

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091719\
 Data File : VL034176.D
 Acq On : 17 Sep 2019 8:07
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 9/20/2019 12:44:06 AM

Quant Time: Sep 17 08:35:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep 17 2019
 QLast Update : Tue Sep 17 05:58:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1216331	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	2189478	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2352179	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.51	95	2003532	10.33	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	1862460	9.653	ppbv	96
3) Chlorodifluoromethane	2.97	51	1932959	14.053	ppbv	100
4) Chloromethane	3.13	50	1188692	14.030	ppbv	100
5) Vinyl Chloride	3.25	62	1039866	13.461	ppbv	97
6) Bromomethane	3.47	94	508658	13.494	ppbv	94
7) Chloroethane	3.55	64	384438	14.557	ppbv	98
8) Dichlorotetrafluoroethane	3.18	85	2024233	12.574	ppbv	99
9) Propene	2.99	41	990928	13.187	ppbv	100
10) Heptane	8.18	43	2542169	12.974	ppbv	99
11) Trichlorofluoromethane	3.95	101	2179980	13.308	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.50	101	1448102	13.300	ppbv	98
13) Ethanol	3.60	45	190397	12.997	ppbv	99
14) Bromoethene	3.74	108	633270	13.475	ppbv	99
15) Acetone	3.85	43	1933557	13.165	ppbv	99
16) 1,3-Butadiene	3.32	39	1034315	13.969	ppbv	99
17) tert-Butyl alcohol	4.30	59	1567925	14.811	ppbv	100
18) 1,1-Dichloroethene	4.30	96	683320	13.814	ppbv	90
19) Isopropyl Alcohol	3.98	45	1430864	14.556	ppbv	100
20) Methylene Chloride	4.36	84	616286	12.818	ppbv	96
21) Allyl Chloride	4.42	41	1356496	14.079	ppbv	99
22) trans-1,2-Dichloroethene	4.91	96	698373	14.052	ppbv	99
23) Vinyl Acetate	5.10	43	3350907	13.557	ppbv	99
24) 1,1-Dichloroethane	5.03	63	2169628	13.172	ppbv	99
25) Ethyl Acetate	5.71	43	3900558	12.161	ppbv	98
26) Hexane	5.72	57	1711049	12.008	ppbv	97
27) Carbon Disulfide	4.56	76	1864197	14.575	ppbv	99
28) Methyl tert-Butyl Ether	5.05	73	2611056	12.638	ppbv	99
29) Chloroform	5.79	83	2515755	13.083	ppbv	100
30) Cyclohexane	7.18	84	1331839	13.071	ppbv	98
31) cis-1,2-Dichloroethene	5.58	61	1885515	13.800	ppbv	99
32) 1,1,1-Trichloroethane	6.56	97	2418471	13.296	ppbv	99
34) 2-Butanone	5.27	43	2878471	13.449	ppbv	97
35) Carbon Tetrachloride	7.07	117	2404274	13.898	ppbv	98
36) Benzene	6.94	78	3115675	12.463	ppbv	97
37) 1,2-Dichloroethane	6.35	62	2296350	14.496	ppbv	100
38) Trichloroethene	7.90	130	1060787	11.319	ppbv	99
39) 1,2-Dichloropropane	7.67	63	1441163	13.340	ppbv	98
40) 1,4-Dioxane	7.88	88	451106	11.525	ppbv #	94
41) Tetrahydrofuran	6.08	42	1759927	13.807	ppbv	100
42) Bromodichloromethane	7.85	83	2781114	13.717	ppbv	100
43) Methyl Methacrylate	8.07	69	1438109	13.925	ppbv	98

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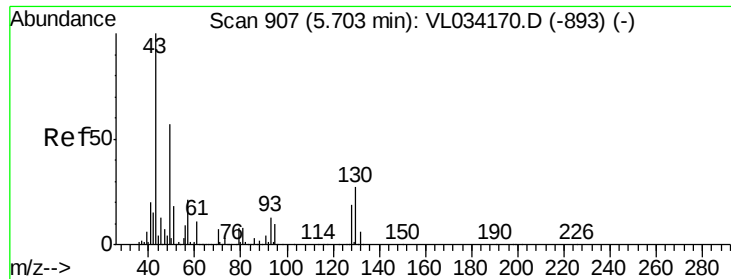
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.92	57	5498084	11.796	ppbv	97
45) t-1,3-Dichloropropene	9.35	75	1941013	15.903	ppbv	100
46) cis-1,3-Dichloropropene	8.77	75	2123942	14.317	ppbv	96
47) 1,1,2-Trichloroethane	9.55	97	1300405	13.292	ppbv	98
48) Dibromochloromethane	10.38	129	2135898	14.434	ppbv	99
49) Bromoform	13.13	173	1837143	14.302	ppbv	99
50) 4-Methyl-2-Pentanone	8.80	43	4109205	12.611	ppbv	98
51) 2-Hexanone	10.20	43	3655126	13.008	ppbv #	98
52) Tetrachloroethene	11.30	164	1003016	11.385	ppbv	94
53) Toluene	9.88	91	3476383	12.557	ppbv	99
54) 1,2-Dibromoethane	10.69	107	1936688	13.238	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.21	131	1365380	13.385	ppbv	99
57) Chlorobenzene	12.23	112	2476475	12.197	ppbv	98
58) Ethyl Benzene	12.80	91	4667157	12.079	ppbv	97
59) m/p-Xylene	13.08	91	7496191m	23.777	ppbv	
60) o-Xylene	13.78	91	3787157	12.044	ppbv	99
61) Styrene	13.62	104	2985052	12.763	ppbv	99
62) Isopropylbenzene	14.76	105	4853285	11.860	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.77	83	2810161	10.947	ppbv	100
64) n-propylbenzene	15.65	120	1321469	12.876	ppbv	94
65) tert-Butylbenzene	16.84	119	4150430m	11.726	ppbv	
66) Benzyl Chloride	17.09	91	2295154	17.930	ppbv	99
67) sec-Butylbenzene	17.39	105	5878186	11.532	ppbv	98
69) p-Isopropyltoluene	17.75	119	4849586	11.885	ppbv	97
70) n-Butylbenzene	18.64	91	5494196	11.784	ppbv	97
71) 2-Chlorotoluene	15.55	91	4093108	12.240	ppbv	98
72) 4-Ethyltoluene	15.93	105	4431377	12.473	ppbv	99
73) 1,3,5-Trimethylbenzene	16.09	105	4205258	12.181	ppbv	96
74) 1,2,4-Trimethylbenzene	16.86	105	4165949	11.678	ppbv	97
75) 1,3-Dichlorobenzene	17.09	146	2353958	12.451	ppbv	100
76) 1,4-Dichlorobenzene	17.24	146	2420643	12.244	ppbv	99
77) 1,2-Dichlorobenzene	17.91	146	2370730	12.266	ppbv	99
78) Hexachloro-1,3-Butadiene	23.47	225	1535409	11.769	ppbv	98
79) Naphthalene	22.32	128	3984307	12.485	ppbv	99
80) Naphthalene, 2-methyl-	25.05	142	1216637	11.257	ppbv	98
81) 1,2,4-Trichlorobenzene	22.05	180	2168570	12.434	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 907

Delta R.T. 0.00 min

Lab File: VL034176.D

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 49 Resp: 1216331

Ion Ratio Lower Upper

49 100

128 34.8 17.6 52.9

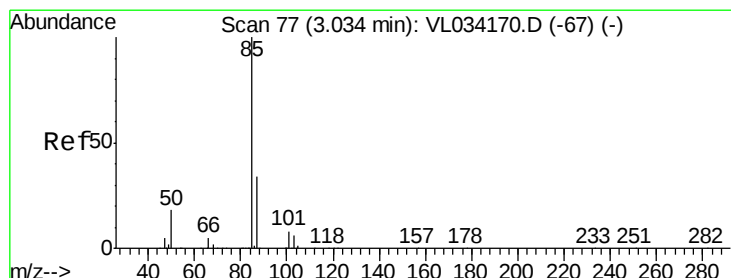
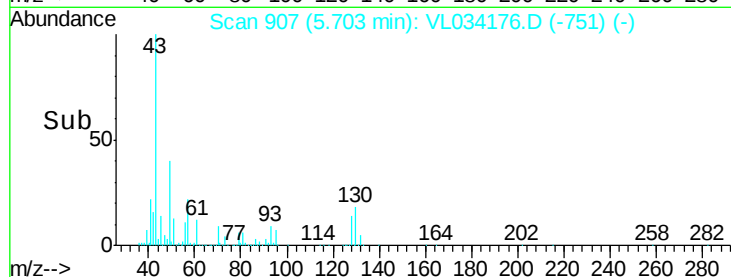
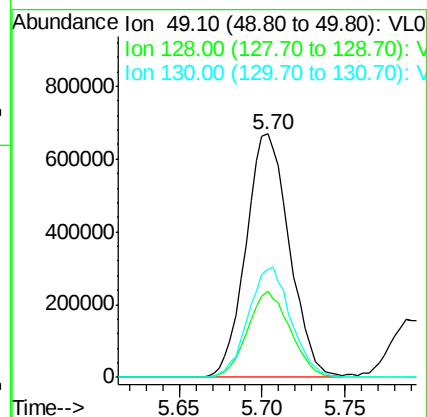
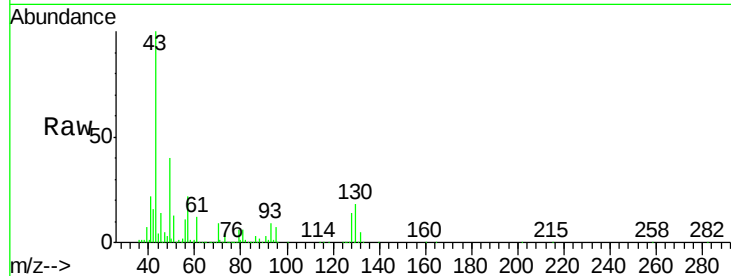
130 44.8 22.3 66.9

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 9.653 ppbv

RT: 3.03 min Scan# 77

Delta R.T. 0.00 min

Lab File: VL034176.D

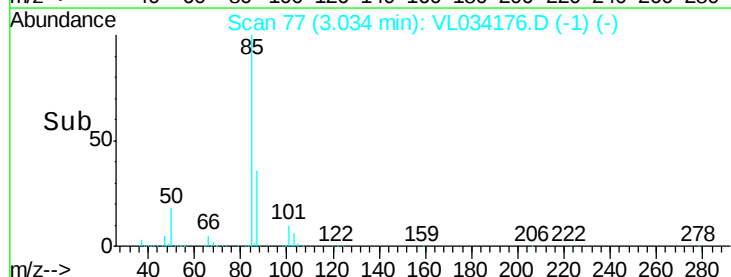
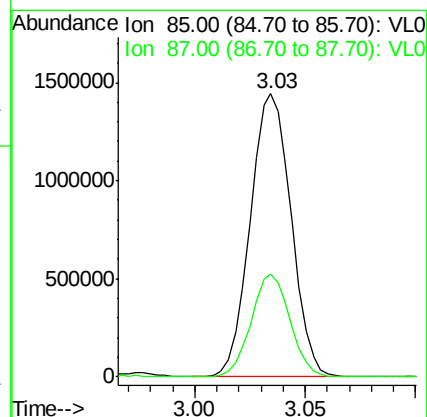
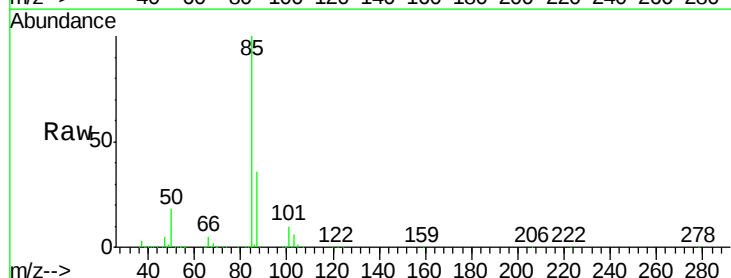
Acq: 17 Sep 2019 8:07

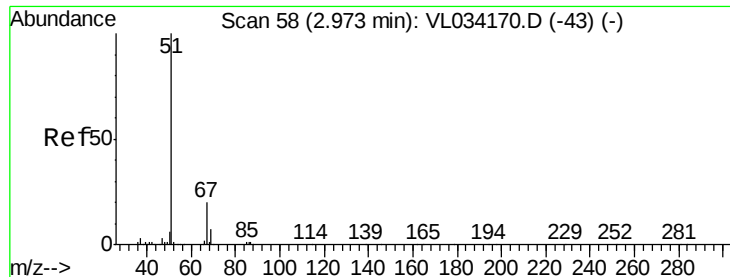
Tgt Ion: 85 Resp: 1862460

Ion Ratio Lower Upper

85 100

87 36.5 27.2 40.8





#3

Chlorodifluoromethane

Concen: 14.053 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.00 min

Lab File: VL034176.D

Acq: 17 Sep 2019 8:07

Tot Ion: 51 Resp: 1932959

Ion Ratio Lower Upper

51 100

67 18.6 14.8 22.2

Instrument :

MSVOA_L

ClientSampleId :

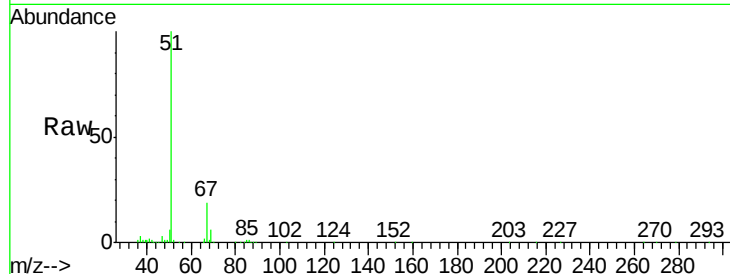
VSTDIC015

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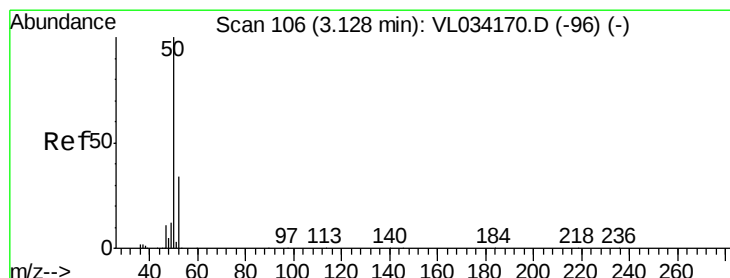
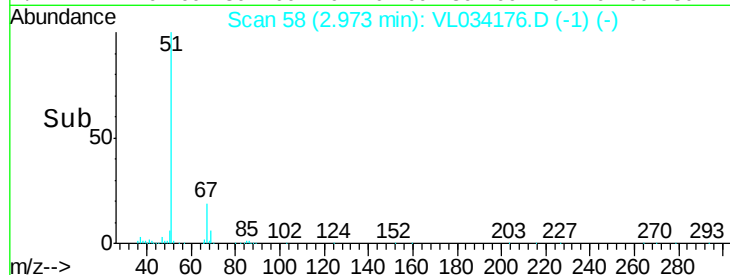
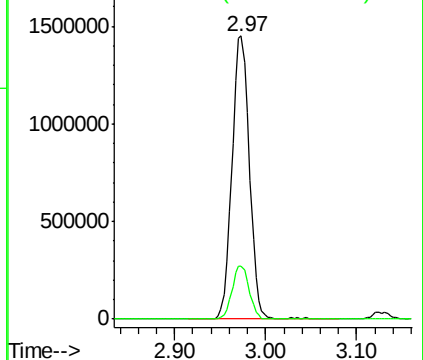
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 14.030 ppbv

RT: 3.13 min Scan# 106

Delta R.T. 0.00 min

Lab File: VL034176.D

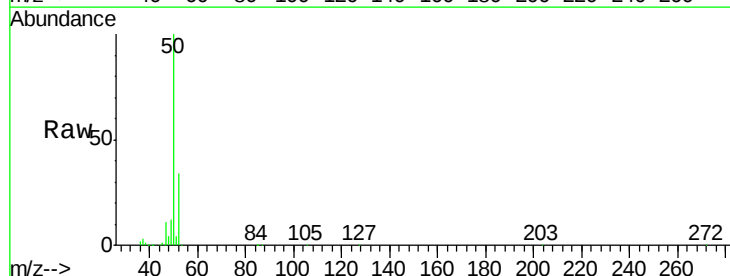
Acq: 17 Sep 2019 8:07

Tgt Ion: 50 Resp: 1188692

Ion Ratio Lower Upper

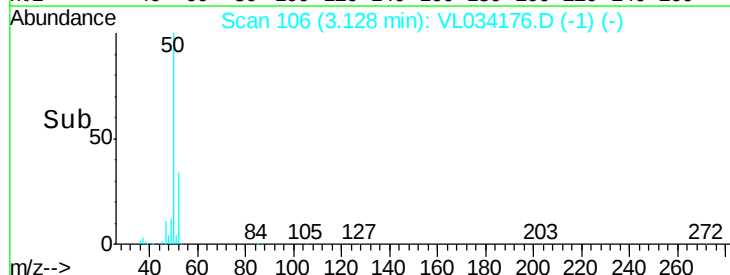
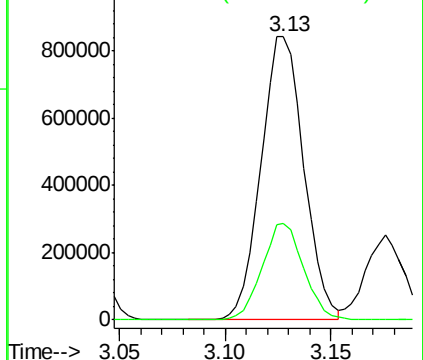
50 100

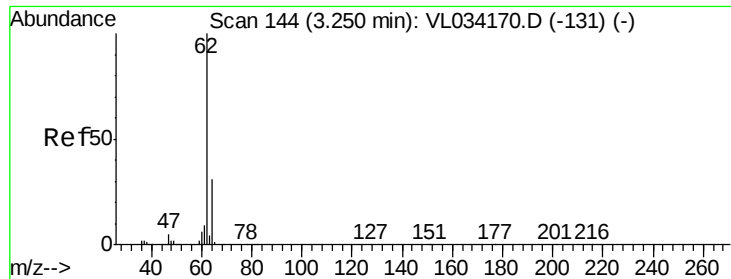
52 34.0 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 13.461 ppbv

RT: 3.25 min Scan# 143

Delta R.T. -0.00 min

Lab File: VL034176.D

Acq: 17 Sep 2019 8:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 1039866

Ion Ratio Lower Upper

62 100

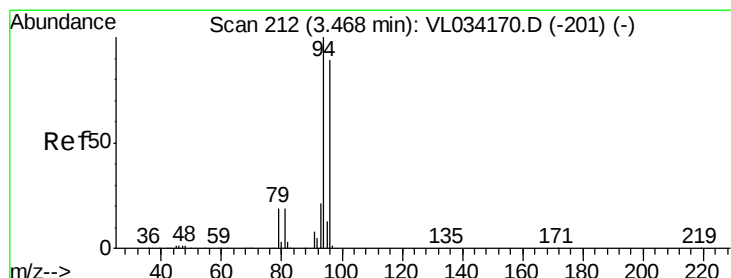
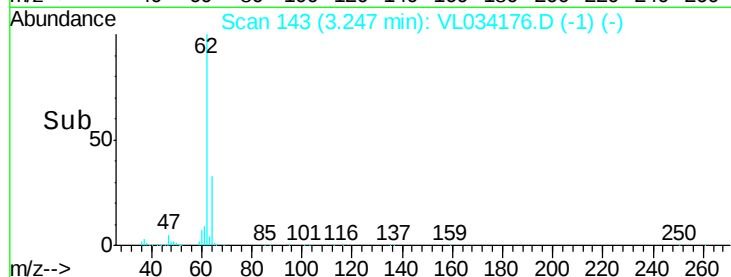
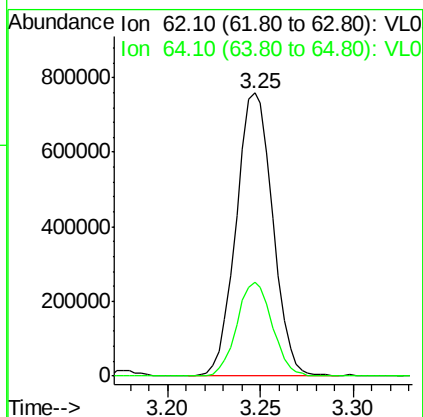
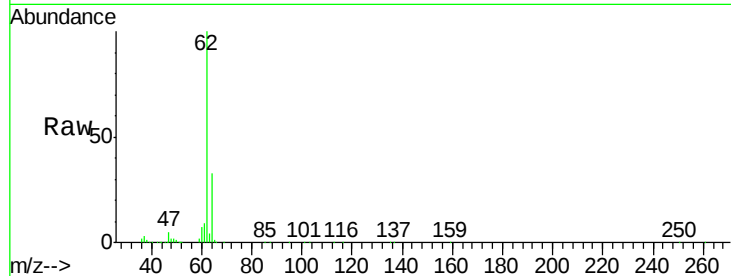
64 33.3 25.2 37.8

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#6

Bromomethane

Concen: 13.494 ppbv

RT: 3.47 min Scan# 212

Delta R.T. 0.00 min

Lab File: VL034176.D

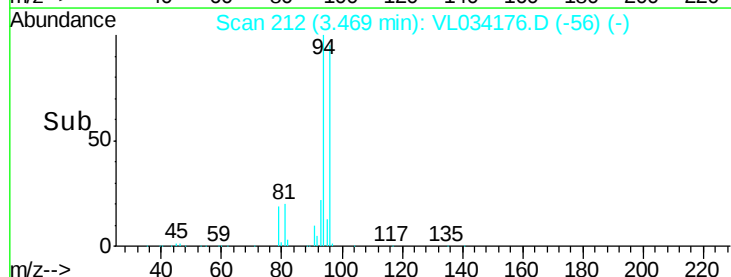
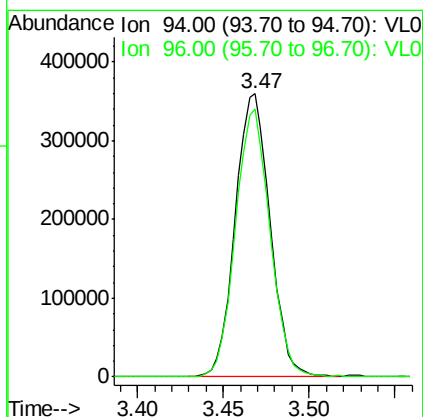
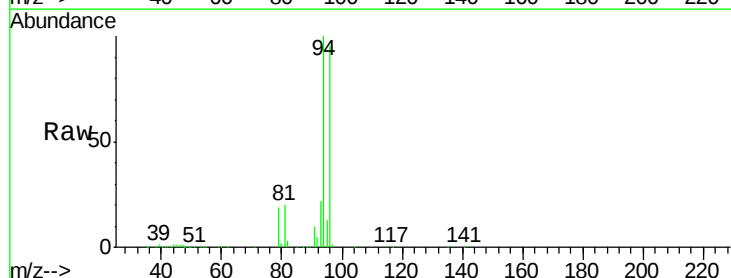
Acq: 17 Sep 2019 8:07

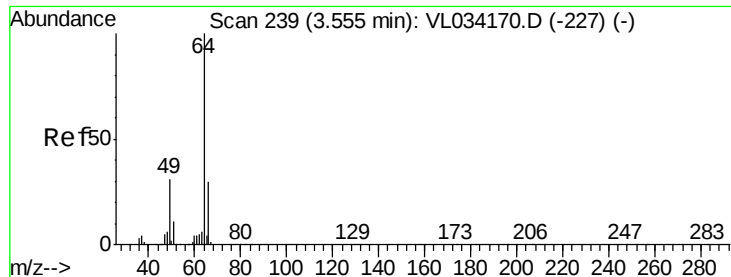
Tgt Ion: 94 Resp: 508658

Ion Ratio Lower Upper

94 100

96 94.8 71.3 106.9





#7

Chloroethane

Concen: 14.557 ppbv

RT: 3.55 min Scan# 238

Delta R.T. -0.00 min

Lab File: VL034176.D

Acq: 17 Sep 2019 8:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 384438

Ion Ratio Lower Upper

64 100

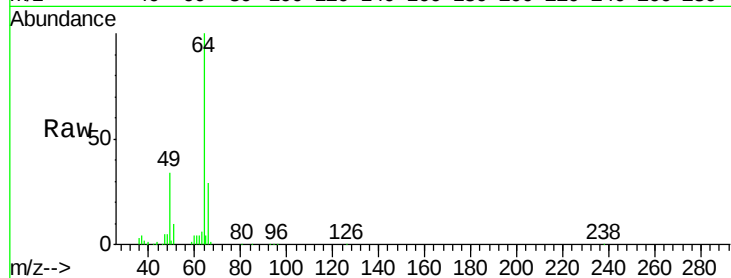
66 29.3 24.2 36.4

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

3.55

300000

250000

200000

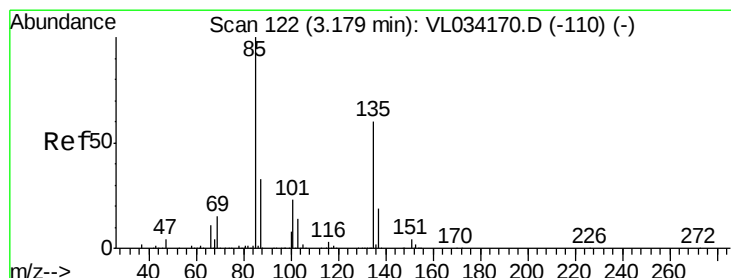
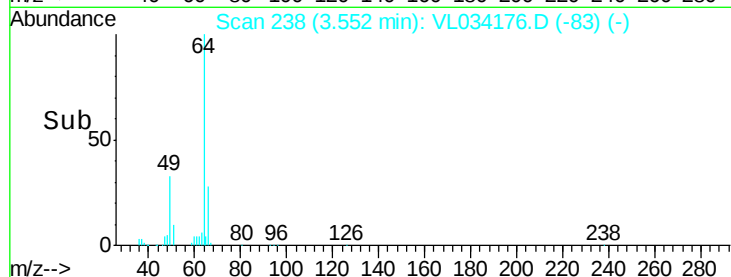
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 12.574 ppbv

RT: 3.18 min Scan# 121

Delta R.T. -0.00 min

Lab File: VL034176.D

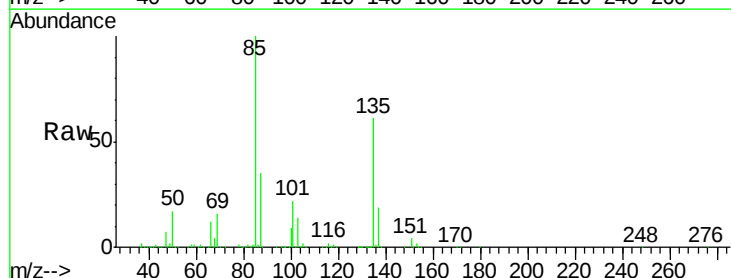
Acq: 17 Sep 2019 8:07

Tgt Ion: 85 Resp: 2024233

Ion Ratio Lower Upper

85 100

135 59.9 47.3 70.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.18

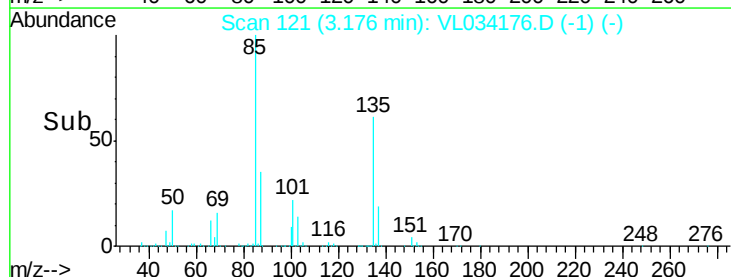
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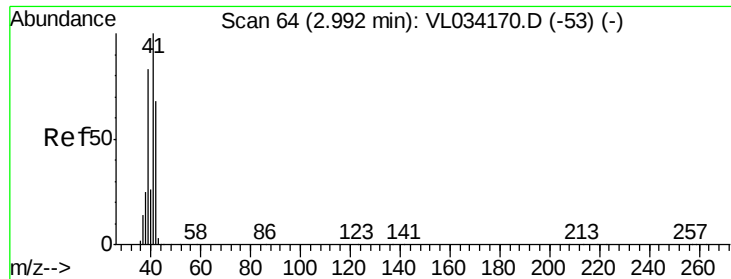
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#9

Propene

Concen: 13.187 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.00 min

Lab File: VL034176.D

Acq: 17 Sep 2019 8:07

Tot Ion: 41 Resp: 990928

Ion Ratio Lower Upper

41 100

42 69.3 55.8 83.6

Instrument :

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ClientSampleId :

