

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021920\
 Data File : VL034648.D
 Acq On : 19 Feb 2020 11:08
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 2/21/2020 3:23:54 PM

Quant Time: Feb 20 07:07:45 2020

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30

QLast Update : Thu Jan 30 17:16:44 2020

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	932221	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1896160	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	1966441	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1694734	10.20	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.01	85	1456082	7.092	ppbv 94
3) Chlorodifluoromethane	2.95	51	1156710	10.269	ppbv 100
4) Chloromethane	3.10	50	698092	10.129	ppbv 99
5) Vinyl Chloride	3.22	62	674128	10.240	ppbv 99
6) Bromomethane	3.44	94	370136	10.810	ppbv 95
7) Chloroethane	3.52	64	256027	10.458	ppbv 96
8) Dichlorotetrafluoroethane	3.15	85	1648519	10.272	ppbv 100
9) Propene	2.97	41	431056	9.828	ppbv 99
10) Heptane	8.13	43	1190140	10.783	ppbv 98
11) Trichlorofluoromethane	3.92	101	1952003	10.465	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1313491	10.793	ppbv 98
13) Ethanol	3.57	45	118467	10.084	ppbv 98
14) Bromoethene	3.71	108	525608	11.010	ppbv 99
15) Acetone	3.82	43	1364575	9.960	ppbv 99
16) 1,3-Butadiene	3.29	39	605770	11.134	ppbv 100
17) tert-Butyl alcohol	4.27	59	1307634	12.978	ppbv 99
18) 1,1-Dichloroethene	4.26	96	582790	11.344	ppbv 98
19) Isopropyl Alcohol	3.94	45	991632	12.403	ppbv 100
20) Methylene Chloride	4.32	84	507774	9.733	ppbv 95
21) Allyl Chloride	4.39	41	930046	10.930	ppbv 98
22) trans-1,2-Dichloroethene	4.87	96	587289	10.916	ppbv 96
23) Vinyl Acetate	5.06	43	1649427	10.552	ppbv 99
24) 1,1-Dichloroethane	4.99	63	1362387	10.439	ppbv 99
25) Ethyl Acetate	5.66	43	2266833	10.220	ppbv 99
26) Hexane	5.68	57	956377	10.294	ppbv 100
27) Carbon Disulfide	4.53	76	1489190	11.879	ppbv 100
28) Methyl tert-Butyl Ether	5.01	73	1696332	10.706	ppbv 100
29) Chloroform	5.75	83	1683159	10.246	ppbv 97
30) Cyclohexane	7.13	84	758332	11.015	ppbv 98
31) cis-1,2-Dichloroethene	5.54	61	1040853	10.783	ppbv 97
32) 1,1,1-Trichloroethane	6.51	97	1766620	10.015	ppbv 100
34) 2-Butanone	5.23	43	1391599	10.108	ppbv 99
35) Carbon Tetrachloride	7.02	117	1930130	10.647	ppbv 95
36) Benzene	6.90	78	1824364	10.819	ppbv 98
37) 1,2-Dichloroethane	6.30	62	1500361	10.665	ppbv 100
38) Trichloroethene	7.84	130	801756	11.280	ppbv 95
39) 1,2-Dichloropropane	7.62	63	742765	10.626	ppbv 95
40) 1,4-Dioxane	7.84	88	298318	11.102	ppbv # 1
41) Tetrahydrofuran	6.04	42	752595	10.478	ppbv 98
42) Bromodichloromethane	7.80	83	1860897	10.747	ppbv 99
43) Methyl Methacrylate	8.02	69	757091	11.163	ppbv 100

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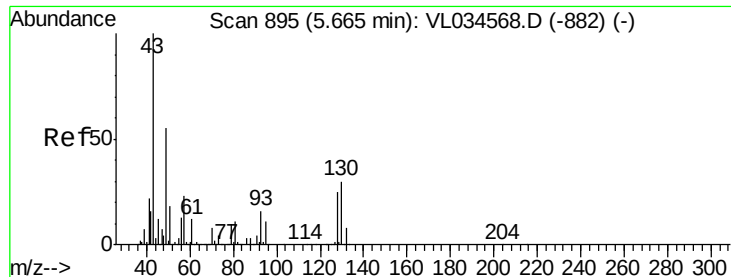
Manual Integrations
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 2020
 QLast Update : Thu Jan 30 17:16:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	3244075	10.603	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	1097861	12.362	ppbv	98
46) cis-1,3-Dichloropropene	8.72	75	1221474	12.101	ppbv	97
47) 1,1,2-Trichloroethane	9.49	97	803854	10.617	ppbv	97
48) Dibromochloromethane	10.33	129	1591756	11.473	ppbv	100
49) Bromoform	13.07	173	1401576	11.506	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	2133175	10.865	ppbv	100
51) 2-Hexanone	10.15	43	1750885	11.328	ppbv	99
52) Tetrachloroethene	11.25	164	729659	10.772	ppbv	98
53) Toluene	9.82	91	2160349	11.662	ppbv	100
54) 1,2-Dibromoethane	10.63	107	1240514	10.934	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.15	131	1058788	10.906	ppbv	98
57) Chlorobenzene	12.18	112	1750348	10.817	ppbv	98
58) Ethyl Benzene	12.74	91	2983279	11.337	ppbv	96
59) m/p-Xylene	13.02	91	5051577m	21.717	ppbv	
60) o-Xylene	13.72	91	2562482	10.969	ppbv	100
61) Styrene	13.56	104	1850521	11.880	ppbv	98
62) Isopropylbenzene	14.70	105	3298694	10.897	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.71	83	1781766	9.862	ppbv	99
64) n-propylbenzene	15.59	120	855628	10.986	ppbv	93
65) tert-Butylbenzene	16.78	119	3016742	11.000	ppbv	99
66) Benzyl Chloride	17.03	91	1457847	12.677	ppbv	100
67) sec-Butylbenzene	17.33	105	4102340	10.884	ppbv	99
69) p-Isopropyltoluene	17.69	119	3425879	11.194	ppbv	100
70) n-Butylbenzene	18.59	91	3572568	10.997	ppbv	99
71) 2-Chlorotoluene	15.49	91	2533059	11.023	ppbv	99
72) 4-Ethyltoluene	15.88	105	2900472	11.303	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	2789261	11.124	ppbv	98
74) 1,2,4-Trimethylbenzene	16.80	105	2951544	10.633	ppbv	95
75) 1,3-Dichlorobenzene	17.04	146	1649016	10.317	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	1634952	10.379	ppbv	99
77) 1,2-Dichlorobenzene	17.86	146	1562863	10.179	ppbv	100
78) Hexachloro-1,3-Butadiene	23.42	225	1473620	10.037	ppbv	99
79) Naphthalene	22.26	128	2491437	11.401	ppbv	98
80) Naphthalene, 2-methyl-	25.01	142	1327745	15.793	ppbv	100
81) 1,2,4-Trichlorobenzene	21.99	180	1526860m	11.333	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

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MSVOA_L

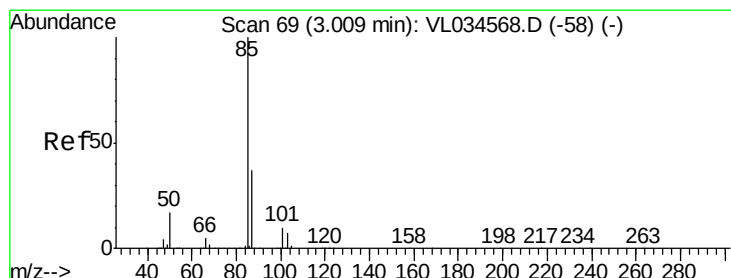
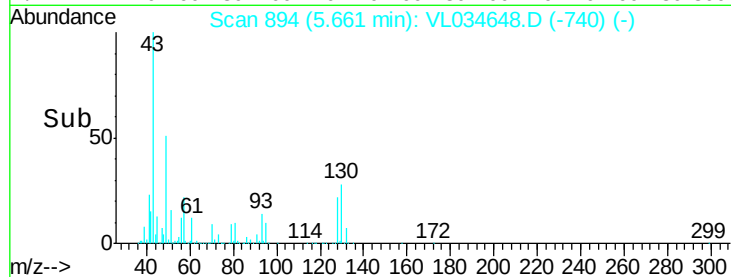
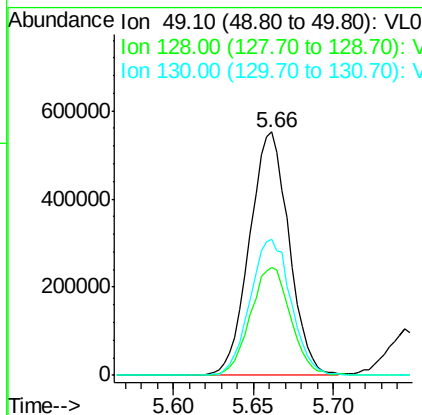
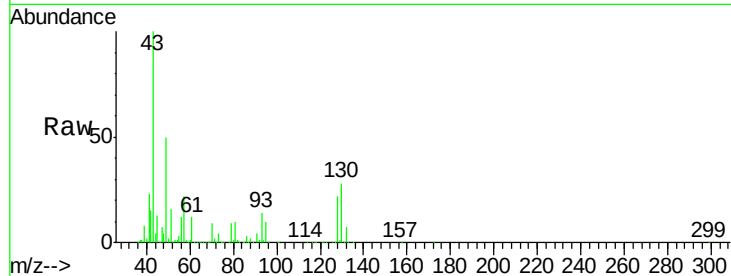
ClientSampleId :

VSTDCCC010

Tot Ion	Ratio	Lower	Upper
49	100		
128	45.1	22.7	68.1
130	58.0	28.6	85.8

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 7.092 ppbv

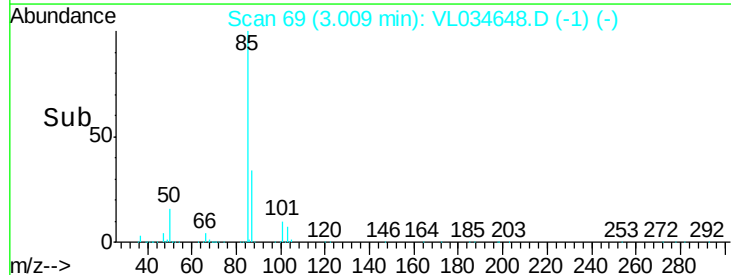
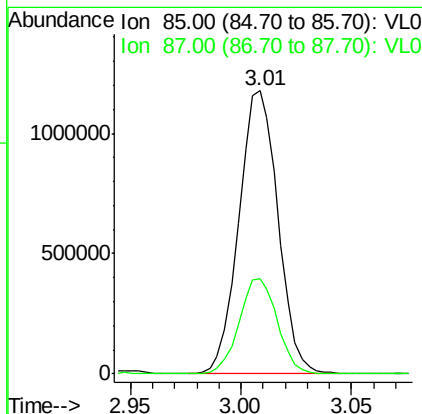
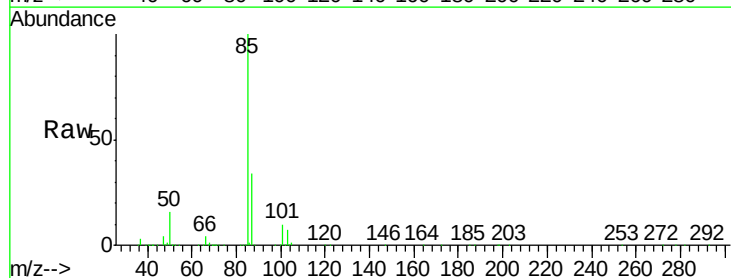
RT: 3.01 min Scan# 69

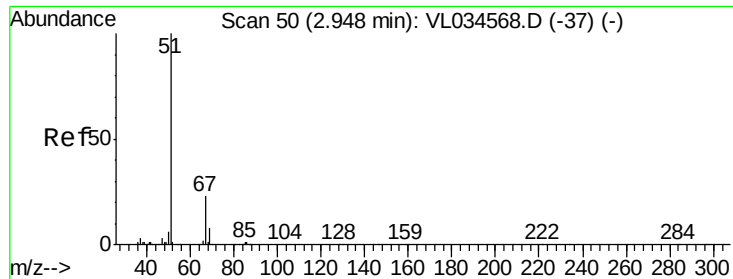
Delta R.T. -0.00 min

Lab File: VL034648.D

Acq: 19 Feb 2020 11:08

Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.6	29.5	44.3





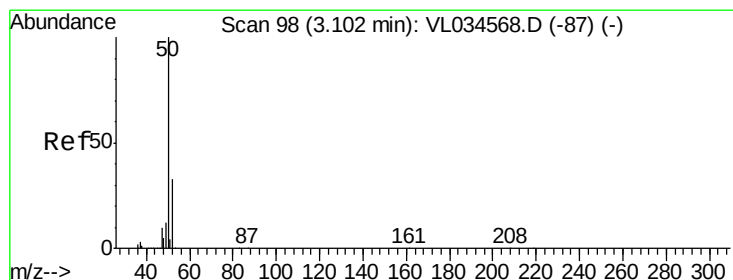
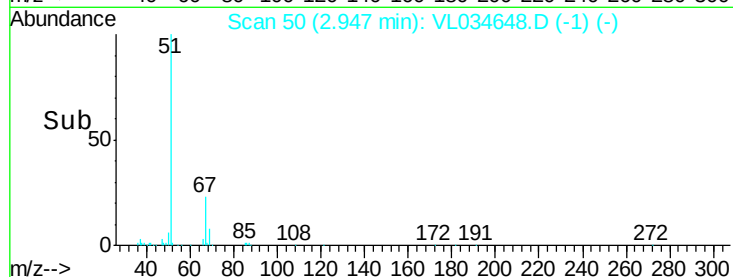
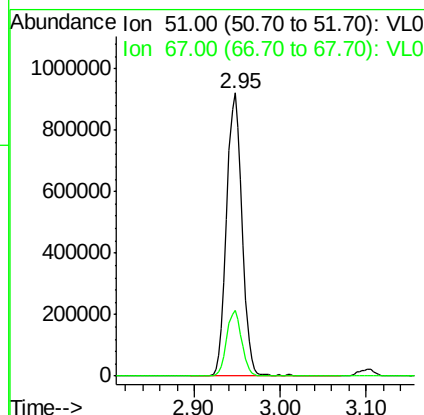
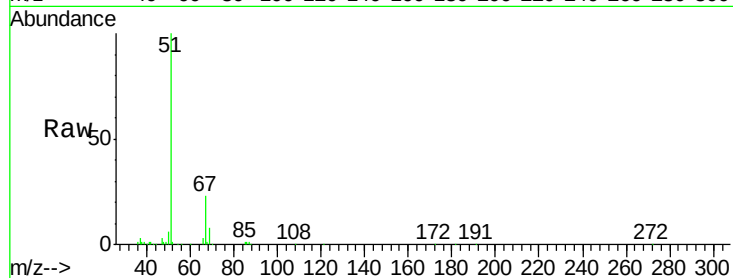
#3
Chlorodifluoromethane
Concen: 10.269 ppbv
RT: 2.95 min Scan# 50
Delta R.T. -0.00 min
Lab File: VL034648.D
Acq: 19 Feb 2020 11:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 51 Resp: 1156710
Ion Ratio Lower Upper
51 100
67 22.5 17.8 26.8

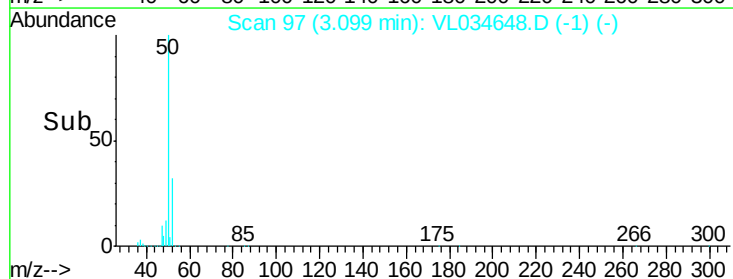
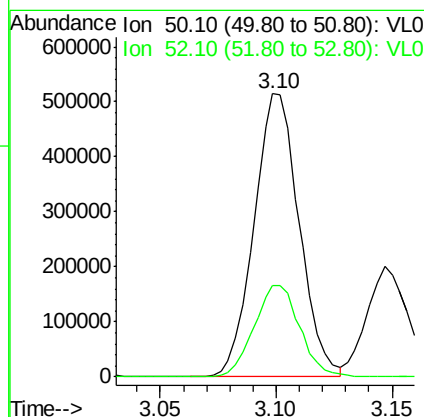
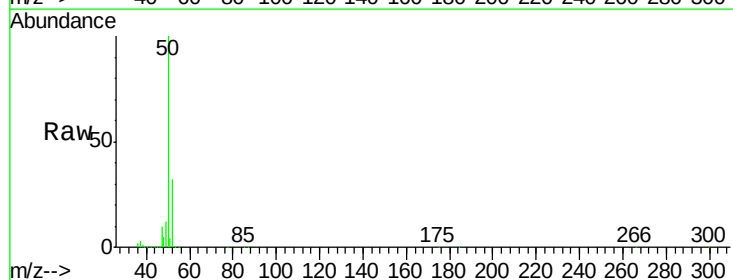
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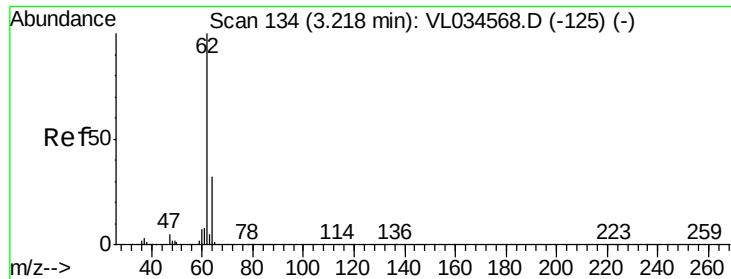
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#4
Chloromethane
Concen: 10.129 ppbv
RT: 3.10 min Scan# 97
Delta R.T. -0.00 min
Lab File: VL034648.D
Acq: 19 Feb 2020 11:08

Tgt Ion: 50 Resp: 698092
Ion Ratio Lower Upper
50 100
52 32.4 26.6 39.8





#5

Vinyl Chloride

Concen: 10.240 ppbv

RT: 3.22 min Scan# 135

Delta R.T. 0.00 min

Lab File: VL034648.D

Acq: 19 Feb 2020 11:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 674128

Ion Ratio Lower Upper

62 100

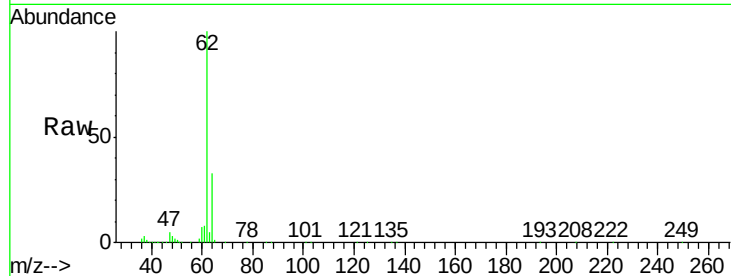
64 32.8 25.8 38.6

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.22

500000

400000

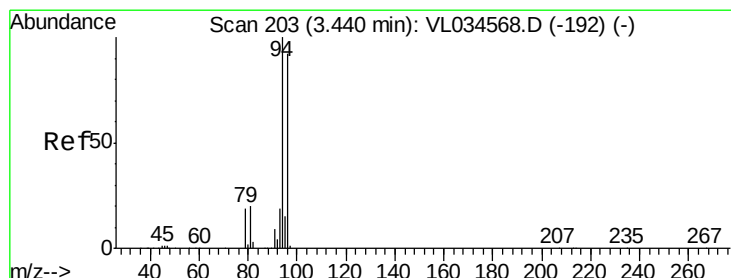
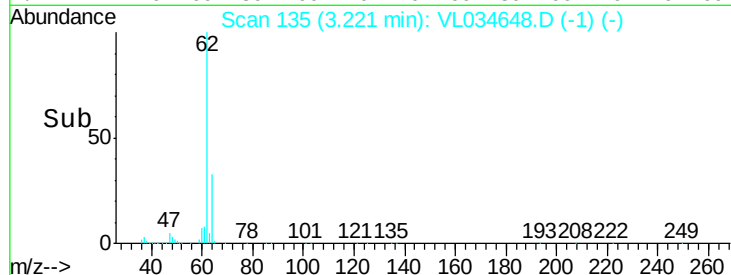
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 10.810 ppbv

RT: 3.44 min Scan# 202

Delta R.T. -0.00 min

Lab File: VL034648.D

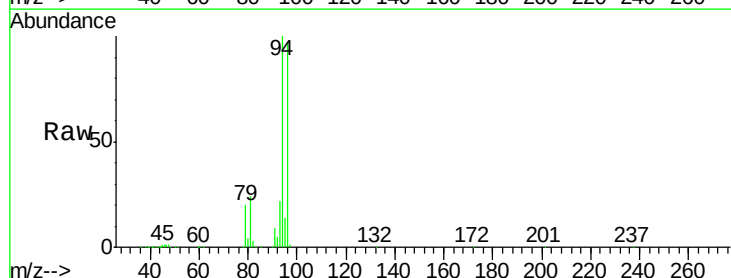
Acq: 19 Feb 2020 11:08

Tgt Ion: 94 Resp: 370136

Ion Ratio Lower Upper

94 100

96 97.4 73.8 110.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.44

300000

250000

200000

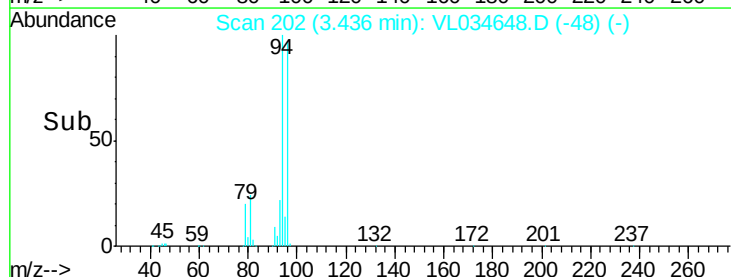
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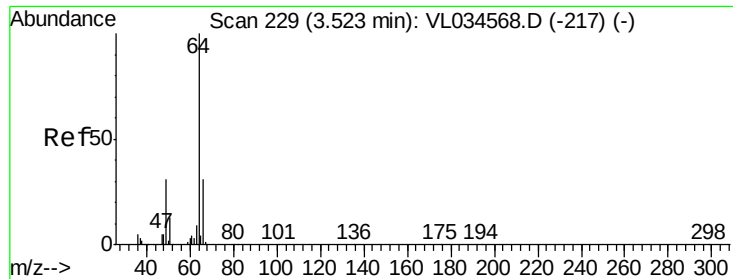
100000

50000

0

Time-->





#7

Chloroethane

Concen: 10.458 ppbv

RT: 3.52 min Scan# 229

Delta R.T. -0.00 min

Lab File: VL034648.D

Acq: 19 Feb 2020 11:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 256027

Ion Ratio Lower Upper

64 100

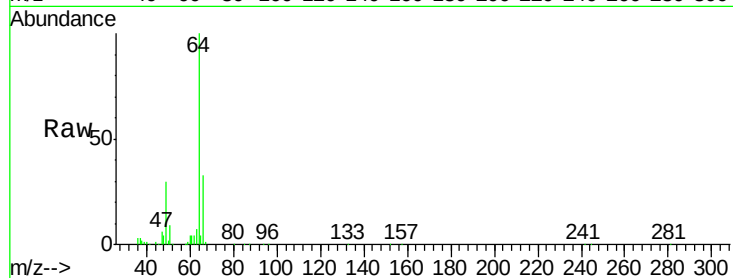
66 33.4 25.0 37.4

Manual Integrations

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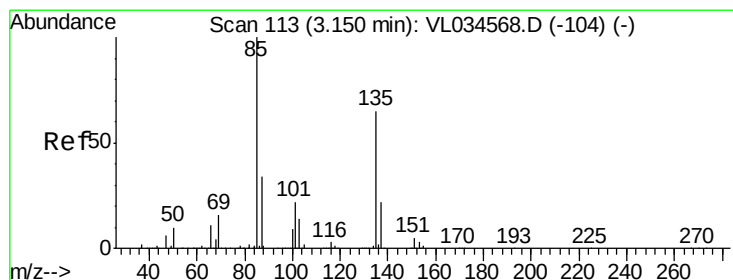
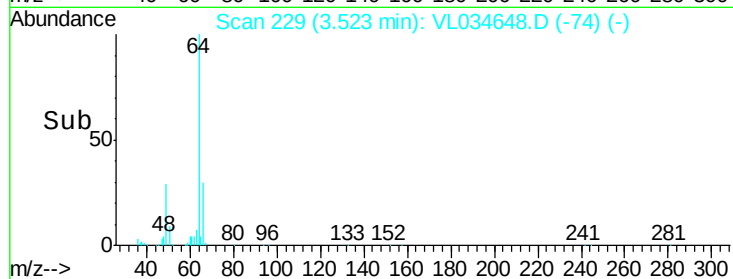
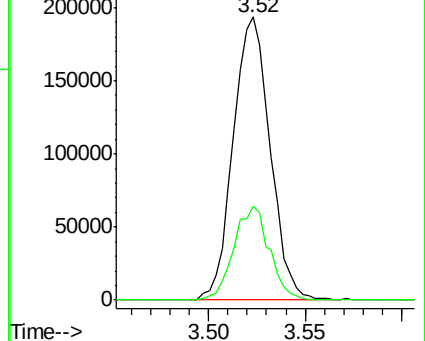
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 10.272 ppbv

RT: 3.15 min Scan# 113

Delta R.T. -0.00 min

Lab File: VL034648.D

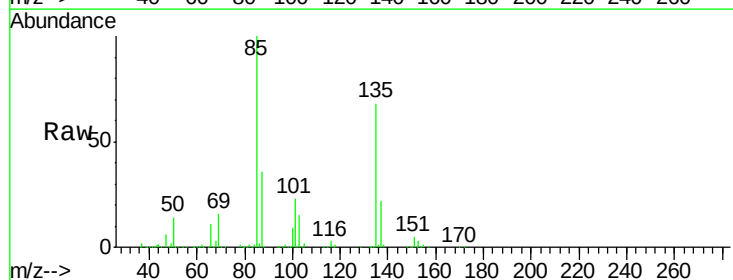
Acq: 19 Feb 2020 11:08

Tgt Ion: 85 Resp: 1648519

Ion Ratio Lower Upper

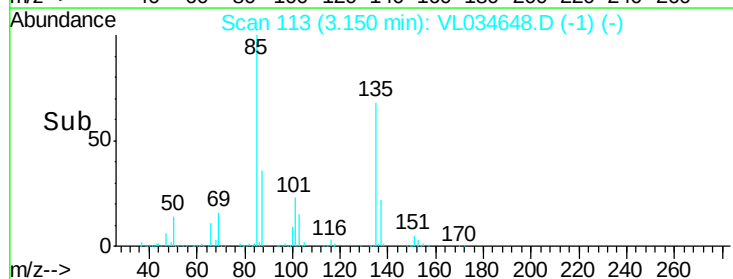
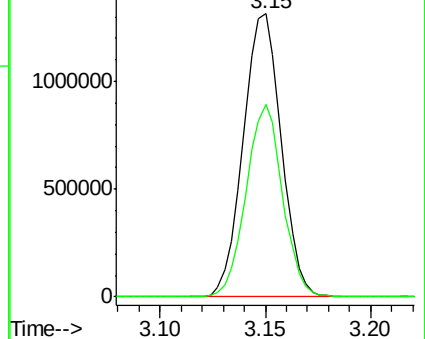
85 100

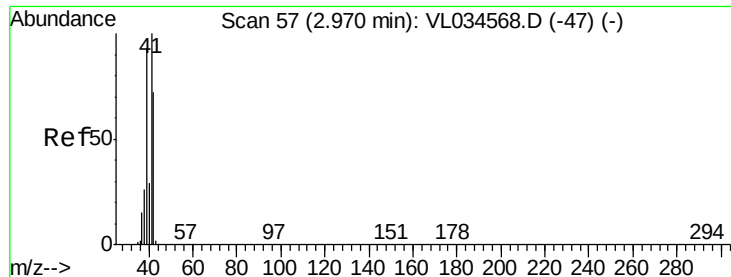
135 65.2 52.2 78.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 9.828 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.00 min

