

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030920\
 Data File : VL034843.D
 Acq On : 9 Mar 2020 13:36
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
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 3/11/2020 3:25:59 PM

Quant Time: Mar 09 15:45:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 09 15:45:19 2020
 QLast Update : Mon Mar 09 15:34:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	936051	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2141657	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2158837	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	1688527	9.38	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	164606	1.078	ppbv	100
3) Chlorodifluoromethane	2.95	51	105850	0.993	ppbv	98
4) Chloromethane	3.10	50	62304	1.085	ppbv	95
5) Vinyl Chloride	3.22	62	60247	0.993	ppbv	94
6) Bromomethane	3.44	94	34076	1.029	ppbv	97
7) Chloroethane	3.52	64	21550	1.027	ppbv	90
8) Dichlorotetrafluoroethane	3.15	85	145062	1.093	ppbv	99
9) Propene	2.97	41	50111	1.194	ppbv	97
10) Heptane	8.13	43	127869	1.199	ppbv	97
11) Trichlorofluoromethane	3.92	101	146232	1.070	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.46	101	100022	1.061	ppbv	100
13) Ethanol	3.58	45	17596	1.223	ppbv	98
14) Bromoethene	3.71	108	43496	1.124	ppbv	93
15) Acetone	3.83	43	130876	1.168	ppbv	94
16) 1,3-Butadiene	3.29	39	53262	1.050	ppbv	95
17) tert-Butyl alcohol	4.27	59	125890	1.424	ppbv	100
18) 1,1-Dichloroethene	4.26	96	44538	1.071	ppbv	98
19) Isopropyl Alcohol	3.94	45	81619	1.215	ppbv #	40
20) Methylene Chloride	4.32	84	41369	1.034	ppbv	87
21) Allyl Chloride	4.38	41	79398	1.119	ppbv	96
22) trans-1,2-Dichloroethene	4.86	96	45598	1.123	ppbv	90
23) Vinyl Acetate	5.06	43	185593	1.235	ppbv #	96
24) 1,1-Dichloroethane	4.99	63	127044	1.089	ppbv	99
25) Ethyl Acetate	5.67	43	232351	1.200	ppbv	99
26) Hexane	5.67	57	96362m	1.139	ppbv	
27) Carbon Disulfide	4.53	76	104801	1.060	ppbv #	85
28) Methyl tert-Butyl Ether	5.02	73	165805	1.316	ppbv	99
29) Chloroform	5.74	83	151755	1.065	ppbv	92
30) Cyclohexane	7.13	84	79575	1.229	ppbv	96
31) cis-1,2-Dichloroethene	5.53	61	98151	1.131	ppbv	96
32) 1,1,1-Trichloroethane	6.50	97	146296	1.039	ppbv	98
34) 2-Butanone	5.23	43	150516	1.080	ppbv	98
35) Carbon Tetrachloride	7.02	117	143314	0.887	ppbv	93
36) Benzene	6.89	78	201939	1.103	ppbv	97
37) 1,2-Dichloroethane	6.30	62	115728	0.926	ppbv	99
38) Trichloroethene	7.84	130	77441	1.086	ppbv	94
39) 1,2-Dichloropropane	7.61	63	80134	1.085	ppbv	88
40) 1,4-Dioxane	7.87	88	32116m	1.257	ppbv	
41) Tetrahydrofuran	6.05	42	82383	1.159	ppbv	98
42) Bromodichloromethane	7.79	83	152631	0.965	ppbv	98
43) Methyl Methacrylate	8.02	69	80139	1.033	ppbv	95

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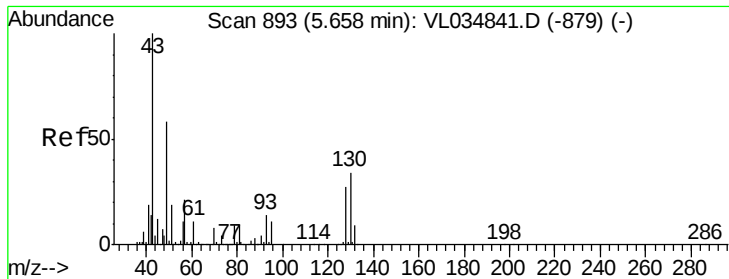
Manual Integrations
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Quant Time: Mar 09 15:45:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
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 QLast Update : Mon Mar 09 15:34:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	344603	1.078	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	93110	1.144	ppbv	93
46) cis-1,3-Dichloropropene	8.71	75	113556	1.142	ppbv	90
47) 1,1,2-Trichloroethane	9.48	97	81436m	1.044	ppbv	
48) Dibromochloromethane	10.32	129	127690	1.047	ppbv	98
49) Bromoform	13.06	173	110229	1.036	ppbv	98
50) 4-Methyl-2-Pentanone	8.76	43	215499	1.079	ppbv	100
51) 2-Hexanone	10.16	43	167640	1.070	ppbv #	96
52) Tetrachloroethene	11.24	164	75119	1.111	ppbv	96
53) Toluene	9.82	91	231340	1.194	ppbv	99
54) 1,2-Dibromoethane	10.63	107	122240	1.060	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.15	131	104049m	1.088	ppbv	
57) Chlorobenzene	12.17	112	185460	1.125	ppbv	93
58) Ethyl Benzene	12.73	91	309899	1.165	ppbv	96
59) m/p-Xylene	13.02	91	540482m	2.347	ppbv	
60) o-Xylene	13.71	91	264280m	1.134	ppbv	
61) Styrene	13.55	104	179464m	1.242	ppbv	
62) Isopropylbenzene	14.69	105	400163	1.167	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.70	83	178029	0.969	ppbv	98
64) n-propylbenzene	15.59	120	100573m	1.170	ppbv	
65) tert-Butylbenzene	16.78	119	349883	1.207	ppbv	98
66) Benzyl Chloride	17.02	91	132650m	1.416	ppbv	
67) sec-Butylbenzene	17.33	105	484358	1.147	ppbv	97
69) p-Isopropyltoluene	17.69	119	399981	1.170	ppbv	98
70) n-Butylbenzene	18.59	91	403150	1.079	ppbv	99
71) 2-Chlorotoluene	15.48	91	298443	1.152	ppbv	98
72) 4-Ethyltoluene	15.87	105	298408	1.150	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	281319	1.130	ppbv	91
74) 1,2,4-Trimethylbenzene	16.79	105	294473	1.089	ppbv #	80
75) 1,3-Dichlorobenzene	17.04	146	181028m	1.130	ppbv	
76) 1,4-Dichlorobenzene	17.18	146	180340m	1.177	ppbv	
77) 1,2-Dichlorobenzene	17.85	146	174589m	1.140	ppbv	
78) Hexachloro-1,3-Butadiene	23.42	225	140920	1.102	ppbv	99
79) Naphthalene	22.26	128	184743	0.909	ppbv #	92
80) Naphthalene, 2-methyl-	25.03	142	15063	0.310	ppbv	95
81) 1,2,4-Trichlorobenzene	21.99	180	125732	0.978	ppbv	95

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.00 min

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MSVOA_L

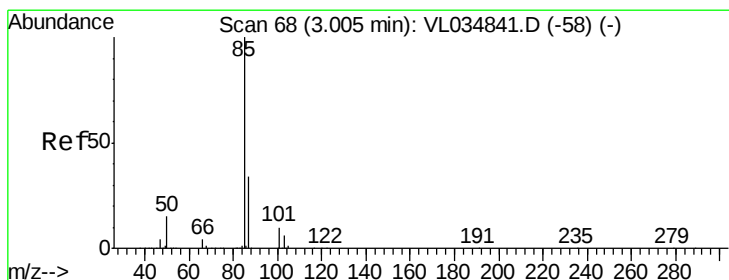
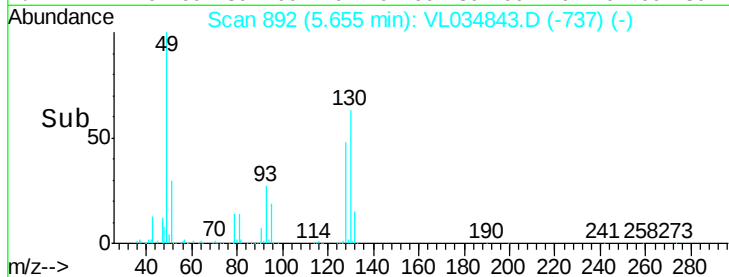
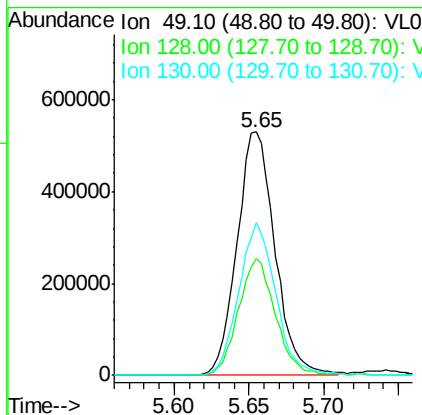
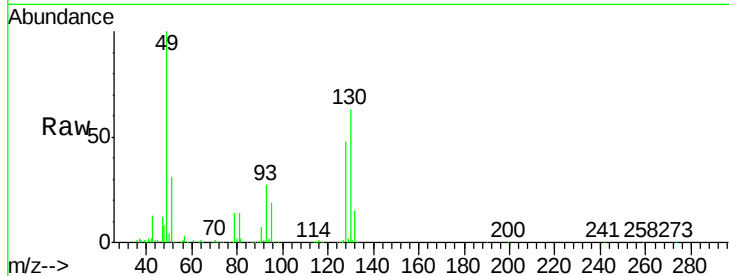
ClientSampleId :

VSTDIC001

Tot Ion:	49	Resp:	936051
Ion	Ratio	Lower	Upper
49	100		
128	47.1	23.4	70.3
130	61.8	30.0	90.0

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#2

Dichlorodifluoromethane

Concen: 1.078 ppbv

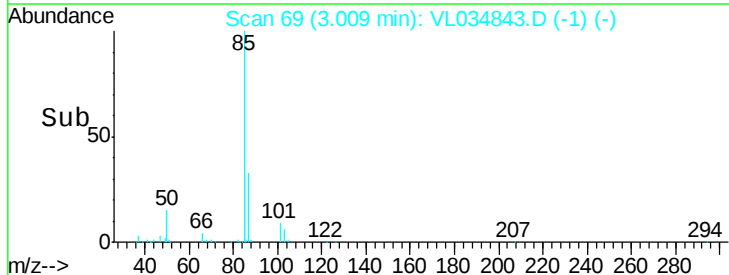
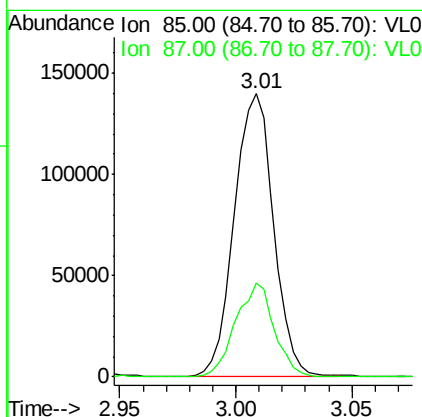
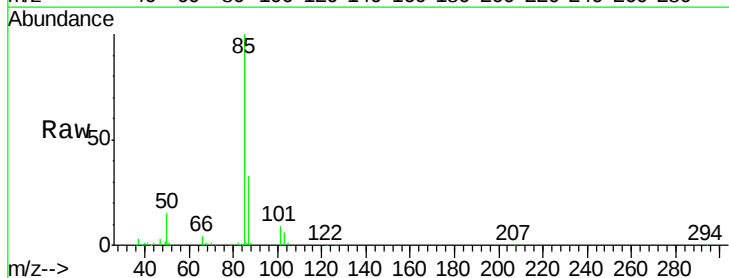
RT: 3.01 min Scan# 69

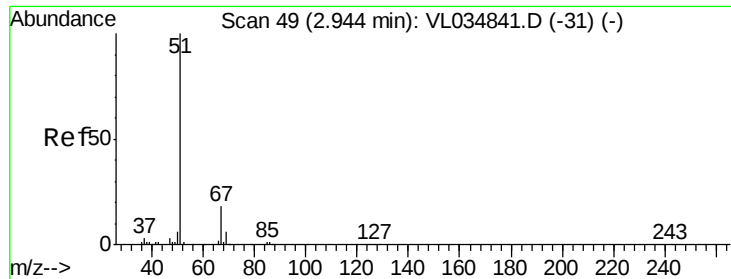
Delta R.T. 0.00 min

Lab File: VL034843.D

Acq: 9 Mar 2020 13:36

Tgt Ion:	85	Resp:	164606
Ion	Ratio	Lower	Upper
85	100		
87	33.3	26.9	40.3





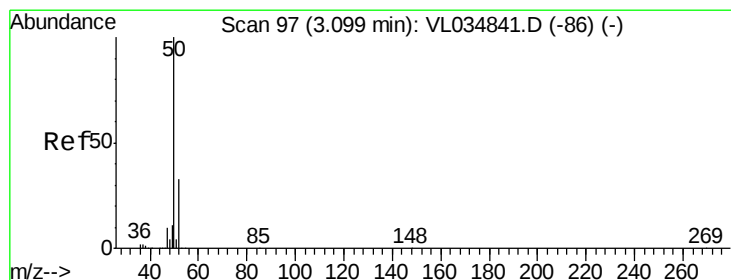
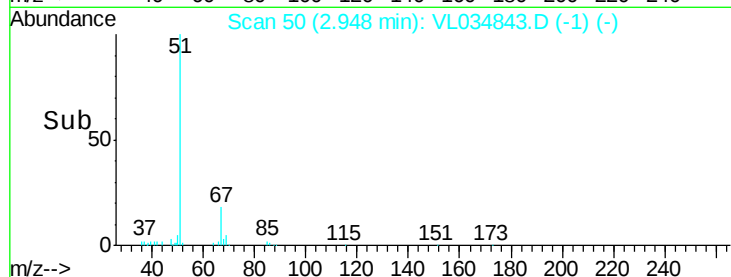
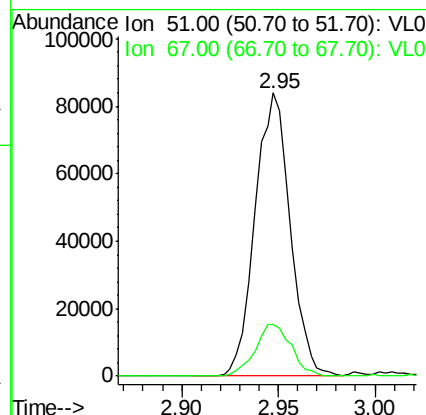
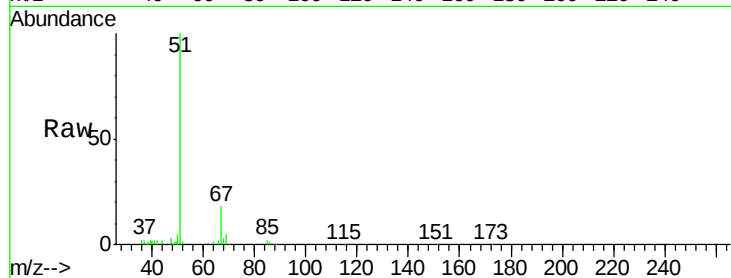
#3
Chlorodifluoromethane
Concen: 0.993 ppbv
RT: 2.95 min Scan# 50
Delta R.T. 0.00 min
Lab File: VL034843.D
Acq: 9 Mar 2020 13:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
51	100		
67	18.9	14.3	21.5

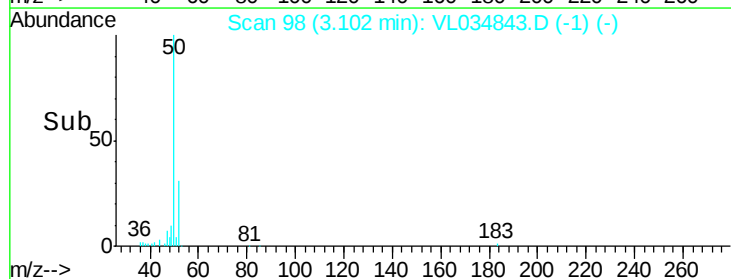
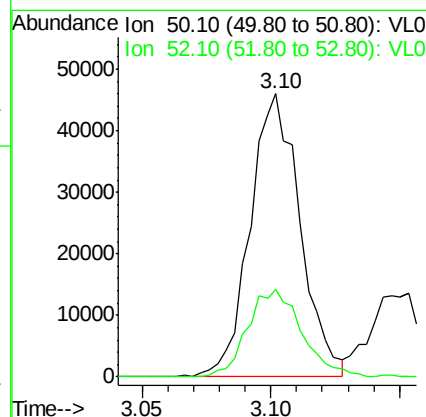
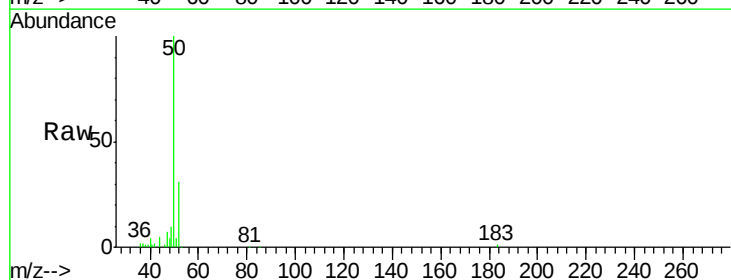
Manual Integrations
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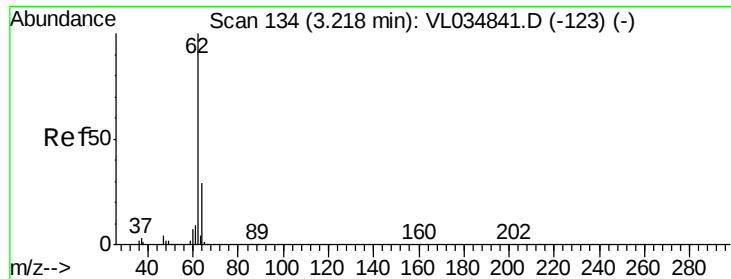
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#4
Chloromethane
Concen: 1.085 ppbv
RT: 3.10 min Scan# 98
Delta R.T. 0.00 min
Lab File: VL034843.D
Acq: 9 Mar 2020 13:36

Tgt Ion	Ratio	Lower	Upper
50	100		
52	30.9	26.8	40.2





#5

Vinyl Chloride

Concen: 0.993 ppbv

RT: 3.22 min Scan# 134

Delta R.T. 0.00 min

Lab File: VL034843.D

Acq: 9 Mar 2020 13:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 62 Resp: 60247

Ion Ratio Lower Upper

62 100

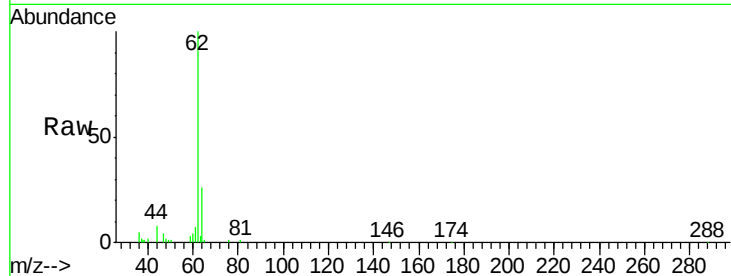
64 25.5 23.0 34.4

Manual Integrations

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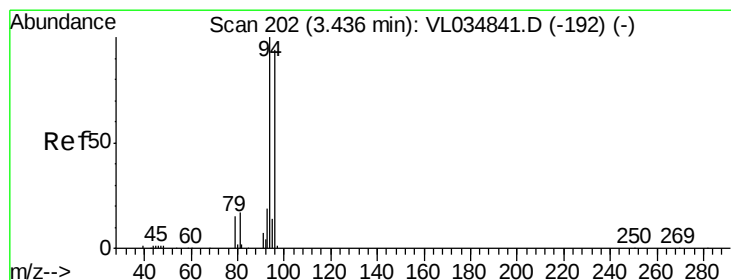
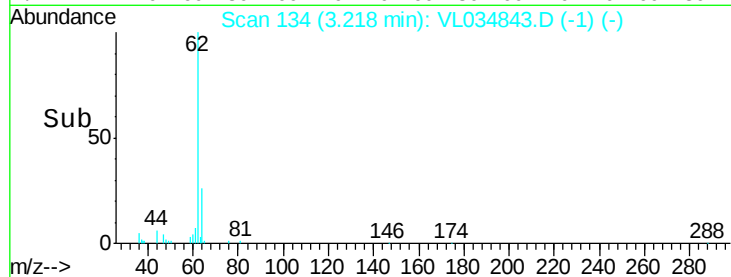
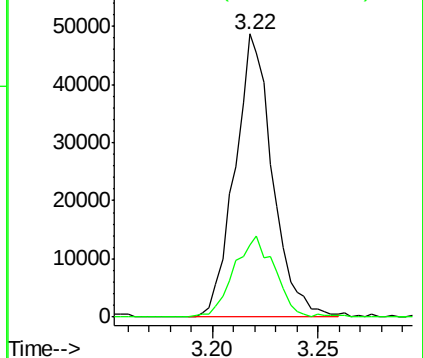
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 1.029 ppbv

RT: 3.44 min Scan# 203

Delta R.T. 0.00 min

Lab File: VL034843.D

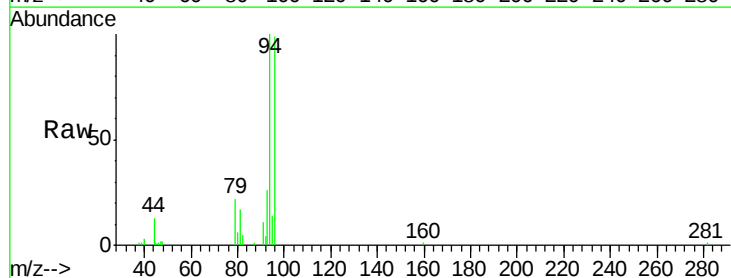
Acq: 9 Mar 2020 13:36

Tgt Ion: 94 Resp: 34076

Ion Ratio Lower Upper

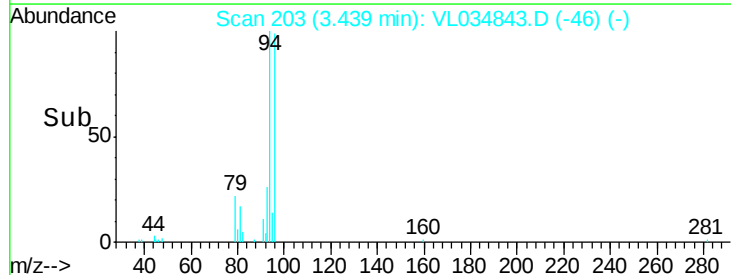
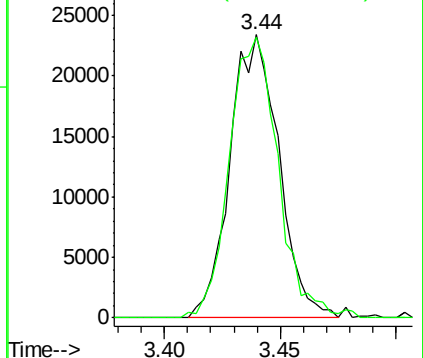
94 100

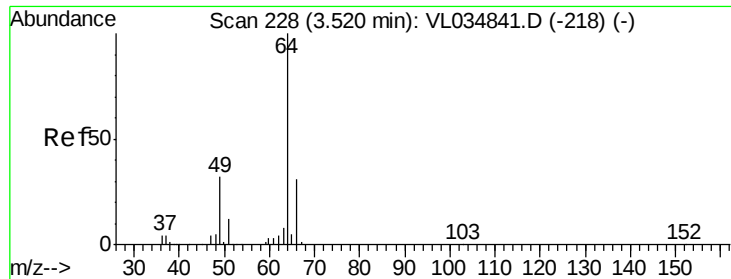
96 97.3 75.5 113.3



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 1.027 ppbv

RT: 3.52 min Scan# 228

Delta R.T. 0.00 min

Lab File: VL034843.D

Acq: 9 Mar 2020 13:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 64 Resp: 21550

Ion Ratio Lower Upper

64 100

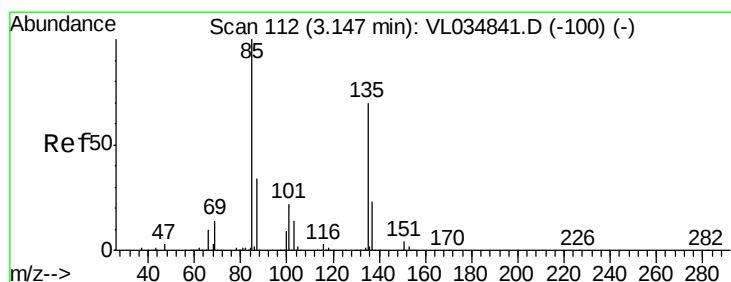
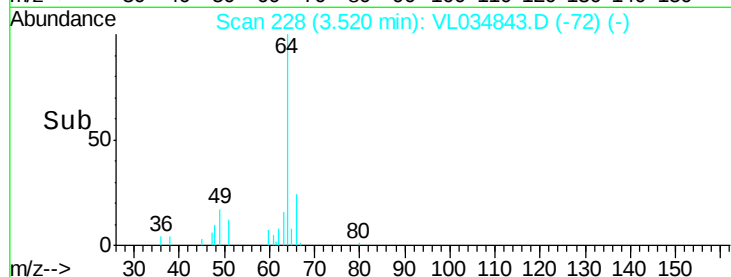
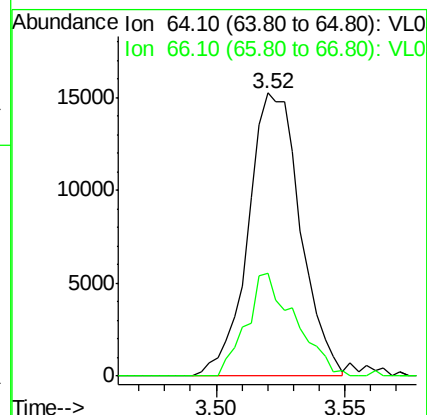
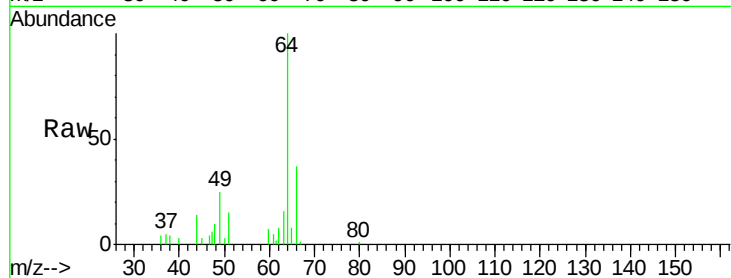
66 36.6 24.8 37.2

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#8

Dichlorotetrafluoroethane

Concen: 1.093 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.00 min

Lab File: VL034843.D

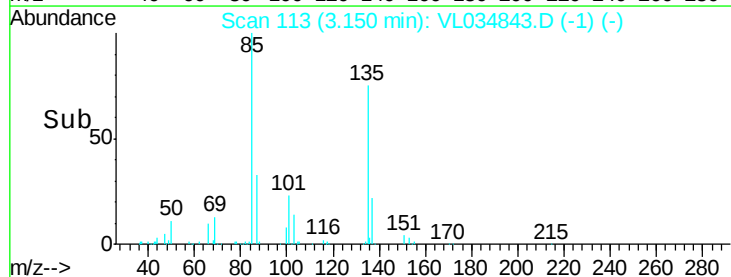
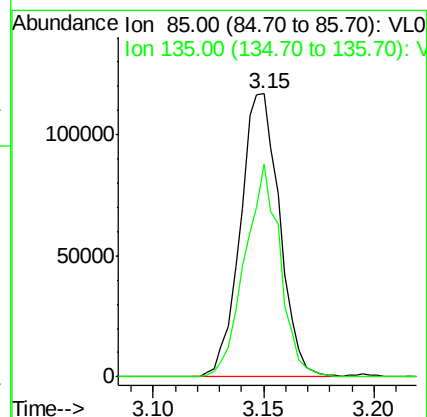
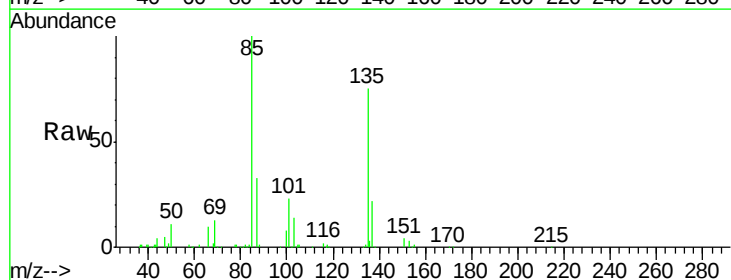
Acq: 9 Mar 2020 13:36

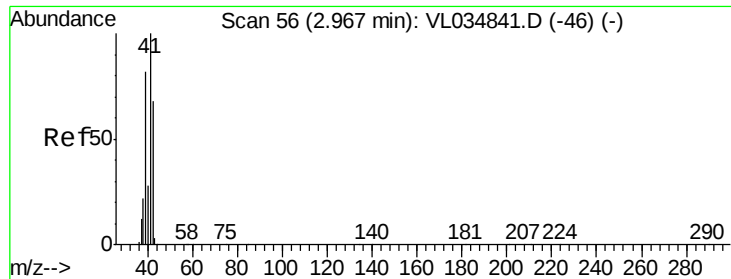
Tgt Ion: 85 Resp: 145062

Ion Ratio Lower Upper

85 100

135 67.5 54.3 81.5





#9

Propene

Concen: 1.194 ppbv

RT: 2.97 min Scan# 57

Delta R.T. 0.00 min

Lab File: VL034843.D

Acq: 9 Mar 2020 13:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 41 Resp: 50111