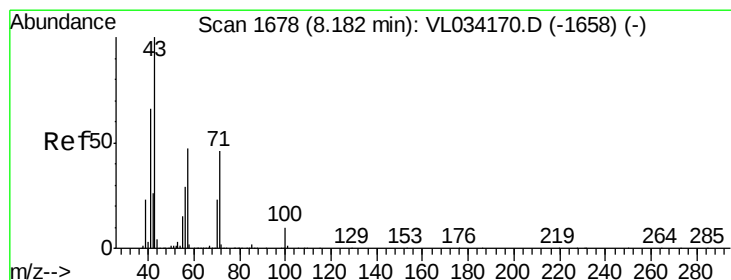
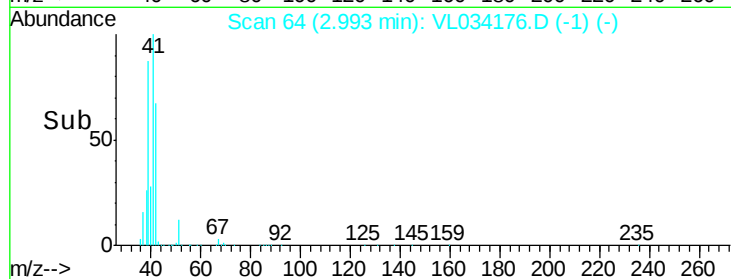
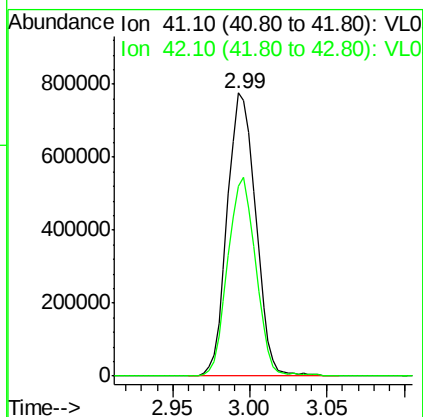
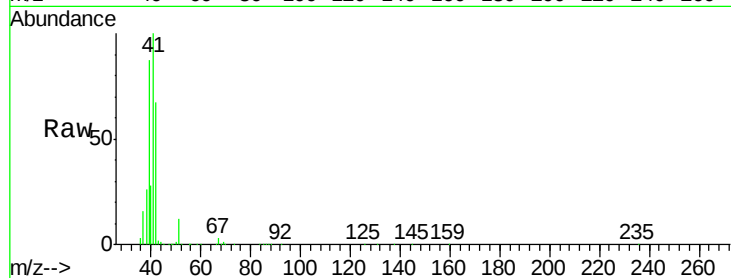
VSTDIC015

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#10

Heptane

Concen: 12.974 ppbv

RT: 8.18 min Scan# 1678

Delta R.T. 0.00 min

Lab File: VL034176.D

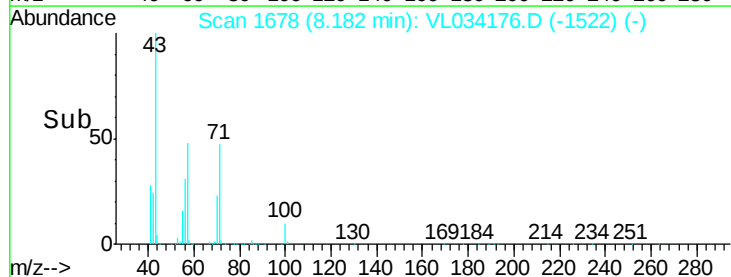
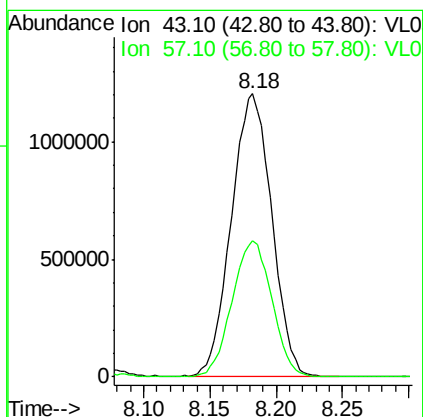
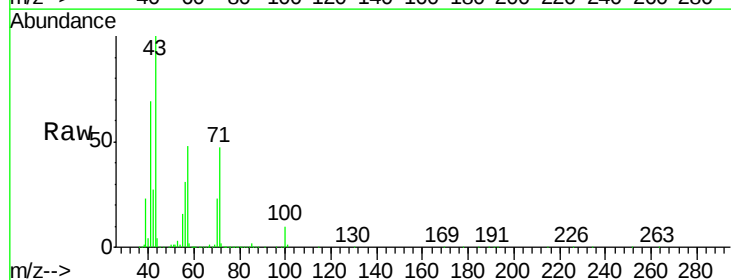
Acq: 17 Sep 2019 8:07

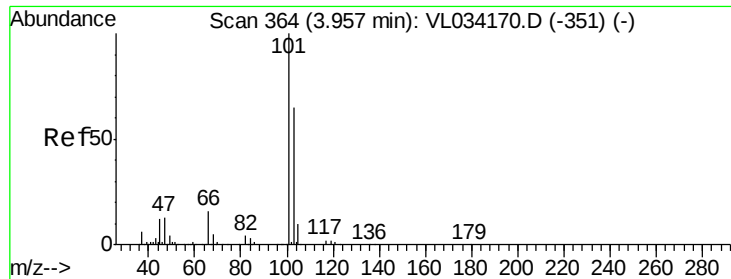
Tgt Ion: 43 Resp: 2542169

Ion Ratio Lower Upper

43 100

57 47.5 37.5 56.3





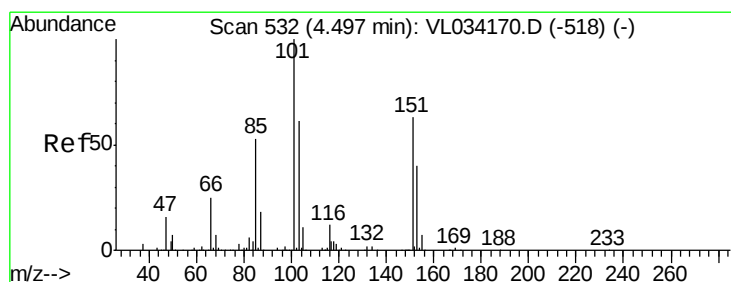
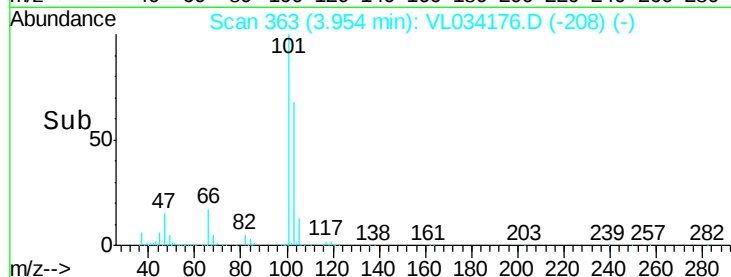
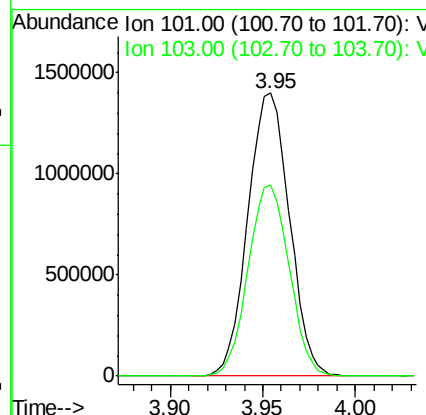
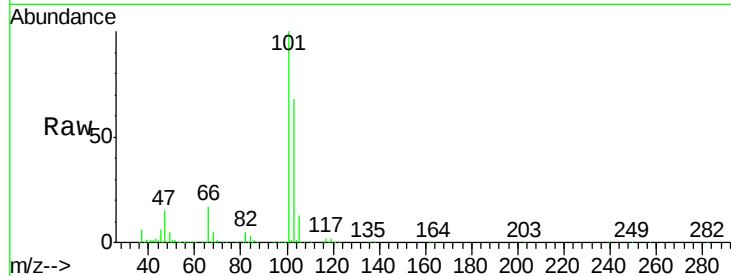
#11
 Trichlorofluoromethane
 Concen: 13.308 ppbv
 RT: 3.95 min Scan# 363
 Delta R.T. -0.00 min
 Lab File: VL034176.D
 Acq: 17 Sep 2019 8:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:101 Resp: 2179980
 Ion Ratio Lower Upper
 101 100
 103 67.8 52.1 78.1

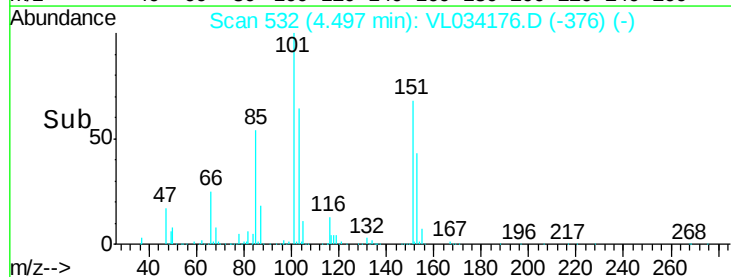
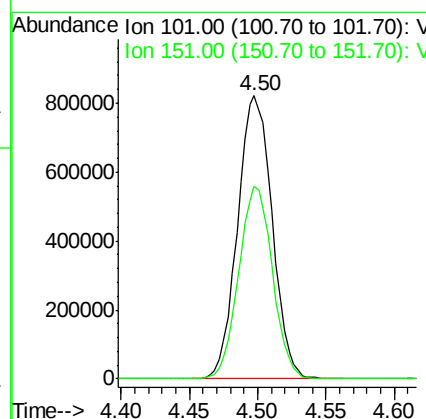
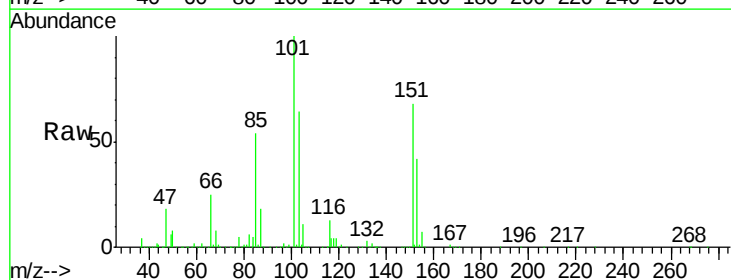
Manual Integrations
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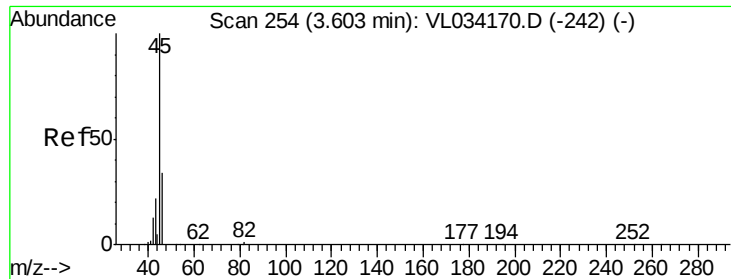
MMDadoda
 9/20/2019 12:44:06 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 13.300 ppbv
 RT: 4.50 min Scan# 532
 Delta R.T. 0.00 min
 Lab File: VL034176.D
 Acq: 17 Sep 2019 8:07

Tgt Ion:101 Resp: 1448102
 Ion Ratio Lower Upper
 101 100
 151 66.3 51.8 77.8





#13

Ethanol

Concen: 12.997 ppbv

RT: 3.60 min Scan# 254

Delta R.T. 0.00 min

Lab File: VL034176.D

Acq: 17 Sep 2019 8:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 45 Resp: 190397

Ion Ratio Lower Upper

45 100

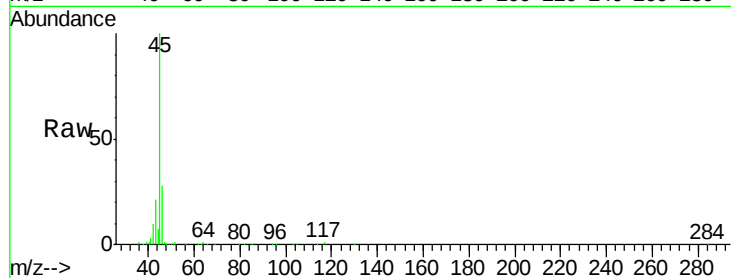
46 38.3 15.5 61.9

Manual Integrations

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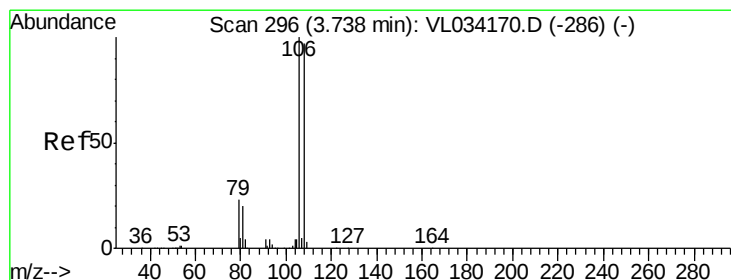
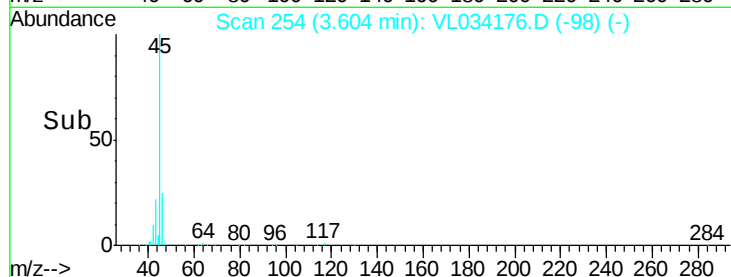
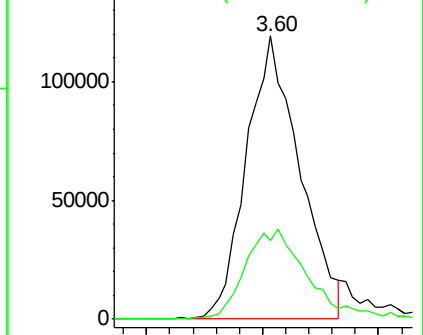
MMDadoda

9/20/2019 12:44:06 AM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 13.475 ppbv

RT: 3.74 min Scan# 296

Delta R.T. 0.00 min

Lab File: VL034176.D

Acq: 17 Sep 2019 8:07

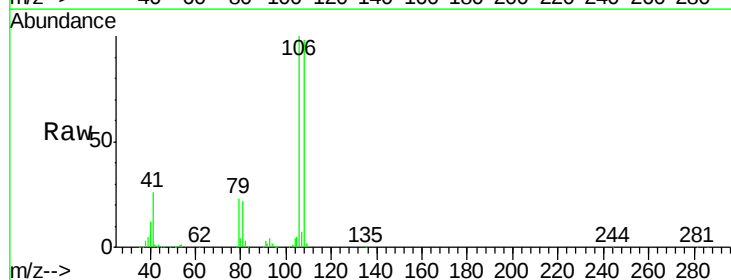
Tgt Ion: 108 Resp: 633270

Ion Ratio Lower Upper

108 100

106 106.6 86.2 129.4

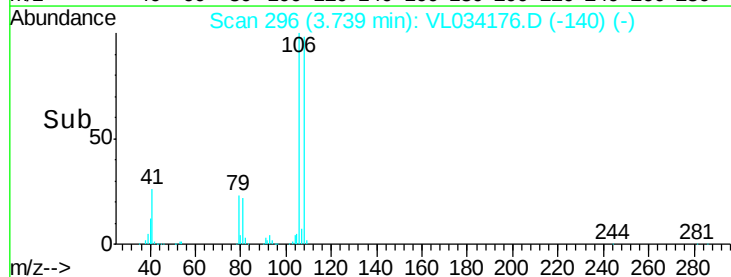
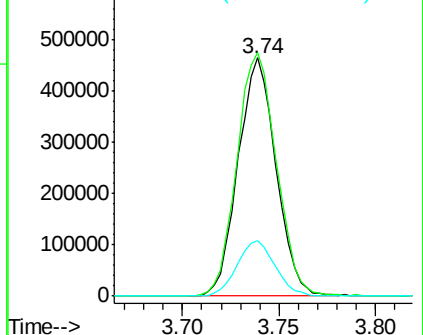
79 23.5 18.6 27.8

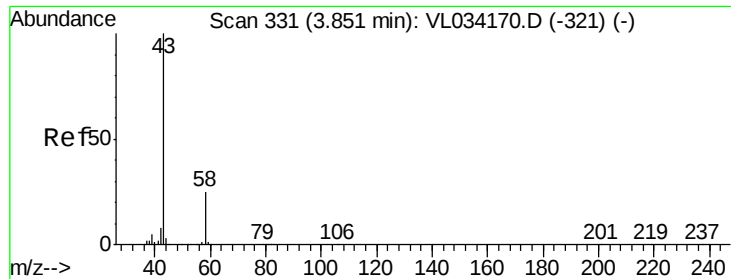


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





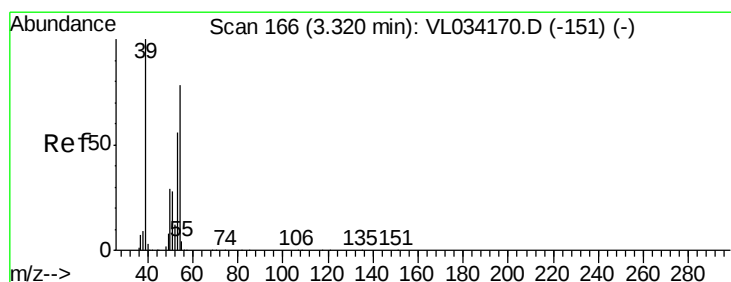
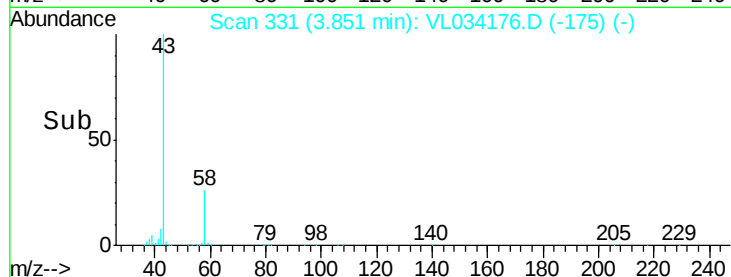
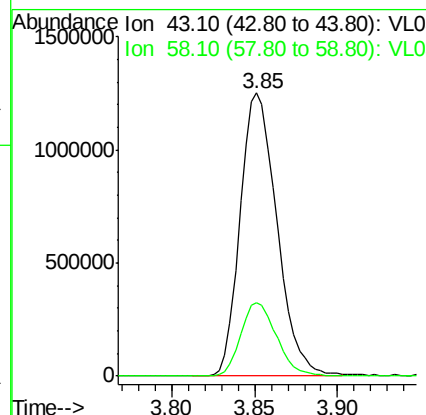
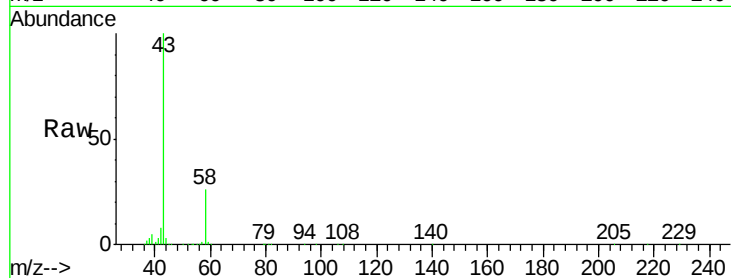
#15
Acetone
Concen: 13.165 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.00 min
Lab File: VL034176.D
Acq: 17 Sep 2019 8:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 1933557
Ion Ratio Lower Upper
43 100
58 25.2 20.5 30.7

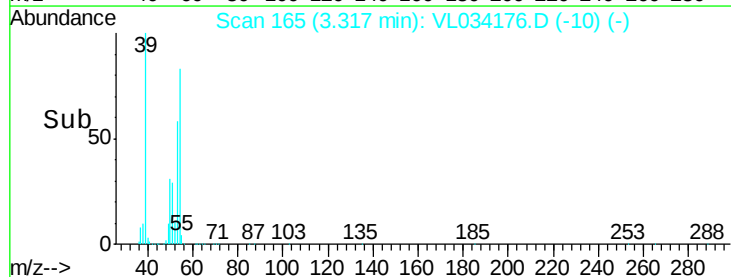
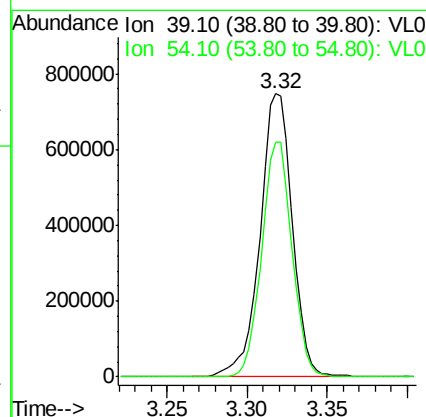
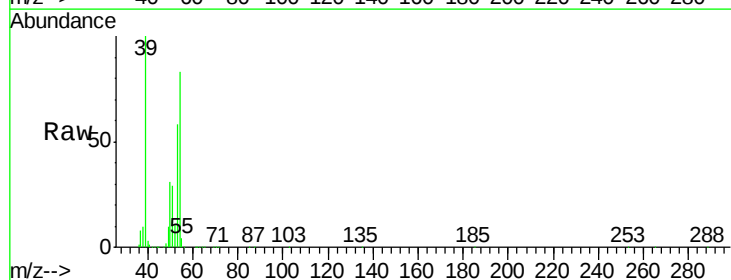
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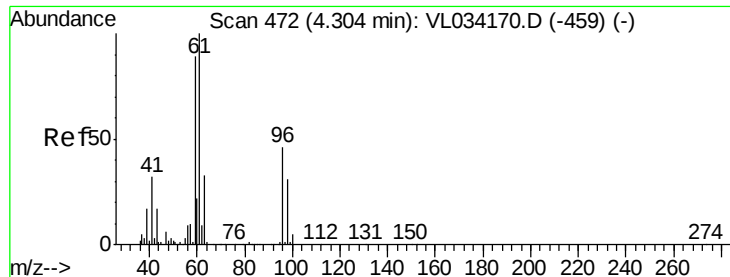
MMDadoda
9/20/2019 12:44:06 AM



#16
1,3-Butadiene
Concen: 13.969 ppbv
RT: 3.32 min Scan# 166
Delta R.T. -0.00 min
Lab File: VL034176.D
Acq: 17 Sep 2019 8:07

Tgt Ion: 39 Resp: 1034315
Ion Ratio Lower Upper
39 100
54 78.4 63.4 95.0





#17

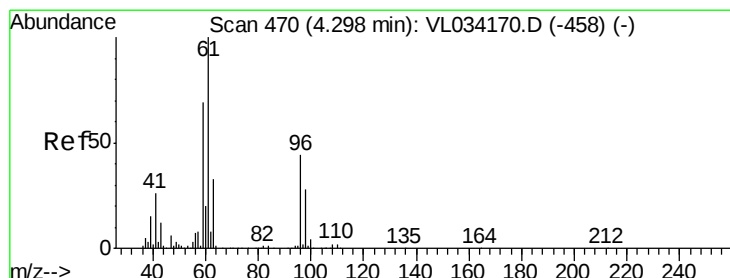
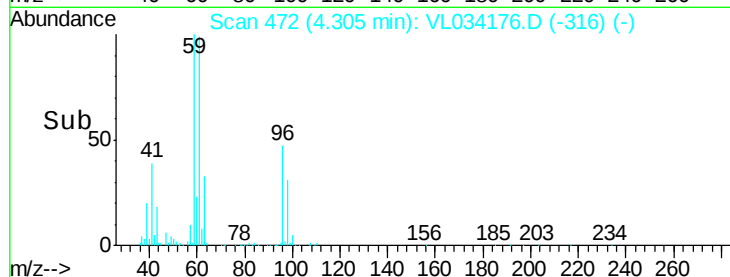
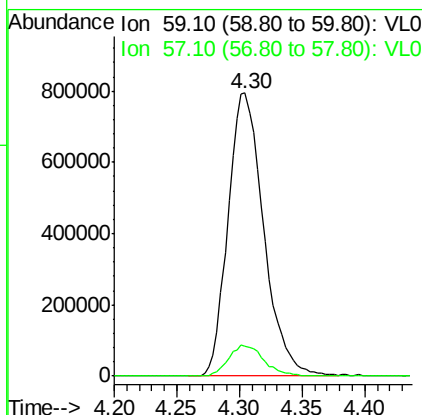
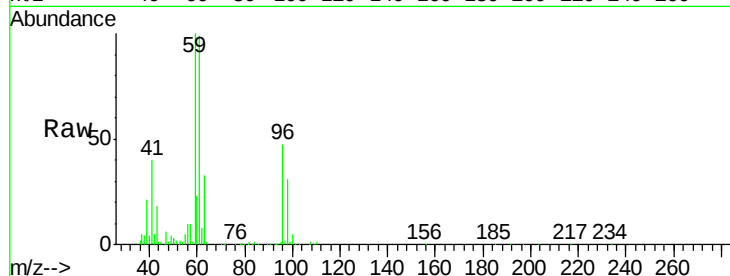
tert-Butyl alcohol
 Concen: 14.811 ppbv
 RT: 4.30 min Scan# 472
 Delta R.T. 0.00 min
 Lab File: VL034176.D
 Acq: 17 Sep 2019 8:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 59 Resp: 1567925
 Ion Ratio Lower Upper
 59 100
 57 11.1 8.7 13.1

Manual Integrations
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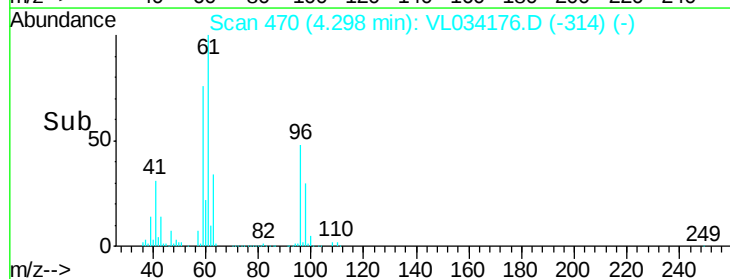
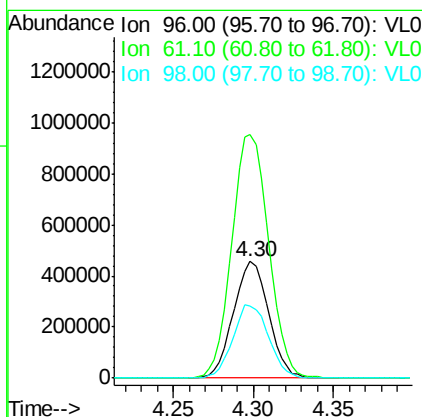
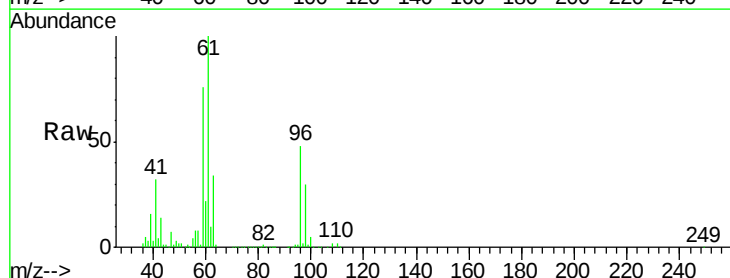
MMDadoda
 9/20/2019 12:44:06 AM

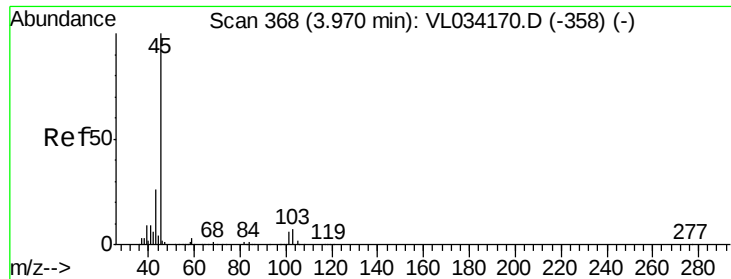


#18

1,1-Dichloroethene
 Concen: 13.814 ppbv
 RT: 4.30 min Scan# 470
 Delta R.T. 0.00 min
 Lab File: VL034176.D
 Acq: 17 Sep 2019 8:07

Tgt Ion: 96 Resp: 683320
 Ion Ratio Lower Upper
 96 100
 61 209.1 183.3 274.9
 98 62.4 51.4 77.2