Lab File: VL034648.D

Acq: 19 Feb 2020 11:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 431056

Ion Ratio Lower Upper

41 100

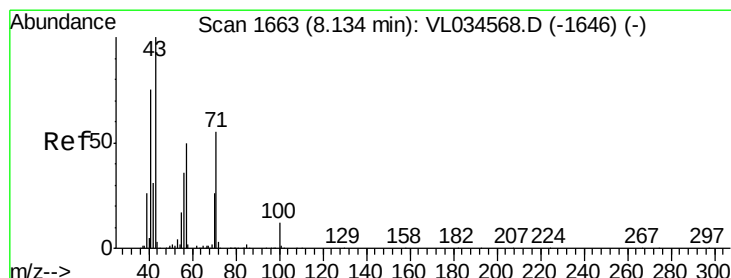
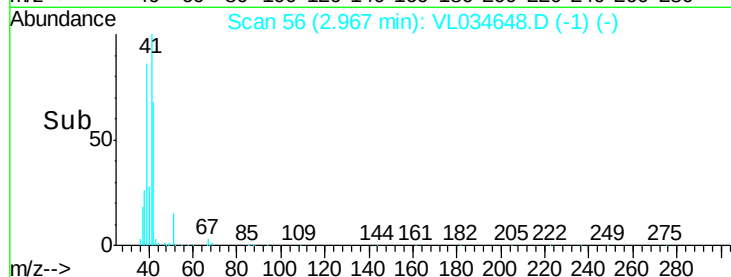
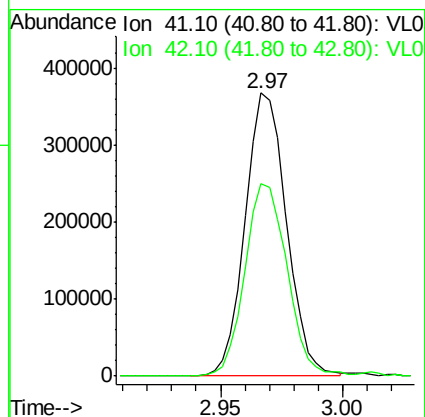
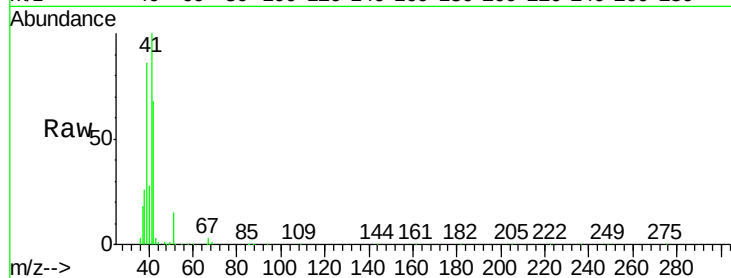
42 70.1 57.0 85.4

Manual Integrations

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#10

Heptane

Concen: 10.783 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. -0.00 min

Lab File: VL034648.D

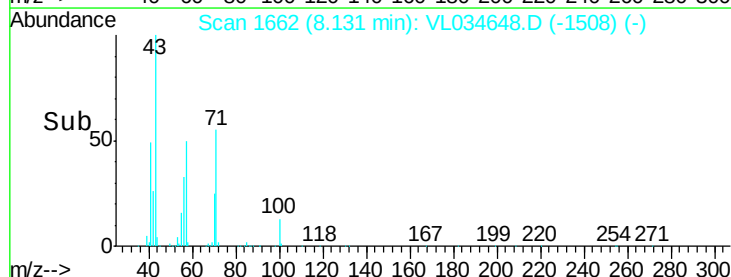
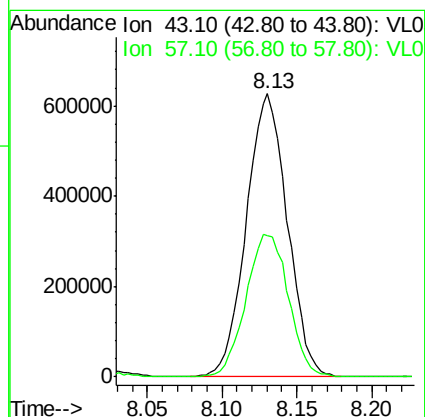
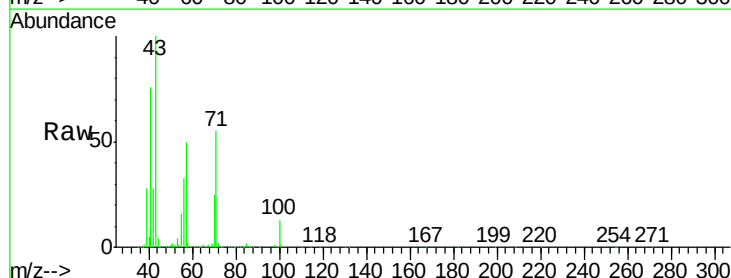
Acq: 19 Feb 2020 11:08

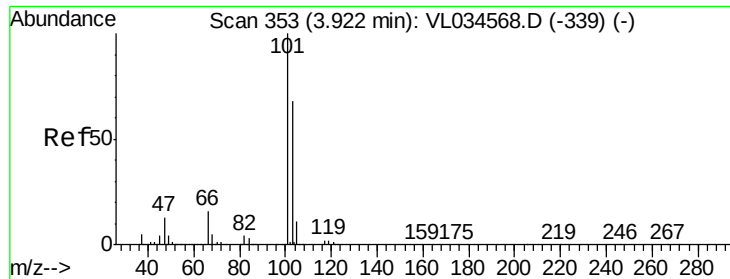
Tgt Ion: 43 Resp: 1190140

Ion Ratio Lower Upper

43 100

57 52.6 41.2 61.8





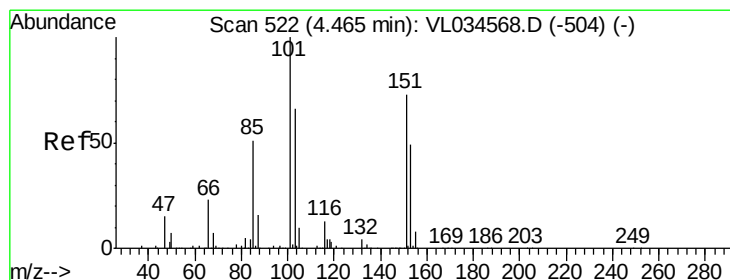
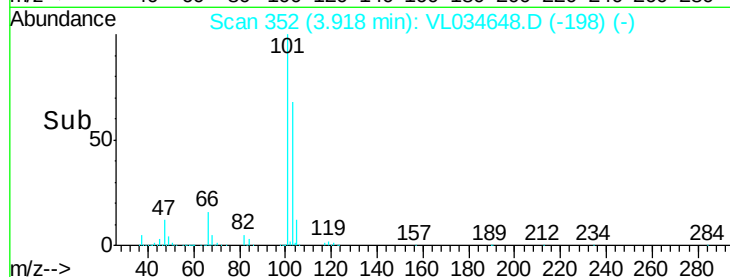
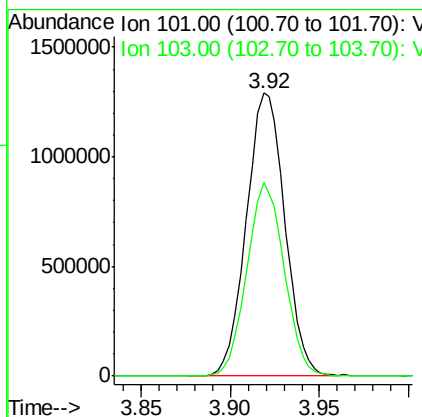
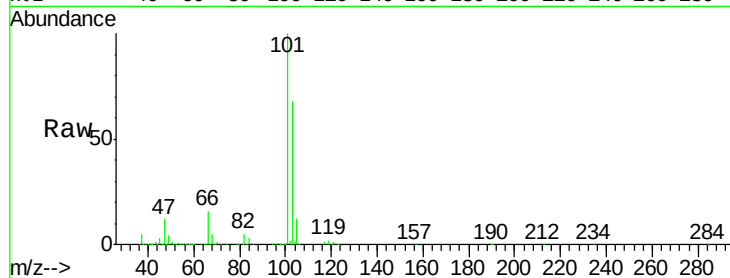
#11
 Trichlorofluoromethane
 Concen: 10.465 ppbv
 RT: 3.92 min Scan# 352
 Delta R.T. -0.00 min
 Lab File: VL034648.D
 Acq: 19 Feb 2020 11:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:101 Resp: 1952003
 Ion Ratio Lower Upper
 101 100
 103 68.5 54.4 81.6

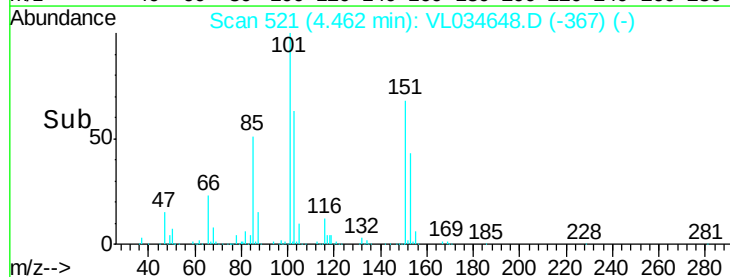
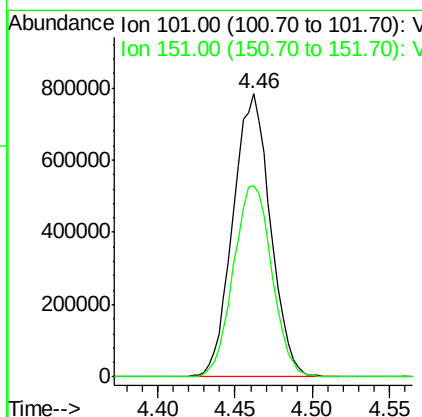
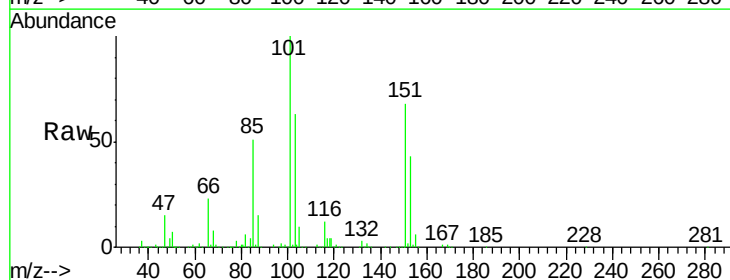
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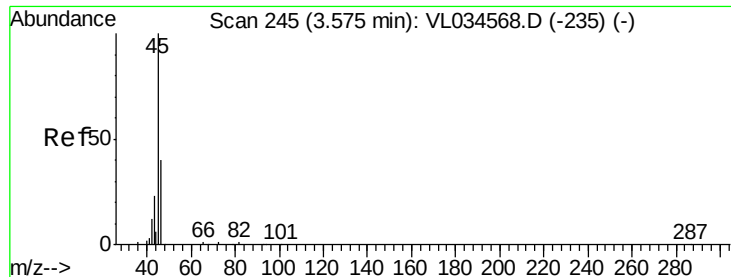
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 10.793 ppbv
 RT: 4.46 min Scan# 521
 Delta R.T. -0.00 min
 Lab File: VL034648.D
 Acq: 19 Feb 2020 11:08

Tgt Ion:101 Resp: 1313491
 Ion Ratio Lower Upper
 101 100
 151 69.8 57.0 85.6





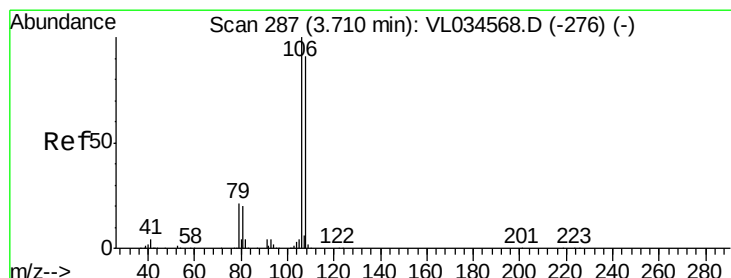
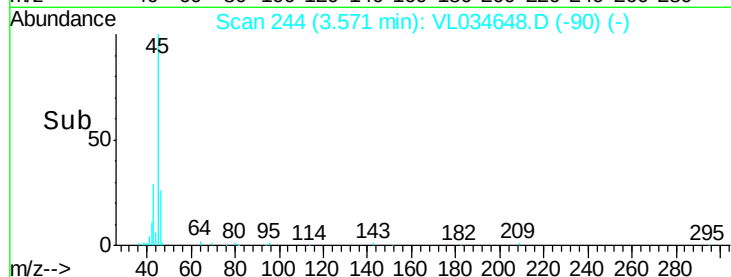
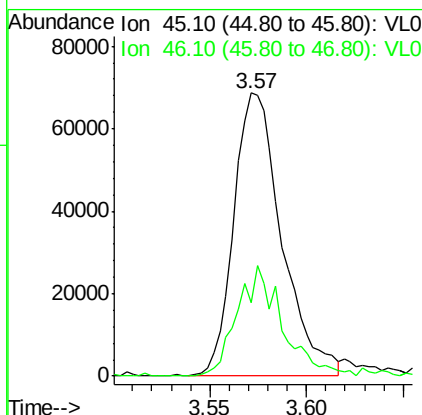
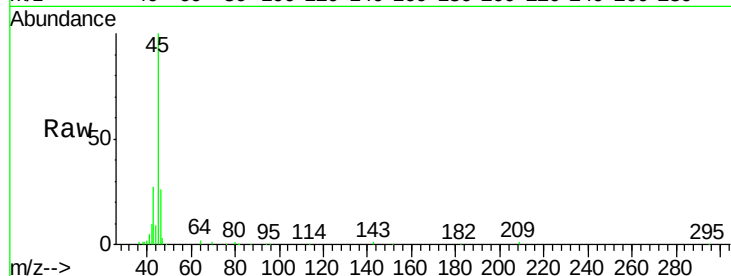
#13
Ethanol
Concen: 10.084 ppbv
RT: 3.57 min Scan# 244
Delta R.T. -0.00 min
Lab File: VL034648.D
Acq: 19 Feb 2020 11:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	45	Resp	118467
Ion Ratio	100	Lower	Upper
46	38.3	14.8	59.2

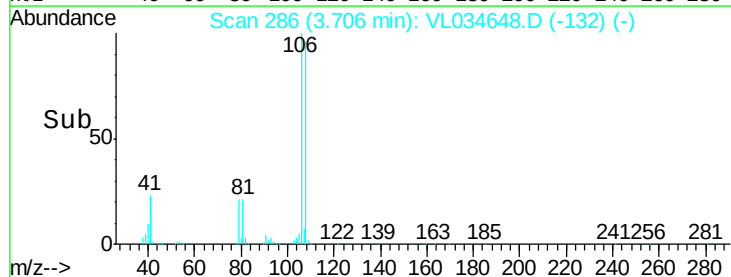
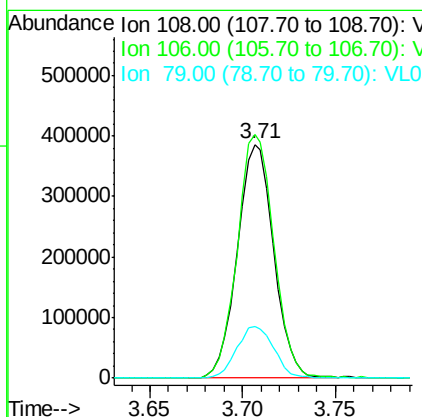
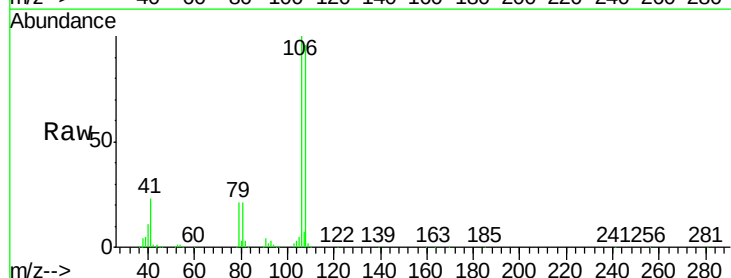
Manual Integrations
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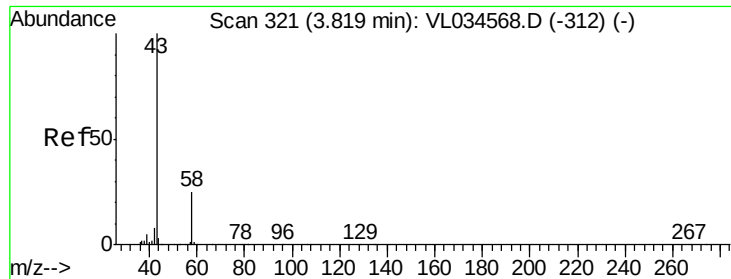
MMDadoda
2/21/2020 3:23:54 PM



#14
Bromoethene
Concen: 11.010 ppbv
RT: 3.71 min Scan# 286
Delta R.T. -0.00 min
Lab File: VL034648.D
Acq: 19 Feb 2020 11:08

Tgt Ion	108	Resp	525608
Ion Ratio	100	Lower	Upper
106	105.4	84.6	127.0
79	23.2	18.2	27.2





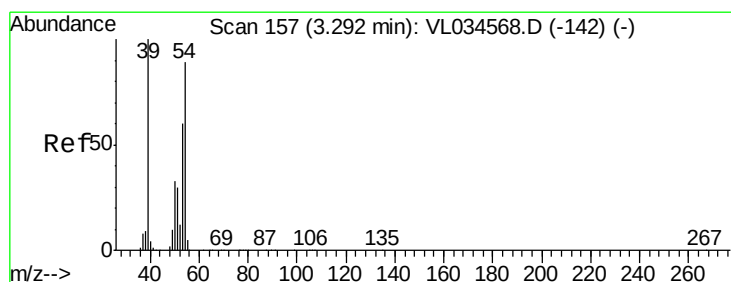
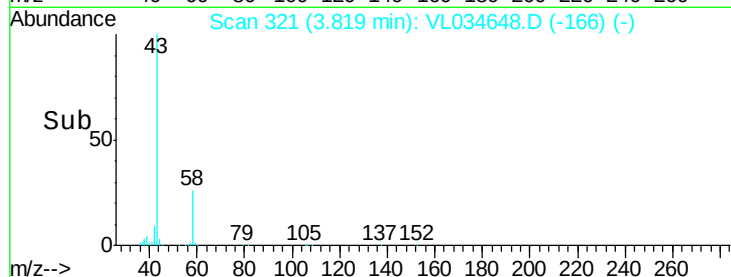
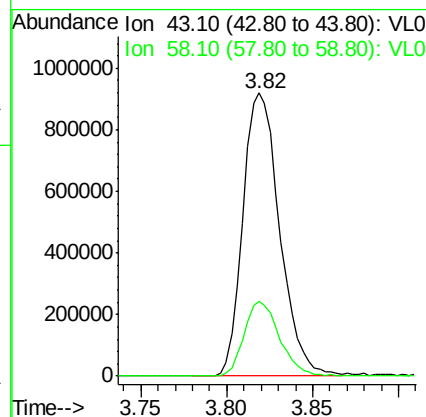
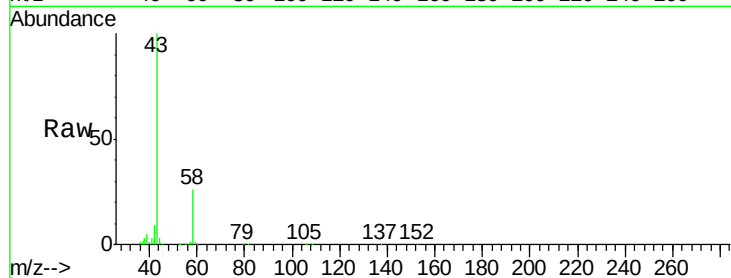
#15
Acetone
Concen: 9.960 ppbv
RT: 3.82 min Scan# 321
Delta R.T. -0.00 min
Lab File: VL034648.D
Acq: 19 Feb 2020 11:08

Instrument :
MSVOA_L
ClientSampled :
VSTDCCC010

Tot Ion: 43 Resp: 1364575
Ion Ratio Lower Upper
43 100
58 25.9 20.3 30.5

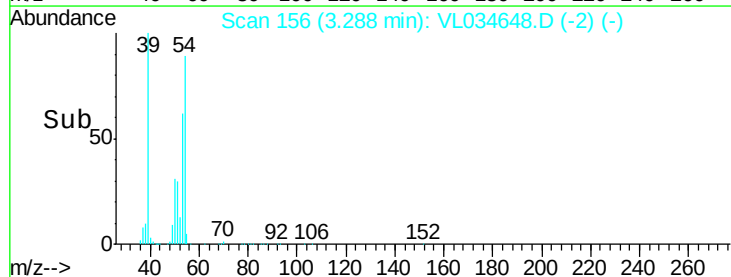
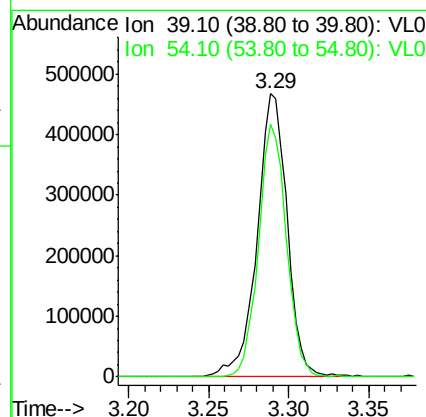
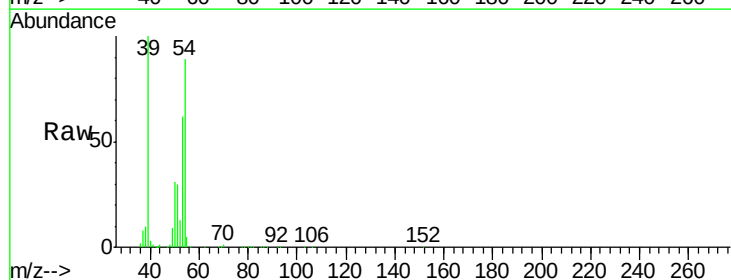
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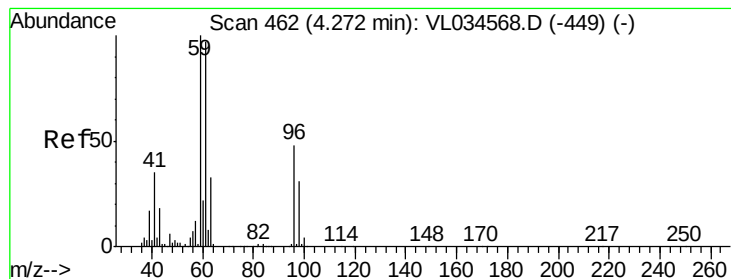
MMDadoda
2/21/2020 3:23:54 PM



#16
1,3-Butadiene
Concen: 11.134 ppbv
RT: 3.29 min Scan# 156
Delta R.T. -0.00 min
Lab File: VL034648.D
Acq: 19 Feb 2020 11:08

Tgt Ion: 39 Resp: 605770
Ion Ratio Lower Upper
39 100
54 83.1 66.7 100.1





#17

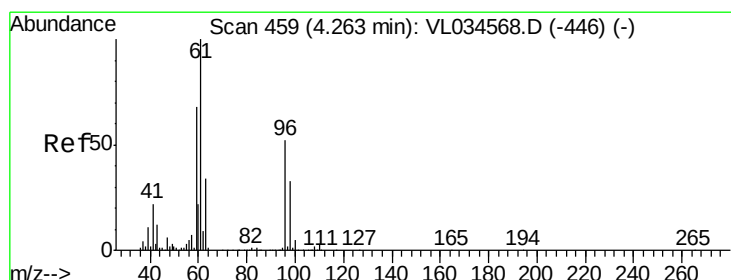
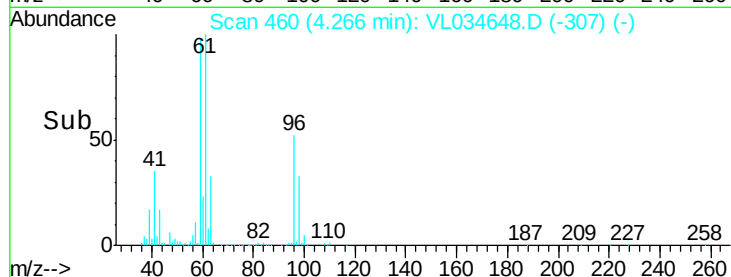
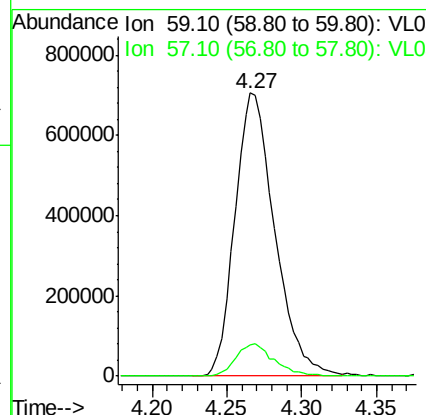
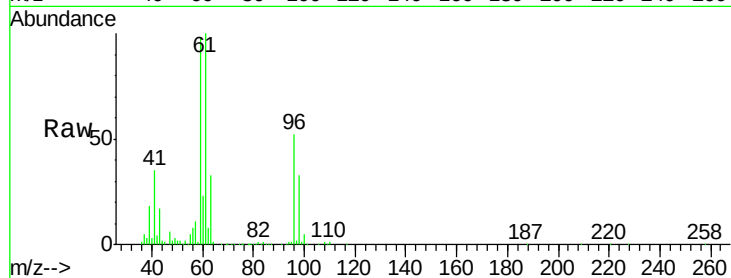
tert-Butyl alcohol
Concen: 12.978 ppbv
RT: 4.27 min Scan# 460
Delta R.T. -0.01 min
Lab File: VL034648.D
Acq: 19 Feb 2020 11:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 59 Resp: 1307634
Ion Ratio Lower Upper
59 100
57 11.1 8.7 13.1

Manual Integrations
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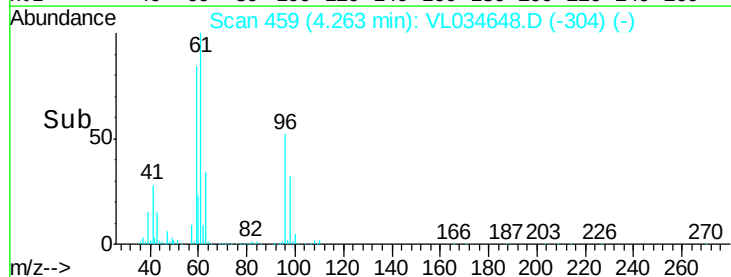
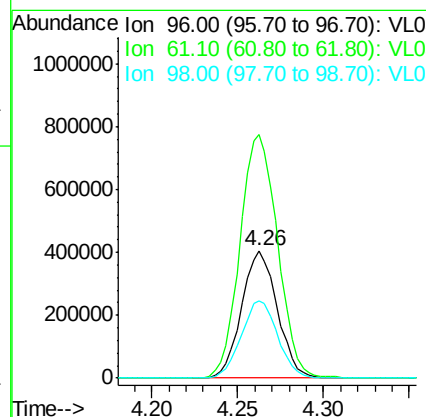
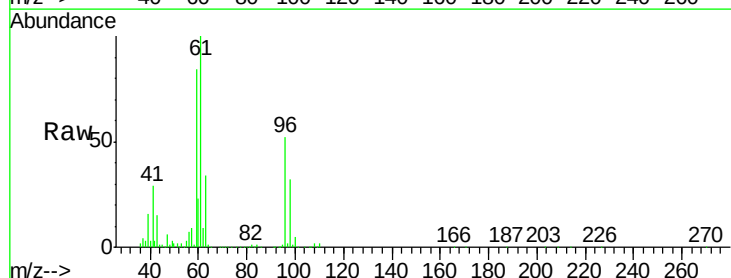
MMDadoda
2/21/2020 3:23:54 PM

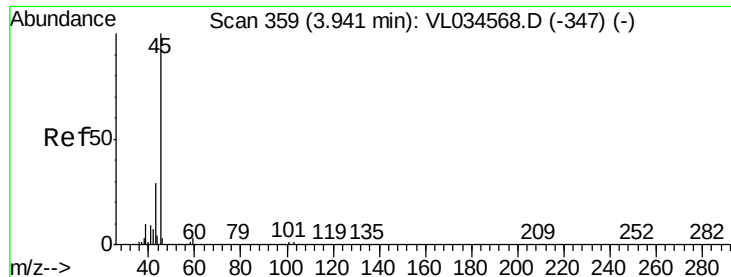


#18

1,1-Dichloroethene
Concen: 11.344 ppbv
RT: 4.26 min Scan# 459
Delta R.T. -0.00 min
Lab File: VL034648.D
Acq: 19 Feb 2020 11:08

Tgt Ion: 96 Resp: 582790
Ion Ratio Lower Upper
96 100
61 191.3 154.5 231.7
98 61.1 50.3 75.5





