

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012720\
 Data File : VL034566.D
 Acq On : 27 Jan 2020 20:10
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 1/28/2020 2:03:13 PM

Quant Time: Jan 28 02:43:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 0
 QLast Update : Thu Jan 09 03:01:19 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1122844	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2261076	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2419371	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1924163	9.53	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	1411712	7.972	ppbv	98
3) Chlorodifluoromethane	2.95	51	1277245	9.547	ppbv	98
4) Chloromethane	3.11	50	678081	8.533	ppbv	100
5) Vinyl Chloride	3.23	62	676217	8.690	ppbv	97
6) Bromomethane	3.45	94	403177	10.409	ppbv	99
7) Chloroethane	3.53	64	256997	9.477	ppbv	99
8) Dichlorotetrafluoroethane	3.16	85	1651520	9.299	ppbv	99
9) Propene	2.98	41	461310	8.944	ppbv	98
10) Heptane	8.14	43	1338068	10.046	ppbv	99
11) Trichlorofluoromethane	3.93	101	1962797	9.579	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1291463	9.909	ppbv	99
13) Ethanol	3.57	45	139395	9.740	ppbv	100
14) Bromoethene	3.72	108	519632	9.857	ppbv	99
15) Acetone	3.83	43	1371521	8.370	ppbv	98
16) 1,3-Butadiene	3.30	39	622838	9.882	ppbv	99
17) tert-Butyl alcohol	4.28	59	1382034	10.533	ppbv	99
18) 1,1-Dichloroethene	4.27	96	581140	10.236	ppbv	91
19) Isopropyl Alcohol	3.95	45	1066093	10.050	ppbv	99
20) Methylene Chloride	4.33	84	495313	7.682	ppbv	97
21) Allyl Chloride	4.40	41	937251	9.951	ppbv	99
22) trans-1,2-Dichloroethene	4.88	96	556509	9.637	ppbv	98
23) Vinyl Acetate	5.07	43	1862524	9.845	ppbv	99
24) 1,1-Dichloroethane	5.01	63	1409525	9.274	ppbv	99
25) Ethyl Acetate	5.68	43	2333321	9.118	ppbv	100
26) Hexane	5.69	57	1034708	9.596	ppbv	96
27) Carbon Disulfide	4.54	76	1442551	10.584	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	1755972	9.750	ppbv	99
29) Chloroform	5.76	83	1755343	9.408	ppbv	97
30) Cyclohexane	7.15	84	814208	10.159	ppbv	99
31) cis-1,2-Dichloroethene	5.55	61	1091028	9.929	ppbv	96
32) 1,1,1-Trichloroethane	6.52	97	1842269	9.512	ppbv	100
34) 2-Butanone	5.24	43	1515991	9.382	ppbv	100
35) Carbon Tetrachloride	7.03	117	1984970	9.680	ppbv	98
36) Benzene	6.91	78	1907527	9.678	ppbv	100
37) 1,2-Dichloroethane	6.32	62	1529296	9.555	ppbv	99
38) Trichloroethene	7.86	130	819883	10.298	ppbv	97
39) 1,2-Dichloropropane	7.63	63	783961	9.673	ppbv	95
40) 1,4-Dioxane	7.85	88	313516	9.558	ppbv #	99
41) Tetrahydrofuran	6.05	42	822683	9.925	ppbv	98
42) Bromodichloromethane	7.82	83	1962992	9.967	ppbv	95
43) Methyl Methacrylate	8.03	69	828453	10.304	ppbv	99

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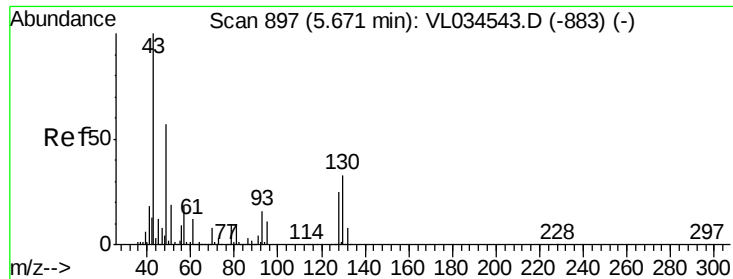
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 0
 QLast Update : Thu Jan 09 03:01:19 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	3484679	9.557	ppbv	99
45) t-1,3-Dichloropropene	9.31	75	1117056	10.786	ppbv	99
46) cis-1,3-Dichloropropene	8.73	75	1237976	10.457	ppbv	98
47) 1,1,2-Trichloroethane	9.51	97	861017	9.637	ppbv	94
48) Dibromochloromethane	10.34	129	1656474	10.695	ppbv	99
49) Bromoform	13.09	173	1507896	10.754	ppbv	100
50) 4-Methyl-2-Pentanone	8.76	43	2312254	9.858	ppbv	100
51) 2-Hexanone	10.16	43	1925767	10.171	ppbv #	100
52) Tetrachloroethene	11.26	164	767589	9.979	ppbv	99
53) Toluene	9.83	91	2282113	10.539	ppbv	99
54) 1,2-Dibromoethane	10.65	107	1378074	10.600	ppbv	94
56) 1,1,1,2-Tetrachloroethane	12.17	131	1134831	9.717	ppbv	97
57) Chlorobenzene	12.19	112	1831270	9.175	ppbv	99
58) Ethyl Benzene	12.76	91	3218655	9.865	ppbv	99
59) m/p-Xylene	13.04	91	5441567m	19.072	ppbv	
60) o-Xylene	13.74	91	2791914	9.751	ppbv	100
61) Styrene	13.57	104	1938156	9.901	ppbv	100
62) Isopropylbenzene	14.72	105	3590538	9.587	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.73	83	2015518	8.776	ppbv	99
64) n-propylbenzene	15.62	120	958913	10.027	ppbv	99
65) tert-Butylbenzene	16.80	119	3395404	10.035	ppbv	99
66) Benzyl Chloride	17.05	91	1647165	11.108	ppbv	100
67) sec-Butylbenzene	17.35	105	4596633	9.674	ppbv	99
69) p-Isopropyltoluene	17.71	119	3875583	10.057	ppbv	100
70) n-Butylbenzene	18.61	91	4101821	9.864	ppbv	100
71) 2-Chlorotoluene	15.51	91	2851698	9.805	ppbv	99
72) 4-Ethyltoluene	15.90	105	3158561	9.859	ppbv	99
73) 1,3,5-Trimethylbenzene	16.05	105	3072264	9.774	ppbv	97
74) 1,2,4-Trimethylbenzene	16.82	105	3242152	9.642	ppbv	97
75) 1,3-Dichlorobenzene	17.06	146	1846784	9.170	ppbv	98
76) 1,4-Dichlorobenzene	17.20	146	1815202	9.362	ppbv	99
77) 1,2-Dichlorobenzene	17.88	146	1805240	9.538	ppbv	100
78) Hexachloro-1,3-Butadiene	23.44	225	1508793	8.398	ppbv	99
79) Naphthalene	22.28	128	2580504	10.189	ppbv	98
80) Naphthalene, 2-methyl-	25.03	142	705468	10.056	ppbv #	95
81) 1,2,4-Trichlorobenzene	22.01	180	1523188	9.237	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.00 min

Lab File: VL034566.D

Acq: 27 Jan 2020 20:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 1122844

Ion Ratio Lower Upper

49 100

128 44.5 22.4 67.2

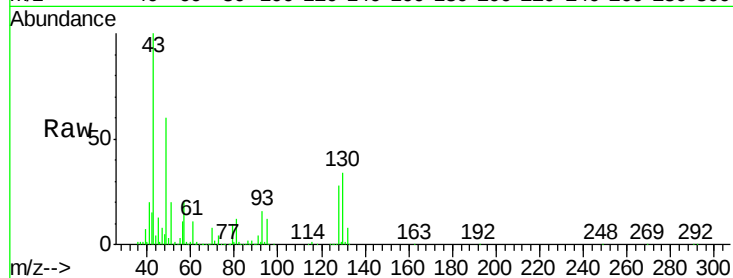
130 57.5 28.3 85.0

Manual Integrations

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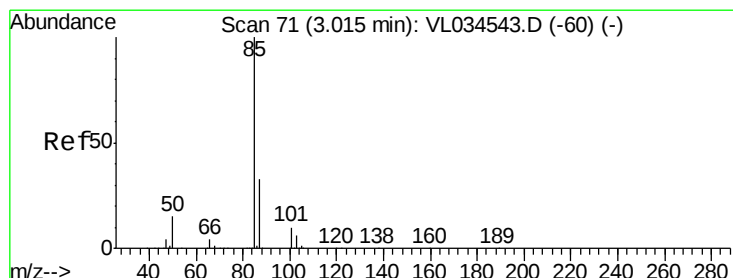
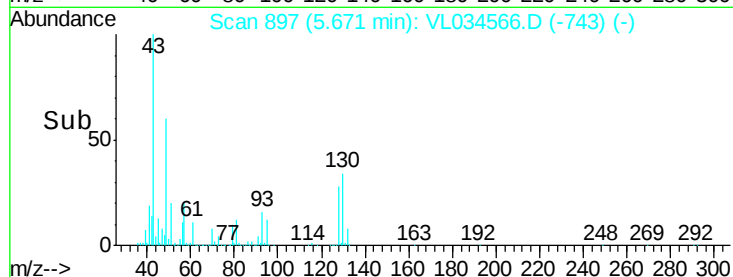
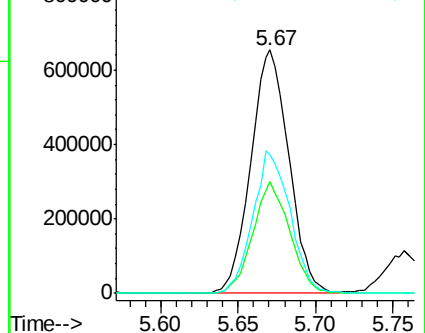
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 7.972 ppbv

RT: 3.01 min Scan# 71

Delta R.T. -0.00 min

Lab File: VL034566.D

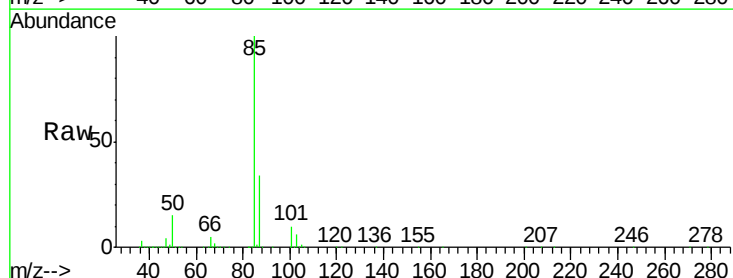
Acq: 27 Jan 2020 20:10

Tgt Ion: 85 Resp: 1411712

Ion Ratio Lower Upper

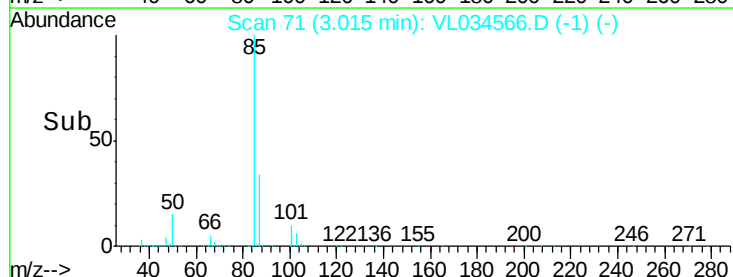
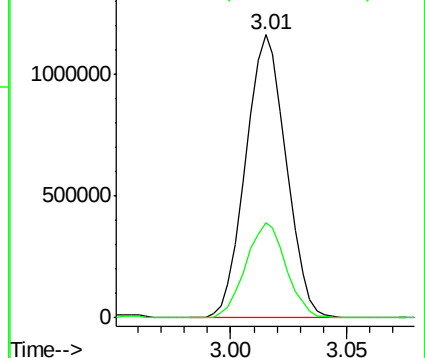
85 100

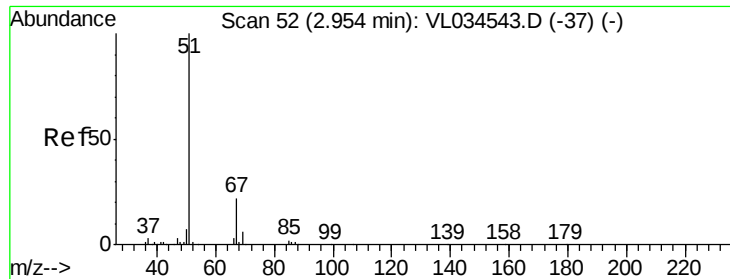
87 33.8 27.9 41.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.547 ppbv

RT: 2.95 min Scan# 52

Delta R.T. -0.00 min

Lab File: VL034566.D

Acq: 27 Jan 2020 20:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 1277245

Ion Ratio Lower Upper

51 100

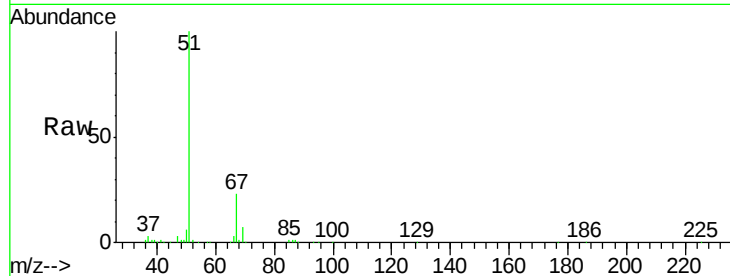
67 22.0 16.8 25.2

Manual Integrations

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

1200000

1000000

800000

600000

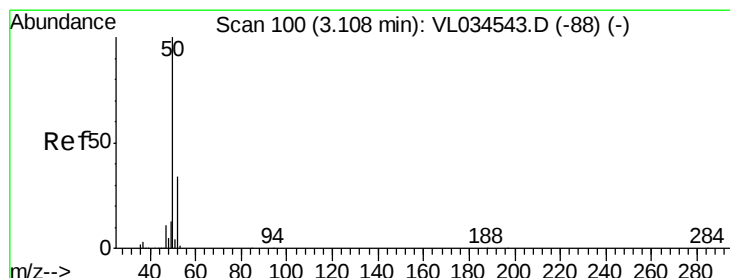
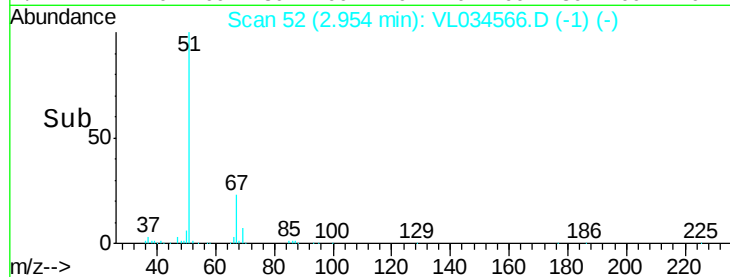
400000

200000

0

Time-->

2.90 2.95 3.00



#4

Chloromethane

Concen: 8.533 ppbv

RT: 3.11 min Scan# 100

Delta R.T. -0.00 min

Lab File: VL034566.D

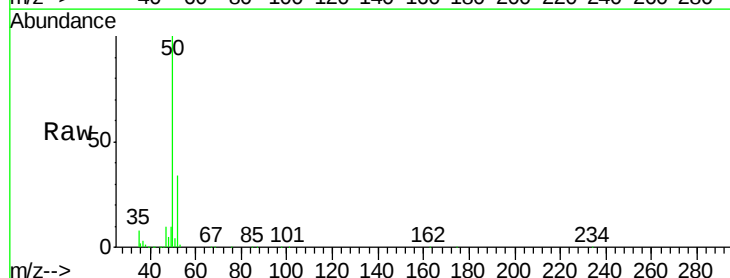
Acq: 27 Jan 2020 20:10

Tgt Ion: 50 Resp: 678081

Ion Ratio Lower Upper

50 100

52 34.3 27.6 41.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

600000

500000

400000

300000

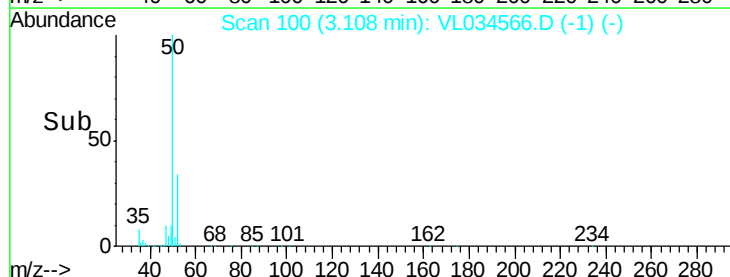
200000

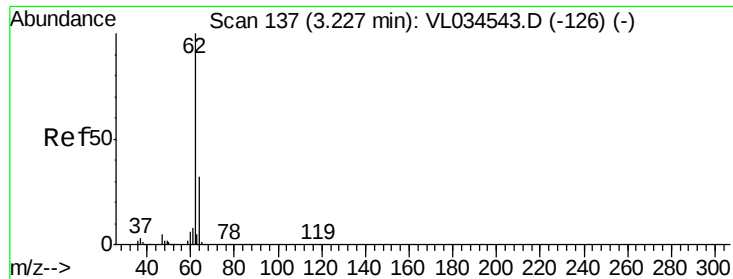
100000

0

Time-->

3.05 3.10 3.15





#5

Vinyl Chloride

Concen: 8.690 ppbv

RT: 3.23 min Scan# 137

Delta R.T. -0.00 min

Lab File: VL034566.D

Acq: 27 Jan 2020 20:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 676217

Ion Ratio Lower Upper

62 100

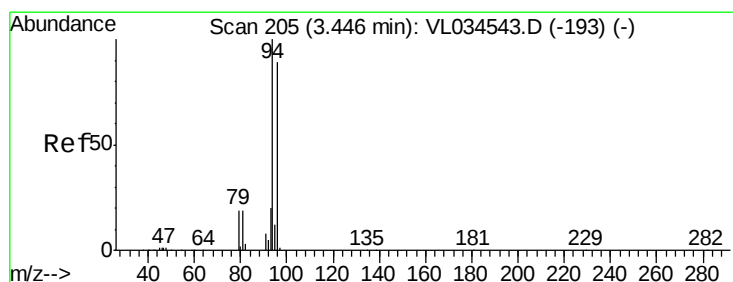
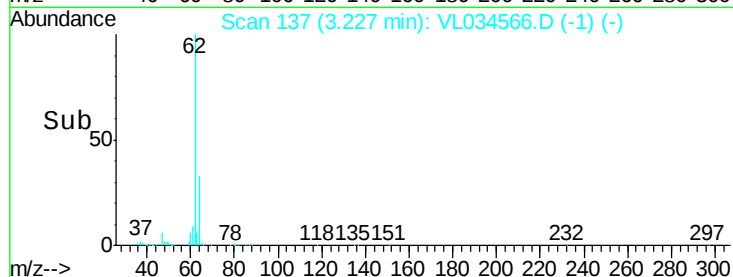
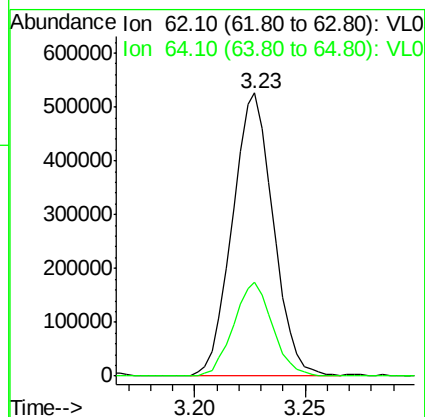
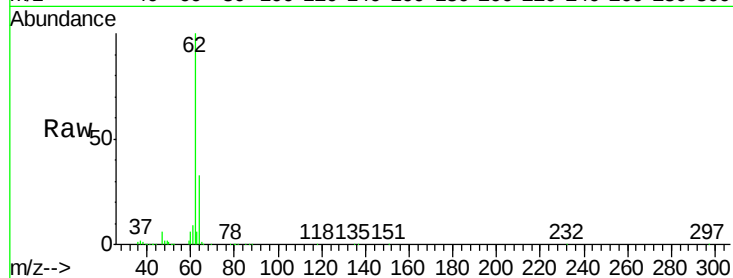
64 33.0 24.9 37.3

Manual Integrations

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#6

Bromomethane

Concen: 10.409 ppbv

RT: 3.45 min Scan# 205

Delta R.T. -0.00 min

Lab File: VL034566.D

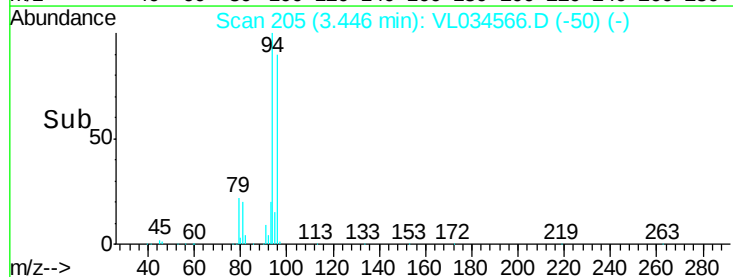
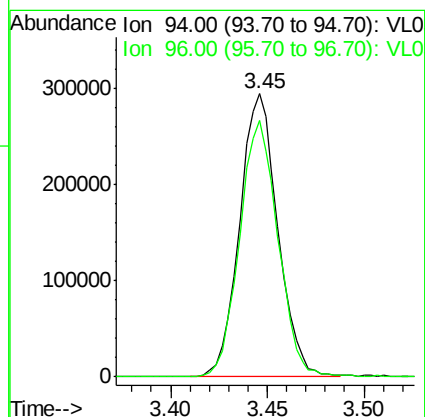
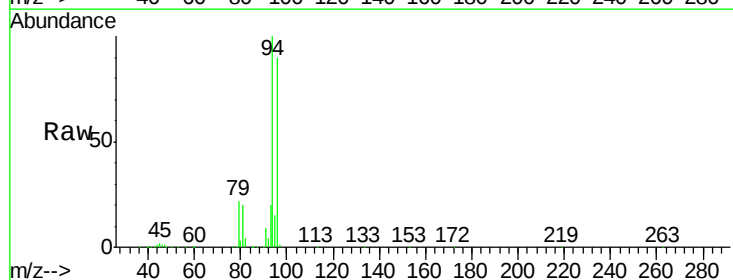
Acq: 27 Jan 2020 20:10

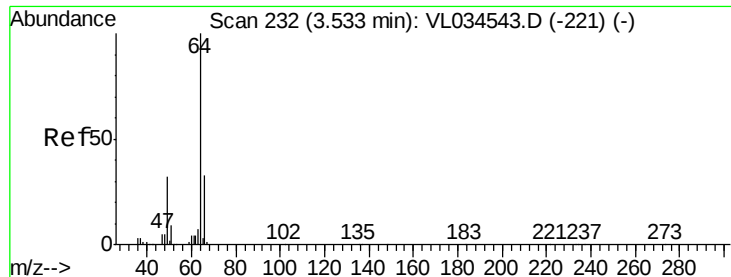
Tgt Ion: 94 Resp: 403177

Ion Ratio Lower Upper

94 100

96 90.4 71.2 106.8





#7

Chloroethane

Concen: 9.477 ppbv

RT: 3.53 min Scan# 231

Delta R.T. -0.00 min

Lab File: VL034566.D

Acq: 27 Jan 2020 20:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 256997

Ion Ratio Lower Upper

64 100

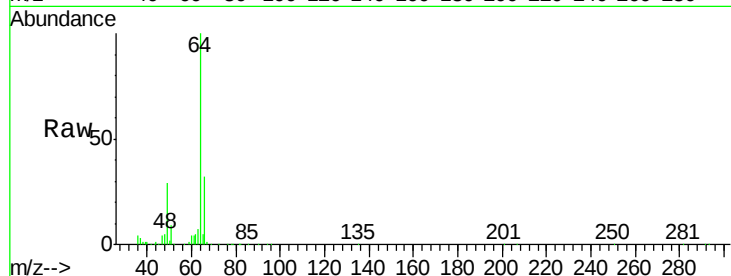
66 31.8 25.0 37.4

Manual Integrations

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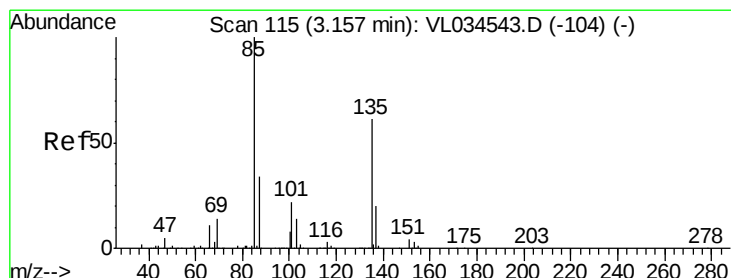
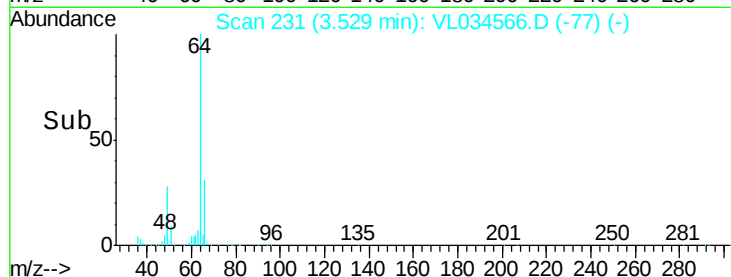
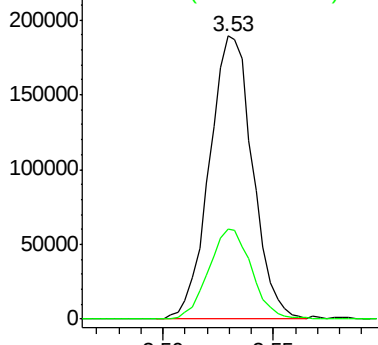
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 9.299 ppbv

RT: 3.16 min Scan# 115

Delta R.T. -0.00 min

Lab File: VL034566.D

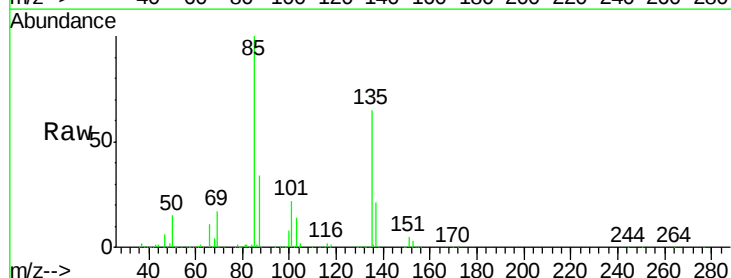
Acq: 27 Jan 2020 20:10

Tgt Ion: 85 Resp: 1651520

Ion Ratio Lower Upper

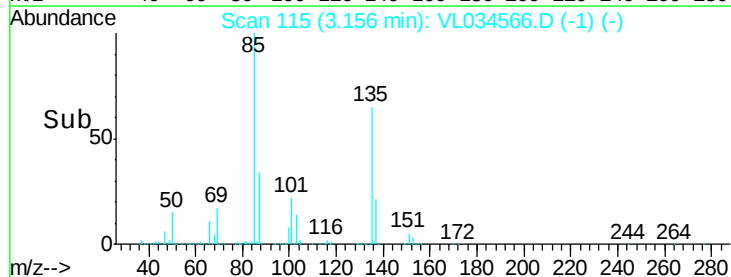
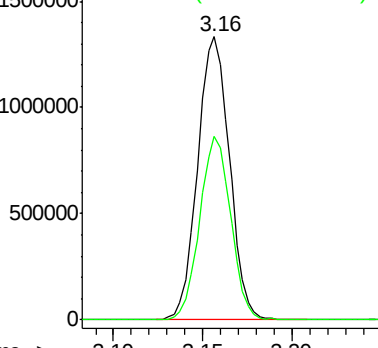
85 100

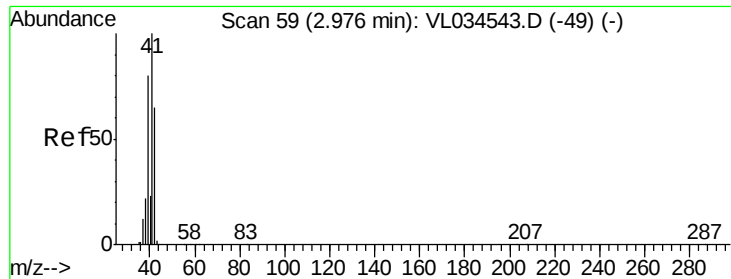
135 63.6 51.8 77.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 8.944 ppbv