#19

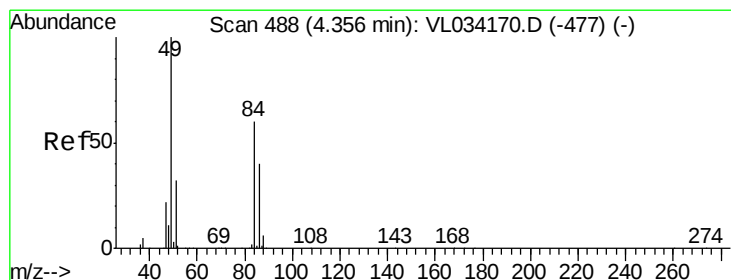
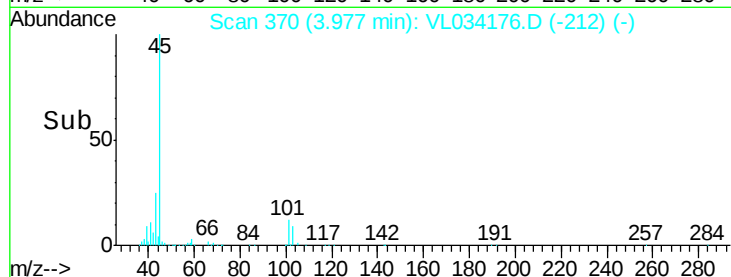
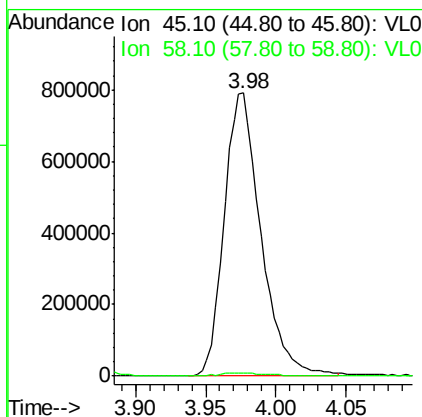
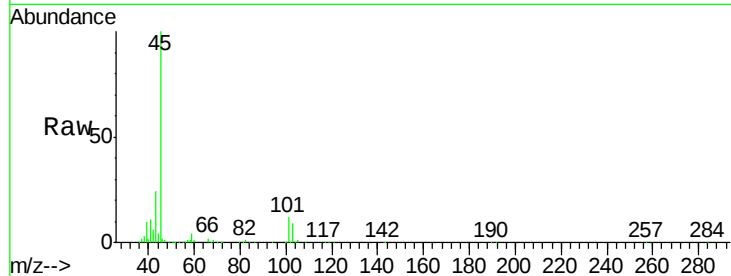
Isopropyl Alcohol
 Concen: 14.556 ppbv
 RT: 3.98 min Scan# 370
 Delta R.T. 0.01 min
 Lab File: VL034176.D
 Acq: 17 Sep 2019 8:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 45 Resp: 1430864
 Ion Ratio Lower Upper
 45 100
 58 1.8 1.4 2.0

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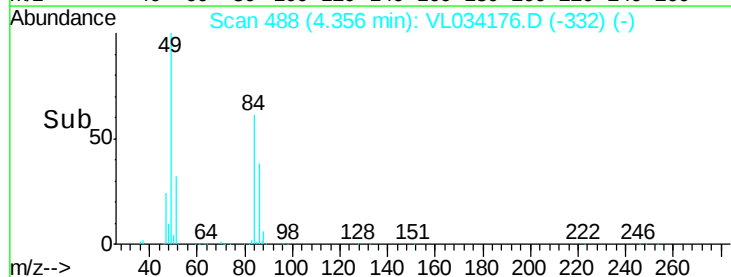
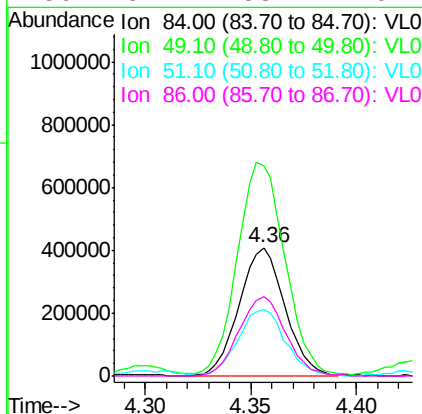
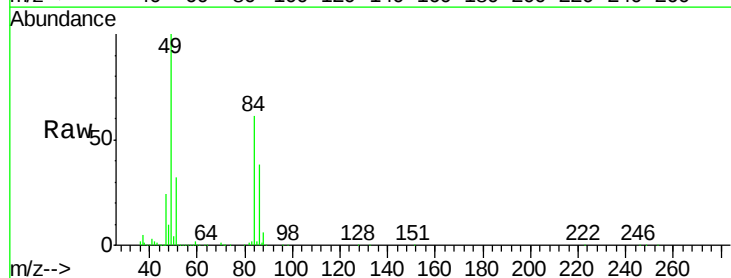
MMDadoda
 9/20/2019 12:44:06 AM

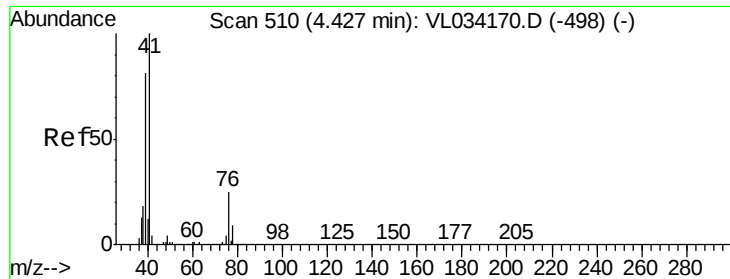


#20

Methylene Chloride
 Concen: 12.818 ppbv
 RT: 4.36 min Scan# 488
 Delta R.T. 0.00 min
 Lab File: VL034176.D
 Acq: 17 Sep 2019 8:07

Tgt Ion: 84 Resp: 616286
 Ion Ratio Lower Upper
 84 100
 49 162.6 133.8 200.8
 51 51.0 43.6 65.4
 86 62.2 53.1 79.7





#21

Allvl Chloride

Concen: 14.079 ppbv

RT: 4.42 min Scan# 509

Delta R.T. -0.00 min

Lab File: VL034176.D

Acq: 17 Sep 2019 8:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 1356496

Ion Ratio Lower Upper

41 100

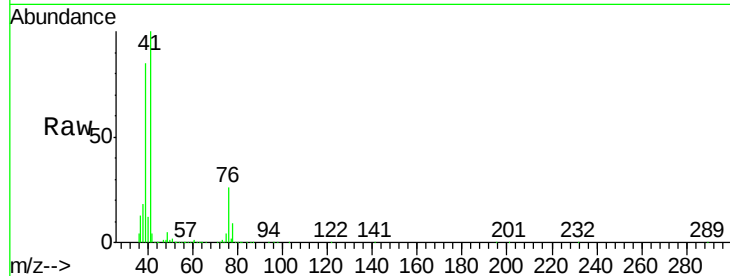
76 27.0 21.8 32.6

39 82.0 64.8 97.2

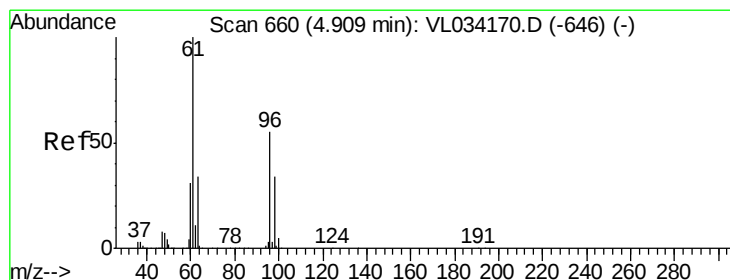
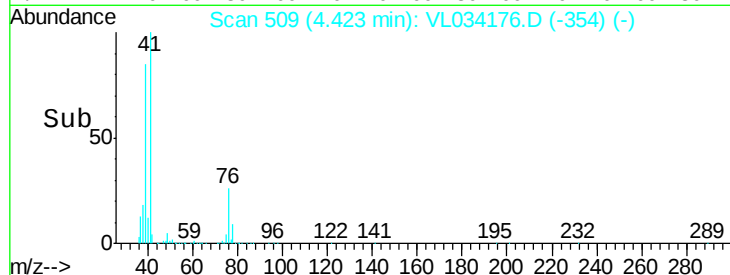
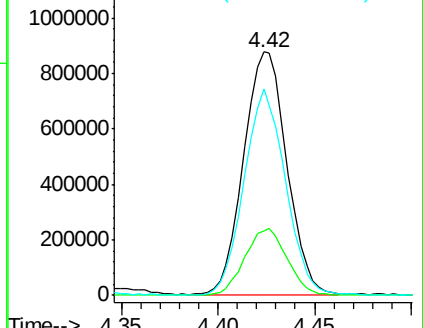
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Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 14.052 ppbv

RT: 4.91 min Scan# 659

Delta R.T. -0.00 min

Lab File: VL034176.D

Acq: 17 Sep 2019 8:07

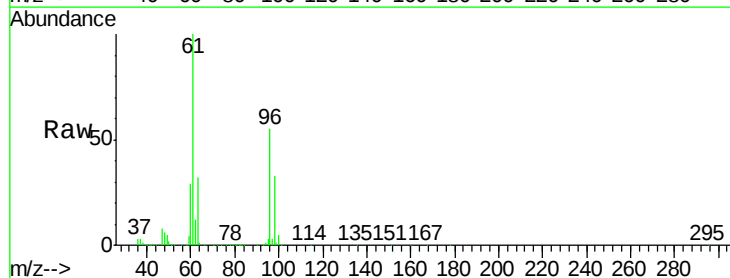
Tgt Ion: 96 Resp: 698373

Ion Ratio Lower Upper

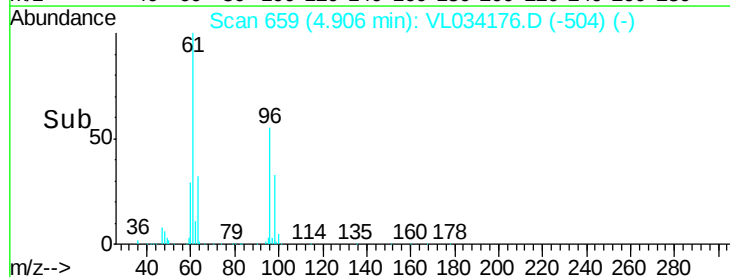
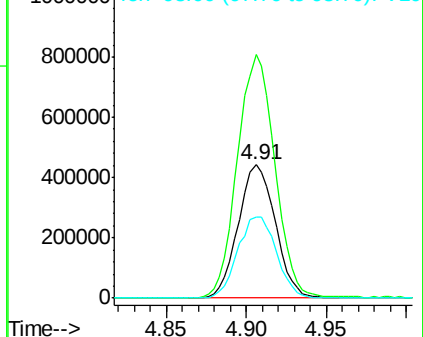
96 100

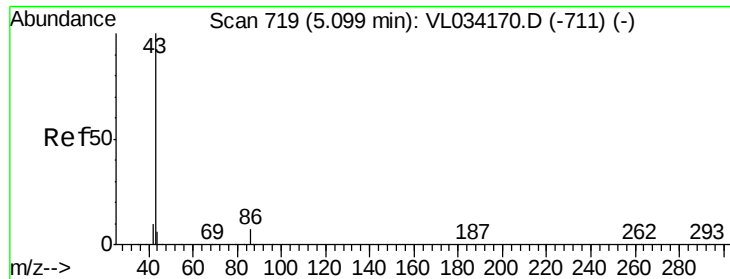
61 183.1 145.5 218.3

98 60.5 49.9 74.9



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 13.557 ppbv

RT: 5.10 min Scan# 719

Delta R.T. 0.00 min

Lab File: VL034176.D

Acq: 17 Sep 2019 8:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 3350907

Ion Ratio Lower Upper

43 100

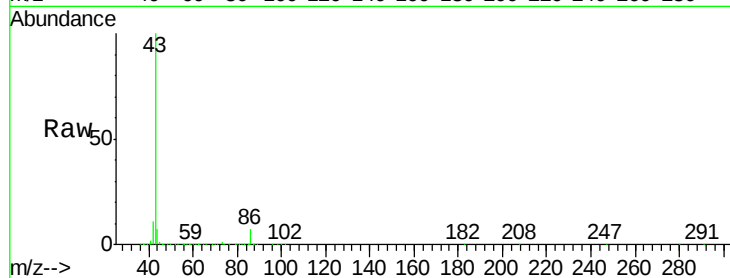
86 7.0 5.1 7.7

42 11.1 8.6 12.8

44 6.4 4.7 7.1

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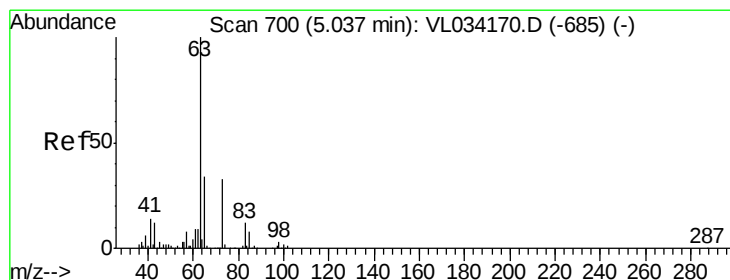
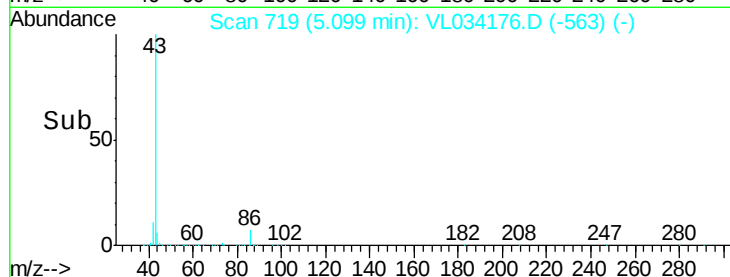
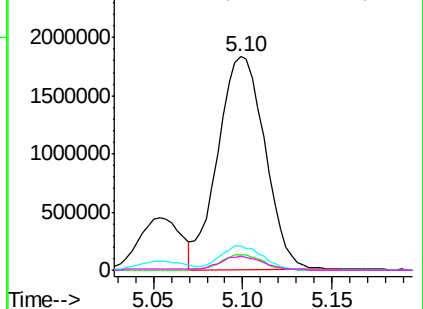


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 13.172 ppbv

RT: 5.03 min Scan# 699

Delta R.T. -0.00 min

Lab File: VL034176.D

Acq: 17 Sep 2019 8:07

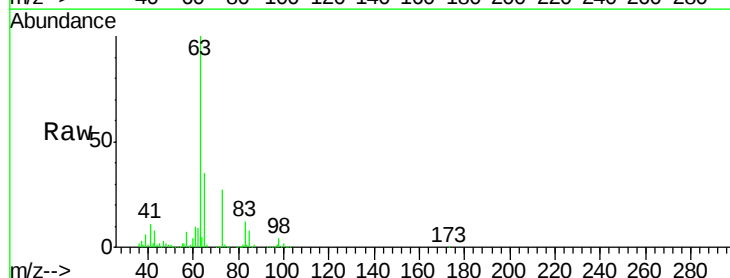
Tgt Ion: 63 Resp: 2169628

Ion Ratio Lower Upper

63 100

98 3.9 1.8 5.3

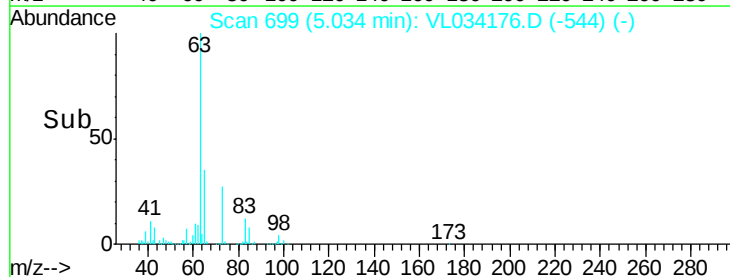
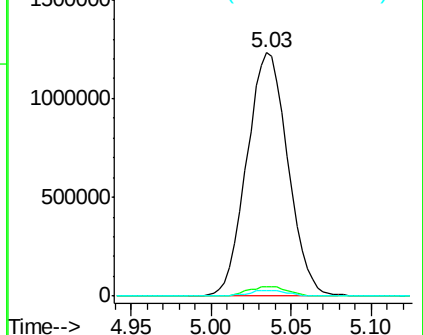
100 2.2 1.0 3.0

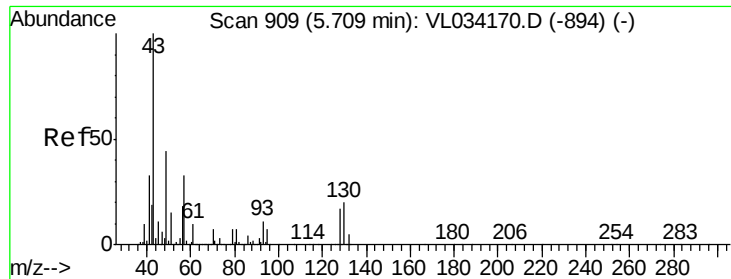


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





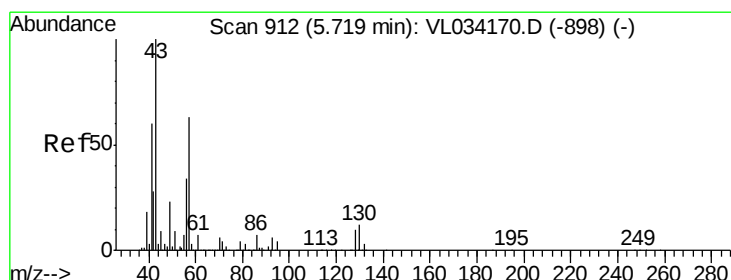
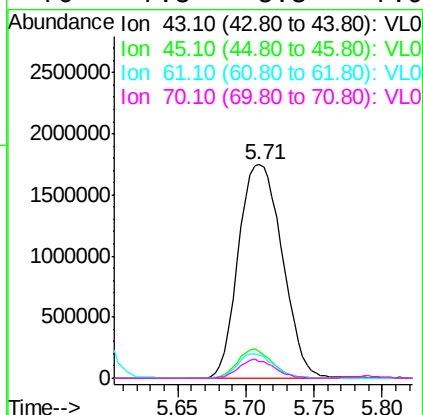
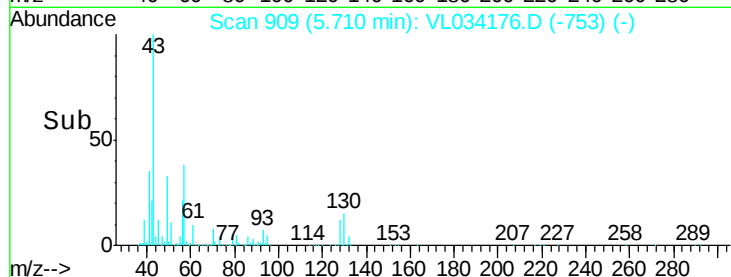
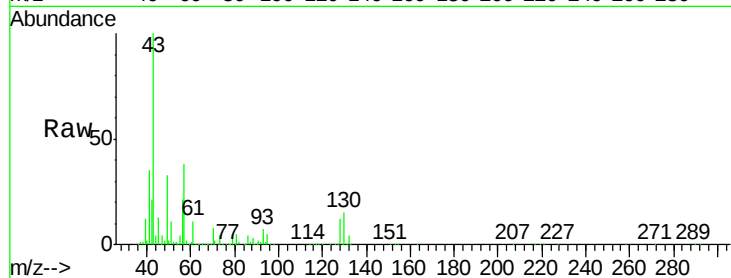
#25
Ethyl Acetate
Concen: 12.161 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.00 min
Lab File: VL034176.D
Acq: 17 Sep 2019 8:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:	43	Resp:	3900558
Ion	Ratio	Lower	Upper
43	100		
45	11.0	8.4	12.6
61	9.5	7.2	10.8
70	7.3	5.3	7.9

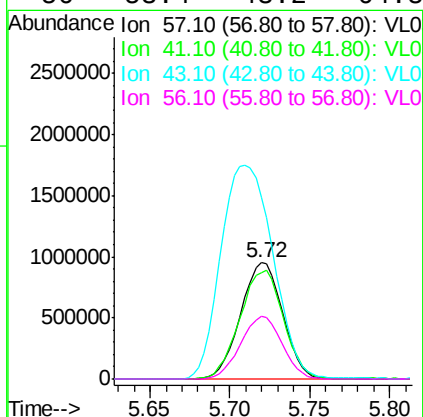
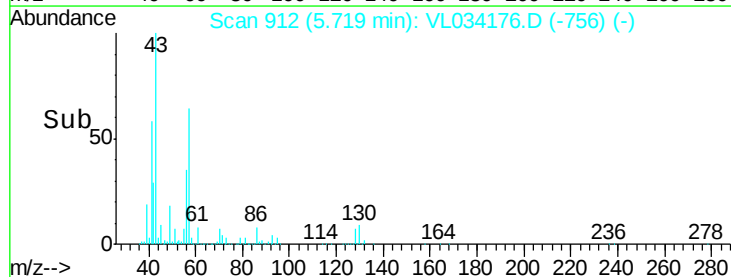
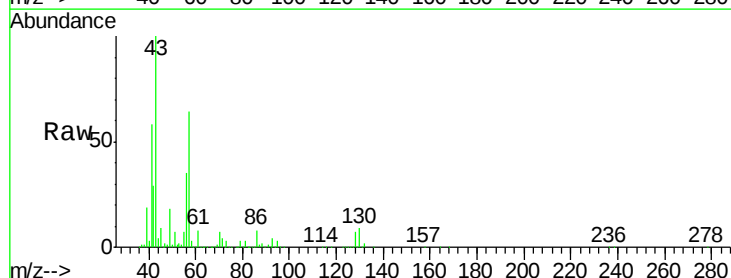
Manual Integrations
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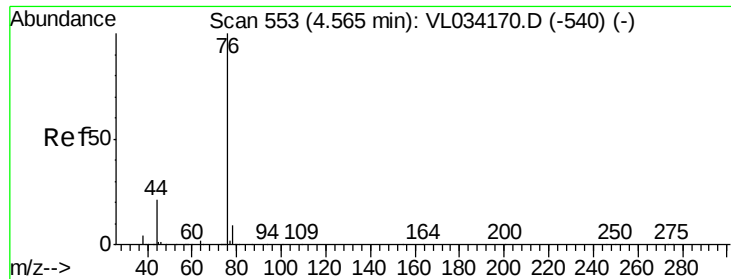
MMDadoda
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#26
Hexane
Concen: 12.008 ppbv
RT: 5.72 min Scan# 912
Delta R.T. 0.00 min
Lab File: VL034176.D
Acq: 17 Sep 2019 8:07

Tgt Ion:	57	Resp:	1711049
Ion	Ratio	Lower	Upper
57	100		
41	96.5	78.5	117.7
43	229.1	189.5	284.3
56	53.4	43.2	64.8





#27

Carbon Disulfide

Concen: 14.575 ppbv

RT: 4.56 min Scan# 553

Delta R.T. 0.00 min

Lab File: VL034176.D

Acq: 17 Sep 2019 8:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 1864197

Ion Ratio Lower Upper

76 100

44 22.7 17.6 26.4

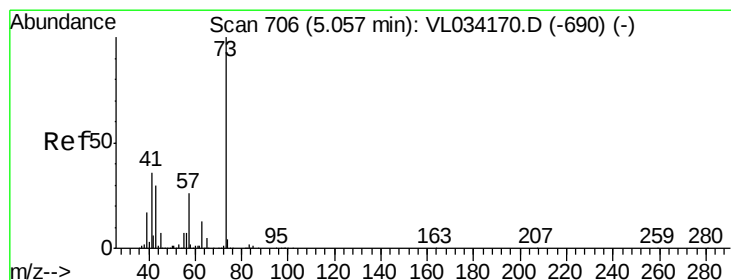
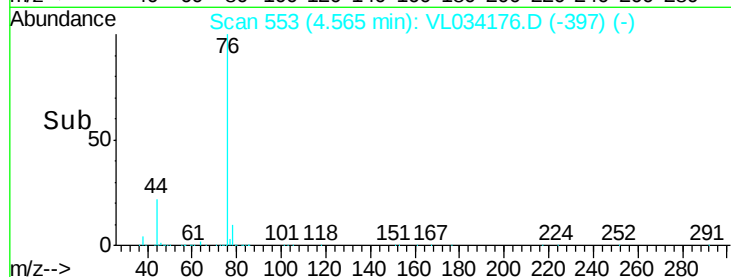
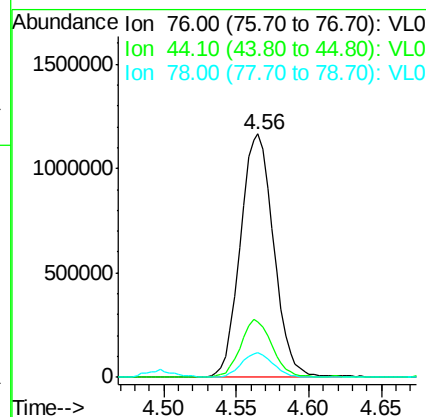
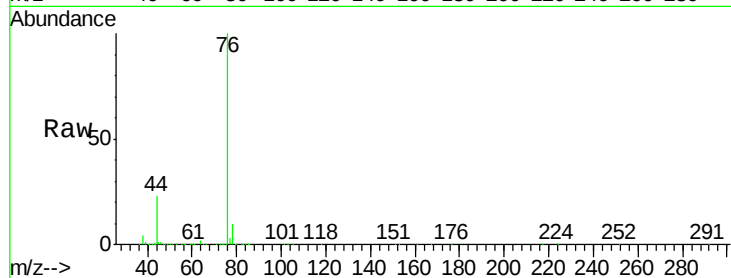
78 9.6 7.6 11.4

Manual Integrations

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#28

Methyl tert-Butyl Ether

Concen: 12.638 ppbv

RT: 5.05 min Scan# 705

Delta R.T. -0.00 min

Lab File: VL034176.D

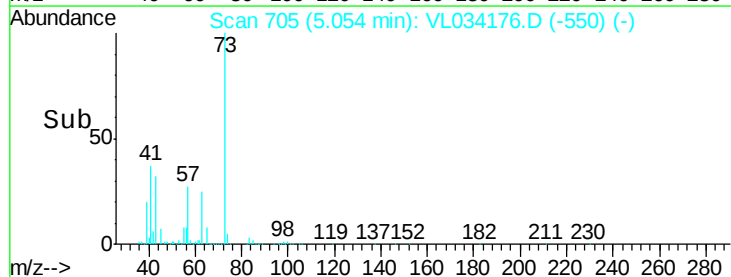
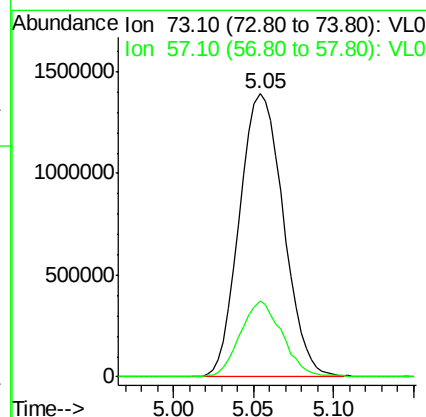
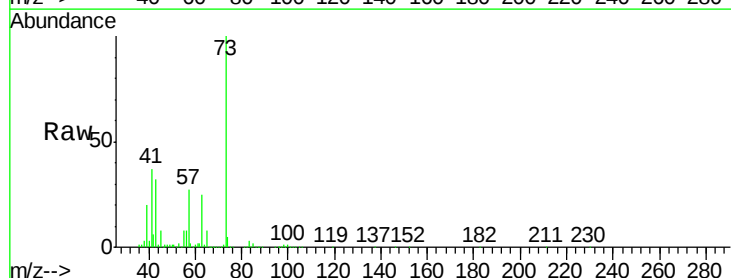
Acq: 17 Sep 2019 8:07

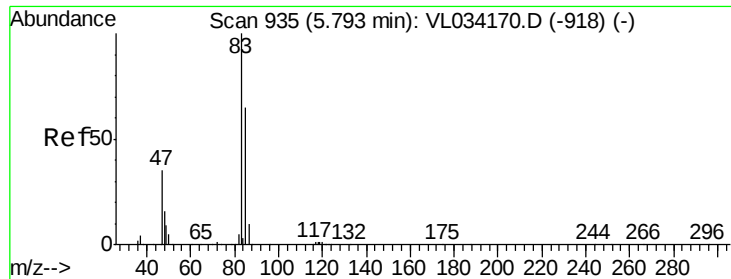
Tgt Ion: 73 Resp: 2611056

Ion Ratio Lower Upper

73 100

57 25.7 20.2 30.2





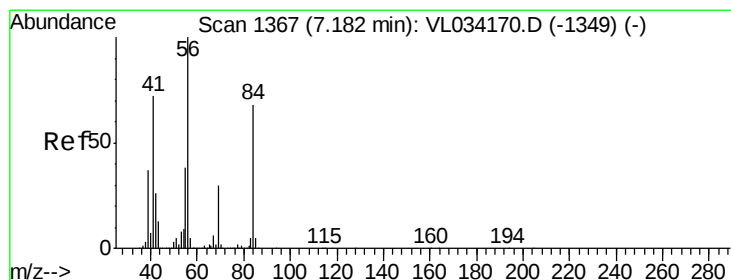
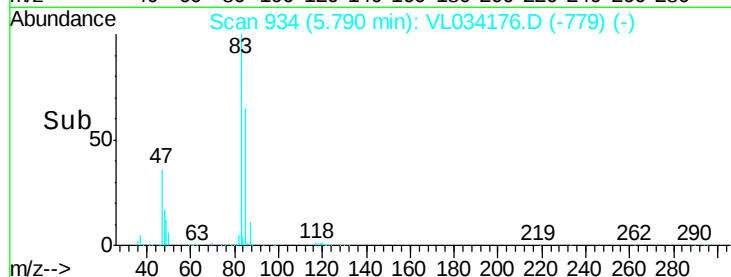
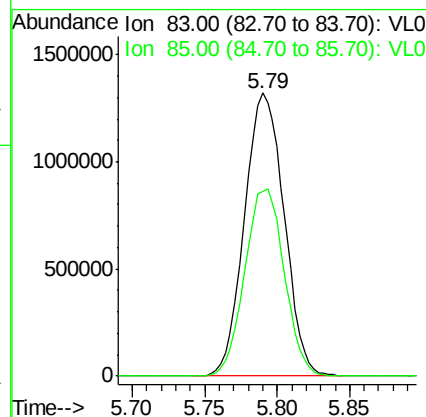
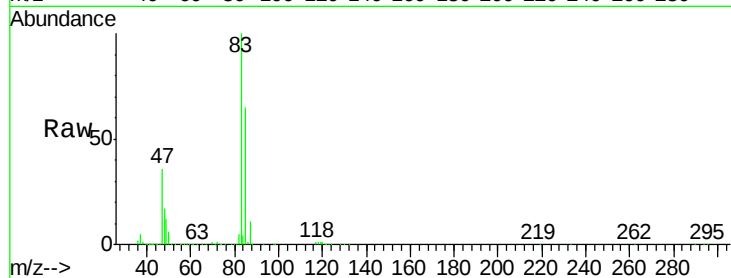
#29
Chloroform
Concen: 13.083 ppbv
RT: 5.79 min Scan# 934
Delta R.T. -0.00 min
Lab File: VL034176.D
Acq: 17 Sep 2019 8:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 2515755
Ion Ratio Lower Upper
83 100
85 65.4 52.3 78.5