#19

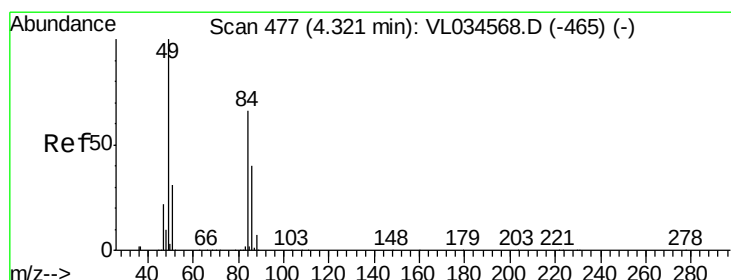
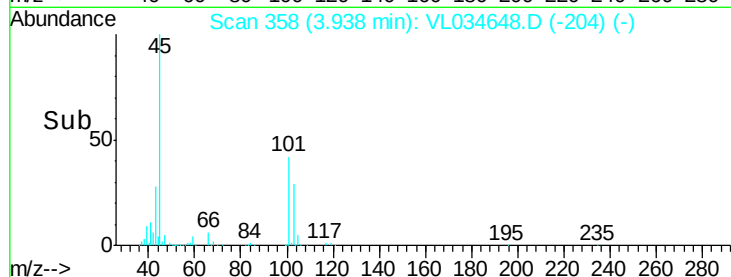
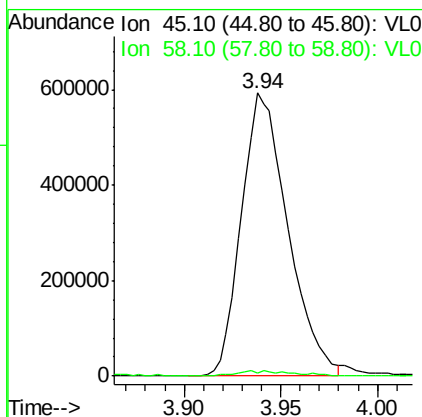
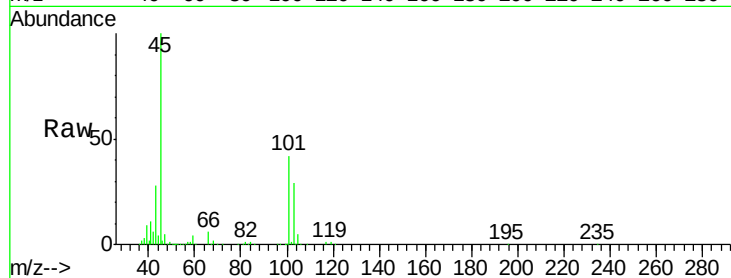
Isopropyl Alcohol
 Concen: 12.403 ppbv
 RT: 3.94 min Scan# 358
 Delta R.T. -0.00 min
 Lab File: VL034648.D
 Acq: 19 Feb 2020 11:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
45	100		
58	2.2	1.7	2.5

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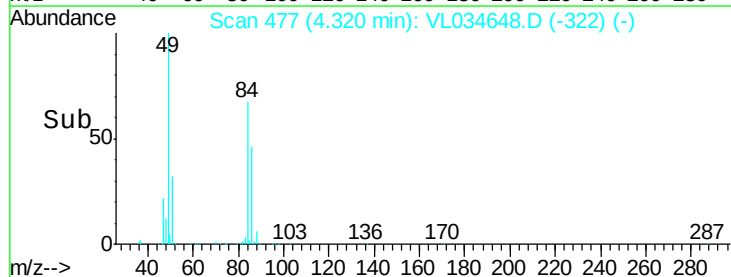
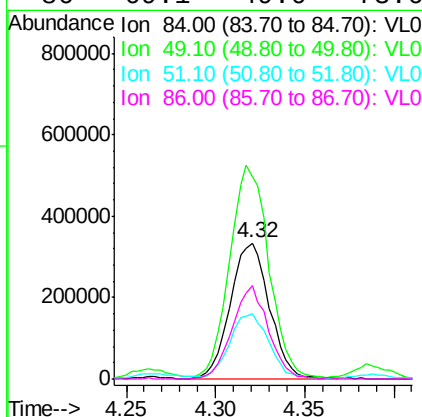
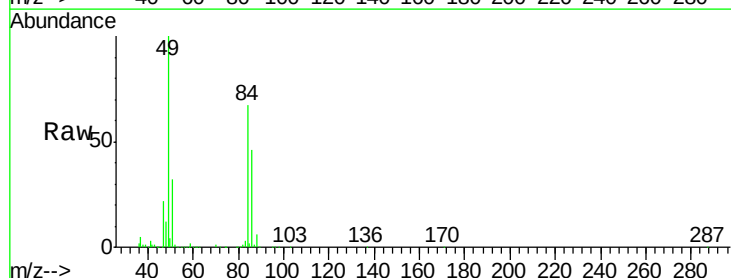
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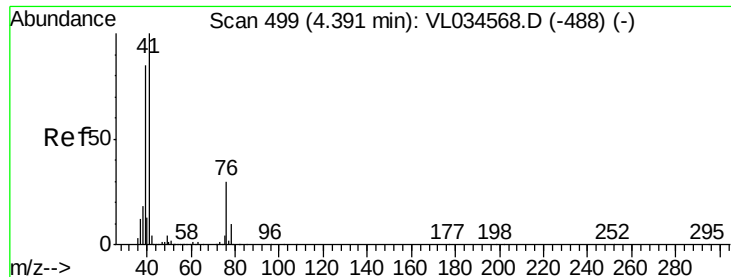


#20

Methylene Chloride
 Concen: 9.733 ppbv
 RT: 4.32 min Scan# 477
 Delta R.T. -0.00 min
 Lab File: VL034648.D
 Acq: 19 Feb 2020 11:08

Tgt Ion	Ratio	Lower	Upper
84	100		
49	147.8	122.4	183.6
51	47.0	38.6	57.8
86	69.1	49.0	73.6





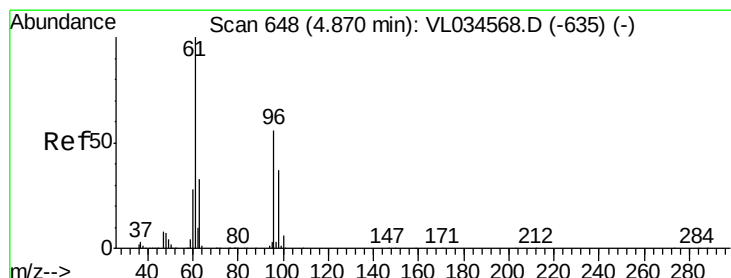
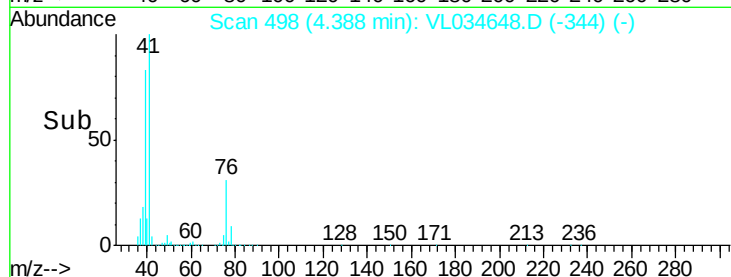
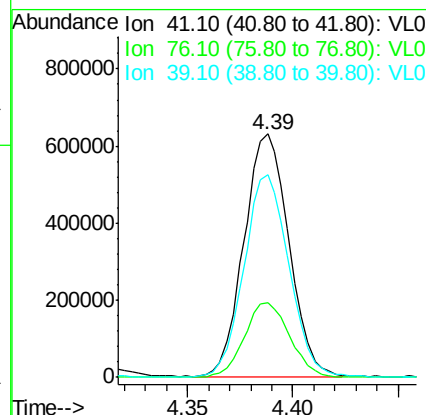
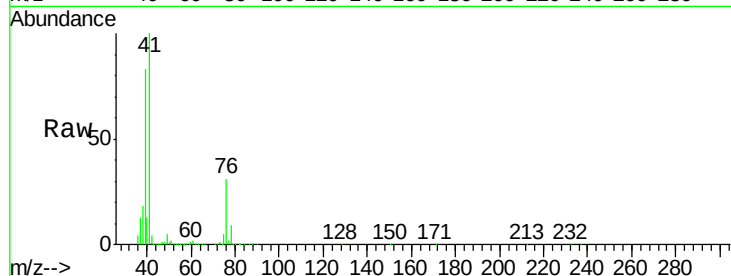
#21
Allvl Chloride
Concen: 10.930 ppbv
RT: 4.39 min Scan# 498
Delta R.T. -0.00 min
Lab File: VL034648.D
Acq: 19 Feb 2020 11:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	31.2	24.2	36.2
39	84.1	68.3	102.5

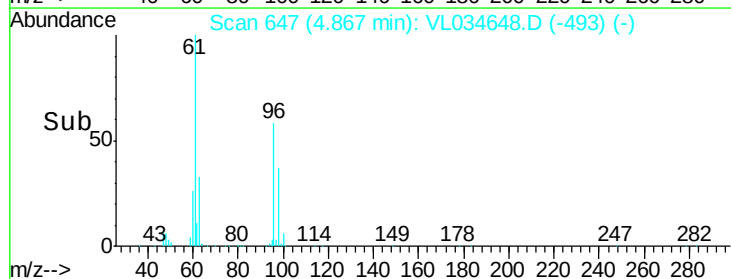
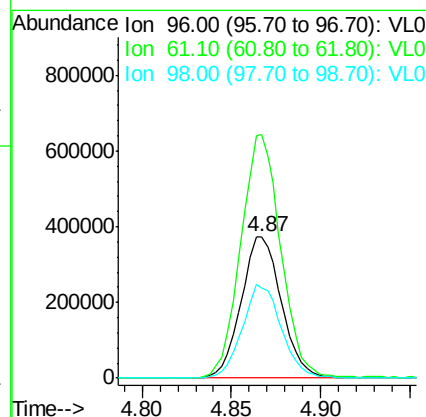
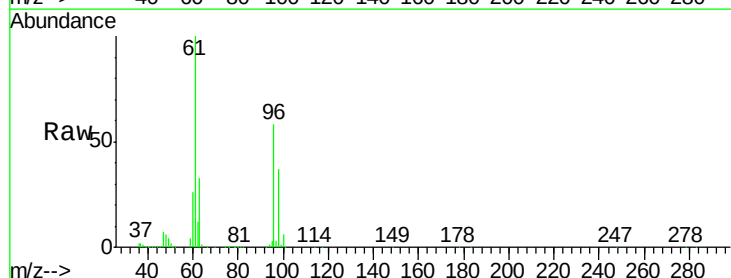
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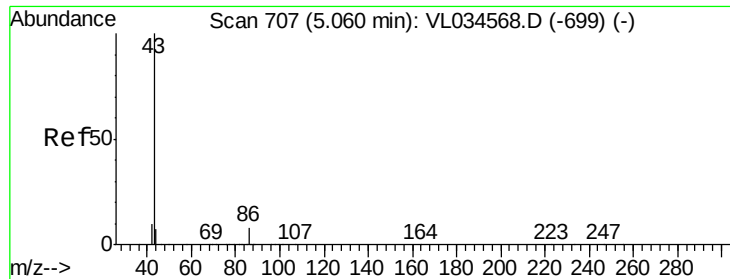
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#22
trans-1,2-Dichloroethene
Concen: 10.916 ppbv
RT: 4.87 min Scan# 647
Delta R.T. -0.00 min
Lab File: VL034648.D
Acq: 19 Feb 2020 11:08

Tgt Ion	Ratio	Lower	Upper
96	100		
61	172.3	141.9	212.9
98	63.7	53.1	79.7





#23

Vinyl Acetate

Concen: 10.552 ppbv

RT: 5.06 min Scan# 707

Delta R.T. -0.00 min

Lab File: VL034648.D

Acq: 19 Feb 2020 11:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1649427

Ion Ratio Lower Upper

43 100

86 7.7 5.9 8.9

42 11.5 8.8 13.2

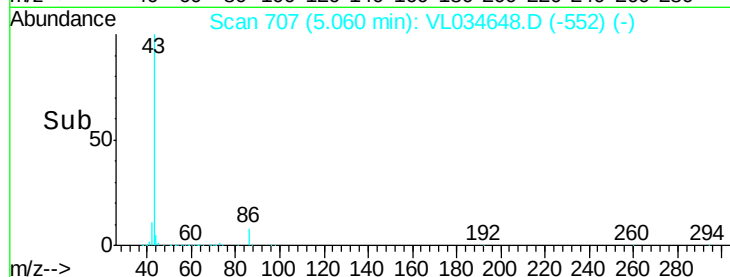
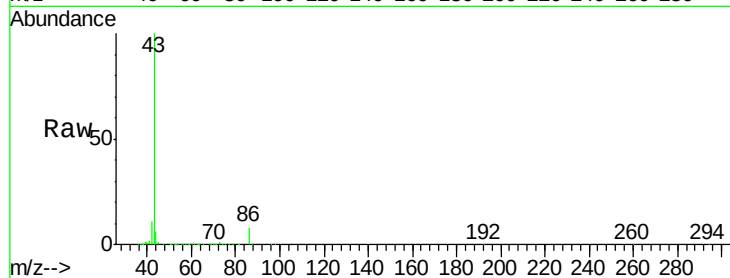
44 5.8 5.0 7.6

Manual Integrations

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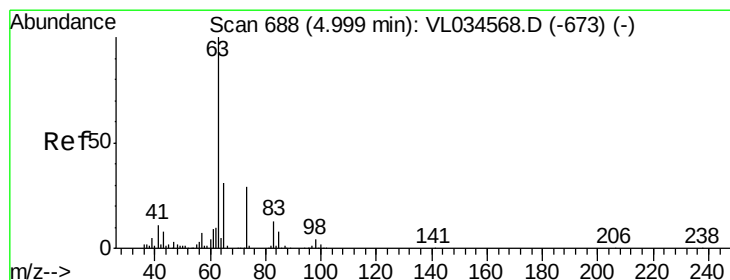
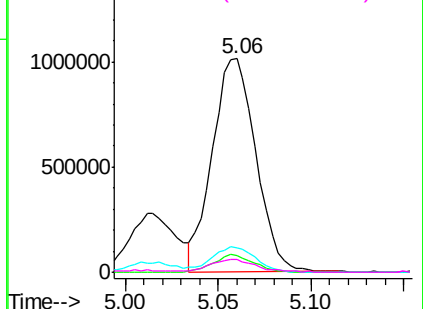


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 10.439 ppbv

RT: 4.99 min Scan# 686

Delta R.T. -0.01 min

Lab File: VL034648.D

Acq: 19 Feb 2020 11:08

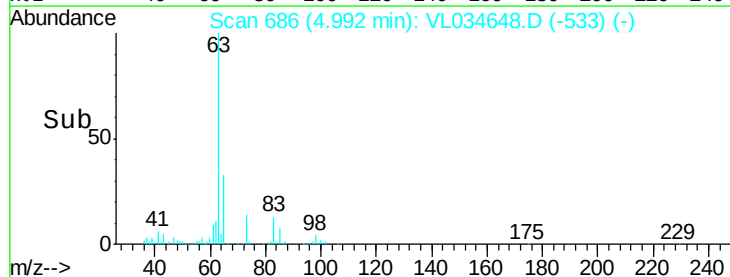
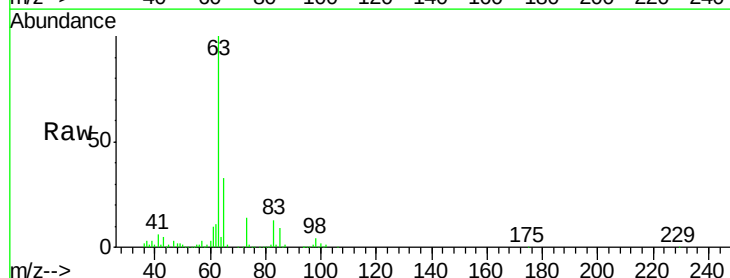
Tgt Ion: 63 Resp: 1362387

Ion Ratio Lower Upper

63 100

98 3.5 2.1 6.2

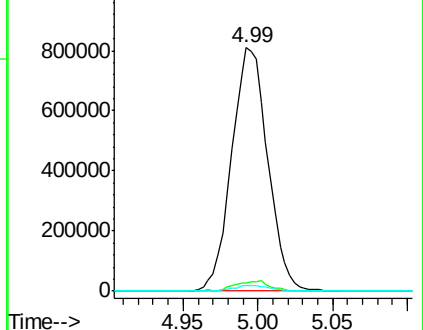
100 2.3 1.1 3.5

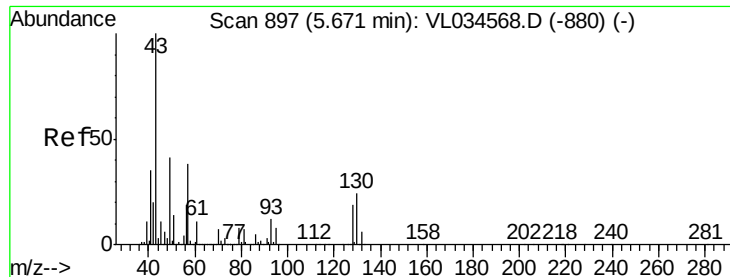


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 10.220 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL034648.D

Acq: 19 Feb 2020 11:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 2266833

Ion Ratio Lower Upper

43 100

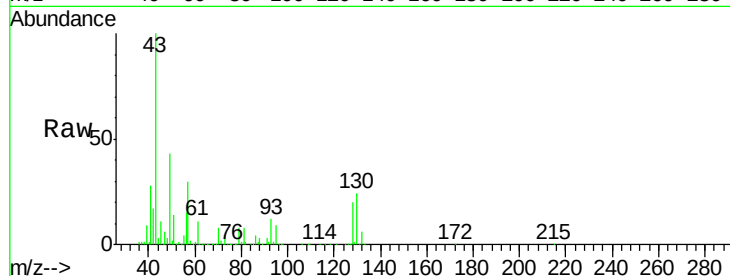
45 10.3 8.5 12.7

61 9.9 7.8 11.6

70 7.3 5.8 8.8

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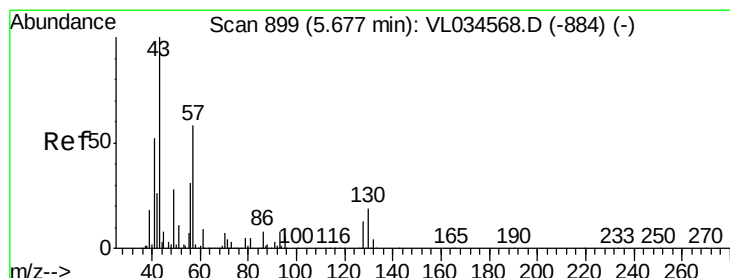
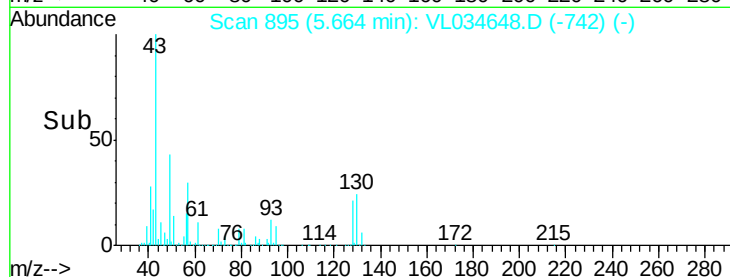
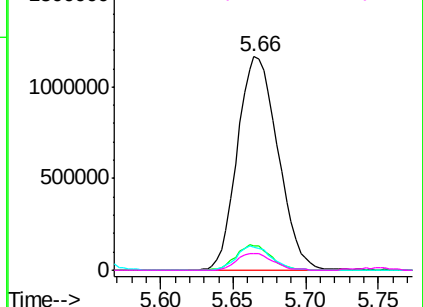


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 10.294 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.00 min

Lab File: VL034648.D

Acq: 19 Feb 2020 11:08

Tgt Ion: 57 Resp: 956377

Ion Ratio Lower Upper

57 100

41 96.2 76.2 114.2

43 237.1 189.9 284.9

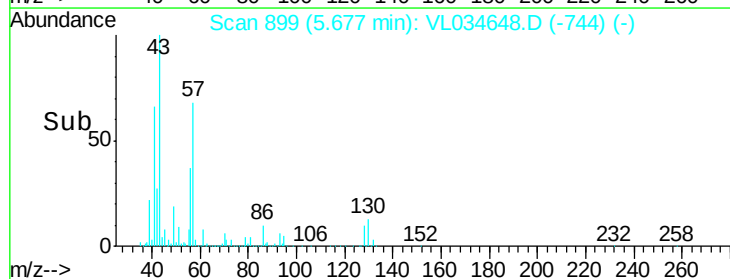
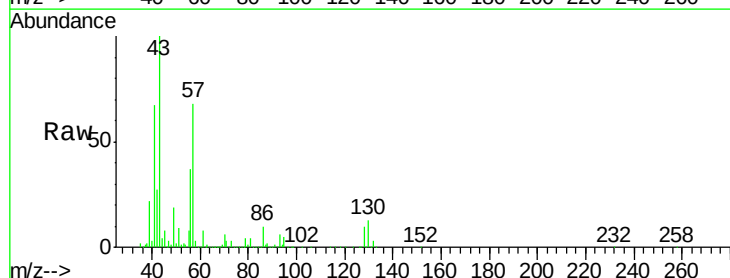
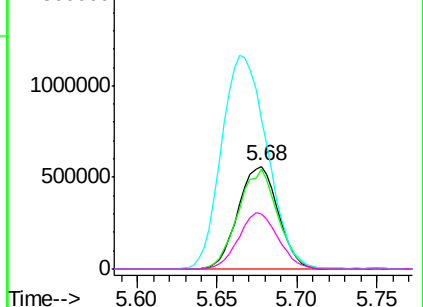
56 53.9 43.6 65.4

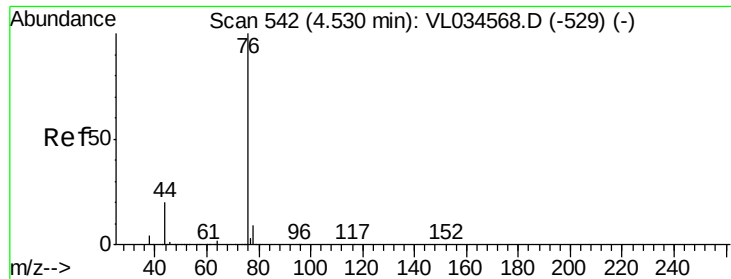
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 11.879 ppbv

RT: 4.53 min Scan# 541

Delta R.T. -0.00 min

Lab File: VL034648.D

Acq: 19 Feb 2020 11:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1489190

Ion Ratio Lower Upper

76 100

44 20.2 16.3 24.5

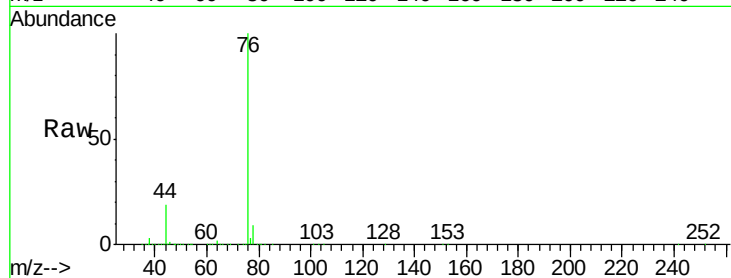
78 9.3 7.4 11.2

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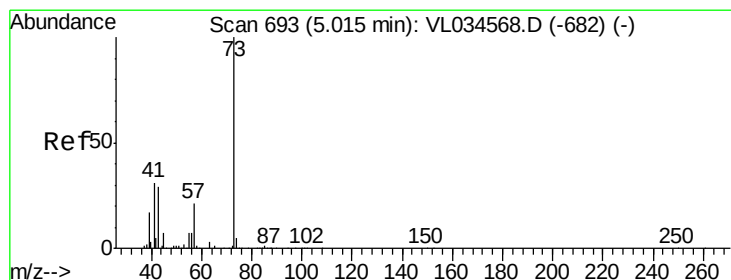
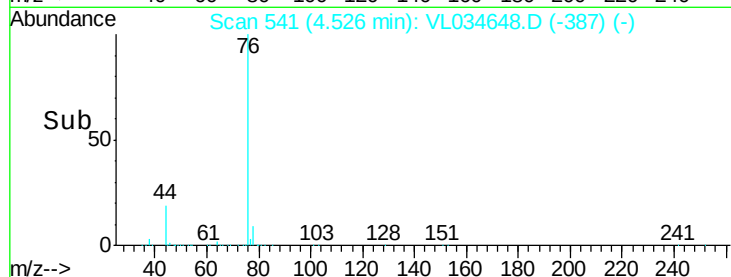
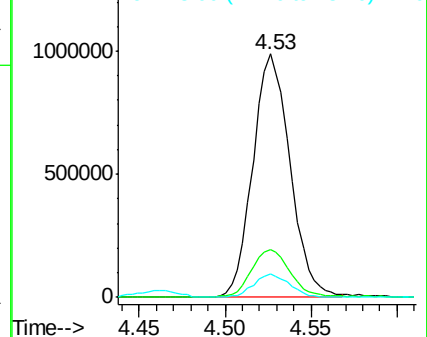
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Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.706 ppbv

RT: 5.01 min Scan# 693

Delta R.T. -0.00 min

Lab File: VL034648.D

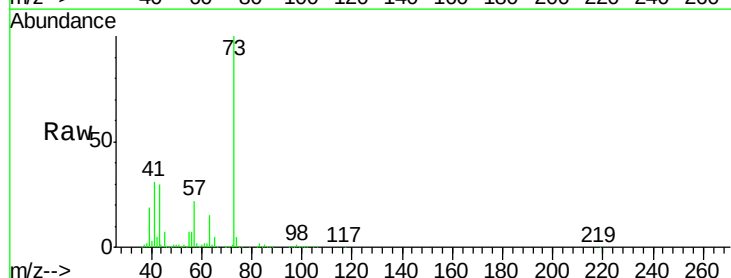
Acq: 19 Feb 2020 11:08

Tgt Ion: 73 Resp: 1696332

Ion Ratio Lower Upper

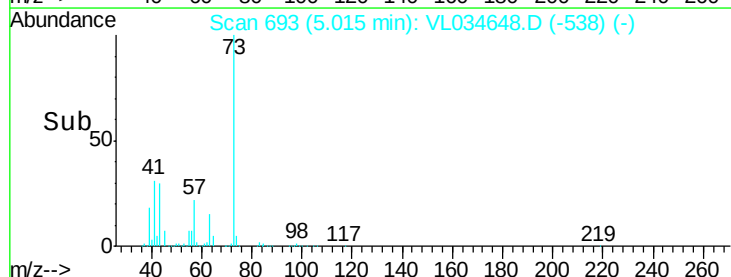
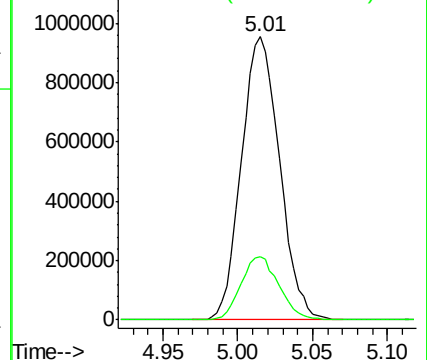
73 100

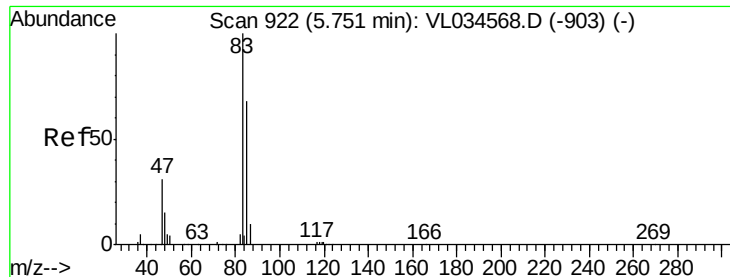
57 22.3 17.9 26.9



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





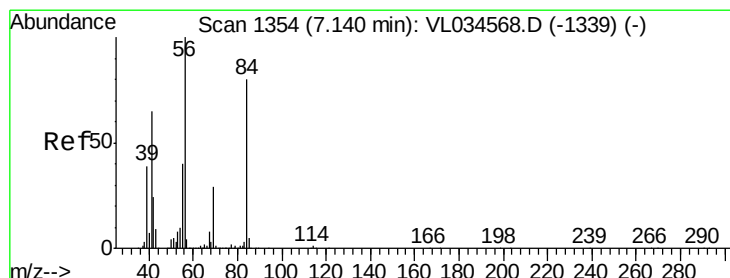
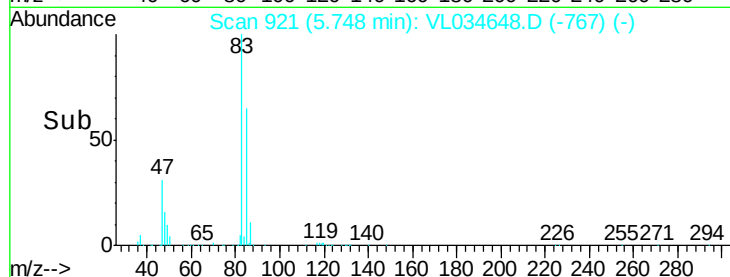
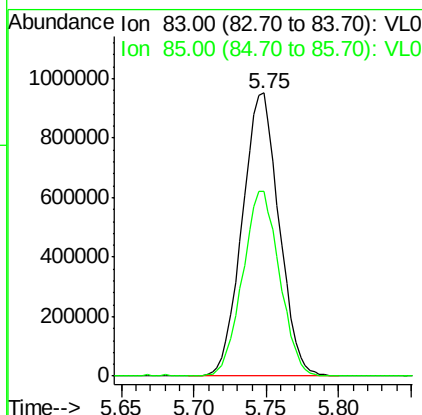
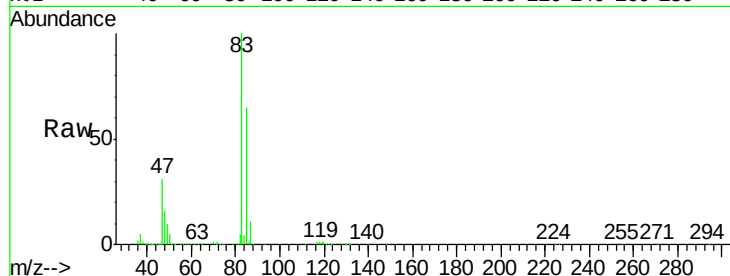
#29
Chloroform
Concen: 10.246 ppbv
RT: 5.75 min Scan# 921
Delta R.T. -0.00 min
Lab File: VL034648.D
Acq: 19 Feb 2020 11:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 1683159
Ion Ratio Lower Upper
83 100
85 65.3 54.0 81.0