RT: 2.98 min Scan# 59

Delta R.T. -0.00 min

Lab File: VL034566.D

Acq: 27 Jan 2020 20:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 461310

Ion Ratio Lower Upper

41 100

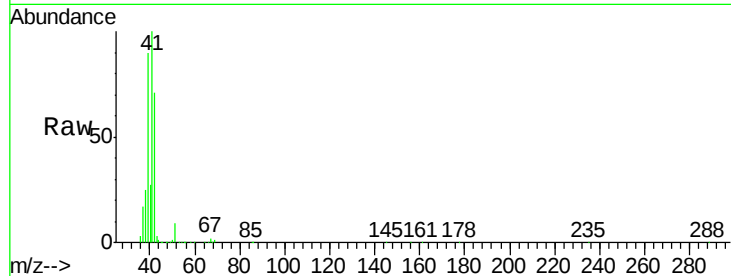
42 71.7 55.8 83.6

Manual Integrations

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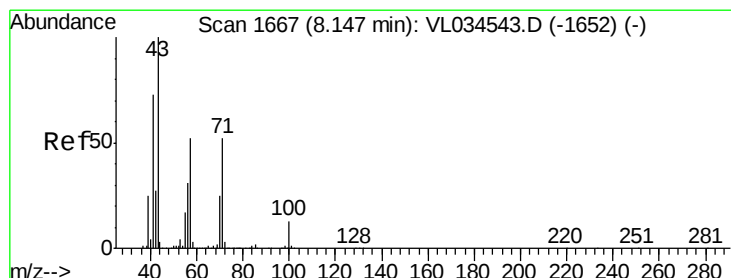
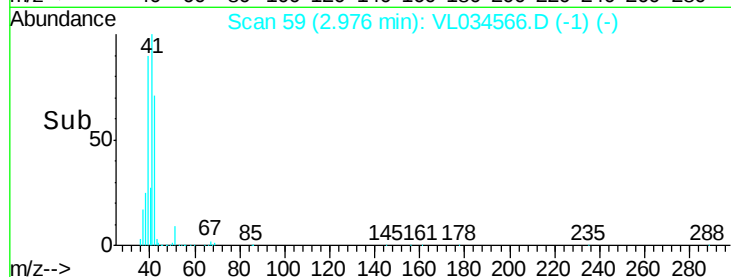
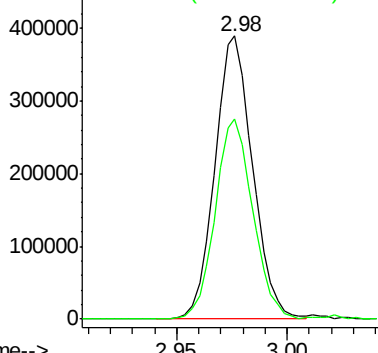
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 10.046 ppbv

RT: 8.14 min Scan# 1666

Delta R.T. -0.00 min

Lab File: VL034566.D

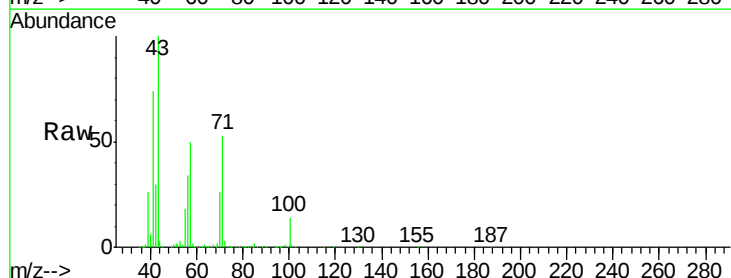
Acq: 27 Jan 2020 20:10

Tgt Ion: 43 Resp: 1338068

Ion Ratio Lower Upper

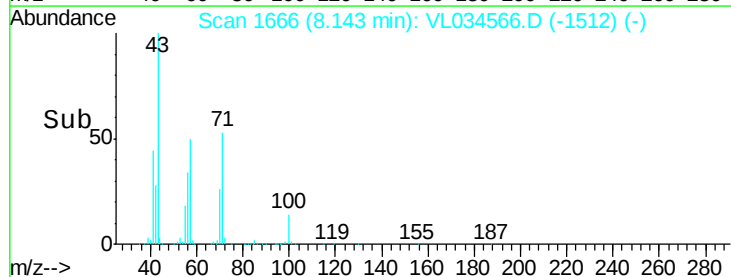
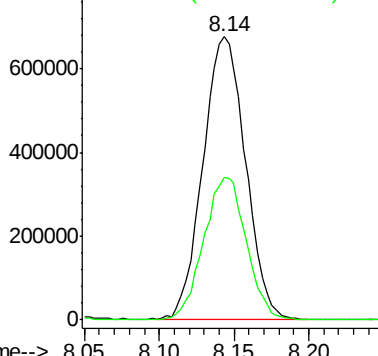
43 100

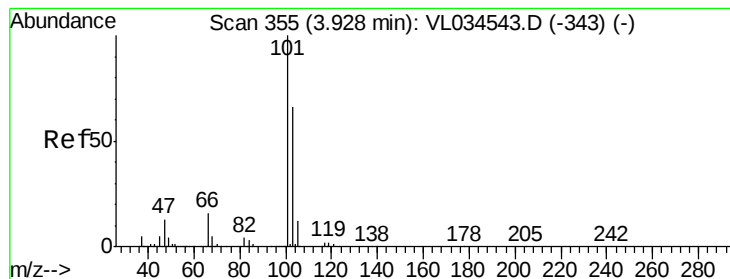
57 50.4 41.0 61.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 9.579 ppbv

RT: 3.93 min Scan# 355

Delta R.T. -0.00 min

Lab File: VL034566.D

Acq: 27 Jan 2020 20:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:101 Resp: 1962797

Ion Ratio Lower Upper

101 100

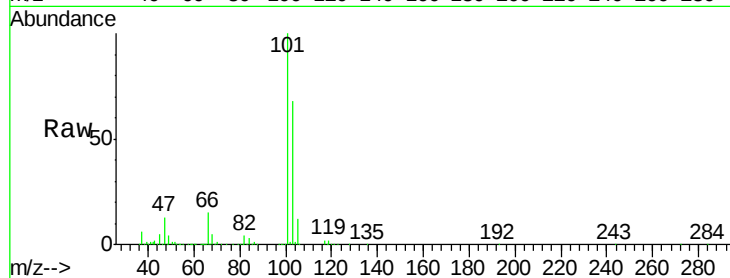
103 68.3 52.1 78.1

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.93

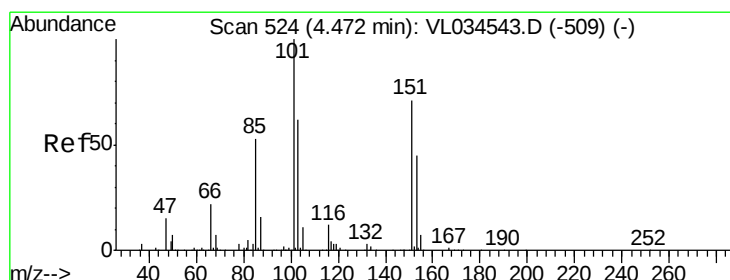
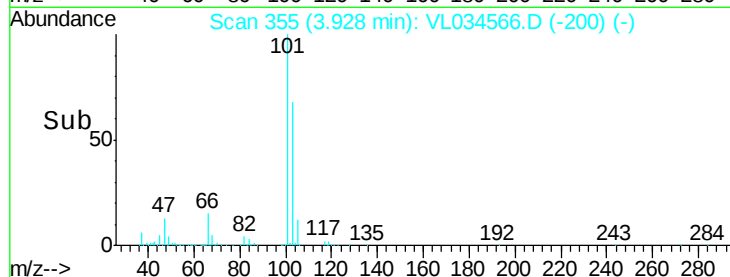
1500000

1000000

500000

0

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.909 ppbv

RT: 4.47 min Scan# 524

Delta R.T. -0.00 min

Lab File: VL034566.D

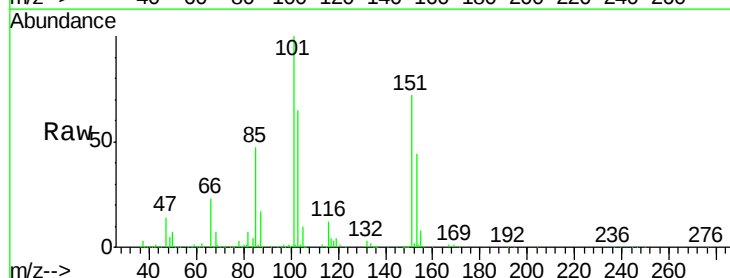
Acq: 27 Jan 2020 20:10

Tgt Ion:101 Resp: 1291463

Ion Ratio Lower Upper

101 100

151 71.2 57.8 86.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

4.47

800000

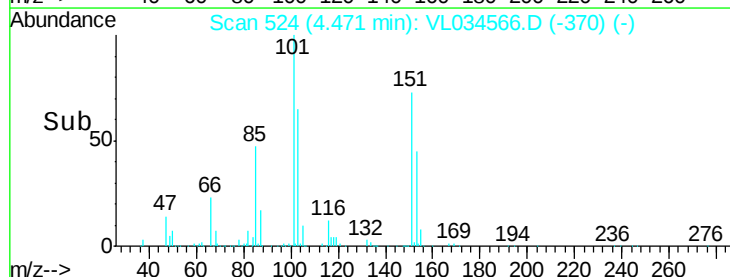
600000

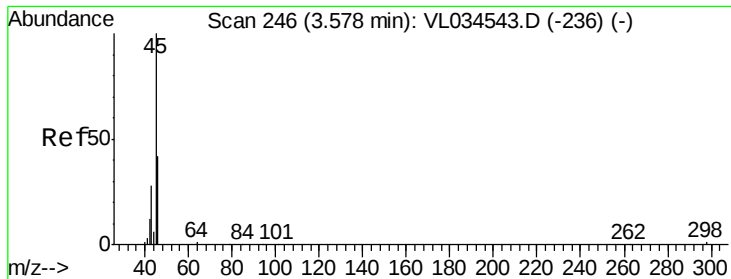
400000

200000

0

Time-->





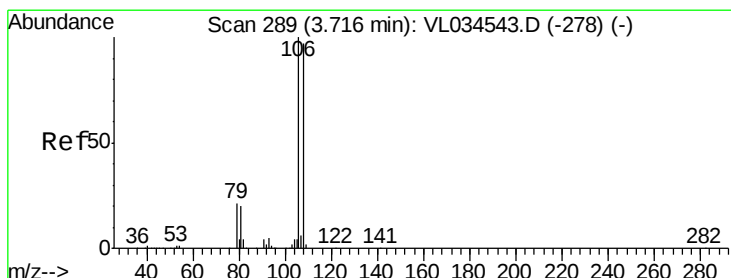
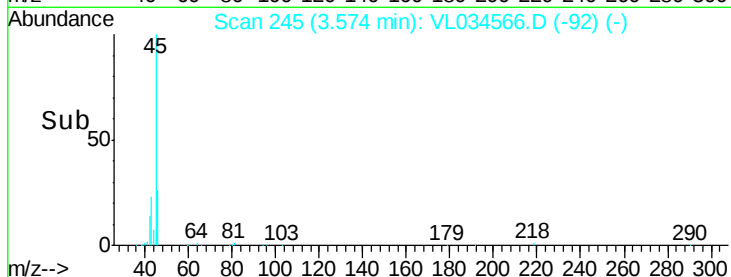
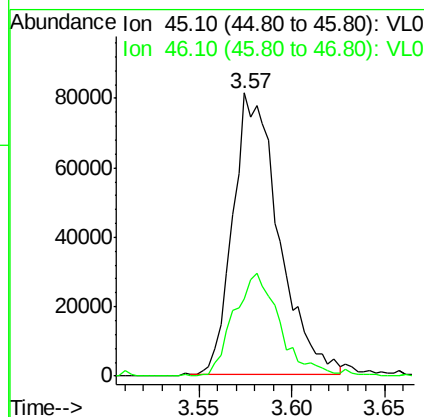
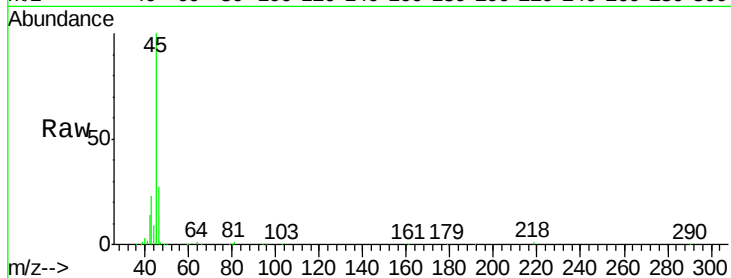
#13
Ethanol
Concen: 9.740 ppbv
RT: 3.57 min Scan# 245
Delta R.T. -0.01 min
Lab File: VL034566.D
Acq: 27 Jan 2020 20:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	45	Resp	139395
Ion Ratio	100	Lower	Upper
46	37.3	14.9	59.7

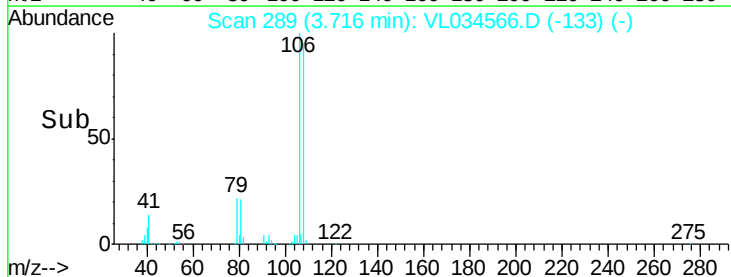
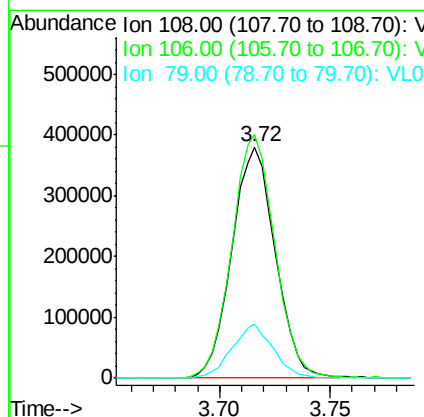
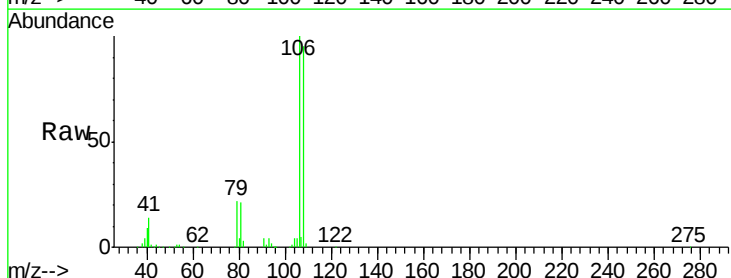
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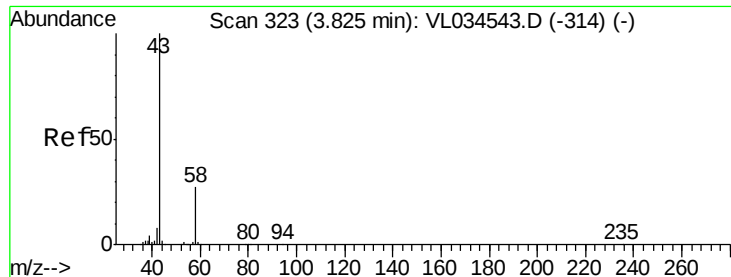
MMDadoda
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#14
Bromoethene
Concen: 9.857 ppbv
RT: 3.72 min Scan# 289
Delta R.T. 0.00 min
Lab File: VL034566.D
Acq: 27 Jan 2020 20:10

Tgt Ion	108	Resp	519632
Ion Ratio	100	Lower	Upper
106	105.1	85.2	127.8
79	22.6	17.4	26.2





#15

Acetone

Concen: 8.370 ppbv

RT: 3.83 min Scan# 323

Delta R.T. -0.00 min

Lab File: VL034566.D

Acq: 27 Jan 2020 20:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1371521

Ion Ratio Lower Upper

43 100

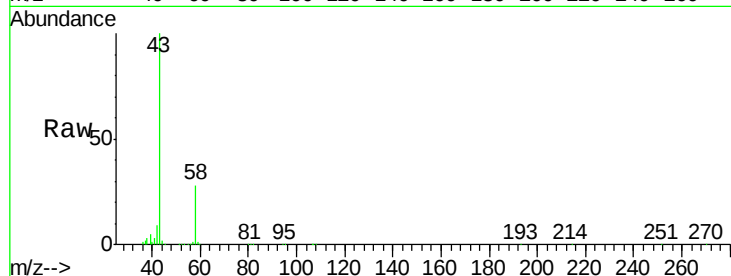
58 26.5 20.4 30.6

Manual Integrations

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.83

1000000

800000

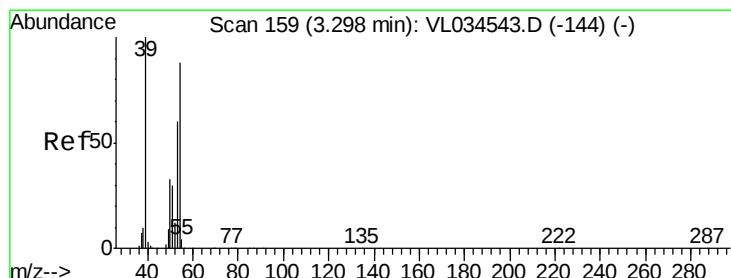
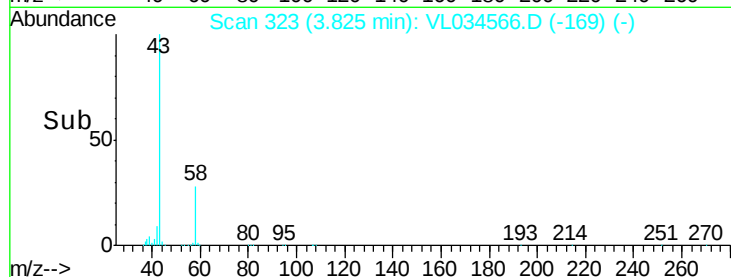
600000

400000

200000

0

Time--> 3.75 3.80 3.85 3.90



#16

1,3-Butadiene

Concen: 9.882 ppbv

RT: 3.30 min Scan# 159

Delta R.T. -0.00 min

Lab File: VL034566.D

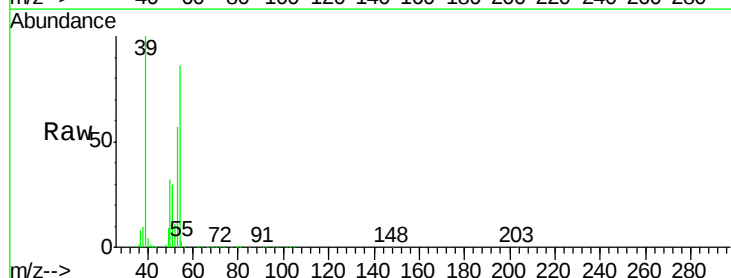
Acq: 27 Jan 2020 20:10

Tgt Ion: 39 Resp: 622838

Ion Ratio Lower Upper

39 100

54 83.8 66.2 99.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.30

500000

400000

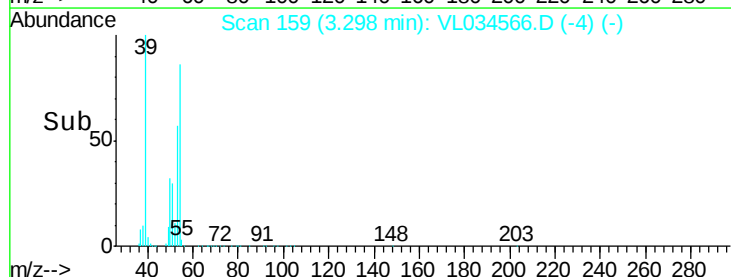
300000

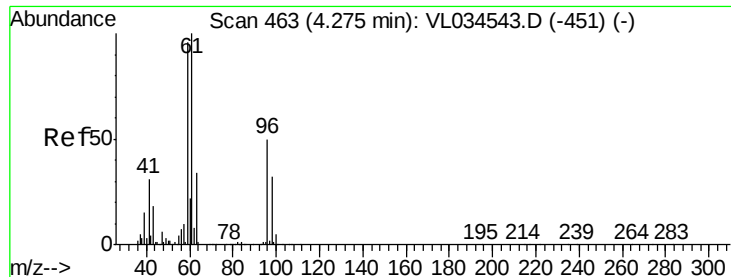
200000

100000

0

Time--> 3.20 3.25 3.30 3.35





#17

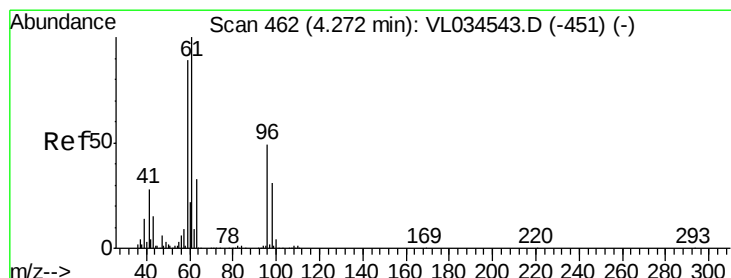
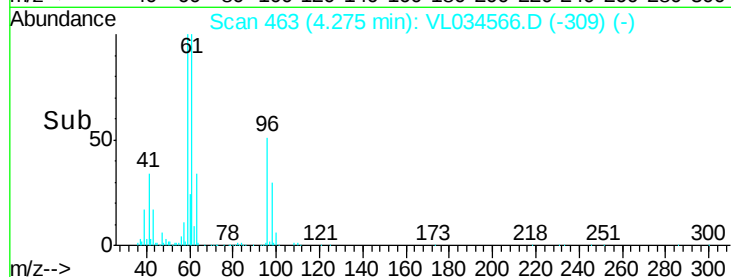
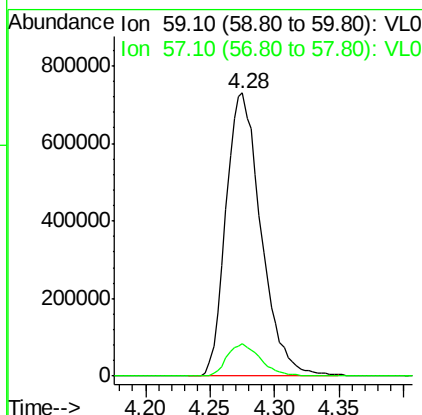
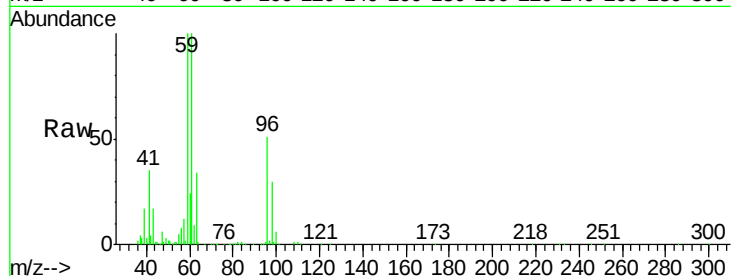
tert-Butyl alcohol
 Concen: 10.533 ppbv
 RT: 4.28 min Scan# 463
 Delta R.T. -0.00 min
 Lab File: VL034566.D
 Acq: 27 Jan 2020 20:10

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 59 Resp: 1382034
 Ion Ratio Lower Upper
 59 100
 57 11.1 8.6 12.8

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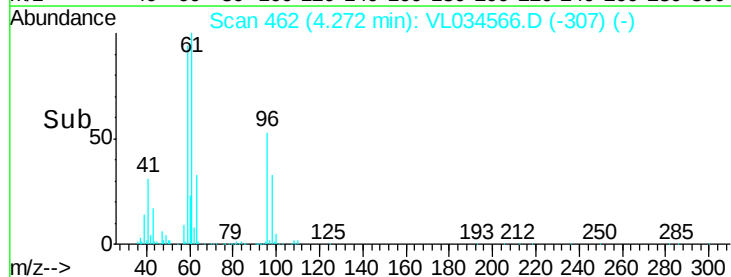
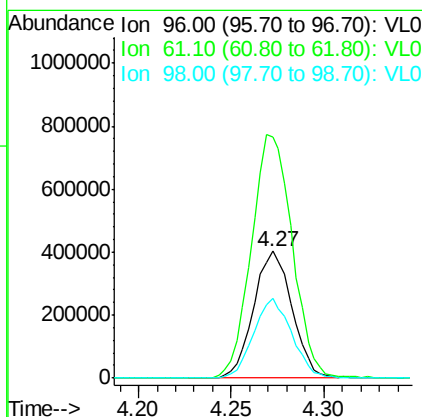
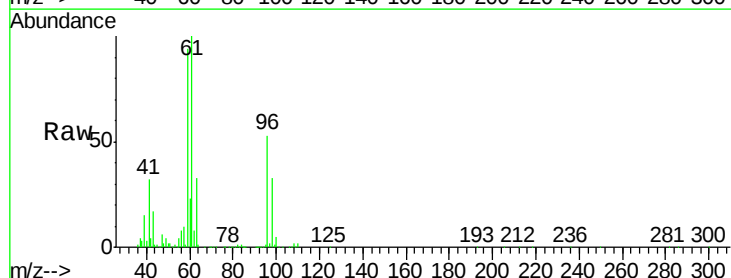
MMDadoda
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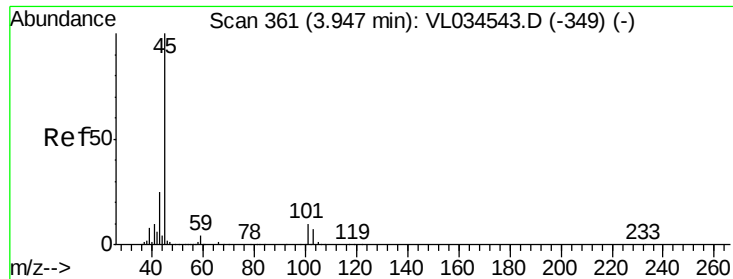


#18

1,1-Dichloroethene
 Concen: 10.236 ppbv
 RT: 4.27 min Scan# 462
 Delta R.T. -0.00 min
 Lab File: VL034566.D
 Acq: 27 Jan 2020 20:10

Tgt Ion: 96 Resp: 581140
 Ion Ratio Lower Upper
 96 100
 61 190.1 165.9 248.9
 98 63.4 51.9 77.9





#19

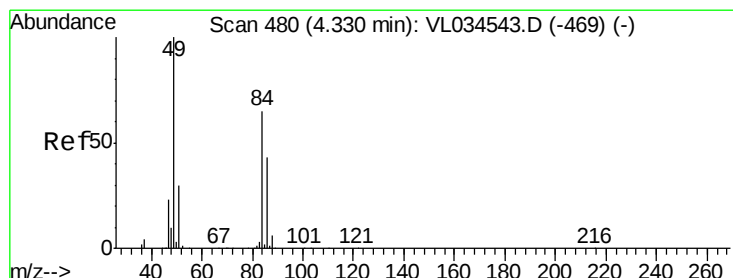
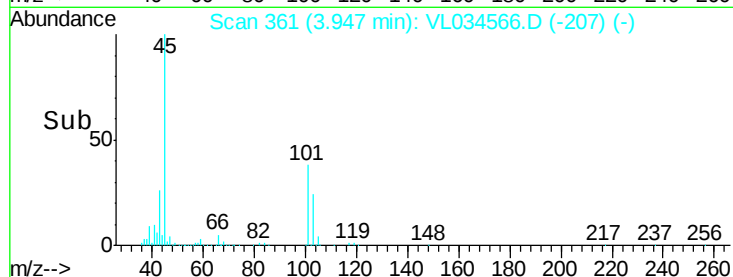
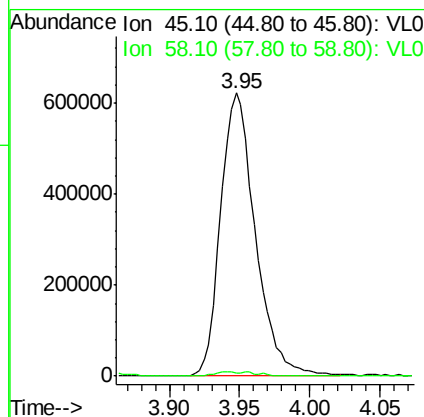
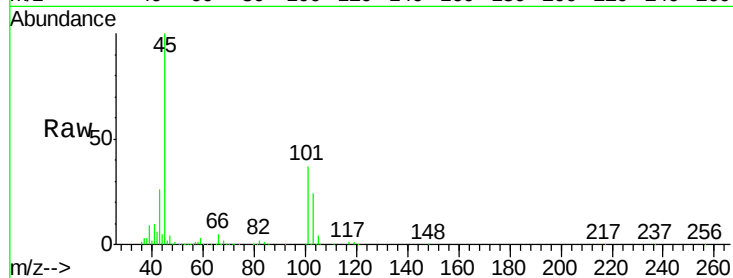
Isopropyl Alcohol
 Concen: 10.050 ppbv
 RT: 3.95 min Scan# 361
 Delta R.T. -0.00 min
 Lab File: VL034566.D
 Acq: 27 Jan 2020 20:10

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 45 Resp: 1066093
 Ion Ratio Lower Upper
 45 100
 58 1.9 1.4 2.0

