratio Lower Upper
119 100
134 27.9 22.2 33.2
91 28.7 23.2 34.8

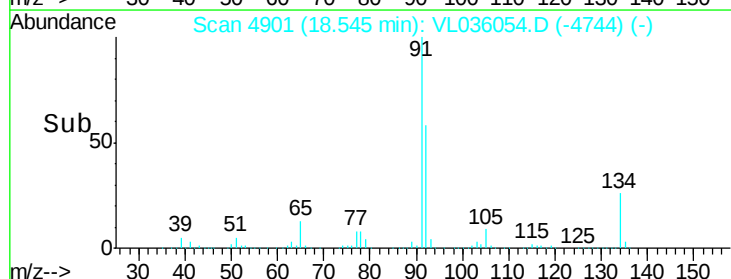
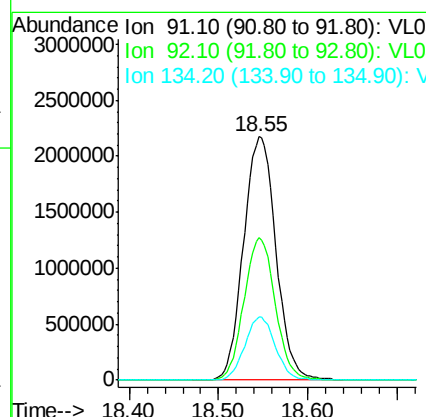
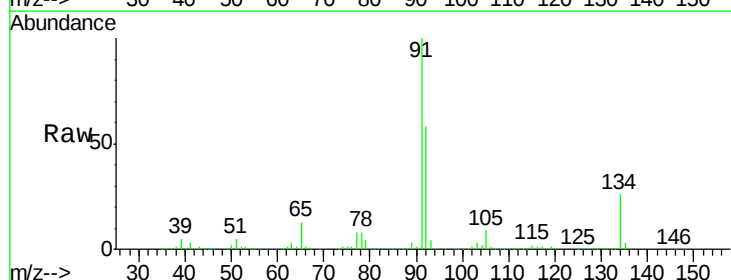
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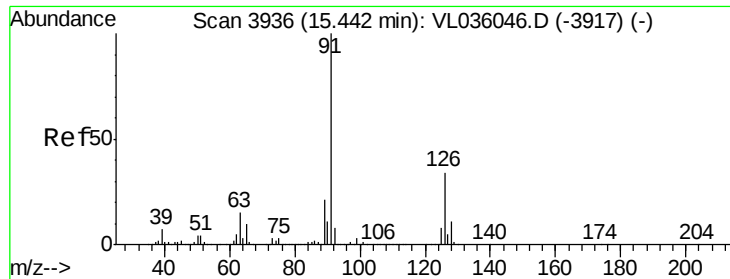
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#70
n-Butylbenzene
Concen: 10.378 ppbv
RT: 18.55 min Scan# 4901
Delta R.T. 0.01 min
Lab File: VL036054.D
Acq: 3 Dec 2020 16:13

Tgt Ion: 91 Resp: 5496792
Ion Ratio Lower Upper
91 100
92 56.4 45.2 67.8
134 24.7 19.2 28.8





#71

2-Chlorotoluene

Concen: 10.494 ppbv

RT: 15.45 min Scan# 3938

Delta R.T. 0.01 min

Lab File: VL036054.D

Acq: 3 Dec 2020 16:13

Instrument :

MSVOA_L

ClientSampleId :

