

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091819\
 Data File : VL034195.D
 Acq On : 19 Sep 2019 10:34
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 9/20/2019 12:37:20 AM

Quant Time: Sep 19 11:13:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 19
 QLast Update : Wed Sep 18 12:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1159054	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.22	114	1950494	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.16	117	2101716m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.50	95	1823178	9.98	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	1435392	8.384	ppbv 99
3) Chlorodifluoromethane	2.97	51	1241454	9.135	ppbv 99
4) Chloromethane	3.12	50	749245	9.382	ppbv 97
5) Vinyl Chloride	3.24	62	659773	9.040	ppbv 99
6) Bromomethane	3.47	94	313794	9.215	ppbv 95
7) Chloroethane	3.55	64	241201	9.455	ppbv 98
8) Dichlorotetrafluoroethane	3.17	85	1381112	9.140	ppbv 99
9) Propene	2.99	41	609479	9.090	ppbv 100
10) Heptane	8.17	43	1623530	9.291	ppbv 99
11) Trichlorofluoromethane	3.95	101	1473746	9.457	ppbv 96
12) 1,1,2-Trichlorotrifluoroet	4.49	101	958847	9.402	ppbv 99
13) Ethanol	3.60	45	136056	8.380	ppbv 97
14) Bromoethene	3.73	108	411255	9.863	ppbv 99
15) Acetone	3.84	43	1260580	8.115	ppbv 98
16) 1,3-Butadiene	3.31	39	657378	9.697	ppbv 98
17) tert-Butyl alcohol	4.29	59	1081319	10.986	ppbv 100
18) 1,1-Dichloroethene	4.29	96	430312	9.674	ppbv 95
19) Isopropyl Alcohol	3.97	45	987763	10.340	ppbv 100
20) Methylene Chloride	4.35	84	395330	8.826	ppbv 97
21) Allyl Chloride	4.42	41	884718	10.083	ppbv 99
22) trans-1,2-Dichloroethene	4.90	96	435604	9.788	ppbv 97
23) Vinyl Acetate	5.09	43	2128696	9.299	ppbv 99
24) 1,1-Dichloroethane	5.03	63	1390640	9.022	ppbv 99
25) Ethyl Acetate	5.70	43	2604113	8.865	ppbv 100
26) Hexane	5.71	57	1094645	8.958	ppbv 99
27) Carbon Disulfide	4.56	76	1226796	10.886	ppbv 99
28) Methyl tert-Butyl Ether	5.05	73	1678420	9.248	ppbv 99
29) Chloroform	5.78	83	1634945	9.363	ppbv 99
30) Cyclohexane	7.17	84	815839	9.248	ppbv 99
31) cis-1,2-Dichloroethene	5.57	61	1172703	9.414	ppbv 100
32) 1,1,1-Trichloroethane	6.55	97	1568555	9.314	ppbv 99
34) 2-Butanone	5.26	43	1814946	9.113	ppbv 100
35) Carbon Tetrachloride	7.06	117	1574131	9.714	ppbv 98
36) Benzene	6.93	78	1975874	9.172	ppbv 98
37) 1,2-Dichloroethane	6.34	62	1494831	9.756	ppbv 100
38) Trichloroethene	7.89	130	668494	8.685	ppbv 94
39) 1,2-Dichloropropane	7.66	63	873077	9.020	ppbv 98
40) 1,4-Dioxane	7.88	88	291423	9.304	ppbv # 94
41) Tetrahydrofuran	6.08	42	1069814	9.538	ppbv 99
42) Bromodichloromethane	7.84	83	1810269	9.845	ppbv 98
43) Methyl Methacrylate	8.06	69	877794	9.864	ppbv 99

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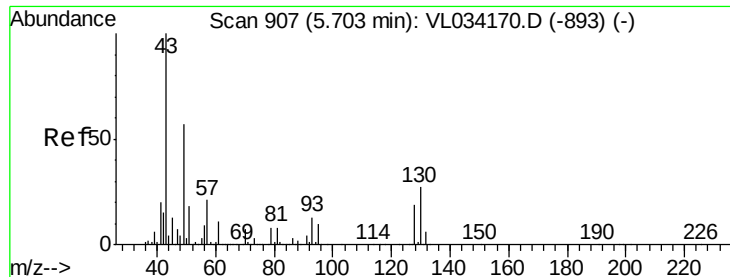
Manual Integrations
 APPROVED

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 9/20/2019 12:37:20 AM

Quant Time: Sep 19 11:13:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 19
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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	3726606	8.986	ppbv	99
45) t-1,3-Dichloropropene	9.34	75	1148237	10.913	ppbv	97
46) cis-1,3-Dichloropropene	8.76	75	1295769	10.238	ppbv	98
47) 1,1,2-Trichloroethane	9.54	97	790242	9.092	ppbv	95
48) Dibromochloromethane	10.37	129	1366474	9.920	ppbv	100
49) Bromoform	13.12	173	1109076	9.949	ppbv	99
50) 4-Methyl-2-Pentanone	8.79	43	2664827	9.194	ppbv	99
51) 2-Hexanone	10.19	43	2258819	9.286	ppbv #	99
52) Tetrachloroethene	11.29	164	594931	8.359	ppbv	94
53) Toluene	9.87	91	2175744	9.241	ppbv	100
54) 1,2-Dibromoethane	10.68	107	1187043	9.184	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.20	131	875229	9.338	ppbv	98
57) Chlorobenzene	12.22	112	1556506	8.506	ppbv	100
58) Ethyl Benzene	12.78	91	3004378m	8.859	ppbv	
59) m/p-Xylene	13.07	91	4937695m	17.579	ppbv	
60) o-Xylene	13.77	91	2438480	8.682	ppbv	98
61) Styrene	13.61	104	1792933	8.912	ppbv	99
62) Isopropylbenzene	14.75	105	3168624	8.715	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.76	83	1776068	7.712	ppbv	100
64) n-propylbenzene	15.64	120	811796	8.825	ppbv	93
65) tert-Butylbenzene	16.83	119	2655307	8.358	ppbv	99
66) Benzyl Chloride	17.08	91	1240290	11.035	ppbv	99
67) sec-Butylbenzene	17.38	105	3853780	8.483	ppbv	99
69) p-Isopropyltoluene	17.74	119	3107635	8.448	ppbv	100
70) n-Butylbenzene	18.64	91	3604517	8.415	ppbv	98
71) 2-Chlorotoluene	15.54	91	2556376	8.605	ppbv	100
72) 4-Ethyltoluene	15.92	105	2788973	8.789	ppbv	99
73) 1,3,5-Trimethylbenzene	16.08	105	2654600	8.659	ppbv	100
74) 1,2,4-Trimethylbenzene	16.85	105	2680844	8.236	ppbv	95
75) 1,3-Dichlorobenzene	17.09	146	1446099	8.280	ppbv	99
76) 1,4-Dichlorobenzene	17.22	146	1468713	8.212	ppbv	99
77) 1,2-Dichlorobenzene	17.91	146	1430066	8.090	ppbv	99
78) Hexachloro-1,3-Butadiene	23.46	225	1054169	9.004	ppbv	98
79) Naphthalene	22.31	128	2369396	8.268	ppbv	99
80) Naphthalene, 2-methyl-	25.05	142	1014921	7.616	ppbv	100
81) 1,2,4-Trichlorobenzene	22.04	180	1278324	8.053	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 904

Delta R.T. -0.01 min

Lab File: VL034195.D

Acq: 19 Sep 2019 10:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 1159054

Ion Ratio Lower Upper

49 100

128 33.9 17.6 52.9

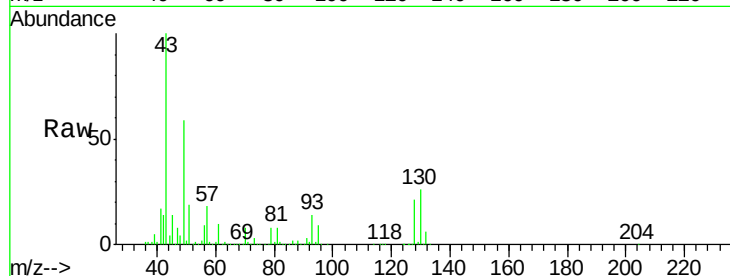
130 43.5 22.3 66.9

Manual Integrations

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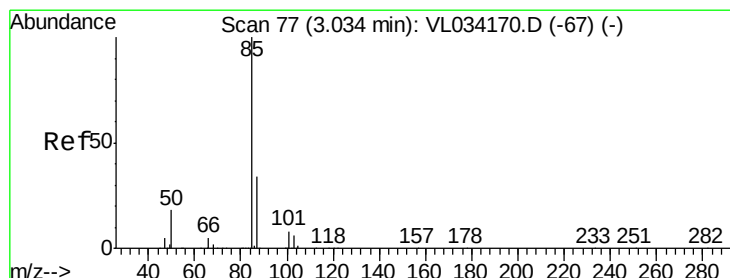
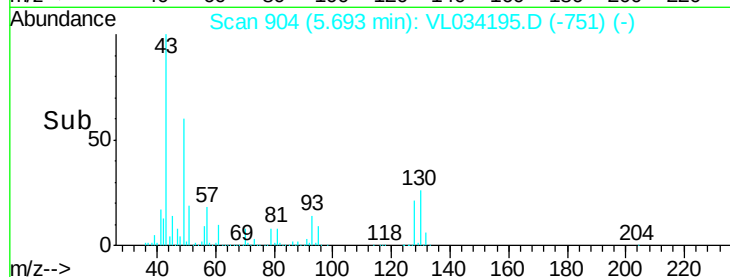
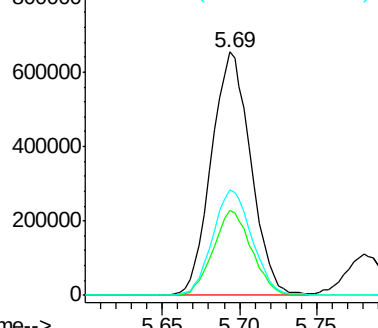
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 8.384 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.00 min

Lab File: VL034195.D

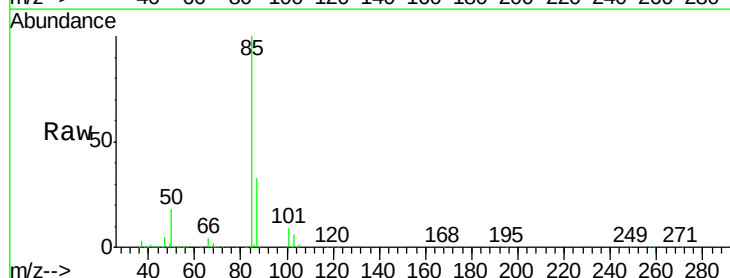
Acq: 19 Sep 2019 10:34

Tgt Ion: 85 Resp: 1435392

Ion Ratio Lower Upper

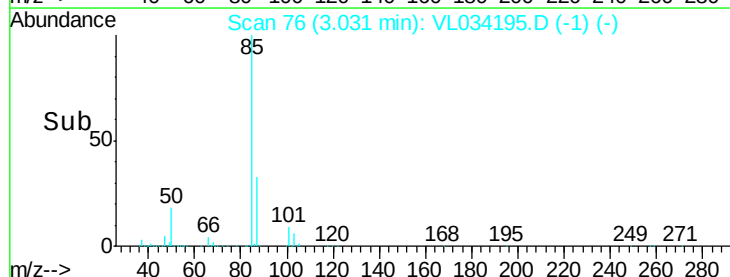
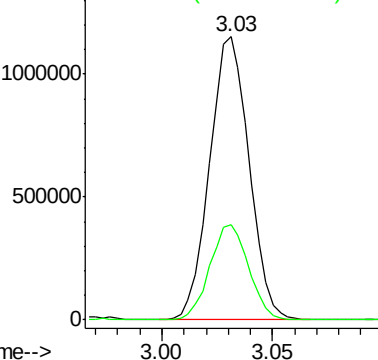
85 100

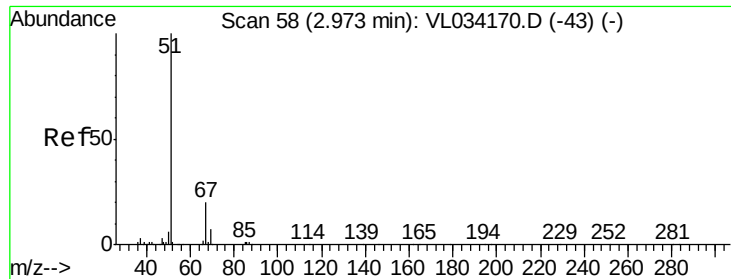
87 33.5 27.2 40.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.135 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.01 min

Lab File: VL034195.D

Acq: 19 Sep 2019 10:34

Tot Ion: 51 Resp: 1241454

Ion Ratio Lower Upper

51 100

67 18.8 14.8 22.2

Instrument :

MSVOA_L

ClientSampleId :

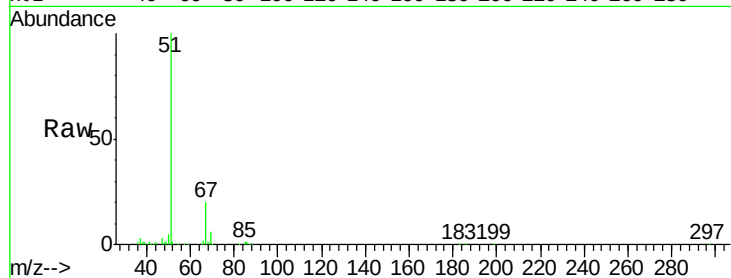
VSTDCCC010EC

Manual Integrations

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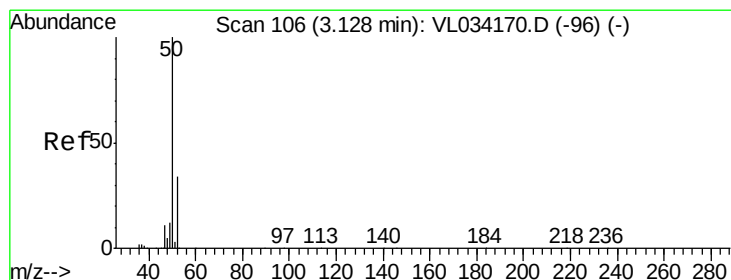
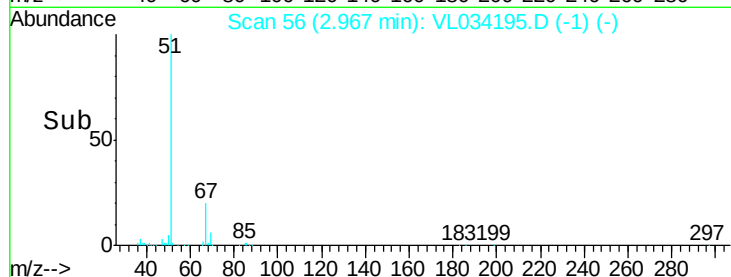
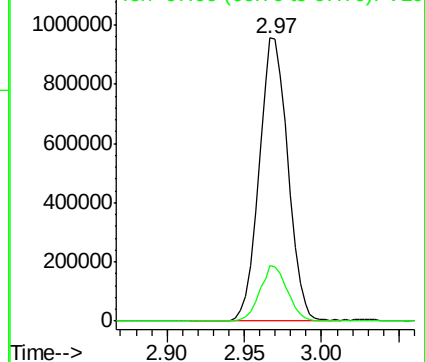
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.382 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.00 min

Lab File: VL034195.D

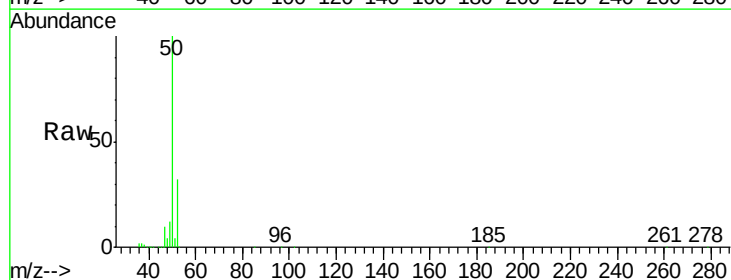
Acq: 19 Sep 2019 10:34

Tgt Ion: 50 Resp: 749245

Ion Ratio Lower Upper

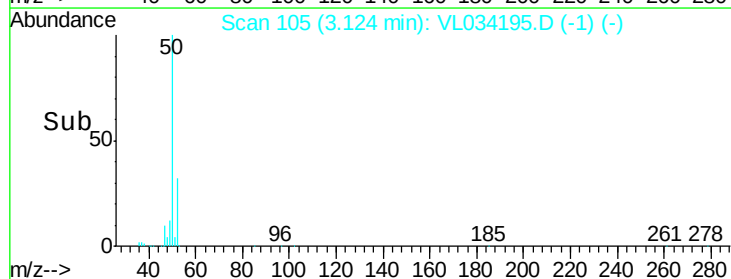
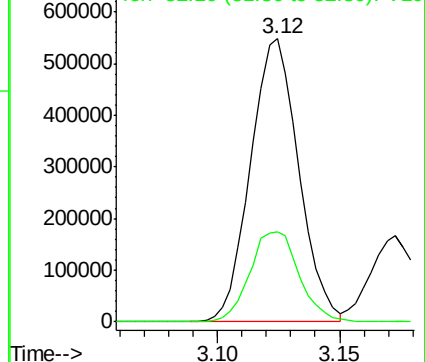
50 100

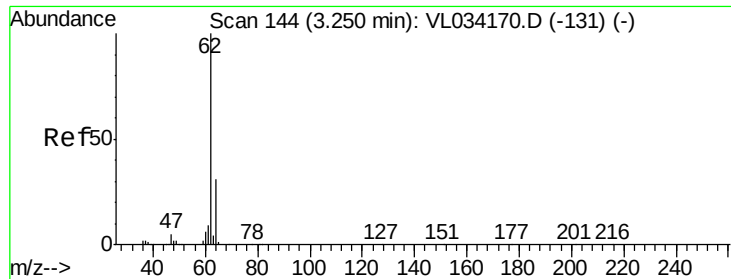
52 32.0 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.040 ppbv

RT: 3.24 min Scan# 141

Delta R.T. -0.01 min

Lab File: VL034195.D

Acq: 19 Sep 2019 10:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 659773

Ion Ratio Lower Upper

62 100

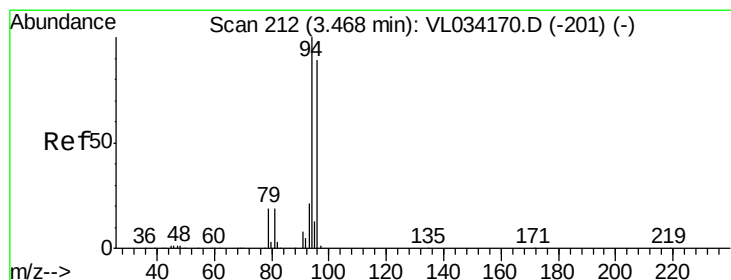
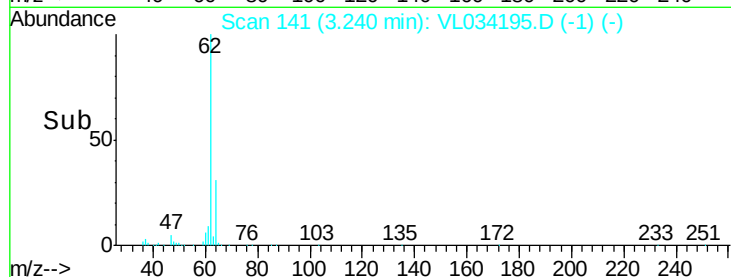
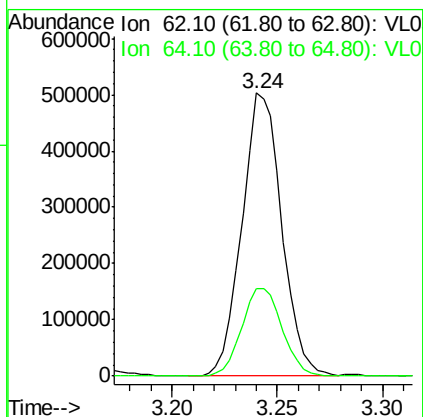
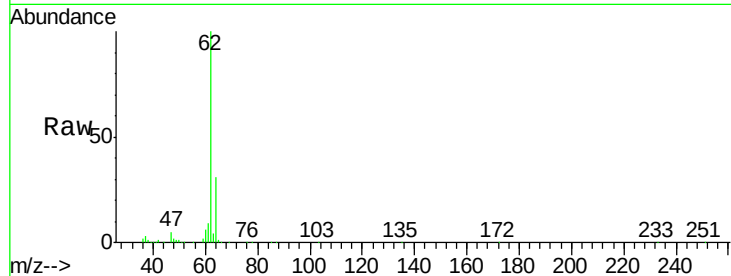
64 30.8 25.2 37.8

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#6

Bromomethane

Concen: 9.215 ppbv

RT: 3.47 min Scan# 211

Delta R.T. -0.00 min

Lab File: VL034195.D

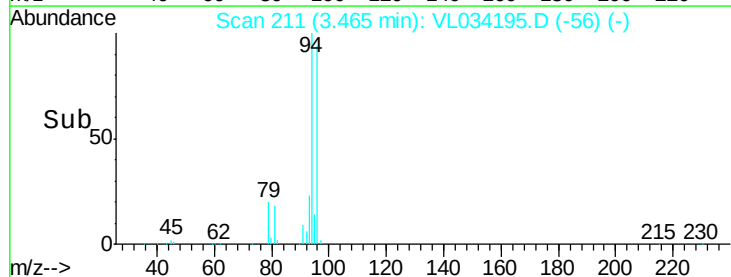
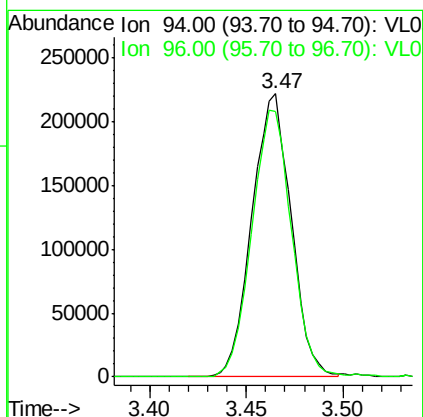
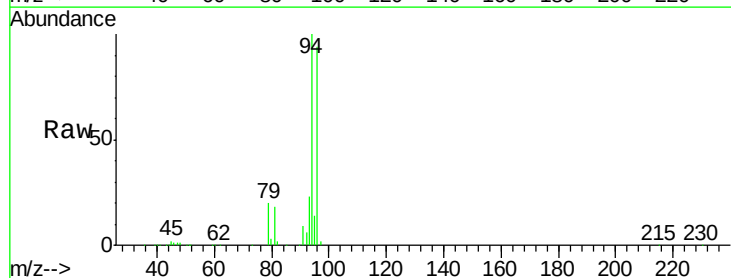
Acq: 19 Sep 2019 10:34

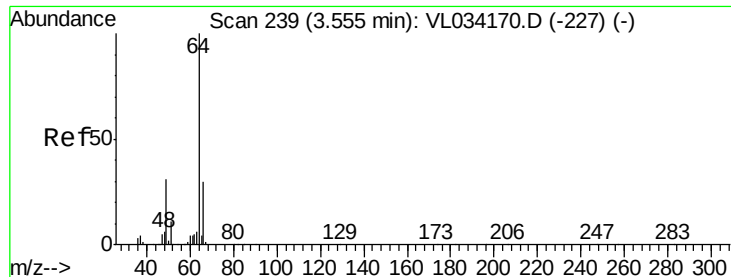
Tgt Ion: 94 Resp: 313794

Ion Ratio Lower Upper

94 100

96 93.9 71.3 106.9





#7

Chloroethane

Concen: 9.455 ppbv

RT: 3.55 min Scan# 237

Delta R.T. -0.01 min

Lab File: VL034195.D

Acq: 19 Sep 2019 10:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 241201

Ion Ratio Lower Upper

64 100

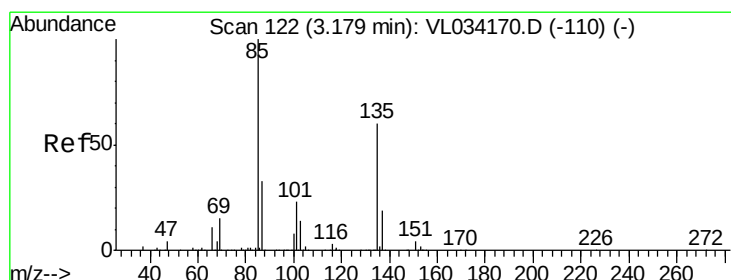
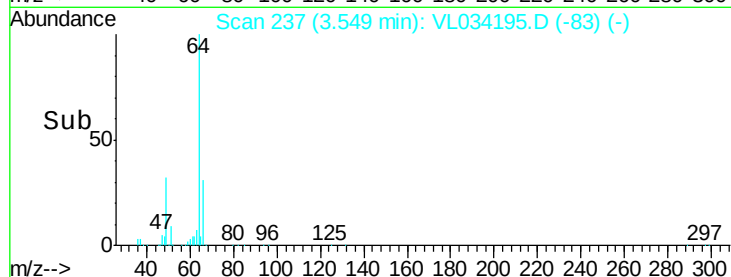
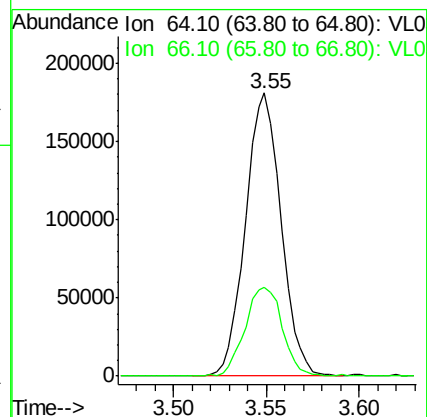
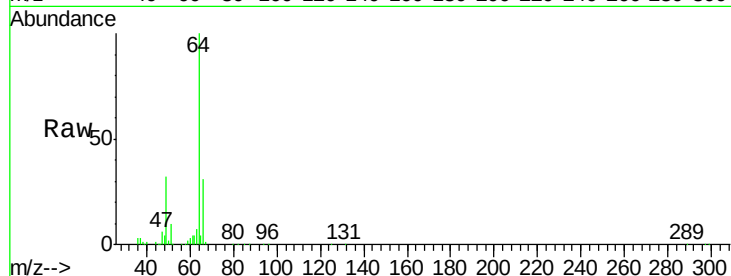
66 31.3 24.2 36.4

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 9.140 ppbv

RT: 3.17 min Scan# 120

Delta R.T. -0.01 min

Lab File: VL034195.D

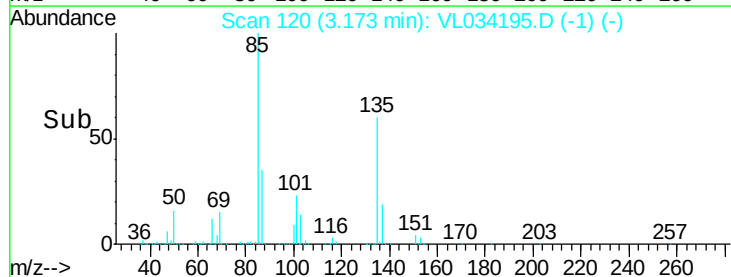
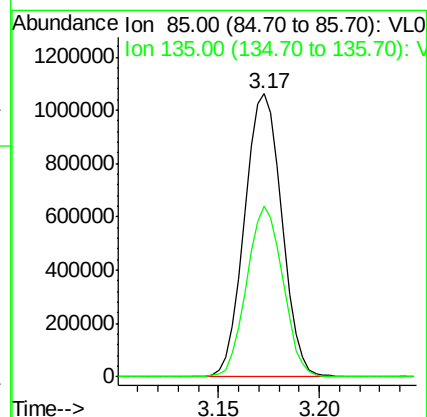
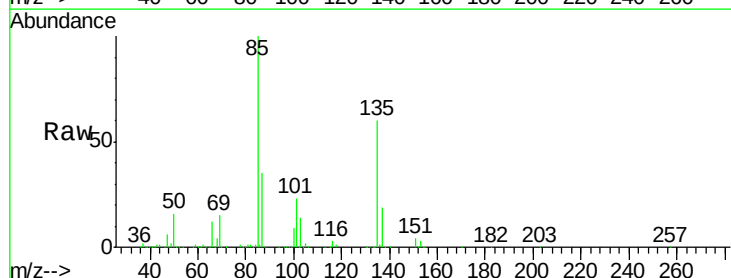
Acq: 19 Sep 2019 10:34