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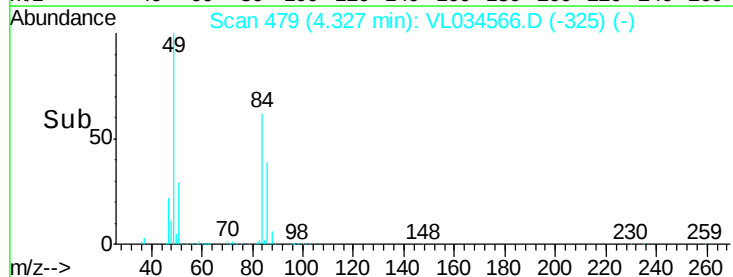
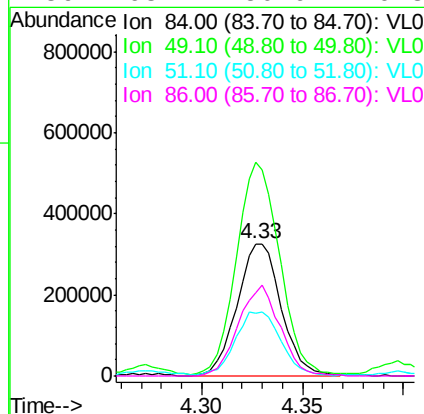
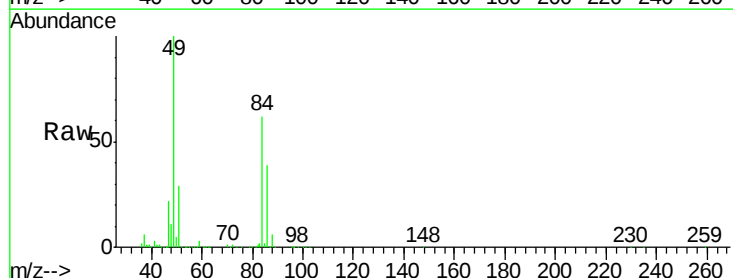
MMDadoda
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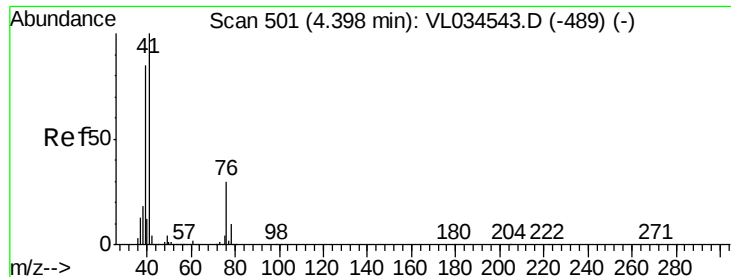


#20

Methylene Chloride
 Concen: 7.682 ppbv
 RT: 4.33 min Scan# 479
 Delta R.T. -0.00 min
 Lab File: VL034566.D
 Acq: 27 Jan 2020 20:10

Tgt Ion: 84 Resp: 495313
 Ion Ratio Lower Upper
 84 100
 49 161.1 124.4 186.6
 51 47.0 37.0 55.6
 86 63.1 50.9 76.3





#21

Allvl Chloride

Concen: 9.951 ppbv

RT: 4.40 min Scan# 501

Delta R.T. -0.00 min

Lab File: VL034566.D

Acq: 27 Jan 2020 20:10

Instrument :

MSVOA_L

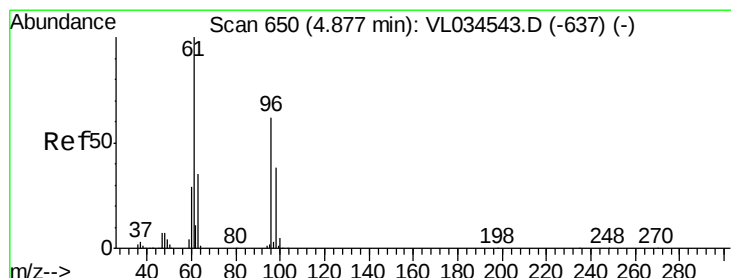
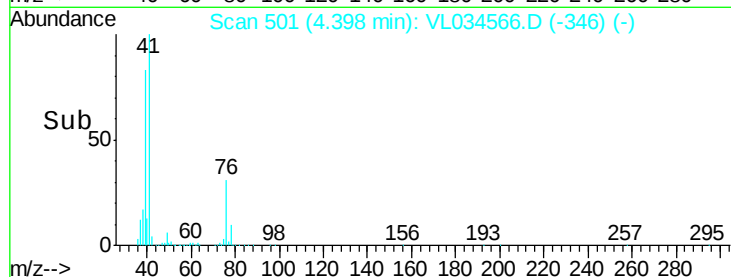
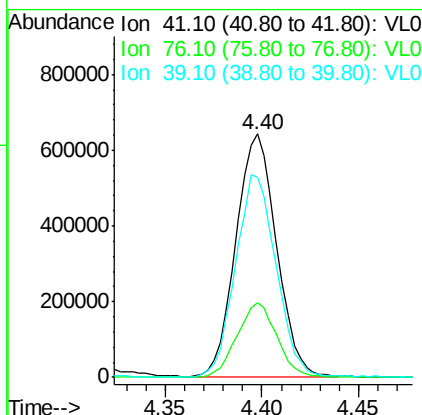
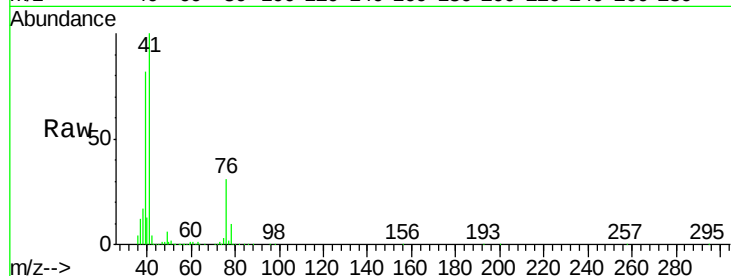
ClientSampleId :

VSTDCCC010EC

Tot Ion:	41	Resp:	937251
Ion Ratio	Lower	Upper	
41	100		
76	30.2	24.2	36.4
39	83.5	65.8	98.6

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 9.637 ppbv

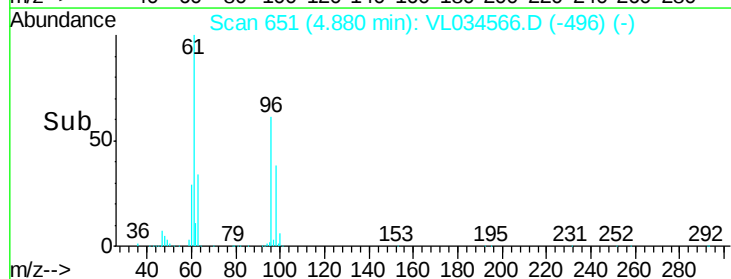
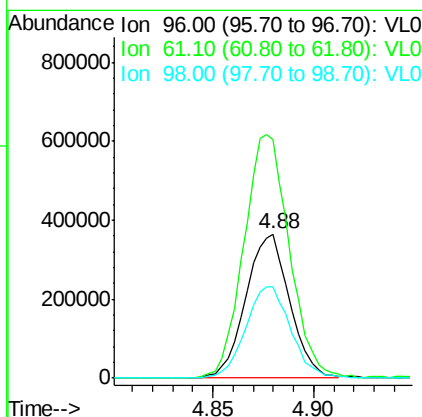
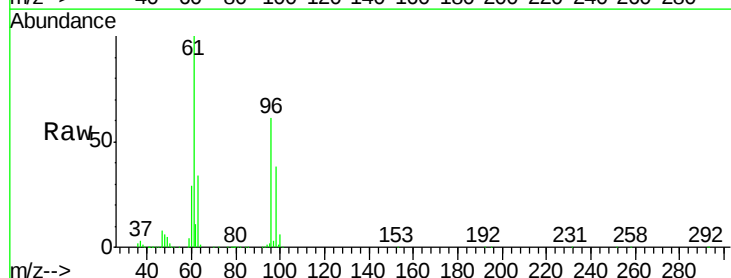
RT: 4.88 min Scan# 651

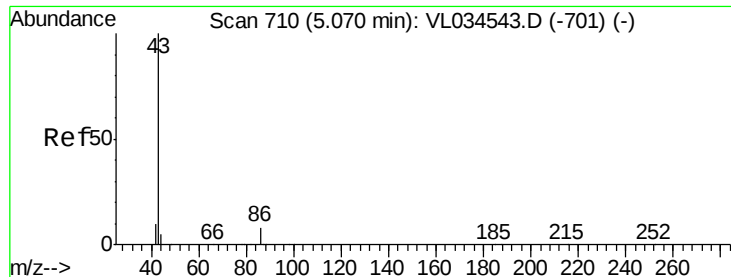
Delta R.T. -0.00 min

Lab File: VL034566.D

Acq: 27 Jan 2020 20:10

Tgt Ion:	96	Resp:	556509
Ion Ratio	Lower	Upper	
96	100		
61	164.8	128.4	192.6
98	62.9	50.6	75.8





#23

Vinyl Acetate

Concen: 9.845 ppbv

RT: 5.07 min Scan# 709

Delta R.T. -0.00 min

Lab File: VL034566.D

Acq: 27 Jan 2020 20:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1862524

Ion Ratio Lower Upper

43 100

86 7.7 5.4 8.2

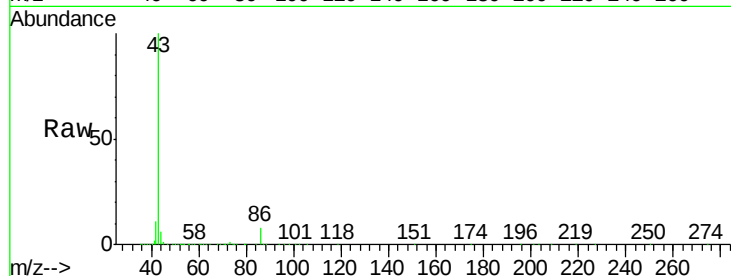
42 11.1 8.9 13.3

44 5.7 5.0 7.4

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1/28/2020 2:03:13 PM

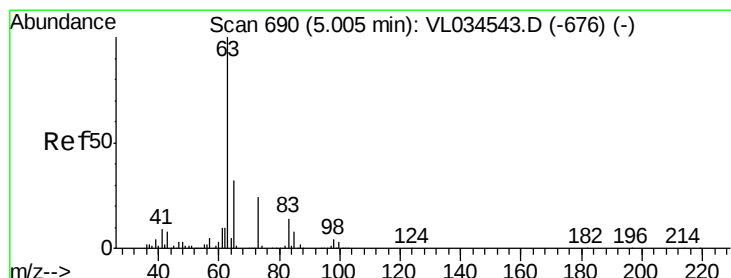
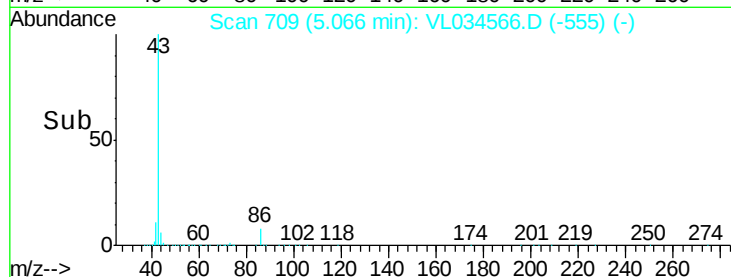
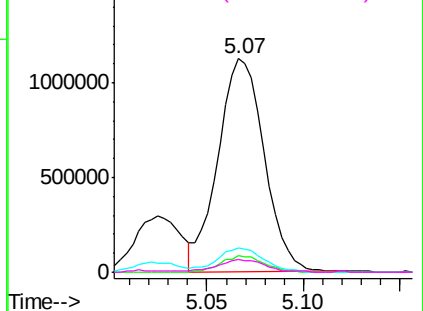


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.274 ppbv

RT: 5.01 min Scan# 690

Delta R.T. -0.00 min

Lab File: VL034566.D

Acq: 27 Jan 2020 20:10

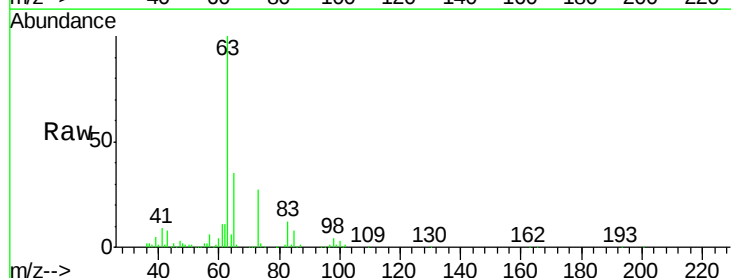
Tgt Ion: 63 Resp: 1409525

Ion Ratio Lower Upper

63 100

98 4.3 2.1 6.3

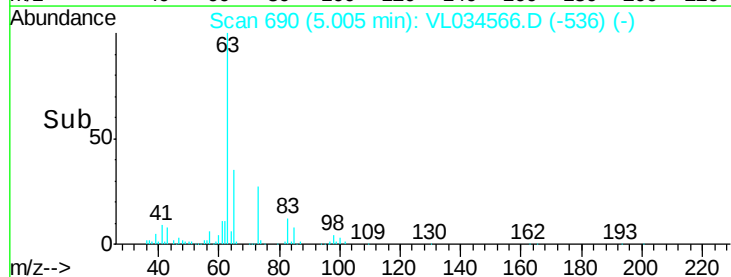
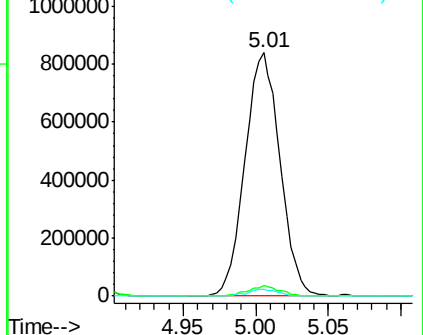
100 3.0 1.1 3.3

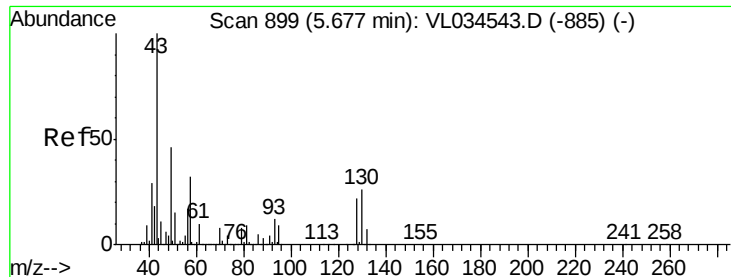


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





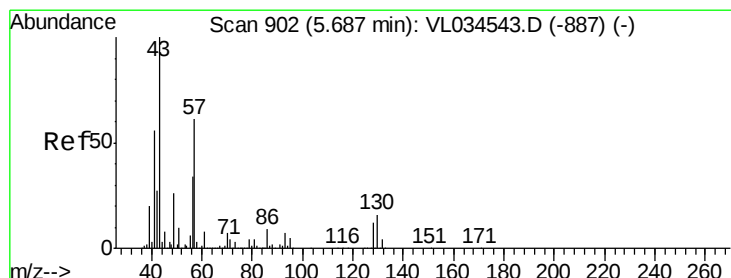
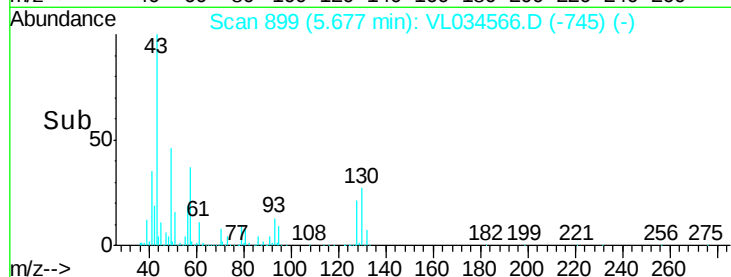
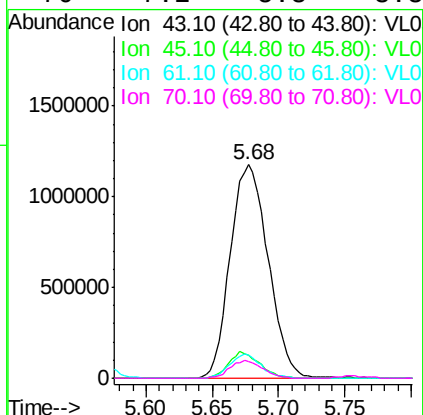
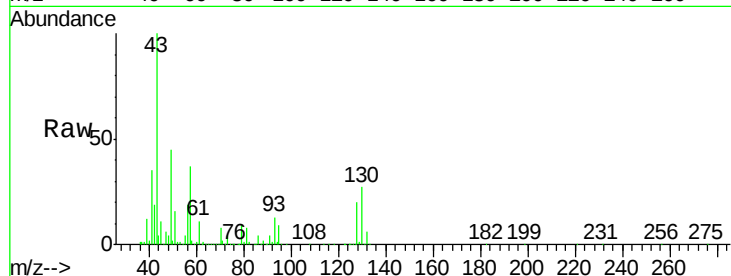
#25
Ethyl Acetate
Concen: 9.118 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.00 min
Lab File: VL034566.D
Acq: 27 Jan 2020 20:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:	43	Resp:	2333321
Ion	Ratio	Lower	Upper
43	100		
45	10.3	8.3	12.5
61	9.7	7.8	11.6
70	7.2	5.8	8.8

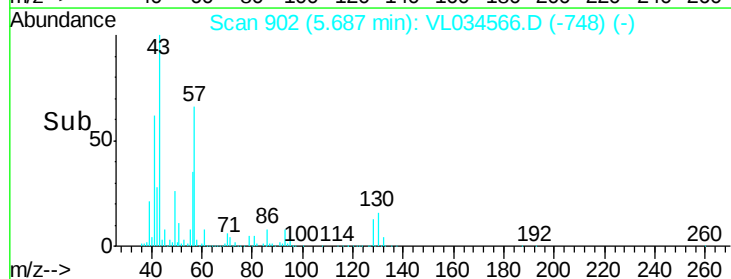
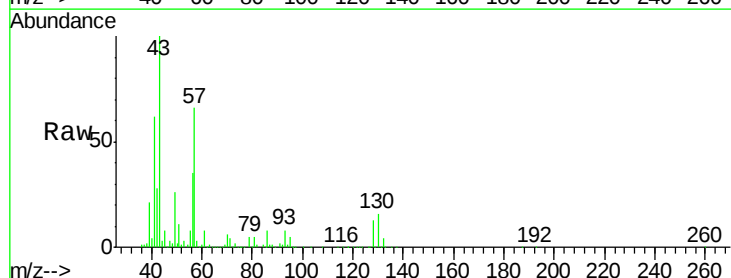
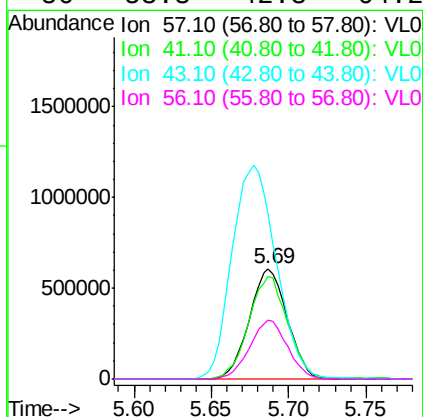
Manual Integrations
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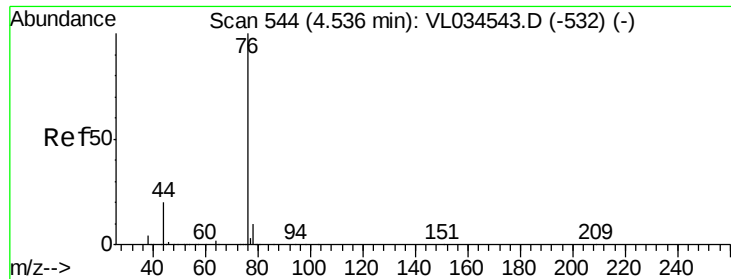
MMDadoda
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#26
Hexane
Concen: 9.596 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.00 min
Lab File: VL034566.D
Acq: 27 Jan 2020 20:10

Tgt Ion:	57	Resp:	1034708
Ion	Ratio	Lower	Upper
57	100		
41	96.0	75.3	112.9
43	226.2	189.4	284.2
56	53.3	42.8	64.2





#27

Carbon Disulfide

Concen: 10.584 ppbv

RT: 4.54 min Scan# 544

Delta R.T. -0.00 min

Lab File: VL034566.D

Acq: 27 Jan 2020 20:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1442551

Ion Ratio Lower Upper

76 100

44 20.2 16.6 25.0

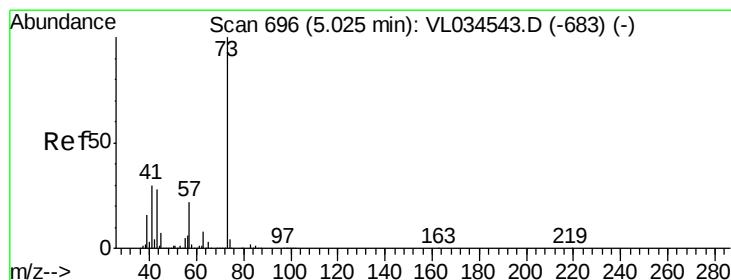
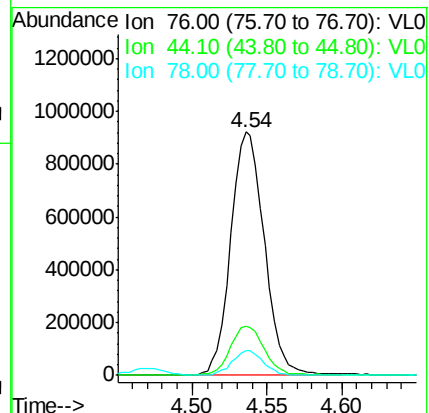
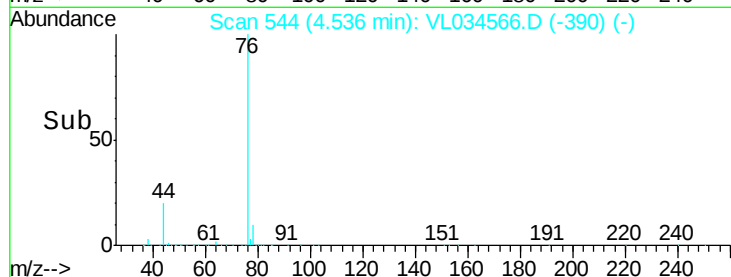
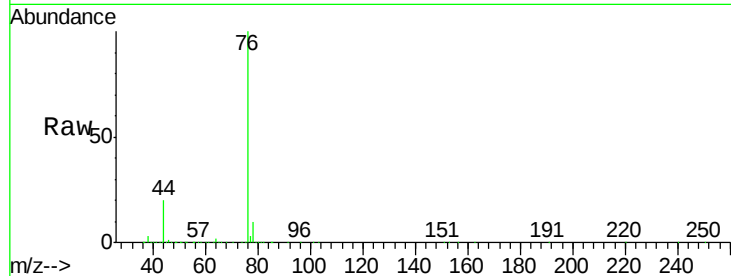
78 9.8 7.4 11.0

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#28

Methyl tert-Butyl Ether

Concen: 9.750 ppbv

RT: 5.02 min Scan# 696

Delta R.T. -0.00 min

Lab File: VL034566.D

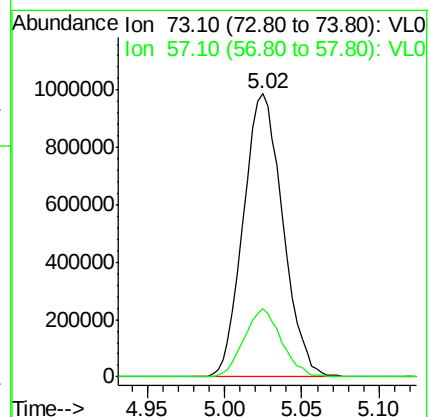
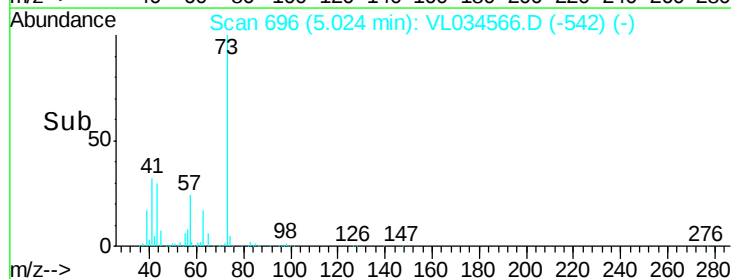
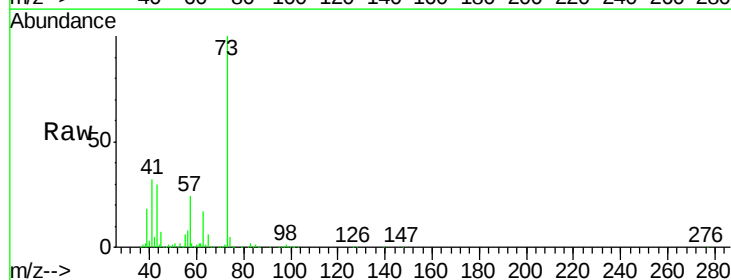
Acq: 27 Jan 2020 20:10

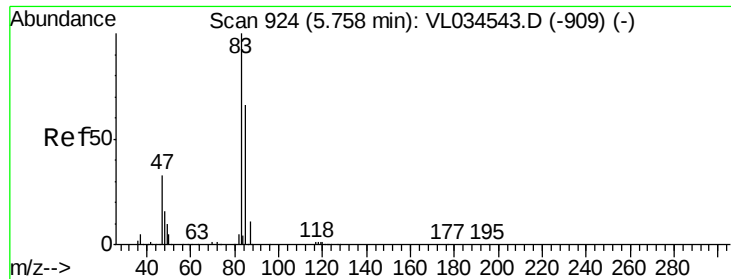
Tgt Ion: 73 Resp: 1755972

Ion Ratio Lower Upper

73 100

57 23.0 18.2 27.2





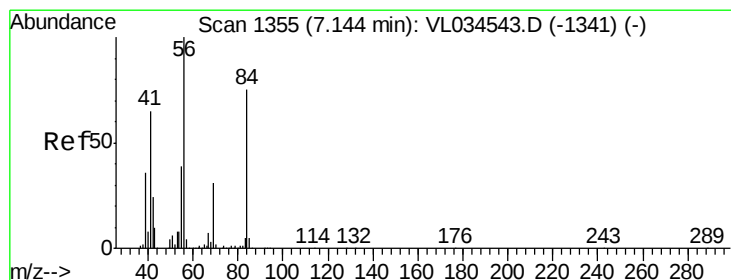
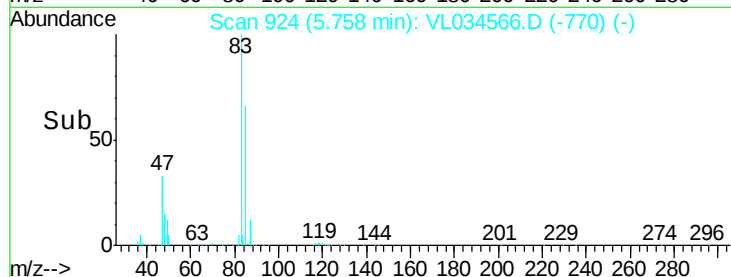
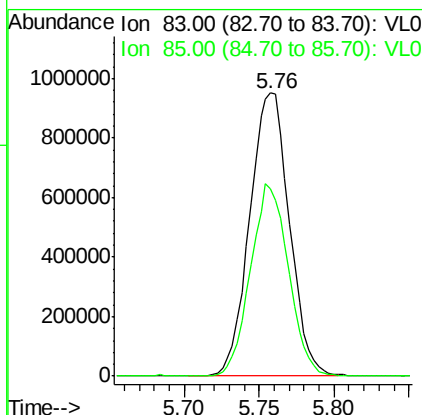
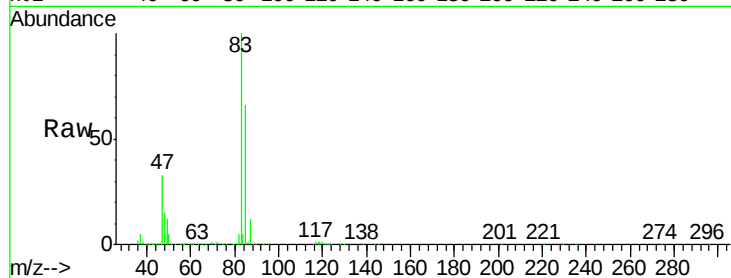
#29
Chloroform
Concen: 9.408 ppbv
RT: 5.76 min Scan# 924
Delta R.T. -0.00 min
Lab File: VL034566.D
Acq: 27 Jan 2020 20:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1755343
Ion Ratio Lower Upper
83 100
85 66.2 51.0 76.6