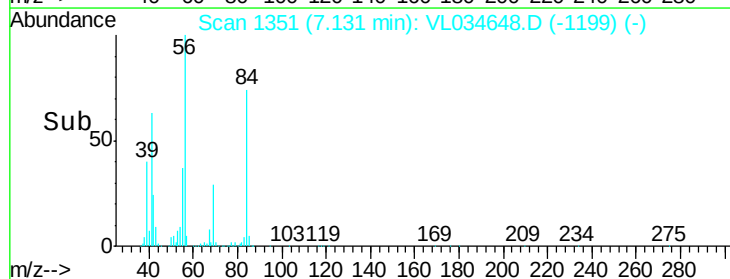
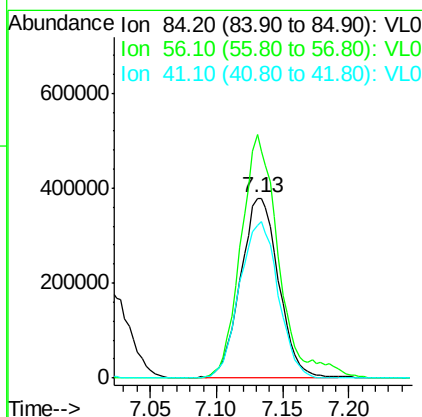
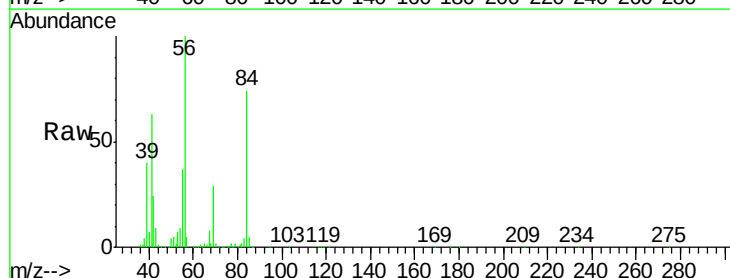
Manual Integrations
APPROVED

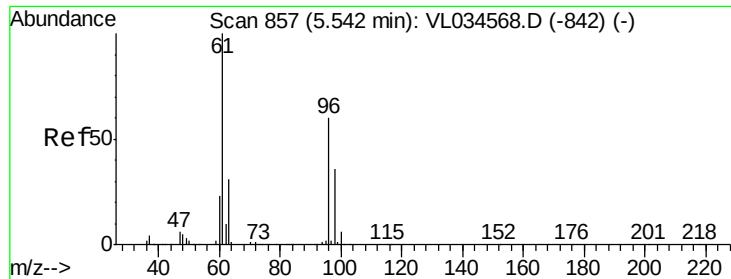
MMDadoda
2/21/2020 3:23:54 PM



#30
Cyclohexane
Concen: 11.015 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. -0.01 min
Lab File: VL034648.D
Acq: 19 Feb 2020 11:08

Tgt Ion: 84 Resp: 758332
Ion Ratio Lower Upper
84 100
56 135.1 110.5 165.7
41 88.4 71.9 107.9





#31

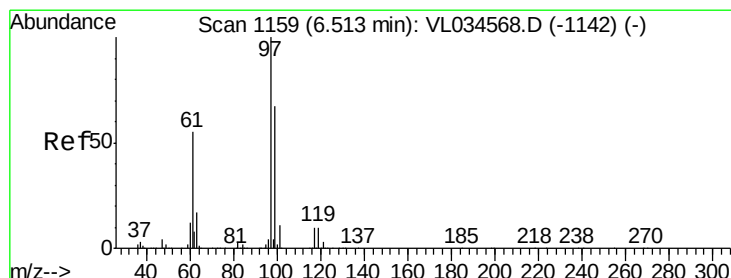
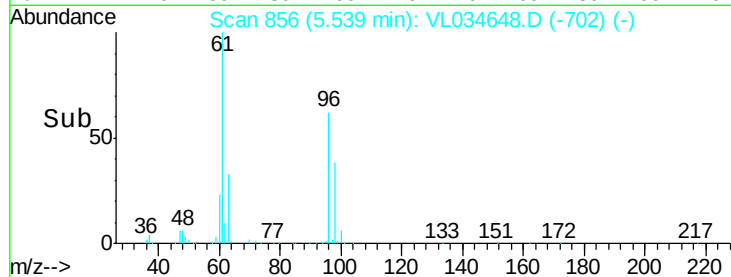
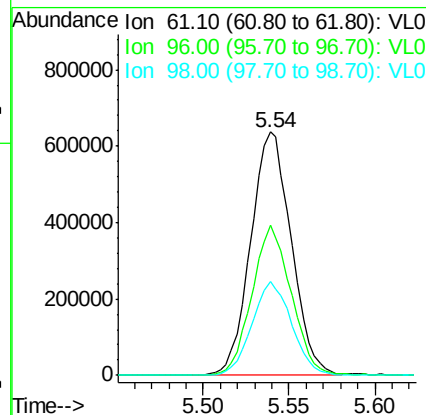
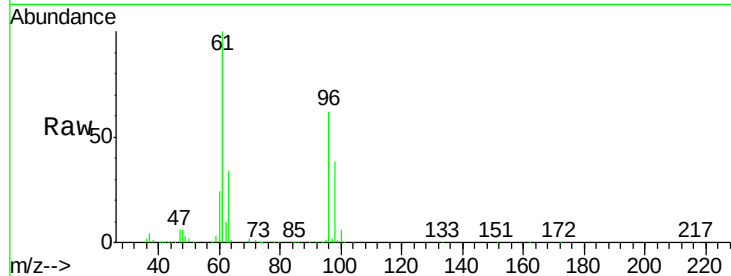
cis-1,2-Dichloroethene
Concen: 10.783 ppbv
RT: 5.54 min Scan# 856
Delta R.T. -0.00 min
Lab File: VL034648.D
Acq: 19 Feb 2020 11:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	61.7	48.0	72.0
98	38.4	28.6	43.0

Manual Integrations
APPROVED

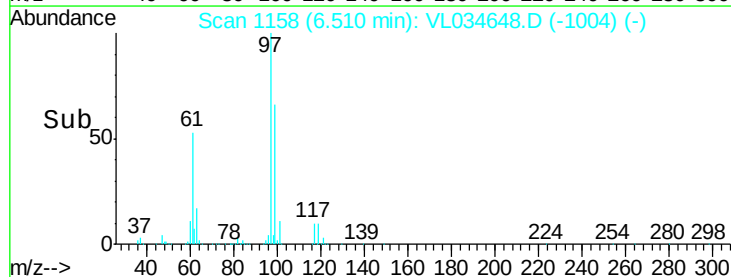
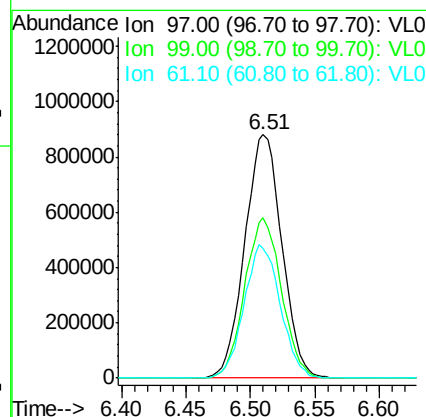
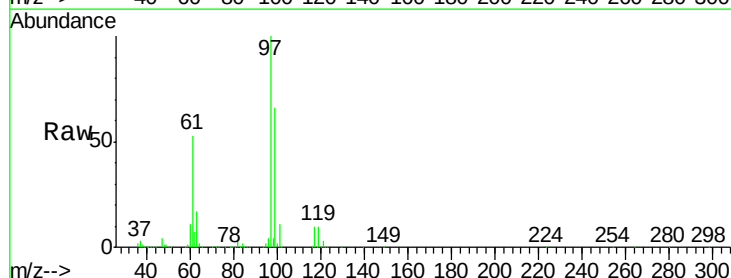
MMDadoda
2/21/2020 3:23:54 PM

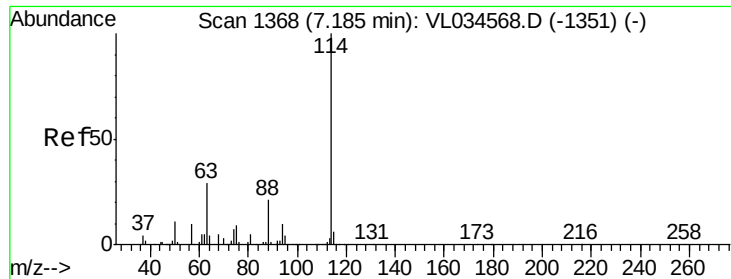


#32

1,1,1-Trichloroethane
Concen: 10.015 ppbv
RT: 6.51 min Scan# 1158
Delta R.T. -0.00 min
Lab File: VL034648.D
Acq: 19 Feb 2020 11:08

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.1	52.2	78.2
61	53.6	43.0	64.4





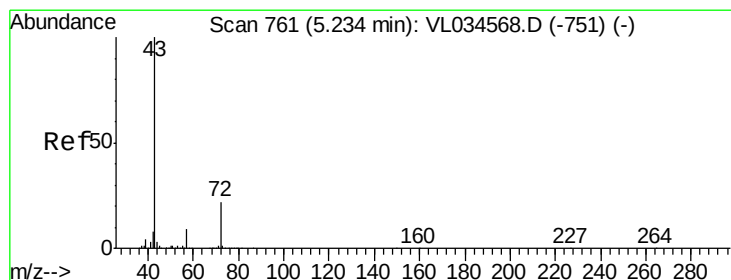
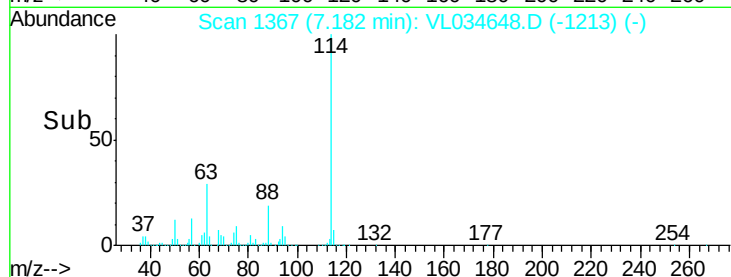
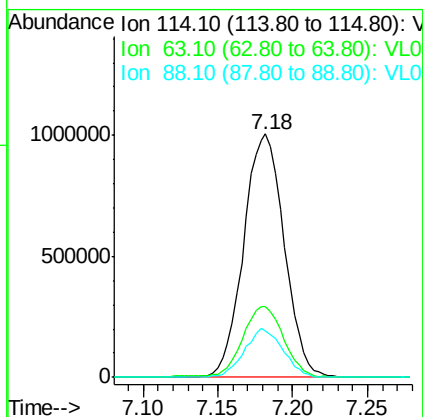
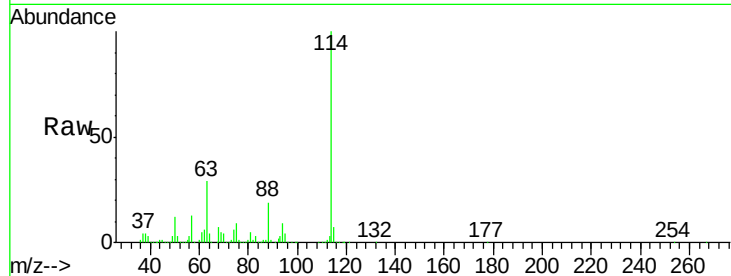
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.00 min
 Lab File: VL034648.D
 Acq: 19 Feb 2020 11:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	30.0	24.1	36.1
88	19.0	15.9	23.9

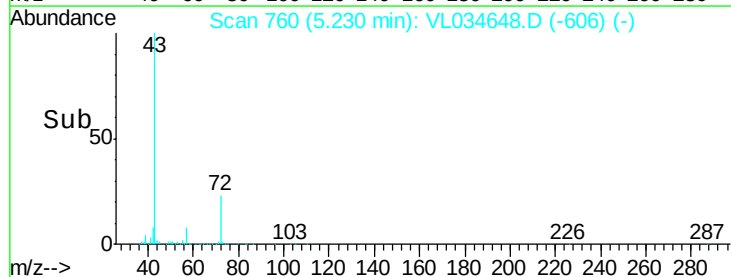
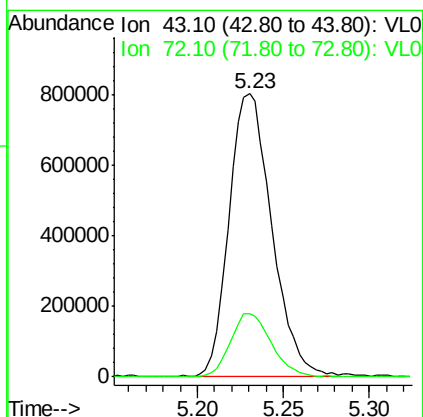
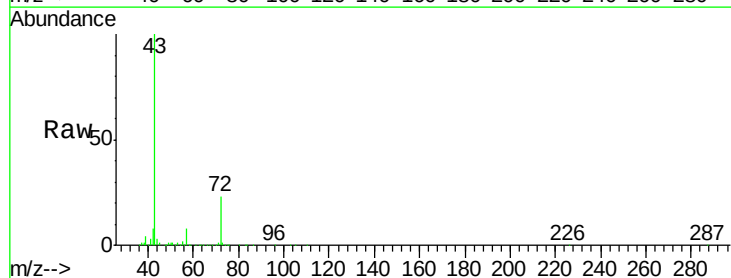
Manual Integrations
 APPROVED

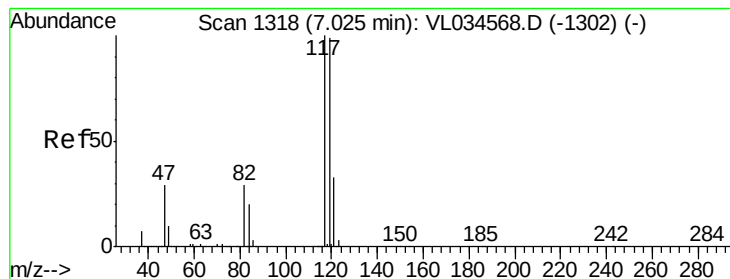
MMDadoda
 2/21/2020 3:23:54 PM



#34
 2-Butanone
 Concen: 10.108 ppbv
 RT: 5.23 min Scan# 760
 Delta R.T. -0.00 min
 Lab File: VL034648.D
 Acq: 19 Feb 2020 11:08

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.8	17.2	25.8





#35

Carbon Tetrachloride

Concen: 10.647 ppbv

RT: 7.02 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VL034648.D

Acq: 19 Feb 2020 11:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 1930130

Ion Ratio Lower Upper

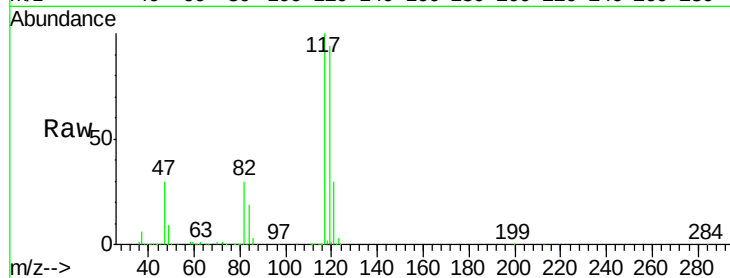
117 100

119 94.3 79.5 119.3

121 30.1 26.2 39.2

Manual Integrations
APPROVED

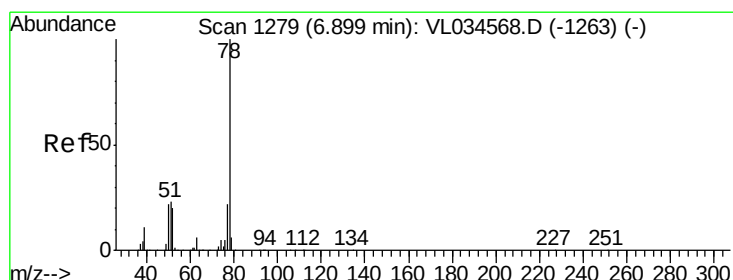
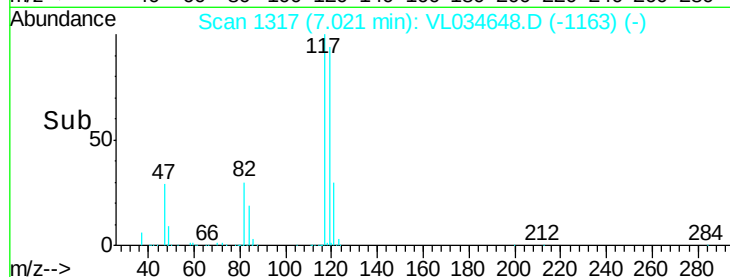
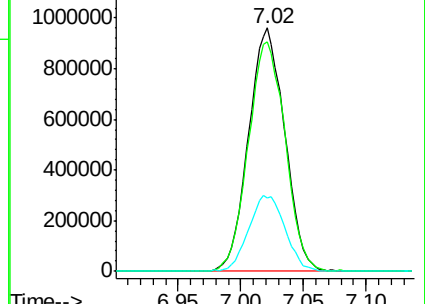
MMDadoda
2/21/2020 3:23:54 PM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.819 ppbv

RT: 6.90 min Scan# 1278

Delta R.T. -0.00 min

Lab File: VL034648.D

Acq: 19 Feb 2020 11:08

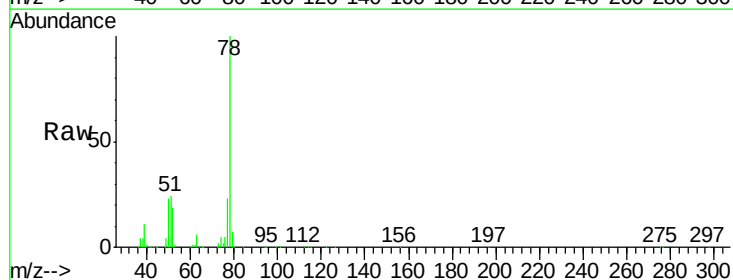
Tgt Ion: 78 Resp: 1824364

Ion Ratio Lower Upper

78 100

77 22.8 17.3 25.9

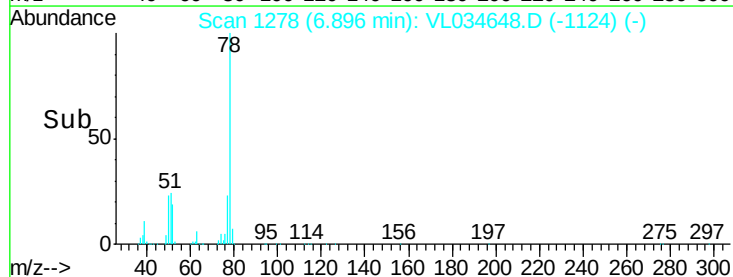
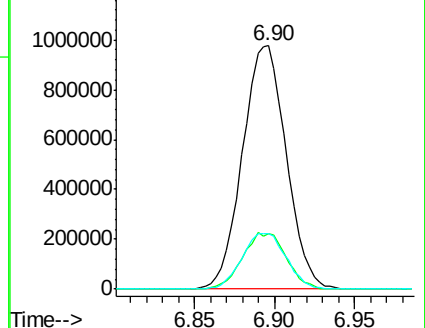
50 22.7 17.4 26.2

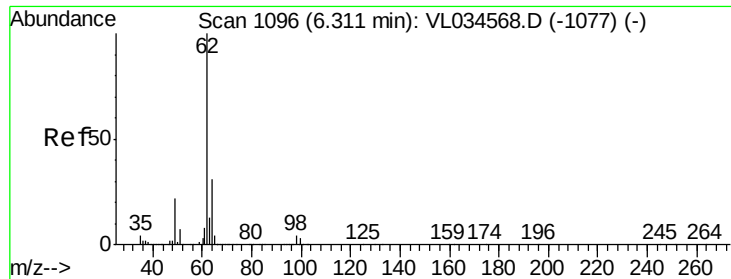


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





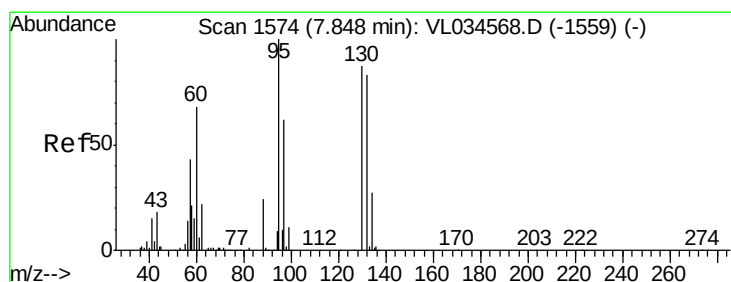
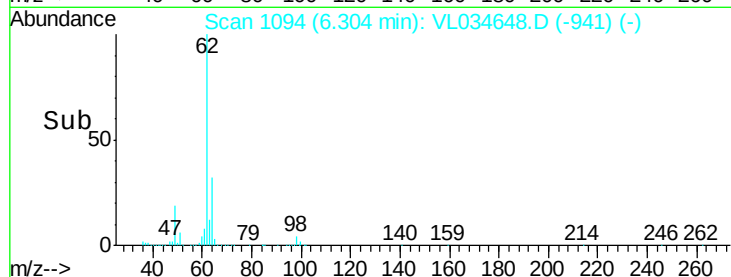
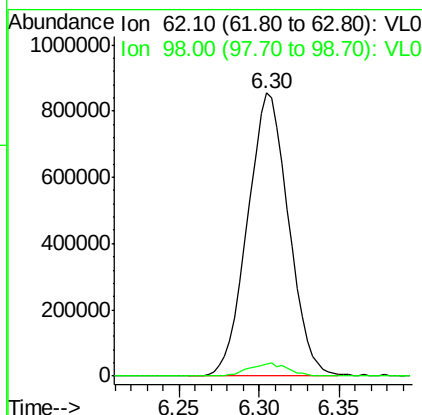
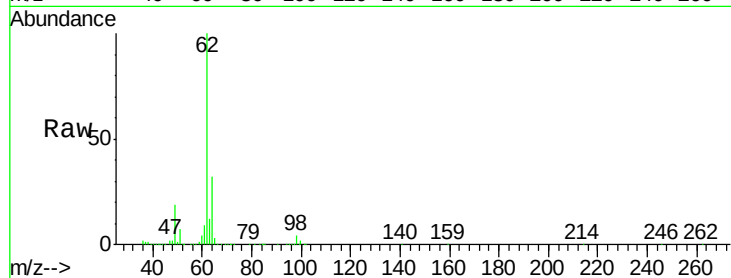
#37
 1,2-Dichloroethane
 Concen: 10.665 ppbv
 RT: 6.30 min Scan# 1094
 Delta R.T. -0.01 min
 Lab File: VL034648.D
 Acq: 19 Feb 2020 11:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
62	100		
98	4.4	3.7	5.5

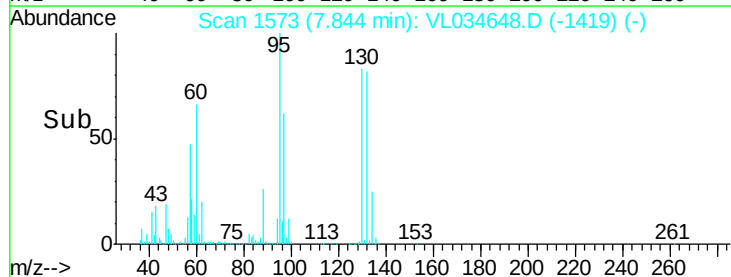
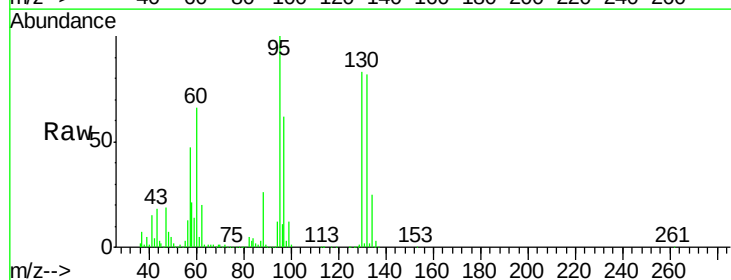
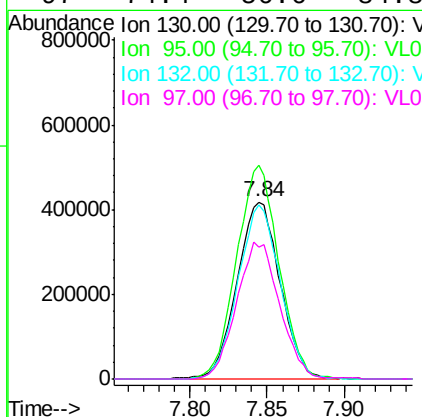
Manual Integrations
 APPROVED

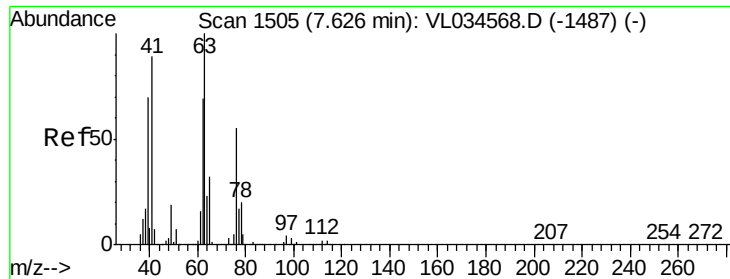
MMDadoda
 2/21/2020 3:23:54 PM



#38
 Trichloroethene
 Concen: 11.280 ppbv
 RT: 7.84 min Scan# 1573
 Delta R.T. -0.00 min
 Lab File: VL034648.D
 Acq: 19 Feb 2020 11:08

Tgt Ion	Ratio	Lower	Upper
130	100		
95	120.6	91.6	137.4
132	98.3	76.1	114.1
97	74.4	56.6	84.8





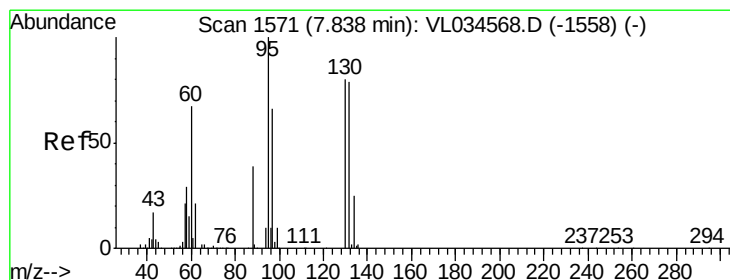
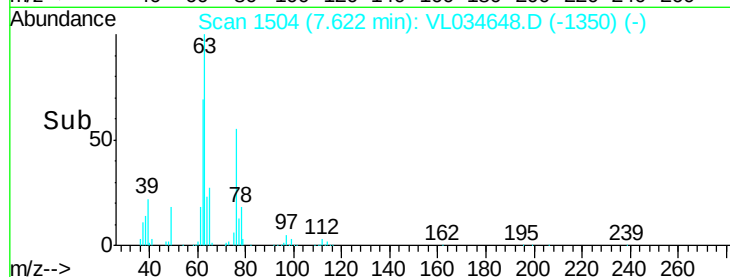
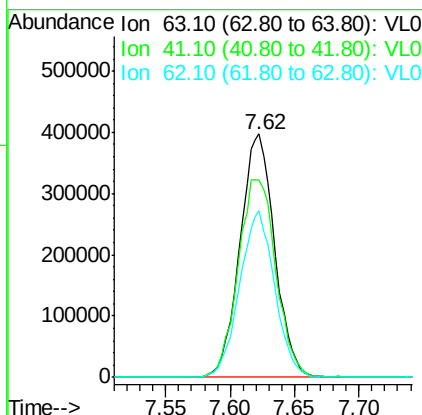
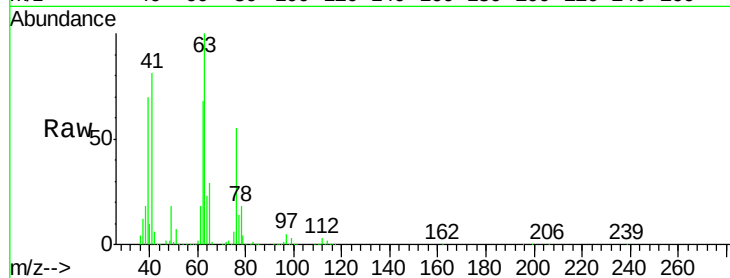
#39
 1,2-Dichloropropane
 Concen: 10.626 ppbv
 RT: 7.62 min Scan# 1504
 Delta R.T. -0.00 min
 Lab File: VL034648.D
 Acq: 19 Feb 2020 11:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Resp	Lower	Upper
63	100	742765		
41	81.1		71.0	106.4
62	68.2		55.4	83.0