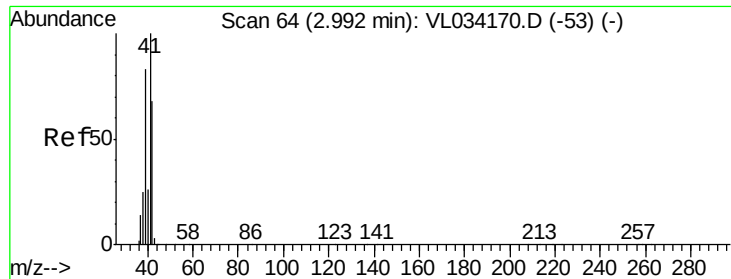
Tgt Ion: 85 Resp: 1381112

Ion Ratio Lower Upper

85 100

135 58.4 47.3 70.9





#9

Propene

Concen: 9.090 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.00 min

Lab File: VL034195.D

Acq: 19 Sep 2019 10:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 609479

Ion Ratio Lower Upper

41 100

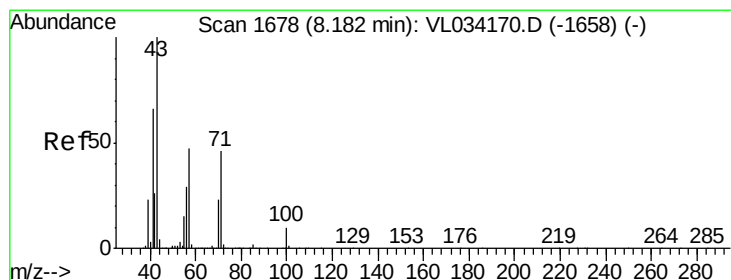
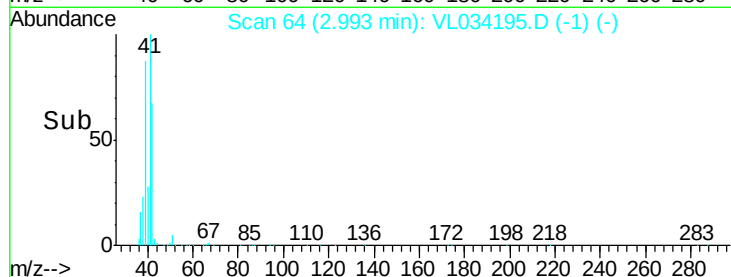
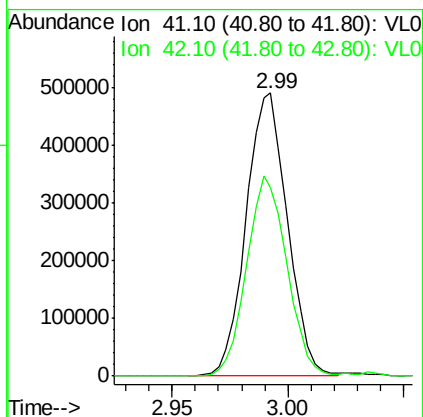
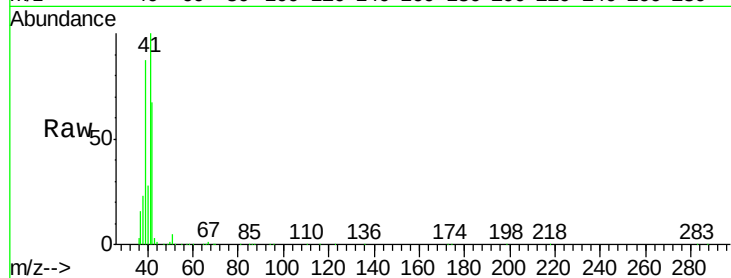
42 70.0 55.8 83.6

Manual Integrations

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#10

Heptane

Concen: 9.291 ppbv

RT: 8.17 min Scan# 1674

Delta R.T. -0.01 min

Lab File: VL034195.D

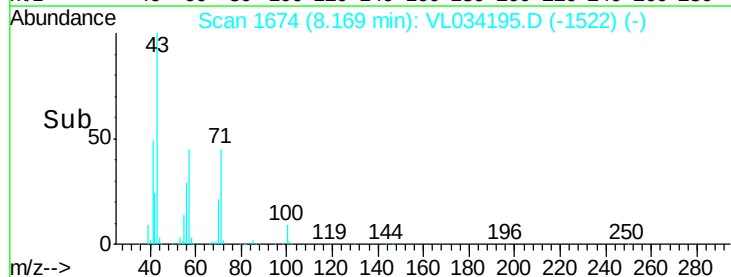
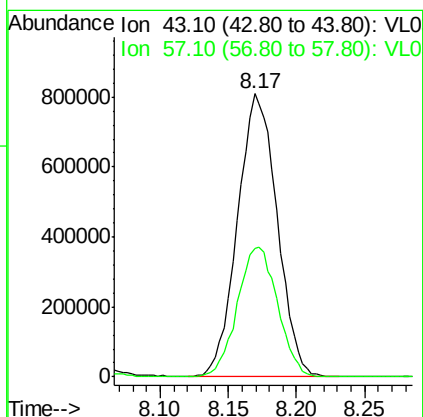
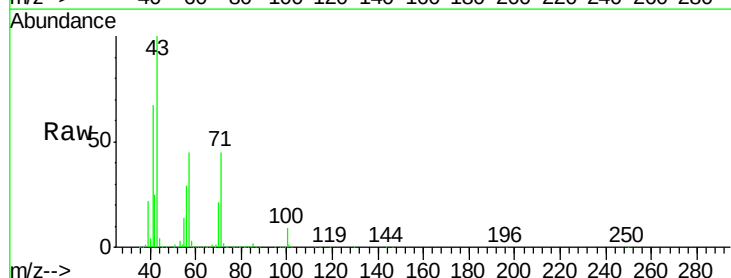
Acq: 19 Sep 2019 10:34

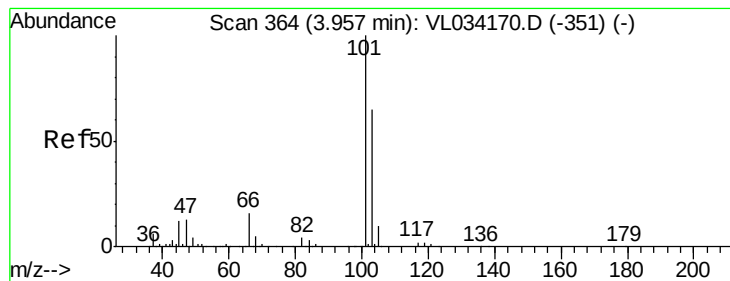
Tgt Ion: 43 Resp: 1623530

Ion Ratio Lower Upper

43 100

57 46.6 37.5 56.3





#11

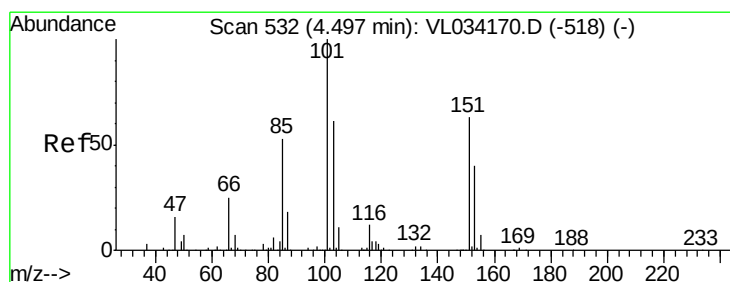
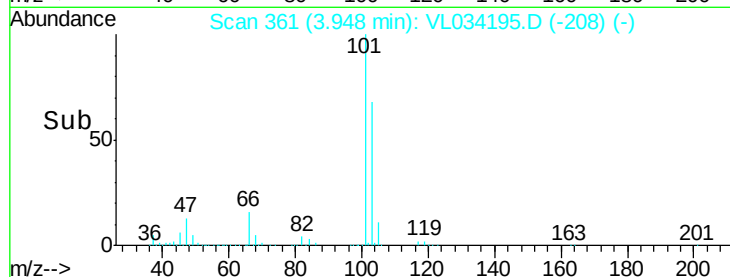
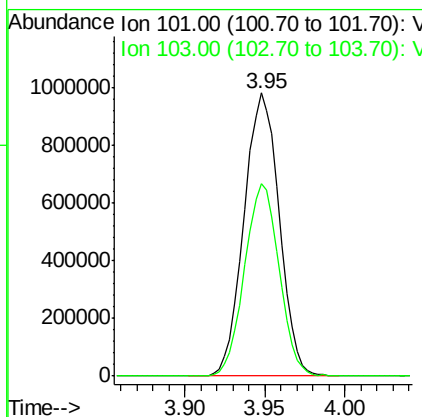
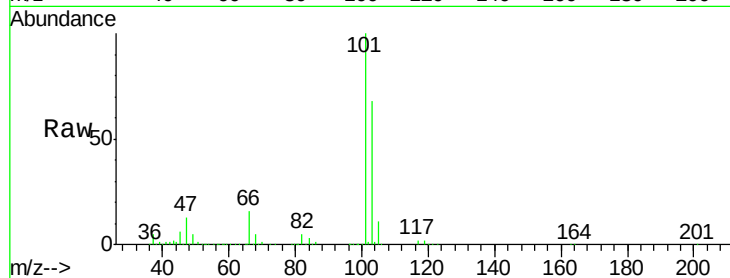
Trichlorofluoromethane
Concen: 9.457 ppbv
RT: 3.95 min Scan# 361
Delta R.T. -0.01 min
Lab File: VL034195.D
Acq: 19 Sep 2019 10:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:101 Resp: 1473746
Ion Ratio Lower Upper
101 100
103 68.1 52.1 78.1

Manual Integrations
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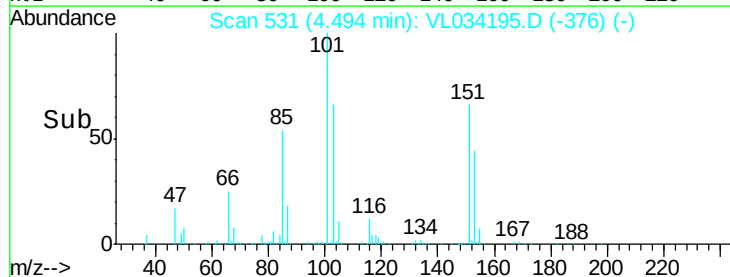
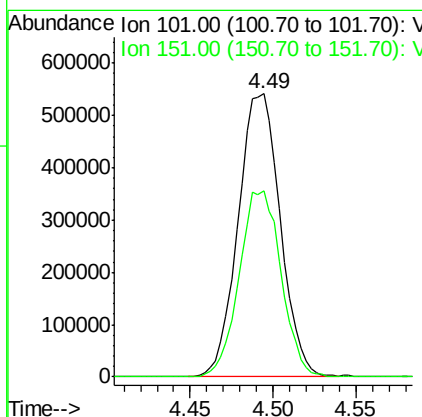
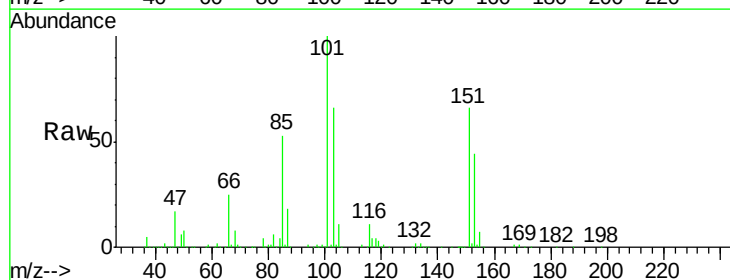
MMDadoda
9/20/2019 12:37:20 AM

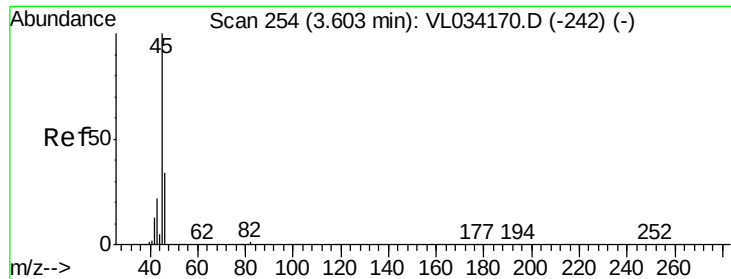


#12

1,1,2-Trichlorotrifluoroethane
Concen: 9.402 ppbv
RT: 4.49 min Scan# 531
Delta R.T. -0.00 min
Lab File: VL034195.D
Acq: 19 Sep 2019 10:34

Tgt Ion:101 Resp: 958847
Ion Ratio Lower Upper
101 100
151 65.3 51.8 77.8





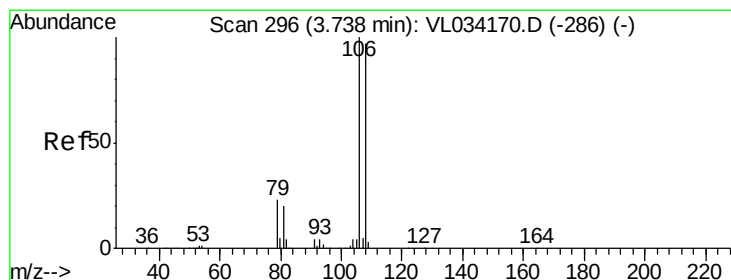
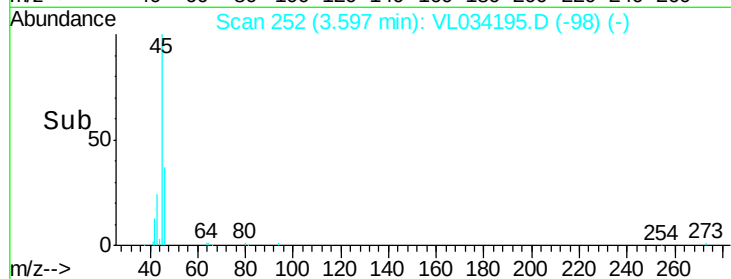
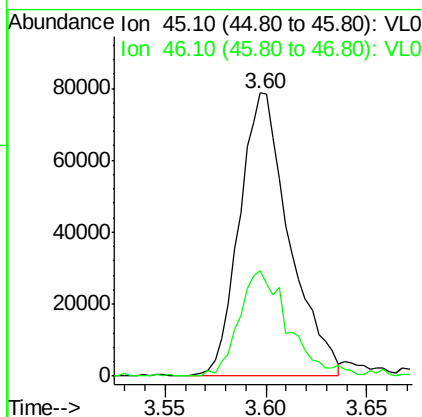
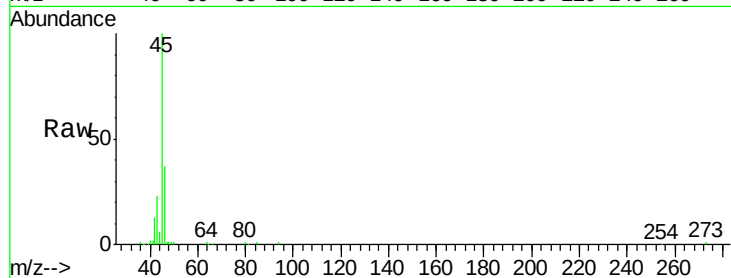
#13
Ethanol
Concen: 8.380 ppbv
RT: 3.60 min Scan# 252
Delta R.T. -0.01 min
Lab File: VL034195.D
Acq: 19 Sep 2019 10:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 45 Resp: 136056
Ion Ratio Lower Upper
45 100
46 37.0 15.5 61.9

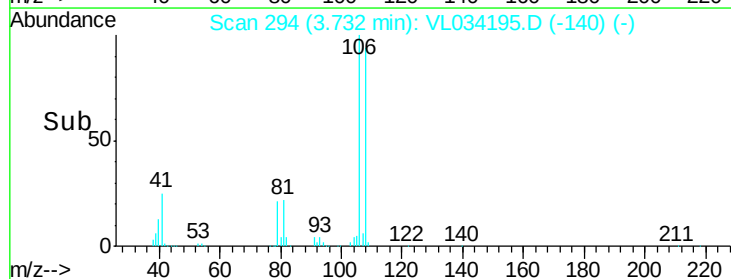
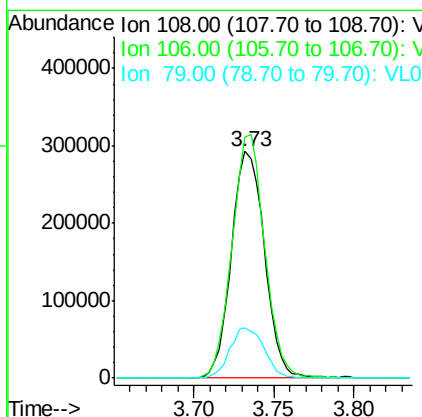
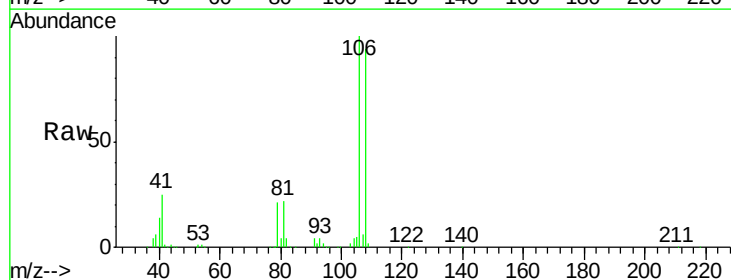
Manual Integrations
APPROVED

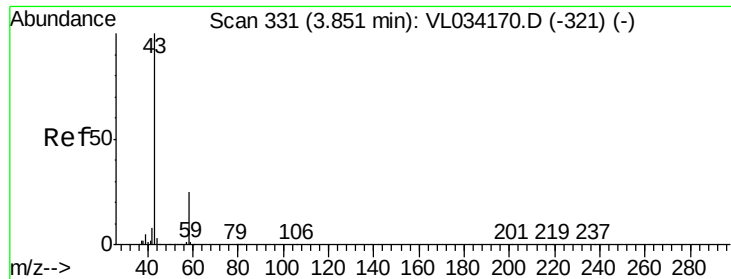
MMDadoda
9/20/2019 12:37:20 AM



#14
Bromoethene
Concen: 9.863 ppbv
RT: 3.73 min Scan# 294
Delta R.T. -0.01 min
Lab File: VL034195.D
Acq: 19 Sep 2019 10:34

Tgt Ion: 108 Resp: 411255
Ion Ratio Lower Upper
108 100
106 106.3 86.2 129.4
79 23.0 18.6 27.8





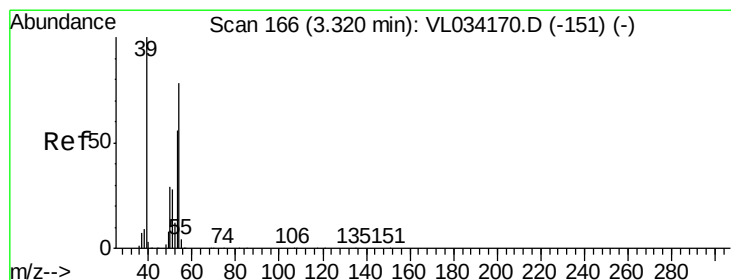
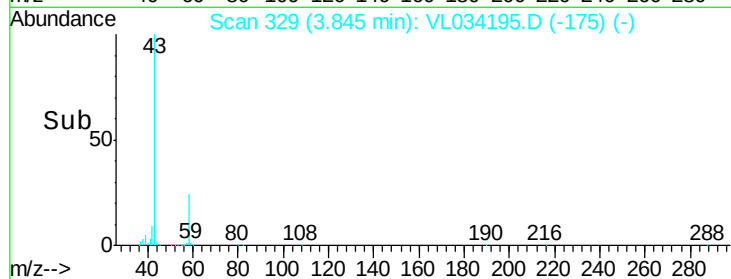
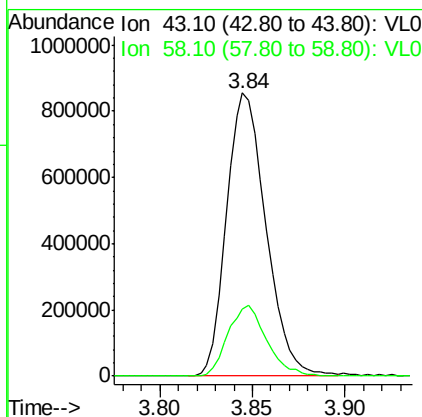
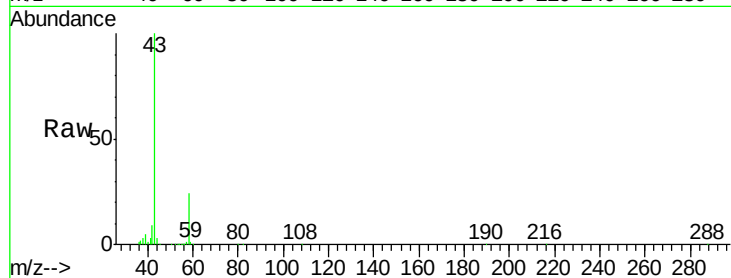
#15
Acetone
Concen: 8.115 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.01 min
Lab File: VL034195.D
Acq: 19 Sep 2019 10:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1260580
Ion Ratio Lower Upper
43 100
58 24.7 20.5 30.7

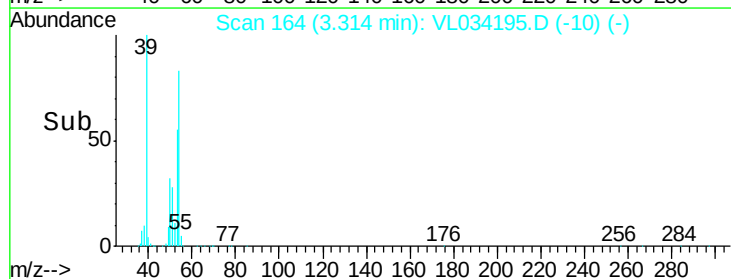
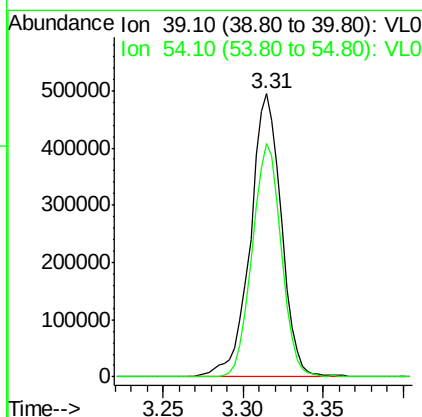
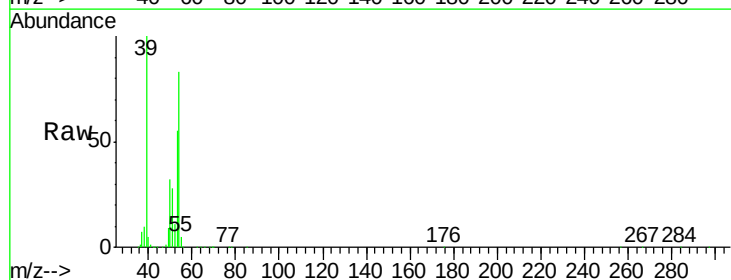
Manual Integrations
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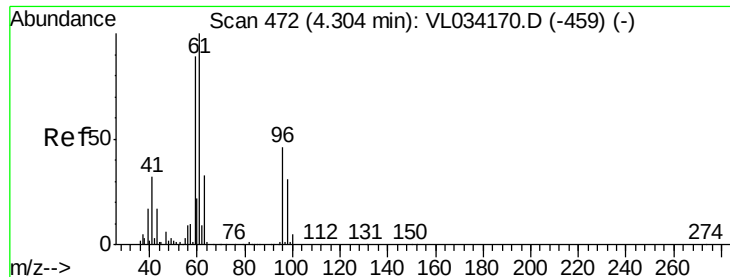
MMDadoda
9/20/2019 12:37:20 AM



#16
1,3-Butadiene
Concen: 9.697 ppbv
RT: 3.31 min Scan# 164
Delta R.T. -0.01 min
Lab File: VL034195.D
Acq: 19 Sep 2019 10:34

Tgt Ion: 39 Resp: 657378
Ion Ratio Lower Upper
39 100
54 77.7 63.4 95.0





#17

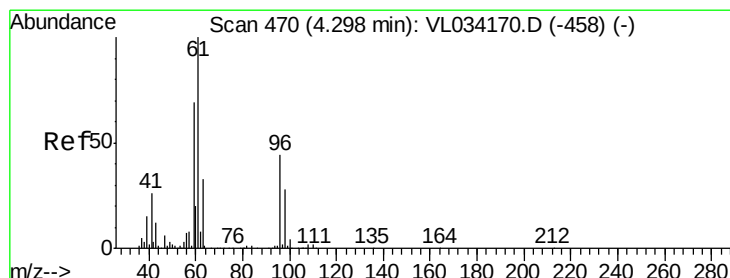
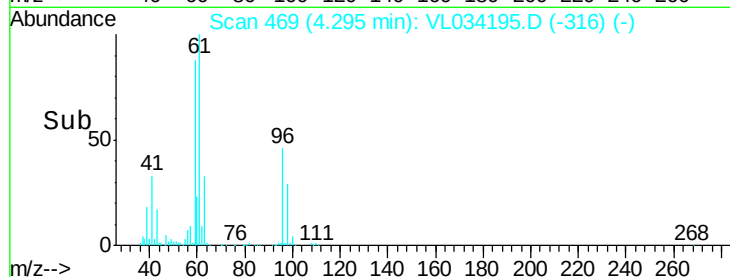
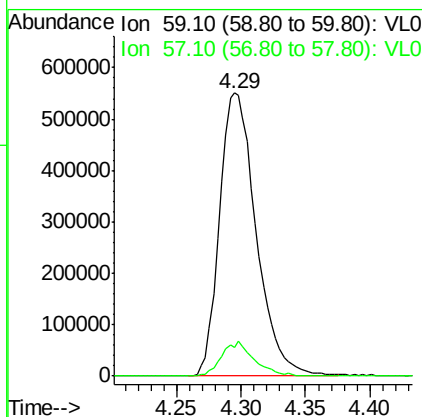
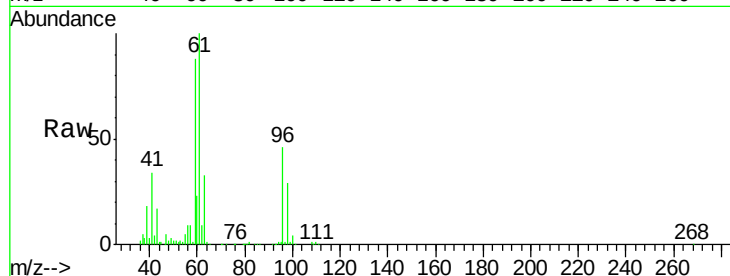
tert-Butyl alcohol
 Concen: 10.986 ppbv
 RT: 4.29 min Scan# 469
 Delta R.T. -0.01 min
 Lab File: VL034195.D
 Acq: 19 Sep 2019 10:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 59 Resp: 1081319
 Ion Ratio Lower Upper
 59 100
 57 11.1 8.7 13.1

Manual Integrations
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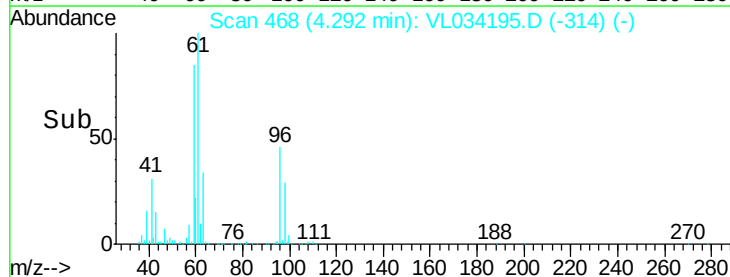
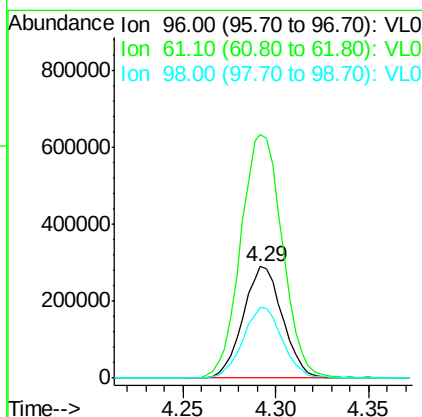
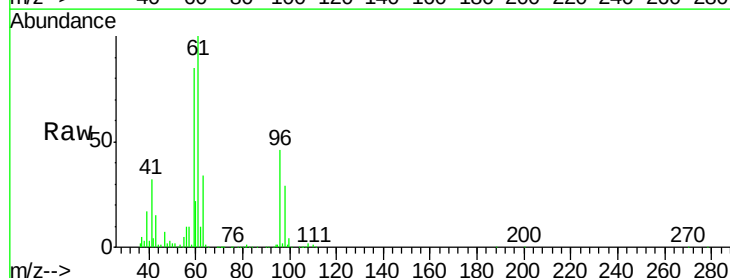
MMDadoda
 9/20/2019 12:37:20 AM

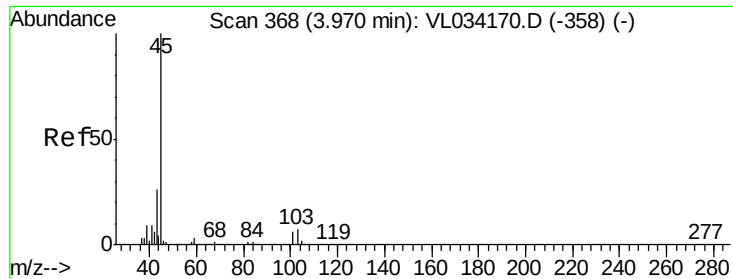


#18

1,1-Dichloroethene
 Concen: 9.674 ppbv
 RT: 4.29 min Scan# 468
 Delta R.T. -0.01 min
 Lab File: VL034195.D
 Acq: 19 Sep 2019 10:34

Tgt Ion: 96 Resp: 430312
 Ion Ratio Lower Upper
 96 100
 61 218.6 183.3 274.9
 98 64.0 51.4 77.2





