

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110320\
 Data File : VL035805.D
 Acq On : 3 Nov 2020 14:18
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 11/5/2020 2:13:31 PM

Quant Time: Nov 03 14:47:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 03 14:47:38 2020
 QLast Update : Tue Nov 03 11:09:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1223920	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	5676225	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	5489098	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3785639	9.20	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.00%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	2768312	13.785	ppbv	98
3) Chlorodifluoromethane	2.98	51	2009598	15.262	ppbv	98
4) Chloromethane	3.13	50	1013474	14.328	ppbv	100
5) Vinyl Chloride	3.25	62	1315843	15.728	ppbv	98
6) Bromomethane	3.47	94	1107742	15.663	ppbv	98
7) Chloroethane	3.55	64	490240	15.977	ppbv	98
8) Dichlorotetrafluoroethane	3.18	85	3614568	14.839	ppbv	99
9) Propene	3.00	41	770356	16.114	ppbv	100
10) Heptane	8.12	43	2028974	15.224	ppbv	94
11) Trichlorofluoromethane	3.94	101	3852518	13.445	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.48	101	2985274	13.976	ppbv	95
13) Ethanol	3.60	45	129756	11.006	ppbv	96
14) Bromoethene	3.73	108	1503764	16.713	ppbv	98
15) Acetone	3.84	43	1676043	12.727	ppbv	95
16) 1,3-Butadiene	3.32	39	786571	16.326	ppbv	93
17) tert-Butyl alcohol	4.29	59	2279873	15.893	ppbv	100
18) 1,1-Dichloroethene	4.28	96	1457312	15.582	ppbv	100
19) Isopropyl Alcohol	3.96	45	1031025	14.392	ppbv	# 1
20) Methylene Chloride	4.34	84	1234556	12.762	ppbv	99
21) Allyl Chloride	4.40	41	1086857	17.026	ppbv	98
22) trans-1,2-Dichloroethene	4.88	96	1480292	14.982	ppbv	98
23) Vinyl Acetate	5.07	43	2471431	15.321	ppbv	97
24) 1,1-Dichloroethane	5.01	63	2515695	14.318	ppbv	98
25) Ethyl Acetate	5.67	43	3480004	14.685	ppbv	98
26) Hexane	5.68	57	1963432	15.120	ppbv	95
27) Carbon Disulfide	4.54	76	3316172	17.133	ppbv	99
28) Methyl tert-Butyl Ether	5.03	73	3731893	18.130	ppbv	99
29) Chloroform	5.75	83	3950882	14.982	ppbv	99
30) Cyclohexane	7.13	84	2348645	18.331	ppbv	90
31) cis-1,2-Dichloroethene	5.55	61	2164856	17.270	ppbv	93
32) 1,1,1-Trichloroethane	6.51	97	4015695	17.274	ppbv	98
34) 2-Butanone	5.24	43	2257170	12.023	ppbv	92
35) Carbon Tetrachloride	7.01	117	3972080	13.422	ppbv	99
36) Benzene	6.89	78	5344325	14.449	ppbv	99
37) 1,2-Dichloroethane	6.31	62	2500839	12.973	ppbv	98
38) Trichloroethene	7.83	130	2531471	13.720	ppbv	99
39) 1,2-Dichloropropane	7.61	63	1803892	13.456	ppbv	95
40) 1,4-Dioxane	7.83	88	807584	13.172	ppbv	91
41) Tetrahydrofuran	6.04	42	1363294	14.414	ppbv	89
42) Bromodichloromethane	7.79	83	4304619	13.862	ppbv	97
43) Methyl Methacrylate	8.01	69	2213734	15.049	ppbv	91

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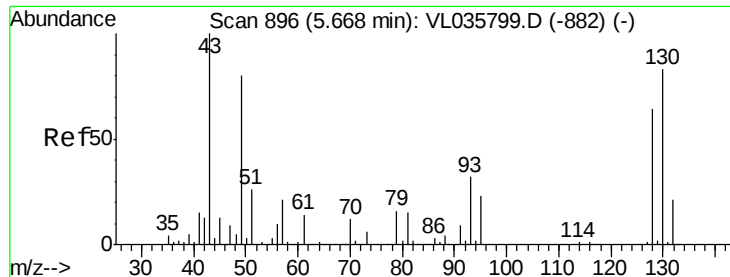
Manual Integrations
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 03 2020
 QLast Update : Tue Nov 03 11:09:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	6373845	12.009	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	2646592	17.820	ppbv	99
46) cis-1,3-Dichloropropene	8.71	75	3098974	16.928	ppbv	95
47) 1,1,2-Trichloroethane	9.48	97	2527340	13.162	ppbv	99
48) Dibromochloromethane	10.31	129	4079306	13.959	ppbv	99
49) Bromoform	13.05	173	3423230	13.805	ppbv	99
50) 4-Methyl-2-Pentanone	8.74	43	3398229	12.392	ppbv	94
51) 2-Hexanone	10.13	43	2850540	12.902	ppbv #	93
52) Tetrachloroethene	11.23	164	2346141	13.191	ppbv	96
53) Toluene	9.81	91	6351778	14.564	ppbv	97
54) 1,2-Dibromoethane	10.62	107	3856592	13.413	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.13	131	3093323	13.440	ppbv #	92
57) Chlorobenzene	12.15	112	5168582	12.467	ppbv	98
58) Ethyl Benzene	12.72	91	7868699	14.282	ppbv	90
59) m/p-Xylene	13.00	91	12818395m	26.642	ppbv	
60) o-Xylene	13.70	91	6292470	12.929	ppbv	96
61) Styrene	13.54	104	5350925	15.900	ppbv	98
62) Isopropylbenzene	14.67	105	9283843	12.298	ppbv	94
63) 1,1,2,2-Tetrachloroethane	13.69	83	4448193	11.146	ppbv	99
64) n-propylbenzene	15.57	120	3076998	13.927	ppbv	77
65) tert-Butylbenzene	16.75	119	8359817	12.180	ppbv	98
66) Benzyl Chloride	17.00	91	3667603	17.637	ppbv	96
67) sec-Butylbenzene	17.30	105	10651946	11.239	ppbv	93
69) p-Isopropyltoluene	17.66	119	9222532	11.960	ppbv	96
70) n-Butylbenzene	18.56	91	8756489	11.028	ppbv	93
71) 2-Chlorotoluene	15.46	91	7201763	13.079	ppbv	93
72) 4-Ethyltoluene	15.85	105	7634539	13.242	ppbv	97
73) 1,3,5-Trimethylbenzene	16.00	105	7005410	12.858	ppbv	94
74) 1,2,4-Trimethylbenzene	16.77	105	6934183	11.290	ppbv	95
75) 1,3-Dichlorobenzene	17.01	146	4679647	11.160	ppbv	99
76) 1,4-Dichlorobenzene	17.15	146	4788048	11.946	ppbv	99
77) 1,2-Dichlorobenzene	17.83	146	4664271	11.777	ppbv	98
78) Hexachloro-1,3-Butadiene	23.39	225	2046752	9.367	ppbv	100
79) Naphthalene	22.21	128	6210217	10.601	ppbv	98
80) Naphthalene, 2-methyl-	24.98	142	1529226	11.067	ppbv	98
81) 1,2,4-Trichlorobenzene	21.94	180	3235638	10.658	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.00 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 49 Resp: 1223920

Ion Ratio Lower Upper

49 100

128 93.6 41.5 124.6

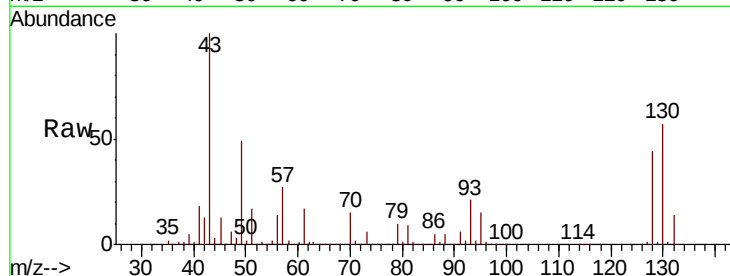
130 119.5 53.7 161.1

Manual Integrations

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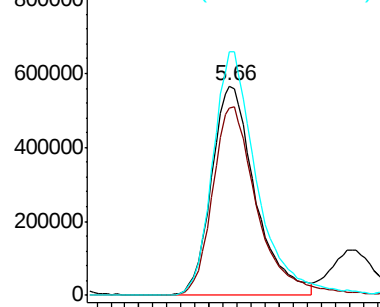
11/5/2020 2:13:31 PM



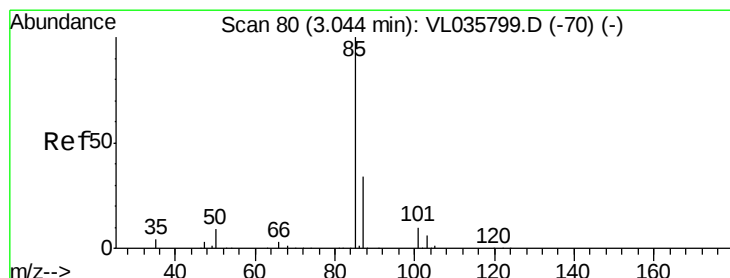
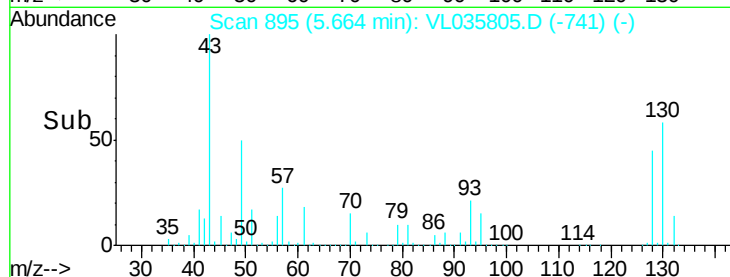
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



Time-->



#2

Dichlorodifluoromethane

Concen: 13.785 ppbv

RT: 3.04 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL035805.D

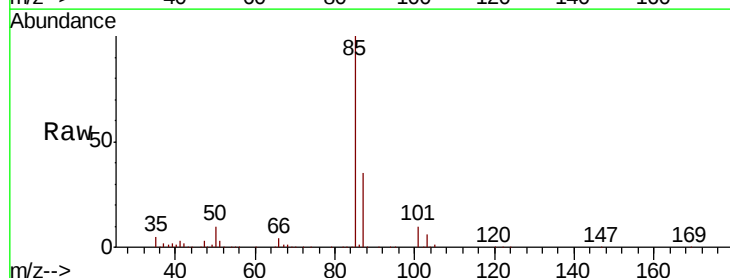
Acq: 3 Nov 2020 14:18

Tgt Ion: 85 Resp: 2768312

Ion Ratio Lower Upper

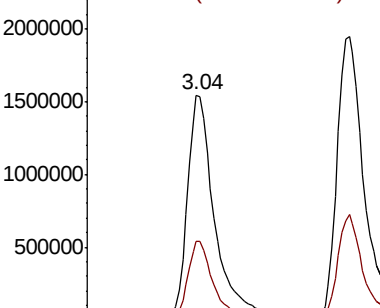
85 100

87 35.0 27.1 40.7

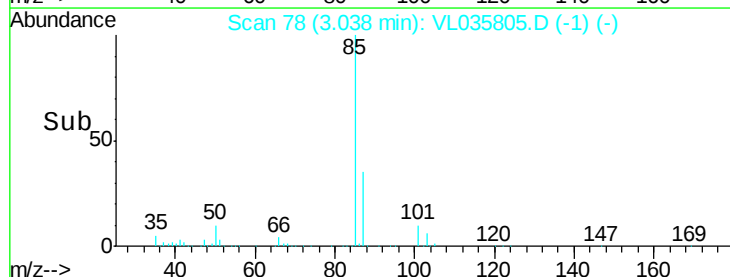


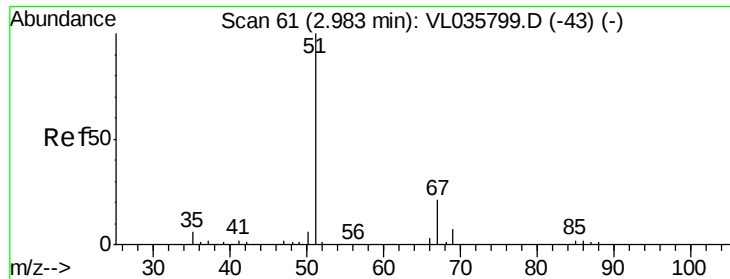
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



Time-->





#3

Chlorodifluoromethane

Concen: 15.262 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.00 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 51 Resp: 2009598

Ion Ratio Lower Upper

51 100

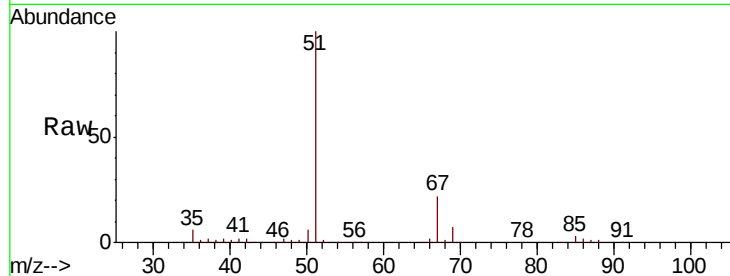
67 22.2 17.0 25.4

Manual Integrations

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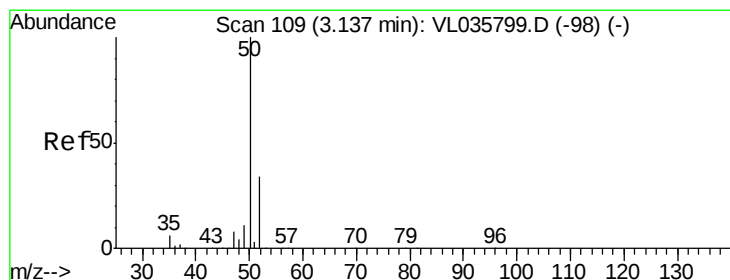
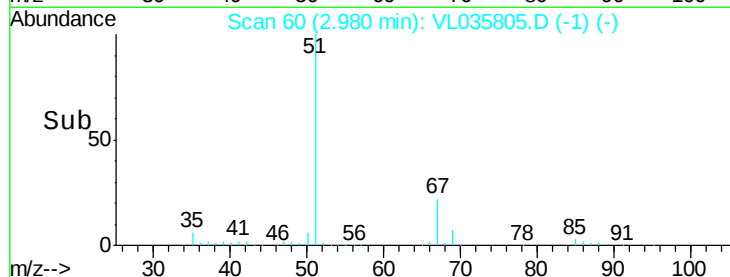
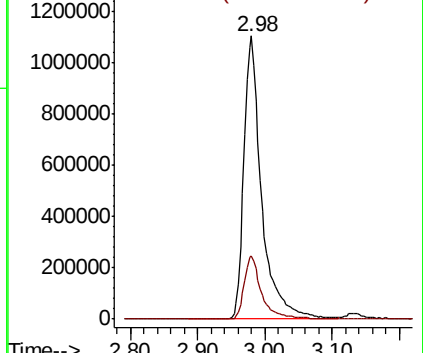
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 14.328 ppbv

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL035805.D

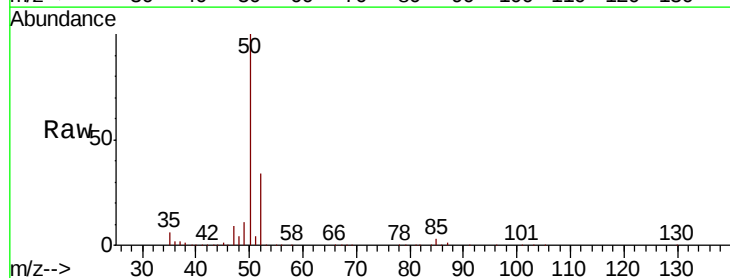
Acq: 3 Nov 2020 14:18

Tgt Ion: 50 Resp: 1013474

Ion Ratio Lower Upper

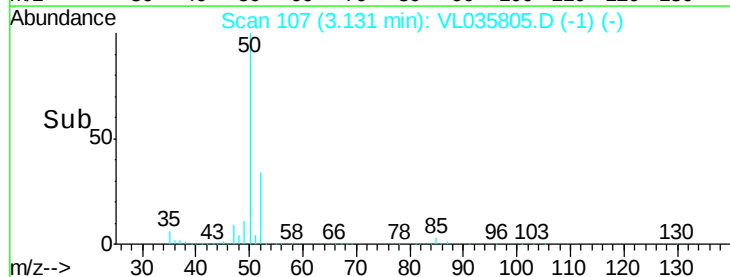
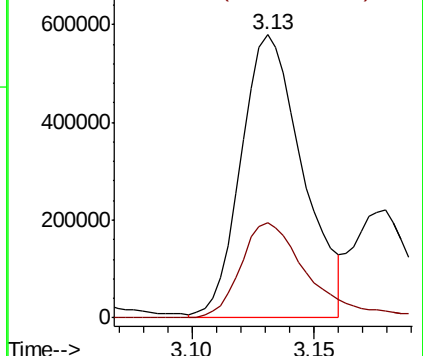
50 100

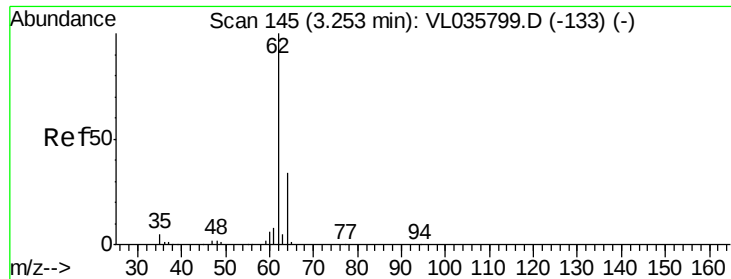
52 33.9 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 15.728 ppbv

RT: 3.25 min Scan# 143

Delta R.T. -0.01 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 1315843

Ion Ratio Lower Upper

62 100

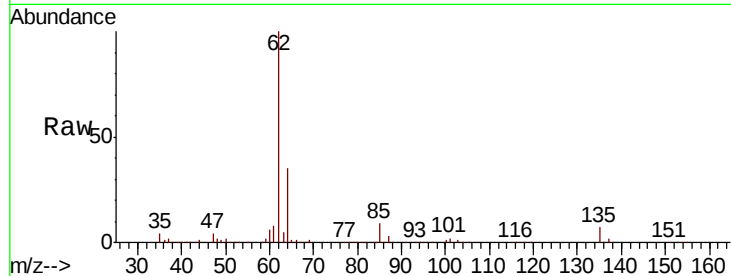
64 34.9 26.9 40.3

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.25

800000

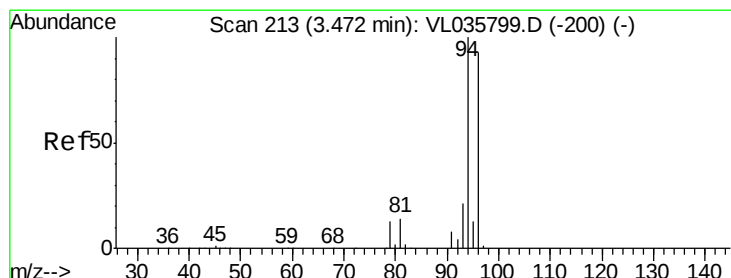
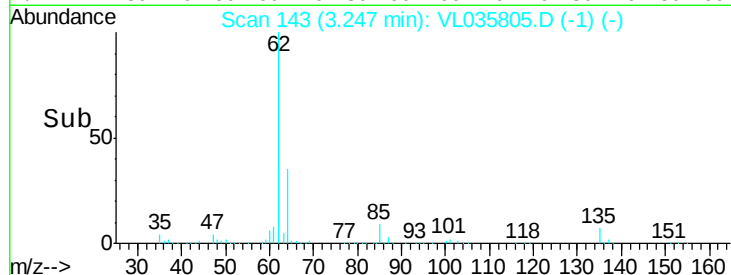
600000

400000

200000

0

Time--> 3.15 3.20 3.25 3.30 3.35



#6

Bromomethane

Concen: 15.663 ppbv

RT: 3.47 min Scan# 211

Delta R.T. -0.01 min

Lab File: VL035805.D

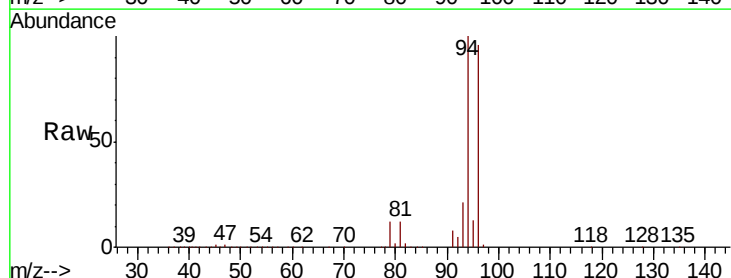
Acq: 3 Nov 2020 14:18

Tgt Ion: 94 Resp: 1107742

Ion Ratio Lower Upper

94 100

96 95.6 74.6 111.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.47

600000

500000

400000

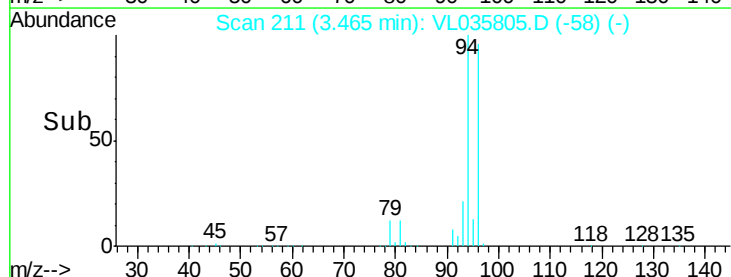
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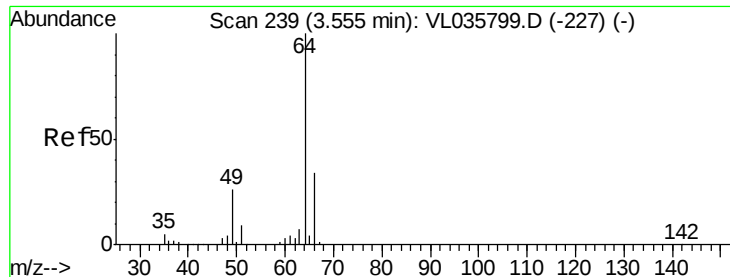
200000

100000

0

Time--> 3.40 3.45 3.50 3.55





#7

Chloroethane

Concen: 15.977 ppbv

RT: 3.55 min Scan# 237

Delta R.T. -0.01 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 490240

Ion Ratio Lower Upper

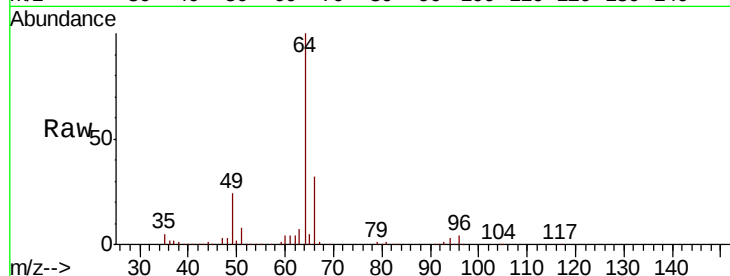
64 100

66 32.4 27.0 40.6

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.55

250000

200000

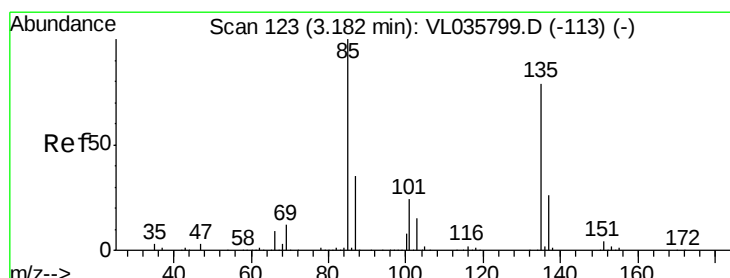
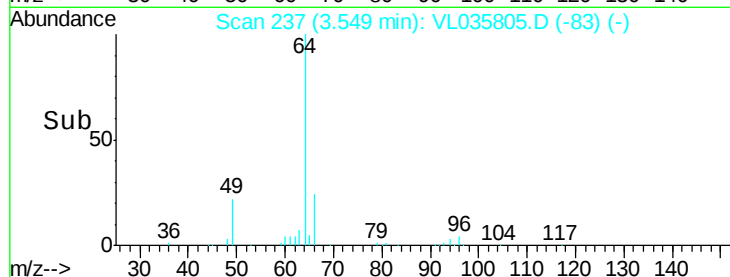
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100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 14.839 ppbv

RT: 3.18 min Scan# 122

Delta R.T. -0.00 min

Lab File: VL035805.D

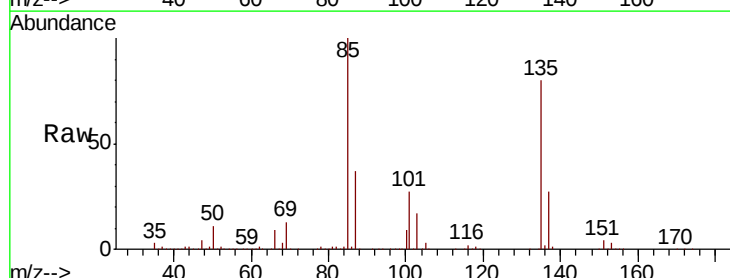
Acq: 3 Nov 2020 14:18

Tgt Ion: 85 Resp: 3614568

Ion Ratio Lower Upper

85 100

135 80.1 64.6 96.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

2000000

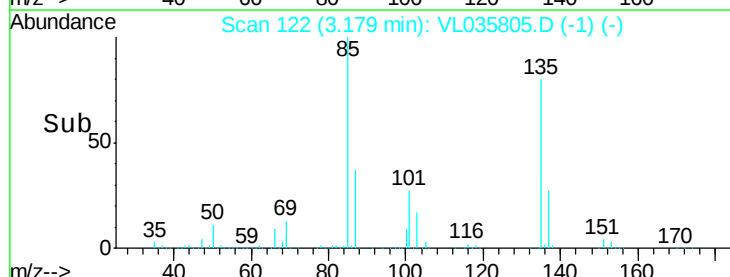
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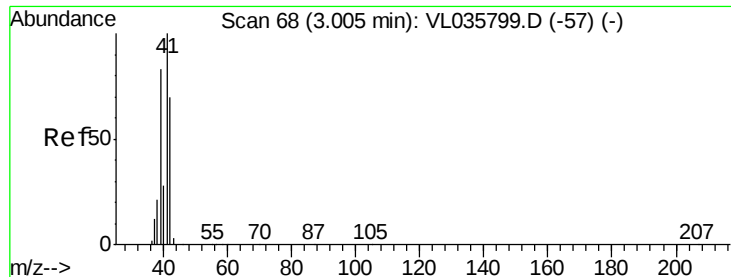
1000000

500000

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Time-->





#9

Propene

Concen: 16.114 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 770356

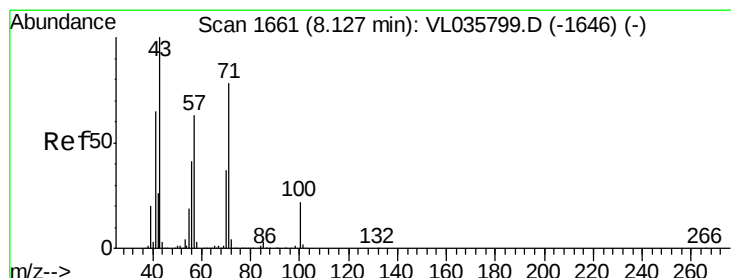
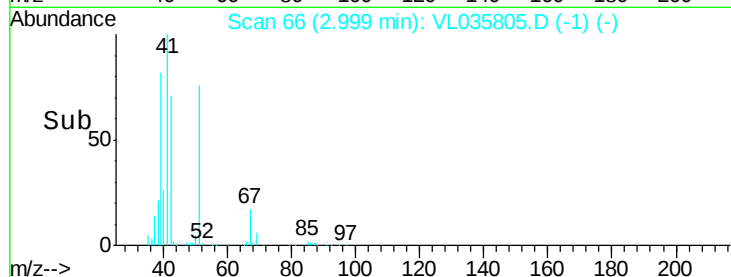
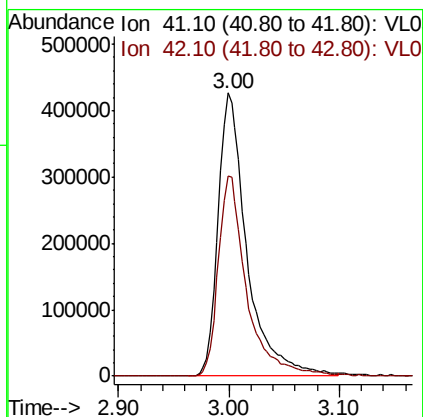
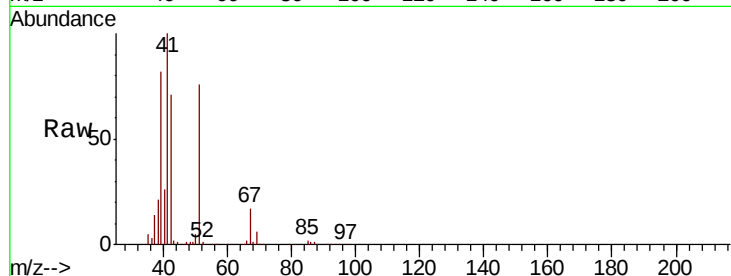
Ion Ratio Lower Upper

