

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111220\
 Data File : VL035910.D
 Acq On : 12 Nov 2020 11:51
 Operator : SY/AP
 Sample : VL1112ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1112ABS01

Manual Integrations
 APPROVED

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 11/16/2020 2:28:00 PM

Quant Time: Nov 13 01:07:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 04
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1122399	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4149480	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	4157757m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	3011635	10.20	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	2001908	9.474	ppbv	99
3) Chlorodifluoromethane	2.98	51	1277221	9.502	ppbv	99
4) Chloromethane	3.13	50	626819	9.599	ppbv	99
5) Vinyl Chloride	3.25	62	783092	9.408	ppbv	100
6) Bromomethane	3.47	94	639978	9.560	ppbv	100
7) Chloroethane	3.55	64	288550	9.850	ppbv	97
8) Dichlorotetrafluoroethane	3.18	85	2245164	9.284	ppbv	97
9) Propene	3.00	41	456216	9.273	ppbv	95
10) Heptane	8.13	43	1402324	10.320	ppbv	99
11) Trichlorofluoromethane	3.94	101	2668020	10.055	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1956922	9.906	ppbv	100
13) Ethanol	3.60	45	81133	7.602	ppbv	95
14) Bromoethene	3.73	108	818545	9.003	ppbv	99
15) Acetone	3.84	43	1124612	9.372	ppbv	99
16) 1,3-Butadiene	3.32	39	512845	9.927	ppbv	97
17) tert-Butyl alcohol	4.29	59	1406824	8.846	ppbv	100
18) 1,1-Dichloroethene	4.29	96	886415	9.772	ppbv	97
19) Isopropyl Alcohol	3.97	45	622128	8.437	ppbv #	97
20) Methylene Chloride	4.34	84	711262	8.420	ppbv	99
21) Allyl Chloride	4.41	41	636458	9.808	ppbv	96
22) trans-1,2-Dichloroethene	4.88	96	915203	9.953	ppbv	98
23) Vinyl Acetate	5.07	43	1575072	9.364	ppbv	99
24) 1,1-Dichloroethane	5.01	63	1565595	9.770	ppbv	100
25) Ethyl Acetate	5.68	43	2369118	10.022	ppbv	99
26) Hexane	5.69	57	1230651	9.440	ppbv	97
27) Carbon Disulfide	4.55	76	1935448	9.908	ppbv	100
28) Methyl tert-Butyl Ether	5.03	73	2112184	9.022	ppbv	99
29) Chloroform	5.75	83	2442437	9.532	ppbv	98
30) Cyclohexane	7.13	84	1279660	9.012	ppbv	95
31) cis-1,2-Dichloroethene	5.55	61	1296004	9.663	ppbv	94
32) 1,1,1-Trichloroethane	6.51	97	2363888	8.841	ppbv	98
34) 2-Butanone	5.24	43	1489557	11.061	ppbv	97
35) Carbon Tetrachloride	7.02	117	2386094	10.762	ppbv	98
36) Benzene	6.89	78	3048686	9.883	ppbv	99
37) 1,2-Dichloroethane	6.31	62	1551920	11.105	ppbv	98
38) Trichloroethene	7.84	130	1424973	9.457	ppbv	96
39) 1,2-Dichloropropane	7.62	63	1074020	10.341	ppbv	98
40) 1,4-Dioxane	7.83	88	458737	9.319	ppbv	77
41) Tetrahydrofuran	6.05	42	886146	11.582	ppbv	96
42) Bromodichloromethane	7.79	83	2515425	10.667	ppbv	97
43) Methyl Methacrylate	8.02	69	1266376	10.762	ppbv	95

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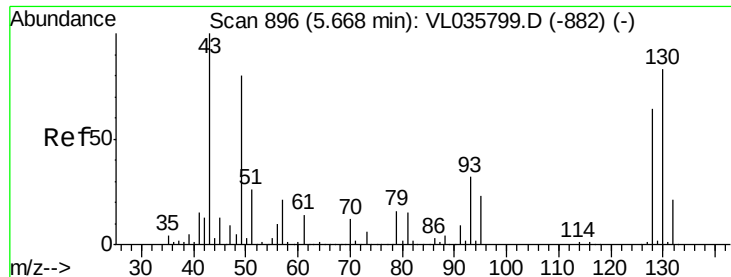
Manual Integrations
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Quant Time: Nov 13 01:07:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 04
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	4256869	10.428	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	1358543	10.891	ppbv	100
46) cis-1,3-Dichloropropene	8.71	75	1693566	10.721	ppbv	97
47) 1,1,2-Trichloroethane	9.48	97	1429606	10.102	ppbv	99
48) Dibromochloromethane	10.31	129	2361398	10.922	ppbv	100
49) Bromoform	13.05	173	2037127	11.166	ppbv	100
50) 4-Methyl-2-Pentanone	8.74	43	2369849	11.508	ppbv	98
51) 2-Hexanone	10.14	43	1956510	11.827	ppbv	98
52) Tetrachloroethene	11.23	164	1321158	9.040	ppbv	97
53) Toluene	9.81	91	3721691	9.998	ppbv	99
54) 1,2-Dibromoethane	10.62	107	2179581	10.127	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.13	131	1837795	9.848	ppbv	98
57) Chlorobenzene	12.15	112	3072270	9.293	ppbv	99
58) Ethyl Benzene	12.72	91	4913022	9.702	ppbv	100
59) m/p-Xylene	13.00	91	8434150m	19.686	ppbv	
60) o-Xylene	13.70	91	4121470	9.889	ppbv	99
61) Styrene	13.54	104	3106000	10.171	ppbv	99
62) Isopropylbenzene	14.68	105	6198723	9.463	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.69	83	3042541	9.422	ppbv	99
64) n-propylbenzene	15.57	120	1850441	9.773	ppbv	97
65) tert-Butylbenzene	16.75	119	5739626	9.626	ppbv	99
66) Benzyl Chloride	17.00	91	2094720	10.629	ppbv	99
67) sec-Butylbenzene	17.30	105	7783987	9.687	ppbv	100
69) p-Isopropyltoluene	17.66	119	6595022	9.946	ppbv	99
70) n-Butylbenzene	18.56	91	6663855	10.436	ppbv	99
71) 2-Chlorotoluene	15.46	91	4771051	9.957	ppbv	98
72) 4-Ethyltoluene	15.85	105	5040358	9.972	ppbv	100
73) 1,3,5-Trimethylbenzene	16.01	105	4708741	10.179	ppbv	99
74) 1,2,4-Trimethylbenzene	16.77	105	4961289	10.009	ppbv	98
75) 1,3-Dichlorobenzene	17.01	146	3102573	9.831	ppbv	99
76) 1,4-Dichlorobenzene	17.15	146	3074966	10.100	ppbv	99
77) 1,2-Dichlorobenzene	17.83	146	3058085	9.940	ppbv	99
78) Hexachloro-1,3-Butadiene	23.39	225	1767596	12.314	ppbv	99
79) Naphthalene	22.21	128	4472430	12.944	ppbv	99
80) Naphthalene,2-methyl-	24.99	142	909486	16.152	ppbv	99
81) 1,2,4-Trichlorobenzene	21.94	180	2299156	11.910	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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MSVOA_L

ClientSampleId :

VL1112ABS01

Tot Ion: 49 Resp: 1122399

Ion Ratio Lower Upper

49 100

128 79.3 41.5 124.6

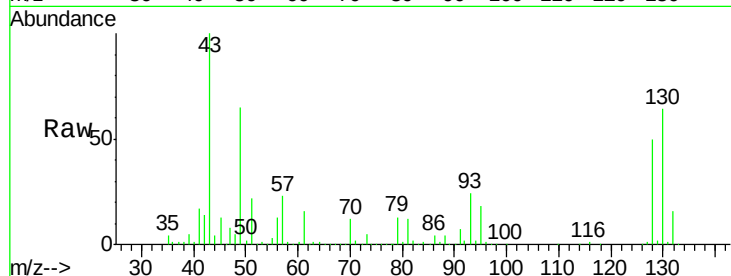
130 101.2 53.7 161.1

Manual Integrations

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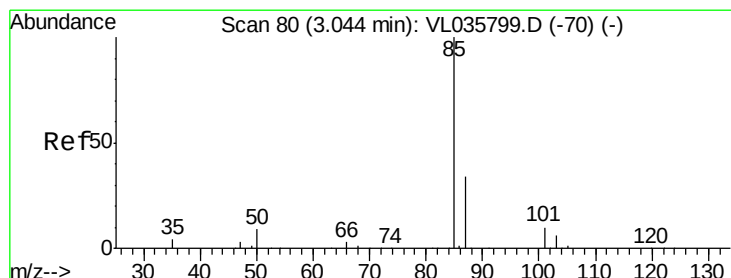
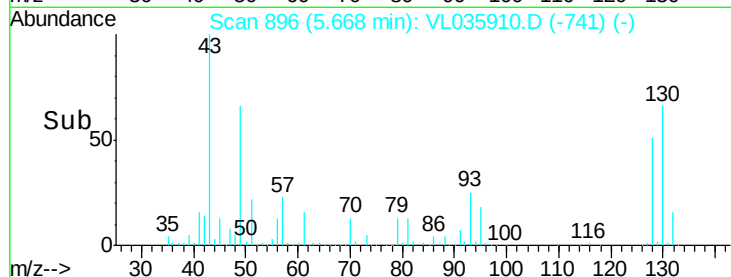
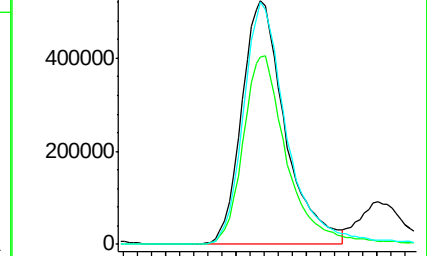
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 9.474 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.00 min

Lab File: VL035910.D

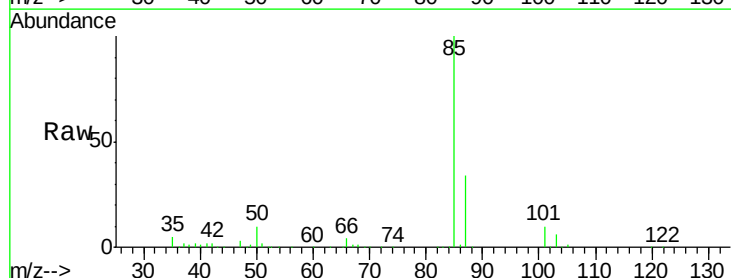
Acq: 12 Nov 2020 11:51

Tgt Ion: 85 Resp: 2001908

Ion Ratio Lower Upper

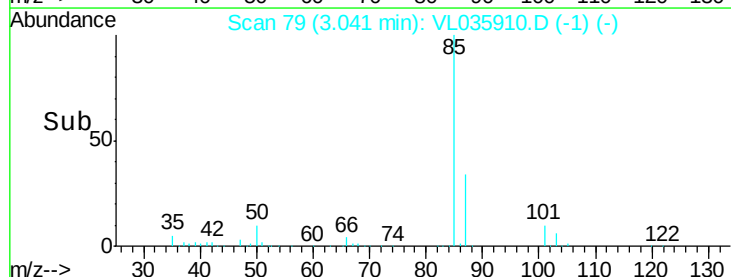
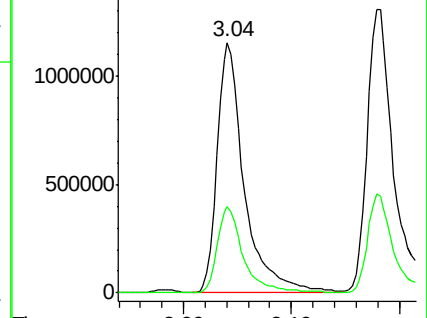
85 100

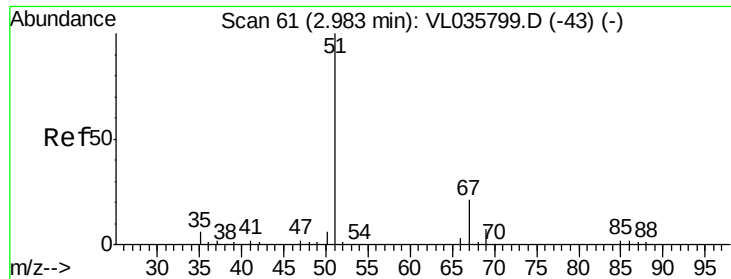
87 34.5 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





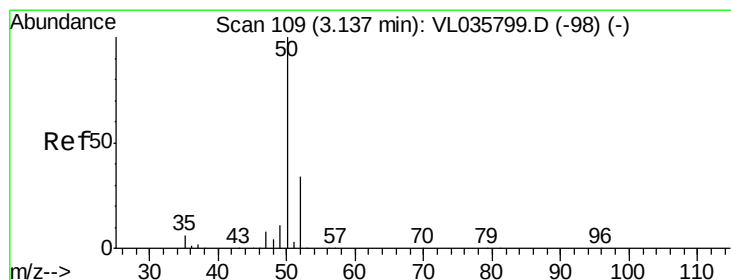
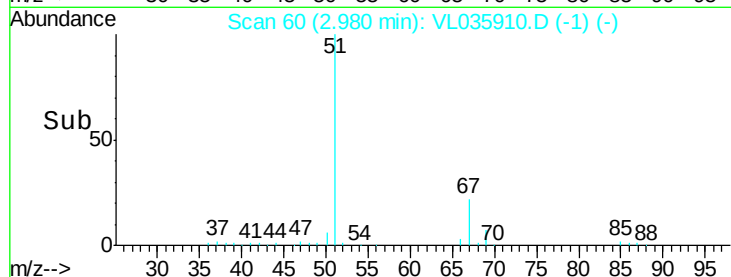
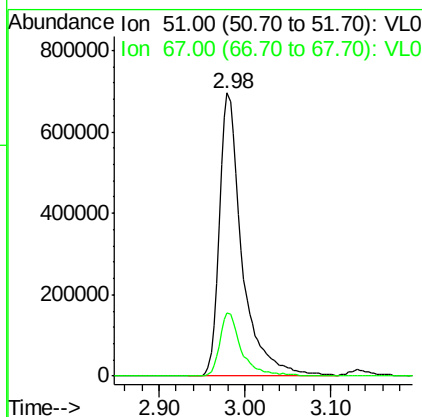
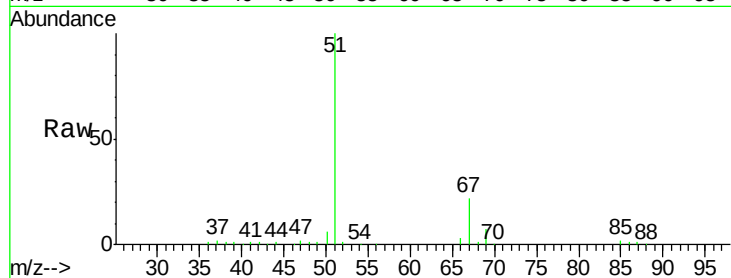
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Chlorodifluoromethane
Concen: 9.502 ppbv
RT: 2.98 min Scan# 60
Delta R.T. -0.00 min
Lab File: VL035910.D
Acq: 12 Nov 2020 11:51

Instrument :
MSVOA_L
ClientSampleId :
VL1112ABS01

Tot Ion: 51 Resp: 1277221
Ion Ratio Lower Upper
51 100
67 21.7 17.0 25.4

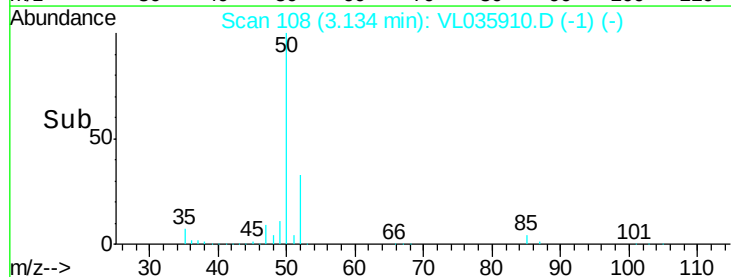
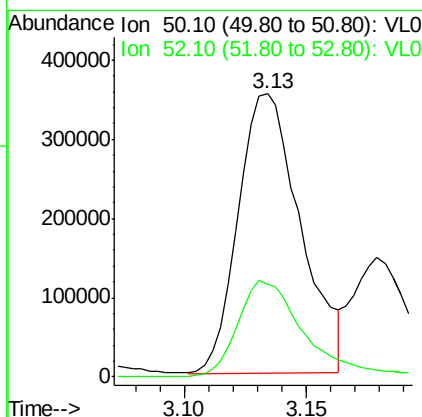
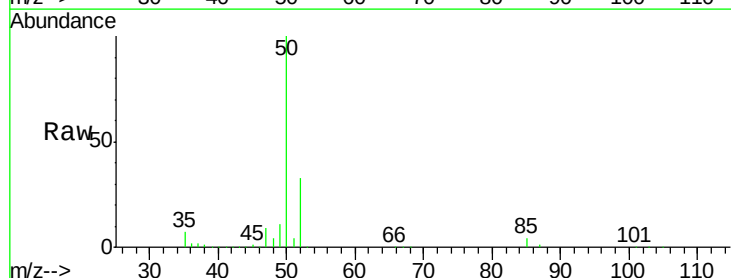
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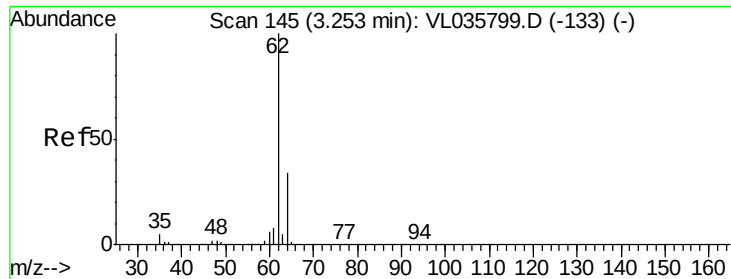
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#4
Chloromethane
Concen: 9.599 ppbv
RT: 3.13 min Scan# 108
Delta R.T. -0.00 min
Lab File: VL035910.D
Acq: 12 Nov 2020 11:51

Tgt Ion: 50 Resp: 626819
Ion Ratio Lower Upper
50 100
52 33.3 27.1 40.7





#5

Vinyl Chloride

Concen: 9.408 ppbv

RT: 3.25 min Scan# 144

Delta R.T. -0.00 min

Lab File: VL035910.D

Acq: 12 Nov 2020 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1112ABS01

Tot Ion: 62 Resp: 783092

Ion Ratio Lower Upper

62 100

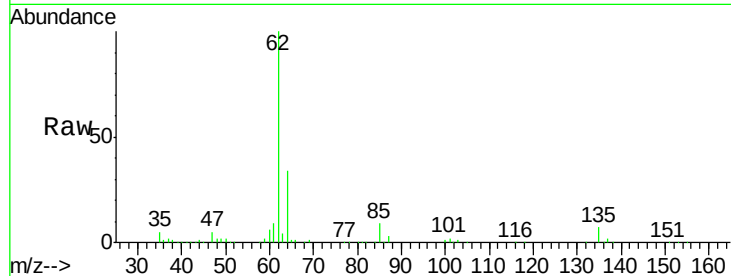
64 33.7 26.9 40.3

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

500000

400000

300000

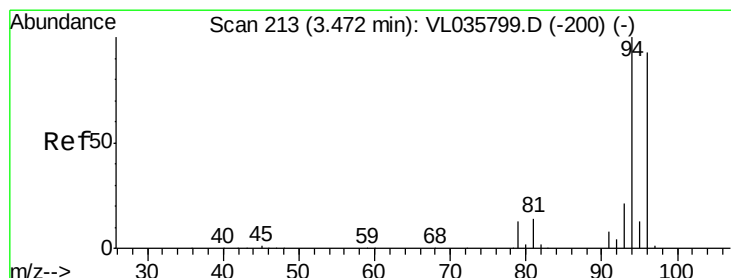
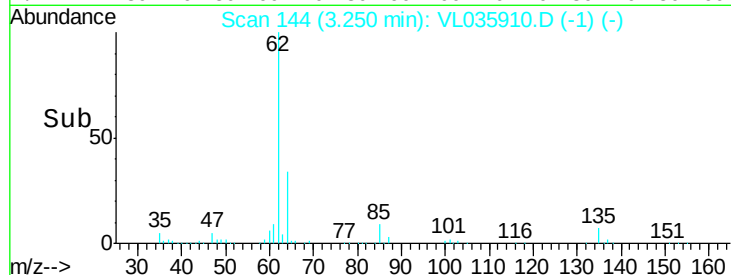
200000

100000

0

3.20 3.25 3.30 3.35

Time-->



#6

Bromomethane

Concen: 9.560 ppbv

RT: 3.47 min Scan# 212

Delta R.T. -0.00 min

Lab File: VL035910.D

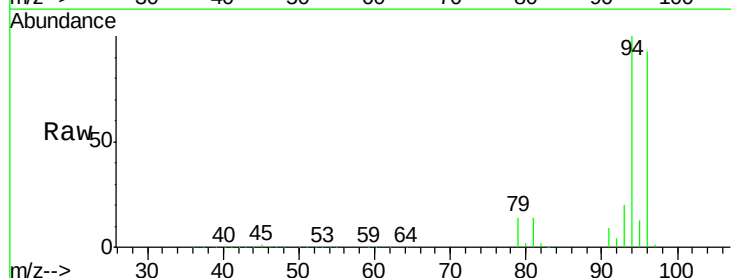
Acq: 12 Nov 2020 11:51

Tgt Ion: 94 Resp: 639978

Ion Ratio Lower Upper

94 100

96 93.1 74.6 111.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

300000

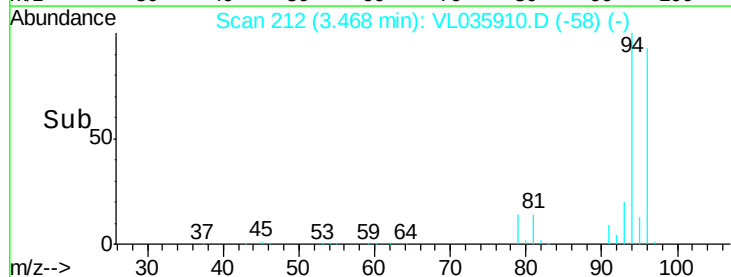
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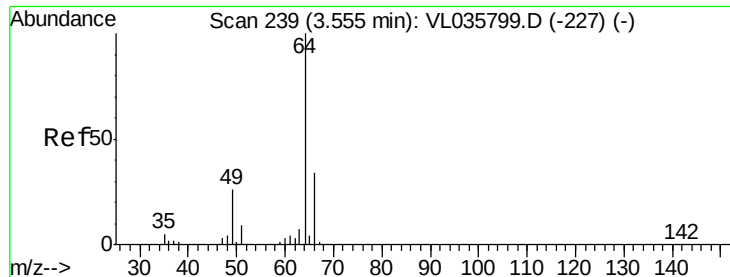
100000

0

3.40 3.50 3.60

Time-->





#7

Chloroethane

Concen: 9.850 ppbv

RT: 3.55 min Scan# 238

Delta R.T. -0.00 min

Lab File: VL035910.D

Acq: 12 Nov 2020 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1112ABS01

Tot Ion: 64 Resp: 288550

Ion Ratio Lower Upper

64 100

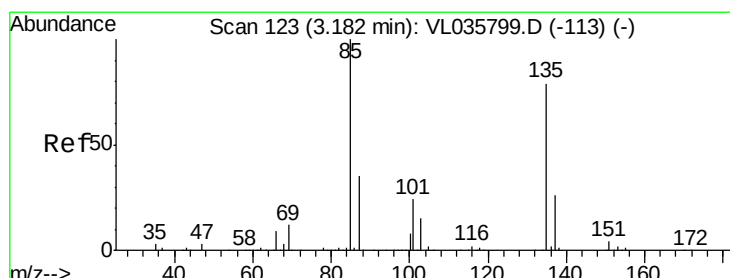
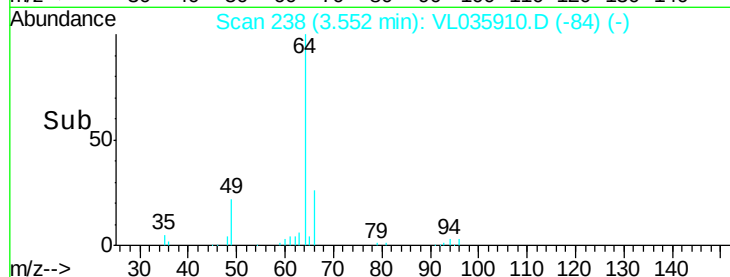
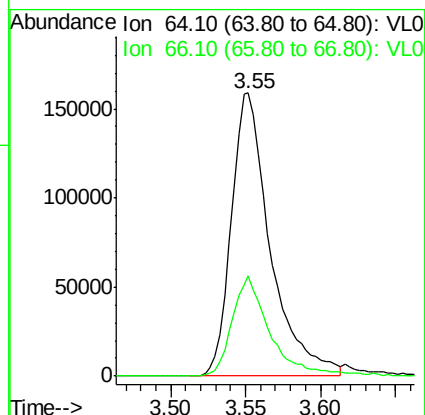
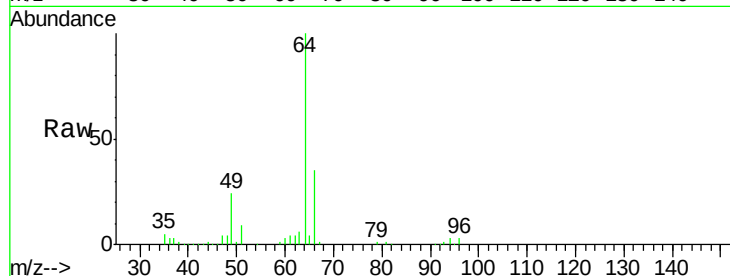
66 35.2 27.0 40.6

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 9.284 ppbv

RT: 3.18 min Scan# 123

Delta R.T. -0.00 min

Lab File: VL035910.D

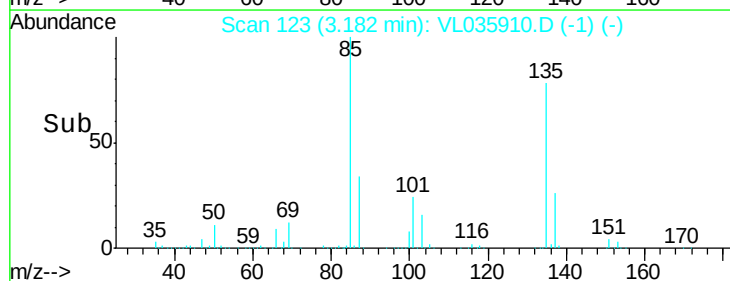
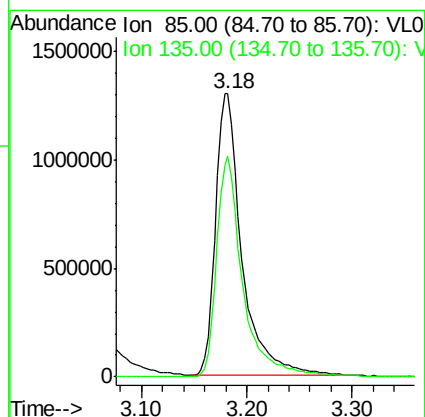
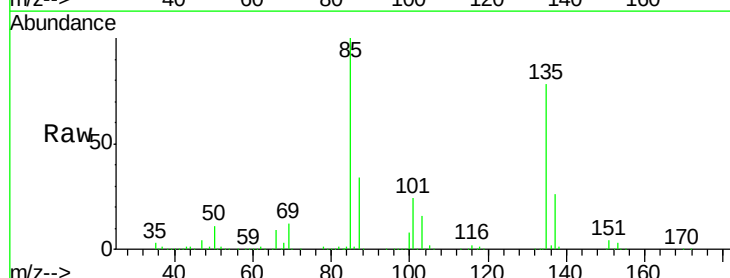
Acq: 12 Nov 2020 11:51

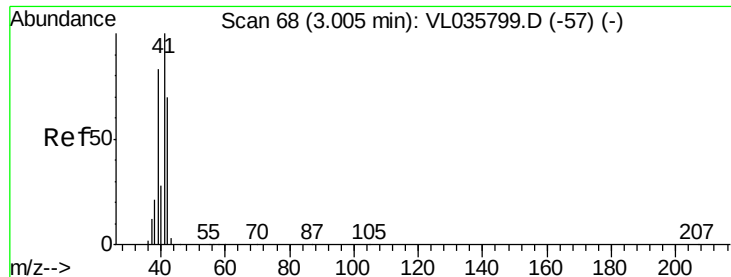
Tgt Ion: 85 Resp: 2245164

Ion Ratio Lower Upper

85 100

135 78.4 64.6 96.8





#9

Propene

Concen: 9.273 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.00 min

Lab File: VL035910.D

Acq: 12 Nov 2020 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1112ABS01

Tot Ion: 41 Resp: 456216

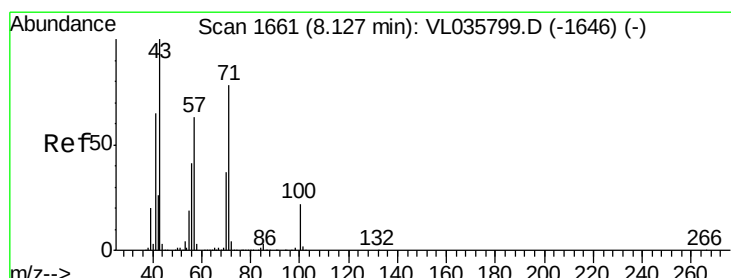
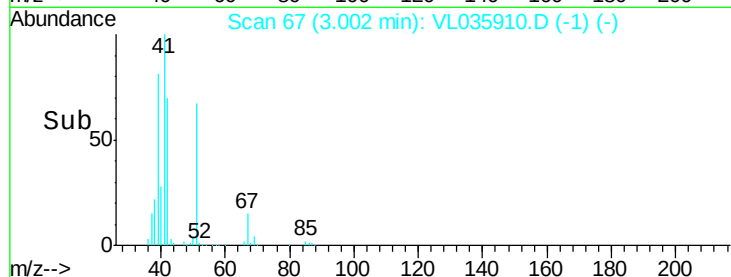
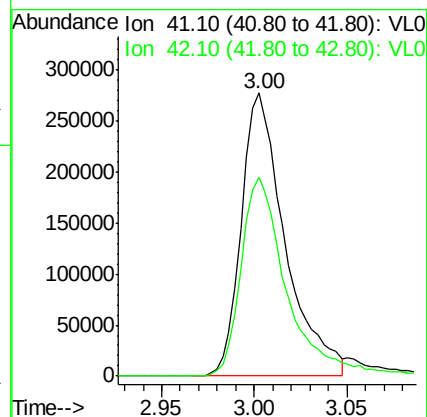
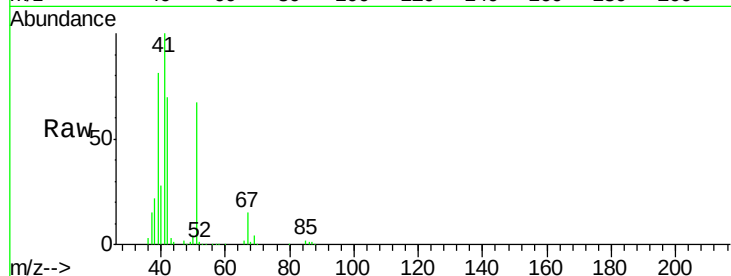
Ion Ratio Lower Upper

