

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL020420\
 Data File : VL034599.D
 Acq On : 5 Feb 2020 9:38
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 2/5/2020 2:51:31 PM

Quant Time: Feb 05 10:23:13 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 2020
 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	1080760	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2193854	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2332453m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1967304	9.98	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.01	85	1283181	5.391	ppbv 91
3) Chlorodifluoromethane	2.94	51	1179452	9.032	ppbv 100
4) Chloromethane	3.10	50	713635	8.931	ppbv 99
5) Vinyl Chloride	3.22	62	682076	8.937	ppbv 99
6) Bromomethane	3.44	94	381160	9.602	ppbv 98
7) Chloroethane	3.52	64	265353	9.349	ppbv 94
8) Dichlorotetrafluoroethane	3.15	85	1658796	8.915	ppbv 98
9) Propene	2.97	41	452144	8.892	ppbv 97
10) Heptane	8.13	43	1255973	9.815	ppbv 99
11) Trichlorofluoromethane	3.92	101	1994177	9.222	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1319181	9.350	ppbv 100
13) Ethanol	3.57	45	122967	9.029	ppbv 95
14) Bromoethene	3.71	108	530400	9.583	ppbv 98
15) Acetone	3.82	43	1366366	8.602	ppbv 98
16) 1,3-Butadiene	3.29	39	624879	9.907	ppbv 99
17) tert-Butyl alcohol	4.27	59	1378873	11.804	ppbv 100
18) 1,1-Dichloroethene	4.26	96	584099	9.807	ppbv 98
19) Isopropyl Alcohol	3.94	45	1073894	11.585	ppbv 100
20) Methylene Chloride	4.32	84	523519	8.656	ppbv 98
21) Allyl Chloride	4.39	41	958831	9.720	ppbv 100
22) trans-1,2-Dichloroethene	4.87	96	594146	9.525	ppbv 93
23) Vinyl Acetate	5.06	43	1750893	9.662	ppbv 98
24) 1,1-Dichloroethane	5.00	63	1387674	9.172	ppbv 99
25) Ethyl Acetate	5.66	43	2372007	9.224	ppbv 100
26) Hexane	5.67	57	1007975	9.358	ppbv 99
27) Carbon Disulfide	4.53	76	1533763	10.553	ppbv 98
28) Methyl tert-Butyl Ether	5.01	73	1768534	9.628	ppbv 100
29) Chloroform	5.75	83	1720943	9.036	ppbv 97
30) Cyclohexane	7.13	84	777247	9.738	ppbv 99
31) cis-1,2-Dichloroethene	5.54	61	1088917	9.731	ppbv 95
32) 1,1,1-Trichloroethane	6.51	97	1830061	8.949	ppbv 99
34) 2-Butanone	5.23	43	1462131	9.179	ppbv 100
35) Carbon Tetrachloride	7.02	117	1974617	9.415	ppbv 97
36) Benzene	6.89	78	1876159	9.616	ppbv 95
37) 1,2-Dichloroethane	6.30	62	1523119	9.357	ppbv 99
38) Trichloroethene	7.84	130	812010	9.874	ppbv 96
39) 1,2-Dichloropropane	7.62	63	757649	9.368	ppbv 97
40) 1,4-Dioxane	7.83	88	329900	10.611	ppbv 81
41) Tetrahydrofuran	6.04	42	784391	9.439	ppbv 99
42) Bromodichloromethane	7.80	83	1905130	9.510	ppbv 97
43) Methyl Methacrylate	8.02	69	805738	10.268	ppbv 97

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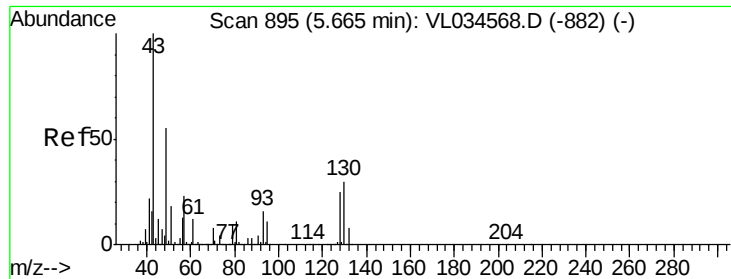
Manual Integrations
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MMDadoda
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 2020
 QLast Update : Thu Jan 30 17:16:44 2020
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	3397047	9.597	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	1117014	10.871	ppbv	98
46) cis-1,3-Dichloropropene	8.72	75	1259084	10.781	ppbv	98
47) 1,1,2-Trichloroethane	9.49	97	819664	9.357	ppbv	98
48) Dibromochloromethane	10.33	129	1584909	9.874	ppbv	99
49) Bromoform	13.08	173	1376461	9.767	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	2191507	9.647	ppbv	99
51) 2-Hexanone	10.15	43	1800637	10.069	ppbv #	98
52) Tetrachloroethene	11.25	164	737977	9.416	ppbv	96
53) Toluene	9.82	91	2187490	10.207	ppbv	100
54) 1,2-Dibromoethane	10.64	107	1239531	9.443	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.16	131	1058678	9.194	ppbv	98
57) Chlorobenzene	12.18	112	1730723	9.017	ppbv	96
58) Ethyl Benzene	12.74	91	2991353	9.584	ppbv	99
59) m/p-Xylene	13.02	91	5179536m	18.773	ppbv	
60) o-Xylene	13.73	91	2585065	9.329	ppbv	99
61) Styrene	13.56	104	1848596	10.006	ppbv	99
62) Isopropylbenzene	14.70	105	3304295	9.203	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.72	83	1776626	8.290	ppbv	99
64) n-propylbenzene	15.60	120	858482	9.293	ppbv	94
65) tert-Butylbenzene	16.79	119	3043083	9.354	ppbv	99
66) Benzyl Chloride	17.03	91	1463667	10.730	ppbv	99
67) sec-Butylbenzene	17.34	105	4193344	9.380	ppbv	99
69) p-Isopropyltoluene	17.70	119	3567282	9.827	ppbv	100
70) n-Butylbenzene	18.59	91	3878255	10.065	ppbv	100
71) 2-Chlorotoluene	15.49	91	2574837	9.447	ppbv	100
72) 4-Ethyltoluene	15.88	105	2880330	9.463	ppbv	99
73) 1,3,5-Trimethylbenzene	16.04	105	2836417	9.537	ppbv	97
74) 1,2,4-Trimethylbenzene	16.80	105	3036619	9.223	ppbv #	92
75) 1,3-Dichlorobenzene	17.04	146	1760630	9.287	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	1744374	9.336	ppbv	99
77) 1,2-Dichlorobenzene	17.87	146	1736060	9.533	ppbv	99
78) Hexachloro-1,3-Butadiene	23.42	225	1776001	10.198	ppbv	100
79) Naphthalene	22.26	128	3113984	12.013	ppbv	96
80) Naphthalene, 2-methyl-	25.01	142	1119092	11.222	ppbv	99
81) 1,2,4-Trichlorobenzene	21.99	180	1913382	11.974	ppbv	98

(#) = 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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ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 1080760

Ion Ratio Lower Upper

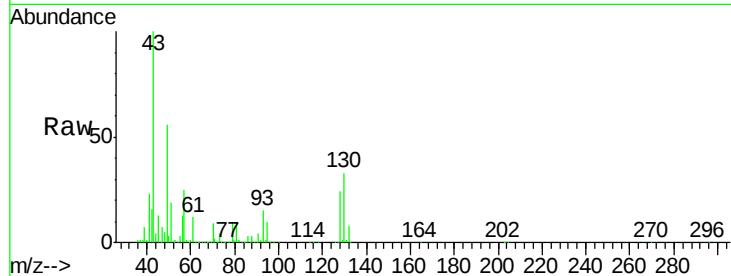
49 100

128 45.2 22.7 68.1

130 58.4 28.6 85.8

Manual Integrations
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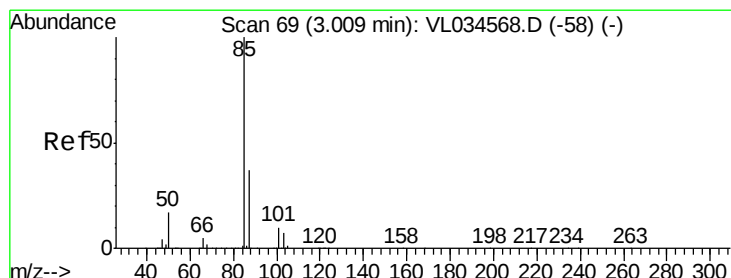
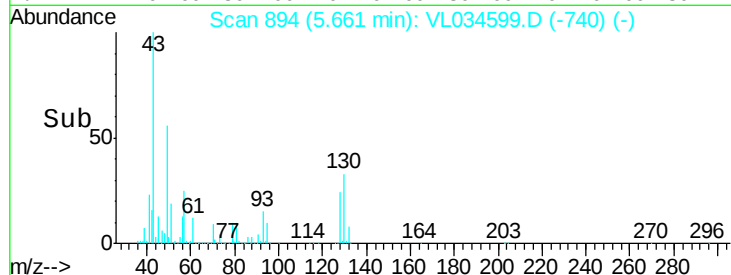
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.66

Time-->



#2

Dichlorodifluoromethane

Concen: 5.391 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL034599.D

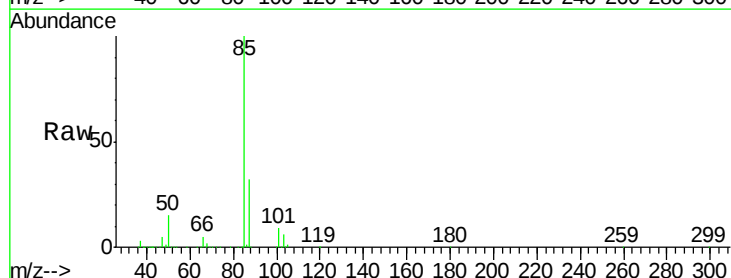
Acq: 5 Feb 2020 9:38

Tgt Ion: 85 Resp: 1283181

Ion Ratio Lower Upper

85 100

87 31.7 29.5 44.3

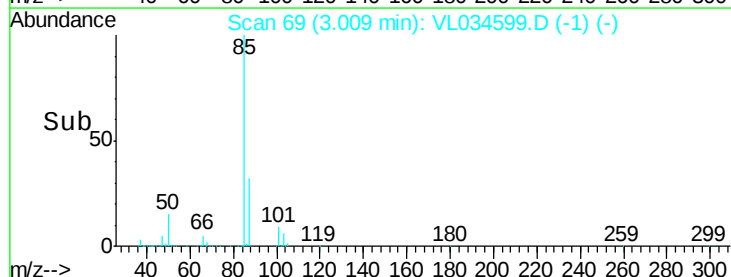


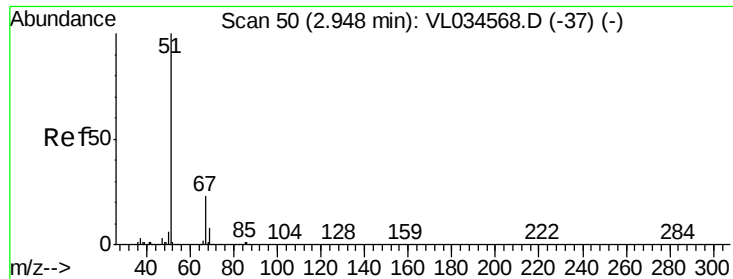
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.01

Time-->





#3

Chlorodifluoromethane

Concen: 9.032 ppbv

RT: 2.94 min Scan# 49

Delta R.T. -0.00 min

Lab File: VL034599.D

Acq: 5 Feb 2020 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 1179452

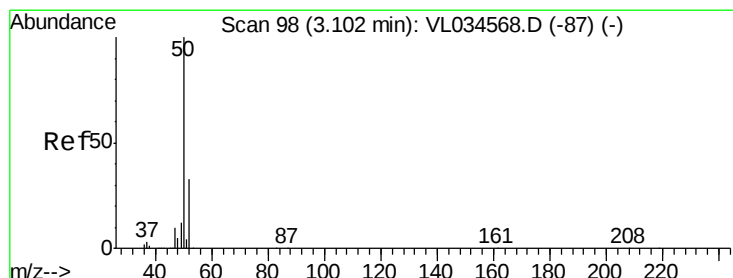
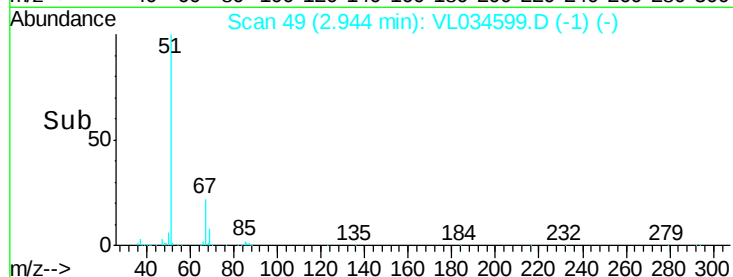
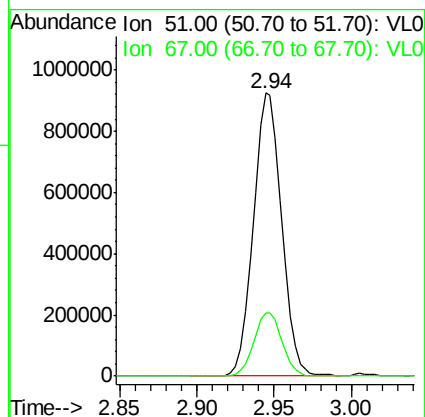
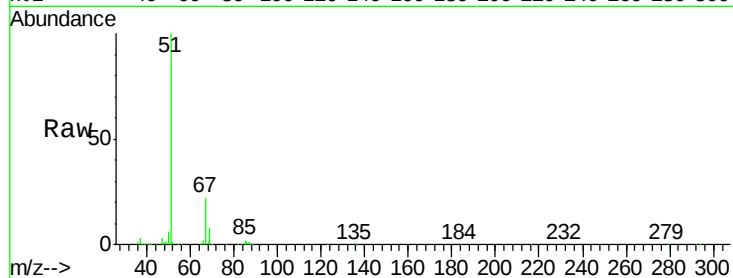
Ion Ratio Lower Upper

51 100

67 22.5 17.8 26.8

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#4

Chloromethane

Concen: 8.931 ppbv

RT: 3.10 min Scan# 97

Delta R.T. -0.00 min

Lab File: VL034599.D

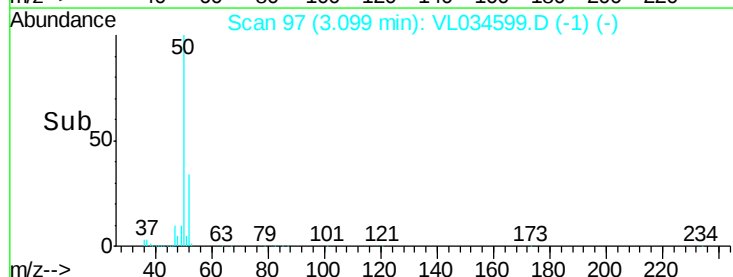
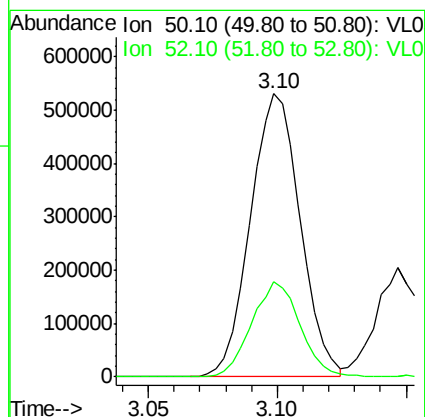
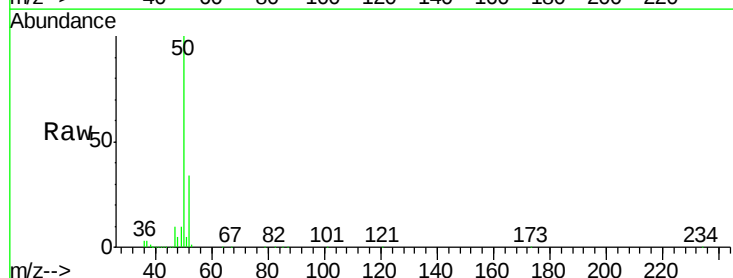
Acq: 5 Feb 2020 9:38

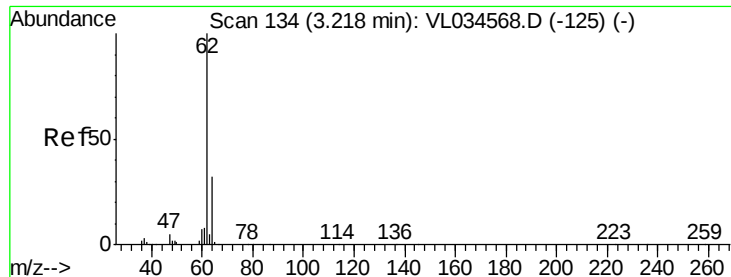
Tgt Ion: 50 Resp: 713635

Ion Ratio Lower Upper

50 100

52 33.6 26.6 39.8





#5

Vinyl Chloride

Concen: 8.937 ppbv

RT: 3.22 min Scan# 134

Delta R.T. -0.00 min

Lab File: VL034599.D

Acq: 5 Feb 2020 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 682076

Ion Ratio Lower Upper

62 100

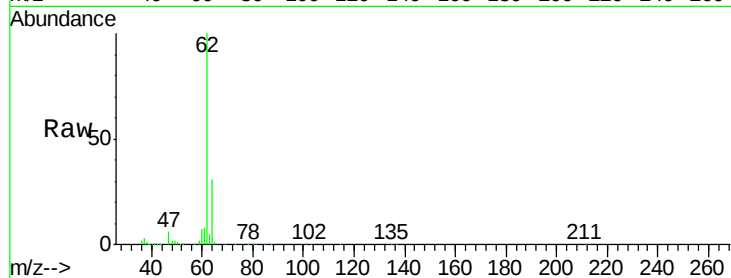
64 31.4 25.8 38.6

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

600000

500000

400000

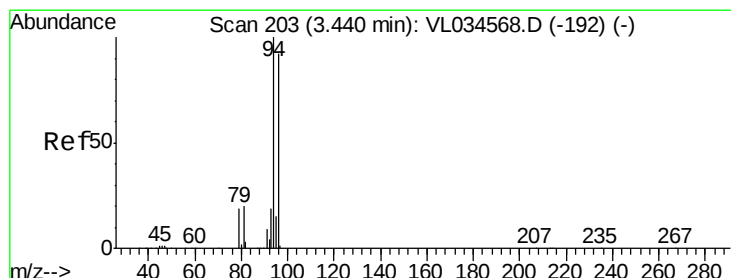
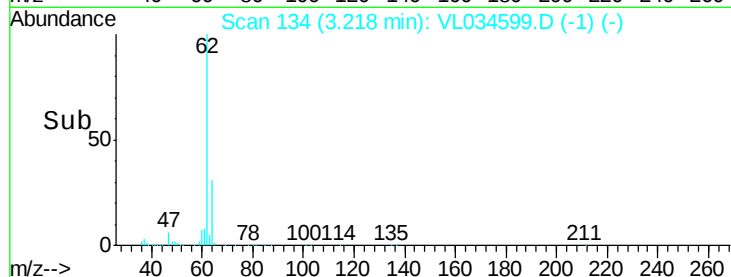
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 9.602 ppbv

RT: 3.44 min Scan# 202

Delta R.T. -0.00 min

Lab File: VL034599.D

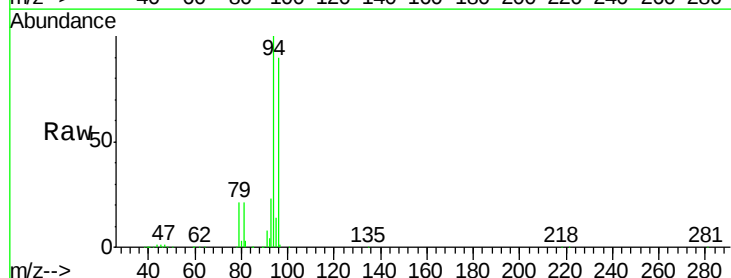
Acq: 5 Feb 2020 9:38

Tgt Ion: 94 Resp: 381160

Ion Ratio Lower Upper

94 100

96 90.0 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

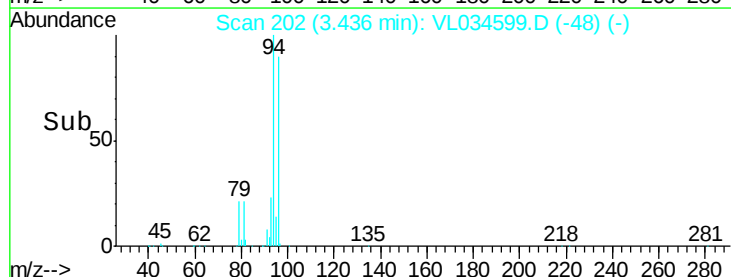
300000

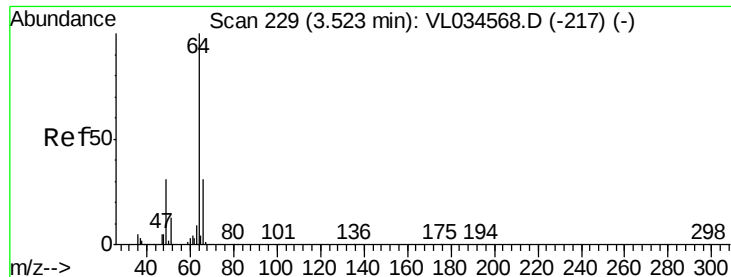
200000

100000

0

Time-->





#7

Chloroethane

Concen: 9.349 ppbv

RT: 3.52 min Scan# 228

Delta R.T. -0.00 min

Lab File: VL034599.D

Acq: 5 Feb 2020 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 265353

Ion Ratio Lower Upper

64 100

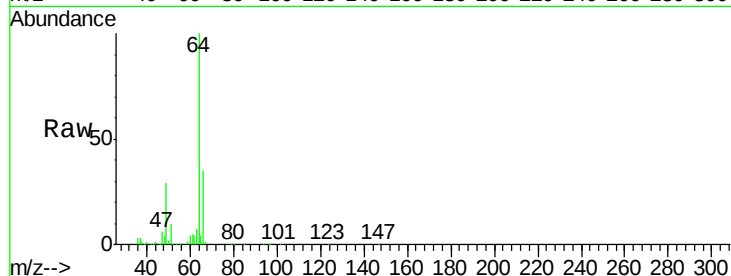
66 34.7 25.0 37.4

Manual Integrations

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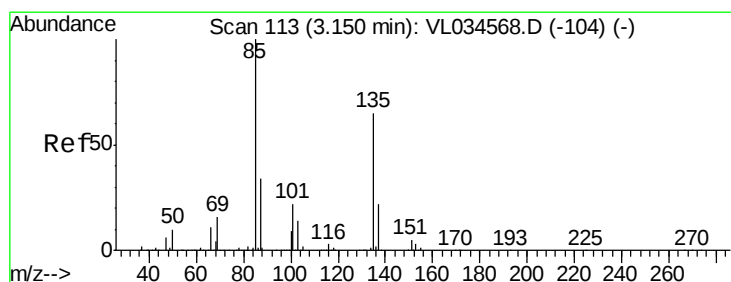
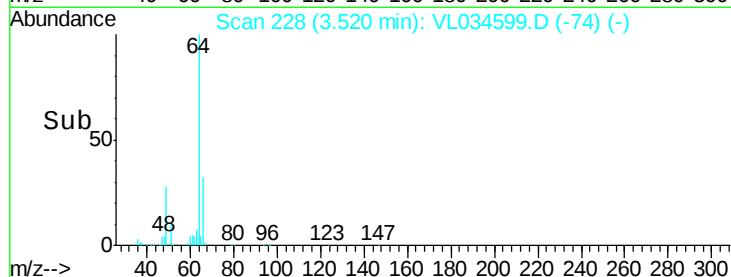
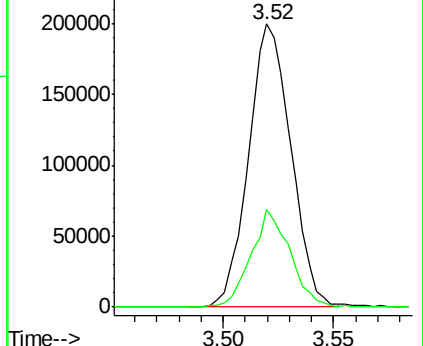
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 8.915 ppbv

RT: 3.15 min Scan# 112

Delta R.T. -0.00 min

Lab File: VL034599.D

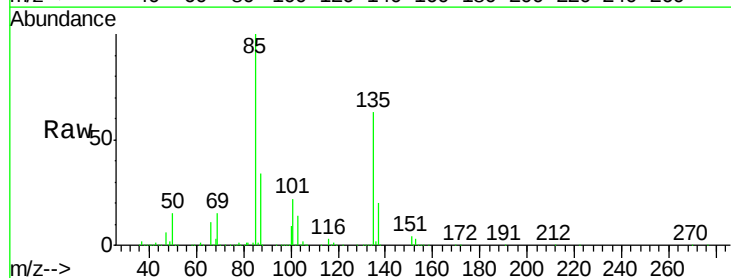
Acq: 5 Feb 2020 9:38

Tgt Ion: 85 Resp: 1658796

Ion Ratio Lower Upper

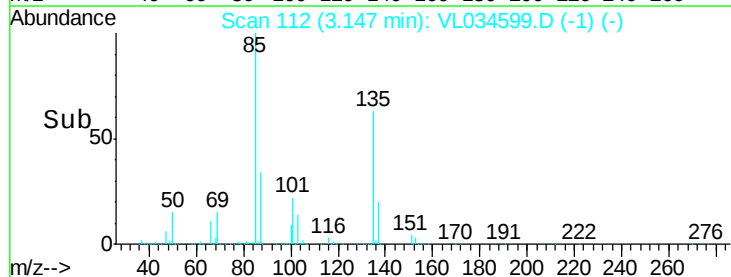
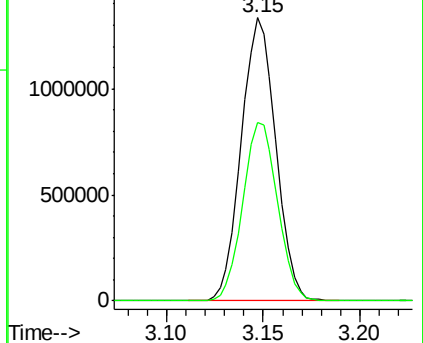
85 100

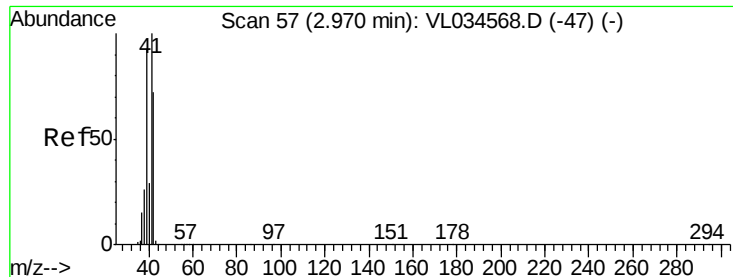
135 63.7 52.2 78.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 8.892 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.00 min

Lab File: VL034599.D

Acq: 5 Feb 2020 9:38

Instrument :

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ClientSampleId :

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Tot Ion: 41 Resp: 452144

Ion Ratio Lower Upper

41 100

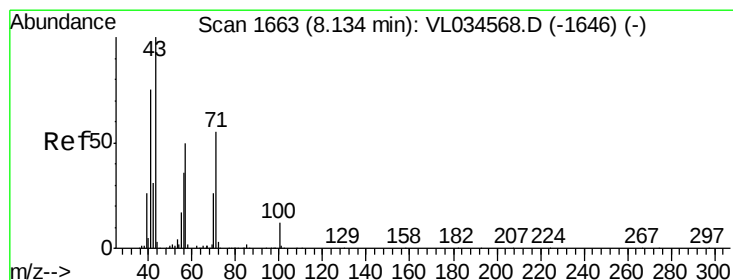
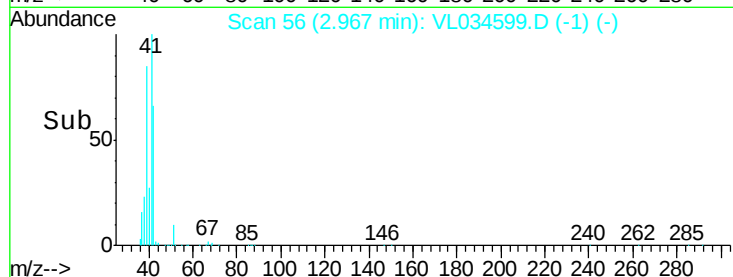
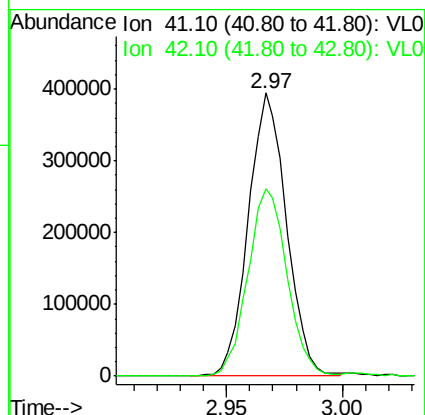
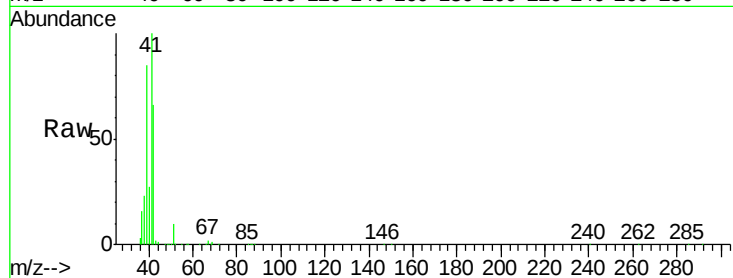
42 69.0 57.0 85.4