ICVVL120320

Tot Ion: 91 Resp: 4468648

Ion Ratio Lower Upper

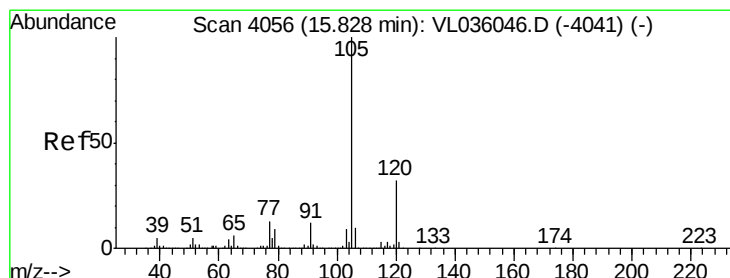
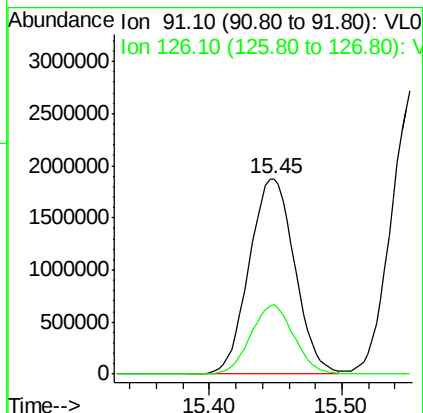
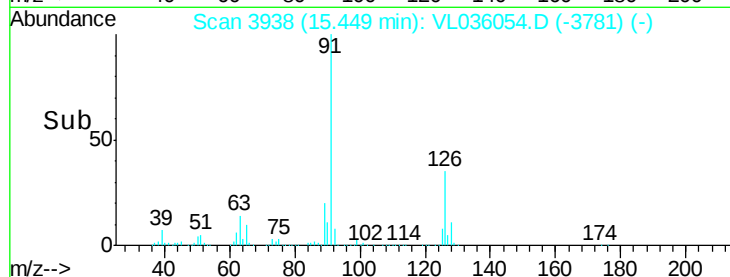
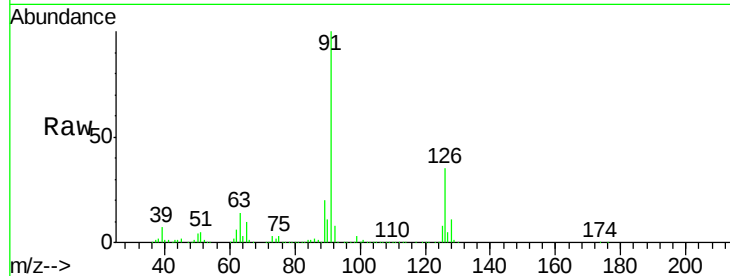
91 100

126 34.0 13.2 53.0

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#72

4-Ethyltoluene

Concen: 11.006 ppbv

RT: 15.83 min Scan# 4058

Delta R.T. 0.01 min

Lab File: VL036054.D

Acq: 3 Dec 2020 16:13

Tgt Ion: 105 Resp: 4711064

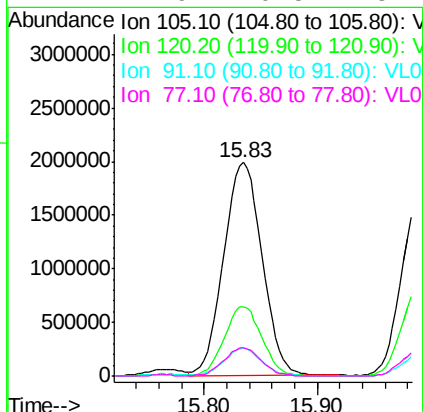
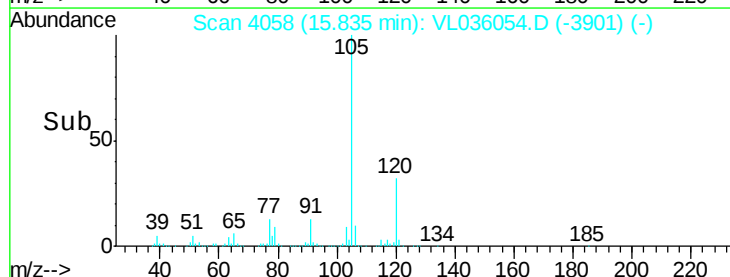
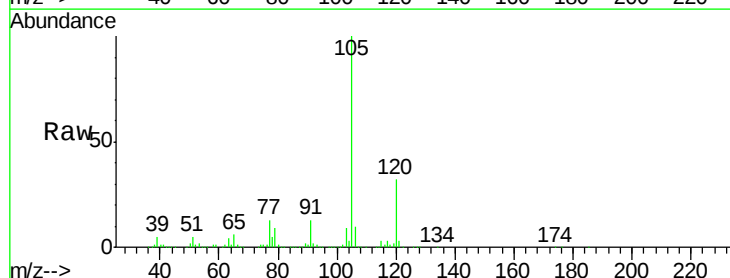
Ion Ratio Lower Upper

