

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031020\
 Data File : VL034863.D
 Acq On : 10 Mar 2020 11:30
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
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 3/11/2020 3:17:10 PM

Quant Time: Mar 11 06:34:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 0
 QLast Update : Mon Mar 09 16:42:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	898756	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2036199	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2041050m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1644725	10.33	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	1454876	11.821	ppbv	99
3) Chlorodifluoromethane	2.95	51	941839	9.381	ppbv	100
4) Chloromethane	3.10	50	554091	9.765	ppbv	99
5) Vinyl Chloride	3.22	62	515210	9.444	ppbv	96
6) Bromomethane	3.44	94	309816	9.756	ppbv	97
7) Chloroethane	3.52	64	188149	9.551	ppbv	96
8) Dichlorotetrafluoroethane	3.15	85	1167682	9.136	ppbv	97
9) Propene	2.97	41	435990	9.096	ppbv	100
10) Heptane	8.13	43	1139334	9.658	ppbv	99
11) Trichlorofluoromethane	3.92	101	1192266	9.106	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.46	101	844024	9.210	ppbv	99
13) Ethanol	3.57	45	102839m	7.057	ppbv	
14) Bromoethene	3.71	108	373353	9.434	ppbv	100
15) Acetone	3.82	43	1071939	9.202	ppbv	100
16) 1,3-Butadiene	3.29	39	504864	9.584	ppbv	97
17) tert-Butyl alcohol	4.27	59	809552	7.214	ppbv	99
18) 1,1-Dichloroethene	4.26	96	388943	9.584	ppbv	98
19) Isopropyl Alcohol	3.94	45	545392	7.414	ppbv #	41
20) Methylene Chloride	4.32	84	329638	8.950	ppbv	96
21) Allyl Chloride	4.39	41	702775	9.394	ppbv	100
22) trans-1,2-Dichloroethene	4.86	96	387898	9.422	ppbv	97
23) Vinyl Acetate	5.06	43	1666935	9.687	ppbv	99
24) 1,1-Dichloroethane	5.00	63	1087017	9.423	ppbv	99
25) Ethyl Acetate	5.66	43	1914352	9.224	ppbv	100
26) Hexane	5.68	57	828797	9.274	ppbv	98
27) Carbon Disulfide	4.53	76	980622	9.670	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	1346695	9.057	ppbv	98
29) Chloroform	5.74	83	1263403	9.266	ppbv	96
30) Cyclohexane	7.13	84	710945	9.535	ppbv	99
31) cis-1,2-Dichloroethene	5.54	61	873443	9.557	ppbv	98
32) 1,1,1-Trichloroethane	6.51	97	1261854	9.498	ppbv	99
34) 2-Butanone	5.23	43	1280379	9.462	ppbv	100
35) Carbon Tetrachloride	7.02	117	1298687	10.255	ppbv	98
36) Benzene	6.89	78	1705423	9.396	ppbv	99
37) 1,2-Dichloroethane	6.31	62	988988	9.664	ppbv	99
38) Trichloroethene	7.84	130	649768	9.426	ppbv	96
39) 1,2-Dichloropropane	7.62	63	675837	9.399	ppbv	95
40) 1,4-Dioxane	7.84	88	228720	8.422	ppbv #	95
41) Tetrahydrofuran	6.04	42	719264	9.823	ppbv	99
42) Bromodichloromethane	7.80	83	1353125	9.701	ppbv	98
43) Methyl Methacrylate	8.02	69	767331	10.035	ppbv	100

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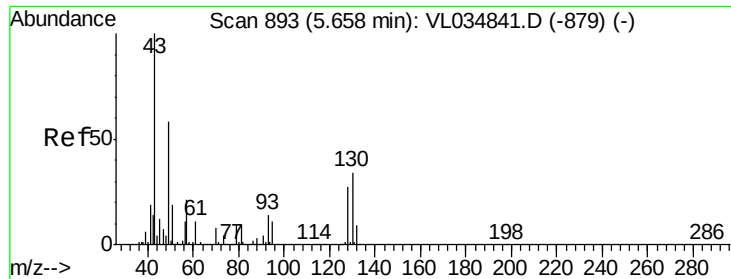
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	2938321	9.580	ppbv	100
45) t-1,3-Dichloropropene	9.30	75	917953	10.218	ppbv	98
46) cis-1,3-Dichloropropene	8.72	75	1062897	9.957	ppbv	98
47) 1,1,2-Trichloroethane	9.49	97	687381	9.314	ppbv	97
48) Dibromochloromethane	10.33	129	1132724	9.478	ppbv	98
49) Bromoform	13.07	173	985597	9.249	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	1885208	9.678	ppbv	100
51) 2-Hexanone	10.15	43	1549646	9.789	ppbv	99
52) Tetrachloroethene	11.25	164	610347	8.500	ppbv	96
53) Toluene	9.83	91	1996233	9.524	ppbv	100
54) 1,2-Dibromoethane	10.63	107	1051405	9.465	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.15	131	856354	9.340	ppbv #	58
57) Chlorobenzene	12.18	112	1462541	9.158	ppbv	98
58) Ethyl Benzene	12.74	91	2632046	9.522	ppbv	98
59) m/p-Xylene	13.02	91	4274558m	18.459	ppbv	
60) o-Xylene	13.72	91	2088028	9.235	ppbv	100
61) Styrene	13.56	104	1564771	9.862	ppbv	99
62) Isopropylbenzene	14.70	105	3115116	9.112	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.71	83	1418940	9.244	ppbv	98
64) n-propylbenzene	15.60	120	810459	9.108	ppbv	94
65) tert-Butylbenzene	16.78	119	2696395	9.022	ppbv	98
66) Benzyl Chloride	17.03	91	1323910	10.624	ppbv	99
67) sec-Butylbenzene	17.33	105	3829114	9.240	ppbv	99
69) p-Isopropyltoluene	17.69	119	3245116	9.339	ppbv	99
70) n-Butylbenzene	18.59	91	3366426	9.495	ppbv	99
71) 2-Chlorotoluene	15.49	91	2359543	9.114	ppbv	100
72) 4-Ethyltoluene	15.87	105	2501360	9.368	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	2358301	9.435	ppbv	98
74) 1,2,4-Trimethylbenzene	16.80	105	2428342	9.430	ppbv	95
75) 1,3-Dichlorobenzene	17.03	146	1409199	9.075	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	1417211	9.146	ppbv	99
77) 1,2-Dichlorobenzene	17.86	146	1381345	9.178	ppbv	97
78) Hexachloro-1,3-Butadiene	23.42	225	1289345	10.256	ppbv	100
79) Naphthalene	22.26	128	2473436	12.316	ppbv	99
80) Naphthalene, 2-methyl-	25.01	142	921168	17.552	ppbv	100
81) 1,2,4-Trichlorobenzene	21.99	180	1415242	11.092	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. 0.00 min

Lab File: VL034863.D

Acq: 10 Mar 2020 11:30

Instrument :

MSVOA_L

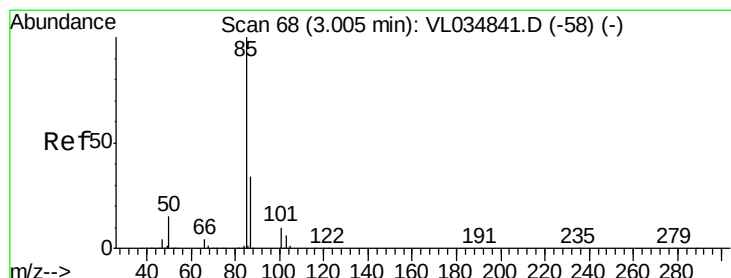
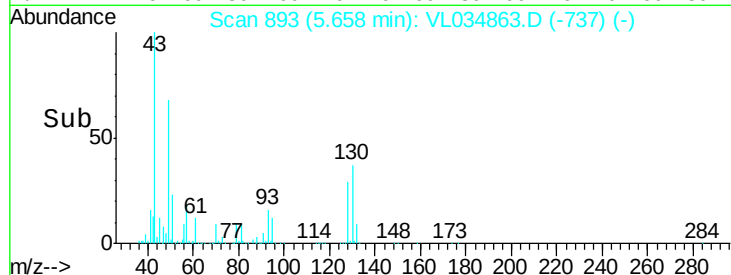
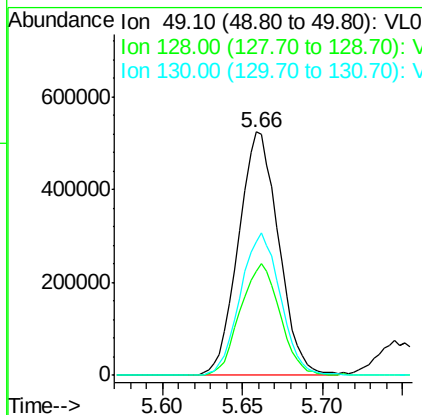
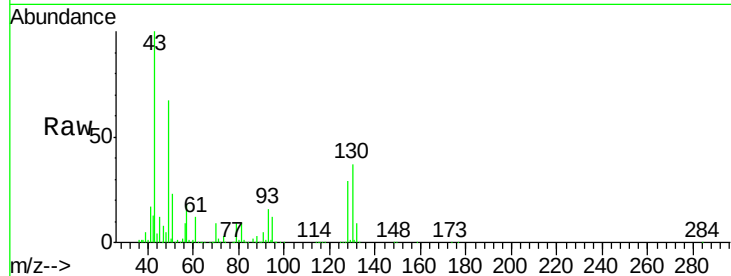
ClientSampleId :

VSTDCCC010

Tot Ion:	49	Resp:	898756
Ion	Ratio	Lower	Upper
49	100		
128	45.8	23.4	70.3
130	58.9	30.0	90.0

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#2

Dichlorodifluoromethane

Concen: 11.821 ppbv

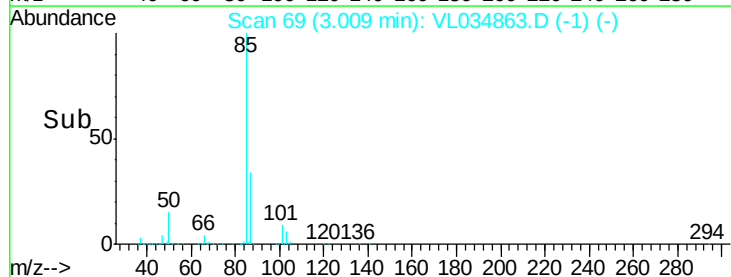
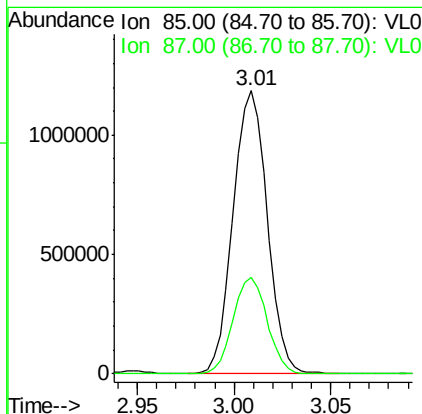
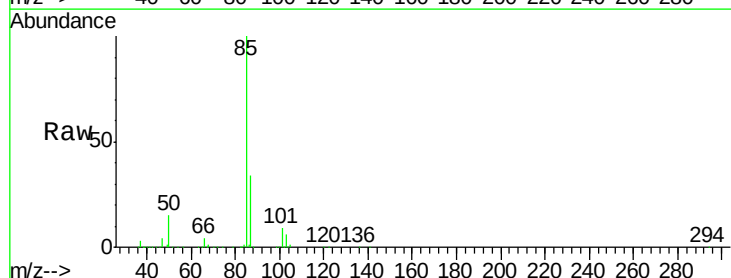
RT: 3.01 min Scan# 69

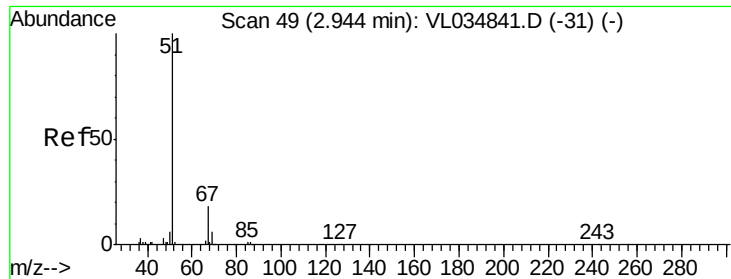
Delta R.T. 0.00 min

Lab File: VL034863.D

Acq: 10 Mar 2020 11:30

Tgt Ion:	85	Resp:	1454876
Ion	Ratio	Lower	Upper
85	100		
87	34.1	26.9	40.3





#3

Chlorodifluoromethane

Concen: 9.381 ppbv

RT: 2.95 min Scan# 50

Delta R.T. 0.00 min

Lab File: VL034863.D

Acq: 10 Mar 2020 11:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 51 Resp: 941839

Ion Ratio Lower Upper

51 100

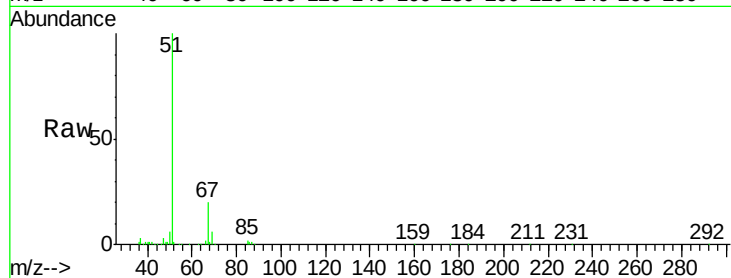
67 18.0 14.3 21.5

Manual Integrations

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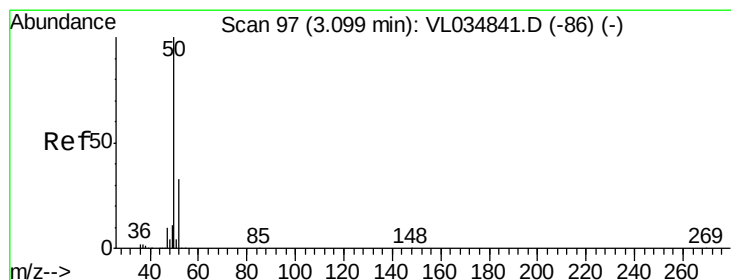
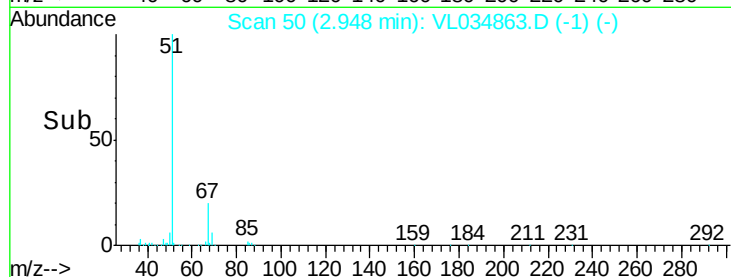
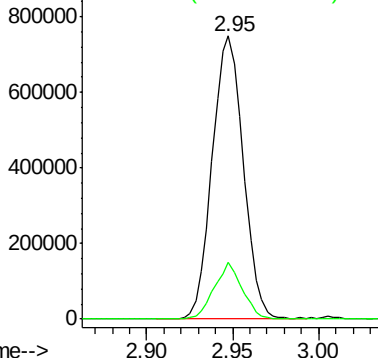
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.765 ppbv

RT: 3.10 min Scan# 97

Delta R.T. 0.00 min

Lab File: VL034863.D

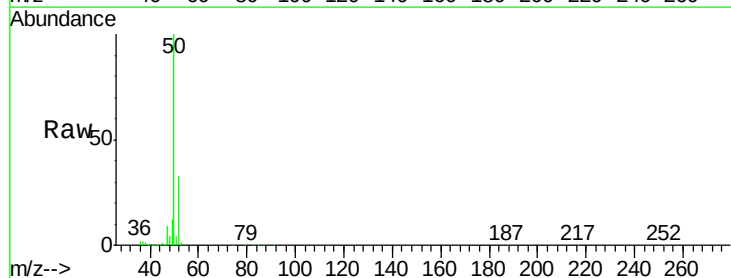
Acq: 10 Mar 2020 11:30

Tgt Ion: 50 Resp: 554091

Ion Ratio Lower Upper

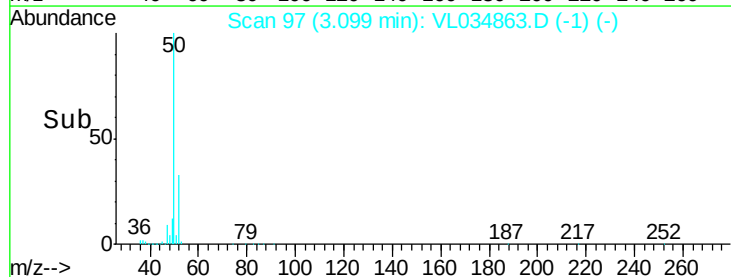
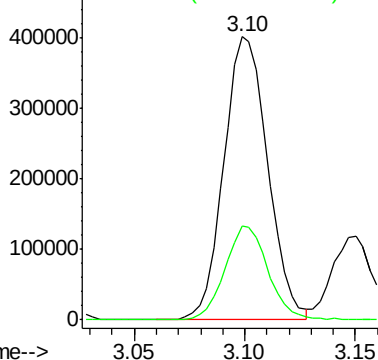
50 100

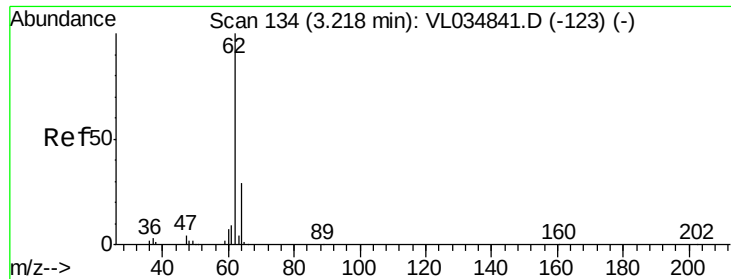
52 33.2 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.444 ppbv

RT: 3.22 min Scan# 134

Delta R.T. 0.00 min

Lab File: VL034863.D

Acq: 10 Mar 2020 11:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 515210

Ion Ratio Lower Upper

62 100

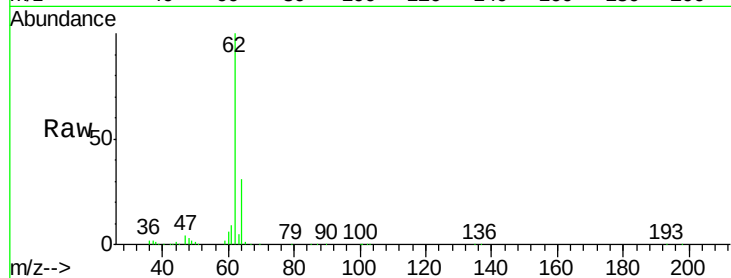
64 30.9 23.0 34.4

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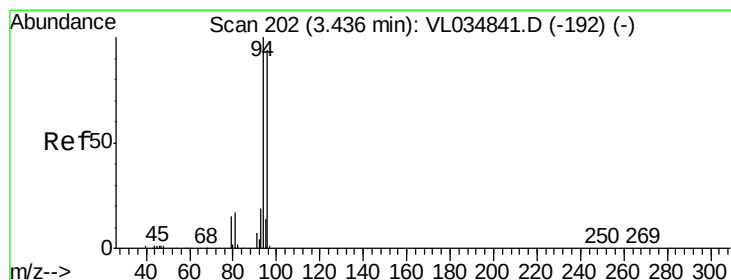
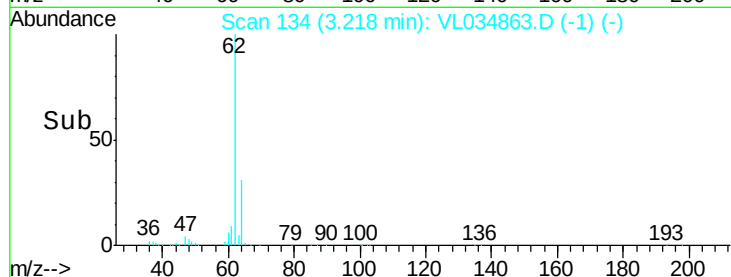
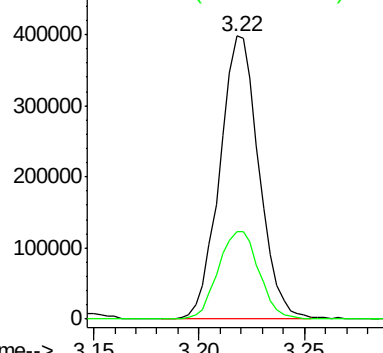
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.756 ppbv

RT: 3.44 min Scan# 203

Delta R.T. 0.00 min

Lab File: VL034863.D

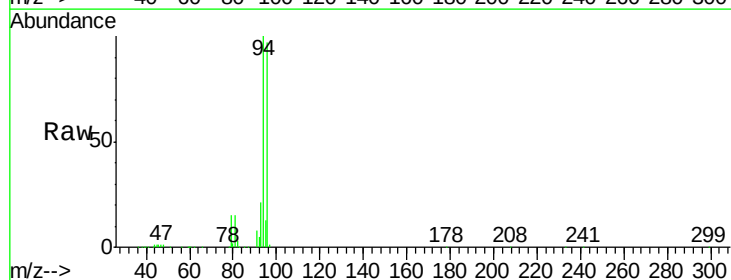
Acq: 10 Mar 2020 11:30

Tgt Ion: 94 Resp: 309816

Ion Ratio Lower Upper

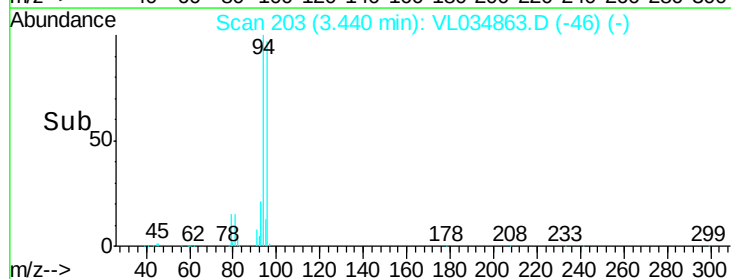
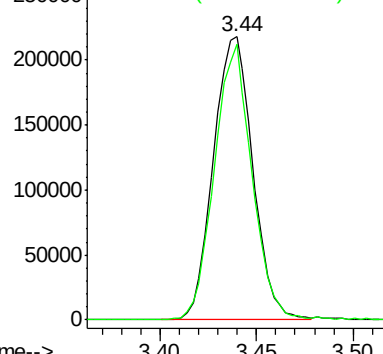
94 100

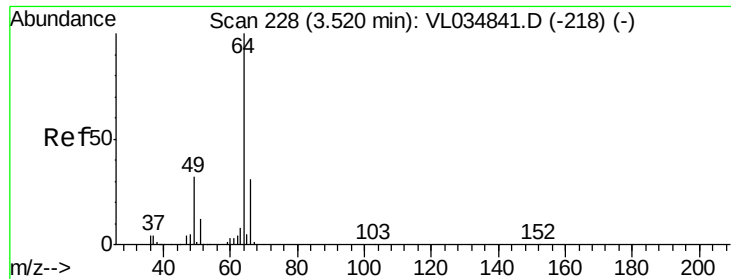
96 97.4 75.5 113.3



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.551 ppbv

RT: 3.52 min Scan# 229

Delta R.T. 0.00 min

Lab File: VL034863.D

Acq: 10 Mar 2020 11:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 188149

Ion Ratio Lower Upper

64 100

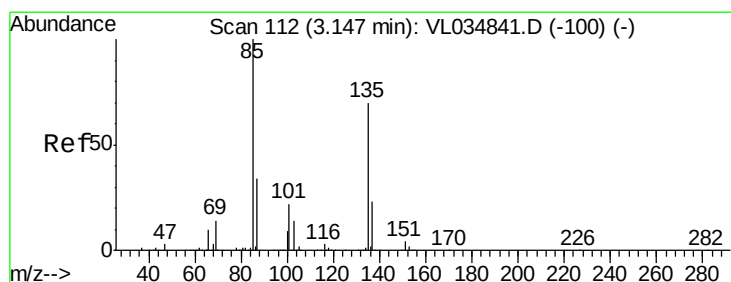
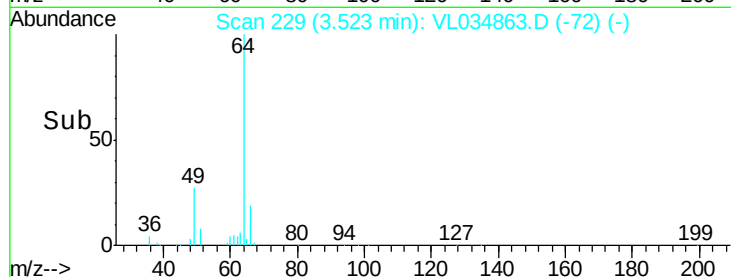
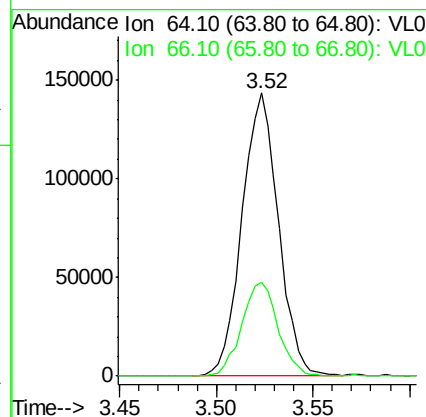
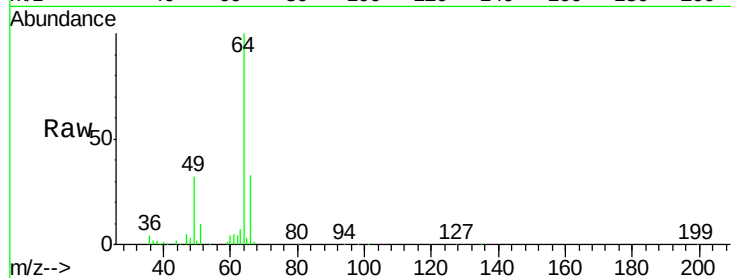
66 33.2 24.8 37.2

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#8

Dichlorotetrafluoroethane

Concen: 9.136 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL034863.D

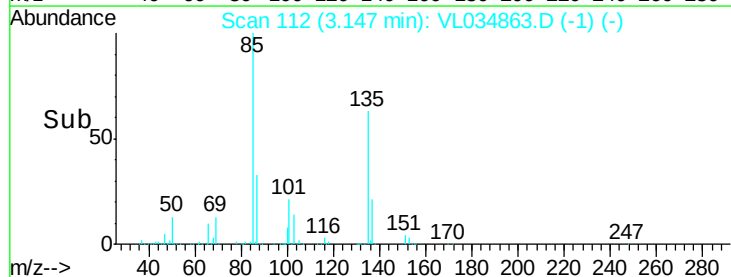
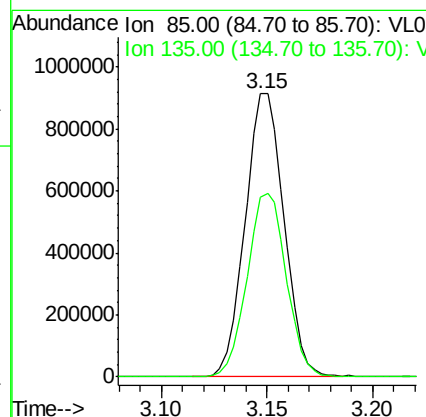
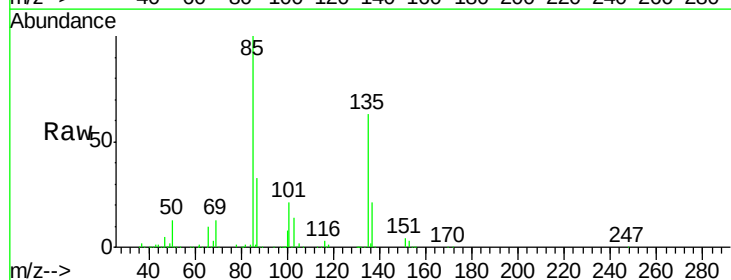
Acq: 10 Mar 2020 11:30