Ion Ratio Lower Upper

41 100

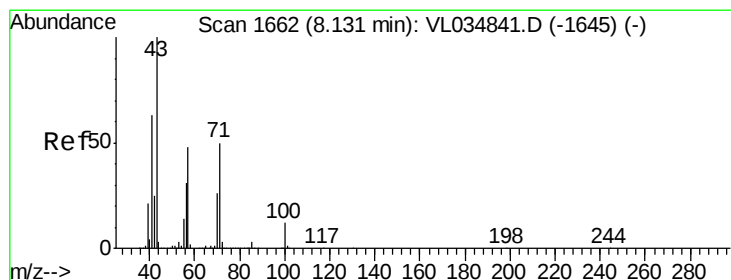
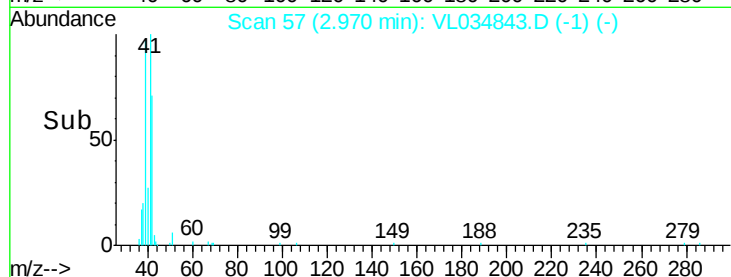
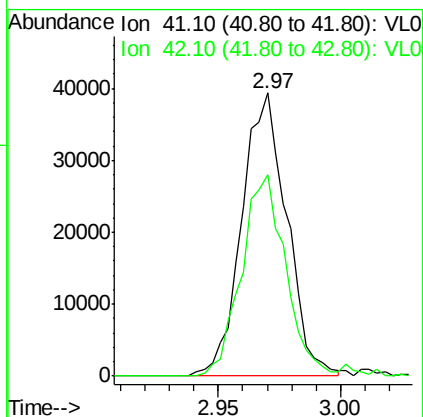
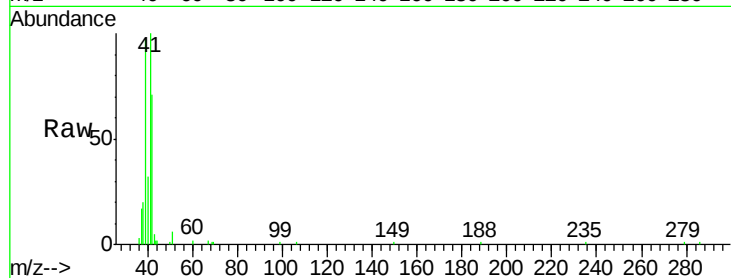
42 71.5 55.2 82.8

Manual Integrations

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#10

Heptane

Concen: 1.199 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VL034843.D

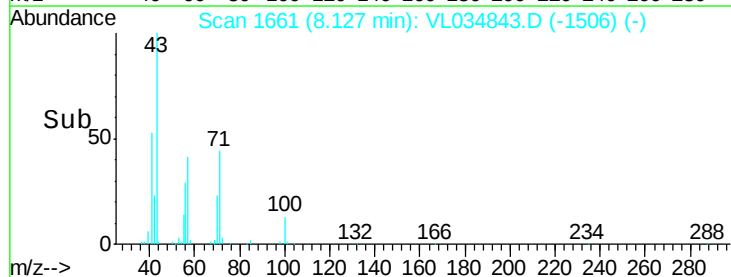
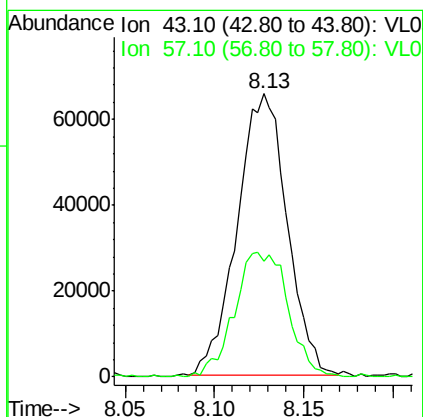
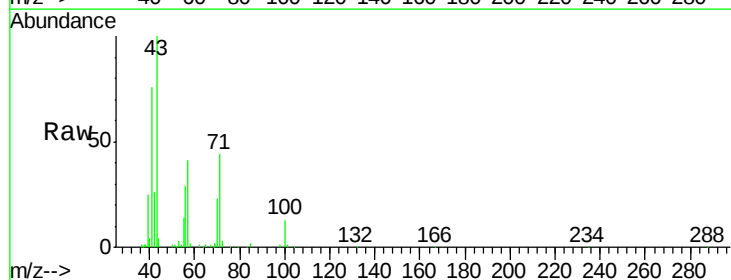
Acq: 9 Mar 2020 13:36

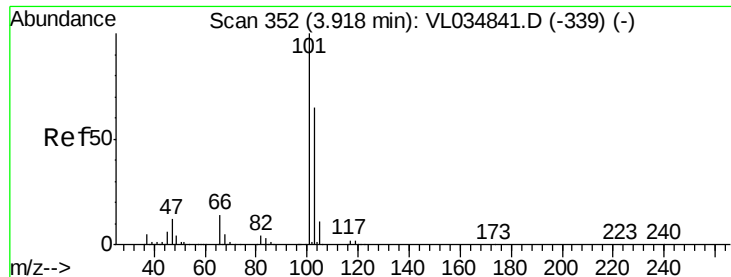
Tgt Ion: 43 Resp: 127869

Ion Ratio Lower Upper

43 100

57 47.9 39.7 59.5





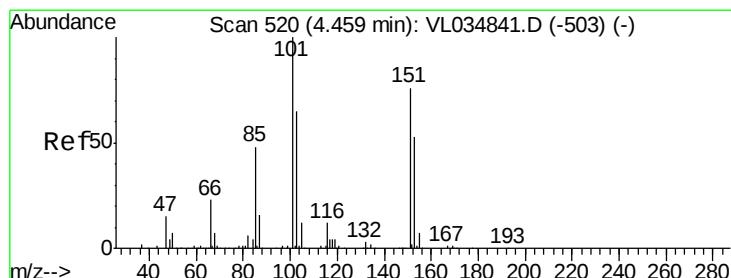
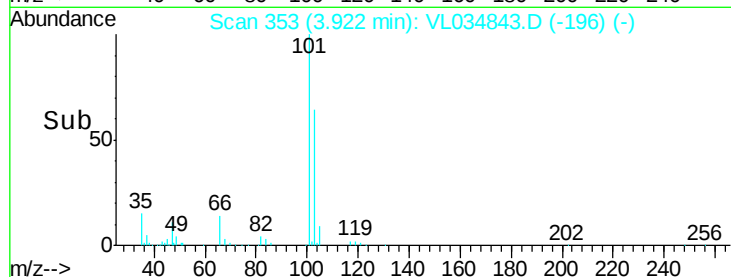
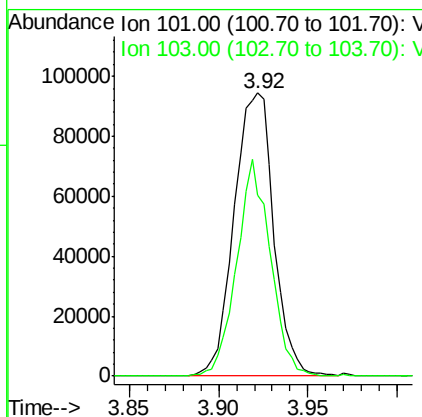
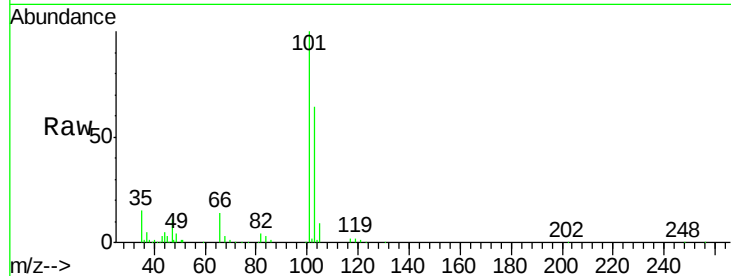
#11
 Trichlorofluoromethane
 Concen: 1.070 ppbv
 RT: 3.92 min Scan# 353
 Delta R.T. 0.00 min
 Lab File: VL034843.D
 Acq: 9 Mar 2020 13:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.8	51.8	77.8

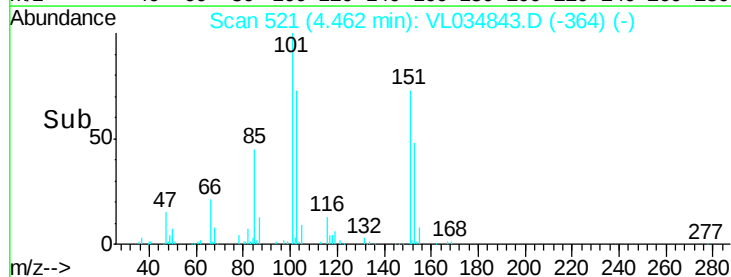
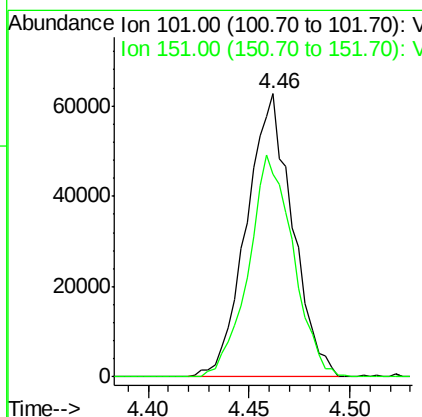
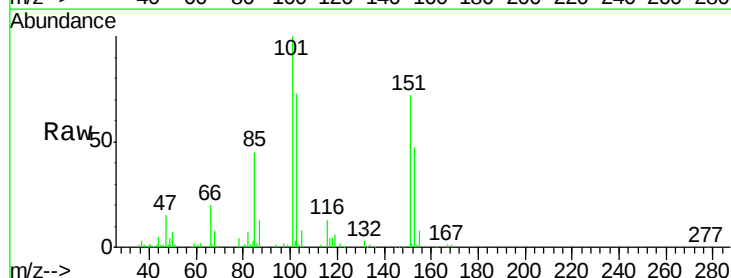
Manual Integrations
 APPROVED

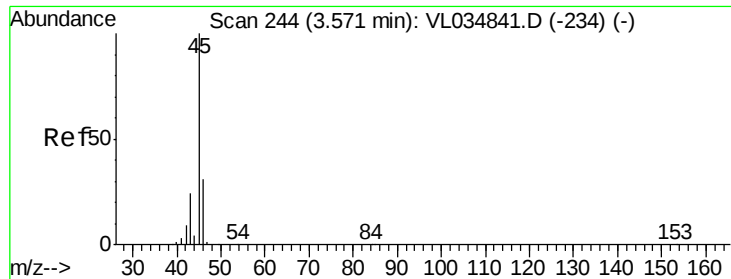
MMDadoda
 3/11/2020 3:25:59 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.061 ppbv
 RT: 4.46 min Scan# 521
 Delta R.T. 0.00 min
 Lab File: VL034843.D
 Acq: 9 Mar 2020 13:36

Tgt Ion	Ratio	Lower	Upper
101	100		
151	76.0	60.8	91.2





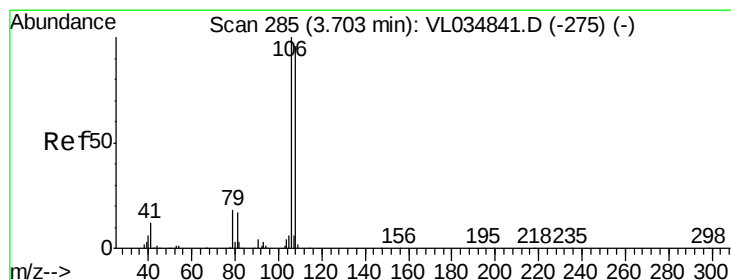
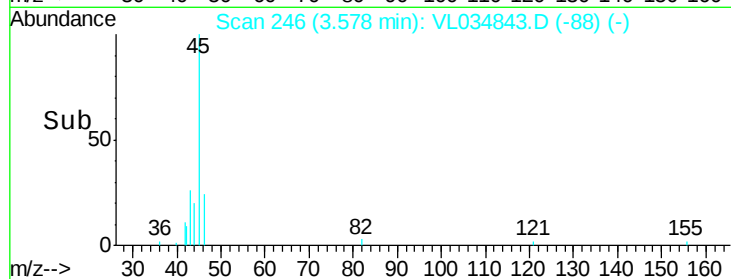
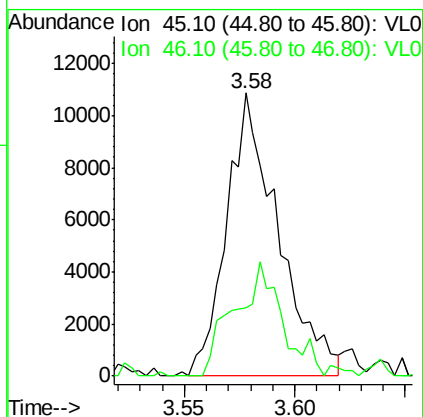
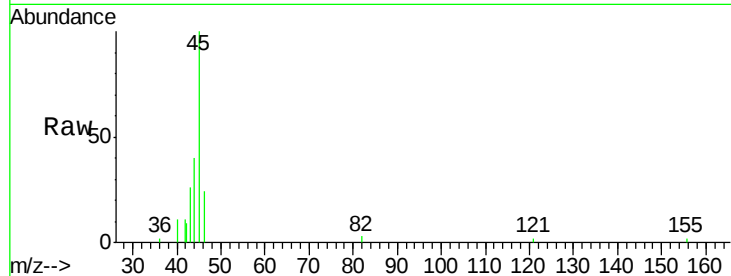
#13
Ethanol
Concen: 1.223 ppbv
RT: 3.58 min Scan# 246
Delta R.T. 0.01 min
Lab File: VL034843.D
Acq: 9 Mar 2020 13:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	45	46	Ratio	Lower	Upper
17596	100	38.8		16.0	64.0

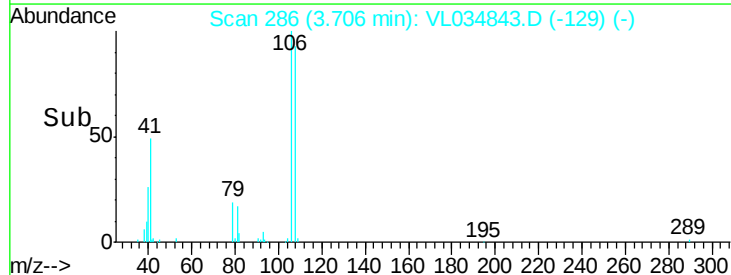
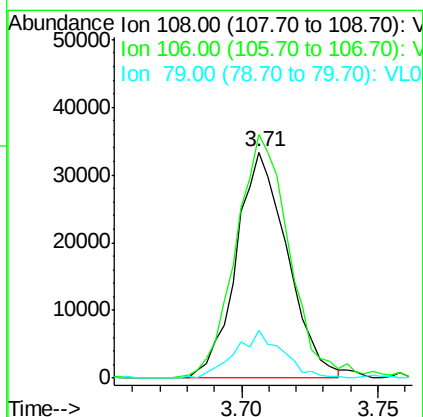
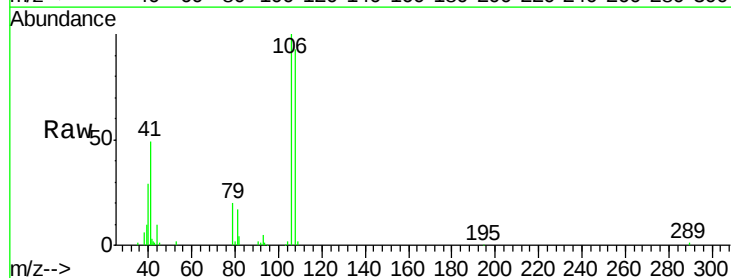
Manual Integrations
APPROVED

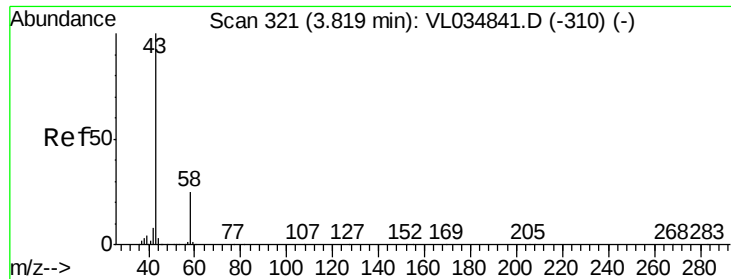
MMDadoda
3/11/2020 3:25:59 PM



#14
Bromoethene
Concen: 1.124 ppbv
RT: 3.71 min Scan# 286
Delta R.T. 0.00 min
Lab File: VL034843.D
Acq: 9 Mar 2020 13:36

Tgt Ion	108	106	79	Ratio	Lower	Upper
43496	100	114.3	20.0		85.1	127.7
					14.7	22.1





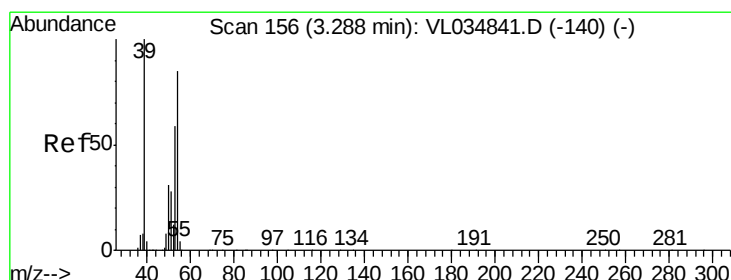
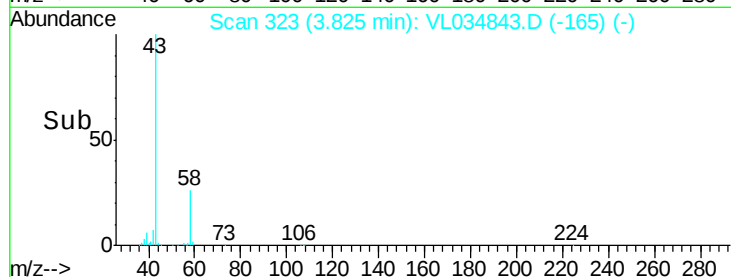
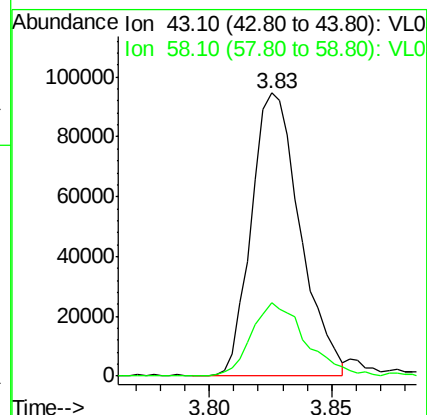
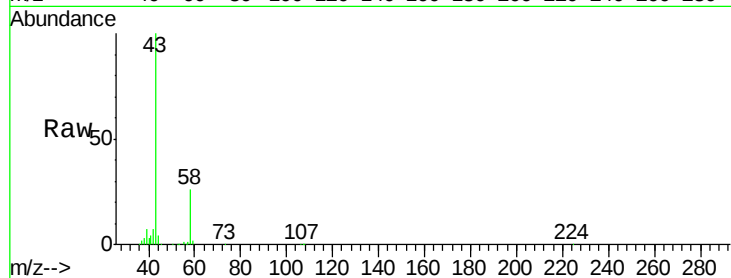
#15
Acetone
Concen: 1.168 ppbv
RT: 3.83 min Scan# 323
Delta R.T. 0.01 min
Lab File: VL034843.D
Acq: 9 Mar 2020 13:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 43 Resp: 130876
Ion Ratio Lower Upper
43 100
58 29.4 21.0 31.6

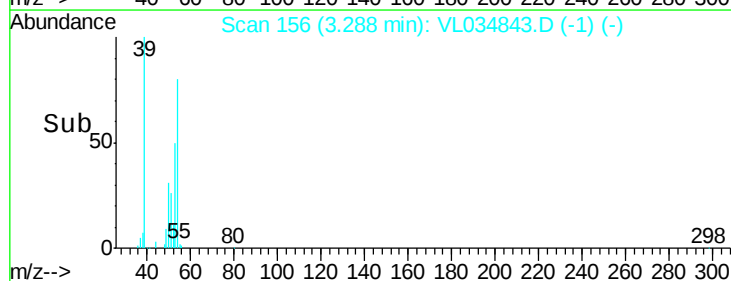
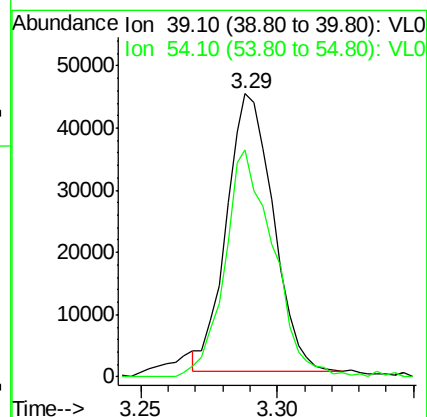
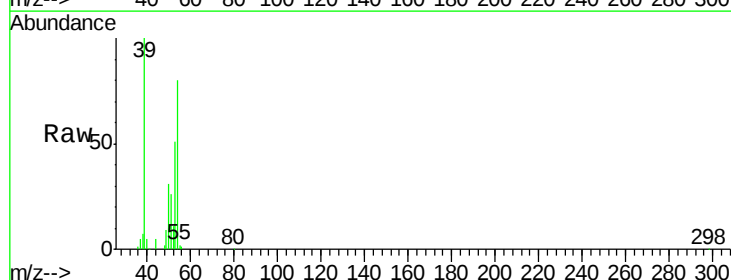
Manual Integrations
APPROVED

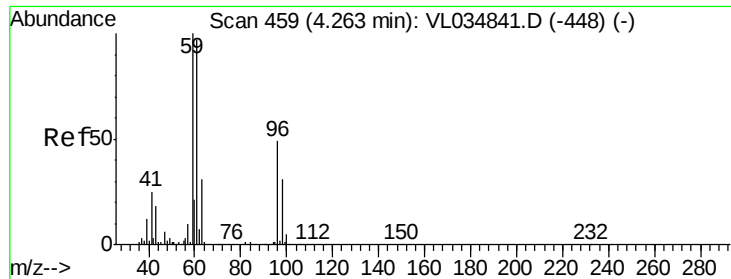
MMDadoda
3/11/2020 3:25:59 PM



#16
1,3-Butadiene
Concen: 1.050 ppbv
RT: 3.29 min Scan# 156
Delta R.T. 0.00 min
Lab File: VL034843.D
Acq: 9 Mar 2020 13:36

Tgt Ion: 39 Resp: 53262
Ion Ratio Lower Upper
39 100
54 85.5 65.0 97.6





#17

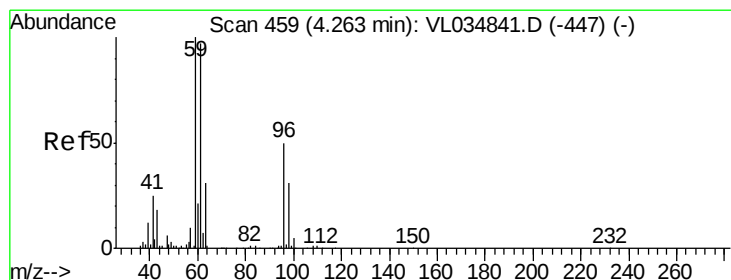
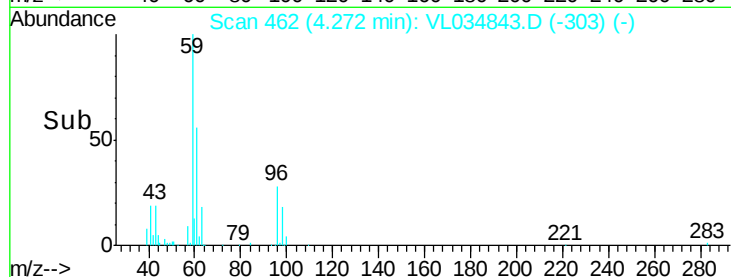
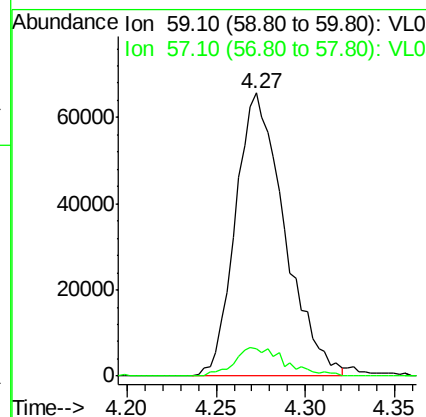
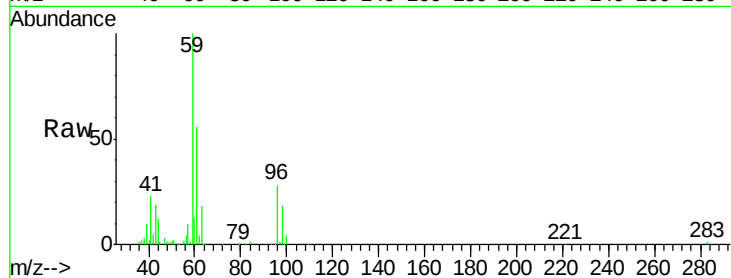
tert-Butyl alcohol
 Concen: 1.424 ppbv
 RT: 4.27 min Scan# 462
 Delta R.T. 0.01 min
 Lab File: VL034843.D
 Acq: 9 Mar 2020 13:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	59	Resp	125890
Ion Ratio	59	100	
Lower	57	10.6	8.3
Upper			12.5

Manual Integrations
 APPROVED

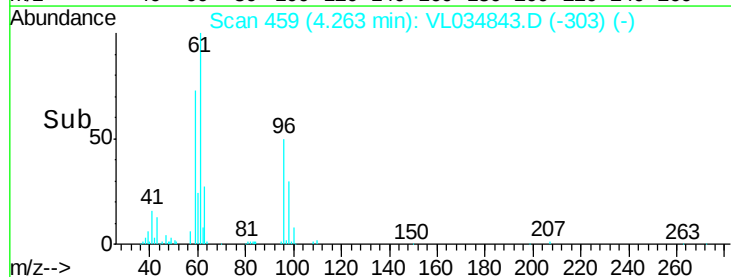
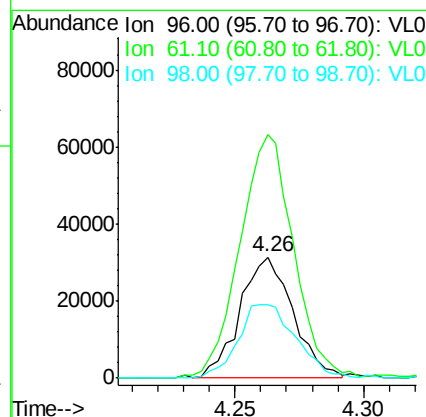
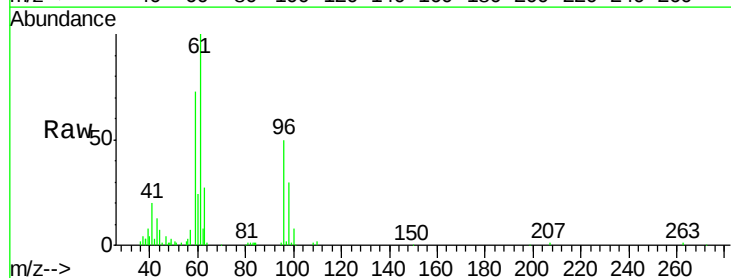
MMDadoda
 3/11/2020 3:25:59 PM

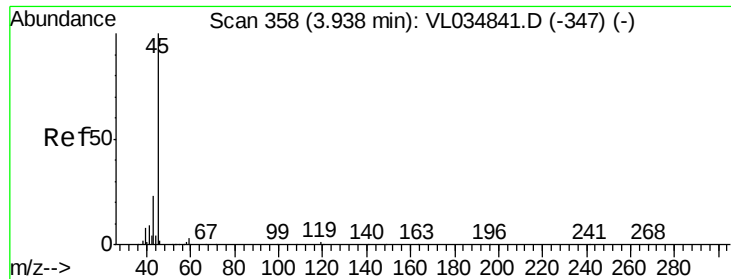


#18

1,1-Dichloroethene
 Concen: 1.071 ppbv
 RT: 4.26 min Scan# 459
 Delta R.T. 0.00 min
 Lab File: VL034843.D
 Acq: 9 Mar 2020 13:36

Tgt Ion	96	Resp	44538
Ion Ratio	96	100	
Lower	61	199.4	157.3
Upper	98	60.6	50.2
			75.4





#19

Isopropyl Alcohol

Concen: 1.215 ppbv

RT: 3.94 min Scan# 359

Delta R.T. 0.00 min

Lab File: VL034843.D

Acq: 9 Mar 2020 13:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 45 Resp: 81619

