

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073019\
 Data File : VL034057.D
 Acq On : 30 Jul 2019 9:20
 Operator : SY/AP
 Sample : VL0730ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0730ABS01

Manual Integrations
 APPROVED

MMdadoda
 8/2/2019 9:37:42 AM

Quant Time: Jul 31 02:23:14 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073019AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 31 02:23:14 2019

QLast Update : Tue Jul 30 06:55:18 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.72	49	1108263	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.25	114	4281645	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.19	117	3202956	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	2542960	10.04	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.05	85	1726109	8.108	ppbv 95
3) Chlorodifluoromethane	2.99	51	1103668	8.627	ppbv 99
4) Chloromethane	3.14	50	627734	8.366	ppbv 98
5) Vinyl Chloride	3.26	62	689135	8.335	ppbv 97
6) Bromomethane	3.49	94	452284	8.689	ppbv 97
7) Chloroethane	3.57	64	295122	8.808	ppbv 92
8) Dichlorotetrafluoroethane	3.19	85	1785074	8.418	ppbv 99
9) Propene	3.01	41	409411	8.914	ppbv 99
10) Heptane	8.20	43	1328198	10.603	ppbv 99
11) Trichlorofluoromethane	3.97	101	2047236	8.647	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.52	101	1465904	9.205	ppbv 100
13) Ethanol	3.62	45	110564m	6.048	ppbv
14) Bromoethene	3.76	108	595830	8.860	ppbv 97
15) Acetone	3.87	43	1339261	7.948	ppbv 100
16) 1,3-Butadiene	3.34	39	587284	8.976	ppbv 98
17) tert-Butyl alcohol	4.32	59	1377111	9.940	ppbv 99
18) 1,1-Dichloroethene	4.32	96	707363	9.805	ppbv 95
19) Isopropyl Alcohol	3.99	45	972356	8.450	ppbv 100
20) Methylene Chloride	4.37	84	596963	9.263	ppbv 97
21) Allyl Chloride	4.44	41	1006608	9.466	ppbv 99
22) trans-1,2-Dichloroethene	4.92	96	673867	9.015	ppbv 95
23) Vinyl Acetate	5.12	43	1724981	9.560	ppbv 99
24) 1,1-Dichloroethane	5.05	63	1397644	8.719	ppbv 98
25) Ethyl Acetate	5.73	43	2387997	9.533	ppbv 99
26) Hexane	5.74	57	1069984	9.444	ppbv 98
27) Carbon Disulfide	4.58	76	1844945	10.457	ppbv 99
28) Methyl tert-Butyl Ether	5.07	73	1766040	9.158	ppbv 98
29) Chloroform	5.81	83	1862912	9.002	ppbv 95
30) Cyclohexane	7.20	84	1367728	11.881	ppbv 98
31) cis-1,2-Dichloroethene	5.60	61	1139124	10.316	ppbv 98
32) 1,1,1-Trichloroethane	6.58	97	1836985	8.458	ppbv 99
34) 2-Butanone	5.29	43	1353132	7.679	ppbv 99
35) Carbon Tetrachloride	7.09	117	3076960	10.183	ppbv 97
36) Benzene	6.96	78	3118959	10.943	ppbv 96
37) 1,2-Dichloroethane	6.37	62	1460438	7.457	ppbv 99
38) Trichloroethene	7.91	130	1020857	8.547	ppbv 96
39) 1,2-Dichloropropane	7.69	63	1181528	10.215	ppbv 93
40) 1,4-Dioxane	7.91	88	383124	8.388	ppbv 90
41) Tetrahydrofuran	6.10	42	750911	8.389	ppbv 99
42) Bromodichloromethane	7.87	83	2221668	8.204	ppbv 95
43) Methyl Methacrylate	8.09	69	937668	9.230	ppbv 99

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 8/2/2019 9:37:42 AM

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073019AIR.M

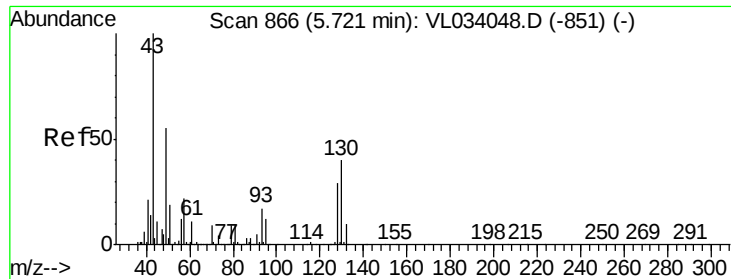
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 31

QLast Update : Tue Jul 30 06:55:18 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.94	57	3953557	8.354	ppbv	100
45) t-1,3-Dichloropropene	9.37	75	1356364	10.377	ppbv	99
46) cis-1,3-Dichloropropene	8.79	75	1521640	10.357	ppbv	98
47) 1,1,2-Trichloroethane	9.57	97	1049062	8.719	ppbv	98
48) Dibromochloromethane	10.41	129	1931961	8.411	ppbv	98
49) Bromoform	13.15	173	1854667	9.262	ppbv	99
50) 4-Methyl-2-Pentanone	8.82	43	2426826	9.277	ppbv	98
51) 2-Hexanone	10.23	43	2020835	9.289	ppbv	100
52) Tetrachloroethene	11.32	164	1008854	9.027	ppbv	98
53) Toluene	9.90	91	2951701	9.925	ppbv	100
54) 1,2-Dibromoethane	10.71	107	1631696	9.137	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.23	131	1319782	9.221	ppbv	97
57) Chlorobenzene	12.25	112	2302297	9.278	ppbv	98
58) Ethyl Benzene	12.81	91	4117076	10.861	ppbv	98
59) m/p-Xylene	13.10	91	6838557m	19.846	ppbv	
60) o-Xylene	13.80	91	3452995	10.082	ppbv	100
61) Styrene	13.63	104	2569170	11.360	ppbv	99
62) Isopropylbenzene	14.78	105	4608774	10.045	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.79	83	2394135	9.109	ppbv	100
64) n-propylbenzene	15.67	120	1147213	9.655	ppbv	97
65) tert-Butylbenzene	16.86	119	4100631	9.695	ppbv	99
66) Benzyl Chloride	17.10	91	2260228	10.649	ppbv	99
67) sec-Butylbenzene	17.41	105	5727654	9.526	ppbv	100
69) p-Isopropyltoluene	17.77	119	4768839	9.731	ppbv	100
70) n-Butylbenzene	18.66	91	4987225	9.614	ppbv	99
71) 2-Chlorotoluene	15.56	91	3461369	10.391	ppbv	100
72) 4-Ethyltoluene	15.95	105	4046900	10.450	ppbv	99
73) 1,3,5-Trimethylbenzene	16.11	105	3769886	9.565	ppbv	98
74) 1,2,4-Trimethylbenzene	16.87	105	4001372	9.242	ppbv #	86
75) 1,3-Dichlorobenzene	17.12	146	2358953	8.733	ppbv	99
76) 1,4-Dichlorobenzene	17.26	146	2355300	9.239	ppbv	99
77) 1,2-Dichlorobenzene	17.94	146	2246388	9.033	ppbv	100
78) Hexachloro-1,3-Butadiene	23.49	225	1863167	8.144	ppbv	100
79) Naphthalene	22.35	128	3724355	9.868	ppbv	97
80) Naphthalene, 2-methyl-	25.07	142	1223909	9.301	ppbv	99
81) 1,2,4-Trichlorobenzene	22.07	180	2248565	9.242	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.72 min Scan# 866

Delta R.T. -0.00 min

Lab File: VL034057.D

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Instrument :

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VL0730ABS01

Tot Ion: 49 Resp: 1108263

Ion Ratio Lower Upper

49 100

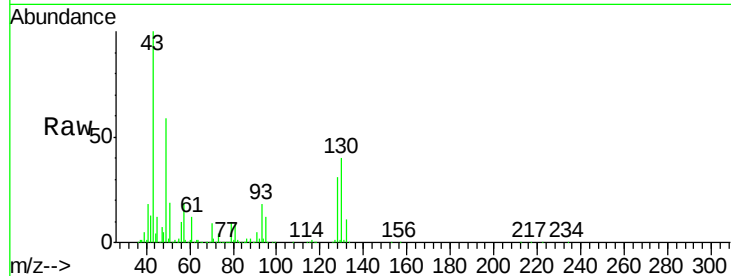
128 55.1 27.0 81.0

130 70.0 35.0 105.0

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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

800000

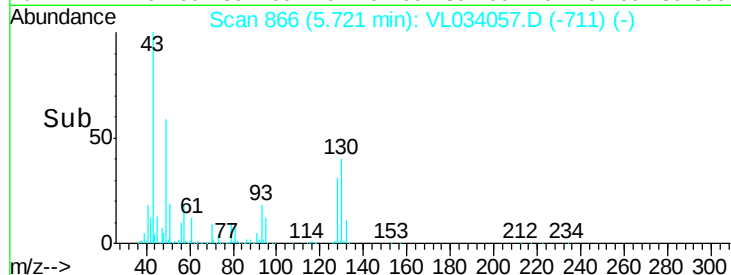
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400000

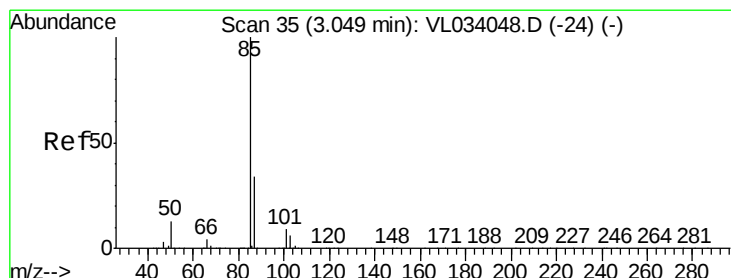
200000

0

5.65 5.70 5.75



Time-->



#2

Dichlorodifluoromethane

Concen: 8.108 ppbv

RT: 3.05 min Scan# 35

Delta R.T. -0.00 min

Lab File: VL034057.D

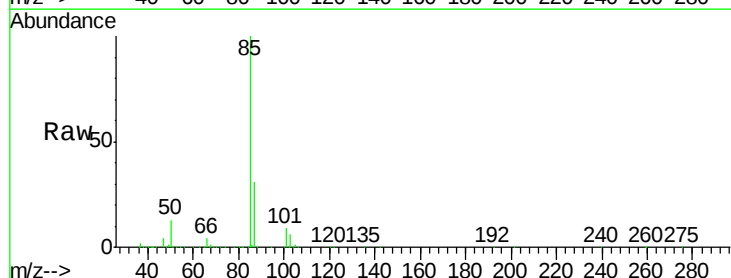
Acq: 30 Jul 2019 9:20

Tgt Ion: 85 Resp: 1726109

Ion Ratio Lower Upper

85 100

87 30.9 27.0 40.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

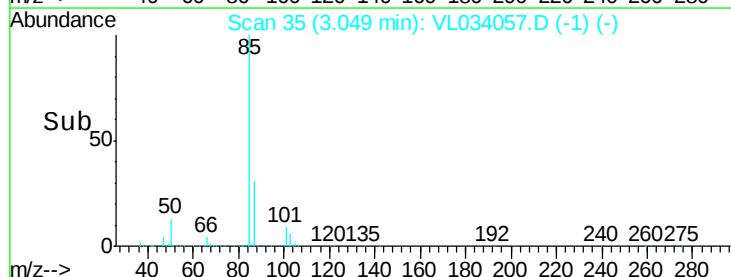
1500000

1000000

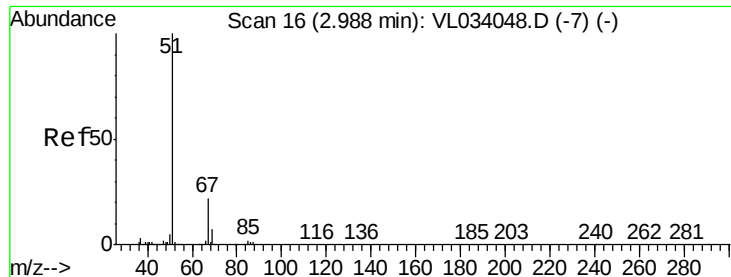
500000

0

3.00 3.05 3.10



Time-->



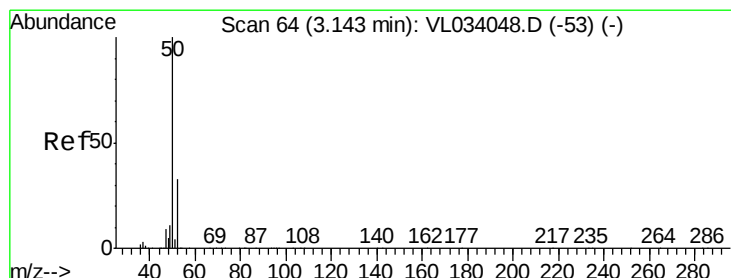
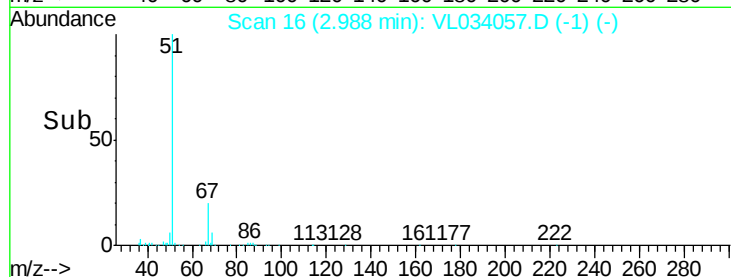
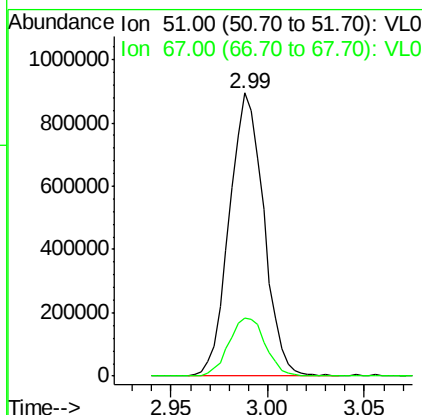
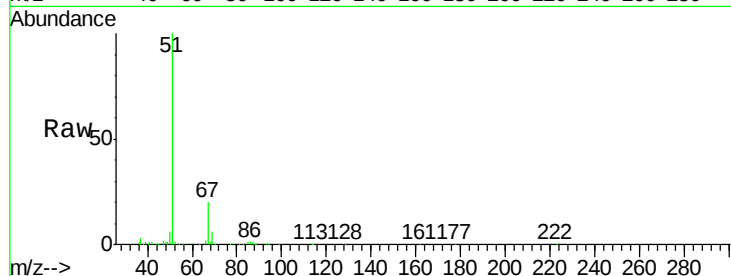
#3
Chlorodifluoromethane
Concen: 8.627 ppbv
RT: 2.99 min Scan# 16
Delta R.T. -0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Instrument :
MSVOA_L
ClientSampleId :
VL0730ABS01

Tot Ion: 51 Resp: 1103668
Ion Ratio Lower Upper
51 100
67 22.1 17.4 26.0

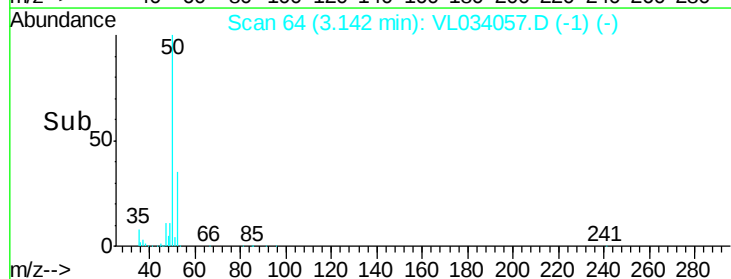
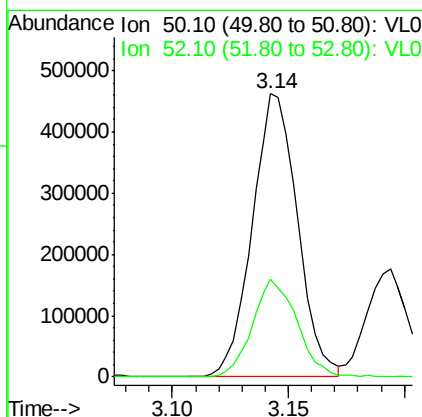
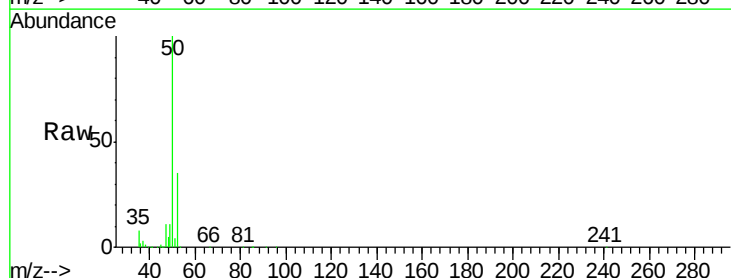
Manual Integrations
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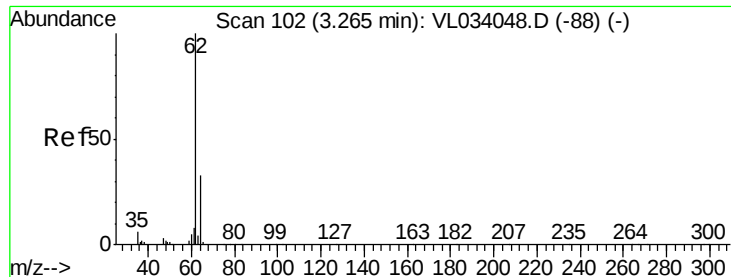
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#4
Chloromethane
Concen: 8.366 ppbv
RT: 3.14 min Scan# 64
Delta R.T. -0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Tgt Ion: 50 Resp: 627734
Ion Ratio Lower Upper
50 100
52 34.8 26.7 40.1





#5

Vinyl Chloride

Concen: 8.335 ppbv

RT: 3.26 min Scan# 102

Delta R.T. -0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

VL0730ABS01

Tot Ion: 62 Resp: 689135

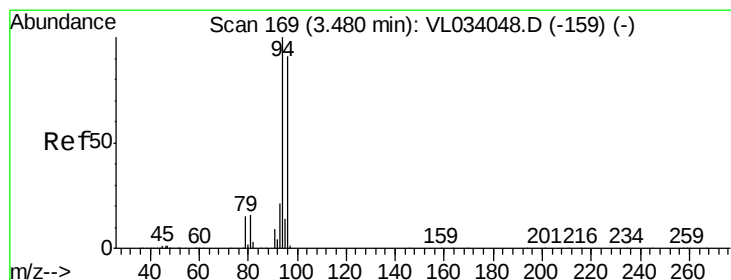
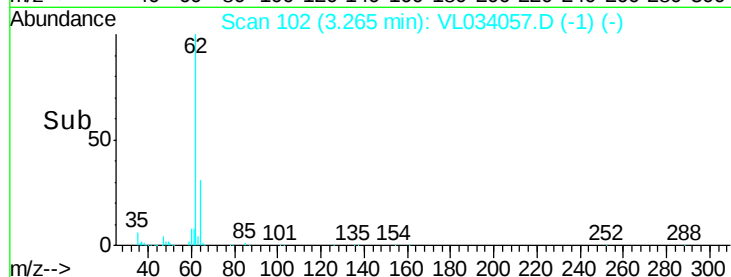
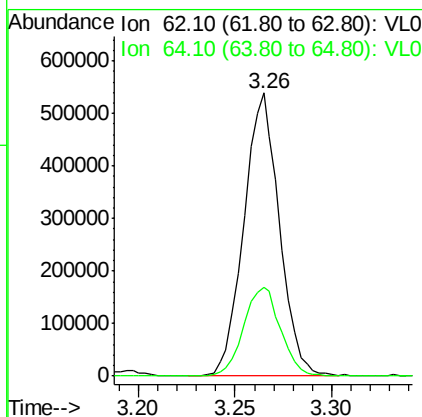
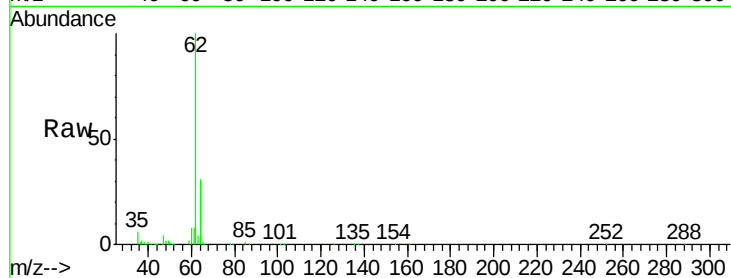
Ion Ratio Lower Upper

62 100

64 31.2 26.5 39.7

Manual Integrations
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#6

Bromomethane

Concen: 8.689 ppbv

RT: 3.49 min Scan# 171

Delta R.T. 0.01 min

Lab File: VL034057.D

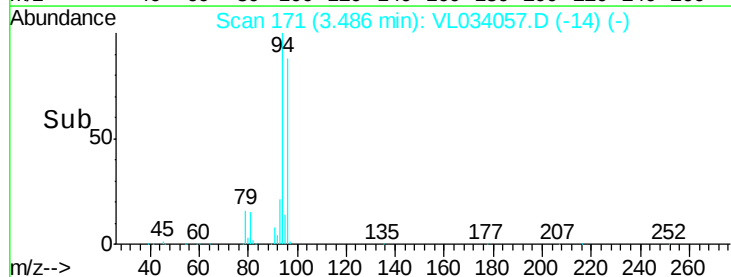
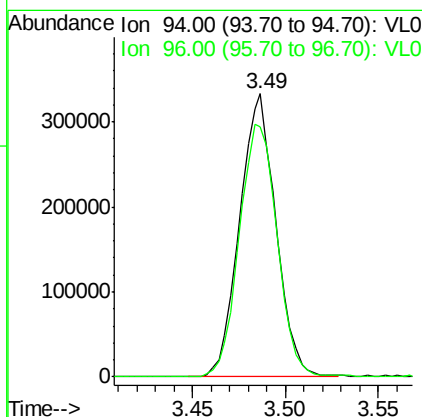
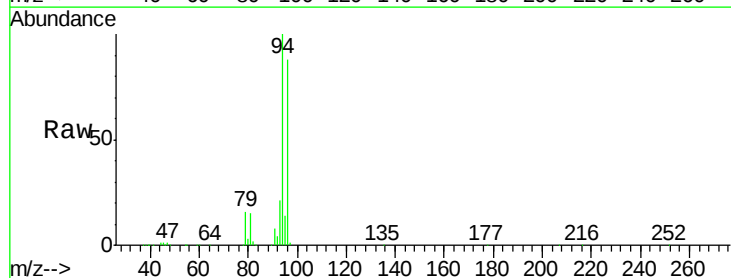
Acq: 30 Jul 2019 9:20

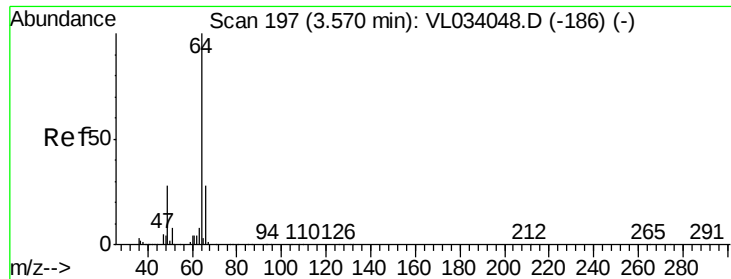
Tgt Ion: 94 Resp: 452284

Ion Ratio Lower Upper

94 100

96 88.2 72.6 108.8





#7

Chloroethane

Concen: 8.808 ppbv

RT: 3.57 min Scan# 197

Delta R.T. -0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

VL0730ABS01

Tot Ion: 64 Resp: 295122

Ion Ratio Lower Upper

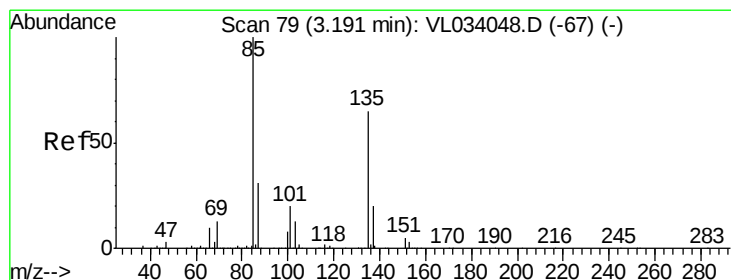
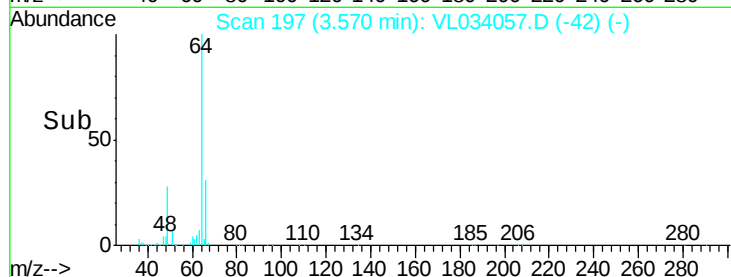
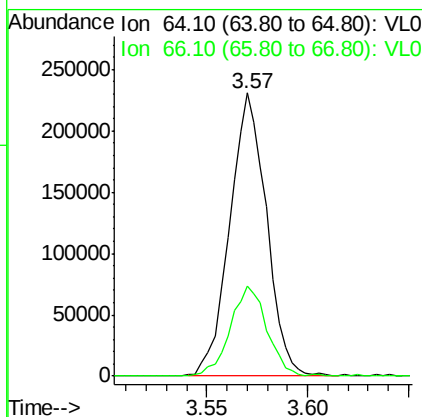
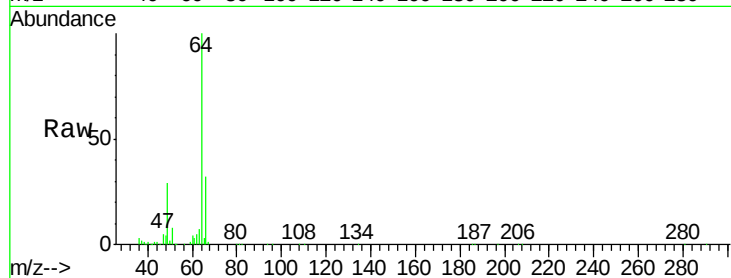
64 100

66 31.9 22.0 33.0

Manual Integrations
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#8

Dichlorotetrafluoroethane

Concen: 8.418 ppbv

RT: 3.19 min Scan# 80

Delta R.T. 0.00 min

Lab File: VL034057.D

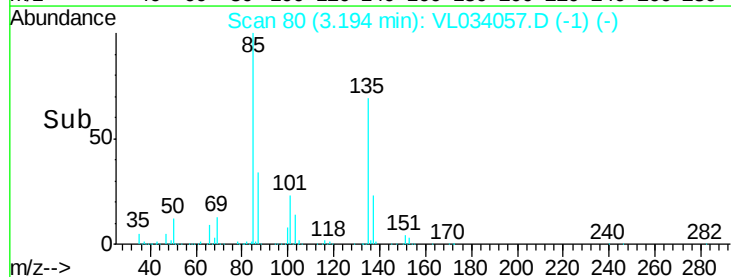
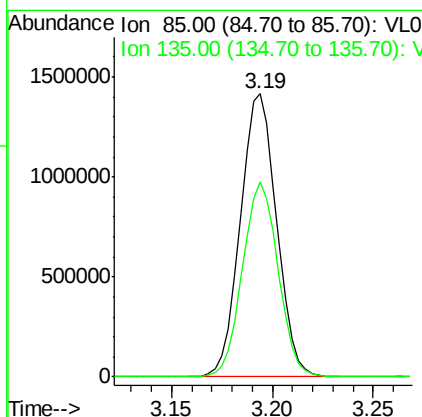
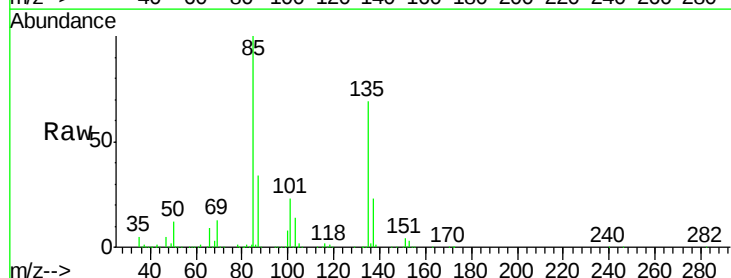
Acq: 30 Jul 2019 9:20