41 100

42 70.5 56.2 84.4

Manual Integrations
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#10

Heptane

Concen: 15.224 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. -0.00 min

Lab File: VL035805.D

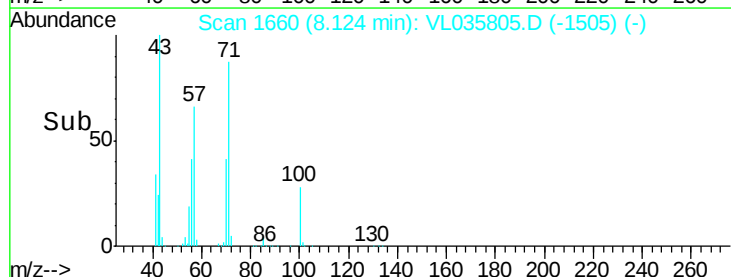
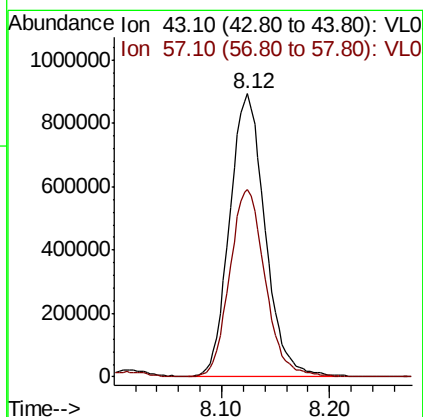
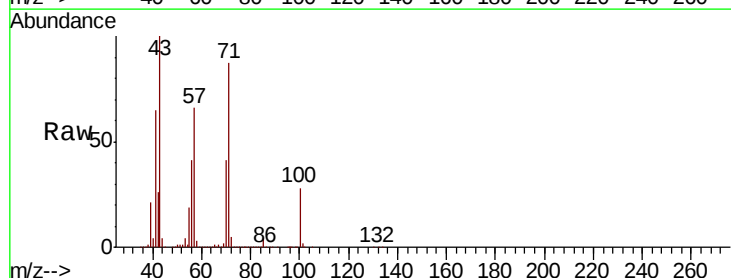
Acq: 3 Nov 2020 14:18

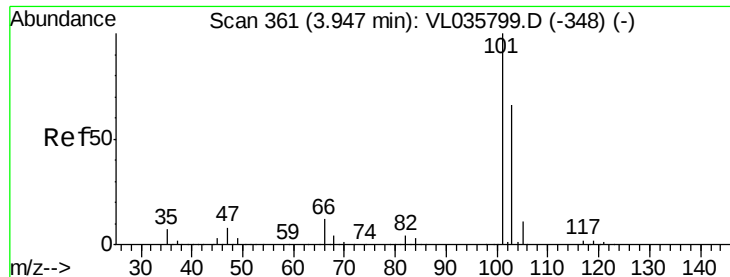
Tgt Ion: 43 Resp: 2028974

Ion Ratio Lower Upper

43 100

57 66.9 50.0 75.0





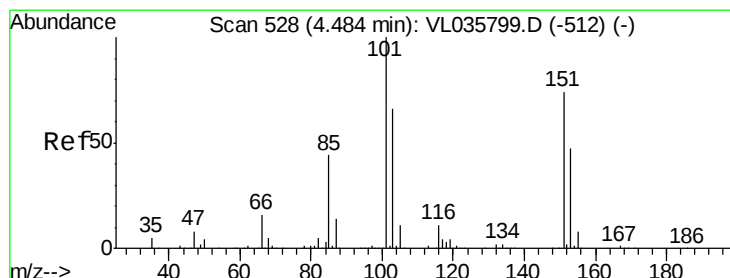
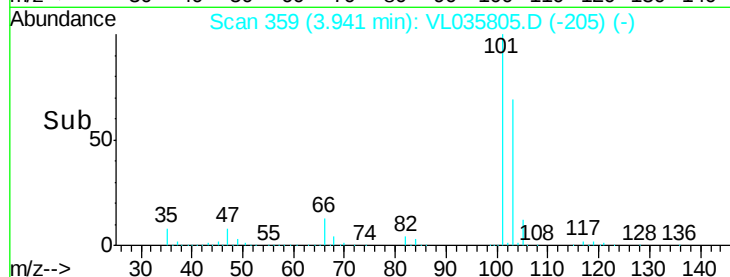
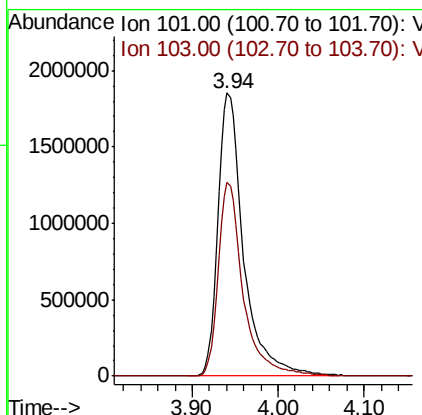
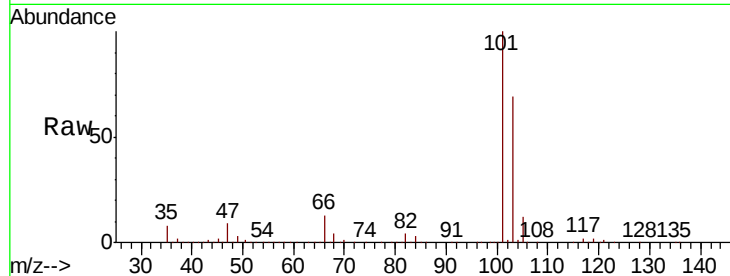
#11
 Trichlorofluoromethane
 Concen: 13.445 ppbv
 RT: 3.94 min Scan# 359
 Delta R.T. -0.01 min
 Lab File: VL035805.D
 Acq: 3 Nov 2020 14:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:101 Resp: 3852518
 Ion Ratio Lower Upper
 101 100
 103 68.7 53.0 79.4

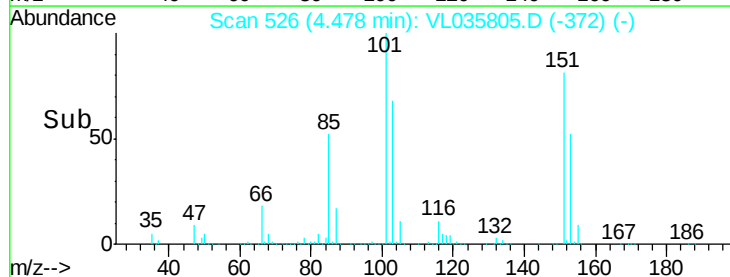
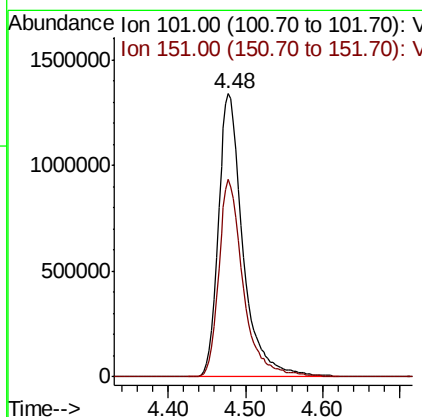
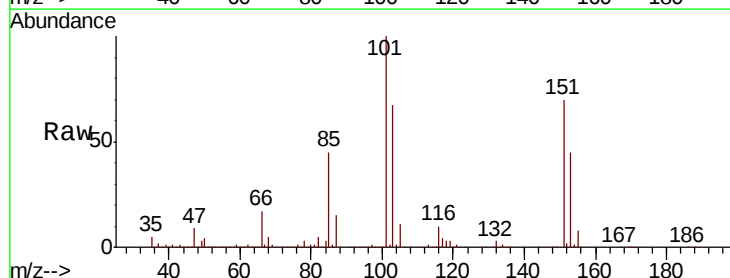
Manual Integrations
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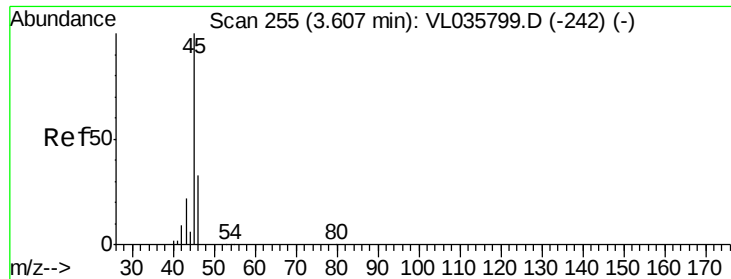
MMDadoda
 11/5/2020 2:13:31 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 13.976 ppbv
 RT: 4.48 min Scan# 526
 Delta R.T. -0.01 min
 Lab File: VL035805.D
 Acq: 3 Nov 2020 14:18

Tgt Ion:101 Resp: 2985274
 Ion Ratio Lower Upper
 101 100
 151 69.7 58.9 88.3





#13

Ethanol

Concen: 11.006 ppbv

RT: 3.60 min Scan# 253

Delta R.T. -0.01 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 45 Resp: 129756

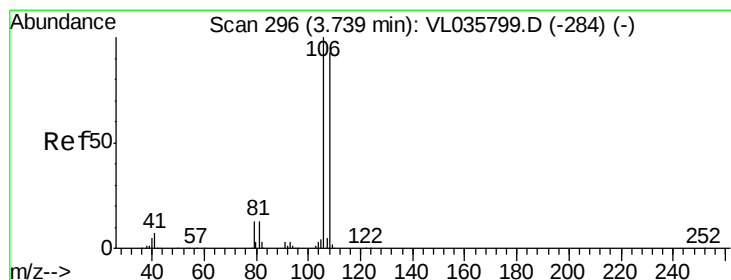
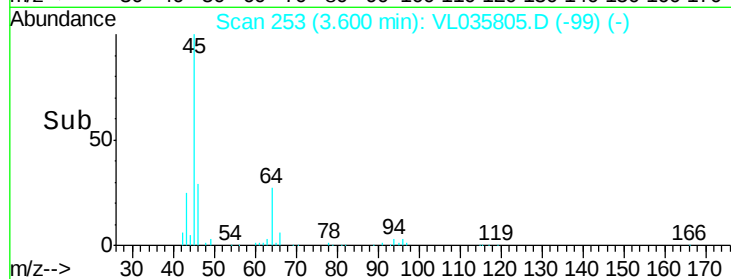
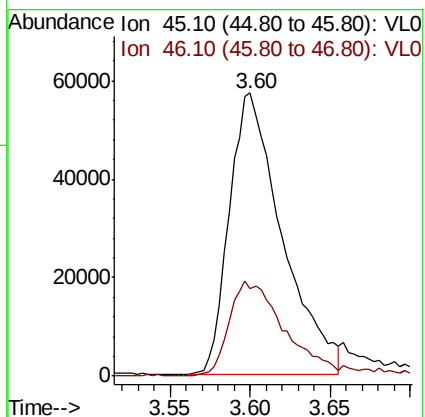
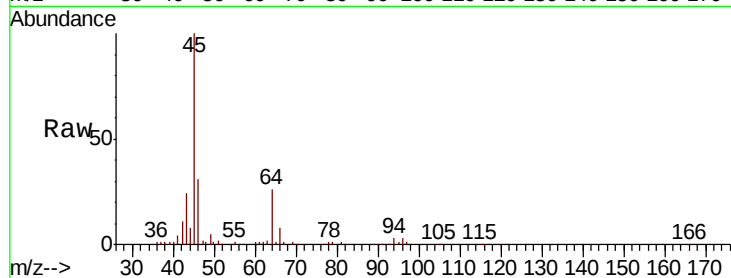
Ion Ratio Lower Upper

45 100

46 38.1 16.1 64.5

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#14

Bromoethene

Concen: 16.713 ppbv

RT: 3.73 min Scan# 294

Delta R.T. -0.01 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

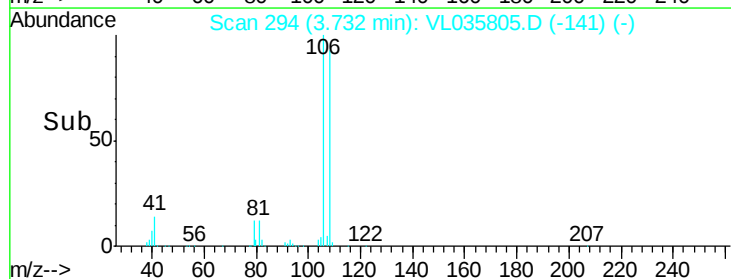
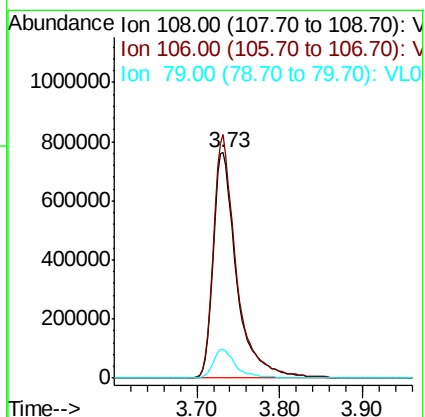
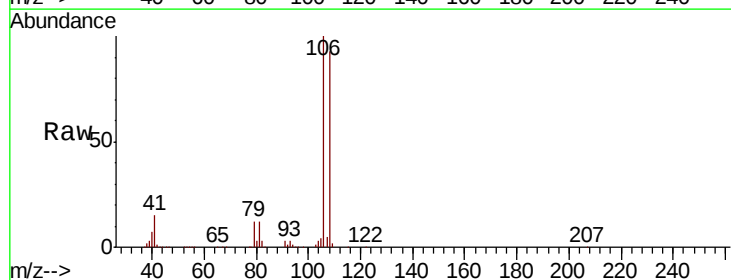
Tgt Ion: 108 Resp: 1503764

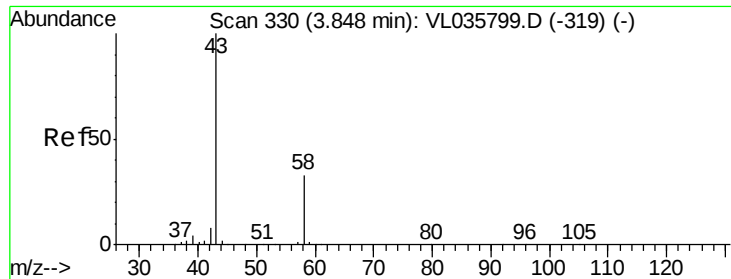
Ion Ratio Lower Upper

108 100

106 105.5 85.3 127.9

79 12.5 11.6 17.4





#15

Acetone

Concen: 12.727 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.01 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 1676043

Ion Ratio Lower Upper

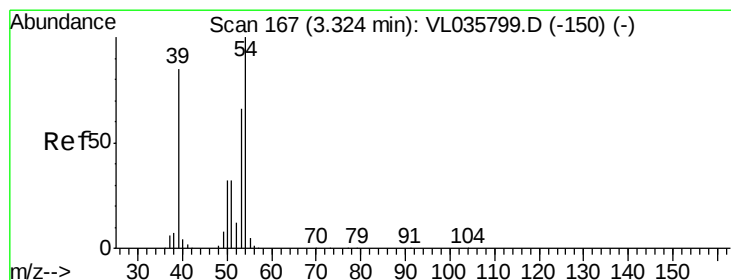
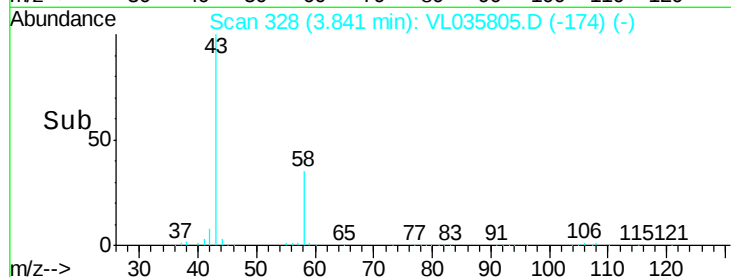
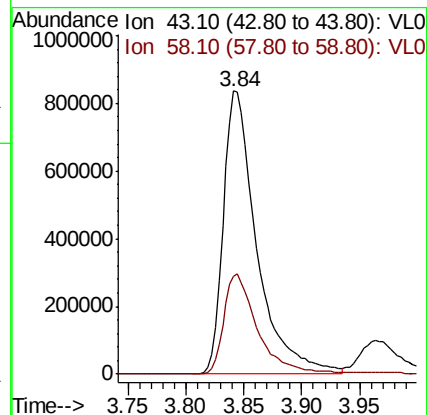
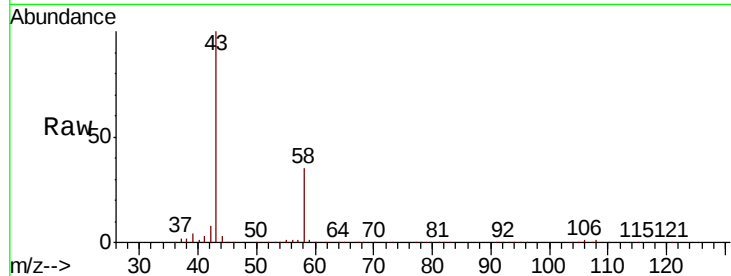
43 100

58 37.1 27.5 41.3

Manual Integrations
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#16

1,3-Butadiene

Concen: 16.326 ppbv

RT: 3.32 min Scan# 165

Delta R.T. -0.01 min

Lab File: VL035805.D

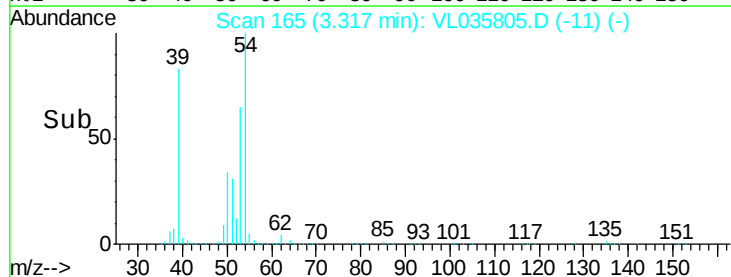
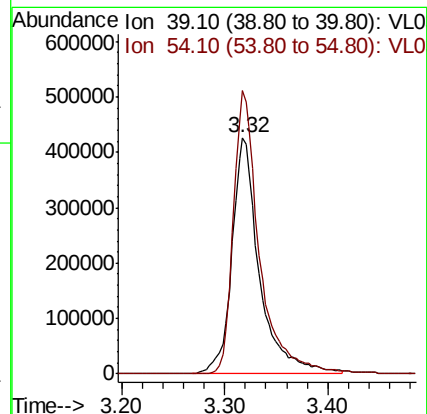
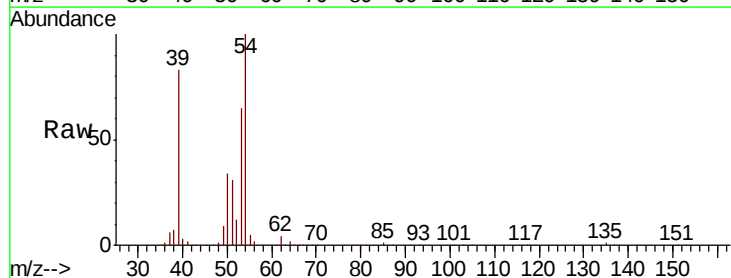
Acq: 3 Nov 2020 14:18

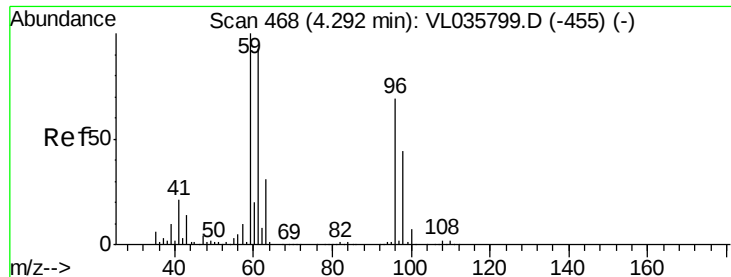
Tgt Ion: 39 Resp: 786571

Ion Ratio Lower Upper

39 100

54 116.1 87.1 130.7





#17

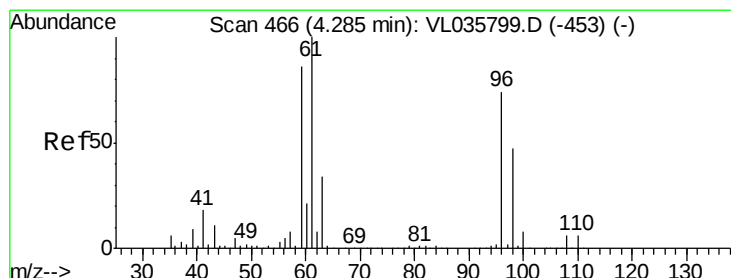
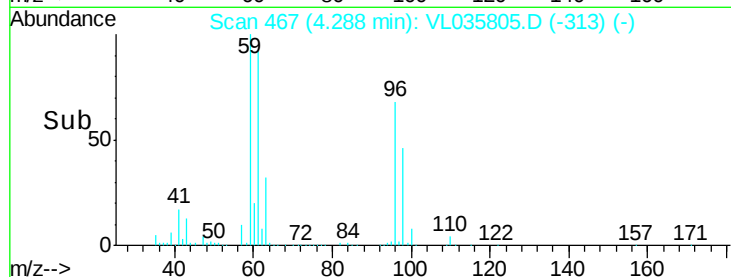
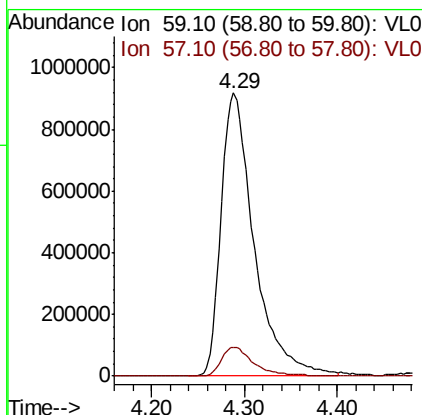
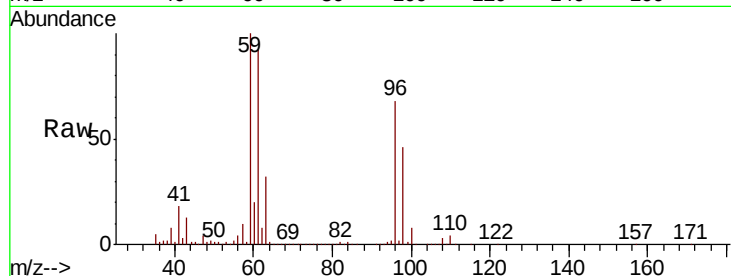
tert-Butyl alcohol
 Concen: 15.893 ppbv
 RT: 4.29 min Scan# 467
 Delta R.T. -0.00 min
 Lab File: VL035805.D
 Acq: 3 Nov 2020 14:18

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC015

Tot Ion: 59 Resp: 2279873
 Ion Ratio Lower Upper
 59 100
 57 10.3 8.2 12.4

Manual Integrations
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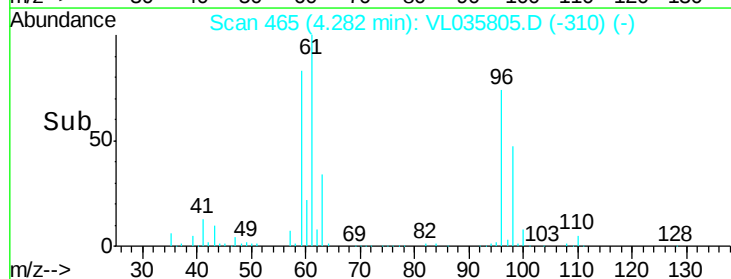
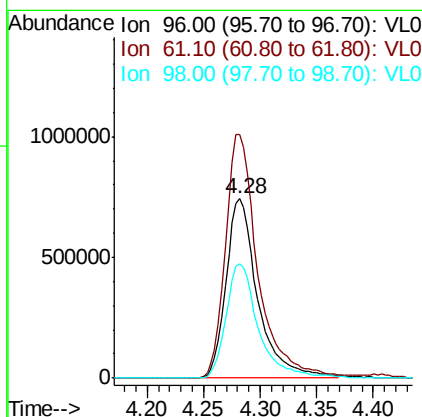
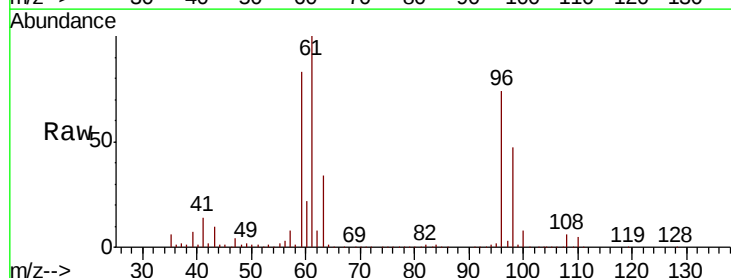
MMDadoda
 11/5/2020 2:13:31 PM

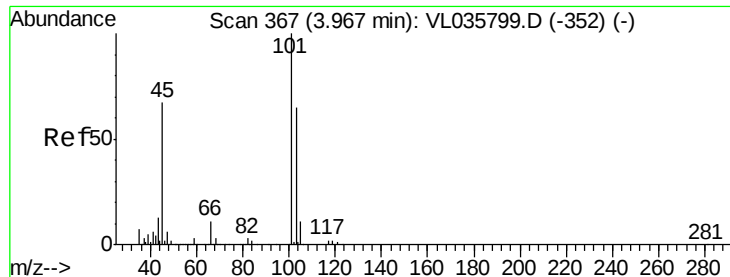


#18

1,1-Dichloroethene
 Concen: 15.582 ppbv
 RT: 4.28 min Scan# 465
 Delta R.T. -0.00 min
 Lab File: VL035805.D
 Acq: 3 Nov 2020 14:18

Tgt Ion: 96 Resp: 1457312
 Ion Ratio Lower Upper
 96 100
 61 135.8 108.5 162.7
 98 63.9 50.7 76.1





#19

Isopropyl Alcohol

Concen: 14.392 ppbv

RT: 3.96 min Scan# 366

Delta R.T. -0.00 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 45 Resp: 1031025

Ion Ratio Lower Upper

45 100

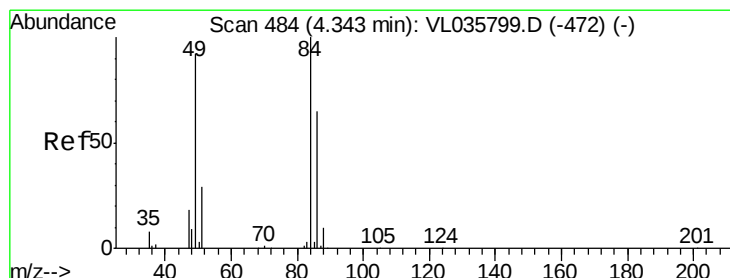
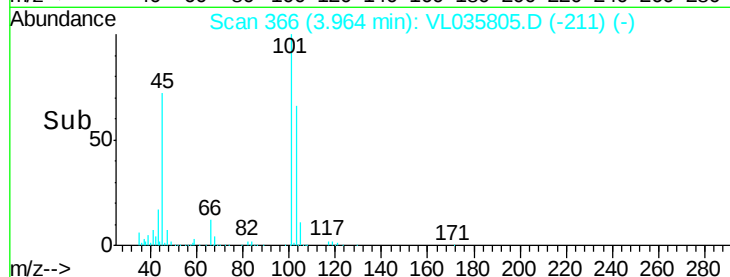
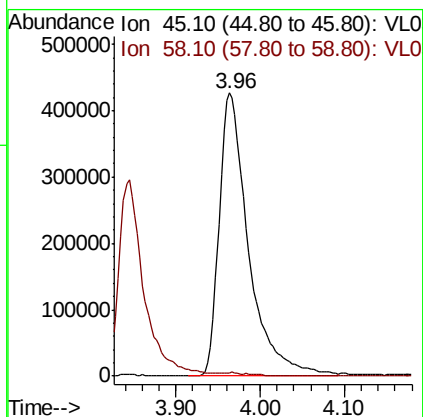
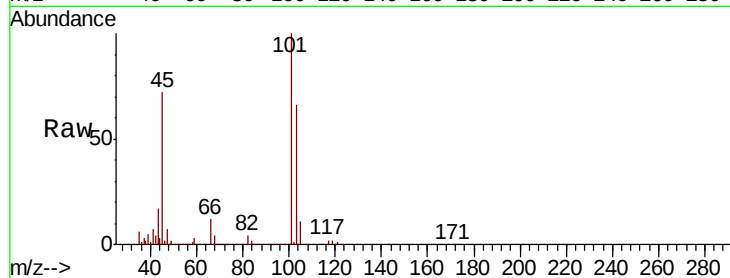
58 58.6 2.6 3.8#