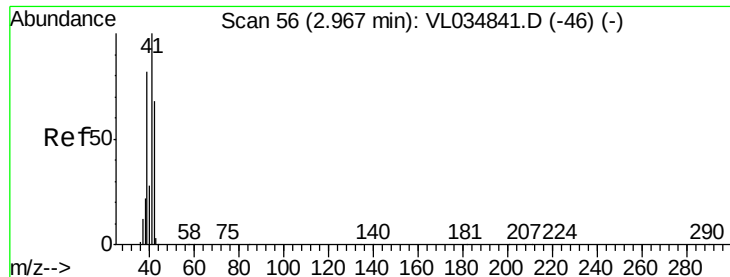
Tgt Ion: 85 Resp: 1167682

Ion Ratio Lower Upper

85 100

135 65.6 54.3 81.5





#9

Propene

Concen: 9.096 ppbv

RT: 2.97 min Scan# 57

Delta R.T. 0.00 min

Lab File: VL034863.D

Acq: 10 Mar 2020 11:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 435990

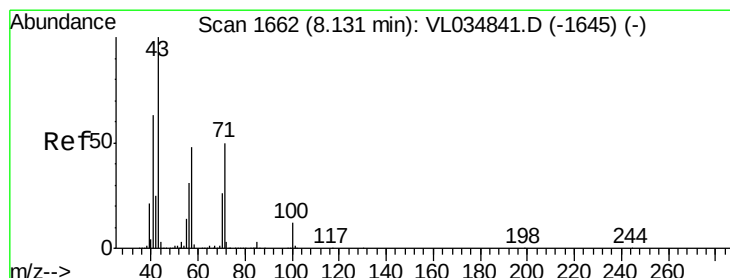
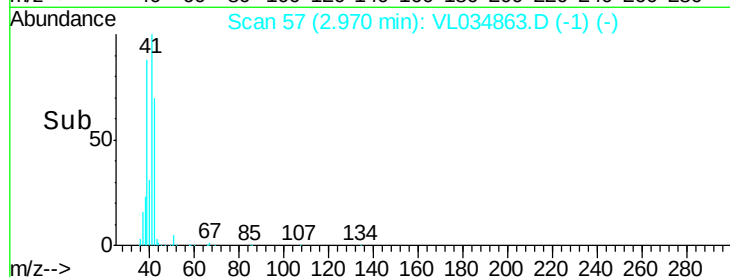
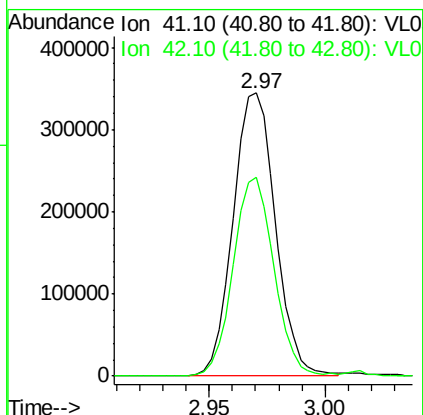
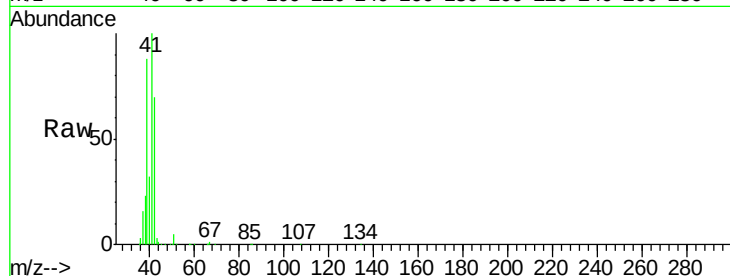
Ion Ratio Lower Upper

41 100

42 68.8 55.2 82.8

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#10

Heptane

Concen: 9.658 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. 0.00 min

Lab File: VL034863.D

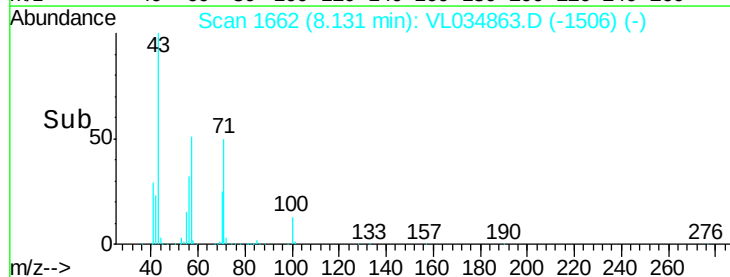
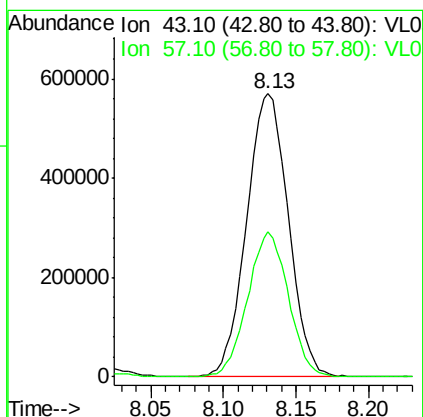
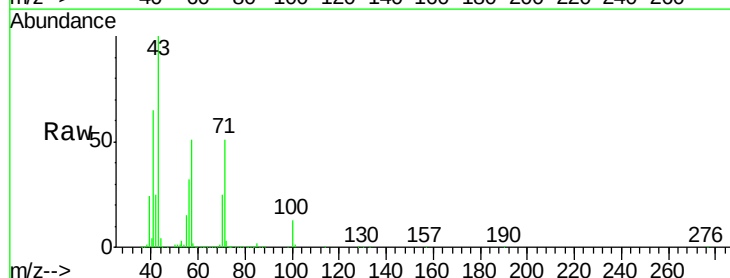
Acq: 10 Mar 2020 11:30

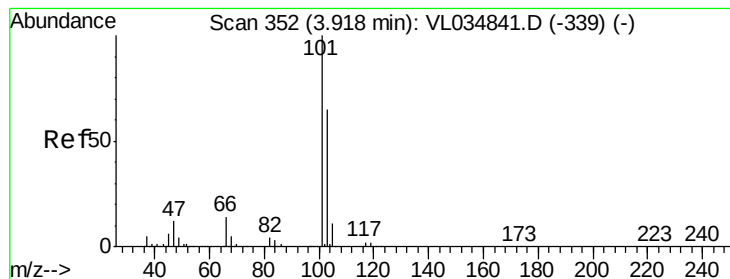
Tgt Ion: 43 Resp: 1139334

Ion Ratio Lower Upper

43 100

57 50.1 39.7 59.5





#11

Trichlorofluoromethane

Concen: 9.106 ppbv

RT: 3.92 min Scan# 352

Delta R.T. 0.00 min

Lab File: VL034863.D

Acq: 10 Mar 2020 11:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:101 Resp: 1192266

Ion Ratio Lower Upper

101 100

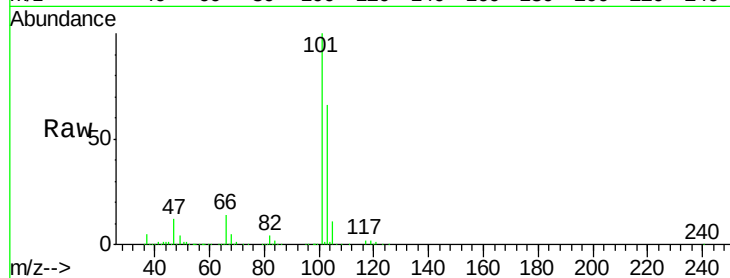
103 65.8 51.8 77.8

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.92

800000

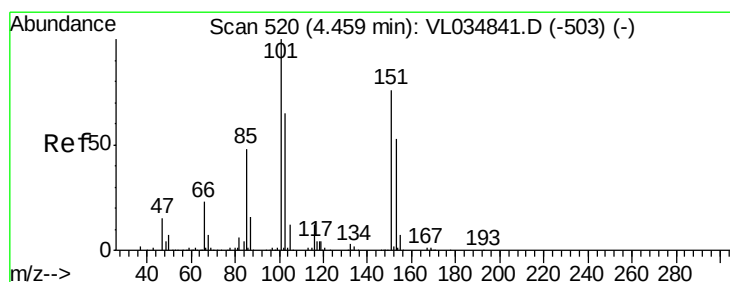
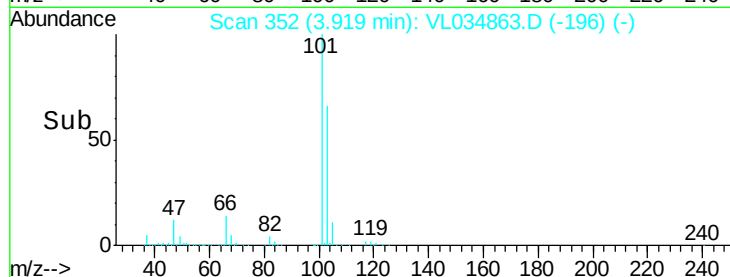
600000

400000

200000

0

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.210 ppbv

RT: 4.46 min Scan# 520

Delta R.T. 0.00 min

Lab File: VL034863.D

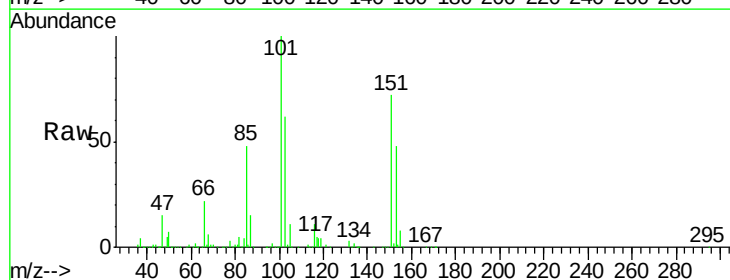
Acq: 10 Mar 2020 11:30

Tgt Ion:101 Resp: 844024

Ion Ratio Lower Upper

101 100

151 75.0 60.8 91.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

4.46

500000

400000

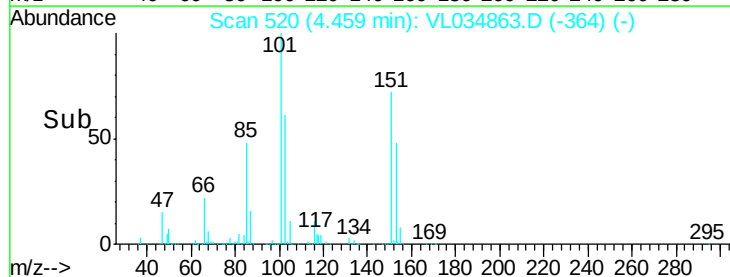
300000

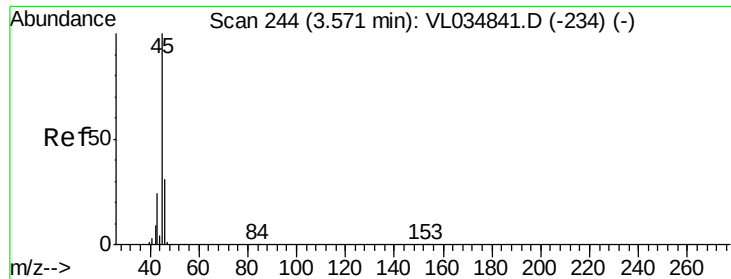
200000

100000

0

Time-->





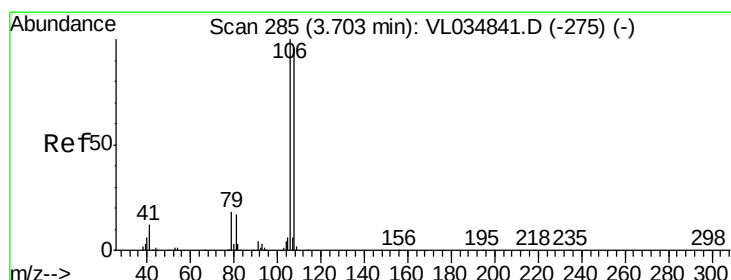
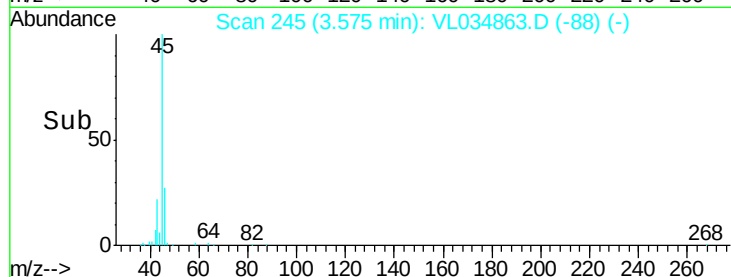
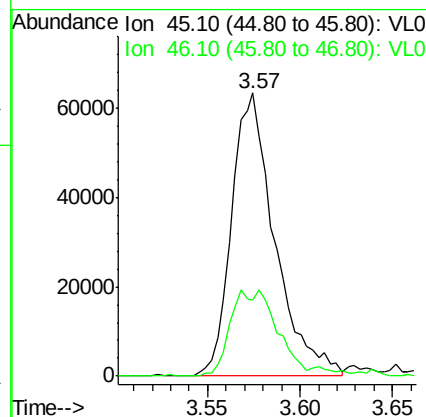
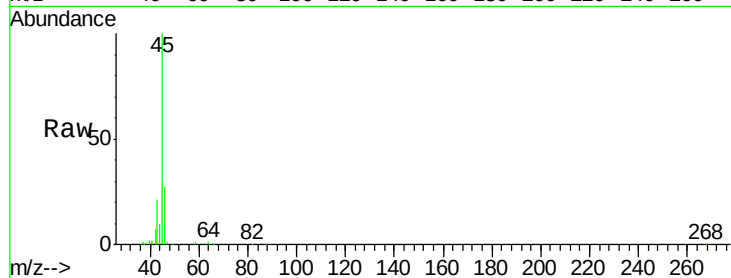
#13
Ethanol
Concen: 7.057 ppbv m
RT: 3.57 min Scan# 245
Delta R.T. 0.00 min
Lab File: VL034863.D
Acq: 10 Mar 2020 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 45 Resp: 102839
Ion Ratio Lower Upper
45 100
46 34.5 16.0 64.0

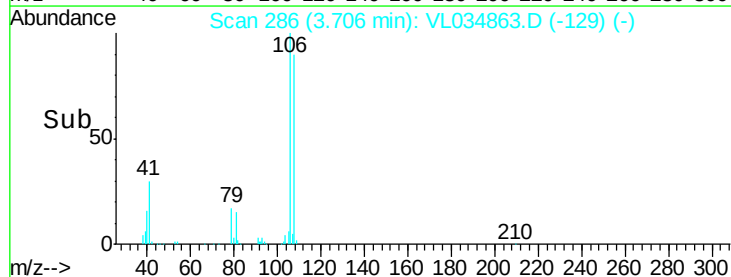
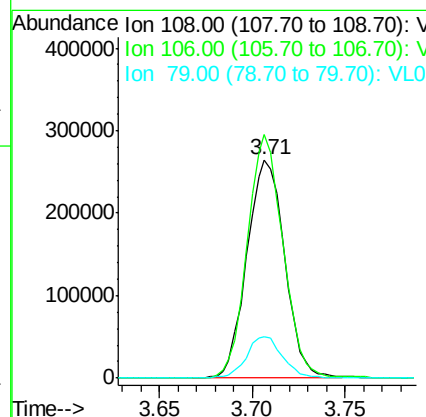
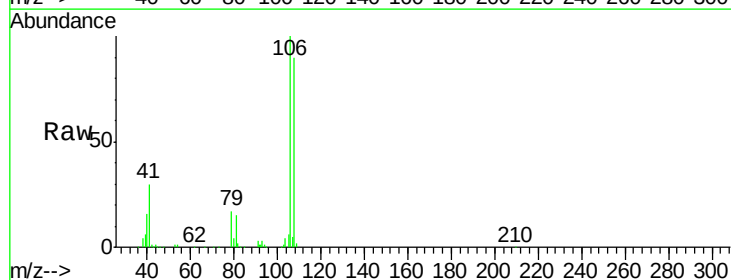
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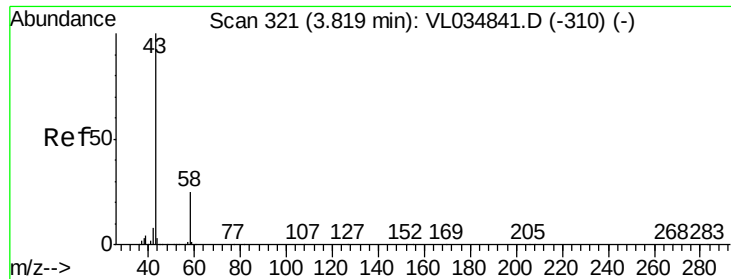
MMDadoda
3/11/2020 3:17:10 PM



#14
Bromoethene
Concen: 9.434 ppbv
RT: 3.71 min Scan# 286
Delta R.T. 0.00 min
Lab File: VL034863.D
Acq: 10 Mar 2020 11:30

Tgt Ion: 108 Resp: 373353
Ion Ratio Lower Upper
108 100
106 106.0 85.1 127.7
79 18.6 14.7 22.1





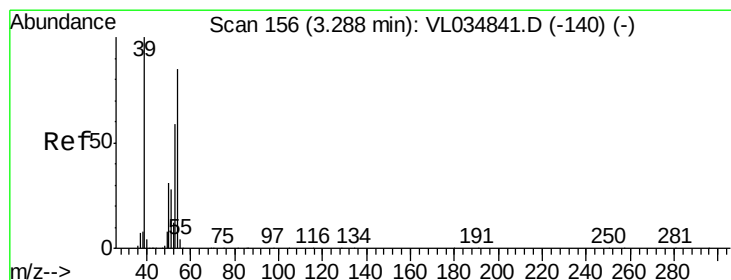
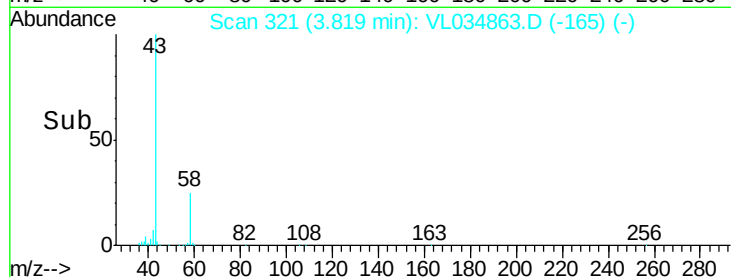
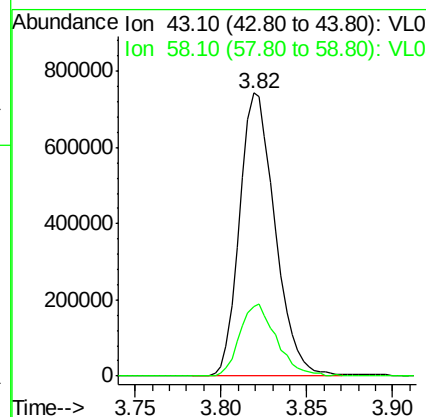
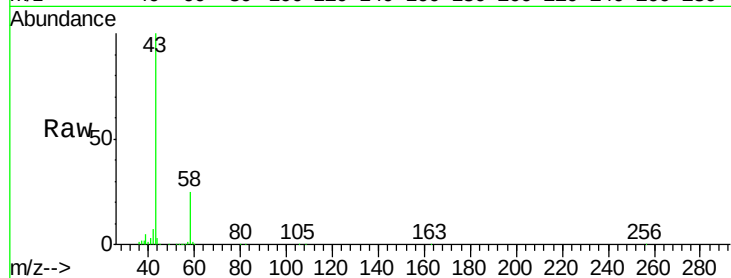
#15
Acetone
Concen: 9.202 ppbv
RT: 3.82 min Scan# 321
Delta R.T. 0.00 min
Lab File: VL034863.D
Acq: 10 Mar 2020 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 1071939
Ion Ratio Lower Upper
43 100
58 26.5 21.0 31.6

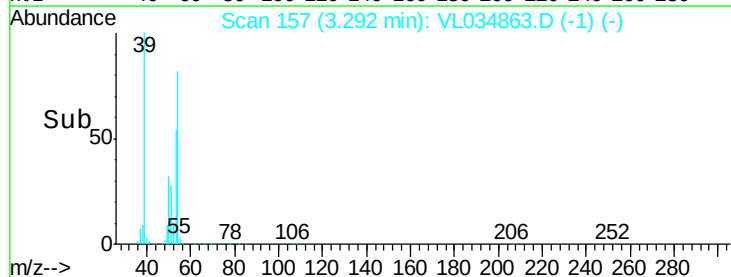
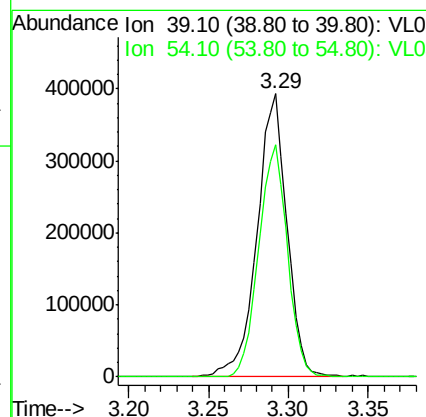
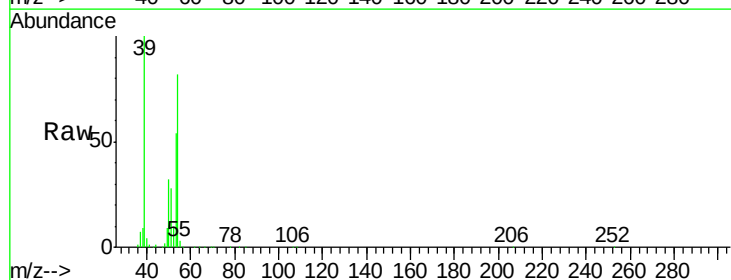
Manual Integrations
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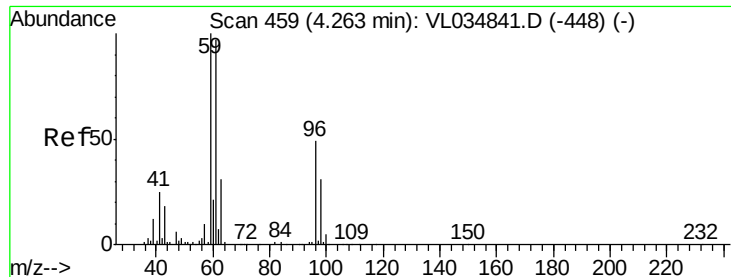
MMDadoda
3/11/2020 3:17:10 PM



#16
1,3-Butadiene
Concen: 9.584 ppbv
RT: 3.29 min Scan# 157
Delta R.T. 0.00 min
Lab File: VL034863.D
Acq: 10 Mar 2020 11:30

Tgt Ion: 39 Resp: 504864
Ion Ratio Lower Upper
39 100
54 78.8 65.0 97.6





#17

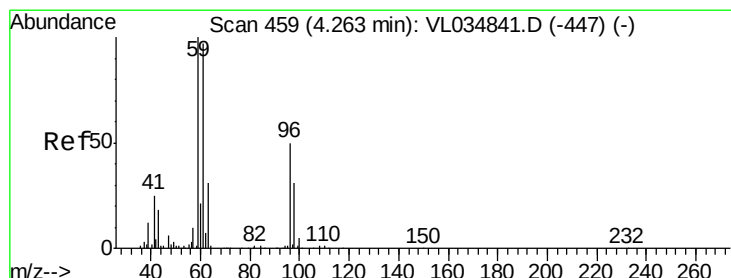
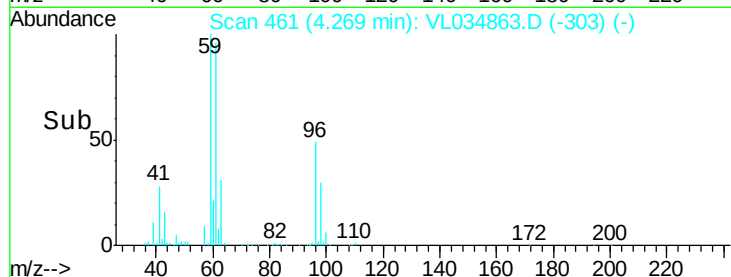
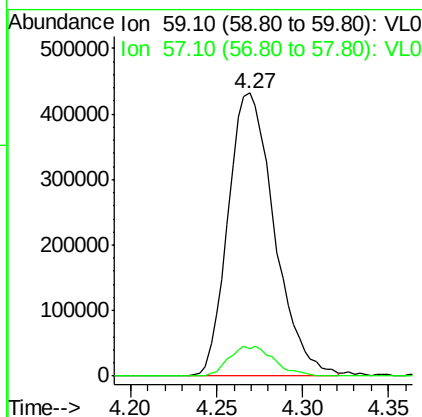
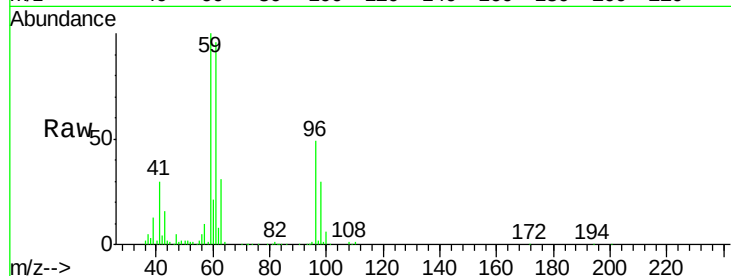
tert-Butyl alcohol
Concen: 7.214 ppbv
RT: 4.27 min Scan# 461
Delta R.T. 0.01 min
Lab File: VL034863.D
Acq: 10 Mar 2020 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.3	12.5

Manual Integrations
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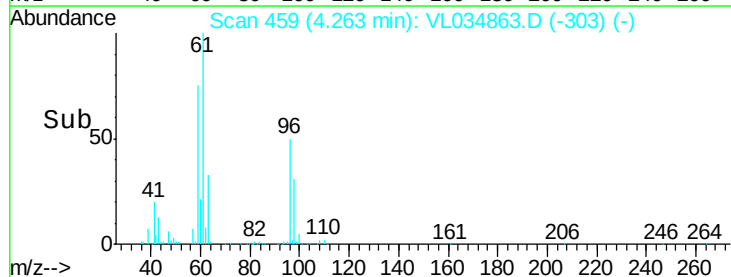
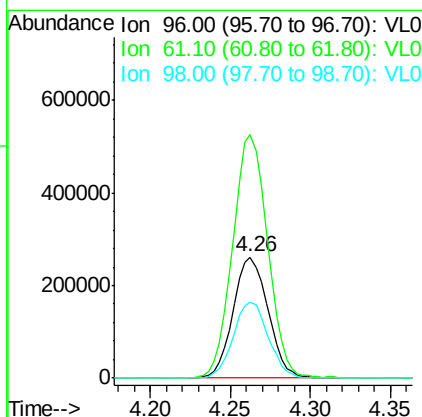
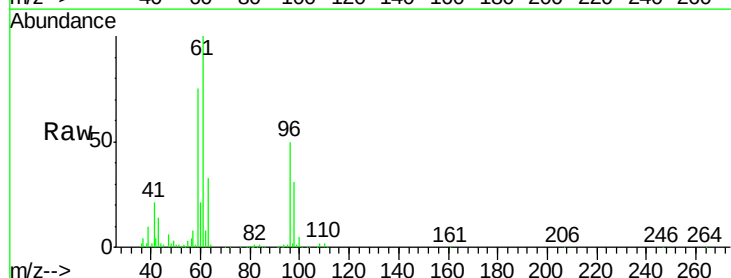
MMDadoda
3/11/2020 3:17:10 PM

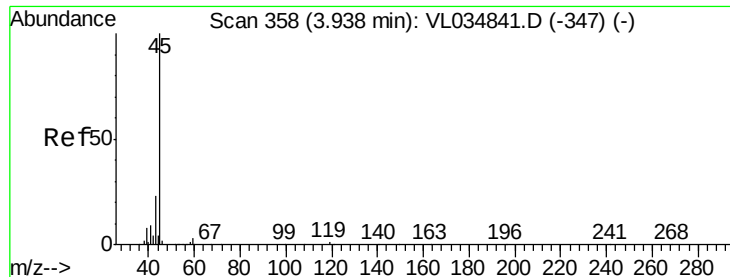


#18

1,1-Dichloroethene
Concen: 9.584 ppbv
RT: 4.26 min Scan# 459
Delta R.T. 0.00 min
Lab File: VL034863.D
Acq: 10 Mar 2020 11:30

Tgt Ion	Ratio	Lower	Upper
96	100		
61	200.6	157.3	235.9
98	62.7	50.2	75.4





#19

Isopropyl Alcohol

Concen: 7.414 ppbv

RT: 3.94 min Scan# 359

Delta R.T. 0.00 min

Lab File: VL034863.D

Acq: 10 Mar 2020 11:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 545392

Ion Ratio Lower Upper

45 100

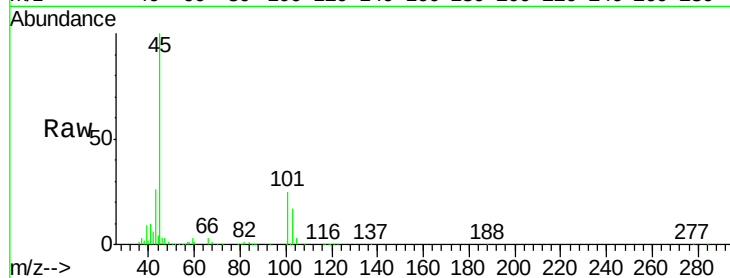
58 2.2 30.5 45.7#

Manual Integrations

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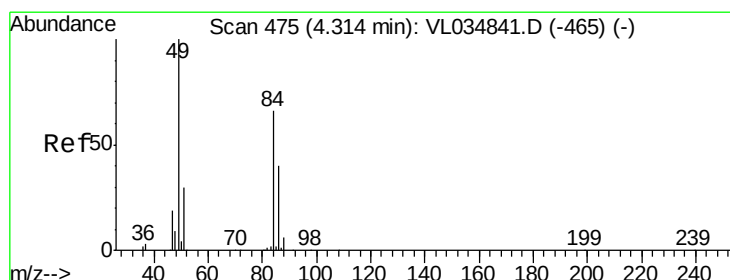
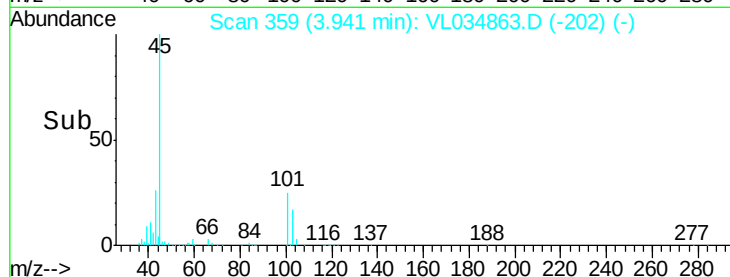
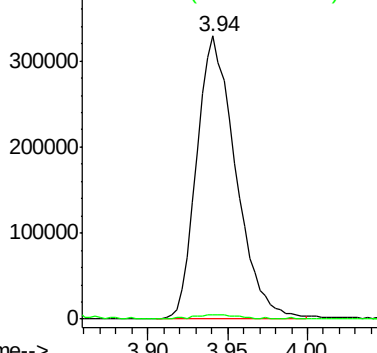
MMDadoda