Ion Ratio Lower Upper

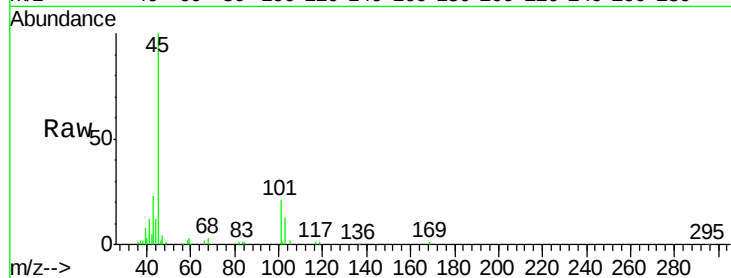
45 100

58 1.6 30.5 45.7#

Manual Integrations
APPROVED

MMDadoda

3/11/2020 3:25:59 PM

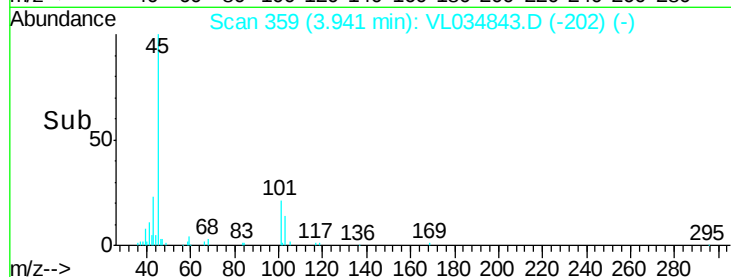


Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.94

Time-->



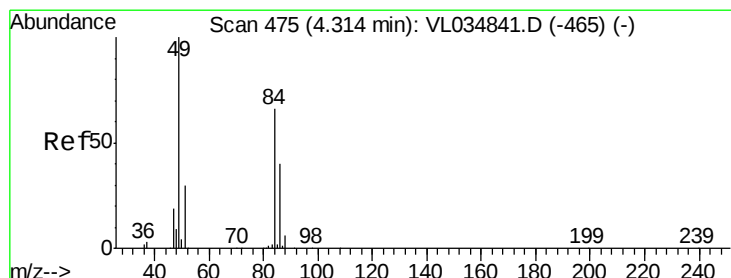
Abundance

Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.94

Time-->



#20

Methylene Chloride

Concen: 1.034 ppbv

RT: 4.32 min Scan# 476

Delta R.T. 0.00 min

Lab File: VL034843.D

Acq: 9 Mar 2020 13:36

Tgt Ion: 84 Resp: 41369

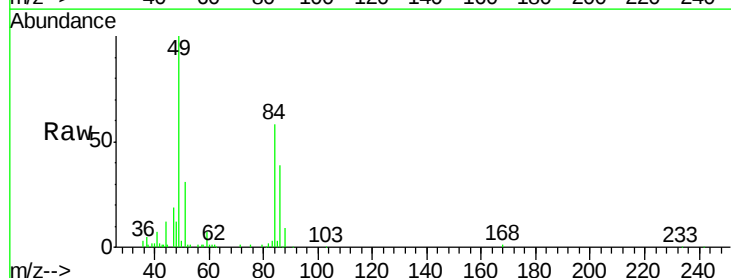
Ion Ratio Lower Upper

84 100

49 171.5 121.5 182.3

51 52.2 36.6 55.0

86 66.4 48.2 72.2



Abundance Ion 84.00 (83.70 to 84.70): VL0

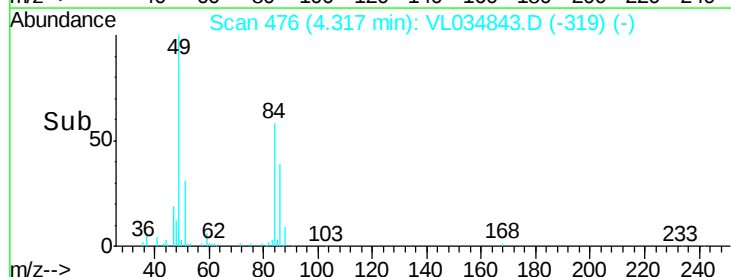
Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

4.32

Time-->



Abundance

Ion 84.00 (83.70 to 84.70): VL0

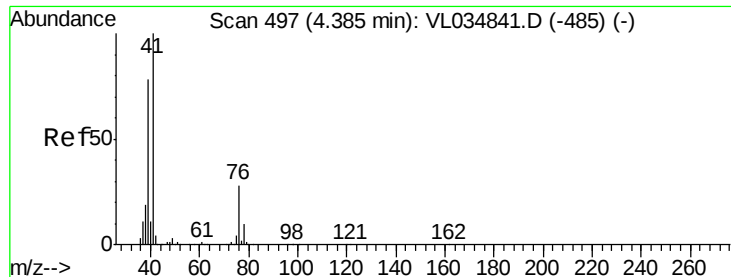
Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

4.32

Time-->



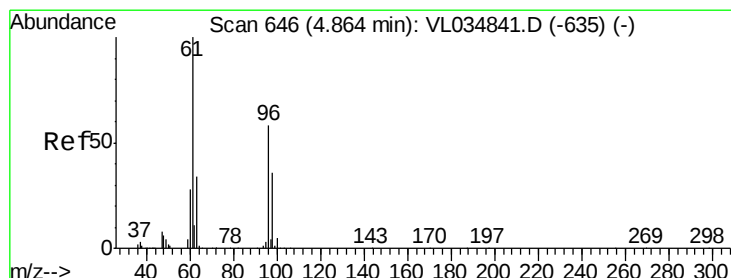
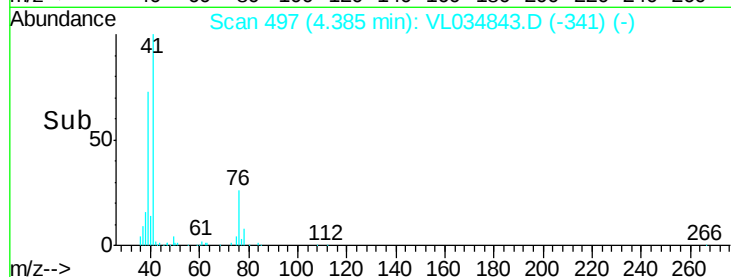
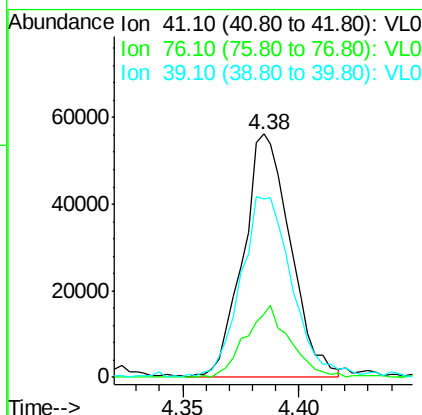
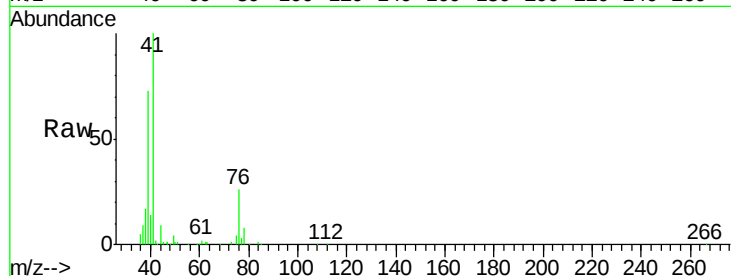
#21
Allvl Chloride
Concen: 1.119 ppbv
RT: 4.38 min Scan# 497
Delta R.T. 0.00 min
Lab File: VL034843.D
Acq: 9 Mar 2020 13:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.1	22.2	33.2
39	82.8	62.6	93.8

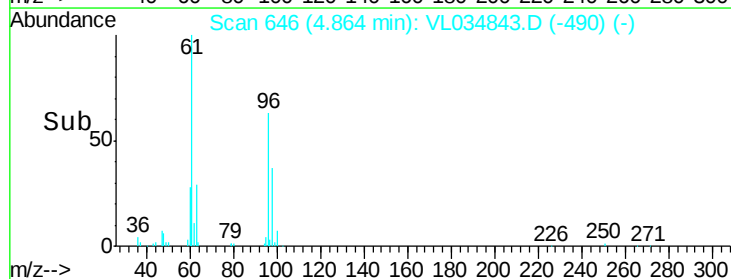
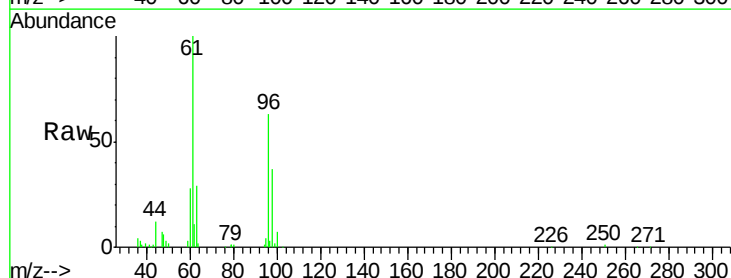
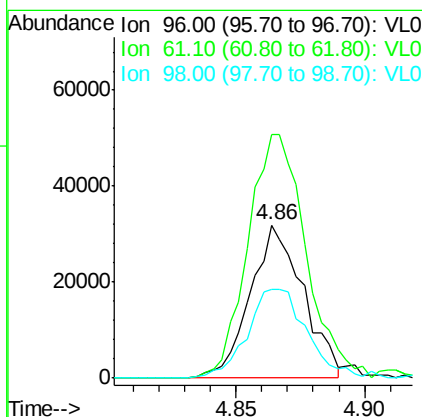
Manual Integrations
APPROVED

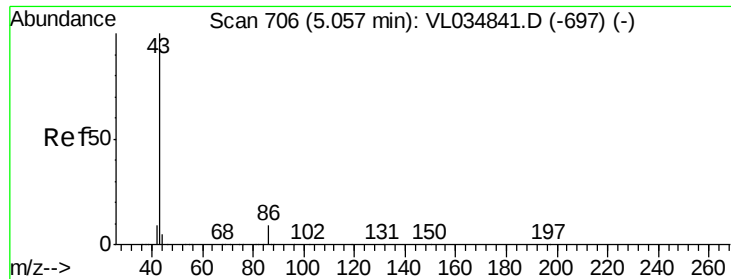
MMDadoda
3/11/2020 3:25:59 PM



#22
trans-1,2-Dichloroethene
Concen: 1.123 ppbv
RT: 4.86 min Scan# 646
Delta R.T. 0.00 min
Lab File: VL034843.D
Acq: 9 Mar 2020 13:36

Tgt Ion	Ratio	Lower	Upper
96	100		
61	158.3	139.0	208.6
98	58.0	50.3	75.5





#23

Vinyl Acetate

Concen: 1.235 ppbv

RT: 5.06 min Scan# 706

Delta R.T. 0.00 min

Lab File: VL034843.D

Acq: 9 Mar 2020 13:36

Instrument :

MSVOA_L

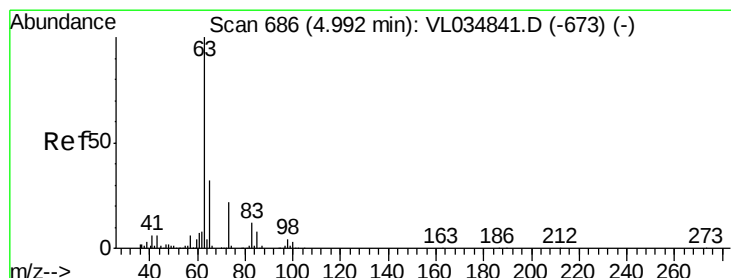
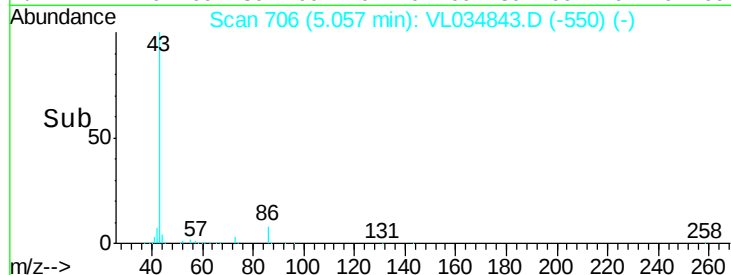
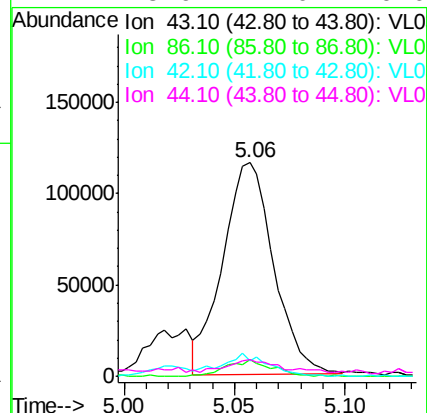
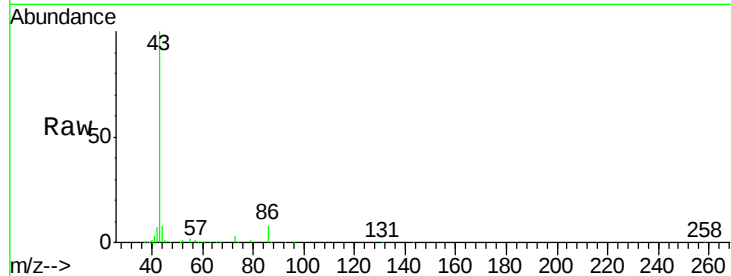
ClientSampleId :

VSTDIC001

Tot Ion:	43	Resp:	185593
Ion	Ratio	Lower	Upper
43	100		
86	8.0	6.3	9.5
42	6.6	7.8	11.8#
44	5.9	4.0	6.0

Manual Integrations
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3/11/2020 3:25:59 PM



#24

1,1-Dichloroethane

Concen: 1.089 ppbv

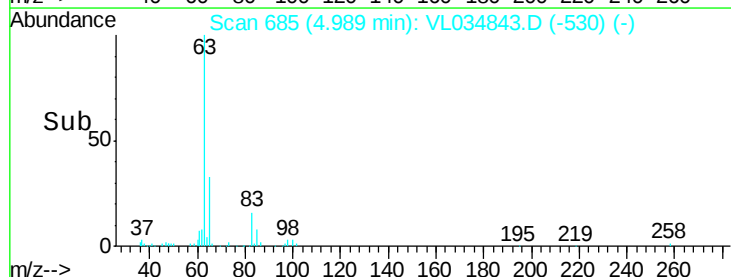
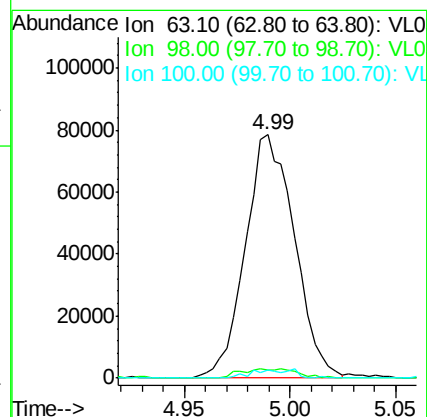
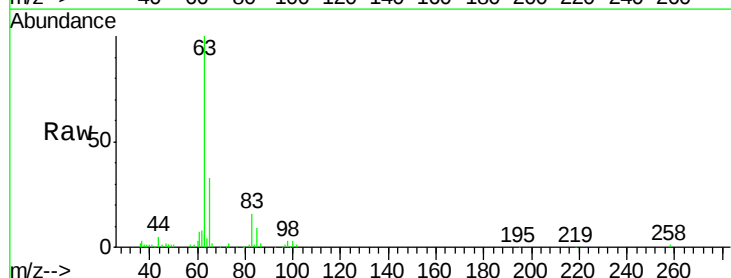
RT: 4.99 min Scan# 685

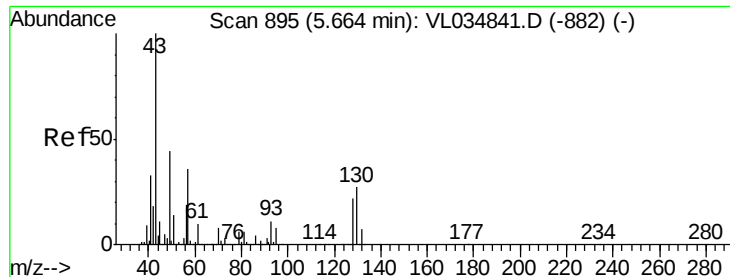
Delta R.T. -0.00 min

Lab File: VL034843.D

Acq: 9 Mar 2020 13:36

Tgt Ion:	63	Resp:	127044
Ion	Ratio	Lower	Upper
63	100		
98	3.3	2.0	5.8
100	3.1	1.4	4.0





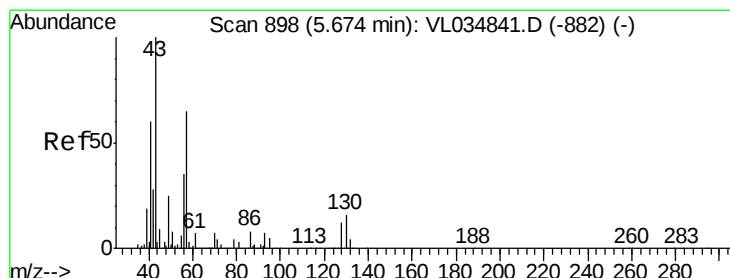
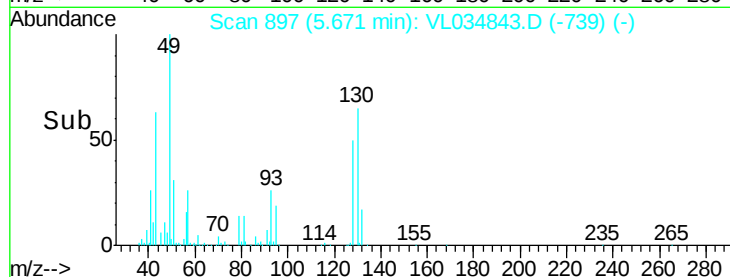
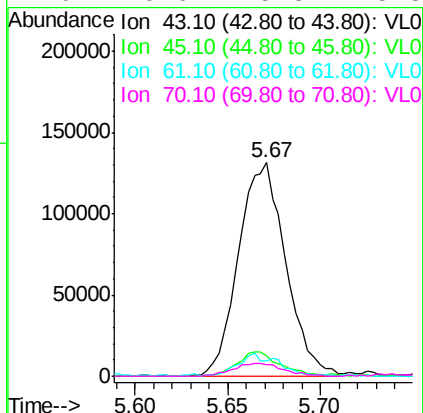
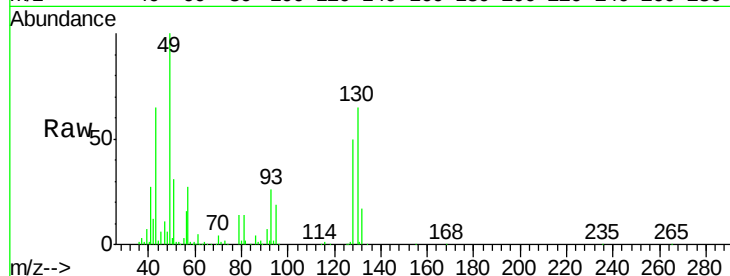
#25
Ethyl Acetate
Concen: 1.200 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.01 min
Lab File: VL034843.D
Acq: 9 Mar 2020 13:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100				
45	10.9	8.2	12.2		
61	9.6	7.8	11.6		
70	6.6	5.8	8.8		

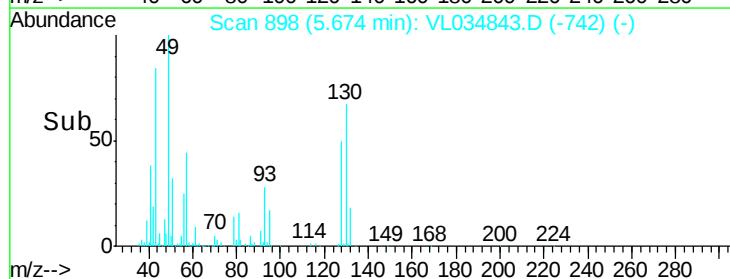
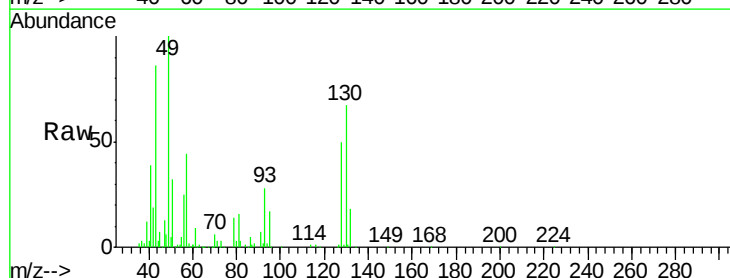
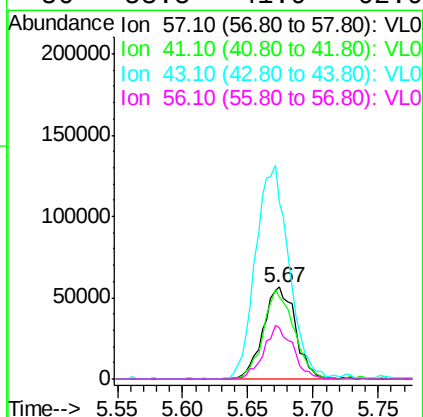
Manual Integrations
APPROVED

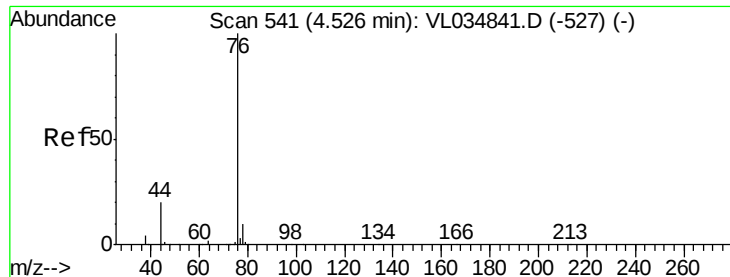
MMDadoda
3/11/2020 3:25:59 PM



#26
Hexane
Concen: 1.139 ppbv m
RT: 5.67 min Scan# 898
Delta R.T. 0.00 min
Lab File: VL034843.D
Acq: 9 Mar 2020 13:36

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	93.2	72.6	109.0		
43	244.9	183.8	275.6		
56	53.5	41.9	62.9		





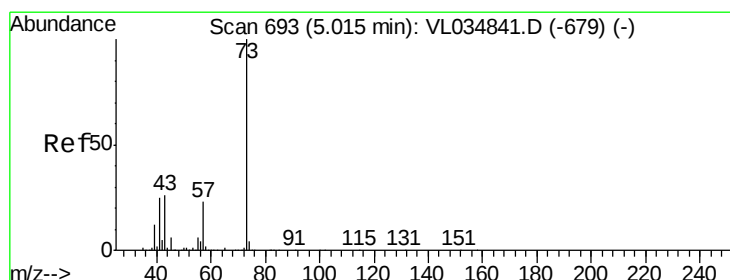
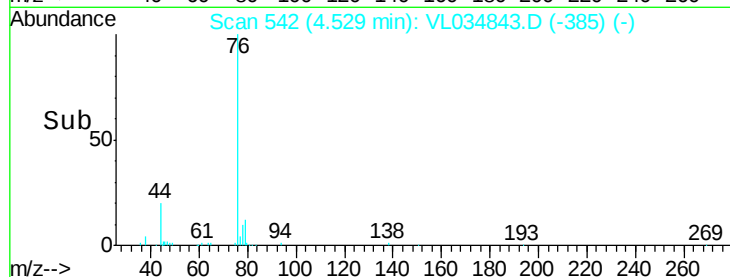
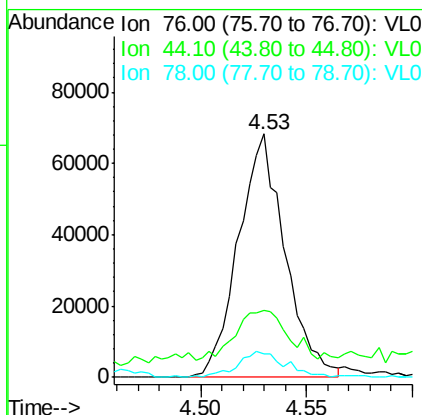
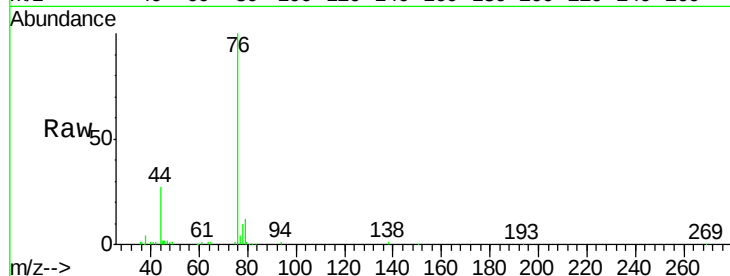
#27
Carbon Disulfide
Concen: 1.060 ppbv
RT: 4.53 min Scan# 542
Delta R.T. 0.00 min
Lab File: VL034843.D
Acq: 9 Mar 2020 13:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
76	100		
44	29.5	16.2	24.2#
78	11.3	7.8	11.6

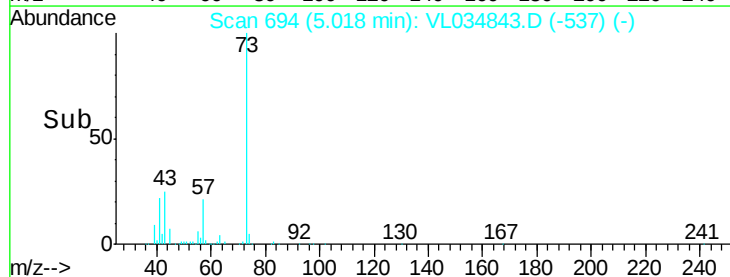
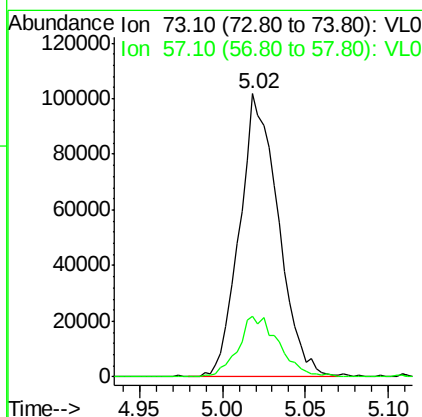
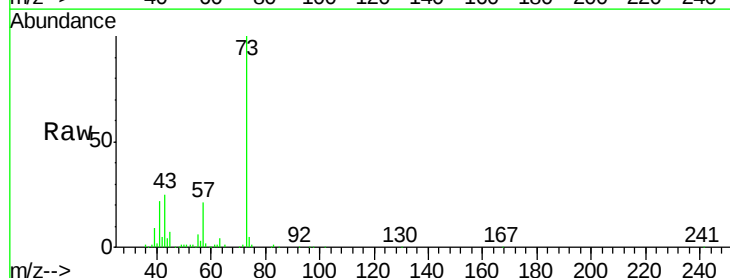
Manual Integrations
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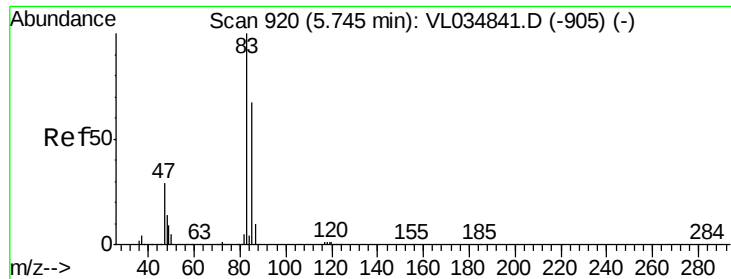
MMDadoda
3/11/2020 3:25:59 PM



#28
Methyl tert-Butyl Ether
Concen: 1.316 ppbv
RT: 5.02 min Scan# 694
Delta R.T. 0.00 min
Lab File: VL034843.D
Acq: 9 Mar 2020 13:36

Tgt Ion	Ratio	Lower	Upper
73	100		
57	22.5	18.3	27.5





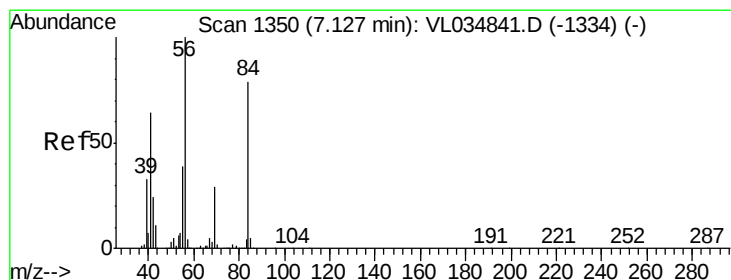
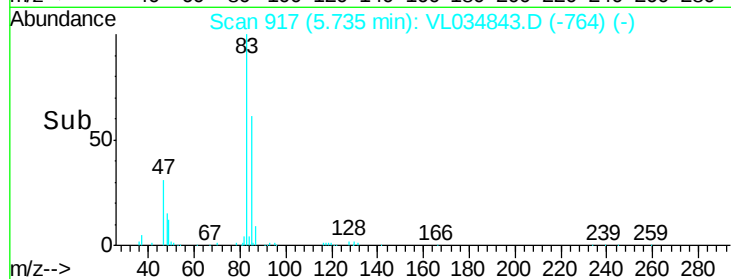
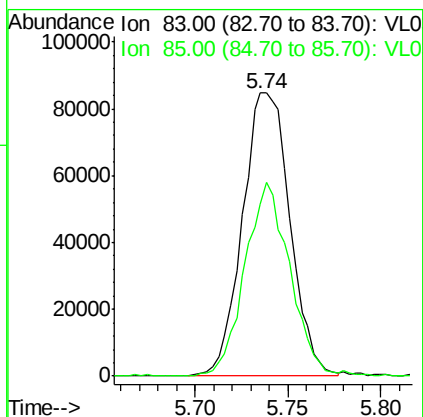
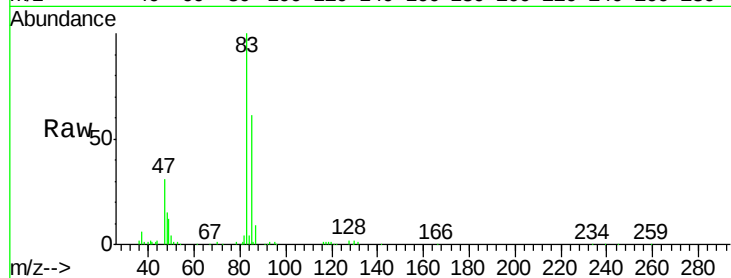
#29
Chloroform
Concen: 1.065 ppbv
RT: 5.74 min Scan# 917
Delta R.T. -0.01 min
Lab File: VL034843.D
Acq: 9 Mar 2020 13:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	83	Resp	151755
Ion Ratio	100	Lower	Upper
83	100		
85	60.9	53.8	80.6