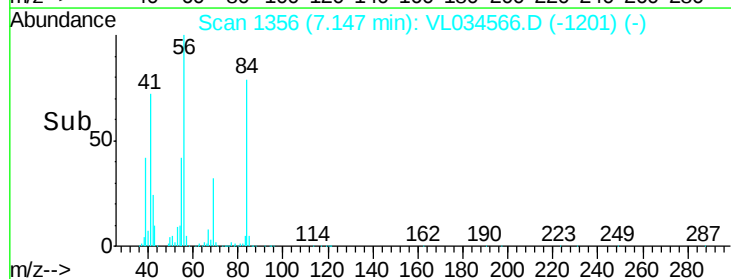
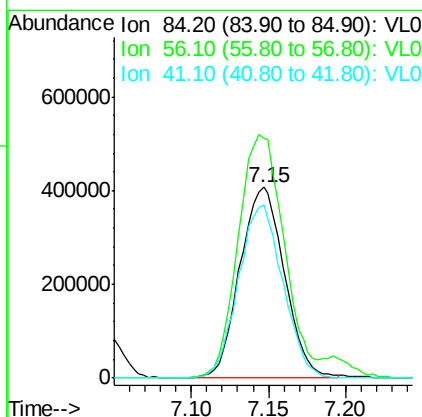
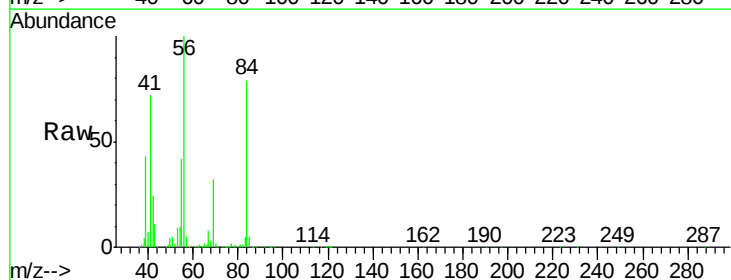
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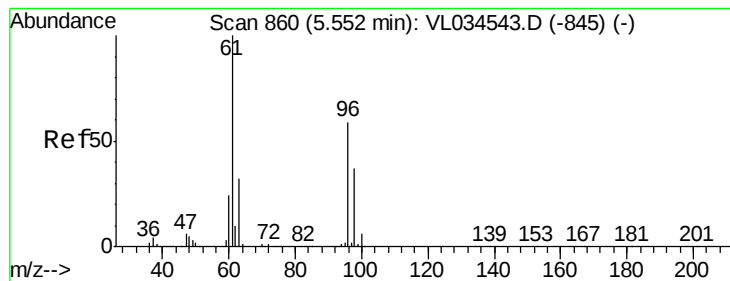
MMDadoda
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#30
Cyclohexane
Concen: 10.159 ppbv
RT: 7.15 min Scan# 1356
Delta R.T. -0.00 min
Lab File: VL034566.D
Acq: 27 Jan 2020 20:10

Tgt Ion: 84 Resp: 814208
Ion Ratio Lower Upper
84 100
56 139.6 112.7 169.1
41 90.9 73.0 109.4





#31

cis-1,2-Dichloroethene

Concen: 9.929 ppbv

RT: 5.55 min Scan# 860

Delta R.T. -0.00 min

Lab File: VL034566.D

Acq: 27 Jan 2020 20:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 61 Resp: 1091028

Ion Ratio Lower Upper

61 100

96 55.4 47.1 70.7

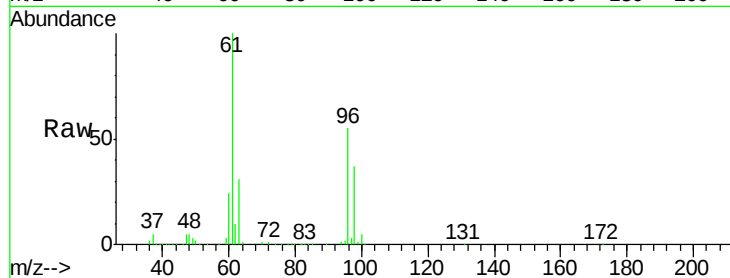
98 36.5 31.0 46.6

Manual Integrations

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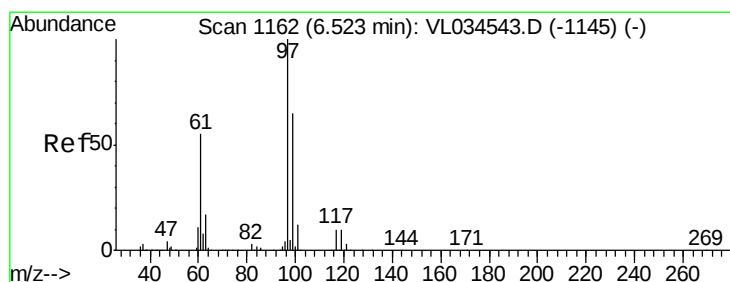
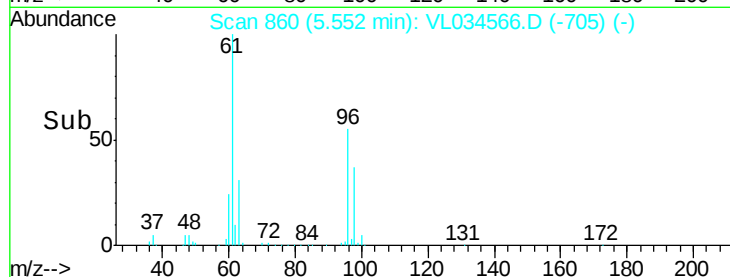
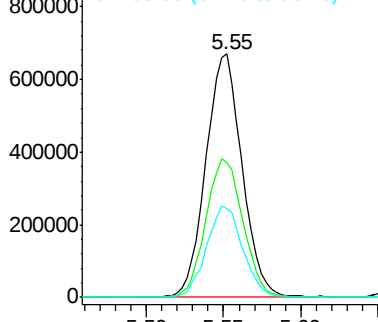
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Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 9.512 ppbv

RT: 6.52 min Scan# 1161

Delta R.T. -0.00 min

Lab File: VL034566.D

Acq: 27 Jan 2020 20:10

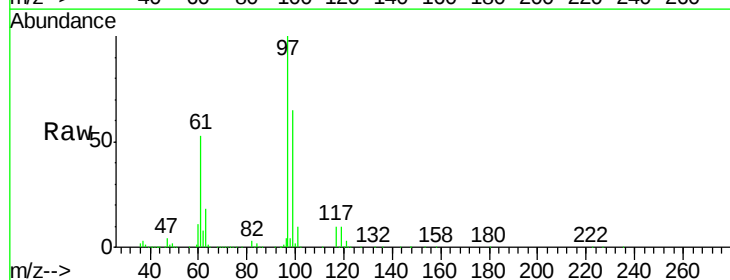
Tgt Ion: 97 Resp: 1842269

Ion Ratio Lower Upper

97 100

99 65.0 51.7 77.5

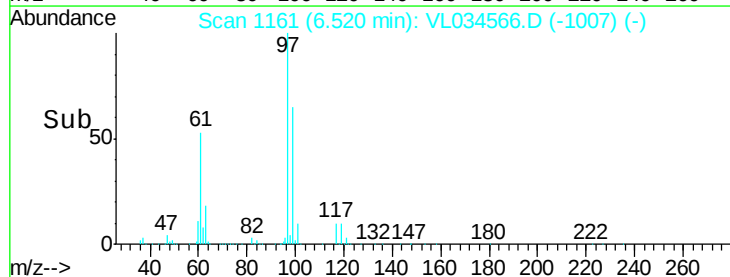
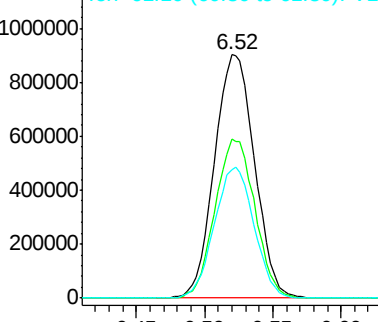
61 53.3 42.9 64.3

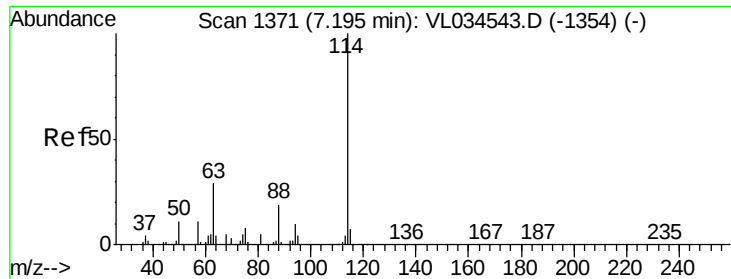


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0





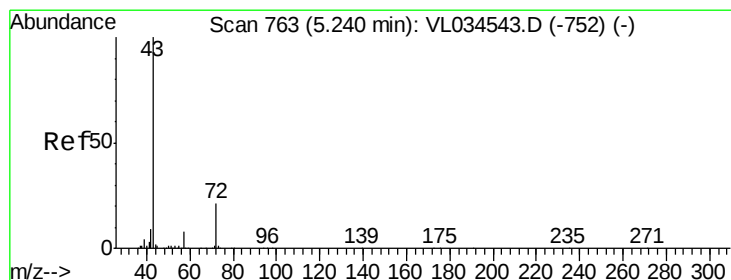
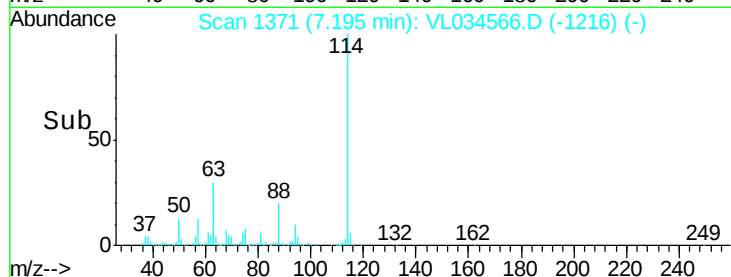
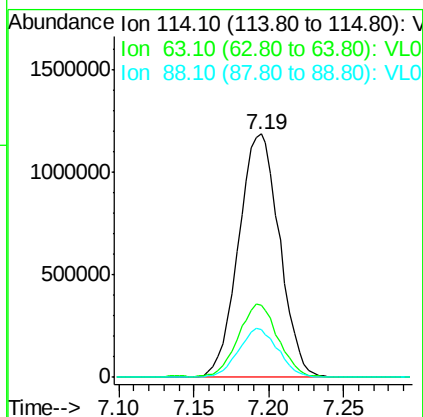
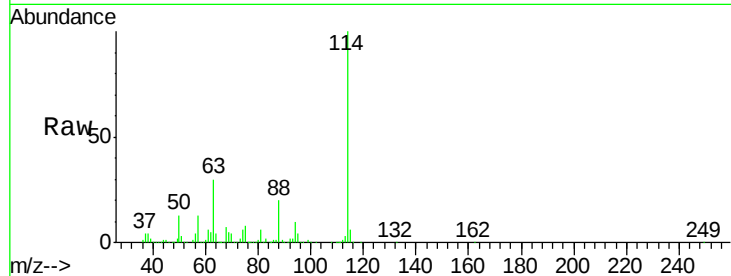
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1371
 Delta R.T. -0.00 min
 Lab File: VL034566.D
 Acq: 27 Jan 2020 20:10

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:114 Resp: 2261076
 Ion Ratio Lower Upper
 114 100
 63 29.9 24.1 36.1
 88 19.4 15.7 23.5

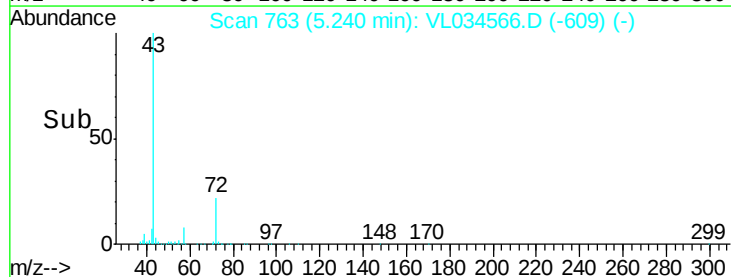
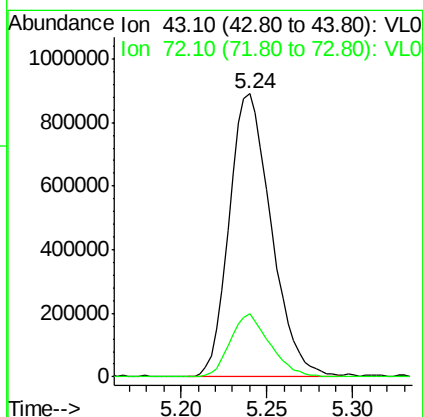
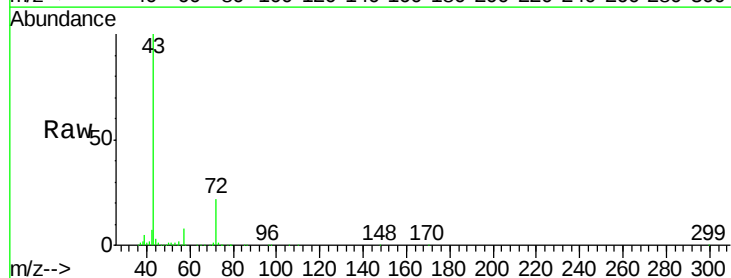
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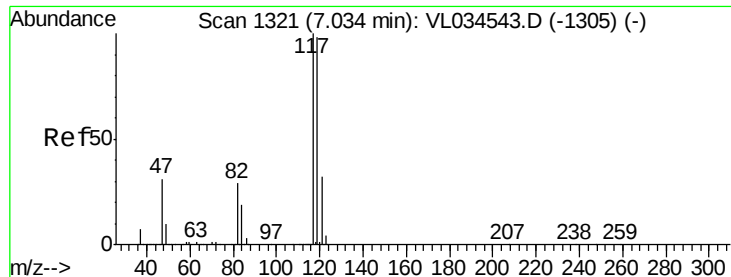
MMDadoda
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#34
 2-Butanone
 Concen: 9.382 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. -0.00 min
 Lab File: VL034566.D
 Acq: 27 Jan 2020 20:10

Tgt Ion: 43 Resp: 1515991
 Ion Ratio Lower Upper
 43 100
 72 21.3 17.0 25.4





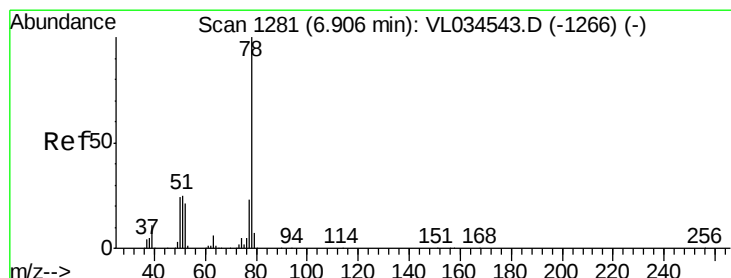
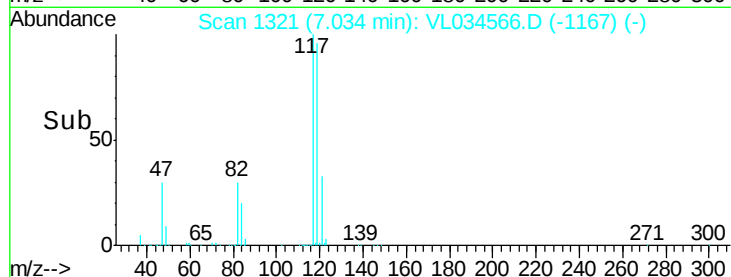
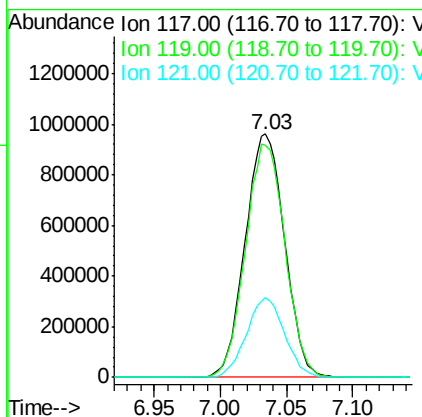
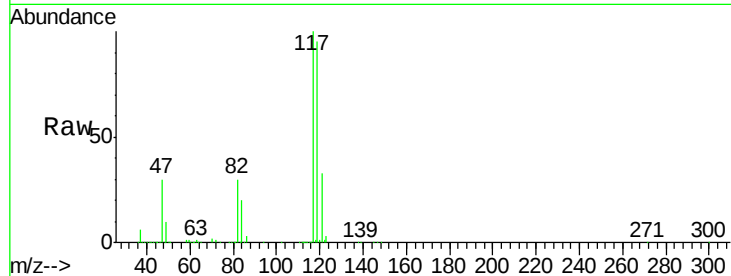
#35
Carbon Tetrachloride
Concen: 9.680 ppbv
RT: 7.03 min Scan# 1321
Delta R.T. -0.00 min
Lab File: VL034566.D
Acq: 27 Jan 2020 20:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
117	100			
119	95.4	78.7	118.1	
121	32.8	25.9	38.9	

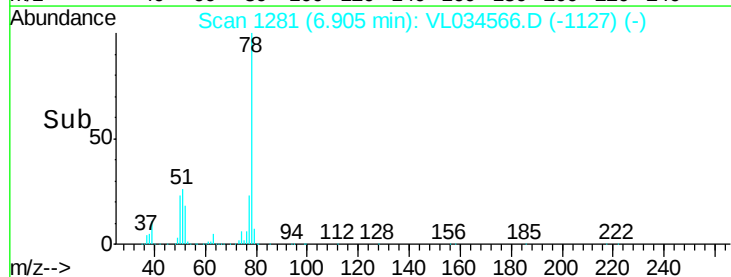
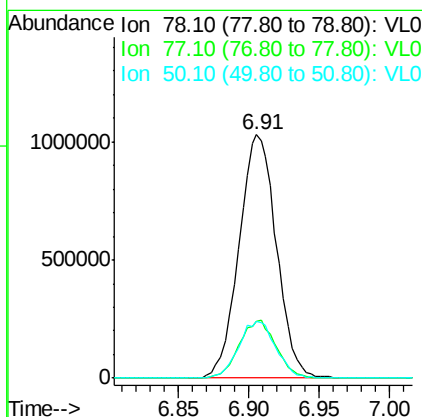
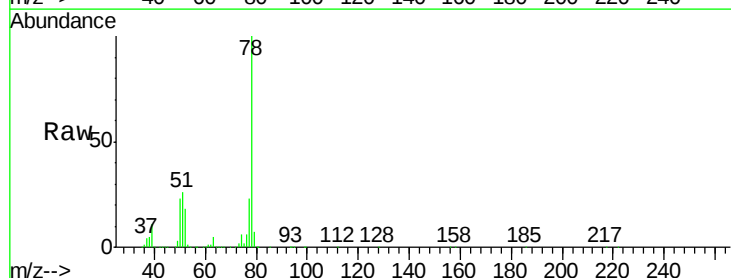
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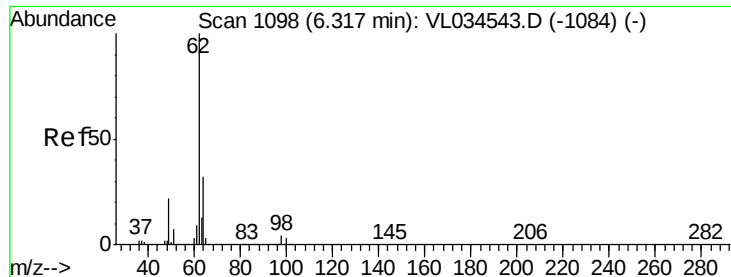
MMDadoda
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#36
Benzene
Concen: 9.678 ppbv
RT: 6.91 min Scan# 1281
Delta R.T. -0.00 min
Lab File: VL034566.D
Acq: 27 Jan 2020 20:10

Tgt Ion	Ion	Ratio	Lower	Upper
78	100			
77	23.5	18.6	28.0	
50	23.5	18.8	28.2	





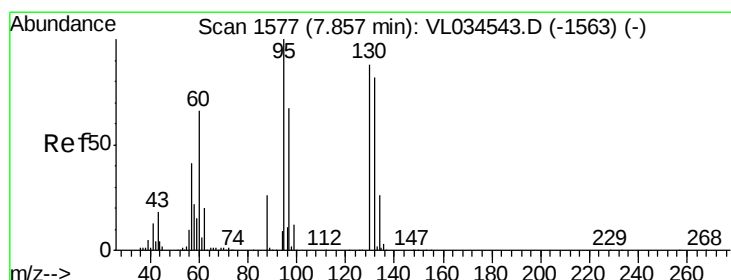
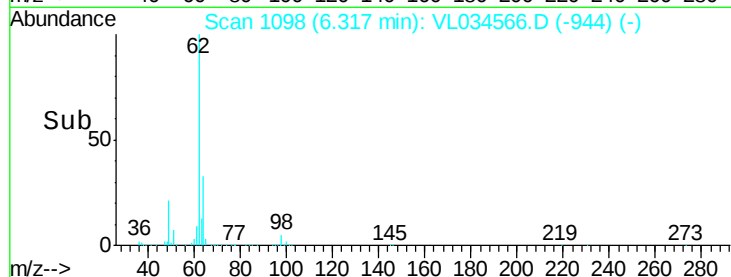
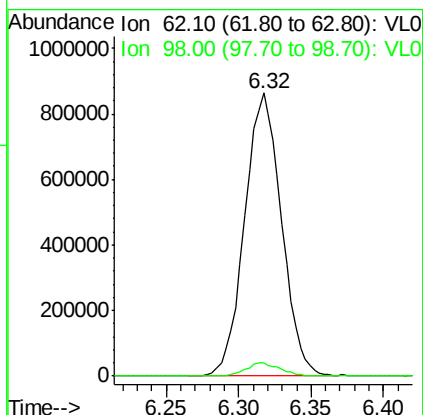
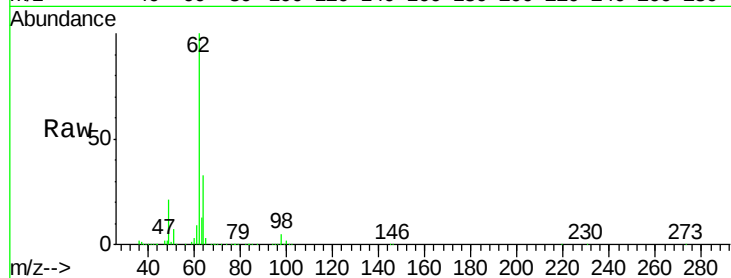
#37
 1,2-Dichloroethane
 Concen: 9.555 ppbv
 RT: 6.32 min Scan# 1098
 Delta R.T. -0.00 min
 Lab File: VL034566.D
 Acq: 27 Jan 2020 20:10

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
62	100		
98	4.4	3.8	5.6

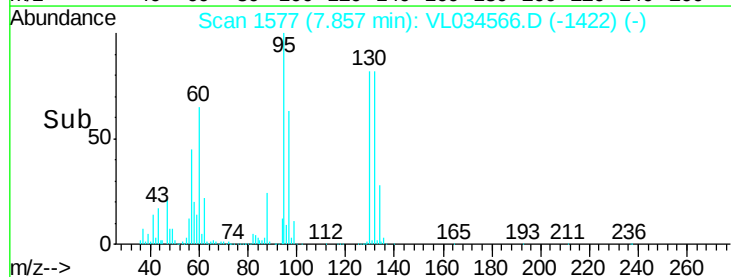
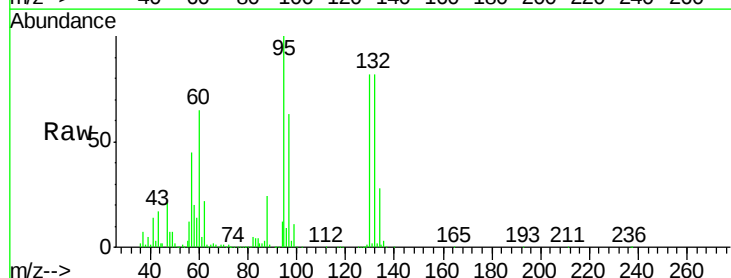
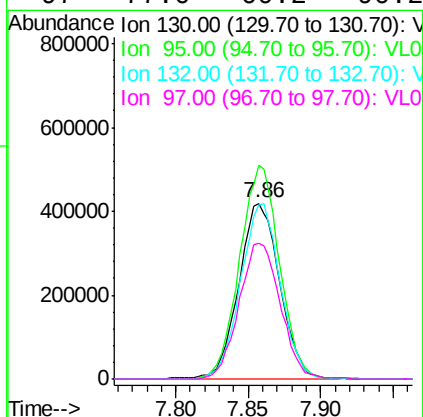
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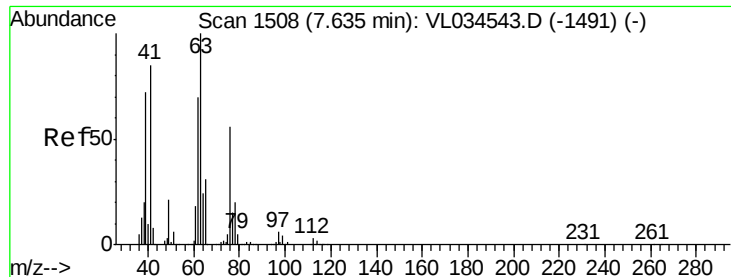
MMDadoda
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#38
 Trichloroethene
 Concen: 10.298 ppbv
 RT: 7.86 min Scan# 1577
 Delta R.T. -0.00 min
 Lab File: VL034566.D
 Acq: 27 Jan 2020 20:10

Tgt Ion	Ratio	Lower	Upper
130	100		
95	121.5	94.2	141.2
132	99.1	76.1	114.1
97	77.0	60.2	90.2





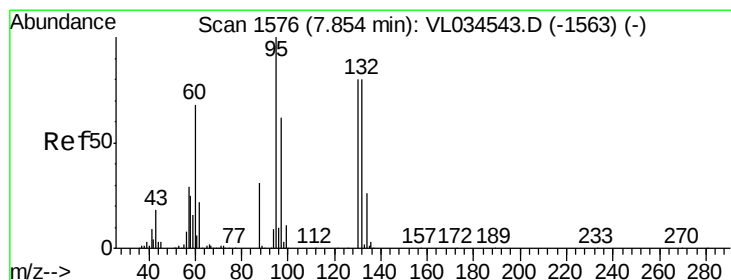
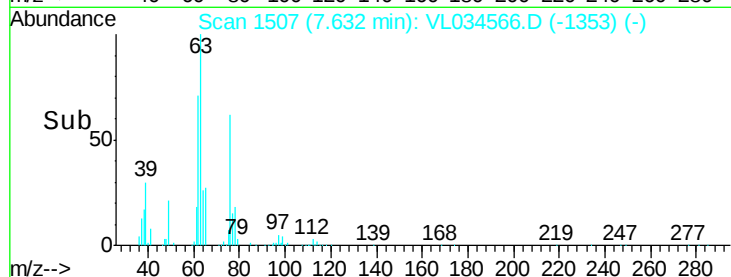
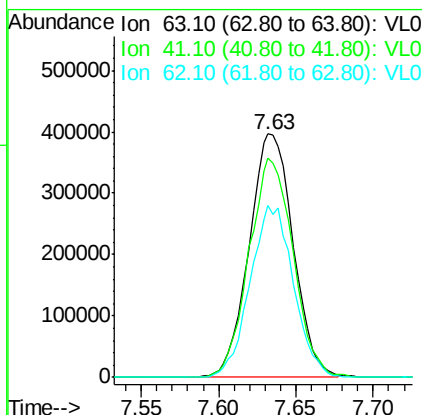
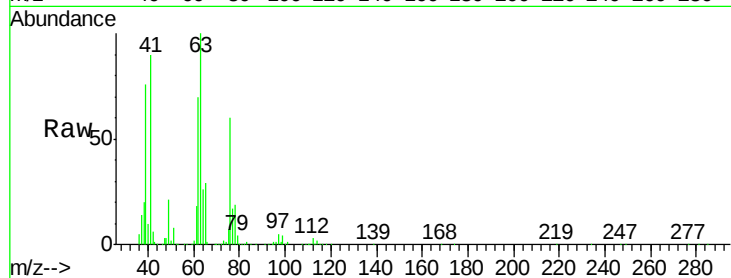
#39
 1,2-Dichloropropane
 Concen: 9.673 ppbv
 RT: 7.63 min Scan# 1507
 Delta R.T. -0.00 min
 Lab File: VL034566.D
 Acq: 27 Jan 2020 20:10

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	89.9	66.1	99.1
62	70.4	54.9	82.3