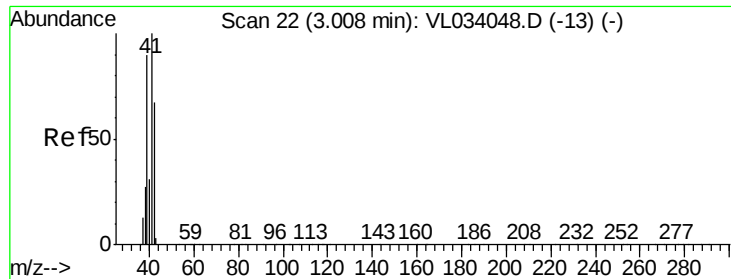
Tgt Ion: 85 Resp: 1785074

Ion Ratio Lower Upper

85 100

135 68.0 54.1 81.1





#9

Propene

Concen: 8.914 ppbv

RT: 3.01 min Scan# 23

Delta R.T. 0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

VL0730ABS01

Tot Ion: 41 Resp: 409411

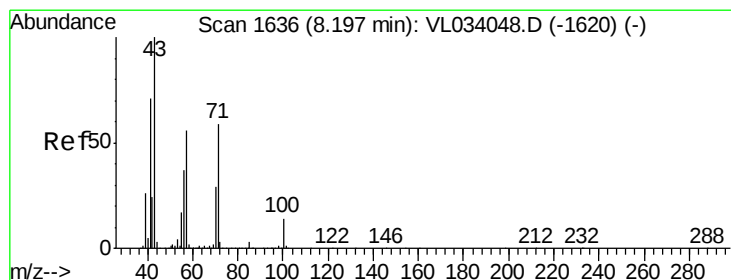
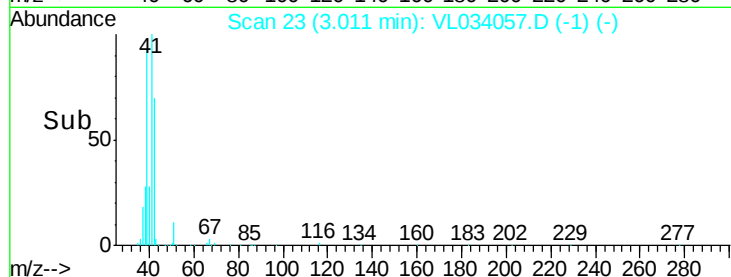
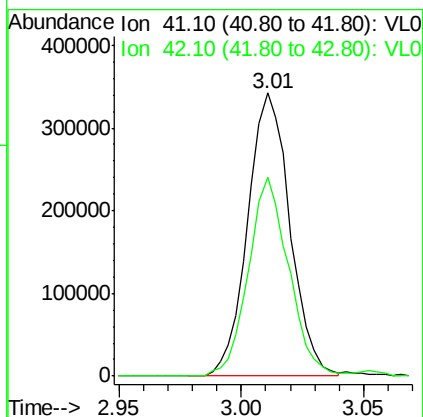
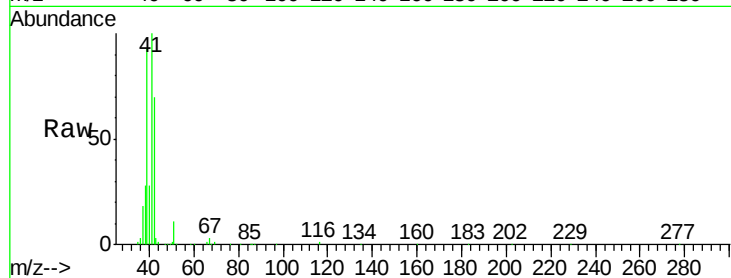
Ion Ratio Lower Upper

41 100

42 68.5 55.4 83.2

Manual Integrations
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#10

Heptane

Concen: 10.603 ppbv

RT: 8.20 min Scan# 1638

Delta R.T. 0.01 min

Lab File: VL034057.D

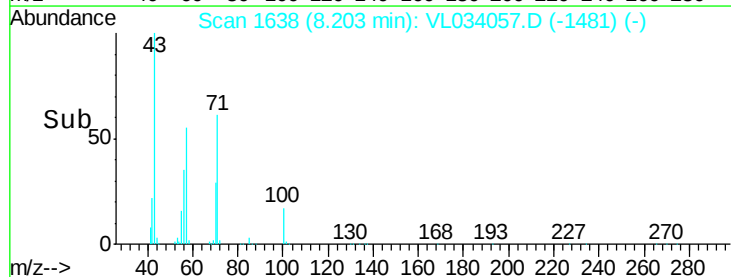
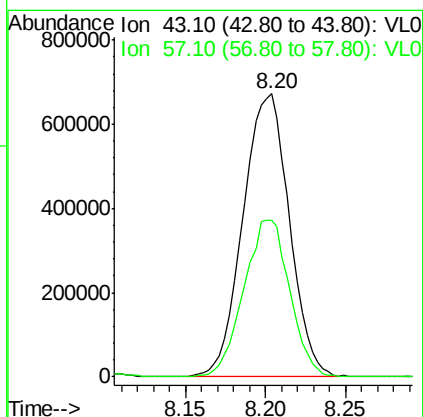
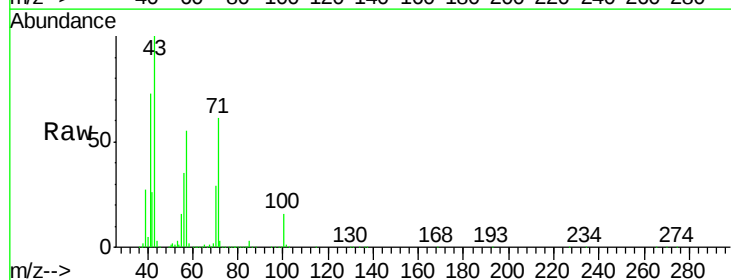
Acq: 30 Jul 2019 9:20

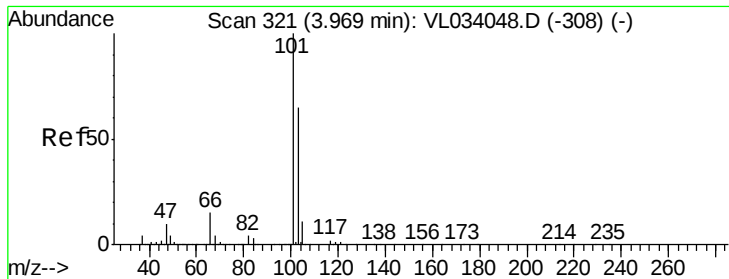
Tgt Ion: 43 Resp: 1328198

Ion Ratio Lower Upper

43 100

57 55.2 44.8 67.2





#11

Trichlorofluoromethane

Concen: 8.647 ppbv

RT: 3.97 min Scan# 322

Delta R.T. 0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

VL0730ABS01

Tot Ion:101 Resp: 2047236

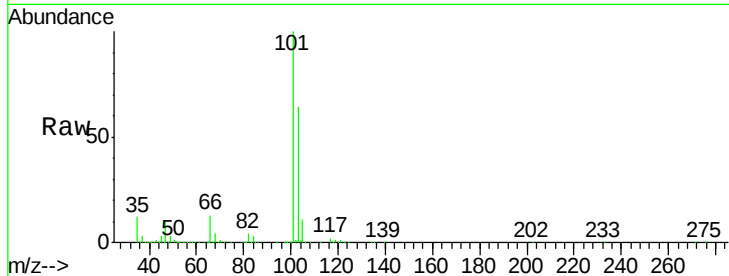
Ion Ratio Lower Upper

101 100

103 64.2 52.3 78.5

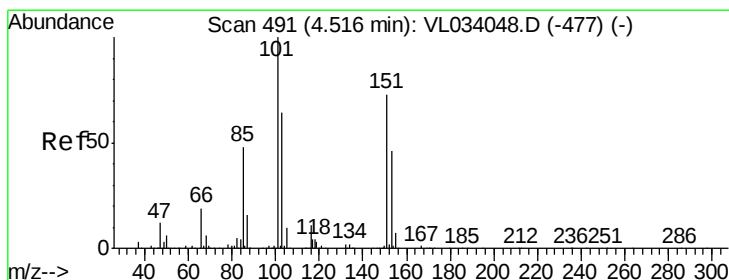
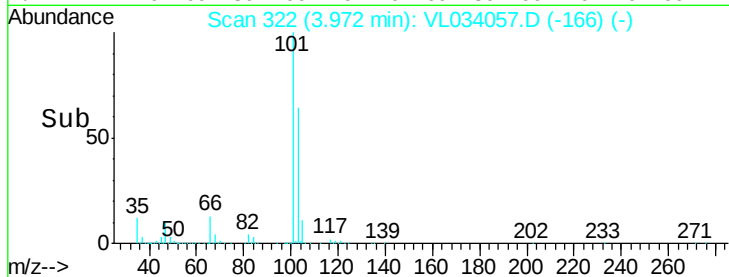
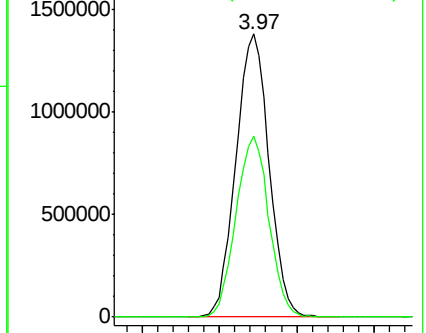
Manual Integrations
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8/2/2019 9:37:42 AM



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: 9.205 ppbv

RT: 4.52 min Scan# 491

Delta R.T. -0.00 min

Lab File: VL034057.D

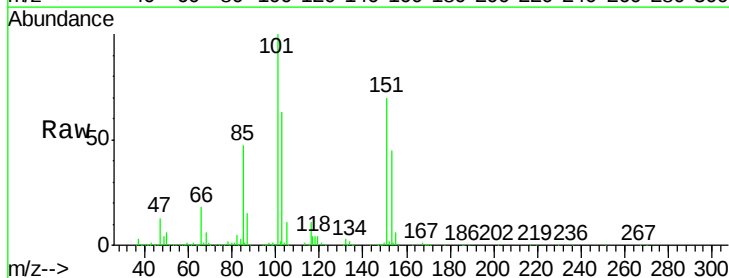
Acq: 30 Jul 2019 9:20

Tgt Ion:101 Resp: 1465904

Ion Ratio Lower Upper

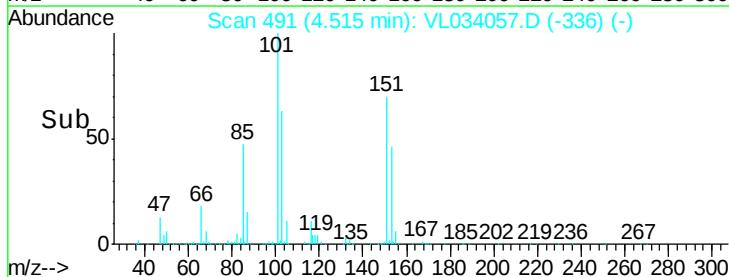
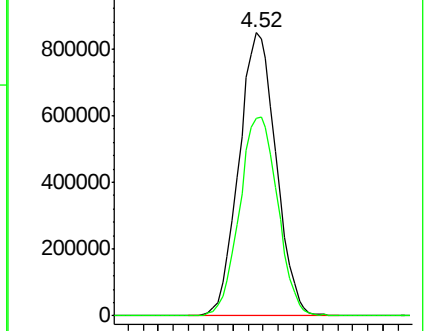
101 100

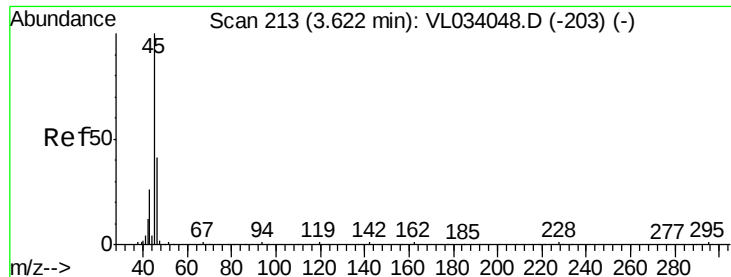
151 72.0 57.3 85.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





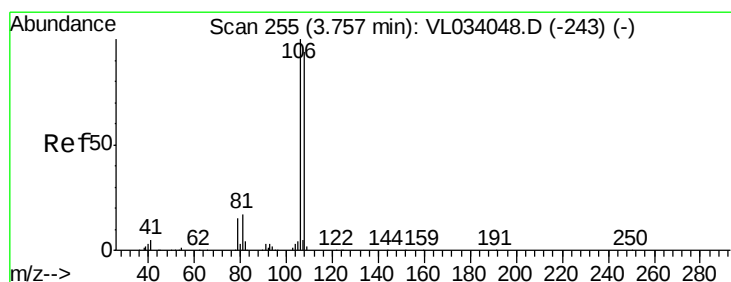
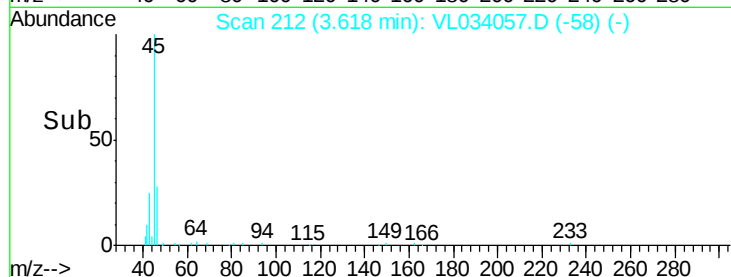
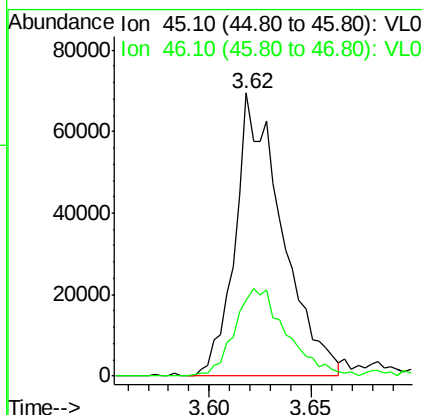
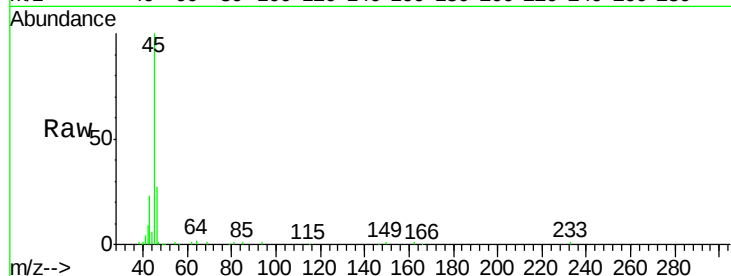
#13
Ethanol
Concen: 6.048 ppbv m
RT: 3.62 min Scan# 212
Delta R.T. -0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Instrument :
MSVOA_L
ClientSampleId :
VL0730ABS01

Tot Ion: 45 Resp: 110564
Ion Ratio Lower Upper
45 100
46 34.4 15.6 62.2

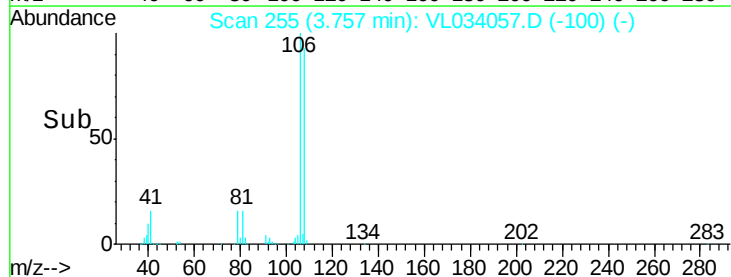
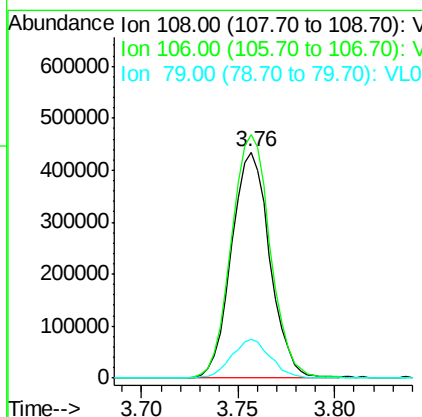
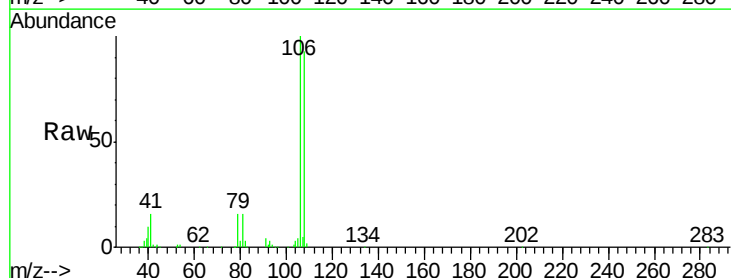
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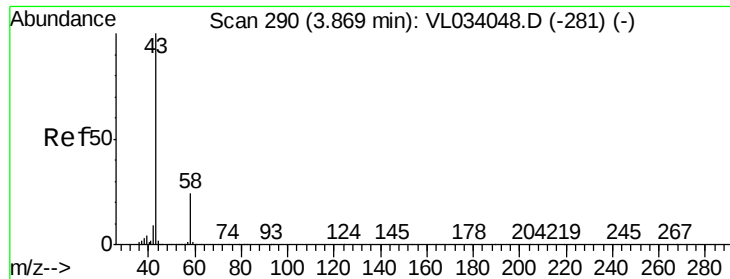
MMdadoda
8/2/2019 9:37:42 AM



#14
Bromoethene
Concen: 8.860 ppbv
RT: 3.76 min Scan# 255
Delta R.T. -0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Tgt Ion: 108 Resp: 595830
Ion Ratio Lower Upper
108 100
106 110.6 86.2 129.2
79 17.5 13.7 20.5





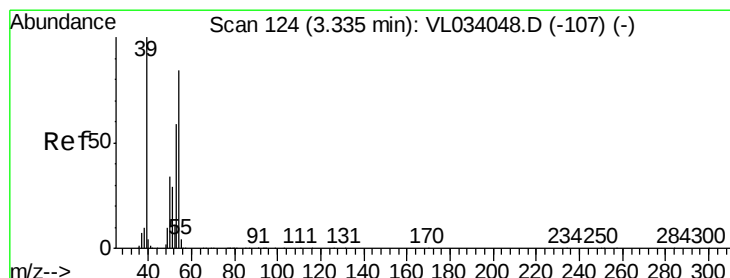
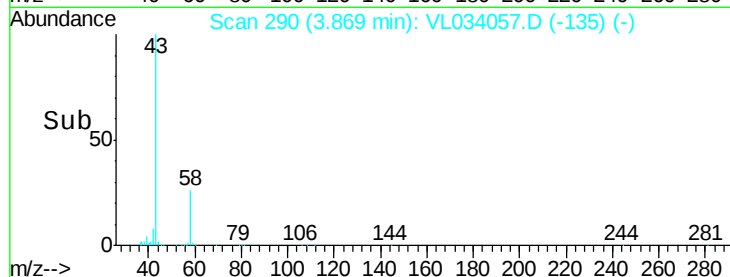
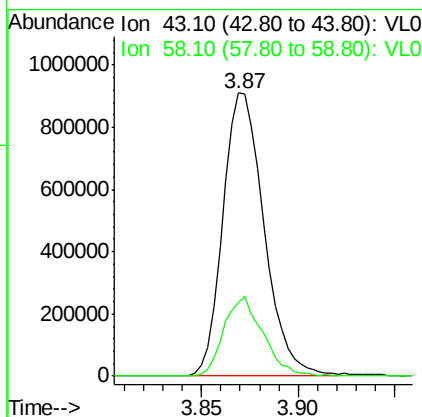
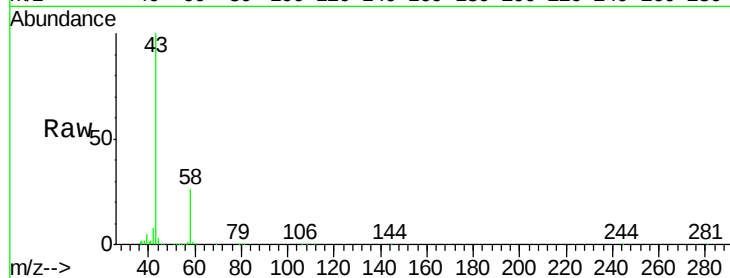
#15
Acetone
Concen: 7.948 ppbv
RT: 3.87 min Scan# 290
Delta R.T. -0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Instrument :
MSVOA_L
ClientSampleId :
VL0730ABS01

Tot Ion: 43 Resp: 1339261
Ion Ratio Lower Upper
43 100
58 27.1 21.6 32.4

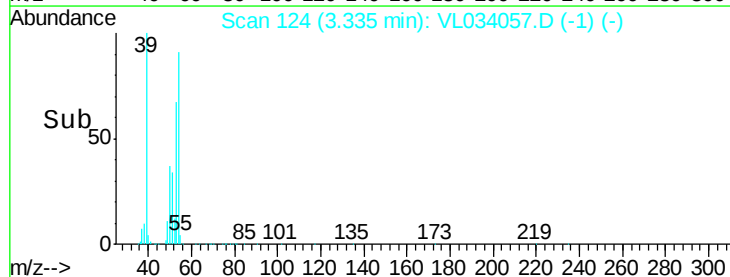
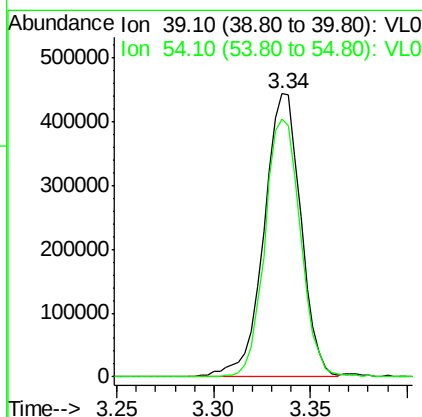
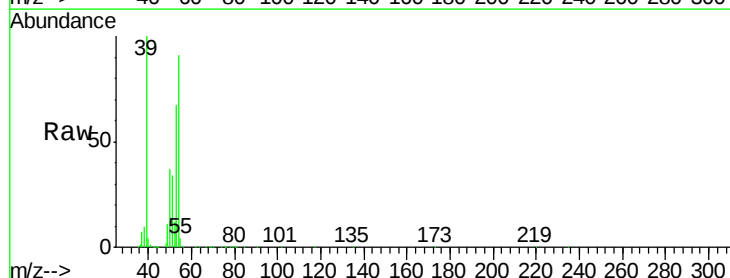
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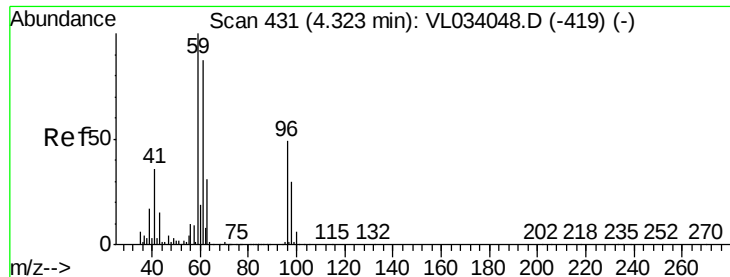
MMDadoda
8/2/2019 9:37:42 AM



#16
1,3-Butadiene
Concen: 8.976 ppbv
RT: 3.34 min Scan# 124
Delta R.T. -0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Tgt Ion: 39 Resp: 587284
Ion Ratio Lower Upper
39 100
54 88.1 68.9 103.3





#17

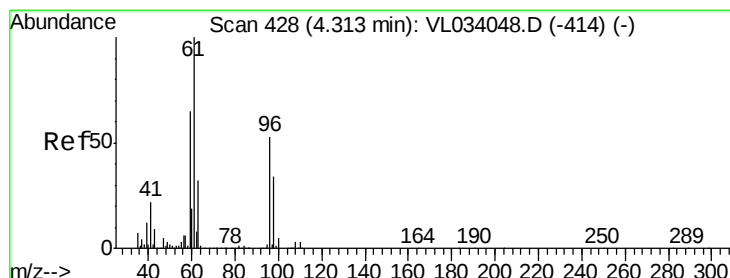
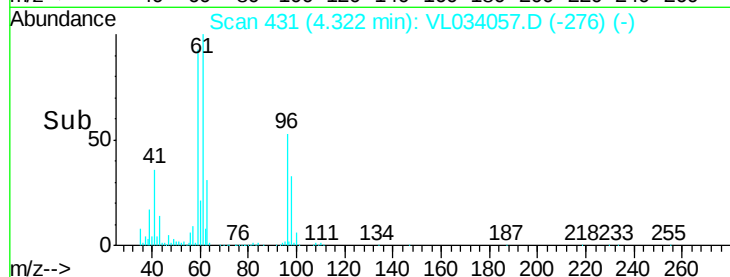
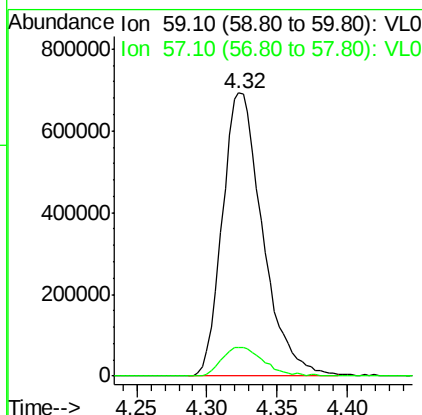
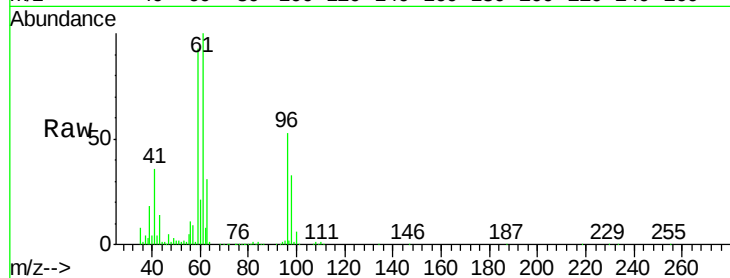
tert-Butyl alcohol
Concen: 9.940 ppbv
RT: 4.32 min Scan# 431
Delta R.T. -0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Instrument :
MSVOA_L
ClientSampleId :
VL0730ABS01

Tot Ion: 59 Resp: 1377111
Ion Ratio Lower Upper
59 100
57 10.7 8.2 12.4

Manual Integrations
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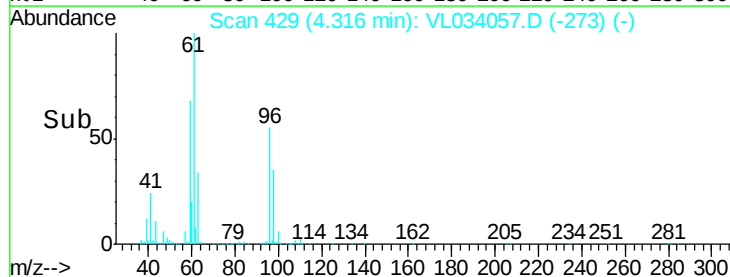
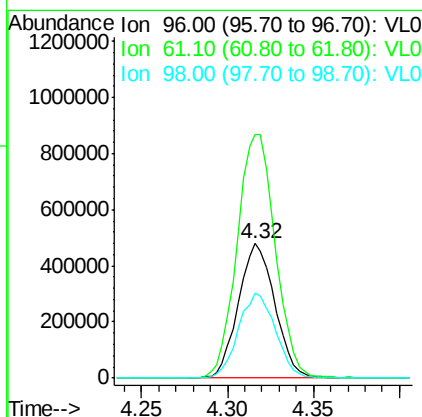
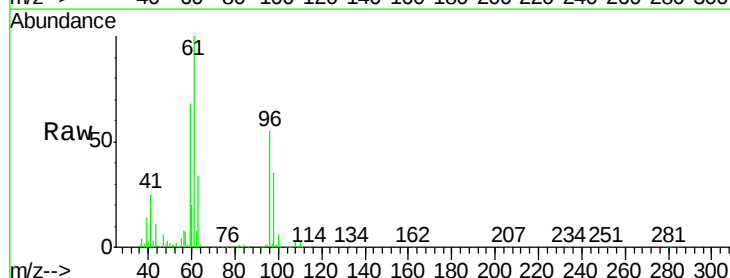
MMdadoda
8/2/2019 9:37:42 AM

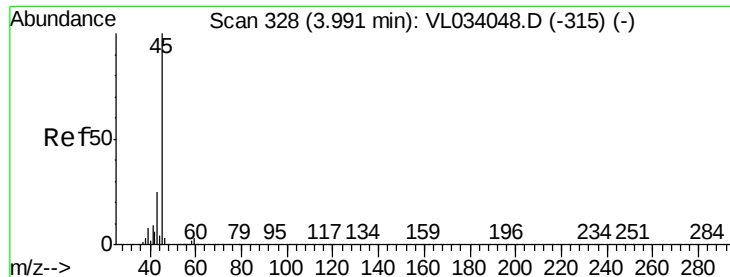


#18

1,1-Dichloroethene
Concen: 9.805 ppbv
RT: 4.32 min Scan# 429
Delta R.T. 0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Tgt Ion: 96 Resp: 707363
Ion Ratio Lower Upper
96 100
61 180.9 151.5 227.3
98 62.7 52.2 78.2