3/11/2020 3:17:10 PM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 8.950 ppbv

RT: 4.32 min Scan# 477

Delta R.T. 0.01 min

Lab File: VL034863.D

Acq: 10 Mar 2020 11:30

Tgt Ion: 84 Resp: 329638

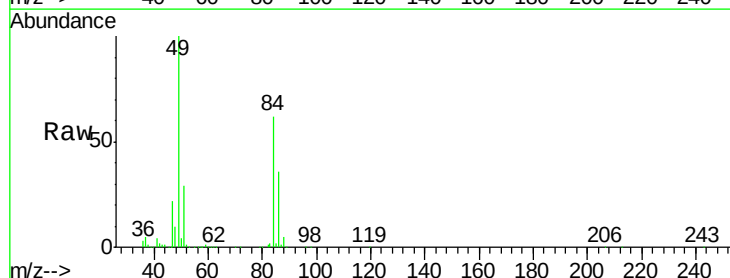
Ion Ratio Lower Upper

84 100

49 159.0 121.5 182.3

51 47.5 36.6 55.0

86 58.8 48.2 72.2

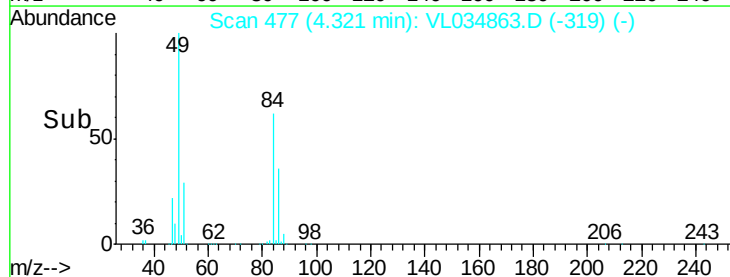
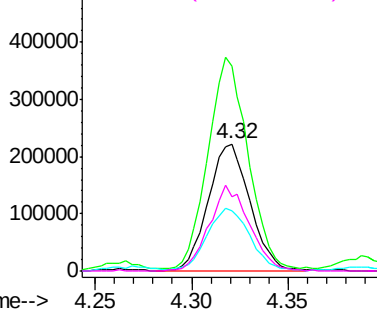


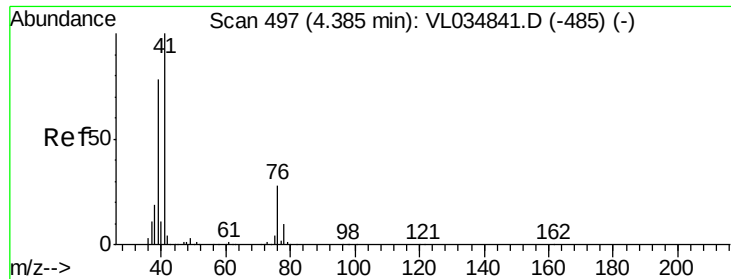
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





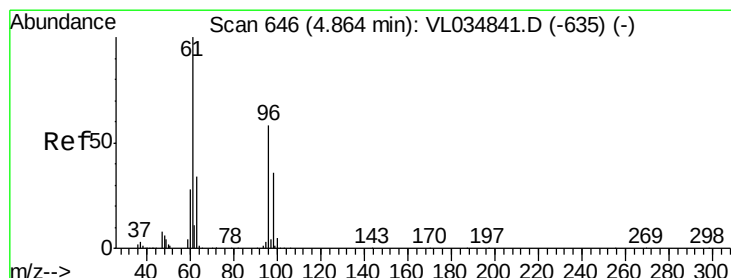
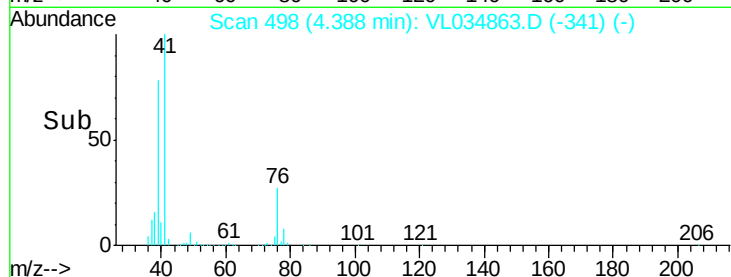
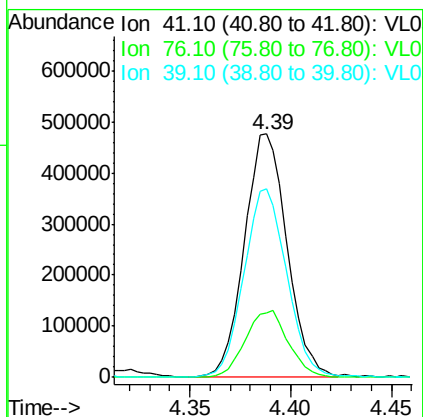
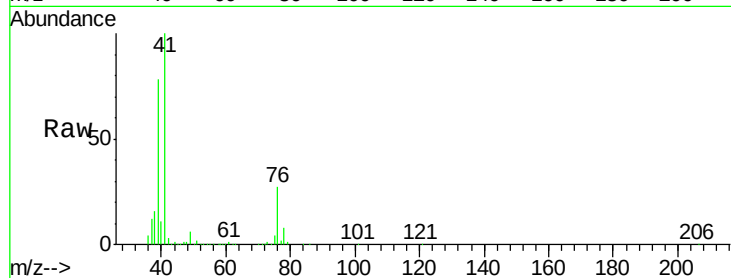
#21
Allvl Chloride
Concen: 9.394 ppbv
RT: 4.39 min Scan# 498
Delta R.T. 0.00 min
Lab File: VL034863.D
Acq: 10 Mar 2020 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.0	22.2	33.2
39	78.1	62.6	93.8

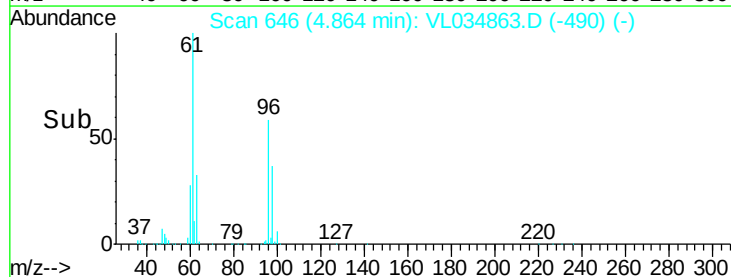
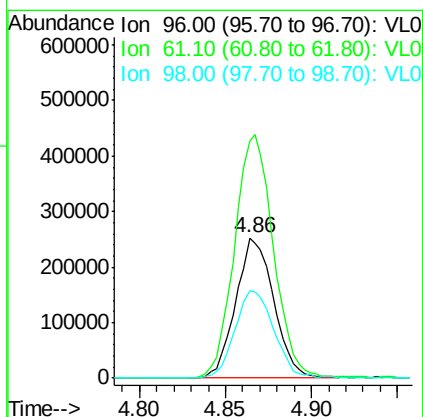
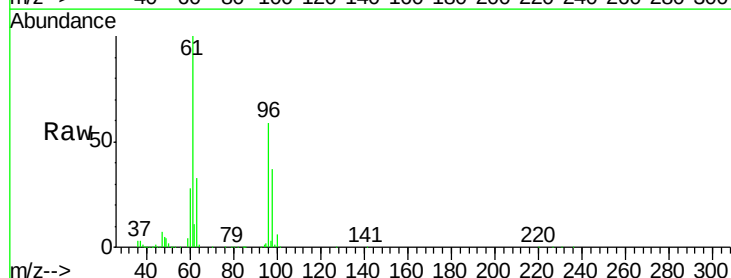
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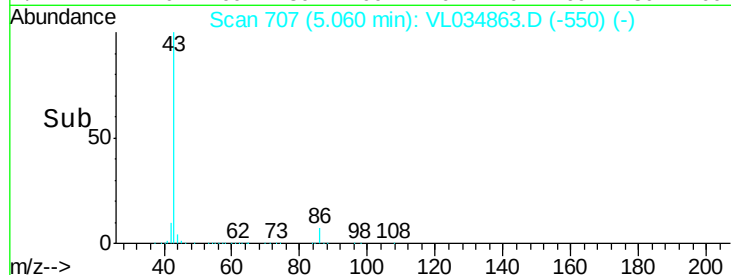
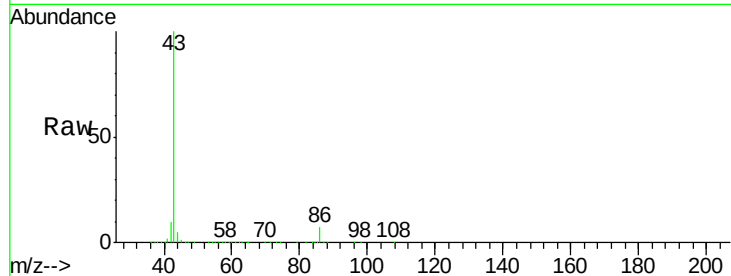
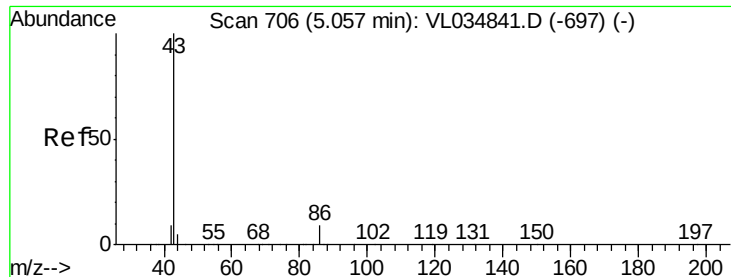
MMDadoda
3/11/2020 3:17:10 PM



#22
trans-1,2-Dichloroethene
Concen: 9.422 ppbv
RT: 4.86 min Scan# 646
Delta R.T. 0.00 min
Lab File: VL034863.D
Acq: 10 Mar 2020 11:30

Tgt Ion	Ratio	Lower	Upper
96	100		
61	169.0	139.0	208.6
98	62.1	50.3	75.5





#23

Vinyl Acetate

Concen: 9.687 ppbv

RT: 5.06 min Scan# 707

Delta R.T. 0.00 min

Lab File: VL034863.D

Acq: 10 Mar 2020 11:30

Tot Ion: 43 Resp: 1666935

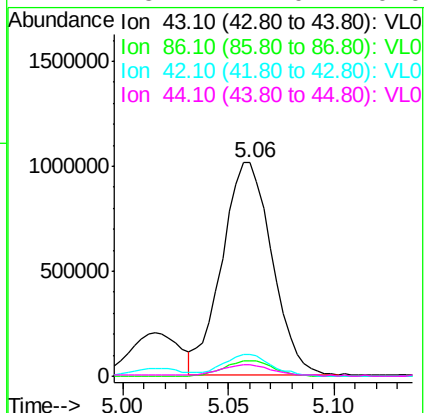
Ion Ratio Lower Upper

43 100

86 7.5 6.3 9.5

42 10.4 7.8 11.8

44 5.2 4.0 6.0



Instrument :

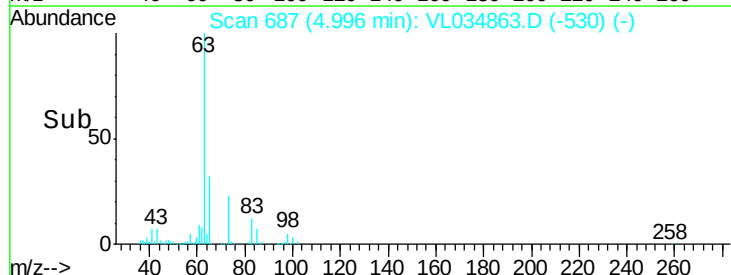
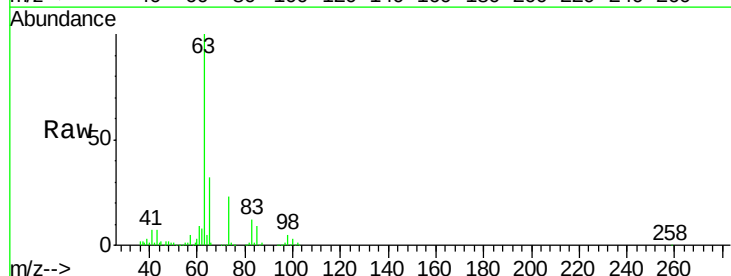
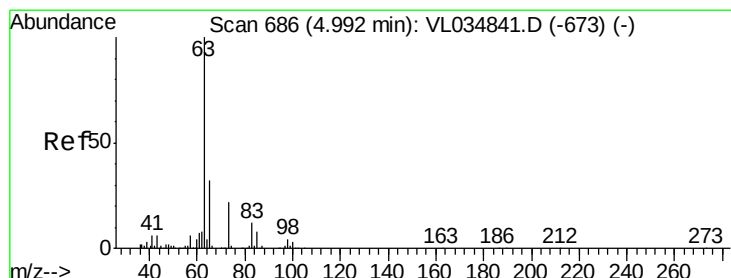
MSVOA_L

ClientSampleId :

VSTDCCC010

Manual Integrations
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MMDadoda
3/11/2020 3:17:10 PM



#24

1,1-Dichloroethane

Concen: 9.423 ppbv

RT: 5.00 min Scan# 687

Delta R.T. 0.00 min

Lab File: VL034863.D

Acq: 10 Mar 2020 11:30

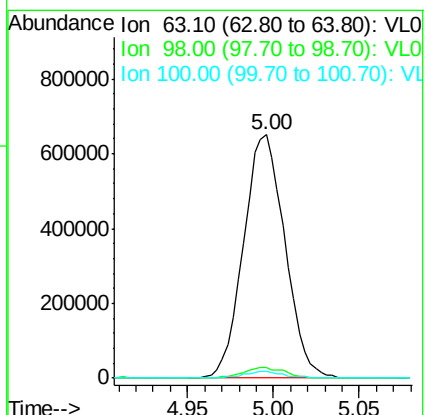
Tgt Ion: 63 Resp: 1087017

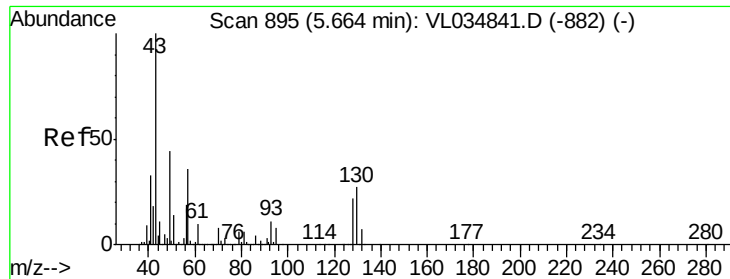
Ion Ratio Lower Upper

63 100

98 4.6 2.0 5.8

100 2.9 1.4 4.0





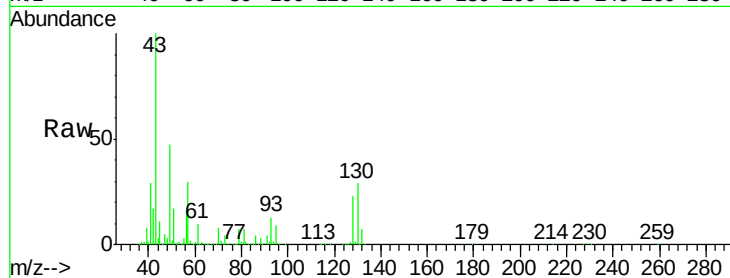
#25
Ethyl Acetate
Concen: 9.224 ppbv
RT: 5.66 min Scan# 895
Delta R.T. 0.00 min
Lab File: VL034863.D
Acq: 10 Mar 2020 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

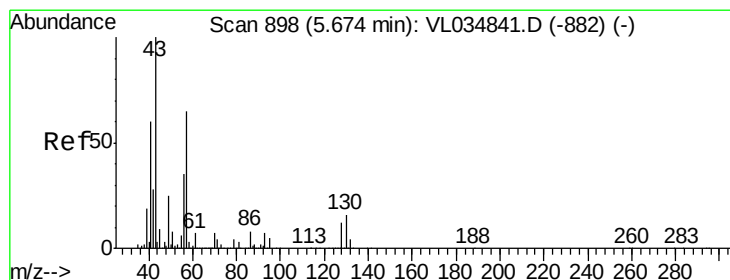
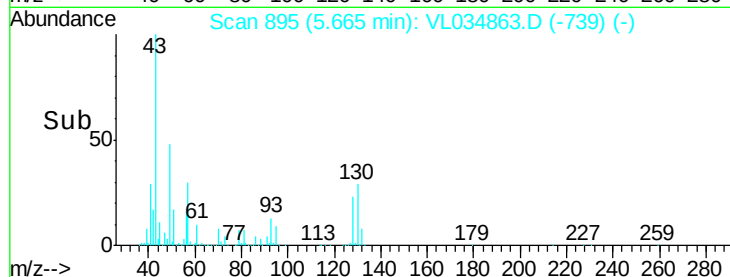
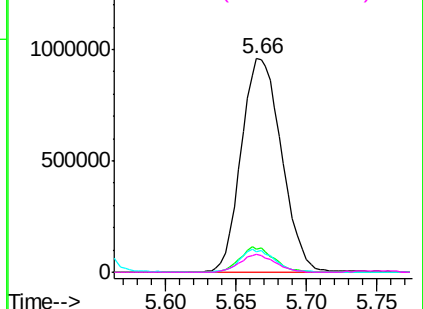
Tot Ion	43	Resp	1914352
Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.2	12.2
61	9.6	7.8	11.6
70	7.3	5.8	8.8

Manual Integrations
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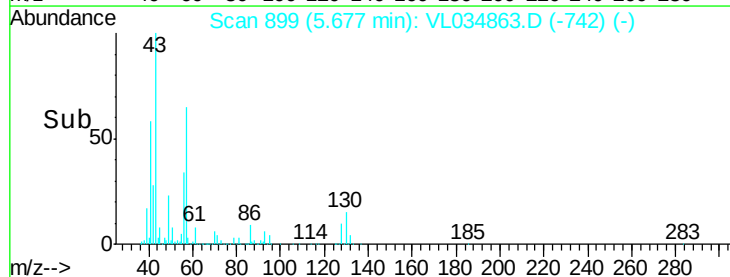
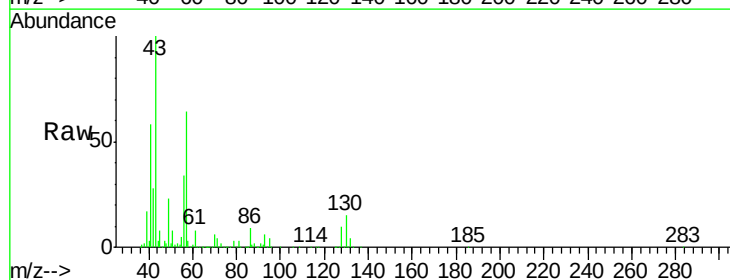
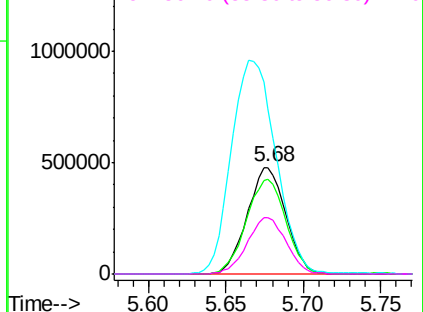
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

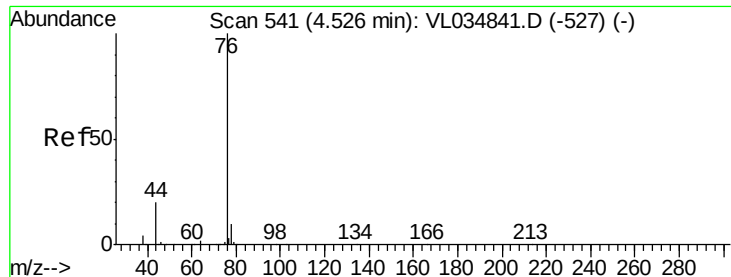


#26
Hexane
Concen: 9.274 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.00 min
Lab File: VL034863.D
Acq: 10 Mar 2020 11:30

Tgt Ion	57	Resp	828797
Ion	Ratio	Lower	Upper
57	100		
41	91.6	72.6	109.0
43	233.0	183.8	275.6
56	53.8	41.9	62.9

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: 9.670 ppbv

RT: 4.53 min Scan# 541

Delta R.T. 0.00 min

Lab File: VL034863.D

Acq: 10 Mar 2020 11:30

Instrument :

MSVOA_L

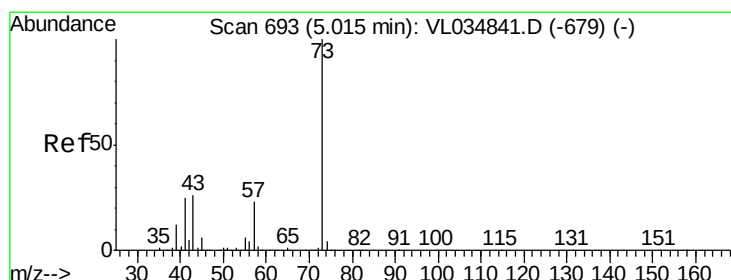
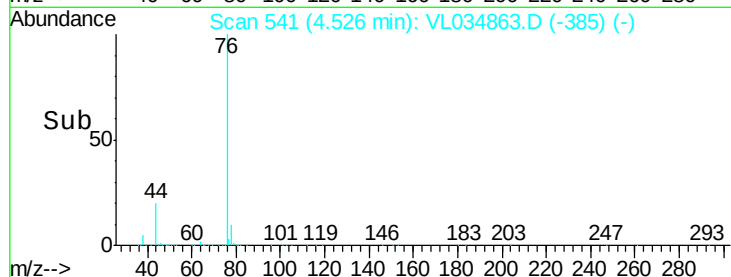
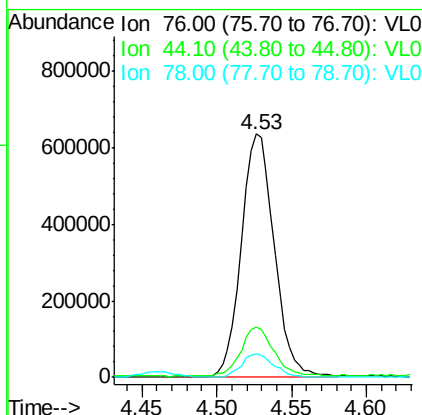
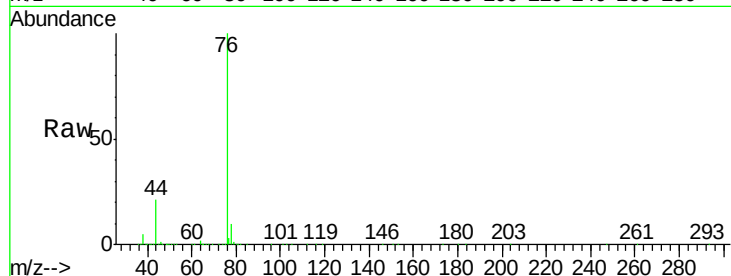
ClientSampleId :

VSTDCCC010

Tot Ion:	76	Resp:	980622
Ion	Ratio	Lower	Upper
76	100		
44	20.6	16.2	24.2
78	9.7	7.8	11.6

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 9.057 ppbv

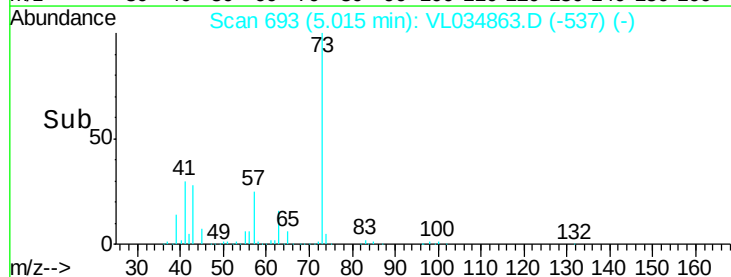
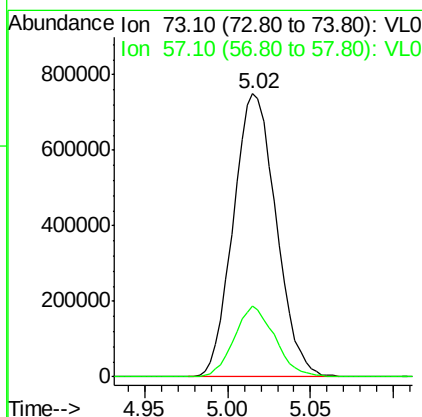
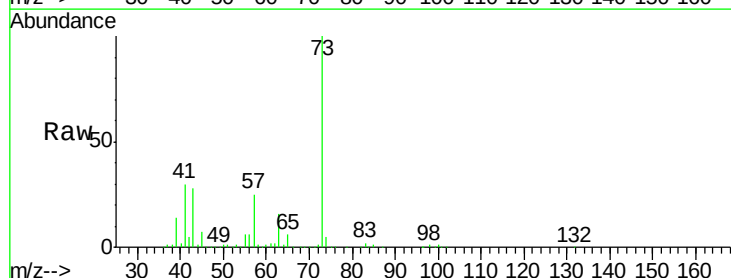
RT: 5.02 min Scan# 693

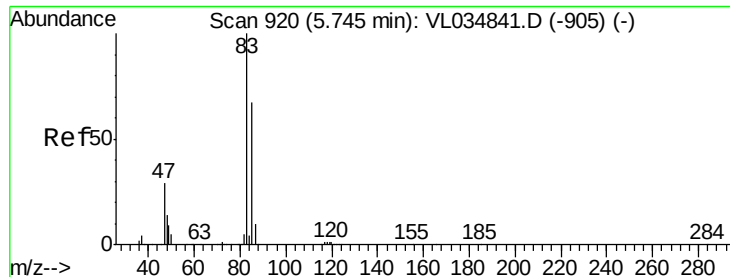
Delta R.T. 0.00 min

Lab File: VL034863.D

Acq: 10 Mar 2020 11:30

Tgt Ion:	73	Resp:	1346695
Ion	Ratio	Lower	Upper
73	100		
57	23.9	18.3	27.5





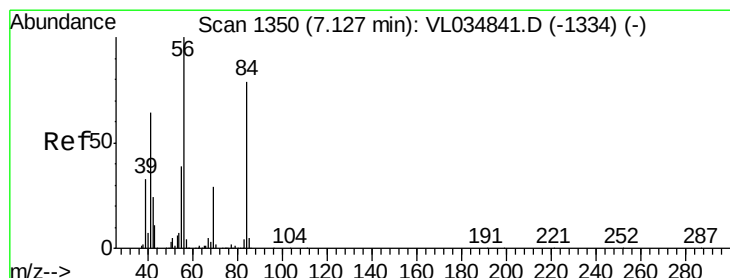
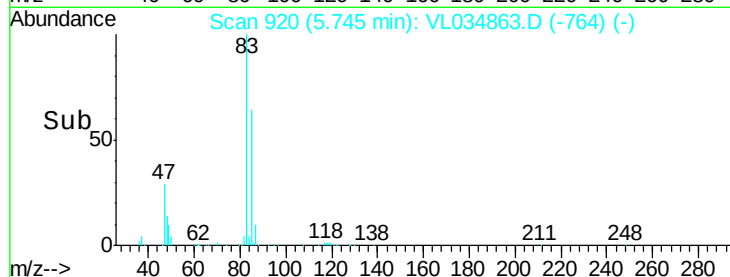
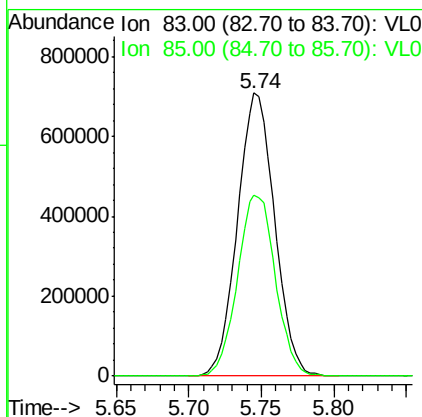
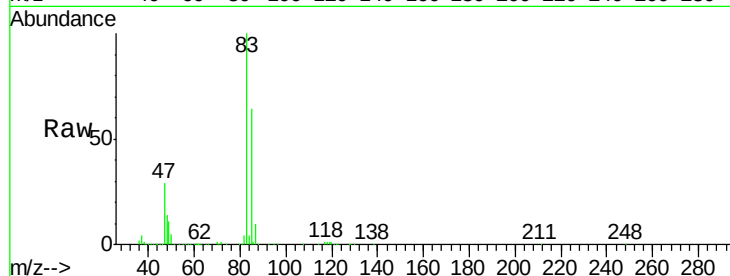
#29
Chloroform
Concen: 9.266 ppbv
RT: 5.74 min Scan# 920
Delta R.T. 0.00 min
Lab File: VL034863.D
Acq: 10 Mar 2020 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 1263403
Ion Ratio Lower Upper
83 100
85 64.1 53.8 80.6