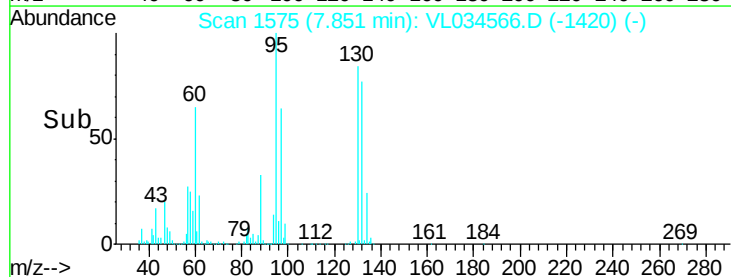
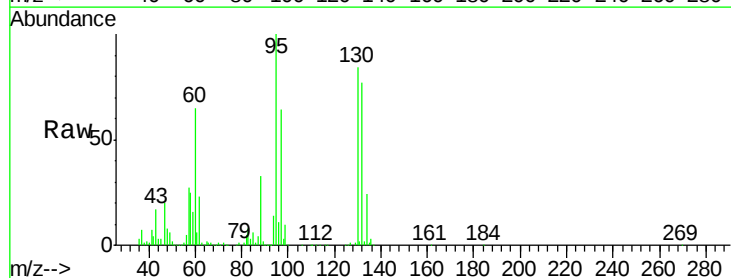
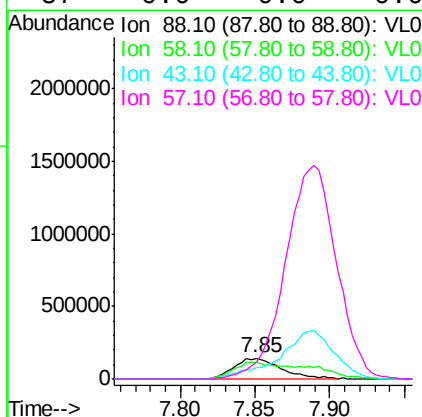
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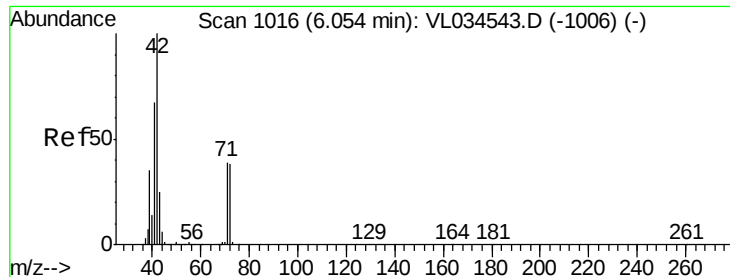
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#40
 1,4-Dioxane
 Concen: 9.558 ppbv
 RT: 7.85 min Scan# 1575
 Delta R.T. -0.00 min
 Lab File: VL034566.D
 Acq: 27 Jan 2020 20:10

Tgt Ion	Ratio	Lower	Upper
88	100		
58	133.2	107.9	161.9
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 9.925 ppbv

RT: 6.05 min Scan# 1015

Delta R.T. -0.00 min

Lab File: VL034566.D

Acq: 27 Jan 2020 20:10

Instrument :

MSVOA_L

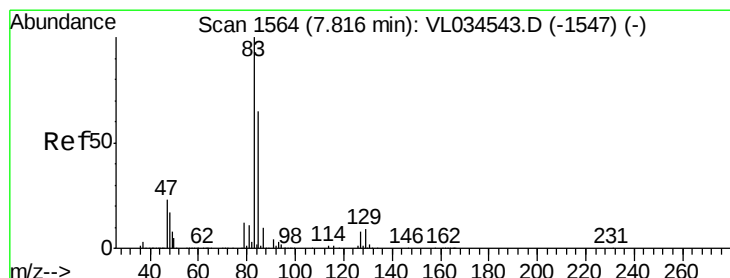
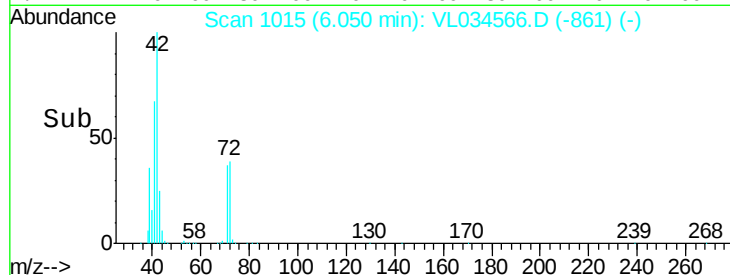
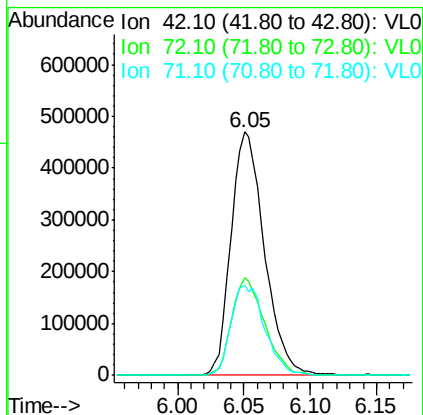
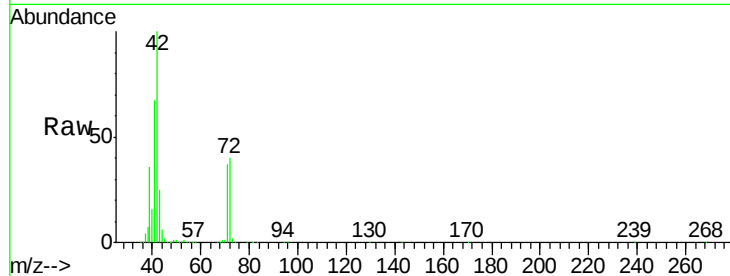
ClientSampleId :

VSTDCCC010EC

Tot Ion:	42	Resp:	822683
Ion Ratio		Lower	Upper
42	100		
72	39.6	30.9	46.3
71	37.7	28.9	43.3

Manual Integrations
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#42

Bromodichloromethane

Concen: 9.967 ppbv

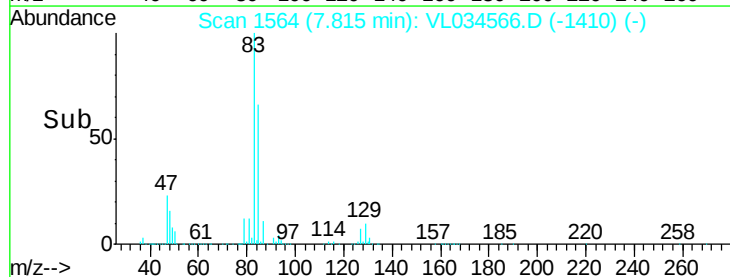
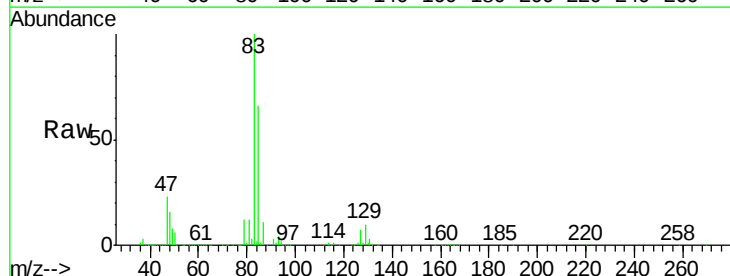
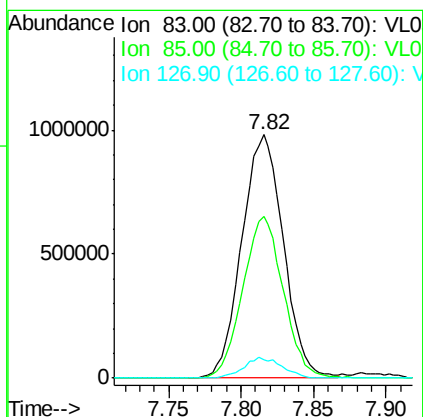
RT: 7.82 min Scan# 1564

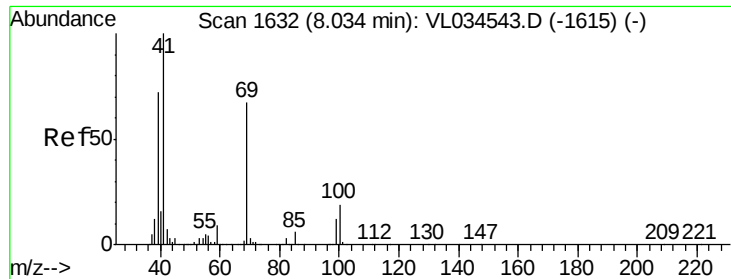
Delta R.T. -0.00 min

Lab File: VL034566.D

Acq: 27 Jan 2020 20:10

Tgt Ion:	83	Resp:	1962992
Ion Ratio		Lower	Upper
83	100		
85	66.4	49.4	74.2
127	7.4	6.2	9.4





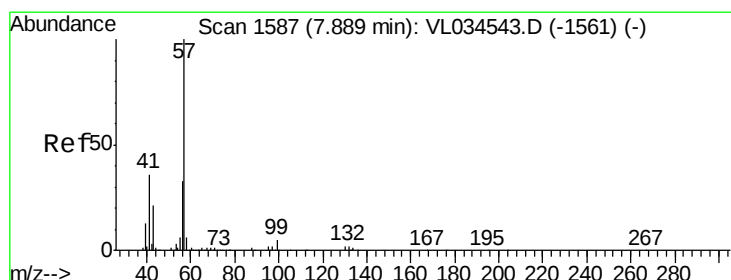
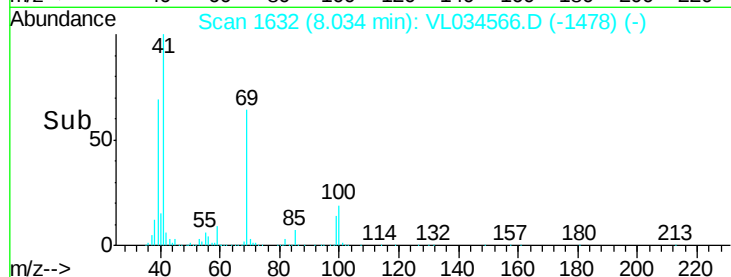
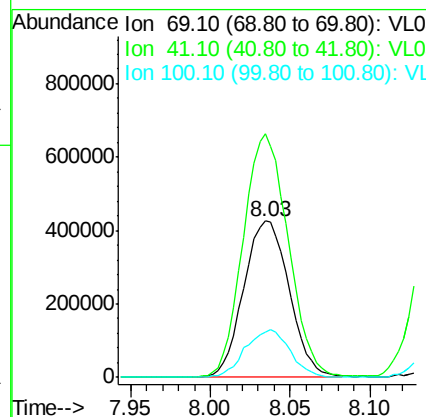
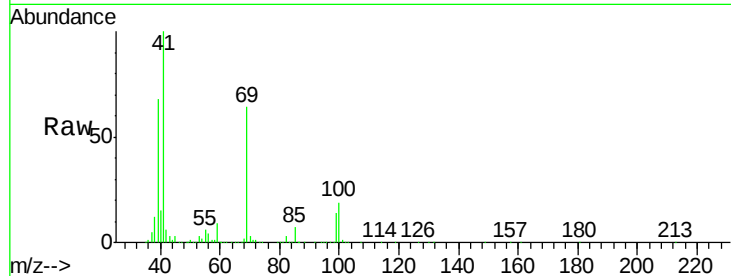
#43
Methvl Methacrylate
Concen: 10.304 ppbv
RT: 8.03 min Scan# 1632
Delta R.T. -0.00 min
Lab File: VL034566.D
Acq: 27 Jan 2020 20:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	153.8	124.0	186.0	
100	30.0	23.1	34.7	

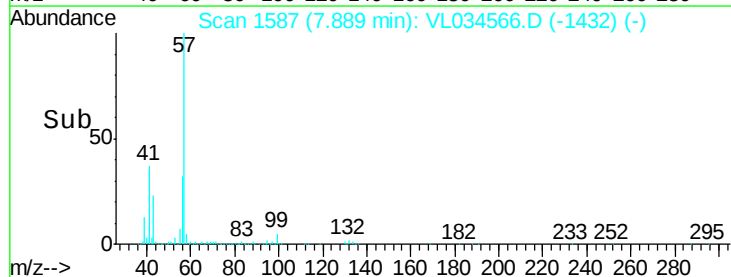
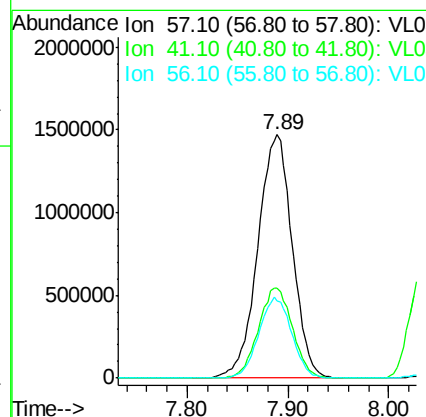
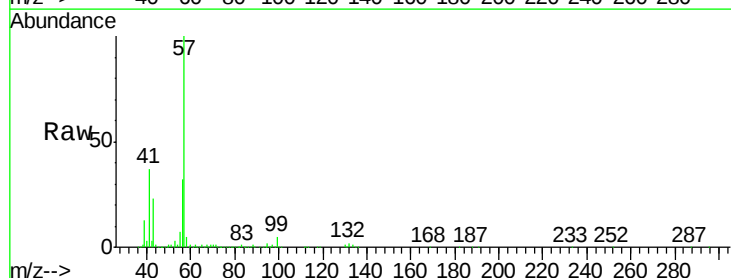
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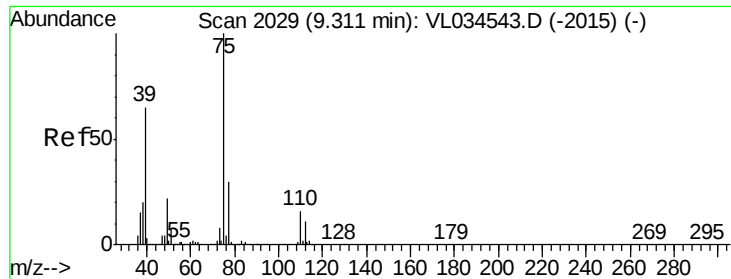
MMDadoda
1/28/2020 2:03:13 PM



#44
2,2,4-Trimethylpentane
Concen: 9.557 ppbv
RT: 7.89 min Scan# 1587
Delta R.T. -0.00 min
Lab File: VL034566.D
Acq: 27 Jan 2020 20:10

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	36.5	29.0	43.4	
56	31.6	24.9	37.3	





#45

t-1,3-Dichloropropene

Concen: 10.786 ppbv

RT: 9.31 min Scan# 2028

Delta R.T. -0.00 min

Lab File: VL034566.D

Acq: 27 Jan 2020 20:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 75 Resp: 1117056

Ion Ratio Lower Upper

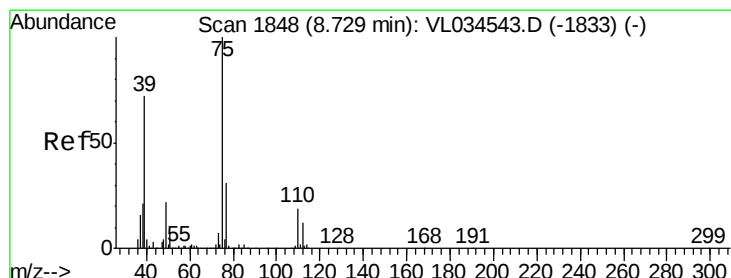
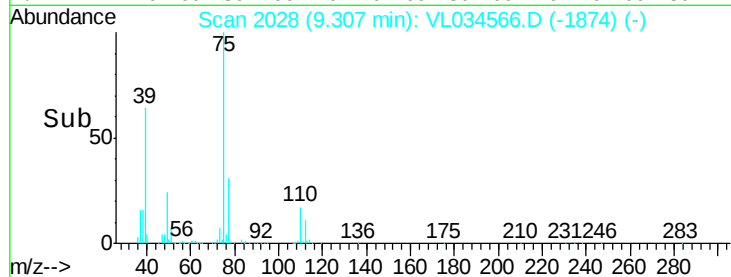
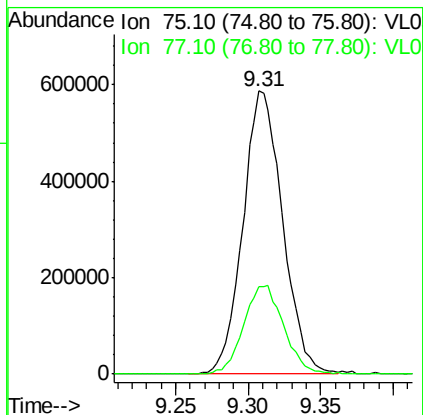
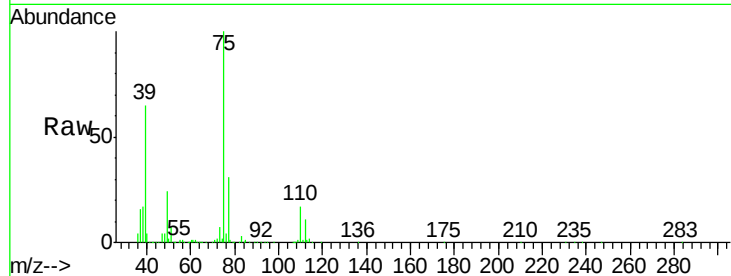
75 100

77 31.0 24.2 36.2

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#46

cis-1,3-Dichloropropene

Concen: 10.457 ppbv

RT: 8.73 min Scan# 1849

Delta R.T. -0.00 min

Lab File: VL034566.D

Acq: 27 Jan 2020 20:10

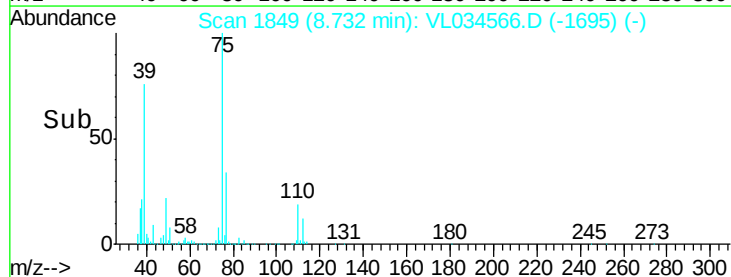
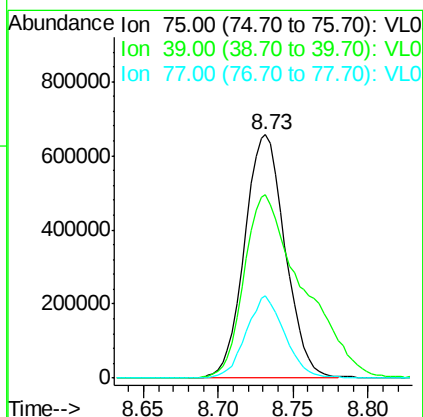
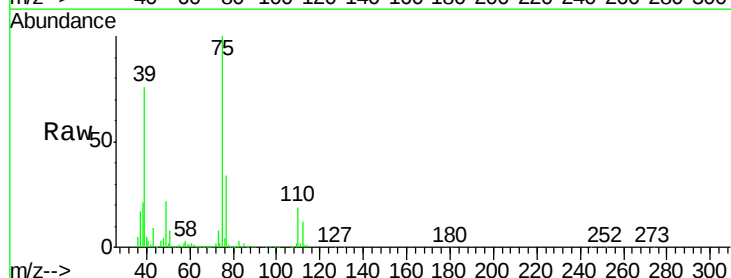
Tgt Ion: 75 Resp: 1237976

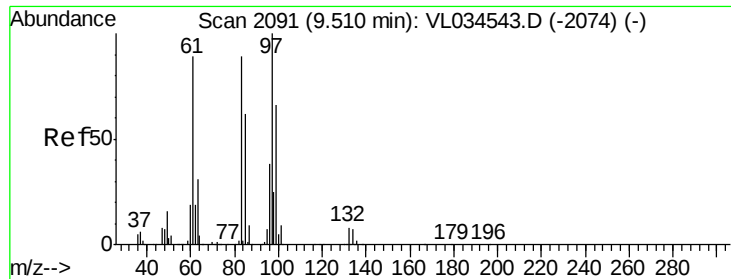
Ion Ratio Lower Upper

75 100

39 75.6 60.5 90.7

77 33.9 24.8 37.2





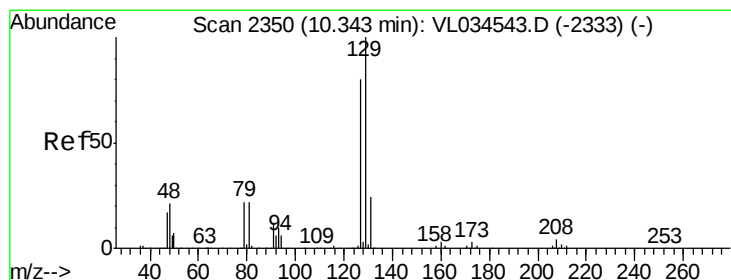
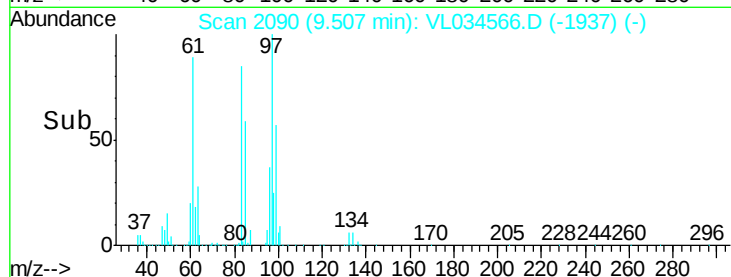
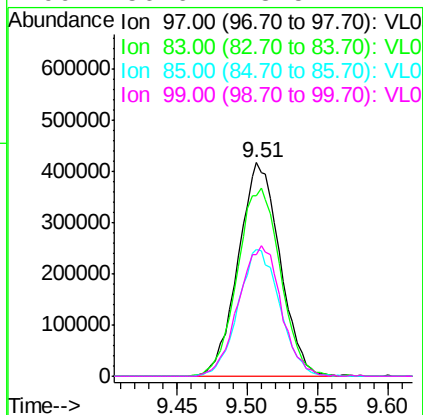
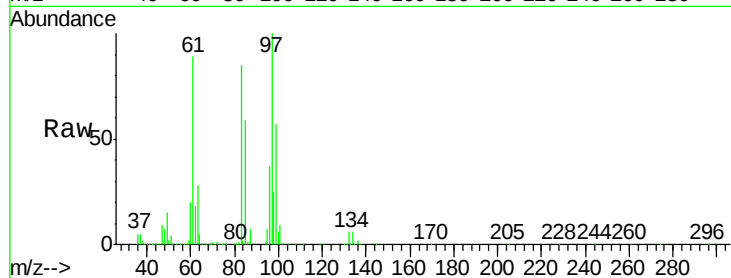
#47
 1,1,2-Trichloroethane
 Concen: 9.637 ppbv
 RT: 9.51 min Scan# 2090
 Delta R.T. -0.01 min
 Lab File: VL034566.D
 Acq: 27 Jan 2020 20:10

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	97	Resp	861017
Ion	Ratio	Lower	Upper
97	100		
83	84.6	75.0	112.4
85	59.3	48.2	72.4
99	56.6	48.5	72.7

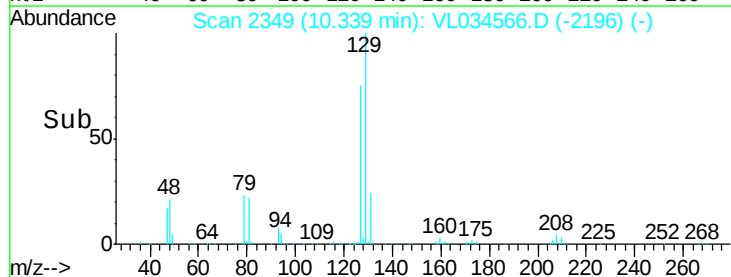
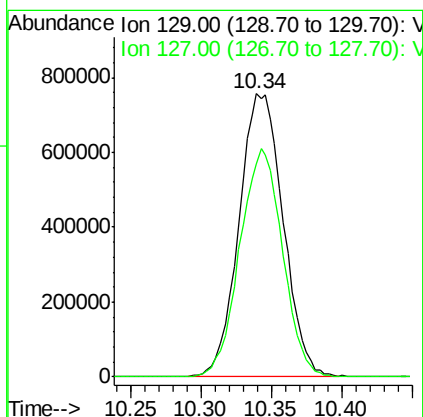
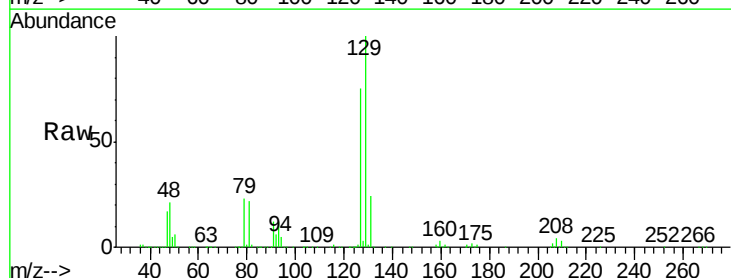
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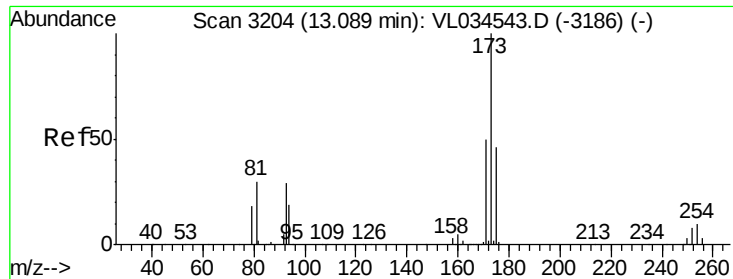
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#48
 Dibromochloromethane
 Concen: 10.695 ppbv
 RT: 10.34 min Scan# 2349
 Delta R.T. -0.01 min
 Lab File: VL034566.D
 Acq: 27 Jan 2020 20:10

Tgt Ion	129	Resp	1656474
Ion	Ratio	Lower	Upper
129	100		
127	78.2	39.4	118.2





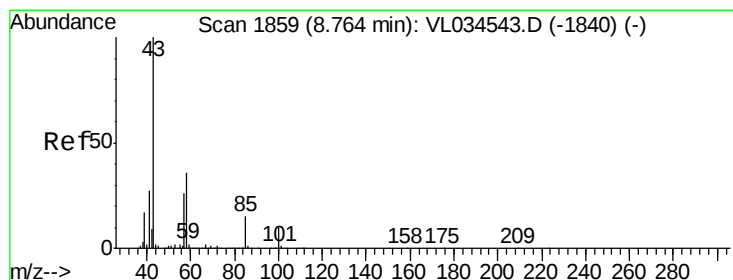
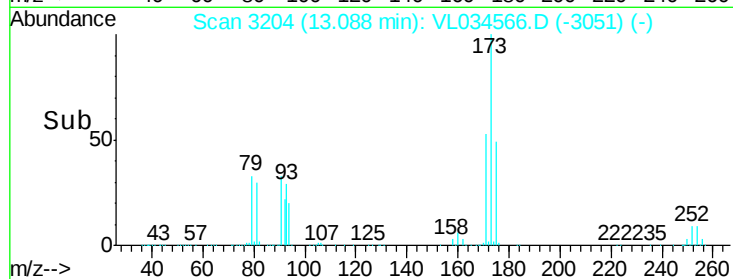
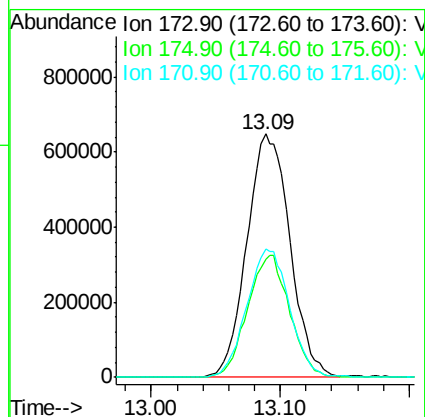
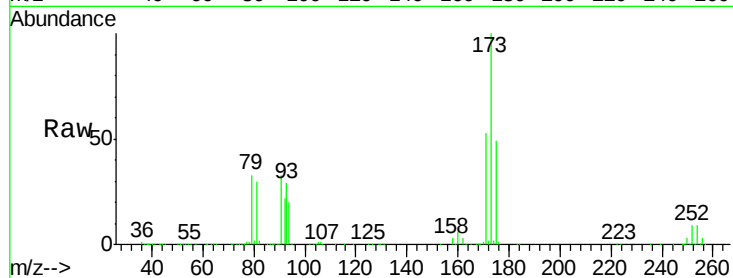
#49
Bromoform
Concen: 10.754 ppbv
RT: 13.09 min Scan# 3204
Delta R.T. -0.01 min
Lab File: VL034566.D
Acq: 27 Jan 2020 20:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:173 Resp: 1507896
Ion Ratio Lower Upper
173 100
175 49.2 39.8 59.8
171 52.6 42.1 63.1