Manual Integrations

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#20

Methylene Chloride

Concen: 12.762 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.01 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

Tgt Ion: 84 Resp: 1234556

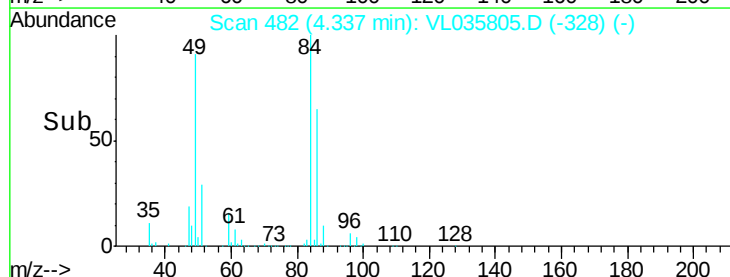
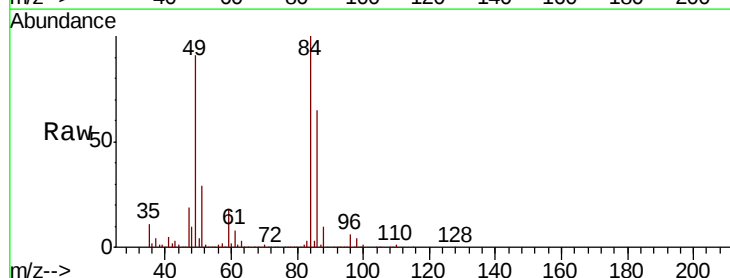
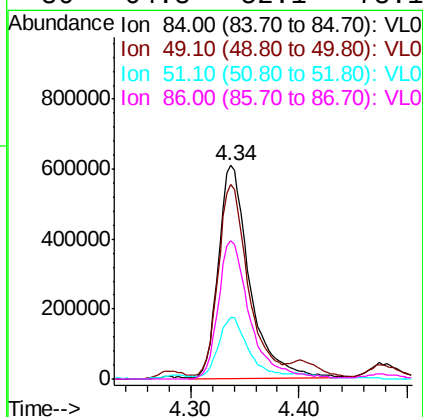
Ion Ratio Lower Upper

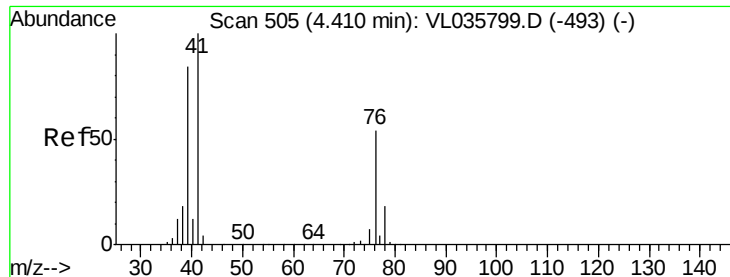
84 100

49 89.9 73.8 110.8

51 28.5 23.0 34.4

86 64.8 52.1 78.1





#21

Allvl Chloride

Concen: 17.026 ppbv

RT: 4.40 min Scan# 503

Delta R.T. -0.01 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 1086857

Ion Ratio Lower Upper

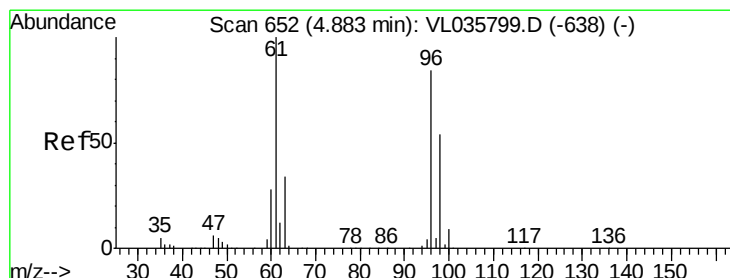
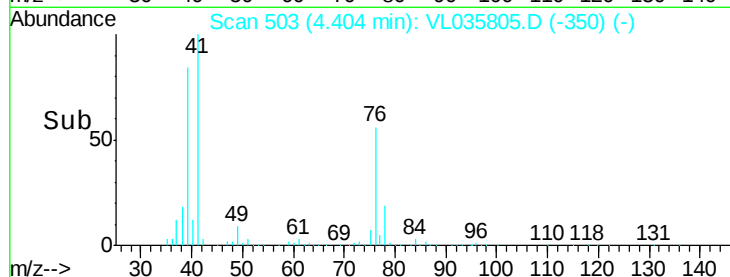
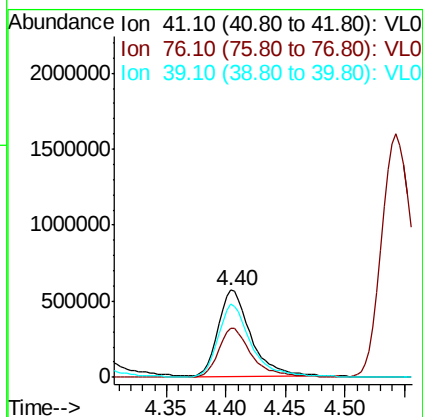
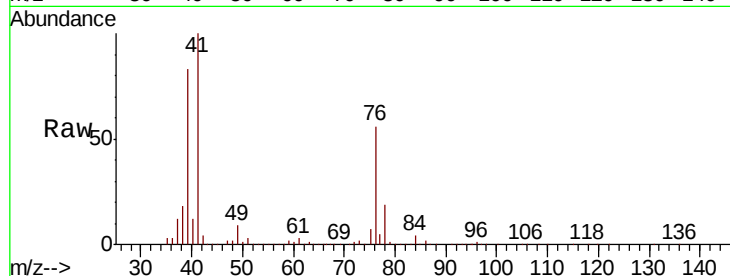
41 100

76 57.5 42.6 63.8

39 83.9 67.0 100.4

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 14.982 ppbv

RT: 4.88 min Scan# 651

Delta R.T. -0.00 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

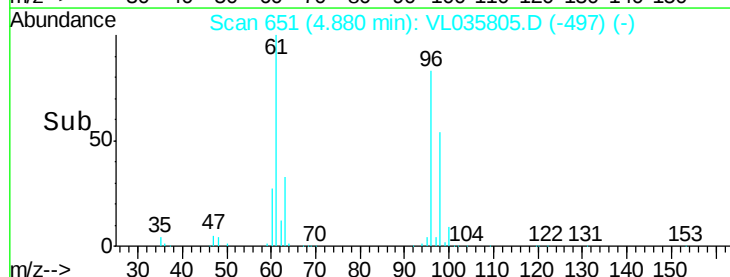
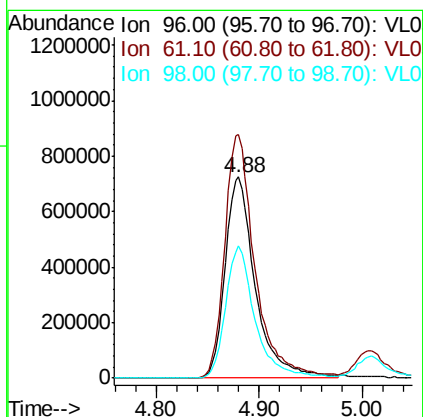
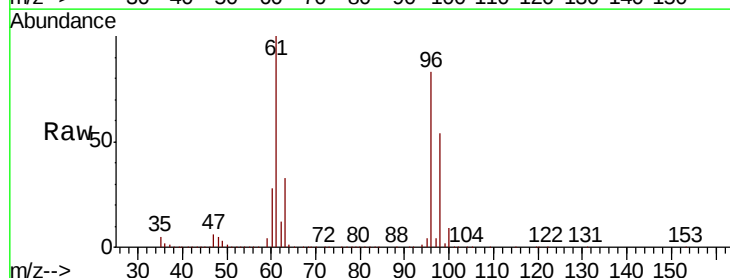
Tgt Ion: 96 Resp: 1480292

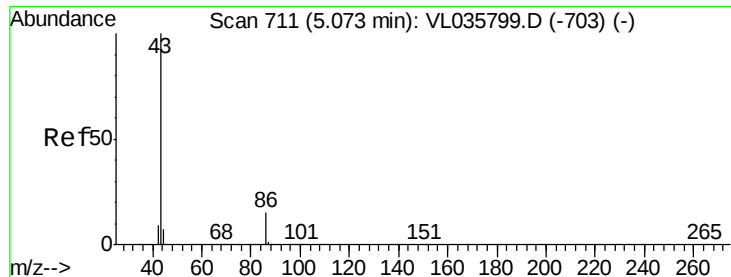
Ion Ratio Lower Upper

96 100

61 121.2 95.4 143.0

98 65.6 51.8 77.6





#23

Vinyl Acetate

Concen: 15.321 ppbv

RT: 5.07 min Scan# 710

Delta R.T. -0.00 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 2471431

Ion Ratio Lower Upper

43 100

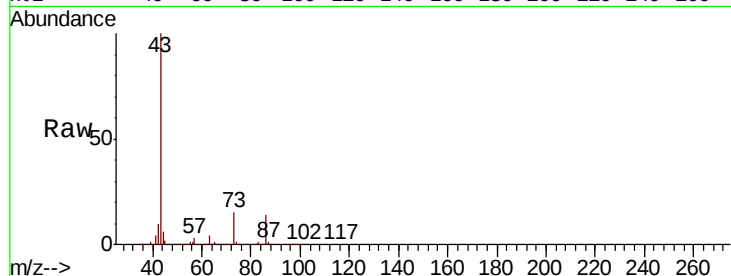
86 14.3 9.8 14.6

42 9.5 8.1 12.1

44 4.7 4.2 6.4

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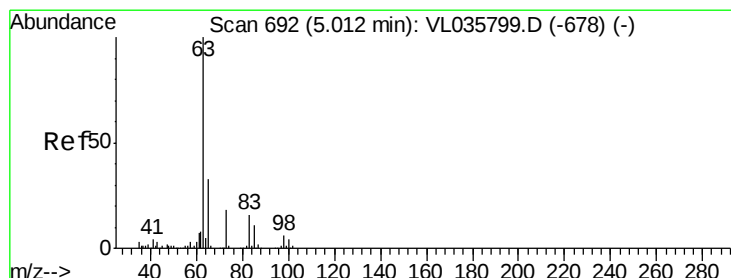
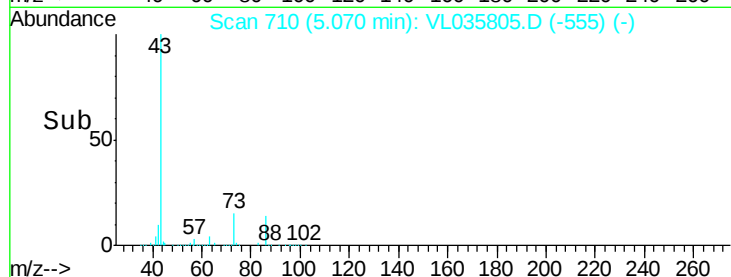
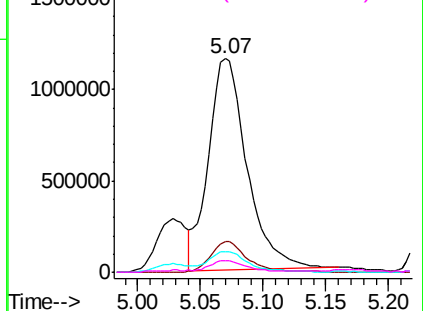


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 14.318 ppbv

RT: 5.01 min Scan# 690

Delta R.T. -0.01 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

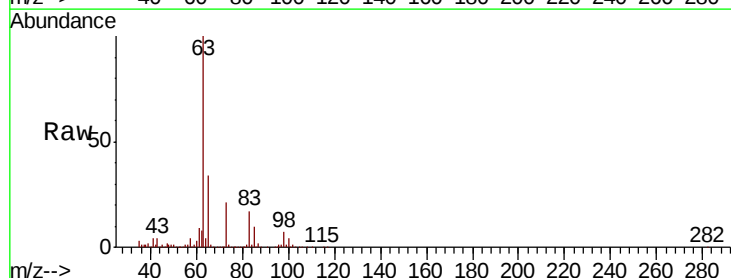
Tgt Ion: 63 Resp: 2515695

Ion Ratio Lower Upper

63 100

98 6.5 3.0 9.2

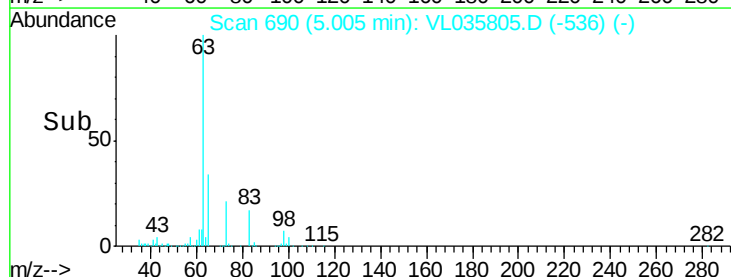
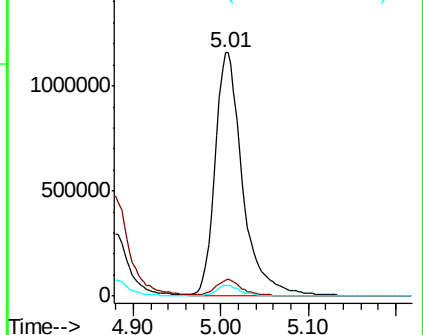
100 4.3 1.8 5.4



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: 14.685 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.01 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 3480004

Ion Ratio Lower Upper

43 100

45 10.9 8.5 12.7

61 14.1 10.7 16.1

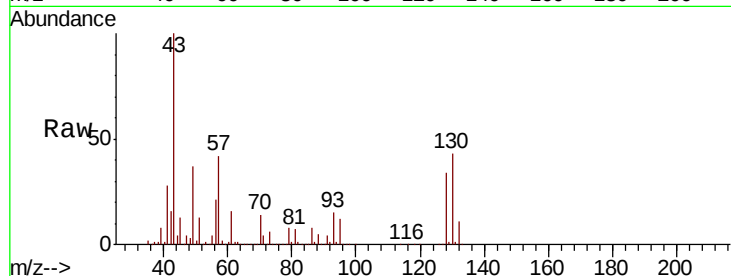
70 12.0 8.6 12.8

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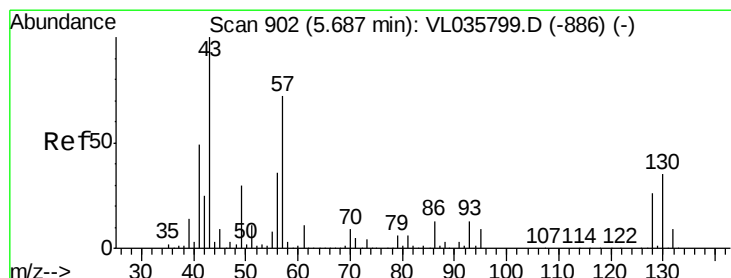
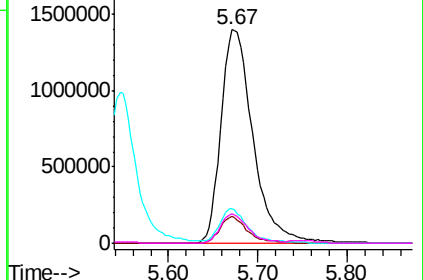
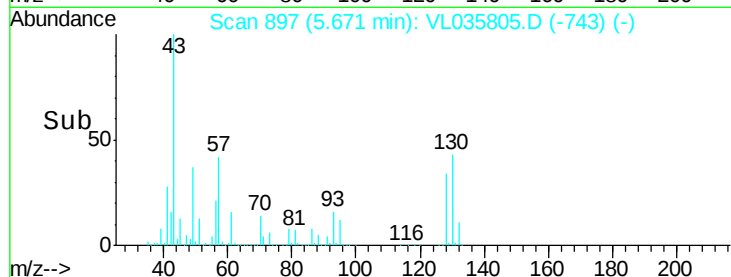


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 15.120 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.00 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

Tgt Ion: 57 Resp: 1963432

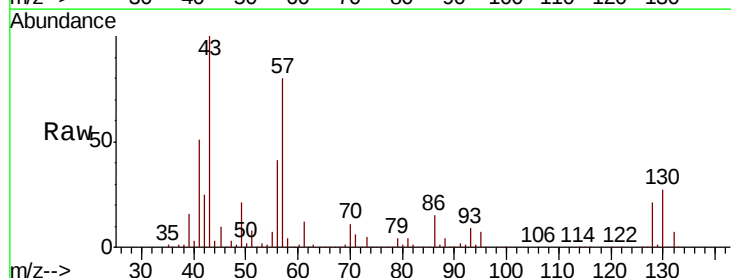
Ion Ratio Lower Upper

57 100

41 70.3 58.9 88.3

43 177.9 150.2 225.2

56 53.1 42.4 63.6

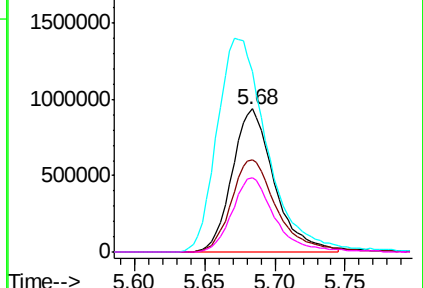
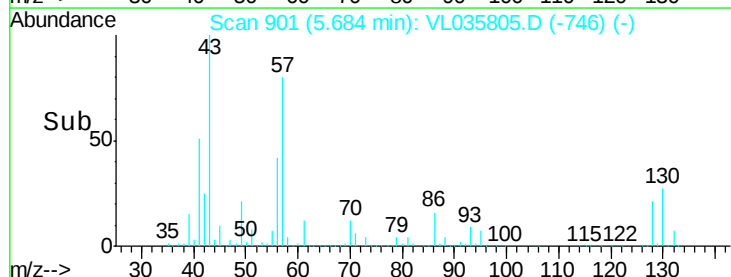


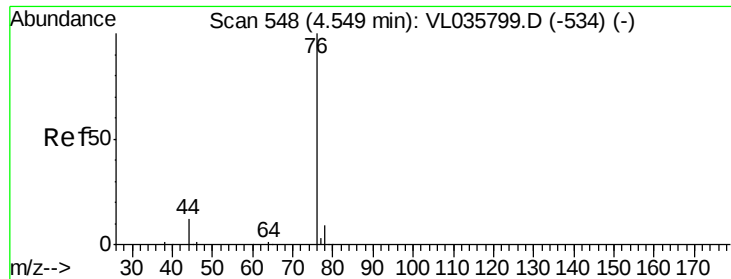
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 17.133 ppbv

RT: 4.54 min Scan# 546

Delta R.T. -0.01 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 3316172

Ion Ratio Lower Upper

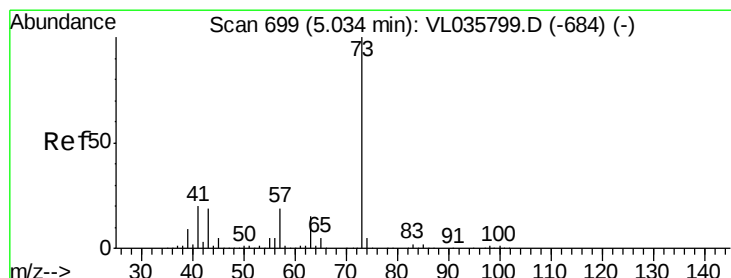
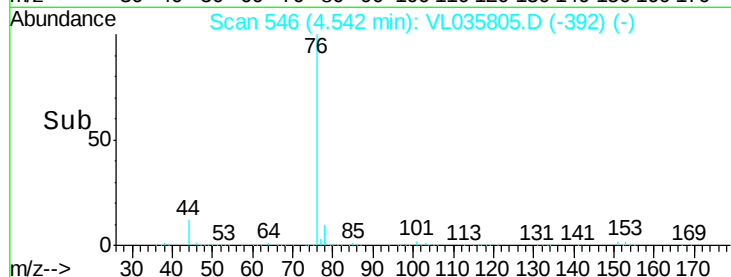
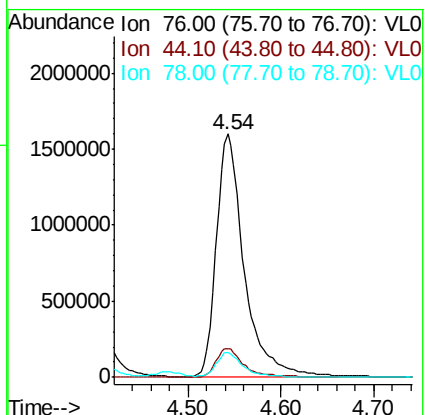
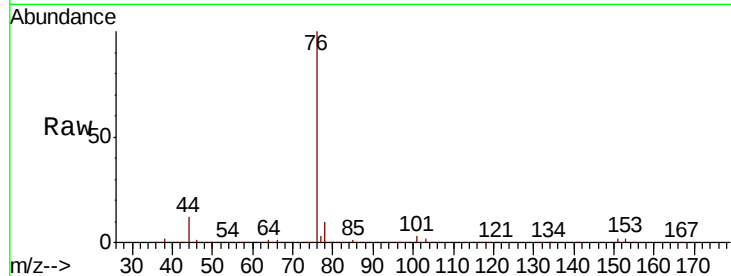
76 100

44 11.8 9.9 14.9

78 10.4 8.1 12.1

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11/5/2020 2:13:31 PM



#28

Methyl tert-Butyl Ether

Concen: 18.130 ppbv

RT: 5.03 min Scan# 697

Delta R.T. -0.01 min

Lab File: VL035805.D

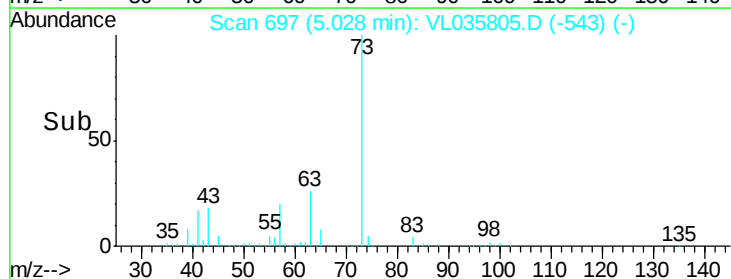
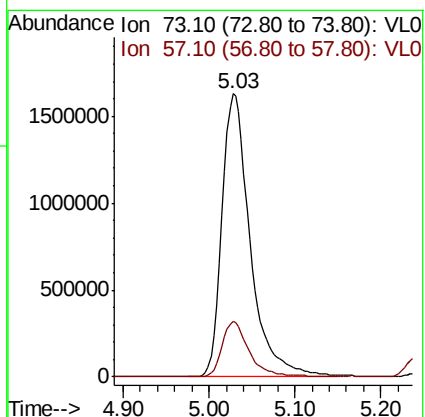
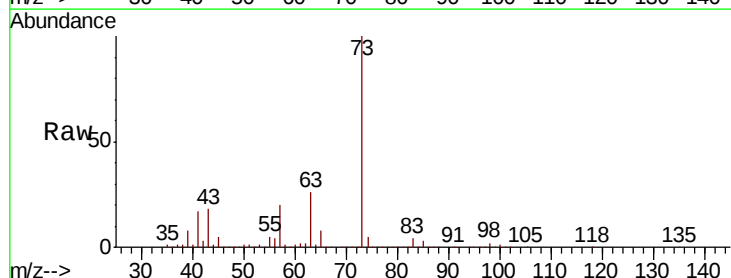
Acq: 3 Nov 2020 14:18

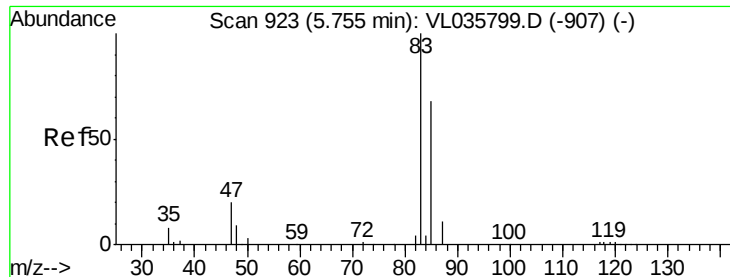
Tgt Ion: 73 Resp: 3731893

Ion Ratio Lower Upper

73 100

57 18.9 15.4 23.2





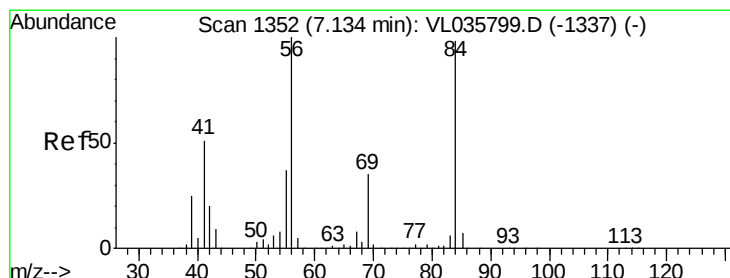
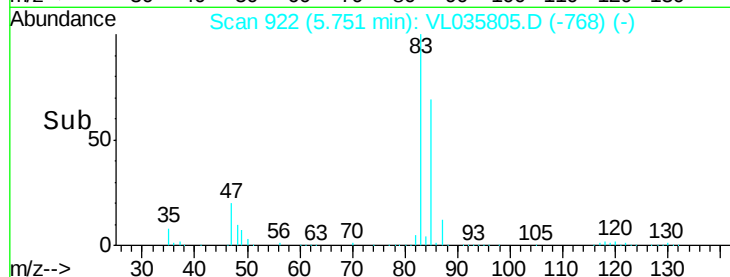
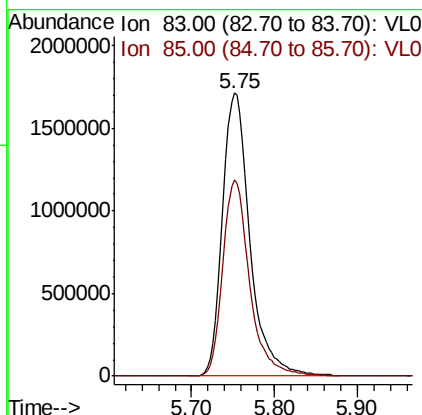
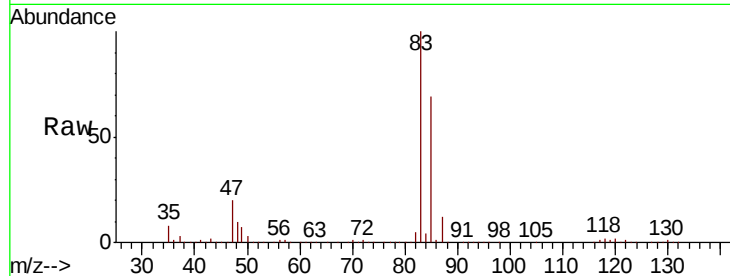
#29
Chloroform
Concen: 14.982 ppbv
RT: 5.75 min Scan# 922
Delta R.T. -0.00 min
Lab File: VL035805.D
Acq: 3 Nov 2020 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 3950882
Ion Ratio Lower Upper
83 100
85 69.0 54.6 81.8