#19

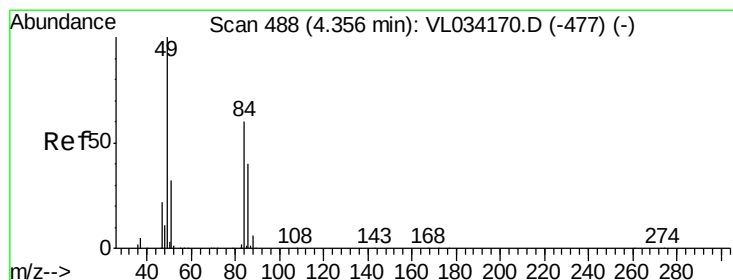
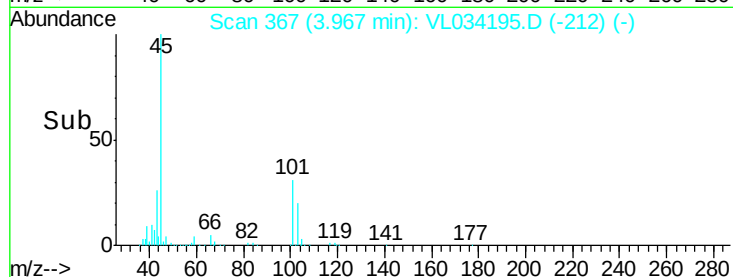
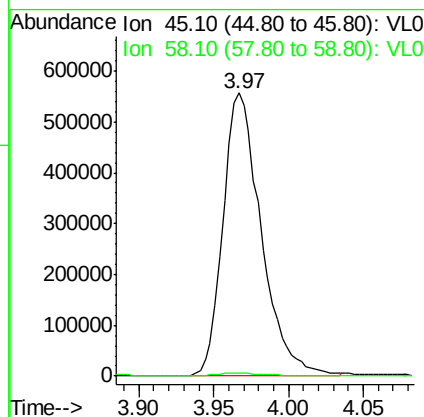
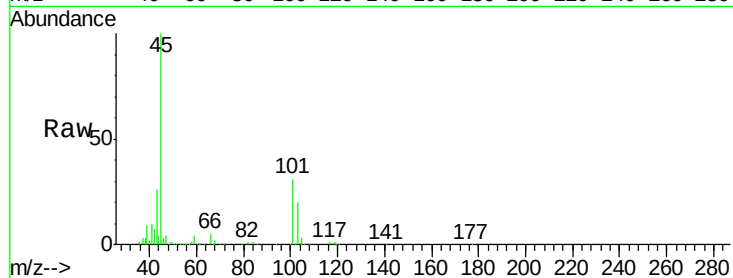
Isopropyl Alcohol
 Concen: 10.340 ppbv
 RT: 3.97 min Scan# 367
 Delta R.T. -0.00 min
 Lab File: VL034195.D
 Acq: 19 Sep 2019 10:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	45	Resp	987763
Ion Ratio	100	Lower	Upper
45	100		
58	1.6	1.4	2.0

Manual Integrations
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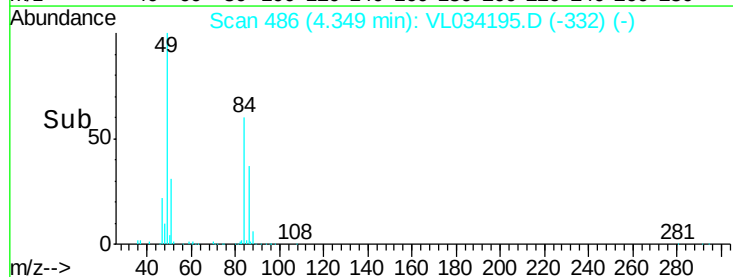
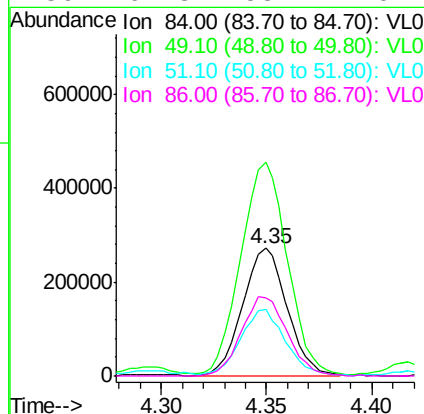
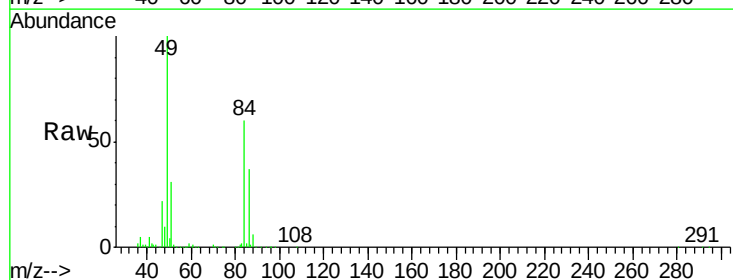
MMDadoda
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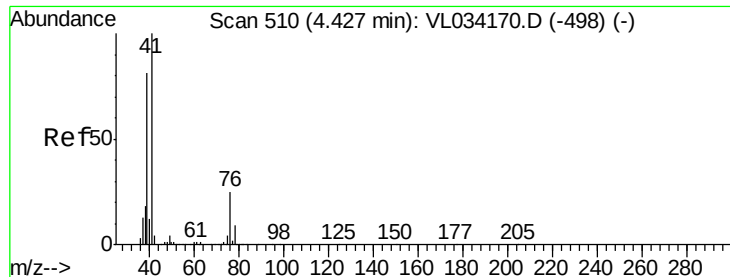


#20

Methylene Chloride
 Concen: 8.826 ppbv
 RT: 4.35 min Scan# 486
 Delta R.T. -0.01 min
 Lab File: VL034195.D
 Acq: 19 Sep 2019 10:34

Tgt Ion	84	Resp	395330
Ion Ratio	100	Lower	Upper
84	100		
49	165.8	133.8	200.8
51	51.2	43.6	65.4
86	61.3	53.1	79.7





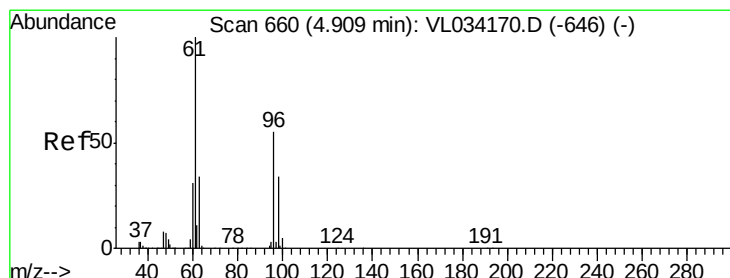
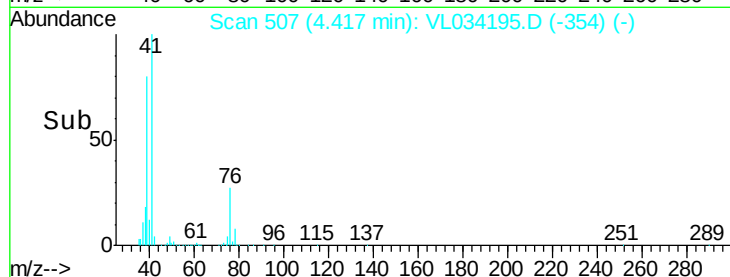
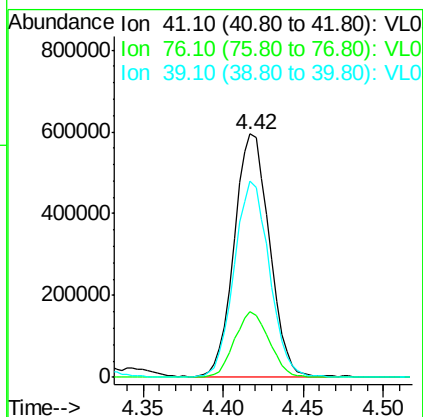
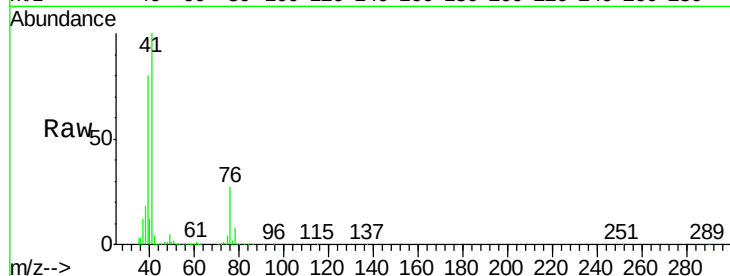
#21
Allvl Chloride
Concen: 10.083 ppbv
RT: 4.42 min Scan# 507
Delta R.T. -0.01 min
Lab File: VL034195.D
Acq: 19 Sep 2019 10:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:	41	Resp:	884718
Ion	Ratio	Lower	Upper
41	100		
76	26.7	21.8	32.6
39	81.6	64.8	97.2

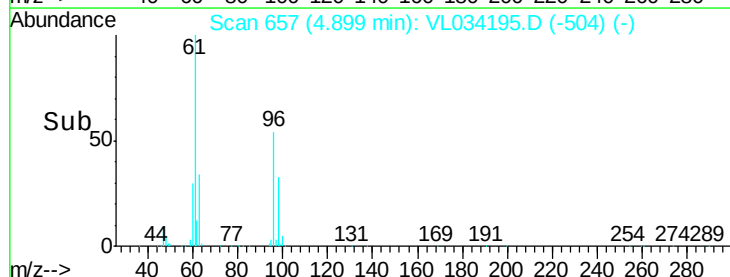
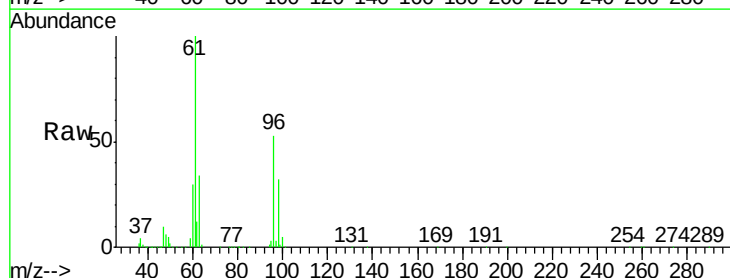
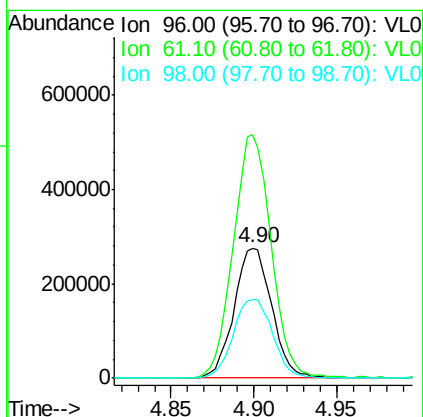
Manual Integrations
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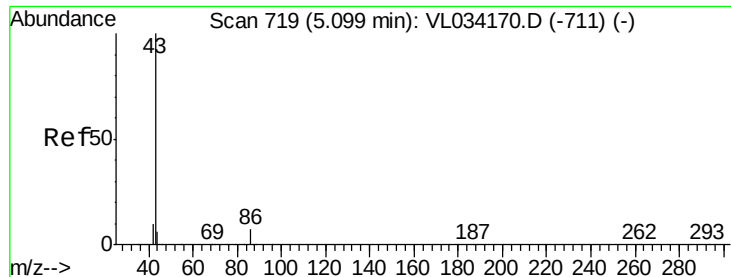
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#22
trans-1,2-Dichloroethene
Concen: 9.788 ppbv
RT: 4.90 min Scan# 657
Delta R.T. -0.01 min
Lab File: VL034195.D
Acq: 19 Sep 2019 10:34

Tgt Ion:	96	Resp:	435604
Ion	Ratio	Lower	Upper
96	100		
61	187.0	145.5	218.3
98	60.5	49.9	74.9





#23

Vinyl Acetate

Concen: 9.299 ppbv

RT: 5.09 min Scan# 716

Delta R.T. -0.01 min

Lab File: VL034195.D

Acq: 19 Sep 2019 10:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2128696

Ion Ratio Lower Upper

43 100

86 6.0 5.1 7.7

42 10.1 8.6 12.8

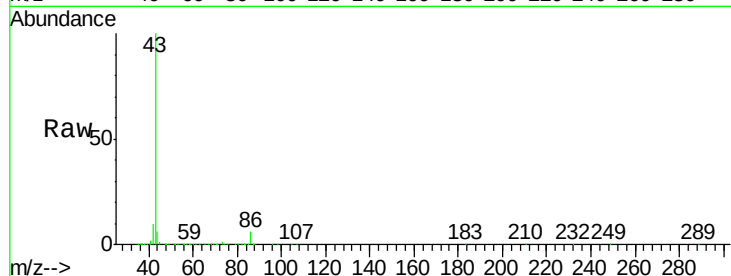
44 5.4 4.7 7.1

Manual Integrations

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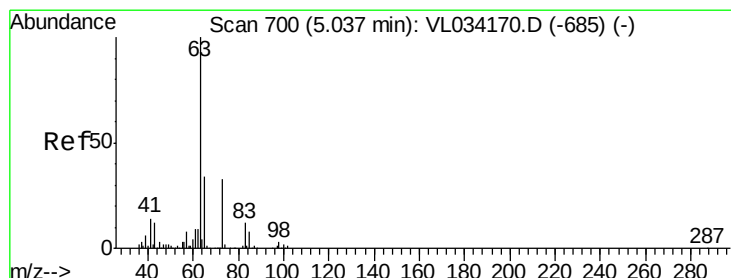
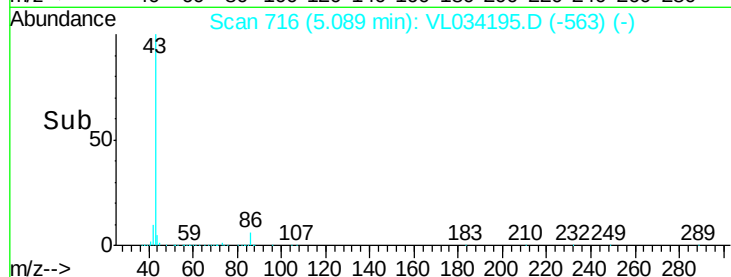
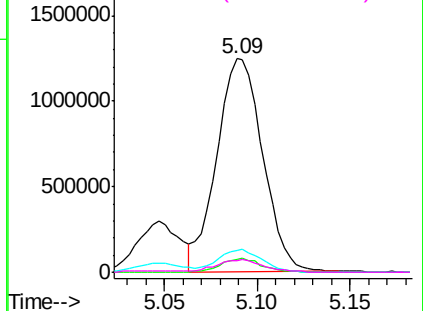


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.022 ppbv

RT: 5.03 min Scan# 697

Delta R.T. -0.01 min

Lab File: VL034195.D

Acq: 19 Sep 2019 10:34

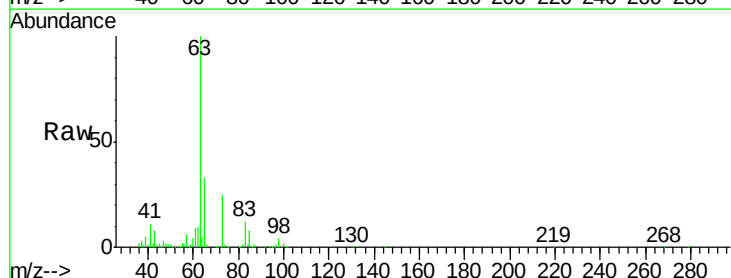
Tgt Ion: 63 Resp: 1390640

Ion Ratio Lower Upper

63 100

98 3.9 1.8 5.3

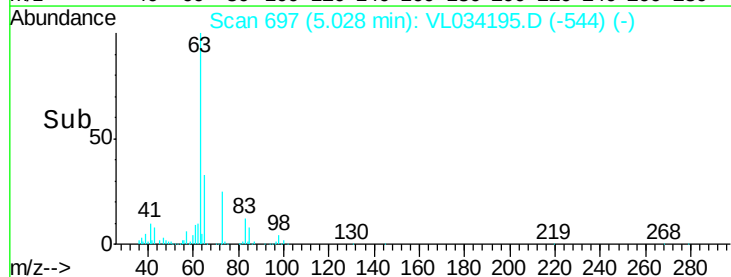
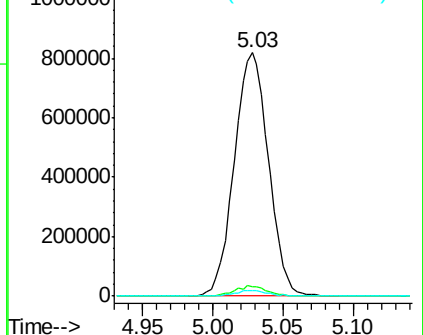
100 2.4 1.0 3.0

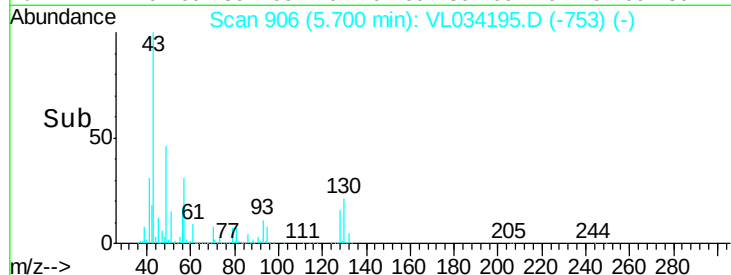
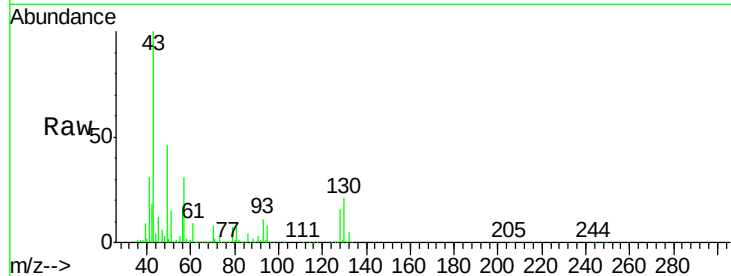
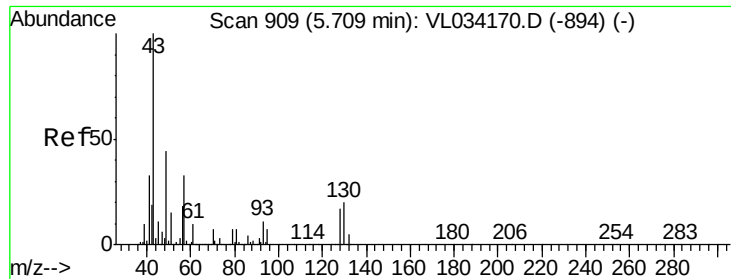


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





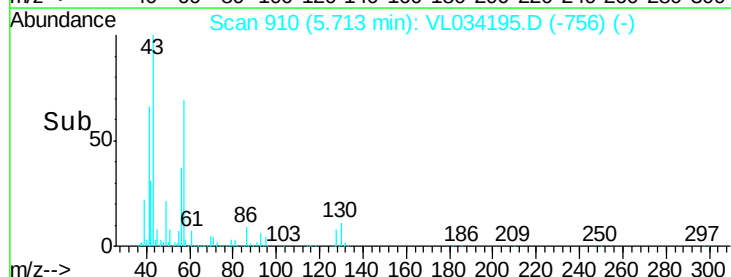
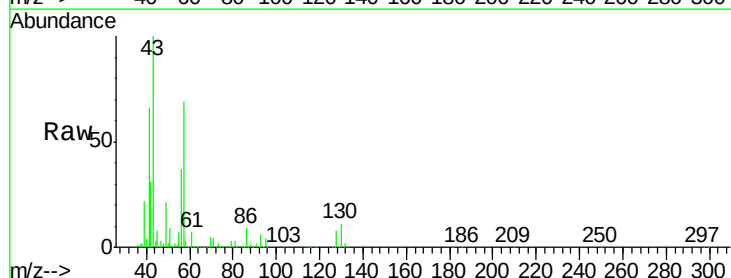
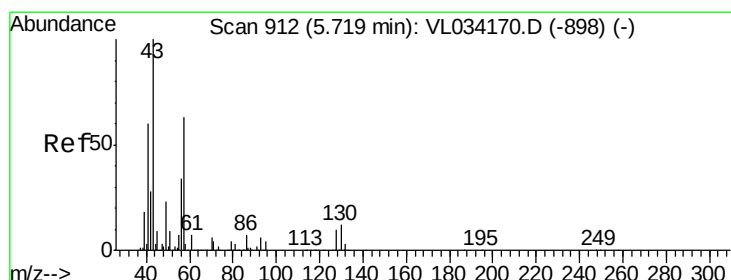
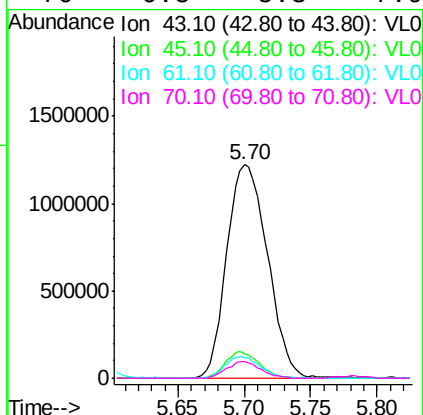
#25
Ethyl Acetate
Concen: 8.865 ppbv
RT: 5.70 min Scan# 906
Delta R.T. -0.01 min
Lab File: VL034195.D
Acq: 19 Sep 2019 10:34

Tot Ion	43	Resp	2604113
Ion	Ratio	Lower	Upper
43	100		
45	10.6	8.4	12.6
61	8.9	7.2	10.8
70	6.5	5.3	7.9

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

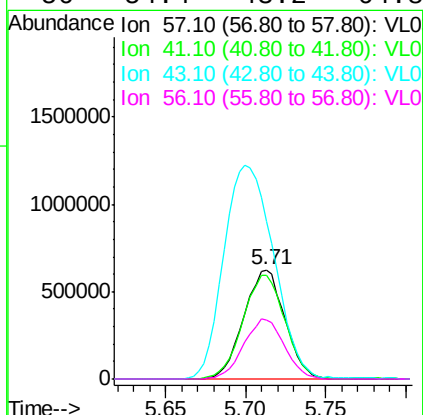
Manual Integrations
APPROVED

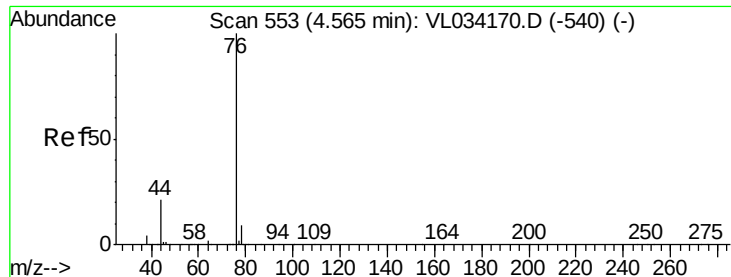
MMDadoda
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#26
Hexane
Concen: 8.958 ppbv
RT: 5.71 min Scan# 910
Delta R.T. -0.01 min
Lab File: VL034195.D
Acq: 19 Sep 2019 10:34

Tgt Ion	57	Resp	1094645
Ion	Ratio	Lower	Upper
57	100		
41	98.5	78.5	117.7
43	239.3	189.5	284.3
56	54.4	43.2	64.8





#27

Carbon Disulfide

Concen: 10.886 ppbv

RT: 4.56 min Scan# 551

Delta R.T. -0.01 min

Lab File: VL034195.D

Acq: 19 Sep 2019 10:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1226796

Ion Ratio Lower Upper

76 100

44 21.7 17.6 26.4

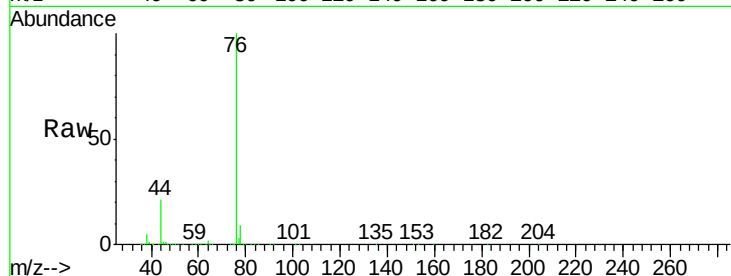
78 9.3 7.6 11.4

Manual Integrations

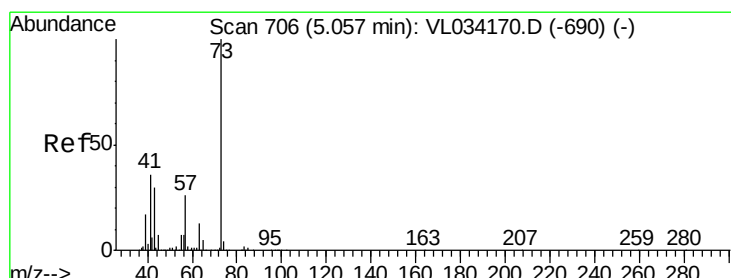
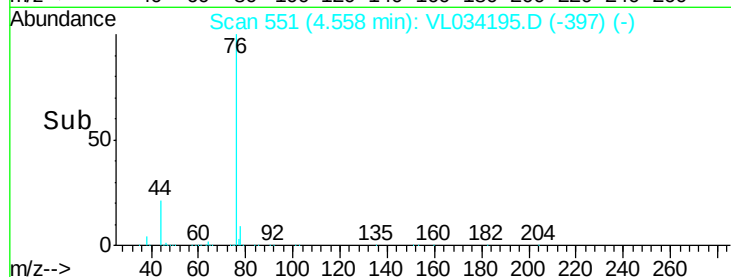
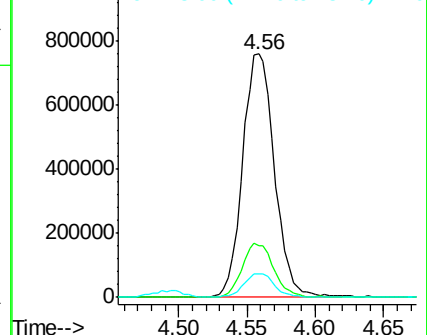
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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.248 ppbv

RT: 5.05 min Scan# 704

Delta R.T. -0.01 min

Lab File: VL034195.D

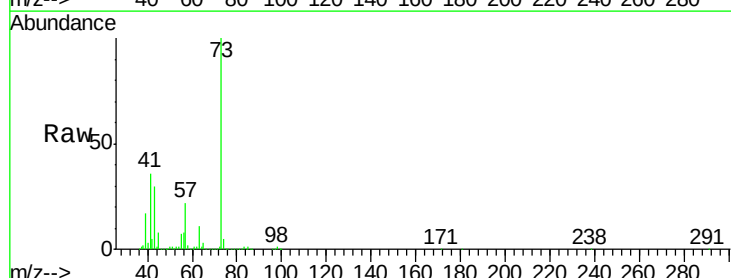
Acq: 19 Sep 2019 10:34

Tgt Ion: 73 Resp: 1678420

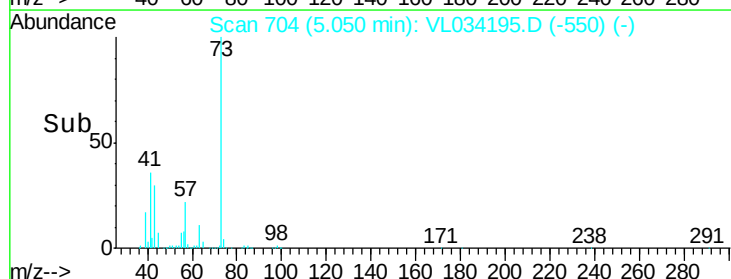
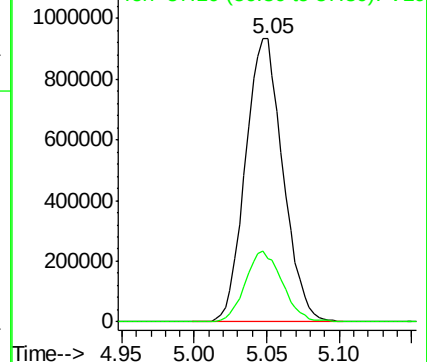
Ion Ratio Lower Upper

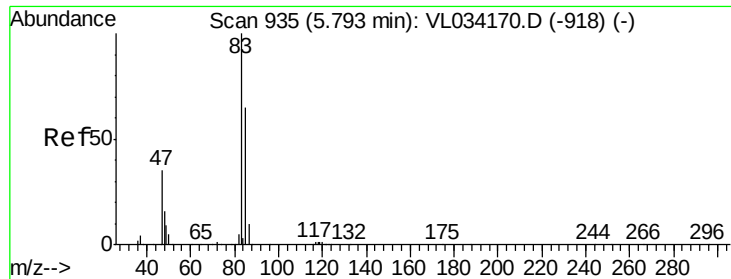
73 100

57 24.9 20.2 30.2



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





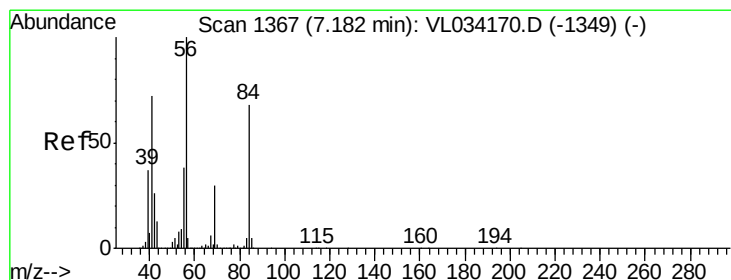
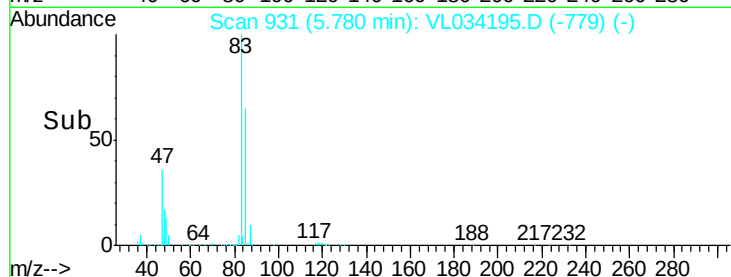
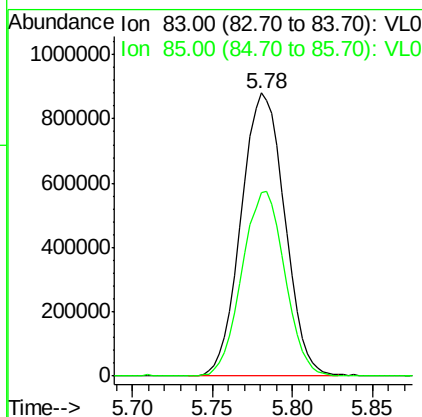
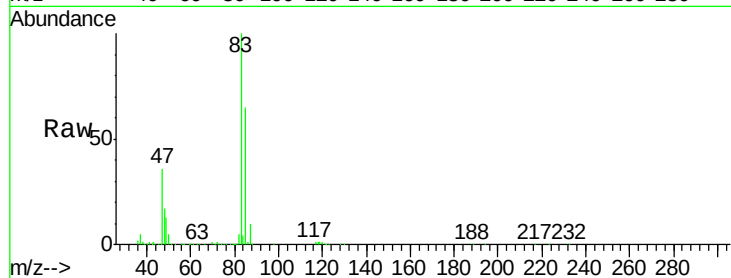
#29
Chloroform
Concen: 9.363 ppbv
RT: 5.78 min Scan# 931
Delta R.T. -0.01 min
Lab File: VL034195.D
Acq: 19 Sep 2019 10:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1634945
Ion Ratio Lower Upper
83 100
85 64.7 52.3 78.5