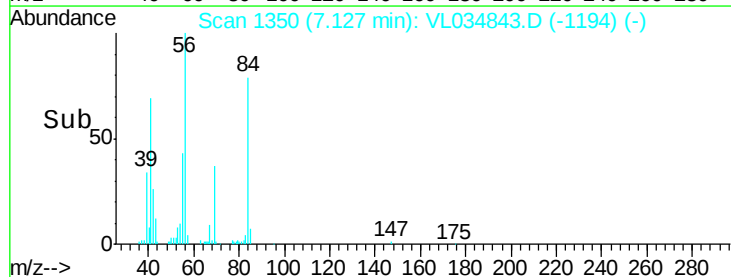
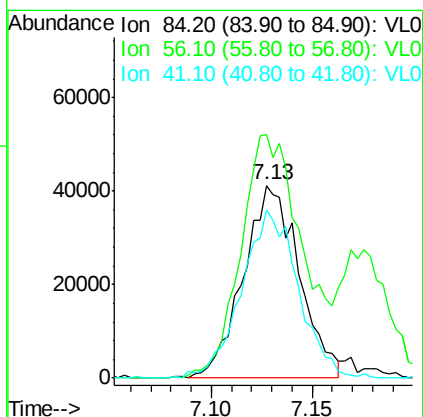
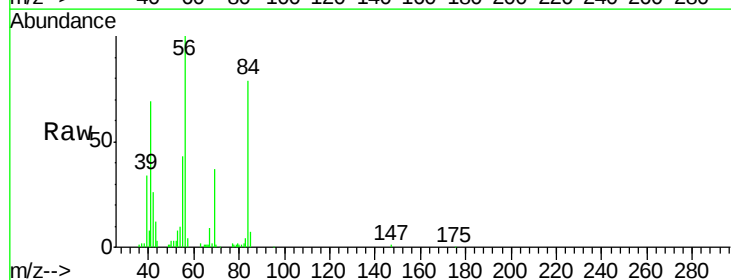
Manual Integrations
APPROVED

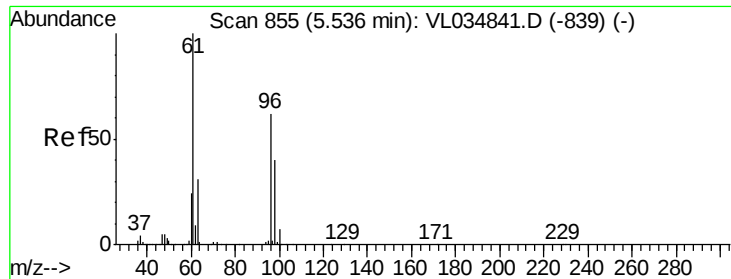
MMDadoda
3/11/2020 3:25:59 PM



#30
Cyclohexane
Concen: 1.229 ppbv
RT: 7.13 min Scan# 1350
Delta R.T. 0.00 min
Lab File: VL034843.D
Acq: 9 Mar 2020 13:36

Tgt Ion	84	Resp	79575
Ion Ratio	100	Lower	Upper
84	100		
56	144.1	110.5	165.7
41	88.5	68.2	102.4





#31

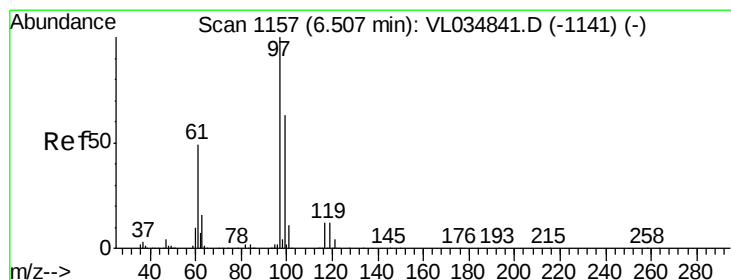
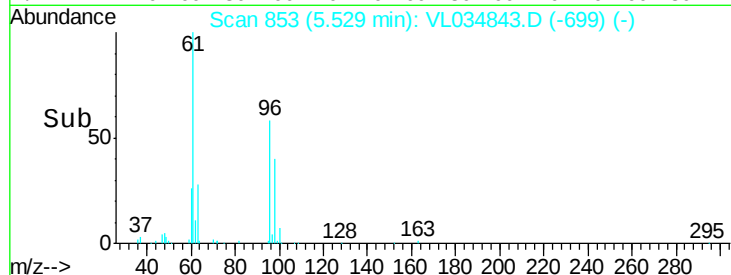
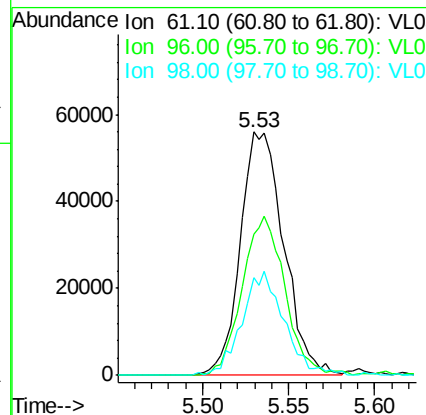
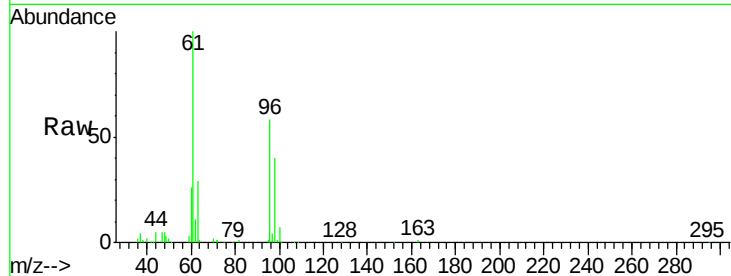
cis-1,2-Dichloroethene
 Concen: 1.131 ppbv
 RT: 5.53 min Scan# 853
 Delta R.T. -0.01 min
 Lab File: VL034843.D
 Acq: 9 Mar 2020 13:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
61	100		
96	57.9	49.8	74.8
98	40.0	32.2	48.4

Manual Integrations
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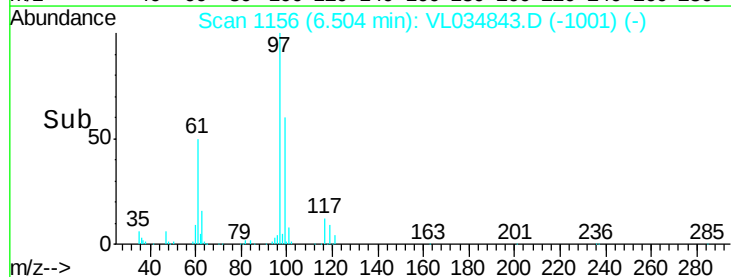
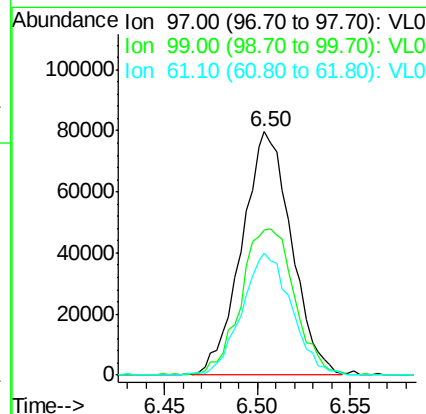
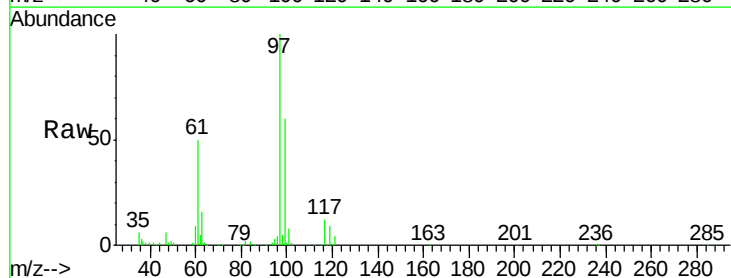
MMDadoda
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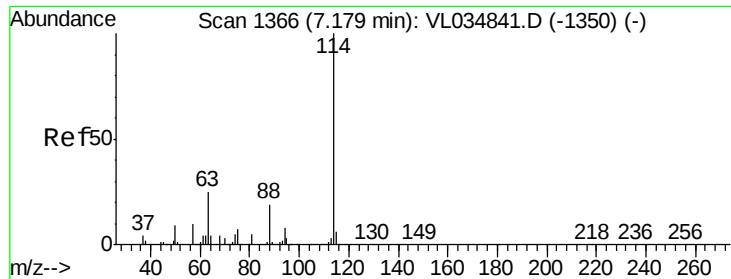


#32

1,1,1-Trichloroethane
 Concen: 1.039 ppbv
 RT: 6.50 min Scan# 1156
 Delta R.T. -0.00 min
 Lab File: VL034843.D
 Acq: 9 Mar 2020 13:36

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.5	51.1	76.7
61	50.9	39.7	59.5





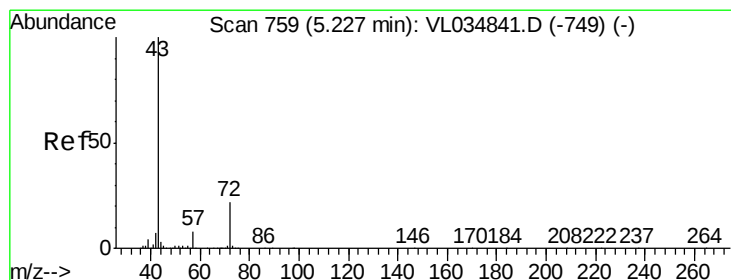
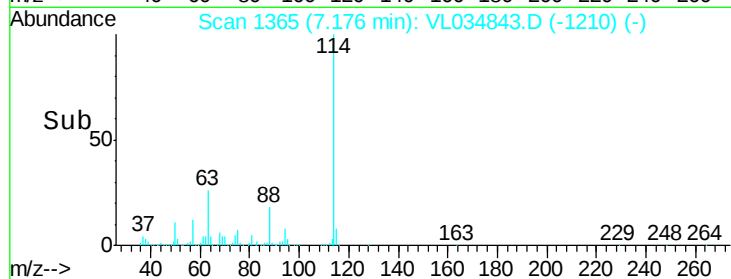
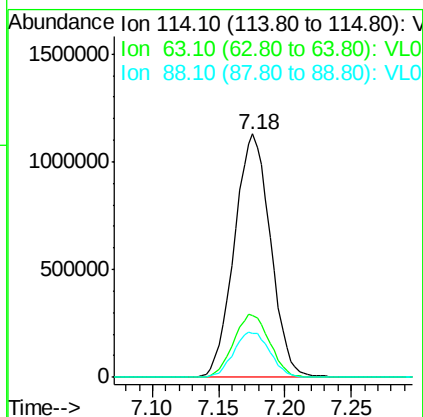
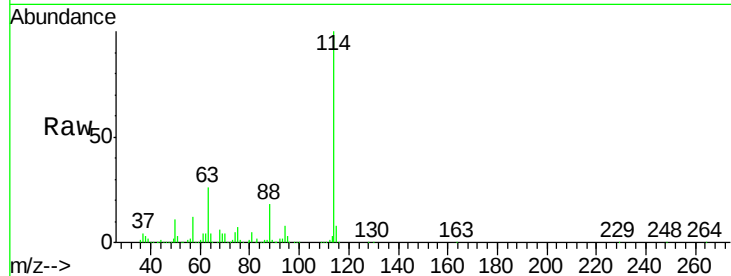
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.00 min
 Lab File: VL034843.D
 Acq: 9 Mar 2020 13:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.9	20.6	31.0
88	18.8	15.0	22.6

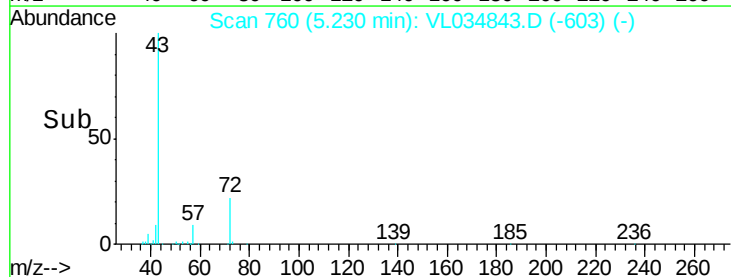
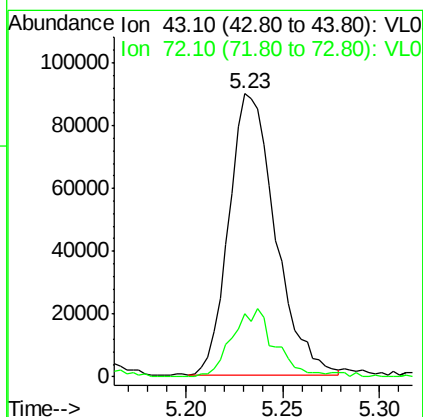
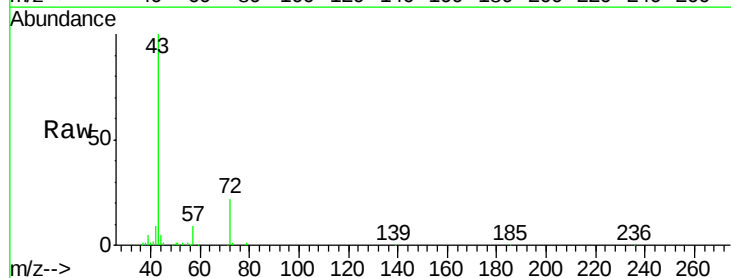
Manual Integrations
 APPROVED

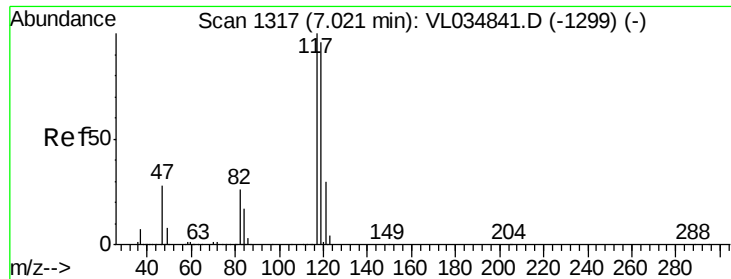
MMDadoda
 3/11/2020 3:25:59 PM



#34
 2-Butanone
 Concen: 1.080 ppbv
 RT: 5.23 min Scan# 760
 Delta R.T. 0.00 min
 Lab File: VL034843.D
 Acq: 9 Mar 2020 13:36

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.9	17.6	26.4





#35

Carbon Tetrachloride

Concen: 0.887 ppbv

RT: 7.02 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VL034843.D

Acq: 9 Mar 2020 13:36

Instrument :

MSVOA_L

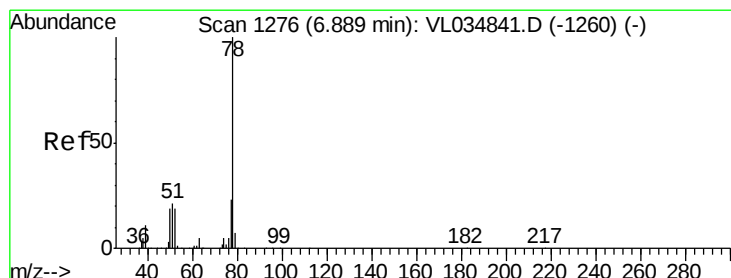
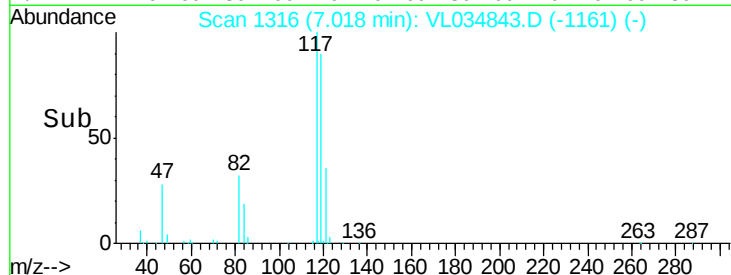
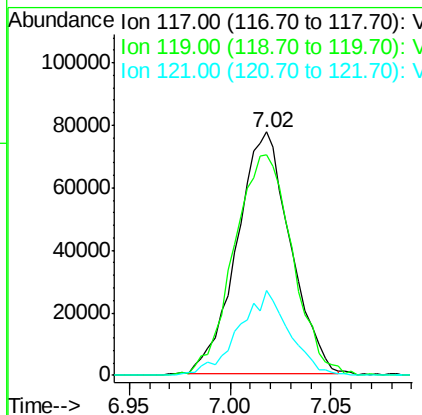
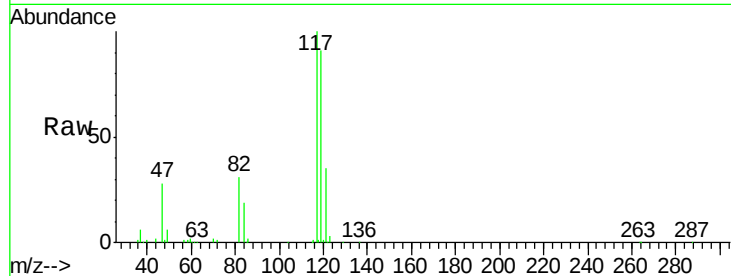
ClientSampleId :

VSTDIC001

Tot Ion:	117	Resp:	143314
Ion Ratio	Lower	Upper	
117	100		
119	89.9	77.0	115.4
121	34.0	24.0	36.0

Manual Integrations
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3/11/2020 3:25:59 PM



#36

Benzene

Concen: 1.103 ppbv

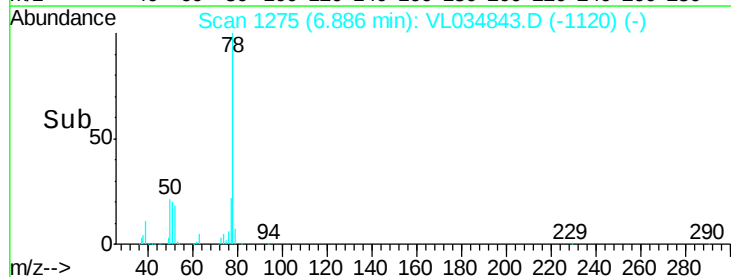
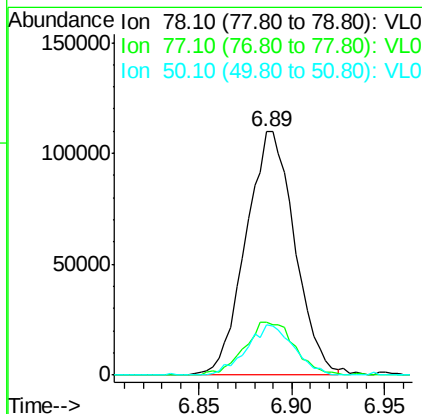
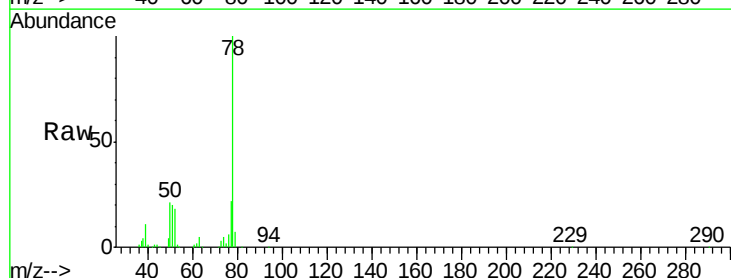
RT: 6.89 min Scan# 1275

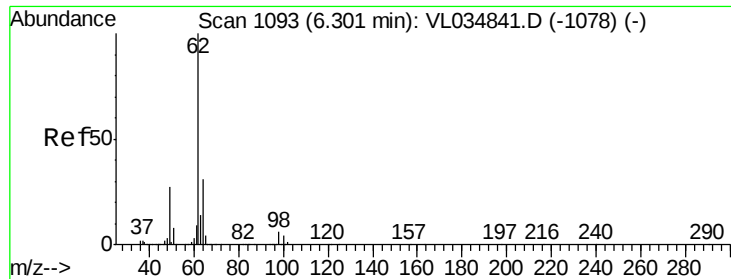
Delta R.T. -0.00 min

Lab File: VL034843.D

Acq: 9 Mar 2020 13:36

Tgt Ion:	78	Resp:	201939
Ion Ratio	Lower	Upper	
78	100		
77	21.5	18.2	27.2
50	20.7	15.2	22.8





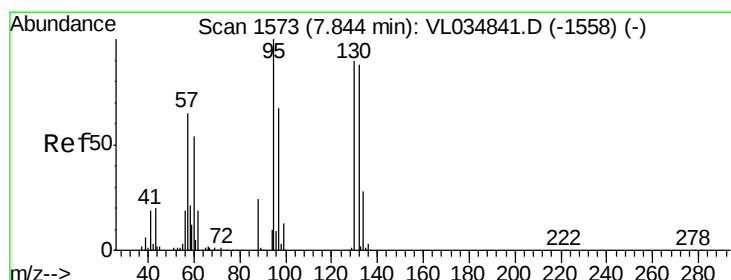
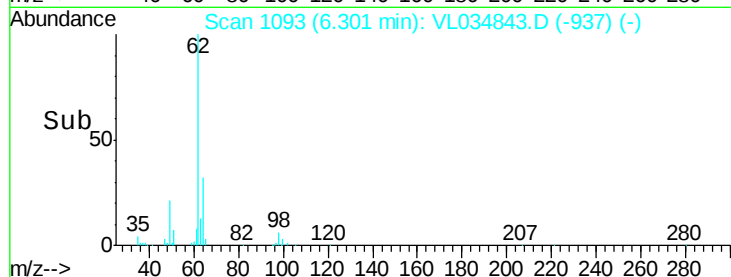
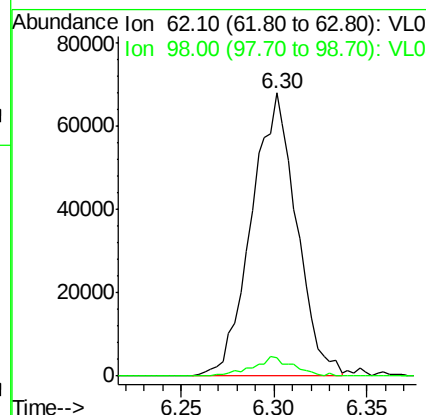
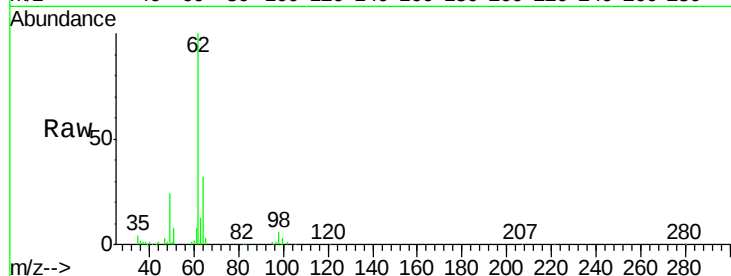
#37
 1,2-Dichloroethane
 Concen: 0.926 ppbv
 RT: 6.30 min Scan# 1093
 Delta R.T. 0.00 min
 Lab File: VL034843.D
 Acq: 9 Mar 2020 13:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
62	100	115728		
98	6.1	5.2	7.8	

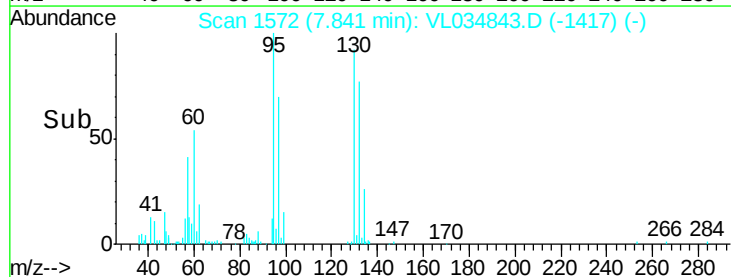
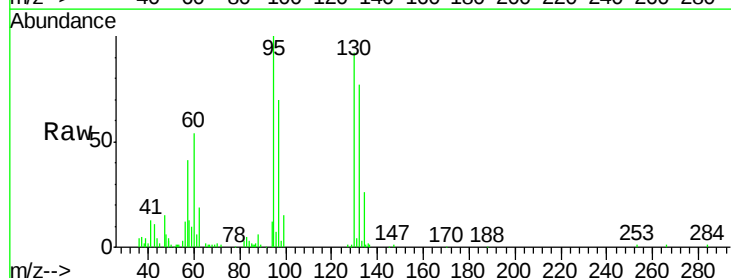
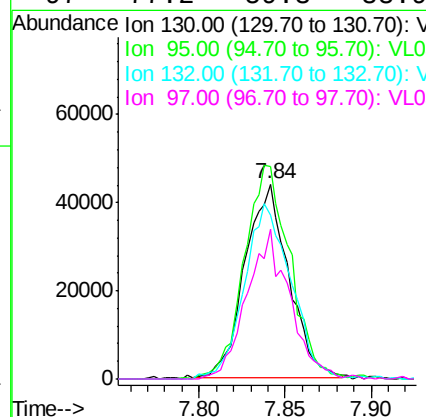
Manual Integrations
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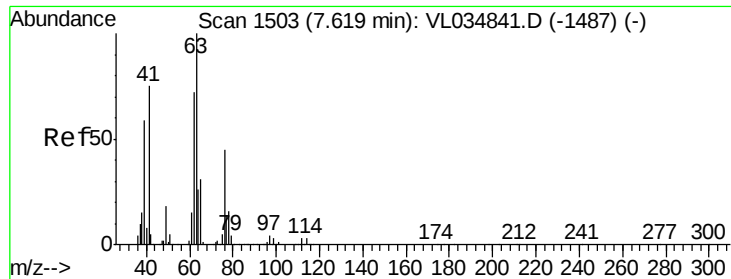
MMDadoda
 3/11/2020 3:25:59 PM



#38
 Trichloroethene
 Concen: 1.086 ppbv
 RT: 7.84 min Scan# 1572
 Delta R.T. -0.00 min
 Lab File: VL034843.D
 Acq: 9 Mar 2020 13:36

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	77441		
95	109.2	88.5	132.7	
132	84.9	78.0	117.0	
97	77.2	59.3	88.9	





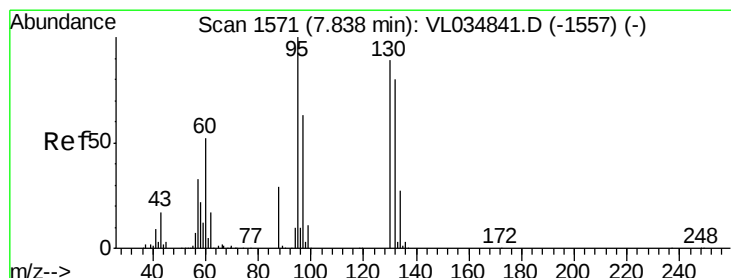
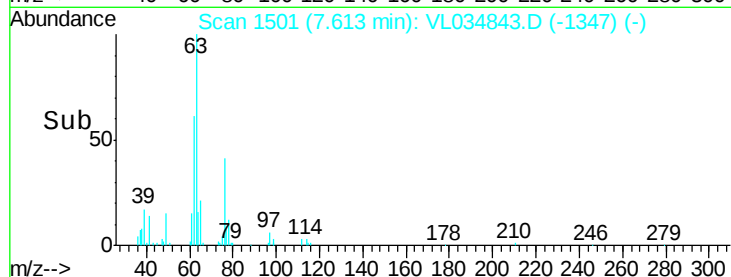
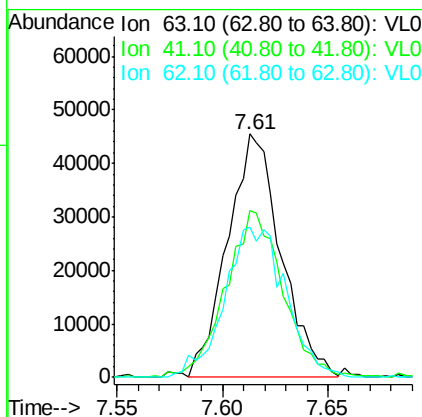
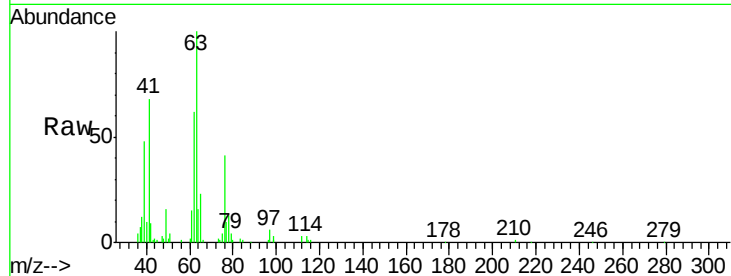
#39
 1,2-Dichloropropane
 Concen: 1.085 ppbv
 RT: 7.61 min Scan# 1501
 Delta R.T. -0.01 min
 Lab File: VL034843.D
 Acq: 9 Mar 2020 13:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
63	100		
41	67.2	59.8	89.8
62	59.7	57.6	86.4

