

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031720\
 Data File : VL034925.D
 Acq On : 17 Mar 2020 21:22
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 3/18/2020 5:35:56 PM

Quant Time: Mar 18 08:48:15 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	1044766	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2244015	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2386196m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1892000	10.17	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	1687045	11.792	ppbv	99
3) Chlorodifluoromethane	2.94	51	1066704	9.140	ppbv	97
4) Chloromethane	3.10	50	642934	9.747	ppbv	99
5) Vinyl Chloride	3.22	62	588033	9.273	ppbv	92
6) Bromomethane	3.44	94	353647	9.580	ppbv	95
7) Chloroethane	3.52	64	217518	9.499	ppbv	96
8) Dichlorotetrafluoroethane	3.15	85	1339042	9.012	ppbv	96
9) Propene	2.97	41	482909	8.666	ppbv	99
10) Heptane	8.13	43	1300313	9.482	ppbv	99
11) Trichlorofluoromethane	3.92	101	1398865	9.190	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.46	101	985428	9.251	ppbv	95
13) Ethanol	3.57	45	129860	7.666	ppbv	91
14) Bromoethene	3.71	108	424890	9.235	ppbv	100
15) Acetone	3.82	43	1283800	9.481	ppbv	98
16) 1,3-Butadiene	3.29	39	567363	9.265	ppbv	99
17) tert-Butyl alcohol	4.27	59	920511	7.056	ppbv	97
18) 1,1-Dichloroethene	4.26	96	454781	9.640	ppbv	98
19) Isopropyl Alcohol	3.94	45	677611	7.924	ppbv #	42
20) Methylene Chloride	4.32	84	392305	9.163	ppbv	95
21) Allyl Chloride	4.38	41	793618	9.126	ppbv	99
22) trans-1,2-Dichloroethene	4.87	96	450802	9.419	ppbv	99
23) Vinyl Acetate	5.06	43	1830365	9.151	ppbv	98
24) 1,1-Dichloroethane	4.99	63	1216921	9.075	ppbv	100
25) Ethyl Acetate	5.67	43	2159679	8.952	ppbv	100
26) Hexane	5.67	57	947778	9.123	ppbv	100
27) Carbon Disulfide	4.53	76	1149907	9.755	ppbv	98
28) Methyl tert-Butyl Ether	5.01	73	1412385	8.171	ppbv	100
29) Chloroform	5.74	83	1464074	9.237	ppbv	96
30) Cyclohexane	7.13	84	789985	9.114	ppbv	99
31) cis-1,2-Dichloroethene	5.54	61	960481	9.041	ppbv	97
32) 1,1,1-Trichloroethane	6.51	97	1389145	8.995	ppbv	97
34) 2-Butanone	5.23	43	1437322	9.638	ppbv	100
35) Carbon Tetrachloride	7.02	117	1436868	10.295	ppbv	98
36) Benzene	6.89	78	1920295	9.600	ppbv	98
37) 1,2-Dichloroethane	6.30	62	1150672	10.203	ppbv	99
38) Trichloroethene	7.84	130	707418	9.312	ppbv	94
39) 1,2-Dichloropropane	7.62	63	742883	9.374	ppbv	96
40) 1,4-Dioxane	7.83	88	265446	8.869	ppbv #	93
41) Tetrahydrofuran	6.04	42	800529	9.921	ppbv	100
42) Bromodichloromethane	7.80	83	1548443	10.074	ppbv	99
43) Methyl Methacrylate	8.02	69	873314	10.364	ppbv	97

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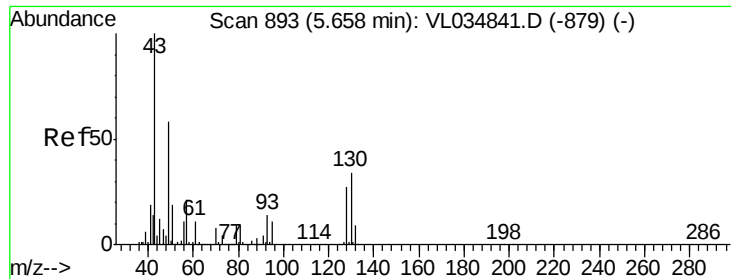
Manual Integrations
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Quant Time: Mar 18 08:48:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 0
 QLast Update : Mon Mar 09 16:42:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	3332949	9.861	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	985518	9.954	ppbv	97
46) cis-1,3-Dichloropropene	8.72	75	1160256	9.862	ppbv	97
47) 1,1,2-Trichloroethane	9.49	97	778681	9.574	ppbv	96
48) Dibromochloromethane	10.33	129	1260995	9.574	ppbv	98
49) Bromoform	13.07	173	1066219	9.079	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	2158844	10.057	ppbv	100
51) 2-Hexanone	10.15	43	1728814	9.910	ppbv #	100
52) Tetrachloroethene	11.24	164	657753	8.312	ppbv	99
53) Toluene	9.82	91	2203075	9.538	ppbv	99
54) 1,2-Dibromoethane	10.63	107	1156952	9.450	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.15	131	943728m	8.804	ppbv	
57) Chlorobenzene	12.17	112	1615193	8.651	ppbv	95
58) Ethyl Benzene	12.73	91	2920675	9.038	ppbv	98
59) m/p-Xylene	13.02	91	4827501m	17.832	ppbv	
60) o-Xylene	13.72	91	2372747	8.976	ppbv	99
61) Styrene	13.55	104	1700020	9.164	ppbv	99
62) Isopropylbenzene	14.70	105	3489477	8.730	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.71	83	1649235	9.191	ppbv	99
64) n-propylbenzene	15.59	120	903447	8.685	ppbv	91
65) tert-Butylbenzene	16.78	119	2965064	8.486	ppbv	97
66) Benzyl Chloride	17.03	91	1253788	8.606	ppbv	96
67) sec-Butylbenzene	17.33	105	4312798	8.902	ppbv	98
69) p-Isopropyltoluene	17.69	119	3579880	8.812	ppbv	99
70) n-Butylbenzene	18.59	91	3831080	9.243	ppbv	99
71) 2-Chlorotoluene	15.48	91	2667608	8.813	ppbv	97
72) 4-Ethyltoluene	15.87	105	2811730	9.007	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	2637772	9.027	ppbv	95
74) 1,2,4-Trimethylbenzene	16.80	105	2752212	9.142	ppbv	97
75) 1,3-Dichlorobenzene	17.03	146	1572432	8.662	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	1576019	8.700	ppbv	100
77) 1,2-Dichlorobenzene	17.86	146	1565692	8.898	ppbv	99
78) Hexachloro-1,3-Butadiene	23.42	225	1373202	9.343	ppbv	99
79) Naphthalene	22.25	128	2706069	11.526	ppbv	98
80) Naphthalene, 2-methyl-	25.01	142	1007803	16.425	ppbv	99
81) 1,2,4-Trichlorobenzene	21.98	180	1540171m	10.325	ppbv	

(#) = 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: VL034925.D

Acq: 17 Mar 2020 21:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 1044766

Ion Ratio Lower Upper

49 100

128 44.1 23.4 70.3

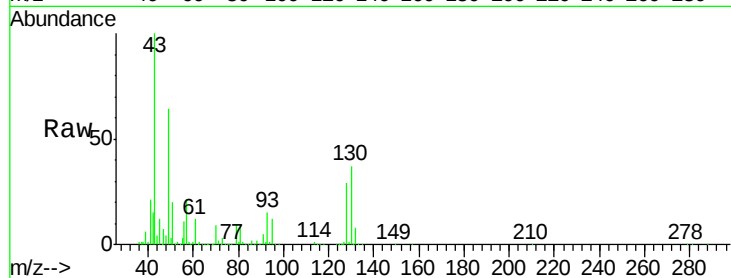
130 56.4 30.0 90.0

Manual Integrations

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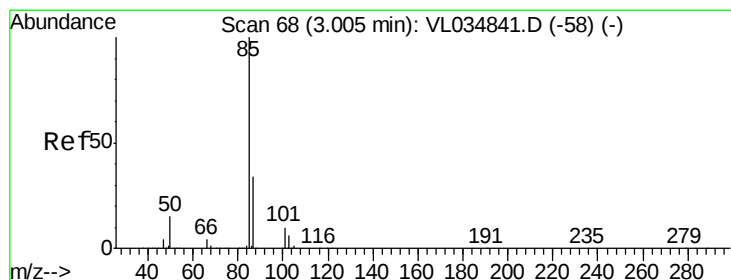
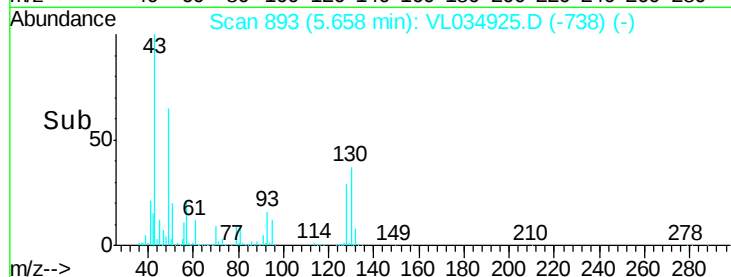
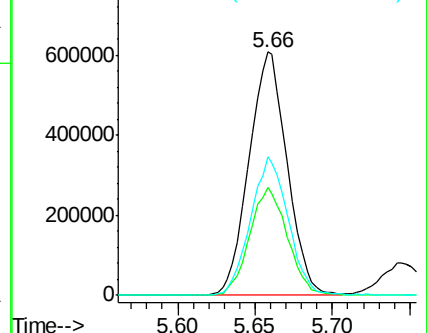
3/18/2020 5:35:56 PM



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: 11.792 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.00 min

Lab File: VL034925.D

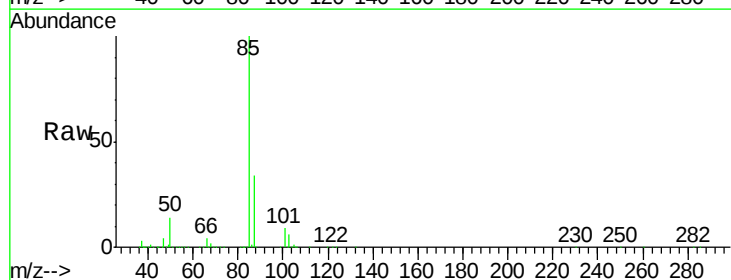
Acq: 17 Mar 2020 21:22

Tgt Ion: 85 Resp: 1687045

Ion Ratio Lower Upper

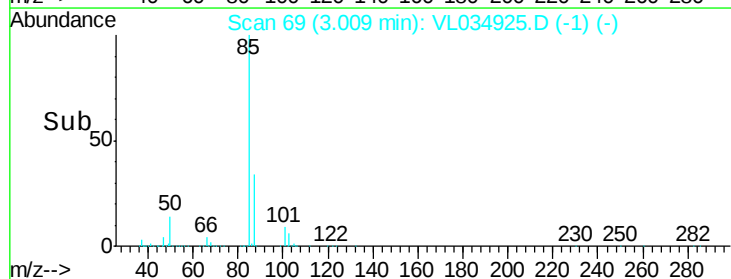
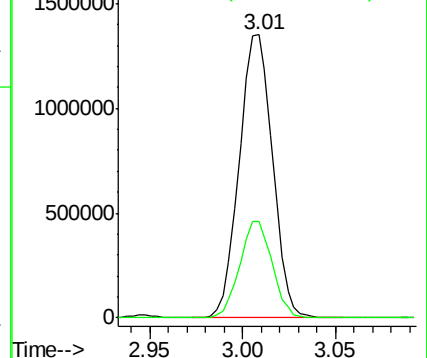
85 100

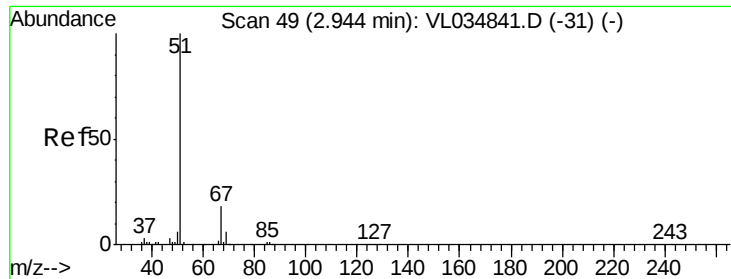
87 34.1 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.140 ppbv

RT: 2.94 min Scan# 49

Delta R.T. -0.00 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 1066704

Ion Ratio Lower Upper

51 100

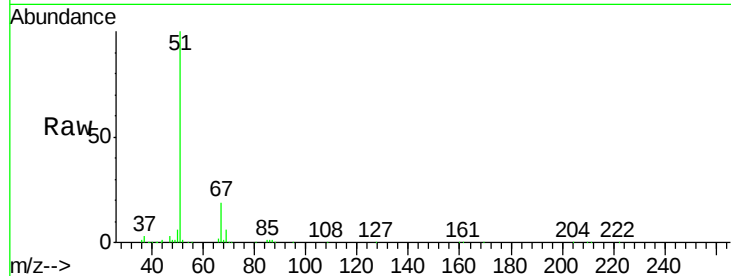
67 19.2 14.3 21.5

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

800000

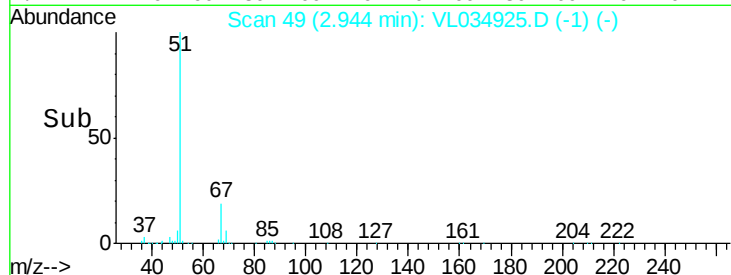
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400000

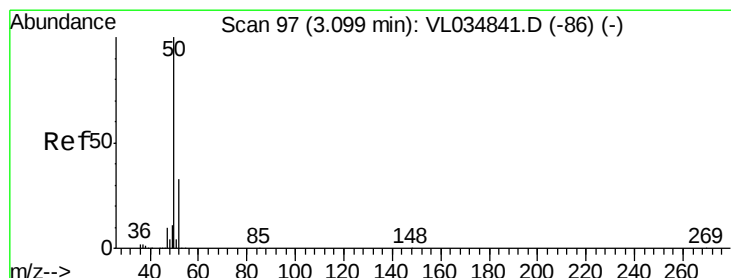
200000

0

Time-->



Time-->



#4

Chloromethane

Concen: 9.747 ppbv

RT: 3.10 min Scan# 97

Delta R.T. -0.00 min

Lab File: VL034925.D

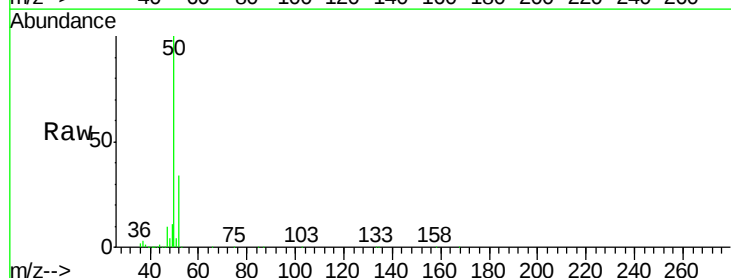
Acq: 17 Mar 2020 21:22

Tgt Ion: 50 Resp: 642934

Ion Ratio Lower Upper

50 100

52 33.9 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

500000

400000

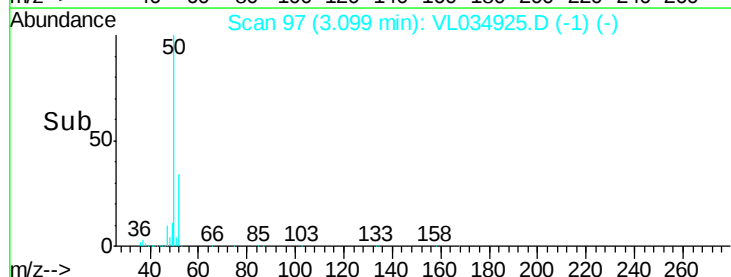
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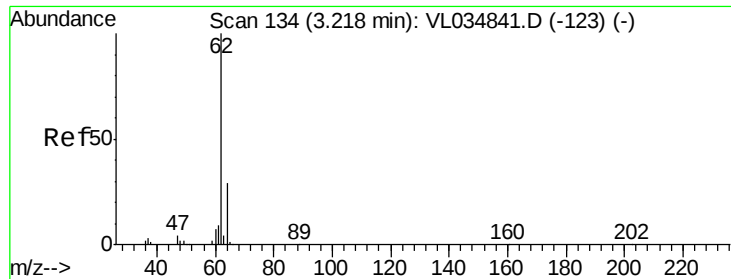
200000

100000

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Time-->





#5

Vinyl Chloride

Concen: 9.273 ppbv

RT: 3.22 min Scan# 134

Delta R.T. -0.00 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 588033

Ion Ratio Lower Upper

62 100

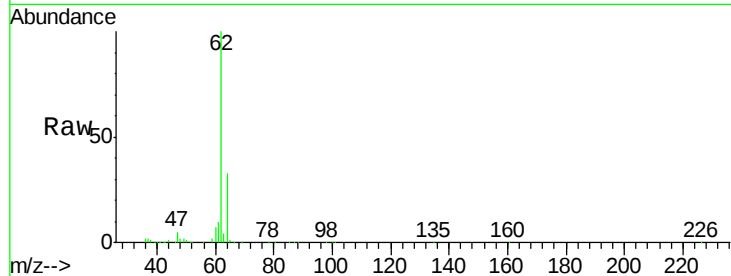
64 33.0 23.0 34.4

Manual Integrations

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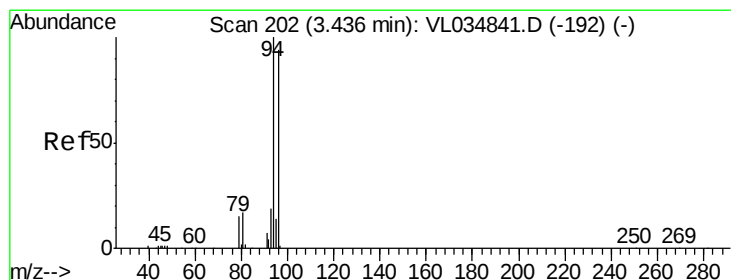
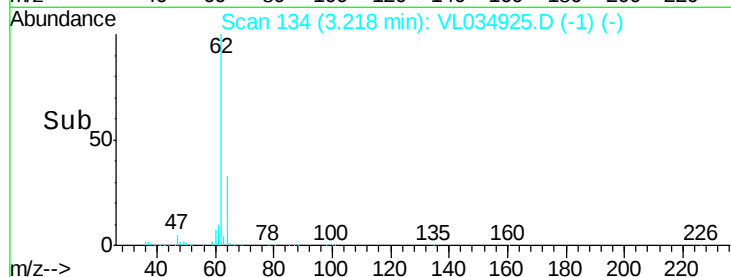
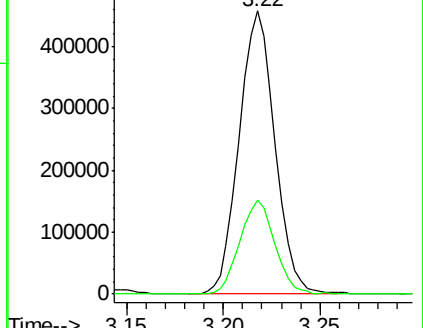
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.580 ppbv

RT: 3.44 min Scan# 202

Delta R.T. -0.00 min

Lab File: VL034925.D

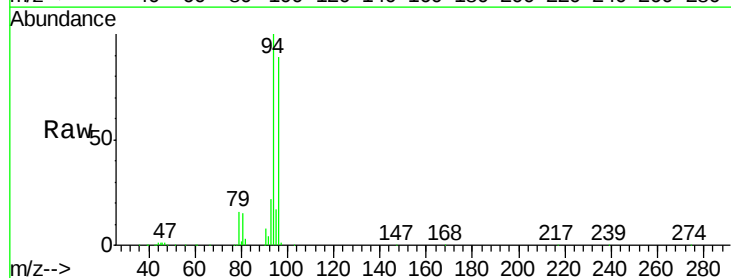
Acq: 17 Mar 2020 21:22

Tgt Ion: 94 Resp: 353647

Ion Ratio Lower Upper

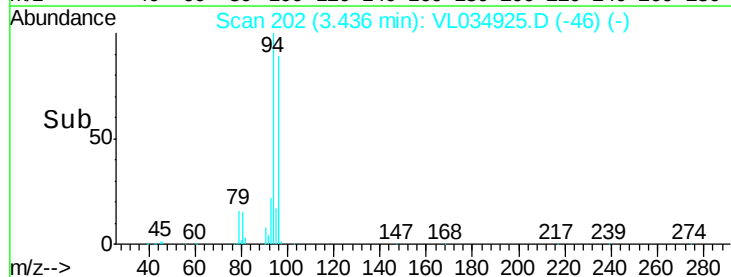
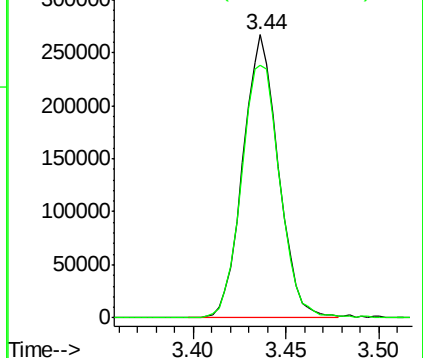
94 100

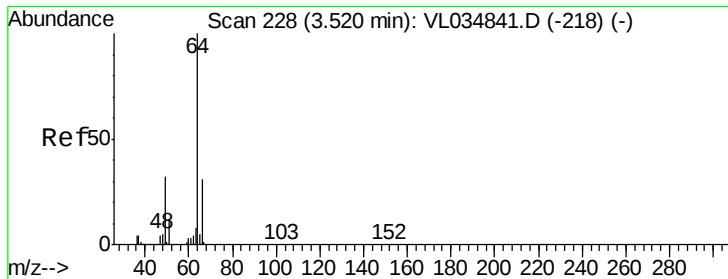
96 89.1 75.5 113.3



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.499 ppbv

RT: 3.52 min Scan# 228

Delta R.T. -0.00 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 217518

Ion Ratio Lower Upper

64 100

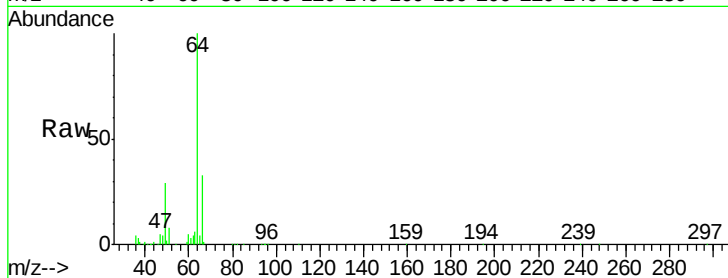
66 33.1 24.8 37.2

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.52

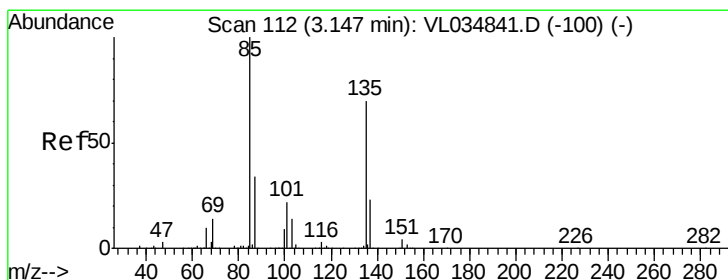
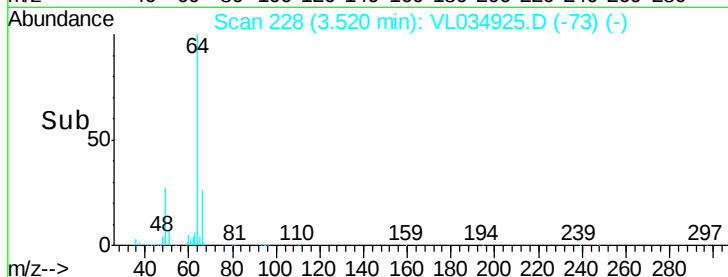
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.012 ppbv

RT: 3.15 min Scan# 112

Delta R.T. -0.00 min

Lab File: VL034925.D

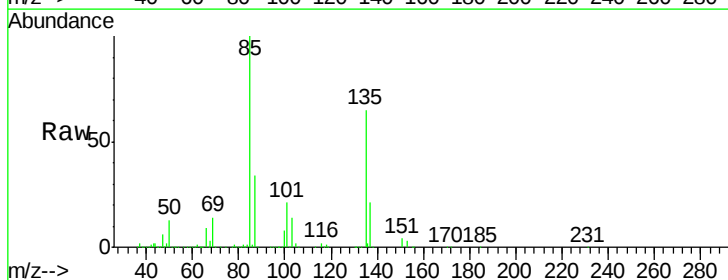
Acq: 17 Mar 2020 21:22

Tgt Ion: 85 Resp: 1339042

Ion Ratio Lower Upper

85 100

135 64.6 54.3 81.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.15

1200000

1000000

800000

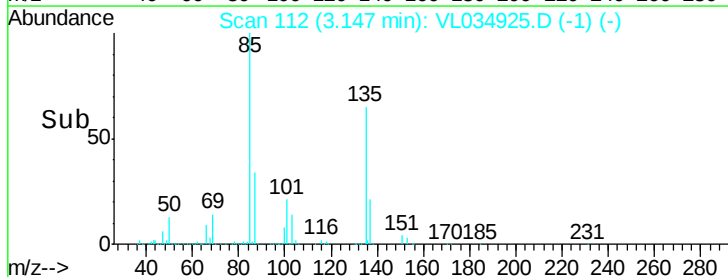
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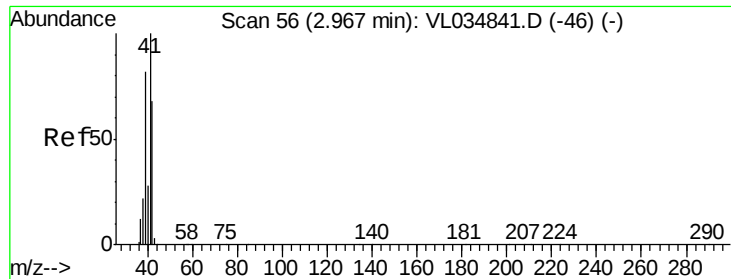
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Time-->





#9

Propene

Concen: 8.666 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.00 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 482909

Ion Ratio Lower Upper

41 100

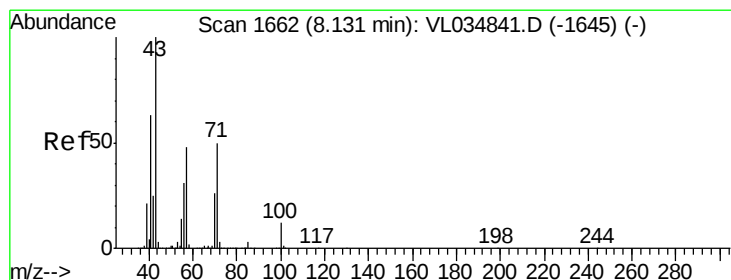
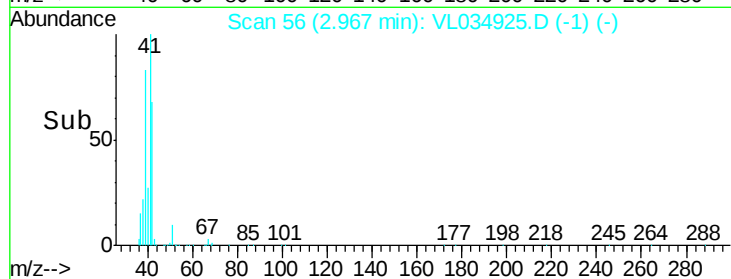
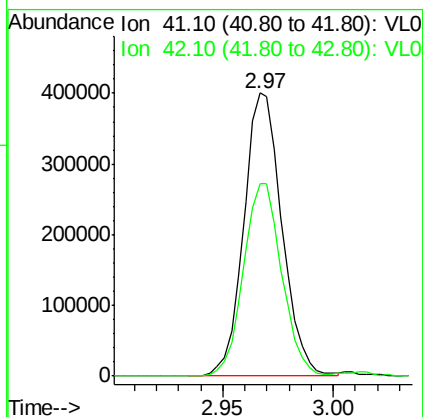
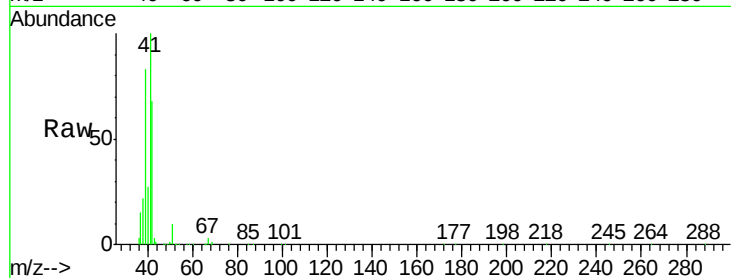
42 69.5 55.2 82.8