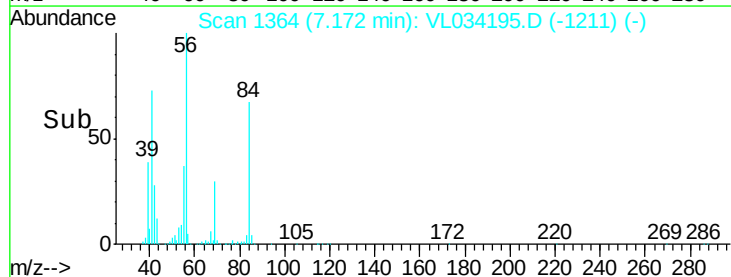
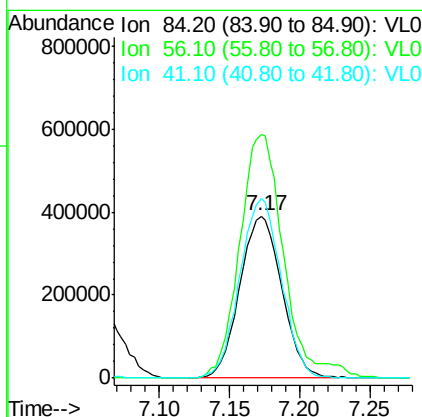
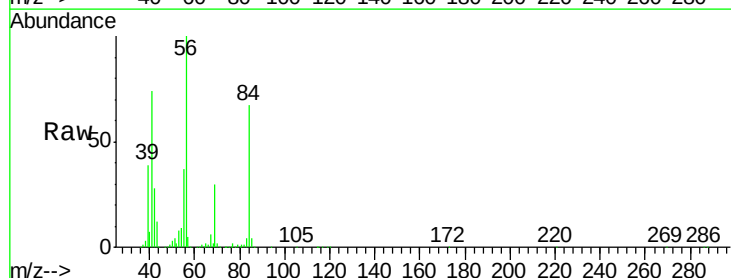
Manual Integrations
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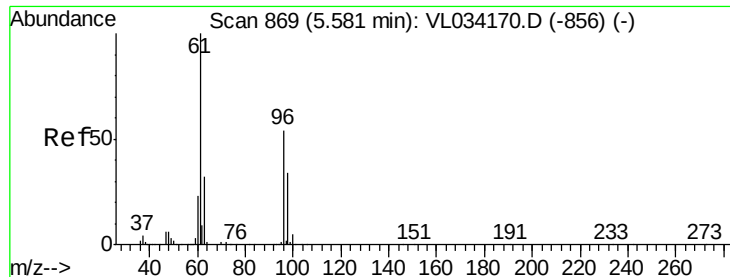
MMDadoda
9/20/2019 12:37:20 AM



#30
Cyclohexane
Concen: 9.248 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.01 min
Lab File: VL034195.D
Acq: 19 Sep 2019 10:34

Tgt Ion: 84 Resp: 815839
Ion Ratio Lower Upper
84 100
56 157.5 126.2 189.2
41 109.7 85.8 128.8





#31

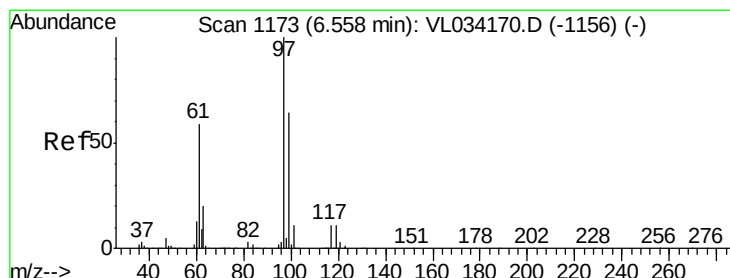
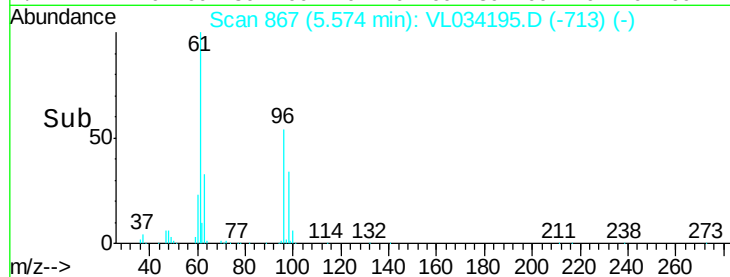
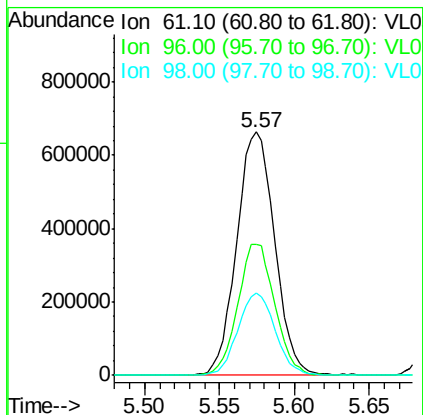
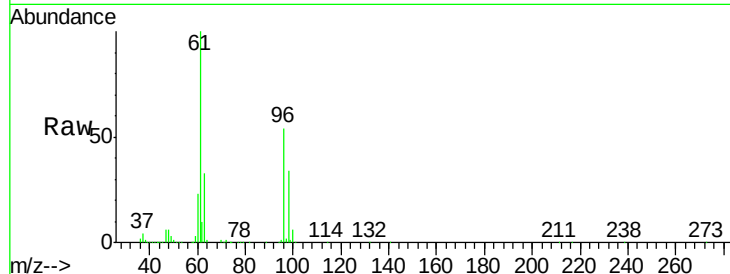
cis-1,2-Dichloroethene
Concen: 9.414 ppbv
RT: 5.57 min Scan# 867
Delta R.T. -0.01 min
Lab File: VL034195.D
Acq: 19 Sep 2019 10:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	53.6	43.0	64.4
98	33.8	27.2	40.8

Manual Integrations
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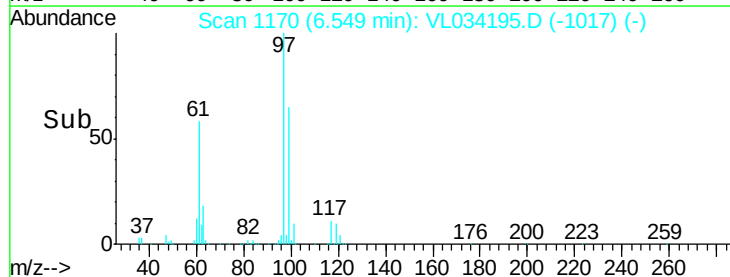
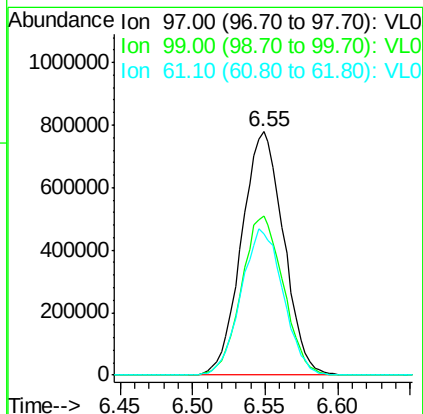
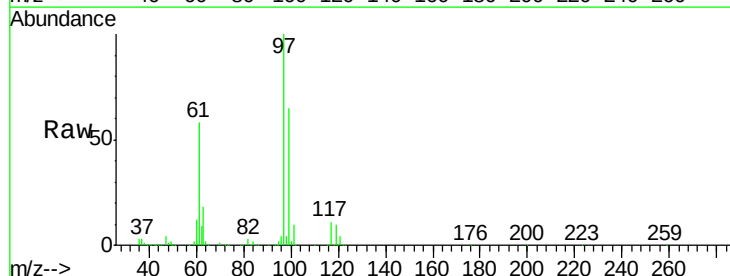
MMDadoda
9/20/2019 12:37:20 AM

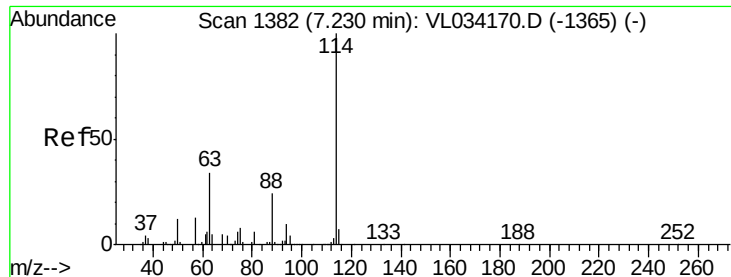


#32

1,1,1-Trichloroethane
Concen: 9.314 ppbv
RT: 6.55 min Scan# 1170
Delta R.T. -0.01 min
Lab File: VL034195.D
Acq: 19 Sep 2019 10:34

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.3	51.4	77.2
61	60.3	48.4	72.6





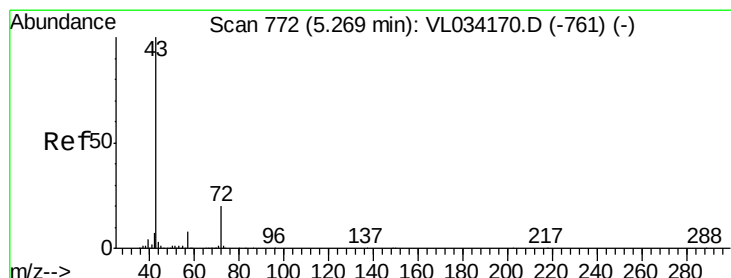
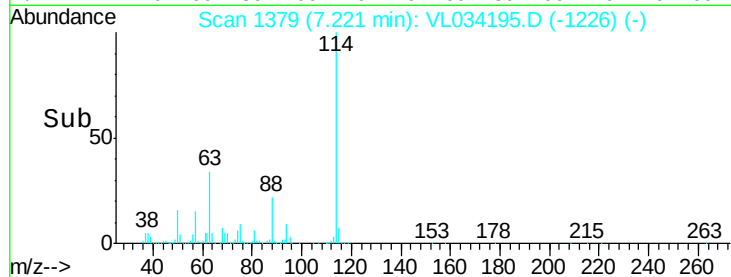
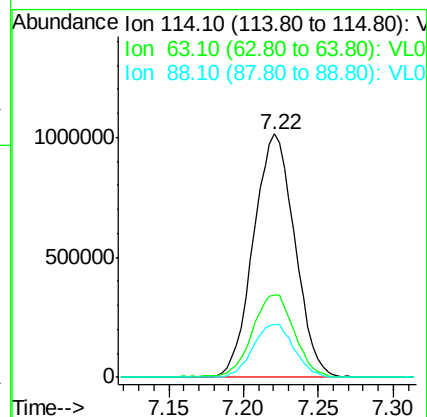
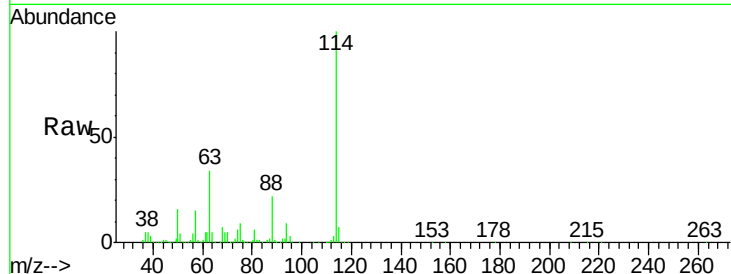
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.22 min Scan# 1379
 Delta R.T. -0.01 min
 Lab File: VL034195.D
 Acq: 19 Sep 2019 10:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	34.9	27.8	41.6
88	21.7	17.1	25.7

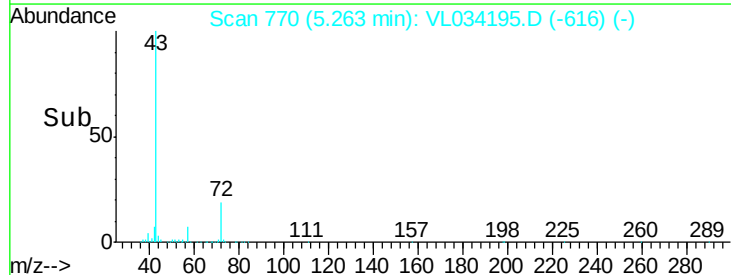
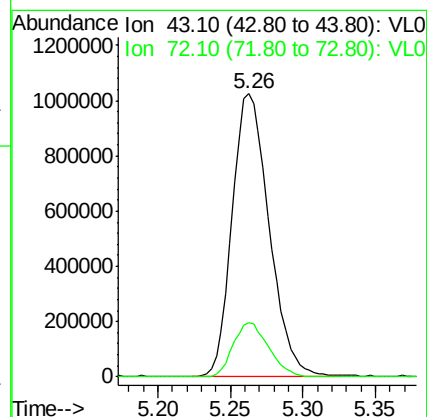
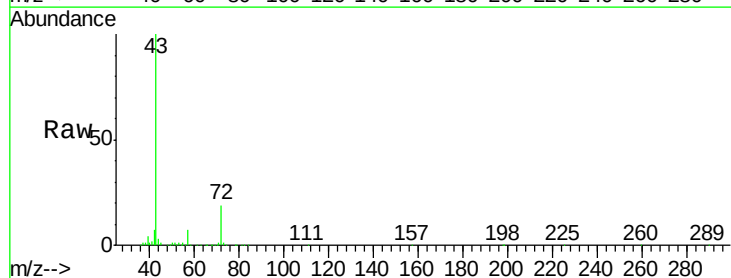
Manual Integrations
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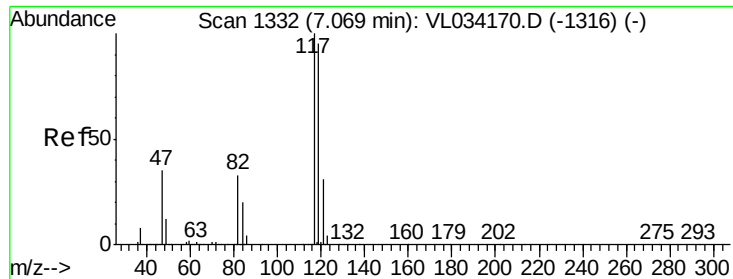
MMDadoda
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#34
 2-Butanone
 Concen: 9.113 ppbv
 RT: 5.26 min Scan# 770
 Delta R.T. -0.01 min
 Lab File: VL034195.D
 Acq: 19 Sep 2019 10:34

Tgt Ion	Ratio	Lower	Upper
43	100		
72	18.6	15.0	22.6





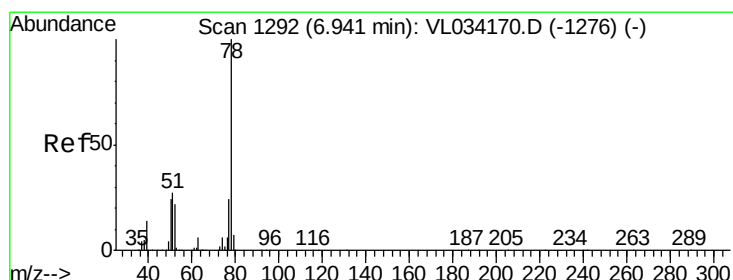
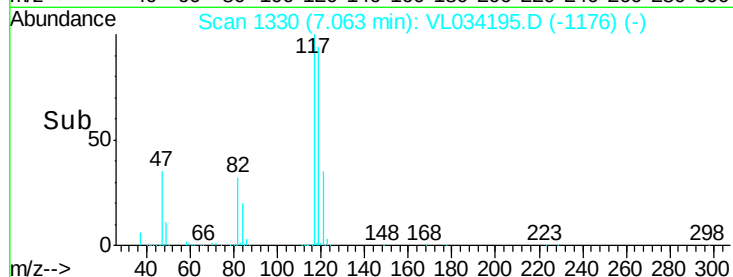
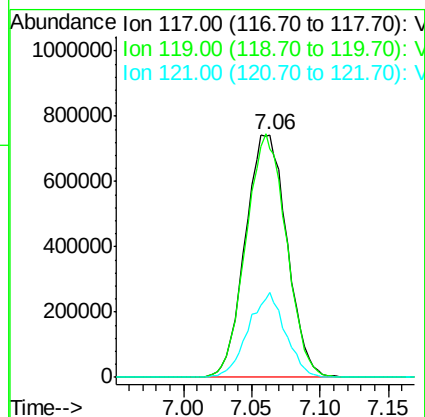
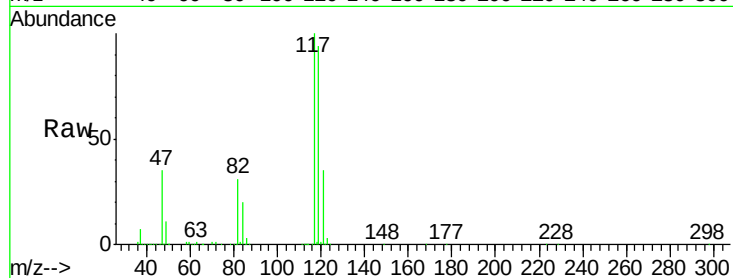
#35
Carbon Tetrachloride
Concen: 9.714 ppbv
RT: 7.06 min Scan# 1330
Delta R.T. -0.01 min
Lab File: VL034195.D
Acq: 19 Sep 2019 10:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
119	93.9	75.8	113.6
121	35.1	25.0	37.6

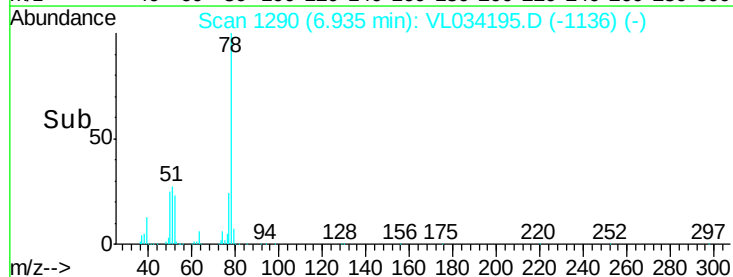
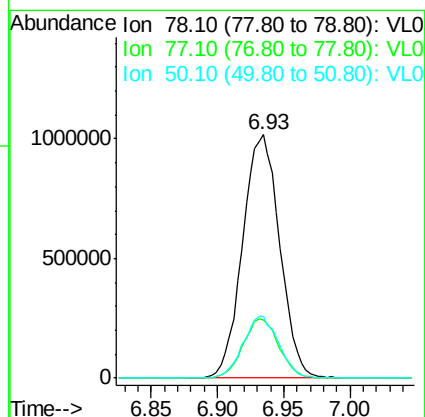
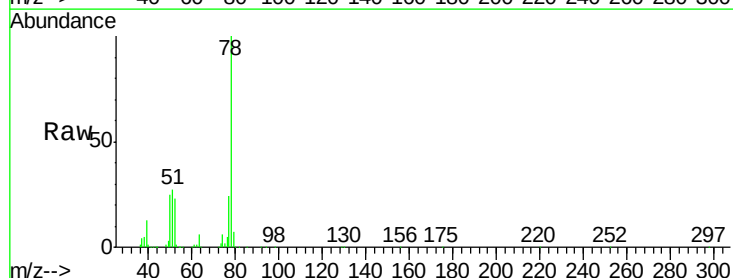
Manual Integrations
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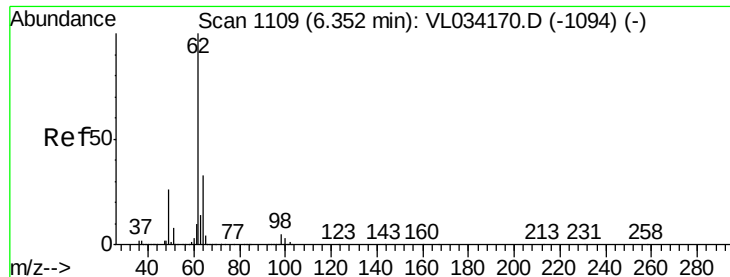
MMDadoda
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#36
Benzene
Concen: 9.172 ppbv
RT: 6.93 min Scan# 1290
Delta R.T. -0.01 min
Lab File: VL034195.D
Acq: 19 Sep 2019 10:34

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.0	28.4
50	25.2	18.9	28.3





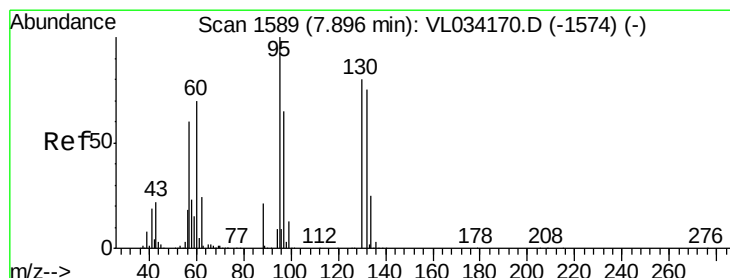
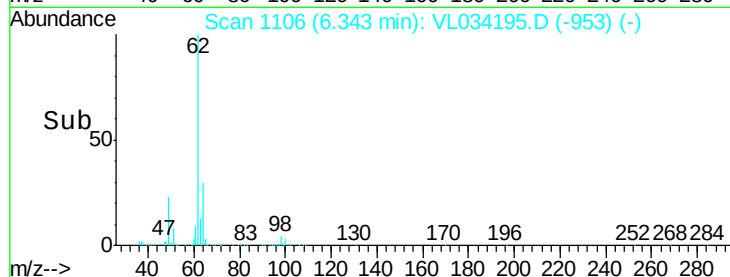
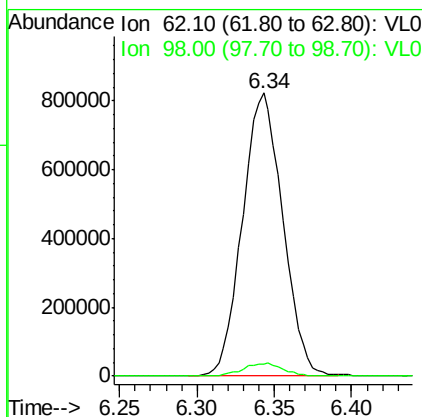
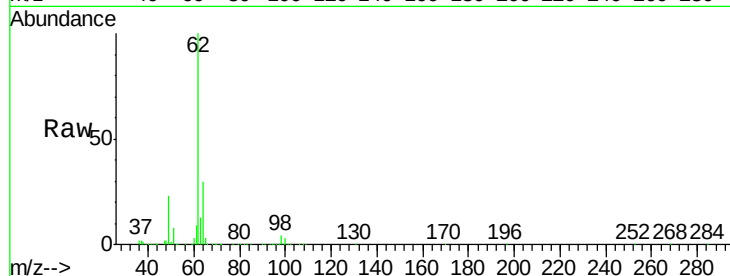
#37
 1,2-Dichloroethane
 Concen: 9.756 ppbv
 RT: 6.34 min Scan# 1106
 Delta R.T. -0.01 min
 Lab File: VL034195.D
 Acq: 19 Sep 2019 10:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
62	100		
98	4.6	3.8	5.8

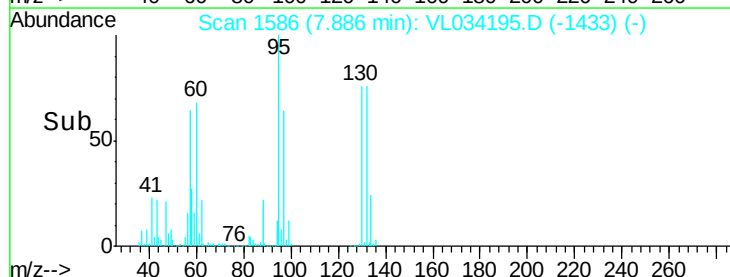
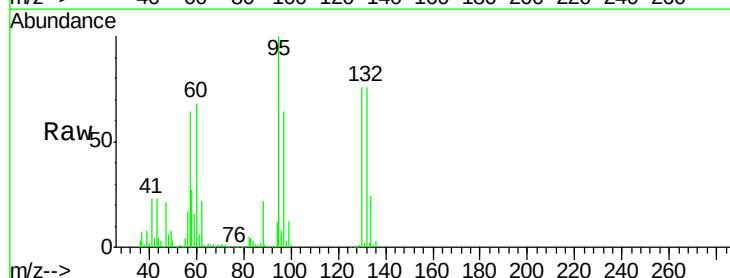
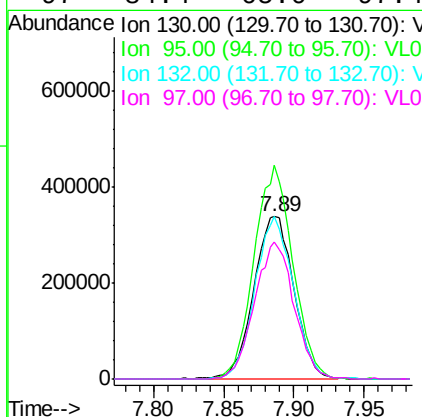
Manual Integrations
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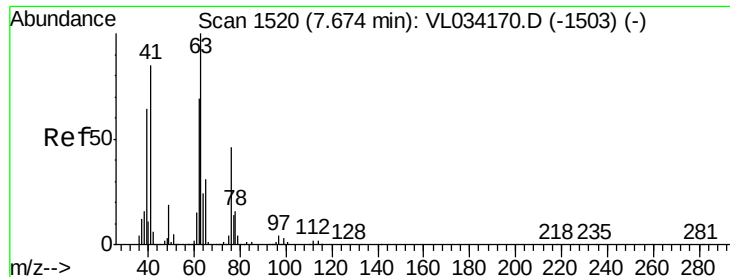
MMDadoda
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#38
 Trichloroethene
 Concen: 8.685 ppbv
 RT: 7.89 min Scan# 1586
 Delta R.T. -0.01 min
 Lab File: VL034195.D
 Acq: 19 Sep 2019 10:34

Tgt Ion	Ratio	Lower	Upper
130	100		
95	131.9	99.8	149.6
132	100.2	75.2	112.8
97	84.4	65.0	97.4





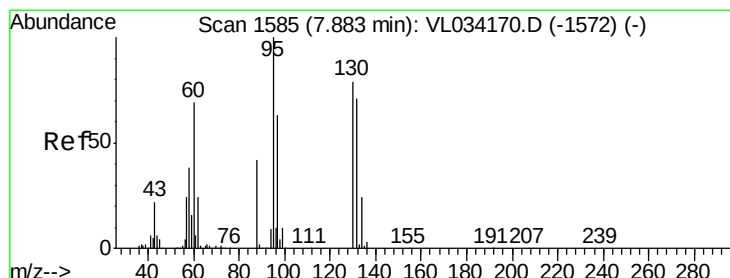
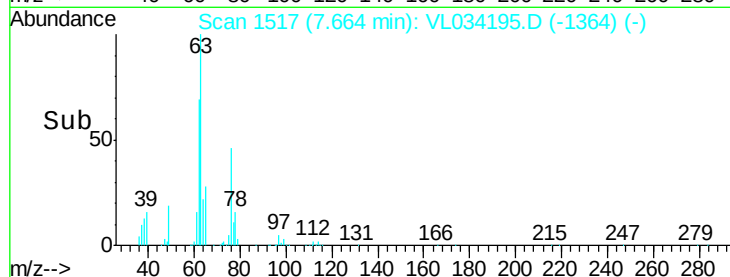
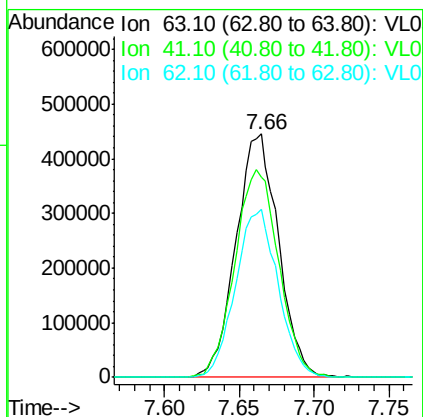
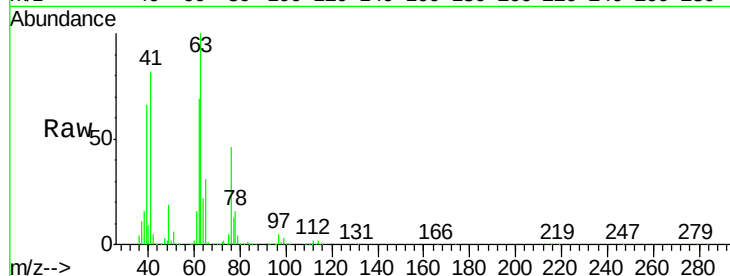
#39
 1,2-Dichloropropane
 Concen: 9.020 ppbv
 RT: 7.66 min Scan# 1517
 Delta R.T. -0.01 min
 Lab File: VL034195.D
 Acq: 19 Sep 2019 10:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	82.3	68.4	102.6
62	68.8	55.4	83.2