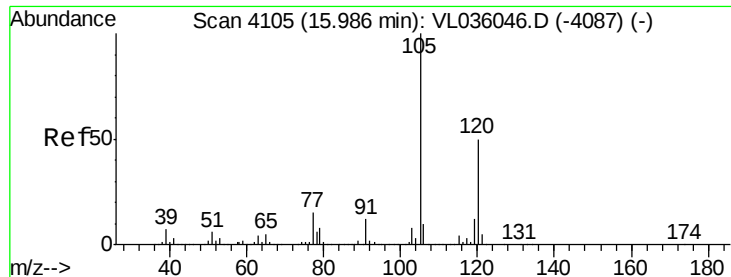
105 100

120 32.0 25.3 37.9

91 13.3 10.1 15.1

77 12.9 10.5 15.7





#73

1,3,5-Trimethylbenzene

Concen: 10.554 ppbv

RT: 15.99 min Scan# 4107

Delta R.T. 0.01 min

Lab File: VL036054.D

Acq: 3 Dec 2020 16:13

Instrument :

MSVOA_L

ClientSampleId :

ICVVL120320

Tot Ion:105 Resp: 4247390

Ion Ratio Lower Upper

105 100

120 51.1

39.8

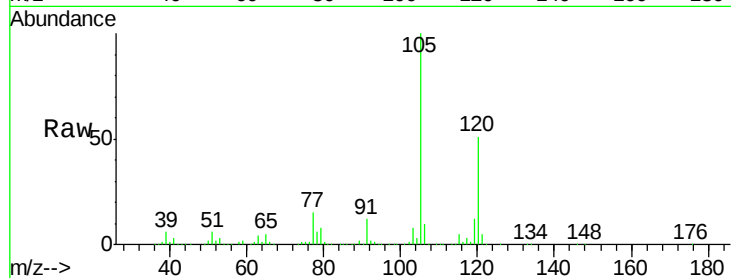
59.8

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

2000000

1500000

1000000

500000

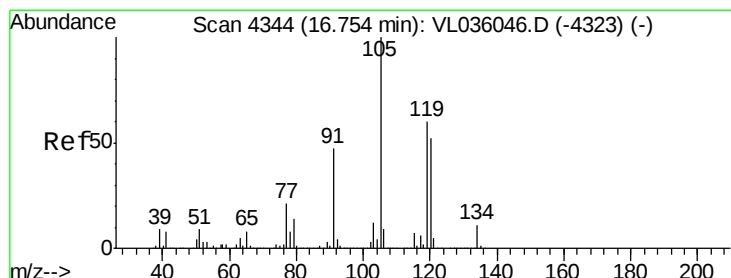
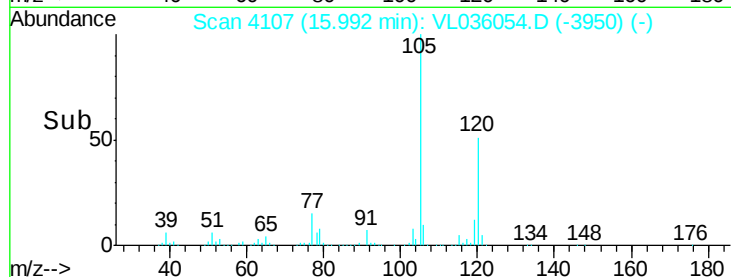
0