Manual Integrations

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#10

Heptane

Concen: 9.815 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. -0.00 min

Lab File: VL034599.D

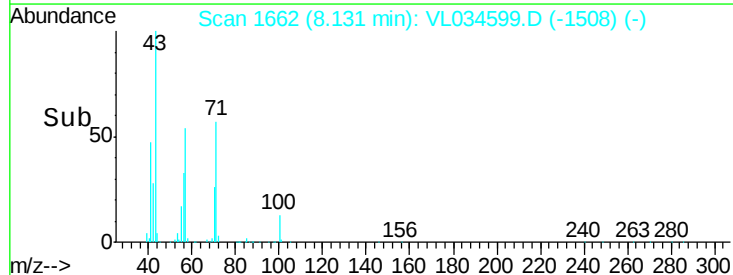
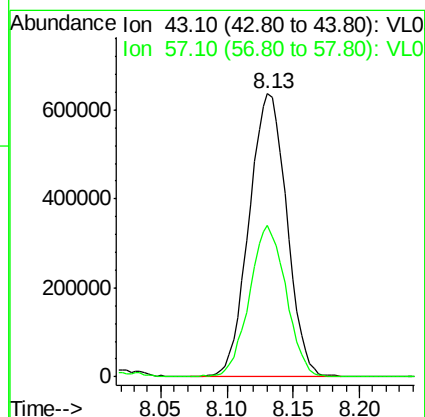
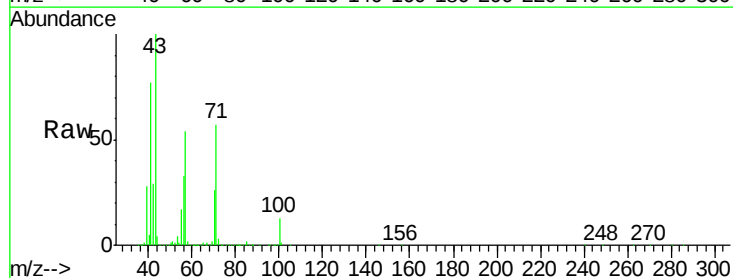
Acq: 5 Feb 2020 9:38

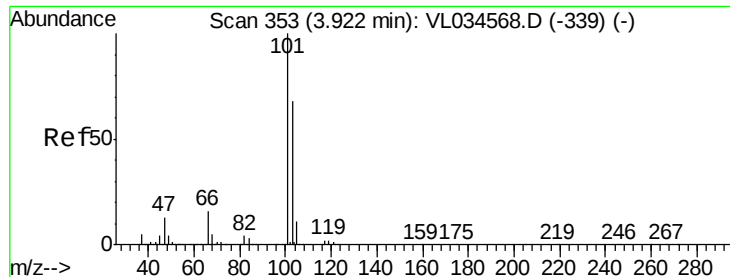
Tgt Ion: 43 Resp: 1255973

Ion Ratio Lower Upper

43 100

57 52.1 41.2 61.8





#11

Trichlorofluoromethane

Concen: 9.222 ppbv

RT: 3.92 min Scan# 352

Delta R.T. -0.00 min

Lab File: VL034599.D

Acq: 5 Feb 2020 9:38

Instrument :

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ClientSampleId :

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Tot Ion:101 Resp: 1994177

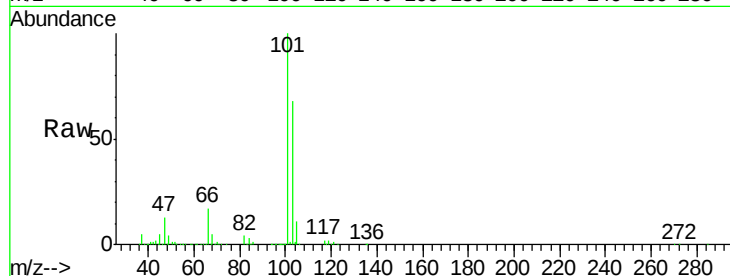
Ion Ratio Lower Upper

101 100

103 68.1 54.4 81.6

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

1500000

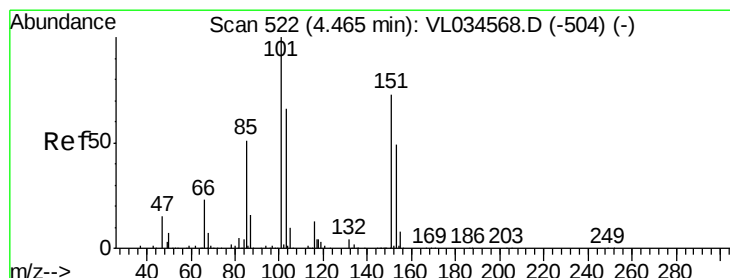
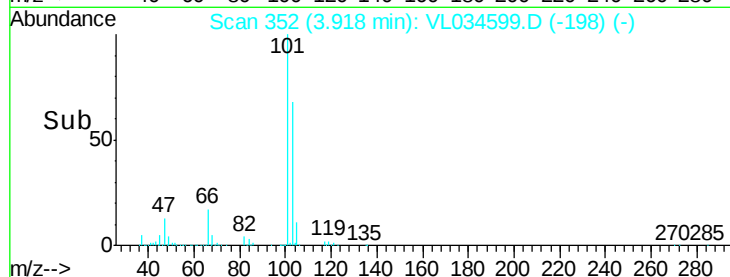
1000000

500000

0

3.85 3.90 3.95

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.350 ppbv

RT: 4.46 min Scan# 520

Delta R.T. -0.01 min

Lab File: VL034599.D

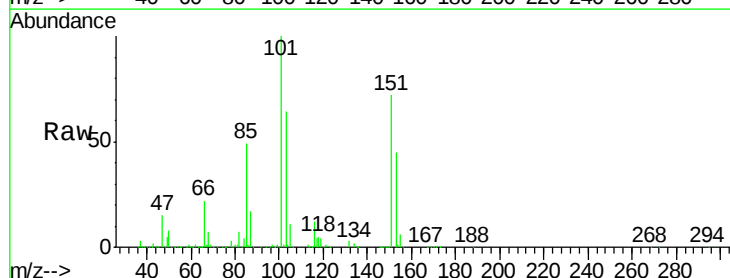
Acq: 5 Feb 2020 9:38

Tgt Ion:101 Resp: 1319181

Ion Ratio Lower Upper

101 100

151 71.6 57.0 85.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

800000

600000

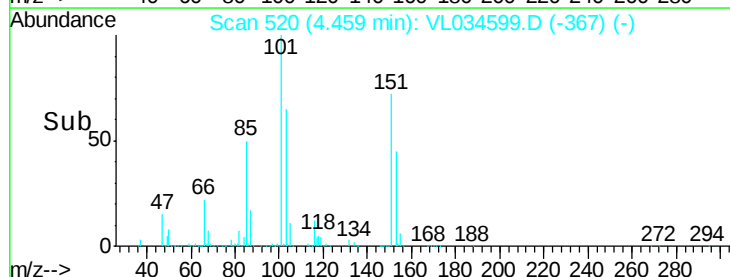
400000

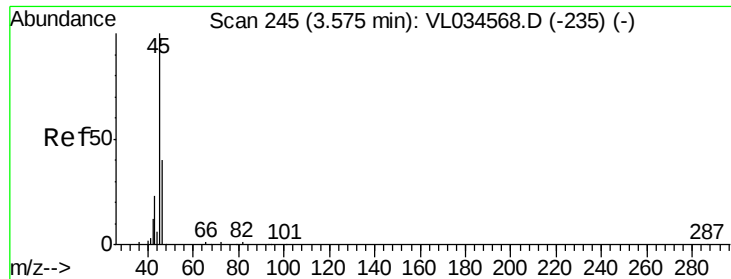
200000

0

4.40 4.45 4.50

Time-->





#13

Ethanol

Concen: 9.029 ppbv

RT: 3.57 min Scan# 244

Delta R.T. -0.00 min

Lab File: VL034599.D

Acq: 5 Feb 2020 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 122967

Ion Ratio Lower Upper

45 100

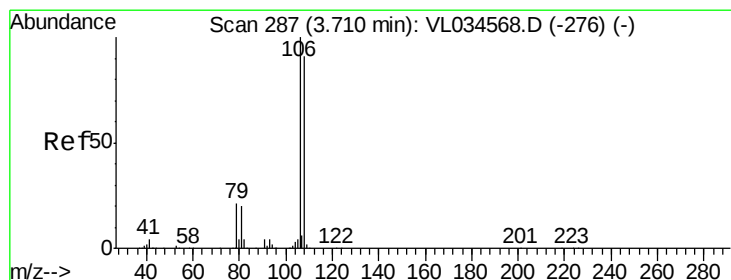
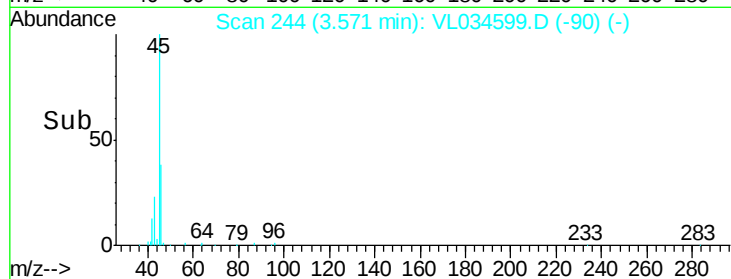
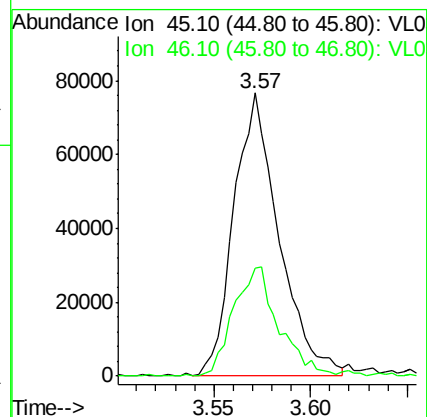
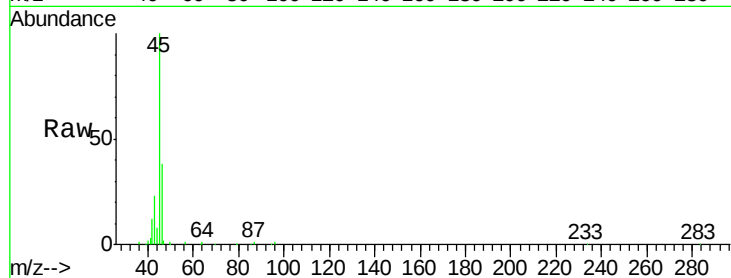
46 40.0 14.8 59.2

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#14

Bromoethene

Concen: 9.583 ppbv

RT: 3.71 min Scan# 286

Delta R.T. -0.00 min

Lab File: VL034599.D

Acq: 5 Feb 2020 9:38

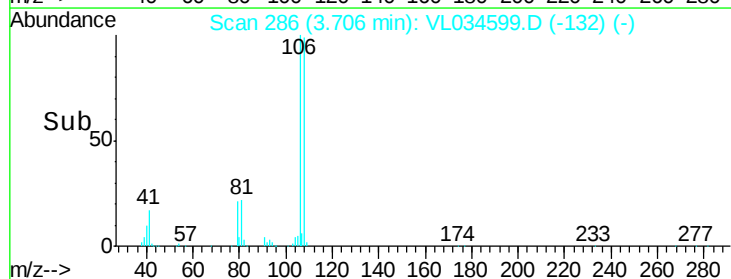
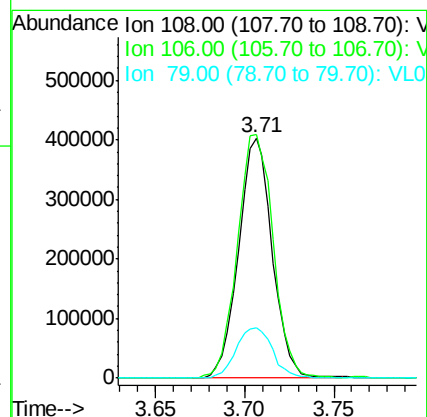
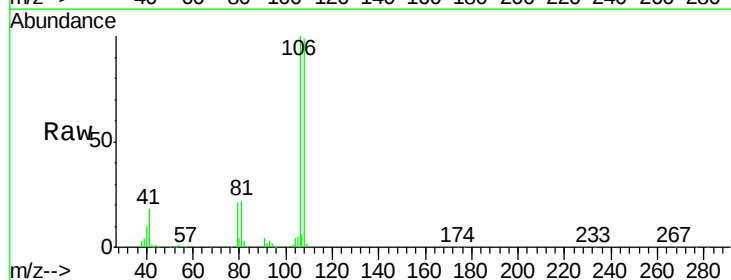
Tgt Ion: 108 Resp: 530400

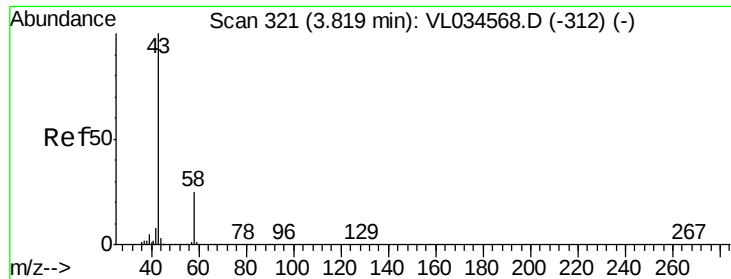
Ion Ratio Lower Upper

108 100

106 108.5 84.6 127.0

79 23.0 18.2 27.2





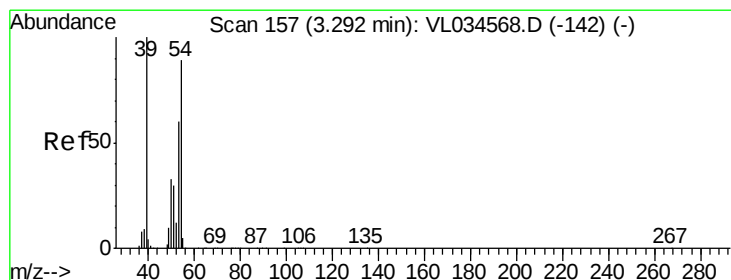
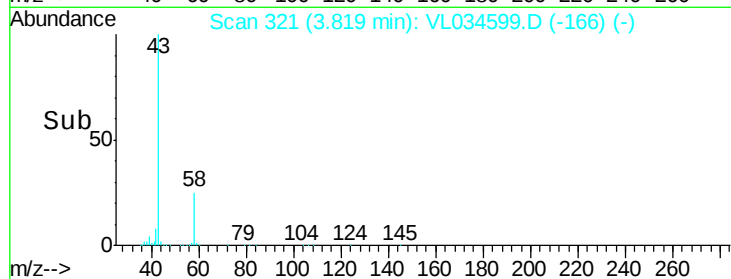
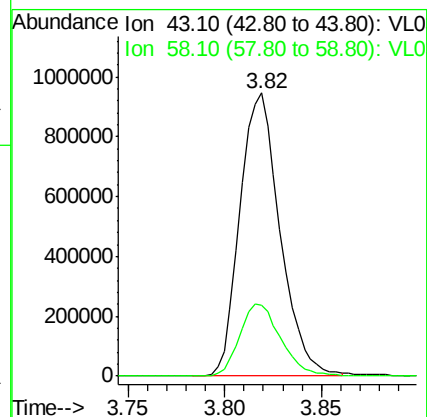
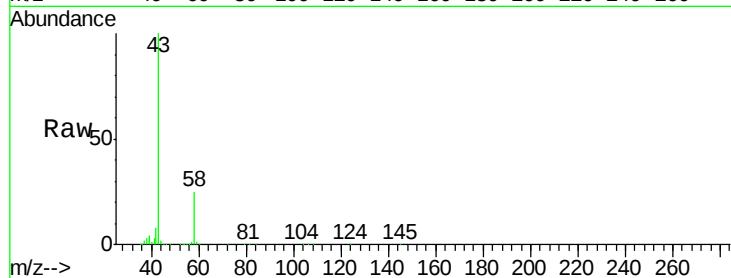
#15
Acetone
Concen: 8.602 ppbv
RT: 3.82 min Scan# 321
Delta R.T. -0.00 min
Lab File: VL034599.D
Acq: 5 Feb 2020 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1366366
Ion Ratio Lower Upper
43 100
58 26.2 20.3 30.5

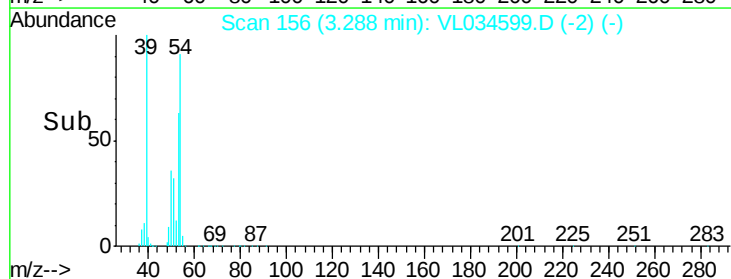
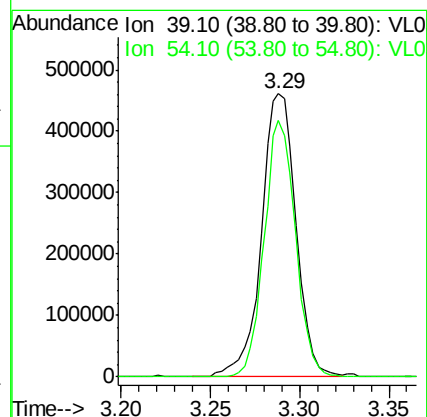
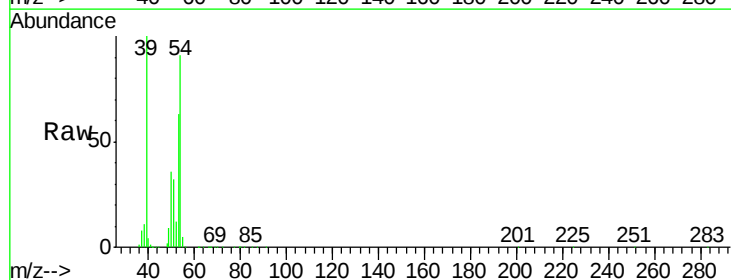
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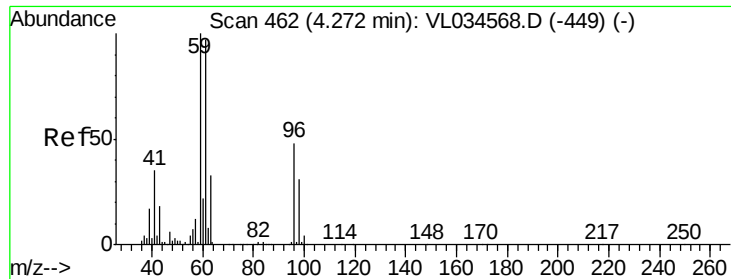
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#16
1,3-Butadiene
Concen: 9.907 ppbv
RT: 3.29 min Scan# 156
Delta R.T. -0.00 min
Lab File: VL034599.D
Acq: 5 Feb 2020 9:38

Tgt Ion: 39 Resp: 624879
Ion Ratio Lower Upper
39 100
54 82.6 66.7 100.1





#17

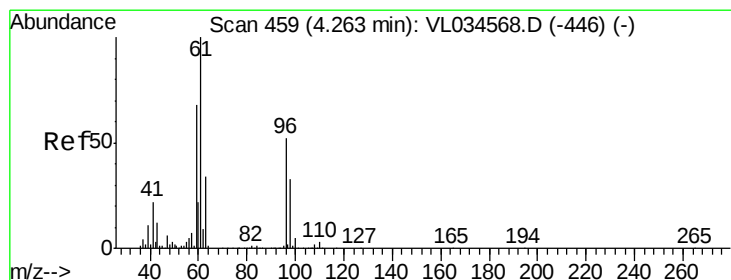
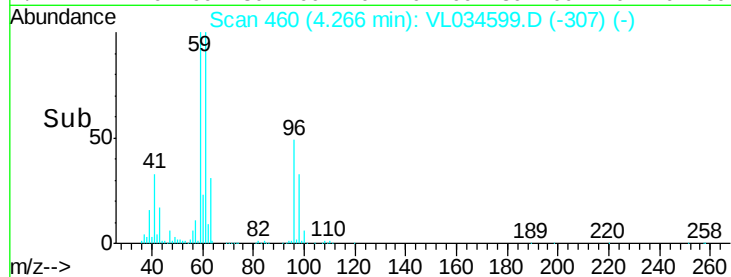
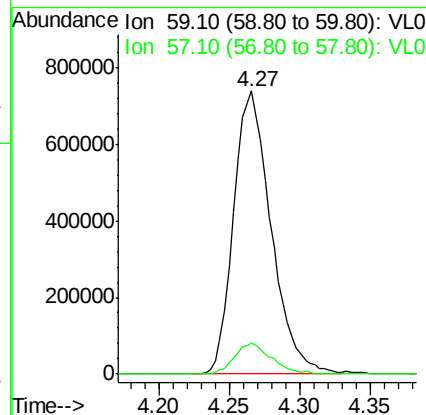
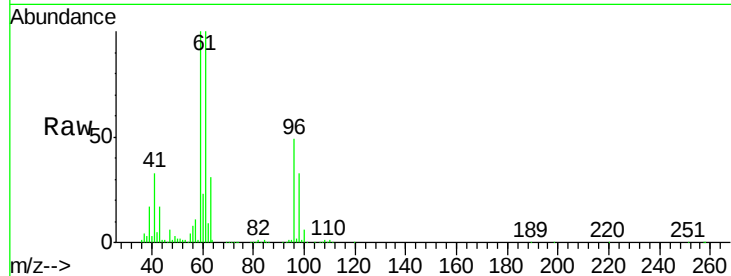
tert-Butyl alcohol
Concen: 11.804 ppbv
RT: 4.27 min Scan# 460
Delta R.T. -0.01 min
Lab File: VL034599.D
Acq: 5 Feb 2020 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 59 Resp: 1378873
Ion Ratio Lower Upper
59 100
57 11.0 8.7 13.1

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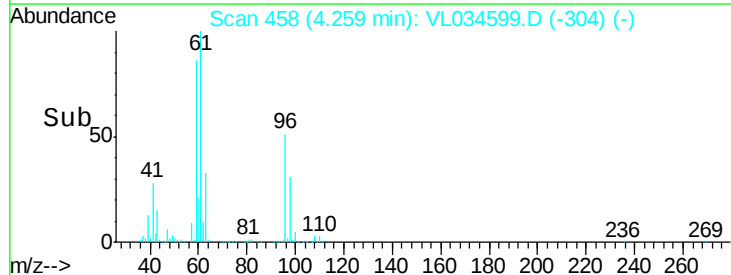
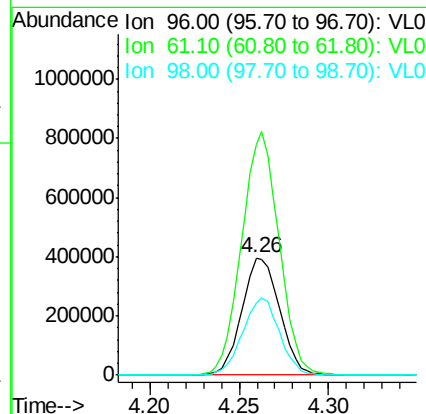
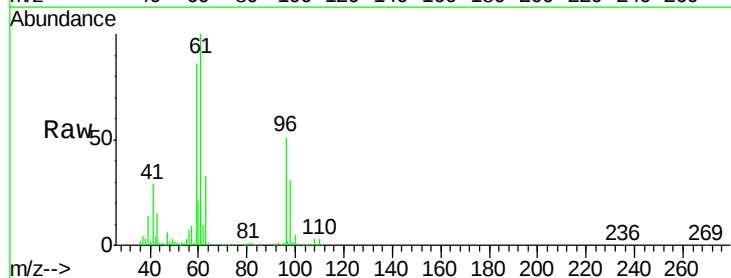
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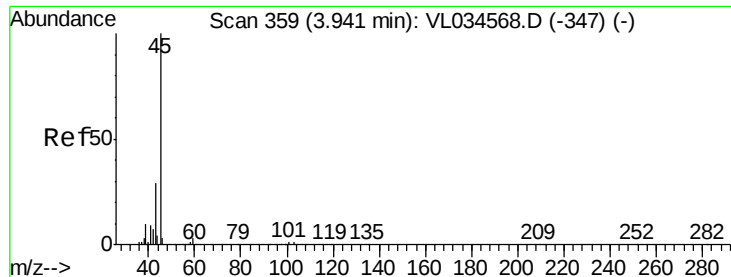


#18

1,1-Dichloroethene
Concen: 9.807 ppbv
RT: 4.26 min Scan# 458
Delta R.T. -0.00 min
Lab File: VL034599.D
Acq: 5 Feb 2020 9:38

Tgt Ion: 96 Resp: 584099
Ion Ratio Lower Upper
96 100
61 197.0 154.5 231.7
98 61.3 50.3 75.5





#19

Isopropyl Alcohol

Concen: 11.585 ppbv

RT: 3.94 min Scan# 358

Delta R.T. -0.00 min

Lab File: VL034599.D

Acq: 5 Feb 2020 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 1073894

Ion Ratio Lower Upper

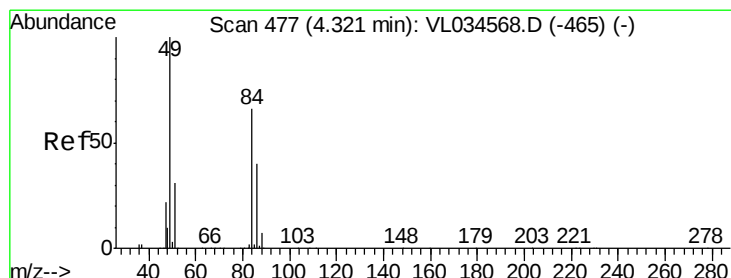
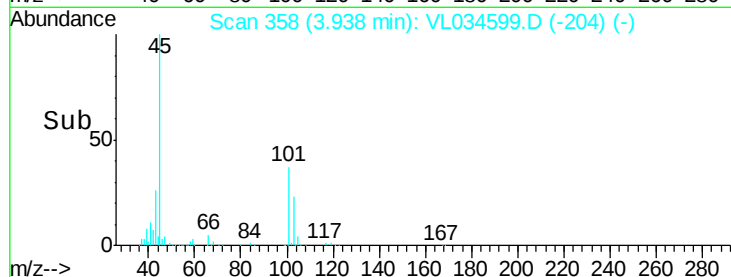
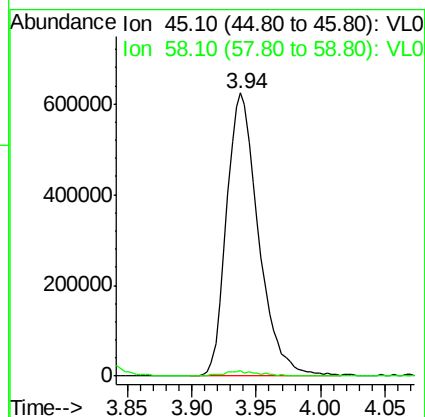
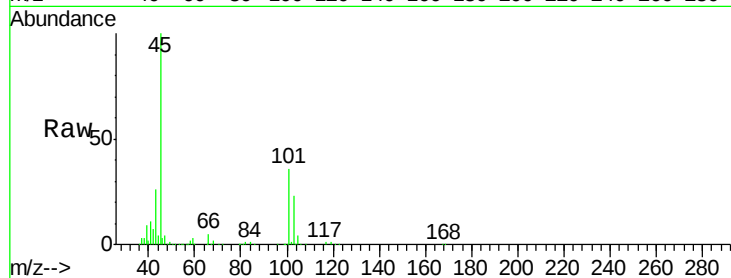
45 100