41 100

42 74.4 56.2 84.4

Manual Integrations
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#10

Heptane

Concen: 10.320 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VL035910.D

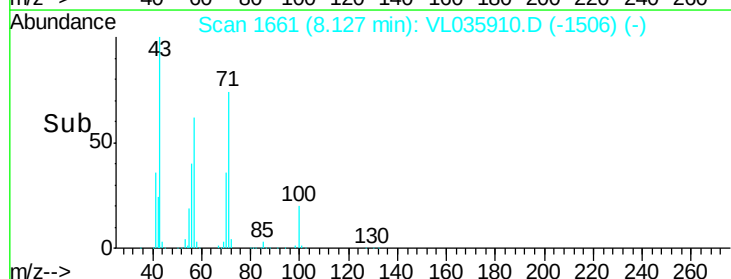
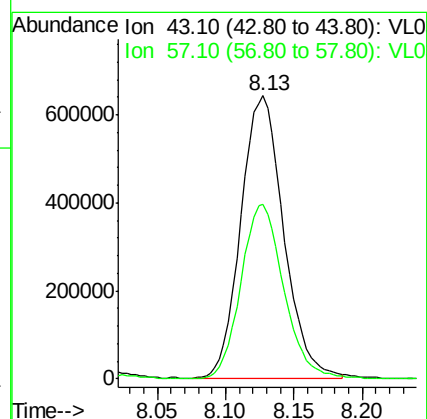
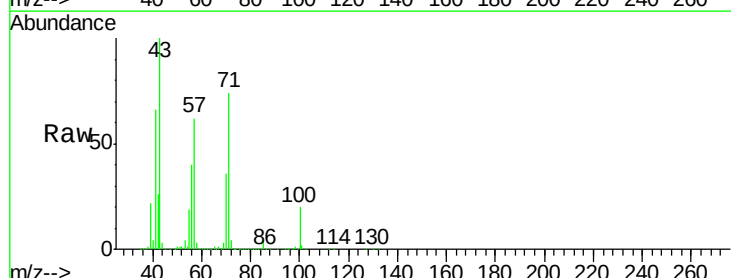
Acq: 12 Nov 2020 11:51

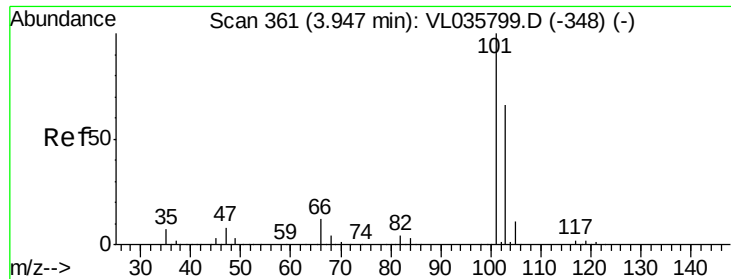
Tgt Ion: 43 Resp: 1402324

Ion Ratio Lower Upper

43 100

57 61.7 50.0 75.0





#11

Trichlorofluoromethane

Concen: 10.055 ppbv

RT: 3.94 min Scan# 360

Delta R.T. -0.00 min

Lab File: VL035910.D

Acq: 12 Nov 2020 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1112ABS01

Tot Ion:101 Resp: 2668020

Ion Ratio Lower Upper

101 100

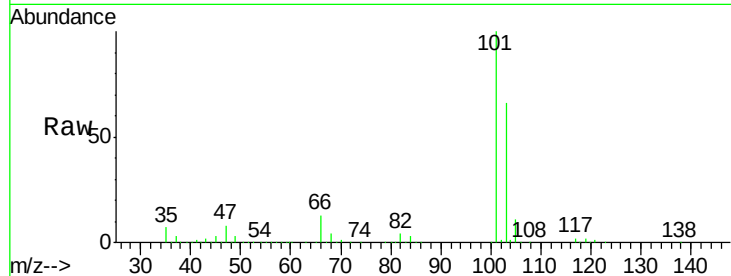
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Manual Integrations

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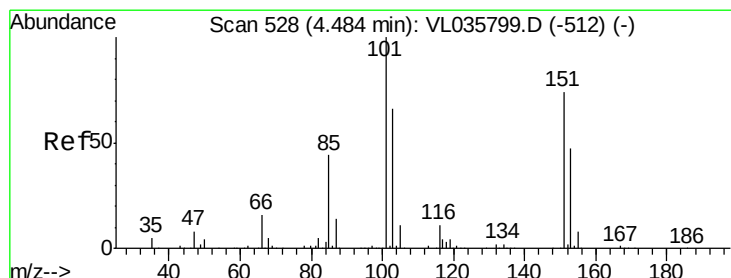
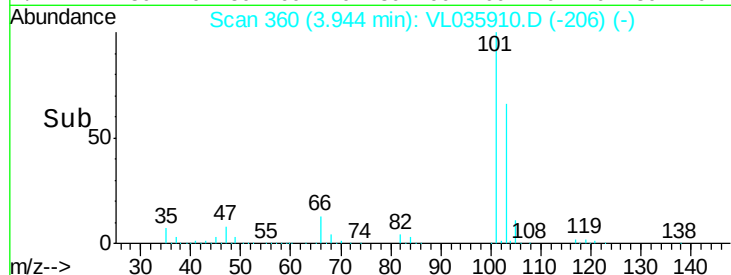
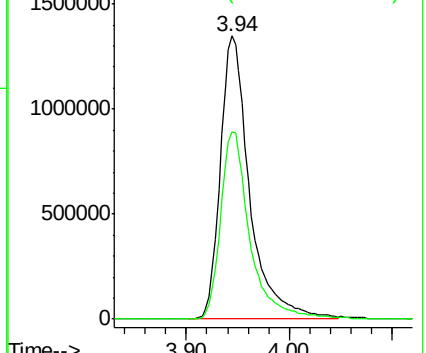
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.906 ppbv

RT: 4.48 min Scan# 527

Delta R.T. -0.00 min

Lab File: VL035910.D

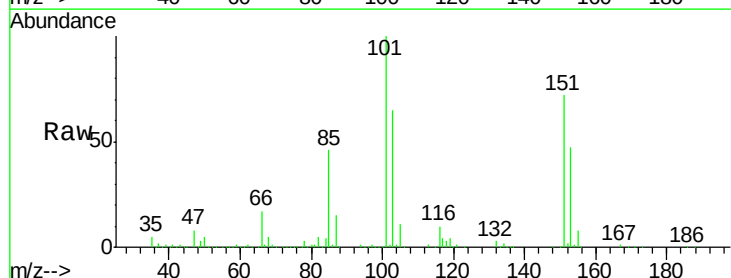
Acq: 12 Nov 2020 11:51

Tgt Ion:101 Resp: 1956922

Ion Ratio Lower Upper

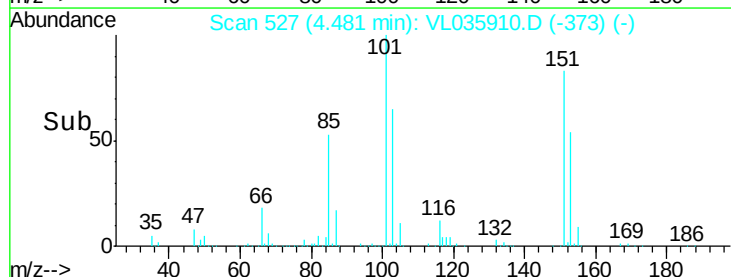
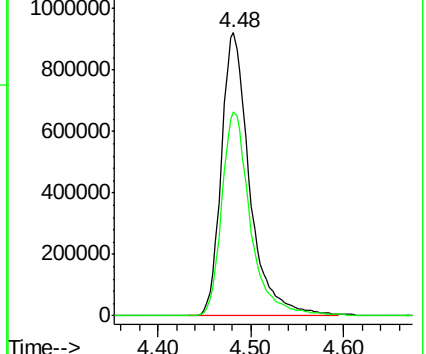
101 100

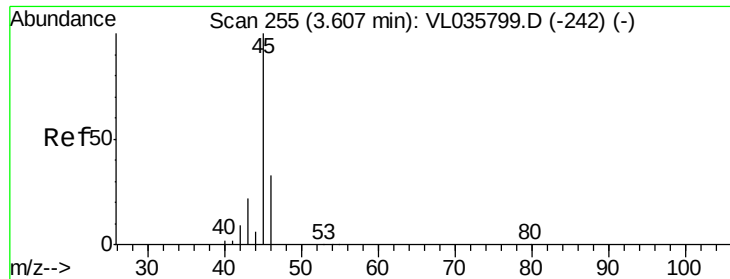
151 73.3 58.9 88.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





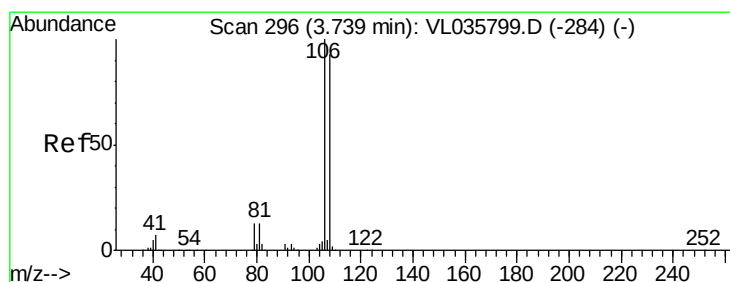
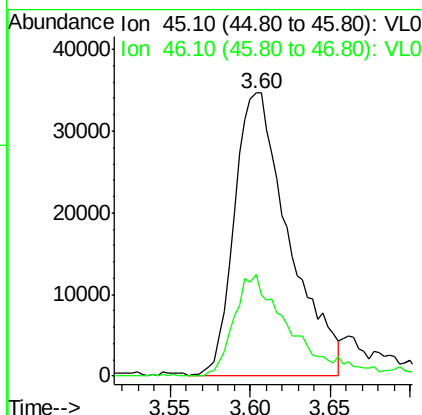
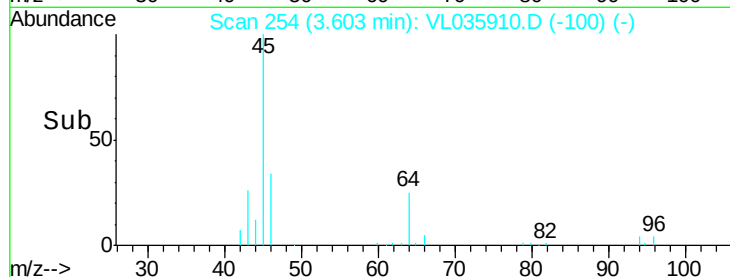
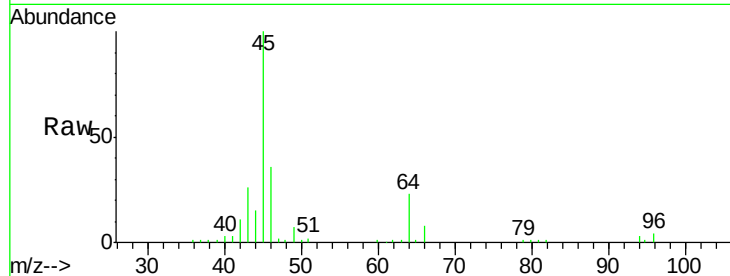
#13
Ethanol
Concen: 7.602 ppbv
RT: 3.60 min Scan# 254
Delta R.T. -0.00 min
Lab File: VL035910.D
Acq: 12 Nov 2020 11:51

Instrument :
MSVOA_L
ClientSampleId :
VL1112ABS01

Tot Ion: 45 Resp: 81133
Ion Ratio Lower Upper
45 100
46 37.0 16.1 64.5

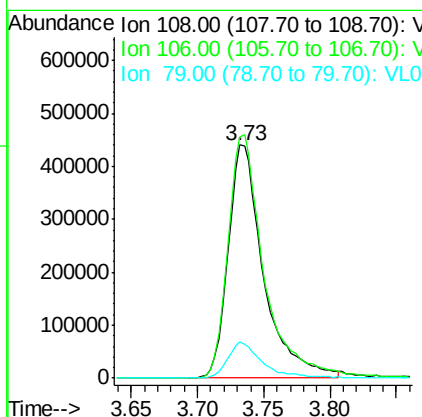
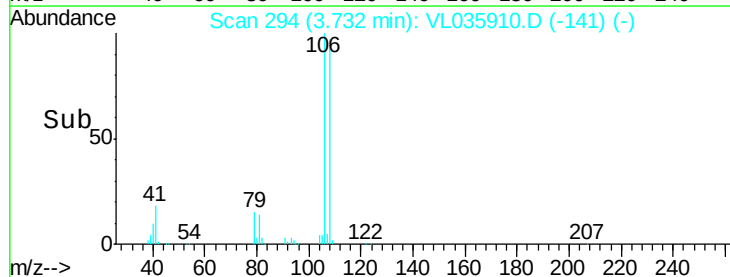
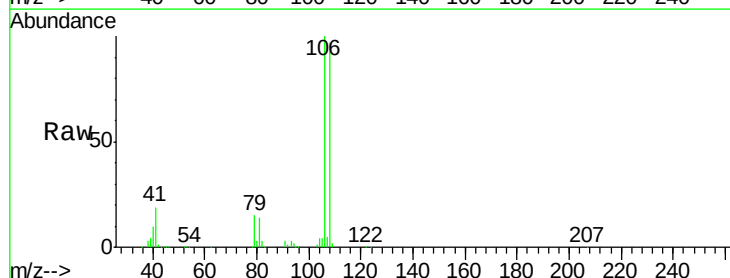
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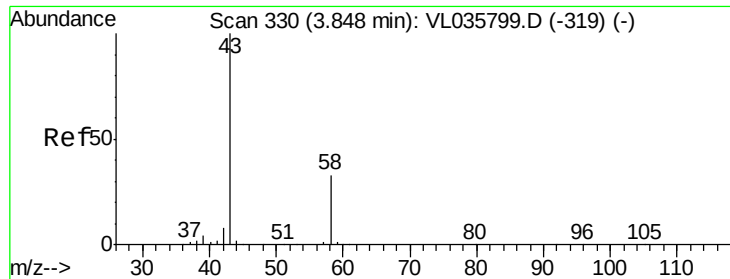
MMDadoda
11/16/2020 2:28:00 PM



#14
Bromoethene
Concen: 9.003 ppbv
RT: 3.73 min Scan# 294
Delta R.T. -0.01 min
Lab File: VL035910.D
Acq: 12 Nov 2020 11:51

Tgt Ion: 108 Resp: 818545
Ion Ratio Lower Upper
108 100
106 107.4 85.3 127.9
79 15.8 11.6 17.4





#15

Acetone

Concen: 9.372 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.00 min

Lab File: VL035910.D

Acq: 12 Nov 2020 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1112ABS01

Tot Ion: 43 Resp: 1124612

Ion Ratio Lower Upper

43 100

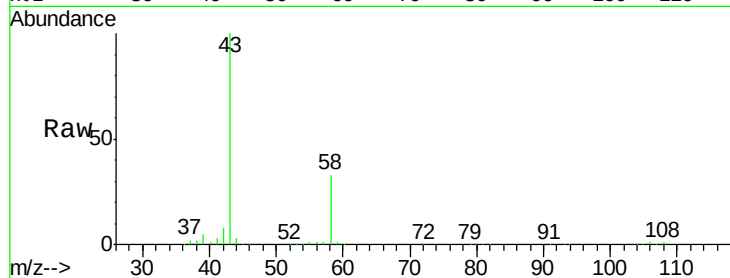
58 33.6 27.5 41.3

Manual Integrations

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.84

600000

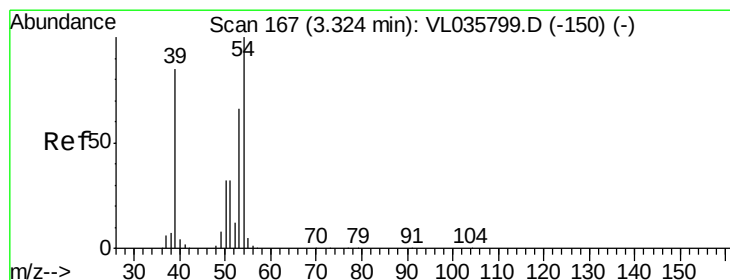
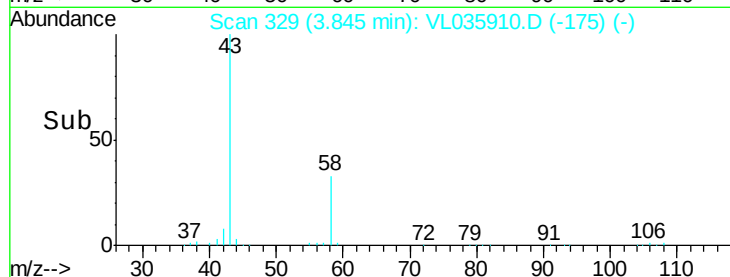
400000

200000

0

3.75 3.80 3.85 3.90 3.95

Time-->



#16

1,3-Butadiene

Concen: 9.927 ppbv

RT: 3.32 min Scan# 166

Delta R.T. -0.00 min

Lab File: VL035910.D

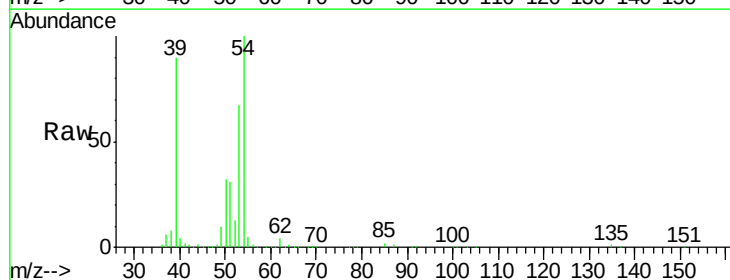
Acq: 12 Nov 2020 11:51

Tgt Ion: 39 Resp: 512845

Ion Ratio Lower Upper

39 100

54 105.6 87.1 130.7



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.32

300000

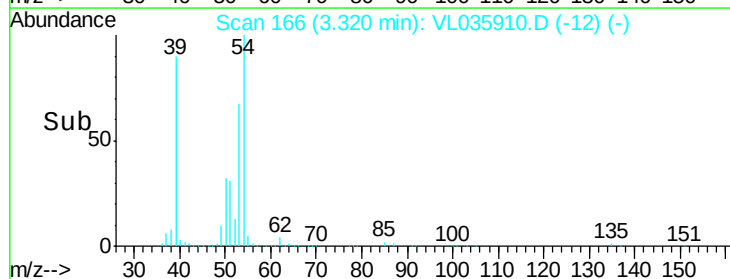
200000

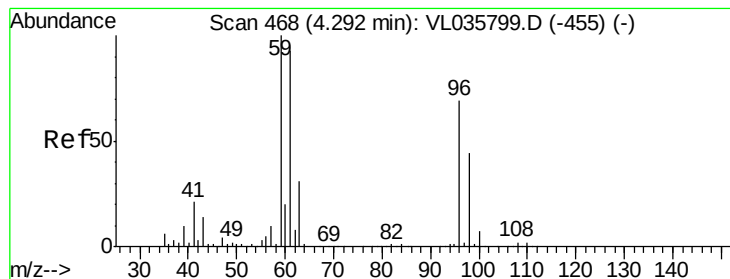
100000

0

3.20 3.30 3.40

Time-->





#17

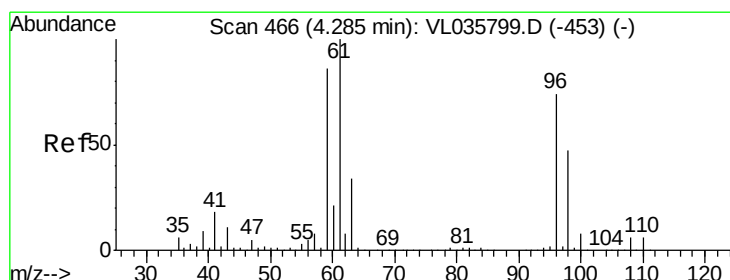
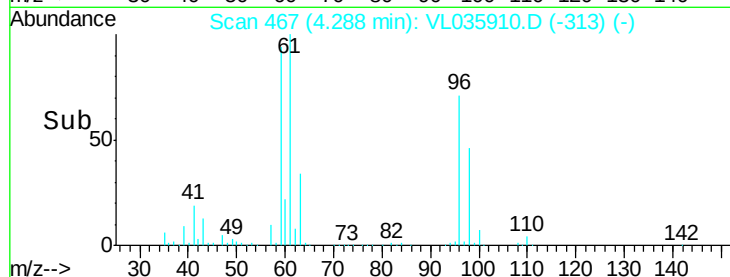
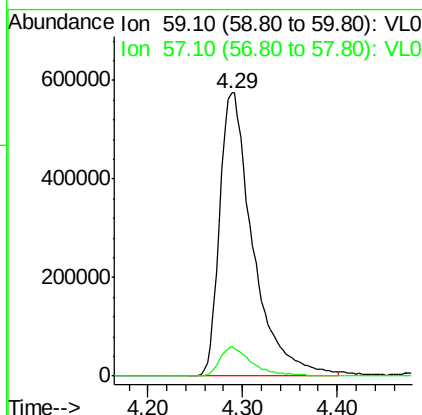
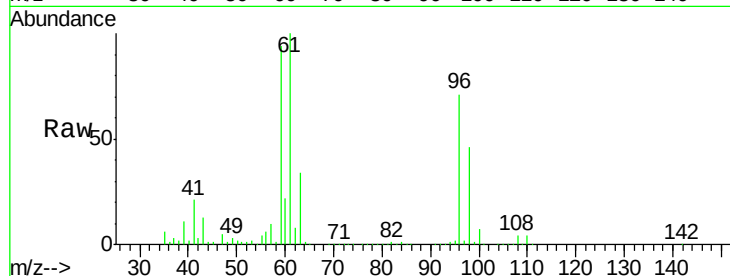
tert-Butyl alcohol
Concen: 8.846 ppbv
RT: 4.29 min Scan# 467
Delta R.T. -0.00 min
Lab File: VL035910.D
Acq: 12 Nov 2020 11:51

Instrument :
MSVOA_L
ClientSampleId :
VL1112ABS01

Tot Ion: 59 Resp: 1406824
Ion Ratio Lower Upper
59 100
57 10.4 8.2 12.4

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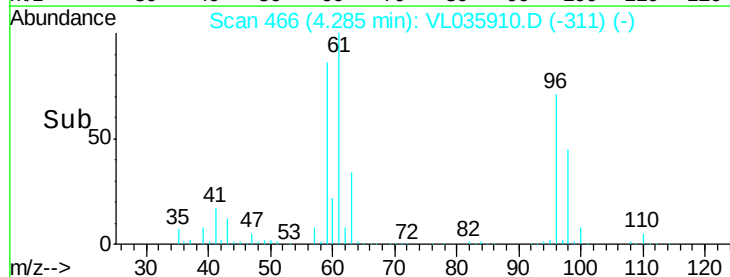
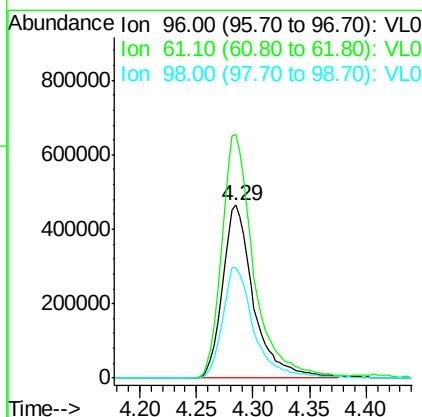
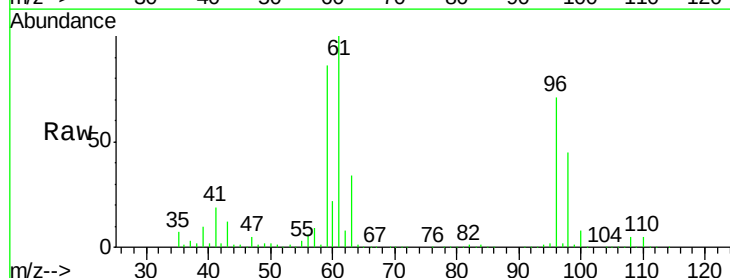
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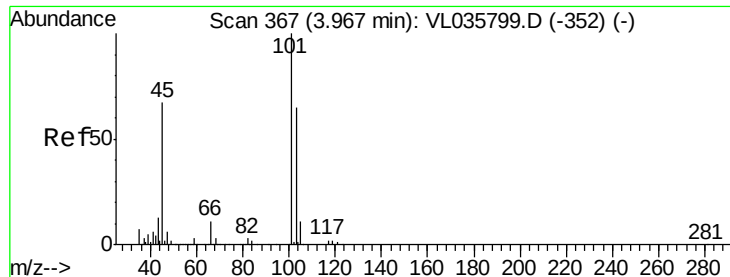


#18

1,1-Dichloroethene
Concen: 9.772 ppbv
RT: 4.29 min Scan# 466
Delta R.T. -0.00 min
Lab File: VL035910.D
Acq: 12 Nov 2020 11:51

Tgt Ion: 96 Resp: 886415
Ion Ratio Lower Upper
96 100
61 140.6 108.5 162.7
98 63.7 50.7 76.1





#19

Isopropyl Alcohol

Concen: 8.437 ppbv

RT: 3.97 min Scan# 367

Delta R.T. -0.00 min

Lab File: VL035910.D

Acq: 12 Nov 2020 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1112ABS01

Tot Ion: 45 Resp: 622128

Ion Ratio Lower Upper

45 100

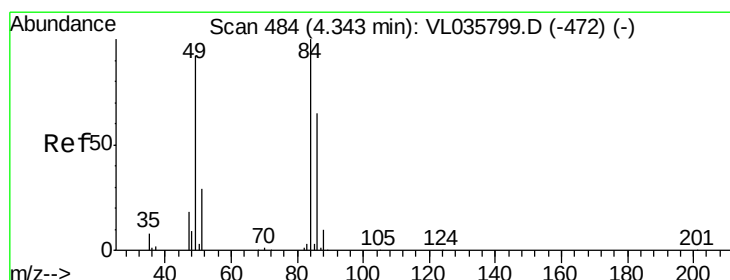
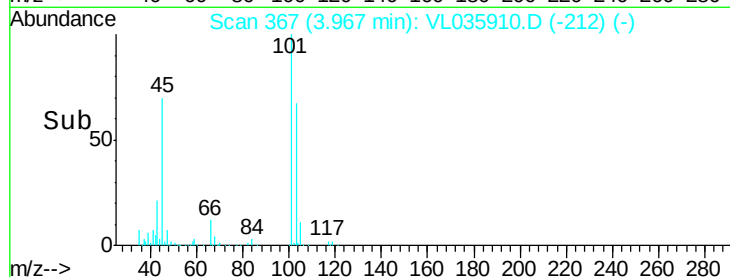
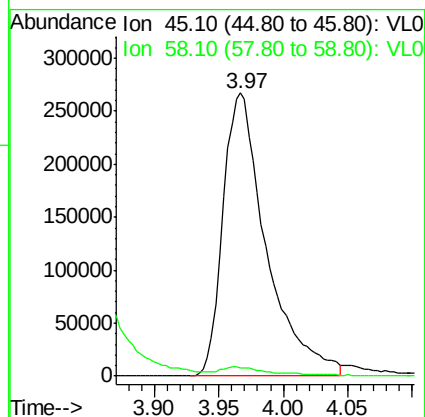
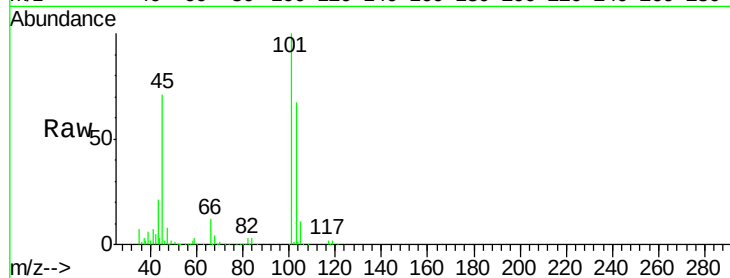
58 4.1 2.6 3.8#