#19

Isopropyl Alcohol

Concen: 8.450 ppbv

RT: 3.99 min Scan# 329

Delta R.T. 0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

VL0730ABS01

Tot Ion: 45 Resp: 972356

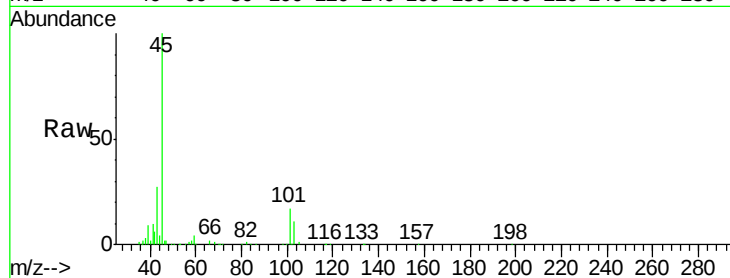
Ion Ratio Lower Upper

45 100

58 2.1 1.8 2.6

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.99

600000

500000

400000

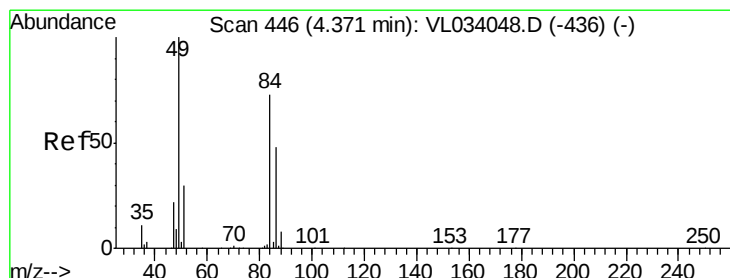
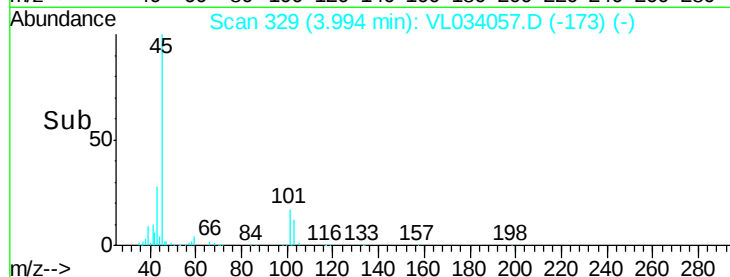
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 9.263 ppbv

RT: 4.37 min Scan# 447

Delta R.T. 0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Tgt Ion: 84 Resp: 596963

Ion Ratio Lower Upper

84 100

49 135.0 109.6 164.4

51 41.9 33.4 50.2

86 60.2 52.6 78.8

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

800000

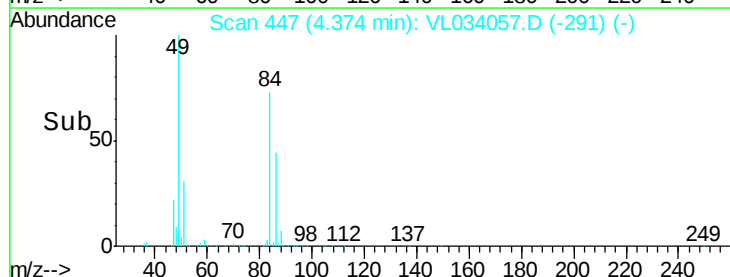
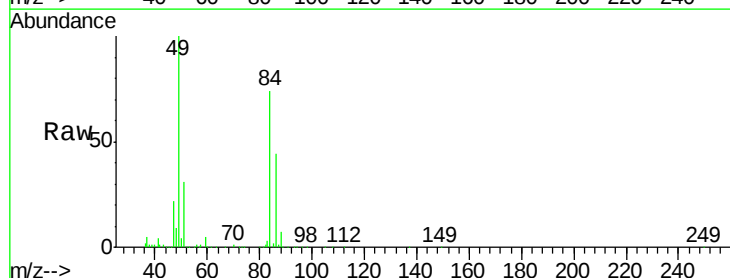
600000

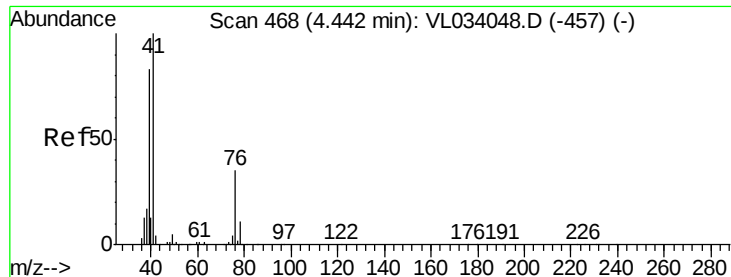
400000

200000

0

Time-->





#21

Allvl Chloride

Concen: 9.466 ppbv

RT: 4.44 min Scan# 468

Delta R.T. -0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

VL0730ABS01

Tot Ion: 41 Resp: 1006608

Ion Ratio Lower Upper

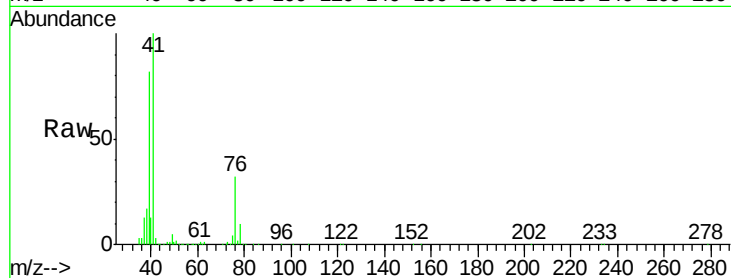
41 100

76 33.0 26.1 39.1

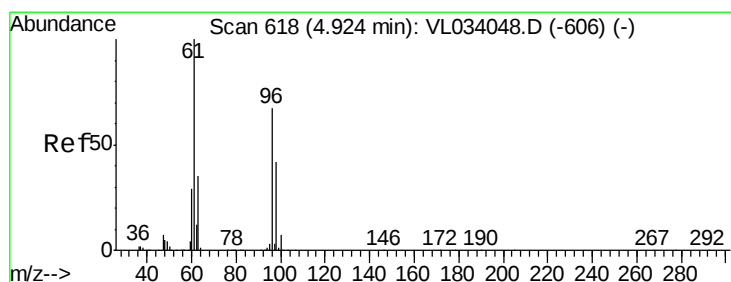
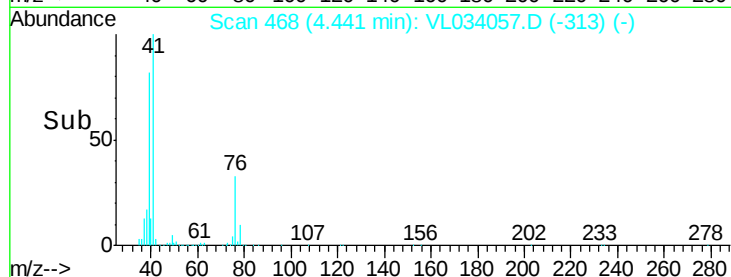
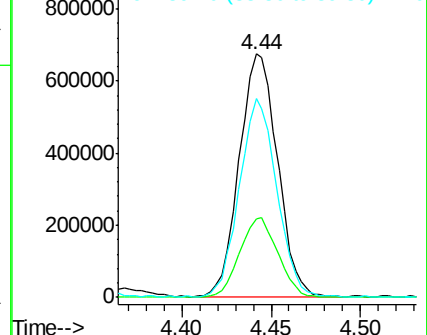
39 80.2 65.0 97.6

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Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 9.015 ppbv

RT: 4.92 min Scan# 618

Delta R.T. -0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

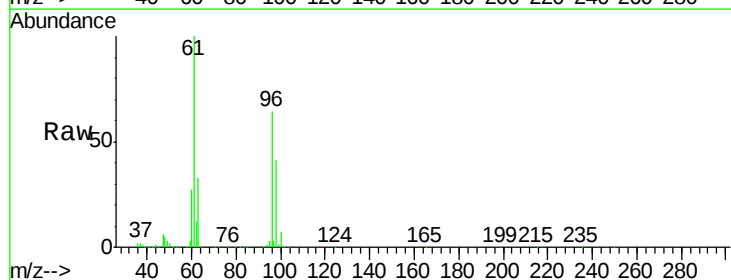
Tgt Ion: 96 Resp: 673867

Ion Ratio Lower Upper

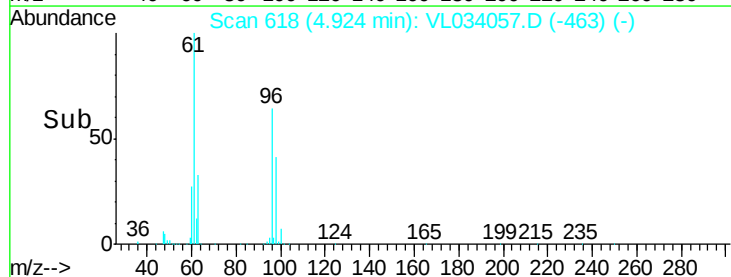
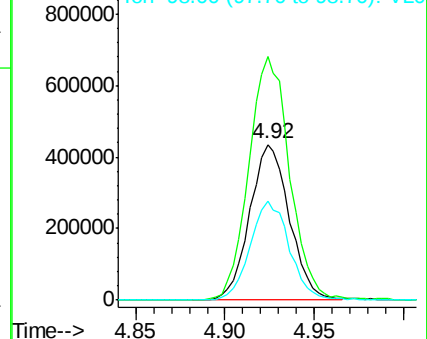
96 100

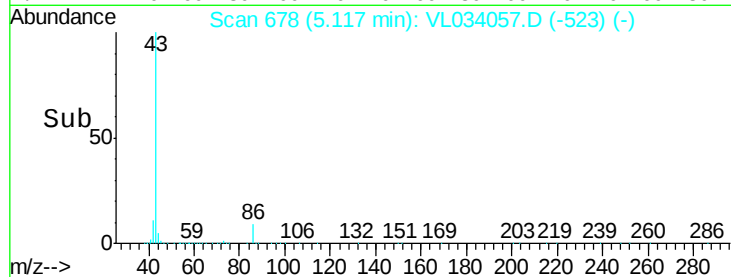
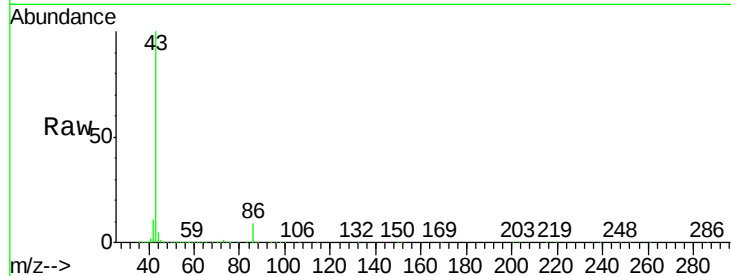
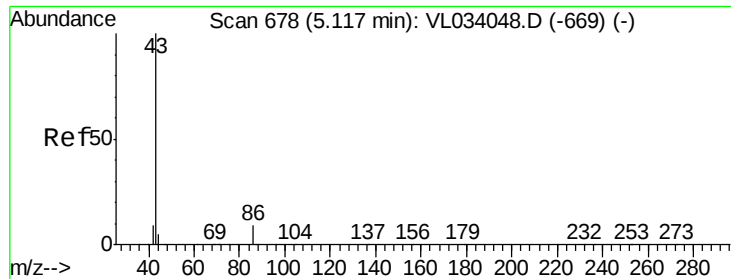
61 156.5 118.6 177.8

98 63.7 49.7 74.5



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 9.560 ppbv

RT: 5.12 min Scan# 678

Delta R.T. -0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Tot Ion: 43 Resp: 1724981

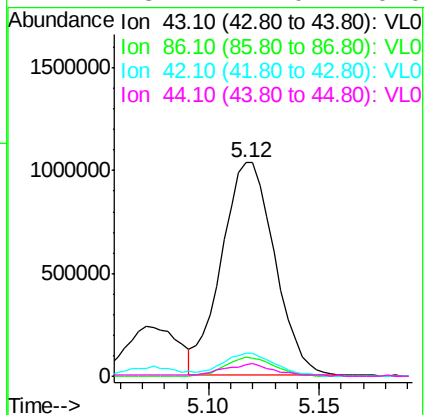
Ion Ratio Lower Upper

43 100

86 9.0 6.5 9.7

42 10.8 8.3 12.5

44 5.1 4.0 6.0



Instrument :

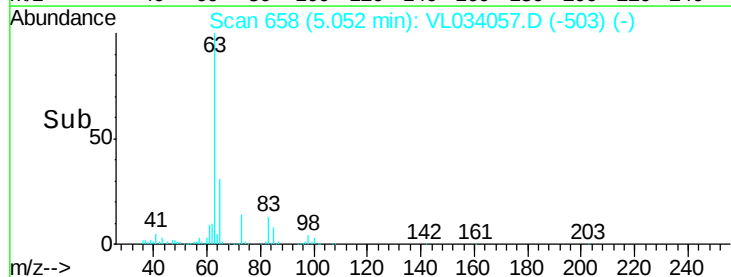
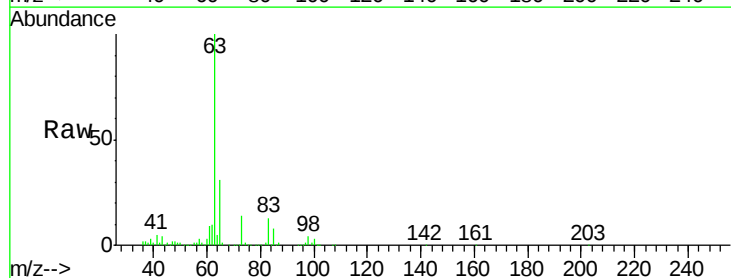
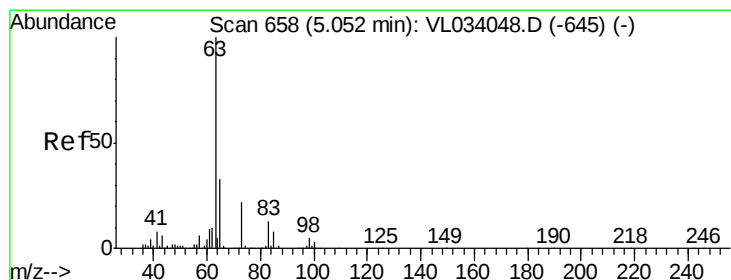
MSVOA_L

ClientSampleId :

VL0730ABS01

Manual Integrations
APPROVED

MMdadoda
8/2/2019 9:37:42 AM



#24

1,1-Dichloroethane

Concen: 8.719 ppbv

RT: 5.05 min Scan# 658

Delta R.T. -0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

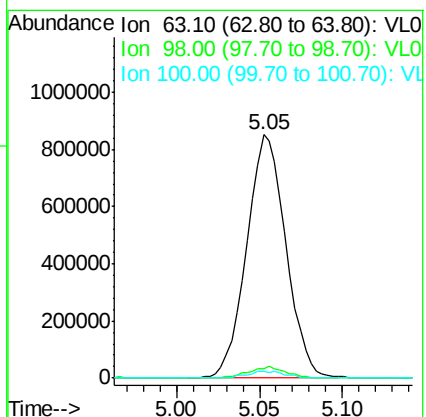
Tgt Ion: 63 Resp: 1397644

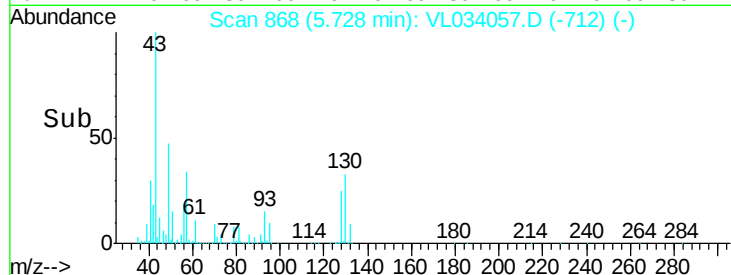
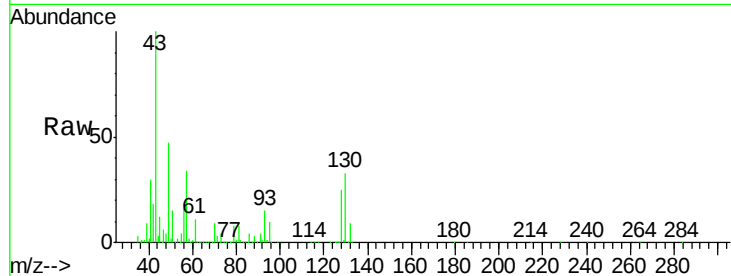
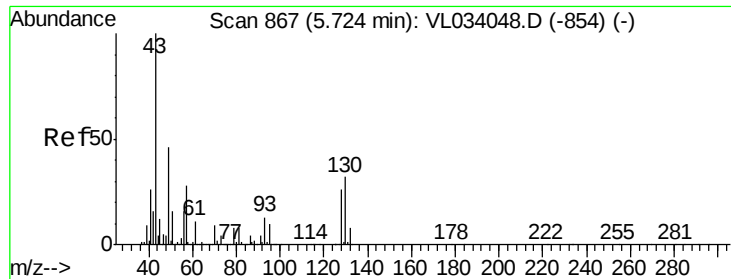
Ion Ratio Lower Upper

63 100

98 3.7 2.4 7.2

100 2.7 1.3 3.9





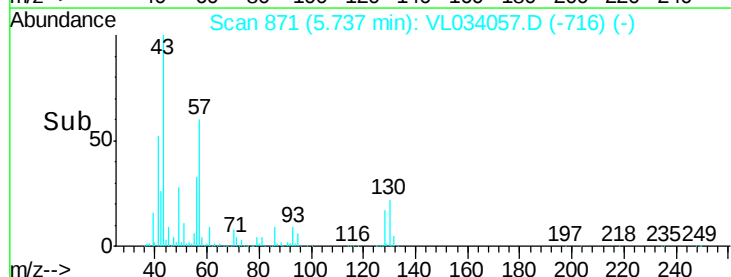
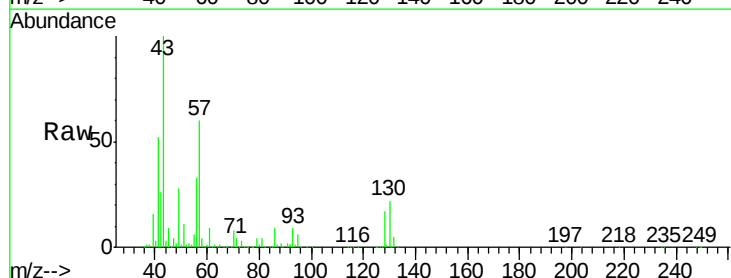
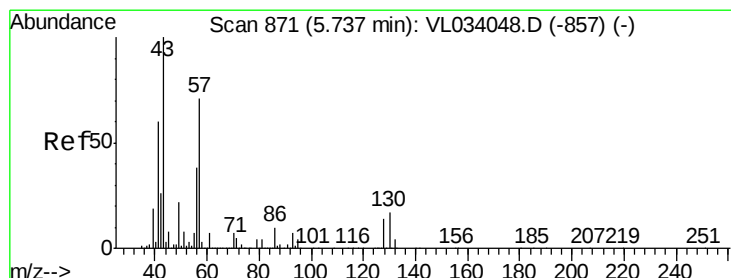
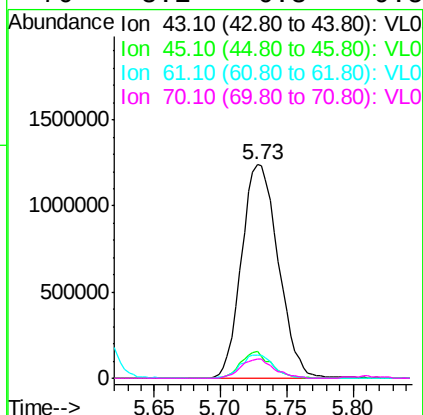
#25
Ethyl Acetate
Concen: 9.533 ppbv
RT: 5.73 min Scan# 868
Delta R.T. 0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Tot Ion	43	Resp	2387997
Ion	Ratio	Lower	Upper
43	100		
45	10.3	8.1	12.1
61	10.3	8.1	12.1
70	8.1	6.3	9.5

Instrument :
MSVOA_L
ClientSampleId :
VL0730ABS01

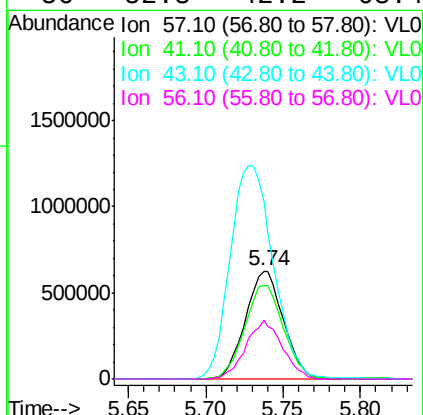
Manual Integrations
APPROVED

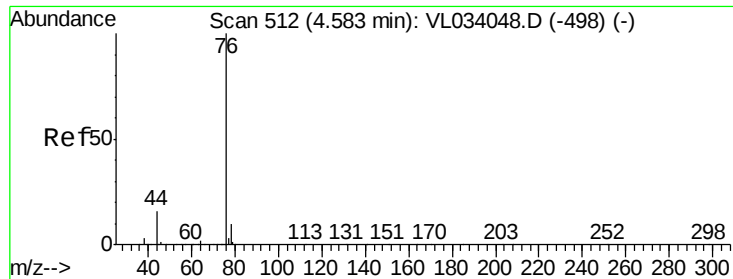
MMdadoda
8/2/2019 9:37:42 AM



#26
Hexane
Concen: 9.444 ppbv
RT: 5.74 min Scan# 871
Delta R.T. -0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Tgt Ion	57	Resp	1069984
Ion	Ratio	Lower	Upper
57	100		
41	89.2	69.0	103.6
43	224.4	176.6	264.8
56	52.3	42.2	63.4





#27

Carbon Disulfide

Concen: 10.457 ppbv

RT: 4.58 min Scan# 512

Delta R.T. -0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

VL0730ABS01

Tot Ion: 76 Resp: 1844945

Ion Ratio Lower Upper

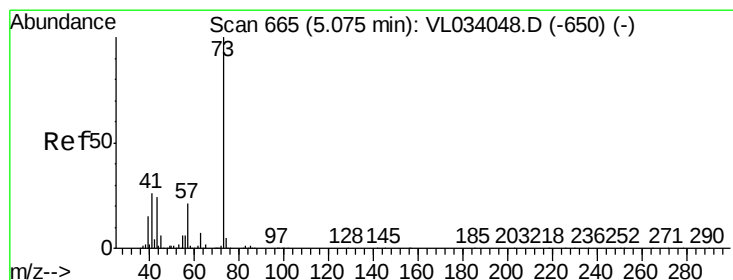
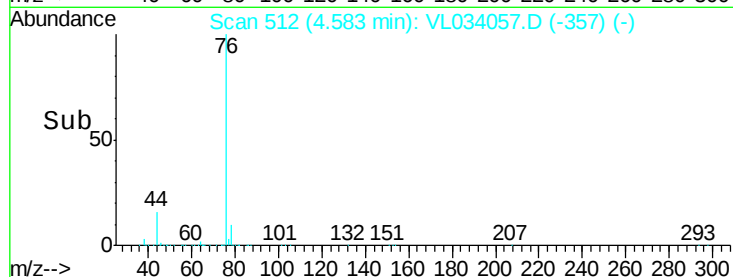
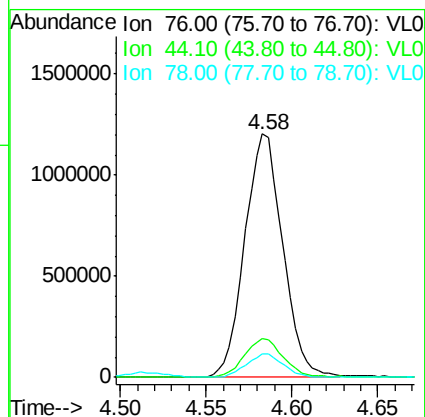
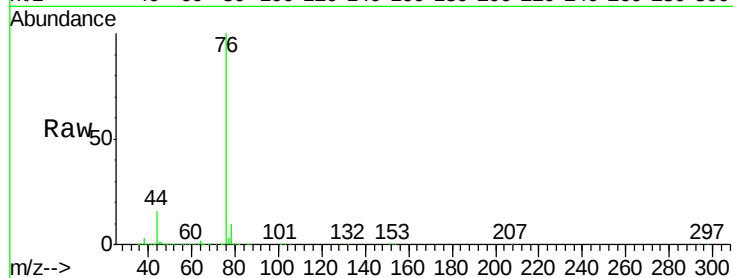
76 100

44 15.9 13.0 19.4

78 9.4 7.7 11.5

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MMdadoda
8/2/2019 9:37:42 AM



#28

Methyl tert-Butyl Ether

Concen: 9.158 ppbv

RT: 5.07 min Scan# 665

Delta R.T. -0.00 min

Lab File: VL034057.D

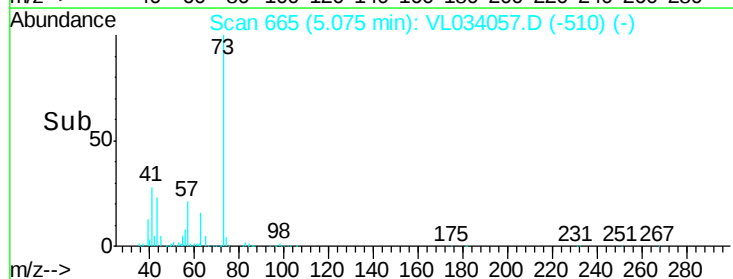
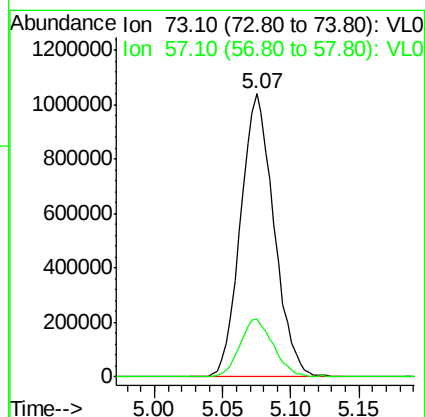
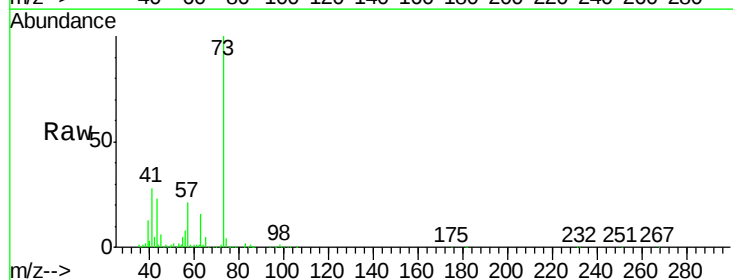
Acq: 30 Jul 2019 9:20

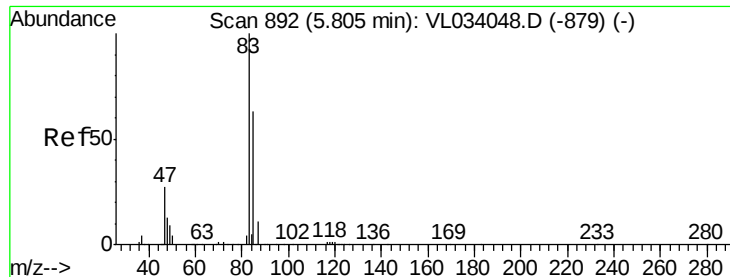
Tgt Ion: 73 Resp: 1766040

Ion Ratio Lower Upper

73 100

57 20.6 17.2 25.8





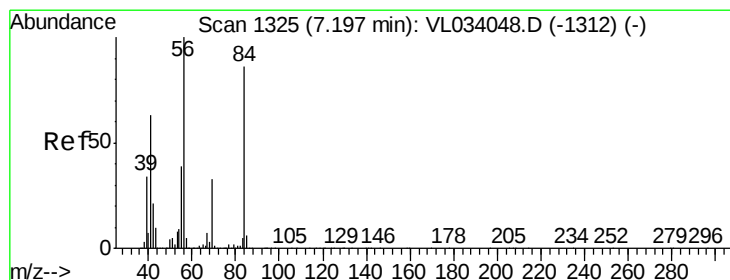
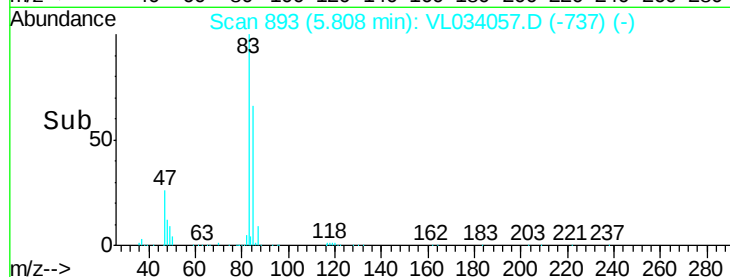
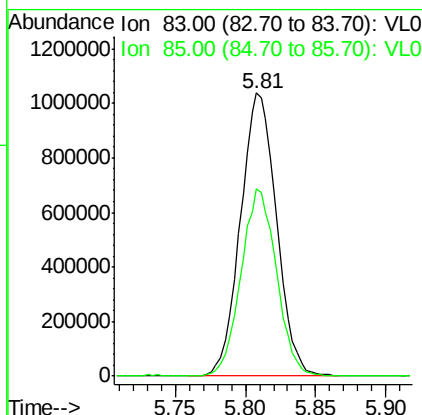
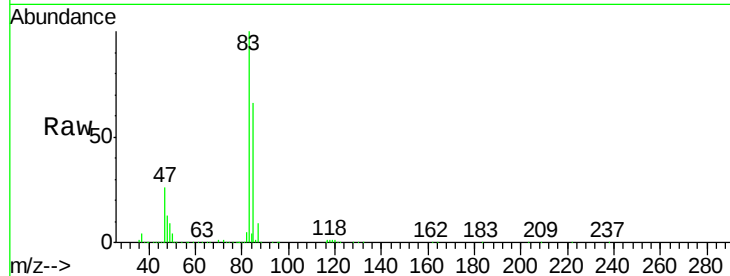
#29
Chloroform
Concen: 9.002 ppbv
RT: 5.81 min Scan# 893
Delta R.T. 0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Instrument :
MSVOA_L
ClientSampleId :
VL0730ABS01