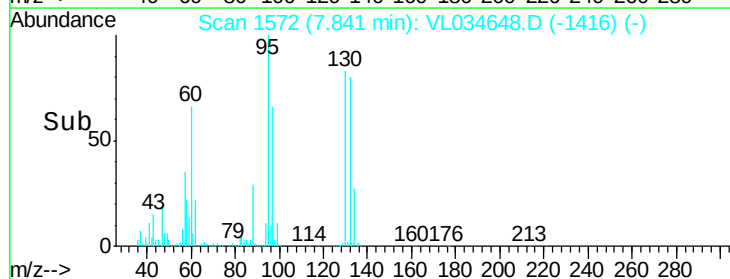
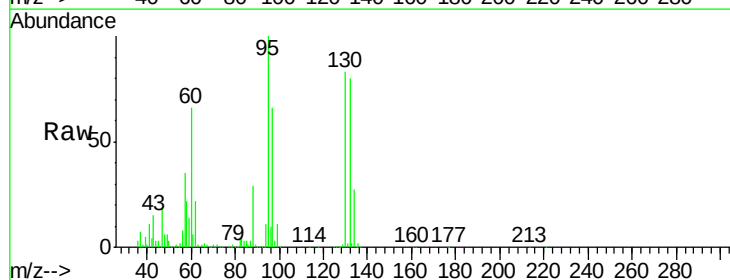
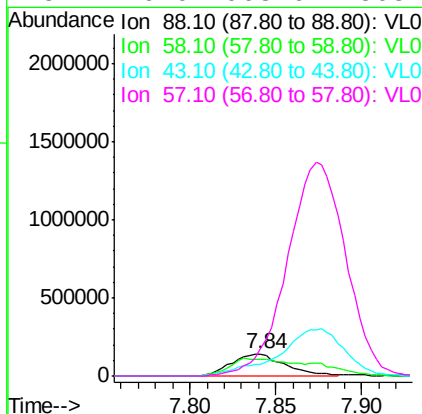
Manual Integrations
 APPROVED

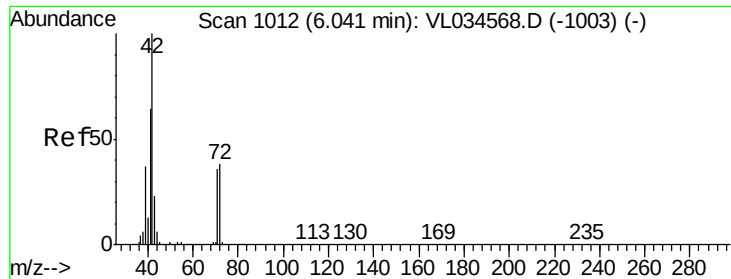
MMDadoda
 2/21/2020 3:23:54 PM



#40
 1,4-Dioxane
 Concen: 11.102 ppbv
 RT: 7.84 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: VL034648.D
 Acq: 19 Feb 2020 11:08

Tgt Ion	Ratio	Resp	Lower	Upper
88	100	298318		
58	132.4		107.8	161.8
43	0.0		220.9	331.3#
57	0.0		908.6	1363.0#





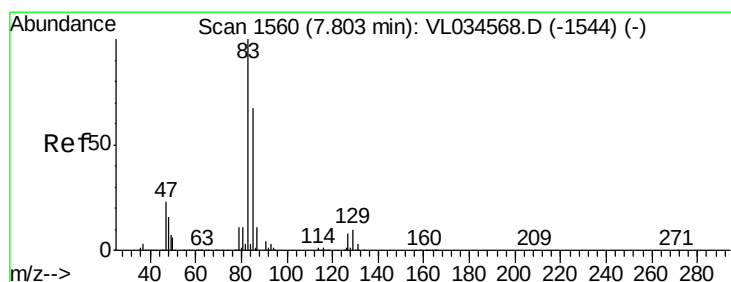
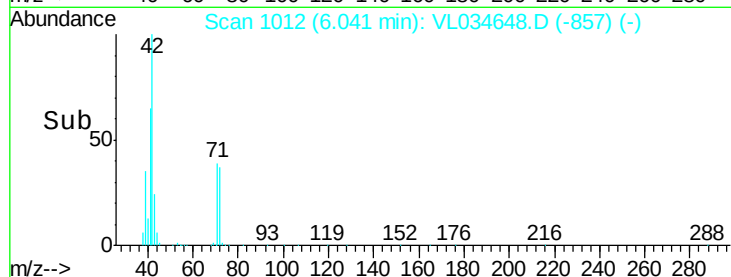
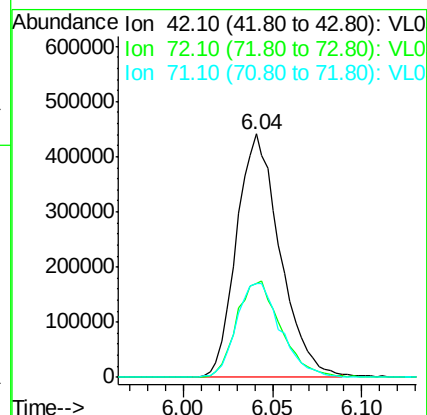
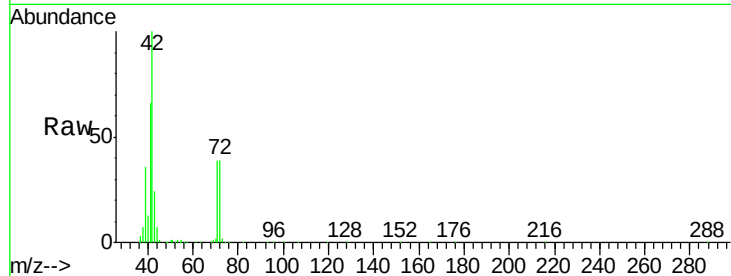
#41
Tetrahydrofuran
Concen: 10.478 ppbv
RT: 6.04 min Scan# 1012
Delta R.T. -0.00 min
Lab File: VL034648.D
Acq: 19 Feb 2020 11:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.2	31.8	47.8
71	39.5	30.2	45.4

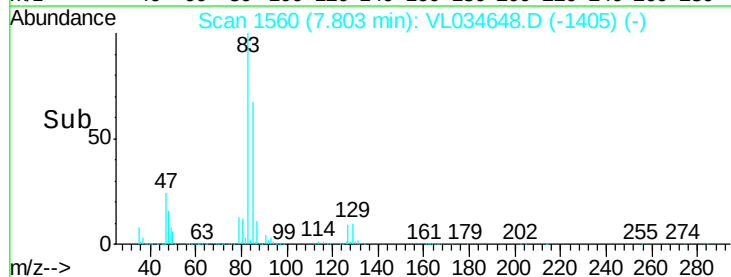
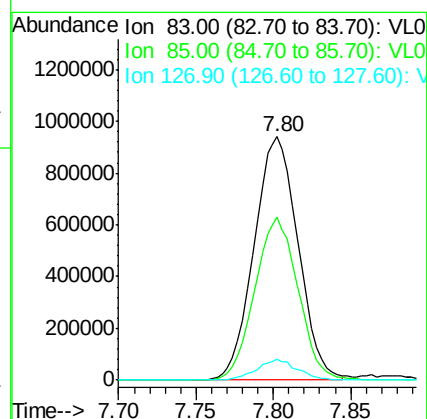
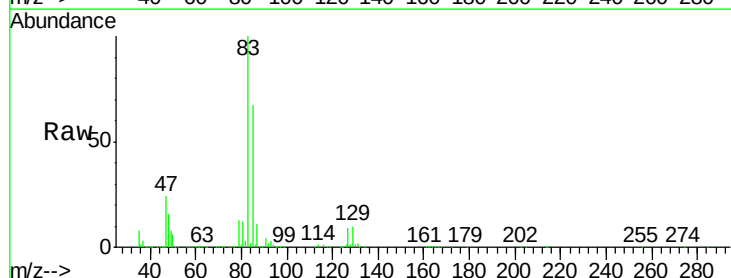
Manual Integrations
APPROVED

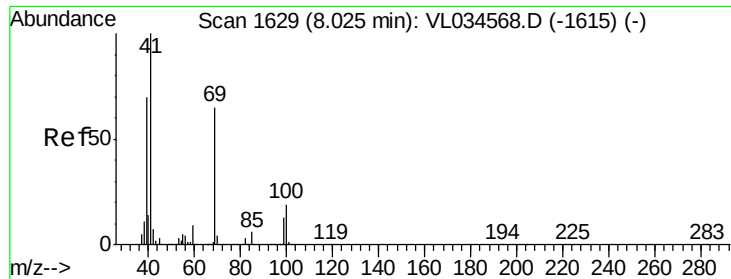
MMDadoda
2/21/2020 3:23:54 PM



#42
Bromodichloromethane
Concen: 10.747 ppbv
RT: 7.80 min Scan# 1560
Delta R.T. -0.00 min
Lab File: VL034648.D
Acq: 19 Feb 2020 11:08

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.1	53.2	79.8
127	8.5	6.5	9.7





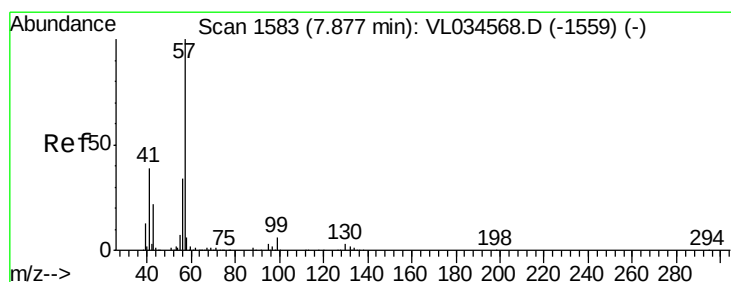
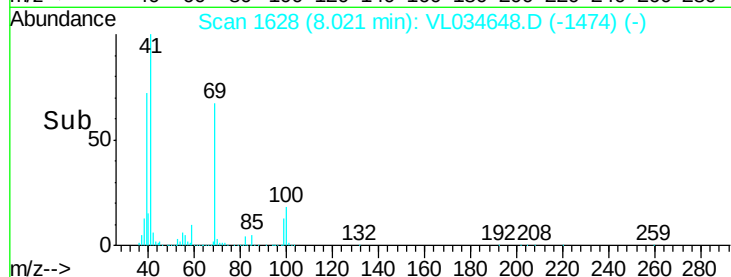
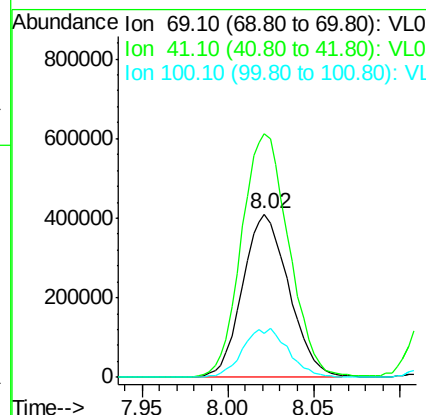
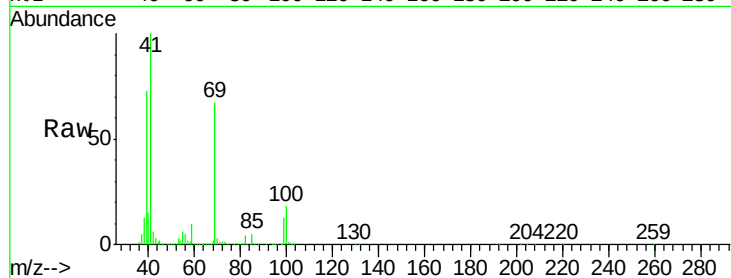
#43
Methyl Methacrylate
Concen: 11.163 ppbv
RT: 8.02 min Scan# 1628
Delta R.T. -0.00 min
Lab File: VL034648.D
Acq: 19 Feb 2020 11:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	155.0	123.9	185.9	
100	30.1	24.1	36.1	

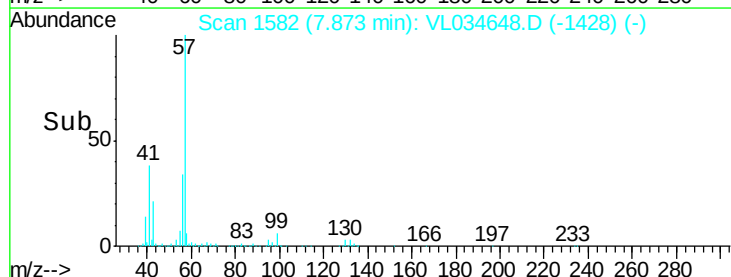
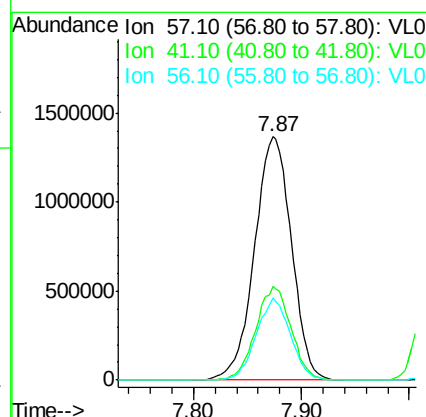
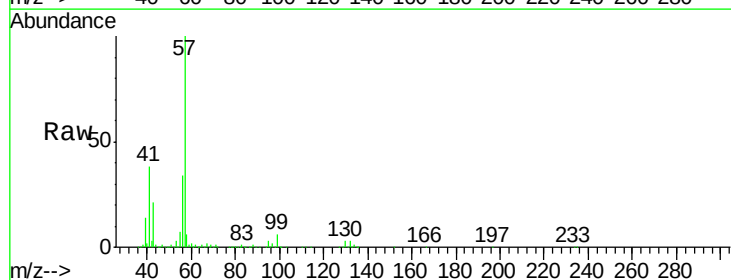
Manual Integrations
APPROVED

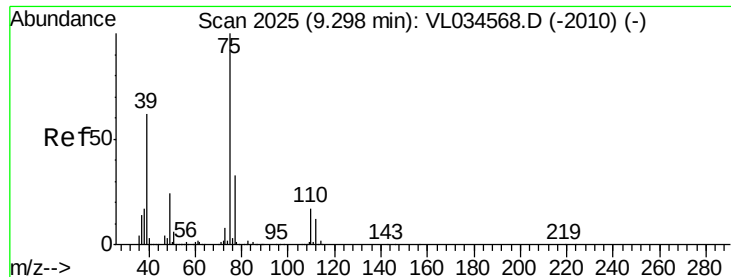
MMDadoda
2/21/2020 3:23:54 PM



#44
2,2,4-Trimethylpentane
Concen: 10.603 ppbv
RT: 7.87 min Scan# 1582
Delta R.T. -0.00 min
Lab File: VL034648.D
Acq: 19 Feb 2020 11:08

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	36.8	28.9	43.3	
56	31.1	25.5	38.3	





#45

t-1,3-Dichloropropene

Concen: 12.362 ppbv

RT: 9.29 min Scan# 2024

Delta R.T. -0.00 min

Lab File: VL034648.D

Acq: 19 Feb 2020 11:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 75 Resp: 1097861

Ion Ratio Lower Upper

75 100

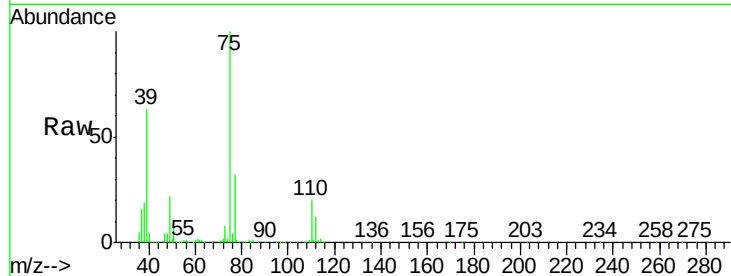
77 32.3 26.7 40.1

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

600000

400000

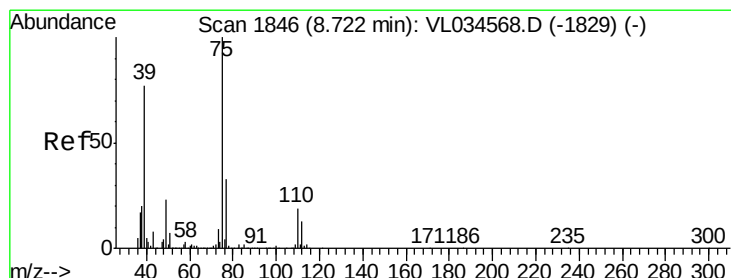
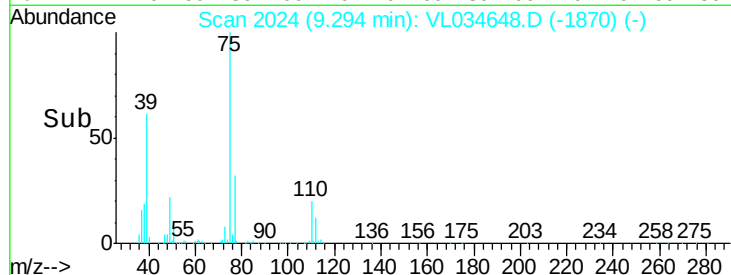
200000

0

9.29

9.25 9.30 9.35

Time-->



#46

cis-1,3-Dichloropropene

Concen: 12.101 ppbv

RT: 8.72 min Scan# 1845

Delta R.T. -0.00 min

Lab File: VL034648.D

Acq: 19 Feb 2020 11:08

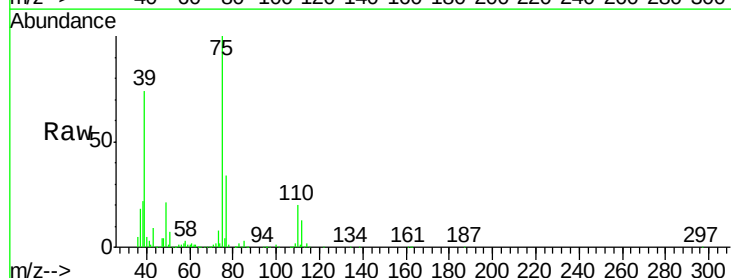
Tgt Ion: 75 Resp: 1221474

Ion Ratio Lower Upper

75 100

39 74.2 61.9 92.9

77 33.9 26.1 39.1



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

800000

600000

400000

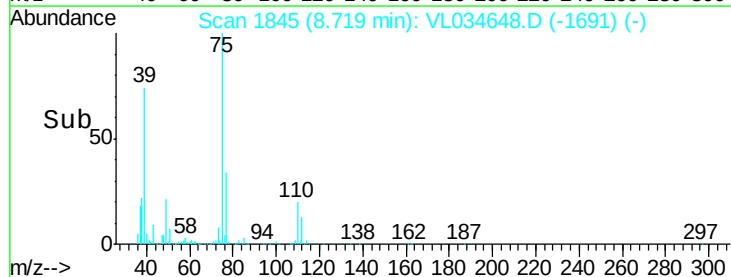
200000

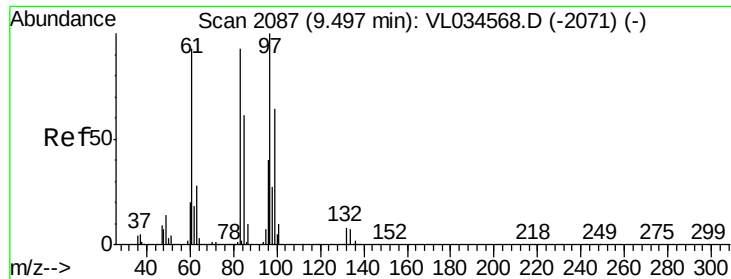
0

8.72

8.65 8.70 8.75 8.80

Time-->





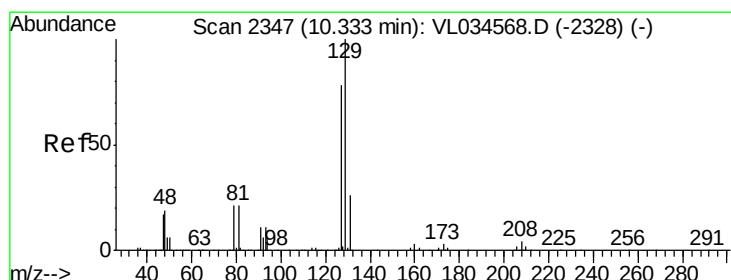
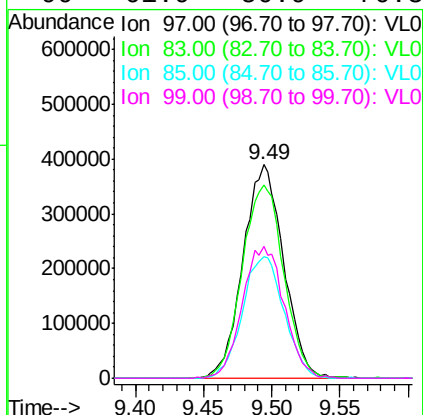
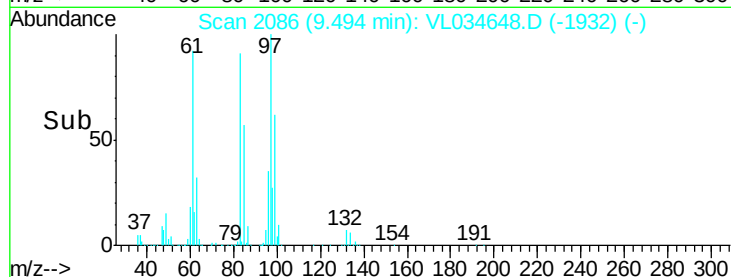
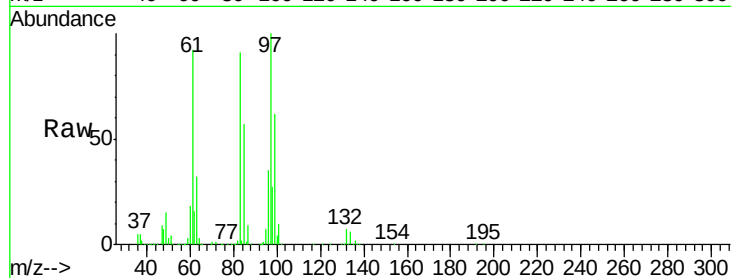
#47
 1,1,2-Trichloroethane
 Concen: 10.617 ppbv
 RT: 9.49 min Scan# 2086
 Delta R.T. -0.00 min
 Lab File: VL034648.D
 Acq: 19 Feb 2020 11:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	90.8	74.4	111.6	
85	57.2	49.2	73.8	
99	61.9	50.9	76.3	

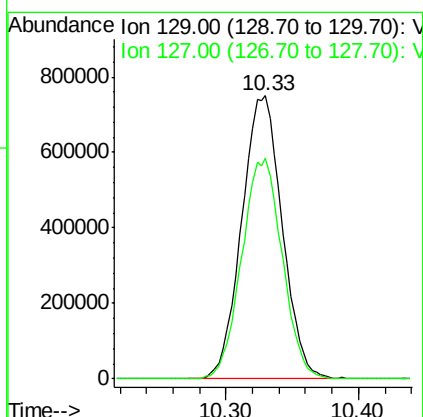
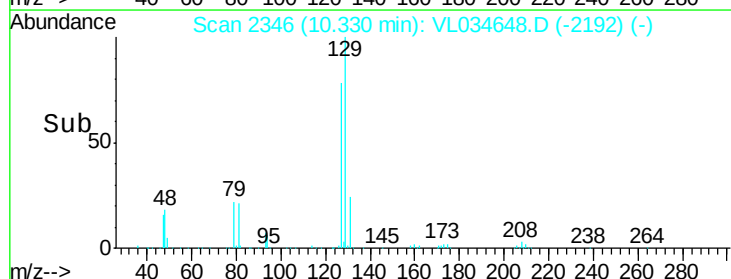
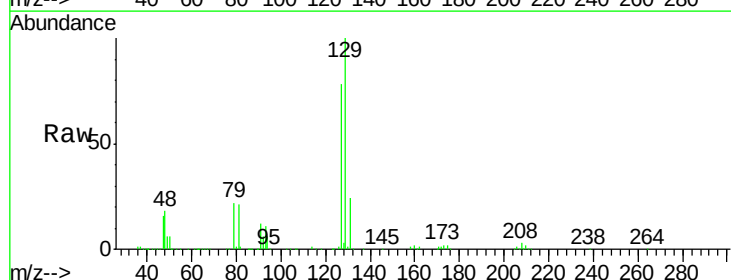
Manual Integrations
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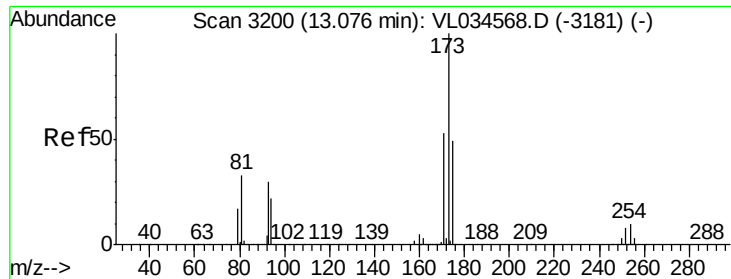
MMDadoda
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#48
 Dibromochloromethane
 Concen: 11.473 ppbv
 RT: 10.33 min Scan# 2346
 Delta R.T. -0.00 min
 Lab File: VL034648.D
 Acq: 19 Feb 2020 11:08

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.1	39.1	117.2	





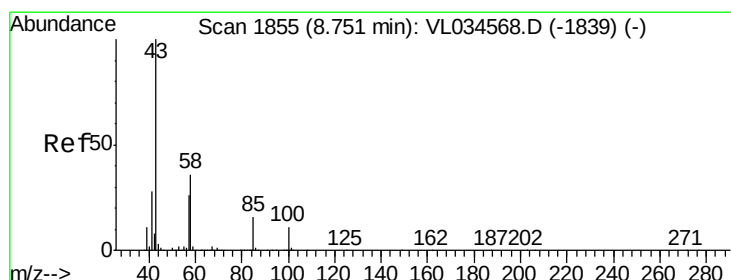
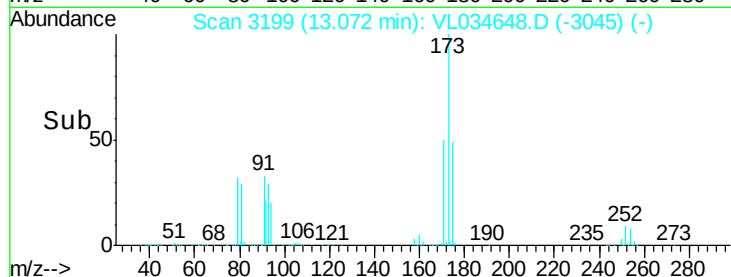
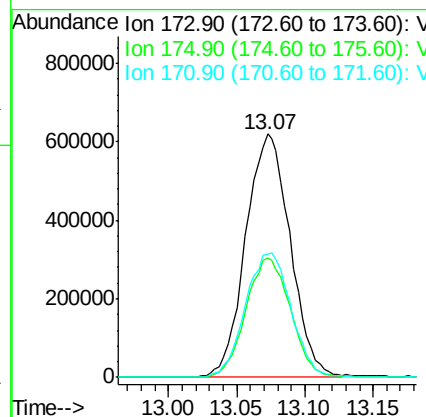
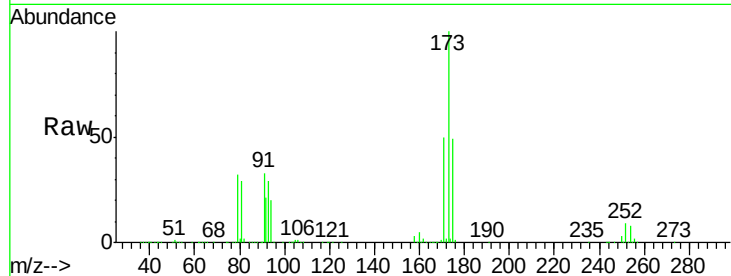
#49
Bromoform
Concen: 11.506 ppbv
RT: 13.07 min Scan# 3199
Delta R.T. -0.00 min
Lab File: VL034648.D
Acq: 19 Feb 2020 11:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:173 Resp: 1401576
Ion Ratio Lower Upper
173 100
175 49.5 39.7 59.5
171 52.9 41.6 62.4