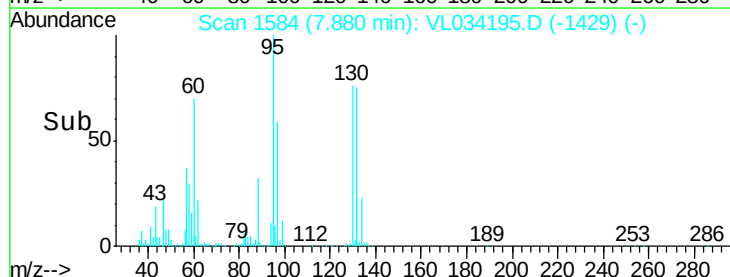
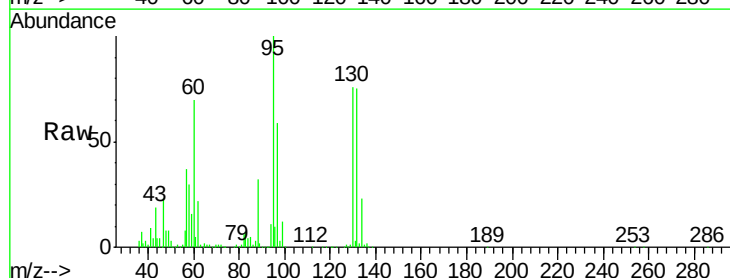
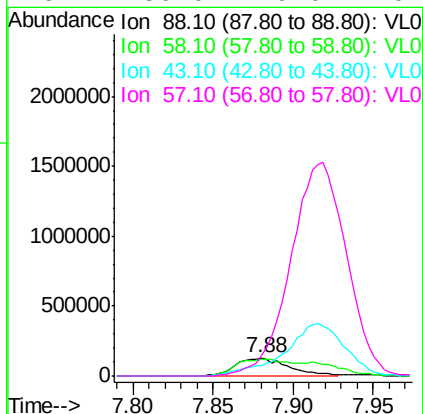
Manual Integrations
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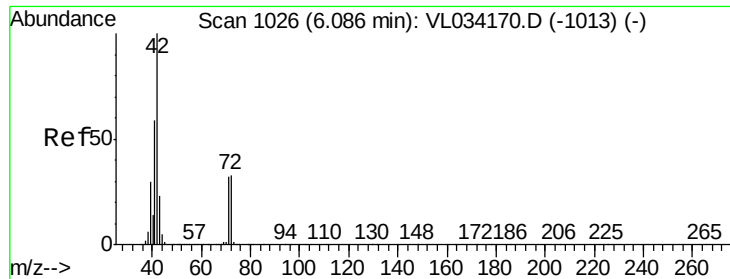
MMDadoda
 9/20/2019 12:37:20 AM



#40
 1,4-Dioxane
 Concen: 9.304 ppbv
 RT: 7.88 min Scan# 1584
 Delta R.T. -0.00 min
 Lab File: VL034195.D
 Acq: 19 Sep 2019 10:34

Tgt Ion	Ratio	Lower	Upper
88	100		
58	156.6	131.8	197.6
43	338.6	0.0	0.0#
57	1280.9	0.0	0.0#





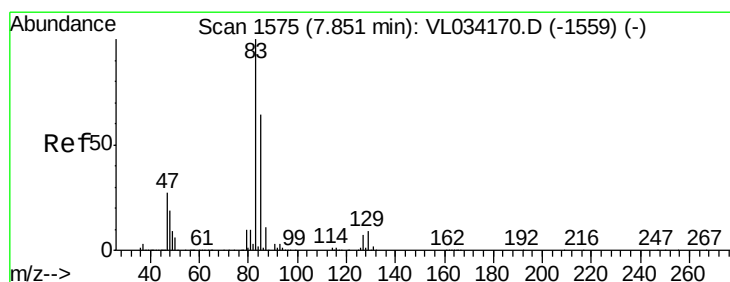
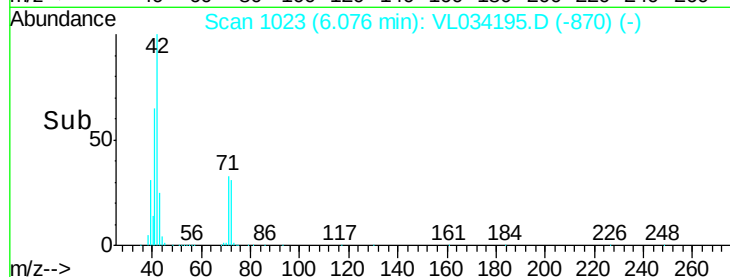
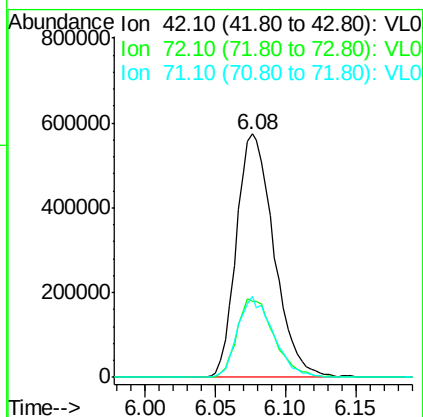
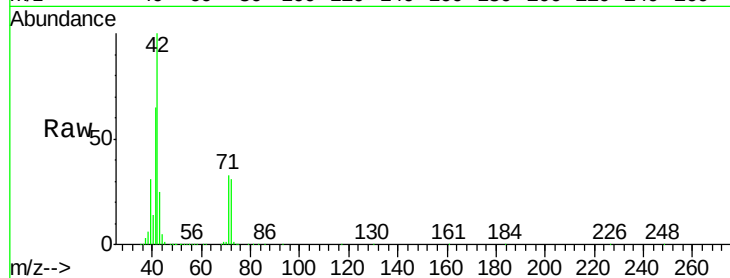
#41
Tetrahydrofuran
Concen: 9.538 ppbv
RT: 6.08 min Scan# 1023
Delta R.T. -0.01 min
Lab File: VL034195.D
Acq: 19 Sep 2019 10:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	32.2	26.6	40.0
71	31.7	25.1	37.7

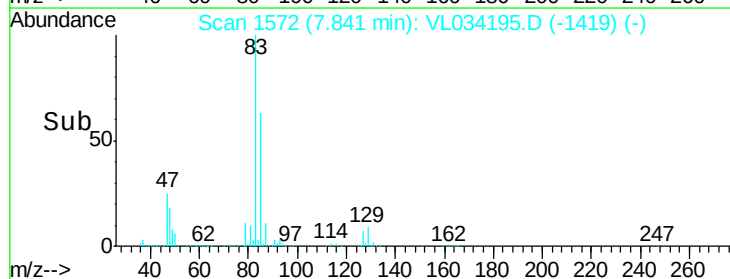
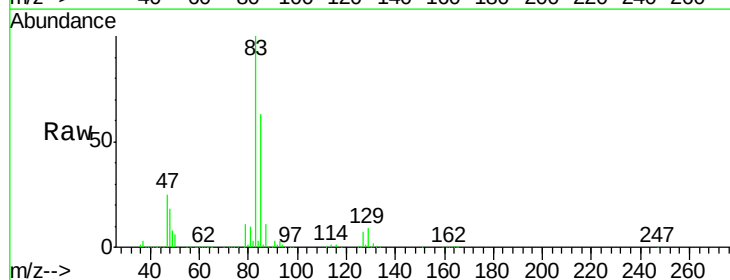
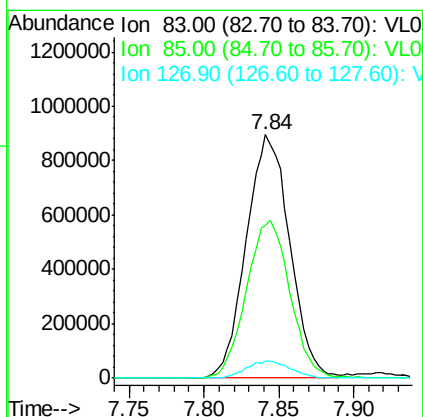
Manual Integrations
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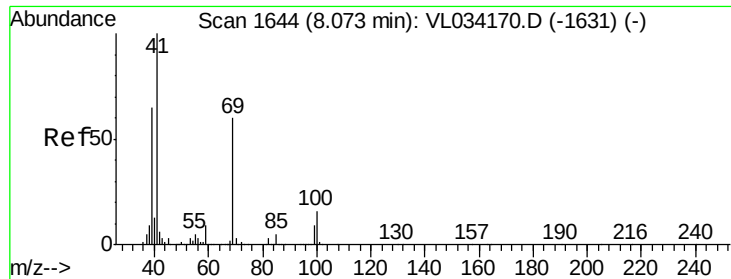
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#42
Bromodichloromethane
Concen: 9.845 ppbv
RT: 7.84 min Scan# 1572
Delta R.T. -0.01 min
Lab File: VL034195.D
Acq: 19 Sep 2019 10:34

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.8	51.4	77.0
127	6.8	5.5	8.3





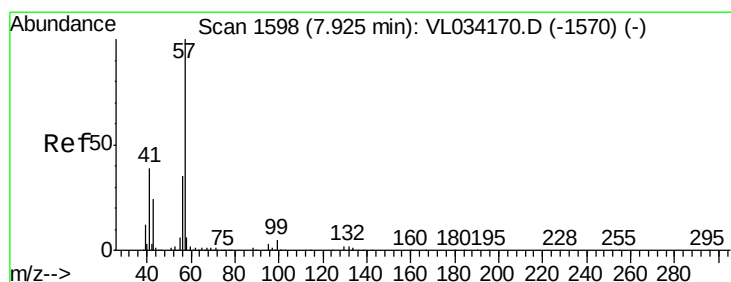
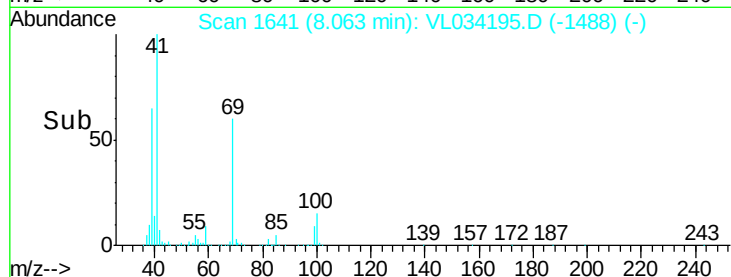
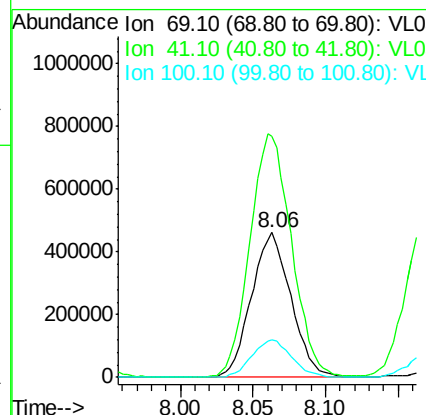
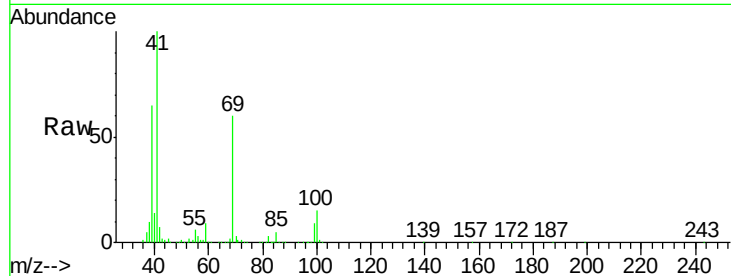
#43
Methyl Methacrylate
Concen: 9.864 ppbv
RT: 8.06 min Scan# 1641
Delta R.T. -0.01 min
Lab File: VL034195.D
Acq: 19 Sep 2019 10:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	176.7	140.4	210.6	
100	26.3	21.9	32.9	

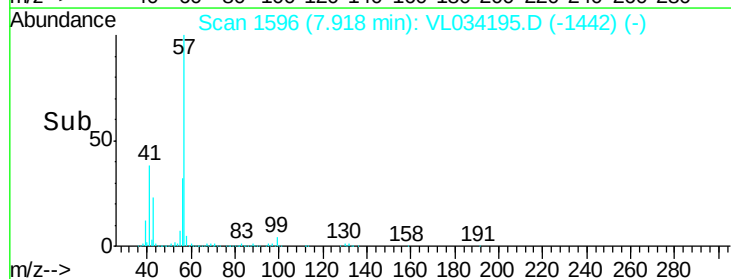
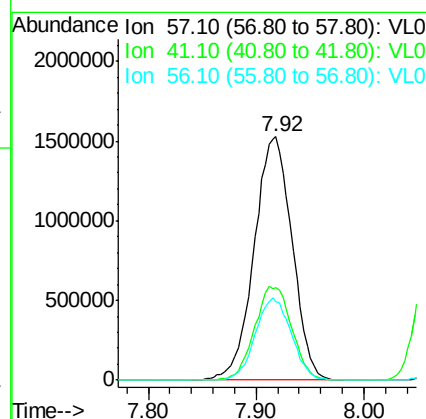
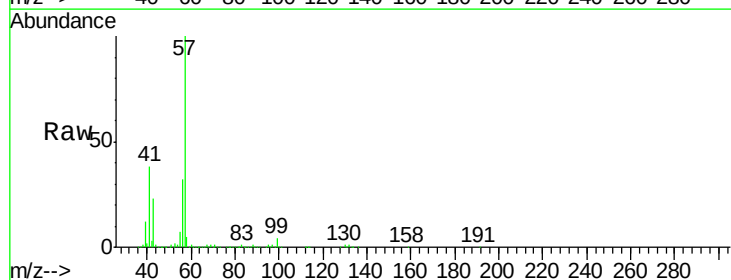
Manual Integrations
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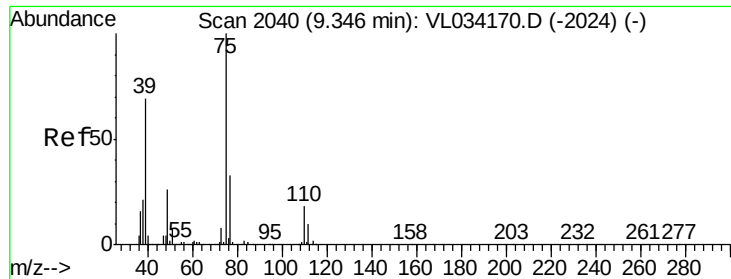
MMDadoda
9/20/2019 12:37:20 AM



#44
2,2,4-Trimethylpentane
Concen: 8.986 ppbv
RT: 7.92 min Scan# 1596
Delta R.T. -0.01 min
Lab File: VL034195.D
Acq: 19 Sep 2019 10:34

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	37.6	29.8	44.6	
56	31.9	25.9	38.9	





#45

t-1,3-Dichloropropene

Concen: 10.913 ppbv

RT: 9.34 min Scan# 2038

Delta R.T. -0.01 min

Lab File: VL034195.D

Acq: 19 Sep 2019 10:34

Tot Ion: 75 Resp: 1148237

Ion Ratio Lower Upper

75 100

77 30.9 26.2 39.2

Instrument :

MSVOA_L

ClientSampleId :

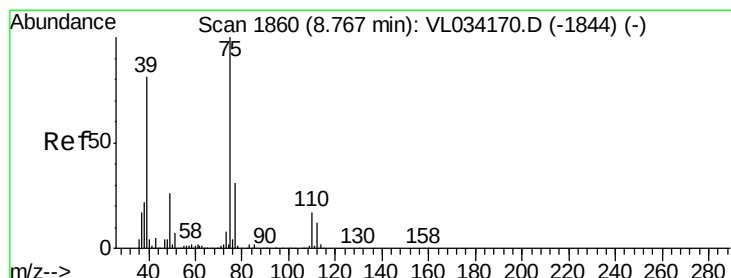
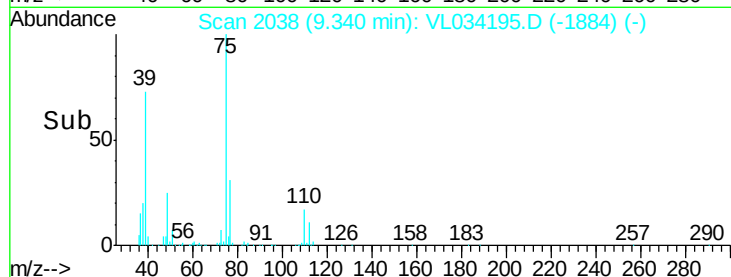
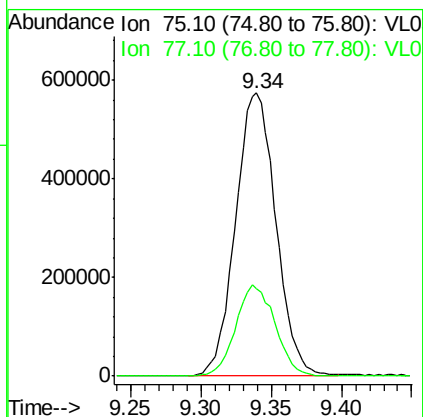
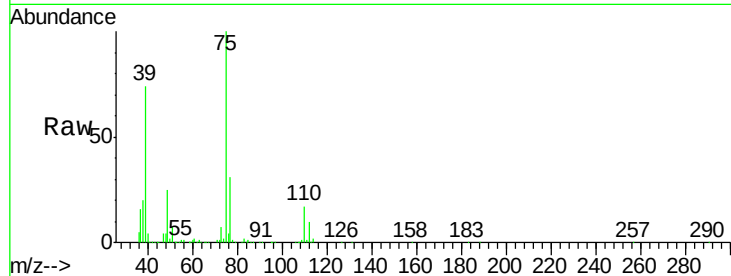
VSTDCCC010EC

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#46

cis-1,3-Dichloropropene

Concen: 10.238 ppbv

RT: 8.76 min Scan# 1857

Delta R.T. -0.01 min

Lab File: VL034195.D

Acq: 19 Sep 2019 10:34

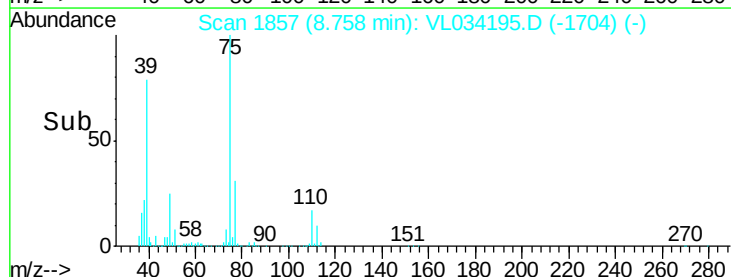
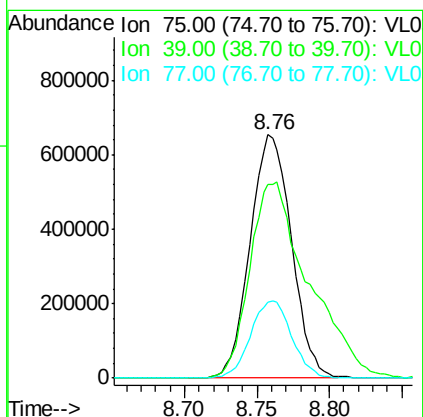
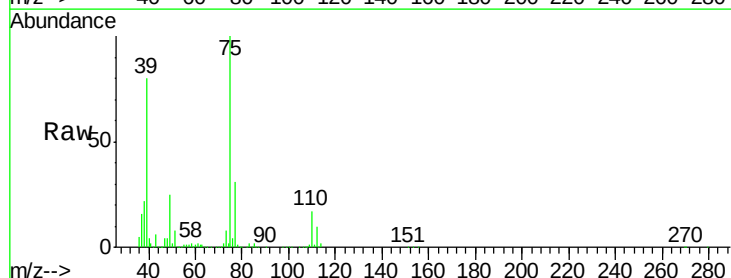
Tgt Ion: 75 Resp: 1295769

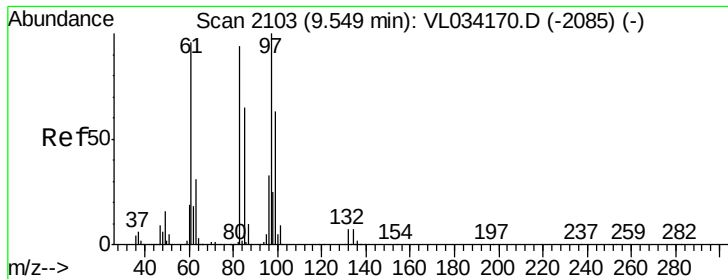
Ion Ratio Lower Upper

75 100

39 79.6 65.0 97.4

77 31.2 24.5 36.7





#47

1,1,2-Trichloroethane

Concen: 9.092 ppbv

RT: 9.54 min Scan# 2101

Delta R.T. -0.01 min

Lab File: VL034195.D

Acq: 19 Sep 2019 10:34

Instrument :

MSVOA_L

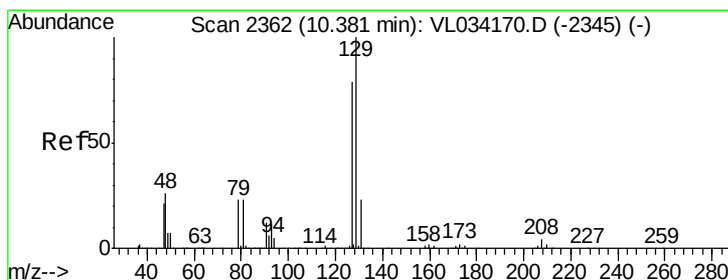
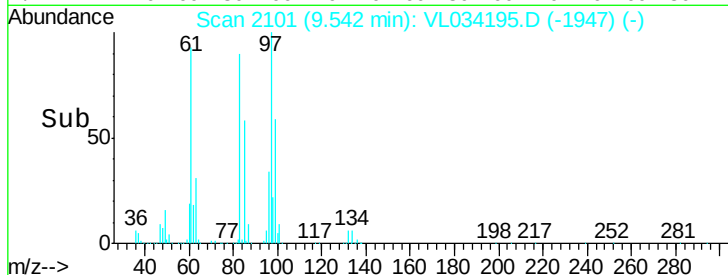
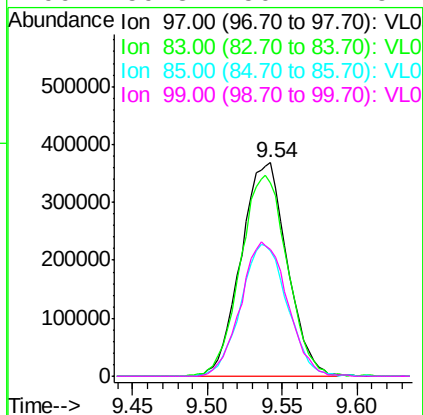
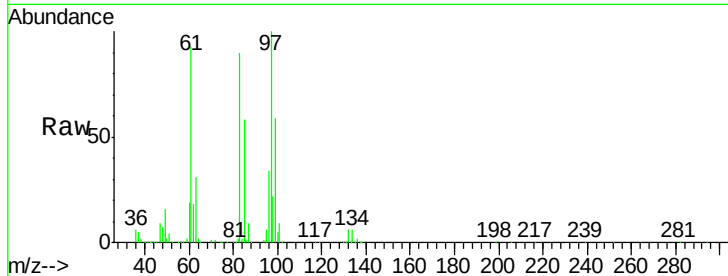
ClientSampleId :

VSTDCCC010EC

Tot Ion:	97	Resp:	790242
Ion	Ratio	Lower	Upper
97	100		
83	90.2	75.3	112.9
85	58.4	52.1	78.1
99	59.3	50.2	75.2

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#48

Dibromochloromethane

Concen: 9.920 ppbv

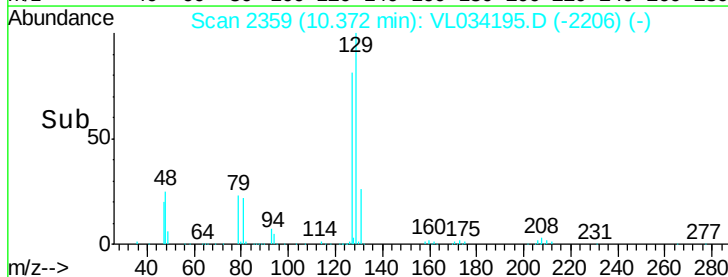
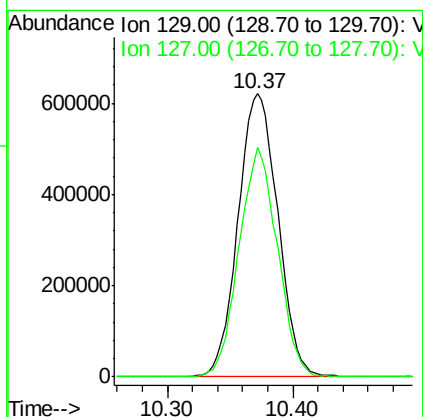
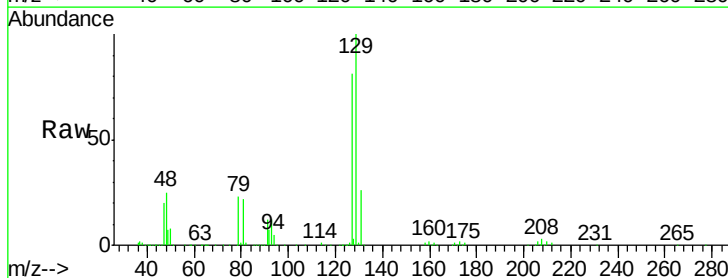
RT: 10.37 min Scan# 2359

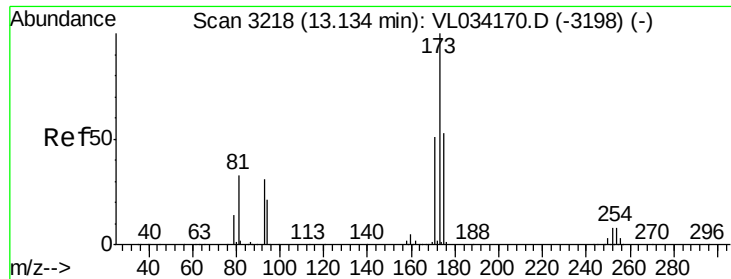
Delta R.T. -0.01 min

Lab File: VL034195.D

Acq: 19 Sep 2019 10:34

Tgt Ion:	129	Resp:	1366474
Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.2	117.6





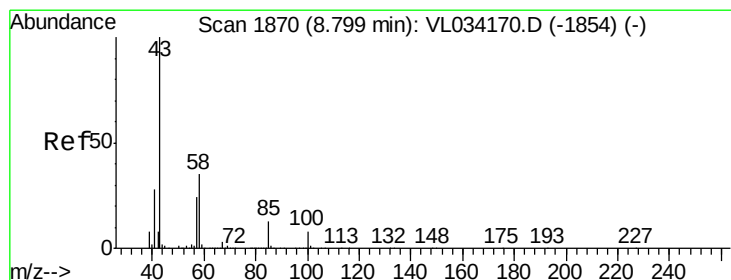
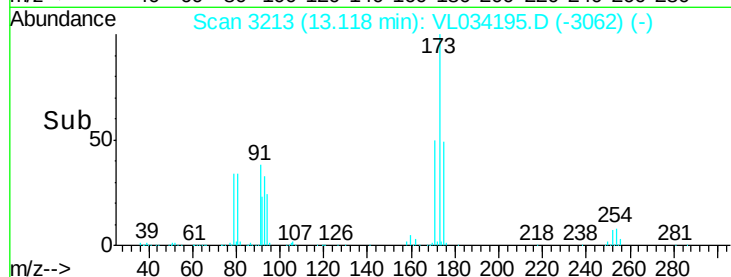
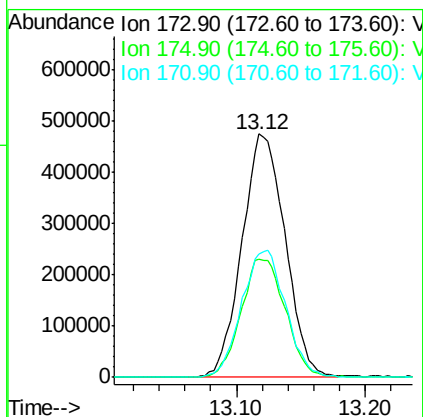
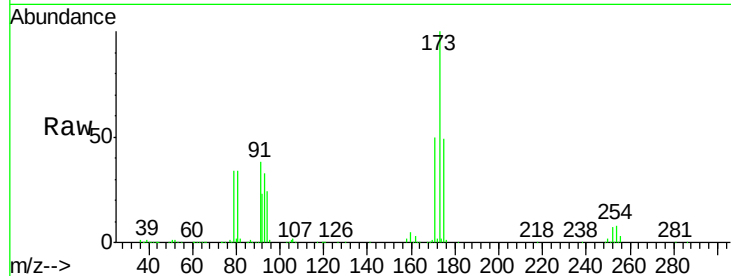
#49
Bromoform
Concen: 9.949 ppbv
RT: 13.12 min Scan# 3213
Delta R.T. -0.02 min
Lab File: VL034195.D
Acq: 19 Sep 2019 10:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:173 Resp: 1109076
Ion Ratio Lower Upper
173 100
175 50.1 40.3 60.5
171 53.2 42.0 63.0