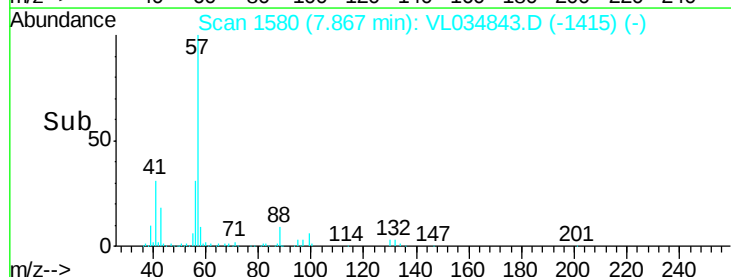
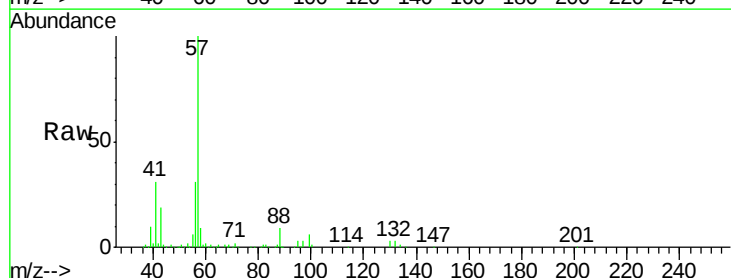
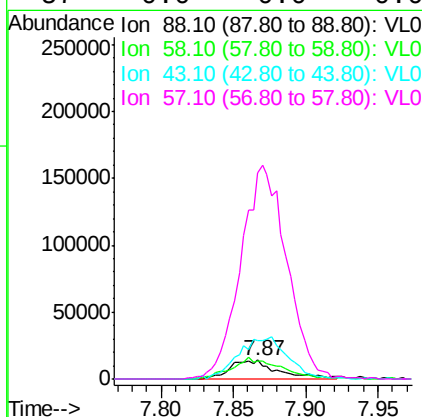
Manual Integrations
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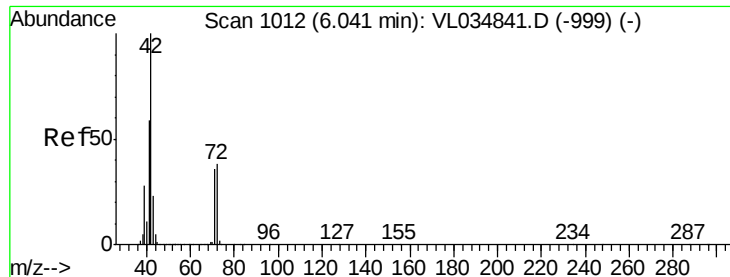
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#40
 1,4-Dioxane
 Concen: 1.257 ppbv m
 RT: 7.87 min Scan# 1580
 Delta R.T. 0.03 min
 Lab File: VL034843.D
 Acq: 9 Mar 2020 13:36

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	103.9	155.9#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





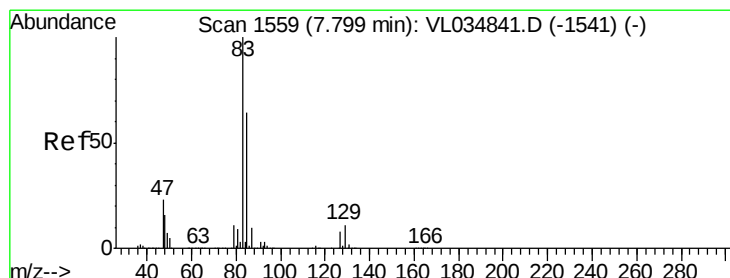
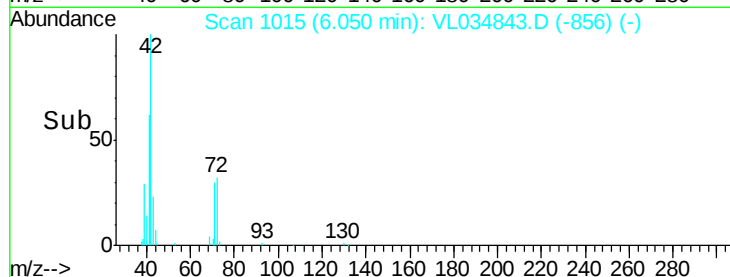
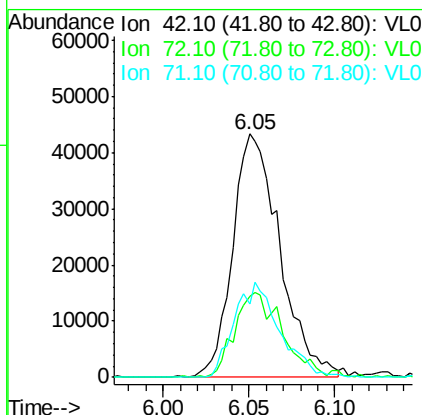
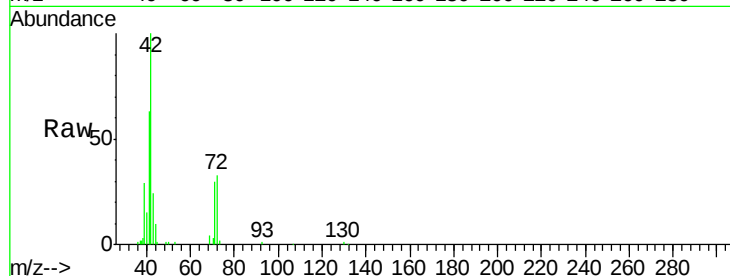
#41
Tetrahydrofuran
Concen: 1.159 ppbv
RT: 6.05 min Scan# 1015
Delta R.T. 0.01 min
Lab File: VL034843.D
Acq: 9 Mar 2020 13:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.5	30.8	46.2
71	37.5	30.1	45.1

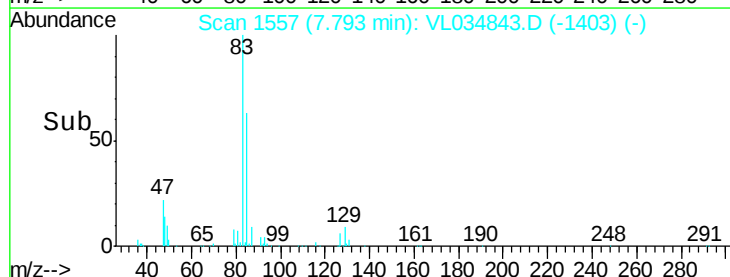
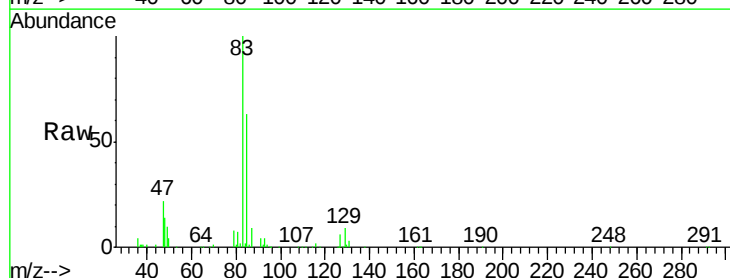
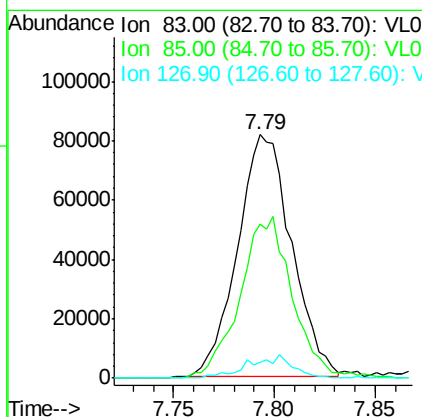
Manual Integrations
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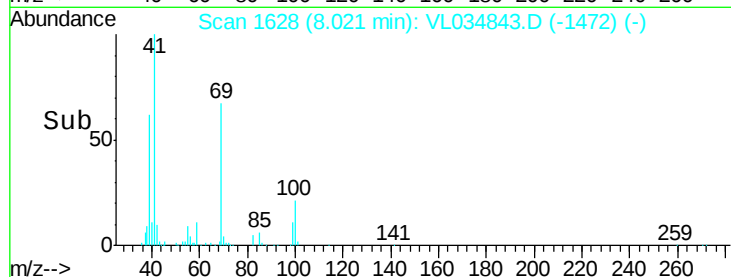
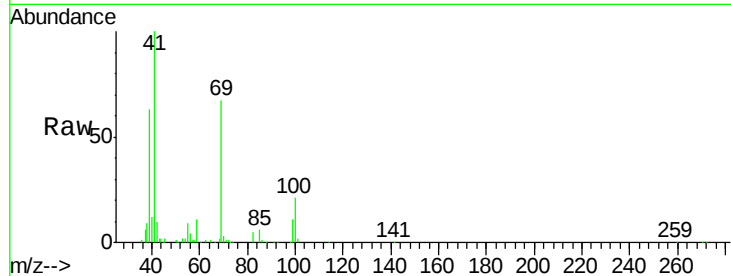
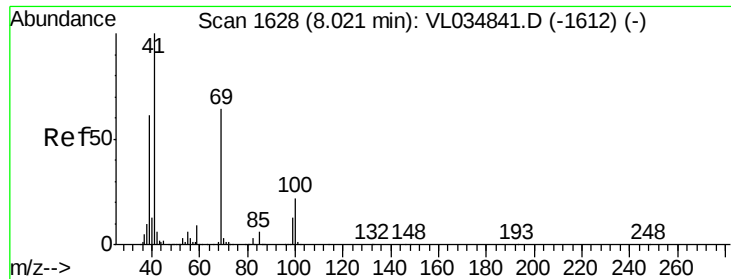
MMDadoda
3/11/2020 3:25:59 PM



#42
Bromodichloromethane
Concen: 0.965 ppbv
RT: 7.79 min Scan# 1557
Delta R.T. -0.01 min
Lab File: VL034843.D
Acq: 9 Mar 2020 13:36

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.7	51.4	77.2
127	6.4	6.2	9.4





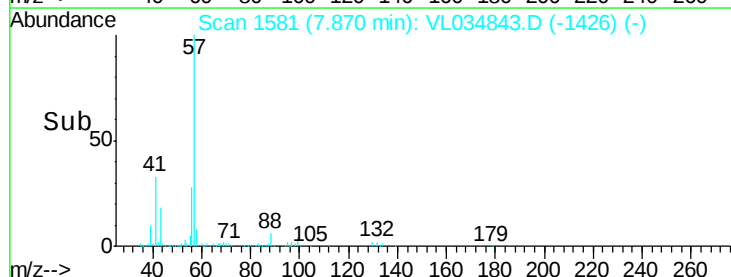
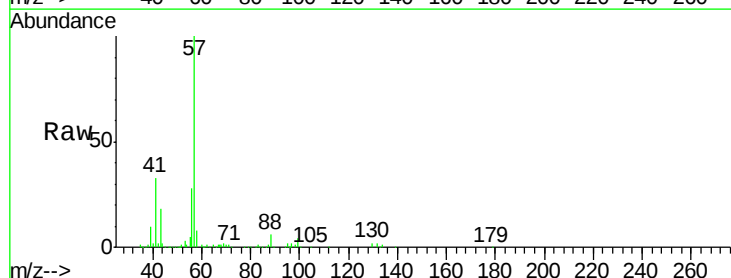
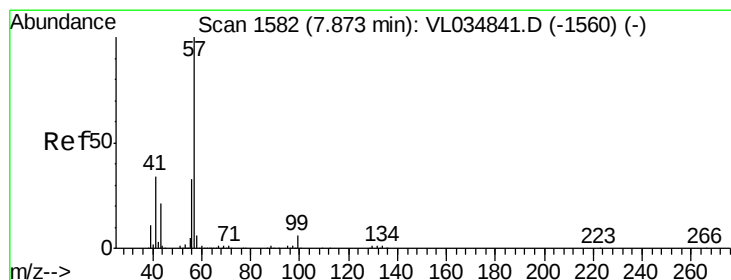
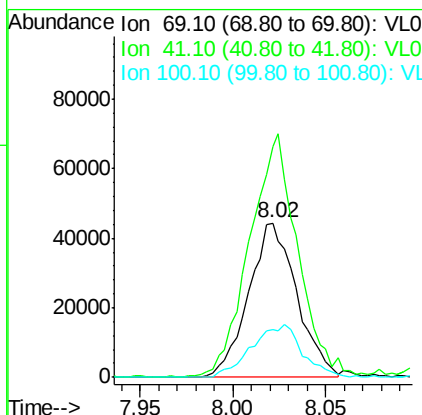
#43
Methvl Methacrylate
Concen: 1.033 ppbv
RT: 8.02 min Scan# 1628
Delta R.T. 0.00 min
Lab File: VL034843.D
Acq: 9 Mar 2020 13:36

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	159.7	123.2	184.8	
100	36.4	26.9	40.3	

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

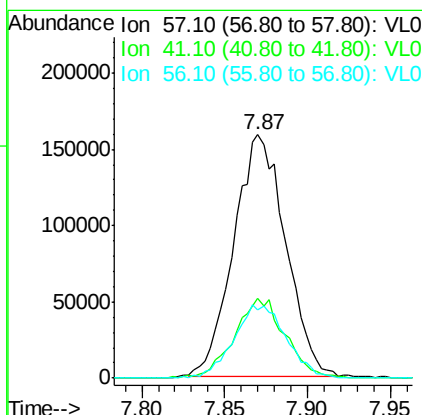
Manual Integrations
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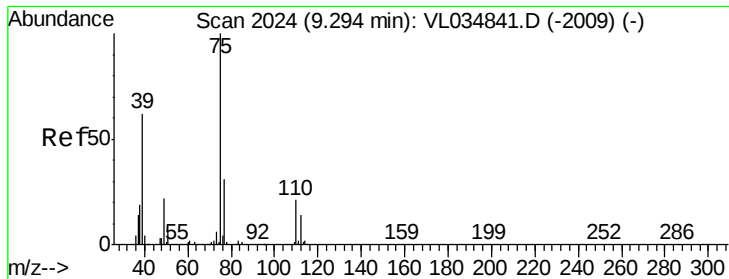
MMDadoda
3/11/2020 3:25:59 PM



#44
2,2,4-Trimethylpentane
Concen: 1.078 ppbv
RT: 7.87 min Scan# 1581
Delta R.T. -0.00 min
Lab File: VL034843.D
Acq: 9 Mar 2020 13:36

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	32.4	26.2	39.4	
56	30.7	25.0	37.4	





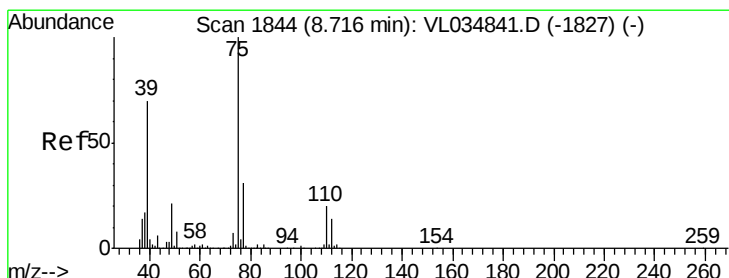
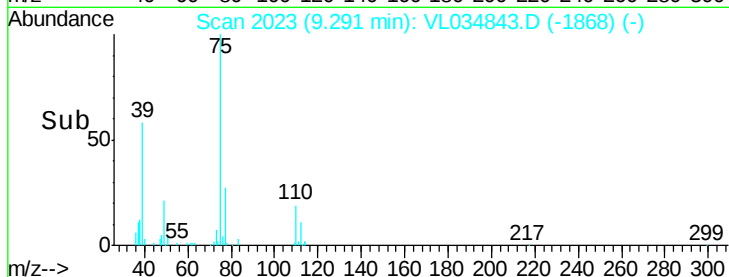
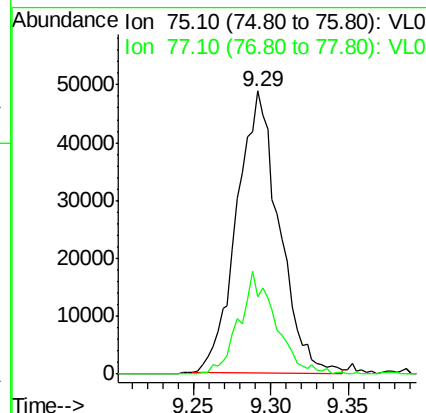
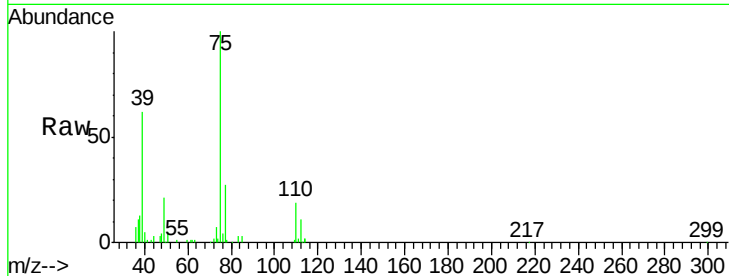
#45
 t-1,3-Dichloropropene
 Concen: 1.144 ppbv
 RT: 9.29 min Scan# 2023
 Delta R.T. -0.00 min
 Lab File: VL034843.D
 Acq: 9 Mar 2020 13:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
75	100		
77	27.1	24.6	37.0

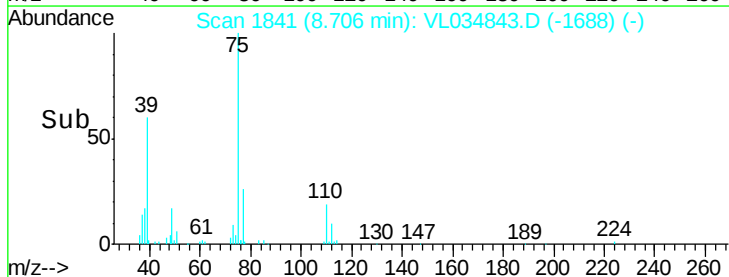
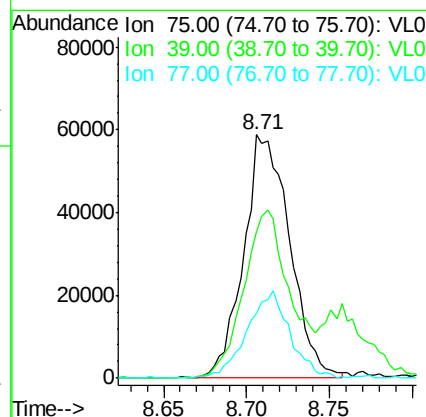
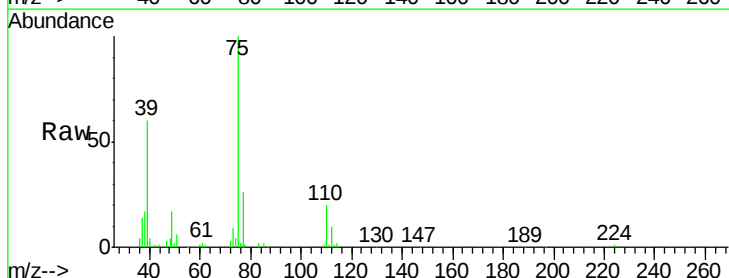
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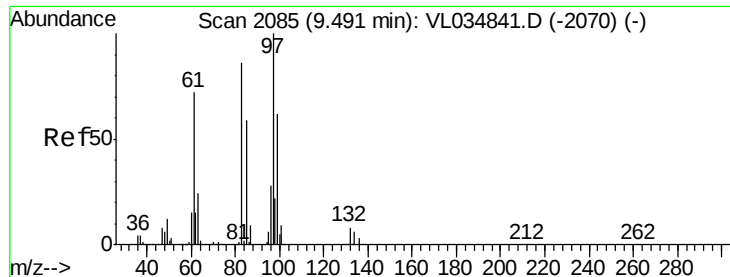
MMDadoda
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#46
 cis-1,3-Dichloropropene
 Concen: 1.142 ppbv
 RT: 8.71 min Scan# 1841
 Delta R.T. -0.01 min
 Lab File: VL034843.D
 Acq: 9 Mar 2020 13:36

Tgt Ion	Ratio	Lower	Upper
75	100		
39	60.2	55.7	83.5
77	26.5	24.7	37.1





#47

1,1,2-Trichloroethane

Concen: 1.044 ppbv m

RT: 9.48 min Scan# 2083

Delta R.T. -0.01 min

Lab File: VL034843.D

Acq: 9 Mar 2020 13:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 97 Resp: 81436

Ion Ratio Lower Upper

97 100

83 95.9 68.6 102.8

85 59.4 46.9 70.3

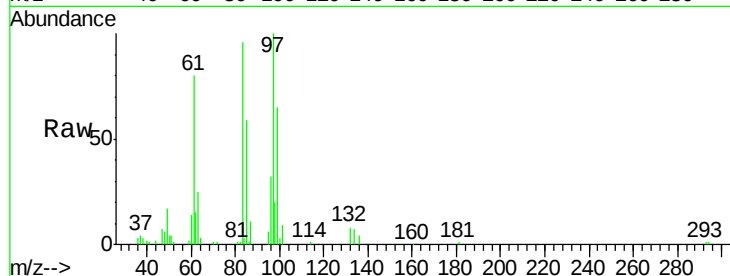
99 65.3 49.9 74.9

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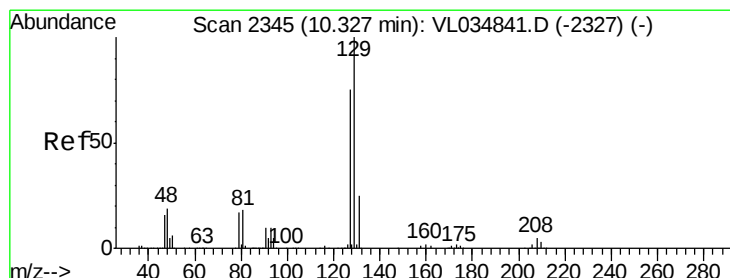
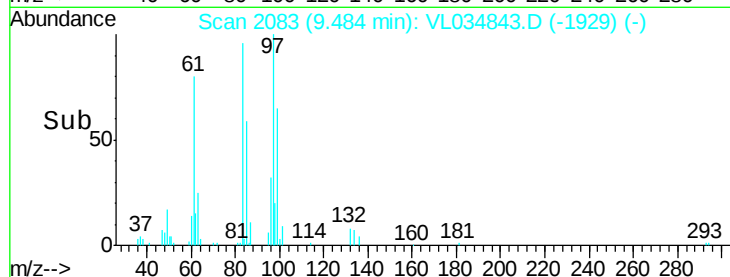
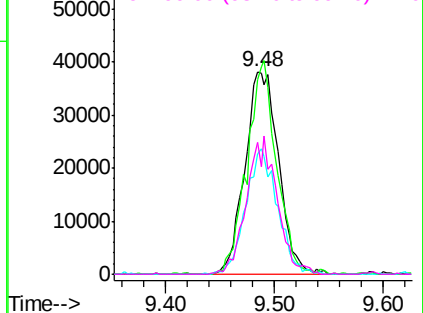


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 1.047 ppbv

RT: 10.32 min Scan# 2344

Delta R.T. -0.00 min

Lab File: VL034843.D

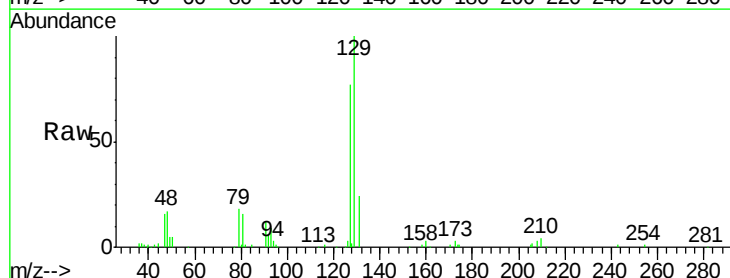
Acq: 9 Mar 2020 13:36

Tgt Ion: 129 Resp: 127690

Ion Ratio Lower Upper

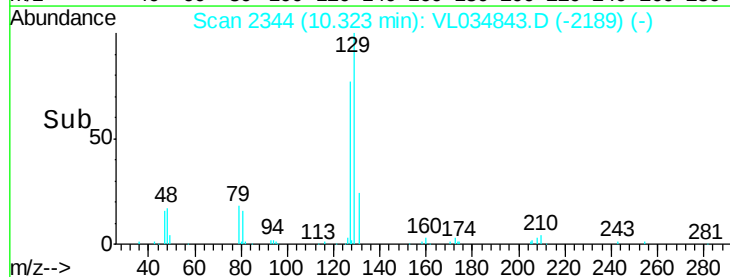
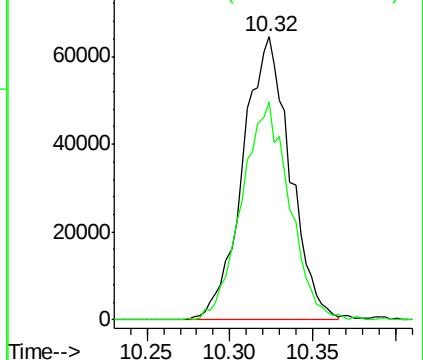
129 100

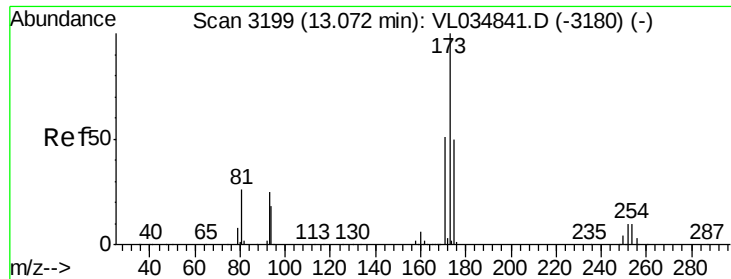
127 77.7 39.6 118.7



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





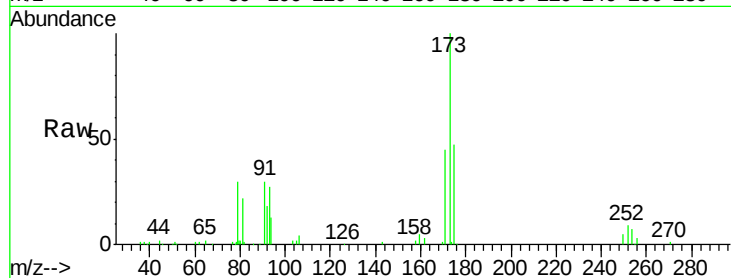
#49
Bromoform
Concen: 1.036 ppbv
RT: 13.06 min Scan# 3196
Delta R.T. -0.01 min
Lab File: VL034843.D
Acq: 9 Mar 2020 13:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

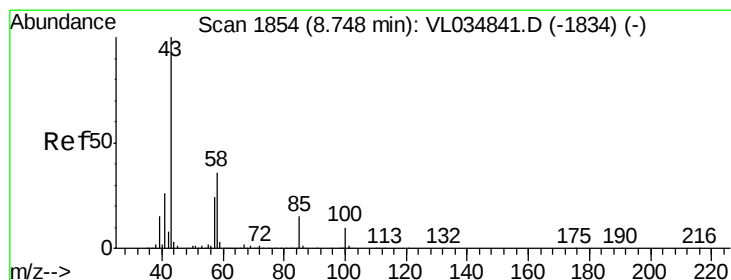
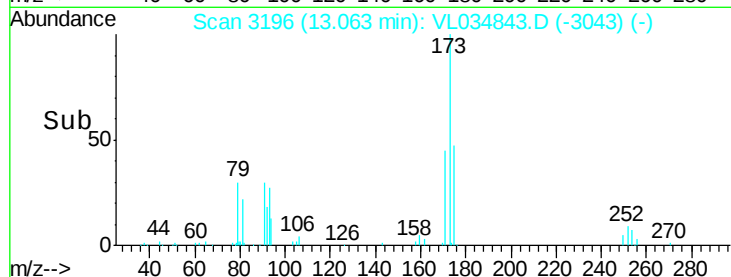
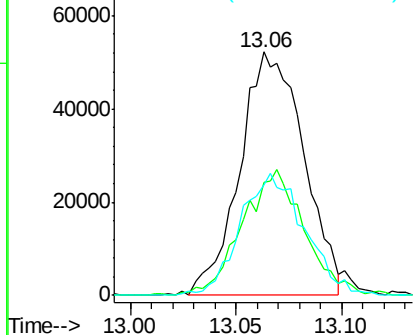
Tot Ion	Ratio	Lower	Upper
173	100		
175	50.7	39.6	59.4
171	50.4	41.0	61.6

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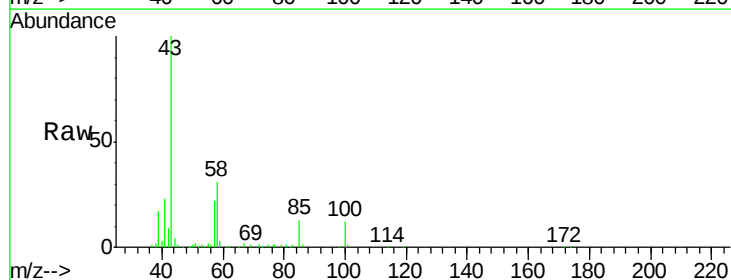