58 2.2 1.7 2.5

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#20

Methylene Chloride

Concen: 8.656 ppbv

RT: 4.32 min Scan# 476

Delta R.T. -0.00 min

Lab File: VL034599.D

Acq: 5 Feb 2020 9:38

Tgt Ion: 84 Resp: 523519

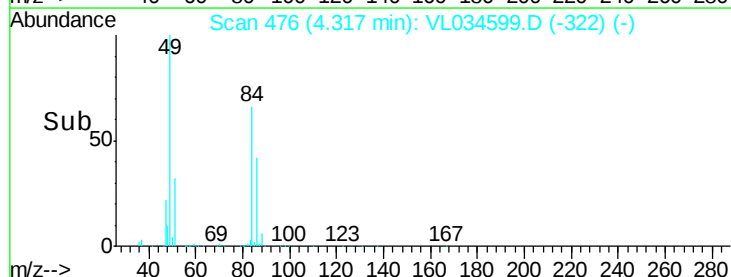
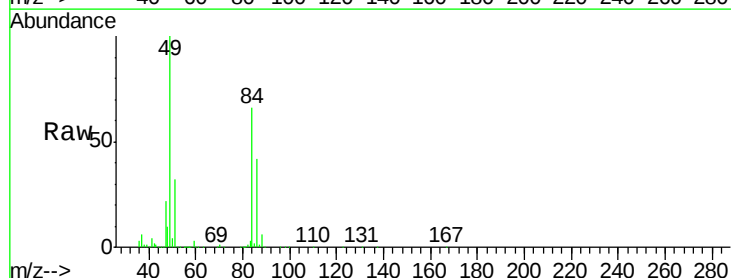
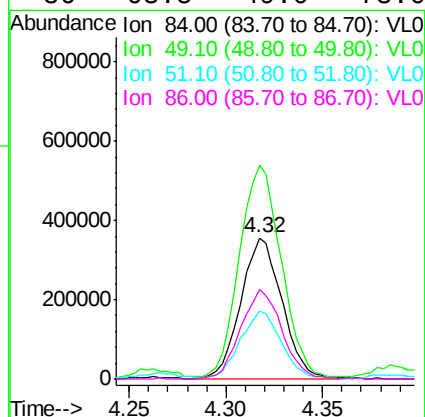
Ion Ratio Lower Upper

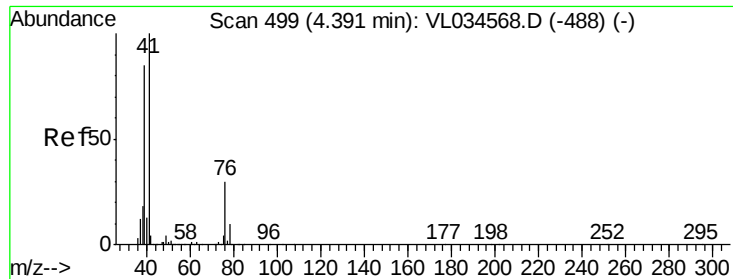
84 100

49 150.2 122.4 183.6

51 48.0 38.6 57.8

86 63.5 49.0 73.6





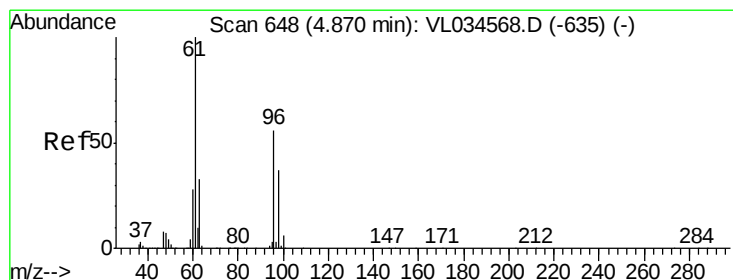
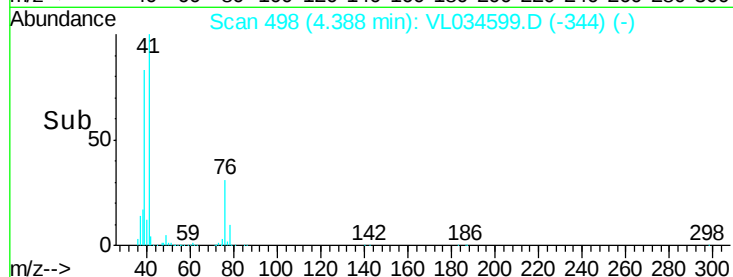
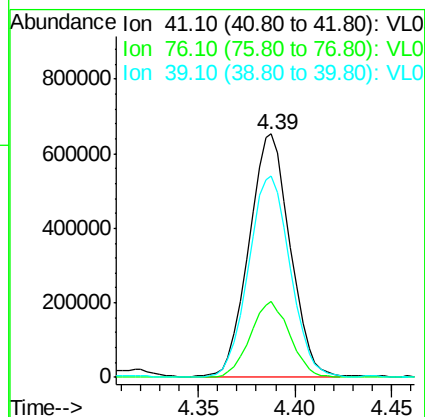
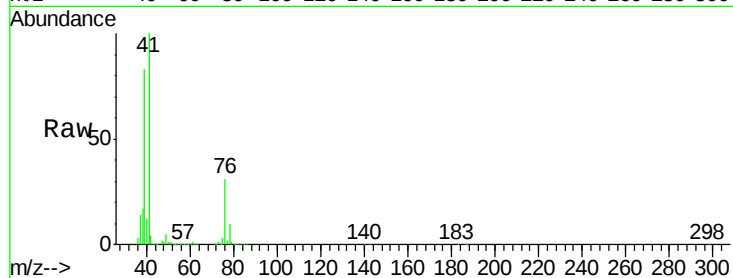
#21
Allvl Chloride
Concen: 9.720 ppbv
RT: 4.39 min Scan# 498
Delta R.T. -0.00 min
Lab File: VL034599.D
Acq: 5 Feb 2020 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.3	24.2	36.2
39	85.1	68.3	102.5

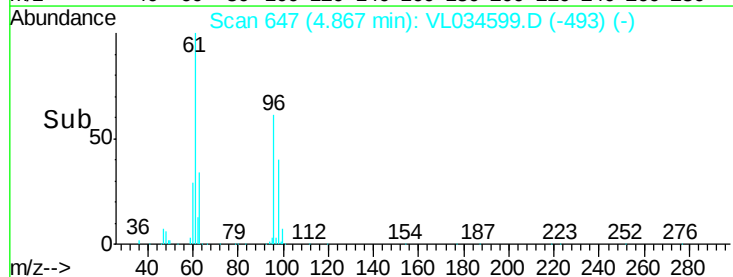
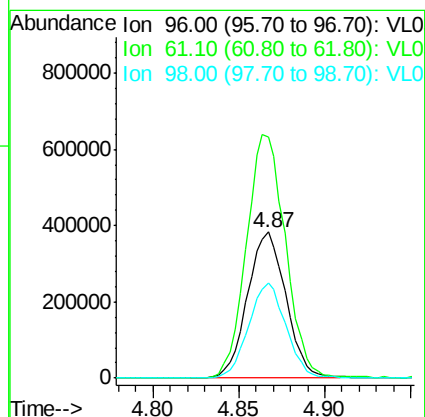
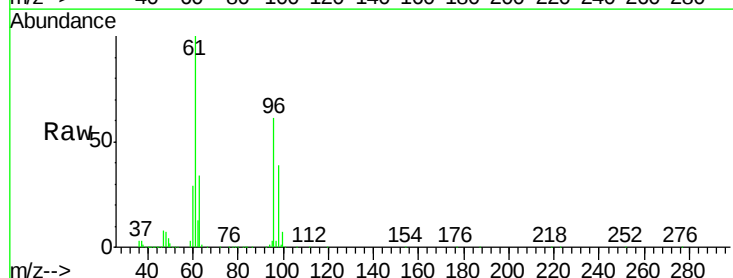
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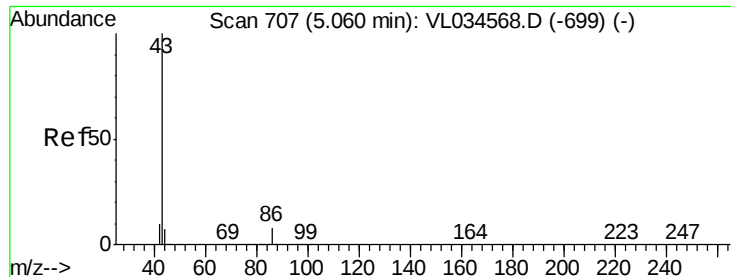
MMDadoda
2/5/2020 2:51:31 PM



#22
trans-1,2-Dichloroethene
Concen: 9.525 ppbv
RT: 4.87 min Scan# 647
Delta R.T. -0.00 min
Lab File: VL034599.D
Acq: 5 Feb 2020 9:38

Tgt Ion	Ratio	Lower	Upper
96	100		
61	165.1	141.9	212.9
98	65.0	53.1	79.7





#23

Vinyl Acetate

Concen: 9.662 ppbv

RT: 5.06 min Scan# 706

Delta R.T. -0.00 min

Lab File: VL034599.D

Acq: 5 Feb 2020 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1750893

Ion Ratio Lower Upper

43 100

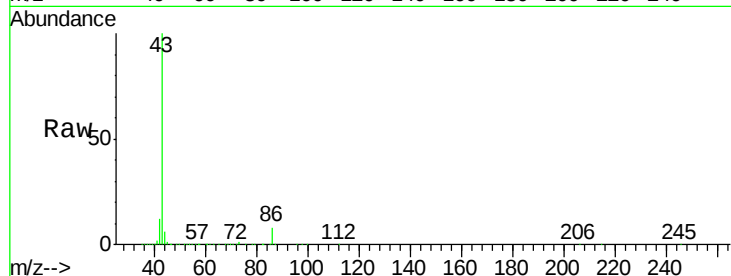
86 7.9 5.9 8.9

42 11.9 8.8 13.2

44 5.9 5.0 7.6

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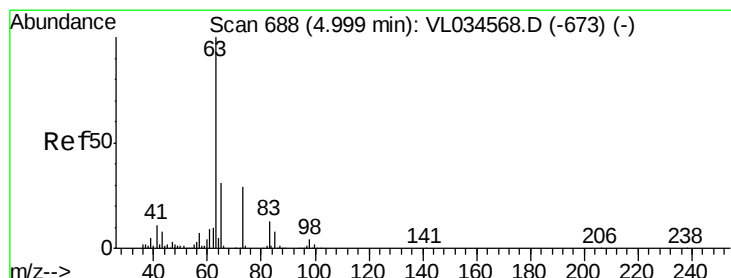
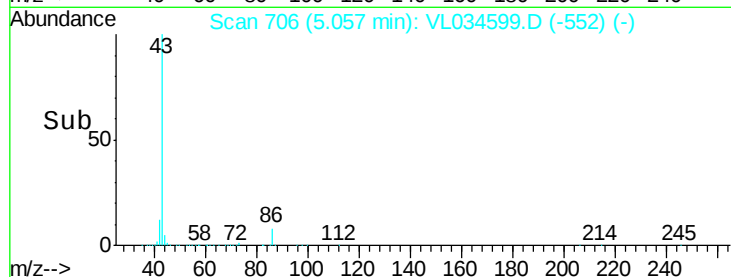
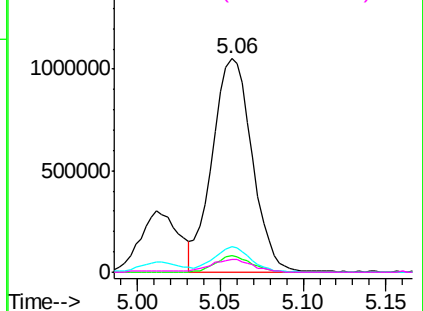


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.172 ppbv

RT: 5.00 min Scan# 687

Delta R.T. -0.00 min

Lab File: VL034599.D

Acq: 5 Feb 2020 9:38

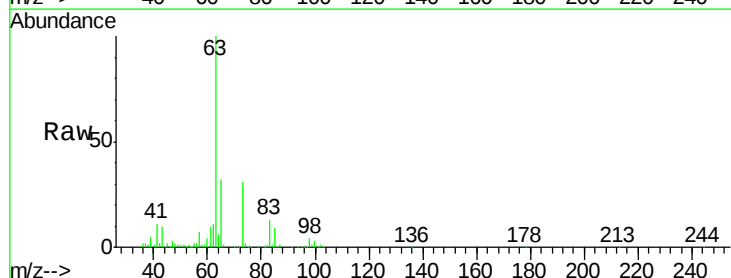
Tgt Ion: 63 Resp: 1387674

Ion Ratio Lower Upper

63 100

98 3.8 2.1 6.2

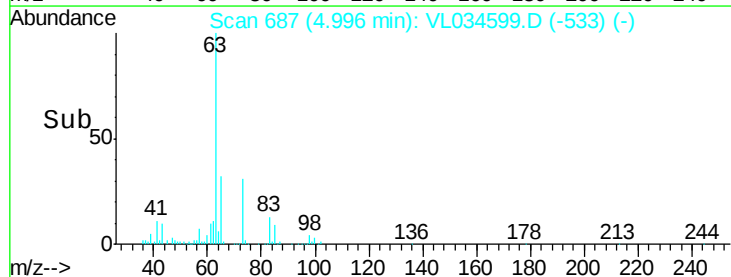
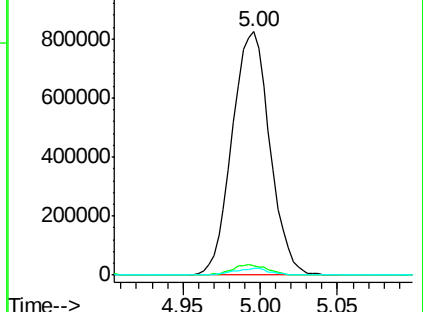
100 2.7 1.1 3.5

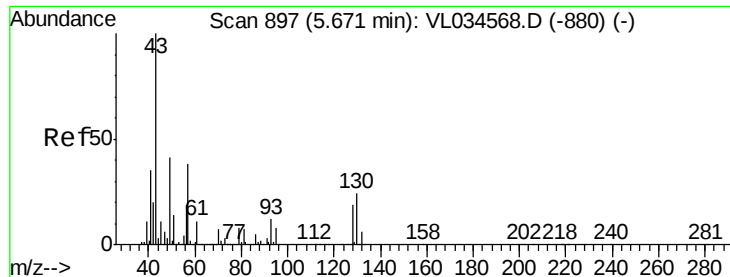


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.224 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL034599.D

Acq: 5 Feb 2020 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2372007

Ion Ratio Lower Upper

43 100

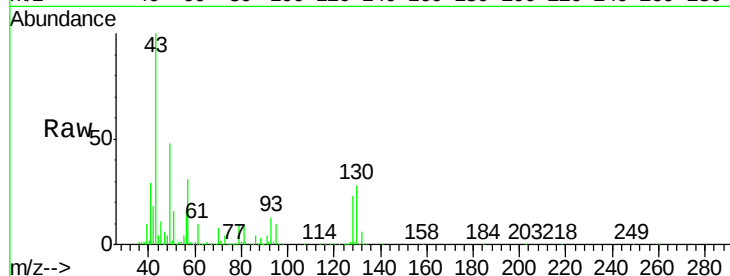
45 10.4 8.5 12.7

61 9.5 7.8 11.6

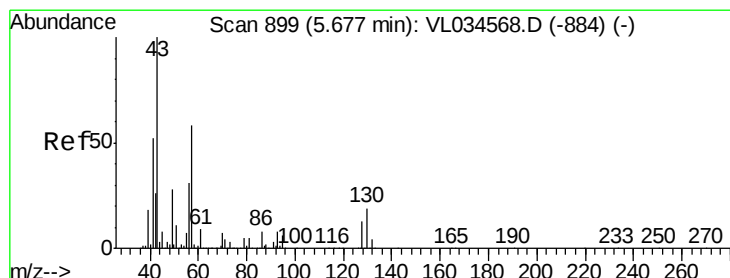
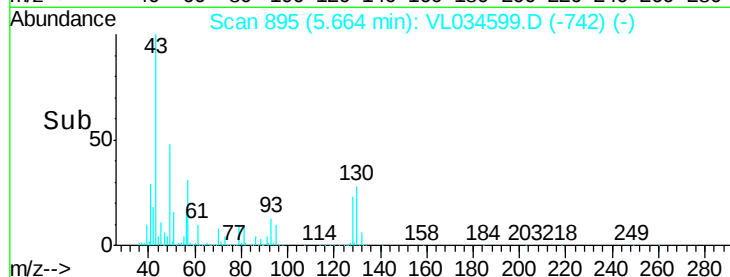
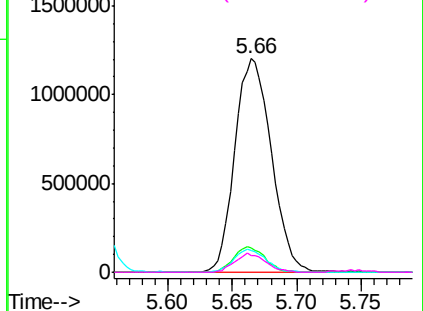
70 7.4 5.8 8.8

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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: 9.358 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.00 min

Lab File: VL034599.D

Acq: 5 Feb 2020 9:38

Tgt Ion: 57 Resp: 1007975

Ion Ratio Lower Upper

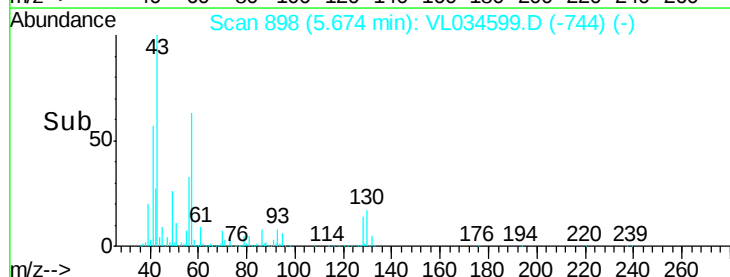
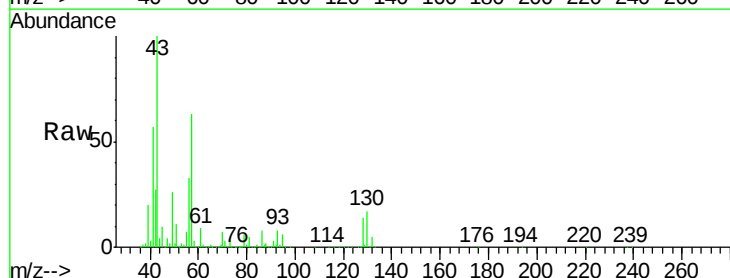
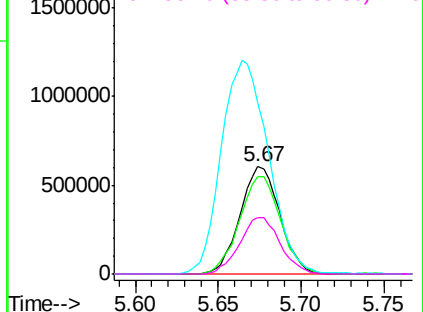
57 100

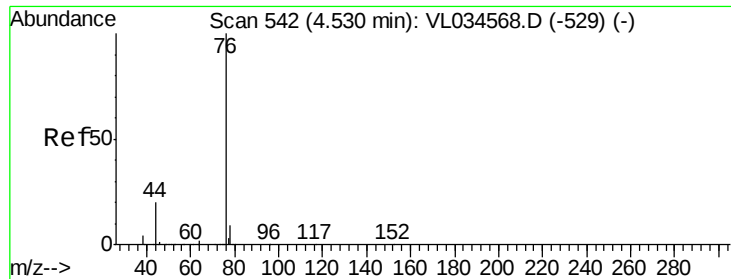
41 94.0 76.2 114.2

43 236.2 189.9 284.9

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: 10.553 ppbv

RT: 4.53 min Scan# 541

Delta R.T. -0.00 min

Lab File: VL034599.D

Acq: 5 Feb 2020 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1533763

Ion Ratio Lower Upper

76 100

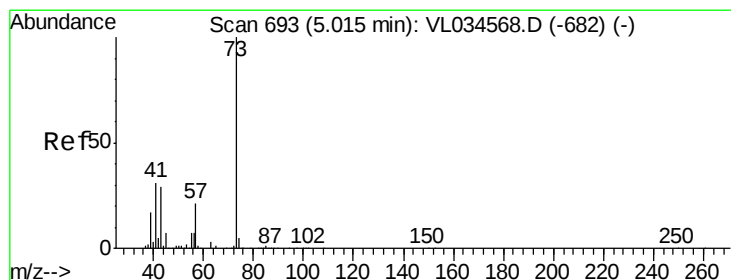
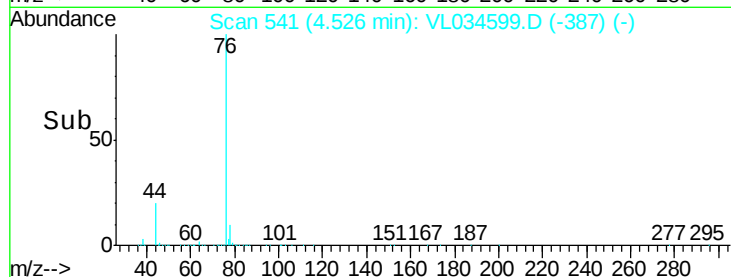
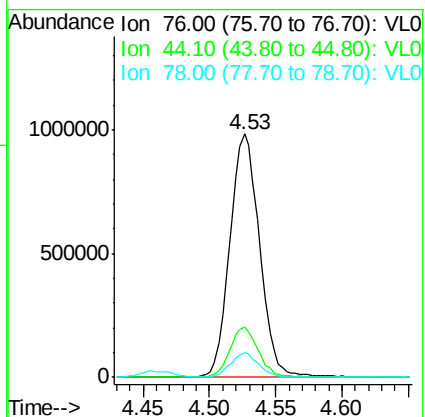
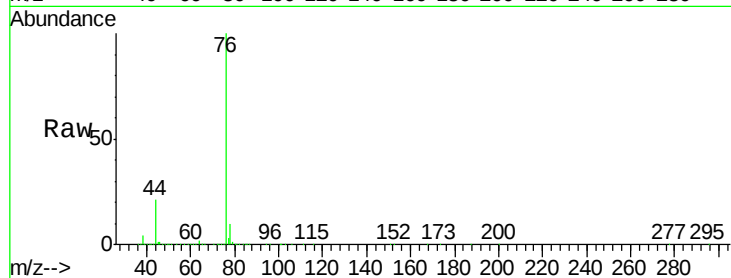
44 19.3 16.3 24.5

78 9.8 7.4 11.2

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2/5/2020 2:51:31 PM



#28

Methyl tert-Butyl Ether

Concen: 9.628 ppbv

RT: 5.01 min Scan# 692

Delta R.T. -0.00 min

Lab File: VL034599.D

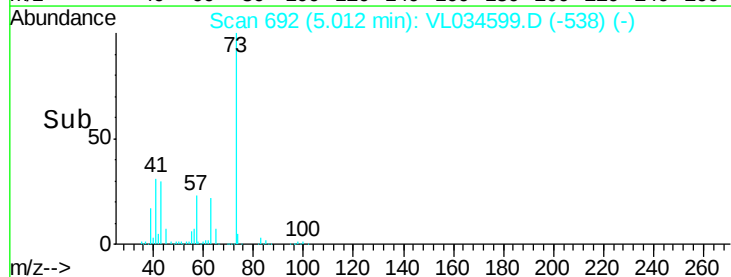
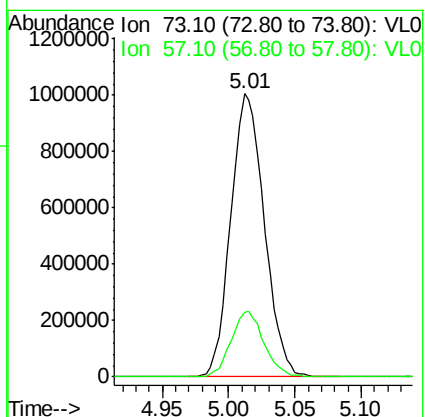
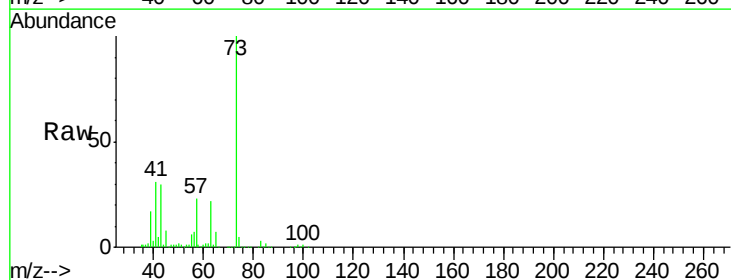
Acq: 5 Feb 2020 9:38

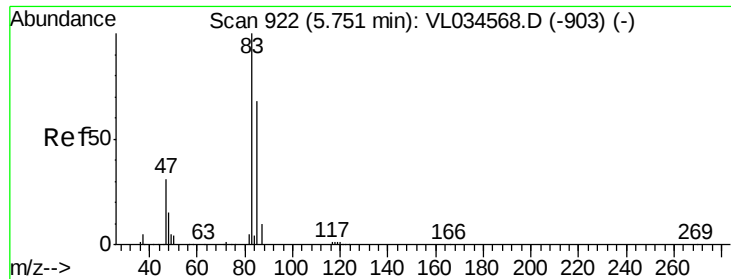
Tgt Ion: 73 Resp: 1768534

Ion Ratio Lower Upper

73 100

57 22.6 17.9 26.9





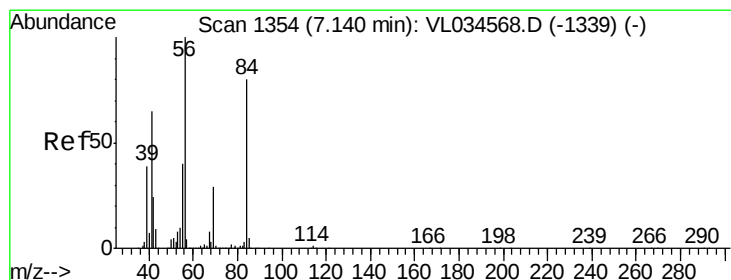
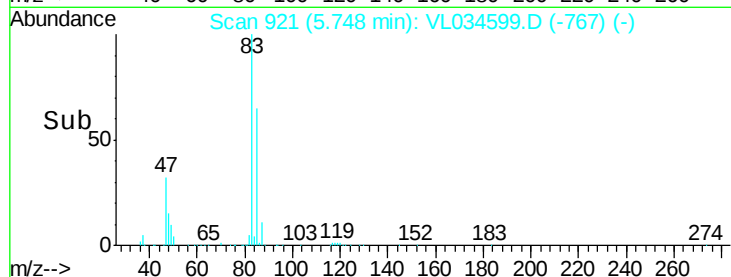
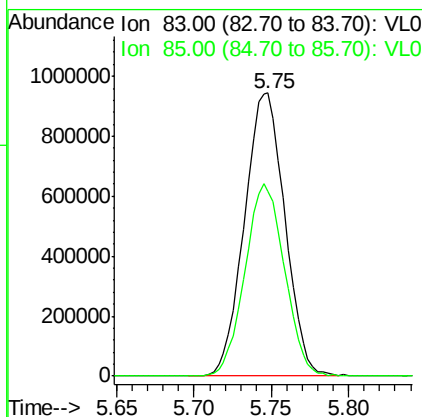
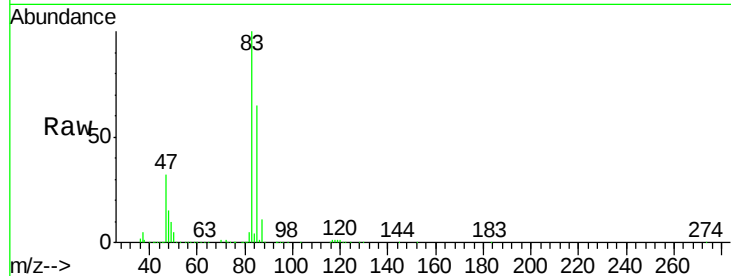
#29
Chloroform
Concen: 9.036 ppbv
RT: 5.75 min Scan# 921
Delta R.T. -0.00 min
Lab File: VL034599.D
Acq: 5 Feb 2020 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1720943
Ion Ratio Lower Upper
83 100
85 65.2 54.0 81.0