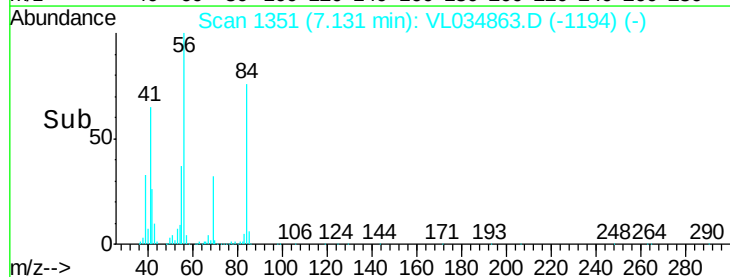
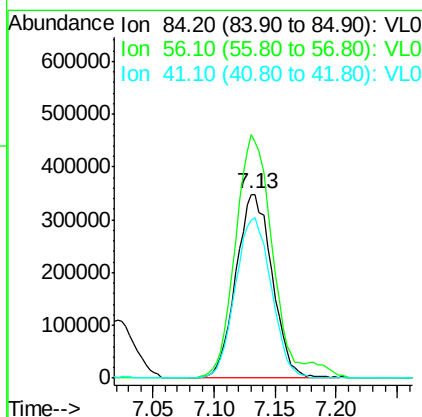
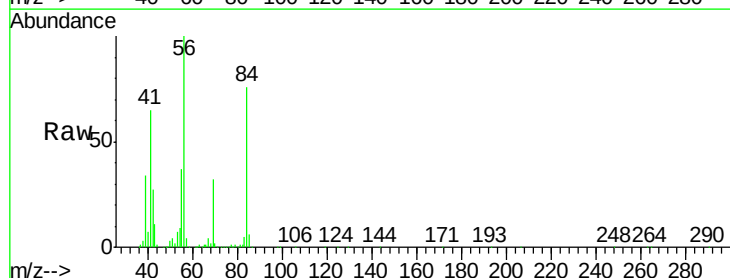
Manual Integrations
APPROVED

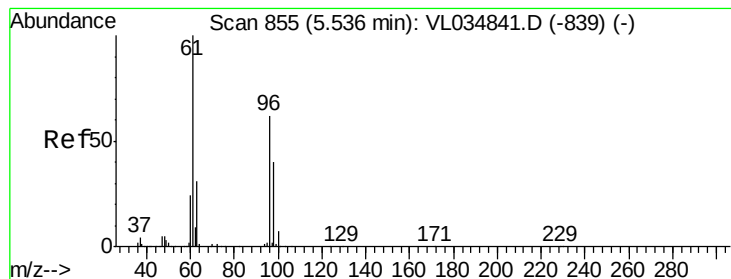
MMDadoda
3/11/2020 3:17:10 PM



#30
Cyclohexane
Concen: 9.535 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. 0.00 min
Lab File: VL034863.D
Acq: 10 Mar 2020 11:30

Tgt Ion: 84 Resp: 710945
Ion Ratio Lower Upper
84 100
56 138.6 110.5 165.7
41 87.3 68.2 102.4





#31

cis-1,2-Dichloroethene

Concen: 9.557 ppbv

RT: 5.54 min Scan# 856

Delta R.T. 0.00 min

Lab File: VL034863.D

Acq: 10 Mar 2020 11:30

Instrument :

MSVOA_L

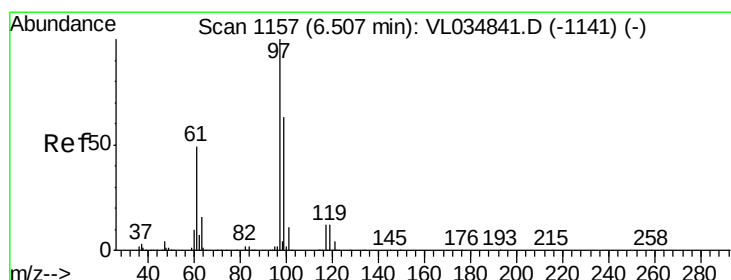
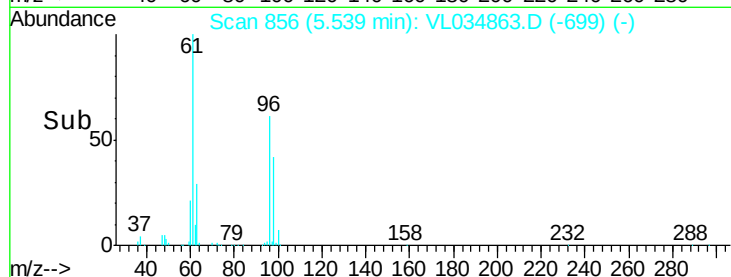
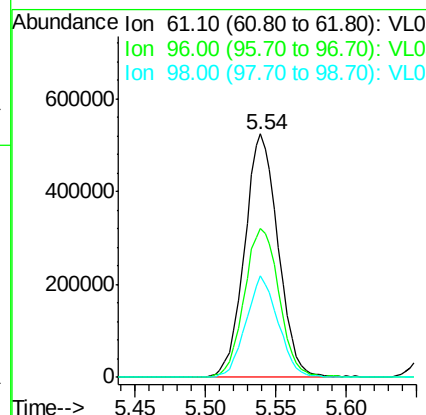
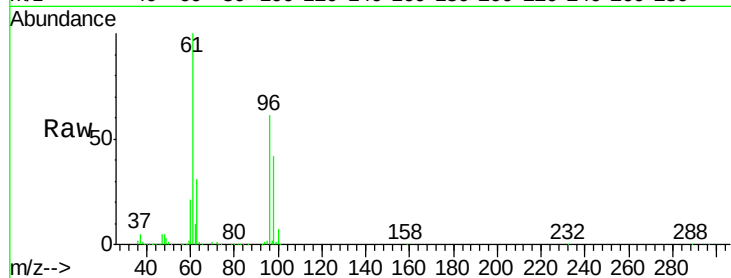
ClientSampleId :

VSTDCCC010

Tot Ion:	61	Resp:	873443
Ion Ratio	Lower	Upper	
61	100		
96	61.3	49.8	74.8
98	41.7	32.2	48.4

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 9.498 ppbv

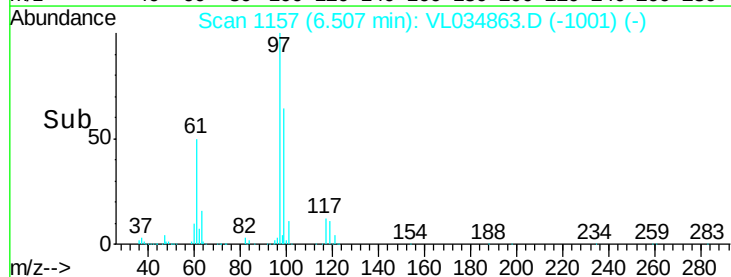
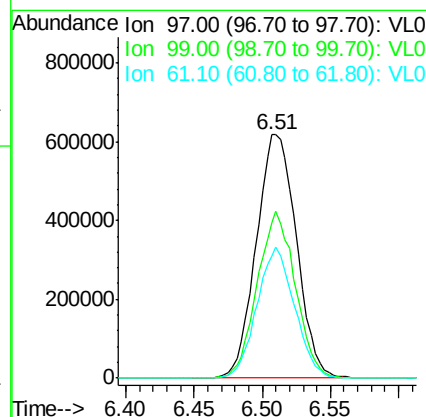
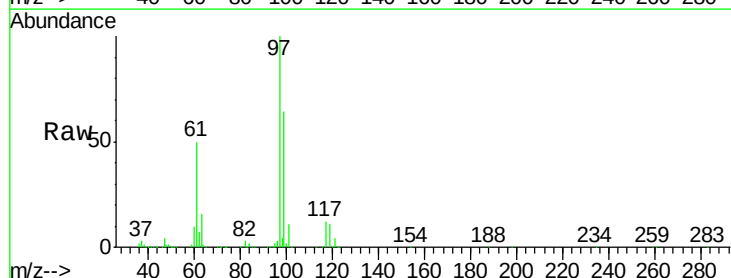
RT: 6.51 min Scan# 1157

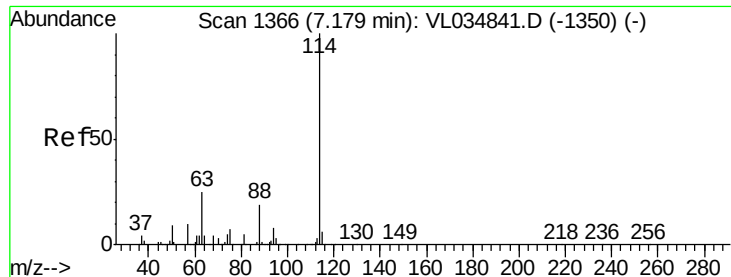
Delta R.T. 0.00 min

Lab File: VL034863.D

Acq: 10 Mar 2020 11:30

Tgt Ion:	97	Resp:	1261854
Ion Ratio	Lower	Upper	
97	100		
99	65.0	51.1	76.7
61	50.5	39.7	59.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. 0.00 min

Lab File: VL034863.D

Acq: 10 Mar 2020 11:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:114 Resp: 2036199

Ion Ratio Lower Upper

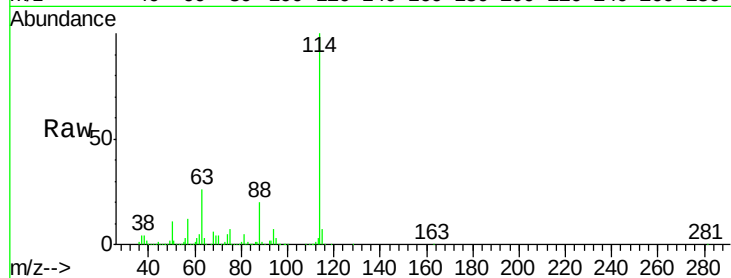
114 100

63 26.9 20.6 31.0

88 19.1 15.0 22.6

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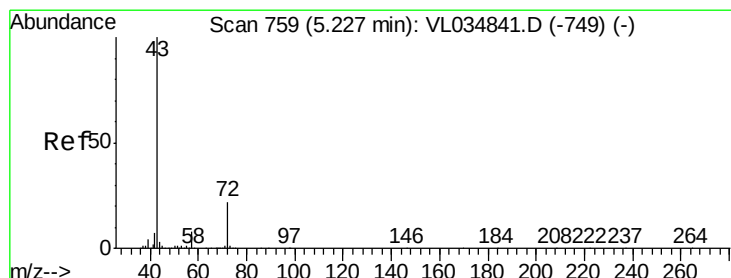
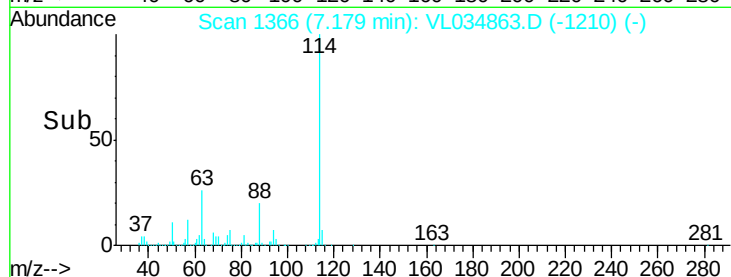
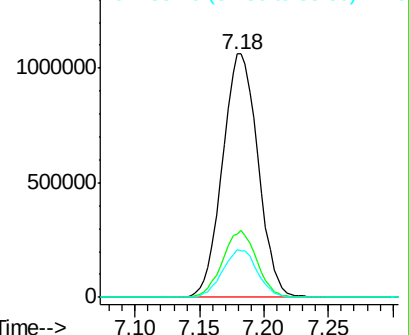
MMDadoda
3/11/2020 3:17:10 PM



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 9.462 ppbv

RT: 5.23 min Scan# 760

Delta R.T. 0.00 min

Lab File: VL034863.D

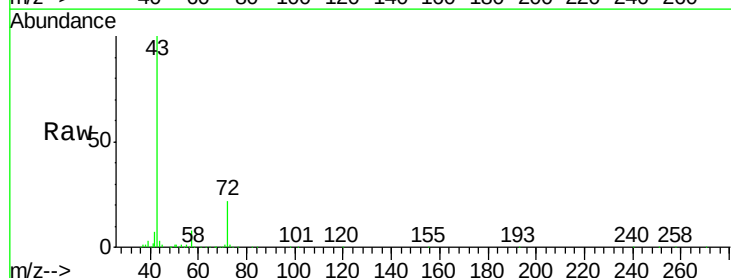
Acq: 10 Mar 2020 11:30

Tgt Ion: 43 Resp: 1280379

Ion Ratio Lower Upper

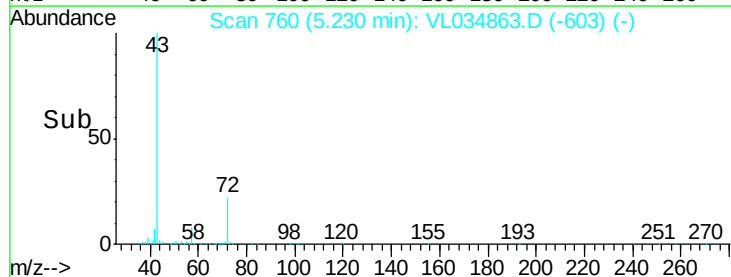
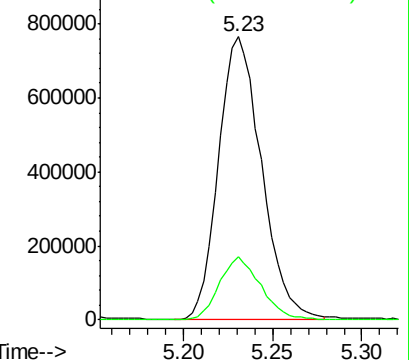
43 100

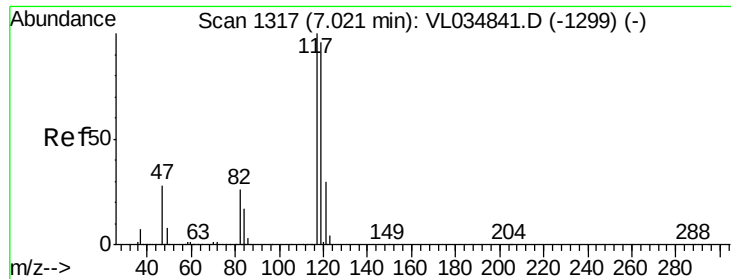
72 21.8 17.6 26.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





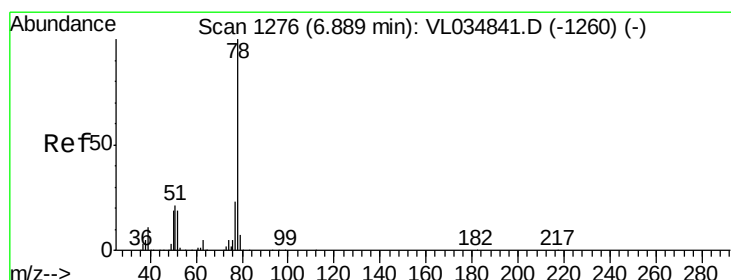
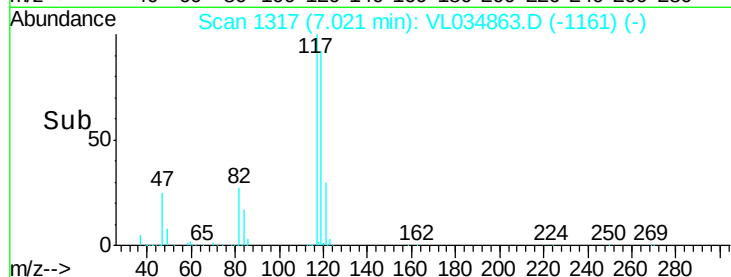
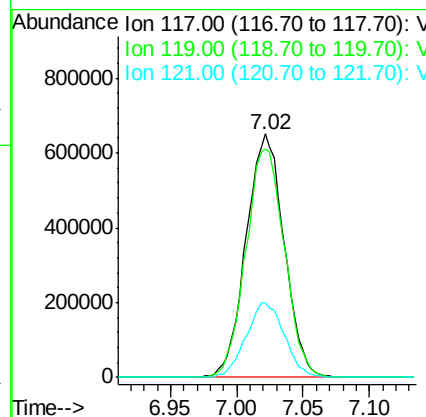
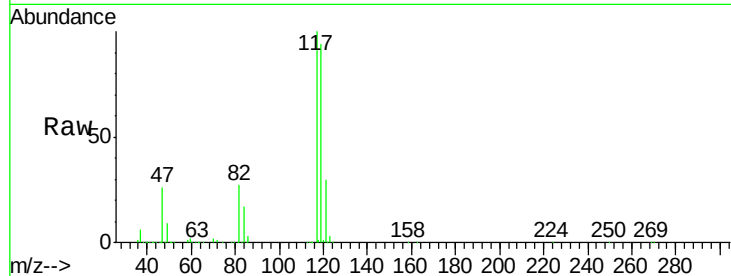
#35
Carbon Tetrachloride
Concen: 10.255 ppbv
RT: 7.02 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VL034863.D
Acq: 10 Mar 2020 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
117	100		
119	93.5	77.0	115.4
121	30.5	24.0	36.0

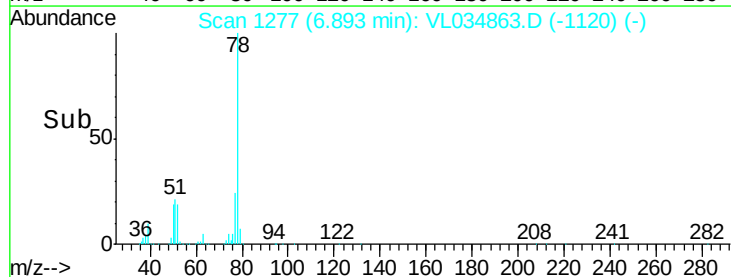
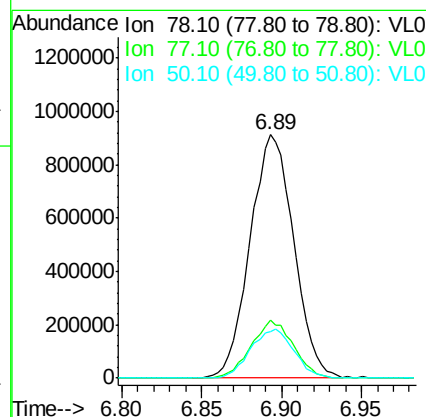
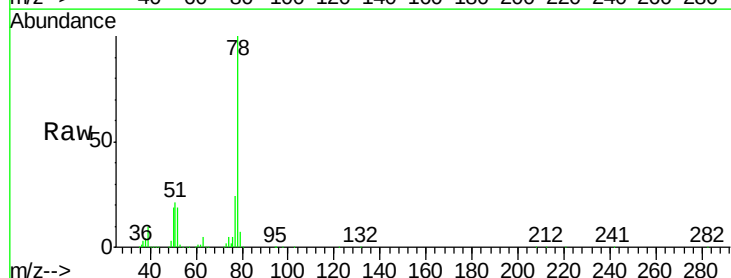
Manual Integrations
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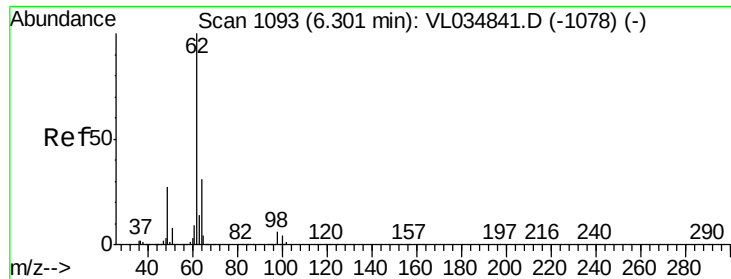
MMDadoda
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#36
Benzene
Concen: 9.396 ppbv
RT: 6.89 min Scan# 1277
Delta R.T. 0.00 min
Lab File: VL034863.D
Acq: 10 Mar 2020 11:30

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.2	27.2
50	18.9	15.2	22.8





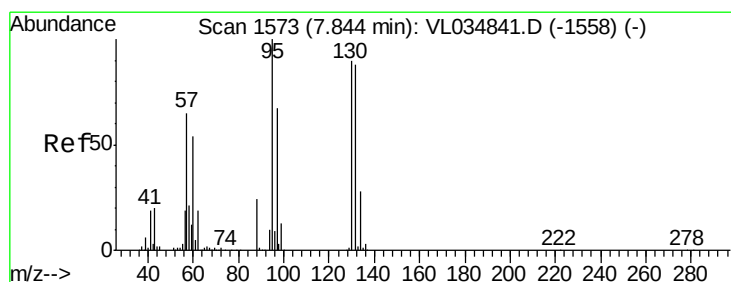
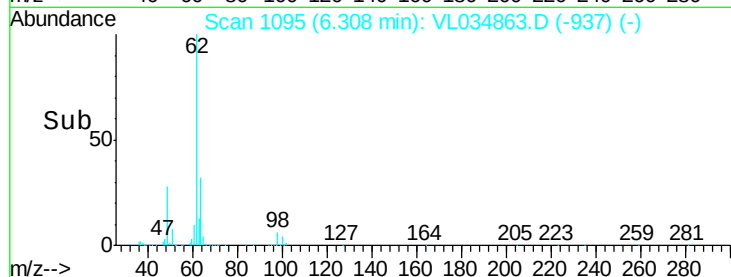
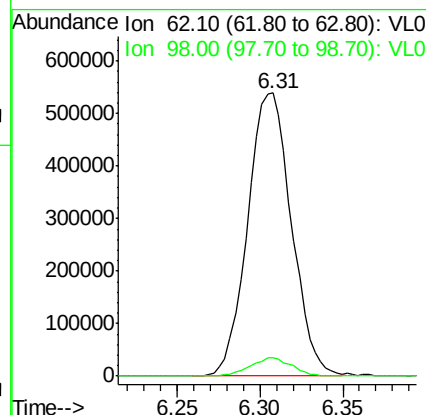
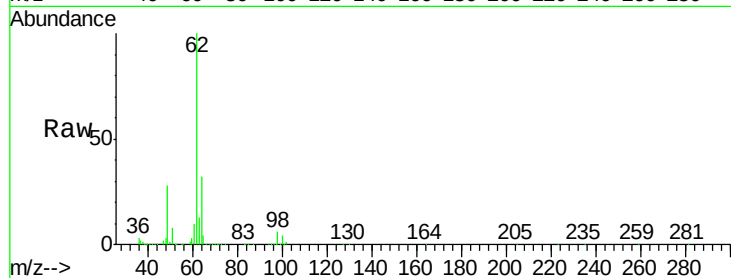
#37
 1,2-Dichloroethane
 Concen: 9.664 ppbv
 RT: 6.31 min Scan# 1095
 Delta R.T. 0.01 min
 Lab File: VL034863.D
 Acq: 10 Mar 2020 11:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Resp	Lower	Upper
62	100	988988		
98	6.3		5.2	7.8

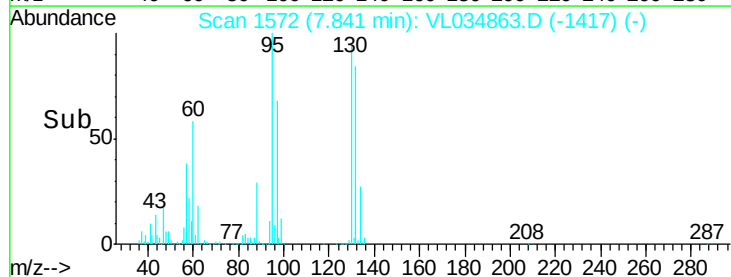
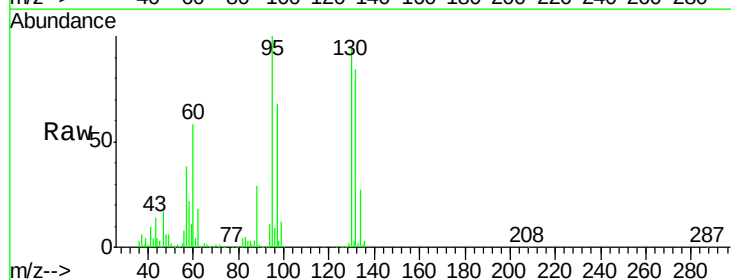
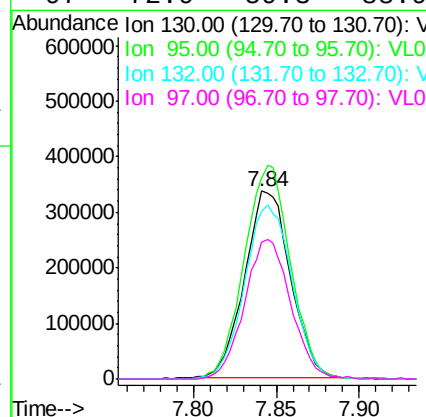
Manual Integrations
 APPROVED

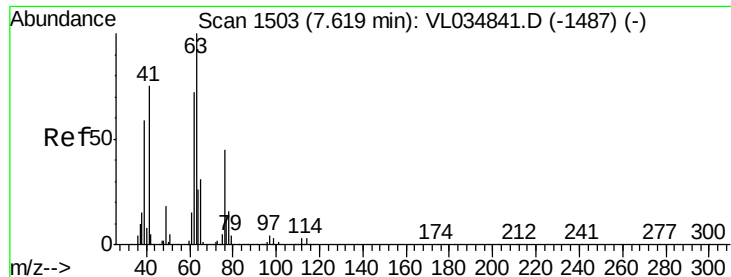
MMDadoda
 3/11/2020 3:17:10 PM



#38
 Trichloroethene
 Concen: 9.426 ppbv
 RT: 7.84 min Scan# 1572
 Delta R.T. -0.00 min
 Lab File: VL034863.D
 Acq: 10 Mar 2020 11:30

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	649768		
95	107.0		88.5	132.7
132	89.6		78.0	117.0
97	72.9		59.3	88.9





#39

1,2-Dichloropropane

Concen: 9.399 ppbv

RT: 7.62 min Scan# 1504

Delta R.T. 0.00 min

Lab File: VL034863.D

Acq: 10 Mar 2020 11:30

Instrument :

MSVOA_L

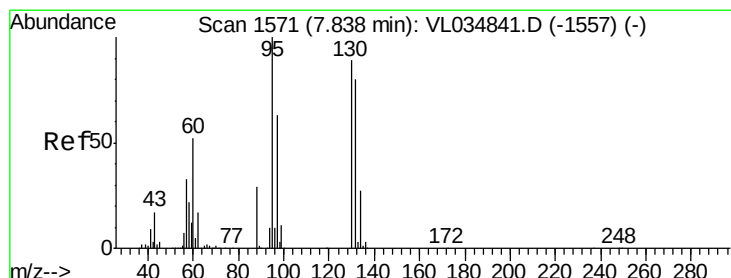
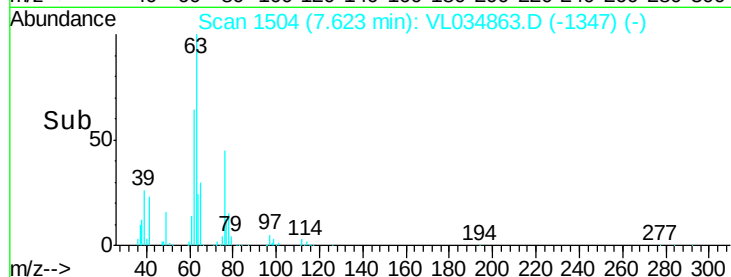
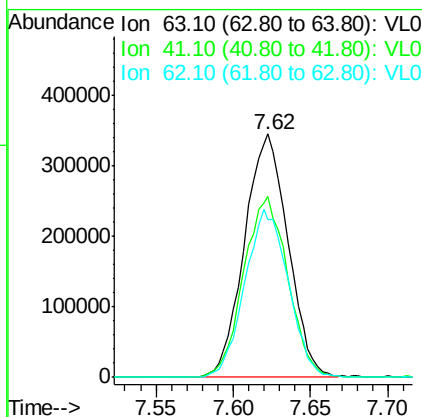
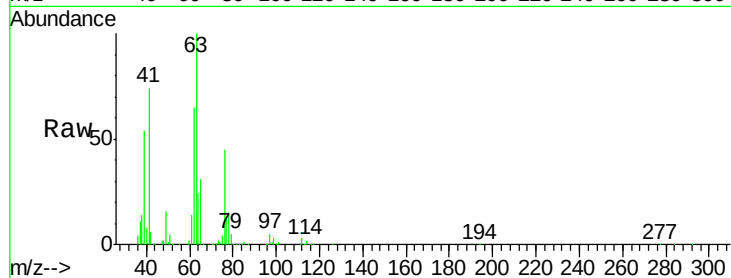
ClientSampleId :

VSTDCCC010

Tot Ion:	63	Resp:	675837
Ion Ratio	Lower	Upper	
63	100		
41	74.1	59.8	89.8
62	64.6	57.6	86.4