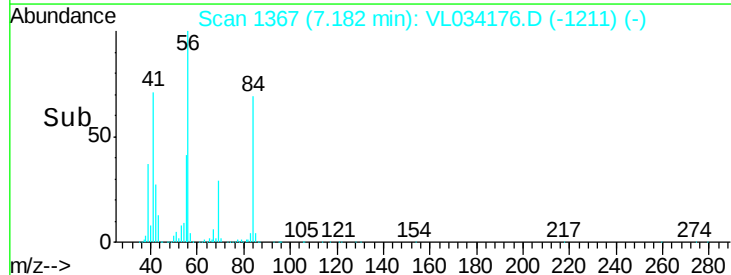
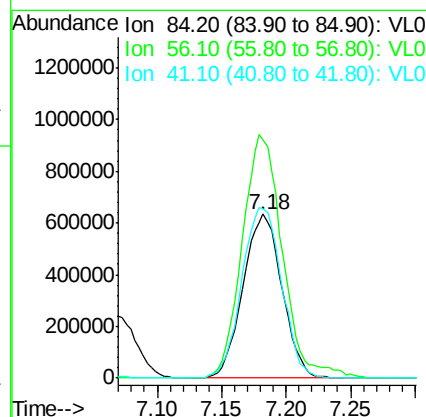
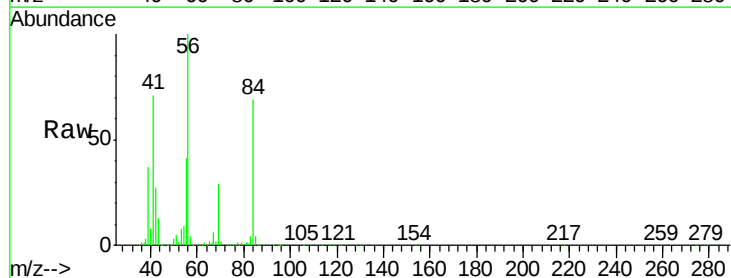
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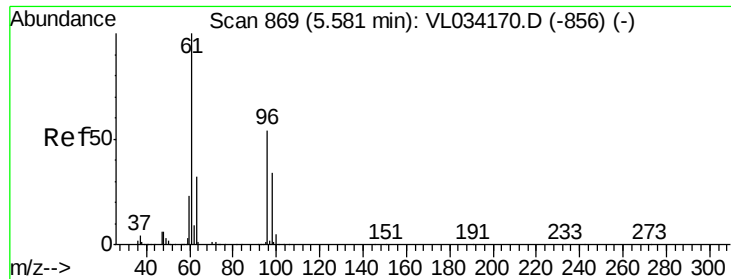
MMDadoda
9/20/2019 12:44:06 AM



#30
Cyclohexane
Concen: 13.071 ppbv
RT: 7.18 min Scan# 1367
Delta R.T. 0.00 min
Lab File: VL034176.D
Acq: 17 Sep 2019 8:07

Tgt Ion: 84 Resp: 1331839
Ion Ratio Lower Upper
84 100
56 154.0 126.2 189.2
41 106.5 85.8 128.8





#31

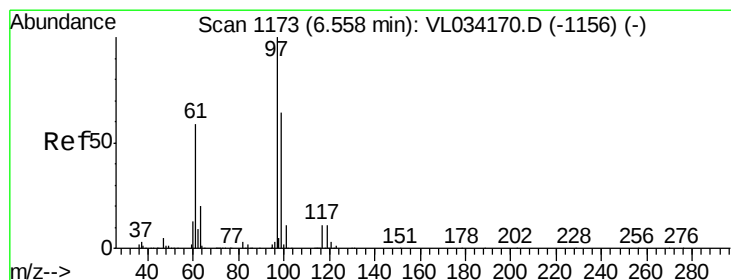
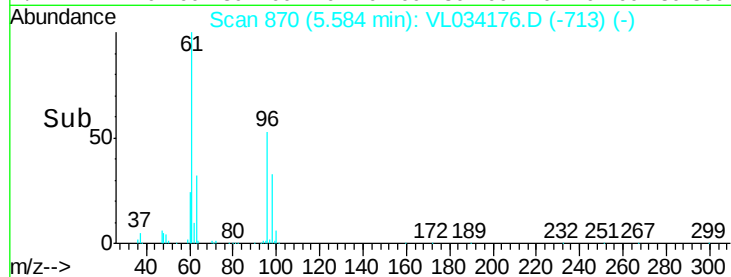
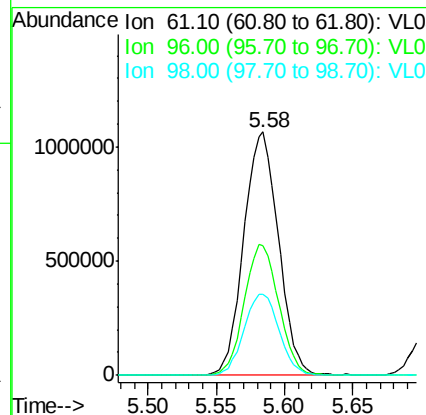
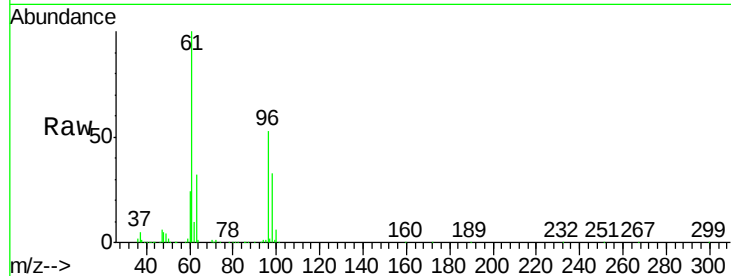
cis-1,2-Dichloroethene
 Concen: 13.800 ppbv
 RT: 5.58 min Scan# 870
 Delta R.T. 0.00 min
 Lab File: VL034176.D
 Acq: 17 Sep 2019 8:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
61	100		
96	53.0	43.0	64.4
98	33.3	27.2	40.8

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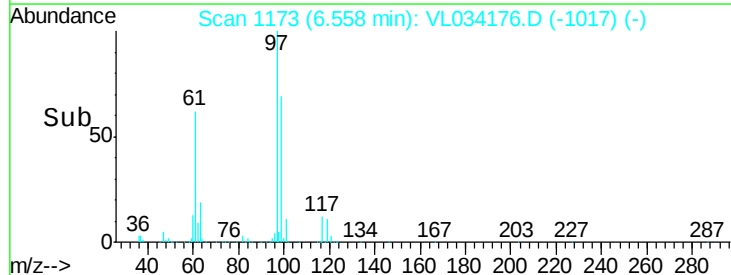
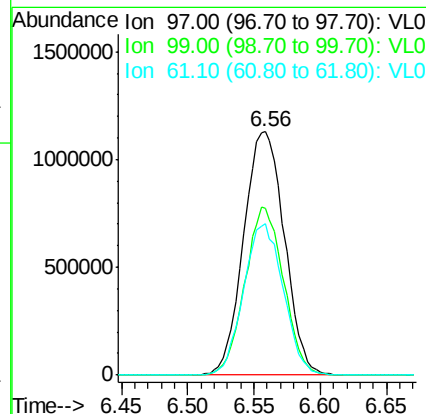
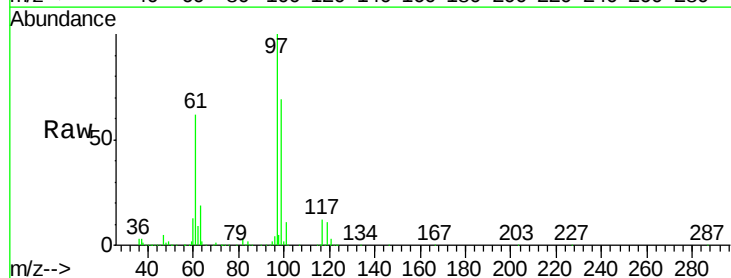
MMDadoda
 9/20/2019 12:44:06 AM

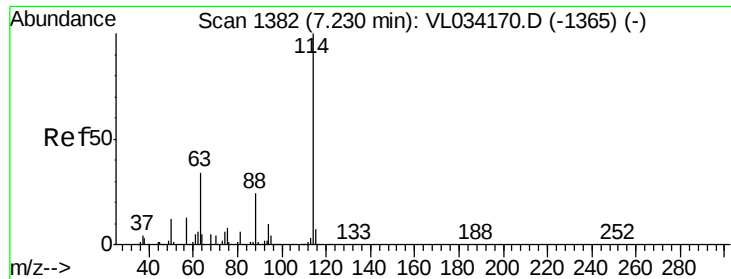


#32

1,1,1-Trichloroethane
 Concen: 13.296 ppbv
 RT: 6.56 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VL034176.D
 Acq: 17 Sep 2019 8:07

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.3	51.4	77.2
61	60.6	48.4	72.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.23 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VL034176.D

Acq: 17 Sep 2019 8:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:114 Resp: 2189478

Ion Ratio Lower Upper

114 100

63 34.4 27.8 41.6

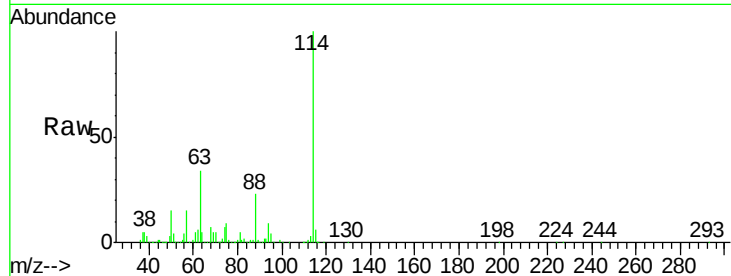
88 21.8 17.1 25.7

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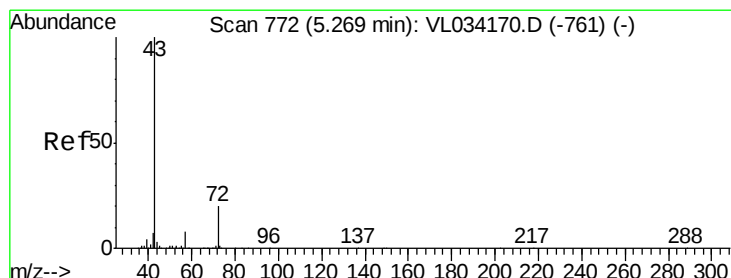
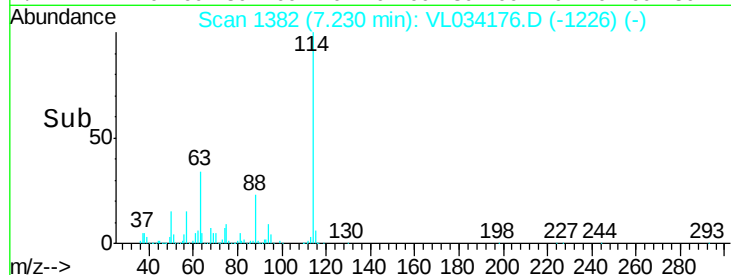
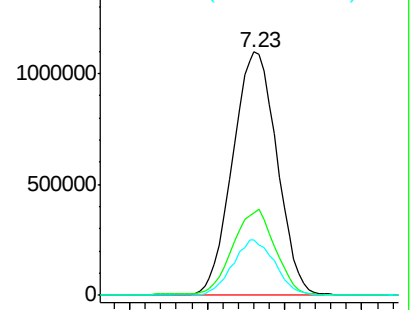
9/20/2019 12:44:06 AM



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 13.449 ppbv

RT: 5.27 min Scan# 772

Delta R.T. 0.00 min

Lab File: VL034176.D

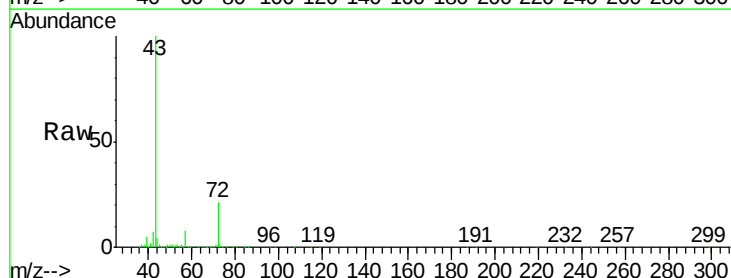
Acq: 17 Sep 2019 8:07

Tgt Ion: 43 Resp: 2878471

Ion Ratio Lower Upper

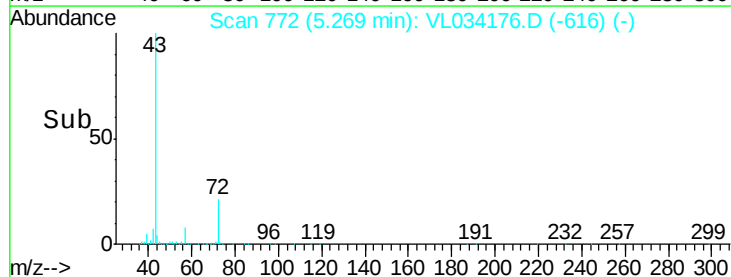
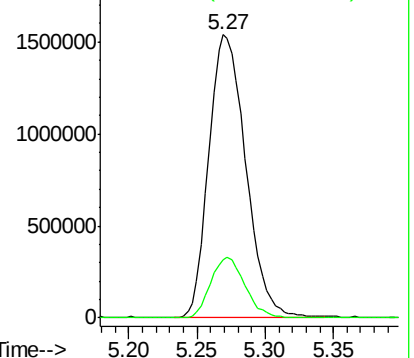
43 100

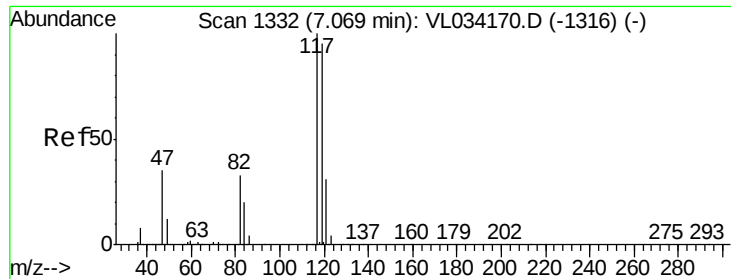
72 20.1 15.0 22.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 13.898 ppbv

RT: 7.07 min Scan# 1332

Delta R.T. 0.00 min

Lab File: VL034176.D

Acq: 17 Sep 2019 8:07

Instrument :

MSVOA_L

ClientSampled :

VSTDIC015

Tot Ion: 117 Resp: 2404274

Ion Ratio Lower Upper

117 100

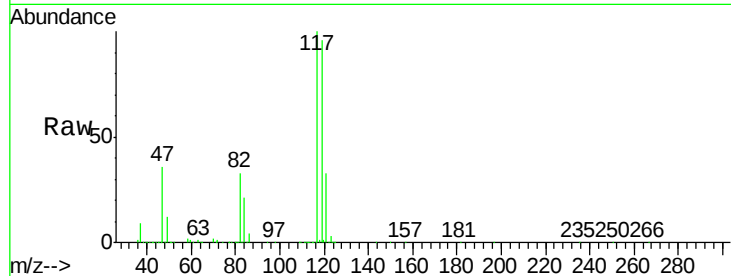
119 96.0 75.8 113.6

121 33.1 25.0 37.6

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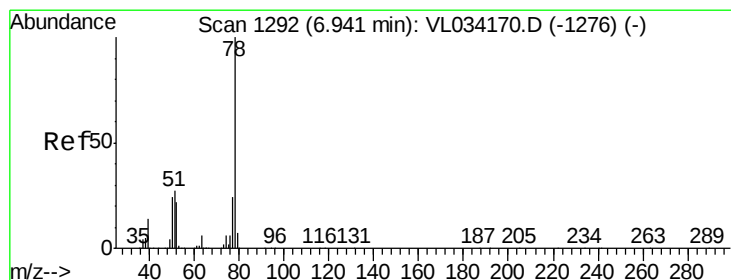
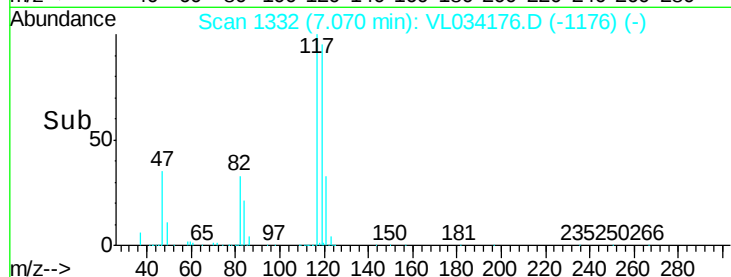
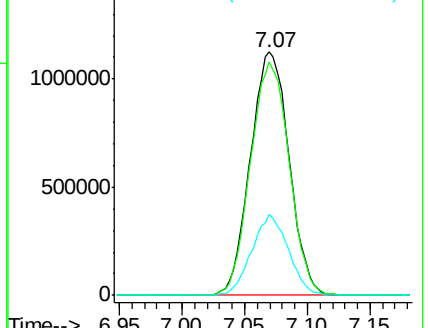
9/20/2019 12:44:06 AM



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: 12.463 ppbv

RT: 6.94 min Scan# 1293

Delta R.T. 0.00 min

Lab File: VL034176.D

Acq: 17 Sep 2019 8:07

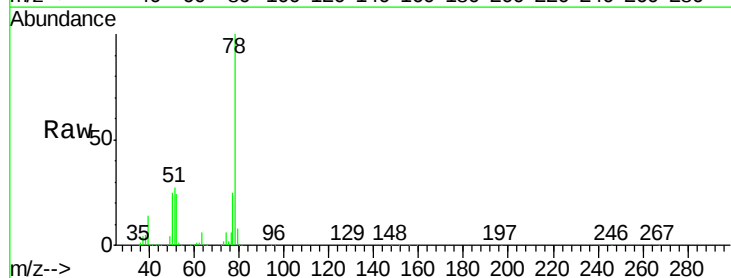
Tgt Ion: 78 Resp: 3115675

Ion Ratio Lower Upper

78 100

77 25.0 19.0 28.4

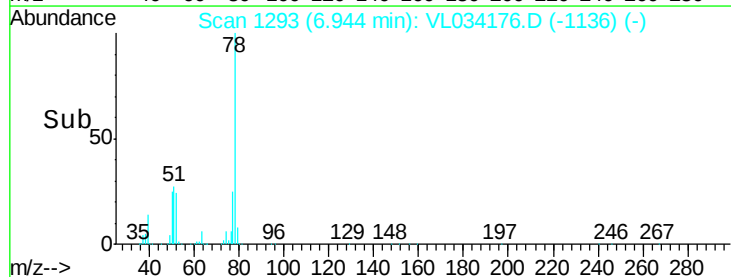
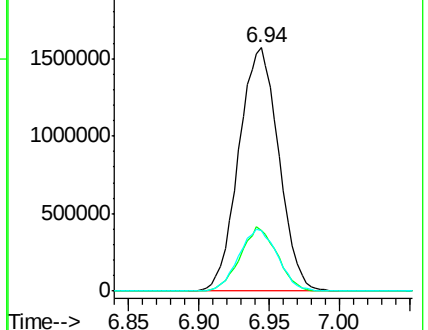
50 24.8 18.9 28.3

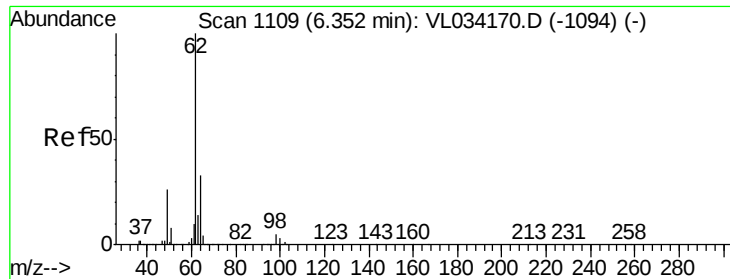


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





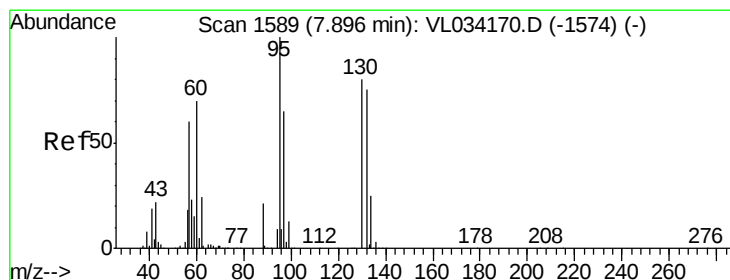
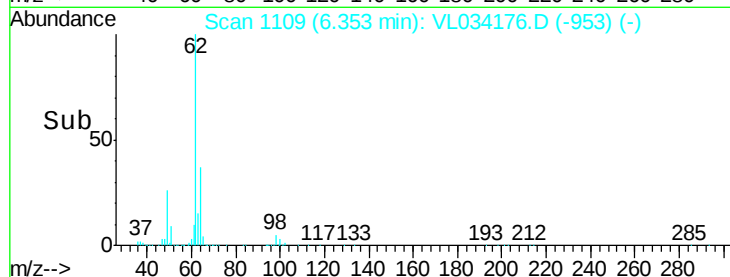
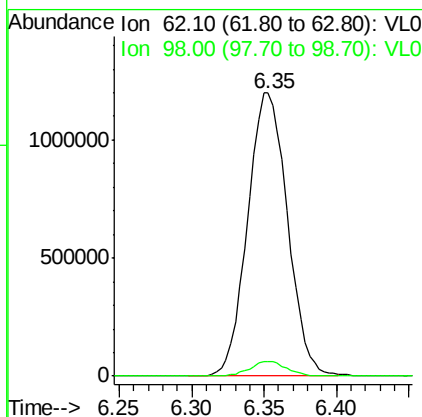
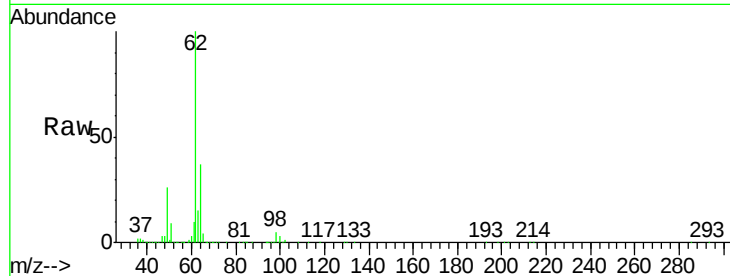
#37
 1,2-Dichloroethane
 Concen: 14.496 ppbv
 RT: 6.35 min Scan# 1109
 Delta R.T. 0.00 min
 Lab File: VL034176.D
 Acq: 17 Sep 2019 8:07

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
62	100		
98	4.8	3.8	5.8

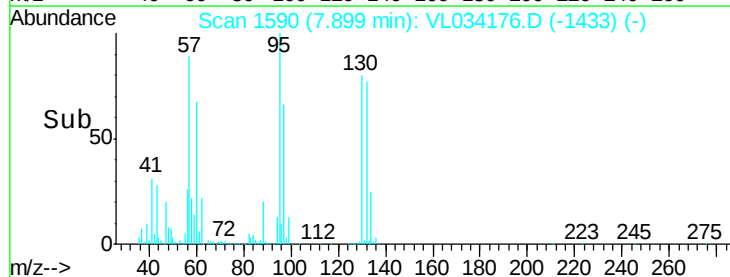
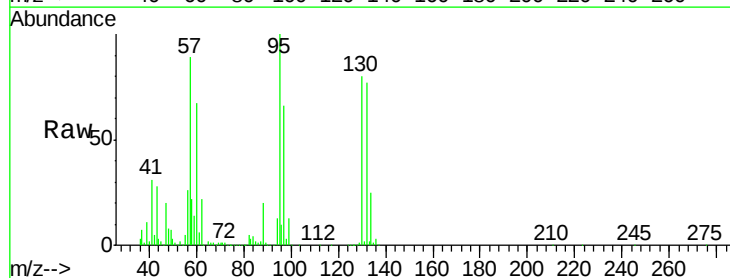
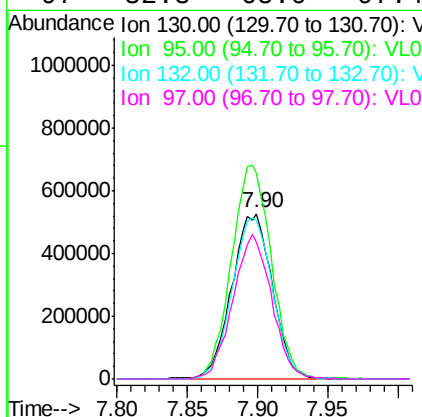
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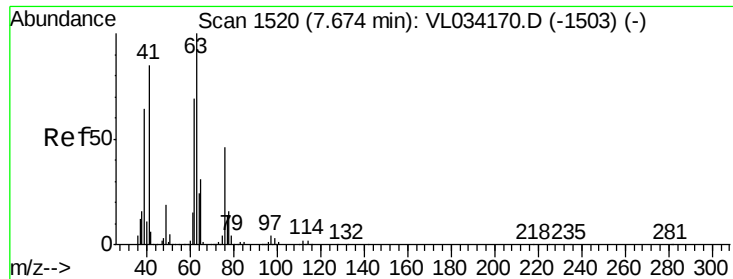
MMDadoda
 9/20/2019 12:44:06 AM



#38
 Trichloroethene
 Concen: 11.319 ppbv
 RT: 7.90 min Scan# 1590
 Delta R.T. 0.00 min
 Lab File: VL034176.D
 Acq: 17 Sep 2019 8:07

Tgt Ion	Ratio	Lower	Upper
130	100		
95	124.5	99.8	149.6
132	96.2	75.2	112.8
97	82.8	65.0	97.4





#39
 1,2-Dichloropropane
 Concen: 13.340 ppbv
 RT: 7.67 min Scan# 1519
 Delta R.T. -0.00 min
 Lab File: VL034176.D
 Acq: 17 Sep 2019 8:07

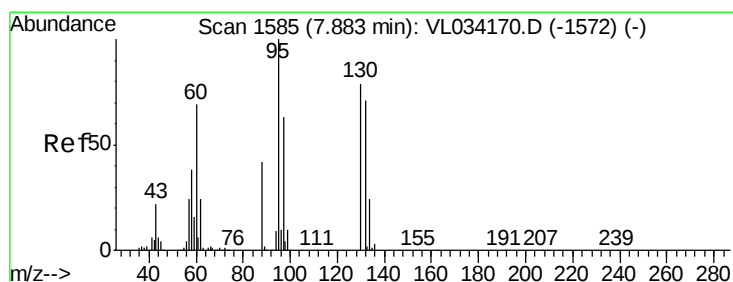
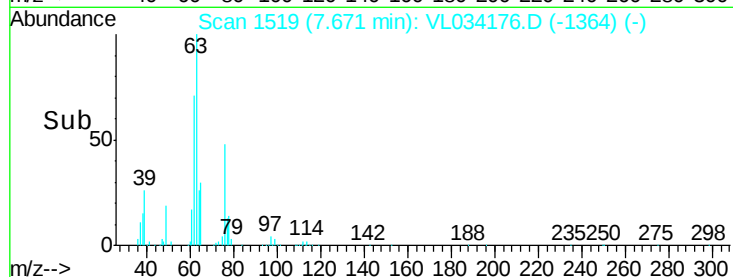
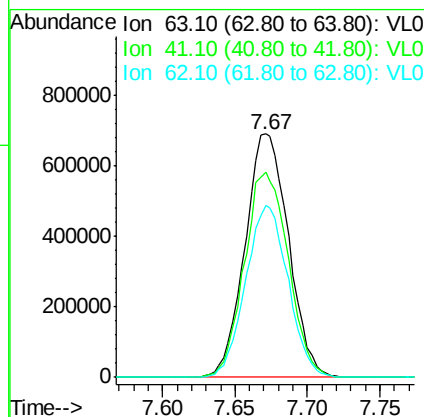
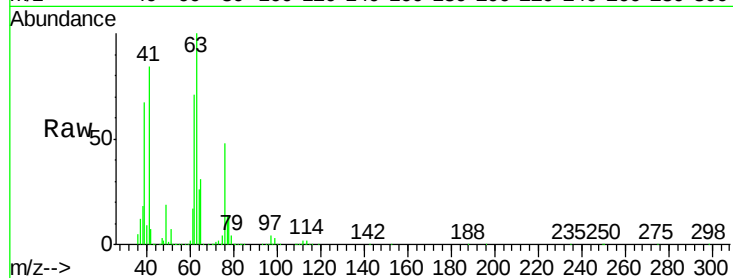
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 63 Resp: 1441163