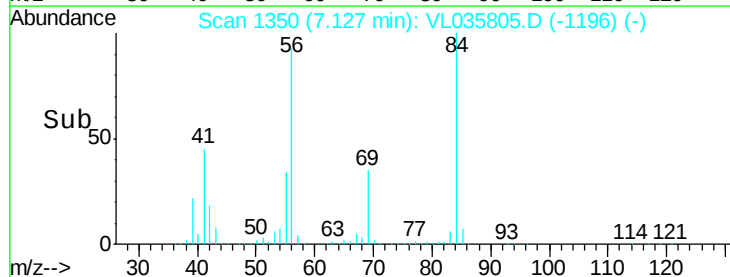
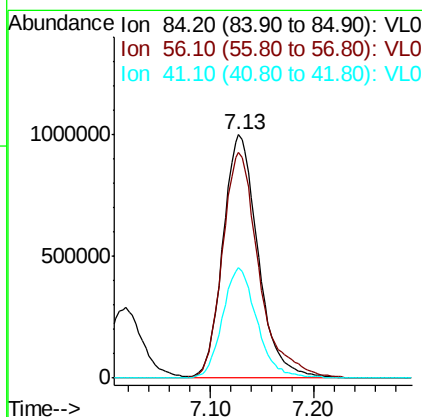
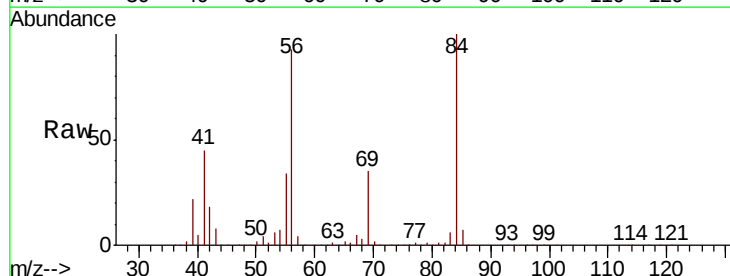
Manual Integrations
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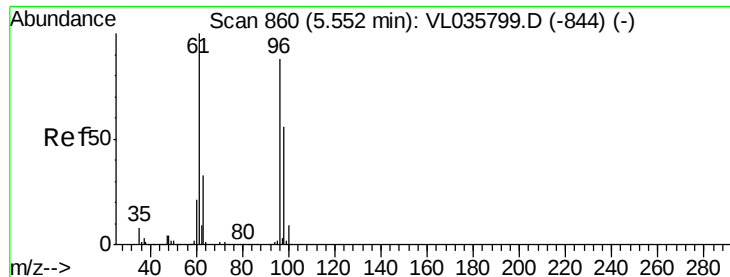
MMDadoda
11/5/2020 2:13:31 PM



#30
Cyclohexane
Concen: 18.331 ppbv
RT: 7.13 min Scan# 1350
Delta R.T. -0.01 min
Lab File: VL035805.D
Acq: 3 Nov 2020 14:18

Tgt Ion: 84 Resp: 2348645
Ion Ratio Lower Upper
84 100
56 97.8 86.4 129.6
41 45.2 42.1 63.1





#31

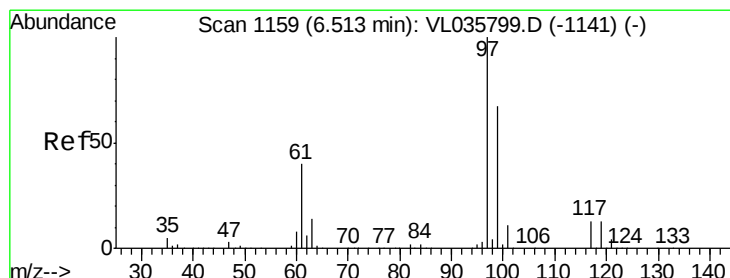
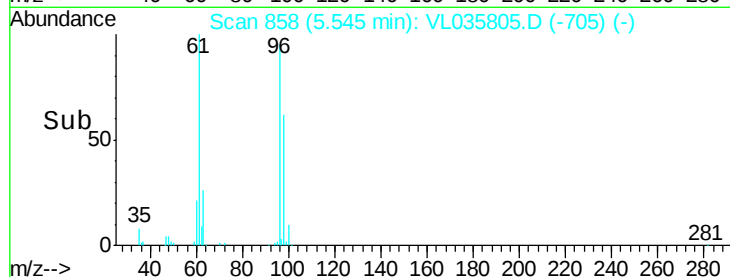
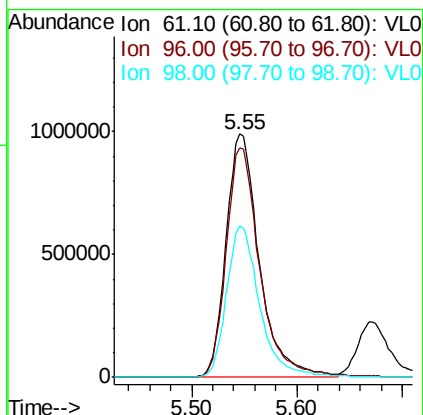
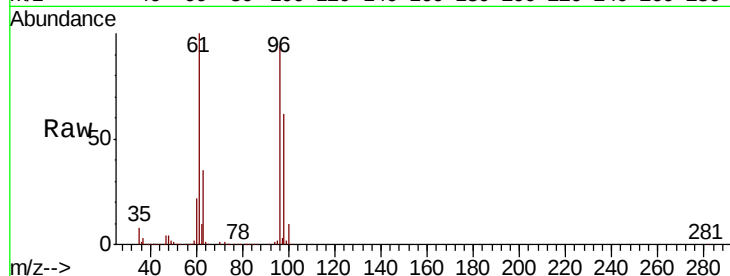
cis-1,2-Dichloroethene
 Concen: 17.270 ppbv
 RT: 5.55 min Scan# 858
 Delta R.T. -0.01 min
 Lab File: VL035805.D
 Acq: 3 Nov 2020 14:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
61	100		
96	94.4	70.3	105.5
98	62.0	45.0	67.6

Manual Integrations
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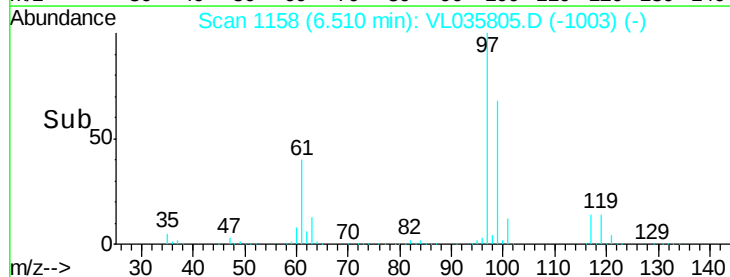
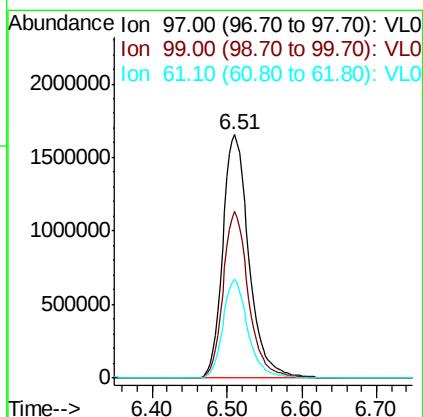
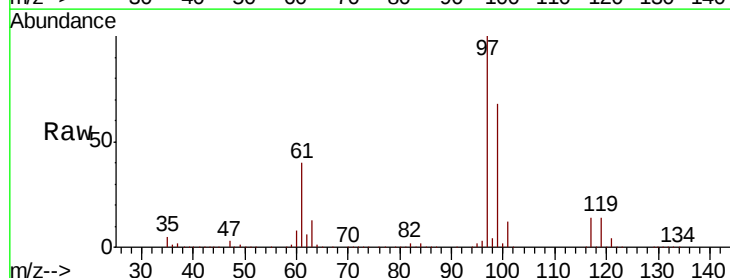
MMDadoda
 11/5/2020 2:13:31 PM

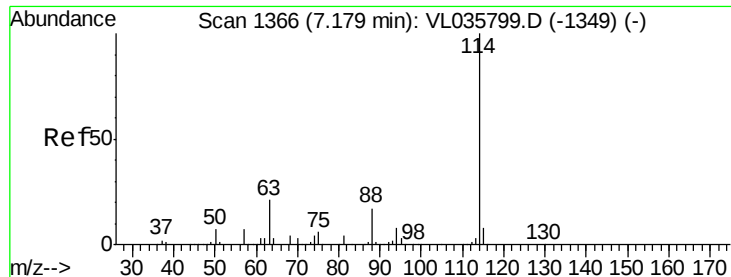


#32

1,1,1-Trichloroethane
 Concen: 17.274 ppbv
 RT: 6.51 min Scan# 1158
 Delta R.T. -0.00 min
 Lab File: VL035805.D
 Acq: 3 Nov 2020 14:18

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.5	52.3	78.5
61	38.7	32.0	48.0





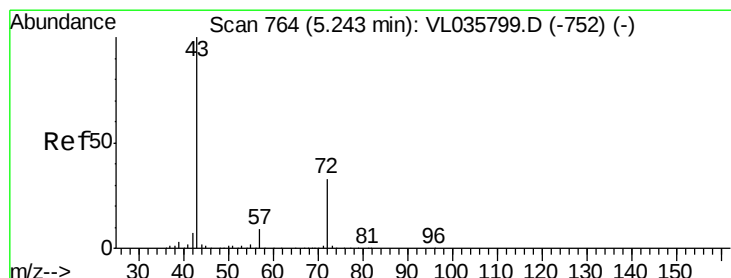
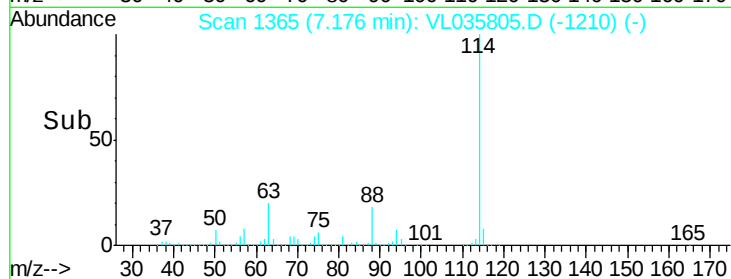
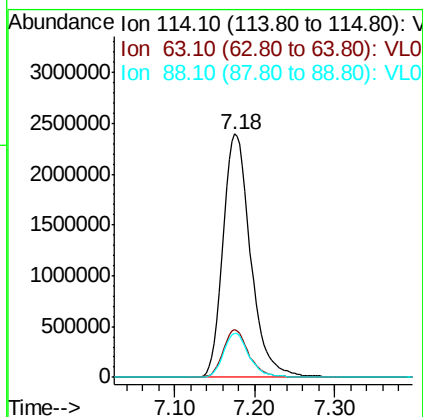
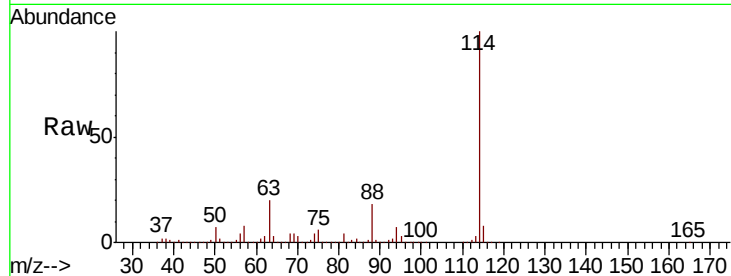
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.00 min
 Lab File: VL035805.D
 Acq: 3 Nov 2020 14:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:114 Resp: 5676225
 Ion Ratio Lower Upper
 114 100
 63 18.6 16.1 24.1
 88 16.9 13.7 20.5

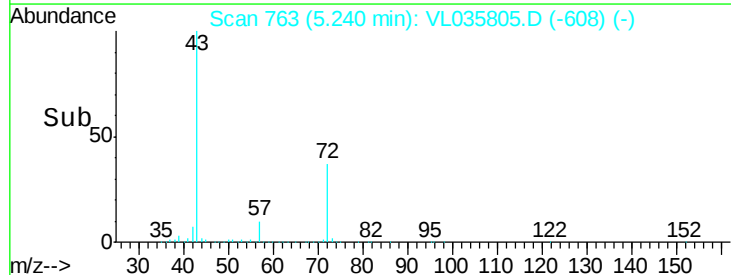
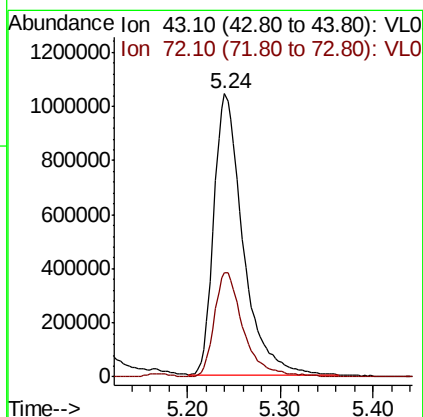
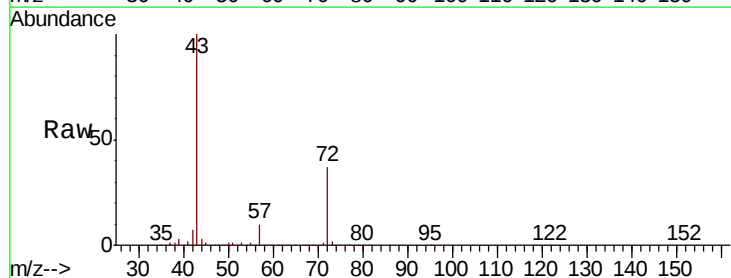
Manual Integrations
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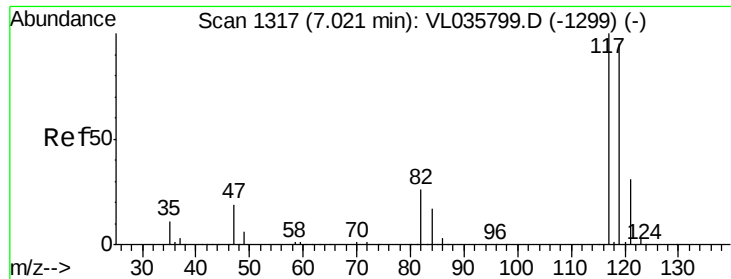
MMDadoda
 11/5/2020 2:13:31 PM



#34
 2-Butanone
 Concen: 12.023 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. -0.00 min
 Lab File: VL035805.D
 Acq: 3 Nov 2020 14:18

Tgt Ion: 43 Resp: 2257170
 Ion Ratio Lower Upper
 43 100
 72 37.6 26.5 39.7





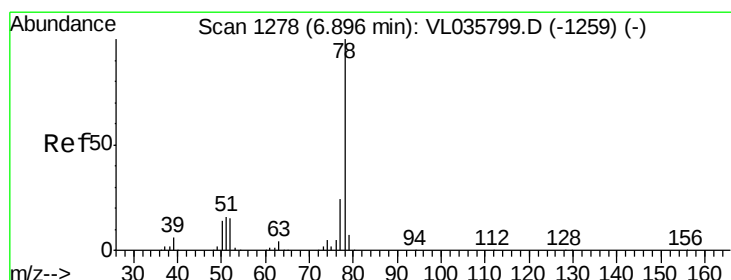
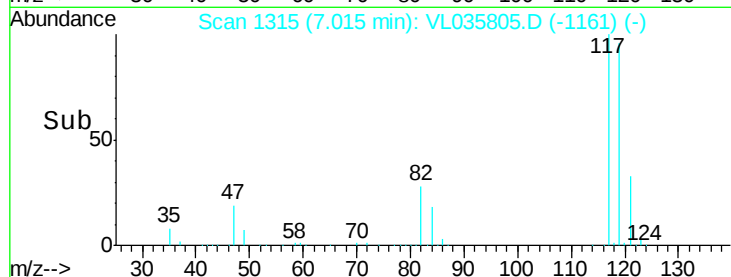
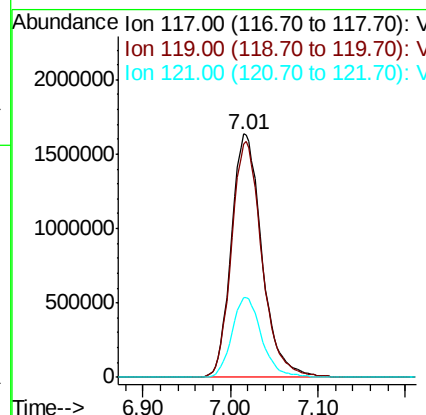
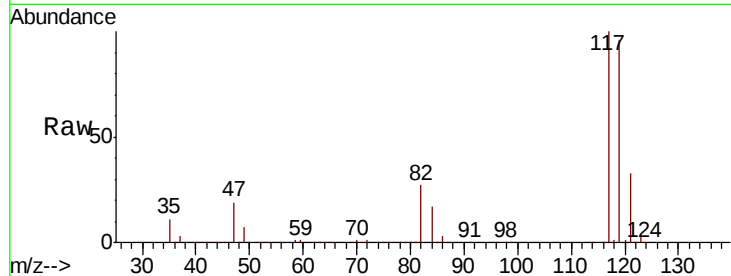
#35
Carbon Tetrachloride
Concen: 13.422 ppbv
RT: 7.01 min Scan# 1315
Delta R.T. -0.01 min
Lab File: VL035805.D
Acq: 3 Nov 2020 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:117 Resp: 3972080
Ion Ratio Lower Upper
117 100
119 95.8 75.6 113.4
121 32.5 25.1 37.7

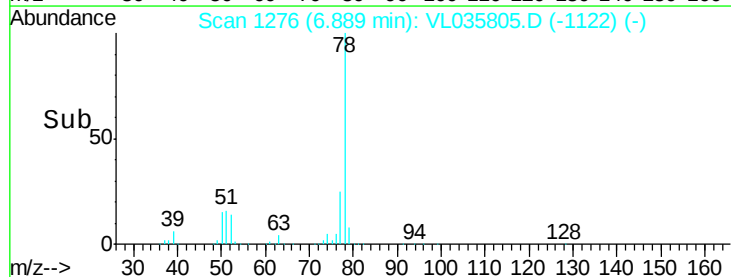
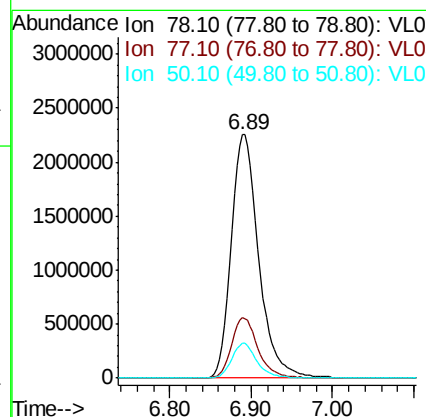
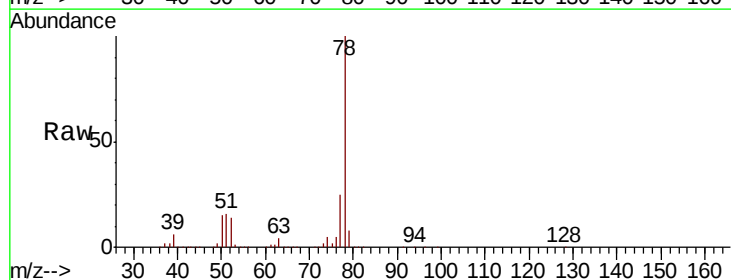
Manual Integrations
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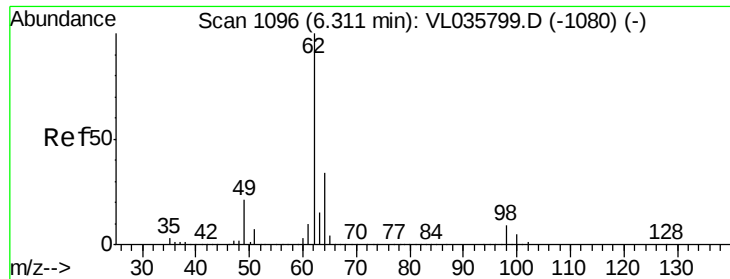
MMDadoda
11/5/2020 2:13:31 PM



#36
Benzene
Concen: 14.449 ppbv
RT: 6.89 min Scan# 1276
Delta R.T. -0.01 min
Lab File: VL035805.D
Acq: 3 Nov 2020 14:18

Tgt Ion: 78 Resp: 5344325
Ion Ratio Lower Upper
78 100
77 24.9 19.3 28.9
50 14.5 11.4 17.2





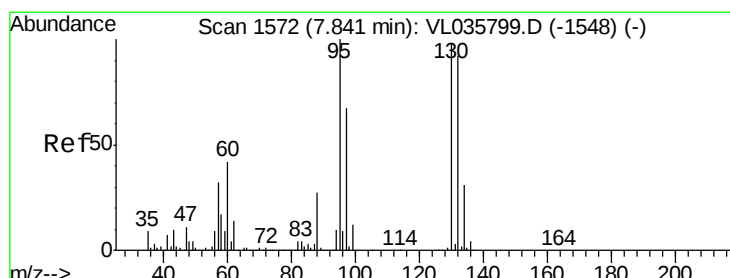
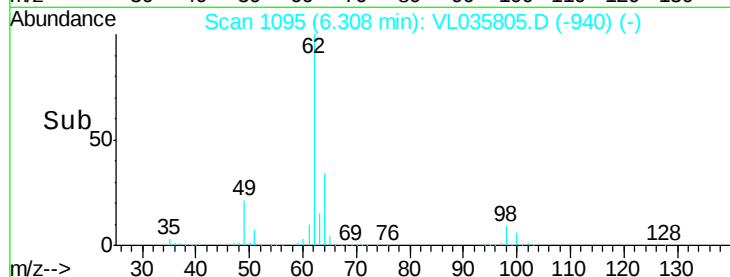
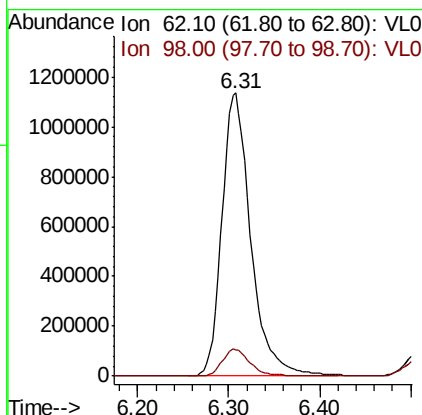
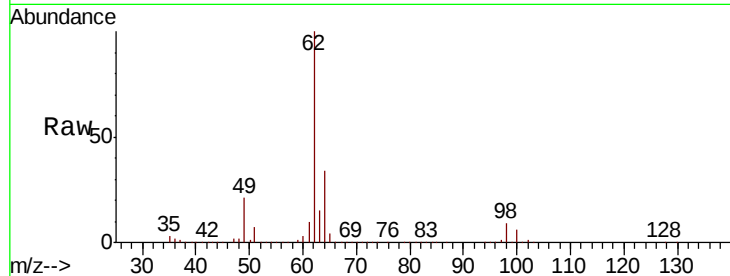
#37
 1,2-Dichloroethane
 Concen: 12.973 ppbv
 RT: 6.31 min Scan# 1095
 Delta R.T. -0.00 min
 Lab File: VL035805.D
 Acq: 3 Nov 2020 14:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 62 Resp: 2500839
 Ion Ratio Lower Upper
 62 100
 98 9.4 6.9 10.3

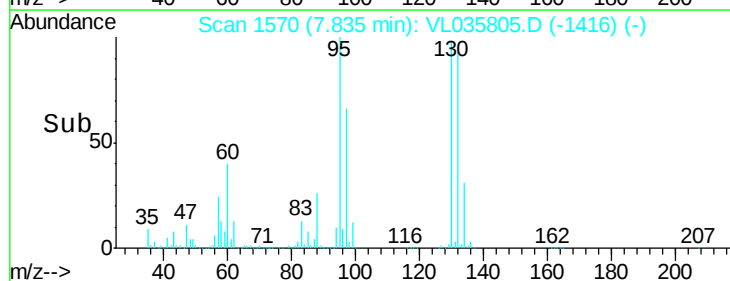
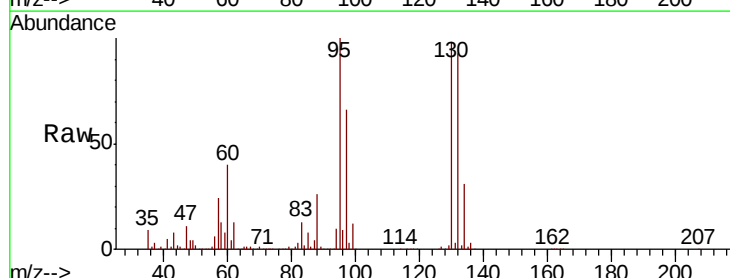
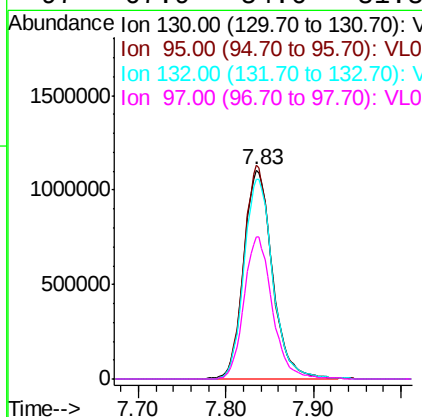
Manual Integrations
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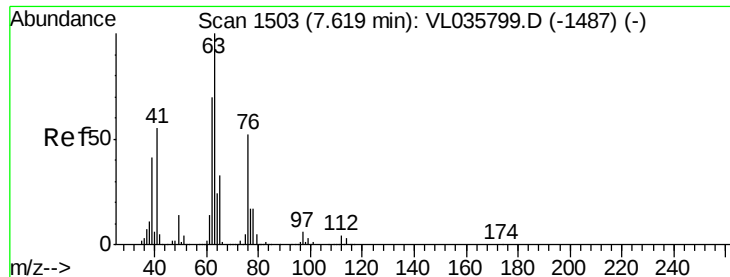
MMDadoda
 11/5/2020 2:13:31 PM



#38
 Trichloroethene
 Concen: 13.720 ppbv
 RT: 7.83 min Scan# 1570
 Delta R.T. -0.01 min
 Lab File: VL035805.D
 Acq: 3 Nov 2020 14:18

Tgt Ion: 130 Resp: 2531471
 Ion Ratio Lower Upper
 130 100
 95 102.2 81.6 122.4
 132 95.4 75.1 112.7
 97 67.9 54.6 81.8





#39

1,2-Dichloropropane

Concen: 13.456 ppbv

RT: 7.61 min Scan# 1501

Delta R.T. -0.01 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 63 Resp: 1803892

Ion Ratio Lower Upper

63 100

41 48.1 43.8 65.6

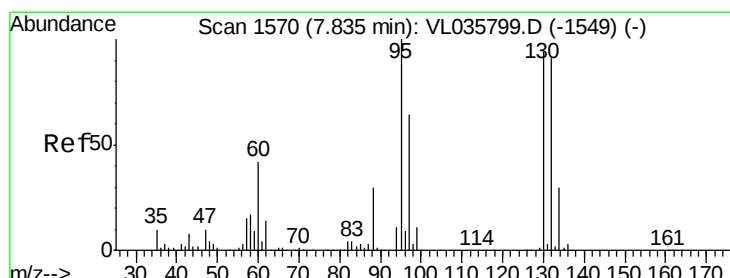
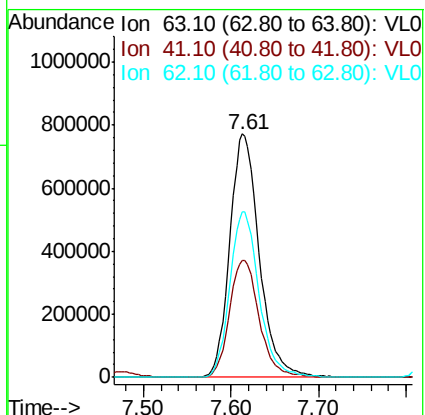
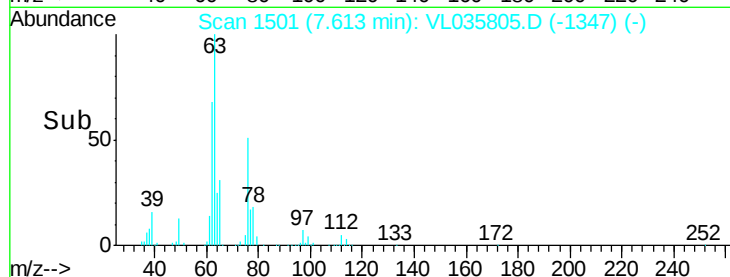
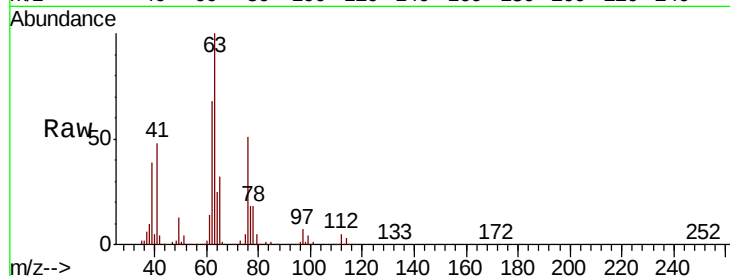
62 68.2 56.2 84.2