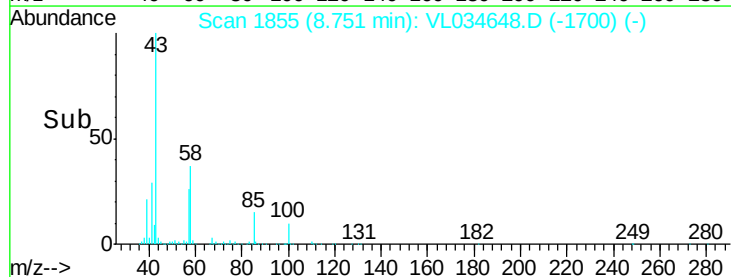
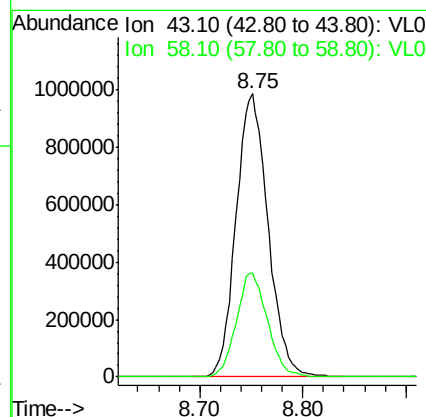
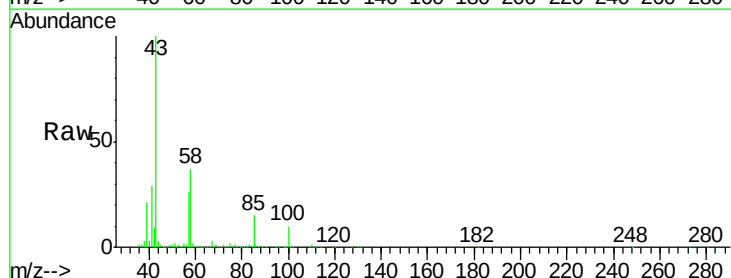
Manual Integrations
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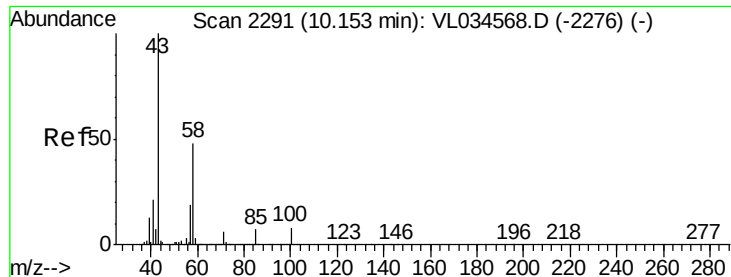
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 10.865 ppbv
RT: 8.75 min Scan# 1855
Delta R.T. -0.00 min
Lab File: VL034648.D
Acq: 19 Feb 2020 11:08

Tgt Ion: 43 Resp: 2133175
Ion Ratio Lower Upper
43 100
58 35.6 28.6 43.0





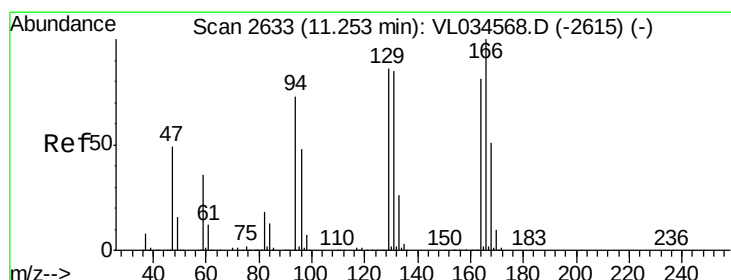
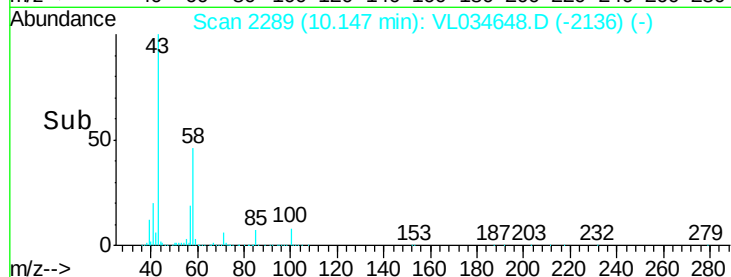
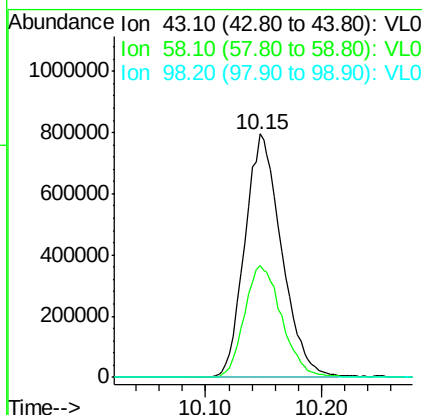
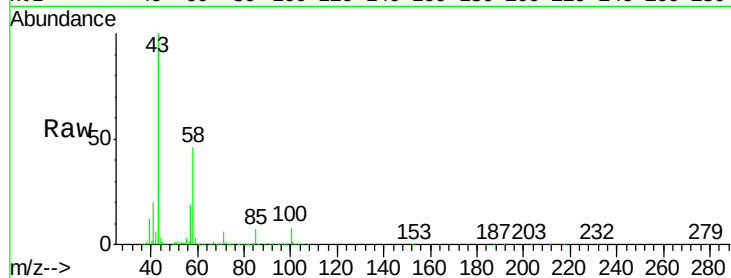
#51
2-Hexanone
Concen: 11.328 ppbv
RT: 10.15 min Scan# 2289
Delta R.T. -0.01 min
Lab File: VL034648.D
Acq: 19 Feb 2020 11:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 1750885
Ion Ratio Lower Upper
43 100
58 46.8 37.9 56.9
98 0.4 0.3 0.5

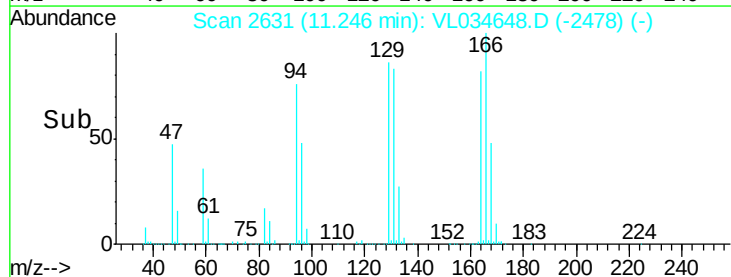
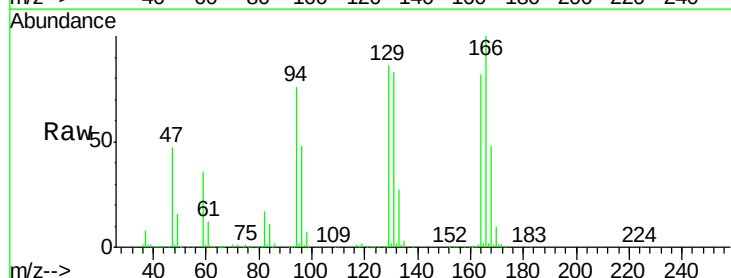
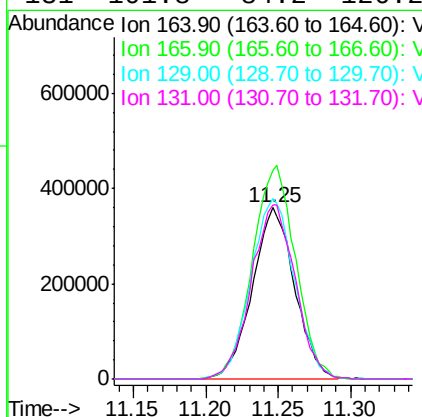
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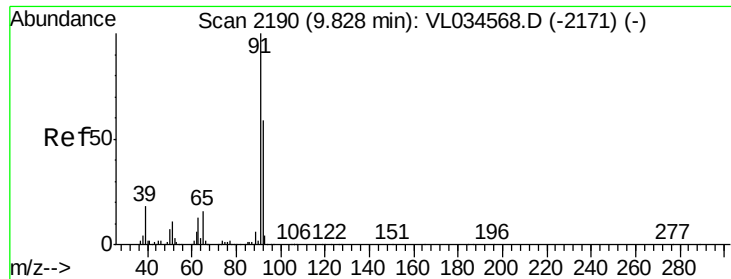
MMDadoda
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#52
Tetrachloroethene
Concen: 10.772 ppbv
RT: 11.25 min Scan# 2631
Delta R.T. -0.01 min
Lab File: VL034648.D
Acq: 19 Feb 2020 11:08

Tgt Ion: 164 Resp: 729659
Ion Ratio Lower Upper
164 100
166 122.3 99.0 148.4
129 105.3 85.3 127.9
131 101.8 84.2 126.2





#53

Toluene

Concen: 11.662 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. -0.01 min

Lab File: VL034648.D

Acq: 19 Feb 2020 11:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2160349

Ion Ratio Lower Upper

91 100

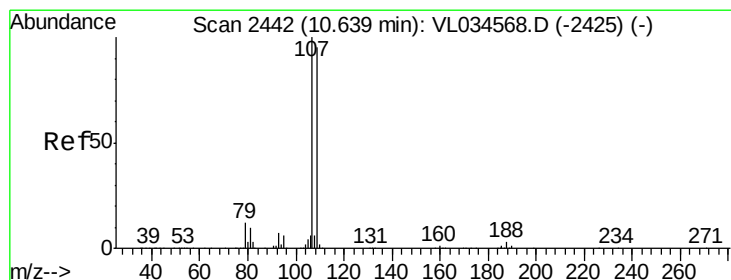
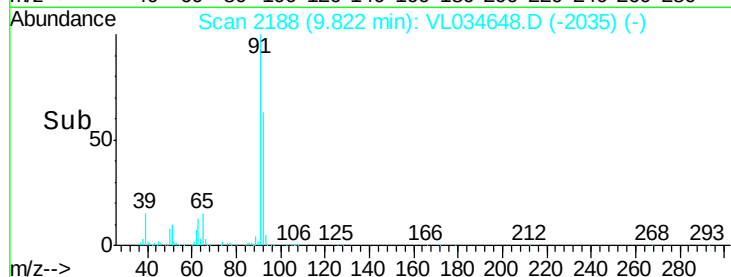
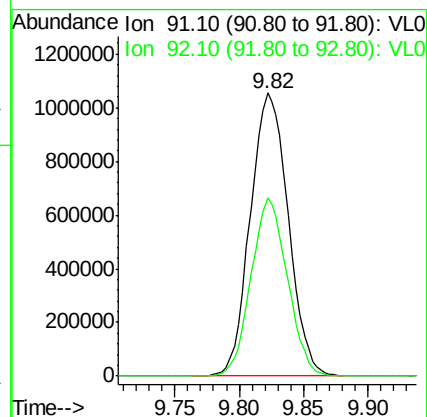
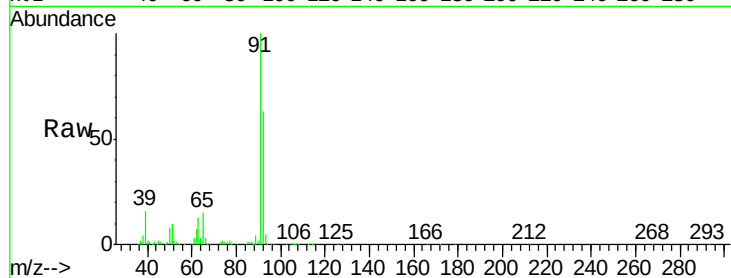
92 60.4 48.2 72.2

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 10.934 ppbv

RT: 10.63 min Scan# 2440

Delta R.T. -0.01 min

Lab File: VL034648.D

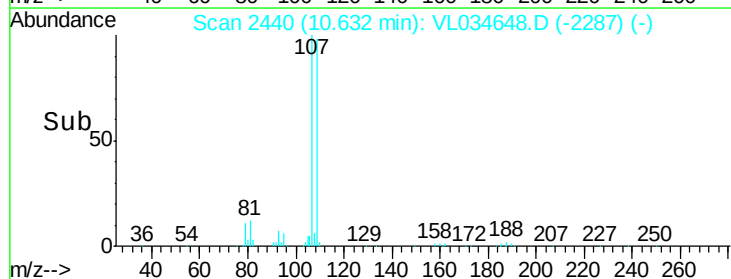
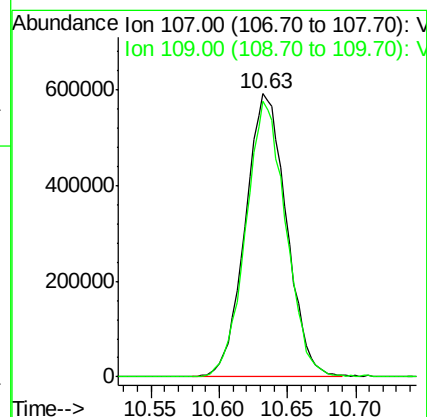
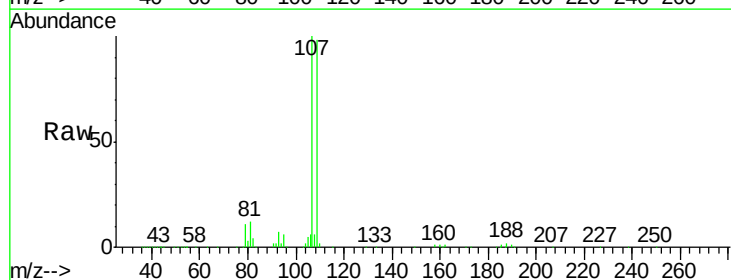
Acq: 19 Feb 2020 11:08

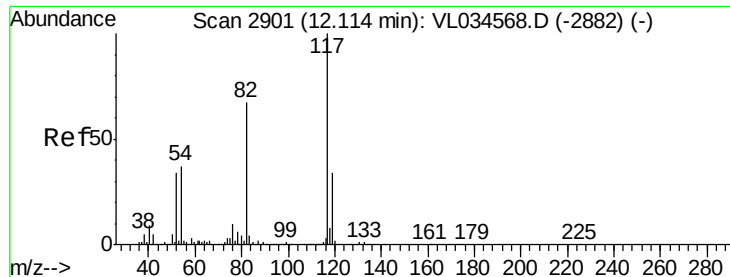
Tgt Ion: 107 Resp: 1240514

Ion Ratio Lower Upper

107 100

109 97.5 75.9 113.9





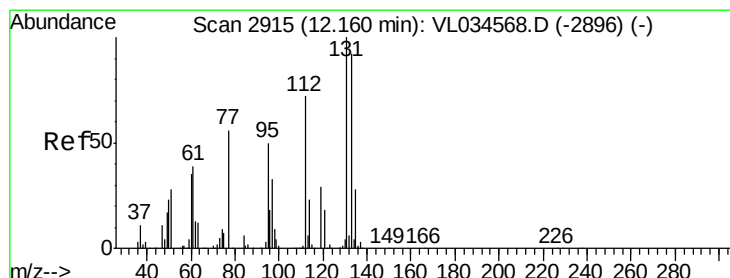
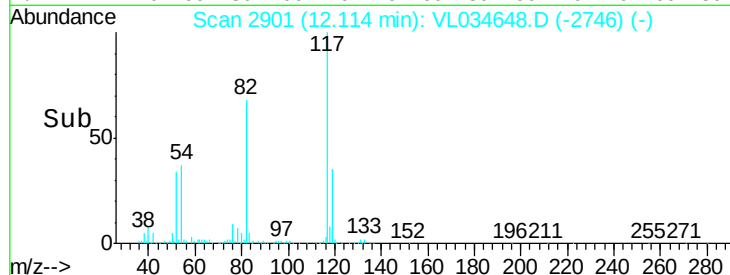
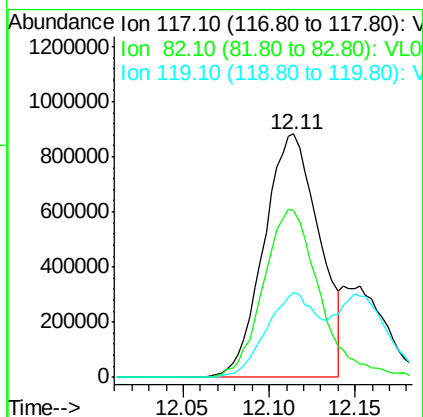
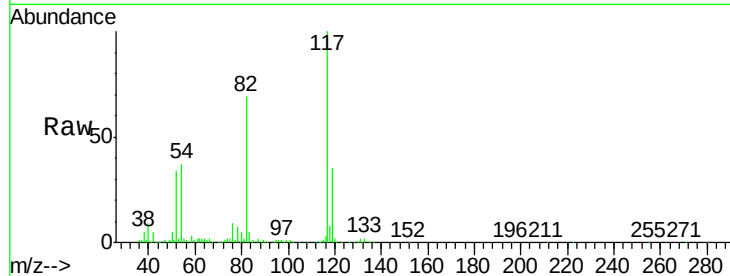
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2901
Delta R.T. -0.00 min
Lab File: VL034648.D
Acq: 19 Feb 2020 11:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
117	100		
82	70.7	54.2	81.4
119	31.0	26.1	39.1

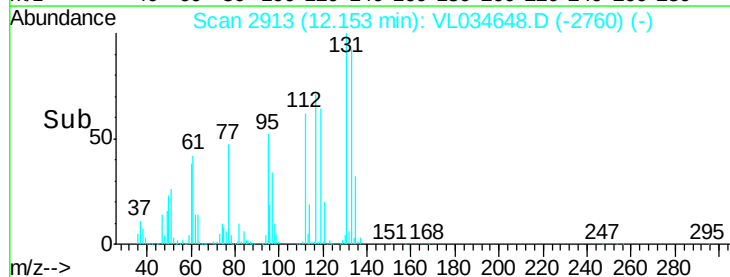
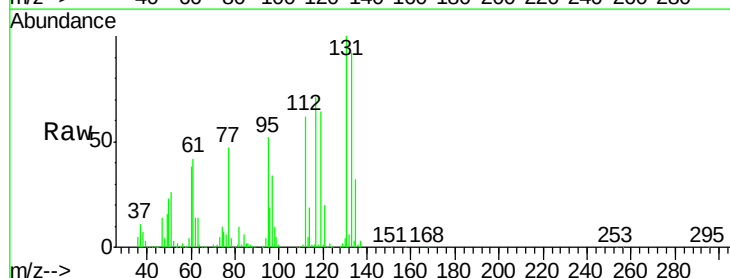
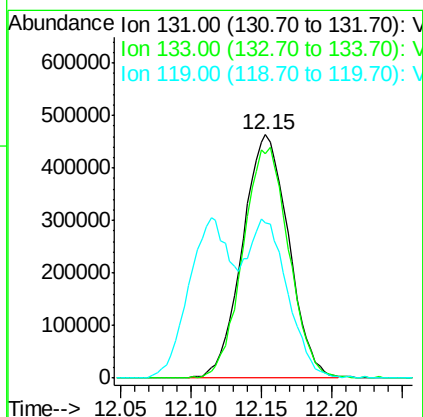
Manual Integrations
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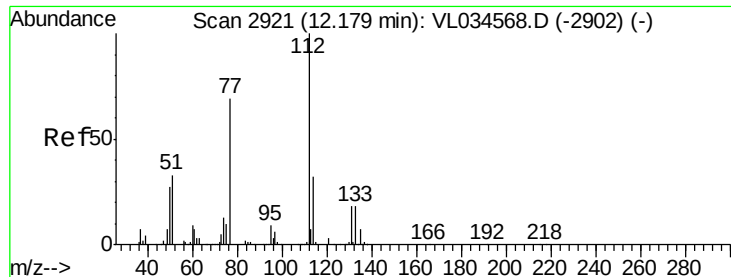
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 10.906 ppbv
RT: 12.15 min Scan# 2913
Delta R.T. -0.01 min
Lab File: VL034648.D
Acq: 19 Feb 2020 11:08

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.8	75.8	113.8
119	62.1	47.0	70.6





#57

Chlorobenzene

Concen: 10.817 ppbv

RT: 12.18 min Scan# 2920

Delta R.T. -0.00 min

Lab File: VL034648.D

Acq: 19 Feb 2020 11:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 112 Resp: 1750348

Ion Ratio Lower Upper

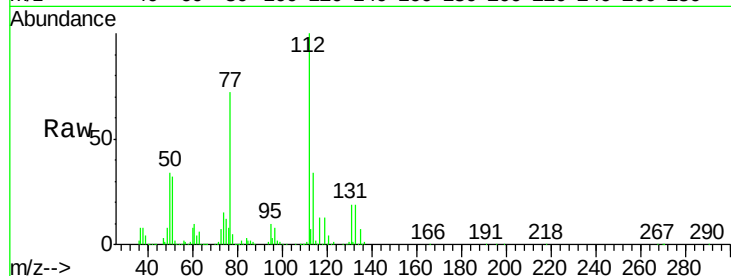
112 100

77 72.2 56.5 84.7

114 33.6 29.2 35.6

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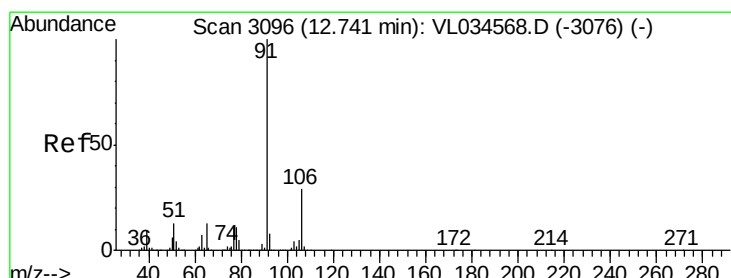
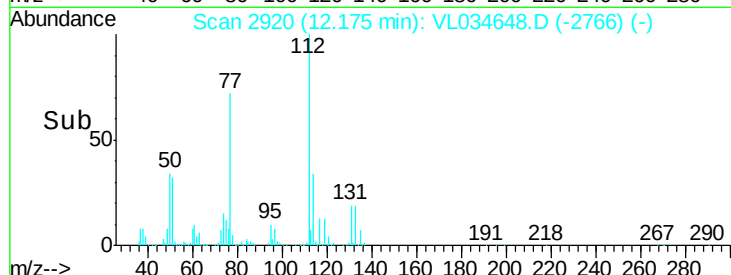
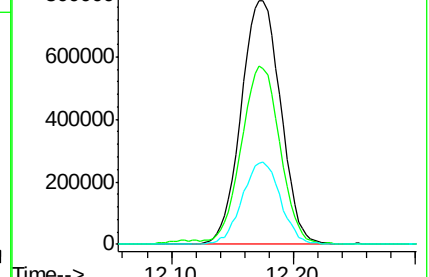
MMDadoda
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 11.337 ppbv

RT: 12.74 min Scan# 3095

Delta R.T. -0.00 min

Lab File: VL034648.D

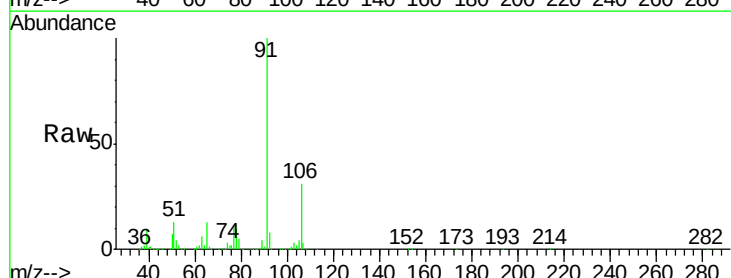
Acq: 19 Feb 2020 11:08

Tgt Ion: 91 Resp: 2983279

Ion Ratio Lower Upper

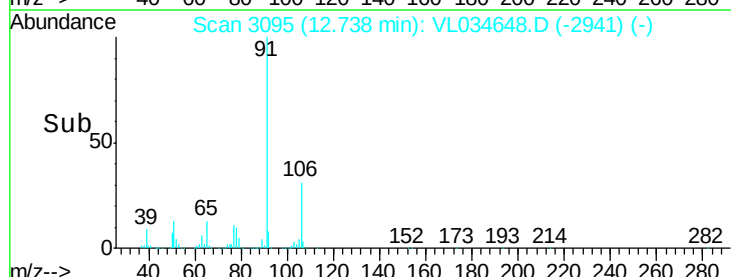
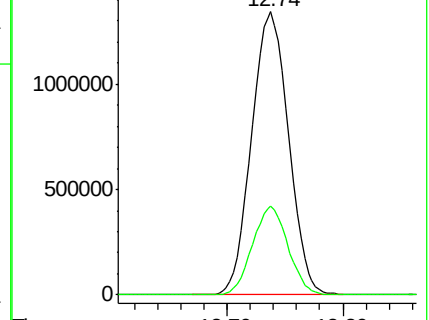
91 100

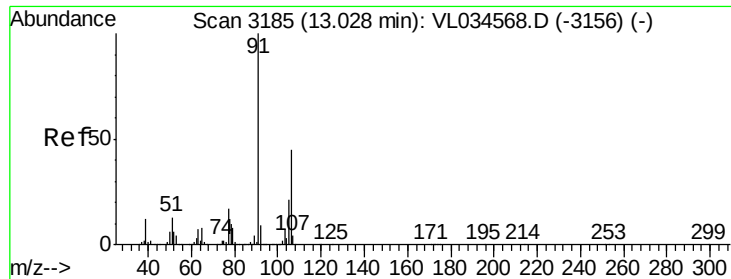
106 31.4 23.3 34.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





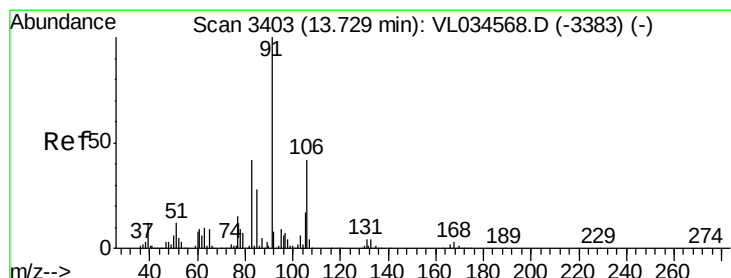
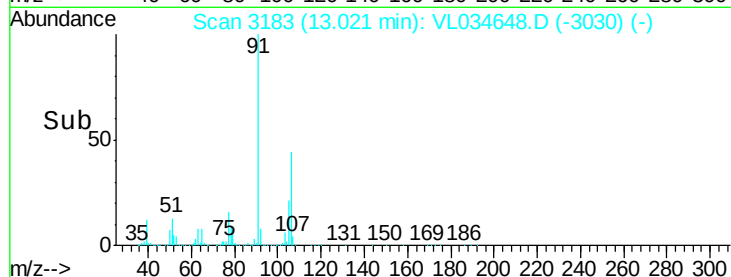
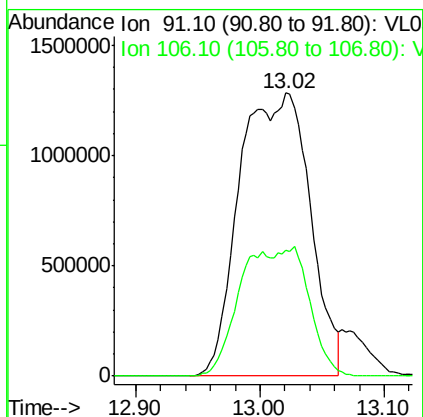
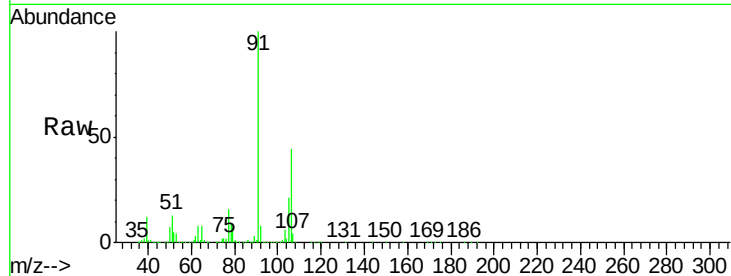
#59
m/p-Xylene
Concen: 21.717 ppbv m
RT: 13.02 min Scan# 3183
Delta R.T. -0.01 min
Lab File: VL034648.D
Acq: 19 Feb 2020 11:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 5051577
Ion Ratio Lower Upper
91 100
106 44.5 35.3 52.9

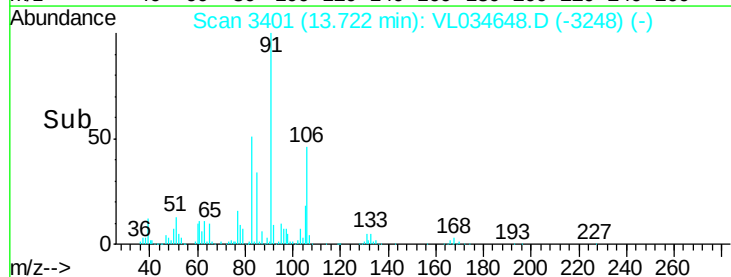
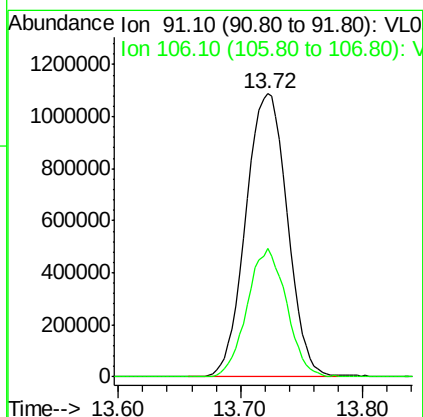
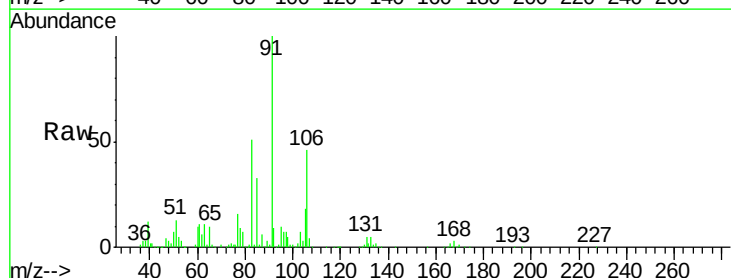
Manual Integrations
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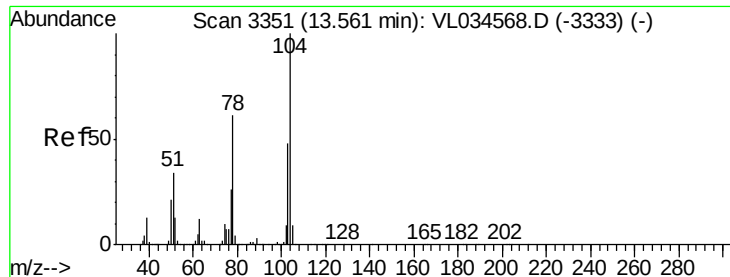
MMDadoda
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#60
o-Xylene
Concen: 10.969 ppbv
RT: 13.72 min Scan# 3401
Delta R.T. -0.01 min
Lab File: VL034648.D
Acq: 19 Feb 2020 11:08