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

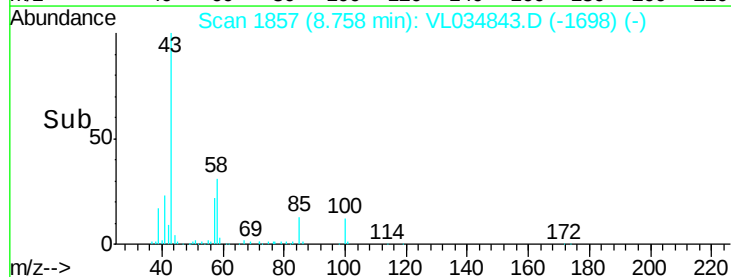
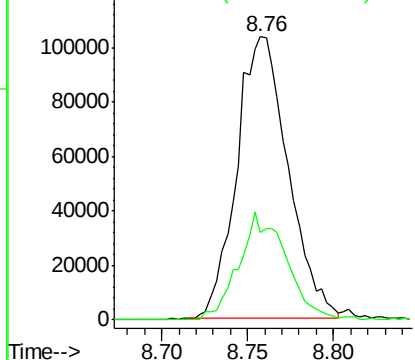


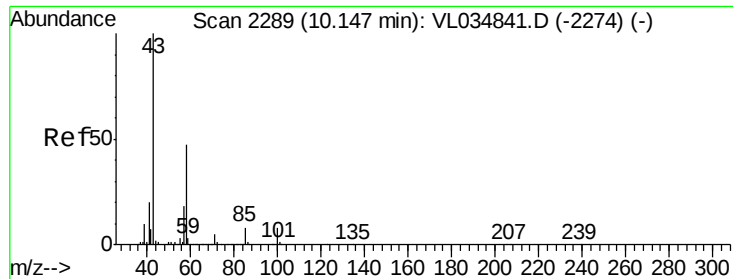
#50
4-Methyl-2-Pentanone
Concen: 1.079 ppbv
RT: 8.76 min Scan# 1857
Delta R.T. 0.01 min
Lab File: VL034843.D
Acq: 9 Mar 2020 13:36

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.7	28.6	42.8



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





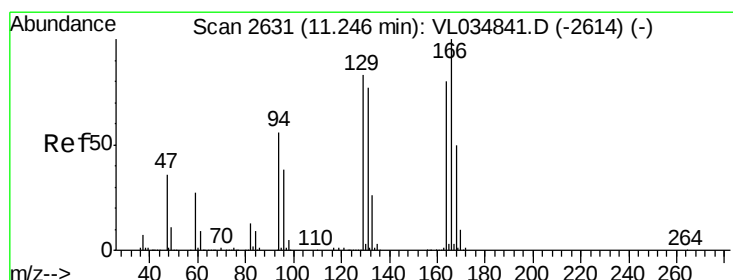
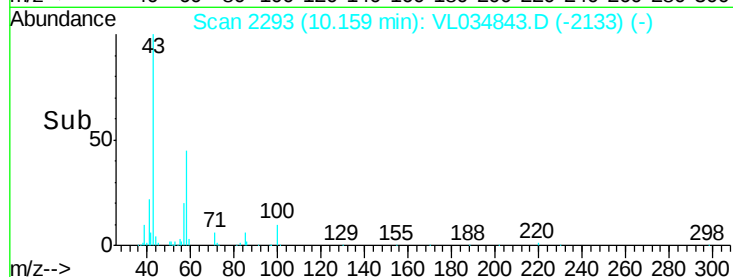
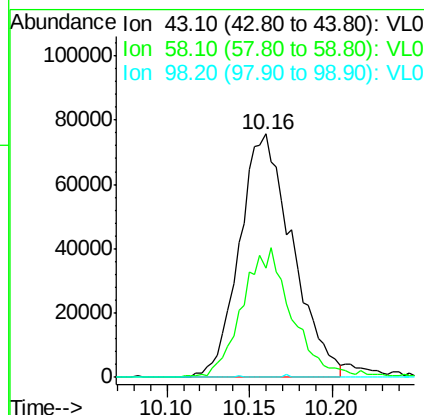
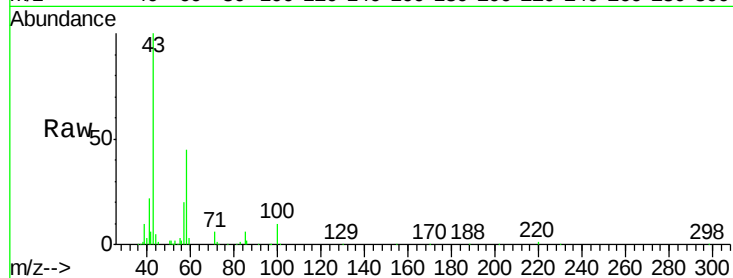
#51
2-Hexanone
Concen: 1.070 ppbv
RT: 10.16 min Scan# 2293
Delta R.T. 0.01 min
Lab File: VL034843.D
Acq: 9 Mar 2020 13:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
43	100		
58	51.0	38.6	58.0
98	0.2	0.1	0.1#

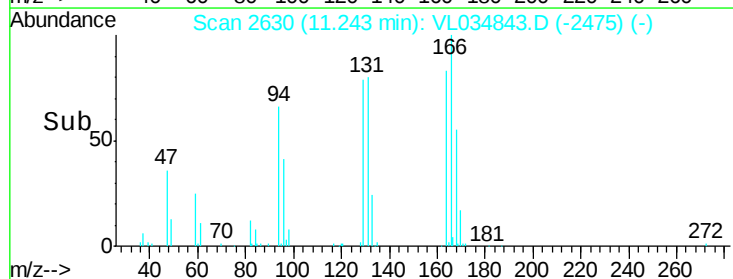
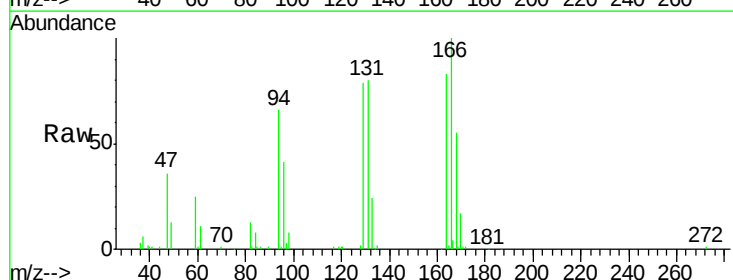
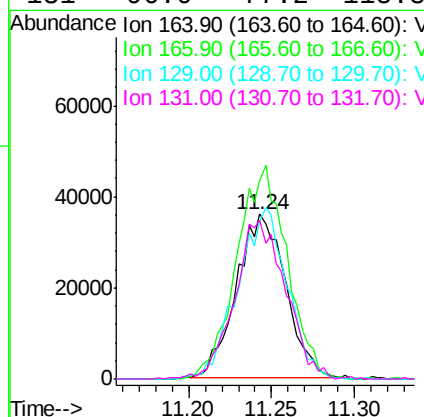
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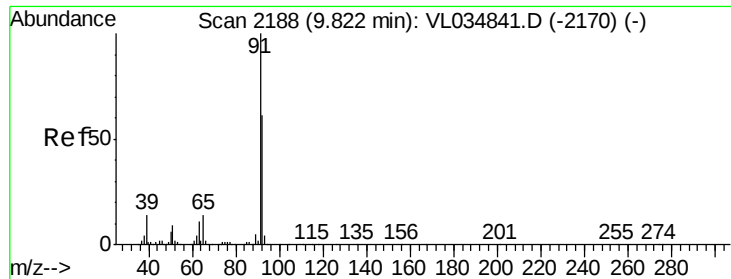
MMDadoda
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#52
Tetrachloroethene
Concen: 1.111 ppbv
RT: 11.24 min Scan# 2630
Delta R.T. -0.00 min
Lab File: VL034843.D
Acq: 9 Mar 2020 13:36

Tgt Ion	Ratio	Lower	Upper
164	100		
166	119.8	100.0	150.0
129	95.8	83.1	124.7
131	96.0	77.2	115.8





#53

Toluene

Concen: 1.194 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. -0.00 min

Lab File: VL034843.D

Acq: 9 Mar 2020 13:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 231340

Ion Ratio Lower Upper

91 100

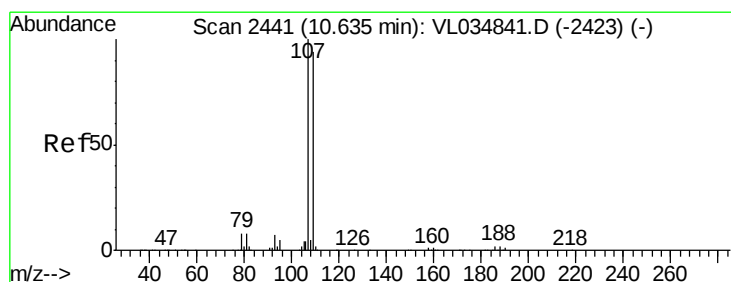
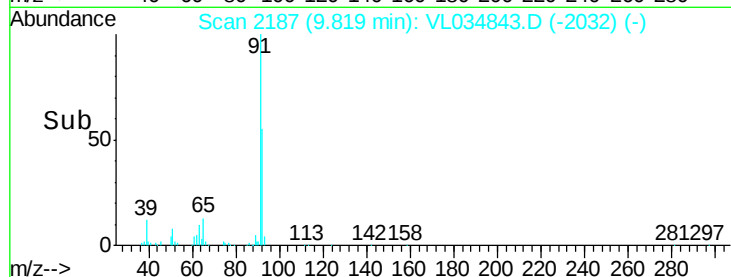
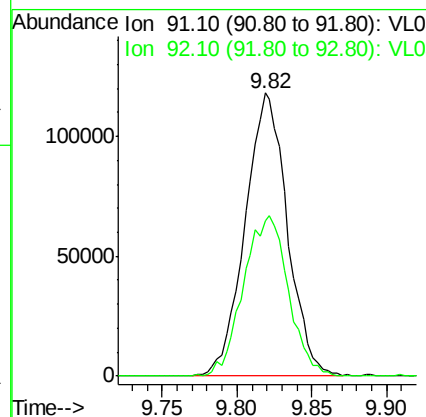
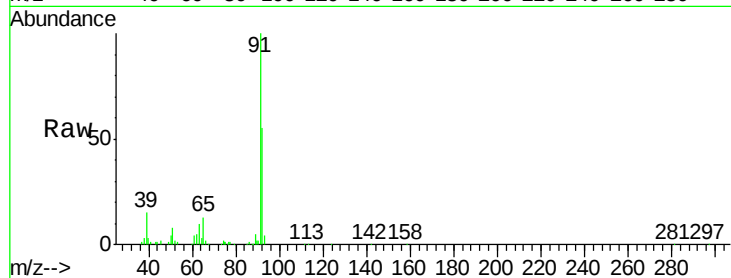
92 60.2 48.6 72.8

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#54

1,2-Dibromoethane

Concen: 1.060 ppbv

RT: 10.63 min Scan# 2439

Delta R.T. -0.01 min

Lab File: VL034843.D

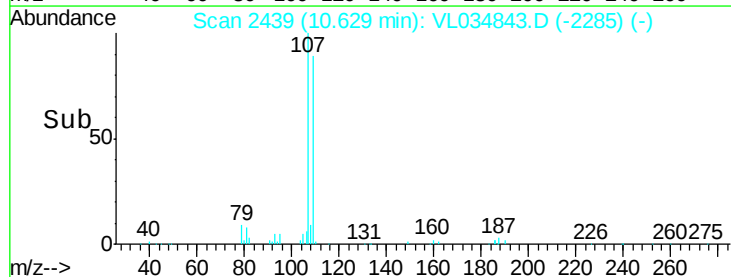
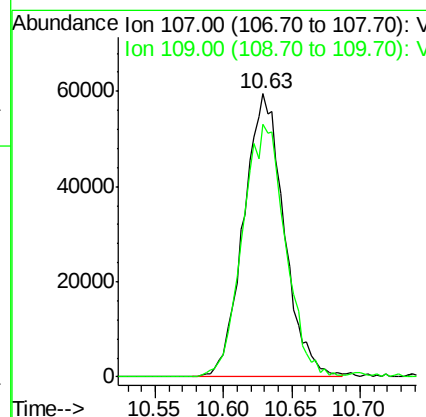
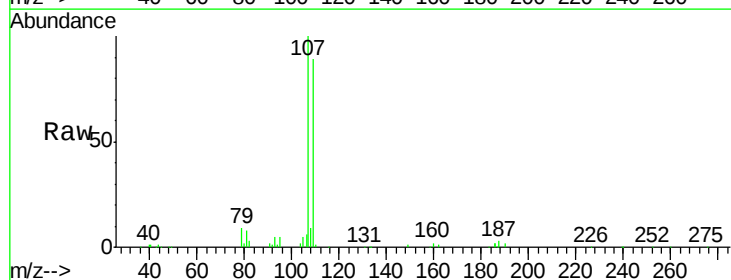
Acq: 9 Mar 2020 13:36

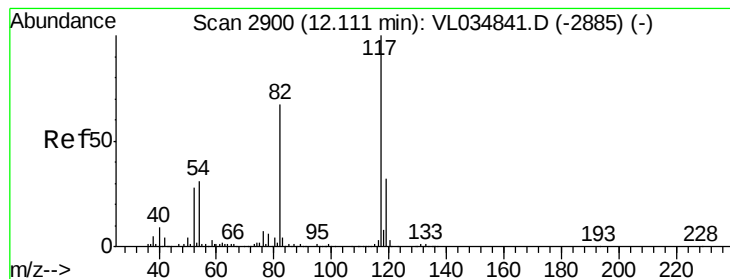
Tgt Ion: 107 Resp: 122240

Ion Ratio Lower Upper

107 100

109 89.4 74.9 112.3





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2900

Delta R.T. 0.00 min

Lab File: VL034843.D

Acq: 9 Mar 2020 13:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion:117 Resp: 2158837

Ion Ratio Lower Upper

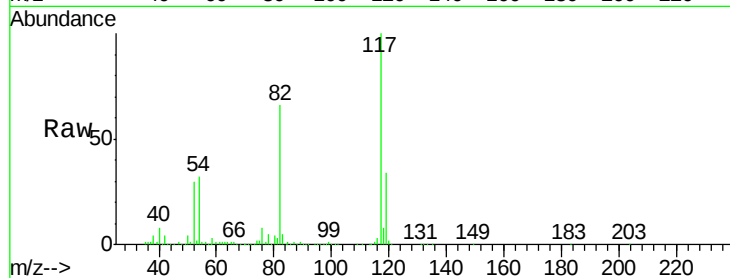
117 100

82 64.8 51.1 76.7

119 35.1 27.3 40.9

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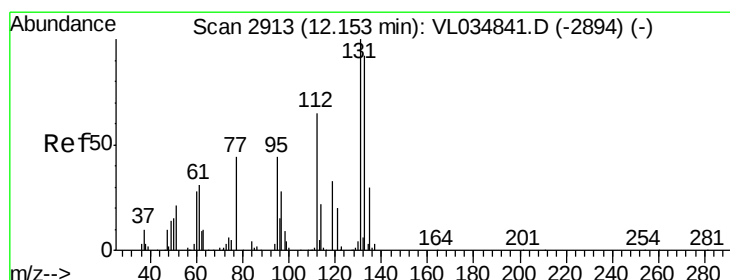
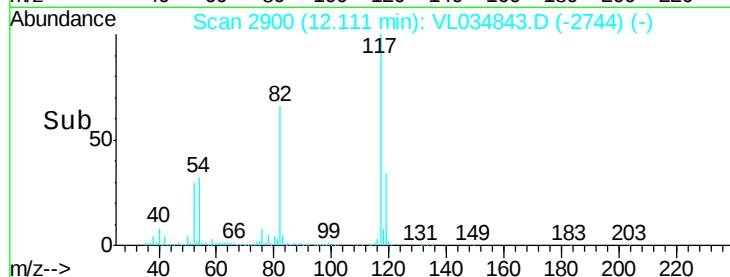
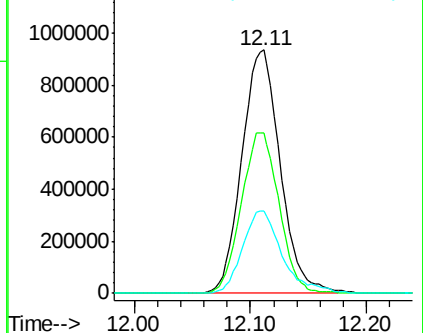
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Abundance Ion 117.10 (116.80 to 117.80): V

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: 1.088 ppbv m

RT: 12.15 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VL034843.D

Acq: 9 Mar 2020 13:36

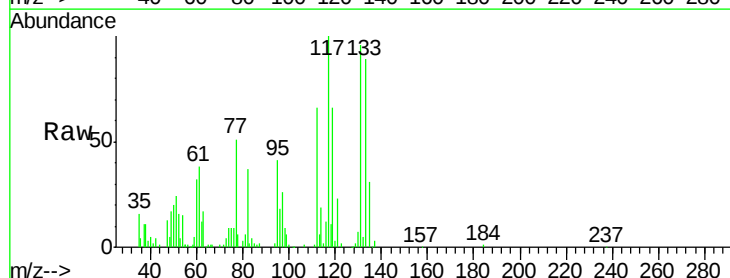
Tgt Ion:131 Resp: 104049

Ion Ratio Lower Upper

131 100

133 97.0 76.0 114.0

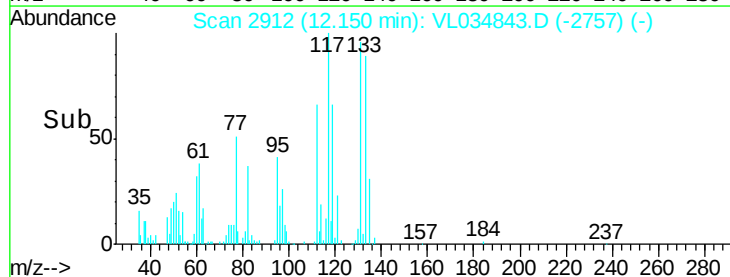
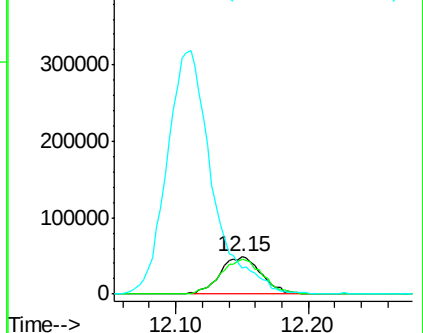
119 0.0 47.8 71.8#

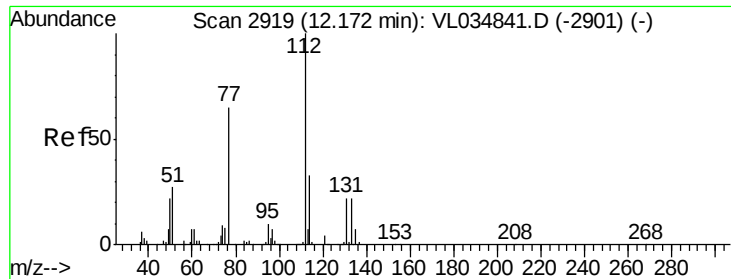


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 1.125 ppbv

RT: 12.17 min Scan# 2919

Delta R.T. 0.00 min

Lab File: VL034843.D

Acq: 9 Mar 2020 13:36

Instrument :

MSVOA_L

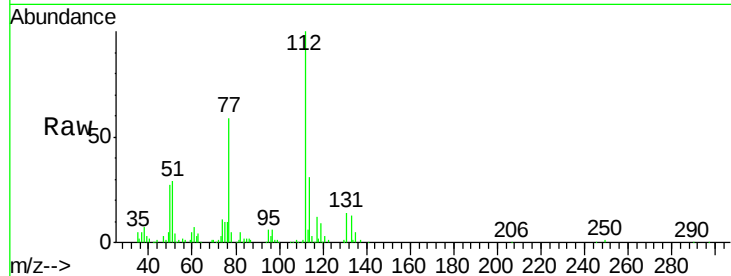
ClientSampleId :

VSTDIC001

Tot Ion:	112	Resp:	185460
Ion Ratio	Lower	Upper	
112	100		
77	59.2	53.0	79.6
114	30.8	29.5	36.1

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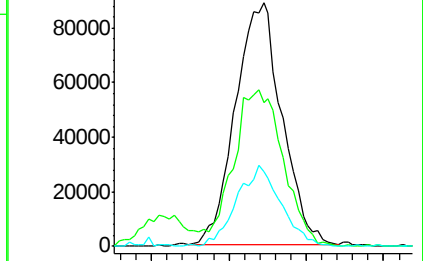
MMDadoda
3/11/2020 3:25:59 PM



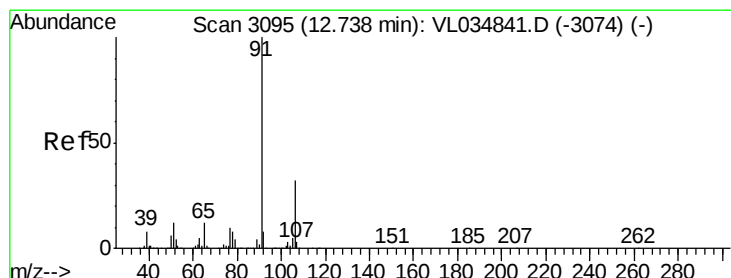
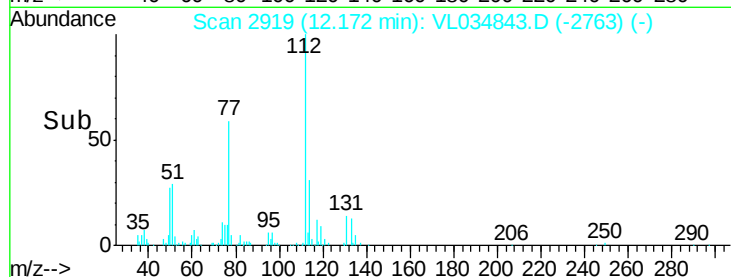
Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



Time-->



#58

Ethyl Benzene

Concen: 1.165 ppbv

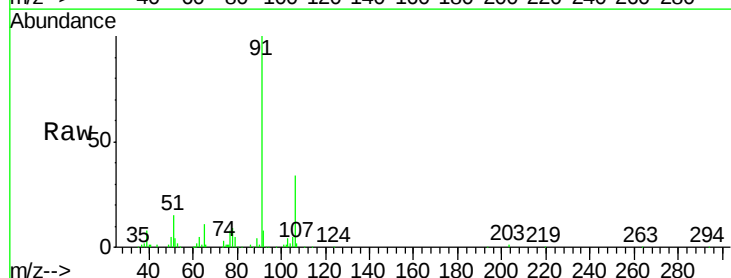
RT: 12.73 min Scan# 3094

Delta R.T. -0.00 min

Lab File: VL034843.D

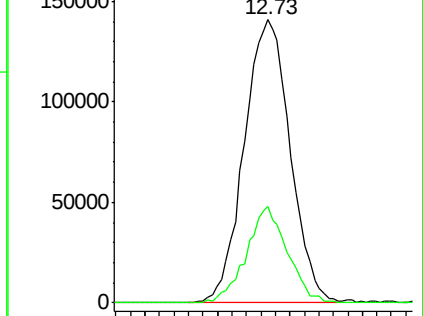
Acq: 9 Mar 2020 13:36

Tgt Ion:	91	Resp:	309899
Ion Ratio	Lower	Upper	
91	100		
106	34.3	25.8	38.6

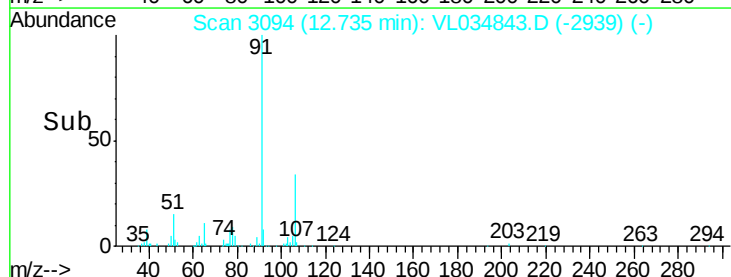


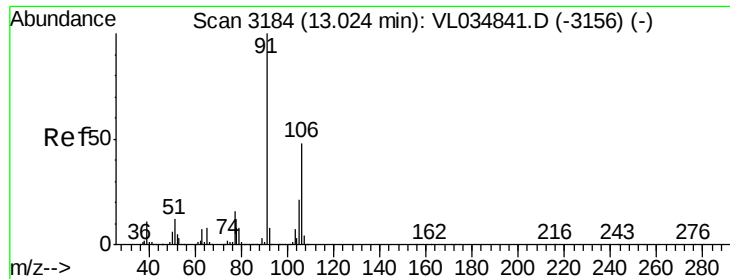
Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



Time-->





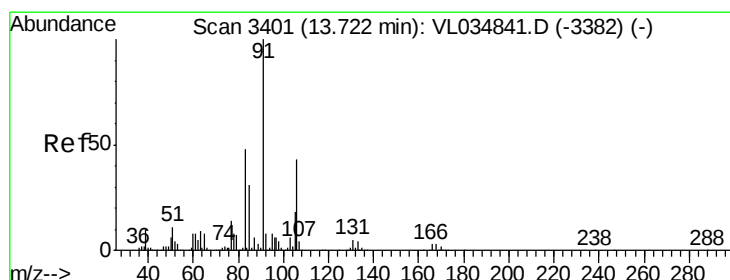
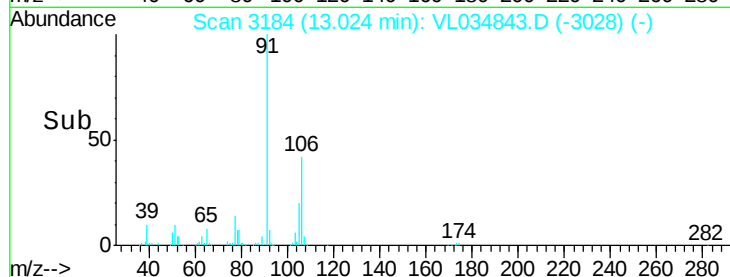
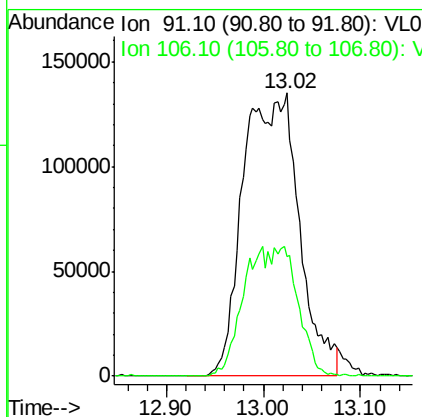
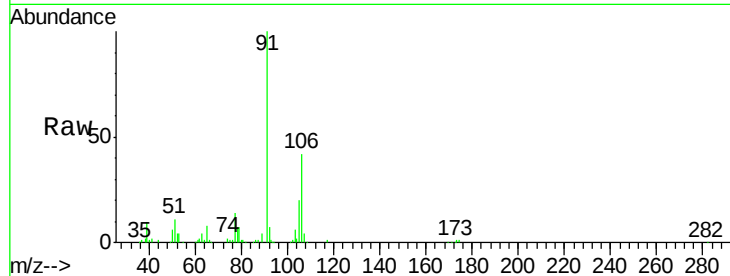
#59
m/p-Xylene
Concen: 2.347 ppbv m
RT: 13.02 min Scan# 3184
Delta R.T. 0.00 min
Lab File: VL034843.D
Acq: 9 Mar 2020 13:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 91 Resp: 540482
Ion Ratio Lower Upper
91 100
106 43.7 37.1 55.7

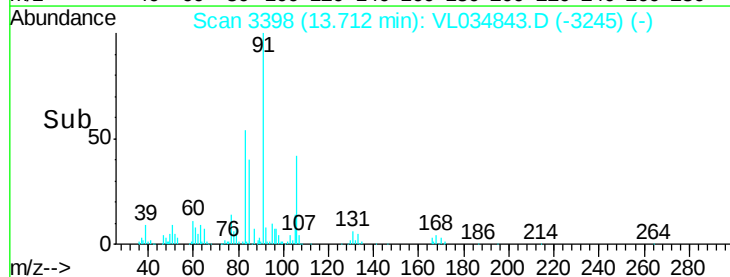
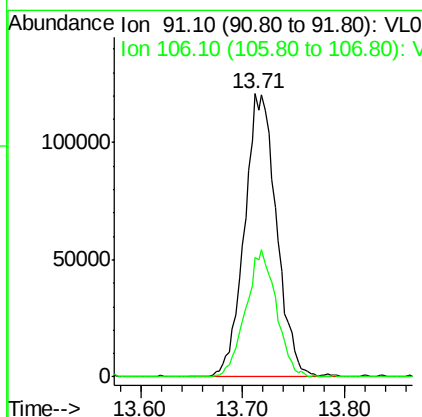
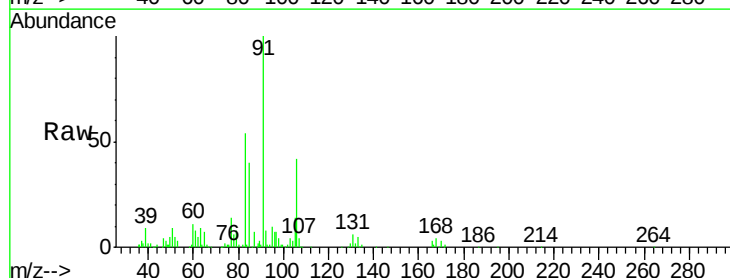
Manual Integrations
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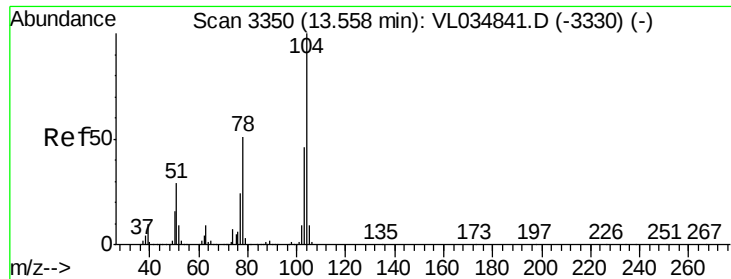
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#60
o-Xylene
Concen: 1.134 ppbv m
RT: 13.71 min Scan# 3398
Delta R.T. -0.01 min
Lab File: VL034843.D
Acq: 9 Mar 2020 13:36