Manual Integrations

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#10

Heptane

Concen: 9.482 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. -0.00 min

Lab File: VL034925.D

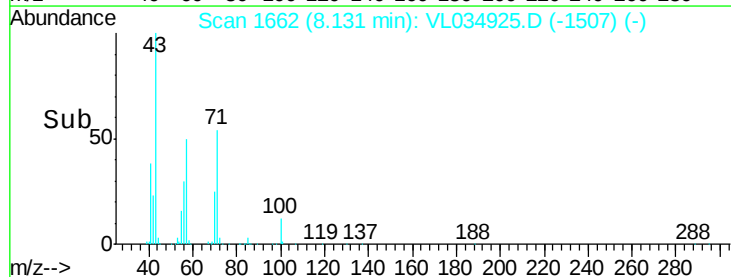
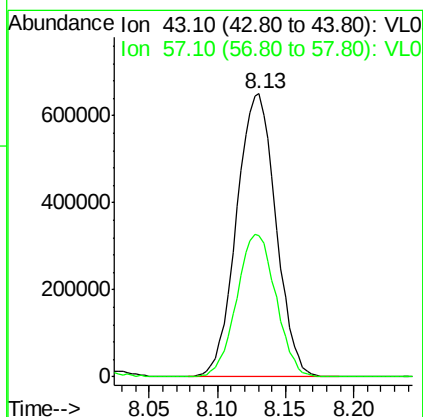
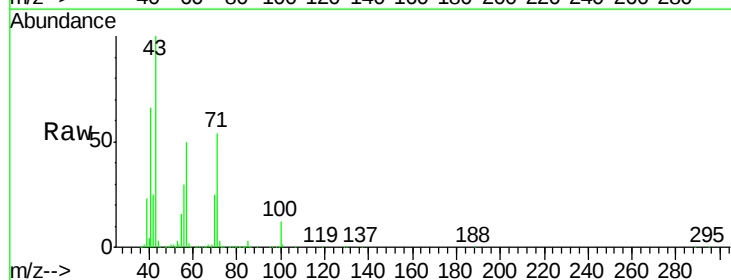
Acq: 17 Mar 2020 21:22

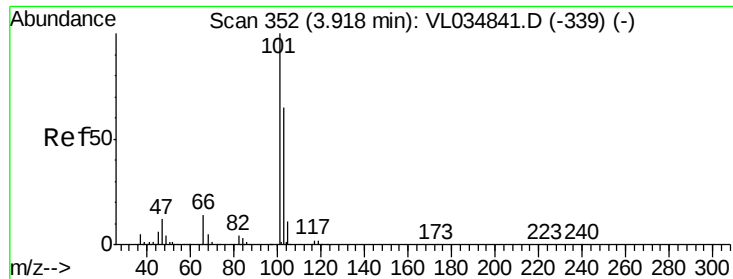
Tgt Ion: 43 Resp: 1300313

Ion Ratio Lower Upper

43 100

57 50.3 39.7 59.5





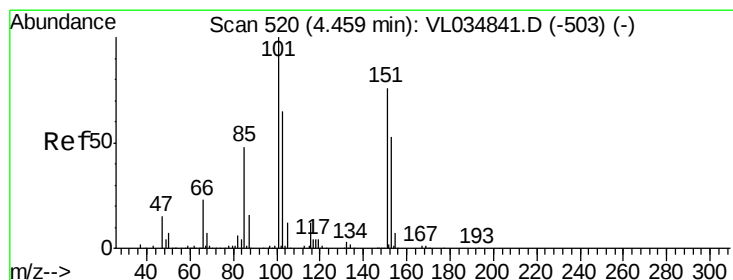
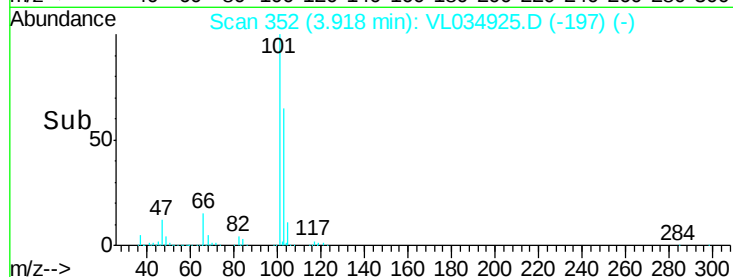
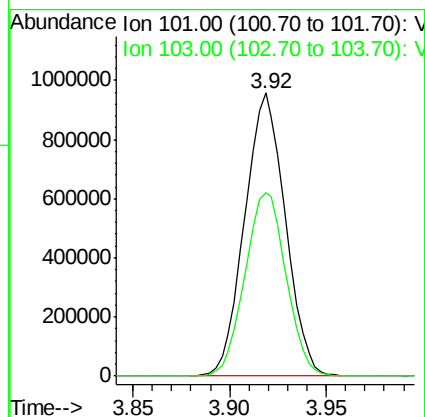
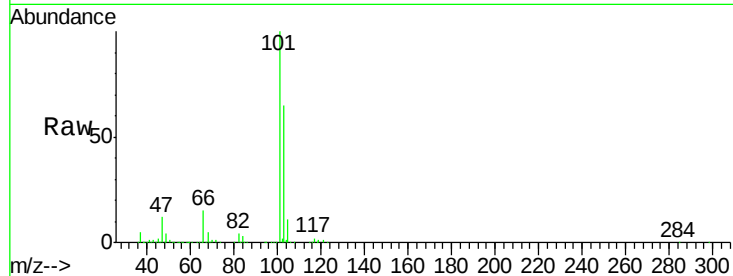
#11
 Trichlorofluoromethane
 Concen: 9.190 ppbv
 RT: 3.92 min Scan# 352
 Delta R.T. -0.00 min
 Lab File: VL034925.D
 Acq: 17 Mar 2020 21:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1398865
 Ion Ratio Lower Upper
 101 100
 103 64.9 51.8 77.8

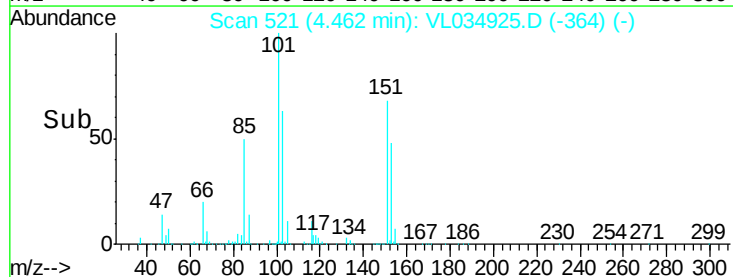
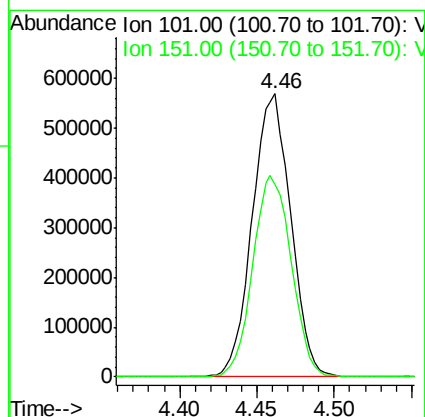
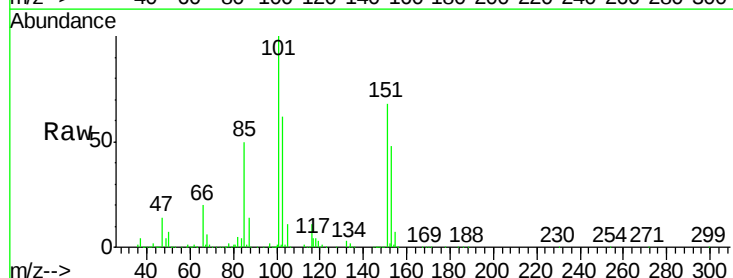
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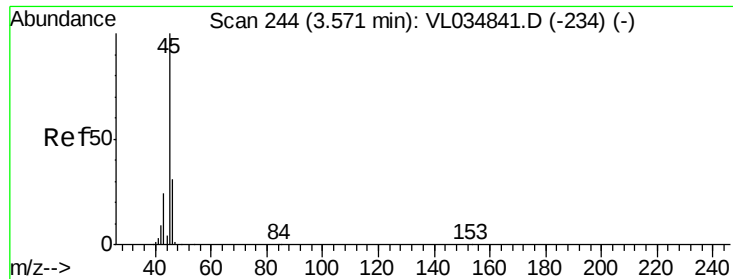
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.251 ppbv
 RT: 4.46 min Scan# 521
 Delta R.T. 0.00 min
 Lab File: VL034925.D
 Acq: 17 Mar 2020 21:22

Tgt Ion:101 Resp: 985428
 Ion Ratio Lower Upper
 101 100
 151 71.4 60.8 91.2





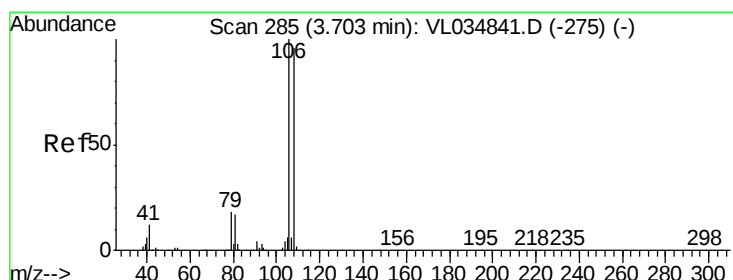
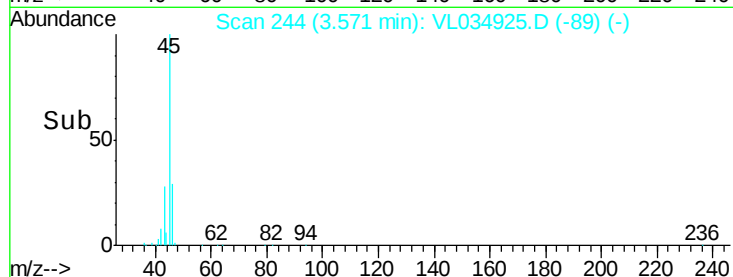
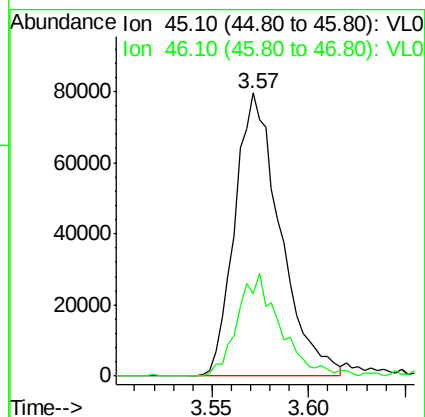
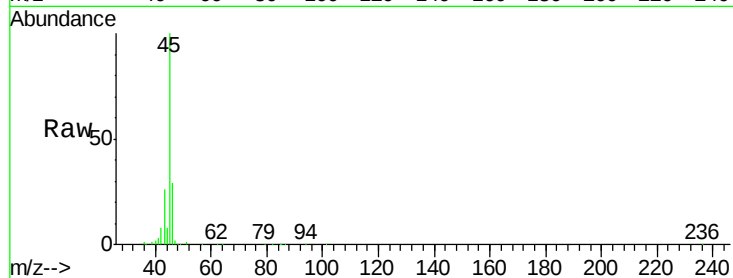
#13
Ethanol
Concen: 7.666 ppbv
RT: 3.57 min Scan# 244
Delta R.T. -0.00 min
Lab File: VL034925.D
Acq: 17 Mar 2020 21:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 45 Resp: 129860
Ion Ratio Lower Upper
45 100
46 34.4 16.0 64.0

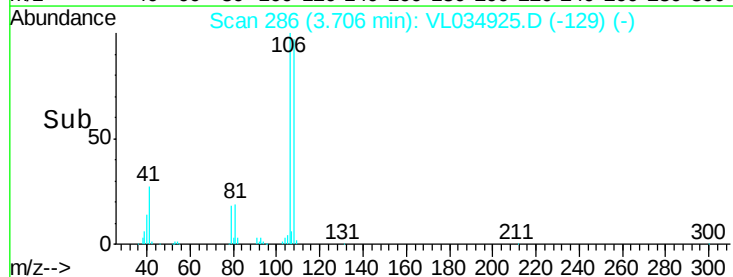
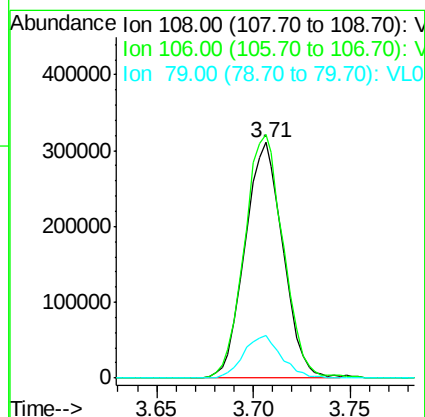
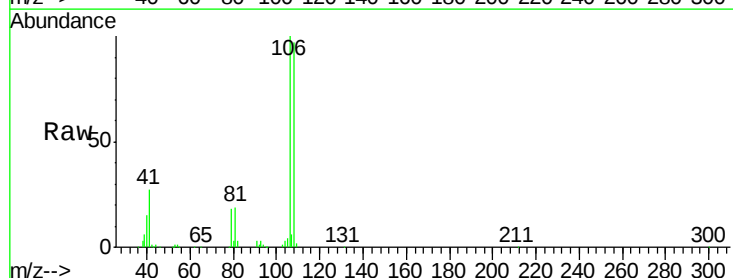
Manual Integrations
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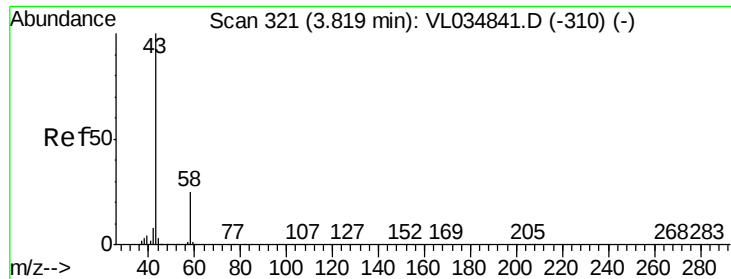
MMDadoda
3/18/2020 5:35:56 PM



#14
Bromoethene
Concen: 9.235 ppbv
RT: 3.71 min Scan# 286
Delta R.T. 0.00 min
Lab File: VL034925.D
Acq: 17 Mar 2020 21:22

Tgt Ion: 108 Resp: 424890
Ion Ratio Lower Upper
108 100
106 106.3 85.1 127.7
79 18.4 14.7 22.1





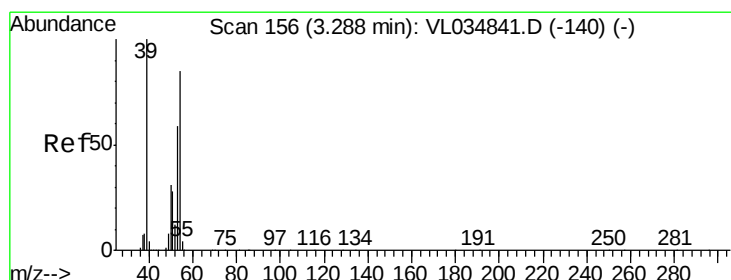
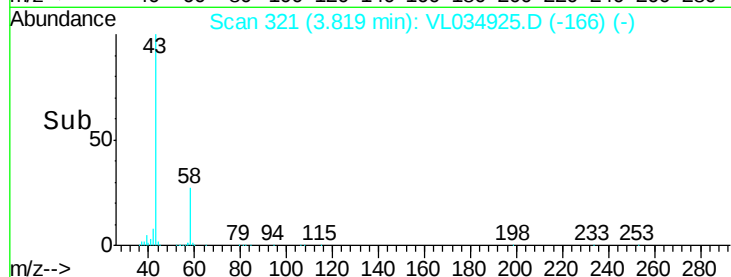
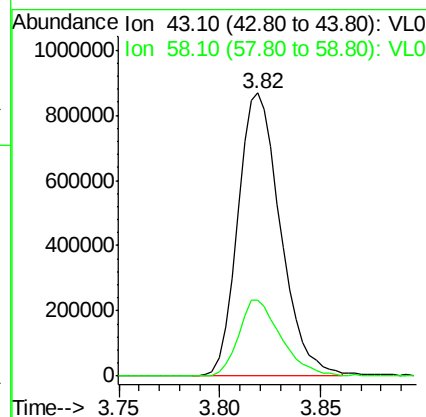
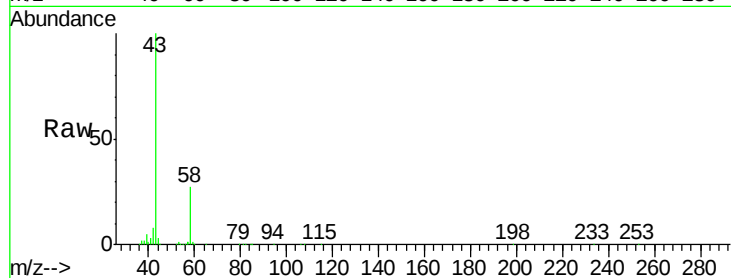
#15
Acetone
Concen: 9.481 ppbv
RT: 3.82 min Scan# 321
Delta R.T. -0.00 min
Lab File: VL034925.D
Acq: 17 Mar 2020 21:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1283800
Ion Ratio Lower Upper
43 100
58 27.1 21.0 31.6

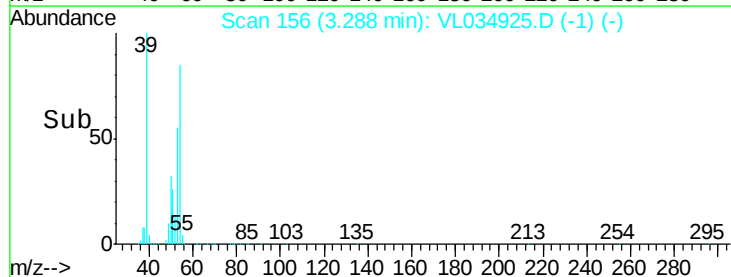
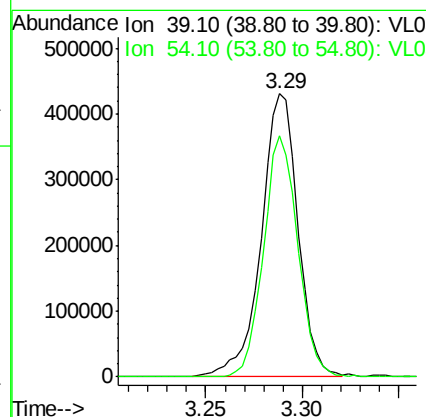
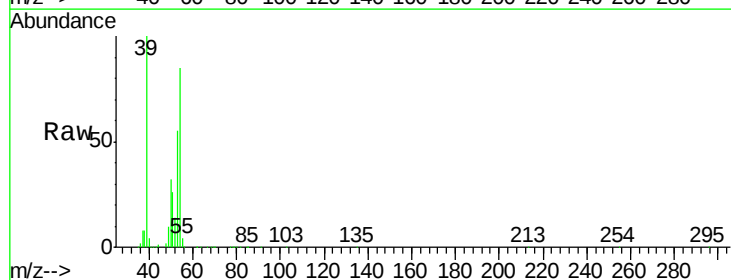
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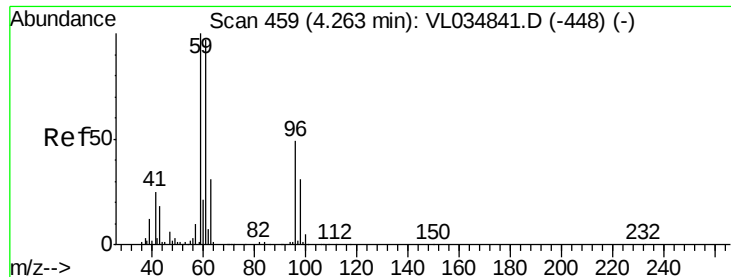
MMDadoda
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#16
1,3-Butadiene
Concen: 9.265 ppbv
RT: 3.29 min Scan# 156
Delta R.T. -0.00 min
Lab File: VL034925.D
Acq: 17 Mar 2020 21:22

Tgt Ion: 39 Resp: 567363
Ion Ratio Lower Upper
39 100
54 80.2 65.0 97.6





#17

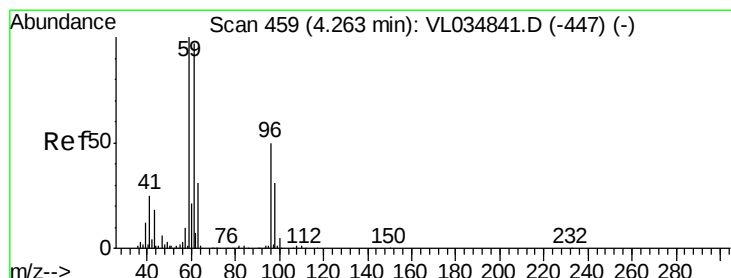
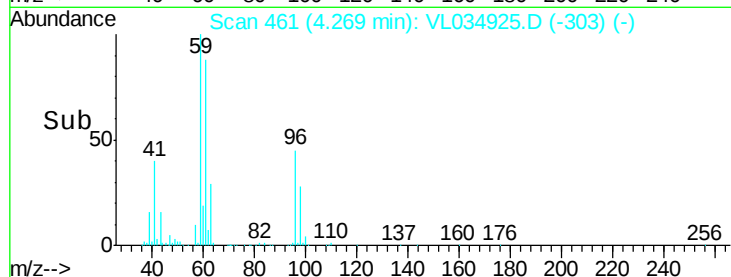
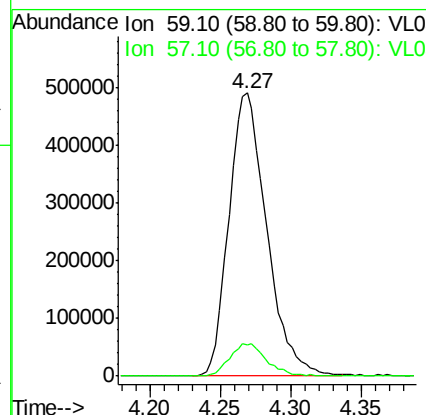
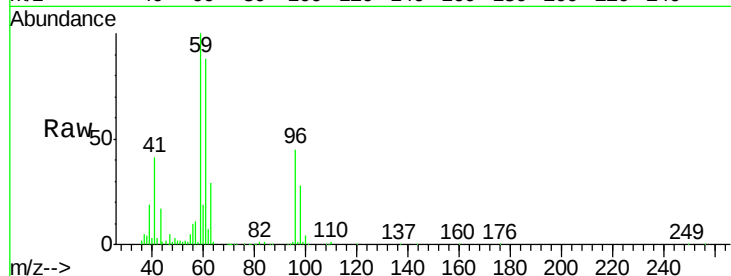
tert-Butyl alcohol
Concen: 7.056 ppbv
RT: 4.27 min Scan# 461
Delta R.T. 0.01 min
Lab File: VL034925.D
Acq: 17 Mar 2020 21:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.4	8.3	12.5

Manual Integrations
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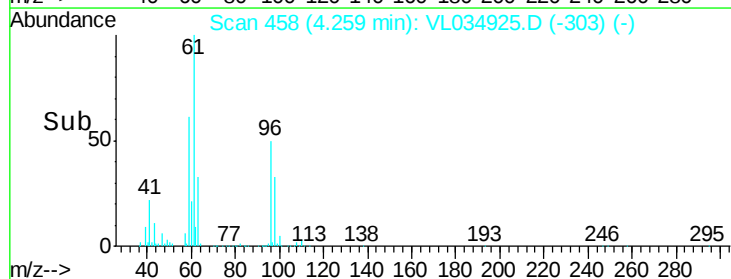
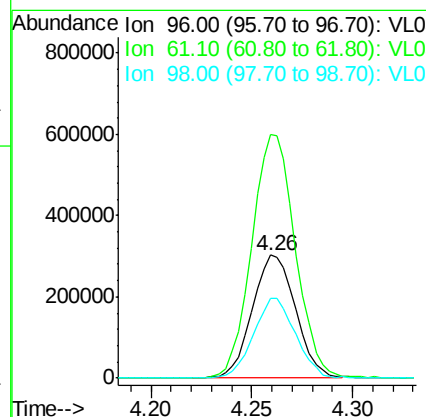
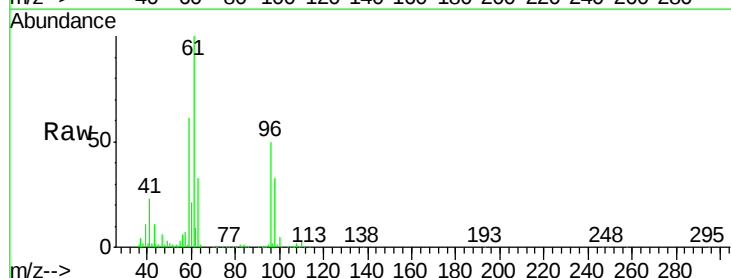
MMDadoda
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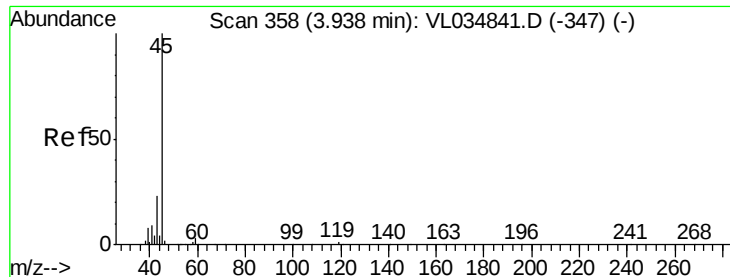


#18

1,1-Dichloroethene
Concen: 9.640 ppbv
RT: 4.26 min Scan# 458
Delta R.T. -0.00 min
Lab File: VL034925.D
Acq: 17 Mar 2020 21:22

Tgt Ion	Ratio	Lower	Upper
96	100		
61	198.4	157.3	235.9
98	65.2	50.2	75.4





#19

Isopropyl Alcohol

Concen: 7.924 ppbv

RT: 3.94 min Scan# 359

Delta R.T. 0.00 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 677611

Ion Ratio Lower Upper

45 100

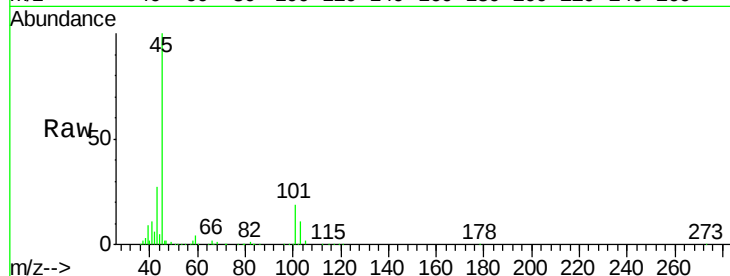
58 2.8 30.5 45.7#

Manual Integrations

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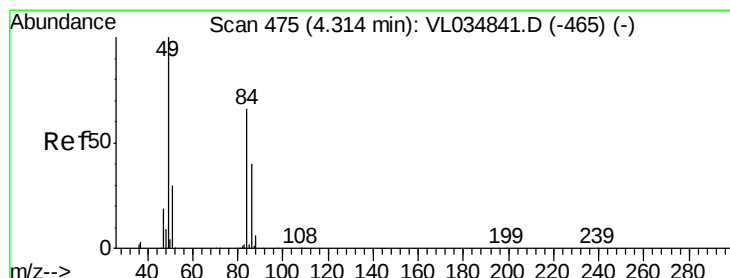
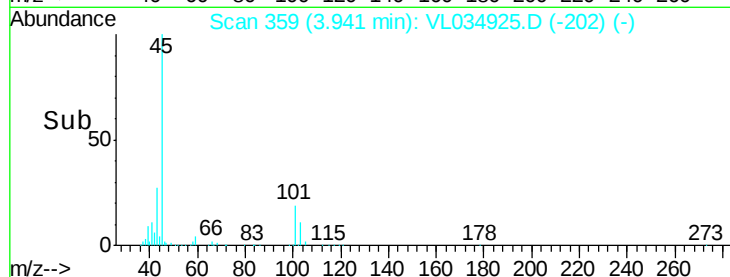
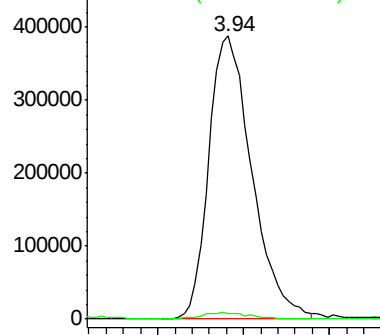
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 9.163 ppbv