Manual Integrations

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MMDadoda

11/5/2020 2:13:31 PM



#40

1,4-Dioxane

Concen: 13.172 ppbv

RT: 7.83 min Scan# 1568

Delta R.T. -0.01 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

Tgt Ion: 88 Resp: 807584

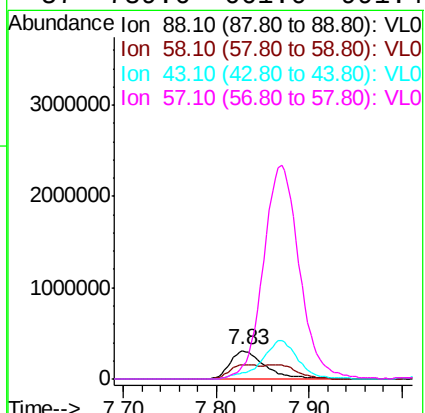
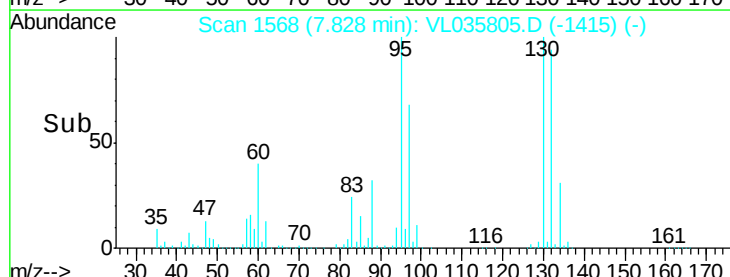
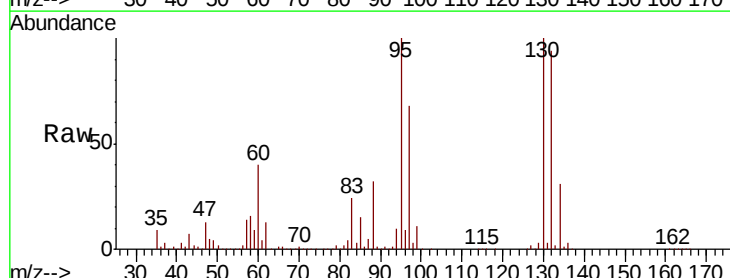
Ion Ratio Lower Upper

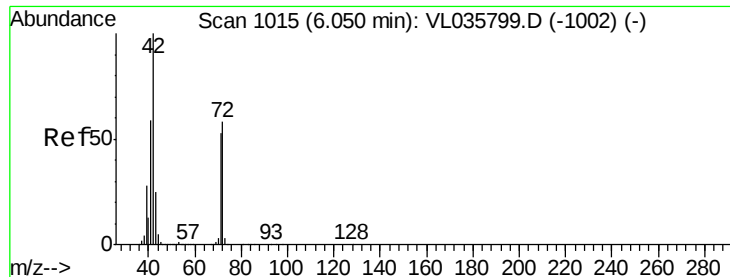
88 100

58 90.7 76.2 114.2

43 145.2 123.1 184.7

57 789.6 661.0 991.4





#41

Tetrahydrofuran

Concen: 14.414 ppbv

RT: 6.04 min Scan# 1013

Delta R.T. -0.01 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 42 Resp: 1363294

Ion Ratio Lower Upper

42 100

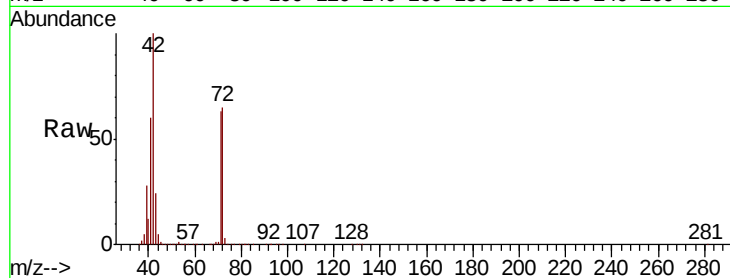
72 65.1 45.4 68.0

71 62.1 43.4 65.2

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MMDadoda

11/5/2020 2:13:31 PM

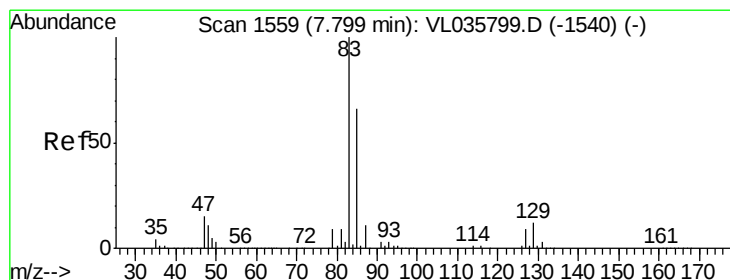
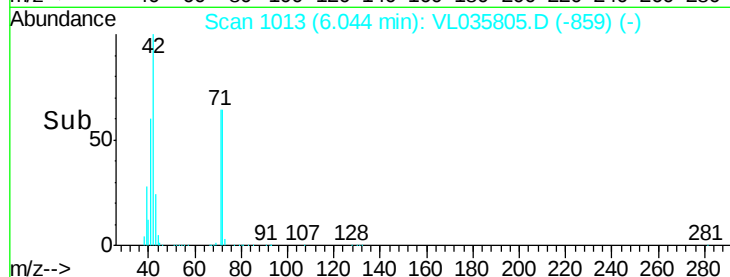
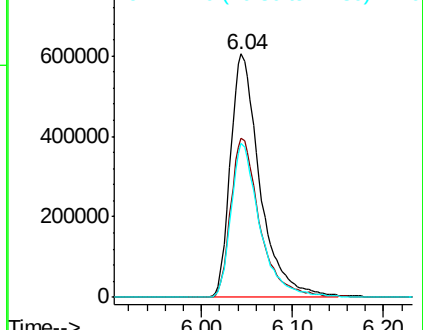


Abundance

Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 13.862 ppbv

RT: 7.79 min Scan# 1557

Delta R.T. -0.01 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

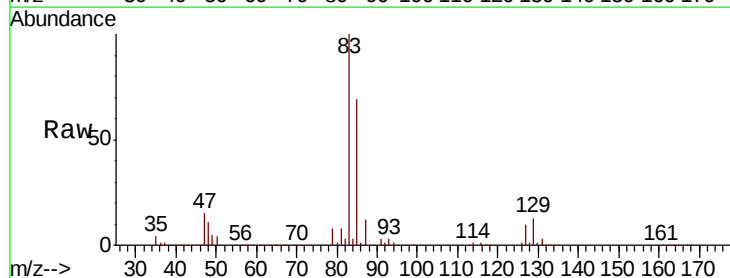
Tgt Ion: 83 Resp: 4304619

Ion Ratio Lower Upper

83 100

85 68.7 53.1 79.7

127 9.8 7.3 10.9

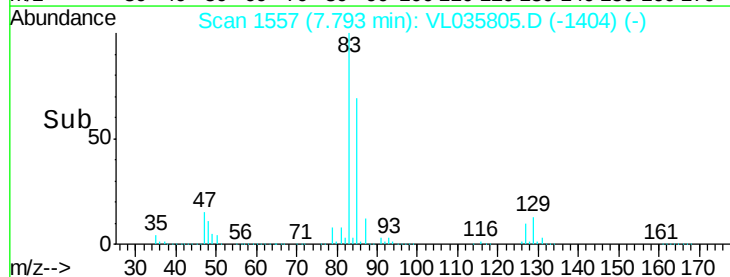
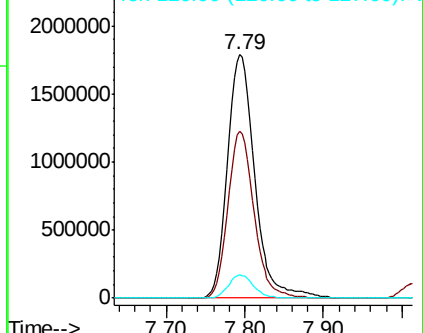


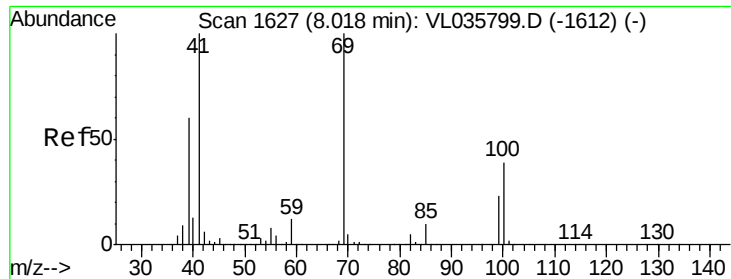
Abundance

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): VL0





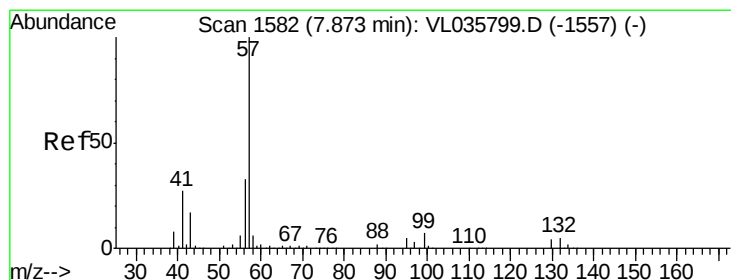
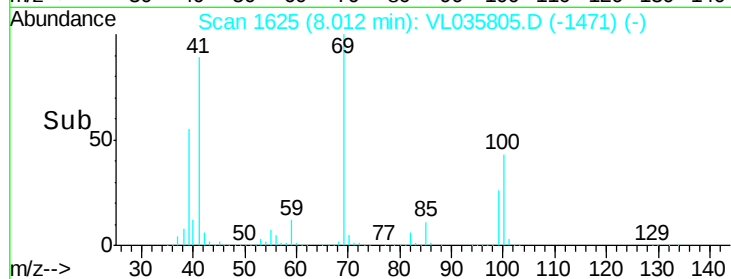
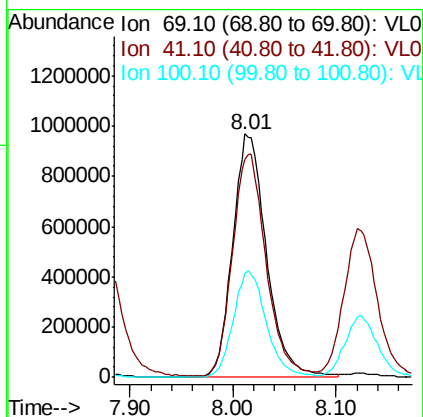
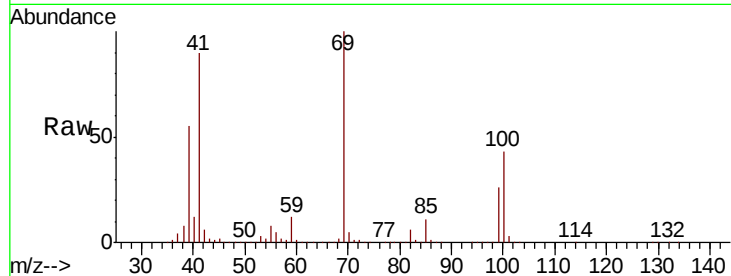
#43
Methvl Methacrilate
Concen: 15.049 ppbv
RT: 8.01 min Scan# 1625
Delta R.T. -0.01 min
Lab File: VL035805.D
Acq: 3 Nov 2020 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 69 Resp: 2213734
Ion Ratio Lower Upper
69 100
41 91.9 81.1 121.7
100 42.8 31.0 46.4

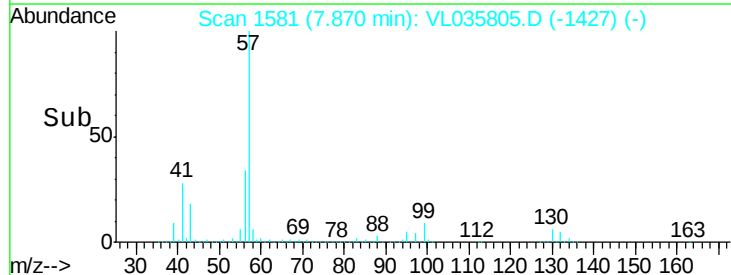
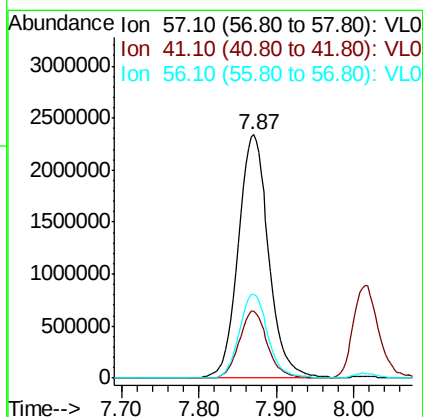
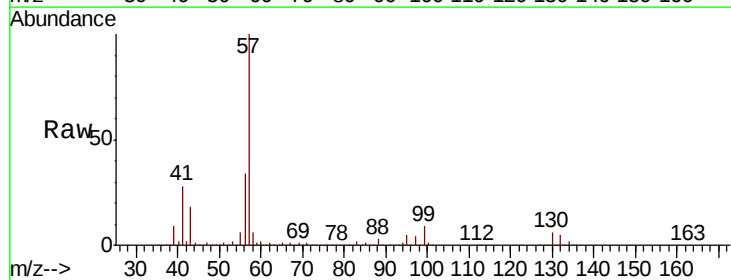
Manual Integrations
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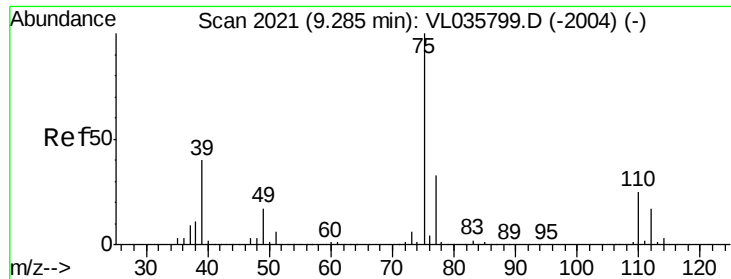
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#44
2,2,4-Trimethylpentane
Concen: 12.009 ppbv
RT: 7.87 min Scan# 1581
Delta R.T. -0.00 min
Lab File: VL035805.D
Acq: 3 Nov 2020 14:18

Tgt Ion: 57 Resp: 6373845
Ion Ratio Lower Upper
57 100
41 25.6 21.0 31.4
56 32.5 25.4 38.0





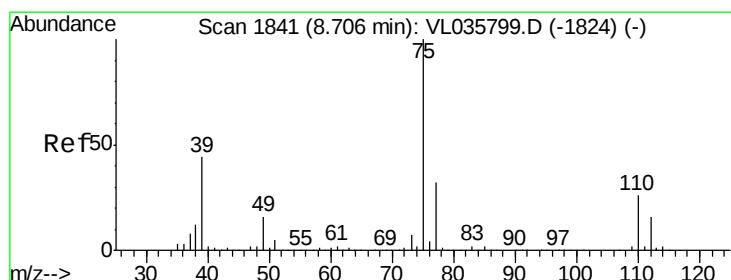
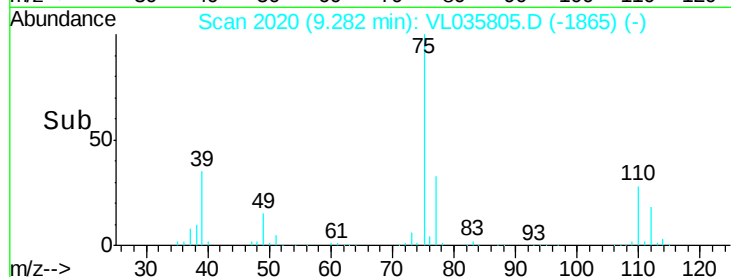
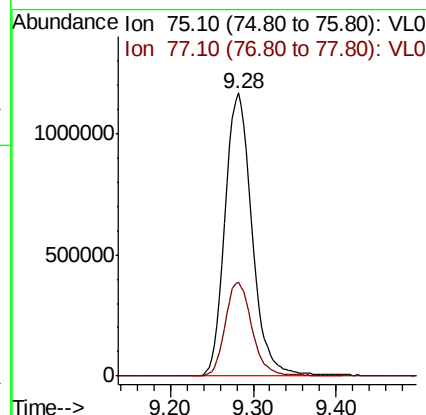
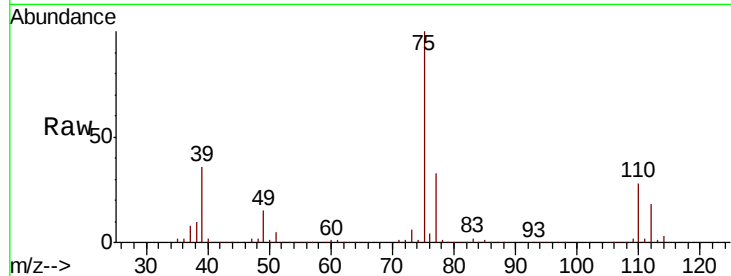
#45
t-1,3-Dichloropropene
Concen: 17.820 ppbv
RT: 9.28 min Scan# 2020
Delta R.T. -0.00 min
Lab File: VL035805.D
Acq: 3 Nov 2020 14:18

Instrument :
MSVOA_L
ClientSampled :
VSTDIC015

Tot Ion: 75 Resp: 2646592
Ion Ratio Lower Upper
75 100
77 33.4 26.4 39.6

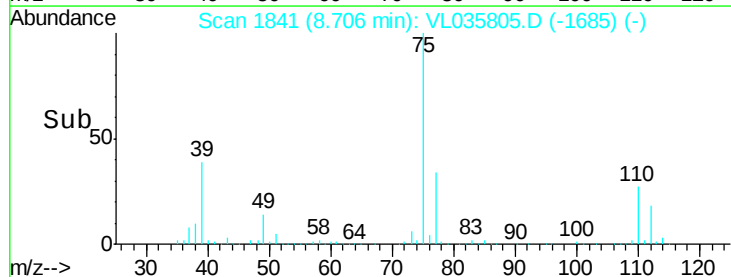
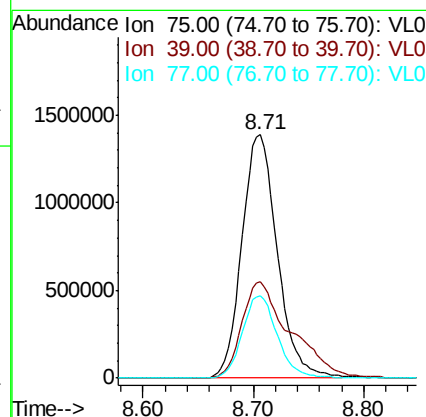
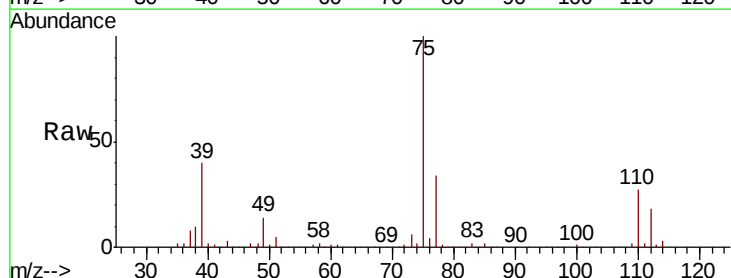
Manual Integrations
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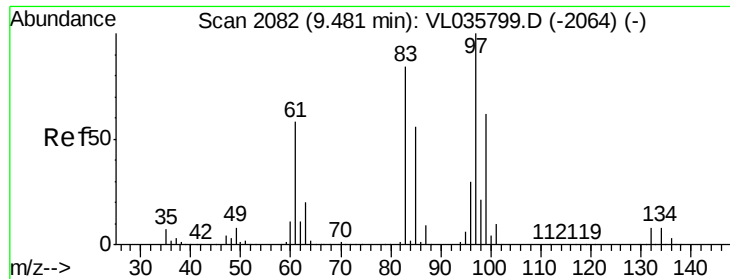
MMDadoda
11/5/2020 2:13:31 PM



#46
cis-1,3-Dichloropropene
Concen: 16.928 ppbv
RT: 8.71 min Scan# 1841
Delta R.T. -0.00 min
Lab File: VL035805.D
Acq: 3 Nov 2020 14:18

Tgt Ion: 75 Resp: 3098974
Ion Ratio Lower Upper
75 100
39 39.5 35.1 52.7
77 33.9 25.7 38.5





#47
 1,1,2-Trichloroethane
 Concen: 13.162 ppbv
 RT: 9.48 min Scan# 2082
 Delta R.T. -0.00 min
 Lab File: VL035805.D
 Acq: 3 Nov 2020 14:18

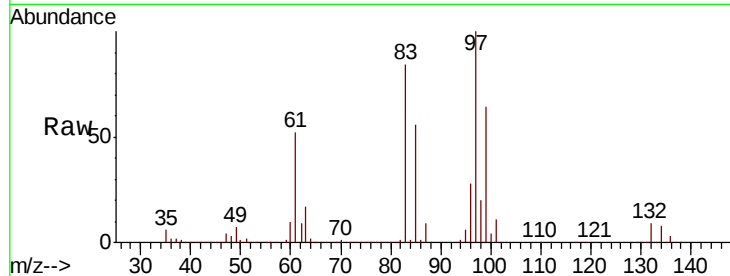
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 97 Resp: 2527340

Ion	Ratio	Lower	Upper
97	100		
83	84.2	67.1	100.7
85	55.7	44.7	67.1
99	64.3	49.7	74.5

Manual Integrations
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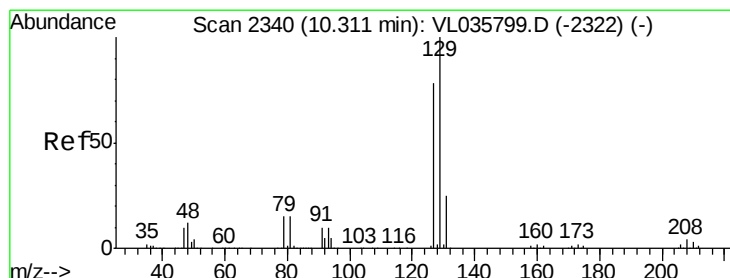
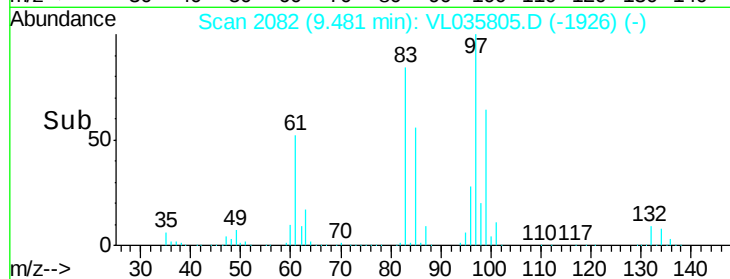
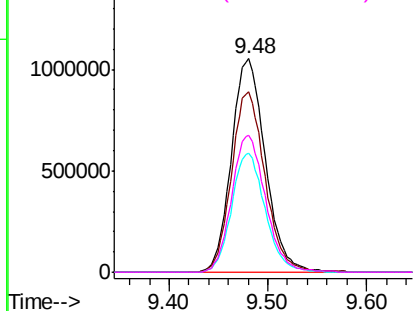
Abundance

Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

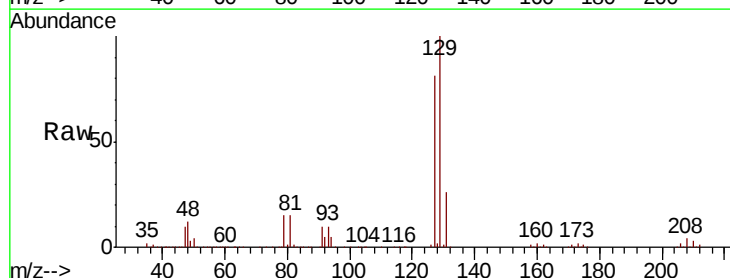
Ion 99.00 (98.70 to 99.70): VL0



#48
 Dibromochloromethane
 Concen: 13.959 ppbv
 RT: 10.31 min Scan# 2340
 Delta R.T. -0.00 min
 Lab File: VL035805.D
 Acq: 3 Nov 2020 14:18

Tgt Ion: 129 Resp: 4079306

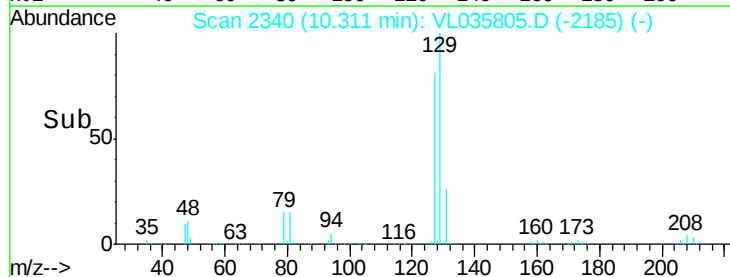
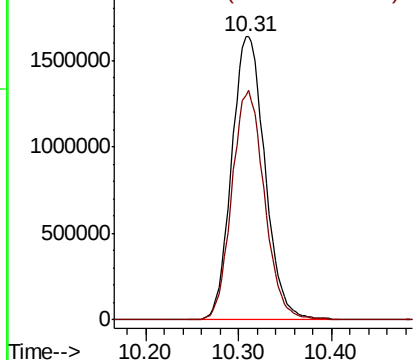
Ion	Ratio	Lower	Upper
129	100		
127	79.5	39.2	117.6

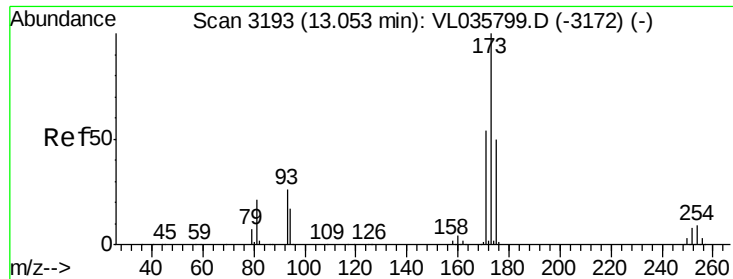


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 13.805 ppbv

RT: 13.05 min Scan# 3192

Delta R.T. -0.00 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:173 Resp: 3423230

Ion Ratio Lower Upper

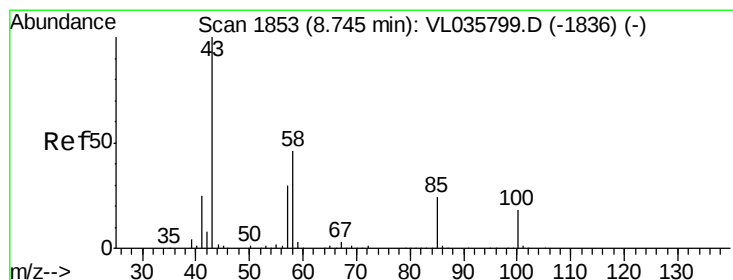
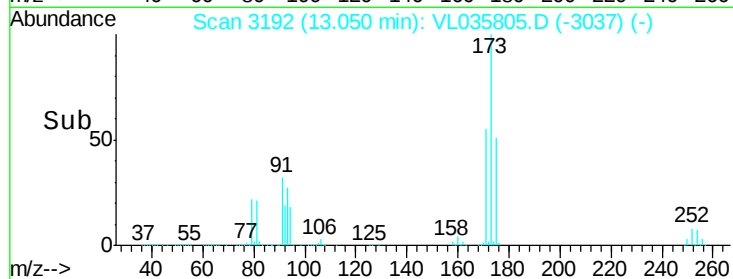
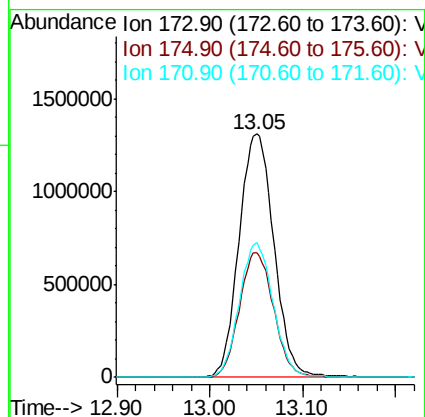
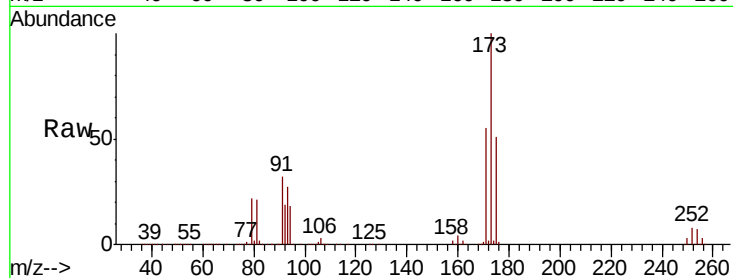
173 100