Ion	Ratio	Lower	Upper
63	100		
41	84.0	68.4	102.6
62	70.8	55.4	83.2

Manual Integrations
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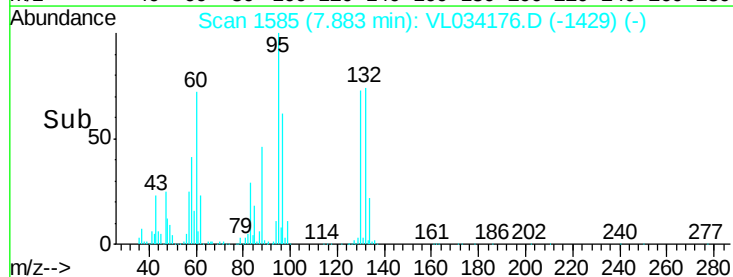
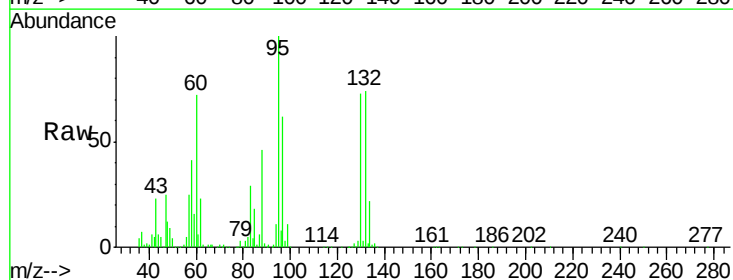
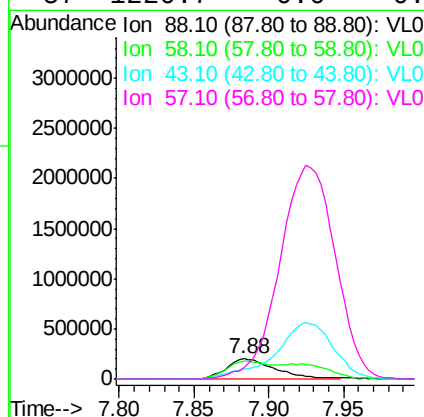
MMDadoda
 9/20/2019 12:44:06 AM

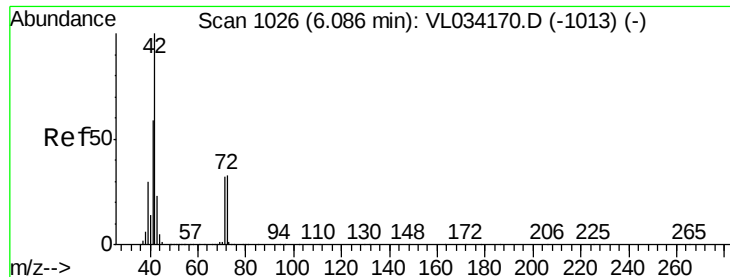


#40
 1,4-Dioxane
 Concen: 11.525 ppbv
 RT: 7.88 min Scan# 1585
 Delta R.T. 0.00 min
 Lab File: VL034176.D
 Acq: 17 Sep 2019 8:07

Tgt Ion: 88 Resp: 451106

Ion	Ratio	Lower	Upper
88	100		
58	157.0	131.8	197.6
43	334.7	0.0	0.0#
57	1220.7	0.0	0.0#





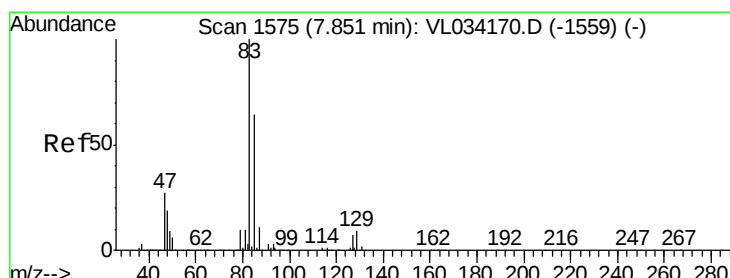
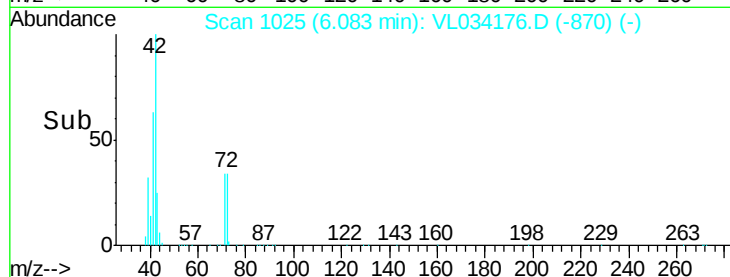
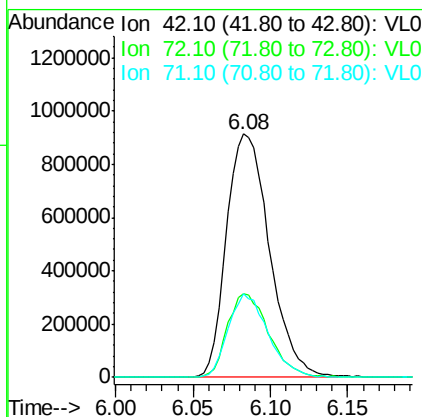
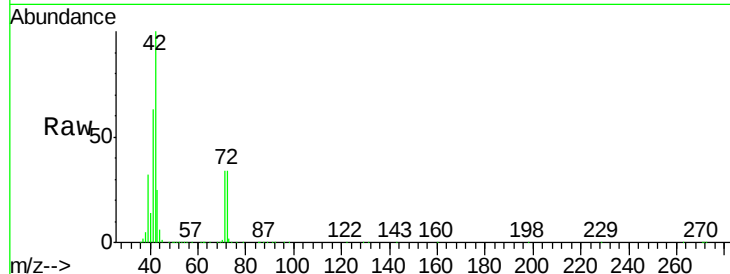
#41
Tetrahydrofuran
Concen: 13.807 ppbv
RT: 6.08 min Scan# 1025
Delta R.T. -0.00 min
Lab File: VL034176.D
Acq: 17 Sep 2019 8:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
42	100		
72	33.3	26.6	40.0
71	32.0	25.1	37.7

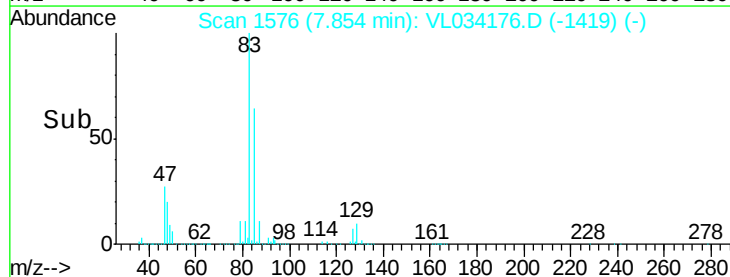
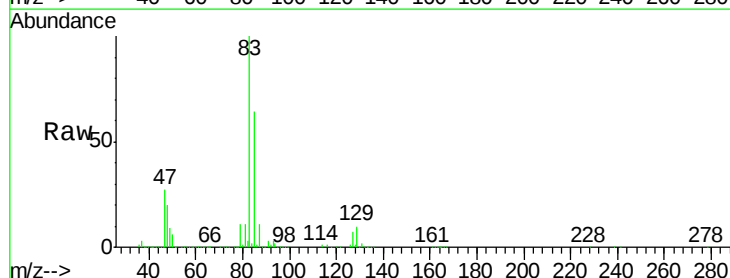
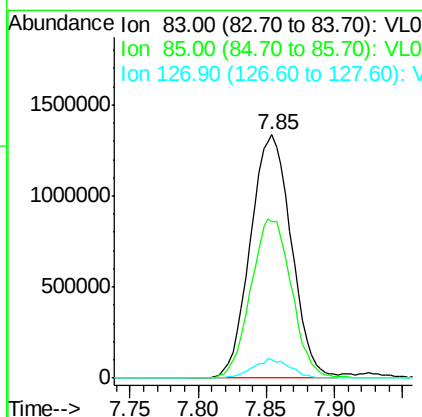
Manual Integrations
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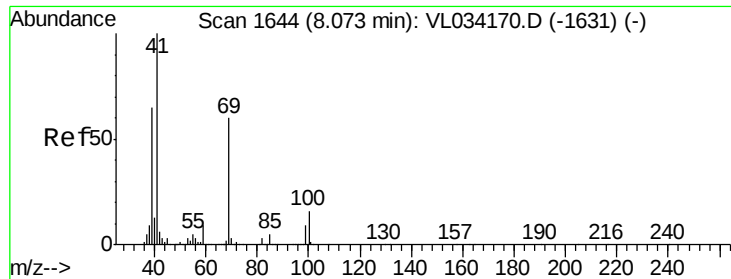
MMDadoda
9/20/2019 12:44:06 AM



#42
Bromodichloromethane
Concen: 13.717 ppbv
RT: 7.85 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VL034176.D
Acq: 17 Sep 2019 8:07

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.4	77.0
127	7.4	5.5	8.3





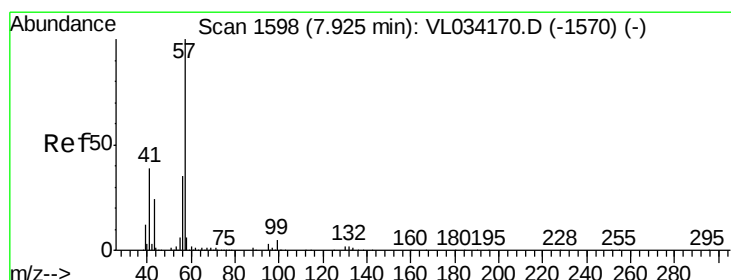
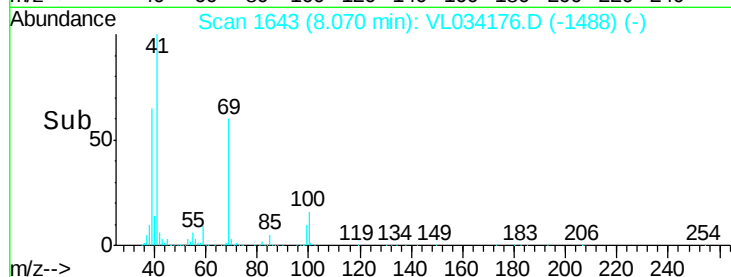
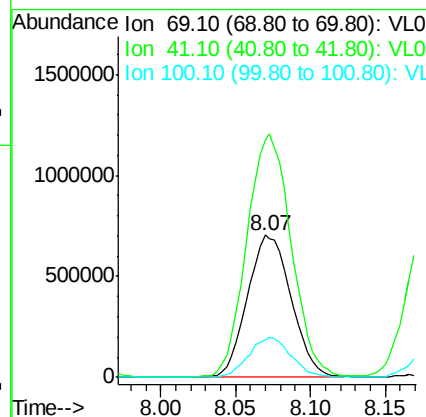
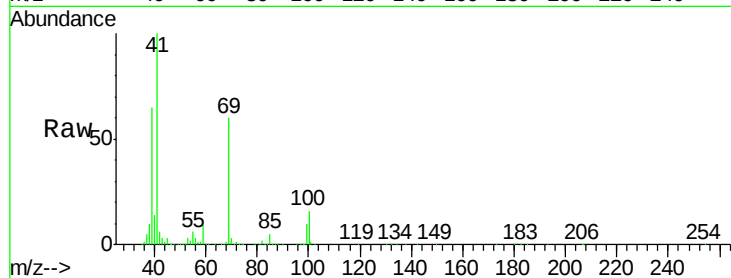
#43
Methyl Methacrylate
Concen: 13.925 ppbv
RT: 8.07 min Scan# 1643
Delta R.T. -0.00 min
Lab File: VL034176.D
Acq: 17 Sep 2019 8:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	173.2	140.4	210.6	
100	27.0	21.9	32.9	

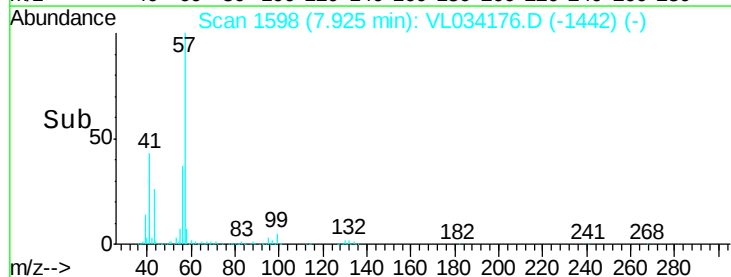
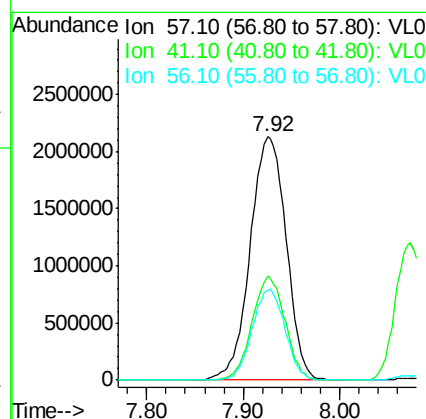
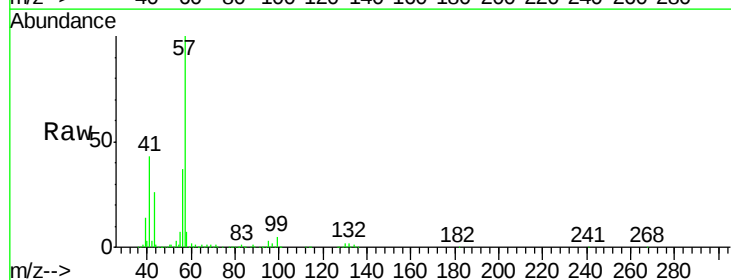
Manual Integrations
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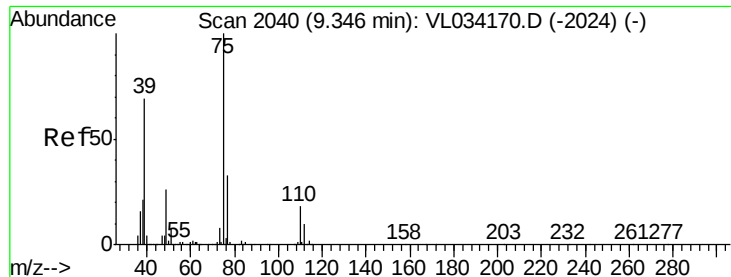
MMDadoda
9/20/2019 12:44:06 AM



#44
2,2,4-Trimethylpentane
Concen: 11.796 ppbv
RT: 7.92 min Scan# 1598
Delta R.T. 0.00 min
Lab File: VL034176.D
Acq: 17 Sep 2019 8:07

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	39.0	29.8	44.6	
56	34.1	25.9	38.9	





#45

t-1,3-Dichloropropene

Concen: 15.903 ppbv

RT: 9.35 min Scan# 2041

Delta R.T. 0.00 min

Lab File: VL034176.D

Acq: 17 Sep 2019 8:07

Tot Ion: 75 Resp: 1941013

Ion Ratio Lower Upper

75 100

77 32.5 26.2 39.2

Instrument :

MSVOA_L

ClientSampled :

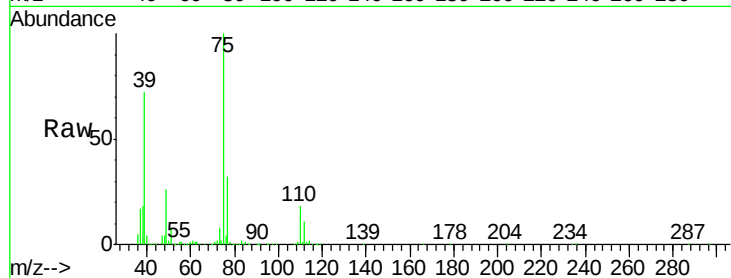
VSTDIC015

Manual Integrations

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9/20/2019 12:44:06 AM



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.35

800000

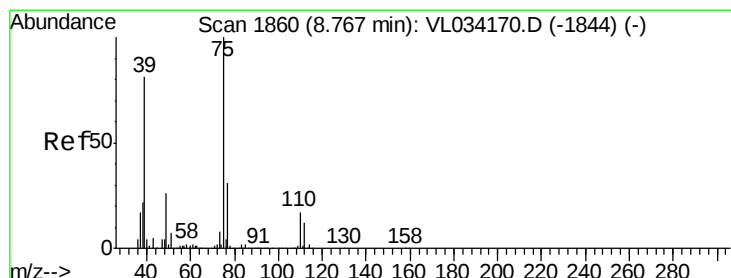
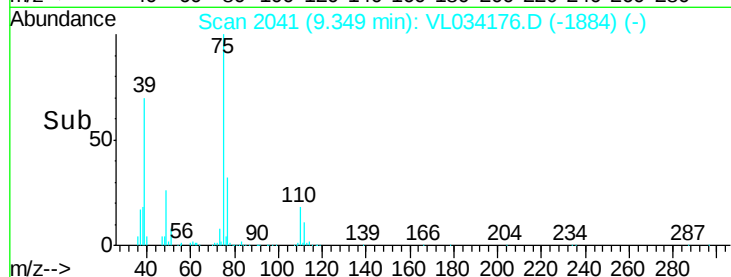
600000

400000

200000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 14.317 ppbv

RT: 8.77 min Scan# 1861

Delta R.T. 0.00 min

Lab File: VL034176.D

Acq: 17 Sep 2019 8:07

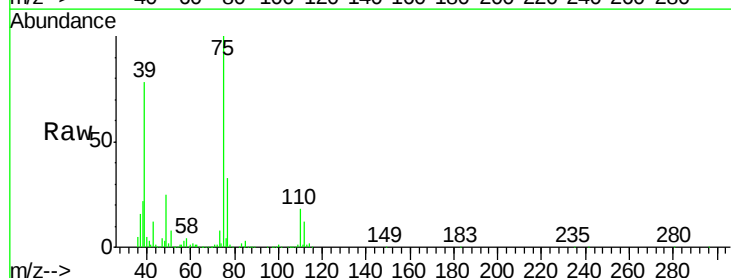
Tgt Ion: 75 Resp: 2123942

Ion Ratio Lower Upper

75 100

39 78.4 65.0 97.4

77 33.3 24.5 36.7



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

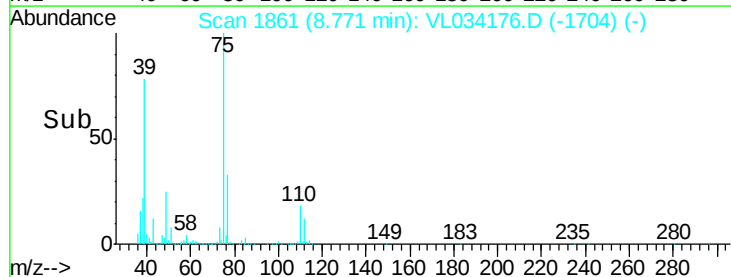
8.77

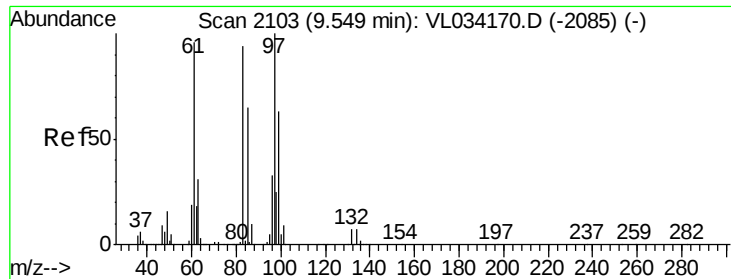
1000000

500000

0

Time-->





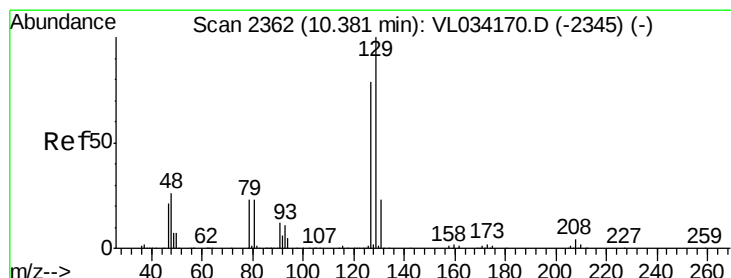
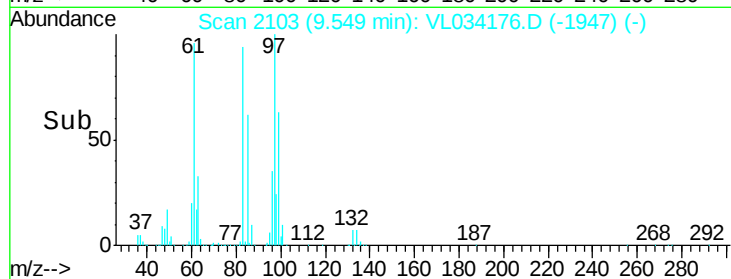
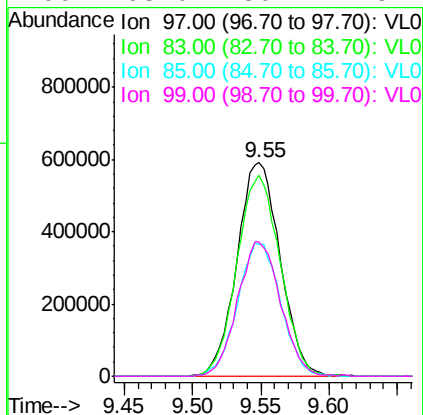
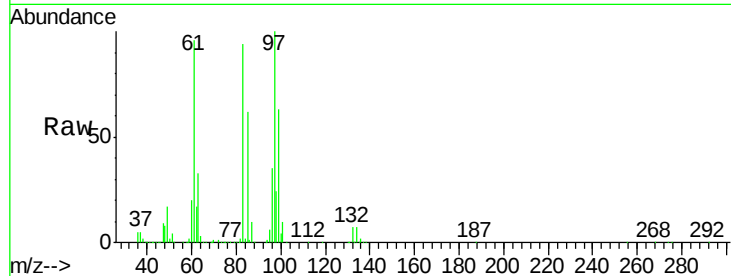
#47
 1,1,2-Trichloroethane
 Concen: 13.292 ppbv
 RT: 9.55 min Scan# 2103
 Delta R.T. 0.00 min
 Lab File: VL034176.D
 Acq: 17 Sep 2019 8:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	93.7	75.3	112.9	
85	61.7	52.1	78.1	
99	63.0	50.2	75.2	

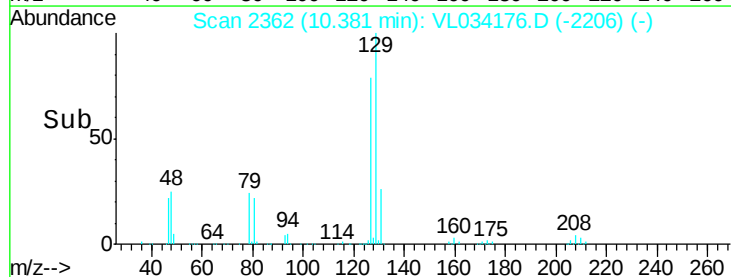
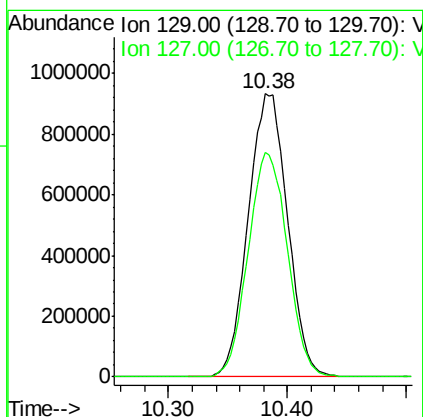
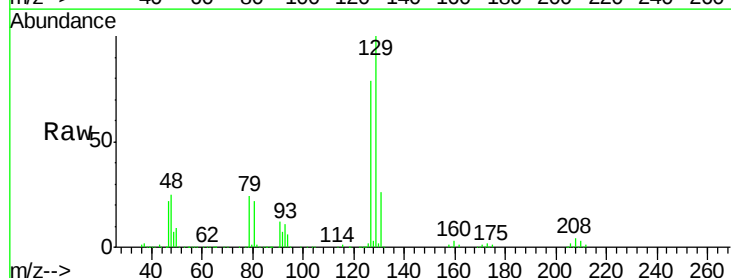
Manual Integrations
 APPROVED

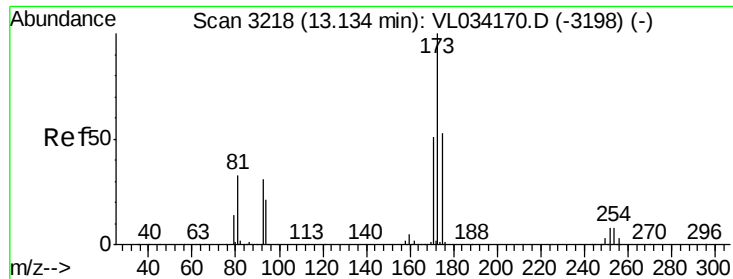
MMDadoda
 9/20/2019 12:44:06 AM



#48
 Dibromochloromethane
 Concen: 14.434 ppbv
 RT: 10.38 min Scan# 2362
 Delta R.T. 0.00 min
 Lab File: VL034176.D
 Acq: 17 Sep 2019 8:07

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	79.3	39.2	117.6	





#49

Bromoform

Concen: 14.302 ppbv

RT: 13.13 min Scan# 3218

Delta R.T. 0.00 min

Lab File: VL034176.D

Acq: 17 Sep 2019 8:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:173 Resp: 1837143

Ion Ratio Lower Upper

173 100

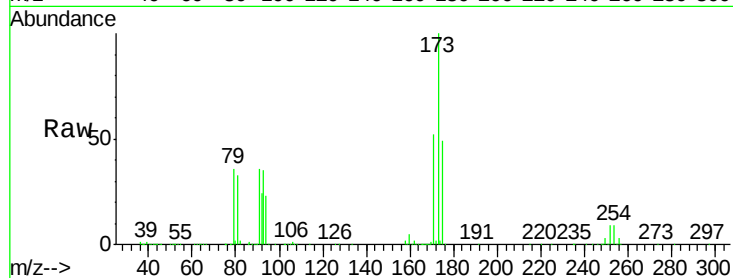
175 49.7 40.3 60.5

171 52.6 42.0 63.0

Manual Integrations
APPROVED

MMDadoda

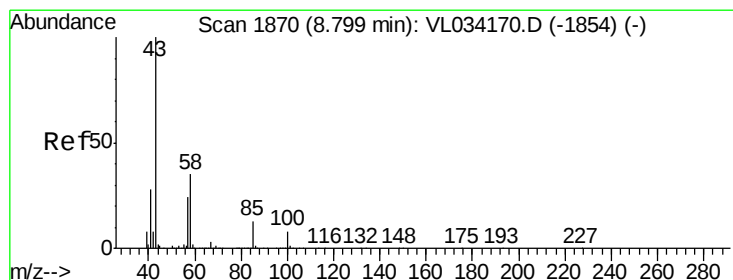
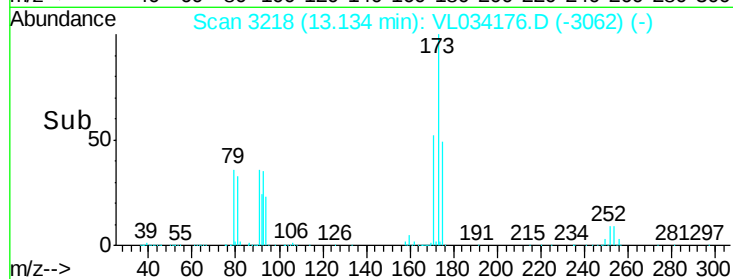
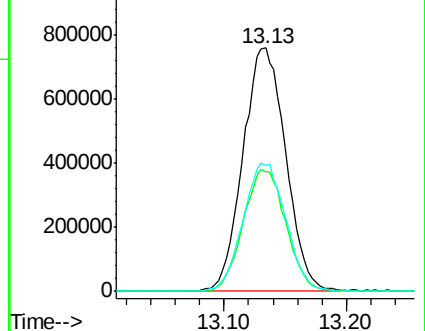
9/20/2019 12:44:06 AM