RT: 4.32 min Scan# 477

Delta R.T. 0.01 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

Tgt Ion: 84 Resp: 392305

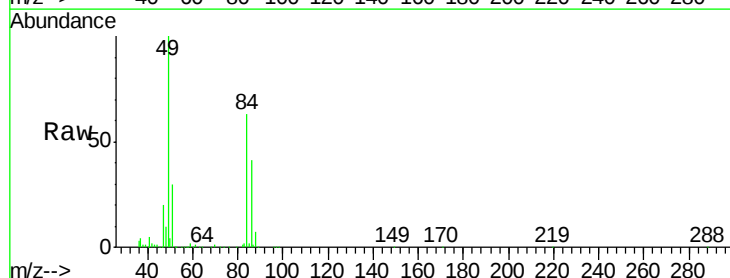
Ion Ratio Lower Upper

84 100

49 158.0 121.5 182.3

51 47.5 36.6 55.0

86 64.8 48.2 72.2

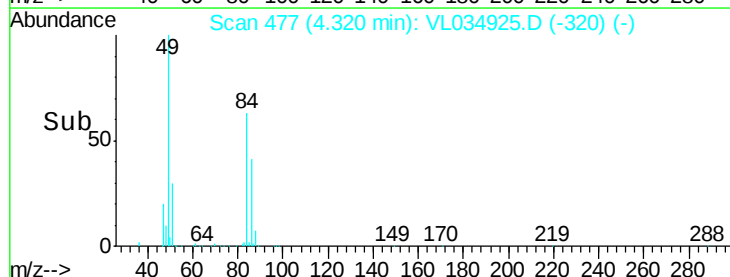
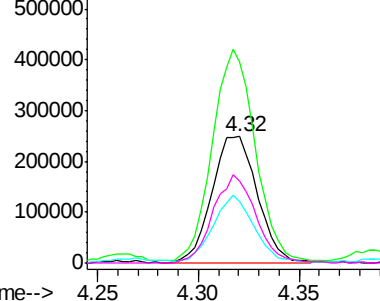


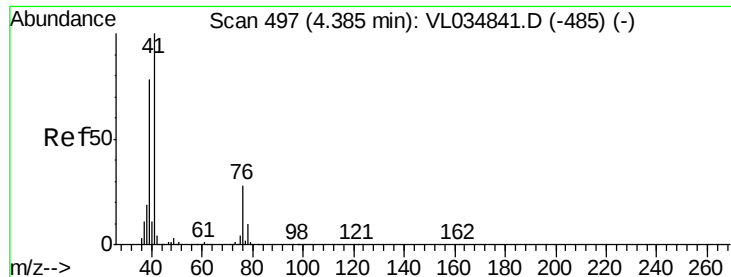
Abundance Ion 84.00 (83.70 to 84.70): VL0

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: 9.126 ppbv

RT: 4.38 min Scan# 497

Delta R.T. -0.00 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

Instrument :

MSVOA_L

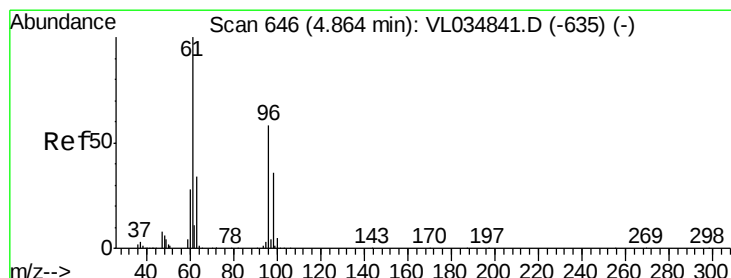
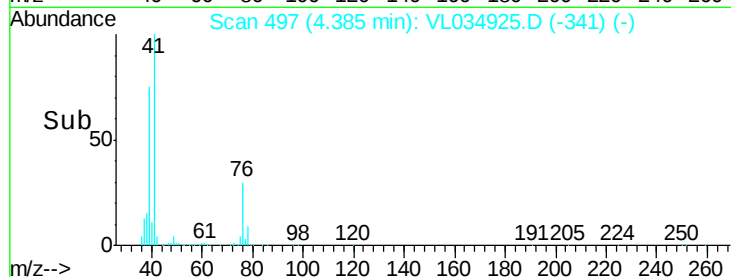
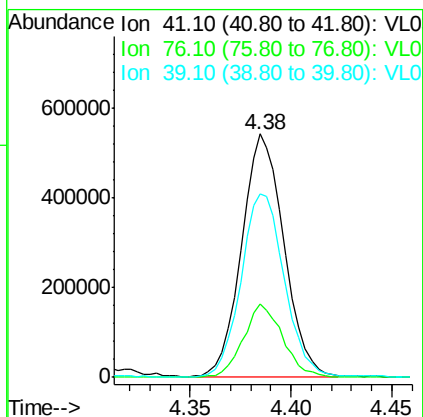
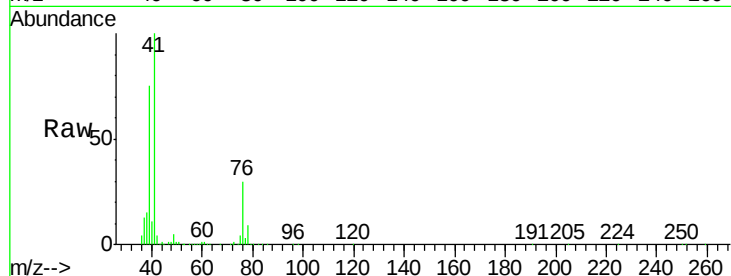
ClientSampleId :

VSTDCCC010EC

Tot Ion:	41	Resp:	793618
Ion Ratio	Lower	Upper	
41	100		
76	28.4	22.2	33.2
39	77.9	62.6	93.8

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 9.419 ppbv

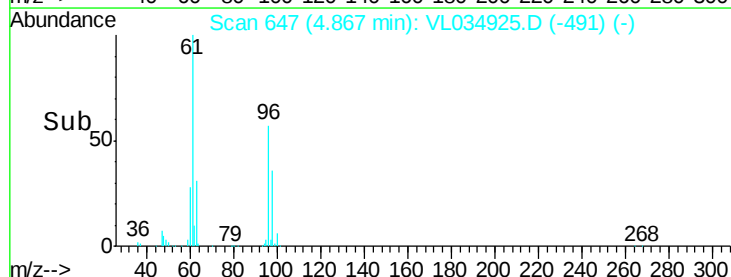
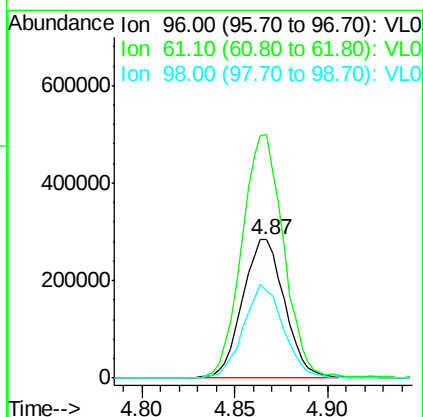
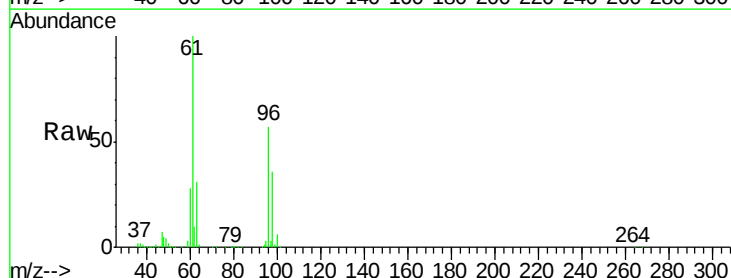
RT: 4.87 min Scan# 647

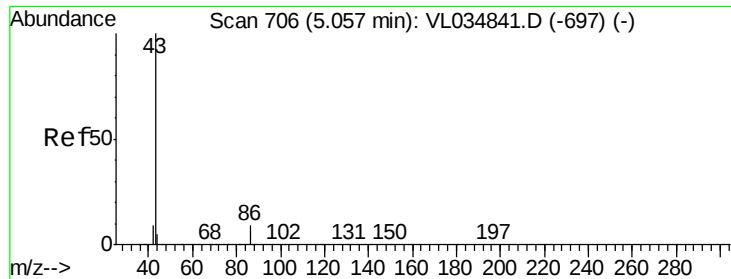
Delta R.T. 0.00 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

Tgt Ion:	96	Resp:	450802
Ion Ratio	Lower	Upper	
96	100		
61	175.7	139.0	208.6
98	63.1	50.3	75.5





#23

Vinyl Acetate

Concen: 9.151 ppbv

RT: 5.06 min Scan# 706

Delta R.T. -0.00 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1830365

Ion Ratio Lower Upper

43 100

86 7.1 6.3 9.5

42 9.0 7.8 11.8

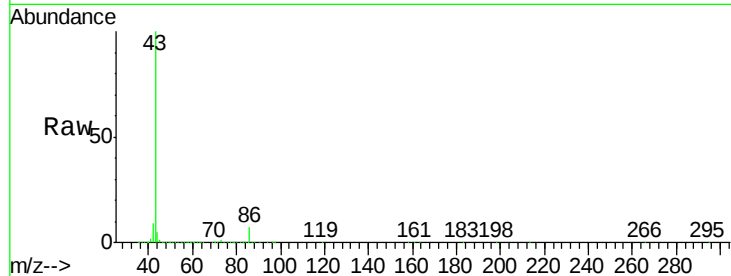
44 5.3 4.0 6.0

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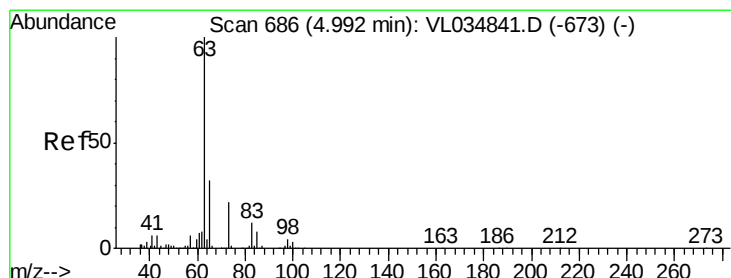
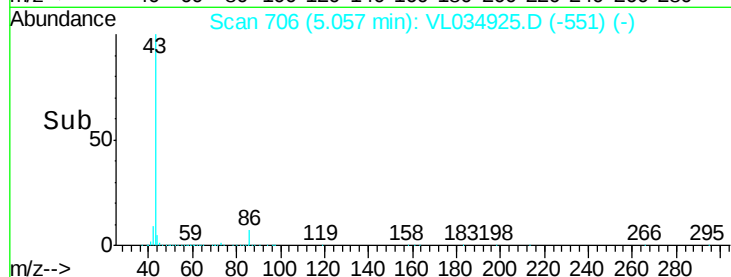
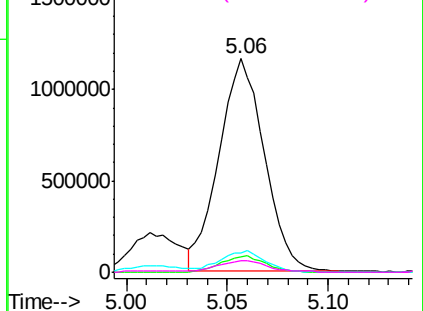


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.075 ppbv

RT: 4.99 min Scan# 686

Delta R.T. -0.00 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

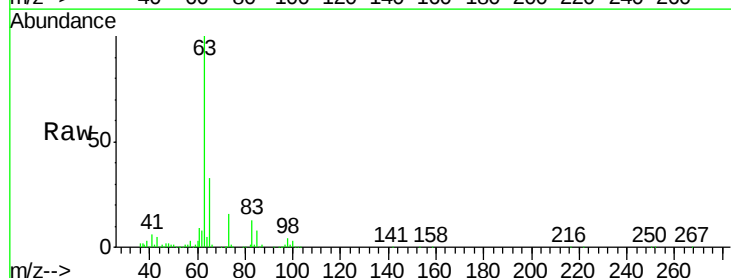
Tgt Ion: 63 Resp: 1216921

Ion Ratio Lower Upper

63 100

98 3.8 2.0 5.8

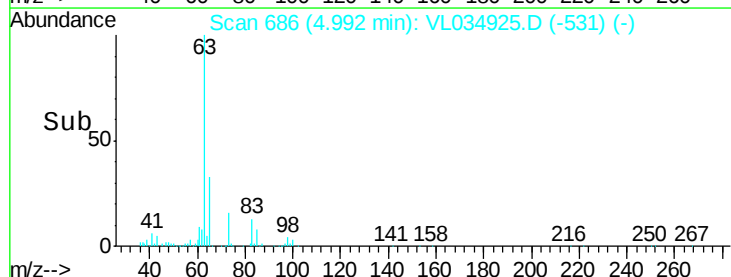
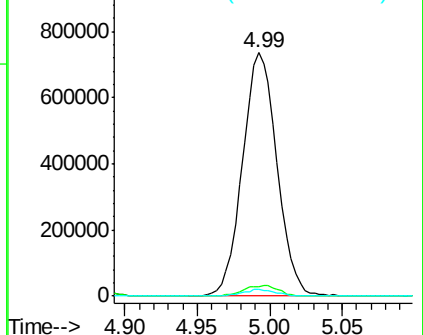
100 2.7 1.4 4.0

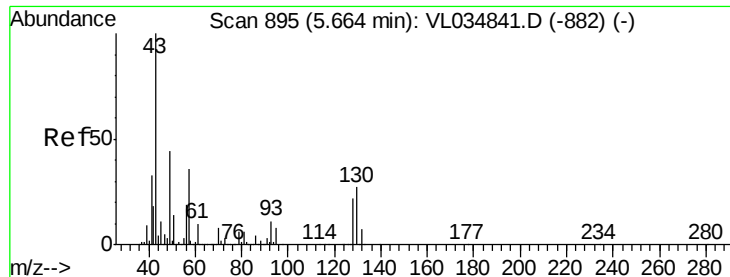


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





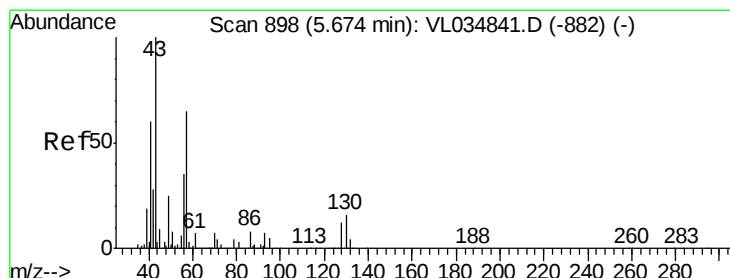
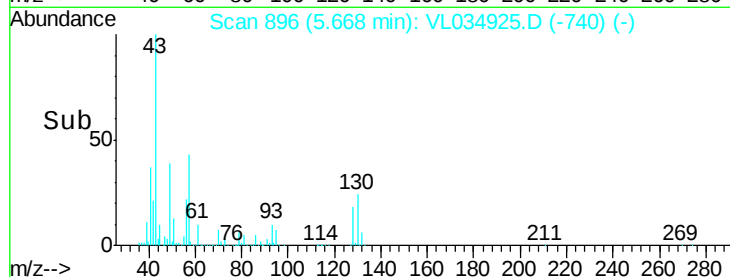
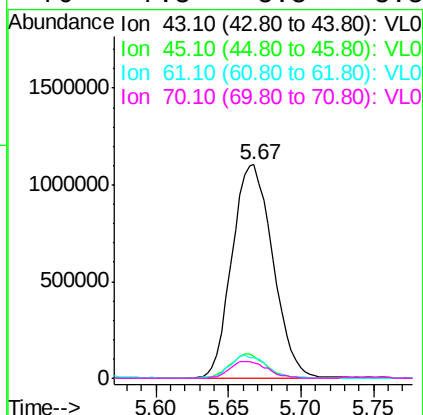
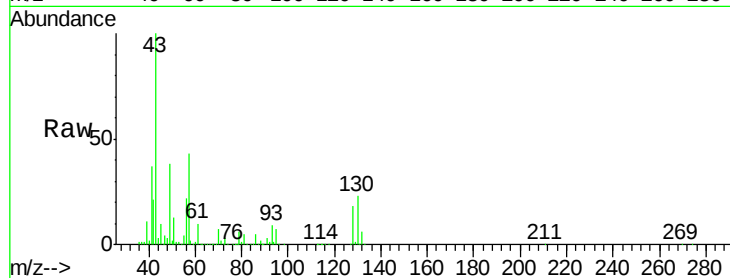
#25
Ethyl Acetate
Concen: 8.952 ppbv
RT: 5.67 min Scan# 896
Delta R.T. 0.00 min
Lab File: VL034925.D
Acq: 17 Mar 2020 21:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.1	8.2	12.2	
61	9.4	7.8	11.6	
70	7.3	5.8	8.8	

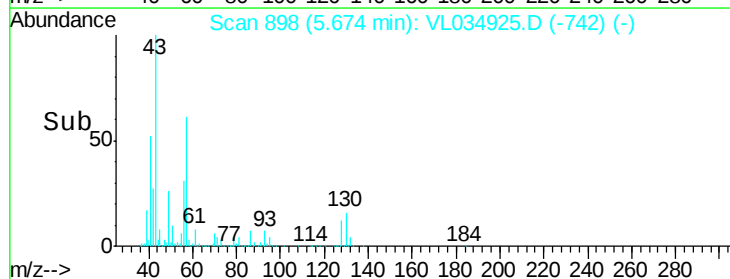
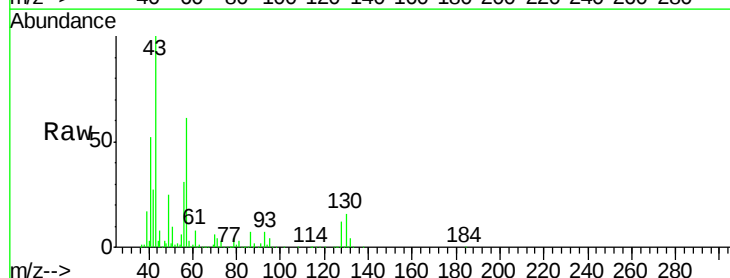
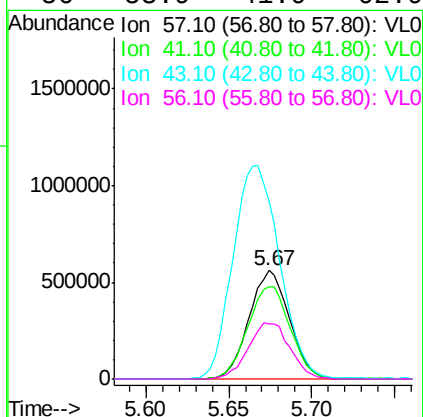
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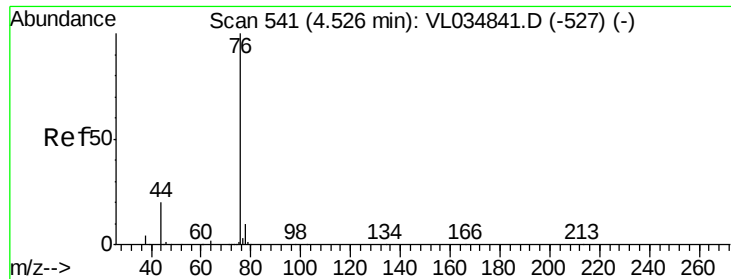
MMDadoda
3/18/2020 5:35:56 PM



#26
Hexane
Concen: 9.123 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.00 min
Lab File: VL034925.D
Acq: 17 Mar 2020 21:22

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	90.5	72.6	109.0	
43	229.6	183.8	275.6	
56	53.9	41.9	62.9	





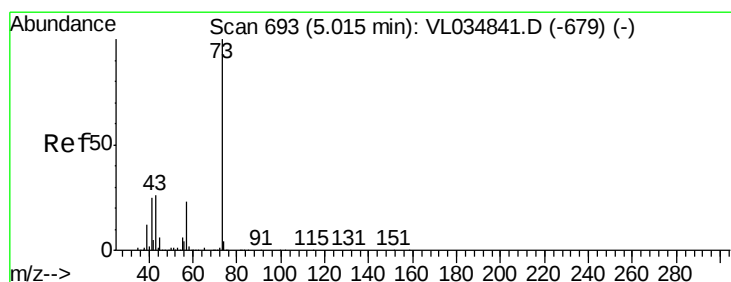
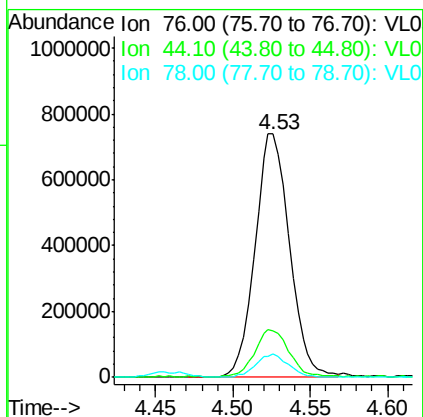
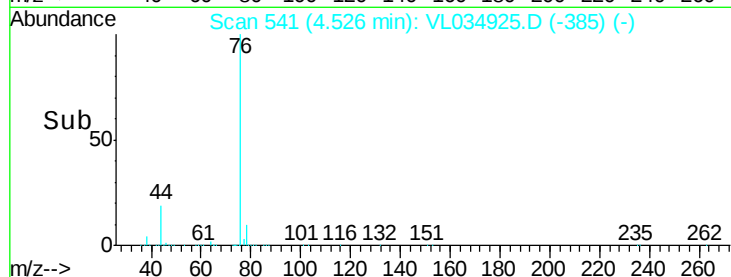
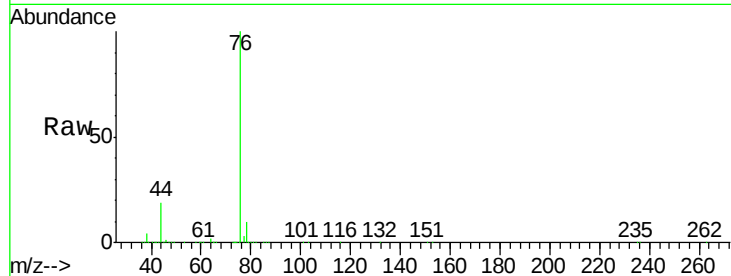
#27
Carbon Disulfide
Concen: 9.755 ppbv
RT: 4.53 min Scan# 541
Delta R.T. -0.00 min
Lab File: VL034925.D
Acq: 17 Mar 2020 21:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
76	100		
44	20.8	16.2	24.2
78	8.9	7.8	11.6

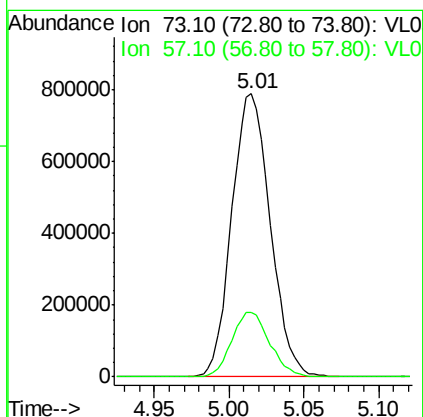
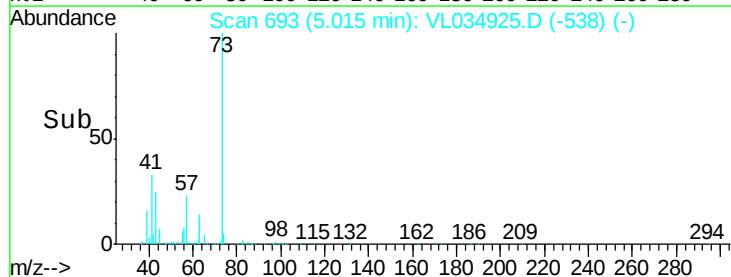
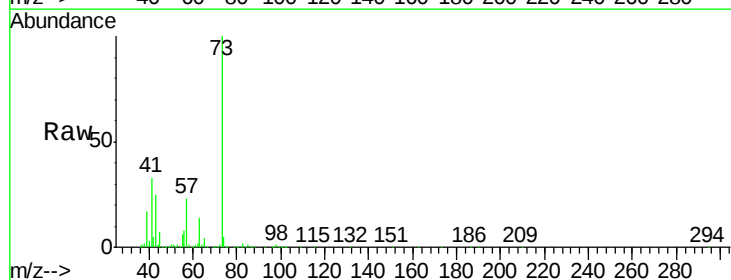
Manual Integrations
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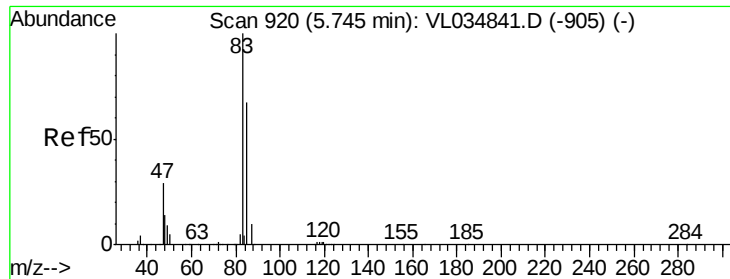
MMDadoda
3/18/2020 5:35:56 PM



#28
Methyl tert-Butyl Ether
Concen: 8.171 ppbv
RT: 5.01 min Scan# 693
Delta R.T. -0.00 min
Lab File: VL034925.D
Acq: 17 Mar 2020 21:22

Tgt Ion	Ratio	Lower	Upper
73	100		
57	22.9	18.3	27.5





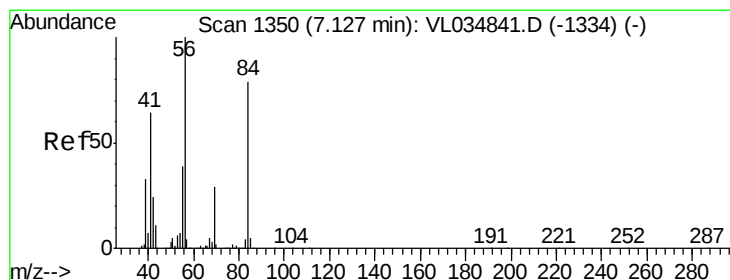
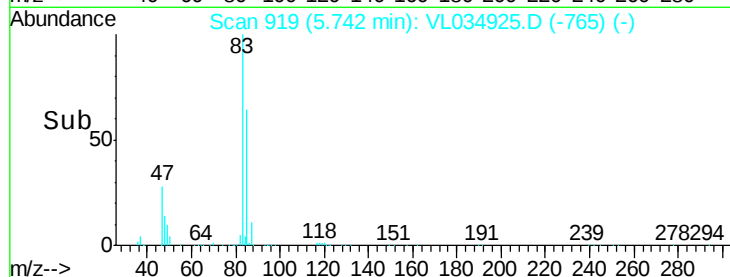
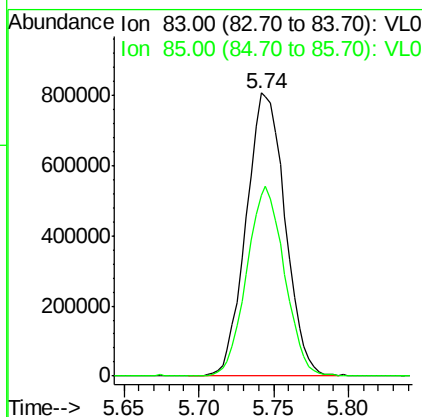
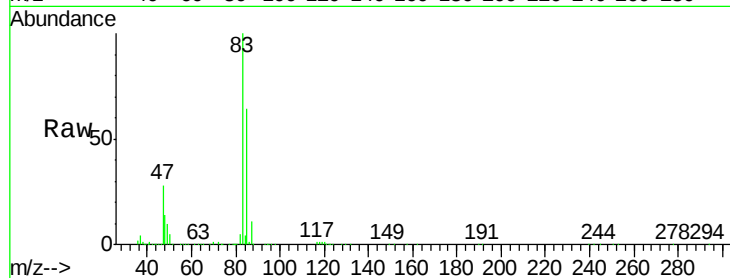
#29
Chloroform
Concen: 9.237 ppbv
RT: 5.74 min Scan# 919
Delta R.T. -0.00 min
Lab File: VL034925.D
Acq: 17 Mar 2020 21:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1464074
Ion Ratio Lower Upper
83 100
85 63.8 53.8 80.6