15.90

16.00

16.10

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 9.880 ppbv

RT: 16.76 min Scan# 4346

Delta R.T. 0.01 min

Lab File: VL036054.D

Acq: 3 Dec 2020 16:13

Tgt Ion:105 Resp: 4427291

Ion Ratio Lower Upper

105 100

120 51.8

41.5

62.3

91 44.9

38.1

57.1

77 20.5

17.0

25.4

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): V

Ion 77.10 (76.80 to 77.80): V

2500000

2000000

1500000

1000000

500000

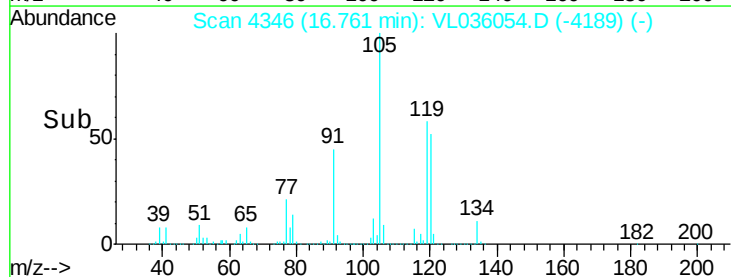
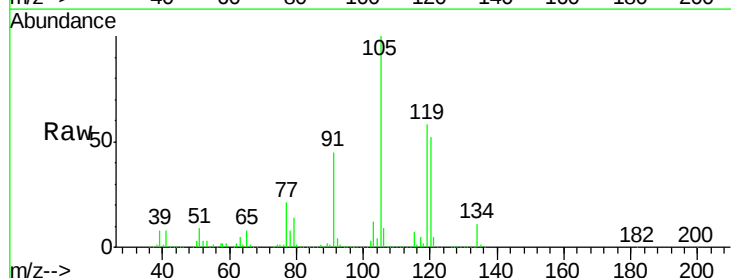
0

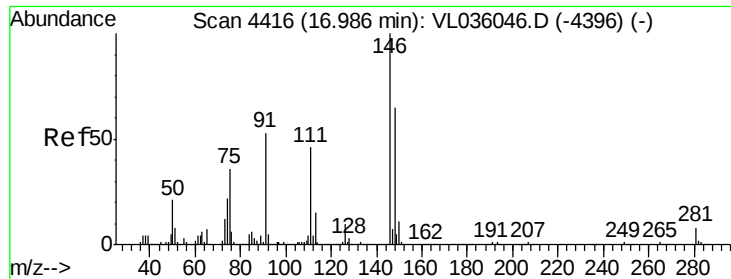
16.70

16.80

16.90

Time-->





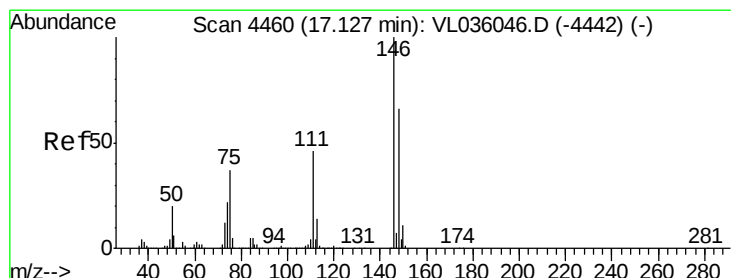
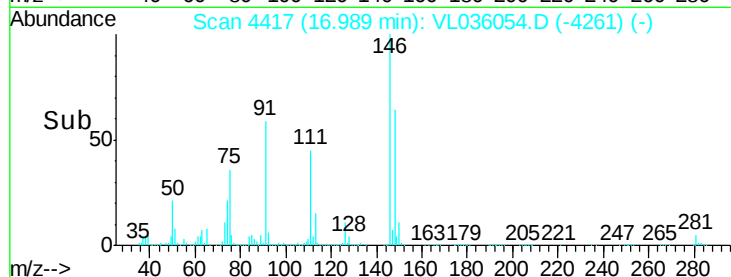
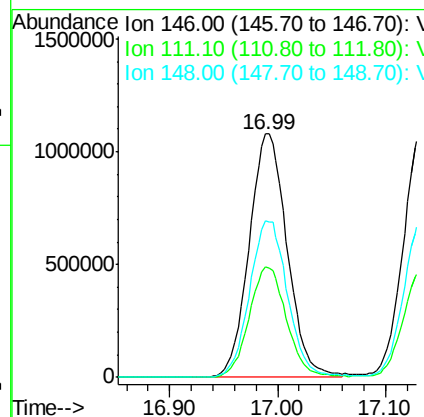
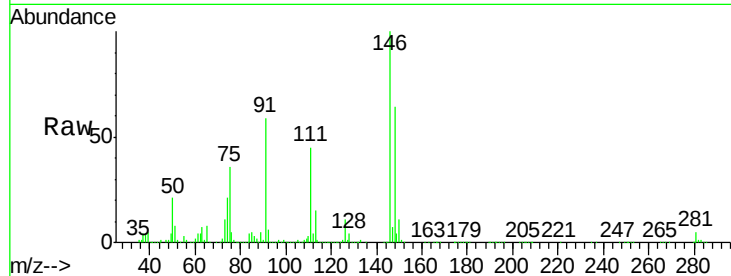
#75
 1,3-Dichlorobenzene
 Concen: 9.805 ppbv
 RT: 16.99 min Scan# 4417
 Delta R.T. 0.00 min
 Lab File: VL036054.D
 Acq: 3 Dec 2020 16:13