Manual Integrations
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#40

1,4-Dioxane

Concen: 8.422 ppbv

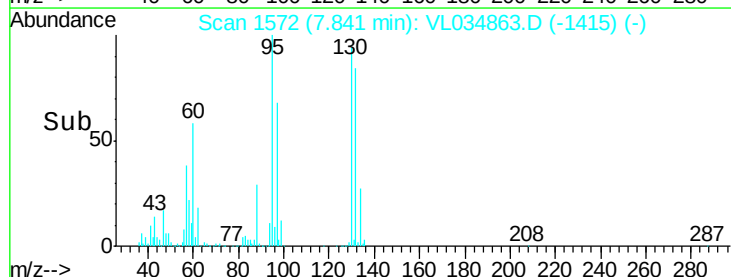
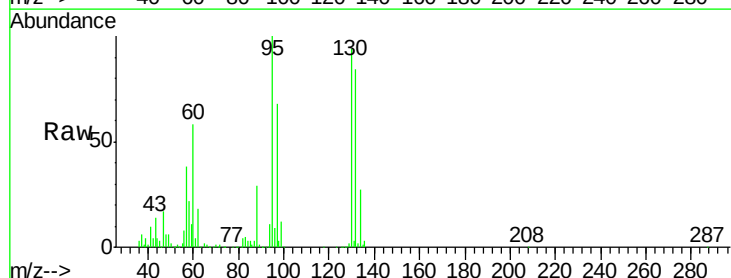
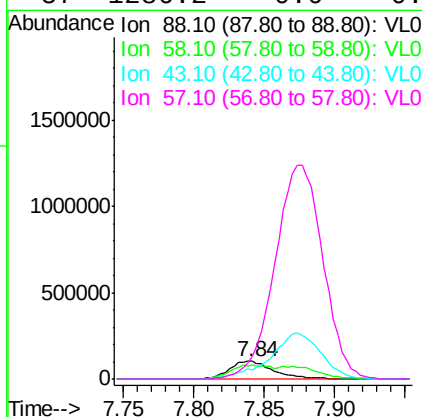
RT: 7.84 min Scan# 1572

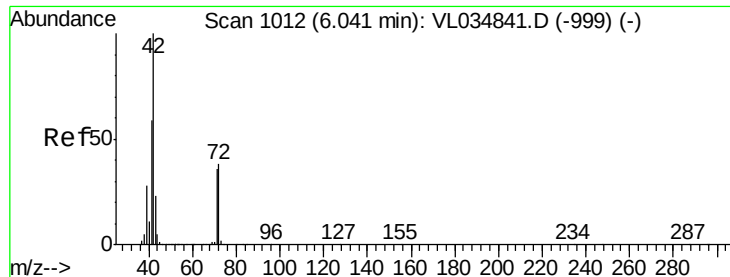
Delta R.T. 0.00 min

Lab File: VL034863.D

Acq: 10 Mar 2020 11:30

Tgt Ion:	88	Resp:	228720
Ion Ratio	Lower	Upper	
88	100		
58	135.2	103.9	155.9
43	292.8	0.0	0.0#
57	1286.2	0.0	0.0#





#41

Tetrahydrofuran

Concen: 9.823 ppbv

RT: 6.04 min Scan# 1012

Delta R.T. 0.00 min

Lab File: VL034863.D

Acq: 10 Mar 2020 11:30

Instrument :

MSVOA_L

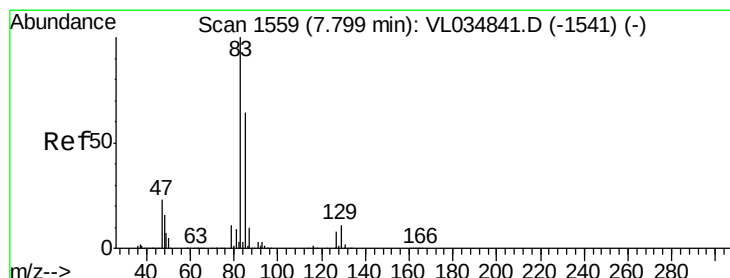
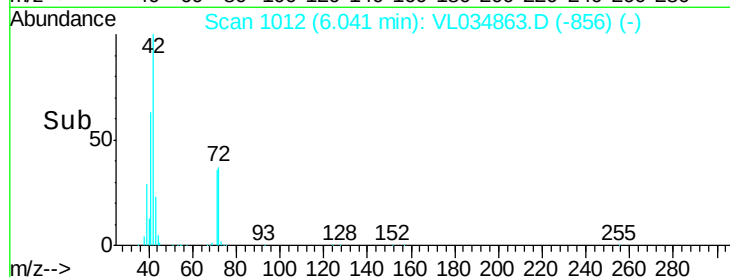
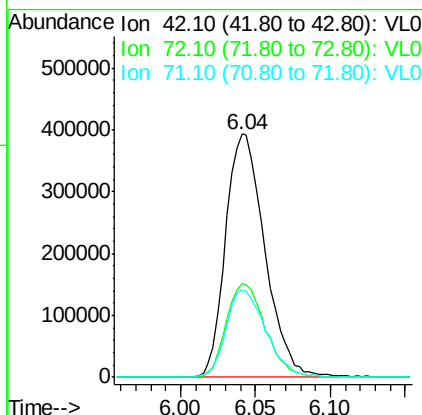
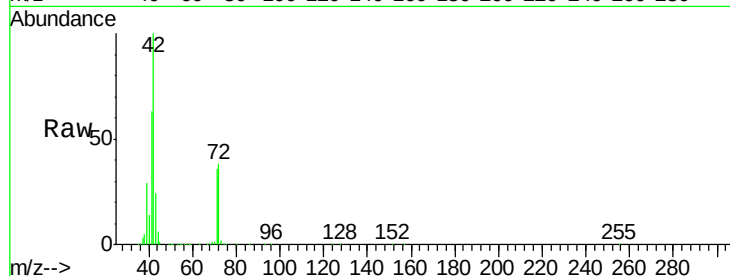
ClientSampleId :

VSTDCCC010

Tot Ion:	42	Resp:	719264
Ion Ratio		Lower	Upper
42	100		
72	38.7	30.8	46.2
71	36.6	30.1	45.1

Manual Integrations
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#42

Bromodichloromethane

Concen: 9.701 ppbv

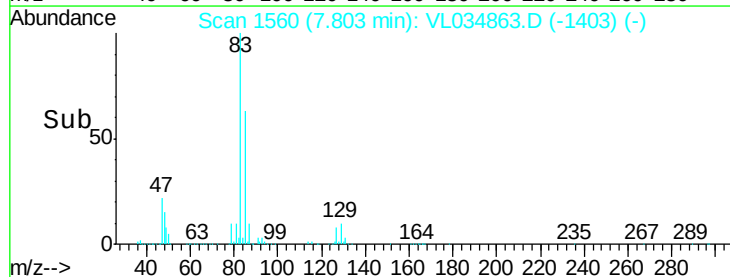
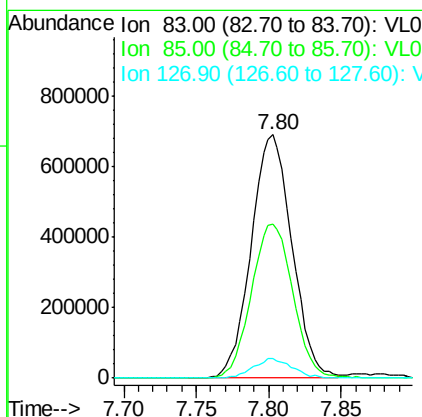
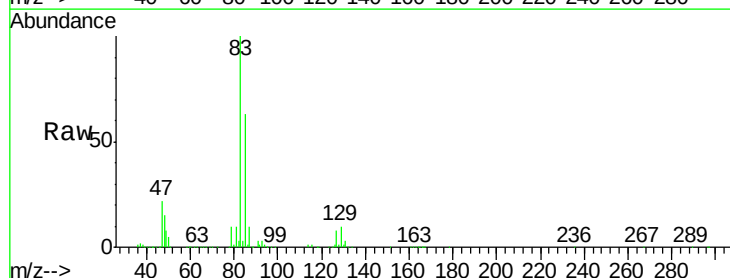
RT: 7.80 min Scan# 1560

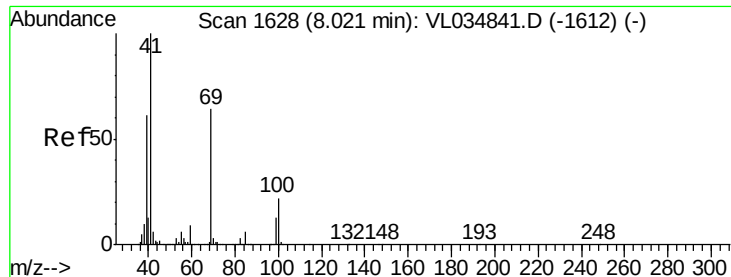
Delta R.T. 0.00 min

Lab File: VL034863.D

Acq: 10 Mar 2020 11:30

Tgt Ion:	83	Resp:	1353125
Ion Ratio		Lower	Upper
83	100		
85	63.0	51.4	77.2
127	8.2	6.2	9.4





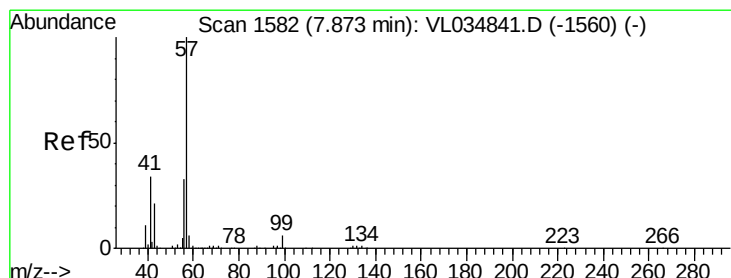
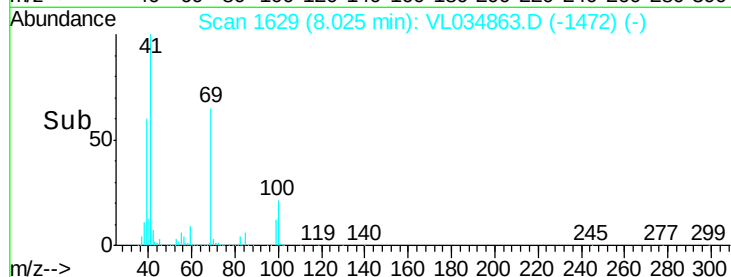
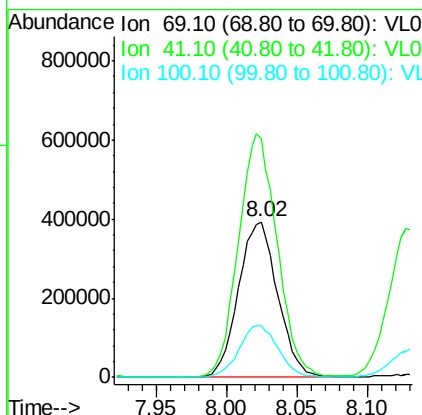
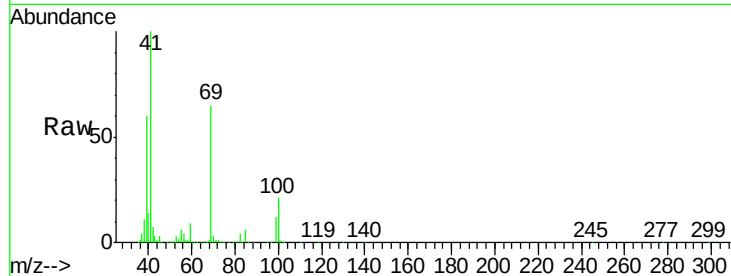
#43
Methvl Methacrylate
Concen: 10.035 ppbv
RT: 8.02 min Scan# 1629
Delta R.T. 0.00 min
Lab File: VL034863.D
Acq: 10 Mar 2020 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
69	100		
41	153.8	123.2	184.8
100	33.2	26.9	40.3

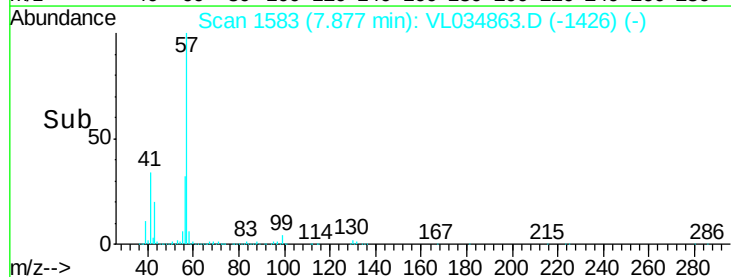
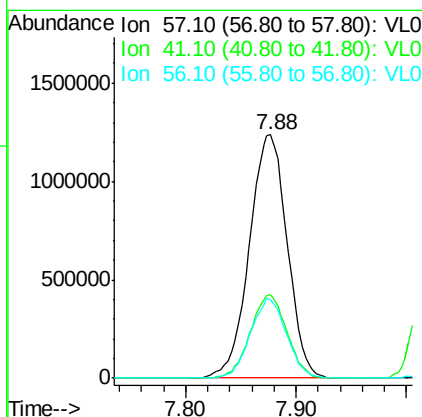
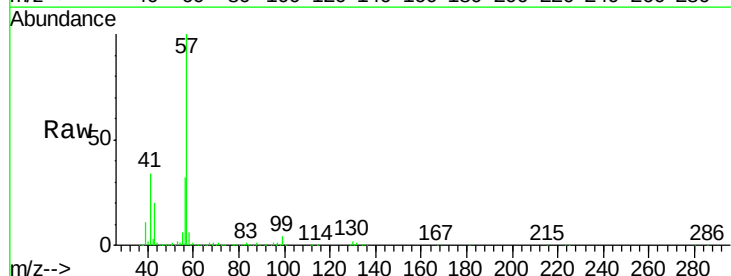
Manual Integrations
APPROVED

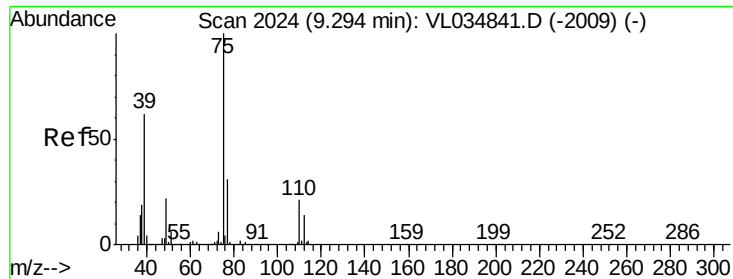
MMDadoda
3/11/2020 3:17:10 PM



#44
2,2,4-Trimethylpentane
Concen: 9.580 ppbv
RT: 7.88 min Scan# 1583
Delta R.T. 0.00 min
Lab File: VL034863.D
Acq: 10 Mar 2020 11:30

Tgt Ion	Ratio	Lower	Upper
57	100		
41	33.2	26.2	39.4
56	31.2	25.0	37.4





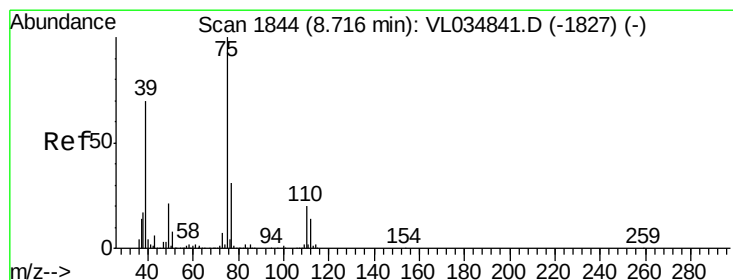
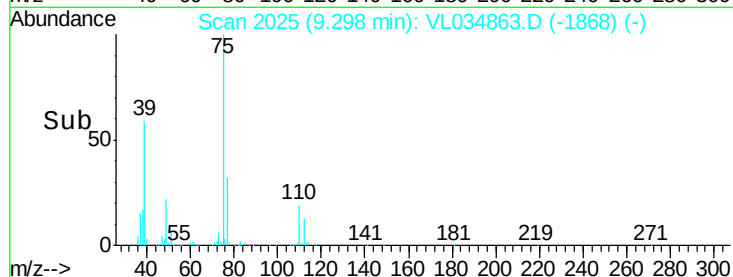
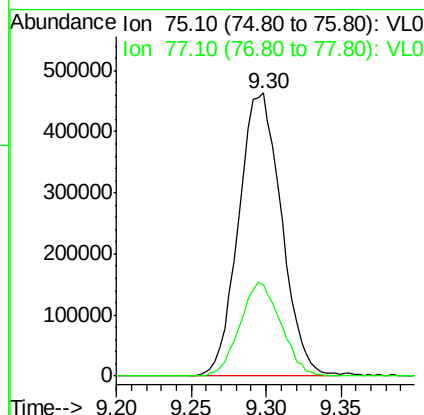
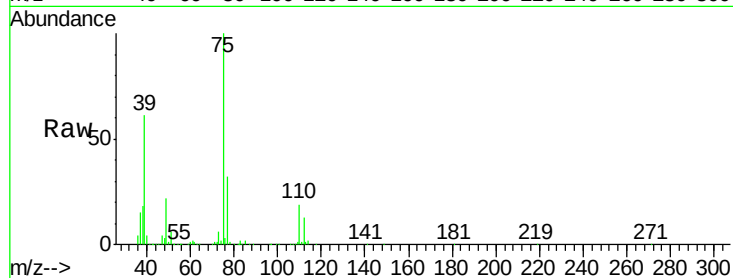
#45
t-1,3-Dichloropropene
Concen: 10.218 ppbv
RT: 9.30 min Scan# 2025
Delta R.T. 0.00 min
Lab File: VL034863.D
Acq: 10 Mar 2020 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 75 Resp: 917953
Ion Ratio Lower Upper
75 100
77 32.2 24.6 37.0

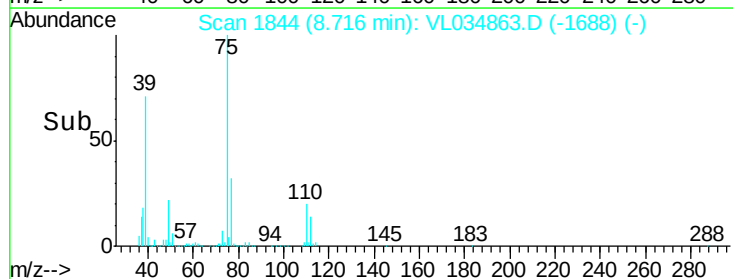
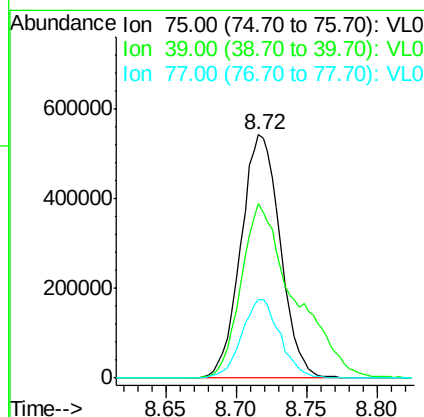
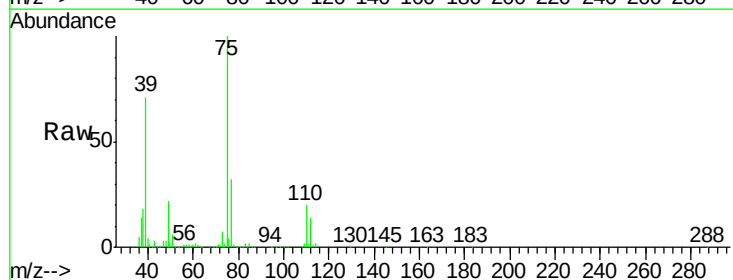
Manual Integrations
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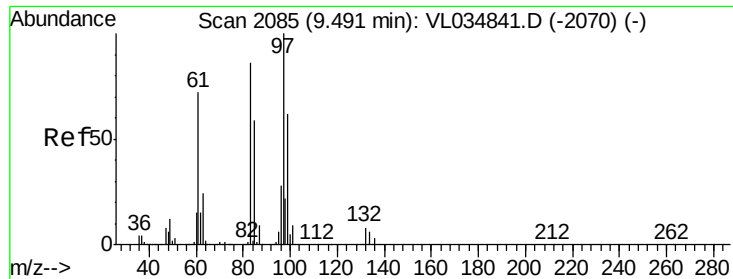
MMDadoda
3/11/2020 3:17:10 PM



#46
cis-1,3-Dichloropropene
Concen: 9.957 ppbv
RT: 8.72 min Scan# 1844
Delta R.T. 0.00 min
Lab File: VL034863.D
Acq: 10 Mar 2020 11:30

Tgt Ion: 75 Resp: 1062897
Ion Ratio Lower Upper
75 100
39 71.4 55.7 83.5
77 32.4 24.7 37.1





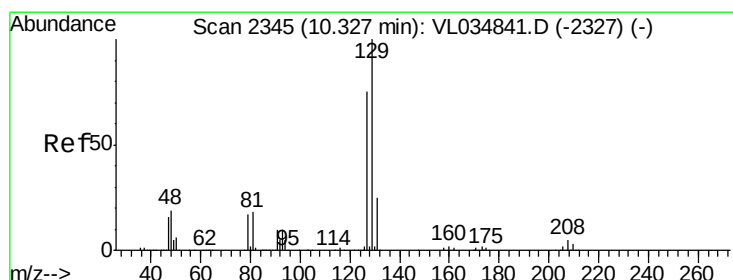
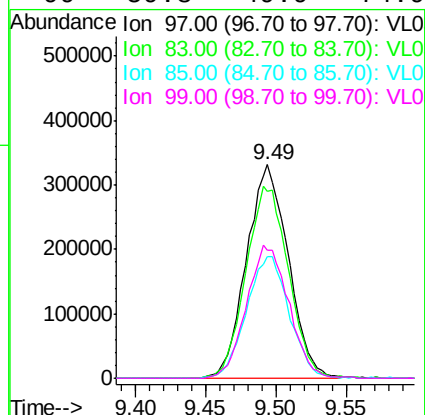
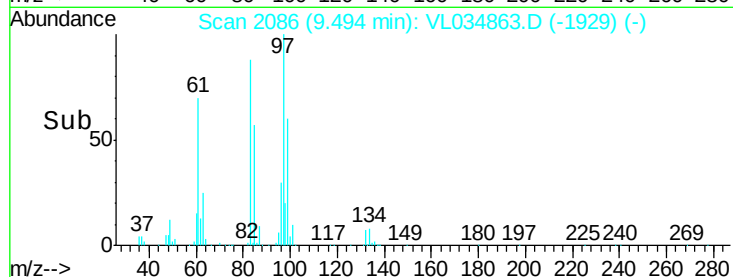
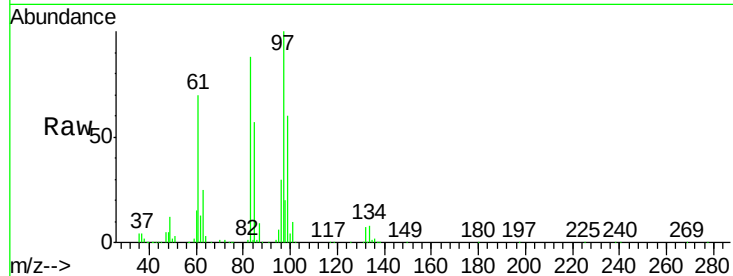
#47
 1,1,2-Trichloroethane
 Concen: 9.314 ppbv
 RT: 9.49 min Scan# 2086
 Delta R.T. 0.00 min
 Lab File: VL034863.D
 Acq: 10 Mar 2020 11:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		687381		
83	87.8	68.6	102.8		
85	57.1	46.9	70.3		
99	59.8	49.9	74.9		

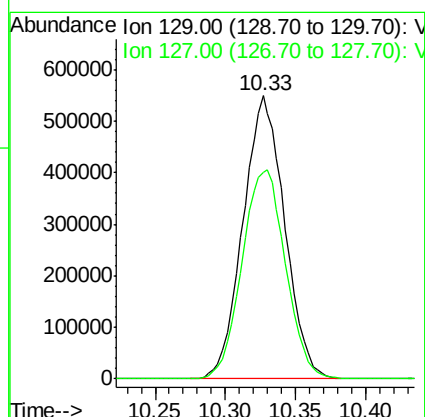
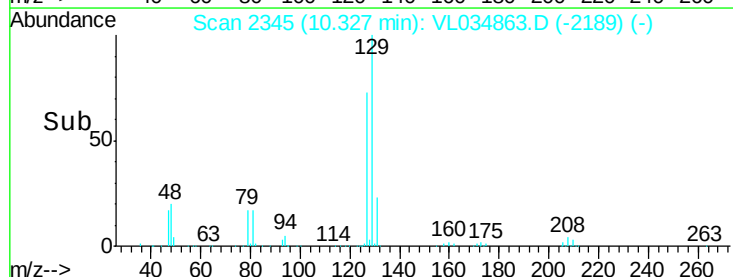
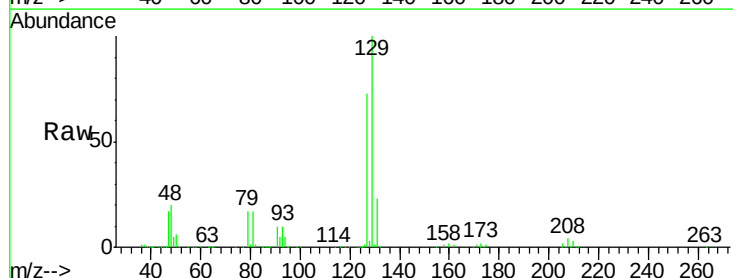
Manual Integrations
 APPROVED

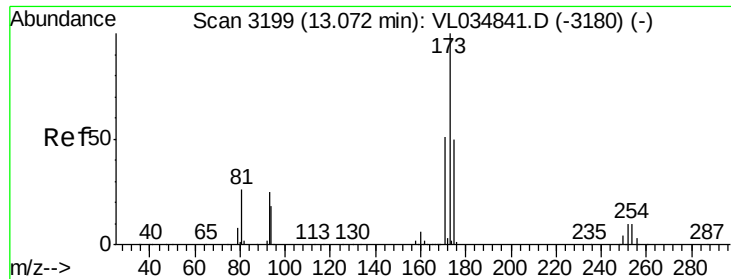
MMDadoda
 3/11/2020 3:17:10 PM



#48
 Dibromochloromethane
 Concen: 9.478 ppbv
 RT: 10.33 min Scan# 2345
 Delta R.T. 0.00 min
 Lab File: VL034863.D
 Acq: 10 Mar 2020 11:30

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		1132724		
127	77.4	39.6	118.7		





#49

Bromoform

Concen: 9.249 ppbv

RT: 13.07 min Scan# 3199

Delta R.T. 0.00 min

Lab File: VL034863.D

Acq: 10 Mar 2020 11:30

Instrument :

MSVOA_L

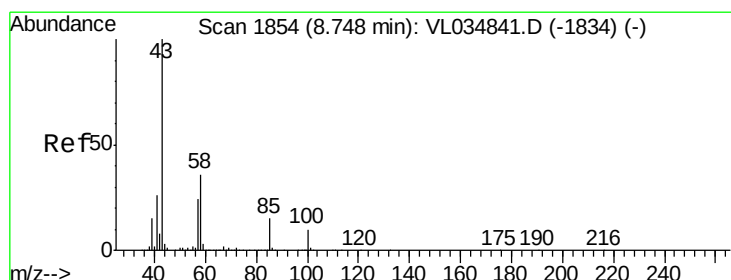
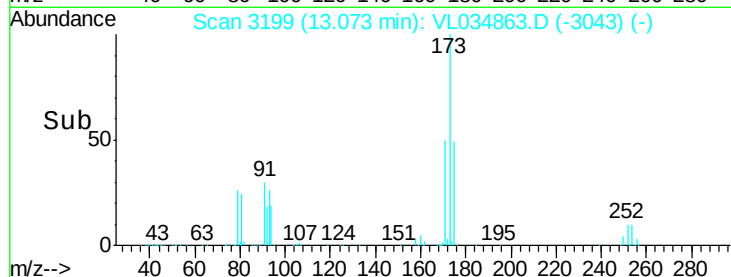
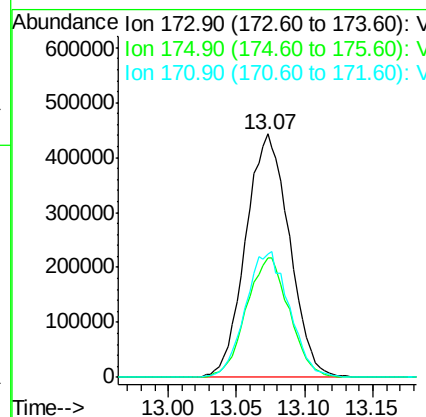
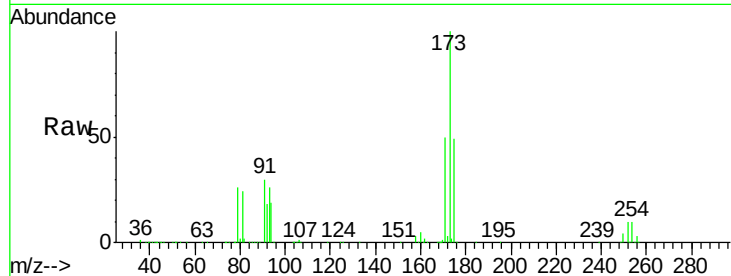
ClientSampleId :

VSTDCCC010

Tot Ion:	173	Resp:	985597
Ion Ratio	Lower	Upper	
173	100		
175	48.6	39.6	59.4
171	51.7	41.0	61.6