Tot Ion: 83 Resp: 1862912
Ion Ratio Lower Upper
83 100
85 66.3 50.2 75.4

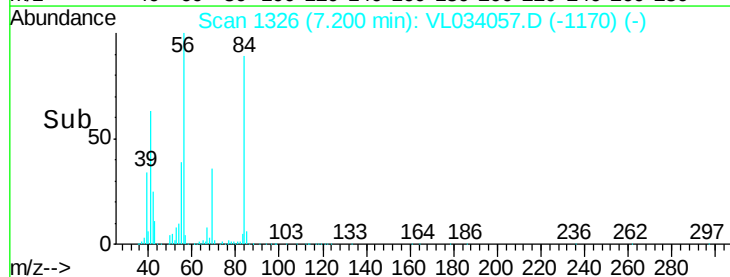
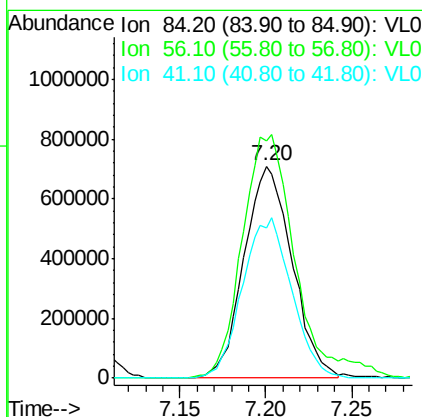
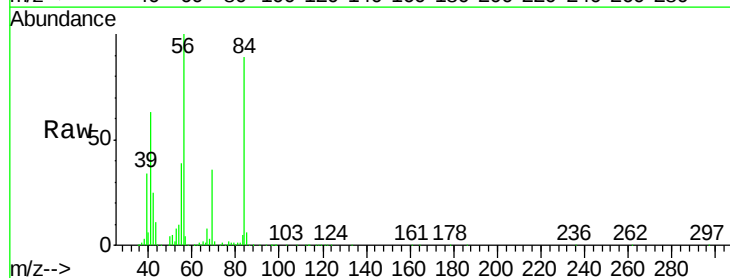
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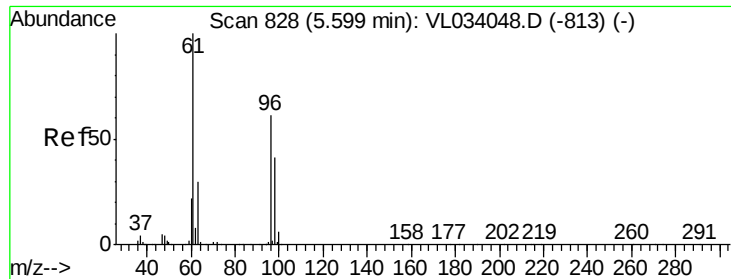
MMdadoda
8/2/2019 9:37:42 AM



#30
Cyclohexane
Concen: 11.881 ppbv
RT: 7.20 min Scan# 1326
Delta R.T. 0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Tgt Ion: 84 Resp: 1367728
Ion Ratio Lower Upper
84 100
56 128.4 101.7 152.5
41 78.1 59.4 89.0





#31

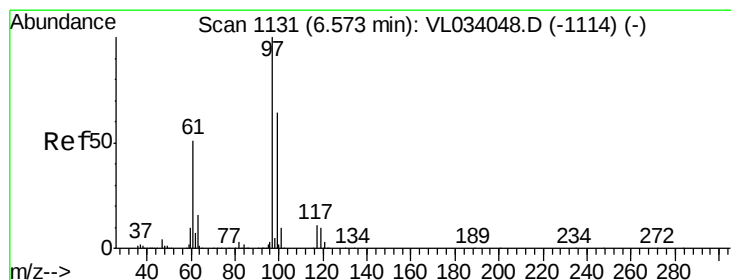
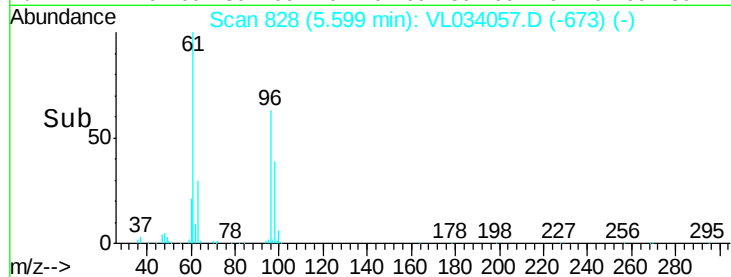
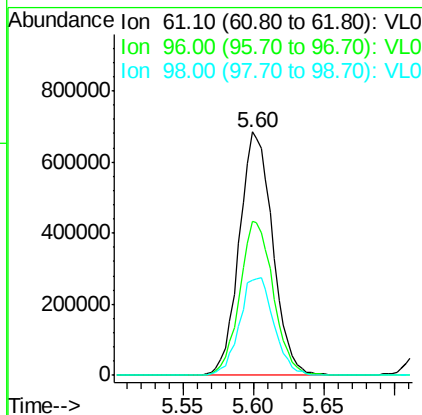
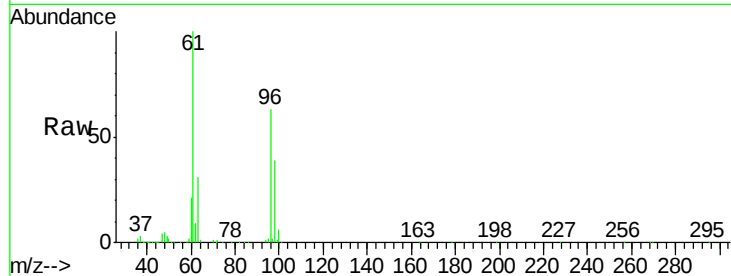
cis-1,2-Dichloroethene
Concen: 10.316 ppbv
RT: 5.60 min Scan# 828
Delta R.T. -0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Instrument :
MSVOA_L
ClientSampleId :
VL0730ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	63.2	49.1	73.7
98	39.0	32.5	48.7

Manual Integrations
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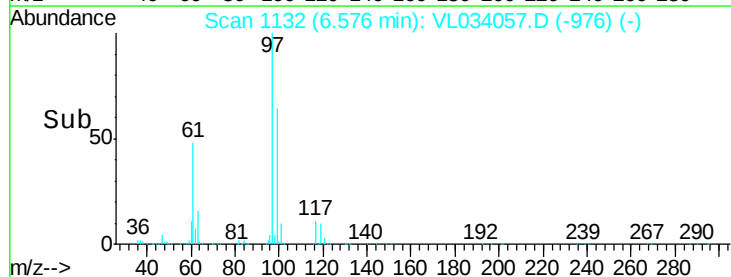
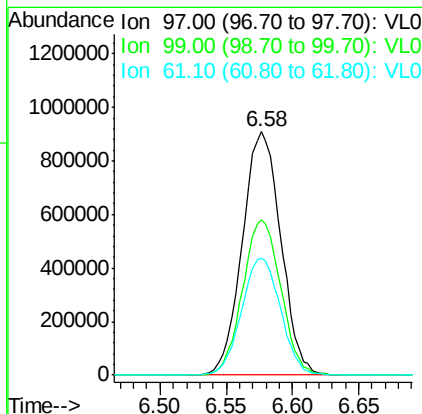
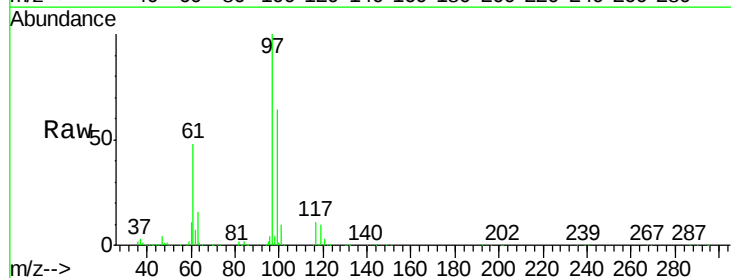
MMdadoda
8/2/2019 9:37:42 AM

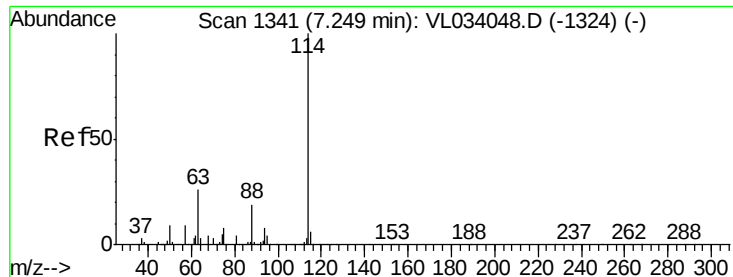


#32

1,1,1-Trichloroethane
Concen: 8.458 ppbv
RT: 6.58 min Scan# 1132
Delta R.T. 0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.4	51.0	76.6
61	48.7	39.5	59.3





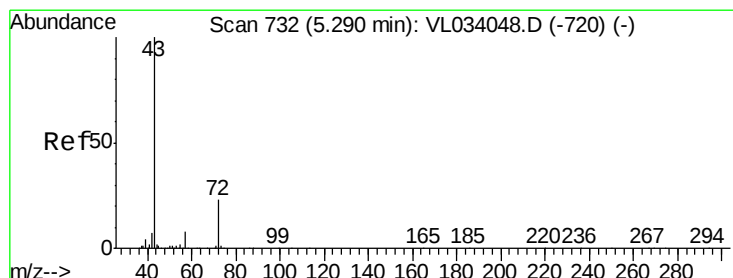
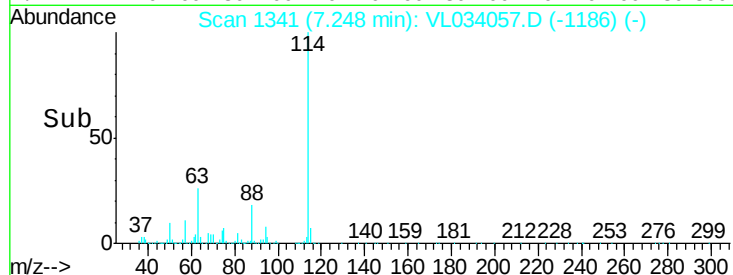
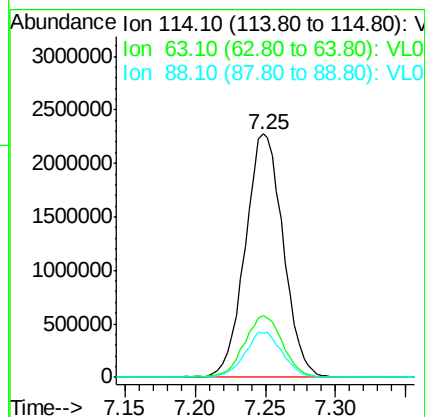
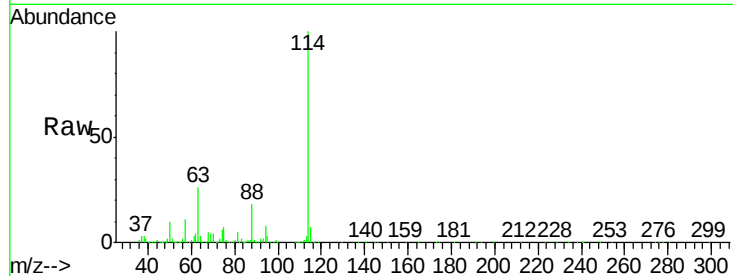
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.25 min Scan# 1341
 Delta R.T. -0.00 min
 Lab File: VL034057.D
 Acq: 30 Jul 2019 9:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0730ABS01

Tot Ion:114 Resp: 4281645
 Ion Ratio Lower Upper
 114 100
 63 26.0 21.0 31.6
 88 18.2 14.7 22.1

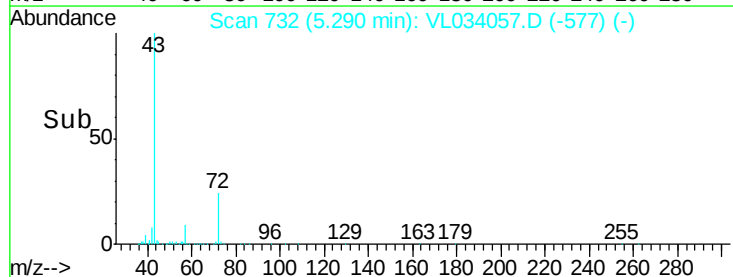
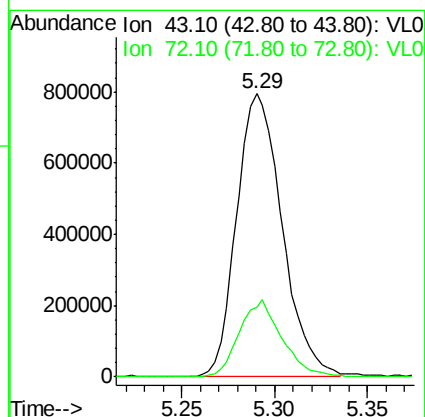
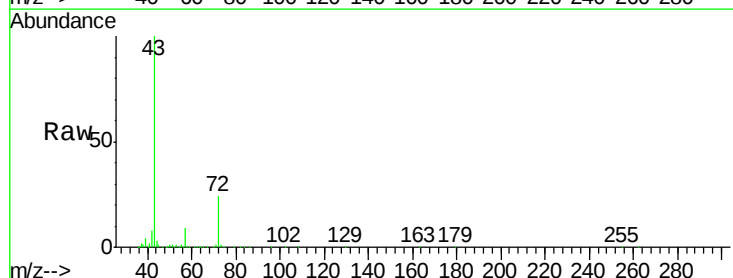
Manual Integrations
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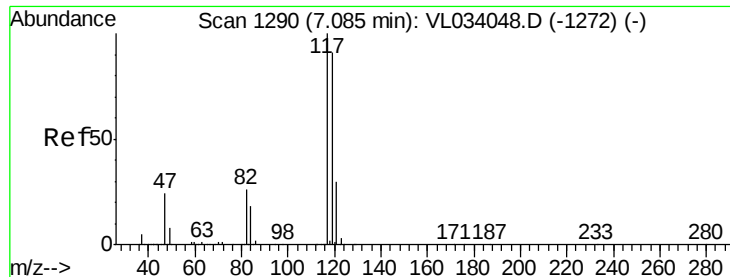
MMDadoda
 8/2/2019 9:37:42 AM



#34
 2-Butanone
 Concen: 7.679 ppbv
 RT: 5.29 min Scan# 732
 Delta R.T. -0.00 min
 Lab File: VL034057.D
 Acq: 30 Jul 2019 9:20

Tgt Ion: 43 Resp: 1353132
 Ion Ratio Lower Upper
 43 100
 72 25.6 20.2 30.4





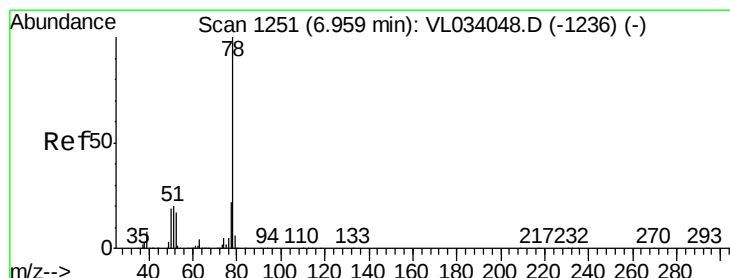
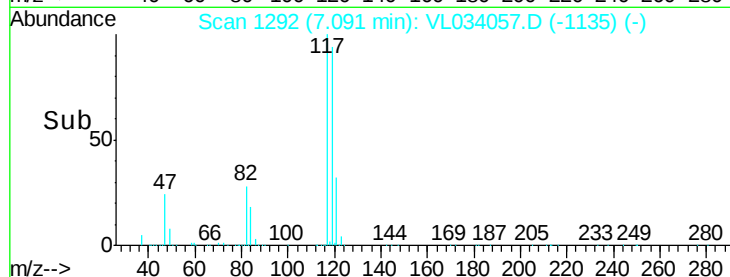
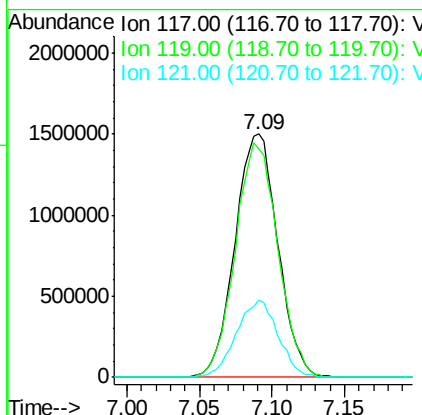
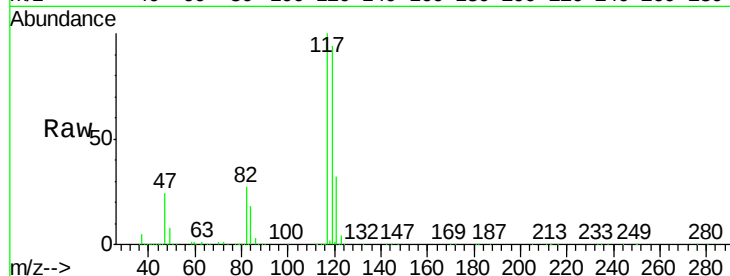
#35
Carbon Tetrachloride
Concen: 10.183 ppbv
RT: 7.09 min Scan# 1292
Delta R.T. 0.01 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Instrument :
MSVOA_L
ClientSampleId :
VL0730ABS01

Tot Ion	Ratio	Lower	Upper
117	100		
119	93.9	73.2	109.8
121	31.8	24.0	36.0

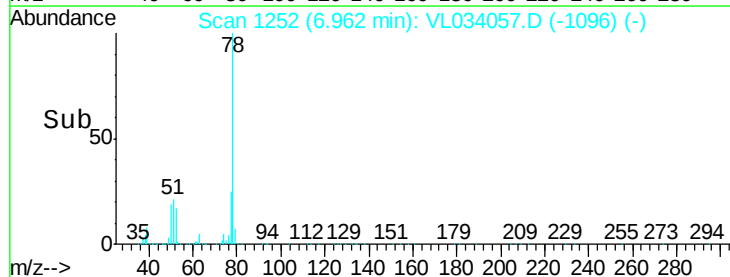
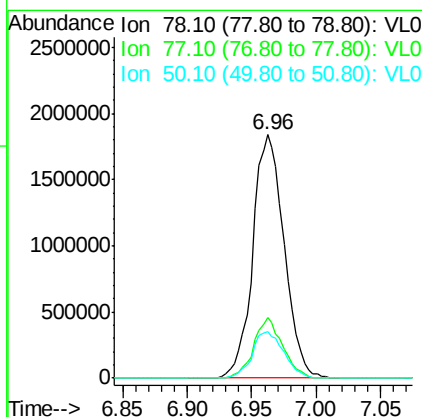
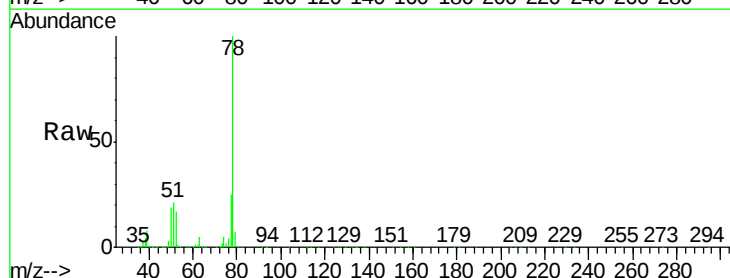
Manual Integrations
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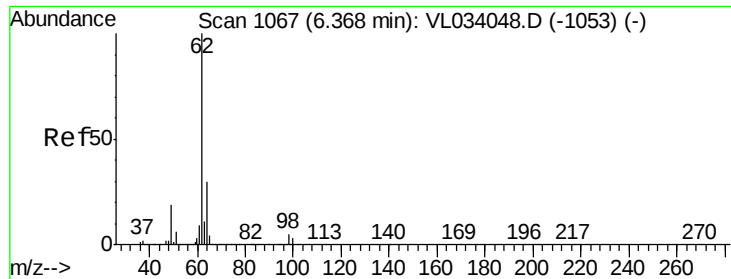
MMDadoda
8/2/2019 9:37:42 AM



#36
Benzene
Concen: 10.943 ppbv
RT: 6.96 min Scan# 1252
Delta R.T. 0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.1	17.9	26.9
50	19.1	14.9	22.3





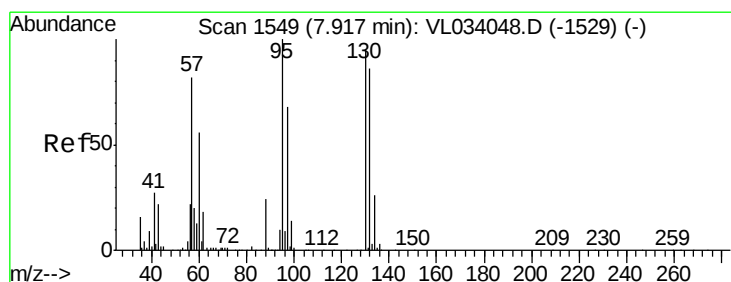
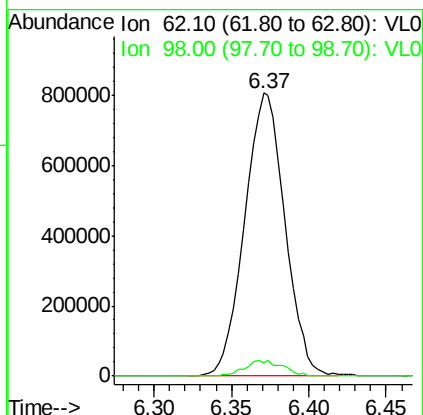
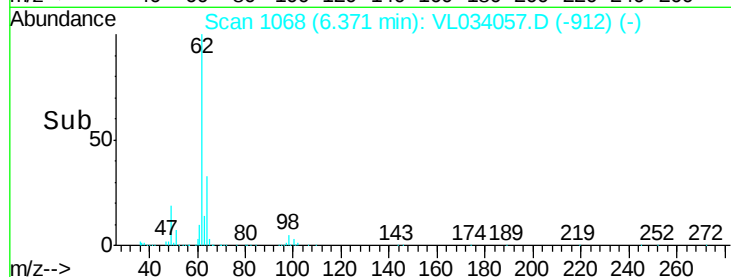
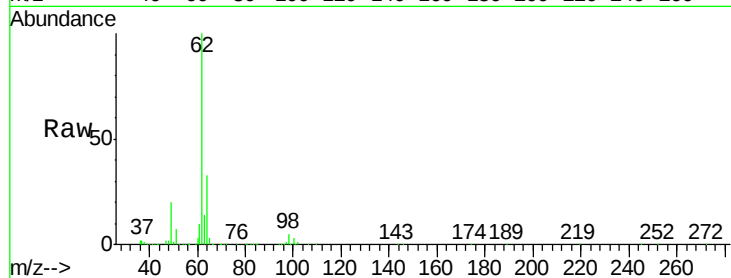
#37
 1,2-Dichloroethane
 Concen: 7.457 ppbv
 RT: 6.37 min Scan# 1068
 Delta R.T. 0.00 min
 Lab File: VL034057.D
 Acq: 30 Jul 2019 9:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0730ABS01

Tot Ion: 62 Resp: 1460438
 Ion Ratio Lower Upper
 62 100
 98 5.4 4.2 6.2

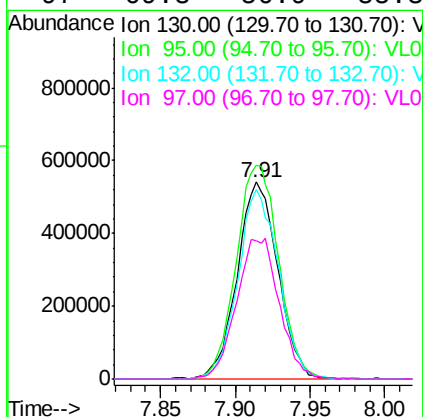
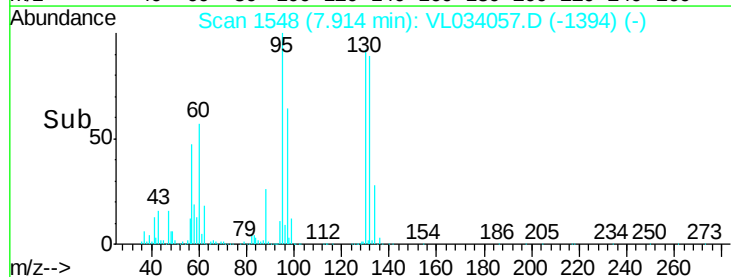
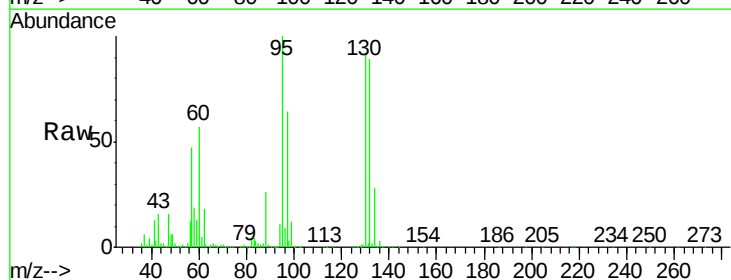
Manual Integrations
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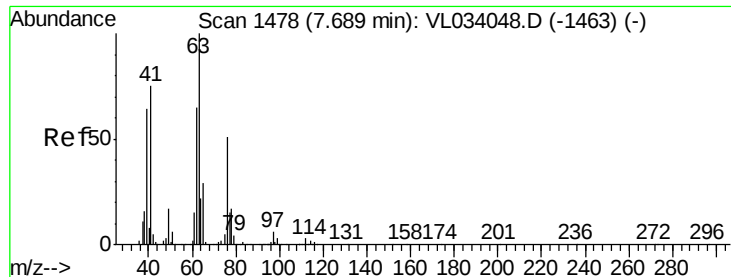
MMdadoda
 8/2/2019 9:37:42 AM



#38
 Trichloroethene
 Concen: 8.547 ppbv
 RT: 7.91 min Scan# 1548
 Delta R.T. -0.00 min
 Lab File: VL034057.D
 Acq: 30 Jul 2019 9:20

Tgt Ion: 130 Resp: 1020857
 Ion Ratio Lower Upper
 130 100
 95 108.6 84.1 126.1
 132 96.2 72.7 109.1
 97 69.8 56.9 85.3





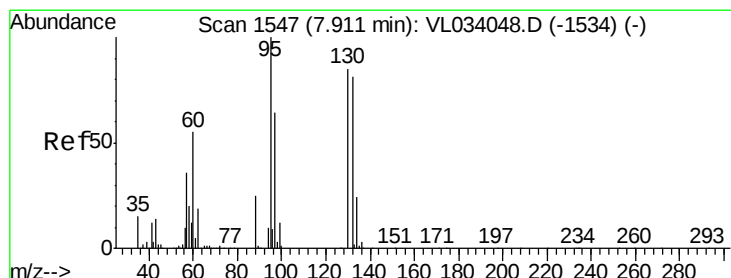
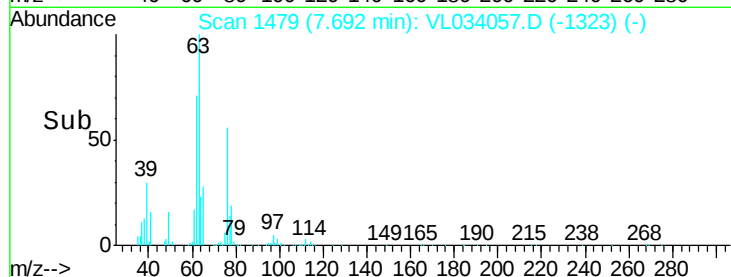
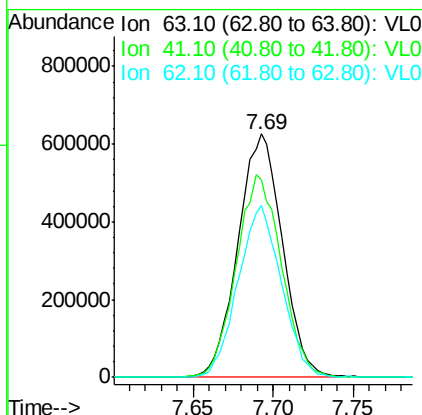
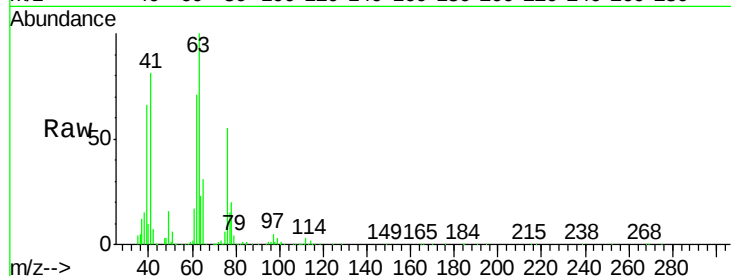
#39
 1,2-Dichloropropane
 Concen: 10.215 ppbv
 RT: 7.69 min Scan# 1479
 Delta R.T. 0.00 min
 Lab File: VL034057.D
 Acq: 30 Jul 2019 9:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0730ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	81.0	59.8	89.8
62	70.6	52.2	78.2