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL120320

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.0	22.9	68.7
148	64.6	32.4	97.0

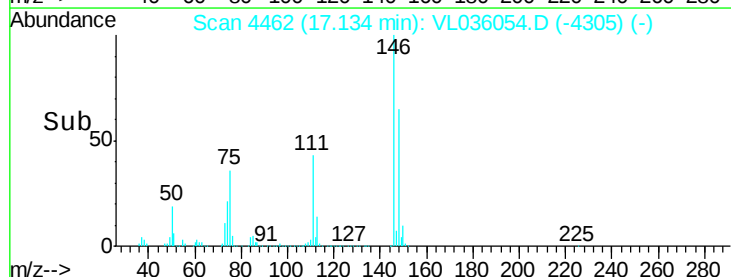
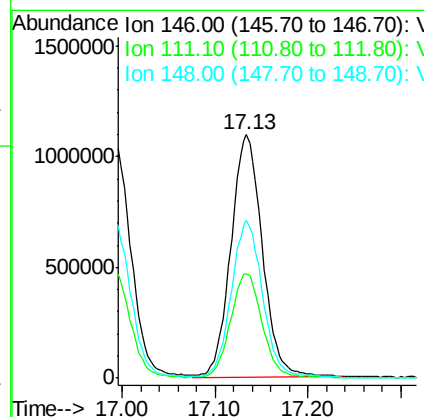
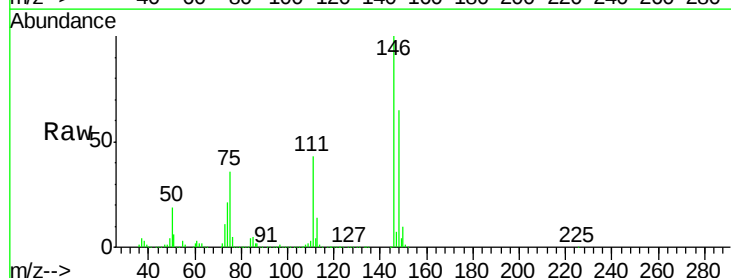
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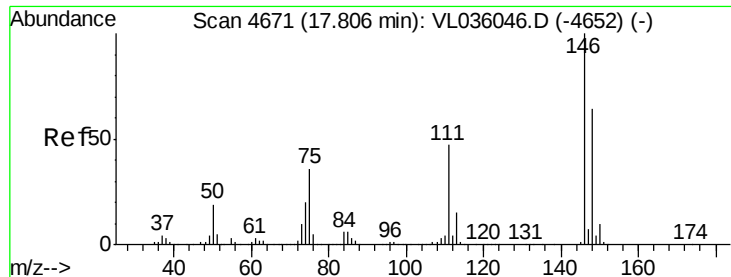
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#76
 1,4-Dichlorobenzene
 Concen: 10.119 ppbv
 RT: 17.13 min Scan# 4462
 Delta R.T. 0.01 min
 Lab File: VL036054.D
 Acq: 3 Dec 2020 16:13

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.8	22.4	67.2
148	65.0	33.0	98.9