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#20

Methylene Chloride

Concen: 8.420 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.00 min

Lab File: VL035910.D

Acq: 12 Nov 2020 11:51

Tgt Ion: 84 Resp: 711262

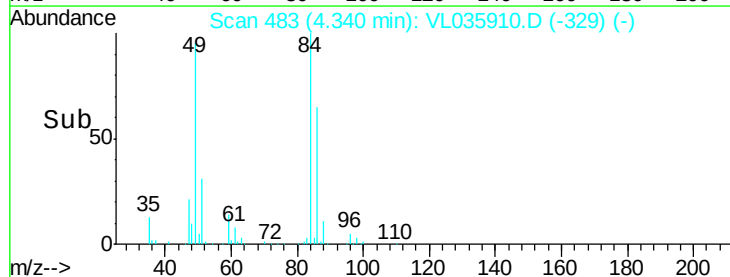
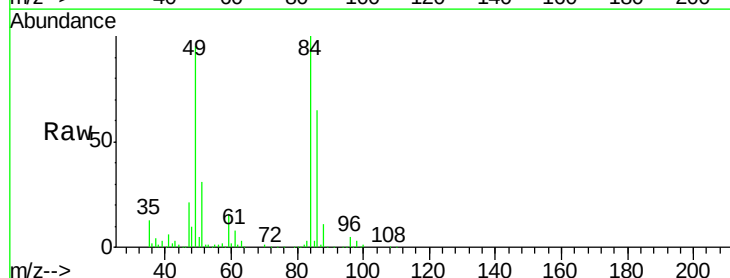
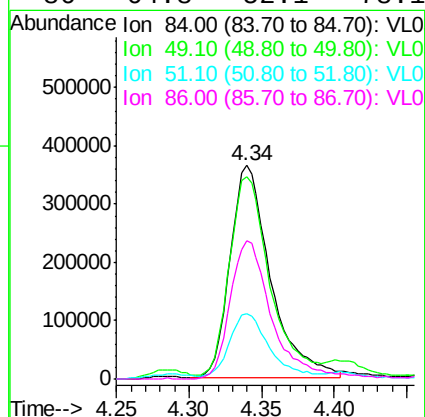
Ion Ratio Lower Upper

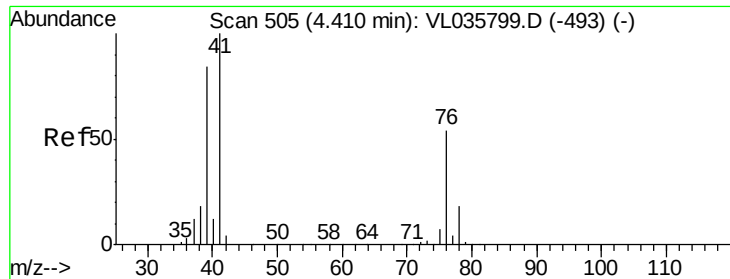
84 100

49 93.3 73.8 110.8

51 29.3 23.0 34.4

86 64.8 52.1 78.1





#21

Allvl Chloride

Concen: 9.808 ppbv

RT: 4.41 min Scan# 504

Delta R.T. -0.00 min

Lab File: VL035910.D

Acq: 12 Nov 2020 11:51

Instrument :

MSVOA_L

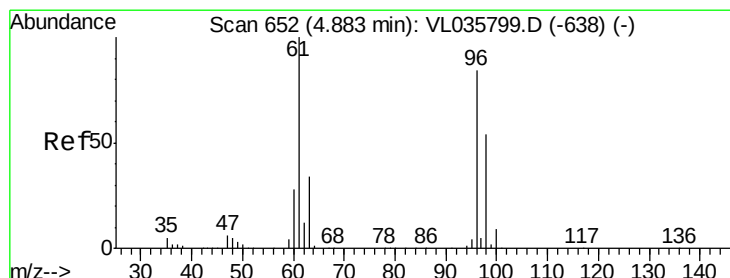
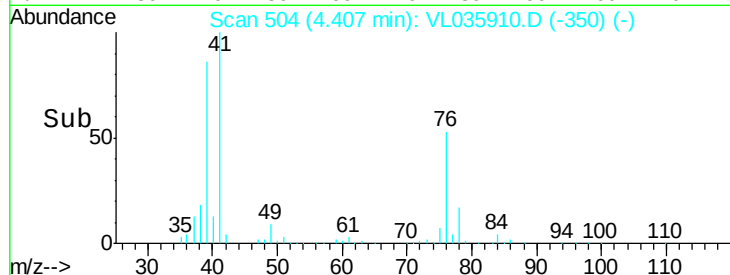
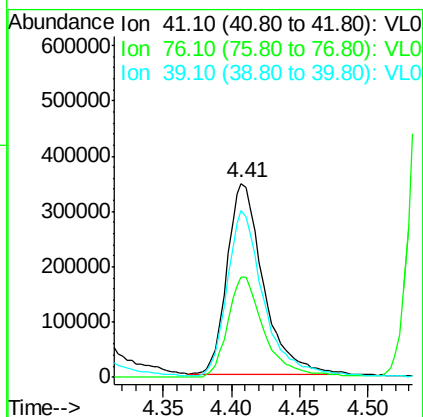
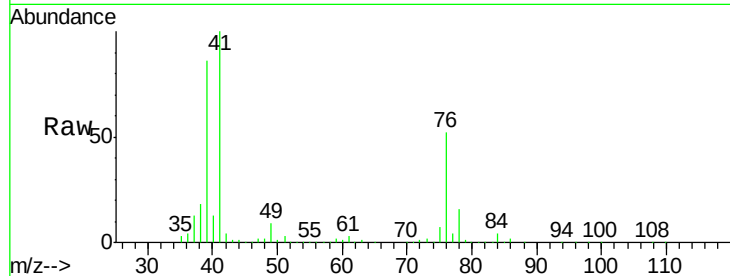
ClientSampleId :

VL1112ABS01

Tot Ion:	41	Resp:	636458
Ion	Ratio	Lower	Upper
41	100		
76	53.6	42.6	63.8
39	88.9	67.0	100.4

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#22

trans-1,2-Dichloroethene

Concen: 9.953 ppbv

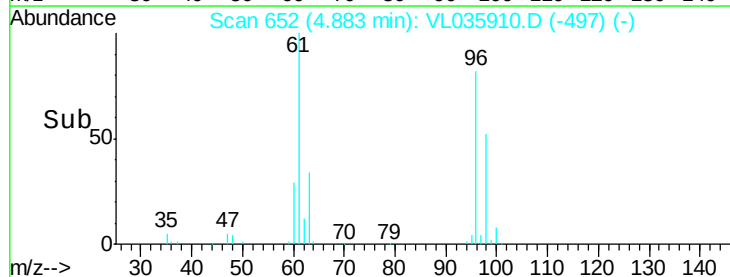
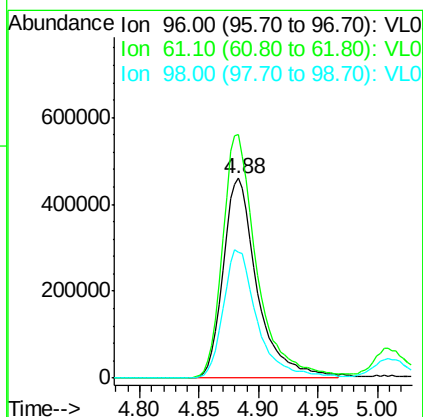
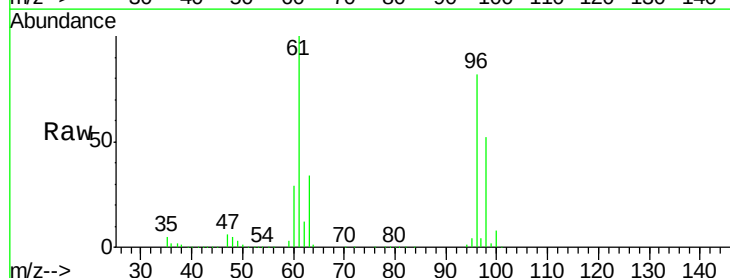
RT: 4.88 min Scan# 652

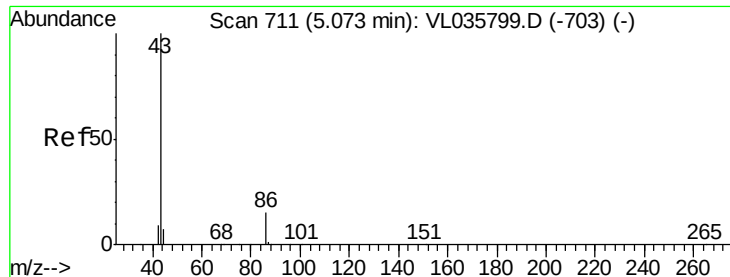
Delta R.T. -0.00 min

Lab File: VL035910.D

Acq: 12 Nov 2020 11:51

Tgt Ion:	96	Resp:	915203
Ion	Ratio	Lower	Upper
96	100		
61	121.8	95.4	143.0
98	63.1	51.8	77.6





#23

Vinyl Acetate

Concen: 9.364 ppbv

RT: 5.07 min Scan# 711

Delta R.T. -0.00 min

Lab File: VL035910.D

Acq: 12 Nov 2020 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1112ABS01

Tot Ion: 43 Resp: 1575072

Ion Ratio Lower Upper

43 100

86 11.7 9.8 14.6

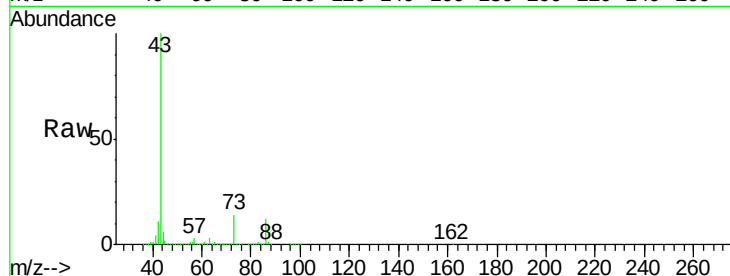
42 10.5 8.1 12.1

44 5.8 4.2 6.4

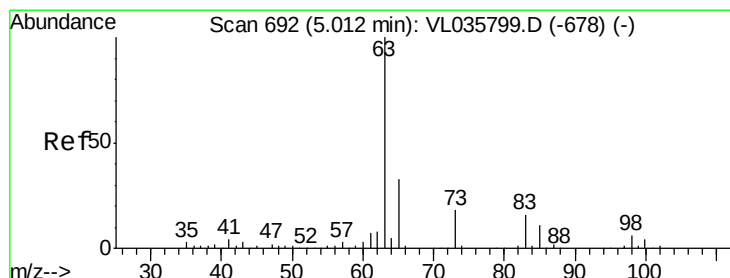
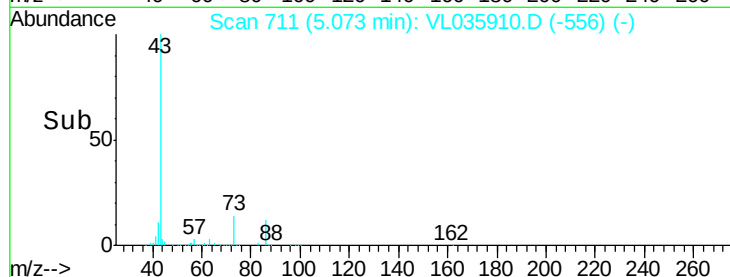
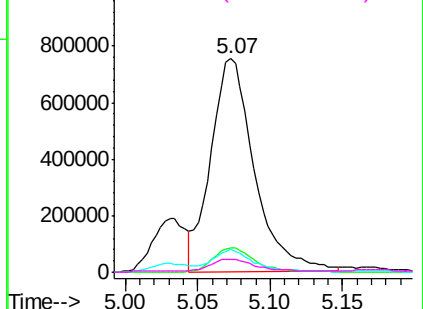
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.770 ppbv

RT: 5.01 min Scan# 691

Delta R.T. -0.00 min

Lab File: VL035910.D

Acq: 12 Nov 2020 11:51

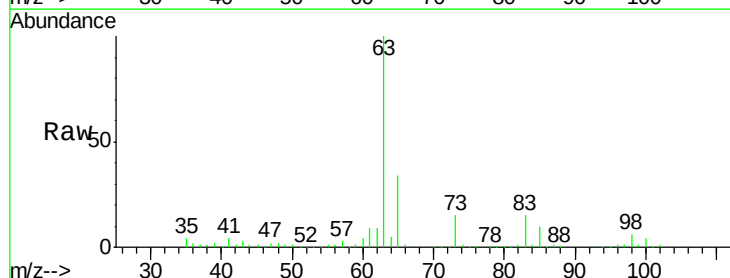
Tgt Ion: 63 Resp: 1565595

Ion Ratio Lower Upper

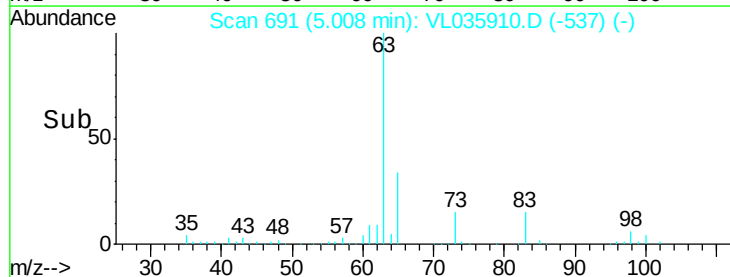
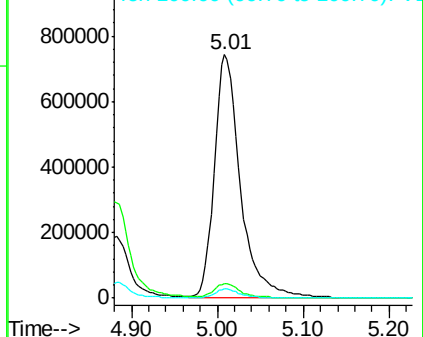
63 100

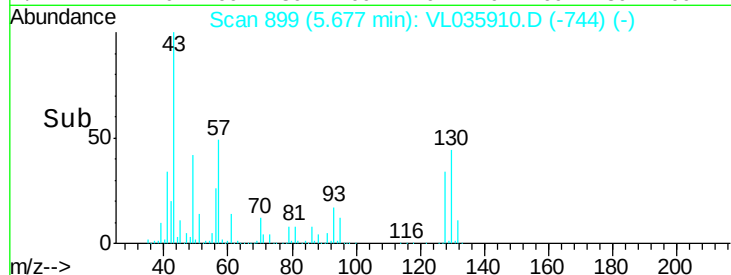
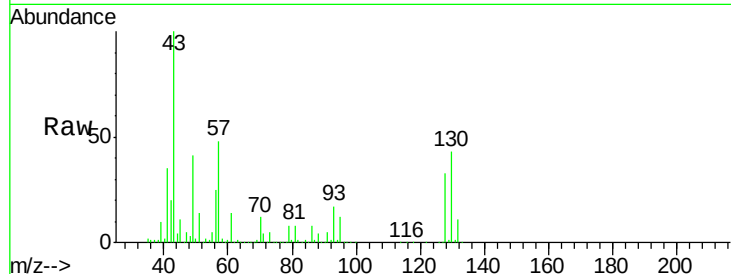
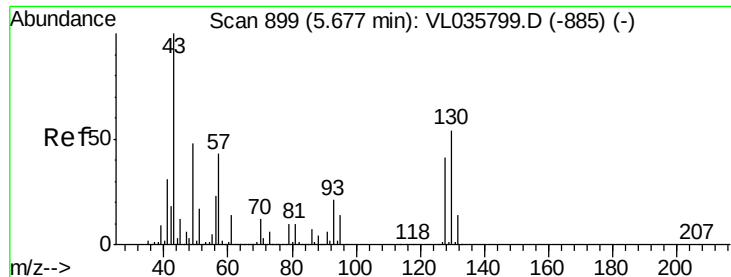
98 6.0 3.0 9.2

100 3.8 1.8 5.4



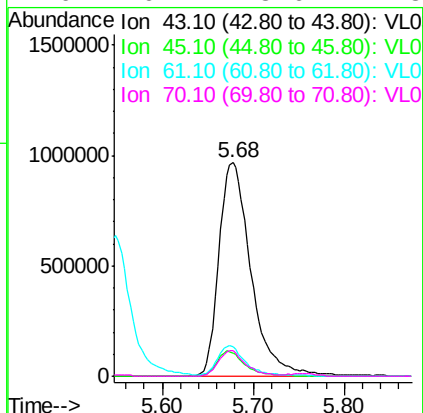
Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0





#25
Ethyl Acetate
Concen: 10.022 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.00 min
Lab File: VL035910.D
Acq: 12 Nov 2020 11:51

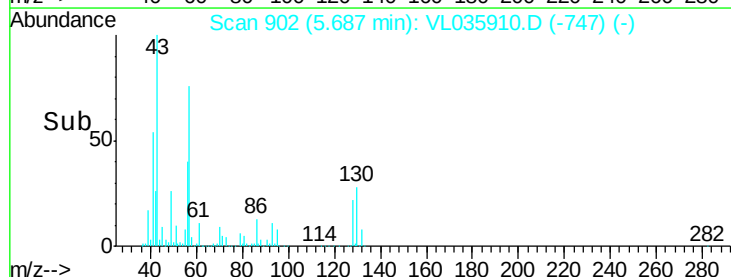
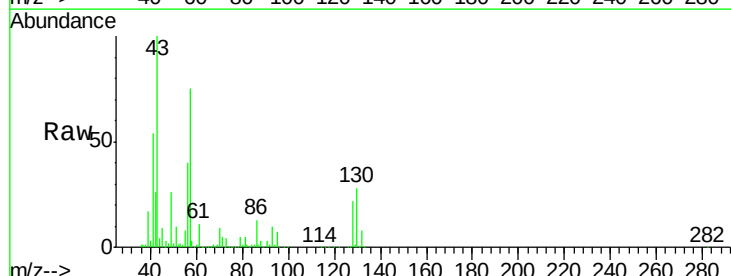
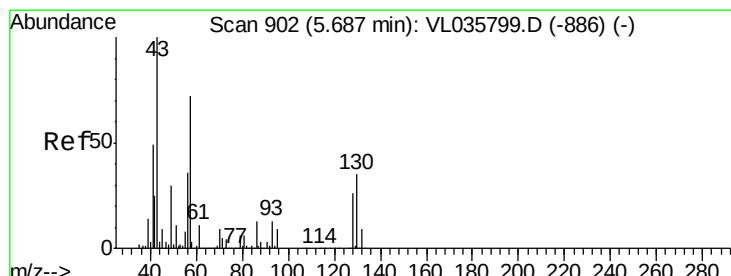
Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.5	8.5	12.7	
61	13.0	10.7	16.1	
70	10.1	8.6	12.8	



Instrument :
MSVOA_L
ClientSampleID :
VL1112ABS01

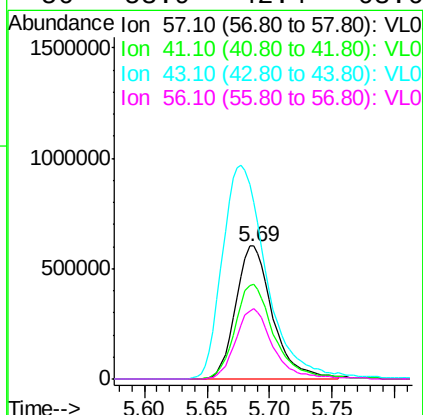
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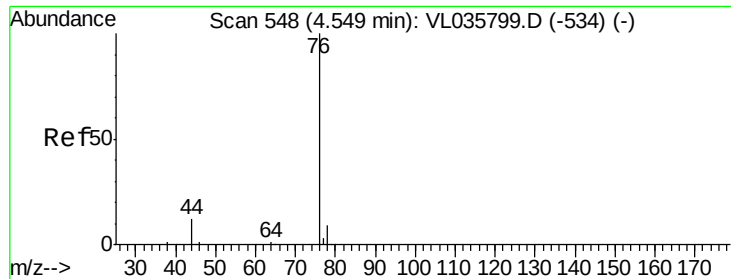
MMDadoda
11/16/2020 2:28:00 PM



#26
Hexane
Concen: 9.440 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.00 min
Lab File: VL035910.D
Acq: 12 Nov 2020 11:51

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	76.0	58.9	88.3	
43	193.6	150.2	225.2	
56	53.9	42.4	63.6	





#27

Carbon Disulfide

Concen: 9.908 ppbv

RT: 4.55 min Scan# 547

Delta R.T. -0.00 min

Lab File: VL035910.D

Acq: 12 Nov 2020 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1112ABS01

Tot Ion: 76 Resp: 1935448

Ion Ratio Lower Upper

76 100

44 12.3 9.9 14.9

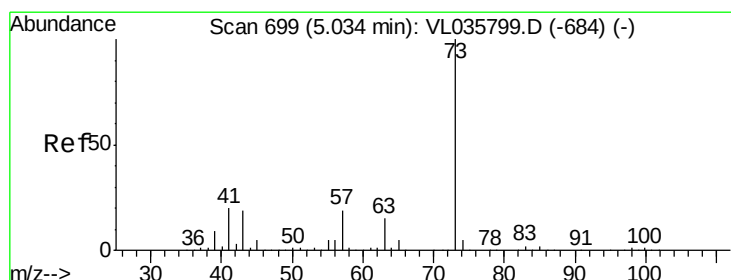
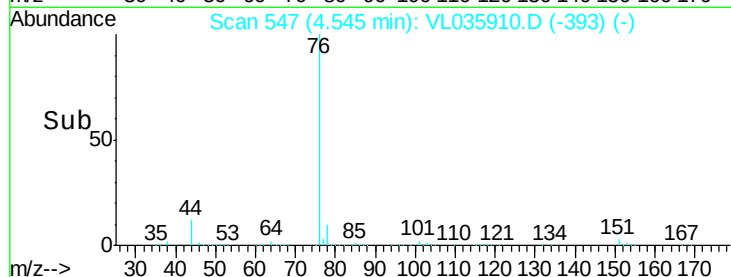
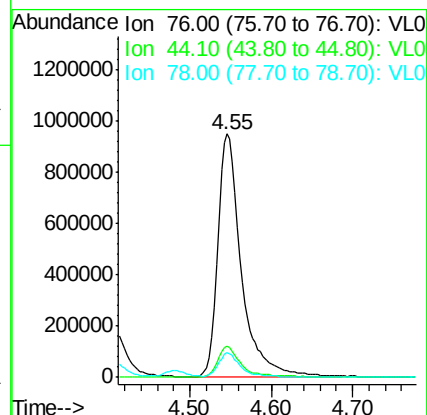
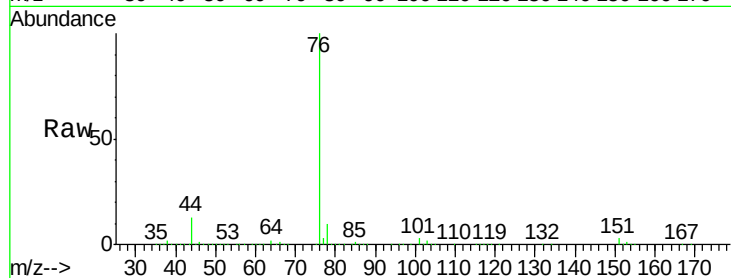
78 9.8 8.1 12.1

Manual Integrations

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#28

Methyl tert-Butyl Ether

Concen: 9.022 ppbv

RT: 5.03 min Scan# 698

Delta R.T. -0.00 min

Lab File: VL035910.D

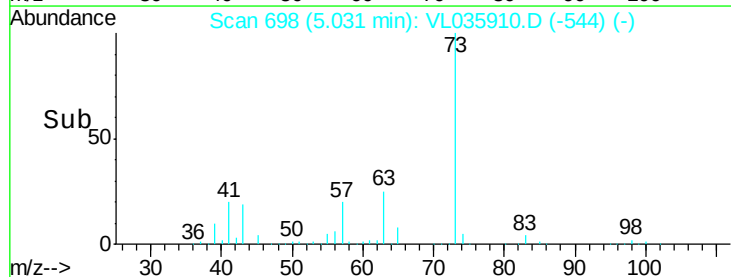
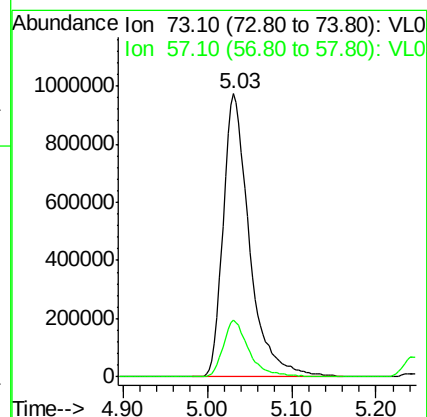
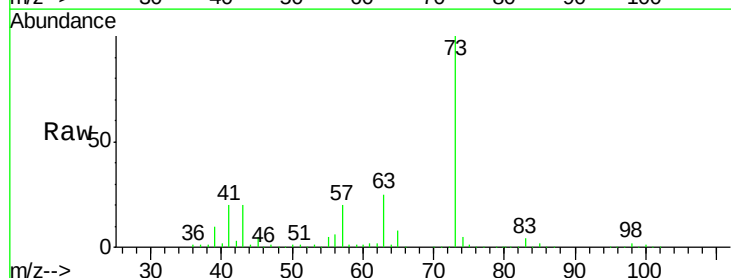
Acq: 12 Nov 2020 11:51

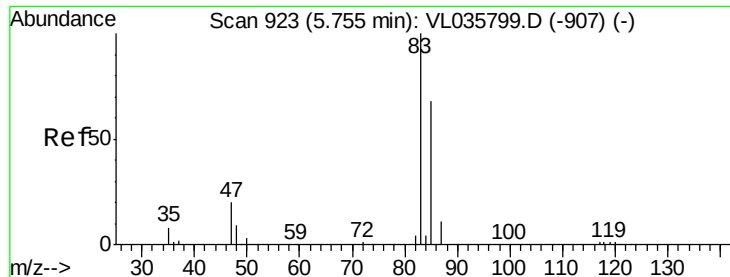
Tgt Ion: 73 Resp: 2112184

Ion Ratio Lower Upper

73 100

57 19.8 15.4 23.2





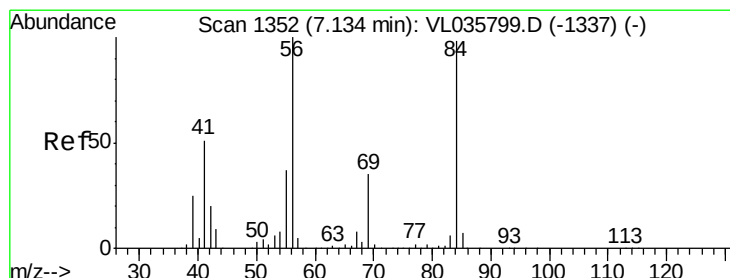
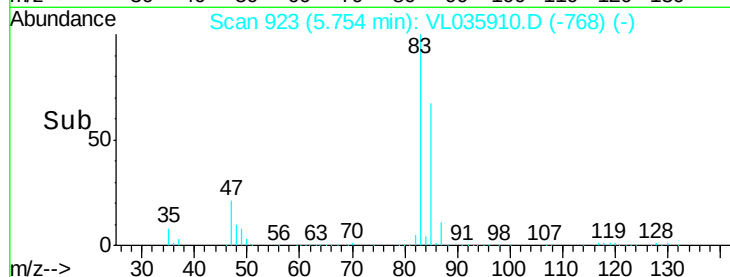
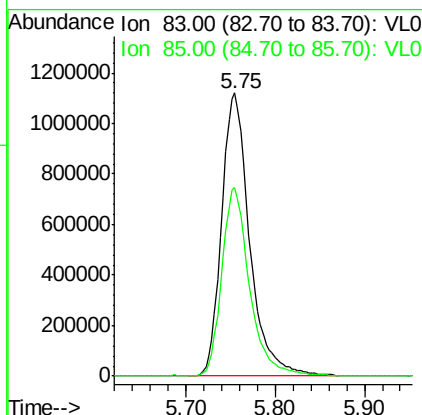
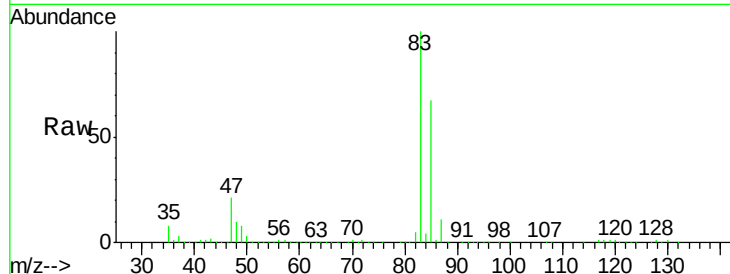
#29
Chloroform
Concen: 9.532 ppbv
RT: 5.75 min Scan# 923
Delta R.T. -0.00 min
Lab File: VL035910.D
Acq: 12 Nov 2020 11:51