175 50.5 40.1 60.1

171 53.9 42.6 63.8

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#50

4-Methyl-2-Pentanone

Concen: 12.392 ppbv

RT: 8.74 min Scan# 1852

Delta R.T. -0.00 min

Lab File: VL035805.D

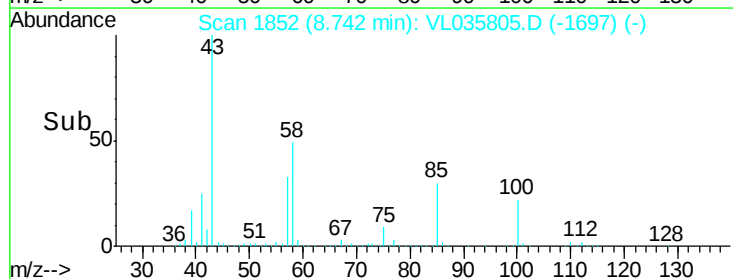
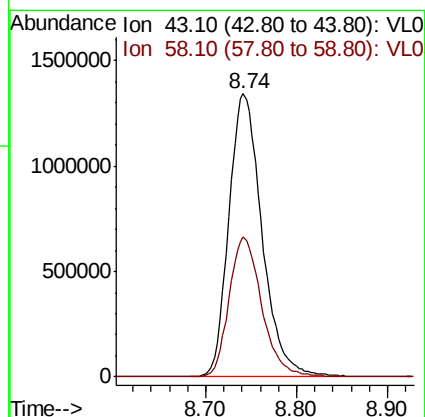
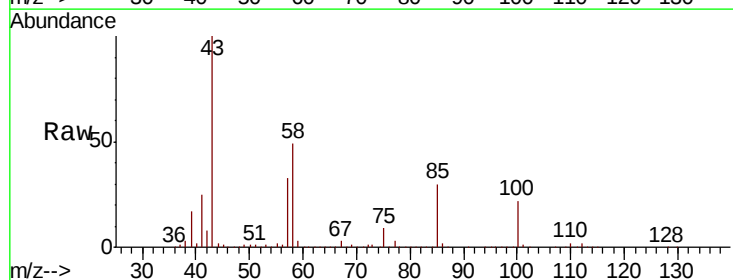
Acq: 3 Nov 2020 14:18

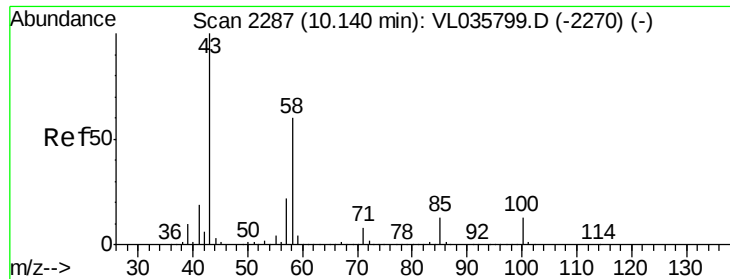
Tgt Ion: 43 Resp: 3398229

Ion Ratio Lower Upper

43 100

58 48.8 36.0 54.0





#51

2-Hexanone

Concen: 12.902 ppbv

RT: 10.13 min Scan# 2285

Delta R.T. -0.01 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 2850540

Ion Ratio Lower Upper

43 100

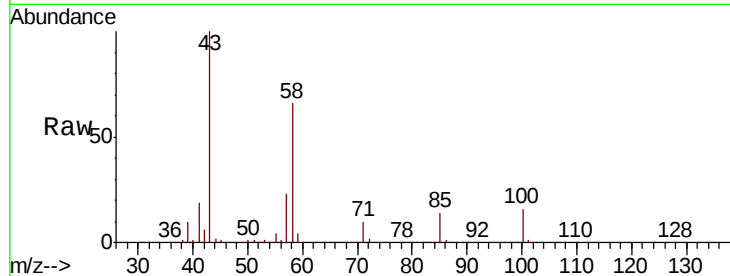
58 65.9 48.3 72.5

98 0.2 0.6 0.8#

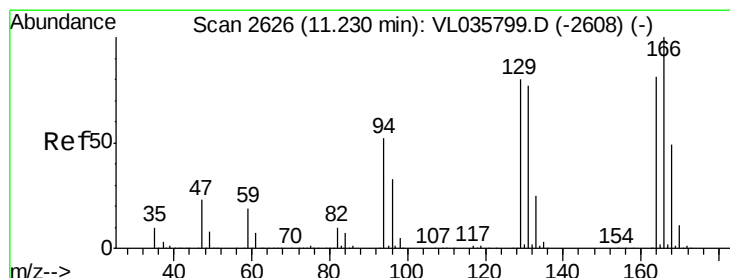
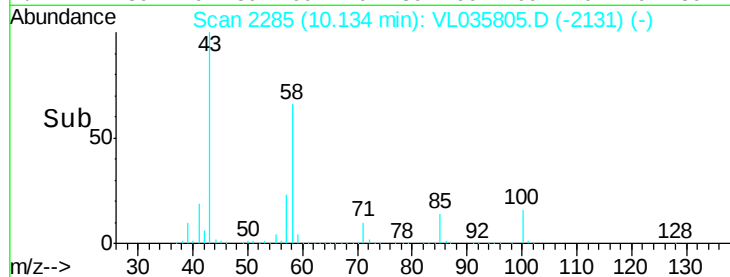
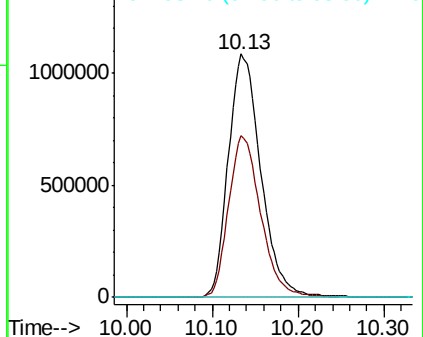
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 13.191 ppbv

RT: 11.23 min Scan# 2625

Delta R.T. -0.00 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

Tgt Ion:164 Resp: 2346141

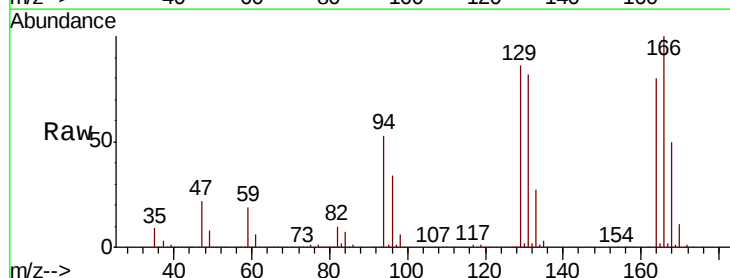
Ion Ratio Lower Upper

164 100

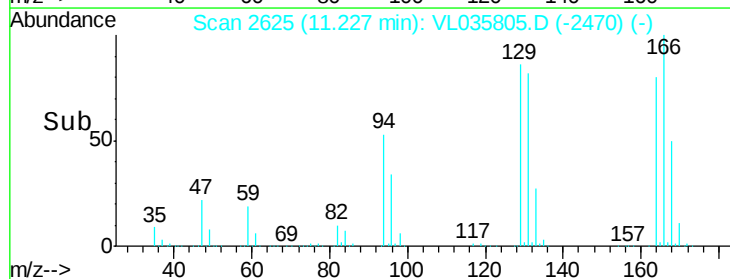
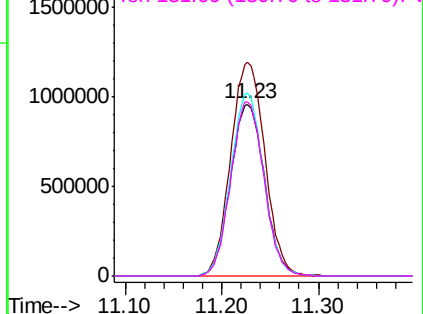
166 124.4 99.3 148.9

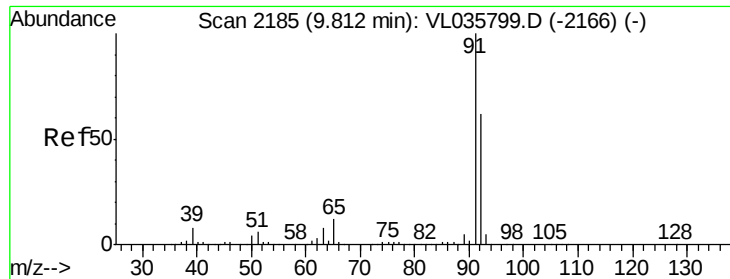
129 106.4 79.3 118.9

131 101.5 76.5 114.7



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 14.564 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 6351778

Ion Ratio Lower Upper

91 100

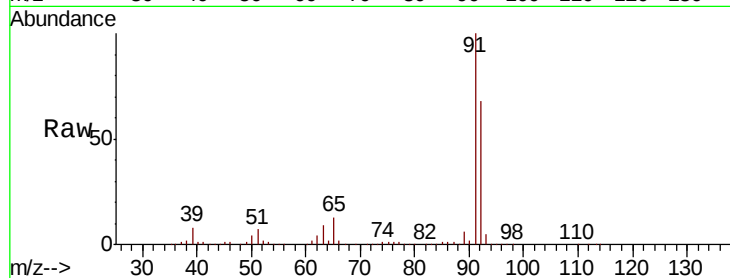
92 64.8 49.8 74.6

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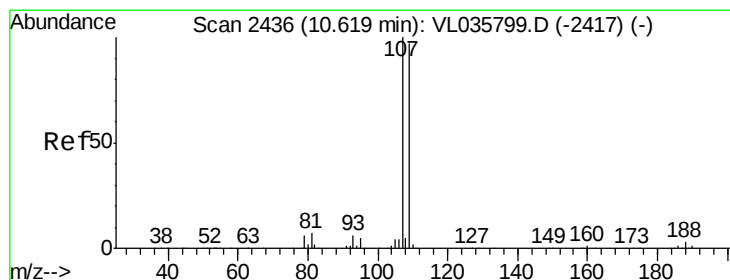
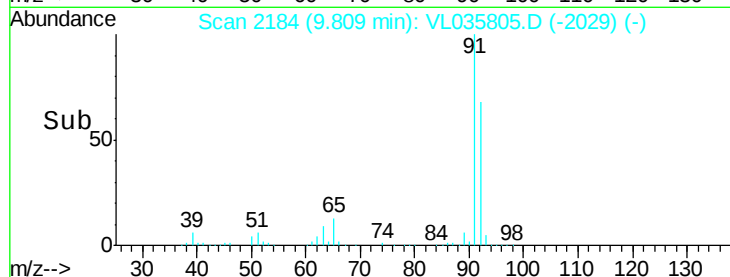
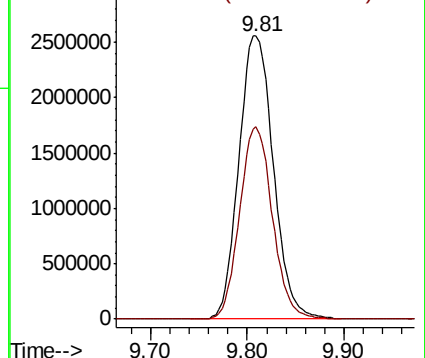
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 13.413 ppbv

RT: 10.62 min Scan# 2435

Delta R.T. -0.00 min

Lab File: VL035805.D

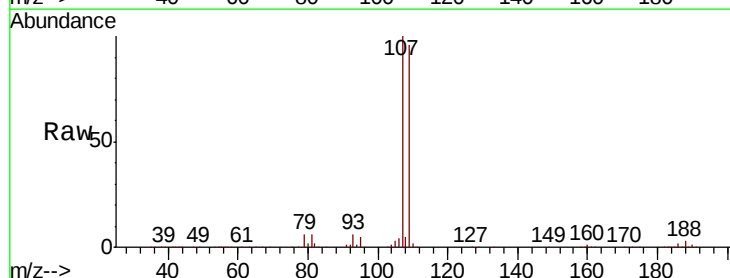
Acq: 3 Nov 2020 14:18

Tgt Ion: 107 Resp: 3856592

Ion Ratio Lower Upper

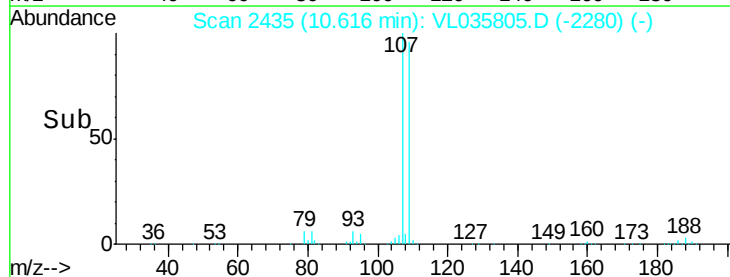
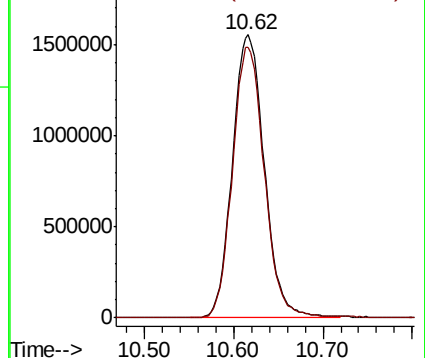
107 100

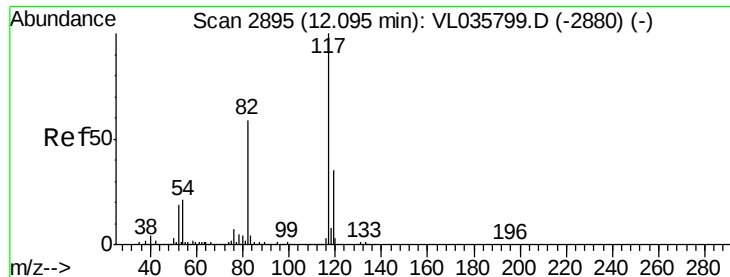
109 95.6 77.2 115.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

Instrument :

MSVOA_L

ClientSampled :

VSTDIC015

Tot Ion:117 Resp: 5489098

Ion Ratio Lower Upper

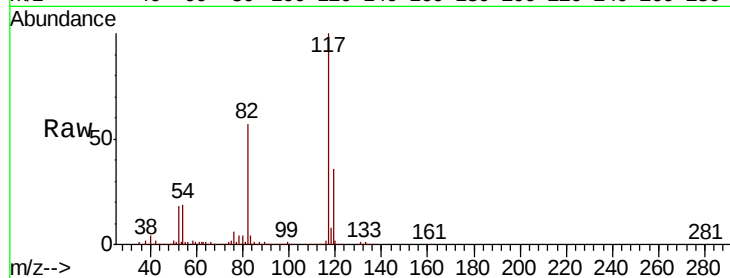
117 100

82 54.9 50.6 76.0

119 33.1 52.6 78.8#

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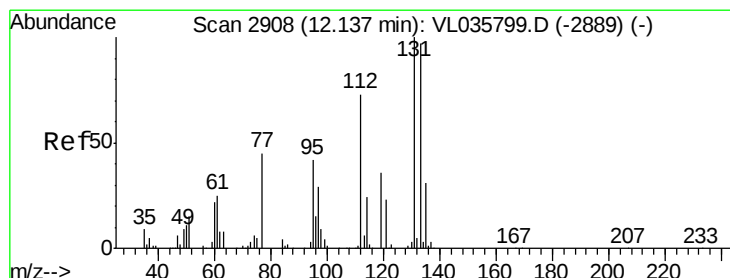
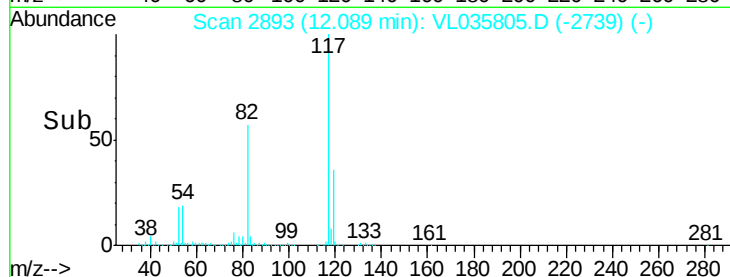
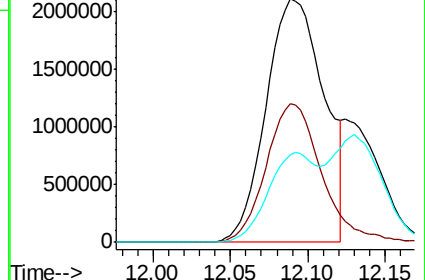
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 13.440 ppbv

RT: 12.13 min Scan# 2906

Delta R.T. -0.01 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

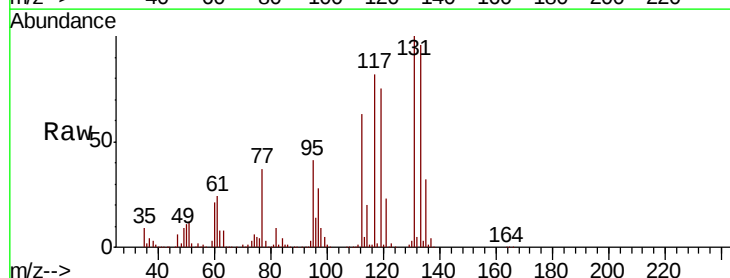
Tgt Ion:131 Resp: 3093323

Ion Ratio Lower Upper

131 100

133 95.5 76.8 115.2

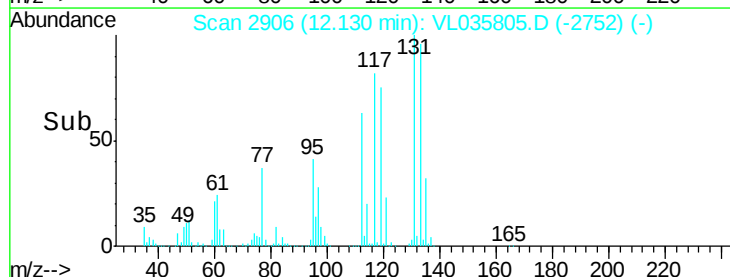
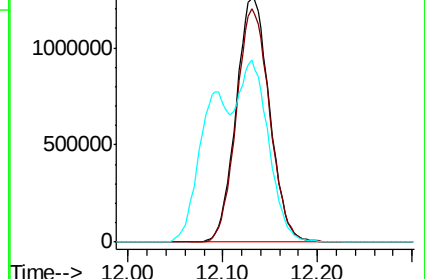
119 75.0 47.4 71.0#

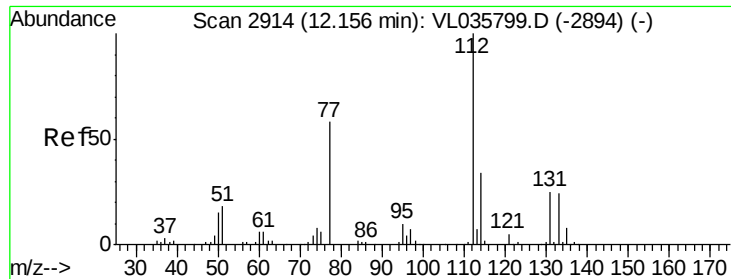


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





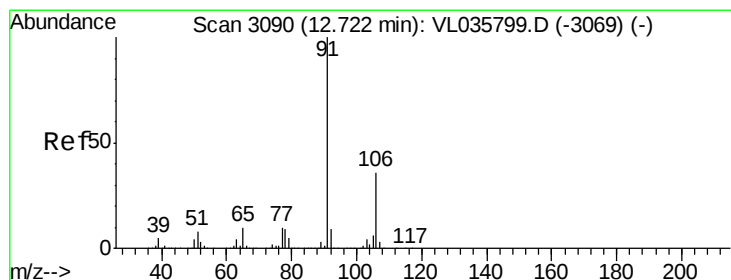
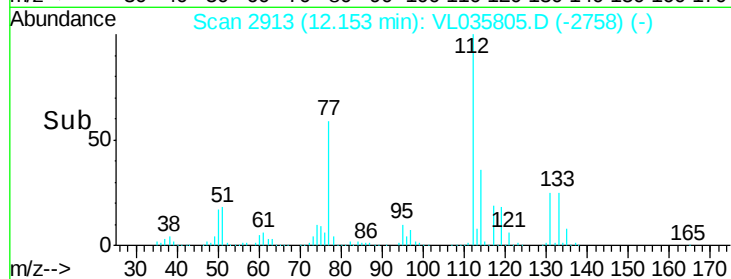
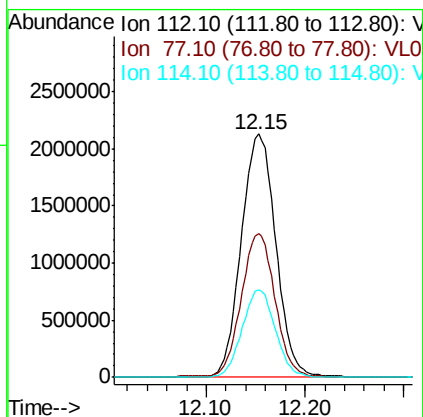
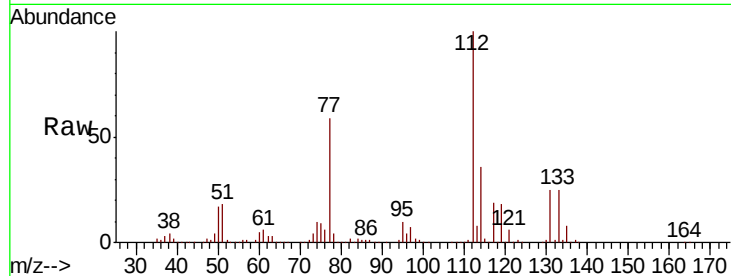
#57
Chlorobenzene
Concen: 12.467 ppbv
RT: 12.15 min Scan# 2913
Delta R.T. -0.00 min
Lab File: VL035805.D
Acq: 3 Nov 2020 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:112 Resp: 5168582
Ion Ratio Lower Upper
112 100
77 58.9 47.5 71.3
114 36.0 30.3 37.1

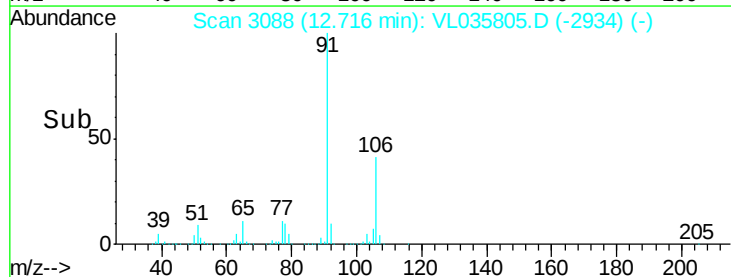
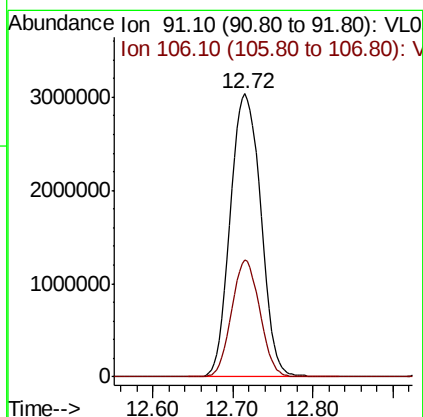
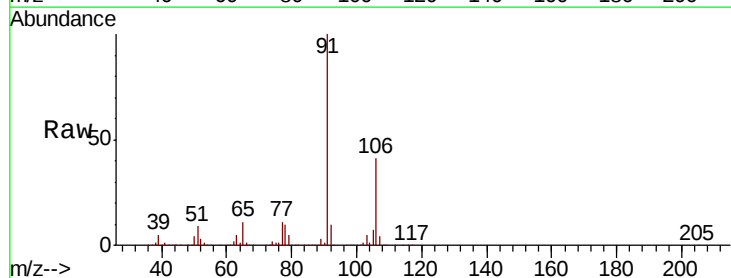
Manual Integrations
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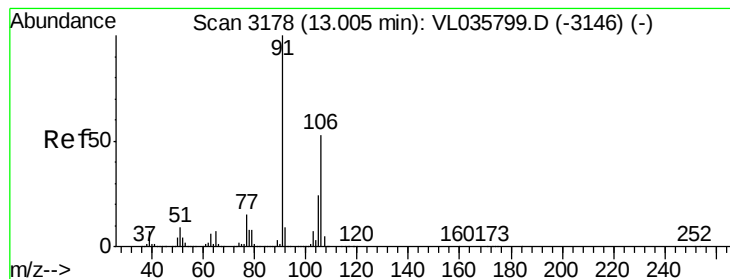
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#58
Ethyl Benzene
Concen: 14.282 ppbv
RT: 12.72 min Scan# 3088
Delta R.T. -0.01 min
Lab File: VL035805.D
Acq: 3 Nov 2020 14:18

Tgt Ion: 91 Resp: 7868699
Ion Ratio Lower Upper
91 100
106 41.5 28.6 43.0





#59

m/p-Xylene

Concen: 26.642 ppbv m

RT: 13.00 min Scan# 3177

Delta R.T. -0.00 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 12818395

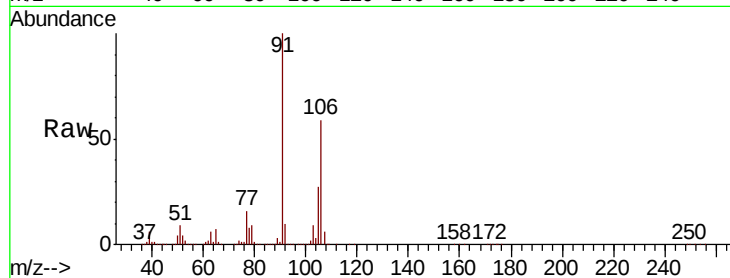
Ion Ratio Lower Upper

91 100

106 53.0 39.5 59.3

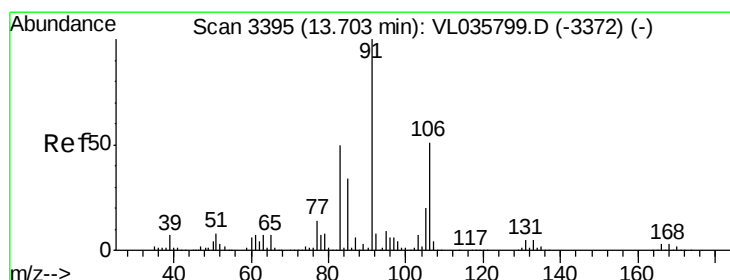
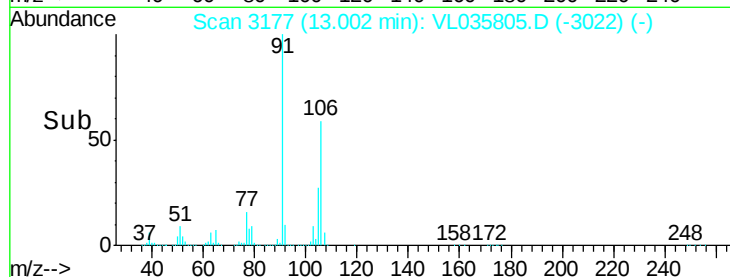
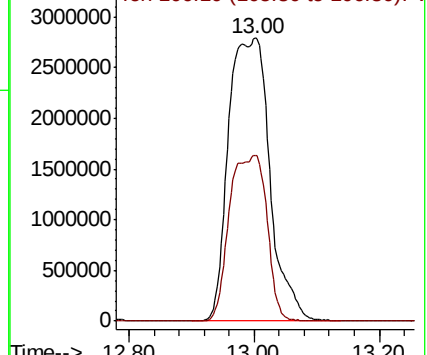
Manual Integrations
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 12.929 ppbv

RT: 13.70 min Scan# 3394

Delta R.T. -0.00 min

Lab File: VL035805.D

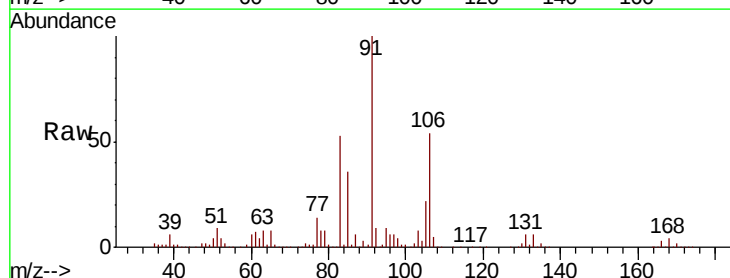
Acq: 3 Nov 2020 14:18

Tgt Ion: 91 Resp: 6292470

Ion Ratio Lower Upper

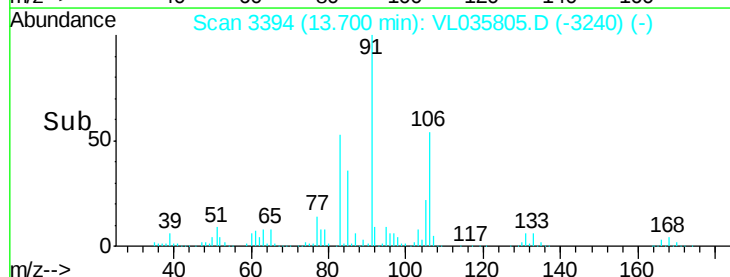
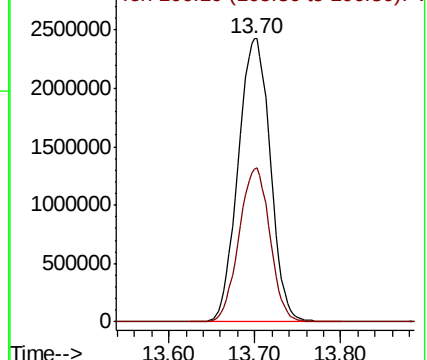
91 100