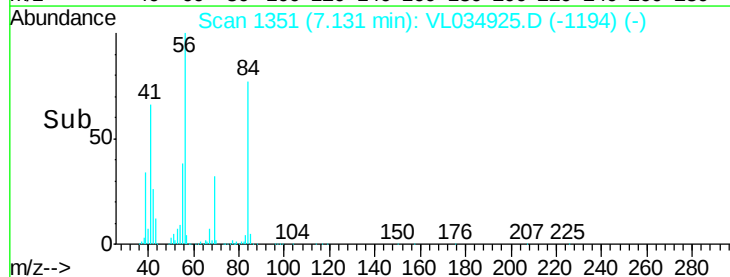
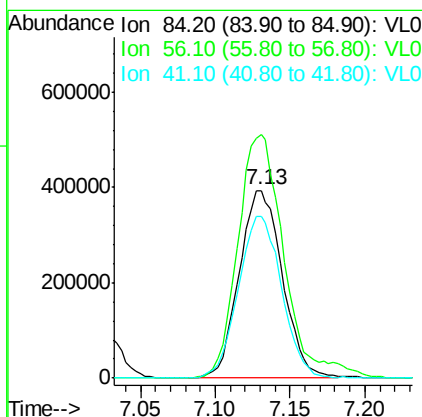
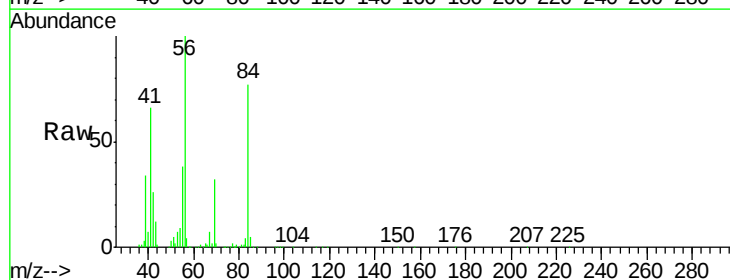
Manual Integrations
APPROVED

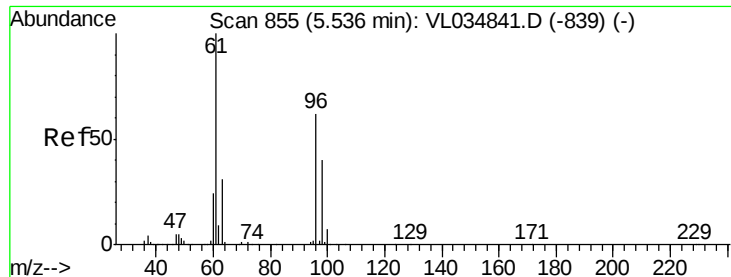
MMDadoda
3/18/2020 5:35:56 PM



#30
Cyclohexane
Concen: 9.114 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. 0.00 min
Lab File: VL034925.D
Acq: 17 Mar 2020 21:22

Tgt Ion: 84 Resp: 789985
Ion Ratio Lower Upper
84 100
56 139.5 110.5 165.7
41 87.0 68.2 102.4





#31

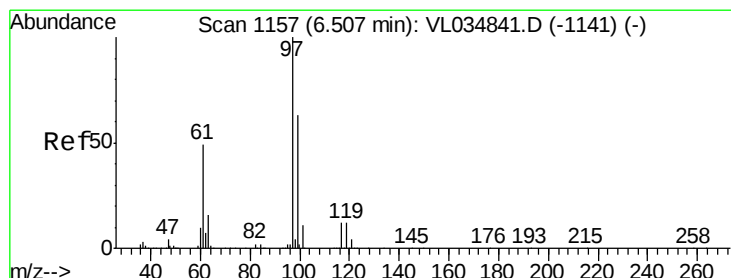
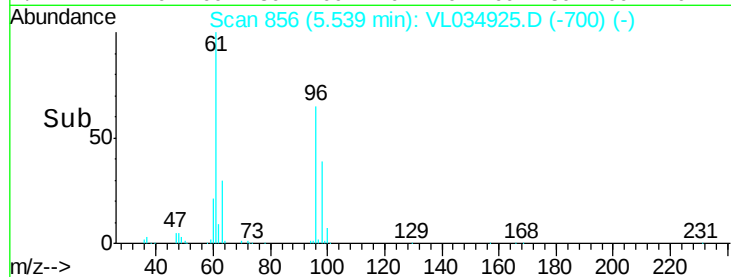
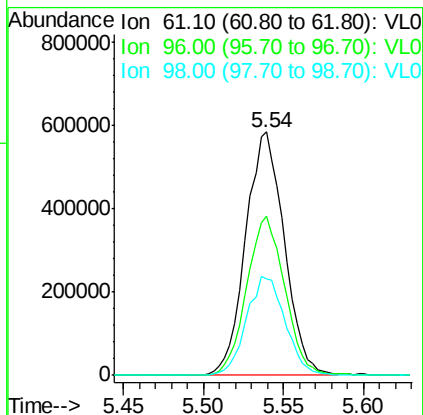
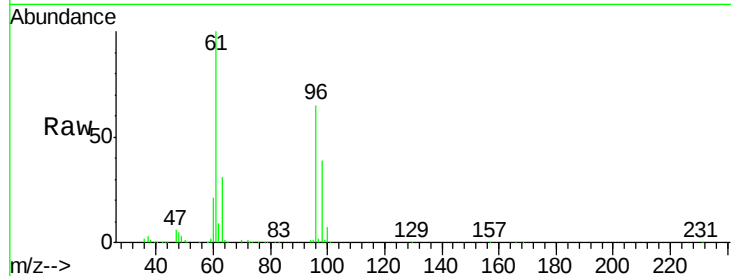
cis-1,2-Dichloroethene
Concen: 9.041 ppbv
RT: 5.54 min Scan# 856
Delta R.T. 0.00 min
Lab File: VL034925.D
Acq: 17 Mar 2020 21:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	65.3	49.8	74.8
98	39.4	32.2	48.4

Manual Integrations
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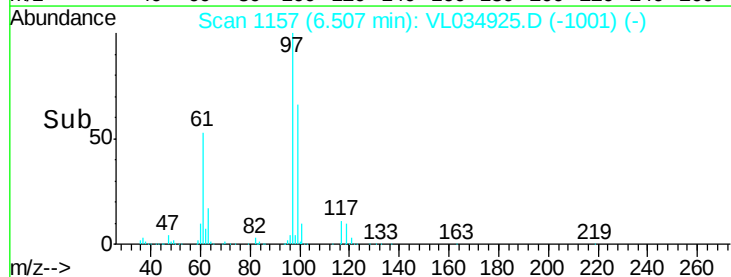
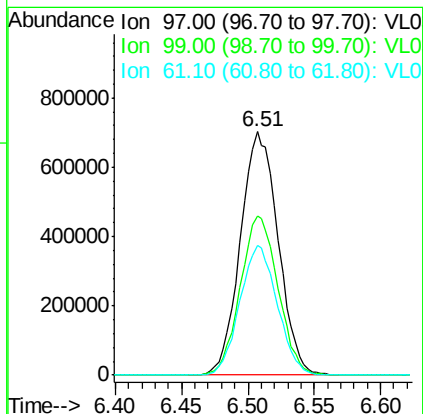
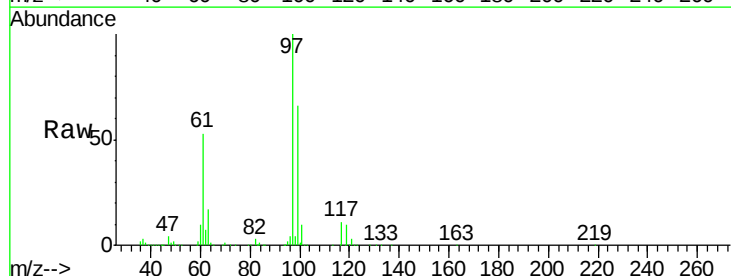
MMDadoda
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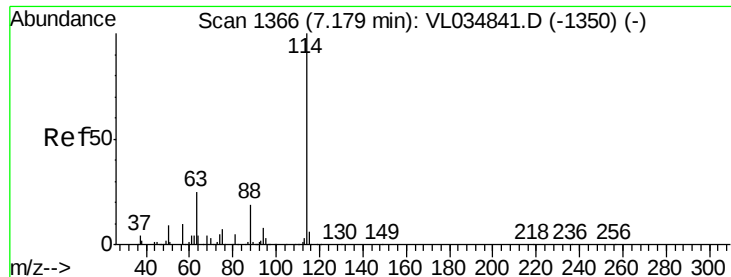


#32

1,1,1-Trichloroethane
Concen: 8.995 ppbv
RT: 6.51 min Scan# 1157
Delta R.T. -0.00 min
Lab File: VL034925.D
Acq: 17 Mar 2020 21:22

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.1	76.7
61	52.7	39.7	59.5





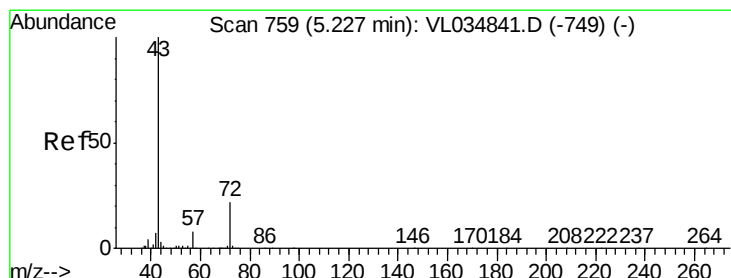
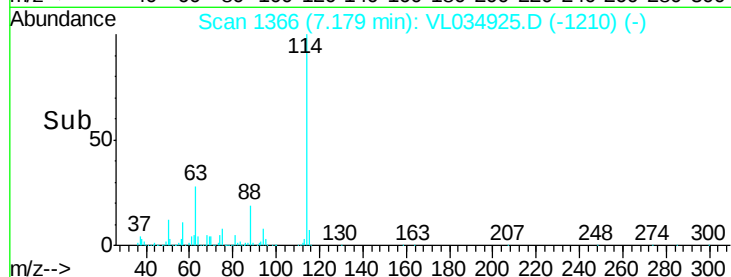
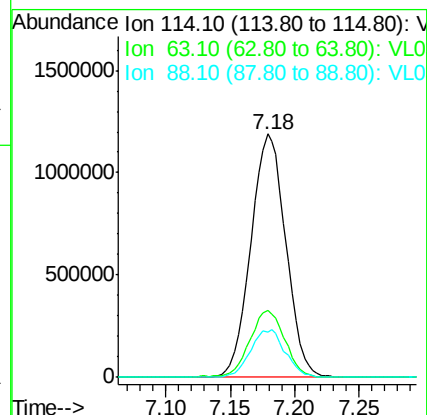
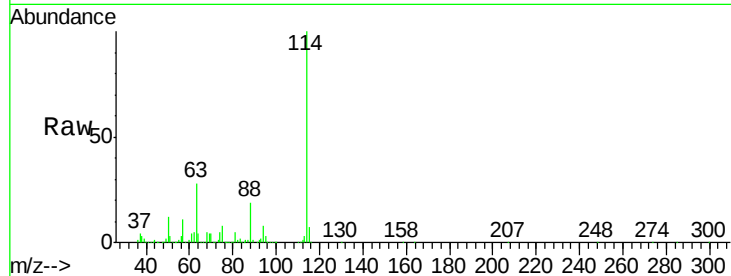
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. -0.00 min
 Lab File: VL034925.D
 Acq: 17 Mar 2020 21:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.1	20.6	31.0
88	19.6	15.0	22.6

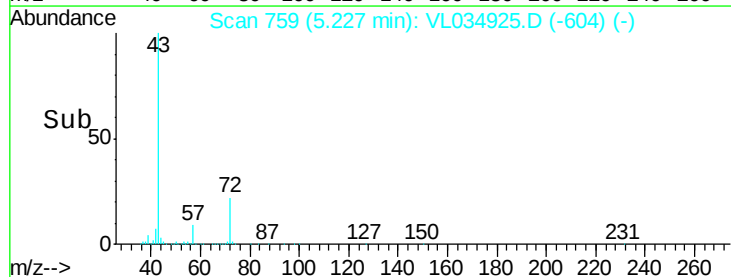
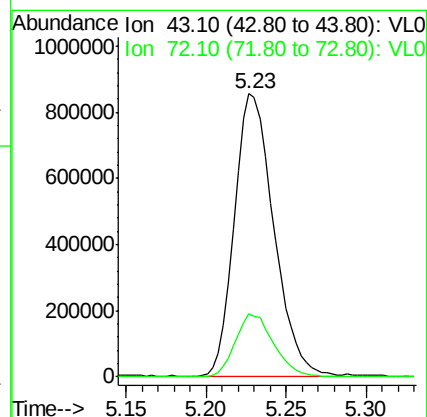
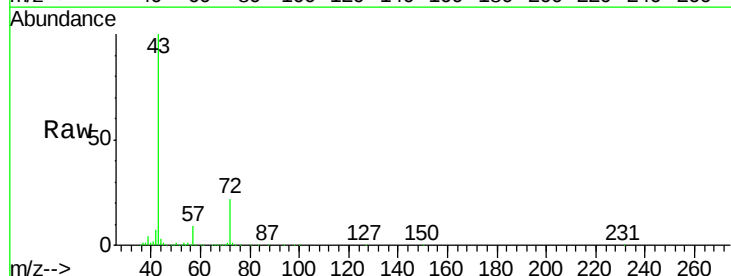
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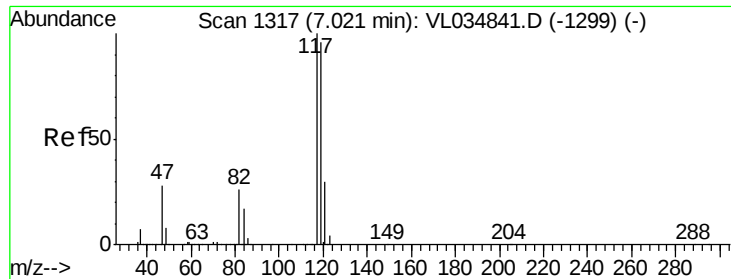
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#34
 2-Butanone
 Concen: 9.638 ppbv
 RT: 5.23 min Scan# 759
 Delta R.T. -0.00 min
 Lab File: VL034925.D
 Acq: 17 Mar 2020 21:22

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.8	17.6	26.4





#35

Carbon Tetrachloride

Concen: 10.295 ppbv

RT: 7.02 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 1436868

Ion Ratio Lower Upper

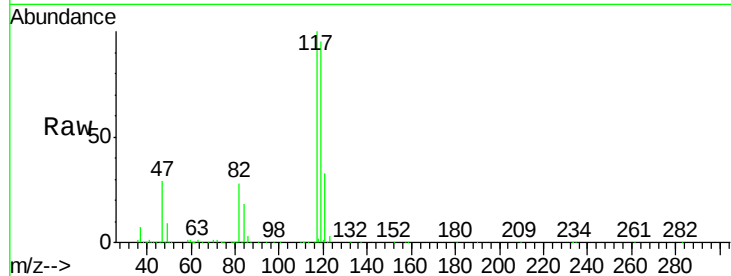
117 100

119 94.8 77.0 115.4

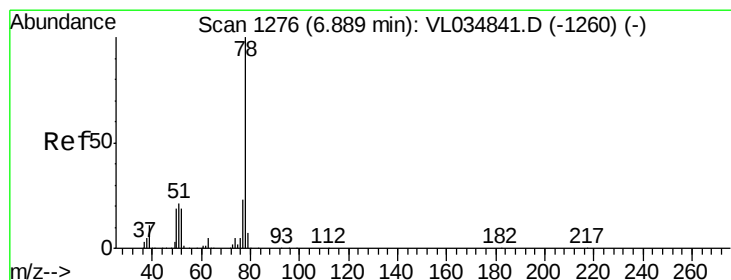
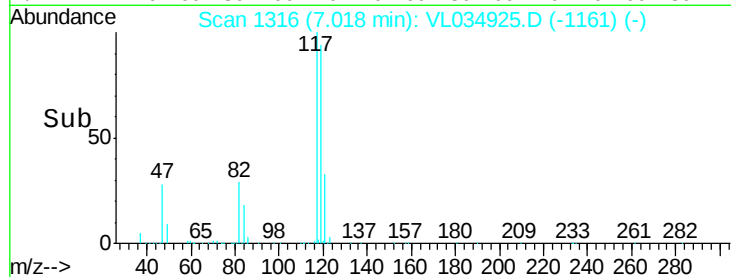
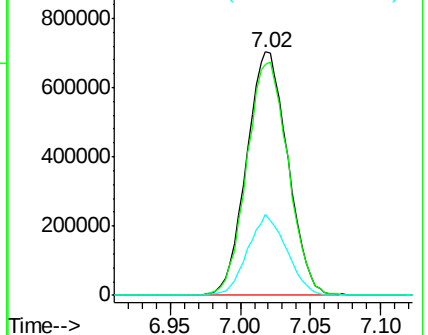
121 33.2 24.0 36.0

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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.600 ppbv

RT: 6.89 min Scan# 1277

Delta R.T. 0.00 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

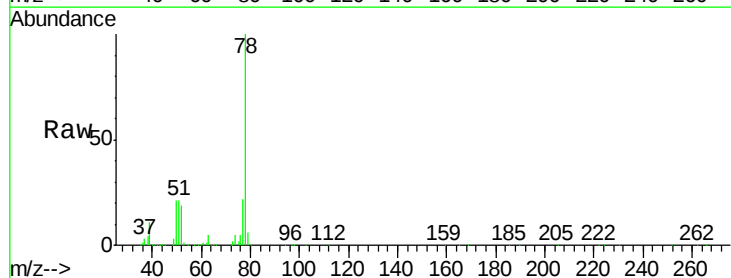
Tgt Ion: 78 Resp: 1920295

Ion Ratio Lower Upper

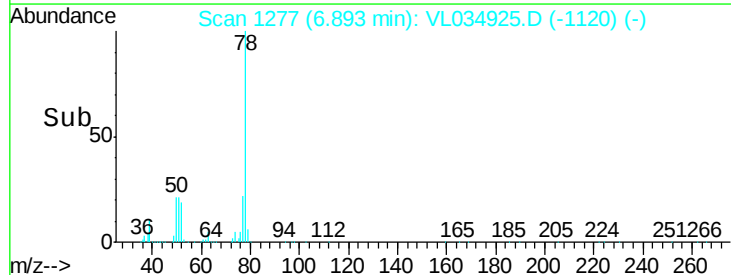
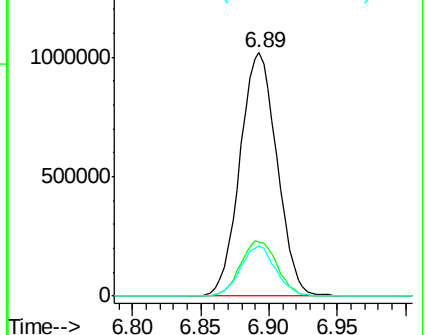
78 100

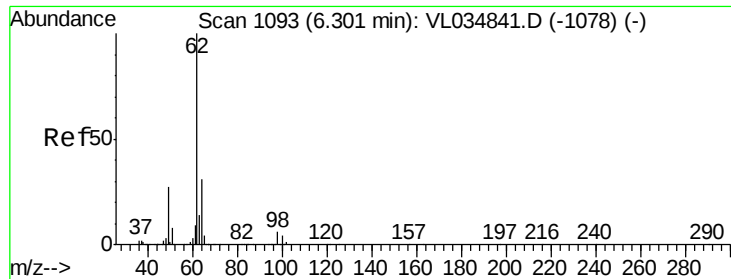
77 22.2 18.2 27.2

50 20.8 15.2 22.8



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 10.203 ppbv

RT: 6.30 min Scan# 1094

Delta R.T. 0.00 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 1150672

Ion Ratio Lower Upper

62 100

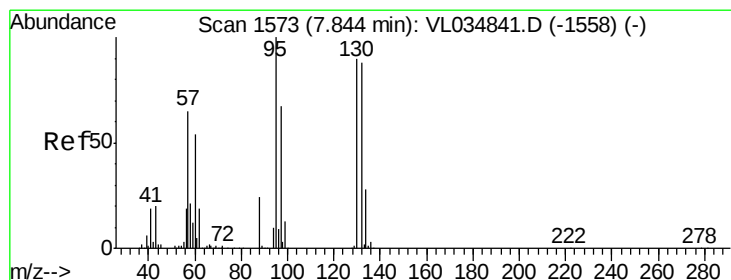
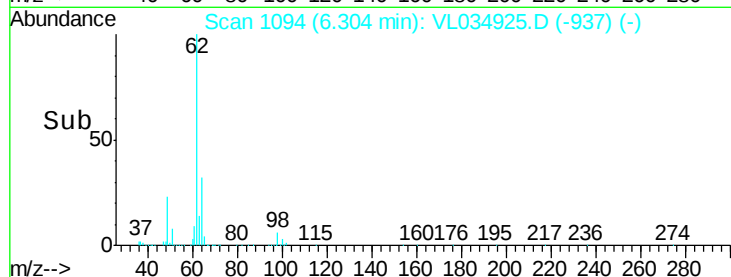
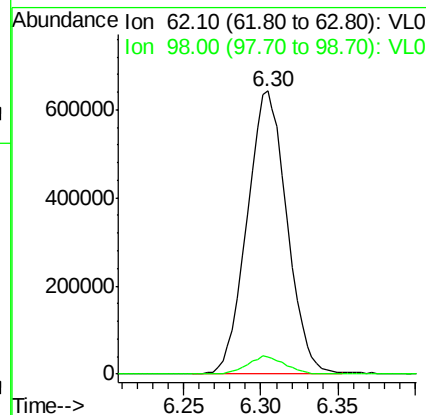
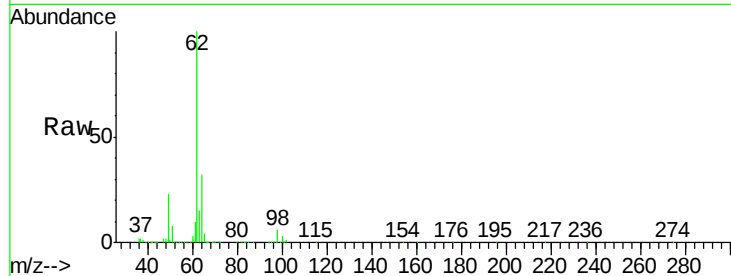
98 6.0 5.2 7.8

Manual Integrations

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#38

Trichloroethene

Concen: 9.312 ppbv

RT: 7.84 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

Tgt Ion: 130 Resp: 707418

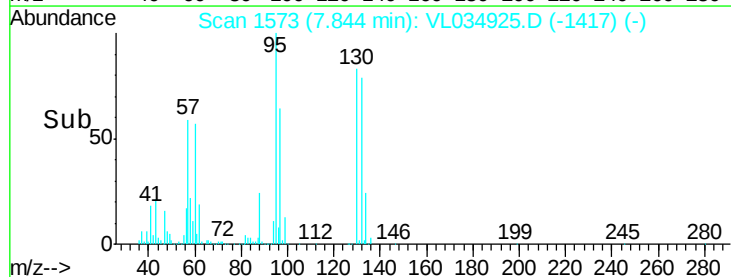
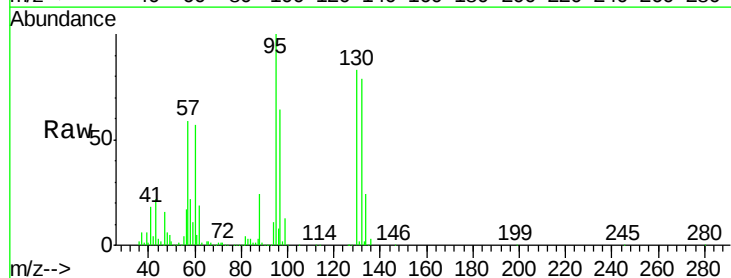
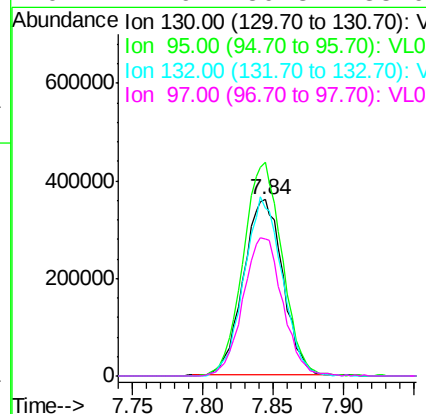
Ion Ratio Lower Upper

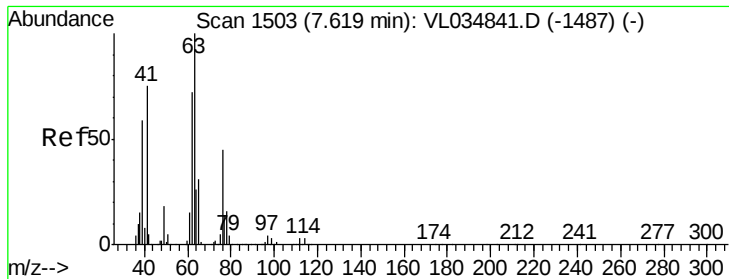
130 100

95 121.5 88.5 132.7

132 95.7 78.0 117.0

97 77.9 59.3 88.9





#39

1,2-Dichloropropane

Concen: 9.374 ppbv

RT: 7.62 min Scan# 1503

Delta R.T. -0.00 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

Instrument :

MSVOA_L

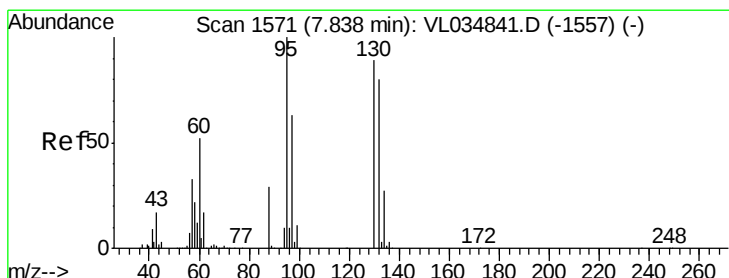
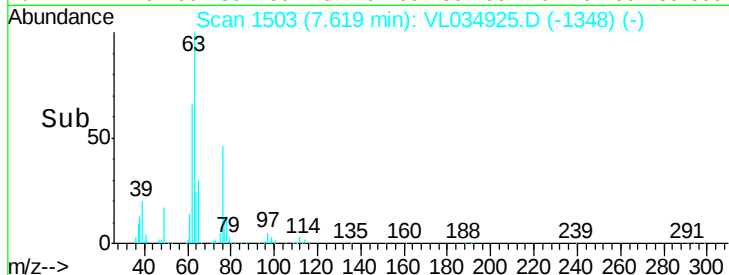
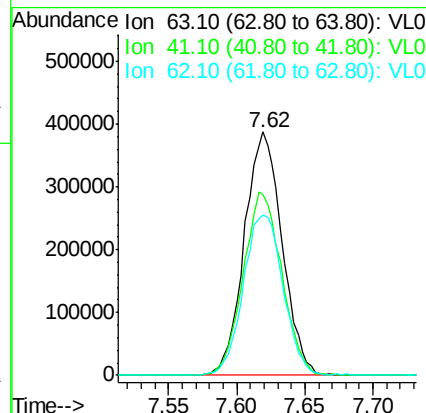
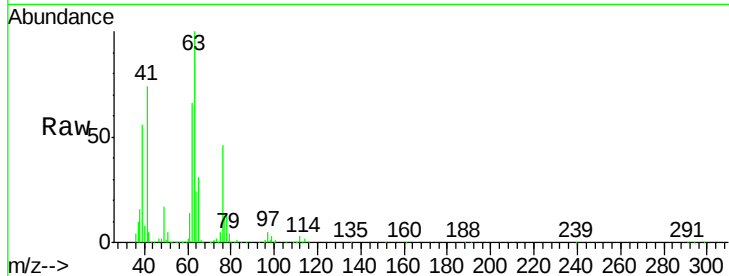
ClientSampleId :

VSTDCCC010EC

Tot Ion:	63	Resp:	742883
Ion	Ratio	Lower	Upper
63	100		
41	74.1	59.8	89.8
62	65.8	57.6	86.4