Instrument :
MSVOA_L
ClientSampleId :
VL1112ABS01

Tot Ion: 83 Resp: 2442437
Ion Ratio Lower Upper
83 100
85 66.5 54.6 81.8

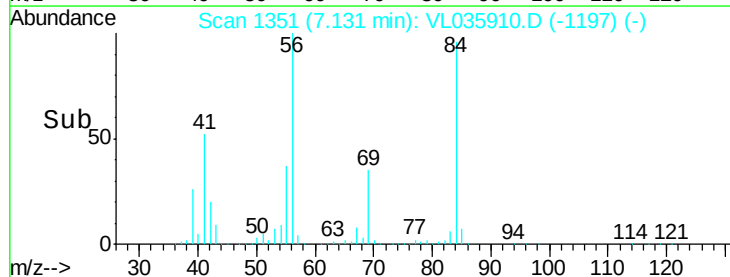
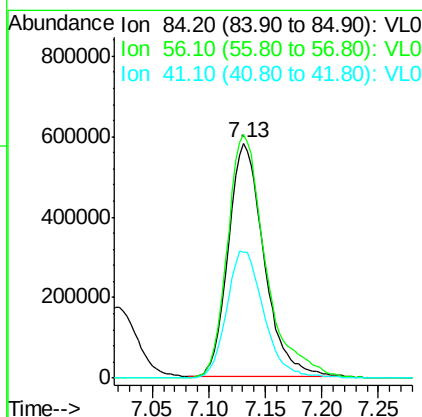
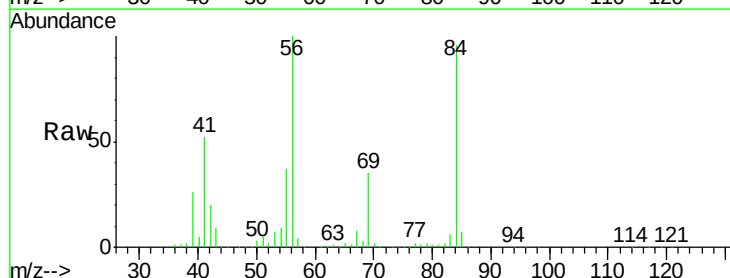
Manual Integrations
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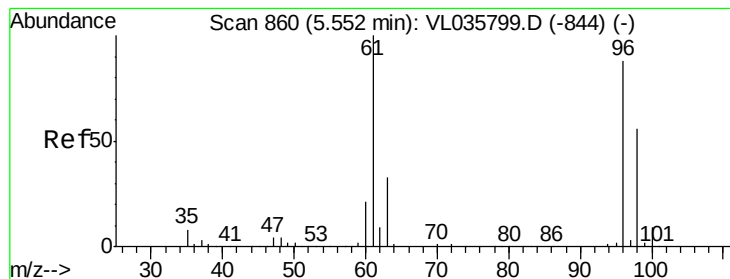
MMDadoda
11/16/2020 2:28:00 PM



#30
Cyclohexane
Concen: 9.012 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. -0.00 min
Lab File: VL035910.D
Acq: 12 Nov 2020 11:51

Tgt Ion: 84 Resp: 1279660
Ion Ratio Lower Upper
84 100
56 112.2 86.4 129.6
41 56.9 42.1 63.1





#31

cis-1,2-Dichloroethene

Concen: 9.663 ppbv

RT: 5.55 min Scan# 859

Delta R.T. -0.00 min

Lab File: VL035910.D

Acq: 12 Nov 2020 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1112ABS01

Tot Ion: 61 Resp: 1296004

Ion Ratio Lower Upper

61 100

96 80.8 70.3 105.5

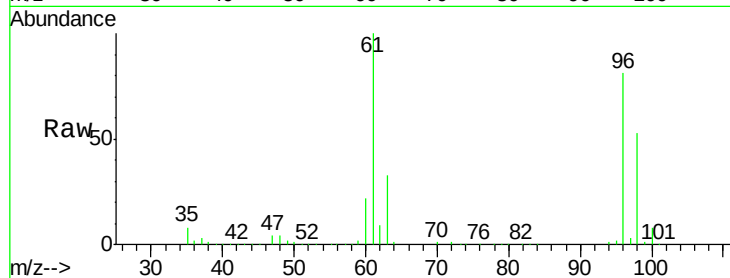
98 52.8 45.0 67.6

Manual Integrations

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MMDadoda

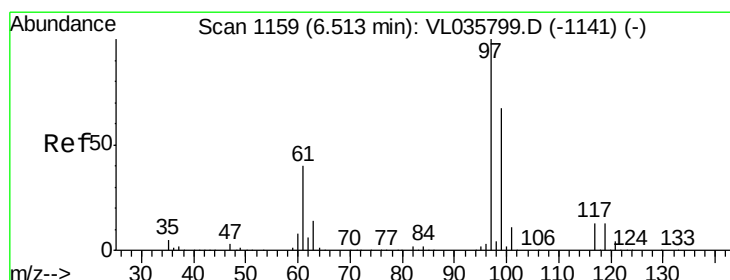
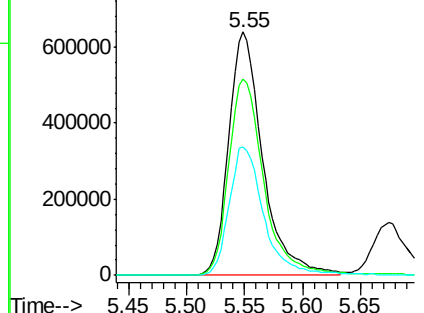
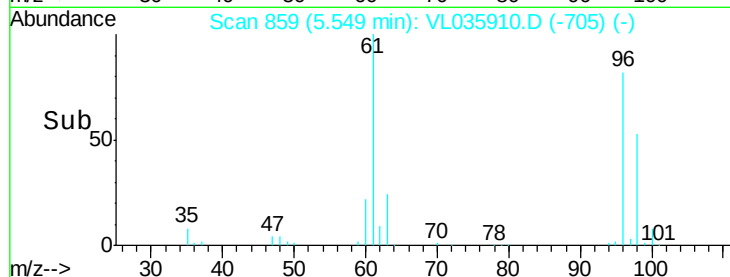
11/16/2020 2:28:00 PM



Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 8.841 ppbv

RT: 6.51 min Scan# 1159

Delta R.T. -0.00 min

Lab File: VL035910.D

Acq: 12 Nov 2020 11:51

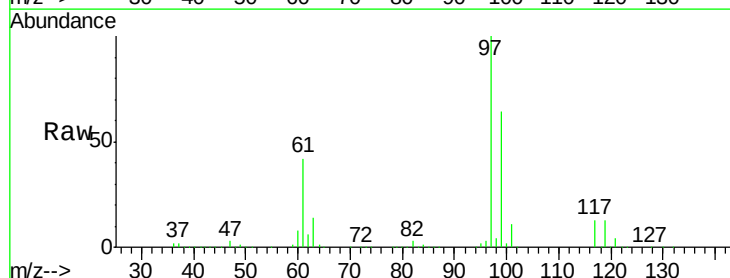
Tgt Ion: 97 Resp: 2363888

Ion Ratio Lower Upper

97 100

99 65.7 52.3 78.5

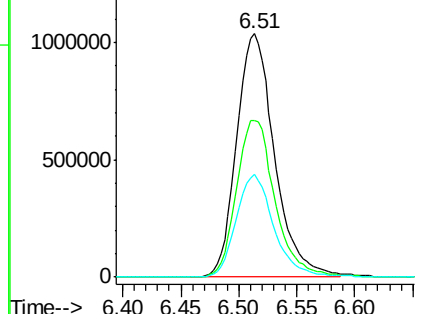
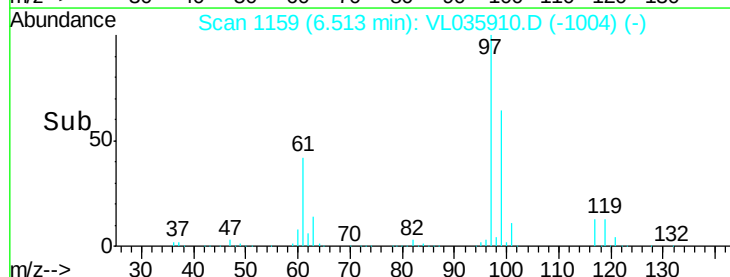
61 42.1 32.0 48.0

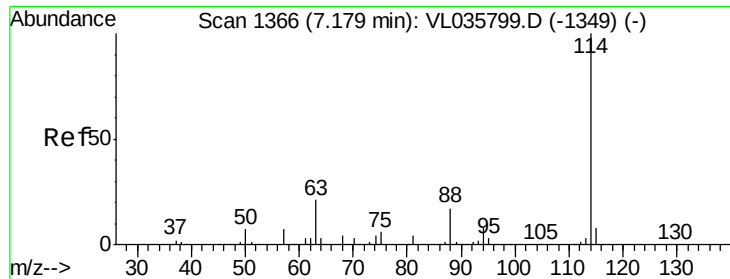


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0





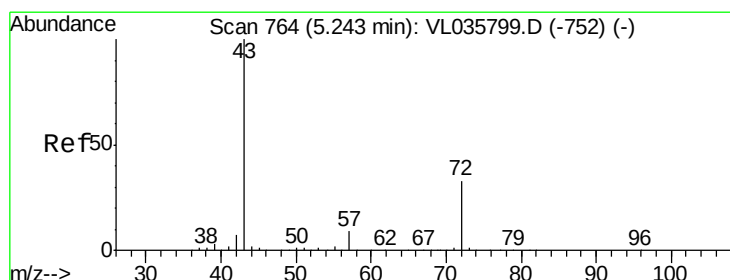
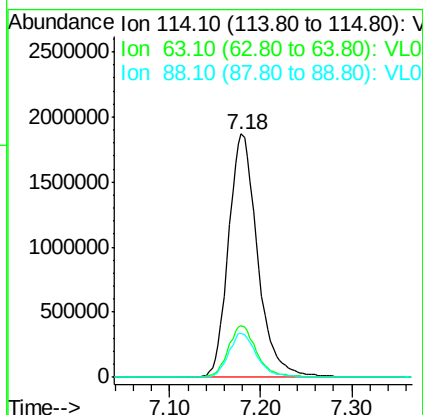
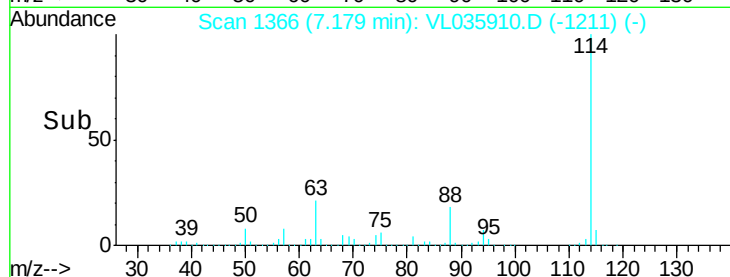
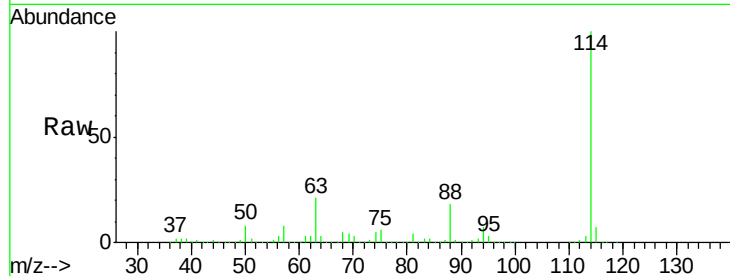
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. -0.00 min
 Lab File: VL035910.D
 Acq: 12 Nov 2020 11:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1112ABS01

Tot Ion:114 Resp: 4149480
 Ion Ratio Lower Upper
 114 100
 63 21.1 16.1 24.1
 88 17.6 13.7 20.5

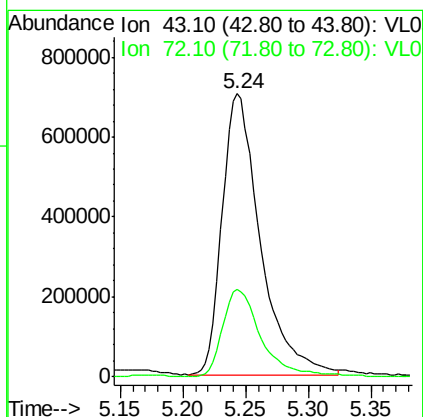
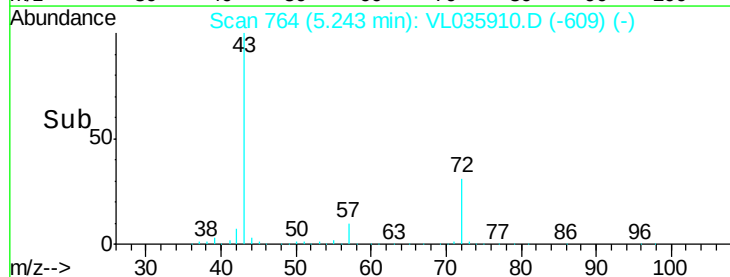
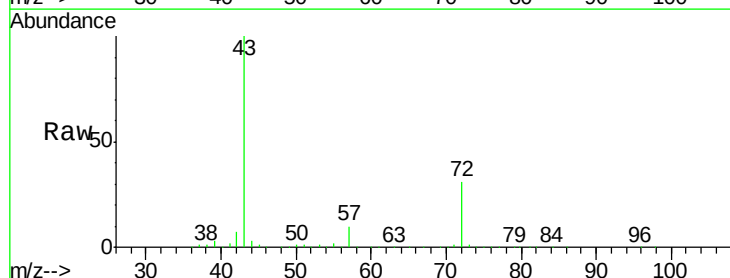
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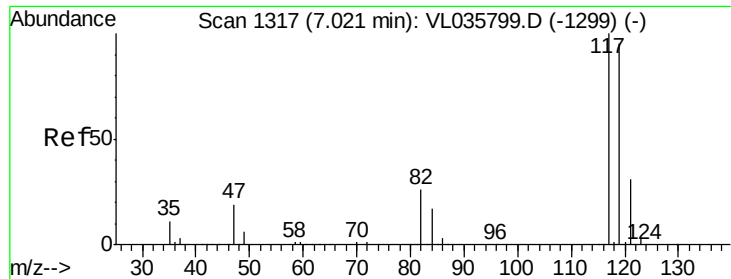
MMDadoda
 11/16/2020 2:28:00 PM



#34
 2-Butanone
 Concen: 11.061 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. -0.00 min
 Lab File: VL035910.D
 Acq: 12 Nov 2020 11:51

Tgt Ion: 43 Resp: 1489557
 Ion Ratio Lower Upper
 43 100
 72 31.6 26.5 39.7





#35

Carbon Tetrachloride

Concen: 10.762 ppbv

RT: 7.02 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VL035910.D

Acq: 12 Nov 2020 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1112ABS01

Tot Ion:117 Resp: 2386094

Ion Ratio Lower Upper

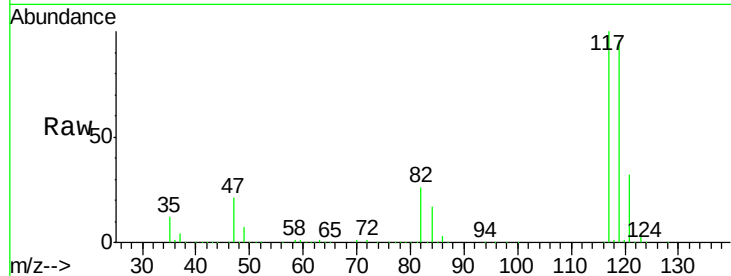
117 100

119 96.2 75.6 113.4

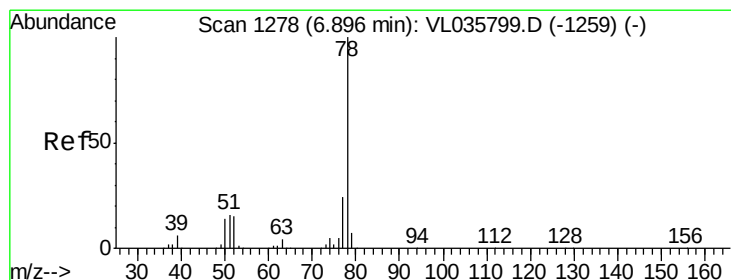
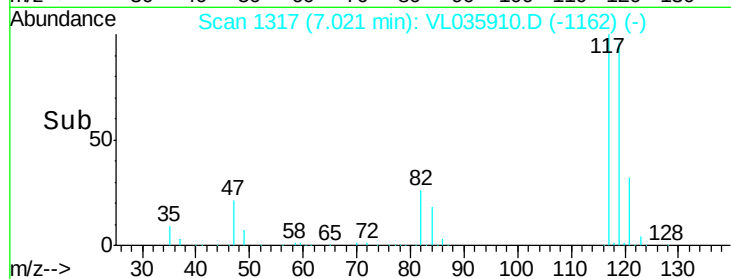
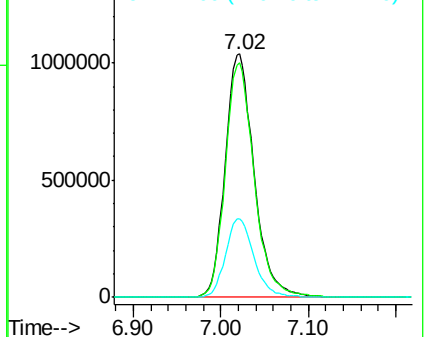
121 32.3 25.1 37.7

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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.883 ppbv

RT: 6.89 min Scan# 1277

Delta R.T. -0.00 min

Lab File: VL035910.D

Acq: 12 Nov 2020 11:51

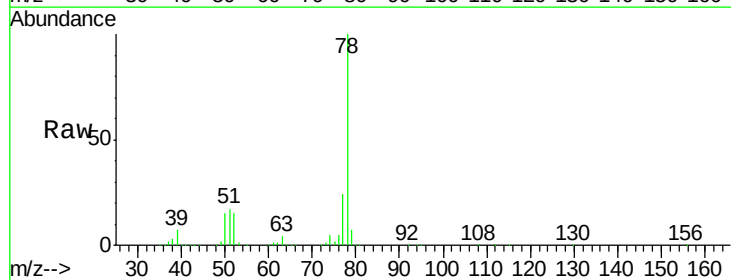
Tgt Ion: 78 Resp: 3048686

Ion Ratio Lower Upper

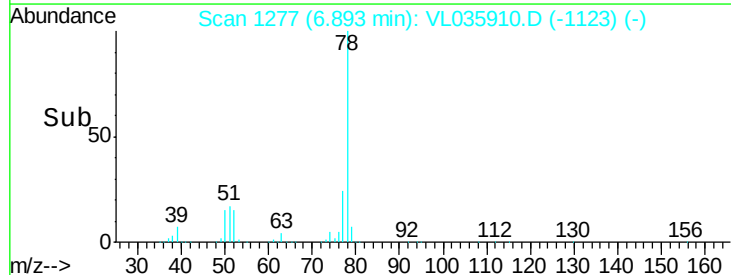
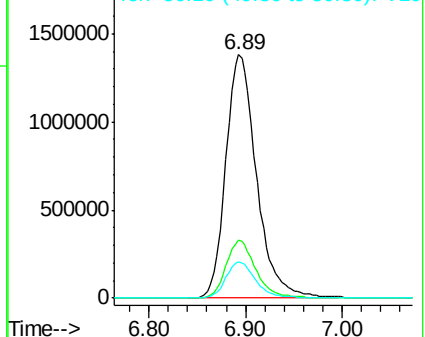
78 100

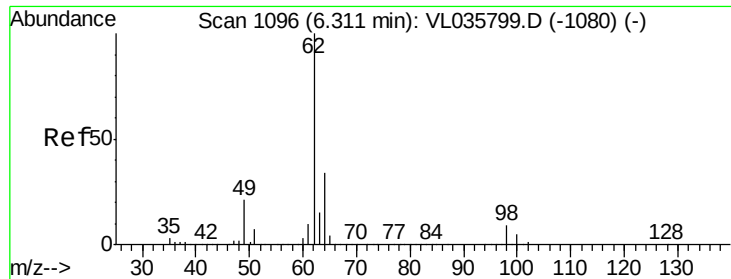
77 23.9 19.3 28.9

50 15.1 11.4 17.2



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





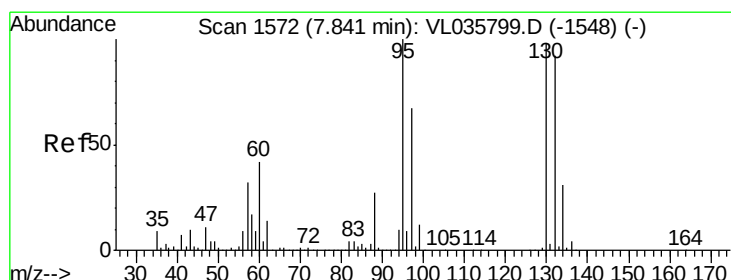
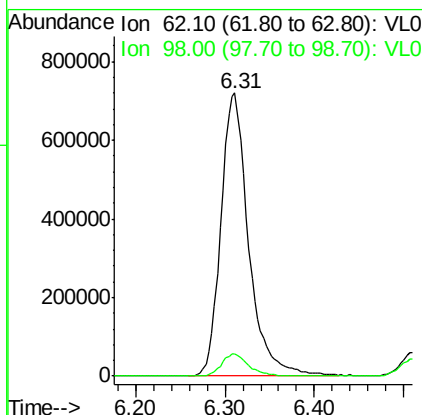
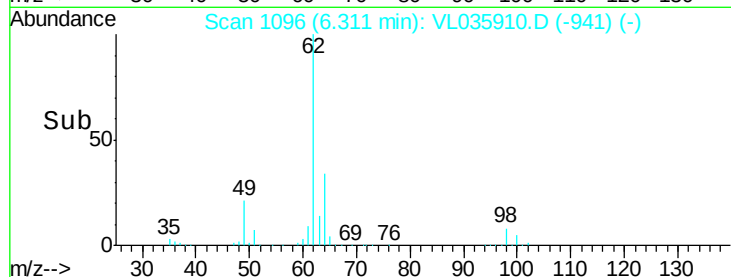
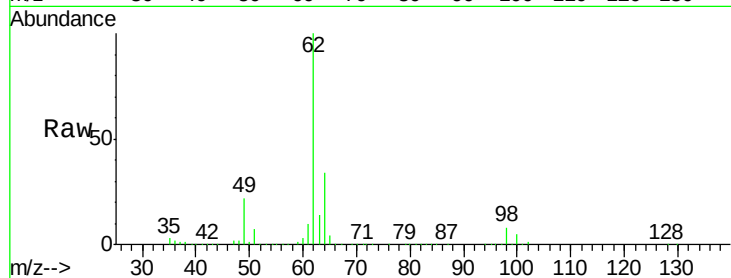
#37
 1,2-Dichloroethane
 Concen: 11.105 ppbv
 RT: 6.31 min Scan# 1096
 Delta R.T. -0.00 min
 Lab File: VL035910.D
 Acq: 12 Nov 2020 11:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1112ABS01

Tot Ion: 62 Resp: 1551920
 Ion Ratio Lower Upper
 62 100
 98 8.0 6.9 10.3

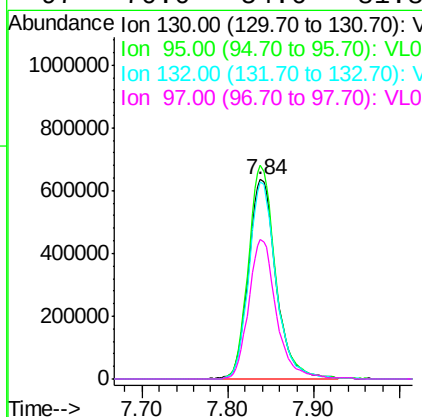
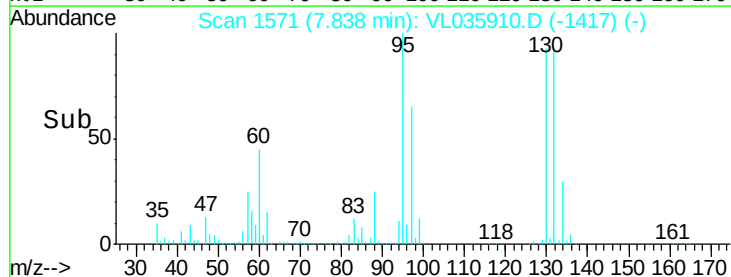
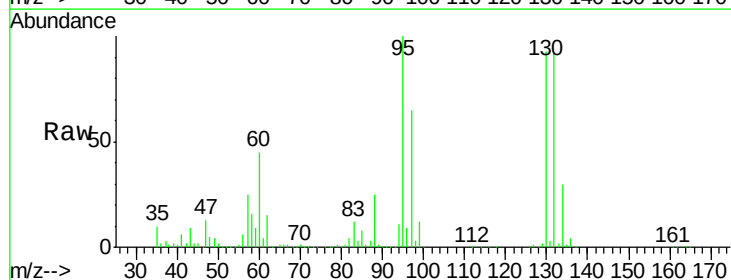
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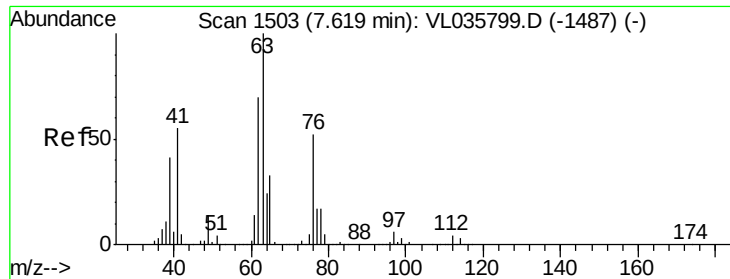
MMDadoda
 11/16/2020 2:28:00 PM



#38
 Trichloroethene
 Concen: 9.457 ppbv
 RT: 7.84 min Scan# 1571
 Delta R.T. -0.00 min
 Lab File: VL035910.D
 Acq: 12 Nov 2020 11:51

Tgt Ion:130 Resp: 1424973
 Ion Ratio Lower Upper
 130 100
 95 107.1 81.6 122.4
 132 98.8 75.1 112.7
 97 70.0 54.6 81.8





#39
 1,2-Dichloropropane
 Concen: 10.341 ppbv
 RT: 7.62 min Scan# 1502
 Delta R.T. -0.00 min
 Lab File: VL035910.D
 Acq: 12 Nov 2020 11:51

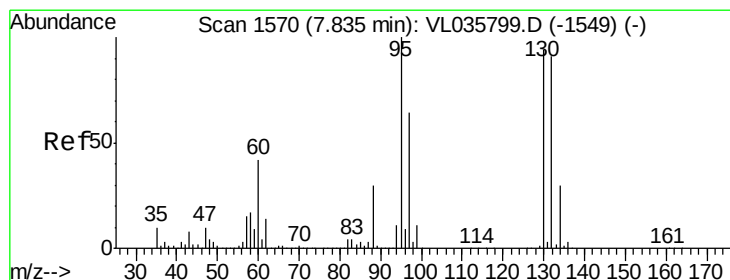
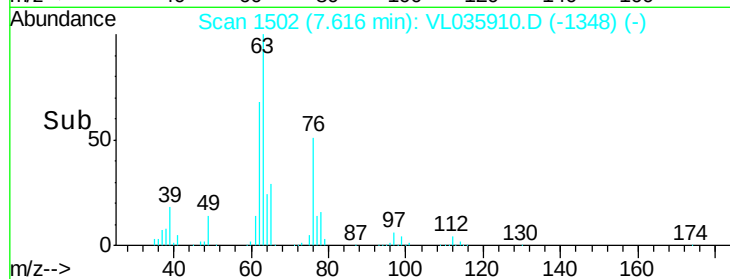
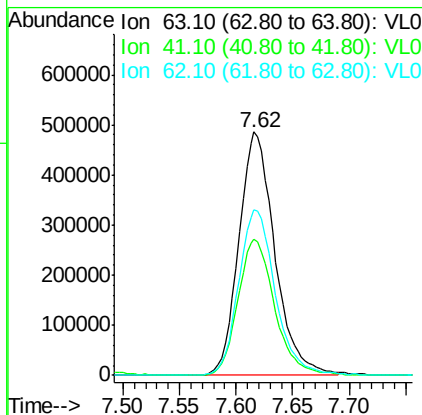
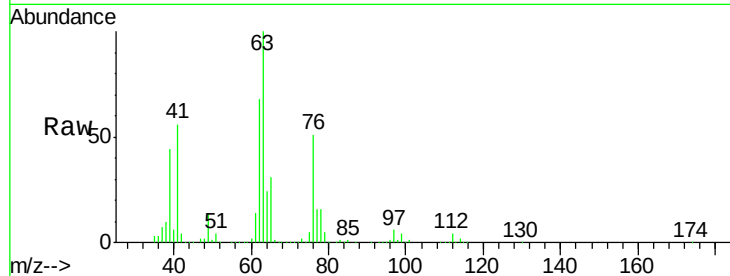
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1112ABS01

Tot Ion: 63 Resp: 1074020

Ion	Ratio	Lower	Upper
63	100		
41	55.7	43.8	65.6
62	67.8	56.2	84.2

Manual Integrations
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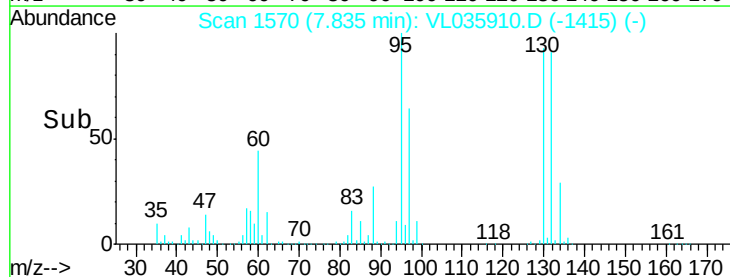
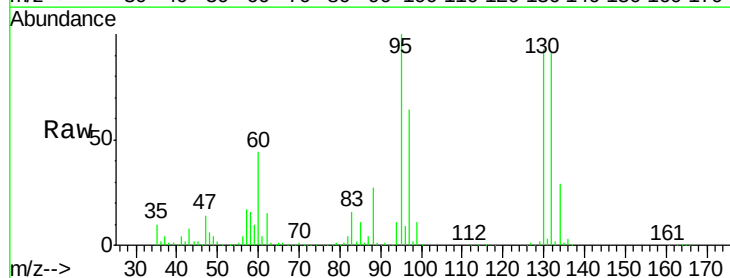
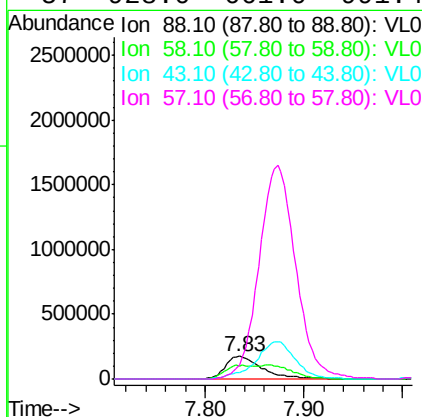
MMDadoda
 11/16/2020 2:28:00 PM