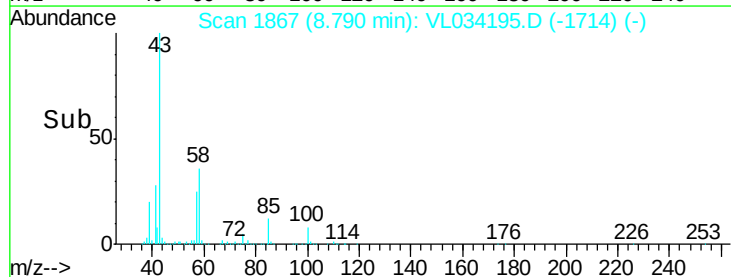
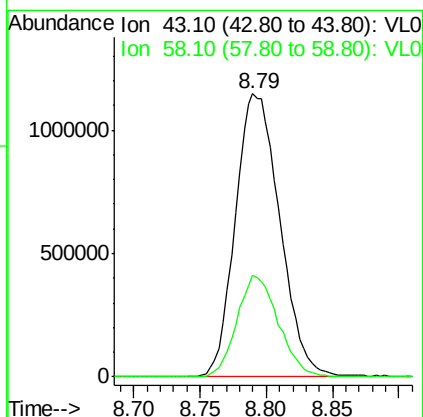
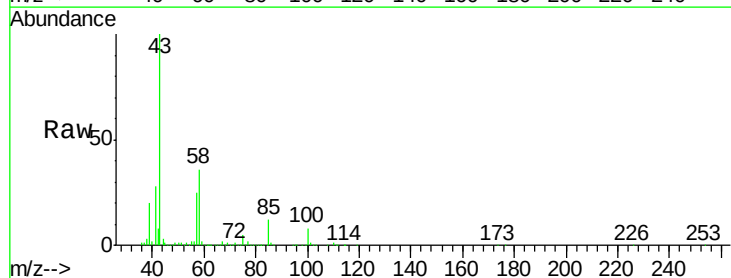
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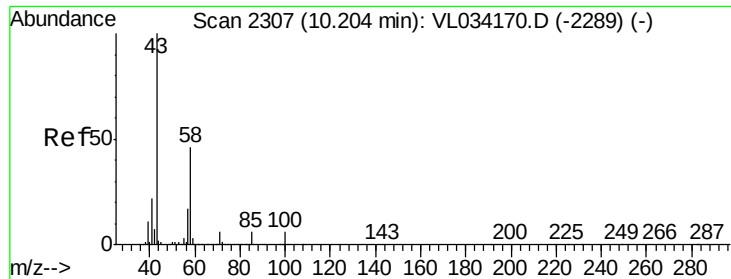
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 9.194 ppbv
RT: 8.79 min Scan# 1867
Delta R.T. -0.01 min
Lab File: VL034195.D
Acq: 19 Sep 2019 10:34

Tgt Ion: 43 Resp: 2664827
Ion Ratio Lower Upper
43 100
58 33.7 27.6 41.4





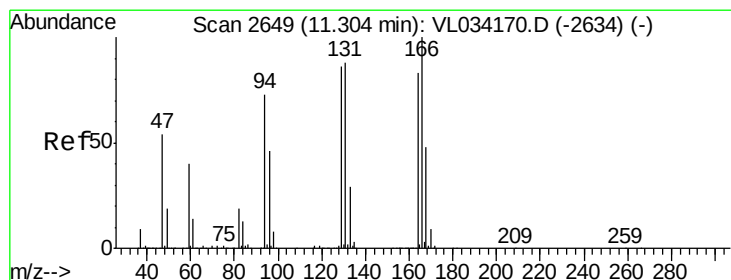
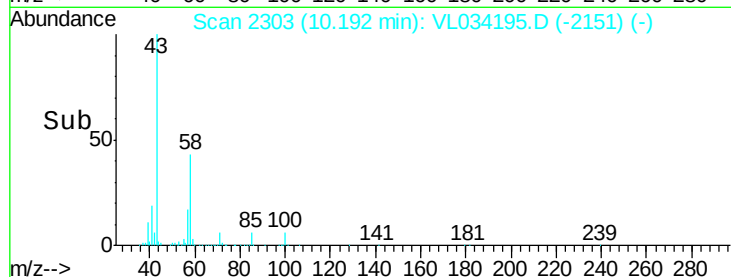
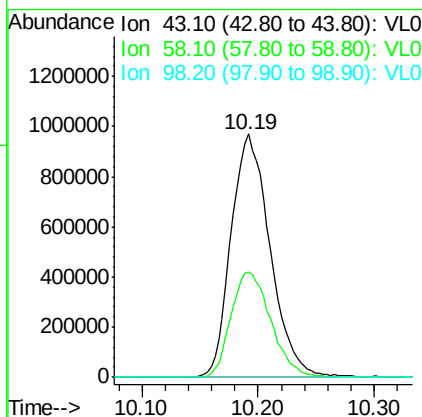
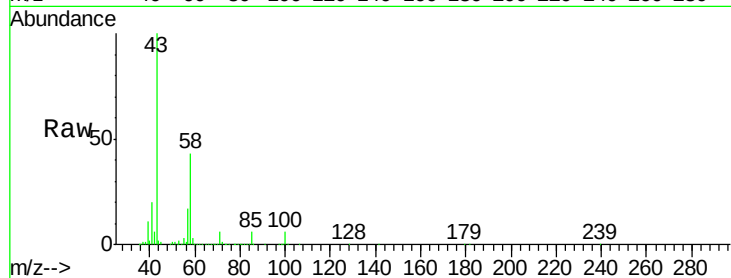
#51
2-Hexanone
Concen: 9.286 ppbv
RT: 10.19 min Scan# 2303
Delta R.T. -0.01 min
Lab File: VL034195.D
Acq: 19 Sep 2019 10:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 2258819
Ion Ratio Lower Upper
43 100
58 44.4 36.2 54.4
98 0.1 0.2 0.2#

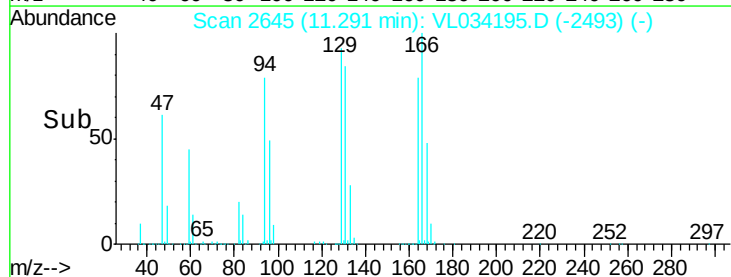
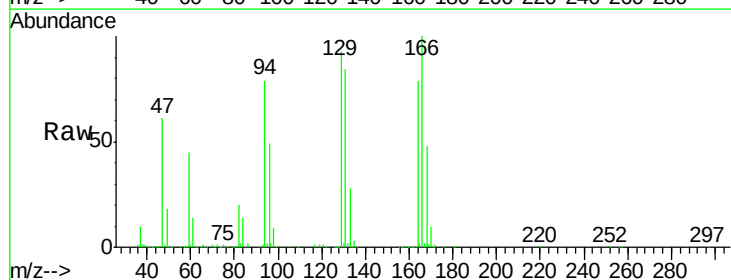
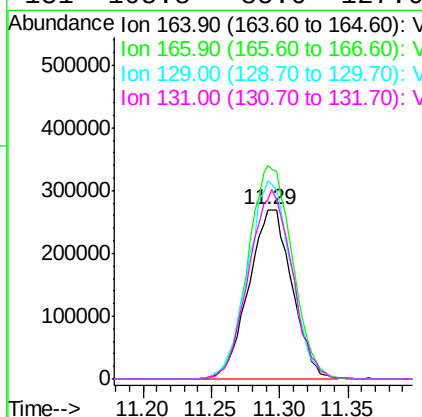
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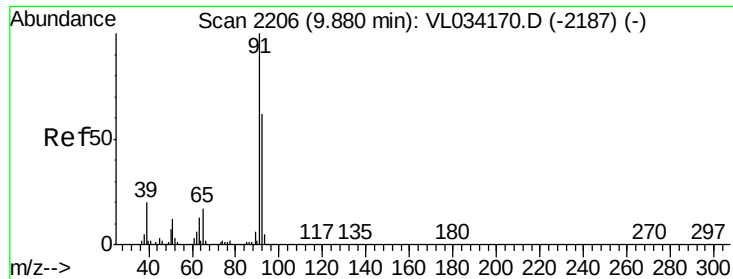
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#52
Tetrachloroethene
Concen: 8.359 ppbv
RT: 11.29 min Scan# 2645
Delta R.T. -0.01 min
Lab File: VL034195.D
Acq: 19 Sep 2019 10:34

Tgt Ion: 164 Resp: 594931
Ion Ratio Lower Upper
164 100
166 126.0 96.7 145.1
129 116.7 82.8 124.2
131 105.8 85.0 127.6





#53

Toluene

Concen: 9.241 ppbv

RT: 9.87 min Scan# 2202

Delta R.T. -0.01 min

Lab File: VL034195.D

Acq: 19 Sep 2019 10:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2175744

Ion Ratio Lower Upper

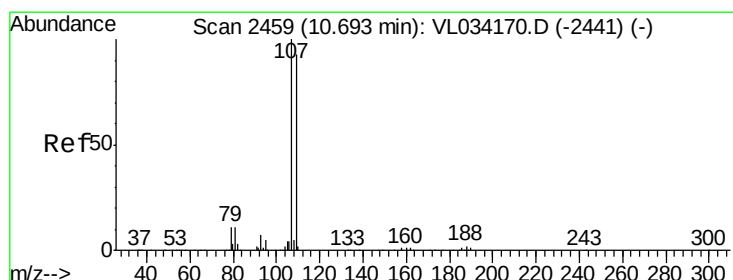
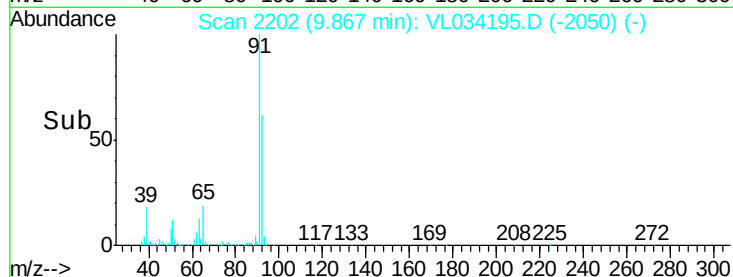
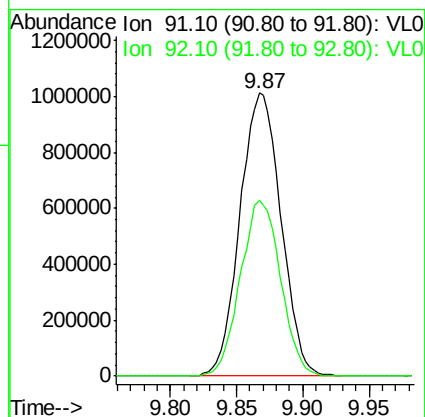
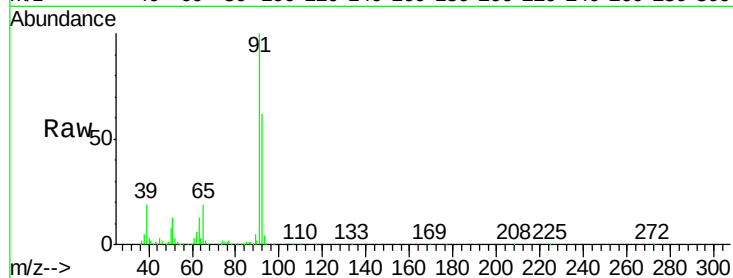
91 100

92 61.0 49.0 73.6

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#54

1,2-Dibromoethane

Concen: 9.184 ppbv

RT: 10.68 min Scan# 2454

Delta R.T. -0.02 min

Lab File: VL034195.D

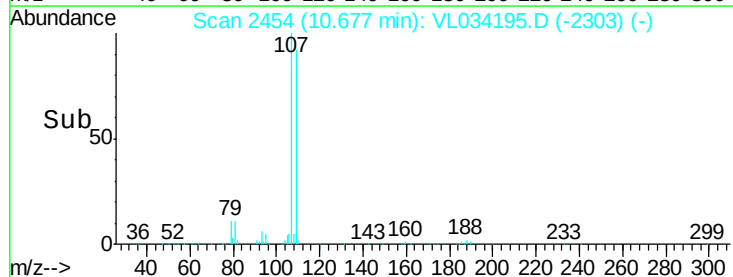
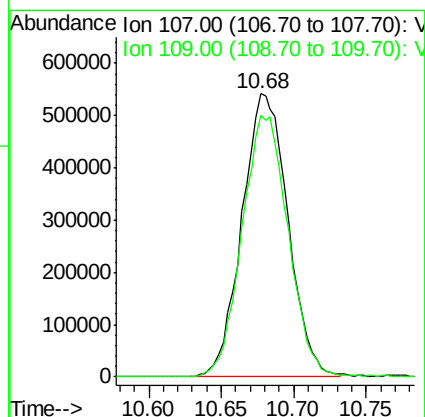
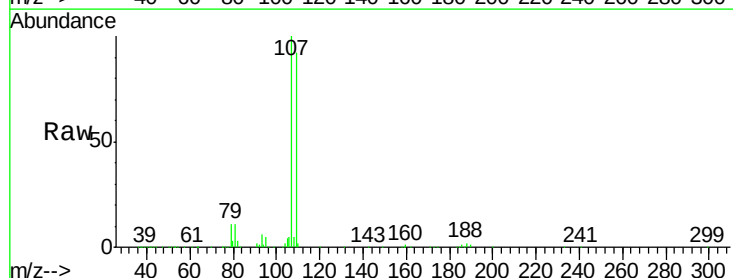
Acq: 19 Sep 2019 10:34

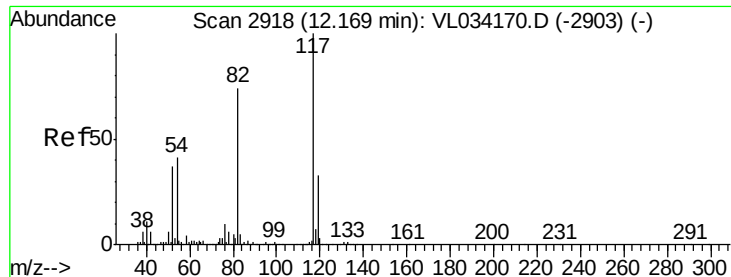
Tgt Ion: 107 Resp: 1187043

Ion Ratio Lower Upper

107 100

109 92.2 74.5 111.7





#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.16 min Scan# 2915

Delta R.T. -0.01 min

Lab File: VL034195.D

Acq: 19 Sep 2019 10:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 2101716

Ion Ratio Lower Upper

117 100

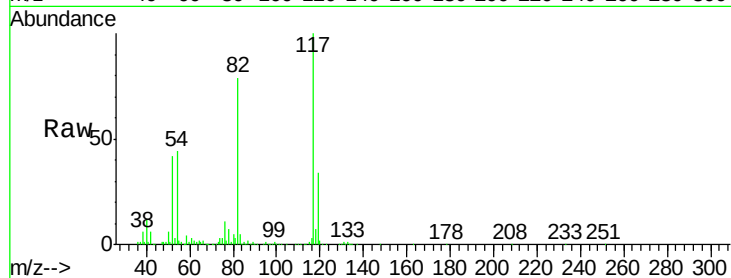
82 76.0 58.2 87.4

119 57.7 23.7 35.5#

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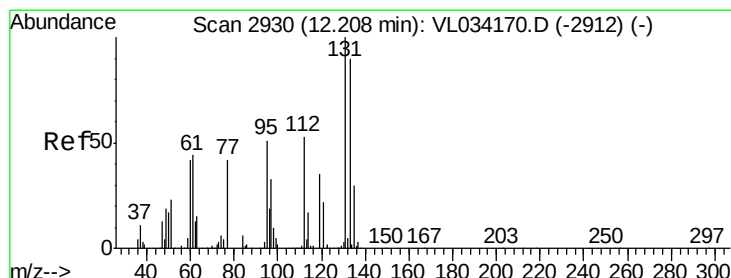
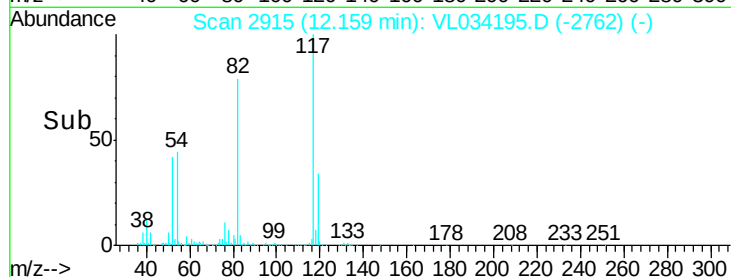
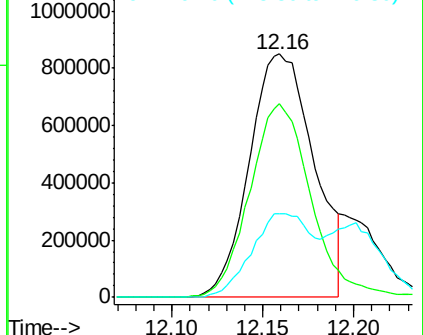
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Abundance Ion 117.10 (116.80 to 117.80): V

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: 9.338 ppbv

RT: 12.20 min Scan# 2927

Delta R.T. -0.01 min

Lab File: VL034195.D

Acq: 19 Sep 2019 10:34

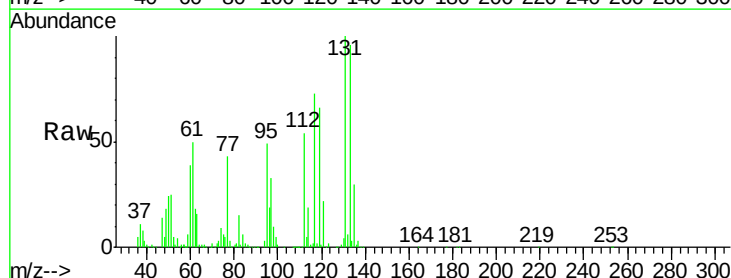
Tgt Ion:131 Resp: 875229

Ion Ratio Lower Upper

131 100

133 96.0 75.1 112.7

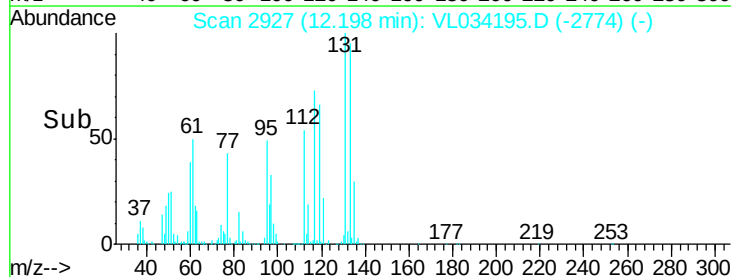
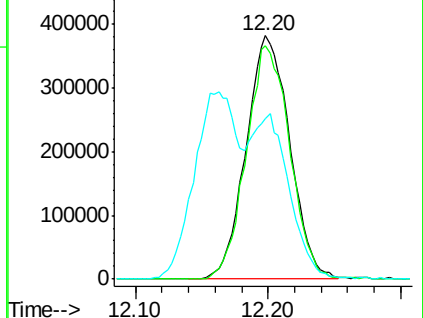
119 60.0 47.4 71.0

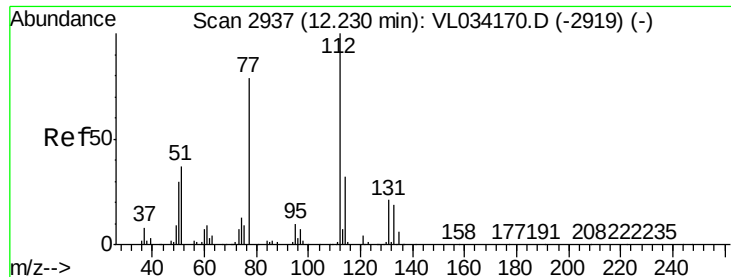


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 8.506 ppbv

RT: 12.22 min Scan# 2935

Delta R.T. -0.01 min

Lab File: VL034195.D

Acq: 19 Sep 2019 10:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 112 Resp: 1556506

Ion Ratio Lower Upper

112 100

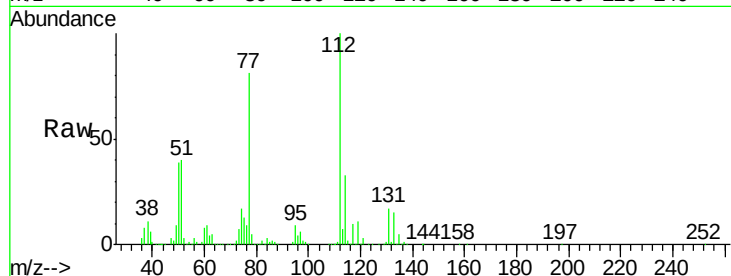
77 80.2 64.3 96.5

114 32.4 28.9 35.3

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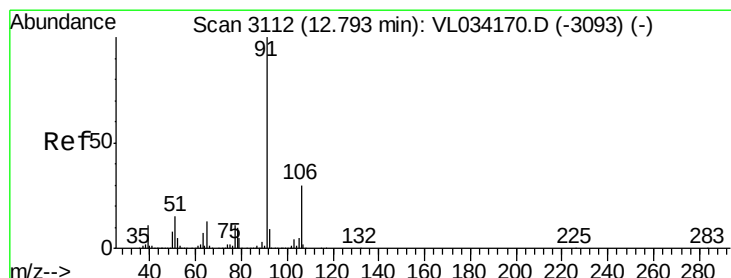
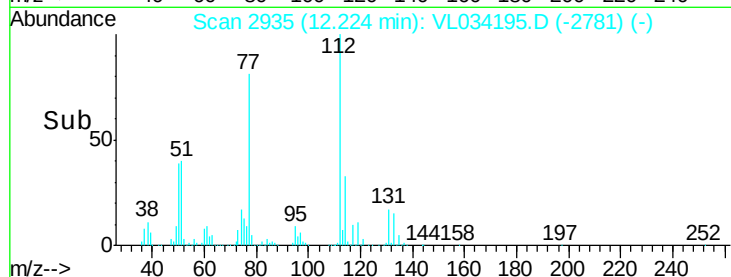
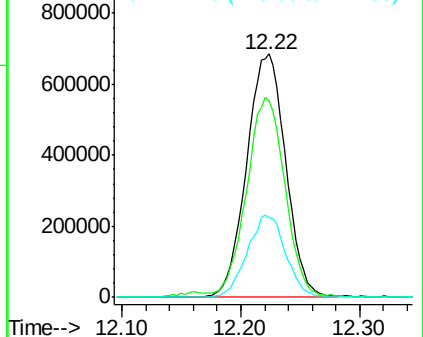
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 8.859 ppbv m

RT: 12.78 min Scan# 3108

Delta R.T. -0.01 min

Lab File: VL034195.D

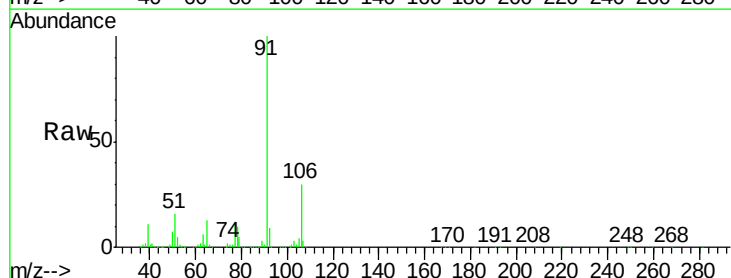
Acq: 19 Sep 2019 10:34

Tgt Ion: 91 Resp: 3004378

Ion Ratio Lower Upper

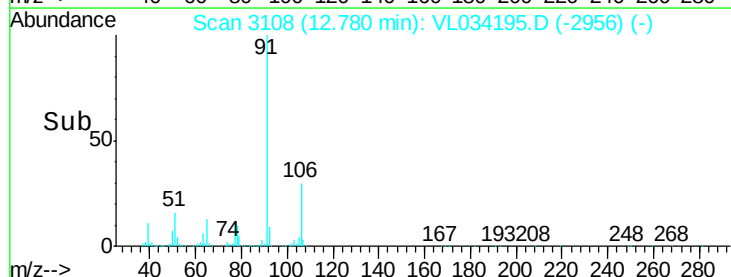
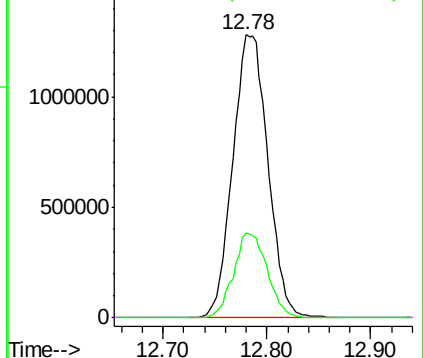
91 100

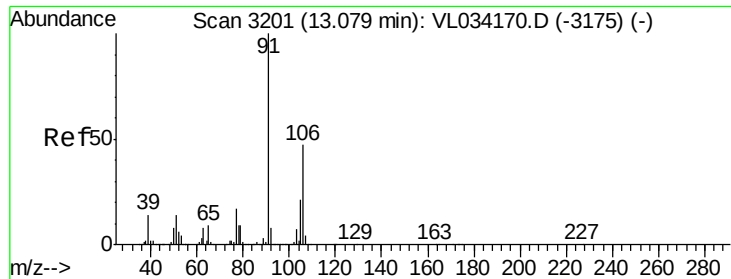
106 29.9 24.2 36.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





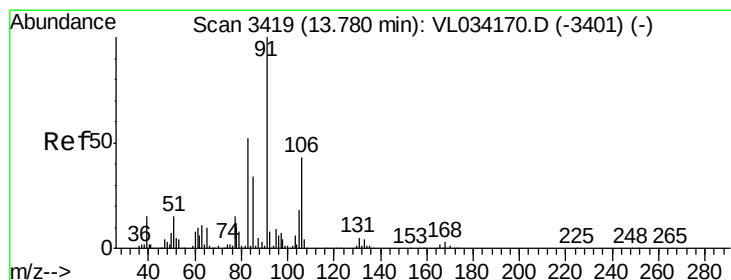
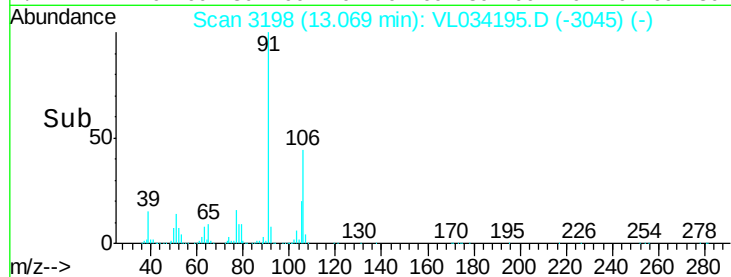
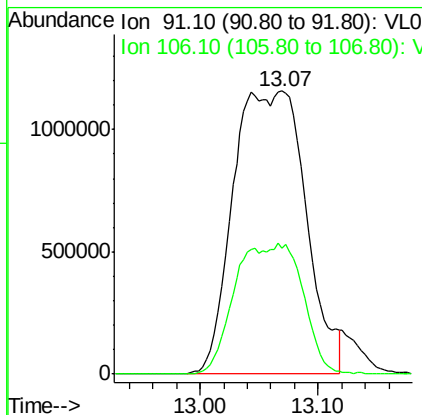
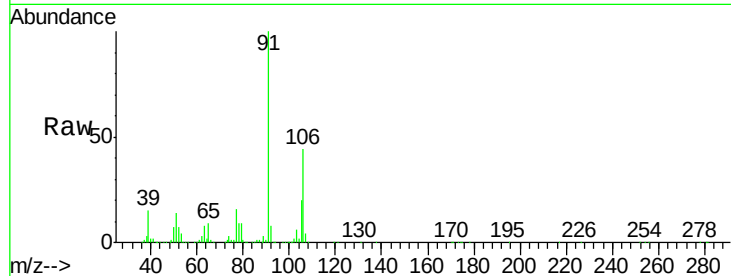
#59
m/p-Xylene
Concen: 17.579 ppbv m
RT: 13.07 min Scan# 3198
Delta R.T. -0.01 min
Lab File: VL034195.D
Acq: 19 Sep 2019 10:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 4937695
Ion Ratio Lower Upper
91 100
106 43.2 35.5 53.3