Manual Integrations
APPROVED

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3/11/2020 3:17:10 PM



#50

4-Methyl-2-Pentanone

Concen: 9.678 ppbv

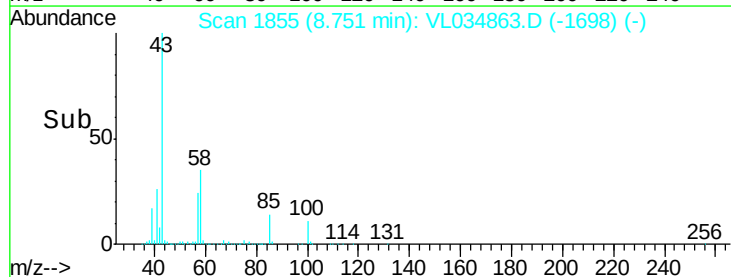
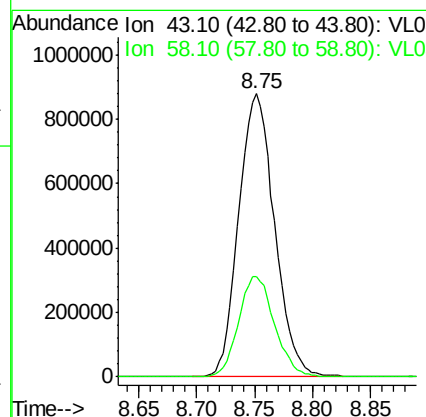
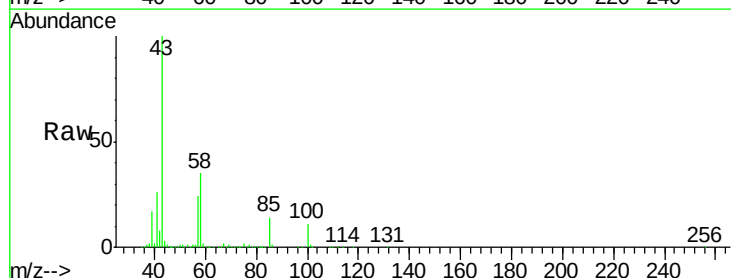
RT: 8.75 min Scan# 1855

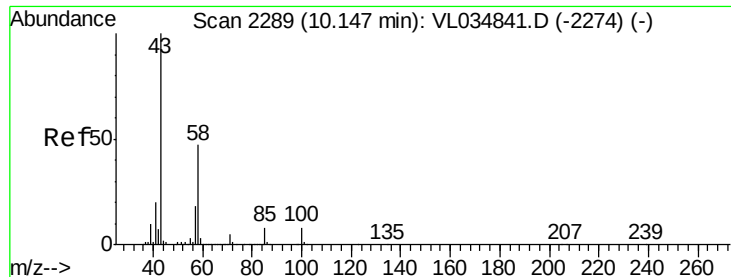
Delta R.T. 0.00 min

Lab File: VL034863.D

Acq: 10 Mar 2020 11:30

Tgt Ion:	43	Resp:	1885208
Ion Ratio	Lower	Upper	
43	100		
58	35.7	28.6	42.8





#51

2-Hexanone

Concen: 9.789 ppbv

RT: 10.15 min Scan# 2290

Delta R.T. 0.00 min

Lab File: VL034863.D

Acq: 10 Mar 2020 11:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1549646

Ion Ratio Lower Upper

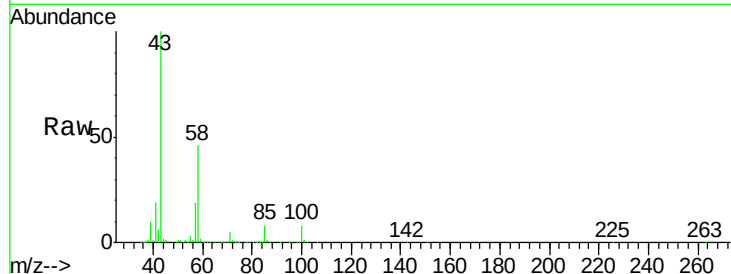
43 100

58 47.5 38.6 58.0

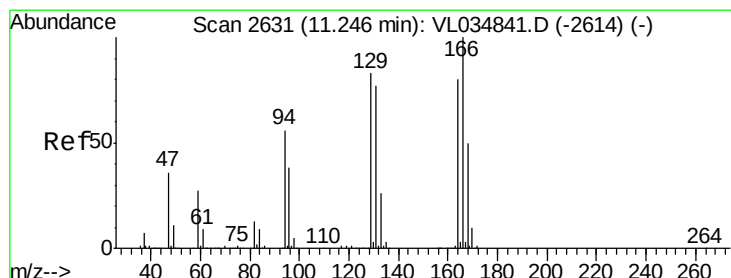
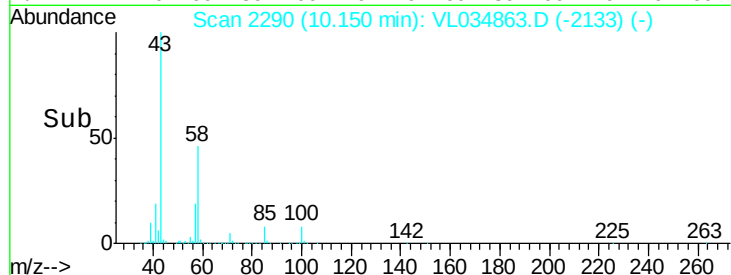
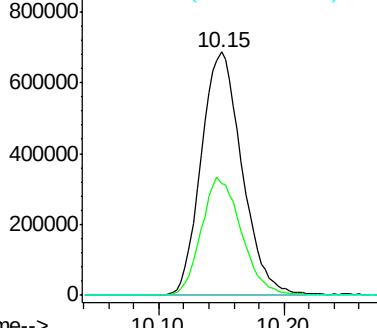
98 0.1 0.1 0.1

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



#52

Tetrachloroethene

Concen: 8.500 ppbv

RT: 11.25 min Scan# 2631

Delta R.T. 0.00 min

Lab File: VL034863.D

Acq: 10 Mar 2020 11:30

Tgt Ion: 164 Resp: 610347

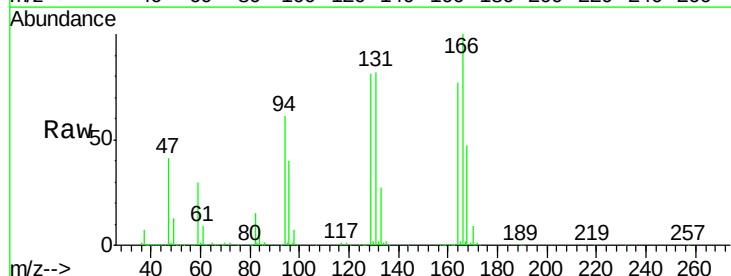
Ion Ratio Lower Upper

164 100

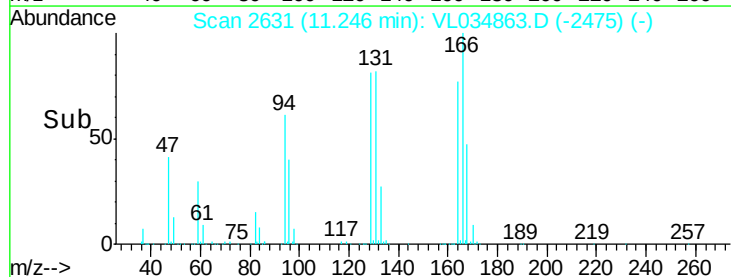
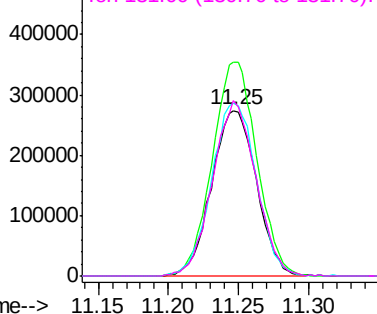
166 129.0 100.0 150.0

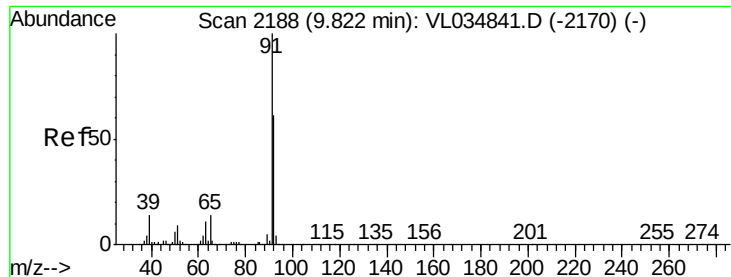
129 104.6 83.1 124.7

131 106.0 77.2 115.8



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





#53

Toluene

Concen: 9.524 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. 0.00 min

Lab File: VL034863.D

Acq: 10 Mar 2020 11:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 1996233

Ion Ratio Lower Upper

91 100

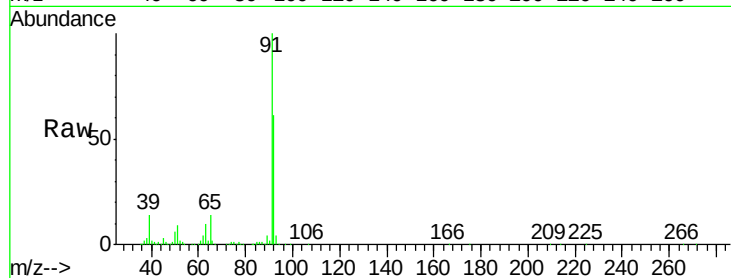
92 60.8 48.6 72.8

Manual Integrations

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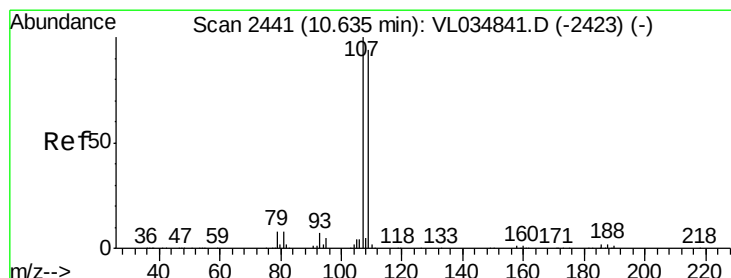
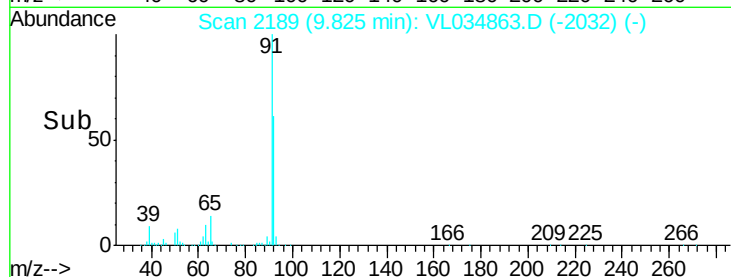
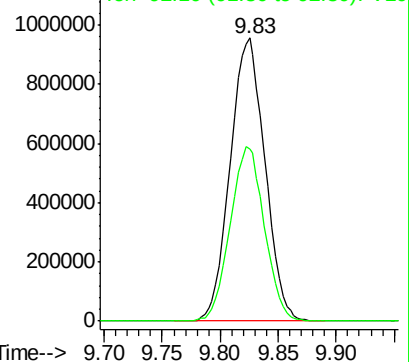
MMDadoda

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 9.465 ppbv

RT: 10.63 min Scan# 2440

Delta R.T. -0.00 min

Lab File: VL034863.D

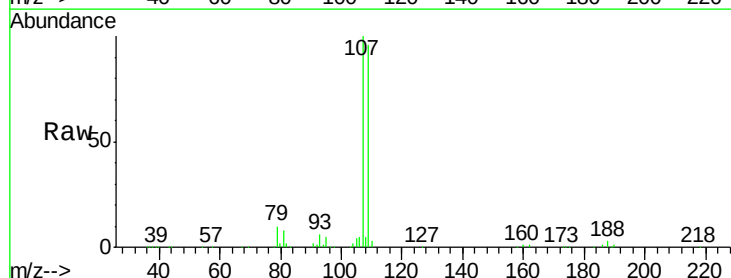
Acq: 10 Mar 2020 11:30

Tgt Ion: 107 Resp: 1051405

Ion Ratio Lower Upper

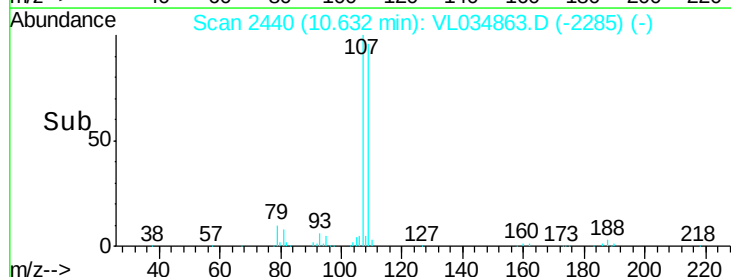
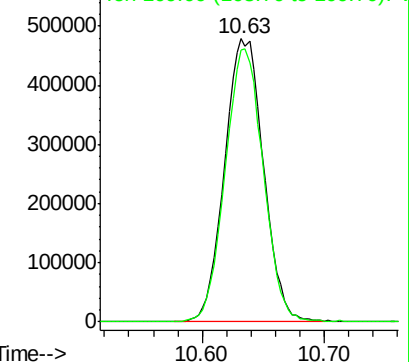
107 100

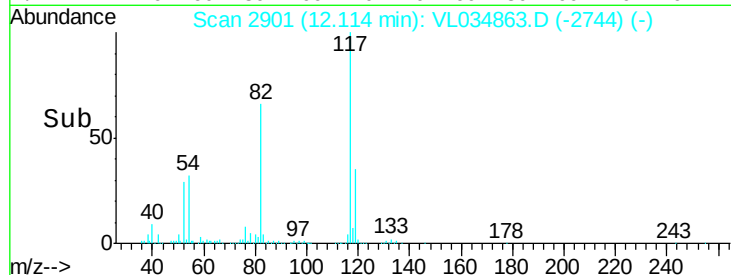
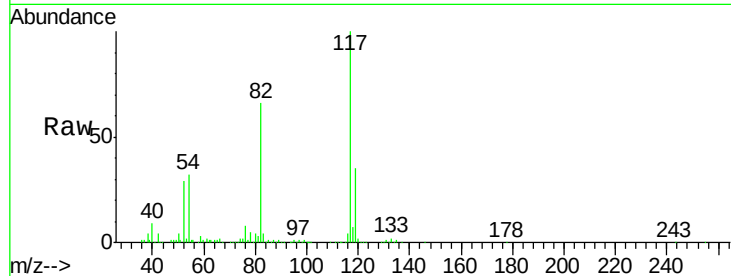
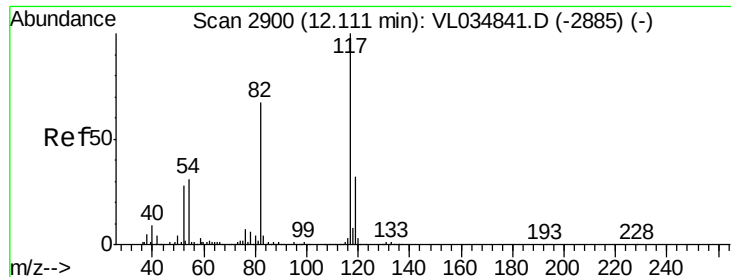
109 96.1 74.9 112.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





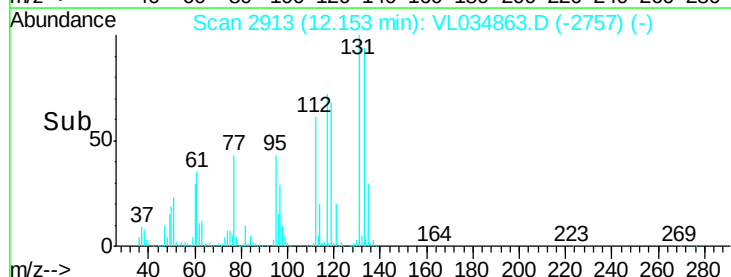
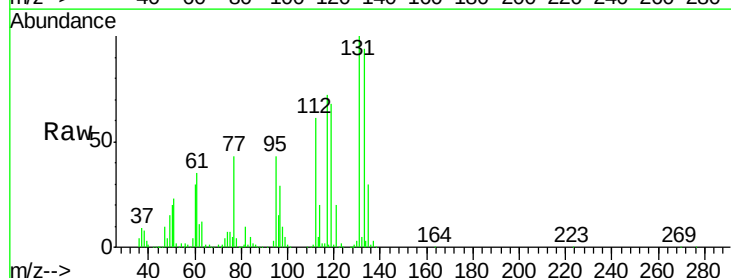
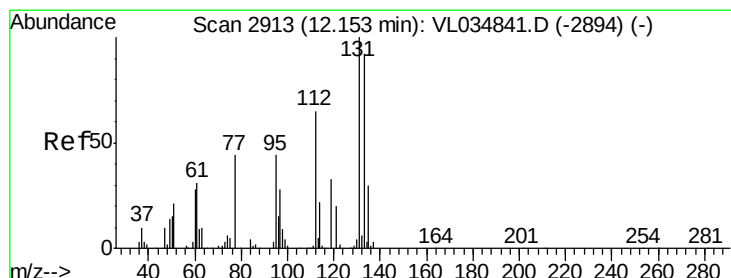
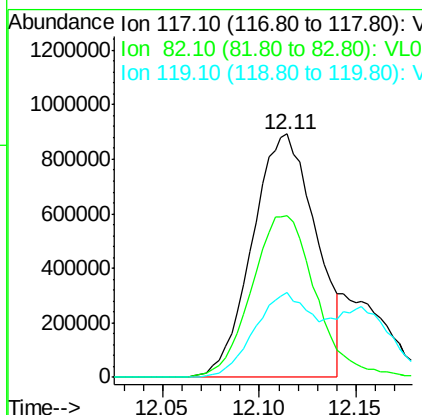
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.11 min Scan# 2901
Delta R.T. 0.00 min
Lab File: VL034863.D
Acq: 10 Mar 2020 11:30

Tot Ion:117 Resp: 2041050
Ion Ratio Lower Upper
117 100
82 67.6 51.1 76.7
119 32.8 27.3 40.9

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

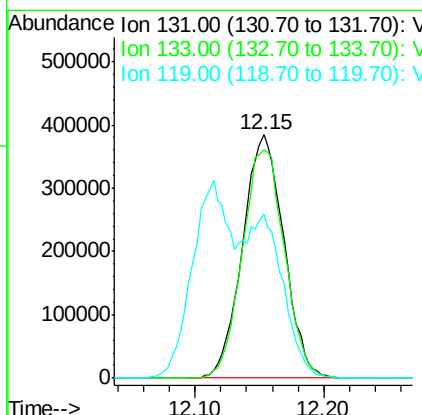
Manual Integrations
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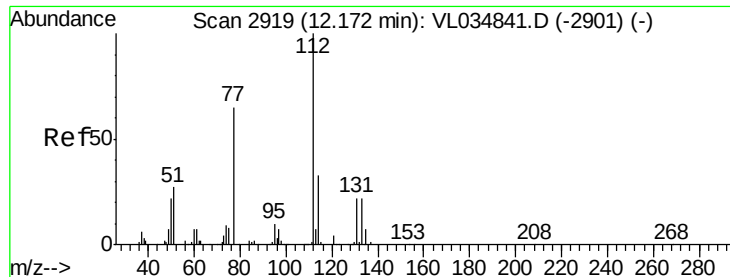
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.340 ppbv
RT: 12.15 min Scan# 2913
Delta R.T. 0.00 min
Lab File: VL034863.D
Acq: 10 Mar 2020 11:30

Tgt Ion:131 Resp: 856354
Ion Ratio Lower Upper
131 100
133 96.3 76.0 114.0
119 140.2 47.8 71.8#





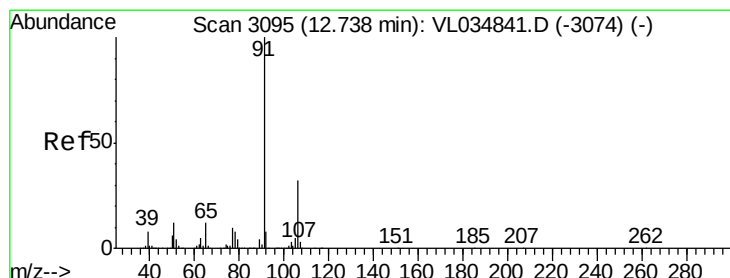
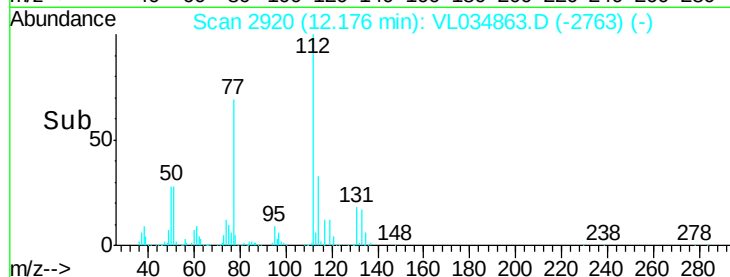
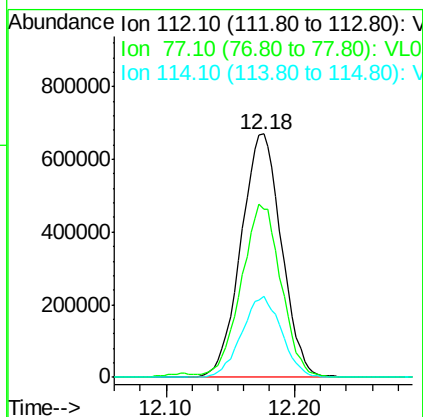
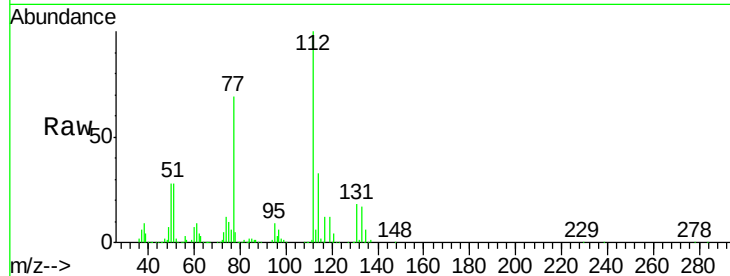
#57
Chlorobenzene
Concen: 9.158 ppbv
RT: 12.18 min Scan# 2920
Delta R.T. 0.00 min
Lab File: VL034863.D
Acq: 10 Mar 2020 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
112	100		
77	69.1	53.0	79.6
114	33.0	29.5	36.1

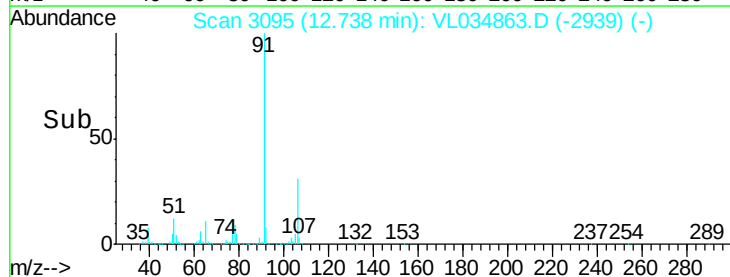
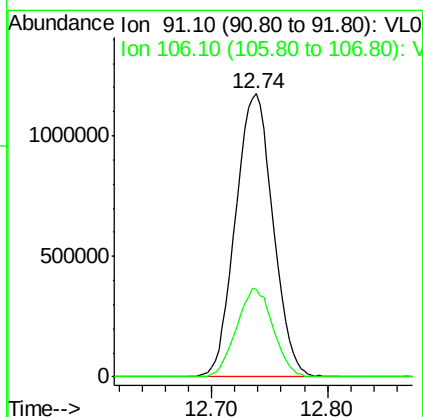
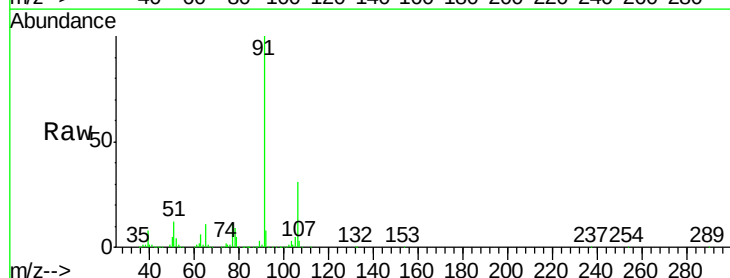
Manual Integrations
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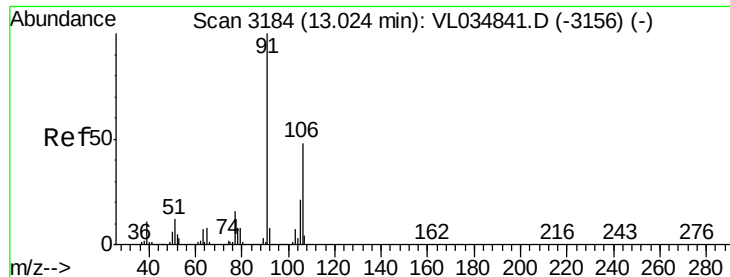
MMDadoda
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#58
Ethyl Benzene
Concen: 9.522 ppbv
RT: 12.74 min Scan# 3095
Delta R.T. 0.00 min
Lab File: VL034863.D
Acq: 10 Mar 2020 11:30

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.9	25.8	38.6





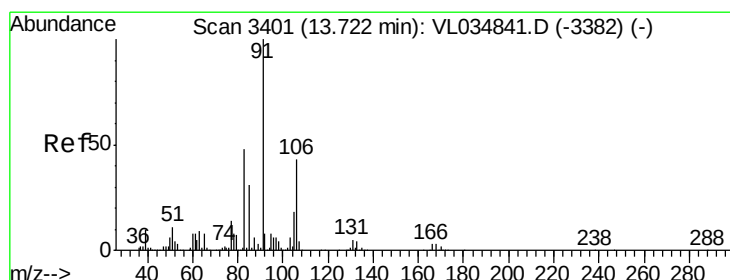
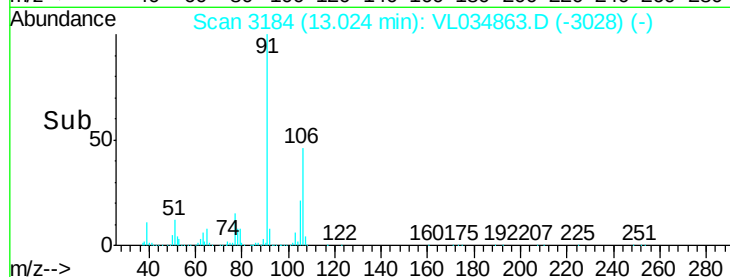
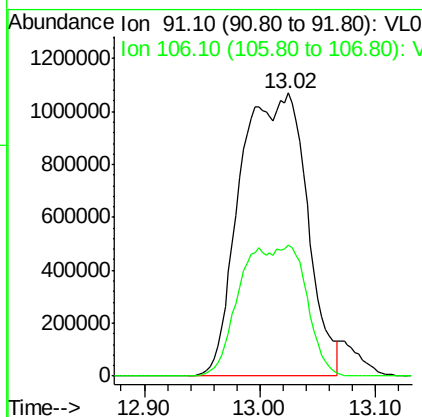
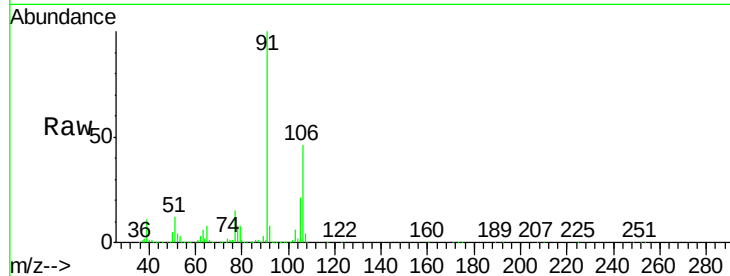
#59
m/p-Xylene
Concen: 18.459 ppbv m
RT: 13.02 min Scan# 3184
Delta R.T. 0.00 min
Lab File: VL034863.D
Acq: 10 Mar 2020 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 4274558
Ion Ratio Lower Upper
91 100
106 45.7 37.1 55.7

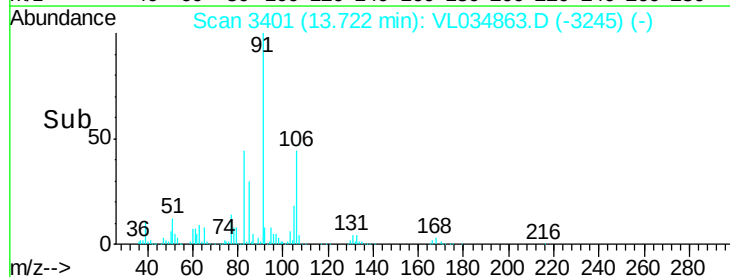
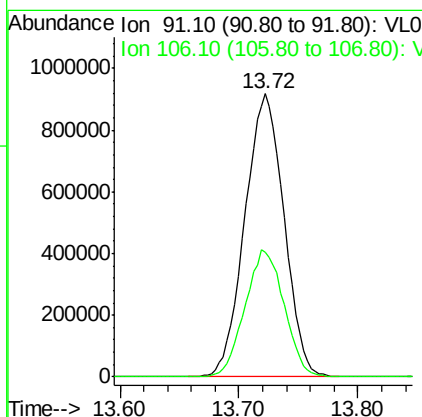
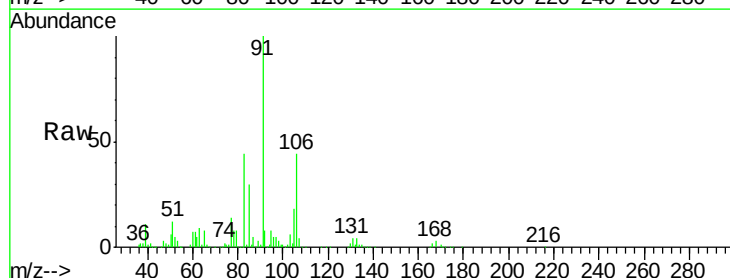
Manual Integrations
APPROVED