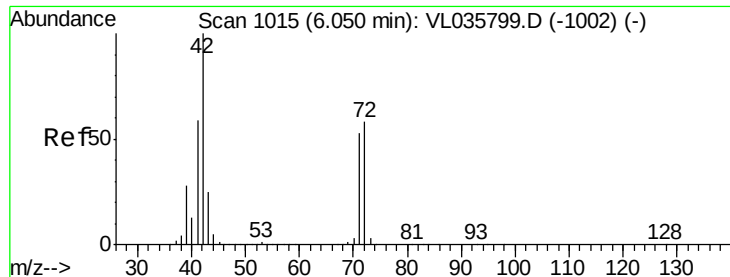


#40
 1,4-Dioxane
 Concen: 9.319 ppbv
 RT: 7.83 min Scan# 1570
 Delta R.T. -0.00 min
 Lab File: VL035910.D
 Acq: 12 Nov 2020 11:51

Tgt Ion: 88 Resp: 458737

Ion	Ratio	Lower	Upper
88	100		
58	102.9	76.2	114.2
43	176.6	123.1	184.7
57	928.0	661.0	991.4





#41

Tetrahydrofuran

Concen: 11.582 ppbv

RT: 6.05 min Scan# 1014

Delta R.T. -0.00 min

Lab File: VL035910.D

Acq: 12 Nov 2020 11:51

Instrument :

MSVOA_L

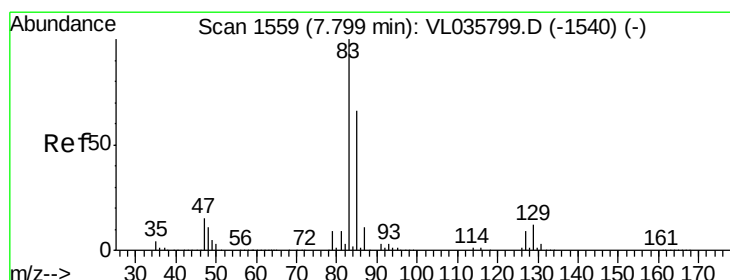
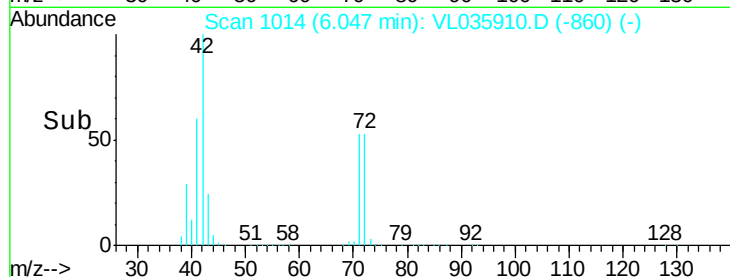
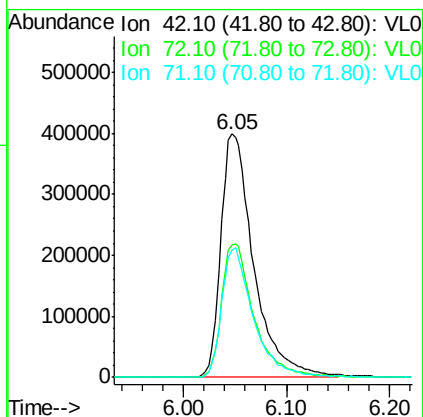
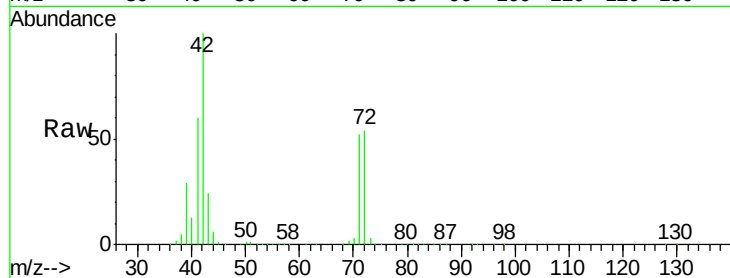
ClientSampleId :

VL1112ABS01

Tot Ion:	42	Resp:	886146
Ion	Ratio	Lower	Upper
42	100		
72	54.4	45.4	68.0
71	51.5	43.4	65.2

Manual Integrations
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#42

Bromodichloromethane

Concen: 10.667 ppbv

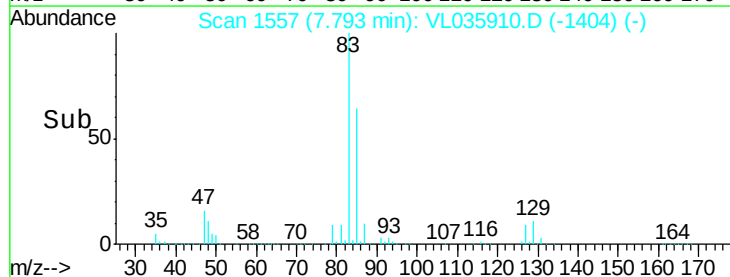
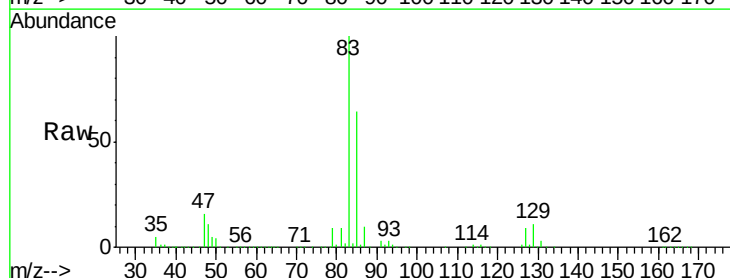
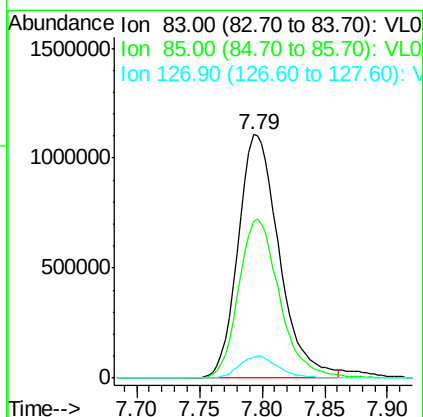
RT: 7.79 min Scan# 1557

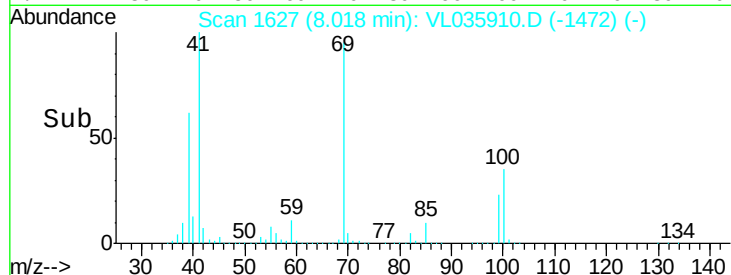
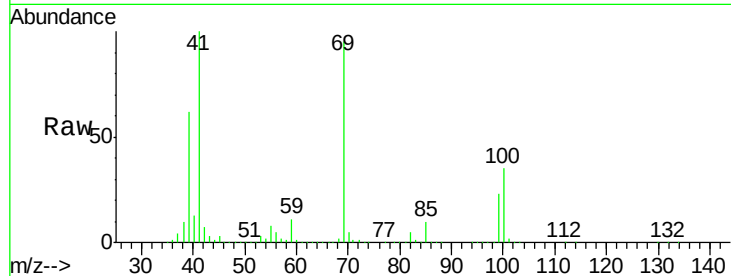
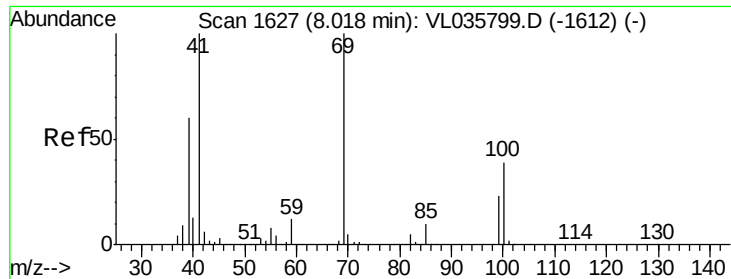
Delta R.T. -0.01 min

Lab File: VL035910.D

Acq: 12 Nov 2020 11:51

Tgt Ion:	83	Resp:	2515425
Ion	Ratio	Lower	Upper
83	100		
85	64.2	53.1	79.7
127	8.6	7.3	10.9





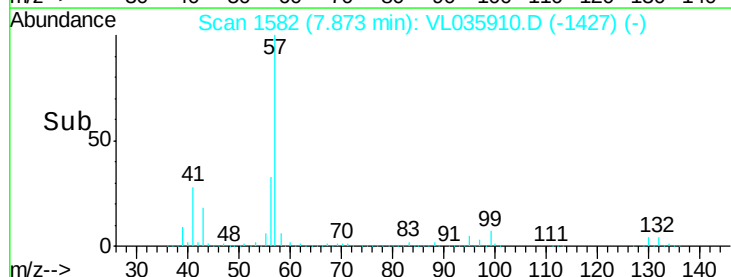
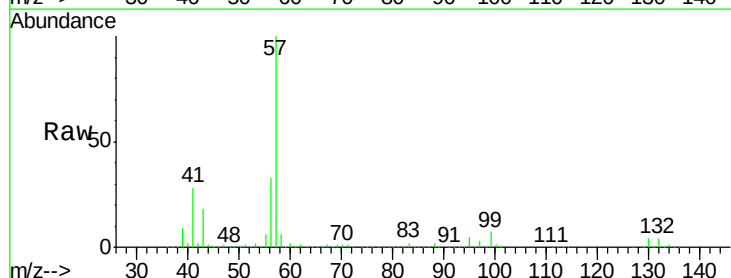
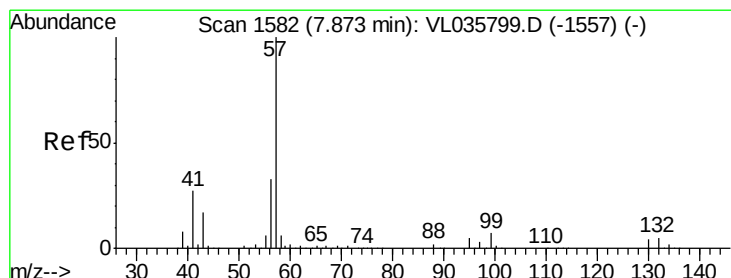
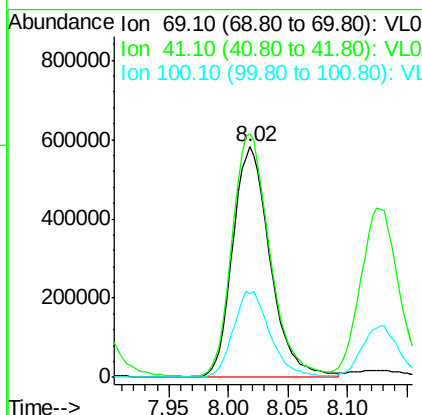
#43
Methyl Methacrylate
Concen: 10.762 ppbv
RT: 8.02 min Scan# 1627
Delta R.T. -0.00 min
Lab File: VL035910.D
Acq: 12 Nov 2020 11:51

Tot Ion: 69 Resp: 1266376
Ion Ratio Lower Upper
69 100
41 106.7 81.1 121.7
100 36.8 31.0 46.4

Instrument :
MSVOA_L
ClientSampleId :
VL1112ABS01

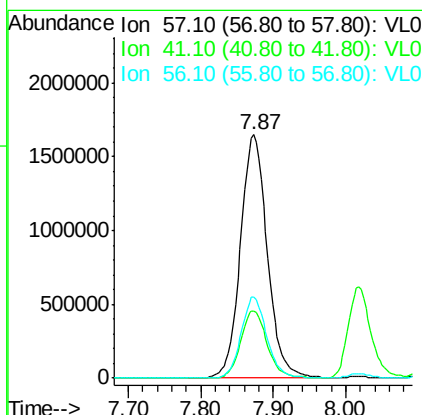
Manual Integrations
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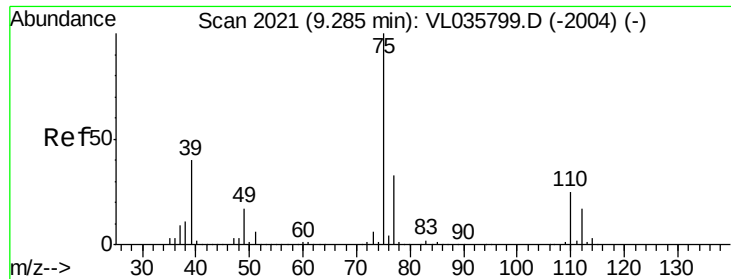
MMDadoda
11/16/2020 2:28:00 PM



#44
2,2,4-Trimethylpentane
Concen: 10.428 ppbv
RT: 7.87 min Scan# 1582
Delta R.T. -0.00 min
Lab File: VL035910.D
Acq: 12 Nov 2020 11:51

Tgt Ion: 57 Resp: 4256869
Ion Ratio Lower Upper
57 100
41 27.1 21.0 31.4
56 31.8 25.4 38.0





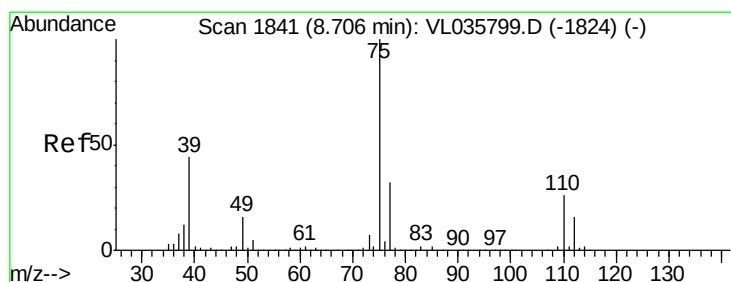
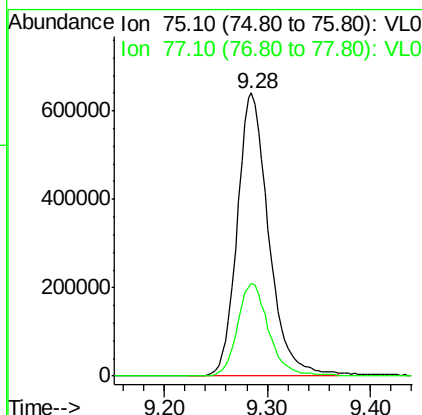
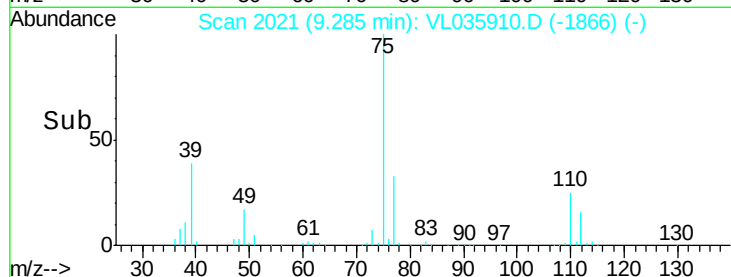
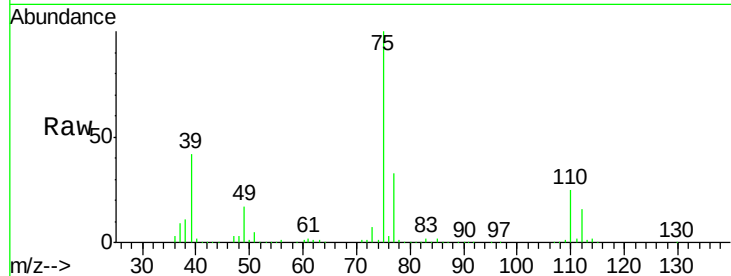
#45
 t-1,3-Dichloropropene
 Concen: 10.891 ppbv
 RT: 9.28 min Scan# 2021
 Delta R.T. -0.00 min
 Lab File: VL035910.D
 Acq: 12 Nov 2020 11:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1112ABS01

Tot Ion: 75 Resp: 1358543
 Ion Ratio Lower Upper
 75 100
 77 32.9 26.4 39.6

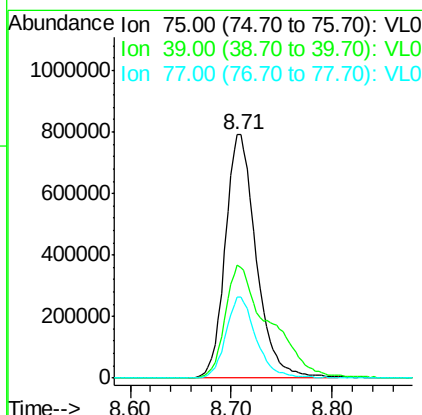
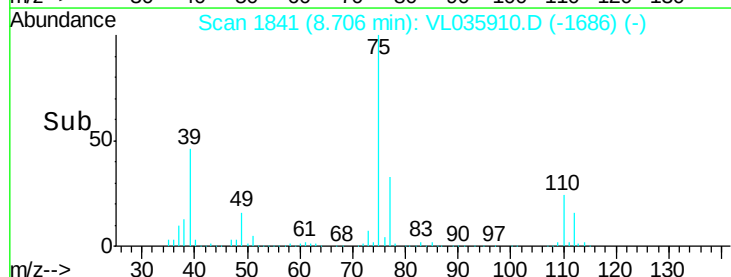
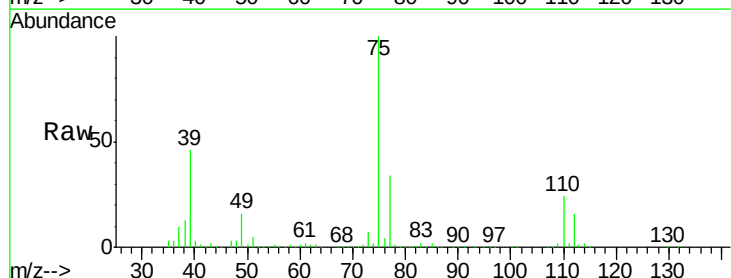
Manual Integrations
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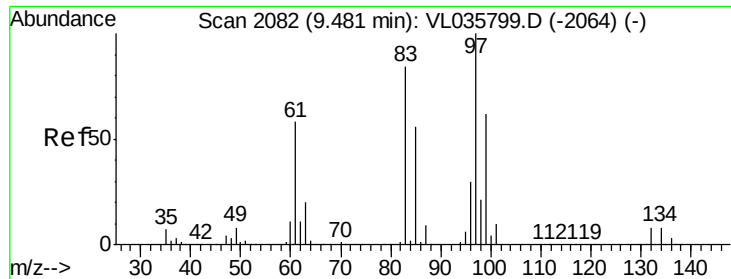
MMDadoda
 11/16/2020 2:28:00 PM



#46
 cis-1,3-Dichloropropene
 Concen: 10.721 ppbv
 RT: 8.71 min Scan# 1841
 Delta R.T. -0.00 min
 Lab File: VL035910.D
 Acq: 12 Nov 2020 11:51

Tgt Ion: 75 Resp: 1693566
 Ion Ratio Lower Upper
 75 100
 39 46.1 35.1 52.7
 77 33.5 25.7 38.5





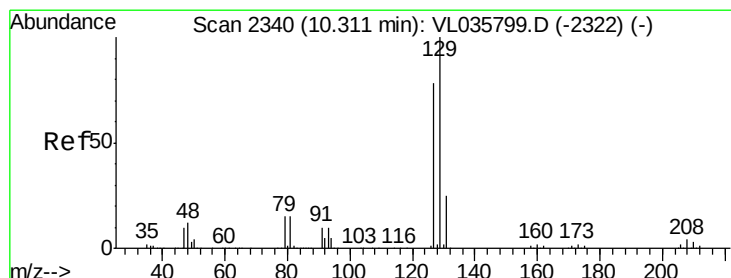
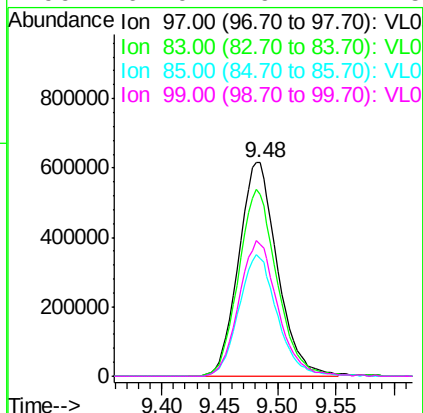
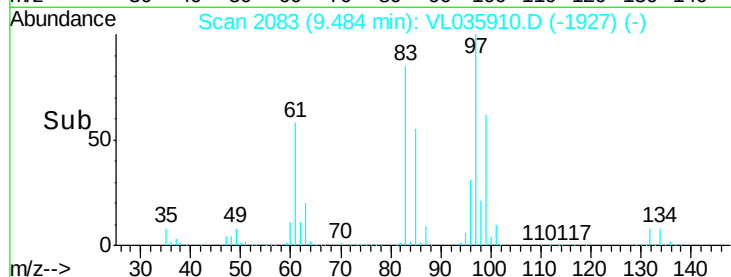
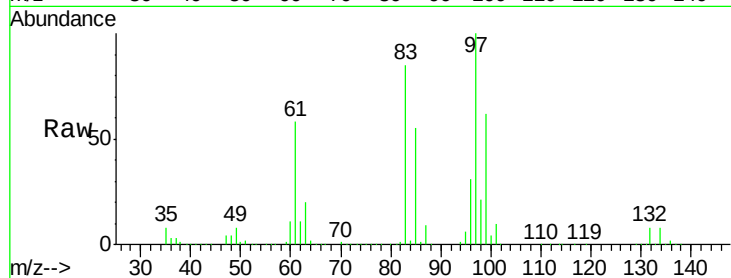
#47
 1,1,2-Trichloroethane
 Concen: 10.102 ppbv
 RT: 9.48 min Scan# 2083
 Delta R.T. 0.00 min
 Lab File: VL035910.D
 Acq: 12 Nov 2020 11:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1112ABS01

Tot Ion: 97 Resp: 1429606
 Ion Ratio Lower Upper
 97 100
 83 85.2 67.1 100.7
 85 55.3 44.7 67.1
 99 62.0 49.7 74.5

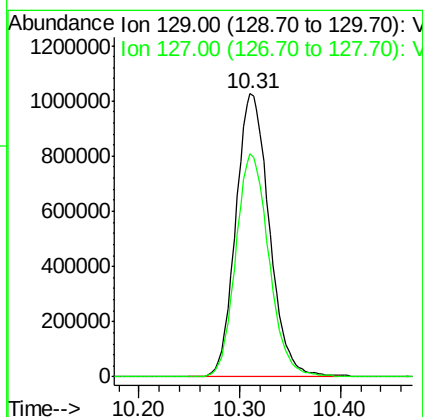
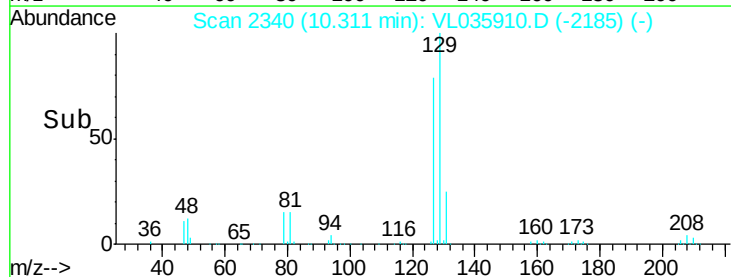
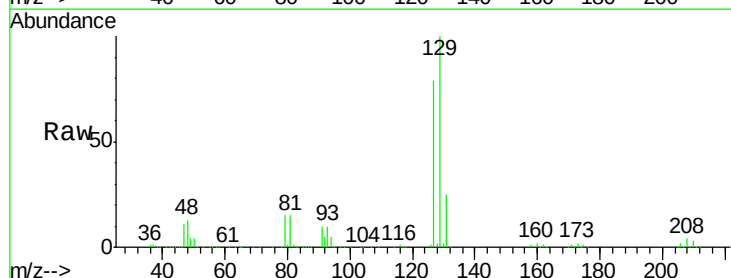
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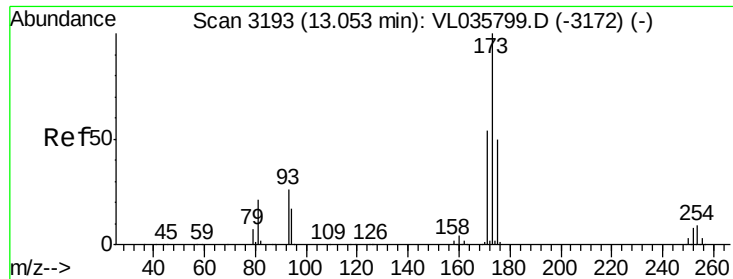
MMDadoda
 11/16/2020 2:28:00 PM



#48
 Dibromochloromethane
 Concen: 10.922 ppbv
 RT: 10.31 min Scan# 2340
 Delta R.T. -0.00 min
 Lab File: VL035910.D
 Acq: 12 Nov 2020 11:51

Tgt Ion: 129 Resp: 2361398
 Ion Ratio Lower Upper
 129 100
 127 78.5 39.2 117.6





#49

Bromoform

Concen: 11.166 ppbv

RT: 13.05 min Scan# 3192

Delta R.T. -0.00 min

Lab File: VL035910.D

Acq: 12 Nov 2020 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1112ABS01

Tot Ion:173 Resp: 2037127

Ion Ratio Lower Upper

173 100

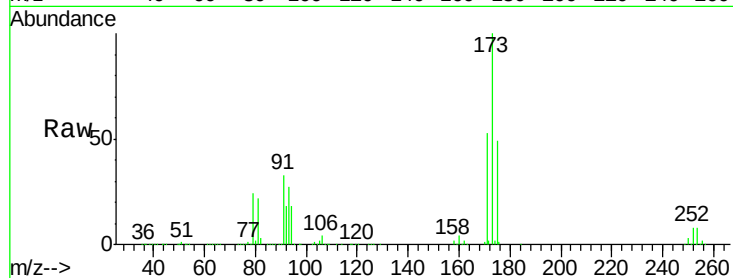
175 49.7 40.1 60.1

171 53.1 42.6 63.8

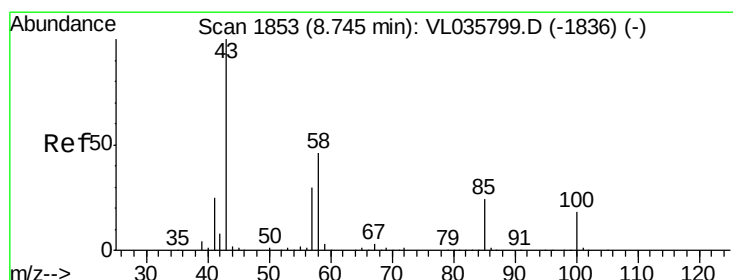
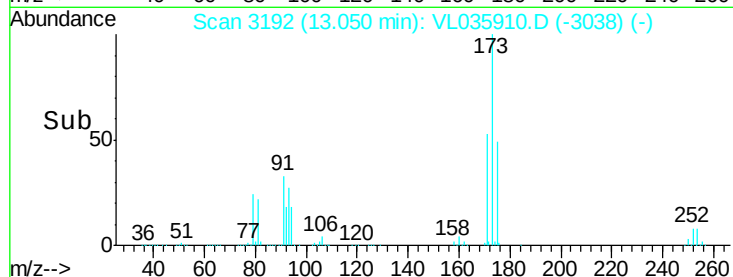
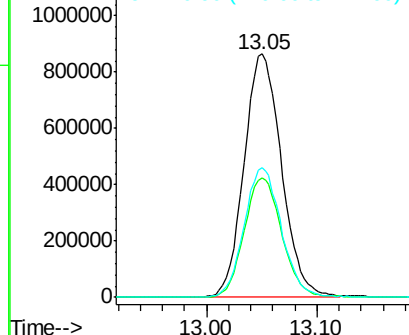
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Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 11.508 ppbv

RT: 8.74 min Scan# 1853

Delta R.T. -0.00 min

Lab File: VL035910.D

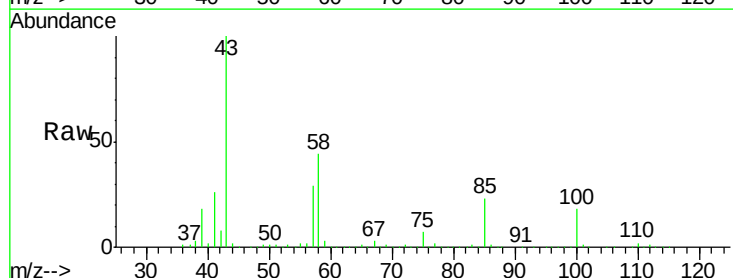
Acq: 12 Nov 2020 11:51

Tgt Ion: 43 Resp: 2369849

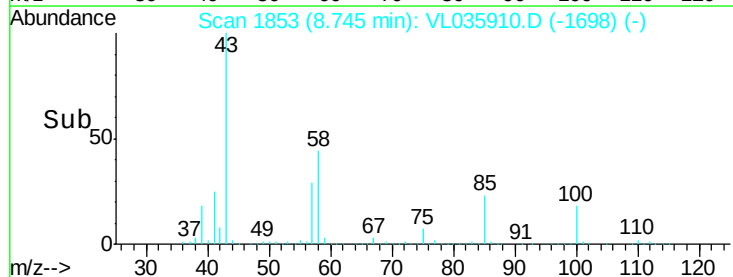
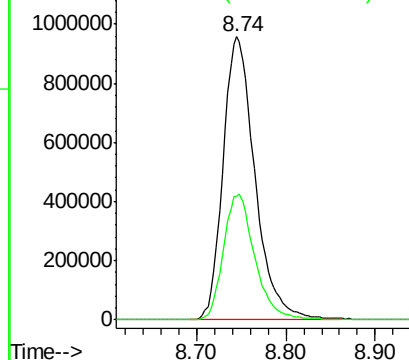
Ion Ratio Lower Upper