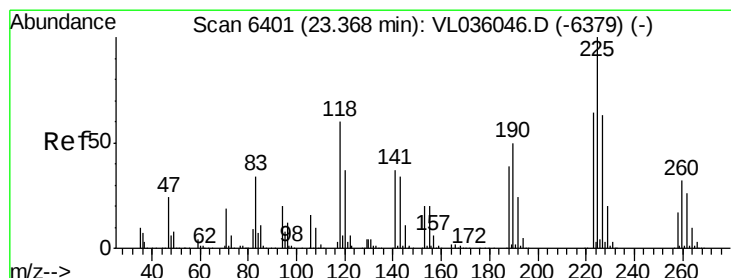
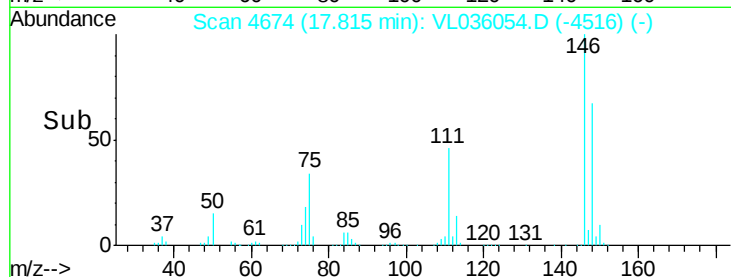
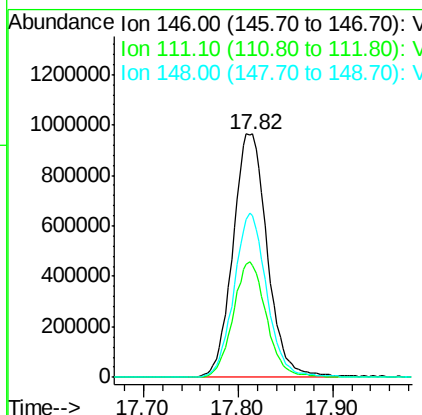
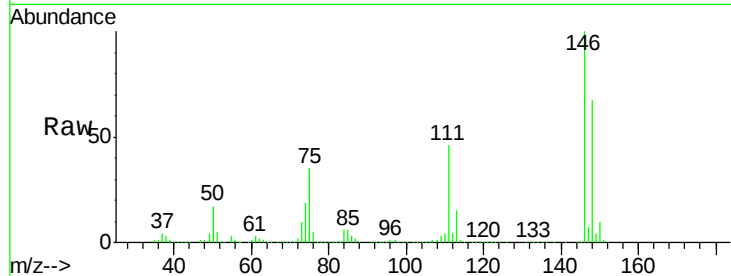
#77
 1,2-Dichlorobenzene
 Concen: 9.781 ppbv
 RT: 17.82 min Scan# 4674
 Delta R.T. 0.01 min
 Lab File: VL036054.D
 Acq: 3 Dec 2020 16:13

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL120320

Tot Ion:146 Resp: 2422148
 Ion Ratio Lower Upper
 146 100
 111 46.1 23.5 70.6
 148 64.6 32.5 97.5