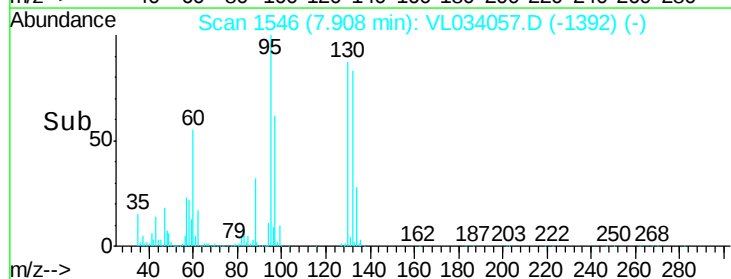
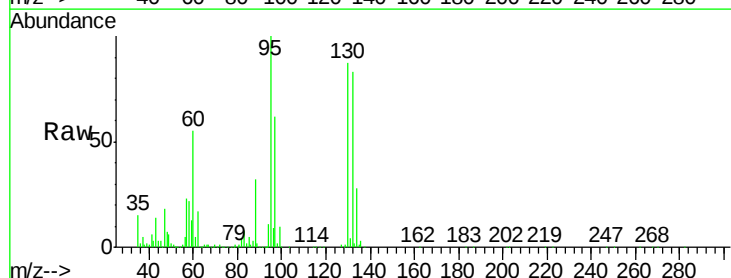
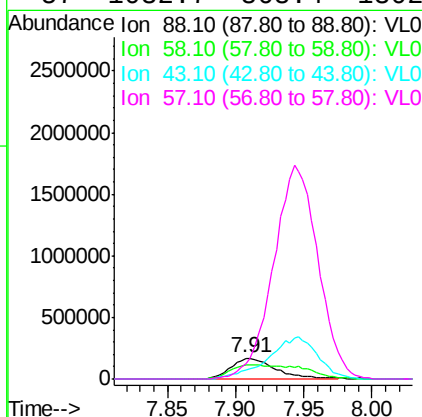
Manual Integrations
 APPROVED

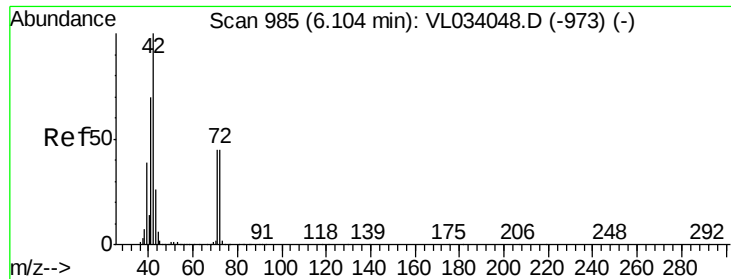
MMDadoda
 8/2/2019 9:37:42 AM



#40
 1,4-Dioxane
 Concen: 8.388 ppbv
 RT: 7.91 min Scan# 1546
 Delta R.T. -0.00 min
 Lab File: VL034057.D
 Acq: 30 Jul 2019 9:20

Tgt Ion	Ratio	Lower	Upper
88	100		
58	115.6	99.6	149.4
43	226.4	189.2	283.8
57	1032.7	868.4	1302.6





#41

Tetrahydrofuran

Concen: 8.389 ppbv

RT: 6.10 min Scan# 985

Delta R.T. -0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

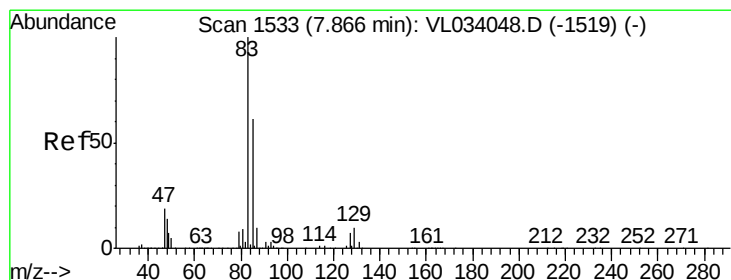
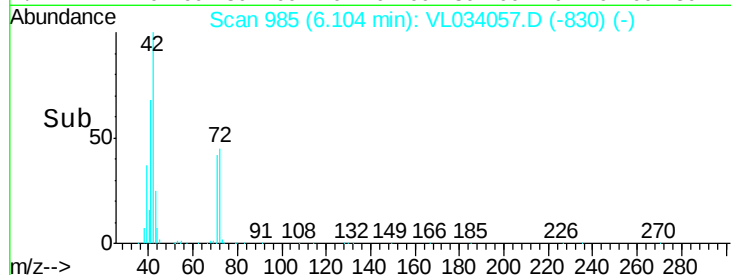
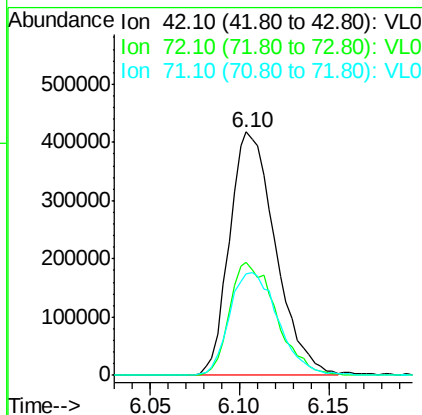
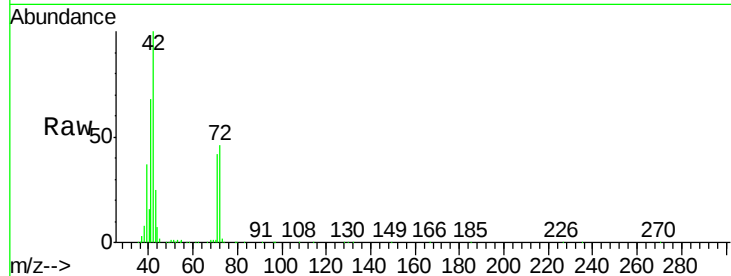
ClientSampleId :

VL0730ABS01

Tot Ion:	42	Resp:	750911
Ion Ratio		Lower	Upper
42	100		
72	47.0	36.9	55.3
71	44.8	36.6	54.8

Manual Integrations
APPROVED

MMdadoda
8/2/2019 9:37:42 AM



#42

Bromodichloromethane

Concen: 8.204 ppbv

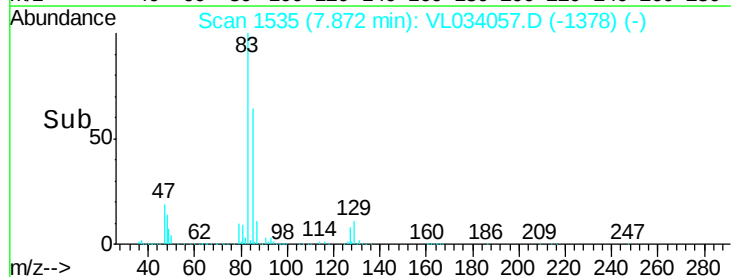
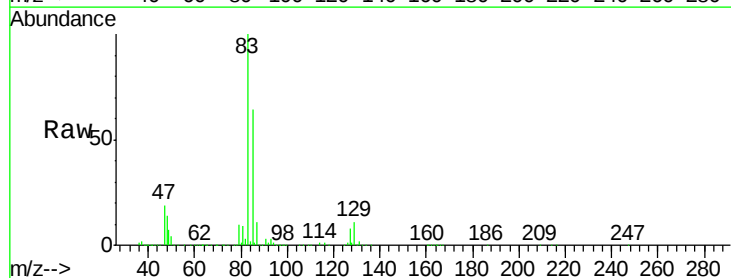
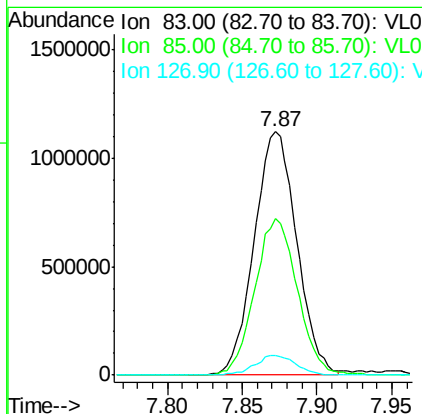
RT: 7.87 min Scan# 1535

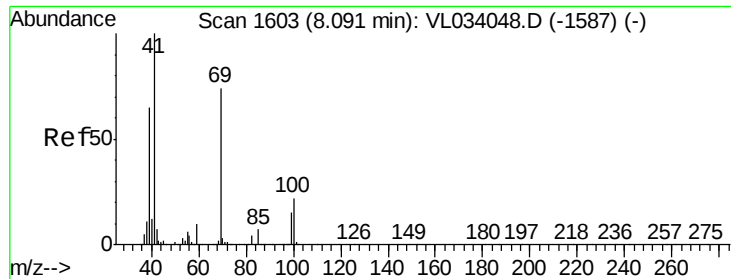
Delta R.T. 0.01 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Tgt Ion:	83	Resp:	2221668
Ion Ratio		Lower	Upper
83	100		
85	64.4	48.6	73.0
127	8.0	5.5	8.3





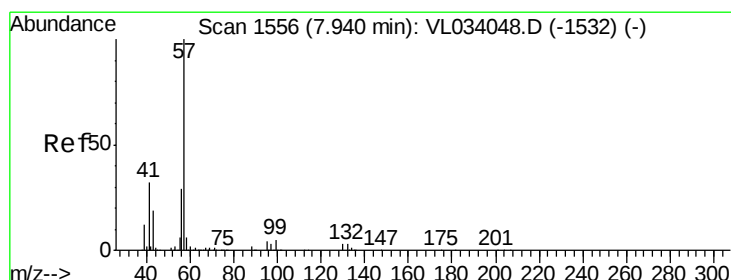
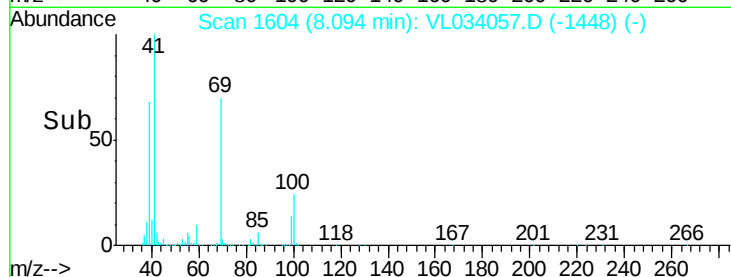
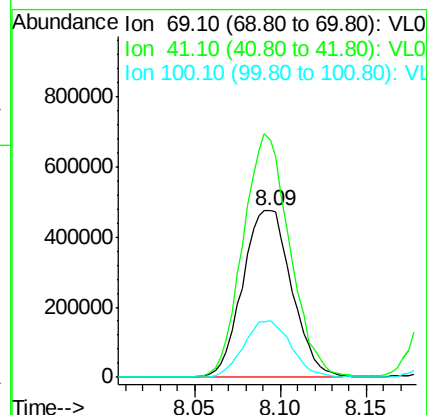
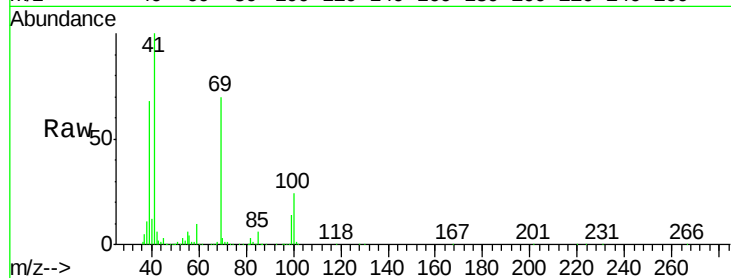
#43
Methyl Methacrylate
Concen: 9.230 ppbv
RT: 8.09 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Instrument :
MSVOA_L
ClientSampleId :
VL0730ABS01

Tot Ion	Ratio	Lower	Upper
69	100		
41	139.9	112.8	169.2
100	33.1	26.1	39.1

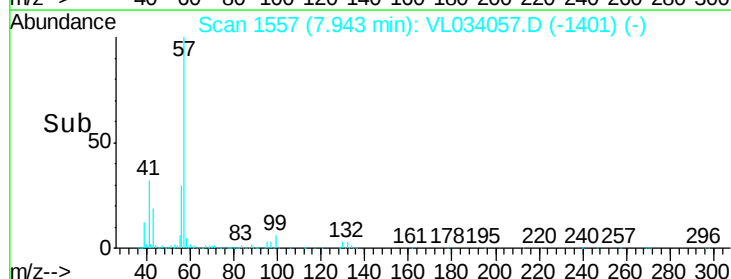
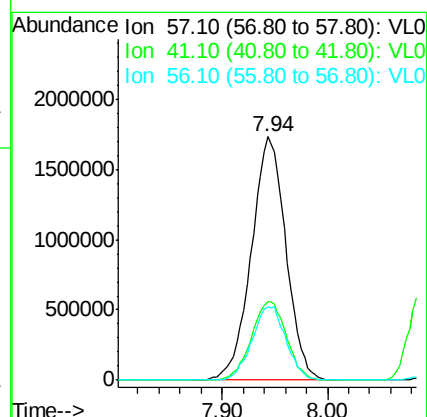
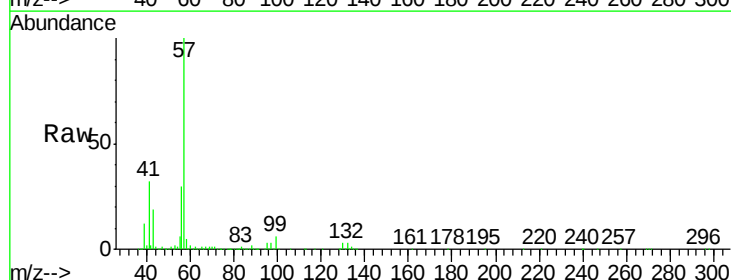
Manual Integrations
APPROVED

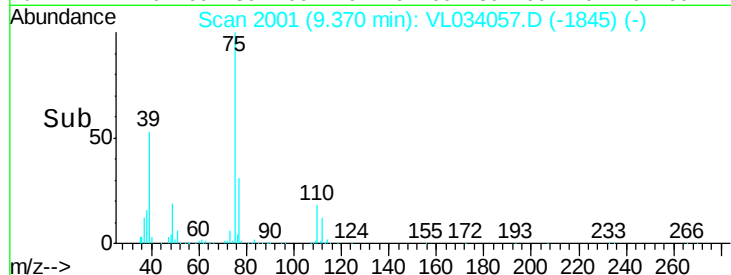
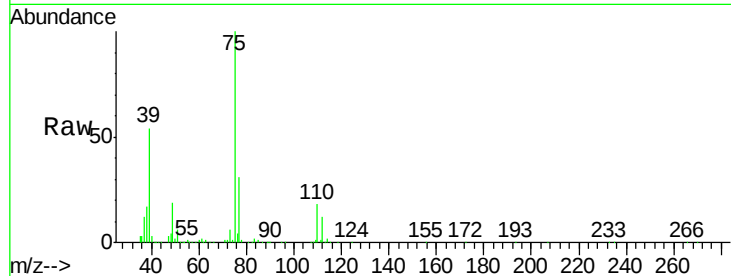
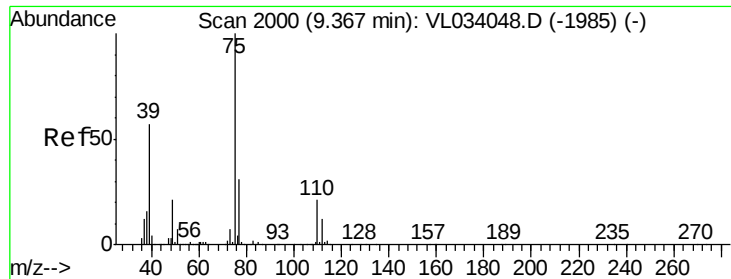
MMDadoda
8/2/2019 9:37:42 AM



#44
2,2,4-Trimethylpentane
Concen: 8.354 ppbv
RT: 7.94 min Scan# 1557
Delta R.T. 0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Tgt Ion	Ratio	Lower	Upper
57	100		
41	33.0	26.2	39.2
56	30.0	24.2	36.2





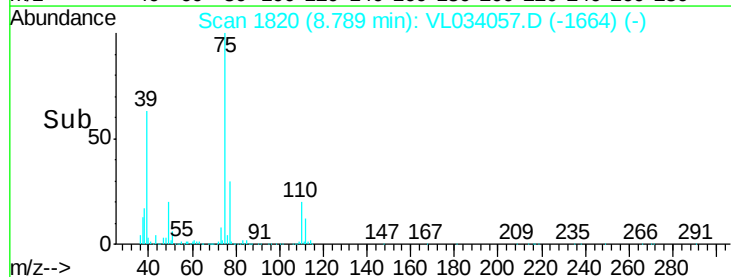
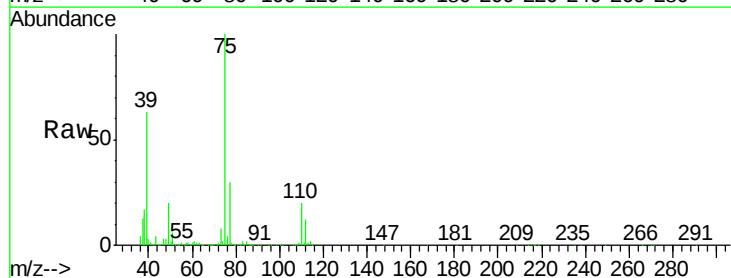
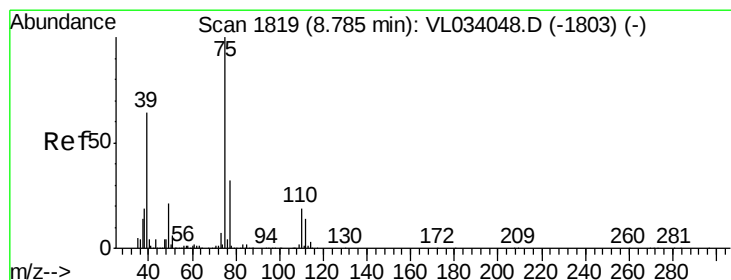
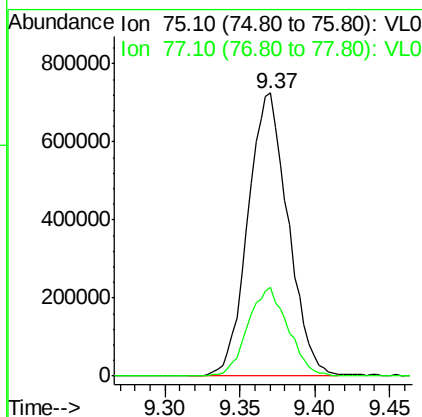
#45
t-1,3-Dichloropropene
Concen: 10.377 ppbv
RT: 9.37 min Scan# 2001
Delta R.T. 0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Tot Ion: 75 Resp: 1356364
Ion Ratio Lower Upper
75 100
77 31.3 24.6 37.0

Instrument :
MSVOA_L
ClientSampleId :
VL0730ABS01

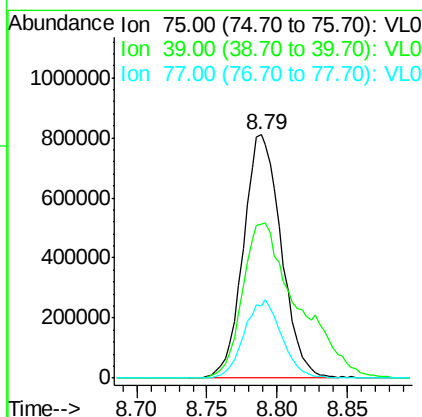
Manual Integrations
APPROVED

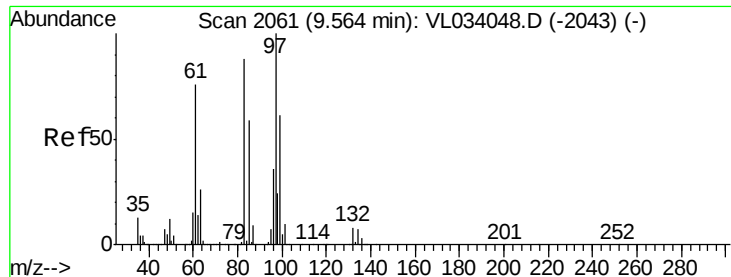
MMdadoda
8/2/2019 9:37:42 AM



#46
cis-1,3-Dichloropropene
Concen: 10.357 ppbv
RT: 8.79 min Scan# 1820
Delta R.T. 0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Tgt Ion: 75 Resp: 1521640
Ion Ratio Lower Upper
75 100
39 63.5 51.4 77.2
77 29.7 25.8 38.6





#47

1,1,2-Trichloroethane

Concen: 8.719 ppbv

RT: 9.57 min Scan# 2063

Delta R.T. 0.01 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

VL0730ABS01

Tot Ion: 97 Resp: 1049062

Ion Ratio Lower Upper

97 100

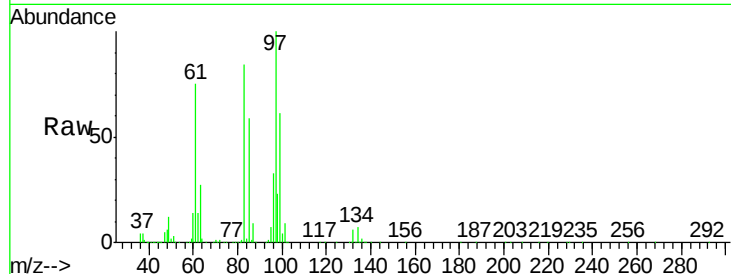
83 83.6 70.6 106.0

85 58.9 47.3 70.9

99 60.6 48.6 72.8

Manual Integrations
APPROVED

MMDadoda
8/2/2019 9:37:42 AM

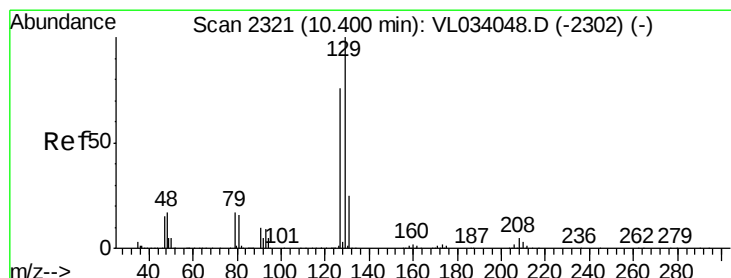
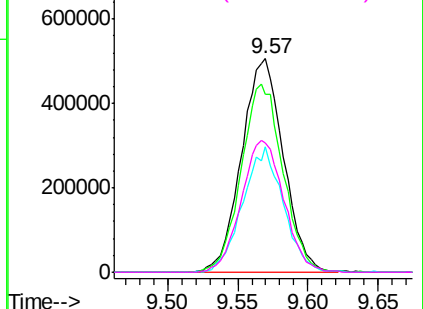
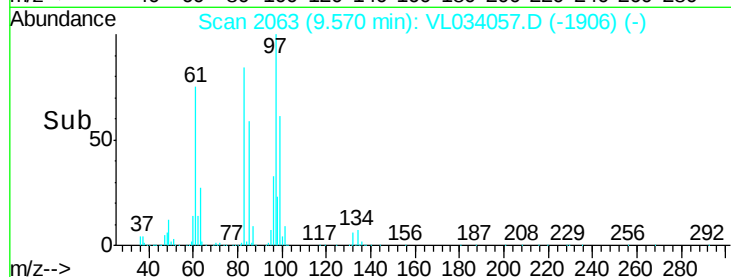


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 8.411 ppbv

RT: 10.41 min Scan# 2323

Delta R.T. 0.01 min

Lab File: VL034057.D

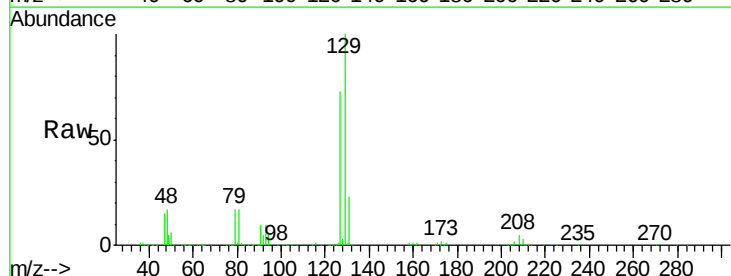
Acq: 30 Jul 2019 9:20

Tgt Ion: 129 Resp: 1931961

Ion Ratio Lower Upper

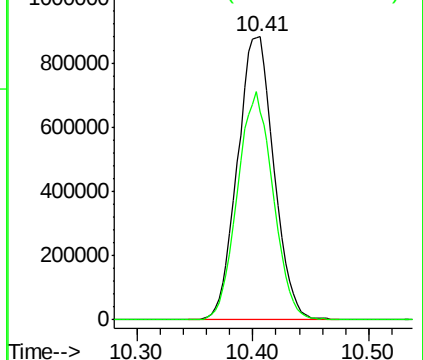
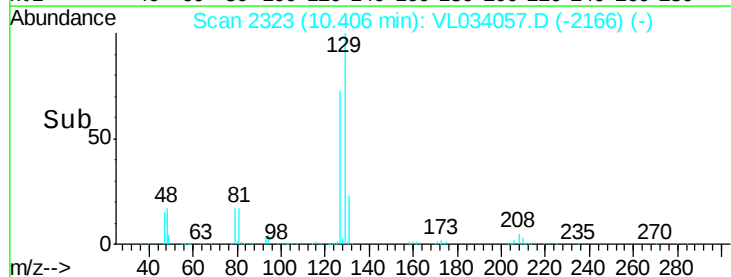
129 100

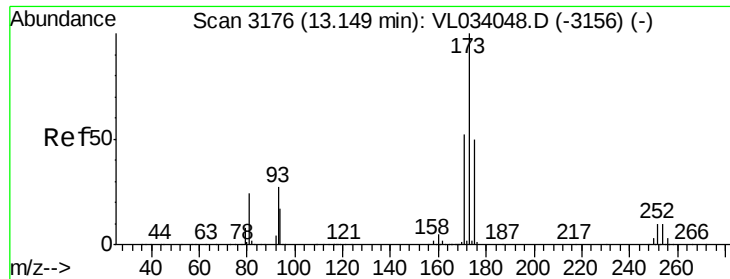
127 78.6 38.6 115.8



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





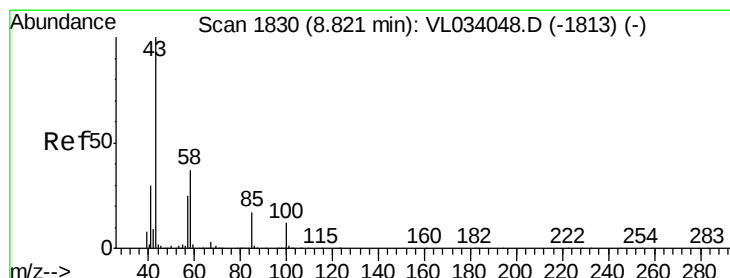
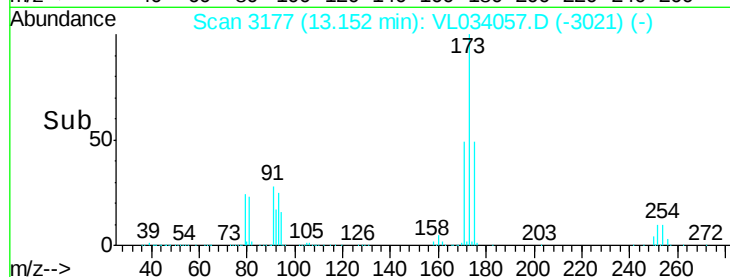
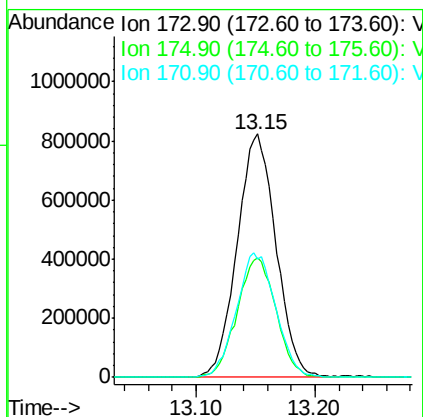
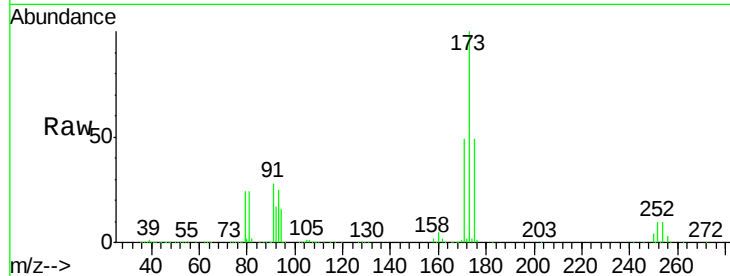
#49
Bromoform
Concen: 9.262 ppbv
RT: 13.15 min Scan# 3177
Delta R.T. 0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Instrument :
MSVOA_L
ClientSampleId :
VL0730ABS01

Tot Ion:173 Resp: 1854667
Ion Ratio Lower Upper
173 100
175 49.7 39.4 59.0
171 52.1 41.9 62.9