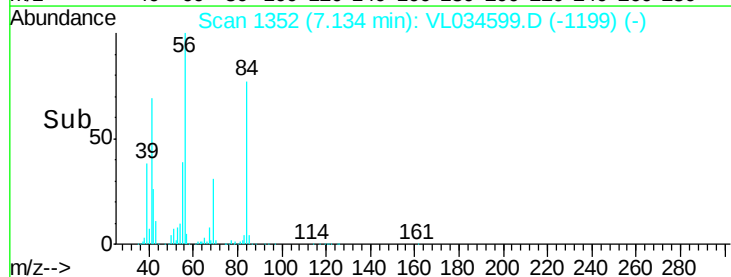
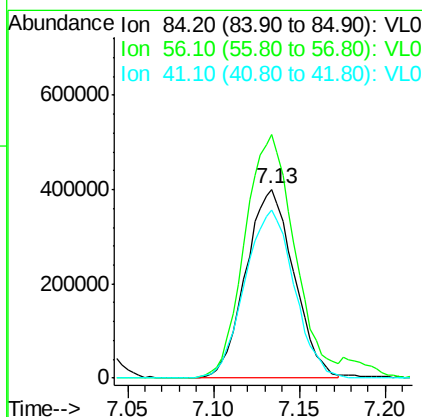
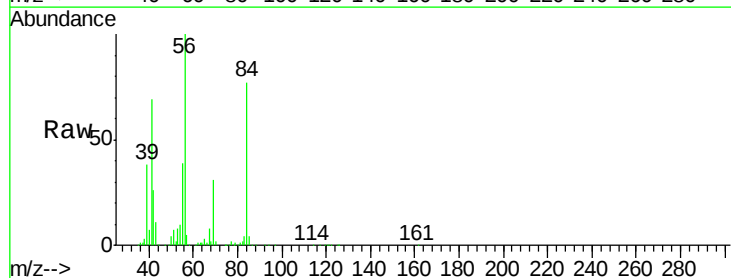
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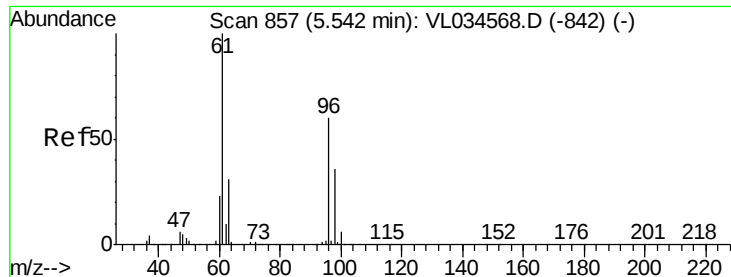
MMDadoda
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#30
Cyclohexane
Concen: 9.738 ppbv
RT: 7.13 min Scan# 1352
Delta R.T. -0.01 min
Lab File: VL034599.D
Acq: 5 Feb 2020 9:38

Tgt Ion: 84 Resp: 777247
Ion Ratio Lower Upper
84 100
56 139.8 110.5 165.7
41 91.3 71.9 107.9





#31

cis-1,2-Dichloroethene

Concen: 9.731 ppbv

RT: 5.54 min Scan# 856

Delta R.T. -0.00 min

Lab File: VL034599.D

Acq: 5 Feb 2020 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 61 Resp: 1088917

Ion Ratio Lower Upper

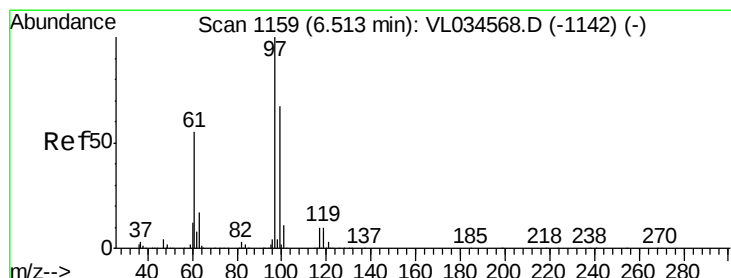
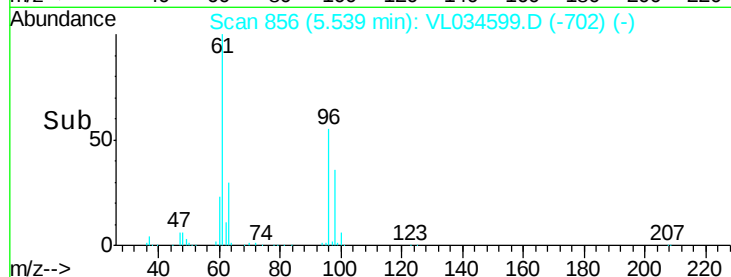
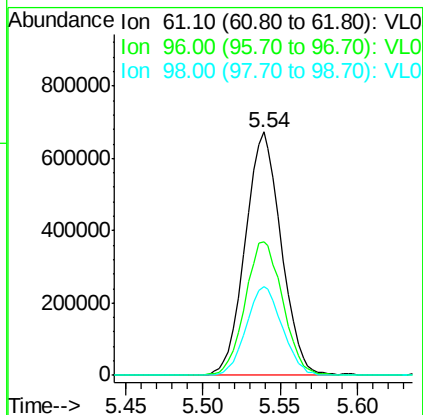
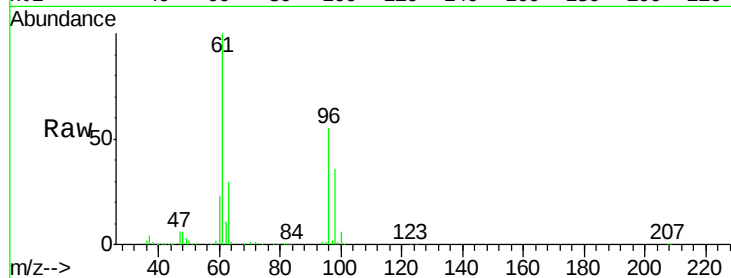
61 100

96 54.9 48.0 72.0

98 36.3 28.6 43.0

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#32

1,1,1-Trichloroethane

Concen: 8.949 ppbv

RT: 6.51 min Scan# 1158

Delta R.T. -0.00 min

Lab File: VL034599.D

Acq: 5 Feb 2020 9:38

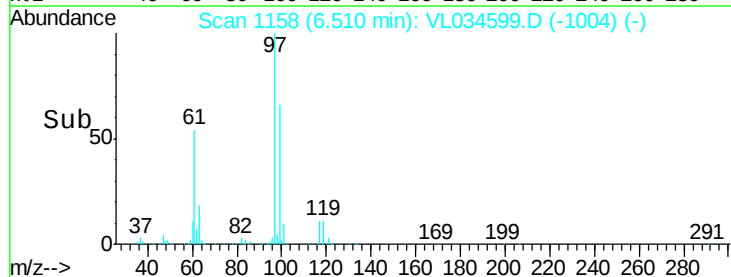
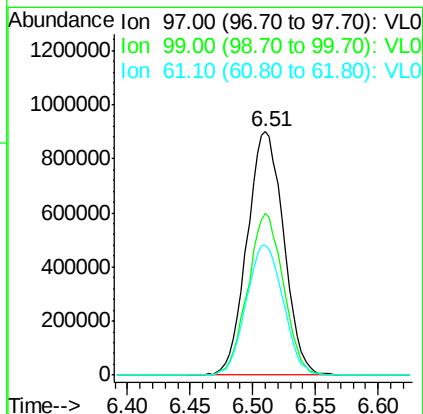
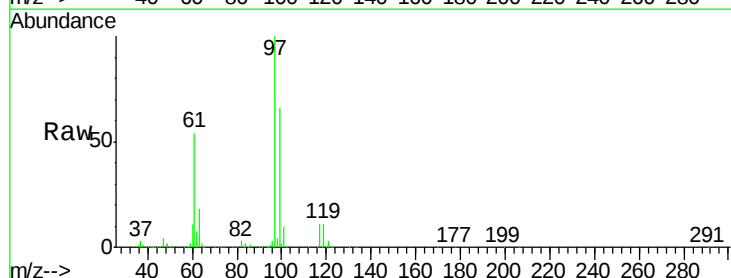
Tgt Ion: 97 Resp: 1830061

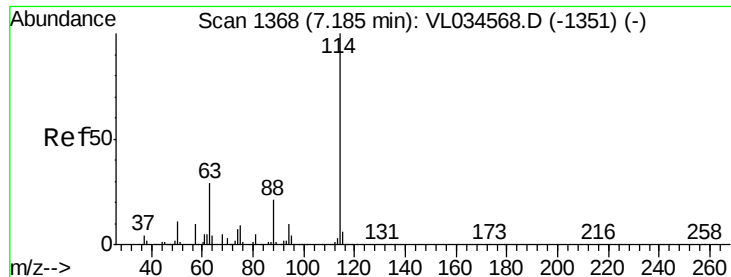
Ion Ratio Lower Upper

97 100

99 64.6 52.2 78.2

61 54.0 43.0 64.4





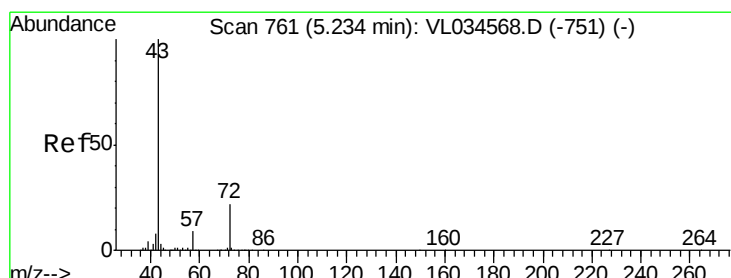
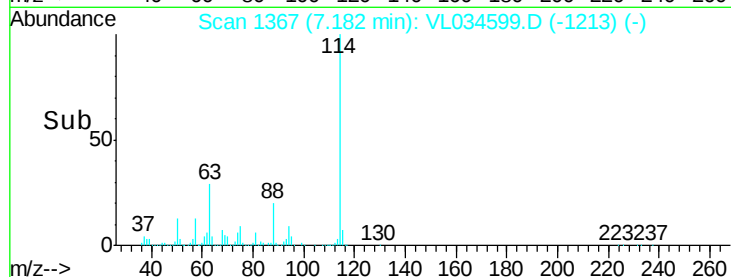
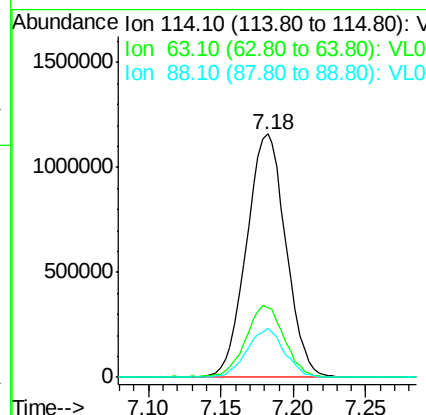
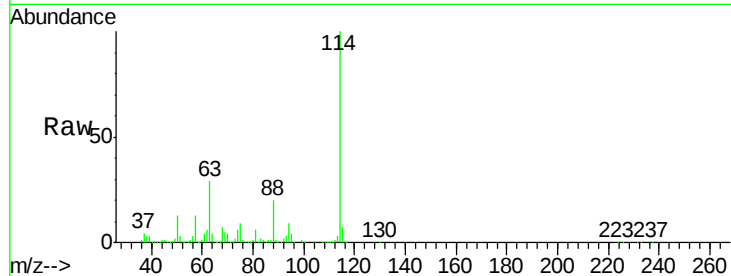
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.00 min
 Lab File: VL034599.D
 Acq: 5 Feb 2020 9:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	29.3	24.1	36.1
88	19.2	15.9	23.9

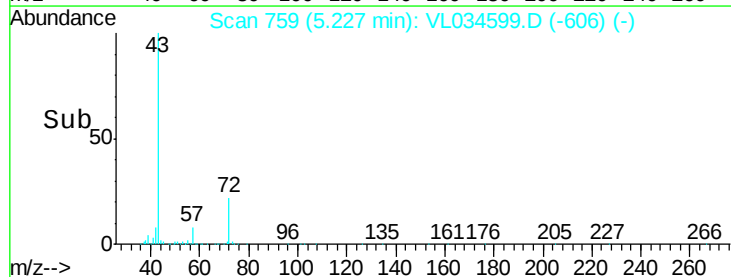
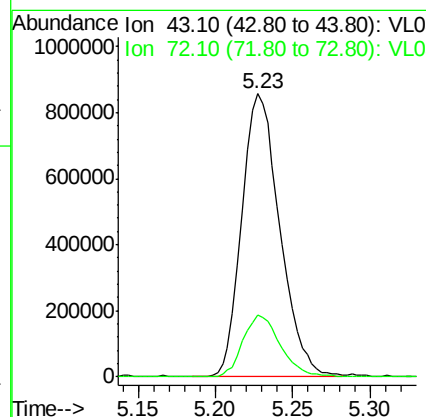
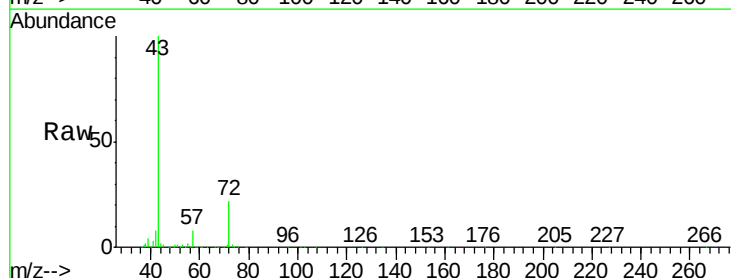
Manual Integrations
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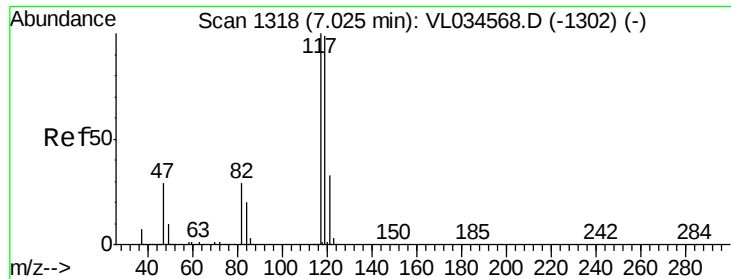
MMDadoda
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#34
 2-Butanone
 Concen: 9.179 ppbv
 RT: 5.23 min Scan# 759
 Delta R.T. -0.01 min
 Lab File: VL034599.D
 Acq: 5 Feb 2020 9:38

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.6	17.2	25.8





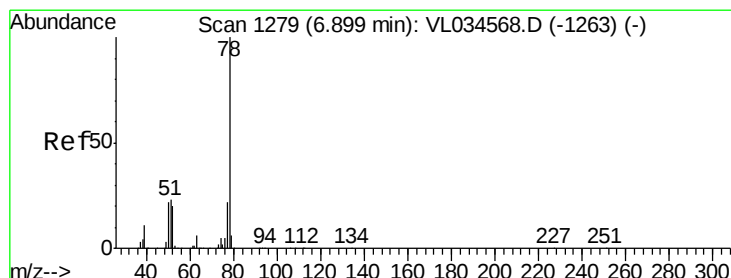
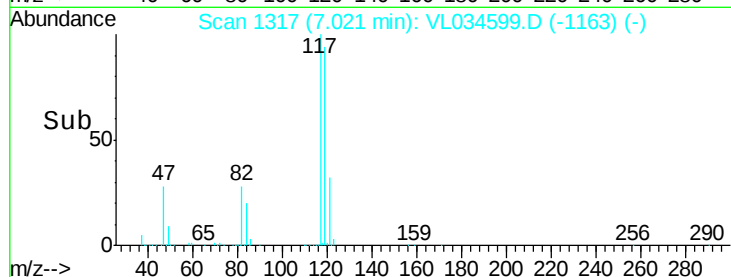
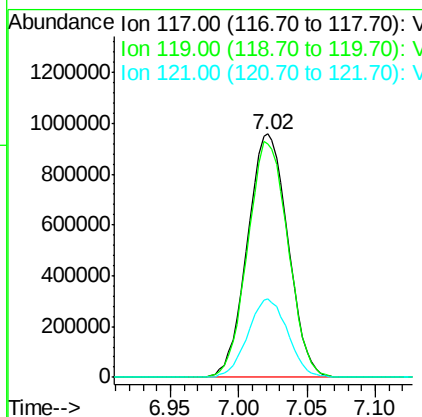
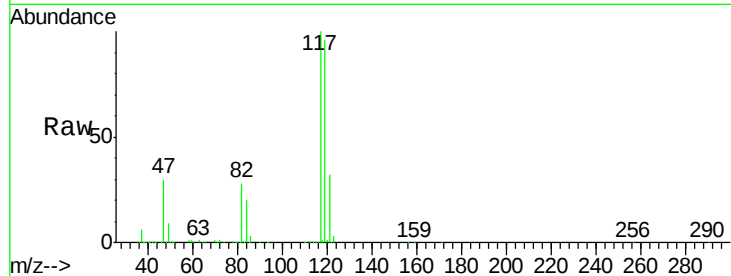
#35
Carbon Tetrachloride
Concen: 9.415 ppbv
RT: 7.02 min Scan# 1317
Delta R.T. -0.00 min
Lab File: VL034599.D
Acq: 5 Feb 2020 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
119	95.7	79.5	119.3
121	32.1	26.2	39.2

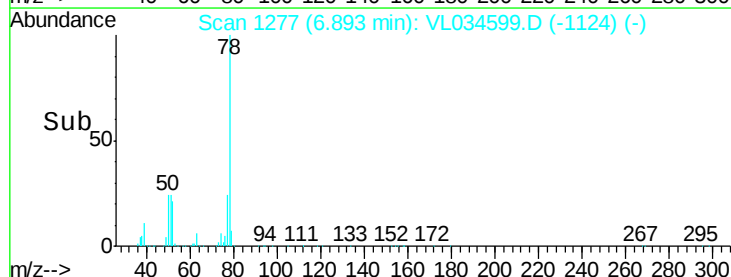
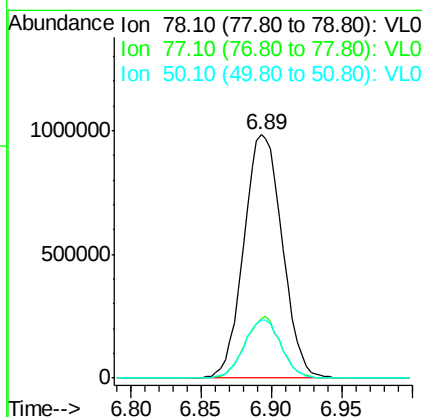
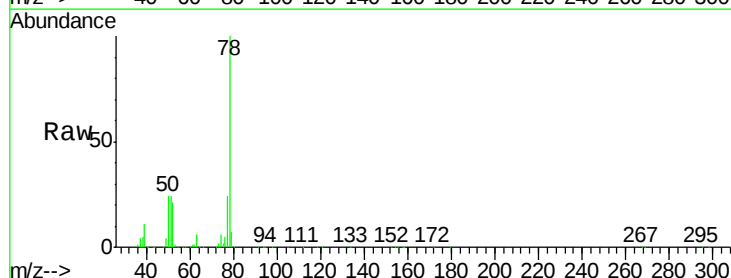
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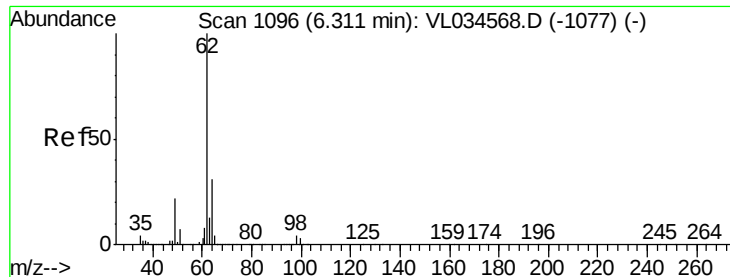
MMDadoda
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#36
Benzene
Concen: 9.616 ppbv
RT: 6.89 min Scan# 1277
Delta R.T. -0.01 min
Lab File: VL034599.D
Acq: 5 Feb 2020 9:38

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.5	17.3	25.9
50	24.0	17.4	26.2





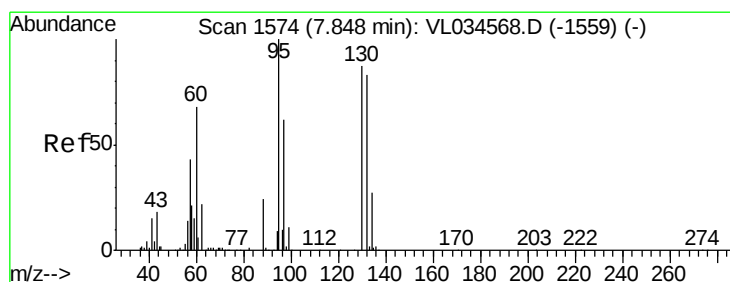
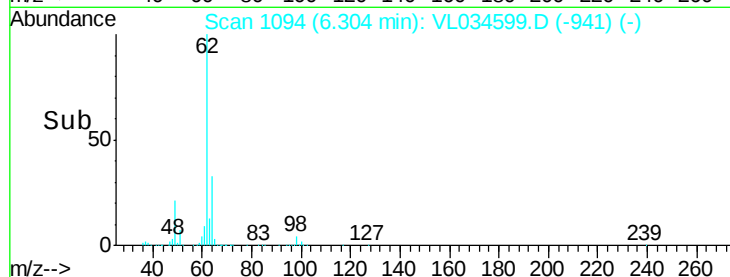
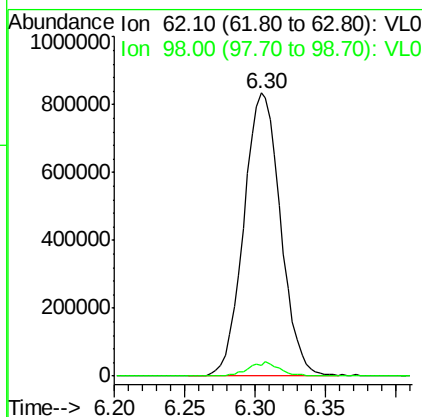
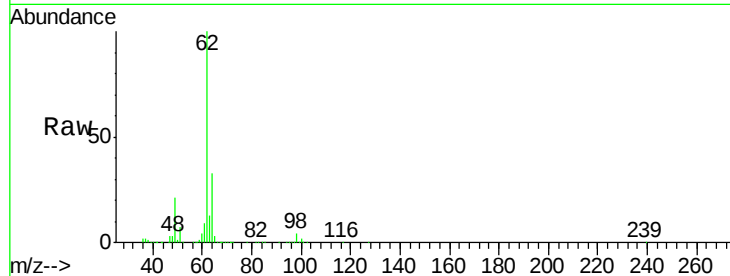
#37
1,2-Dichloroethane
Concen: 9.357 ppbv
RT: 6.30 min Scan# 1094
Delta R.T. -0.01 min
Lab File: VL034599.D
Acq: 5 Feb 2020 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 62 Resp: 1523119
Ion Ratio Lower Upper
62 100
98 4.4 3.7 5.5

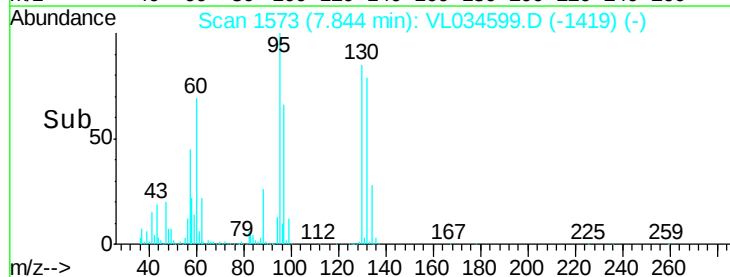
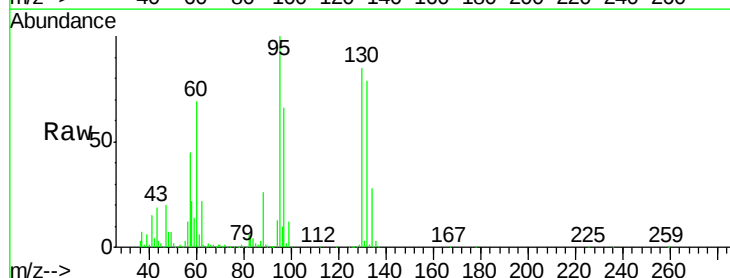
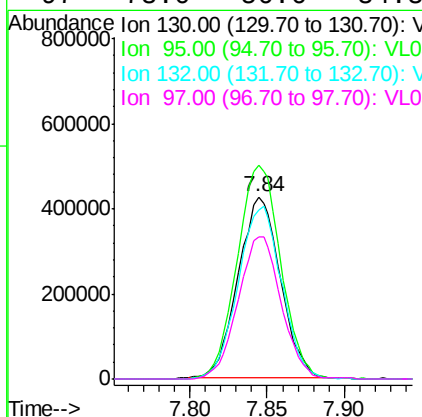
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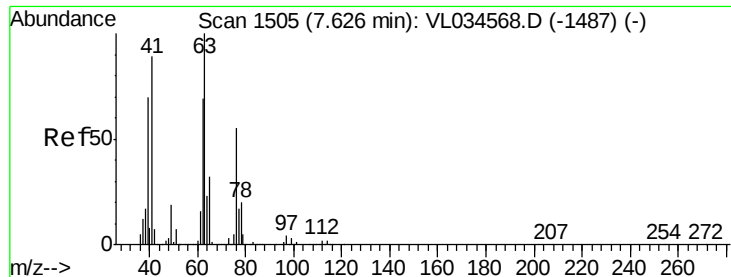
MMDadoda
2/5/2020 2:51:31 PM



#38
Trichloroethene
Concen: 9.874 ppbv
RT: 7.84 min Scan# 1573
Delta R.T. -0.00 min
Lab File: VL034599.D
Acq: 5 Feb 2020 9:38

Tgt Ion: 130 Resp: 812010
Ion Ratio Lower Upper
130 100
95 117.6 91.6 137.4
132 92.8 76.1 114.1
97 78.0 56.6 84.8





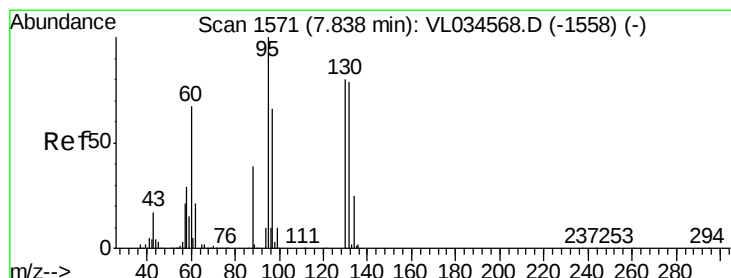
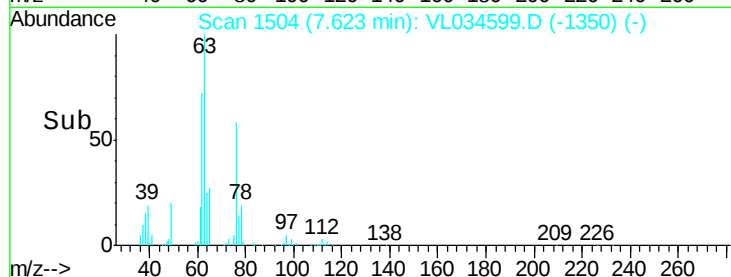
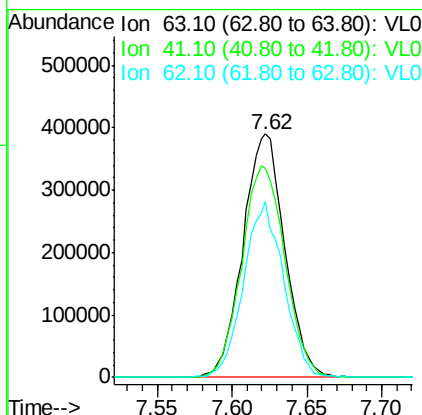
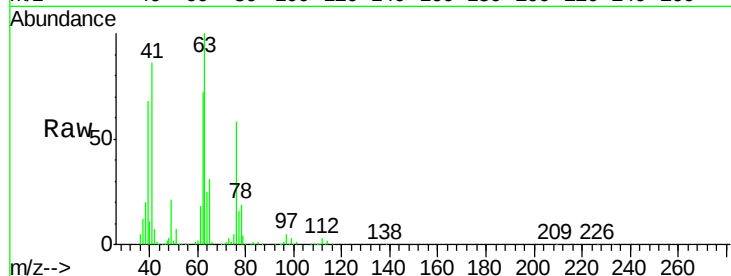
#39
 1,2-Dichloropropane
 Concen: 9.368 ppbv
 RT: 7.62 min Scan# 1504
 Delta R.T. -0.00 min
 Lab File: VL034599.D
 Acq: 5 Feb 2020 9:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	85.8	71.0	106.4
62	72.0	55.4	83.0

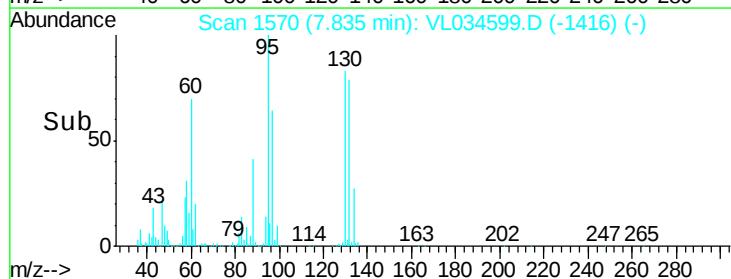
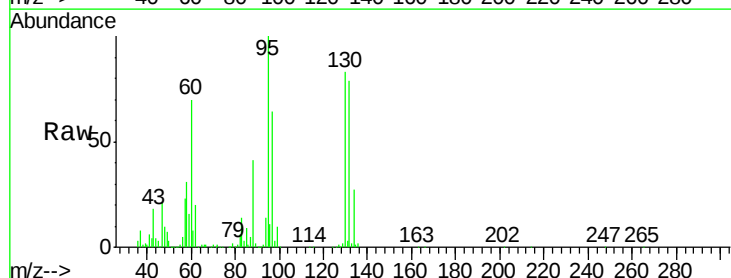
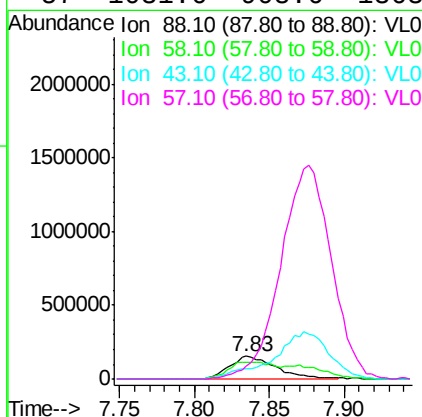
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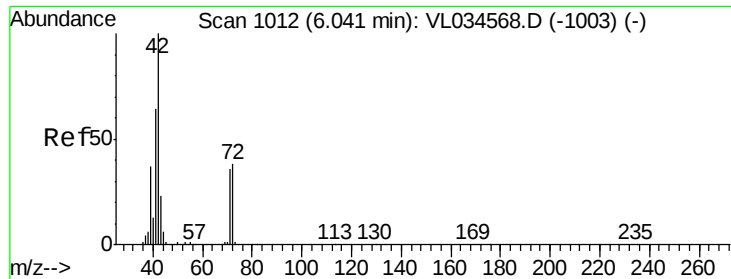
MMDadoda
 2/5/2020 2:51:31 PM