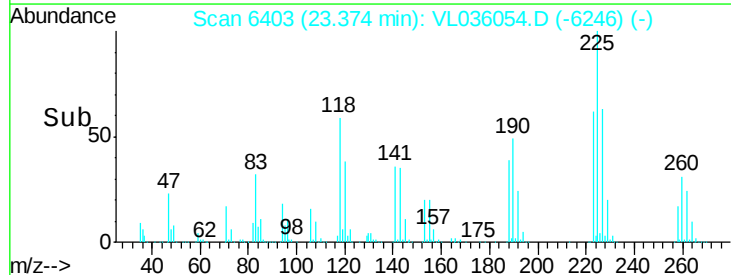
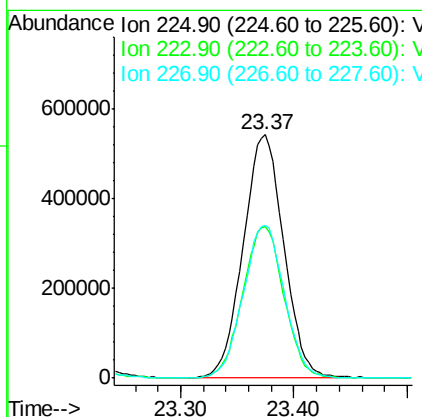
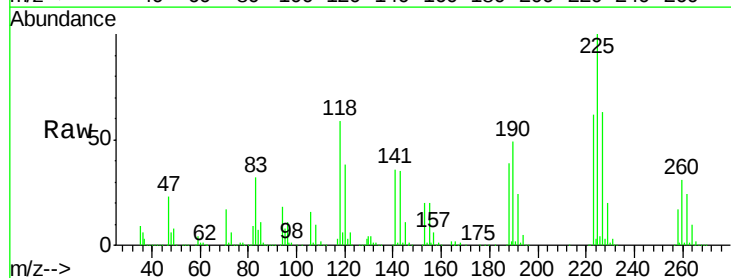
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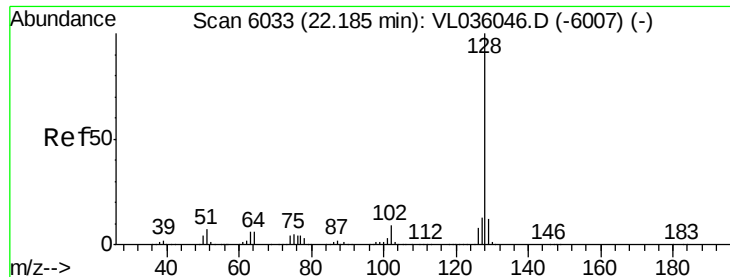
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#78
 Hexachloro-1,3-Butadiene
 Concen: 9.897 ppbv
 RT: 23.37 min Scan# 6403
 Delta R.T. 0.01 min
 Lab File: VL036054.D
 Acq: 3 Dec 2020 16:13

Tgt Ion:225 Resp: 1351750
 Ion Ratio Lower Upper
 225 100
 223 63.7 51.0 76.4
 227 63.9 51.2 76.8





#79

Naphthalene

Concen: 13.892 ppbv

RT: 22.19 min Scan# 6035

Delta R.T. 0.01 min

Lab File: VL036054.D

Acq: 3 Dec 2020 16:13

Instrument :

MSVOA_L

ClientSampleId :

ICVVL120320

Tot Ion:128 Resp: 2971961

Ion Ratio Lower Upper

128 100

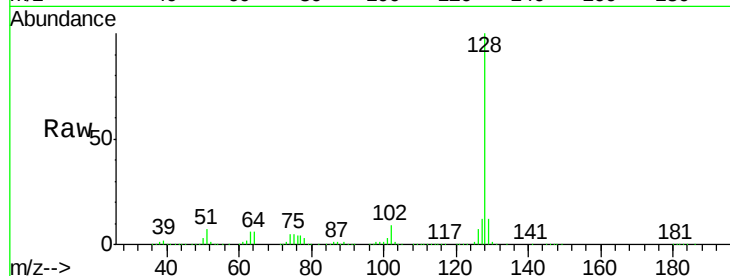
127 12.3 10.3 15.5

129 11.5 9.3 13.9

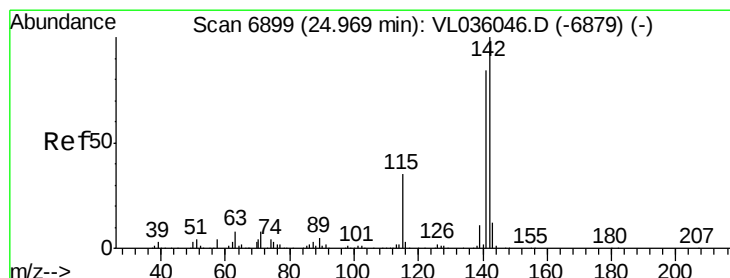
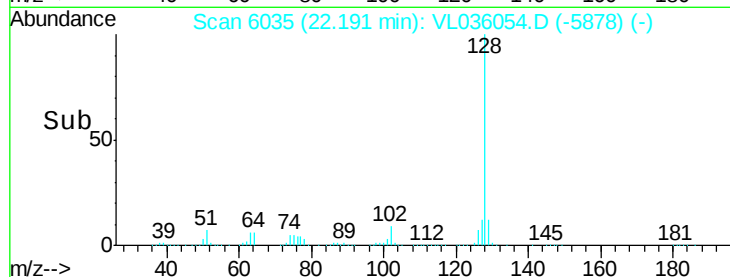
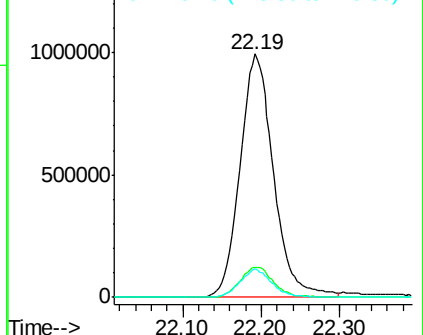
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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 28.083 ppbv