Manual Integrations
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#40

1,4-Dioxane

Concen: 8.869 ppbv

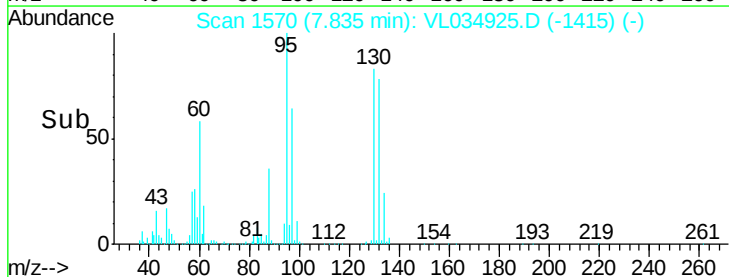
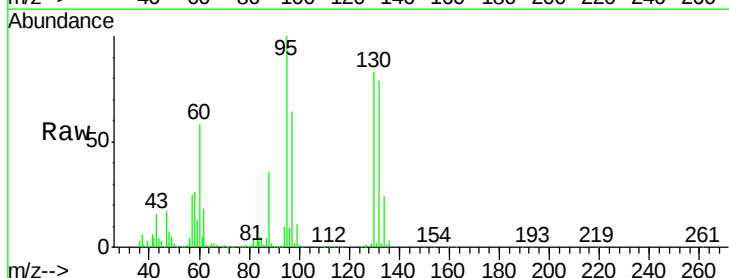
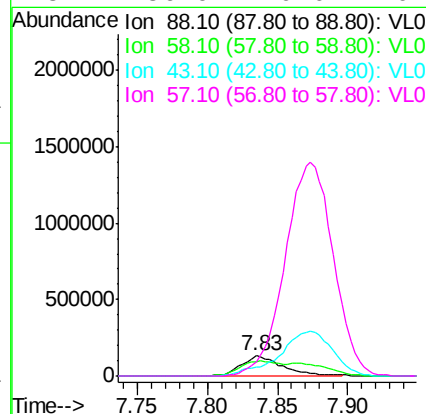
RT: 7.83 min Scan# 1570

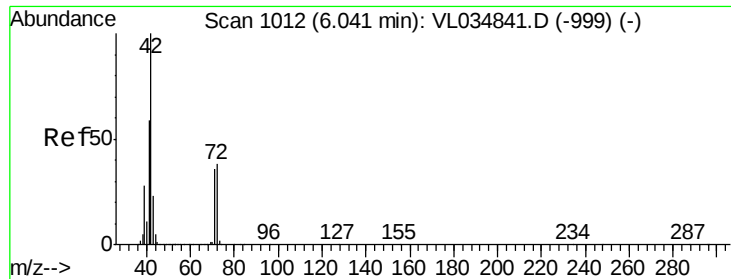
Delta R.T. -0.00 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

Tgt Ion:	88	Resp:	265446
Ion	Ratio	Lower	Upper
88	100		
58	138.4	103.9	155.9
43	290.0	0.0	0.0#
57	1256.9	0.0	0.0#





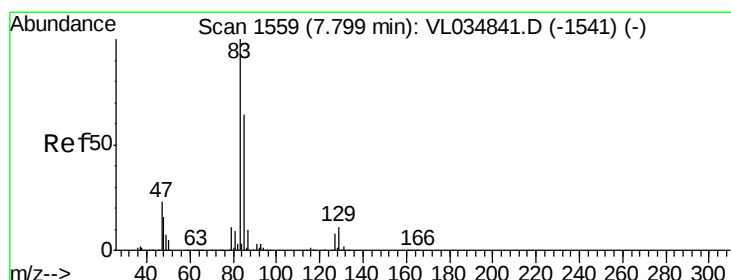
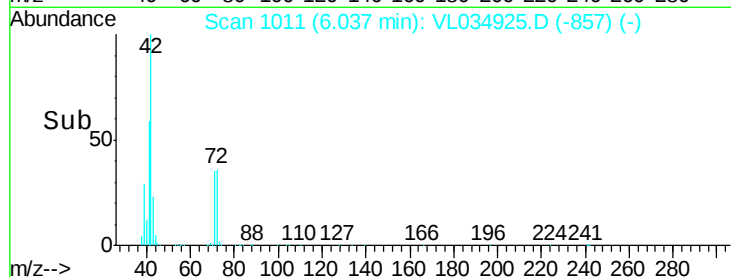
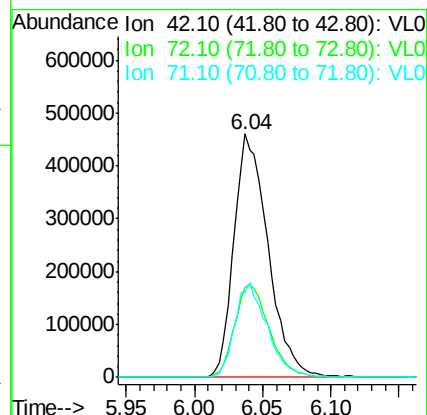
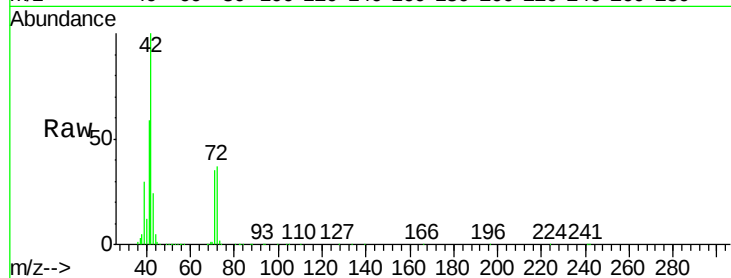
#41
Tetrahydrofuran
Concen: 9.921 ppbv
RT: 6.04 min Scan# 1011
Delta R.T. -0.00 min
Lab File: VL034925.D
Acq: 17 Mar 2020 21:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.6	30.8	46.2
71	37.2	30.1	45.1

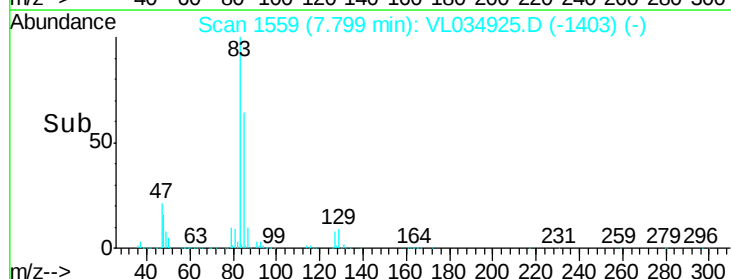
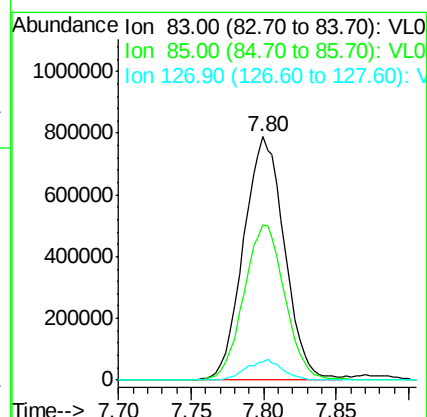
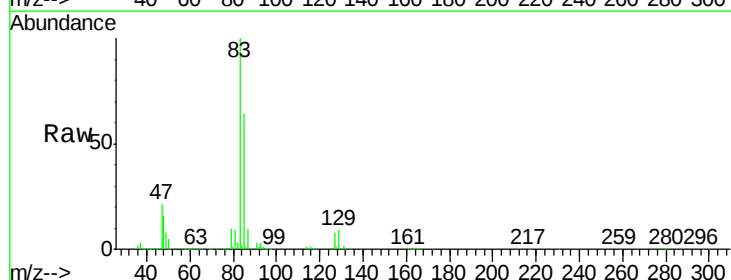
Manual Integrations
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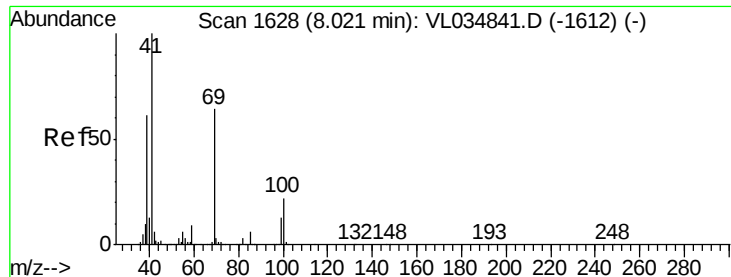
MMDadoda
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#42
Bromodichloromethane
Concen: 10.074 ppbv
RT: 7.80 min Scan# 1559
Delta R.T. -0.00 min
Lab File: VL034925.D
Acq: 17 Mar 2020 21:22

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.6	51.4	77.2
127	7.5	6.2	9.4





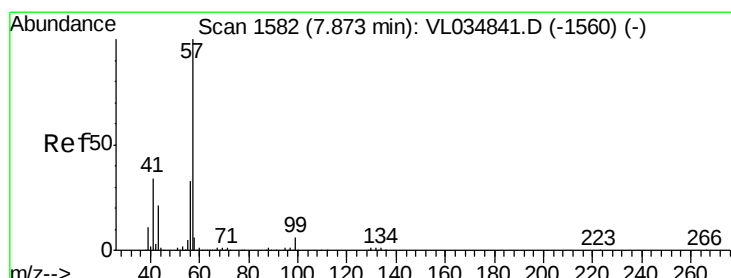
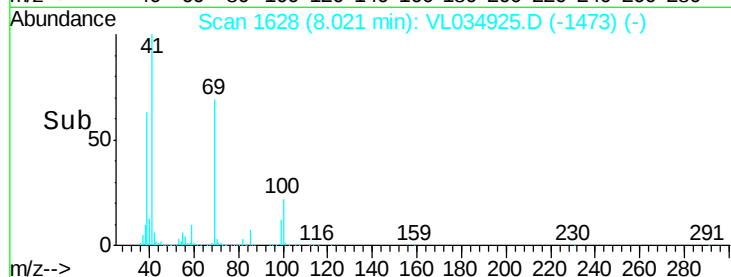
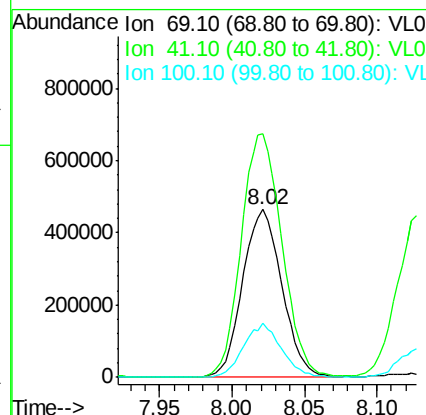
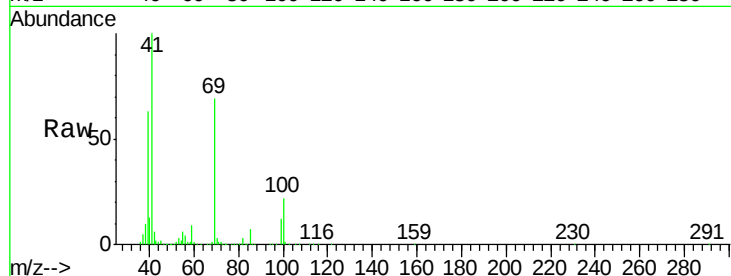
#43
Methvl Methacrylate
Concen: 10.364 ppbv
RT: 8.02 min Scan# 1628
Delta R.T. -0.00 min
Lab File: VL034925.D
Acq: 17 Mar 2020 21:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	150.6	123.2	184.8	
100	31.3	26.9	40.3	

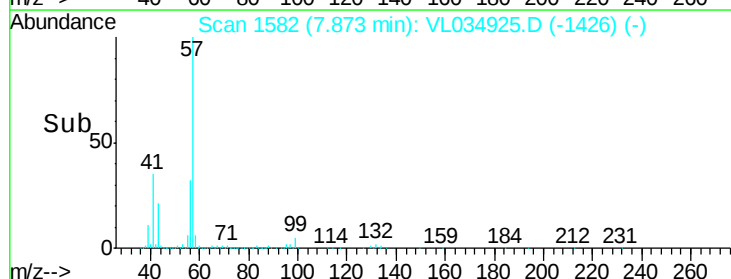
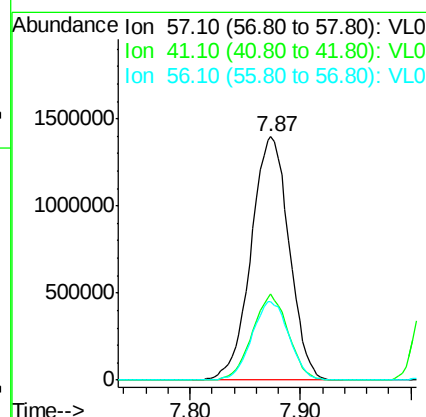
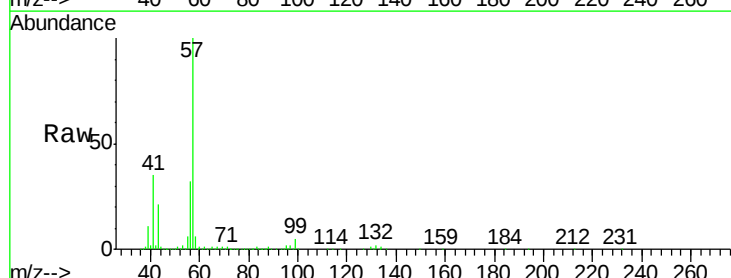
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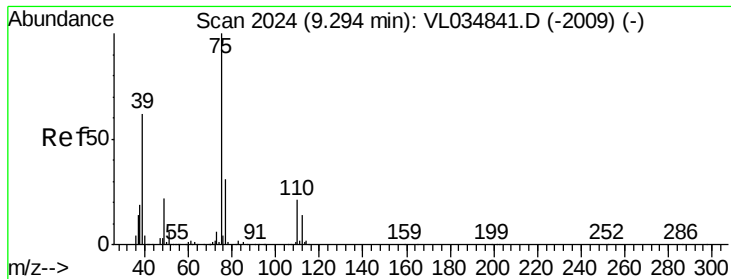
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#44
2,2,4-Trimethylpentane
Concen: 9.861 ppbv
RT: 7.87 min Scan# 1582
Delta R.T. -0.00 min
Lab File: VL034925.D
Acq: 17 Mar 2020 21:22

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	33.4	26.2	39.4	
56	31.6	25.0	37.4	





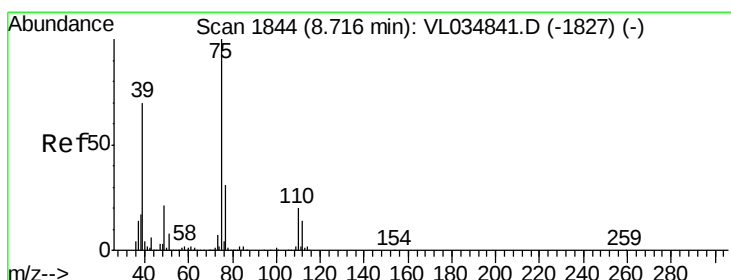
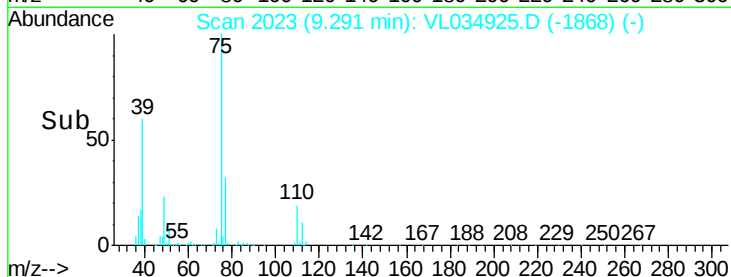
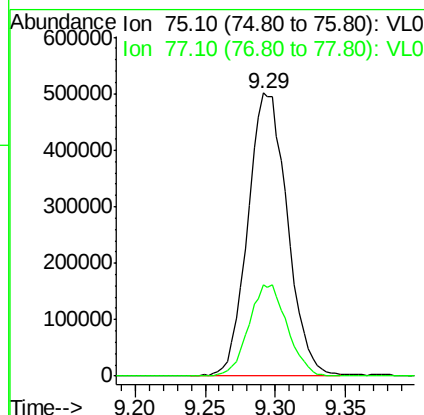
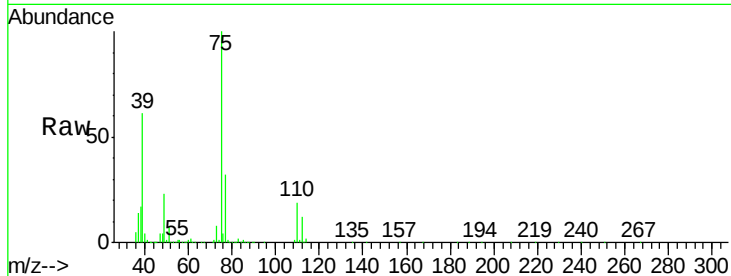
#45
t-1,3-Dichloropropene
Concen: 9.954 ppbv
RT: 9.29 min Scan# 2023
Delta R.T. -0.00 min
Lab File: VL034925.D
Acq: 17 Mar 2020 21:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 75 Resp: 985518
Ion Ratio Lower Upper
75 100
77 32.4 24.6 37.0

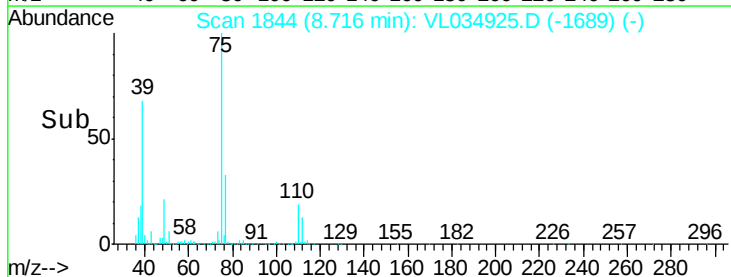
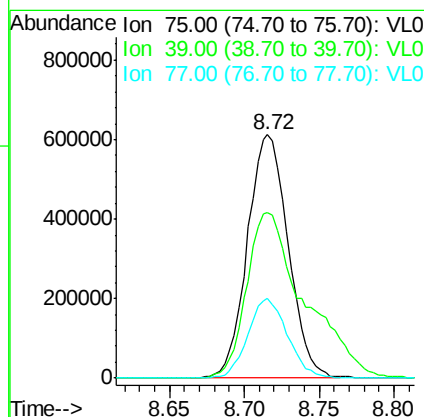
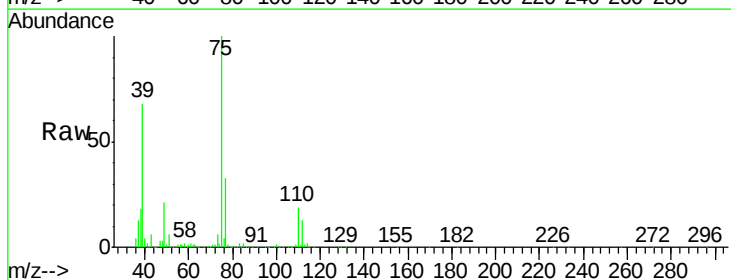
Manual Integrations
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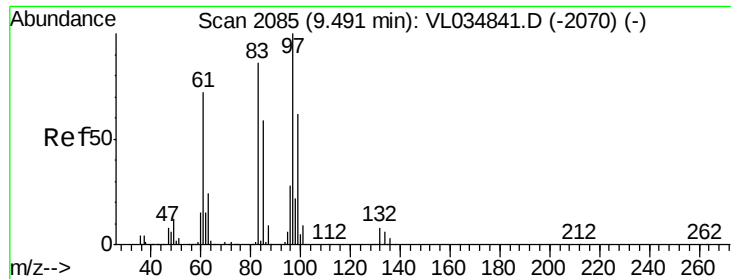
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#46
cis-1,3-Dichloropropene
Concen: 9.862 ppbv
RT: 8.72 min Scan# 1844
Delta R.T. -0.00 min
Lab File: VL034925.D
Acq: 17 Mar 2020 21:22

Tgt Ion: 75 Resp: 1160256
Ion Ratio Lower Upper
75 100
39 67.7 55.7 83.5
77 32.7 24.7 37.1





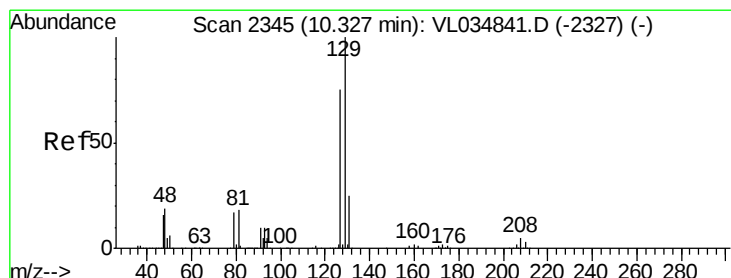
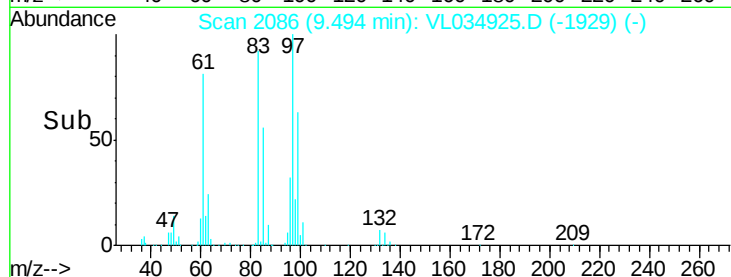
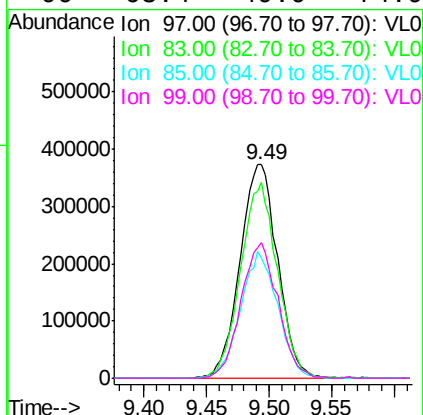
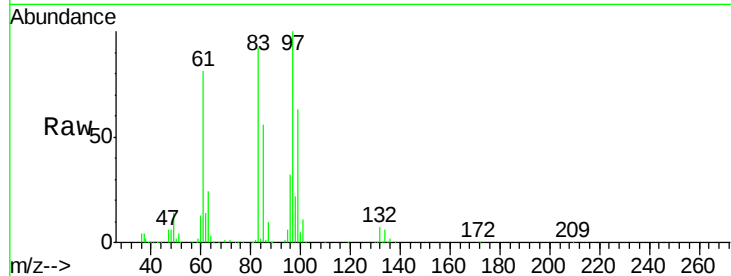
#47
 1,1,2-Trichloroethane
 Concen: 9.574 ppbv
 RT: 9.49 min Scan# 2086
 Delta R.T. 0.00 min
 Lab File: VL034925.D
 Acq: 17 Mar 2020 21:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		778681		
83	91.9	68.6	102.8		
85	56.2	46.9	70.3		
99	63.4	49.9	74.9		

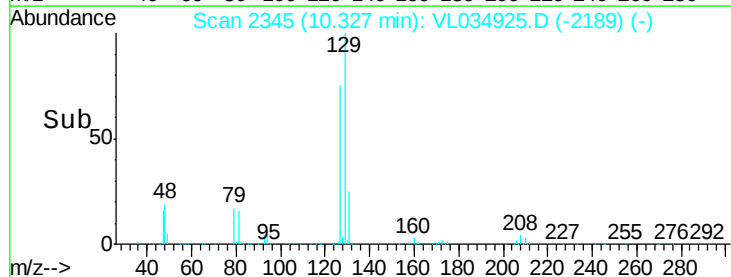
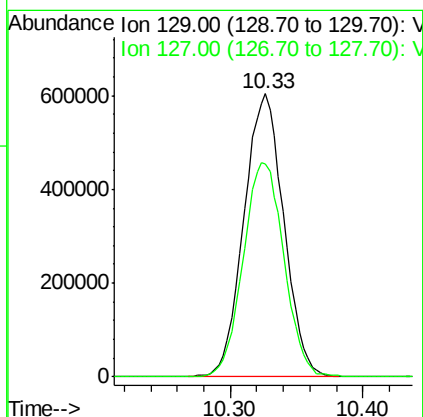
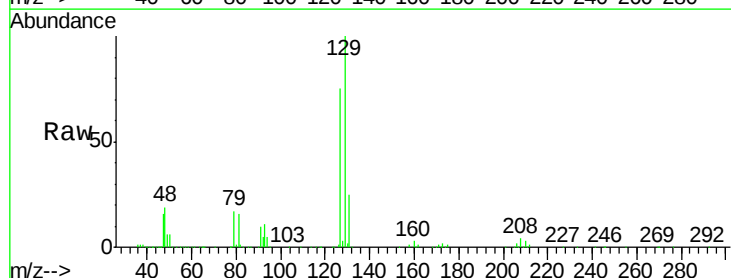
Manual Integrations
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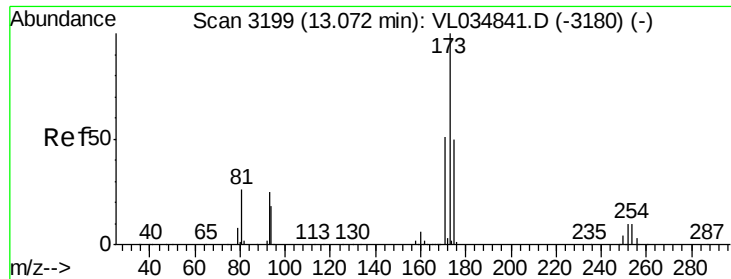
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#48
 Dibromochloromethane
 Concen: 9.574 ppbv
 RT: 10.33 min Scan# 2345
 Delta R.T. -0.00 min
 Lab File: VL034925.D
 Acq: 17 Mar 2020 21:22

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		1260995		
127	77.6	39.6	118.7		





#49

Bromoform

Concen: 9.079 ppbv

RT: 13.07 min Scan# 3198

Delta R.T. -0.00 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:173 Resp: 1066219

Ion Ratio Lower Upper

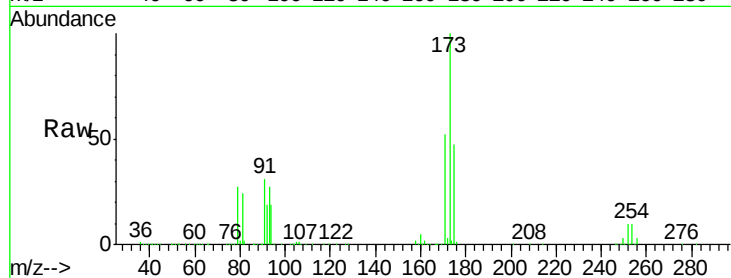
173 100

175 49.4 39.6 59.4

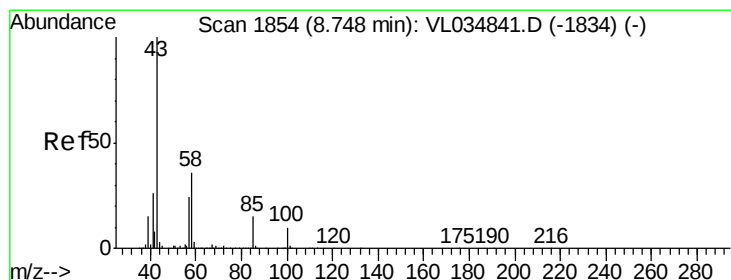
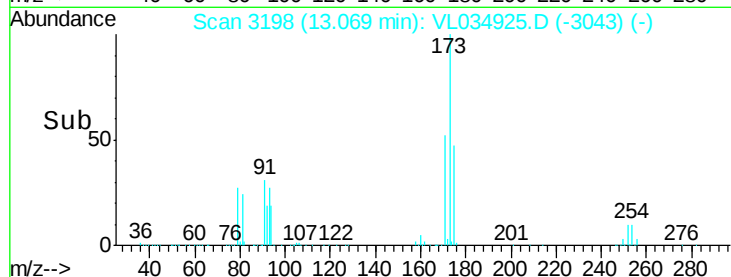
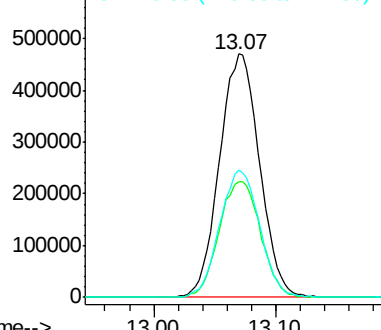
171 52.2 41.0 61.6

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Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.057 ppbv