Tgt Ion: 91 Resp: 2562482
Ion Ratio Lower Upper
91 100
106 43.1 21.6 65.0





#61

Stvrene

Concen: 11.880 ppbv

RT: 13.56 min Scan# 3350

Delta R.T. -0.00 min

Lab File: VL034648.D

Acq: 19 Feb 2020 11:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:104 Resp: 1850521

Ion Ratio Lower Upper

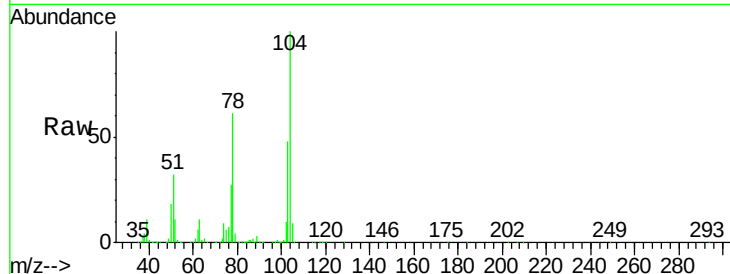
104 100

78 61.2 47.0 70.6

103 48.5 38.5 57.7

Manual Integrations
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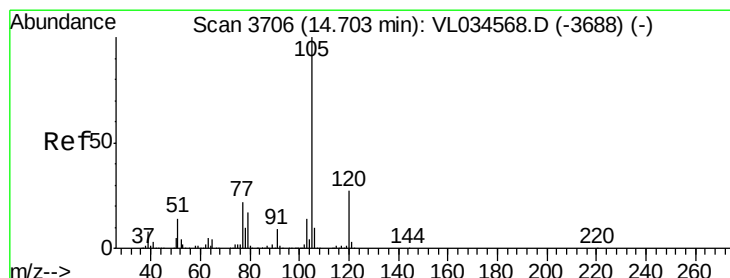
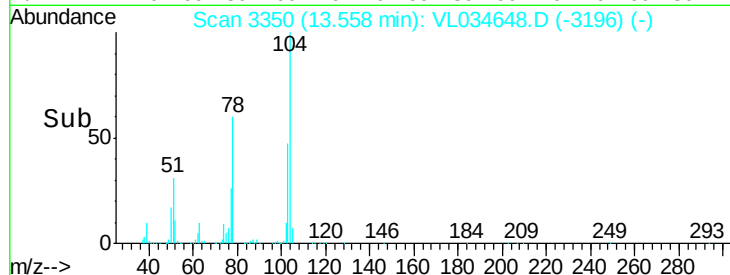
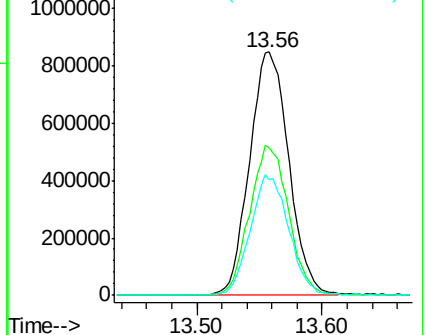
MMDadoda
2/21/2020 3:23:54 PM



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: 10.897 ppbv

RT: 14.70 min Scan# 3704

Delta R.T. -0.01 min

Lab File: VL034648.D

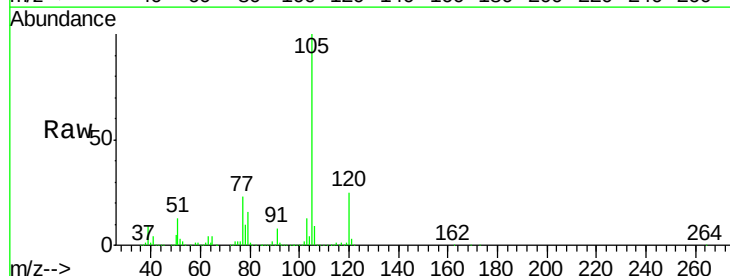
Acq: 19 Feb 2020 11:08

Tgt Ion:105 Resp: 3298694

Ion Ratio Lower Upper

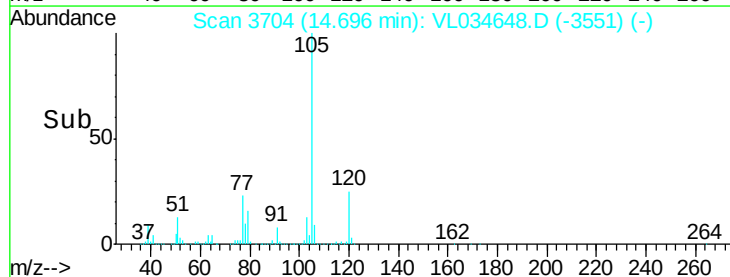
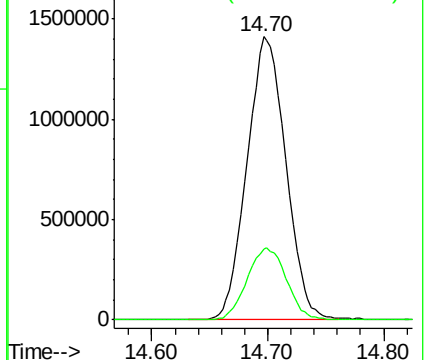
105 100

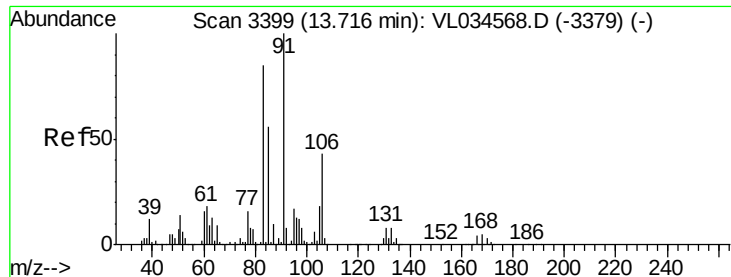
120 25.8 20.7 31.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





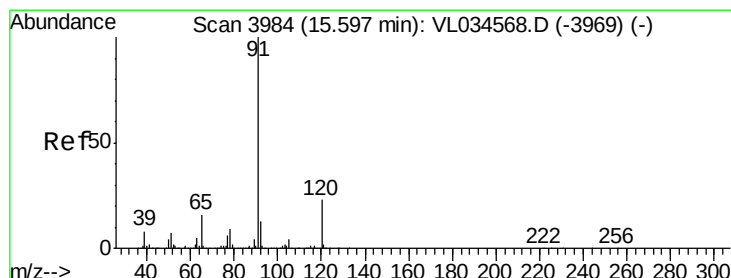
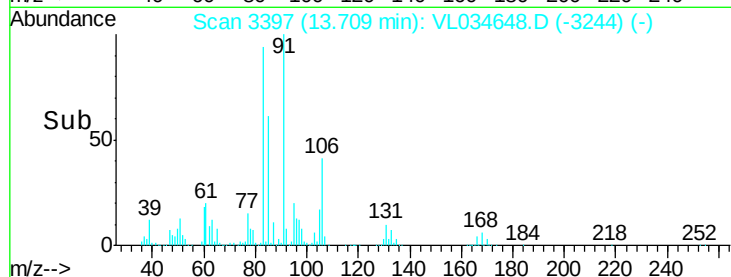
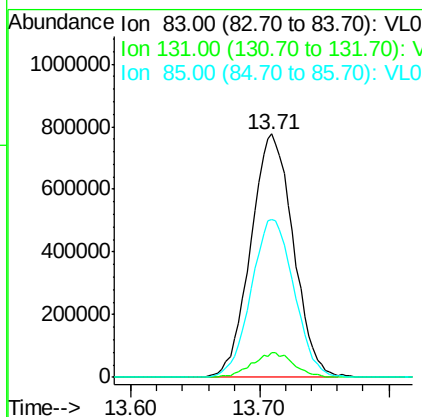
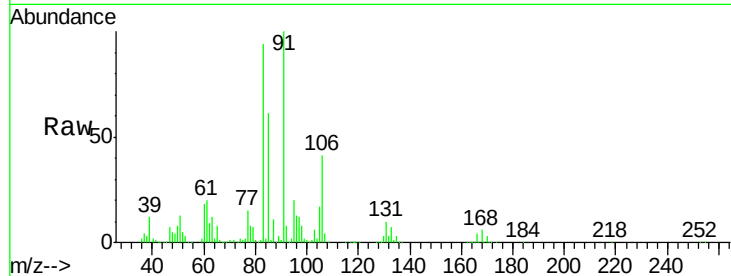
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.862 ppbv
 RT: 13.71 min Scan# 3397
 Delta R.T. -0.01 min
 Lab File: VL034648.D
 Acq: 19 Feb 2020 11:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	83	Resp	1781766
Ion Ratio	Lower	Upper	
83	100		
131	9.9	4.9	14.6
85	65.7	32.6	98.0

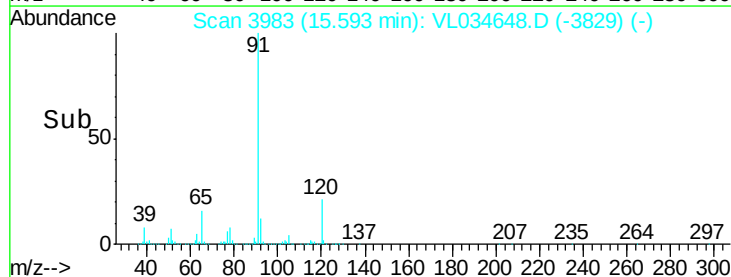
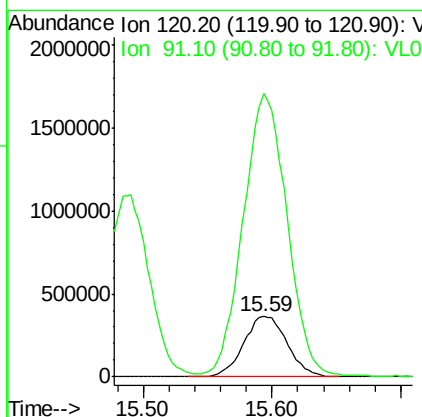
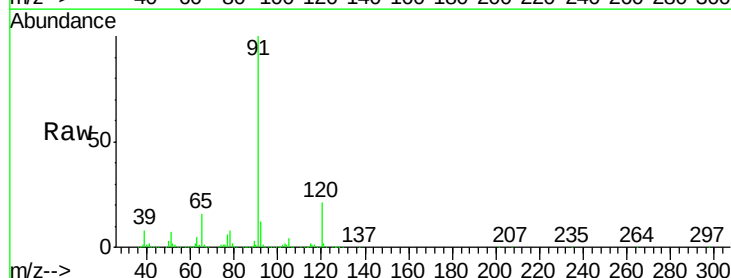
Manual Integrations
 APPROVED

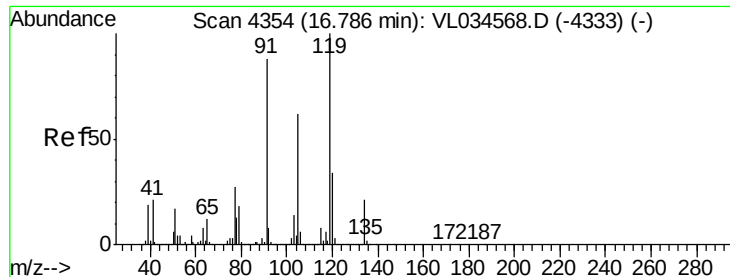
MMDadoda
 2/21/2020 3:23:54 PM



#64
 n-propylbenzene
 Concen: 10.986 ppbv
 RT: 15.59 min Scan# 3983
 Delta R.T. -0.00 min
 Lab File: VL034648.D
 Acq: 19 Feb 2020 11:08

Tgt Ion	120	Resp	855628
Ion Ratio	Lower	Upper	
120	100		
91	475.7	365.3	547.9





#65

tert-Butylbenzene

Concen: 11.000 ppbv

RT: 16.78 min Scan# 4352

Delta R.T. -0.01 min

Lab File: VL034648.D

Acq: 19 Feb 2020 11:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:119 Resp: 3016742

Ion Ratio Lower Upper

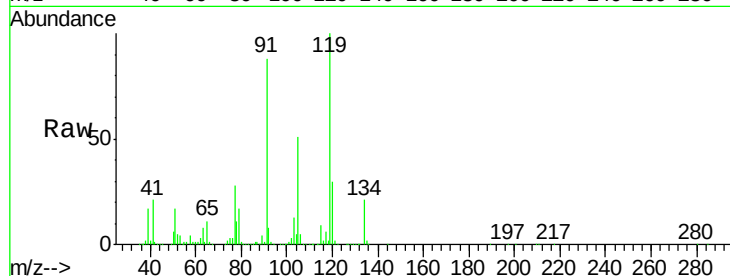
119 100

91 91.2 72.2 108.4

134 20.0 15.9 23.9

Manual Integrations
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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

1500000

1000000

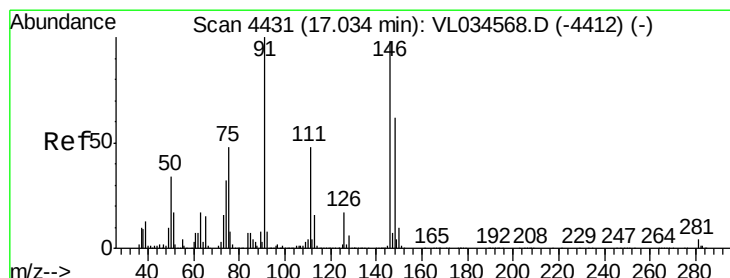
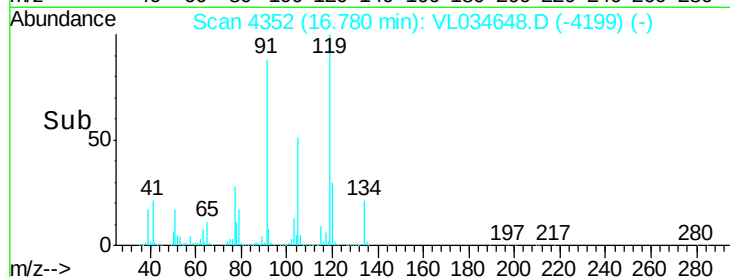
500000

0

16.78

16.70 16.80 16.90

Time-->



#66

Benzyl Chloride

Concen: 12.677 ppbv

RT: 17.03 min Scan# 4429

Delta R.T. -0.01 min

Lab File: VL034648.D

Acq: 19 Feb 2020 11:08

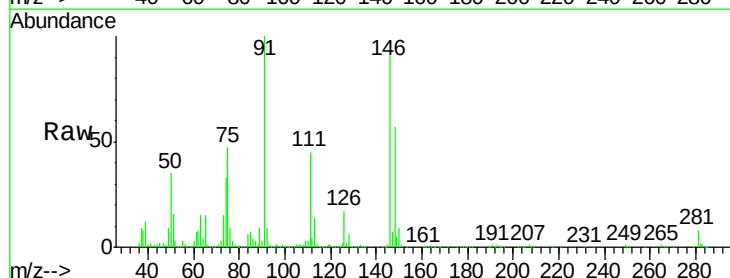
Tgt Ion: 91 Resp: 1457847

Ion Ratio Lower Upper

91 100

126 16.7 13.4 20.0

128 5.1 4.3 6.5



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

800000

600000

400000

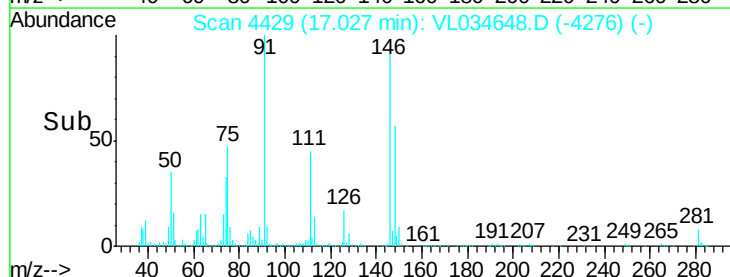
200000

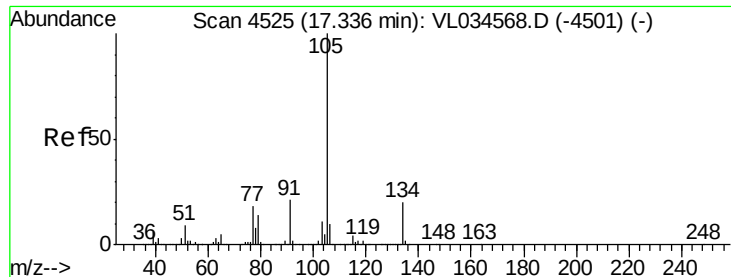
0

17.03

17.00 17.10

Time-->





#67

sec-Butylbenzene

Concen: 10.884 ppbv

RT: 17.33 min Scan# 4524

Delta R.T. -0.00 min

Lab File: VL034648.D

Acq: 19 Feb 2020 11:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 4102340

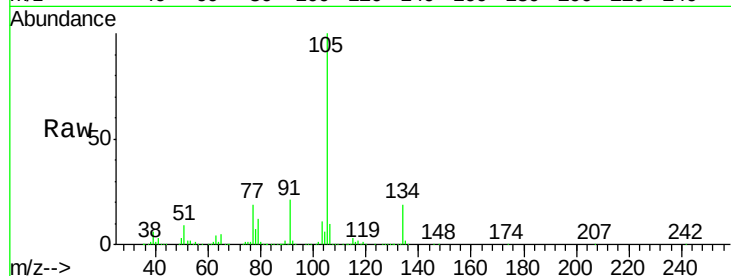
Ion Ratio Lower Upper

105 100

134 19.1 15.5 23.3

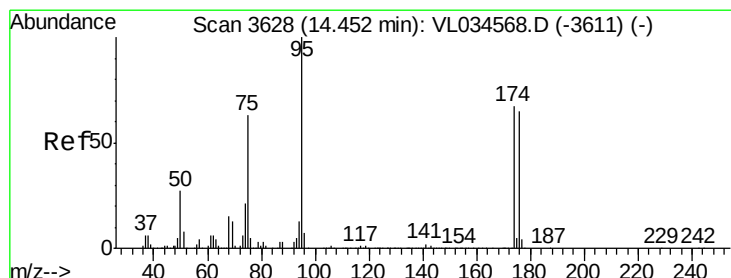
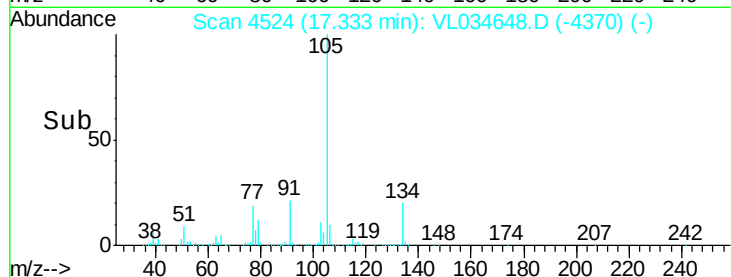
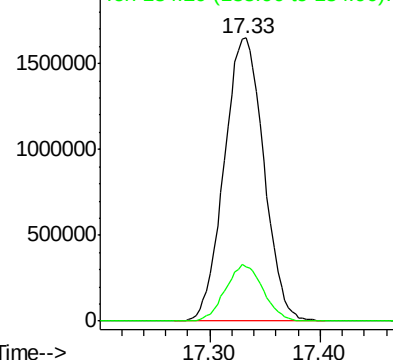
Manual Integrations
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.197 ppbv

RT: 14.45 min Scan# 3627

Delta R.T. -0.00 min

Lab File: VL034648.D

Acq: 19 Feb 2020 11:08

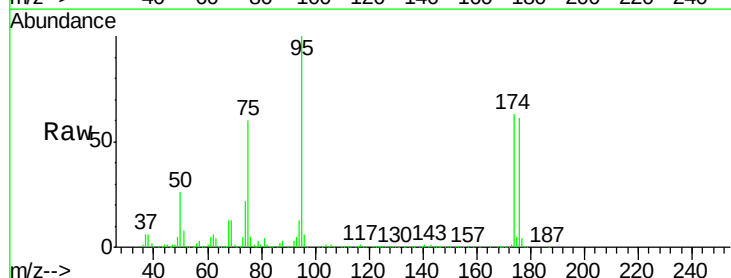
Tgt Ion: 95 Resp: 1694734

Ion Ratio Lower Upper

95 100

174 66.0 52.3 78.5

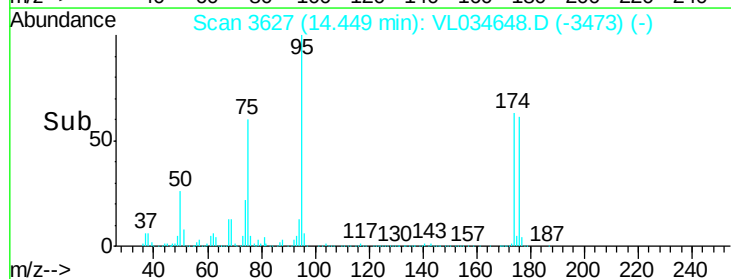
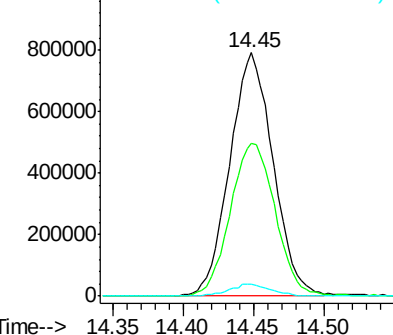
175 4.7 3.8 5.6

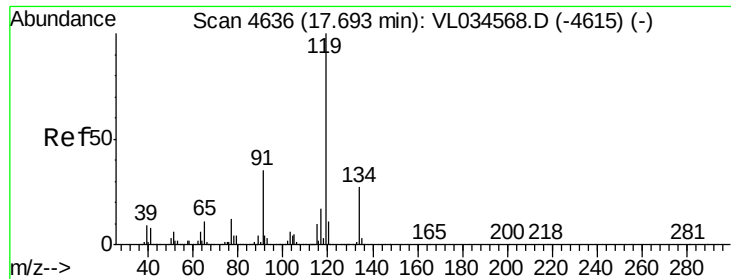


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





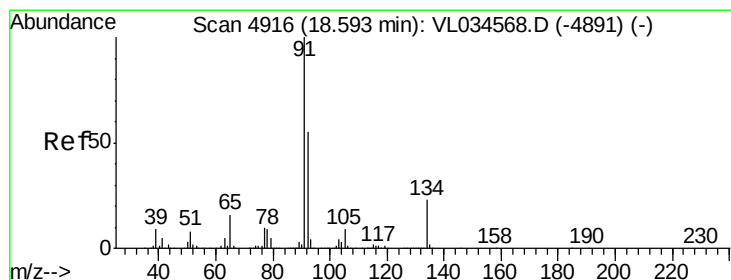
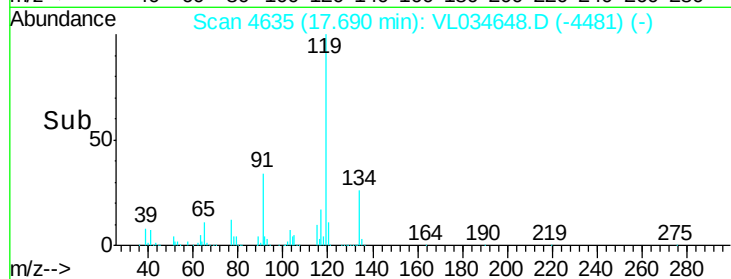
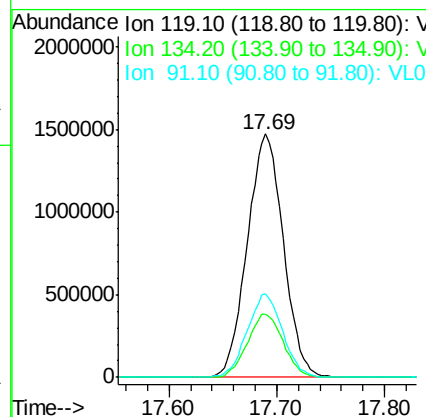
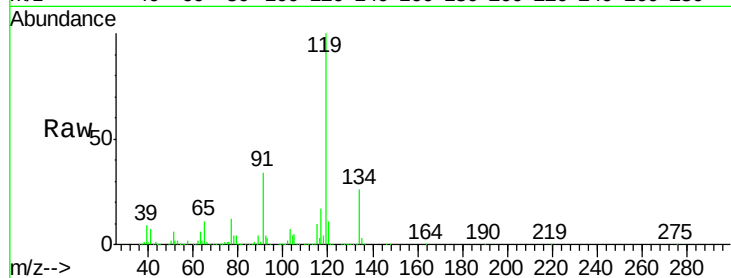
#69
 p-Isopropyltoluene
 Concen: 11.194 ppbv
 RT: 17.69 min Scan# 4635
 Delta R.T. -0.00 min
 Lab File: VL034648.D
 Acq: 19 Feb 2020 11:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.0	20.7	31.1
91	33.7	26.9	40.3

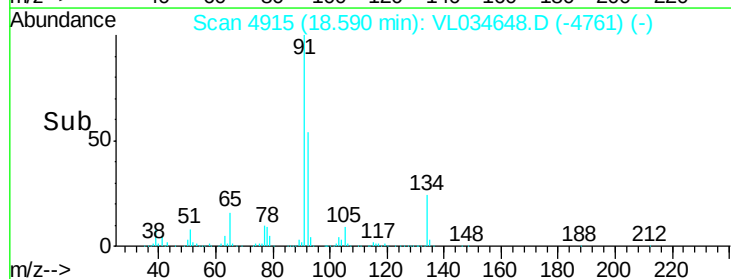
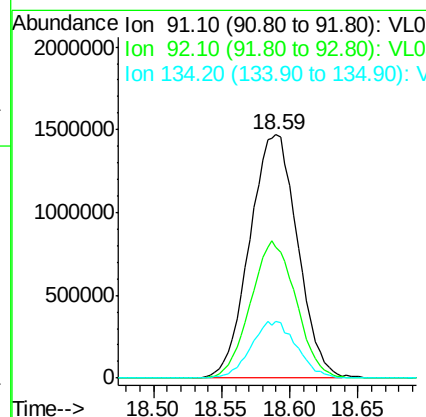
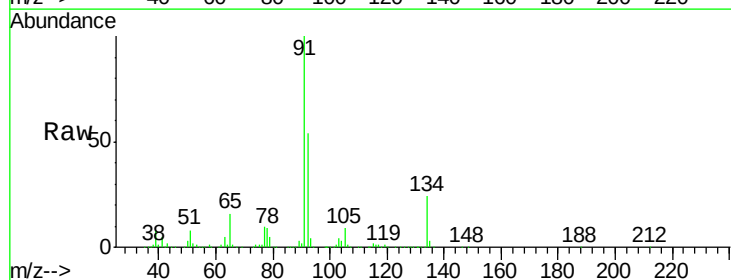
Manual Integrations
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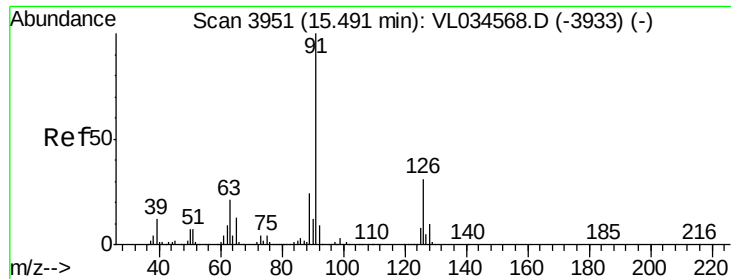
MMDadoda
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#70
 n-Butylbenzene
 Concen: 10.997 ppbv
 RT: 18.59 min Scan# 4915
 Delta R.T. -0.00 min
 Lab File: VL034648.D
 Acq: 19 Feb 2020 11:08

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.7	43.6	65.4
134	22.2	18.2	27.4