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: 12.611 ppbv

RT: 8.80 min Scan# 1871

Delta R.T. 0.00 min

Lab File: VL034176.D

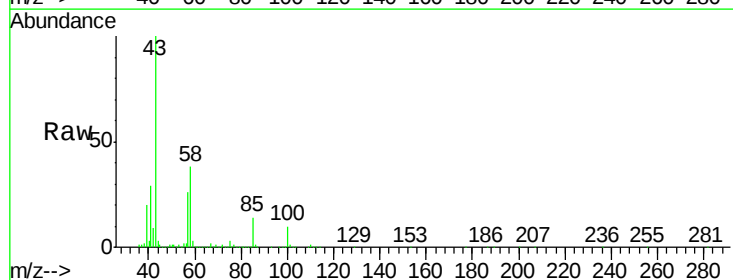
Acq: 17 Sep 2019 8:07

Tgt Ion: 43 Resp: 4109205

Ion Ratio Lower Upper

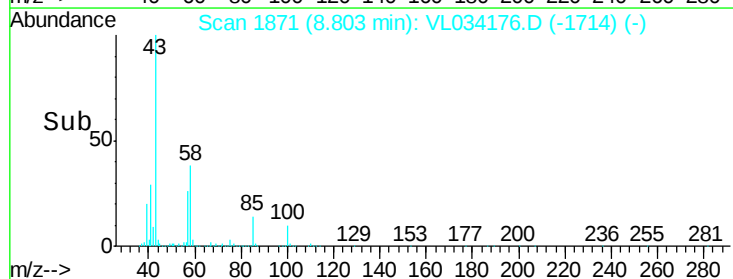
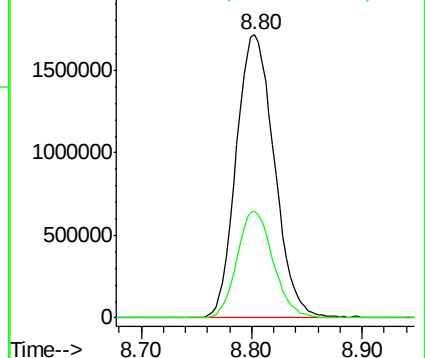
43 100

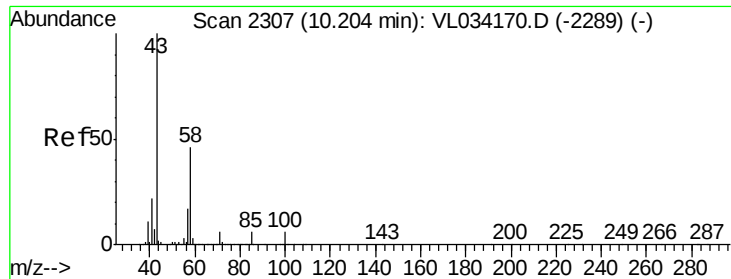
58 35.7 27.6 41.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





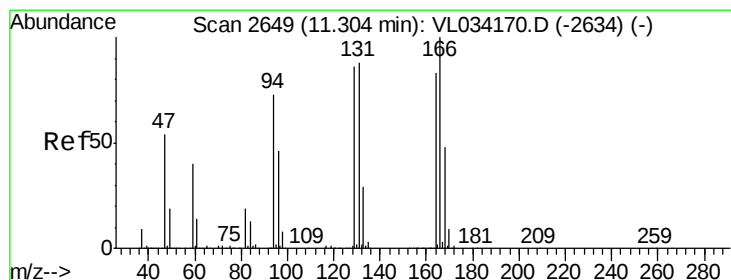
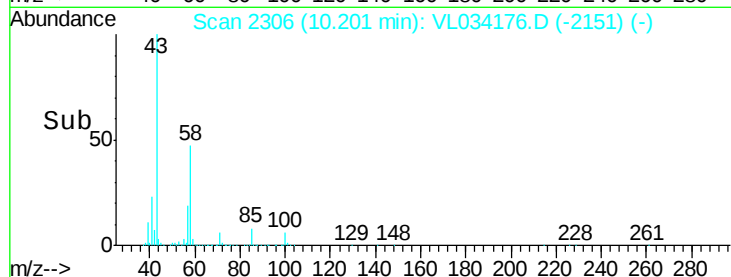
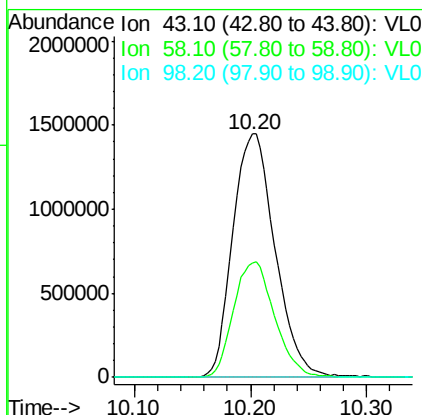
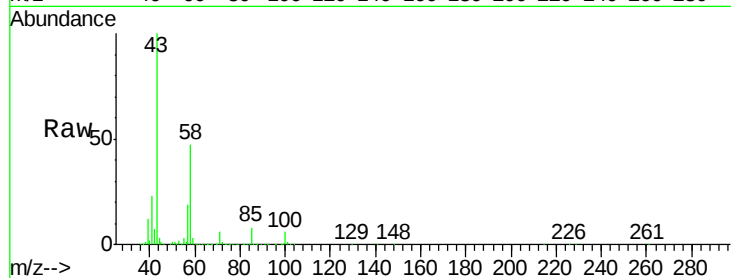
#51
2-Hexanone
Concen: 13.008 ppbv
RT: 10.20 min Scan# 2306
Delta R.T. -0.00 min
Lab File: VL034176.D
Acq: 17 Sep 2019 8:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 3655126
Ion Ratio Lower Upper
43 100
58 46.5 36.2 54.4
98 0.1 0.2 0.2#

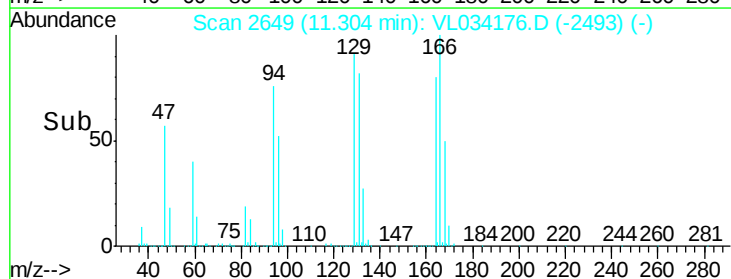
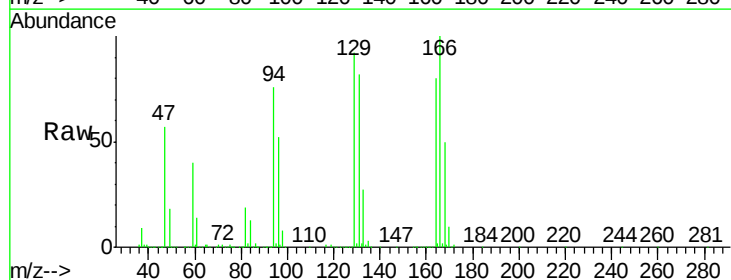
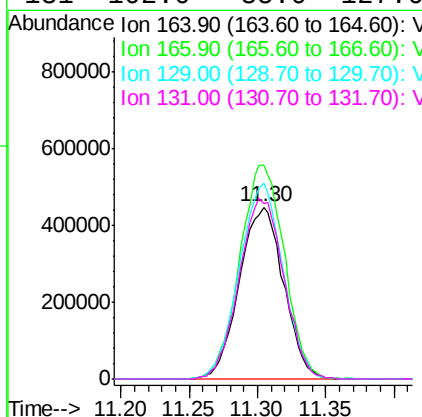
Manual Integrations
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9/20/2019 12:44:06 AM



#52
Tetrachloroethene
Concen: 11.385 ppbv
RT: 11.30 min Scan# 2649
Delta R.T. 0.00 min
Lab File: VL034176.D
Acq: 17 Sep 2019 8:07

Tgt Ion: 164 Resp: 1003016
Ion Ratio Lower Upper
164 100
166 124.3 96.7 145.1
129 113.9 82.8 124.2
131 102.0 85.0 127.6





#53

Toluene

Concen: 12.557 ppbv

RT: 9.88 min Scan# 2205

Delta R.T. -0.00 min

Lab File: VL034176.D

Acq: 17 Sep 2019 8:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 3476383

Ion Ratio Lower Upper

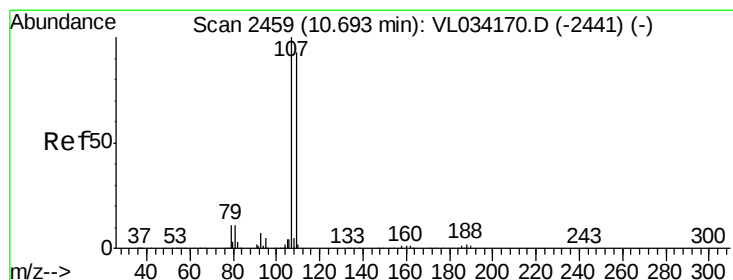
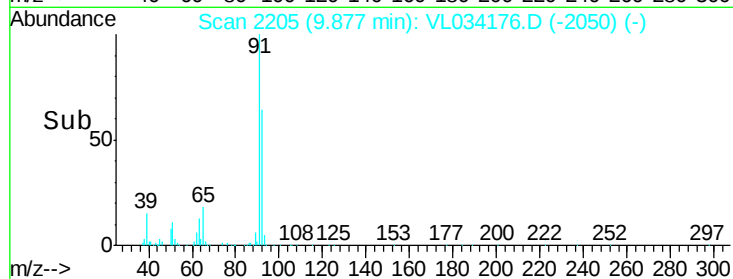
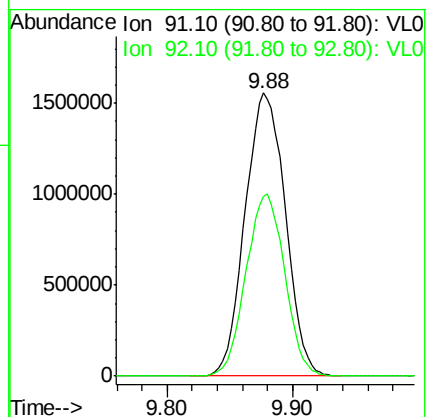
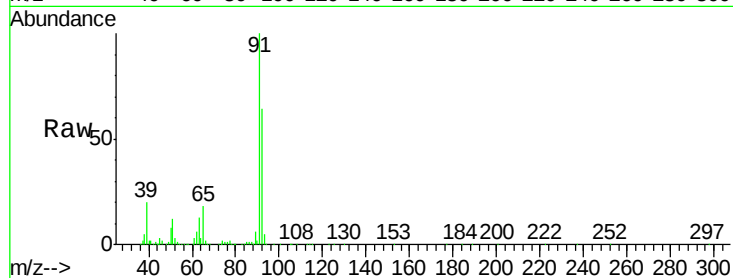
91 100

92 62.0 49.0 73.6

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MMDadoda

9/20/2019 12:44:06 AM



#54

1,2-Dibromoethane

Concen: 13.238 ppbv

RT: 10.69 min Scan# 2459

Delta R.T. 0.00 min

Lab File: VL034176.D

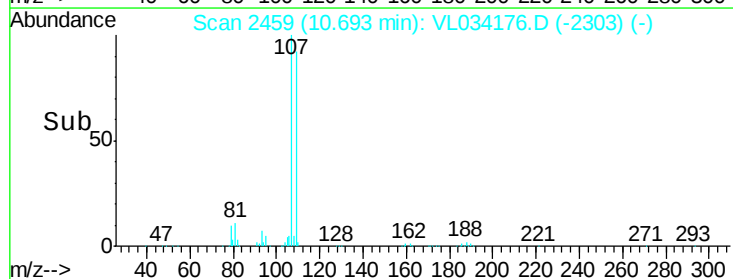
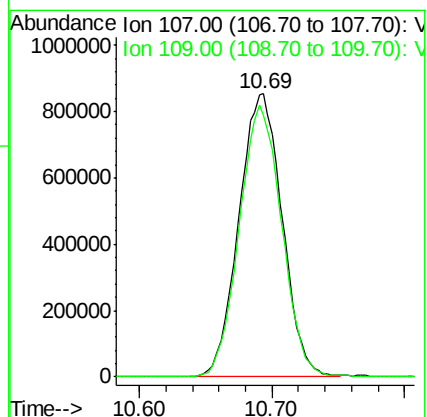
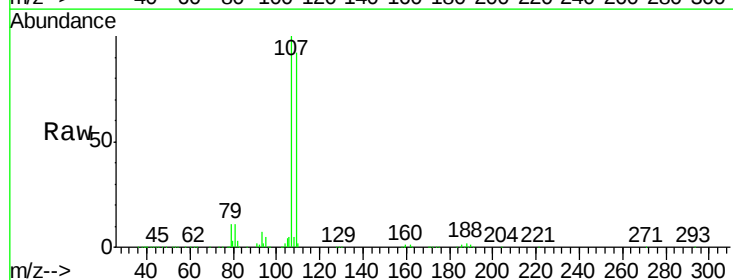
Acq: 17 Sep 2019 8:07

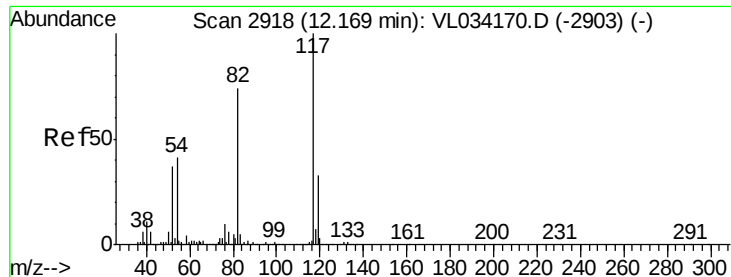
Tgt Ion: 107 Resp: 1936688

Ion Ratio Lower Upper

107 100

109 92.2 74.5 111.7





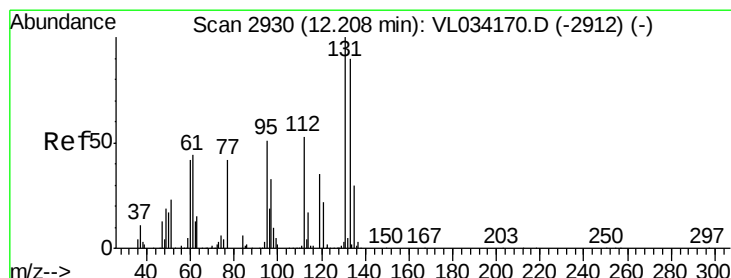
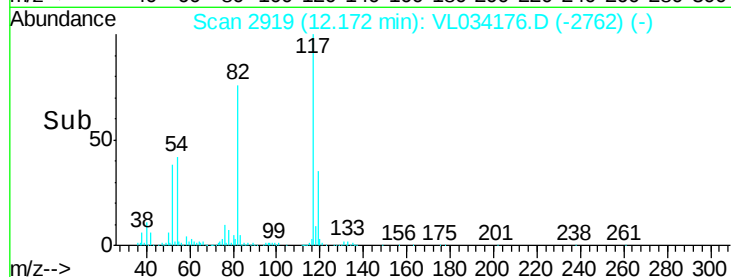
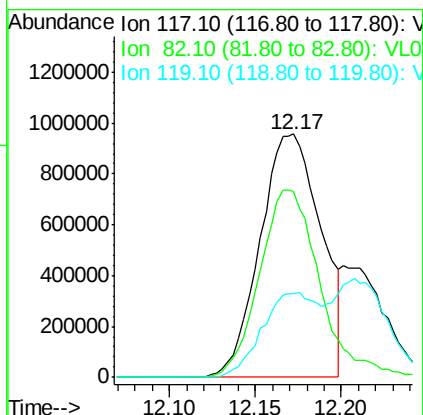
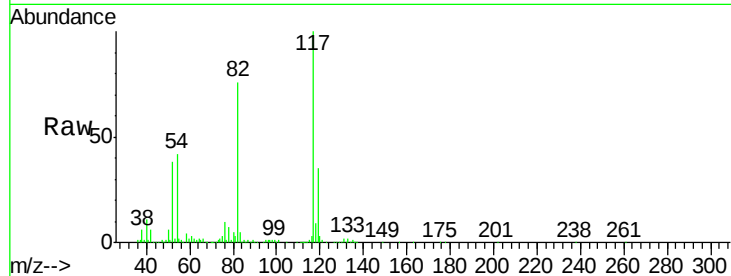
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.17 min Scan# 2919
Delta R.T. 0.00 min
Lab File: VL034176.D
Acq: 17 Sep 2019 8:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:117 Resp: 2352179
Ion Ratio Lower Upper
117 100
82 76.8 58.2 87.4
119 34.0 23.7 35.5

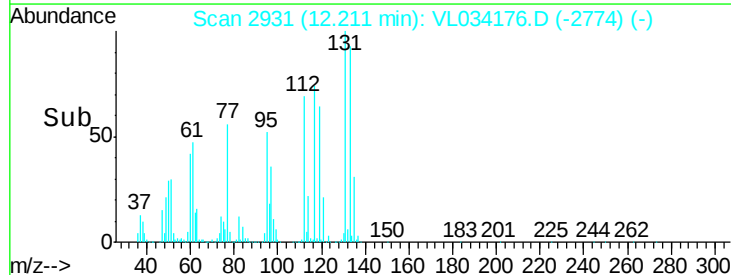
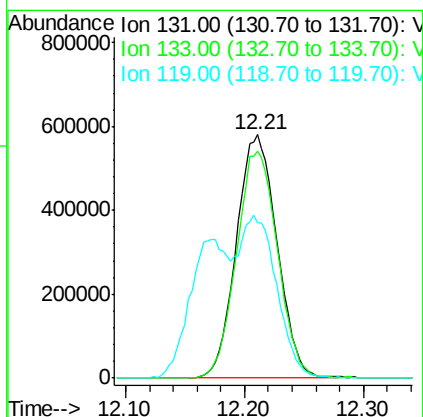
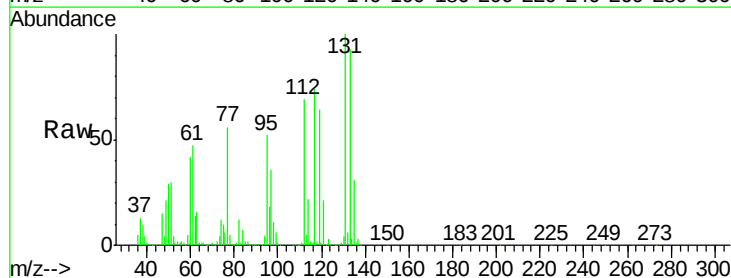
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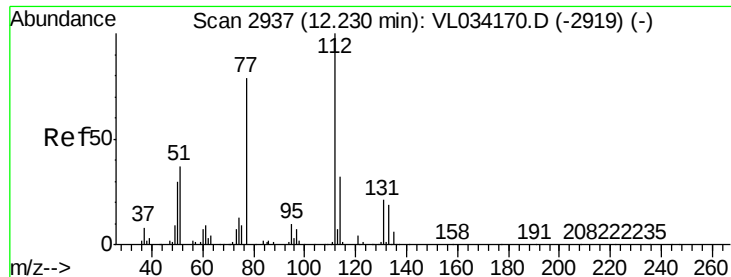
MMDadoda
9/20/2019 12:44:06 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 13.385 ppbv
RT: 12.21 min Scan# 2931
Delta R.T. 0.00 min
Lab File: VL034176.D
Acq: 17 Sep 2019 8:07

Tgt Ion:131 Resp: 1365380
Ion Ratio Lower Upper
131 100
133 95.1 75.1 112.7
119 60.0 47.4 71.0





#57

Chlorobenzene

Concen: 12.197 ppbv

RT: 12.23 min Scan# 2938

Delta R.T. 0.00 min

Lab File: VL034176.D

Acq: 17 Sep 2019 8:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:112 Resp: 2476475

Ion Ratio Lower Upper

112 100

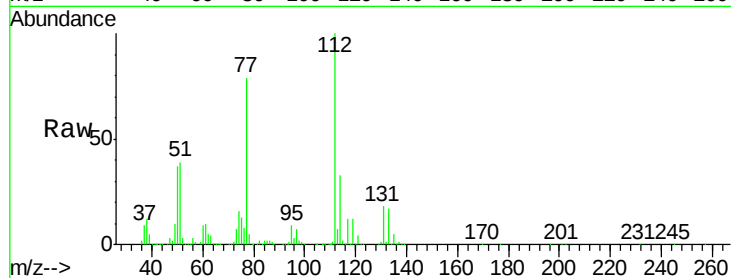
77 78.2 64.3 96.5

114 32.9 28.9 35.3

Manual Integrations
APPROVED

MMDadoda

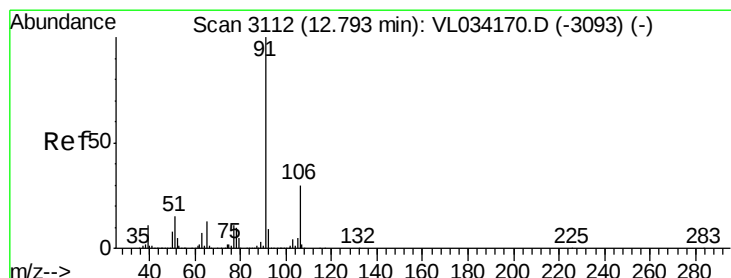
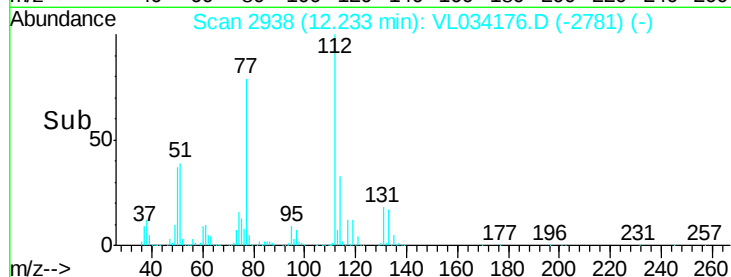
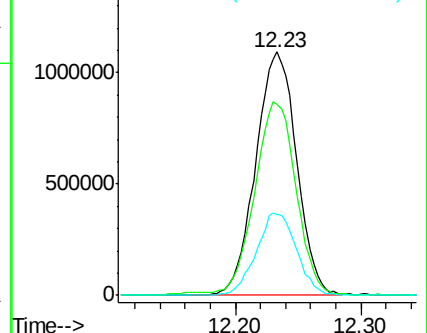
9/20/2019 12:44:06 AM



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: 12.079 ppbv

RT: 12.80 min Scan# 3113

Delta R.T. 0.00 min

Lab File: VL034176.D

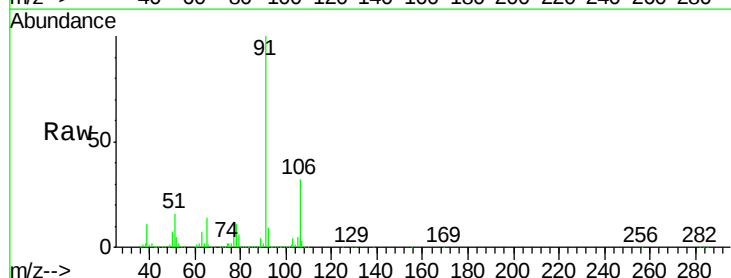
Acq: 17 Sep 2019 8:07

Tgt Ion: 91 Resp: 4667157

Ion Ratio Lower Upper

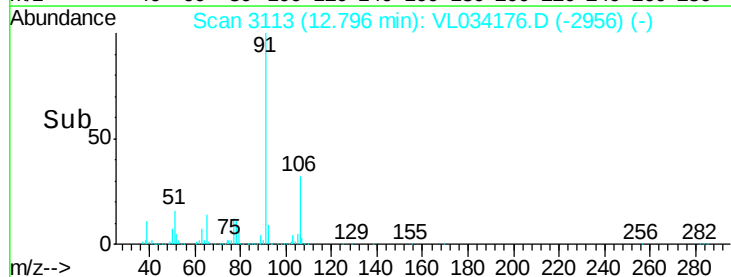
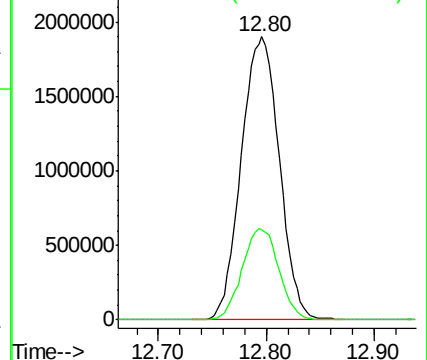
91 100

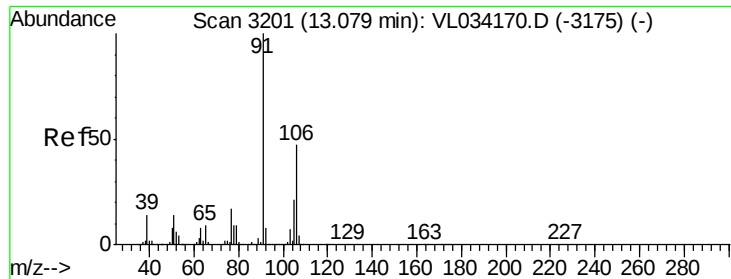
106 31.8 24.2 36.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





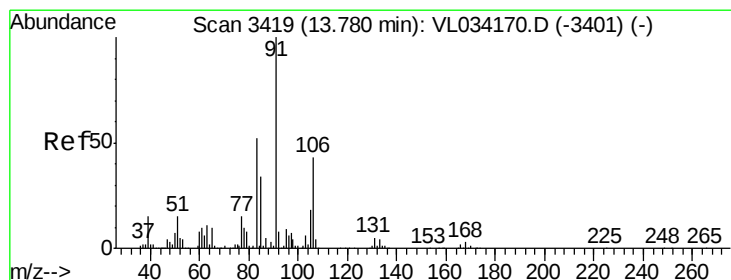
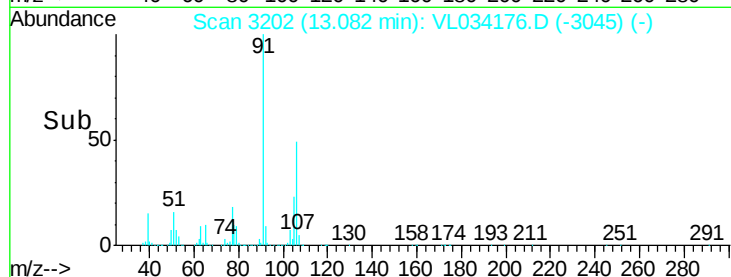
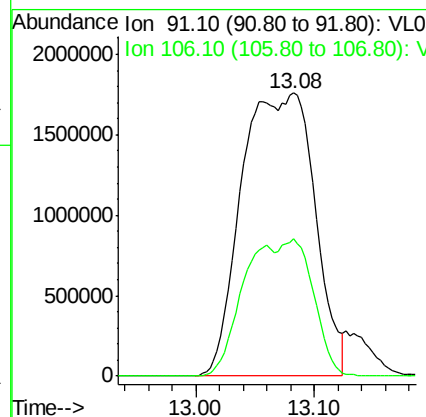
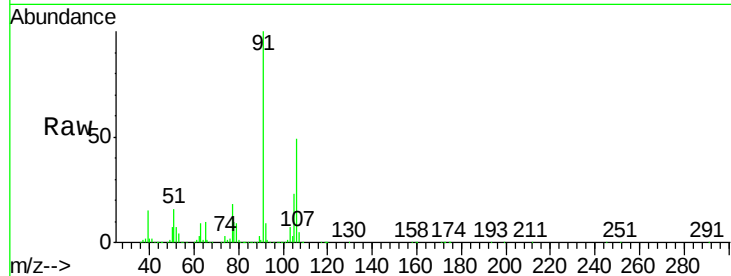
#59
m/p-Xylene
Concen: 23.777 ppbv m
RT: 13.08 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VL034176.D
Acq: 17 Sep 2019 8:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 91 Resp: 7496191
Ion Ratio Lower Upper
91 100
106 45.4 35.5 53.3

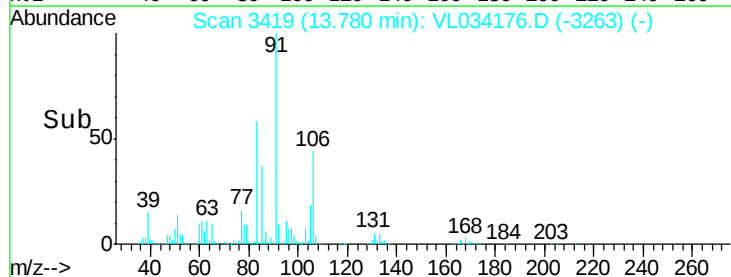
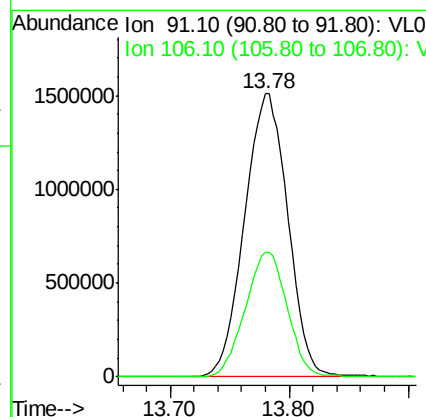
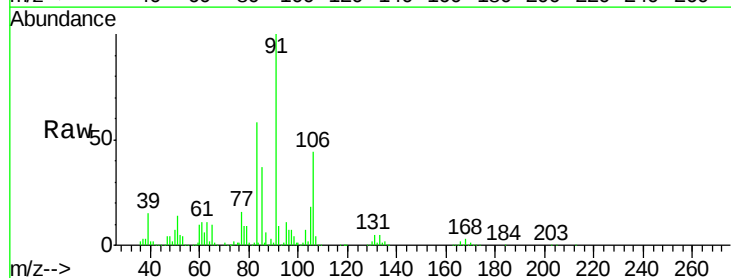
Manual Integrations
APPROVED