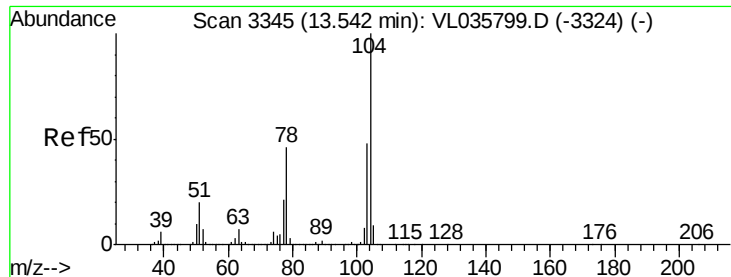
106 52.4 24.8 74.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Stvrene

Concen: 15.900 ppbv

RT: 13.54 min Scan# 3343

Delta R.T. -0.01 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:104 Resp: 5350925

Ion Ratio Lower Upper

104 100

78 45.1 37.1 55.7

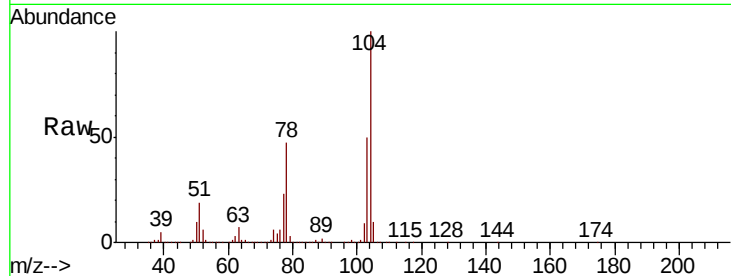
103 48.6 37.9 56.9

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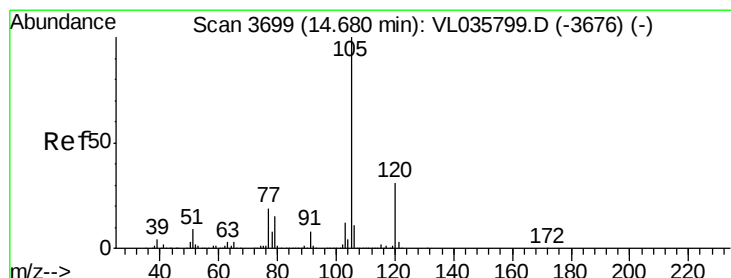
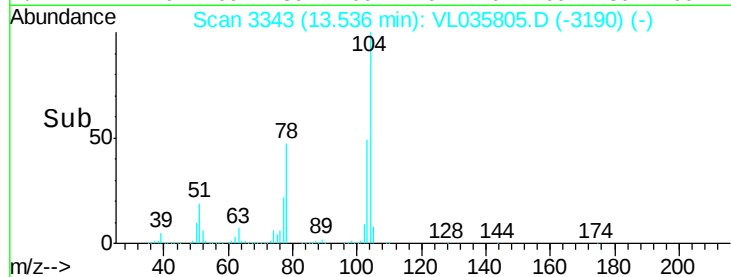
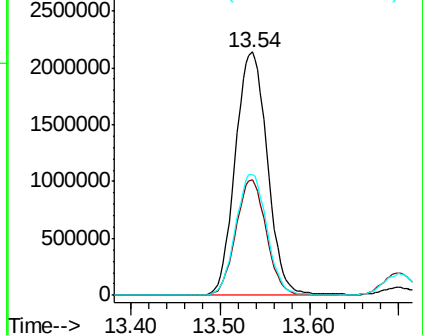
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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 12.298 ppbv

RT: 14.67 min Scan# 3697

Delta R.T. -0.01 min

Lab File: VL035805.D

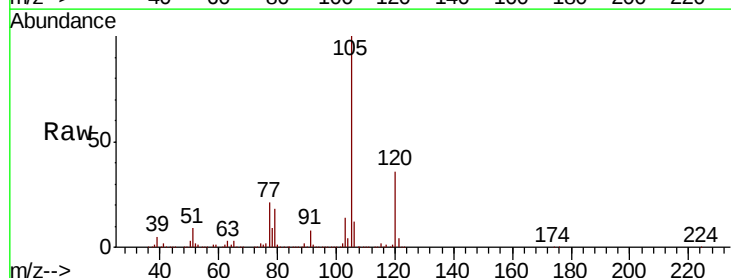
Acq: 3 Nov 2020 14:18

Tgt Ion:105 Resp: 9283843

Ion Ratio Lower Upper

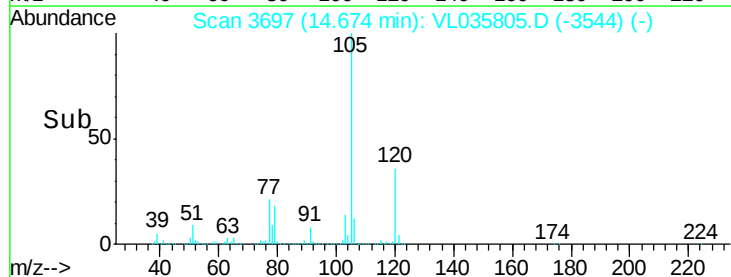
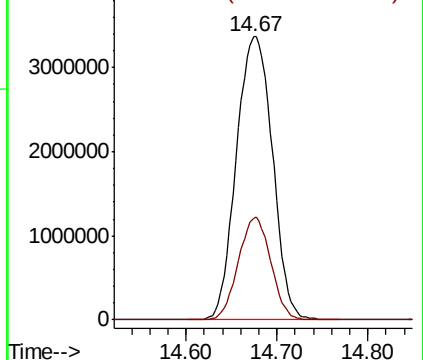
105 100

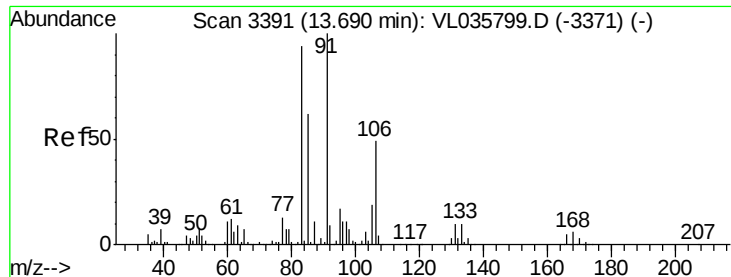
120 32.7 23.5 35.3



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





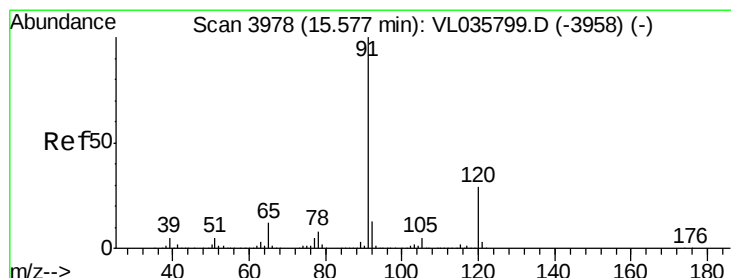
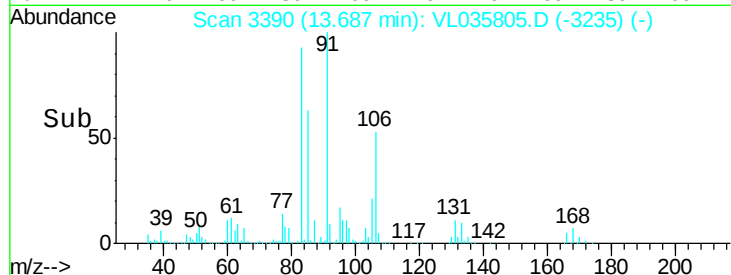
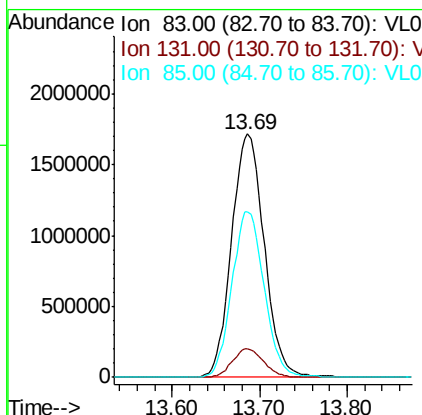
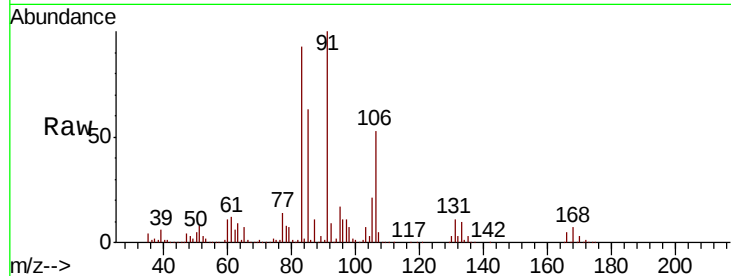
#63
 1,1,2,2-Tetrachloroethane
 Concen: 11.146 ppbv
 RT: 13.69 min Scan# 3390
 Delta R.T. -0.00 min
 Lab File: VL035805.D
 Acq: 3 Nov 2020 14:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 83 Resp: 4448193
 Ion Ratio Lower Upper
 83 100
 131 11.3 5.3 15.8
 85 67.7 33.5 100.4

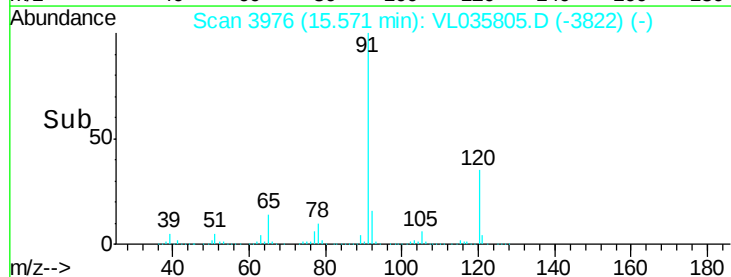
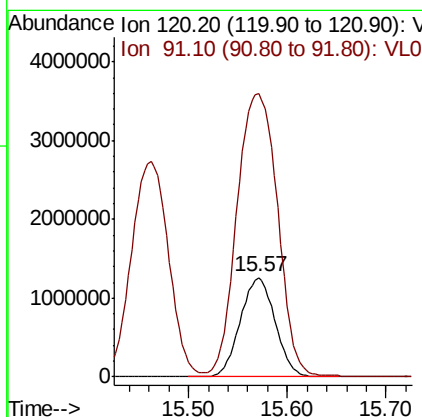
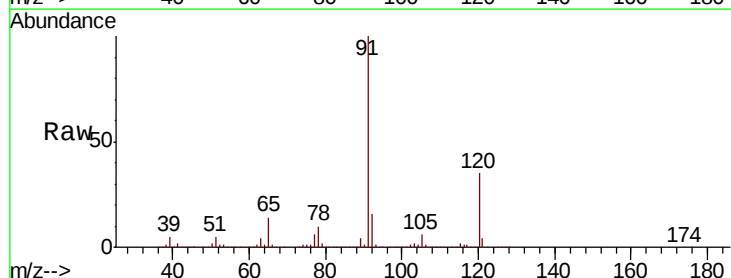
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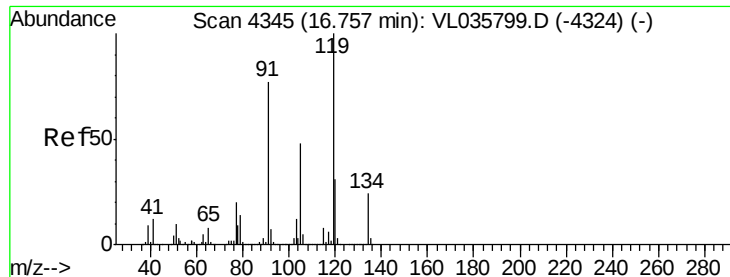
MMDadoda
 11/5/2020 2:13:31 PM



#64
 n-propylbenzene
 Concen: 13.927 ppbv
 RT: 15.57 min Scan# 3976
 Delta R.T. -0.01 min
 Lab File: VL035805.D
 Acq: 3 Nov 2020 14:18

Tgt Ion: 120 Resp: 3076998
 Ion Ratio Lower Upper
 120 100
 91 334.3 311.1 466.7





#65

tert-Butylbenzene

Concen: 12.180 ppbv

RT: 16.75 min Scan# 4344

Delta R.T. -0.00 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:119 Resp: 8359817

Ion Ratio Lower Upper

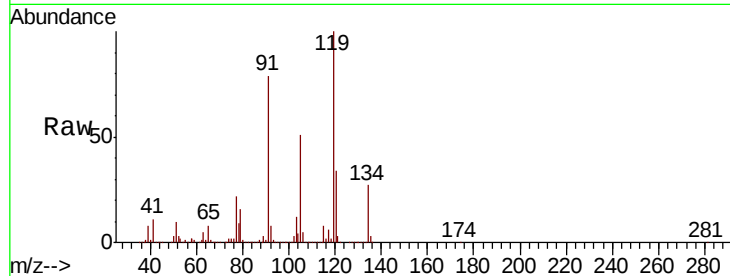
119 100

91 76.5 62.0 93.0

134 24.1 17.8 26.8

Manual Integrations
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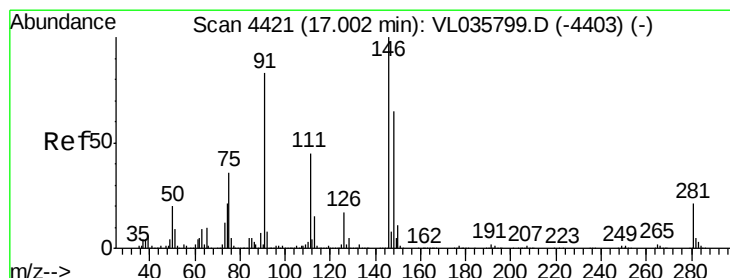
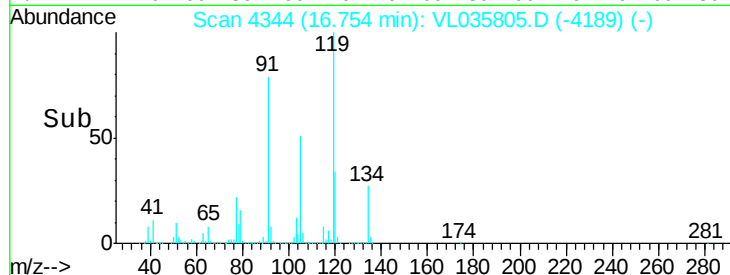
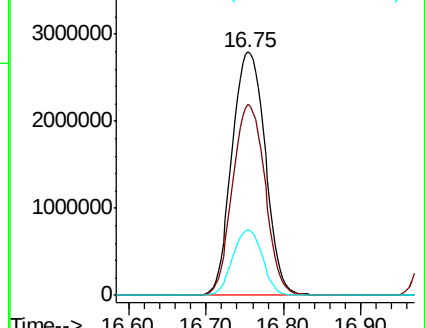
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 17.637 ppbv

RT: 17.00 min Scan# 4420

Delta R.T. -0.00 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

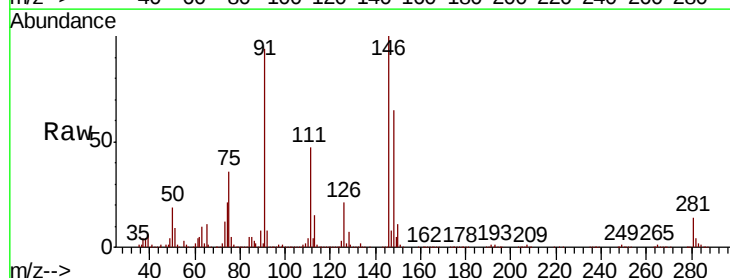
Tgt Ion: 91 Resp: 3667603

Ion Ratio Lower Upper

91 100

126 22.1 16.0 24.0

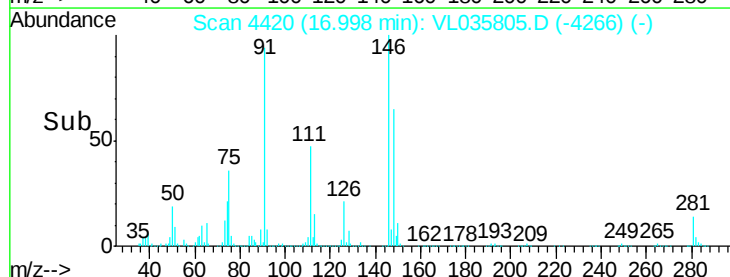
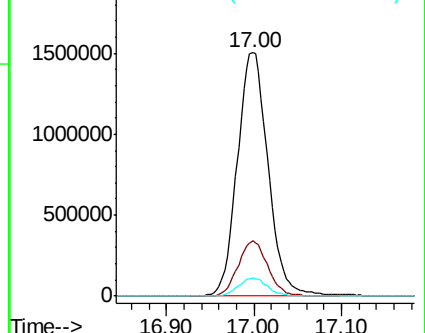
128 7.1 5.0 7.4

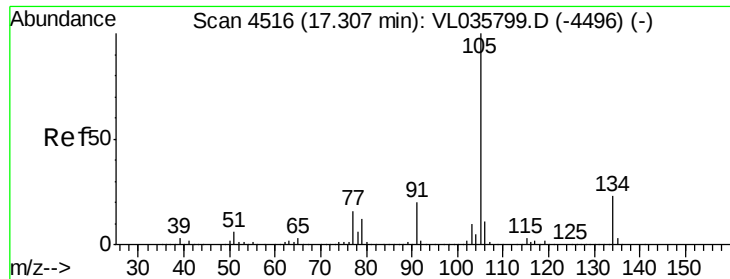


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





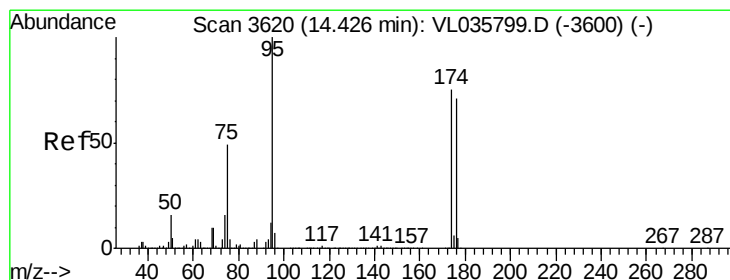
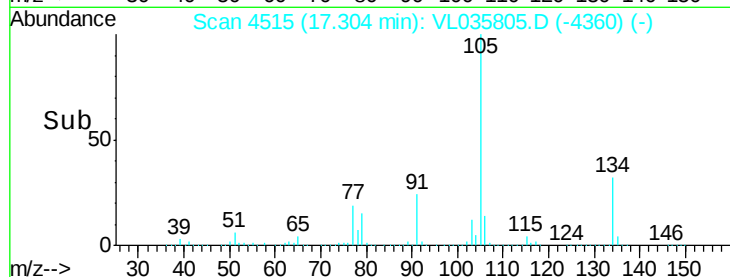
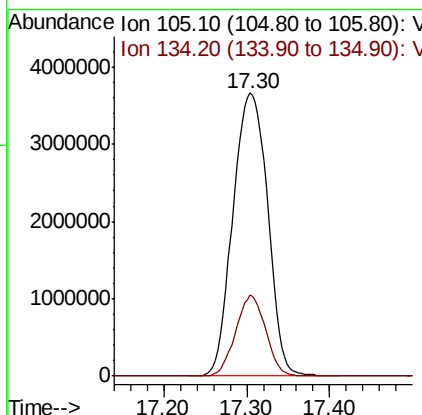
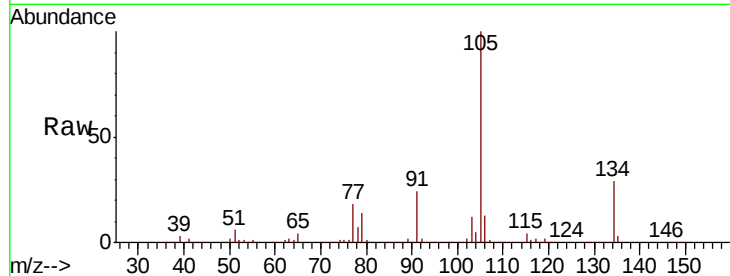
#67
 sec-Butylbenzene
 Concen: 11.239 ppbv
 RT: 17.30 min Scan# 4515
 Delta R.T. -0.00 min
 Lab File: VL035805.D
 Acq: 3 Nov 2020 14:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:105 Resp:10651946
 Ion Ratio Lower Upper
 105 100
 134 24.8 17.0 25.6

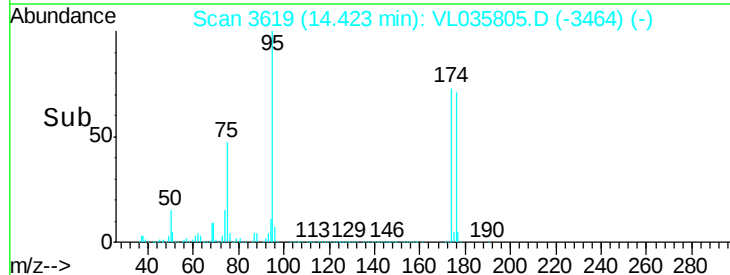
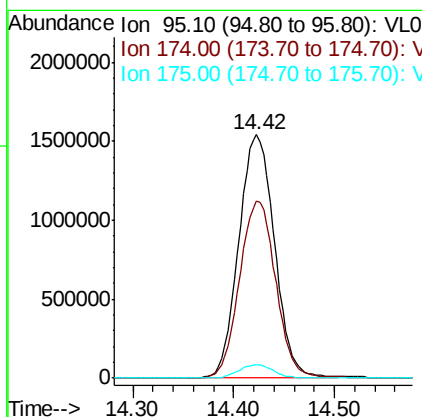
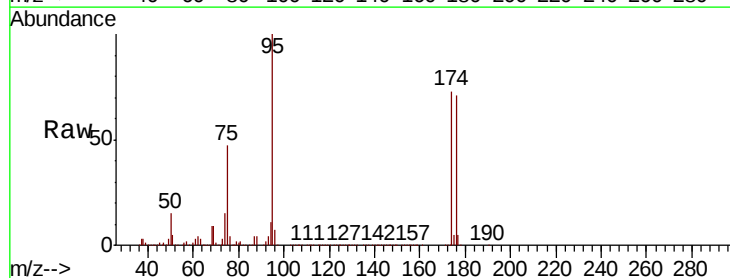
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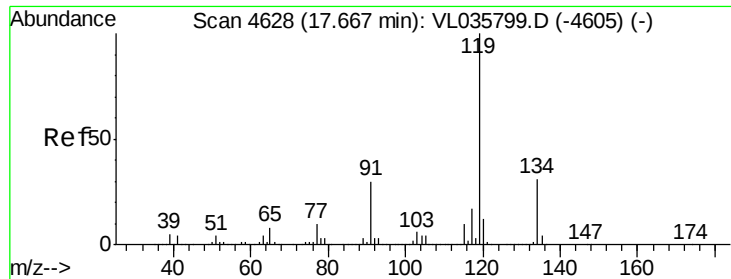
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.204 ppbv
 RT: 14.42 min Scan# 3619
 Delta R.T. -0.00 min
 Lab File: VL035805.D
 Acq: 3 Nov 2020 14:18

Tgt Ion: 95 Resp: 3785639
 Ion Ratio Lower Upper
 95 100
 174 74.4 59.8 89.6
 175 5.4 4.3 6.5





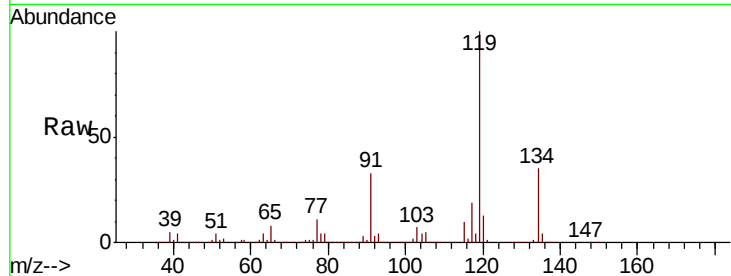
#69
 p-Isopropyltoluene
 Concen: 11.960 ppbv
 RT: 17.66 min Scan# 4627
 Delta R.T. -0.00 min
 Lab File: VL035805.D
 Acq: 3 Nov 2020 14:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

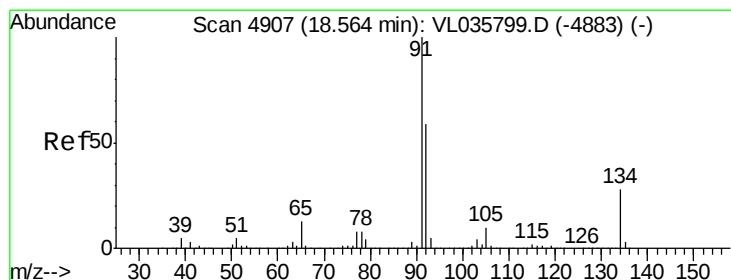
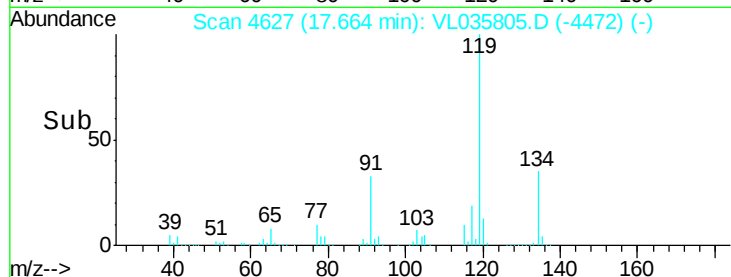
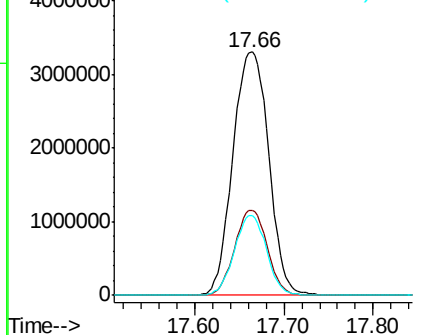
Tot Ion:119 Resp: 9222532
 Ion Ratio Lower Upper
 119 100
 134 32.0 23.0 34.6
 91 29.6 22.8 34.2

Manual Integrations
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 11/5/2020 2:13:31 PM

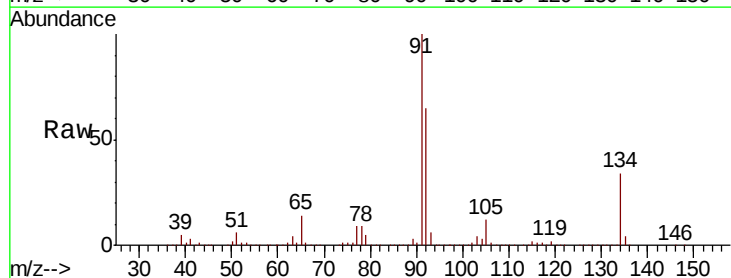


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

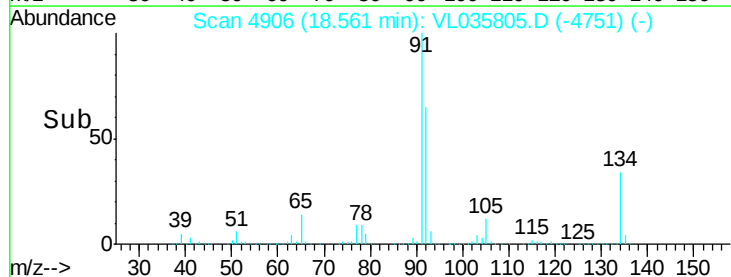
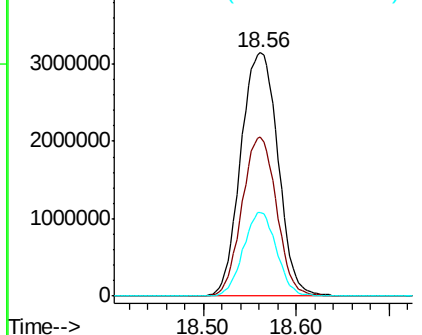