Tgt Ion: 91 Resp: 264280
Ion Ratio Lower Upper
91 100
106 42.8 22.5 67.5





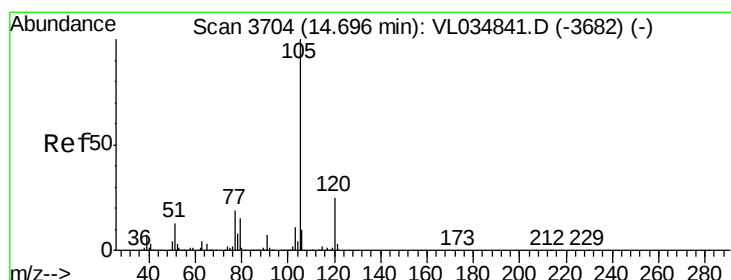
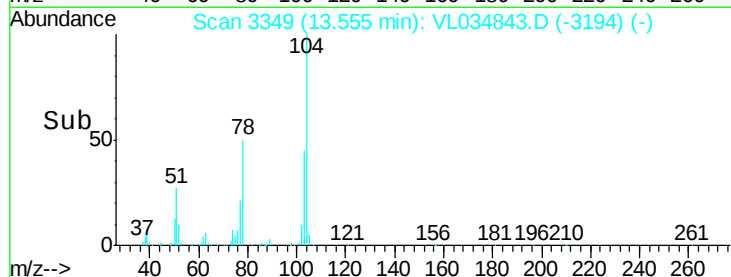
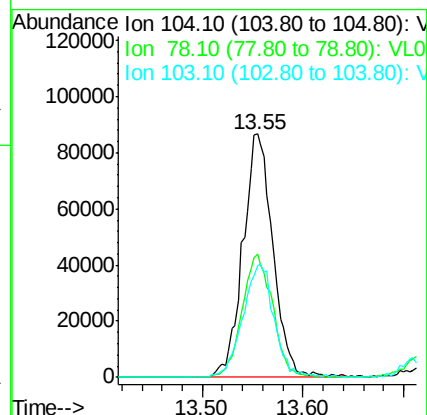
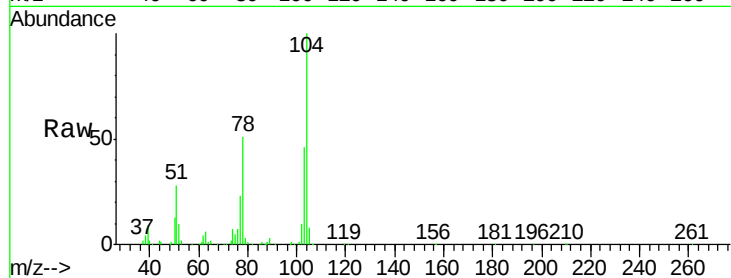
#61
Stvrene
Concen: 1.242 ppbv m
RT: 13.55 min Scan# 3349
Delta R.T. -0.00 min
Lab File: VL034843.D
Acq: 9 Mar 2020 13:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
104	100		
78	51.3	41.8	62.6
103	48.7	37.8	56.6

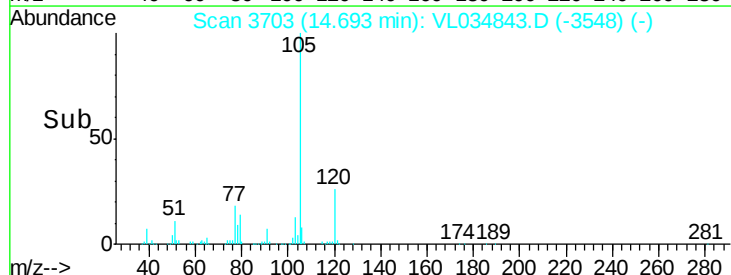
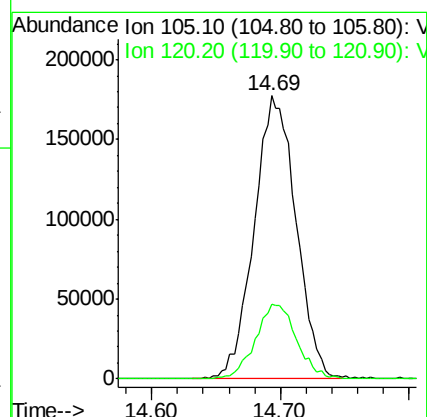
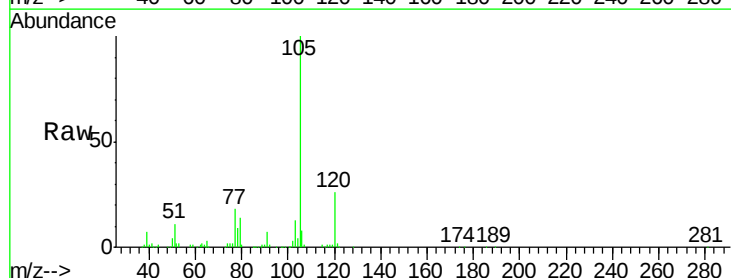
Manual Integrations
APPROVED

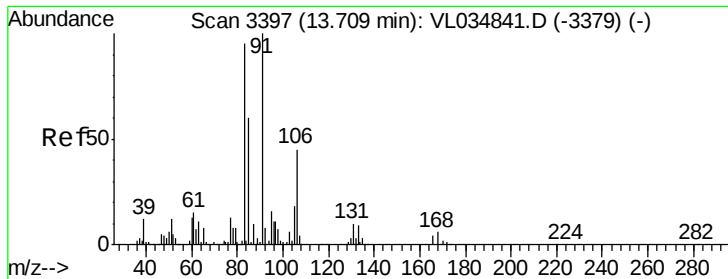
MMDadoda
3/11/2020 3:25:59 PM



#62
Isopropylbenzene
Concen: 1.167 ppbv
RT: 14.69 min Scan# 3703
Delta R.T. -0.00 min
Lab File: VL034843.D
Acq: 9 Mar 2020 13:36

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.9	21.0	31.4





#63

1,1,2,2-Tetrachloroethane

Concen: 0.969 ppbv

RT: 13.70 min Scan# 3395

Delta R.T. -0.01 min

Lab File: VL034843.D

Acq: 9 Mar 2020 13:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 83 Resp: 178029

Ion Ratio Lower Upper

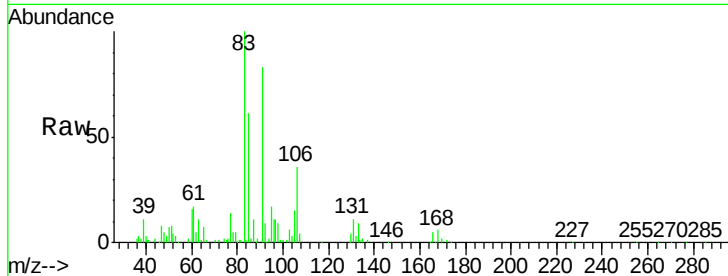
83 100

131 10.5 5.0 14.9

85 66.6 32.4 97.2

Manual Integrations
APPROVED

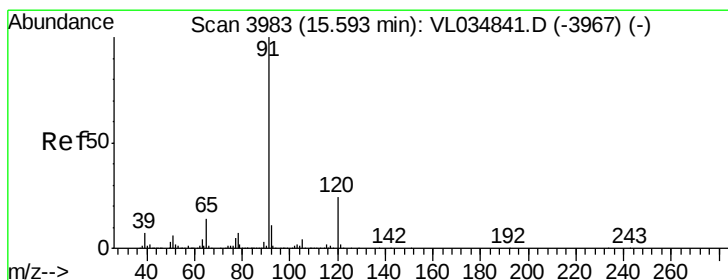
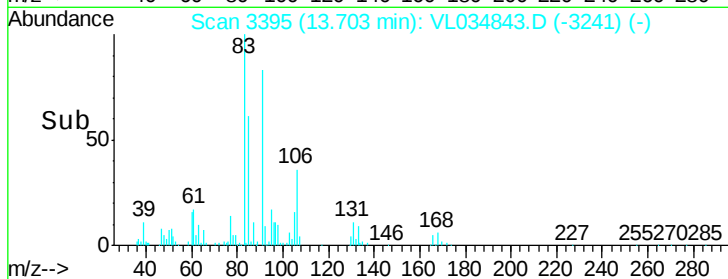
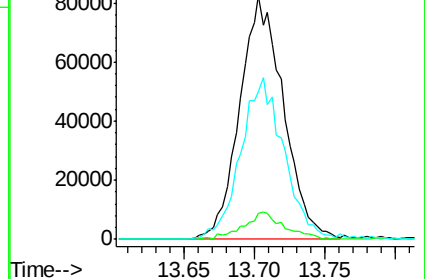
MMDadoda
3/11/2020 3:25:59 PM



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



#64

n-propylbenzene

Concen: 1.170 ppbv m

RT: 15.59 min Scan# 3983

Delta R.T. 0.00 min

Lab File: VL034843.D

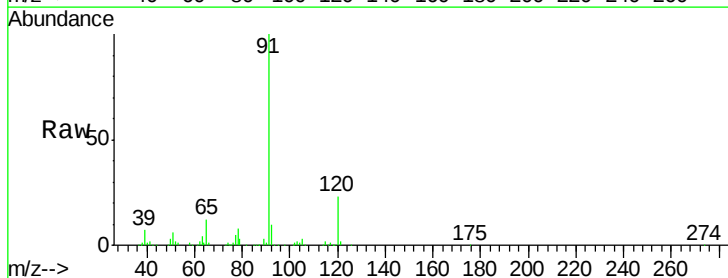
Acq: 9 Mar 2020 13:36

Tgt Ion: 120 Resp: 100573

Ion Ratio Lower Upper

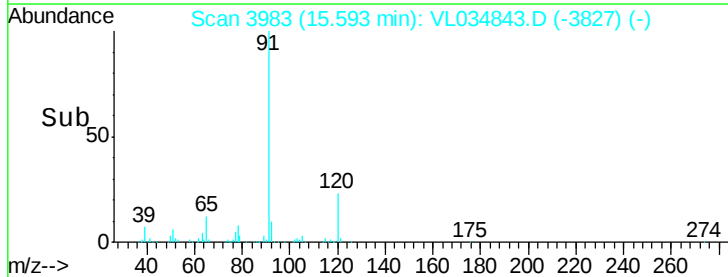
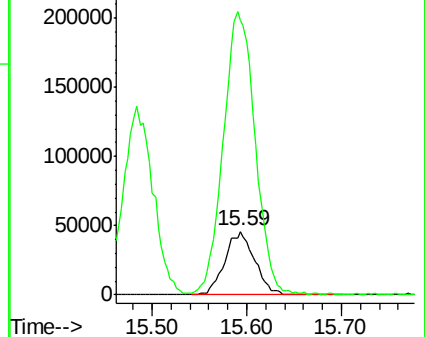
120 100

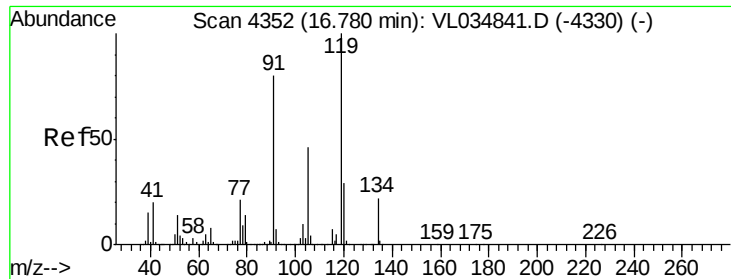
91 0.0 360.9 541.3#



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





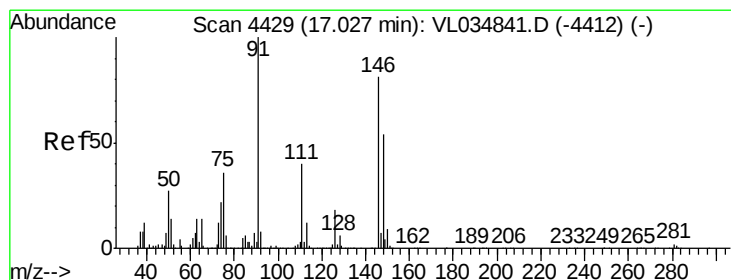
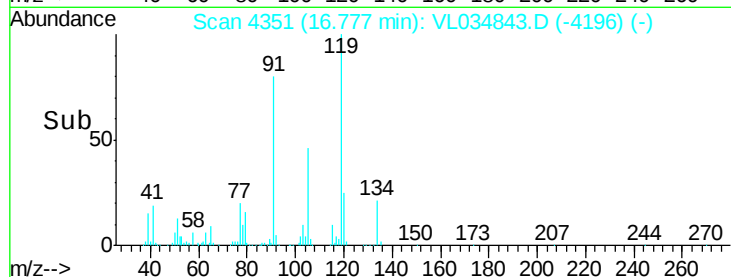
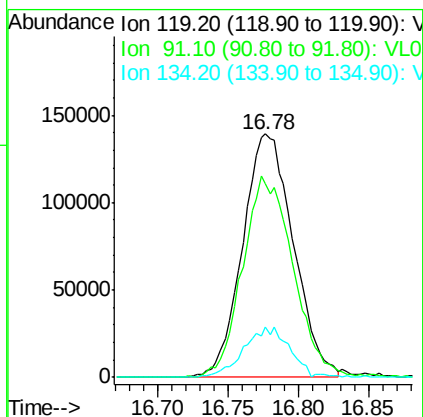
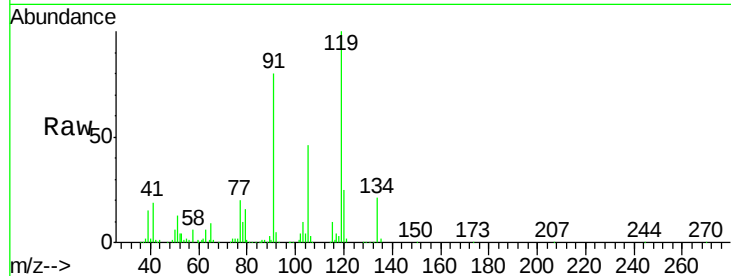
#65
tert-Butylbenzene
Concen: 1.207 ppbv
RT: 16.78 min Scan# 4351
Delta R.T. -0.00 min
Lab File: VL034843.D
Acq: 9 Mar 2020 13:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
119	100		
91	83.0	64.9	97.3
134	19.0	15.9	23.9

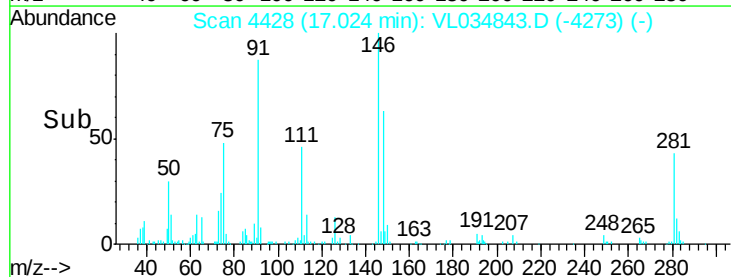
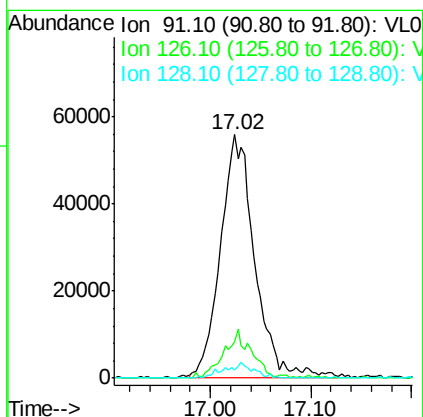
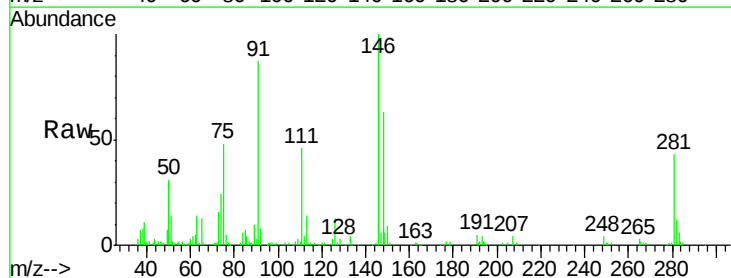
Manual Integrations
APPROVED

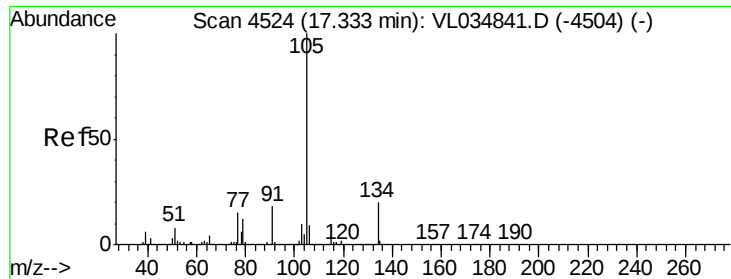
MMDadoda
3/11/2020 3:25:59 PM



#66
Benzyl Chloride
Concen: 1.416 ppbv m
RT: 17.02 min Scan# 4428
Delta R.T. -0.00 min
Lab File: VL034843.D
Acq: 9 Mar 2020 13:36

Tgt Ion	Ratio	Lower	Upper
91	100		
126	16.2	14.7	22.1
128	5.3	4.7	7.1





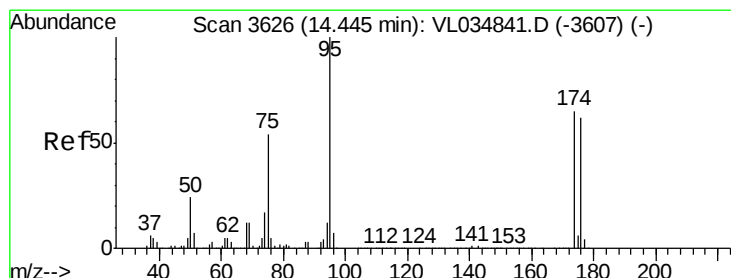
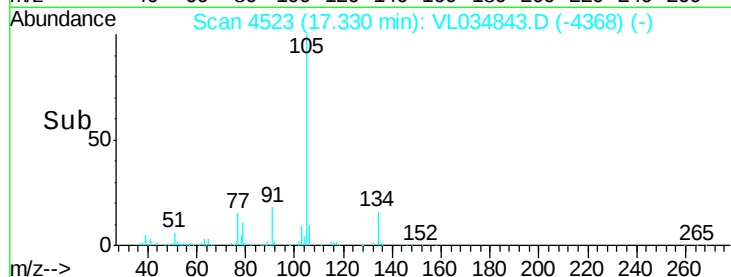
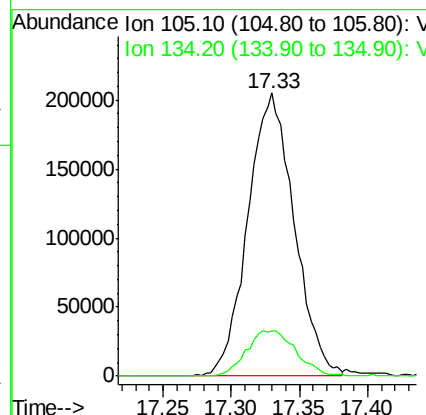
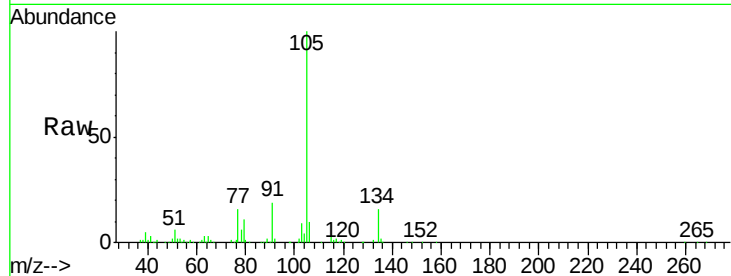
#67
 sec-Butylbenzene
 Concen: 1.147 ppbv
 RT: 17.33 min Scan# 4523
 Delta R.T. -0.00 min
 Lab File: VL034843.D
 Acq: 9 Mar 2020 13:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
105	100		
134	17.3	15.0	22.6

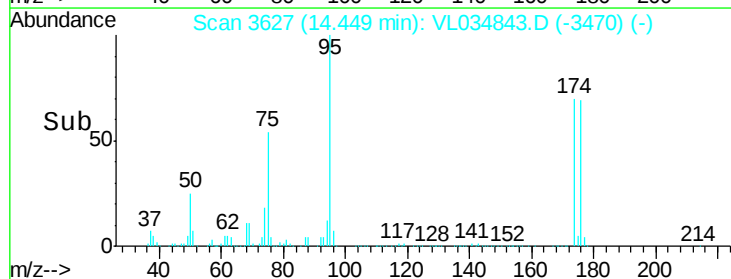
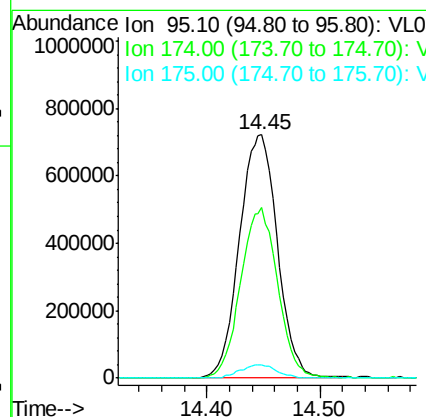
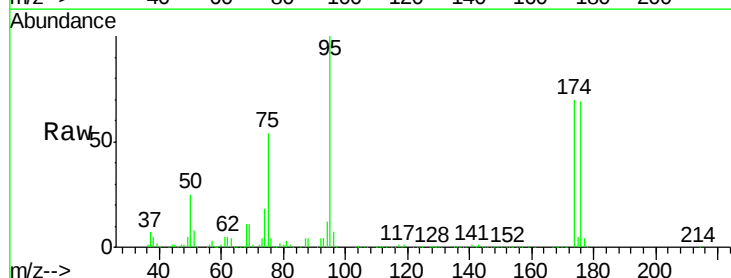
Manual Integrations
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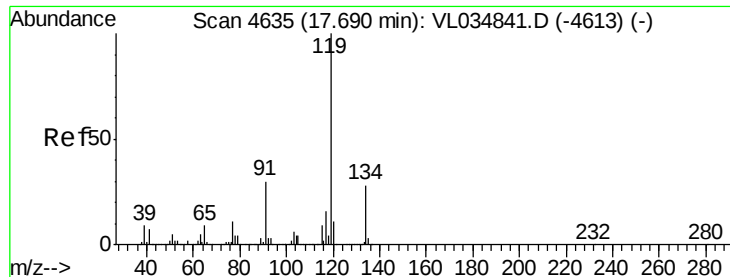
MMDadoda
 3/11/2020 3:25:59 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.380 ppbv
 RT: 14.45 min Scan# 3627
 Delta R.T. 0.00 min
 Lab File: VL034843.D
 Acq: 9 Mar 2020 13:36

Tgt Ion	Ratio	Lower	Upper
95	100		
174	68.4	55.2	82.8
175	5.3	4.3	6.5





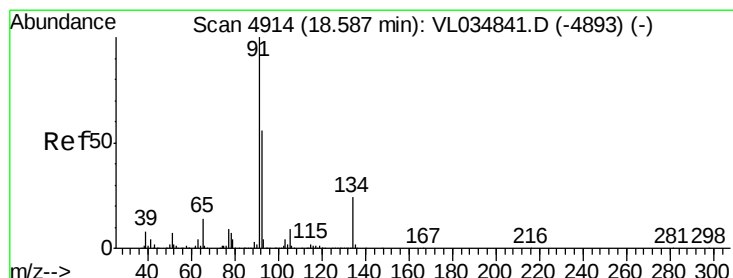
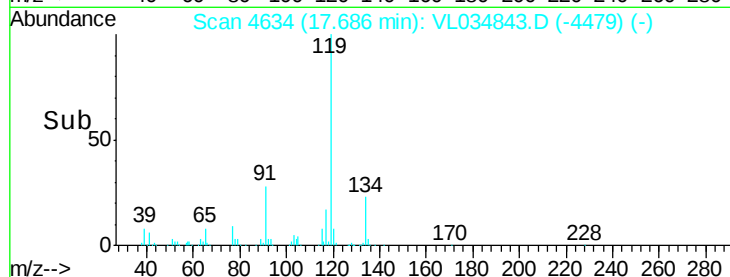
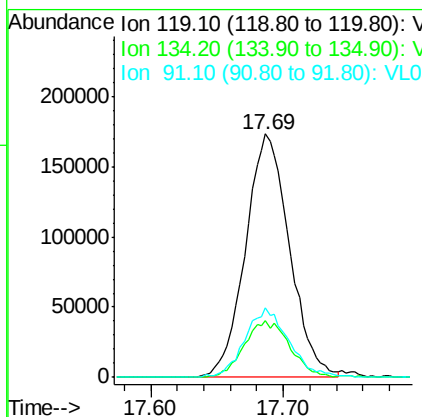
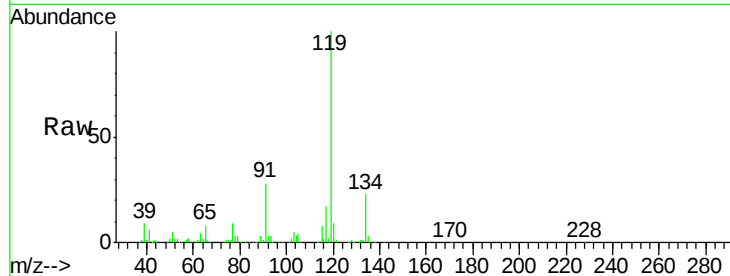
#69
 p-Isopropyltoluene
 Concen: 1.170 ppbv
 RT: 17.69 min Scan# 4634
 Delta R.T. -0.00 min
 Lab File: VL034843.D
 Acq: 9 Mar 2020 13:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
119	100	399981		
134	24.4	20.6	30.8	
91	28.5	23.4	35.2	

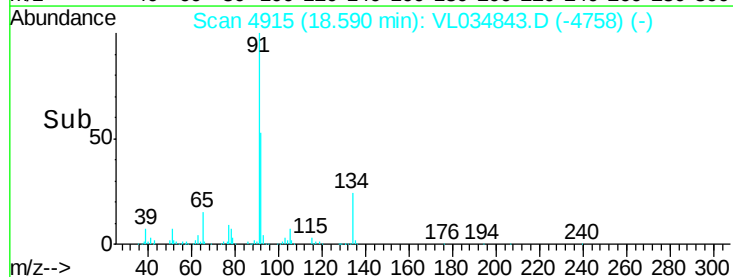
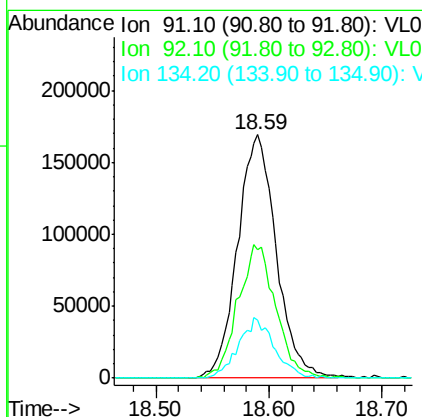
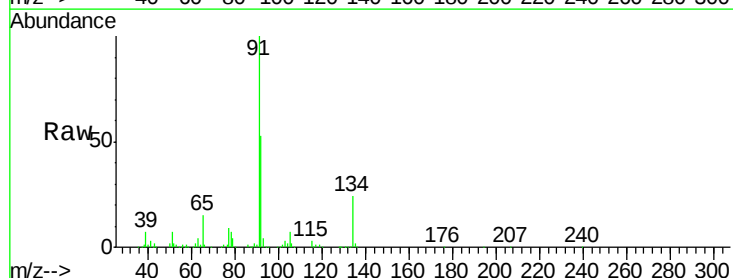
Manual Integrations
 APPROVED

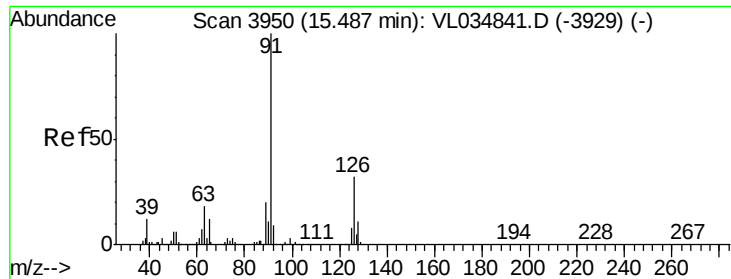
MMDadoda
 3/11/2020 3:25:59 PM



#70
 n-Butylbenzene
 Concen: 1.079 ppbv
 RT: 18.59 min Scan# 4915
 Delta R.T. 0.00 min
 Lab File: VL034843.D
 Acq: 9 Mar 2020 13:36

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	403150		
92	53.8	43.8	65.6	
134	22.9	19.0	28.4	