RT: 8.75 min Scan# 1855

Delta R.T. 0.00 min

Lab File: VL034925.D

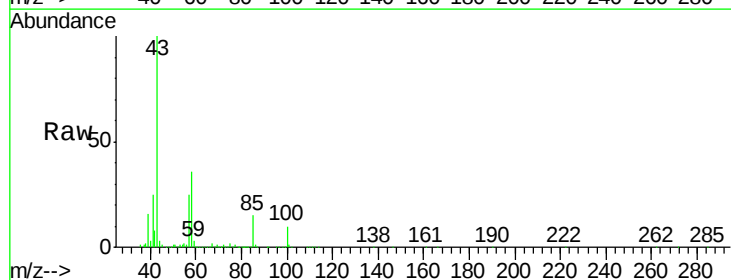
Acq: 17 Mar 2020 21:22

Tgt Ion: 43 Resp: 2158844

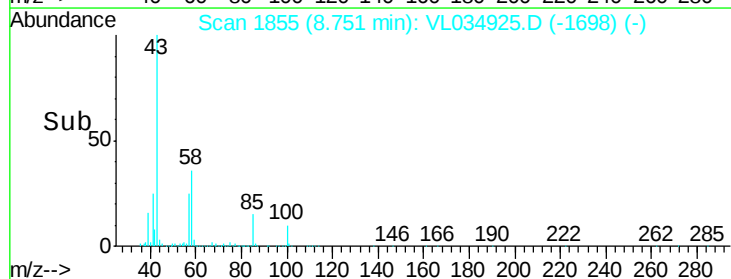
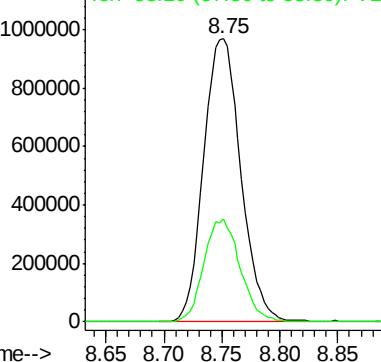
Ion Ratio Lower Upper

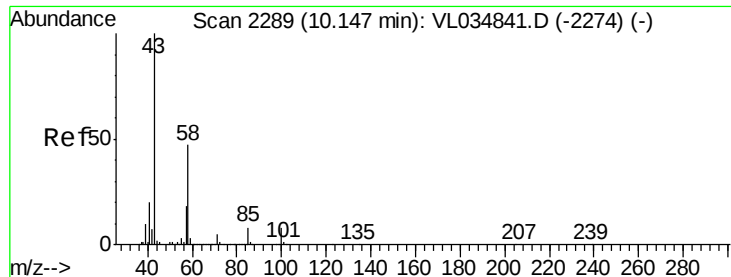
43 100

58 35.5 28.6 42.8



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





#51

2-Hexanone

Concen: 9.910 ppbv

RT: 10.15 min Scan# 2290

Delta R.T. 0.00 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

Instrument :

MSVOA_L

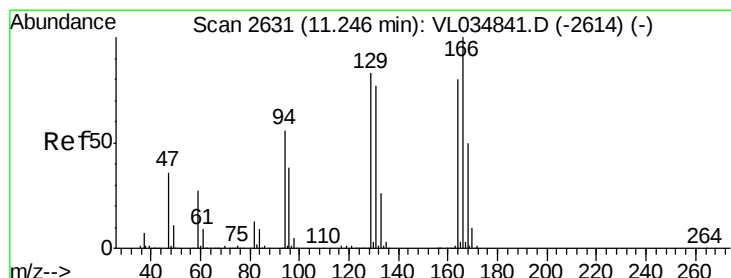
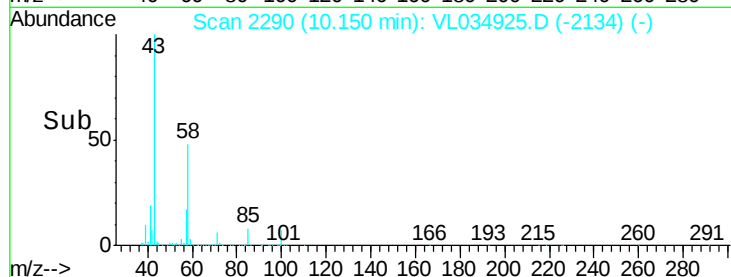
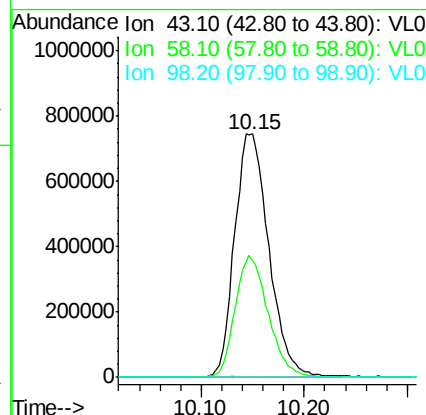
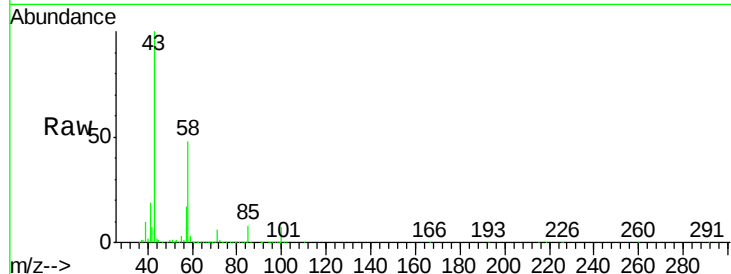
ClientSampleId :

VSTDCCC010EC

Tot Ion:	43	Resp:	1728814
Ion	Ratio	Lower	Upper
43	100		
58	48.3	38.6	58.0
98	0.4	0.1	0.1#

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#52

Tetrachloroethene

Concen: 8.312 ppbv

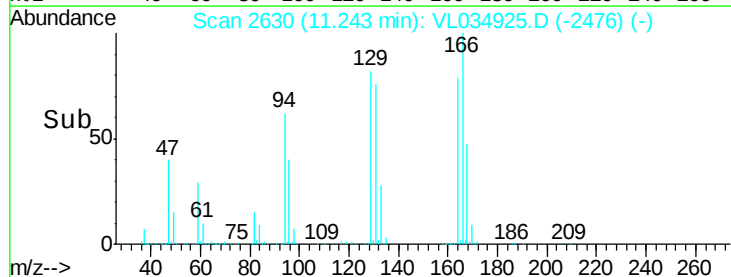
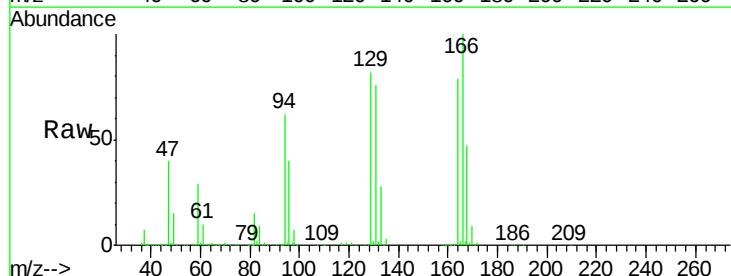
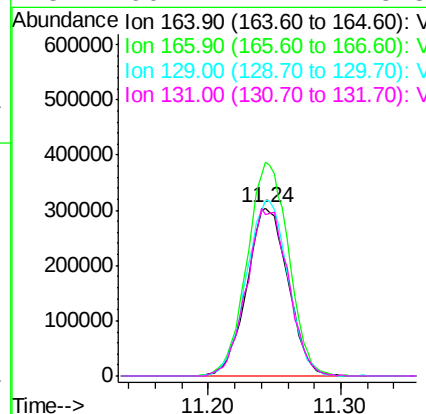
RT: 11.24 min Scan# 2630

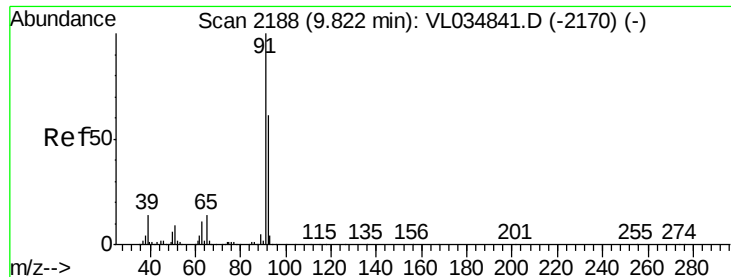
Delta R.T. -0.00 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

Tgt Ion:	164	Resp:	657753
Ion	Ratio	Lower	Upper
164	100		
166	127.2	100.0	150.0
129	104.2	83.1	124.7
131	96.1	77.2	115.8





#53

Toluene

Concen: 9.538 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. -0.00 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2203075

Ion Ratio Lower Upper

91 100

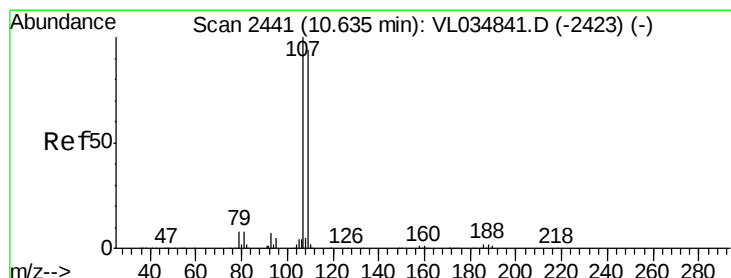
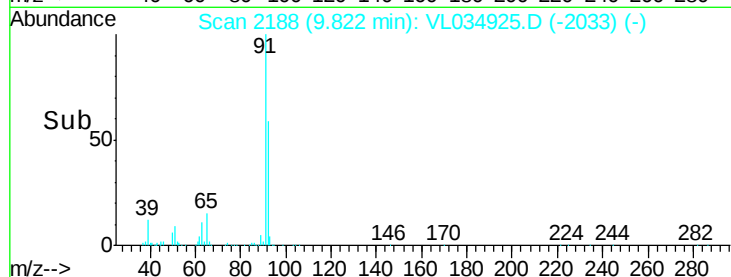
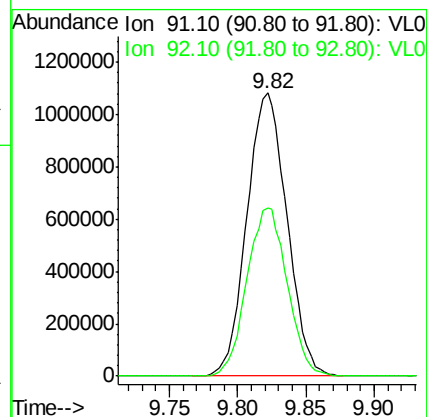
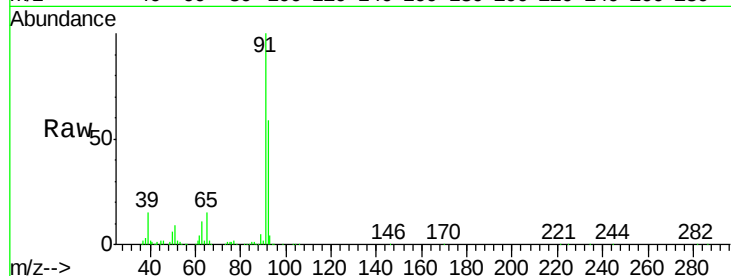
92 59.9 48.6 72.8

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#54

1,2-Dibromoethane

Concen: 9.450 ppbv

RT: 10.63 min Scan# 2440

Delta R.T. -0.00 min

Lab File: VL034925.D

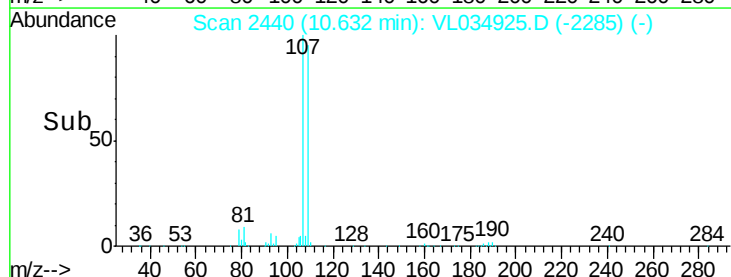
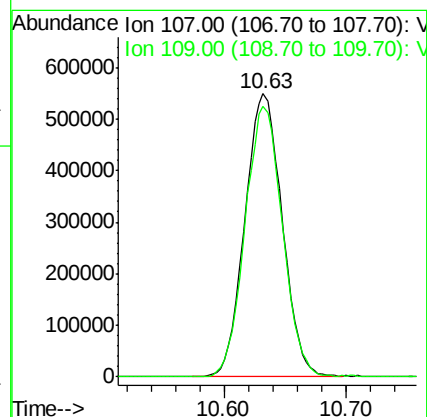
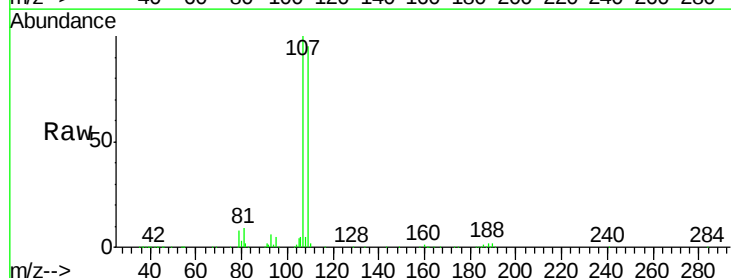
Acq: 17 Mar 2020 21:22

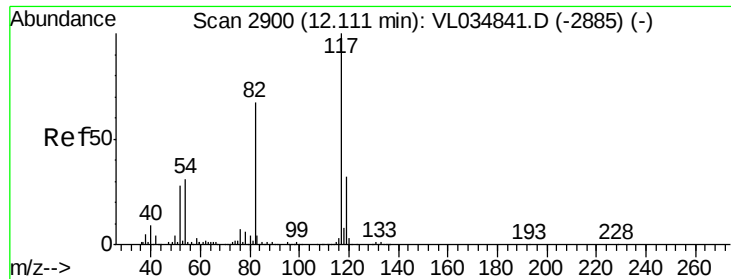
Tgt Ion: 107 Resp: 1156952

Ion Ratio Lower Upper

107 100

109 95.4 74.9 112.3





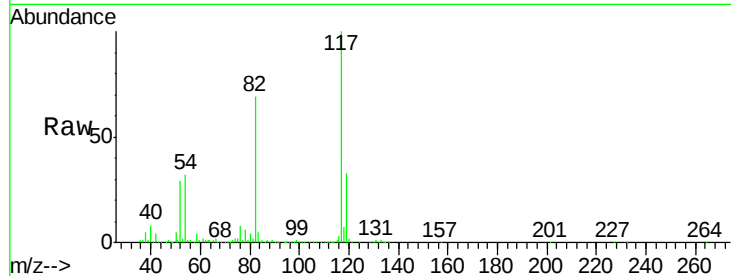
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.11 min Scan# 2899
Delta R.T. -0.00 min
Lab File: VL034925.D
Acq: 17 Mar 2020 21:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

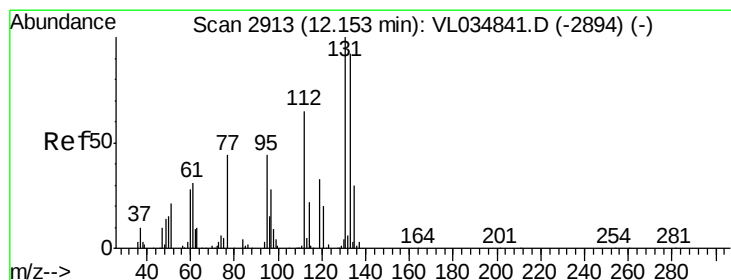
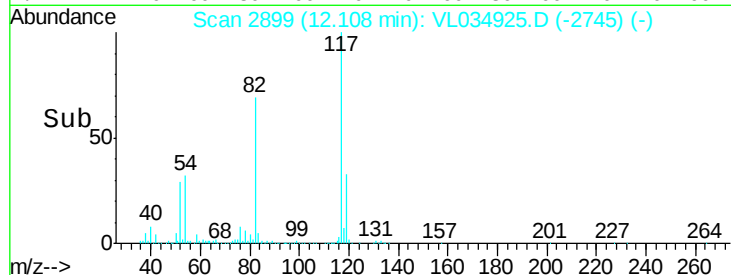
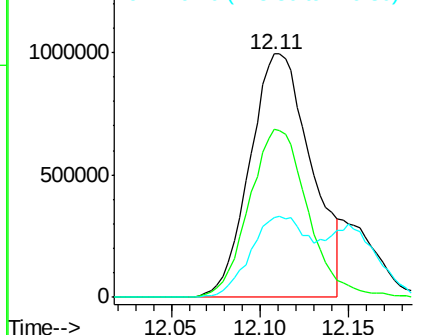
Tot Ion:117 Resp: 2386196
Ion Ratio Lower Upper
117 100
82 66.4 51.1 76.7
119 32.6 27.3 40.9

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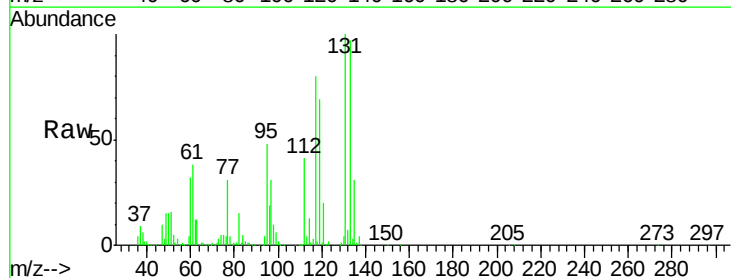


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): V
Ion 119.10 (118.80 to 119.80): V

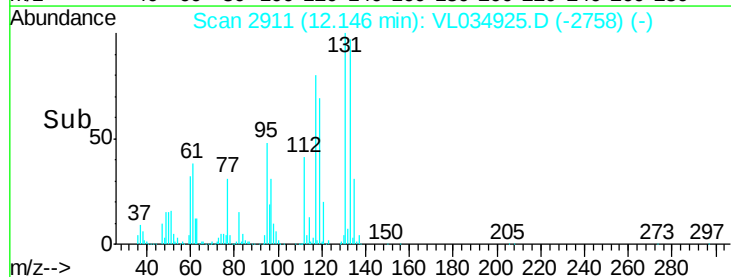
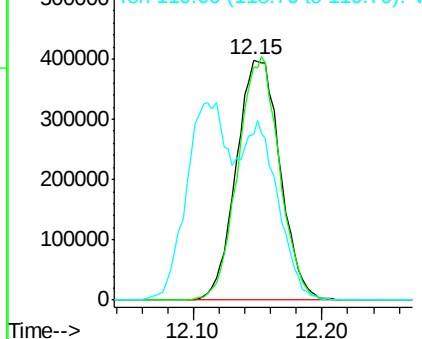


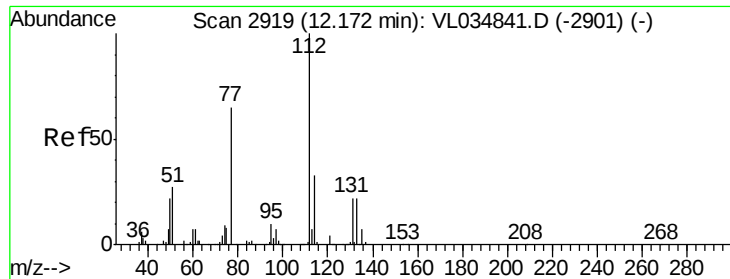
#56
1,1,1,2-Tetrachloroethane
Concen: 8.804 ppbv m
RT: 12.15 min Scan# 2911
Delta R.T. -0.01 min
Lab File: VL034925.D
Acq: 17 Mar 2020 21:22

Tgt Ion:131 Resp: 943728
Ion Ratio Lower Upper
131 100
133 95.8 76.0 114.0
119 59.8 47.8 71.8



Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 8.651 ppbv

RT: 12.17 min Scan# 2919

Delta R.T. -0.00 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:112 Resp: 1615193

Ion Ratio Lower Upper

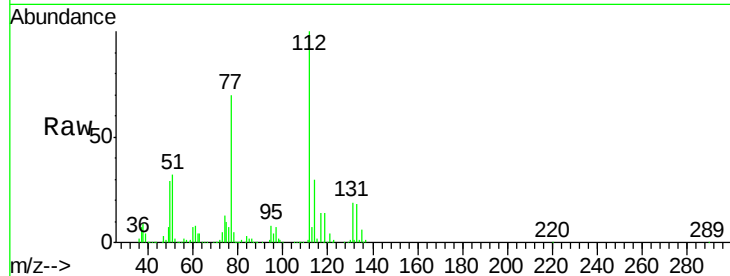
112 100

77 70.2 53.0 79.6

114 29.9 29.5 36.1

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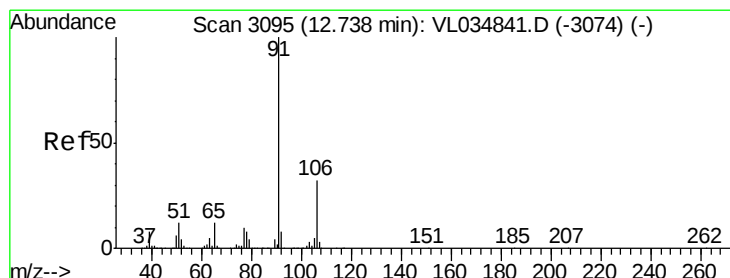
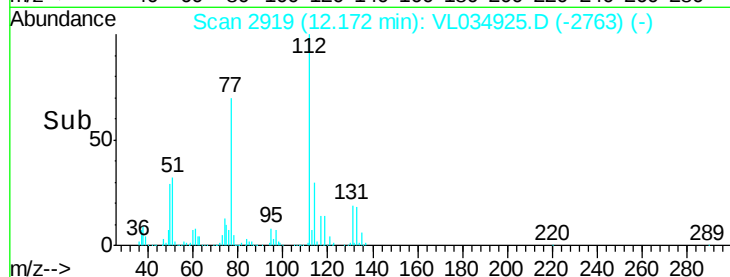
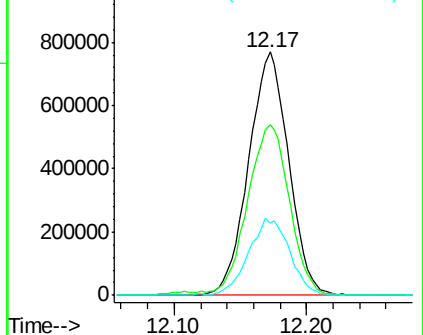
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 9.038 ppbv

RT: 12.73 min Scan# 3094

Delta R.T. -0.00 min

Lab File: VL034925.D

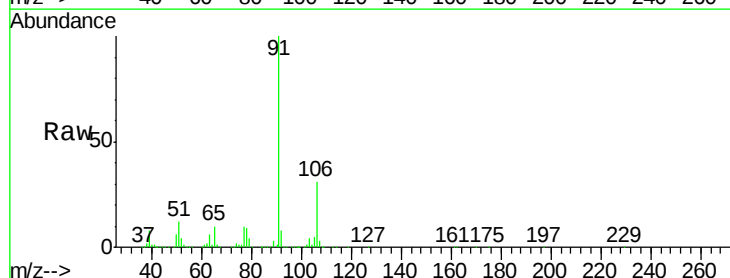
Acq: 17 Mar 2020 21:22

Tgt Ion: 91 Resp: 2920675

Ion Ratio Lower Upper

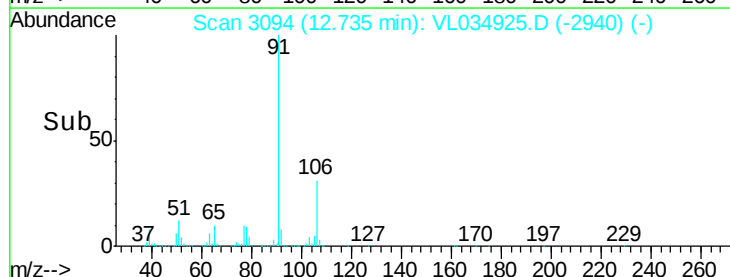
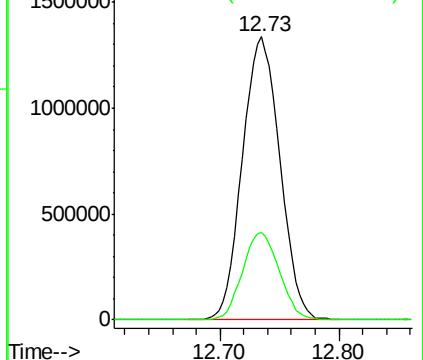
91 100

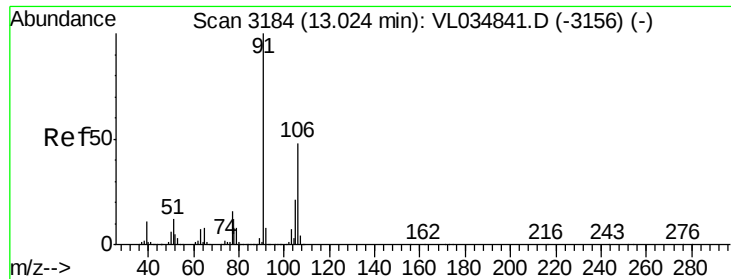
106 30.9 25.8 38.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





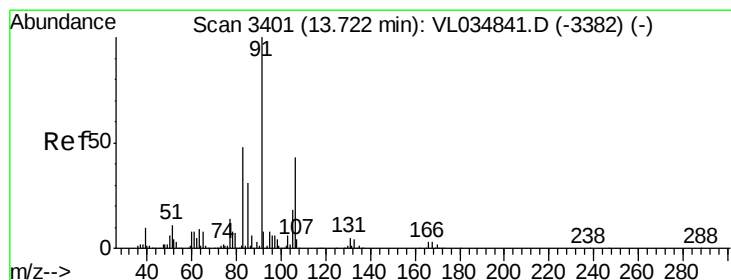
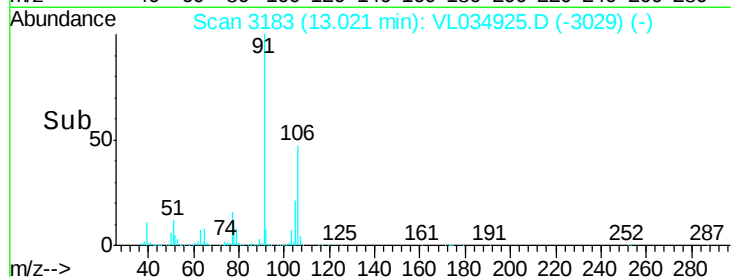
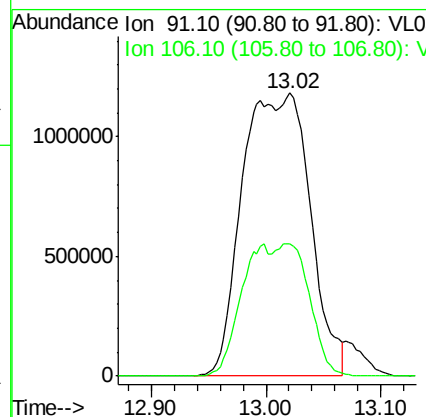
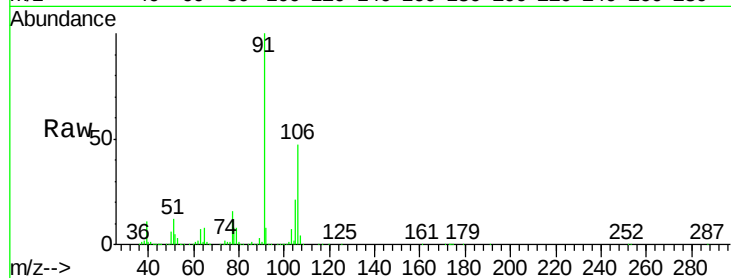
#59
m/p-Xylene
Concen: 17.832 ppbv m
RT: 13.02 min Scan# 3183
Delta R.T. -0.00 min
Lab File: VL034925.D
Acq: 17 Mar 2020 21:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 4827501
Ion Ratio Lower Upper
91 100
106 45.4 37.1 55.7