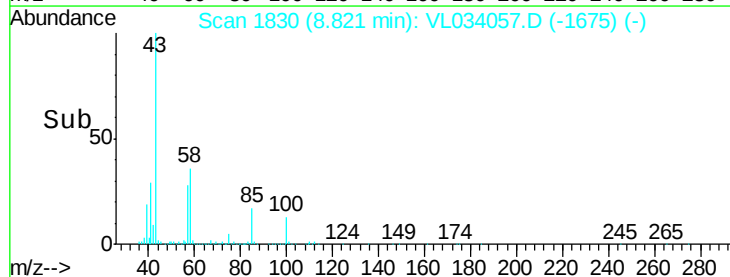
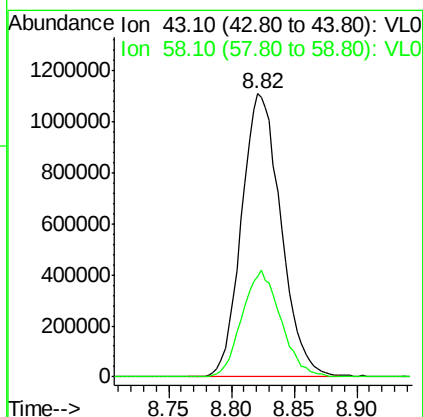
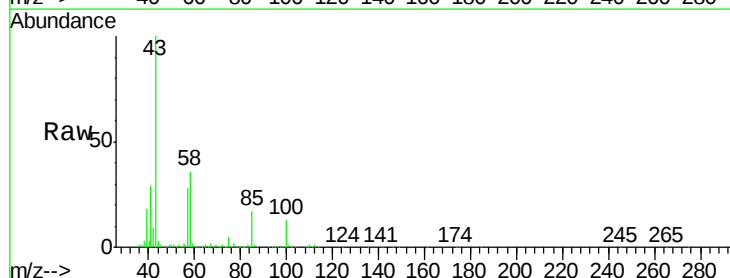
Manual Integrations
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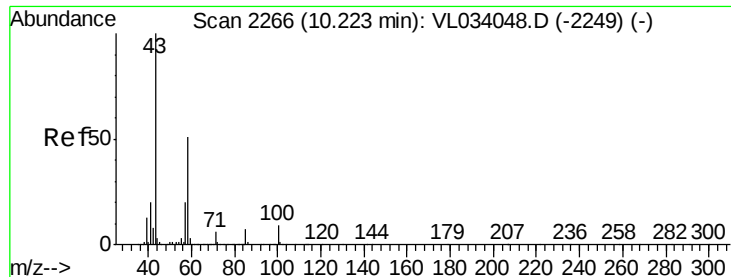
MMdadoda
8/2/2019 9:37:42 AM



#50
4-Methyl-2-Pentanone
Concen: 9.277 ppbv
RT: 8.82 min Scan# 1830
Delta R.T. -0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Tgt Ion: 43 Resp: 2426826
Ion Ratio Lower Upper
43 100
58 37.2 30.7 46.1





#51

2-Hexanone

Concen: 9.289 ppbv

RT: 10.23 min Scan# 2267

Delta R.T. 0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

VL0730ABS01

Tot Ion: 43 Resp: 2020835

Ion Ratio Lower Upper

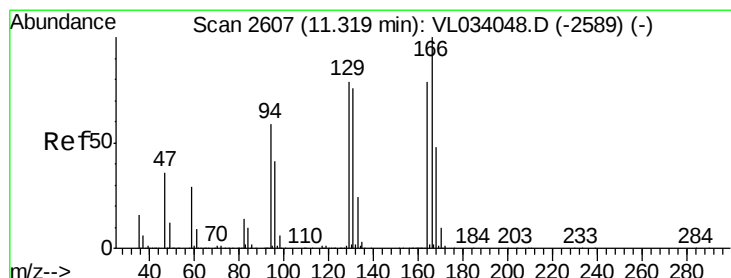
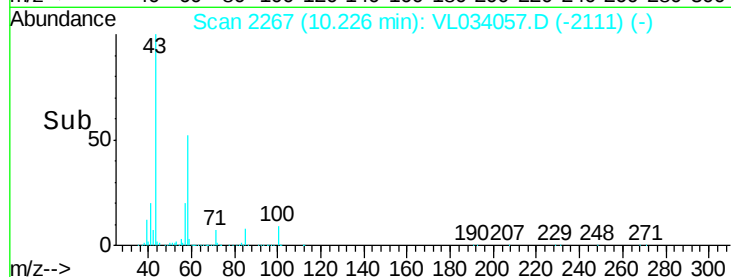
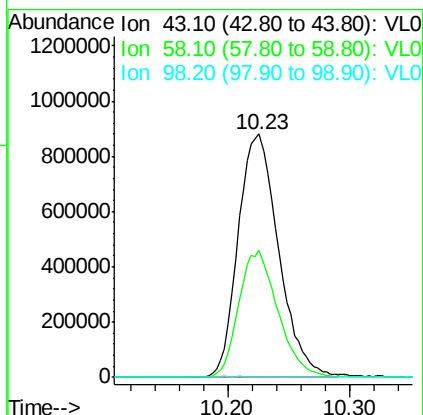
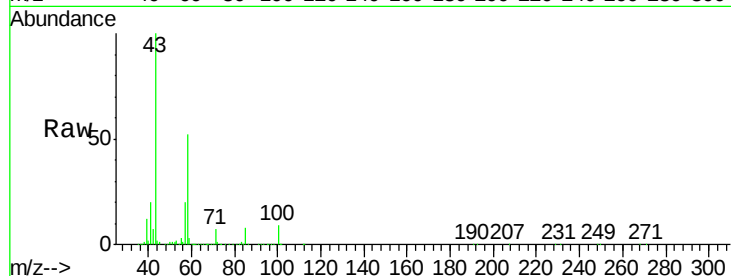
43 100

58 50.5 40.2 60.2

98 0.5 0.4 0.6

Manual Integrations
APPROVED

MMdadoda
8/2/2019 9:37:42 AM



#52

Tetrachloroethene

Concen: 9.027 ppbv

RT: 11.32 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Tgt Ion: 164 Resp: 1008854

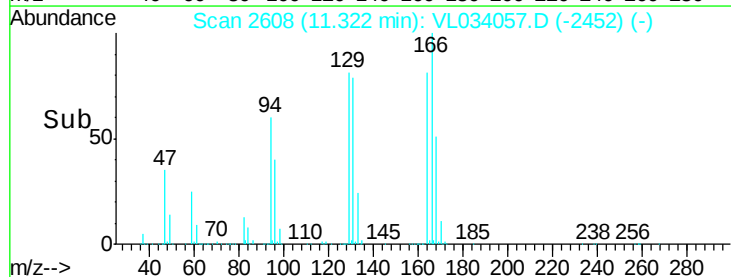
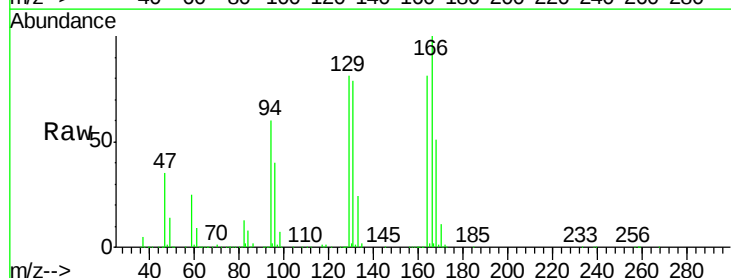
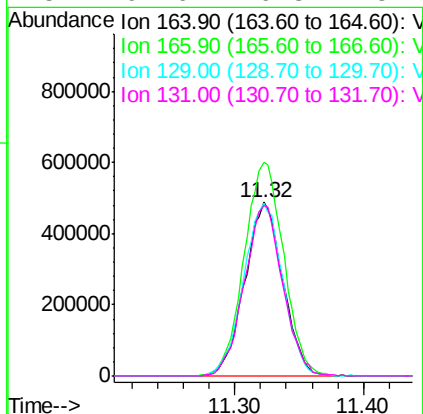
Ion Ratio Lower Upper

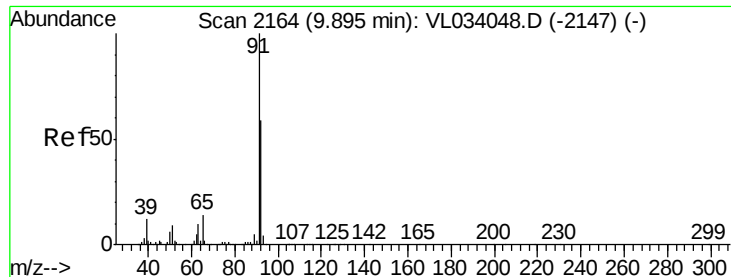
164 100

166 123.0 101.6 152.4

129 99.7 80.7 121.1

131 97.6 76.8 115.2





#53

Toluene

Concen: 9.925 ppbv

RT: 9.90 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

VL0730ABS01

Tot Ion: 91 Resp: 2951701

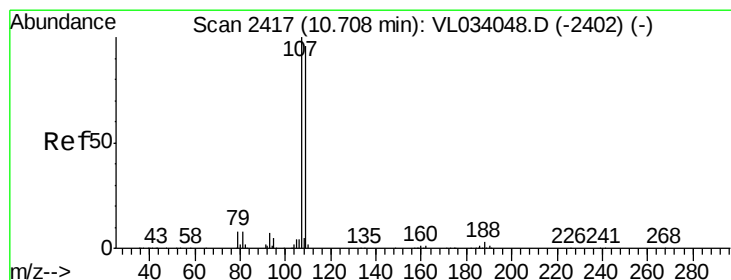
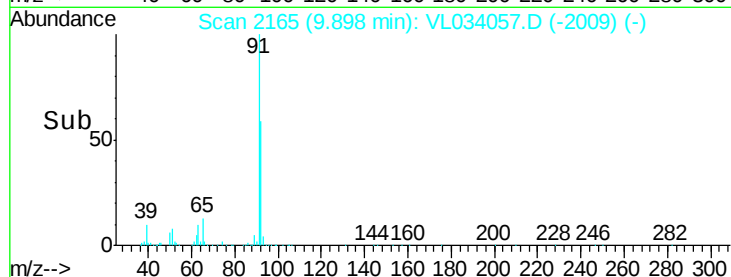
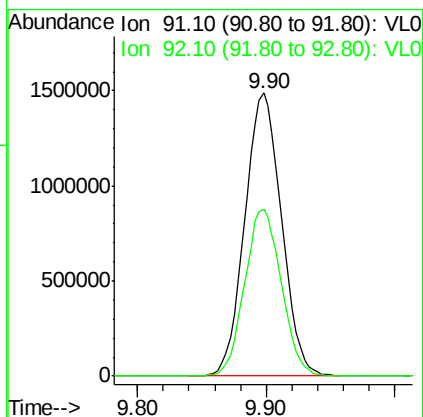
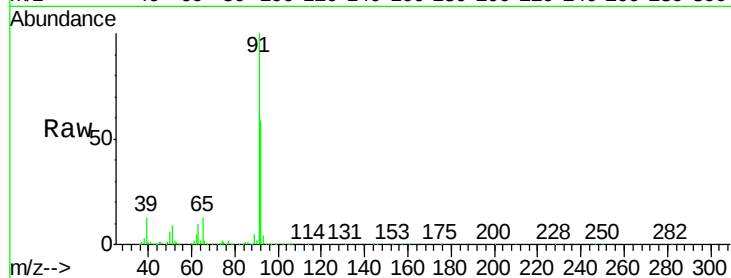
Ion Ratio Lower Upper

91 100

92 59.0 47.4 71.2

Manual Integrations
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8/2/2019 9:37:42 AM



#54

1,2-Dibromoethane

Concen: 9.137 ppbv

RT: 10.71 min Scan# 2418

Delta R.T. 0.00 min

Lab File: VL034057.D

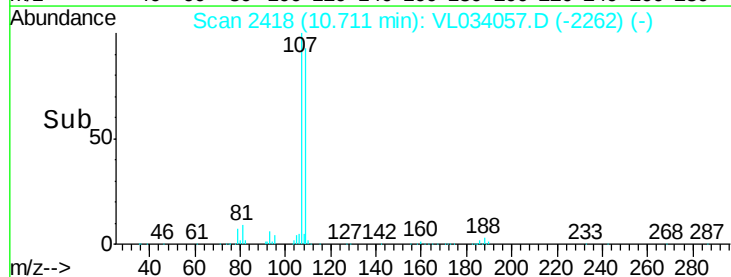
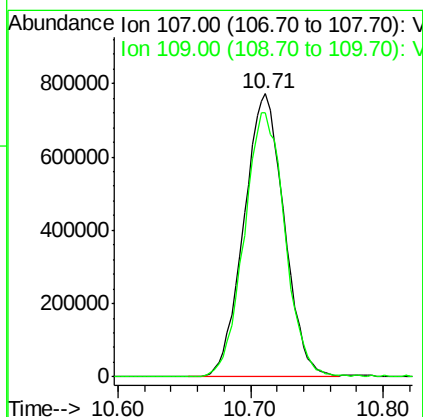
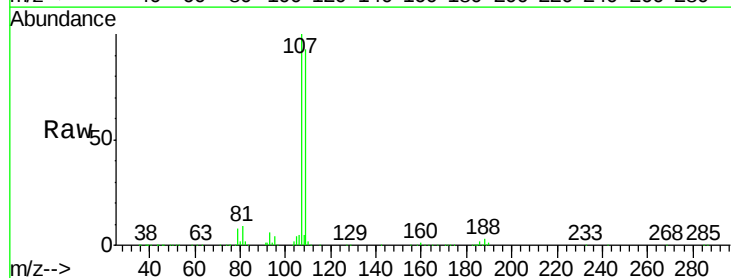
Acq: 30 Jul 2019 9:20

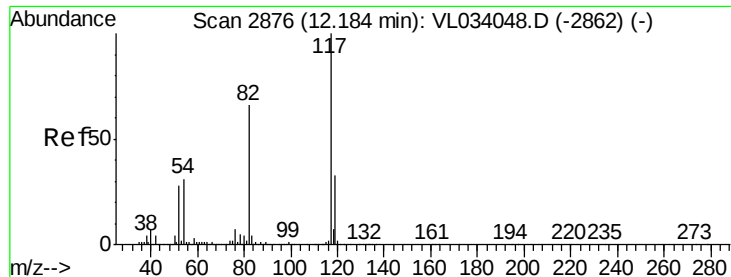
Tgt Ion: 107 Resp: 1631696

Ion Ratio Lower Upper

107 100

109 92.9 76.6 115.0





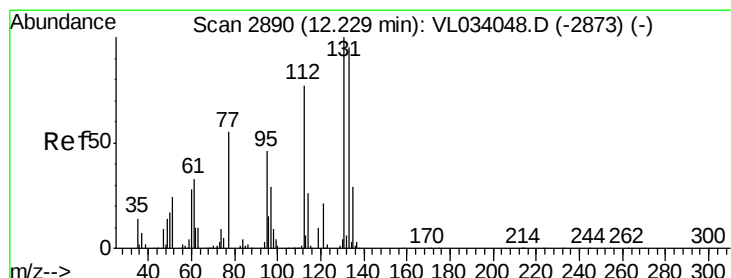
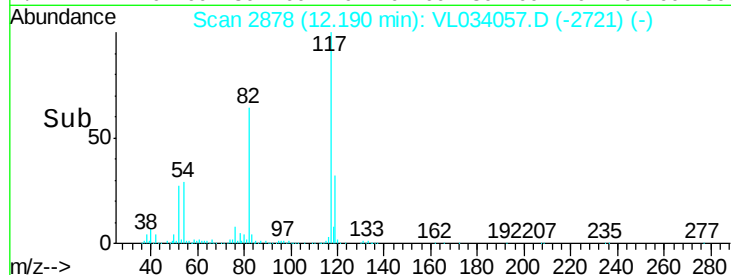
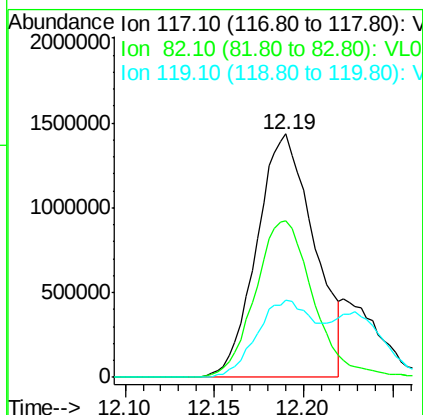
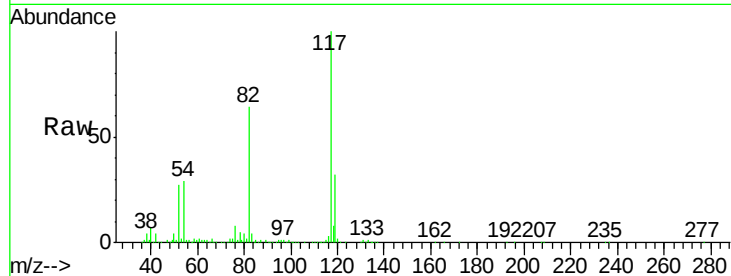
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.19 min Scan# 2878
Delta R.T. 0.01 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Instrument :
MSVOA_L
ClientSampleId :
VL0730ABS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	65.9	49.8	74.8
119	33.0	43.0	64.6

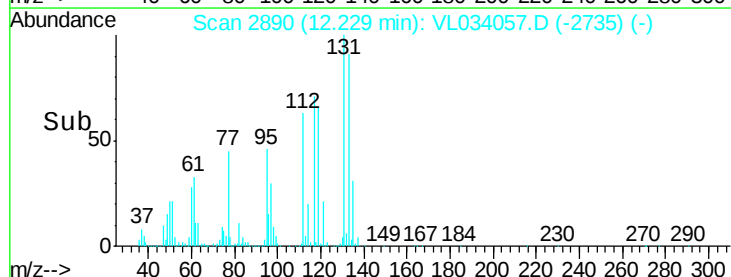
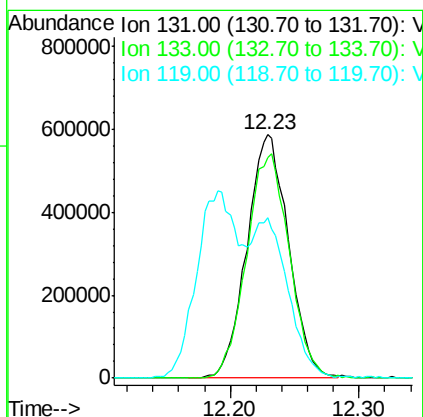
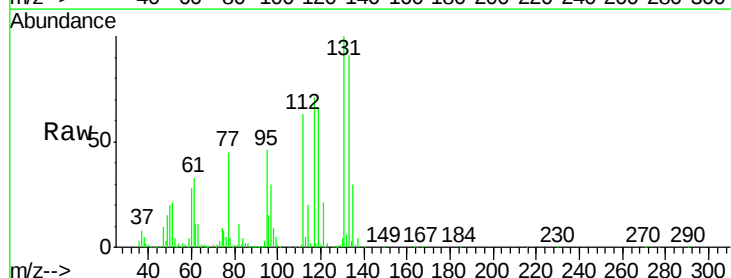
Manual Integrations
APPROVED

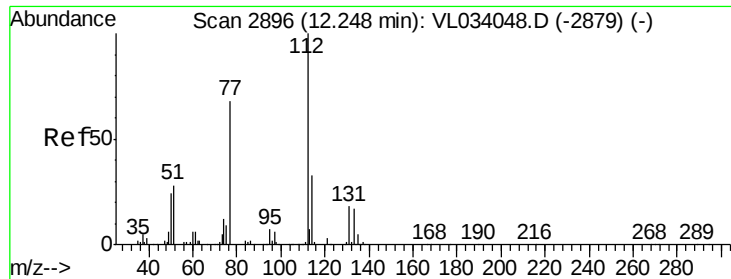
MMdadoda
8/2/2019 9:37:42 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 9.221 ppbv
RT: 12.23 min Scan# 2890
Delta R.T. -0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.8	76.6	114.8
119	52.5	46.6	69.8





#57

Chlorobenzene

Concen: 9.278 ppbv

RT: 12.25 min Scan# 2897

Delta R.T. 0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

VL0730ABS01

Tot Ion:112 Resp: 2302297

Ion Ratio Lower Upper

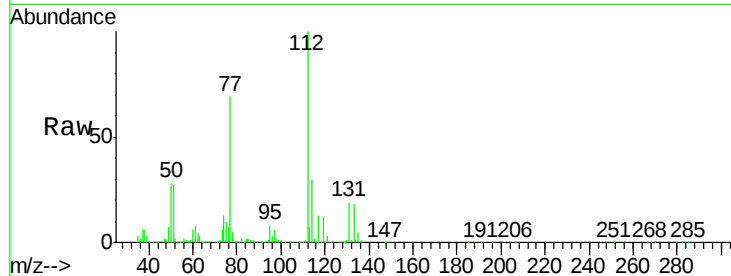
112 100

77 68.5 55.1 82.7

114 30.5 29.5 36.1

Manual Integrations
APPROVED

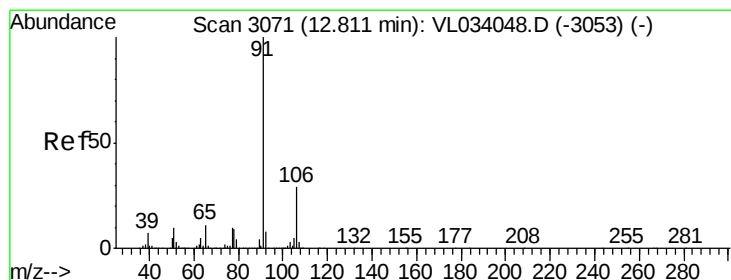
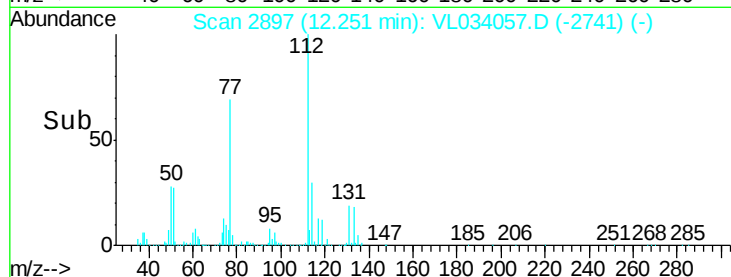
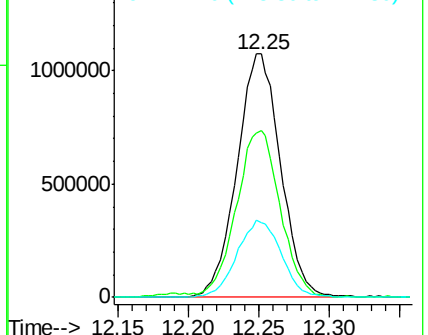
MMdadoda
8/2/2019 9:37:42 AM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.861 ppbv

RT: 12.81 min Scan# 3072

Delta R.T. 0.00 min

Lab File: VL034057.D

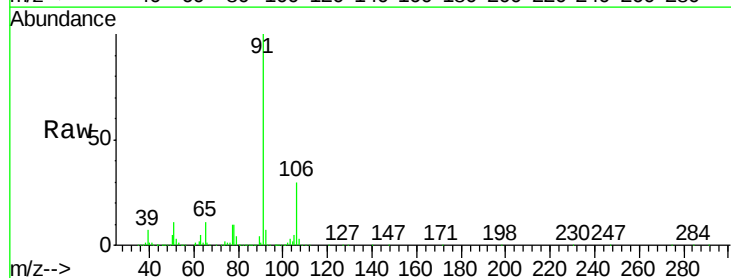
Acq: 30 Jul 2019 9:20

Tgt Ion: 91 Resp: 4117076

Ion Ratio Lower Upper

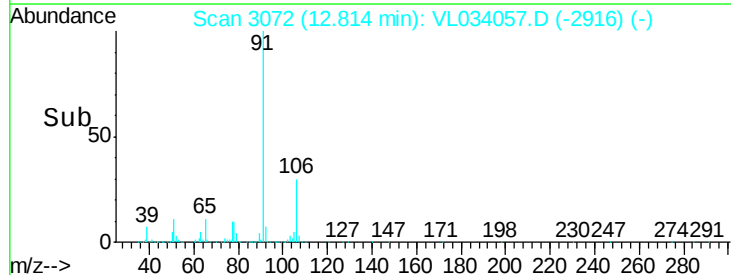
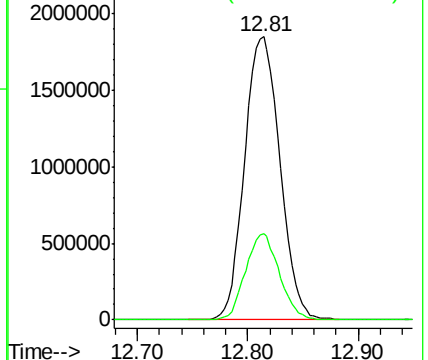
91 100

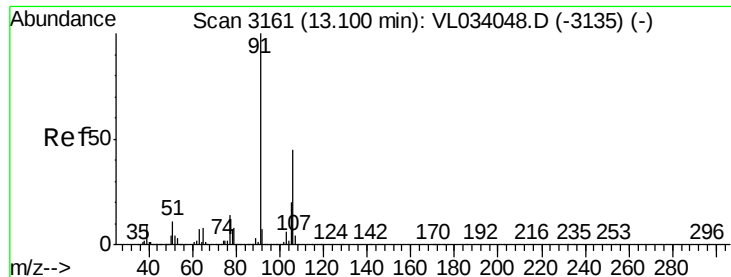
106 30.4 23.5 35.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





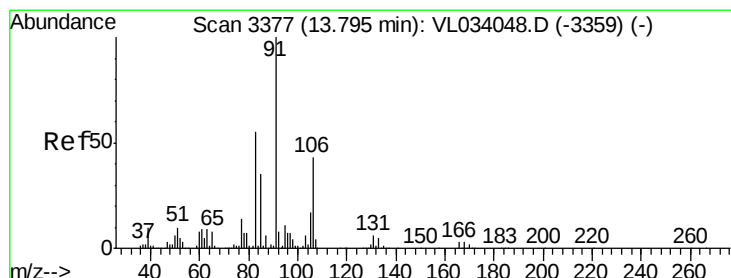
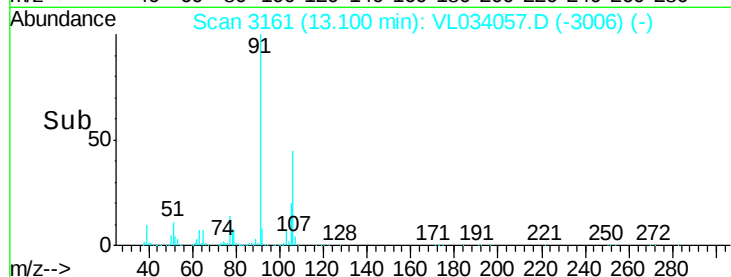
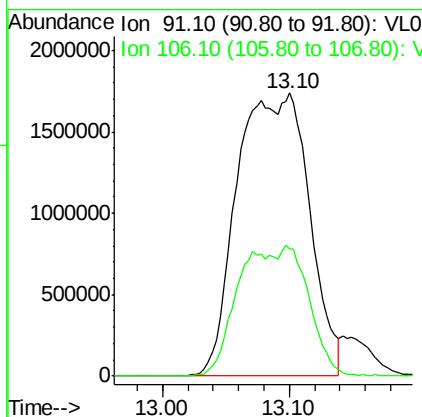
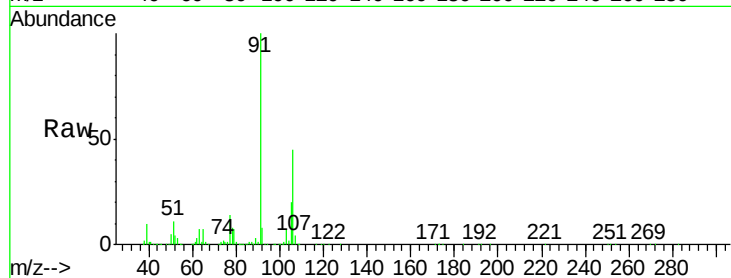
#59
m/p-Xylene
Concen: 19.846 ppbv m
RT: 13.10 min Scan# 3161
Delta R.T. -0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Instrument :
MSVOA_L
ClientSampleId :
VL0730ABS01