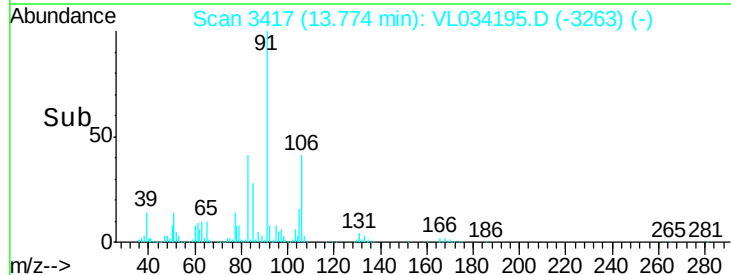
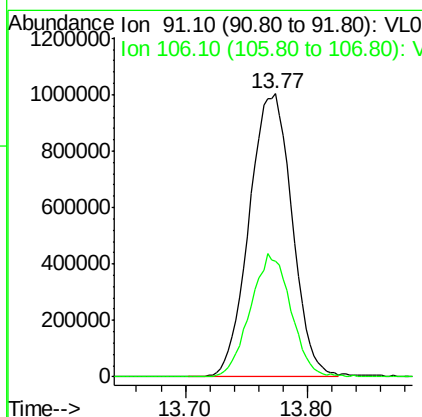
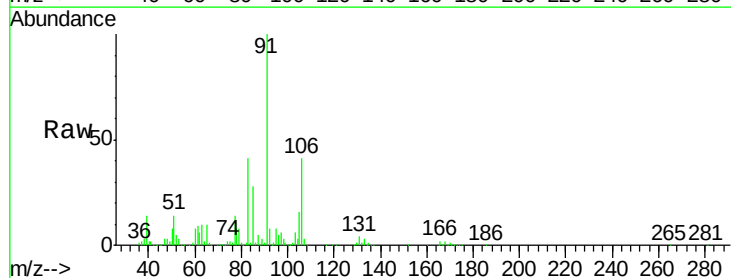
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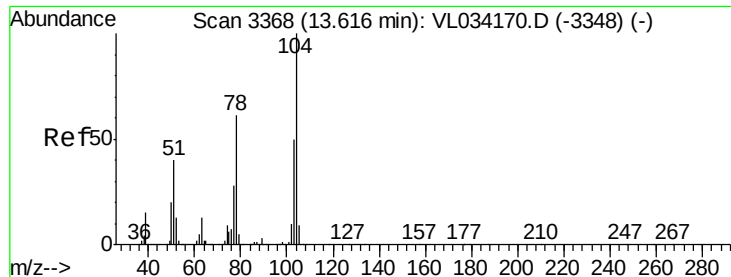
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#60
o-Xylene
Concen: 8.682 ppbv
RT: 13.77 min Scan# 3417
Delta R.T. -0.01 min
Lab File: VL034195.D
Acq: 19 Sep 2019 10:34

Tgt Ion: 91 Resp: 2438480
Ion Ratio Lower Upper
91 100
106 41.4 21.2 63.6





#61

Stvrene

Concen: 8.912 ppbv

RT: 13.61 min Scan# 3365

Delta R.T. -0.01 min

Lab File: VL034195.D

Acq: 19 Sep 2019 10:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 1792933

Ion Ratio Lower Upper

104 100

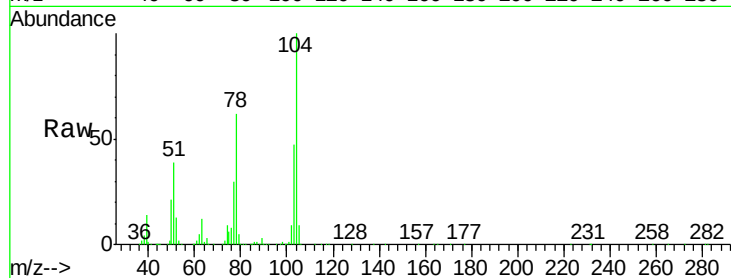
78 62.6 49.7 74.5

103 48.3 38.4 57.6

Manual Integrations
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MMDadoda

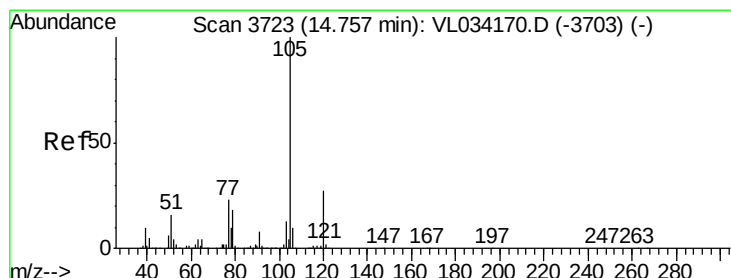
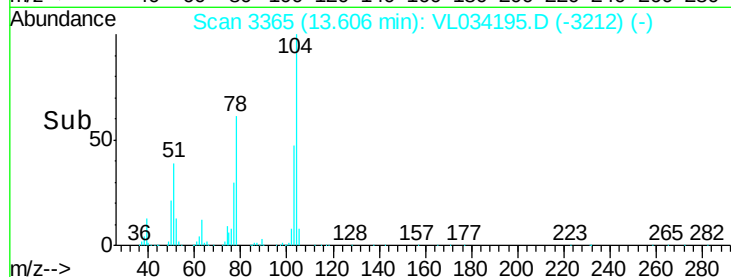
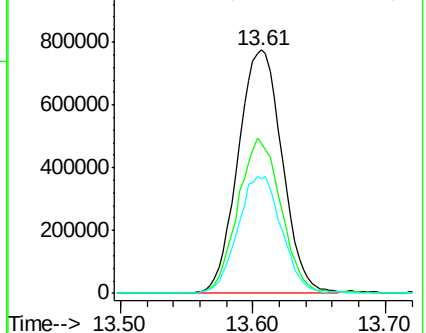
9/20/2019 12:37:20 AM



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: 8.715 ppbv

RT: 14.75 min Scan# 3720

Delta R.T. -0.01 min

Lab File: VL034195.D

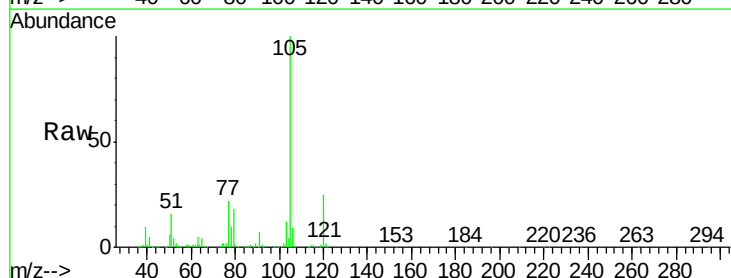
Acq: 19 Sep 2019 10:34

Tgt Ion:105 Resp: 3168624

Ion Ratio Lower Upper

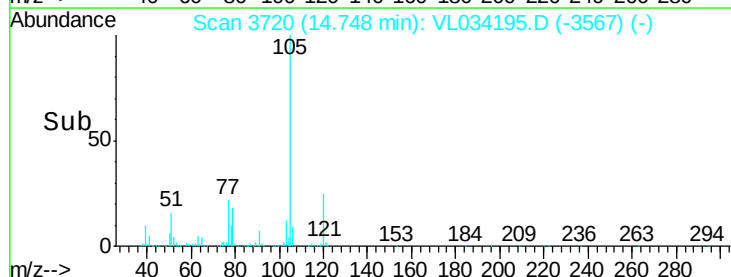
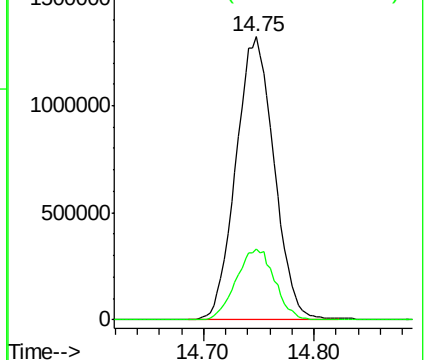
105 100

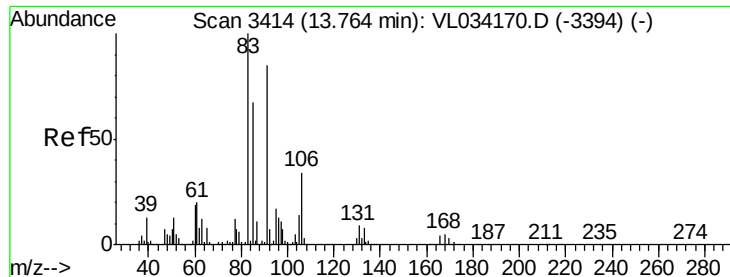
120 25.4 20.7 31.1



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: 7.712 ppbv

RT: 13.76 min Scan# 3412

Delta R.T. -0.01 min

Lab File: VL034195.D

Acq: 19 Sep 2019 10:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 1776068

Ion Ratio Lower Upper

83 100

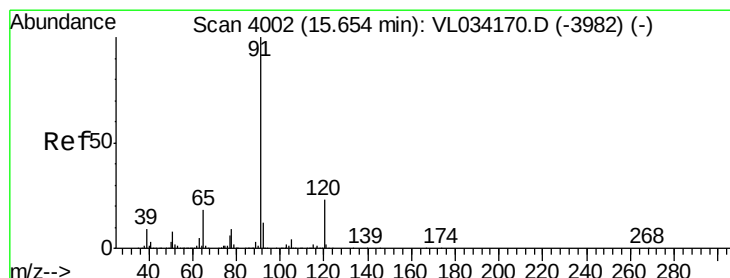
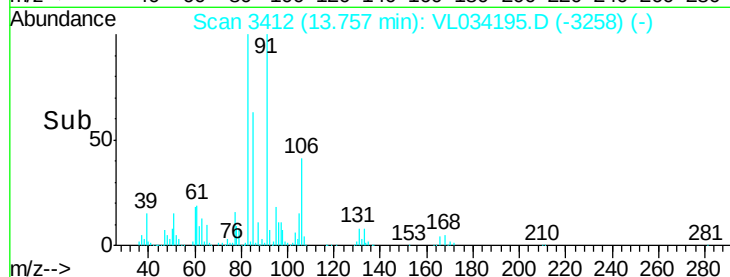
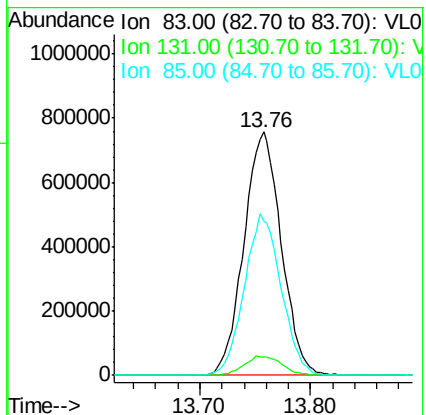
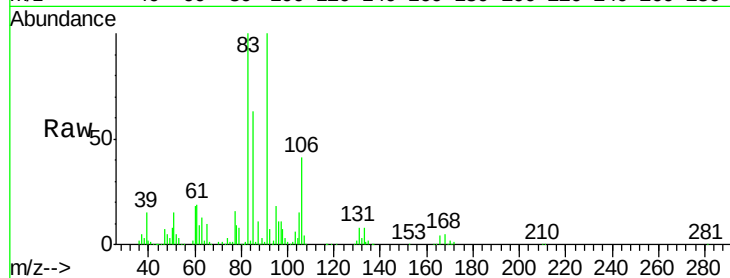
131 8.1 4.3 12.8

85 65.4 32.8 98.4

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#64

n-propylbenzene

Concen: 8.825 ppbv

RT: 15.64 min Scan# 3998

Delta R.T. -0.01 min

Lab File: VL034195.D

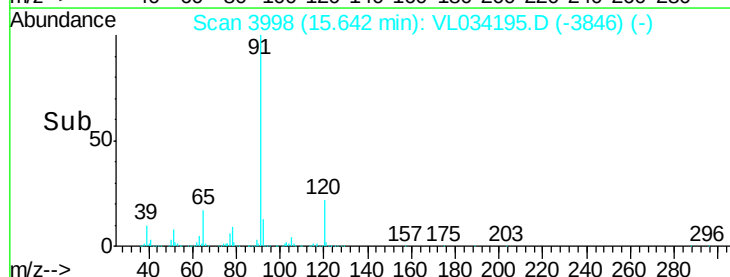
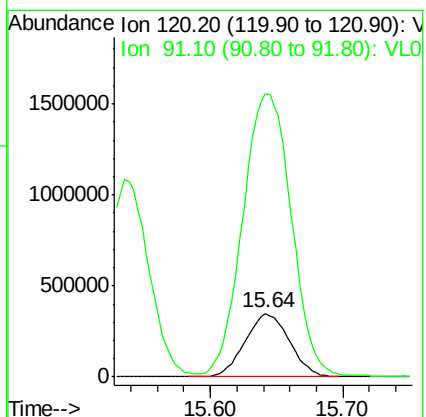
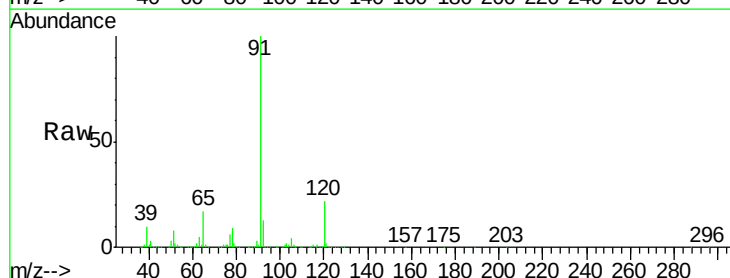
Acq: 19 Sep 2019 10:34

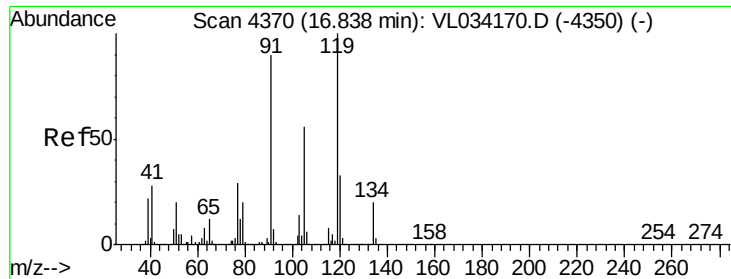
Tgt Ion: 120 Resp: 811796

Ion Ratio Lower Upper

120 100

91 490.0 378.2 567.2





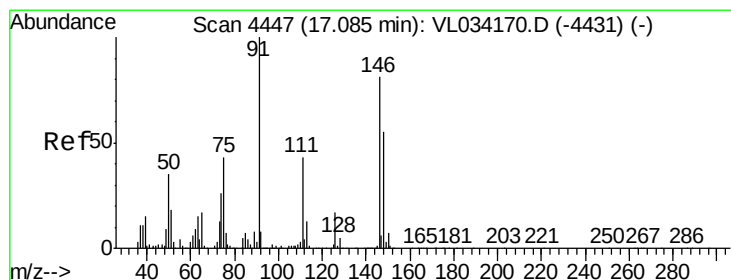
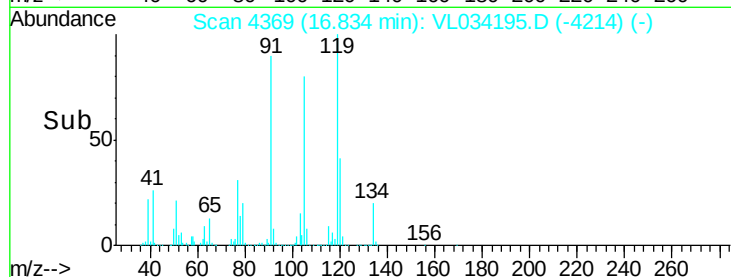
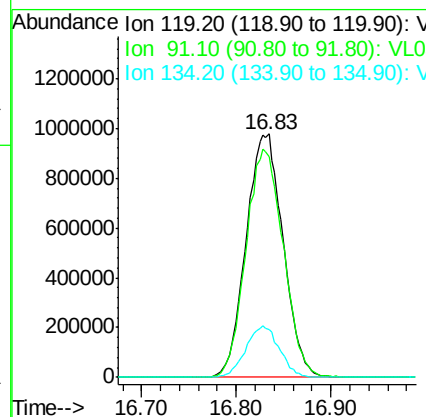
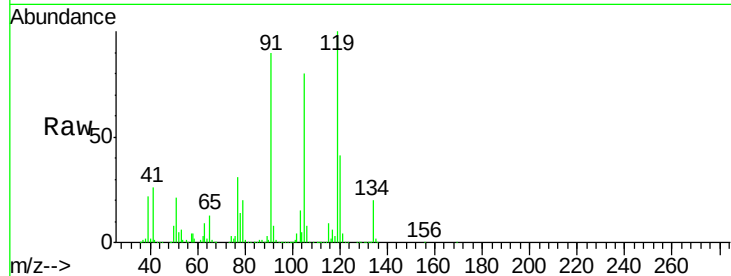
#65
 tert-Butylbenzene
 Concen: 8.358 ppbv
 RT: 16.83 min Scan# 4369
 Delta R.T. -0.00 min
 Lab File: VL034195.D
 Acq: 19 Sep 2019 10:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:119 Resp: 2655307
 Ion Ratio Lower Upper
 119 100
 91 94.9 74.9 112.3
 134 19.3 15.8 23.6

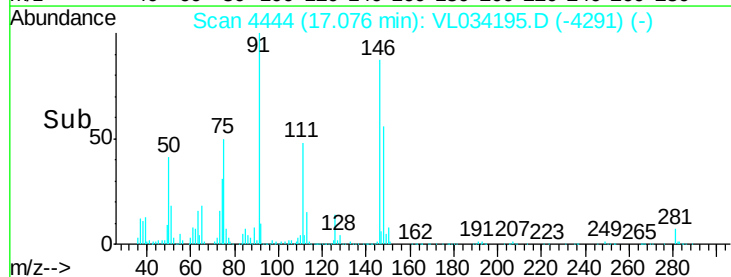
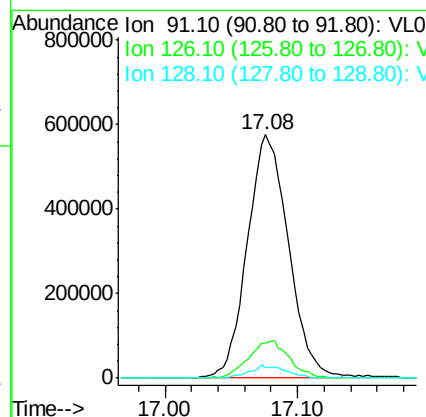
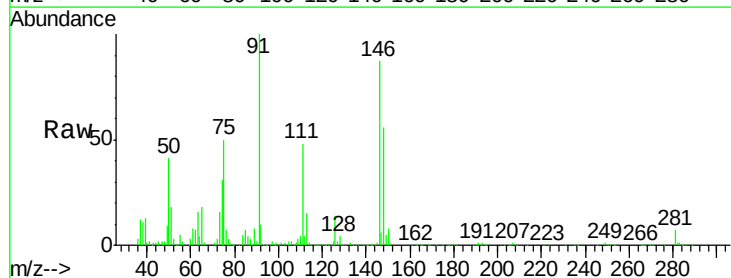
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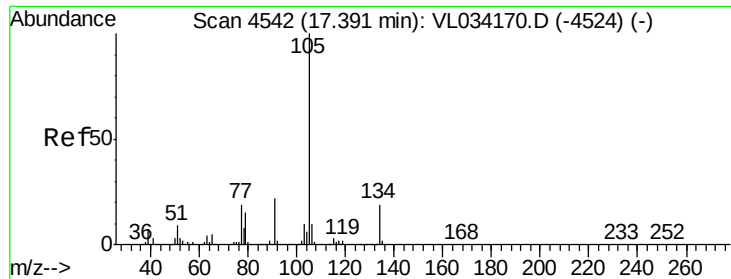
MMDadoda
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#66
 Benzyl Chloride
 Concen: 11.035 ppbv
 RT: 17.08 min Scan# 4444
 Delta R.T. -0.01 min
 Lab File: VL034195.D
 Acq: 19 Sep 2019 10:34

Tgt Ion: 91 Resp: 1240290
 Ion Ratio Lower Upper
 91 100
 126 15.3 12.6 19.0
 128 4.6 4.0 6.0





#67

sec-Butylbenzene

Concen: 8.483 ppbv

RT: 17.38 min Scan# 4539

Delta R.T. -0.01 min

Lab File: VL034195.D

Acq: 19 Sep 2019 10:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 3853780

Ion Ratio Lower Upper

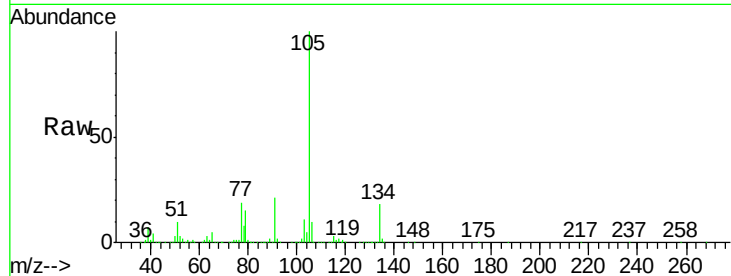
105 100

134 17.9 14.6 22.0

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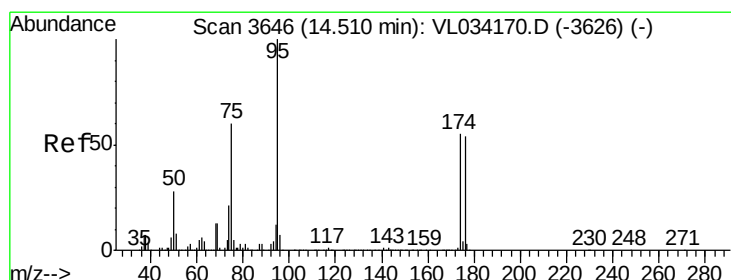
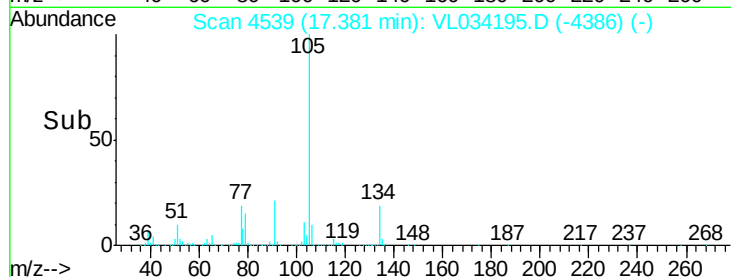
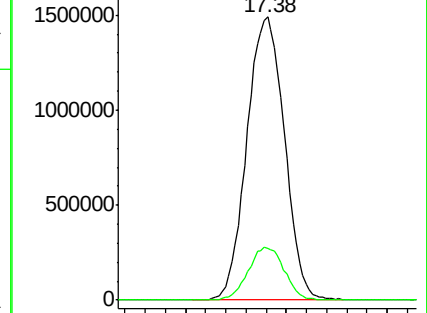
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.983 ppbv

RT: 14.50 min Scan# 3642

Delta R.T. -0.01 min

Lab File: VL034195.D

Acq: 19 Sep 2019 10:34

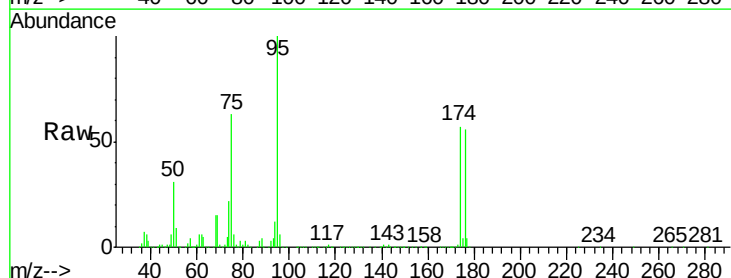
Tgt Ion: 95 Resp: 1823178

Ion Ratio Lower Upper

95 100

174 56.0 45.1 67.7

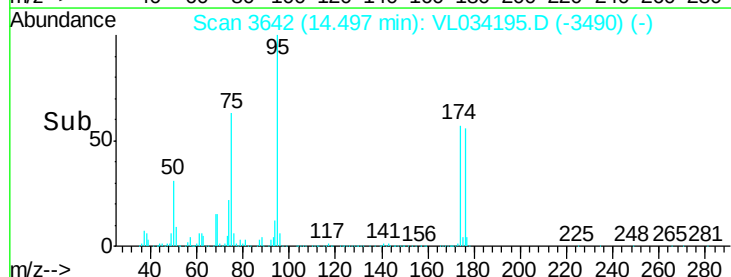
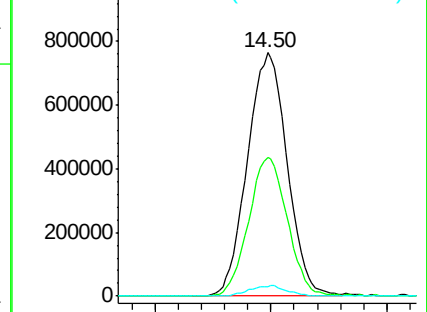
175 4.1 3.3 4.9

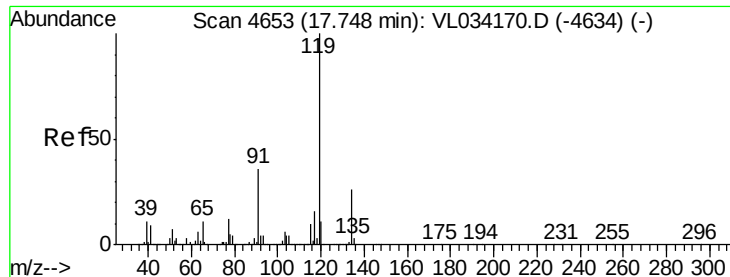


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





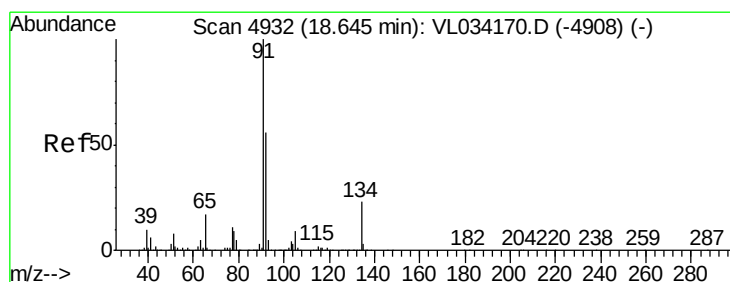
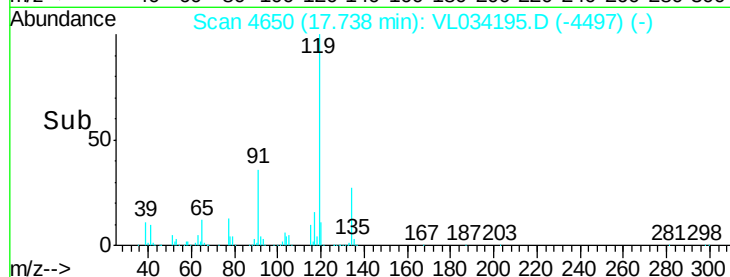
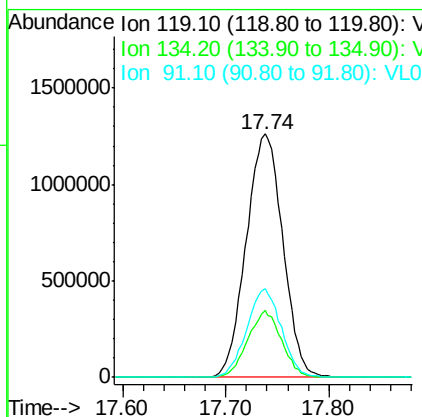
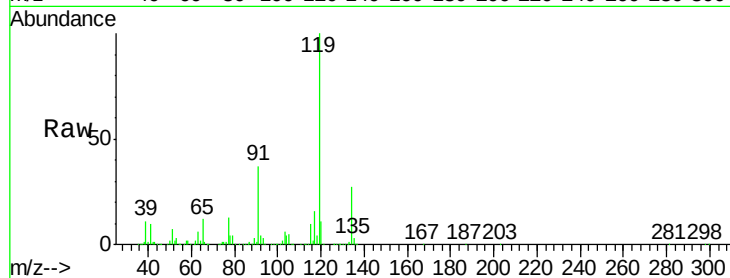
#69
 p-Isopropyltoluene
 Concen: 8.448 ppbv
 RT: 17.74 min Scan# 4650
 Delta R.T. -0.01 min
 Lab File: VL034195.D
 Acq: 19 Sep 2019 10:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.5	20.6	30.8
91	34.7	27.6	41.4

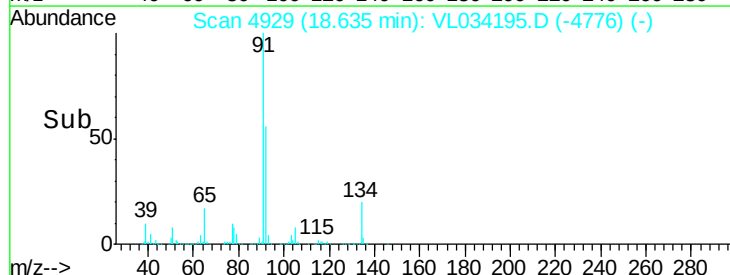
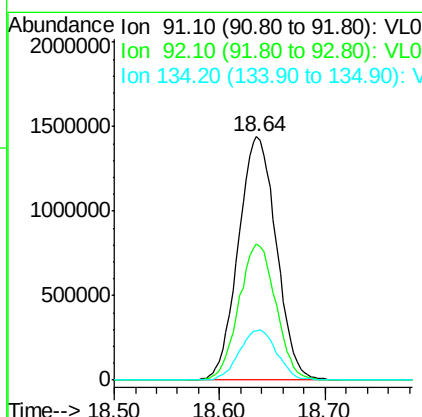
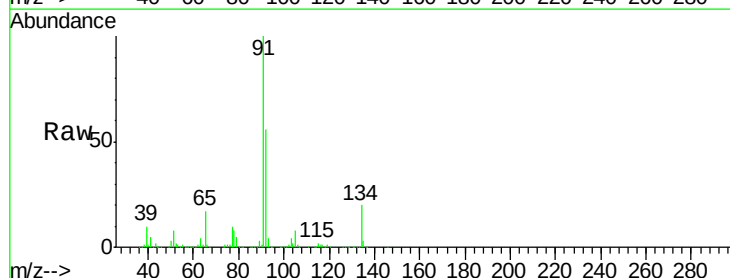
Manual Integrations
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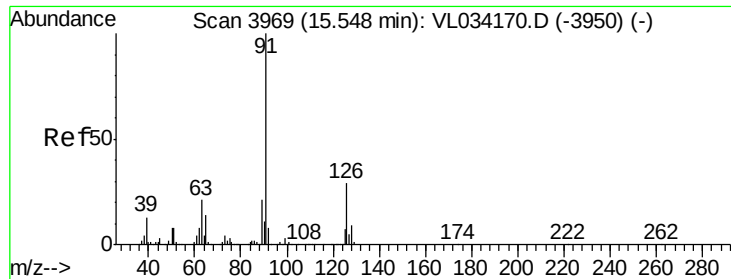
MMDadoda
 9/20/2019 12:37:20 AM