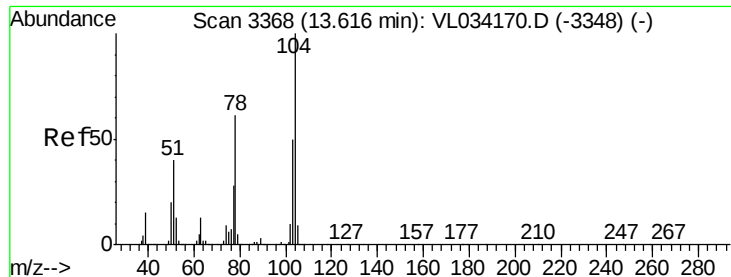
MMDadoda
9/20/2019 12:44:06 AM



#60
o-Xylene
Concen: 12.044 ppbv
RT: 13.78 min Scan# 3419
Delta R.T. 0.00 min
Lab File: VL034176.D
Acq: 17 Sep 2019 8:07

Tgt Ion: 91 Resp: 3787157
Ion Ratio Lower Upper
91 100
106 43.1 21.2 63.6





#61

Stvrene

Concen: 12.763 ppbv

RT: 13.62 min Scan# 3368

Delta R.T. 0.00 min

Lab File: VL034176.D

Acq: 17 Sep 2019 8:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:104 Resp: 2985052

Ion Ratio Lower Upper

104 100

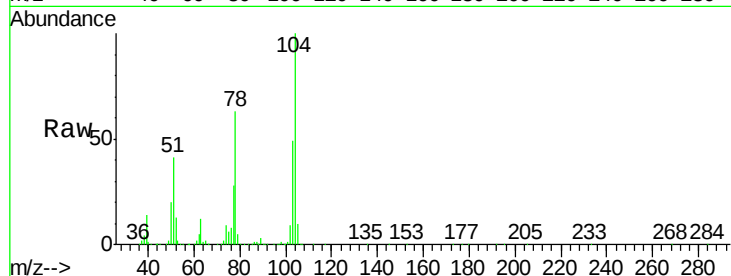
78 62.4 49.7 74.5

103 49.4 38.4 57.6

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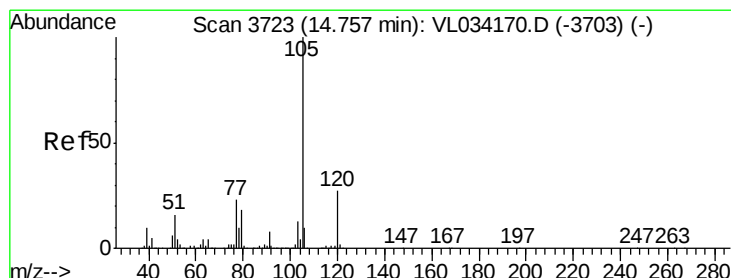
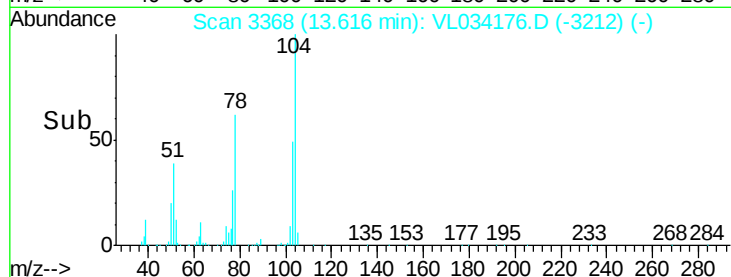
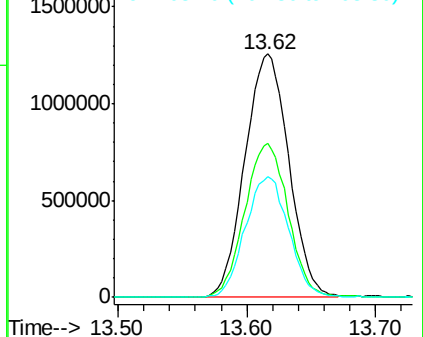
9/20/2019 12:44:06 AM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 11.860 ppbv

RT: 14.76 min Scan# 3723

Delta R.T. 0.00 min

Lab File: VL034176.D

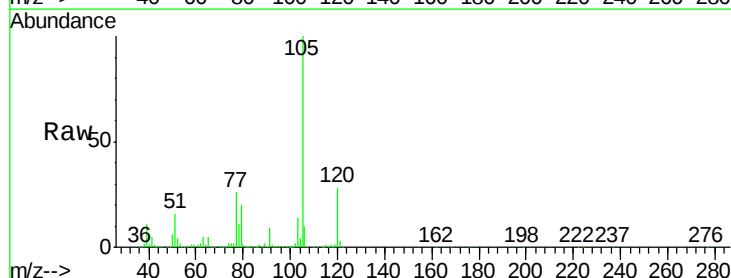
Acq: 17 Sep 2019 8:07

Tgt Ion:105 Resp: 4853285

Ion Ratio Lower Upper

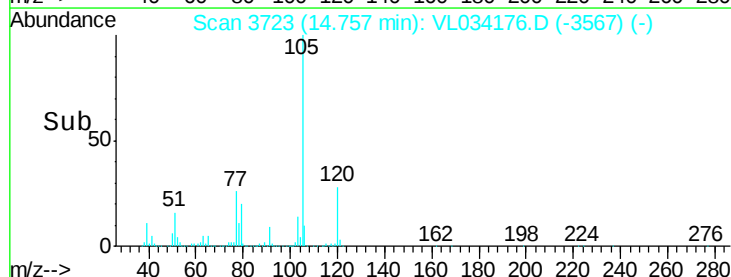
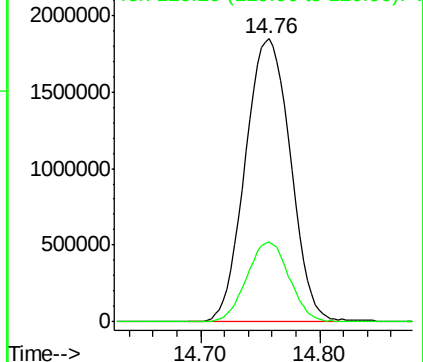
105 100

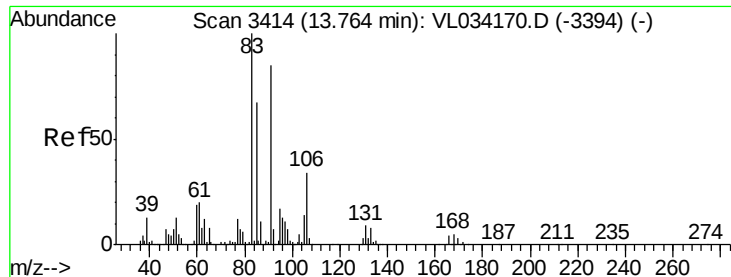
120 26.7 20.7 31.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 10.947 ppbv

RT: 13.77 min Scan# 3415

Delta R.T. 0.00 min

Lab File: VL034176.D

Acq: 17 Sep 2019 8:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 83 Resp: 2810161

Ion Ratio Lower Upper

83 100

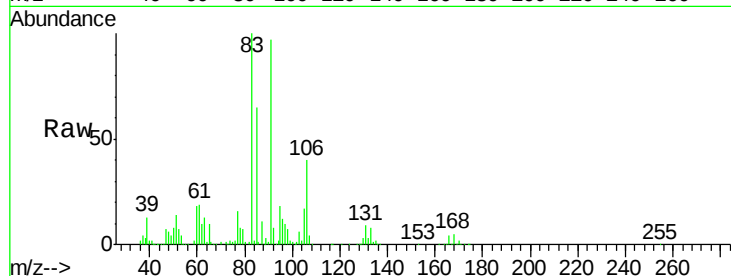
131 8.6 4.3 12.8

85 65.4 32.8 98.4

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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

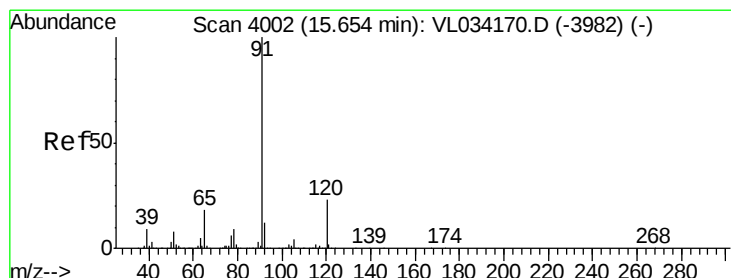
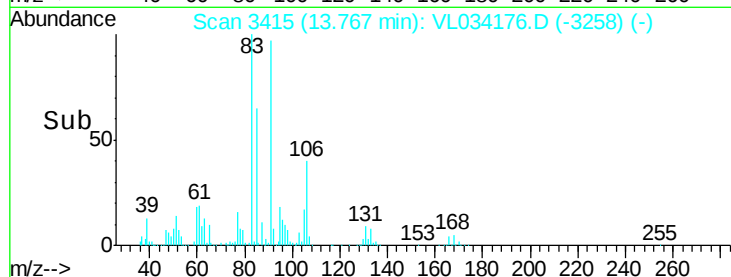
13.77

1000000

500000

0

Time-->



#64

n-propylbenzene

Concen: 12.876 ppbv

RT: 15.65 min Scan# 4001

Delta R.T. -0.00 min

Lab File: VL034176.D

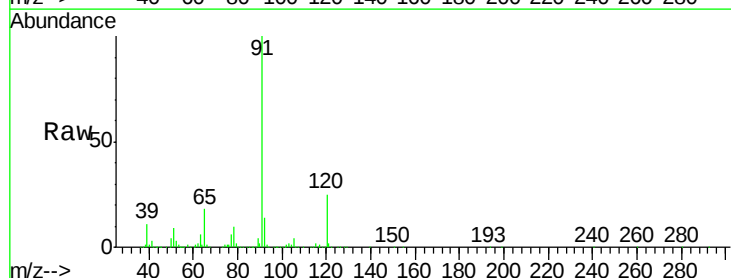
Acq: 17 Sep 2019 8:07

Tgt Ion: 120 Resp: 1321469

Ion Ratio Lower Upper

120 100

91 457.2 378.2 567.2



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

2500000

2000000

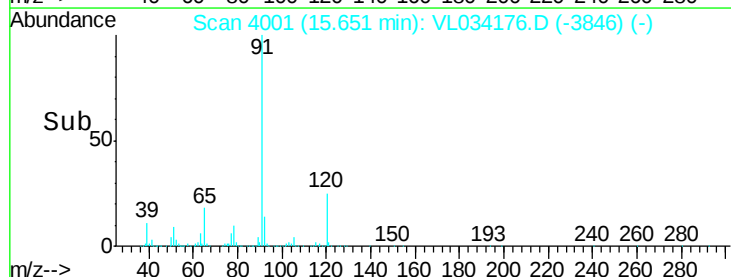
1500000

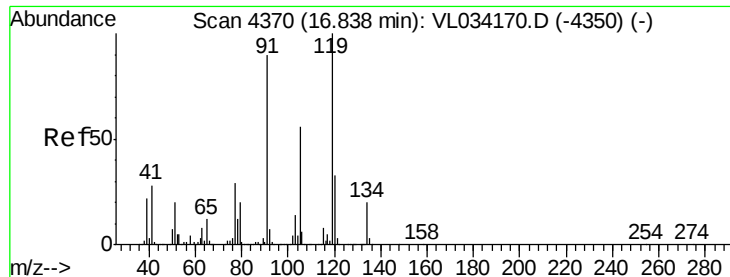
1000000

500000

0

Time-->





#65

tert-Butylbenzene

Concen: 11.726 ppbv m

RT: 16.84 min Scan# 4372

Delta R.T. 0.01 min

Lab File: VL034176.D

Acq: 17 Sep 2019 8:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:119 Resp: 4150430

Ion Ratio Lower Upper

119 100

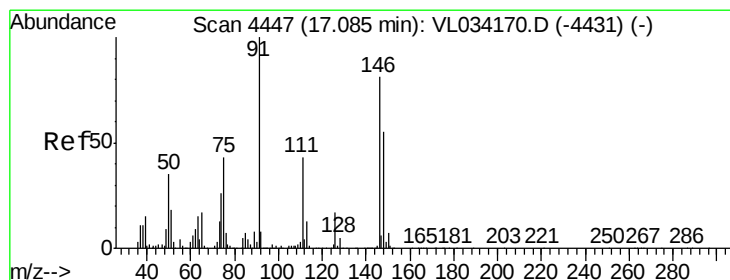
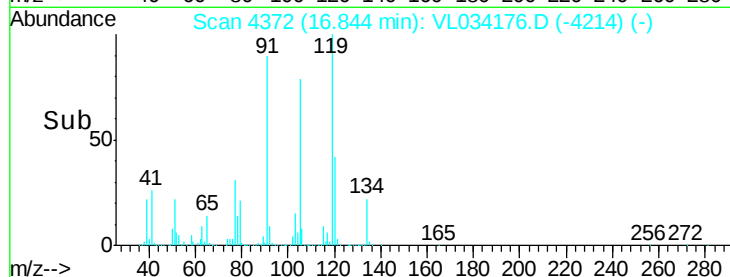
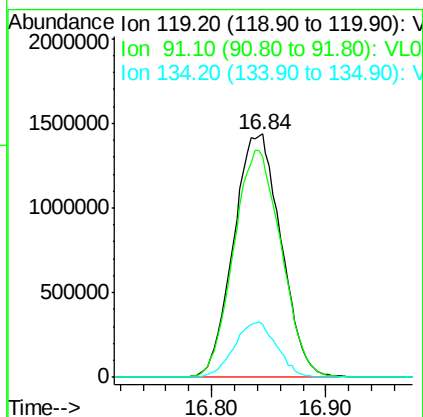
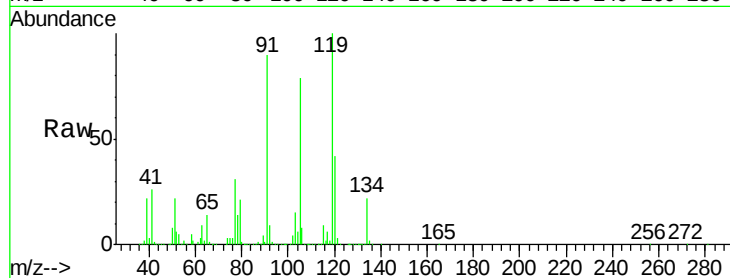
91 93.6 74.9 112.3

134 20.5 15.8 23.6

Manual Integrations
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#66

Benzyl Chloride

Concen: 17.930 ppbv

RT: 17.09 min Scan# 4448

Delta R.T. 0.00 min

Lab File: VL034176.D

Acq: 17 Sep 2019 8:07

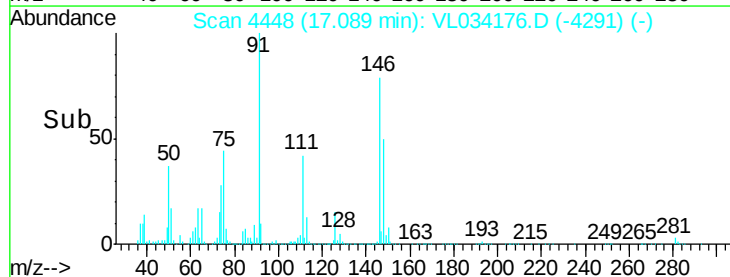
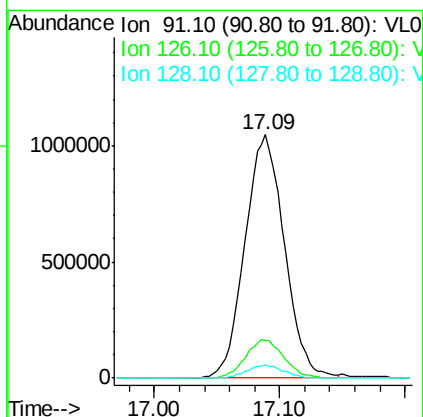
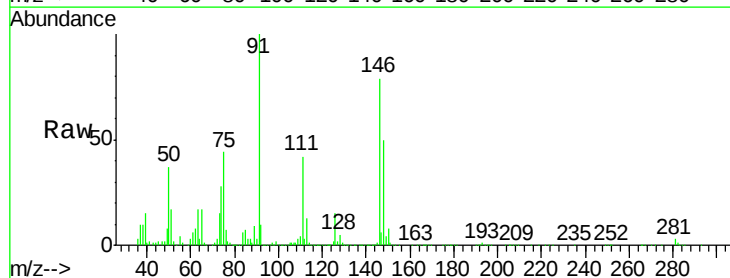
Tgt Ion: 91 Resp: 2295154

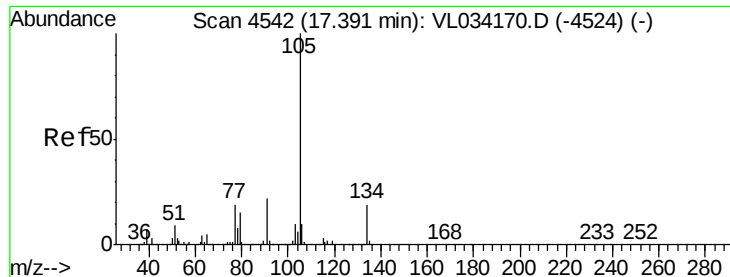
Ion Ratio Lower Upper

91 100

126 15.6 12.6 19.0

128 5.1 4.0 6.0





#67

sec-Butylbenzene

Concen: 11.532 ppbv

RT: 17.39 min Scan# 4541

Delta R.T. -0.00 min

Lab File: VL034176.D

Acq: 17 Sep 2019 8:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 5878186

Ion Ratio Lower Upper

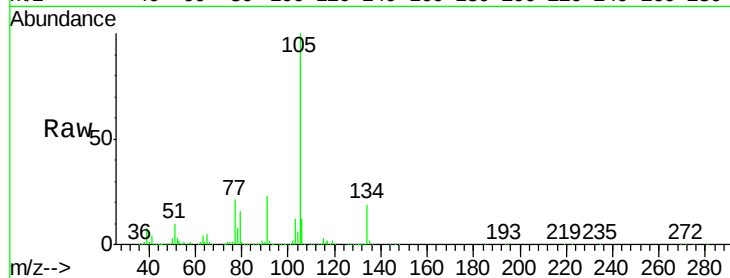
105 100

134 19.2 14.6 22.0

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

2500000

2000000

1500000

1000000

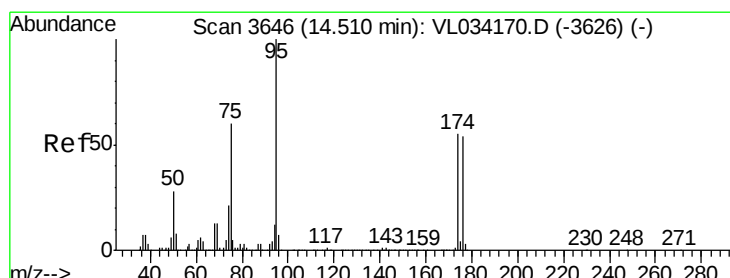
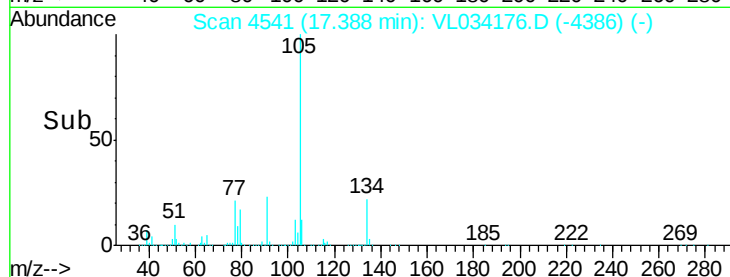
500000

0

17.39

17.30 17.40 17.50

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 10.329 ppbv

RT: 14.51 min Scan# 3646

Delta R.T. 0.00 min

Lab File: VL034176.D

Acq: 17 Sep 2019 8:07

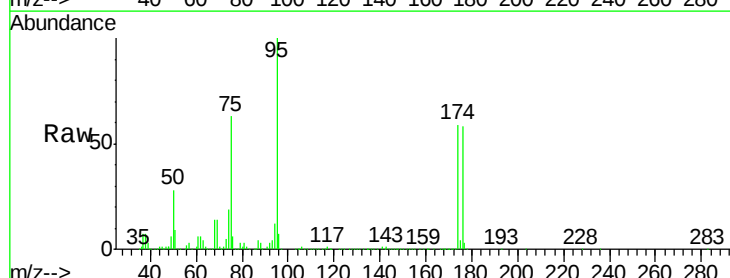
Tgt Ion: 95 Resp: 2003532

Ion Ratio Lower Upper

95 100

174 58.1 45.1 67.7

175 4.2 3.3 4.9



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

1000000

800000

600000

400000

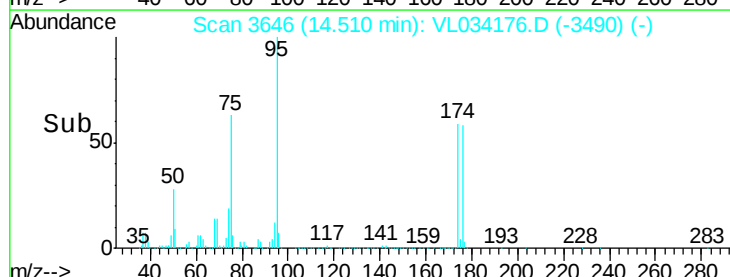
200000

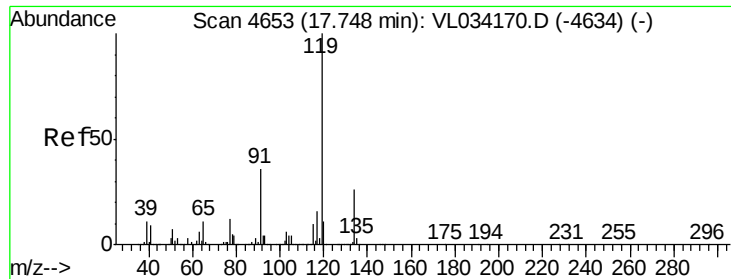
0

14.51

14.40 14.50 14.60

Time-->





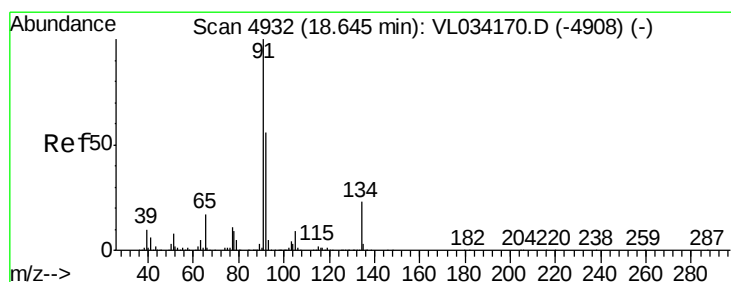
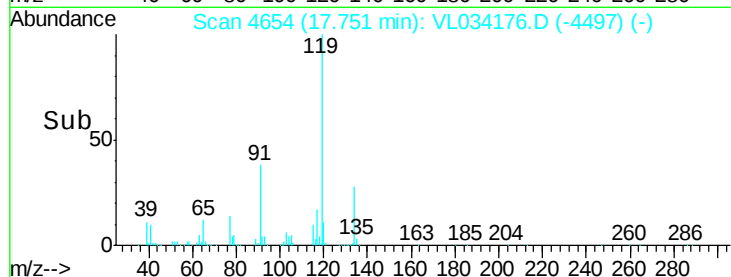
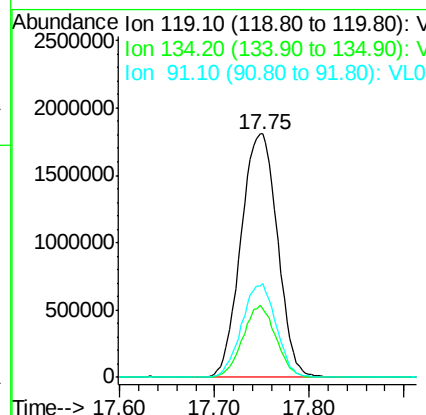
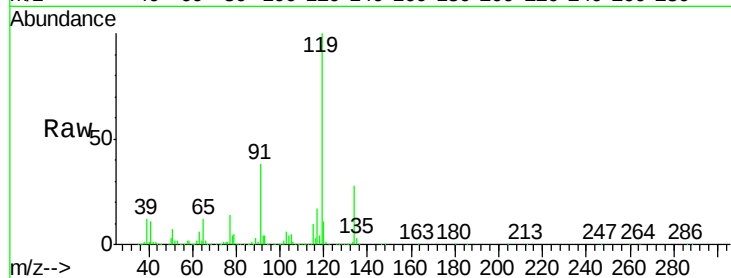
#69
 p-Isopropyltoluene
 Concen: 11.885 ppbv
 RT: 17.75 min Scan# 4654
 Delta R.T. 0.00 min
 Lab File: VL034176.D
 Acq: 17 Sep 2019 8:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.8	20.6	30.8
91	36.2	27.6	41.4

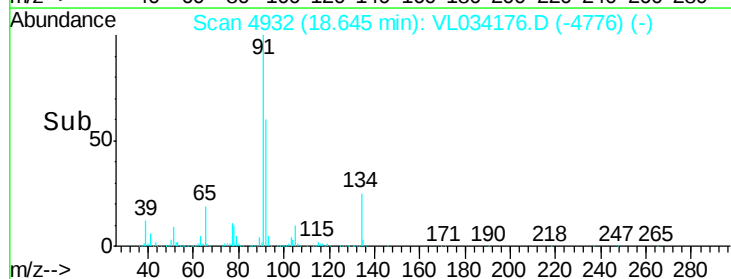
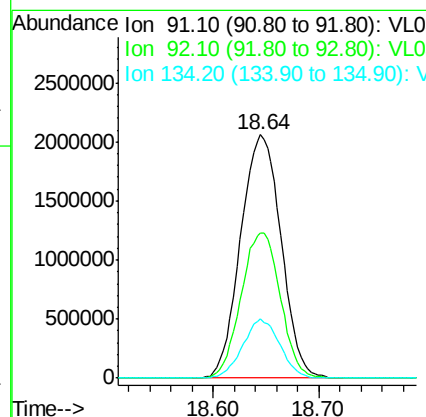
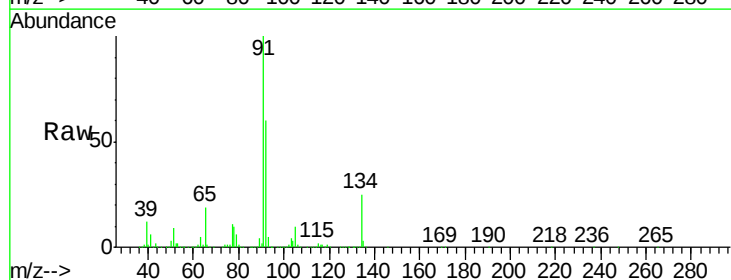
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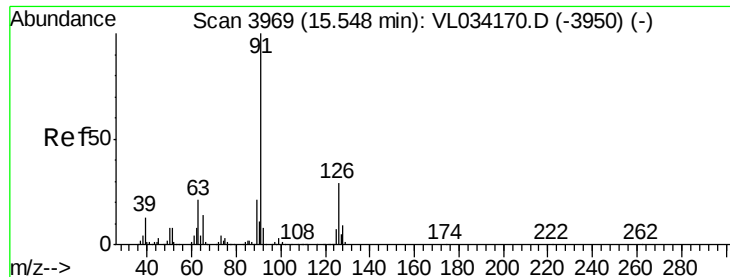
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#70
 n-Butylbenzene
 Concen: 11.784 ppbv
 RT: 18.64 min Scan# 4932
 Delta R.T. 0.00 min
 Lab File: VL034176.D
 Acq: 17 Sep 2019 8:07

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.1	44.8	67.2
134	22.4	17.3	25.9