Tot Ion: 91 Resp: 6838557
Ion Ratio Lower Upper
91 100
106 44.7 35.1 52.7

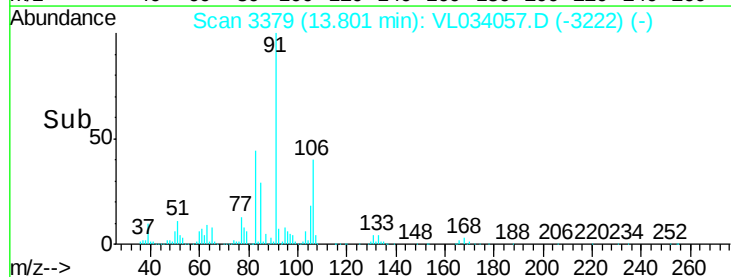
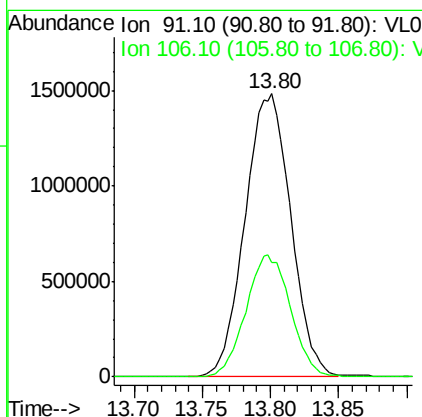
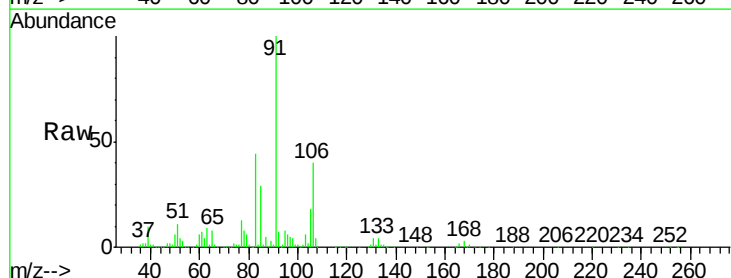
Manual Integrations
APPROVED

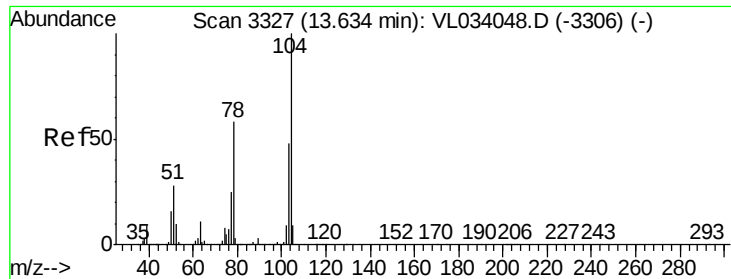
MMDadoda
8/2/2019 9:37:42 AM



#60
o-Xylene
Concen: 10.082 ppbv
RT: 13.80 min Scan# 3379
Delta R.T. 0.01 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Tgt Ion: 91 Resp: 3452995
Ion Ratio Lower Upper
91 100
106 42.1 21.2 63.6





#61

Stvrene

Concen: 11.360 ppbv

RT: 13.63 min Scan# 3327

Delta R.T. -0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

VL0730ABS01

Tot Ion:104 Resp: 2569170

Ion Ratio Lower Upper

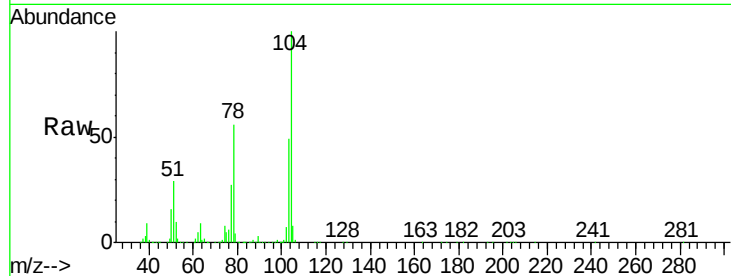
104 100

78 55.0 44.3 66.5

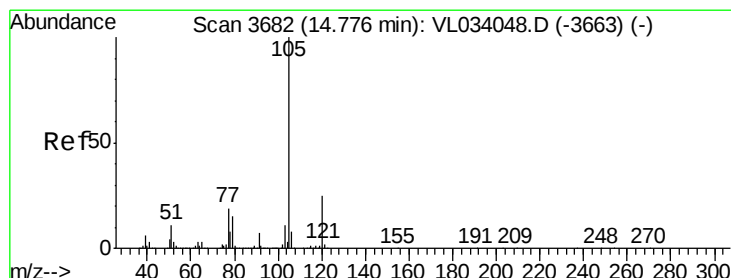
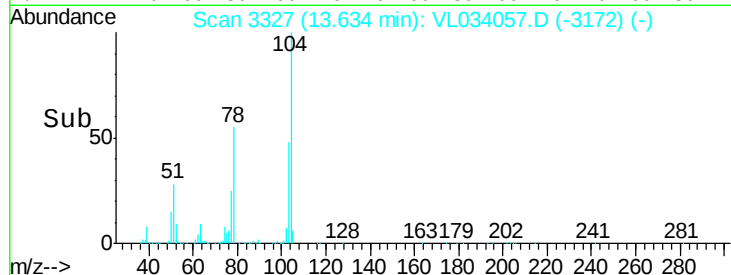
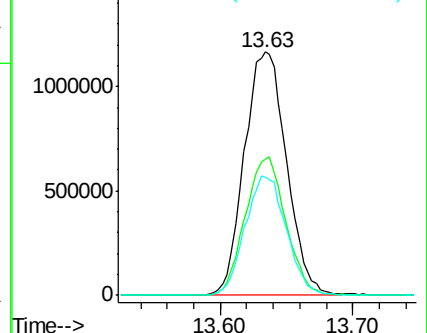
103 48.1 38.8 58.2

Manual Integrations
APPROVED

MMDadoda
8/2/2019 9:37:42 AM



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: 10.045 ppbv

RT: 14.78 min Scan# 3682

Delta R.T. -0.00 min

Lab File: VL034057.D

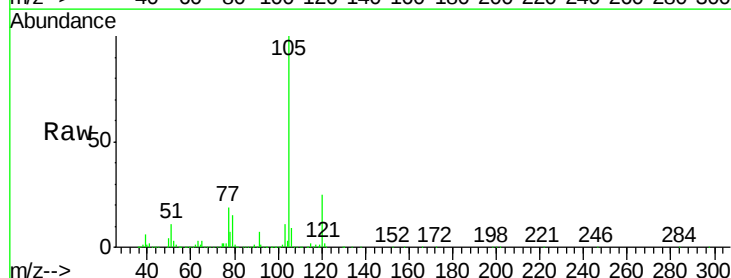
Acq: 30 Jul 2019 9:20

Tgt Ion:105 Resp: 4608774

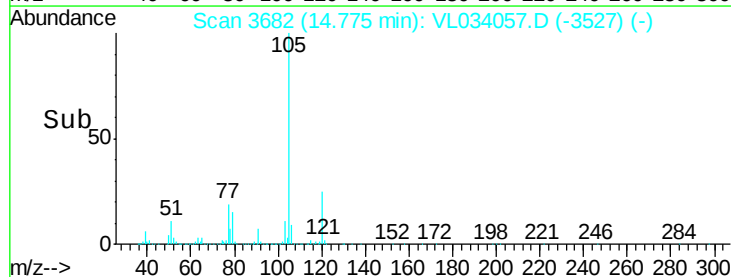
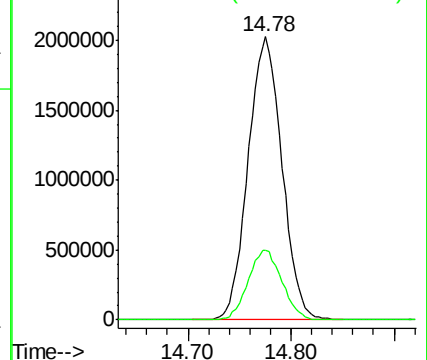
Ion Ratio Lower Upper

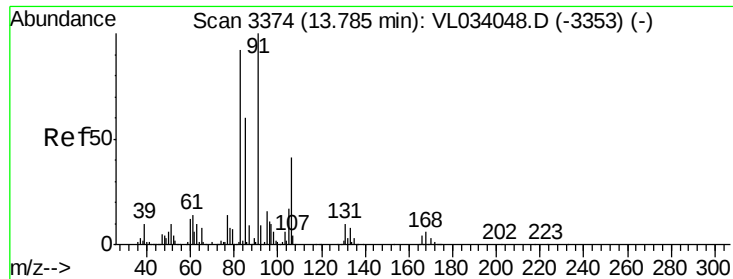
105 100

120 24.8 20.2 30.2



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: 9.109 ppbv

RT: 13.79 min Scan# 3375

Delta R.T. 0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

VL0730ABS01

Tot Ion: 83 Resp: 2394135

Ion Ratio Lower Upper

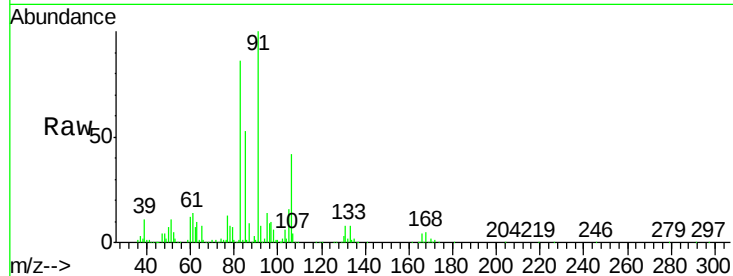
83 100

131 9.8 4.8 14.4

85 64.7 32.4 97.0

Manual Integrations
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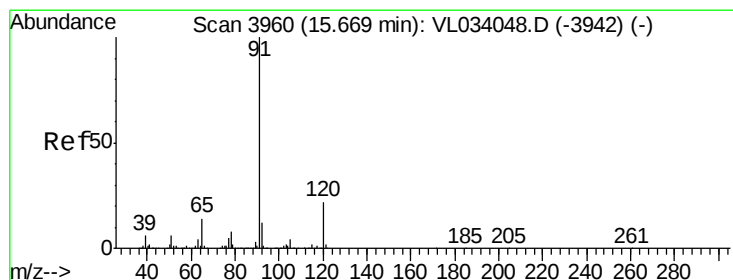
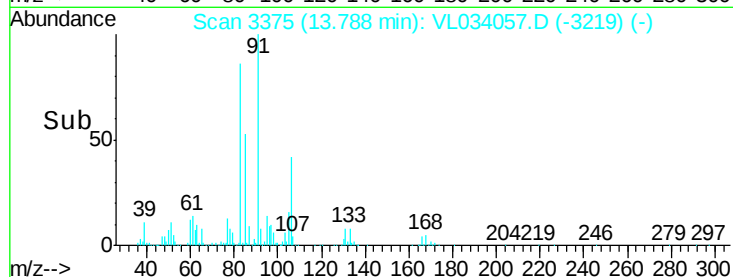
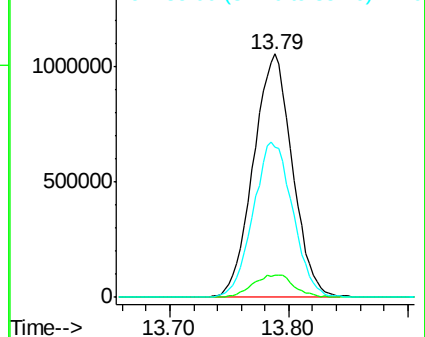
MMdadoda
8/2/2019 9:37:42 AM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 9.655 ppbv

RT: 15.67 min Scan# 3961

Delta R.T. 0.00 min

Lab File: VL034057.D

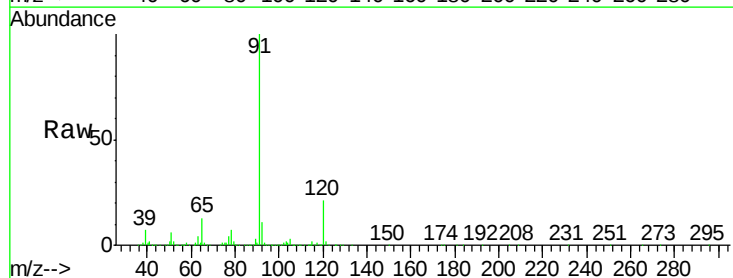
Acq: 30 Jul 2019 9:20

Tgt Ion:120 Resp: 1147213

Ion Ratio Lower Upper

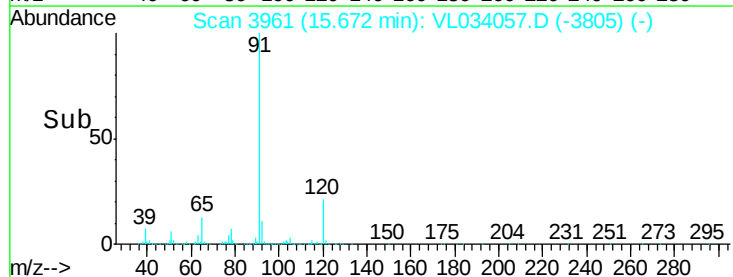
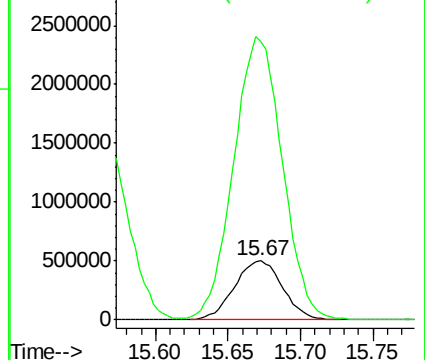
120 100

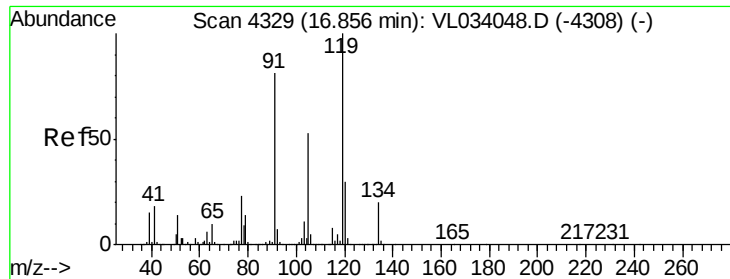
91 491.7 386.2 579.2



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





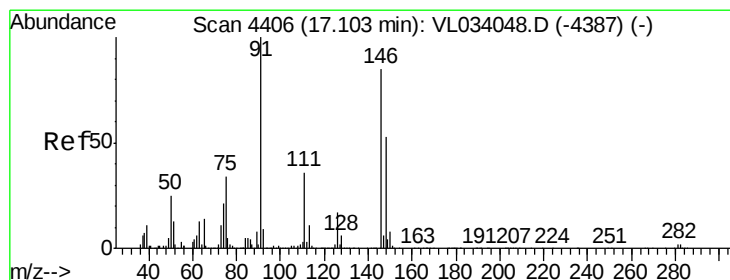
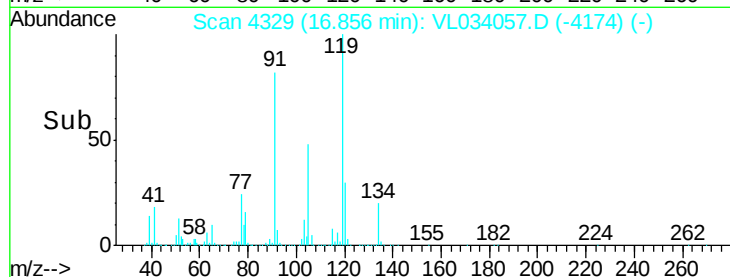
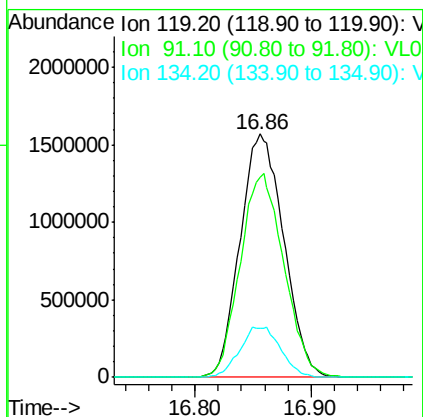
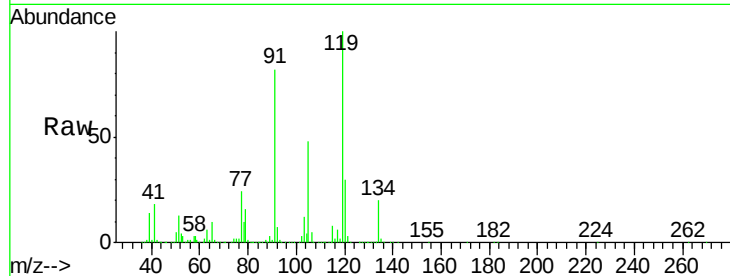
#65
tert-Butylbenzene
Concen: 9.695 ppbv
RT: 16.86 min Scan# 4329
Delta R.T. -0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Instrument :
MSVOA_L
ClientSampleId :
VL0730ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	84.2	66.9	100.3
134	19.4	15.5	23.3

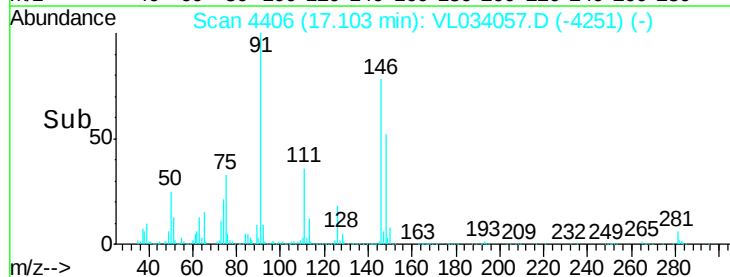
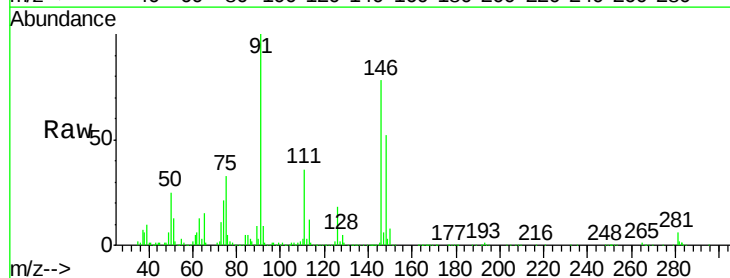
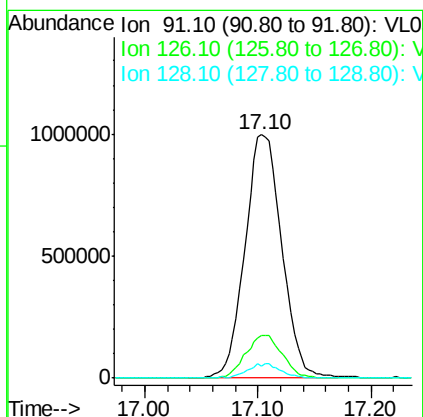
Manual Integrations
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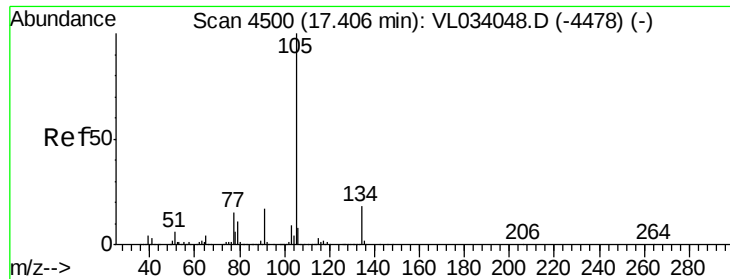
MMDadoda
8/2/2019 9:37:42 AM



#66
Benzyl Chloride
Concen: 10.649 ppbv
RT: 17.10 min Scan# 4406
Delta R.T. -0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Tgt Ion	Ratio	Lower	Upper
91	100		
126	17.4	13.5	20.3
128	5.4	4.5	6.7





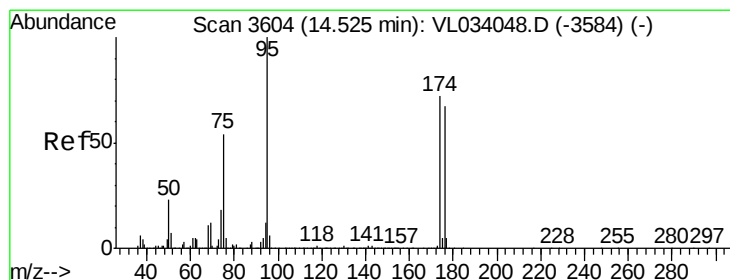
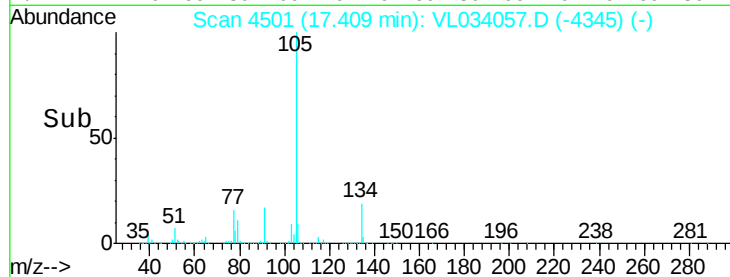
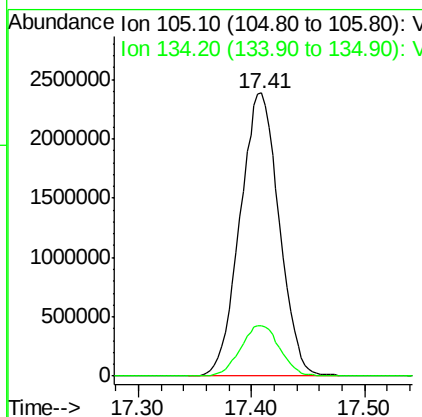
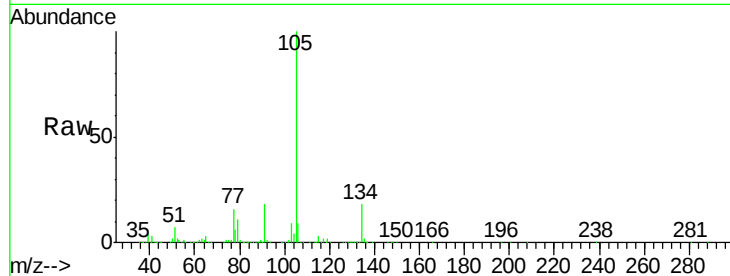
#67
 sec-Butylbenzene
 Concen: 9.526 ppbv
 RT: 17.41 min Scan# 4501
 Delta R.T. 0.00 min
 Lab File: VL034057.D
 Acq: 30 Jul 2019 9:20

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0730ABS01

Tot Ion: 105 Resp: 5727654
 Ion Ratio Lower Upper
 105 100
 134 18.1 14.3 21.5

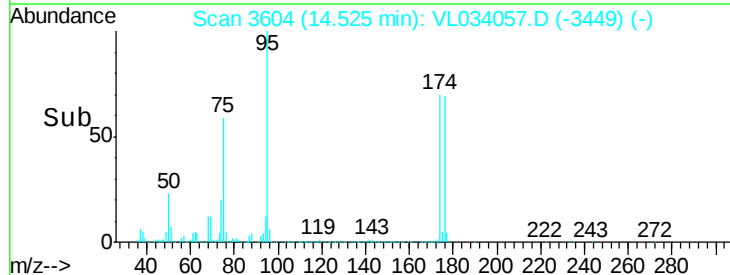
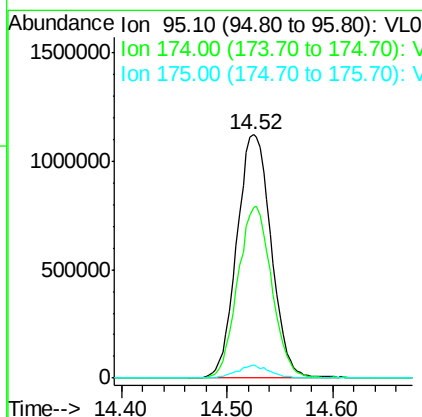
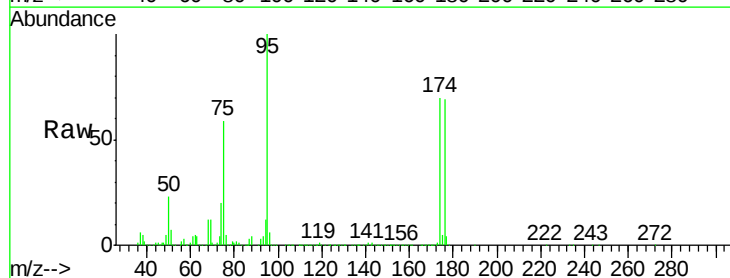
Manual Integrations
 APPROVED

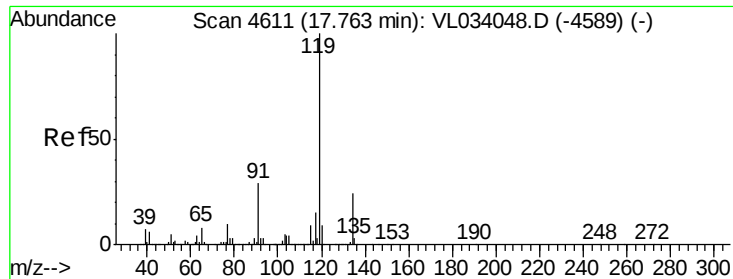
MMdadoda
 8/2/2019 9:37:42 AM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.044 ppbv
 RT: 14.52 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VL034057.D
 Acq: 30 Jul 2019 9:20

Tgt Ion: 95 Resp: 2542960
 Ion Ratio Lower Upper
 95 100
 174 69.9 57.6 86.4
 175 4.9 4.1 6.1





#69

p-Isopropyltoluene

Concen: 9.731 ppbv

RT: 17.77 min Scan# 4612

Delta R.T. 0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

VL0730ABS01

Tot Ion:119 Resp: 4768839

Ion Ratio Lower Upper

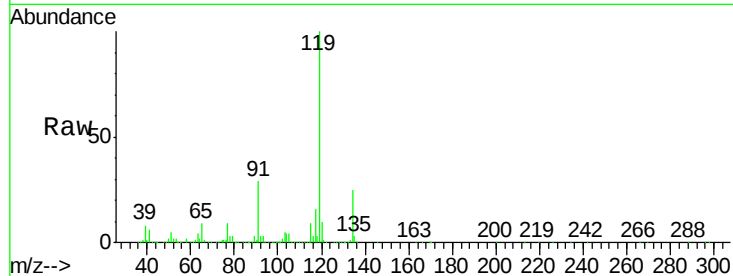
119 100

134 25.2 20.1 30.1

91 29.8 23.6 35.4

Manual Integrations
APPROVED

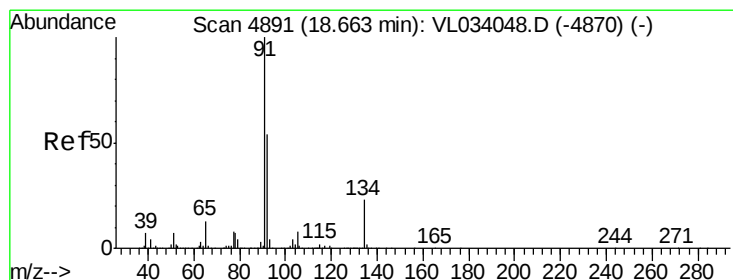
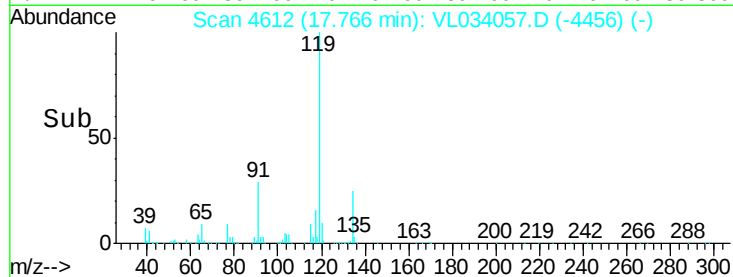
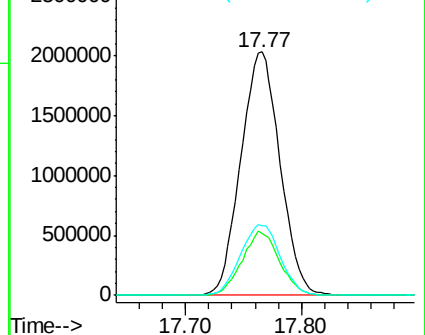
MMdadoda
8/2/2019 9:37:42 AM



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 9.614 ppbv

RT: 18.66 min Scan# 4891

Delta R.T. -0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

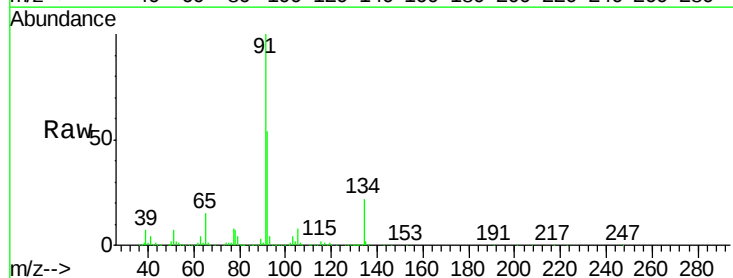
Tgt Ion: 91 Resp: 4987225

Ion Ratio Lower Upper

91 100

92 52.4 42.6 64.0

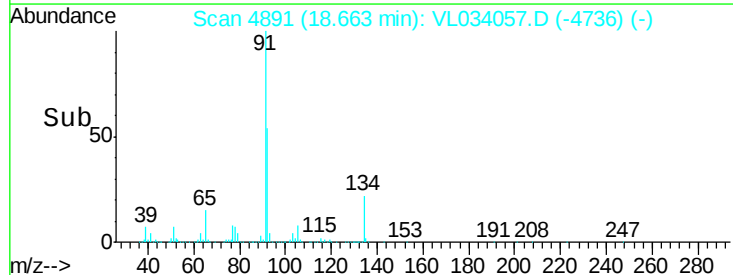
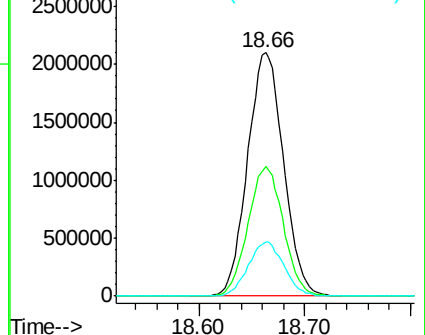
134 22.1 17.7 26.5