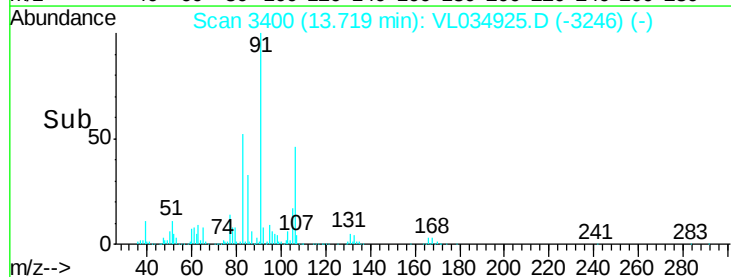
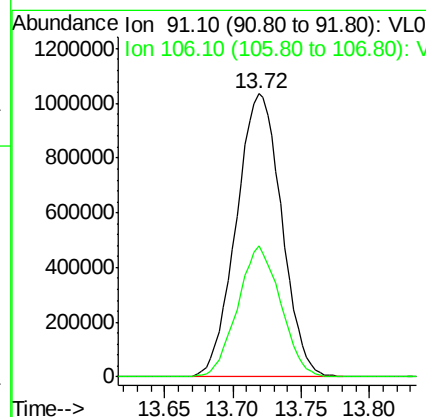
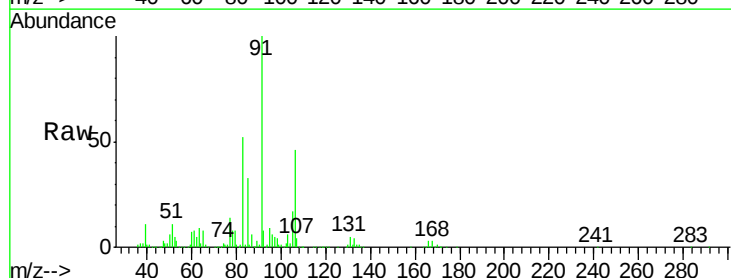
Manual Integrations
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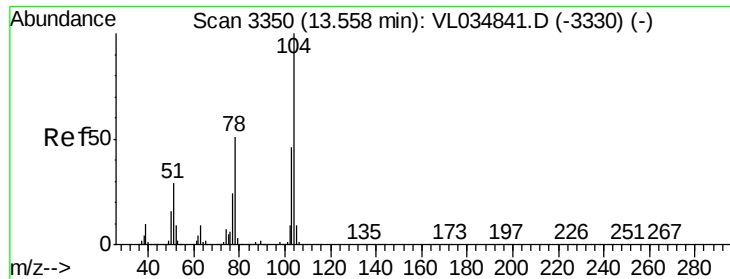
MMDadoda
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#60
o-Xylene
Concen: 8.976 ppbv
RT: 13.72 min Scan# 3400
Delta R.T. -0.00 min
Lab File: VL034925.D
Acq: 17 Mar 2020 21:22

Tgt Ion: 91 Resp: 2372747
Ion Ratio Lower Upper
91 100
106 44.2 22.5 67.5





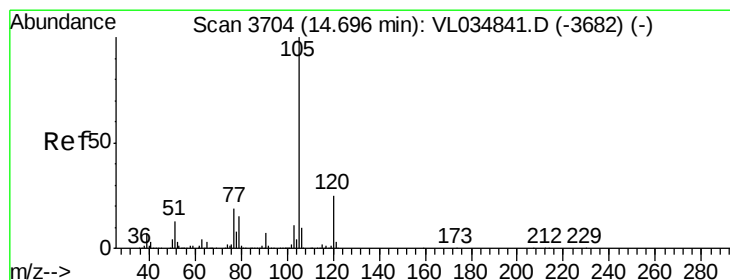
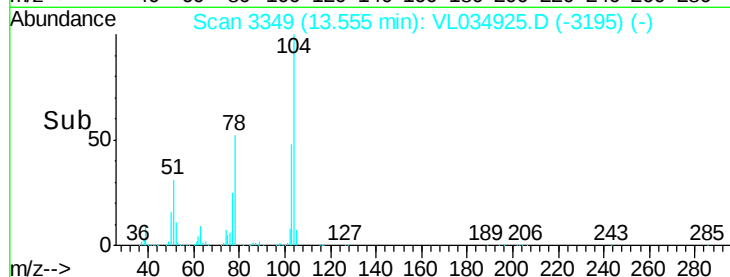
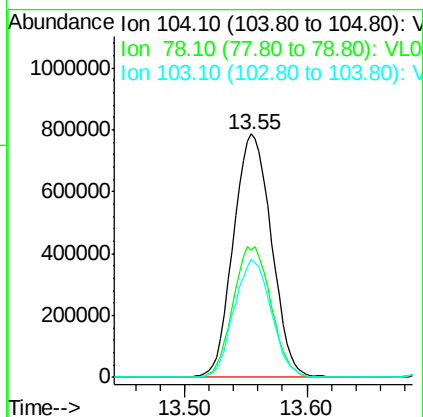
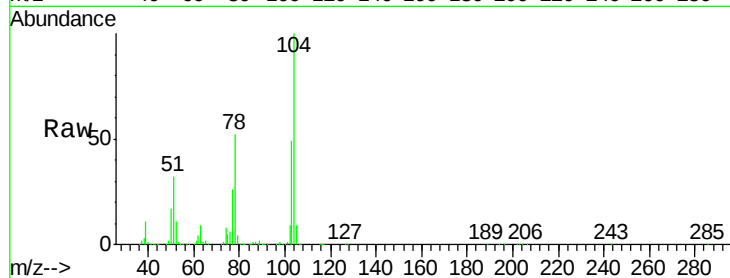
#61
Stvrene
Concen: 9.164 ppbv
RT: 13.55 min Scan# 3349
Delta R.T. -0.00 min
Lab File: VL034925.D
Acq: 17 Mar 2020 21:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:104 Resp: 1700020
Ion Ratio Lower Upper
104 100
78 53.9 41.8 62.6
103 47.3 37.8 56.6

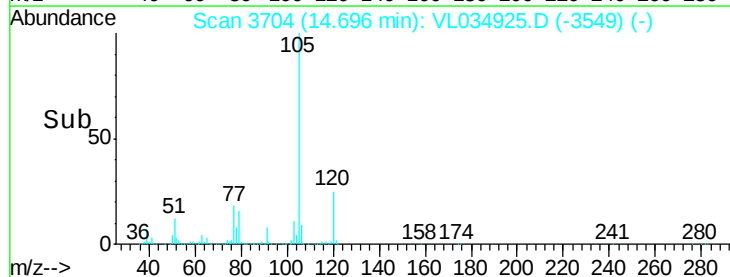
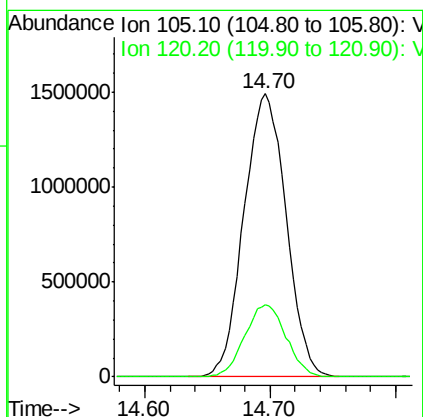
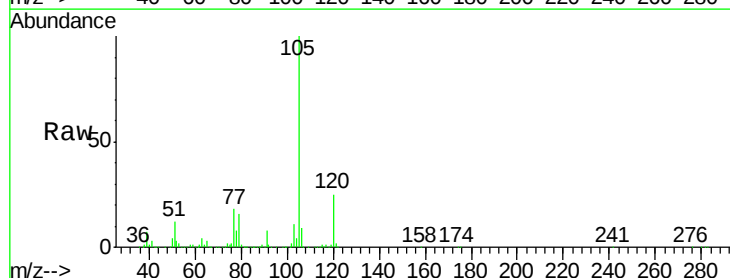
Manual Integrations
APPROVED

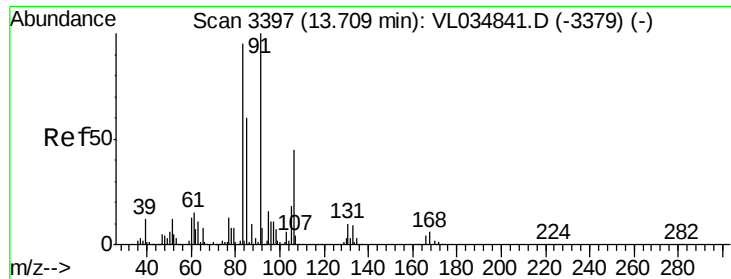
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#62
Isopropylbenzene
Concen: 8.730 ppbv
RT: 14.70 min Scan# 3704
Delta R.T. -0.00 min
Lab File: VL034925.D
Acq: 17 Mar 2020 21:22

Tgt Ion:105 Resp: 3489477
Ion Ratio Lower Upper
105 100
120 25.0 21.0 31.4





#63

1,1,2,2-Tetrachloroethane

Concen: 9.191 ppbv

RT: 13.71 min Scan# 3396

Delta R.T. -0.00 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 1649235

Ion Ratio Lower Upper

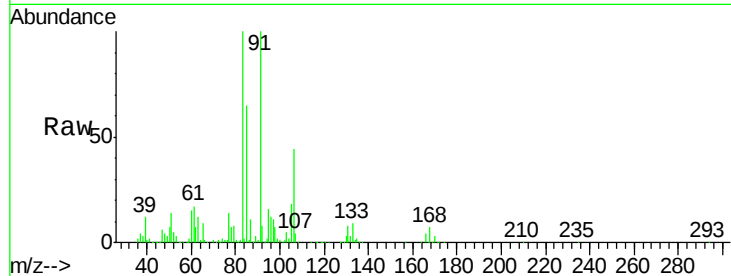
83 100

131 9.0 5.0 14.9

85 65.0 32.4 97.2

Manual Integrations
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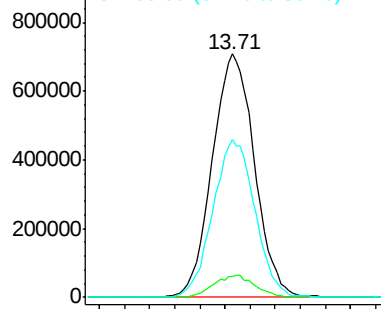
MMDadoda
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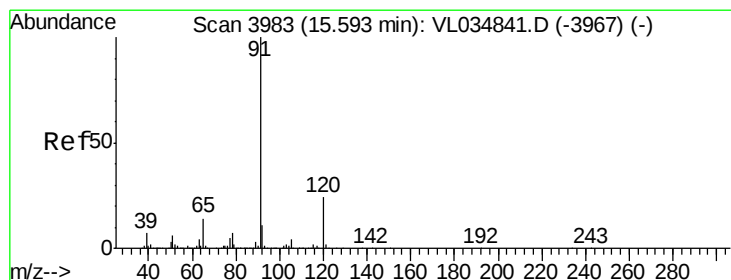
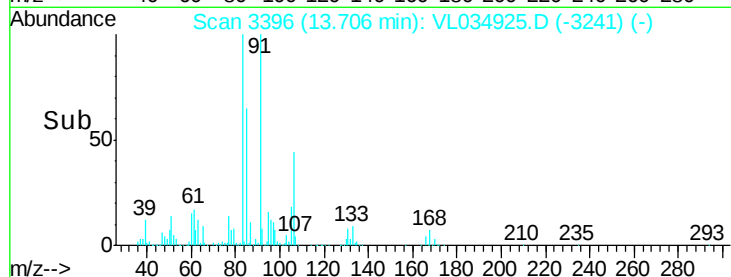
Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



Time--> 13.60 13.70 13.80



#64

n-propylbenzene

Concen: 8.685 ppbv

RT: 15.59 min Scan# 3982

Delta R.T. -0.00 min

Lab File: VL034925.D

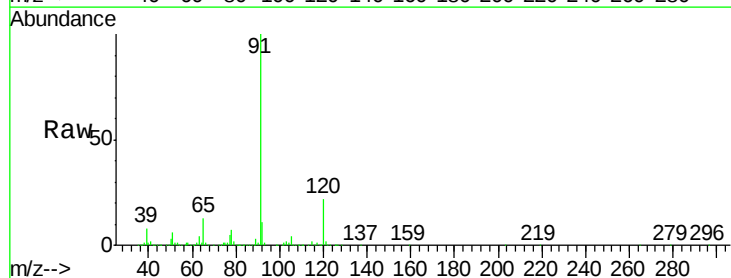
Acq: 17 Mar 2020 21:22

Tgt Ion:120 Resp: 903447

Ion Ratio Lower Upper

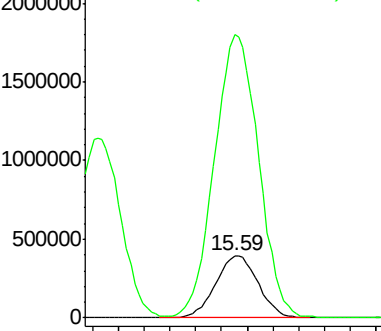
120 100

91 474.6 360.9 541.3

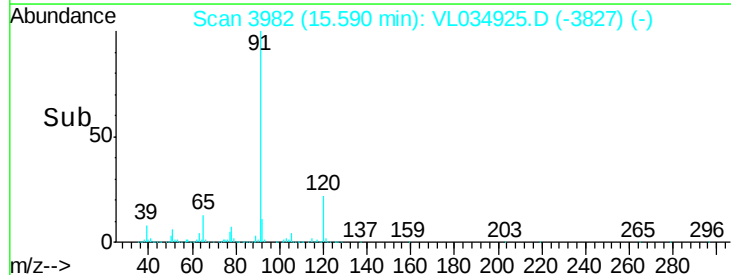


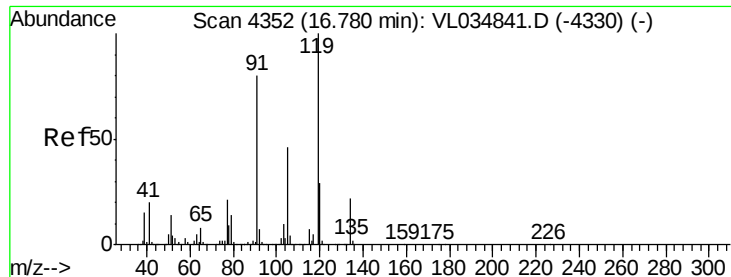
Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0



Time--> 15.50 15.60





#65

tert-Butylbenzene

Concen: 8.486 ppbv

RT: 16.78 min Scan# 4352

Delta R.T. -0.00 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 2965064

Ion Ratio Lower Upper

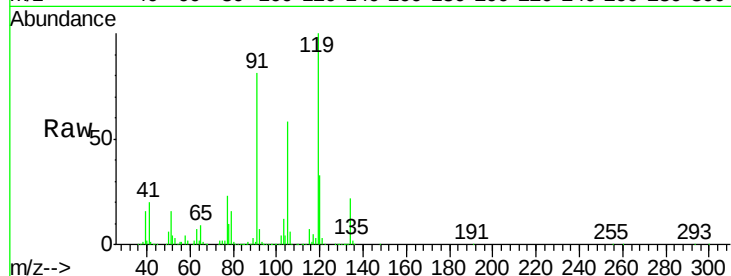
119 100

91 84.6 64.9 97.3

134 19.8 15.9 23.9

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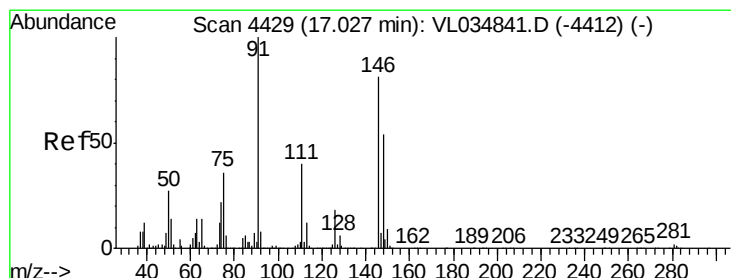
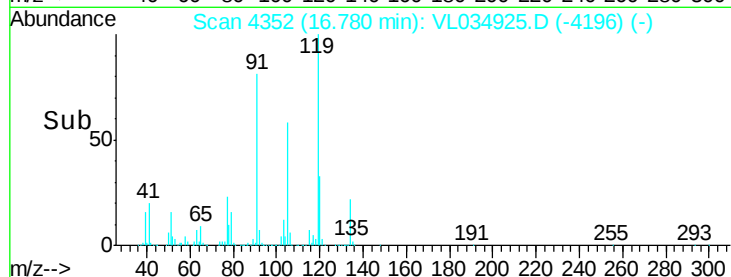
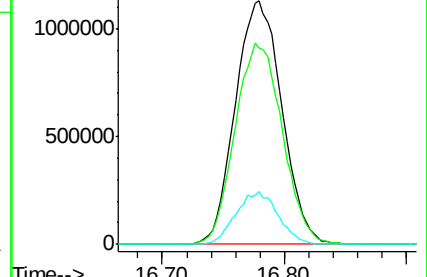
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 8.606 ppbv

RT: 17.03 min Scan# 4429

Delta R.T. -0.00 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

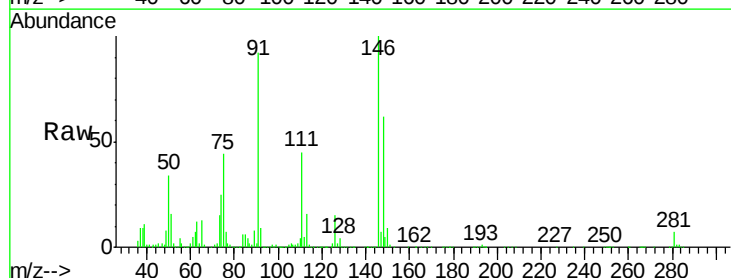
Tgt Ion: 91 Resp: 1253788

Ion Ratio Lower Upper

91 100

126 16.2 14.7 22.1

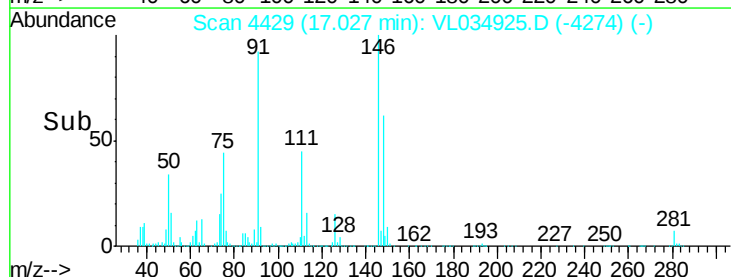
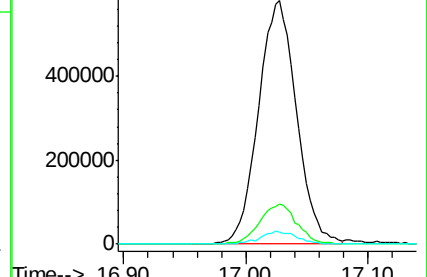
128 5.0 4.7 7.1

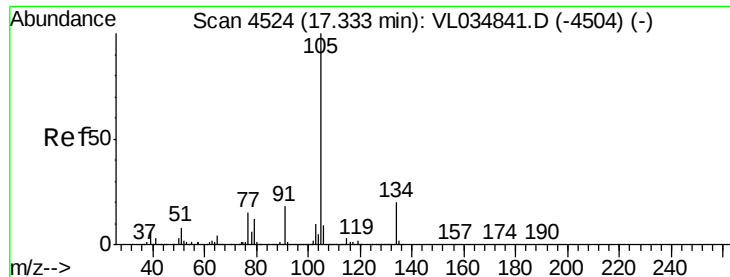


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 8.902 ppbv

RT: 17.33 min Scan# 4523

Delta R.T. -0.00 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 4312798

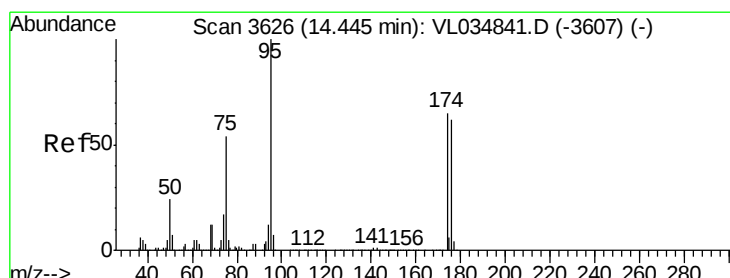
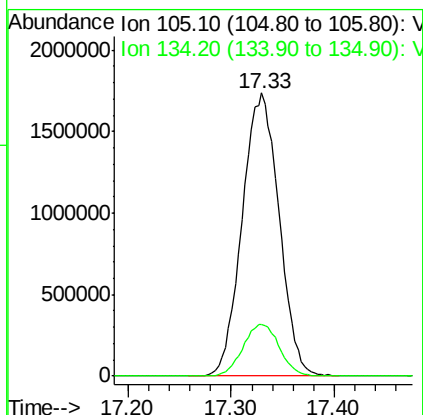
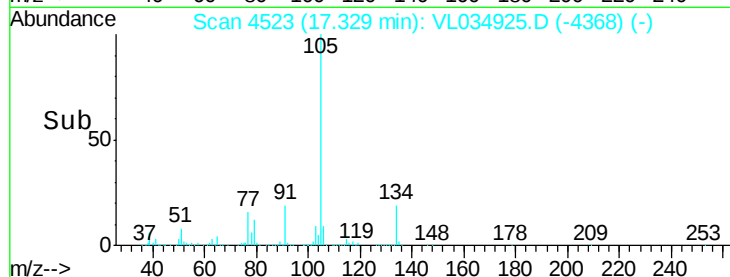
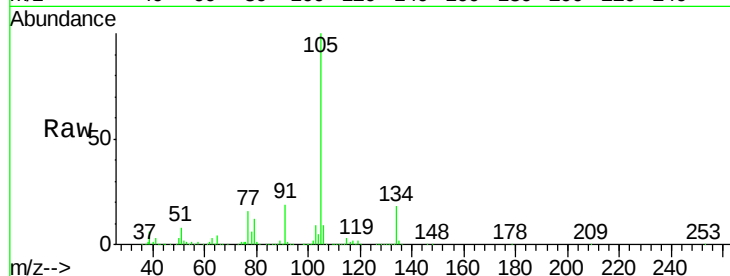
Ion Ratio Lower Upper

105 100

134 18.1 15.0 22.6

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#68

1-Bromo-4-Fluorobenzene

Concen: 10.167 ppbv

RT: 14.45 min Scan# 3627

Delta R.T. 0.00 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

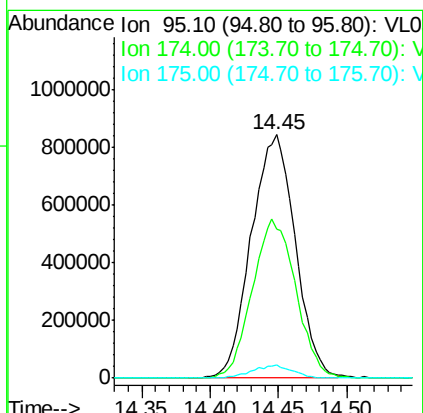
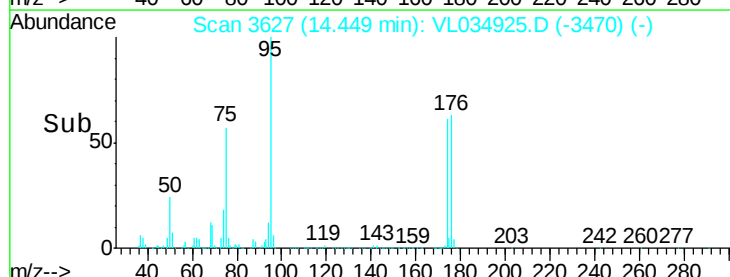
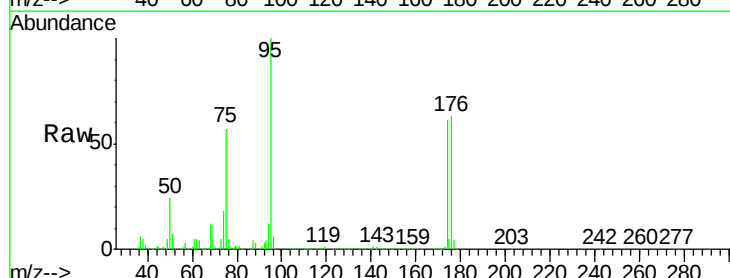
Tgt Ion: 95 Resp: 1892000

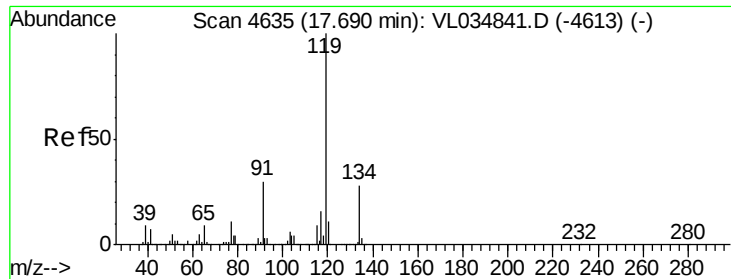
Ion Ratio Lower Upper

95 100

174 64.8 55.2 82.8

175 4.9 4.3 6.5





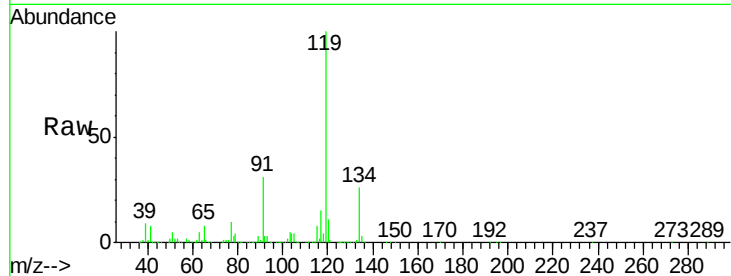
#69
 p-Isopropyltoluene
 Concen: 8.812 ppbv
 RT: 17.69 min Scan# 4634
 Delta R.T. -0.00 min
 Lab File: VL034925.D
 Acq: 17 Mar 2020 21:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

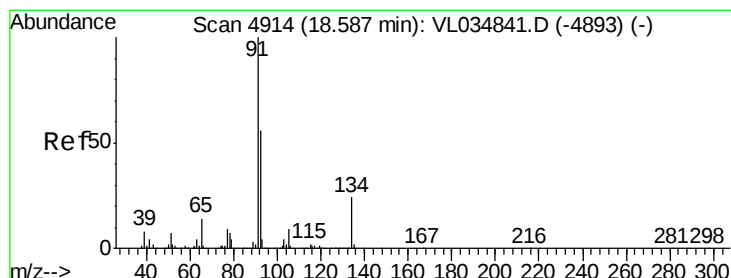
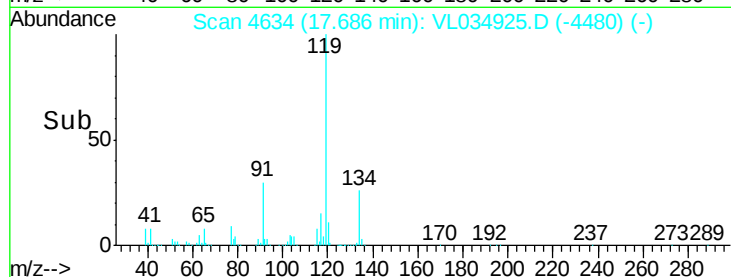
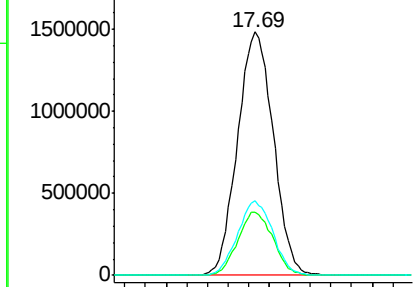
Tot Ion	Ratio	Lower	Upper
119	100		
134	25.6	20.6	30.8
91	30.4	23.4	35.2

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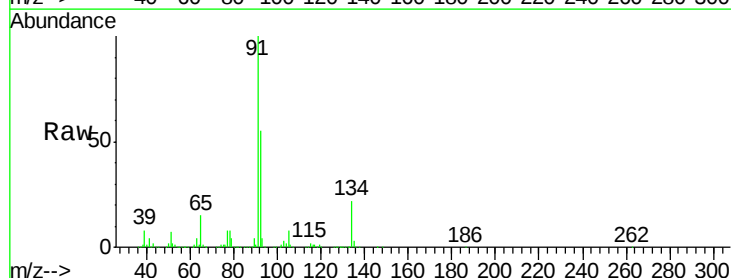


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

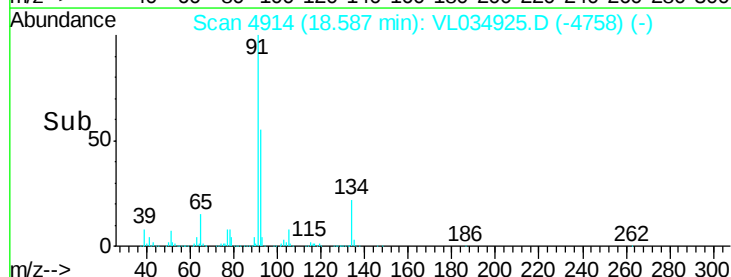
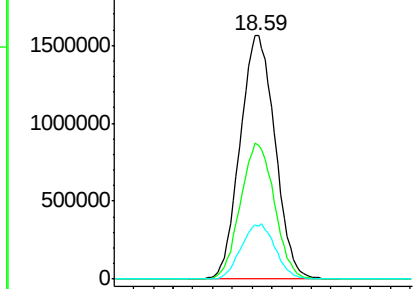