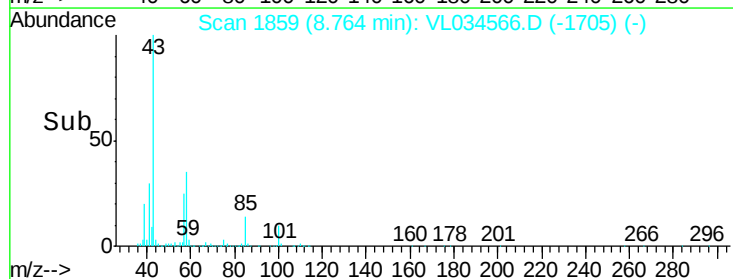
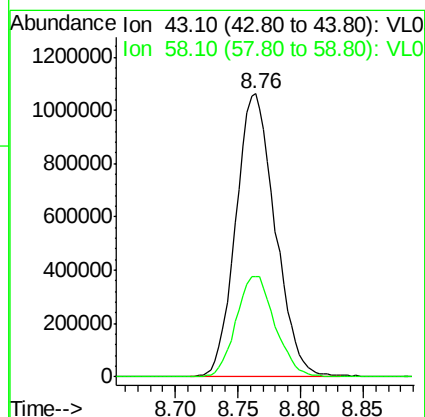
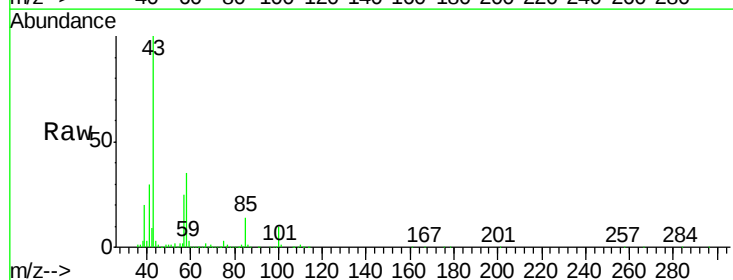
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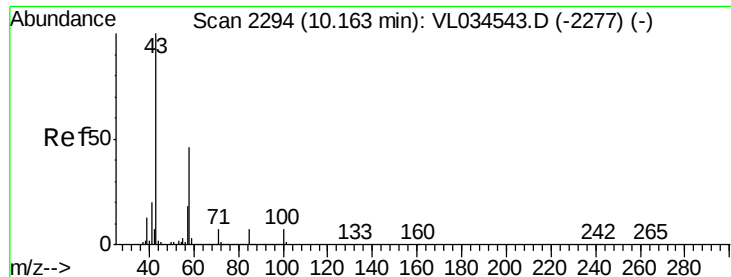
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 9.858 ppbv
RT: 8.76 min Scan# 1859
Delta R.T. -0.00 min
Lab File: VL034566.D
Acq: 27 Jan 2020 20:10

Tgt Ion: 43 Resp: 2312254
Ion Ratio Lower Upper
43 100
58 35.3 28.2 42.2





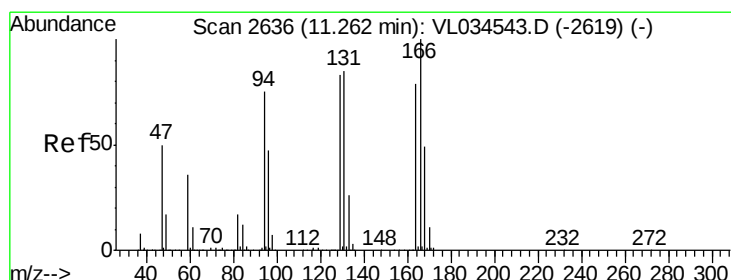
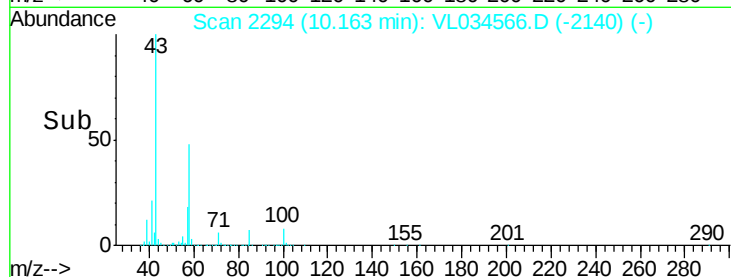
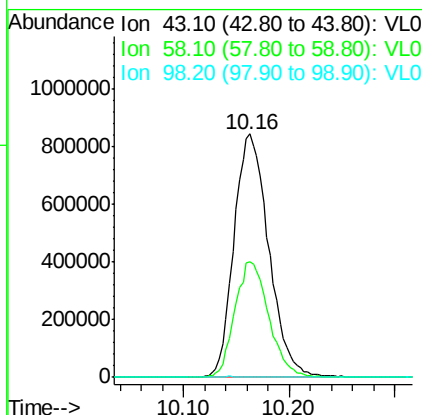
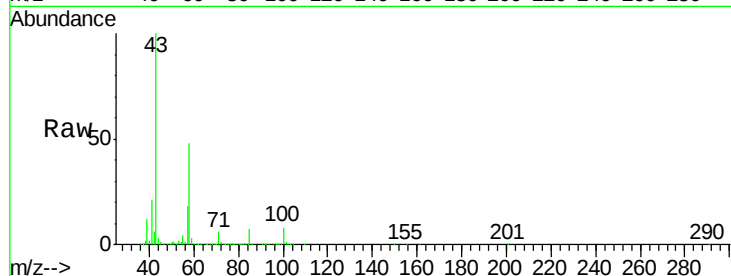
#51
2-Hexanone
Concen: 10.171 ppbv
RT: 10.16 min Scan# 2294
Delta R.T. -0.00 min
Lab File: VL034566.D
Acq: 27 Jan 2020 20:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1925767
Ion Ratio Lower Upper
43 100
58 46.9 37.4 56.0
98 0.3 0.2 0.2#

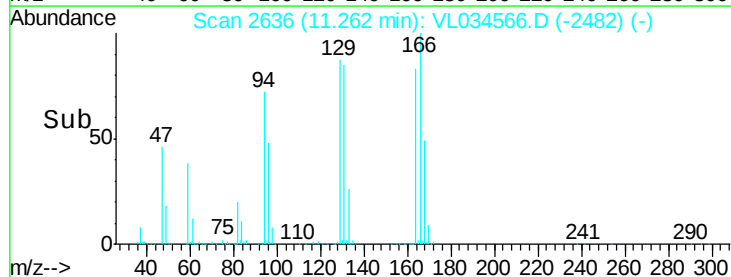
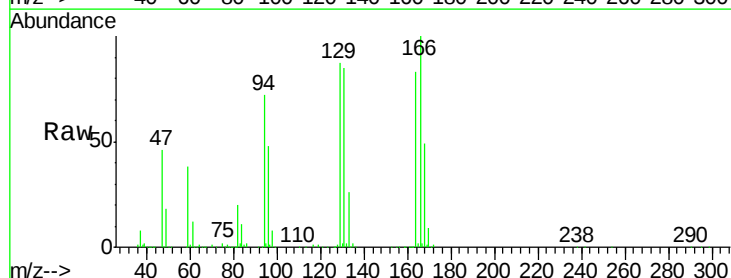
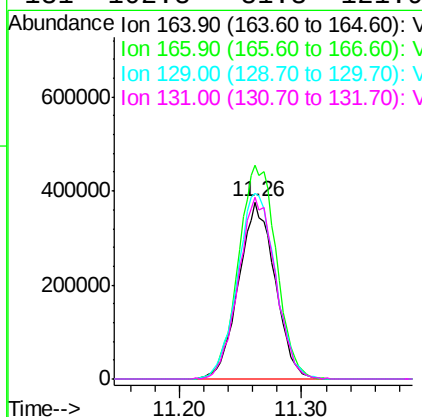
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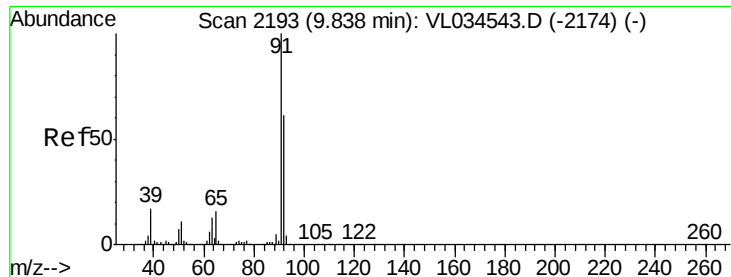
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#52
Tetrachloroethene
Concen: 9.979 ppbv
RT: 11.26 min Scan# 2636
Delta R.T. -0.00 min
Lab File: VL034566.D
Acq: 27 Jan 2020 20:10

Tgt Ion:164 Resp: 767589
Ion Ratio Lower Upper
164 100
166 120.8 95.7 143.5
129 104.7 82.2 123.2
131 102.8 81.3 121.9





#53

Toluene

Concen: 10.539 ppbv

RT: 9.83 min Scan# 2192

Delta R.T. -0.01 min

Lab File: VL034566.D

Acq: 27 Jan 2020 20:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2282113

Ion Ratio Lower Upper

91 100

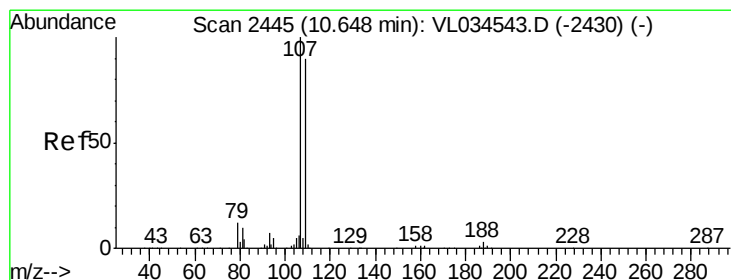
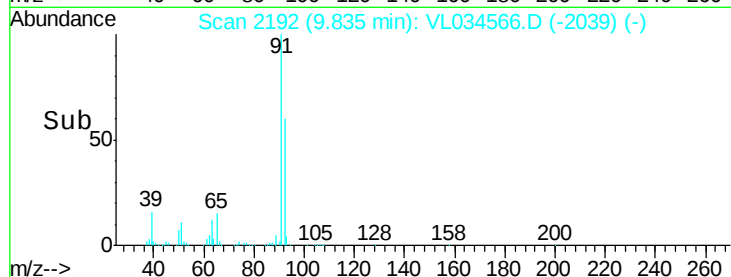
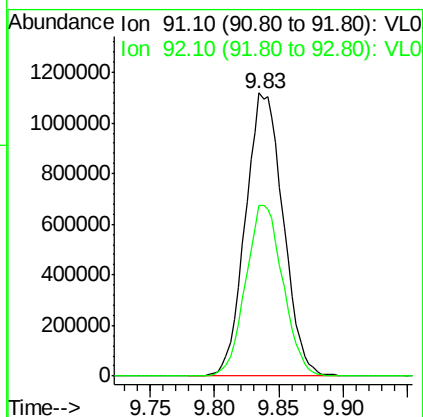
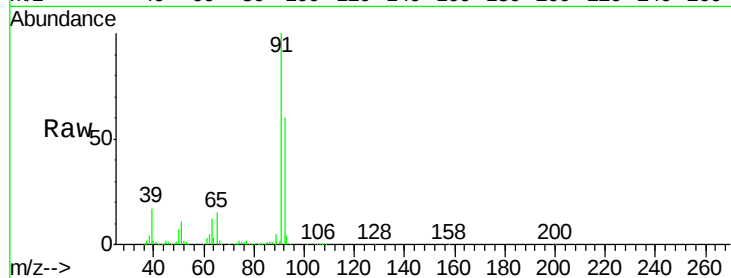
92 59.6 48.4 72.6

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#54

1,2-Dibromoethane

Concen: 10.600 ppbv

RT: 10.65 min Scan# 2445

Delta R.T. -0.01 min

Lab File: VL034566.D

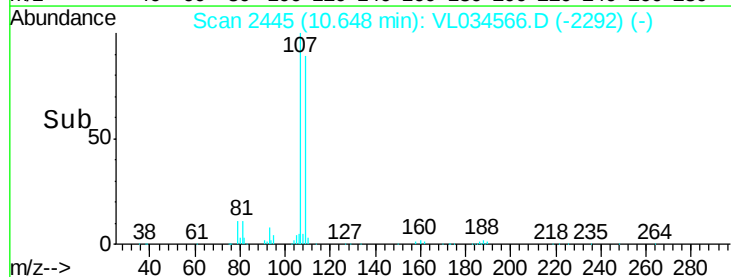
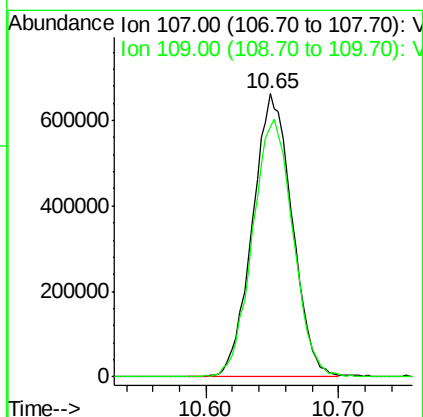
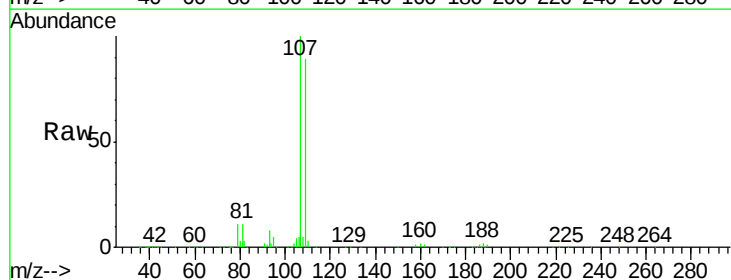
Acq: 27 Jan 2020 20:10

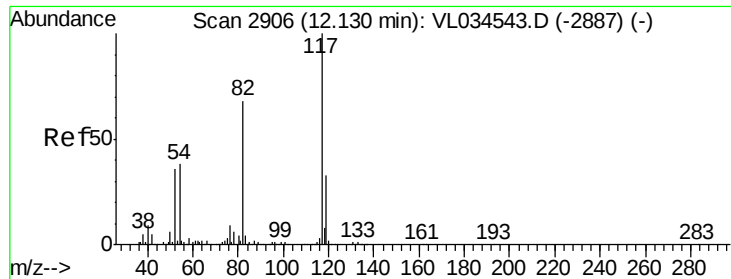
Tgt Ion: 107 Resp: 1378074

Ion Ratio Lower Upper

107 100

109 88.5 75.5 113.3





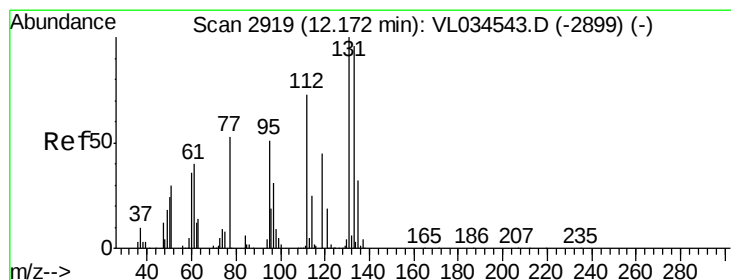
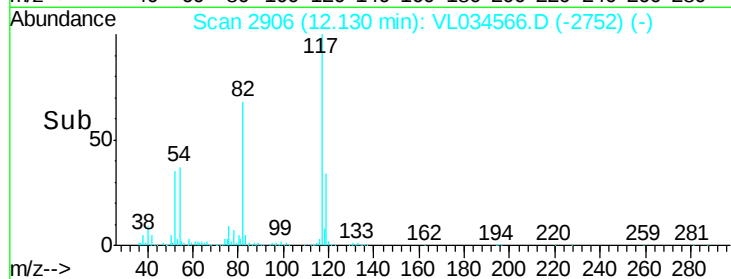
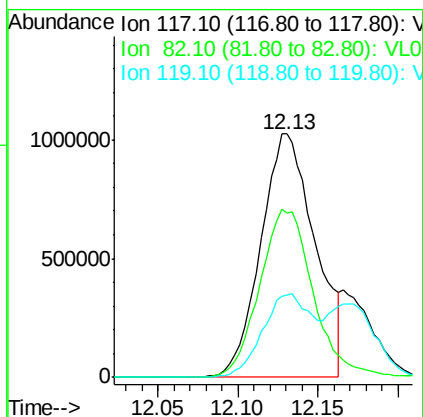
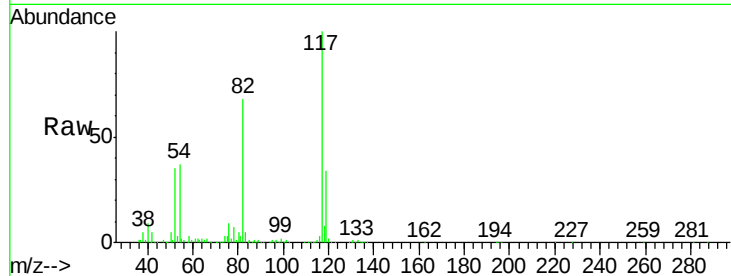
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min Scan# 2906
Delta R.T. -0.00 min
Lab File: VL034566.D
Acq: 27 Jan 2020 20:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	68.2	56.2	84.4
119	32.5	27.1	40.7

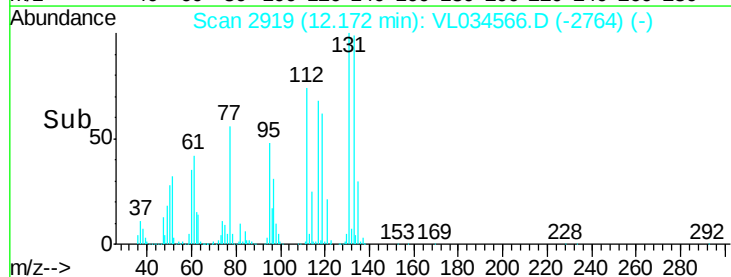
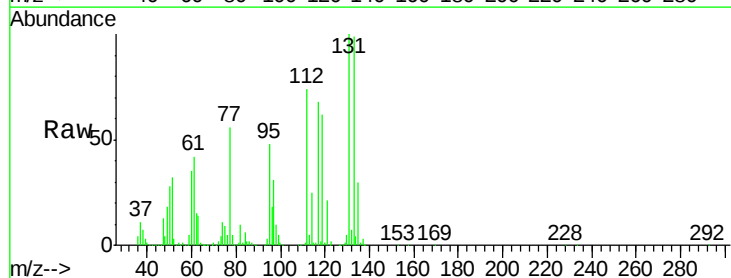
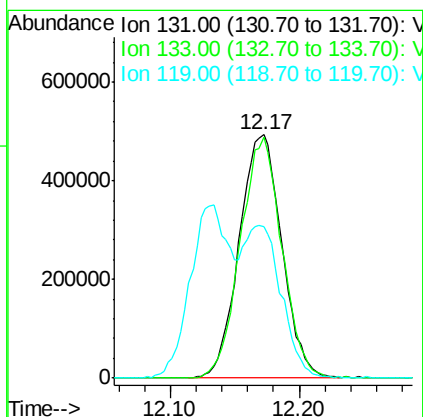
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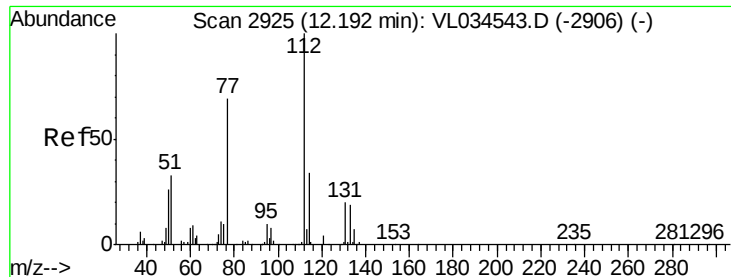
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.717 ppbv
RT: 12.17 min Scan# 2919
Delta R.T. -0.00 min
Lab File: VL034566.D
Acq: 27 Jan 2020 20:10

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.7	76.2	114.2
119	55.2	47.1	70.7





#57

Chlorobenzene

Concen: 9.175 ppbv

RT: 12.19 min Scan# 2924

Delta R.T. -0.01 min

Lab File: VL034566.D

Acq: 27 Jan 2020 20:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:112 Resp: 1831270

Ion Ratio Lower Upper

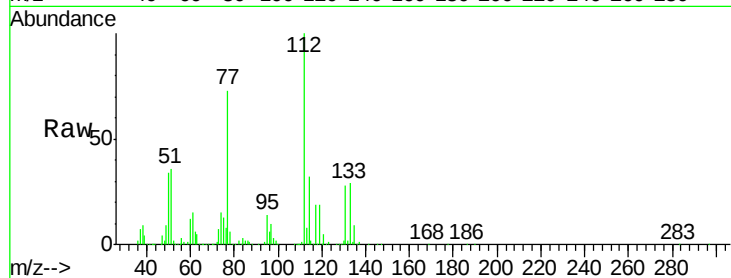
112 100

77 72.7 57.4 86.0

114 31.7 28.4 34.8

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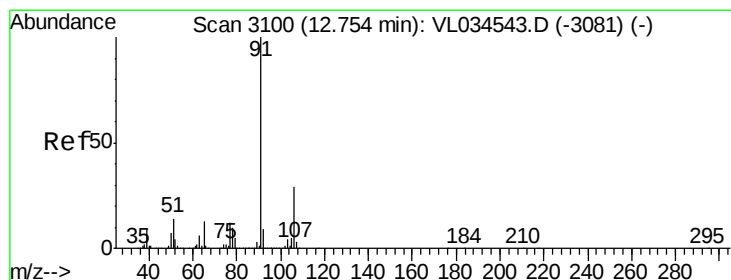
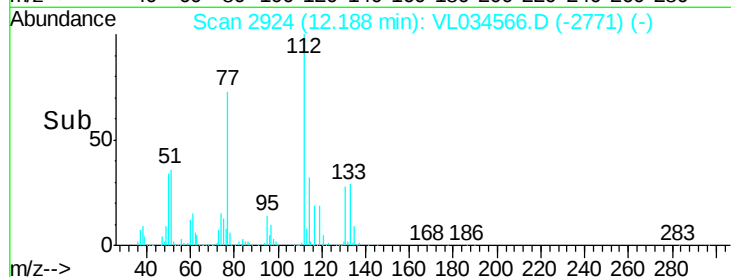
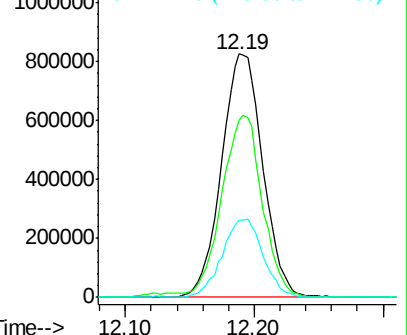
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 9.865 ppbv

RT: 12.76 min Scan# 3101

Delta R.T. 0.00 min

Lab File: VL034566.D

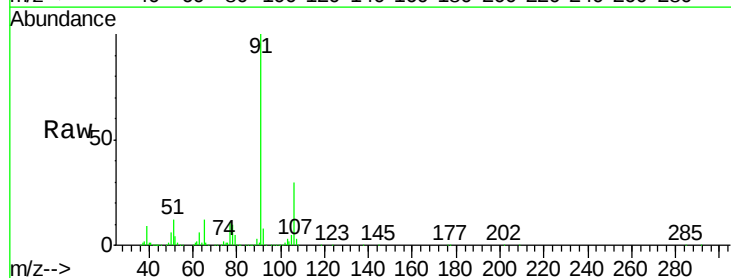
Acq: 27 Jan 2020 20:10

Tgt Ion: 91 Resp: 3218655

Ion Ratio Lower Upper

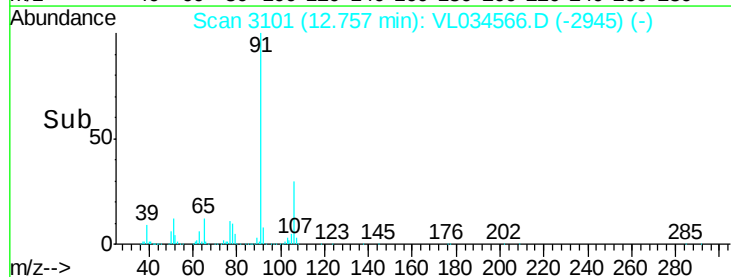
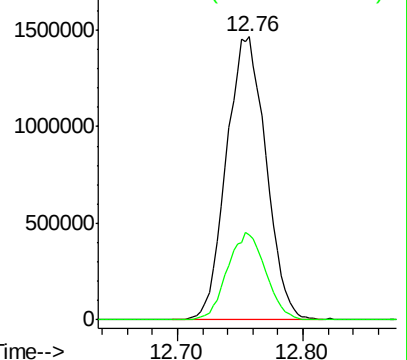
91 100

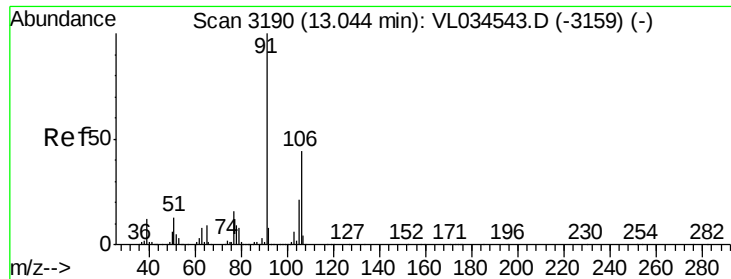
106 29.9 24.6 36.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





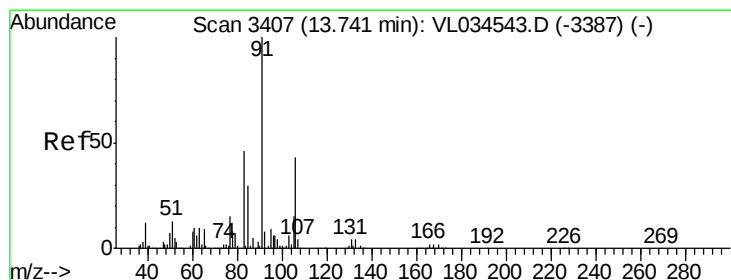
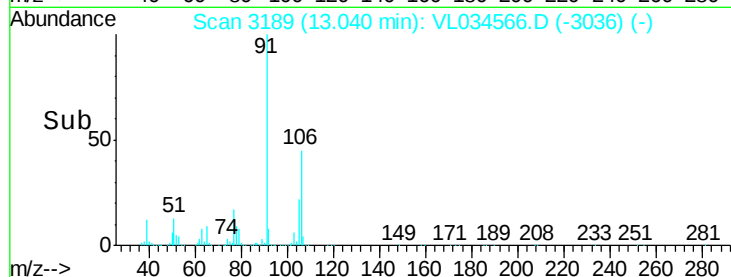
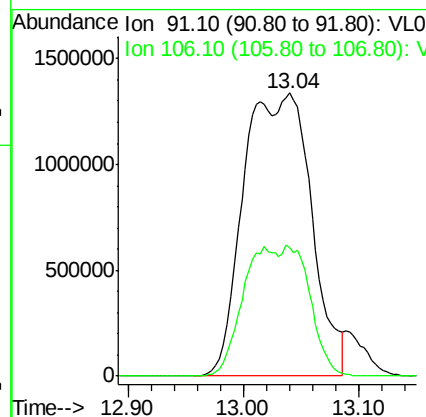
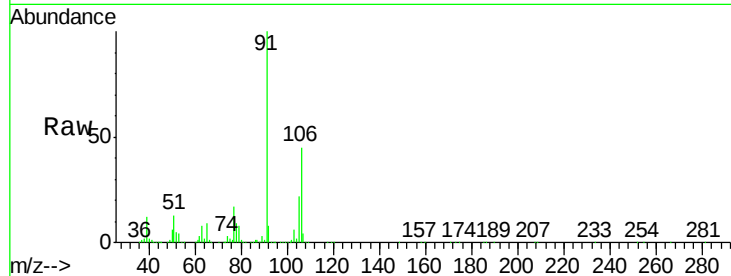
#59
m/p-Xylene
Concen: 19.072 ppbv m
RT: 13.04 min Scan# 3189
Delta R.T. -0.01 min
Lab File: VL034566.D
Acq: 27 Jan 2020 20:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 5441567
Ion Ratio Lower Upper
91 100
106 44.2 35.6 53.4