#40
 1,4-Dioxane
 Concen: 10.611 ppbv
 RT: 7.83 min Scan# 1570
 Delta R.T. -0.00 min
 Lab File: VL034599.D
 Acq: 5 Feb 2020 9:38

Tgt Ion	Ratio	Lower	Upper
88	100		
58	129.3	107.8	161.8
43	250.3	220.9	331.3
57	1031.6	908.6	1363.0





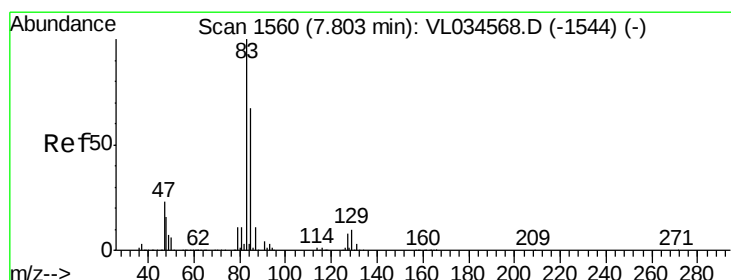
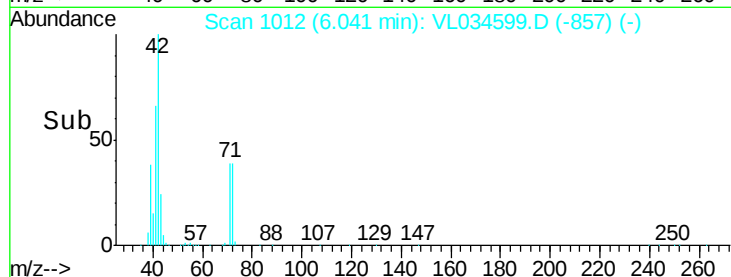
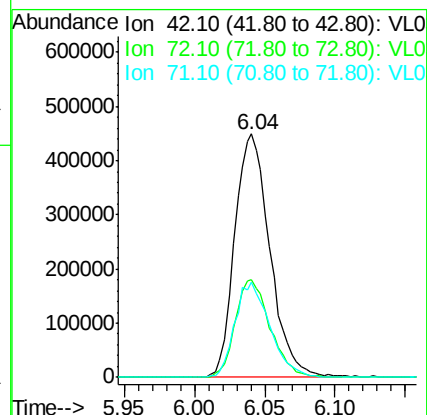
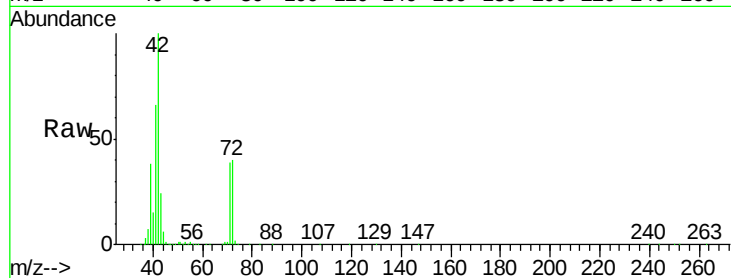
#41
Tetrahydrofuran
Concen: 9.439 ppbv
RT: 6.04 min Scan# 1012
Delta R.T. -0.00 min
Lab File: VL034599.D
Acq: 5 Feb 2020 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
42	100		784391		
72	40.1	31.8	47.8		
71	39.2	30.2	45.4		

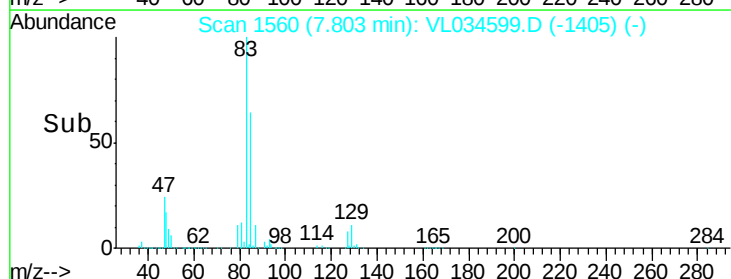
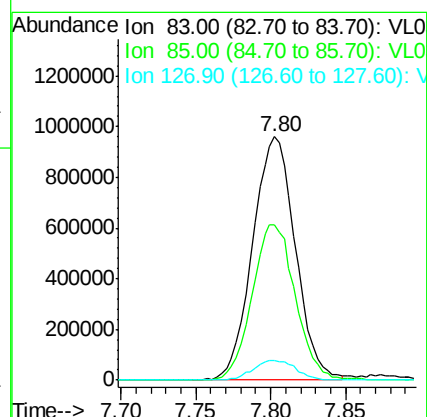
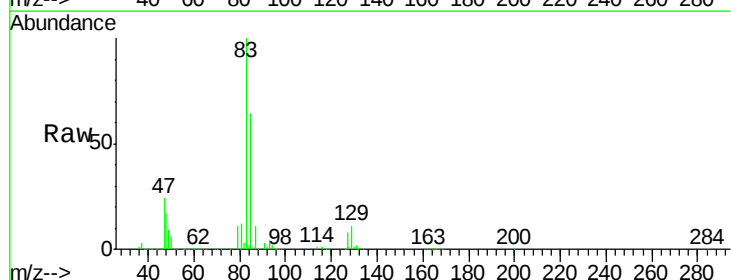
Manual Integrations
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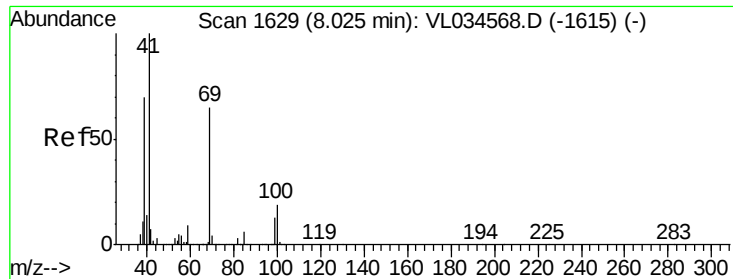
MMDadoda
2/5/2020 2:51:31 PM



#42
Bromodichloromethane
Concen: 9.510 ppbv
RT: 7.80 min Scan# 1560
Delta R.T. -0.00 min
Lab File: VL034599.D
Acq: 5 Feb 2020 9:38

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
83	100		1905130		
85	63.8	53.2	79.8		
127	7.8	6.5	9.7		





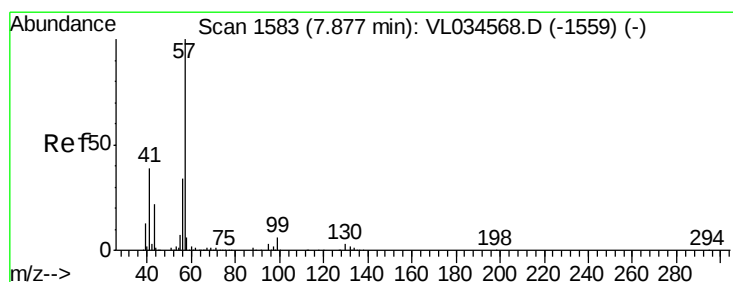
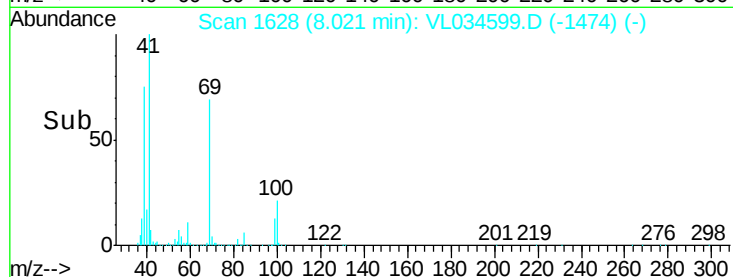
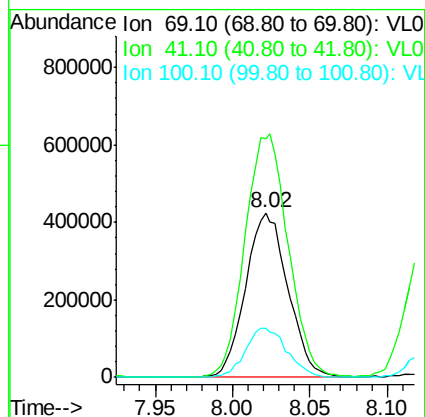
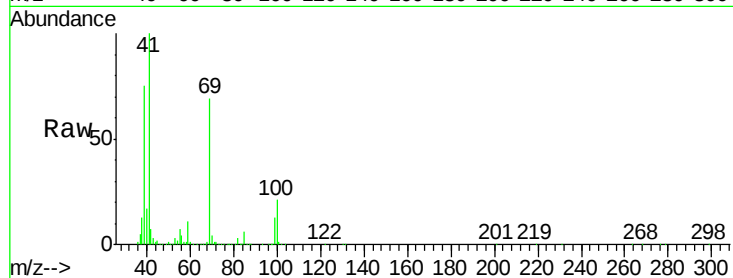
#43
Methvl Methacrilate
Concen: 10.268 ppbv
RT: 8.02 min Scan# 1628
Delta R.T. -0.00 min
Lab File: VL034599.D
Acq: 5 Feb 2020 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	151.3	123.9	185.9	
100	29.5	24.1	36.1	

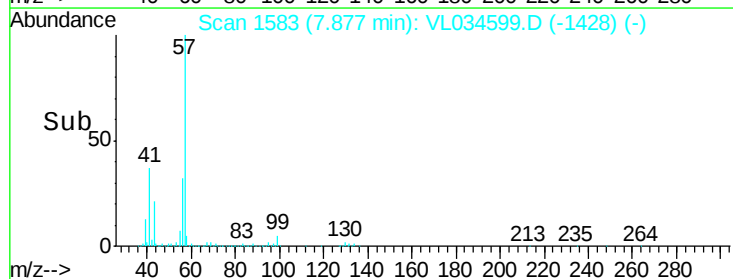
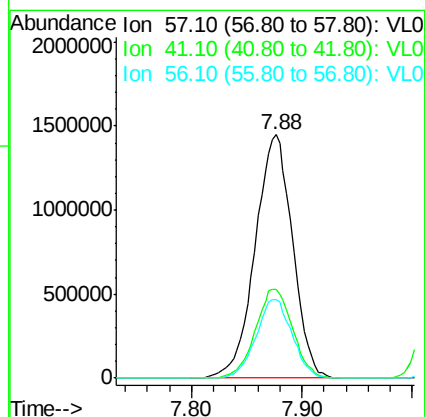
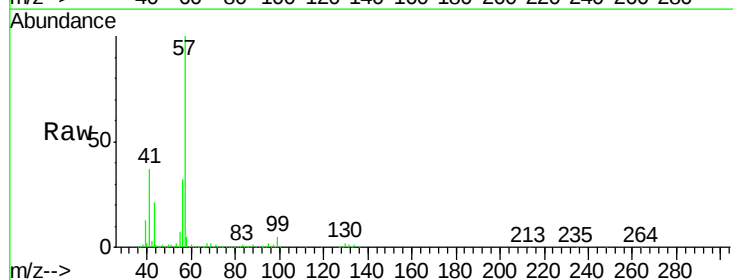
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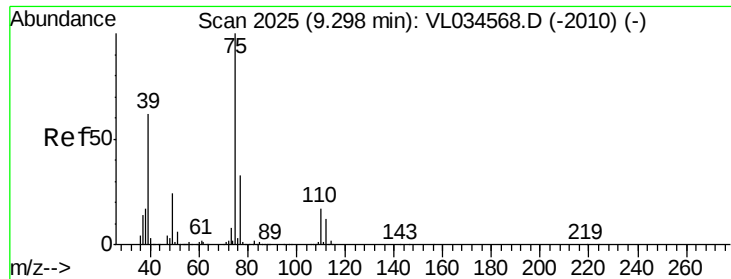
MMDadoda
2/5/2020 2:51:31 PM



#44
2,2,4-Trimethylpentane
Concen: 9.597 ppbv
RT: 7.88 min Scan# 1583
Delta R.T. -0.00 min
Lab File: VL034599.D
Acq: 5 Feb 2020 9:38

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	36.2	28.9	43.3	
56	31.2	25.5	38.3	





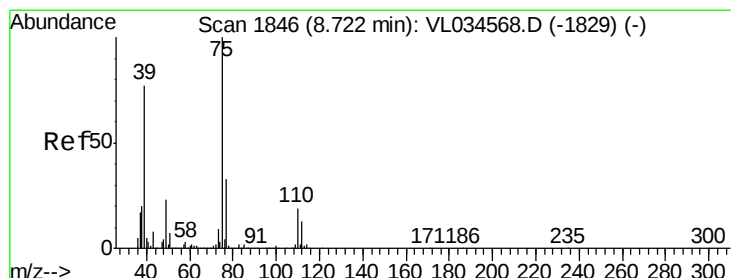
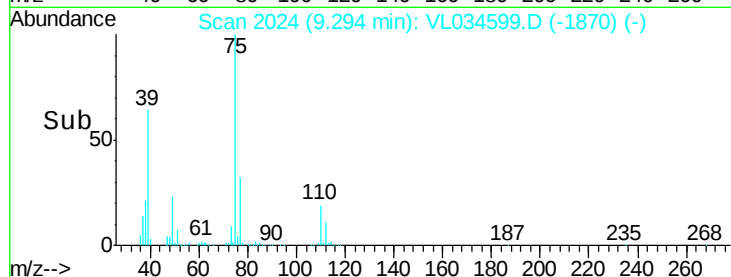
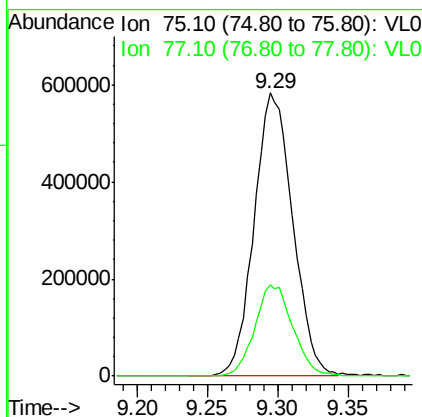
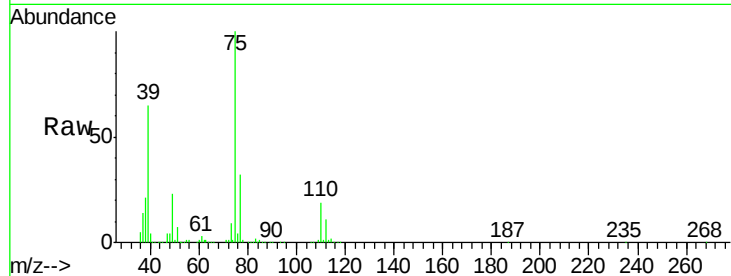
#45
t-1,3-Dichloropropene
Concen: 10.871 ppbv
RT: 9.29 min Scan# 2024
Delta R.T. -0.00 min
Lab File: VL034599.D
Acq: 5 Feb 2020 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 75 Resp: 1117014
Ion Ratio Lower Upper
75 100
77 32.1 26.7 40.1

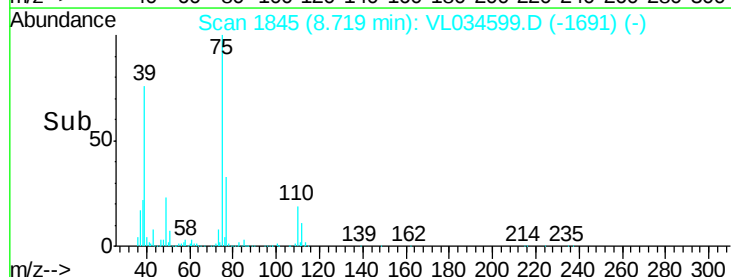
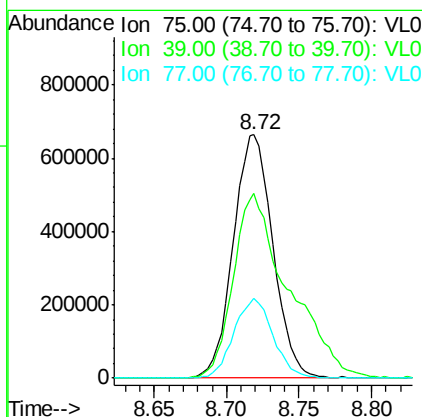
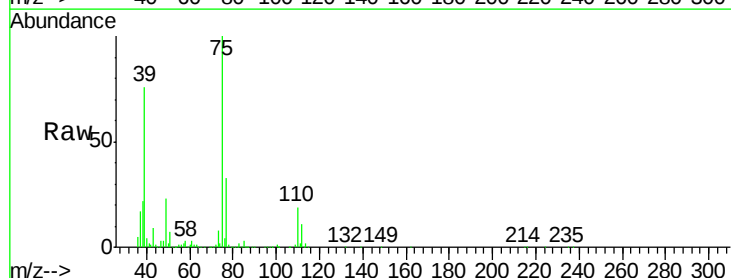
Manual Integrations
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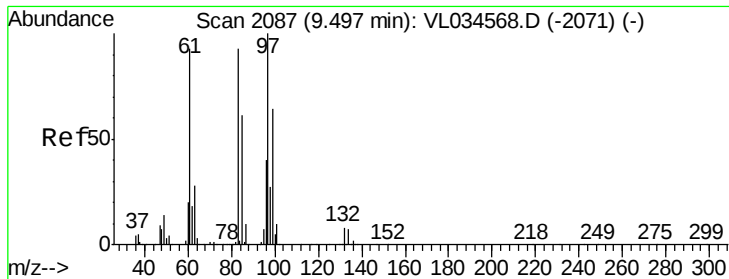
MMDadoda
2/5/2020 2:51:31 PM



#46
cis-1,3-Dichloropropene
Concen: 10.781 ppbv
RT: 8.72 min Scan# 1845
Delta R.T. -0.00 min
Lab File: VL034599.D
Acq: 5 Feb 2020 9:38

Tgt Ion: 75 Resp: 1259084
Ion Ratio Lower Upper
75 100
39 75.5 61.9 92.9
77 32.8 26.1 39.1





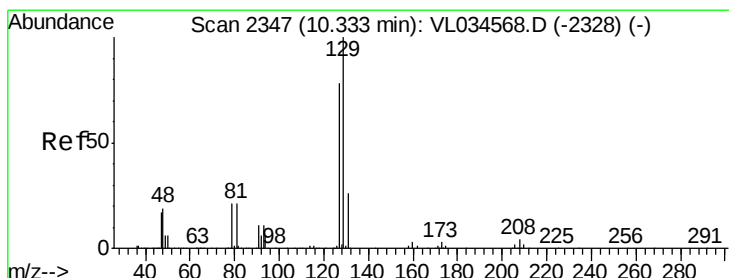
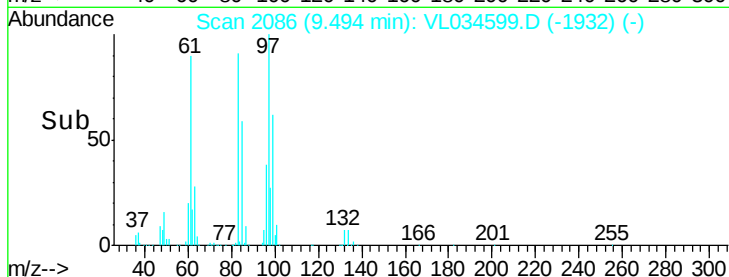
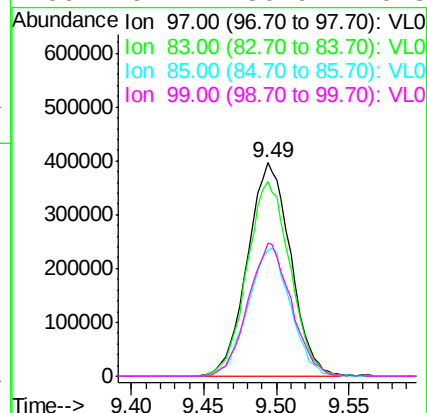
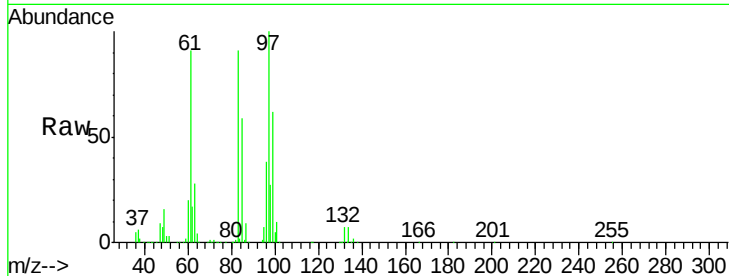
#47
 1,1,2-Trichloroethane
 Concen: 9.357 ppbv
 RT: 9.49 min Scan# 2086
 Delta R.T. -0.00 min
 Lab File: VL034599.D
 Acq: 5 Feb 2020 9:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	91.0	74.4	111.6	
85	58.7	49.2	73.8	
99	62.1	50.9	76.3	

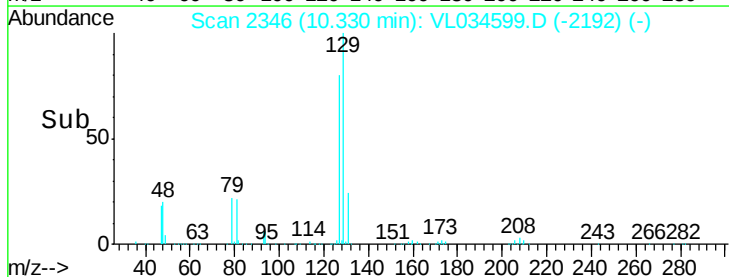
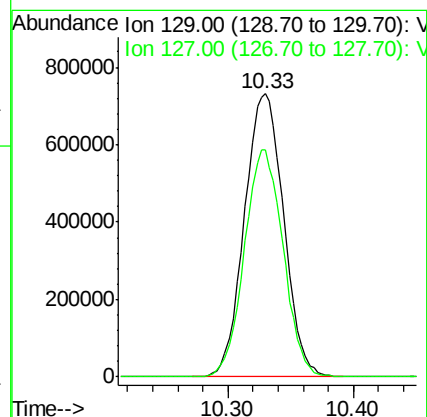
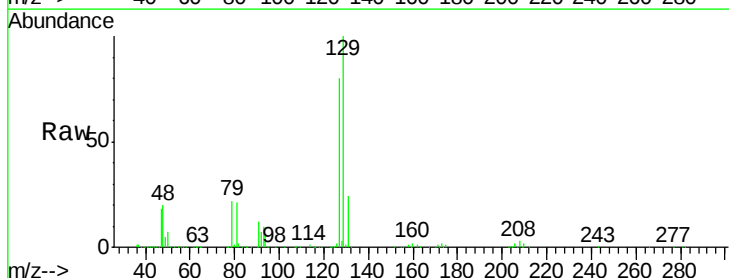
Manual Integrations
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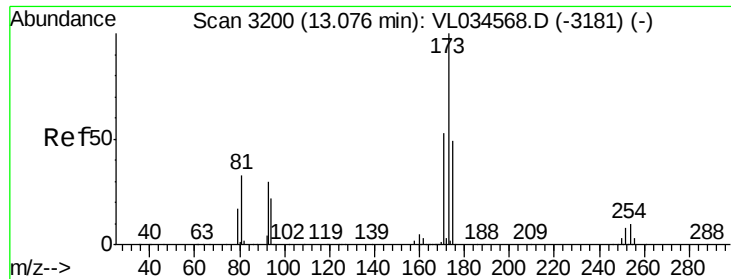
MMDadoda
 2/5/2020 2:51:31 PM



#48
 Dibromochloromethane
 Concen: 9.874 ppbv
 RT: 10.33 min Scan# 2346
 Delta R.T. -0.00 min
 Lab File: VL034599.D
 Acq: 5 Feb 2020 9:38

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	79.4	39.1	117.2	





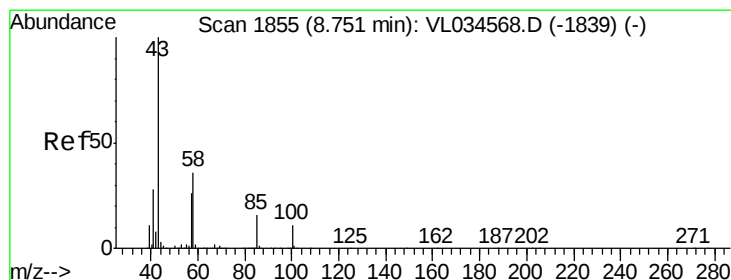
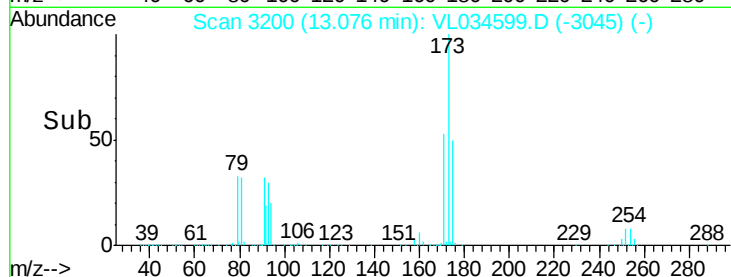
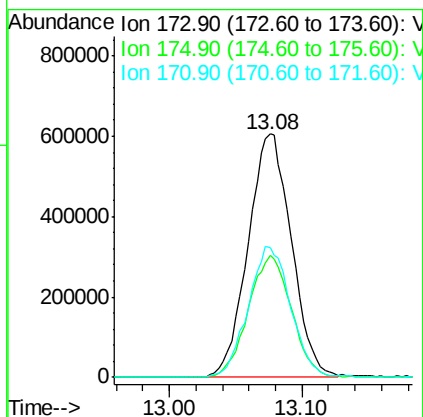
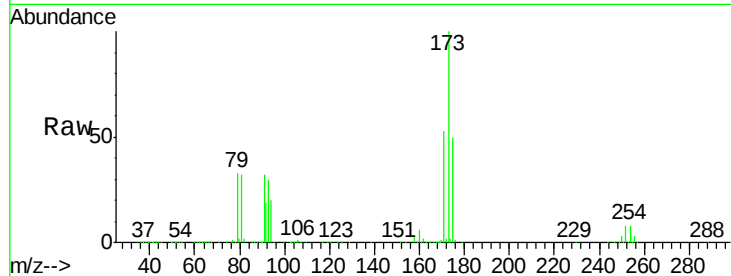
#49
Bromoform
Concen: 9.767 ppbv
RT: 13.08 min Scan# 3200
Delta R.T. -0.00 min
Lab File: VL034599.D
Acq: 5 Feb 2020 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:173 Resp: 1376461
Ion Ratio Lower Upper
173 100
175 49.7 39.7 59.5
171 52.9 41.6 62.4

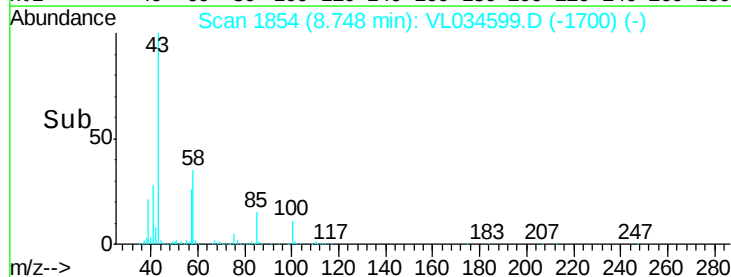
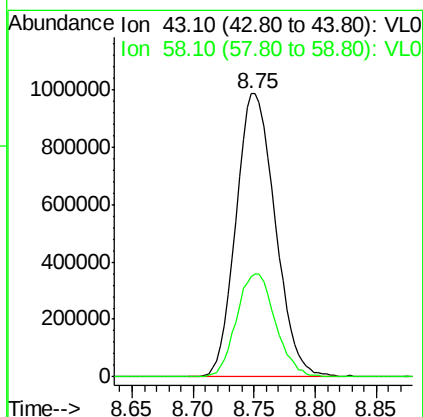
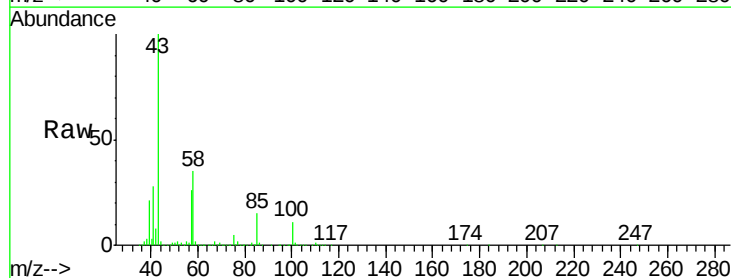
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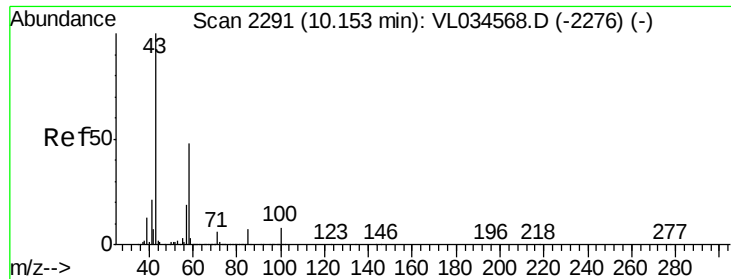
MMDadoda
2/5/2020 2:51:31 PM