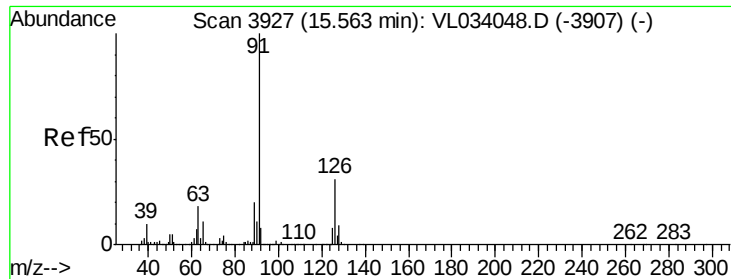


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





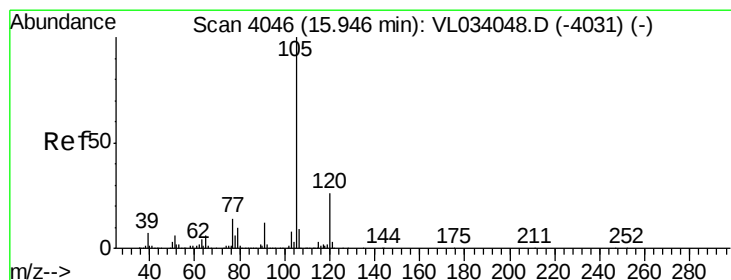
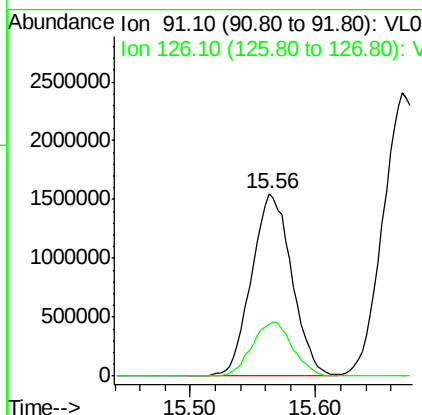
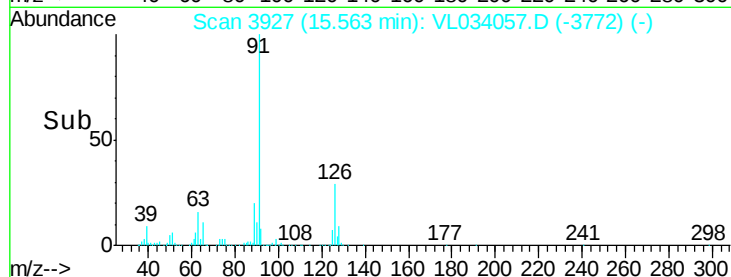
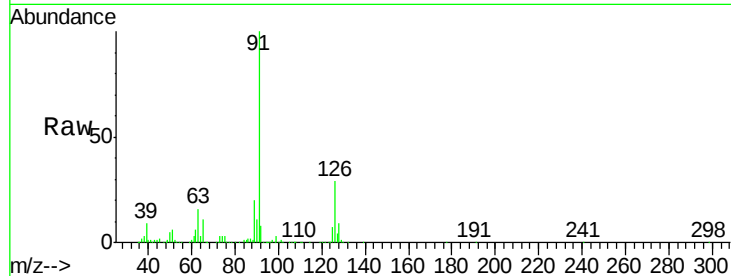
#71
 2-Chlorotoluene
 Concen: 10.391 ppbv
 RT: 15.56 min Scan# 3927
 Delta R.T. -0.00 min
 Lab File: VL034057.D
 Acq: 30 Jul 2019 9:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0730ABS01

Tot Ion: 91 Resp: 3461369
 Ion Ratio Lower Upper
 91 100
 126 30.0 12.0 48.2

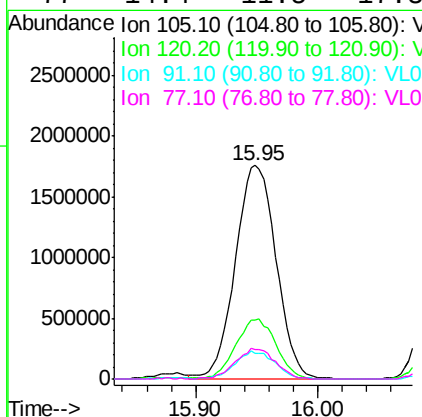
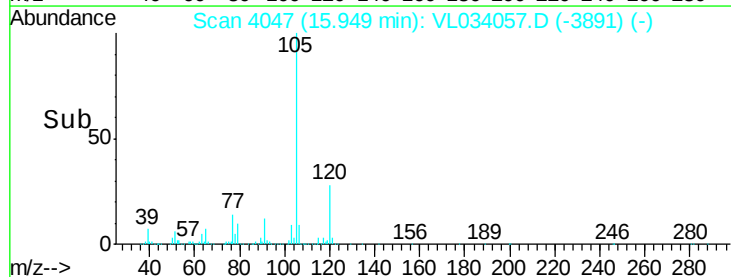
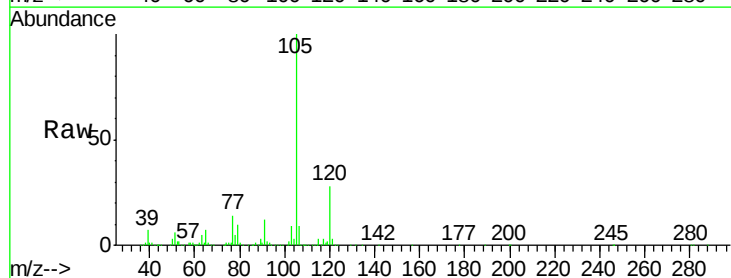
Manual Integrations
 APPROVED

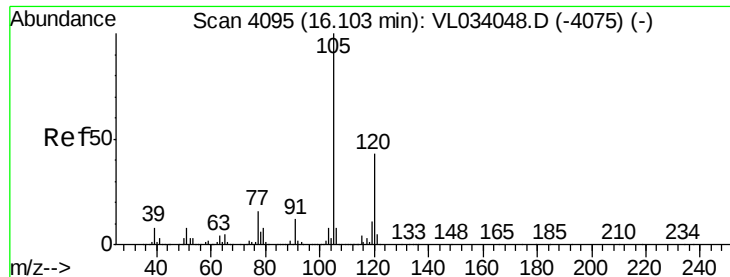
MMdadoda
 8/2/2019 9:37:42 AM



#72
 4-Ethyltoluene
 Concen: 10.450 ppbv
 RT: 15.95 min Scan# 4047
 Delta R.T. 0.00 min
 Lab File: VL034057.D
 Acq: 30 Jul 2019 9:20

Tgt Ion: 105 Resp: 4046900
 Ion Ratio Lower Upper
 105 100
 120 27.9 23.0 34.4
 91 12.8 10.6 16.0
 77 14.4 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 9.565 ppbv

RT: 16.11 min Scan# 4096

Delta R.T. 0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

VL0730ABS01

Tot Ion:105 Resp: 3769886

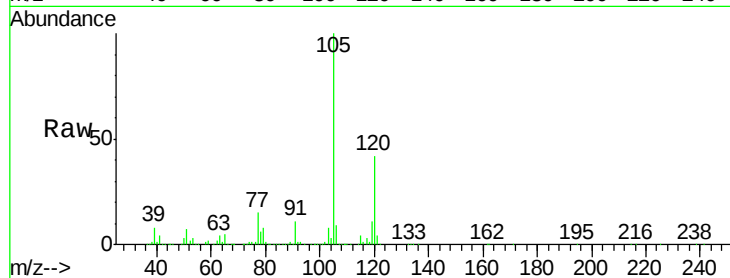
Ion Ratio Lower Upper

105 100

120 41.9 34.7 52.1

Manual Integrations
APPROVED

MMdadoda
8/2/2019 9:37:42 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

2000000

1500000

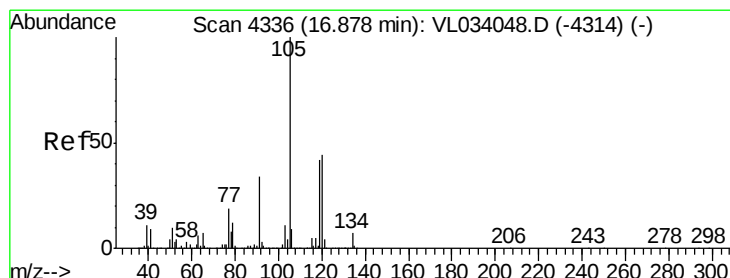
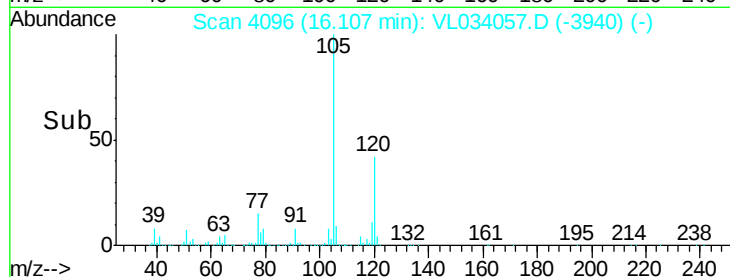
1000000

500000

0

16.00 16.10 16.20

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 9.242 ppbv

RT: 16.87 min Scan# 4334

Delta R.T. -0.01 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Tgt Ion:105 Resp: 4001372

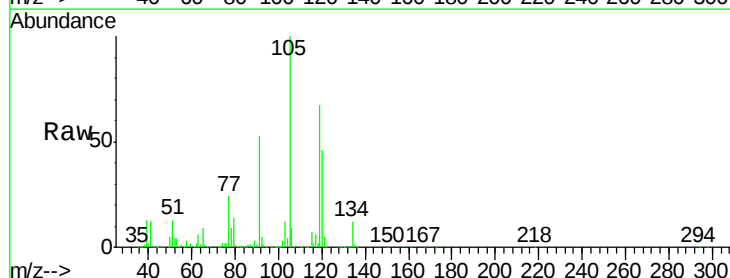
Ion Ratio Lower Upper

105 100

120 45.7 35.6 53.4

91 53.2 28.0 42.0#

77 23.6 15.2 22.8#



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

2500000

2000000

1500000

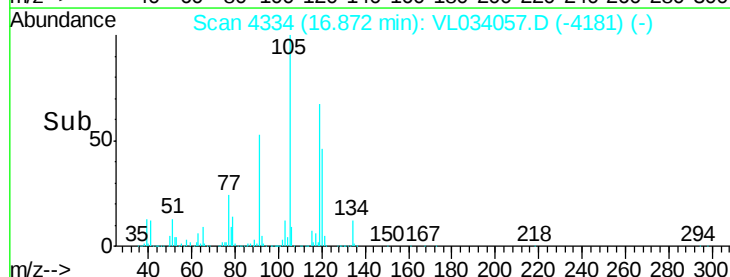
1000000

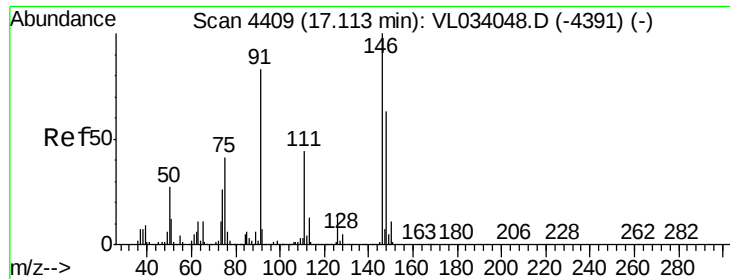
500000

0

16.80 16.90

Time-->





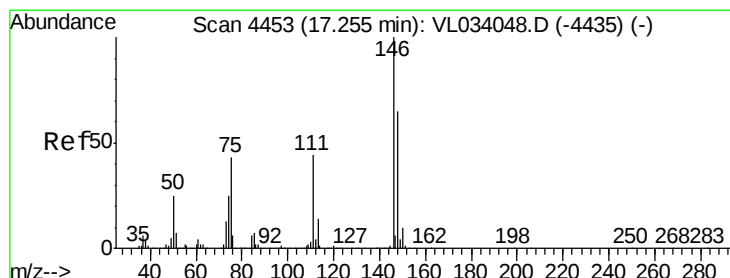
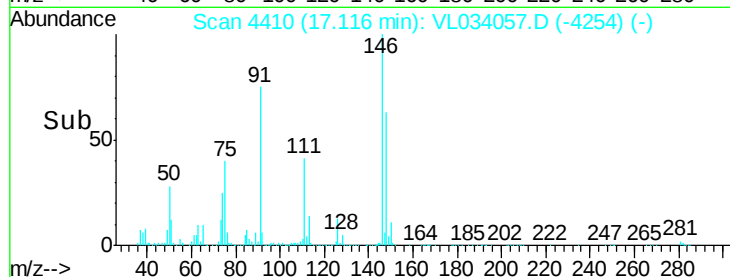
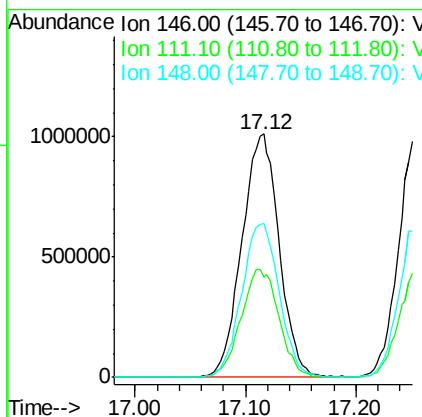
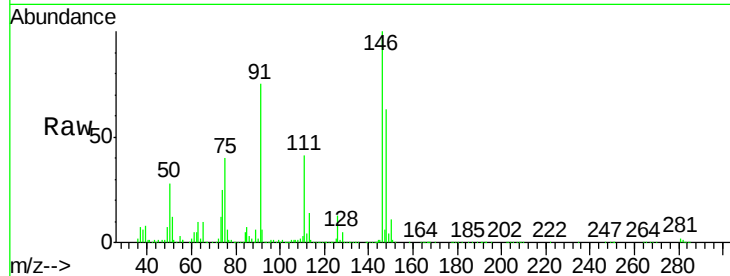
#75
 1,3-Dichlorobenzene
 Concen: 8.733 ppbv
 RT: 17.12 min Scan# 4410
 Delta R.T. 0.00 min
 Lab File: VL034057.D
 Acq: 30 Jul 2019 9:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0730ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.3	22.1	66.5
148	64.0	32.0	96.2

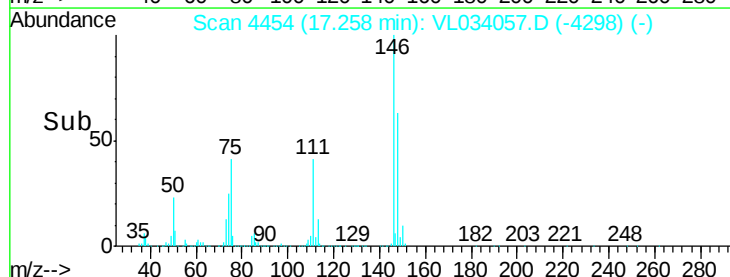
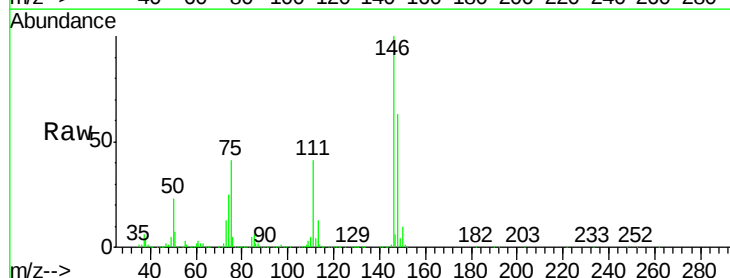
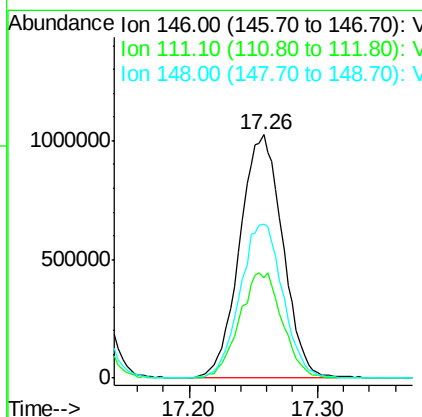
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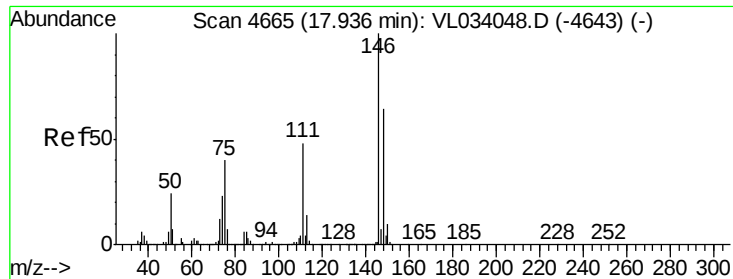
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#76
 1,4-Dichlorobenzene
 Concen: 9.239 ppbv
 RT: 17.26 min Scan# 4454
 Delta R.T. 0.00 min
 Lab File: VL034057.D
 Acq: 30 Jul 2019 9:20

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.8	21.8	65.4
148	64.0	32.3	96.9





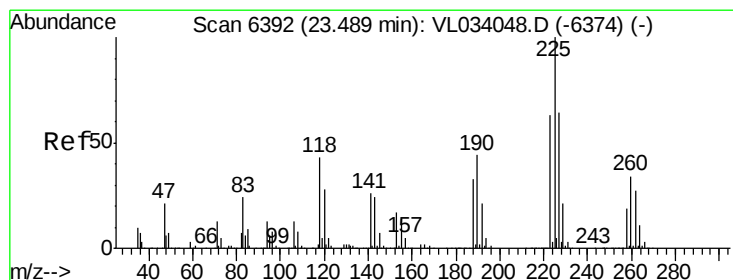
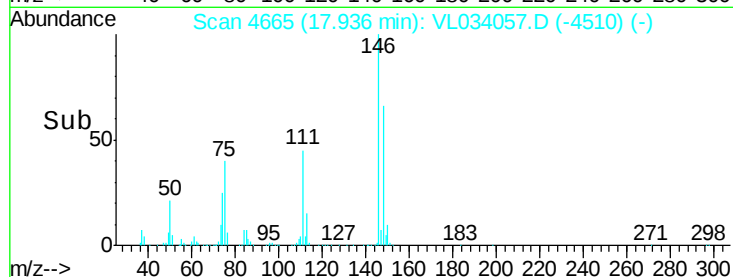
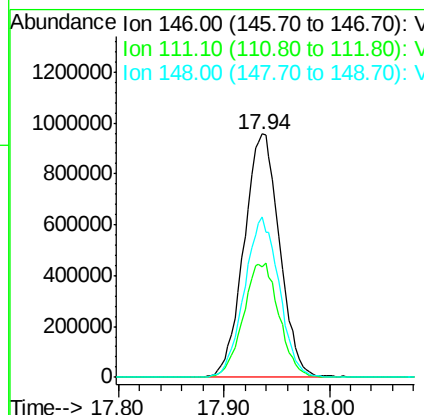
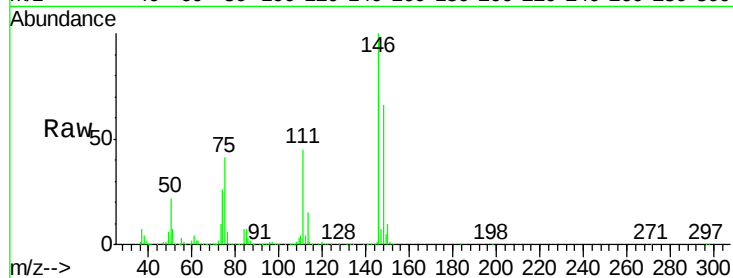
#77
 1,2-Dichlorobenzene
 Concen: 9.033 ppbv
 RT: 17.94 min Scan# 4665
 Delta R.T. -0.00 min
 Lab File: VL034057.D
 Acq: 30 Jul 2019 9:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0730ABS01

Tot Ion:146 Resp: 2246388
 Ion Ratio Lower Upper
 146 100
 111 47.1 23.4 70.2
 148 64.5 32.3 96.9

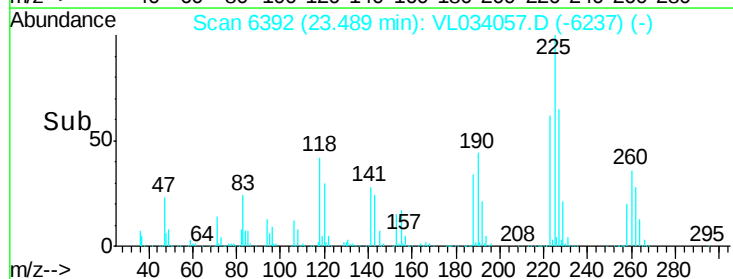
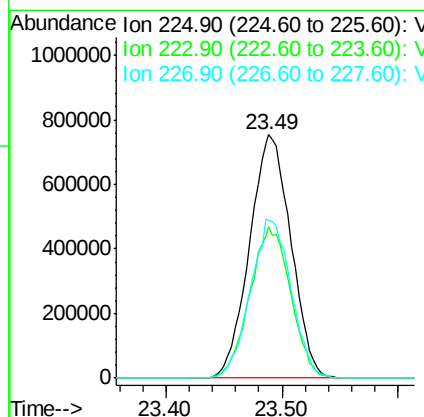
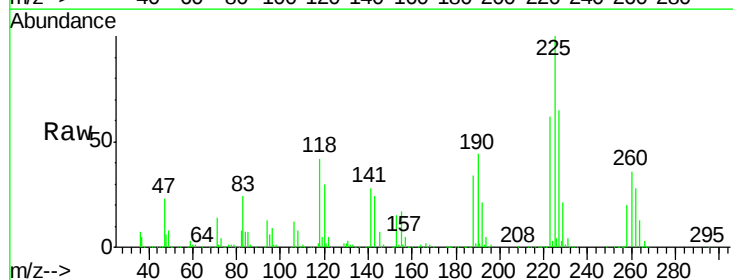
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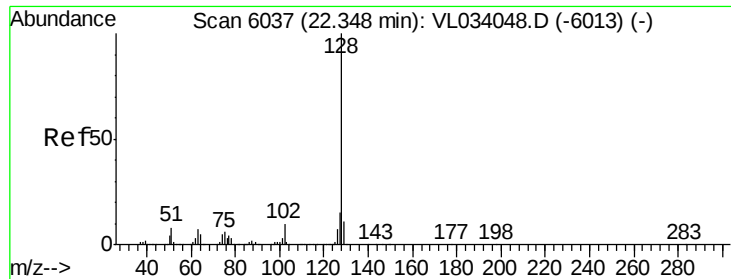
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#78
 Hexachloro-1,3-Butadiene
 Concen: 8.144 ppbv
 RT: 23.49 min Scan# 6392
 Delta R.T. -0.00 min
 Lab File: VL034057.D
 Acq: 30 Jul 2019 9:20

Tgt Ion:225 Resp: 1863167
 Ion Ratio Lower Upper
 225 100
 223 61.3 49.6 74.4
 227 64.4 51.4 77.2





#79

Naphthalene

Concen: 9.868 ppbv

RT: 22.35 min Scan# 6037

Delta R.T. -0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

VL0730ABS01

Tot Ion:128 Resp: 3724355

Ion Ratio Lower Upper

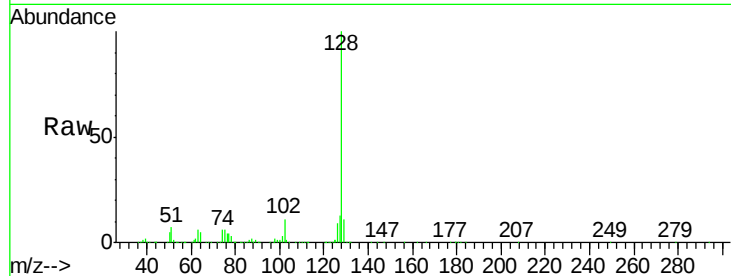
128 100

127 13.0 11.8 17.6

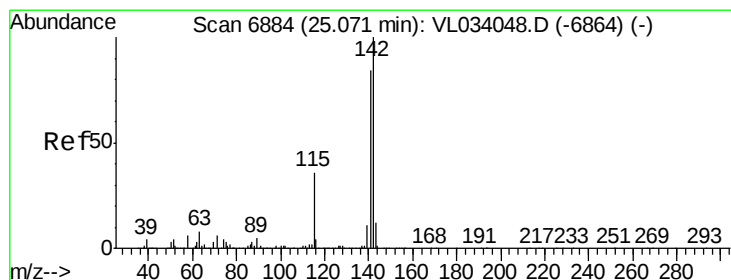
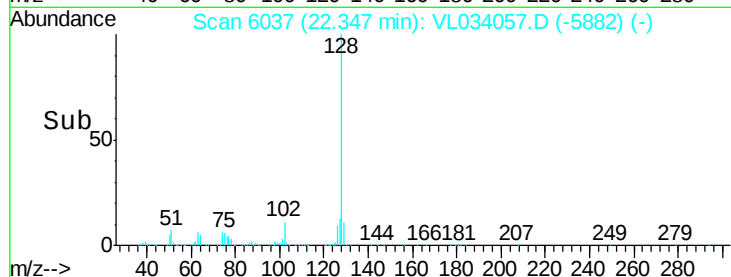
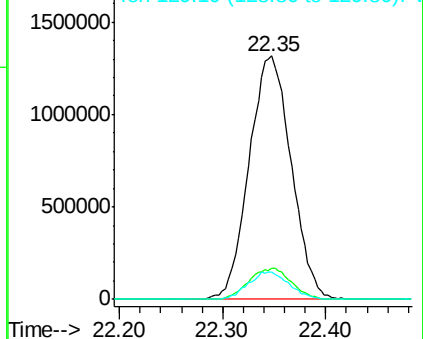
129 11.2 9.1 13.7

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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: 9.301 ppbv

RT: 25.07 min Scan# 6883

Delta R.T. -0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

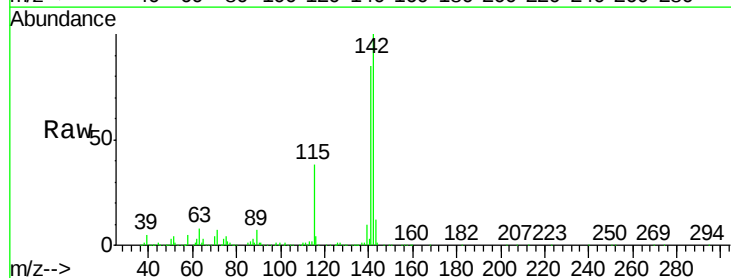
Tgt Ion:142 Resp: 1223909

Ion Ratio Lower Upper

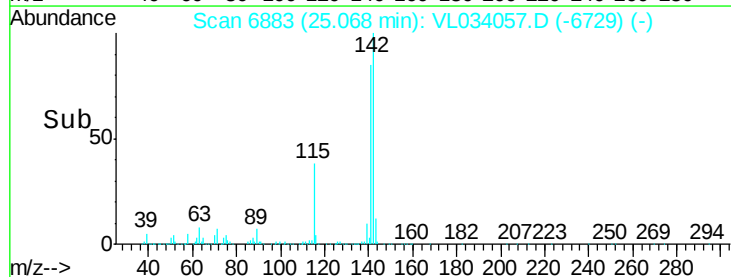
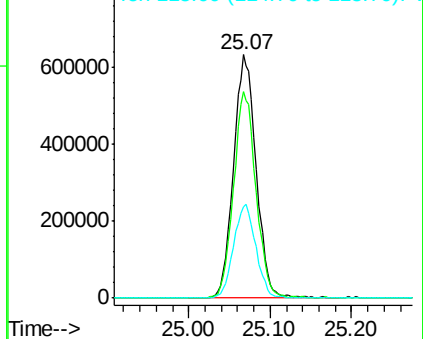
142 100

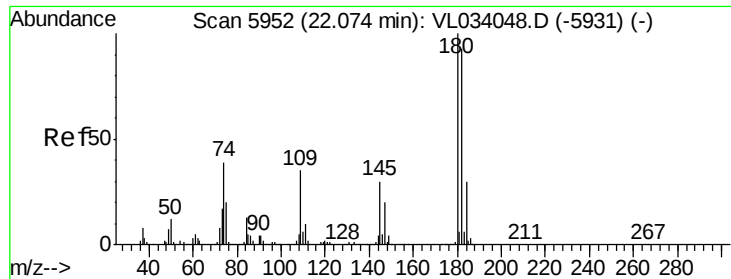
141 84.1 67.6 101.4

115 38.3 29.8 44.6



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





#81
 1,2,4-Trichlorobenzene
 Concen: 9.242 ppbv
 RT: 22.07 min Scan# 5952
 Delta R.T. -0.00 min
 Lab File: VL034057.D
 Acq: 30 Jul 2019 9:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0730ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.6	76.5	114.7
184	30.2	24.5	36.7

Manual Integrations
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