RT: 24.97 min Scan# 6900

Delta R.T. 0.00 min

Lab File: VL036054.D

Acq: 3 Dec 2020 16:13

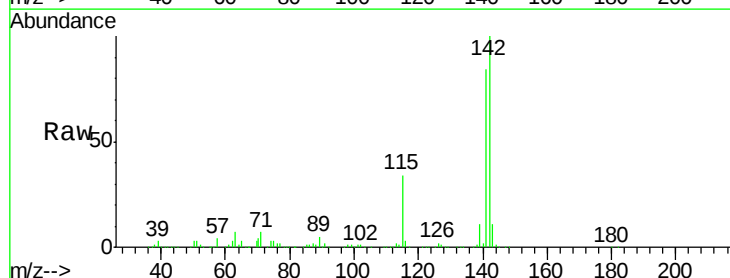
Tgt Ion:142 Resp: 1257950

Ion Ratio Lower Upper

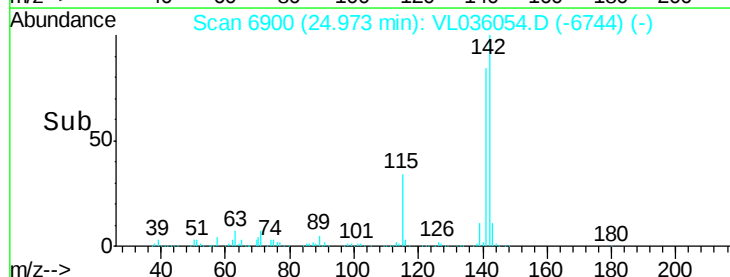
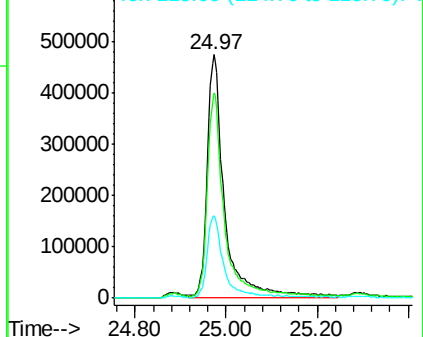
142 100

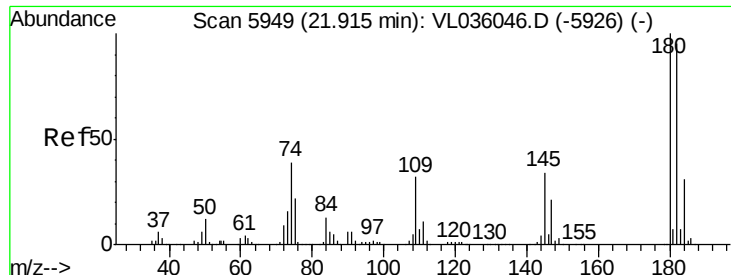
141 81.7 68.6 103.0

115 32.6 27.9 41.9



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: 12.015 ppbv
 RT: 21.92 min Scan# 5951
 Delta R.T. 0.01 min
 Lab File: VL036054.D
 Acq: 3 Dec 2020 16:13

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL120320

Tot Ion	Ratio	Lower	Upper
180	100		
182	98.0	78.5	117.7
184	31.5	25.0	37.6

Manual Integrations
 APPROVED

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