#50
4-Methyl-2-Pentanone
Concen: 9.647 ppbv
RT: 8.75 min Scan# 1854
Delta R.T. -0.00 min
Lab File: VL034599.D
Acq: 5 Feb 2020 9:38

Tgt Ion: 43 Resp: 2191507
Ion Ratio Lower Upper
43 100
58 36.1 28.6 43.0





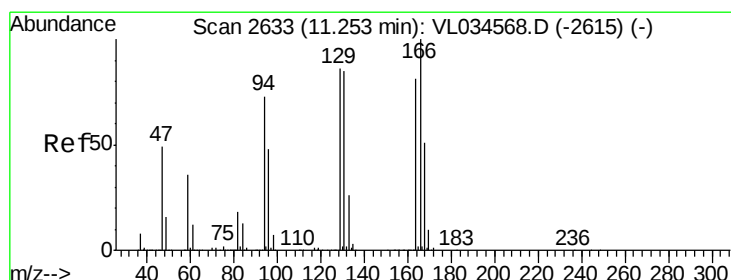
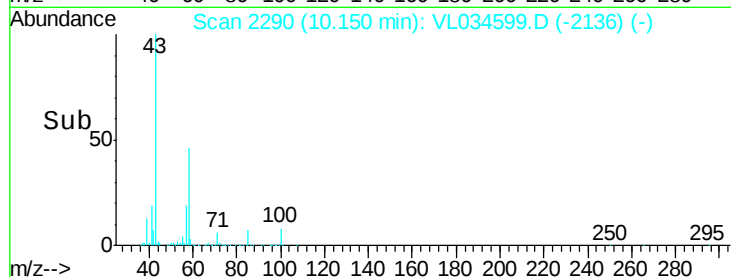
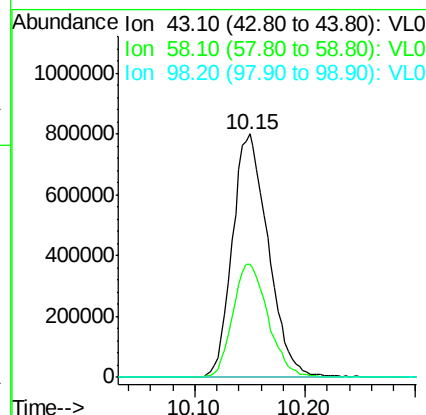
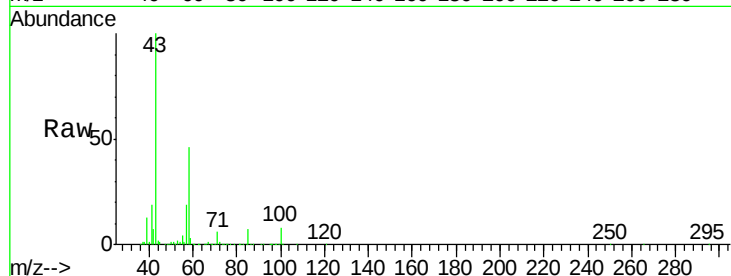
#51
2-Hexanone
Concen: 10.069 ppbv
RT: 10.15 min Scan# 2290
Delta R.T. -0.00 min
Lab File: VL034599.D
Acq: 5 Feb 2020 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1800637
Ion Ratio Lower Upper
43 100
58 45.9 37.9 56.9
98 0.3 0.3 0.5#

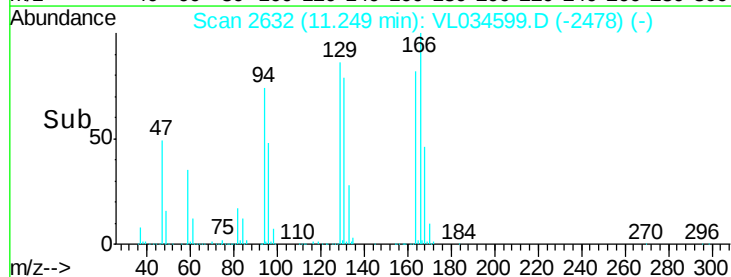
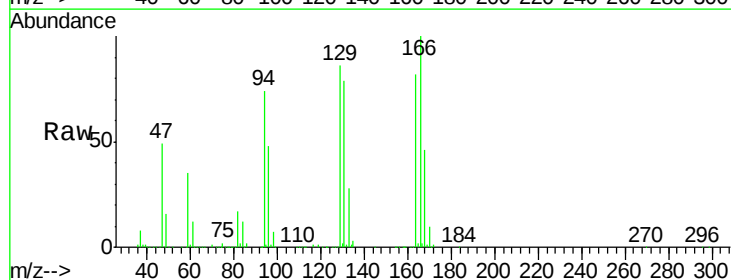
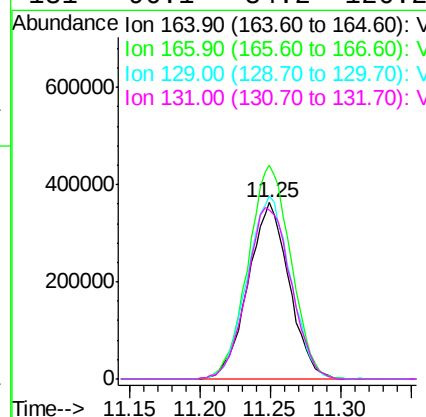
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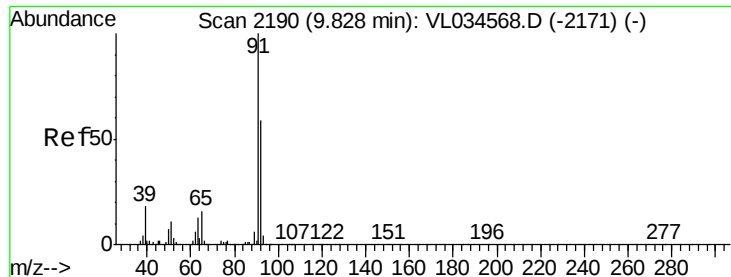
MMDadoda
2/5/2020 2:51:31 PM



#52
Tetrachloroethene
Concen: 9.416 ppbv
RT: 11.25 min Scan# 2632
Delta R.T. -0.00 min
Lab File: VL034599.D
Acq: 5 Feb 2020 9:38

Tgt Ion: 164 Resp: 737977
Ion Ratio Lower Upper
164 100
166 121.2 99.0 148.4
129 103.8 85.3 127.9
131 96.1 84.2 126.2





#53

Toluene

Concen: 10.207 ppbv

RT: 9.82 min Scan# 2189

Delta R.T. -0.00 min

Lab File: VL034599.D

Acq: 5 Feb 2020 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2187490

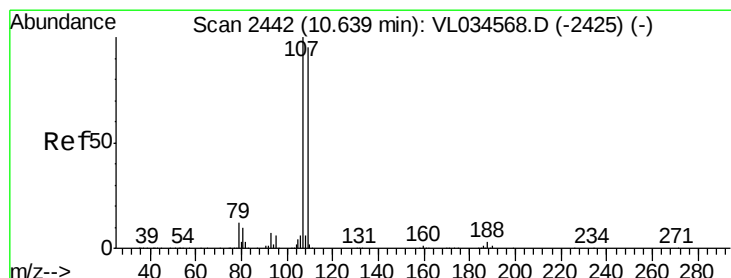
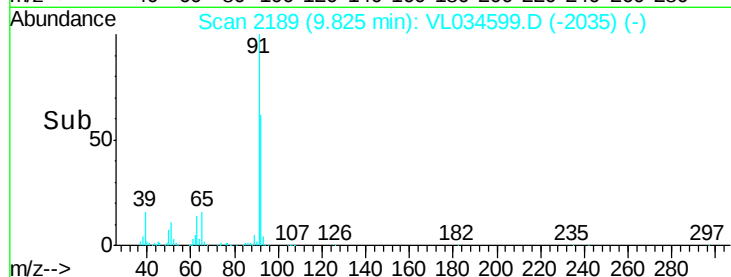
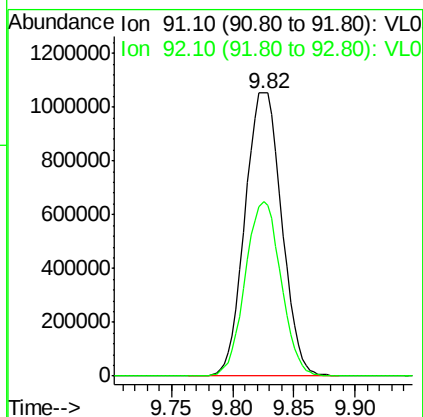
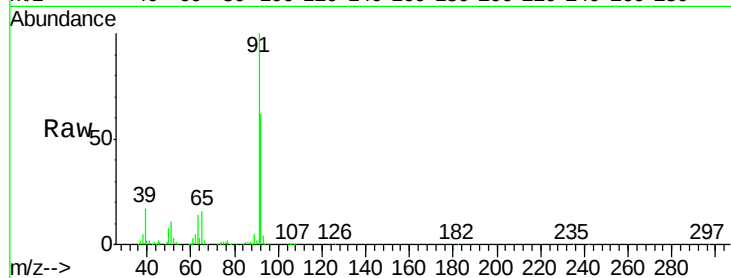
Ion Ratio Lower Upper

91 100

92 60.1 48.2 72.2

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#54

1,2-Dibromoethane

Concen: 9.443 ppbv

RT: 10.64 min Scan# 2441

Delta R.T. -0.00 min

Lab File: VL034599.D

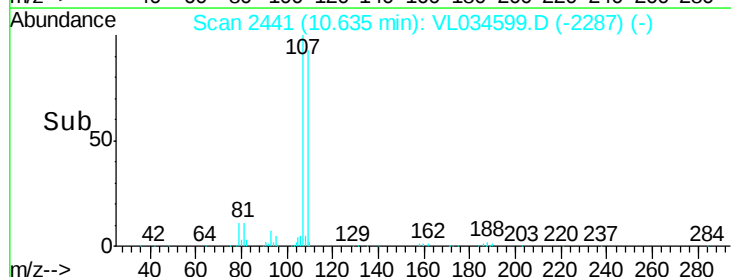
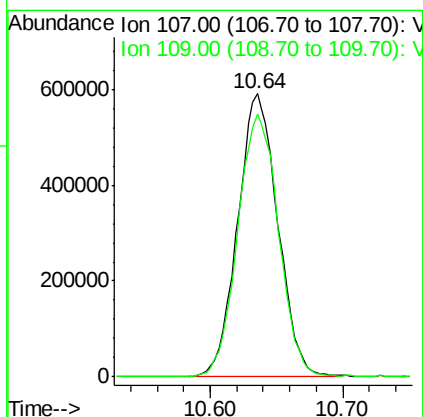
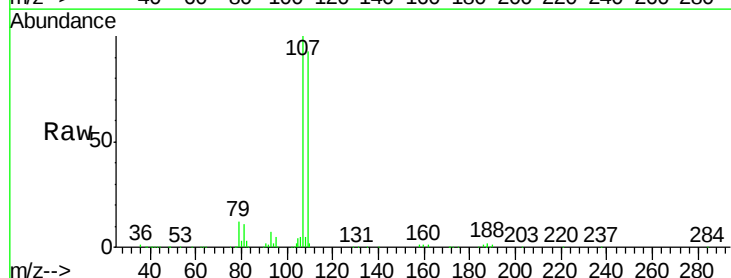
Acq: 5 Feb 2020 9:38

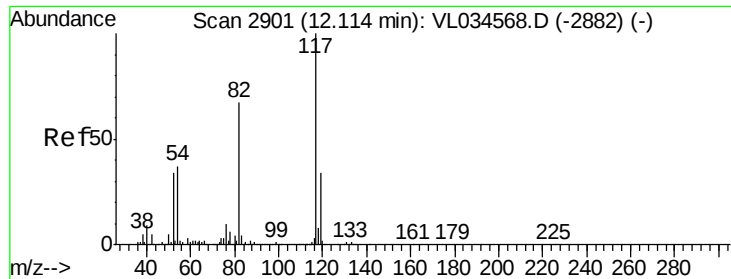
Tgt Ion: 107 Resp: 1239531

Ion Ratio Lower Upper

107 100

109 92.9 75.9 113.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.12 min Scan# 2902

Delta R.T. 0.00 min

Lab File: VL034599.D

Acq: 5 Feb 2020 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 2332453

Ion Ratio Lower Upper

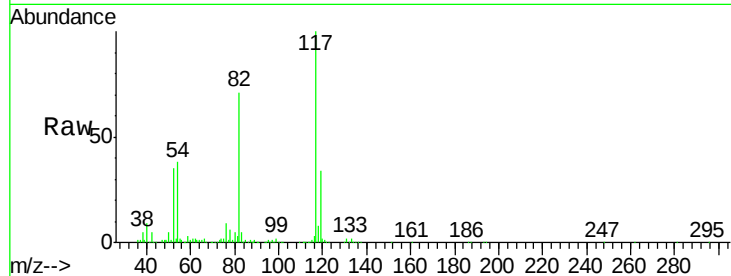
117 100

82 69.0 54.2 81.4

119 33.8 26.1 39.1

Manual Integrations
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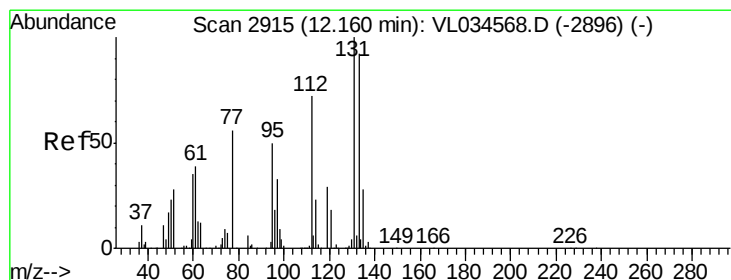
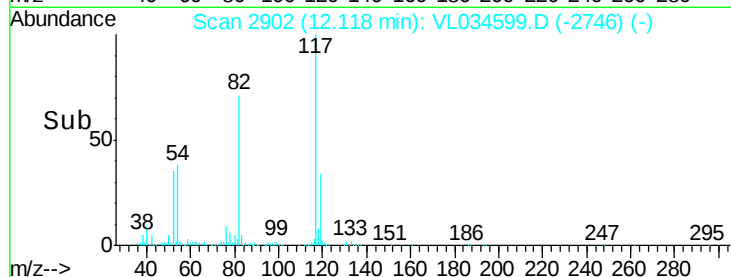
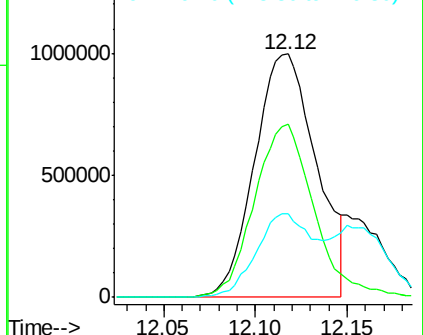
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2/5/2020 2:51:31 PM



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 9.194 ppbv

RT: 12.16 min Scan# 2914

Delta R.T. -0.00 min

Lab File: VL034599.D

Acq: 5 Feb 2020 9:38

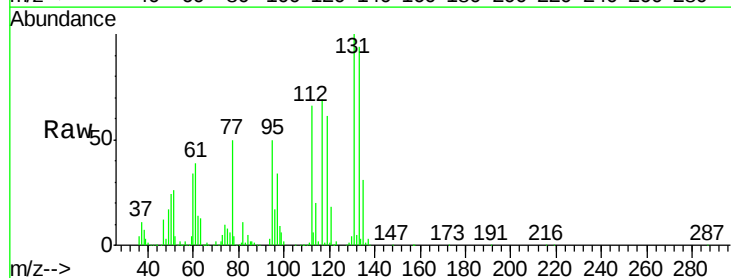
Tgt Ion:131 Resp: 1058678

Ion Ratio Lower Upper

131 100

133 94.8 75.8 113.8

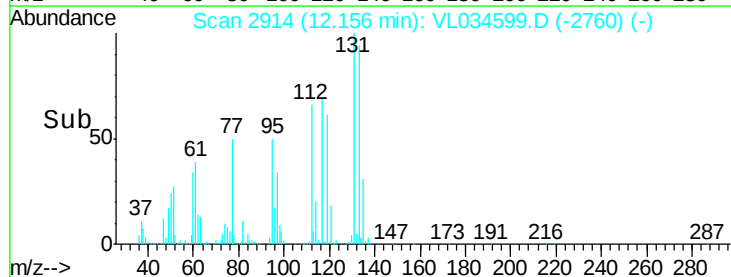
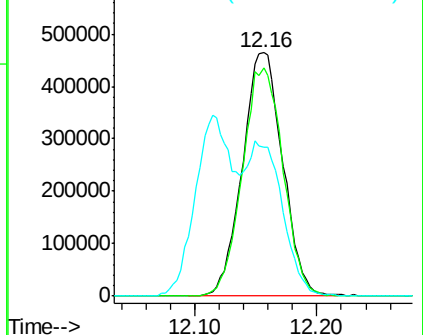
119 62.7 47.0 70.6

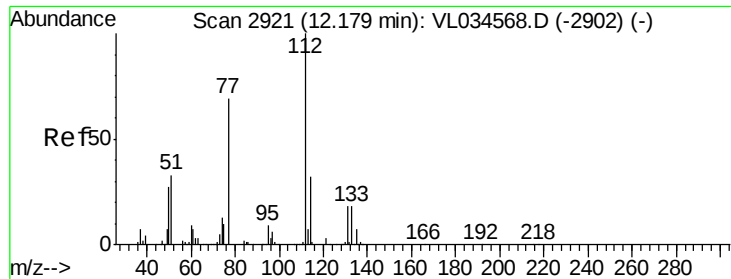


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





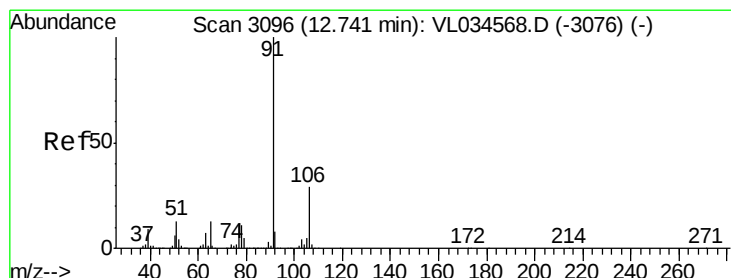
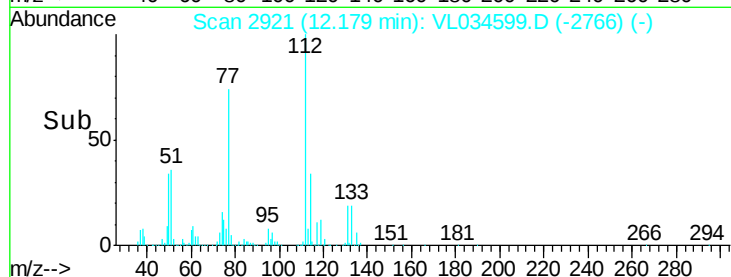
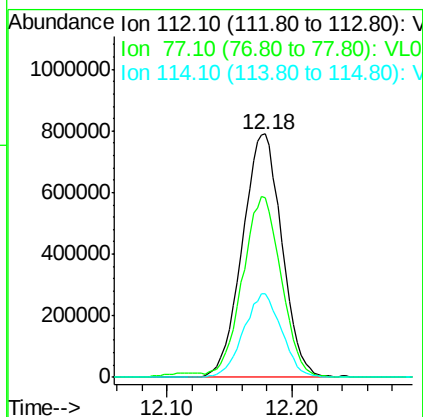
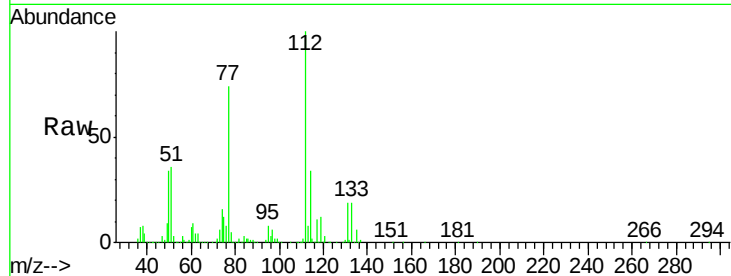
#57
Chlorobenzene
Concen: 9.017 ppbv
RT: 12.18 min Scan# 2921
Delta R.T. -0.00 min
Lab File: VL034599.D
Acq: 5 Feb 2020 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
112	100		
77	73.7	56.5	84.7
114	34.1	29.2	35.6

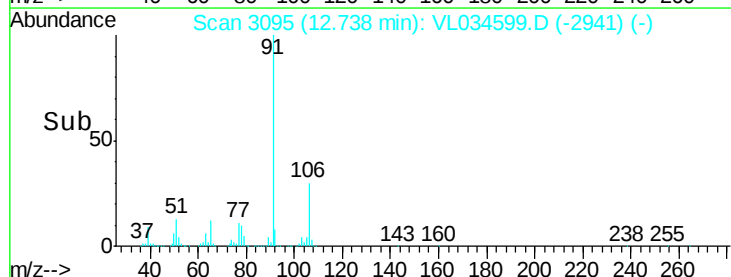
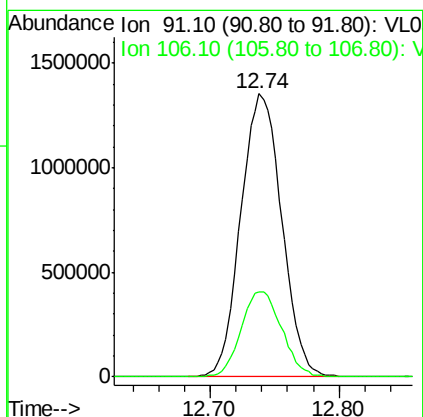
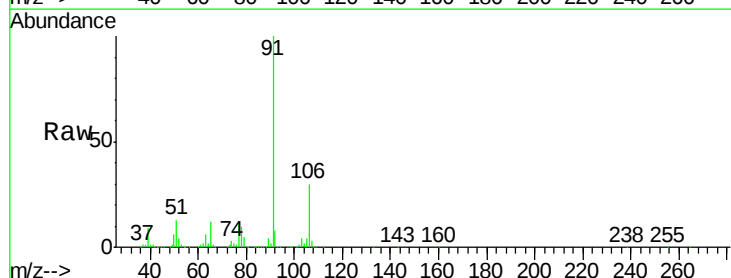
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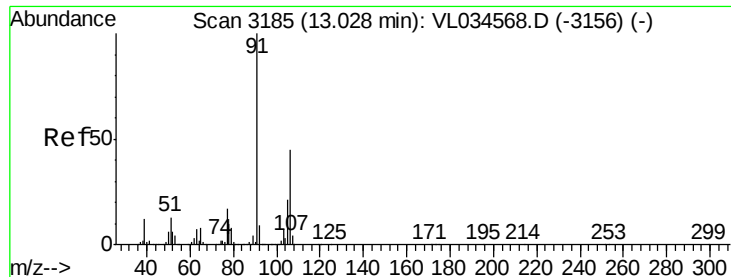
MMDadoda
2/5/2020 2:51:31 PM



#58
Ethyl Benzene
Concen: 9.584 ppbv
RT: 12.74 min Scan# 3095
Delta R.T. -0.00 min
Lab File: VL034599.D
Acq: 5 Feb 2020 9:38

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.3	34.9





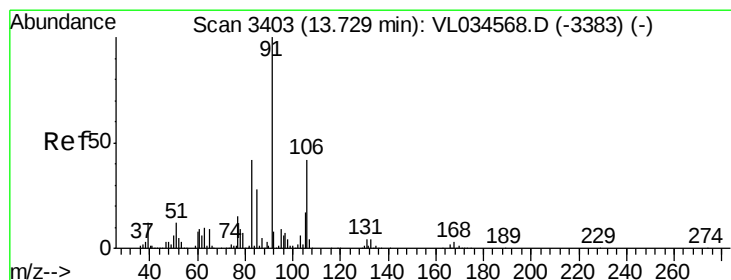
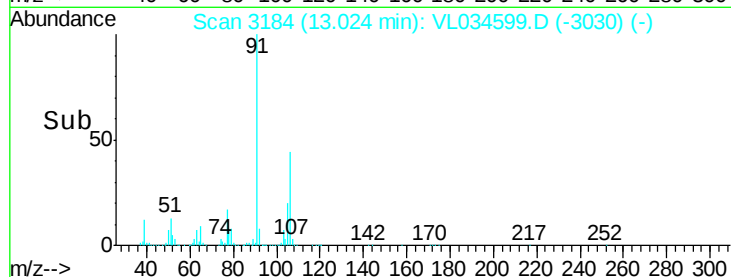
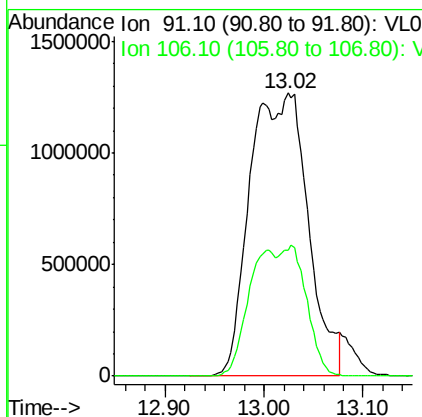
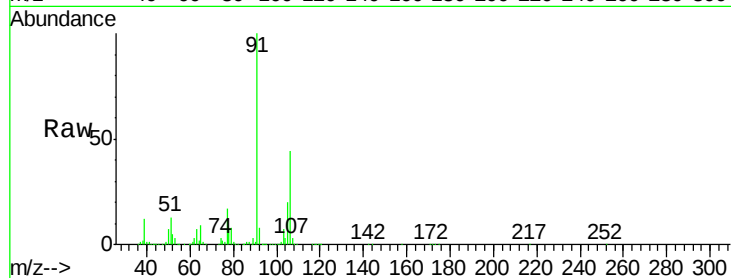
#59
m/p-Xylene
Concen: 18.773 ppbv m
RT: 13.02 min Scan# 3184
Delta R.T. -0.00 min
Lab File: VL034599.D
Acq: 5 Feb 2020 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 5179536
Ion Ratio Lower Upper
91 100
106 43.6 35.3 52.9

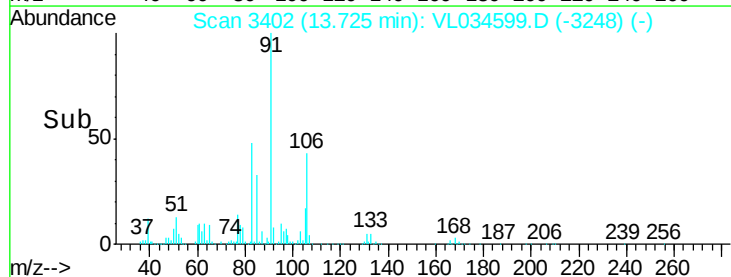
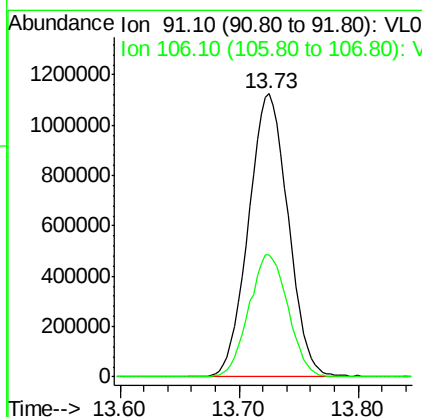
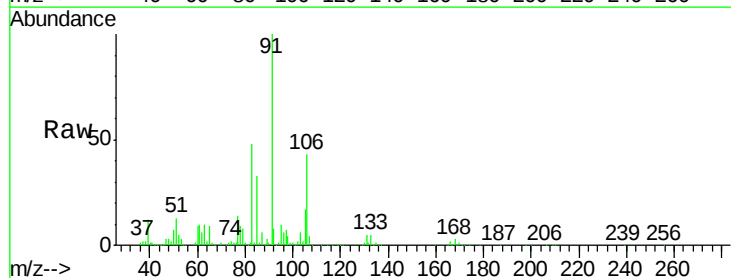
Manual Integrations
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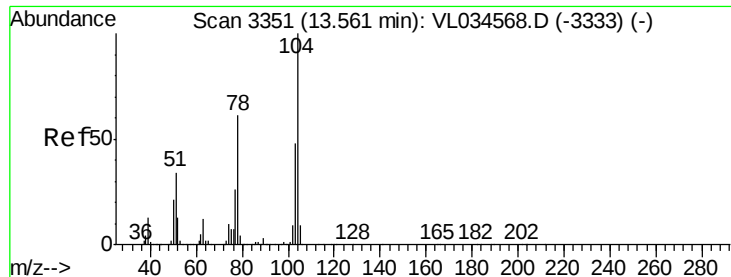
MMDadoda
2/5/2020 2:51:31 PM