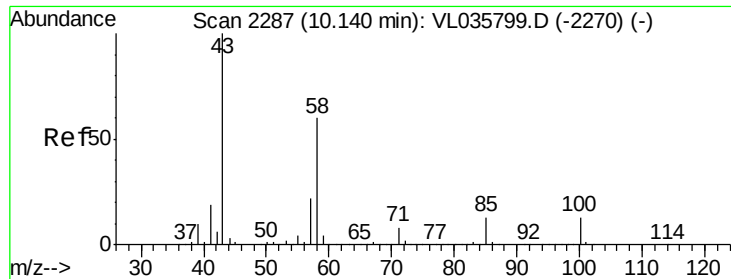
43 100

58 43.9 36.0 54.0



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





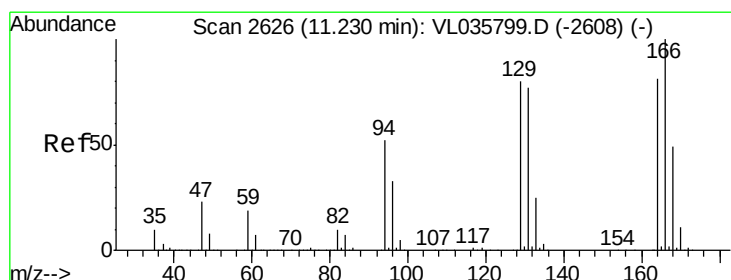
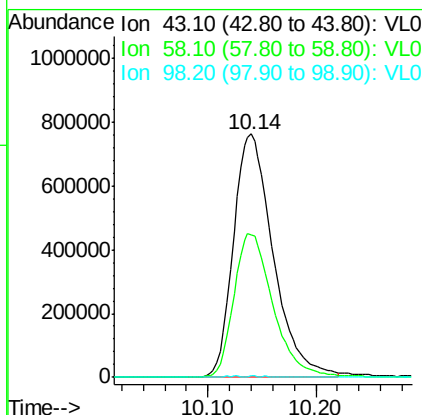
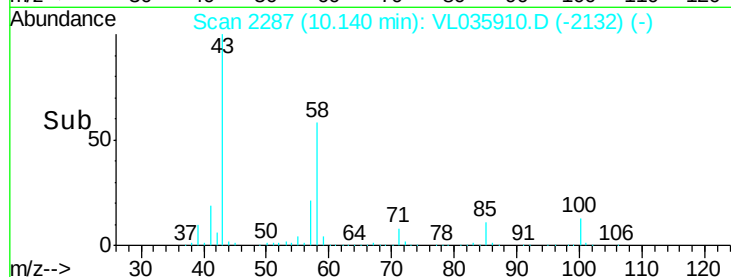
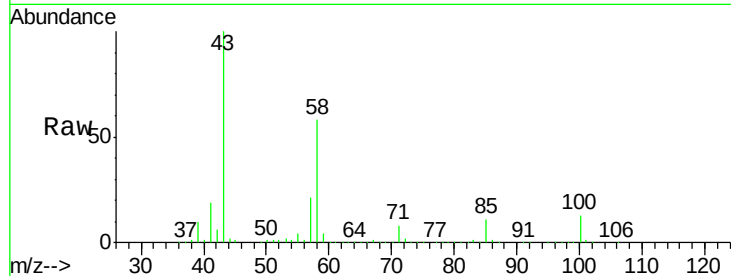
#51
2-Hexanone
Concen: 11.827 ppbv
RT: 10.14 min Scan# 2287
Delta R.T. -0.00 min
Lab File: VL035910.D
Acq: 12 Nov 2020 11:51

Instrument :
MSVOA_L
ClientSampleId :
VL1112ABS01

Tot Ion: 43 Resp: 1956510
Ion Ratio Lower Upper
43 100
58 59.0 48.3 72.5
98 0.8 0.6 0.8

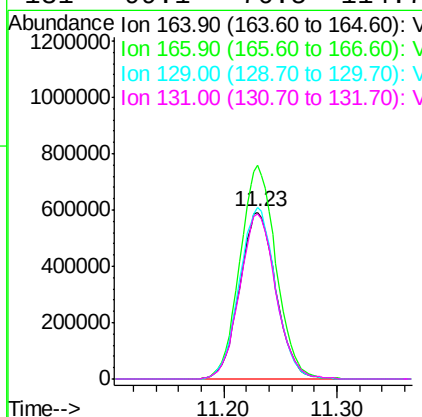
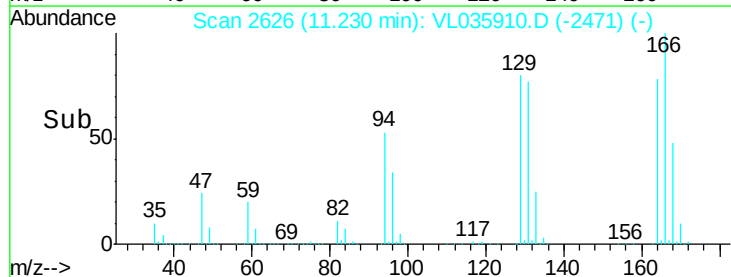
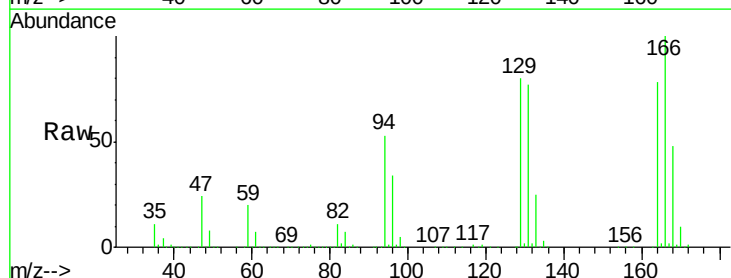
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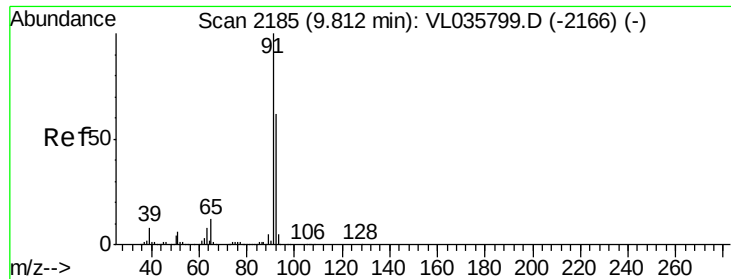
MMDadoda
11/16/2020 2:28:00 PM



#52
Tetrachloroethene
Concen: 9.040 ppbv
RT: 11.23 min Scan# 2626
Delta R.T. -0.00 min
Lab File: VL035910.D
Acq: 12 Nov 2020 11:51

Tgt Ion: 164 Resp: 1321158
Ion Ratio Lower Upper
164 100
166 128.0 99.3 148.9
129 102.4 79.3 118.9
131 99.1 76.5 114.7





#53

Toluene

Concen: 9.998 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.00 min

Lab File: VL035910.D

Acq: 12 Nov 2020 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1112ABS01

Tot Ion: 91 Resp: 3721691

Ion Ratio Lower Upper

91 100

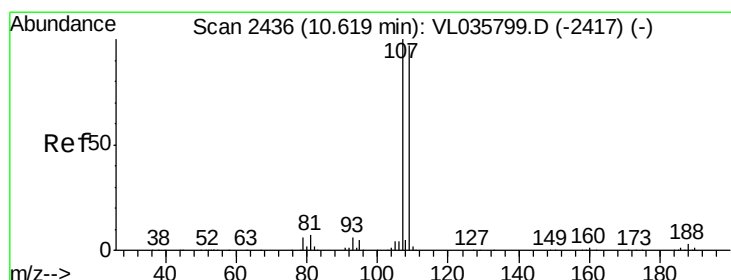
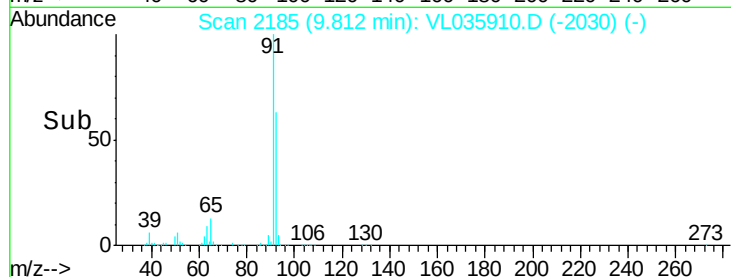
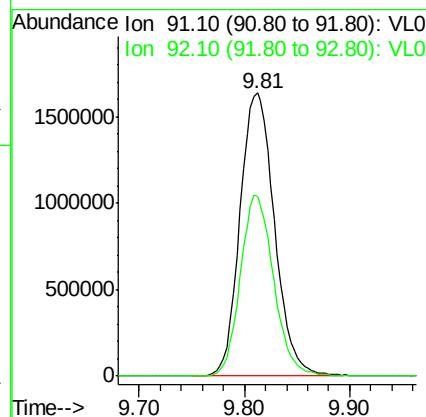
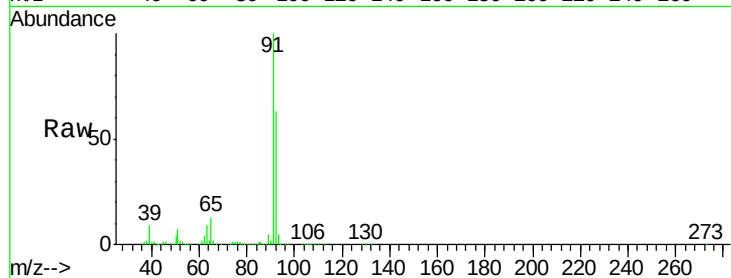
92 61.8 49.8 74.6

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 10.127 ppbv

RT: 10.62 min Scan# 2435

Delta R.T. -0.00 min

Lab File: VL035910.D

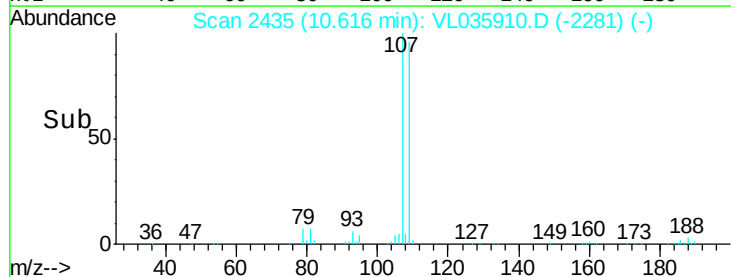
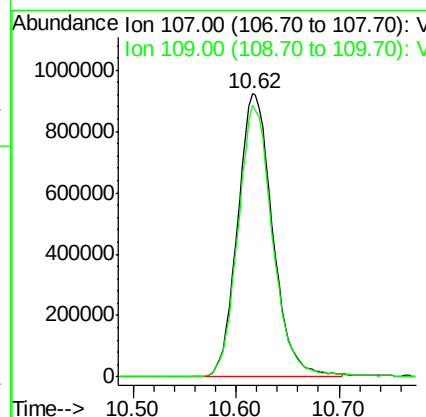
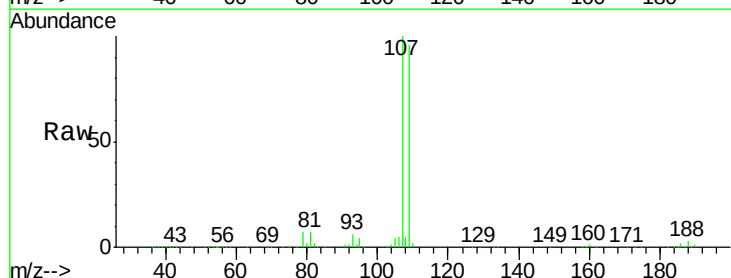
Acq: 12 Nov 2020 11:51

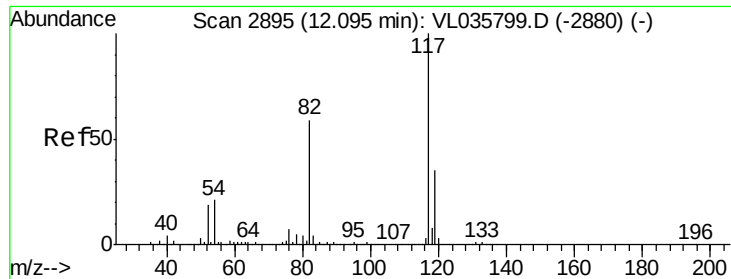
Tgt Ion: 107 Resp: 2179581

Ion Ratio Lower Upper

107 100

109 95.8 77.2 115.8





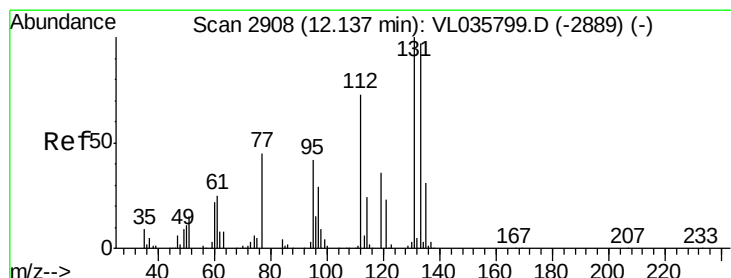
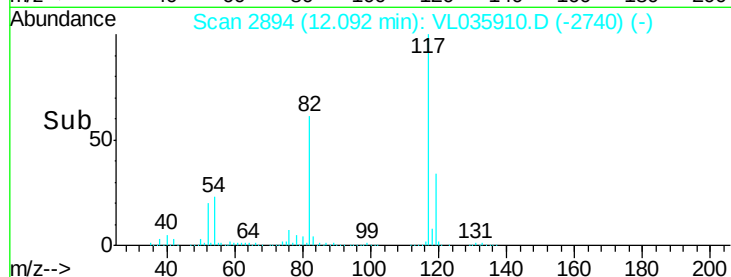
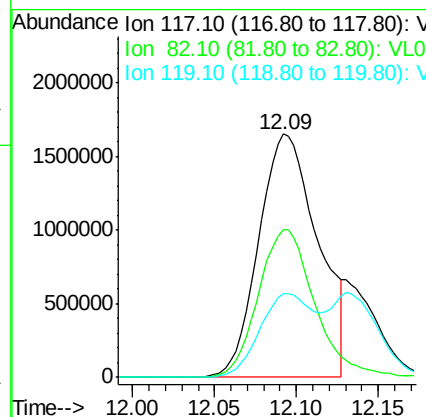
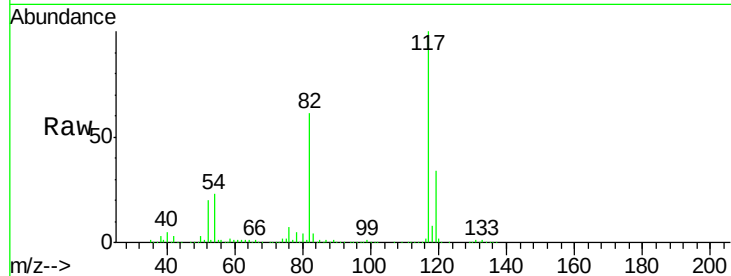
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.09 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL035910.D
Acq: 12 Nov 2020 11:51

Instrument :
MSVOA_L
ClientSampleId :
VL1112ABS01

Tot Ion:117 Resp: 4157757
Ion Ratio Lower Upper
117 100
82 58.7 50.6 76.0
119 31.3 52.6 78.8#

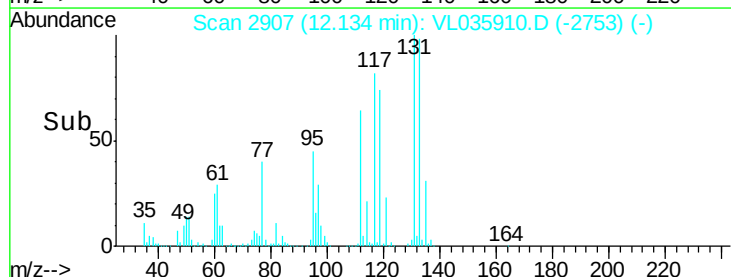
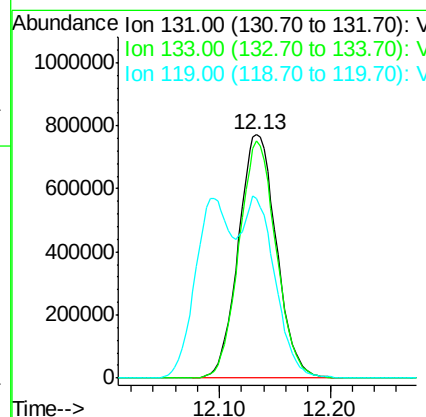
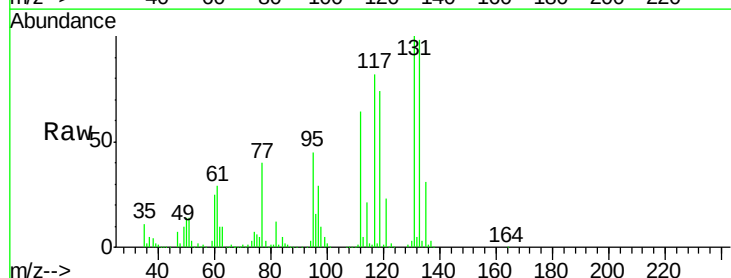
Manual Integrations
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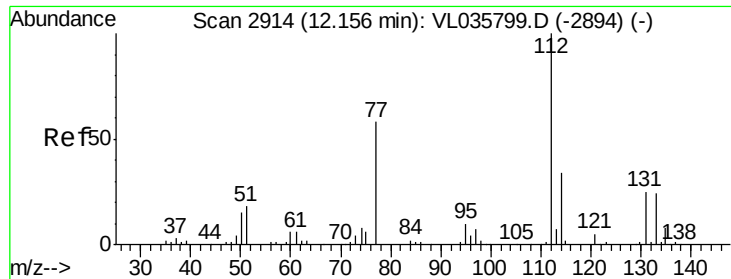
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.848 ppbv
RT: 12.13 min Scan# 2907
Delta R.T. -0.00 min
Lab File: VL035910.D
Acq: 12 Nov 2020 11:51

Tgt Ion:131 Resp: 1837795
Ion Ratio Lower Upper
131 100
133 95.6 76.8 115.2
119 62.3 47.4 71.0





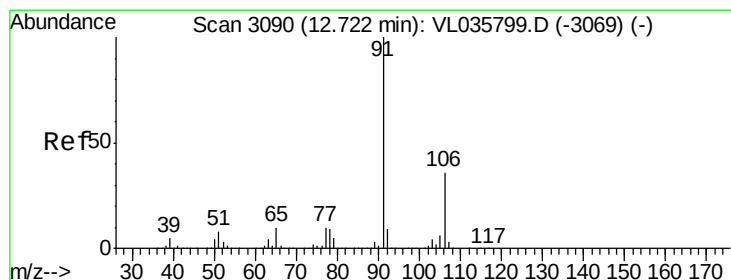
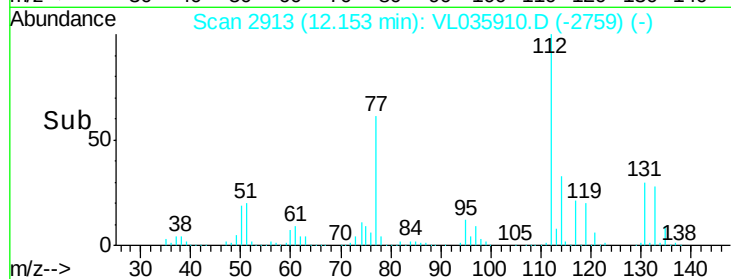
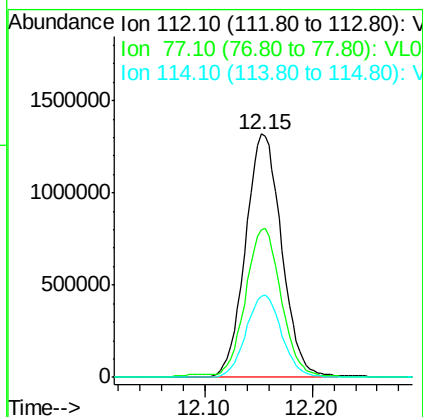
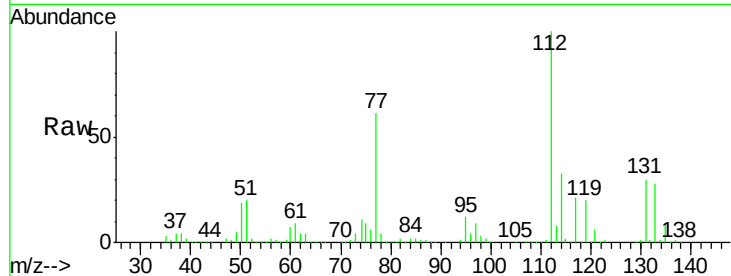
#57
Chlorobenzene
Concen: 9.293 ppbv
RT: 12.15 min Scan# 2913
Delta R.T. -0.00 min
Lab File: VL035910.D
Acq: 12 Nov 2020 11:51

Instrument :
MSVOA_L
ClientSampleId :
VL1112ABS01

Tot Ion:112 Resp: 3072270
Ion Ratio Lower Upper
112 100
77 60.1 47.5 71.3
114 33.0 30.3 37.1

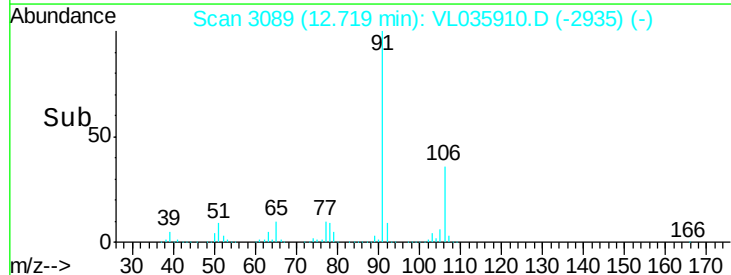
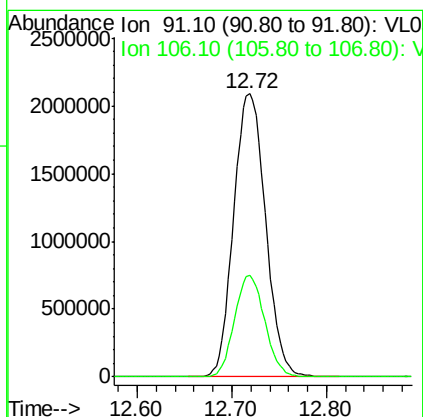
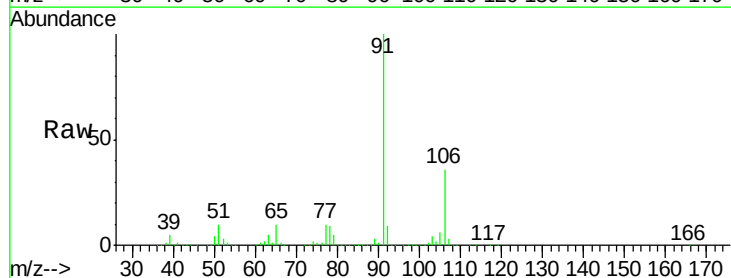
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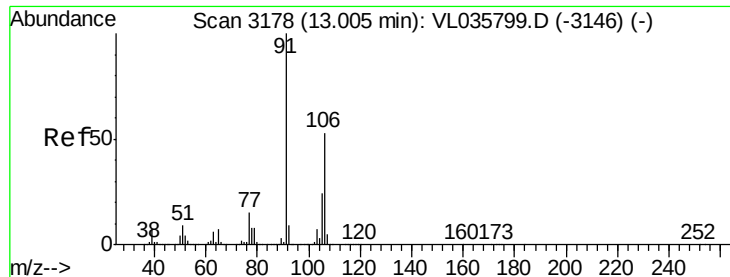
MMDadoda
11/16/2020 2:28:00 PM



#58
Ethyl Benzene
Concen: 9.702 ppbv
RT: 12.72 min Scan# 3089
Delta R.T. -0.00 min
Lab File: VL035910.D
Acq: 12 Nov 2020 11:51

Tgt Ion: 91 Resp: 4913022
Ion Ratio Lower Upper
91 100
106 35.9 28.6 43.0





#59

m/p-Xylene

Concen: 19.686 ppbv m

RT: 13.00 min Scan# 3177

Delta R.T. -0.00 min

Lab File: VL035910.D

Acq: 12 Nov 2020 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1112ABS01

Tot Ion: 91 Resp: 8434150

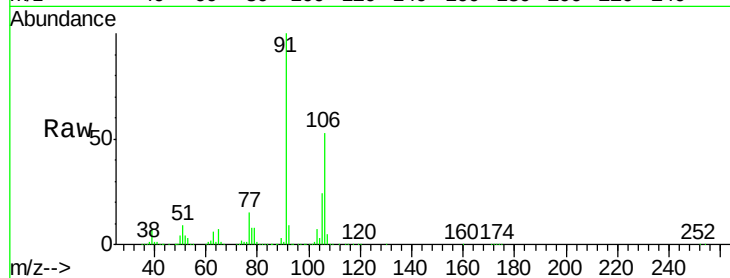
Ion Ratio Lower Upper

91 100

106 48.7 39.5 59.3

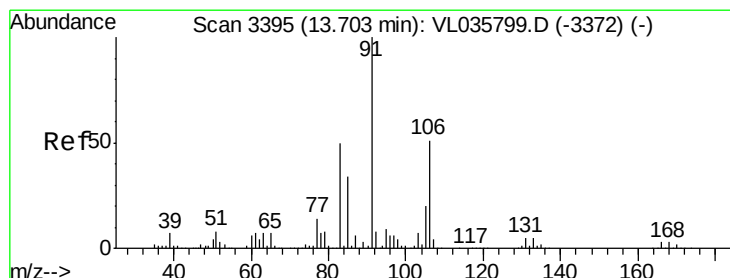
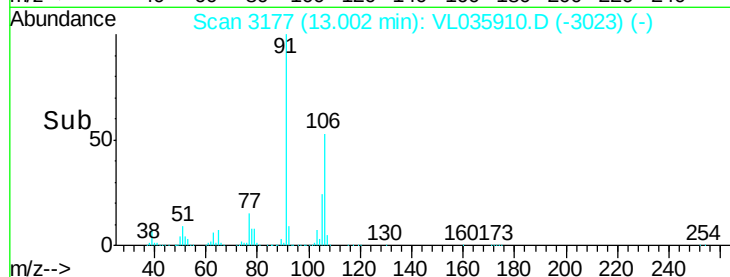
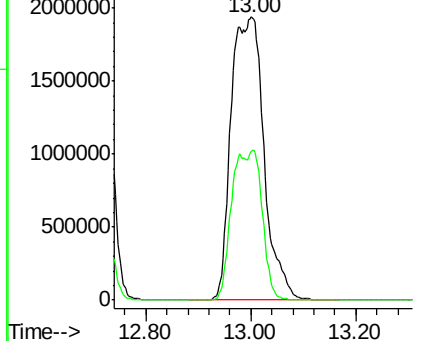
Manual Integrations
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11/16/2020 2:28:00 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 9.889 ppbv

RT: 13.70 min Scan# 3394

Delta R.T. -0.00 min

Lab File: VL035910.D

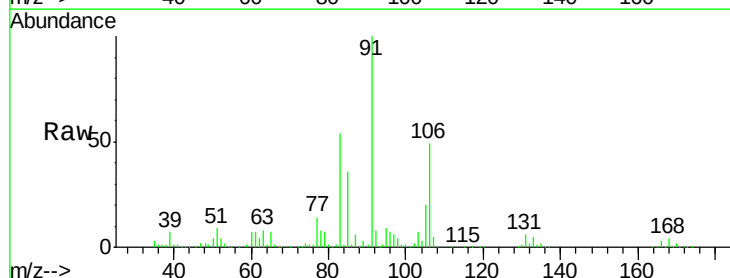
Acq: 12 Nov 2020 11:51

Tgt Ion: 91 Resp: 4121470

Ion Ratio Lower Upper

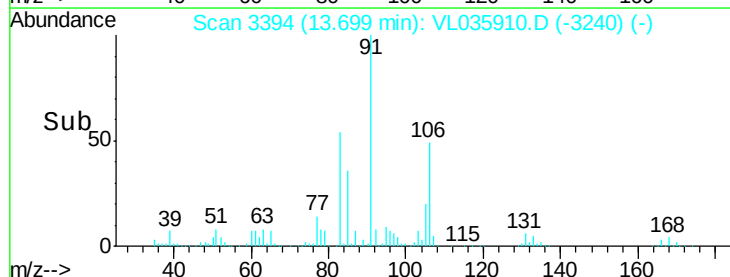
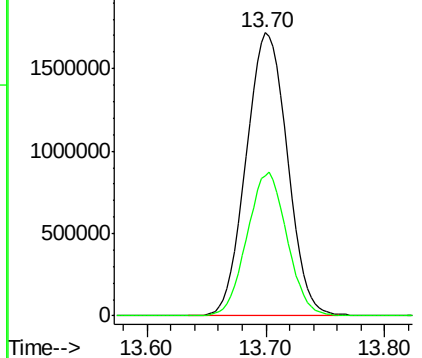
91 100