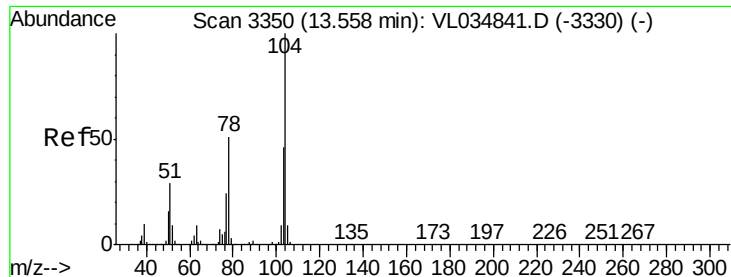
MMDadoda
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#60
o-Xylene
Concen: 9.235 ppbv
RT: 13.72 min Scan# 3401
Delta R.T. 0.00 min
Lab File: VL034863.D
Acq: 10 Mar 2020 11:30

Tgt Ion: 91 Resp: 2088028
Ion Ratio Lower Upper
91 100
106 44.7 22.5 67.5





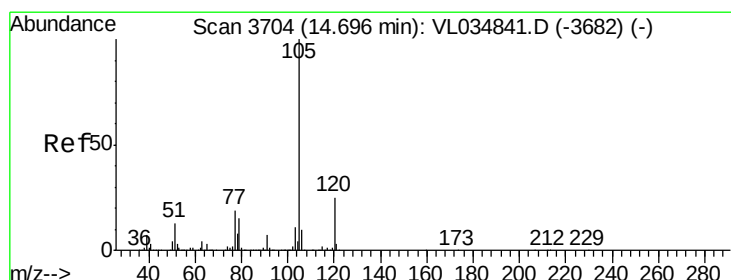
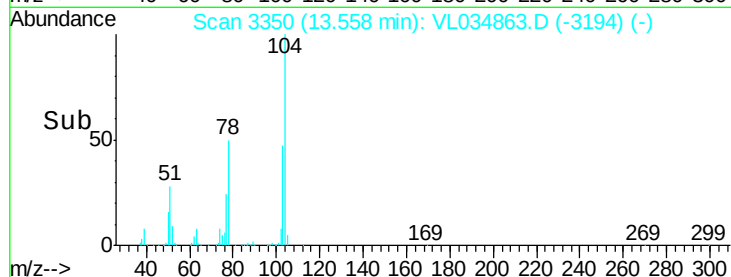
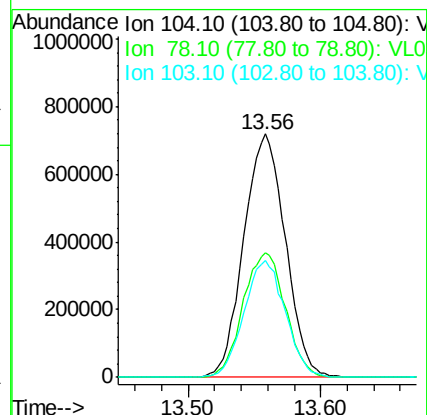
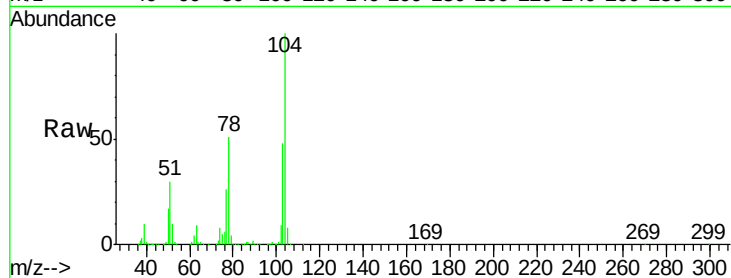
#61
Stvrene
Concen: 9.862 ppbv
RT: 13.56 min Scan# 3350
Delta R.T. 0.00 min
Lab File: VL034863.D
Acq: 10 Mar 2020 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
104	100		
78	52.4	41.8	62.6
103	47.8	37.8	56.6

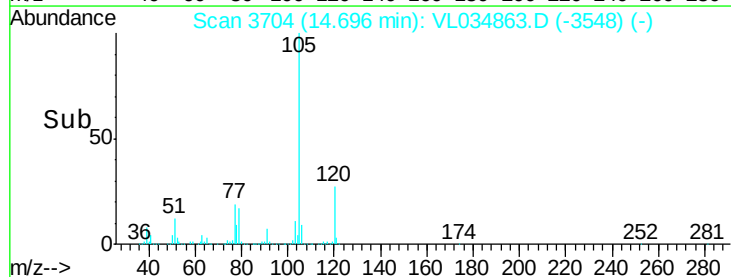
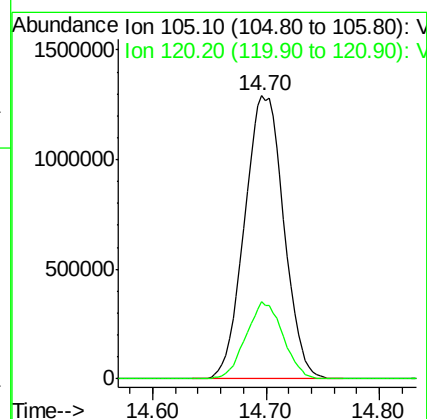
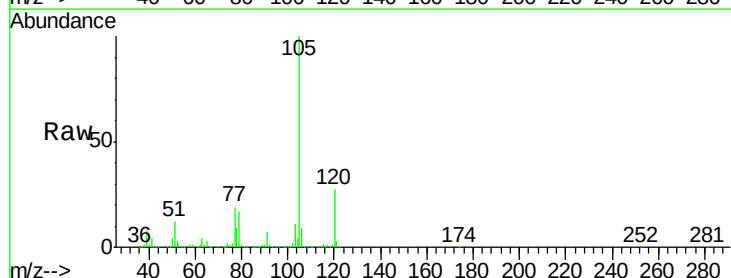
Manual Integrations
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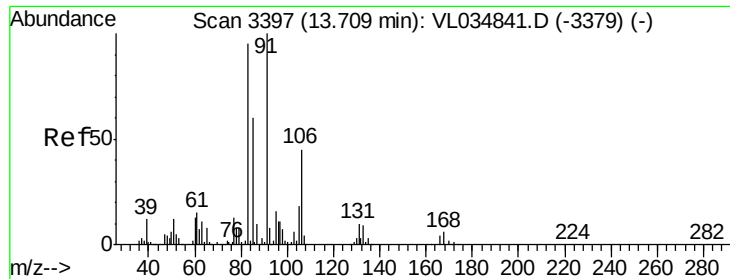
MMDadoda
3/11/2020 3:17:10 PM



#62
Isopropylbenzene
Concen: 9.112 ppbv
RT: 14.70 min Scan# 3704
Delta R.T. 0.00 min
Lab File: VL034863.D
Acq: 10 Mar 2020 11:30

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.7	21.0	31.4





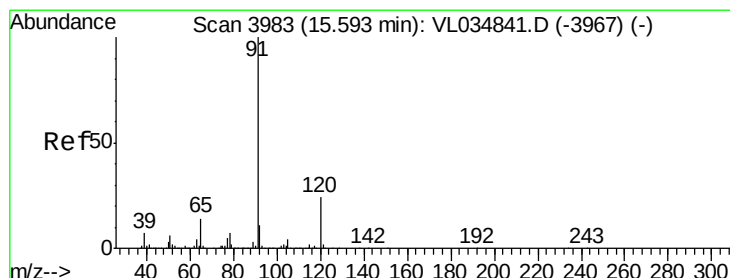
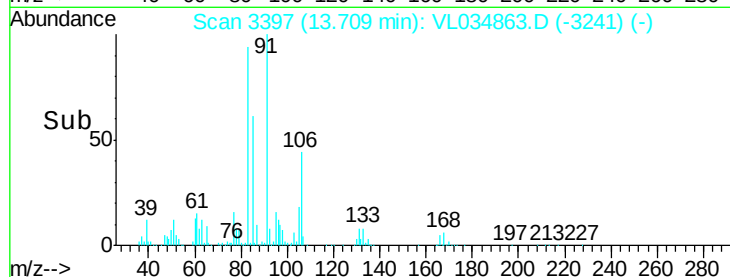
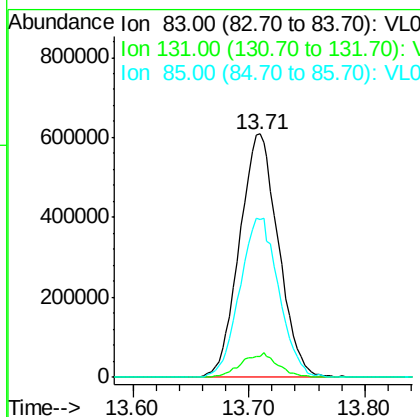
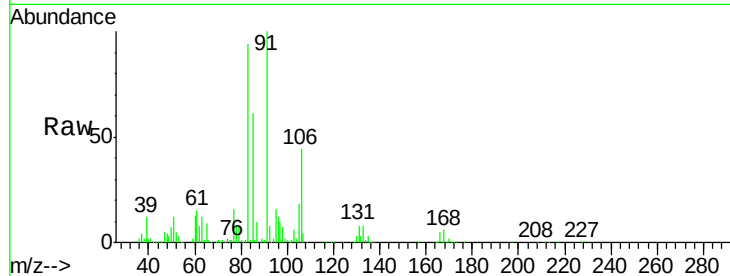
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.244 ppbv
 RT: 13.71 min Scan# 3397
 Delta R.T. 0.00 min
 Lab File: VL034863.D
 Acq: 10 Mar 2020 11:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 83 Resp: 1418940
 Ion Ratio Lower Upper
 83 100
 131 9.3 5.0 14.9
 85 66.1 32.4 97.2

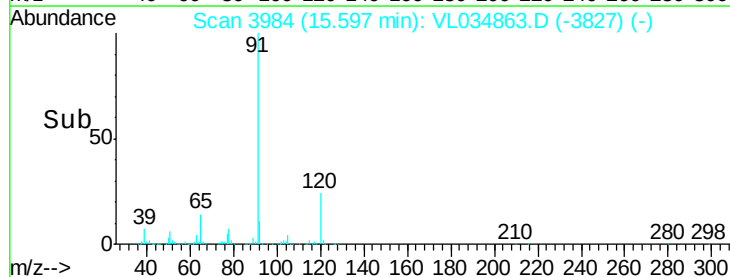
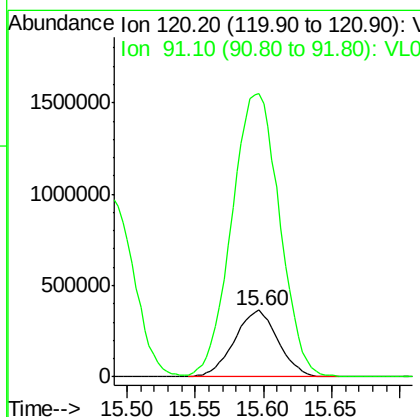
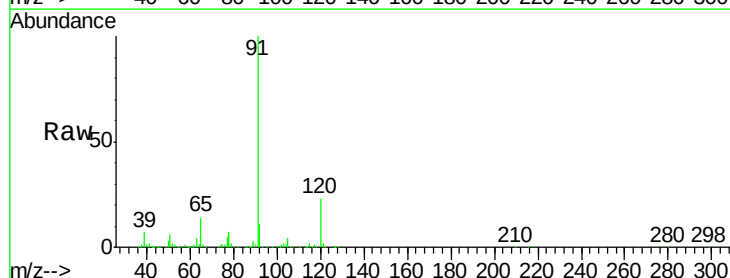
Manual Integrations
 APPROVED

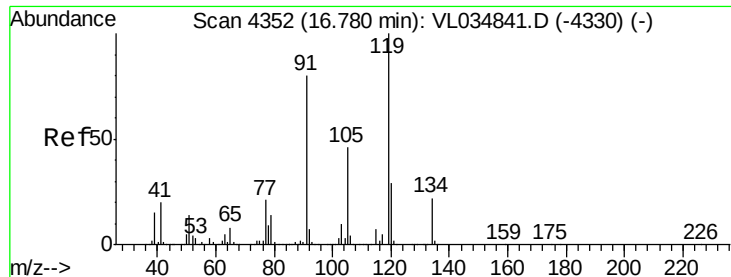
MMDadoda
 3/11/2020 3:17:10 PM



#64
 n-propylbenzene
 Concen: 9.108 ppbv
 RT: 15.60 min Scan# 3984
 Delta R.T. 0.00 min
 Lab File: VL034863.D
 Acq: 10 Mar 2020 11:30

Tgt Ion: 120 Resp: 810459
 Ion Ratio Lower Upper
 120 100
 91 465.3 360.9 541.3





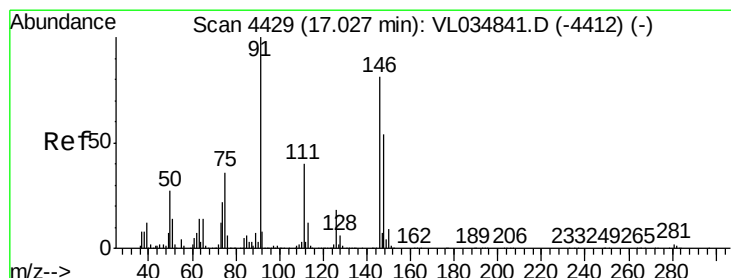
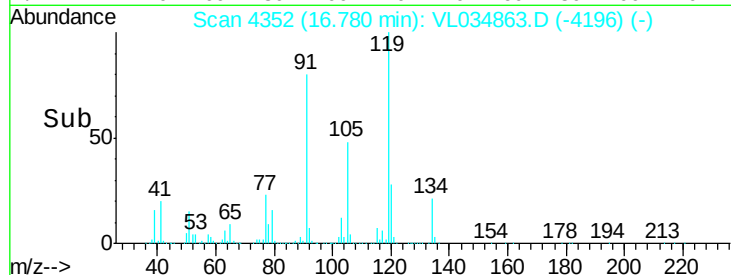
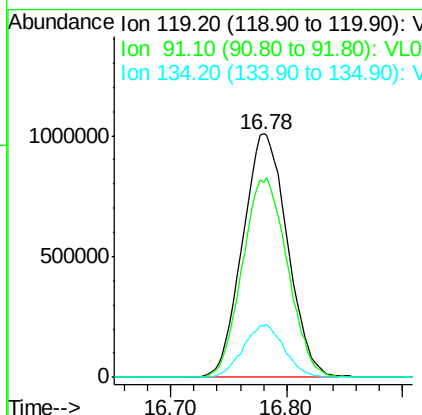
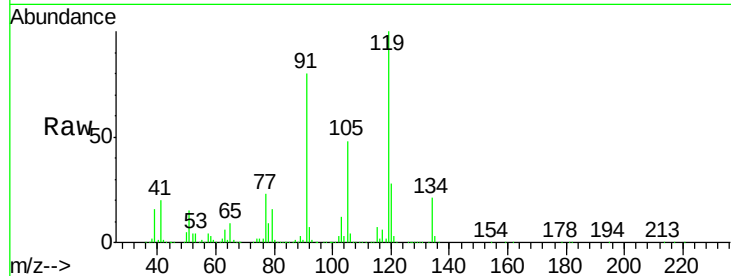
#65
 tert-Butylbenzene
 Concen: 9.022 ppbv
 RT: 16.78 min Scan# 4352
 Delta R.T. 0.00 min
 Lab File: VL034863.D
 Acq: 10 Mar 2020 11:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
91	82.9	64.9	97.3
134	19.9	15.9	23.9

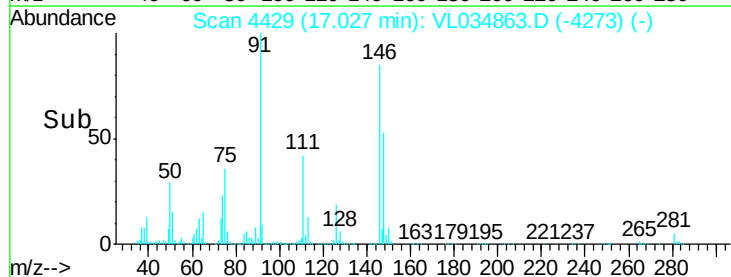
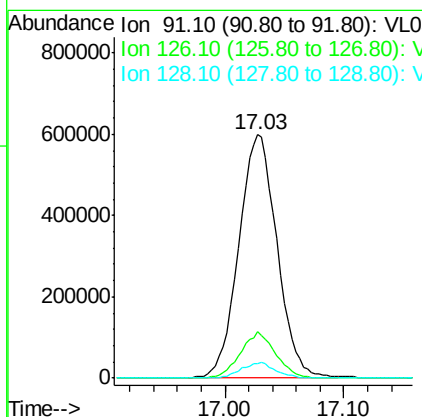
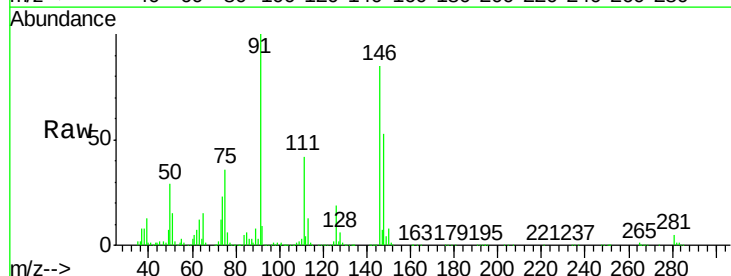
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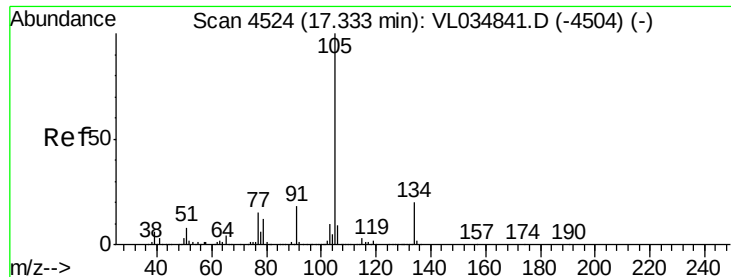
MMDadoda
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#66
 Benzyl Chloride
 Concen: 10.624 ppbv
 RT: 17.03 min Scan# 4429
 Delta R.T. 0.00 min
 Lab File: VL034863.D
 Acq: 10 Mar 2020 11:30

Tgt Ion	Ratio	Lower	Upper
91	100		
126	17.6	14.7	22.1
128	5.7	4.7	7.1





#67

sec-Butylbenzene

Concen: 9.240 ppbv

RT: 17.33 min Scan# 4523

Delta R.T. -0.00 min

Lab File: VL034863.D

Acq: 10 Mar 2020 11:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 3829114

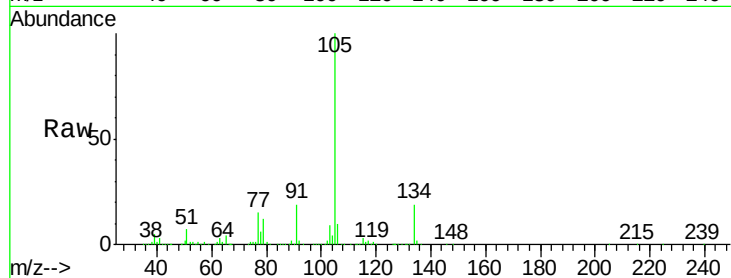
Ion Ratio Lower Upper

105 100

134 18.2 15.0 22.6

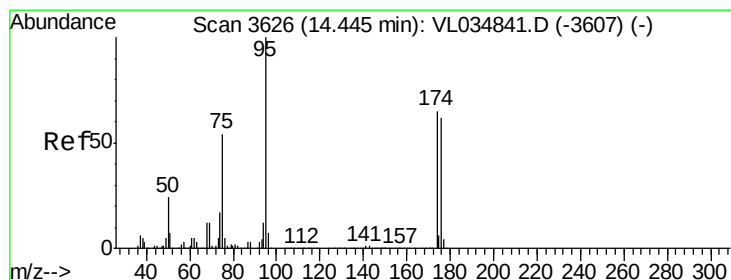
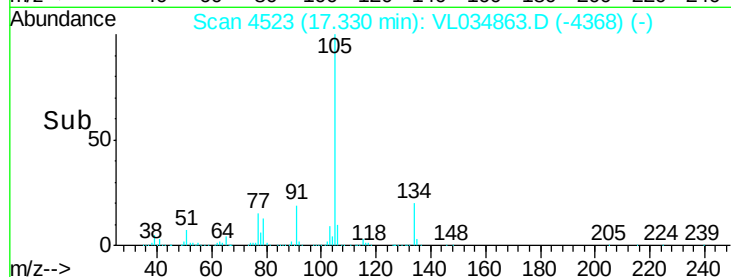
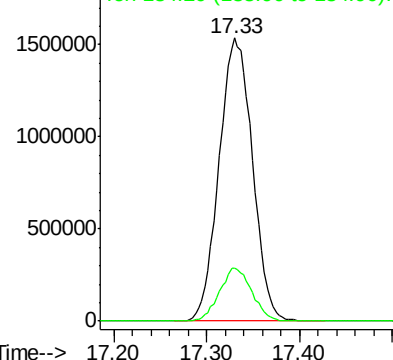
Manual Integrations
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.333 ppbv

RT: 14.45 min Scan# 3627

Delta R.T. 0.00 min

Lab File: VL034863.D

Acq: 10 Mar 2020 11:30

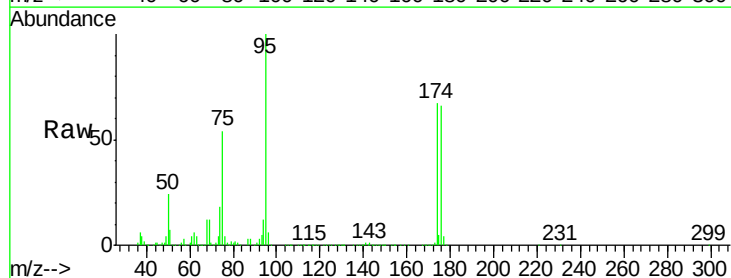
Tgt Ion: 95 Resp: 1644725

Ion Ratio Lower Upper

95 100

174 66.9 55.2 82.8

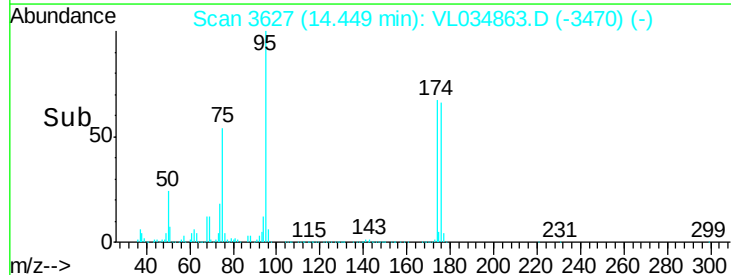
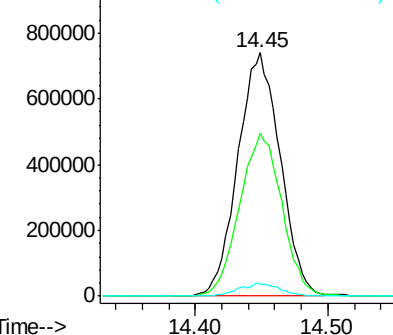
175 5.1 4.3 6.5

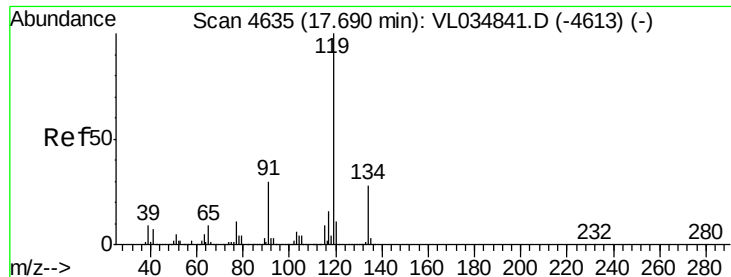


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





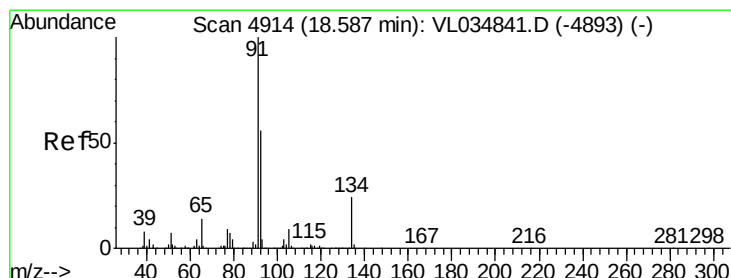
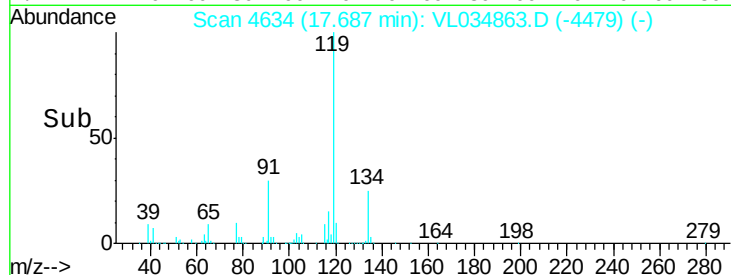
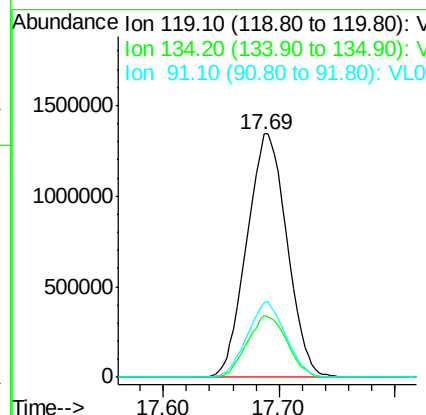
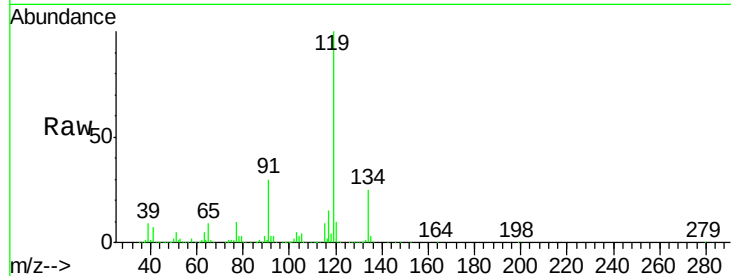
#69
 p-Isopropyltoluene
 Concen: 9.339 ppbv
 RT: 17.69 min Scan# 4634
 Delta R.T. -0.00 min
 Lab File: VL034863.D
 Acq: 10 Mar 2020 11:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.6	30.8
91	29.6	23.4	35.2

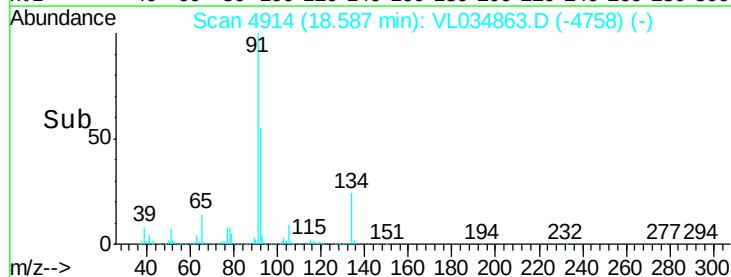
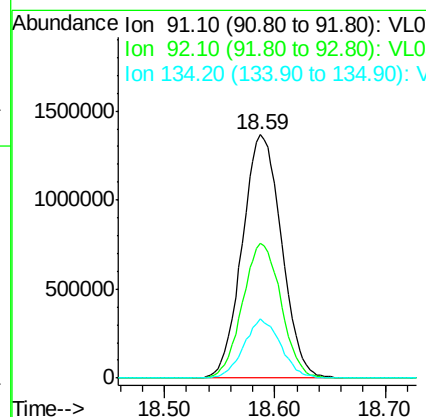
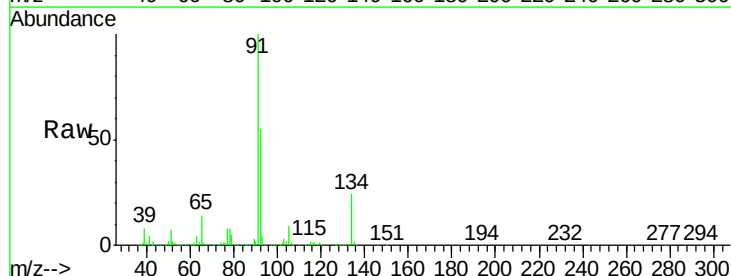
Manual Integrations
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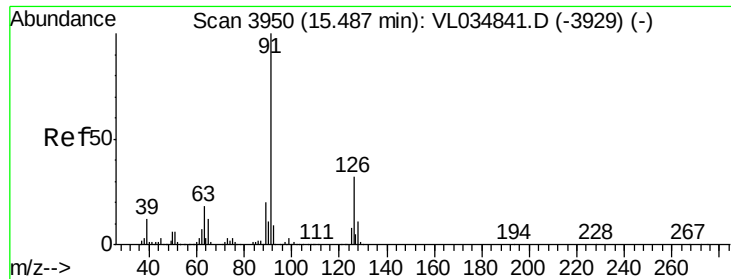
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 3/11/2020 3:17:10 PM