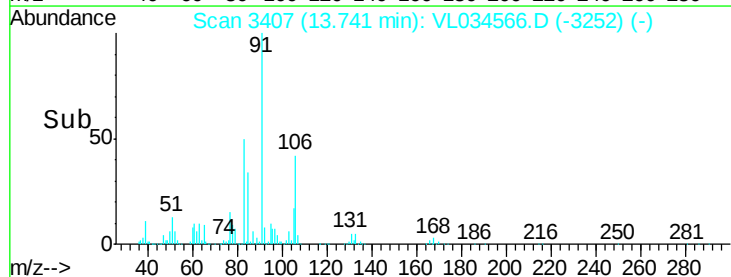
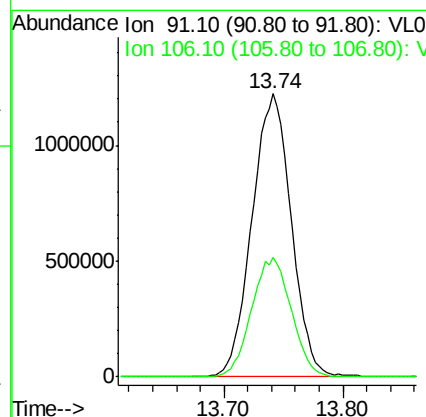
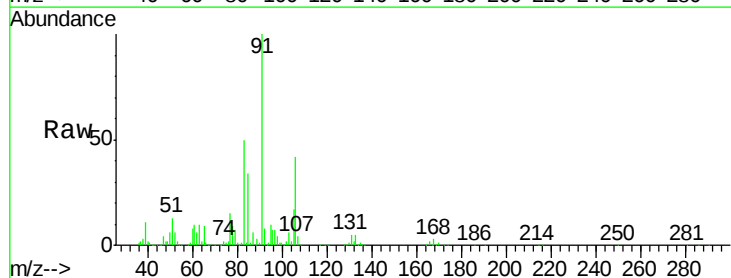
Manual Integrations
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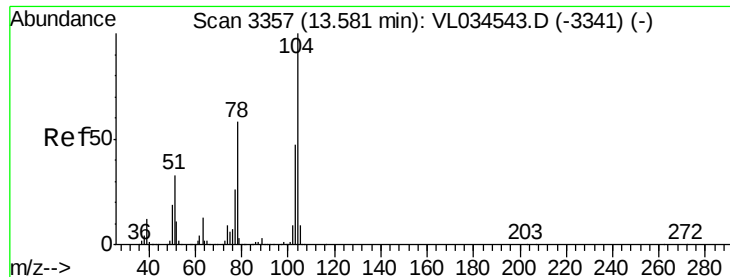
MMDadoda
1/28/2020 2:03:13 PM



#60
o-Xylene
Concen: 9.751 ppbv
RT: 13.74 min Scan# 3407
Delta R.T. -0.00 min
Lab File: VL034566.D
Acq: 27 Jan 2020 20:10

Tgt Ion: 91 Resp: 2791914
Ion Ratio Lower Upper
91 100
106 42.7 21.4 64.3





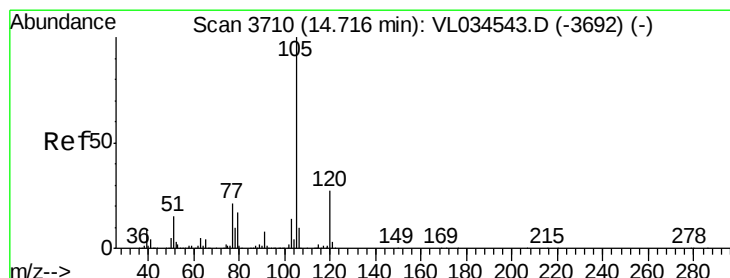
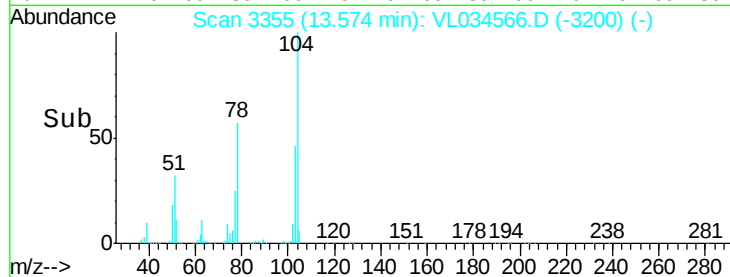
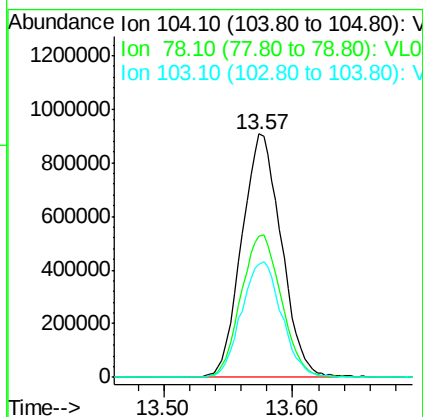
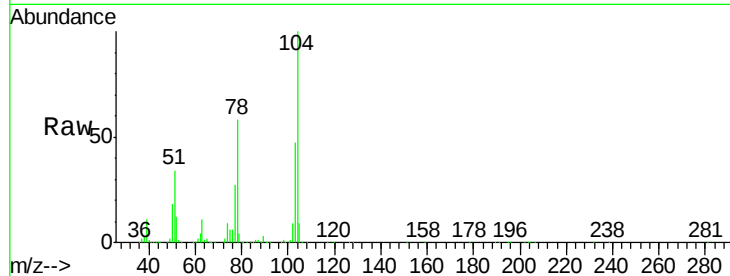
#61
Stvrene
Concen: 9.901 ppbv
RT: 13.57 min Scan# 3355
Delta R.T. -0.00 min
Lab File: VL034566.D
Acq: 27 Jan 2020 20:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	60.0	47.7	71.5
103	48.2	38.6	58.0

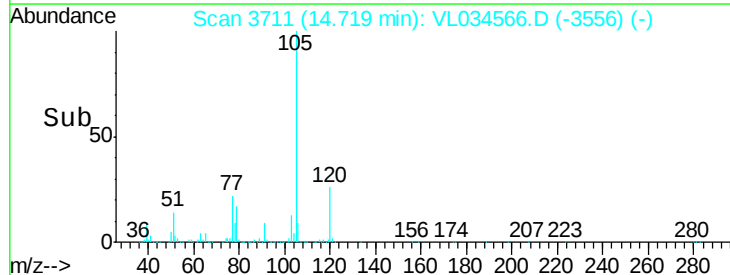
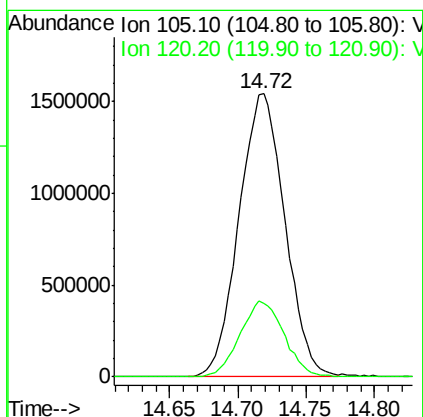
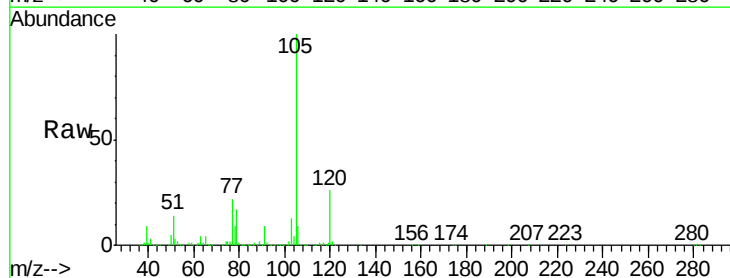
Manual Integrations
APPROVED

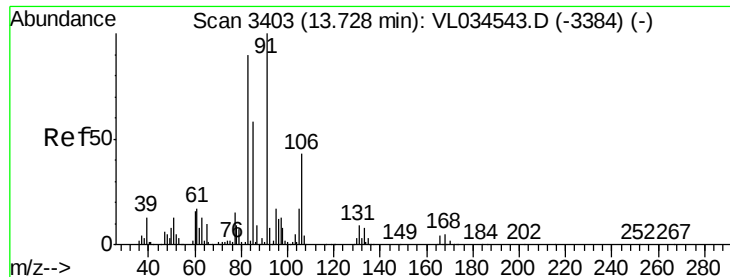
MMDadoda
1/28/2020 2:03:13 PM



#62
Isopropylbenzene
Concen: 9.587 ppbv
RT: 14.72 min Scan# 3711
Delta R.T. -0.00 min
Lab File: VL034566.D
Acq: 27 Jan 2020 20:10

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.0	20.6	30.8





#63

1,1,2,2-Tetrachloroethane

Concen: 8.776 ppbv

RT: 13.73 min Scan# 3402

Delta R.T. -0.00 min

Lab File: VL034566.D

Acq: 27 Jan 2020 20:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 201518

Ion Ratio Lower Upper

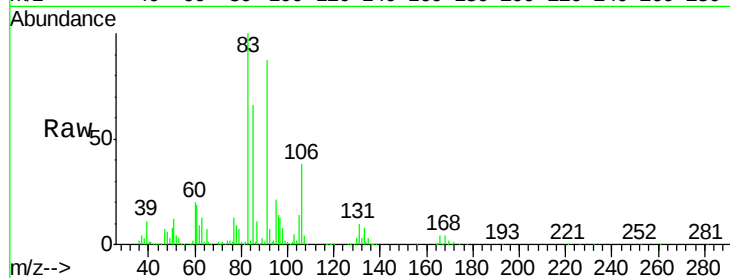
83 100

131 9.8 4.8 14.4

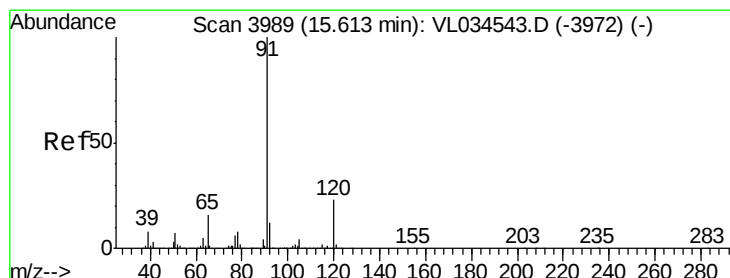
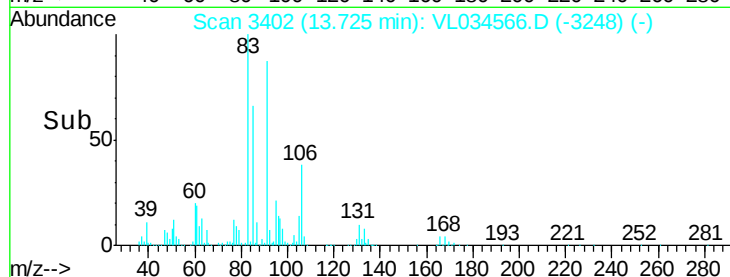
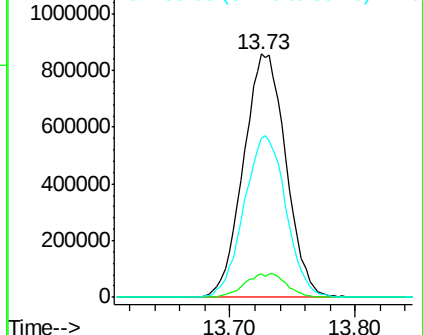
85 65.9 32.5 97.4

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Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 10.027 ppbv

RT: 15.62 min Scan# 3990

Delta R.T. -0.00 min

Lab File: VL034566.D

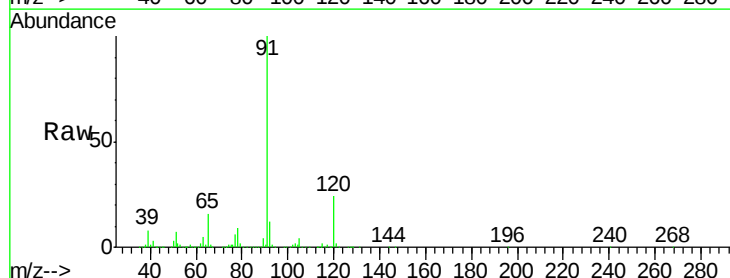
Acq: 27 Jan 2020 20:10

Tgt Ion:120 Resp: 958913

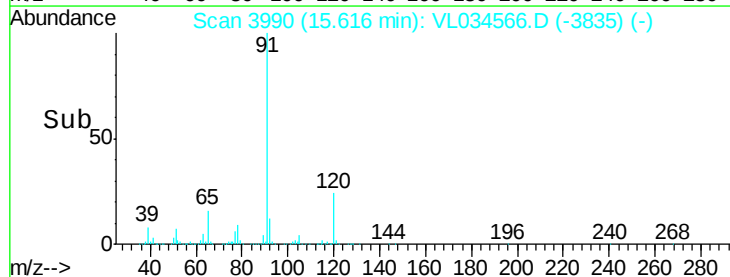
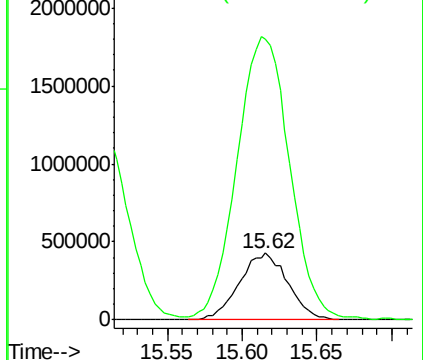
Ion Ratio Lower Upper

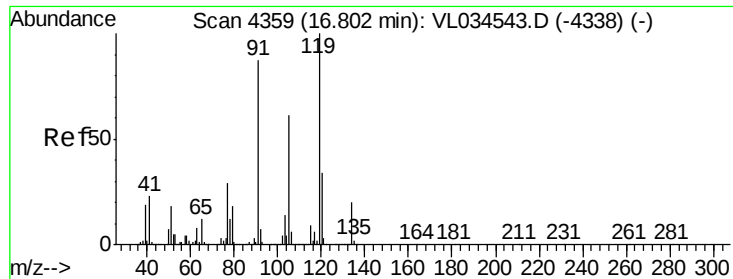
120 100

91 466.5 375.6 563.4



Abundance Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 10.035 ppbv

RT: 16.80 min Scan# 4358

Delta R.T. -0.00 min

Lab File: VL034566.D

Acq: 27 Jan 2020 20:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 3395404

Ion Ratio Lower Upper

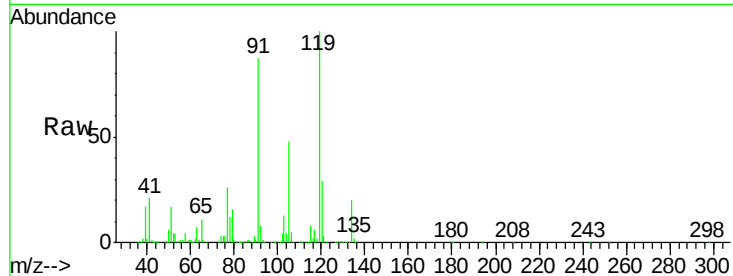
119 100

91 89.2 72.0 108.0

134 19.7 16.1 24.1

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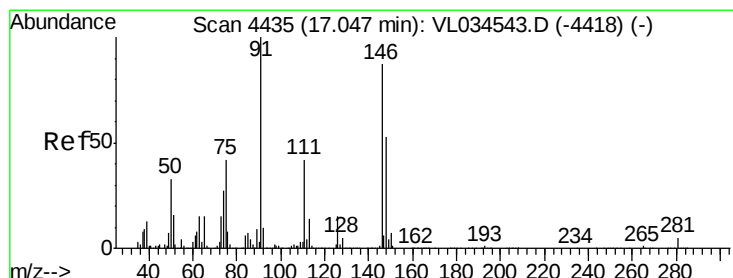
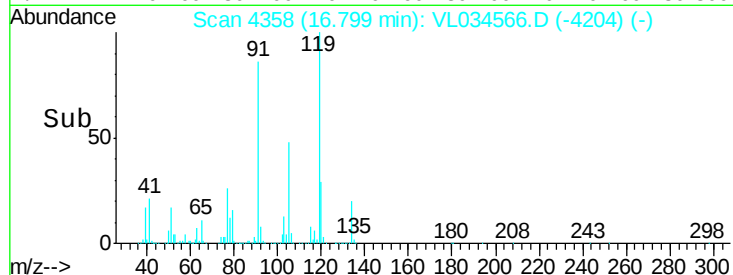
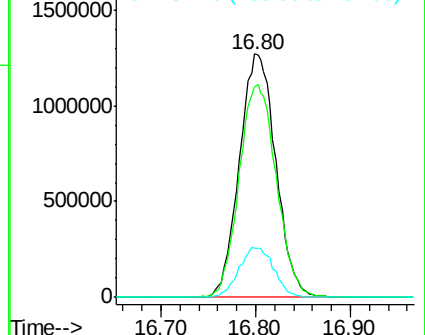
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 11.108 ppbv

RT: 17.05 min Scan# 4436

Delta R.T. 0.00 min

Lab File: VL034566.D

Acq: 27 Jan 2020 20:10

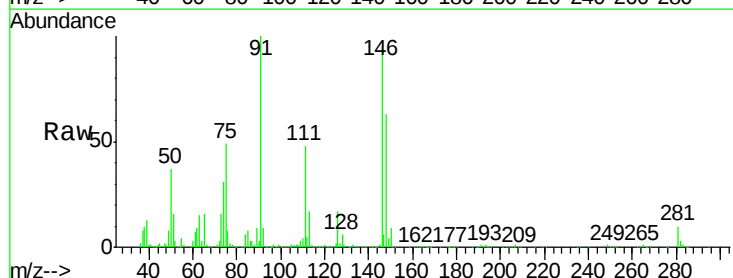
Tgt Ion: 91 Resp: 1647165

Ion Ratio Lower Upper

91 100

126 16.7 13.1 19.7

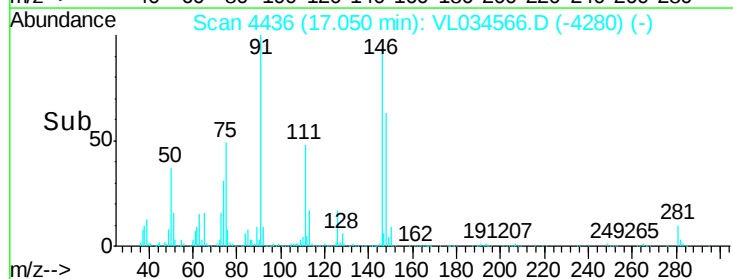
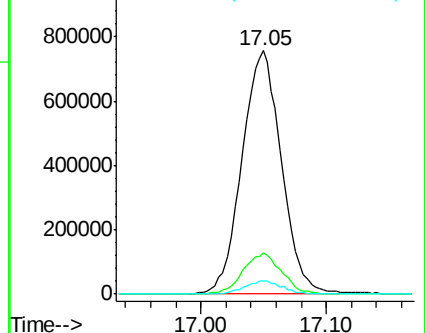
128 5.4 4.2 6.4

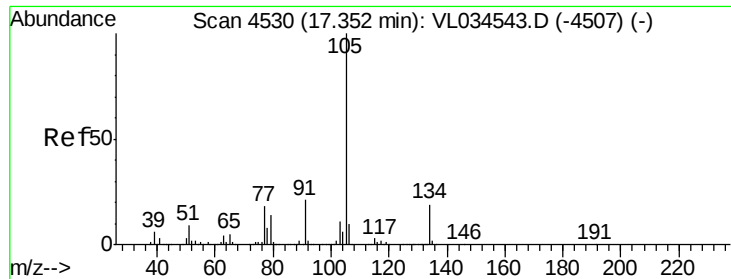


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.674 ppbv

RT: 17.35 min Scan# 4530

Delta R.T. -0.00 min

Lab File: VL034566.D

Acq: 27 Jan 2020 20:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 4596633

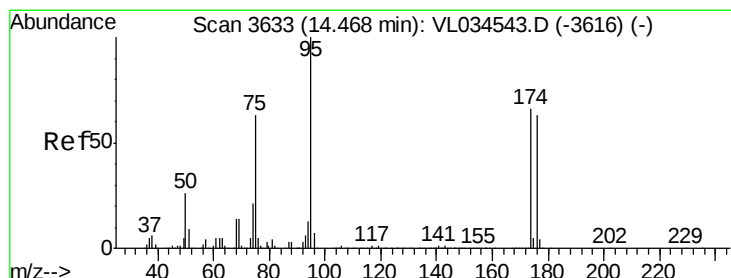
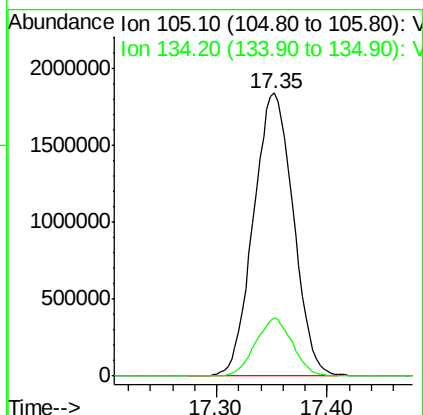
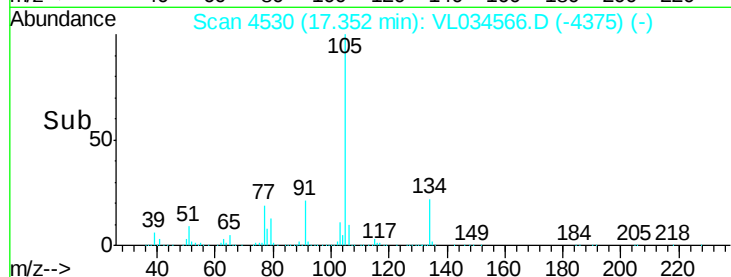
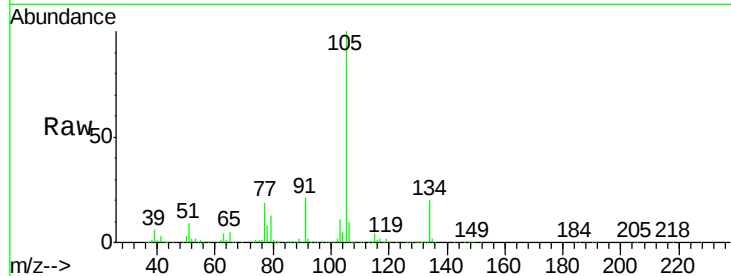
Ion Ratio Lower Upper

105 100

134 19.4 15.1 22.7

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.531 ppbv

RT: 14.47 min Scan# 3633

Delta R.T. -0.00 min

Lab File: VL034566.D

Acq: 27 Jan 2020 20:10

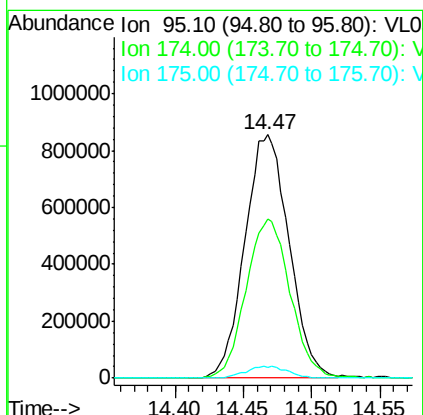
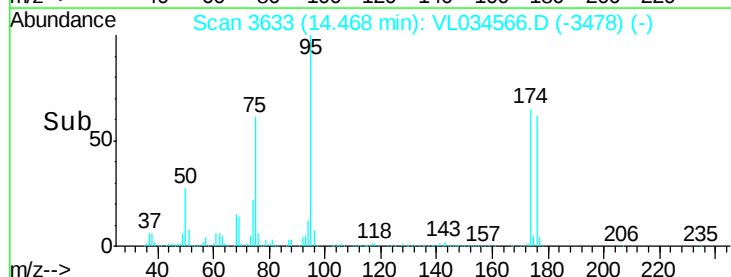
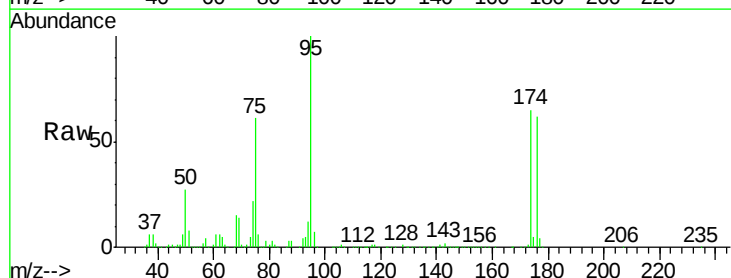
Tgt Ion: 95 Resp: 1924163

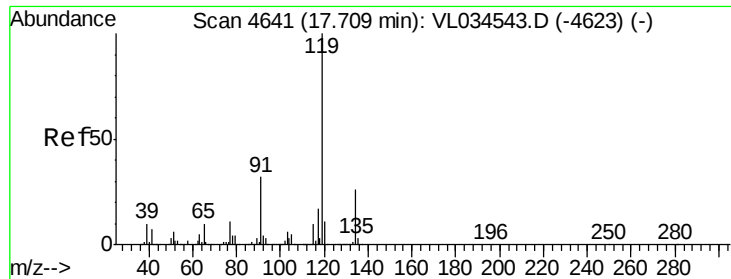
Ion Ratio Lower Upper

95 100

174 65.5 52.4 78.6

175 4.7 3.9 5.9





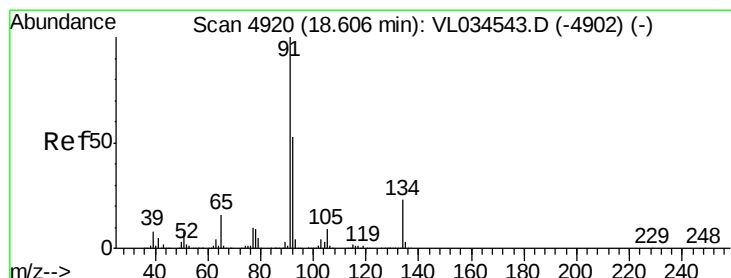
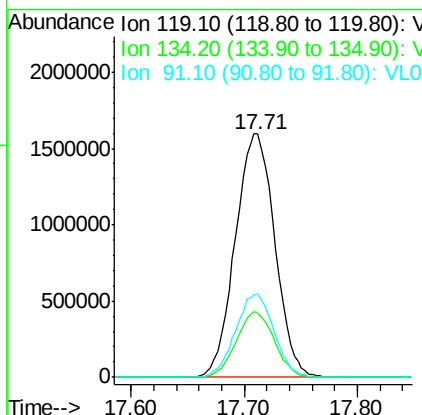
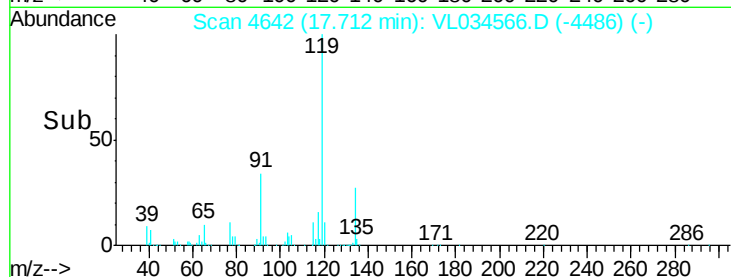
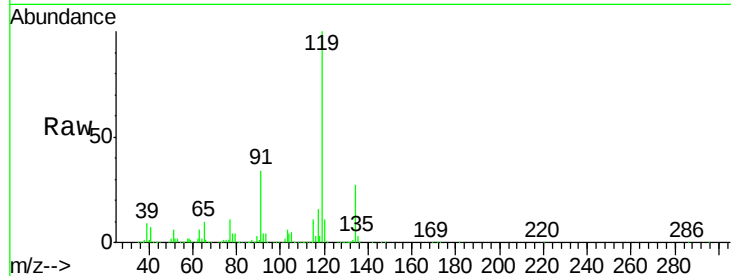
#69
 p-Isopropyltoluene
 Concen: 10.057 ppbv
 RT: 17.71 min Scan# 4642
 Delta R.T. 0.00 min
 Lab File: VL034566.D
 Acq: 27 Jan 2020 20:10

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.0	20.7	31.1
91	33.6	26.6	39.8

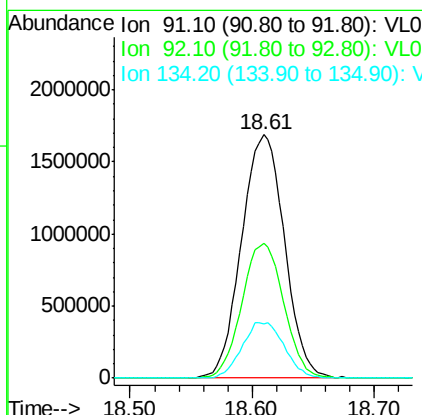
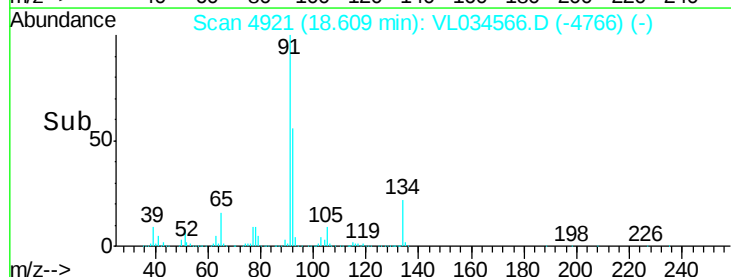
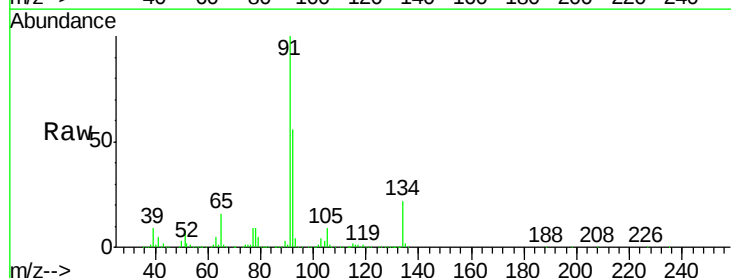
Manual Integrations
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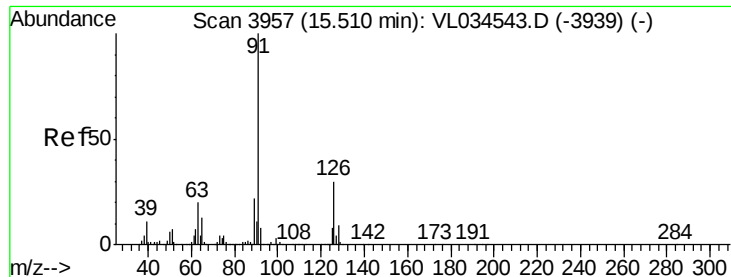
MMDadoda
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#70
 n-Butylbenzene
 Concen: 9.864 ppbv
 RT: 18.61 min Scan# 4921
 Delta R.T. -0.00 min
 Lab File: VL034566.D
 Acq: 27 Jan 2020 20:10