#71

2-Chlorotoluene

Concen: 1.152 ppbv

RT: 15.48 min Scan# 3949

Delta R.T. -0.00 min

Lab File: VL034843.D

Acq: 9 Mar 2020 13:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 298443

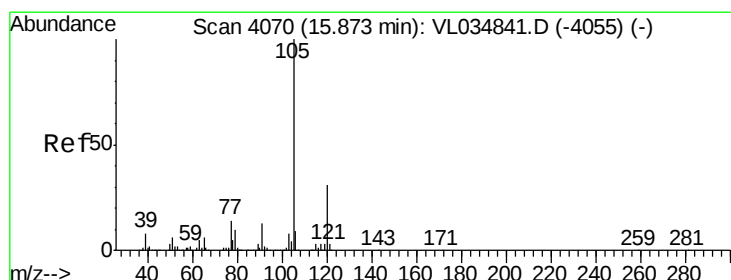
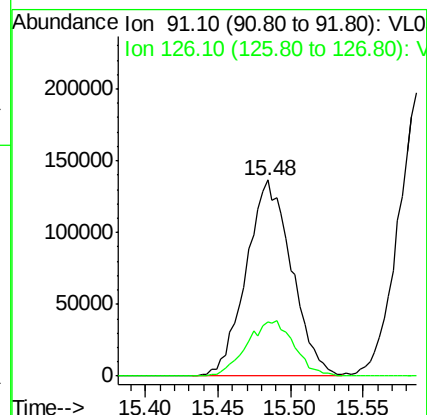
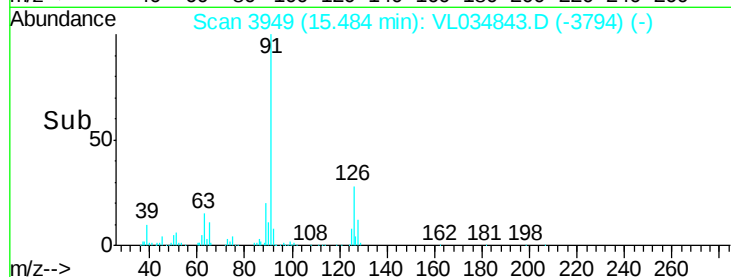
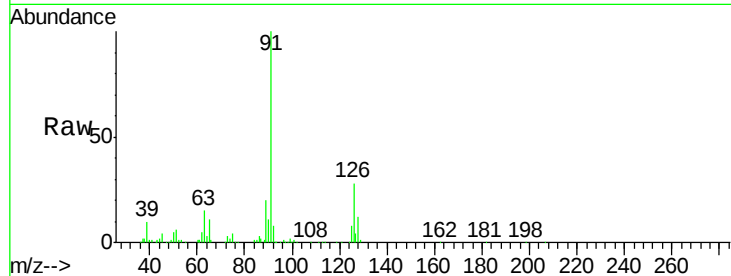
Ion Ratio Lower Upper

91 100

126 29.5 12.3 49.1

Manual Integrations
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#72

4-Ethyltoluene

Concen: 1.150 ppbv

RT: 15.87 min Scan# 4069

Delta R.T. -0.00 min

Lab File: VL034843.D

Acq: 9 Mar 2020 13:36

Tgt Ion: 105 Resp: 298408

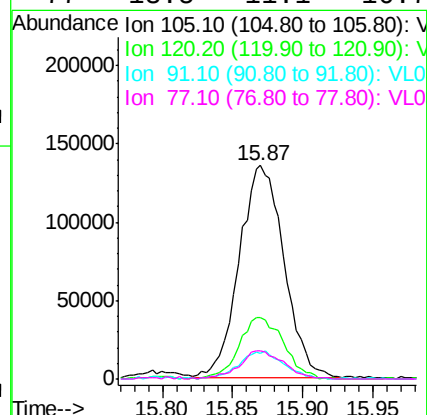
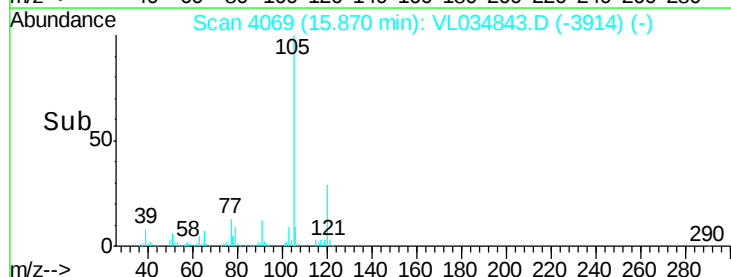
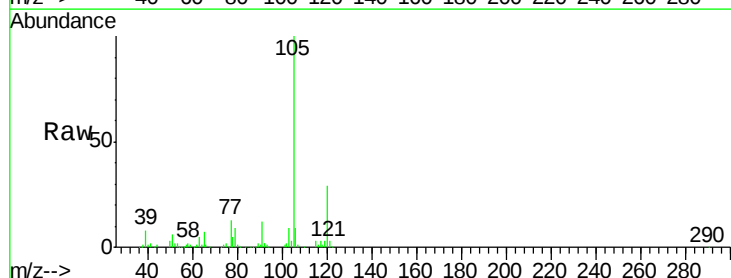
Ion Ratio Lower Upper

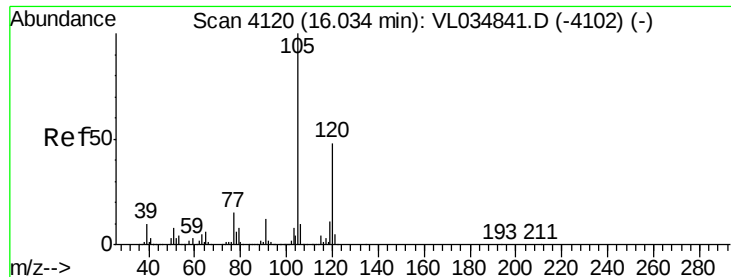
105 100

120 29.2 23.7 35.5

91 14.0 10.5 15.7

77 13.5 11.1 16.7





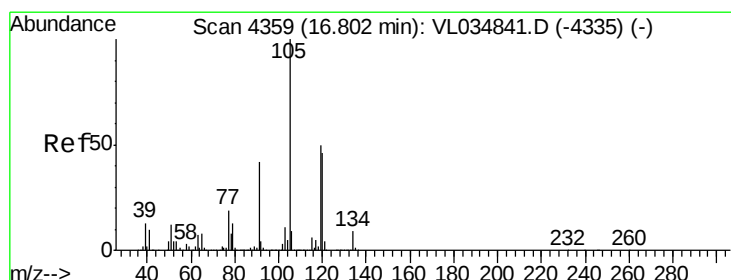
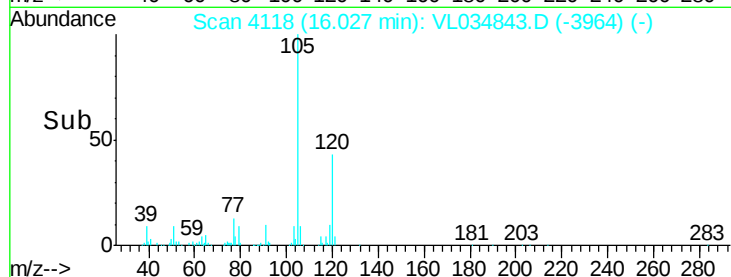
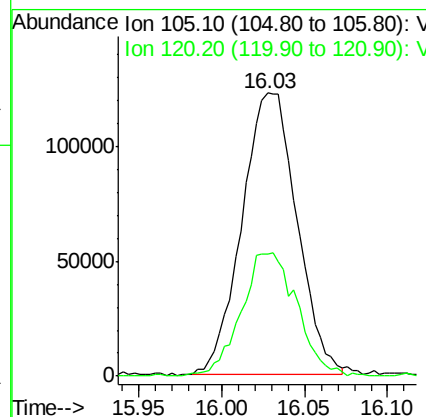
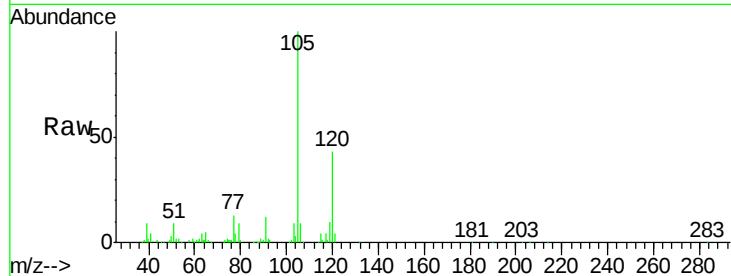
#73
 1,3,5-Trimethylbenzene
 Concen: 1.130 ppbv
 RT: 16.03 min Scan# 4118
 Delta R.T. -0.01 min
 Lab File: VL034843.D
 Acq: 9 Mar 2020 13:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
105	100	281319		
120	42.4	38.6	58.0	

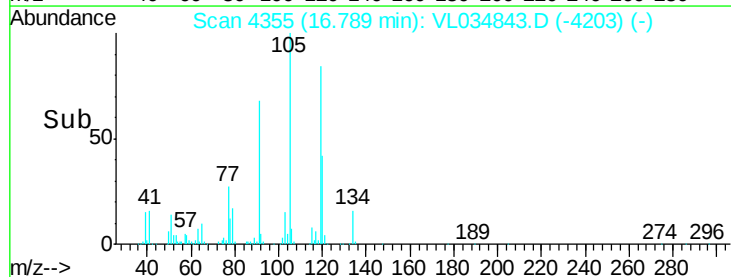
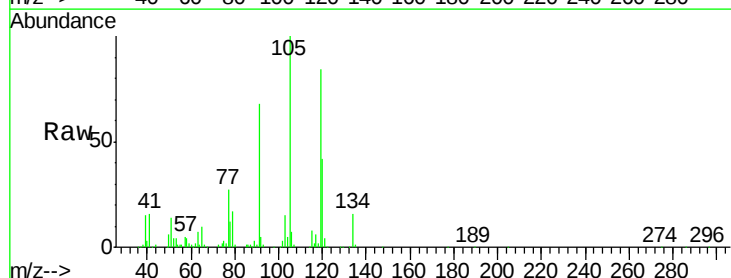
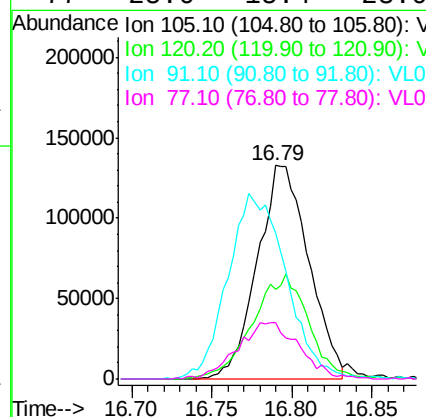
Manual Integrations
 APPROVED

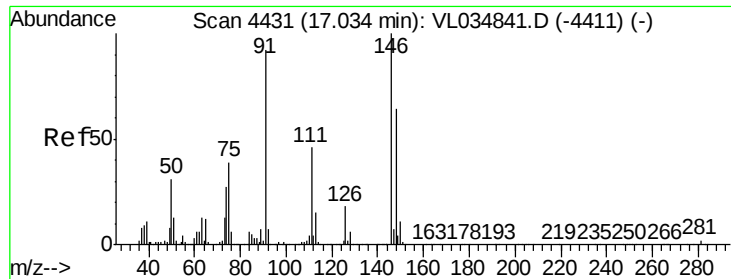
MMDadoda
 3/11/2020 3:25:59 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 1.089 ppbv
 RT: 16.79 min Scan# 4355
 Delta R.T. -0.01 min
 Lab File: VL034843.D
 Acq: 9 Mar 2020 13:36

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	294473		
120	41.8	37.0	55.4	
91	65.7	33.8	50.6#	
77	25.6	15.4	23.0#	





#75

1,3-Dichlorobenzene

Concen: 1.130 ppbv m

RT: 17.04 min Scan# 4432

Delta R.T. 0.00 min

Lab File: VL034843.D

Acq: 9 Mar 2020 13:36

Instrument :

MSVOA_L

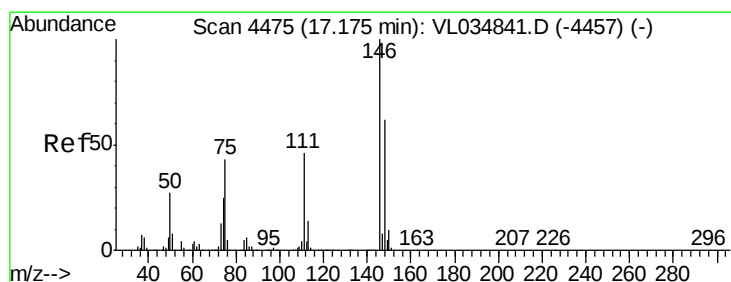
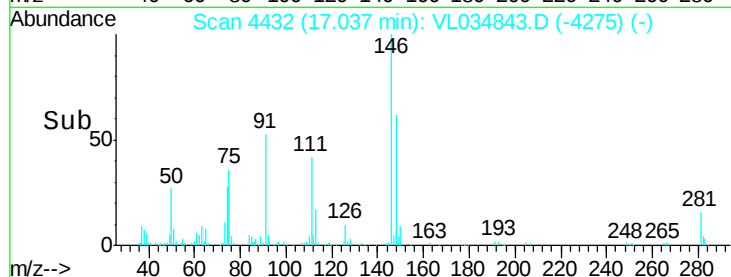
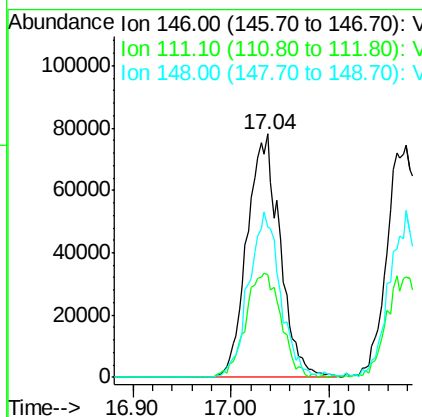
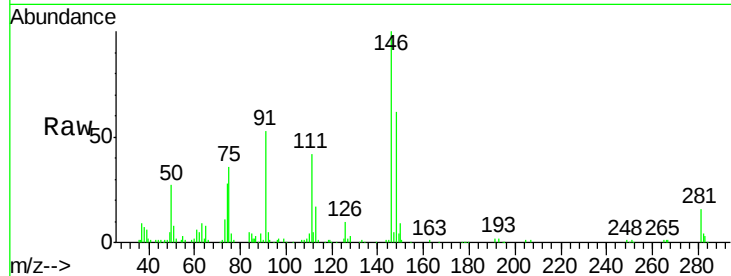
ClientSampled :

VSTDIC001

Tot Ion:	146	Resp:	181028
Ion Ratio	Lower	Upper	
146	100		
111	46.3	23.9	71.7
148	65.9	32.5	97.5

Manual Integrations
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3/11/2020 3:25:59 PM



#76

1,4-Dichlorobenzene

Concen: 1.177 ppbv m

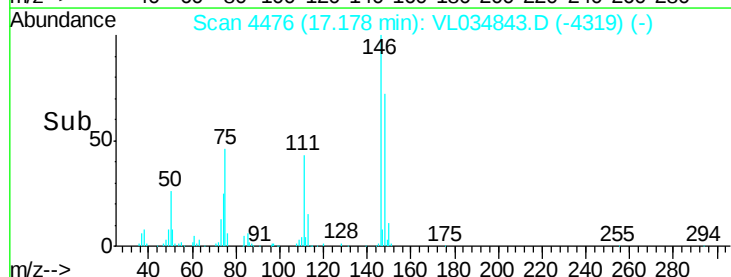
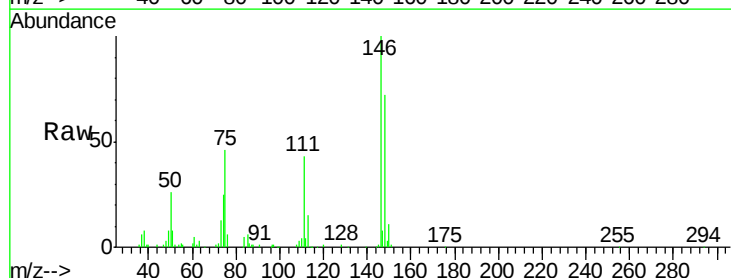
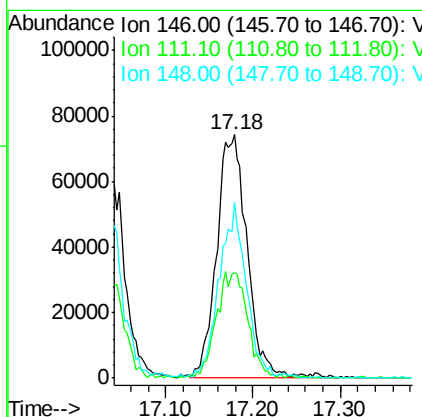
RT: 17.18 min Scan# 4476

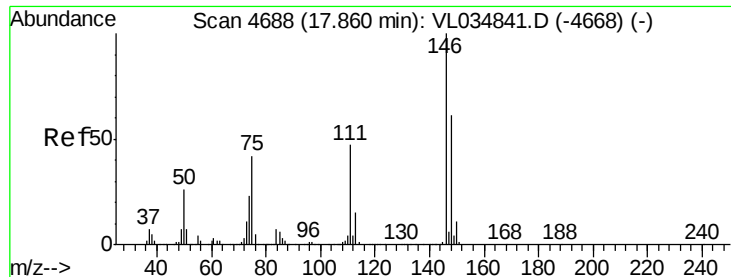
Delta R.T. 0.00 min

Lab File: VL034843.D

Acq: 9 Mar 2020 13:36

Tgt Ion:	146	Resp:	180340
Ion Ratio	Lower	Upper	
146	100		
111	0.0	23.4	70.2#
148	64.3	32.3	96.9





#77

1,2-Dichlorobenzene

Concen: 1.140 ppbv

RT: 17.85 min Scan# 4686

Delta R.T. -0.01 min

Lab File: VL034843.D

Acq: 9 Mar 2020 13:36

Instrument :

MSVOA_L

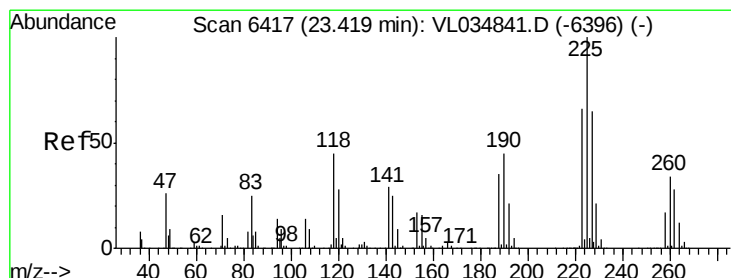
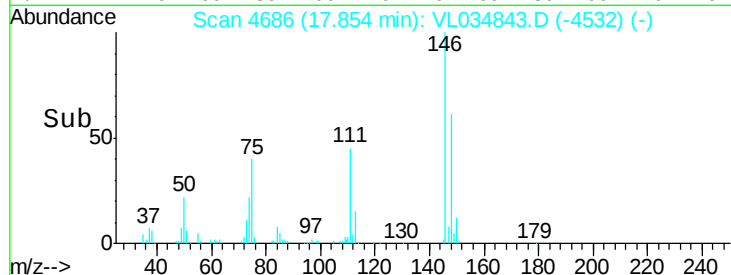
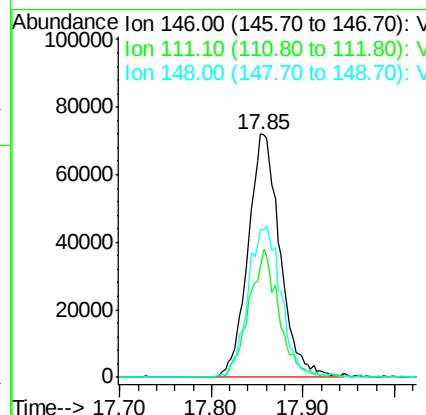
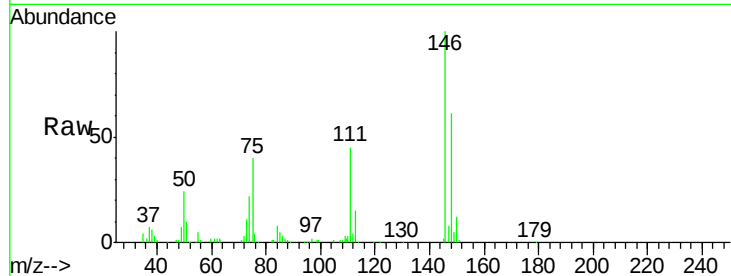
ClientSampleId :

VSTDIC001

Tot Ion:	146	Resp:	174589
Ion Ratio	Lower	Upper	
146	100		
111	49.8	23.8	71.4
148	64.8	31.6	94.8

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#78

Hexachloro-1,3-Butadiene

Concen: 1.102 ppbv

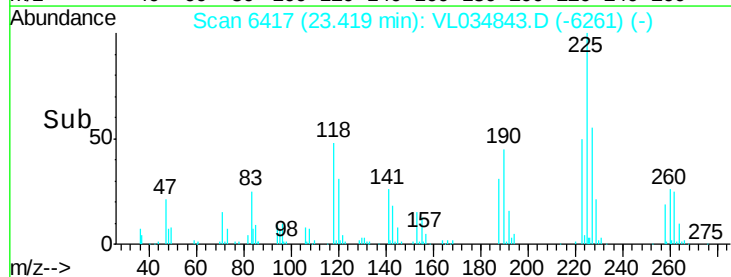
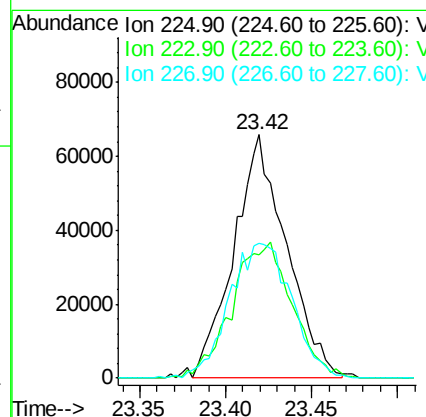
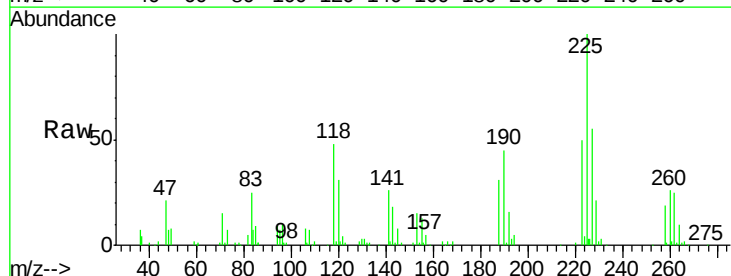
RT: 23.42 min Scan# 6417

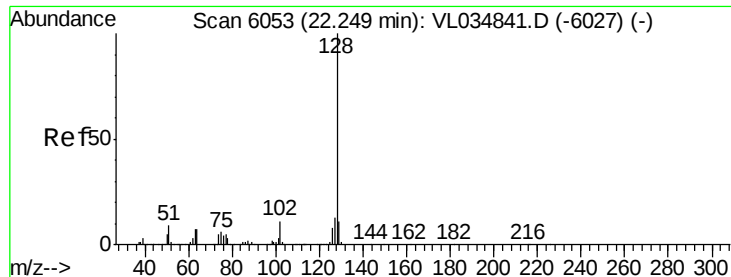
Delta R.T. 0.00 min

Lab File: VL034843.D

Acq: 9 Mar 2020 13:36

Tgt Ion:	225	Resp:	140920
Ion Ratio	Lower	Upper	
225	100		
223	63.8	51.1	76.7
227	65.5	51.8	77.6





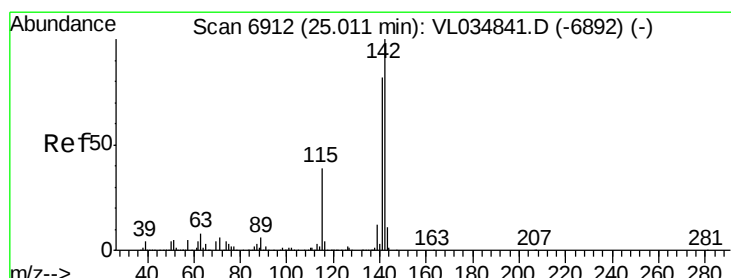
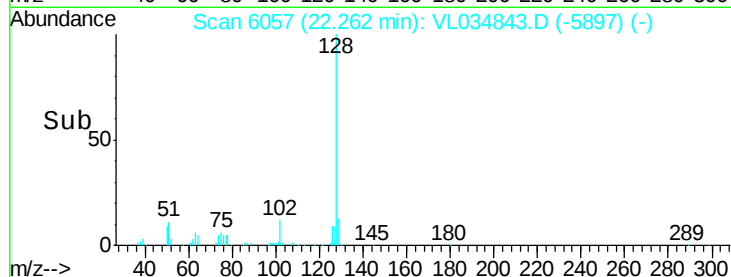
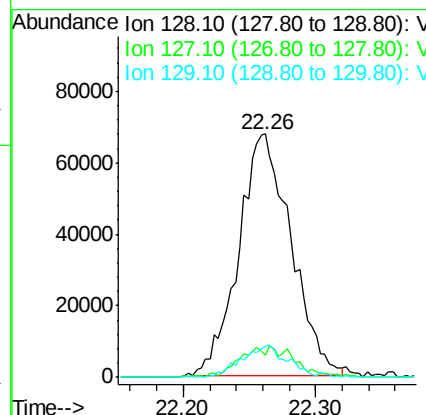
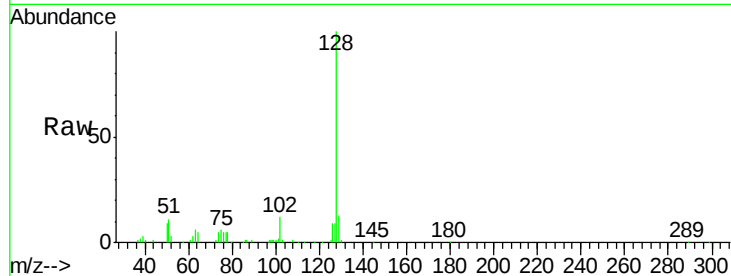
#79
Naphthalene
Concen: 0.909 ppbv
RT: 22.26 min Scan# 6057
Delta R.T. 0.01 min
Lab File: VL034843.D
Acq: 9 Mar 2020 13:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
128	100		
127	8.8	10.2	15.2#
129	12.7	8.6	13.0

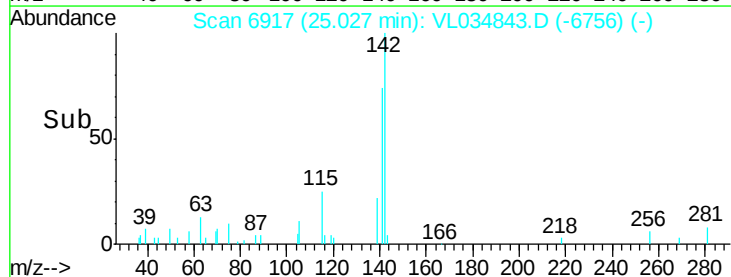
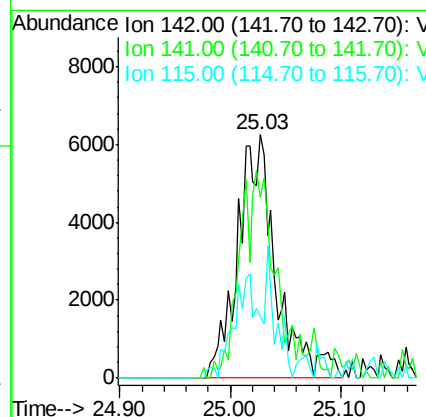
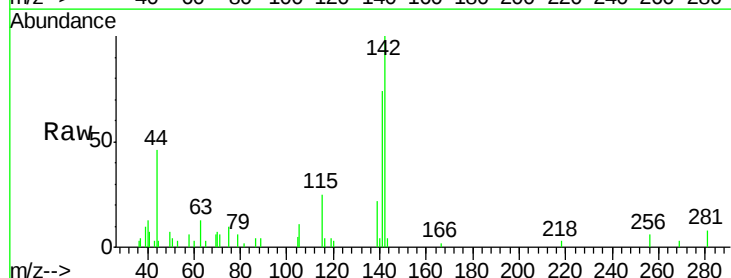
Manual Integrations
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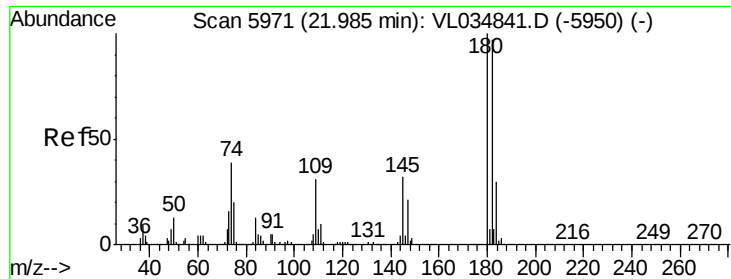
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#80
Naphthalene, 2-methyl-
Concen: 0.310 ppbv
RT: 25.03 min Scan# 6917
Delta R.T. 0.02 min
Lab File: VL034843.D
Acq: 9 Mar 2020 13:36

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.5	68.9	103.3
115	47.1	33.2	49.8





#81
 1,2,4-Trichlorobenzene
 Concen: 0.978 ppbv
 RT: 21.99 min Scan# 5973
 Delta R.T. 0.01 min
 Lab File: VL034843.D
 Acq: 9 Mar 2020 13:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	101.7	76.6	115.0	
184	32.6	25.0	37.4	

Manual Integrations
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