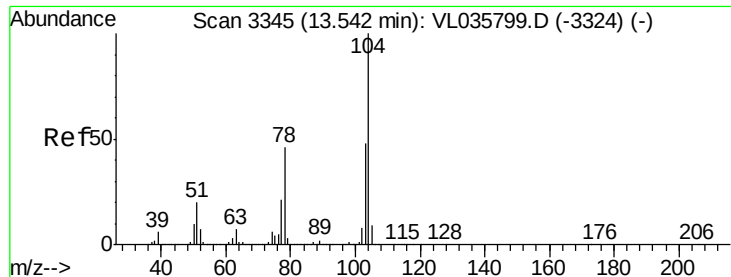
106 49.2 24.8 74.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Stvrene

Concen: 10.171 ppbv

RT: 13.54 min Scan# 3343

Delta R.T. -0.01 min

Lab File: VL035910.D

Acq: 12 Nov 2020 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1112ABS01

Tot Ion:104 Resp: 3106000

Ion Ratio Lower Upper

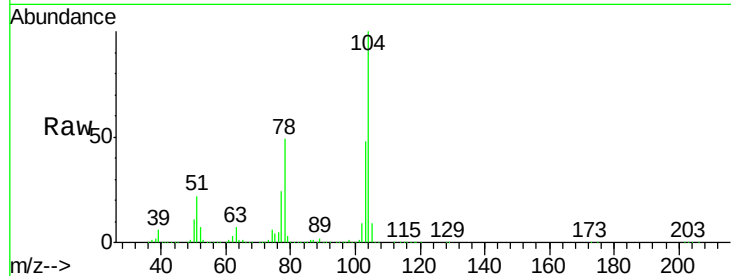
104 100

78 47.9 37.1 55.7

103 47.4 37.9 56.9

Manual Integrations
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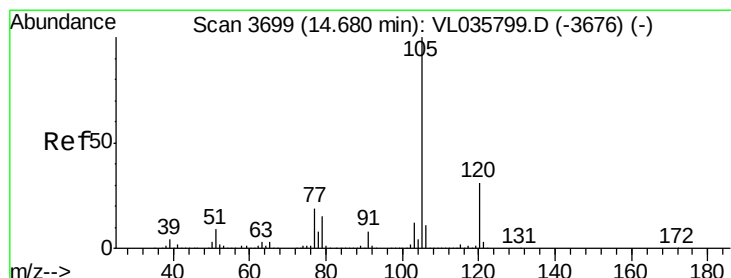
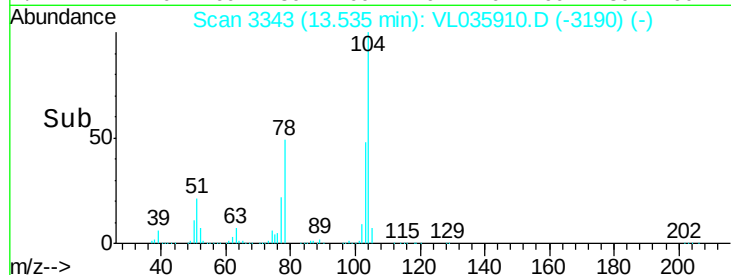
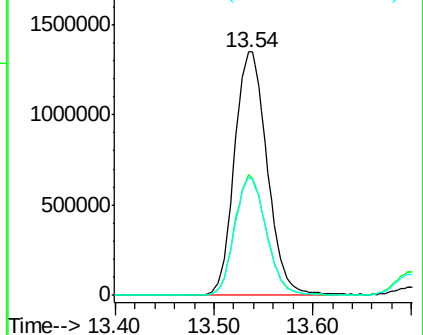
MMDadoda
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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): V

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.463 ppbv

RT: 14.68 min Scan# 3698

Delta R.T. -0.00 min

Lab File: VL035910.D

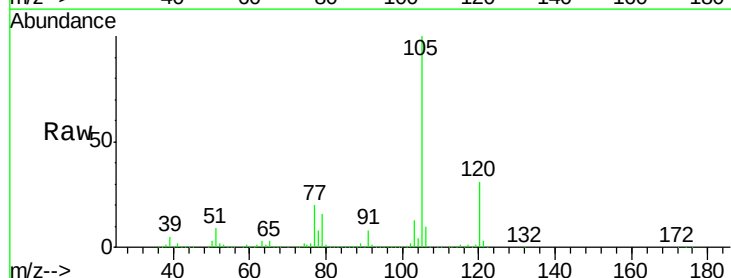
Acq: 12 Nov 2020 11:51

Tgt Ion:105 Resp: 6198723

Ion Ratio Lower Upper

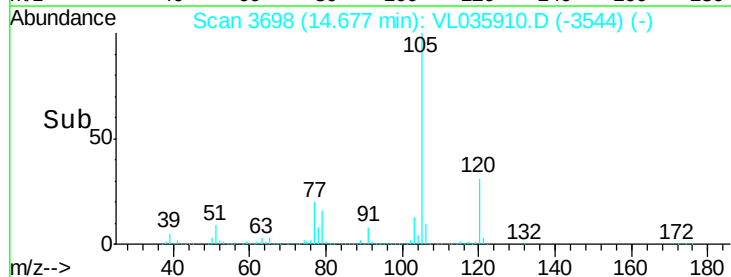
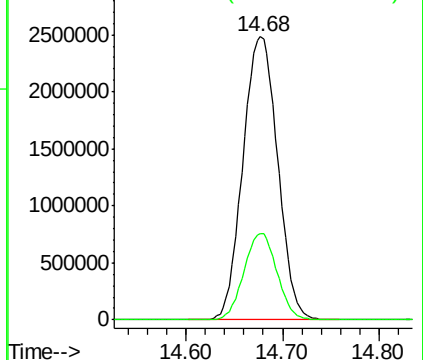
105 100

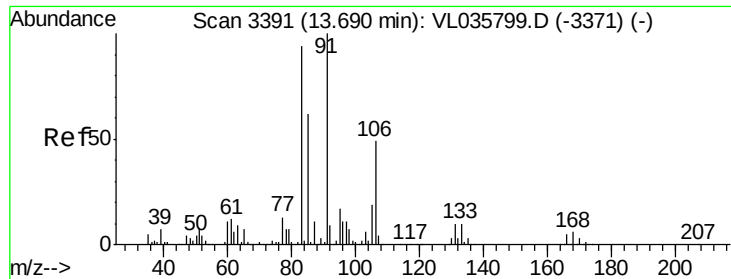
120 29.0 23.5 35.3



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





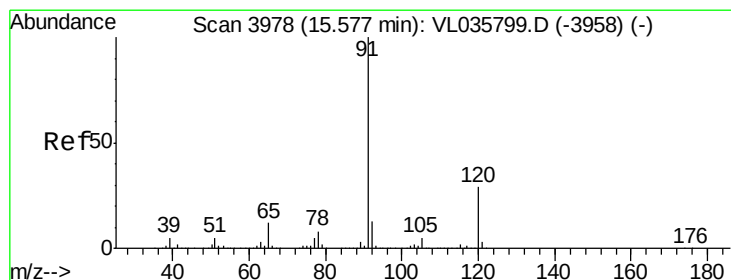
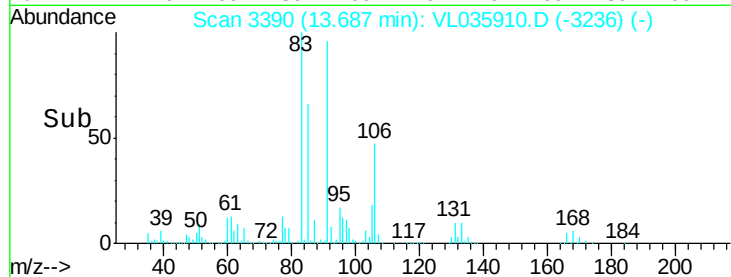
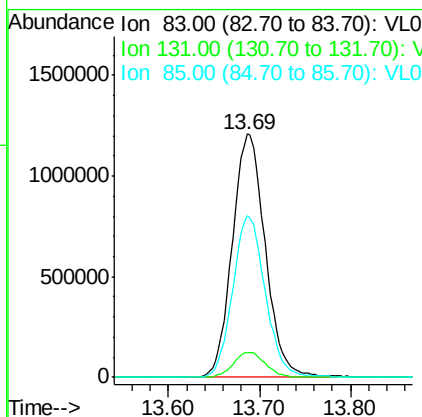
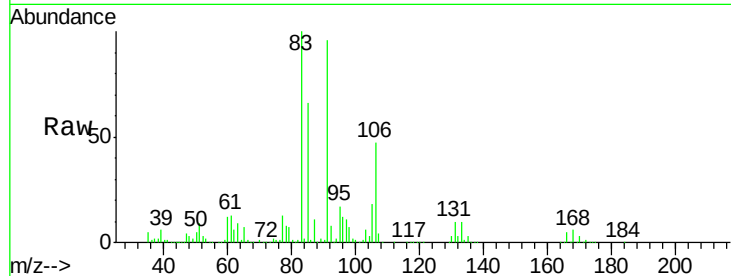
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.422 ppbv
 RT: 13.69 min Scan# 3390
 Delta R.T. -0.00 min
 Lab File: VL035910.D
 Acq: 12 Nov 2020 11:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1112ABS01

Tot Ion: 83 Resp: 3042541
 Ion Ratio Lower Upper
 83 100
 131 10.1 5.3 15.8
 85 66.0 33.5 100.4

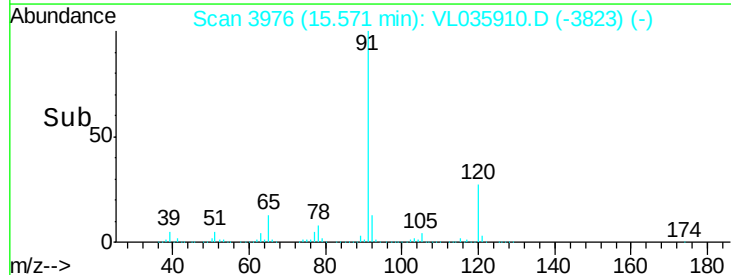
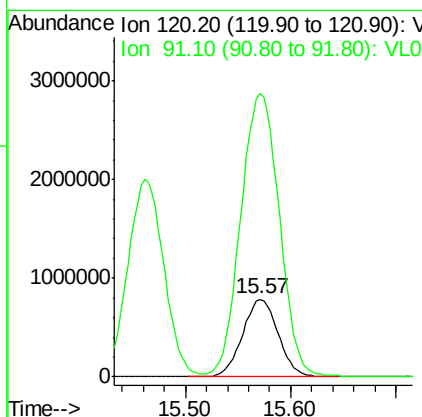
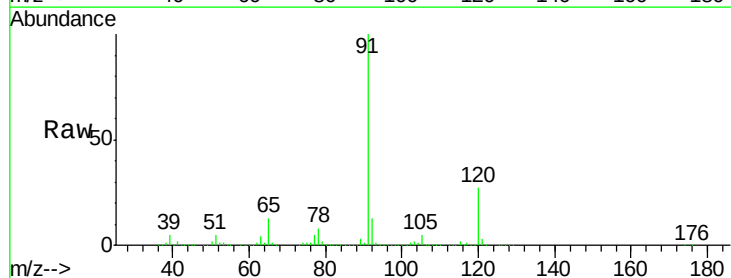
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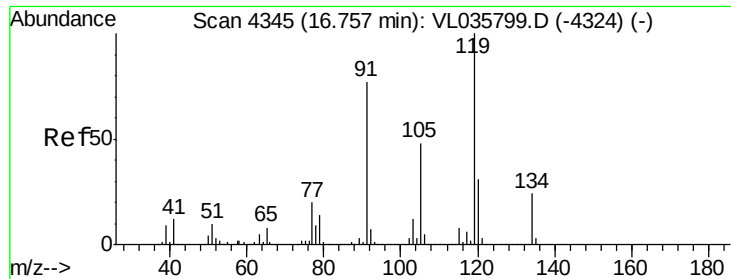
MMDadoda
 11/16/2020 2:28:00 PM



#64
 n-propylbenzene
 Concen: 9.773 ppbv
 RT: 15.57 min Scan# 3976
 Delta R.T. -0.01 min
 Lab File: VL035910.D
 Acq: 12 Nov 2020 11:51

Tgt Ion:120 Resp: 1850441
 Ion Ratio Lower Upper
 120 100
 91 396.2 311.1 466.7





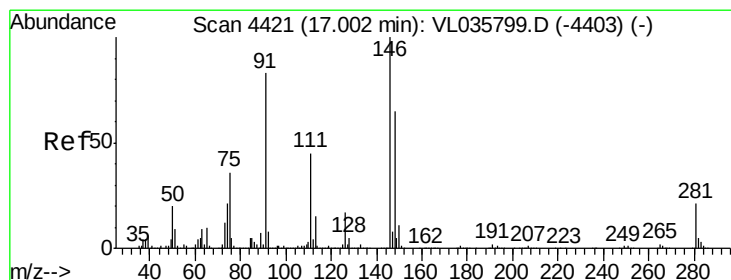
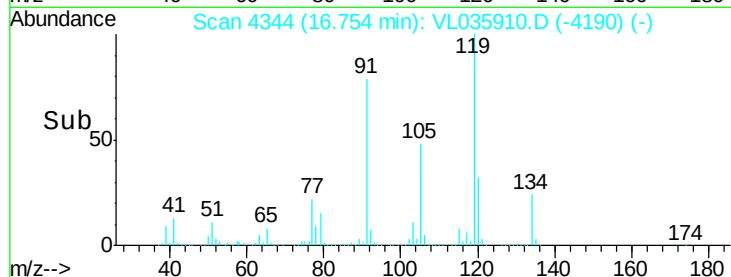
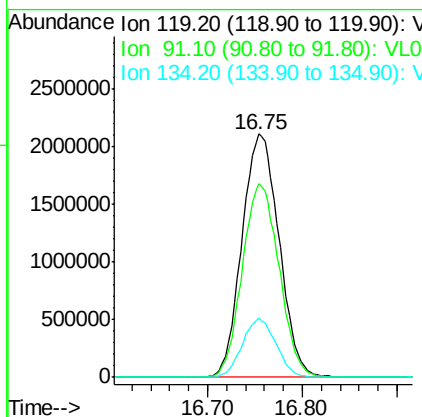
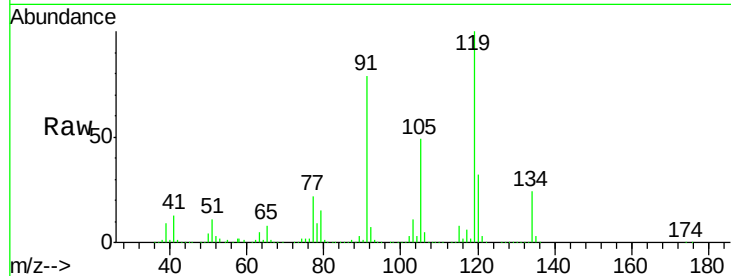
#65
 tert-Butylbenzene
 Concen: 9.626 ppbv
 RT: 16.75 min Scan# 4344
 Delta R.T. -0.00 min
 Lab File: VL035910.D
 Acq: 12 Nov 2020 11:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1112ABS01

Tot Ion:119 Resp: 5739626
 Ion Ratio Lower Upper
 119 100
 91 79.0 62.0 93.0
 134 22.1 17.8 26.8

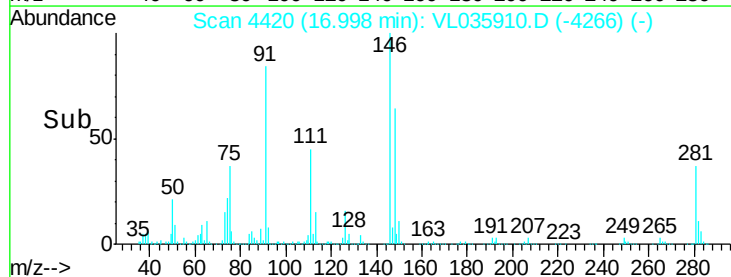
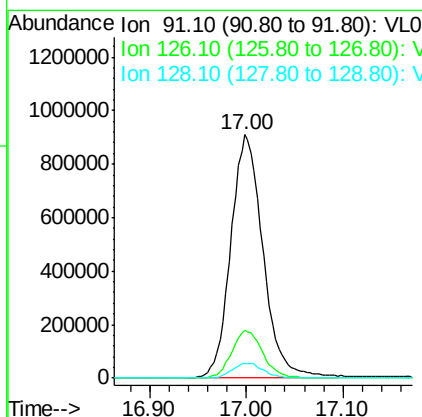
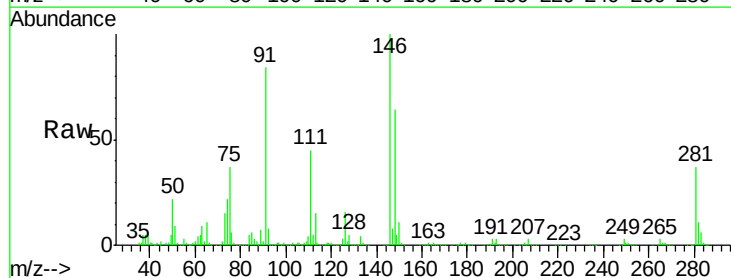
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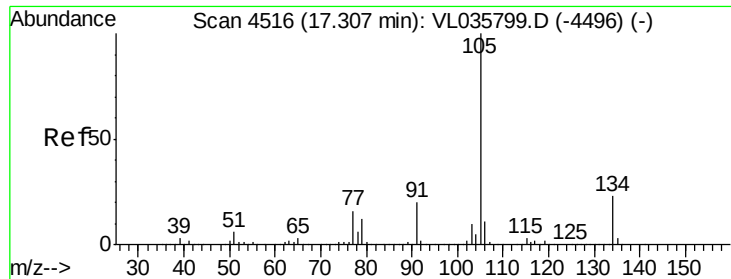
MMDadoda
 11/16/2020 2:28:00 PM



#66
 Benzyl Chloride
 Concen: 10.629 ppbv
 RT: 17.00 min Scan# 4420
 Delta R.T. -0.00 min
 Lab File: VL035910.D
 Acq: 12 Nov 2020 11:51

Tgt Ion: 91 Resp: 2094720
 Ion Ratio Lower Upper
 91 100
 126 19.3 16.0 24.0
 128 6.1 5.0 7.4





#67

sec-Butylbenzene

Concen: 9.687 ppbv

RT: 17.30 min Scan# 4515

Delta R.T. -0.00 min

Lab File: VL035910.D

Acq: 12 Nov 2020 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1112ABS01

Tot Ion: 105 Resp: 7783987

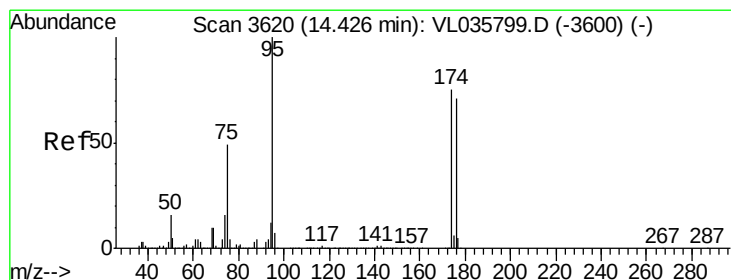
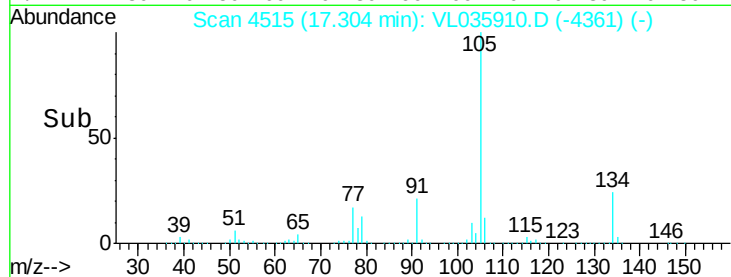
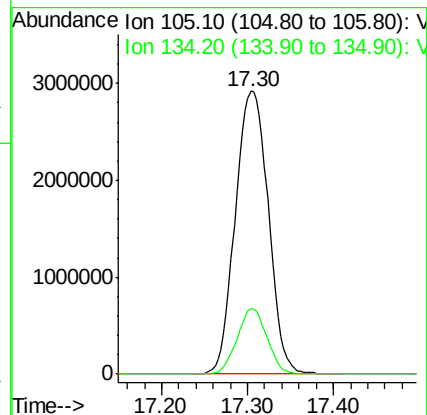
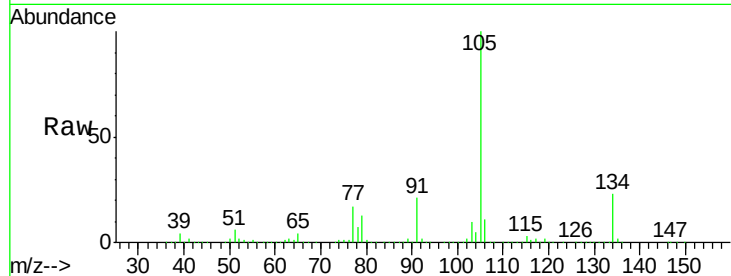
Ion Ratio Lower Upper

105 100

134 21.1 17.0 25.6

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#68

1-Bromo-4-Fluorobenzene

Concen: 10.195 ppbv

RT: 14.43 min Scan# 3620

Delta R.T. -0.00 min

Lab File: VL035910.D

Acq: 12 Nov 2020 11:51

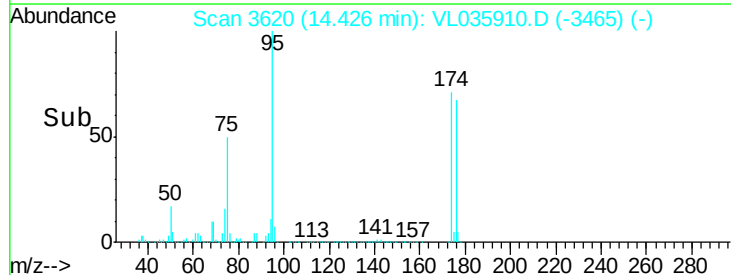
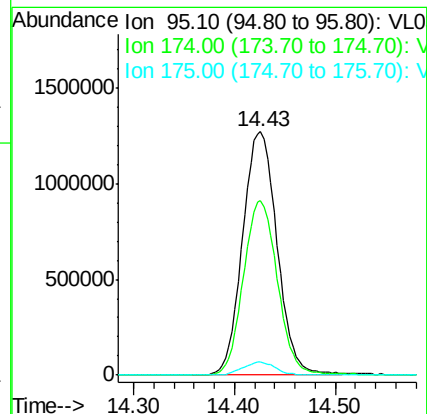
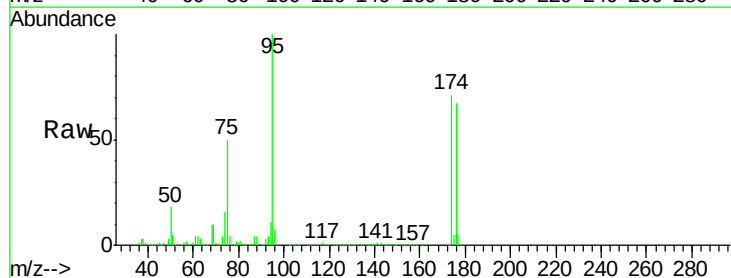
Tgt Ion: 95 Resp: 3011635

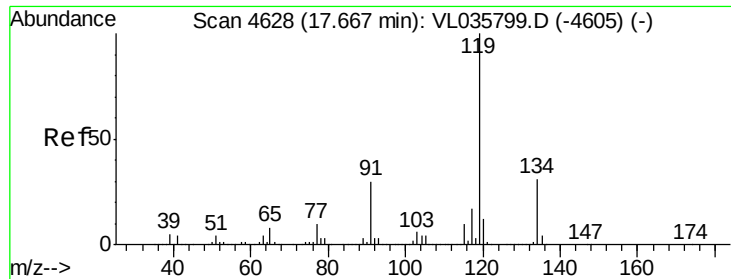
Ion Ratio Lower Upper

95 100

174 71.7 59.8 89.6

175 5.1 4.3 6.5





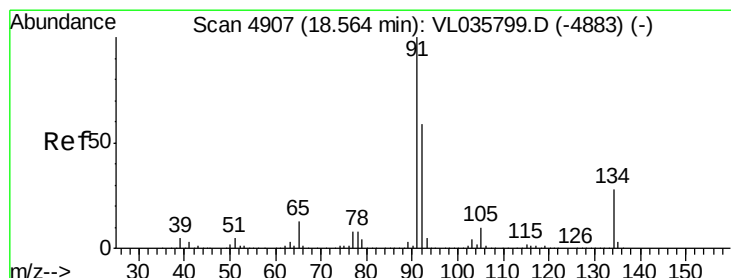
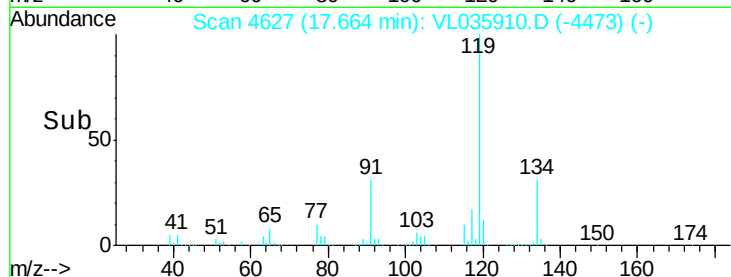
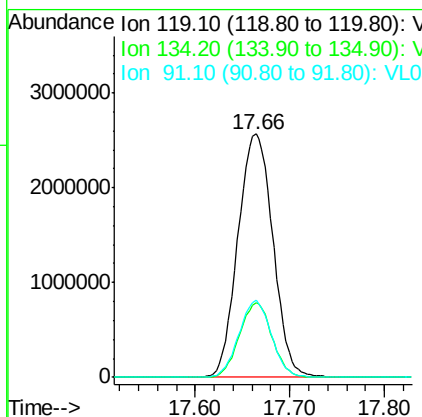
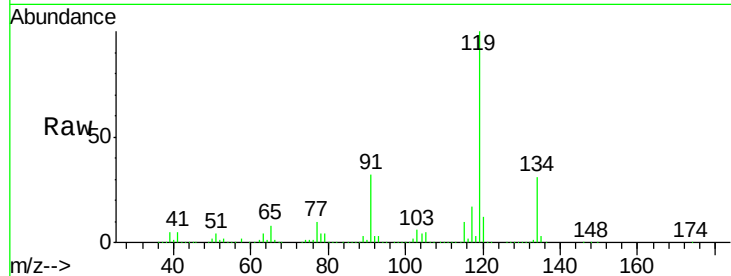
#69
 p-Isopropyltoluene
 Concen: 9.946 ppbv
 RT: 17.66 min Scan# 4627
 Delta R.T. -0.00 min
 Lab File: VL035910.D
 Acq: 12 Nov 2020 11:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1112ABS01

Tot Ion: 119 Resp: 6595022
 Ion Ratio Lower Upper
 119 100
 134 28.7 23.0 34.6
 91 29.3 22.8 34.2

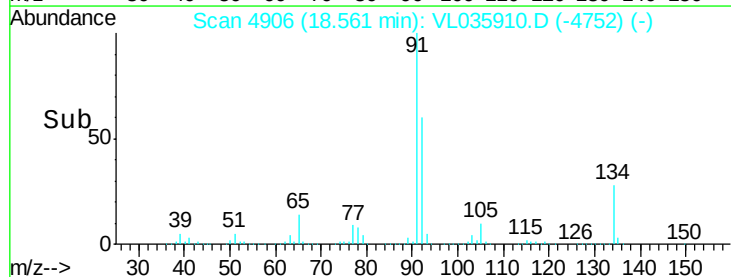
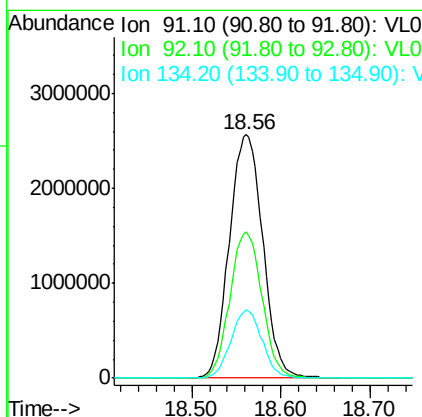
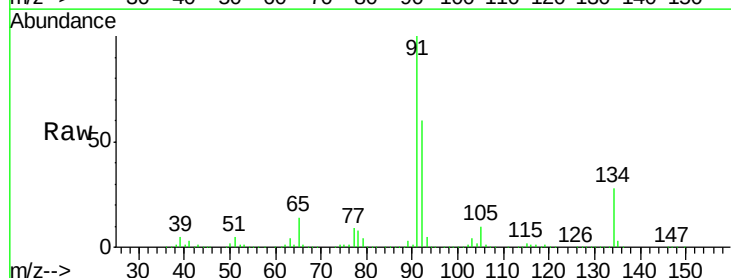
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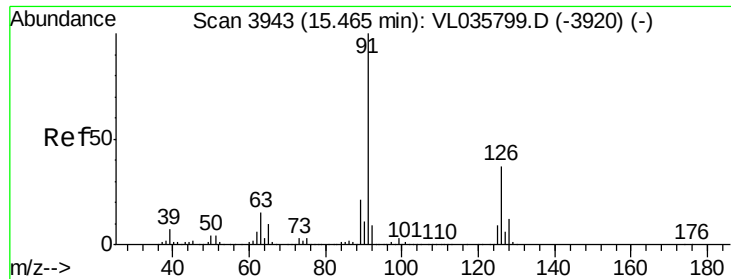
MMDadoda
 11/16/2020 2:28:00 PM