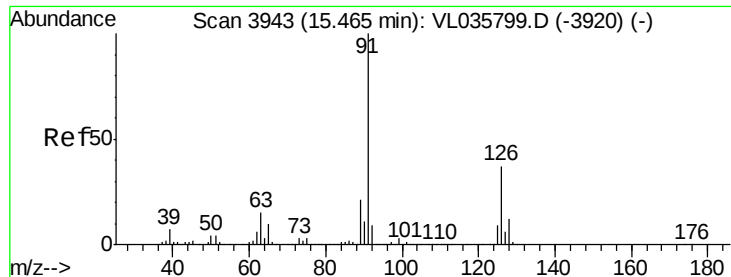
#70
 n-Butylbenzene
 Concen: 11.028 ppbv
 RT: 18.56 min Scan# 4906
 Delta R.T. -0.00 min
 Lab File: VL035805.D
 Acq: 3 Nov 2020 14:18

Tgt Ion: 91 Resp: 8756489
 Ion Ratio Lower Upper
 91 100
 92 61.0 45.7 68.5
 134 30.9 21.0 31.4



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





#71

2-Chlorotoluene

Concen: 13.079 ppbv

RT: 15.46 min Scan# 3942

Delta R.T. -0.00 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 7201763

Ion Ratio Lower Upper

91 100

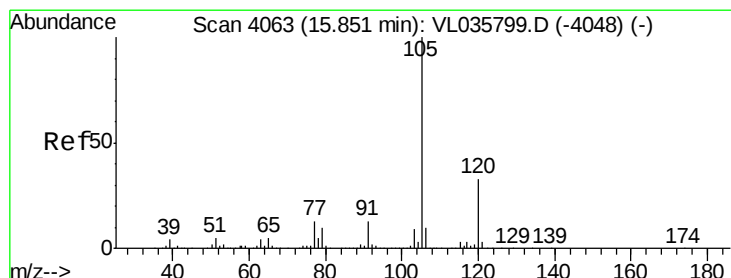
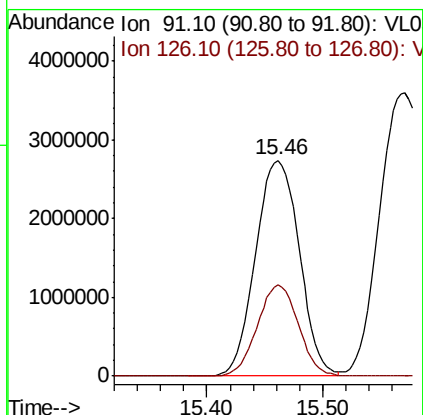
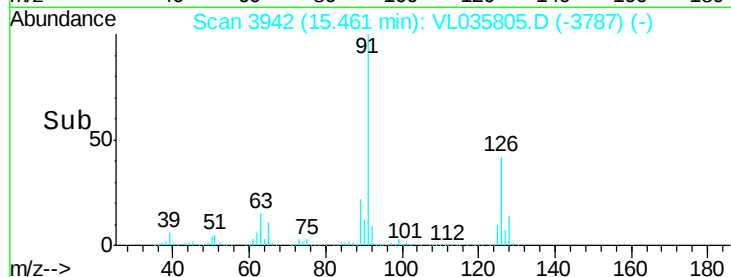
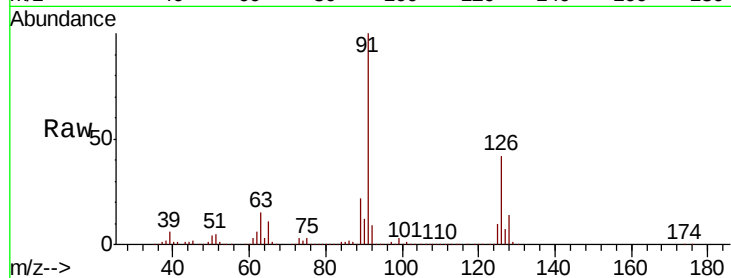
126 39.7 14.3 57.1

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#72

4-Ethyltoluene

Concen: 13.242 ppbv

RT: 15.85 min Scan# 4062

Delta R.T. -0.00 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

Tgt Ion: 105 Resp: 7634539

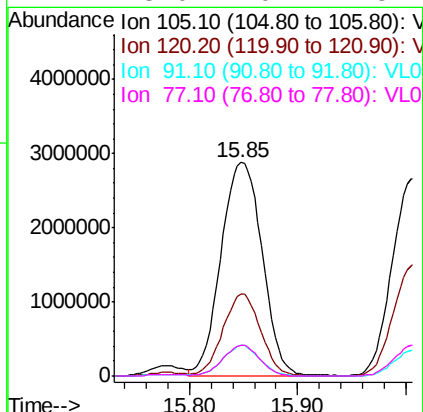
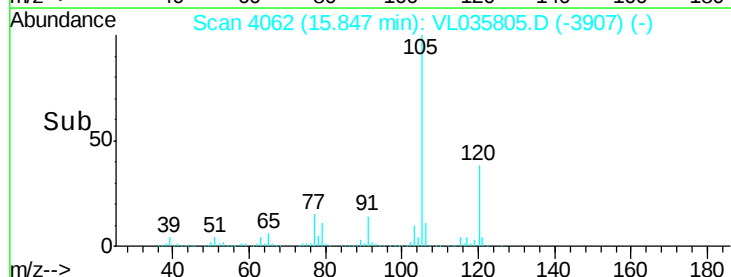
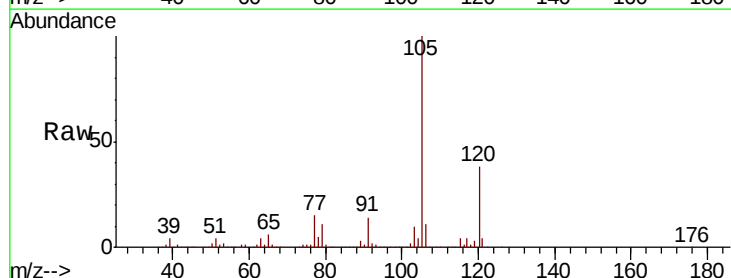
Ion Ratio Lower Upper

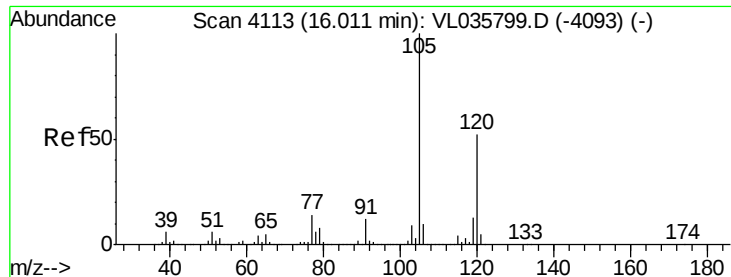
105 100

120 35.4 25.9 38.9

91 12.9 9.9 14.9

77 13.0 10.2 15.2





#73

1,3,5-Trimethylbenzene

Concen: 12.858 ppbv

RT: 16.00 min Scan# 4111

Delta R.T. -0.01 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 7005410

Ion Ratio Lower Upper

105 100

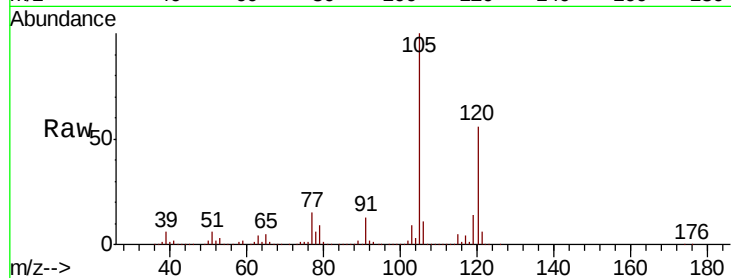
120 56.1 41.4 62.2

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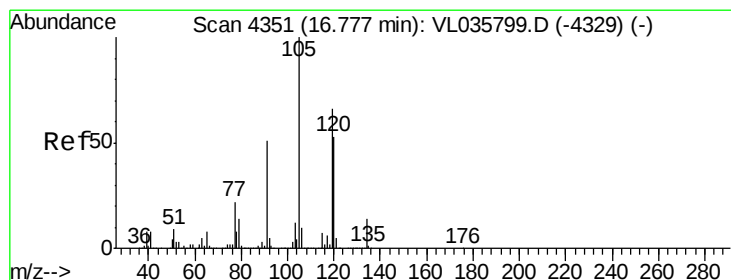
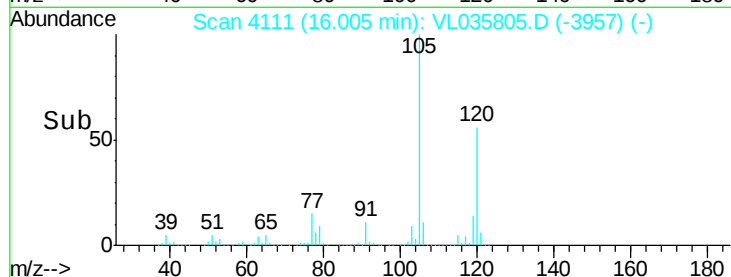
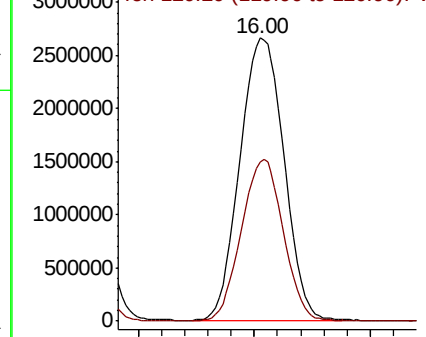
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 11.290 ppbv

RT: 16.77 min Scan# 4350

Delta R.T. -0.00 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

Tgt Ion:105 Resp: 6934183

Ion Ratio Lower Upper

105 100

120 57.5 42.0 63.0

91 54.5 41.0 61.6

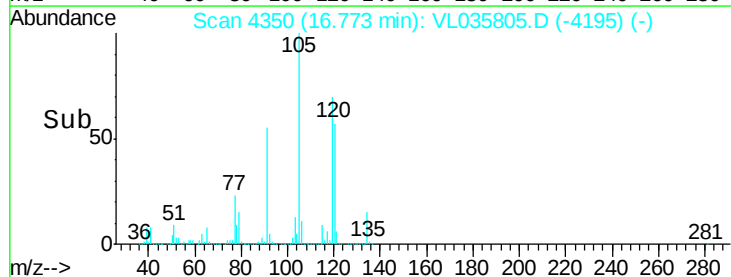
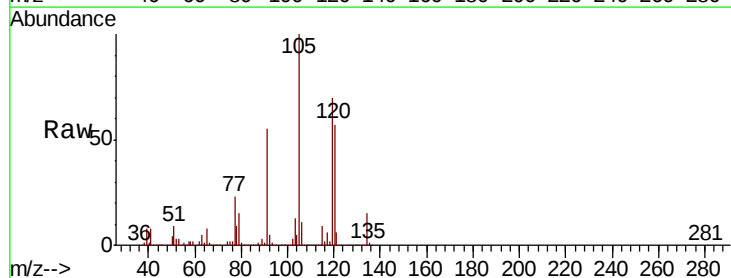
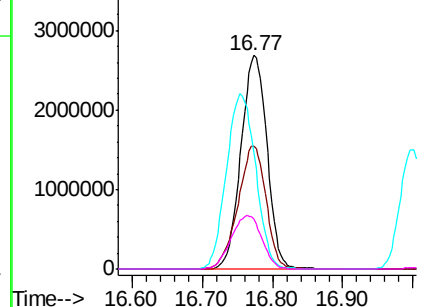
77 23.2 17.3 25.9

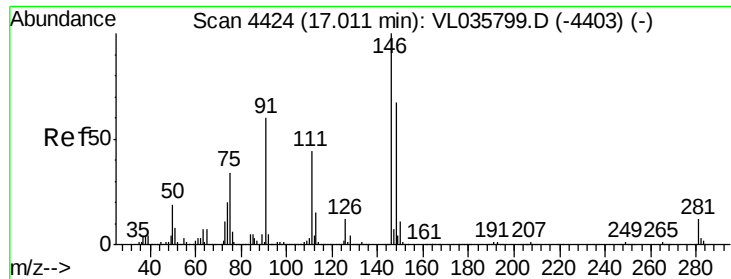
Abundance Ion 105.10 (104.80 to 105.80): V

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





#75

1,3-Dichlorobenzene

Concen: 11.160 ppbv

RT: 17.01 min Scan# 4423

Delta R.T. -0.00 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 4679647

Ion Ratio Lower Upper

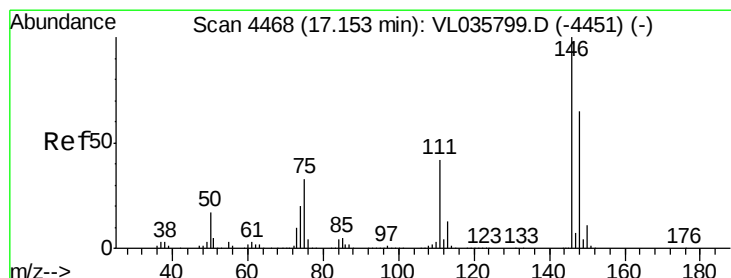
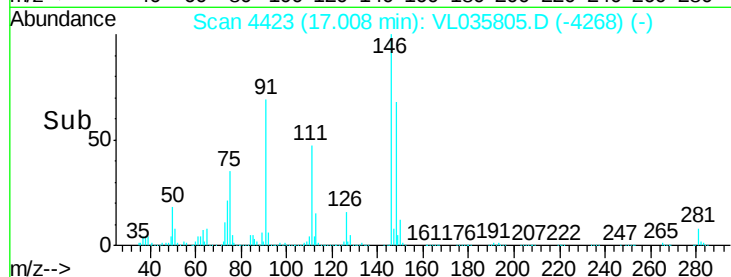
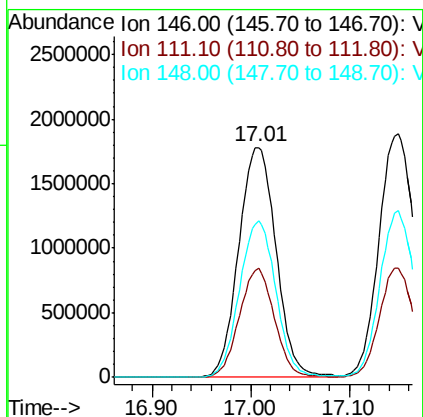
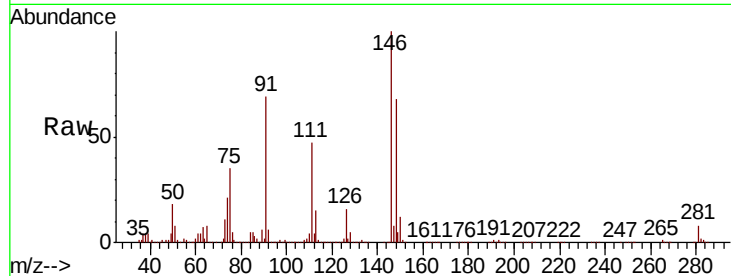
146 100

111 44.4 21.8 65.4

148 66.3 32.5 97.5

Manual Integrations
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#76

1,4-Dichlorobenzene

Concen: 11.946 ppbv

RT: 17.15 min Scan# 4467

Delta R.T. -0.00 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

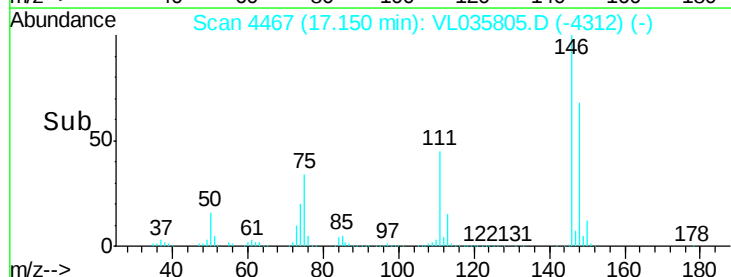
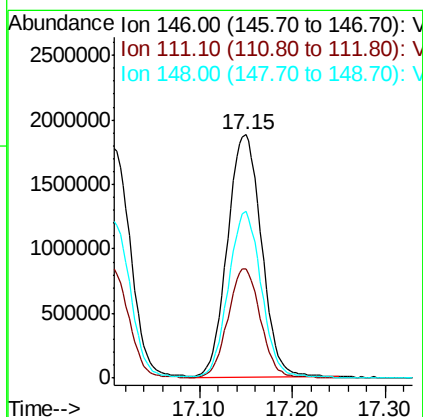
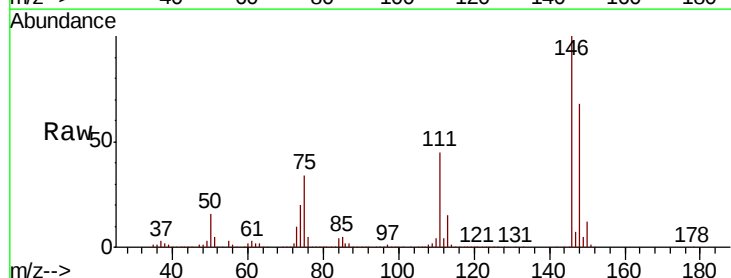
Tgt Ion:146 Resp: 4788048

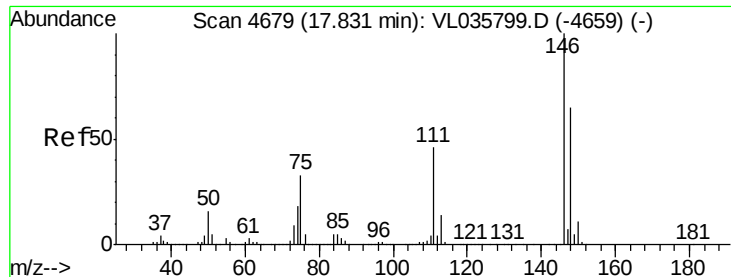
Ion Ratio Lower Upper

146 100

111 43.4 21.3 63.7

148 66.8 33.0 99.0





#77

1,2-Dichlorobenzene

Concen: 11.777 ppbv

RT: 17.83 min Scan# 4678

Delta R.T. -0.00 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 4664271

Ion Ratio Lower Upper

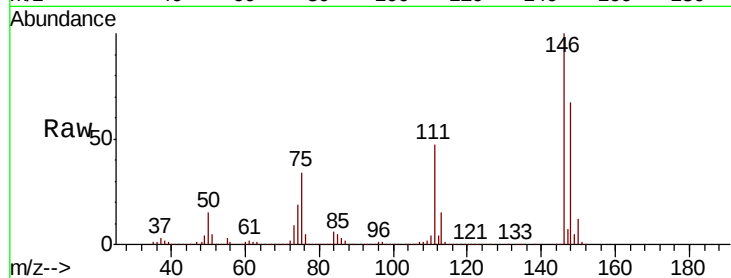
146 100

111 45.7 22.4 67.0

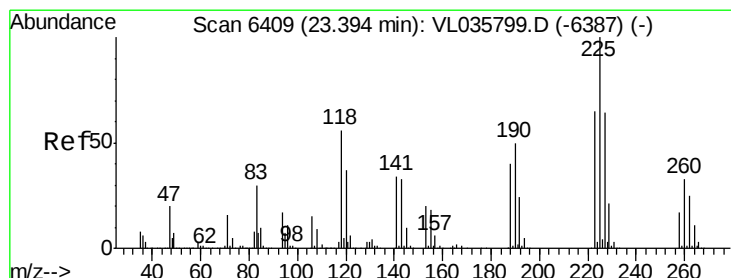
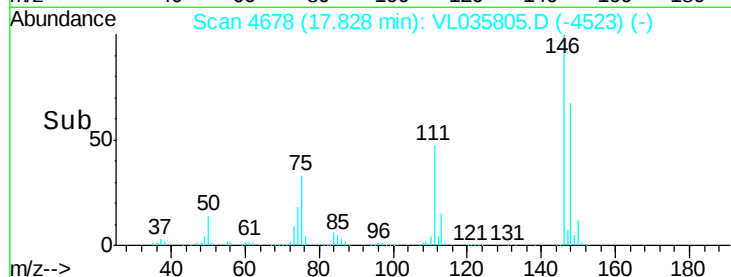
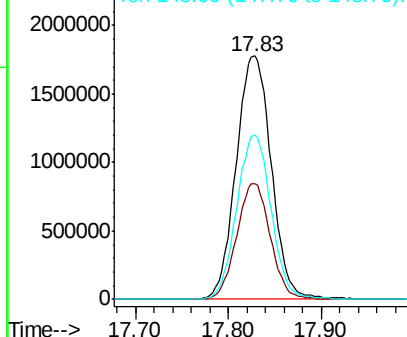
148 66.3 32.5 97.5

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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 9.367 ppbv

RT: 23.39 min Scan# 6407

Delta R.T. -0.01 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

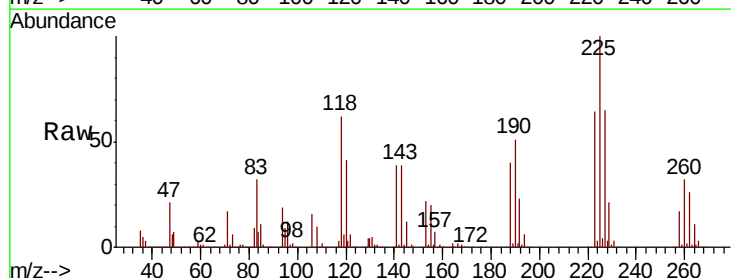
Tgt Ion:225 Resp: 2046752

Ion Ratio Lower Upper

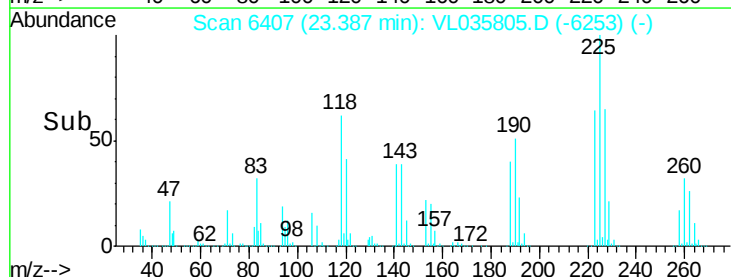
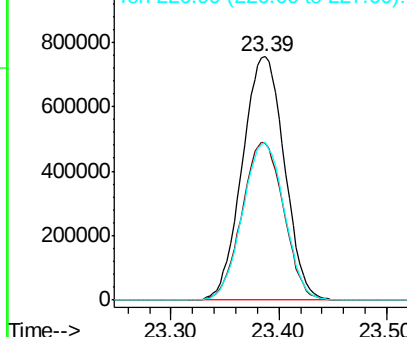
225 100

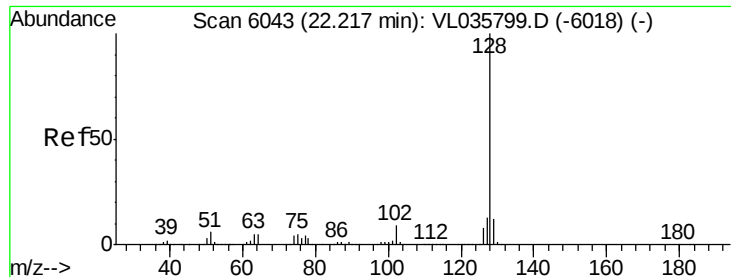
223 64.2 51.0 76.6

227 64.2 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: 10.601 ppbv

RT: 22.21 min Scan# 6040

Delta R.T. -0.01 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:128 Resp: 6210217

Ion Ratio Lower Upper

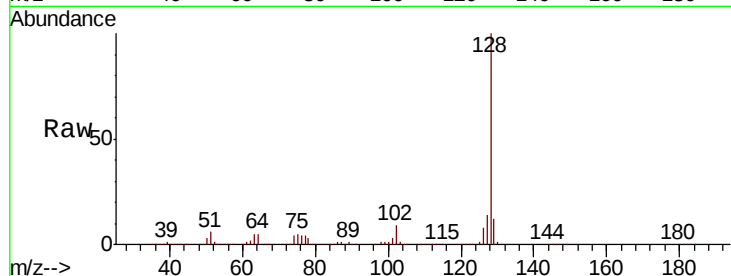
128 100

127 13.7 10.2 15.4

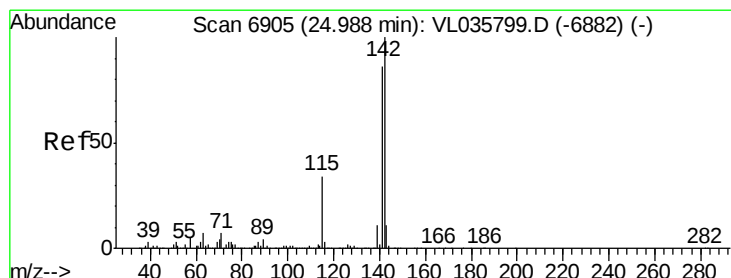
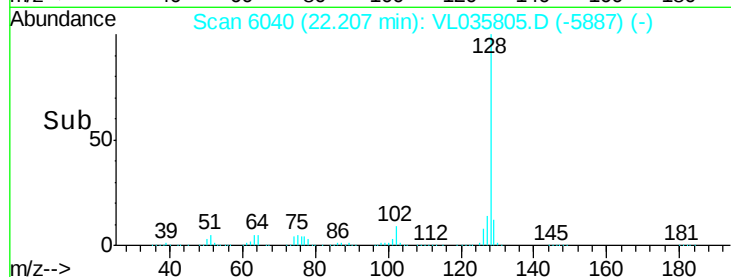
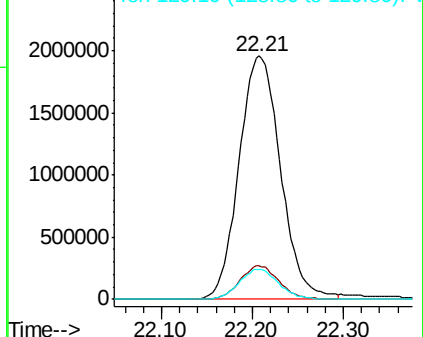
129 12.3 9.2 13.8

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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: 11.067 ppbv

RT: 24.98 min Scan# 6903

Delta R.T. -0.01 min

Lab File: VL035805.D

Acq: 3 Nov 2020 14:18

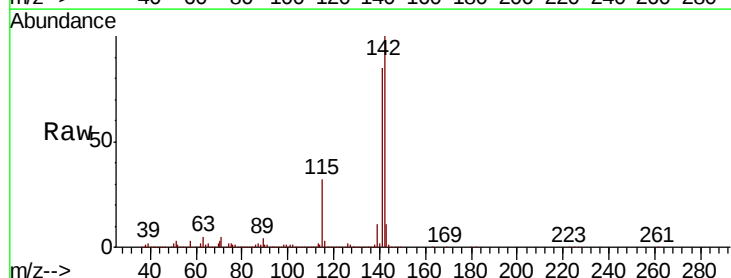
Tgt Ion:142 Resp: 1529226

Ion Ratio Lower Upper

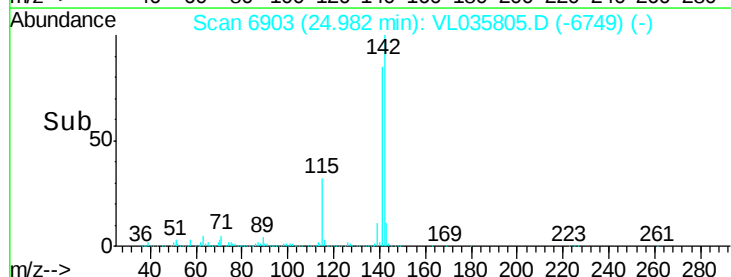
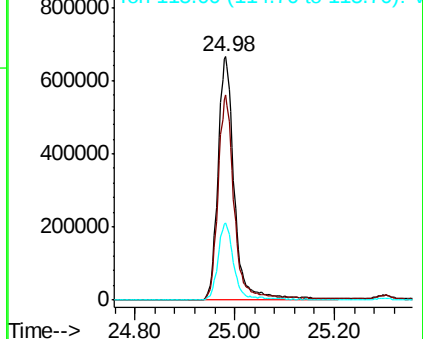
142 100

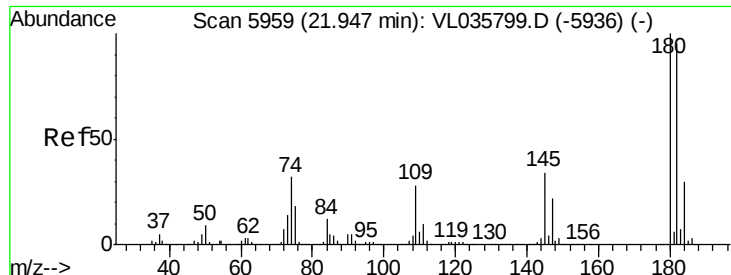
141 84.7 67.8 101.8

115 30.7 28.1 42.1



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: 10.658 ppbv
 RT: 21.94 min Scan# 5956
 Delta R.T. -0.01 min
 Lab File: VL035805.D
 Acq: 3 Nov 2020 14:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.2	77.2	115.8
184	31.4	24.7	37.1

Manual Integrations
 APPROVED

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