#70
 n-Butylbenzene
 Concen: 9.495 ppbv
 RT: 18.59 min Scan# 4914
 Delta R.T. 0.00 min
 Lab File: VL034863.D
 Acq: 10 Mar 2020 11:30

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.5	43.8	65.6
134	22.8	19.0	28.4





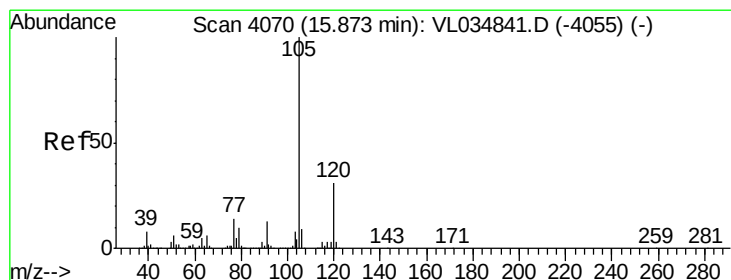
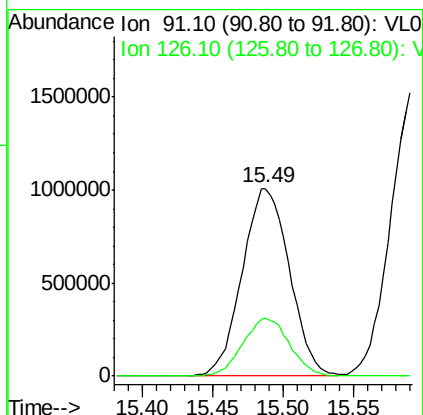
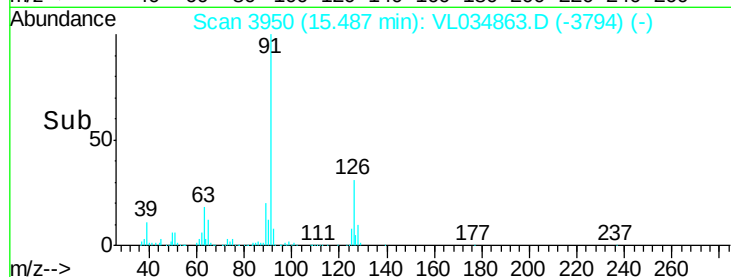
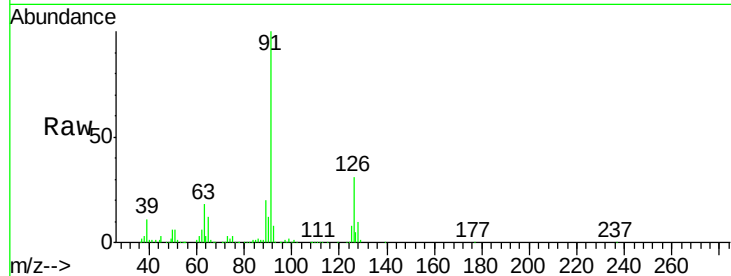
#71
 2-Chlorotoluene
 Concen: 9.114 ppbv
 RT: 15.49 min Scan# 3950
 Delta R.T. 0.00 min
 Lab File: VL034863.D
 Acq: 10 Mar 2020 11:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 91 Resp: 2359543
 Ion Ratio Lower Upper
 91 100
 126 30.5 12.3 49.1

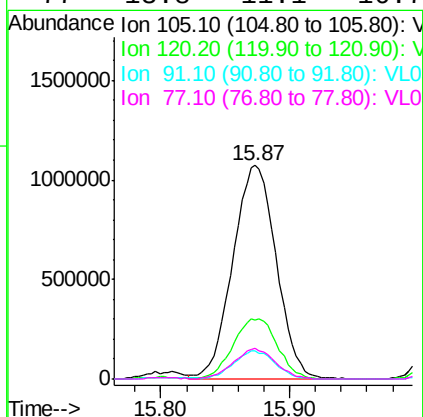
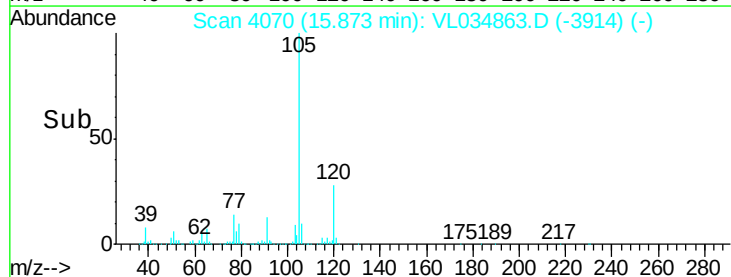
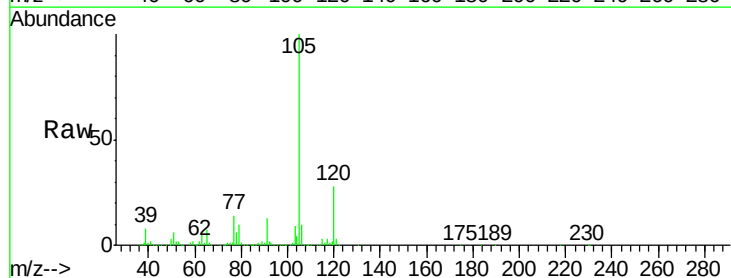
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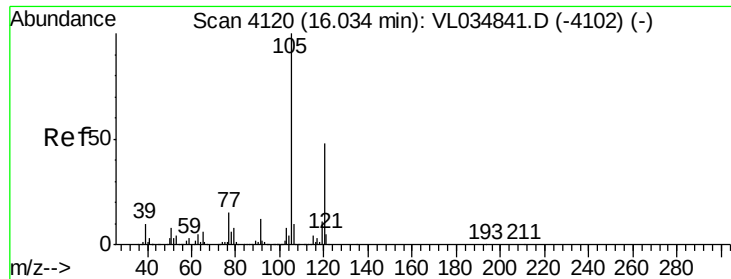
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 3/11/2020 3:17:10 PM



#72
 4-Ethyltoluene
 Concen: 9.368 ppbv
 RT: 15.87 min Scan# 4070
 Delta R.T. 0.00 min
 Lab File: VL034863.D
 Acq: 10 Mar 2020 11:30

Tgt Ion: 105 Resp: 2501360
 Ion Ratio Lower Upper
 105 100
 120 29.1 23.7 35.5
 91 12.8 10.5 15.7
 77 13.8 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 9.435 ppbv

RT: 16.03 min Scan# 4120

Delta R.T. 0.00 min

Lab File: VL034863.D

Acq: 10 Mar 2020 11:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 2358301

Ion Ratio Lower Upper

105 100

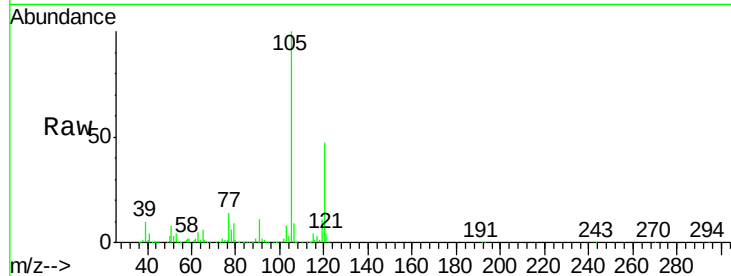
120 46.6 38.6 58.0

Manual Integrations

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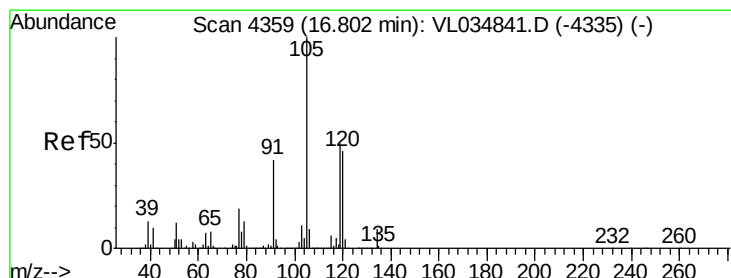
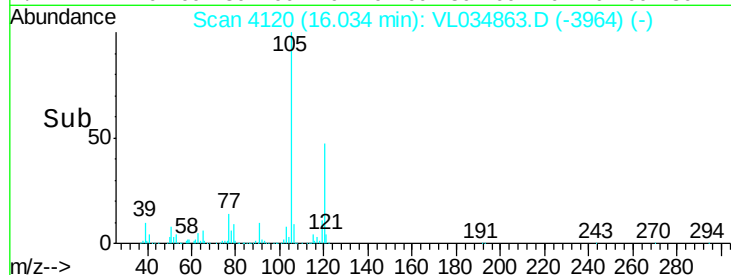
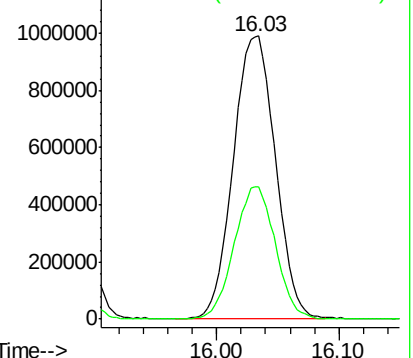
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 9.430 ppbv

RT: 16.80 min Scan# 4358

Delta R.T. -0.00 min

Lab File: VL034863.D

Acq: 10 Mar 2020 11:30

Tgt Ion:105 Resp: 2428342

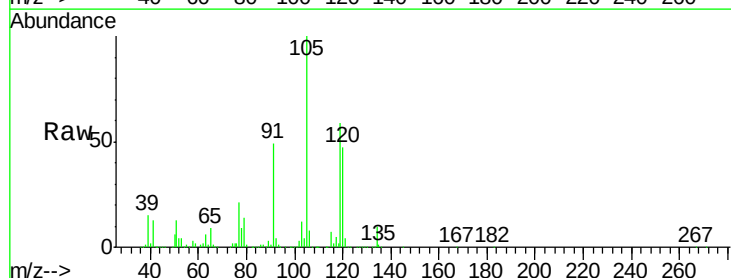
Ion Ratio Lower Upper

105 100

120 47.2 37.0 55.4

91 48.6 33.8 50.6

77 20.8 15.4 23.0

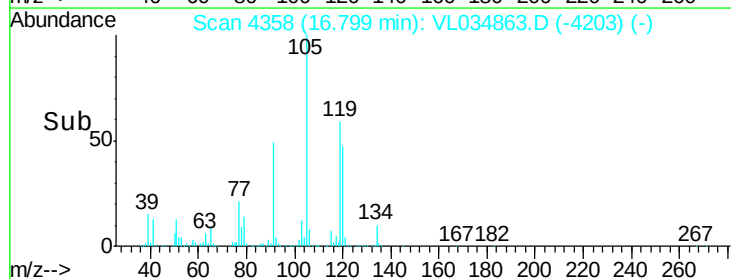
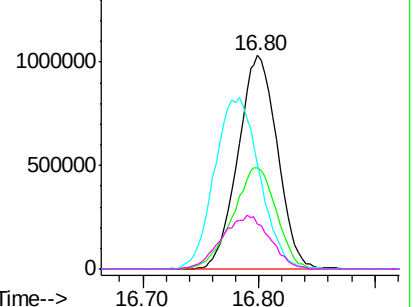


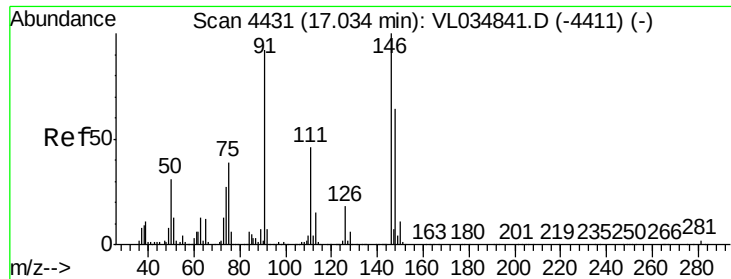
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





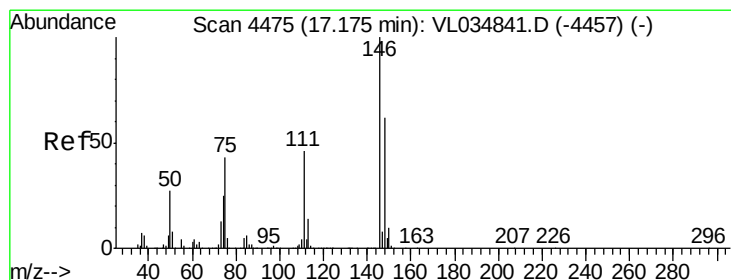
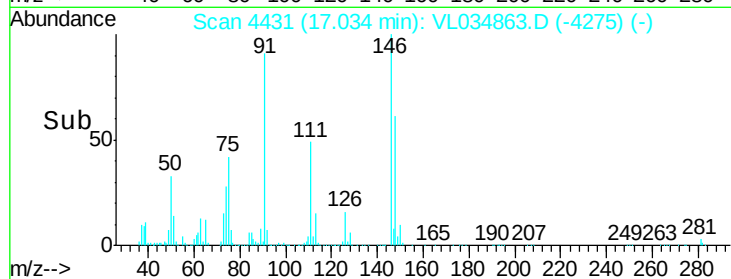
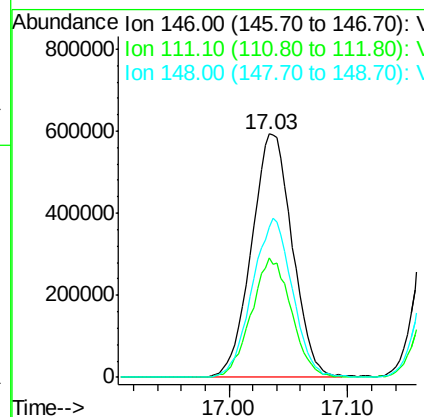
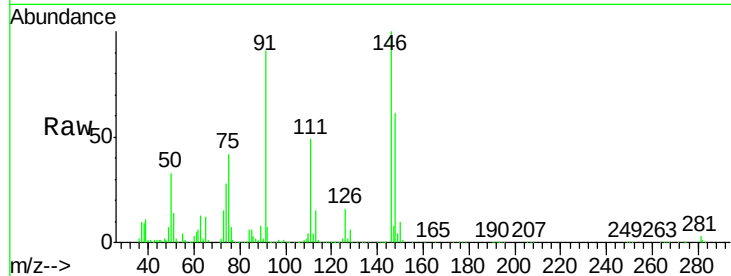
#75
 1,3-Dichlorobenzene
 Concen: 9.075 ppbv
 RT: 17.03 min Scan# 4431
 Delta R.T. 0.00 min
 Lab File: VL034863.D
 Acq: 10 Mar 2020 11:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.7	23.9	71.7
148	64.0	32.5	97.5

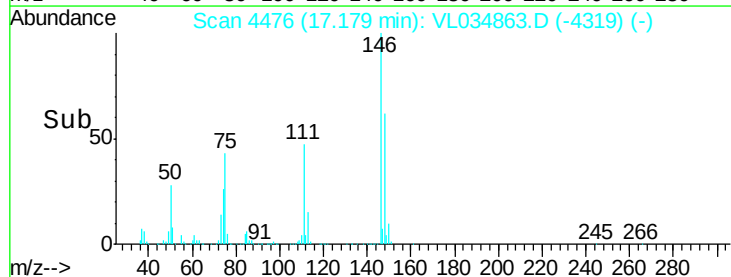
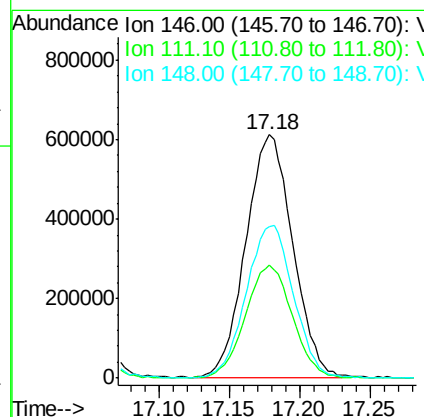
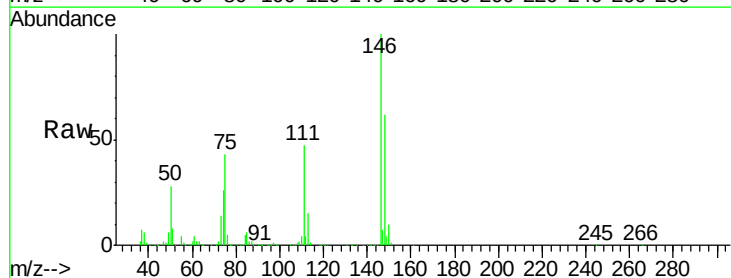
Manual Integrations
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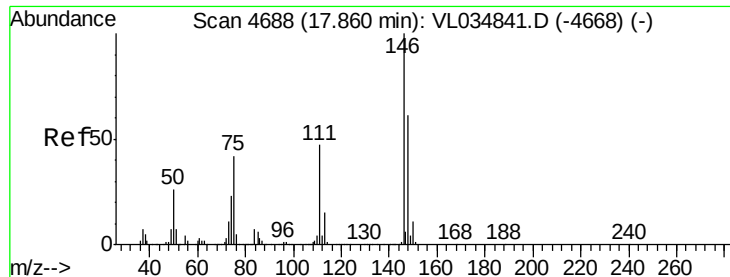
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#76
 1,4-Dichlorobenzene
 Concen: 9.146 ppbv
 RT: 17.18 min Scan# 4476
 Delta R.T. 0.00 min
 Lab File: VL034863.D
 Acq: 10 Mar 2020 11:30

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.4	23.4	70.2
148	63.7	32.3	96.9





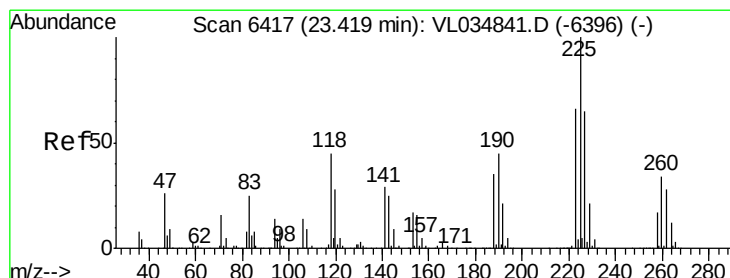
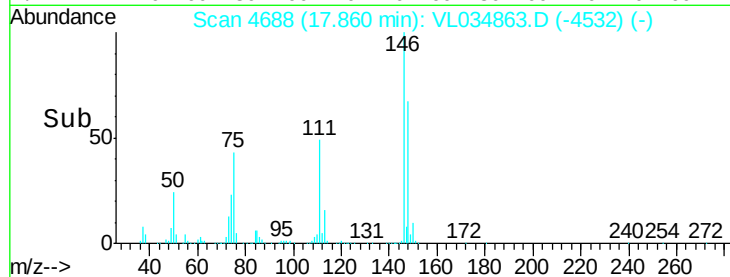
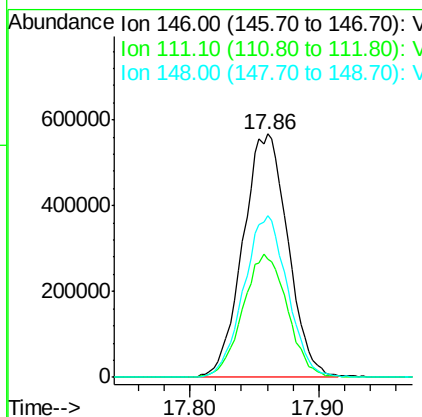
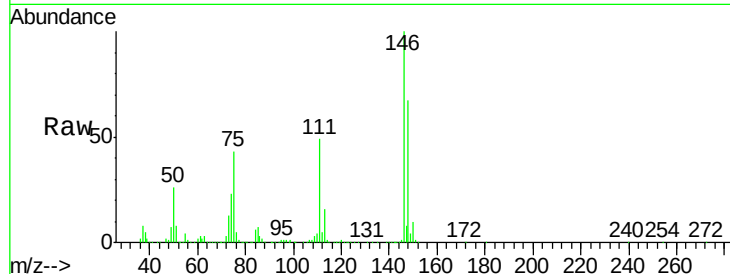
#77
 1,2-Dichlorobenzene
 Concen: 9.178 ppbv
 RT: 17.86 min Scan# 4688
 Delta R.T. 0.00 min
 Lab File: VL034863.D
 Acq: 10 Mar 2020 11:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:146 Resp: 1381345
 Ion Ratio Lower Upper
 146 100
 111 50.0 23.8 71.4
 148 64.6 31.6 94.8

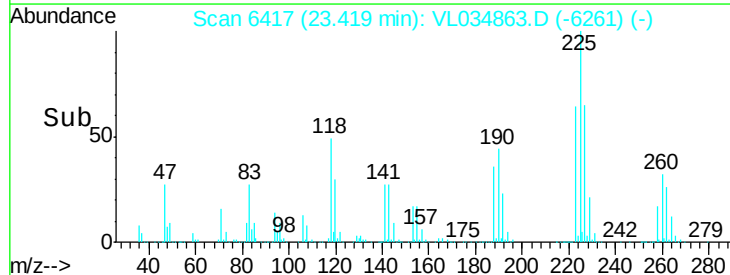
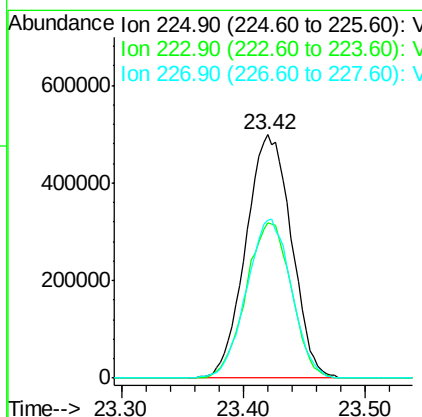
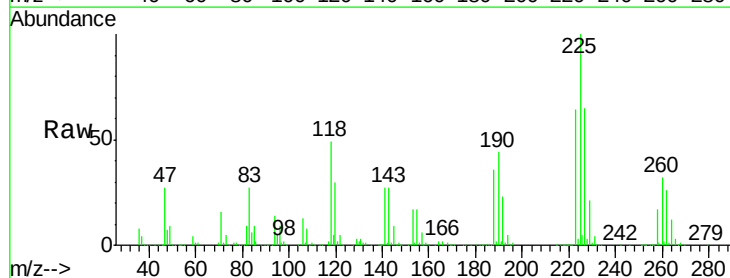
Manual Integrations
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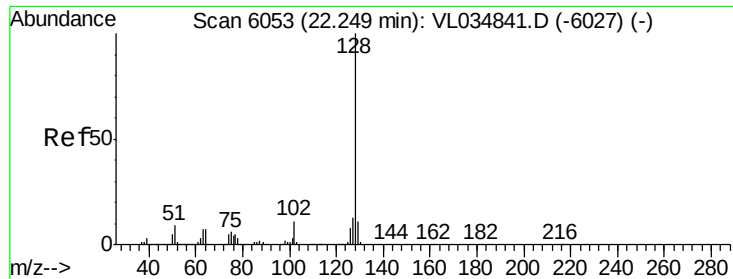
MMDadoda
 3/11/2020 3:17:10 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 10.256 ppbv
 RT: 23.42 min Scan# 6417
 Delta R.T. 0.00 min
 Lab File: VL034863.D
 Acq: 10 Mar 2020 11:30

Tgt Ion:225 Resp: 1289345
 Ion Ratio Lower Upper
 225 100
 223 63.6 51.1 76.7
 227 64.4 51.8 77.6





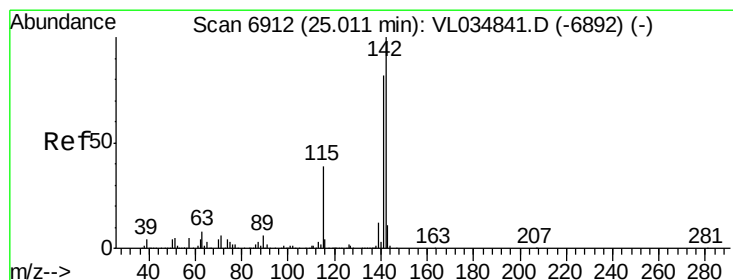
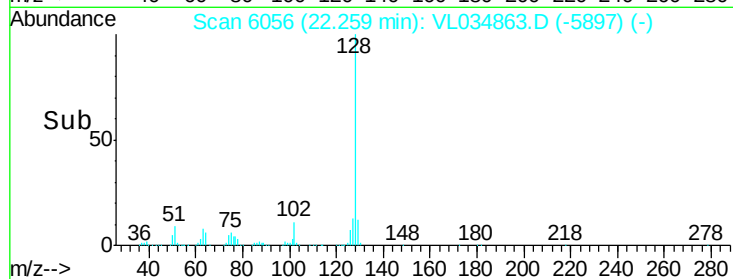
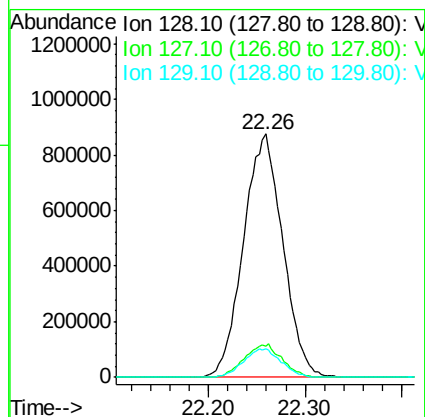
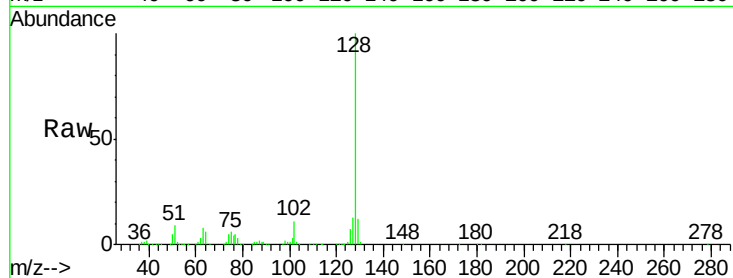
#79
Naphthalene
Concen: 12.316 ppbv
RT: 22.26 min Scan# 6056
Delta R.T. 0.01 min
Lab File: VL034863.D
Acq: 10 Mar 2020 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.2	15.2
129	11.8	8.6	13.0

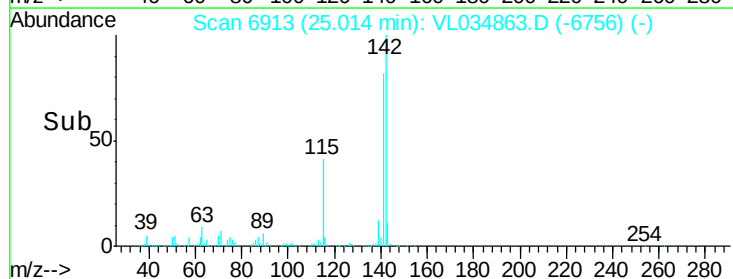
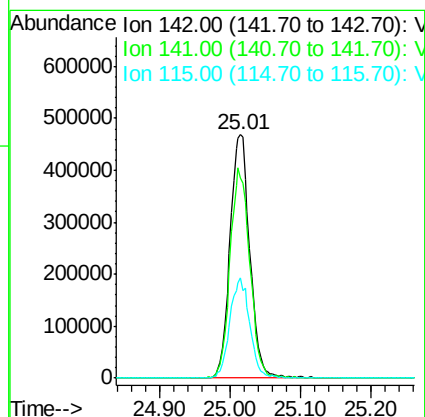
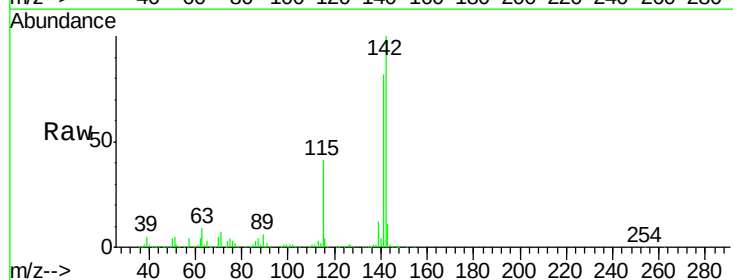
Manual Integrations
APPROVED

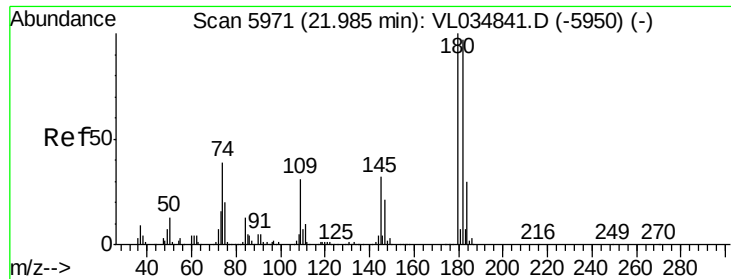
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3/11/2020 3:17:10 PM



#80
Naphthalene, 2-methyl-
Concen: 17.552 ppbv
RT: 25.01 min Scan# 6913
Delta R.T. 0.00 min
Lab File: VL034863.D
Acq: 10 Mar 2020 11:30

Tgt Ion	Ratio	Lower	Upper
142	100		
141	86.0	68.9	103.3
115	41.7	33.2	49.8





#81
 1,2,4-Trichlorobenzene
 Concen: 11.092 ppbv
 RT: 21.99 min Scan# 5972
 Delta R.T. 0.00 min
 Lab File: VL034863.D
 Acq: 10 Mar 2020 11:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.2	76.6	115.0
184	31.5	25.0	37.4

Manual Integrations
 APPROVED

MMDadoda
 3/11/2020 3:17:10 PM