#70
 n-Butylbenzene
 Concen: 8.415 ppbv
 RT: 18.64 min Scan# 4929
 Delta R.T. -0.01 min
 Lab File: VL034195.D
 Acq: 19 Sep 2019 10:34

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.5	44.8	67.2
134	20.4	17.3	25.9





#71

2-Chlorotoluene

Concen: 8.605 ppbv

RT: 15.54 min Scan# 3965

Delta R.T. -0.01 min

Lab File: VL034195.D

Acq: 19 Sep 2019 10:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2556376

Ion Ratio Lower Upper

91 100

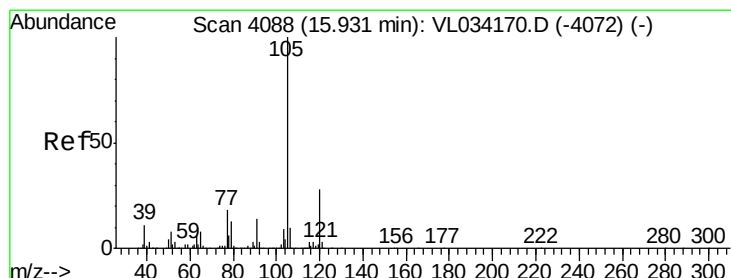
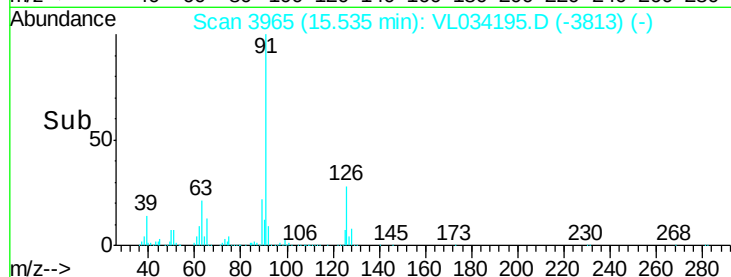
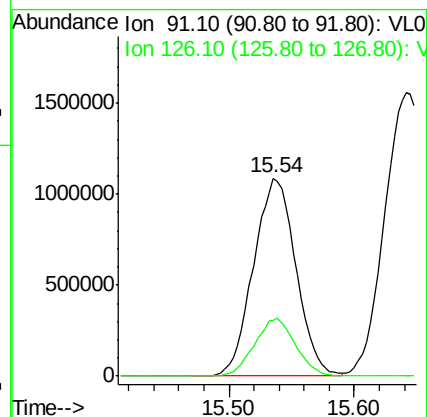
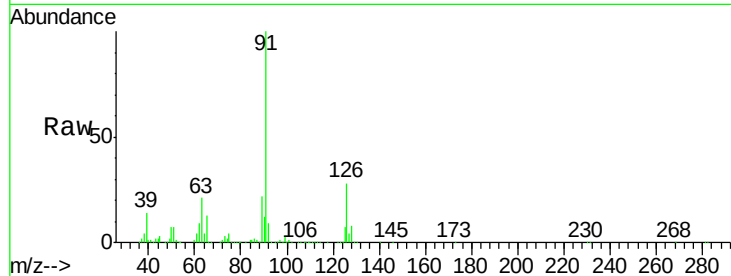
126 28.3 11.2 45.0

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#72

4-Ethyltoluene

Concen: 8.789 ppbv

RT: 15.92 min Scan# 4085

Delta R.T. -0.01 min

Lab File: VL034195.D

Acq: 19 Sep 2019 10:34

Tgt Ion:105 Resp: 2788973

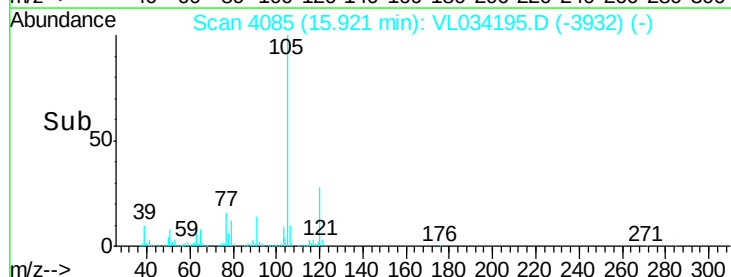
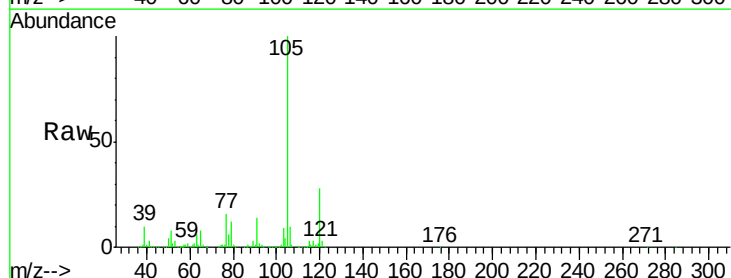
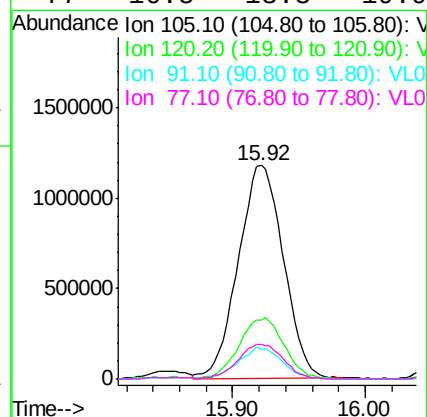
Ion Ratio Lower Upper

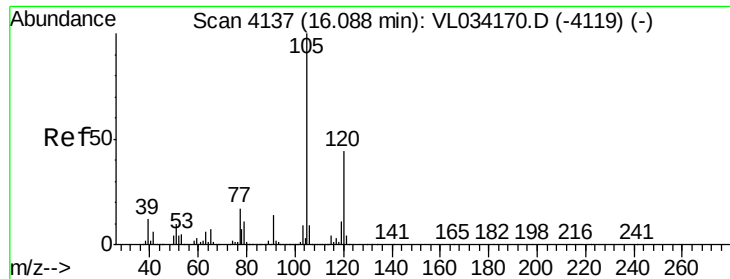
105 100

120 28.6 23.3 34.9

91 14.3 11.4 17.2

77 16.5 13.3 19.9





#73

1,3,5-Trimethylbenzene

Concen: 8.659 ppbv

RT: 16.08 min Scan# 4134

Delta R.T. -0.01 min

Lab File: VL034195.D

Acq: 19 Sep 2019 10:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 2654600

Ion Ratio Lower Upper

105 100

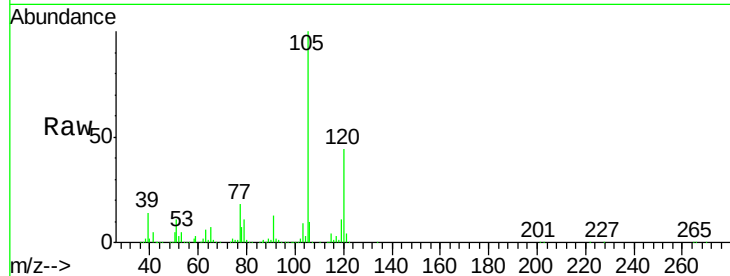
120 44.4 35.6 53.4

Manual Integrations

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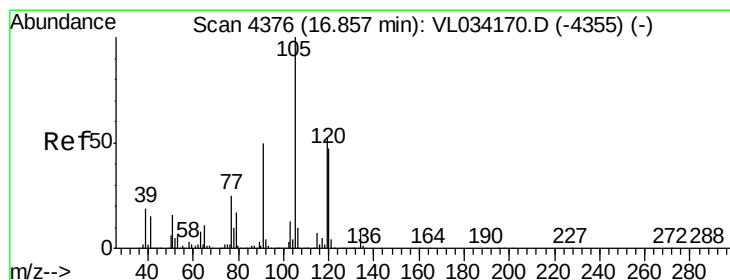
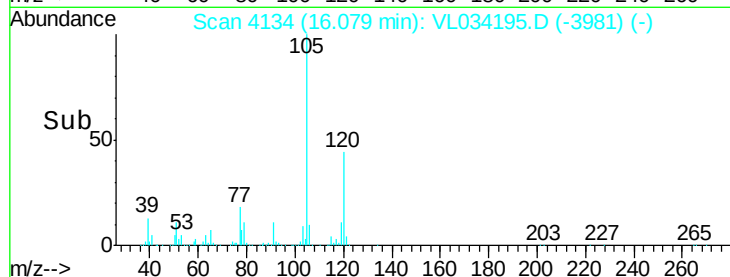
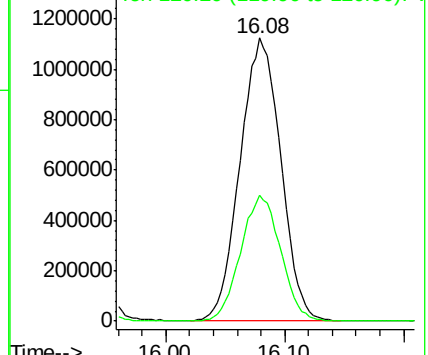
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 8.236 ppbv

RT: 16.85 min Scan# 4374

Delta R.T. -0.01 min

Lab File: VL034195.D

Acq: 19 Sep 2019 10:34

Tgt Ion:105 Resp: 2680844

Ion Ratio Lower Upper

105 100

120 45.0 37.5 56.3

91 45.5 41.1 61.7

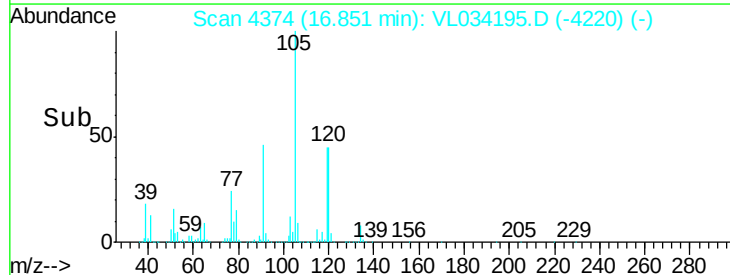
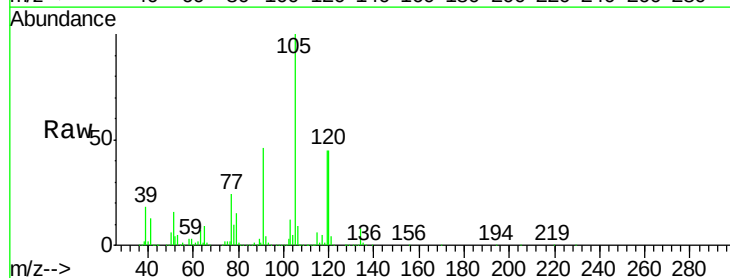
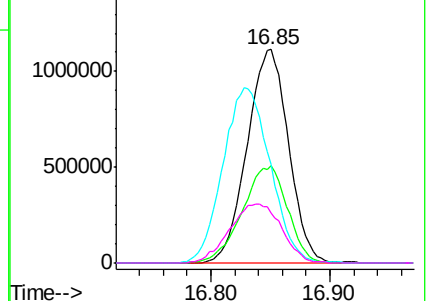
77 23.5 19.9 29.9

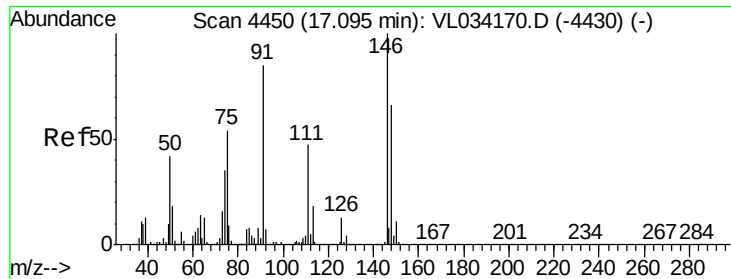
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





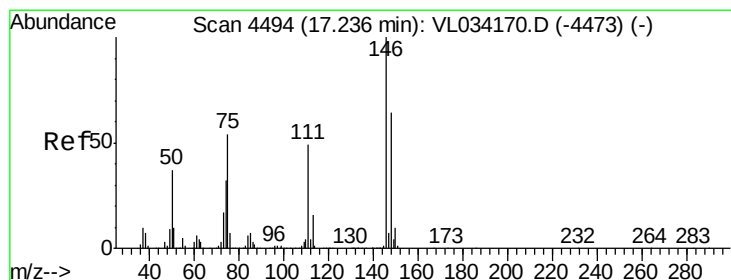
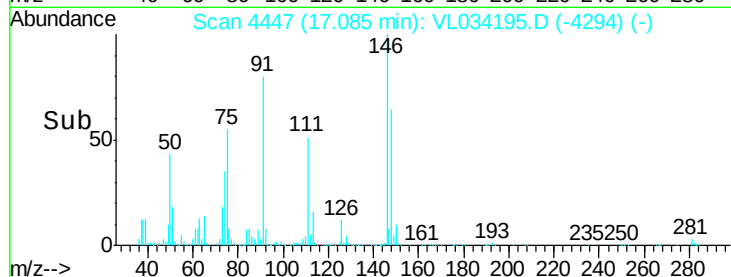
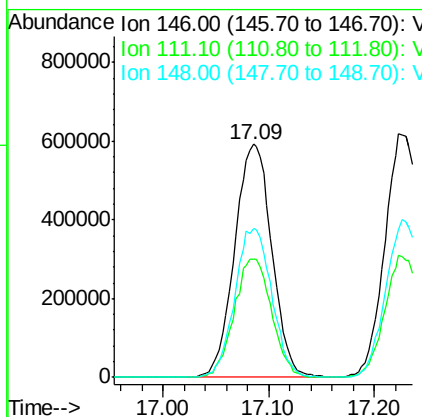
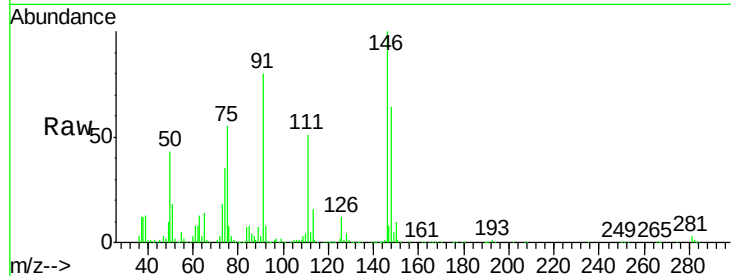
#75
 1,3-Dichlorobenzene
 Concen: 8.280 ppbv
 RT: 17.09 min Scan# 4447
 Delta R.T. -0.01 min
 Lab File: VL034195.D
 Acq: 19 Sep 2019 10:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	51.4	25.9	77.8
148	63.8	32.6	97.7

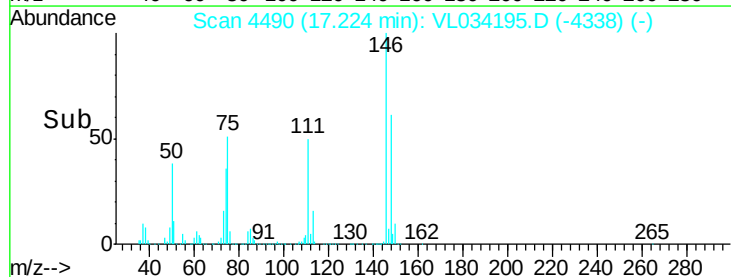
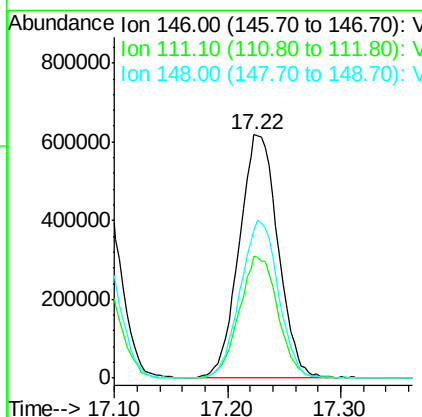
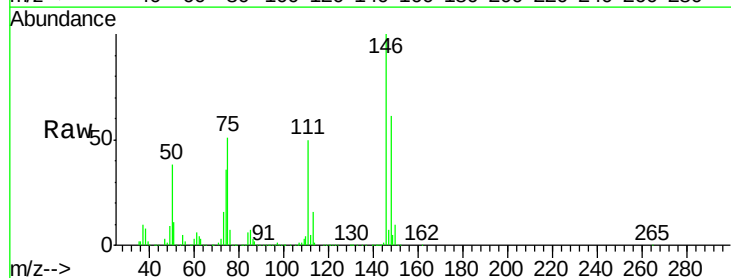
Manual Integrations
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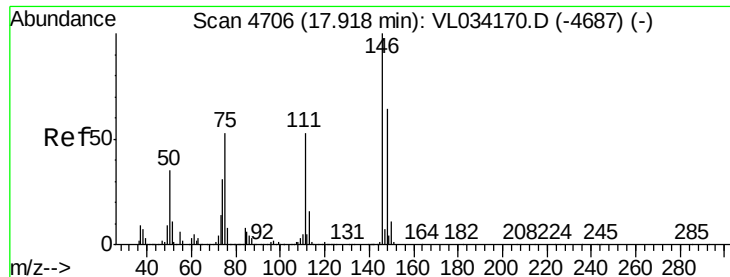
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#76
 1,4-Dichlorobenzene
 Concen: 8.212 ppbv
 RT: 17.22 min Scan# 4490
 Delta R.T. -0.01 min
 Lab File: VL034195.D
 Acq: 19 Sep 2019 10:34

Tgt Ion	Ratio	Lower	Upper
146	100		
111	50.4	24.6	74.0
148	64.3	32.4	97.0





#77

1,2-Dichlorobenzene

Concen: 8.090 ppbv

RT: 17.91 min Scan# 4703

Delta R.T. -0.01 min

Lab File: VL034195.D

Acq: 19 Sep 2019 10:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 1430066

Ion Ratio Lower Upper

146 100

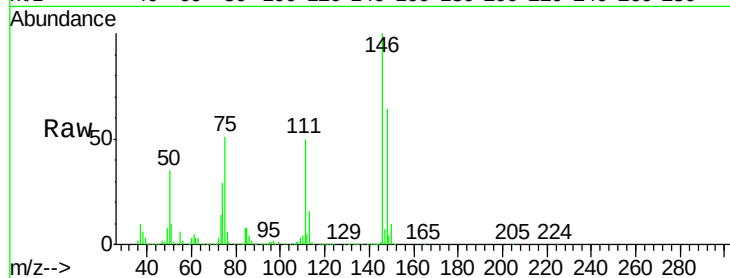
111 53.2 26.1 78.3

148 64.8 31.9 95.9

Manual Integrations
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MMDadoda

9/20/2019 12:37:20 AM

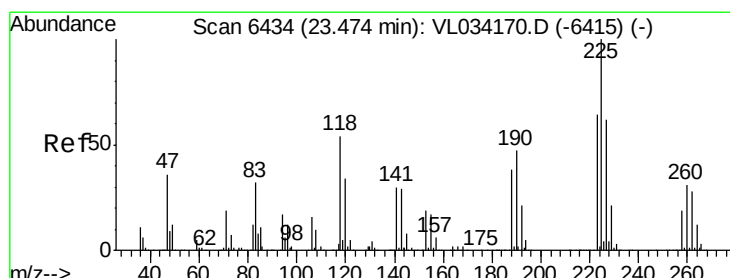
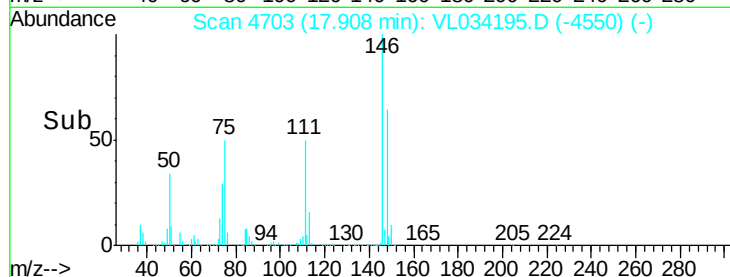
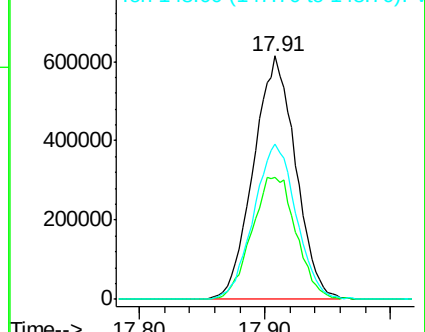


Abundance

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: 9.004 ppbv

RT: 23.46 min Scan# 6431

Delta R.T. -0.01 min

Lab File: VL034195.D

Acq: 19 Sep 2019 10:34

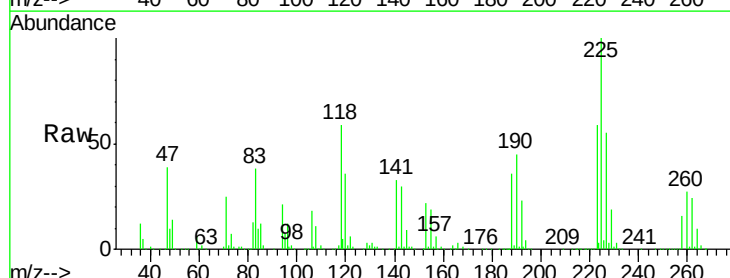
Tgt Ion:225 Resp: 1054169

Ion Ratio Lower Upper

225 100

223 63.6 51.7 77.5

227 63.1 52.1 78.1

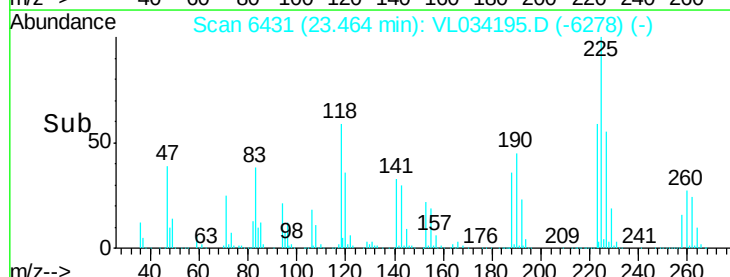
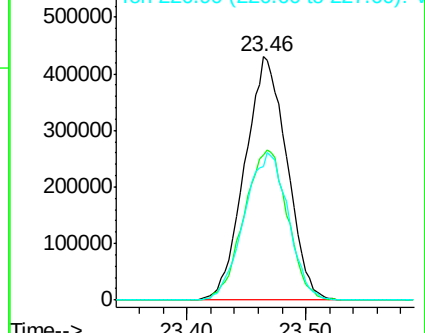


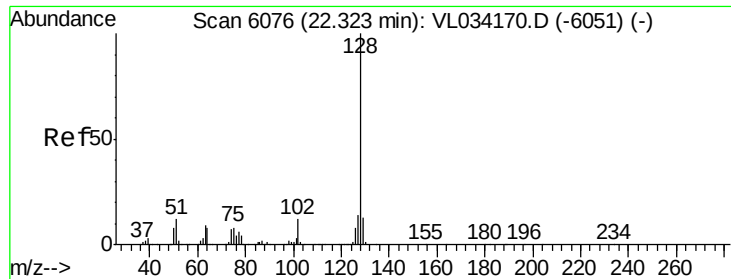
Abundance

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





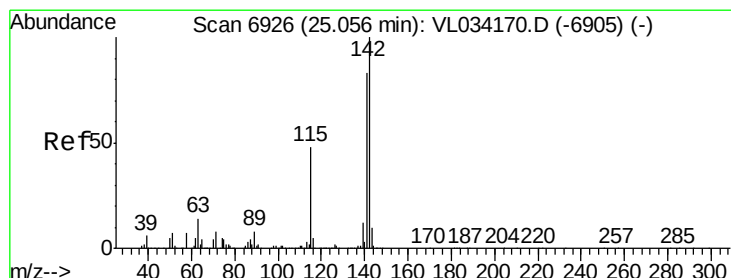
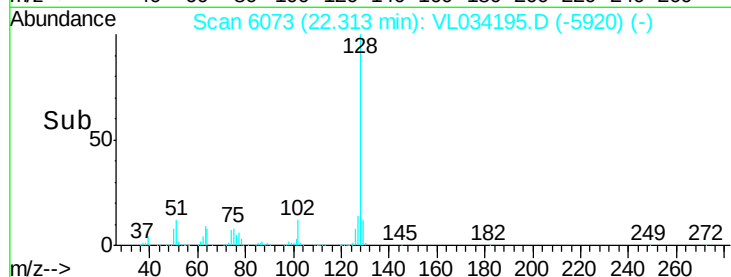
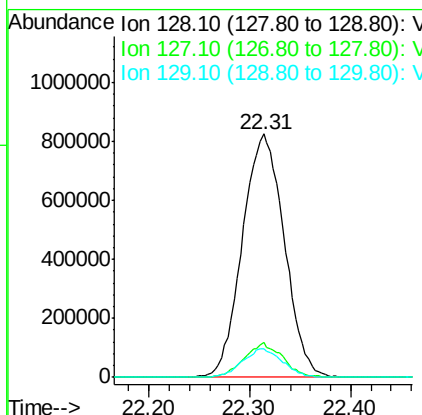
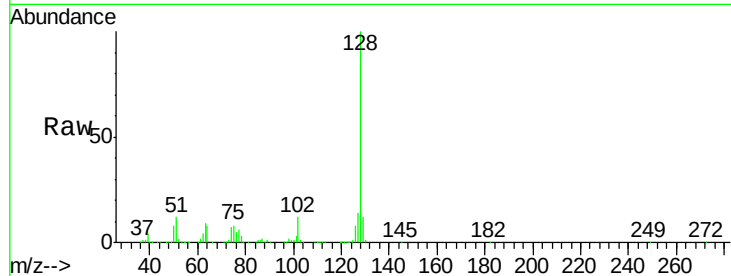
#79
Naphthalene
Concen: 8.268 ppbv
RT: 22.31 min Scan# 6073
Delta R.T. -0.01 min
Lab File: VL034195.D
Acq: 19 Sep 2019 10:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.2	11.1	16.7
129	11.9	10.2	15.4

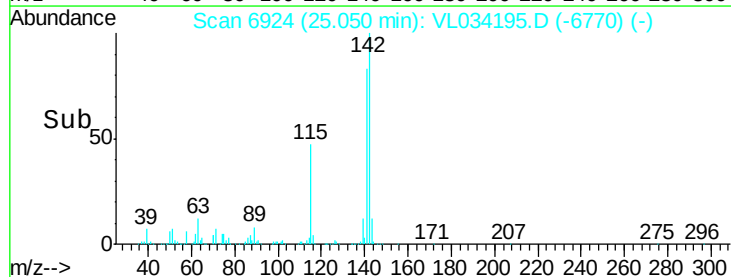
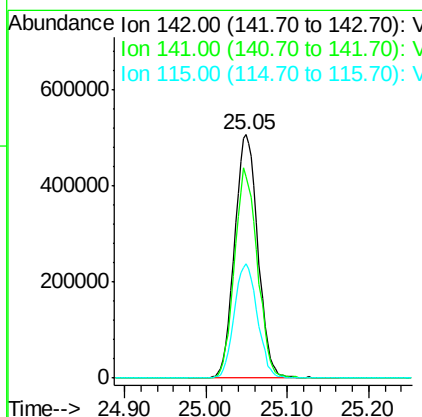
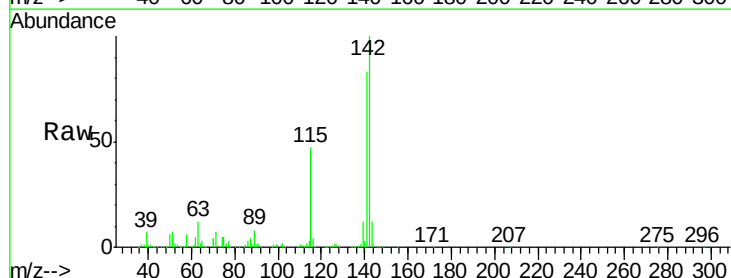
Manual Integrations
APPROVED

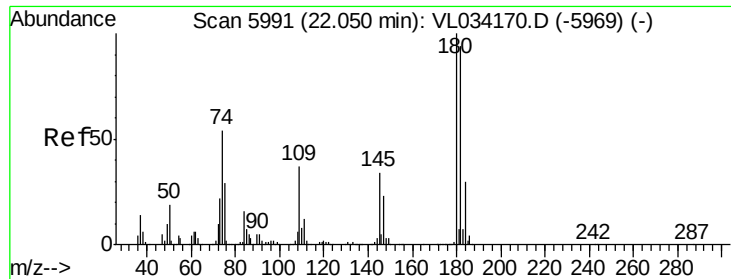
MMDadoda
9/20/2019 12:37:20 AM



#80
Naphthalene, 2-methyl-
Concen: 7.616 ppbv
RT: 25.05 min Scan# 6924
Delta R.T. -0.01 min
Lab File: VL034195.D
Acq: 19 Sep 2019 10:34

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.4	67.6	101.4
115	46.5	36.9	55.3





#81
 1,2,4-Trichlorobenzene
 Concen: 8.053 ppbv
 RT: 22.04 min Scan# 5988
 Delta R.T. -0.01 min
 Lab File: VL034195.D
 Acq: 19 Sep 2019 10:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.0	77.4	116.2
184	30.5	25.0	37.4

Manual Integrations
 APPROVED

MMDadoda
 9/20/2019 12:37:20 AM