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.4	43.8	65.6
134	22.5	18.0	27.0





#71

2-Chlorotoluene

Concen: 9.805 ppbv

RT: 15.51 min Scan# 3956

Delta R.T. -0.00 min

Lab File: VL034566.D

Acq: 27 Jan 2020 20:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2851698

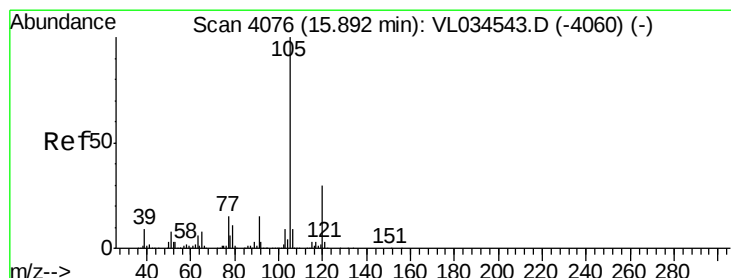
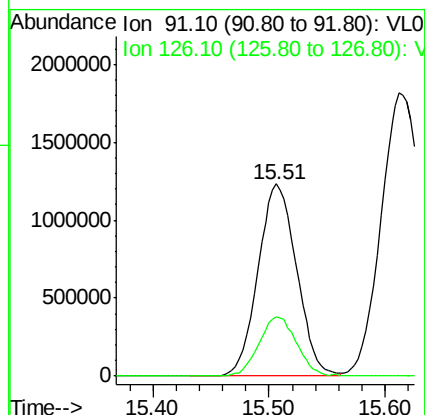
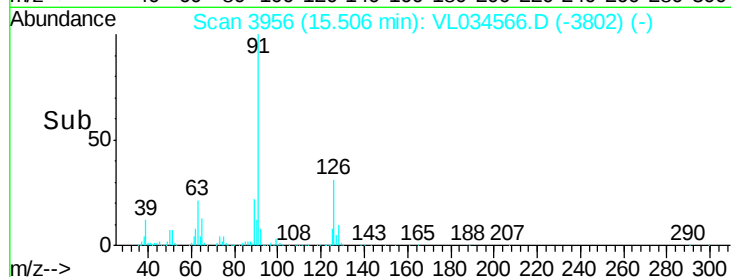
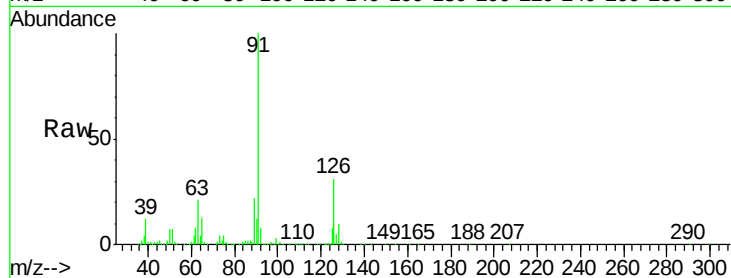
Ion Ratio Lower Upper

91 100

126 30.3 12.0 47.8

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#72

4-Ethyltoluene

Concen: 9.859 ppbv

RT: 15.90 min Scan# 4077

Delta R.T. 0.00 min

Lab File: VL034566.D

Acq: 27 Jan 2020 20:10

Tgt Ion: 105 Resp: 3158561

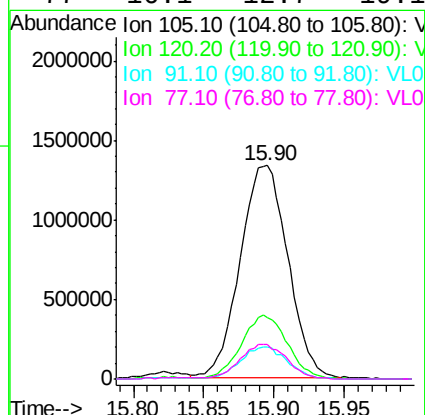
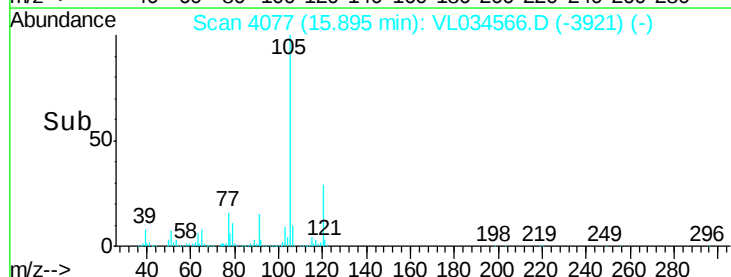
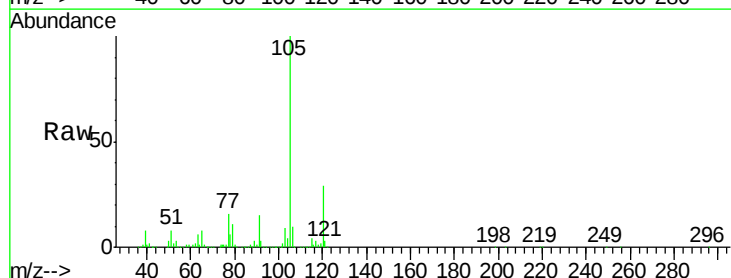
Ion Ratio Lower Upper

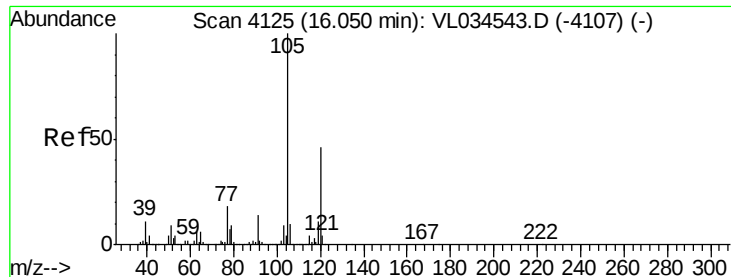
105 100

120 29.3 23.7 35.5

91 15.0 11.5 17.3

77 16.1 12.7 19.1





#73

1,3,5-Trimethylbenzene

Concen: 9.774 ppbv

RT: 16.05 min Scan# 4126

Delta R.T. -0.00 min

Lab File: VL034566.D

Acq: 27 Jan 2020 20:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 3072264

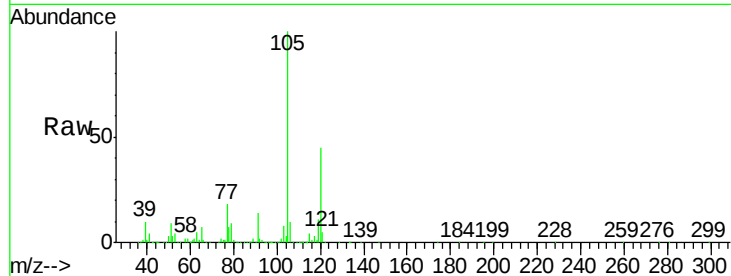
Ion Ratio Lower Upper

105 100

120 45.4 34.6 52.0

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.05

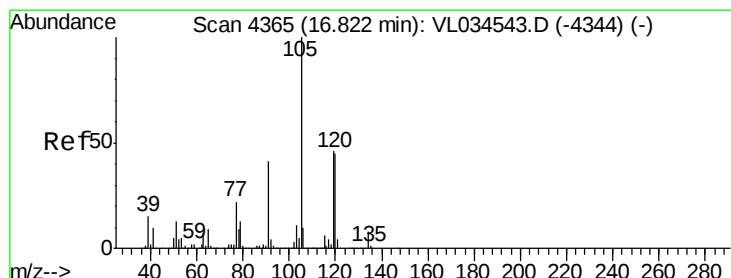
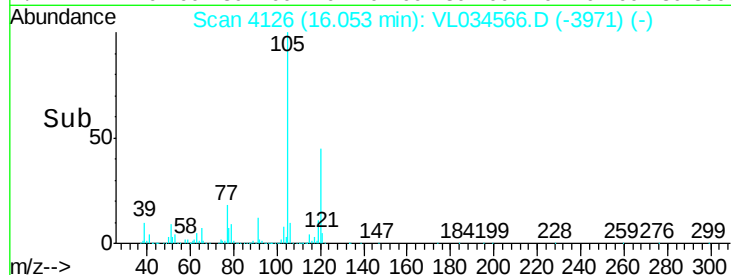
1500000

1000000

500000

0

Time--> 15.95 16.00 16.05 16.10



#74

1,2,4-Trimethylbenzene

Concen: 9.642 ppbv

RT: 16.82 min Scan# 4364

Delta R.T. -0.00 min

Lab File: VL034566.D

Acq: 27 Jan 2020 20:10

Tgt Ion:105 Resp: 3242152

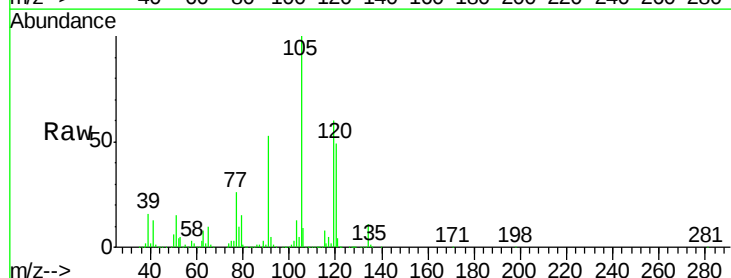
Ion Ratio Lower Upper

105 100

120 48.7 36.7 55.1

91 53.2 44.0 66.0

77 26.0 19.9 29.9



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

2000000

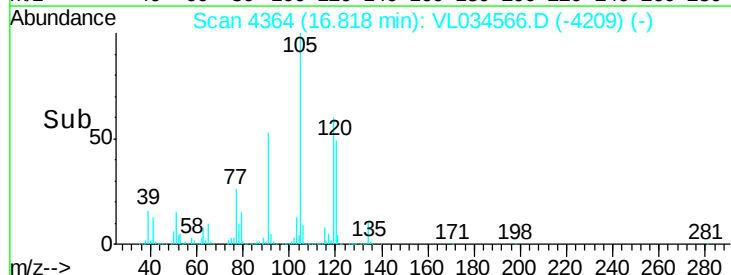
1500000

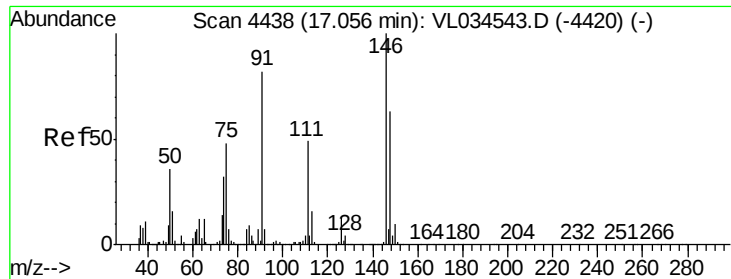
1000000

500000

0

Time--> 16.70 16.80 16.90





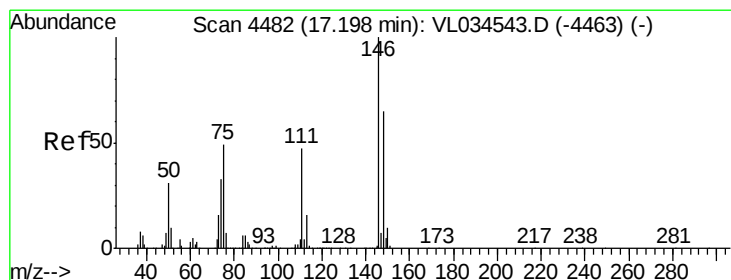
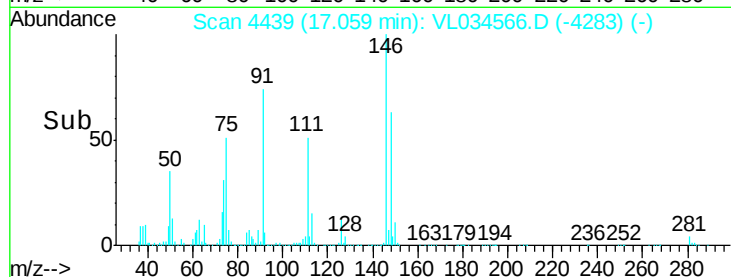
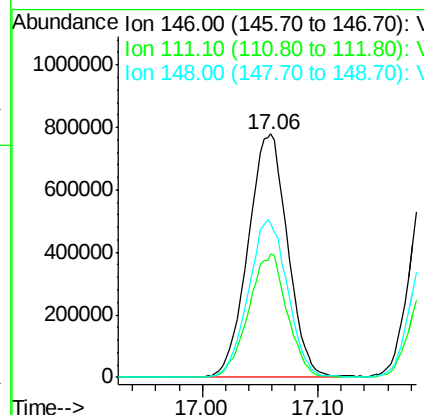
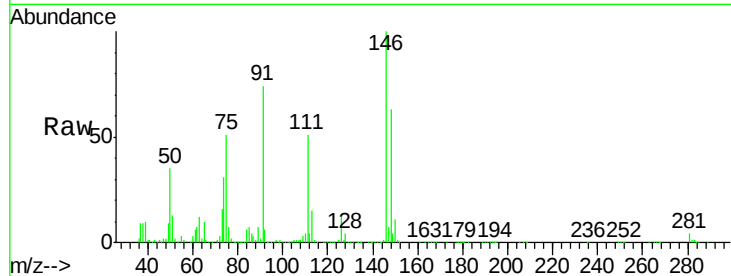
#75
 1,3-Dichlorobenzene
 Concen: 9.170 ppbv
 RT: 17.06 min Scan# 4439
 Delta R.T. 0.00 min
 Lab File: VL034566.D
 Acq: 27 Jan 2020 20:10

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 1846784
 Ion Ratio Lower Upper
 146 100
 111 49.5 25.1 75.3
 148 64.2 33.0 99.0

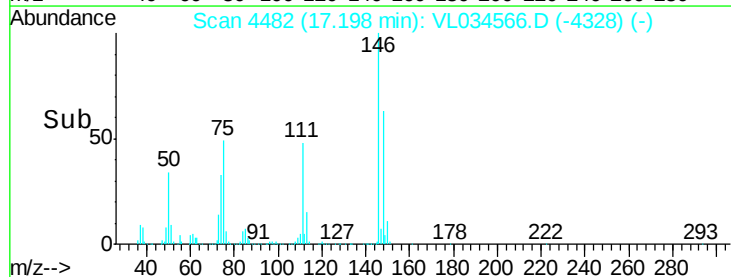
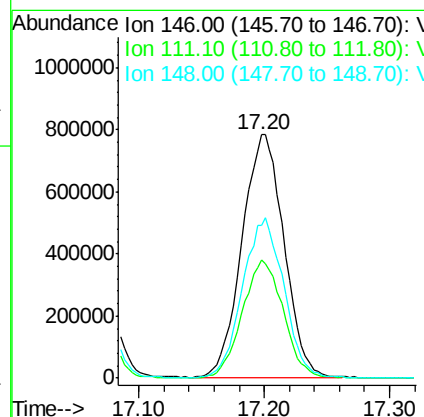
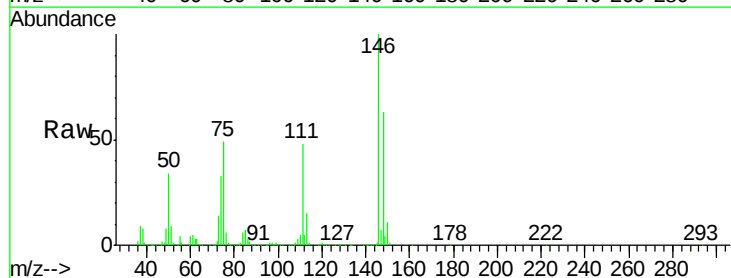
Manual Integrations
 APPROVED

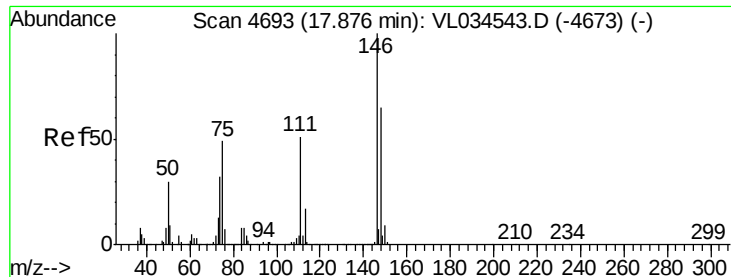
MMDadoda
 1/28/2020 2:03:13 PM



#76
 1,4-Dichlorobenzene
 Concen: 9.362 ppbv
 RT: 17.20 min Scan# 4482
 Delta R.T. -0.00 min
 Lab File: VL034566.D
 Acq: 27 Jan 2020 20:10

Tgt Ion:146 Resp: 1815202
 Ion Ratio Lower Upper
 146 100
 111 47.5 23.5 70.6
 148 65.4 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 9.538 ppbv

RT: 17.88 min Scan# 4693

Delta R.T. -0.00 min

Lab File: VL034566.D

Acq: 27 Jan 2020 20:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 1805240

Ion Ratio Lower Upper

146 100

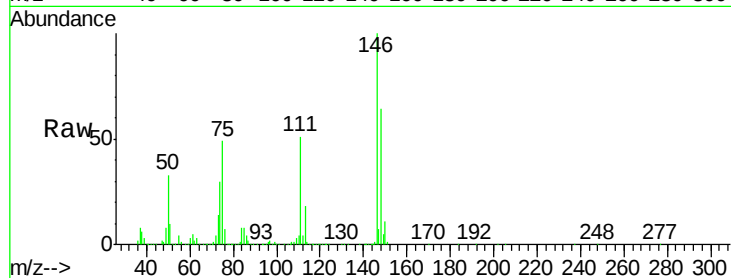
111 50.5 25.3 75.8

148 64.3 32.1 96.3

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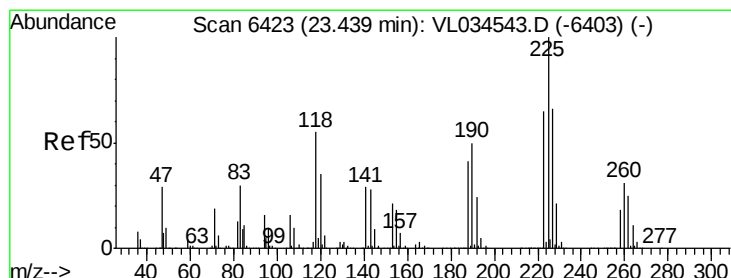
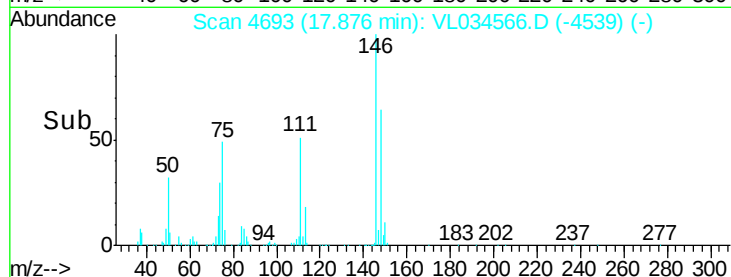
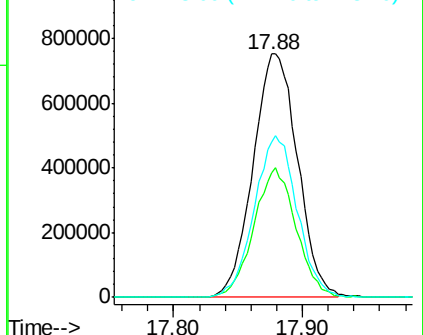
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 8.398 ppbv

RT: 23.44 min Scan# 6424

Delta R.T. 0.00 min

Lab File: VL034566.D

Acq: 27 Jan 2020 20:10

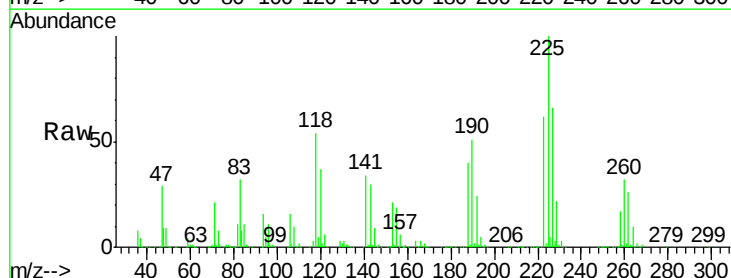
Tgt Ion:225 Resp: 1508793

Ion Ratio Lower Upper

225 100

223 62.6 51.0 76.6

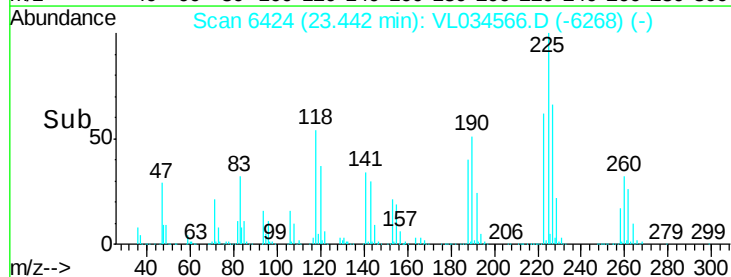
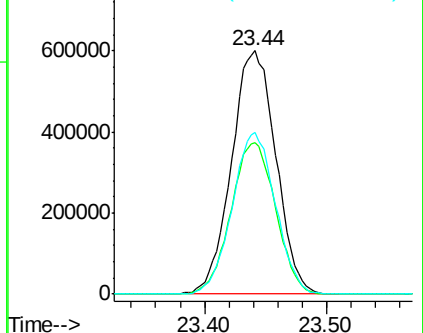
227 64.7 51.8 77.6

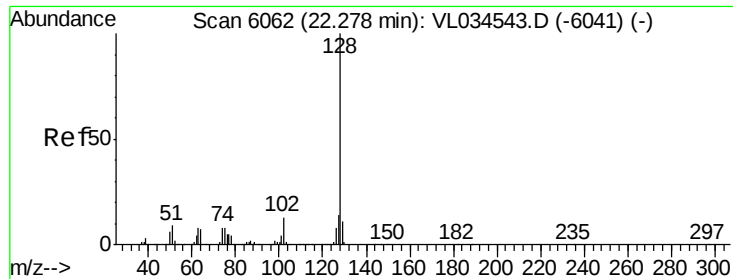


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





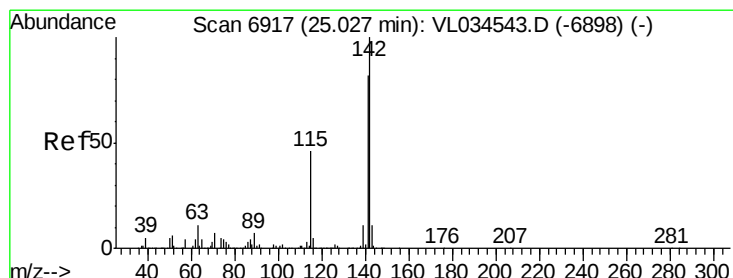
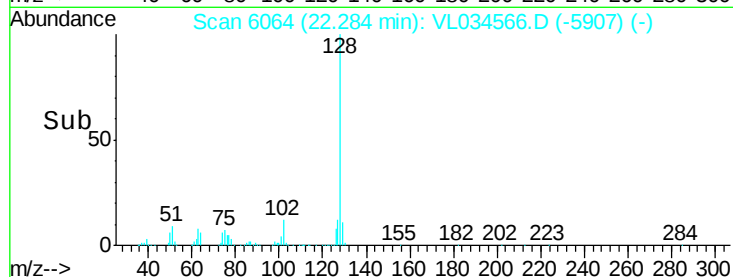
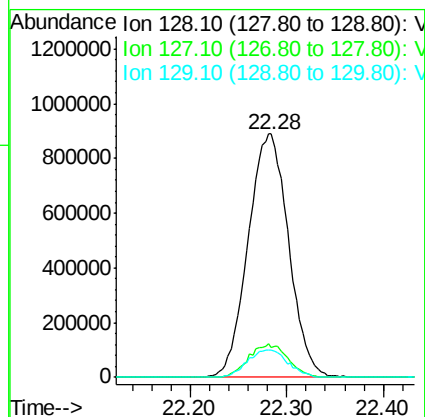
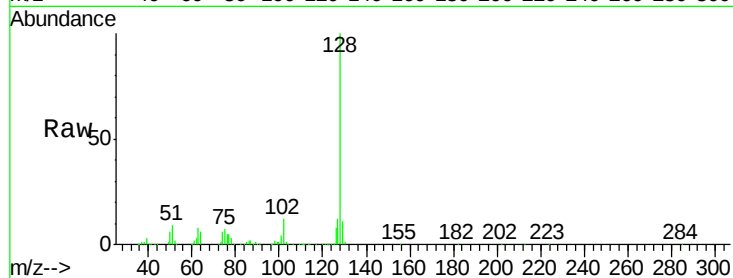
#79
Naphthalene
Concen: 10.189 ppbv
RT: 22.28 min Scan# 6064
Delta R.T. 0.01 min
Lab File: VL034566.D
Acq: 27 Jan 2020 20:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.6	15.8
129	11.3	8.7	13.1

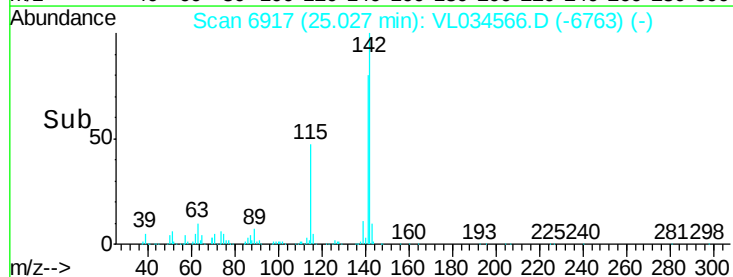
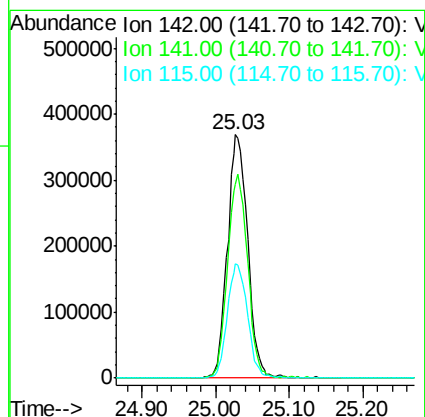
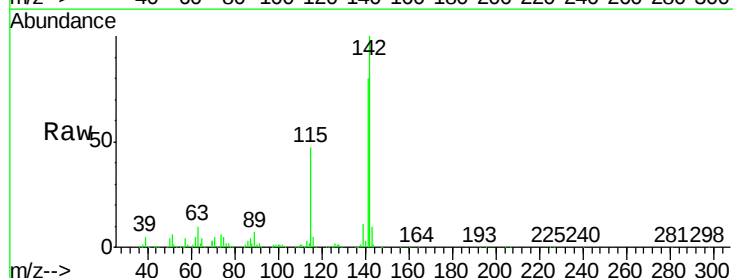
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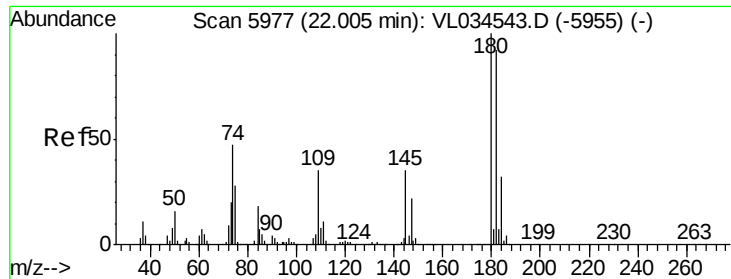
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#80
Naphthalene, 2-methyl-
Concen: 10.056 ppbv
RT: 25.03 min Scan# 6917
Delta R.T. -0.00 min
Lab File: VL034566.D
Acq: 27 Jan 2020 20:10

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.0	65.8	98.8
115	46.8	30.4	45.6#





#81
 1,2,4-Trichlorobenzene
 Concen: 9.237 ppbv
 RT: 22.01 min Scan# 5978
 Delta R.T. -0.00 min
 Lab File: VL034566.D
 Acq: 27 Jan 2020 20:10

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	77.8	116.8
184	31.1	25.2	37.8

Manual Integrations
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