#71

2-Chlorotoluene

Concen: 11.023 ppbv

RT: 15.49 min Scan# 3951

Delta R.T. -0.00 min

Lab File: VL034648.D

Acq: 19 Feb 2020 11:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2533059

Ion Ratio Lower Upper

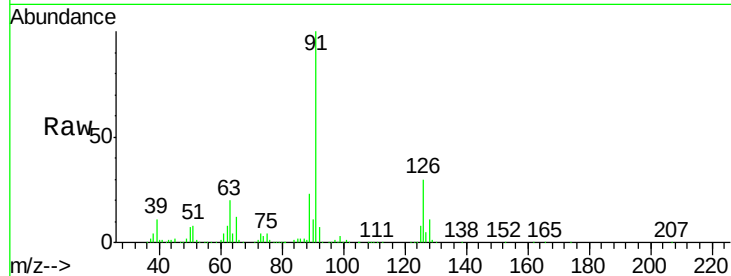
91 100

126 30.4 12.0 47.8

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

Ion 126.10 (125.80 to 126.80): V

2000000

1500000

1000000

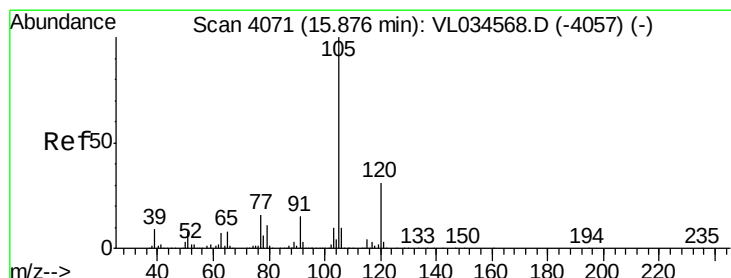
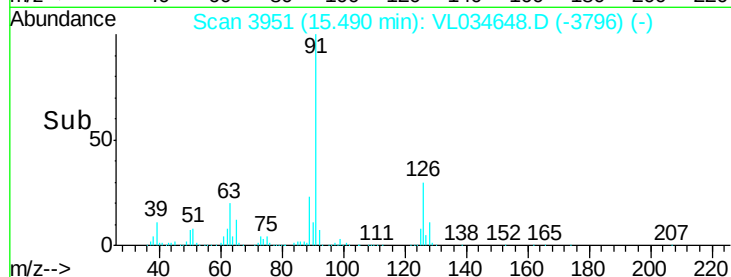
500000

0

15.40

15.50

Time-->



#72

4-Ethyltoluene

Concen: 11.303 ppbv

RT: 15.88 min Scan# 4071

Delta R.T. -0.00 min

Lab File: VL034648.D

Acq: 19 Feb 2020 11:08

Tgt Ion: 105 Resp: 2900472

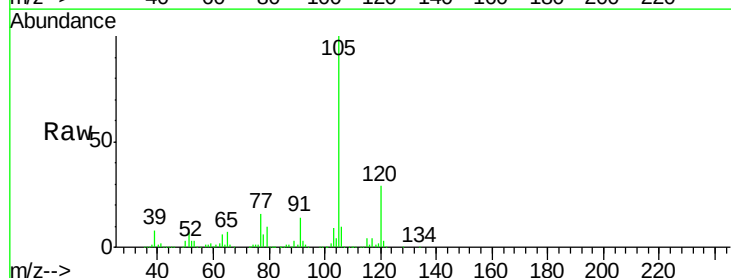
Ion Ratio Lower Upper

105 100

120 29.2 23.8 35.6

91 14.7 11.8 17.8

77 15.9 13.0 19.6



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

1500000

1000000

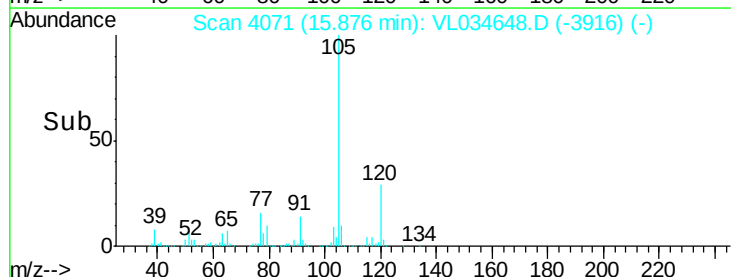
500000

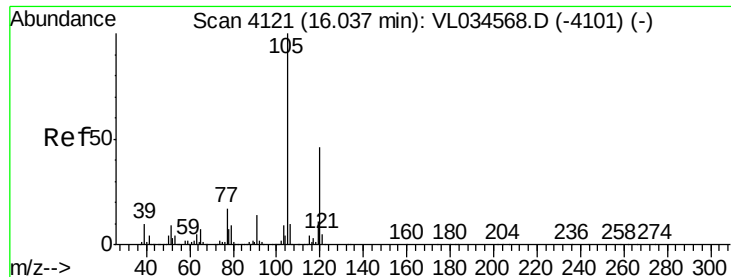
0

15.80

15.90

Time-->





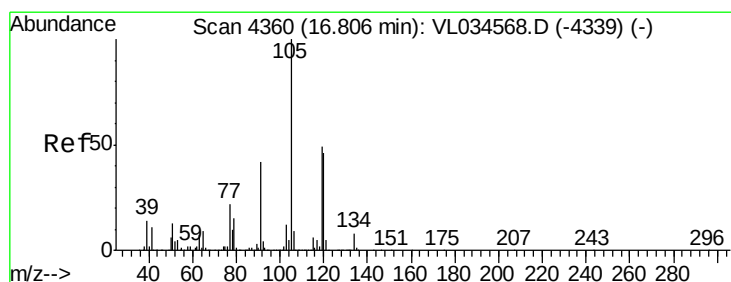
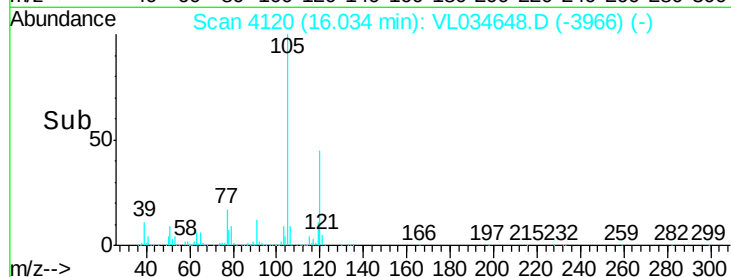
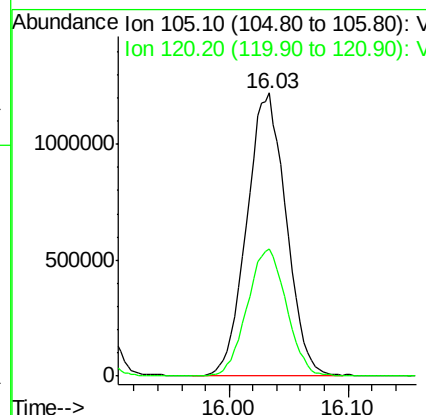
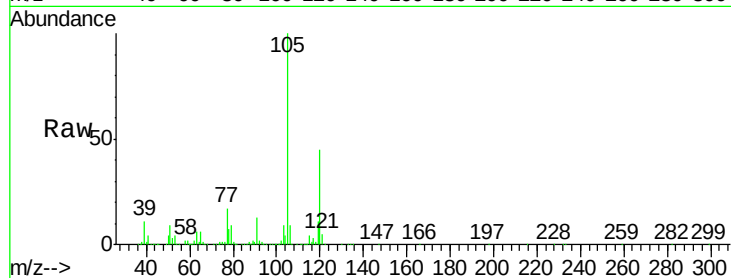
#73
 1,3,5-Trimethylbenzene
 Concen: 11.124 ppbv
 RT: 16.03 min Scan# 4120
 Delta R.T. -0.00 min
 Lab File: VL034648.D
 Acq: 19 Feb 2020 11:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:105 Resp: 2789261
 Ion Ratio Lower Upper
 105 100
 120 44.8 37.0 55.6

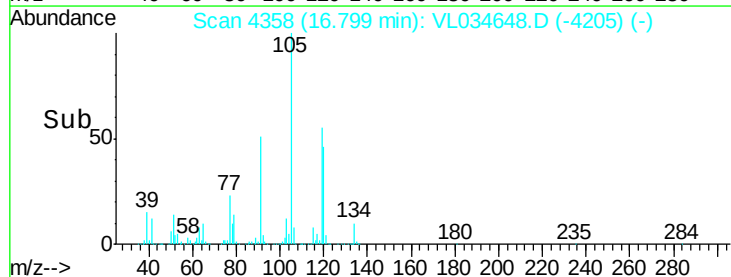
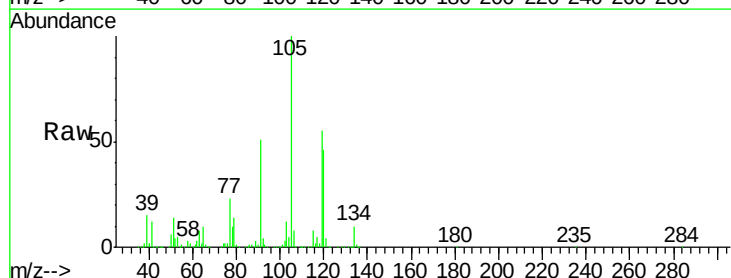
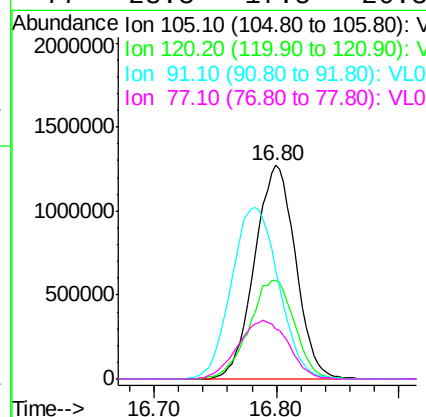
Manual Integrations
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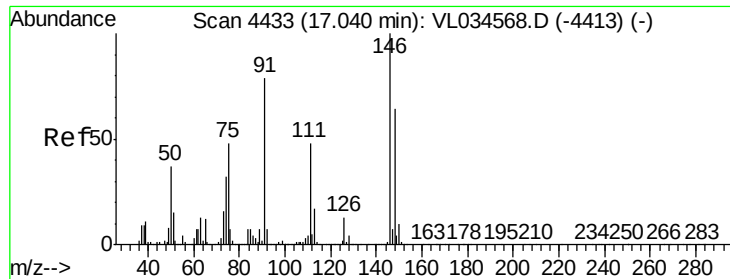
MMDadoda
 2/21/2020 3:23:54 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 10.633 ppbv
 RT: 16.80 min Scan# 4358
 Delta R.T. -0.01 min
 Lab File: VL034648.D
 Acq: 19 Feb 2020 11:08

Tgt Ion:105 Resp: 2951544
 Ion Ratio Lower Upper
 105 100
 120 46.2 37.1 55.7
 91 50.7 34.3 51.5
 77 23.3 17.5 26.3





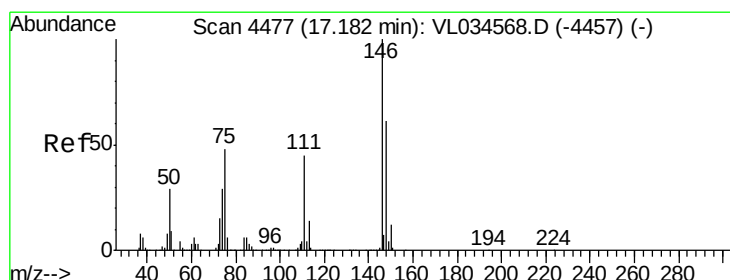
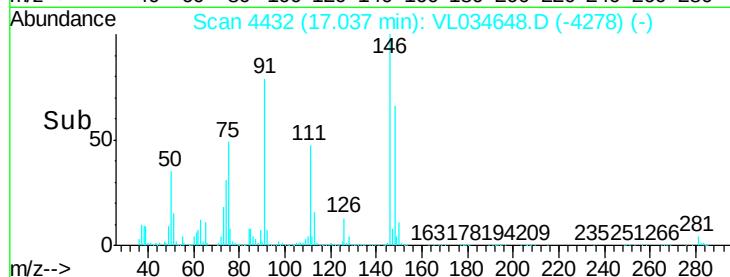
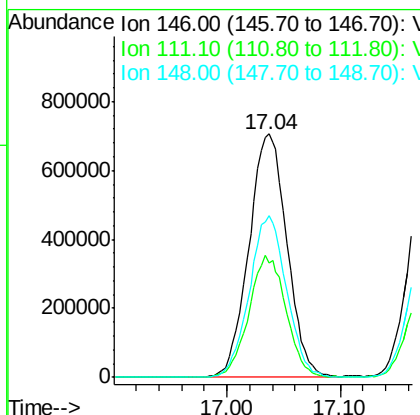
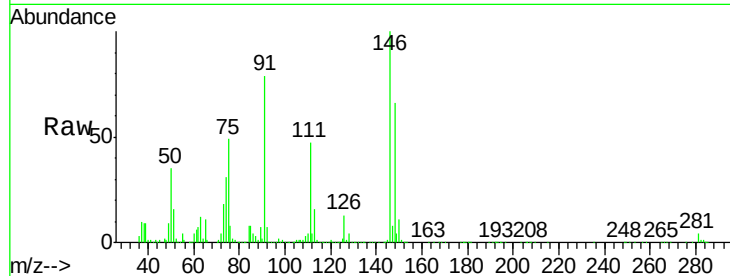
#75
 1,3-Dichlorobenzene
 Concen: 10.317 ppbv
 RT: 17.04 min Scan# 4432
 Delta R.T. -0.00 min
 Lab File: VL034648.D
 Acq: 19 Feb 2020 11:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:146 Resp: 1649016
 Ion Ratio Lower Upper
 146 100
 111 48.9 24.7 74.1
 148 65.0 32.8 98.4

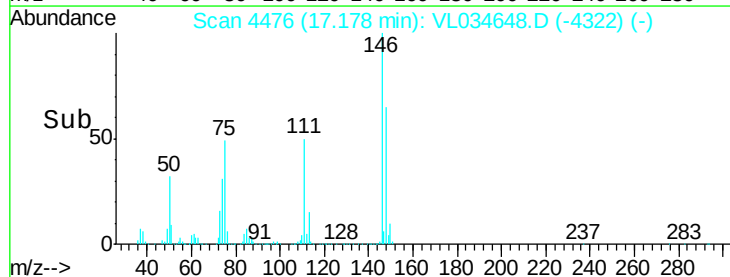
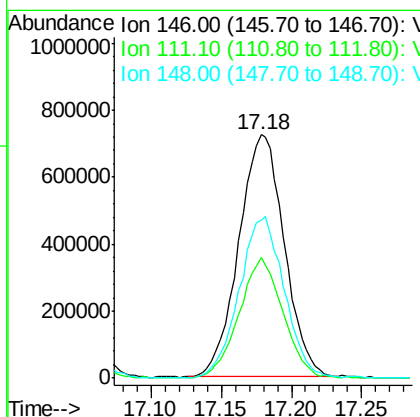
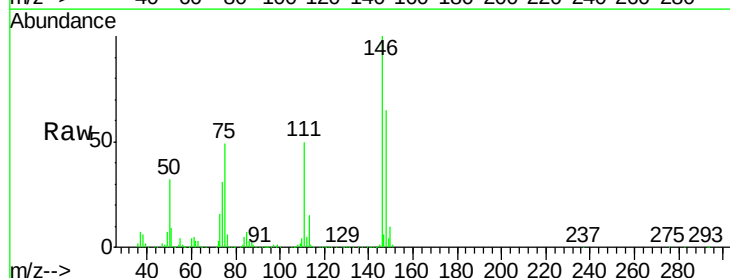
Manual Integrations
 APPROVED

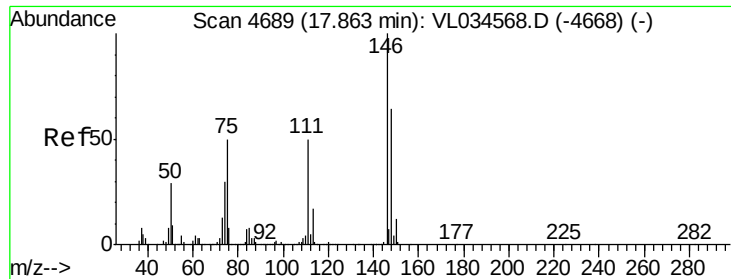
MMDadoda
 2/21/2020 3:23:54 PM



#76
 1,4-Dichlorobenzene
 Concen: 10.379 ppbv
 RT: 17.18 min Scan# 4476
 Delta R.T. -0.00 min
 Lab File: VL034648.D
 Acq: 19 Feb 2020 11:08

Tgt Ion:146 Resp: 1634952
 Ion Ratio Lower Upper
 146 100
 111 48.3 24.1 72.2
 148 66.1 32.6 98.0





#77

1,2-Dichlorobenzene

Concen: 10.179 ppbv

RT: 17.86 min Scan# 4688

Delta R.T. -0.00 min

Lab File: VL034648.D

Acq: 19 Feb 2020 11:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 1562863

Ion Ratio Lower Upper

146 100

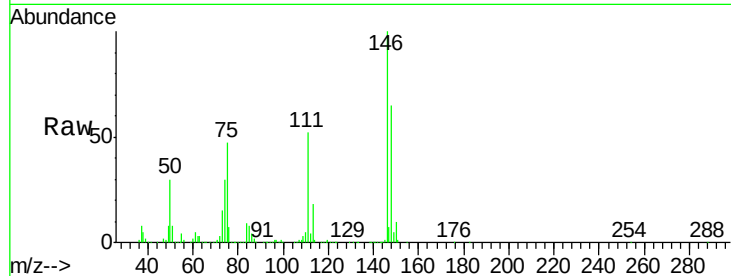
111 50.3 25.1 75.3

148 64.6 32.2 96.6

Manual Integrations
APPROVED

MMDadoda

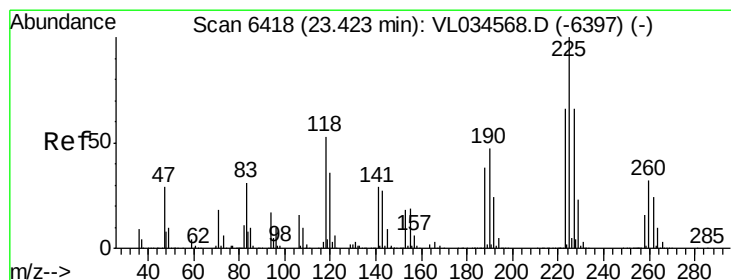
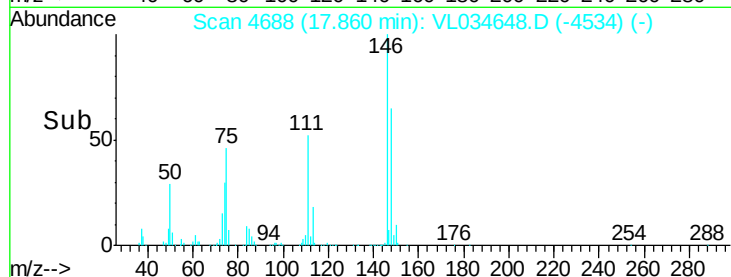
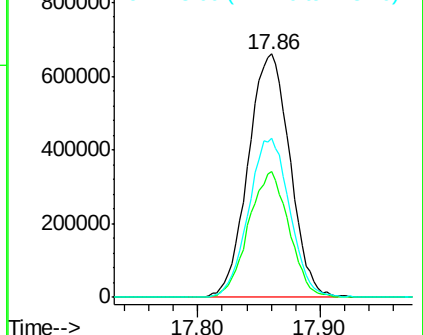
2/21/2020 3:23:54 PM



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 10.037 ppbv

RT: 23.42 min Scan# 6416

Delta R.T. -0.01 min

Lab File: VL034648.D

Acq: 19 Feb 2020 11:08

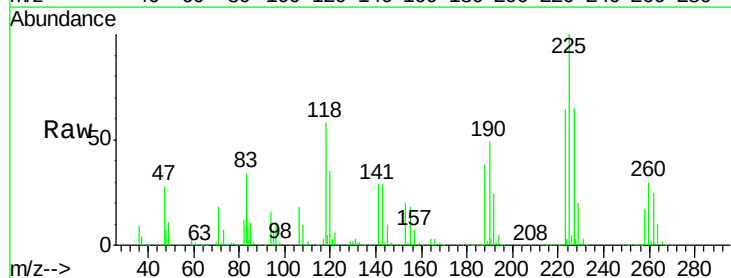
Tgt Ion:225 Resp: 1473620

Ion Ratio Lower Upper

225 100

223 63.1 50.9 76.3

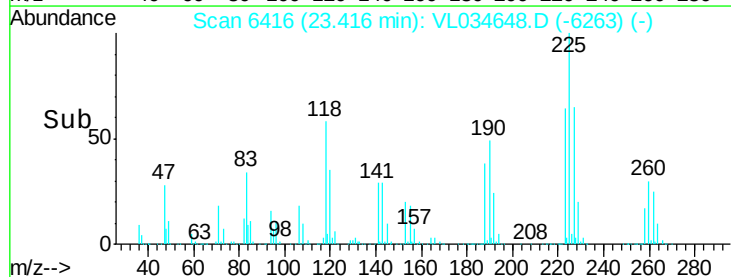
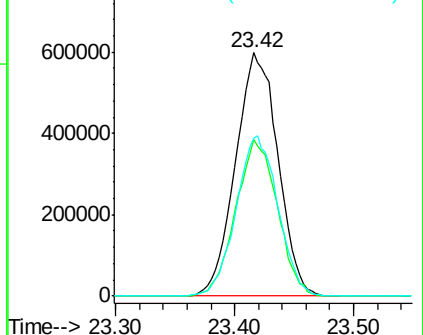
227 65.1 51.6 77.4

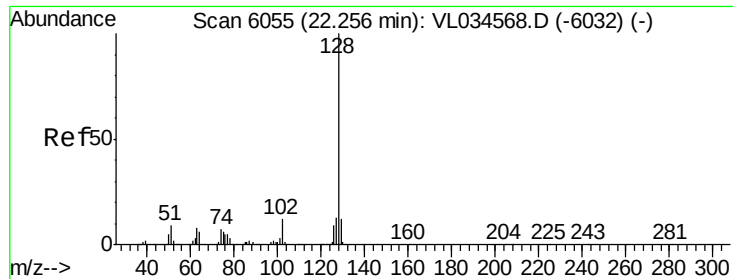


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





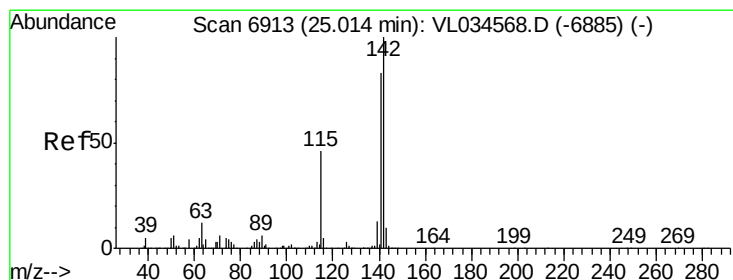
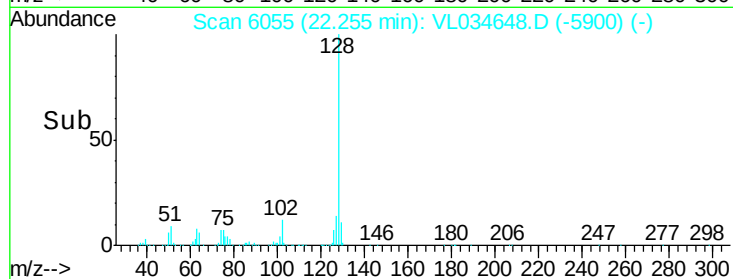
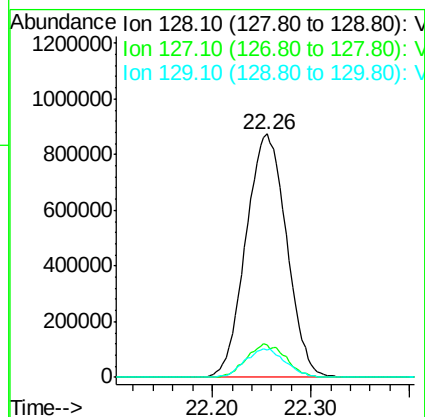
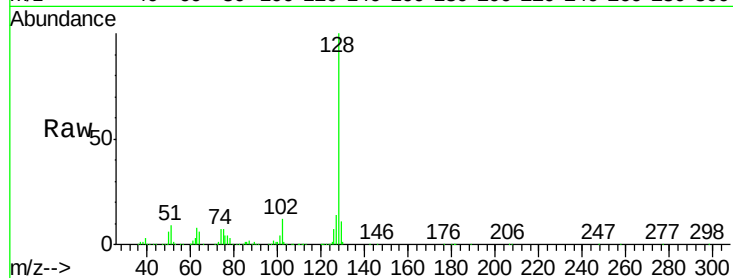
#79
Naphthalene
Concen: 11.401 ppbv
RT: 22.26 min Scan# 6055
Delta R.T. -0.00 min
Lab File: VL034648.D
Acq: 19 Feb 2020 11:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.1	15.1
129	11.3	9.3	13.9

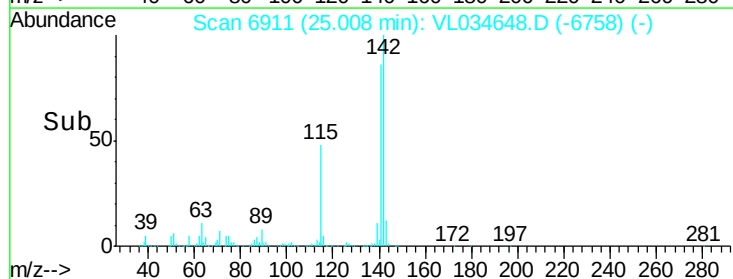
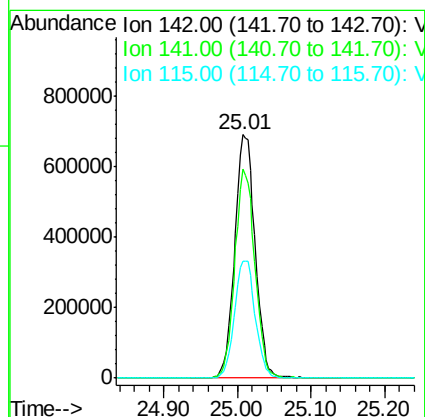
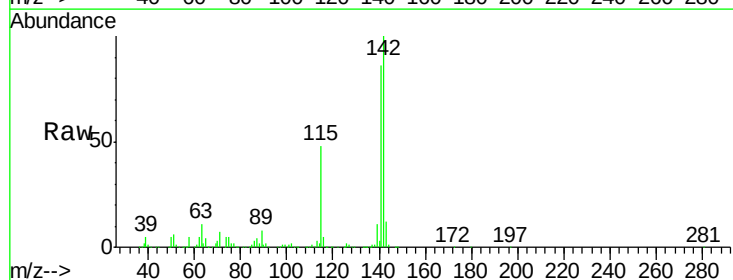
Manual Integrations
APPROVED

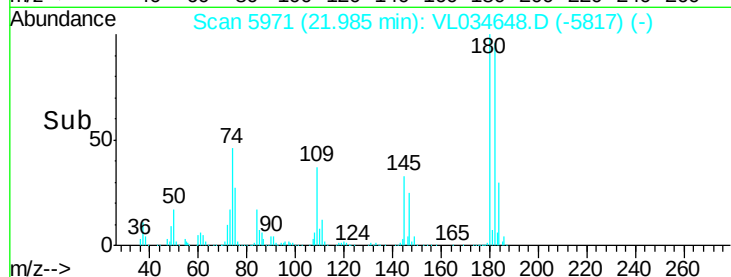
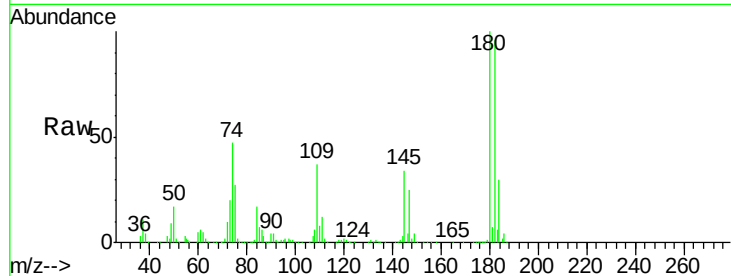
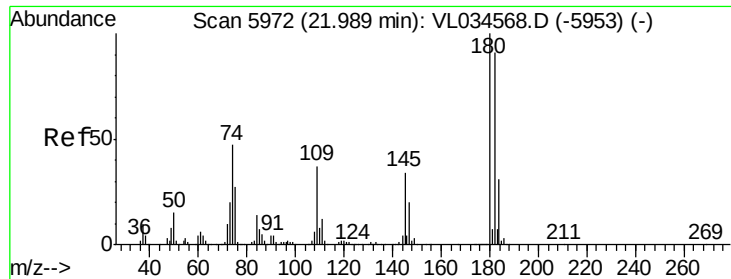
MMDadoda
2/21/2020 3:23:54 PM



#80
Naphthalene, 2-methyl-
Concen: 15.793 ppbv
RT: 25.01 min Scan# 6911
Delta R.T. -0.01 min
Lab File: VL034648.D
Acq: 19 Feb 2020 11:08

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.0	67.0	100.4
115	49.1	39.5	59.3





#81
 1,2,4-Trichlorobenzene
 Concen: 11.333 ppbv m
 RT: 21.99 min Scan# 5971
 Delta R.T. -0.00 min
 Lab File: VL034648.D
 Acq: 19 Feb 2020 11:08

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.0	77.8	116.6
184	30.9	25.4	38.0

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 2/21/2020 3:23:54 PM