#60
o-Xylene
Concen: 9.329 ppbv
RT: 13.73 min Scan# 3402
Delta R.T. -0.00 min
Lab File: VL034599.D
Acq: 5 Feb 2020 9:38

Tgt Ion: 91 Resp: 2585065
Ion Ratio Lower Upper
91 100
106 42.9 21.6 65.0





#61

Stvrene

Concen: 10.006 ppbv

RT: 13.56 min Scan# 3351

Delta R.T. -0.00 min

Lab File: VL034599.D

Acq: 5 Feb 2020 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 1848596

Ion Ratio Lower Upper

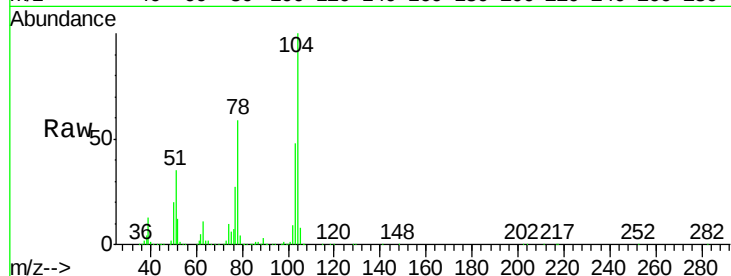
104 100

78 60.2 47.0 70.6

103 48.1 38.5 57.7

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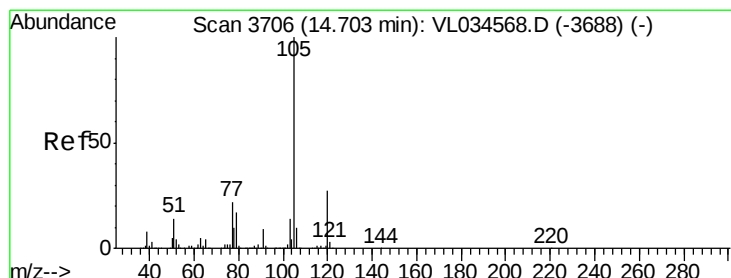
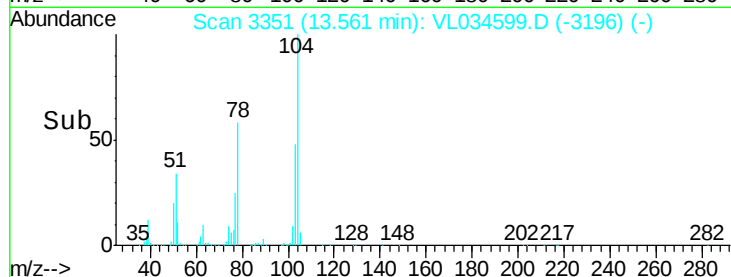
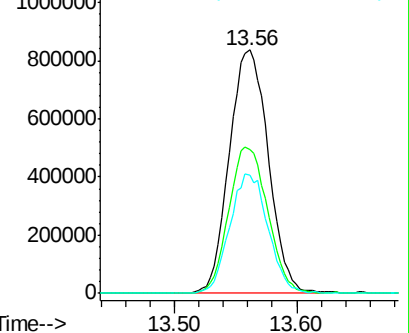
MMDadoda
2/5/2020 2:51:31 PM



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: 9.203 ppbv

RT: 14.70 min Scan# 3706

Delta R.T. -0.00 min

Lab File: VL034599.D

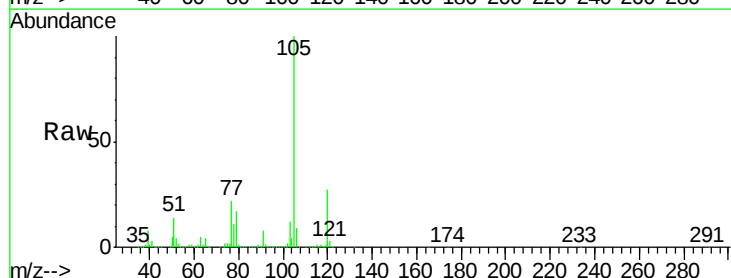
Acq: 5 Feb 2020 9:38

Tgt Ion:105 Resp: 3304295

Ion Ratio Lower Upper

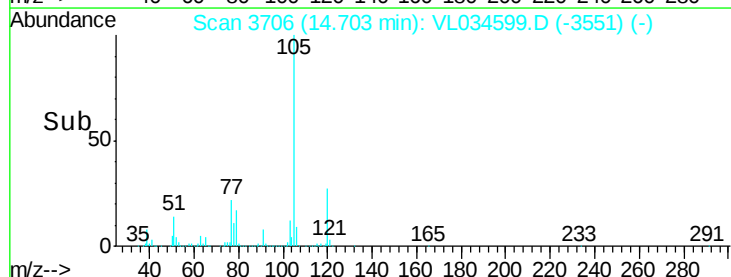
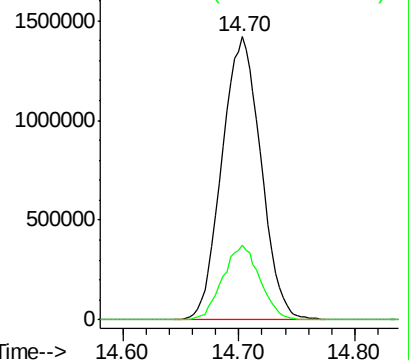
105 100

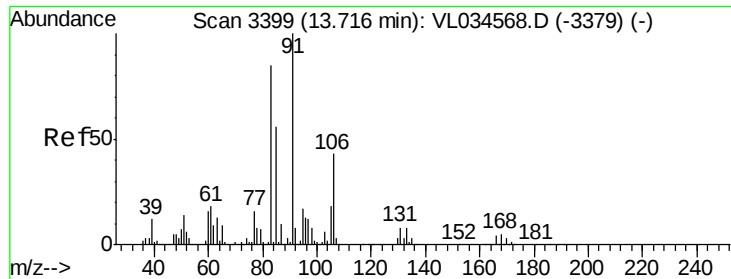
120 25.3 20.7 31.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





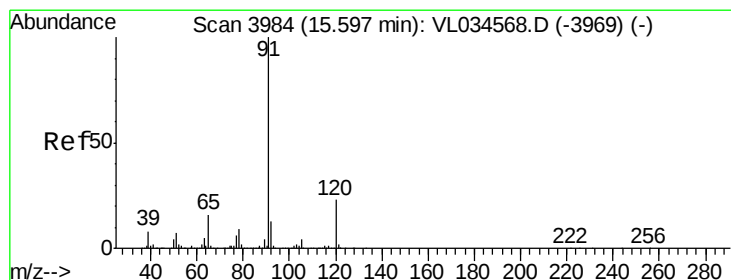
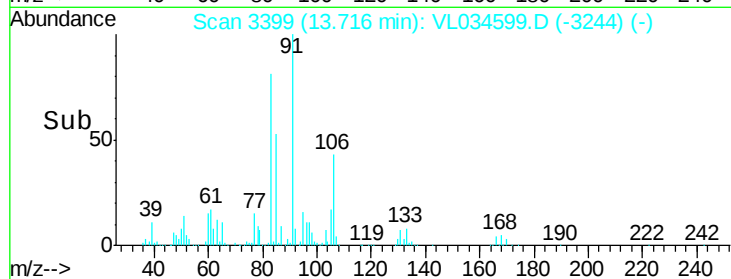
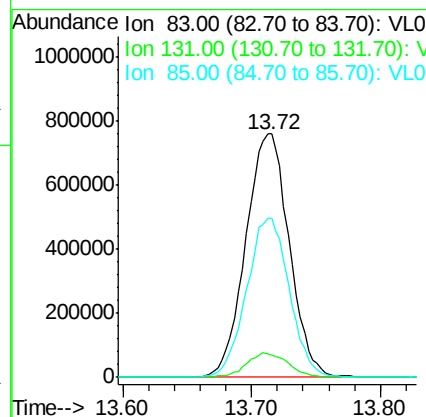
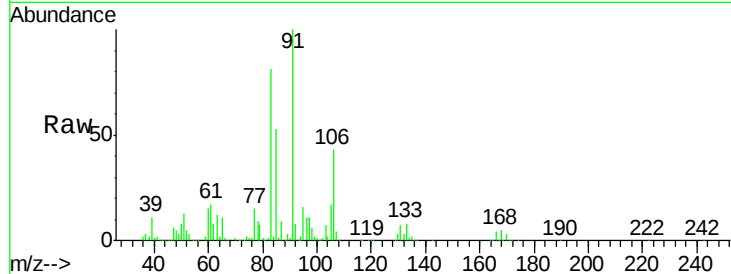
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.290 ppbv
 RT: 13.72 min Scan# 3399
 Delta R.T. -0.00 min
 Lab File: VL034599.D
 Acq: 5 Feb 2020 9:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 83 Resp: 1776626
 Ion Ratio Lower Upper
 83 100
 131 9.8 4.9 14.6
 85 64.7 32.6 98.0

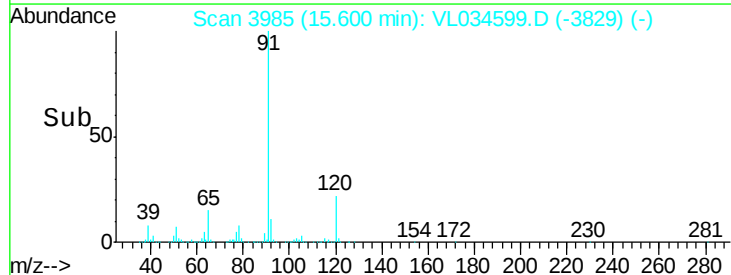
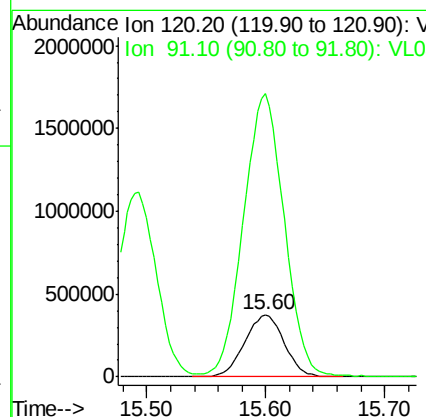
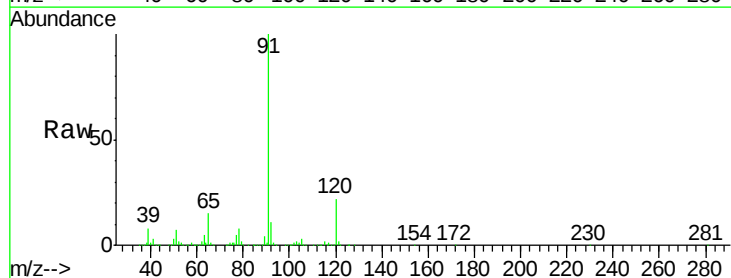
Manual Integrations
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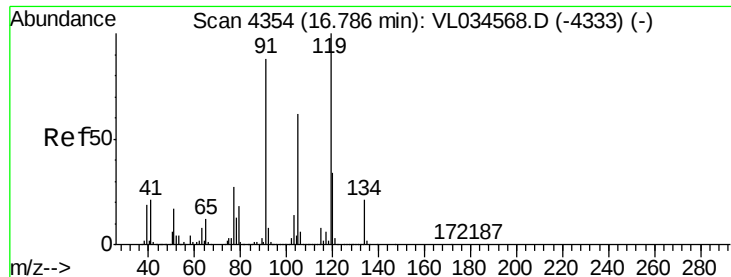
MMDadoda
 2/5/2020 2:51:31 PM



#64
 n-propylbenzene
 Concen: 9.293 ppbv
 RT: 15.60 min Scan# 3985
 Delta R.T. 0.00 min
 Lab File: VL034599.D
 Acq: 5 Feb 2020 9:38

Tgt Ion: 120 Resp: 858482
 Ion Ratio Lower Upper
 120 100
 91 473.0 365.3 547.9





#65

tert-Butylbenzene

Concen: 9.354 ppbv

RT: 16.79 min Scan# 4355

Delta R.T. 0.00 min

Lab File: VL034599.D

Acq: 5 Feb 2020 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 3043083

Ion Ratio Lower Upper

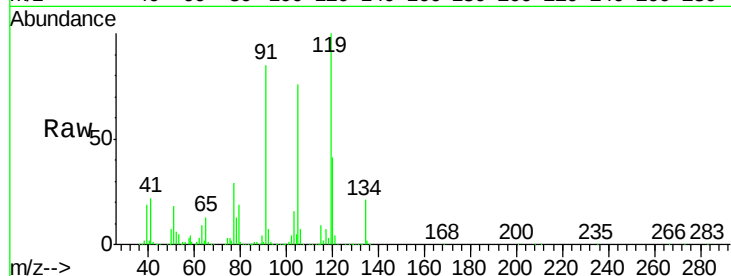
119 100

91 91.0 72.2 108.4

134 19.7 15.9 23.9

Manual Integrations
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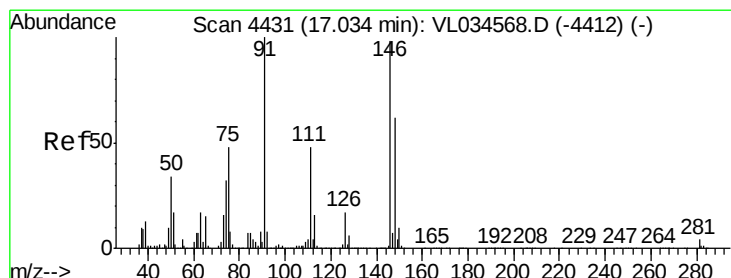
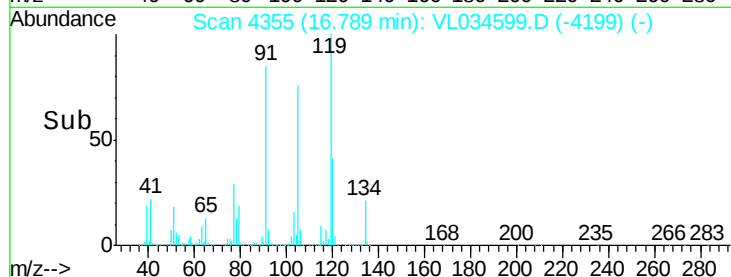
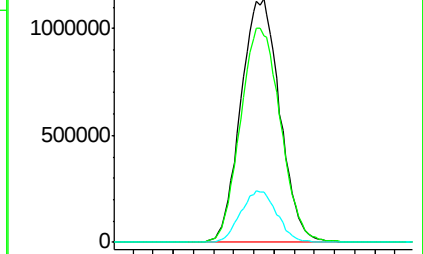
MMDadoda
2/5/2020 2:51:31 PM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 10.730 ppbv

RT: 17.03 min Scan# 4430

Delta R.T. -0.00 min

Lab File: VL034599.D

Acq: 5 Feb 2020 9:38

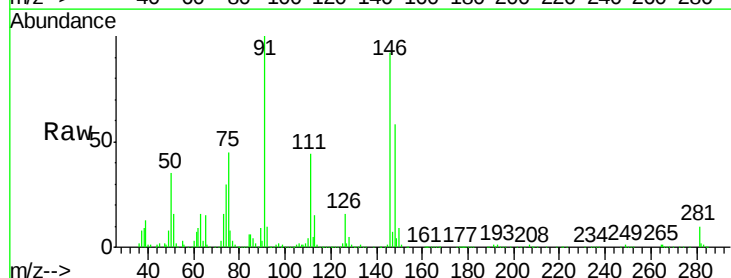
Tgt Ion: 91 Resp: 1463667

Ion Ratio Lower Upper

91 100

126 16.3 13.4 20.0

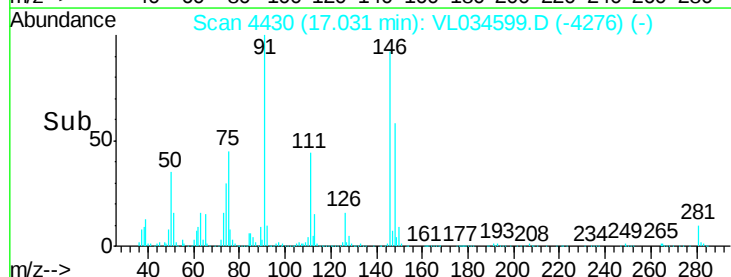
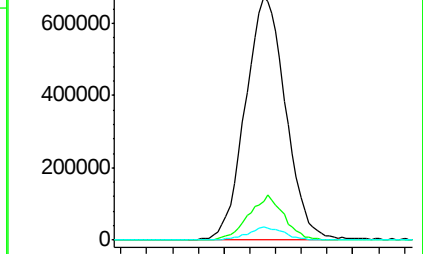
128 5.0 4.3 6.5

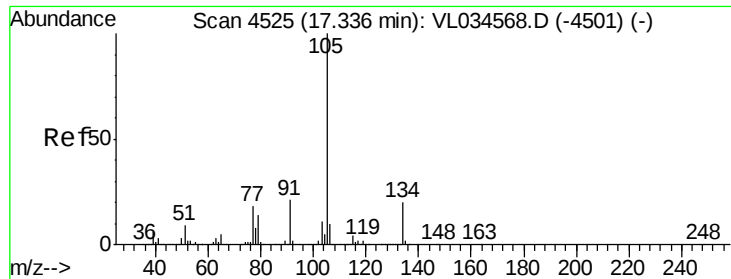


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





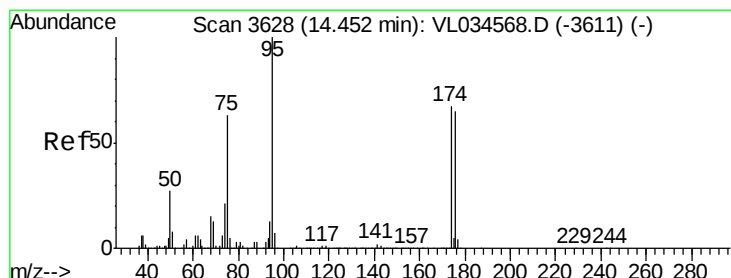
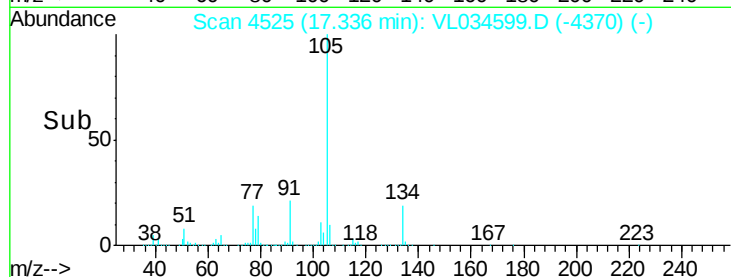
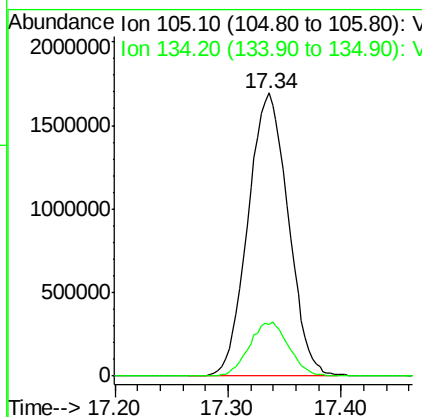
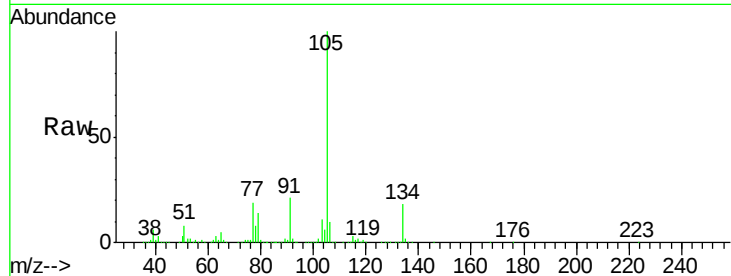
#67
 sec-Butylbenzene
 Concen: 9.380 ppbv
 RT: 17.34 min Scan# 4525
 Delta R.T. -0.00 min
 Lab File: VL034599.D
 Acq: 5 Feb 2020 9:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 105 Resp: 4193344
 Ion Ratio Lower Upper
 105 100
 134 18.7 15.5 23.3

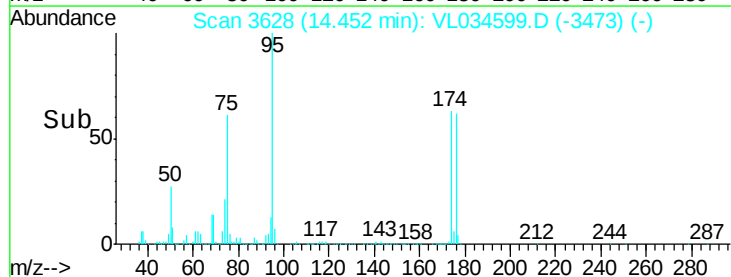
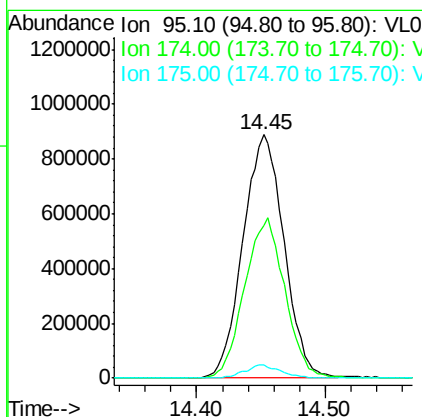
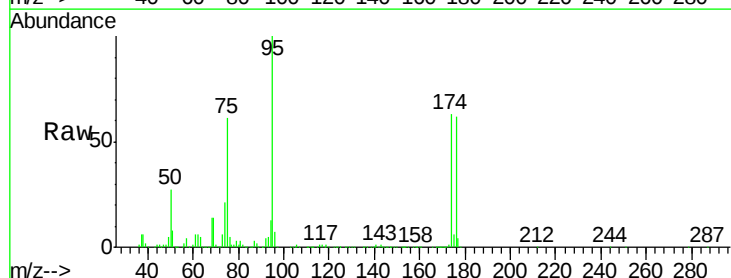
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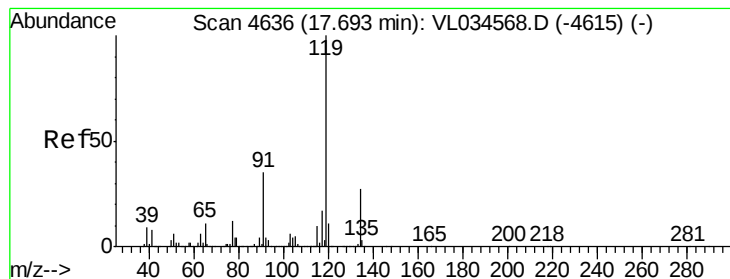
MMDadoda
 2/5/2020 2:51:31 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.980 ppbv
 RT: 14.45 min Scan# 3628
 Delta R.T. -0.00 min
 Lab File: VL034599.D
 Acq: 5 Feb 2020 9:38

Tgt Ion: 95 Resp: 1967304
 Ion Ratio Lower Upper
 95 100
 174 65.0 52.3 78.5
 175 4.8 3.8 5.6





#69

p-Isopropyltoluene

Concen: 9.827 ppbv

RT: 17.70 min Scan# 4637

Delta R.T. 0.00 min

Lab File: VL034599.D

Acq: 5 Feb 2020 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 119 Resp: 3567282

Ion Ratio Lower Upper

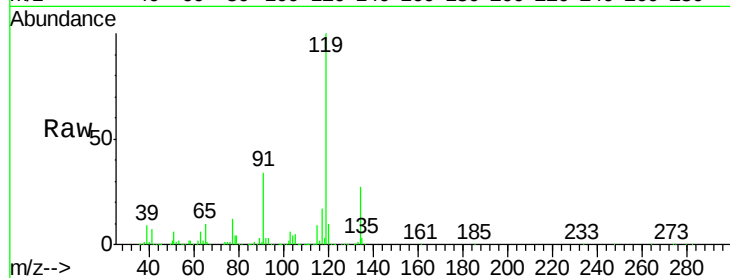
119 100

134 25.8 20.7 31.1

91 33.9 26.9 40.3

Manual Integrations
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MMDadoda
2/5/2020 2:51:31 PM

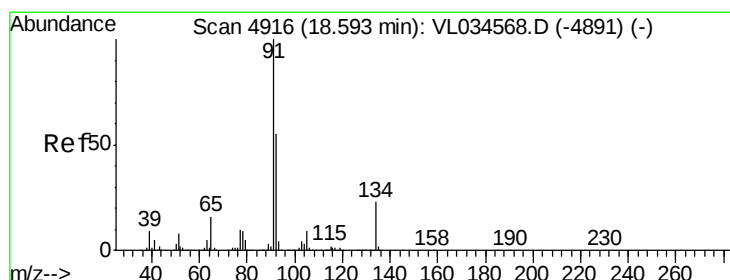
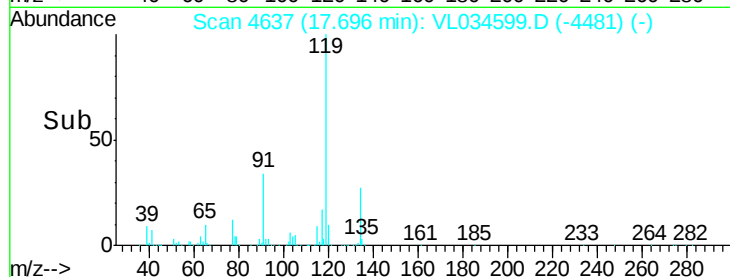


Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V

Time-->



#70

n-Butylbenzene

Concen: 10.065 ppbv

RT: 18.59 min Scan# 4916

Delta R.T. -0.00 min

Lab File: VL034599.D

Acq: 5 Feb 2020 9:38

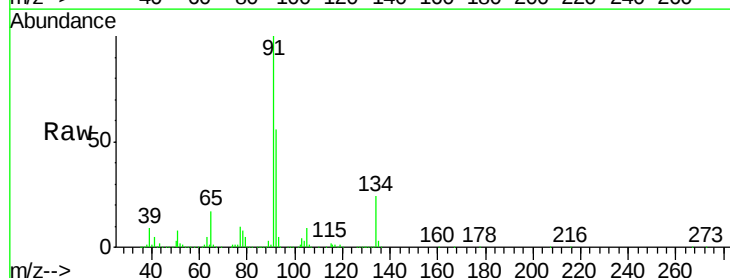
Tgt Ion: 91 Resp: 3878255

Ion Ratio Lower Upper

91 100

92 54.5 43.6 65.4

134 22.7 18.2 27.4

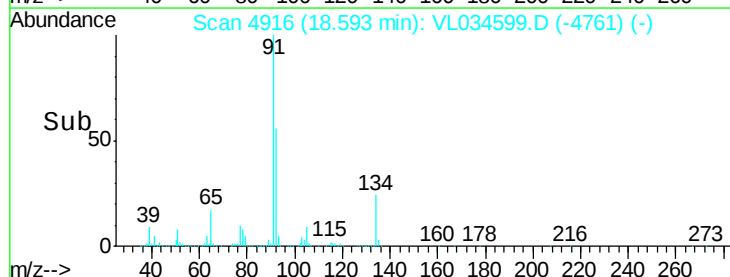


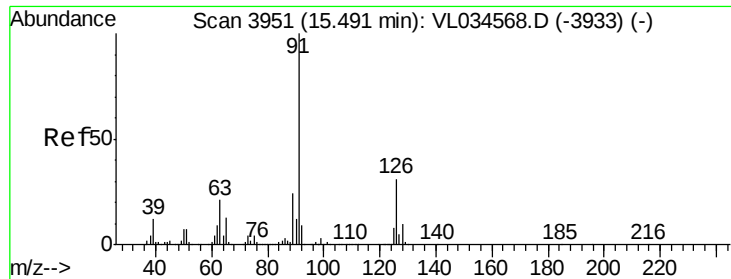
Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V