#70
 n-Butylbenzene
 Concen: 10.436 ppbv
 RT: 18.56 min Scan# 4906
 Delta R.T. -0.00 min
 Lab File: VL035910.D
 Acq: 12 Nov 2020 11:51

Tgt Ion: 91 Resp: 6663855
 Ion Ratio Lower Upper
 91 100
 92 57.8 45.7 68.5
 134 26.2 21.0 31.4





#71

2-Chlorotoluene

Concen: 9.957 ppbv

RT: 15.46 min Scan# 3942

Delta R.T. -0.00 min

Lab File: VL035910.D

Acq: 12 Nov 2020 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1112ABS01

Tot Ion: 91 Resp: 4771051

Ion Ratio Lower Upper

91 100

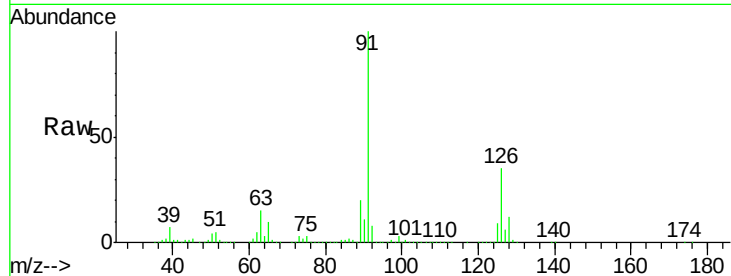
126 34.6 14.3 57.1

Manual Integrations

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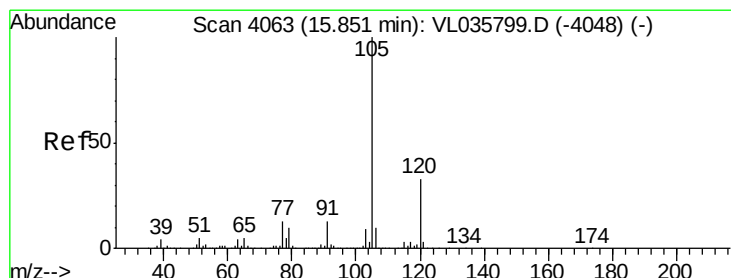
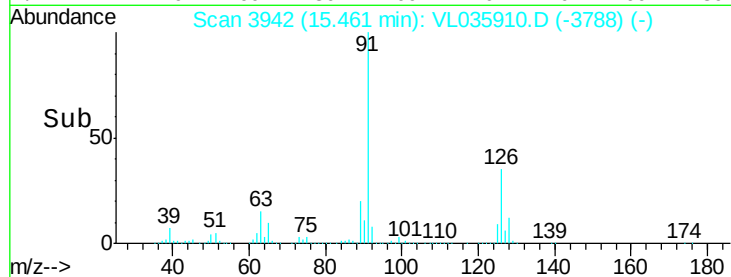
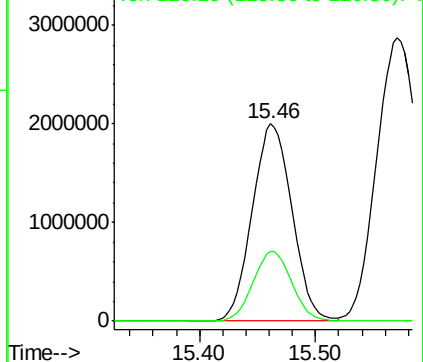
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 9.972 ppbv

RT: 15.85 min Scan# 4063

Delta R.T. -0.00 min

Lab File: VL035910.D

Acq: 12 Nov 2020 11:51

Tgt Ion: 105 Resp: 5040358

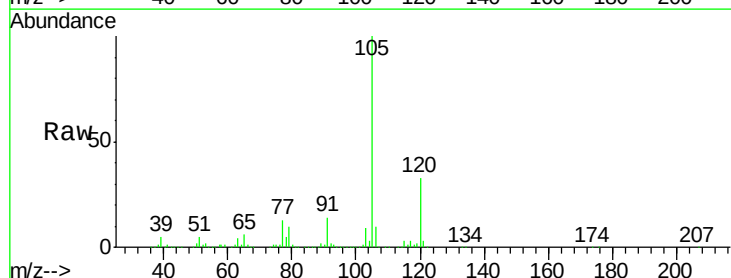
Ion Ratio Lower Upper

105 100

120 32.3 25.9 38.9

91 12.6 9.9 14.9

77 12.9 10.2 15.2

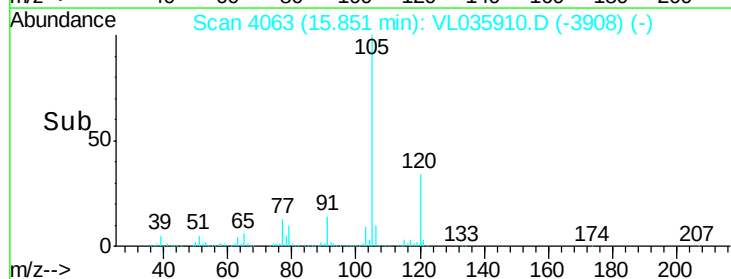
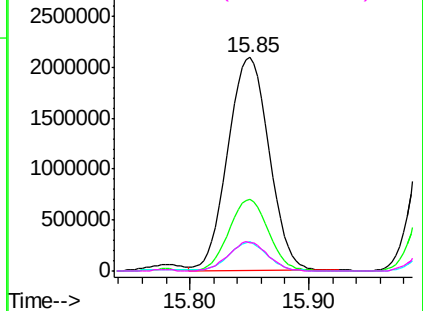


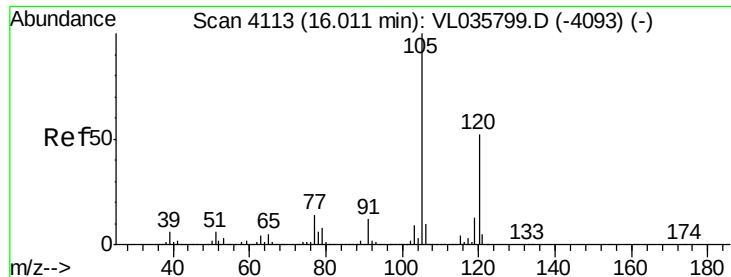
Abundance Ion 105.10 (104.80 to 105.80): V

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





#73

1,3,5-Trimethylbenzene

Concen: 10.179 ppbv

RT: 16.01 min Scan# 4112

Delta R.T. -0.00 min

Lab File: VL035910.D

Acq: 12 Nov 2020 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1112ABS01

Tot Ion:105 Resp: 4708741

Ion Ratio Lower Upper

105 100

120 50.8

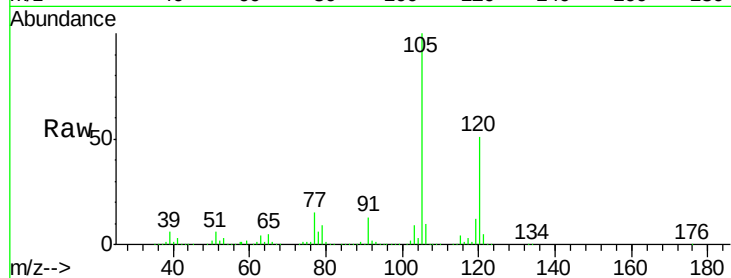
41.4 62.2

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.01

2000000

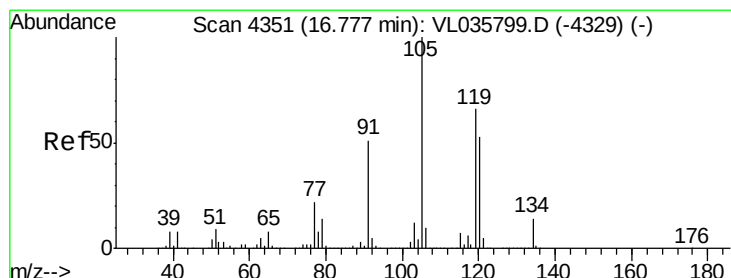
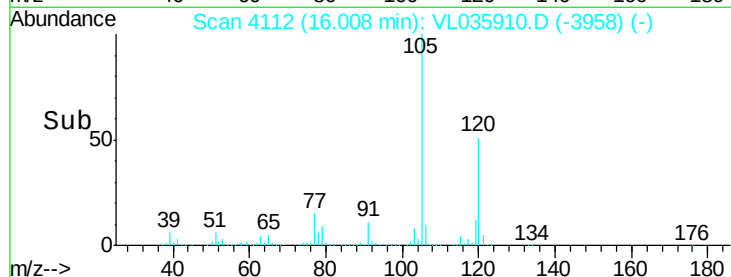
1500000

1000000

500000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 10.009 ppbv

RT: 16.77 min Scan# 4350

Delta R.T. -0.00 min

Lab File: VL035910.D

Acq: 12 Nov 2020 11:51

Tgt Ion:105 Resp: 4961289

Ion Ratio Lower Upper

105 100

120 53.8

42.0 63.0

91 53.0

41.0 61.6

77 22.6

17.3 25.9

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

3000000

2500000

2000000

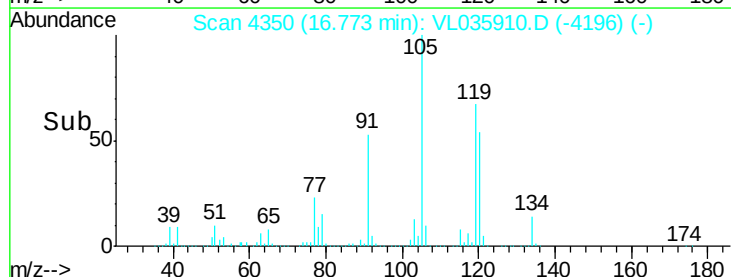
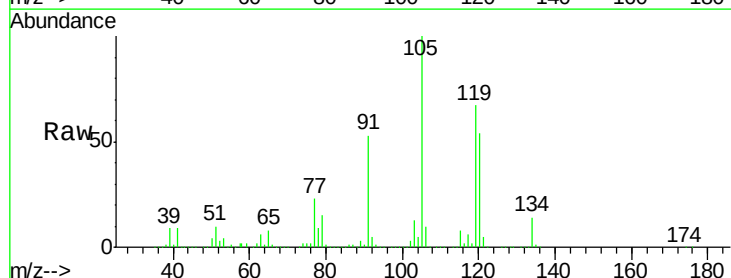
1500000

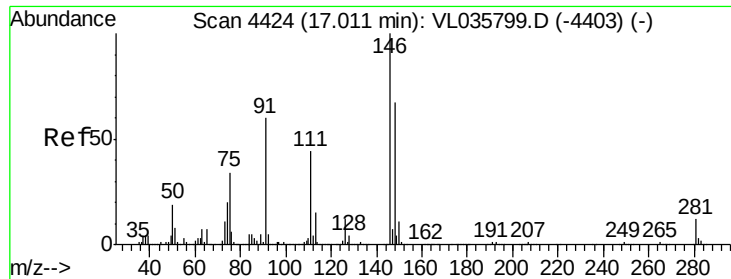
1000000

500000

0

Time-->





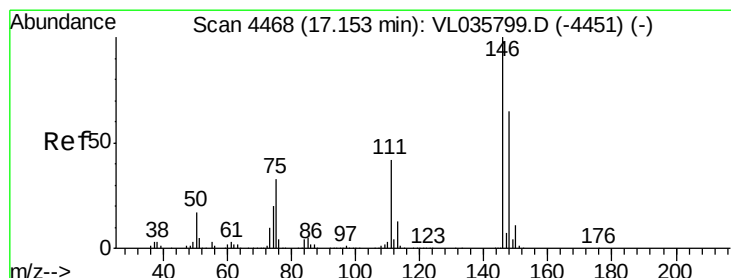
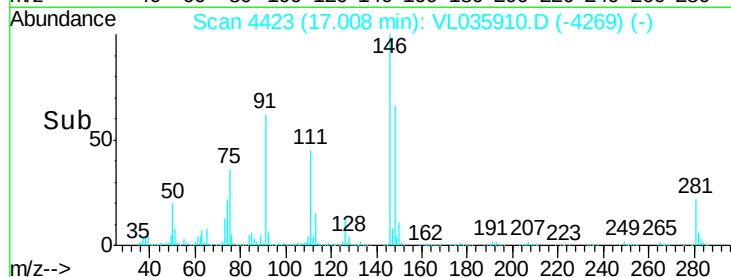
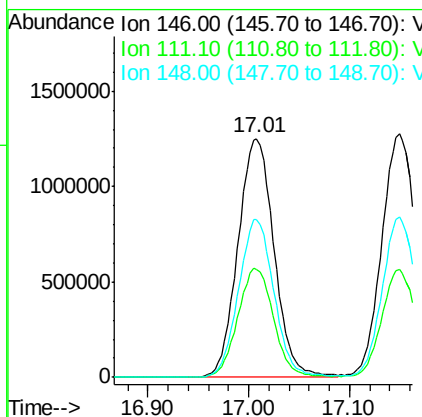
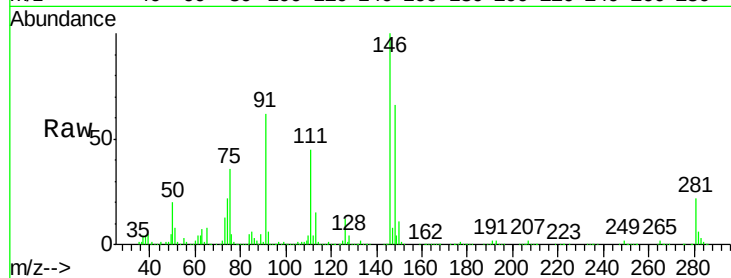
#75
 1,3-Dichlorobenzene
 Concen: 9.831 ppbv
 RT: 17.01 min Scan# 4423
 Delta R.T. -0.00 min
 Lab File: VL035910.D
 Acq: 12 Nov 2020 11:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1112ABS01

Tot Ion:146 Resp: 3102573
 Ion Ratio Lower Upper
 146 100
 111 45.2 21.8 65.4
 148 65.1 32.5 97.5

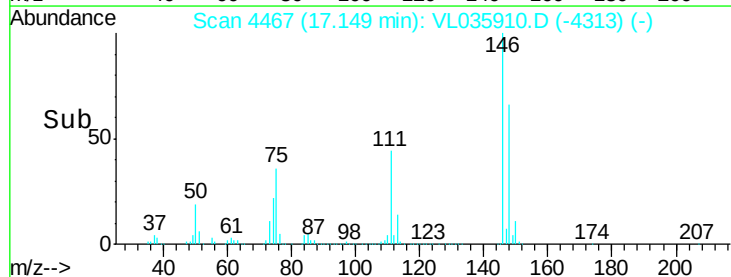
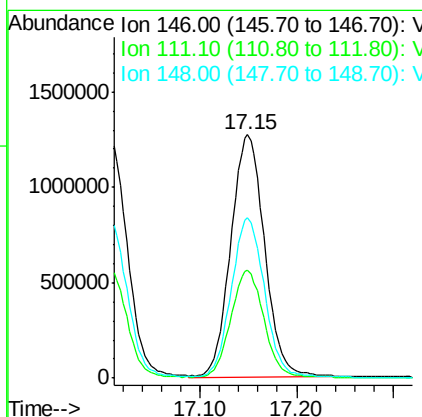
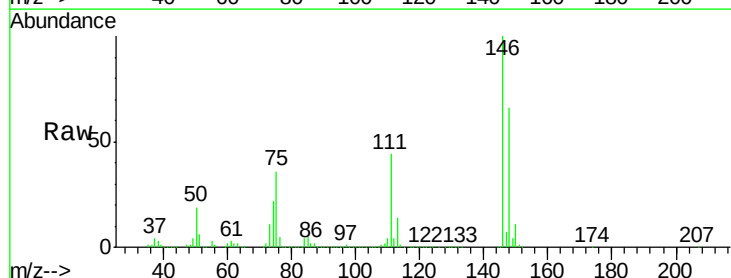
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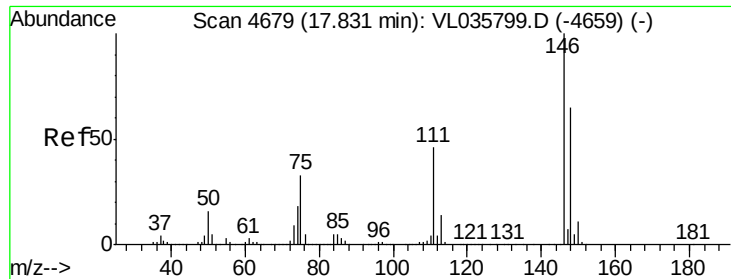
MMDadoda
 11/16/2020 2:28:00 PM



#76
 1,4-Dichlorobenzene
 Concen: 10.100 ppbv
 RT: 17.15 min Scan# 4467
 Delta R.T. -0.00 min
 Lab File: VL035910.D
 Acq: 12 Nov 2020 11:51

Tgt Ion:146 Resp: 3074966
 Ion Ratio Lower Upper
 146 100
 111 43.9 21.3 63.7
 148 65.7 33.0 99.0





#77

1,2-Dichlorobenzene

Concen: 9.940 ppbv

RT: 17.83 min Scan# 4678

Delta R.T. -0.00 min

Lab File: VL035910.D

Acq: 12 Nov 2020 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1112ABS01

Tot Ion:146 Resp: 3058085

Ion Ratio Lower Upper

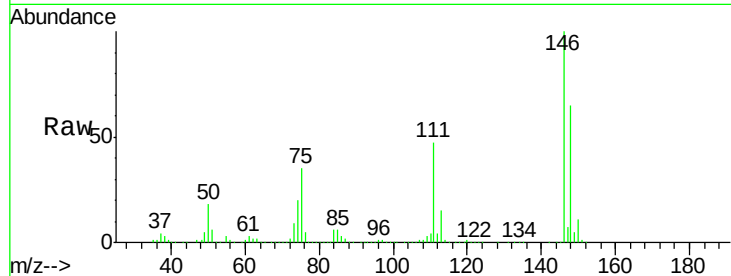
146 100

111 46.5 22.4 67.0

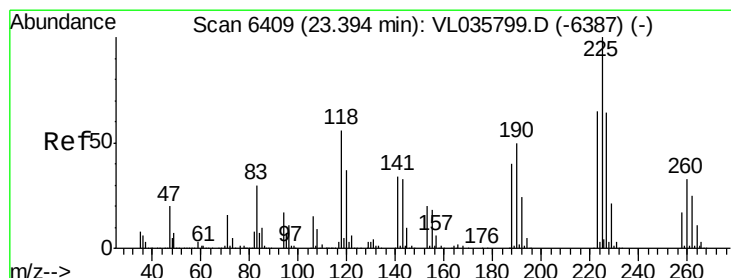
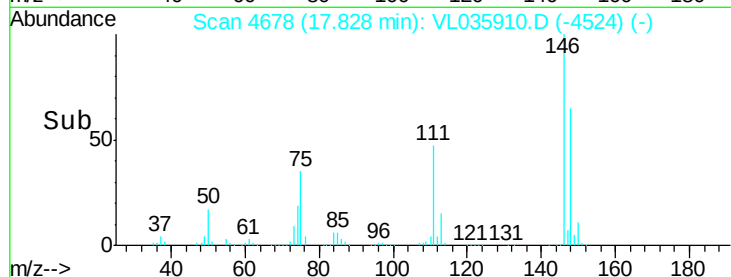
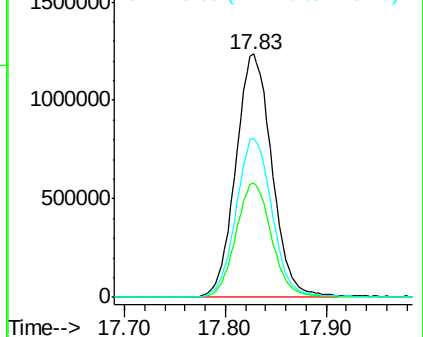
148 65.4 32.5 97.5

Manual Integrations
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11/16/2020 2:28:00 PM



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: 12.314 ppbv

RT: 23.39 min Scan# 6407

Delta R.T. -0.01 min

Lab File: VL035910.D

Acq: 12 Nov 2020 11:51

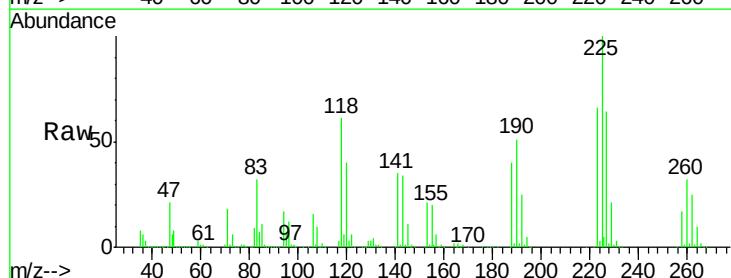
Tgt Ion:225 Resp: 1767596

Ion Ratio Lower Upper

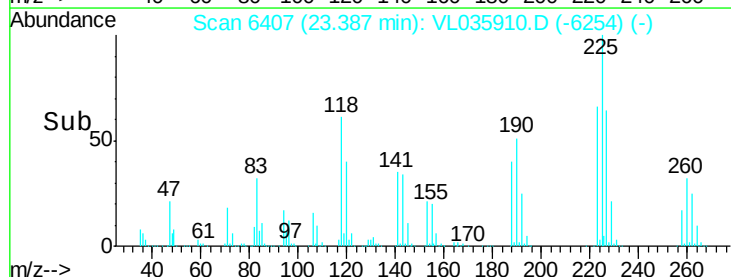
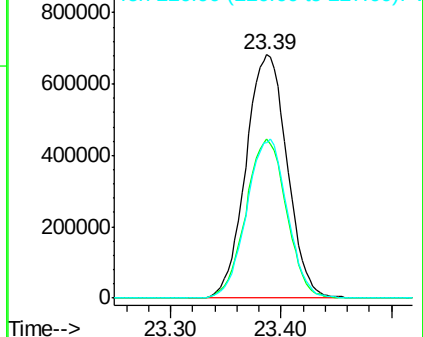
225 100

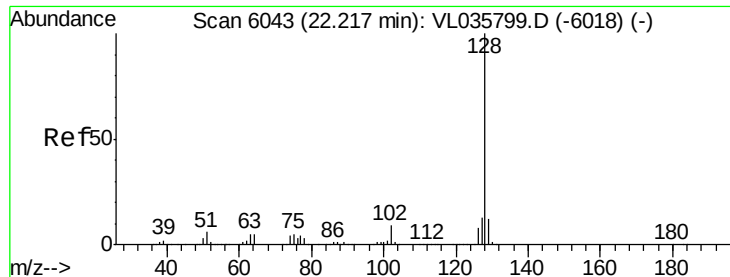
223 64.4 51.0 76.6

227 64.5 51.2 76.8



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: 12.944 ppbv

RT: 22.21 min Scan# 6041

Delta R.T. -0.01 min

Lab File: VL035910.D

Acq: 12 Nov 2020 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1112ABS01

Tot Ion:128 Resp: 4472430

Ion Ratio Lower Upper

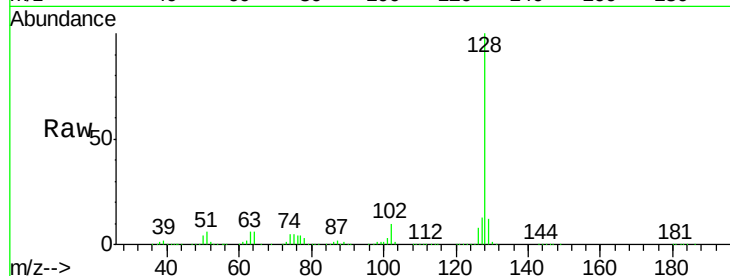
128 100

127 13.2 10.2 15.4

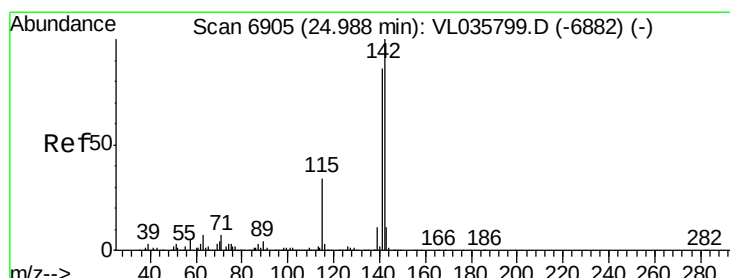
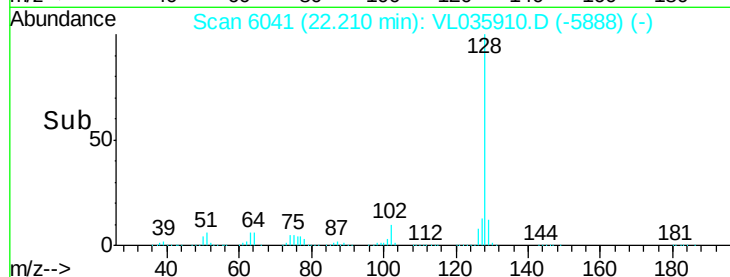
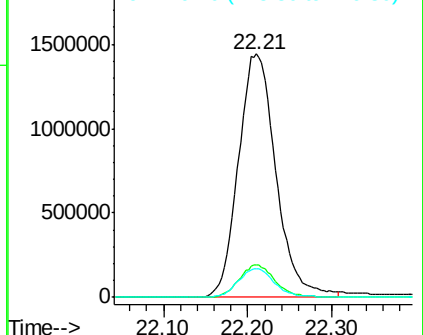
129 11.6 9.2 13.8

Manual Integrations
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Abundance Ion 128.10 (127.80 to 128.80): V
2000000
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 16.152 ppbv

RT: 24.99 min Scan# 6904

Delta R.T. -0.00 min

Lab File: VL035910.D

Acq: 12 Nov 2020 11:51

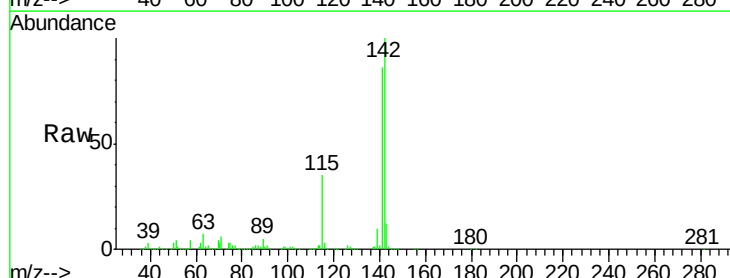
Tgt Ion:142 Resp: 909486

Ion Ratio Lower Upper

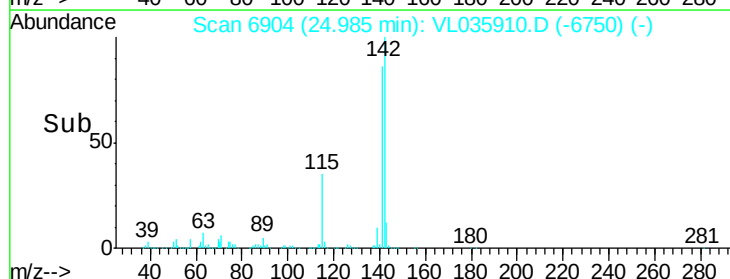
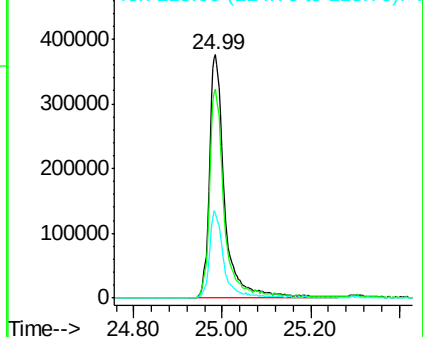
142 100

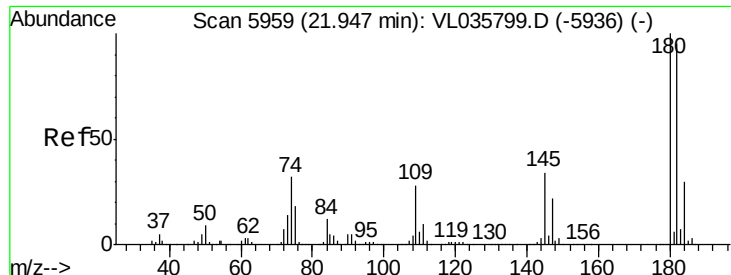
141 83.8 67.8 101.8

115 34.3 28.1 42.1



Abundance Ion 142.00 (141.70 to 142.70): V
500000
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





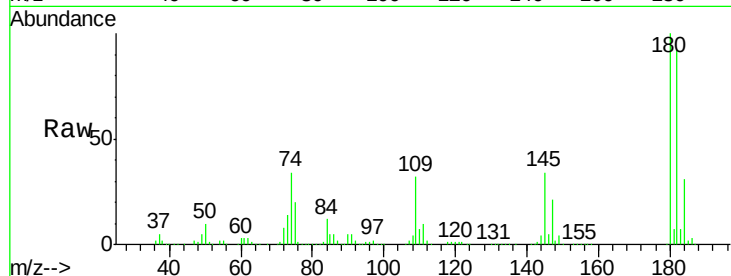
#81
 1,2,4-Trichlorobenzene
 Concen: 11.910 ppbv
 RT: 21.94 min Scan# 5957
 Delta R.T. -0.01 min
 Lab File: VL035910.D
 Acq: 12 Nov 2020 11:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1112ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.9	77.2	115.8
184	31.2	24.7	37.1

Manual Integrations
 APPROVED

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 11/16/2020 2:28:00 PM



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