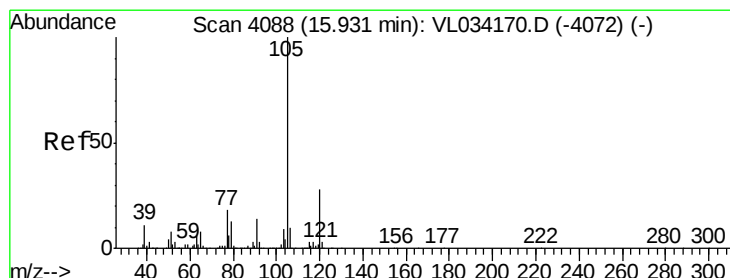
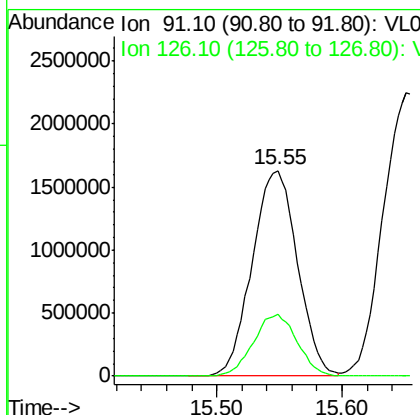
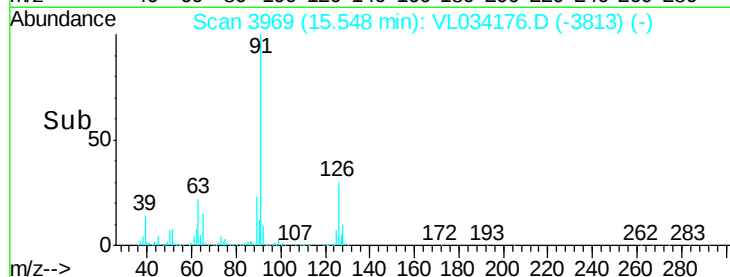
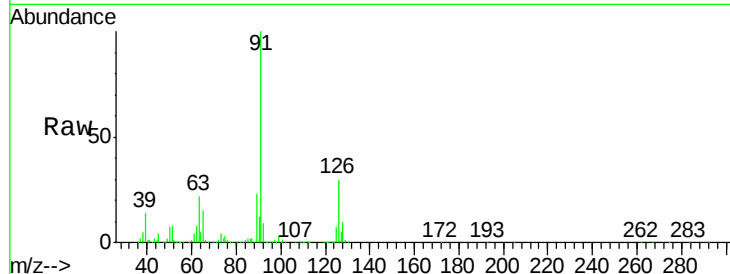
#71
 2-Chlorotoluene
 Concen: 12.240 ppbv
 RT: 15.55 min Scan# 3969
 Delta R.T. 0.00 min
 Lab File: VL034176.D
 Acq: 17 Sep 2019 8:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 91 Resp: 4093108
 Ion Ratio Lower Upper
 91 100
 126 29.1 11.2 45.0

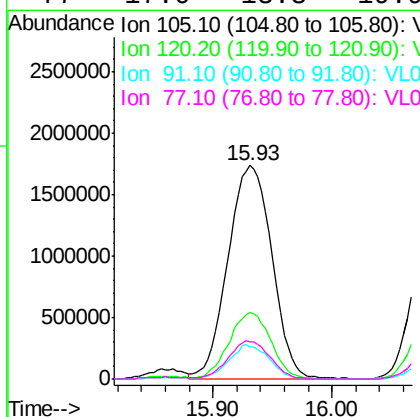
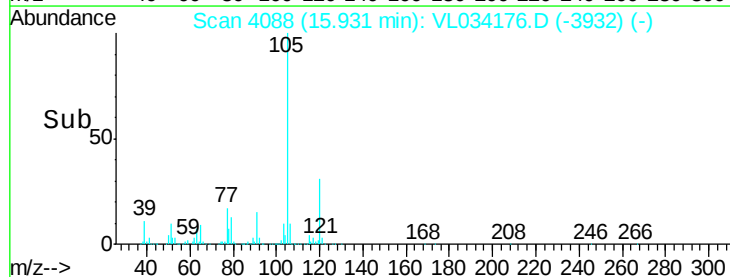
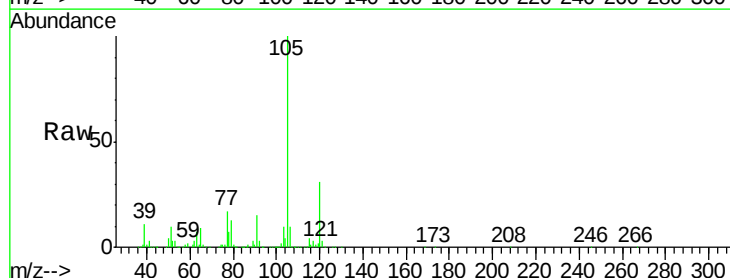
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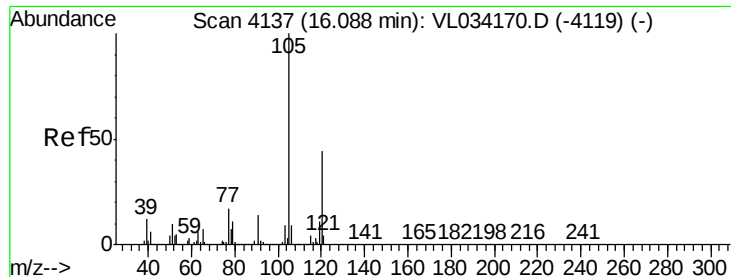
MMDadoda
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#72
 4-Ethyltoluene
 Concen: 12.473 ppbv
 RT: 15.93 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: VL034176.D
 Acq: 17 Sep 2019 8:07

Tgt Ion: 105 Resp: 4431377
 Ion Ratio Lower Upper
 105 100
 120 29.8 23.3 34.9
 91 14.7 11.4 17.2
 77 17.0 13.3 19.9





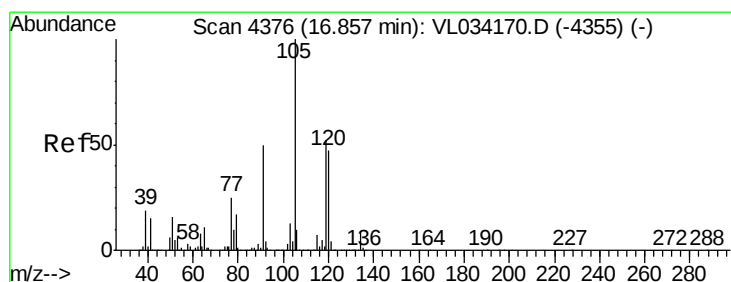
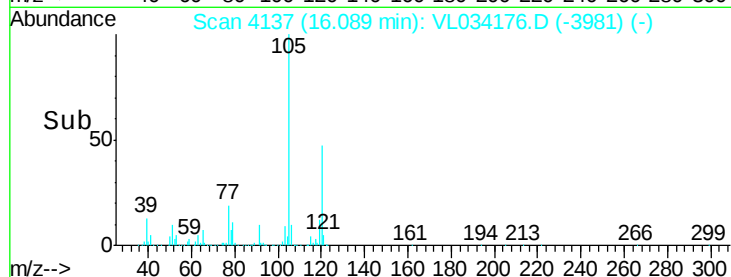
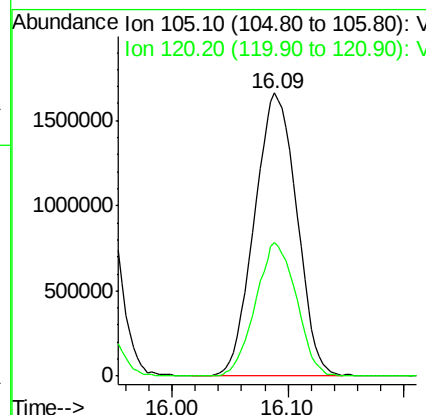
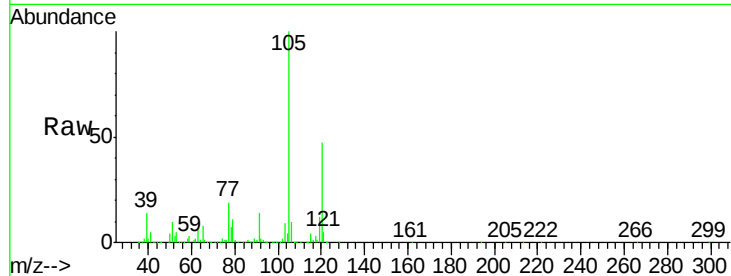
#73
 1,3,5-Trimethylbenzene
 Concen: 12.181 ppbv
 RT: 16.09 min Scan# 4137
 Delta R.T. 0.00 min
 Lab File: VL034176.D
 Acq: 17 Sep 2019 8:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:105 Resp: 4205258
 Ion Ratio Lower Upper
 105 100
 120 47.1 35.6 53.4

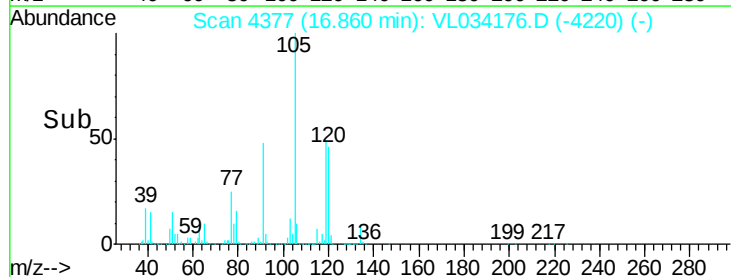
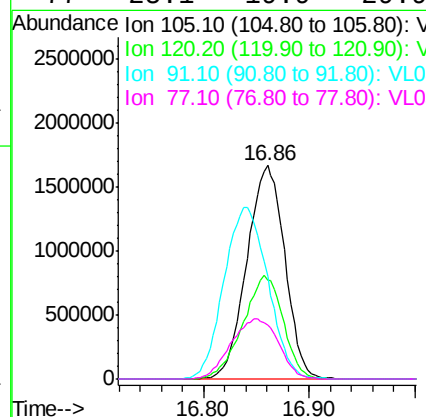
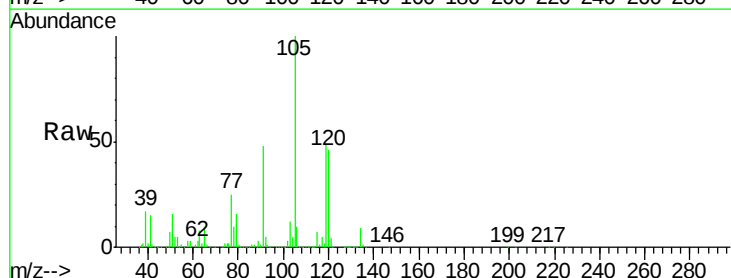
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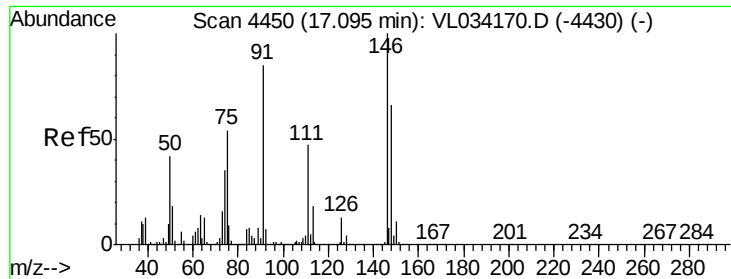
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#74
 1,2,4-Trimethylbenzene
 Concen: 11.678 ppbv
 RT: 16.86 min Scan# 4377
 Delta R.T. 0.00 min
 Lab File: VL034176.D
 Acq: 17 Sep 2019 8:07

Tgt Ion:105 Resp: 4165949
 Ion Ratio Lower Upper
 105 100
 120 45.9 37.5 56.3
 91 47.9 41.1 61.7
 77 25.1 19.9 29.9





#75

1,3-Dichlorobenzene

Concen: 12.451 ppbv

RT: 17.09 min Scan# 4450

Delta R.T. 0.00 min

Lab File: VL034176.D

Acq: 17 Sep 2019 8:07

Instrument :

MSVOA_L

ClientSampled :

VSTDIC015

Tot Ion:146 Resp: 2353958

Ion Ratio Lower Upper

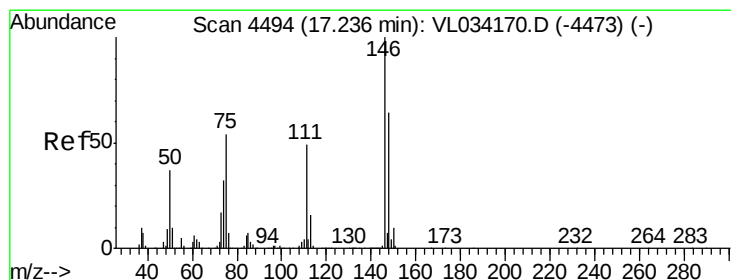
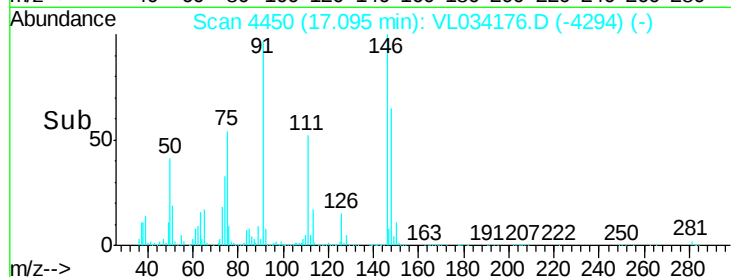
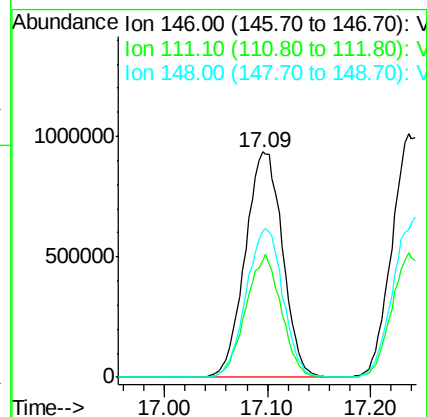
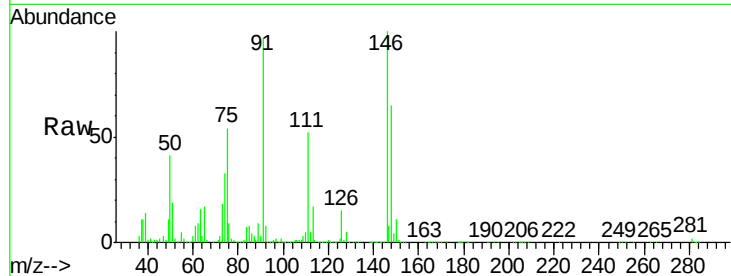
146 100

111 51.7 25.9 77.8

148 65.1 32.6 97.7

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#76

1,4-Dichlorobenzene

Concen: 12.244 ppbv

RT: 17.24 min Scan# 4494

Delta R.T. 0.00 min

Lab File: VL034176.D

Acq: 17 Sep 2019 8:07

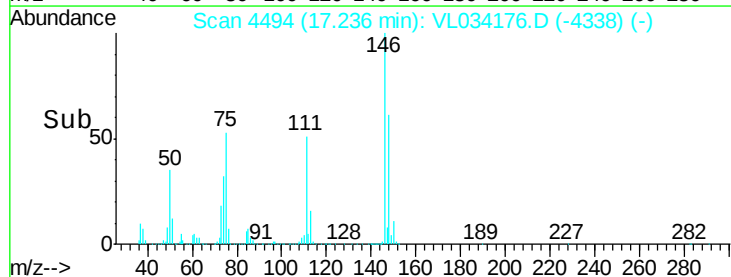
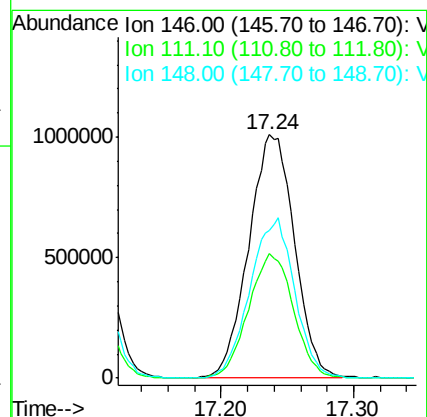
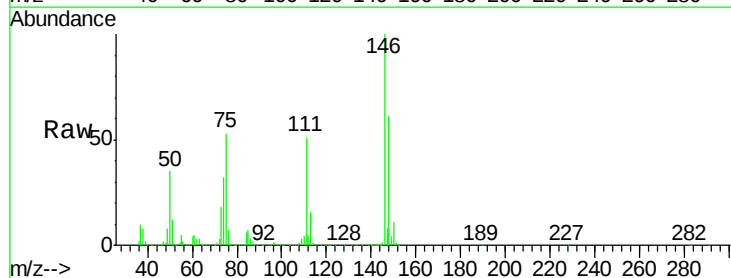
Tgt Ion:146 Resp: 2420643

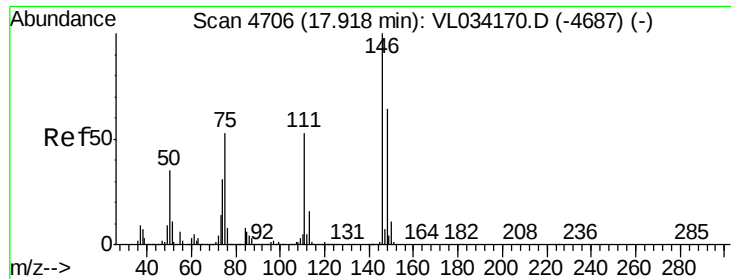
Ion Ratio Lower Upper

146 100

111 50.4 24.6 74.0

148 65.0 32.4 97.0





#77

1,2-Dichlorobenzene

Concen: 12.266 ppbv

RT: 17.91 min Scan# 4705

Delta R.T. -0.00 min

Lab File: VL034176.D

Acq: 17 Sep 2019 8:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 2370730

Ion Ratio Lower Upper

146 100

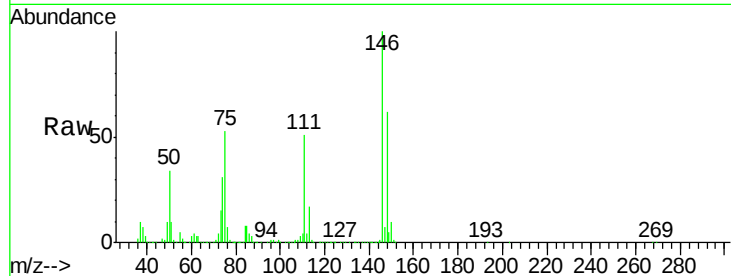
111 52.5 26.1 78.3

148 64.8 31.9 95.9

Manual Integrations
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MMDadoda

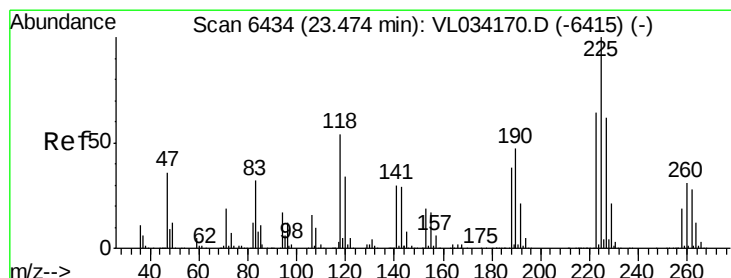
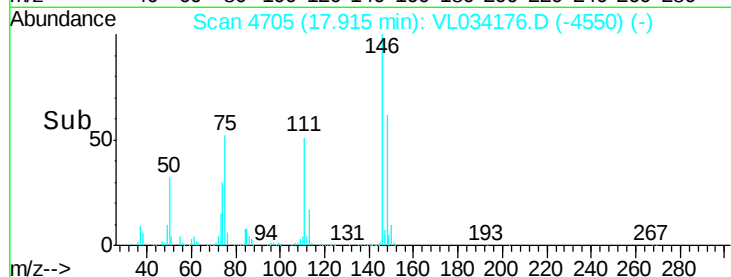
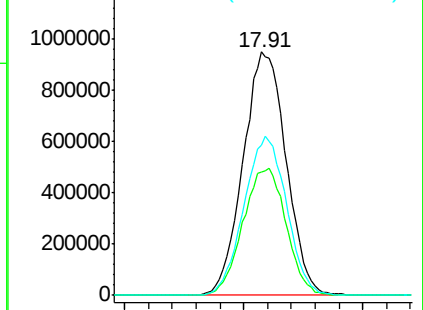
9/20/2019 12:44:06 AM



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 11.769 ppbv

RT: 23.47 min Scan# 6434

Delta R.T. 0.00 min

Lab File: VL034176.D

Acq: 17 Sep 2019 8:07

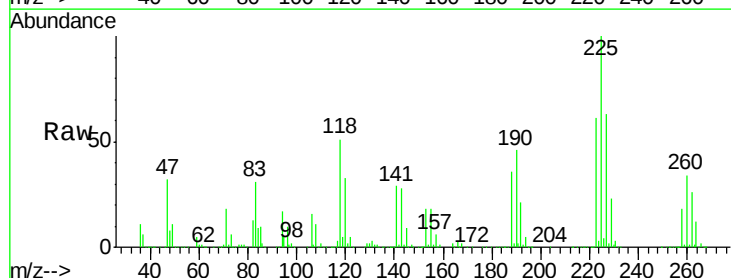
Tgt Ion:225 Resp: 1535409

Ion Ratio Lower Upper

225 100

223 63.0 51.7 77.5

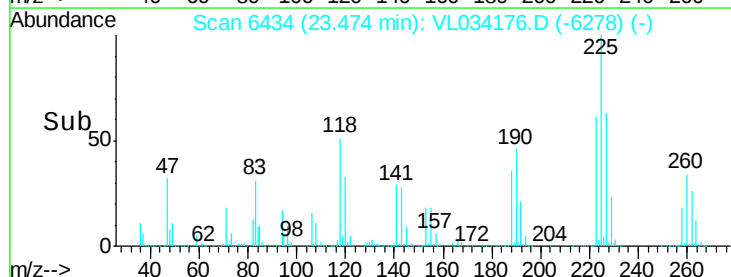
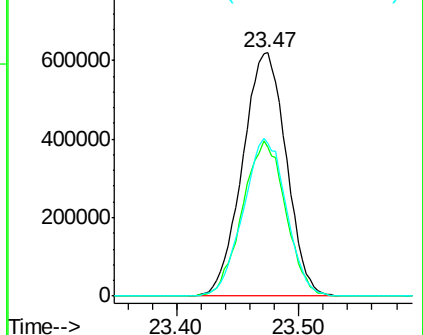
227 63.8 52.1 78.1

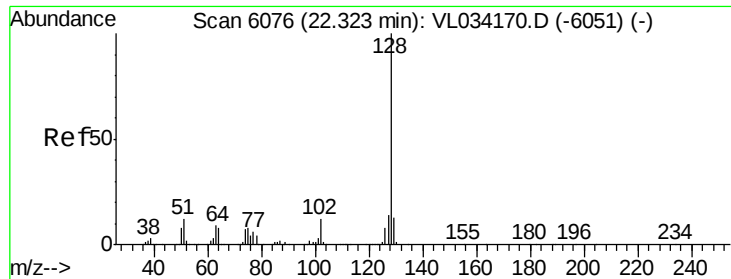


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 12.485 ppbv

RT: 22.32 min Scan# 6076

Delta R.T. 0.00 min

Lab File: VL034176.D

Acq: 17 Sep 2019 8:07

Instrument :

MSVOA_L

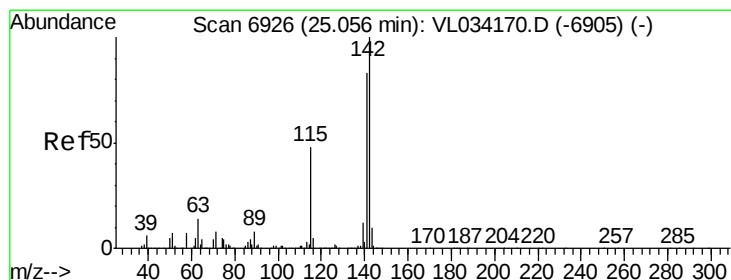
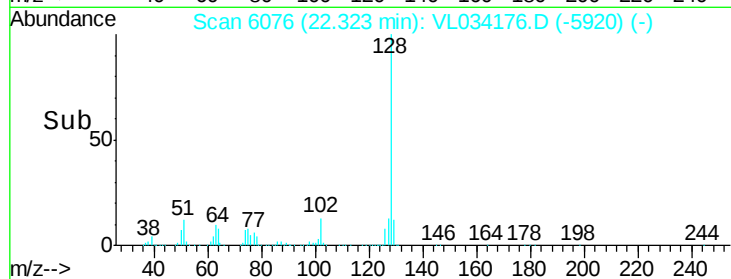
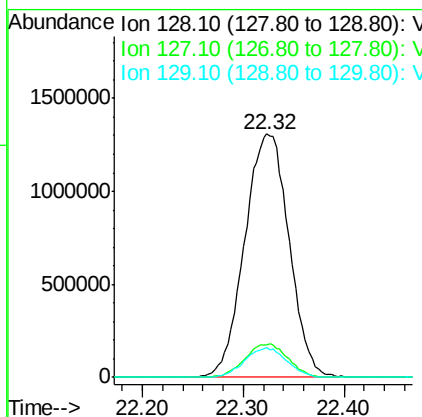
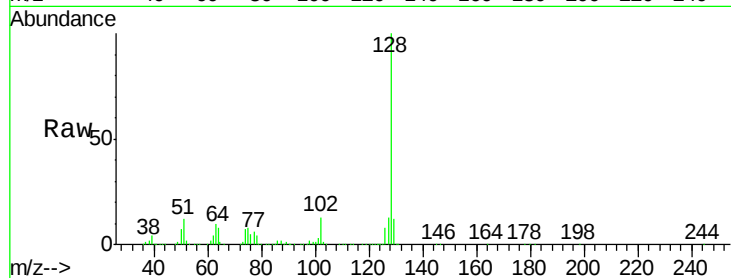
ClientSampleId :

VSTDIC015

Tot Ion:	128	Resp:	3984307
Ion	Ratio	Lower	Upper
128	100		
127	13.5	11.1	16.7
129	12.1	10.2	15.4

Manual Integrations
APPROVED

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9/20/2019 12:44:06 AM



#80

Naphthalene, 2-methyl-

Concen: 11.257 ppbv

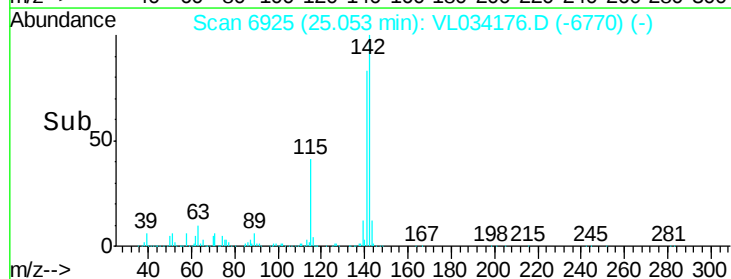
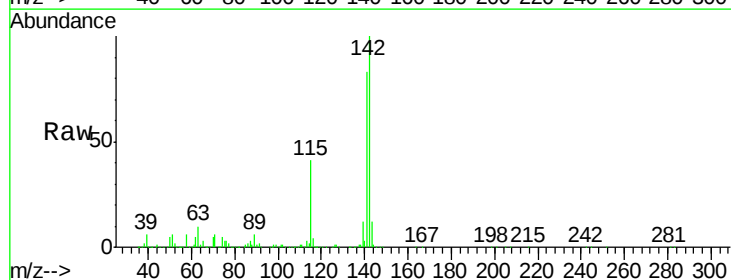
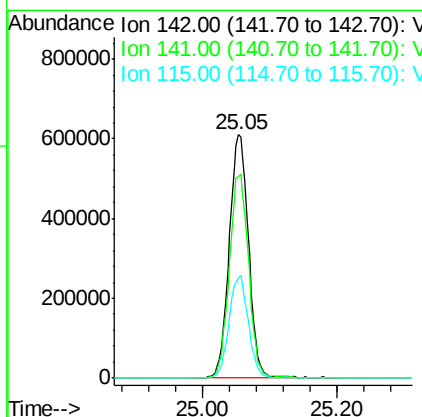
RT: 25.05 min Scan# 6925

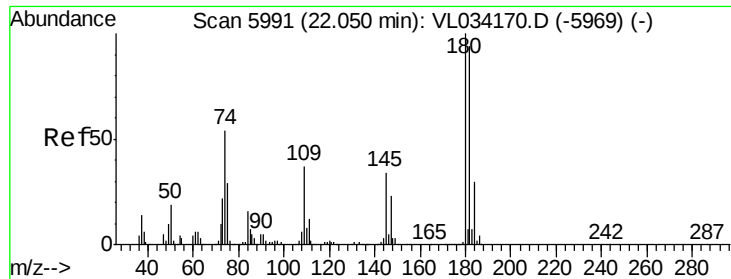
Delta R.T. -0.00 min

Lab File: VL034176.D

Acq: 17 Sep 2019 8:07

Tgt Ion:	142	Resp:	1216637
Ion	Ratio	Lower	Upper
142	100		
141	83.9	67.6	101.4
115	42.4	36.9	55.3





#81
 1,2,4-Trichlorobenzene
 Concen: 12.434 ppbv
 RT: 22.05 min Scan# 5991
 Delta R.T. 0.00 min
 Lab File: VL034176.D
 Acq: 17 Sep 2019 8:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.0	77.4	116.2
184	31.5	25.0	37.4

Manual Integrations
 APPROVED

MMDadoda
 9/20/2019 12:44:06 AM