Time-->





#71

2-Chlorotoluene

Concen: 9.447 ppbv

RT: 15.49 min Scan# 3952

Delta R.T. 0.00 min

Lab File: VL034599.D

Acq: 5 Feb 2020 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2574837

Ion Ratio Lower Upper

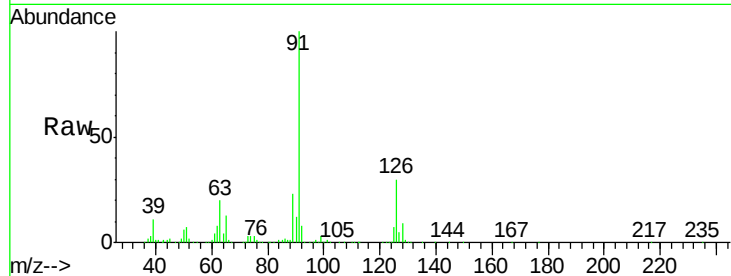
91 100

126 29.9 12.0 47.8

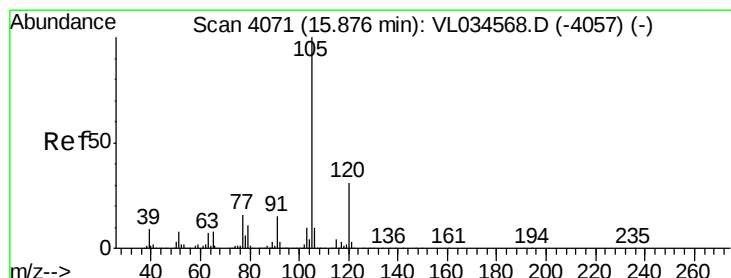
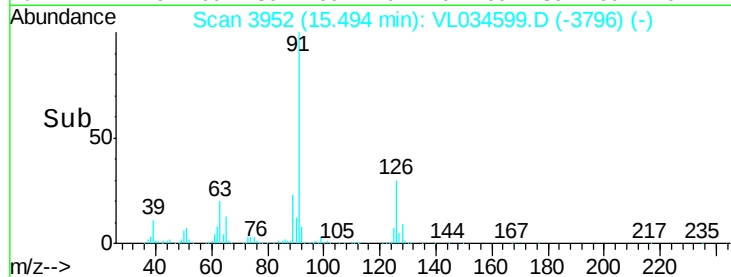
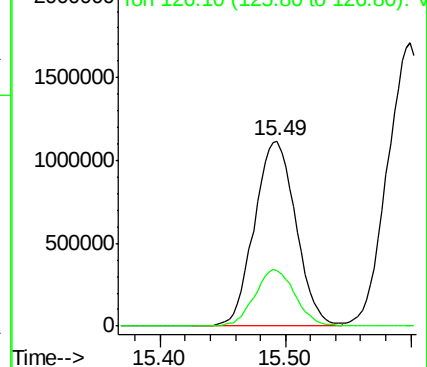
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Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 9.463 ppbv

RT: 15.88 min Scan# 4071

Delta R.T. -0.00 min

Lab File: VL034599.D

Acq: 5 Feb 2020 9:38

Tgt Ion: 105 Resp: 2880330

Ion Ratio Lower Upper

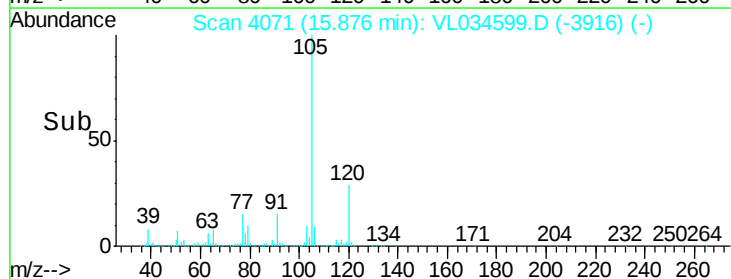
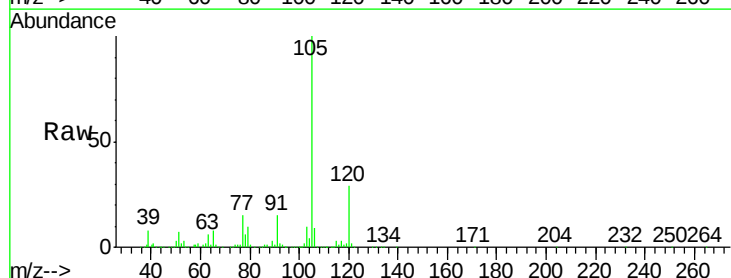
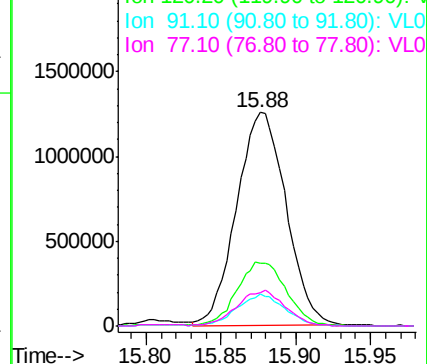
105 100

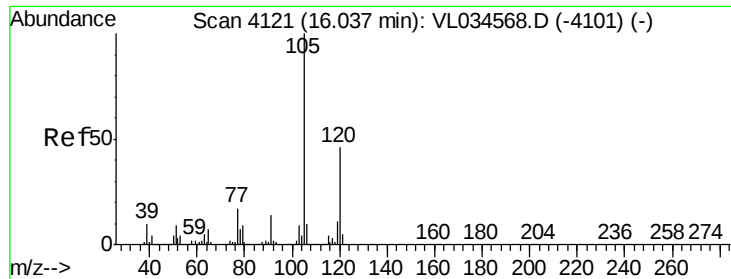
120 30.3 23.8 35.6

91 14.5 11.8 17.8

77 16.6 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





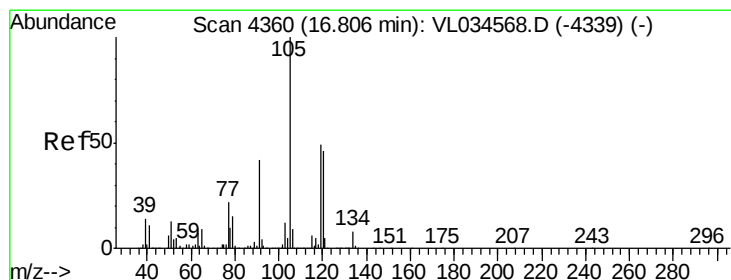
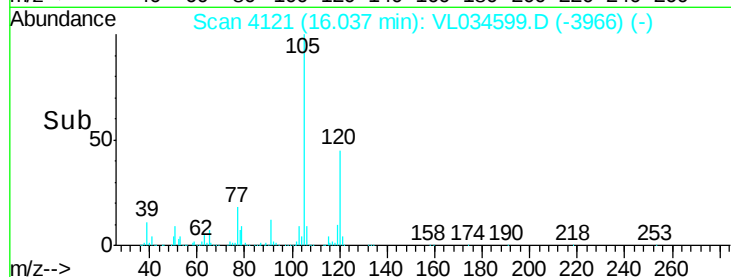
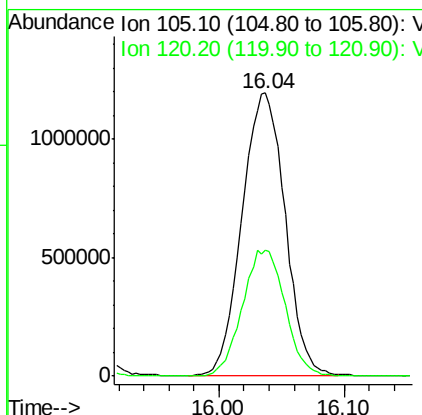
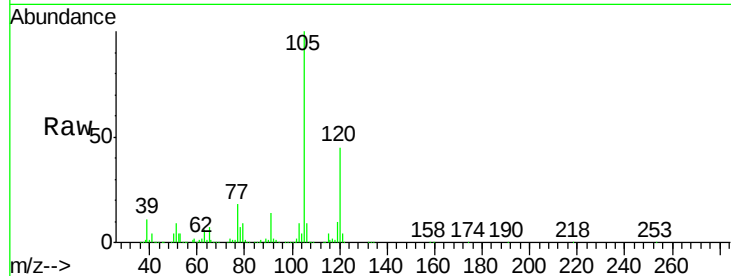
#73
 1,3,5-Trimethylbenzene
 Concen: 9.537 ppbv
 RT: 16.04 min Scan# 4121
 Delta R.T. -0.00 min
 Lab File: VL034599.D
 Acq: 5 Feb 2020 9:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:105 Resp: 2836417
 Ion Ratio Lower Upper
 105 100
 120 44.6 37.0 55.6

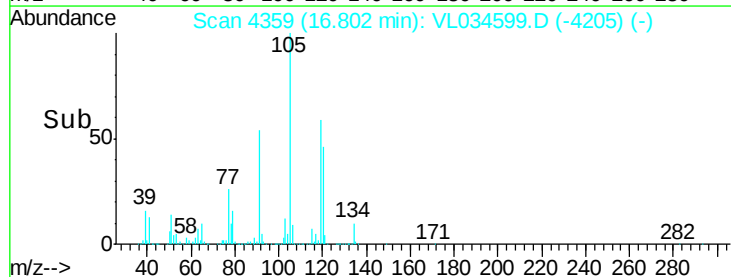
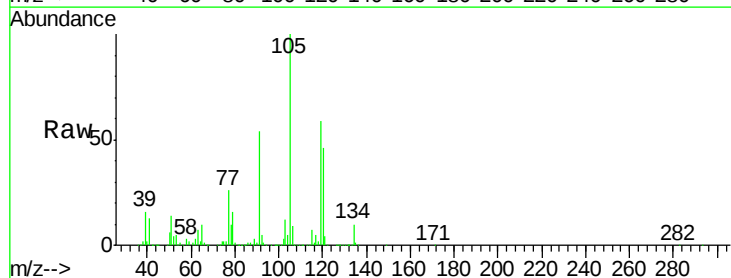
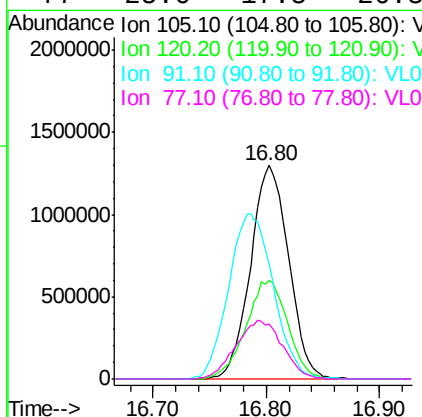
Manual Integrations
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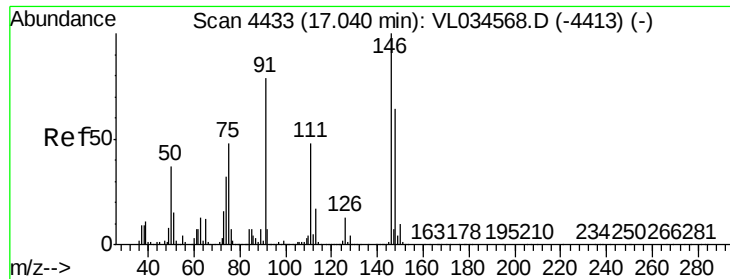
MMDadoda
 2/5/2020 2:51:31 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 9.223 ppbv
 RT: 16.80 min Scan# 4359
 Delta R.T. -0.00 min
 Lab File: VL034599.D
 Acq: 5 Feb 2020 9:38

Tgt Ion:105 Resp: 3036619
 Ion Ratio Lower Upper
 105 100
 120 46.4 37.1 55.7
 91 53.7 34.3 51.5#
 77 25.6 17.5 26.3





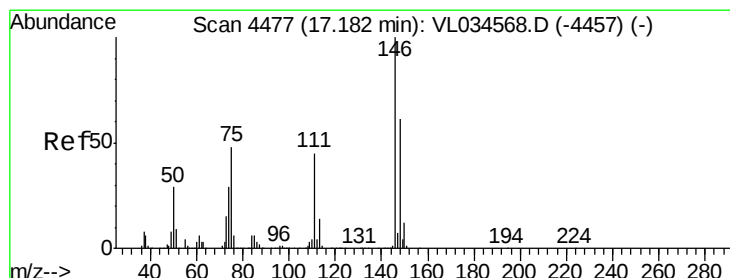
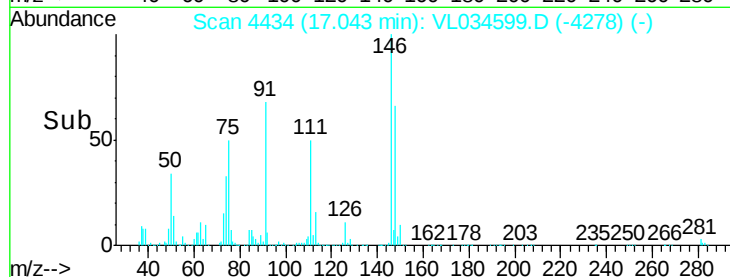
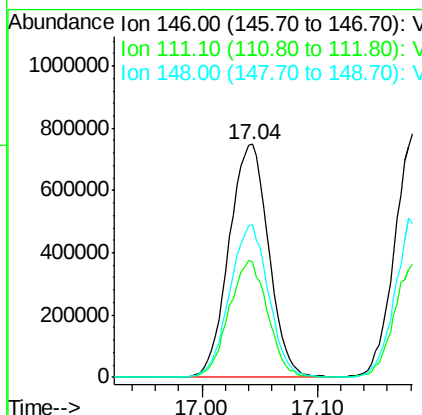
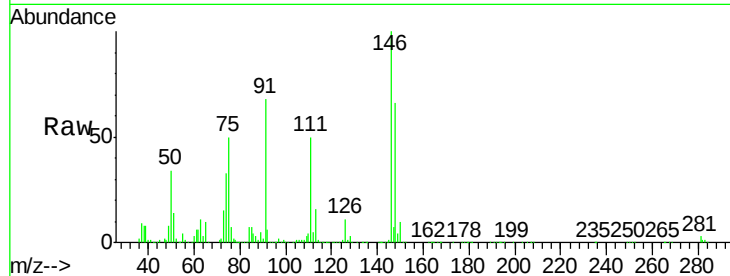
#75
 1,3-Dichlorobenzene
 Concen: 9.287 ppbv
 RT: 17.04 min Scan# 4434
 Delta R.T. 0.00 min
 Lab File: VL034599.D
 Acq: 5 Feb 2020 9:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 1760630
 Ion Ratio Lower Upper
 146 100
 111 49.3 24.7 74.1
 148 64.8 32.8 98.4

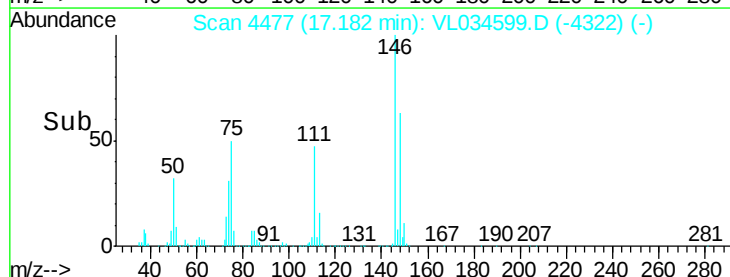
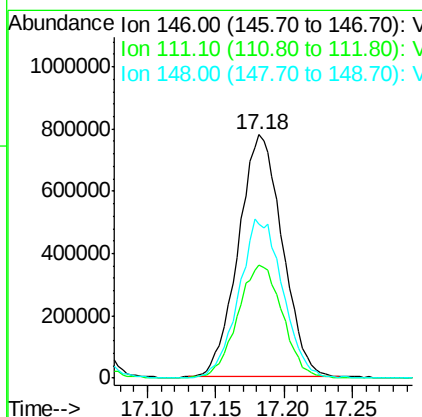
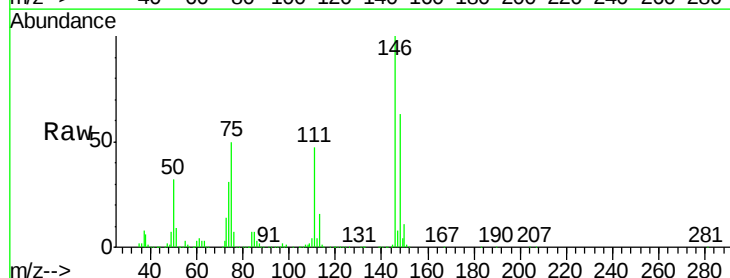
Manual Integrations
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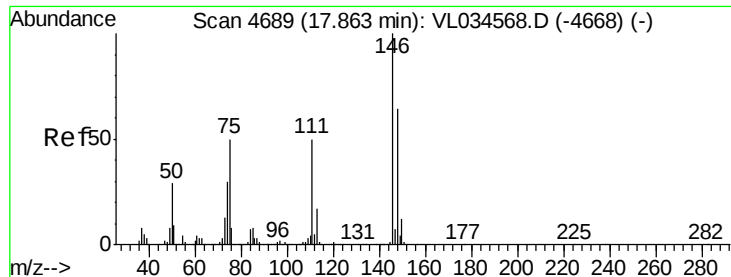
MMDadoda
 2/5/2020 2:51:31 PM



#76
 1,4-Dichlorobenzene
 Concen: 9.336 ppbv
 RT: 17.18 min Scan# 4477
 Delta R.T. -0.00 min
 Lab File: VL034599.D
 Acq: 5 Feb 2020 9:38

Tgt Ion:146 Resp: 1744374
 Ion Ratio Lower Upper
 146 100
 111 48.0 24.1 72.2
 148 66.0 32.6 98.0





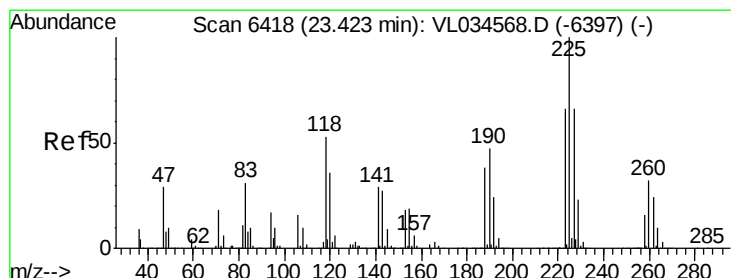
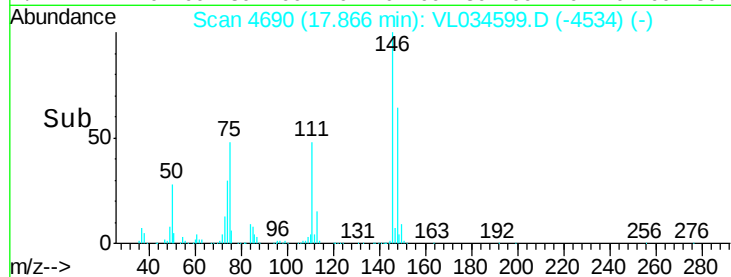
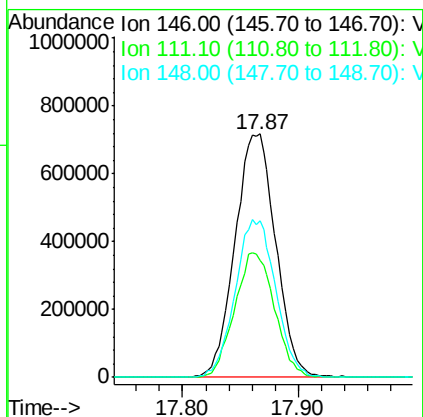
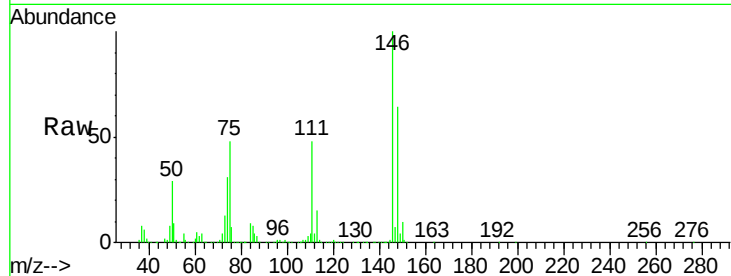
#77
 1,2-Dichlorobenzene
 Concen: 9.533 ppbv
 RT: 17.87 min Scan# 4690
 Delta R.T. 0.00 min
 Lab File: VL034599.D
 Acq: 5 Feb 2020 9:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 1736060
 Ion Ratio Lower Upper
 146 100
 111 50.6 25.1 75.3
 148 64.8 32.2 96.6

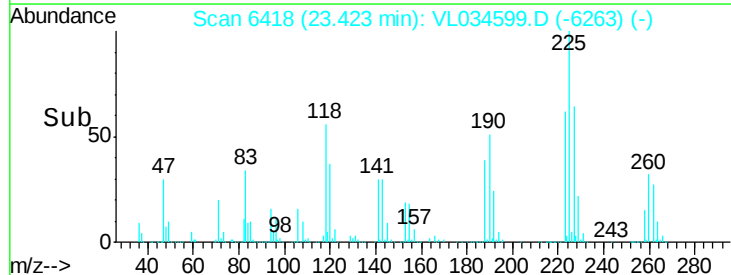
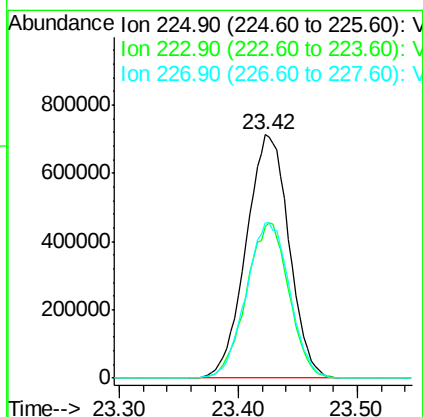
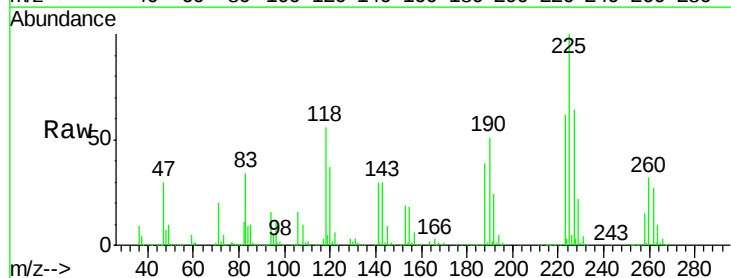
Manual Integrations
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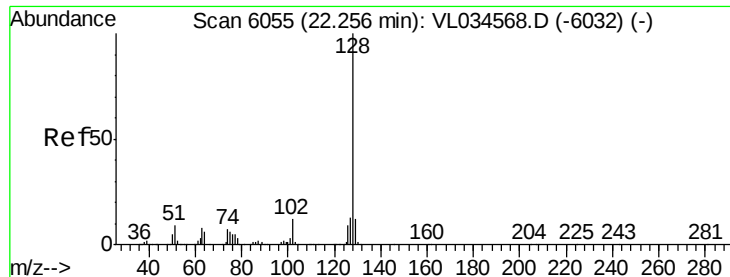
MMDadoda
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#78
 Hexachloro-1,3-Butadiene
 Concen: 10.198 ppbv
 RT: 23.42 min Scan# 6418
 Delta R.T. -0.00 min
 Lab File: VL034599.D
 Acq: 5 Feb 2020 9:38

Tgt Ion:225 Resp: 1776001
 Ion Ratio Lower Upper
 225 100
 223 63.3 50.9 76.3
 227 64.8 51.6 77.4





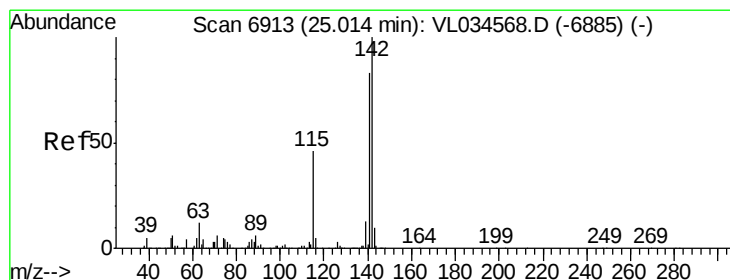
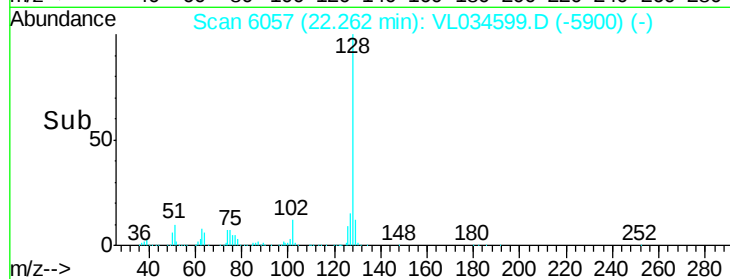
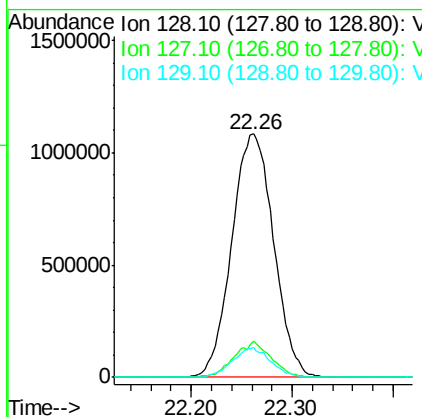
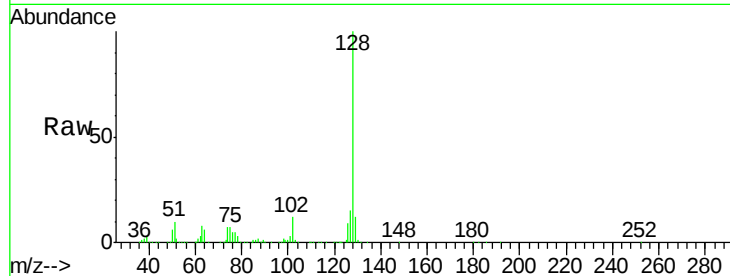
#79
Naphthalene
Concen: 12.013 ppbv
RT: 22.26 min Scan# 6057
Delta R.T. 0.01 min
Lab File: VL034599.D
Acq: 5 Feb 2020 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.7	10.1	15.1
129	12.3	9.3	13.9

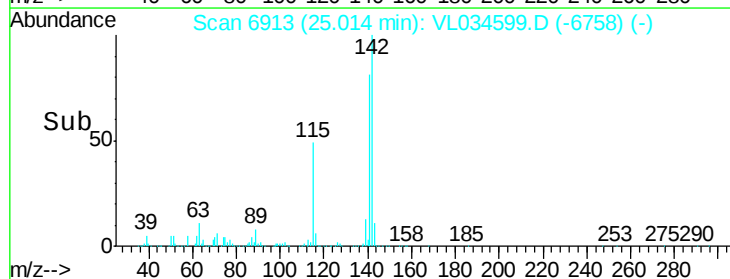
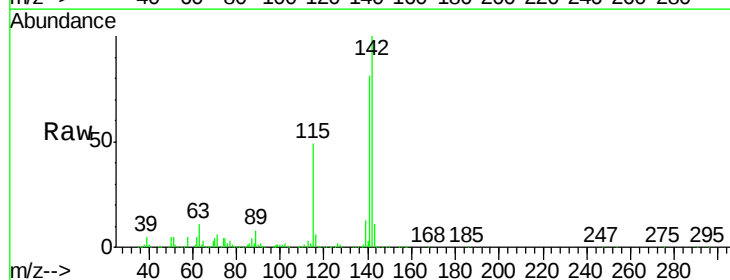
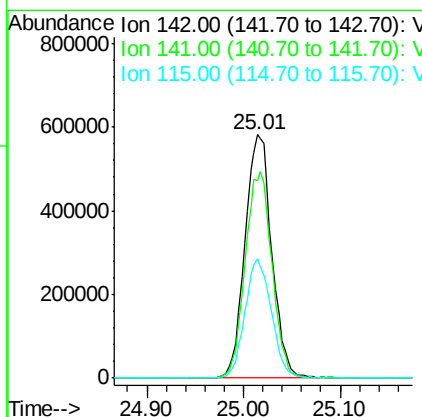
Manual Integrations
APPROVED

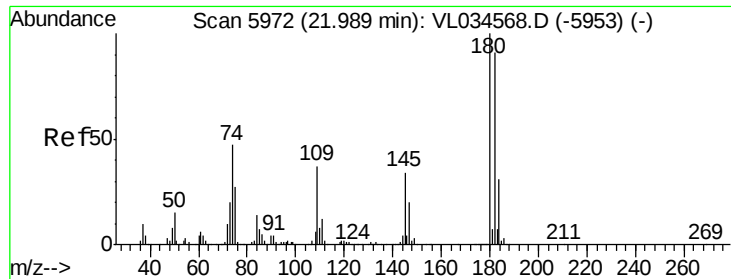
MMDadoda
2/5/2020 2:51:31 PM



#80
Naphthalene, 2-methyl-
Concen: 11.222 ppbv
RT: 25.01 min Scan# 6913
Delta R.T. -0.00 min
Lab File: VL034599.D
Acq: 5 Feb 2020 9:38

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.9	67.0	100.4
115	48.4	39.5	59.3





#81
 1,2,4-Trichlorobenzene
 Concen: 11.974 ppbv
 RT: 21.99 min Scan# 5973
 Delta R.T. 0.00 min
 Lab File: VL034599.D
 Acq: 5 Feb 2020 9:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.4	77.8	116.6
184	30.6	25.4	38.0

Manual Integrations
 APPROVED

MMDadoda
 2/5/2020 2:51:31 PM