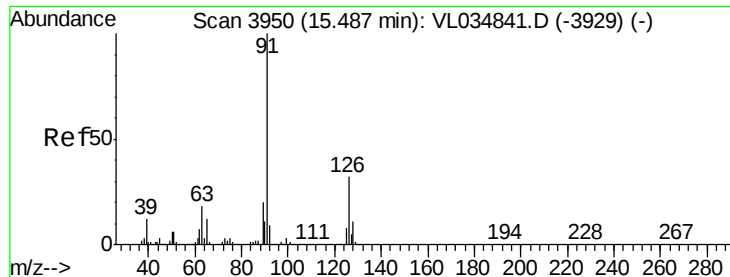
#70
 n-Butylbenzene
 Concen: 9.243 ppbv
 RT: 18.59 min Scan# 4914
 Delta R.T. -0.00 min
 Lab File: VL034925.D
 Acq: 17 Mar 2020 21:22

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.4	43.8	65.6
134	22.3	19.0	28.4



Abundance Ion 91.10 (90.80 to 91.80): V
 Ion 92.10 (91.80 to 92.80): V
 Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 8.813 ppbv

RT: 15.48 min Scan# 3949

Delta R.T. -0.00 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2667608

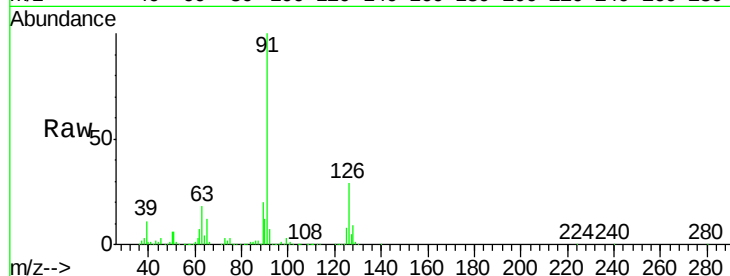
Ion Ratio Lower Upper

91 100

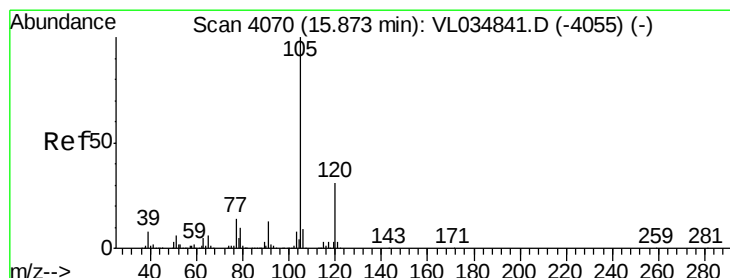
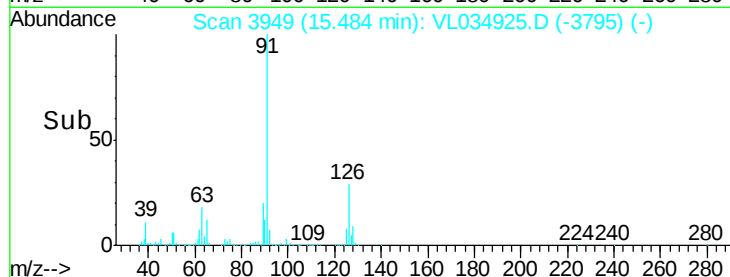
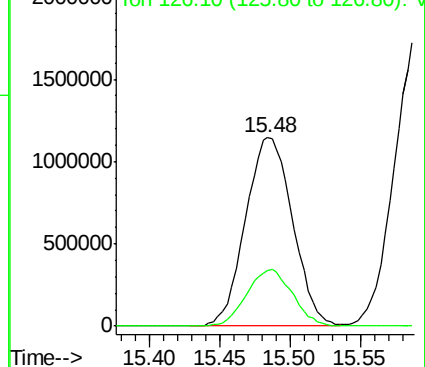
126 29.3 12.3 49.1

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



#72

4-Ethyltoluene

Concen: 9.007 ppbv

RT: 15.87 min Scan# 4069

Delta R.T. -0.00 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

Tgt Ion: 105 Resp: 2811730

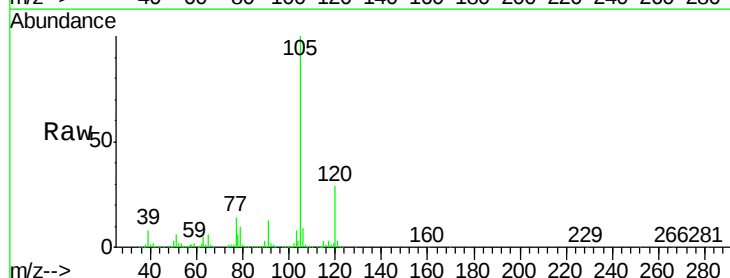
Ion Ratio Lower Upper

105 100

120 29.0 23.7 35.5

91 12.8 10.5 15.7

77 14.2 11.1 16.7

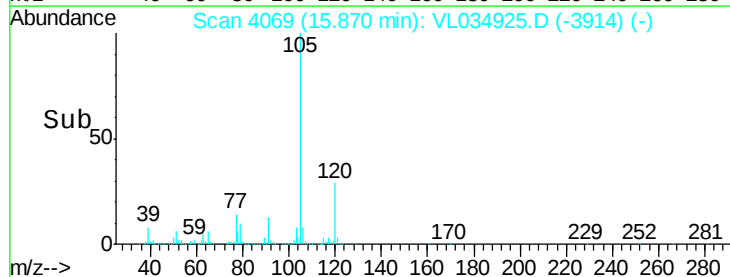
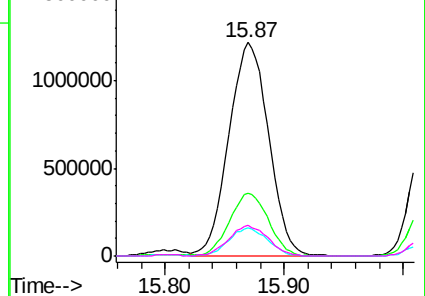


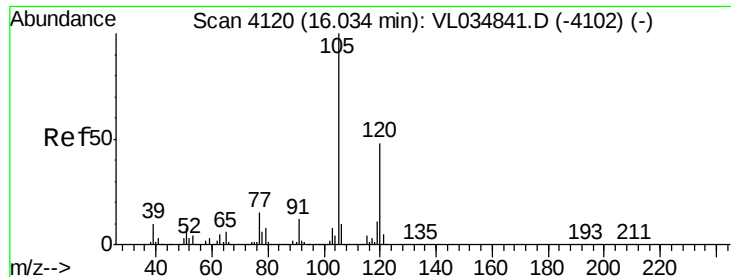
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 9.027 ppbv

RT: 16.03 min Scan# 4118

Delta R.T. -0.01 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 2637772

Ion Ratio Lower Upper

105 100

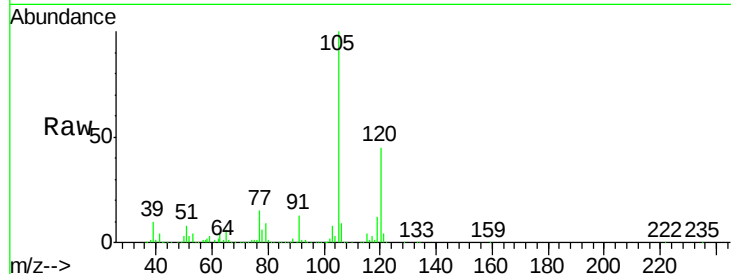
120 44.7 38.6 58.0

Manual Integrations

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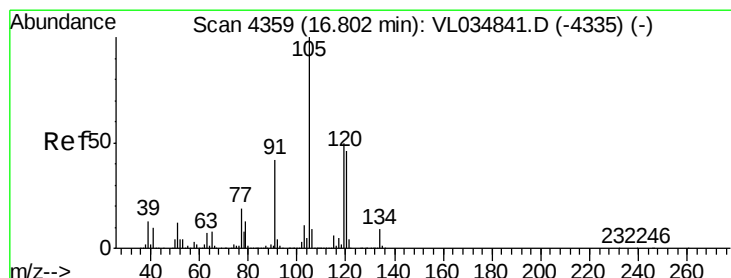
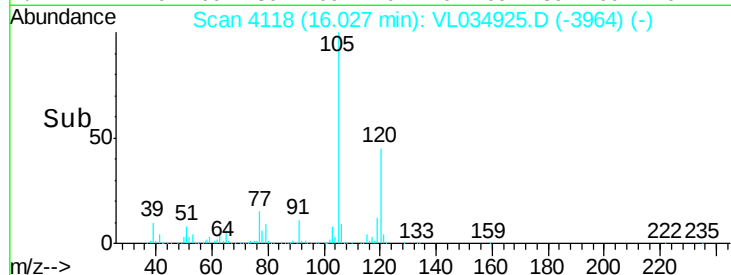
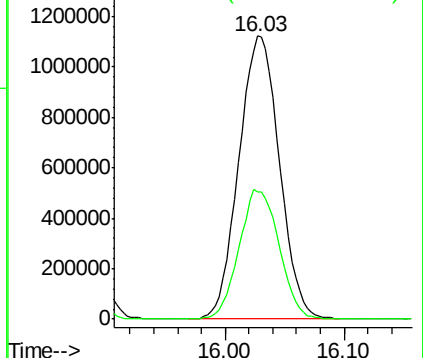
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 9.142 ppbv

RT: 16.80 min Scan# 4358

Delta R.T. -0.00 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

Tgt Ion:105 Resp: 2752212

Ion Ratio Lower Upper

105 100

120 44.4 37.0 55.4

91 42.6 33.8 50.6

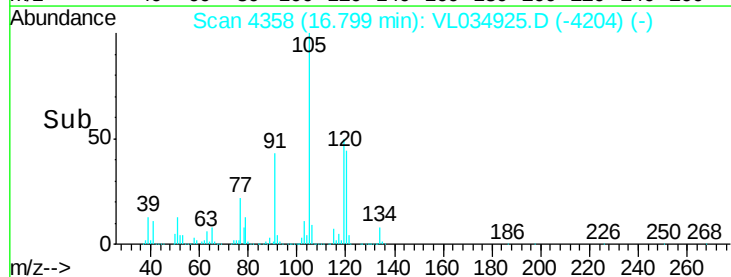
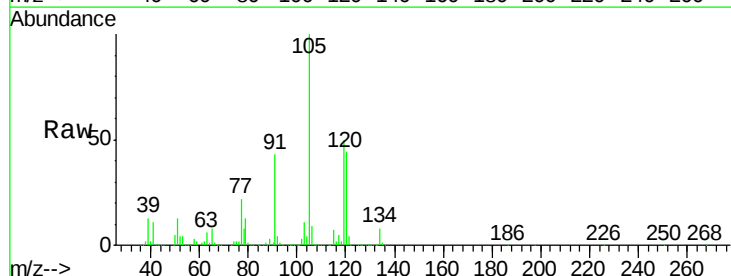
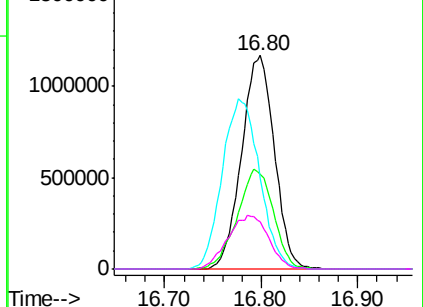
77 22.3 15.4 23.0

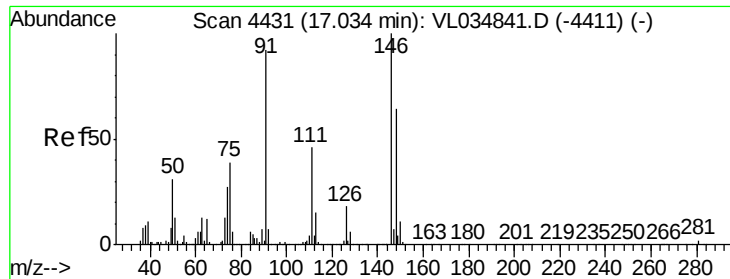
Abundance Ion 105.10 (104.80 to 105.80): V

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: 8.662 ppbv

RT: 17.03 min Scan# 4431

Delta R.T. -0.00 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 1572432

Ion Ratio Lower Upper

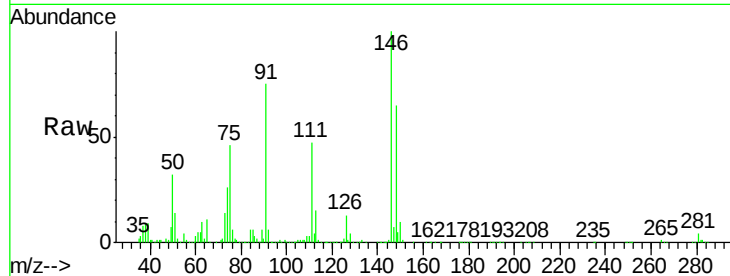
146 100

111 48.4 23.9 71.7

148 64.5 32.5 97.5

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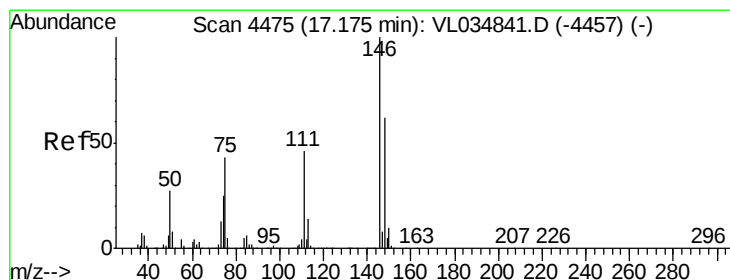
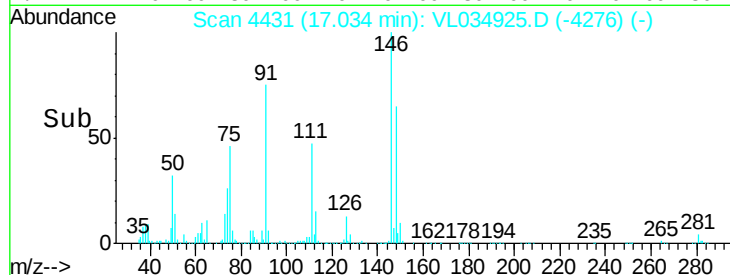
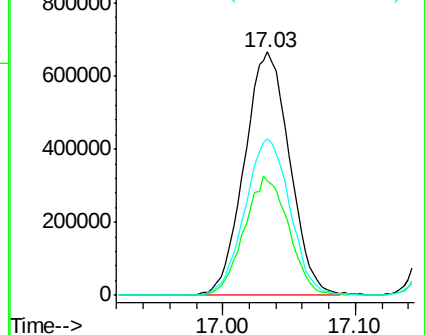
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 8.700 ppbv

RT: 17.18 min Scan# 4475

Delta R.T. -0.00 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

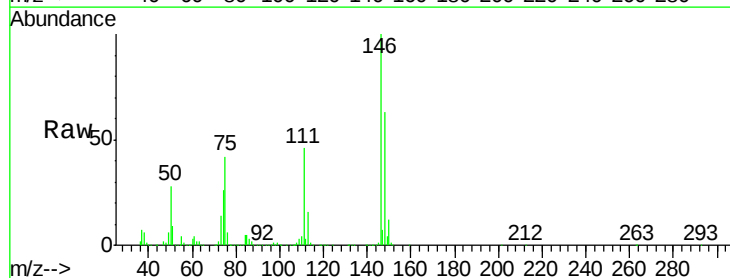
Tgt Ion:146 Resp: 1576019

Ion Ratio Lower Upper

146 100

111 47.1 23.4 70.2

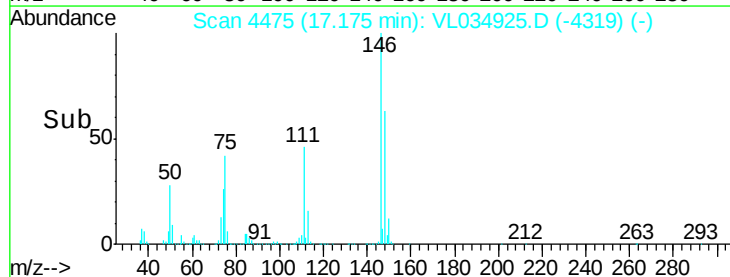
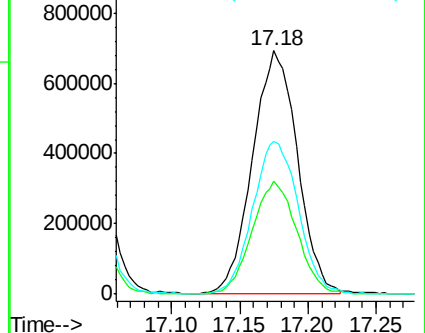
148 64.4 32.3 96.9

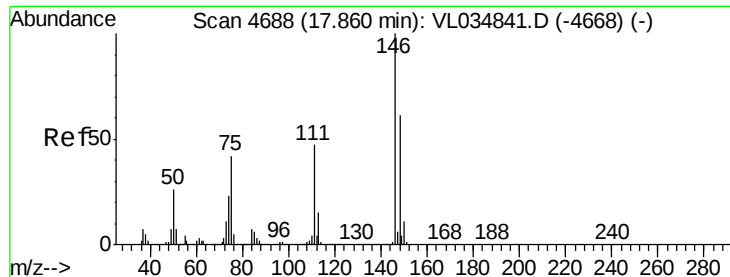


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





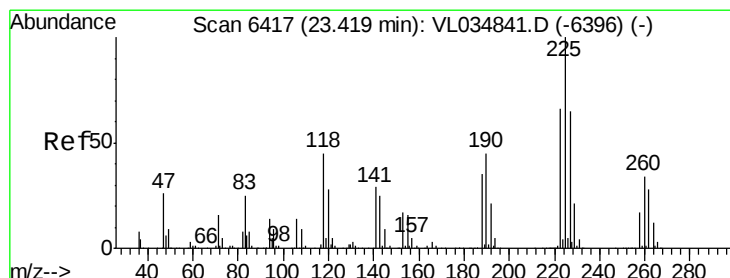
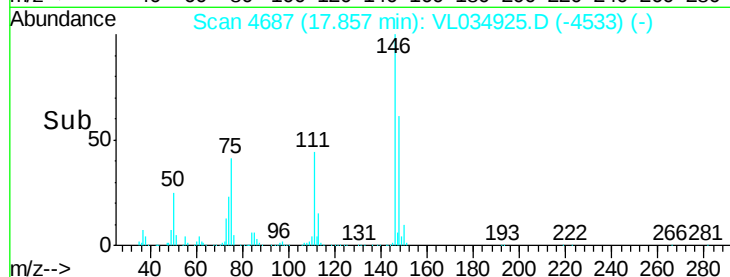
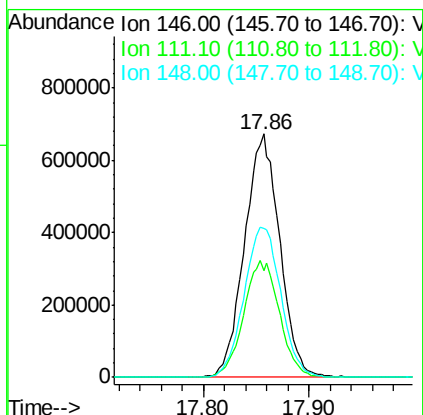
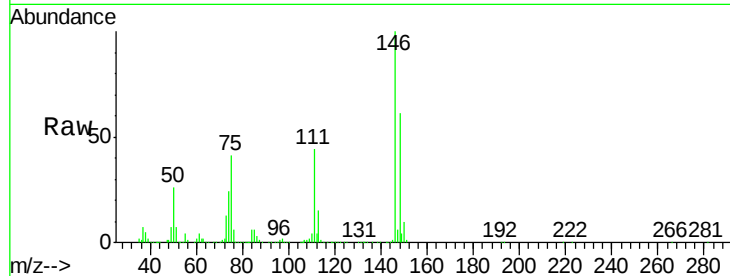
#77
 1,2-Dichlorobenzene
 Concen: 8.898 ppbv
 RT: 17.86 min Scan# 4687
 Delta R.T. -0.00 min
 Lab File: VL034925.D
 Acq: 17 Mar 2020 21:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.6	23.8	71.4
148	64.2	31.6	94.8

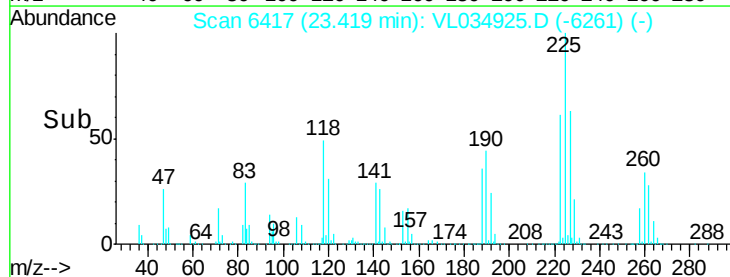
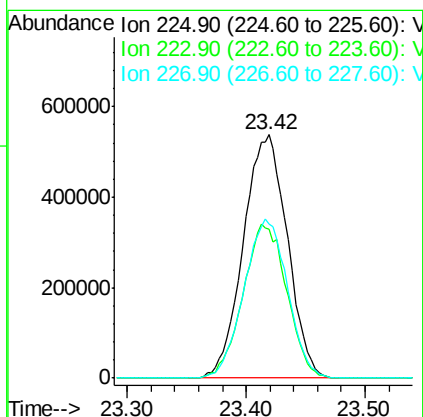
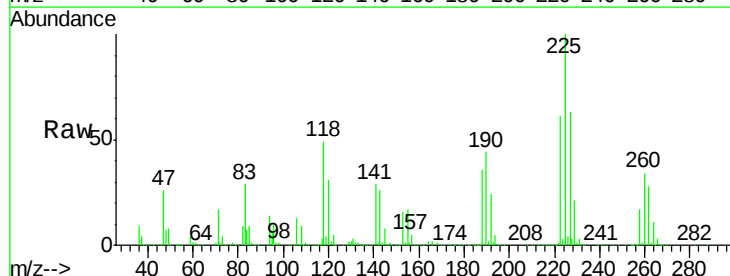
Manual Integrations
 APPROVED

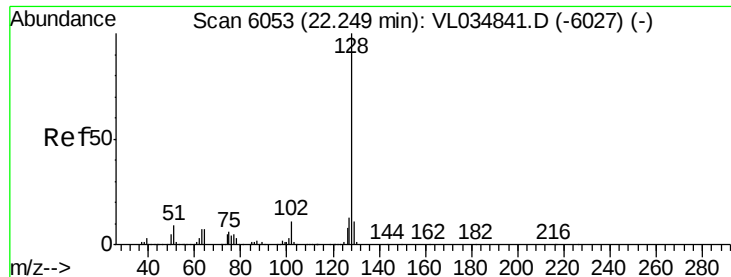
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#78
 Hexachloro-1,3-Butadiene
 Concen: 9.343 ppbv
 RT: 23.42 min Scan# 6417
 Delta R.T. -0.00 min
 Lab File: VL034925.D
 Acq: 17 Mar 2020 21:22

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.0	51.1	76.7
227	64.7	51.8	77.6





#79

Naphthalene

Concen: 11.526 ppbv

RT: 22.25 min Scan# 6053

Delta R.T. -0.00 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:128 Resp: 2706069

Ion Ratio Lower Upper

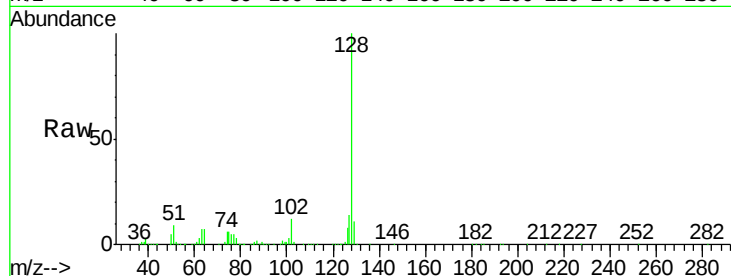
128 100

127 13.9 10.2 15.2

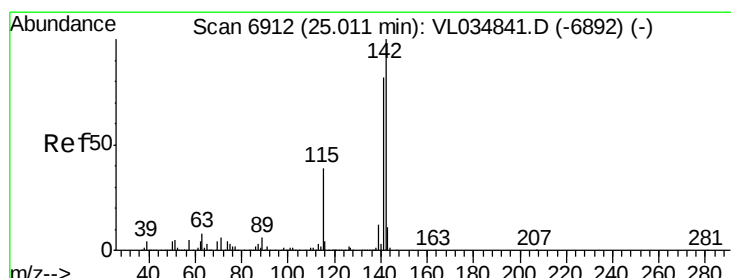
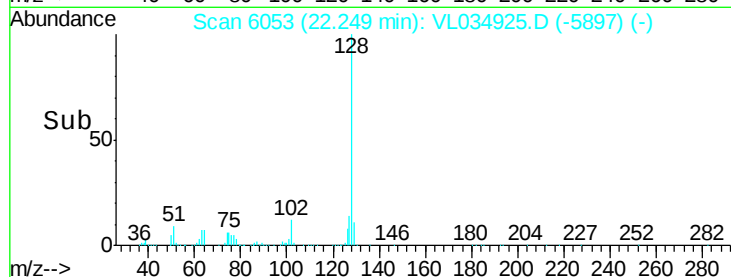
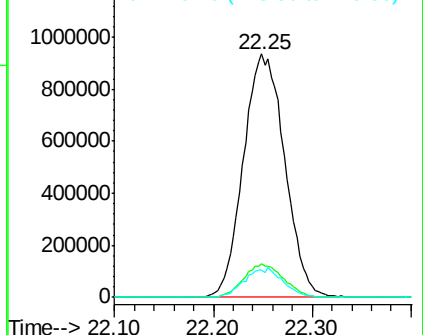
129 11.4 8.6 13.0

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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 16.425 ppbv

RT: 25.01 min Scan# 6911

Delta R.T. -0.00 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

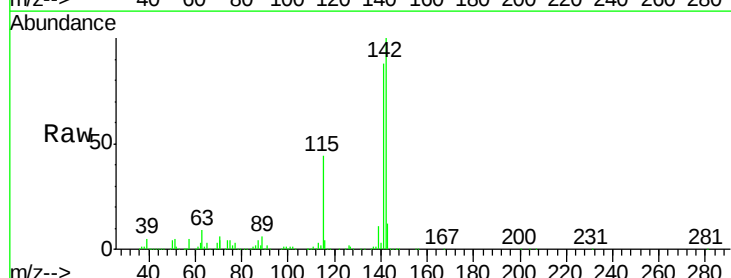
Tgt Ion:142 Resp: 1007803

Ion Ratio Lower Upper

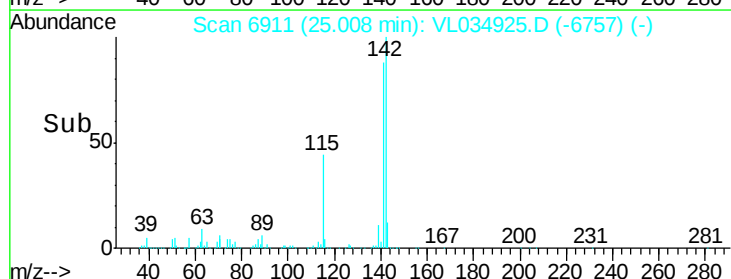
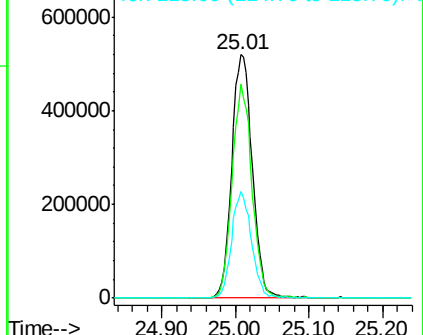
142 100

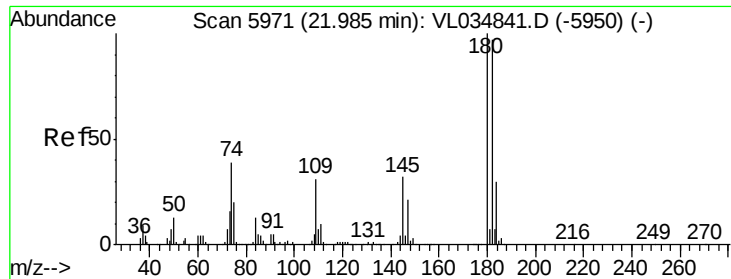
141 84.9 68.9 103.3

115 42.3 33.2 49.8



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





#81

1,2,4-Trichlorobenzene

Concen: 10.325 ppbv m

RT: 21.98 min Scan# 5968

Delta R.T. -0.01 min

Lab File: VL034925.D

Acq: 17 Mar 2020 21:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:180 Resp: 1540171

Ion Ratio Lower Upper

180 100

182 96.9 76.6 115.0

184 31.0 25.0 37.4

Manual Integrations

APPROVED

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